

# GOMOS Daily Report 12-JAN-2008

## Level 0 and Level 1 products

### SUMMARY

#### [1. General Info](#)

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

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

#### [3. Plot of Spectrometers and Photometers temperatures](#)

#### [4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

#### [5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

#### [6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

#### [7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

## [Level 2 products](#)

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

| Item                      | Value   |
|---------------------------|---|
| Time of report generation | 14JAN2008 11:33:18                            |
| Data source version       | GOMOS/5.00                                    |
| Start time of products    | QDS_YESTERDAY(/START)-1D (12JAN2008 00:00:00) |
| Stop time of products     | QDS_YESTERDAY(/STOP)-1D (13JAN2008 00:00:00)  |
| Store outputs in DB       | Yes   |
| Nb of level 1b prods      | 48  |
| Nb of prods with errors   | 0   |

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

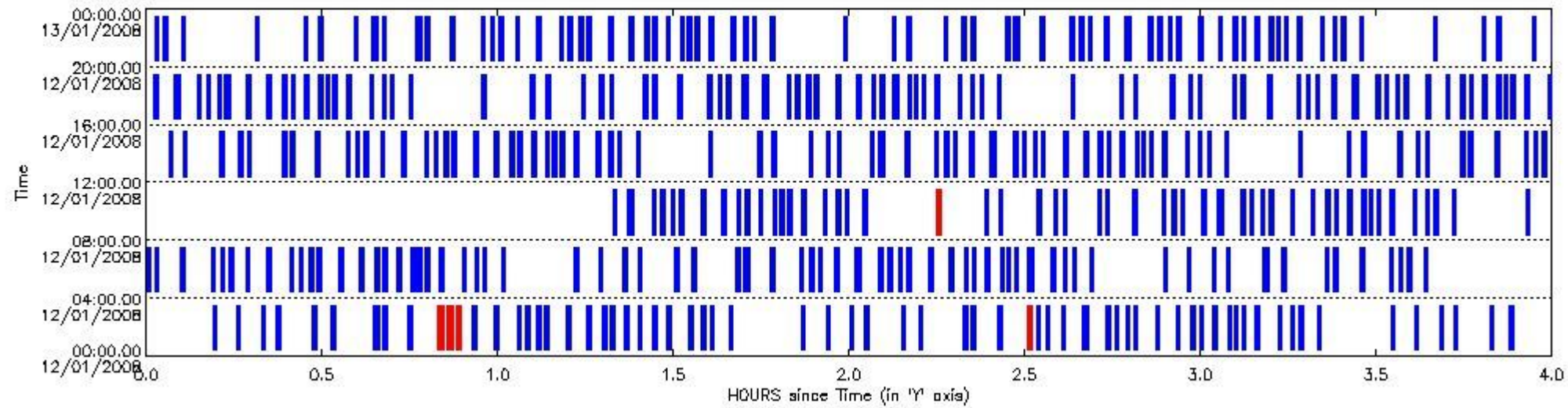
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

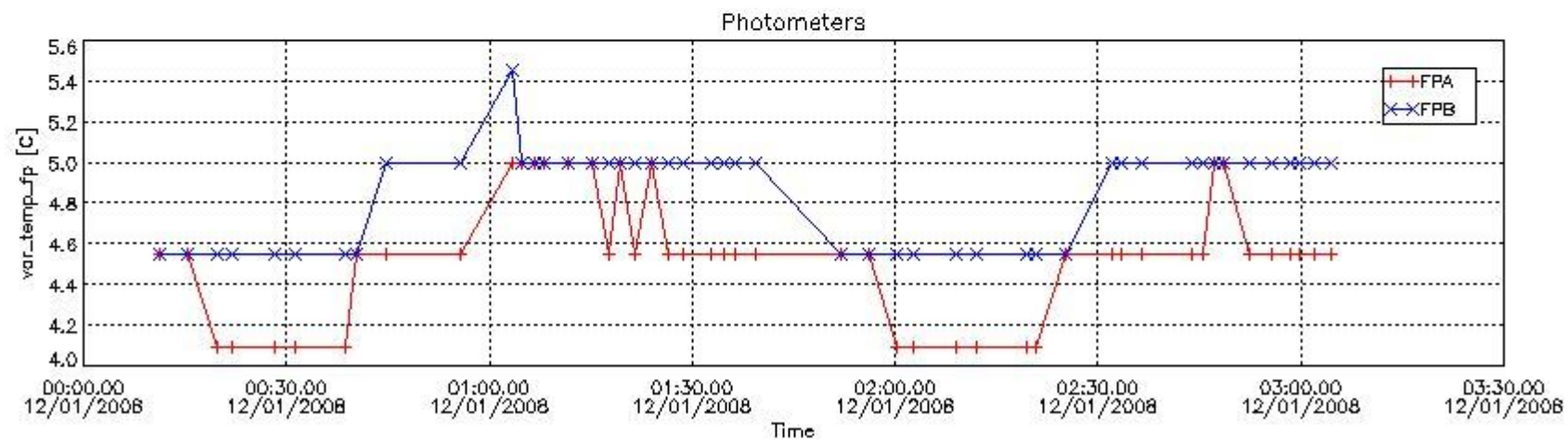
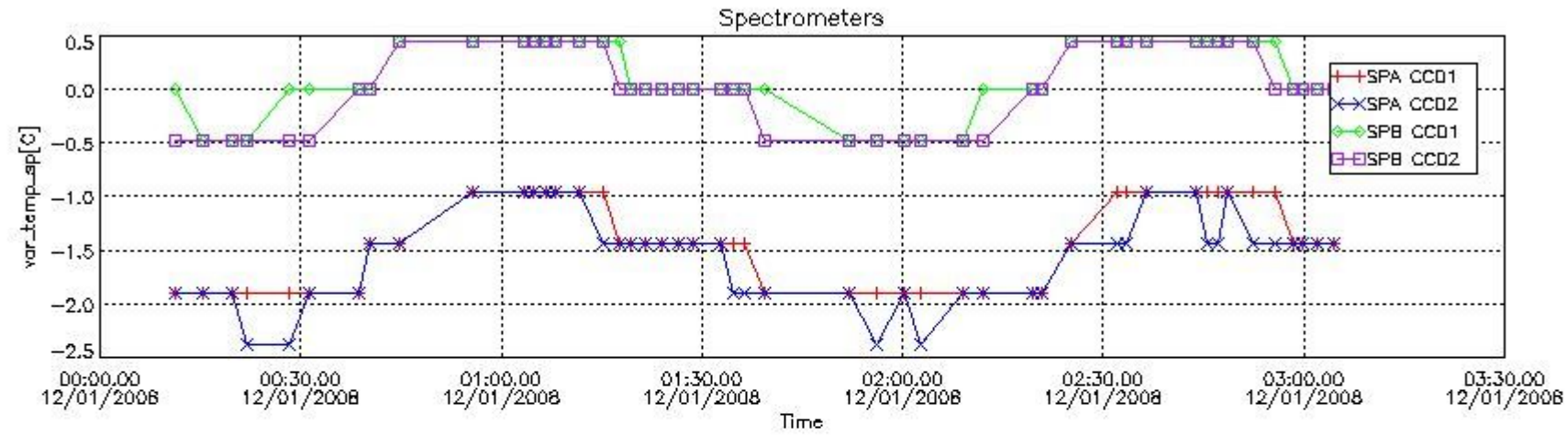
| UTC start time       | Star name | Star ID | Orbit |
|----------------------|-----------|---------|-------|
| 12-JAN-2008 00:49:47 | GamLup    | 131     | 30674 |
| 12-JAN-2008 00:51:25 | BetLup    | 109     | 30674 |
| 12-JAN-2008 00:52:56 | AlpLup    | 78      | 30674 |
| 12-JAN-2008 02:30:23 | GamLup    | 131     | 30675 |
| 12-JAN-2008 10:14:53 | 1AlpUMi   | 49      | 30680 |

### 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_1PNPDE20080112_001119_000000352065_00059_30674_3591.N1 | 12-JAN-2008 00:11:19 | Bright | 34.500   | 49      | 1Alp UMi  | 1.9900   | 6300.0    | 69      | 30674 | No          |
| 2  | GOM_TRA_1PNPDE20080112_001527_000000362065_00059_30674_3592.N1 | 12-JAN-2008 00:15:27 | Bright | 36.000   | 60      | 7Bet UMi  | 2.0810   | 3950.0    | 72      | 30674 | No          |
| 3  | GOM_TRA_1PNPDE20080112_001938_000000382065_00059_30674_3593.N1 | 12-JAN-2008 00:19:38 | Bright | 38.000   | 119     | 14Eta Dra | 2.7270   | 4700.0    | 76      | 30674 | No          |
| 4  | GOM_TRA_1PNPDE20080112_002205_000000522065_00059_30674_3594.N1 | 12-JAN-2008 00:22:05 | Bright | 52.000   | 130     | 23Bet Dra | 2.7990   | 5800.0    | 104     | 30674 | No          |
| 5  | GOM_TRA_1PNPDE20080112_002820_000000532065_00059_30674_3595.N1 | 12-JAN-2008 00:28:20 | Bright | 53.000   | 133     | 40Zet Her | 2.8070   | 6000.0    | 106     | 30674 | No          |
| 6  | GOM_TRA_1PNPDE20080112_003122_000000542065_00059_30674_3596.N1 | 12-JAN-2008 00:31:22 | Bright | 54.000   | 127     | 27Bet Her | 2.7810   | 4700.0    | 108     | 30674 | No          |

|    |  |                      |            |        |     |           |           |        |     |       |    |
|----|--|----------------------|------------|--------|-----|-----------|-----------|--------|-----|-------|----|
| 7  | GOM_TRA_1PNPDE20080112_003850_00000542065_00059_30674_3597.N1  | 12-JAN-2008 00:38:50 | Bright     | 54.000 | 120 | 1Del Oph  | 2.7340    | 3200.0 | 108 | 30674 | No |
| 8  | GOM_TRA_1PNPDE20080112_004016_00000522065_00059_30674_3598.N1  | 12-JAN-2008 00:40:16 | Bright     | 52.000 | 98  | 13Zet Oph | 2.5710    | 30000. | 104 | 30674 | No |
| 9  | GOM_TRA_1PNPDE20080112_004442_000000432065_00059_30674_3717.N1 | 12-JAN-2008 00:44:42 | Twilight   | 42.500 | 16  | 21Alp Sco | 1.0200    | 3000.0 | 85  | 30674 | No |
| 10 | GOM_TRA_1PNPDE20080112_005544_000000432065_00060_30675_3718.N1 | 12-JAN-2008 00:55:44 | Dark       | 42.500 | 4   | Alp1Cen   | -0.010000 | 5800.0 | 85  | 30675 | No |
| 11 | GOM_TRA_1PNPDE20080112_010318_000000392065_00060_30675_3719.N1 | 12-JAN-2008 01:03:18 | Dark       | 38.500 | 124 | The Car   | 2.7640    | 30000. | 77  | 30675 | No |
| 12 | GOM_TRA_1PNPDE20080112_010450_000000372065_00060_30675_3720.N1 | 12-JAN-2008 01:04:50 | Dark       | 37.000 | 29  | Bet Car   | 1.6720    | 10200. | 74  | 30675 | No |
| 13 | GOM_TRA_1PNPDE20080112_010637_000000392065_00060_30675_3721.N1 | 12-JAN-2008 01:06:37 | Dark       | 39.000 | 71  | lot Car   | 2.2460    | 7700.0 | 78  | 30675 | No |
| 14 | GOM_TRA_1PNPDE20080112_010758_000000452065_00060_30675_3722.N1 | 12-JAN-2008 01:07:58 | Dark       | 44.500 | 41  | Eps Car   | 1.8600    | 4100.0 | 89  | 30675 | No |
| 15 | GOM_TRA_1PNPDE20080112_011144_000000482065_00060_30675_3723.N1 | 12-JAN-2008 01:11:44 | Dark       | 47.500 | 2   | Alp Car   | -0.73600  | 7000.0 | 95  | 30675 | No |
| 16 | GOM_TRA_1PNPDE20080112_011512_000000442065_00060_30675_3724.N1 | 12-JAN-2008 01:15:12 | Straylight | 44.000 | 117 | Pi Pup    | 2.7060    | 3800.0 | 88  | 30675 | No |
| 17 | GOM_TRA_1PNPDE20080112_011748_000000432065_00060_30675_3725.N1 | 12-JAN-2008 01:17:48 | Straylight | 43.000 | 23  | 21Eps CMa | 1.5020    | 26000. | 86  | 30675 | No |
| 18 | GOM_TRA_1PNPDE20080112_011915_000000422065_00060_30675_3726.N1 | 12-JAN-2008 01:19:15 | Straylight | 41.500 | 179 | 24Omi2CMa | 3.0320    | 24000. | 83  | 30675 | No |
| 19 | GOM_TRA_1PNPDE20080112_012131_000000512065_00060_30675_3727.N1 | 12-JAN-2008 01:21:31 | Straylight | 51.000 | 1   | 9Alp CMa  | -1.4400   | 11000. | 102 | 30675 | No |
| 20 | GOM_TRA_1PNPDE20080112_012359_000000402065_00060_30675_3728.N1 | 12-JAN-2008 01:23:59 | Straylight | 40.000 | 56  | 53Kap Ori | 2.0650    | 30000. | 80  | 30675 | No |
| 21 | GOM_TRA_1PNPDE20080112_012627_000000392065_00060_30675_3729.N1 | 12-JAN-2008 01:26:27 | Twilight   | 38.500 | 30  | 46Eps Ori | 1.6940    | 30000. | 77  | 30675 | No |
| 22 | GOM_TRA_1PNPDE20080112_012844_000000492065_00060_30675_3730.N1 | 12-JAN-2008 01:28:44 | Twilight   | 49.000 | 14  | 58Alp Ori | 0.87000   | 3000.0 | 98  | 30675 | No |
| 23 | GOM_TRA_1PNPDE20080112_013240_000000382065_00060_30675_3731.N1 | 12-JAN-2008 01:32:40 | Bright     | 38.000 | 176 | 23Zet Tau | 3.0200    | 22000. | 76  | 30675 | No |
| 24 | GOM_TRA_1PNPDE20080112_013449_000000372065_00060_30675_3732.N1 | 12-JAN-2008 01:34:49 | Bright     | 36.500 | 28  | 12Bet Tau | 1.6500    | 15200. | 73  | 30675 | No |
| 25 | GOM_TRA_1PNPDE20080112_013618_000000382065_00060_30675_3733.N1 | 12-JAN-2008 01:36:18 | Bright     | 38.000 | 114 | 3lot Aur  | 2.6930    | 4600.0 | 76  | 30675 | No |
| 26 | GOM_TRA_1PNPDE20080112_013925_000000372065_00060_30675_3734.N1 | 12-JAN-2008 01:39:25 | Bright     | 37.000 | 42  | 34Bet Aur | 1.9000    | 10200. | 74  | 30675 | No |
| 27 | GOM_TRA_1PNPDE20080112_015155_000000342065_00060_30675_3735.N1 | 12-JAN-2008 01:51:55 | Bright     | 34.000 | 49  | 1Alp UMi  | 1.9900    | 6300.0 | 68  | 30675 | No |
| 28 | GOM_TRA_1PNPDE20080112_015602_000000392065_00060_30675_3736.N1 | 12-JAN-2008 01:56:02 | Bright     | 38.500 | 60  | 7Bet UMi  | 2.0810    | 3950.0 | 77  | 30675 | No |
| 29 | GOM_TRA_1PNPDE20080112_020014_000000362065_00060_30675_3737.N1 | 12-JAN-2008 02:00:14 | Bright     | 36.000 | 119 | 14Eta Dra | 2.7270    | 4700.0 | 72  | 30675 | No |
| 30 | GOM_TRA_1PNPDE20080112_020241_000000362065_00060_30675_3738.N1 | 12-JAN-2008 02:02:41 | Bright     | 36.000 | 130 | 23Bet Dra | 2.7990    | 5800.0 | 72  | 30675 | No |
| 31 | GOM_TRA_1PNPDE20080112_020856_000000352065_00060_30675_3739.N1 | 12-JAN-2008 02:08:56 | Bright     | 34.500 | 133 | 40Zet Her | 2.8070    | 6000.0 | 69  | 30675 | No |
| 32 | GOM_TRA_1PNPDE20080112_021158_000000352065_00060_30675_3740.N1 | 12-JAN-2008 02:11:58 | Bright     | 35.000 | 127 | 27Bet Her | 2.7810    | 4700.0 | 70  | 30675 | No |
| 33 | GOM_TRA_1PNPDE20080112_021926_000000542065_00060_30675_3921.N1 | 12-JAN-2008 02:19:26 | Bright     | 54.000 | 120 | 1Del Oph  | 2.7340    | 3200.0 | 108 | 30675 | No |
| 34 | GOM_TRA_1PNPDE20080112_022052_000000522065_00060_30675_3922.N1 | 12-JAN-2008 02:20:52 | Bright     | 51.500 | 98  | 13Zet Oph | 2.5710    | 30000. | 103 | 30675 | No |
| 35 | GOM_TRA_1PNPDE20080112_022518_000000472065_00060_30675_3923.N1 | 12-JAN-2008 02:25:18 | Twilight   | 46.500 | 16  | 21Alp Sco | 1.0200    | 3000.0 | 93  | 30675 | No |
| 36 | GOM_TRA_1PNPDE20080112_023203_000000402065_00060_30675_3924.N1 | 12-JAN-2008 02:32:03 | Dark       | 39.500 | 109 | Bet Lup   | 2.6770    | 26000. | 79  | 30675 | No |
| 37 | GOM_TRA_1PNPDE20080112_023334_000000402065_00060_30675_3925.N1 | 12-JAN-2008 02:33:34 | Dark       | 40.000 | 78  | Alp Lup   | 2.3040    | 28000. | 80  | 30675 | No |
| 38 | GOM_TRA_1PNPDE20080112_023620_000000402065_00061_30676_3926.N1 | 12-JAN-2008 02:36:20 | Dark       | 40.000 | 4   | Alp1Cen   | -0.010000 | 5800.0 | 80  | 30676 | No |
| 39 | GOM_TRA_1PNPDE20080112_024354_000000392065_00061_30676_3927.N1 | 12-JAN-2008 02:43:54 | Dark       | 38.500 | 124 | The Car   | 2.7640    | 30000. | 77  | 30676 | No |
| 40 | GOM_TRA_1PNPDE20080112_024526_000000382065_00061_30676_3928.N1 | 12-JAN-2008 02:45:26 | Dark       | 38.000 | 29  | Bet Car   | 1.6720    | 10200. | 76  | 30676 | No |
| 41 | GOM_TRA_1PNPDE20080112_024713_000000402065_00061_30676_3929.N1 | 12-JAN-2008 02:47:13 | Dark       | 39.500 | 71  | lot Car   | 2.2460    | 7700.0 | 79  | 30676 | No |
| 42 | GOM_TRA_1PNPDE20080112_024834_000000412065_00061_30676_3930.N1 | 12-JAN-2008 02:48:34 | Dark       | 41.000 | 41  | Eps Car   | 1.8600    | 4100.0 | 82  | 30676 | No |
| 43 | GOM_TRA_1PNPDE20080112_025220_000000432065_00061_30676_3931.N1 | 12-JAN-2008 02:52:20 | Dark       | 43.000 | 2   | Alp Car   | -0.73600  | 7000.0 | 86  | 30676 | No |
| 44 | GOM_TRA_1PNPDE20080112_025548_000000432065_00061_30676_3932.N1 | 12-JAN-2008 02:55:48 | Straylight | 42.500 | 117 | Pi Pup    | 2.7060    | 3800.0 | 85  | 30676 | No |
| 45 | GOM_TRA_1PNPDE20080112_025824_000000452065_00061_30676_3933.N1 | 12-JAN-2008 02:58:24 | Straylight | 44.500 | 23  | 21Eps CMa | 1.5020    | 26000. | 89  | 30676 | No |
| 46 | GOM_TRA_1PNPDE20080112_025951_000000422065_00061_30676_3934.N1 | 12-JAN-2008 02:59:51 | Straylight | 41.500 | 179 | 24Omi2CMa | 3.0320    | 24000. | 83  | 30676 | No |
| 47 | GOM_TRA_1PNPDE20080112_030207_000000472065_00061_30676_3935.N1 | 12-JAN-2008 03:02:07 | Straylight | 47.000 | 1   | 9Alp CMa  | -1.4400   | 11000. | 94  | 30676 | No |
| 48 | GOM_TRA_1PNPDE20080112_030436_000000412065_00061_30676_3936.N1 | 12-JAN-2008 03:04:36 | Straylight | 41.000 | 56  | 53Kap Ori | 2.0650    | 30000. | 82  | 30676 | No |

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



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

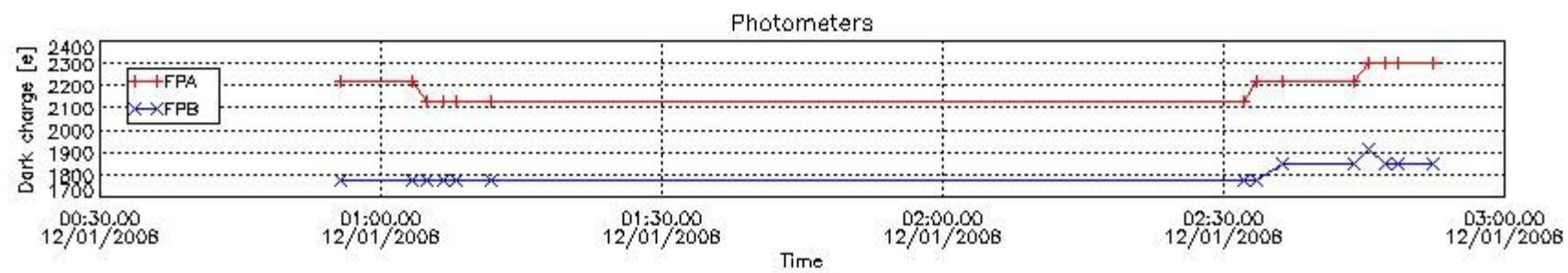
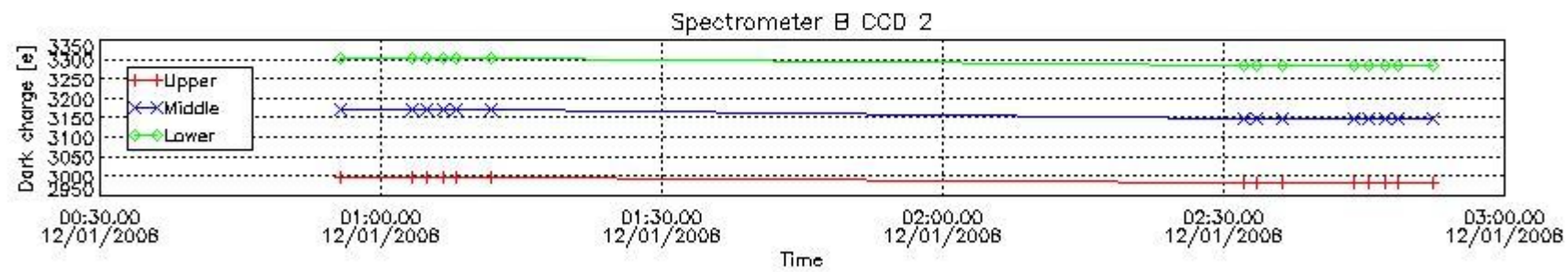
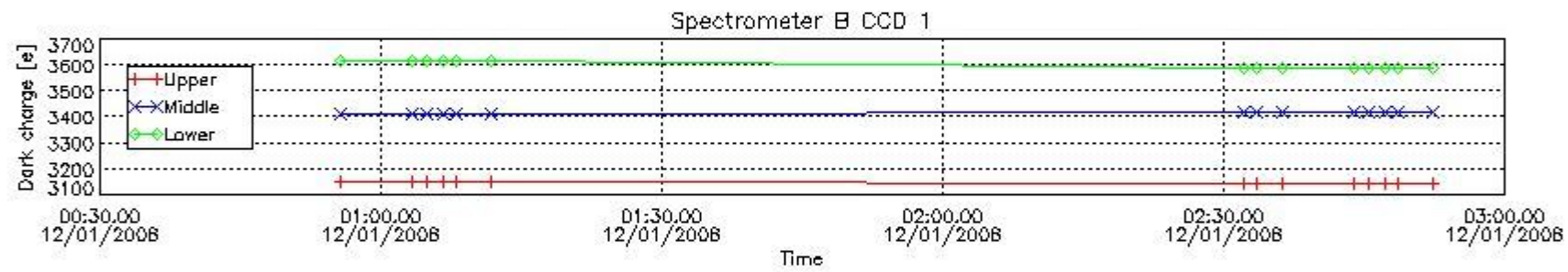
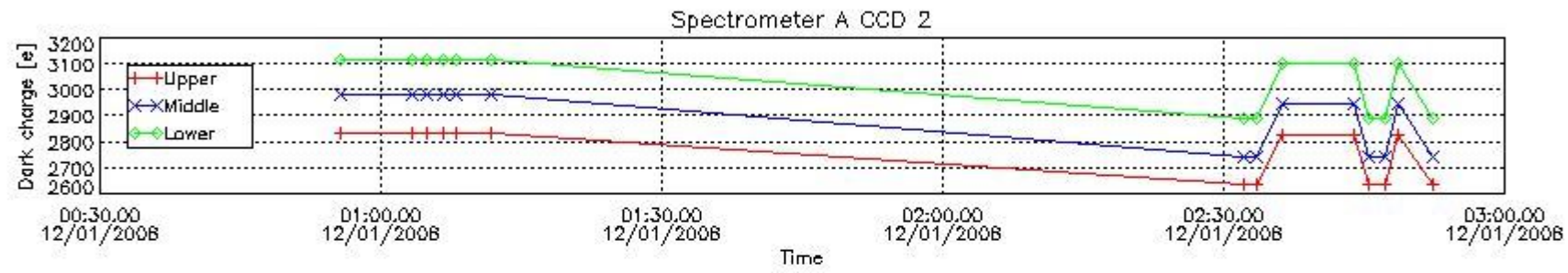
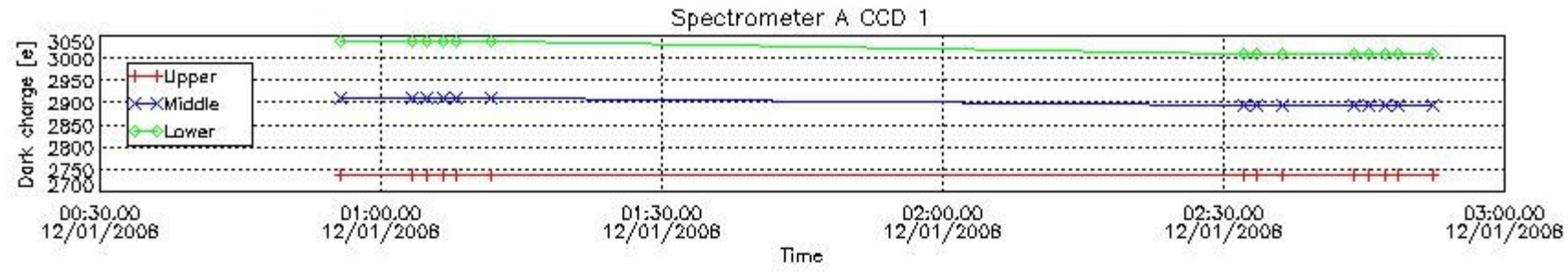
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 All products used the DSA observation for the DC computation

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





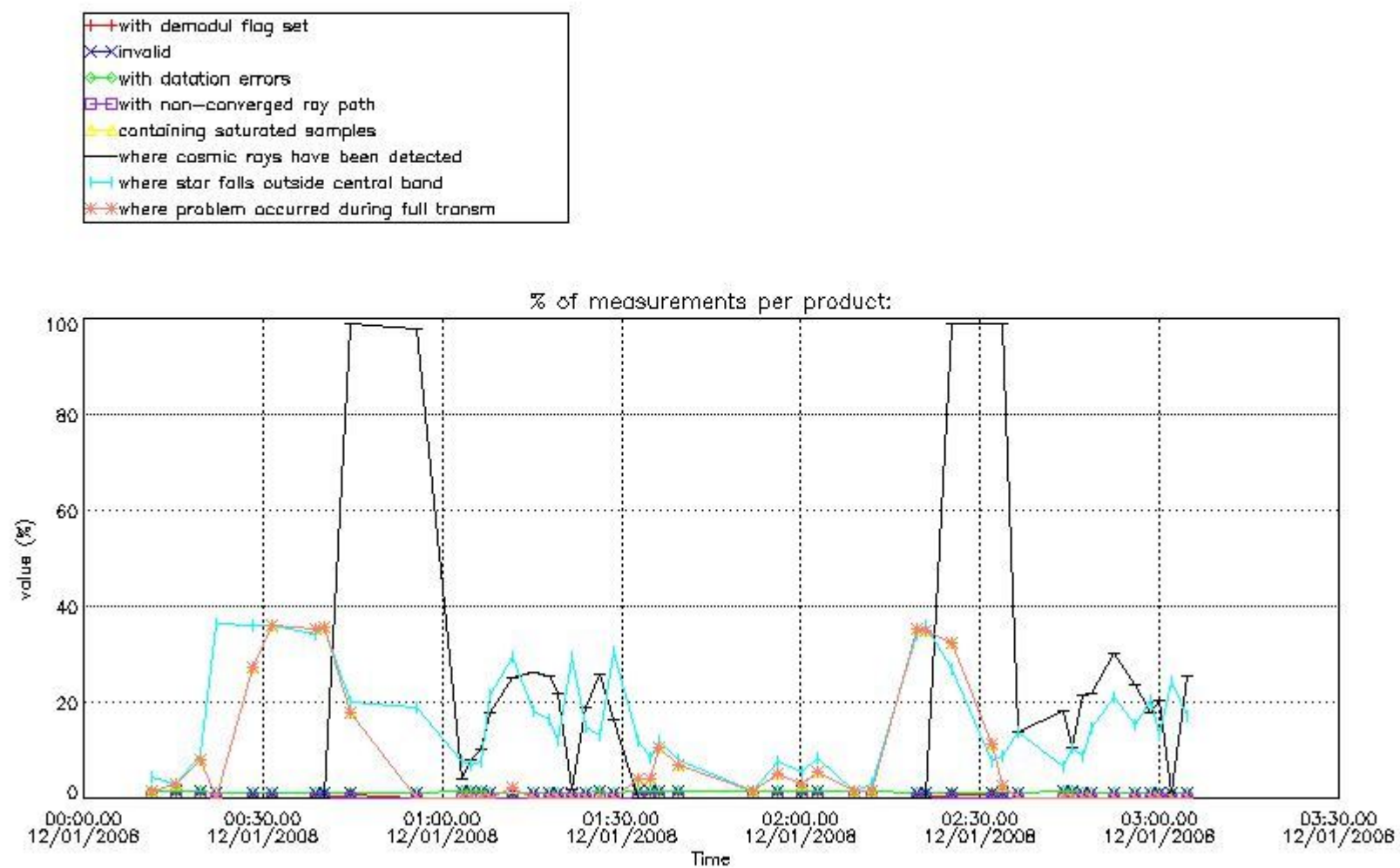
## 5. Demodulation flag and quality information monitoring

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.

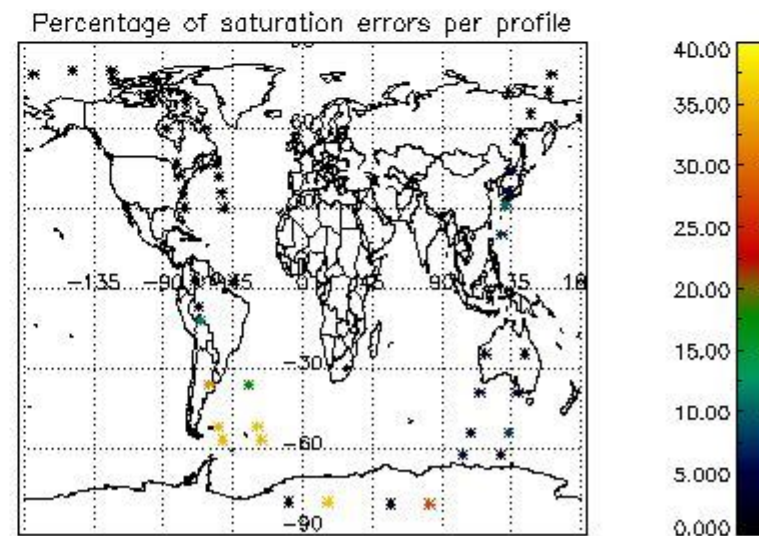
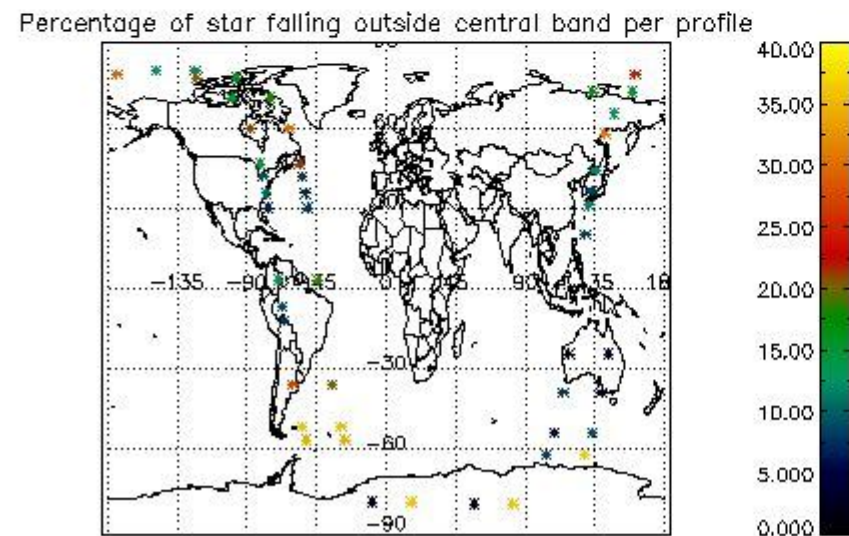
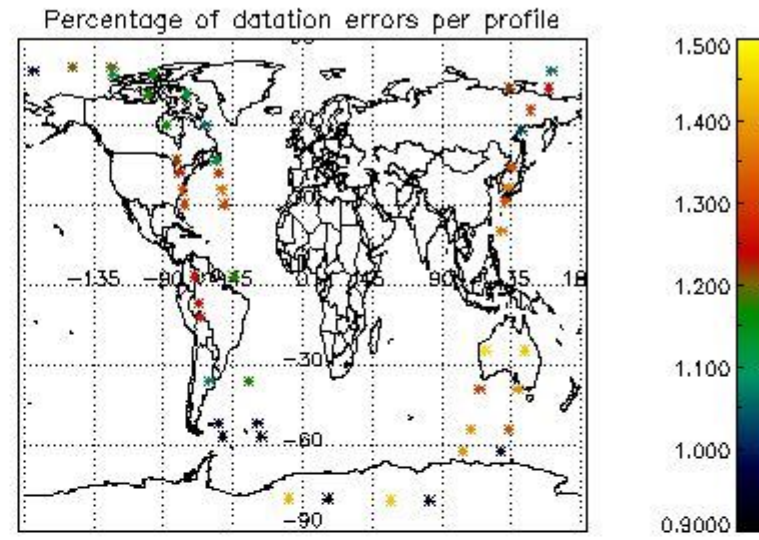
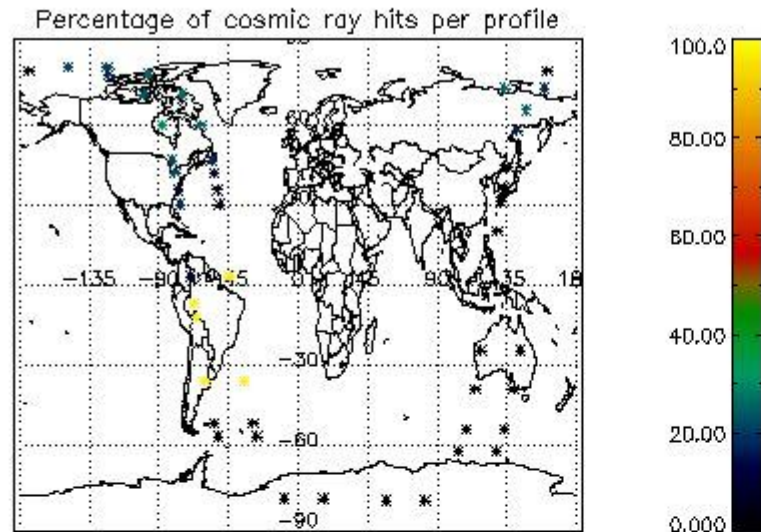
### 5.1 Percentage of products during reporting period with:

|   |           |
|---|-----------|
| At least one measurement with demodulation flag set:  | 25.0000 % |
| 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)

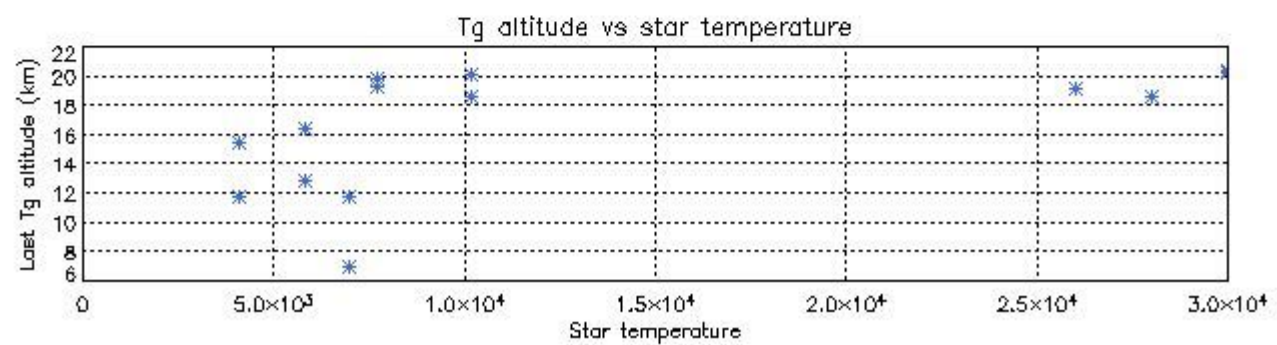
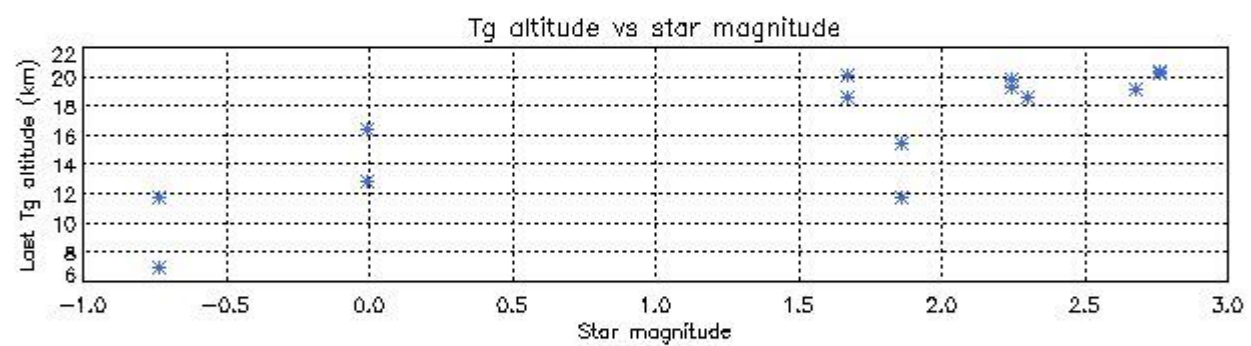
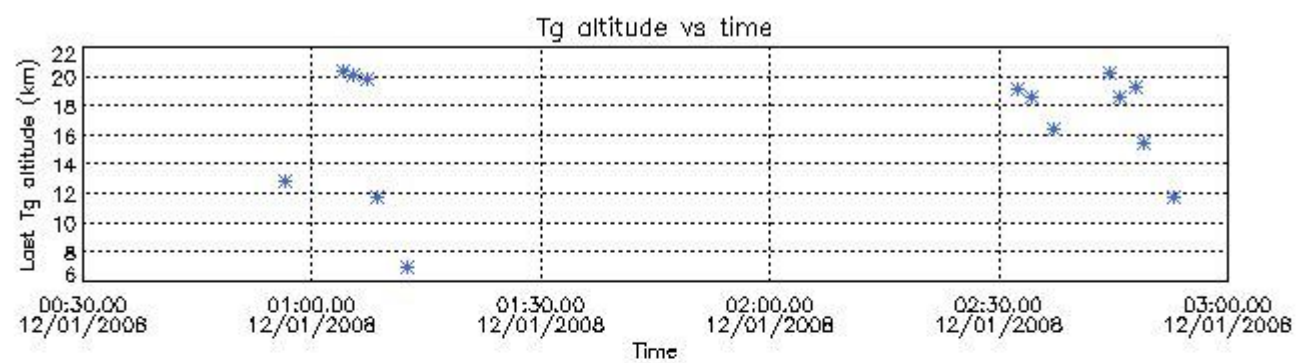
### 6.1 Statistics on tangent altitude lost:

| Statistics      | DARK   | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean:           | 16.512 | 15.104 | NaN      |
| St. deviation:  | 4.1766 | 8.5440 | NaN      |
| Maximum:        | 20.307 | 24.550 | NaN      |
| Minimum:        | 6.9700 | 3.4483 | NaN      |
| Number of data: | 14.000 | 20.000 | NaN      |

### 6.2 Plot for DARK limb products



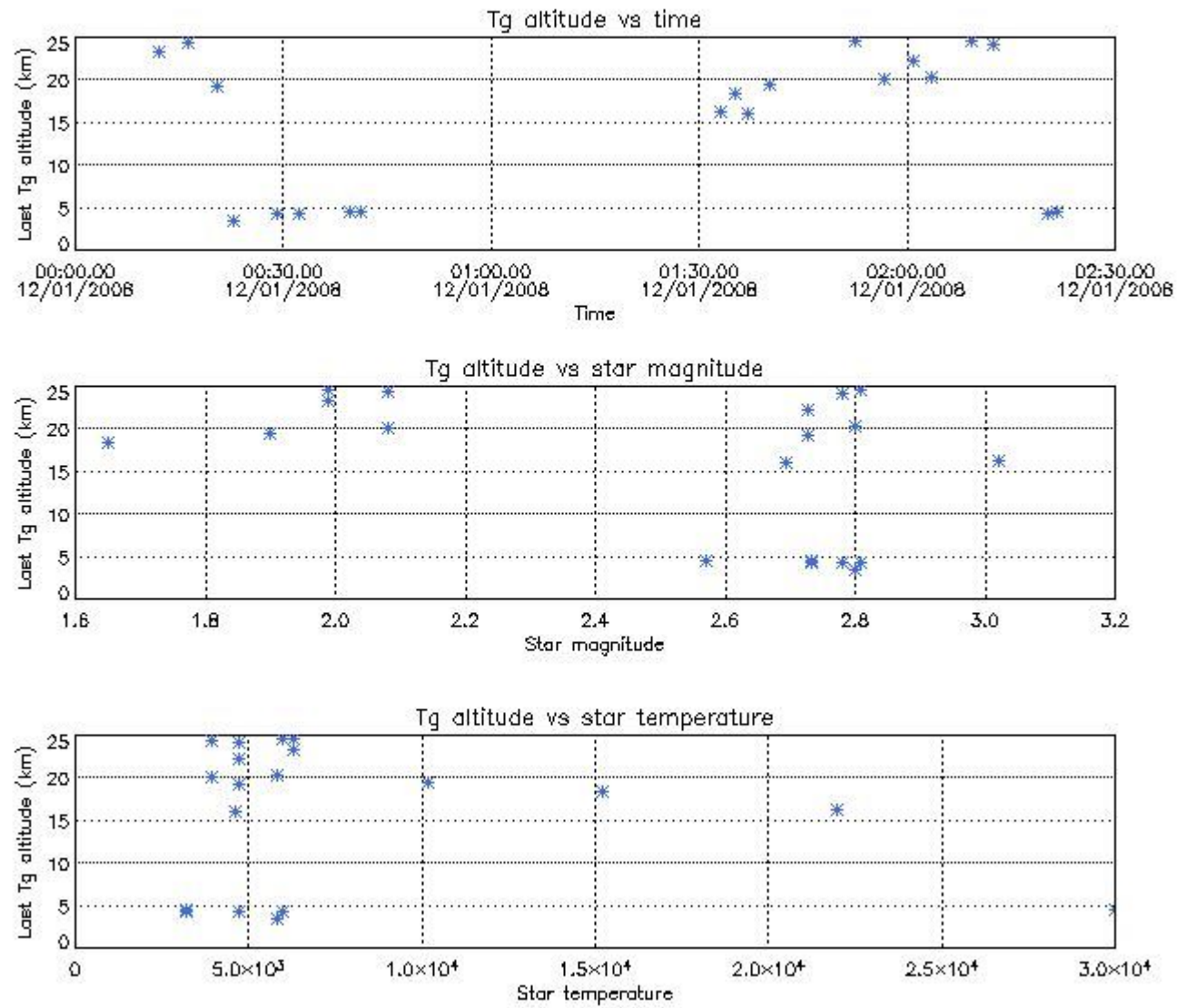
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

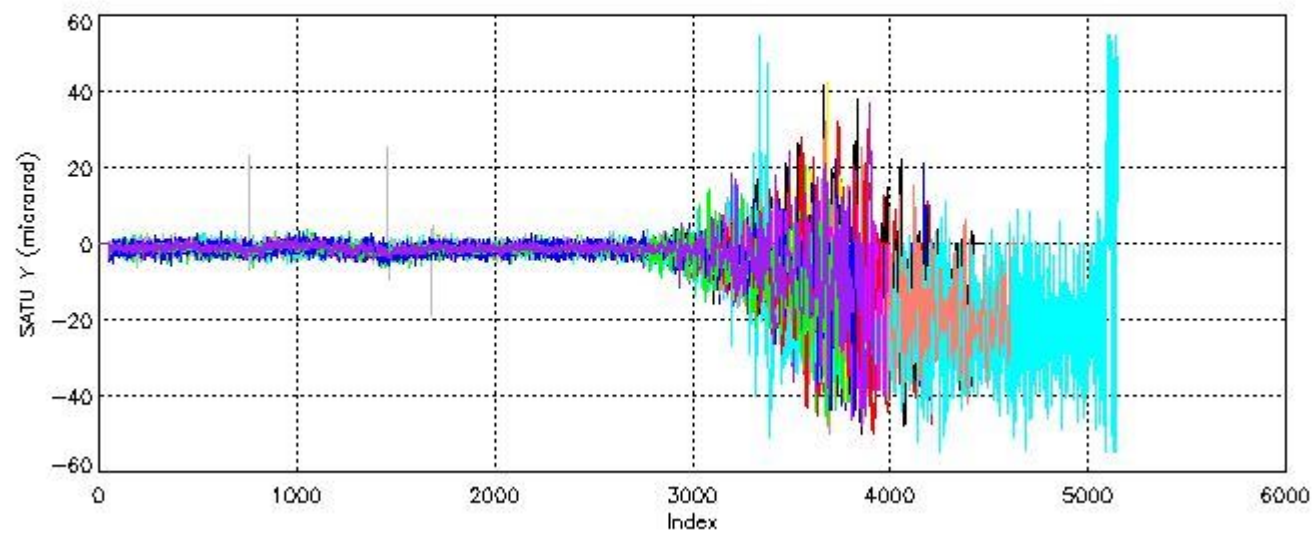
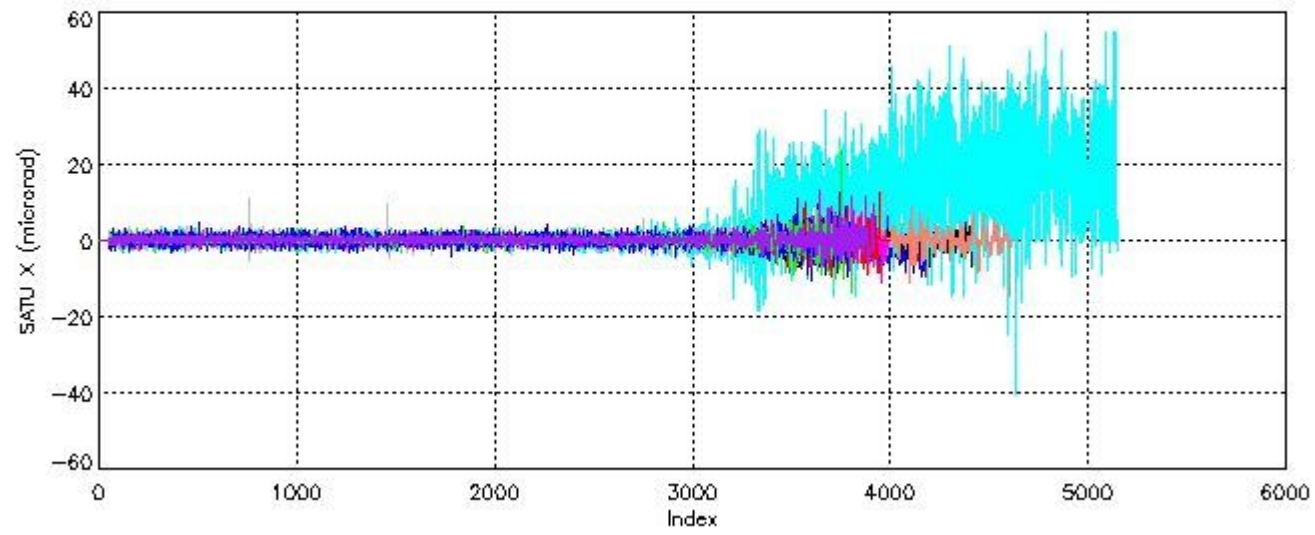


## 7. Star Acquisition and Tracking Unit (SATU)

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:          | 0.16543    | -1.3352    | 0.047541   | -1.1644    |
| St. deviation: | 0.52428    | 0.83449    | 0.69216    | 0.98690    |
| Maximum:       | 11.300     | 23.000     | 4.7000     | 3.7000     |
| Minimum:       | -5.4000    | -6.9000    | -4.2000    | -6.4000    |

|                 |        |        |        |        |
|-----------------|--------|--------|--------|--------|
| Number of data: | 12300. | 12300. | 16500. | 16500. |
|-----------------|--------|--------|--------|--------|

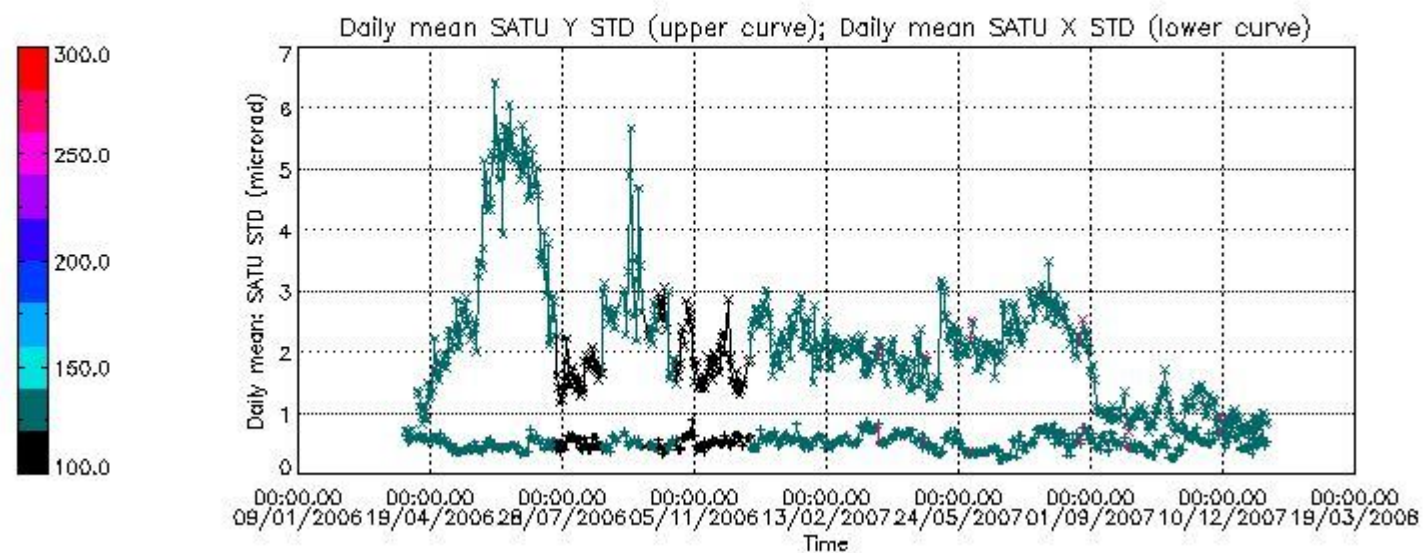
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

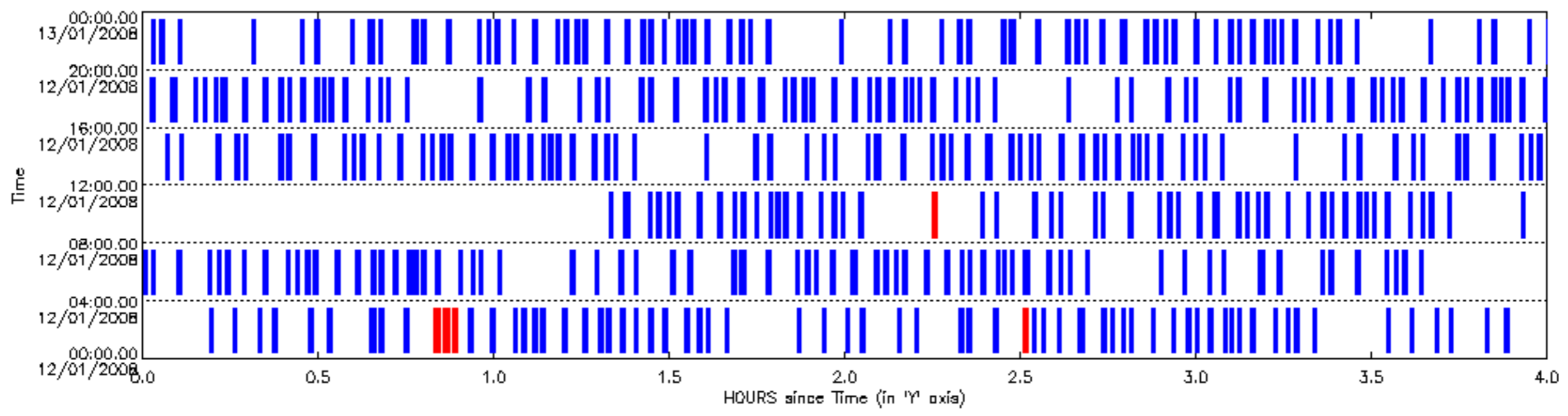


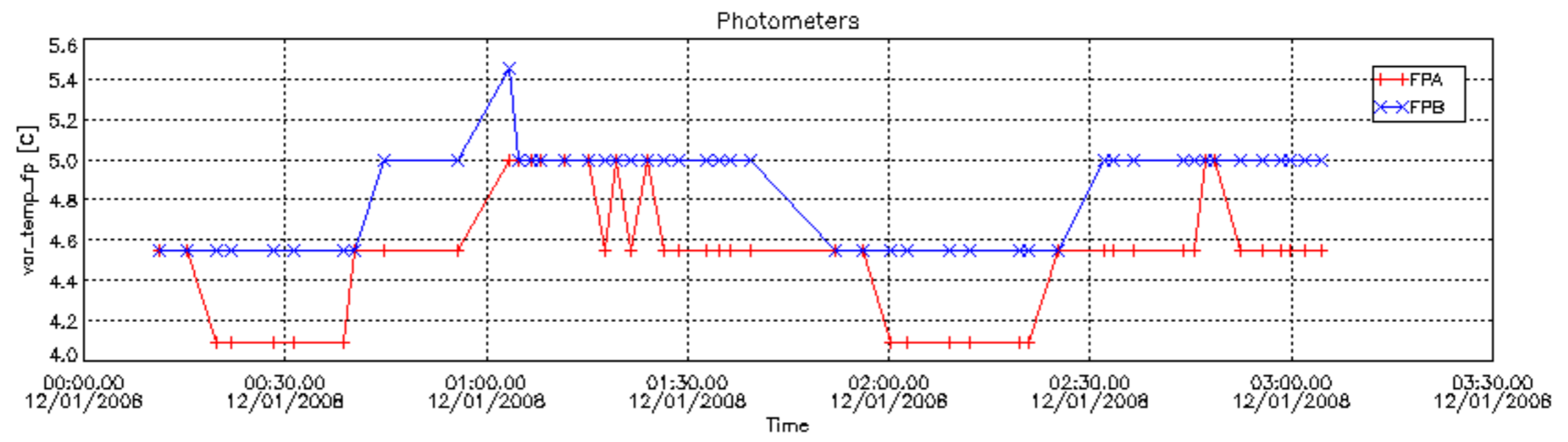
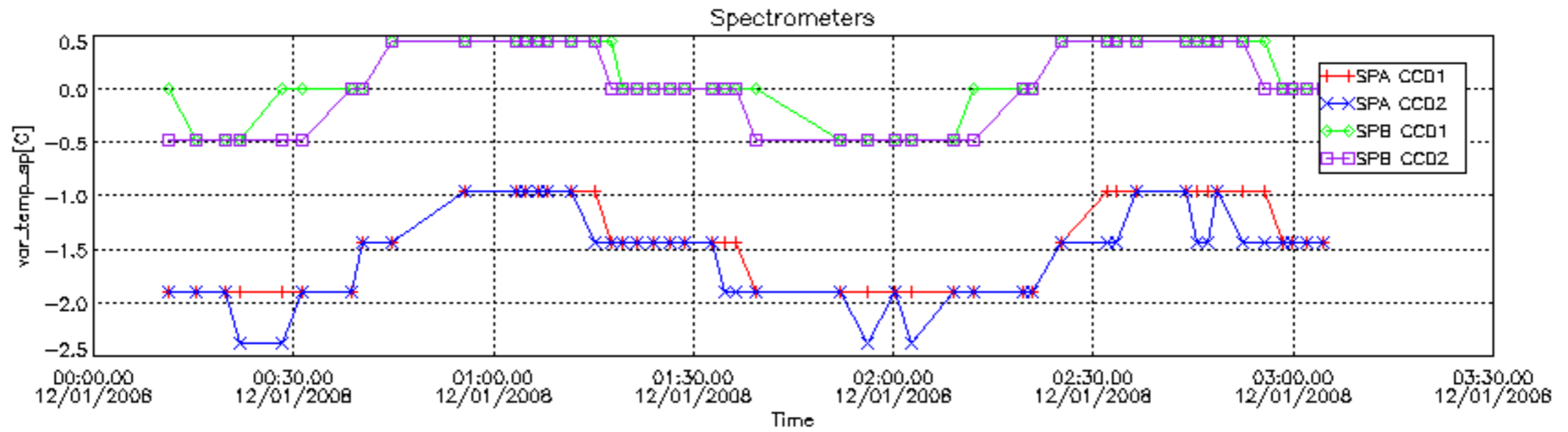
### 8. Auxiliary Data Files used for the production reported in section 2.4

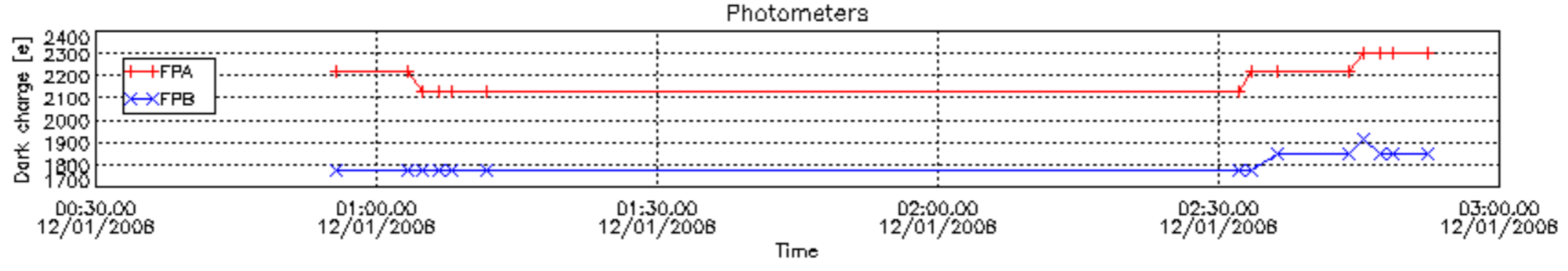
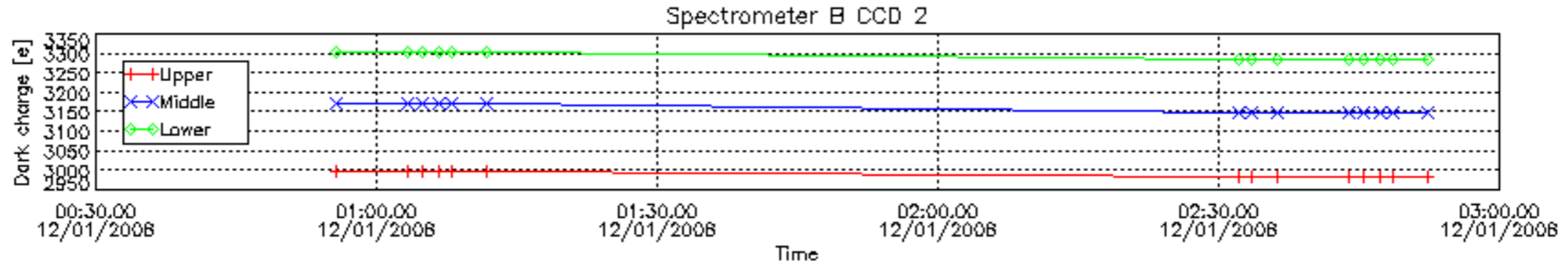
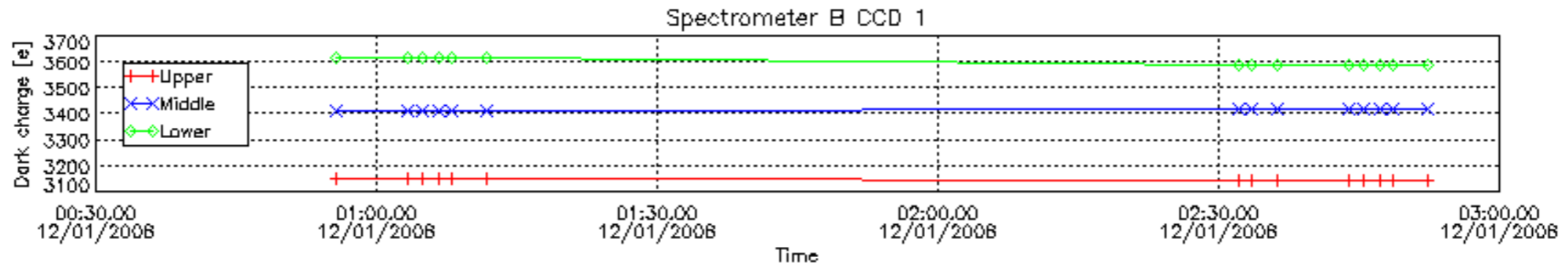
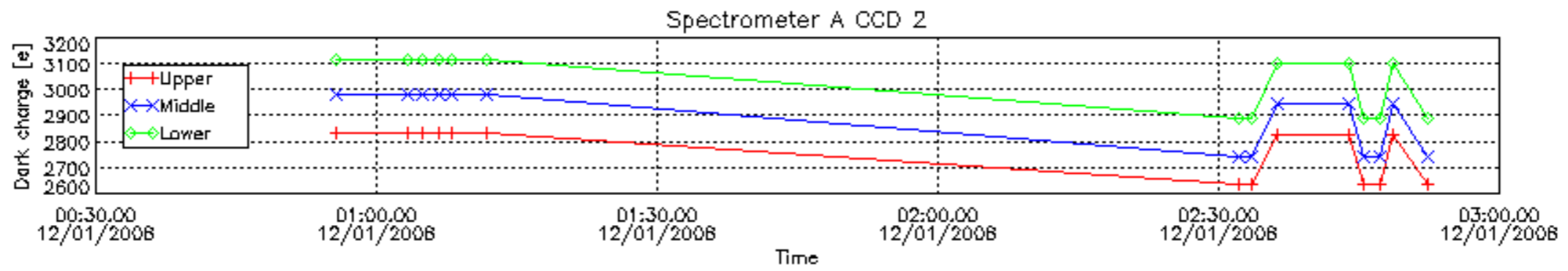
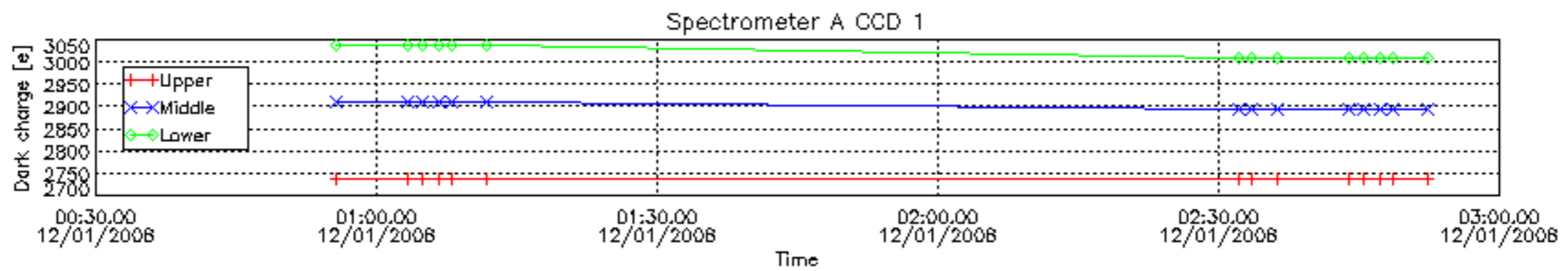
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

| Type                      | Auxiliary Filename   | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000  | 1                  | 12-JAN-2008 00:11:19    |
| CALIBRATION_DATABASE      | GOM_CAL_AXVIEC20080109_125406_20080107_000000_20100101_000000  | 1                  | 12-JAN-2008 00:11:19    |
| LEVEL-1B_PROC_CONFIG      | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000  | 1                  | 12-JAN-2008 00:11:19    |
| STAR_CATALOGUE            | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000  | 1                  | 12-JAN-2008 00:11:19    |
| STELLAR_SPECTRA_DATABANK  | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000  | 1                  | 12-JAN-2008 00:11:19    |
| ECMWF_FILE                | AUX_ECF_AXNECM20080111_073112_20080111_210000_20080112_090000  | 1                  | 12-JAN-2008 00:11:19    |
| OPTIONAL_ECMWF_FILE       | MISSING  | 1                  | 12-JAN-2008 00:11:19    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20080111_211821_000057382065_00057_30672_4931.N1 | 1                  | 12-JAN-2008 00:11:19    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20080112_004015_000054192065_00059_30674_5036.N1 | 9                  | 12-JAN-2008 00:44:42    |

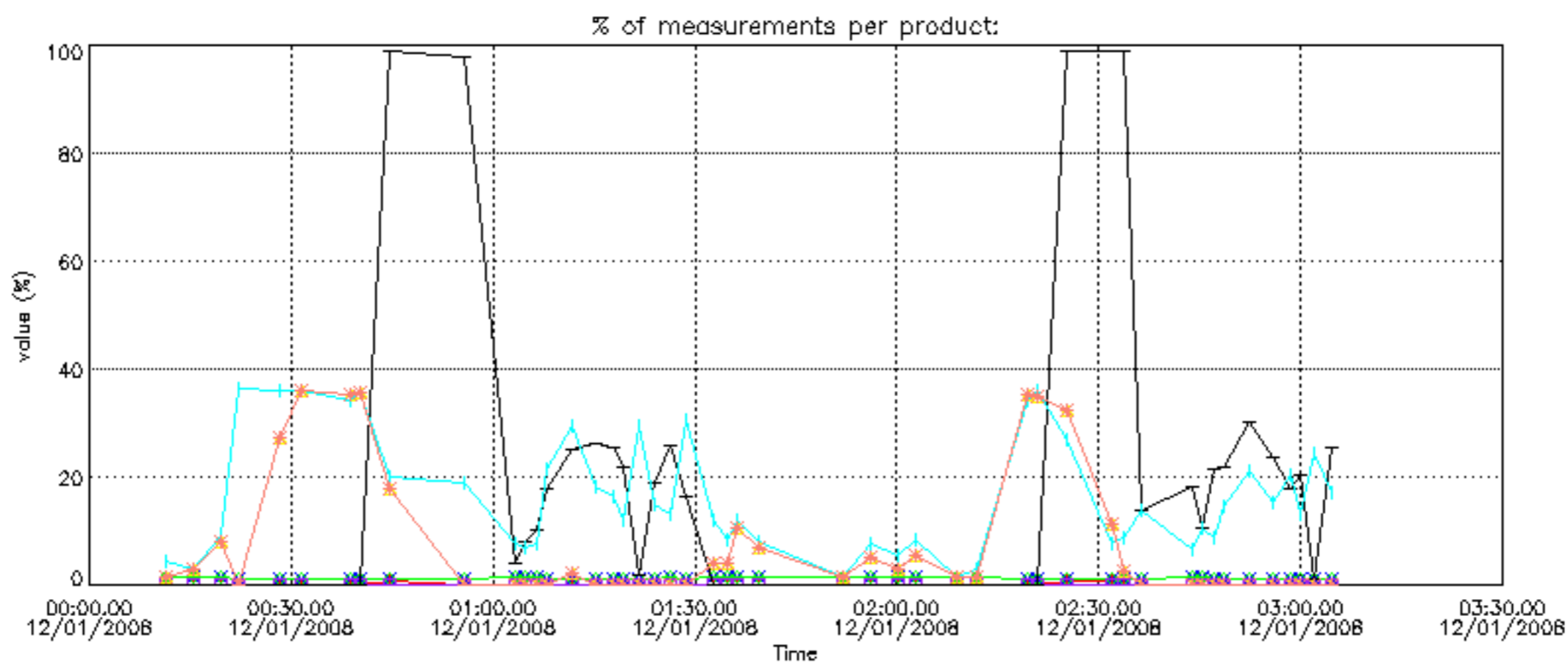




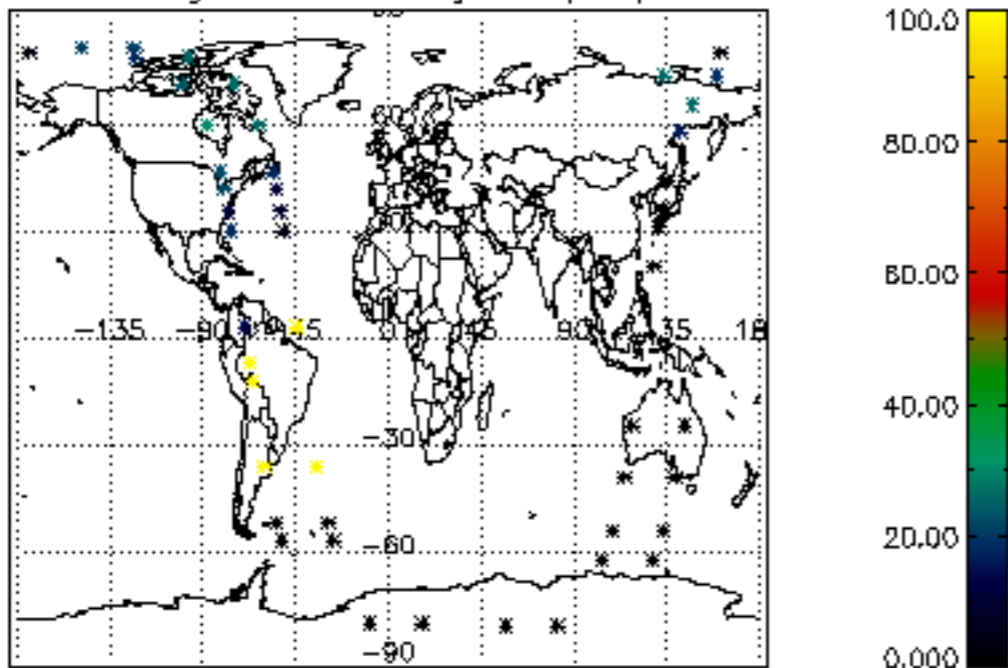




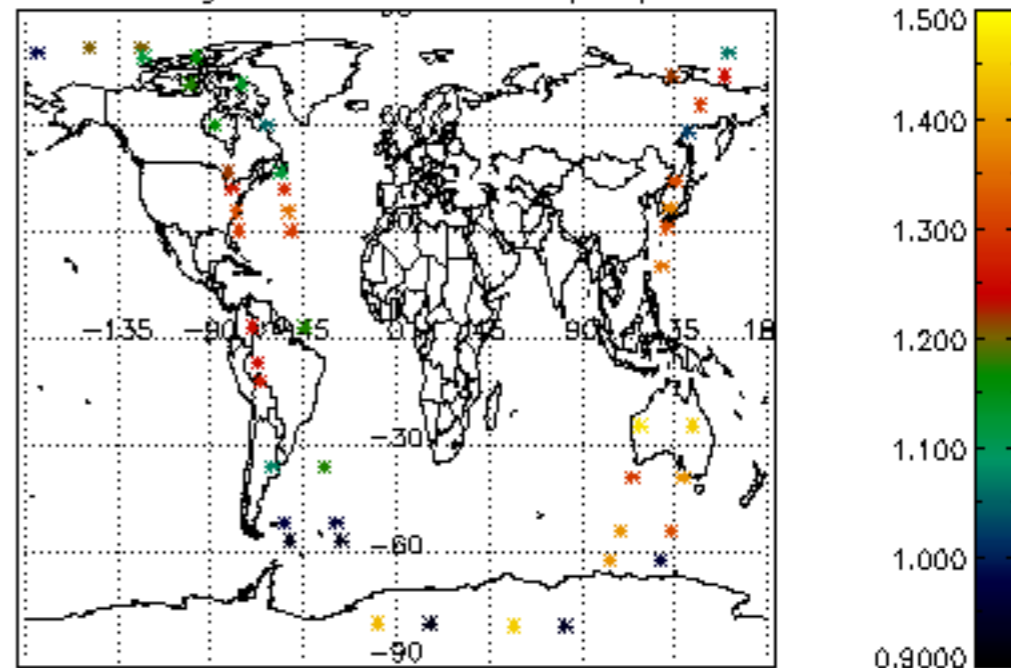




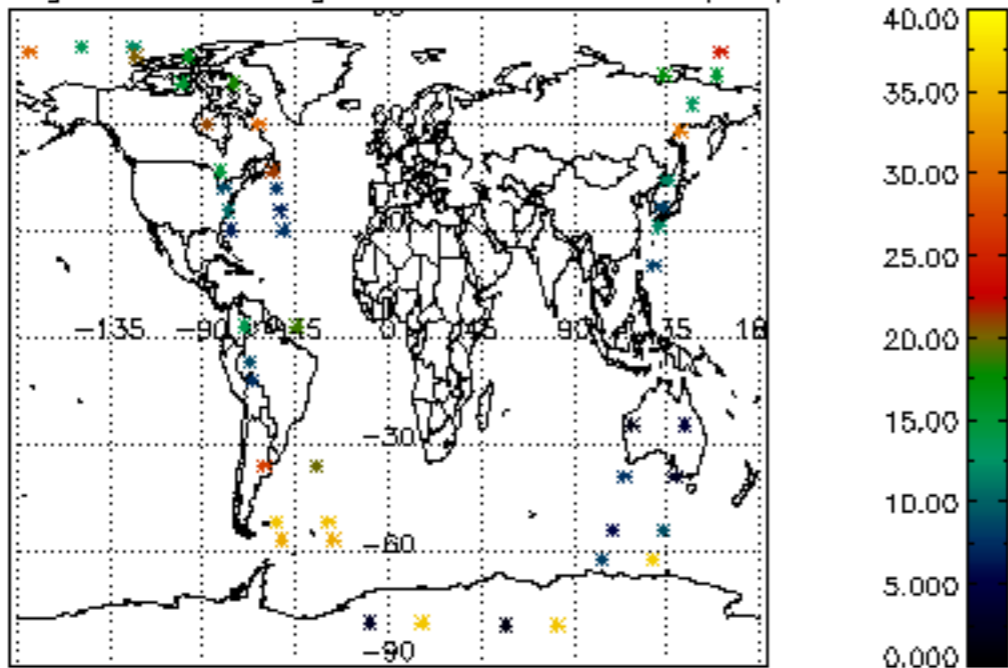
Percentage of cosmic ray hits per profile



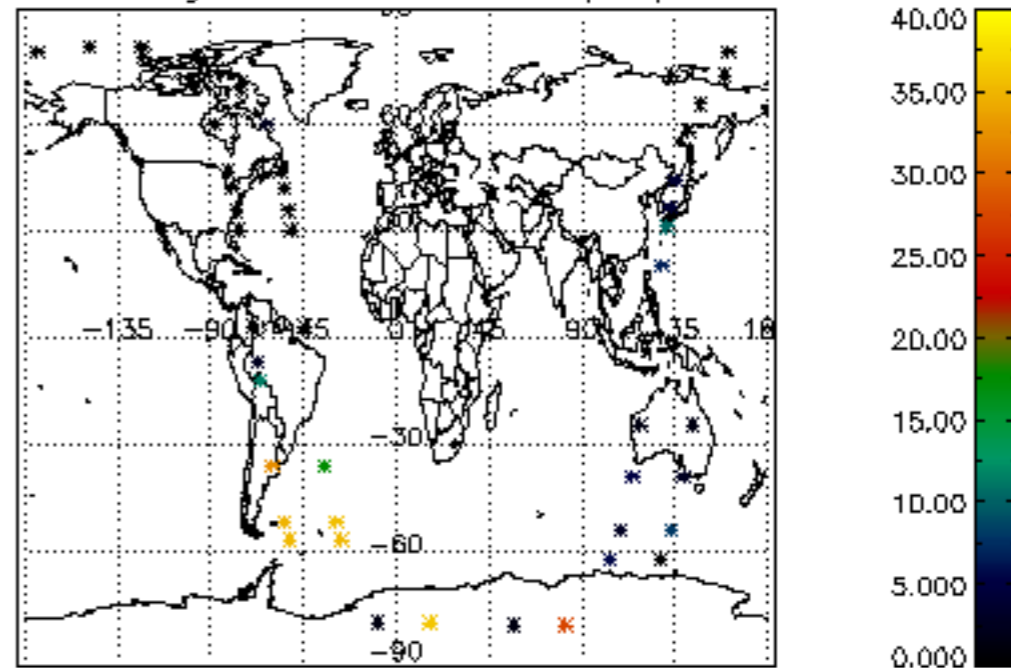
Percentage of datation errors per profile



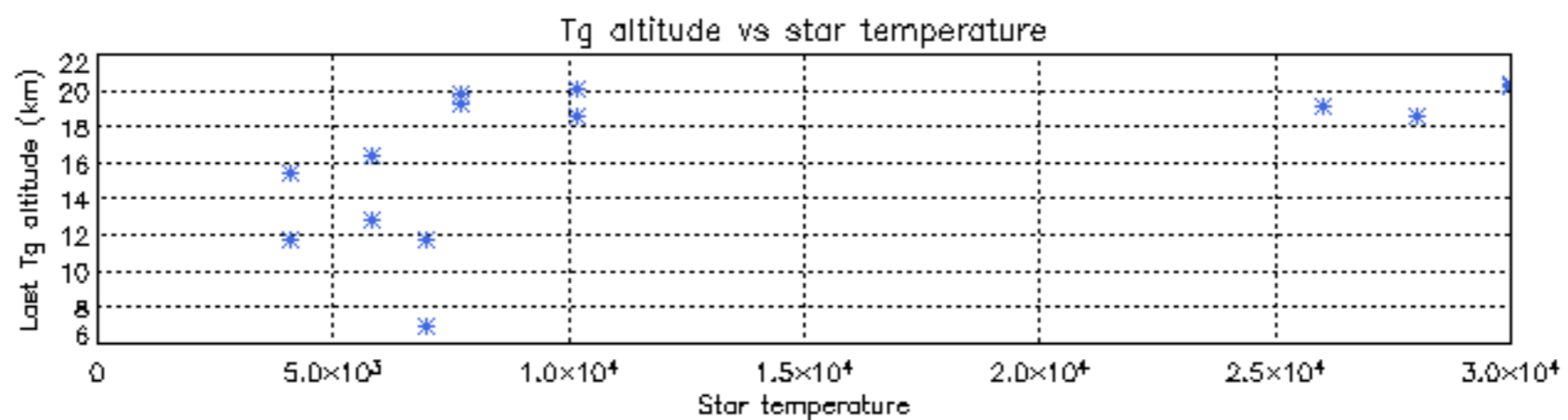
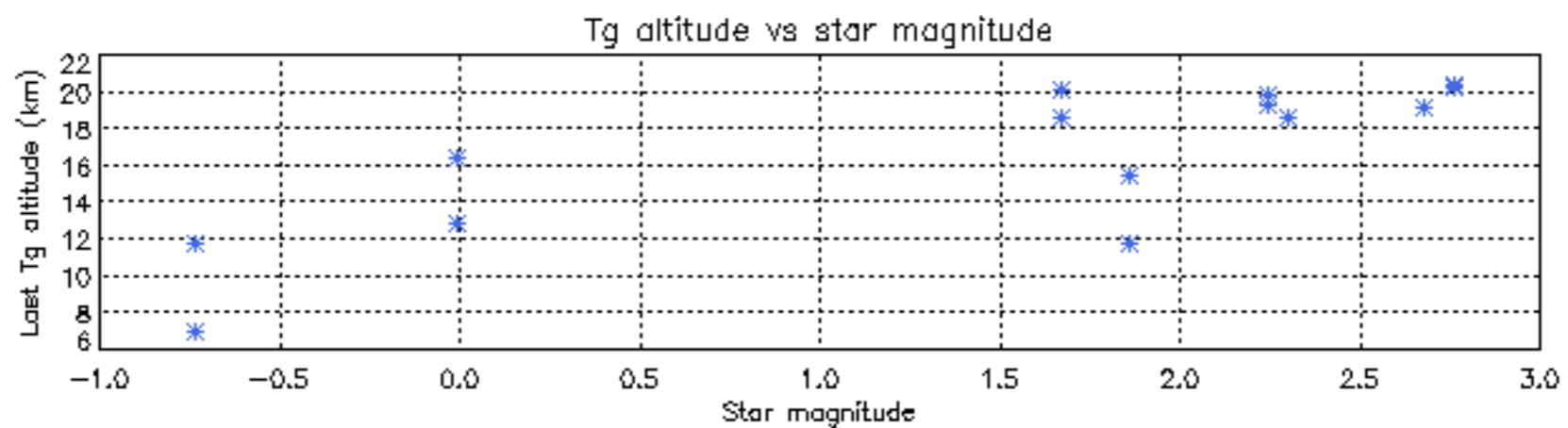
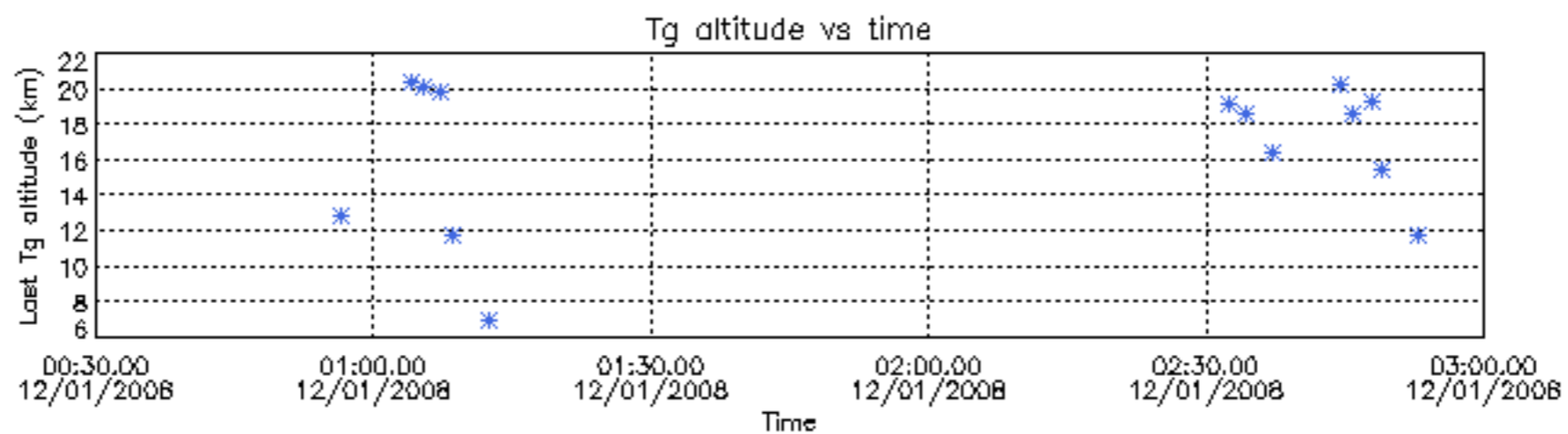
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

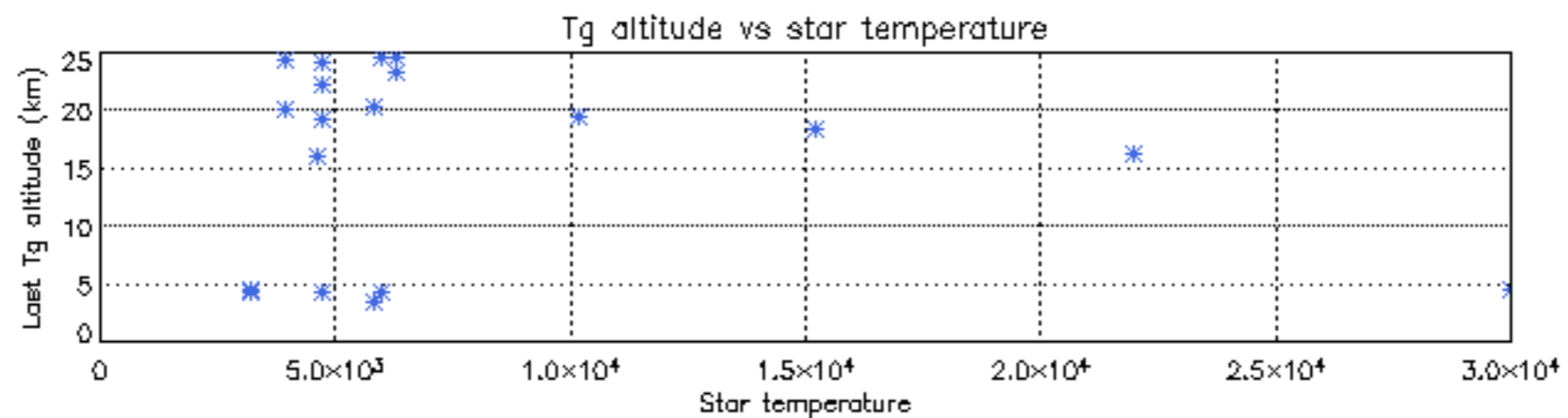
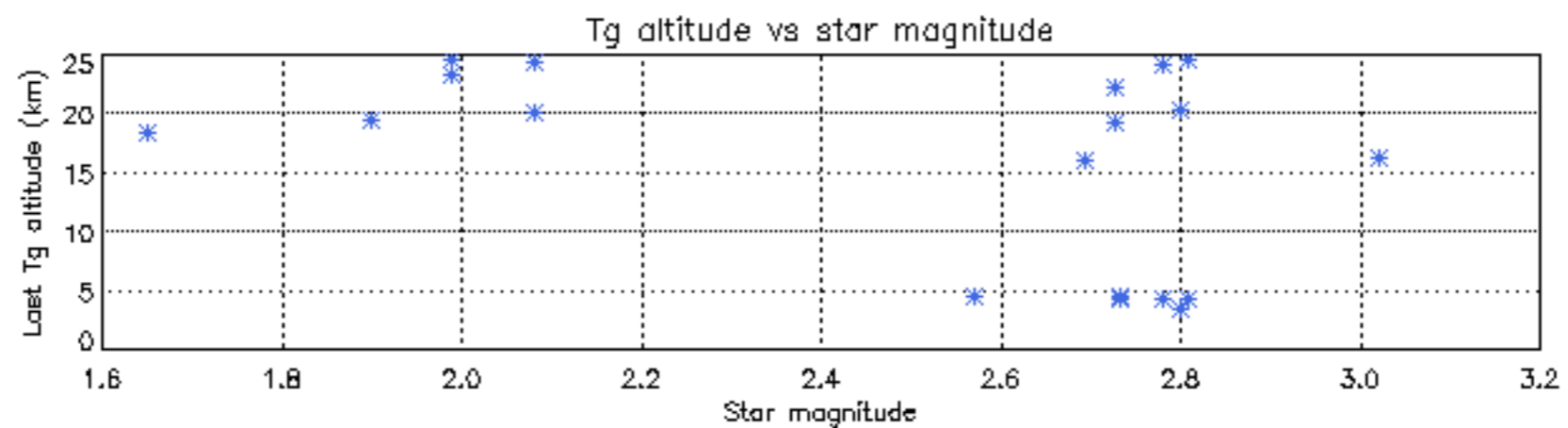
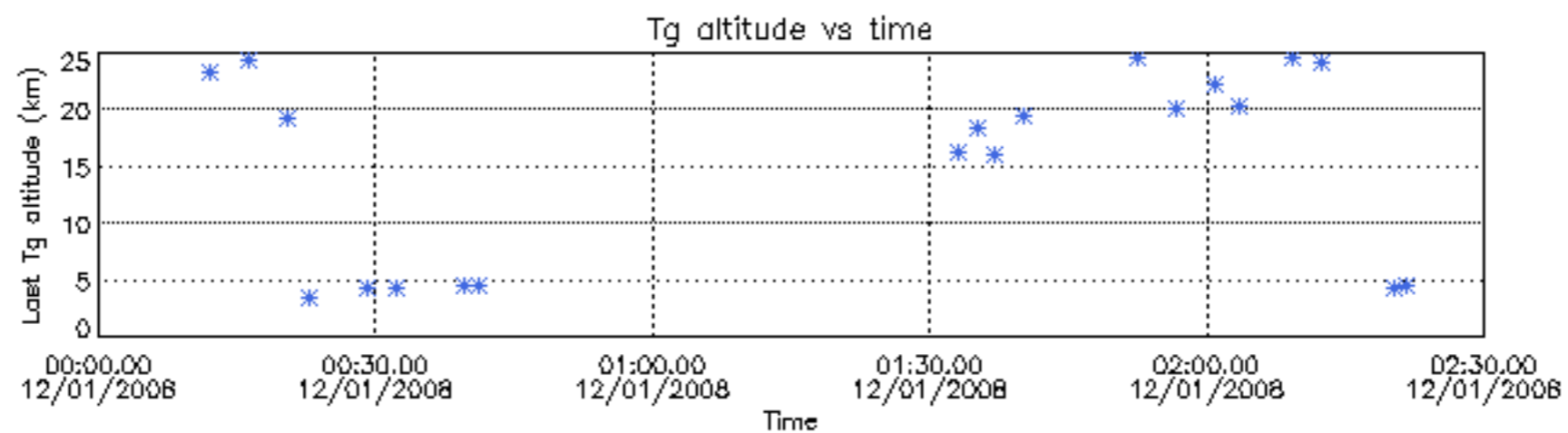


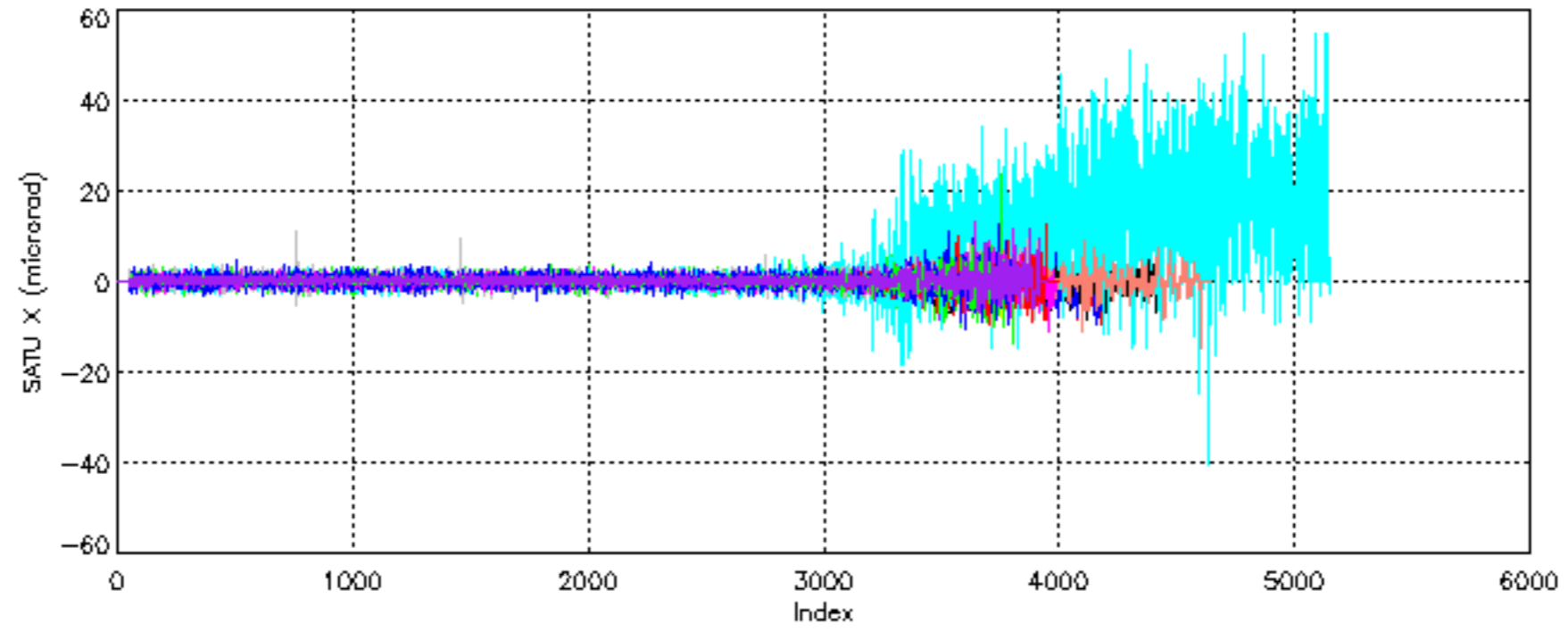
Tangent altitude at which the star is lost

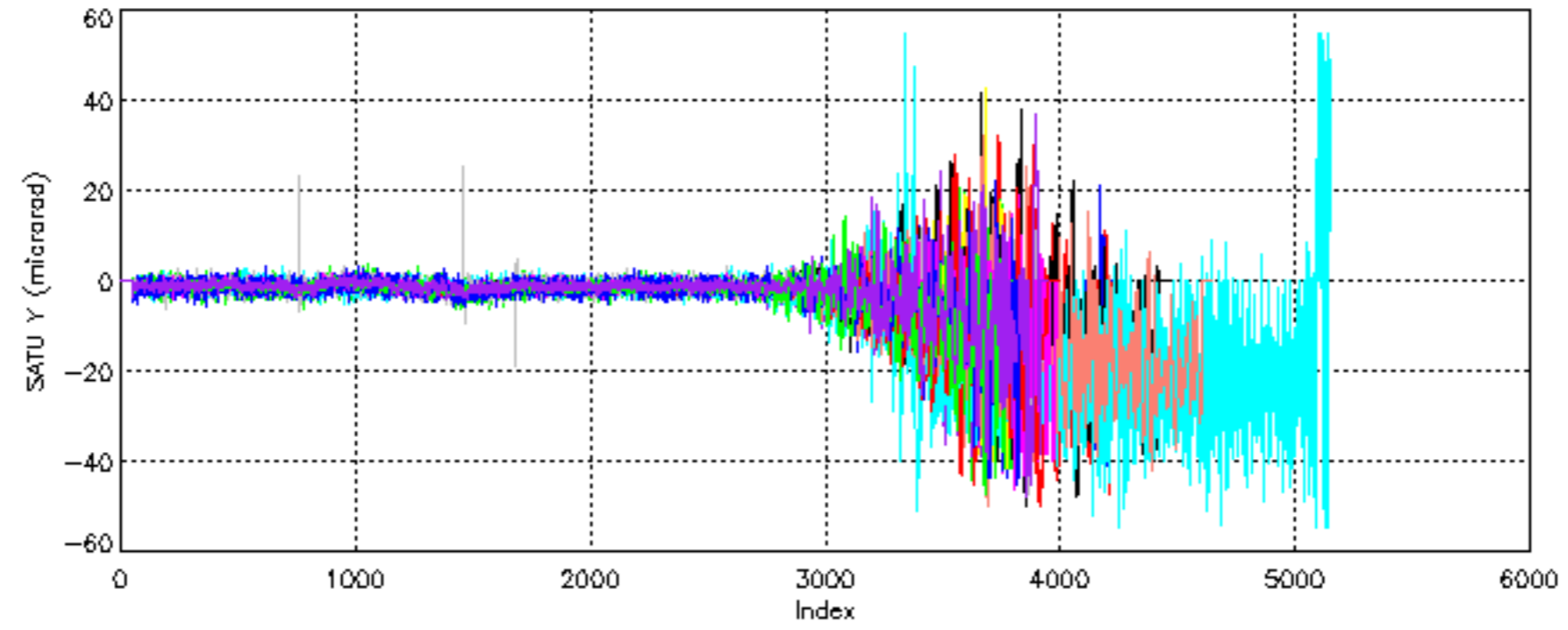


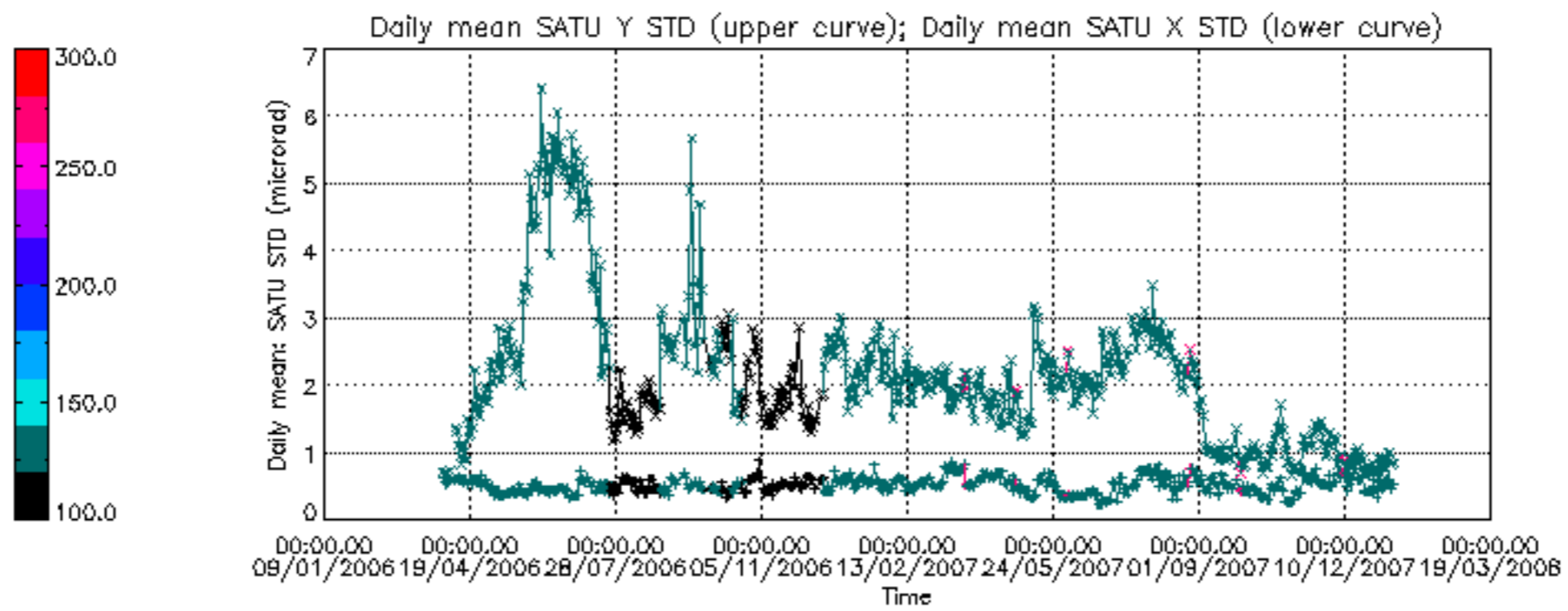


Tangent altitude at which the star is lost











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 3; -2.6; 01-JAN-2008 01:40:47; Dark ; 40.5; 4; Alp1Cen ; -0.01; 5800;occ; 81; 0;30517  
 4; 226.4; 01-JAN-2008 01:44:36; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;30518  
 5; 397.9; 01-JAN-2008 01:47:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30518  
 6; 545.2; 01-JAN-2008 01:49:54; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30518  
 7; 627.3; 01-JAN-2008 01:51:16; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30518  
 8; 723.1; 01-JAN-2008 01:52:52; Dark ; 52.0; 41; Eps Car ; 1.86; 4100;occ; 104; 0;30518  
 9; 977.3; 01-JAN-2008 01:57:06; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;30518  
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 12; 1769.0; 01-JAN-2008 02:10:18; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30518  
 13; 1881.1; 01-JAN-2008 02:12:10; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30518  
 14; 2033.3; 01-JAN-2008 02:14:42; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;30518  
 15; 2200.2; 01-JAN-2008 02:17:29; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;30518  
 16; 2398.1; 01-JAN-2008 02:20:47; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30518  
 17; 2472.5; 01-JAN-2008 02:22:02; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30518  
 18; 2611.4; 01-JAN-2008 02:24:20; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30518  
 19; 2693.4; 01-JAN-2008 02:25:42; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30518  
 20; 3423.3; 01-JAN-2008 02:37:52; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30518

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 3; -1988.5; 01-JAN-2008 02:48:17; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30518  
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 5; -1490.9; 01-JAN-2008 02:56:34; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;30518  
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 7; -1007.4; 01-JAN-2008 03:04:38; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30518  
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 9; -685.7; 01-JAN-2008 03:09:59; Dark ; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;30518  
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 15; 398.2; 01-JAN-2008 03:28:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30519  
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 17; 627.8; 01-JAN-2008 03:31:53; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;30519  
 18; 723.5; 01-JAN-2008 03:33:29; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;30519  
 19; 977.7; 01-JAN-2008 03:37:43; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;30519  
 20; 1319.9; 01-JAN-2008 03:43:25; Dark ; 38.5; 108; Alp Col ; 2.65; 15200;occ; 77; 0;30519  
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 23; 1881.4; 01-JAN-2008 03:52:46; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;30519  
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 25; 2200.5; 01-JAN-2008 03:58:05; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;30519  
 26; 2398.0; 01-JAN-2008 04:01:23; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;30519  
 27; 2472.6; 01-JAN-2008 04:02:38; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;30519  
 28; 2611.7; 01-JAN-2008 04:04:57; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30519  
 29; 2693.3; 01-JAN-2008 04:06:18; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30519  
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 3; -1988.2; 01-JAN-2008 04:28:53; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30519  
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 10; -360.4; 01-JAN-2008 04:56:01; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;30519  
 11; -282.1; 01-JAN-2008 04:57:19; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30519  
 12; -193.9; 01-JAN-2008 04:58:47; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30519  
 13; -105.9; 01-JAN-2008 05:00:15; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30519  
 14; -2.0; 01-JAN-2008 05:01:59; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;30519  
 15; 227.5; 01-JAN-2008 05:05:49; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;30520

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16; 398.5; 01-JAN-2008 05:08:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30520
17; 546.0; 01-JAN-2008 05:11:07; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;30520
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19; 724.0; 01-JAN-2008 05:14:05; Dark ; 45.5; 41; Eps Car ; 1.86; 4100;occ; 91; 0;30520
20; 977.9; 01-JAN-2008 05:18:19; Dark ; 53.0; 2; Alp Car ;-0.74; 7000;occ; 106; 0;30520
21; 1320.2; 01-JAN-2008 05:24:01; Dark ; 37.5; 108; Alp Col ; 2.65; 15200;occ; 75; 0;30520
22; 1569.1; 01-JAN-2008 05:28:10; Dark ; 43.0; 47; 2Bet CMA ; 1.98; 28000;occ; 86; 0;30520
23; 1769.4; 01-JAN-2008 05:31:30; Dark ; 50.5; 7; 19Bet Ori ; 0.10; 14000;occ; 101; 0;30520
24; 1881.5; 01-JAN-2008 05:33:23; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;30520
25; 2033.3; 01-JAN-2008 05:35:54; Dark ; 46.0; 14; 58Alp Ori ; 0.87; 3000;occ; 92; 0;30520
26; 2200.7; 01-JAN-2008 05:38:42; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30520
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28; 2472.6; 01-JAN-2008 05:43:14; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;30520
29; 2612.0; 01-JAN-2008 05:45:33; Bright; 34.0; 149; 45Eps Per ; 2.89; 30000;occ; 68; 0;30520
30; 2693.3; 01-JAN-2008 05:46:54; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30520
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3;-1988.1; 01-JAN-2008 06:09:29; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30520
4;-1614.5; 01-JAN-2008 06:15:42; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30520
5;-1490.7; 01-JAN-2008 06:17:46; Bright; 55.0; 67; 5Alp CrB ; 2.22; 11000;occ; 110; 0;30520
6;-1146.4; 01-JAN-2008 06:23:31; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30520
7;-1006.9; 01-JAN-2008 06:25:50; Bright; 33.0; 120; 1Del Oph ; 2.73; 3200;occ; 66; 0;30520
8;-843.1; 01-JAN-2008 06:28:34; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;30520
9;-684.5; 01-JAN-2008 06:31:13; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;30520
10; -360.0; 01-JAN-2008 06:36:37; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30520
11; -281.6; 01-JAN-2008 06:37:55; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;30520
12; -193.5; 01-JAN-2008 06:39:24; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;30520
13; -105.3; 01-JAN-2008 06:40:52; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;30520
14; -1.6; 01-JAN-2008 06:42:35; Dark ; 51.5; 4; Alp1Cen ;-0.01; 5800;occ; 103; 0;30520
15; 228.1; 01-JAN-2008 06:46:25; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30521
16; 398.8; 01-JAN-2008 06:49:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30521
17; 546.3; 01-JAN-2008 06:51:43; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30521
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19; 724.4; 01-JAN-2008 06:54:41; Dark ; 54.0; 41; Eps Car ; 1.86; 4100;occ; 108; 0;30521
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21; 1320.4; 01-JAN-2008 07:04:37; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30521
22; 1569.3; 01-JAN-2008 07:08:46; Dark ; 42.0; 47; 2Bet CMA ; 1.98; 28000;occ; 84; 0;30521
23; 1769.6; 01-JAN-2008 07:12:07; Dark ; 15.0; 7; 19Bet Ori ; 0.10; 14000;occ; 30; 0;30521
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8; 2692.0; 02-JAN-2008 08:36:28; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;30536
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12; 4050.7; 02-JAN-2008 08:59:07; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30536
13; 4424.1; 02-JAN-2008 09:05:20; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30536
14; 4548.3; 02-JAN-2008 09:07:24; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;30536
15; 4894.2; 02-JAN-2008 09:13:10; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;30536
16; 5032.8; 02-JAN-2008 09:15:29; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30536
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25; 6439.4; 02-JAN-2008 09:38:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30536
26; 6588.0; 02-JAN-2008 09:41:24; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30536
27; 6673.4; 02-JAN-2008 09:42:49; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30536
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30; 7359.5; 02-JAN-2008 09:54:15; Dark ; 36.5; 108; Alp Col ; 2.65; 15200;occ; 73; 0;30536
31; 7607.3; 02-JAN-2008 09:58:23; Dark ; 43.0; 47; 2Bet CMa ; 1.98; 28000;occ; 86; 0;30536
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 3; 2032.4; 02-JAN-2008 10:06:04; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;30537
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 23; 6273.2; 02-JAN-2008 12:57:21; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30538  
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 7; 2473.0; 02-JAN-2008 13:34:37; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30539  
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 11; 3922.7; 02-JAN-2008 13:58:46; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30539  
 12; 4051.3; 02-JAN-2008 14:00:55; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30539  
 13; 4424.5; 02-JAN-2008 14:07:08; Bright; 41.0; 133; 40Zet Her ; 2.81; 6000;occ; 82; 0;30539  
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 22; 6040.3; 02-JAN-2008 14:34:04; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;30539  
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9; 2395.6; 03-JAN-2008 21:24:42; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30558
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14; 3923.4; 03-JAN-2008 21:50:10; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30558
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16; 4427.4; 03-JAN-2008 21:58:34; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30558
17; 4552.2; 03-JAN-2008 22:00:39; Bright; 38.0; 67; 5Alp CrB ; 2.22; 11000;occ; 76; 0;30558
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19; 5038.4; 03-JAN-2008 22:08:45; Bright; 52.0; 120; 1Del Oph ; 2.73; 3200;occ; 104; 0;30558
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29; 7025.5; 04-JAN-2008 08:45:27; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;30564  
30; 7223.2; 04-JAN-2008 08:48:45; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30564  
31; 7387.8; 04-JAN-2008 08:51:30; Dark ; 28.0; 23; 21Eps CMa ; 1.50; 26000;occ; 56; 0;30564  
32; 7611.4; 04-JAN-2008 08:55:13; Dark ; 41.5; 47; 2Bet CMa ; 1.98; 28000;occ; 83; 0;30564

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5; 2395.5; 04-JAN-2008 09:08:53; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30565  
6; 2474.6; 04-JAN-2008 09:10:13; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30565  
7; 2558.2; 04-JAN-2008 09:11:36; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;30565  
8; 2690.3; 04-JAN-2008 09:13:48; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;30565  
9; 3423.8; 04-JAN-2008 09:26:02; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;30565  
10; 3686.8; 04-JAN-2008 09:30:25; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30565  
11; 3923.6; 04-JAN-2008 09:34:22; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30565  
12; 4055.6; 04-JAN-2008 09:36:34; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30565  
13; 4428.7; 04-JAN-2008 09:42:47; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30565  
14; 4553.6; 04-JAN-2008 09:44:52; Bright; 38.5; 67; 5Alp CrB ; 2.22; 11000;occ; 77; 0;30565  
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16; 5040.4; 04-JAN-2008 09:52:58; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;30565  
17; 5214.0; 04-JAN-2008 09:55:52; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;30565  
18; 5423.8; 04-JAN-2008 09:59:22; Dark ; 37.0; 158; 6Pi Sco ; 2.91; 28000;occ; 74; 0;30565  
19; 5690.4; 04-JAN-2008 10:03:48; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;30565  
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21; 5863.6; 04-JAN-2008 10:06:42; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;30565  
22; 5959.1; 04-JAN-2008 10:08:17; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30565  
23; 6049.0; 04-JAN-2008 10:09:47; Dark ; 40.5; 4; Alp1Cen ;-0.01; 5800;occ; 81; 0;30565  
24; 6287.3; 04-JAN-2008 10:13:45; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30565  
25; 6447.8; 04-JAN-2008 10:16:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30565  
26; 6598.4; 04-JAN-2008 10:18:56; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30565  
27; 6688.9; 04-JAN-2008 10:20:27; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30565  
28; 6780.1; 04-JAN-2008 10:21:58; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;30565  
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31; 7387.9; 04-JAN-2008 10:32:06; Dark ; 35.0; 23; 21Eps CMa ; 1.50; 26000;occ; 70; 0;30565  
32; 7611.4; 04-JAN-2008 10:35:49; Dark ; 42.0; 47; 2Bet CMa ; 1.98; 28000;occ; 84; 0;30565

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4; 2031.5; 04-JAN-2008 10:43:25; Dark ; 45.0; 14; 58Alp Ori ; 0.87; 3000;occ; 90; 0;30566  
5; 2208.6; 04-JAN-2008 10:46:22; Bright; 42.0; 13; 87Alp Tau ; 0.87; 3800;occ; 84; 0;30566  
6; 2395.4; 04-JAN-2008 10:49:29; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30566



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9; 2690.2; 04-JAN-2008 10:54:24; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30566
10; 3423.8; 04-JAN-2008 11:06:38; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30566
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24; 5959.9; 04-JAN-2008 11:48:54; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30566
25; 6049.3; 04-JAN-2008 11:50:23; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;30566
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32; 7223.8; 04-JAN-2008 12:09:58; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;30566
33; 7388.2; 04-JAN-2008 12:12:42; Dark ; 35.0; 23; 21Eps CMA ; 1.50; 26000;occ; 70; 0;30566
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6; 2395.4; 04-JAN-2008 12:30:05; Bright; 36.0; 28; 12Bet Tau ; 1.65; 15200;occ; 72; 0;30567
7; 2474.8; 04-JAN-2008 12:31:24; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;30567
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9; 2690.2; 04-JAN-2008 12:35:00; Bright; 37.5; 6; 13Alp Aur ; 0.08; 3400;occ; 75; 0;30567
10; 3423.8; 04-JAN-2008 12:47:13; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;30567
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12; 3923.8; 04-JAN-2008 12:55:34; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30567
13; 4056.0; 04-JAN-2008 12:57:46; Bright; 48.0; 130; 23Bet Dra ; 2.80; 5800;occ; 96; 0;30567
14; 4429.1; 04-JAN-2008 13:03:59; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30567
15; 4553.9; 04-JAN-2008 13:06:04; Bright; 46.5; 67; 5Alp CrB ; 2.22; 11000;occ; 93; 0;30567
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17; 5041.0; 04-JAN-2008 13:14:11; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30567
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5; -171.1; 04-JAN-2008 13:27:54; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30567
6; -75.4; 04-JAN-2008 13:29:30; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30567
7; 13.9; 04-JAN-2008 13:30:59; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;30568
8; 252.4; 04-JAN-2008 13:34:58; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30568
9; 412.5; 04-JAN-2008 13:37:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30568
10; 563.3; 04-JAN-2008 13:40:09; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30568
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12; 745.0; 04-JAN-2008 13:43:11; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;30568
13; 990.3; 04-JAN-2008 13:47:16; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;30568
14; 1188.4; 04-JAN-2008 13:50:34; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;30568
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7; 2474.9; 04-JAN-2008 14:12:00; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30568  
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19; 5216.2; 04-JAN-2008 16:38:18; Bright; 37.5; 104; 27Bet Lib ; 2.61; 13100;occ; 75; 0;30569  
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23; 5776.5; 04-JAN-2008 16:47:38; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30569  
24; 5865.7; 04-JAN-2008 16:49:07; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30569  
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27; 6289.4; 04-JAN-2008 16:56:11; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;30569  
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33; 7225.1; 04-JAN-2008 17:11:47; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;30569

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16; 4429.6; 04-JAN-2008 18:05:47; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30570  
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21; 5315.7; 04-JAN-2008 18:20:33; Bright; 48.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 97; 0;30570  
22; 5692.2; 04-JAN-2008 18:26:50; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30570  
23; 5776.9; 04-JAN-2008 18:28:14; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;30570  
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29; 6600.3; 04-JAN-2008 18:41:58; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30570  
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28; 6290.3; 04-JAN-2008 20:17:24; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30571  
29; 6449.6; 04-JAN-2008 20:20:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30571  
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13; 1354.3; 05-JAN-2008 01:37:31; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;30575
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32; 2689.9; 05-JAN-2008 05:20:59; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30577
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23; 1355.3; 05-JAN-2008 06:39:20; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;30578
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25; 1777.5; 05-JAN-2008 06:46:23; Dark ; 41.5; 7; 19Bet Ori ; 0.10; 14000;occ; 83; 0;30578
26; 1885.7; 05-JAN-2008 06:48:11; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;30578
27; 2031.4; 05-JAN-2008 06:50:36; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 0;30578
28; 2268.3; 05-JAN-2008 06:54:33; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30578
29; 2395.2; 05-JAN-2008 06:56:40; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30578
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 9; 418.0; 05-JAN-2008 21:29:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30587  
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 18; 1886.4; 05-JAN-2008 21:53:35; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;30587  
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 22; 2476.2; 05-JAN-2008 22:03:25; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30587  
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 27; 3924.2; 05-JAN-2008 22:27:33; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30587  
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 4; 660.2; 05-JAN-2008 09:48:57; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30580  
 5; 750.0; 05-JAN-2008 09:50:27; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;30580  
 6; 993.1; 05-JAN-2008 09:54:30; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;30580  
 7; 1192.4; 05-JAN-2008 09:57:49; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30580  
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 13; 4060.9; 06-JAN-2008 16:56:24; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30598  
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 22; 6060.7; 06-JAN-2008 17:29:44; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;30598  
 23; 6304.6; 06-JAN-2008 17:33:48; Dark ; 49.5; 12; Alp1Cru ; 0.77; 30000;occ; 99; 0;30598  
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 25; 6610.0; 06-JAN-2008 17:38:54; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30598  
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 24; 6061.1; 06-JAN-2008 19:10:21; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;30599  
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12; 4435.3; 07-JAN-2008 08:08:02; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;30607
13; 4614.2; 07-JAN-2008 08:11:01; Bright; 53.0; 127; 27Bet Her ; 2.78; 4700;occ; 106; 0;30607
14; 4918.2; 07-JAN-2008 08:16:05; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30607
15; 5052.7; 07-JAN-2008 08:18:20; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;30607
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17; 5706.1; 07-JAN-2008 08:29:13; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;30607
18; 5795.4; 07-JAN-2008 08:30:42; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;30607
19; 5885.2; 07-JAN-2008 08:32:12; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30607
20; 6063.9; 07-JAN-2008 08:35:11; Dark ; 42.0; 4; Alp1Cen ; -0.01; 5800;occ; 84; 0;30607
21; 6309.4; 07-JAN-2008 08:39:16; Dark ; 48.5; 12; Alp1Cru ; 0.77; 30000;occ; 97; 0;30607
22; 6459.9; 07-JAN-2008 08:41:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30607
23; 6613.0; 07-JAN-2008 08:44:20; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30607
24; 6710.5; 07-JAN-2008 08:45:58; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30607
25; 6797.4; 07-JAN-2008 08:47:24; Dark ; 51.5; 41; Eps Car ; 1.86; 4100;occ; 103; 0;30607
26; 7035.7; 07-JAN-2008 08:51:23; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;30607
27; 7237.5; 07-JAN-2008 08:54:45; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;30607
28; 7398.6; 07-JAN-2008 08:57:26; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;30607
29; 7617.5; 07-JAN-2008 09:01:05; Dark ; 43.5; 47; 2Bet CMa ; 1.98; 28000;occ; 87; 0;30607
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 3; 2031.4; 07-JAN-2008 09:08:34; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;30608
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 5; 2395.2; 07-JAN-2008 09:14:38; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30608

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8; 3424.1; 07-JAN-2008 09:31:47; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30608  
9; 3681.6; 07-JAN-2008 09:36:05; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30608  
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12; 4435.4; 07-JAN-2008 09:48:38; Bright; 49.5; 133; 40Zet Her ; 2.81; 6000;occ; 99; 0;30608  
13; 4614.3; 07-JAN-2008 09:51:37; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30608  
14; 4918.5; 07-JAN-2008 09:56:41; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;30608  
15; 5053.0; 07-JAN-2008 09:58:56; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30608  
16; 5380.2; 07-JAN-2008 10:04:23; Dark ; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;30608  
17; 5706.4; 07-JAN-2008 10:09:49; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30608  
18; 5796.0; 07-JAN-2008 10:11:19; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;30608  
19; 5885.8; 07-JAN-2008 10:12:49; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30608  
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21; 6309.9; 07-JAN-2008 10:19:53; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30608  
22; 6460.2; 07-JAN-2008 10:22:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30608  
23; 6613.4; 07-JAN-2008 10:24:56; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30608  
24; 6710.9; 07-JAN-2008 10:26:34; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30608  
25; 6797.8; 07-JAN-2008 10:28:01; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;30608  
26; 7035.8; 07-JAN-2008 10:31:59; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30608  
27; 7237.7; 07-JAN-2008 10:35:21; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;30608  
28; 7398.8; 07-JAN-2008 10:38:02; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;30608  
29; 7617.6; 07-JAN-2008 10:41:40; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;30608

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3; 2031.3; 07-JAN-2008 10:49:10; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;30609  
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5; 2395.1; 07-JAN-2008 10:55:14; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30609  
6; 2478.6; 07-JAN-2008 10:56:37; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30609  
7; 2689.4; 07-JAN-2008 11:00:08; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;30609  
8; 3424.1; 07-JAN-2008 11:12:23; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30609  
9; 3681.4; 07-JAN-2008 11:16:40; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;30609  
10; 3924.6; 07-JAN-2008 11:20:43; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;30609  
11; 4062.3; 07-JAN-2008 11:23:01; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30609  
12; 4435.5; 07-JAN-2008 11:29:14; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;30609  
13; 4614.4; 07-JAN-2008 11:32:13; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30609  
14; 4918.8; 07-JAN-2008 11:37:18; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30609  
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17; 5706.9; 07-JAN-2008 11:50:26; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;30609  
18; 5796.4; 07-JAN-2008 11:51:55; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30609  
19; 5886.2; 07-JAN-2008 11:53:25; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30609  
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21; 6310.4; 07-JAN-2008 12:00:29; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30609  
22; 6460.4; 07-JAN-2008 12:02:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30609  
23; 6613.6; 07-JAN-2008 12:05:32; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30609  
24; 6711.4; 07-JAN-2008 12:07:10; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30609  
25; 6798.2; 07-JAN-2008 12:08:37; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;30609  
26; 7036.0; 07-JAN-2008 12:12:35; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;30609  
27; 7238.0; 07-JAN-2008 12:15:57; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30609  
28; 7399.0; 07-JAN-2008 12:18:38; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;30609  
29; 7617.7; 07-JAN-2008 12:22:17; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;30609

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3; 1888.7; 07-JAN-2008 12:27:23; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30610  
4; 2031.4; 07-JAN-2008 12:29:46; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;30610  
5; 2268.1; 07-JAN-2008 12:33:43; Bright; 34.0; 176; 23Zet Tau ; 3.02; 22000;occ; 68; 0;30610  
6; 2395.2; 07-JAN-2008 12:35:50; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30610  
7; 2478.7; 07-JAN-2008 12:37:13; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30610  
8; 2689.5; 07-JAN-2008 12:40:44; Bright; 37.5; 6; 13Alp Aur ; 0.08; 3400;occ; 75; 0;30610  
9; 3424.1; 07-JAN-2008 12:52:59; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30610  
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11; 3924.6; 07-JAN-2008 13:01:19; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;30610  
12; 4062.5; 07-JAN-2008 13:03:37; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30610  
13; 4435.7; 07-JAN-2008 13:09:50; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;30610

14; 4614.7; 07-JAN-2008 13:12:49; Bright; 53.0; 127; 27Bet Her ; 2.78; 4700;occ; 106; 0;30610  
 15; 4919.2; 07-JAN-2008 13:17:54; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30610  
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 19; 5797.0; 07-JAN-2008 13:32:32; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30610  
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 21; 6065.0; 07-JAN-2008 13:37:00; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;30610  
 22; 6311.0; 07-JAN-2008 13:41:06; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30610  
 23; 6460.8; 07-JAN-2008 13:43:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30610  
 24; 6614.0; 07-JAN-2008 13:46:09; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30610  
 25; 6711.9; 07-JAN-2008 13:47:47; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30610  
 26; 6798.7; 07-JAN-2008 13:49:13; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;30610  
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 28; 7238.4; 07-JAN-2008 13:56:33; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30610  
 29; 7399.2; 07-JAN-2008 13:59:14; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;30610

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 4; 2031.5; 07-JAN-2008 14:10:22; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 0;30611  
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 6; 2395.2; 07-JAN-2008 14:16:26; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30611  
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 8; 2689.5; 07-JAN-2008 14:21:20; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30611  
 9; 3424.2; 07-JAN-2008 14:33:35; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;30611  
 10; 3681.2; 07-JAN-2008 14:37:52; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30611  
 11; 3924.6; 07-JAN-2008 14:41:55; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30611  
 12; 4062.8; 07-JAN-2008 14:44:13; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;30611  
 13; 4436.0; 07-JAN-2008 14:50:27; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30611  
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 15; 4919.7; 07-JAN-2008 14:58:30; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30611  
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 17; 5381.4; 07-JAN-2008 15:06:12; Dark ; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;30611  
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 19; 5797.5; 07-JAN-2008 15:13:08; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30611  
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 22; 6311.5; 07-JAN-2008 15:21:42; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;30611  
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 6; 2268.1; 07-JAN-2008 15:54:55; Bright; 37.0; 176; 23Zet Tau ; 3.02; 22000;occ; 74; 0;30612  
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 9; 2689.5; 07-JAN-2008 16:01:56; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;30612  
 10; 3424.2; 07-JAN-2008 16:14:11; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30612  
 11; 3681.0; 07-JAN-2008 16:18:28; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30612  
 12; 3924.6; 07-JAN-2008 16:22:31; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30612  
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 17; 5054.3; 07-JAN-2008 16:41:21; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;30612  
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 19; 5708.2; 07-JAN-2008 16:52:15; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30612  
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 21; 5887.9; 07-JAN-2008 16:55:14; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30612

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 19; 5069.2; 10-JAN-2008 20:08:33; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;30657  
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 23; 5726.8; 10-JAN-2008 20:19:30; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30657  
 24; 5822.6; 10-JAN-2008 20:21:06; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;30657  
 25; 5913.0; 10-JAN-2008 20:22:37; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;30657  
 26; 6082.9; 10-JAN-2008 20:25:26; Dark ; 40.5; 4; Alp1Cen ; -0.01; 5800;occ; 81; 0;30657  
 27; 6295.8; 10-JAN-2008 20:28:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30657  
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29; 7452.3; 25-JAN-2008 09:32:49; Dark ; 37.5; 23; 21Eps CMa ; 1.50; 26000;occ; 75; 0;30865
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 14; 5525.0; 25-JAN-2008 10:41:17; Dark ; 38.0; 136; 23Tau Sco ; 2.82; 30000;occ; 76; 0;30866  
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 16; 5681.0; 25-JAN-2008 10:43:53; Dark ; 38.0; 40; The Sco ; 1.86; 7100;occ; 76; 0;30866  
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 19; 6092.3; 25-JAN-2008 10:50:44; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;30866  
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 23; 6692.7; 25-JAN-2008 11:00:45; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30866  
 24; 6824.4; 25-JAN-2008 11:02:56; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;30866  
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 19; 6092.6; 25-JAN-2008 12:31:21; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;30867  
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 25; 6932.9; 25-JAN-2008 12:45:21; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;30867  
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 9; 2677.6; 25-JAN-2008 14:55:37; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30869  
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 22; 6179.3; 25-JAN-2008 15:53:59; Dark ; 52.5; 4; Alp1Cen ; -0.01; 5800;occ; 105; 0;30869  
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5; -233.1; 27-JAN-2008 21:26:52; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;30901

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| 8;  | 325.5;   | 27-JAN-2008 | 21:36:11; | Dark    | ; | 59.5; | 0;   |           | ; | 0.00;  | 0;occ;     | 119; | 0; | 30902 |
| 9;  | 434.6;   | 27-JAN-2008 | 21:38:00; | Dark    | ; | 41.5; | 12;  | Alp1Cru   | ; | 0.77;  | 30000;occ; | 83;  | 0; | 30902 |
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| 24;   | 3427.2;  | 27-JAN-2008 | 22:27:53; | Bright; |   | 37.0; | 49;  | 1Alp UMi  | ; | 1.99;  | 6300;occ;  | 74;  | 0; | 30902 |
| 25;   | 4086.8;  | 27-JAN-2008 | 22:38:52; | Bright; |   | 37.0; | 130; | 23Bet Dra | ; | 2.80;  | 5800;occ;  | 74;  | 0; | 30902 |
| 26;   | 4295.3;  | 27-JAN-2008 | 22:42:21; | Bright; |   | 37.0; | 5;   | 3Alp Lyr  | ; | 0.03;  | 11000;occ; | 74;  | 0; | 30902 |
| 27;   | 4779.7;  | 27-JAN-2008 | 22:50:25; | Bright; |   | 53.0; | 59;  | 55Alp Oph | ; | 2.08;  | 8900;occ;  | 106; | 0; | 30902 |
| 28;   | 4906.6;  | 27-JAN-2008 | 22:52:32; | Bright; |   | 34.5; | 126; | 60Bet Oph | ; | 2.77;  | 4250;occ;  | 69;  | 0; | 30902 |
| 29;   | 5284.1;  | 27-JAN-2008 | 22:58:50; | Dark    | ; | 42.0; | 86;  | 35Eta Oph | ; | 2.43;  | 10200;occ; | 84;  | 0; | 30902 |
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| 1;  | -751.8;  | 27-JAN-2008 | 22:58:50; | Dark    | ; | 43.5; | 86;  | 35Eta Oph | ; | 2.43;  | 10200;occ; | 87;  | 0; | 30902 |
| 2;  | -505.5;  | 27-JAN-2008 | 23:02:56; | Dark    | ; | 52.0; | 16;  | 21Alp Sco | ; | 1.02;  | 3000;occ;  | 104; | 0; | 30902 |
| 3;  | -347.3;  | 27-JAN-2008 | 23:05:34; | Dark    | ; | 38.5; | 40;  | The Sco   | ; | 1.86;  | 7100;occ;  | 77;  | 0; | 30902 |
| 4;  | -233.0;  | 27-JAN-2008 | 23:07:28; | Dark    | ; | 37.5; | 147; | Alp Ara   | ; | 2.88;  | 26000;occ; | 75;  | 0; | 30902 |
| 5;  | 68.4;    | 27-JAN-2008 | 23:12:30; | Dark    | ; | 37.5; | 134; | Bet TrA   | ; | 2.81;  | 6600;occ;  | 75;  | 0; | 30903 |
| 6;  | 160.3;   | 27-JAN-2008 | 23:14:02; | Dark    | ; | 42.5; | 4;   | Alp1Cen   | ; | -0.01; | 5800;occ;  | 85;  | 0; | 30903 |
| 7;  | 325.8;   | 27-JAN-2008 | 23:16:47; | Dark    | ; | 59.5; | 0;   |           | ; | 0.00;  | 0;occ;     | 119; | 0; | 30903 |
| 8;  | 435.2;   | 27-JAN-2008 | 23:18:37; | Dark    | ; | 39.5; | 12;  | Alp1Cru   | ; | 0.77;  | 30000;occ; | 79;  | 0; | 30903 |
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| 10;   | 801.7;   | 27-JAN-2008 | 23:24:43; | Dark    | ; | 42.5; | 71;  | Iot Car   | ; | 2.25;  | 7700;occ;  | 85;  | 0; | 30903 |
| 11;   | 908.8;   | 27-JAN-2008 | 23:26:30; | Dark    | ; | 42.0; | 46;  | Del Vel   | ; | 1.95;  | 10600;occ; | 84;  | 0; | 30903 |
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| 16;   | 1505.6;  | 27-JAN-2008 | 23:36:27; | Dark    | ; | 38.5; | 179; | 240mi2CMA | ; | 3.03;  | 24000;occ; | 77;  | 0; | 30903 |
| 17;   | 1635.0;  | 27-JAN-2008 | 23:38:36; | Dark    | ; | 48.0; | 1;   | 9Alp CMA  | ; | -1.44; | 11000;occ; | 96;  | 0; | 30903 |
| 18;   | 2047.1;  | 27-JAN-2008 | 23:45:28; | Dark    | ; | 40.0; | 153; | 3Bet CMI  | ; | 2.89;  | 13100;occ; | 80;  | 0; | 30903 |
| 19;   | 2191.6;  | 27-JAN-2008 | 23:47:53; | Bright; |   | 37.5; | 44;  | 24Gam Gem | ; | 1.93;  | 11000;occ; | 75;  | 0; | 30903 |
| 20;   | 2299.5;  | 27-JAN-2008 | 23:49:41; | Bright; |   | 38.0; | 151; | 13Mu Gem  | ; | 2.89;  | 3000;occ;  | 76;  | 0; | 30903 |
| 21;   | 2554.8;  | 27-JAN-2008 | 23:53:56; | Bright; |   | 35.0; | 107; | 37The Aur | ; | 2.65;  | 11000;occ; | 70;  | 0; | 30903 |
| 22;   | 2681.8;  | 27-JAN-2008 | 23:56:03; | Bright; |   | 35.5; | 42;  | 34Bet Aur | ; | 1.90;  | 10200;occ; | 71;  | 0; | 30903 |
| 23;   | 3427.2;  | 28-JAN-2008 | 00:08:29; | Bright; |   | 36.0; | 49;  | 1Alp UMi  | ; | 1.99;  | 6300;occ;  | 72;  | 0; | 30903 |
| 24;   | 4087.0;  | 28-JAN-2008 | 00:19:28; | Bright; |   | 36.5; | 130; | 23Bet Dra | ; | 2.80;  | 5800;occ;  | 73;  | 0; | 30903 |
| 25;   | 4295.5;  | 28-JAN-2008 | 00:22:57; | Bright; |   | 35.0; | 5;   | 3Alp Lyr  | ; | 0.03;  | 11000;occ; | 70;  | 0; | 30903 |
| 26;   | 4780.0;  | 28-JAN-2008 | 00:31:01; | Bright; |   | 35.0; | 59;  | 55Alp Oph | ; | 2.08;  | 8900;occ;  | 70;  | 0; | 30903 |
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| 7;  | -429.2;  | 27-JAN-2008 | 07:58:49; | Dark    | ; | 43.5; | 75;  | 26Eps Sco | ; | 2.29;  | 4250;occ;  | 87;  | 0; | 30893 |
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| 9;  | 65.3;    | 27-JAN-2008 | 08:07:03; | Dark    | ; | 36.0; | 134; | Bet TrA   | ; | 2.81;  | 6600;occ;  | 72;  | 0; | 30894 |
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| 11;   | 323.2;   | 27-JAN-2008 | 08:11:21; | Dark    | ; | 59.5; | 0;   |           | ; | 0.00;  | 0;occ;     | 119; | 0; | 30894 |
| 12;   | 430.3;   | 27-JAN-2008 | 08:13:08; | Dark    | ; | 40.0; | 12;  | Alp1Cru   | ; | 0.77;  | 30000;occ; | 80;  | 0; | 30894 |
| 13;   | 664.0;   | 27-JAN-2008 | 08:17:02; | Dark    | ; | 38.0; | 29;  | Bet Car   | ; | 1.67;  | 10200;occ; | 76;  | 0; | 30894 |
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11; 4904.4; 27-JAN-2008 09:27:42; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;30894
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27; 7540.8; 27-JAN-2008 13:32:51; Dark ; 37.0; 179; 240mi2CMa ; 3.03; 24000;occ; 74; 0;30896

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23; 6943.1; 27-JAN-2008 15:03:29; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;30897  
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26; 7310.8; 27-JAN-2008 15:09:36; Dark ; 37.0; 117; Pi Pup ; 2.71; 3800;occ; 74; 0;30897

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7; 2298.9; 27-JAN-2008 15:26:40; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;30898  
8; 2553.8; 27-JAN-2008 15:30:55; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;30898  
9; 2681.2; 27-JAN-2008 15:33:03; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;30898  
10; 3427.3; 27-JAN-2008 15:45:29; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30898  
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12; 4294.8; 27-JAN-2008 15:59:56; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;30898  
13; 4778.8; 27-JAN-2008 16:08:00; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;30898  
14; 4905.6; 27-JAN-2008 16:10:07; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;30898  
15; 5282.5; 27-JAN-2008 16:16:24; Dark ; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;30898  
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17; 5609.1; 27-JAN-2008 16:21:51; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;30898  
 18; 5687.9; 27-JAN-2008 16:23:09; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;30898  
 19; 6103.1; 27-JAN-2008 16:30:05; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;30898  
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 22; 6469.0; 27-JAN-2008 16:36:11; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30898  
 23; 6701.4; 27-JAN-2008 16:40:03; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30898  
 24; 6836.2; 27-JAN-2008 16:42:18; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;30898  
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 13; 4294.9; 27-JAN-2008 17:40:32; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;30899  
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 16; 5283.0; 27-JAN-2008 17:57:01; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;30899  
 17; 5528.7; 27-JAN-2008 18:01:06; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;30899  
 18; 5609.6; 27-JAN-2008 18:02:27; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;30899  
 19; 5688.1; 27-JAN-2008 18:03:46; Dark ; 38.0; 40; The Sco ; 1.86; 7100;occ; 76; 0;30899  
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 21; 6194.7; 27-JAN-2008 18:12:12; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;30899  
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9; 305.9; 22-JAN-2008 22:33:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30831
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28; 7545.1; 29-JAN-2008 09:08:29; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;30922
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