

GOMOS Daily Report 16-JAN-2009

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](#)

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 | 20JAN2009 05:49:32 |
| Data source version | GOMOS/5.00 |
| Start time of products | 16JAN2009 00:02:48 |
| Stop time of products | 16JAN2009 02:43:06 |
| Store outputs in DB | Yes |
| Nb of level 1b prods | 49 |
| Nb of prods with errors | 0 |

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

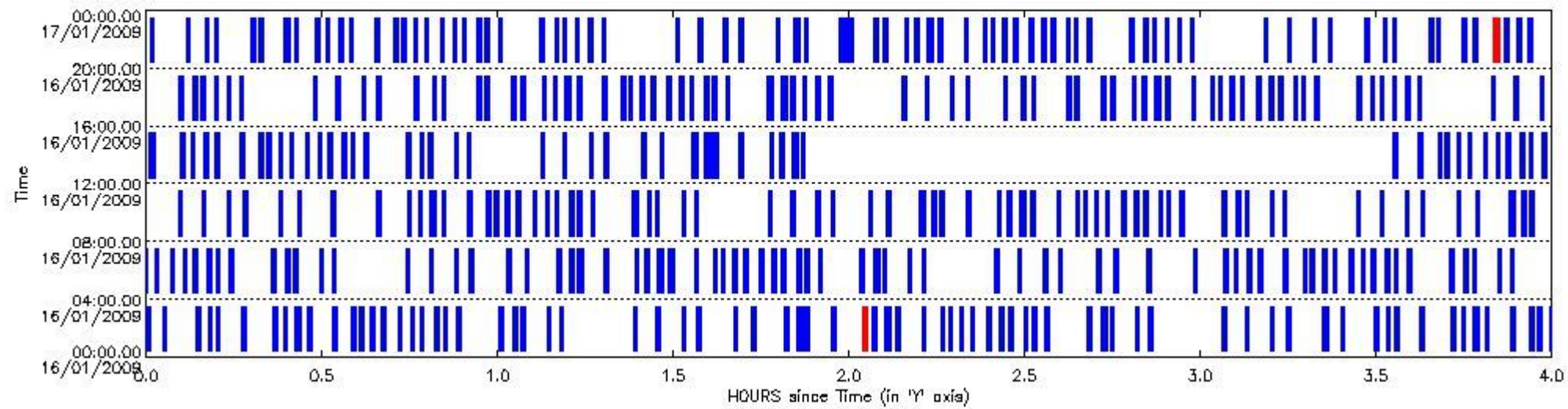
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

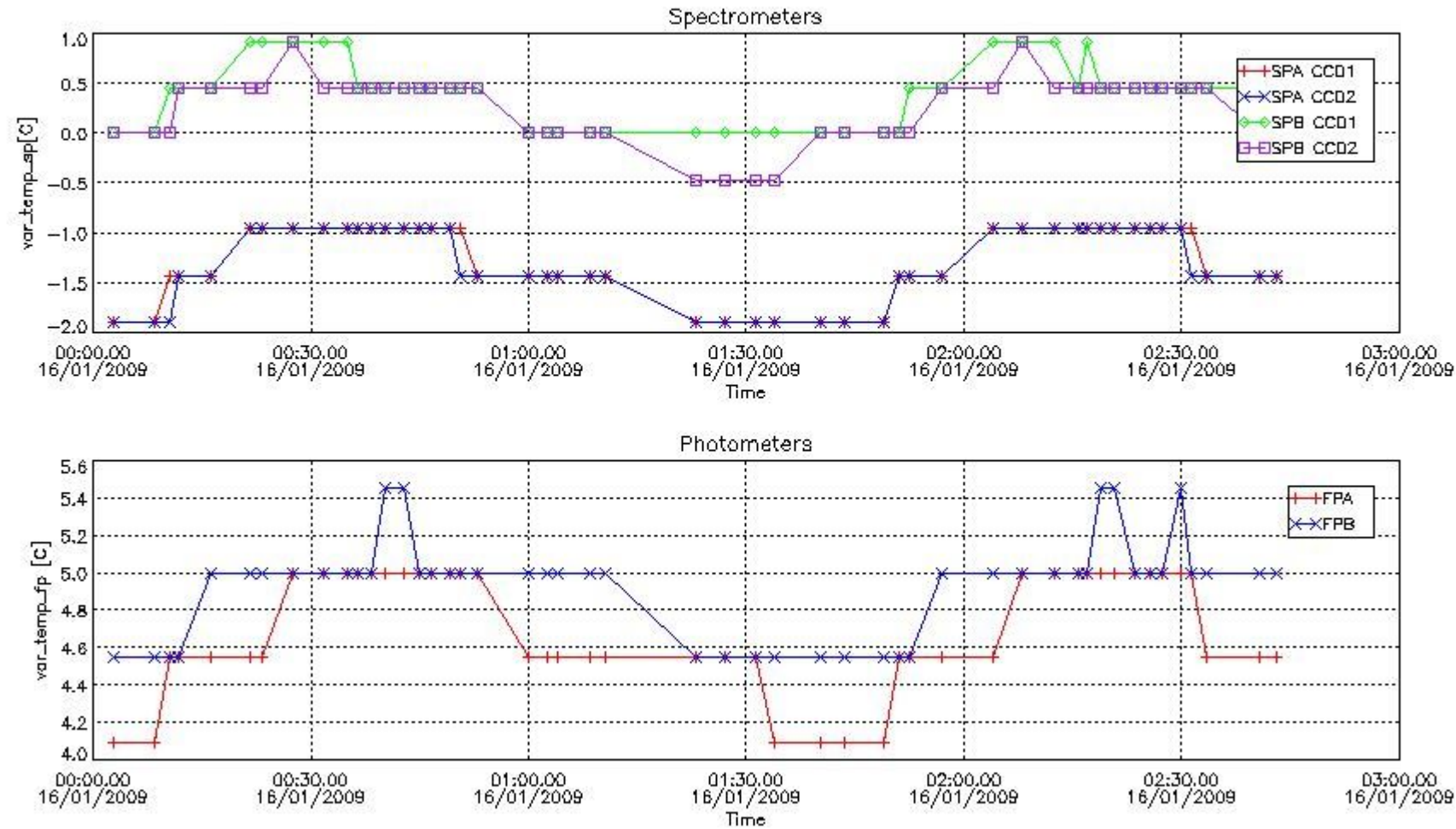
| UTC start time | Star name | Star ID | Orbit |
|----------------------|-----------|---------|-------|
| 16-JAN-2009 02:02:13 | GamLup | 131 | 35971 |
| 16-JAN-2009 23:50:07 | GamLup | 131 | 35984 |

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_1PNPDE20090116_000248_000000372075_00345_35970_8904.N1 | 16-JAN-2009 00:02:48 | Bright | 36.500 | 127 | 27Bet Her | 2.7810 | 4700.0 | 73 | 35970 | No |
| 2 | GOM_TRA_1PNPDE20090116_000822_000000562075_00345_35970_8905.N1 | 16-JAN-2009 00:08:22 | Bright | 56.000 | 102 | 24Alp Ser | 2.6000 | 4250.0 | 112 | 35970 | No |
| 3 | GOM_TRA_1PNPDE20090116_001029_000000442075_00345_35970_8906.N1 | 16-JAN-2009 00:10:29 | Bright | 43.500 | 120 | 1Del Oph | 2.7340 | 3200.0 | 87 | 35970 | No |
| 4 | GOM_TRA_1PNPDE20090116_001150_000000362075_00345_35970_8907.N1 | 16-JAN-2009 00:11:50 | Bright | 36.000 | 98 | 13Zet Oph | 2.5710 | 30000. | 72 | 35970 | No |
| 5 | GOM_TRA_1PNPDE20090116_001617_000000442075_00345_35970_9048.N1 | 16-JAN-2009 00:16:17 | Twilight | 44.000 | 16 | 21Alp Sco | 1.0200 | 3000.0 | 88 | 35970 | No |
| 6 | GOM_TRA_1PNPDE20090116_002134_000000422075_00345_35970_9049.N1 | 16-JAN-2009 00:21:34 | Dark | 41.500 | 131 | Gam Lup | 2.8000 | 26000. | 83 | 35970 | No |
| 7 | GOM_TRA_1PNPDE20090116_002321_000000402075_00345_35970_9050.N1 | 16-JAN-2009 00:23:21 | Dark | 40.000 | 109 | Bet Lup | 2.6770 | 26000. | 80 | 35970 | No |
| 8 | GOM_TRA_1PNPDE20090116_002725_000000522075_00346_35971_9051.N1 | 16-JAN-2009 00:27:25 | Dark | 51.500 | 4 | Alp1Cen | -0.010000 | 5800.0 | 103 | 35971 | No |
| 9 | GOM_TRA_1PNPDE20090116_003149_000000442075_00346_35971_9052.N1 | 16-JAN-2009 00:31:49 | Dark | 44.000 | 12 | Alp1Cru | 0.77500 | 30000. | 88 | 35971 | No |

| | | | | | | | | | | | |
|----|--|----------------------|----------------|--------|-----|-----------|-----------|--------|-----|-------|----|
| 10 | GOM_TRA_1PNPDE20090116_003502_000000392075_00346_35971_9053.N1 | 16-JAN-2009 00:35:02 | Dark | 39.000 | 124 | The Car | 2.7640 | 30000. | 78 | 35971 | No |
| 11 | GOM_TRA_1PNPDE20090116_003623_000000462075_00346_35971_9054.N1 | 16-JAN-2009 00:36:23 | Dark | 46.000 | 29 | Bet Car | 1.6720 | 10200. | 92 | 35971 | No |
| 12 | GOM_TRA_1PNPDE20090116_003819_000000442075_00346_35971_9055.N1 | 16-JAN-2009 00:38:19 | Dark | 43.500 | 71 | lot Car | 2.2460 | 7700.0 | 87 | 35971 | No |
| 13 | GOM_TRA_1PNPDE20090116_004011_000000402075_00346_35971_9056.N1 | 16-JAN-2009 00:40:11 | Dark | 39.500 | 46 | Del Vel | 1.9540 | 10600. | 79 | 35971 | No |
| 14 | GOM_TRA_1PNPDE20090116_004254_000000422075_00346_35971_9057.N1 | 16-JAN-2009 00:42:54 | Dark | 42.000 | 34 | Gam2Vel | 1.7930 | 23000. | 84 | 35971 | No |
| 15 | GOM_TRA_1PNPDE20090116_004502_000000442075_00346_35971_9058.N1 | 16-JAN-2009 00:45:02 | Dark | 44.000 | 70 | Zet Pup | 2.2460 | 39000. | 88 | 35971 | No |
| 16 | GOM_TRA_1PNPDE20090116_004642_000000432075_00346_35971_9059.N1 | 16-JAN-2009 00:46:42 | Straylight | 43.000 | 117 | Pi Pup | 2.7060 | 3800.0 | 86 | 35971 | No |
| 17 | GOM_TRA_1PNPDE20090116_004914_000000442075_00346_35971_9060.N1 | 16-JAN-2009 00:49:14 | Straylight | 44.000 | 23 | 21Eps CMa | 1.5020 | 26000. | 88 | 35971 | No |
| 18 | GOM_TRA_1PNPDE20090116_005039_000000402075_00346_35971_9061.N1 | 16-JAN-2009 00:50:39 | Straylight | 40.000 | 179 | 24Omi2CMa | 3.0320 | 24000. | 80 | 35971 | No |
| 19 | GOM_TRA_1PNPDE20090116_005252_000000492075_00346_35971_9062.N1 | 16-JAN-2009 00:52:52 | Straylight | 48.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 97 | 35971 | No |
| 20 | GOM_TRA_1PNPDE20090116_010002_000000492075_00346_35971_9063.N1 | 16-JAN-2009 01:00:02 | Twilight_stray | 49.000 | 14 | 58Alp Ori | 0.87000 | 3000.0 | 98 | 35971 | No |
| 21 | GOM_TRA_1PNPDE20090116_010231_000000462075_00346_35971_9064.N1 | 16-JAN-2009 01:02:31 | Bright | 45.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 91 | 35971 | No |
| 22 | GOM_TRA_1PNPDE20090116_010359_000000372075_00346_35971_9065.N1 | 16-JAN-2009 01:03:59 | Bright | 36.500 | 176 | 23Zet Tau | 3.0200 | 22000. | 73 | 35971 | No |
| 23 | GOM_TRA_1PNPDE20090116_010823_000000362075_00346_35971_9066.N1 | 16-JAN-2009 01:08:23 | Bright | 36.000 | 107 | 37The Aur | 2.6490 | 11000. | 72 | 35971 | No |
| 24 | GOM_TRA_1PNPDE20090116_011033_000000382075_00346_35971_9067.N1 | 16-JAN-2009 01:10:33 | Bright | 37.500 | 42 | 34Bet Aur | 1.9000 | 10200. | 75 | 35971 | No |
| 25 | GOM_TRA_1PNPDE20090116_012307_000000372075_00346_35971_9068.N1 | 16-JAN-2009 01:23:07 | Bright | 37.000 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 74 | 35971 | No |
| 26 | GOM_TRA_1PNPDE20090116_012703_000000402075_00346_35971_9069.N1 | 16-JAN-2009 01:27:03 | Bright | 40.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 80 | 35971 | No |
| 27 | GOM_TRA_1PNPDE20090116_013123_000000392075_00346_35971_9070.N1 | 16-JAN-2009 01:31:23 | Bright | 39.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 78 | 35971 | No |
| 28 | GOM_TRA_1PNPDE20090116_013359_000000382075_00346_35971_9071.N1 | 16-JAN-2009 01:33:59 | Bright | 38.000 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 76 | 35971 | No |
| 29 | GOM_TRA_1PNPDE20090116_014017_000000382075_00346_35971_9072.N1 | 16-JAN-2009 01:40:17 | Bright | 37.500 | 133 | 40Zet Her | 2.8070 | 6000.0 | 75 | 35971 | No |
| 30 | GOM_TRA_1PNPDE20090116_014324_000000382075_00346_35971_9073.N1 | 16-JAN-2009 01:43:24 | Bright | 37.500 | 127 | 27Bet Her | 2.7810 | 4700.0 | 75 | 35971 | No |
| 31 | GOM_TRA_1PNPDE20090116_014858_000000472075_00346_35971_9074.N1 | 16-JAN-2009 01:48:58 | Bright | 46.500 | 102 | 24Alp Ser | 2.6000 | 4250.0 | 93 | 35971 | No |
| 32 | GOM_TRA_1PNPDE20090116_015105_000000562075_00346_35971_9075.N1 | 16-JAN-2009 01:51:05 | Bright | 56.000 | 120 | 1Del Oph | 2.7340 | 3200.0 | 112 | 35971 | No |
| 33 | GOM_TRA_1PNPDE20090116_015226_000000472075_00346_35971_9197.N1 | 16-JAN-2009 01:52:26 | Bright | 46.500 | 98 | 13Zet Oph | 2.5710 | 30000. | 93 | 35971 | No |
| 34 | GOM_TRA_1PNPDE20090116_015654_000000462075_00346_35971_9198.N1 | 16-JAN-2009 01:56:54 | Twilight_stray | 45.500 | 16 | 21Alp Sco | 1.0200 | 3000.0 | 91 | 35971 | No |
| 35 | GOM_TRA_1PNPDE20090116_020357_000000412075_00346_35971_9199.N1 | 16-JAN-2009 02:03:57 | Dark | 41.000 | 109 | Bet Lup | 2.6770 | 26000. | 82 | 35971 | No |
| 36 | GOM_TRA_1PNPDE20090116_020801_000000412075_00347_35972_9200.N1 | 16-JAN-2009 02:08:01 | Dark | 41.000 | 4 | Alp1Cen | -0.010000 | 5800.0 | 82 | 35972 | No |
| 37 | GOM_TRA_1PNPDE20090116_021225_000000402075_00347_35972_9201.N1 | 16-JAN-2009 02:12:25 | Dark | 40.000 | 12 | Alp1Cru | 0.77500 | 30000. | 80 | 35972 | No |
| 38 | GOM_TRA_1PNPDE20090116_021539_000000392075_00347_35972_9202.N1 | 16-JAN-2009 02:15:39 | Dark | 38.500 | 124 | The Car | 2.7640 | 30000. | 77 | 35972 | No |
| 39 | GOM_TRA_1PNPDE20090116_021659_000000382075_00347_35972_9203.N1 | 16-JAN-2009 02:16:59 | Dark | 37.500 | 29 | Bet Car | 1.6720 | 10200. | 75 | 35972 | No |
| 40 | GOM_TRA_1PNPDE20090116_021856_000000402075_00347_35972_9204.N1 | 16-JAN-2009 02:18:56 | Dark | 39.500 | 71 | lot Car | 2.2460 | 7700.0 | 79 | 35972 | No |
| 41 | GOM_TRA_1PNPDE20090116_022048_000000382075_00347_35972_9205.N1 | 16-JAN-2009 02:20:48 | Dark | 38.000 | 46 | Del Vel | 1.9540 | 10600. | 76 | 35972 | No |
| 42 | GOM_TRA_1PNPDE20090116_022330_000000412075_00347_35972_9206.N1 | 16-JAN-2009 02:23:30 | Dark | 41.000 | 34 | Gam2Vel | 1.7930 | 23000. | 82 | 35972 | No |
| 43 | GOM_TRA_1PNPDE20090116_022539_000000412075_00347_35972_9207.N1 | 16-JAN-2009 02:25:39 | Dark | 41.000 | 70 | Zet Pup | 2.2460 | 39000. | 82 | 35972 | No |
| 44 | GOM_TRA_1PNPDE20090116_022718_000000462075_00347_35972_9208.N1 | 16-JAN-2009 02:27:18 | Straylight | 46.000 | 117 | Pi Pup | 2.7060 | 3800.0 | 92 | 35972 | No |
| 45 | GOM_TRA_1PNPDE20090116_022951_000000432075_00347_35972_9209.N1 | 16-JAN-2009 02:29:51 | Straylight | 43.000 | 23 | 21Eps CMa | 1.5020 | 26000. | 86 | 35972 | No |
| 46 | GOM_TRA_1PNPDE20090116_023116_000000412075_00347_35972_9210.N1 | 16-JAN-2009 02:31:16 | Straylight | 40.500 | 179 | 24Omi2CMa | 3.0320 | 24000. | 81 | 35972 | No |
| 47 | GOM_TRA_1PNPDE20090116_023329_000000452075_00347_35972_9211.N1 | 16-JAN-2009 02:33:29 | Straylight | 45.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 90 | 35972 | No |
| 48 | GOM_TRA_1PNPDE20090116_024039_000000522075_00347_35972_9212.N1 | 16-JAN-2009 02:40:39 | Twilight_stray | 51.500 | 14 | 58Alp Ori | 0.87000 | 3000.0 | 103 | 35972 | No |
| 49 | GOM_TRA_1PNPDE20090116_024306_000000532075_00347_35972_9213.N1 | 16-JAN-2009 02:43:06 | Bright | 53.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 106 | 35972 | No |

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



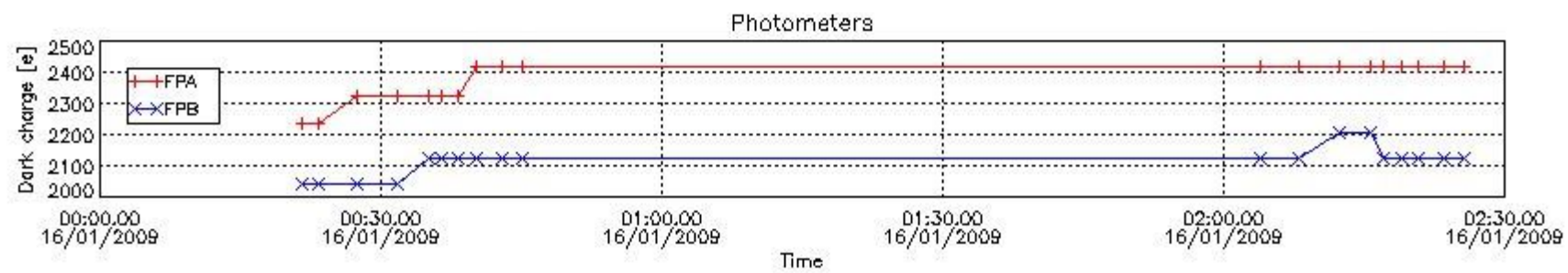
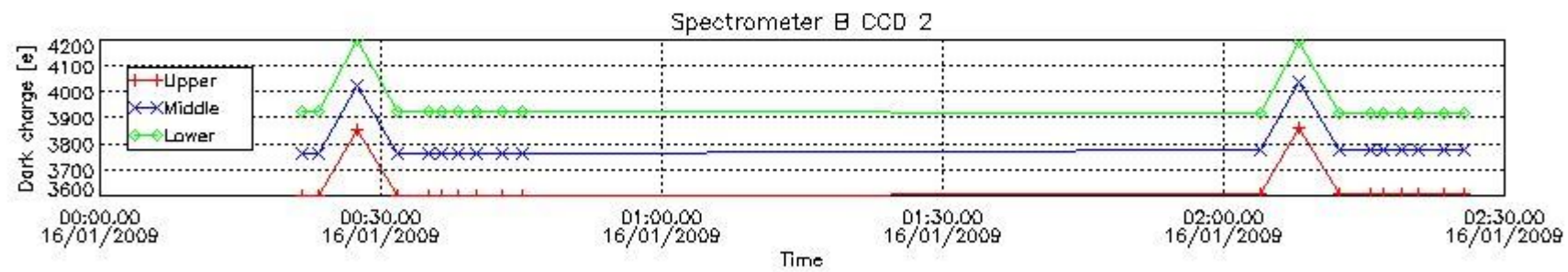
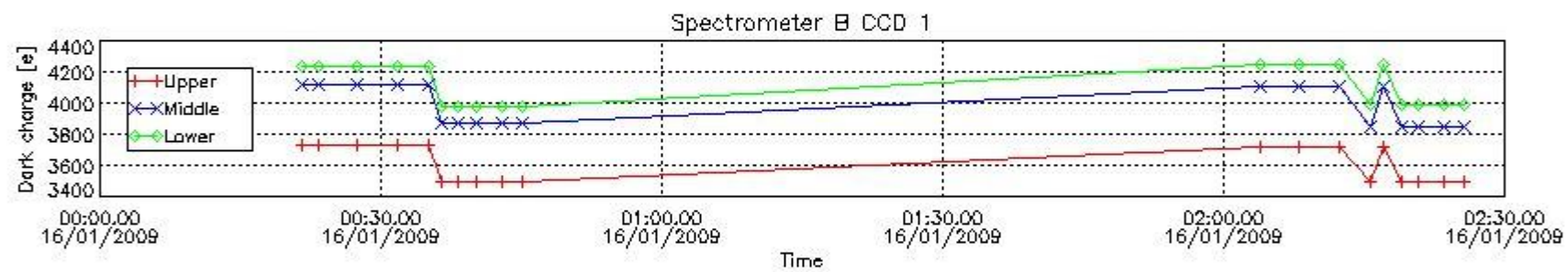
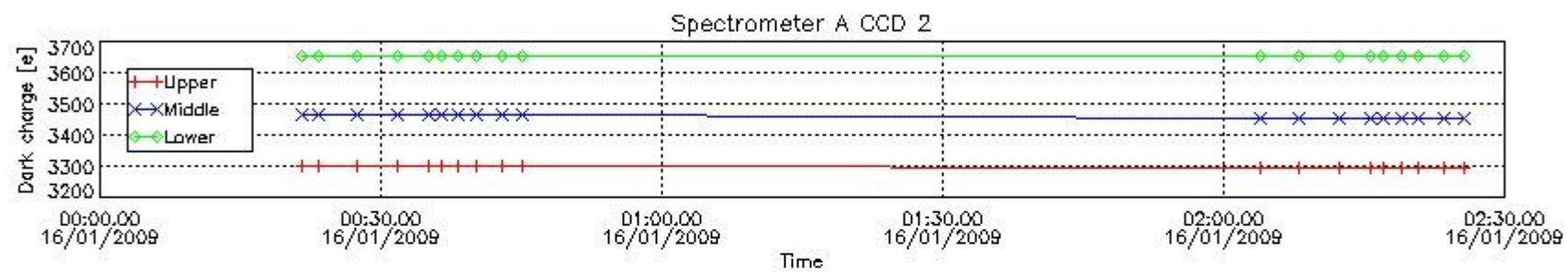
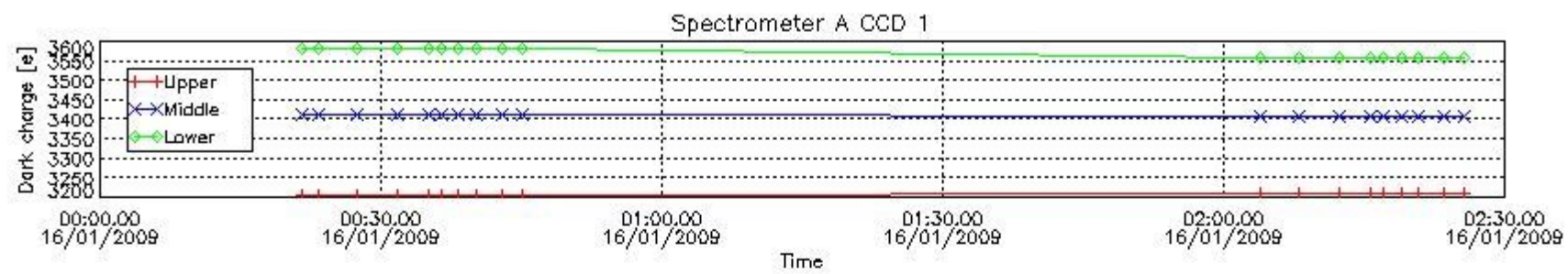
4. Overview of dark signal processing per product

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



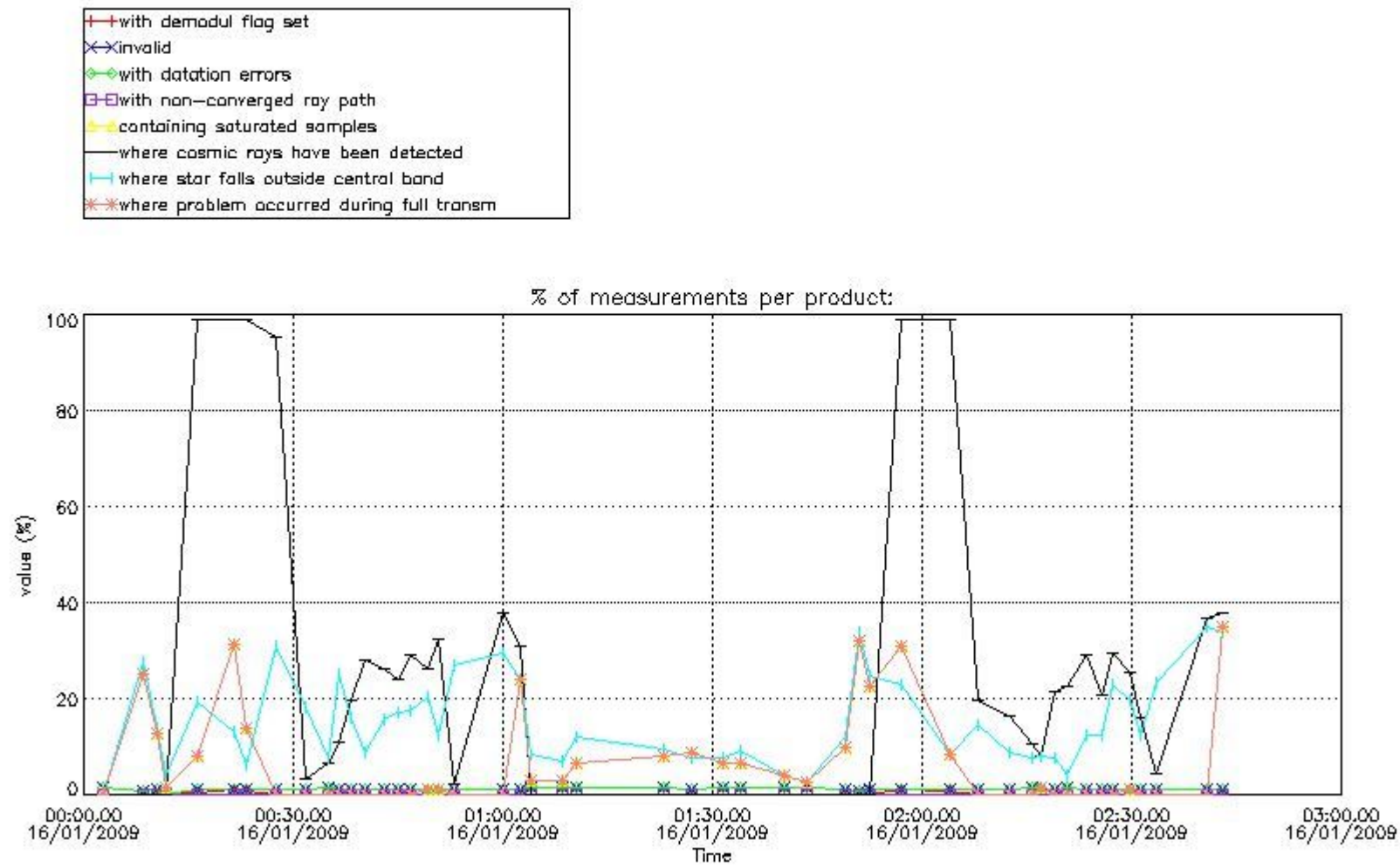
5. Demodulation flag and quality information monitoring

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.

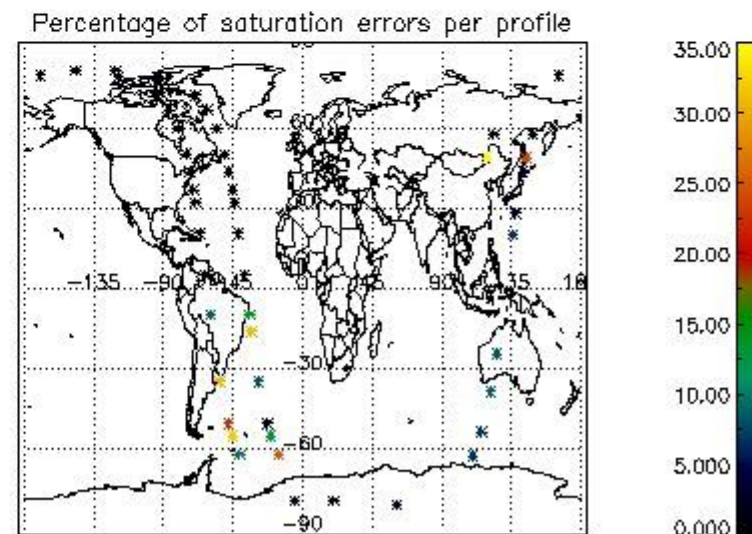
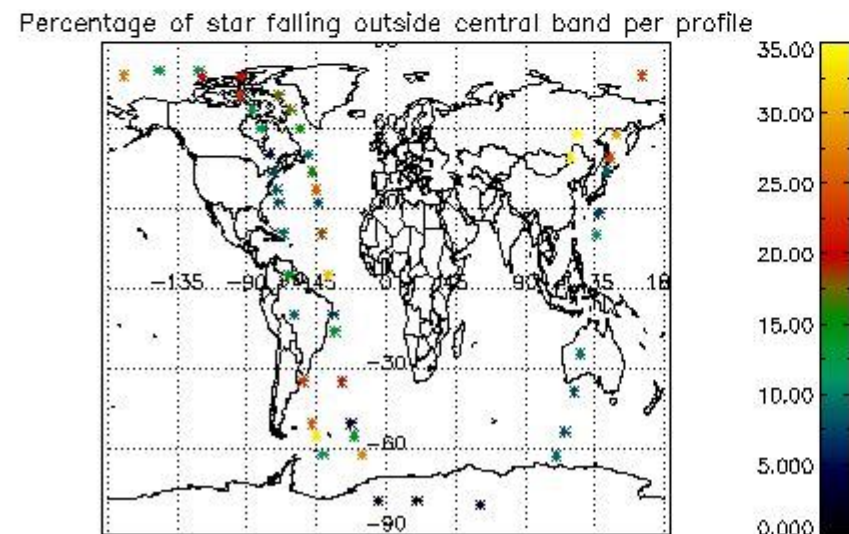
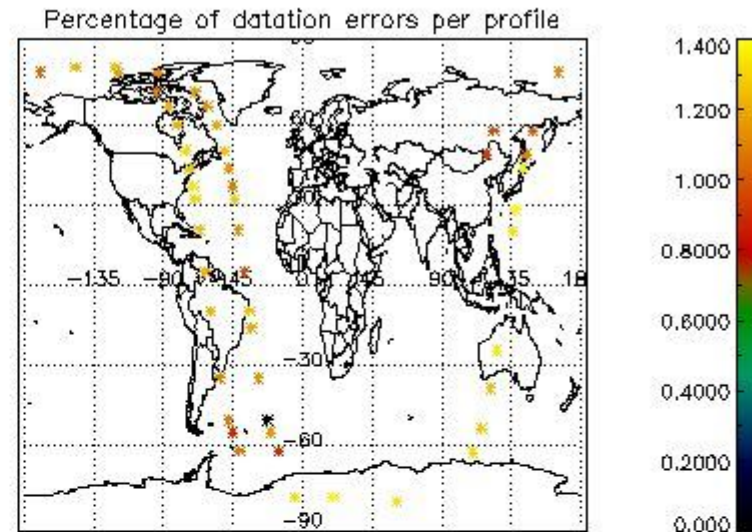
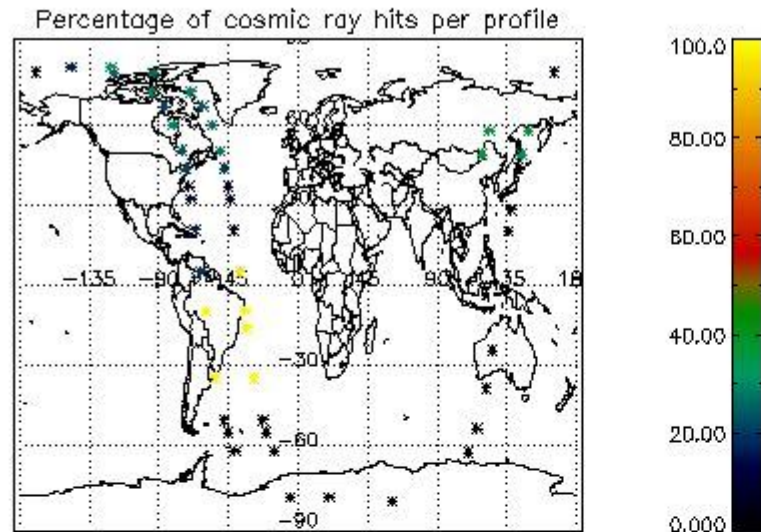
5.1 Percentage of products during reporting period with:

| | |
|---|-----------|
| At least one measurement with demodulation flag set: | 32.6531 % |
| 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)



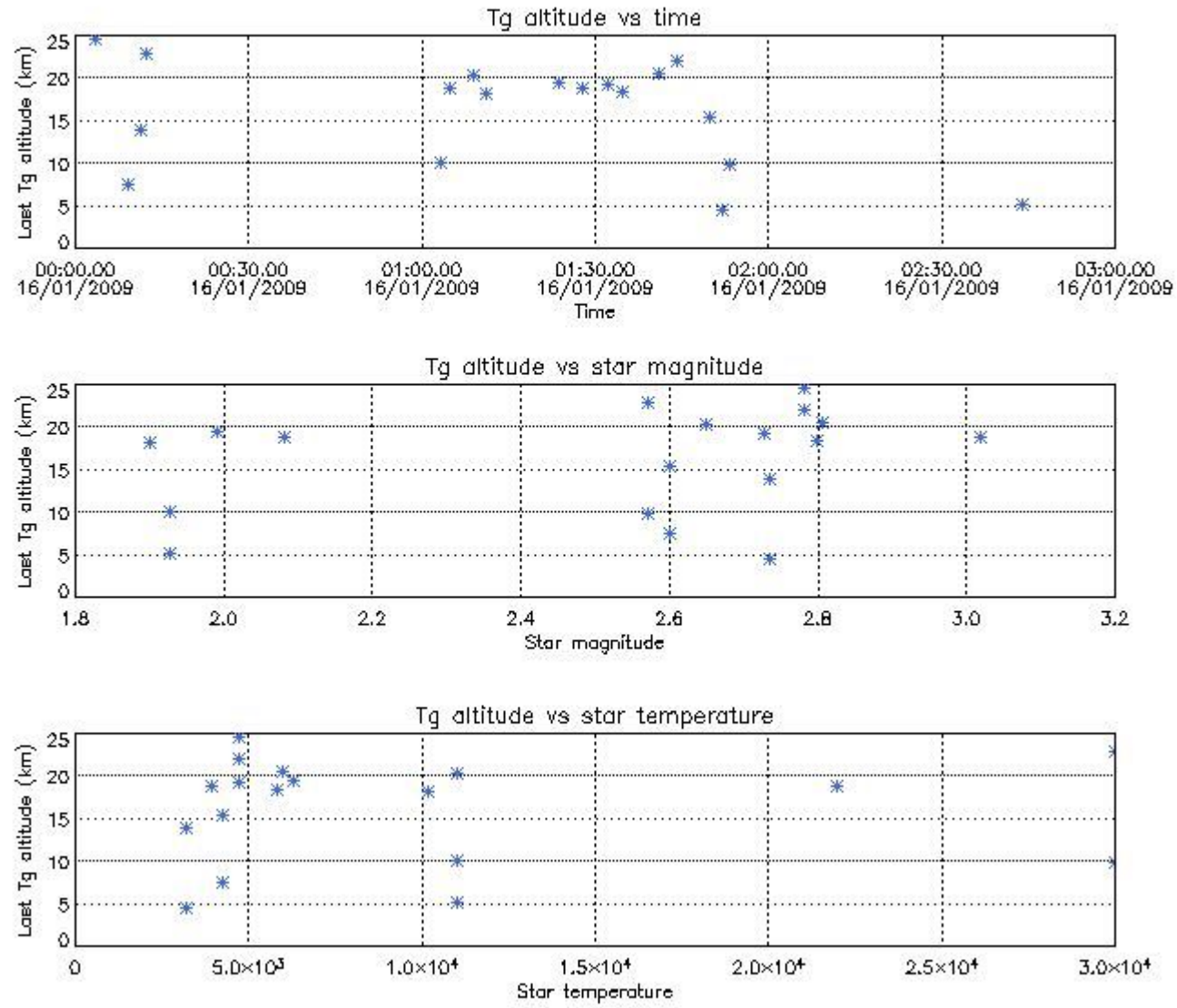
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean: | 16.376 | 16.074 | NaN |
| St. deviation: | 4.2774 | 6.1478 | NaN |
| Maximum: | 21.048 | 24.506 | NaN |
| Minimum: | 4.4928 | 4.4223 | NaN |
| Number of data: | 19.000 | 18.000 | NaN |

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

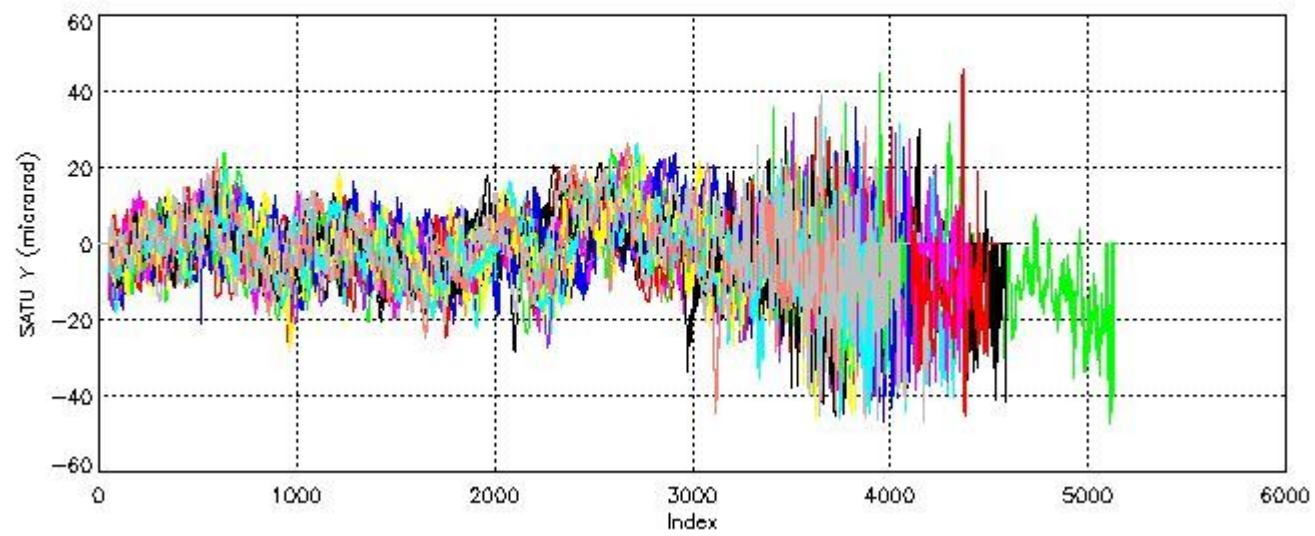
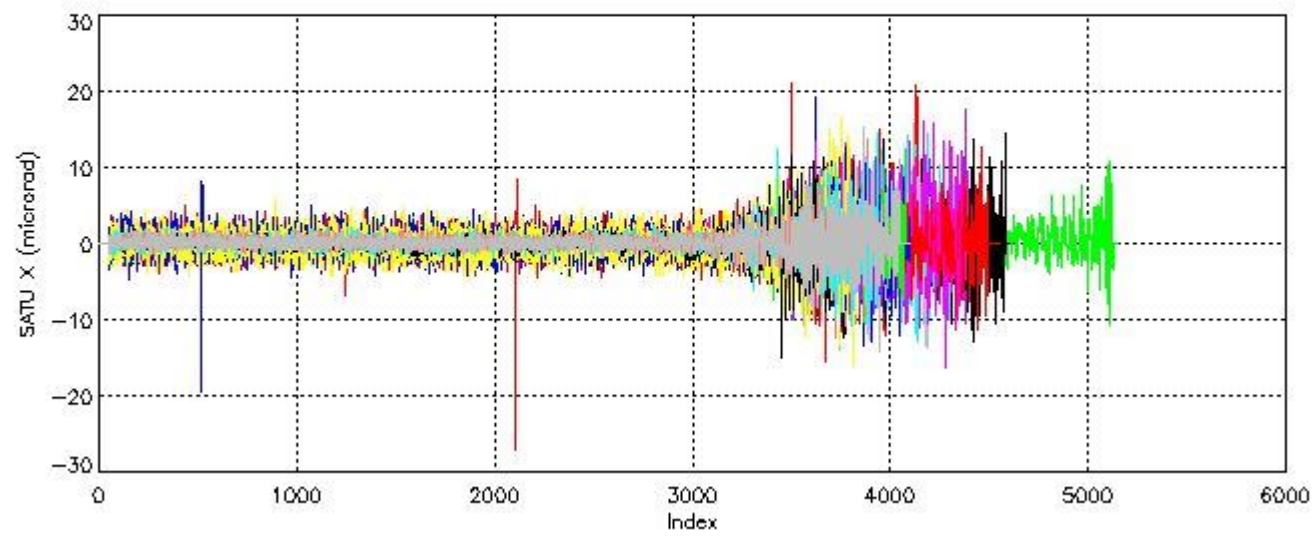


7. Star Acquisition and Tracking Unit (SATU)

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: | 0.14398 | 0.25240 | 0.071897 | -0.28091 |
| St. deviation: | 0.76133 | 6.3892 | 0.78347 | 6.6886 |
| Maximum: | 8.2000 | 23.700 | 4.6000 | 21.900 |
| Minimum: | -19.400 | -20.800 | -5.5000 | -24.100 |

| | | | | |
|-----------------|--------|--------|--------|--------|
| Number of data: | 17350. | 17350. | 16150. | 16150. |
|-----------------|--------|--------|--------|--------|

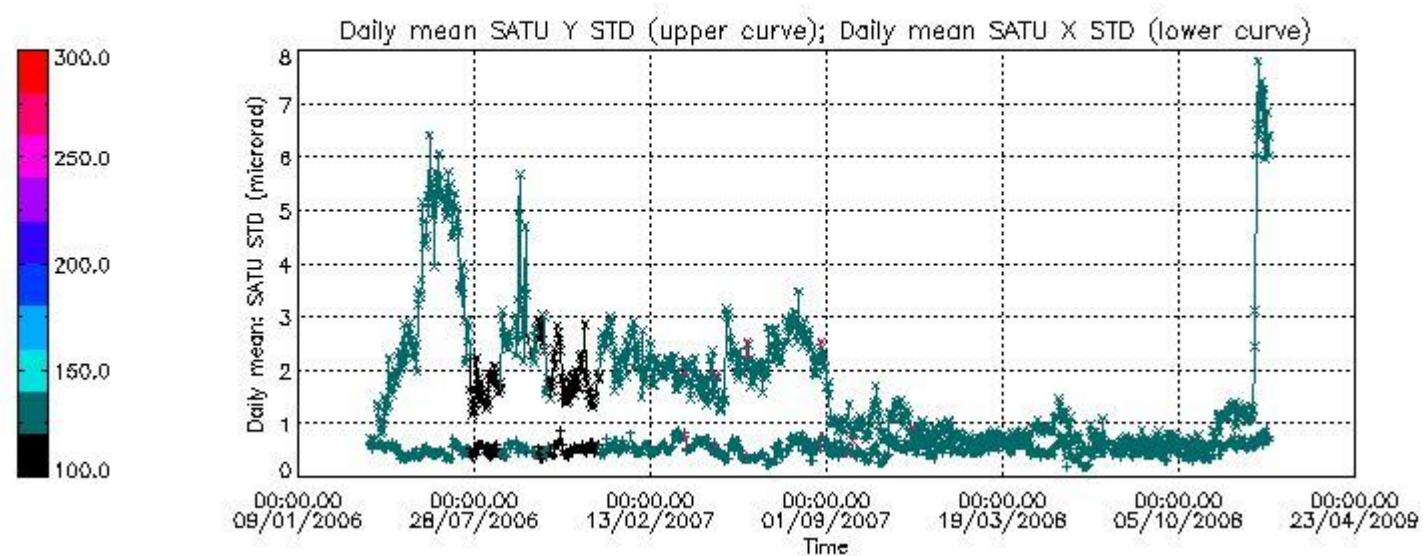
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

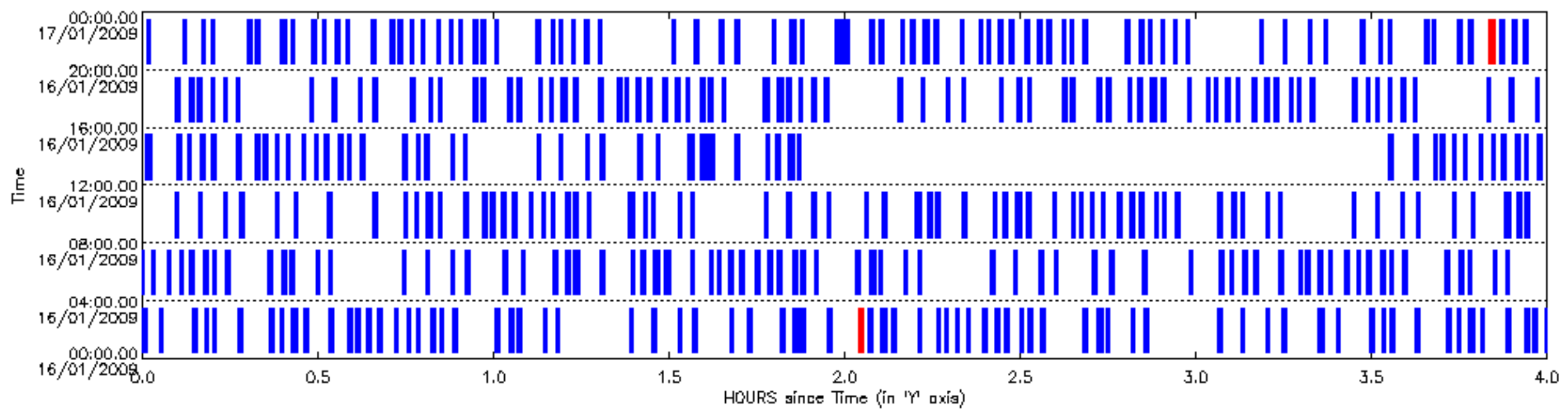
Lower curve: STD of SATU X axis

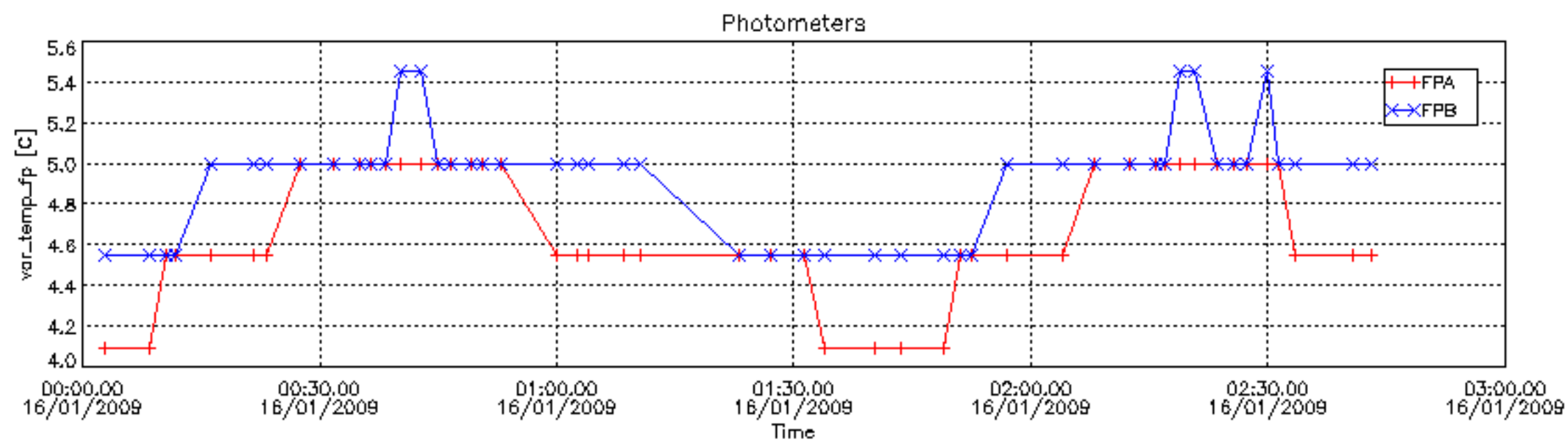
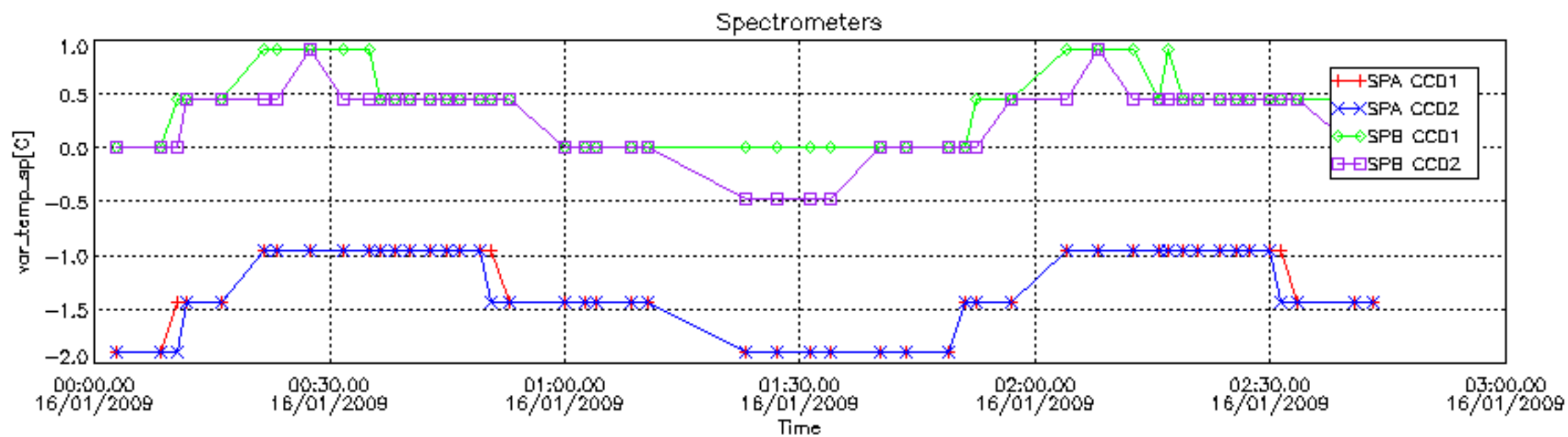


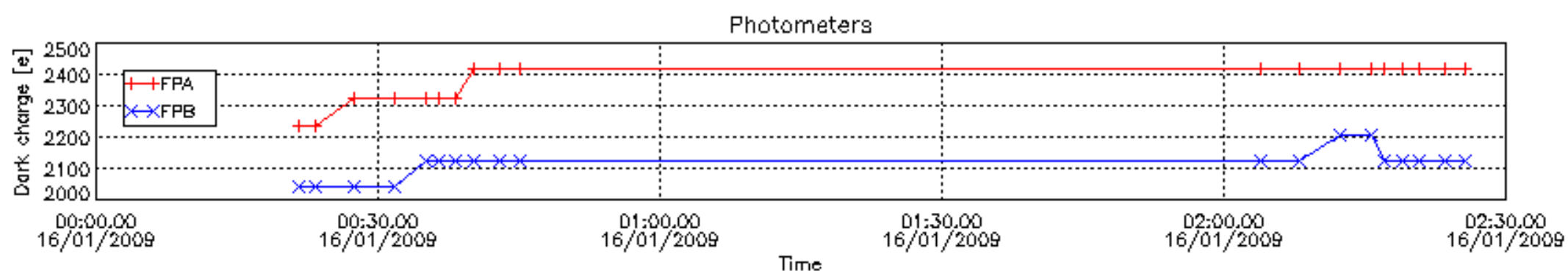
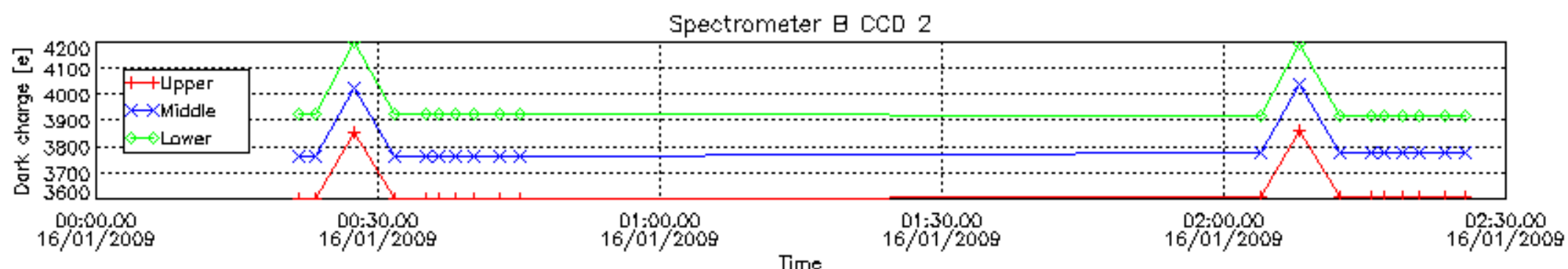
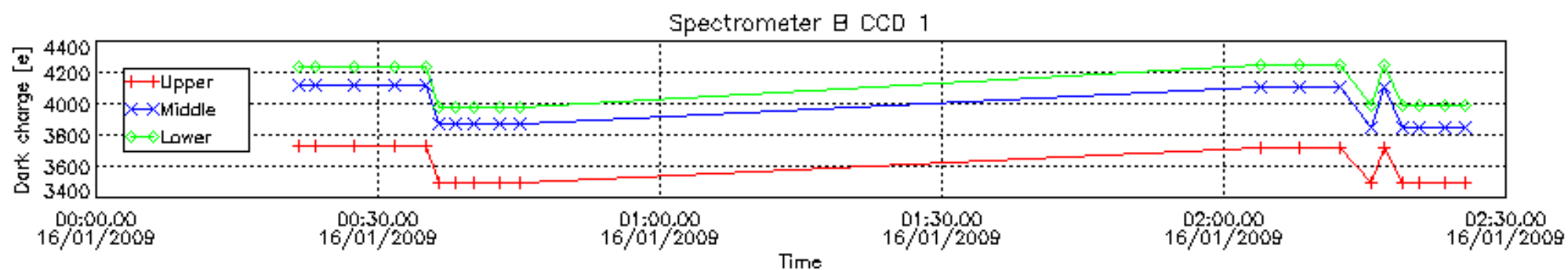
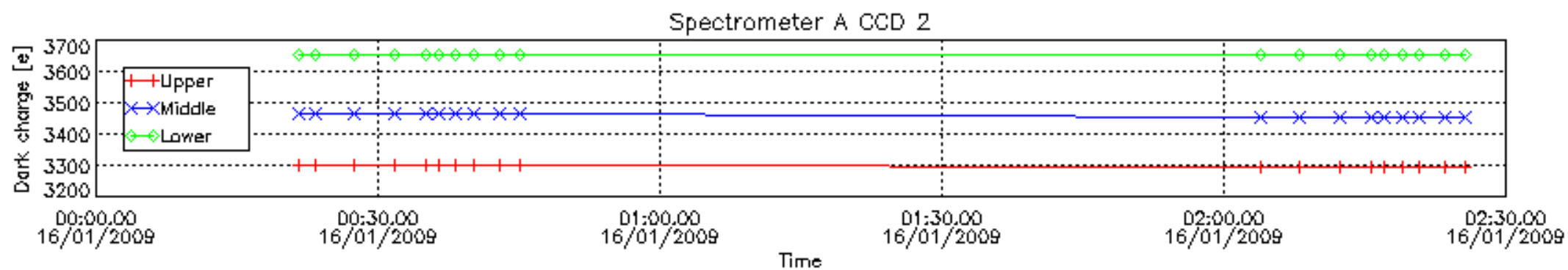
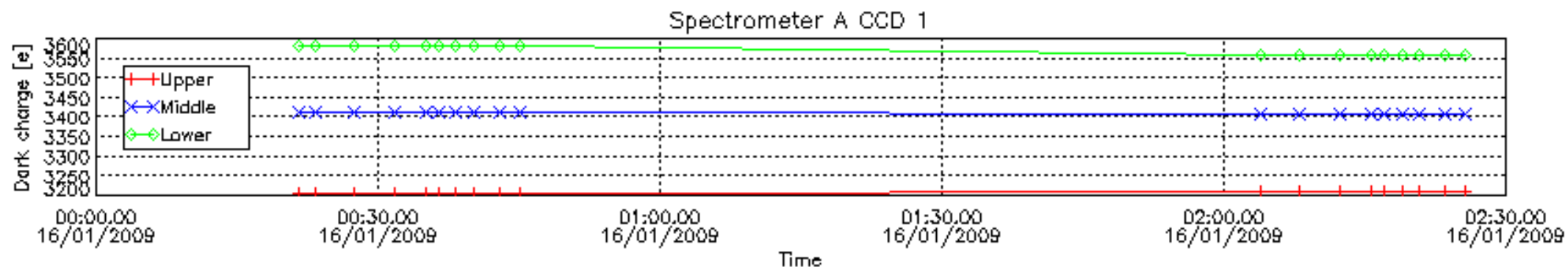
8. Auxiliary Data Files used for the production reported in section 2.4

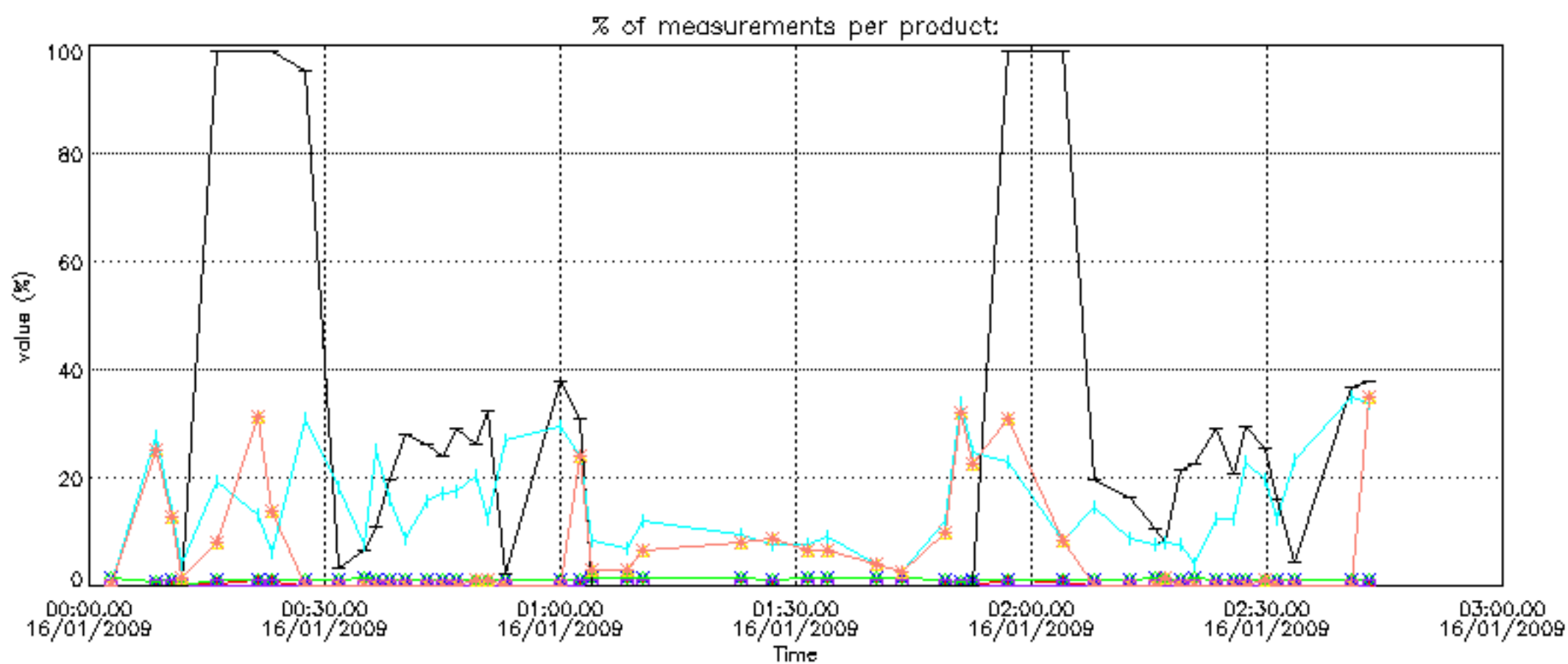
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000 | 1 | 16-JAN-2009 00:02:48 |
| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20090113_094413_20090111_000000_20100101_000000 | 1 | 16-JAN-2009 00:02:48 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000 | 1 | 16-JAN-2009 00:02:48 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 16-JAN-2009 00:02:48 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000 | 1 | 16-JAN-2009 00:02:48 |
| ECMWF_FILE | AUX_ECF_AXNECM20090115_064110_20090115_210000_20090116_090000 | 1 | 16-JAN-2009 00:02:48 |
| OPTIONAL_ECMWF_FILE | MISSING | 1 | 16-JAN-2009 00:02:48 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090115_204630_000060572075_00343_35968_7170.N1 | 1 | 16-JAN-2009 00:02:48 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090115_223246_000057382075_00344_35969_7171.N1 | 5 | 16-JAN-2009 00:16:17 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090116_000824_000057382075_00345_35970_7172.N1 | 33 | 16-JAN-2009 01:52:26 |

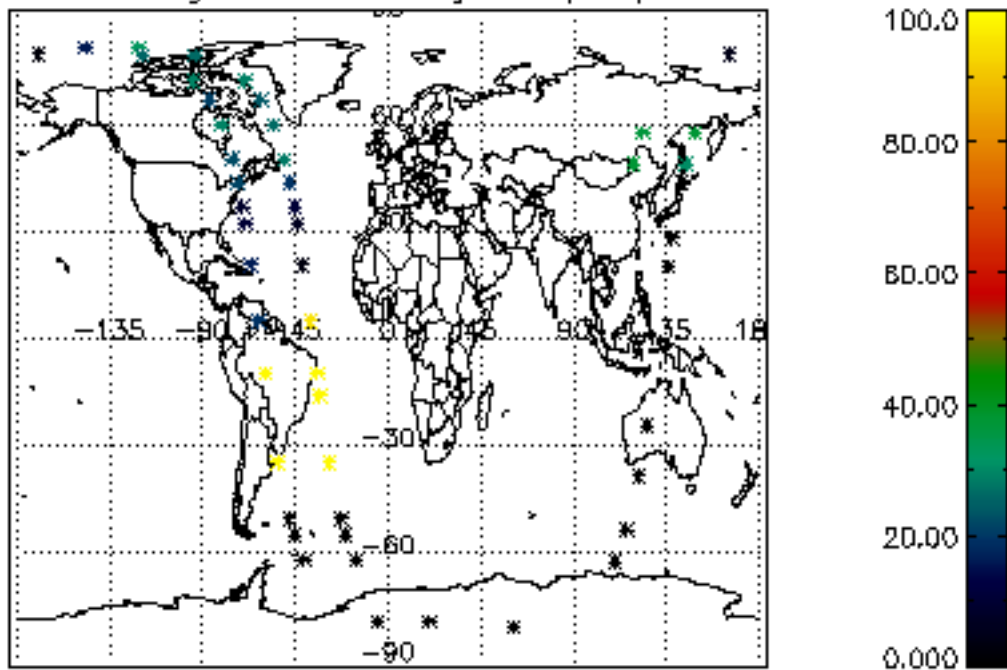




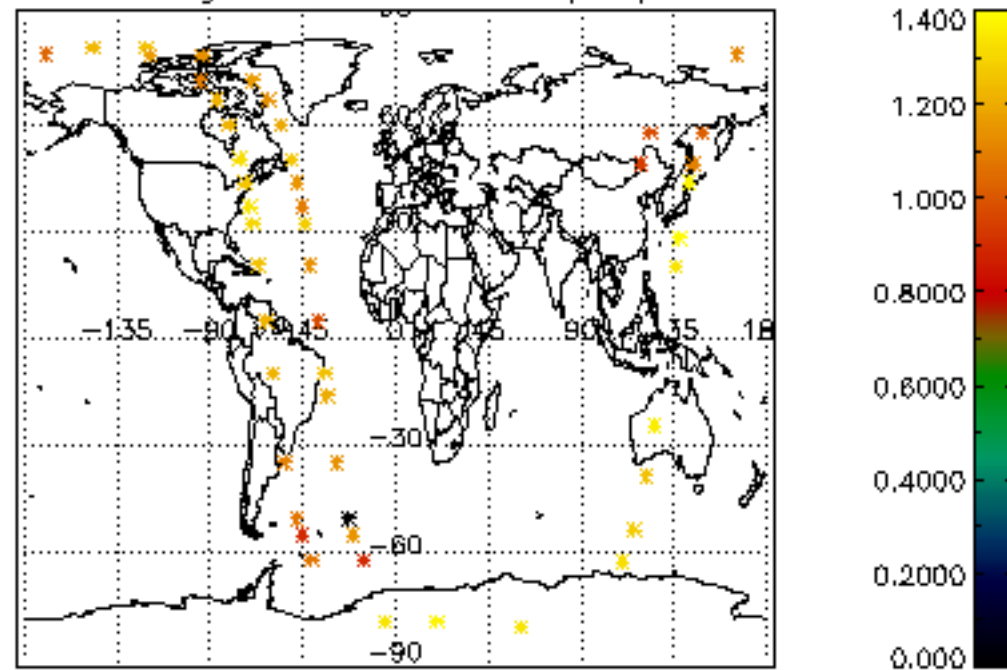




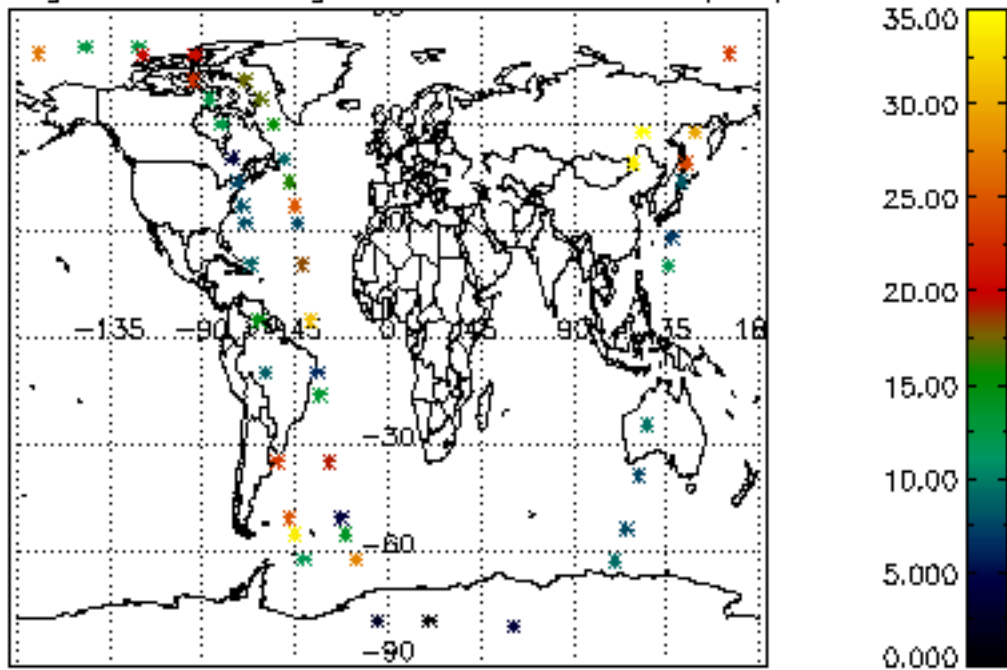
Percentage of cosmic ray hits per profile



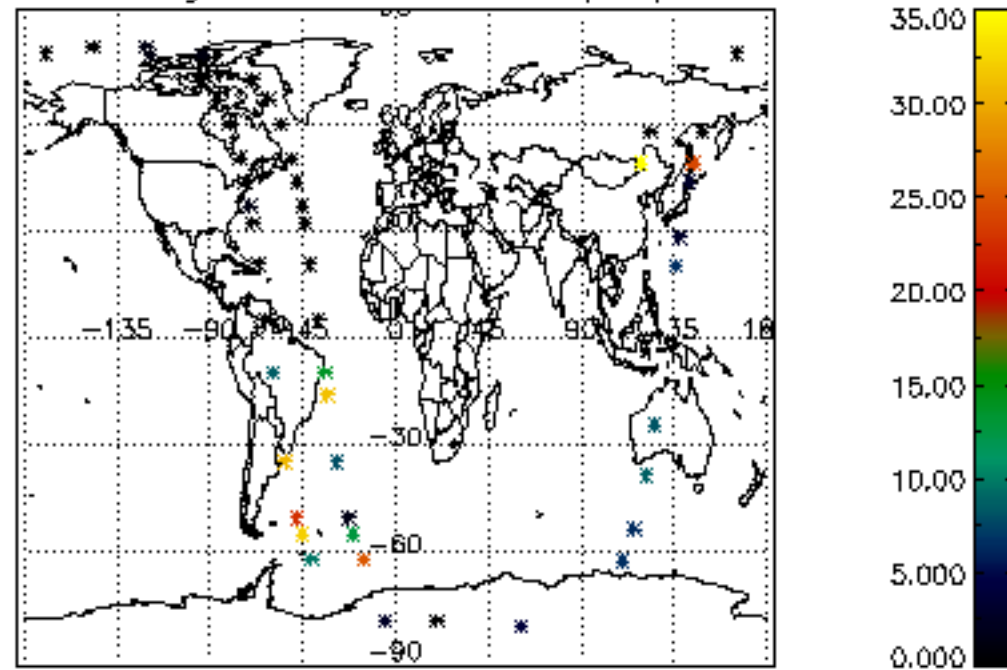
Percentage of datation errors per profile



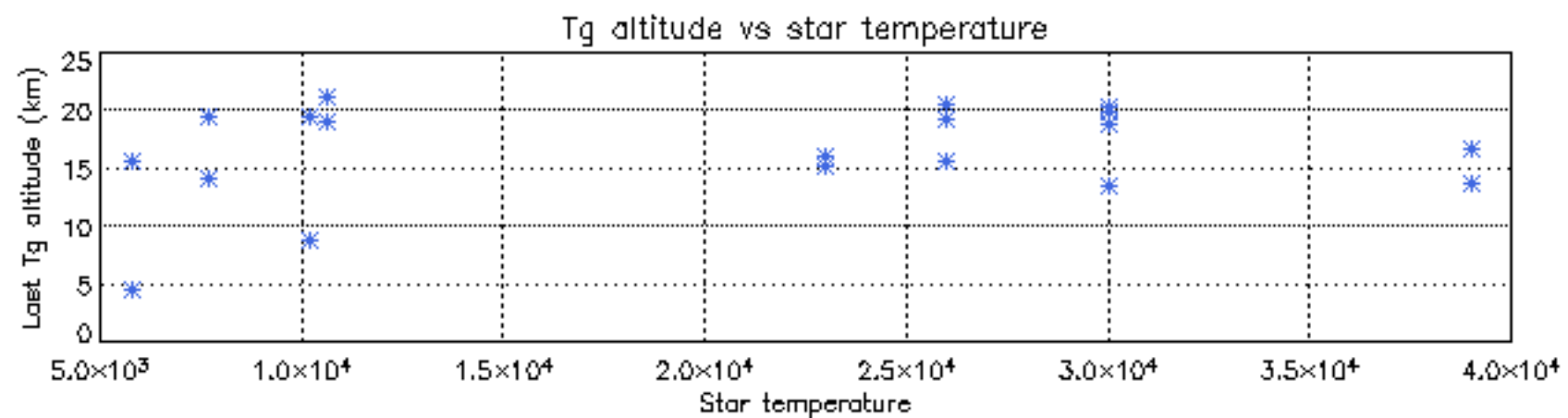
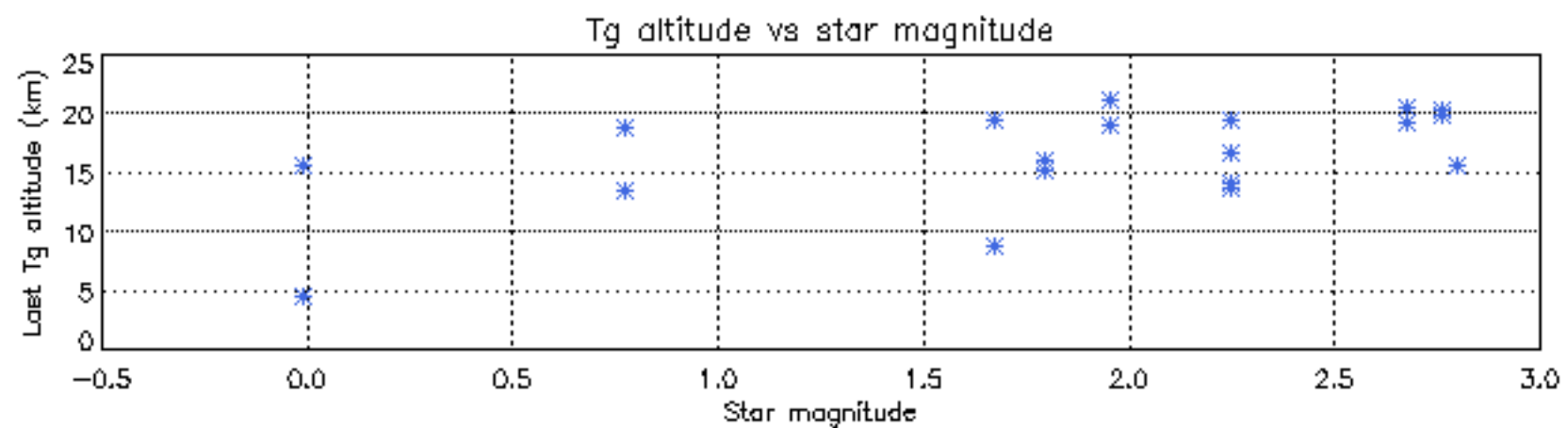
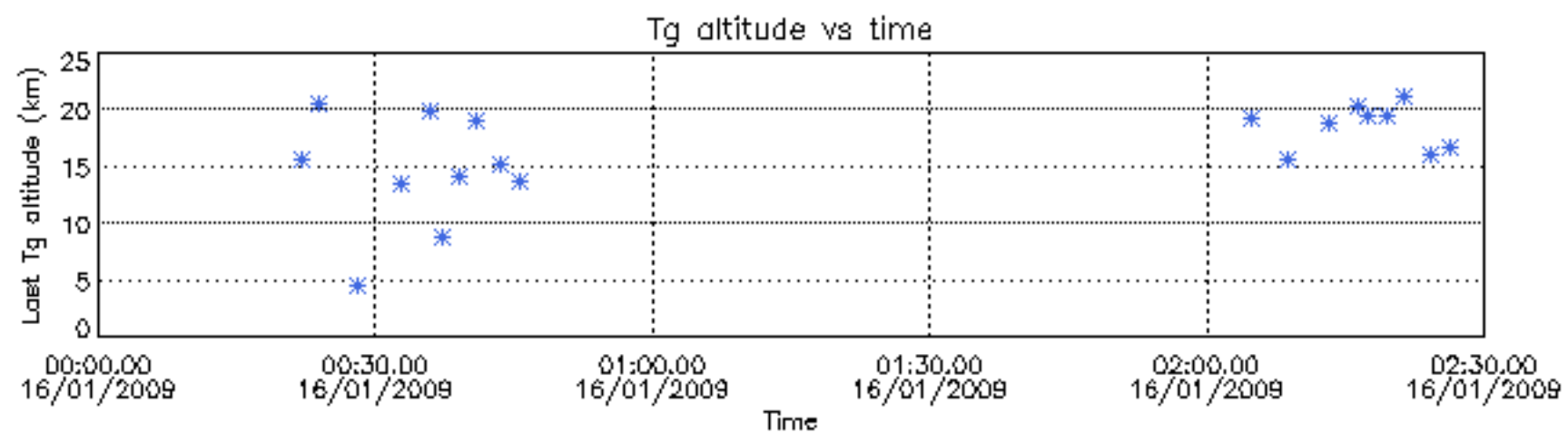
Percentage of star falling outside central band per profile



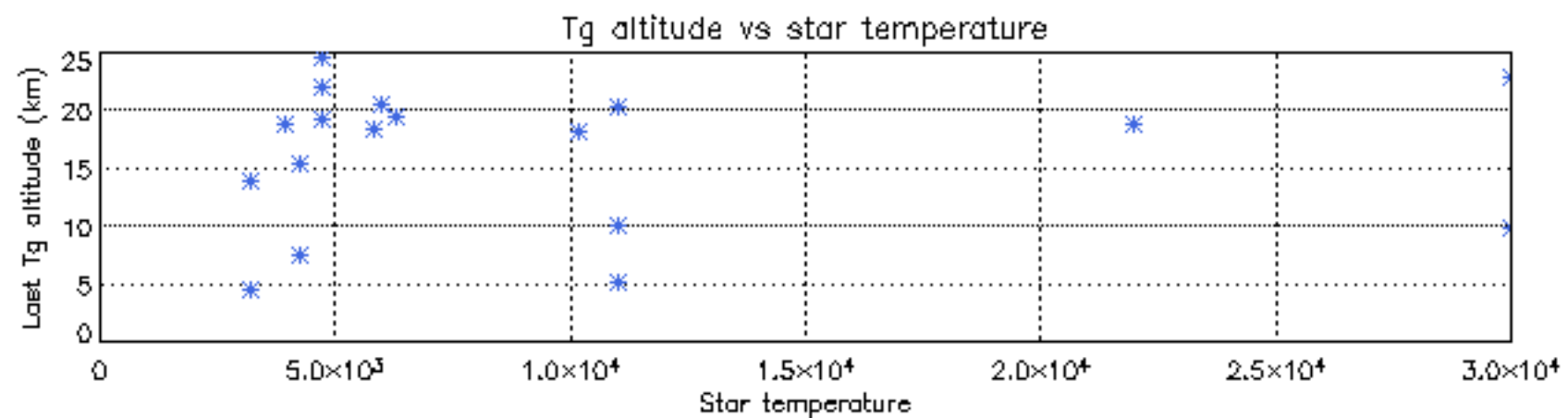
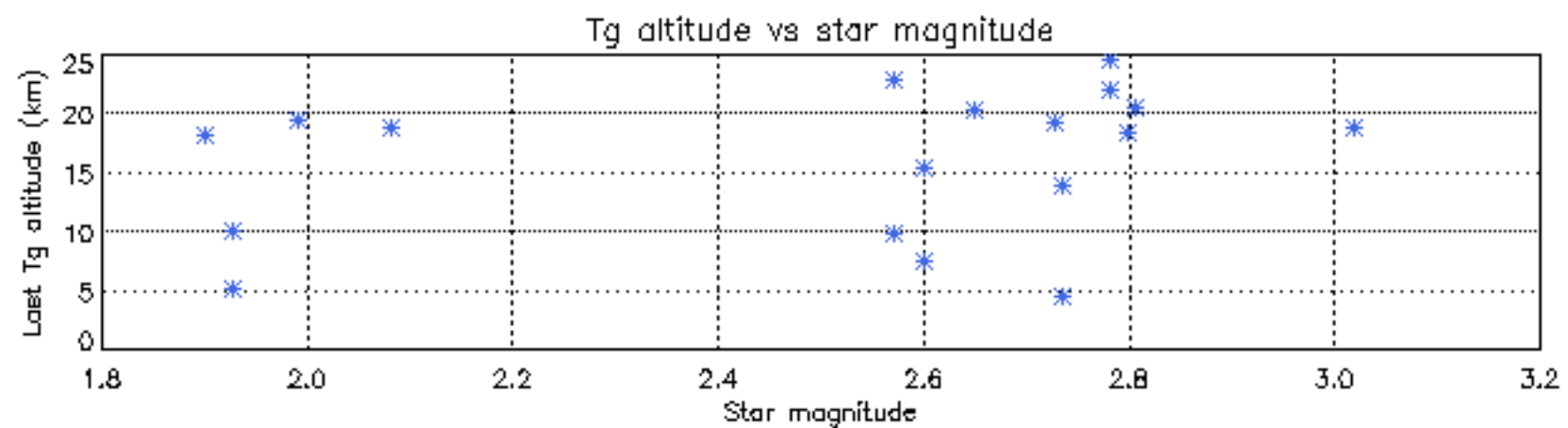
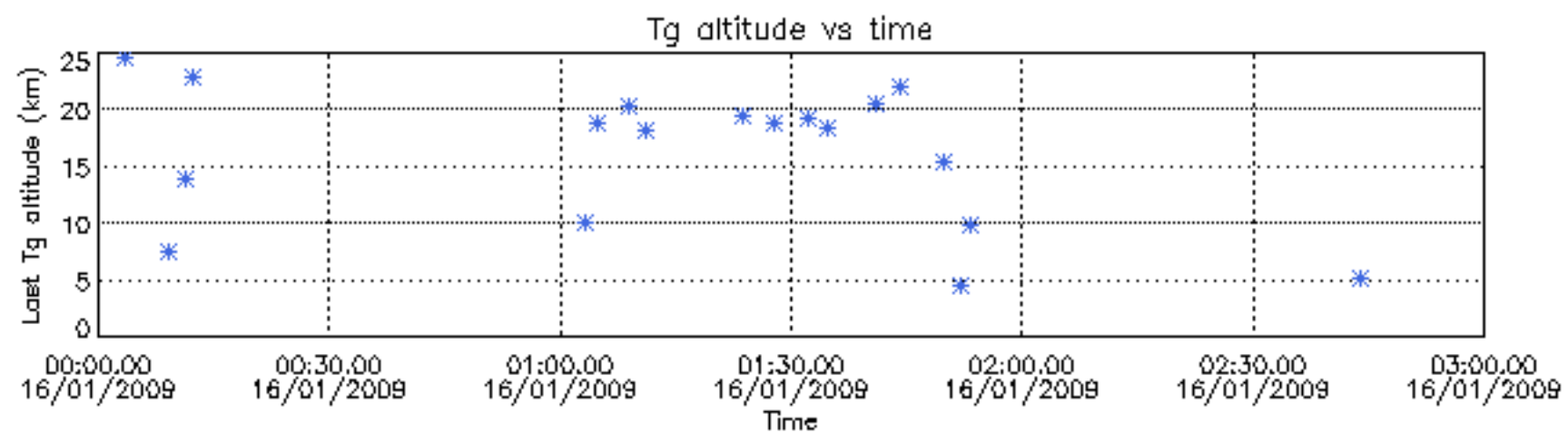
Percentage of saturation errors per profile

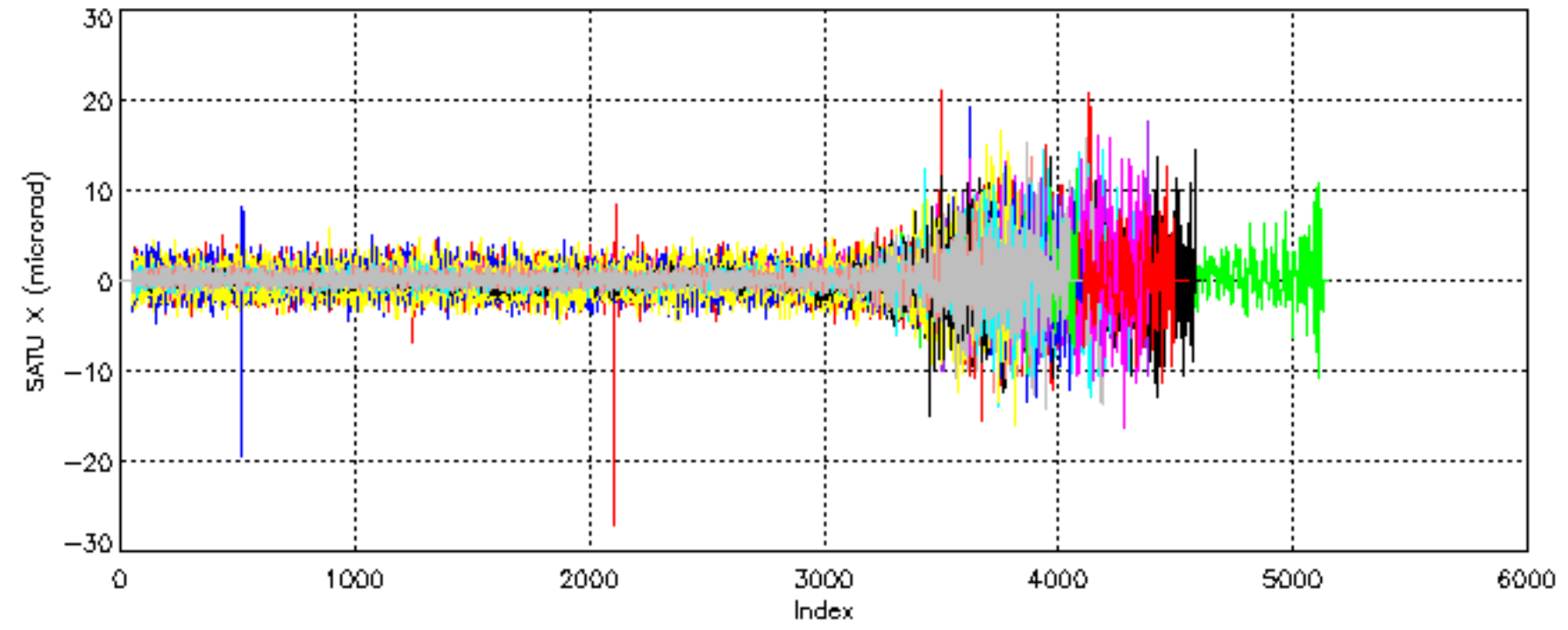


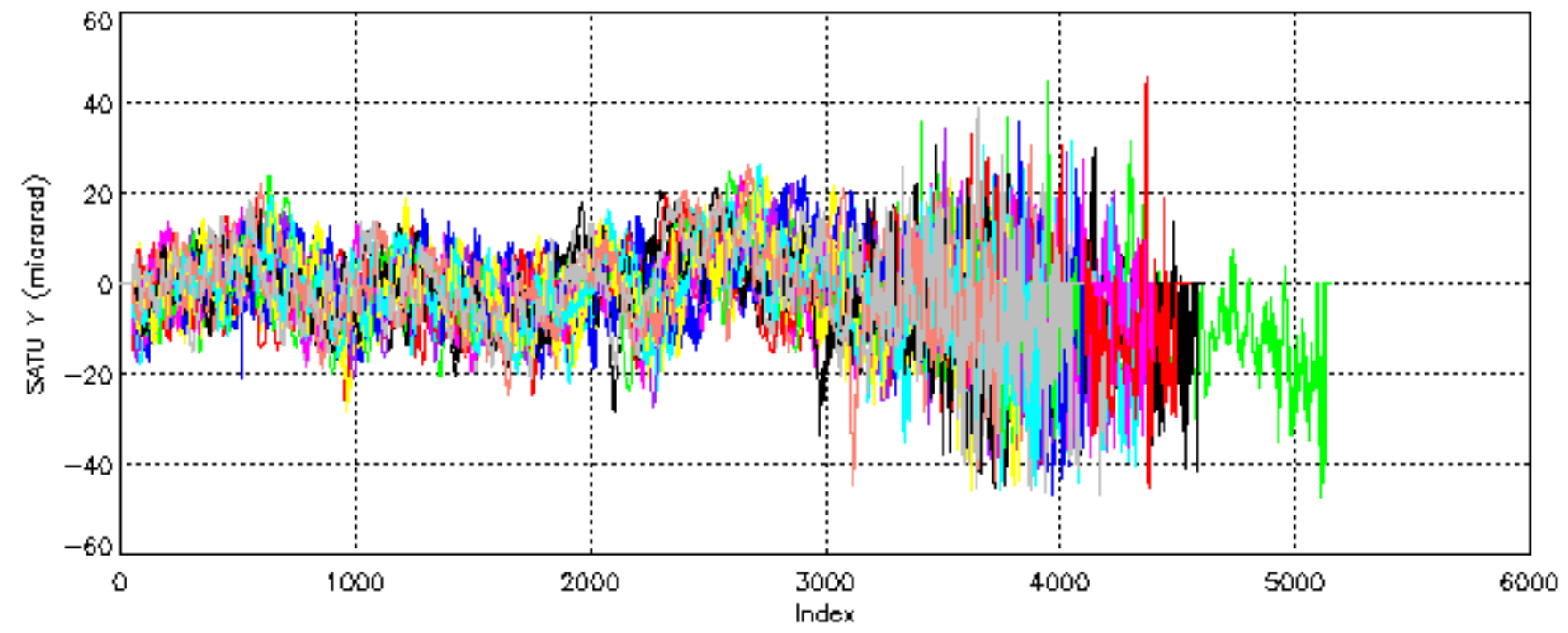
Tangent altitude at which the star is lost

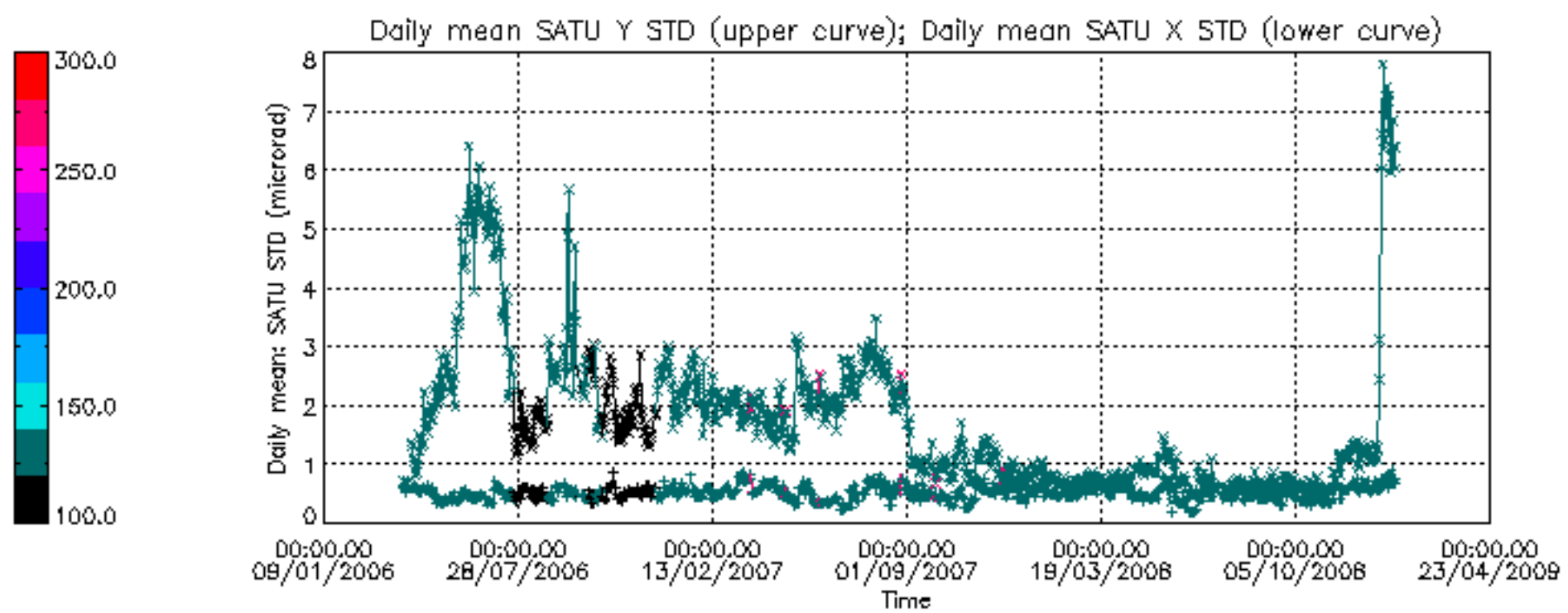


Tangent altitude at which the star is lost









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 3; 213.9; 01-JAN-2009 01:41:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35757
 4; 432.4; 01-JAN-2009 01:45:07; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;35757
 5; 548.6; 01-JAN-2009 01:47:03; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;35757
 6; 632.8; 01-JAN-2009 01:48:27; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;35757
 7; 727.3; 01-JAN-2009 01:50:02; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;35757
 8; 979.7; 01-JAN-2009 01:54:14; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;35757
 9; 1174.3; 01-JAN-2009 01:57:29; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;35757
 10; 1341.9; 01-JAN-2009 02:00:16; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;35757
 11; 1434.6; 01-JAN-2009 02:01:49; Dark ; 44.0; 179; 240mi2CMA ; 3.03; 24000;occ; 88; 0;35757
 12; 1582.1; 01-JAN-2009 02:04:16; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;35757
 13; 1770.1; 01-JAN-2009 02:07:24; Dark ; 44.0; 7; 19Bet Ori ; 0.10; 14000;occ; 88; 0;35757
 14; 1881.7; 01-JAN-2009 02:09:16; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;35757
 15; 2032.5; 01-JAN-2009 02:11:47; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;35757
 16; 2270.6; 01-JAN-2009 02:15:45; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;35757
 17; 2396.8; 01-JAN-2009 02:17:51; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35757
 18; 2472.2; 01-JAN-2009 02:19:07; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35757
 19; 2565.7; 01-JAN-2009 02:20:40; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;35757
 20; 2692.3; 01-JAN-2009 02:22:47; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;35757
 21; 3423.1; 01-JAN-2009 02:34:57; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;35757
 22; 3690.5; 01-JAN-2009 02:39:25; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;35757

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 7; -278.4; 01-JAN-2009 03:13:52; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;35757
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 9; 41.8; 01-JAN-2009 03:19:12; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;35758
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 11; 433.3; 01-JAN-2009 03:25:44; Dark ; 26.5; 124; The Car ; 2.76; 30000;occ; 53; 0;35758
 12; 549.2; 01-JAN-2009 03:27:39; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;35758
 13; 633.5; 01-JAN-2009 03:29:04; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;35758
 14; 728.2; 01-JAN-2009 03:30:38; Dark ; 40.0; 41; Eps Car ; 1.86; 4100;occ; 80; 0;35758
 15; 980.4; 01-JAN-2009 03:34:51; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;35758
 16; 1174.5; 01-JAN-2009 03:38:05; Dark ; 41.0; 117; Pi Pup ; 2.71; 3800;occ; 82; 0;35758
 17; 1342.1; 01-JAN-2009 03:40:52; Dark ; 48.0; 23; 21Eps CMA ; 1.50; 26000;occ; 96; 0;35758
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 22; 2032.6; 01-JAN-2009 03:52:23; Dark ; 47.0; 14; 58Alp Ori ; 0.87; 3000;occ; 94; 0;35758
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 27; 2692.4; 01-JAN-2009 04:03:23; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;35758
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 3; -1489.0; 01-JAN-2009 04:34:17; Bright; 55.0; 67; 5Alp CrB ; 2.22; 11000;occ; 110; 0;35758
 4; -1144.0; 01-JAN-2009 04:40:02; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;35758
 5; -839.2; 01-JAN-2009 04:45:07; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;35758
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 12; 433.6; 01-JAN-2009 05:06:20; Dark ; 26.0; 124; The Car ; 2.76; 30000;occ; 52; 0;35759
 13; 549.6; 01-JAN-2009 05:08:16; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35759
 14; 634.0; 01-JAN-2009 05:09:40; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;35759
 15; 728.8; 01-JAN-2009 05:11:15; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;35759

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16; 980.8; 01-JAN-2009 05:15:27; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;35759
17; 1174.8; 01-JAN-2009 05:18:41; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;35759
18; 1342.9; 01-JAN-2009 05:21:29; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;35759
19; 1434.7; 01-JAN-2009 05:23:01; Dark ; 44.0; 179; 240mi2CMA ; 3.03; 24000;occ; 88; 0;35759
20; 1582.6; 01-JAN-2009 05:25:29; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;35759
21; 1770.4; 01-JAN-2009 05:28:37; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;35759
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23; 2032.3; 01-JAN-2009 05:32:59; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;35759
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27; 2566.1; 01-JAN-2009 05:41:52; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;35759
28; 2692.6; 01-JAN-2009 05:43:59; Bright; 37.0; 6; 13Alp Aur ; 0.08; 3400;occ; 74; 0;35759
29; 3423.6; 01-JAN-2009 05:56:10; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;35759
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2; 1056.1; 01-JAN-2009 20:22:06; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;35768
3; 1178.2; 01-JAN-2009 20:24:08; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;35768
4; 1345.2; 01-JAN-2009 20:26:55; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;35768
5; 1436.9; 01-JAN-2009 20:28:27; Dark ; 45.0; 179; 240mi2CMA ; 3.03; 24000;occ; 90; 0;35768
6; 1583.8; 01-JAN-2009 20:30:53; Dark ; 51.5; 1; 9Alp CMA ; -1.44; 11000;occ; 103; 0;35768
7; 1772.5; 01-JAN-2009 20:34:02; Dark ; 42.5; 7; 19Bet Ori ; 0.10; 14000;occ; 85; 0;35768
8; 1883.2; 01-JAN-2009 20:35:53; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;35768
9; 2032.9; 01-JAN-2009 20:38:23; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;35768
10; 2224.1; 01-JAN-2009 20:41:34; Dark ; 26.0; 44; 24Gam Gem ; 1.93; 11000;occ; 52; 0;35768
11; 2322.6; 01-JAN-2009 20:43:12; Bright; 49.5; 151; 13Mu Gem ; 2.89; 3000;occ; 99; 0;35768
12; 2472.8; 01-JAN-2009 20:45:42; Bright; 52.0; 114; 3Iot Aur ; 2.69; 4600;occ; 104; 0;35768
13; 2563.5; 01-JAN-2009 20:47:13; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;35768
14; 2691.1; 01-JAN-2009 20:49:21; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;35768
15; 3423.2; 01-JAN-2009 21:01:33; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;35768
16; 3689.1; 01-JAN-2009 21:05:59; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;35768
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19; 4578.0; 01-JAN-2009 21:20:48; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;35768
20; 4895.0; 01-JAN-2009 21:26:05; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;35768
21; 5201.7; 01-JAN-2009 21:31:11; Bright; 30.5; 104; 27Bet Lib ; 2.61; 13100;occ; 61; 0;35768
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8; 438.2; 01-JAN-2009 21:52:24; Dark ; 40.0; 124; The Car ; 2.76; 30000;occ; 80; 0;35769
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11; 732.8; 01-JAN-2009 21:57:18; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;35769
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14; 1056.6; 01-JAN-2009 22:02:42; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;35769
15; 1178.9; 01-JAN-2009 22:04:44; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35769
16; 1345.7; 01-JAN-2009 22:07:31; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;35769
17; 1437.3; 01-JAN-2009 22:09:03; Dark ; 45.0; 179; 240mi2CMA ; 3.03; 24000;occ; 90; 0;35769
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19; 1772.6; 01-JAN-2009 22:14:38; Dark ; 43.0; 7; 19Bet Ori ; 0.10; 14000;occ; 86; 0;35769
20; 1883.0; 01-JAN-2009 22:16:29; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35769
21; 2032.6; 01-JAN-2009 22:18:58; Dark ; 49.0; 14; 58Alp Ori ; 0.87; 3000;occ; 98; 0;35769
22; 2224.6; 01-JAN-2009 22:22:10; Dark ; 26.0; 44; 24Gam Gem ; 1.93; 11000;occ; 52; 0;35769
23; 2322.9; 01-JAN-2009 22:23:48; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;35769
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 33; 5041.3; 03-JAN-2009 23:46:29; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;35798
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11; 3423.5; 04-JAN-2009 07:42:30; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;35803
12; 3685.2; 04-JAN-2009 07:46:52; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35803
13; 3923.6; 04-JAN-2009 07:50:51; Bright; 53.0; 119; 14Eta Dra ; 2.73; 4700;occ; 106; 0;35803
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21; 5694.3; 04-JAN-2009 08:20:21; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;35803
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23; 5868.0; 04-JAN-2009 08:23:15; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;35803
24; 5965.2; 04-JAN-2009 08:24:52; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0;35803
25; 6052.1; 04-JAN-2009 08:26:19; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;35803
26; 6185.0; 04-JAN-2009 08:28:32; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;35803
27; 6293.7; 04-JAN-2009 08:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35803
28; 6493.3; 04-JAN-2009 08:33:40; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35803
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31; 6783.5; 04-JAN-2009 08:38:31; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;35803
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33; 7109.3; 04-JAN-2009 08:43:56; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35803
34; 7227.1; 04-JAN-2009 08:45:54; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;35803
35; 7390.8; 04-JAN-2009 08:48:38; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;35803
36; 7481.4; 04-JAN-2009 08:50:08; Dark ; 42.0; 179; 240mi2Cma ; 3.03; 24000;occ; 84; 0;35803
37; 7624.3; 04-JAN-2009 08:52:31; Dark ; 48.0; 1; 9Alp CMa ;-1.44; 11000;occ; 96; 0;35803
38; 7813.8; 04-JAN-2009 08:55:41; Dark ; 31.0; 7; 19Bet Ori ; 0.10; 14000;occ; 62; 0;35803

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 18; 5386.3; 04-JAN-2009 09:55:49; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;35804
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 23; 6052.1; 04-JAN-2009 10:06:55; Dark ; 46.0; 4; Alp1Cen ;-0.01; 5800;occ; 92; 0;35804
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 25; 6294.6; 04-JAN-2009 10:10:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35804
 26; 6493.6; 04-JAN-2009 10:14:17; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;35804
 27; 6602.2; 04-JAN-2009 10:16:05; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;35804
 28; 6694.1; 04-JAN-2009 10:17:37; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;35804
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 31; 7110.3; 04-JAN-2009 10:24:33; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35804
 32; 7227.1; 04-JAN-2009 10:26:30; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35804
 33; 7390.8; 04-JAN-2009 10:29:14; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;35804
 34; 7481.2; 04-JAN-2009 10:30:44; Dark ; 42.0; 179; 240mi2CMa ; 3.03; 24000;occ; 84; 0;35804
 35; 7624.4; 04-JAN-2009 10:33:07; Dark ; 53.0; 1; 9Alp CMa ;-1.44; 11000;occ; 106; 0;35804

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090104_103345_000058972075_00180_35805_3068.N1

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 5; 2269.3; 04-JAN-2009 10:44:28; Bright; 34.5; 176; 23Zet Tau ; 3.02; 22000;occ; 69; 0;35805
 6; 2395.0; 04-JAN-2009 10:46:34; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;35805
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 13; 4057.1; 04-JAN-2009 11:14:16; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;35805
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 15; 4555.4; 04-JAN-2009 11:22:34; Bright; 40.5; 67; 5Alp CrB ; 2.22; 11000;occ; 81; 0;35805
 16; 4907.1; 04-JAN-2009 11:28:26; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;35805
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 19; 5387.3; 04-JAN-2009 11:36:26; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;35805
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 22; 5869.1; 04-JAN-2009 11:44:28; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;35805
 23; 5966.9; 04-JAN-2009 11:46:06; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;35805
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 25; 6186.3; 04-JAN-2009 11:49:45; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;35805
 26; 6295.5; 04-JAN-2009 11:51:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35805
 27; 6494.3; 04-JAN-2009 11:54:53; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35805
 28; 6602.6; 04-JAN-2009 11:56:41; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35805
 29; 6694.9; 04-JAN-2009 11:58:14; Dark ; 49.0; 71; Iot Car ; 2.25; 7700;occ; 98; 0;35805
 30; 6785.0; 04-JAN-2009 11:59:44; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;35805
 31; 7028.2; 04-JAN-2009 12:03:47; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;35805
 32; 7110.5; 04-JAN-2009 12:05:09; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;35805
 33; 7227.8; 04-JAN-2009 12:07:07; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35805
 34; 7391.0; 04-JAN-2009 12:09:50; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0;35805
 35; 7481.4; 04-JAN-2009 12:11:20; Dark ; 43.0; 179; 240mi2CMa ; 3.03; 24000;occ; 86; 0;35805

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 5; 2031.2; 04-JAN-2009 12:21:06; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;35806
 6; 2268.4; 04-JAN-2009 12:25:03; Bright; 36.0; 176; 23Zet Tau ; 3.02; 22000;occ; 72; 0;35806
 7; 2394.8; 04-JAN-2009 12:27:10; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;35806

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12; 3684.8; 04-JAN-2009 12:48:39; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;35806
13; 3923.8; 04-JAN-2009 12:52:39; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;35806
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33; 7110.7; 04-JAN-2009 13:45:45; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;35806
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35; 7391.4; 04-JAN-2009 13:50:26; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;35806
36; 7481.3; 04-JAN-2009 13:51:56; Dark ; 43.5; 179; 240mi2Cma ; 3.03; 24000;occ; 87; 0;35806

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090104_135156_000059752075_00182_35807_3070.N1

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22; 5781.3; 04-JAN-2009 15:04:12; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;35807
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 31; 7122.1; 06-JAN-2009 09:21:31; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;35832
 32; 7235.9; 06-JAN-2009 09:23:25; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;35832
 33; 7397.2; 06-JAN-2009 09:26:06; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;35832
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090106_092957_000059262075_00208_35833_3084.N1

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 16; 4917.5; 06-JAN-2009 10:25:22; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;35833
 17; 5051.7; 06-JAN-2009 10:27:37; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;35833
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 32; 7236.6; 06-JAN-2009 11:04:01; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35833
 33; 7398.0; 06-JAN-2009 11:06:43; Dark ; 43.5; 23; 21Eps CMA ; 1.50; 26000;occ; 87; 0;35833
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090106_110656_000061532075_00209_35834_3085.N1

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 3; 1592.2; 06-JAN-2009 11:10:33; Dark ; 52.5; 1; 9Alp CMA ;-1.44; 11000;occ; 105; 0;35834
 4; 1739.5; 06-JAN-2009 11:13:00; Dark ; 42.0; 56; 53Kap Ori ; 2.07; 30000;occ; 84; 0;35834
 5; 1888.4; 06-JAN-2009 11:15:29; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;35834
 6; 2031.2; 06-JAN-2009 11:17:52; Dark ; 50.5; 14; 58Alp Ori ; 0.87; 3000;occ; 101; 0;35834
 7; 2207.2; 06-JAN-2009 11:20:48; Dark ; 44.5; 44; 24Gam Gem ; 1.93; 11000;occ; 89; 0;35834
 8; 2306.8; 06-JAN-2009 11:22:27; Bright; 43.5; 151; 13Mu Gem ; 2.89; 3000;occ; 87; 0;35834
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 11; 2689.5; 06-JAN-2009 11:28:50; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;35834
 12; 3424.6; 06-JAN-2009 11:41:05; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;35834

13; 3681.7; 06-JAN-2009 11:45:22; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;35834
 14; 3924.3; 06-JAN-2009 11:49:25; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;35834
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 18; 4917.3; 06-JAN-2009 12:05:58; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;35834
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 23; 5794.3; 06-JAN-2009 12:20:35; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;35834
 24; 5884.1; 06-JAN-2009 12:22:05; Dark ; 41.5; 78; Alp Lup ; 2.30; 28000;occ; 83; 0;35834
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 32; 7034.8; 06-JAN-2009 12:41:15; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;35834
 33; 7123.1; 06-JAN-2009 12:42:44; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;35834
 34; 7236.9; 06-JAN-2009 12:44:37; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;35834
 35; 7398.2; 06-JAN-2009 12:47:19; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0;35834
 36; 7487.7; 06-JAN-2009 12:48:48; Dark ; 41.5; 179; 240mi2CMa ; 3.03; 24000;occ; 83; 0;35834

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090106_124906_000059732075_00210_35835_3086.N1

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 33; 7236.9; 06-JAN-2009 14:25:13; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;35835
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090106_142803_000059112075_00211_35836_3087.N1

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 3; 1591.9; 06-JAN-2009 14:31:44; Dark ; 47.5; 1; 9Alp CMa ;-1.44; 11000;occ; 95; 0;35836
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 8; 2306.7; 06-JAN-2009 14:43:39; Bright; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;35836


```

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15; 4061.8; 06-JAN-2009 15:12:54; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;35836
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23; 5795.4; 06-JAN-2009 15:41:48; Dark ; 41.0; 109; Bet Lup ; 2.68; 26000;occ; 82; 0;35836
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25; 6063.7; 06-JAN-2009 15:46:16; Dark ; 53.0; 4; Alp1Cen ;-0.01; 5800;occ; 106; 0;35836
26; 6213.1; 06-JAN-2009 15:48:45; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;35836
27; 6309.6; 06-JAN-2009 15:50:22; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;35836
28; 6509.7; 06-JAN-2009 15:53:42; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;35836
29; 6612.8; 06-JAN-2009 15:55:25; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;35836
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31; 6816.5; 06-JAN-2009 15:58:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35836
32; 7039.7; 06-JAN-2009 16:02:32; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;35836
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 13; 1101.7; 08-JAN-2009 23:23:56; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;35870
 14; 1211.6; 08-JAN-2009 23:25:46; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;35870
 15; 1369.8; 08-JAN-2009 23:28:24; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;35870
 16; 1458.4; 08-JAN-2009 23:29:52; Dark ; 40.0; 179; 240mi2CMA ; 3.03; 24000;occ; 80; 0;35870
 17; 1596.1; 08-JAN-2009 23:32:10; Dark ; 46.0; 1; 9Alp CMA ; -1.44; 11000;occ; 92; 0;35870
 18; 1744.2; 08-JAN-2009 23:34:38; Dark ; 42.5; 56; 53Kap Ori ; 2.07; 30000;occ; 85; 0;35870
 19; 1891.7; 08-JAN-2009 23:37:06; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;35870
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 22; 2300.3; 08-JAN-2009 23:43:54; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;35870
 23; 2395.6; 08-JAN-2009 23:45:30; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;35870
 24; 2482.1; 08-JAN-2009 23:46:56; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;35870
 25; 2678.2; 08-JAN-2009 23:50:12; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;35870
 26; 3424.0; 09-JAN-2009 00:02:38; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;35870
 27; 3676.4; 09-JAN-2009 00:06:50; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;35870
 28; 3924.3; 09-JAN-2009 00:10:58; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;35870
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 30; 4440.0; 09-JAN-2009 00:19:34; Bright; 50.5; 133; 40Zet Her ; 2.81; 6000;occ; 101; 0;35870
 31; 4568.0; 09-JAN-2009 00:21:42; Bright; 40.5; 67; 5Alp CrB ; 2.22; 11000;occ; 81; 0;35870
 32; 4930.7; 09-JAN-2009 00:27:45; Bright; 57.0; 102; 24Alp Ser ; 2.60; 4250;occ; 114; 0;35870
 33; 5063.6; 09-JAN-2009 00:29:58; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;35870
 34; 5152.3; 09-JAN-2009 00:31:26; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;35870
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090108_082646_000060822075_00236_35861_3101.N1

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 28; 6621.4; 08-JAN-2009 09:50:32; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35861
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 31; 7003.6; 08-JAN-2009 09:56:54; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;35861
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 34; 7404.8; 08-JAN-2009 10:03:36; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;35861
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090108_100809_000060352075_00237_35862_3103.N1

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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090108_114758_000059402075_00238_35863_3104.N1

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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090108_132621_000060582075_00239_35864_3105.N1

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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090110_154252_000058132075_00269_35894_3120.N1

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11; 3424.5; 11-JAN-2009 12:24:12; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;35906
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26; 6292.4; 11-JAN-2009 13:12:00; Dark ; 39.5; 20; Bet Cru ; 1.25; 30000;occ; 79; 0;35906
27; 6390.6; 11-JAN-2009 13:13:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35906
28; 6545.0; 11-JAN-2009 13:16:12; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;35906
29; 6636.2; 11-JAN-2009 13:17:43; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;35906
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| 2; | 1465.2; | 11-JAN-2009 | 15:12:44; | Dark | ; | 42.5; | 179; | 240mi2CMA | ; | 3.03; | 24000;occ; | 85; | 0; | 35908 |
| 3; | 1602.1; | 11-JAN-2009 | 15:15:01; | Dark | ; | 44.5; | 1; | 9Alp CMA | ; | -1.44; | 11000;occ; | 89; | 0; | 35908 |
| 4; | 1749.8; | 11-JAN-2009 | 15:17:29; | Dark | ; | 40.5; | 56; | 53Kap Ori | ; | 2.07; | 30000;occ; | 81; | 0; | 35908 |
| 5; | 1897.3; | 11-JAN-2009 | 15:19:56; | Dark | ; | 43.0; | 30; | 46Eps Ori | ; | 1.69; | 30000;occ; | 86; | 0; | 35908 |
| 6; | 2034.4; | 11-JAN-2009 | 15:22:13; | Dark | ; | 50.0; | 14; | 58Alp Ori | ; | 0.87; | 3000;occ; | 100; | 0; | 35908 |
| 7; | 2194.4; | 11-JAN-2009 | 15:24:53; | Dark | ; | 45.5; | 44; | 24Gam Gem | ; | 1.93; | 11000;occ; | 91; | 0; | 35908 |
| 8; | 2296.2; | 11-JAN-2009 | 15:26:35; | Bright; | ; | 43.5; | 151; | 13Mu Gem | ; | 2.89; | 3000;occ; | 87; | 0; | 35908 |
| 9; | 2398.5; | 11-JAN-2009 | 15:28:17; | Bright; | ; | 38.0; | 28; | 12Bet Tau | ; | 1.65; | 15200;occ; | 76; | 0; | 35908 |
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| 11; | 2674.5; | 11-JAN-2009 | 15:32:53; | Bright; | ; | 37.0; | 42; | 34Bet Aur | ; | 1.90; | 10200;occ; | 74; | 0; | 35908 |
| 12; | 3424.4; | 11-JAN-2009 | 15:45:23; | Bright; | ; | 36.5; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 73; | 0; | 35908 |
| 13; | 3671.2; | 11-JAN-2009 | 15:49:30; | Bright; | ; | 40.5; | 60; | 7Bet UMi | ; | 2.08; | 3950;occ; | 81; | 0; | 35908 |
| 14; | 3923.7; | 11-JAN-2009 | 15:53:43; | Bright; | ; | 40.5; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ; | 81; | 0; | 35908 |
| 15; | 4071.1; | 11-JAN-2009 | 15:56:10; | Bright; | ; | 33.5; | 130; | 23Bet Dra | ; | 2.80; | 5800;occ; | 67; | 0; | 35908 |
| 16; | 4445.8; | 11-JAN-2009 | 16:02:25; | Bright; | ; | 36.5; | 133; | 40Zet Her | ; | 2.81; | 6000;occ; | 73; | 0; | 35908 |
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| 19; | 5077.4; | 11-JAN-2009 | 16:12:56; | Bright; | ; | 39.0; | 120; | 1Del Oph | ; | 2.73; | 3200;occ; | 78; | 0; | 35908 |
| 20; | 5162.9; | 11-JAN-2009 | 16:14:22; | Bright; | ; | 38.0; | 98; | 13Zet Oph | ; | 2.57; | 30000;occ; | 76; | 0; | 35908 |
| 21; | 5281.7; | 11-JAN-2009 | 16:16:21; | Dark | ; | 48.0; | 104; | 27Bet Lib | ; | 2.61; | 13100;occ; | 96; | 0; | 35908 |
| 22; | 5429.9; | 11-JAN-2009 | 16:18:49; | Dark | ; | 52.0; | 16; | 21Alp Sco | ; | 1.02; | 3000;occ; | 104; | 0; | 35908 |
| 23; | 5736.8; | 11-JAN-2009 | 16:23:56; | Dark | ; | 40.5; | 131; | Gam Lup | ; | 2.80; | 26000;occ; | 81; | 0; | 35908 |
| 24; | 5835.5; | 11-JAN-2009 | 16:25:34; | Dark | ; | 40.0; | 109; | Bet Lup | ; | 2.68; | 26000;occ; | 80; | 0; | 35908 |
| 25; | 5926.1; | 11-JAN-2009 | 16:27:05; | Dark | ; | 43.0; | 78; | Alp Lup | ; | 2.30; | 28000;occ; | 86; | 0; | 35908 |
| 26; | 6040.1; | 11-JAN-2009 | 16:28:59; | Dark | ; | 42.0; | 95; | Zet Cen | ; | 2.55; | 26000;occ; | 84; | 0; | 35908 |
| 27; | 6293.2; | 11-JAN-2009 | 16:33:12; | Dark | ; | 40.5; | 20; | Bet Cru | ; | 1.25; | 30000;occ; | 81; | 0; | 35908 |
| 28; | 6392.7; | 11-JAN-2009 | 16:34:52; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0;occ; | 119; | 0; | 35908 |
| 29; | 6546.5; | 11-JAN-2009 | 16:37:25; | Dark | ; | 39.0; | 124; | The Car | ; | 2.76; | 30000;occ; | 78; | 0; | 35908 |
| 30; | 6636.8; | 11-JAN-2009 | 16:38:56; | Dark | ; | 38.5; | 29; | Bet Car | ; | 1.67; | 10200;occ; | 77; | 0; | 35908 |
| 31; | 6745.3; | 11-JAN-2009 | 16:40:44; | Dark | ; | 39.0; | 71; | Iot Car | ; | 2.25; | 7700;occ; | 78; | 0; | 35908 |
| 32; | 6825.1; | 11-JAN-2009 | 16:42:04; | Dark | ; | 50.0; | 41; | Eps Car | ; | 1.86; | 4100;occ; | 100; | 0; | 35908 |
| 33; | 7024.0; | 11-JAN-2009 | 16:45:23; | Dark | ; | 44.0; | 34; | Gam2Vel | ; | 1.79; | 23000;occ; | 88; | 0; | 35908 |
| 34; | 7153.4; | 11-JAN-2009 | 16:47:32; | Dark | ; | 45.5; | 70; | Zet Pup | ; | 2.25; | 39000;occ; | 91; | 0; | 35908 |
| 35; | 7258.7; | 11-JAN-2009 | 16:49:18; | Dark | ; | 1.0; | 117; | Pi Pup | ; | 2.71; | 3800;occ; | 2; | 0; | 35908 |

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| 3; | 1378.9; | 11-JAN-2009 | 16:51:54; | Dark | ; | 44.5; | 23; | 21Eps CMA | ; | 1.50; | 26000;occ; | 89; | 0; | 35909 |
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| 14; | 3424.3; | 11-JAN-2009 | 17:25:59; | Bright; | ; | 36.0; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 72; | 0; | 35909 |
| 15; | 3671.1; | 11-JAN-2009 | 17:30:06; | Bright; | ; | 43.5; | 60; | 7Bet UMi | ; | 2.08; | 3950;occ; | 87; | 0; | 35909 |
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| 17; | 4071.5; | 11-JAN-2009 | 17:36:46; | Bright; | ; | 34.0; | 130; | 23Bet Dra | ; | 2.80; | 5800;occ; | 68; | 0; | 35909 |
| 18; | 4446.4; | 11-JAN-2009 | 17:43:01; | Bright; | ; | 53.0; | 133; | 40Zet Her | ; | 2.81; | 6000;occ; | 106; | 0; | 35909 |
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| 20; | 4947.2; | 11-JAN-2009 | 17:51:22; | Bright; | ; | 59.0; | 102; | 24Alp Ser | ; | 2.60; | 4250;occ; | 118; | 0; | 35909 |
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090113_105749_000056112075_00309_35934_3142.N1

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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090113_123114_000059412075_00310_35935_3143.N1

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 4; 2294.5; 24-JAN-2009 08:35:31; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;36090
 5; 2416.4; 24-JAN-2009 08:37:33; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36090
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 7; 2676.5; 24-JAN-2009 08:41:53; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36090
 8; 3426.4; 24-JAN-2009 08:54:23; Bright; 36.5; 49; 1Alp UMI ; 1.99; 6300;occ; 73; 0;36090
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 11; 4085.3; 24-JAN-2009 09:05:22; Bright; 53.0; 130; 23Bet Dra ; 2.80; 5800;occ; 106; 0;36090
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 13; 4672.0; 24-JAN-2009 09:15:09; Bright; 43.0; 127; 27Bet Her ; 2.78; 4700;occ; 86; 0;36090
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 15; 4895.9; 24-JAN-2009 09:18:52; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;36090
 16; 5236.7; 24-JAN-2009 09:24:33; Dark ; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;36090

17; 5506.8; 24-JAN-2009 09:29:03; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;36090
 18; 5593.1; 24-JAN-2009 09:30:30; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36090
 19; 5841.2; 24-JAN-2009 09:34:38; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;36090
 20; 5962.6; 24-JAN-2009 09:36:39; Dark ; 43.5; 109; Bet Lup ; 2.68; 26000;occ; 87; 0;36090
 21; 6071.6; 24-JAN-2009 09:38:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36090
 22; 6175.2; 24-JAN-2009 09:40:12; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36090
 23; 6265.3; 24-JAN-2009 09:41:42; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;36090
 24; 6448.8; 24-JAN-2009 09:44:45; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;36090
 25; 6541.2; 24-JAN-2009 09:46:18; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36090
 26; 6691.3; 24-JAN-2009 09:48:48; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;36090
 27; 6822.3; 24-JAN-2009 09:50:59; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;36090
 28; 6931.2; 24-JAN-2009 09:52:48; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;36090
 29; 7087.4; 24-JAN-2009 09:55:24; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;36090
 30; 7213.8; 24-JAN-2009 09:57:30; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;36090
 31; 7302.6; 24-JAN-2009 09:58:59; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;36090
 32; 7451.6; 24-JAN-2009 10:01:28; Dark ; 39.5; 23; 21Eps CMa ; 1.50; 26000;occ; 79; 0;36090
 33; 7534.6; 24-JAN-2009 10:02:51; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;36090
 34; 7663.6; 24-JAN-2009 10:05:00; Dark ; 41.5; 1; 9Alp CMa ;-1.44; 11000;occ; 83; 0;36090

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 4; 2294.5; 24-JAN-2009 10:16:07; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;36091
 5; 2416.1; 24-JAN-2009 10:18:09; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;36091
 6; 2548.2; 24-JAN-2009 10:20:21; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36091
 7; 2676.8; 24-JAN-2009 10:22:29; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36091
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 11; 4085.3; 24-JAN-2009 10:45:58; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;36091
 12; 4472.2; 24-JAN-2009 10:52:25; Bright; 39.5; 133; 40Zet Her ; 2.81; 6000;occ; 79; 0;36091
 13; 4672.4; 24-JAN-2009 10:55:45; Bright; 44.0; 127; 27Bet Her ; 2.78; 4700;occ; 88; 0;36091
 14; 4769.5; 24-JAN-2009 10:57:22; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;36091
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 17; 5507.4; 24-JAN-2009 11:09:40; Dark ; 47.0; 16; 21Alp Sco ; 1.02; 3000;occ; 94; 0;36091
 18; 5593.6; 24-JAN-2009 11:11:06; Dark ; 44.0; 75; 26Eps Sco ; 2.29; 4250;occ; 88; 0;36091
 19; 5841.9; 24-JAN-2009 11:15:14; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;36091
 20; 5963.5; 24-JAN-2009 11:17:16; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36091
 21; 6072.2; 24-JAN-2009 11:19:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36091
 22; 6176.0; 24-JAN-2009 11:20:48; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36091
 23; 6265.8; 24-JAN-2009 11:22:18; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;36091
 24; 6449.3; 24-JAN-2009 11:25:22; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;36091
 25; 6542.4; 24-JAN-2009 11:26:55; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36091
 26; 6691.5; 24-JAN-2009 11:29:24; Dark ; 43.0; 29; Bet Car ; 1.67; 10200;occ; 86; 0;36091
 27; 6822.7; 24-JAN-2009 11:31:35; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;36091
 28; 6931.3; 24-JAN-2009 11:33:24; Dark ; 37.0; 46; Del Vel ; 1.95; 10600;occ; 74; 0;36091
 29; 7087.2; 24-JAN-2009 11:36:00; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;36091
 30; 7214.4; 24-JAN-2009 11:38:07; Dark ; 37.0; 70; Zet Pup ; 2.25; 39000;occ; 74; 0;36091
 31; 7303.0; 24-JAN-2009 11:39:35; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;36091
 32; 7451.5; 24-JAN-2009 11:42:04; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;36091
 33; 7535.2; 24-JAN-2009 11:43:28; Dark ; 36.5; 179; 240mi2CMa ; 3.03; 24000;occ; 73; 0;36091

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 2; 1628.1; 24-JAN-2009 11:45:36; Dark ; 43.5; 1; 9Alp CMa ;-1.44; 11000;occ; 87; 0;36092
 3; 1996.2; 24-JAN-2009 11:51:44; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;36092
 4; 2188.3; 24-JAN-2009 11:54:57; Bright; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;36092
 5; 2295.1; 24-JAN-2009 11:56:43; Bright; 37.5; 151; 13Mu Gem ; 2.89; 3000;occ; 75; 0;36092
 6; 2416.2; 24-JAN-2009 11:58:44; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36092
 7; 2548.5; 24-JAN-2009 12:00:57; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36092
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 9; 3426.4; 24-JAN-2009 12:15:35; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36092
 10; 3637.8; 24-JAN-2009 12:19:06; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;36092
 11; 3911.2; 24-JAN-2009 12:23:40; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;36092
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 13; 4472.3; 24-JAN-2009 12:33:01; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;36092
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 19; 5594.1; 24-JAN-2009 12:51:42; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36092
 20; 5842.7; 24-JAN-2009 12:55:51; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;36092
 21; 5964.4; 24-JAN-2009 12:57:53; Dark ; 42.5; 109; Bet Lup ; 2.68; 26000;occ; 85; 0;36092
 22; 6072.9; 24-JAN-2009 12:59:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36092
 23; 6176.9; 24-JAN-2009 13:01:25; Dark ; 40.0; 4; Alp1Cen ;-0.01; 5800;occ; 80; 0;36092
 24; 6267.6; 24-JAN-2009 13:02:56; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;36092
 25; 6450.1; 24-JAN-2009 13:05:58; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;36092
 26; 6543.1; 24-JAN-2009 13:07:31; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36092
 27; 6691.7; 24-JAN-2009 13:10:00; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;36092
 28; 6823.4; 24-JAN-2009 13:12:12; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;36092
 29; 6931.4; 24-JAN-2009 13:14:00; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;36092
 30; 7088.3; 24-JAN-2009 13:16:37; Dark ; 38.0; 34; Gam2Vel ; 1.79; 23000;occ; 76; 0;36092
 31; 7214.3; 24-JAN-2009 13:18:43; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;36092
 32; 7304.1; 24-JAN-2009 13:20:12; Dark ; 40.0; 117; Pi Pup ; 2.71; 3800;occ; 80; 0;36092
 33; 7451.8; 24-JAN-2009 13:22:40; Dark ; 36.5; 23; 21Eps CMA ; 1.50; 26000;occ; 73; 0;36092

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 3; 1628.7; 24-JAN-2009 13:26:13; Dark ; 44.5; 1; 9Alp CMA ;-1.44; 11000;occ; 89; 0;36093
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 5; 2188.4; 24-JAN-2009 13:35:33; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 0;36093
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 13; 4085.4; 24-JAN-2009 14:07:10; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;36093
 14; 4472.4; 24-JAN-2009 14:13:37; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;36093
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 17; 4896.5; 24-JAN-2009 14:20:41; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;36093
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 21; 5843.5; 24-JAN-2009 14:36:28; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;36093
 22; 5965.3; 24-JAN-2009 14:38:29; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;36093
 23; 6073.6; 24-JAN-2009 14:40:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36093
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 33; 7303.8; 24-JAN-2009 15:00:48; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;36093

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 5; 41.6; 25-JAN-2009 00:43:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36100
 6; 143.6; 25-JAN-2009 00:45:39; Dark ; 49.5; 4; Alp1Cen ;-0.01; 5800;occ; 99; 0;36100
 7; 236.6; 25-JAN-2009 00:47:12; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;36100
 8; 417.9; 25-JAN-2009 00:50:14; Dark ; 43.0; 12; Alp1Cru ; 0.77; 30000;occ; 86; 0;36100
 9; 512.9; 25-JAN-2009 00:51:49; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36100
 10; 657.8; 25-JAN-2009 00:54:13; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;36100
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 12; 898.1; 25-JAN-2009 00:58:14; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;36100
 13; 1053.6; 25-JAN-2009 01:00:49; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;36100
 14; 1180.4; 25-JAN-2009 01:02:56; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;36100
 15; 1269.4; 25-JAN-2009 01:04:25; Dark ; 42.0; 117; Pi Pup ; 2.71; 3800;occ; 84; 0;36100

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21; 2295.5; 25-JAN-2009 01:21:31; Bright; 37.0; 151; 13Mu Gem ; 2.89; 3000;occ; 74; 0;36100
22; 2413.4; 25-JAN-2009 01:23:29; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;36100
23; 2549.3; 25-JAN-2009 01:25:45; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36100
24; 2677.2; 25-JAN-2009 01:27:53; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36100
25; 3426.4; 25-JAN-2009 01:40:22; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;36100
26; 3635.7; 25-JAN-2009 01:43:51; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;36100
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 31; 6935.8; 25-JAN-2009 09:21:15; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;36104
 32; 7091.5; 25-JAN-2009 09:23:51; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;36104
 33; 7218.0; 25-JAN-2009 09:25:57; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;36104
 34; 7306.5; 25-JAN-2009 09:27:26; Dark ; 40.0; 117; Pi Pup ; 2.71; 3800;occ; 80; 0;36104
 35; 7454.3; 25-JAN-2009 09:29:54; Dark ; 39.0; 23; 21Eps CMa ; 1.50; 26000;occ; 78; 0;36104
 36; 7536.9; 25-JAN-2009 09:31:16; Dark ; 37.0; 179; 240mi2CMa ; 3.03; 24000;occ; 74; 0;36104
 37; 7666.3; 25-JAN-2009 09:33:26; Dark ; 43.0; 1; 9Alp CMa ; -1.44; 11000;occ; 86; 0;36104

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090125_093326_000060782075_00480_36105_3244.N1

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 2; 1994.8; 25-JAN-2009 09:39:30; Dark ; 50.5; 8; 10Alp CMi ; 0.40; 6500;occ; 101; 0;36105
 3; 2189.5; 25-JAN-2009 09:42:45; Bright; 37.0; 44; 24Gam Gem ; 1.93; 11000;occ; 74; 0;36105
 4; 2296.2; 25-JAN-2009 09:44:32; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;36105
 5; 2412.4; 25-JAN-2009 09:46:28; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36105
 6; 2550.8; 25-JAN-2009 09:48:46; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;36105
 7; 2678.5; 25-JAN-2009 09:50:54; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;36105
 8; 3426.5; 25-JAN-2009 10:03:22; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;36105
 9; 3635.1; 25-JAN-2009 10:06:50; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;36105
 10; 3909.8; 25-JAN-2009 10:11:25; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;36105
 11; 4085.7; 25-JAN-2009 10:14:21; Bright; 51.5; 130; 23Bet Dra ; 2.80; 5800;occ; 103; 0;36105
 12; 4290.7; 25-JAN-2009 10:17:46; Bright; 51.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 102; 0;36105
 13; 4474.2; 25-JAN-2009 10:20:49; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;36105
 14; 4676.4; 25-JAN-2009 10:24:12; Bright; 45.0; 127; 27Bet Her ; 2.78; 4700;occ; 90; 0;36105
 15; 4773.1; 25-JAN-2009 10:25:48; Bright; 48.5; 59; 55Alp Oph ; 2.08; 8900;occ; 97; 0;36105
 16; 4899.5; 25-JAN-2009 10:27:55; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;36105
 17; 5175.1; 25-JAN-2009 10:32:30; Dark ; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;36105
 18; 5273.4; 25-JAN-2009 10:34:09; Dark ; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;36105

19; 5515.1; 25-JAN-2009 10:38:10; Dark ; 52.0; 16; 21Alp Sco ; 1.02; 3000;occ; 104; 0;36105
 20; 5599.4; 25-JAN-2009 10:39:35; Dark ; 40.0; 75; 26Eps Sco ; 2.29; 4250;occ; 80; 0;36105
 21; 5851.7; 25-JAN-2009 10:43:47; Dark ; 41.0; 131; Gam Lup ; 2.80; 26000;occ; 82; 0;36105
 22; 5975.2; 25-JAN-2009 10:45:51; Dark ; 41.0; 109; Bet Lup ; 2.68; 26000;occ; 82; 0;36105
 23; 6081.3; 25-JAN-2009 10:47:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36105
 24; 6183.1; 25-JAN-2009 10:49:18; Dark ; 41.0; 4; Alp1Cen ;-0.01; 5800;occ; 82; 0;36105
 25; 6276.9; 25-JAN-2009 10:50:52; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;36105
 26; 6457.1; 25-JAN-2009 10:53:52; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;36105
 27; 6553.8; 25-JAN-2009 10:55:29; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36105
 28; 6695.2; 25-JAN-2009 10:57:51; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;36105
 29; 6827.8; 25-JAN-2009 11:00:03; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;36105
 30; 6935.6; 25-JAN-2009 11:01:51; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;36105
 31; 7091.7; 25-JAN-2009 11:04:27; Dark ; 38.5; 34; Gam2Vel ; 1.79; 23000;occ; 77; 0;36105
 32; 7218.0; 25-JAN-2009 11:06:33; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;36105
 33; 7306.7; 25-JAN-2009 11:08:02; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;36105
 34; 7454.4; 25-JAN-2009 11:10:30; Dark ; 38.5; 23; 21Eps CMa ; 1.50; 26000;occ; 77; 0;36105
 35; 7537.3; 25-JAN-2009 11:11:53; Dark ; 36.5; 179; 240mi2CMa ; 3.03; 24000;occ; 73; 0;36105
 36; 7666.1; 25-JAN-2009 11:14:01; Dark ; 42.5; 1; 9Alp CMa ;-1.44; 11000;occ; 85; 0;36105

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090125_111401_000059432075_00481_36106_3245.N1

1; 1630.3; 25-JAN-2009 11:14:01; Dark ; 43.0; 1; 9Alp CMa ;-1.44; 11000;occ; 86; 0;36106
 2; 1995.2; 25-JAN-2009 11:20:06; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;36106
 3; 2189.0; 25-JAN-2009 11:23:20; Bright; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;36106
 4; 2296.3; 25-JAN-2009 11:25:07; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;36106
 5; 2412.1; 25-JAN-2009 11:27:03; Bright; 44.0; 17; 78Bet Gem ; 1.16; 4500;occ; 88; 0;36106
 6; 2550.8; 25-JAN-2009 11:29:22; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;36106
 7; 2678.5; 25-JAN-2009 11:31:30; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;36106
 8; 3426.4; 25-JAN-2009 11:43:58; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;36106
 9; 3634.9; 25-JAN-2009 11:47:26; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;36106
 10; 3909.8; 25-JAN-2009 11:52:01; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;36106
 11; 4085.8; 25-JAN-2009 11:54:57; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;36106
 12; 4290.9; 25-JAN-2009 11:58:22; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;36106
 13; 4474.2; 25-JAN-2009 12:01:25; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;36106
 14; 4676.8; 25-JAN-2009 12:04:48; Bright; 33.0; 127; 27Bet Her ; 2.78; 4700;occ; 66; 0;36106
 15; 4773.1; 25-JAN-2009 12:06:24; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;36106
 16; 4899.9; 25-JAN-2009 12:08:31; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;36106
 17; 5273.9; 25-JAN-2009 12:14:45; Dark ; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;36106
 18; 5515.7; 25-JAN-2009 12:18:47; Dark ; 55.0; 16; 21Alp Sco ; 1.02; 3000;occ; 110; 0;36106
 19; 5599.6; 25-JAN-2009 12:20:11; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;36106
 20; 5852.3; 25-JAN-2009 12:24:23; Dark ; 41.0; 131; Gam Lup ; 2.80; 26000;occ; 82; 0;36106
 21; 5975.9; 25-JAN-2009 12:26:27; Dark ; 43.5; 109; Bet Lup ; 2.68; 26000;occ; 87; 0;36106
 22; 6082.0; 25-JAN-2009 12:28:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36106
 23; 6183.4; 25-JAN-2009 12:29:55; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;36106
 24; 6277.6; 25-JAN-2009 12:31:29; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;36106
 25; 6457.7; 25-JAN-2009 12:34:29; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;36106
 26; 6554.6; 25-JAN-2009 12:36:06; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36106
 27; 6695.4; 25-JAN-2009 12:38:27; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;36106
 28; 6828.3; 25-JAN-2009 12:40:39; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;36106
 29; 6936.2; 25-JAN-2009 12:42:27; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;36106
 30; 7092.2; 25-JAN-2009 12:45:03; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;36106
 31; 7218.3; 25-JAN-2009 12:47:09; Dark ; 38.5; 70; Zet Pup ; 2.25; 39000;occ; 77; 0;36106
 32; 7306.6; 25-JAN-2009 12:48:38; Dark ; 39.5; 117; Pi Pup ; 2.71; 3800;occ; 79; 0;36106
 33; 7454.5; 25-JAN-2009 12:51:06; Dark ; 39.5; 23; 21Eps CMa ; 1.50; 26000;occ; 79; 0;36106
 34; 7537.4; 25-JAN-2009 12:52:29; Dark ; 36.0; 179; 240mi2CMa ; 3.03; 24000;occ; 72; 0;36106

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090125_125229_000058462075_00482_36107_3246.N1

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 2; 1630.3; 25-JAN-2009 12:54:37; Dark ; 43.5; 1; 9Alp CMa ;-1.44; 11000;occ; 87; 0;36107
 3; 1995.1; 25-JAN-2009 13:00:42; Dark ; 47.5; 8; 10Alp CMi ; 0.40; 6500;occ; 95; 0;36107
 4; 2189.2; 25-JAN-2009 13:03:56; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;36107
 5; 2296.4; 25-JAN-2009 13:05:43; Bright; 40.0; 151; 13Mu Gem ; 2.89; 3000;occ; 80; 0;36107
 6; 2411.9; 25-JAN-2009 13:07:39; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36107
 7; 2550.9; 25-JAN-2009 13:09:58; Bright; 32.5; 107; 37The Aur ; 2.65; 11000;occ; 65; 0;36107
 8; 2678.6; 25-JAN-2009 13:12:06; Bright; 34.0; 42; 34Bet Aur ; 1.90; 10200;occ; 68; 0;36107
 9; 3426.9; 25-JAN-2009 13:24:34; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36107
 10; 3634.5; 25-JAN-2009 13:28:01; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;36107
 11; 3909.2; 25-JAN-2009 13:32:36; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;36107
 12; 4086.0; 25-JAN-2009 13:35:33; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;36107
 13; 4291.4; 25-JAN-2009 13:38:58; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;36107
 14; 4474.6; 25-JAN-2009 13:42:02; Bright; 50.0; 133; 40Zet Her ; 2.81; 6000;occ; 100; 0;36107

```

15; 4677.1; 25-JAN-2009 13:45:24; Bright; 33.0; 127; 27Bet Her ; 2.78; 4700;occ; 66; 0;36107
16; 4773.6; 25-JAN-2009 13:47:01; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;36107
17; 4900.0; 25-JAN-2009 13:49:07; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;36107
18; 5274.7; 25-JAN-2009 13:55:22; Dark ; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;36107
19; 5516.5; 25-JAN-2009 13:59:23; Dark ; 53.5; 16; 21Alp Sco ; 1.02; 3000;occ; 107; 0;36107
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21; 5853.0; 25-JAN-2009 14:05:00; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;36107
22; 5976.7; 25-JAN-2009 14:07:04; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36107
23; 6082.7; 25-JAN-2009 14:08:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36107
24; 6184.0; 25-JAN-2009 14:10:31; Dark ; 40.0; 4; Alp1Cen ;-0.01; 5800;occ; 80; 0;36107
25; 6278.3; 25-JAN-2009 14:12:05; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;36107
26; 6457.9; 25-JAN-2009 14:15:05; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;36107
27; 6555.5; 25-JAN-2009 14:16:42; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36107
28; 6695.8; 25-JAN-2009 14:19:03; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;36107
29; 6828.7; 25-JAN-2009 14:21:16; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;36107
30; 6936.9; 25-JAN-2009 14:23:04; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;36107
31; 7092.4; 25-JAN-2009 14:25:39; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;36107
32; 7218.7; 25-JAN-2009 14:27:46; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;36107
33; 7307.0; 25-JAN-2009 14:29:14; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;36107
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090125_142943_000060472075_00483_36108_3247.N1
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 2; 1418.8; 25-JAN-2009 14:31:42; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;36108
 3; 1501.6; 25-JAN-2009 14:33:05; Dark ; 37.0; 179; 240mi2CMa ; 3.03; 24000;occ; 74; 0;36108
 4; 1631.1; 25-JAN-2009 14:35:14; Dark ; 43.5; 1; 9Alp CMa ;-1.44; 11000;occ; 87; 0;36108
 5; 1995.0; 25-JAN-2009 14:41:18; Dark ; 48.5; 8; 10Alp CMi ; 0.40; 6500;occ; 97; 0;36108
 6; 2189.3; 25-JAN-2009 14:44:32; Bright; 36.5; 44; 24Gam Gem ; 1.93; 11000;occ; 73; 0;36108
 7; 2296.6; 25-JAN-2009 14:46:19; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36108
 8; 2412.2; 25-JAN-2009 14:48:15; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;36108
 9; 2551.2; 25-JAN-2009 14:50:34; Bright; 33.5; 107; 37The Aur ; 2.65; 11000;occ; 67; 0;36108
10; 2679.0; 25-JAN-2009 14:52:42; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36108
11; 3426.8; 25-JAN-2009 15:05:10; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;36108
12; 3634.4; 25-JAN-2009 15:08:37; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;36108
13; 3909.4; 25-JAN-2009 15:13:12; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;36108
14; 4085.9; 25-JAN-2009 15:16:09; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;36108
15; 4291.4; 25-JAN-2009 15:19:34; Bright; 51.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 102; 0;36108
16; 4474.7; 25-JAN-2009 15:22:38; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;36108
17; 4773.8; 25-JAN-2009 15:27:37; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;36108
18; 4900.4; 25-JAN-2009 15:29:43; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;36108
19; 5274.6; 25-JAN-2009 15:35:58; Dark ; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;36108
20; 5517.8; 25-JAN-2009 15:40:01; Dark ; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;36108
21; 5601.3; 25-JAN-2009 15:41:24; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;36108
22; 5853.6; 25-JAN-2009 15:45:37; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;36108
23; 5977.5; 25-JAN-2009 15:47:40; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36108
24; 6083.4; 25-JAN-2009 15:49:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36108
25; 6184.7; 25-JAN-2009 15:51:08; Dark ; 41.0; 4; Alp1Cen ;-0.01; 5800;occ; 82; 0;36108
26; 6279.2; 25-JAN-2009 15:52:42; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;36108
27; 6458.7; 25-JAN-2009 15:55:42; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;36108
28; 6556.5; 25-JAN-2009 15:57:19; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36108
29; 6696.0; 25-JAN-2009 15:59:39; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;36108
30; 6829.2; 25-JAN-2009 16:01:52; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;36108
31; 6937.1; 25-JAN-2009 16:03:40; Dark ; 37.5; 46; Del Vel ; 1.95; 10600;occ; 75; 0;36108
32; 7092.4; 25-JAN-2009 16:06:15; Dark ; 38.5; 34; Gam2Vel ; 1.79; 23000;occ; 77; 0;36108
33; 7219.2; 25-JAN-2009 16:08:22; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;36108
34; 7307.1; 25-JAN-2009 16:09:50; Dark ; 40.0; 117; Pi Pup ; 2.71; 3800;occ; 80; 0;36108
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090125_161019_000056752075_00484_36109_3248.N1
 1; 1300.2; 25-JAN-2009 16:10:19; Dark ; 40.5; 117; Pi Pup ; 2.71; 3800;occ; 81; 58;36109
 2; 1419.2; 25-JAN-2009 16:12:18; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;36109
 3; 1501.7; 25-JAN-2009 16:13:41; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;36109
 4; 1631.0; 25-JAN-2009 16:15:50; Dark ; 43.5; 1; 9Alp CMa ;-1.44; 11000;occ; 87; 0;36109
 5; 1995.3; 25-JAN-2009 16:21:54; Dark ; 41.5; 8; 10Alp CMi ; 0.40; 6500;occ; 83; 0;36109
 6; 2189.5; 25-JAN-2009 16:25:08; Bright; 37.0; 44; 24Gam Gem ; 1.93; 11000;occ; 74; 0;36109
 7; 2296.2; 25-JAN-2009 16:26:55; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;36109
 8; 2411.4; 25-JAN-2009 16:28:50; Bright; 44.0; 17; 78Bet Gem ; 1.16; 4500;occ; 88; 0;36109
 9; 2550.8; 25-JAN-2009 16:31:10; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;36109
10; 2678.3; 25-JAN-2009 16:33:17; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36109
11; 3427.0; 25-JAN-2009 16:45:46; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;36109
12; 3634.4; 25-JAN-2009 16:49:13; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;36109
13; 3909.2; 25-JAN-2009 16:53:48; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;36109

```


14; 4086.1; 25-JAN-2009 16:56:45; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;36109
 15; 4291.4; 25-JAN-2009 17:00:10; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;36109
 16; 4474.7; 25-JAN-2009 17:03:14; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;36109
 17; 4773.9; 25-JAN-2009 17:08:13; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;36109
 18; 4900.6; 25-JAN-2009 17:10:19; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;36109
 19; 5275.2; 25-JAN-2009 17:16:34; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;36109
 20; 5517.9; 25-JAN-2009 17:20:37; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;36109
 21; 5600.9; 25-JAN-2009 17:22:00; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;36109
 22; 5854.4; 25-JAN-2009 17:26:13; Dark ; 40.5; 131; Gam Lup ; 2.80; 26000;occ; 81; 0;36109
 23; 5978.4; 25-JAN-2009 17:28:17; Dark ; 41.5; 109; Bet Lup ; 2.68; 26000;occ; 83; 0;36109
 24; 6084.1; 25-JAN-2009 17:30:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36109
 25; 6184.7; 25-JAN-2009 17:31:44; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;36109
 26; 6280.0; 25-JAN-2009 17:33:19; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;36109
 27; 6459.0; 25-JAN-2009 17:36:18; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;36109
 28; 6556.9; 25-JAN-2009 17:37:56; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36109
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 31; 6937.5; 25-JAN-2009 17:44:16; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;36109

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090125_174446_000061982075_00485_36110_3249.N1

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 2; 1056.8; 25-JAN-2009 17:46:52; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;36110
 3; 1183.1; 25-JAN-2009 17:48:58; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;36110
 4; 1271.3; 25-JAN-2009 17:50:26; Dark ; 39.5; 117; Pi Pup ; 2.71; 3800;occ; 79; 0;36110
 5; 1419.4; 25-JAN-2009 17:52:54; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;36110
 6; 1501.9; 25-JAN-2009 17:54:17; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;36110
 7; 1631.2; 25-JAN-2009 17:56:26; Dark ; 50.5; 1; 9Alp CMa ;-1.44; 11000;occ; 101; 0;36110
 8; 1994.6; 25-JAN-2009 18:02:29; Dark ; 52.0; 8; 10Alp CMI ; 0.40; 6500;occ; 104; 0;36110
 9; 2189.6; 25-JAN-2009 18:05:44; Bright; 37.0; 44; 24Gam Gem ; 1.93; 11000;occ; 74; 0;36110
 10; 2296.9; 25-JAN-2009 18:07:32; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36110
 11; 2411.2; 25-JAN-2009 18:09:26; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;36110
 12; 2550.7; 25-JAN-2009 18:11:46; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36110
 13; 2679.0; 25-JAN-2009 18:13:54; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;36110
 14; 3426.6; 25-JAN-2009 18:26:22; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;36110
 15; 3633.5; 25-JAN-2009 18:29:48; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;36110
 16; 3908.9; 25-JAN-2009 18:34:24; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;36110
 17; 4086.1; 25-JAN-2009 18:37:21; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;36110
 18; 4291.5; 25-JAN-2009 18:40:46; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;36110
 19; 4474.8; 25-JAN-2009 18:43:50; Bright; 58.0; 133; 40Zet Her ; 2.81; 6000;occ; 116; 0;36110
 20; 4774.1; 25-JAN-2009 18:48:49; Bright; 51.0; 59; 55Alp Oph ; 2.08; 8900;occ; 102; 0;36110
 21; 4901.0; 25-JAN-2009 18:50:56; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;36110
 22; 5276.1; 25-JAN-2009 18:57:11; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;36110
 23; 5518.6; 25-JAN-2009 19:01:14; Dark ; 49.0; 16; 21Alp Sco ; 1.02; 3000;occ; 98; 0;36110
 24; 5601.3; 25-JAN-2009 19:02:36; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;36110
 25; 5855.2; 25-JAN-2009 19:06:50; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;36110
 26; 5978.7; 25-JAN-2009 19:08:54; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36110
 27; 6084.7; 25-JAN-2009 19:10:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36110
 28; 6185.3; 25-JAN-2009 19:12:20; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;36110
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 33; 6829.9; 25-JAN-2009 19:23:05; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;36110
 34; 6938.0; 25-JAN-2009 19:24:53; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;36110
 35; 7092.9; 25-JAN-2009 19:27:28; Dark ; 36.5; 34; Gam2Vel ; 1.79; 23000;occ; 73; 0;36110

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090125_192728_000049652075_00486_36111_3250.N1

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 3; 1271.2; 25-JAN-2009 19:31:02; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;36111
 4; 1418.9; 25-JAN-2009 19:33:30; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;36111
 5; 1501.9; 25-JAN-2009 19:34:53; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;36111
 6; 1631.5; 25-JAN-2009 19:37:02; Dark ; 43.0; 1; 9Alp CMa ;-1.44; 11000;occ; 86; 0;36111
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 8; 2189.3; 25-JAN-2009 19:46:20; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 0;36111
 9; 2296.9; 25-JAN-2009 19:48:08; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;36111
 10; 2411.0; 25-JAN-2009 19:50:02; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;36111
 11; 2551.6; 25-JAN-2009 19:52:22; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;36111
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 13; 3426.7; 25-JAN-2009 20:06:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;36111

14; 3633.6; 25-JAN-2009 20:10:24; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;36111
 15; 3908.6; 25-JAN-2009 20:15:00; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;36111
 16; 4086.1; 25-JAN-2009 20:17:57; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;36111
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 19; 4774.3; 25-JAN-2009 20:29:25; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;36111
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 21; 5275.8; 25-JAN-2009 20:37:47; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;36111
 22; 5518.9; 25-JAN-2009 20:41:50; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;36111
 23; 5602.4; 25-JAN-2009 20:43:13; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;36111
 24; 5855.7; 25-JAN-2009 20:47:27; Dark ; 40.5; 131; Gam Lup ; 2.80; 26000;occ; 81; 0;36111
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090127_200100_000041342076_00014_36140_7291.N1

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 3; 1065.5; 27-JAN-2009 20:04:58; Dark ; 38.5; 34; Gam2Vel ; 1.79; 23000;occ; 77; 0;36140
 4; 1191.5; 27-JAN-2009 20:07:04; Dark ; 38.0; 70; Zet Pup ; 2.25; 39000;occ; 76; 0;36140
 5; 1277.4; 27-JAN-2009 20:08:30; Dark ; 42.0; 117; Pi Pup ; 2.71; 3800;occ; 84; 0;36140
 6; 1402.1; 27-JAN-2009 20:10:35; Dark ; 40.0; 88; 31Eta CMa ; 2.45; 20000;occ; 80; 0;36140
 7; 1507.3; 27-JAN-2009 20:12:20; Dark ; 34.5; 179; 240mi2CMa ; 3.03; 24000;occ; 69; 0;36140
 8; 1993.3; 27-JAN-2009 20:20:26; Dark ; 49.5; 8; 10Alp CMi ; 0.40; 6500;occ; 99; 0;36140
 9; 2192.1; 27-JAN-2009 20:23:45; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 0;36140
 10; 2300.6; 27-JAN-2009 20:25:33; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;36140
 11; 2404.3; 27-JAN-2009 20:27:17; Bright; 40.0; 17; 78Bet Gem ; 1.16; 4500;occ; 80; 0;36140
 12; 2556.1; 27-JAN-2009 20:29:49; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36140
 13; 2683.0; 27-JAN-2009 20:31:56; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36140
 14; 3427.3; 27-JAN-2009 20:44:20; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;36140
 15; 3627.4; 27-JAN-2009 20:47:40; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;36140
 16; 3905.2; 27-JAN-2009 20:52:18; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;36140
 17; 4086.6; 27-JAN-2009 20:55:19; Bright; 54.0; 130; 23Bet Dra ; 2.80; 5800;occ; 108; 0;36140
 18; 4296.4; 27-JAN-2009 20:58:49; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;36140
 19; 4479.1; 27-JAN-2009 21:01:52; Bright; 10.0; 133; 40Zet Her ; 2.81; 6000;occ; 20; 0;36140
 20; 4782.0; 27-JAN-2009 21:06:54; Bright; 10.0; 59; 55Alp Oph ; 2.08; 8900;occ; 20; 0;36140
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090127_211521_000060752076_00014_36140_7292.N1

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 3; -420.7; 27-JAN-2009 21:20:48; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;36140
 4; -158.8; 27-JAN-2009 21:25:10; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;36140
 5; -31.5; 27-JAN-2009 21:27:17; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36140
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 7; 165.5; 27-JAN-2009 21:30:34; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;36141
 8; 268.0; 27-JAN-2009 21:32:16; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;36141
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 12; 804.8; 27-JAN-2009 21:41:13; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;36141
 13; 911.9; 27-JAN-2009 21:43:00; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;36141
 14; 1065.6; 27-JAN-2009 21:45:34; Dark ; 38.5; 34; Gam2Vel ; 1.79; 23000;occ; 77; 0;36141
 15; 1191.9; 27-JAN-2009 21:47:40; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;36141
 16; 1277.8; 27-JAN-2009 21:49:06; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;36141
 17; 1402.5; 27-JAN-2009 21:51:11; Dark ; 39.5; 88; 31Eta CMa ; 2.45; 20000;occ; 79; 0;36141
 18; 1507.2; 27-JAN-2009 21:52:56; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;36141
 19; 1993.5; 27-JAN-2009 22:01:02; Dark ; 46.5; 8; 10Alp CMi ; 0.40; 6500;occ; 93; 0;36141
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 21; 2300.8; 27-JAN-2009 22:06:09; Bright; 37.5; 151; 13Mu Gem ; 2.89; 3000;occ; 75; 0;36141
 22; 2403.9; 27-JAN-2009 22:07:52; Bright; 42.0; 17; 78Bet Gem ; 1.16; 4500;occ; 84; 0;36141
 23; 2556.3; 27-JAN-2009 22:10:25; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36141
 24; 2683.2; 27-JAN-2009 22:12:32; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;36141
 25; 3427.4; 27-JAN-2009 22:24:56; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;36141
 26; 3626.9; 27-JAN-2009 22:28:15; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;36141
 27; 3905.3; 27-JAN-2009 22:32:54; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;36141
 28; 4086.8; 27-JAN-2009 22:35:55; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;36141
 29; 4296.6; 27-JAN-2009 22:39:25; Bright; 52.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 104; 0;36141
 30; 4479.4; 27-JAN-2009 22:42:28; Bright; 60.0; 133; 40Zet Her ; 2.81; 6000;occ; 120; 0;36141
 31; 4782.1; 27-JAN-2009 22:47:30; Bright; 54.0; 59; 55Alp Oph ; 2.08; 8900;occ; 108; 0;36141
 32; 4909.5; 27-JAN-2009 22:49:38; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;36141
 33; 5288.7; 27-JAN-2009 22:55:57; Dark ; 39.5; 86; 35Eta Oph ; 2.43; 10200;occ; 79; 0;36141

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090127_225557_000060792076_00015_36141_7293.N1

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 3; -420.1; 27-JAN-2009 23:01:24; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;36141
 4; -158.2; 27-JAN-2009 23:05:46; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;36141
 5; -30.8; 27-JAN-2009 23:07:53; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;36141
 6; 69.3; 27-JAN-2009 23:09:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36142
 7; 165.4; 27-JAN-2009 23:11:10; Dark ; 50.0; 4; Alp1Cen ;-0.01; 5800;occ; 100; 0;36142
 8; 268.7; 27-JAN-2009 23:12:53; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;36142
 9; 440.8; 27-JAN-2009 23:15:45; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;36142
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 12; 805.1; 27-JAN-2009 23:21:49; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;36142
 13; 912.2; 27-JAN-2009 23:23:36; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;36142
 14; 1066.2; 27-JAN-2009 23:26:10; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;36142
 15; 1192.1; 27-JAN-2009 23:28:16; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;36142
 16; 1277.7; 27-JAN-2009 23:29:42; Dark ; 39.5; 117; Pi Pup ; 2.71; 3800;occ; 79; 0;36142
 17; 1402.2; 27-JAN-2009 23:31:46; Dark ; 40.0; 88; 31Eta CMa ; 2.45; 20000;occ; 80; 0;36142
 18; 1507.3; 27-JAN-2009 23:33:32; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;36142
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 22; 2403.7; 27-JAN-2009 23:48:28; Bright; 40.5; 17; 78Bet Gem ; 1.16; 4500;occ; 81; 0;36142
 23; 2556.6; 27-JAN-2009 23:51:01; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;36142
 24; 2683.3; 27-JAN-2009 23:53:08; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;36142
 25; 3427.2; 28-JAN-2009 00:05:31; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36142
 26; 3626.8; 28-JAN-2009 00:08:51; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;36142
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 28; 4086.8; 28-JAN-2009 00:16:31; Bright; 54.0; 130; 23Bet Dra ; 2.80; 5800;occ; 108; 0;36142
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090128_004041_000054612076_00016_36142_7294.N1

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 22; 2556.6; 28-JAN-2009 01:31:37; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;36143
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090128_021112_000045642076_00017_36143_7295.N1

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23; 1278.3; 28-JAN-2009 04:31:30; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;36145
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25; 1508.2; 28-JAN-2009 04:35:20; Dark ; 38.5; 179; 24Omi2CMa ; 3.03; 24000;occ; 77; 0;36145
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26; 6843.3; 28-JAN-2009 09:25:27; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;36147
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 6; 79.2; 29-JAN-2009 00:18:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36157
 7; 173.6; 29-JAN-2009 00:20:17; Dark ; 54.0; 4; Alp1Cen ;-0.01; 5800;occ; 108; 0;36157

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12; 810.3; 29-JAN-2009 00:30:54; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;36157
13; 916.5; 29-JAN-2009 00:32:40; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;36157
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23; 1510.2; 29-JAN-2009 04:03:45; Dark ; 39.5; 179; 24Omi2CMa ; 3.03; 24000;occ; 79; 0;36159

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 21; 6734.5; 29-JAN-2009 13:53:49; Dark ; 36.0; 159; Ups Car ; 2.92; 7200;occ; 72; 0;36164
 22; 6849.1; 29-JAN-2009 13:55:44; Dark ; 46.0; 71; Iot Car ; 2.25; 7700;occ; 92; 0;36164
 23; 6955.1; 29-JAN-2009 13:57:30; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;36164
 24; 7108.0; 29-JAN-2009 14:00:03; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;36164
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 26; 7317.9; 29-JAN-2009 14:03:33; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;36164
 27; 7442.5; 29-JAN-2009 14:05:37; Dark ; 29.5; 88; 31Eta CMa ; 2.45; 20000;occ; 59; 0;36164

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090130_011436_000043812076_00045_36171_7307.N1

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 2; -480.2; 30-JAN-2009 01:18:22; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;36171
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 4; -4.2; 30-JAN-2009 01:26:18; Dark ; 44.0; 109; Bet Lup ; 2.68; 26000;occ; 88; 0;36171
 5; 89.7; 30-JAN-2009 01:27:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36172
 6; 181.7; 30-JAN-2009 01:29:24; Dark ; 52.5; 4; Alp1Cen ; -0.01; 5800;occ; 105; 0;36172
 7; 292.0; 30-JAN-2009 01:31:14; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;36172
 8; 457.3; 30-JAN-2009 01:34:00; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;36172
 9; 572.2; 30-JAN-2009 01:35:55; Dark ; 48.0; 99; Del Cen ; 2.58; 26000;occ; 96; 0;36172

```

10; 700.6; 30-JAN-2009 01:38:03; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;36172
11; 815.6; 30-JAN-2009 01:39:58; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;36172
12; 921.4; 30-JAN-2009 01:41:44; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;36172
13; 1074.0; 30-JAN-2009 01:44:16; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;36172
14; 1199.3; 30-JAN-2009 01:46:22; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;36172
15; 1407.8; 30-JAN-2009 01:49:50; Dark ; 41.5; 88; 31Eta CMa ; 2.45; 20000;occ; 83; 0;36172
16; 1512.2; 30-JAN-2009 01:51:35; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;36172
17; 1992.6; 30-JAN-2009 01:59:35; Dark ; 50.5; 8; 10Alp CMI ; 0.40; 6500;occ; 101; 0;36172
18; 2196.4; 30-JAN-2009 02:02:59; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;36172
19; 2305.4; 30-JAN-2009 02:04:48; Bright; 40.5; 151; 13Mu Gem ; 2.89; 3000;occ; 81; 0;36172
20; 2397.6; 30-JAN-2009 02:06:20; Bright; 43.0; 17; 78Bet Gem ; 1.16; 4500;occ; 86; 0;36172
21; 2688.1; 30-JAN-2009 02:11:10; Bright; 37.5; 42; 34Bet Aur ; 1.90; 10200;occ; 75; 0;36172
22; 3427.5; 30-JAN-2009 02:23:30; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;36172
23; 3619.2; 30-JAN-2009 02:26:41; Bright; 56.5; 60; 7Bet UMi ; 2.08; 3950;occ; 113; 0;36172
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3; -1734.5; 30-JAN-2009 02:38:04; Bright; 33.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 66; 0;36172
4; -1245.0; 30-JAN-2009 02:46:13; Bright; 34.5; 59; 55Alp Oph ; 2.08; 8900;occ; 69; 0;36172
5; -1118.0; 30-JAN-2009 02:48:20; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;36172
6; -733.1; 30-JAN-2009 02:54:45; Dark ; 39.5; 86; 35Eta Oph ; 2.43; 10200;occ; 79; 0;36172
7; -479.4; 30-JAN-2009 02:58:59; Dark ; 47.5; 16; 21Alp Sco ; 1.02; 3000;occ; 95; 0;36172
8; -135.0; 30-JAN-2009 03:04:43; Dark ; 24.0; 131; Gam Lup ; 2.80; 26000;occ; 48; 0;36172
9; -3.8; 30-JAN-2009 03:06:54; Dark ; 43.5; 109; Bet Lup ; 2.68; 26000;occ; 87; 0;36172
10; 90.4; 30-JAN-2009 03:08:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36173
11; 182.3; 30-JAN-2009 03:10:01; Dark ; 26.0; 4; Alp1Cen ; -0.01; 5800;occ; 52; 0;36173
12; 292.9; 30-JAN-2009 03:11:51; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;36173
13; 458.0; 30-JAN-2009 03:14:36; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;36173
14; 573.1; 30-JAN-2009 03:16:31; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;36173
15; 701.1; 30-JAN-2009 03:18:39; Dark ; 37.0; 159; Ups Car ; 2.92; 7200;occ; 74; 0;36173
16; 816.3; 30-JAN-2009 03:20:35; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;36173
17; 921.7; 30-JAN-2009 03:22:20; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;36173
18; 1074.2; 30-JAN-2009 03:24:52; Dark ; 37.5; 34; Gam2Vel ; 1.79; 23000;occ; 75; 0;36173
19; 1199.7; 30-JAN-2009 03:26:58; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;36173
20; 1407.8; 30-JAN-2009 03:30:26; Dark ; 37.0; 88; 31Eta CMa ; 2.45; 20000;occ; 74; 0;36173
21; 1512.8; 30-JAN-2009 03:32:11; Dark ; 36.0; 179; 240mi2CMa ; 3.03; 24000;occ; 72; 0;36173
22; 1992.7; 30-JAN-2009 03:40:11; Dark ; 45.5; 8; 10Alp CMI ; 0.40; 6500;occ; 91; 0;36173
23; 2196.4; 30-JAN-2009 03:43:35; Bright; 36.0; 44; 24Gam Gem ; 1.93; 11000;occ; 72; 0;36173
24; 2305.9; 30-JAN-2009 03:45:24; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;36173
25; 2397.7; 30-JAN-2009 03:46:56; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;36173
26; 2688.5; 30-JAN-2009 03:51:47; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;36173
27; 3427.5; 30-JAN-2009 04:04:06; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;36173
28; 3619.2; 30-JAN-2009 04:07:17; Bright; 26.0; 60; 7Bet UMi ; 2.08; 3950;occ; 52; 0;36173
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090130_040717_000060732076_00047_36173_7309.N1
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2; -2135.8; 30-JAN-2009 04:11:58; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;36173
3; -1948.4; 30-JAN-2009 04:15:06; Bright; 32.5; 130; 23Bet Dra ; 2.80; 5800;occ; 65; 0;36173
4; -1734.2; 30-JAN-2009 04:18:40; Bright; 30.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 60; 0;36173
5; -1245.2; 30-JAN-2009 04:26:49; Bright; 32.0; 59; 55Alp Oph ; 2.08; 8900;occ; 64; 0;36173
6; -1117.4; 30-JAN-2009 04:28:57; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;36173
7; -733.2; 30-JAN-2009 04:35:21; Dark ; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;36173
8; -479.0; 30-JAN-2009 04:39:35; Dark ; 58.0; 16; 21Alp Sco ; 1.02; 3000;occ; 116; 0;36173
9; -133.5; 30-JAN-2009 04:45:21; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;36173
10; -2.1; 30-JAN-2009 04:47:32; Dark ; 42.5; 109; Bet Lup ; 2.68; 26000;occ; 85; 0;36173
11; 91.1; 30-JAN-2009 04:49:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36174
12; 182.4; 30-JAN-2009 04:50:37; Dark ; 55.0; 4; Alp1Cen ; -0.01; 5800;occ; 110; 0;36174
13; 293.6; 30-JAN-2009 04:52:28; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;36174
14; 458.2; 30-JAN-2009 04:55:12; Dark ; 50.5; 12; Alp1Cru ; 0.77; 30000;occ; 101; 0;36174
15; 573.8; 30-JAN-2009 04:57:08; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;36174
16; 701.4; 30-JAN-2009 04:59:16; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;36174
17; 816.4; 30-JAN-2009 05:01:11; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;36174
18; 922.0; 30-JAN-2009 05:02:56; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;36174
19; 1074.5; 30-JAN-2009 05:05:29; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;36174
20; 1200.3; 30-JAN-2009 05:07:35; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;36174
21; 1408.3; 30-JAN-2009 05:11:03; Dark ; 40.0; 88; 31Eta CMa ; 2.45; 20000;occ; 80; 0;36174
22; 1513.1; 30-JAN-2009 05:12:47; Dark ; 35.5; 179; 240mi2CMa ; 3.03; 24000;occ; 71; 0;36174
23; 1992.8; 30-JAN-2009 05:20:47; Dark ; 49.0; 8; 10Alp CMI ; 0.40; 6500;occ; 98; 0;36174
24; 2196.7; 30-JAN-2009 05:24:11; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;36174

```

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25; 2305.8; 30-JAN-2009 05:26:00; Bright; 40.5; 151; 13Mu Gem ; 2.89; 3000;occ; 81; 0;36174
26; 2397.3; 30-JAN-2009 05:27:32; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;36174
27; 2688.5; 30-JAN-2009 05:32:23; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;36174
28; 3427.4; 30-JAN-2009 05:44:42; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;36174
29; 3618.6; 30-JAN-2009 05:47:53; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;36174
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 2; 1076.8; 30-JAN-2009 20:10:55; Dark ; 34.0; 34; Gam2Vel ; 1.79; 23000;occ; 68; 0;36183
 3; 1202.1; 30-JAN-2009 20:13:00; Dark ; 34.0; 70; Zet Pup ; 2.25; 39000;occ; 68; 0;36183
 4; 1468.6; 30-JAN-2009 20:17:26; Dark ; 33.0; 37; 25Del CMa ; 1.83; 5900;occ; 66; 0;36183
 5; 1992.9; 30-JAN-2009 20:26:11; Dark ; 36.0; 8; 10Alp CMi ; 0.40; 6500;occ; 72; 0;36183
 6; 2197.6; 30-JAN-2009 20:29:35; Bright; 35.5; 44; 24Gam Gem ; 1.93; 11000;occ; 71; 0;36183
 7; 2340.0; 30-JAN-2009 20:31:58; Bright; 35.0; 170; 27Eps Gem ; 3.00; 9700;occ; 70; 0;36183
 8; 2457.7; 30-JAN-2009 20:33:56; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;36183
 9; 2690.1; 30-JAN-2009 20:37:48; Bright; 34.0; 42; 34Bet Aur ; 1.90; 10200;occ; 68; 0;36183
10; 3427.3; 30-JAN-2009 20:50:05; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;36183
11; 3616.5; 30-JAN-2009 20:53:14; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;36183
12; 3899.4; 30-JAN-2009 20:57:57; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;36183
13; 4087.7; 30-JAN-2009 21:01:06; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;36183
14; 4303.3; 30-JAN-2009 21:04:41; Bright; 28.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 56; 0;36183
15; 4794.1; 30-JAN-2009 21:12:52; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;36183
16; 4921.4; 30-JAN-2009 21:14:59; Bright; 30.5; 126; 60Bet Oph ; 2.77; 4250;occ; 61; 0;36183
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 4; -126.3; 30-JAN-2009 21:31:27; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;36183
 5; 6.1; 30-JAN-2009 21:33:40; Dark ; 43.5; 109; Bet Lup ; 2.68; 26000;occ; 87; 0;36184
 6; 98.1; 30-JAN-2009 21:35:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36184
 7; 188.1; 30-JAN-2009 21:36:42; Dark ; 38.5; 4; Alp1Cen ;-0.01; 5800;occ; 77; 0;36184
 8; 301.2; 30-JAN-2009 21:38:35; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;36184
 9; 463.3; 30-JAN-2009 21:41:17; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;36184
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11; 819.3; 30-JAN-2009 21:47:13; Dark ; 36.0; 71; Iot Car ; 2.25; 7700;occ; 72; 0;36184
12; 925.1; 30-JAN-2009 21:48:59; Dark ; 34.5; 46; Del Vel ; 1.95; 10600;occ; 69; 0;36184
13; 1077.4; 30-JAN-2009 21:51:31; Dark ; 33.5; 34; Gam2Vel ; 1.79; 23000;occ; 67; 0;36184
14; 1202.2; 30-JAN-2009 21:53:36; Dark ; 34.0; 70; Zet Pup ; 2.25; 39000;occ; 68; 0;36184
15; 1468.7; 30-JAN-2009 21:58:02; Dark ; 33.0; 37; 25Del CMa ; 1.83; 5900;occ; 66; 0;36184
16; 1993.0; 30-JAN-2009 22:06:47; Dark ; 36.0; 8; 10Alp CMi ; 0.40; 6500;occ; 72; 0;36184
17; 2198.0; 30-JAN-2009 22:10:12; Bright; 34.0; 44; 24Gam Gem ; 1.93; 11000;occ; 68; 0;36184
18; 2339.9; 30-JAN-2009 22:12:34; Bright; 36.0; 170; 27Eps Gem ; 3.00; 9700;occ; 72; 0;36184
19; 2457.8; 30-JAN-2009 22:14:32; Bright; 38.0; 24; 66Alp Gem ; 1.58; 10200;occ; 76; 0;36184
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21; 3427.4; 30-JAN-2009 22:30:41; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;36184
22; 3616.2; 30-JAN-2009 22:33:50; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;36184
23; 3898.9; 30-JAN-2009 22:38:33; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;36184
24; 4087.3; 30-JAN-2009 22:41:41; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;36184
25; 4303.3; 30-JAN-2009 22:45:17; Bright; 28.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 57; 0;36184
26; 4794.3; 30-JAN-2009 22:53:28; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;36184
27; 4922.2; 30-JAN-2009 22:55:36; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;36184
28; 5308.2; 30-JAN-2009 23:02:02; Dark ; 10.5; 86; 35Eta Oph ; 2.43; 10200;occ; 21; 0;36184
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090130_230202_000060692076_00058_36184_7312.N1
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 2; -471.6; 30-JAN-2009 23:06:18; Dark ; 38.5; 16; 21Alp Sco ; 1.02; 3000;occ; 77; 0;36184
 3; -333.2; 30-JAN-2009 23:08:36; Dark ; 32.5; 40; The Sco ; 1.86; 7100;occ; 65; 0;36184
 4; -125.4; 30-JAN-2009 23:12:04; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;36184
 5; 7.0; 30-JAN-2009 23:14:17; Dark ; 44.0; 109; Bet Lup ; 2.68; 26000;occ; 88; 0;36185
 6; 98.8; 30-JAN-2009 23:15:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36185
 7; 188.2; 30-JAN-2009 23:17:18; Dark ; 39.0; 4; Alp1Cen ;-0.01; 5800;occ; 78; 0;36185
 8; 302.1; 30-JAN-2009 23:19:12; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;36185
 9; 464.0; 30-JAN-2009 23:21:54; Dark ; 38.5; 12; Alp1Cru ; 0.77; 30000;occ; 77; 0;36185
10; 582.5; 30-JAN-2009 23:23:52; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;36185
11; 704.9; 30-JAN-2009 23:25:54; Dark ; 35.0; 159; Ups Car ; 2.92; 7200;occ; 70; 0;36185
12; 819.5; 30-JAN-2009 23:27:49; Dark ; 35.0; 71; Iot Car ; 2.25; 7700;occ; 70; 0;36185
13; 925.0; 30-JAN-2009 23:29:35; Dark ; 34.5; 46; Del Vel ; 1.95; 10600;occ; 69; 0;36185
14; 1076.9; 30-JAN-2009 23:32:07; Dark ; 34.0; 34; Gam2Vel ; 1.79; 23000;occ; 68; 0;36185
15; 1202.4; 30-JAN-2009 23:34:12; Dark ; 33.5; 70; Zet Pup ; 2.25; 39000;occ; 67; 0;36185
16; 1469.8; 30-JAN-2009 23:38:39; Dark ; 31.5; 37; 25Del CMa ; 1.83; 5900;occ; 63; 0;36185

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17; 1993.2; 30-JAN-2009 23:47:23; Dark ; 35.5; 8; 10Alp CMi ; 0.40; 6500;occ; 71; 0;36185
18; 2197.8; 30-JAN-2009 23:50:47; Bright; 35.5; 44; 24Gam Gem ; 1.93; 11000;occ; 71; 0;36185
19; 2340.1; 30-JAN-2009 23:53:10; Bright; 35.0; 170; 27Eps Gem ; 3.00; 9700;occ; 70; 0;36185
20; 2457.3; 30-JAN-2009 23:55:07; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;36185
21; 2690.7; 30-JAN-2009 23:59:00; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;36185
22; 3427.7; 31-JAN-2009 00:11:17; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;36185
23; 3616.1; 31-JAN-2009 00:14:26; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;36185
24; 3898.6; 31-JAN-2009 00:19:08; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;36185
25; 4087.1; 31-JAN-2009 00:22:17; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;36185
26; 4303.4; 31-JAN-2009 00:25:53; Bright; 28.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 56; 0;36185
27; 4794.4; 31-JAN-2009 00:34:04; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;36185
28; 4922.1; 31-JAN-2009 00:36:12; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;36185
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12; 4919.6; 30-JAN-2009 11:11:22; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;36177
13; 5304.6; 30-JAN-2009 11:17:47; Dark ; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;36177
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16; 5905.1; 30-JAN-2009 11:27:47; Dark ; 44.5; 131; Gam Lup ; 2.80; 26000;occ; 89; 0;36177
17; 6037.0; 30-JAN-2009 11:29:59; Dark ; 42.5; 109; Bet Lup ; 2.68; 26000;occ; 85; 0;36177
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19; 6220.3; 30-JAN-2009 11:33:02; Dark ; 42.0; 4; Alp1Cen ; -0.01; 5800;occ; 84; 0;36177
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23; 6738.6; 30-JAN-2009 11:41:41; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;36177
24; 6853.5; 30-JAN-2009 11:43:36; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;36177
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27; 7236.7; 30-JAN-2009 11:49:59; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;36177
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7; 3427.5; 30-JAN-2009 12:27:06; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;36178
8; 3617.8; 30-JAN-2009 12:30:16; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;36178
9; 3899.8; 30-JAN-2009 12:34:58; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;36178
10; 4087.3; 30-JAN-2009 12:38:05; Bright; 32.5; 130; 23Bet Dra ; 2.80; 5800;occ; 65; 0;36178
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12; 4792.4; 30-JAN-2009 12:49:50; Bright; 32.5; 59; 55Alp Oph ; 2.08; 8900;occ; 65; 0;36178
13; 4919.8; 30-JAN-2009 12:51:58; Bright; 32.5; 126; 60Bet Oph ; 2.77; 4250;occ; 65; 0;36178
14; 5304.9; 30-JAN-2009 12:58:23; Dark ; 39.5; 86; 35Eta Oph ; 2.43; 10200;occ; 79; 0;36178
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5; 99.5; 31-JAN-2009 00:56:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36186
6; 188.7; 31-JAN-2009 00:57:54; Dark ; 39.0; 4; Alp1Cen ; -0.01; 5800;occ; 78; 0;36186

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11; 820.4; 31-JAN-2009 01:08:26; Dark ; 34.5; 71; Iot Car ; 2.25; 7700;occ; 69; 0;36186
12; 926.0; 31-JAN-2009 01:10:11; Dark ; 33.5; 46; Del Vel ; 1.95; 10600;occ; 67; 0;36186
13; 1077.6; 31-JAN-2009 01:12:43; Dark ; 33.5; 34; Gam2Vel ; 1.79; 23000;occ; 67; 0;36186
14; 1202.9; 31-JAN-2009 01:14:48; Dark ; 33.5; 70; Zet Pup ; 2.25; 39000;occ; 67; 0;36186
15; 1410.4; 31-JAN-2009 01:18:16; Dark ; 32.5; 88; 31Eta CMa ; 2.45; 20000;occ; 65; 0;36186
16; 1992.9; 31-JAN-2009 01:27:58; Dark ; 35.5; 8; 10Alp CMi ; 0.40; 6500;occ; 71; 0;36186
17; 2197.7; 31-JAN-2009 01:31:23; Bright; 34.0; 44; 24Gam Gem ; 1.93; 11000;occ; 68; 0;36186
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21; 3427.5; 31-JAN-2009 01:51:53; Bright; 31.5; 49; 1Alp UMi ; 1.99; 6300;occ; 63; 0;36186
22; 3615.8; 31-JAN-2009 01:55:01; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;36186
23; 3898.4; 31-JAN-2009 01:59:44; Bright; 32.0; 119; 14Eta Dra ; 2.73; 4700;occ; 64; 0;36186
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12; 820.7; 31-JAN-2009 02:49:02; Dark ; 33.0; 71; Iot Car ; 2.25; 7700;occ; 66; 0;36187
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12; 100.9; 31-JAN-2009 04:17:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36188
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14; 304.3; 31-JAN-2009 04:21:02; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;36188
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16; 584.4; 31-JAN-2009 04:25:42; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;36188
17; 705.5; 31-JAN-2009 04:27:43; Dark ; 33.5; 159; Ups Car ; 2.92; 7200;occ; 67; 0;36188
18; 821.4; 31-JAN-2009 04:29:39; Dark ; 32.5; 71; Iot Car ; 2.25; 7700;occ; 65; 0;36188
19; 926.4; 31-JAN-2009 04:31:24; Dark ; 32.5; 46; Del Vel ; 1.95; 10600;occ; 65; 0;36188
20; 1078.2; 31-JAN-2009 04:33:56; Dark ; 32.0; 34; Gam2Vel ; 1.79; 23000;occ; 64; 0;36188

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26; 2456.9; 31-JAN-2009 04:56:54; Bright; 34.5; 24; 66Alp Gem ; 1.58; 10200;occ; 69; 0;36188
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10; 10.6; 31-JAN-2009 05:56:44; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;36189
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12; 190.4; 31-JAN-2009 05:59:44; Dark ; 35.5; 4; Alp1Cen ; -0.01; 5800;occ; 71; 0;36189
13; 305.4; 31-JAN-2009 06:01:39; Dark ; 38.0; 77; Eps Cen ; 2.30; 28000;occ; 76; 0;36189
14; 466.3; 31-JAN-2009 06:04:20; Dark ; 34.5; 12; Alp1Cru ; 0.77; 30000;occ; 69; 0;36189
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19; 1077.8; 31-JAN-2009 06:14:31; Dark ; 31.5; 34; Gam2Vel ; 1.79; 23000;occ; 63; 0;36189
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24; 2340.4; 31-JAN-2009 06:35:34; Bright; 32.0; 170; 27Eps Gem ; 3.00; 9700;occ; 64; 0;36189
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26; 3427.6; 31-JAN-2009 06:53:41; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36189
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15; 1205.4; 31-JAN-2009 21:22:02; Dark ; 29.5; 70; Zet Pup ; 2.25; 39000;occ; 59; 0;36198

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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090131_095059_000054832076_00065_36191_3290.N1

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|-----|---------|-------------|-----------|------|---|-------|------|-----------|---|--------|------------|------|----|-------|
| 15; | 5917.0; | 31-JAN-2009 | 12:36:58; | Dark | ; | 36.5; | 131; | Gam Lup | ; | 2.80; | 26000;occ; | 73; | 0; | 36192 |
| 16; | 6050.0; | 31-JAN-2009 | 12:39:11; | Dark | ; | 39.0; | 109; | Bet Lup | ; | 2.68; | 26000;occ; | 78; | 0; | 36192 |
| 17; | 6140.3; | 31-JAN-2009 | 12:40:41; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0;occ; | 119; | 0; | 36192 |
| 18; | 6228.2; | 31-JAN-2009 | 12:42:09; | Dark | ; | 34.5; | 4; | Alp1Cen | ; | -0.01; | 5800;occ; | 69; | 0; | 36192 |
| 19; | 6344.6; | 31-JAN-2009 | 12:44:06; | Dark | ; | 37.5; | 77; | Eps Cen | ; | 2.30; | 28000;occ; | 75; | 0; | 36192 |
| 20; | 6504.4; | 31-JAN-2009 | 12:46:46; | Dark | ; | 34.0; | 12; | Alp1Cru | ; | 0.77; | 30000;occ; | 68; | 0; | 36192 |
| 21; | 6624.7; | 31-JAN-2009 | 12:48:46; | Dark | ; | 39.0; | 99; | Del Cen | ; | 2.58; | 26000;occ; | 78; | 0; | 36192 |
| 22; | 6743.6; | 31-JAN-2009 | 12:50:45; | Dark | ; | 31.5; | 159; | Ups Car | ; | 2.92; | 7200;occ; | 63; | 0; | 36192 |
| 23; | 6858.6; | 31-JAN-2009 | 12:52:40; | Dark | ; | 31.5; | 71; | Iot Car | ; | 2.25; | 7700;occ; | 63; | 0; | 36192 |
| 24; | 6963.8; | 31-JAN-2009 | 12:54:25; | Dark | ; | 31.0; | 46; | Del Vel | ; | 1.95; | 10600;occ; | 62; | 0; | 36192 |
| 25; | 7115.0; | 31-JAN-2009 | 12:56:56; | Dark | ; | 30.5; | 34; | Gam2Vel | ; | 1.79; | 23000;occ; | 61; | 0; | 36192 |
| 26; | 7240.2; | 31-JAN-2009 | 12:59:01; | Dark | ; | 31.0; | 70; | Zet Pup | ; | 2.25; | 39000;occ; | 62; | 0; | 36192 |
| 27; | 7447.5; | 31-JAN-2009 | 13:02:29; | Dark | ; | 29.5; | 88; | 31Eta CMa | ; | 2.45; | 20000;occ; | 59; | 0; | 36192 |