

GOMOS Daily Report 03-OCT-2006

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 actual month \(see template here\)](#)

[2.2 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 2.2](#)

[Level 2 products](#)

1. General Info

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 | 05OCT2006 05:32:13 |
| Data source version | GOMOS/5.00 |
| Start time of products | QDS_YESTERDAY(/START)-1D (03OCT2006 00:00:00) |
| Stop time of products | QDS_YESTERDAY(/STOP)-1D (04OCT2006 00:00:00) |
| Store outputs in DB | Yes |
| Nb of level 1b prods | 50 |
| Nb of prods with errors | 0 |

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

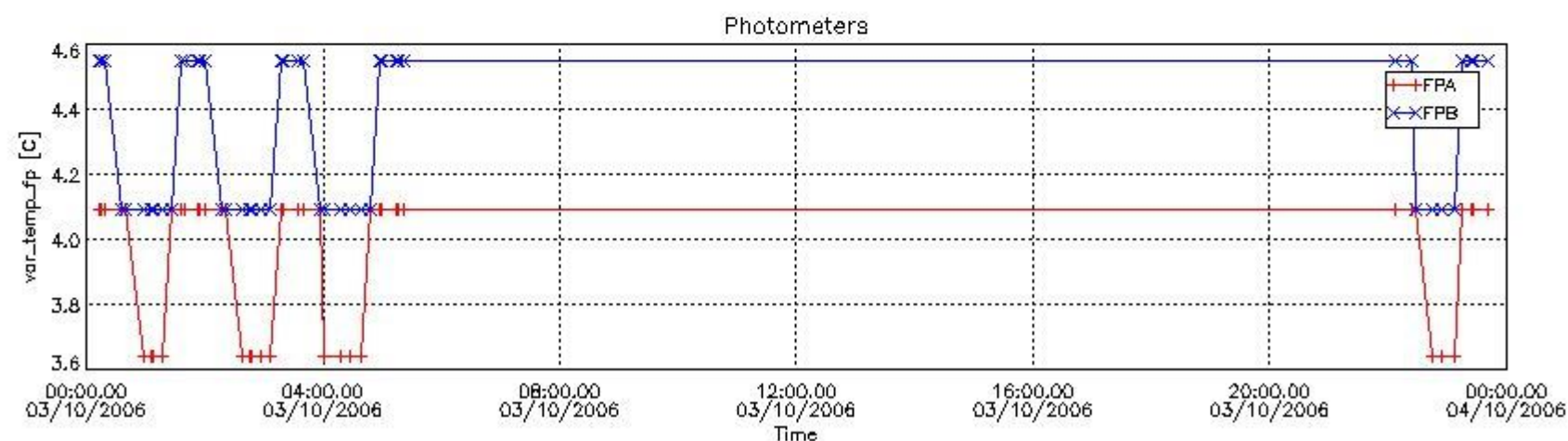
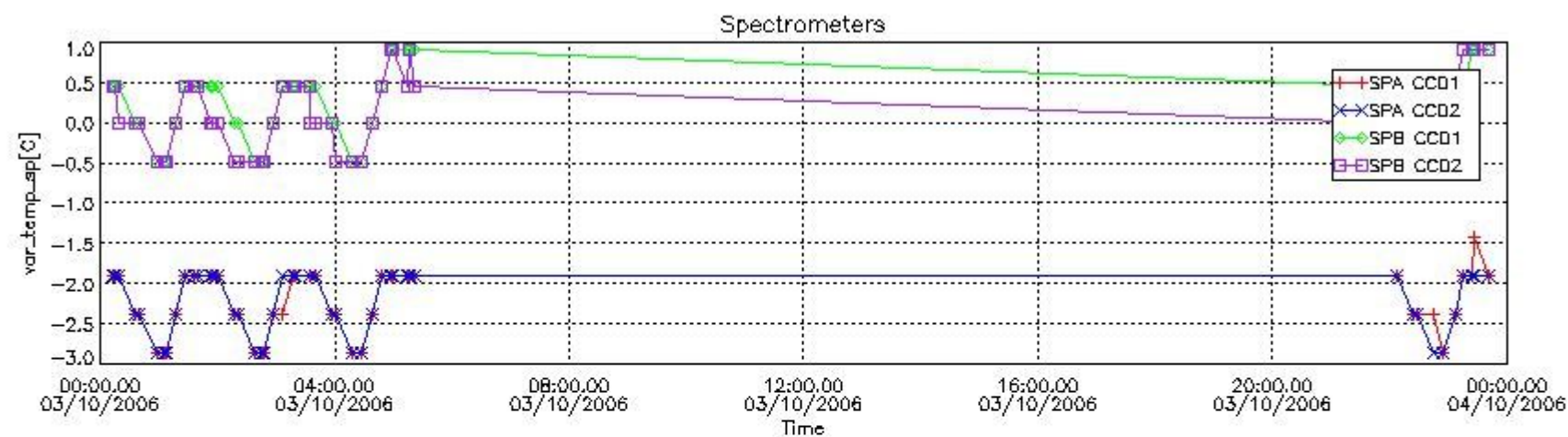
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 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_1PNPDE20061003_001243_000000382051_00403_24004_1446.N1 | 03-OCT-2006 00:12:43 | Dark | 37.500 | 143 | Alp Hyi | 2.8570 | 7200.0 | 75 | 24004 | No |
| 2 | GOM_TRA_1PNPDE20061003_001411_000000452051_00403_24004_1447.N1 | 03-OCT-2006 00:14:11 | Dark | 45.000 | 9 | Alp Eri | 0.45300 | 24000. | 90 | 24004 | No |
| 3 | GOM_TRA_1PNPDE20061003_001930_000000392051_00403_24004_1448.N1 | 03-OCT-2006 00:19:30 | Straylight | 39.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 78 | 24004 | No |
| 4 | GOM_TRA_1PNPDE20061003_003631_000000362051_00403_24004_1438.N1 | 03-OCT-2006 00:36:31 | Bright | 36.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 72 | 24004 | No |
| 5 | GOM_TRA_1PNPDE20061003_004008_000000372051_00403_24004_1439.N1 | 03-OCT-2006 00:40:08 | Bright | 37.000 | 93 | 53Bet Peg | 2.5200 | 3100.0 | 74 | 24004 | No |
| 6 | GOM_TRA_1PNPDE20061003_005730_000000362051_00403_24004_1440.N1 | 03-OCT-2006 00:57:30 | Bright | 36.000 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 72 | 24004 | No |
| 7 | GOM_TRA_1PNPDE20061003_010530_000000372051_00403_24004_1441.N1 | 03-OCT-2006 01:05:30 | Bright | 36.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 73 | 24004 | No |
| 8 | GOM_TRA_1PNPDE20061003_010700_000000362051_00403_24004_1442.N1 | 03-OCT-2006 01:07:00 | Bright | 35.500 | 82 | 48Bet UMa | 2.3650 | 10600. | 71 | 24004 | No |
| 9 | GOM_TRA_1PNPDE20061003_011654_000000352051_00403_24004_1443.N1 | 03-OCT-2006 01:16:54 | Bright | 35.000 | 166 | 17Eps Leo | 2.9800 | 6000.0 | 70 | 24004 | No |
| 10 | GOM_TRA_1PNPDE20061003_012633_000000492051_00403_24004_1444.N1 | 03-OCT-2006 01:26:33 | Twilight | 48.500 | 48 | 30Alp Hya | 1.9770 | 4100.0 | 97 | 24004 | No |
| 11 | GOM_TRA_1PNPDE20061003_013614_000000422051_00403_24004_1445.N1 | 03-OCT-2006 01:36:14 | Dark | 41.500 | 65 | Lam Vel | 2.2040 | 4400.0 | 83 | 24004 | No |
| 12 | GOM_TRA_1PNPDE20061003_013854_000000432051_00403_24004_1446.N1 | 03-OCT-2006 01:38:54 | Dark | 42.500 | 34 | Gam2Vel | 1.7930 | 23000. | 85 | 24004 | No |
| 13 | GOM_TRA_1PNPDE20061003_015319_000000382051_00404_24005_1447.N1 | 03-OCT-2006 01:53:19 | Dark | 38.000 | 143 | Alp Hyi | 2.8570 | 7200.0 | 76 | 24005 | No |
| 14 | GOM_TRA_1PNPDE20061003_015447_000000462051_00404_24005_1448.N1 | 03-OCT-2006 01:54:47 | Dark | 45.500 | 9 | Alp Eri | 0.45300 | 24000. | 91 | 24005 | No |
| 15 | GOM_TRA_1PNPDE20061003_020006_000000382051_00404_24005_1449.N1 | 03-OCT-2006 02:00:06 | Straylight | 38.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 76 | 24005 | No |
| 16 | GOM_TRA_1PNPDE20061003_021707_000000372051_00404_24005_1437.N1 | 03-OCT-2006 02:17:07 | Bright | 36.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 73 | 24005 | No |
| 17 | GOM_TRA_1PNPDE20061003_022044_000000372051_00404_24005_1438.N1 | 03-OCT-2006 02:20:44 | Bright | 37.000 | 93 | 53Bet Peg | 2.5200 | 3100.0 | 74 | 24005 | No |
| 18 | GOM_TRA_1PNPDE20061003_023805_000000362051_00404_24005_1439.N1 | 03-OCT-2006 02:38:05 | Bright | 35.500 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 71 | 24005 | No |
| 19 | GOM_TRA_1PNPDE20061003_024606_000000372051_00404_24005_1440.N1 | 03-OCT-2006 02:46:06 | Bright | 37.000 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 74 | 24005 | No |
| 20 | GOM_TRA_1PNPDE20061003_024736_000000432051_00404_24005_1441.N1 | 03-OCT-2006 02:47:36 | Bright | 43.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 86 | 24005 | No |
| 21 | GOM_TRA_1PNPDE20061003_025730_000000352051_00404_24005_1442.N1 | 03-OCT-2006 02:57:30 | Bright | 34.500 | 166 | 17Eps Leo | 2.9800 | 6000.0 | 69 | 24005 | No |
| 22 | GOM_TRA_1PNPDE20061003_030710_000000472051_00404_24005_1443.N1 | 03-OCT-2006 03:07:10 | Twilight | 46.500 | 48 | 30Alp Hya | 1.9770 | 4100.0 | 93 | 24005 | No |
| 23 | GOM_TRA_1PNPDE20061003_031650_000000472051_00404_24005_1444.N1 | 03-OCT-2006 03:16:50 | Dark | 47.000 | 65 | Lam Vel | 2.2040 | 4400.0 | 94 | 24005 | No |
| 24 | GOM_TRA_1PNPDE20061003_031930_000000422051_00404_24005_1445.N1 | 03-OCT-2006 03:19:30 | Dark | 41.500 | 34 | Gam2Vel | 1.7930 | 23000. | 83 | 24005 | No |
| 25 | GOM_TRA_1PNPDE20061003_033356_000000392051_00405_24006_1446.N1 | 03-OCT-2006 03:33:56 | Dark | 39.000 | 143 | Alp Hyi | 2.8570 | 7200.0 | 78 | 24006 | No |
| 26 | GOM_TRA_1PNPDE20061003_033523_000000502051_00405_24006_1447.N1 | 03-OCT-2006 03:35:23 | Dark | 49.500 | 9 | Alp Eri | 0.45300 | 24000. | 99 | 24006 | No |
| 27 | GOM_TRA_1PNPDE20061003_034042_000000422051_00405_24006_1448.N1 | 03-OCT-2006 03:40:42 | Straylight | 42.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 84 | 24006 | No |
| 28 | GOM_TRA_1PNPDE20061003_035743_000000362051_00405_24006_1439.N1 | 03-OCT-2006 03:57:43 | Bright | 36.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 72 | 24006 | No |
| 29 | GOM_TRA_1PNPDE20061003_040120_000000372051_00405_24006_1440.N1 | 03-OCT-2006 04:01:20 | Bright | 36.500 | 93 | 53Bet Peg | 2.5200 | 3100.0 | 73 | 24006 | No |
| 30 | GOM_TRA_1PNPDE20061003_041841_000000362051_00405_24006_1441.N1 | 03-OCT-2006 04:18:41 | Bright | 36.000 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 72 | 24006 | No |
| 31 | GOM_TRA_1PNPDE20061003_042642_000000372051_00405_24006_1442.N1 | 03-OCT-2006 04:26:42 | Bright | 36.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 73 | 24006 | No |
| 32 | GOM_TRA_1PNPDE20061003_042812_000000522051_00405_24006_1443.N1 | 03-OCT-2006 04:28:12 | Bright | 52.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 104 | 24006 | No |
| 33 | GOM_TRA_1PNPDE20061003_043807_000000362051_00405_24006_1444.N1 | 03-OCT-2006 04:38:07 | Bright | 35.500 | 166 | 17Eps Leo | 2.9800 | 6000.0 | 71 | 24006 | No |
| 34 | GOM_TRA_1PNPDE20061003_044746_000000462051_00405_24006_1445.N1 | 03-OCT-2006 04:47:46 | Twilight | 45.500 | 48 | 30Alp Hya | 1.9770 | 4100.0 | 91 | 24006 | No |
| 35 | GOM_TRA_1PNPDE20061003_045726_000000512051_00405_24006_1446.N1 | 03-OCT-2006 04:57:26 | Dark | 50.500 | 65 | Lam Vel | 2.2040 | 4400.0 | 101 | 24006 | No |
| 36 | GOM_TRA_1PNPDE20061003_050007_000000422051_00405_24006_1447.N1 | 03-OCT-2006 05:00:07 | Dark | 41.500 | 34 | Gam2Vel | 1.7930 | 23000. | 83 | 24006 | No |
| 37 | GOM_TRA_1PNPDE20061003_051432_000000392051_00406_24007_1448.N1 | 03-OCT-2006 05:14:32 | Dark | 38.500 | 143 | Alp Hyi | 2.8570 | 7200.0 | 77 | 24007 | No |
| 38 | GOM_TRA_1PNPDE20061003_051600_000000442051_00406_24007_1449.N1 | 03-OCT-2006 05:16:00 | Dark | 43.500 | 9 | Alp Eri | 0.45300 | 24000. | 87 | 24007 | No |
| 39 | GOM_TRA_1PNPDE20061003_052119_000000422051_00406_24007_1450.N1 | 03-OCT-2006 05:21:19 | Straylight | 42.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 84 | 24007 | No |
| 40 | GOM_TRA_1PNPDE20061003_220721_000000422051_00416_24017_1444.N1 | 03-OCT-2006 22:07:21 | Straylight | 42.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 84 | 24017 | No |
| 41 | GOM_TRA_1PNPDE20061003_222419_000000372051_00416_24017_1445.N1 | 03-OCT-2006 22:24:19 | Bright | 36.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 73 | 24017 | No |
| 42 | GOM_TRA_1PNPDE20061003_222756_000000372051_00416_24017_1446.N1 | 03-OCT-2006 22:27:56 | Bright | 36.500 | 93 | 53Bet Peg | 2.5200 | 3100.0 | 73 | 24017 | No |

| | | | | | | | | | | | |
|----|--|----------------------|----------|--------|-----|-----------|--------|--------|-----|-------|----|
| 43 | GOM_TRA_1PNPDE20061003_224517_000000322051_00416_24017_1447.N1 | 03-OCT-2006 22:45:17 | Bright | 31.500 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 63 | 24017 | No |
| 44 | GOM_TRA_1PNPDE20061003_225318_000000372051_00416_24017_1448.N1 | 03-OCT-2006 22:53:18 | Bright | 37.000 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 74 | 24017 | No |
| 45 | GOM_TRA_1PNPDE20061003_225449_000000352051_00416_24017_1449.N1 | 03-OCT-2006 22:54:49 | Bright | 35.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 70 | 24017 | No |
| 46 | GOM_TRA_1PNPDE20061003_230749_000000342051_00416_24017_1450.N1 | 03-OCT-2006 23:07:49 | Bright | 33.500 | 22 | 32Alp Leo | 1.3600 | 15200. | 67 | 24017 | No |
| 47 | GOM_TRA_1PNPDE20061003_231426_000000522051_00416_24017_1451.N1 | 03-OCT-2006 23:14:26 | Twilight | 52.000 | 48 | 30Alp Hya | 1.9770 | 4100.0 | 104 | 24017 | No |
| 48 | GOM_TRA_1PNPDE20061003_232406_000000462051_00416_24017_1452.N1 | 03-OCT-2006 23:24:06 | Dark | 46.000 | 65 | Lam Vel | 2.2040 | 4400.0 | 92 | 24017 | No |
| 49 | GOM_TRA_1PNPDE20061003_232648_000000452051_00416_24017_1453.N1 | 03-OCT-2006 23:26:48 | Dark | 44.500 | 34 | Gam2Vel | 1.7930 | 23000. | 89 | 24017 | No |
| 50 | GOM_TRA_1PNPDE20061003_234111_000000382051_00417_24018_1454.N1 | 03-OCT-2006 23:41:11 | Dark | 37.500 | 143 | Alp Hyi | 2.8570 | 7200.0 | 75 | 24018 | No |

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



4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

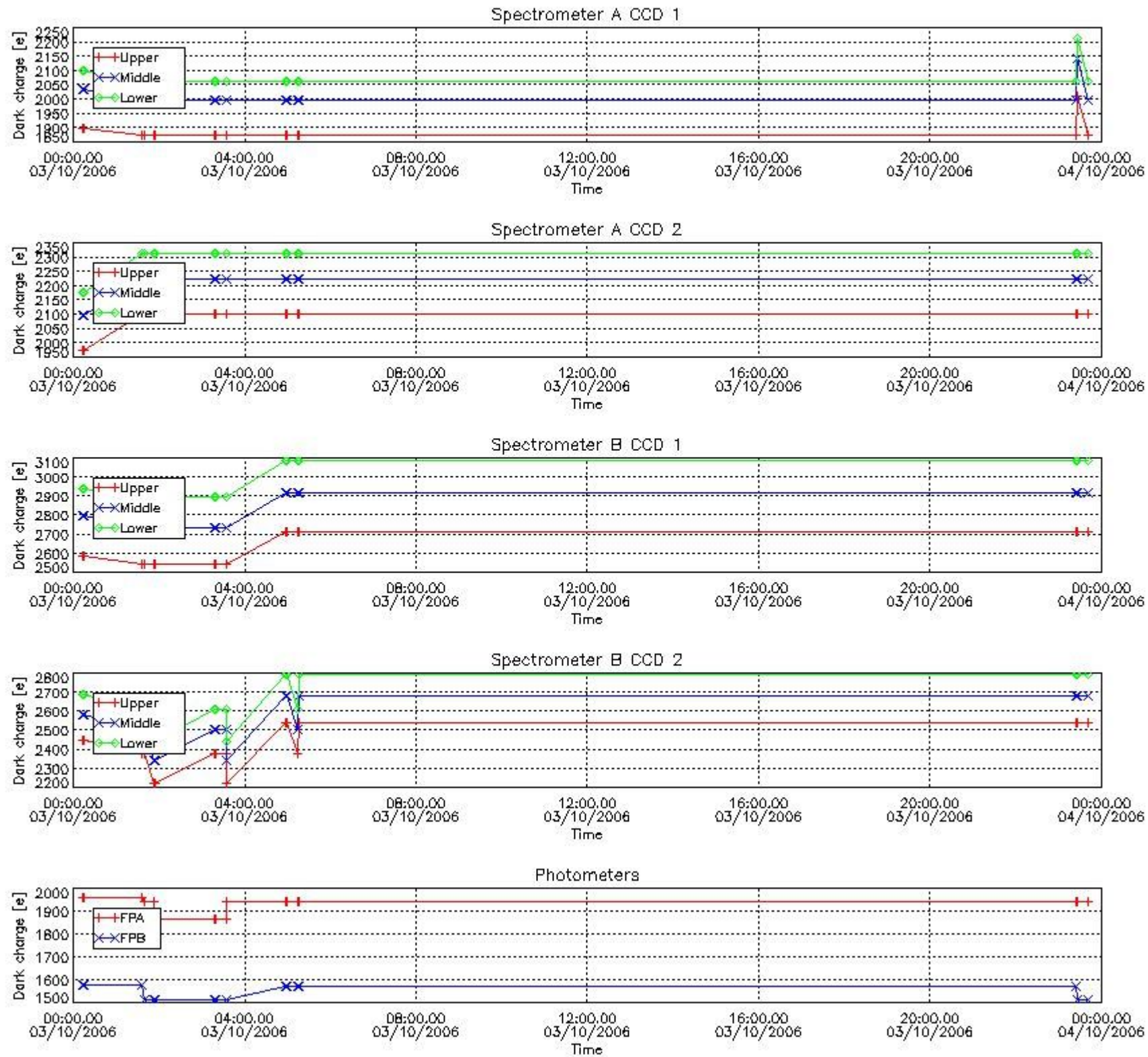
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

| Product name | DC information |
|--|----------------|
| GOM_TRA_1PNPDE20061003_001243_000000382051_00403_24004_1446.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_001411_000000452051_00403_24004_1447.N1 | DC map used |

| | |
|--|-------------|
| GOM_TRA_1PNPDE20061003_001930_000000392051_00403_24004_1448.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_003631_000000362051_00403_24004_1438.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_004008_000000372051_00403_24004_1439.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_005730_000000362051_00403_24004_1440.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_010530_000000372051_00403_24004_1441.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_010700_000000362051_00403_24004_1442.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_011654_000000352051_00403_24004_1443.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_012633_000000492051_00403_24004_1444.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_013614_000000422051_00403_24004_1445.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_013854_000000432051_00403_24004_1446.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_015319_000000382051_00404_24005_1447.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_015447_000000462051_00404_24005_1448.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_020006_000000382051_00404_24005_1449.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_021707_000000372051_00404_24005_1437.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_022044_000000372051_00404_24005_1438.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_023805_000000362051_00404_24005_1439.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_024606_000000372051_00404_24005_1440.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_024736_000000432051_00404_24005_1441.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_025730_000000352051_00404_24005_1442.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_030710_000000472051_00404_24005_1443.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_031650_000000472051_00404_24005_1444.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_031930_000000422051_00404_24005_1445.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_033356_000000392051_00405_24006_1446.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_033523_000000502051_00405_24006_1447.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_034042_000000422051_00405_24006_1448.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_035743_000000362051_00405_24006_1439.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_040120_000000372051_00405_24006_1440.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_041841_000000362051_00405_24006_1441.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_042642_000000372051_00405_24006_1442.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_042812_000000522051_00405_24006_1443.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_043807_000000362051_00405_24006_1444.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_044746_000000462051_00405_24006_1445.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_045726_000000512051_00405_24006_1446.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_050007_000000422051_00405_24006_1447.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_051432_000000392051_00406_24007_1448.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_051600_000000442051_00406_24007_1449.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_052119_000000422051_00406_24007_1450.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_220721_000000422051_00416_24017_1444.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_222419_000000372051_00416_24017_1445.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_222756_000000372051_00416_24017_1446.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_224517_000000322051_00416_24017_1447.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_225318_000000372051_00416_24017_1448.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_225449_000000352051_00416_24017_1449.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_230749_000000342051_00416_24017_1450.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_231426_000000522051_00416_24017_1451.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_232406_000000462051_00416_24017_1452.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_232648_000000452051_00416_24017_1453.N1 | DC map used |
| GOM_TRA_1PNPDE20061003_234111_000000382051_00417_24018_1454.N1 | DC map used |

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



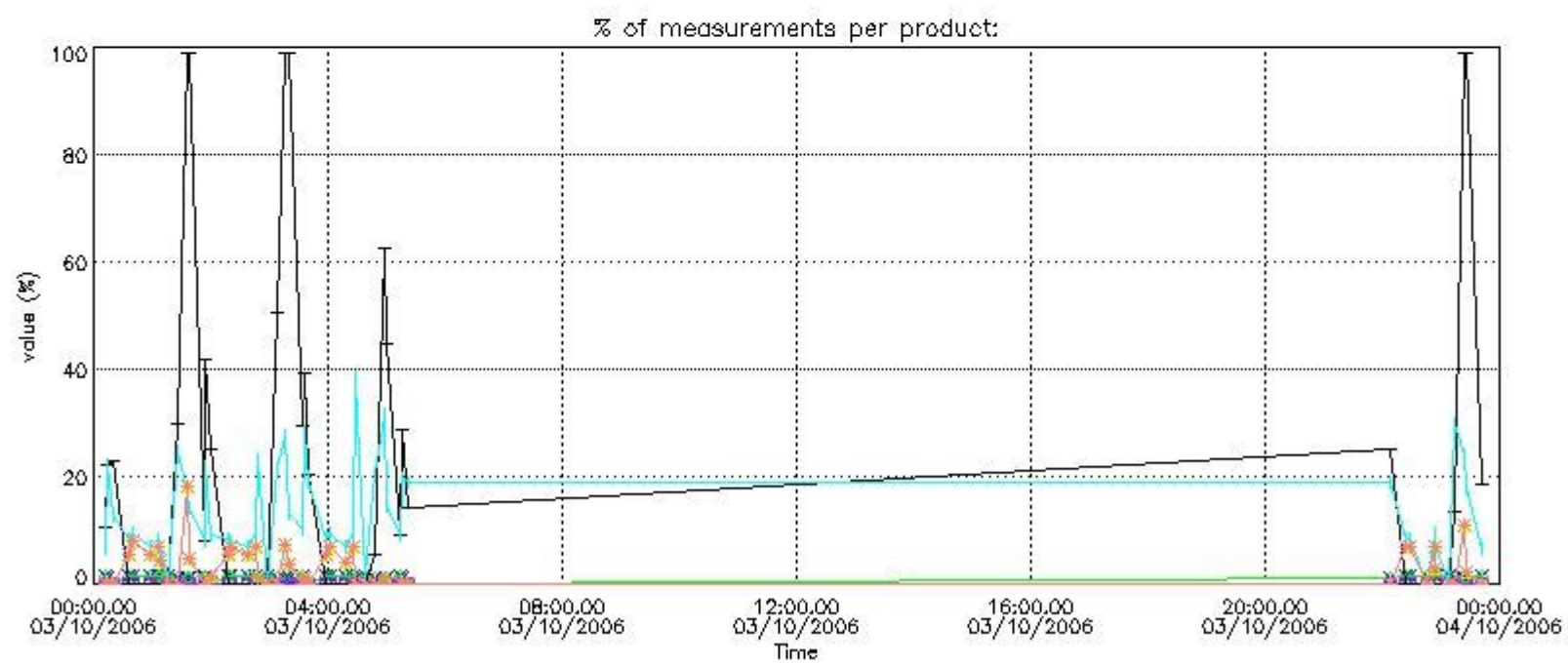
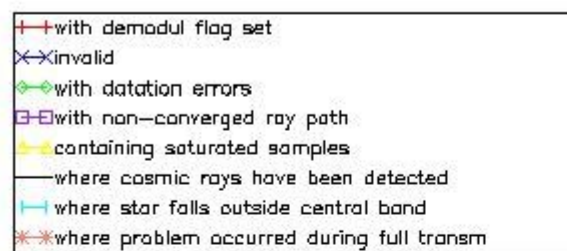
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

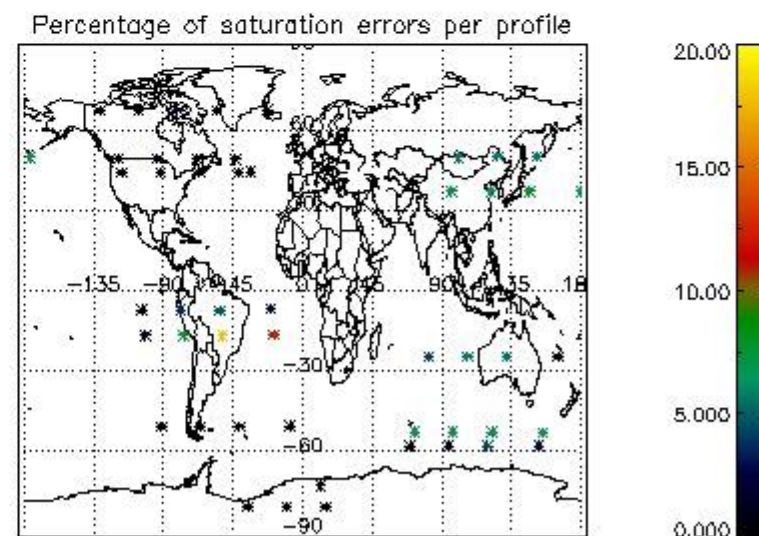
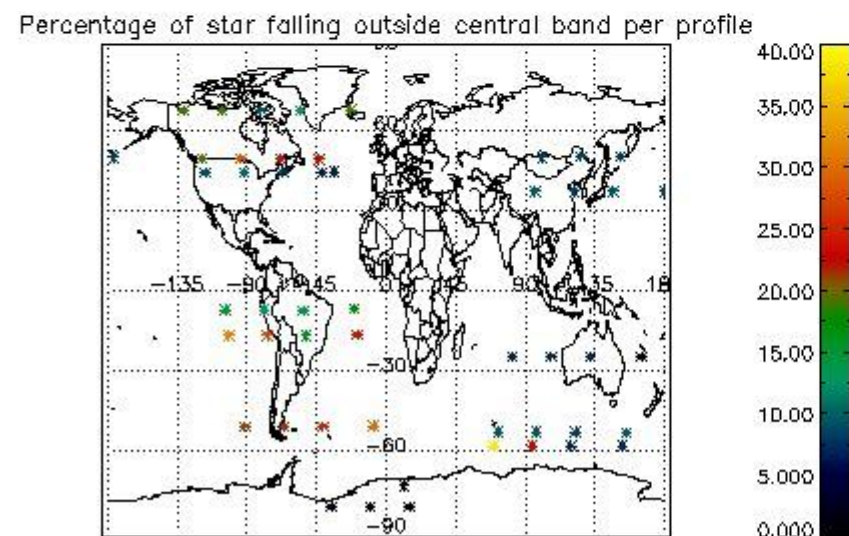
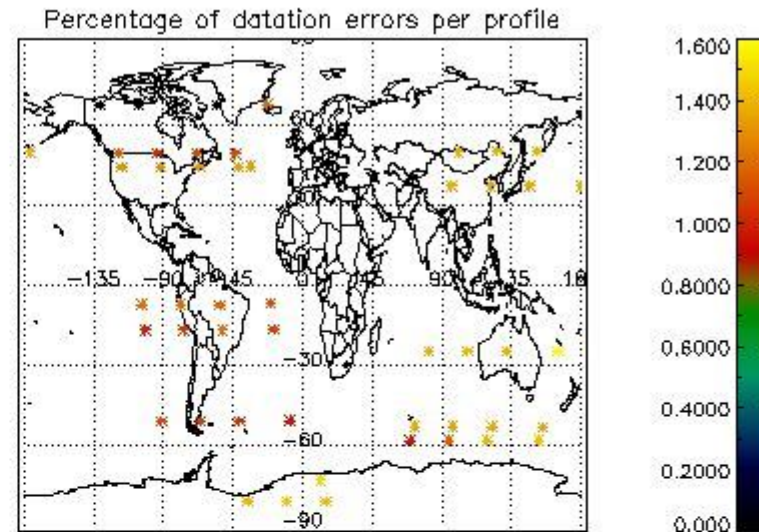
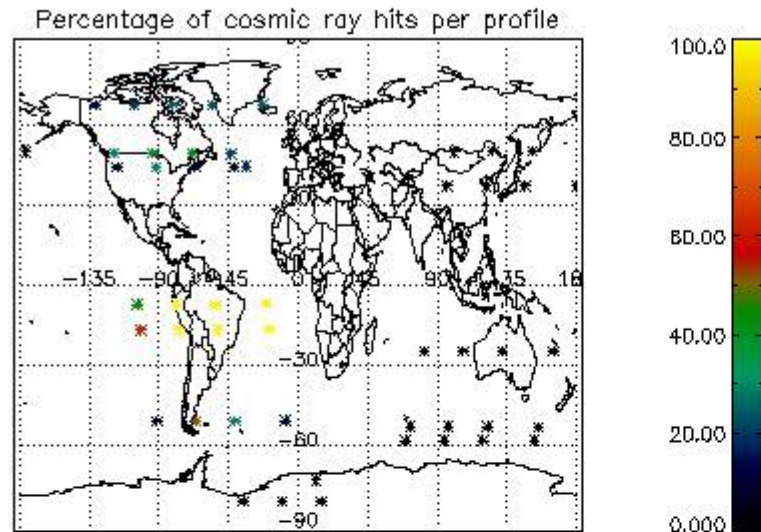
5.1 Percentage of products during reporting period with:

| | |
|---|-----------|
| At least one measurement with demodulation flag set: | 16.0000 % |
| Reference spectrum computed from DB: | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used: | 0.00000 % |

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



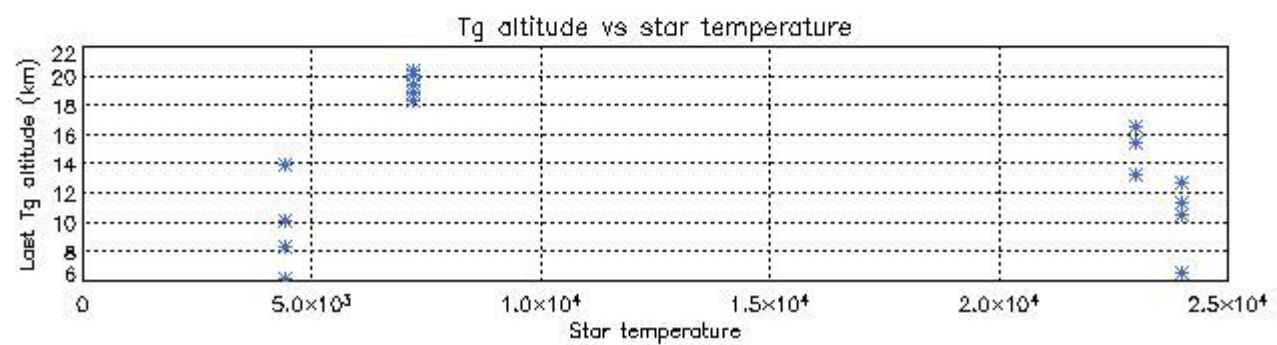
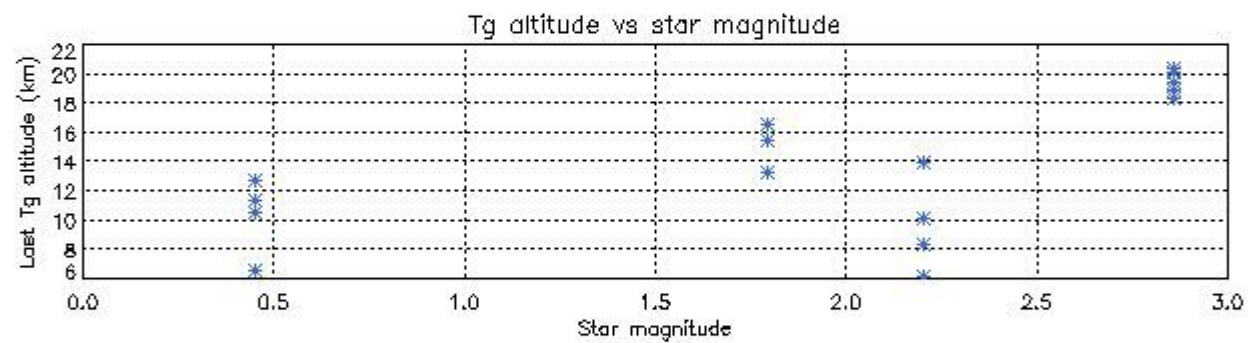
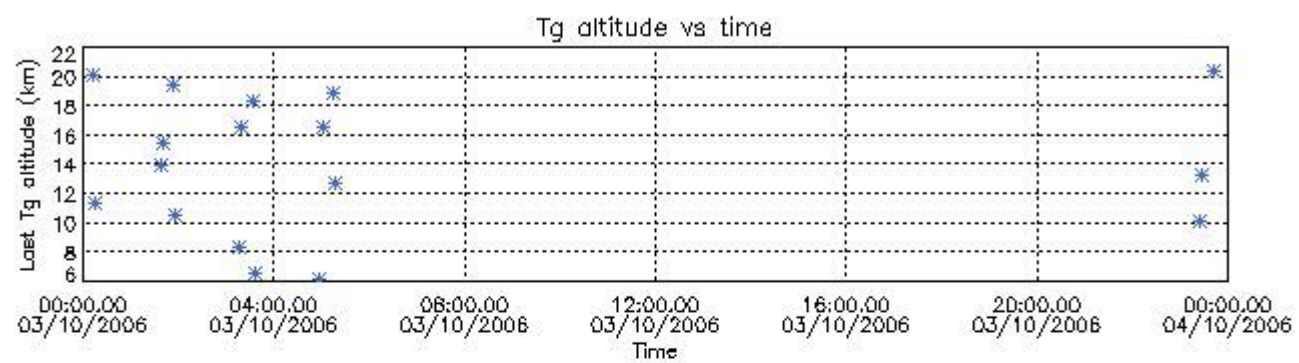
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean: | 14.019 | 19.958 | 9.2421 |
| St. deviation: | 4.6903 | 5.2474 | 1.9777 |
| Maximum: | 20.328 | 30.627 | 11.259 |
| Minimum: | 6.1020 | 3.4699 | 6.6943 |
| Number of data: | 17.000 | 24.000 | 4.0000 |

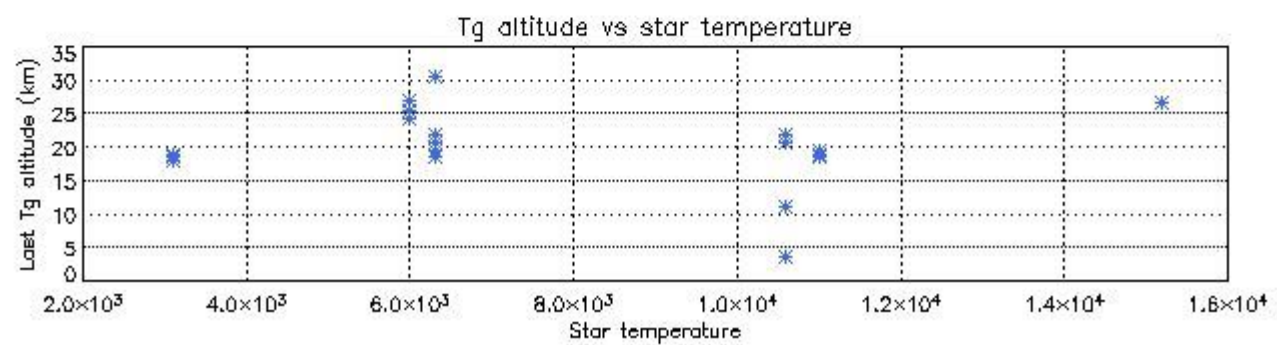
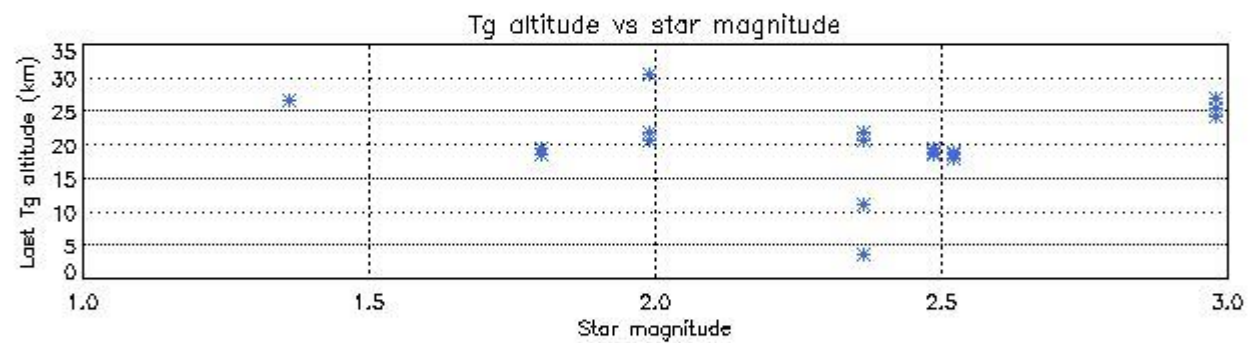
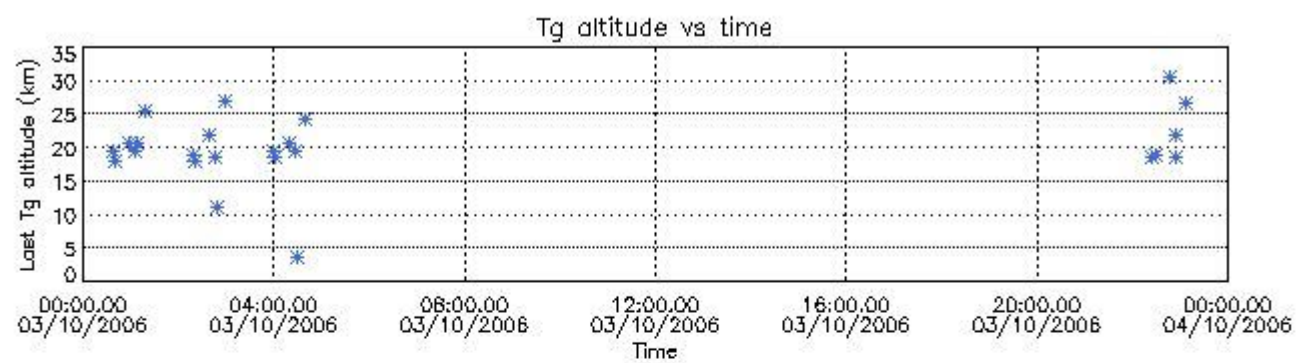
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



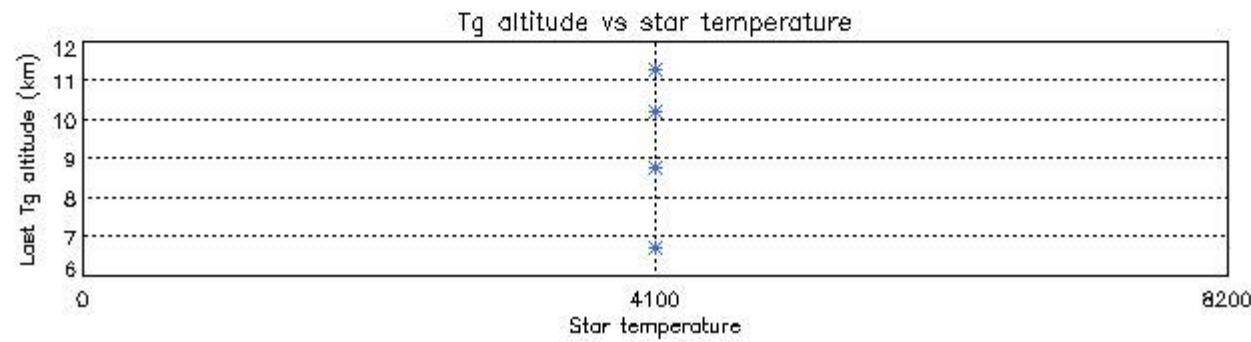
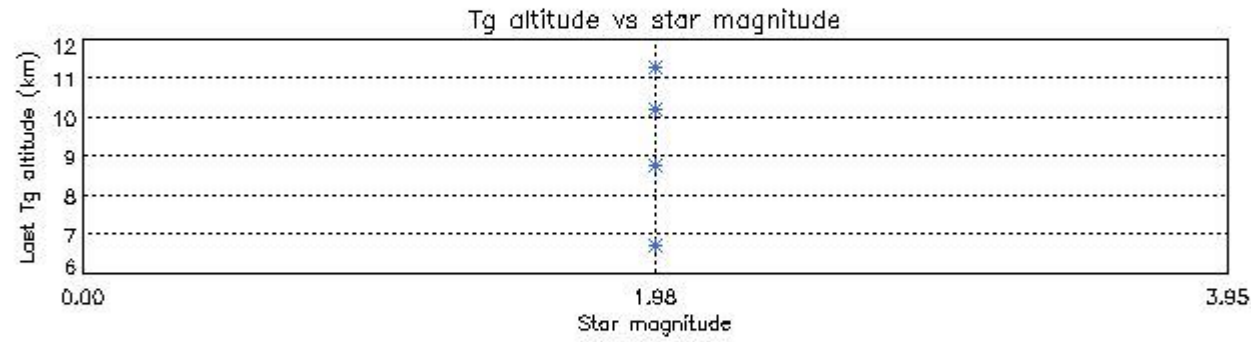
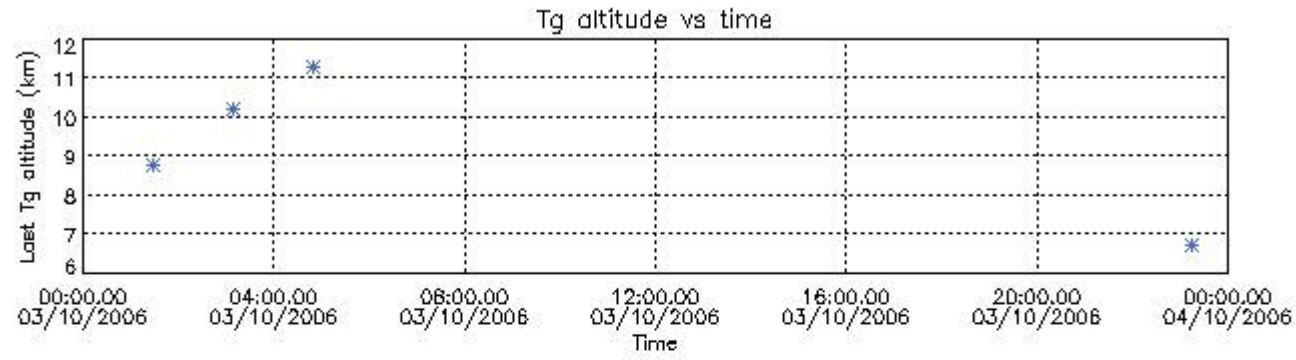
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

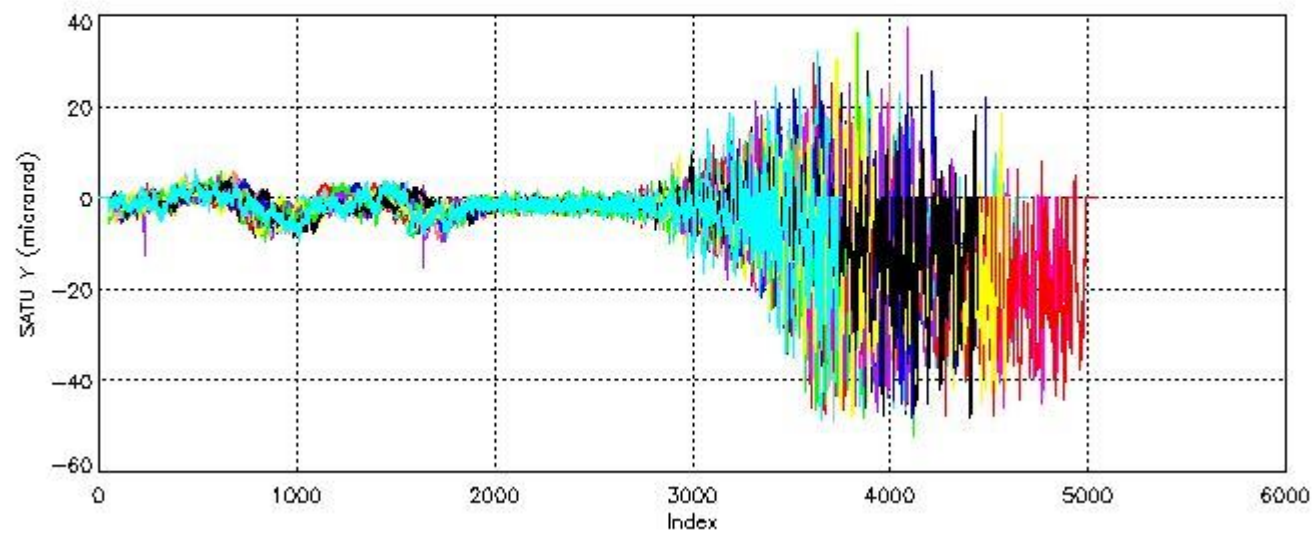
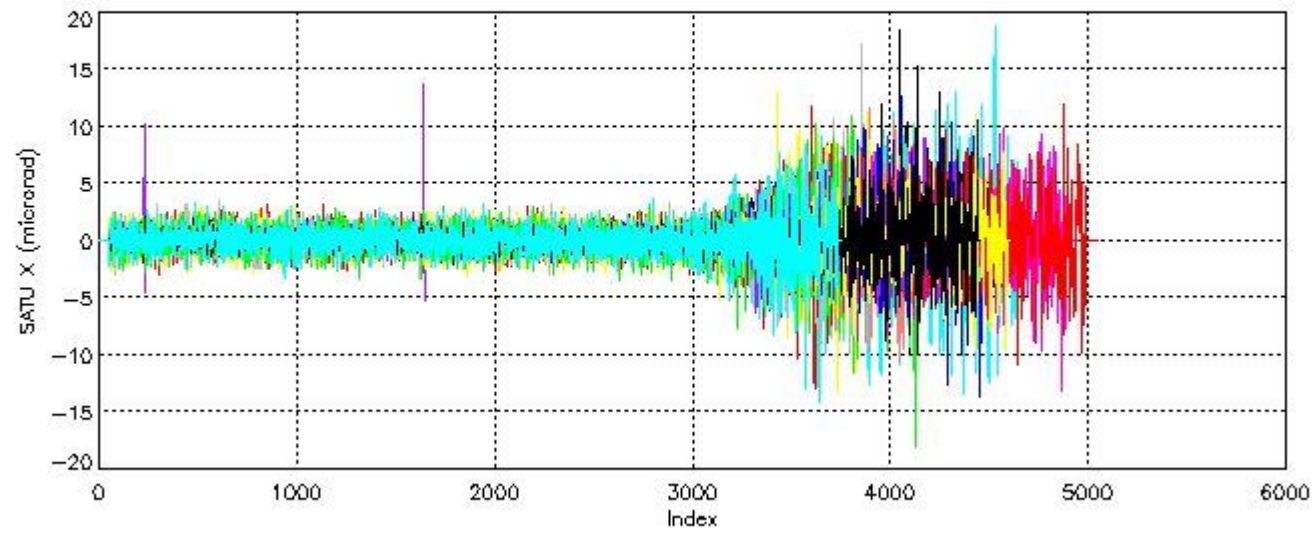


7. Star Acquisition and Tracking Unit (SATU)

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.

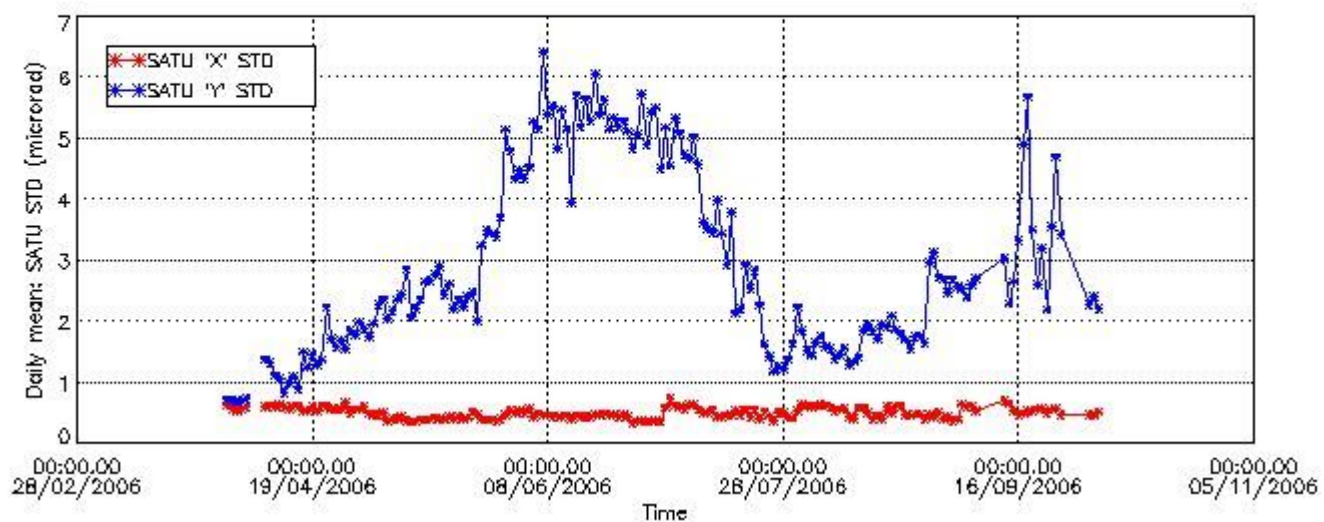
7.2.1 SATU NEA Statistics (table)

| Statistics | SATU X (D) | SATU Y (D) | SATU X (B) | SATU Y (B) |
|----------------|------------|------------|------------|------------|
| Mean: | 0.10369 | -0.83518 | -0.0099898 | -1.2574 |
| St. deviation: | 0.50317 | 2.1984 | 0.64521 | 2.6011 |
| Maximum: | 10.200 | 6.4000 | 4.0000 | 6.6000 |
| Minimum: | -2.3000 | -6.2000 | -1.7000 | -10.600 |

| | | | | |
|-----------------|--------|--------|--------|--------|
| Number of data: | 15500. | 15500. | 19400. | 19400. |
|-----------------|--------|--------|--------|--------|

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

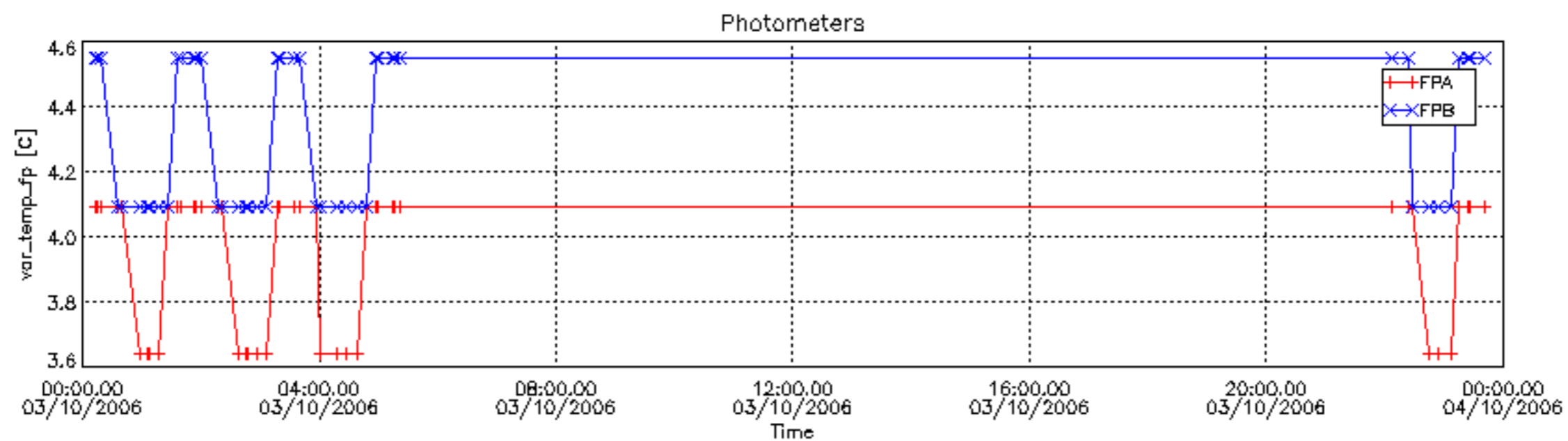
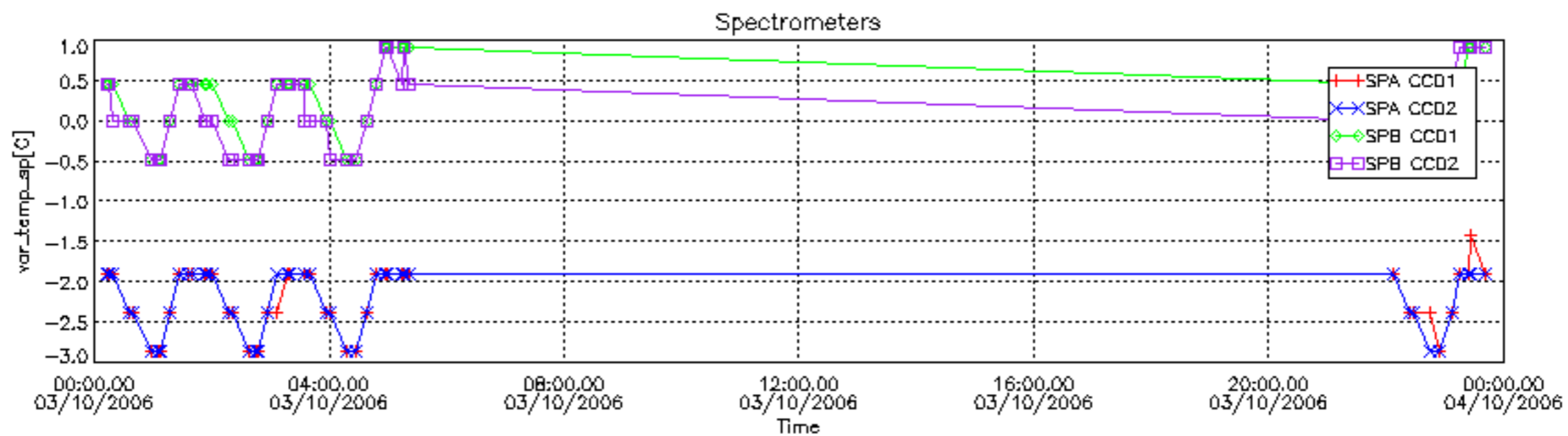
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

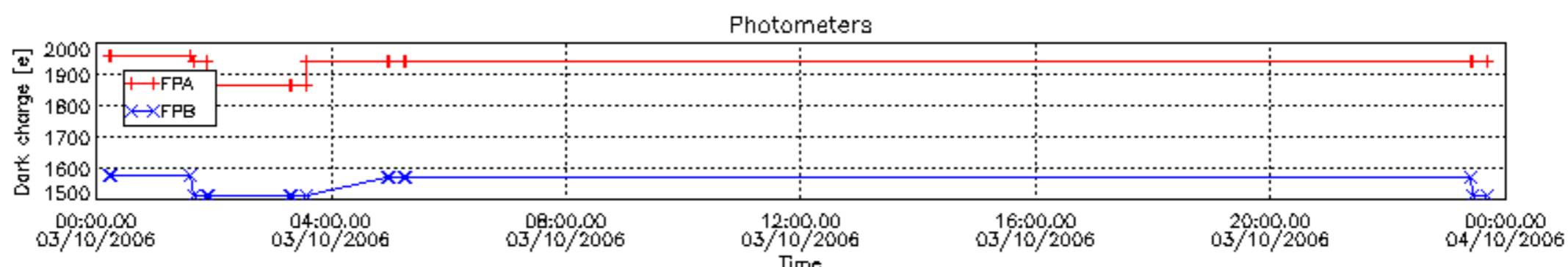
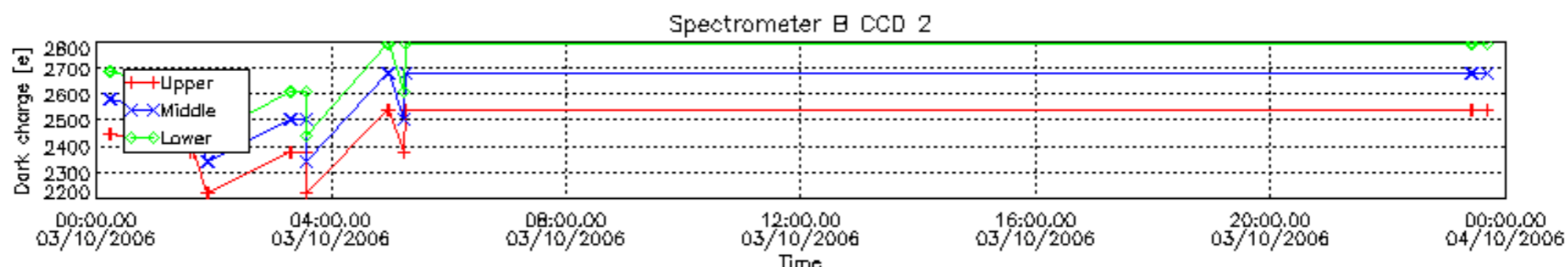
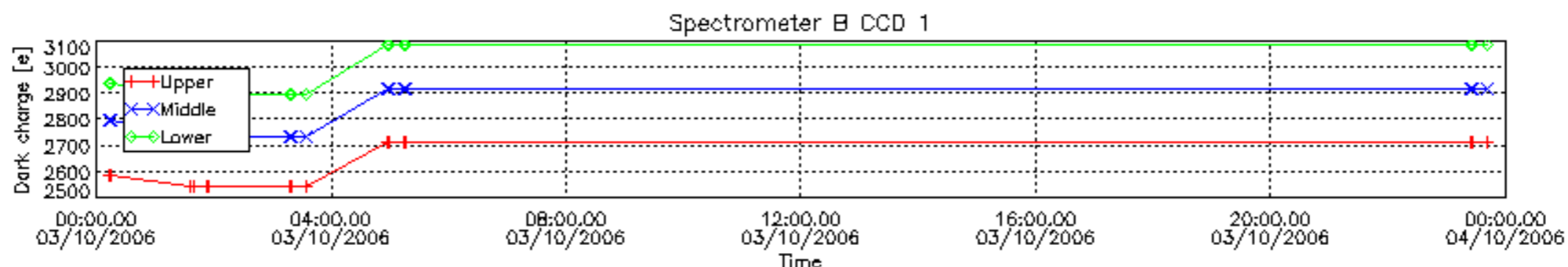
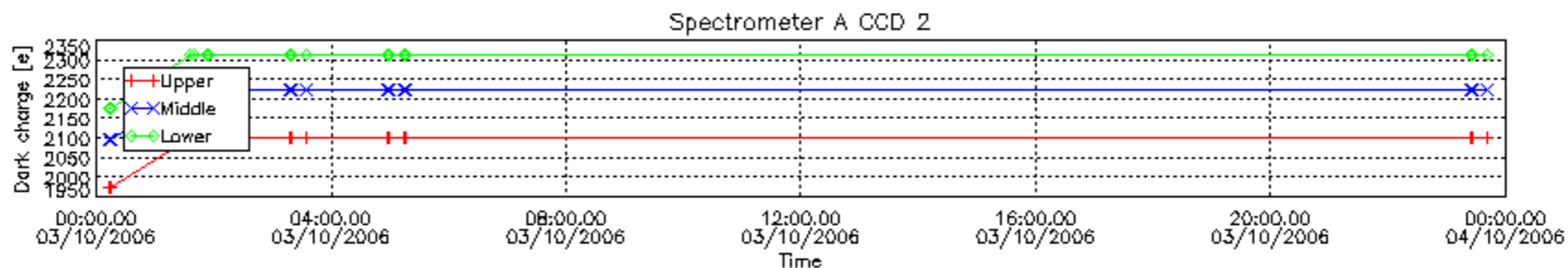
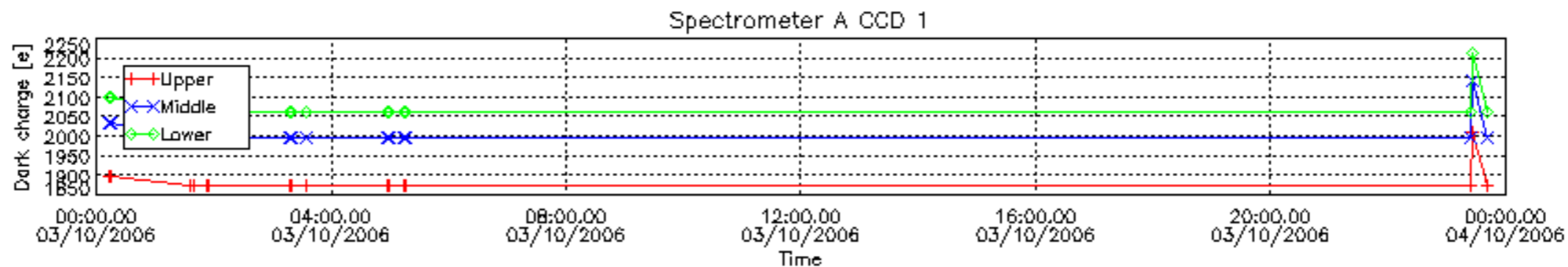


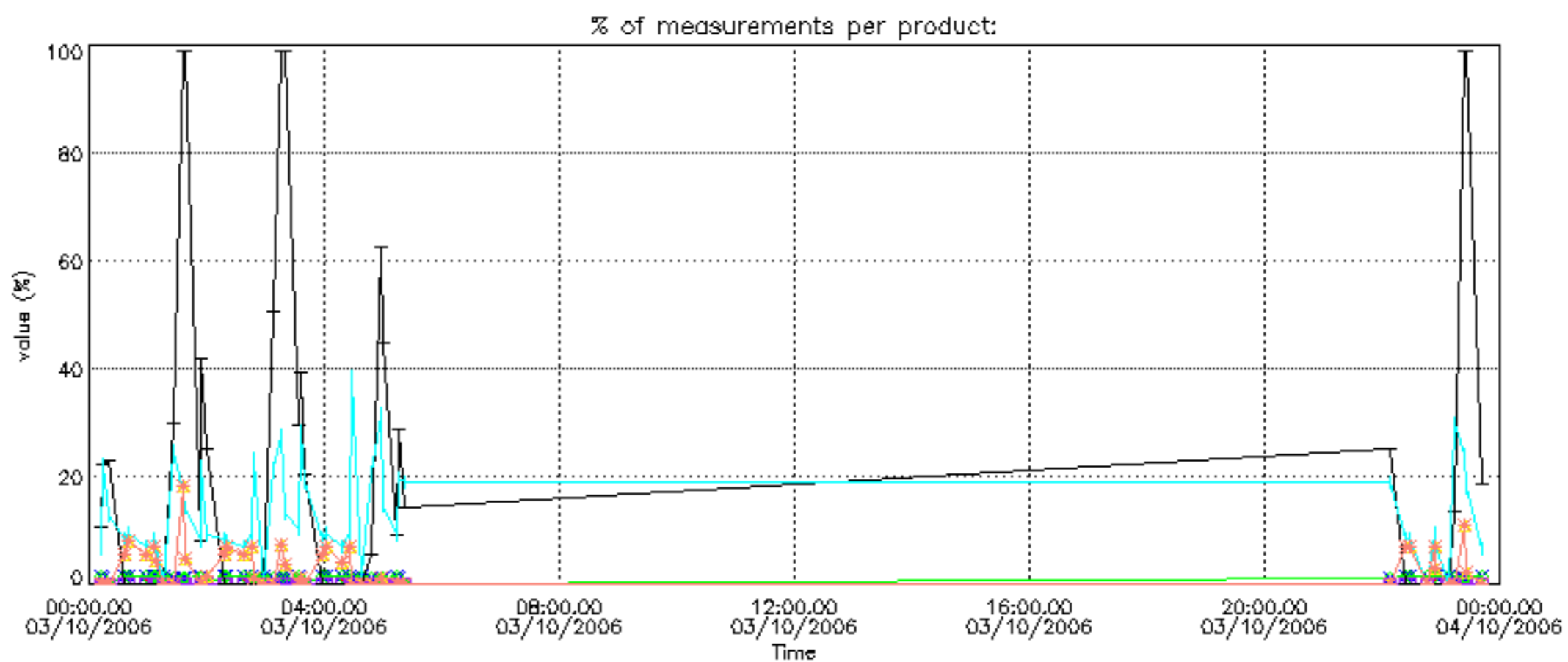
8. Auxiliary Data Files used for the production reported in section 2.2

The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

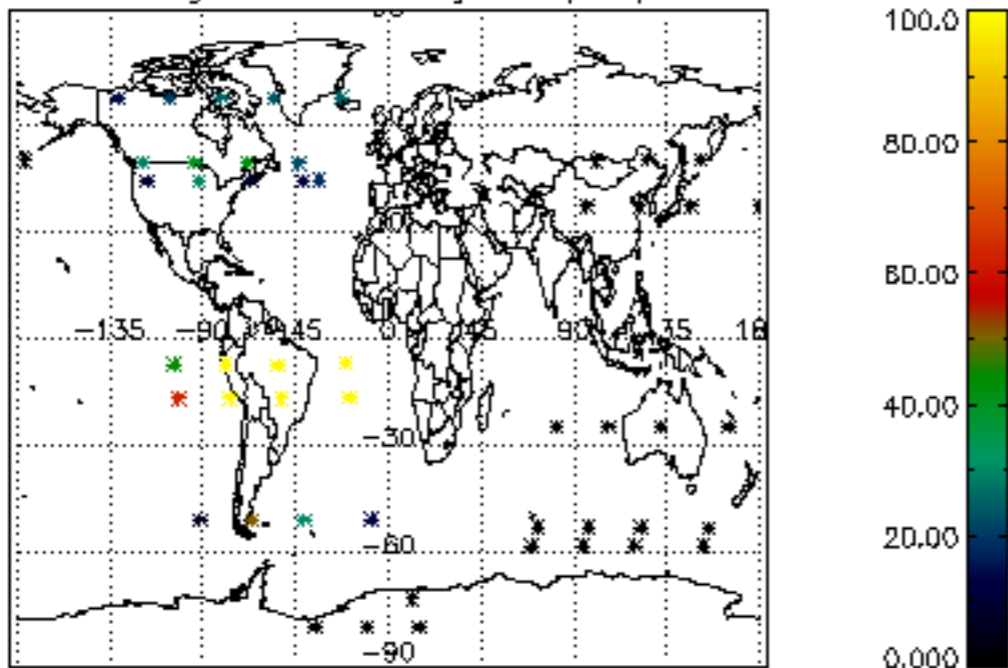
| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000 | 1 | 03-OCT-2006 00:12:43 |
| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20060927_124349_20060925_000000_20100101_000000 | 1 | 03-OCT-2006 00:12:43 |
| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20061002_131438_20060930_000000_20100101_000000 | 4 | 03-OCT-2006 00:36:31 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000 | 1 | 03-OCT-2006 00:12:43 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 03-OCT-2006 00:12:43 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000 | 1 | 03-OCT-2006 00:12:43 |
| ECMWF_FILE | AUX_ECF_AXNECM20061002_062546_20061002_210000_20061003_090000 | 1 | 03-OCT-2006 00:12:43 |
| ECMWF_FILE | AUX_ECF_AXNECM20061002_182055_20061003_030000_20061003_150000 | 28 | 03-OCT-2006 03:57:43 |
| ECMWF_FILE | AUX_ECF_AXNECM20061003_063055_20061003_210000_20061004_090000 | 40 | 03-OCT-2006 22:07:21 |
| OPTIONAL_ECMWF_FILE | MISSING | 1 | 03-OCT-2006 00:12:43 |
| ORBIT_DATA_FILE | AUX_FPO_AXVPDS20061003_010036_20061002_185834_20061012_202449 | 1 | 03-OCT-2006 00:12:43 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20061003_002403_000054192051_00403_24004_0688.N1 | 4 | 03-OCT-2006 00:36:31 |
| ORBIT_DATA_FILE | AUX_FPO_AXVPDS20061003_010036_20061002_185834_20061012_202449 | 16 | 03-OCT-2006 02:17:07 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20061003_034557_000057382051_00405_24006_0689.N1 | 28 | 03-OCT-2006 03:57:43 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20061003_220547_000057382051_00416_24017_0696.N1 | 40 | 03-OCT-2006 22:07:21 |



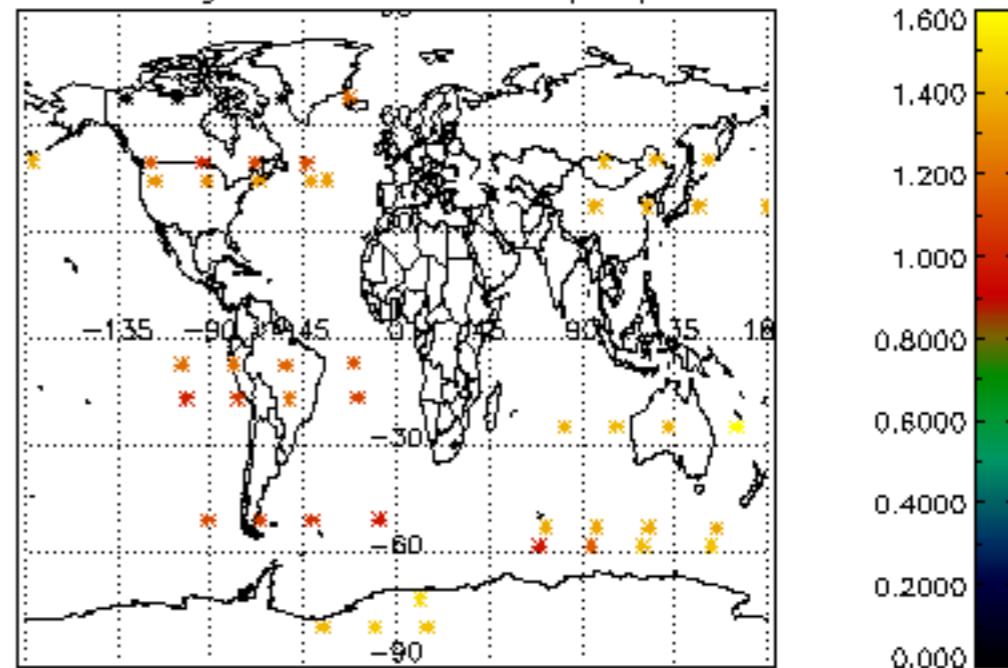




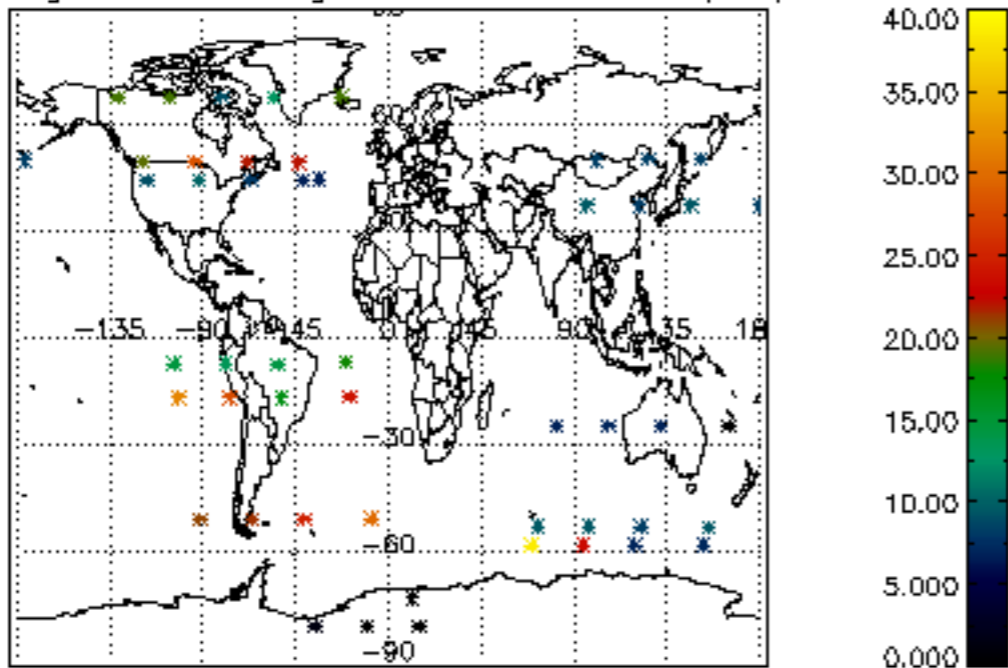
Percentage of cosmic ray hits per profile



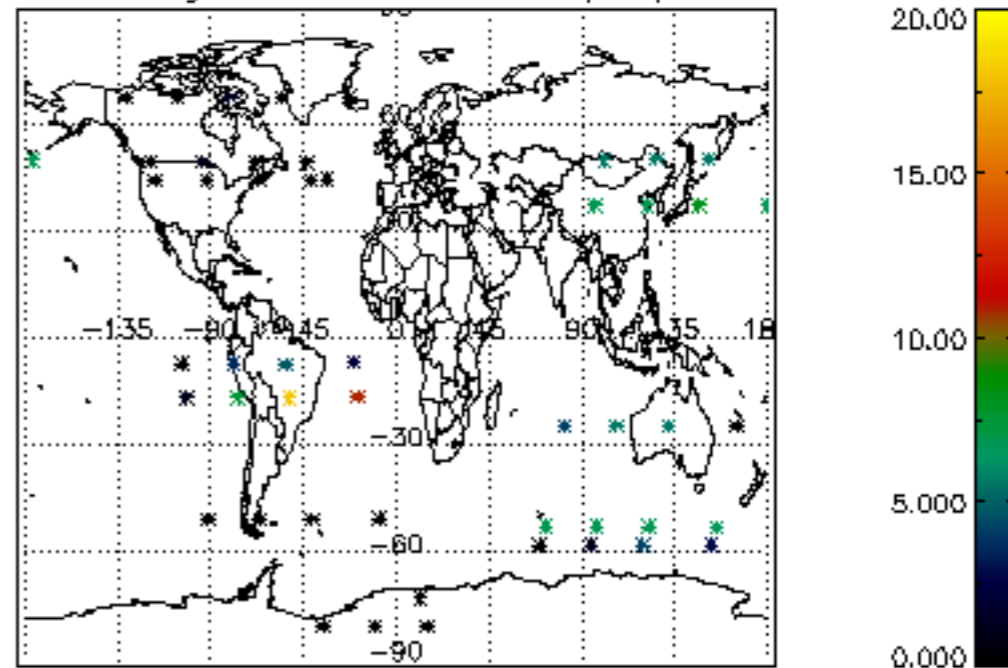
Percentage of datation errors per profile



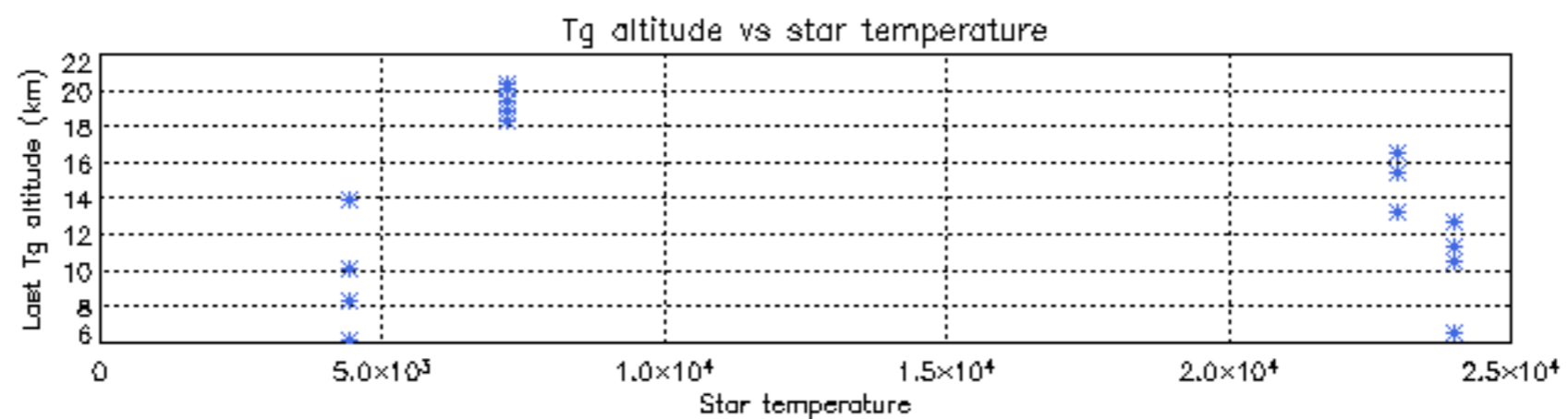
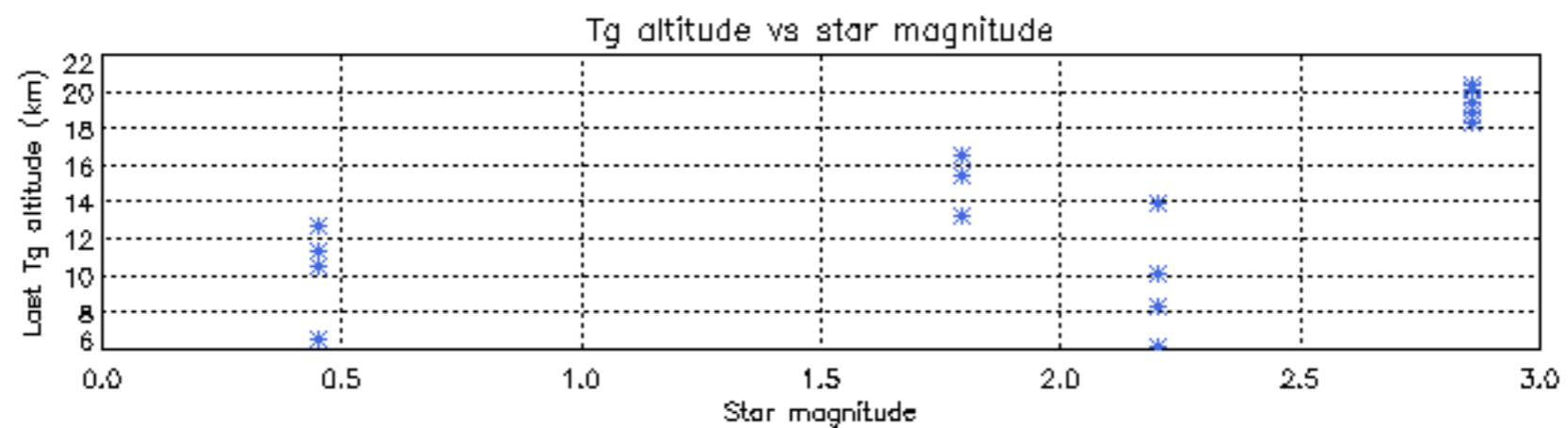
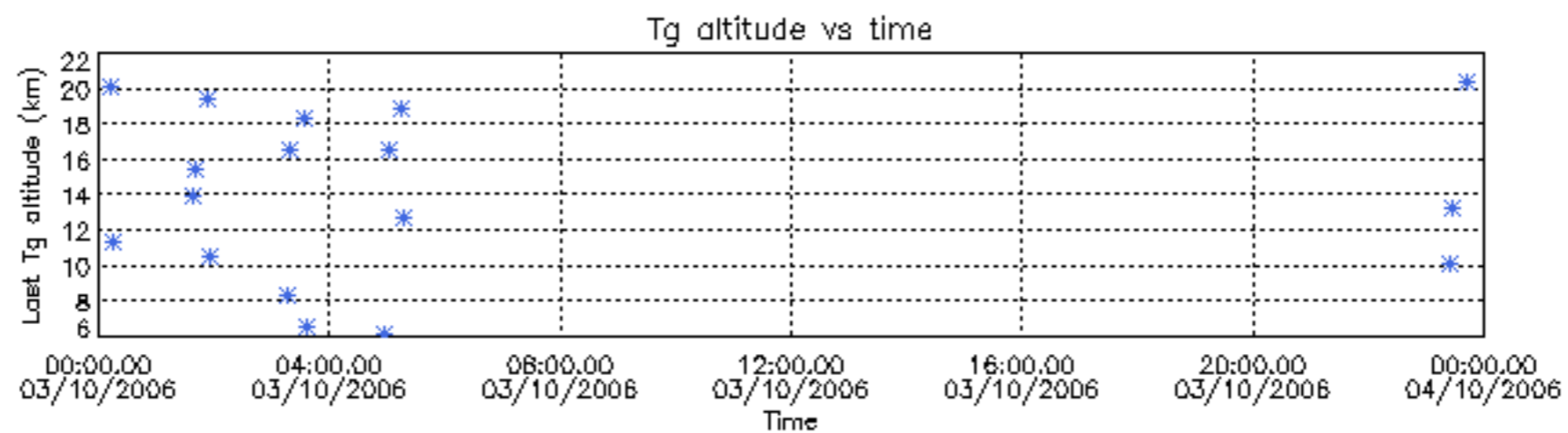
Percentage of star falling outside central band per profile



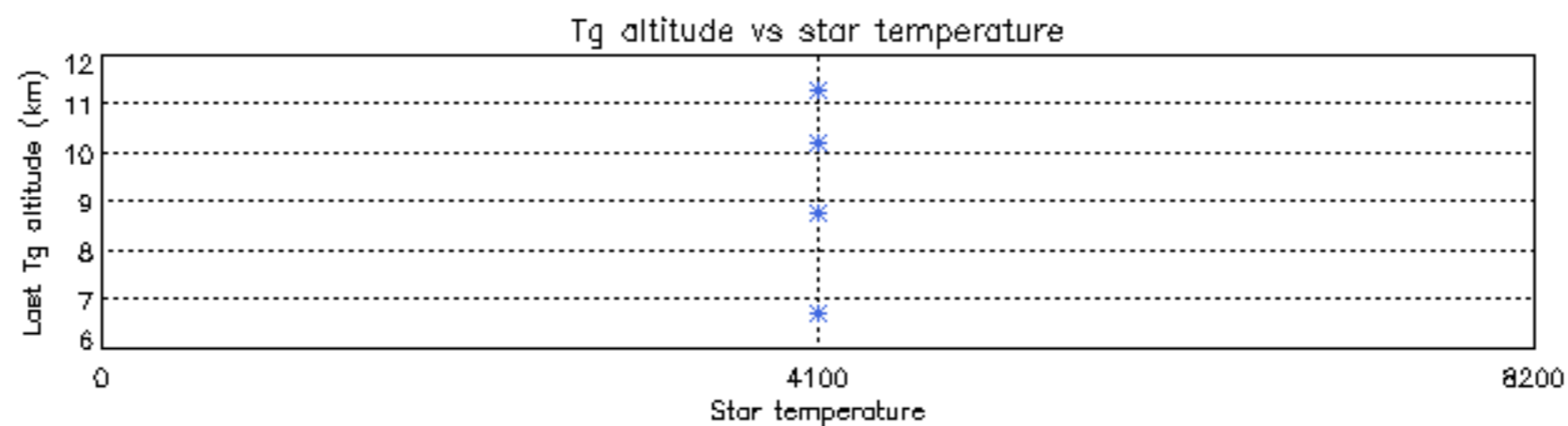
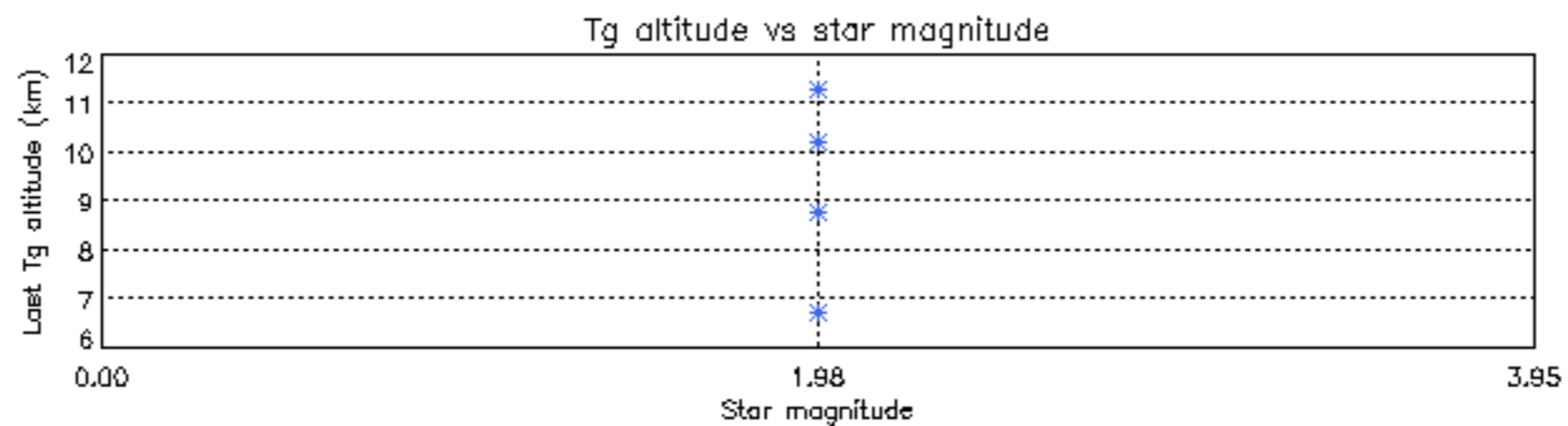
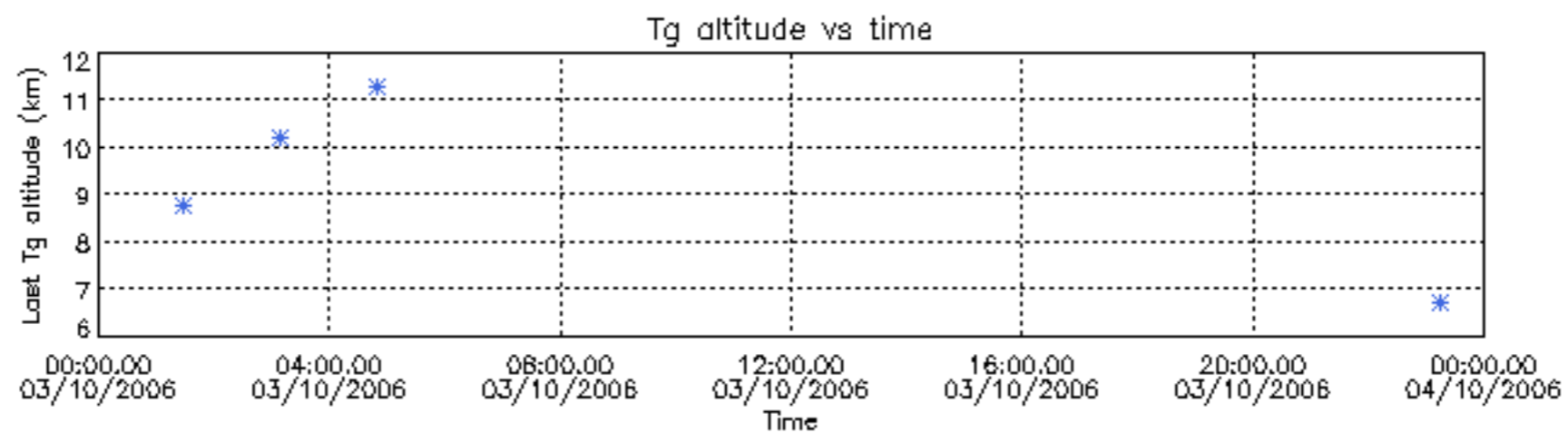
Percentage of saturation errors per profile

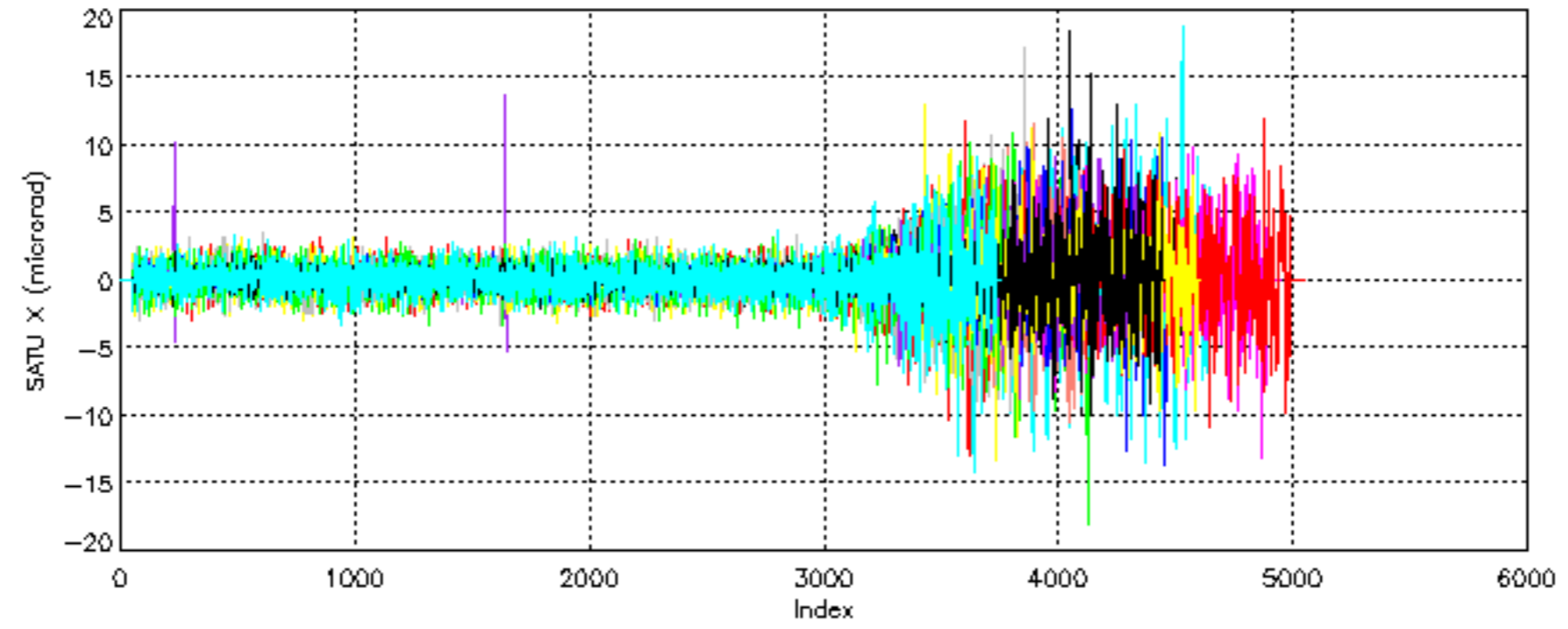


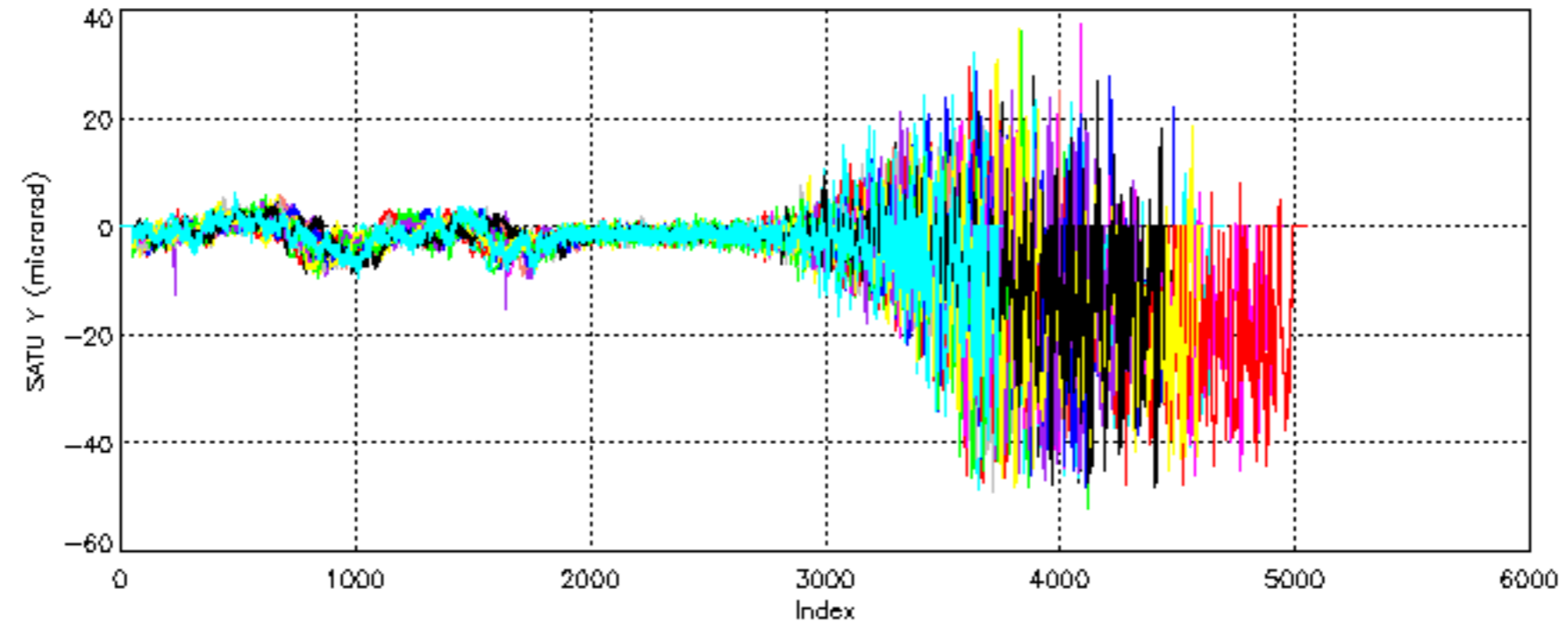
Tangent altitude at which the star is lost

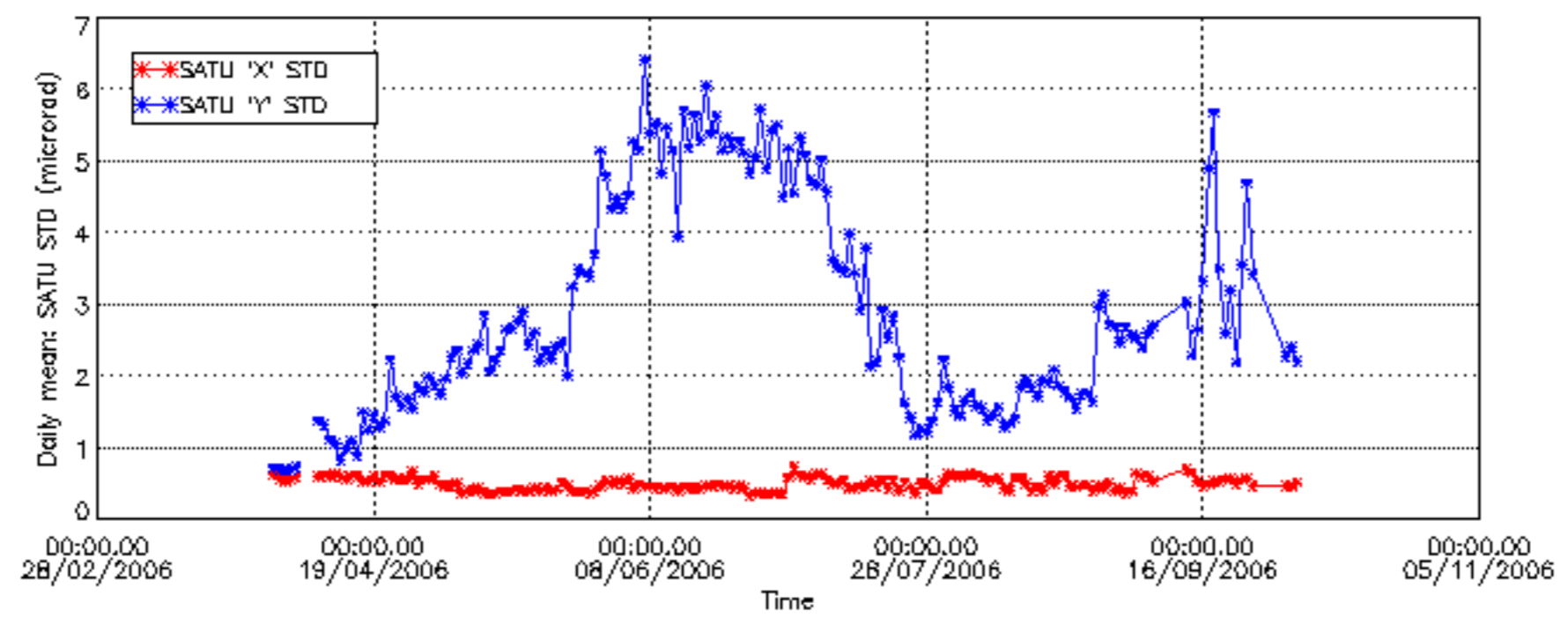


Tangent altitude at which the star is lost









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2;-3867.5; 01-OCT-2006 21:46:55; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;23988
3;-3649.4; 01-OCT-2006 21:50:33; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;23988
4;-2607.4; 01-OCT-2006 22:07:55; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;23988
5;-2129.4; 01-OCT-2006 22:15:53; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;23988
6;-2039.1; 01-OCT-2006 22:17:23; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;23988
7;-1446.3; 01-OCT-2006 22:27:16; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;23988
8; -870.5; 01-OCT-2006 22:36:52; Dark ; 43.0; 48; 30Alp Hya ; 1.98; 4100;occ; 86; 0;23988
9; -289.9; 01-OCT-2006 22:46:32; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;23988
10; -132.8; 01-OCT-2006 22:49:09; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;23988
11; 736.2; 01-OCT-2006 23:03:38; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;23989
12; 823.9; 01-OCT-2006 23:05:06; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;23989
13; 1144.4; 01-OCT-2006 23:10:27; Dark ; 21.5; 84; Alp Phe ; 2.40; 4500;occ; 43; 0;23989

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2; 821.0; 01-OCT-2006 07:59:39; Dark ; 49.5; 9; Alp Eri ; 0.45; 24000;occ; 99; 0;23980
3; 1142.7; 01-OCT-2006 08:05:01; Dark ; 39.5; 84; Alp Phe ; 2.40; 4500;occ; 79; 0;23980

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2;-3649.0; 01-OCT-2006 08:25:45; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 0;23980
3;-2606.8; 01-OCT-2006 08:43:07; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;23980
4;-2129.7; 01-OCT-2006 08:51:04; Bright; 35.0; 36; 50Alp UMa ; 1.80; 6300;occ; 70; 0;23980
5;-2039.7; 01-OCT-2006 08:52:34; Bright; 35.5; 82; 48Bet UMa ; 2.37; 10600;occ; 71; 0;23980
6;-1447.1; 01-OCT-2006 09:02:27; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;23980
7; -873.0; 01-OCT-2006 09:12:01; Dark ; 43.5; 48; 30Alp Hya ; 1.98; 4100;occ; 87; 0;23980
8; -292.3; 01-OCT-2006 09:21:42; Dark ; 42.0; 65; Lam Vel ; 2.20; 4400;occ; 84; 0;23980
9; -136.5; 01-OCT-2006 09:24:18; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;23980
10; 733.6; 01-OCT-2006 09:38:48; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23981
11; 821.5; 01-OCT-2006 09:40:16; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;23981
12; 1142.9; 01-OCT-2006 09:45:37; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;23981

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2;-3649.0; 01-OCT-2006 10:06:21; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;23981
3;-2606.8; 01-OCT-2006 10:23:43; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;23981
4;-2129.6; 01-OCT-2006 10:31:40; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;23981
5;-2039.5; 01-OCT-2006 10:33:11; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;23981
6;-1447.1; 01-OCT-2006 10:43:03; Bright; 36.0; 166; 17Eps Leo ; 2.98; 6000;occ; 72; 0;23981
7; -872.7; 01-OCT-2006 10:52:37; Dark ; 51.0; 48; 30Alp Hya ; 1.98; 4100;occ; 102; 0;23981
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9; -136.0; 01-OCT-2006 11:04:54; Dark ; 38.5; 34; Gam2Vel ; 1.79; 23000;occ; 77; 0;23981
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11; 821.9; 01-OCT-2006 11:20:52; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;23982
12; 1143.2; 01-OCT-2006 11:26:13; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;23982

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3; 3429.1; 01-OCT-2006 12:04:19; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;23982
4; 3906.4; 01-OCT-2006 12:12:16; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;23982
5; 3996.8; 01-OCT-2006 12:13:47; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;23982
6; 4589.1; 01-OCT-2006 12:23:39; Bright; 33.5; 166; 17Eps Leo ; 2.98; 6000;occ; 67; 0;23982
7; 5163.6; 01-OCT-2006 12:33:14; Dark ; 47.5; 48; 30Alp Hya ; 1.98; 4100;occ; 95; 0;23982
8; 5744.3; 01-OCT-2006 12:42:54; Dark ; 41.0; 65; Lam Vel ; 2.20; 4400;occ; 82; 0;23982
9; 5900.4; 01-OCT-2006 12:45:30; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;23982
10; 6770.5; 01-OCT-2006 13:00:01; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;23982
11; 6858.1; 01-OCT-2006 13:01:28; Dark ; 41.5; 9; Alp Eri ; 0.45; 24000;occ; 83; 0;23982
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3;-2606.8; 01-OCT-2006 13:44:55; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;23983
4;-2129.4; 01-OCT-2006 13:52:52; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;23983
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6;-1446.4; 01-OCT-2006 14:04:15; Bright; 32.5; 166; 17Eps Leo ; 2.98; 6000;occ; 65; 0;23983
7; -871.8; 01-OCT-2006 14:13:50; Dark ; 46.5; 48; 30Alp Hya ; 1.98; 4100;occ; 93; 0;23983
8; -291.1; 01-OCT-2006 14:23:31; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;23983
9; -134.8; 01-OCT-2006 14:26:07; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;23983
10; 734.8; 01-OCT-2006 14:40:37; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;23984

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 3; 2410.0; 15-OCT-2006 01:03:32; Bright; 31.0; 58; 21Alp And ; 2.07; 11000;occ; 62; 0;24176
 4; 2895.0; 15-OCT-2006 01:11:37; Bright; 32.0; 68; 18Alp Cas ; 2.22; 4500;occ; 64; 0;24176
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 9; 4221.2; 15-OCT-2006 01:33:43; Bright; 29.5; 174; 52Psi UMa ; 3.00; 4400;occ; 59; 0;24176
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14; 6156.9; 15-OCT-2006 02:05:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24176
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16; 6369.9; 15-OCT-2006 02:09:32; Dark ; 43.5; 2; Alp Car ;-0.74; 7000;occ; 87; 0;24176
17; 6842.0; 15-OCT-2006 02:17:24; Dark ; 33.0; 143; Alp Hyi ; 2.86; 7200;occ; 66; 0;24176
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16; 335.1; 15-OCT-2006 03:50:09; Dark ; 41.0; 2; Alp Car ; -0.74; 7000;occ; 82; 0;24178
17; 806.7; 15-OCT-2006 03:58:00; Dark ; 31.0; 143; Alp Hyi ; 2.86; 7200;occ; 62; 0;24178
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11; -101.7; 15-OCT-2006 23:50:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24189
12; -1.8; 15-OCT-2006 23:51:44; Dark ; 86.5; 159; Ups Car ; 2.92; 7200;occ; 173; 0;24189
13; 141.5; 15-OCT-2006 23:54:07; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;24190
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3; 2116.2; 15-OCT-2006 21:05:49; Bright; 86.0; 140; 88Gam Peg ; 2.83; 26000;occ; 172; 0;24188
4; 2354.1; 15-OCT-2006 21:09:47; Bright; 84.5; 58; 21Alp And ; 2.07; 11000;occ; 169; 0;24188
5; 3374.9; 15-OCT-2006 21:26:48; Bright; 88.5; 49; 1Alp UMi ; 1.99; 6300;occ; 177; 0;24188
6; 3555.4; 15-OCT-2006 21:29:48; Bright; 84.0; 60; 7Bet UMi ; 2.08; 3950;occ; 168; 0;24188
7; 3868.4; 15-OCT-2006 21:35:01; Bright; 88.5; 36; 50Alp UMa ; 1.80; 6300;occ; 177; 0;24188
8; 4165.5; 15-OCT-2006 21:39:59; Bright; 86.0; 174; 52Psi UMa ; 3.00; 4400;occ; 172; 0;24188
9; 4571.9; 15-OCT-2006 21:46:45; Bright; 83.5; 96; 68Del Leo ; 2.56; 9300;occ; 167; 0;24188
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12; 6034.5; 15-OCT-2006 22:11:08; Dark ; 86.5; 159; Ups Car ; 2.92; 7200;occ; 173; 0;24188
13; 6875.9; 15-OCT-2006 22:25:09; Dark ; 95.5; 9; Alp Eri ; 0.45; 24000;occ; 191; 0;24188
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11;-1413.6; 16-OCT-2006 01:08:48; Bright; 33.5; 96; 68Del Leo ; 2.56; 9300;occ; 67; 0;24190
12; -189.4; 16-OCT-2006 01:29:12; Dark ; 52.0; 65; Lam Vel ; 2.20; 4400;occ; 104; 0;24190
13; -101.1; 16-OCT-2006 01:30:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24190
14; 141.9; 16-OCT-2006 01:34:43; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;24191
15; 804.0; 16-OCT-2006 01:45:45; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;24191
16; 890.4; 16-OCT-2006 01:47:12; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;24191

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4; 2916.4; 16-OCT-2006 04:01:33; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;24192
5; 3057.6; 16-OCT-2006 04:03:54; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;24192
6; 3426.8; 16-OCT-2006 04:10:03; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;24192
7; 3607.1; 16-OCT-2006 04:13:04; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;24192
8; 3920.4; 16-OCT-2006 04:18:17; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;24192
9; 4013.9; 16-OCT-2006 04:19:50; Bright; 36.5; 82; 48Bet UMa ; 2.37; 10600;occ; 73; 0;24192
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14; 6034.8; 16-OCT-2006 04:53:31; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;24192
15; 6179.1; 16-OCT-2006 04:55:56; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;24192
16; 6841.6; 16-OCT-2006 05:06:58; Dark ; 37.0; 143; Alp Hyi ; 2.86; 7200;occ; 74; 0;24192
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12;-1411.1; 16-OCT-2006 22:56:37; Bright; 34.0; 96; 68Del Leo ; 2.56; 9300;occ; 68; 0;24203
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15; 4.2; 16-OCT-2006 23:20:13; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;24204
16; 145.4; 16-OCT-2006 23:22:34; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;24204
17; 808.2; 16-OCT-2006 23:33:37; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;24204
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13; -98.7; 16-OCT-2006 06:32:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24193
14; -0.7; 16-OCT-2006 06:34:08; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;24193
15; 143.2; 16-OCT-2006 06:36:32; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;24194
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6;-2428.4; 16-OCT-2006 07:34:16; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;24194

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16; 823.8; 20-OCT-2006 19:46:48; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;24259

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 5; 2879.4; 22-OCT-2006 17:37:14; Bright; 31.0; 68; 18Alp Cas ; 2.22; 4500;occ; 62; 0;24286
 6; 2957.3; 22-OCT-2006 17:38:31; Bright; 30.0; 76; 27Gam Cas ; 2.30; 30000;occ; 60; 0;24286
 7; 3431.1; 22-OCT-2006 17:46:25; Bright; 30.5; 49; 1Alp UMi ; 1.99; 6300;occ; 61; 0;24286
 8; 3633.4; 22-OCT-2006 17:49:48; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;24286
 9; 3926.1; 22-OCT-2006 17:54:40; Bright; 29.5; 36; 50Alp UMa ; 1.80; 6300;occ; 59; 0;24286
10; 4020.9; 22-OCT-2006 17:56:15; Bright; 28.0; 82; 48Bet UMa ; 2.37; 10600;occ; 56; 0;24286
11; 4230.6; 22-OCT-2006 17:59:45; Bright; 48.0; 174; 52Psi UMa ; 3.00; 4400;occ; 96; 0;24286
12; 4648.0; 22-OCT-2006 18:06:42; Bright; 30.0; 96; 68Del Leo ; 2.56; 9300;occ; 60; 0;24286
13; 5822.8; 22-OCT-2006 18:26:17; Dark ; 35.5; 113; Mu Vel ; 2.69; 5000;occ; 71; 0;24286
14; 5916.6; 22-OCT-2006 18:27:51; Dark ; 38.5; 65; Lam Vel ; 2.20; 4400;occ; 77; 0;24286
15; 5994.4; 22-OCT-2006 18:29:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24286
16; 6093.1; 22-OCT-2006 18:30:47; Dark ; 33.5; 46; Del Vel ; 1.95; 10600;occ; 67; 0;24286
17; 6209.7; 22-OCT-2006 18:32:44; Dark ; 31.0; 29; Bet Car ; 1.67; 10200;occ; 62; 0;24286
18; 6872.7; 22-OCT-2006 18:43:47; Dark ; 31.0; 143; Alp Hyi ; 2.86; 7200;occ; 62; 0;24286
19; 6957.8; 22-OCT-2006 18:45:12; Dark ; 37.5; 9; Alp Eri ; 0.45; 24000;occ; 75; 0;24286
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 4;-3499.5; 22-OCT-2006 19:12:07; Bright; 32.0; 53; 43Bet And ; 2.05; 3300;occ; 64; 0;24287
 5;-3156.7; 22-OCT-2006 19:17:49; Bright; 31.5; 68; 18Alp Cas ; 2.22; 4500;occ; 63; 0;24287
 6;-3078.9; 22-OCT-2006 19:19:07; Bright; 29.5; 76; 27Gam Cas ; 2.30; 30000;occ; 59; 0;24287
 7;-2604.8; 22-OCT-2006 19:27:01; Bright; 31.0; 49; 1Alp UMi ; 1.99; 6300;occ; 62; 0;24287
 8;-2402.1; 22-OCT-2006 19:30:24; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;24287
 9;-2109.7; 22-OCT-2006 19:35:16; Bright; 32.0; 36; 50Alp UMa ; 1.80; 6300;occ; 64; 0;24287
 10;-2015.0; 22-OCT-2006 19:36:51; Bright; 31.5; 82; 48Bet UMa ; 2.37; 10600;occ; 63; 0;24287
 11;-1805.2; 22-OCT-2006 19:40:21; Bright; 48.0; 174; 52Psi UMa ; 3.00; 4400;occ; 96; 0;24287
 12;-1387.8; 22-OCT-2006 19:47:18; Bright; 44.0; 96; 68Del Leo ; 2.56; 9300;occ; 88; 0;24287
 13; -212.7; 22-OCT-2006 20:06:53; Dark ; 31.5; 113; Mu Vel ; 2.69; 5000;occ; 63; 0;24287
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 16; 57.7; 22-OCT-2006 20:11:24; Dark ; 34.5; 46; Del Vel ; 1.95; 10600;occ; 69; 0;24288
 17; 173.9; 22-OCT-2006 20:13:20; Dark ; 32.5; 29; Bet Car ; 1.67; 10200;occ; 65; 0;24288
 18; 836.8; 22-OCT-2006 20:24:23; Dark ; 32.5; 143; Alp Hyi ; 2.86; 7200;occ; 65; 0;24288
 19; 921.9; 22-OCT-2006 20:25:48; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;24288

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 7;-3079.1; 22-OCT-2006 20:59:43; Bright; 29.5; 76; 27Gam Cas ; 2.30; 30000;occ; 59; 0;24288
 8;-2604.7; 22-OCT-2006 21:07:37; Bright; 30.5; 49; 1Alp UMi ; 1.99; 6300;occ; 61; 0;24288
 9;-2402.1; 22-OCT-2006 21:11:00; Bright; 27.5; 60; 7Bet UMi ; 2.08; 3950;occ; 55; 0;24288
 10;-2109.7; 22-OCT-2006 21:15:52; Bright; 32.0; 36; 50Alp UMa ; 1.80; 6300;occ; 64; 0;24288
 11;-2015.1; 22-OCT-2006 21:17:27; Bright; 29.5; 82; 48Bet UMa ; 2.37; 10600;occ; 59; 0;24288
 12;-1805.4; 22-OCT-2006 21:20:57; Bright; 29.5; 174; 52Psi UMa ; 3.00; 4400;occ; 59; 0;24288
 13;-1387.6; 22-OCT-2006 21:27:54; Bright; 29.5; 96; 68Del Leo ; 2.56; 9300;occ; 59; 0;24288
 14; -212.3; 22-OCT-2006 21:47:30; Dark ; 33.0; 113; Mu Vel ; 2.69; 5000;occ; 66; 0;24288
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 16; -40.3; 22-OCT-2006 21:50:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24288
 17; 58.0; 22-OCT-2006 21:52:00; Dark ; 34.0; 46; Del Vel ; 1.95; 10600;occ; 68; 0;24289
 18; 174.1; 22-OCT-2006 21:53:56; Dark ; 33.0; 29; Bet Car ; 1.67; 10200;occ; 66; 0;24289
 19; 837.0; 22-OCT-2006 22:04:59; Dark ; 31.5; 143; Alp Hyi ; 2.86; 7200;occ; 63; 0;24289
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 2; 2179.0; 23-OCT-2006 00:07:57; Bright; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;24290
 3; 2412.6; 23-OCT-2006 00:11:51; Bright; 31.0; 58; 21Alp And ; 2.07; 11000;occ; 62; 0;24290
 4; 2535.8; 23-OCT-2006 00:13:54; Bright; 33.5; 53; 43Bet And ; 2.05; 3300;occ; 67; 0;24290
 5; 2879.2; 23-OCT-2006 00:19:37; Bright; 27.5; 68; 18Alp Cas ; 2.22; 4500;occ; 55; 0;24290
 6; 2956.6; 23-OCT-2006 00:20:55; Bright; 30.0; 76; 27Gam Cas ; 2.30; 30000;occ; 60; 0;24290
 7; 3431.0; 23-OCT-2006 00:28:49; Bright; 28.0; 49; 1Alp UMi ; 1.99; 6300;occ; 56; 0;24290
 8; 3634.3; 23-OCT-2006 00:32:12; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;24290
 9; 3925.9; 23-OCT-2006 00:37:04; Bright; 30.0; 36; 50Alp UMa ; 1.80; 6300;occ; 60; 0;24290
 10; 4020.9; 23-OCT-2006 00:38:39; Bright; 45.0; 82; 48Bet UMa ; 2.37; 10600;occ; 90; 0;24290
 11; 4230.7; 23-OCT-2006 00:42:09; Bright; 31.5; 174; 52Psi UMa ; 3.00; 4400;occ; 63; 0;24290
 12; 4648.7; 23-OCT-2006 00:49:07; Bright; 29.5; 96; 68Del Leo ; 2.56; 9300;occ; 59; 0;24290
 13; 5824.0; 23-OCT-2006 01:08:42; Dark ; 31.5; 113; Mu Vel ; 2.69; 5000;occ; 63; 0;24290
 14; 5919.2; 23-OCT-2006 01:10:17; Dark ; 37.0; 65; Lam Vel ; 2.20; 4400;occ; 74; 0;24290
 15; 5996.8; 23-OCT-2006 01:11:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24290
 16; 6095.3; 23-OCT-2006 01:13:13; Dark ; 34.0; 46; Del Vel ; 1.95; 10600;occ; 68; 0;24290
 17; 6210.7; 23-OCT-2006 01:15:09; Dark ; 33.0; 29; Bet Car ; 1.67; 10200;occ; 66; 0;24290
 18; 6873.6; 23-OCT-2006 01:26:11; Dark ; 31.5; 143; Alp Hyi ; 2.86; 7200;occ; 63; 0;24290
 19; 6958.5; 23-OCT-2006 01:27:36; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;24290

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 3; 2412.8; 23-OCT-2006 01:52:27; Bright; 31.0; 58; 21Alp And ; 2.07; 11000;occ; 62; 0;24291
 4; 2535.4; 23-OCT-2006 01:54:29; Bright; 35.0; 53; 43Bet And ; 2.05; 3300;occ; 70; 0;24291
 5; 2878.9; 23-OCT-2006 02:00:13; Bright; 30.5; 68; 18Alp Cas ; 2.22; 4500;occ; 61; 0;24291
 6; 2956.4; 23-OCT-2006 02:01:30; Bright; 30.0; 76; 27Gam Cas ; 2.30; 30000;occ; 60; 0;24291
 7; 3431.1; 23-OCT-2006 02:09:25; Bright; 27.0; 49; 1Alp UMi ; 1.99; 6300;occ; 54; 0;24291
 8; 3634.7; 23-OCT-2006 02:12:48; Bright; 31.0; 60; 7Bet UMi ; 2.08; 3950;occ; 62; 0;24291

9; 3925.9; 23-OCT-2006 02:17:40; Bright; 32.5; 36; 50Alp UMA ; 1.80; 6300;occ; 65; 0;24291
 10; 4020.8; 23-OCT-2006 02:19:15; Bright; 31.5; 82; 48Bet UMA ; 2.37; 10600;occ; 63; 0;24291
 11; 4230.8; 23-OCT-2006 02:22:45; Bright; 30.5; 174; 52Psi UMA ; 3.00; 4400;occ; 61; 0;24291
 12; 4649.0; 23-OCT-2006 02:29:43; Bright; 29.0; 96; 68Del Leo ; 2.56; 9300;occ; 58; 0;24291
 13; 5824.4; 23-OCT-2006 02:49:18; Dark ; 32.0; 113; Mu Vel ; 2.69; 5000;occ; 64; 0;24291
 14; 5920.1; 23-OCT-2006 02:50:54; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;24291
 15; 5997.5; 23-OCT-2006 02:52:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24291
 16; 6095.7; 23-OCT-2006 02:53:50; Dark ; 35.5; 46; Del Vel ; 1.95; 10600;occ; 71; 0;24291
 17; 6210.9; 23-OCT-2006 02:55:45; Dark ; 33.5; 29; Bet Car ; 1.67; 10200;occ; 67; 0;24291
 18; 6873.9; 23-OCT-2006 03:06:48; Dark ; 31.0; 143; Alp Hyi ; 2.86; 7200;occ; 62; 0;24291
 19; 6958.9; 23-OCT-2006 03:08:13; Dark ; 38.0; 9; Alp Eri ; 0.45; 24000;occ; 76; 0;24291

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 3; 2413.0; 23-OCT-2006 03:33:03; Bright; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;24292
 4; 2535.4; 23-OCT-2006 03:35:05; Bright; 32.0; 53; 43Bet And ; 2.05; 3300;occ; 64; 0;24292
 5; 2879.0; 23-OCT-2006 03:40:49; Bright; 28.5; 68; 18Alp Cas ; 2.22; 4500;occ; 57; 0;24292
 6; 2956.4; 23-OCT-2006 03:42:06; Bright; 30.5; 76; 27Gam Cas ; 2.30; 30000;occ; 61; 0;24292
 7; 3431.1; 23-OCT-2006 03:50:01; Bright; 28.5; 49; 1Alp UMi ; 1.99; 6300;occ; 57; 0;24292
 8; 3634.9; 23-OCT-2006 03:53:25; Bright; 32.0; 60; 7Bet UMi ; 2.08; 3950;occ; 64; 0;24292
 9; 3926.0; 23-OCT-2006 03:58:16; Bright; 32.0; 36; 50Alp UMA ; 1.80; 6300;occ; 64; 0;24292
 10; 4020.9; 23-OCT-2006 03:59:51; Bright; 30.5; 82; 48Bet UMA ; 2.37; 10600;occ; 61; 0;24292
 11; 4230.9; 23-OCT-2006 04:03:21; Bright; 29.0; 174; 52Psi UMA ; 3.00; 4400;occ; 58; 0;24292
 12; 4649.2; 23-OCT-2006 04:10:19; Bright; 29.0; 96; 68Del Leo ; 2.56; 9300;occ; 58; 0;24292
 13; 5824.8; 23-OCT-2006 04:29:54; Dark ; 34.5; 113; Mu Vel ; 2.69; 5000;occ; 69; 0;24292
 14; 5921.0; 23-OCT-2006 04:31:31; Dark ; 41.0; 65; Lam Vel ; 2.20; 4400;occ; 82; 0;24292
 15; 5998.3; 23-OCT-2006 04:32:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24292
 16; 6096.7; 23-OCT-2006 04:34:26; Dark ; 34.5; 46; Del Vel ; 1.95; 10600;occ; 69; 0;24292
 17; 6211.4; 23-OCT-2006 04:36:21; Dark ; 32.0; 29; Bet Car ; 1.67; 10200;occ; 64; 0;24292
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 19; 6959.2; 23-OCT-2006 04:48:49; Dark ; 37.5; 9; Alp Eri ; 0.45; 24000;occ; 75; 0;24292

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 3; -3622.9; 23-OCT-2006 05:13:39; Bright; 30.5; 58; 21Alp And ; 2.07; 11000;occ; 61; 0;24293
 4; -3500.8; 23-OCT-2006 05:15:41; Bright; 32.0; 53; 43Bet And ; 2.05; 3300;occ; 64; 0;24293
 5; -3157.1; 23-OCT-2006 05:21:25; Bright; 31.0; 68; 18Alp Cas ; 2.22; 4500;occ; 62; 0;24293
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 8; -2400.9; 23-OCT-2006 05:34:01; Bright; 30.5; 60; 7Bet UMi ; 2.08; 3950;occ; 61; 0;24293
 9; -2109.9; 23-OCT-2006 05:38:52; Bright; 30.0; 36; 50Alp UMA ; 1.80; 6300;occ; 60; 0;24293
 10; -2015.0; 23-OCT-2006 05:40:27; Bright; 28.5; 82; 48Bet UMA ; 2.37; 10600;occ; 57; 0;24293
 11; -1805.0; 23-OCT-2006 05:43:57; Bright; 29.5; 174; 52Psi UMA ; 3.00; 4400;occ; 59; 0;24293
 12; -1386.6; 23-OCT-2006 05:50:55; Bright; 29.5; 96; 68Del Leo ; 2.56; 9300;occ; 59; 0;24293
 13; -210.9; 23-OCT-2006 06:10:31; Dark ; 34.5; 113; Mu Vel ; 2.69; 5000;occ; 69; 0;24293
 14; -114.3; 23-OCT-2006 06:12:07; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;24293
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 16; 61.2; 23-OCT-2006 06:15:03; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;24294
 17; 175.7; 23-OCT-2006 06:16:57; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;24294
 18; 838.5; 23-OCT-2006 06:28:00; Dark ; 31.5; 143; Alp Hyi ; 2.86; 7200;occ; 63; 0;24294
 19; 923.5; 23-OCT-2006 06:29:25; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;24294
 20; 1609.3; 23-OCT-2006 06:40:51; Dark ; 36.0; 52; 16Bet Cet ; 2.04; 4500;occ; 72; 0;24294

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 3; -3501.0; 23-OCT-2006 06:56:17; Bright; 31.0; 53; 43Bet And ; 2.05; 3300;occ; 62; 0;24294
 4; -3157.2; 23-OCT-2006 07:02:00; Bright; 29.0; 68; 18Alp Cas ; 2.22; 4500;occ; 58; 0;24294
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 8; -2110.2; 23-OCT-2006 07:19:27; Bright; 32.5; 36; 50Alp UMA ; 1.80; 6300;occ; 65; 0;24294
 9; -2015.3; 23-OCT-2006 07:21:02; Bright; 41.5; 82; 48Bet UMA ; 2.37; 10600;occ; 83; 0;24294
 10; -1805.0; 23-OCT-2006 07:24:33; Bright; 29.5; 174; 52Psi UMA ; 3.00; 4400;occ; 59; 0;24294
 11; -1386.2; 23-OCT-2006 07:31:31; Bright; 27.0; 96; 68Del Leo ; 2.56; 9300;occ; 54; 0;24294
 12; -210.6; 23-OCT-2006 07:51:07; Dark ; 34.0; 113; Mu Vel ; 2.69; 5000;occ; 68; 0;24294
 13; -113.5; 23-OCT-2006 07:52:44; Dark ; 41.0; 65; Lam Vel ; 2.20; 4400;occ; 82; 0;24294
 14; -36.4; 23-OCT-2006 07:54:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24294
 15; 61.8; 23-OCT-2006 07:55:39; Dark ; 36.0; 46; Del Vel ; 1.95; 10600;occ; 72; 0;24295

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17; 838.6; 23-OCT-2006 08:08:36; Dark ; 33.0; 143; Alp Hyi ; 2.86; 7200;occ; 66; 0;24295
18; 923.7; 23-OCT-2006 08:10:01; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;24295
19; 1609.4; 23-OCT-2006 08:21:27; Dark ; 37.5; 52; 16Bet Cet ; 2.04; 4500;occ; 75; 0;24295
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3;-3501.2; 23-OCT-2006 08:36:52; Bright; 30.5; 53; 43Bet And ; 2.05; 3300;occ; 61; 0;24295
4;-3157.4; 23-OCT-2006 08:42:36; Bright; 32.0; 68; 18Alp Cas ; 2.22; 4500;occ; 64; 0;24295
5;-3080.0; 23-OCT-2006 08:43:54; Bright; 31.0; 76; 27Gam Cas ; 2.30; 30000;occ; 62; 0;24295
6;-2604.7; 23-OCT-2006 08:51:49; Bright; 30.5; 49; 1Alp UMi ; 1.99; 6300;occ; 61; 0;24295
7;-2400.4; 23-OCT-2006 08:55:13; Bright; 29.0; 60; 7Bet UMi ; 2.08; 3950;occ; 58; 0;24295
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6; 2952.7; 25-OCT-2006 04:19:24; Bright; 30.5; 76; 27Gam Cas ; 2.30; 30000;occ; 61; 0;24321
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8; 3640.6; 25-OCT-2006 04:30:52; Bright; 31.0; 60; 7Bet UMi ; 2.08; 3950;occ; 62; 0;24321
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11; 4232.9; 25-OCT-2006 04:40:45; Bright; 30.5; 174; 52Psi UMa ; 3.00; 4400;occ; 61; 0;24321
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13; 4729.4; 25-OCT-2006 04:49:01; Bright; 27.5; 62; 94Bet Leo ; 2.14; 9700;occ; 55; 0;24321
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17; 6114.2; 25-OCT-2006 05:12:06; Dark ; 36.5; 46; Del Vel ; 1.95; 10600;occ; 73; 0;24321
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5;-3160.7; 25-OCT-2006 22:44:43; Bright; 31.0; 68; 18Alp Cas ; 2.22; 4500;occ; 62; 0;24332
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 17; 186.4; 25-OCT-2006 23:40:30; Dark ; 32.5; 29; Bet Car ; 1.67; 10200;occ; 65; 0;24333
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 3;-3505.5; 25-OCT-2006 07:33:34; Bright; 29.5; 53; 43Bet And ; 2.05; 3300;occ; 59; 0;24323
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 7;-2605.6; 25-OCT-2006 16:11:34; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;24328
 8;-2394.3; 25-OCT-2006 16:15:06; Bright; 30.5; 60; 7Bet UMi ; 2.08; 3950;occ; 61; 0;24328
 9;-2111.8; 25-OCT-2006 16:19:48; Bright; 31.5; 36; 50Alp UMa ; 1.80; 6300;occ; 63; 0;24328
 10;-2035.9; 25-OCT-2006 16:21:04; Bright; 28.0; 32; 77Eps UMa ; 1.76; 11000;occ; 56; 0;24328
 11;-1803.5; 25-OCT-2006 16:24:56; Bright; 32.0; 174; 52Psi UMa ; 3.00; 4400;occ; 64; 0;24328
 12;-1379.7; 25-OCT-2006 16:32:00; Bright; 30.5; 96; 68Del Leo ; 2.56; 9300;occ; 61; 0;24328
 13;-1305.8; 25-OCT-2006 16:33:14; Bright; 28.5; 62; 94Bet Leo ; 2.14; 9700;occ; 57; 0;24328
 14;-200.5; 25-OCT-2006 16:51:39; Dark ; 36.0; 113; Mu Vel ; 2.69; 5000;occ; 72; 0;24328
 15;-89.0; 25-OCT-2006 16:53:31; Dark ; 50.0; 65; Lam Vel ; 2.20; 4400;occ; 100; 0;24328
 16;-14.3; 25-OCT-2006 16:54:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24328
 17; 81.6; 25-OCT-2006 16:56:21; Dark ; 34.5; 46; Del Vel ; 1.95; 10600;occ; 69; 0;24329
 18; 185.4; 25-OCT-2006 16:58:05; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;24329
 19; 846.0; 25-OCT-2006 17:09:06; Dark ; 32.5; 143; Alp Hyi ; 2.86; 7200;occ; 65; 0;24329
 20; 930.8; 25-OCT-2006 17:10:31; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;24329

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20061025_172154_000053892052_00227_24329_1264.N1

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 2;-3852.3; 25-OCT-2006 17:31:23; Bright; 30.0; 140; 88Gam Peg ; 2.83; 26000;occ; 60; 0;24329
 3;-3619.3; 25-OCT-2006 17:35:16; Bright; 31.5; 58; 21Alp And ; 2.07; 11000;occ; 63; 0;24329
 4;-3507.0; 25-OCT-2006 17:37:08; Bright; 33.5; 53; 43Bet And ; 2.05; 3300;occ; 67; 0;24329
 5;-3160.1; 25-OCT-2006 17:42:55; Bright; 32.0; 68; 18Alp Cas ; 2.22; 4500;occ; 64; 0;24329
 6;-3084.2; 25-OCT-2006 17:44:11; Bright; 30.5; 76; 27Gam Cas ; 2.30; 30000;occ; 61; 0;24329
 7;-2605.0; 25-OCT-2006 17:52:10; Bright; 30.5; 49; 1Alp UMi ; 1.99; 6300;occ; 61; 0;24329
 8;-2393.5; 25-OCT-2006 17:55:42; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;24329
 9;-2111.3; 25-OCT-2006 18:00:24; Bright; 28.5; 36; 50Alp UMa ; 1.80; 6300;occ; 57; 0;24329
 10;-2035.1; 25-OCT-2006 18:01:40; Bright; 28.0; 32; 77Eps UMa ; 1.76; 11000;occ; 56; 0;24329
 11;-1803.0; 25-OCT-2006 18:05:32; Bright; 49.0; 174; 52Psi UMa ; 3.00; 4400;occ; 98; 0;24329
 12;-1378.6; 25-OCT-2006 18:12:37; Bright; 30.0; 96; 68Del Leo ; 2.56; 9300;occ; 60; 0;24329
 13;-1305.0; 25-OCT-2006 18:13:50; Bright; 28.0; 62; 94Bet Leo ; 2.14; 9700;occ; 56; 0;24329
 14;-199.7; 25-OCT-2006 18:32:15; Dark ; 33.5; 113; Mu Vel ; 2.69; 5000;occ; 67; 0;24329
 15;-87.6; 25-OCT-2006 18:34:08; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;24329
 16;-13.0; 25-OCT-2006 18:35:22; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;24329
 17; 82.9; 25-OCT-2006 18:36:58; Dark ; 37.5; 46; Del Vel ; 1.95; 10600;occ; 75; 0;24330
 18; 186.3; 25-OCT-2006 18:38:42; Dark ; 32.0; 29; Bet Car ; 1.67; 10200;occ; 64; 0;24330
 19; 846.9; 25-OCT-2006 18:49:42; Dark ; 32.5; 143; Alp Hyi ; 2.86; 7200;occ; 65; 0;24330
 20; 931.5; 25-OCT-2006 18:51:07; Dark ; 37.0; 9; Alp Eri ; 0.45; 24000;occ; 74; 0;24330

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20061025_190230_000053872052_00228_24330_1265.N1

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 3;-3619.1; 25-OCT-2006 19:15:52; Bright; 29.5; 58; 21Alp And ; 2.07; 11000;occ; 59; 0;24330
 4;-3506.9; 25-OCT-2006 19:17:44; Bright; 32.0; 53; 43Bet And ; 2.05; 3300;occ; 64; 0;24330
 5;-3160.2; 25-OCT-2006 19:23:31; Bright; 47.0; 68; 18Alp Cas ; 2.22; 4500;occ; 94; 0;24330
 6;-3084.4; 25-OCT-2006 19:24:47; Bright; 31.0; 76; 27Gam Cas ; 2.30; 30000;occ; 62; 0;24330
 7;-2605.0; 25-OCT-2006 19:32:46; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;24330
 8;-2393.0; 25-OCT-2006 19:36:18; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;24330
 9;-2111.2; 25-OCT-2006 19:41:00; Bright; 32.5; 36; 50Alp UMa ; 1.80; 6300;occ; 65; 0;24330
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 11;-1802.8; 25-OCT-2006 19:46:08; Bright; 32.0; 174; 52Psi UMa ; 3.00; 4400;occ; 64; 0;24330
 12;-1378.3; 25-OCT-2006 19:53:13; Bright; 30.5; 96; 68Del Leo ; 2.56; 9300;occ; 61; 0;24330
 13;-1304.8; 25-OCT-2006 19:54:26; Bright; 28.0; 62; 94Bet Leo ; 2.14; 9700;occ; 56; 0;24330
 14;-199.7; 25-OCT-2006 20:12:51; Dark ; 32.5; 113; Mu Vel ; 2.69; 5000;occ; 65; 0;24330
 15;-86.8; 25-OCT-2006 20:14:44; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;24330
 16;-12.3; 25-OCT-2006 20:15:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24330
 17; 83.4; 25-OCT-2006 20:17:35; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;24331
 18; 186.7; 25-OCT-2006 20:19:18; Dark ; 32.0; 29; Bet Car ; 1.67; 10200;occ; 64; 0;24331
 19; 846.8; 25-OCT-2006 20:30:18; Dark ; 31.5; 143; Alp Hyi ; 2.86; 7200;occ; 63; 0;24331
 20; 931.8; 25-OCT-2006 20:31:43; Dark ; 35.0; 9; Alp Eri ; 0.45; 24000;occ; 70; 0;24331

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20061025_203206_000060482052_00229_24331_1267.N1

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 2;-4420.8; 25-OCT-2006 20:43:06; Dark ; 36.0; 52; 16Bet Cet ; 2.04; 4500;occ; 72; 0;24331
 3;-3852.2; 25-OCT-2006 20:52:35; Bright; 29.5; 140; 88Gam Peg ; 2.83; 26000;occ; 59; 0;24331
 4;-3619.2; 25-OCT-2006 20:56:28; Bright; 29.5; 58; 21Alp And ; 2.07; 11000;occ; 59; 0;24331

```

5;-3507.3; 25-OCT-2006 20:58:20; Bright; 32.0; 53; 43Bet And ; 2.05; 3300;occ; 64; 0;24331
6;-3160.1; 25-OCT-2006 21:04:07; Bright; 31.0; 68; 18Alp Cas ; 2.22; 4500;occ; 62; 0;24331
7;-3084.2; 25-OCT-2006 21:05:23; Bright; 30.5; 76; 27Gam Cas ; 2.30; 30000;occ; 61; 0;24331
8;-2604.9; 25-OCT-2006 21:13:22; Bright; 30.5; 49; 1Alp UMi ; 1.99; 6300;occ; 61; 0;24331
9;-2393.3; 25-OCT-2006 21:16:54; Bright; 26.5; 60; 7Bet UMi ; 2.08; 3950;occ; 53; 0;24331
10;-2111.2; 25-OCT-2006 21:21:36; Bright; 32.5; 36; 50Alp UMa ; 1.80; 6300;occ; 65; 0;24331
11;-2034.8; 25-OCT-2006 21:22:52; Bright; 31.5; 32; 77Eps UMa ; 1.76; 11000;occ; 63; 0;24331
12;-1802.7; 25-OCT-2006 21:26:44; Bright; 30.0; 174; 52Psi UMa ; 3.00; 4400;occ; 60; 0;24331
13;-1377.9; 25-OCT-2006 21:33:49; Bright; 30.0; 96; 68Del Leo ; 2.56; 9300;occ; 60; 0;24331
14;-1304.6; 25-OCT-2006 21:35:02; Bright; 28.0; 62; 94Bet Leo ; 2.14; 9700;occ; 56; 0;24331
15; -199.1; 25-OCT-2006 21:53:28; Dark ; 32.0; 113; Mu Vel ; 2.69; 5000;occ; 64; 0;24331
16; -86.2; 25-OCT-2006 21:55:21; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;24331
17; -11.6; 25-OCT-2006 21:56:35; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;24331
18; 84.1; 25-OCT-2006 21:58:11; Dark ; 34.5; 46; Del Vel ; 1.95; 10600;occ; 69; 0;24332
19; 186.8; 25-OCT-2006 21:59:54; Dark ; 32.0; 29; Bet Car ; 1.67; 10200;occ; 64; 0;24332
20; 847.3; 25-OCT-2006 22:10:54; Dark ; 31.5; 143; Alp Hyi ; 2.86; 7200;occ; 63; 0;24332
21; 932.0; 25-OCT-2006 22:12:19; Dark ; 36.5; 9; Alp Eri ; 0.45; 24000;occ; 73; 0;24332
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20061026_000418_000055602052_00231_24333_0965.N1
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2; 2184.1; 26-OCT-2006 00:13:47; Bright; 30.5; 140; 88Gam Peg ; 2.83; 26000;occ; 61; 0;24333
3; 2416.9; 26-OCT-2006 00:17:40; Bright; 30.5; 58; 21Alp And ; 2.07; 11000;occ; 61; 0;24333
4; 2528.6; 26-OCT-2006 00:19:31; Bright; 33.5; 53; 43Bet And ; 2.05; 3300;occ; 67; 0;24333
5; 2875.8; 26-OCT-2006 00:25:19; Bright; 30.5; 68; 18Alp Cas ; 2.22; 4500;occ; 61; 0;24333
6; 2951.3; 26-OCT-2006 00:26:34; Bright; 32.0; 76; 27Gam Cas ; 2.30; 30000;occ; 64; 0;24333
7; 3430.9; 26-OCT-2006 00:34:34; Bright; 27.0; 49; 1Alp UMi ; 1.99; 6300;occ; 54; 0;24333
8; 3643.5; 26-OCT-2006 00:38:06; Bright; 30.5; 60; 7Bet UMi ; 2.08; 3950;occ; 61; 0;24333
9; 3924.8; 26-OCT-2006 00:42:48; Bright; 33.0; 36; 50Alp UMa ; 1.80; 6300;occ; 66; 0;24333
10; 4001.2; 26-OCT-2006 00:44:04; Bright; 28.5; 32; 77Eps UMa ; 1.76; 11000;occ; 57; 0;24333
11; 4233.2; 26-OCT-2006 00:47:56; Bright; 31.5; 174; 52Psi UMa ; 3.00; 4400;occ; 63; 0;24333
12; 4658.2; 26-OCT-2006 00:55:01; Bright; 28.5; 96; 68Del Leo ; 2.56; 9300;occ; 57; 0;24333
13; 4731.8; 26-OCT-2006 00:56:15; Bright; 26.0; 62; 94Bet Leo ; 2.14; 9700;occ; 52; 0;24333
14; 5837.5; 26-OCT-2006 01:14:40; Dark ; 32.5; 113; Mu Vel ; 2.69; 5000;occ; 65; 0;24333
15; 5951.2; 26-OCT-2006 01:16:34; Dark ; 38.0; 65; Lam Vel ; 2.20; 4400;occ; 76; 0;24333
16; 6025.6; 26-OCT-2006 01:17:48; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;24333
17; 6121.1; 26-OCT-2006 01:19:24; Dark ; 34.5; 46; Del Vel ; 1.95; 10600;occ; 69; 0;24333
18; 6223.2; 26-OCT-2006 01:21:06; Dark ; 32.5; 29; Bet Car ; 1.67; 10200;occ; 65; 0;24333
19; 6883.4; 26-OCT-2006 01:32:06; Dark ; 32.5; 143; Alp Hyi ; 2.86; 7200;occ; 65; 0;24333
20; 6968.3; 26-OCT-2006 01:33:31; Dark ; 33.0; 9; Alp Eri ; 0.45; 24000;occ; 66; 0;24333
21; 7151.7; 26-OCT-2006 01:36:35; Dark ; 24.5; 157; The1Eri ; 2.91; 9300;occ; 49; 0;24333
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2;-3852.3; 26-OCT-2006 01:54:23; Bright; 29.5; 140; 88Gam Peg ; 2.83; 26000;occ; 59; 0;24334
3;-3619.3; 26-OCT-2006 01:58:16; Bright; 31.0; 58; 21Alp And ; 2.07; 11000;occ; 62; 0;24334
4;-3508.1; 26-OCT-2006 02:00:07; Bright; 34.0; 53; 43Bet And ; 2.05; 3300;occ; 68; 0;24334
5;-3161.1; 26-OCT-2006 02:05:54; Bright; 30.0; 68; 18Alp Cas ; 2.22; 4500;occ; 60; 0;24334
6;-3085.4; 26-OCT-2006 02:07:10; Bright; 29.5; 76; 27Gam Cas ; 2.30; 30000;occ; 59; 0;24334
7;-2605.6; 26-OCT-2006 02:15:10; Bright; 28.0; 49; 1Alp UMi ; 1.99; 6300;occ; 56; 0;24334
8;-2393.1; 26-OCT-2006 02:18:42; Bright; 31.0; 60; 7Bet UMi ; 2.08; 3950;occ; 62; 0;24334
9;-2112.0; 26-OCT-2006 02:23:23; Bright; 32.0; 36; 50Alp UMa ; 1.80; 6300;occ; 64; 0;24334
10;-2035.0; 26-OCT-2006 02:24:40; Bright; 30.5; 32; 77Eps UMa ; 1.76; 11000;occ; 61; 0;24334
11;-1803.2; 26-OCT-2006 02:28:32; Bright; 29.0; 174; 52Psi UMa ; 3.00; 4400;occ; 58; 0;24334
12;-1378.0; 26-OCT-2006 02:35:37; Bright; 30.0; 96; 68Del Leo ; 2.56; 9300;occ; 60; 0;24334
13;-1304.5; 26-OCT-2006 02:36:51; Bright; 27.5; 62; 94Bet Leo ; 2.14; 9700;occ; 55; 0;24334
14; -198.8; 26-OCT-2006 02:55:16; Dark ; 32.5; 113; Mu Vel ; 2.69; 5000;occ; 65; 0;24334
15; -84.7; 26-OCT-2006 02:57:11; Dark ; 32.0; 65; Lam Vel ; 2.20; 4400;occ; 64; 0;24334
16; -10.2; 26-OCT-2006 02:58:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24334
17; 85.3; 26-OCT-2006 03:00:01; Dark ; 34.0; 46; Del Vel ; 1.95; 10600;occ; 68; 0;24335
18; 187.0; 26-OCT-2006 03:01:42; Dark ; 32.5; 29; Bet Car ; 1.67; 10200;occ; 65; 0;24335
19; 847.5; 26-OCT-2006 03:12:43; Dark ; 31.5; 143; Alp Hyi ; 2.86; 7200;occ; 63; 0;24335
20; 932.1; 26-OCT-2006 03:14:07; Dark ; 37.0; 9; Alp Eri ; 0.45; 24000;occ; 74; 0;24335
21; 1115.8; 26-OCT-2006 03:17:11; Dark ; 24.5; 157; The1Eri ; 2.91; 9300;occ; 49; 0;24335
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20061026_032531_000060432052_00233_24335_0967.N1
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2;-3851.4; 26-OCT-2006 03:34:59; Bright; 29.5; 140; 88Gam Peg ; 2.83; 26000;occ; 59; 0;24335
3;-3618.8; 26-OCT-2006 03:38:52; Bright; 32.0; 58; 21Alp And ; 2.07; 11000;occ; 64; 0;24335
4;-3507.8; 26-OCT-2006 03:40:43; Bright; 30.5; 53; 43Bet And ; 2.05; 3300;occ; 61; 0;24335
5;-3160.5; 26-OCT-2006 03:46:30; Bright; 30.0; 68; 18Alp Cas ; 2.22; 4500;occ; 60; 0;24335
6;-3084.8; 26-OCT-2006 03:47:46; Bright; 30.0; 76; 27Gam Cas ; 2.30; 30000;occ; 60; 0;24335

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7;-2605.4; 26-OCT-2006 03:55:45; Bright; 27.5; 49; 1Alp UMi ; 1.99; 6300;occ; 55; 0;24335
8;-2392.2; 26-OCT-2006 03:59:18; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;24335
9;-2111.2; 26-OCT-2006 04:03:59; Bright; 32.5; 36; 50Alp UMa ; 1.80; 6300;occ; 65; 0;24335
10;-2033.7; 26-OCT-2006 04:05:17; Bright; 27.5; 32; 77Eps UMa ; 1.76; 11000;occ; 55; 0;24335
11;-1802.3; 26-OCT-2006 04:09:08; Bright; 30.5; 174; 52Psi UMa ; 3.00; 4400;occ; 61; 0;24335
12;-1377.0; 26-OCT-2006 04:16:14; Bright; 30.5; 96; 68Del Leo ; 2.56; 9300;occ; 61; 0;24335
13;-1303.1; 26-OCT-2006 04:17:28; Bright; 27.0; 62; 94Bet Leo ; 2.14; 9700;occ; 54; 0;24335
14; -197.8; 26-OCT-2006 04:35:53; Dark ; 34.0; 113; Mu Vel ; 2.69; 5000;occ; 68; 0;24335
15; -83.4; 26-OCT-2006 04:37:47; Dark ; 32.0; 65; Lam Vel ; 2.20; 4400;occ; 64; 0;24335
16; -8.9; 26-OCT-2006 04:39:02; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;24335
17; 86.6; 26-OCT-2006 04:40:37; Dark ; 44.0; 46; Del Vel ; 1.95; 10600;occ; 88; 0;24336
18; 187.9; 26-OCT-2006 04:42:19; Dark ; 33.5; 29; Bet Car ; 1.67; 10200;occ; 67; 0;24336
19; 848.2; 26-OCT-2006 04:53:19; Dark ; 31.0; 143; Alp Hyi ; 2.86; 7200;occ; 62; 0;24336
20; 932.8; 26-OCT-2006 04:54:43; Dark ; 38.0; 9; Alp Eri ; 0.45; 24000;occ; 76; 0;24336
21; 1116.7; 26-OCT-2006 04:57:47; Dark ; 31.0; 157; The1Eri ; 2.91; 9300;occ; 62; 0;24336
22; 1615.7; 26-OCT-2006 05:06:06; Dark ; 8.5; 52; 16Bet Cet ; 2.04; 4500;occ; 17; 0;24336
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2;-4419.0; 26-OCT-2006 21:52:07; Dark ; 37.0; 52; 16Bet Cet ; 2.04; 4500;occ; 74; 0;24346
3;-3850.2; 26-OCT-2006 22:01:36; Bright; 29.5; 140; 88Gam Peg ; 2.83; 26000;occ; 59; 0;24346
4;-3617.8; 26-OCT-2006 22:05:29; Bright; 30.5; 58; 21Alp And ; 2.07; 11000;occ; 61; 0;24346
5;-3509.8; 26-OCT-2006 22:07:17; Bright; 31.0; 53; 43Bet And ; 2.05; 3300;occ; 62; 0;24346
6;-3161.4; 26-OCT-2006 22:13:05; Bright; 31.5; 68; 18Alp Cas ; 2.22; 4500;occ; 63; 0;24346
7;-3086.4; 26-OCT-2006 22:14:20; Bright; 30.5; 76; 27Gam Cas ; 2.30; 30000;occ; 61; 0;24346
8;-2605.9; 26-OCT-2006 22:22:21; Bright; 27.0; 49; 1Alp UMi ; 1.99; 6300;occ; 54; 0;24346
9;-2390.9; 26-OCT-2006 22:25:56; Bright; 31.0; 60; 7Bet UMi ; 2.08; 3950;occ; 62; 0;24346
10;-2112.2; 26-OCT-2006 22:30:34; Bright; 32.0; 36; 50Alp UMa ; 1.80; 6300;occ; 64; 0;24346
11;-2033.1; 26-OCT-2006 22:31:53; Bright; 31.0; 32; 77Eps UMa ; 1.76; 11000;occ; 62; 0;24346
12;-1802.6; 26-OCT-2006 22:35:44; Bright; 31.5; 174; 52Psi UMa ; 3.00; 4400;occ; 63; 0;24346
13;-1375.1; 26-OCT-2006 22:42:51; Bright; 29.0; 96; 68Del Leo ; 2.56; 9300;occ; 58; 0;24346
14;-1301.5; 26-OCT-2006 22:44:05; Bright; 26.5; 62; 94Bet Leo ; 2.14; 9700;occ; 53; 0;24346
15; -195.0; 26-OCT-2006 23:02:32; Dark ; 35.5; 113; Mu Vel ; 2.69; 5000;occ; 71; 0;24346
16; -1.9; 26-OCT-2006 23:05:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24346
17; 92.7; 26-OCT-2006 23:07:19; Dark ; 36.5; 46; Del Vel ; 1.95; 10600;occ; 73; 0;24347
18; 190.6; 26-OCT-2006 23:08:57; Dark ; 32.0; 29; Bet Car ; 1.67; 10200;occ; 64; 0;24347
19; 849.9; 26-OCT-2006 23:19:56; Dark ; 31.5; 143; Alp Hyi ; 2.86; 7200;occ; 63; 0;24347
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12;-1303.0; 26-OCT-2006 07:38:40; Bright; 26.5; 62; 94Bet Leo ; 2.14; 9700;occ; 53; 0;24337
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13;-1302.8; 26-OCT-2006 10:59:52; Bright; 28.5; 62; 94Bet Leo ; 2.14; 9700;occ; 57; 0;24339
14; -196.5; 26-OCT-2006 11:18:18; Dark ; 37.0; 113; Mu Vel ; 2.69; 5000;occ; 74; 0;24339
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 7; 3430.4; 27-OCT-2006 01:43:32; Bright; 30.0; 49; 1Alp UMi ; 1.99; 6300;occ; 60; 0;24348
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16; 193.6; 27-OCT-2006 10:53:11; Dark ; 32.5; 29; Bet Car ; 1.67; 10200;occ; 65; 0;24354
17; 430.5; 27-OCT-2006 10:57:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24354
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19; 936.4; 27-OCT-2006 11:05:34; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;24354
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15; 21.9; 27-OCT-2006 12:30:55; Dark ; 34.5; 91; Kap Vel ; 2.49; 26000;occ; 69; 0;24355
16; 193.8; 27-OCT-2006 12:33:47; Dark ; 31.0; 29; Bet Car ; 1.67; 10200;occ; 62; 0;24355
17; 430.9; 27-OCT-2006 12:37:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24355
18; 852.5; 27-OCT-2006 12:44:46; Dark ; 32.5; 143; Alp Hyi ; 2.86; 7200;occ; 65; 0;24355

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13; 4737.2; 27-OCT-2006 13:49:30; Bright; 28.0; 62; 94Bet Leo ; 2.14; 9700;occ; 56; 0;24355
14; 5845.0; 27-OCT-2006 14:07:58; Dark ; 35.0; 113; Mu Vel ; 2.69; 5000;occ; 70; 0;24355
15; 6058.2; 27-OCT-2006 14:11:31; Dark ; 34.0; 91; Kap Vel ; 2.49; 26000;occ; 68; 0;24355
16; 6230.2; 27-OCT-2006 14:14:23; Dark ; 33.5; 29; Bet Car ; 1.67; 10200;occ; 67; 0;24355
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19; 6972.9; 27-OCT-2006 14:26:46; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;24355
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5;-3161.7; 27-OCT-2006 23:22:03; Bright; 32.0; 68; 18Alp Cas ; 2.22; 4500;occ; 64; 0;24361
6;-3087.5; 27-OCT-2006 23:23:17; Bright; 31.0; 76; 27Gam Cas ; 2.30; 30000;occ; 62; 0;24361
7;-2605.6; 27-OCT-2006 23:31:19; Bright; 30.5; 49; 1Alp UMi ; 1.99; 6300;occ; 61; 0;24361
8;-2387.2; 27-OCT-2006 23:34:58; Bright; 30.5; 60; 7Bet UMi ; 2.08; 3950;occ; 61; 0;24361
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11;-1801.3; 27-OCT-2006 23:44:43; Bright; 32.0; 174; 52Psi UMa ; 3.00; 4400;occ; 64; 0;24361
12;-1371.2; 27-OCT-2006 23:51:54; Bright; 31.5; 96; 68Del Leo ; 2.56; 9300;occ; 63; 0;24361
13;-1297.7; 27-OCT-2006 23:53:07; Bright; 28.5; 62; 94Bet Leo ; 2.14; 9700;occ; 57; 0;24361
14;-189.1; 28-OCT-2006 00:11:36; Dark ; 33.0; 113; Mu Vel ; 2.69; 5000;occ; 66; 0;24361
15; 25.4; 28-OCT-2006 00:15:10; Dark ; 34.0; 91; Kap Vel ; 2.49; 26000;occ; 68; 0;24362
16; 195.7; 28-OCT-2006 00:18:00; Dark ; 31.5; 29; Bet Car ; 1.67; 10200;occ; 63; 0;24362
17; 433.5; 28-OCT-2006 00:21:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;24362
18; 853.8; 28-OCT-2006 00:28:59; Dark ; 34.0; 143; Alp Hyi ; 2.86; 7200;occ; 68; 0;24362
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16; 24.0; 27-OCT-2006 19:13:21; Dark ; 34.0; 91; Kap Vel ; 2.49; 26000;occ; 68; 0;24359
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17; 24.6; 27-OCT-2006 20:53:58; Dark ; 33.5; 91; Kap Vel ; 2.49; 26000;occ; 67; 0;24360
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13; 4738.3; 28-OCT-2006 01:33:43; Bright; 28.0; 62; 94Bet Leo ; 2.14; 9700;occ; 56; 0;24362
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9; 3923.4; 28-OCT-2006 04:41:20; Bright; 32.5; 36; 50Alp UMa ; 1.80; 6300;occ; 65; 0;24364

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13;-186.8; 28-OCT-2006 08:34:38; Dark ; 35.0; 113; Mu Vel ; 2.69; 5000;occ; 70; 0;24366
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16; 198.5; 28-OCT-2006 12:02:15; Dark ; 33.0; 29; Bet Car ; 1.67; 10200;occ; 66; 0;24369
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 13; 5868.8; 31-OCT-2006 23:46:06; Dark ; 32.5; 113; Mu Vel ; 2.69; 5000;occ; 65; 0;24418
 14; 6092.9; 31-OCT-2006 23:49:50; Dark ; 34.0; 91; Kap Vel ; 2.49; 26000;occ; 68; 0;24418
 15; 6199.6; 31-OCT-2006 23:51:37; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;24418
 16; 6901.2; 01-NOV-2006 00:03:19; Dark ; 31.5; 143; Alp Hyi ; 2.86; 7200;occ; 63; 0;24418
 17; 6984.2; 01-NOV-2006 00:04:41; Dark ; 37.5; 9; Alp Eri ; 0.45; 24000;occ; 75; 0;24418

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20061031_204332_000060682052_00315_24417_1328.N1

1;-5084.2; 31-OCT-2006 20:43:32; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 6;24417
 2;-4406.5; 31-OCT-2006 20:54:50; Dark ; 38.5; 52; 16Bet Cet ; 2.04; 4500;occ; 77; 0;24417
 3;-3835.8; 31-OCT-2006 21:04:21; Bright; 28.0; 140; 88Gam Peg ; 2.83; 26000;occ; 56; 0;24417
 4;-3604.1; 31-OCT-2006 21:08:13; Bright; 30.5; 58; 21Alp And ; 2.07; 11000;occ; 61; 0;24417
 5;-3514.8; 31-OCT-2006 21:09:42; Bright; 31.0; 53; 43Bet And ; 2.05; 3300;occ; 62; 0;24417
 6;-3161.8; 31-OCT-2006 21:15:35; Bright; 31.0; 68; 18Alp Cas ; 2.22; 4500;occ; 62; 0;24417
 7;-3090.4; 31-OCT-2006 21:16:46; Bright; 29.0; 76; 27Gam Cas ; 2.30; 30000;occ; 58; 0;24417
 8;-2605.9; 31-OCT-2006 21:24:51; Bright; 29.0; 49; 1Alp UMi ; 1.99; 6300;occ; 58; 0;24417
 9;-2376.9; 31-OCT-2006 21:28:40; Bright; 27.0; 60; 7Bet UMi ; 2.08; 3950;occ; 54; 0;24417
 10;-2023.1; 31-OCT-2006 21:34:34; Bright; 30.0; 32; 77Eps UMa ; 1.76; 11000;occ; 60; 0;24417
 11;-1946.0; 31-OCT-2006 21:35:51; Bright; 30.0; 39; 85Eta UMa ; 1.85; 24000;occ; 60; 0;24417
 12;-1729.9; 31-OCT-2006 21:39:27; Bright; 28.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 57; 0;24417
 13;-1285.0; 31-OCT-2006 21:46:52; Bright; 30.0; 62; 94Bet Leo ; 2.14; 9700;occ; 60; 0;24417
 14; -167.0; 31-OCT-2006 22:05:30; Dark ; 35.5; 113; Mu Vel ; 2.69; 5000;occ; 71; 0;24417
 15; 57.1; 31-OCT-2006 22:09:14; Dark ; 34.5; 91; Kap Vel ; 2.49; 26000;occ; 69; 0;24418
 16; 164.2; 31-OCT-2006 22:11:01; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;24418
 17; 865.4; 31-OCT-2006 22:22:42; Dark ; 31.5; 143; Alp Hyi ; 2.86; 7200;occ; 63; 0;24418
 18; 948.9; 31-OCT-2006 22:24:06; Dark ; 35.5; 9; Alp Eri ; 0.45; 24000;occ; 71; 0;24418