

# GOMOS Daily Report 28-AUG-2008

## Level 0 and Level 1 products

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

| Item                      | Value              |
|---------------------------|--------------------|
| Time of report generation | 30AUG2008 05:32:26 |
| Data source version       | GOMOS/5.00         |
| Start time of products    | 28AUG2008 00:00:20 |
| Stop time of products     | 28AUG2008 21:14:31 |
| Store outputs in DB       | Yes                |
| Nb of level 1b prods      | 48                 |
| Nb of prods with errors   | 2                  |

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

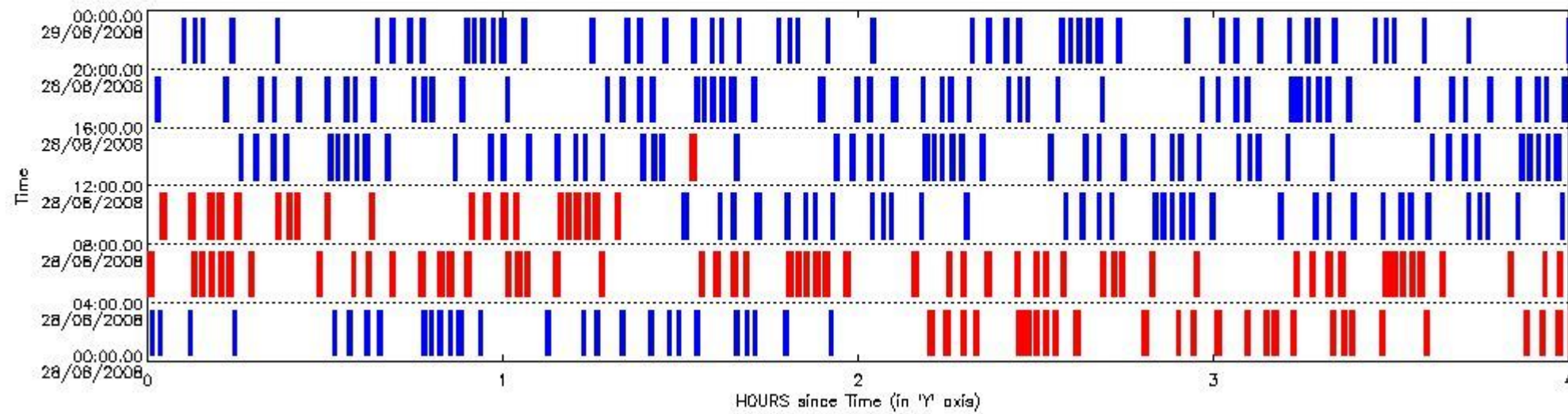
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



### 2.3 Summary of missing occultations (red segments in previous plot)

| UTC start time       | Star name | Star ID | Orbit |
|----------------------|-----------|---------|-------|
| 28-AUG-2008 02:11:46 | 66AlpGem  | 24      | 33953 |
| 28-AUG-2008 02:14:21 | 27EpsGem  | 170     | 33953 |
| 28-AUG-2008 02:17:14 | 24GamGem  | 44      | 33953 |
| 28-AUG-2008 02:19:21 | 10AlpCMi  | 8       | 33953 |
| 28-AUG-2008 02:26:45 | 9AlpCMa   | 1       | 33953 |
| 28-AUG-2008 02:28:08 | 24Omi2CMa | 179     | 33953 |
| 28-AUG-2008 02:29:36 | 21EpsCMa  | 23      | 33953 |
| 28-AUG-2008 02:31:17 | PIPup     | 117     | 33953 |
| 28-AUG-2008 02:32:44 | DSA1059   | 0       | 33953 |
| 28-AUG-2008 02:36:24 | AlpCar    | 2       | 33953 |
| 28-AUG-2008 02:47:49 | AlpEri    | 9       | 33954 |
| 28-AUG-2008 02:53:47 | AlpPhe    | 84      | 33954 |
| 28-AUG-2008 02:56:08 | AlpGru    | 31      | 33954 |
| 28-AUG-2008 03:00:12 | 24AlpPsA  | 18      | 33954 |
| 28-AUG-2008 03:05:10 | 49DelCap  | 142     | 33954 |

|                      |           |     |       |
|----------------------|-----------|-----|-------|
| 28-AUG-2008 03:08:21 | 22BetAqr  | 154 | 33954 |
| 28-AUG-2008 03:09:55 | 34AlpAqr  | 162 | 33954 |
| 28-AUG-2008 03:12:56 | 8EpsPeg   | 61  | 33954 |
| 28-AUG-2008 03:19:43 | 53EpsCyg  | 92  | 33954 |
| 28-AUG-2008 03:21:32 | 37GamCyg  | 66  | 33954 |
| 28-AUG-2008 03:22:55 | 50AlpCyg  | 19  | 33954 |
| 28-AUG-2008 03:27:59 | 5AlpCep   | 89  | 33954 |
| 28-AUG-2008 03:35:33 | 1AlpUMi   | 49  | 33954 |
| 28-AUG-2008 03:52:22 | 66AlpGem  | 24  | 33954 |
| 28-AUG-2008 03:54:57 | 27EpsGem  | 170 | 33954 |
| 28-AUG-2008 03:57:51 | 24GamGem  | 44  | 33954 |
| 28-AUG-2008 03:59:57 | 10AlpCMi  | 8   | 33954 |
| 28-AUG-2008 04:07:22 | 9AlpCMa   | 1   | 33954 |
| 28-AUG-2008 04:08:44 | 24Omi2CMa | 179 | 33954 |
| 28-AUG-2008 04:10:12 | 21EpsCMa  | 23  | 33954 |
| 28-AUG-2008 04:11:53 | PIPup     | 117 | 33954 |
| 28-AUG-2008 04:13:21 | DSA1059   | 0   | 33954 |
| 28-AUG-2008 04:17:00 | AlpCar    | 2   | 33954 |
| 28-AUG-2008 04:28:26 | AlpEri    | 9   | 33955 |
| 28-AUG-2008 04:34:24 | AlpPhe    | 84  | 33955 |
| 28-AUG-2008 04:36:45 | AlpGru    | 31  | 33955 |
| 28-AUG-2008 04:40:48 | 24AlpPsA  | 18  | 33955 |
| 28-AUG-2008 04:45:46 | 49DelCap  | 142 | 33955 |
| 28-AUG-2008 04:48:57 | 22BetAqr  | 154 | 33955 |
| 28-AUG-2008 04:50:31 | 34AlpAqr  | 162 | 33955 |
| 28-AUG-2008 04:53:32 | 8EpsPeg   | 61  | 33955 |
| 28-AUG-2008 05:00:19 | 53EpsCyg  | 92  | 33955 |
| 28-AUG-2008 05:02:08 | 37GamCyg  | 66  | 33955 |
| 28-AUG-2008 05:03:30 | 50AlpCyg  | 19  | 33955 |
| 28-AUG-2008 05:08:35 | 5AlpCep   | 89  | 33955 |
| 28-AUG-2008 05:16:09 | 1AlpUMi   | 49  | 33955 |
| 28-AUG-2008 05:32:59 | 66AlpGem  | 24  | 33955 |
| 28-AUG-2008 05:35:34 | 27EpsGem  | 170 | 33955 |
| 28-AUG-2008 05:38:27 | 24GamGem  | 44  | 33955 |
| 28-AUG-2008 05:40:33 | 10AlpCMi  | 8   | 33955 |
| 28-AUG-2008 05:47:58 | 9AlpCMa   | 1   | 33955 |
| 28-AUG-2008 05:49:20 | 24Omi2CMa | 179 | 33955 |
| 28-AUG-2008 05:50:49 | 21EpsCMa  | 23  | 33955 |
| 28-AUG-2008 05:52:30 | PIPup     | 117 | 33955 |
| 28-AUG-2008 05:53:57 | DSA1059   | 0   | 33955 |
| 28-AUG-2008 05:57:36 | AlpCar    | 2   | 33955 |
| 28-AUG-2008 06:09:03 | AlpEri    | 9   | 33956 |
| 28-AUG-2008 06:15:00 | AlpPhe    | 84  | 33956 |
| 28-AUG-2008 06:17:21 | AlpGru    | 31  | 33956 |
| 28-AUG-2008 06:21:24 | 24AlpPsA  | 18  | 33956 |
| 28-AUG-2008 06:26:22 | 49DelCap  | 142 | 33956 |
| 28-AUG-2008 06:29:33 | 22BetAqr  | 154 | 33956 |
| 28-AUG-2008 06:31:07 | 34AlpAqr  | 162 | 33956 |
| 28-AUG-2008 06:34:08 | 8EpsPeg   | 61  | 33956 |
| 28-AUG-2008 06:40:55 | 53EpsCyg  | 92  | 33956 |
| 28-AUG-2008 06:42:44 | 37GamCyg  | 66  | 33956 |
| 28-AUG-2008 06:44:06 | 50AlpCyg  | 19  | 33956 |
| 28-AUG-2008 06:49:10 | 5AlpCep   | 89  | 33956 |
| 28-AUG-2008 06:56:44 | 1AlpUMi   | 49  | 33956 |
| 28-AUG-2008 07:13:35 | 66AlpGem  | 24  | 33956 |
| 28-AUG-2008 07:16:10 | 27EpsGem  | 170 | 33956 |
| 28-AUG-2008 07:19:03 | 24GamGem  | 44  | 33956 |
| 28-AUG-2008 07:21:10 | 10AlpCMi  | 8   | 33956 |
| 28-AUG-2008 07:28:35 | 9AlpCMa   | 1   | 33956 |

|                      |           |     |       |
|----------------------|-----------|-----|-------|
| 28-AUG-2008 07:29:57 | 24Omi2CMa | 179 | 33956 |
| 28-AUG-2008 07:31:25 | 21EpsCMa  | 23  | 33956 |
| 28-AUG-2008 07:33:06 | PiPup     | 117 | 33956 |
| 28-AUG-2008 07:34:34 | DSA1059   | 0   | 33956 |
| 28-AUG-2008 07:38:13 | AlpCar    | 2   | 33956 |
| 28-AUG-2008 07:49:39 | AlpEri    | 9   | 33957 |
| 28-AUG-2008 07:55:37 | AlpPhe    | 84  | 33957 |
| 28-AUG-2008 07:57:57 | AlpGru    | 31  | 33957 |
| 28-AUG-2008 08:02:01 | 24AlpPsA  | 18  | 33957 |
| 28-AUG-2008 08:06:58 | 49DelCap  | 142 | 33957 |
| 28-AUG-2008 08:10:09 | 22BetAqr  | 154 | 33957 |
| 28-AUG-2008 08:11:43 | 34AlpAqr  | 162 | 33957 |
| 28-AUG-2008 08:14:44 | 8EpsPeg   | 61  | 33957 |
| 28-AUG-2008 08:21:31 | 53EpsCyg  | 92  | 33957 |
| 28-AUG-2008 08:23:20 | 37GamCyg  | 66  | 33957 |
| 28-AUG-2008 08:24:42 | 50AlpCyg  | 19  | 33957 |
| 28-AUG-2008 08:29:46 | 5AlpCep   | 89  | 33957 |
| 28-AUG-2008 08:37:20 | 1AlpUMi   | 49  | 33957 |
| 28-AUG-2008 08:54:11 | 66AlpGem  | 24  | 33957 |
| 28-AUG-2008 08:56:46 | 27EpsGem  | 170 | 33957 |
| 28-AUG-2008 08:59:39 | 24GamGem  | 44  | 33957 |
| 28-AUG-2008 09:01:46 | 10AlpCMi  | 8   | 33957 |
| 28-AUG-2008 09:09:11 | 9AlpCMa   | 1   | 33957 |
| 28-AUG-2008 09:10:33 | 24Omi2CMa | 179 | 33957 |
| 28-AUG-2008 09:12:01 | 21EpsCMa  | 23  | 33957 |
| 28-AUG-2008 09:13:42 | PiPup     | 117 | 33957 |
| 28-AUG-2008 09:15:10 | DSA1059   | 0   | 33957 |
| 28-AUG-2008 09:18:49 | AlpCar    | 2   | 33957 |
| 28-AUG-2008 13:31:34 | 5AlpCep   | 89  | 33960 |

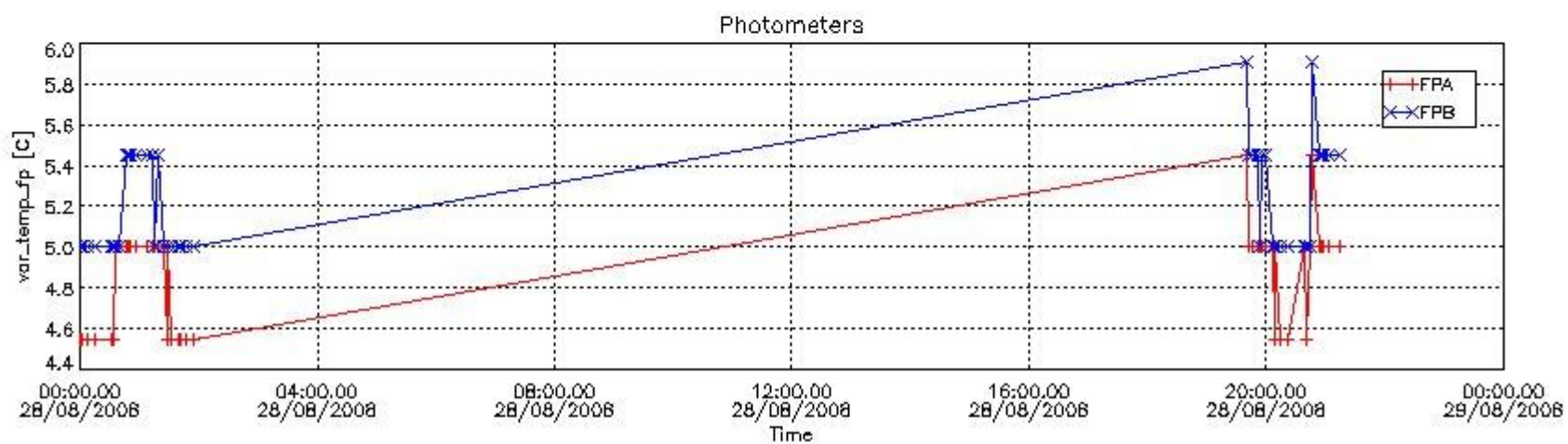
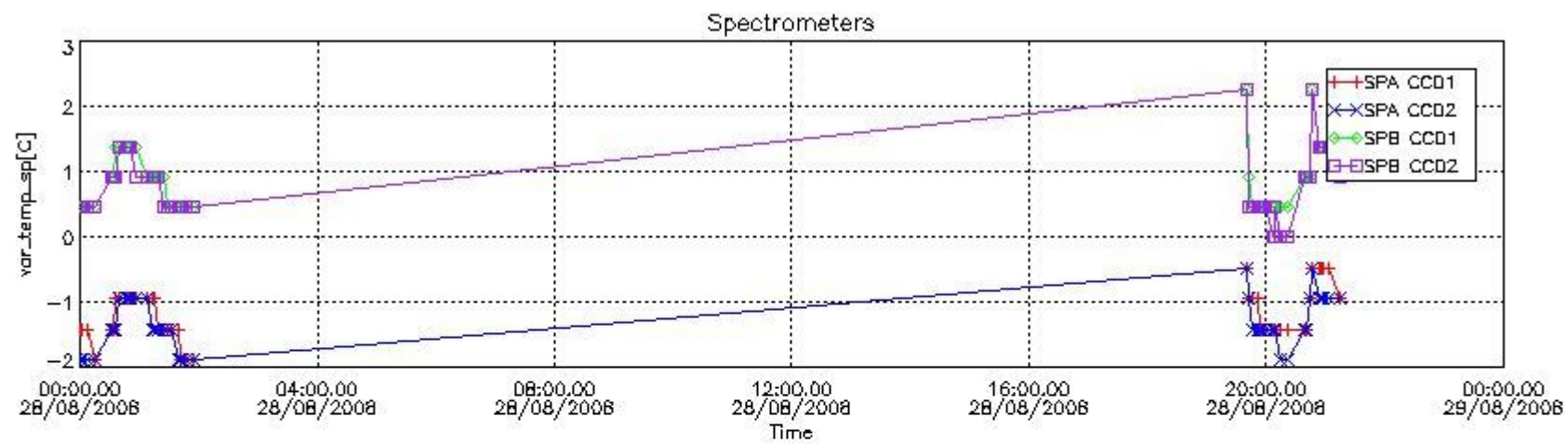
#### 2.4 Summary of processed GOM\_TRA\_1P products

| Nr | Filename   | UTC Start time       | Limb       | Duration | Star Id | Star Name | Star Mag | Star Temp | Nb Meas | Orbit | Prod. error |
|----|--|----------------------|------------|----------|---------|-----------|----------|-----------|---------|-------|-------------|
| 1  | GOM_TRA_1PNPDE20080828_000020_000000352071_00331_33952_0699.N1 | 28-AUG-2008 00:00:20 | Bright     | 34.500   | 66      | 37Gam Cyg | 2.2080   | 5900.0    | 69      | 33952 | No          |
| 2  | GOM_TRA_1PNPDE20080828_000143_000000352071_00331_33952_0700.N1 | 28-AUG-2008 00:01:43 | Bright     | 34.500   | 19      | 50Alp Cyg | 1.2460   | 10500.    | 69      | 33952 | No          |
| 3  | GOM_TRA_1PNPDE20080828_000647_000000372071_00331_33952_0701.N1 | 28-AUG-2008 00:06:47 | Bright     | 37.000   | 89      | 5Alp Cep  | 2.4510   | 8000.0    | 74      | 33952 | No          |
| 4  | GOM_TRA_1PNPDE20080828_001421_000000342071_00331_33952_0702.N1 | 28-AUG-2008 00:14:21 | Bright     | 33.500   | 49      | 1Alp UMi  | 1.9900   | 6300.0    | 67      | 33952 | No          |
| 5  | GOM_TRA_1PNPDE20080828_003110_000000402071_00331_33952_0703.N1 | 28-AUG-2008 00:31:10 | Bright     | 39.500   | 24      | 66Alp Gem | 1.5800   | 10200.    | 79      | 33952 | No          |
| 6  | GOM_TRA_1PNPDE20080828_003345_000000442071_00331_33952_0704.N1 | 28-AUG-2008 00:33:45 | Bright     | 43.500   | 170     | 27Eps Gem | 3.0000   | 9700.0    | 87      | 33952 | No          |
| 7  | GOM_TRA_1PNPDE20080828_003638_000000462071_00331_33952_0705.N1 | 28-AUG-2008 00:36:38 | Twilight   | 45.500   | 44      | 24Gam Gem | 1.9280   | 11000.    | 91      | 33952 | No          |
| 8  | GOM_TRA_1PNPDE20080828_003845_000000452071_00331_33952_0706.N1 | 28-AUG-2008 00:38:45 | Twilight   | 44.500   | 8       | 10Alp CMi | 0.40000  | 6500.0    | 89      | 33952 | No          |
| 9  | GOM_TRA_1PNPDE20080828_004609_000000492071_00331_33952_0828.N1 | 28-AUG-2008 00:46:09 | Dark       | 48.500   | 1       | 9Alp CMa  | -1.4400  | 11000.    | 97      | 33952 | No          |
| 10 | GOM_TRA_1PNPDE20080828_004731_000000382071_00331_33952_0829.N1 | 28-AUG-2008 00:47:31 | Dark       | 37.500   | 179     | 24Omi2CMa | 3.0320   | 24000.    | 75      | 33952 | No          |
| 11 | GOM_TRA_1PNPDE20080828_004859_000000442071_00331_33952_0830.N1 | 28-AUG-2008 00:48:59 | Dark       | 44.000   | 23      | 21Eps CMa | 1.5020   | 26000.    | 88      | 33952 | No          |
| 12 | GOM_TRA_1PNPDE20080828_005041_000000432071_00331_33952_0831.N1 | 28-AUG-2008 00:50:41 | Dark       | 42.500   | 117     | Pi Pup    | 2.7060   | 3800.0    | 85      | 33952 | No          |
| 13 | GOM_TRA_1PNPDE20080828_005547_000000442071_00331_33952_0832.N1 | 28-AUG-2008 00:55:47 | Dark       | 43.500   | 2       | Alp Car   | -0.73600 | 7000.0    | 87      | 33952 | No          |
| 14 | GOM_TRA_1PNPDE20080828_010713_000000422071_00332_33953_0833.N1 | 28-AUG-2008 01:07:13 | Dark       | 42.000   | 9       | Alp Eri   | 0.45300  | 24000.    | 84      | 33953 | No          |
| 15 | GOM_TRA_1PNPDE20080828_011311_000000332071_00332_33953_0834.N1 | 28-AUG-2008 01:13:11 | Straylight | 33.000   | 84      | Alp Phe   | 2.3970   | 4500.0    | 66      | 33953 | No          |
| 16 | GOM_TRA_1PNPDE20080828_011532_000000402071_00332_33953_0835.N1 | 28-AUG-2008 01:15:32 | Straylight | 39.500   | 31      | Alp Gru   | 1.7340   | 15200.    | 79      | 33953 | No          |
| 17 | GOM_TRA_1PNPDE20080828_011936_000000482071_00332_33953_0836.N1 | 28-AUG-2008 01:19:36 | Straylight | 48.000   | 18      | 24Alp PsA | 1.1660   | 9700.0    | 96      | 33953 | No          |
| 18 | GOM_TRA_1PNPDE20080828_012434_000000542071_00332_33953_0837.N1 | 28-AUG-2008 01:24:34 | Bright     | 54.000   | 142     | 49Del Cap | 2.8500   | 8900.0    | 108     | 33953 | No          |
| 19 | GOM_TRA_1PNPDE20080828_012745_000000382071_00332_33953_0838.N1 | 28-AUG-2008 01:27:45 | Bright     | 38.000   | 154     | 22Bet Aqr | 2.8990   | 5700.0    | 76      | 33953 | No          |
| 20 | GOM_TRA_1PNPDE20080828_012919_000000412071_00332_33953_0839.N1 | 28-AUG-2008 01:29:19 | Bright     | 40.500   | 162     | 34Alp Aqr | 2.9440   | 5350.0    | 81      | 33953 | No          |
| 21 | GOM_TRA_1PNPDE20080828_013220_000000402071_00332_33953_0840.N1 | 28-AUG-2008 01:32:20 | Bright     | 39.500   | 61      | 8Eps Peg  | 2.1000   | 3900.0    | 79      | 33953 | No          |
| 22 | GOM_TRA_1PNPDE20080828_013907_000000362071_00332_33953_0841.N1 | 28-AUG-2008 01:39:07 | Bright     | 36.000   | 92      | 53Eps Cyg | 2.5000   | 4500.0    | 72      | 33953 | No          |
| 23 | GOM_TRA_1PNPDE20080828_014056_000000342071_00332_33953_0842.N1 | 28-AUG-2008 01:40:56 | Bright     | 33.500   | 66      | 37Gam Cyg | 2.2080   | 5900.0    | 67      | 33953 | No          |
| 24 | GOM_TRA_1PNPDE20080828_014219_000000342071_00332_33953_0843.N1 | 28-AUG-2008 01:42:19 | Bright     | 34.000   | 19      | 50Alp Cyg | 1.2460   | 10500.    | 68      | 33953 | No          |
| 25 | GOM_TRA_1PNPDE20080828_014723_000000372071_00332_33953_0844.N1 | 28-AUG-2008 01:47:23 | Bright     | 36.500   | 89      | 5Alp Cep  | 2.4510   | 8000.0    | 73      | 33953 | No          |



|    |  |                      |            |        |     |           |          |        |     |       |     |
|----|--|----------------------|------------|--------|-----|-----------|----------|--------|-----|-------|-----|
| 26 | GOM_TRA_1PNPDE20080828_015457_000000342071_00332_33953_0845.N1 | 28-AUG-2008 01:54:57 | Bright     | 33.500 | 49  | 1Alp UMi  | 1.9900   | 6300.0 | 67  | 33953 | No  |
| 27 | GOM_TRA_1PNPDE20080828_193953_000000522071_00343_33964_1854.N1 | 28-AUG-2008 19:39:53 | Straylight | 52.000 | 84  | Alp Phe   | 2.3970   | 4500.0 | 104 | 33964 | Yes |
| 28 | GOM_TRA_1PNPDE20080828_194210_000000402071_00343_33964_1855.N1 | 28-AUG-2008 19:42:10 | Straylight | 39.500 | 31  | Alp Gru   | 1.7340   | 15200. | 79  | 33964 | No  |
| 29 | GOM_TRA_1PNPDE20080828_194614_000000492071_00343_33964_1856.N1 | 28-AUG-2008 19:46:14 | Straylight | 49.000 | 18  | 24Alp PsA | 1.1660   | 9700.0 | 98  | 33964 | No  |
| 30 | GOM_TRA_1PNPDE20080828_195110_000000422071_00343_33964_1857.N1 | 28-AUG-2008 19:51:10 | Bright     | 41.500 | 142 | 49Del Cap | 2.8500   | 8900.0 | 83  | 33964 | No  |
| 31 | GOM_TRA_1PNPDE20080828_195421_000000382071_00343_33964_1858.N1 | 28-AUG-2008 19:54:21 | Bright     | 38.000 | 154 | 22Bet Aqr | 2.8990   | 5700.0 | 76  | 33964 | No  |
| 32 | GOM_TRA_1PNPDE20080828_195554_000000412071_00343_33964_1859.N1 | 28-AUG-2008 19:55:54 | Bright     | 40.500 | 162 | 34Alp Aqr | 2.9440   | 5350.0 | 81  | 33964 | No  |
| 33 | GOM_TRA_1PNPDE20080828_195855_000000402071_00343_33964_1860.N1 | 28-AUG-2008 19:58:55 | Bright     | 39.500 | 61  | 8Eps Peg  | 2.1000   | 3900.0 | 79  | 33964 | No  |
| 34 | GOM_TRA_1PNPDE20080828_200543_000000382071_00343_33964_1861.N1 | 28-AUG-2008 20:05:43 | Bright     | 37.500 | 92  | 53Eps Cyg | 2.5000   | 4500.0 | 75  | 33964 | No  |
| 35 | GOM_TRA_1PNPDE20080828_200732_000000372071_00343_33964_1862.N1 | 28-AUG-2008 20:07:32 | Bright     | 37.000 | 66  | 37Gam Cyg | 2.2080   | 5900.0 | 74  | 33964 | No  |
| 36 | GOM_TRA_1PNPDE20080828_200854_000000382071_00343_33964_1863.N1 | 28-AUG-2008 20:08:54 | Bright     | 38.000 | 19  | 50Alp Cyg | 1.2460   | 10500. | 76  | 33964 | No  |
| 37 | GOM_TRA_1PNPDE20080828_201357_000000382071_00343_33964_1864.N1 | 28-AUG-2008 20:13:57 | Bright     | 37.500 | 89  | 5Alp Cep  | 2.4510   | 8000.0 | 75  | 33964 | No  |
| 38 | GOM_TRA_1PNPDE20080828_202132_000000372071_00343_33964_1865.N1 | 28-AUG-2008 20:21:32 | Bright     | 37.000 | 49  | 1Alp UMi  | 1.9900   | 6300.0 | 74  | 33964 | No  |
| 39 | GOM_TRA_1PNPDE20080828_203823_000000382071_00343_33964_1866.N1 | 28-AUG-2008 20:38:23 | Bright     | 37.500 | 24  | 66Alp Gem | 1.5800   | 10200. | 75  | 33964 | No  |
| 40 | GOM_TRA_1PNPDE20080828_204059_000000482071_00343_33964_1867.N1 | 28-AUG-2008 20:40:59 | Bright     | 47.500 | 170 | 27Eps Gem | 3.0000   | 9700.0 | 95  | 33964 | No  |
| 41 | GOM_TRA_1PNPDE20080828_204353_000000492071_00343_33964_1868.N1 | 28-AUG-2008 20:43:53 | Twilight   | 48.500 | 44  | 24Gam Gem | 1.9280   | 11000. | 97  | 33964 | No  |
| 42 | GOM_TRA_1PNPDE20080828_204559_000000442071_00343_33964_2010.N1 | 28-AUG-2008 20:45:59 | Twilight   | 44.000 | 8   | 10Alp CMi | 0.40000  | 6500.0 | 88  | 33964 | Yes |
| 43 | GOM_TRA_1PNPDE20080828_205326_000000472071_00343_33964_2011.N1 | 28-AUG-2008 20:53:26 | Dark       | 47.000 | 1   | 9Alp CMa  | -1.4400  | 11000. | 94  | 33964 | No  |
| 44 | GOM_TRA_1PNPDE20080828_205448_000000392071_00343_33964_2012.N1 | 28-AUG-2008 20:54:48 | Dark       | 38.500 | 179 | 24Omi2CMa | 3.0320   | 24000. | 77  | 33964 | No  |
| 45 | GOM_TRA_1PNPDE20080828_205616_000000442071_00343_33964_2013.N1 | 28-AUG-2008 20:56:16 | Dark       | 43.500 | 23  | 21Eps CMa | 1.5020   | 26000. | 87  | 33964 | No  |
| 46 | GOM_TRA_1PNPDE20080828_205756_000000422071_00343_33964_2014.N1 | 28-AUG-2008 20:57:56 | Dark       | 42.000 | 117 | Pi Pup    | 2.7060   | 3800.0 | 84  | 33964 | No  |
| 47 | GOM_TRA_1PNPDE20080828_210303_000000462071_00343_33964_2015.N1 | 28-AUG-2008 21:03:03 | Dark       | 46.000 | 2   | Alp Car   | -0.73600 | 7000.0 | 92  | 33964 | No  |
| 48 | GOM_TRA_1PNPDE20080828_211431_000000472071_00344_33965_2016.N1 | 28-AUG-2008 21:14:31 | Dark       | 47.000 | 9   | Alp Eri   | 0.45300  | 24000. | 94  | 33965 | No  |

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



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

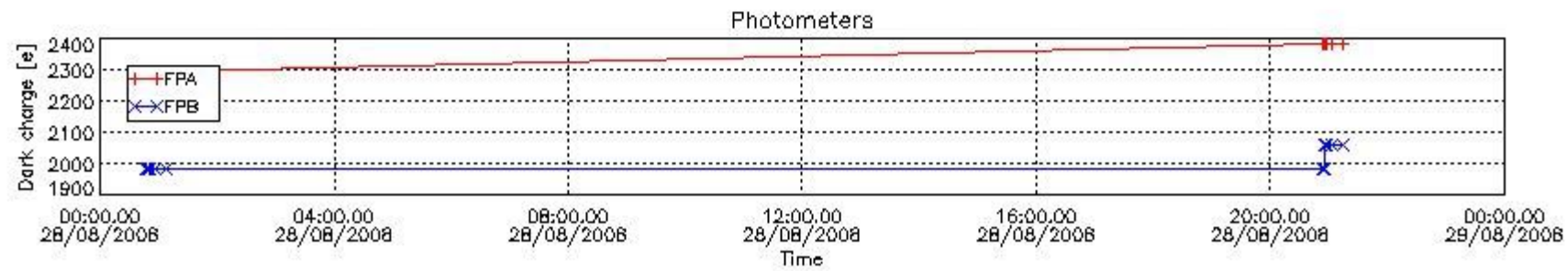
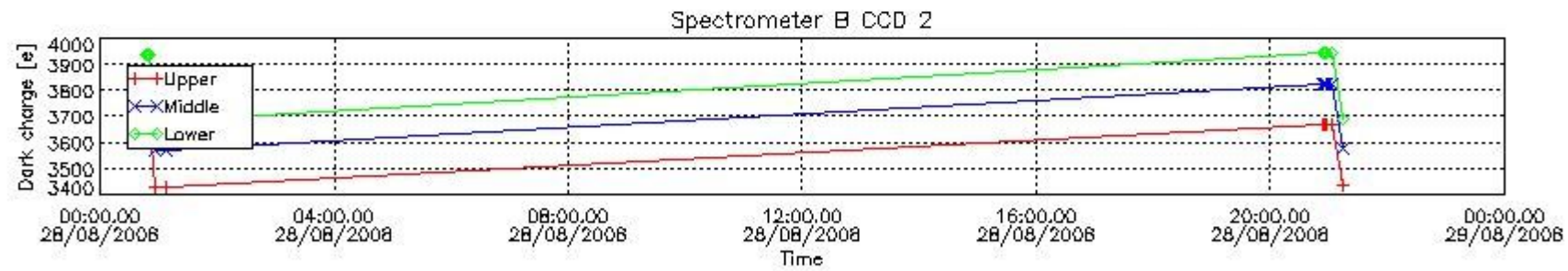
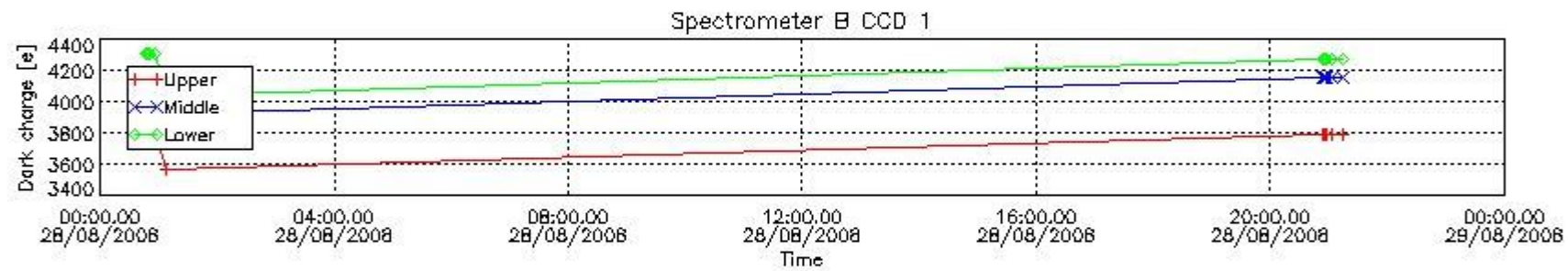
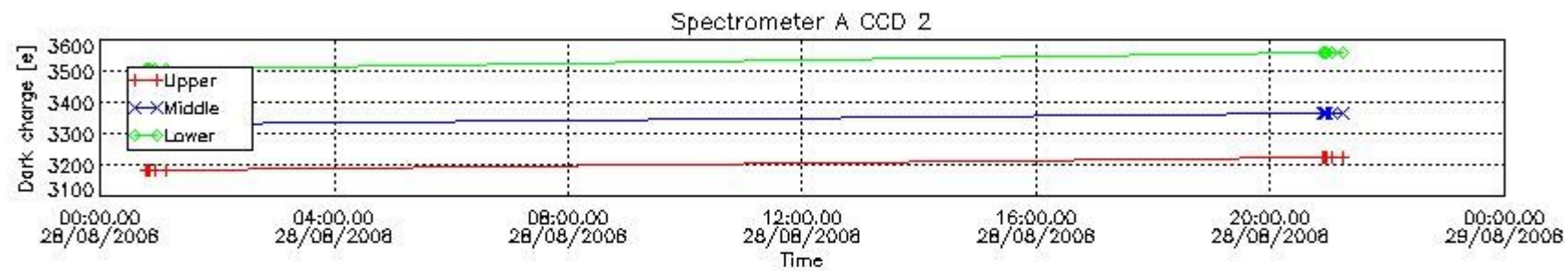
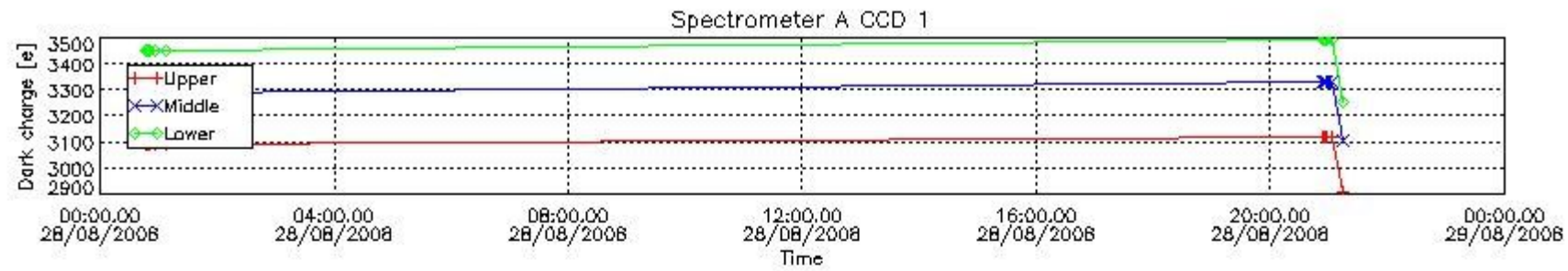
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20080828_193953_000000522071_00343_33964_1854.N1 | DC map with no T dep. |
| GOM_TRA_1PNPDE20080828_194210_000000402071_00343_33964_1855.N1 | DC map used           |
| GOM_TRA_1PNPDE20080828_194614_000000492071_00343_33964_1856.N1 | DC map used           |
| GOM_TRA_1PNPDE20080828_195110_000000422071_00343_33964_1857.N1 | DC map used           |
| GOM_TRA_1PNPDE20080828_195421_000000382071_00343_33964_1858.N1 | DC map used           |
| GOM_TRA_1PNPDE20080828_195554_000000412071_00343_33964_1859.N1 | DC map used           |
| GOM_TRA_1PNPDE20080828_195855_000000402071_00343_33964_1860.N1 | DC map used           |
| GOM_TRA_1PNPDE20080828_200543_000000382071_00343_33964_1861.N1 | DC map used           |
| GOM_TRA_1PNPDE20080828_200732_000000372071_00343_33964_1862.N1 | DC map used           |
| GOM_TRA_1PNPDE20080828_200854_000000382071_00343_33964_1863.N1 | DC map used           |
| GOM_TRA_1PNPDE20080828_201357_000000382071_00343_33964_1864.N1 | DC map used           |
| GOM_TRA_1PNPDE20080828_202132_000000372071_00343_33964_1865.N1 | DC map used           |
| GOM_TRA_1PNPDE20080828_203823_000000382071_00343_33964_1866.N1 | DC map used           |
| GOM_TRA_1PNPDE20080828_204059_000000482071_00343_33964_1867.N1 | DC map used           |
| GOM_TRA_1PNPDE20080828_204353_000000492071_00343_33964_1868.N1 | DC map used           |

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



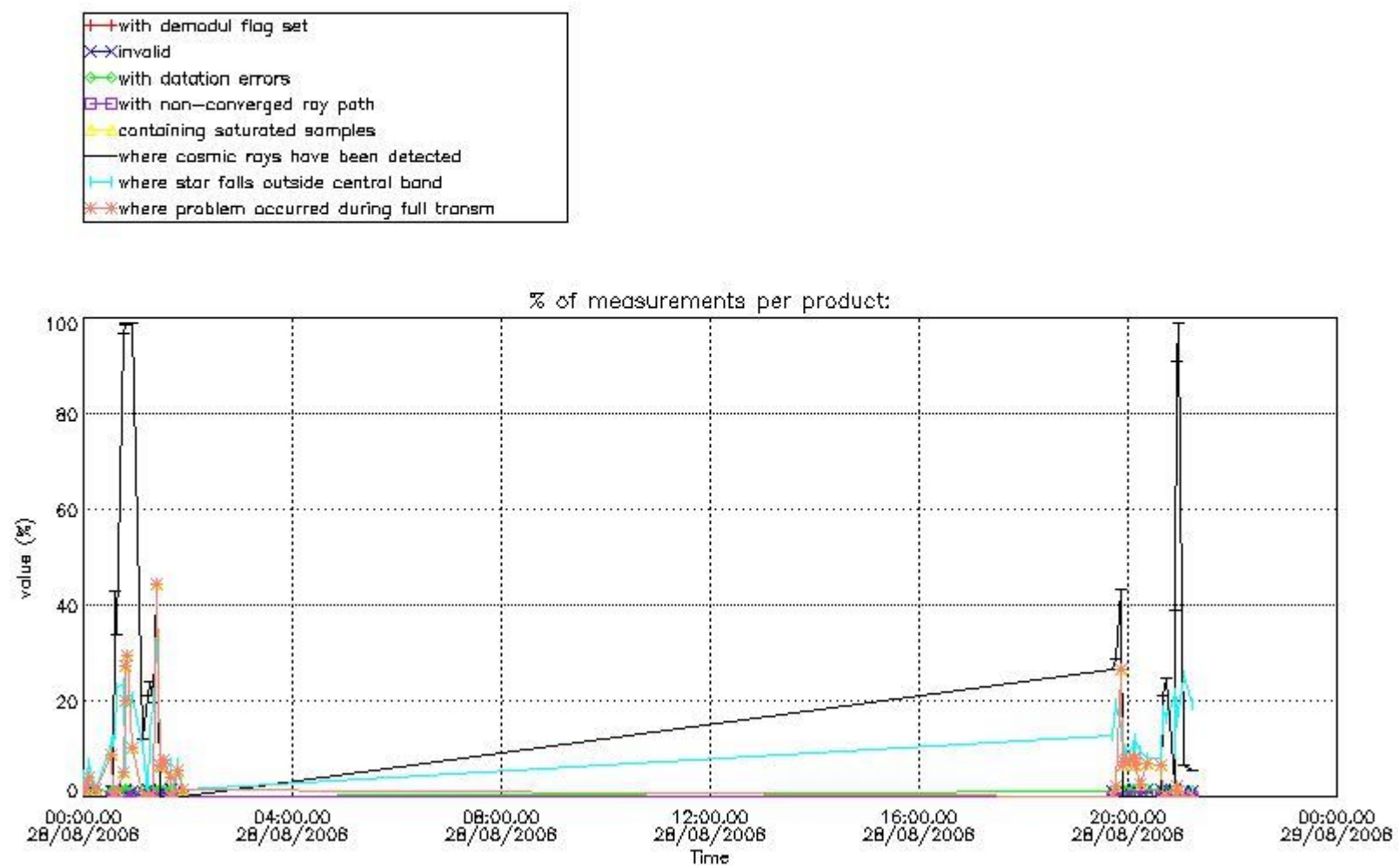
## 5. Demodulation flag and quality information monitoring

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:

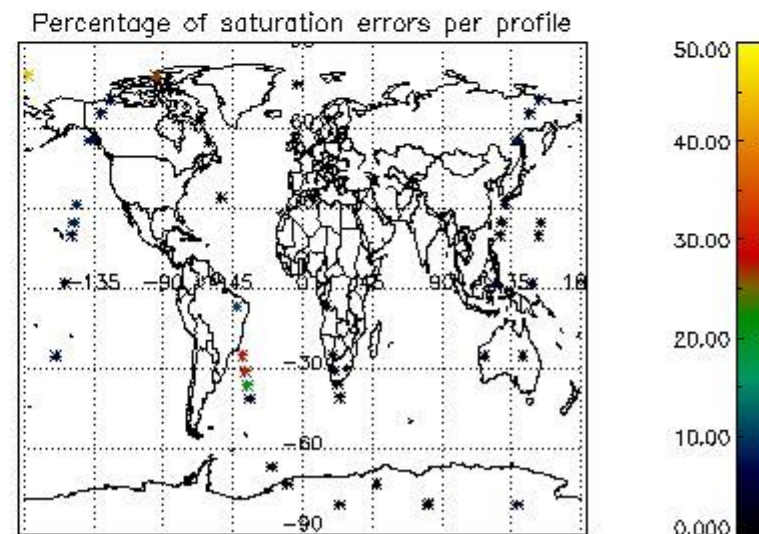
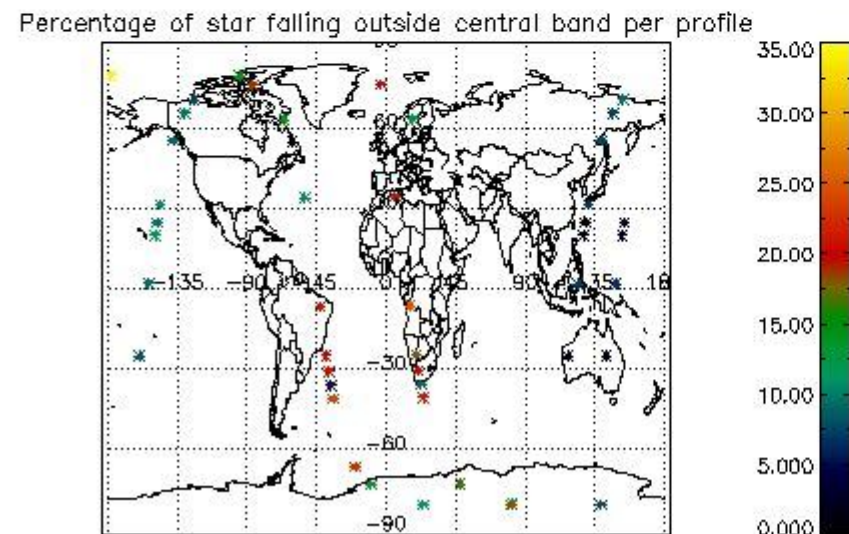
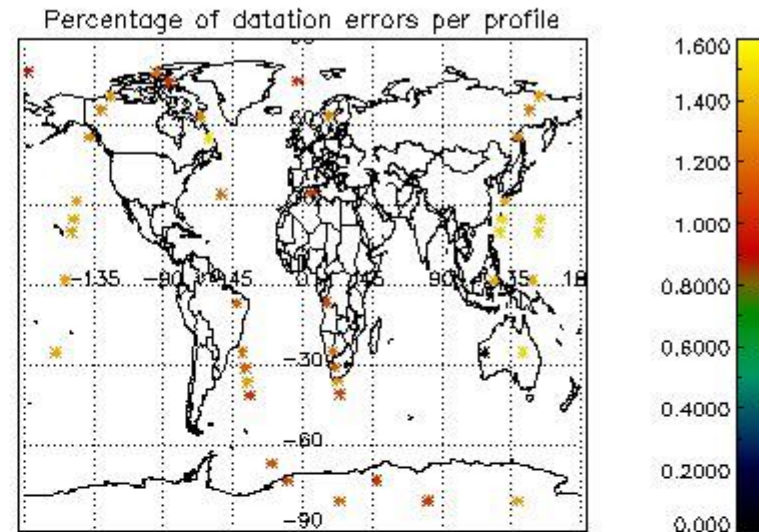
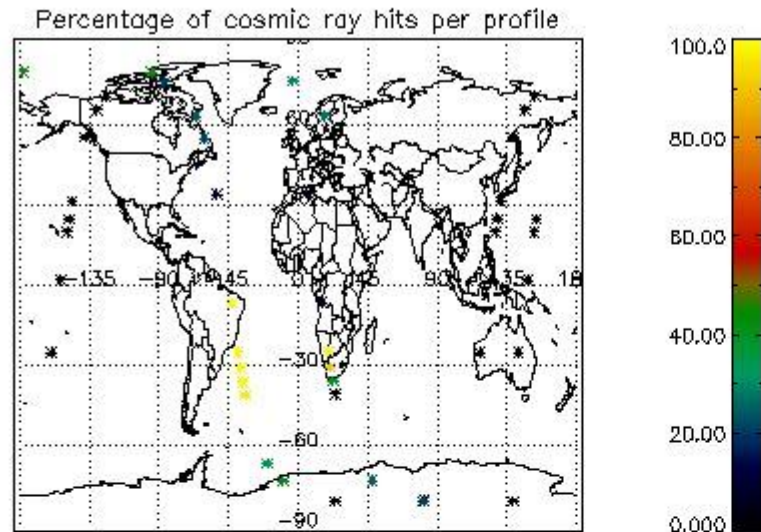
|   |           |
|---|-----------|
| At least one measurement with demodulation flag set:  | 30.4348 % |
| Reference spectrum computed from DB:                  | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used:                                   | 0.00000 % |

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



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





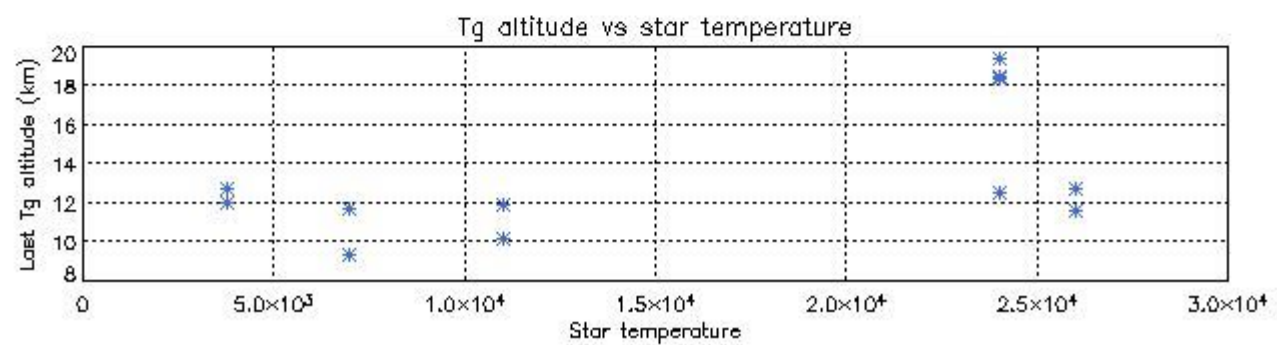
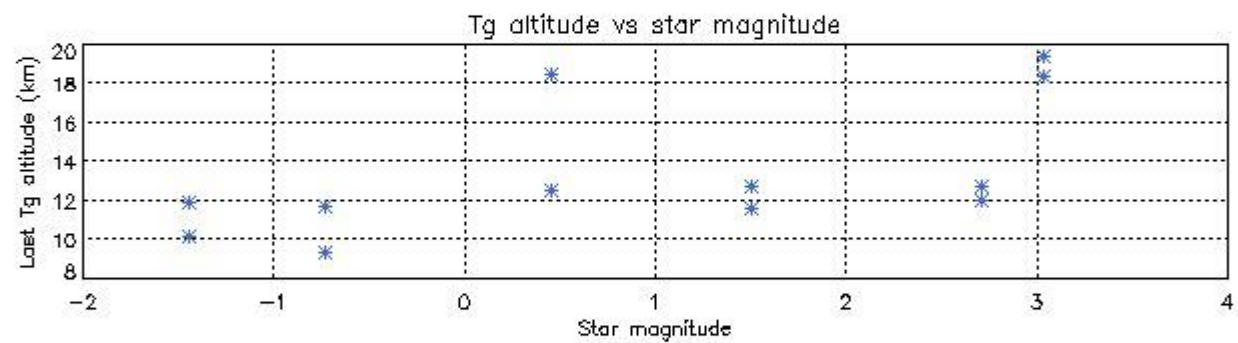
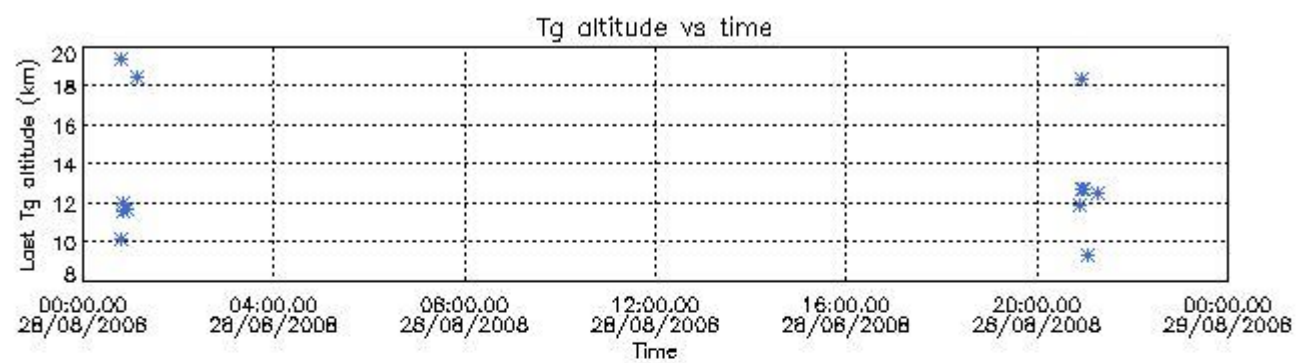
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

| Statistics      | DARK   | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean:           | 13.399 | 19.063 | 10.226   |
| St. deviation:  | 3.3737 | 4.4933 | 0.0000   |
| Maximum:        | 19.374 | 26.102 | 10.226   |
| Minimum:        | 9.2872 | 4.3171 | 10.226   |
| Number of data: | 12.000 | 26.000 | 1.0000   |

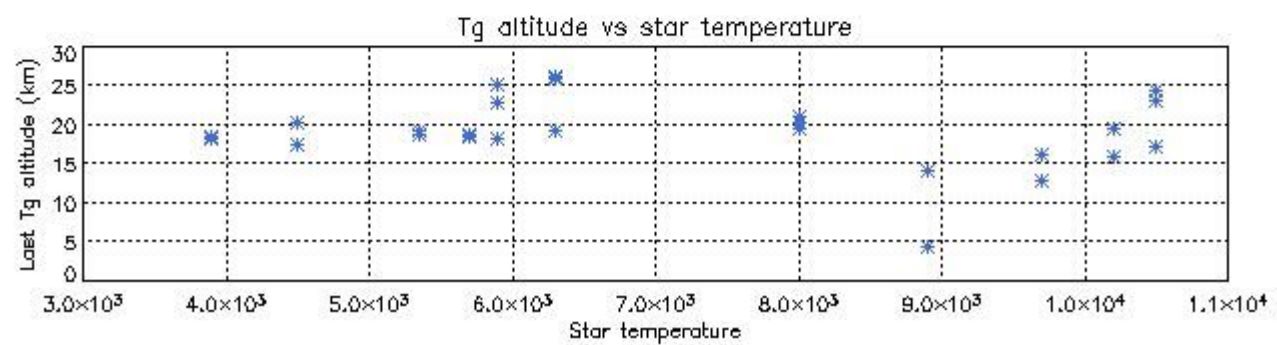
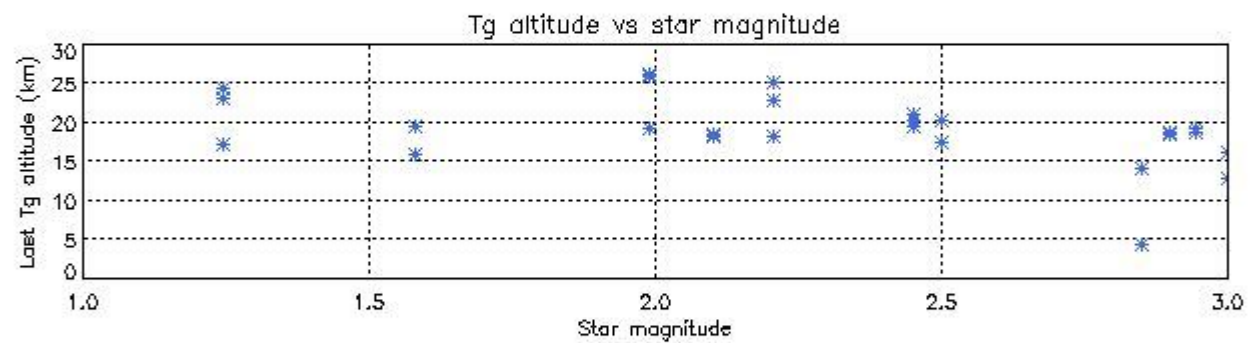
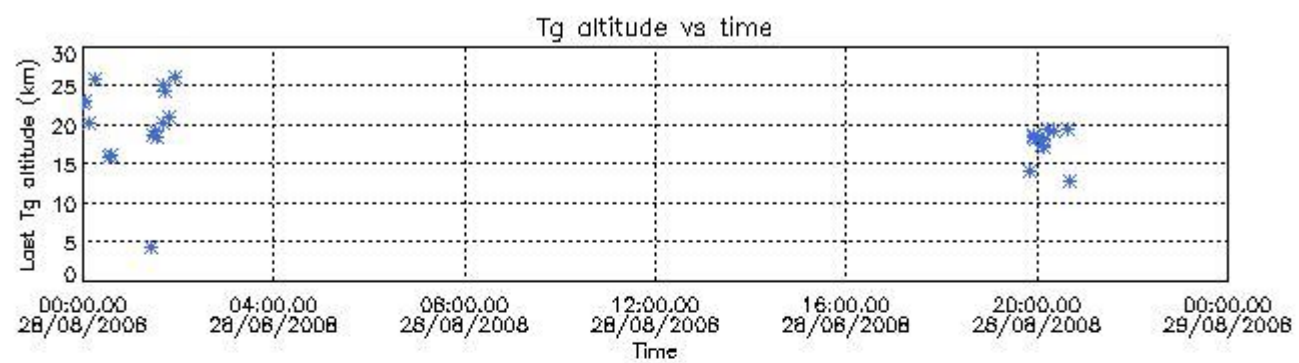
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



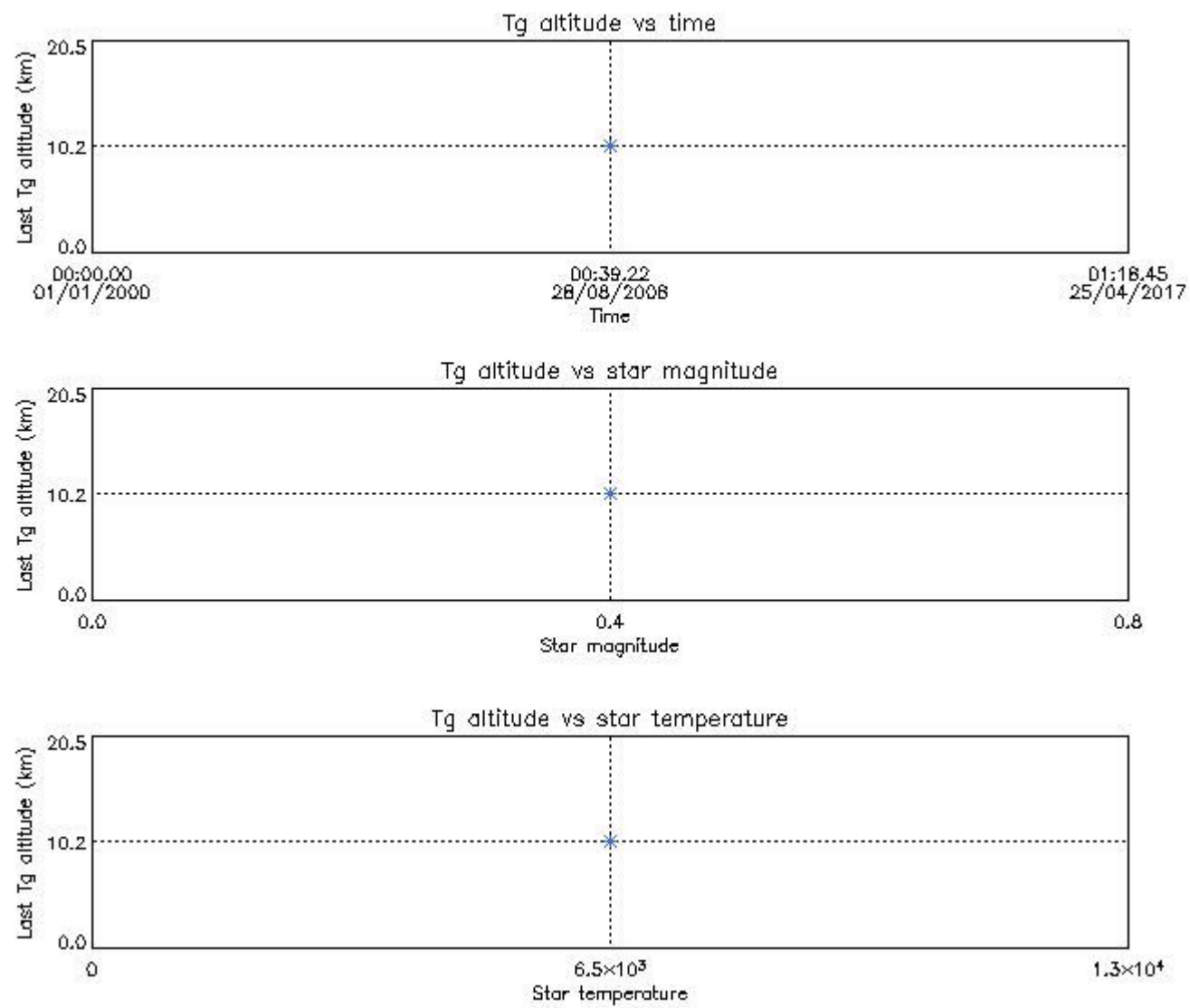
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



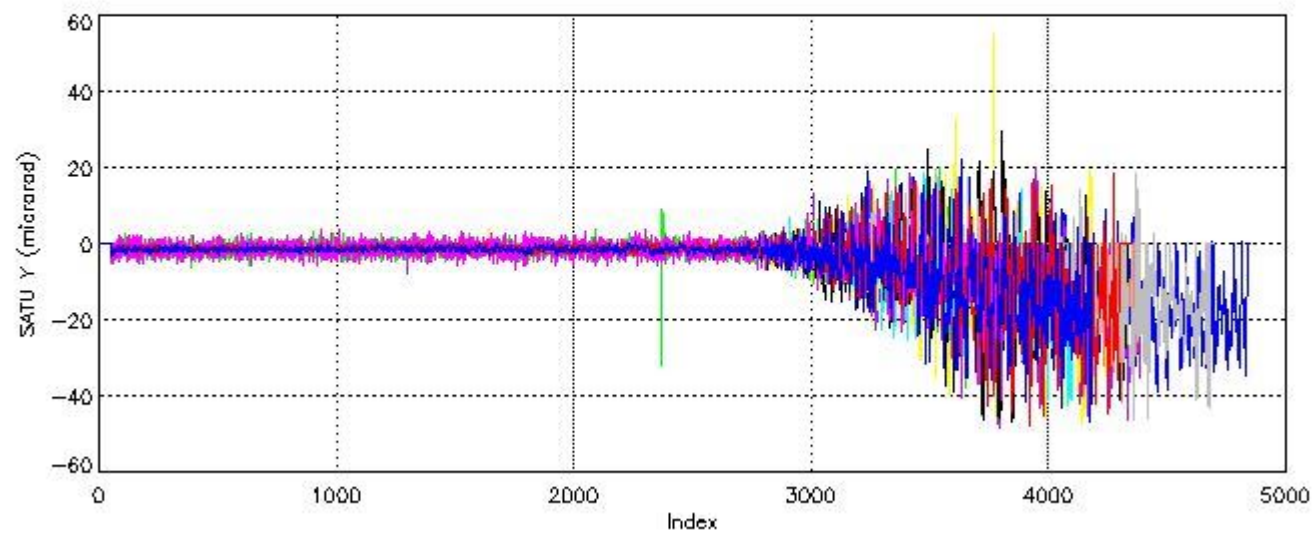
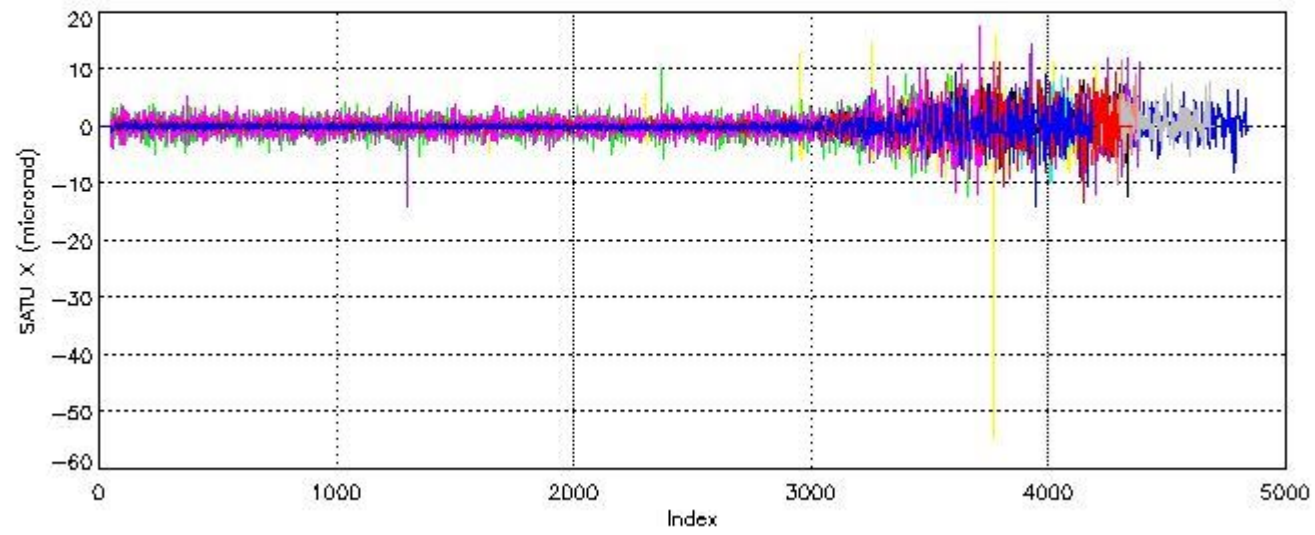
## 7. Star Acquisition and Tracking Unit (SATU)

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:          | 0.044869   | -1.3724    | 0.12512    | -1.3348    |
| St. deviation: | 0.42395    | 0.64667    | 0.60728    | 0.71986    |
| Maximum:       | 5.3000     | 2.8000     | 3.6000     | 1.8000     |
| Minimum:       | -4.8000    | -6.4000    | -3.3000    | -4.7000    |

|                 |        |        |        |        |
|-----------------|--------|--------|--------|--------|
| Number of data: | 10750. | 10750. | 21850. | 21850. |
|-----------------|--------|--------|--------|--------|

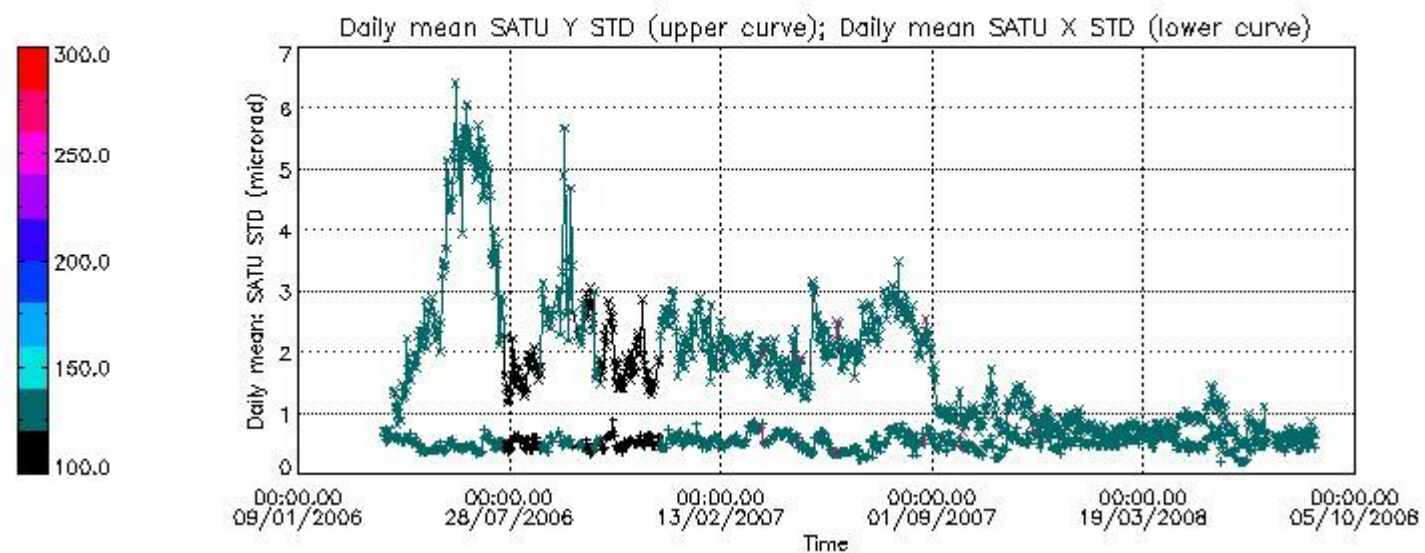
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

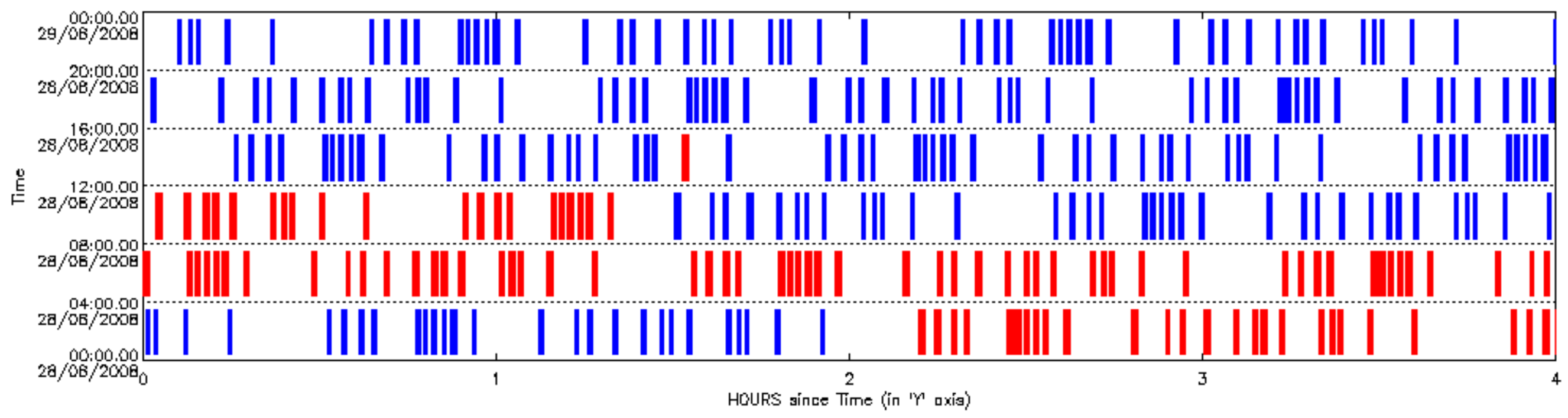
Lower curve: STD of SATU X axis

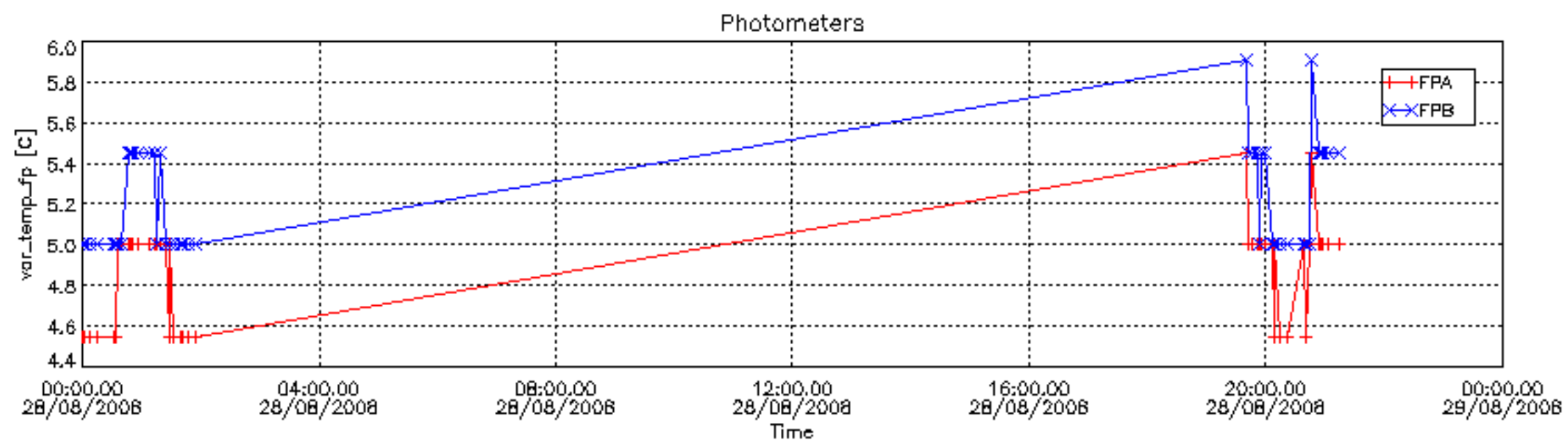
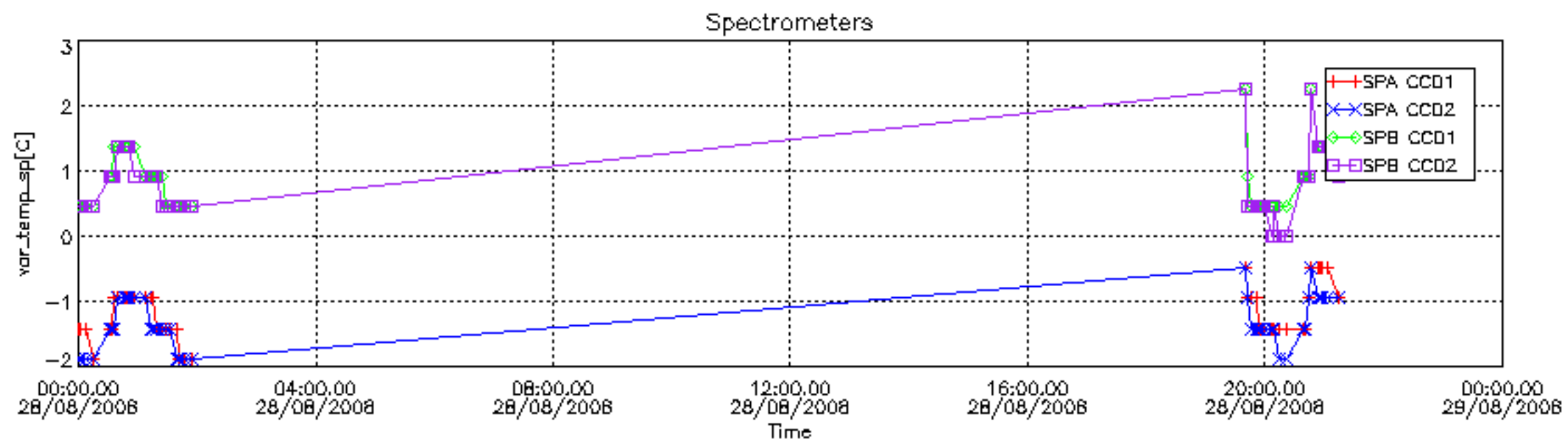


### 8. Auxiliary Data Files used for the production reported in section 2.4

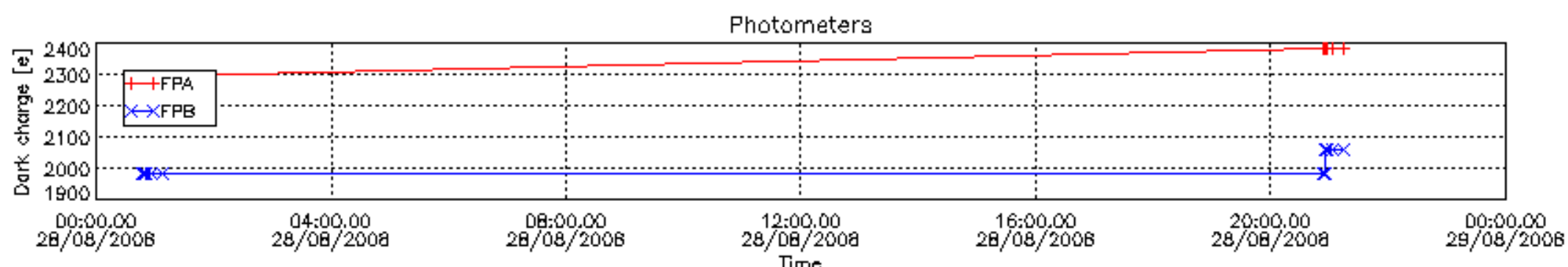
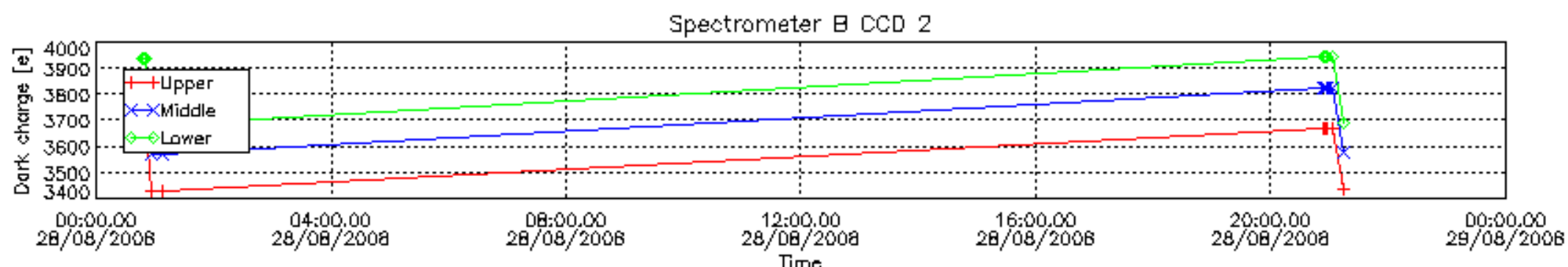
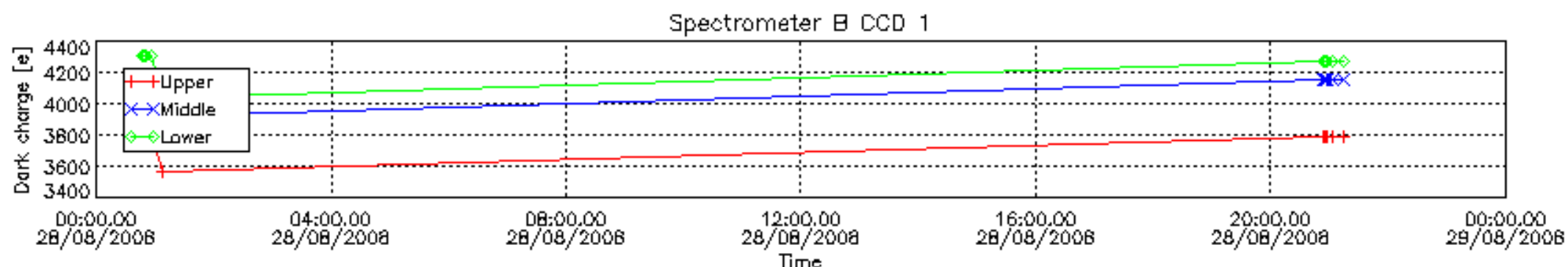
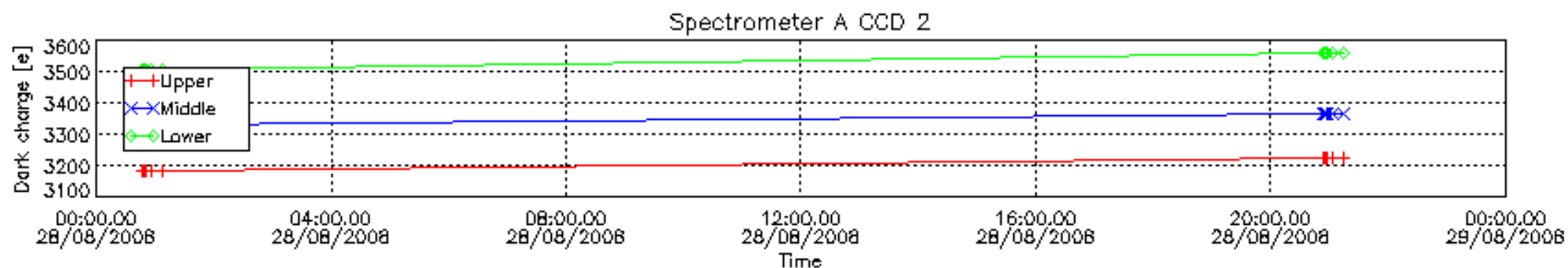
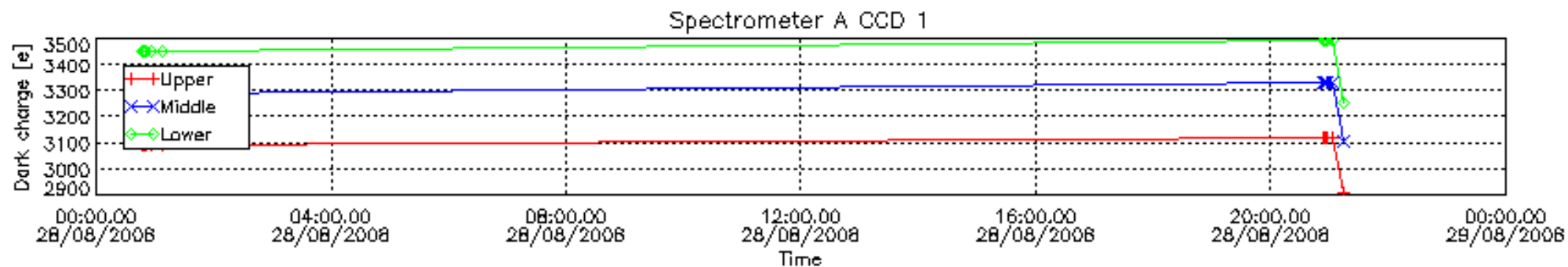
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

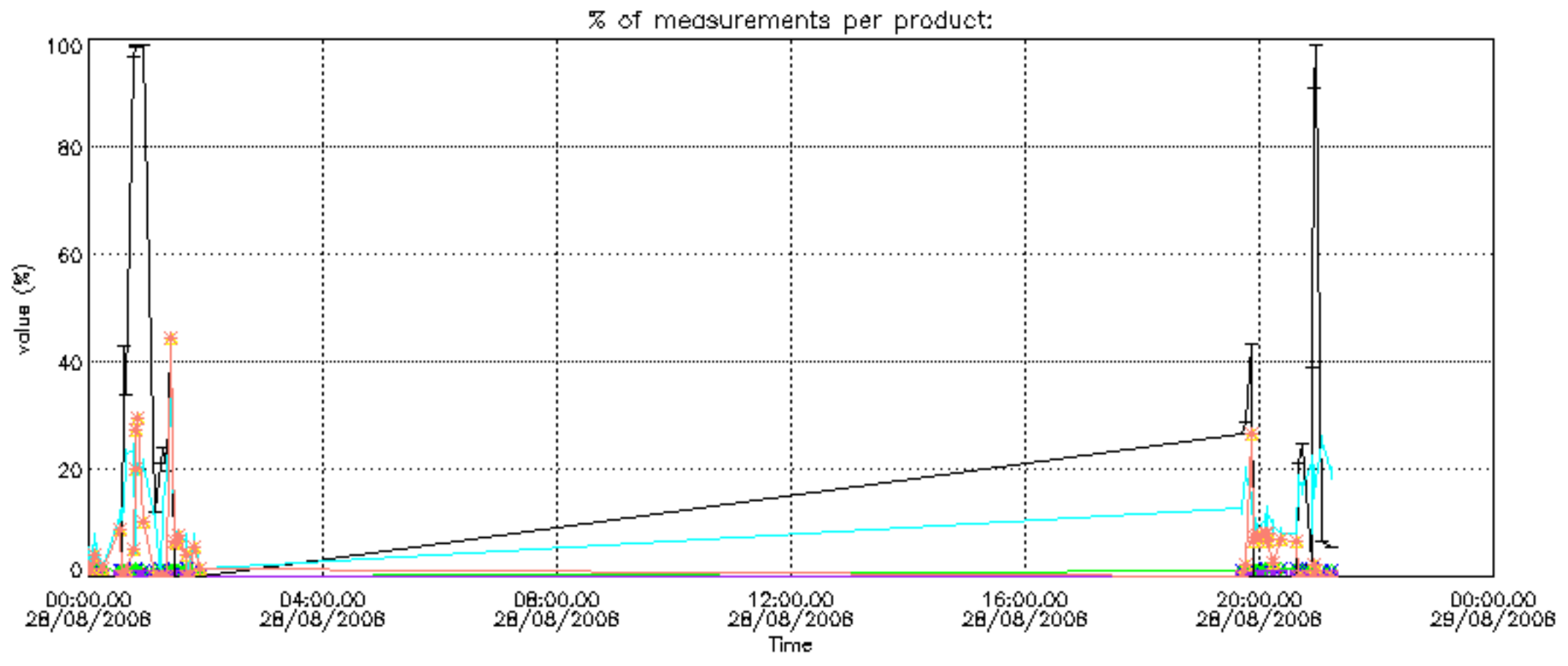
| Type                      | Auxiliary Filename   | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000  | 1                  | 28-AUG-2008 00:00:20    |
| CALIBRATION_DATABASE      | GOM_CAL_AXVIEC20080827_075127_20080825_000000_20100101_000000  | 1                  | 28-AUG-2008 00:00:20    |
| LEVEL-1B_PROC_CONFIG      | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000  | 1                  | 28-AUG-2008 00:00:20    |
| STAR_CATALOGUE            | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000  | 1                  | 28-AUG-2008 00:00:20    |
| STELLAR_SPECTRA_DATABANK  | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000  | 1                  | 28-AUG-2008 00:00:20    |
| ECMWF_FILE                | AUX_ECF_AXNECM20080827_072111_20080827_210000_20080828_090000  | 1                  | 28-AUG-2008 00:00:20    |
| ECMWF_FILE                | AUX_ECF_AXNECM20080828_072112_20080828_150000_20080829_030000  | 27                 | 28-AUG-2008 19:39:53    |
| OPTIONAL_ECMWF_FILE       | MISSING  | 1                  | 28-AUG-2008 00:00:20    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20080827_211959_000057382071_00329_33950_6242.N1 | 1                  | 28-AUG-2008 00:00:20    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20080827_230056_000057382071_00330_33951_6243.N1 | 9                  | 28-AUG-2008 00:46:09    |
| ORBIT_DATA_FILE           | AUX_FPO_AXVPDS20080828_130112_20080828_092041_20080906_230242  | 27                 | 28-AUG-2008 19:39:53    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20080828_193854_000035072071_00343_33964_6248.N1 | 42                 | 28-AUG-2008 20:45:59    |



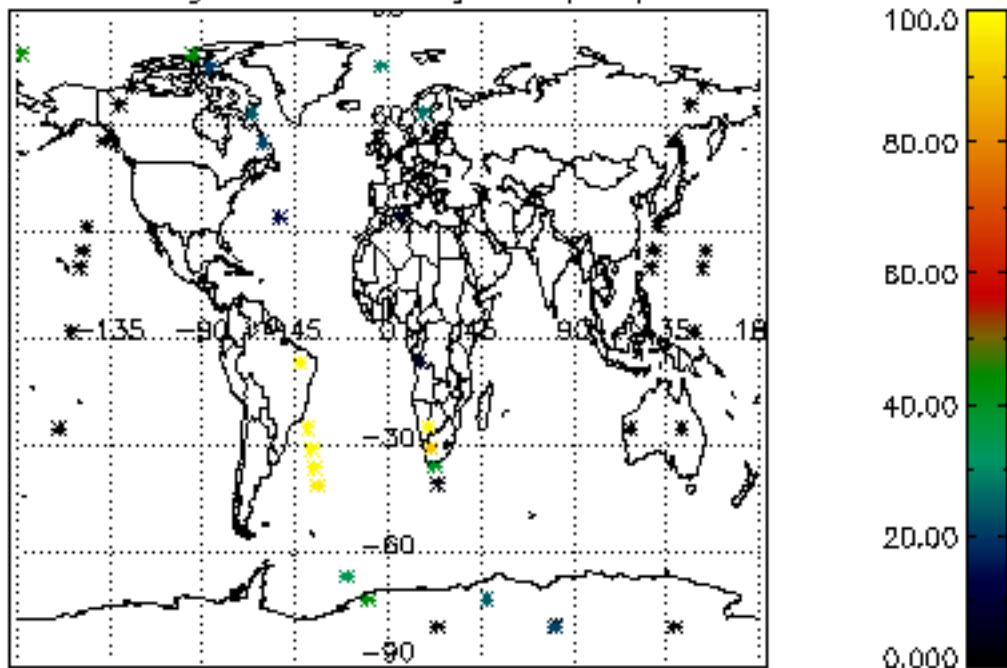




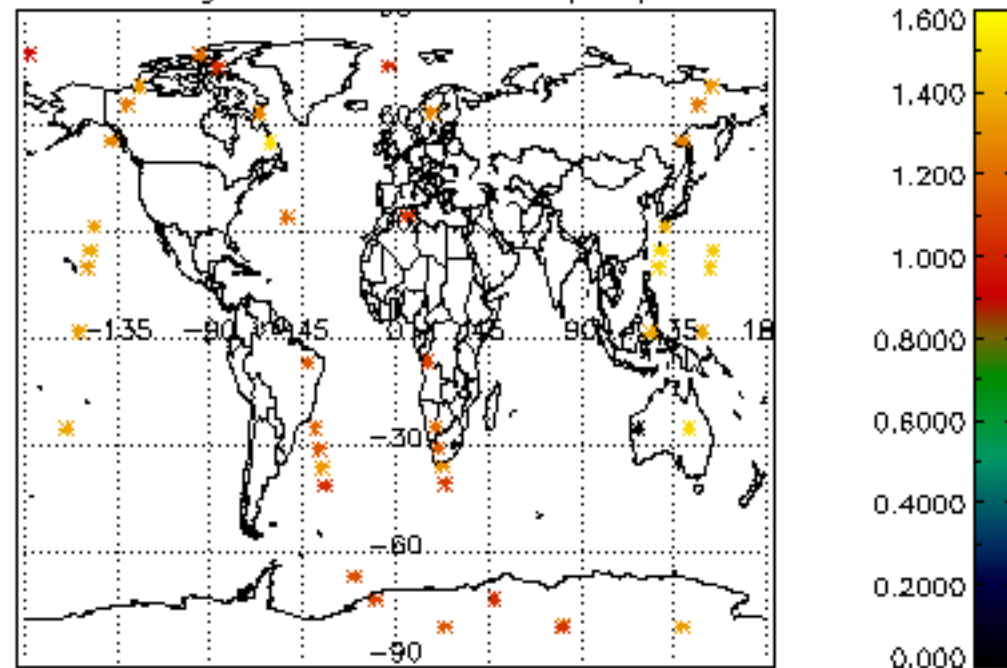




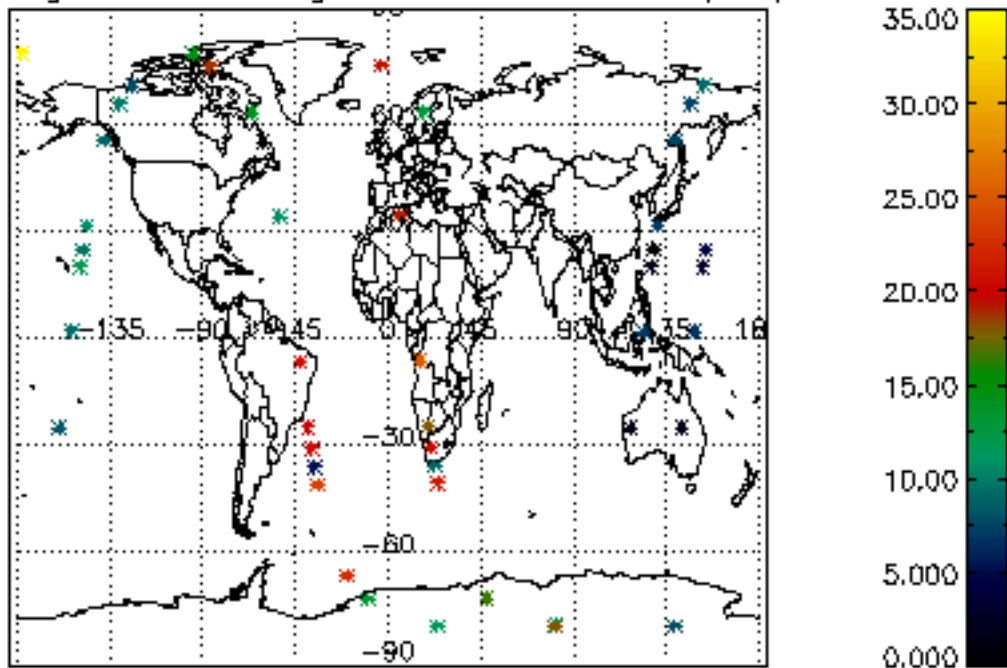
Percentage of cosmic ray hits per profile



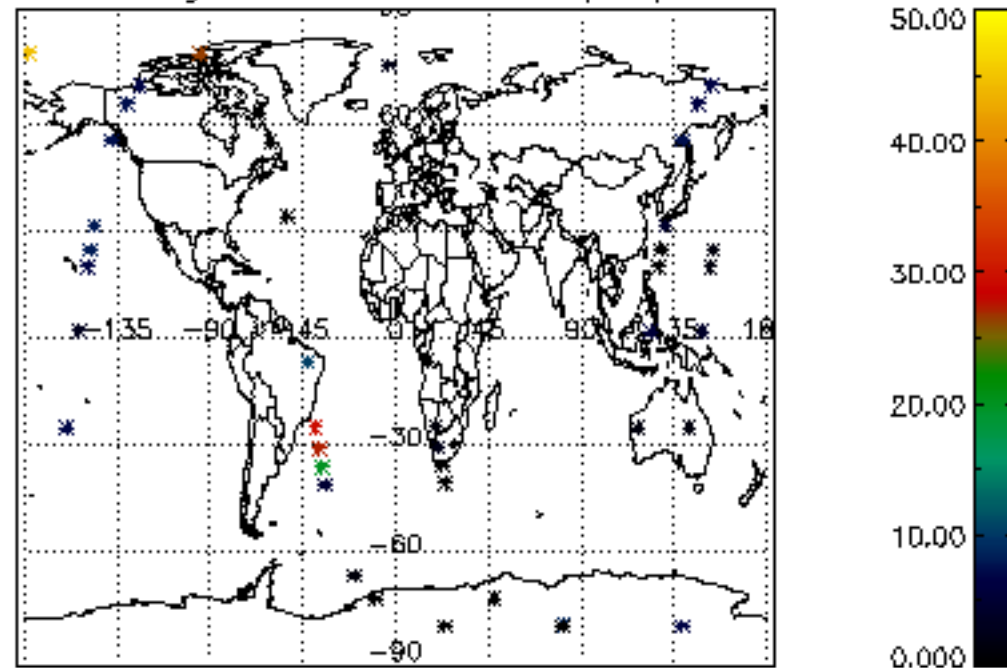
Percentage of datation errors per profile



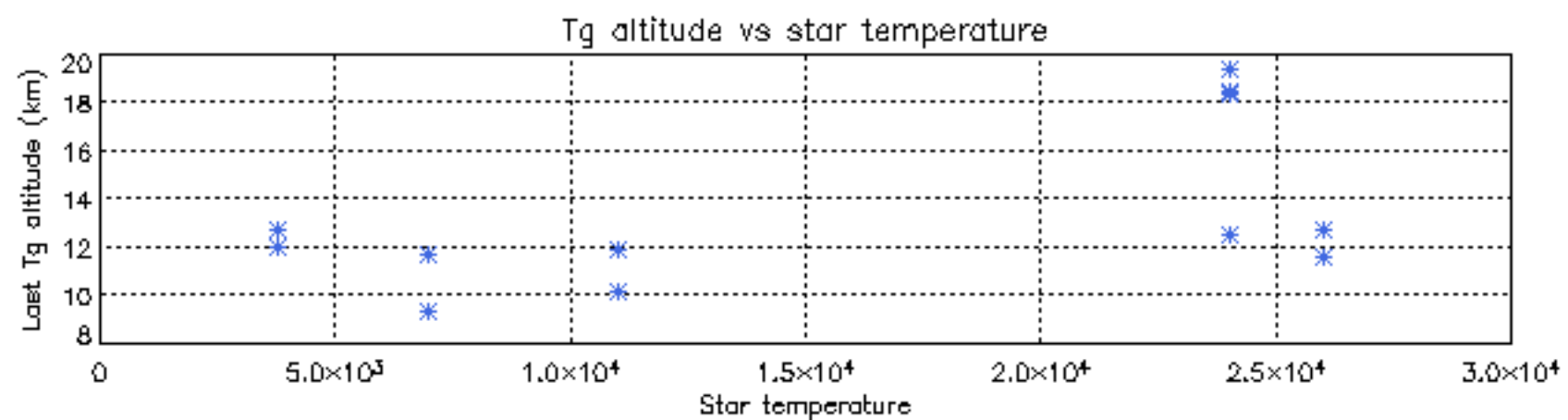
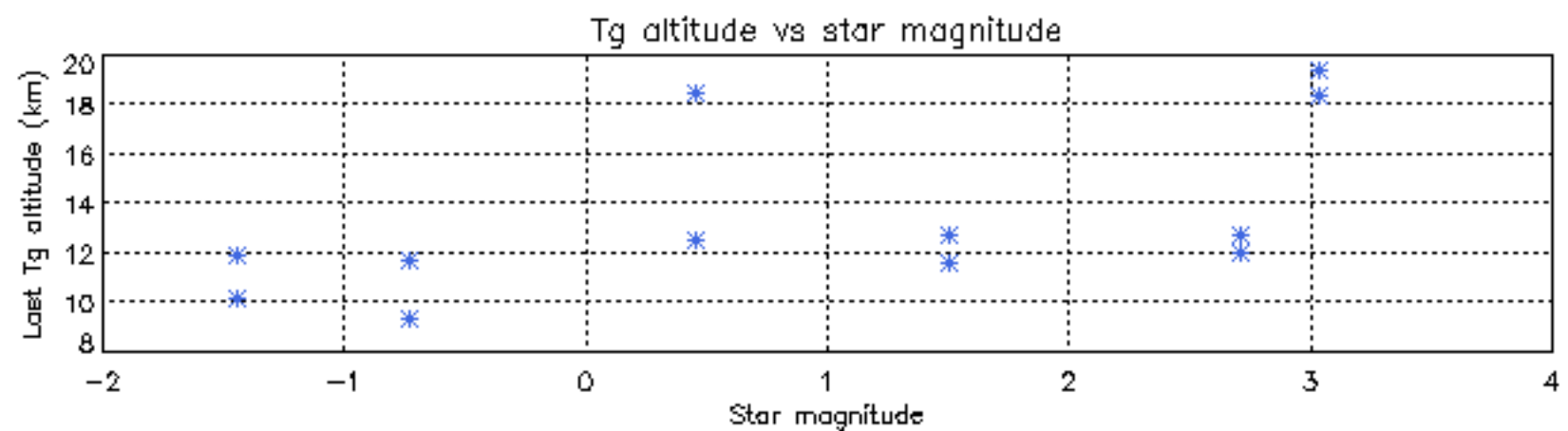
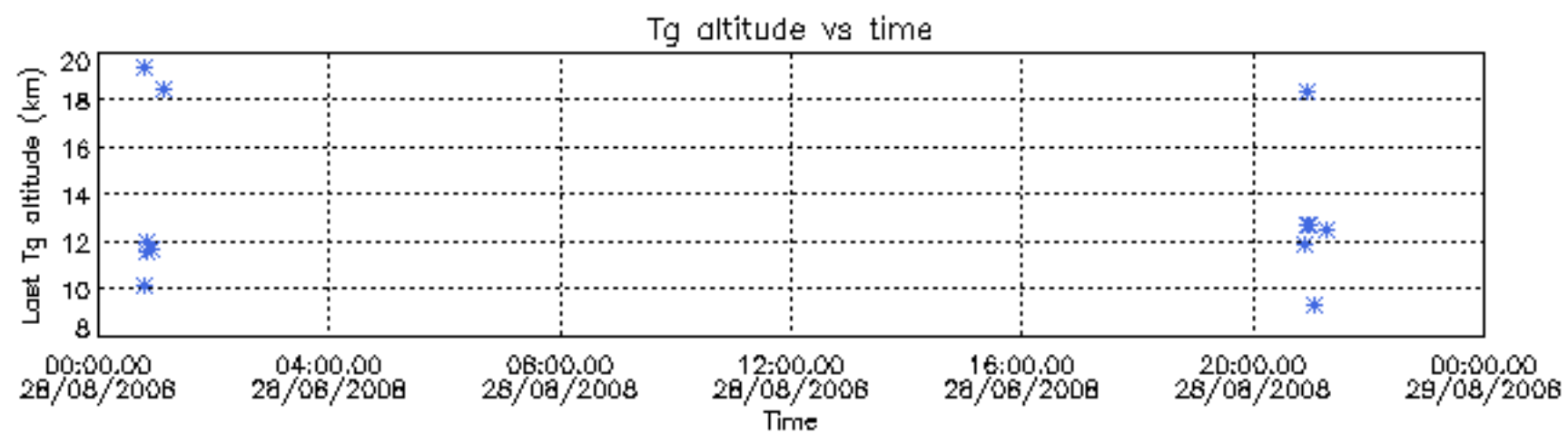
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

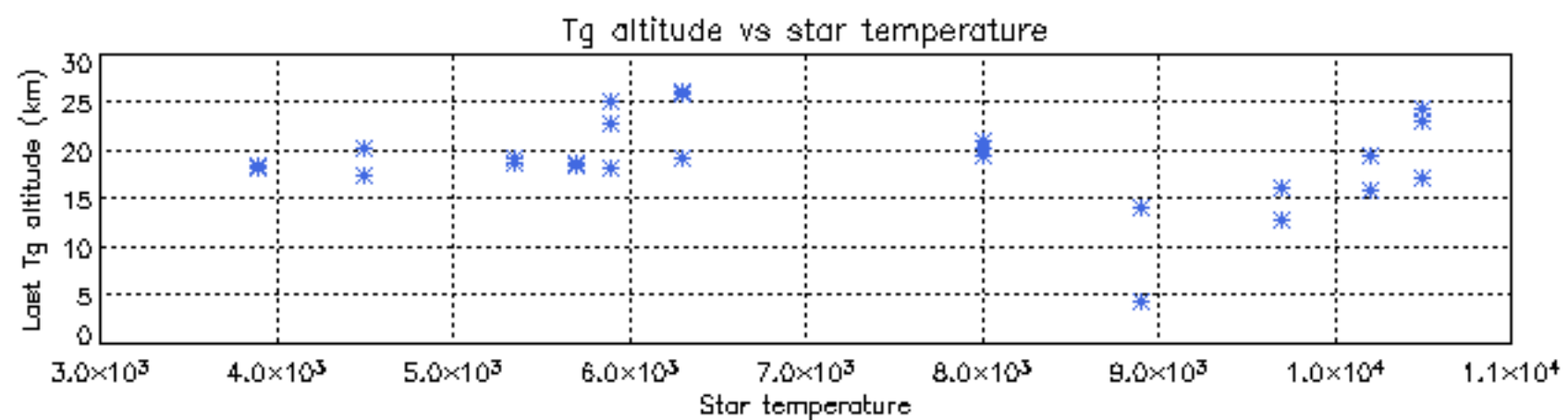
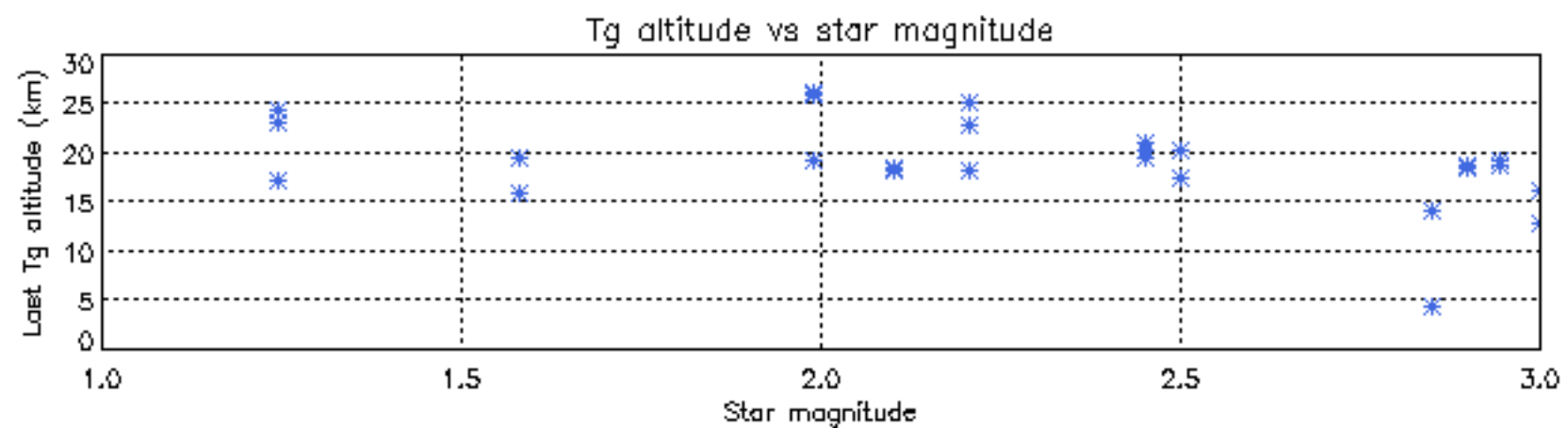
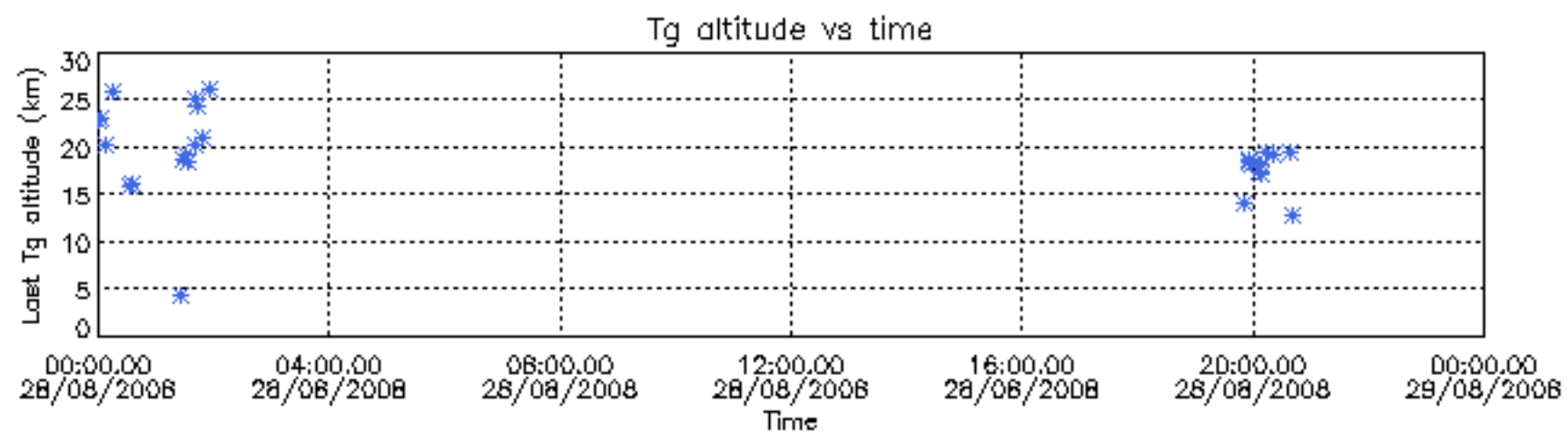


Tangent altitude at which the star is lost

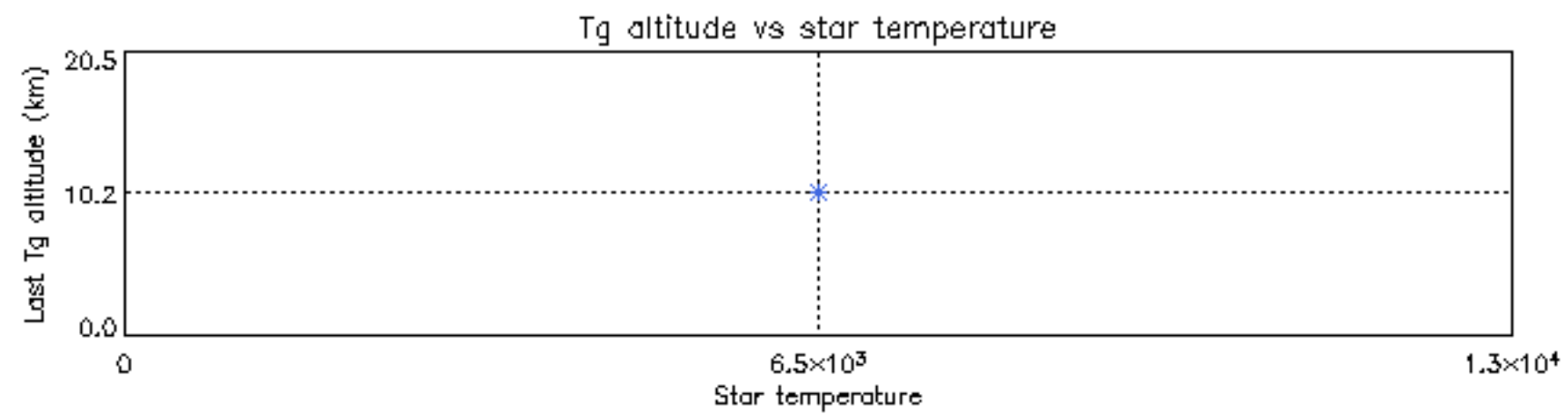
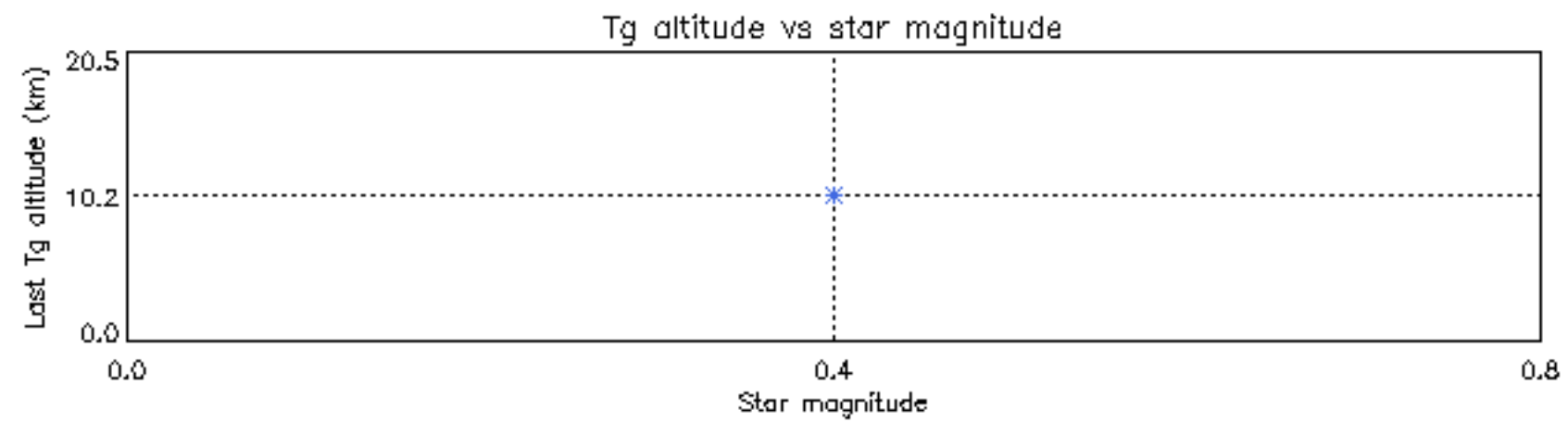
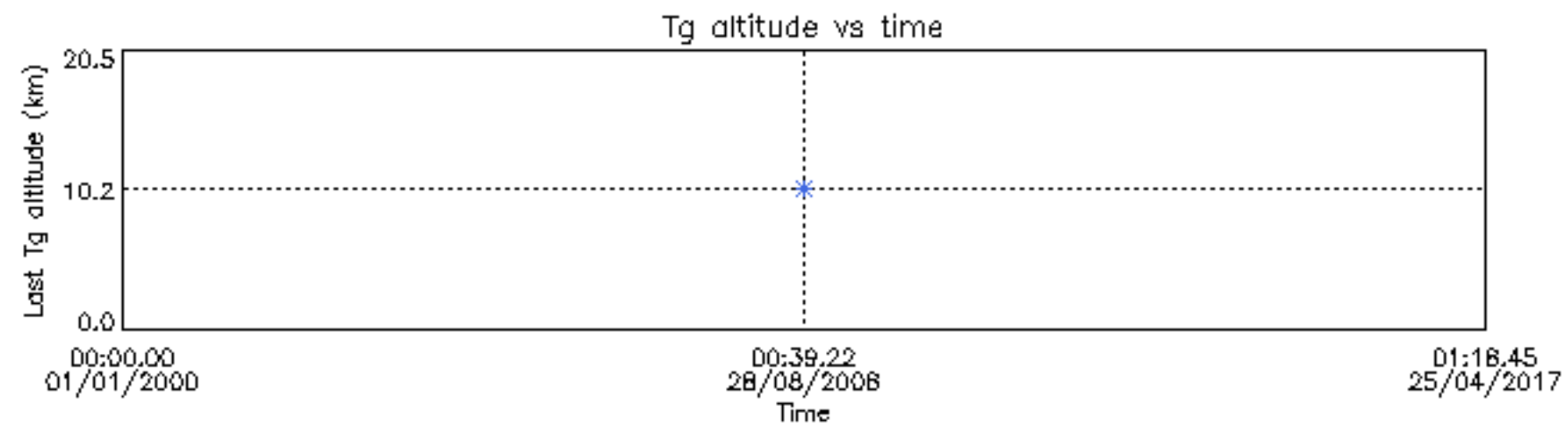


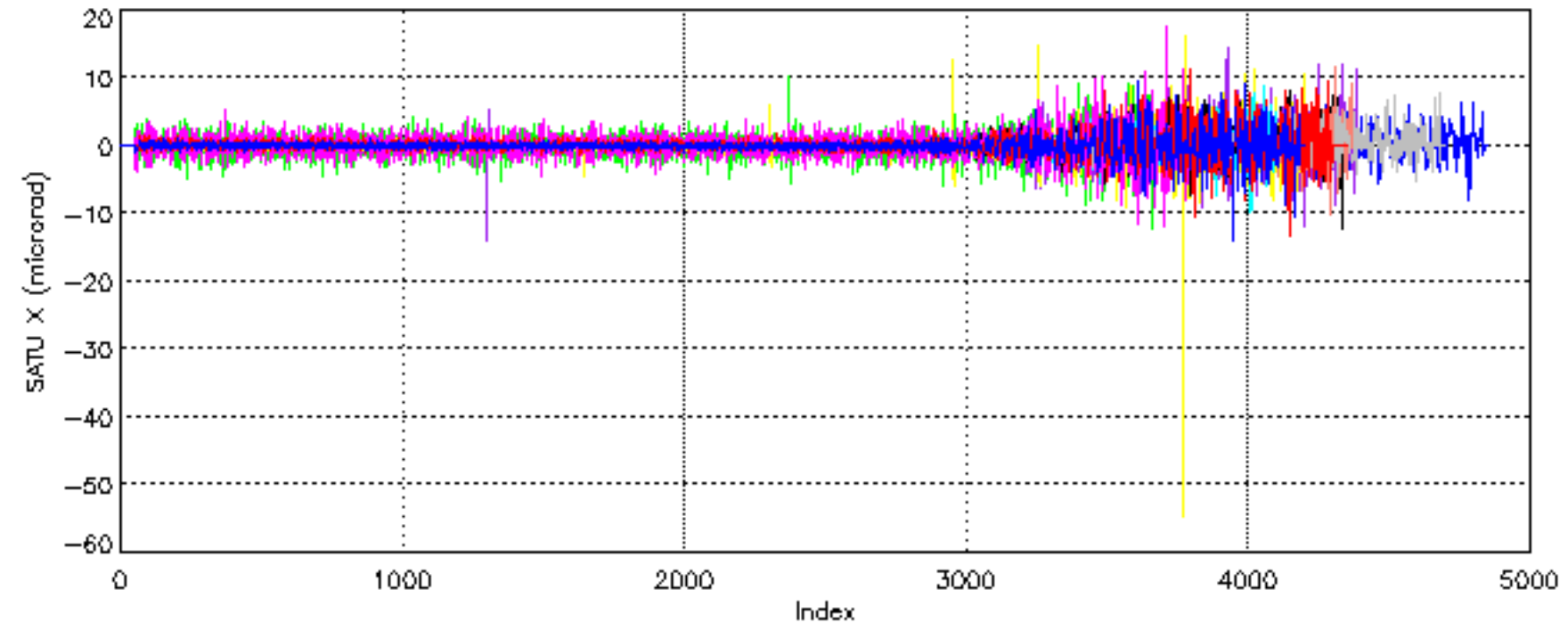


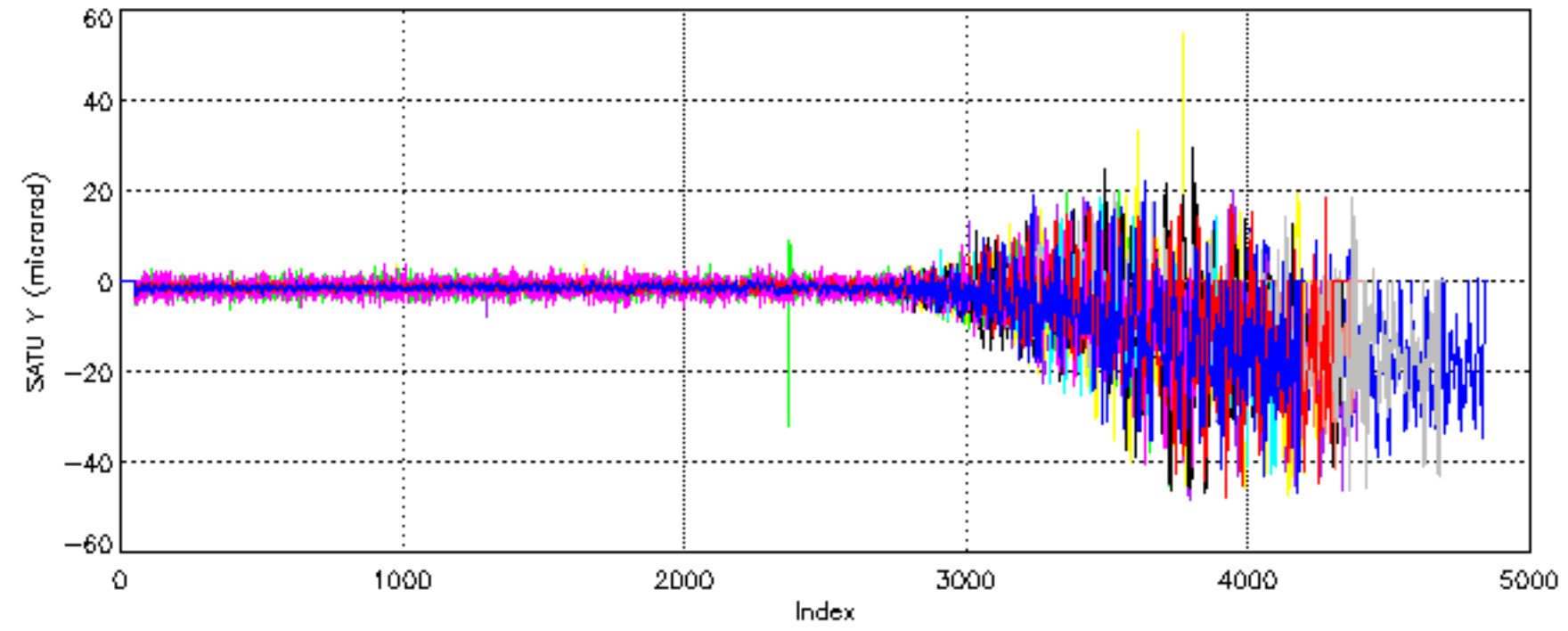
Tangent altitude at which the star is lost



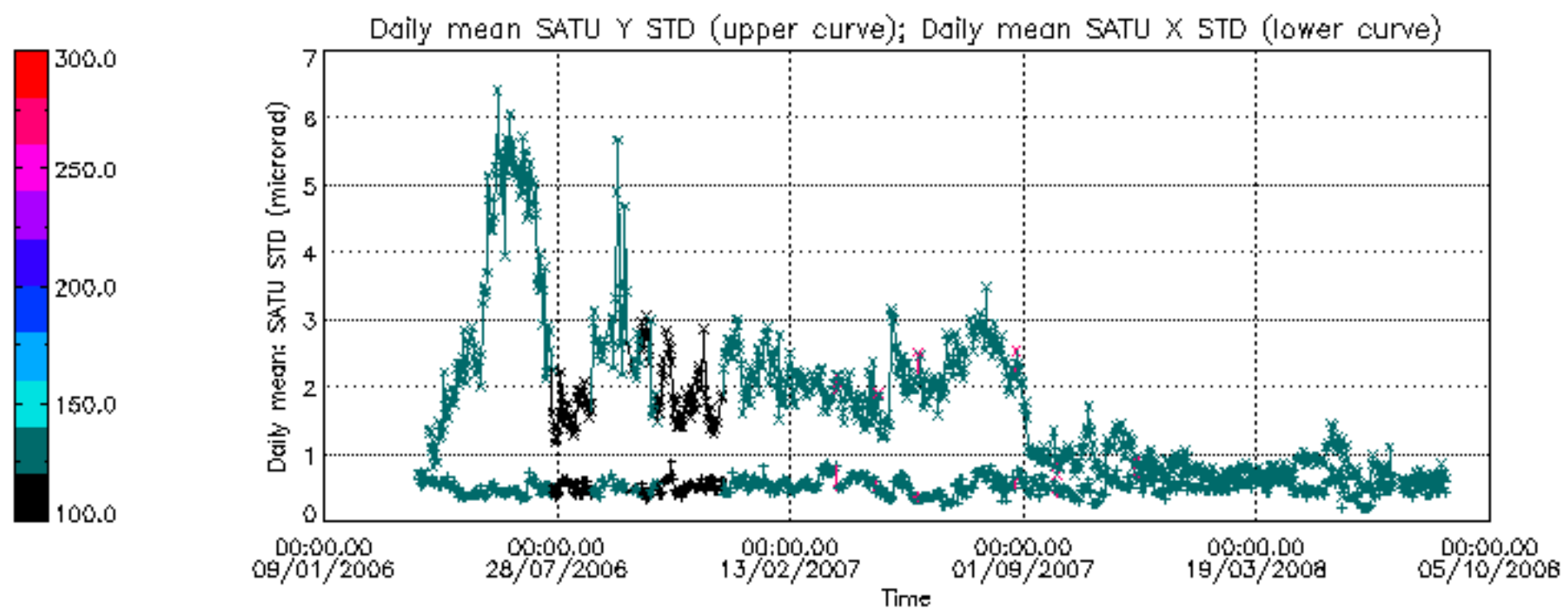
Tangent altitude at which the star is lost











```

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20080801_013214_000043372070_00446_33566_6178.N1
 1; -861.2; 01-AUG-2008 01:32:14; Dark ; 47.0; 7; 19Bet Ori ; 0.10; 14000;occ; 94; 0;33566
 2; -730.5; 01-AUG-2008 01:34:25; Dark ; 41.5; 101; 11Alp Lep ; 2.58; 7000;occ; 83; 0;33566
 3; -299.3; 01-AUG-2008 01:41:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33566
 4; -19.6; 01-AUG-2008 01:46:16; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;33566
 5; 310.1; 01-AUG-2008 01:51:46; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33567
 6; 720.4; 01-AUG-2008 01:58:36; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33567
 7; 921.8; 01-AUG-2008 02:01:57; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;33567
 8; 1110.0; 01-AUG-2008 02:05:05; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;33567
 9; 2059.2; 01-AUG-2008 02:20:55; Bright; 38.0; 11; 53Alp Aql ; 0.76; 8000;occ; 76; 0;33567
10; 2145.3; 01-AUG-2008 02:22:21; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33567
11; 2570.2; 01-AUG-2008 02:29:26; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;33567
12; 2694.1; 01-AUG-2008 02:31:30; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33567
13; 3089.3; 01-AUG-2008 02:38:05; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;33567
14; 3441.0; 01-AUG-2008 02:43:56; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33567
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20080801_025637_000053082070_00447_33567_6179.N1
 1;-1834.9; 01-AUG-2008 02:56:37; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;33567
 2;-1689.0; 01-AUG-2008 02:59:02; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;33567
 3;-1520.3; 01-AUG-2008 03:01:51; Dark ; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;33567
 4;-1395.5; 01-AUG-2008 03:03:56; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;33567
 5;-1175.2; 01-AUG-2008 03:07:36; Dark ; 46.0; 14; 58Alp Ori ; 0.87; 3000;occ; 92; 0;33567
 6;-1009.5; 01-AUG-2008 03:10:22; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;33567
 7; -860.8; 01-AUG-2008 03:12:51; Dark ; 51.0; 7; 19Bet Ori ; 0.10; 14000;occ; 102; 0;33567
 8; -730.2; 01-AUG-2008 03:15:01; Dark ; 39.0; 101; 11Alp Lep ; 2.58; 7000;occ; 78; 0;33567
 9; -298.6; 01-AUG-2008 03:22:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33567
10; -18.6; 01-AUG-2008 03:26:53; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;33567
11; 310.9; 01-AUG-2008 03:32:22; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;33568
12; 721.0; 01-AUG-2008 03:39:12; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;33568
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9; 3438.4; 13-AUG-2008 21:33:28; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33750
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4; 2703.2; 13-AUG-2008 07:56:25; Bright; 39.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 79; 0;33742
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7; 4220.8; 13-AUG-2008 08:21:43; Bright; 47.5; 42; 34Bet Aur ; 1.90; 10200;occ; 95; 0;33742
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13; 5862.4; 15-AUG-2008 09:26:26; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;33771
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| 9;  | 3009.9; | 17-AUG-2008 | 15:58:39; | Bright; | 38.0; | 89;   | 5Alp Cep  | ;         | 2.45; | 8000;occ;  | 76;        | 0;33804 |         |
| 10;   | 3437.8; | 17-AUG-2008 | 16:05:47; | Bright; | 34.0; | 49;   | 1Alp UMi  | ;         | 1.99; | 6300;occ;  | 68;        | 0;33804 |         |
| 11;   | 4191.4; | 17-AUG-2008 | 16:18:21; | Bright; | 45.5; | 6;    | 13Alp Aur | ;         | 0.08; | 3400;occ;  | 91;        | 0;33804 |         |
| 12;   | 4369.2; | 17-AUG-2008 | 16:21:18; | Bright; | 39.0; | 107;  | 37The Aur | ;         | 2.65; | 11000;occ; | 78;        | 0;33804 |         |
| 13;   | 4558.5; | 17-AUG-2008 | 16:24:28; | Dark    | ;     | 50.0; | 28;       | 12Bet Tau | ;     | 1.65;      | 15200;occ; | 100;    | 0;33804 |
| 14;   | 4728.2; | 17-AUG-2008 | 16:27:17; | Dark    | ;     | 39.0; | 44;       | 24Gam Gem | ;     | 1.93;      | 11000;occ; | 78;     | 0;33804 |
| 15;   | 4943.9; | 17-AUG-2008 | 16:30:53; | Dark    | ;     | 49.0; | 14;       | 58Alp Ori | ;     | 0.87;      | 3000;occ;  | 98;     | 0;33804 |
| 16;   | 5140.1; | 17-AUG-2008 | 16:34:09; | Dark    | ;     | 51.0; | 30;       | 46Eps Ori | ;     | 1.69;      | 30000;occ; | 102;    | 0;33804 |
| 17;   | 5226.3; | 17-AUG-2008 | 16:35:35; | Dark    | ;     | 46.5; | 125;      | 44Iot Ori | ;     | 2.77;      | 30000;occ; | 93;     | 0;33804 |
| 18;   | 5324.7; | 17-AUG-2008 | 16:37:14; | Dark    | ;     | 67.0; | 7;        | 19Bet Ori | ;     | 0.10;      | 14000;occ; | 134;    | 0;33804 |
| 19;   | 5433.4; | 17-AUG-2008 | 16:39:03; | Dark    | ;     | 45.5; | 101;      | 11Alp Lep | ;     | 2.58;      | 7000;occ;  | 91;     | 0;33804 |
| 20;   | 5604.9; | 17-AUG-2008 | 16:41:54; | Dark    | ;     | 59.5; | 0;        |           | ;     | 0.00;      | 0;occ;     | 119;    | 0;33804 |
| 21;   | 6277.4; | 17-AUG-2008 | 16:53:07; | Dark    | ;     | 49.0; | 157;      | The1Eri   | ;     | 2.91;      | 9300;occ;  | 98;     | 0;33804 |
| 22;   | 6510.4; | 17-AUG-2008 | 16:57:00; | Dark    | ;     | 44.5; | 9;        | Alp Eri   | ;     | 0.45;      | 24000;occ; | 89;     | 0;33804 |
| 23;   | 6858.4; | 17-AUG-2008 | 17:02:48; | Dark    | ;     | 51.5; | 84;       | Alp Phe   | ;     | 2.40;      | 4500;occ;  | 103;    | 0;33804 |
| 24;   | 7060.6; | 17-AUG-2008 | 17:06:10; | Dark    | ;     | 40.5; | 31;       | Alp Gru   | ;     | 1.73;      | 15200;occ; | 81;     | 0;33804 |
| /nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20080817_170610_000060652071_00184_33805_1740.N1 |         |             |           |         |       |       |           |           |       |            |            |         |         |
| 1;  | 1024.6; | 17-AUG-2008 | 17:06:10; | Dark    | ;     | 41.0; | 31;       | Alp Gru   | ;     | 1.73;      | 15200;occ; | 82;     | 0;33805 |
| 2;  | 1262.9; | 17-AUG-2008 | 17:10:08; | Dark    | ;     | 56.0; | 18;       | 24Alp PsA | ;     | 1.17;      | 9700;occ;  | 112;    | 0;33805 |
| 3;  | 1594.9; | 17-AUG-2008 | 17:15:40; | Bright; | 43.5; | 142;  | 49Del Cap | ;         | 2.85; | 8900;occ;  | 87;        | 0;33805 |         |
| 4;  | 1799.5; | 17-AUG-2008 | 17:19:05; | Bright; | 41.0; | 154;  | 22Bet Aqr | ;         | 2.90; | 5700;occ;  | 82;        | 0;33805 |         |
| 5;  | 1917.0; | 17-AUG-2008 | 17:21:02; | Bright; | 46.0; | 162;  | 34Alp Aqr | ;         | 2.94; | 5350;occ;  | 92;        | 0;33805 |         |
| 6;  | 2106.2; | 17-AUG-2008 | 17:24:11; | Bright; | 43.0; | 61;   | 8Eps Peg  | ;         | 2.10; | 3900;occ;  | 86;        | 0;33805 |         |
| 7;  | 2498.0; | 17-AUG-2008 | 17:30:43; | Bright; | 38.5; | 92;   | 53Eps Cyg | ;         | 2.50; | 4500;occ;  | 77;        | 0;33805 |         |
| 8;  | 2595.7; | 17-AUG-2008 | 17:32:21; | Bright; | 37.0; | 66;   | 37Gam Cyg | ;         | 2.21; | 5900;occ;  | 74;        | 0;33805 |         |
| 9;  | 2690.4; | 17-AUG-2008 | 17:33:56; | Bright; | 49.0; | 19;   | 50Alp Cyg | ;         | 1.25; | 10500;occ; | 98;        | 0;33805 |         |
| 10;   | 3009.6; | 17-AUG-2008 | 17:39:15; | Bright; | 38.5; | 89;   | 5Alp Cep  | ;         | 2.45; | 8000;occ;  | 77;        | 0;33805 |         |
| 11;   | 3437.8; | 17-AUG-2008 | 17:46:23; | Bright; | 35.5; | 49;   | 1Alp UMi  | ;         | 1.99; | 6300;occ;  | 71;        | 0;33805 |         |
| 12;   | 4191.3; | 17-AUG-2008 | 17:58:56; | Bright; | 48.0; | 6;    | 13Alp Aur | ;         | 0.08; | 3400;occ;  | 96;        | 0;33805 |         |
| 13;   | 4369.3; | 17-AUG-2008 | 18:01:54; | Bright; | 40.0; | 107;  | 37The Aur | ;         | 2.65; | 11000;occ; | 80;        | 0;33805 |         |
| 14;   | 4558.7; | 17-AUG-2008 | 18:05:04; | Dark    | ;     | 50.0; | 28;       | 12Bet Tau | ;     | 1.65;      | 15200;occ; | 100;    | 0;33805 |
| 15;   | 4728.5; | 17-AUG-2008 | 18:07:54; | Dark    | ;     | 40.5; | 44;       | 24Gam Gem | ;     | 1.93;      | 11000;occ; | 81;     | 0;33805 |
| 16;   | 4944.4; | 17-AUG-2008 | 18:11:30; | Dark    | ;     | 51.0; | 14;       | 58Alp Ori | ;     | 0.87;      | 3000;occ;  | 102;    | 0;33805 |
| 17;   | 5140.7; | 17-AUG-2008 | 18:14:46; | Dark    | ;     | 52.0; | 30;       | 46Eps Ori | ;     | 1.69;      | 30000;occ; | 104;    | 0;33805 |
| 18;   | 5226.9; | 17-AUG-2008 | 18:16:12; | Dark    | ;     | 47.5; | 125;      | 44Iot Ori | ;     | 2.77;      | 30000;occ; | 95;     | 0;33805 |
| 19;   | 5325.6; | 17-AUG-2008 | 18:17:51; | Dark    | ;     | 59.0; | 7;        | 19Bet Ori | ;     | 0.10;      | 14000;occ; | 118;    | 0;33805 |
| 20;   | 5434.1; | 17-AUG-2008 | 18:19:39; | Dark    | ;     | 45.5; | 101;      | 11Alp Lep | ;     | 2.58;      | 7000;occ;  | 91;     | 0;33805 |
| 21;   | 5605.7; | 17-AUG-2008 | 18:22:31; | Dark    | ;     | 59.0; | 0;        |           | ;     | 0.00;      | 0;occ;     | 118;    | 0;33805 |
| 22;   | 6278.5; | 17-AUG-2008 | 18:33:44; | Dark    | ;     | 50.5; | 157;      | The1Eri   | ;     | 2.91;      | 9300;occ;  | 101;    | 0;33805 |
| 23;   | 6511.1; | 17-AUG-2008 | 18:37:36; | Dark    | ;     | 46.0; | 9;        | Alp Eri   | ;     | 0.45;      | 24000;occ; | 92;     | 0;33805 |
| 24;   | 6859.3; | 17-AUG-2008 | 18:43:24; | Dark    | ;     | 60.0; | 84;       | Alp Phe   | ;     | 2.40;      | 4500;occ;  | 120;    | 0;33805 |
| 25;   | 7061.0; | 17-AUG-2008 | 18:46:46; | Dark    | ;     | 29.0; | 31;       | Alp Gru   | ;     | 1.73;      | 15200;occ; | 58;     | 0;33805 |
| /nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20080817_184646_000058952071_00185_33806_1741.N1 |         |             |           |         |       |       |           |           |       |            |            |         |         |
| 1;  | 1025.0; | 17-AUG-2008 | 18:46:46; | Dark    | ;     | 41.5; | 31;       | Alp Gru   | ;     | 1.73;      | 15200;occ; | 83;     | 0;33806 |
| 2;  | 1263.3; | 17-AUG-2008 | 18:50:44; | Dark    | ;     | 53.5; | 18;       | 24Alp PsA | ;     | 1.17;      | 9700;occ;  | 107;    | 0;33806 |
| 3;  | 1594.9; | 17-AUG-2008 | 18:56:16; | Bright; | 42.5; | 142;  | 49Del Cap | ;         | 2.85; | 8900;occ;  | 85;        | 0;33806 |         |
| 4;  | 1799.6; | 17-AUG-2008 | 18:59:41; | Bright; | 40.5; | 154;  | 22Bet Aqr | ;         | 2.90; | 5700;occ;  | 81;        | 0;33806 |         |
| 5;  | 1916.8; | 17-AUG-2008 | 19:01:38; | Bright; | 46.0; | 162;  | 34Alp Aqr | ;         | 2.94; | 5350;occ;  | 92;        | 0;33806 |         |
| 6;  | 2105.9; | 17-AUG-2008 | 19:04:47; | Bright; | 44.0; | 61;   | 8Eps Peg  | ;         | 2.10; | 3900;occ;  | 88;        | 0;33806 |         |
| 7;  | 2497.9; | 17-AUG-2008 | 19:11:19; | Bright; | 38.5; | 92;   | 53Eps Cyg | ;         | 2.50; | 4500;occ;  | 77;        | 0;33806 |         |
| 8;  | 2595.6; | 17-AUG-2008 | 19:12:57; | Bright; | 37.5; | 66;   | 37Gam Cyg | ;         | 2.21; | 5900;occ;  | 75;        | 0;33806 |         |
| 9;  | 2690.2; | 17-AUG-2008 | 19:14:31; | Bright; | 54.0; | 19;   | 50Alp Cyg | ;         | 1.25; | 10500;occ; | 108;       | 0;33806 |         |
| 10;   | 3009.4; | 17-AUG-2008 | 19:19:51; | Bright; | 37.5; | 89;   | 5Alp Cep  | ;         | 2.45; | 8000;occ;  | 75;        | 0;33806 |         |
| 11;   | 3437.7; | 17-AUG-2008 | 19:26:59; | Bright; | 36.0; | 49;   | 1Alp UMi  | ;         | 1.99; | 6300;occ;  | 72;        | 0;33806 |         |
| 12;   | 4190.9; | 17-AUG-2008 | 19:39:32; | Bright; | 47.5; | 6;    | 13Alp Aur | ;         | 0.08; | 3400;occ;  | 95;        | 0;33806 |         |
| 13;   | 4369.2; | 17-AUG-2008 | 19:42:30; | Bright; | 40.5; | 107;  | 37The Aur | ;         | 2.65; | 11000;occ; | 81;        | 0;33806 |         |
| 14;   | 4558.9; | 17-AUG-2008 | 19:45:40; | Dark    | ;     | 51.0; | 28;       | 12Bet Tau | ;     | 1.65;      | 15200;occ; | 102;    | 0;33806 |
| 15;   | 4728.7; | 17-AUG-2008 | 19:48:30; | Dark    | ;     | 39.0; | 44;       | 24Gam Gem | ;     | 1.93;      | 11000;occ; | 78;     | 0;33806 |
| 16;   | 4944.8; | 17-AUG-2008 | 19:52:06; | Dark    | ;     | 61.0; | 14;       | 58Alp Ori | ;     | 0.87;      | 3000;occ;  | 122;    | 0;33806 |
| 17;   | 5141.3; | 17-AUG-2008 | 19:55:23; | Dark    | ;     | 50.5; | 30;       | 46Eps Ori | ;     | 1.69;      | 30000;occ; | 101;    | 0;33806 |
| 18;   | 5227.6; | 17-AUG-2008 | 19:56:49; | Dark    | ;     | 47.5; | 125;      | 44Iot Ori | ;     | 2.77;      | 30000;occ; | 95;     | 0;33806 |

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19; 5326.4; 17-AUG-2008 19:58:28; Dark ; 54.0; 7; 19Bet Ori ; 0.10; 14000;occ; 108; 0;33806
20; 5434.8; 17-AUG-2008 20:00:16; Dark ; 45.0; 101; 11Alp Lep ; 2.58; 7000;occ; 90; 0;33806
21; 5606.4; 17-AUG-2008 20:03:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33806
22; 6279.7; 17-AUG-2008 20:14:21; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;33806
23; 6511.7; 17-AUG-2008 20:18:13; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;33806
24; 6860.0; 17-AUG-2008 20:24:01; Dark ; 60.0; 84; Alp Phe ; 2.40; 4500;occ; 120; 0;33806
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1; -688.1; 18-AUG-2008 01:00:37; Dark ; 57.0; 7; 19Bet Ori ; 0.10; 14000;occ; 114; 38;33809
2; -599.0; 18-AUG-2008 01:02:06; Dark ; 42.5; 101; 11Alp Lep ; 2.58; 7000;occ; 85; 0;33809
3; -427.2; 18-AUG-2008 01:04:58; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33809
4; 247.3; 18-AUG-2008 01:16:12; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;33810
5; 477.8; 18-AUG-2008 01:20:03; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;33810
6; 826.4; 18-AUG-2008 01:25:51; Dark ; 61.0; 84; Alp Phe ; 2.40; 4500;occ; 122; 0;33810
7; 1026.3; 18-AUG-2008 01:29:11; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;33810
8; 1264.9; 18-AUG-2008 01:33:10; Dark ; 53.0; 18; 24Alp PsA ; 1.17; 9700;occ; 106; 0;33810
9; 1595.4; 18-AUG-2008 01:38:40; Bright; 42.0; 142; 49Del Cap ; 2.85; 8900;occ; 84; 0;33810
10; 1799.4; 18-AUG-2008 01:42:04; Bright; 41.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 82; 0;33810
11; 1915.9; 18-AUG-2008 01:44:01; Bright; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;33810
12; 2104.7; 18-AUG-2008 01:47:09; Bright; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;33810
13; 2497.1; 18-AUG-2008 01:53:42; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;33810
14; 2595.2; 18-AUG-2008 01:55:20; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;33810
15; 2689.5; 18-AUG-2008 01:56:54; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;33810
16; 3008.3; 18-AUG-2008 02:02:13; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33810
17; 3437.6; 18-AUG-2008 02:09:22; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;33810
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2;-1666.3; 18-AUG-2008 02:24:54; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;33810
3;-1476.3; 18-AUG-2008 02:28:04; Dark ; 52.0; 28; 12Bet Tau ; 1.65; 15200;occ; 104; 0;33810
4;-1306.1; 18-AUG-2008 02:30:55; Dark ; 41.0; 44; 24Gam Gem ; 1.93; 11000;occ; 82; 0;33810
5;-1089.3; 18-AUG-2008 02:34:31; Dark ; 57.5; 14; 58Alp Ori ; 0.87; 3000;occ; 115; 0;33810
6; -892.0; 18-AUG-2008 02:37:49; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;33810
7; -805.5; 18-AUG-2008 02:39:15; Dark ; 45.5; 125; 44Iot Ori ; 2.77; 30000;occ; 91; 0;33810
8; -706.1; 18-AUG-2008 02:40:55; Dark ; 57.0; 7; 19Bet Ori ; 0.10; 14000;occ; 114; 0;33810
9; -598.4; 18-AUG-2008 02:42:42; Dark ; 42.5; 101; 11Alp Lep ; 2.58; 7000;occ; 85; 0;33810
10; -426.4; 18-AUG-2008 02:45:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33810
11; 248.5; 18-AUG-2008 02:56:49; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;33811
12; 478.5; 18-AUG-2008 03:00:39; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;33811
13; 827.3; 18-AUG-2008 03:06:28; Dark ; 60.0; 84; Alp Phe ; 2.40; 4500;occ; 120; 0;33811
14; 1026.8; 18-AUG-2008 03:09:47; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;33811
15; 1265.3; 18-AUG-2008 03:13:46; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33811
16; 1595.7; 18-AUG-2008 03:19:16; Bright; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;33811
17; 1799.6; 18-AUG-2008 03:22:40; Bright; 41.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 82; 0;33811
18; 1915.8; 18-AUG-2008 03:24:36; Bright; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;33811
19; 2104.5; 18-AUG-2008 03:27:45; Bright; 42.5; 61; 8Eps Peg ; 2.10; 3900;occ; 85; 0;33811
20; 2497.0; 18-AUG-2008 03:34:18; Bright; 37.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 74; 0;33811
21; 2595.2; 18-AUG-2008 03:35:56; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;33811
22; 2689.4; 18-AUG-2008 03:37:30; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;33811
23; 3008.1; 18-AUG-2008 03:42:49; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;33811
24; 3437.7; 18-AUG-2008 03:49:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33811
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1;-1845.4; 18-AUG-2008 04:02:31; Bright; 45.5; 6; 13Alp Aur ; 0.08; 3400;occ; 91; 0;33811
2;-1666.3; 18-AUG-2008 04:05:30; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;33811
3;-1476.1; 18-AUG-2008 04:08:41; Dark ; 52.5; 28; 12Bet Tau ; 1.65; 15200;occ; 105; 0;33811
4;-1305.9; 18-AUG-2008 04:11:31; Dark ; 40.5; 44; 24Gam Gem ; 1.93; 11000;occ; 81; 0;33811
5;-1088.9; 18-AUG-2008 04:15:08; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;33811
6; -891.3; 18-AUG-2008 04:18:25; Dark ; 49.0; 30; 46Eps Ori ; 1.69; 30000;occ; 98; 0;33811
7; -804.9; 18-AUG-2008 04:19:52; Dark ; 48.0; 125; 44Iot Ori ; 2.77; 30000;occ; 96; 0;33811
8; -705.2; 18-AUG-2008 04:21:31; Dark ; 58.5; 7; 19Bet Ori ; 0.10; 14000;occ; 117; 0;33811
9; -597.6; 18-AUG-2008 04:23:19; Dark ; 43.0; 101; 11Alp Lep ; 2.58; 7000;occ; 86; 0;33811
10; -425.6; 18-AUG-2008 04:26:11; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33811
11; 249.7; 18-AUG-2008 04:37:26; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;33812
12; 479.2; 18-AUG-2008 04:41:16; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33812
13; 827.9; 18-AUG-2008 04:47:05; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;33812
14; 1027.2; 18-AUG-2008 04:50:24; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;33812
15; 1265.7; 18-AUG-2008 04:54:22; Dark ; 55.0; 18; 24Alp PsA ; 1.17; 9700;occ; 110; 0;33812
16; 1595.7; 18-AUG-2008 04:59:52; Bright; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;33812
17; 1799.4; 18-AUG-2008 05:03:16; Bright; 42.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 84; 0;33812
18; 1915.5; 18-AUG-2008 05:05:12; Bright; 46.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 92; 0;33812

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19; 2496.9; 18-AUG-2008 05:14:53; Bright; 38.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 77; 0;33812
20; 2595.1; 18-AUG-2008 05:16:32; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33812
21; 2689.2; 18-AUG-2008 05:18:06; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;33812
22; 3008.0; 18-AUG-2008 05:23:25; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;33812
23; 3437.8; 18-AUG-2008 05:30:34; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;33812
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 2; -1666.3; 18-AUG-2008 05:46:06; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;33812
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11; 4563.4; 19-AUG-2008 08:38:55; Dark ; 55.5; 28; 12Bet Tau ; 1.65; 15200;occ; 111; 0;33828  
12; 4734.6; 19-AUG-2008 08:41:46; Dark ; 41.5; 44; 24Gam Gem ; 1.93; 11000;occ; 83; 0;33828  
13; 4955.2; 19-AUG-2008 08:45:27; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;33828  
14; 5039.0; 19-AUG-2008 08:46:50; Dark ; 54.5; 27; 24Gam Ori ; 1.64; 26000;occ; 109; 0;33828  
15; 5156.1; 19-AUG-2008 08:48:48; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;33828  
16; 5243.2; 19-AUG-2008 08:50:15; Dark ; 45.5; 125; 44Iot Ori ; 2.77; 30000;occ; 91; 0;33828  
17; 5345.8; 19-AUG-2008 08:51:57; Dark ; 61.0; 7; 19Bet Ori ; 0.10; 14000;occ; 122; 0;33828  
18; 5451.1; 19-AUG-2008 08:53:42; Dark ; 47.0; 101; 11Alp Lep ; 2.58; 7000;occ; 94; 0;33828  
19; 5624.0; 19-AUG-2008 08:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33828  
20; 6306.1; 19-AUG-2008 09:07:58; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;33828  
21; 6526.5; 19-AUG-2008 09:11:38; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33828  
22; 6877.4; 19-AUG-2008 09:17:29; Dark ; 65.0; 84; Alp Phe ; 2.40; 4500;occ; 130; 0;33828  
23; 7068.9; 19-AUG-2008 09:20:40; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33828  
24; 7308.1; 19-AUG-2008 09:24:40; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33828  
25; 7633.6; 19-AUG-2008 09:30:05; Bright; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;33828  
26; 7835.4; 19-AUG-2008 09:33:27; Bright; 18.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 37; 0;33828

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2; 1912.4; 19-AUG-2008 09:35:20; Bright; 45.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 90; 0;33829  
3; 2099.9; 19-AUG-2008 09:38:27; Bright; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;33829  
4; 2494.3; 19-AUG-2008 09:45:02; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;33829  
5; 2593.9; 19-AUG-2008 09:46:41; Bright; 34.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 69; 0;33829  
6; 2686.8; 19-AUG-2008 09:48:14; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;33829  
7; 3004.0; 19-AUG-2008 09:53:31; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;33829  
8; 3437.5; 19-AUG-2008 10:00:45; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33829  
9; 4188.5; 19-AUG-2008 10:13:16; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;33829  
10; 4370.9; 19-AUG-2008 10:16:18; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;33829  
11; 4563.6; 19-AUG-2008 10:19:31; Dark ; 52.5; 28; 12Bet Tau ; 1.65; 15200;occ; 105; 0;33829  
12; 4734.8; 19-AUG-2008 10:22:22; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;33829  
13; 4955.7; 19-AUG-2008 10:26:03; Dark ; 59.5; 14; 58Alp Ori ; 0.87; 3000;occ; 119; 0;33829  
14; 5039.7; 19-AUG-2008 10:27:27; Dark ; 56.5; 27; 24Gam Ori ; 1.64; 26000;occ; 113; 0;33829  
15; 5156.7; 19-AUG-2008 10:29:24; Dark ; 52.0; 30; 46Eps Ori ; 1.69; 30000;occ; 104; 0;33829  
16; 5244.0; 19-AUG-2008 10:30:51; Dark ; 45.5; 125; 44Iot Ori ; 2.77; 30000;occ; 91; 0;33829  
17; 5346.8; 19-AUG-2008 10:32:34; Dark ; 60.0; 7; 19Bet Ori ; 0.10; 14000;occ; 120; 0;33829  
18; 5451.8; 19-AUG-2008 10:34:19; Dark ; 49.0; 101; 11Alp Lep ; 2.58; 7000;occ; 98; 0;33829  
19; 5624.8; 19-AUG-2008 10:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33829  
20; 6307.3; 19-AUG-2008 10:48:35; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;33829  
21; 6527.2; 19-AUG-2008 10:52:15; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;33829  
22; 6878.1; 19-AUG-2008 10:58:05; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;33829  
23; 7069.2; 19-AUG-2008 11:01:17; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33829  
24; 7308.6; 19-AUG-2008 11:05:16; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33829  
25; 7633.6; 19-AUG-2008 11:10:41; Bright; 42.0; 142; 49Del Cap ; 2.85; 8900;occ; 84; 0;33829

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1; 1799.3; 19-AUG-2008 11:14:03; Bright; 41.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 83; 0;33830  
2; 1912.1; 19-AUG-2008 11:15:55; Bright; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;33830

|   |         |             |           |         |         |      |           |         |            |      |          |
|---|---------|-------------|-----------|---------|---------|------|-----------|---------|------------|------|----------|
| 3;  | 2099.6; | 19-AUG-2008 | 11:19:03; | Bright; | 41.0;   | 61;  | 8Eps Peg  | ; 2.10; | 3900;occ;  | 82;  | 0;33830  |
| 4;  | 2494.1; | 19-AUG-2008 | 11:25:37; | Bright; | 36.0;   | 92;  | 53Eps Cyg | ; 2.50; | 4500;occ;  | 72;  | 0;33830  |
| 5;  | 2593.9; | 19-AUG-2008 | 11:27:17; | Bright; | 37.0;   | 66;  | 37Gam Cyg | ; 2.21; | 5900;occ;  | 74;  | 0;33830  |
| 6;  | 2686.6; | 19-AUG-2008 | 11:28:50; | Bright; | 38.5;   | 19;  | 50Alp Cyg | ; 1.25; | 10500;occ; | 77;  | 0;33830  |
| 7;  | 3003.8; | 19-AUG-2008 | 11:34:07; | Bright; | 38.0;   | 89;  | 5Alp Cep  | ; 2.45; | 8000;occ;  | 76;  | 0;33830  |
| 8;  | 3437.2; | 19-AUG-2008 | 11:41:20; | Bright; | 36.5;   | 49;  | 1Alp UMi  | ; 1.99; | 6300;occ;  | 73;  | 0;33830  |
| 9;  | 4188.3; | 19-AUG-2008 | 11:53:51; | Bright; | 47.0;   | 6;   | 13Alp Aur | ; 0.08; | 3400;occ;  | 94;  | 0;33830  |
| 10;   | 4371.0; | 19-AUG-2008 | 11:56:54; | Bright; | 39.5;   | 107; | 37The Aur | ; 2.65; | 11000;occ; | 79;  | 0;33830  |
| 11;   | 4563.7; | 19-AUG-2008 | 12:00:07; | Dark    | ; 52.0; | 28;  | 12Bet Tau | ; 1.65; | 15200;occ; | 104; | 0;33830  |
| 12;   | 4735.0; | 19-AUG-2008 | 12:02:58; | Dark    | ; 40.0; | 44;  | 24Gam Gem | ; 1.93; | 11000;occ; | 80;  | 0;33830  |
| 13;   | 4956.2; | 19-AUG-2008 | 12:06:39; | Dark    | ; 62.0; | 14;  | 58Alp Ori | ; 0.87; | 3000;occ;  | 124; | 0;33830  |
| 14;   | 5040.3; | 19-AUG-2008 | 12:08:03; | Dark    | ; 56.0; | 27;  | 24Gam Ori | ; 1.64; | 26000;occ; | 112; | 0;33830  |
| 15;   | 5157.4; | 19-AUG-2008 | 12:10:01; | Dark    | ; 53.0; | 30;  | 46Eps Ori | ; 1.69; | 30000;occ; | 106; | 0;33830  |
| 16;   | 5244.6; | 19-AUG-2008 | 12:11:28; | Dark    | ; 47.5; | 125; | 44Iot Ori | ; 2.77; | 30000;occ; | 95;  | 0;33830  |
| 17;   | 5347.7; | 19-AUG-2008 | 12:13:11; | Dark    | ; 58.0; | 7;   | 19Bet Ori | ; 0.10; | 14000;occ; | 116; | 0;33830  |
| 18;   | 5452.6; | 19-AUG-2008 | 12:14:56; | Dark    | ; 47.0; | 101; | 11Alp Lep | ; 2.58; | 7000;occ;  | 94;  | 0;33830  |
| 19;   | 5625.6; | 19-AUG-2008 | 12:17:49; | Dark    | ; 59.5; | 0;   |           | ; 0.00; | 0;occ;     | 119; | 0;33830  |
| 20;   | 6308.4; | 19-AUG-2008 | 12:29:12; | Dark    | ; 52.0; | 157; | The1Eri   | ; 2.91; | 9300;occ;  | 104; | 0;33830  |
| 21;   | 6527.9; | 19-AUG-2008 | 12:32:51; | Dark    | ; 46.5; | 9;   | Alp Eri   | ; 0.45; | 24000;occ; | 93;  | 0;33830  |
| 22;   | 6878.9; | 19-AUG-2008 | 12:38:42; | Dark    | ; 52.5; | 84;  | Alp Phe   | ; 2.40; | 4500;occ;  | 105; | 0;33830  |
| 23;   | 7069.6; | 19-AUG-2008 | 12:41:53; | Dark    | ; 39.0; | 31;  | Alp Gru   | ; 1.73; | 15200;occ; | 78;  | 0;33830  |
| 24;   | 7308.9; | 19-AUG-2008 | 12:45:52; | Dark    | ; 54.0; | 18;  | 24Alp PsA | ; 1.17; | 9700;occ;  | 108; | 0;33830  |
| 25;   | 7633.8; | 19-AUG-2008 | 12:51:17; | Bright; | 41.0;   | 142; | 49Del Cap | ; 2.85; | 8900;occ;  | 82;  | 0;33830  |
| /nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20080819_125137_000057432071_00210_33831_1756.N1 |         |             |           |         |         |      |           |         |            |      |          |
| 1;  | 1618.0; | 19-AUG-2008 | 12:51:37; | Bright; | 41.5;   | 142; | 49Del Cap | ; 2.85; | 8900;occ;  | 83;  | 40;33831 |
| 2;  | 1799.4; | 19-AUG-2008 | 12:54:38; | Bright; | 40.0;   | 154; | 22Bet Aqr | ; 2.90; | 5700;occ;  | 80;  | 0;33831  |
| 3;  | 1912.0; | 19-AUG-2008 | 12:56:31; | Bright; | 45.0;   | 162; | 34Alp Aqr | ; 2.94; | 5350;occ;  | 90;  | 0;33831  |
| 4;  | 2099.4; | 19-AUG-2008 | 12:59:38; | Bright; | 42.5;   | 61;  | 8Eps Peg  | ; 2.10; | 3900;occ;  | 85;  | 0;33831  |
| 5;  | 2494.1; | 19-AUG-2008 | 13:06:13; | Bright; | 38.5;   | 92;  | 53Eps Cyg | ; 2.50; | 4500;occ;  | 77;  | 0;33831  |
| 6;  | 2593.8; | 19-AUG-2008 | 13:07:53; | Bright; | 37.5;   | 66;  | 37Gam Cyg | ; 2.21; | 5900;occ;  | 75;  | 0;33831  |
| 7;  | 2686.5; | 19-AUG-2008 | 13:09:26; | Bright; | 35.0;   | 19;  | 50Alp Cyg | ; 1.25; | 10500;occ; | 70;  | 0;33831  |
| 8;  | 3003.5; | 19-AUG-2008 | 13:14:43; | Bright; | 38.0;   | 89;  | 5Alp Cep  | ; 2.45; | 8000;occ;  | 76;  | 0;33831  |
| 9;  | 3437.5; | 19-AUG-2008 | 13:21:56; | Bright; | 36.5;   | 49;  | 1Alp UMi  | ; 1.99; | 6300;occ;  | 73;  | 0;33831  |
| 10;   | 4188.2; | 19-AUG-2008 | 13:34:27; | Bright; | 48.5;   | 6;   | 13Alp Aur | ; 0.08; | 3400;occ;  | 97;  | 0;33831  |
| 11;   | 4371.0; | 19-AUG-2008 | 13:37:30; | Bright; | 40.5;   | 107; | 37The Aur | ; 2.65; | 11000;occ; | 81;  | 0;33831  |
| 12;   | 4564.0; | 19-AUG-2008 | 13:40:43; | Dark    | ; 55.5; | 28;  | 12Bet Tau | ; 1.65; | 15200;occ; | 111; | 0;33831  |
| 13;   | 4735.5; | 19-AUG-2008 | 13:43:35; | Dark    | ; 44.0; | 44;  | 24Gam Gem | ; 1.93; | 11000;occ; | 88;  | 0;33831  |
| 14;   | 4956.7; | 19-AUG-2008 | 13:47:16; | Dark    | ; 58.5; | 14;  | 58Alp Ori | ; 0.87; | 3000;occ;  | 117; | 0;33831  |
| 15;   | 5041.1; | 19-AUG-2008 | 13:48:40; | Dark    | ; 57.5; | 27;  | 24Gam Ori | ; 1.64; | 26000;occ; | 115; | 0;33831  |
| 16;   | 5158.2; | 19-AUG-2008 | 13:50:37; | Dark    | ; 52.5; | 30;  | 46Eps Ori | ; 1.69; | 30000;occ; | 105; | 0;33831  |
| 17;   | 5245.4; | 19-AUG-2008 | 13:52:04; | Dark    | ; 48.0; | 125; | 44Iot Ori | ; 2.77; | 30000;occ; | 96;  | 0;33831  |
| 18;   | 5348.6; | 19-AUG-2008 | 13:53:48; | Dark    | ; 59.5; | 7;   | 19Bet Ori | ; 0.10; | 14000;occ; | 119; | 0;33831  |
| 19;   | 5453.4; | 19-AUG-2008 | 13:55:32; | Dark    | ; 48.0; | 101; | 11Alp Lep | ; 2.58; | 7000;occ;  | 96;  | 0;33831  |
| 20;   | 5626.5; | 19-AUG-2008 | 13:58:25; | Dark    | ; 59.0; | 0;   |           | ; 0.00; | 0;occ;     | 118; | 0;33831  |
| 21;   | 6309.7; | 19-AUG-2008 | 14:09:49; | Dark    | ; 53.5; | 157; | The1Eri   | ; 2.91; | 9300;occ;  | 107; | 0;33831  |
| 22;   | 6528.6; | 19-AUG-2008 | 14:13:28; | Dark    | ; 45.0; | 9;   | Alp Eri   | ; 0.45; | 24000;occ; | 90;  | 0;33831  |
| 23;   | 6879.7; | 19-AUG-2008 | 14:19:19; | Dark    | ; 54.0; | 84;  | Alp Phe   | ; 2.40; | 4500;occ;  | 108; | 0;33831  |
| 24;   | 7070.0; | 19-AUG-2008 | 14:22:29; | Dark    | ; 39.5; | 31;  | Alp Gru   | ; 1.73; | 15200;occ; | 79;  | 0;33831  |
| 25;   | 7309.3; | 19-AUG-2008 | 14:26:28; | Dark    | ; 52.5; | 18;  | 24Alp PsA | ; 1.17; | 9700;occ;  | 105; | 0;33831  |
| /nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20080819_143153_000055112071_00211_33832_1757.N1 |         |             |           |         |         |      |           |         |            |      |          |
| 1;  | 1598.1; | 19-AUG-2008 | 14:31:53; | Bright; | 41.5;   | 142; | 49Del Cap | ; 2.85; | 8900;occ;  | 83;  | 0;33832  |
| 2;  | 1799.5; | 19-AUG-2008 | 14:35:14; | Bright; | 40.5;   | 154; | 22Bet Aqr | ; 2.90; | 5700;occ;  | 81;  | 0;33832  |
| 3;  | 1911.9; | 19-AUG-2008 | 14:37:07; | Bright; | 45.5;   | 162; | 34Alp Aqr | ; 2.94; | 5350;occ;  | 91;  | 0;33832  |
| 4;  | 2099.3; | 19-AUG-2008 | 14:40:14; | Bright; | 42.5;   | 61;  | 8Eps Peg  | ; 2.10; | 3900;occ;  | 85;  | 0;33832  |
| 5;  | 2494.0; | 19-AUG-2008 | 14:46:49; | Bright; | 37.5;   | 92;  | 53Eps Cyg | ; 2.50; | 4500;occ;  | 75;  | 0;33832  |
| 6;  | 2593.8; | 19-AUG-2008 | 14:48:29; | Bright; | 35.5;   | 66;  | 37Gam Cyg | ; 2.21; | 5900;occ;  | 71;  | 0;33832  |
| 7;  | 2686.4; | 19-AUG-2008 | 14:50:01; | Bright; | 37.5;   | 19;  | 50Alp Cyg | ; 1.25; | 10500;occ; | 75;  | 0;33832  |
| 8;  | 3003.4; | 19-AUG-2008 | 14:55:18; | Bright; | 37.0;   | 89;  | 5Alp Cep  | ; 2.45; | 8000;occ;  | 74;  | 0;33832  |
| 9;  | 3437.5; | 19-AUG-2008 | 15:02:32; | Bright; | 34.0;   | 49;  | 1Alp UMi  | ; 1.99; | 6300;occ;  | 68;  | 0;33832  |
| 10;   | 4188.3; | 19-AUG-2008 | 15:15:03; | Bright; | 51.0;   | 6;   | 13Alp Aur | ; 0.08; | 3400;occ;  | 102; | 0;33832  |
| 11;   | 4371.1; | 19-AUG-2008 | 15:18:06; | Bright; | 39.0;   | 107; | 37The Aur | ; 2.65; | 11000;occ; | 78;  | 0;33832  |
| 12;   | 4564.3; | 19-AUG-2008 | 15:21:19; | Dark    | ; 51.5; | 28;  | 12Bet Tau | ; 1.65; | 15200;occ; | 103; | 0;33832  |
| 13;   | 4735.8; | 19-AUG-2008 | 15:24:11; | Dark    | ; 42.5; | 44;  | 24Gam Gem | ; 1.93; | 11000;occ; | 85;  | 0;33832  |
| 14;   | 4957.3; | 19-AUG-2008 | 15:27:52; | Dark    | ; 55.5; | 14;  | 58Alp Ori | ; 0.87; | 3000;occ;  | 111; | 0;33832  |
| 15;   | 5041.8; | 19-AUG-2008 | 15:29:17; | Dark    | ; 57.5; | 27;  | 24Gam Ori | ; 1.64; | 26000;occ; | 115; | 0;33832  |
| 16;   | 5159.0; | 19-AUG-2008 | 15:31:14; | Dark    | ; 52.5; | 30;  | 46Eps Ori | ; 1.69; | 30000;occ; | 105; | 0;33832  |
| 17;   | 5246.3; | 19-AUG-2008 | 15:32:41; | Dark    | ; 43.5; | 125; | 44Iot Ori | ; 2.77; | 30000;occ; | 87;  | 0;33832  |
| 18;   | 5349.7; | 19-AUG-2008 | 15:34:25; | Dark    | ; 61.0; | 7;   | 19Bet Ori | ; 0.10; | 14000;occ; | 122; | 0;33832  |

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22; 6529.3; 19-AUG-2008 15:54:04; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;33832
23; 6880.6; 19-AUG-2008 15:59:55; Dark ; 52.0; 84; Alp Phe ; 2.40; 4500;occ; 104; 0;33832
24; 7070.4; 19-AUG-2008 16:03:05; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;33832
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2; 1598.0; 19-AUG-2008 16:12:29; Bright; 42.0; 142; 49Del Cap ; 2.85; 8900;occ; 84; 0;33833
3; 1799.4; 19-AUG-2008 16:15:50; Bright; 40.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 81; 0;33833
4; 1911.6; 19-AUG-2008 16:17:42; Bright; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;33833
5; 2099.0; 19-AUG-2008 16:20:50; Bright; 42.0; 61; 8Eps Peg ; 2.10; 3900;occ; 84; 0;33833
6; 2493.8; 19-AUG-2008 16:27:25; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;33833
7; 2593.7; 19-AUG-2008 16:29:05; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33833
8; 2686.1; 19-AUG-2008 16:30:37; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;33833
9; 3003.3; 19-AUG-2008 16:35:54; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;33833
10; 3437.4; 19-AUG-2008 16:43:08; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;33833
11; 4188.1; 19-AUG-2008 16:55:39; Bright; 64.0; 6; 13Alp Aur ; 0.08; 3400;occ; 128; 0;33833
12; 4371.1; 19-AUG-2008 16:58:42; Bright; 41.0; 107; 37The Aur ; 2.65; 11000;occ; 82; 0;33833
13; 4564.5; 19-AUG-2008 17:01:55; Dark ; 53.5; 28; 12Bet Tau ; 1.65; 15200;occ; 107; 0;33833
14; 4736.1; 19-AUG-2008 17:04:47; Dark ; 45.5; 44; 24Gam Gem ; 1.93; 11000;occ; 91; 0;33833
15; 4957.8; 19-AUG-2008 17:08:29; Dark ; 57.5; 14; 58Alp Ori ; 0.87; 3000;occ; 115; 0;33833
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 12; 873.2; 22-AUG-2008 07:43:09; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;33871  
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 5; 2489.6; 22-AUG-2008 08:10:06; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;33871  
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 12; 4648.3; 22-AUG-2008 08:46:04; Dark ; 50.5; 151; 13Mu Gem ; 2.89; 3000;occ; 101; 0;33871  
 13; 4746.7; 22-AUG-2008 08:47:43; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;33871  
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7; 2681.6; 22-AUG-2008 11:34:29; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;33873
8; 2994.7; 22-AUG-2008 11:39:42; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33873
9; 3436.6; 22-AUG-2008 11:47:04; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33873
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5; 2489.4; 22-AUG-2008 13:11:53; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;33874
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9; 2994.4; 22-AUG-2008 15:00:54; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;33875
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3; 2030.7; 23-AUG-2008 14:13:13; Bright; 98.5; 61; 8Eps Peg ; 2.10; 3900;occ; 197; 0;33889
4; 2437.9; 23-AUG-2008 14:20:00; Bright; 85.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 171; 0;33889
5; 2634.4; 23-AUG-2008 14:23:17; Bright; 84.0; 144; 18Del Cyg ; 2.86; 11000;occ; 168; 0;33889
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7; 3384.7; 23-AUG-2008 14:35:47; Bright; 85.5; 49; 1Alp UMi ; 1.99; 6300;occ; 171; 0;33889
8; 4158.7; 23-AUG-2008 14:48:41; Bright; 101.0; 42; 34Bet Aur ; 1.90; 10200;occ; 202; 0;33889
9; 4313.7; 23-AUG-2008 14:51:16; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;33889
10; 4384.4; 23-AUG-2008 14:52:27; Bright; 87.0; 24; 66Alp Gem ; 1.58; 10200;occ; 174; 0;33889
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12; 4791.6; 23-AUG-2008 14:59:14; Dark ; 88.0; 153; 3Bet CMi ; 2.89; 13100;occ; 176; 0;33889
13; 5259.7; 23-AUG-2008 15:07:02; Dark ; 99.5; 1; 9Alp CMA ; -1.44; 11000;occ; 199; 0;33889
14; 5437.4; 23-AUG-2008 15:10:00; Dark ; 94.0; 23; 21Eps CMA ; 1.50; 26000;occ; 188; 0;33889
15; 5677.2; 23-AUG-2008 15:14:00; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33889
16; 6567.1; 23-AUG-2008 15:28:49; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;33889
17; 6871.6; 23-AUG-2008 15:33:54; Dark ; 37.0; 148; Alp Tuc ; 2.88; 4100;occ; 74; 0;33889
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3; 1800.5; 23-AUG-2008 15:49:59; Bright; 39.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 79; 0;33890
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8; 2680.2; 23-AUG-2008 16:04:38; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;33890
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12; 4436.0; 23-AUG-2008 16:33:54; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;33890
13; 4653.3; 23-AUG-2008 16:37:32; Dark ; 50.5; 151; 13Mu Gem ; 2.89; 3000;occ; 101; 0;33890
14; 4752.6; 23-AUG-2008 16:39:11; Dark ; 44.5; 44; 24Gam Gem ; 1.93; 11000;occ; 89; 0;33890
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19; 5569.4; 23-AUG-2008 16:52:48; Dark ; 40.0; 177; 1Zet CMA ; 3.02; 26000;occ; 80; 0;33890
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23; 6872.0; 23-AUG-2008 17:14:30; Dark ; 44.5; 148; Alp Tuc ; 2.88; 4100;occ; 89; 0;33890
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5; 1903.4; 23-AUG-2008 17:32:18; Bright; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;33891
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13; 4436.1; 23-AUG-2008 18:14:30; Bright; 34.5; 24; 66Alp Gem ; 1.58; 10200;occ; 69; 0;33891  
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19; 5489.4; 23-AUG-2008 18:32:04; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;33891  
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22; 5898.9; 23-AUG-2008 18:38:53; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;33891  
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9; 2679.9; 23-AUG-2008 19:25:50; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;33892  
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12; 4217.8; 23-AUG-2008 19:51:28; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;33892  
13; 4436.2; 23-AUG-2008 19:55:06; Bright; 35.0; 24; 66Alp Gem ; 1.58; 10200;occ; 70; 0;33892  
14; 4653.8; 23-AUG-2008 19:58:44; Dark ; 54.0; 151; 13Mu Gem ; 2.89; 3000;occ; 108; 0;33892  
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13; 1902.7; 24-AUG-2008 01:55:16; Bright; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;33896  
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 11; 1317.8; 28-AUG-2008 21:26:50; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;33965  
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 21; 4446.7; 28-AUG-2008 22:18:59; Bright; 35.0; 24; 66Alp Gem ; 1.58; 10200;occ; 70; 0;33965  
 22; 4602.6; 28-AUG-2008 22:21:35; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;33965  
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 9; 1074.4; 28-AUG-2008 23:03:23; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;33966  
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13; 4446.5; 28-AUG-2008 18:57:47; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;33963
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14; 5539.2; 31-AUG-2008 16:00:32; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0;34004
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13; 5374.3; 31-AUG-2008 17:38:23; Dark ; 53.5; 1; 9Alp CMa ; -1.44; 11000;occ; 107; 0;34005
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