

# GOMOS Daily Report 29-APR-2006

## Level 0 and Level 1 products

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### 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 | 01MAY2006 04:34:00 |

|                         |   |
|-------------------------|---|
| Data source version     | GOMOS/4.02                                    |
| Start time of products  | QDS_YESTERDAY(/START)-1D (29APR2006 00:00:00) |
| Stop time of products   | QDS_YESTERDAY(/STOP)-1D (30APR2006 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)

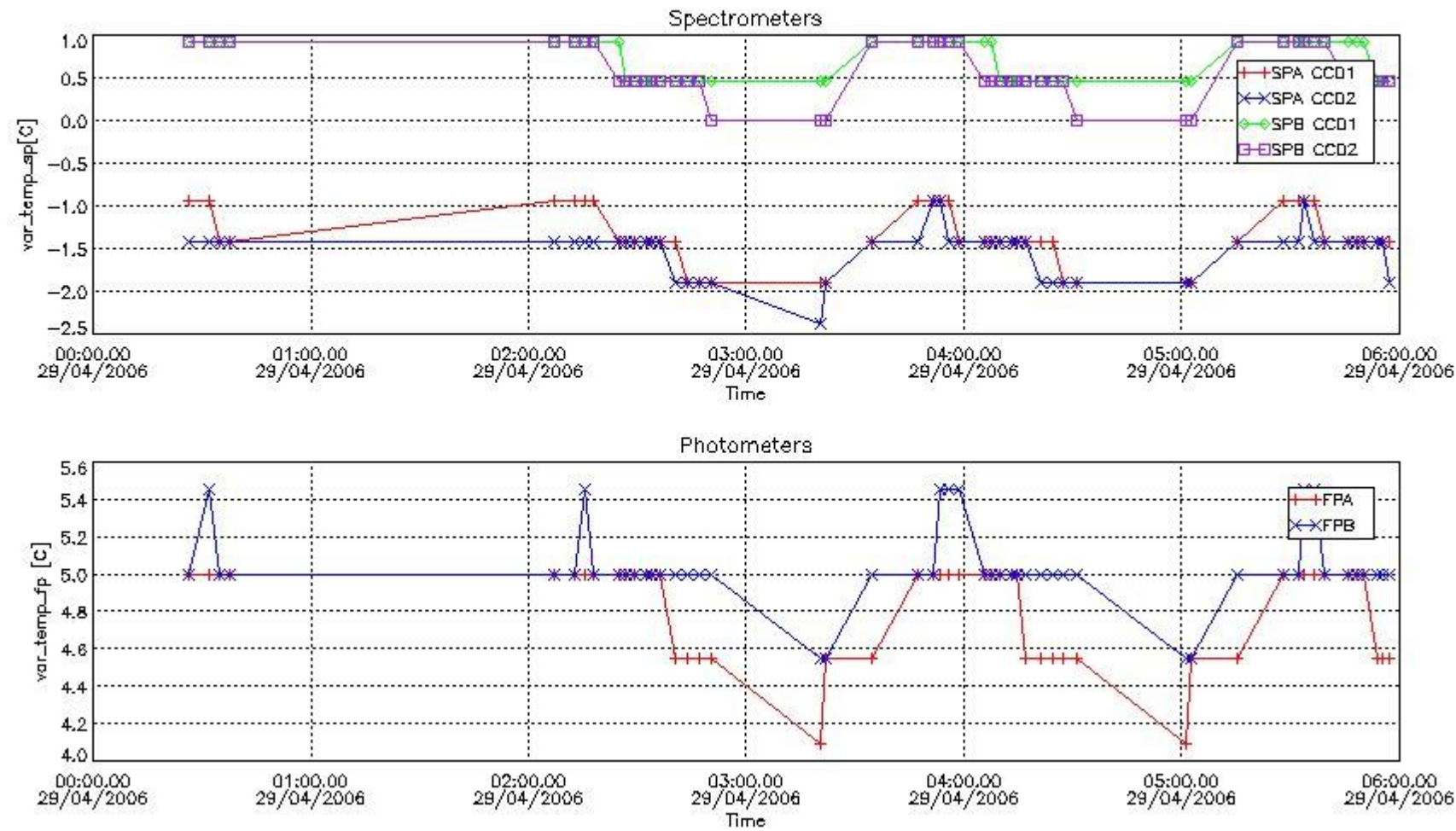
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20060429_002618_000000432047_00159_21756_0000.N1 | 29-APR-2006 00:26:18 | Dark     | 43.000   | 18      | 24Alp PsA | 1.1660    | 9700.0    | 86      | 21756 | No          |
| 2  | GOM_TRA_1PNPDE20060429_003202_000000422047_00159_21756_0001.N1 | 29-APR-2006 00:32:02 | Dark     | 41.500   | 31      | Alp Gru   | 1.7340    | 15200.    | 83      | 21756 | No          |
| 3  | GOM_TRA_1PNPDE20060429_003445_000000412047_00160_21757_0002.N1 | 29-APR-2006 00:34:45 | Dark     | 40.500   | 148     | Alp Tuc   | 2.8780    | 4100.0    | 81      | 21757 | No          |
| 4  | GOM_TRA_1PNPDE20060429_003728_000000422047_00160_21757_0003.N1 | 29-APR-2006 00:37:28 | Dark     | 41.500   | 45      | Alp Pav   | 1.9400    | 26000.    | 83      | 21757 | No          |
| 5  | GOM_TRA_1PNPDE20060429_020654_000000452047_00160_21757_0000.N1 | 29-APR-2006 02:06:54 | Dark     | 45.000   | 18      | 24Alp PsA | 1.1660    | 9700.0    | 90      | 21757 | No          |
| 6  | GOM_TRA_1PNPDE20060429_021239_000000432047_00160_21757_0001.N1 | 29-APR-2006 02:12:39 | Dark     | 43.000   | 31      | Alp Gru   | 1.7340    | 15200.    | 86      | 21757 | No          |
| 7  | GOM_TRA_1PNPDE20060429_021522_000000452047_00161_21758_0002.N1 | 29-APR-2006 02:15:22 | Dark     | 44.500   | 148     | Alp Tuc   | 2.8780    | 4100.0    | 89      | 21758 | No          |
| 8  | GOM_TRA_1PNPDE20060429_021804_000000412047_00161_21758_0003.N1 | 29-APR-2006 02:18:04 | Dark     | 41.000   | 45      | Alp Pav   | 1.9400    | 26000.    | 82      | 21758 | No          |
| 9  | GOM_TRA_1PNPDE20060429_022449_000000392047_00161_21758_0004.N1 | 29-APR-2006 02:24:49 | Dark     | 39.000   | 43      | Alp TrA   | 1.9100    | 4250.0    | 78      | 21758 | No          |
| 10 | GOM_TRA_1PNPDE20060429_022700_000000402047_00161_21758_0005.N1 | 29-APR-2006 02:27:00 | Dark     | 40.000   | 134     | Bet TrA   | 2.8100    | 6600.0    | 80      | 21758 | No          |
| 11 | GOM_TRA_1PNPDE20060429_022907_000000442047_00161_21758_0006.N1 | 29-APR-2006 02:29:07 | Twilight | 43.500   | 4       | Alp1Cen   | -0.010000 | 5800.0    | 87      | 21758 | No          |
| 12 | GOM_TRA_1PNPDE20060429_023230_000000432047_00161_21758_0007.N1 | 29-APR-2006 02:32:30 | Bright   | 42.500   | 78      | Alp Lup   | 2.3040    | 28000.    | 85      | 21758 | No          |
| 13 | GOM_TRA_1PNPDE20060429_023403_000000432047_00161_21758_0008.N1 | 29-APR-2006 02:34:03 | Bright   | 42.500   | 81      | Eta Cen   | 2.3560    | 28000.    | 85      | 21758 | No          |
| 14 | GOM_TRA_1PNPDE20060429_023611_000000432047_00161_21758_0009.N1 | 29-APR-2006 02:36:11 | Bright   | 43.000   | 54      | 5The Cen  | 2.0550    | 4500.0    | 86      | 21758 | No          |
| 15 | GOM_TRA_1PNPDE20060429_024030_000000522047_00161_21758_0010.N1 | 29-APR-2006 02:40:30 | Bright   | 52.000   | 169     | 46Gam Hya | 2.9910    | 4700.0    | 104     | 21758 | No          |
| 16 | GOM_TRA_1PNPDE20060429_024351_000000382047_00161_21758_0011.N1 | 29-APR-2006 02:43:51 | Bright   | 37.500   | 15      | 67Alp Vir | 0.97600   | 28000.    | 75      | 21758 | No          |
| 17 | GOM_TRA_1PNPDE20060429_024654_000000362047_00161_21758_0012.N1 | 29-APR-2006 02:46:54 | Bright   | 36.000   | 121     | 29Gam Vir | 2.7400    | 7200.0    | 72      | 21758 | No          |
| 18 | GOM_TRA_1PNPDE20060429_025016_000000362047_00161_21758_0013.N1 | 29-APR-2006 02:50:16 | Bright   | 35.500   | 138     | 47Eps Vir | 2.8280    | 4700.0    | 71      | 21758 | No          |
| 19 | GOM_TRA_1PNPDE20060429_032036_000000332047_00161_21758_0000.N1 | 29-APR-2006 03:20:36 | Bright   | 33.000   | 110     | 37Del Cas | 2.6780    | 8900.0    | 66      | 21758 | No          |
| 20 | GOM_TRA_1PNPDE20060429_032200_000000342047_00161_21758_0001.N1 | 29-APR-2006 03:22:00 | Bright   | 33.500   | 68      | 18Alp Cas | 2.2250    | 4500.0    | 67      | 21758 | No          |
| 21 | GOM_TRA_1PNPDE20060429_033447_000000452047_00161_21758_0002.N1 | 29-APR-2006 03:34:47 | Twilight | 44.500   | 90      | 54Alp Peg | 2.4870    | 11000.    | 89      | 21758 | No          |
| 22 | GOM_TRA_1PNPDE20060429_034731_000000452047_00161_21758_0003.N1 | 29-APR-2006 03:47:31 | Dark     | 45.000   | 18      | 24Alp PsA | 1.1660    | 9700.0    | 90      | 21758 | No          |
| 23 | GOM_TRA_1PNPDE20060429_035139_000000422047_00161_21758_0004.N1 | 29-APR-2006 03:51:39 | Dark     | 41.500   | 172     | Gam Gru   | 3.0030    | 13100.    | 83      | 21758 | No          |
| 24 | GOM_TRA_1PNPDE20060429_035315_000000422047_00161_21758_0005.N1 | 29-APR-2006 03:53:15 | Dark     | 41.500   | 31      | Alp Gru   | 1.7340    | 15200.    | 83      | 21758 | No          |
| 25 | GOM_TRA_1PNPDE20060429_035558_000000412047_00162_21759_0006.N1 | 29-APR-2006 03:55:58 | Dark     | 40.500   | 148     | Alp Tuc   | 2.8780    | 4100.0    | 81      | 21759 | No          |
| 26 | GOM_TRA_1PNPDE20060429_035841_000000412047_00162_21759_0007.N1 | 29-APR-2006 03:58:41 | Dark     | 40.500   | 45      | Alp Pav   | 1.9400    | 26000.    | 81      | 21759 | No          |
| 27 | GOM_TRA_1PNPDE20060429_040525_000000482047_00162_21759_0008.N1 | 29-APR-2006 04:05:25 | Dark     | 48.000   | 43      | Alp TrA   | 1.9100    | 4250.0    | 96      | 21759 | No          |
| 28 | GOM_TRA_1PNPDE20060429_040737_000000382047_00162_21759_0009.N1 | 29-APR-2006 04:07:37 | Dark     | 37.500   | 134     | Bet TrA   | 2.8100    | 6600.0    | 75      | 21759 | No          |
| 29 | GOM_TRA_1PNPDE20060429_040943_000000422047_00162_21759_0010.N1 | 29-APR-2006 04:09:43 | Twilight | 42.000   | 4       | Alp1Cen   | -0.010000 | 5800.0    | 84      | 21759 | No          |
| 30 | GOM_TRA_1PNPDE20060429_041307_000000422047_00162_21759_0011.N1 | 29-APR-2006 04:13:07 | Bright   | 42.000   | 78      | Alp Lup   | 2.3040    | 28000.    | 84      | 21759 | No          |
| 31 | GOM_TRA_1PNPDE20060429_041440_000000422047_00162_21759_0012.N1 | 29-APR-2006 04:14:40 | Bright   | 41.500   | 81      | Eta Cen   | 2.3560    | 28000.    | 83      | 21759 | No          |
| 32 | GOM_TRA_1PNPDE20060429_041647_000000442047_00162_21759_0013.N1 | 29-APR-2006 04:16:47 | Bright   | 43.500   | 54      | 5The Cen  | 2.0550    | 4500.0    | 87      | 21759 | No          |
| 33 | GOM_TRA_1PNPDE20060429_042106_000000432047_00162_21759_0014.N1 | 29-APR-2006 04:21:06 | Bright   | 42.500   | 169     | 46Gam Hya | 2.9910    | 4700.0    | 85      | 21759 | No          |
| 34 | GOM_TRA_1PNPDE20060429_042427_000000392047_00162_21759_0015.N1 | 29-APR-2006 04:24:27 | Bright   | 38.500   | 15      | 67Alp Vir | 0.97600   | 28000.    | 77      | 21759 | No          |
| 35 | GOM_TRA_1PNPDE20060429_042731_000000362047_00162_21759_0016.N1 | 29-APR-2006 04:27:31 | Bright   | 35.500   | 121     | 29Gam Vir | 2.7400    | 7200.0    | 71      | 21759 | No          |
| 36 | GOM_TRA_1PNPDE20060429_043052_000000362047_00162_21759_0017.N1 | 29-APR-2006 04:30:52 | Bright   | 35.500   | 138     | 47Eps Vir | 2.8280    | 4700.0    | 71      | 21759 | No          |
| 37 | GOM_TRA_1PNPDE20060429_050112_000000442047_00162_21759_0000.N1 | 29-APR-2006 05:01:12 | Bright   | 44.000   | 110     | 37Del Cas | 2.6780    | 8900.0    | 88      | 21759 | No          |
| 38 | GOM_TRA_1PNPDE20060429_050236_000000342047_00162_21759_0001.N1 | 29-APR-2006 05:02:36 | Bright   | 34.000   | 68      | 18Alp Cas | 2.2250    | 4500.0    | 68      | 21759 | No          |
| 39 | GOM_TRA_1PNPDE20060429_051524_000000432047_00162_21759_0002.N1 | 29-APR-2006 05:15:24 | Twilight | 43.000   | 90      | 54Alp Peg | 2.4870    | 11000.    | 86      | 21759 | No          |
| 40 | GOM_TRA_1PNPDE20060429_052807_000000442047_00162_21759_0003.N1 | 29-APR-2006 05:28:07 | Dark     | 43.500   | 18      | 24Alp PsA | 1.1660    | 9700.0    | 87      | 21759 | No          |
| 41 | GOM_TRA_1PNPDE20060429_053215_000000422047_00162_21759_0004.N1 | 29-APR-2006 05:32:15 | Dark     | 41.500   | 172     | Gam Gru   | 3.0030    | 13100.    | 83      | 21759 | No          |
| 42 | GOM_TRA_1PNPDE20060429_053352_000000412047_00162_21759_0005.N1 | 29-APR-2006 05:33:52 | Dark     | 41.000   | 31      | Alp Gru   | 1.7340    | 15200.    | 82      | 21759 | No          |
| 43 | GOM_TRA_1PNPDE20060429_053634_000000402047_00163_21760_0006.N1 | 29-APR-2006 05:36:34 | Dark     | 39.500   | 148     | Alp Tuc   | 2.8780    | 4100.0    | 79      | 21760 | No          |
| 44 | GOM_TRA_1PNPDE20060429_053918_000000412047_00163_21760_0007.N1 | 29-APR-2006 05:39:18 | Dark     | 40.500   | 45      | Alp Pav   | 1.9400    | 26000.    | 81      | 21760 | No          |
| 45 | GOM_TRA_1PNPDE20060429_054602_000000392047_00163_21760_0008.N1 | 29-APR-2006 05:46:02 | Dark     | 39.000   | 43      | Alp TrA   | 1.9100    | 4250.0    | 78      | 21760 | No          |
| 46 | GOM_TRA_1PNPDE20060429_054813_000000382047_00163_21760_0009.N1 | 29-APR-2006 05:48:13 | Dark     | 37.500   | 134     | Bet TrA   | 2.8100    | 6600.0    | 75      | 21760 | No          |

|    |  |                      |          |        |    |          |           |        |     |       |    |
|----|--|----------------------|----------|--------|----|----------|-----------|--------|-----|-------|----|
| 47 | GOM_TRA_1PNPDE20060429_055019_00000522047_00163_21760_0010.N1  | 29-APR-2006 05:50:19 | Twilight | 51.500 | 4  | Alp1Cen  | -0.010000 | 5800.0 | 103 | 21760 | No |
| 48 | GOM_TRA_1PNPDE20060429_055343_000000402047_00163_21760_0011.N1 | 29-APR-2006 05:53:43 | Bright   | 40.000 | 78 | Alp Lup  | 2.3040    | 28000. | 80  | 21760 | No |
| 49 | GOM_TRA_1PNPDE20060429_055516_000000412047_00163_21760_0012.N1 | 29-APR-2006 05:55:16 | Bright   | 40.500 | 81 | Eta Cen  | 2.3560    | 28000. | 81  | 21760 | No |
| 50 | GOM_TRA_1PNPDE20060429_055723_000000452047_00163_21760_0013.N1 | 29-APR-2006 05:57:23 | Bright   | 44.500 | 54 | 5The Cen | 2.0550    | 4500.0 | 89  | 21760 | No |

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



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

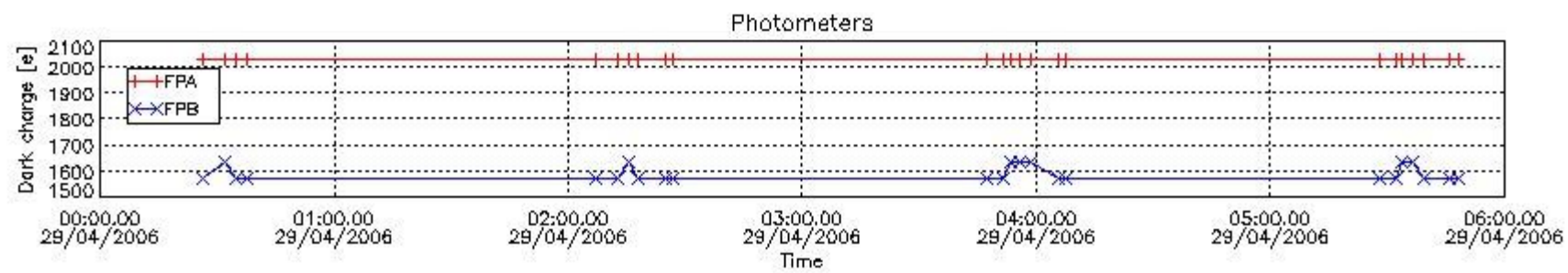
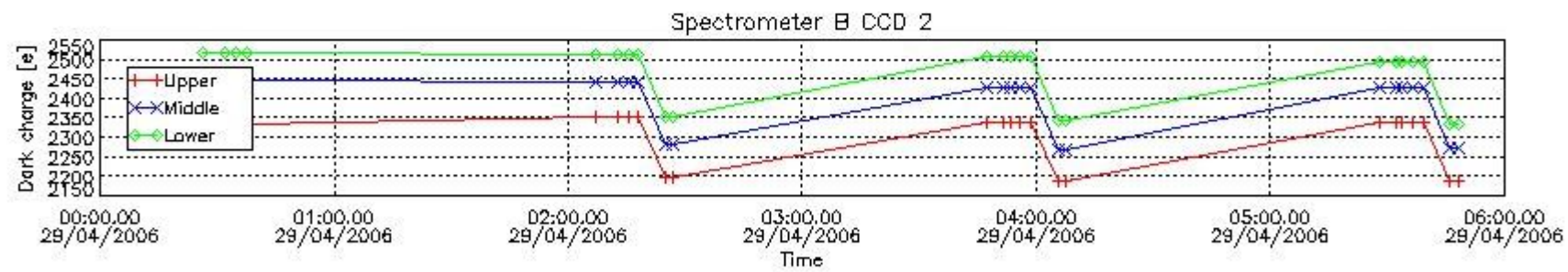
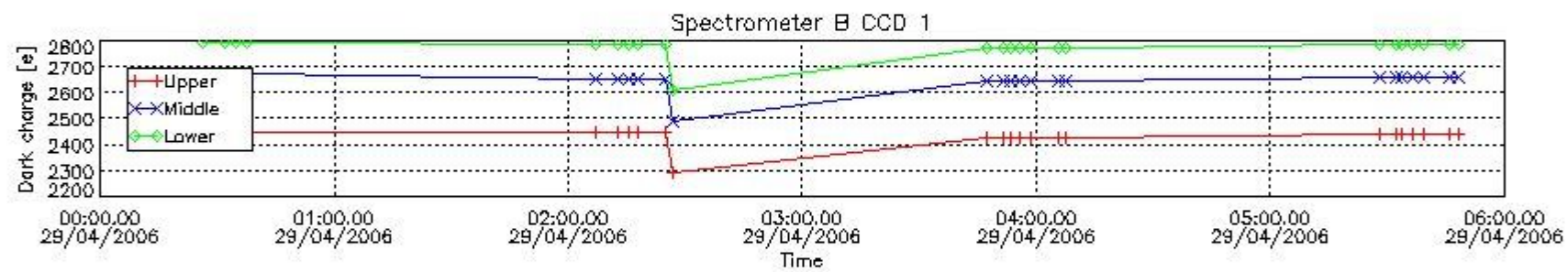
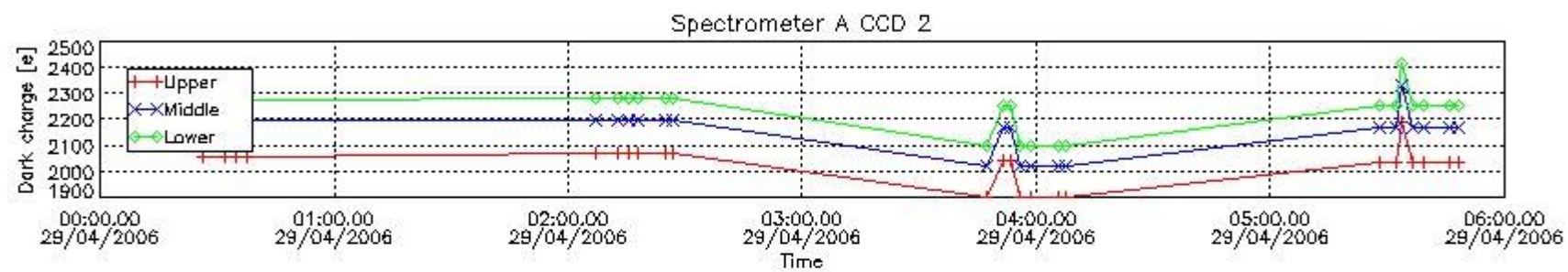
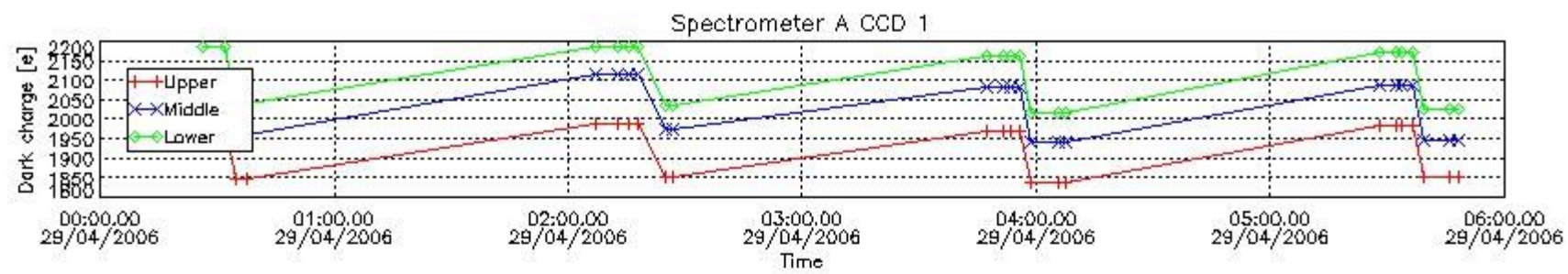
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

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

#### 4.1 All products used the DSA observation for the DC computation

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





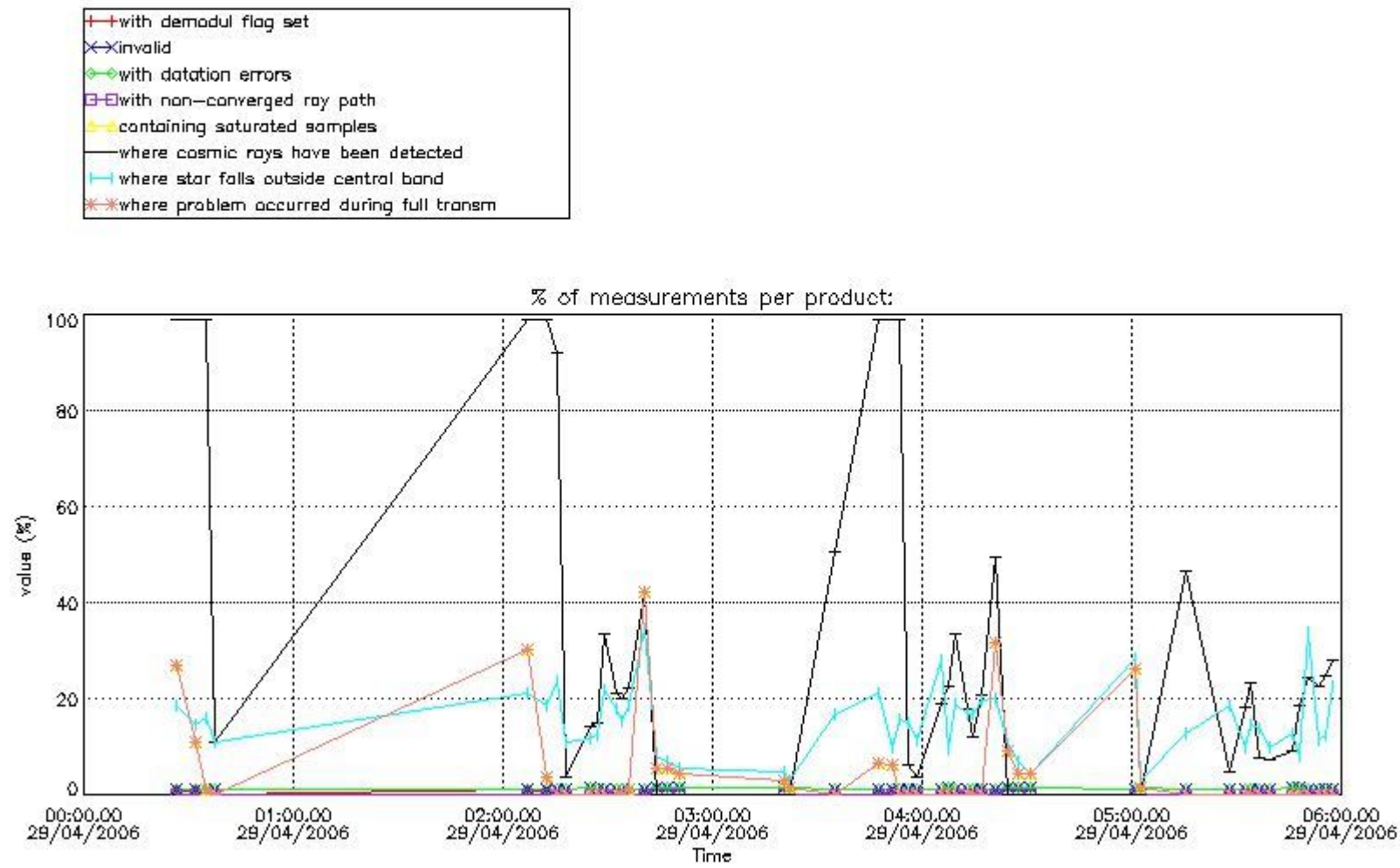
## 5. Demodulation flag and quality information monitoring

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

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

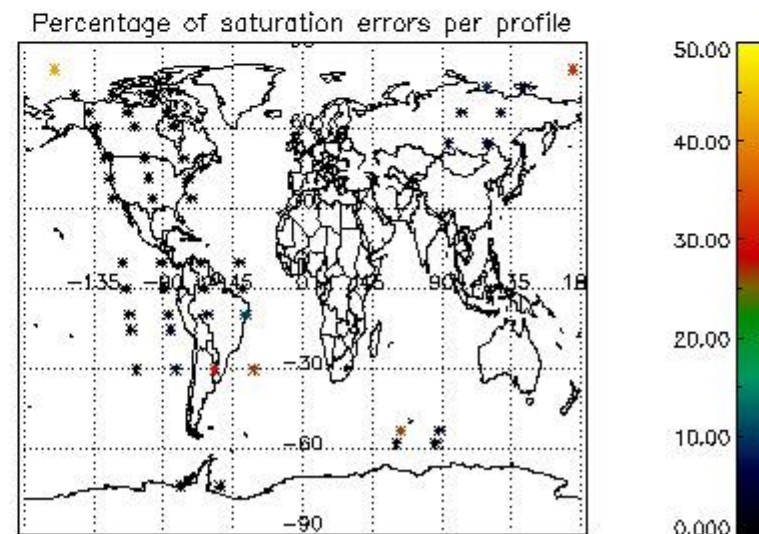
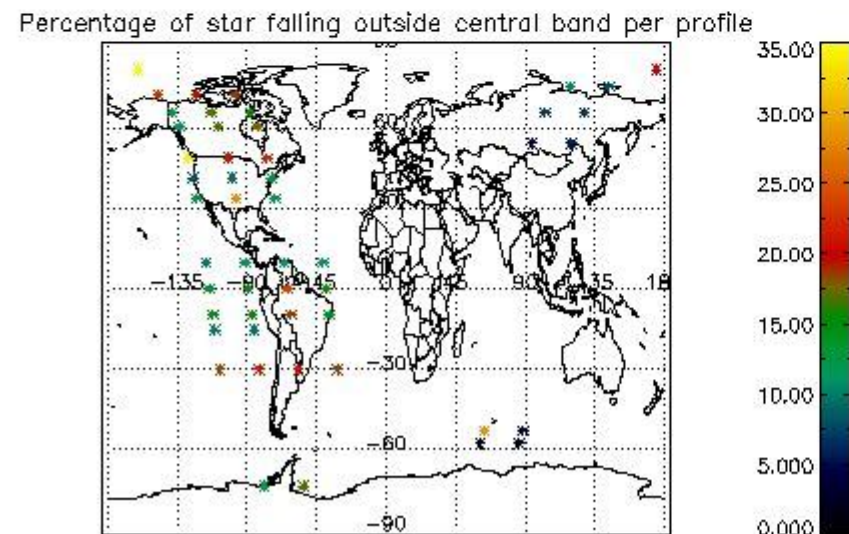
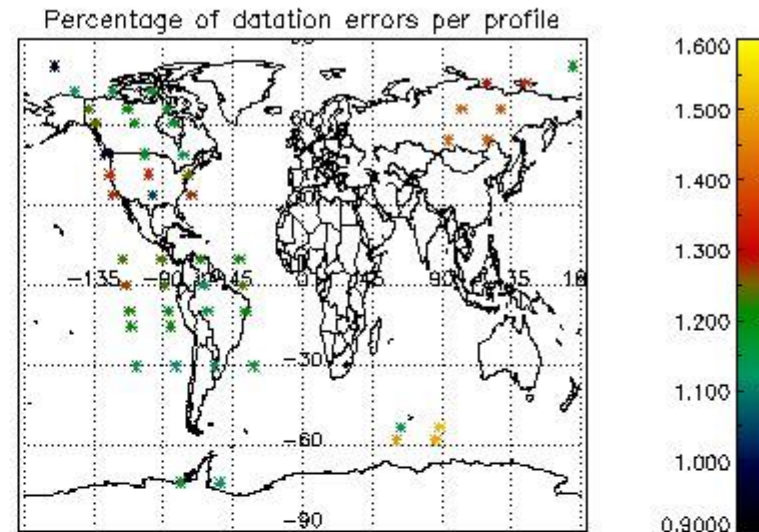
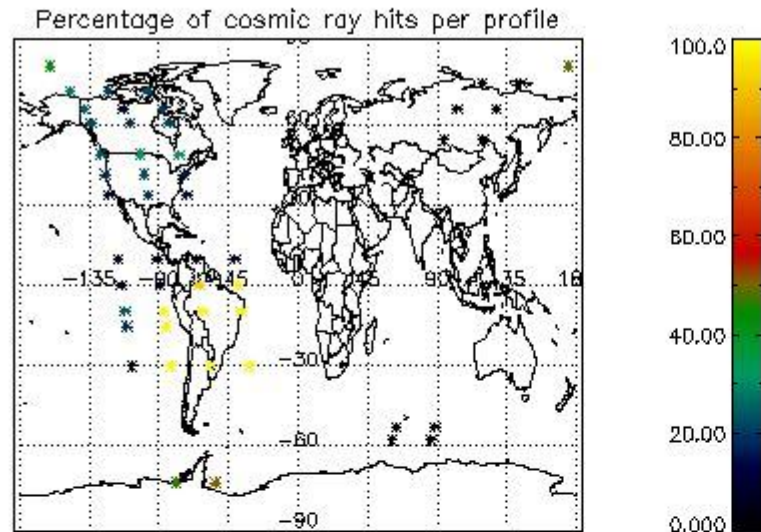
|   |           |
|---|-----------|
| At least one measurement with demodulation flag set:  | 24.0000 % |
| Reference spectrum computed from DB:                  | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used:                                   | 0.00000 % |

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





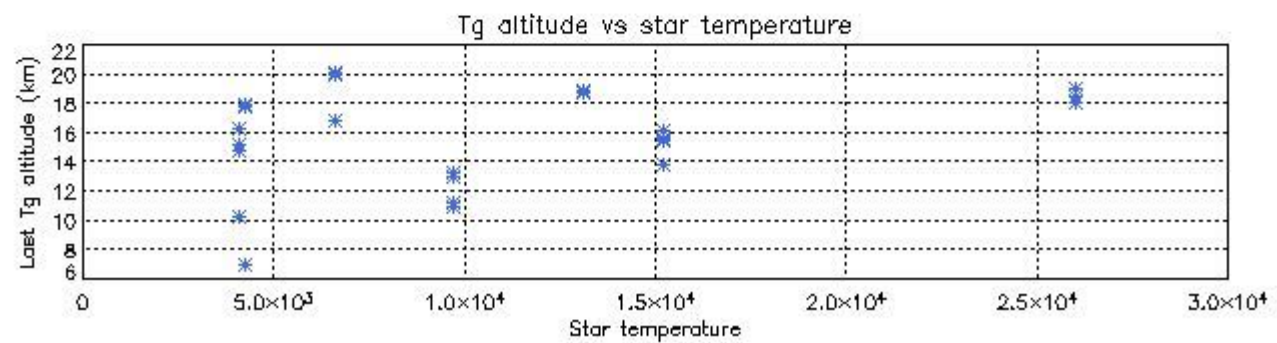
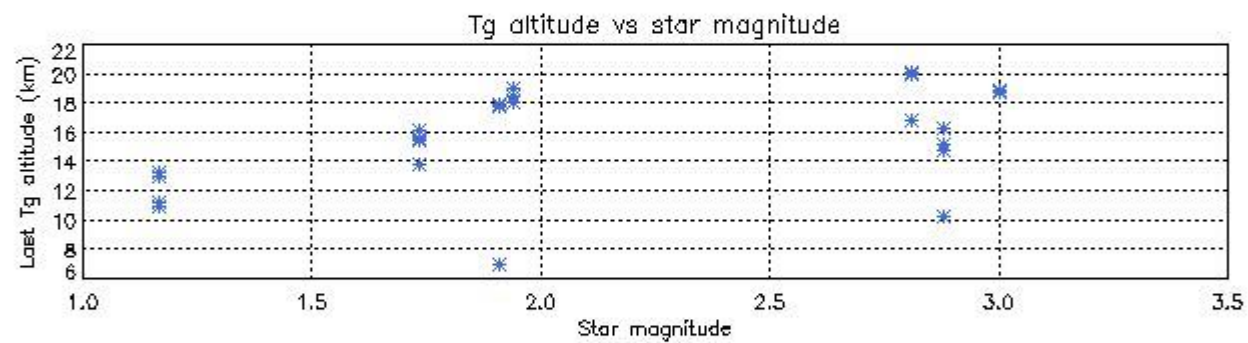
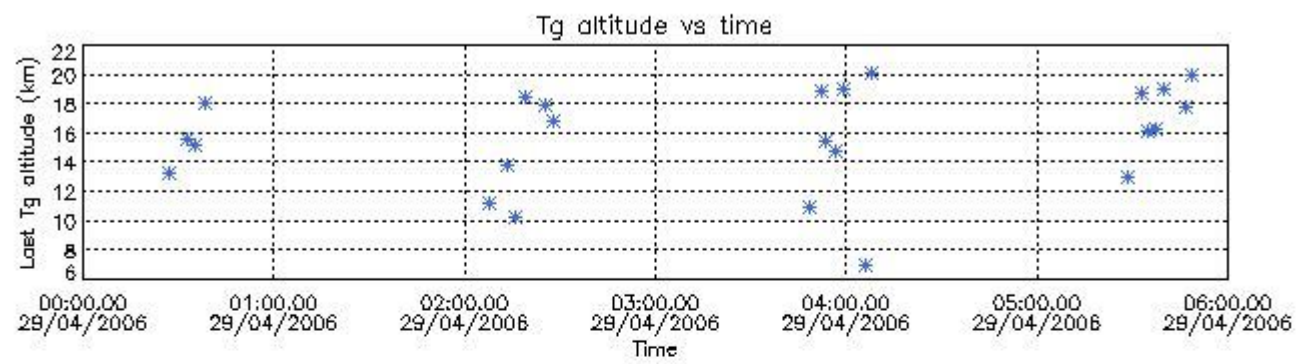
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

| Statistics      | DARK   | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean:           | 15.714 | 16.459 | 11.246   |
| St. deviation:  | 3.4298 | 5.4477 | 4.1143   |
| Maximum:        | 20.052 | 25.909 | 14.502   |
| Minimum:        | 7.0006 | 4.2683 | 4.1065   |
| Number of data: | 24.000 | 21.000 | 5.0000   |

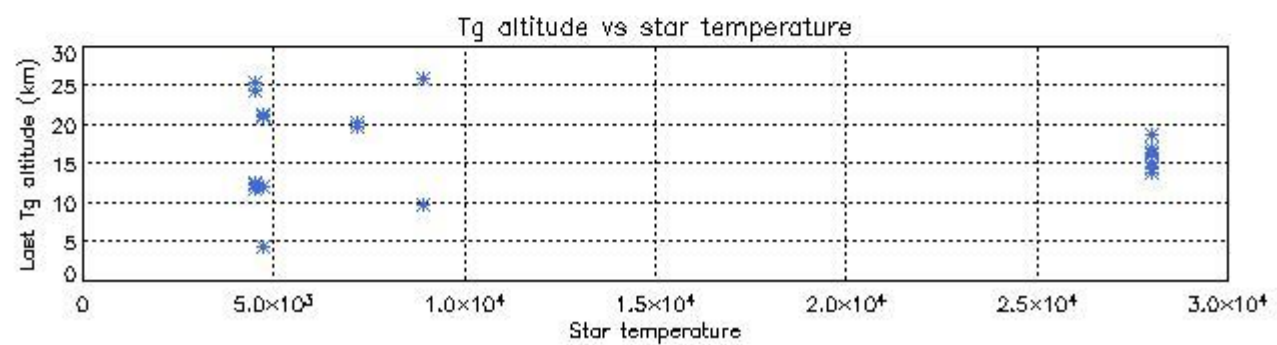
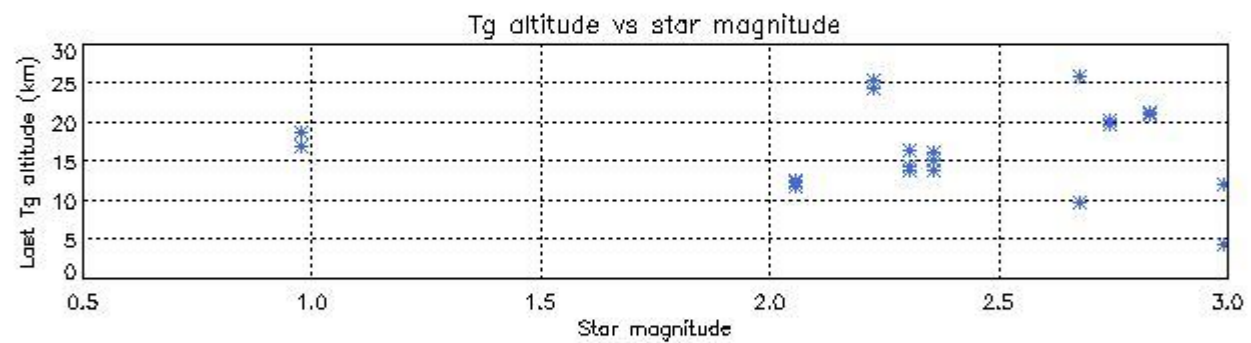
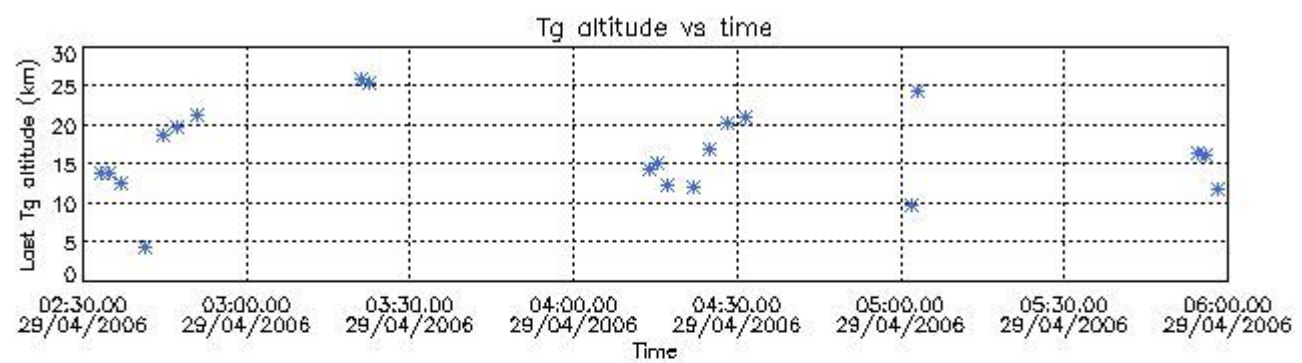
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

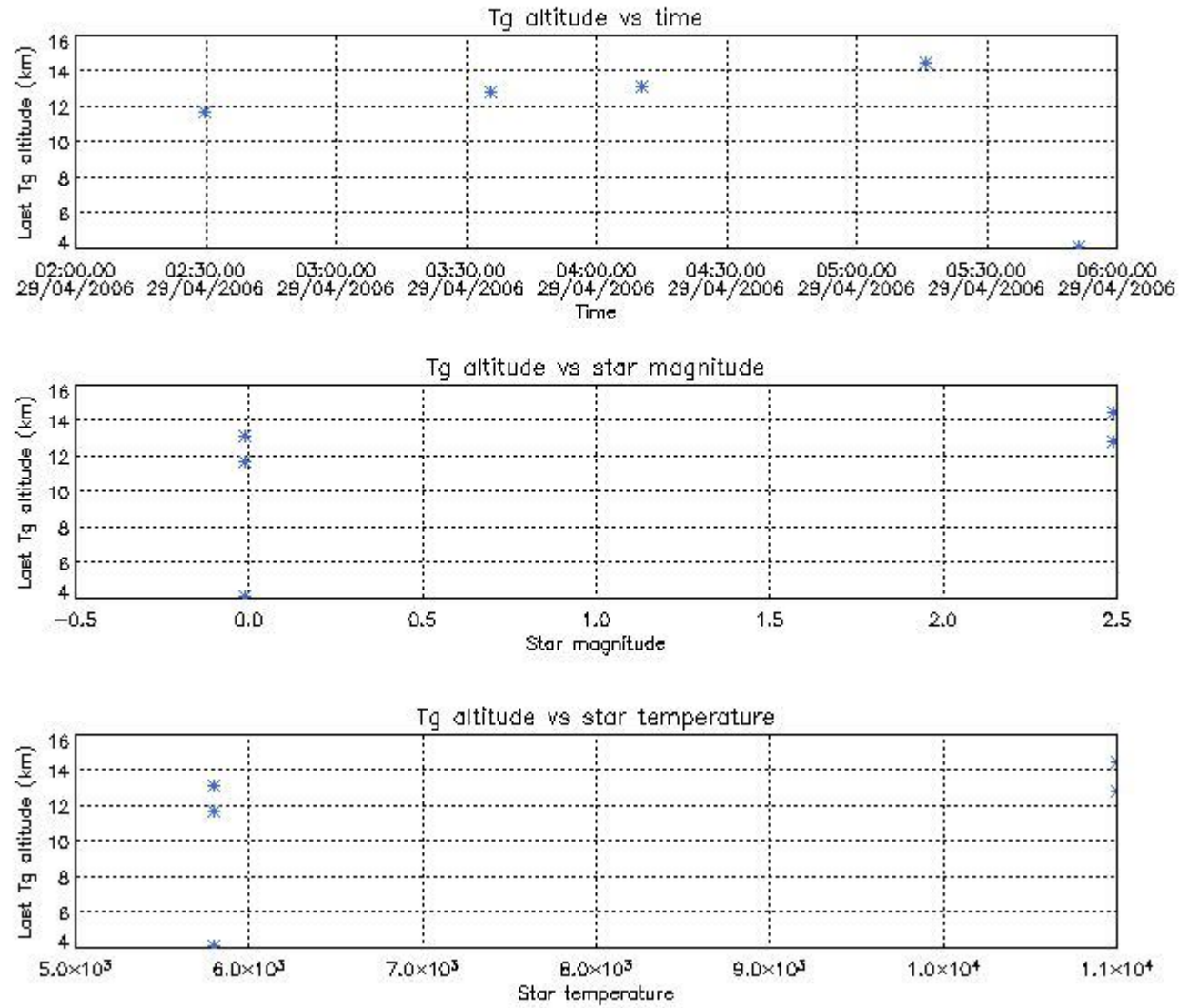
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



## Tangent altitude at which the star is lost



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

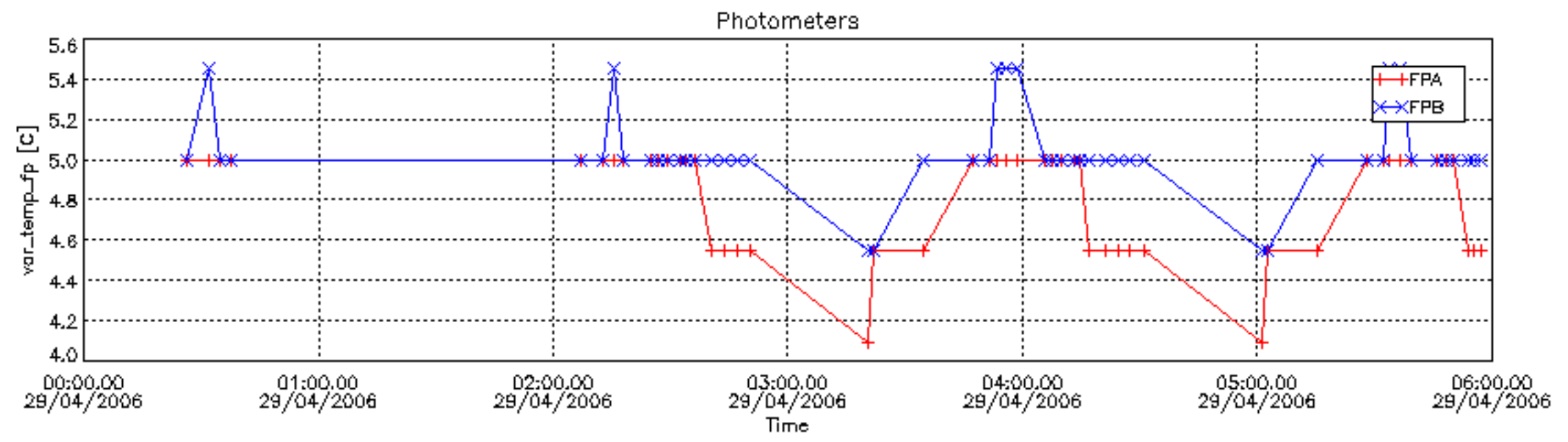
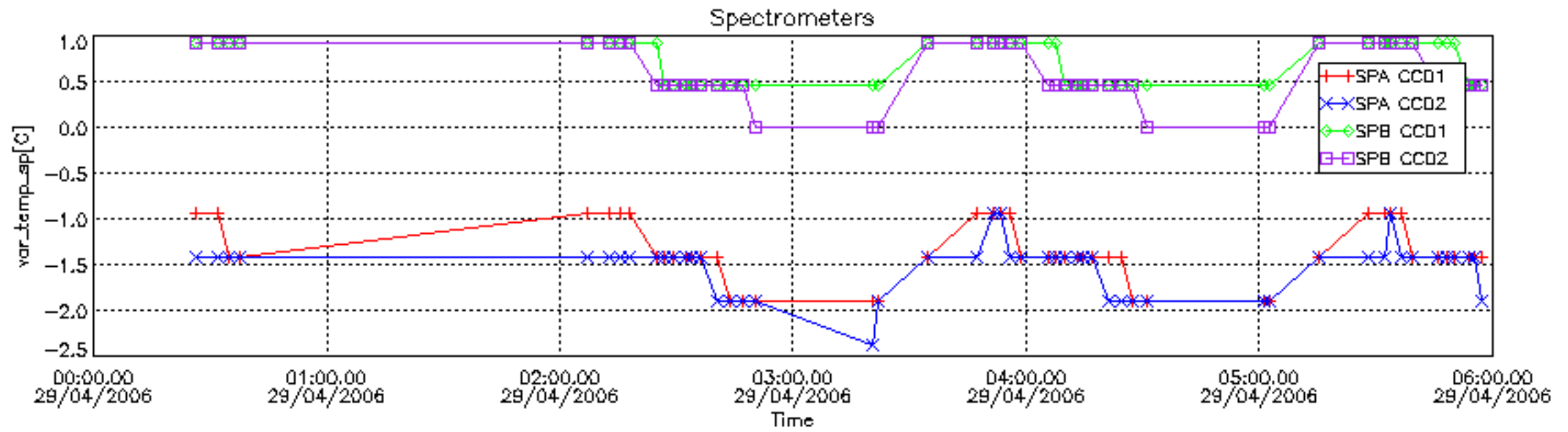
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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.

| Statistics      | SATU X (D) | SATU Y (D) | SATU X (B) | SATU Y (B) |
|-----------------|------------|------------|------------|------------|
| Mean:           | 1460.8     | 1447.7     | 1460.4     | 1447.2     |
| St. deviation:  | 5.3972     | 19.878     | 7.4021     | 18.885     |
| Maximum:        | 1504.0     | 1629.0     | 1501.0     | 1535.0     |
| Minimum:        | 1426.0     | 1396.0     | 1452.0     | 1362.0     |
| Number of data: | 21700.     | 21700.     | 17500.     | 17500.     |

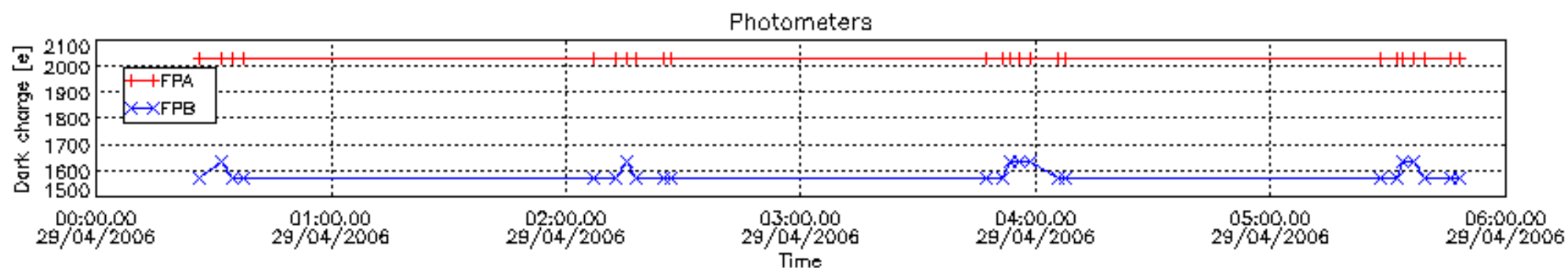
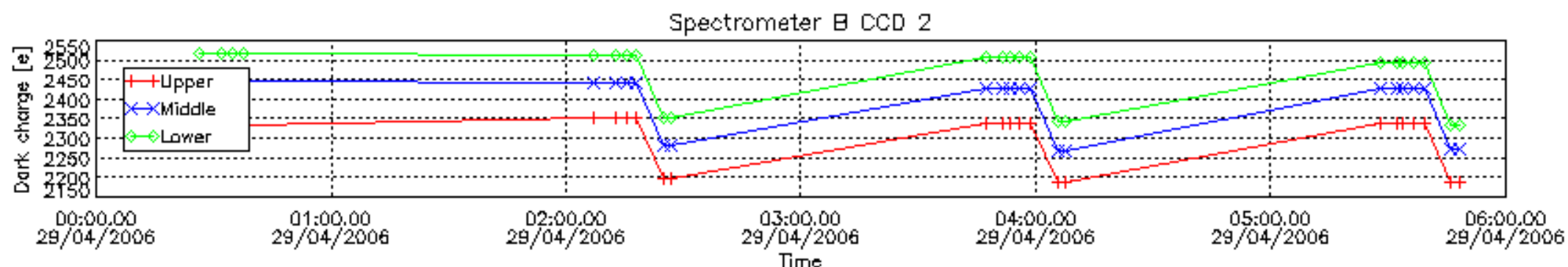
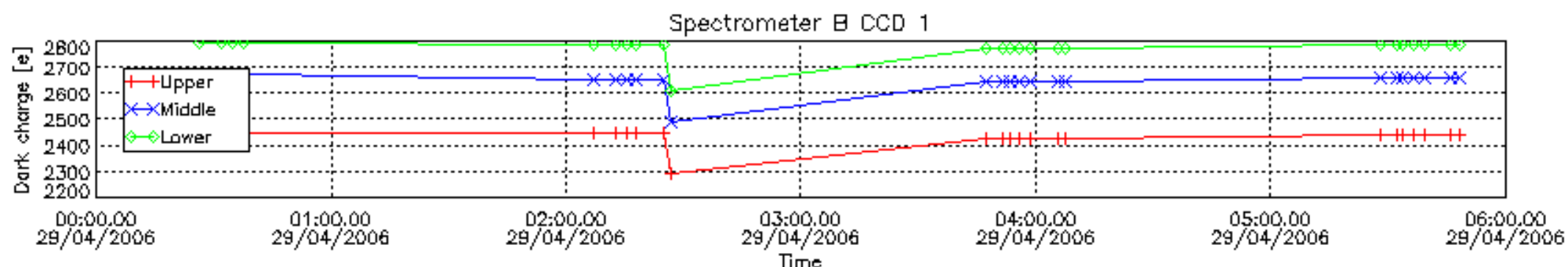
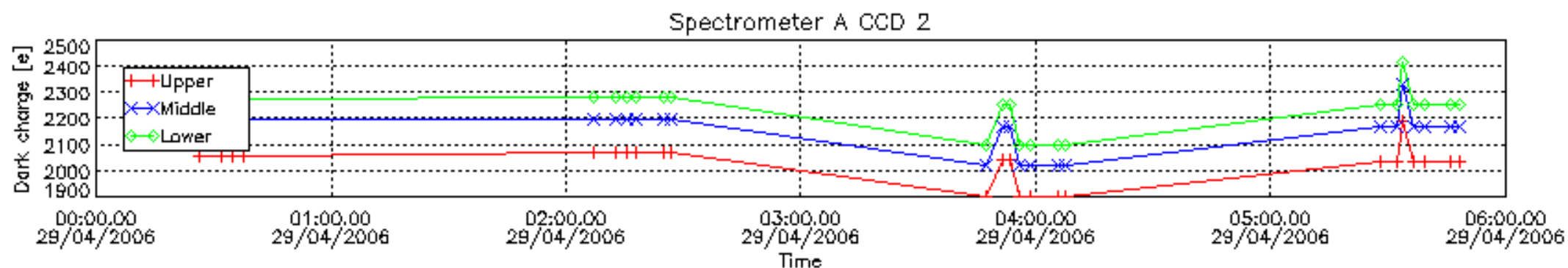
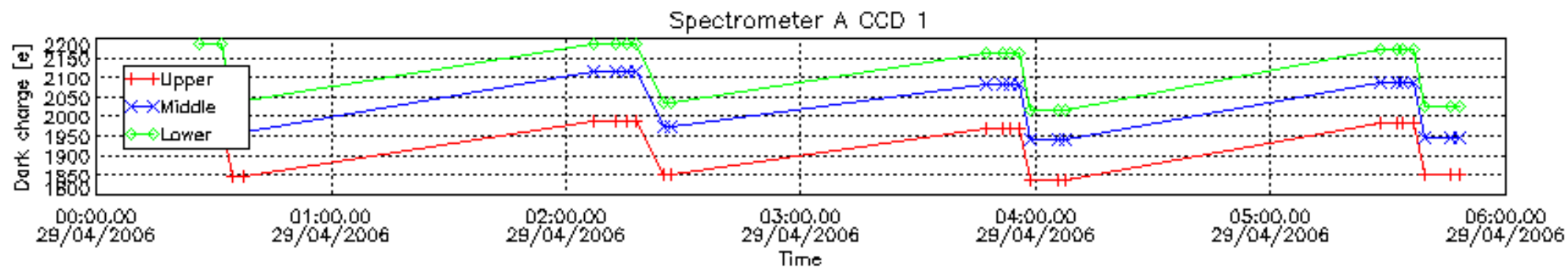
## 8. Auxiliary Data Files used for the production reported in section 2.2

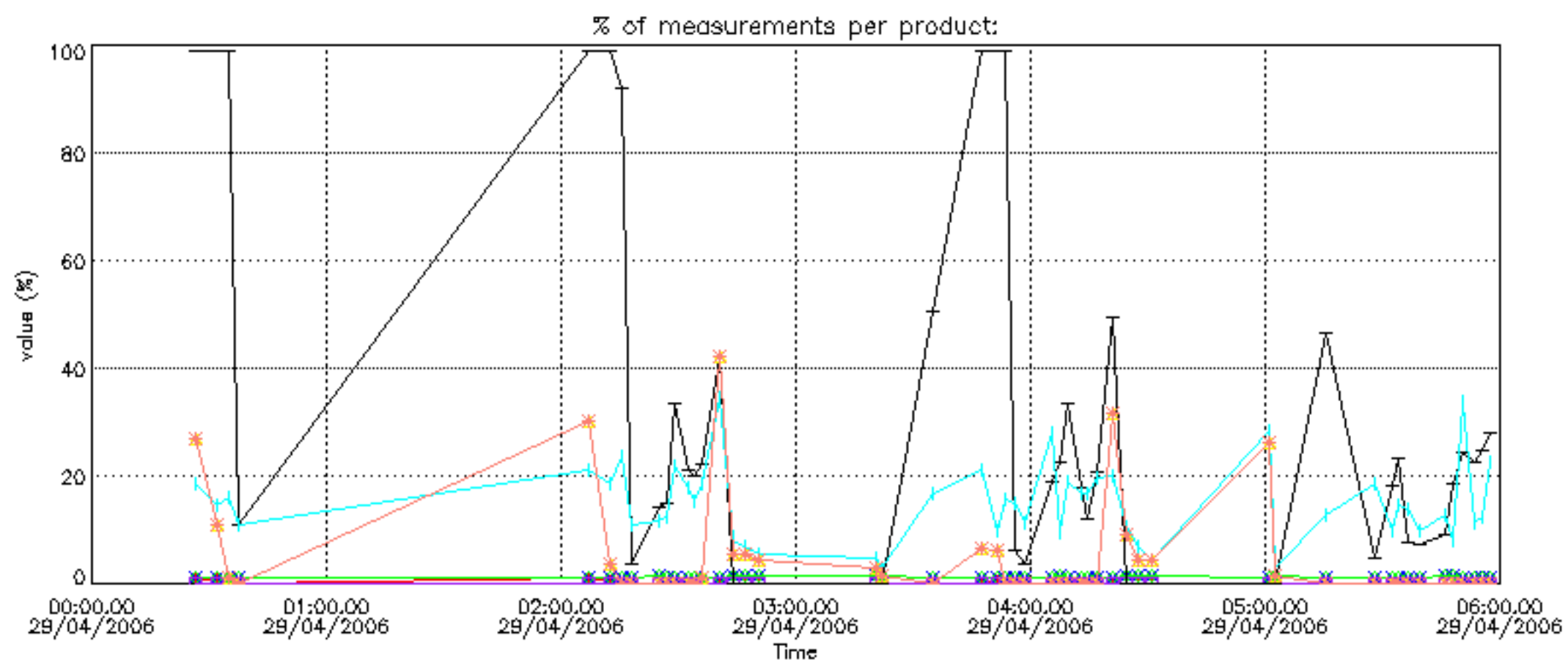
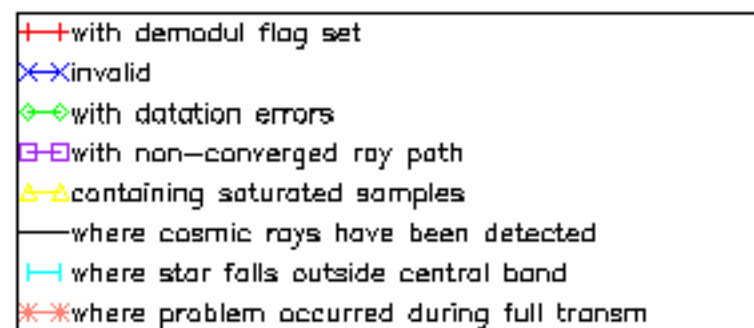
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

| Type                      | Auxiliary Filename   | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000  | 1                  | 29-APR-2006 00:26:18    |
| CALIBRATION_DATABASE      | GOM_CAL_AXVIEC20060421_071427_20060419_000000_20100101_000000  | 1                  | 29-APR-2006 00:26:18    |
| LEVEL-1B_PROC_CONFIG      | GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000  | 1                  | 29-APR-2006 00:26:18    |
| STAR_CATALOGUE            | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000  | 1                  | 29-APR-2006 00:26:18    |
| STELLAR_SPECTRA_DATABANK  | GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000  | 1                  | 29-APR-2006 00:26:18    |
| ECMWF_FILE                | AUX_ECF_AXNECM20060428_062023_20060428_210000_20060429_090000  | 1                  | 29-APR-2006 00:26:18    |
| ECMWF_FILE                | AUX_ECF_AXNECM20060428_182348_20060429_030000_20060429_150000  | 19                 | 29-APR-2006 03:20:36    |
| ECMWF_FILE                | AUX_ECA_AXNECM20060429_061337_20060428_210000_20060429_090000  | 37                 | 29-APR-2006 05:01:12    |
| OPTIONAL_ECMWF_FILE       | NOT USED   | 1                  | 29-APR-2006 00:26:18    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20060428_224126_000057382047_00158_21755_0385.N1 | 1                  | 29-APR-2006 00:26:18    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20060429_001704_000057382047_00159_21756_0386.N1 | 5                  | 29-APR-2006 02:06:54    |
| ORBIT_DATA_FILE           | AUX_FPO_AXVPDS20060428_224314_20060428_193259_20060508_205913  | 19                 | 29-APR-2006 03:20:36    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20060429_031224_000057382047_00161_21758_0388.N1 | 37                 | 29-APR-2006 05:01:12    |

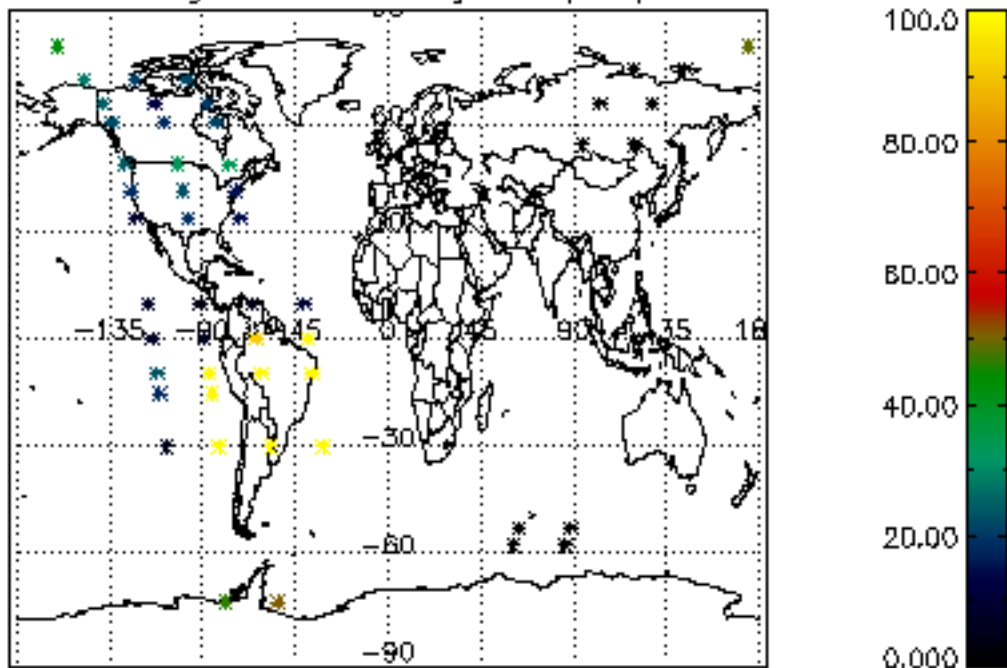




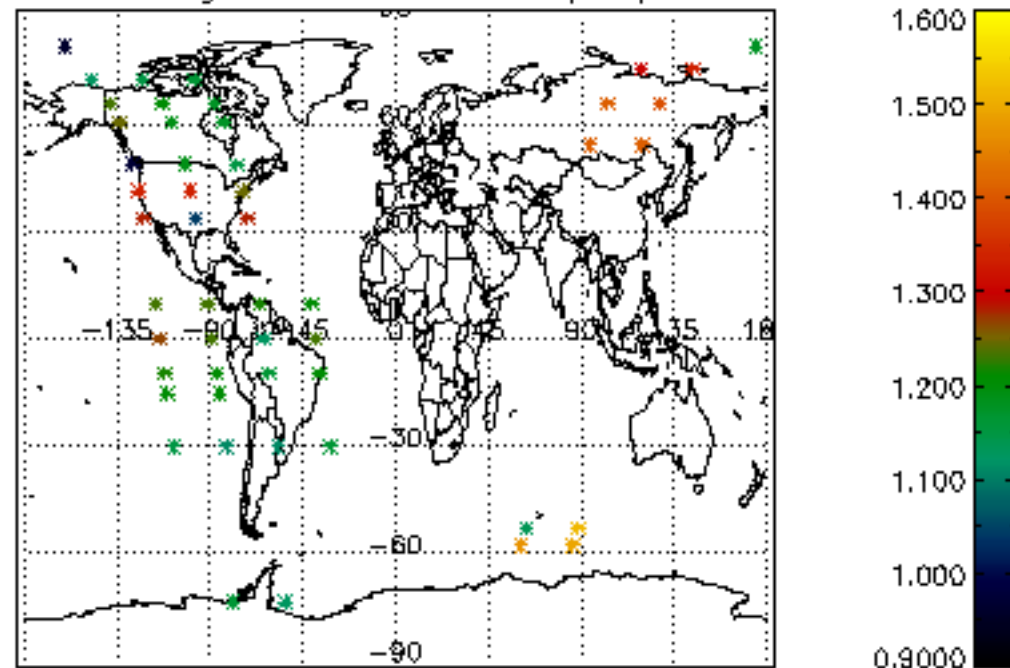




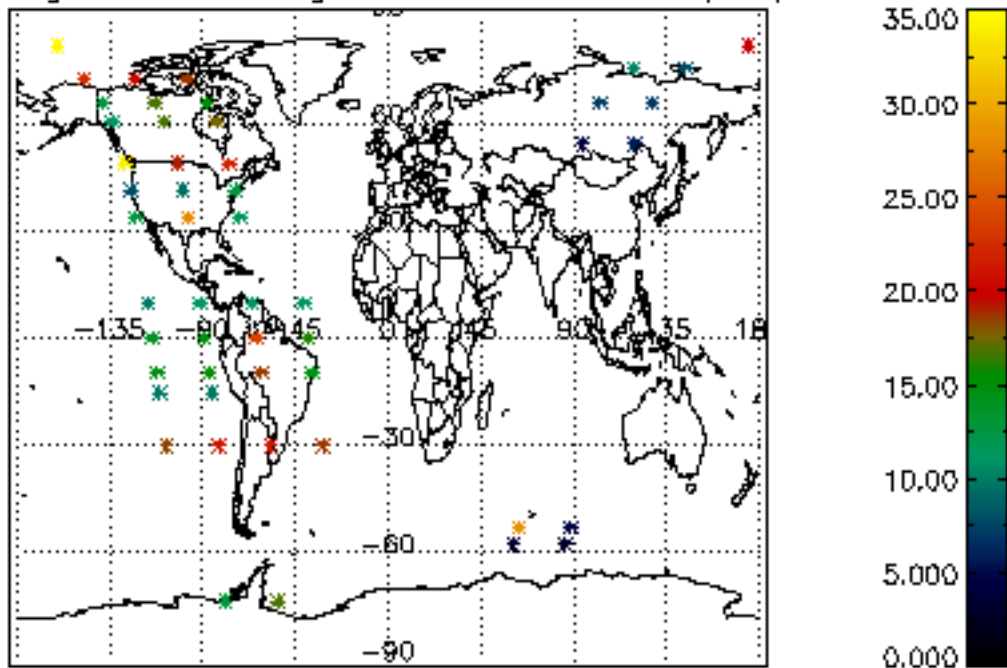
Percentage of cosmic ray hits per profile



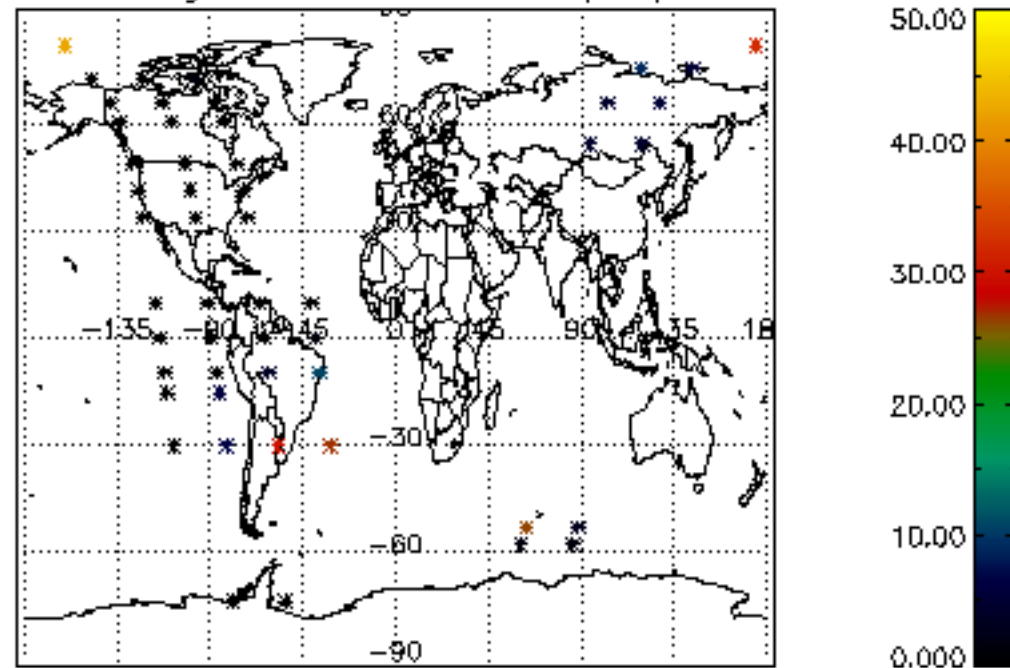
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

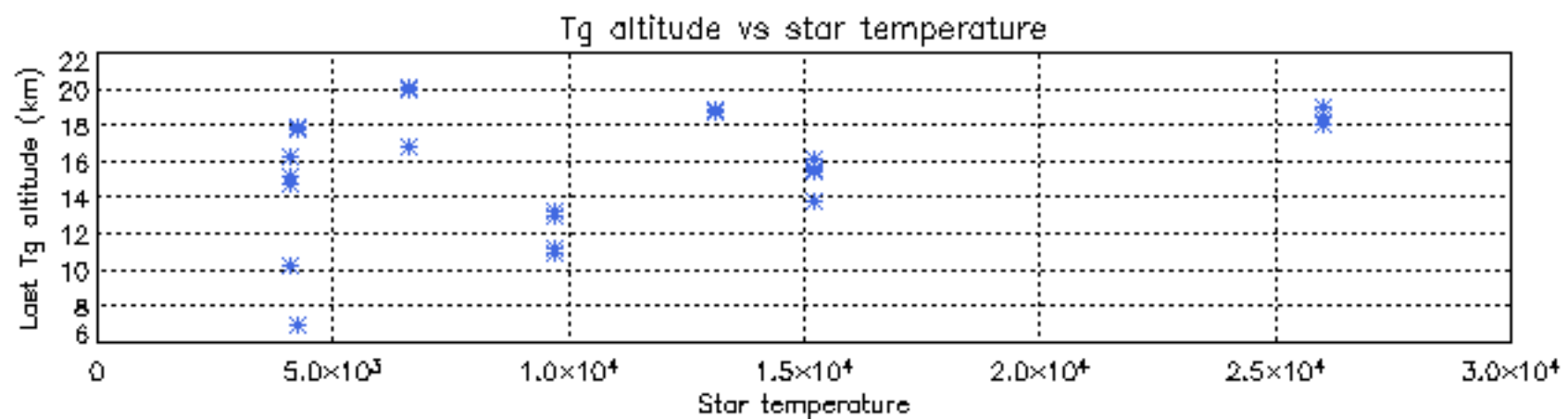
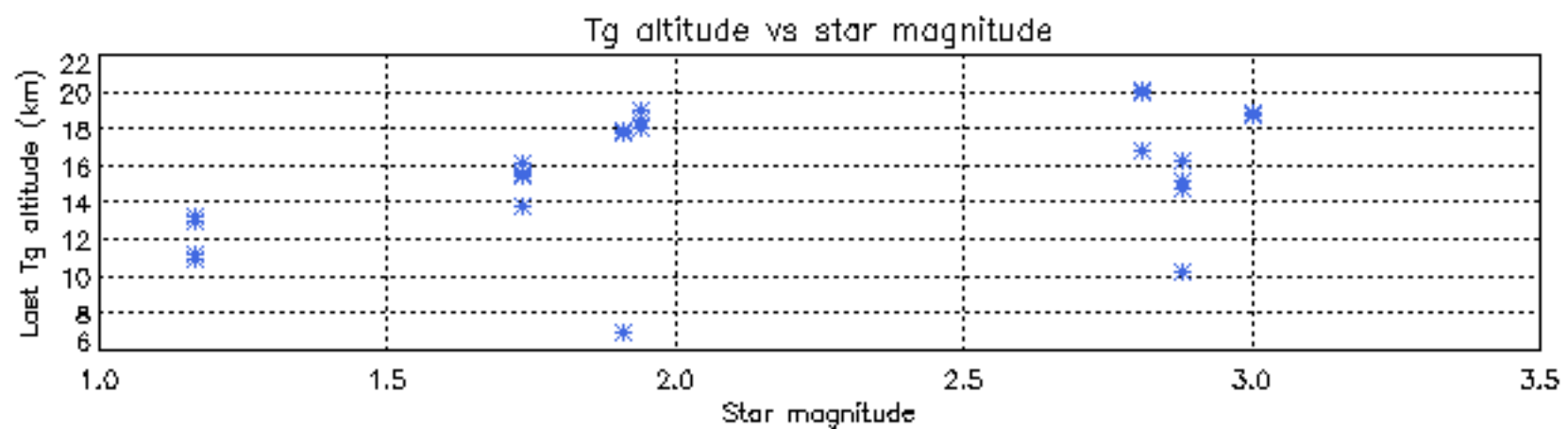
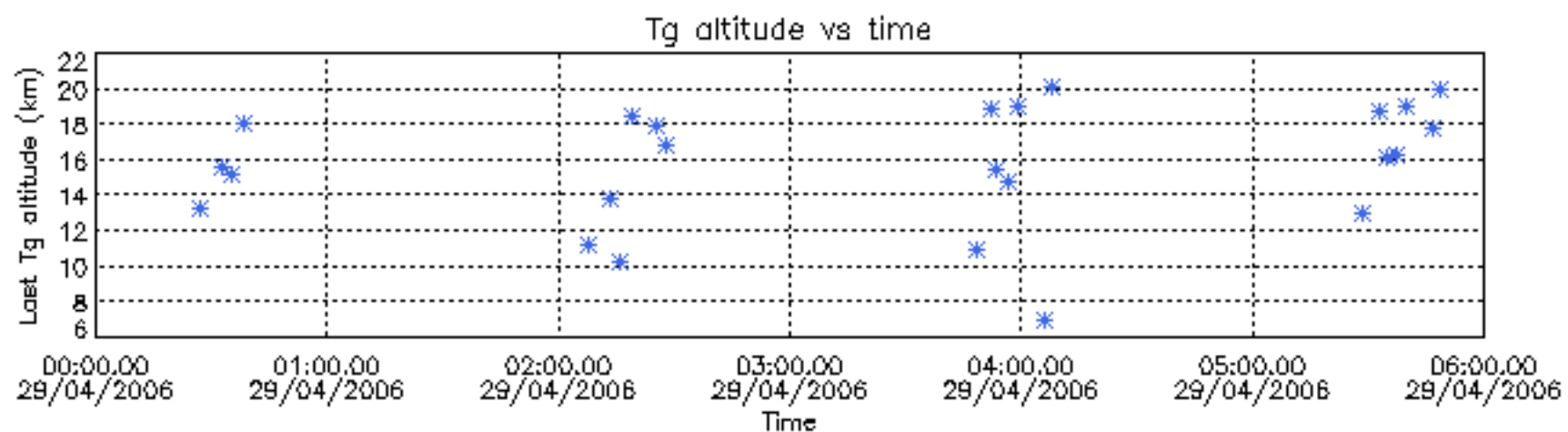


Percentage of saturation errors per profile

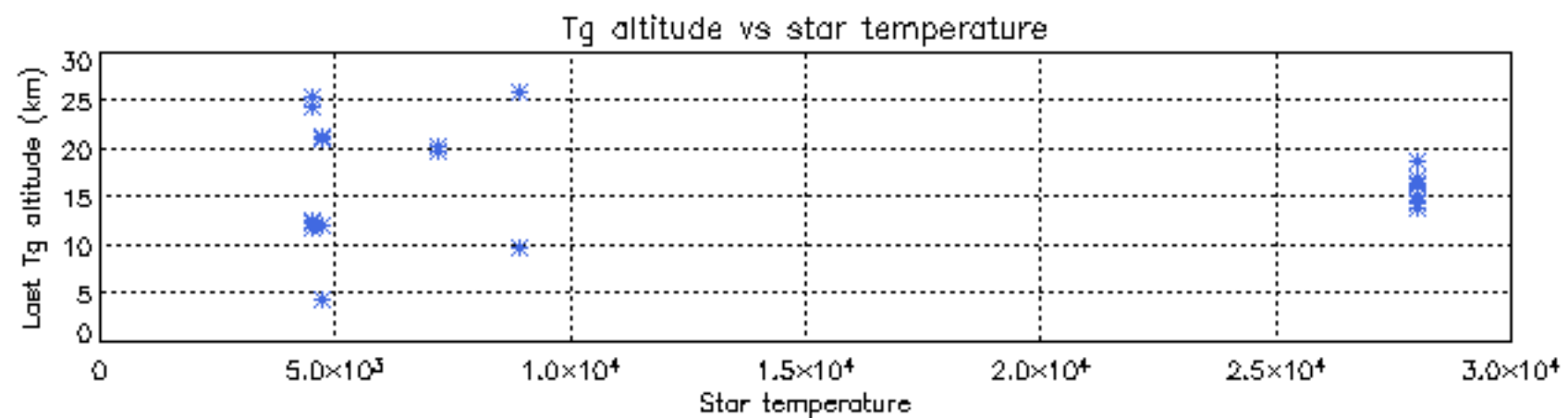
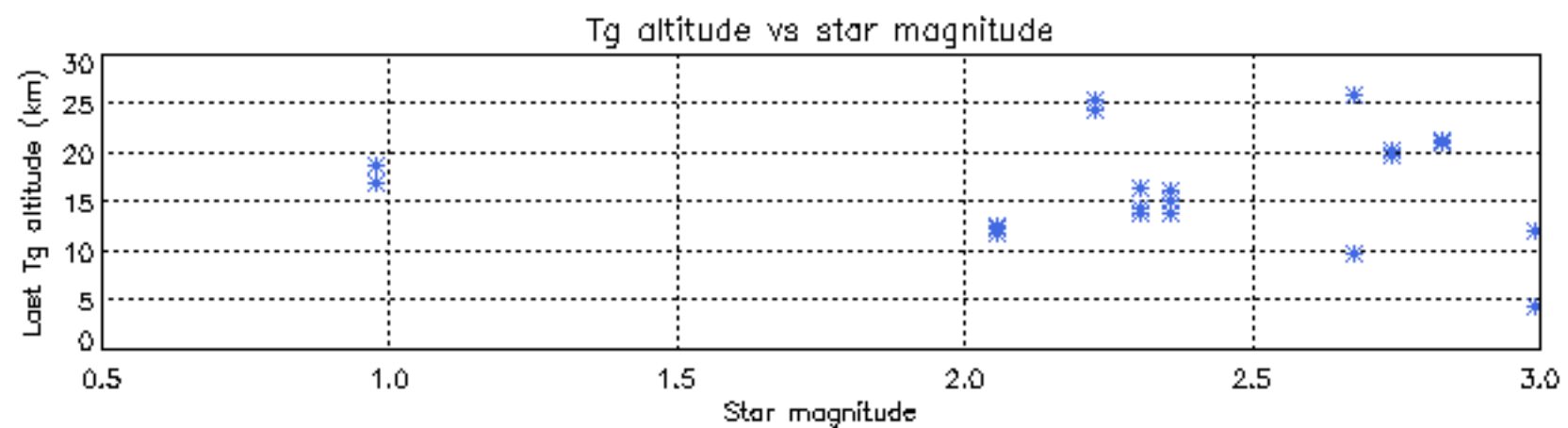
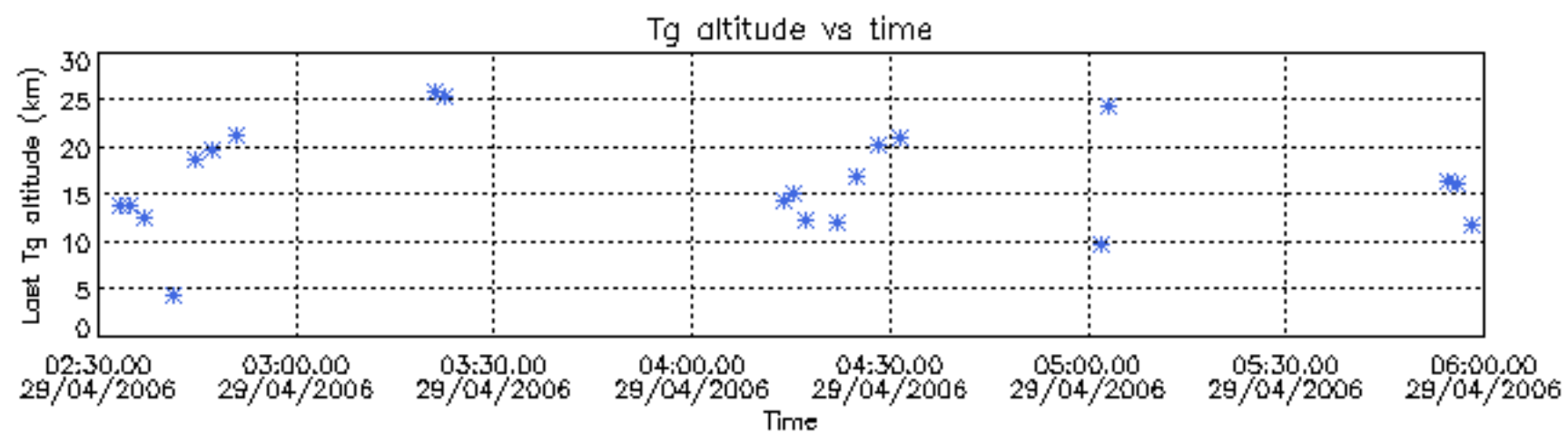




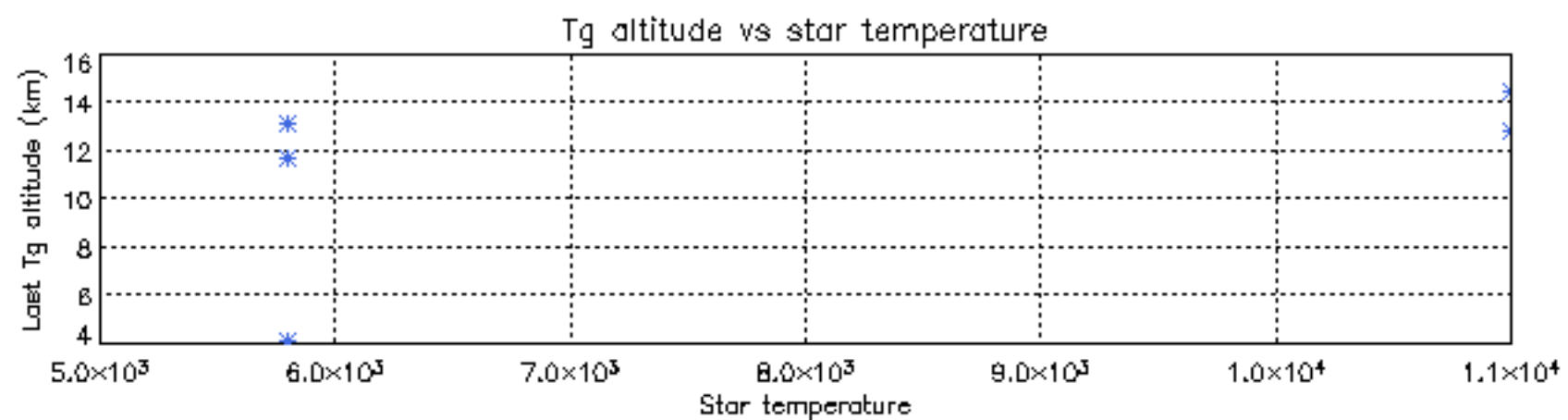
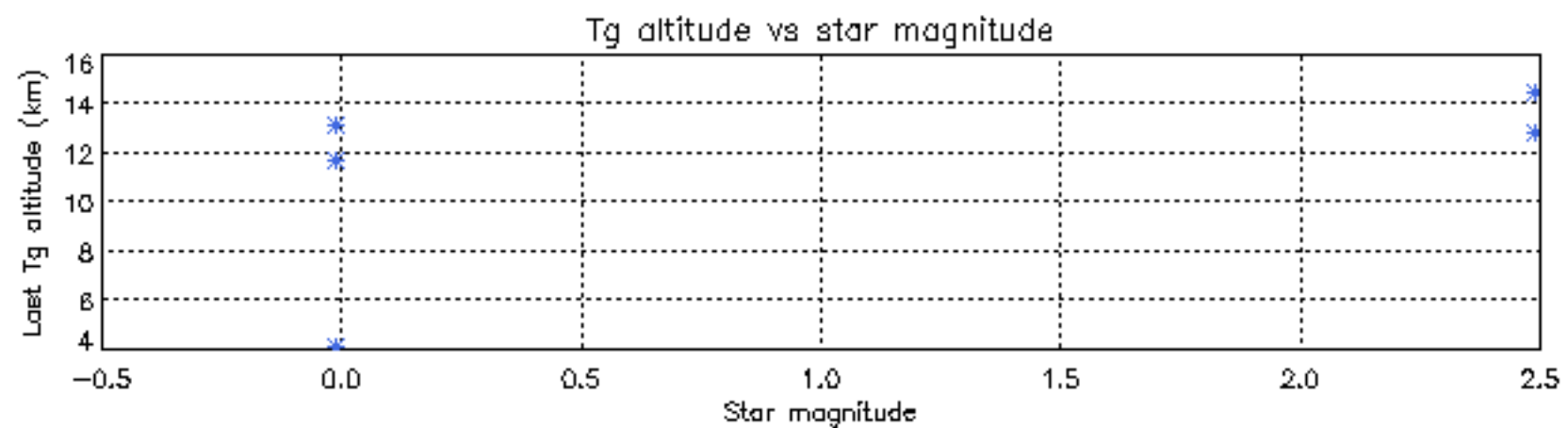
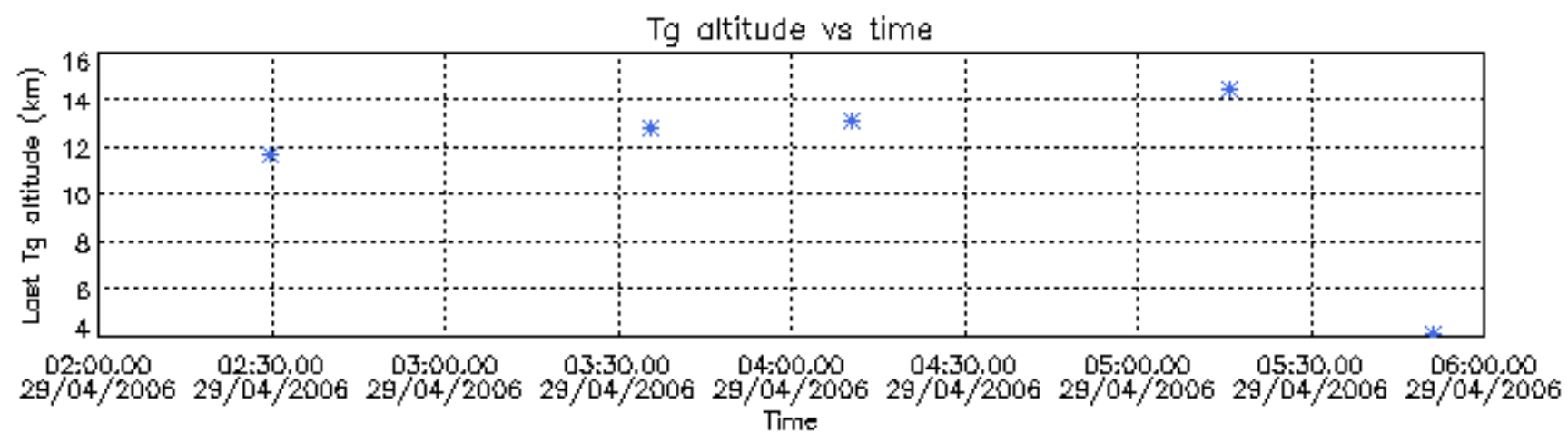
Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost





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 3; 514.9; 01-APR-2006 00:23:08; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;21356  
 4; 673.5; 01-APR-2006 00:25:46; Dark ; 55.0; 4; Alp1Cen ;-0.01; 5800;occ; 110; 0;21356  
 5; 837.9; 01-APR-2006 00:28:31; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;21356  
 6; 934.0; 01-APR-2006 00:30:07; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;21356  
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 12; 2256.9; 01-APR-2006 00:52:10; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21356  
 13; 2666.3; 01-APR-2006 00:58:59; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;21356  
 14; 2848.6; 01-APR-2006 01:02:01; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;21356  
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 17; 3439.7; 01-APR-2006 01:11:52; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;21356  
 18; 3902.0; 01-APR-2006 01:19:35; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;21356  
 19; 4213.6; 01-APR-2006 01:24:46; Bright; 42.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 85; 0;21356  
 20; 4434.0; 01-APR-2006 01:28:27; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;21356  
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 22; 5101.6; 01-APR-2006 01:39:34; Dark ; 42.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 85; 0;21356

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 7; 6970.6; 01-APR-2006 02:10:43; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;21356  
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 9; 7204.0; 01-APR-2006 02:14:37; Dark ; 45.0; 123; Iot Cen ; 2.75; 10200;occ; 90; 0;21356  
 10; 7495.8; 01-APR-2006 02:19:28; Dark ; 46.0; 106; 9Bet Crv ; 2.65; 5600;occ; 92; 0;21356  
 11; 7613.8; 01-APR-2006 02:21:26; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;21356  
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 13; 8292.9; 01-APR-2006 02:32:45; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21356  
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 8; 516.0; 01-APR-2006 03:44:20; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21358  
 9; 674.6; 01-APR-2006 03:46:59; Dark ; 54.5; 4; Alp1Cen ;-0.01; 5800;occ; 109; 0;21358  
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 19; 2848.4; 01-APR-2006 04:23:13; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;21358  
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 21; 3337.9; 01-APR-2006 04:31:22; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;21358  
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7; 334.3; 01-APR-2006 05:21:55; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;21359
8; 516.5; 01-APR-2006 05:24:57; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;21359
9; 675.1; 01-APR-2006 05:27:36; Dark ; 46.0; 4; Alp1Cen ;-0.01; 5800;occ; 92; 0;21359
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11; 936.1; 01-APR-2006 05:31:57; Dark ; 42.0; 81; Eta Cen ; 2.36; 28000;occ; 84; 0;21359
12; 1015.0; 01-APR-2006 05:33:16; Dark ; 39.5; 64; Gam Cen ; 2.20; 10600;occ; 79; 0;21359
13; 1169.1; 01-APR-2006 05:35:50; Dark ; 43.0; 123; Iot Cen ; 2.75; 10200;occ; 86; 0;21359
14; 1460.4; 01-APR-2006 05:40:41; Dark ; 47.0; 106; 9Bet Crv ; 2.65; 5600;occ; 94; 0;21359
15; 1578.3; 01-APR-2006 05:42:39; Dark ; 44.5; 100; 4Gam Crv ; 2.58; 13100;occ; 89; 0;21359
16; 2160.7; 01-APR-2006 05:52:21; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;21359
17; 2257.0; 01-APR-2006 05:53:58; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21359
18; 2666.3; 01-APR-2006 06:00:47; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;21359
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3;-1601.5; 01-APR-2006 06:30:15; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;21359
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8; 517.1; 01-APR-2006 07:05:34; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21360
9; 675.5; 01-APR-2006 07:08:12; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;21360
10; 840.6; 01-APR-2006 07:10:57; Dark ; 43.5; 78; Alp Lup ; 2.30; 28000;occ; 87; 0;21360
11; 936.7; 01-APR-2006 07:12:33; Dark ; 45.0; 81; Eta Cen ; 2.36; 28000;occ; 90; 0;21360
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13; 1169.4; 01-APR-2006 07:16:26; Dark ; 44.0; 123; Iot Cen ; 2.75; 10200;occ; 88; 0;21360
14; 1460.6; 01-APR-2006 07:21:17; Dark ; 45.5; 106; 9Bet Crv ; 2.65; 5600;occ; 91; 0;21360
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 6;-3369.6; 01-APR-2006 16:04:22; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;21365  
 7;-3188.8; 01-APR-2006 16:07:23; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;21365  
 8;-3077.9; 01-APR-2006 16:09:14; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;21365  
 9;-2699.9; 01-APR-2006 16:15:32; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;21365  
 10;-2595.6; 01-APR-2006 16:17:16; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;21365  
 11;-2133.8; 01-APR-2006 16:24:58; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;21365  
 12;-1822.0; 01-APR-2006 16:30:10; Bright; 41.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 82; 0;21365  
 13;-1600.4; 01-APR-2006 16:33:51; Bright; 42.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 85; 0;21365  
 14;-1206.6; 01-APR-2006 16:40:25; Dark ; 45.5; 61; 8Eps Peg ; 2.10; 3900;occ; 91; 0;21365  
 15; -930.5; 01-APR-2006 16:45:01; Dark ; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 0;21365  
 16; -307.6; 01-APR-2006 16:55:24; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;21365  
 17; 340.0; 01-APR-2006 17:06:12; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;21366  
 18; 520.7; 01-APR-2006 17:09:12; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;21366  
 19; 678.8; 01-APR-2006 17:11:50; Dark ; 45.5; 4; Alp1Cen ; -0.01; 5800;occ; 91; 0;21366  
 20; 844.8; 01-APR-2006 17:14:36; Dark ; 45.0; 78; Alp Lup ; 2.30; 28000;occ; 90; 0;21366  
 21; 1017.7; 01-APR-2006 17:17:29; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;21366

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 2;-4864.3; 01-APR-2006 17:20:04; Dark ; 44.0; 123; Iot Cen ; 2.75; 10200;occ; 88; 0;21366  
 3;-4574.2; 01-APR-2006 17:24:54; Dark ; 45.0; 106; 9Bet Crv ; 2.65; 5600;occ; 90; 0;21366  
 4;-4456.8; 01-APR-2006 17:26:51; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;21366  
 5;-3876.0; 01-APR-2006 17:36:32; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;21366  
 6;-3778.9; 01-APR-2006 17:38:09; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21366  
 7;-3370.2; 01-APR-2006 17:44:58; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;21366  
 8;-3189.6; 01-APR-2006 17:47:59; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;21366  
 9;-3078.5; 01-APR-2006 17:49:50; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;21366  
 10;-2700.8; 01-APR-2006 17:56:07; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;21366  
 11;-2596.0; 01-APR-2006 17:57:52; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;21366  
 12;-2134.4; 01-APR-2006 18:05:34; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;21366  
 13;-1822.6; 01-APR-2006 18:10:46; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;21366  
 14;-1600.9; 01-APR-2006 18:14:27; Bright; 42.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 84; 0;21366  
 15;-1206.8; 01-APR-2006 18:21:01; Dark ; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;21366  
 16; -930.7; 01-APR-2006 18:25:38; Dark ; 44.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 89; 0;21366  
 17; -307.3; 01-APR-2006 18:36:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21366  
 18; 340.3; 01-APR-2006 18:46:48; Dark ; 45.5; 141; Bet Ara ; 2.84; 4600;occ; 91; 0;21367  
 19; 520.6; 01-APR-2006 18:49:49; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21367  
 20; 678.8; 01-APR-2006 18:52:27; Dark ; 52.5; 4; Alp1Cen ; -0.01; 5800;occ; 105; 0;21367  
 21; 845.0; 01-APR-2006 18:55:13; Dark ; 43.5; 78; Alp Lup ; 2.30; 28000;occ; 87; 0;21367  
 22; 1017.5; 01-APR-2006 18:58:06; Dark ; 39.0; 64; Gam Cen ; 2.20; 10600;occ; 78; 0;21367

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 2;-4863.9; 01-APR-2006 19:00:40; Dark ; 43.0; 123; Iot Cen ; 2.75; 10200;occ; 86; 0;21367  
 3;-4574.0; 01-APR-2006 19:05:30; Dark ; 45.5; 106; 9Bet Crv ; 2.65; 5600;occ; 91; 0;21367  
 4;-4456.6; 01-APR-2006 19:07:28; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;21367  
 5;-3876.1; 01-APR-2006 19:17:08; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;21367  
 6;-3778.9; 01-APR-2006 19:18:45; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21367  
 7;-3370.2; 01-APR-2006 19:25:34; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;21367  
 8;-3189.7; 01-APR-2006 19:28:34; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;21367  
 9;-3078.6; 01-APR-2006 19:30:26; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;21367  
 10;-2701.0; 01-APR-2006 19:36:43; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;21367  
 11;-2596.0; 01-APR-2006 19:38:28; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;21367  
 12;-2134.5; 01-APR-2006 19:46:10; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;21367  
 13;-1822.6; 01-APR-2006 19:51:22; Bright; 41.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 83; 0;21367  
 14;-1600.7; 01-APR-2006 19:55:04; Bright; 42.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 84; 0;21367  
 15;-1206.6; 01-APR-2006 20:01:38; Dark ; 46.5; 61; 8Eps Peg ; 2.10; 3900;occ; 93; 0;21367  
 16; -930.3; 01-APR-2006 20:06:14; Dark ; 44.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 89; 0;21367  
 17; -306.5; 01-APR-2006 20:16:38; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;21367  
 18; 340.9; 01-APR-2006 20:27:25; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;21368  
 19; 521.1; 01-APR-2006 20:30:25; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;21368  
 20; 679.2; 01-APR-2006 20:33:03; Dark ; 54.5; 4; Alp1Cen ; -0.01; 5800;occ; 109; 0;21368  
 21; 845.5; 01-APR-2006 20:35:50; Dark ; 47.5; 78; Alp Lup ; 2.30; 28000;occ; 95; 0;21368  
 22; 1017.7; 01-APR-2006 20:38:42; Dark ; 5.0; 64; Gam Cen ; 2.20; 10600;occ; 10; 0;21368

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1; -304.0; 02-APR-2006 01:18:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21370  
 2; 343.1; 02-APR-2006 01:29:15; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;21371  
 3; 522.7; 02-APR-2006 01:32:15; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;21371  
 4; 680.5; 02-APR-2006 01:34:52; Dark ; 48.0; 4; Alp1Cen ;-0.01; 5800;occ; 96; 0;21371  
 5; 847.3; 02-APR-2006 01:37:39; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;21371  
 6; 1018.7; 02-APR-2006 01:40:31; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;21371  
 7; 1173.4; 02-APR-2006 01:43:05; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;21371  
 8; 1462.8; 02-APR-2006 01:47:55; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;21371  
 9; 1579.9; 02-APR-2006 01:49:52; Dark ; 40.5; 100; 4Gam Crv ; 2.58; 13100;occ; 81; 0;21371  
 10; 2159.4; 02-APR-2006 01:59:31; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;21371  
 11; 2257.1; 02-APR-2006 02:01:09; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21371  
 12; 2665.5; 02-APR-2006 02:07:57; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;21371  
 13; 2845.4; 02-APR-2006 02:10:57; Bright; 38.5; 87; 64Gam UMa ; 2.43; 11000;occ; 77; 0;21371  
 14; 2957.1; 02-APR-2006 02:12:49; Bright; 35.0; 36; 50Alp UMa ; 1.80; 6300;occ; 70; 0;21371  
 15; 3333.6; 02-APR-2006 02:19:05; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;21371  
 16; 3440.0; 02-APR-2006 02:20:52; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;21371

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 2;-1822.7; 02-APR-2006 02:33:45; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;21371  
 3;-1600.3; 02-APR-2006 02:37:27; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;21371  
 4;-1205.3; 02-APR-2006 02:44:03; Dark ; 48.0; 61; 8Eps Peg ; 2.10; 3900;occ; 96; 0;21371  
 5; -928.8; 02-APR-2006 02:48:39; Dark ; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 0;21371  
 6; -303.2; 02-APR-2006 02:59:05; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;21371  
 7; 344.0; 02-APR-2006 03:09:52; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;21372  
 8; 523.3; 02-APR-2006 03:12:51; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;21372  
 9; 681.1; 02-APR-2006 03:15:29; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;21372  
 10; 848.1; 02-APR-2006 03:18:16; Dark ; 46.0; 78; Alp Lup ; 2.30; 28000;occ; 92; 0;21372  
 11; 1019.0; 02-APR-2006 03:21:07; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;21372  
 12; 1174.0; 02-APR-2006 03:23:42; Dark ; 46.0; 123; Iot Cen ; 2.75; 10200;occ; 92; 0;21372  
 13; 1463.1; 02-APR-2006 03:28:31; Dark ; 45.0; 106; 9Bet Crv ; 2.65; 5600;occ; 90; 0;21372  
 14; 1580.1; 02-APR-2006 03:30:28; Dark ; 43.0; 100; 4Gam Crv ; 2.58; 13100;occ; 86; 0;21372  
 15; 2159.4; 02-APR-2006 03:40:07; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;21372  
 16; 2257.2; 02-APR-2006 03:41:45; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21372  
 17; 2665.4; 02-APR-2006 03:48:33; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;21372  
 18; 2845.2; 02-APR-2006 03:51:33; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;21372  
 19; 2957.2; 02-APR-2006 03:53:25; Bright; 34.0; 36; 50Alp UMa ; 1.80; 6300;occ; 68; 0;21372  
 20; 3333.3; 02-APR-2006 03:59:41; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;21372  
 21; 3440.1; 02-APR-2006 04:01:28; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;21372

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 2;-1822.7; 02-APR-2006 04:14:21; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;21372  
 3;-1600.3; 02-APR-2006 04:18:04; Bright; 43.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 87; 0;21372  
 4;-1205.1; 02-APR-2006 04:24:39; Dark ; 43.5; 61; 8Eps Peg ; 2.10; 3900;occ; 87; 0;21372  
 5; -928.4; 02-APR-2006 04:29:15; Dark ; 42.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 85; 0;21372  
 6; -302.3; 02-APR-2006 04:39:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;21372  
 7; 344.6; 02-APR-2006 04:50:28; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;21373  
 8; 523.8; 02-APR-2006 04:53:28; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;21373  
 9; 681.5; 02-APR-2006 04:56:05; Dark ; 51.0; 4; Alp1Cen ;-0.01; 5800;occ; 102; 0;21373  
 10; 848.7; 02-APR-2006 04:58:52; Dark ; 45.0; 78; Alp Lup ; 2.30; 28000;occ; 90; 0;21373  
 11; 1019.3; 02-APR-2006 05:01:43; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;21373  
 12; 1174.3; 02-APR-2006 05:04:18; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;21373  
 13; 1463.2; 02-APR-2006 05:09:07; Dark ; 45.5; 106; 9Bet Crv ; 2.65; 5600;occ; 91; 0;21373  
 14; 1580.2; 02-APR-2006 05:11:04; Dark ; 43.5; 100; 4Gam Crv ; 2.58; 13100;occ; 87; 0;21373  
 15; 2159.2; 02-APR-2006 05:20:43; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;21373  
 16; 2257.3; 02-APR-2006 05:22:21; Bright; 35.5; 96; 68Del Leo ; 2.56; 9300;occ; 71; 0;21373  
 17; 2665.4; 02-APR-2006 05:29:09; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;21373  
 18; 2845.0; 02-APR-2006 05:32:09; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;21373  
 19; 2957.2; 02-APR-2006 05:34:01; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;21373  
 20; 3333.0; 02-APR-2006 05:40:17; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;21373  
 21; 3440.1; 02-APR-2006 05:42:04; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;21373

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 2; 4213.3; 02-APR-2006 05:54:57; Bright; 42.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 84; 0;21373  
 3; 4435.9; 02-APR-2006 05:58:40; Bright; 41.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 83; 0;21373  
 4; 4831.2; 02-APR-2006 06:05:15; Dark ; 45.5; 61; 8Eps Peg ; 2.10; 3900;occ; 91; 0;21373  
 5; 5107.9; 02-APR-2006 06:09:52; Dark ; 43.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 86; 0;21373  
 6; 5734.6; 02-APR-2006 06:20:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;21373



7; 6381.3; 02-APR-2006 06:31:05; Dark ; 50.0; 141; Bet Ara ; 2.84; 4600;occ; 100; 0;21373  
8; 6560.3; 02-APR-2006 06:34:04; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;21373  
9; 6718.0; 02-APR-2006 06:36:42; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;21373  
10; 6885.3; 02-APR-2006 06:39:29; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;21373  
11; 7055.6; 02-APR-2006 06:42:19; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;21373  
12; 7210.8; 02-APR-2006 06:44:55; Dark ; 44.5; 123; Tot Cen ; 2.75; 10200;occ; 89; 0;21373  
13; 7499.4; 02-APR-2006 06:49:43; Dark ; 44.5; 106; 9Bet Crv ; 2.65; 5600;occ; 89; 0;21373  
14; 7616.4; 02-APR-2006 06:51:40; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;21373  
15; 8195.2; 02-APR-2006 07:01:19; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;21373  
16; 8293.2; 02-APR-2006 07:02:57; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;21373  
17; 8701.3; 02-APR-2006 07:09:45; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;21373  
18; 8880.7; 02-APR-2006 07:12:44; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;21373  
19; 8993.1; 02-APR-2006 07:14:37; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;21373  
20; 9368.7; 02-APR-2006 07:20:52; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;21373  
21; 9476.1; 02-APR-2006 07:22:40; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;21373

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2; 1021.9; 02-APR-2006 20:07:09; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;21382  
3; 1111.8; 02-APR-2006 20:08:39; Dark ; 26.0; 54; 5The Cen ; 2.06; 4500;occ; 52; 0;21382  
4; 1177.7; 02-APR-2006 20:09:45; Dark ; 43.0; 123; Tot Cen ; 2.75; 10200;occ; 86; 0;21382  
5; 1435.3; 02-APR-2006 20:14:03; Dark ; 27.0; 169; 46Gam Hya ; 2.99; 4700;occ; 54; 0;21382  
6; 1495.0; 02-APR-2006 20:15:03; Dark ; 44.0; 171; 2Eps Crv ; 3.00; 4250;occ; 88; 0;21382  
7; 1581.4; 02-APR-2006 20:16:29; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;21382  
8; 1880.6; 02-APR-2006 20:21:28; Bright; 42.0; 121; 29Gam Vir ; 2.74; 7200;occ; 84; 0;21382  
9; 2158.4; 02-APR-2006 20:26:06; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;21382  
10; 2257.1; 02-APR-2006 20:27:45; Bright; 50.0; 96; 68Del Leo ; 2.56; 9300;occ; 100; 0;21382  
11; 2664.8; 02-APR-2006 20:34:32; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;21382  
12; 2842.9; 02-APR-2006 20:37:30; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;21382  
13; 2956.6; 02-APR-2006 20:39:24; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;21382  
14; 3329.9; 02-APR-2006 20:45:37; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;21382  
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22; 4833.9; 02-APR-2006 22:51:17; Dark ; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;21383  
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13; 3442.5; 13-APR-2006 21:42:10; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;21540
14; 3883.6; 13-APR-2006 21:49:31; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;21540
15; 4470.6; 13-APR-2006 21:59:18; Bright; 53.0; 164; 44Eta Peg ; 2.95; 5400;occ; 106; 0;21540
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11; 602.3; 13-APR-2006 07:30:02; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;21532  
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18; 479.3; 13-APR-2006 10:49:11; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;21534  
19; 603.2; 13-APR-2006 10:51:14; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;21534  
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23; 1178.5; 13-APR-2006 11:00:50; Dark ; 47.5; 54; 5The Cen ; 2.06; 4500;occ; 95; 0;21534  
24; 1493.4; 13-APR-2006 11:06:05; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;21534  
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|---|----------|-------------|-----------|---------|-------|-------|-----------|-----------|-------|------------|------------|------|-------|-------|
| 2;  | -4161.0; | 13-APR-2006 | 11:12:26; | Bright; | 37.0; | 121;  | 29Gam Vir | ;         | 2.74; | 7200;occ;  | 74;        | 0;   | 21534 |       |
| 3;  | -3878.3; | 13-APR-2006 | 11:17:09; | Bright; | 36.5; | 62;   | 94Bet Leo | ;         | 2.14; | 9700;occ;  | 73;        | 0;   | 21534 |       |
| 4;  | -3436.1; | 13-APR-2006 | 11:24:31; | Bright; | 38.5; | 152;  | 12Alp2CVn | ;         | 2.89; | 11000;occ; | 77;        | 0;   | 21534 |       |
| 5;  | -3366.2; | 13-APR-2006 | 11:25:41; | Bright; | 35.5; | 174;  | 52Psi UMa | ;         | 3.00; | 4400;occ;  | 71;        | 0;   | 21534 |       |
| 6;  | -3213.7; | 13-APR-2006 | 11:28:13; | Bright; | 35.0; | 87;   | 64Gam UMa | ;         | 2.43; | 11000;occ; | 70;        | 0;   | 21534 |       |
| 7;  | -3138.6; | 13-APR-2006 | 11:29:29; | Bright; | 39.0; | 32;   | 77Eps UMa | ;         | 1.76; | 11000;occ; | 78;        | 0;   | 21534 |       |
| 8;  | -2752.7; | 13-APR-2006 | 11:35:54; | Bright; | 40.0; | 60;   | 7Bet UMi  | ;         | 2.08; | 3950;occ;  | 80;        | 0;   | 21534 |       |
| 9;  | -2593.4; | 13-APR-2006 | 11:38:34; | Bright; | 36.0; | 49;   | 1Alp UMi  | ;         | 1.99; | 6300;occ;  | 72;        | 0;   | 21534 |       |
| 10;   | -2151.4; | 13-APR-2006 | 11:45:56; | Bright; | 38.0; | 89;   | 5Alp Cep  | ;         | 2.45; | 8000;occ;  | 76;        | 0;   | 21534 |       |
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| 12;   | -1150.0; | 13-APR-2006 | 12:02:37; | Dark    | ;     | 48.5; | 61;       | 8Eps Peg  | ;     | 2.10;      | 3900;occ;  | 97;  | 0;    | 21534 |
| 13;   | -1002.0; | 13-APR-2006 | 12:05:05; | Dark    | ;     | 41.5; | 162;      | 34Alp Aqr | ;     | 2.94;      | 5350;occ;  | 83;  | 0;    | 21534 |
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| 15;   | -705.4;  | 13-APR-2006 | 12:10:02; | Dark    | ;     | 43.0; | 142;      | 49Del Cap | ;     | 2.85;      | 8900;occ;  | 86;  | 0;    | 21534 |
| 16;   | -384.3;  | 13-APR-2006 | 12:15:23; | Dark    | ;     | 38.5; | 172;      | Gam Gru   | ;     | 3.00;      | 13100;occ; | 77;  | 0;    | 21534 |
| 17;   | -90.3;   | 13-APR-2006 | 12:20:17; | Dark    | ;     | 59.5; | 0;        | ;         | ;     | 0.00;      | 0;occ;     | 119; | 0;    | 21534 |
| 18;   | 34.3;    | 13-APR-2006 | 12:22:21; | Dark    | ;     | 38.5; | 45;       | Alp Pav   | ;     | 1.94;      | 26000;occ; | 77;  | 0;    | 21535 |
| 19;   | 479.8;   | 13-APR-2006 | 12:29:47; | Dark    | ;     | 41.5; | 43;       | Alp TrA   | ;     | 1.91;      | 4250;occ;  | 83;  | 0;    | 21535 |
| 20;   | 603.7;   | 13-APR-2006 | 12:31:51; | Dark    | ;     | 38.5; | 134;      | Bet TrA   | ;     | 2.81;      | 6600;occ;  | 77;  | 0;    | 21535 |
| 21;   | 750.3;   | 13-APR-2006 | 12:34:17; | Dark    | ;     | 44.5; | 4;        | Alp1Cen   | ;     | -0.01;     | 5800;occ;  | 89;  | 0;    | 21535 |
| 22;   | 937.6;   | 13-APR-2006 | 12:37:25; | Dark    | ;     | 42.5; | 78;       | Alp Lup   | ;     | 2.30;      | 28000;occ; | 85;  | 0;    | 21535 |
| 23;   | 1033.6;  | 13-APR-2006 | 12:39:01; | Dark    | ;     | 45.0; | 81;       | Eta Cen   | ;     | 2.36;      | 28000;occ; | 90;  | 0;    | 21535 |
| 24;   | 1178.9;  | 13-APR-2006 | 12:41:26; | Dark    | ;     | 45.0; | 54;       | 5The Cen  | ;     | 2.06;      | 4500;occ;  | 90;  | 0;    | 21535 |
| 25;   | 1493.5;  | 13-APR-2006 | 12:46:41; | Dark    | ;     | 42.5; | 106;      | 9Bet Crv  | ;     | 2.65;      | 5600;occ;  | 85;  | 0;    | 21535 |
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| 2;  | -4161.1; | 13-APR-2006 | 12:53:02; | Bright; | 38.5; | 121;  | 29Gam Vir | ;         | 2.74; | 7200;occ;  | 77;        | 0;   | 21535 |       |
| 3;  | -3878.2; | 13-APR-2006 | 12:57:45; | Bright; | 35.5; | 62;   | 94Bet Leo | ;         | 2.14; | 9700;occ;  | 71;        | 0;   | 21535 |       |
| 4;  | -3436.5; | 13-APR-2006 | 13:05:07; | Bright; | 38.0; | 152;  | 12Alp2CVn | ;         | 2.89; | 11000;occ; | 76;        | 0;   | 21535 |       |
| 5;  | -3366.0; | 13-APR-2006 | 13:06:17; | Bright; | 35.5; | 174;  | 52Psi UMa | ;         | 3.00; | 4400;occ;  | 71;        | 0;   | 21535 |       |
| 6;  | -3213.8; | 13-APR-2006 | 13:08:49; | Bright; | 34.0; | 87;   | 64Gam UMa | ;         | 2.43; | 11000;occ; | 68;        | 0;   | 21535 |       |
| 7;  | -3138.9; | 13-APR-2006 | 13:10:04; | Bright; | 38.5; | 32;   | 77Eps UMa | ;         | 1.76; | 11000;occ; | 77;        | 0;   | 21535 |       |
| 8;  | -2753.0; | 13-APR-2006 | 13:16:30; | Bright; | 38.0; | 60;   | 7Bet UMi  | ;         | 2.08; | 3950;occ;  | 76;        | 0;   | 21535 |       |
| 9;  | -2593.3; | 13-APR-2006 | 13:19:10; | Bright; | 34.5; | 49;   | 1Alp UMi  | ;         | 1.99; | 6300;occ;  | 69;        | 0;   | 21535 |       |
| 10;   | -2151.4; | 13-APR-2006 | 13:26:32; | Bright; | 38.0; | 89;   | 5Alp Cep  | ;         | 2.45; | 8000;occ;  | 76;        | 0;   | 21535 |       |
| 11;   | -1565.9; | 13-APR-2006 | 13:36:17; | Bright; | 53.0; | 164;  | 44Eta Peg | ;         | 2.95; | 5400;occ;  | 106;       | 0;   | 21535 |       |
| 12;   | -1149.5; | 13-APR-2006 | 13:43:14; | Dark    | ;     | 51.0; | 61;       | 8Eps Peg  | ;     | 2.10;      | 3900;occ;  | 102; | 0;    | 21535 |
| 13;   | -1001.5; | 13-APR-2006 | 13:45:42; | Dark    | ;     | 43.5; | 162;      | 34Alp Aqr | ;     | 2.94;      | 5350;occ;  | 87;  | 0;    | 21535 |
| 14;   | -850.1;  | 13-APR-2006 | 13:48:13; | Dark    | ;     | 49.5; | 154;      | 22Bet Aqr | ;     | 2.90;      | 5700;occ;  | 99;  | 0;    | 21535 |
| 15;   | -704.8;  | 13-APR-2006 | 13:50:38; | Dark    | ;     | 40.5; | 142;      | 49Del Cap | ;     | 2.85;      | 8900;occ;  | 81;  | 0;    | 21535 |
| 16;   | -383.9;  | 13-APR-2006 | 13:55:59; | Dark    | ;     | 39.5; | 172;      | Gam Gru   | ;     | 3.00;      | 13100;occ; | 79;  | 0;    | 21535 |
| 17;   | -89.8;   | 13-APR-2006 | 14:00:53; | Dark    | ;     | 59.5; | 0;        | ;         | ;     | 0.00;      | 0;occ;     | 119; | 0;    | 21535 |
| 18;   | 34.8;    | 13-APR-2006 | 14:02:58; | Dark    | ;     | 46.5; | 45;       | Alp Pav   | ;     | 1.94;      | 26000;occ; | 93;  | 0;    | 21536 |
| 19;   | 480.3;   | 13-APR-2006 | 14:10:23; | Dark    | ;     | 41.5; | 43;       | Alp TrA   | ;     | 1.91;      | 4250;occ;  | 83;  | 0;    | 21536 |
| 20;   | 604.1;   | 13-APR-2006 | 14:12:27; | Dark    | ;     | 39.0; | 134;      | Bet TrA   | ;     | 2.81;      | 6600;occ;  | 78;  | 0;    | 21536 |
| 21;   | 750.7;   | 13-APR-2006 | 14:14:54; | Dark    | ;     | 47.5; | 4;        | Alp1Cen   | ;     | -0.01;     | 5800;occ;  | 95;  | 0;    | 21536 |
| 22;   | 938.0;   | 13-APR-2006 | 14:18:01; | Dark    | ;     | 40.5; | 78;       | Alp Lup   | ;     | 2.30;      | 28000;occ; | 81;  | 0;    | 21536 |
| 23;   | 1034.1;  | 13-APR-2006 | 14:19:37; | Dark    | ;     | 43.0; | 81;       | Eta Cen   | ;     | 2.36;      | 28000;occ; | 86;  | 0;    | 21536 |
| 24;   | 1179.4;  | 13-APR-2006 | 14:22:02; | Dark    | ;     | 44.5; | 54;       | 5The Cen  | ;     | 2.06;      | 4500;occ;  | 89;  | 0;    | 21536 |
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| 2;  | -4542.3; | 13-APR-2006 | 14:27:17; | Dark    | ;     | 44.0; | 106;      | 9Bet Crv  | ;     | 2.65;      | 5600;occ;  | 88;  | 0;    | 21536 |
| 3;  | -4431.9; | 13-APR-2006 | 14:29:07; | Dark    | ;     | 42.0; | 100;      | 4Gam Crv  | ;     | 2.58;      | 13100;occ; | 84;  | 0;    | 21536 |
| 4;  | -4161.0; | 13-APR-2006 | 14:33:38; | Bright; | 38.5; | 121;  | 29Gam Vir | ;         | 2.74; | 7200;occ;  | 77;        | 0;   | 21536 |       |
| 5;  | -3878.1; | 13-APR-2006 | 14:38:21; | Bright; | 35.0; | 62;   | 94Bet Leo | ;         | 2.14; | 9700;occ;  | 70;        | 0;   | 21536 |       |
| 6;  | -3436.8; | 13-APR-2006 | 14:45:42; | Bright; | 37.5; | 152;  | 12Alp2CVn | ;         | 2.89; | 11000;occ; | 75;        | 0;   | 21536 |       |
| 7;  | -2753.3; | 13-APR-2006 | 14:57:06; | Bright; | 35.5; | 60;   | 7Bet UMi  | ;         | 2.08; | 3950;occ;  | 71;        | 0;   | 21536 |       |
| 8;  | -2593.4; | 13-APR-2006 | 14:59:46; | Bright; | 34.0; | 49;   | 1Alp UMi  | ;         | 1.99; | 6300;occ;  | 68;        | 0;   | 21536 |       |
| 9;  | -2151.6; | 13-APR-2006 | 15:07:07; | Bright; | 38.0; | 89;   | 5Alp Cep  | ;         | 2.45; | 8000;occ;  | 76;        | 0;   | 21536 |       |
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| 11;   | -1149.2; | 13-APR-2006 | 15:23:50; | Dark    | ;     | 53.5; | 61;       | 8Eps Peg  | ;     | 2.10;      | 3900;occ;  | 107; | 0;    | 21536 |
| 12;   | -1001.1; | 13-APR-2006 | 15:26:18; | Dark    | ;     | 47.0; | 162;      | 34Alp Aqr | ;     | 2.94;      | 5350;occ;  | 94;  | 0;    | 21536 |
| 13;   | -849.6;  | 13-APR-2006 | 15:28:49; | Dark    | ;     | 48.5; | 154;      | 22Bet Aqr | ;     | 2.90;      | 5700;occ;  | 97;  | 0;    | 21536 |
| 14;   | -704.3;  | 13-APR-2006 | 15:31:15; | Dark    | ;     | 44.5; | 142;      | 49Del Cap | ;     | 2.85;      | 8900;occ;  | 89;  | 0;    | 21536 |
| 15;   | -383.4;  | 13-APR-2006 | 15:36:36; | Dark    | ;     | 38.0; | 172;      | Gam Gru   | ;     | 3.00;      | 13100;occ; | 76;  | 0;    | 21536 |
| 16;   | -89.3;   | 13-APR-2006 | 15:41:30; | Dark    | ;     | 59.5; | 0;        | ;         | ;     | 0.00;      | 0;occ;     | 119; | 0;    | 21536 |
| 17;   | 35.3;    | 13-APR-2006 | 15:43:34; | Dark    | ;     | 47.5; | 45;       | Alp Pav   | ;     | 1.94;      | 26000;occ; | 95;  | 0;    | 21537 |
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5; 2828.7; 29-APR-2006 08:04:19; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;21761  
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8; 3444.0; 29-APR-2006 08:14:35; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;21761  
9; 3913.6; 29-APR-2006 08:22:24; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;21761  
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