

# GOMOS Daily Report 26-JUN-2010

## 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 | 29JUN2010 04:48:50 |
| Data source version       | GOMOS/5.01         |
| Start time of products    | 26JUN2010 00:01:10 |
| Stop time of products     | 26JUN2010 23:58:07 |
| Store outputs in DB       | Yes                |
| Nb of level 1b prods      | 109                |
| Nb of prods with errors   | 0                  |

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

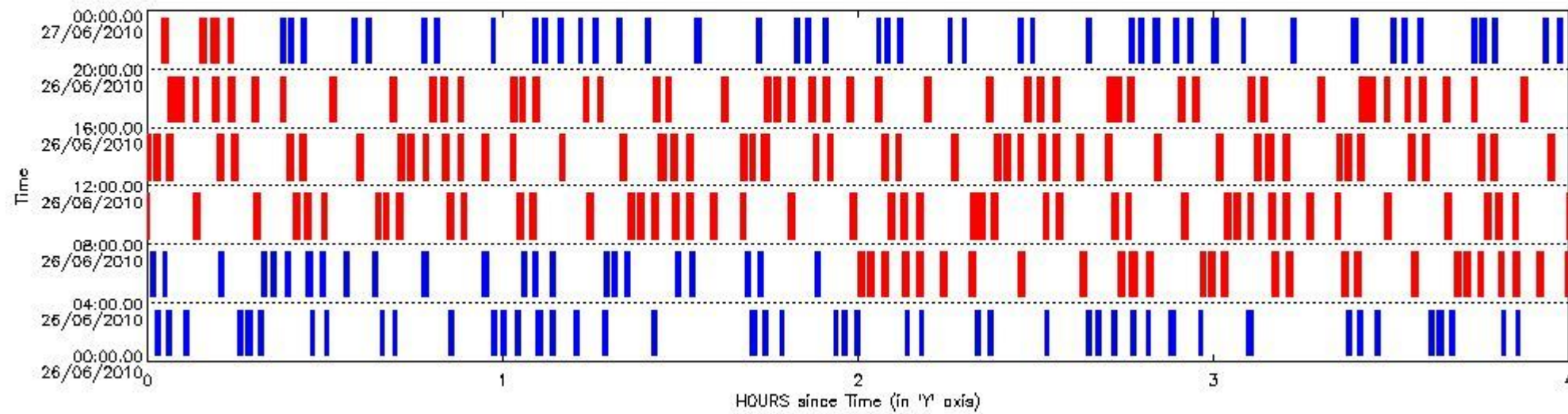
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

| UTC start time       | Star name | Star ID | Orbit |
|----------------------|-----------|---------|-------|
| 26-JUN-2010 05:59:55 | 11BetCas  | 74      | 43503 |
| 26-JUN-2010 06:01:30 | 18AlpCas  | 68      | 43503 |
| 26-JUN-2010 06:03:59 | 23GamPer  | 160     | 43503 |
| 26-JUN-2010 06:07:24 | 57Gam1And | 73      | 43503 |
| 26-JUN-2010 06:09:53 | 4BetTri   | 173     | 43503 |
| 26-JUN-2010 06:13:52 | 13AlpAri  | 50      | 43503 |
| 26-JUN-2010 06:18:44 | 92AlpCet  | 94      | 43503 |
| 26-JUN-2010 06:26:59 | DSA1066   | 0       | 43503 |
| 26-JUN-2010 06:37:18 | AlpPhe    | 84      | 43504 |
| 26-JUN-2010 06:43:47 | BetGru    | 63      | 43504 |
| 26-JUN-2010 06:45:48 | AlpGru    | 31      | 43504 |
| 26-JUN-2010 06:48:40 | AlpPav    | 45      | 43504 |
| 26-JUN-2010 06:57:45 | 20EpsSgr  | 38      | 43504 |
| 26-JUN-2010 06:59:08 | 19DelSgr  | 116     | 43504 |
| 26-JUN-2010 07:01:17 | 41PiSgr   | 155     | 43504 |

|                      |           |     |       |
|----------------------|-----------|-----|-------|
| 26-JUN-2010 07:09:55 | 60BetOph  | 126 | 43504 |
| 26-JUN-2010 07:12:18 | 55AlpOph  | 59  | 43504 |
| 26-JUN-2010 07:21:41 | 3AlpLyr   | 5   | 43504 |
| 26-JUN-2010 07:23:53 | 23BetDra  | 130 | 43504 |
| 26-JUN-2010 07:33:22 | 5AlpCep   | 89  | 43504 |
| 26-JUN-2010 07:40:30 | 11BetCas  | 74  | 43504 |
| 26-JUN-2010 07:42:06 | 18AlpCas  | 68  | 43504 |
| 26-JUN-2010 07:44:35 | 23GamPer  | 160 | 43504 |
| 26-JUN-2010 07:48:00 | 57Gam1And | 73  | 43504 |
| 26-JUN-2010 07:50:29 | 4BetTri   | 173 | 43504 |
| 26-JUN-2010 07:54:28 | 13AlpAri  | 50  | 43504 |
| 26-JUN-2010 07:59:20 | 92AlpCet  | 94  | 43504 |
| 26-JUN-2010 08:07:36 | DSA1066   | 0   | 43504 |
| 26-JUN-2010 08:17:54 | AlpPhe    | 84  | 43505 |
| 26-JUN-2010 08:24:24 | BetGru    | 63  | 43505 |
| 26-JUN-2010 08:26:25 | AlpGru    | 31  | 43505 |
| 26-JUN-2010 08:29:16 | AlpPav    | 45  | 43505 |
| 26-JUN-2010 08:38:21 | 20EpsSgr  | 38  | 43505 |
| 26-JUN-2010 08:39:45 | 19DelSgr  | 116 | 43505 |
| 26-JUN-2010 08:41:53 | 41PiSgr   | 155 | 43505 |
| 26-JUN-2010 08:50:31 | 60BetOph  | 126 | 43505 |
| 26-JUN-2010 08:52:54 | 55AlpOph  | 59  | 43505 |
| 26-JUN-2010 09:02:16 | 3AlpLyr   | 5   | 43505 |
| 26-JUN-2010 09:04:28 | 23BetDra  | 130 | 43505 |
| 26-JUN-2010 09:13:58 | 5AlpCep   | 89  | 43505 |
| 26-JUN-2010 09:21:05 | 11BetCas  | 74  | 43505 |
| 26-JUN-2010 09:22:41 | 18AlpCas  | 68  | 43505 |
| 26-JUN-2010 09:25:11 | 23GamPer  | 160 | 43505 |
| 26-JUN-2010 09:28:36 | 57Gam1And | 73  | 43505 |
| 26-JUN-2010 09:31:05 | 4BetTri   | 173 | 43505 |
| 26-JUN-2010 09:35:04 | 13AlpAri  | 50  | 43505 |
| 26-JUN-2010 09:39:57 | 92AlpCet  | 94  | 43505 |
| 26-JUN-2010 09:48:13 | DSA1066   | 0   | 43505 |
| 26-JUN-2010 09:58:31 | AlpPhe    | 84  | 43506 |
| 26-JUN-2010 10:05:01 | BetGru    | 63  | 43506 |
| 26-JUN-2010 10:07:02 | AlpGru    | 31  | 43506 |
| 26-JUN-2010 10:09:52 | AlpPav    | 45  | 43506 |
| 26-JUN-2010 10:18:57 | 20EpsSgr  | 38  | 43506 |
| 26-JUN-2010 10:20:21 | 19DelSgr  | 116 | 43506 |
| 26-JUN-2010 10:22:29 | 41PiSgr   | 155 | 43506 |
| 26-JUN-2010 10:31:07 | 60BetOph  | 126 | 43506 |
| 26-JUN-2010 10:33:30 | 55AlpOph  | 59  | 43506 |
| 26-JUN-2010 10:42:51 | 3AlpLyr   | 5   | 43506 |
| 26-JUN-2010 10:45:04 | 23BetDra  | 130 | 43506 |
| 26-JUN-2010 10:54:33 | 5AlpCep   | 89  | 43506 |
| 26-JUN-2010 11:01:41 | 11BetCas  | 74  | 43506 |
| 26-JUN-2010 11:03:17 | 18AlpCas  | 68  | 43506 |
| 26-JUN-2010 11:05:47 | 23GamPer  | 160 | 43506 |
| 26-JUN-2010 11:09:12 | 57Gam1And | 73  | 43506 |
| 26-JUN-2010 11:11:41 | 4BetTri   | 173 | 43506 |
| 26-JUN-2010 11:15:40 | 13AlpAri  | 50  | 43506 |
| 26-JUN-2010 11:20:33 | 92AlpCet  | 94  | 43506 |
| 26-JUN-2010 11:28:49 | DSA1066   | 0   | 43506 |
| 26-JUN-2010 11:39:08 | AlpPhe    | 84  | 43507 |
| 26-JUN-2010 11:45:38 | BetGru    | 63  | 43507 |
| 26-JUN-2010 11:47:39 | AlpGru    | 31  | 43507 |
| 26-JUN-2010 11:50:29 | AlpPav    | 45  | 43507 |
| 26-JUN-2010 11:59:33 | 20EpsSgr  | 38  | 43507 |
| 26-JUN-2010 12:00:57 | 19DelSgr  | 116 | 43507 |

|                      |           |     |       |
|----------------------|-----------|-----|-------|
| 26-JUN-2010 12:03:05 | 41PiSgr   | 155 | 43507 |
| 26-JUN-2010 12:11:43 | 60BetOph  | 126 | 43507 |
| 26-JUN-2010 12:14:05 | 55AlpOph  | 59  | 43507 |
| 26-JUN-2010 12:23:27 | 3AlpLyr   | 5   | 43507 |
| 26-JUN-2010 12:25:40 | 23BetDra  | 130 | 43507 |
| 26-JUN-2010 12:35:08 | 5AlpCep   | 89  | 43507 |
| 26-JUN-2010 12:42:16 | 11BetCas  | 74  | 43507 |
| 26-JUN-2010 12:43:52 | 18AlpCas  | 68  | 43507 |
| 26-JUN-2010 12:46:23 | 23GamPer  | 160 | 43507 |
| 26-JUN-2010 12:49:48 | 57Gam1And | 73  | 43507 |
| 26-JUN-2010 12:52:17 | 4BetTri   | 173 | 43507 |
| 26-JUN-2010 12:56:17 | 13AlpAri  | 50  | 43507 |
| 26-JUN-2010 13:01:09 | 92AlpCet  | 94  | 43507 |
| 26-JUN-2010 13:09:26 | DSA1066   | 0   | 43507 |
| 26-JUN-2010 13:19:45 | AlpPhe    | 84  | 43508 |
| 26-JUN-2010 13:26:15 | BetGru    | 63  | 43508 |
| 26-JUN-2010 13:28:15 | AlpGru    | 31  | 43508 |
| 26-JUN-2010 13:31:05 | AlpPav    | 45  | 43508 |
| 26-JUN-2010 13:40:09 | 20EpsSgr  | 38  | 43508 |
| 26-JUN-2010 13:41:33 | 19DelSgr  | 116 | 43508 |
| 26-JUN-2010 13:43:41 | 41PiSgr   | 155 | 43508 |
| 26-JUN-2010 13:52:19 | 60BetOph  | 126 | 43508 |
| 26-JUN-2010 13:54:41 | 55AlpOph  | 59  | 43508 |
| 26-JUN-2010 14:04:02 | 3AlpLyr   | 5   | 43508 |
| 26-JUN-2010 14:06:16 | 23BetDra  | 130 | 43508 |
| 26-JUN-2010 14:15:43 | 5AlpCep   | 89  | 43508 |
| 26-JUN-2010 14:22:52 | 11BetCas  | 74  | 43508 |
| 26-JUN-2010 14:24:28 | 18AlpCas  | 68  | 43508 |
| 26-JUN-2010 14:26:59 | 23GamPer  | 160 | 43508 |
| 26-JUN-2010 14:30:24 | 57Gam1And | 73  | 43508 |
| 26-JUN-2010 14:32:53 | 4BetTri   | 173 | 43508 |
| 26-JUN-2010 14:36:53 | 13AlpAri  | 50  | 43508 |
| 26-JUN-2010 14:41:45 | 92AlpCet  | 94  | 43508 |
| 26-JUN-2010 14:50:03 | DSA1066   | 0   | 43508 |
| 26-JUN-2010 15:00:22 | AlpPhe    | 84  | 43509 |
| 26-JUN-2010 15:06:52 | BetGru    | 63  | 43509 |
| 26-JUN-2010 15:08:52 | AlpGru    | 31  | 43509 |
| 26-JUN-2010 15:11:42 | AlpPav    | 45  | 43509 |
| 26-JUN-2010 15:20:46 | 20EpsSgr  | 38  | 43509 |
| 26-JUN-2010 15:22:09 | 19DelSgr  | 116 | 43509 |
| 26-JUN-2010 15:24:18 | 41PiSgr   | 155 | 43509 |
| 26-JUN-2010 15:32:55 | 60BetOph  | 126 | 43509 |
| 26-JUN-2010 15:35:17 | 55AlpOph  | 59  | 43509 |
| 26-JUN-2010 15:44:37 | 3AlpLyr   | 5   | 43509 |
| 26-JUN-2010 15:46:51 | 23BetDra  | 130 | 43509 |
| 26-JUN-2010 15:56:19 | 5AlpCep   | 89  | 43509 |
| 26-JUN-2010 16:03:27 | 11BetCas  | 74  | 43509 |
| 26-JUN-2010 16:05:04 | 18AlpCas  | 68  | 43509 |
| 26-JUN-2010 16:07:35 | 23GamPer  | 160 | 43509 |
| 26-JUN-2010 16:11:00 | 57Gam1And | 73  | 43509 |
| 26-JUN-2010 16:13:29 | 4BetTri   | 173 | 43509 |
| 26-JUN-2010 16:17:29 | 13AlpAri  | 50  | 43509 |
| 26-JUN-2010 16:22:22 | 92AlpCet  | 94  | 43509 |
| 26-JUN-2010 16:30:39 | DSA1066   | 0   | 43509 |
| 26-JUN-2010 16:40:59 | AlpPhe    | 84  | 43510 |
| 26-JUN-2010 16:47:29 | BetGru    | 63  | 43510 |
| 26-JUN-2010 16:49:29 | AlpGru    | 31  | 43510 |
| 26-JUN-2010 16:52:18 | AlpPav    | 45  | 43510 |
| 26-JUN-2010 17:01:22 | 20EpsSgr  | 38  | 43510 |

|                      |           |     |       |
|----------------------|-----------|-----|-------|
| 26-JUN-2010 17:02:46 | 19DelSgr  | 116 | 43510 |
| 26-JUN-2010 17:04:54 | 41PiSgr   | 155 | 43510 |
| 26-JUN-2010 17:13:31 | 60BetOph  | 126 | 43510 |
| 26-JUN-2010 17:15:53 | 55AlpOph  | 59  | 43510 |
| 26-JUN-2010 17:25:13 | 3AlpLyr   | 5   | 43510 |
| 26-JUN-2010 17:27:27 | 23BetDra  | 130 | 43510 |
| 26-JUN-2010 17:36:54 | 5AlpCep   | 89  | 43510 |
| 26-JUN-2010 17:44:03 | 11BetCas  | 74  | 43510 |
| 26-JUN-2010 17:45:39 | 18AlpCas  | 68  | 43510 |
| 26-JUN-2010 17:48:11 | 23GamPer  | 160 | 43510 |
| 26-JUN-2010 17:51:36 | 57Gam1And | 73  | 43510 |
| 26-JUN-2010 17:54:05 | 4BetTri   | 173 | 43510 |
| 26-JUN-2010 17:58:05 | 13AlpAri  | 50  | 43510 |
| 26-JUN-2010 18:02:58 | 92AlpCet  | 94  | 43510 |
| 26-JUN-2010 18:11:16 | DSA1066   | 0   | 43510 |
| 26-JUN-2010 18:21:36 | AlpPhe    | 84  | 43511 |
| 26-JUN-2010 18:28:06 | BetGru    | 63  | 43511 |
| 26-JUN-2010 18:30:06 | AlpGru    | 31  | 43511 |
| 26-JUN-2010 18:32:55 | AlpPav    | 45  | 43511 |
| 26-JUN-2010 18:41:58 | 20EpsSgr  | 38  | 43511 |
| 26-JUN-2010 18:43:22 | 19DelSgr  | 116 | 43511 |
| 26-JUN-2010 18:45:30 | 41PiSgr   | 155 | 43511 |
| 26-JUN-2010 18:54:06 | 60BetOph  | 126 | 43511 |
| 26-JUN-2010 18:56:29 | 55AlpOph  | 59  | 43511 |
| 26-JUN-2010 19:05:48 | 3AlpLyr   | 5   | 43511 |
| 26-JUN-2010 19:08:03 | 23BetDra  | 130 | 43511 |
| 26-JUN-2010 19:17:29 | 5AlpCep   | 89  | 43511 |
| 26-JUN-2010 19:24:38 | 11BetCas  | 74  | 43511 |
| 26-JUN-2010 19:26:15 | 18AlpCas  | 68  | 43511 |
| 26-JUN-2010 19:28:46 | 23GamPer  | 160 | 43511 |
| 26-JUN-2010 19:32:11 | 57Gam1And | 73  | 43511 |
| 26-JUN-2010 19:34:41 | 4BetTri   | 173 | 43511 |
| 26-JUN-2010 19:38:42 | 13AlpAri  | 50  | 43511 |
| 26-JUN-2010 19:43:34 | 92AlpCet  | 94  | 43511 |
| 26-JUN-2010 19:51:53 | DSA1066   | 0   | 43511 |
| 26-JUN-2010 20:02:13 | AlpPhe    | 84  | 43512 |
| 26-JUN-2010 20:08:43 | BetGru    | 63  | 43512 |
| 26-JUN-2010 20:10:43 | AlpGru    | 31  | 43512 |
| 26-JUN-2010 20:13:31 | AlpPav    | 45  | 43512 |

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

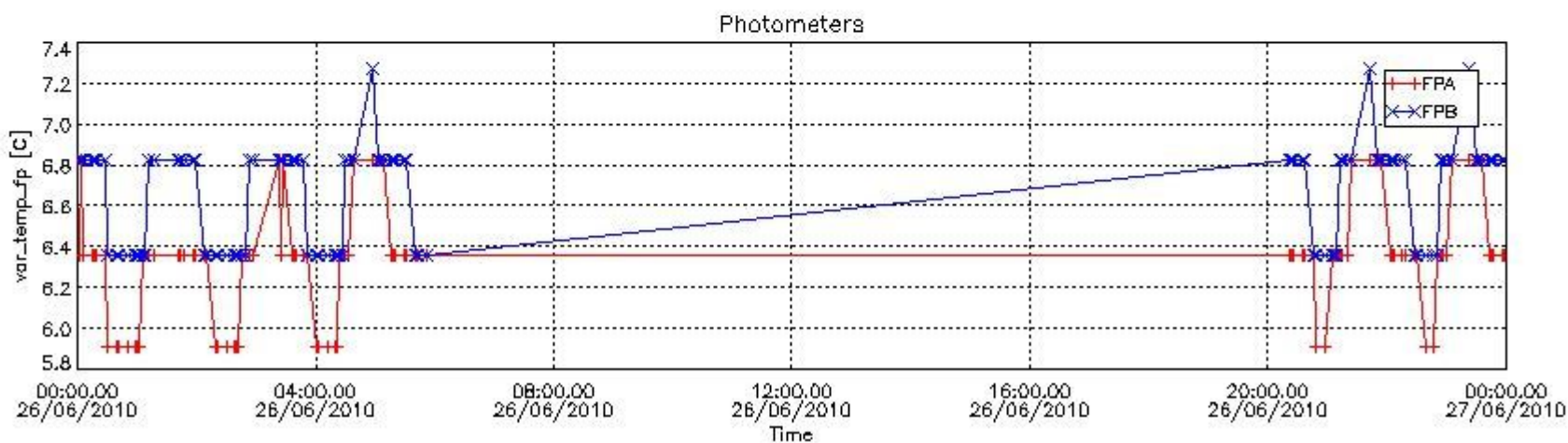
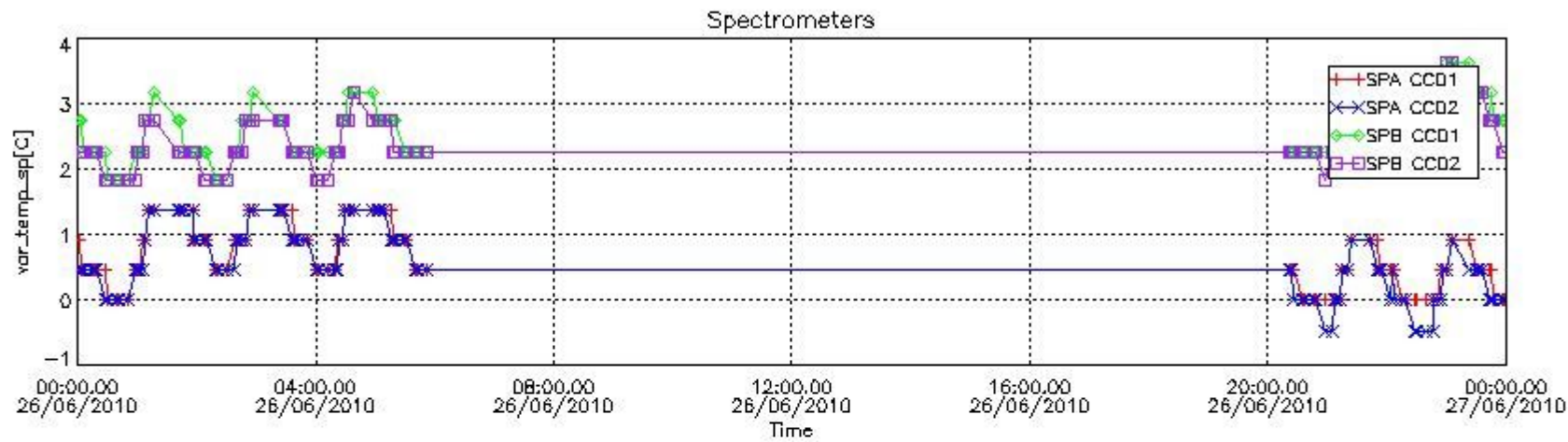
| Nr | Filename   | UTC Start time       | Limb               | Duration | Star Id | Star Name | Star Mag | Star Temp | Nb Meas | Orbit | Prod. error |
|----|--|----------------------|--------------------|----------|---------|-----------|----------|-----------|---------|-------|-------------|
| 1  | GOM_TRA_1PNPDE20100626_000110_000000522090_00360_43500_2095.N1 | 26-JUN-2010 00:01:10 | Straylight         | 52.000   | 63      | Bet Gru   | 2.1500   | 2800.0    | 104     | 43500 | No          |
| 2  | GOM_TRA_1PNPDE20100626_000311_000000502090_00360_43500_2096.N1 | 26-JUN-2010 00:03:11 | Straylight         | 50.000   | 31      | Alp Gru   | 1.7340   | 15200.    | 100     | 43500 | No          |
| 3  | GOM_TRA_1PNPDE20100626_000604_000000422090_00360_43500_2097.N1 | 26-JUN-2010 00:06:04 | Straylight         | 41.500   | 45      | Alp Pav   | 1.9400   | 26000.    | 83      | 43500 | No          |
| 4  | GOM_TRA_1PNPDE20100626_001510_000000452090_00360_43500_2098.N1 | 26-JUN-2010 00:15:10 | Twilight_and_stray | 45.000   | 38      | 20Eps Sgr | 1.8360   | 11000.    | 90      | 43500 | No          |
| 5  | GOM_TRA_1PNPDE20100626_001634_000000532090_00360_43500_2099.N1 | 26-JUN-2010 00:16:34 | Bright             | 53.000   | 116     | 19Del Sgr | 2.7000   | 4100.0    | 106     | 43500 | No          |
| 6  | GOM_TRA_1PNPDE20100626_001843_000000502090_00360_43500_2100.N1 | 26-JUN-2010 00:18:43 | Bright             | 49.500   | 155     | 41Pi Sgr  | 2.9000   | 6600.0    | 99      | 43500 | No          |
| 7  | GOM_TRA_1PNPDE20100626_002723_000000392090_00360_43500_2101.N1 | 26-JUN-2010 00:27:23 | Bright             | 39.000   | 126     | 60Bet Oph | 2.7700   | 4250.0    | 78      | 43500 | No          |
| 8  | GOM_TRA_1PNPDE20100626_002945_000000392090_00360_43500_2102.N1 | 26-JUN-2010 00:29:45 | Bright             | 39.000   | 59      | 55Alp Oph | 2.0800   | 8900.0    | 78      | 43500 | No          |
| 9  | GOM_TRA_1PNPDE20100626_003910_000000432090_00360_43500_2103.N1 | 26-JUN-2010 00:39:10 | Bright             | 42.500   | 5       | 3Alp Lyr  | 0.033000 | 11000.    | 85      | 43500 | No          |
| 10 | GOM_TRA_1PNPDE20100626_004121_000000362090_00360_43500_2104.N1 | 26-JUN-2010 00:41:21 | Bright             | 36.000   | 130     | 23Bet Dra | 2.7990   | 5800.0    | 72      | 43500 | No          |
| 11 | GOM_TRA_1PNPDE20100626_005052_000000492090_00360_43500_2105.N1 | 26-JUN-2010 00:50:52 | Bright             | 48.500   | 89      | 5Alp Cep  | 2.4510   | 8000.0    | 97      | 43500 | No          |
| 12 | GOM_TRA_1PNPDE20100626_005758_000000492090_00360_43500_2106.N1 | 26-JUN-2010 00:57:58 | Bright             | 48.500   | 74      | 11Bet Cas | 2.2680   | 6600.0    | 97      | 43500 | No          |
| 13 | GOM_TRA_1PNPDE20100626_005934_000000472090_00360_43500_2107.N1 | 26-JUN-2010 00:59:34 | Bright             | 47.000   | 68      | 18Alp Cas | 2.2250   | 4500.0    | 94      | 43500 | No          |
| 14 | GOM_TRA_1PNPDE20100626_010202_000000542090_00360_43500_2108.N1 | 26-JUN-2010 01:02:02 | Bright             | 54.000   | 160     | 23Gam Per | 2.9300   | 4700.0    | 108     | 43500 | No          |
| 15 | GOM_TRA_1PNPDE20100626_010527_000000612090_00360_43500_2109.N1 | 26-JUN-2010 01:05:27 | Bright             | 61.000   | 73      | 57Gam1And | 2.2600   | 13100.    | 122     | 43500 | No          |



|    |  |                      |            |        |     |           |          |        |     |       |    |
|----|--|----------------------|------------|--------|-----|-----------|----------|--------|-----|-------|----|
| 16 | GOM_TRA_1PNPDE20100626_010756_000000462090_00360_43500_2110.N1 | 26-JUN-2010 01:07:56 | Twilight   | 46.000 | 173 | 4Bet Tri  | 3.0040   | 8900.0 | 92  | 43500 | No |
| 17 | GOM_TRA_1PNPDE20100626_011154_000000582090_00360_43500_2111.N1 | 26-JUN-2010 01:11:54 | Dark       | 58.000 | 50  | 13Alp Ari | 2.0070   | 4250.0 | 116 | 43500 | No |
| 18 | GOM_TRA_1PNPDE20100626_011646_000000472090_00360_43500_2112.N1 | 26-JUN-2010 01:16:46 | Dark       | 47.000 | 94  | 92Alp Cet | 2.5260   | 3100.0 | 94  | 43500 | No |
| 19 | GOM_TRA_1PNPDE20100626_014147_000000582090_00361_43501_2110.N1 | 26-JUN-2010 01:41:47 | Straylight | 58.000 | 63  | Bet Gru   | 2.1500   | 2800.0 | 116 | 43501 | No |
| 20 | GOM_TRA_1PNPDE20100626_014348_000000512090_00361_43501_2111.N1 | 26-JUN-2010 01:43:48 | Straylight | 50.500 | 31  | Alp Gru   | 1.7340   | 15200. | 101 | 43501 | No |
| 21 | GOM_TRA_1PNPDE20100626_014641_000000452090_00361_43501_2112.N1 | 26-JUN-2010 01:46:41 | Straylight | 44.500 | 45  | Alp Pav   | 1.9400   | 26000. | 89  | 43501 | No |
| 22 | GOM_TRA_1PNPDE20100626_015546_000000452090_00361_43501_2113.N1 | 26-JUN-2010 01:55:46 | Twilight   | 45.000 | 38  | 20Eps Sgr | 1.8360   | 11000. | 90  | 43501 | No |
| 23 | GOM_TRA_1PNPDE20100626_015710_000000472090_00361_43501_2114.N1 | 26-JUN-2010 01:57:10 | Bright     | 46.500 | 116 | 19Del Sgr | 2.7000   | 4100.0 | 93  | 43501 | No |
| 24 | GOM_TRA_1PNPDE20100626_015919_000000492090_00361_43501_2115.N1 | 26-JUN-2010 01:59:19 | Bright     | 48.500 | 155 | 41Pi Sgr  | 2.9000   | 6600.0 | 97  | 43501 | No |
| 25 | GOM_TRA_1PNPDE20100626_020759_000000382090_00361_43501_2116.N1 | 26-JUN-2010 02:07:59 | Bright     | 38.000 | 126 | 60Bet Oph | 2.7700   | 4250.0 | 76  | 43501 | No |
| 26 | GOM_TRA_1PNPDE20100626_021021_000000382090_00361_43501_2117.N1 | 26-JUN-2010 02:10:21 | Bright     | 38.000 | 59  | 55Alp Oph | 2.0800   | 8900.0 | 76  | 43501 | No |
| 27 | GOM_TRA_1PNPDE20100626_021945_000000502090_00361_43501_2118.N1 | 26-JUN-2010 02:19:45 | Bright     | 50.000 | 5   | 3Alp Lyr  | 0.033000 | 11000. | 100 | 43501 | No |
| 28 | GOM_TRA_1PNPDE20100626_022156_000000372090_00361_43501_2119.N1 | 26-JUN-2010 02:21:56 | Bright     | 37.000 | 130 | 23Bet Dra | 2.7990   | 5800.0 | 74  | 43501 | No |
| 29 | GOM_TRA_1PNPDE20100626_023127_000000442090_00361_43501_2120.N1 | 26-JUN-2010 02:31:27 | Bright     | 43.500 | 89  | 5Alp Cep  | 2.4510   | 8000.0 | 87  | 43501 | No |
| 30 | GOM_TRA_1PNPDE20100626_023834_000000482090_00361_43501_2137.N1 | 26-JUN-2010 02:38:34 | Bright     | 48.000 | 74  | 11Bet Cas | 2.2680   | 6600.0 | 96  | 43501 | No |
| 31 | GOM_TRA_1PNPDE20100626_024010_000000502090_00361_43501_2138.N1 | 26-JUN-2010 02:40:10 | Bright     | 49.500 | 68  | 18Alp Cas | 2.2250   | 4500.0 | 99  | 43501 | No |
| 32 | GOM_TRA_1PNPDE20100626_024238_000000542090_00361_43501_2139.N1 | 26-JUN-2010 02:42:38 | Bright     | 54.000 | 160 | 23Gam Per | 2.9300   | 4700.0 | 108 | 43501 | No |
| 33 | GOM_TRA_1PNPDE20100626_024603_000000472090_00361_43501_2140.N1 | 26-JUN-2010 02:46:03 | Bright     | 47.000 | 73  | 57Gam1And | 2.2600   | 13100. | 94  | 43501 | No |
| 34 | GOM_TRA_1PNPDE20100626_024832_000000462090_00361_43501_2141.N1 | 26-JUN-2010 02:48:32 | Twilight   | 46.000 | 173 | 4Bet Tri  | 3.0040   | 8900.0 | 92  | 43501 | No |
| 35 | GOM_TRA_1PNPDE20100626_025230_000000532090_00361_43501_2142.N1 | 26-JUN-2010 02:52:30 | Dark       | 52.500 | 50  | 13Alp Ari | 2.0070   | 4250.0 | 105 | 43501 | No |
| 36 | GOM_TRA_1PNPDE20100626_025722_000000452090_00361_43501_2143.N1 | 26-JUN-2010 02:57:22 | Dark       | 45.000 | 94  | 92Alp Cet | 2.5260   | 3100.0 | 90  | 43501 | No |
| 37 | GOM_TRA_1PNPDE20100626_032224_000000532090_00362_43502_2144.N1 | 26-JUN-2010 03:22:24 | Straylight | 52.500 | 63  | Bet Gru   | 2.1500   | 2800.0 | 105 | 43502 | No |
| 38 | GOM_TRA_1PNPDE20100626_032425_000000482090_00362_43502_2145.N1 | 26-JUN-2010 03:24:25 | Straylight | 48.000 | 31  | Alp Gru   | 1.7340   | 15200. | 96  | 43502 | No |
| 39 | GOM_TRA_1PNPDE20100626_032717_000000432090_00362_43502_2146.N1 | 26-JUN-2010 03:27:17 | Straylight | 43.000 | 45  | Alp Pav   | 1.9400   | 26000. | 86  | 43502 | No |
| 40 | GOM_TRA_1PNPDE20100626_033623_000000482090_00362_43502_2147.N1 | 26-JUN-2010 03:36:23 | Twilight   | 47.500 | 38  | 20Eps Sgr | 1.8360   | 11000. | 95  | 43502 | No |
| 41 | GOM_TRA_1PNPDE20100626_033747_000000532090_00362_43502_2148.N1 | 26-JUN-2010 03:37:47 | Bright     | 53.000 | 116 | 19Del Sgr | 2.7000   | 4100.0 | 106 | 43502 | No |
| 42 | GOM_TRA_1PNPDE20100626_033955_000000492090_00362_43502_2149.N1 | 26-JUN-2010 03:39:55 | Bright     | 49.000 | 155 | 41Pi Sgr  | 2.9000   | 6600.0 | 98  | 43502 | No |
| 43 | GOM_TRA_1PNPDE20100626_034835_000000392090_00362_43502_2150.N1 | 26-JUN-2010 03:48:35 | Bright     | 38.500 | 126 | 60Bet Oph | 2.7700   | 4250.0 | 77  | 43502 | No |
| 44 | GOM_TRA_1PNPDE20100626_035057_000000392090_00362_43502_2151.N1 | 26-JUN-2010 03:50:57 | Bright     | 38.500 | 59  | 55Alp Oph | 2.0800   | 8900.0 | 77  | 43502 | No |
| 45 | GOM_TRA_1PNPDE20100626_040021_000000502090_00362_43502_2152.N1 | 26-JUN-2010 04:00:21 | Bright     | 49.500 | 5   | 3Alp Lyr  | 0.033000 | 11000. | 99  | 43502 | No |
| 46 | GOM_TRA_1PNPDE20100626_040232_000000372090_00362_43502_2153.N1 | 26-JUN-2010 04:02:32 | Bright     | 37.000 | 130 | 23Bet Dra | 2.7990   | 5800.0 | 74  | 43502 | No |
| 47 | GOM_TRA_1PNPDE20100626_041203_000000462090_00362_43502_2154.N1 | 26-JUN-2010 04:12:03 | Bright     | 46.000 | 89  | 5Alp Cep  | 2.4510   | 8000.0 | 92  | 43502 | No |
| 48 | GOM_TRA_1PNPDE20100626_041910_000000472090_00362_43502_2163.N1 | 26-JUN-2010 04:19:10 | Bright     | 46.500 | 74  | 11Bet Cas | 2.2680   | 6600.0 | 93  | 43502 | No |
| 49 | GOM_TRA_1PNPDE20100626_042045_000000482090_00362_43502_2164.N1 | 26-JUN-2010 04:20:45 | Bright     | 48.000 | 68  | 18Alp Cas | 2.2250   | 4500.0 | 96  | 43502 | No |
| 50 | GOM_TRA_1PNPDE20100626_042314_000000542090_00362_43502_2165.N1 | 26-JUN-2010 04:23:14 | Bright     | 54.000 | 160 | 23Gam Per | 2.9300   | 4700.0 | 108 | 43502 | No |
| 51 | GOM_TRA_1PNPDE20100626_042639_000000612090_00362_43502_2166.N1 | 26-JUN-2010 04:26:39 | Bright     | 61.000 | 73  | 57Gam1And | 2.2600   | 13100. | 122 | 43502 | No |
| 52 | GOM_TRA_1PNPDE20100626_042908_000000462090_00362_43502_2167.N1 | 26-JUN-2010 04:29:08 | Twilight   | 45.500 | 173 | 4Bet Tri  | 3.0040   | 8900.0 | 91  | 43502 | No |
| 53 | GOM_TRA_1PNPDE20100626_043306_000000552090_00362_43502_2168.N1 | 26-JUN-2010 04:33:06 | Dark       | 54.500 | 50  | 13Alp Ari | 2.0070   | 4250.0 | 109 | 43502 | No |
| 54 | GOM_TRA_1PNPDE20100626_043758_000000432090_00362_43502_2169.N1 | 26-JUN-2010 04:37:58 | Dark       | 43.000 | 94  | 92Alp Cet | 2.5260   | 3100.0 | 86  | 43502 | No |
| 55 | GOM_TRA_1PNPDE20100626_045632_000000552090_00363_43503_2170.N1 | 26-JUN-2010 04:56:32 | Dark       | 54.500 | 84  | Alp Phe   | 2.3970   | 4500.0 | 109 | 43503 | No |
| 56 | GOM_TRA_1PNPDE20100626_050301_000000512090_00363_43503_2171.N1 | 26-JUN-2010 05:03:01 | Straylight | 51.000 | 63  | Bet Gru   | 2.1500   | 2800.0 | 102 | 43503 | No |
| 57 | GOM_TRA_1PNPDE20100626_050502_000000482090_00363_43503_2172.N1 | 26-JUN-2010 05:05:02 | Straylight | 48.000 | 31  | Alp Gru   | 1.7340   | 15200. | 96  | 43503 | No |
| 58 | GOM_TRA_1PNPDE20100626_050754_000000432090_00363_43503_2173.N1 | 26-JUN-2010 05:07:54 | Straylight | 43.000 | 45  | Alp Pav   | 1.9400   | 26000. | 86  | 43503 | No |
| 59 | GOM_TRA_1PNPDE20100626_051659_000000462090_00363_43503_2174.N1 | 26-JUN-2010 05:16:59 | Twilight   | 46.000 | 38  | 20Eps Sgr | 1.8360   | 11000. | 92  | 43503 | No |
| 60 | GOM_TRA_1PNPDE20100626_051823_000000442090_00363_43503_2175.N1 | 26-JUN-2010 05:18:23 | Bright     | 43.500 | 116 | 19Del Sgr | 2.7000   | 4100.0 | 87  | 43503 | No |
| 61 | GOM_TRA_1PNPDE20100626_052031_000000512090_00363_43503_2176.N1 | 26-JUN-2010 05:20:31 | Bright     | 50.500 | 155 | 41Pi Sgr  | 2.9000   | 6600.0 | 101 | 43503 | No |
| 62 | GOM_TRA_1PNPDE20100626_052910_000000402090_00363_43503_2177.N1 | 26-JUN-2010 05:29:10 | Bright     | 39.500 | 126 | 60Bet Oph | 2.7700   | 4250.0 | 79  | 43503 | No |
| 63 | GOM_TRA_1PNPDE20100626_053133_000000402090_00363_43503_2178.N1 | 26-JUN-2010 05:31:33 | Bright     | 40.000 | 59  | 55Alp Oph | 2.0800   | 8900.0 | 80  | 43503 | No |
| 64 | GOM_TRA_1PNPDE20100626_054056_000000512090_00363_43503_2179.N1 | 26-JUN-2010 05:40:56 | Bright     | 50.500 | 5   | 3Alp Lyr  | 0.033000 | 11000. | 101 | 43503 | No |
| 65 | GOM_TRA_1PNPDE20100626_054308_000000402090_00363_43503_2180.N1 | 26-JUN-2010 05:43:08 | Bright     | 39.500 | 130 | 23Bet Dra | 2.7990   | 5800.0 | 79  | 43503 | No |
| 66 | GOM_TRA_1PNPDE20100626_055238_000000472090_00363_43503_2181.N1 | 26-JUN-2010 05:52:38 | Bright     | 46.500 | 89  | 5Alp Cep  | 2.4510   | 8000.0 | 93  | 43503 | No |
| 67 | GOM_TRA_1PNPDE20100626_202225_000000452090_00372_43512_2282.N1 | 26-JUN-2010 20:22:25 | Twilight   | 45.000 | 38  | 20Eps Sgr | 1.8360   | 11000. | 90  | 43512 | No |
| 68 | GOM_TRA_1PNPDE20100626_202349_000000462090_00372_43512_2283.N1 | 26-JUN-2010 20:23:49 | Bright     | 45.500 | 116 | 19Del Sgr | 2.7000   | 4100.0 | 91  | 43512 | No |
| 69 | GOM_TRA_1PNPDE20100626_202557_000000482090_00372_43512_2284.N1 | 26-JUN-2010 20:25:57 | Bright     | 47.500 | 155 | 41Pi Sgr  | 2.9000   | 6600.0 | 95  | 43512 | No |
| 70 | GOM_TRA_1PNPDE20100626_203433_000000402090_00372_43512_2285.N1 | 26-JUN-2010 20:34:33 | Bright     | 40.000 | 126 | 60Bet Oph | 2.7700   | 4250.0 | 80  | 43512 | No |
| 71 | GOM_TRA_1PNPDE20100626_203655_000000412090_00372_43512_2286.N1 | 26-JUN-2010 20:36:55 | Bright     | 40.500 | 59  | 55Alp Oph | 2.0800   | 8900.0 | 81  | 43512 | No |
| 72 | GOM_TRA_1PNPDE20100626_204614_000000492090_00372_43512_2287.N1 | 26-JUN-2010 20:46:14 | Bright     | 49.000 | 5   | 3Alp Lyr  | 0.033000 | 11000. | 98  | 43512 | No |
| 73 | GOM_TRA_1PNPDE20100626_204829_000000402090_00372_43512_2288.N1 | 26-JUN-2010 20:48:29 | Bright     | 39.500 | 130 | 23Bet Dra | 2.7990   | 5800.0 | 79  | 43512 | No |
| 74 | GOM_TRA_1PNPDE20100626_205755_000000462090_00372_43512_2289.N1 | 26-JUN-2010 20:57:55 | Bright     | 46.000 | 89  | 5Alp Cep  | 2.4510   | 8000.0 | 92  | 43512 | No |

|     |  |                      |            |        |     |           |          |        |     |       |    |
|-----|--|----------------------|------------|--------|-----|-----------|----------|--------|-----|-------|----|
| 75  | GOM_TRA_1PNPDE20100626_210505_000000492090_00372_43512_2290.N1 | 26-JUN-2010 21:05:05 | Bright     | 48.500 | 74  | 11Bet Cas | 2.2680   | 6600.0 | 97  | 43512 | No |
| 76  | GOM_TRA_1PNPDE20100626_210641_000000482090_00372_43512_2291.N1 | 26-JUN-2010 21:06:41 | Bright     | 48.000 | 68  | 18Alp Cas | 2.2250   | 4500.0 | 96  | 43512 | No |
| 77  | GOM_TRA_1PNPDE20100626_210913_000000542090_00372_43512_2292.N1 | 26-JUN-2010 21:09:13 | Bright     | 54.000 | 160 | 23Gam Per | 2.9300   | 4700.0 | 108 | 43512 | No |
| 78  | GOM_TRA_1PNPDE20100626_211238_000000452090_00372_43512_2293.N1 | 26-JUN-2010 21:12:38 | Bright     | 45.000 | 73  | 57Gam1And | 2.2600   | 13100. | 90  | 43512 | No |
| 79  | GOM_TRA_1PNPDE20100626_211508_000000492090_00372_43512_2294.N1 | 26-JUN-2010 21:15:08 | Twilight   | 48.500 | 173 | 4Bet Tri  | 3.0040   | 8900.0 | 97  | 43512 | No |
| 80  | GOM_TRA_1PNPDE20100626_211908_000000572090_00372_43512_2295.N1 | 26-JUN-2010 21:19:08 | Dark       | 57.000 | 50  | 13Alp Ari | 2.0070   | 4250.0 | 114 | 43512 | No |
| 81  | GOM_TRA_1PNPDE20100626_212401_000000452090_00372_43512_2296.N1 | 26-JUN-2010 21:24:01 | Dark       | 45.000 | 94  | 92Alp Cet | 2.5260   | 3100.0 | 90  | 43512 | No |
| 82  | GOM_TRA_1PNPDE20100626_214240_000000482090_00373_43513_2302.N1 | 26-JUN-2010 21:42:40 | Dark       | 47.500 | 84  | Alp Phe   | 2.3970   | 4500.0 | 95  | 43513 | No |
| 83  | GOM_TRA_1PNPDE20100626_214910_000000522090_00373_43513_2303.N1 | 26-JUN-2010 21:49:10 | Straylight | 51.500 | 63  | Bet Gru   | 2.1500   | 2800.0 | 103 | 43513 | No |
| 84  | GOM_TRA_1PNPDE20100626_215110_000000492090_00373_43513_2304.N1 | 26-JUN-2010 21:51:10 | Straylight | 48.500 | 31  | Alp Gru   | 1.7340   | 15200. | 97  | 43513 | No |
| 85  | GOM_TRA_1PNPDE20100626_215358_000000492090_00373_43513_2305.N1 | 26-JUN-2010 21:53:58 | Straylight | 48.500 | 45  | Alp Pav   | 1.9400   | 26000. | 97  | 43513 | No |
| 86  | GOM_TRA_1PNPDE20100626_220301_000000442090_00373_43513_2306.N1 | 26-JUN-2010 22:03:01 | Twilight   | 44.000 | 38  | 20Eps Sgr | 1.8360   | 11000. | 88  | 43513 | No |
| 87  | GOM_TRA_1PNPDE20100626_220425_000000492090_00373_43513_2307.N1 | 26-JUN-2010 22:04:25 | Bright     | 49.000 | 116 | 19Del Sgr | 2.7000   | 4100.0 | 98  | 43513 | No |
| 88  | GOM_TRA_1PNPDE20100626_220633_000000492090_00373_43513_2308.N1 | 26-JUN-2010 22:06:33 | Bright     | 48.500 | 155 | 41Pi Sgr  | 2.9000   | 6600.0 | 97  | 43513 | No |
| 89  | GOM_TRA_1PNPDE20100626_221509_000000402090_00373_43513_2309.N1 | 26-JUN-2010 22:15:09 | Bright     | 40.000 | 126 | 60Bet Oph | 2.7700   | 4250.0 | 80  | 43513 | No |
| 90  | GOM_TRA_1PNPDE20100626_221731_000000382090_00373_43513_2310.N1 | 26-JUN-2010 22:17:31 | Bright     | 37.500 | 59  | 55Alp Oph | 2.0800   | 8900.0 | 75  | 43513 | No |
| 91  | GOM_TRA_1PNPDE20100626_222649_000000502090_00373_43513_2311.N1 | 26-JUN-2010 22:26:49 | Bright     | 50.000 | 5   | 3Alp Lyr  | 0.033000 | 11000. | 100 | 43513 | No |
| 92  | GOM_TRA_1PNPDE20100626_222905_000000412090_00373_43513_2312.N1 | 26-JUN-2010 22:29:05 | Bright     | 41.000 | 130 | 23Bet Dra | 2.7990   | 5800.0 | 82  | 43513 | No |
| 93  | GOM_TRA_1PNPDE20100626_223830_000000482090_00373_43513_2313.N1 | 26-JUN-2010 22:38:30 | Bright     | 47.500 | 89  | 5Alp Cep  | 2.4510   | 8000.0 | 95  | 43513 | No |
| 94  | GOM_TRA_1PNPDE20100626_224540_000000482090_00373_43513_2314.N1 | 26-JUN-2010 22:45:40 | Bright     | 47.500 | 74  | 11Bet Cas | 2.2680   | 6600.0 | 95  | 43513 | No |
| 95  | GOM_TRA_1PNPDE20100626_224717_000000462090_00373_43513_2315.N1 | 26-JUN-2010 22:47:17 | Bright     | 45.500 | 68  | 18Alp Cas | 2.2250   | 4500.0 | 91  | 43513 | No |
| 96  | GOM_TRA_1PNPDE20100626_224949_000000542090_00373_43513_2316.N1 | 26-JUN-2010 22:49:49 | Bright     | 54.000 | 160 | 23Gam Per | 2.9300   | 4700.0 | 108 | 43513 | No |
| 97  | GOM_TRA_1PNPDE20100626_225314_000000462090_00373_43513_2317.N1 | 26-JUN-2010 22:53:14 | Bright     | 46.000 | 73  | 57Gam1And | 2.2600   | 13100. | 92  | 43513 | No |
| 98  | GOM_TRA_1PNPDE20100626_225544_000000482090_00373_43513_2318.N1 | 26-JUN-2010 22:55:44 | Twilight   | 48.000 | 173 | 4Bet Tri  | 3.0040   | 8900.0 | 96  | 43513 | No |
| 99  | GOM_TRA_1PNPDE20100626_225945_000000622090_00373_43513_2319.N1 | 26-JUN-2010 22:59:45 | Dark       | 62.000 | 50  | 13Alp Ari | 2.0070   | 4250.0 | 124 | 43513 | No |
| 100 | GOM_TRA_1PNPDE20100626_230438_000000462090_00373_43513_2320.N1 | 26-JUN-2010 23:04:38 | Dark       | 45.500 | 94  | 92Alp Cet | 2.5260   | 3100.0 | 91  | 43513 | No |
| 101 | GOM_TRA_1PNPDE20100626_232317_000000572090_00374_43514_2320.N1 | 26-JUN-2010 23:23:17 | Dark       | 57.000 | 84  | Alp Phe   | 2.3970   | 4500.0 | 114 | 43514 | No |
| 102 | GOM_TRA_1PNPDE20100626_232947_000000532090_00374_43514_2321.N1 | 26-JUN-2010 23:29:47 | Straylight | 53.000 | 63  | Bet Gru   | 2.1500   | 2800.0 | 106 | 43514 | No |
| 103 | GOM_TRA_1PNPDE20100626_233147_000000512090_00374_43514_2322.N1 | 26-JUN-2010 23:31:47 | Straylight | 50.500 | 31  | Alp Gru   | 1.7340   | 15200. | 101 | 43514 | No |
| 104 | GOM_TRA_1PNPDE20100626_233435_000000402090_00374_43514_2323.N1 | 26-JUN-2010 23:34:35 | Straylight | 40.000 | 45  | Alp Pav   | 1.9400   | 26000. | 80  | 43514 | No |
| 105 | GOM_TRA_1PNPDE20100626_234337_000000442090_00374_43514_2324.N1 | 26-JUN-2010 23:43:37 | Twilight   | 44.000 | 38  | 20Eps Sgr | 1.8360   | 11000. | 88  | 43514 | No |
| 106 | GOM_TRA_1PNPDE20100626_234501_000000532090_00374_43514_2325.N1 | 26-JUN-2010 23:45:01 | Bright     | 52.500 | 116 | 19Del Sgr | 2.7000   | 4100.0 | 105 | 43514 | No |
| 107 | GOM_TRA_1PNPDE20100626_234709_000000492090_00374_43514_2326.N1 | 26-JUN-2010 23:47:09 | Bright     | 49.000 | 155 | 41Pi Sgr  | 2.9000   | 6600.0 | 98  | 43514 | No |
| 108 | GOM_TRA_1PNPDE20100626_235545_000000402090_00374_43514_2327.N1 | 26-JUN-2010 23:55:45 | Bright     | 40.000 | 126 | 60Bet Oph | 2.7700   | 4250.0 | 80  | 43514 | No |
| 109 | GOM_TRA_1PNPDE20100626_235807_000000412090_00374_43514_2328.N1 | 26-JUN-2010 23:58:07 | Bright     | 41.000 | 59  | 55Alp Oph | 2.0800   | 8900.0 | 82  | 43514 | 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).

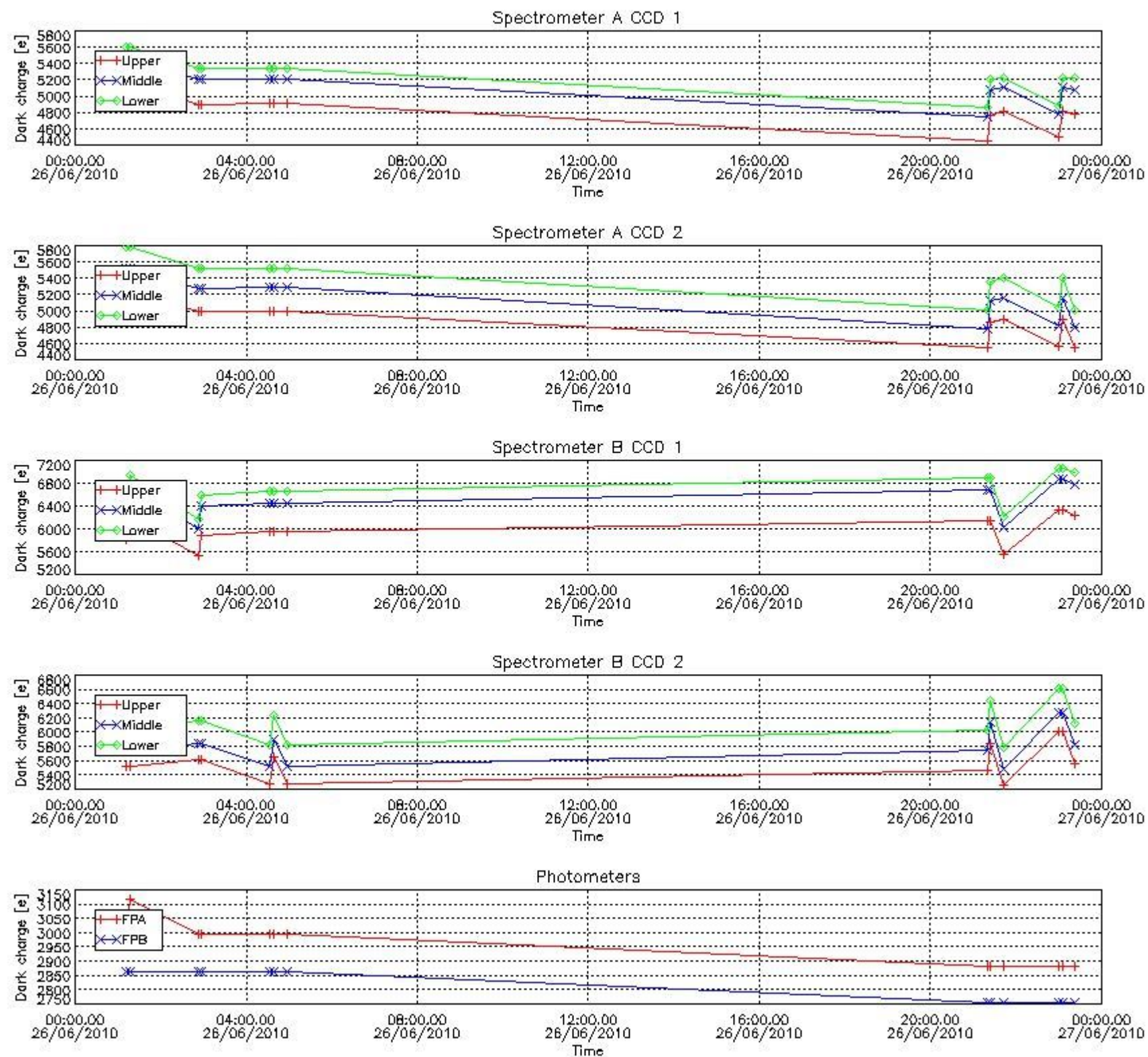
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

| Product name   | DC information |
|--|----------------|
| GOM_TRA_1PNPDE20100626_202225_000000452090_00372_43512_2282.N1 | DC map used    |
| GOM_TRA_1PNPDE20100626_202349_000000462090_00372_43512_2283.N1 | DC map used    |
| GOM_TRA_1PNPDE20100626_202557_000000482090_00372_43512_2284.N1 | DC map used    |
| GOM_TRA_1PNPDE20100626_203433_000000402090_00372_43512_2285.N1 | DC map used    |
| GOM_TRA_1PNPDE20100626_203655_000000412090_00372_43512_2286.N1 | DC map used    |
| GOM_TRA_1PNPDE20100626_204614_000000492090_00372_43512_2287.N1 | DC map used    |
| GOM_TRA_1PNPDE20100626_204829_000000402090_00372_43512_2288.N1 | DC map used    |
| GOM_TRA_1PNPDE20100626_205755_000000462090_00372_43512_2289.N1 | DC map used    |
| GOM_TRA_1PNPDE20100626_210505_000000492090_00372_43512_2290.N1 | DC map used    |
| GOM_TRA_1PNPDE20100626_210641_000000482090_00372_43512_2291.N1 | DC map used    |
| GOM_TRA_1PNPDE20100626_210913_000000542090_00372_43512_2292.N1 | DC map used    |
| GOM_TRA_1PNPDE20100626_211238_000000452090_00372_43512_2293.N1 | DC map used    |
| GOM_TRA_1PNPDE20100626_211508_000000492090_00372_43512_2294.N1 | DC map used    |
| GOM_TRA_1PNPDE20100626_211908_000000572090_00372_43512_2295.N1 | DC map used    |



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



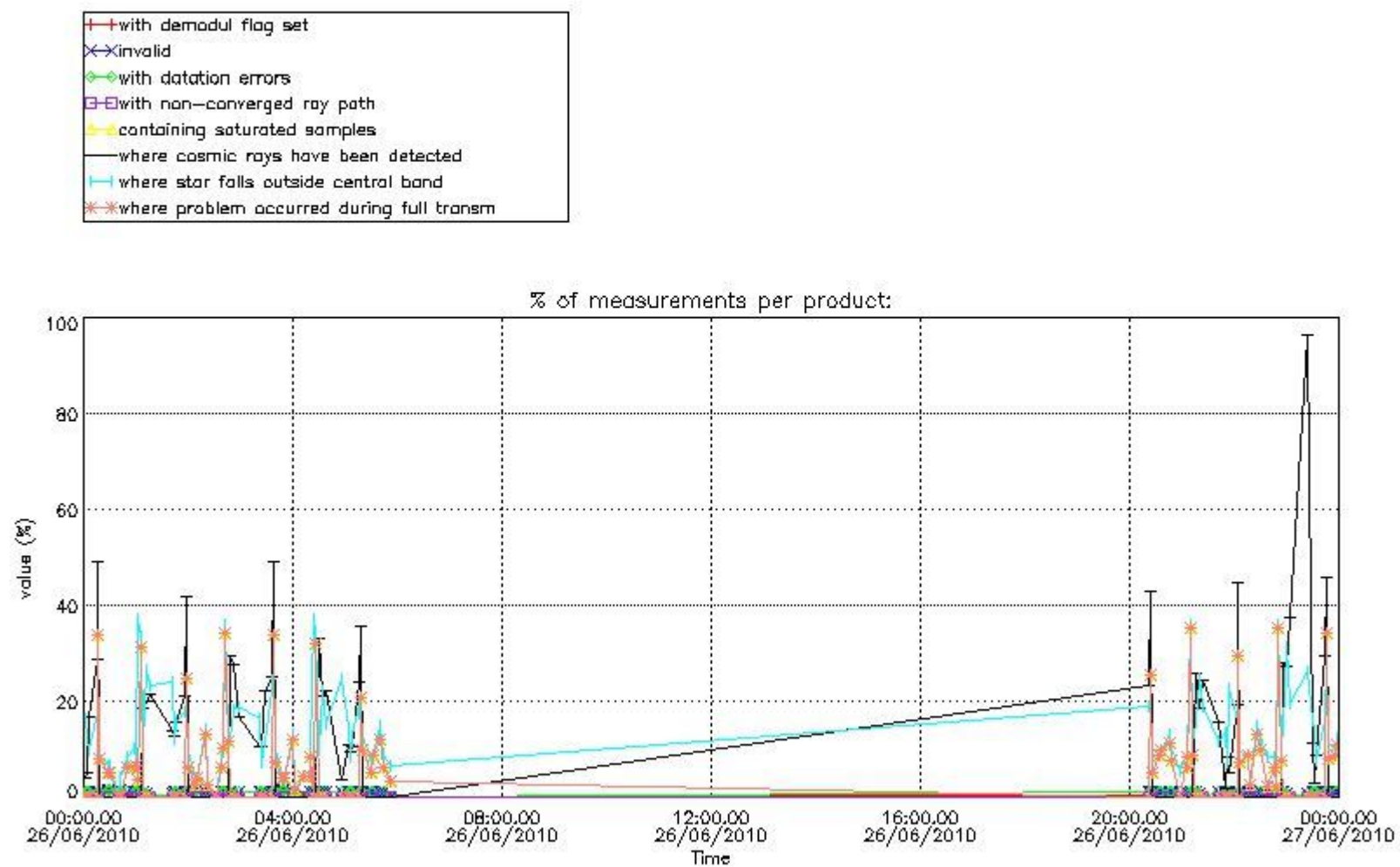
#### 5. Demodulation flag and quality information monitoring

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:

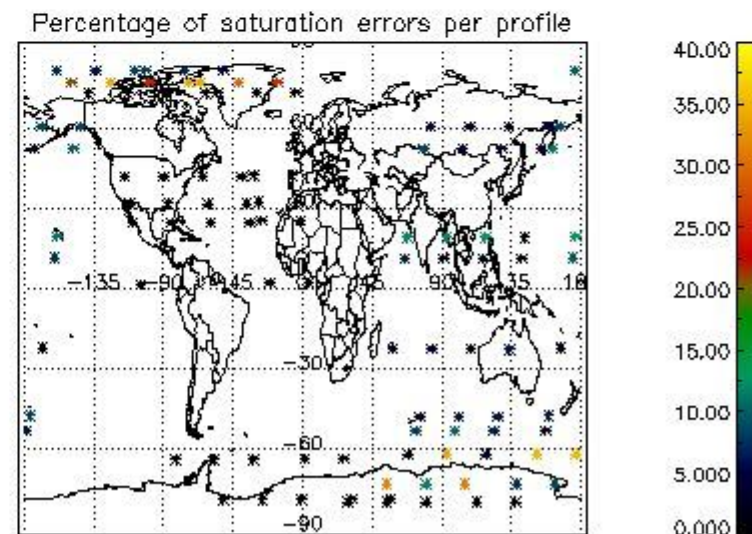
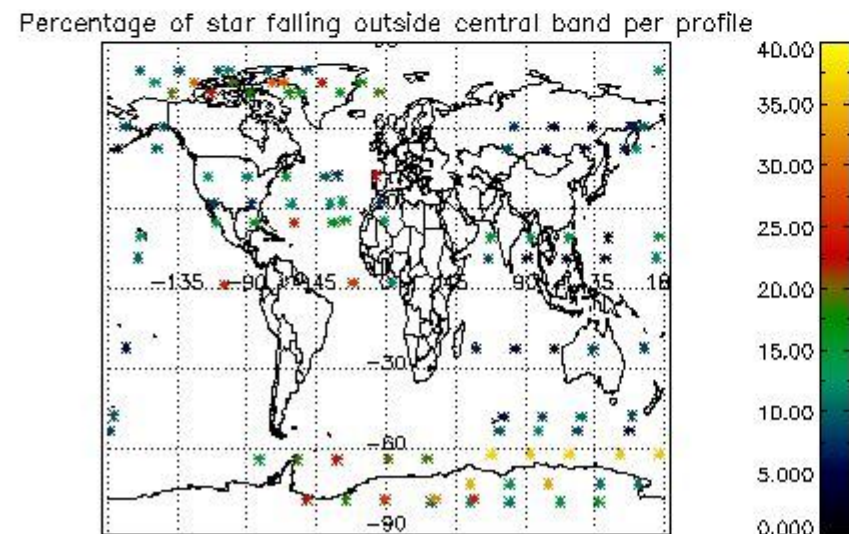
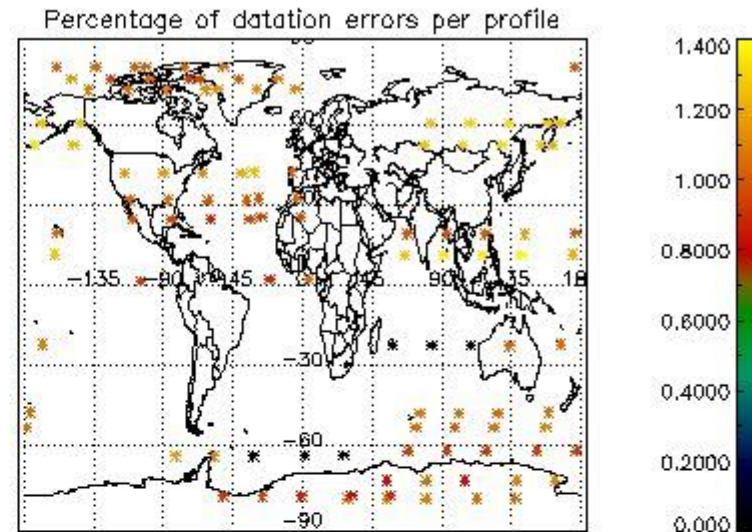
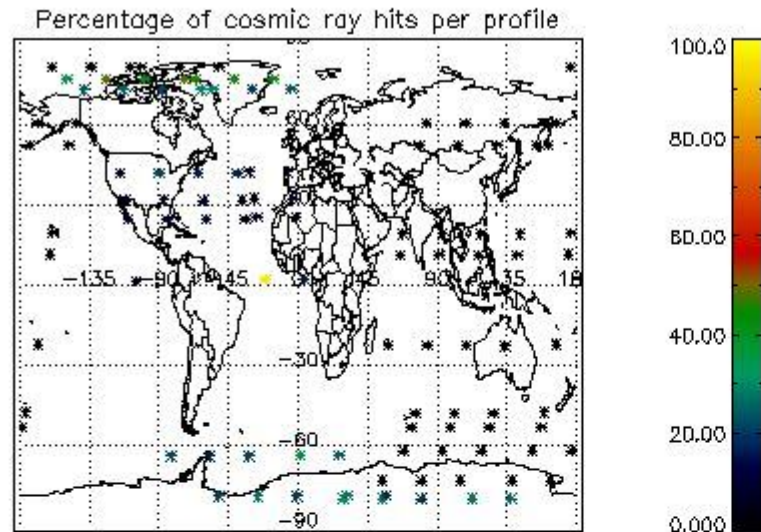
|   |           |
|---|-----------|
| At least one measurement with demodulation flag set:  | 37.6147 % |
| Reference spectrum computed from DB:                  | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used:                                   | 0.00000 % |

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





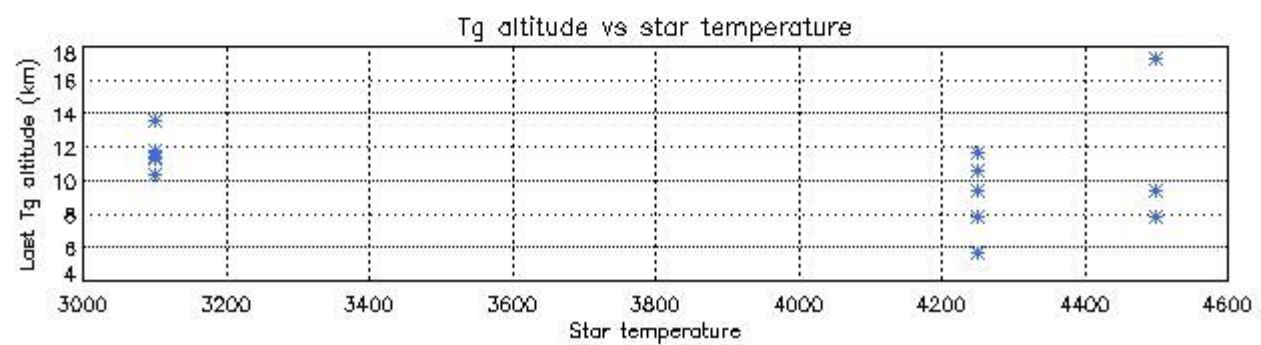
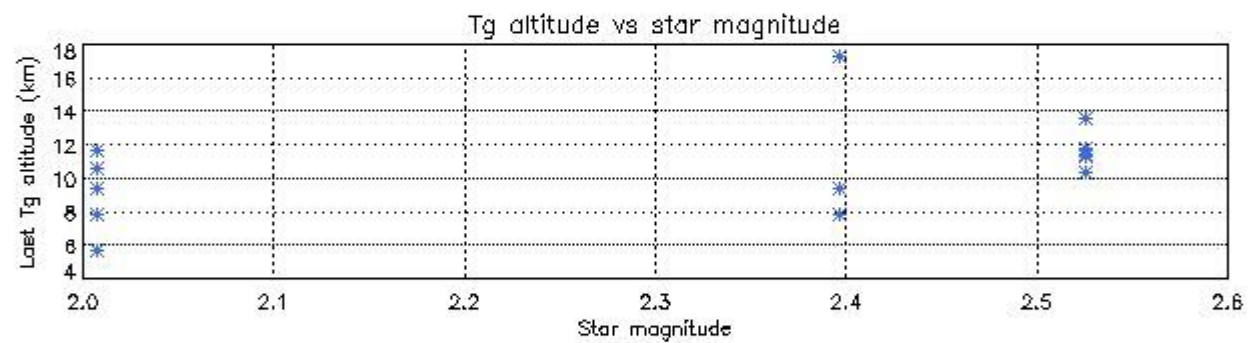
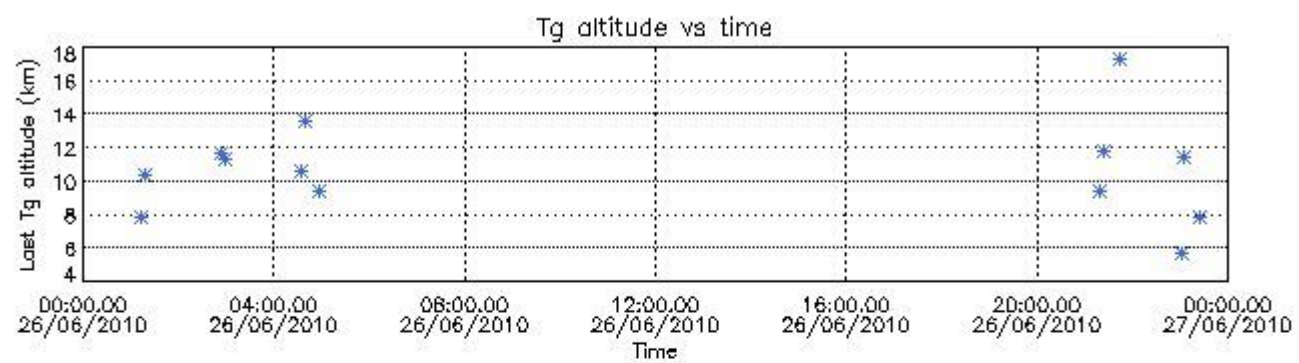
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

| Statistics      | DARK   | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean:           | 10.609 | 16.972 | NaN      |
| St. deviation:  | 2.8833 | 5.9194 | NaN      |
| Maximum:        | 17.254 | 27.484 | NaN      |
| Minimum:        | 5.6741 | 4.1113 | NaN      |
| Number of data: | 13.000 | 66.000 | NaN      |

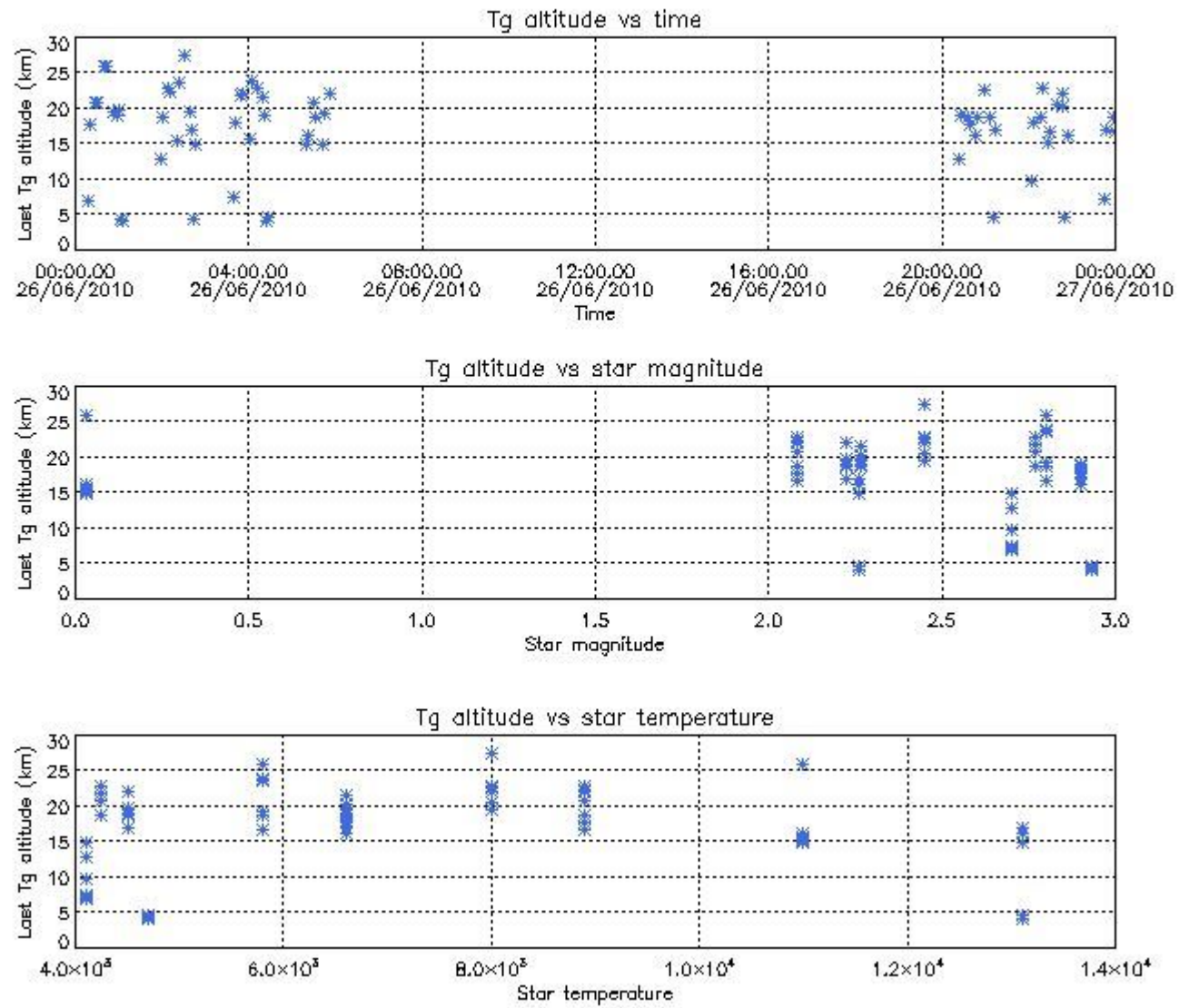
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost



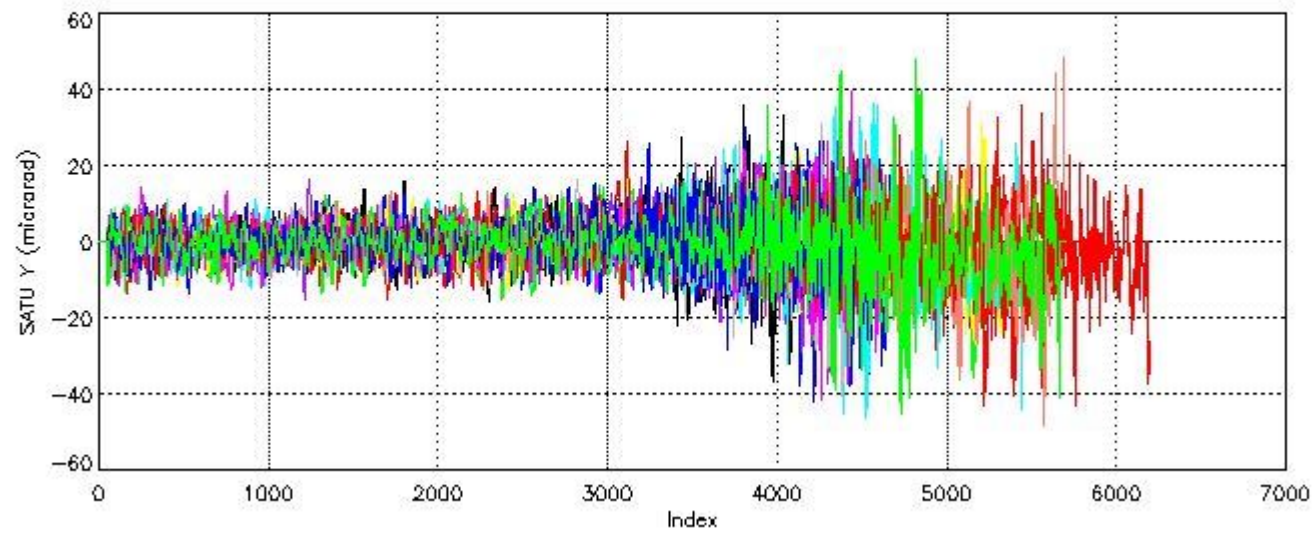
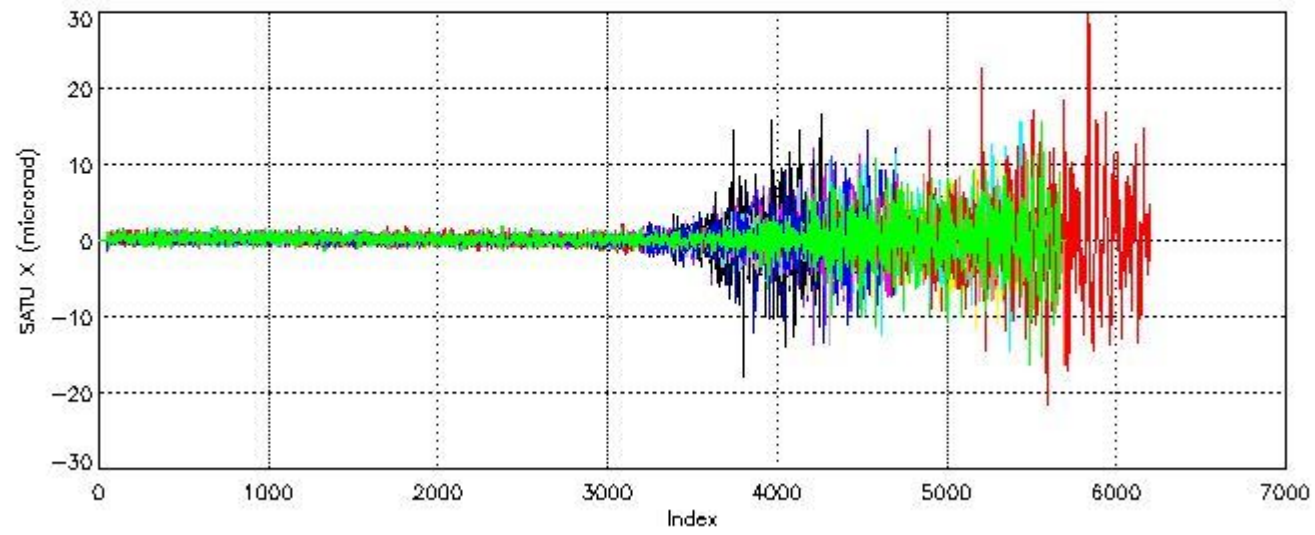
## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.





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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

| Statistics     | SATU X (D) | SATU Y (D) | SATU X (B) | SATU Y (B) |
|----------------|------------|------------|------------|------------|
| Mean:          | 0.15835    | -0.50368   | 0.22426    | -0.56879   |
| St. deviation: | 0.33110    | 3.8125     | 0.68911    | 3.6515     |
| Maximum:       | 1.8000     | 14.200     | 4.1000     | 13.400     |
| Minimum:       | -1.5000    | -13.700    | -4.1000    | -17.600    |

|                 |        |        |        |        |
|-----------------|--------|--------|--------|--------|
| Number of data: | 13000. | 13000. | 66950. | 66950. |
|-----------------|--------|--------|--------|--------|

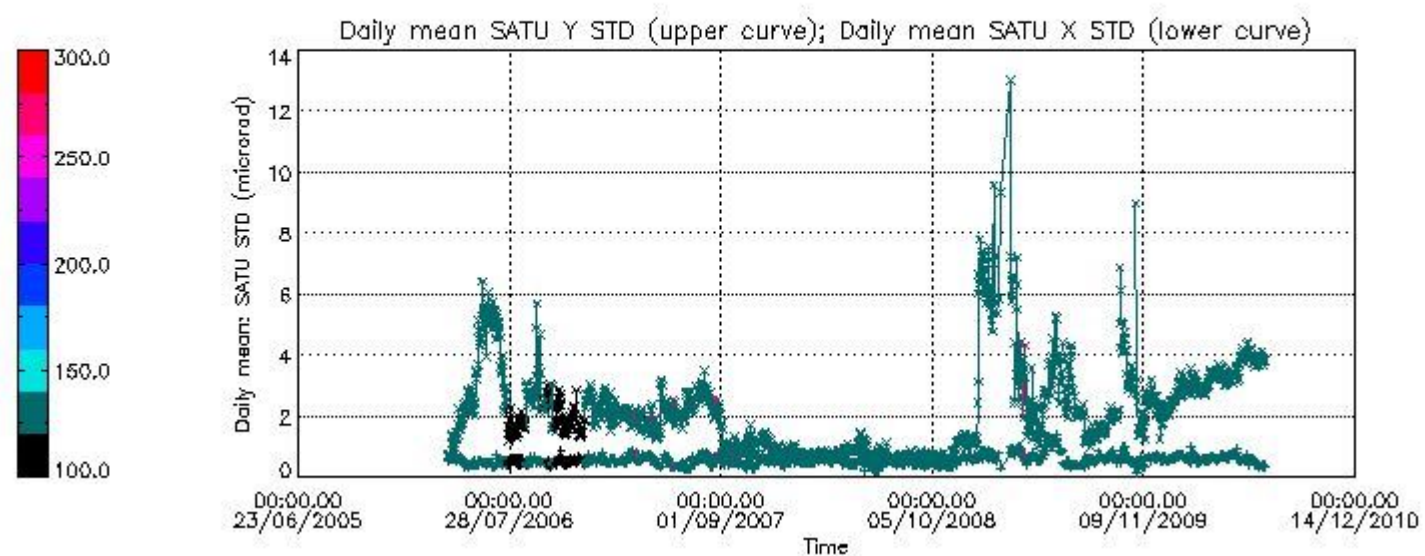
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

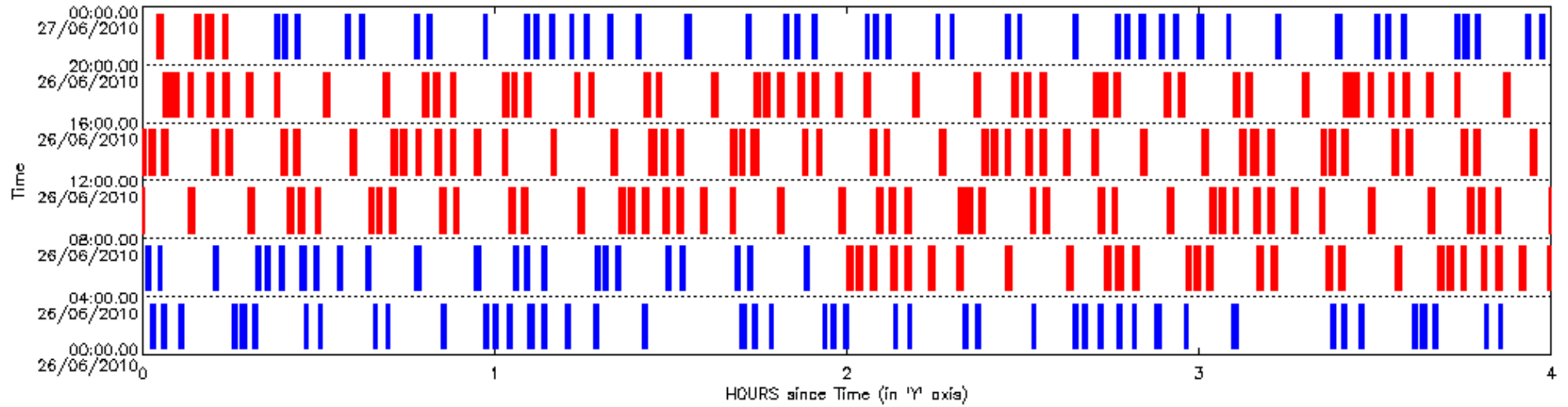
Lower curve: STD of SATU X axis

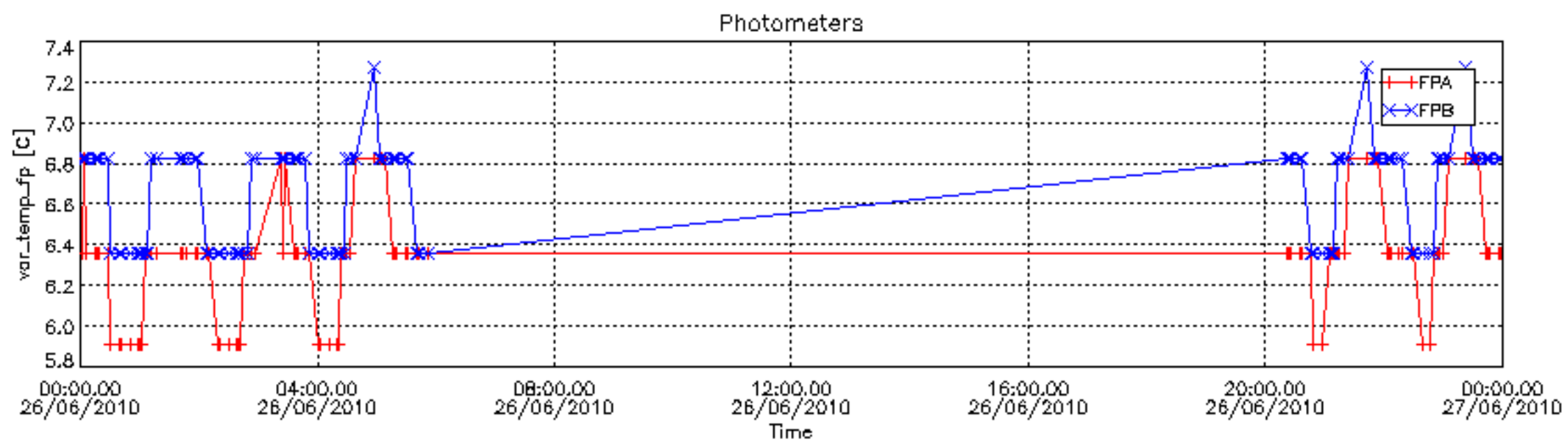
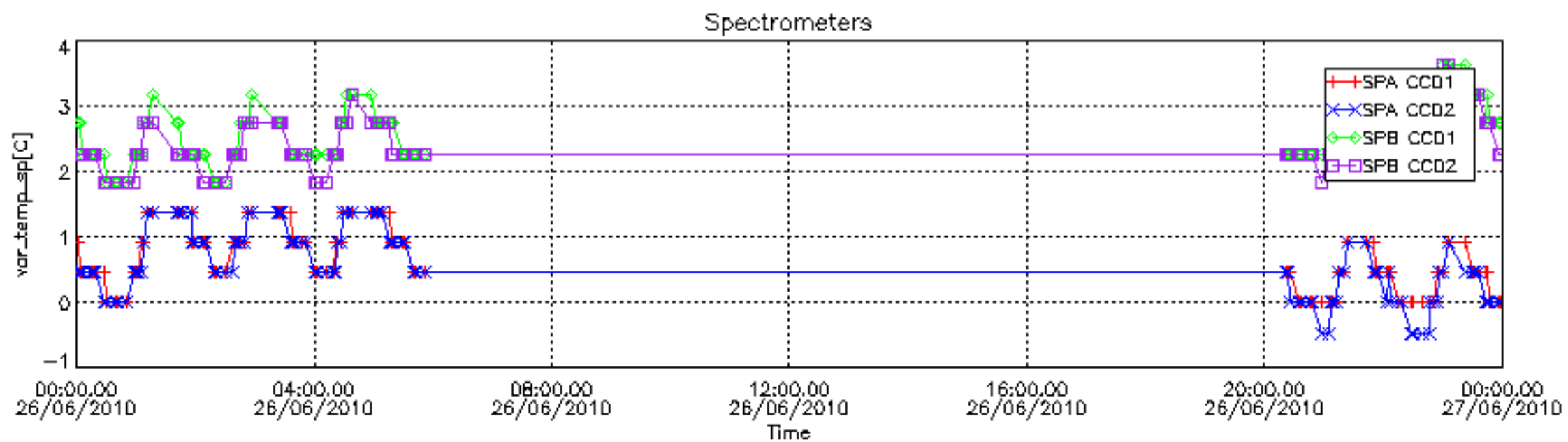


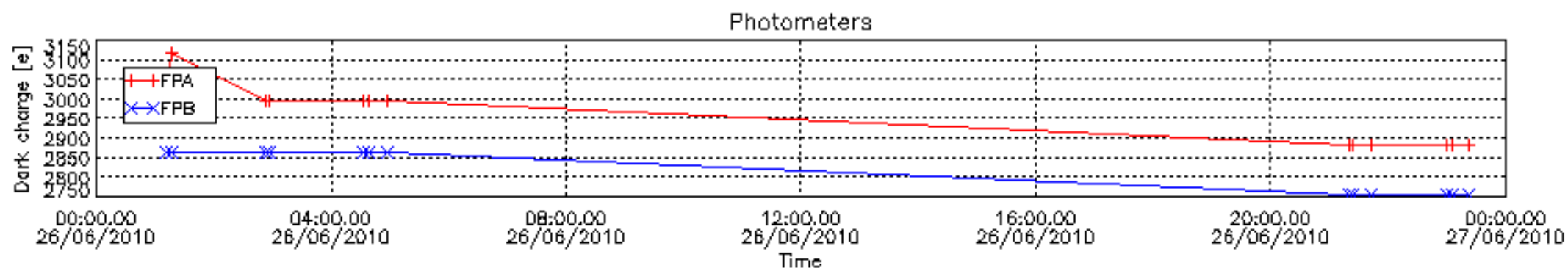
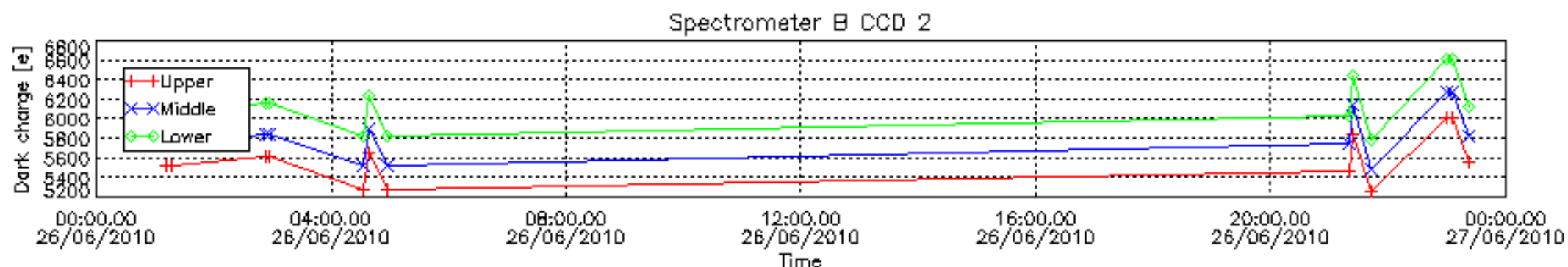
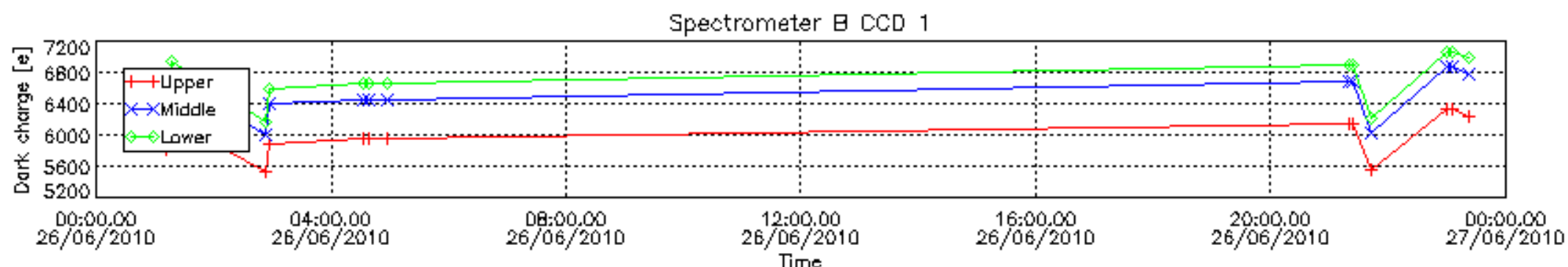
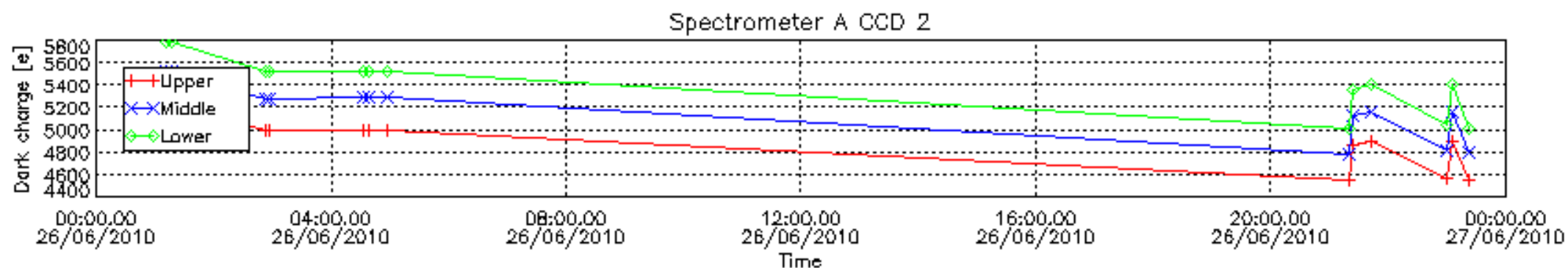
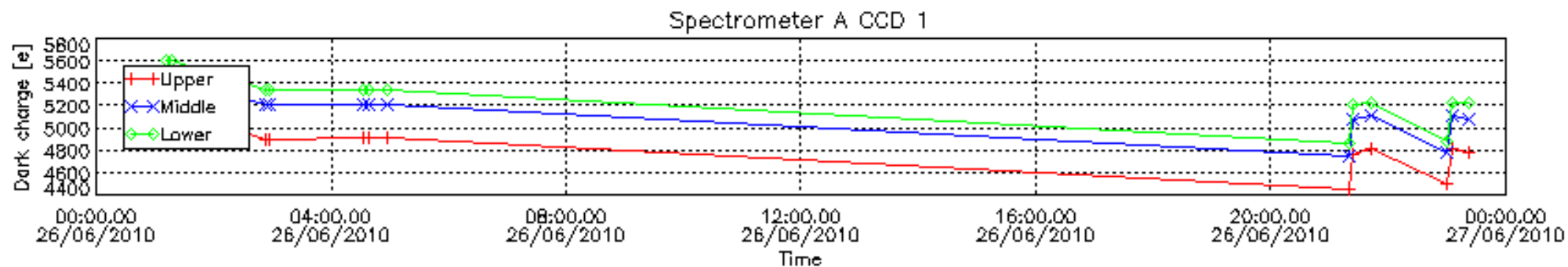
### 8. Auxiliary Data Files used for the production reported in section 2.4

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.

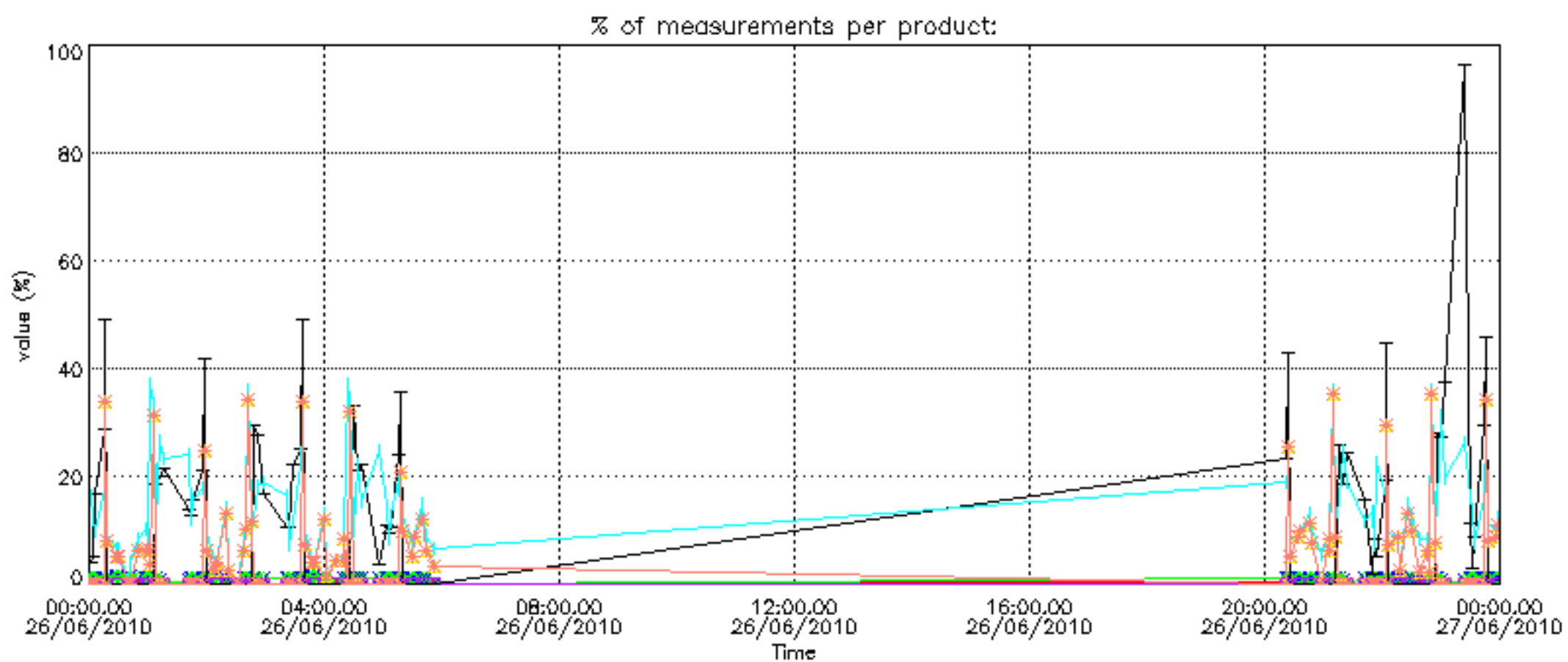
| Type                      | Auxiliary Filename   | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000  | 1                  | 26-JUN-2010 00:01:10    |
| CALIBRATION_DATABASE      | GOM_CAL_AXVIEC20100624_124126_20100622_000000_20500101_000000  | 1                  | 26-JUN-2010 00:01:10    |
| LEVEL-1B_PROC_CONFIG      | GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000  | 1                  | 26-JUN-2010 00:01:10    |
| STAR_CATALOGUE            | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000  | 1                  | 26-JUN-2010 00:01:10    |
| STELLAR_SPECTRA_DATABANK  | GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000  | 1                  | 26-JUN-2010 00:01:10    |
| ECMWF_FILE                | AUX_ECF_AXNECM20100625_054115_20100625_210000_20100626_090000  | 1                  | 26-JUN-2010 00:01:10    |
| ECMWF_FILE                | AUX_ECF_AXNECM20100625_173211_20100626_030000_20100626_150000  | 48                 | 26-JUN-2010 04:19:10    |
| ECMWF_FILE                | AUX_ECF_AXNECM20100626_053215_20100626_150000_20100627_030000  | 67                 | 26-JUN-2010 20:22:25    |
| ECMWF_FILE                | AUX_ECF_AXNECM20100626_055217_20100626_210000_20100627_090000  | 82                 | 26-JUN-2010 21:42:40    |
| OPTIONAL_ECMWF_FILE       | MISSING  | 1                  | 26-JUN-2010 00:01:10    |
| ORBIT_DATA_FILE           | AUX_FPO_AXVPDS20100625_211212_20100624_192407_20100704_205020  | 1                  | 26-JUN-2010 00:01:10    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20100626_011902_000041442090_00360_43500_0628.N1 | 19                 | 26-JUN-2010 01:41:47    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20100626_023325_000057382090_00361_43501_0629.N1 | 30                 | 26-JUN-2010 02:38:34    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20100626_041422_000057382090_00362_43502_0630.N1 | 48                 | 26-JUN-2010 04:19:10    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20100626_201044_000041442090_00372_43512_0631.N1 | 67                 | 26-JUN-2010 20:22:25    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20100626_212507_000057382090_00372_43512_0632.N1 | 82                 | 26-JUN-2010 21:42:40    |
| ORBIT_DATA_FILE           | AUX_FPO_AXVPDS20100626_091216_20100625_185230_20100705_201843  | 101                | 26-JUN-2010 23:23:17    |



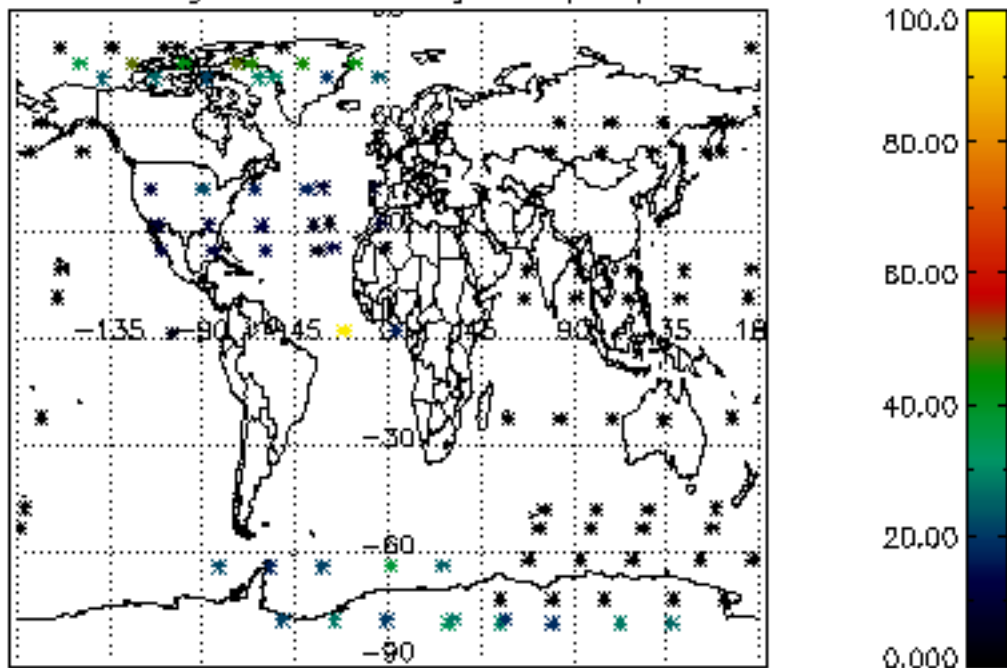




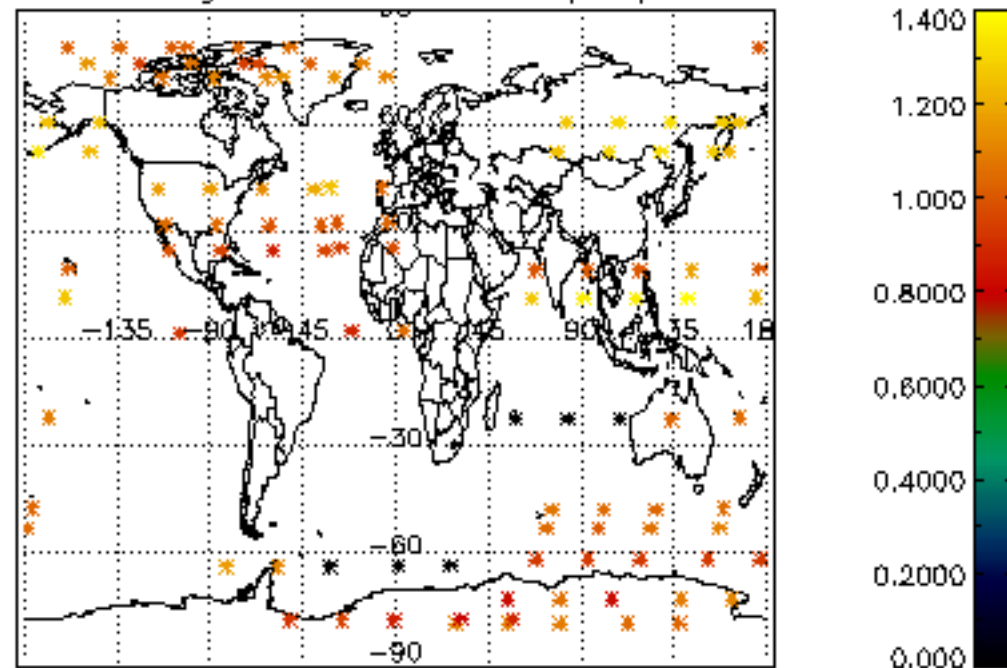




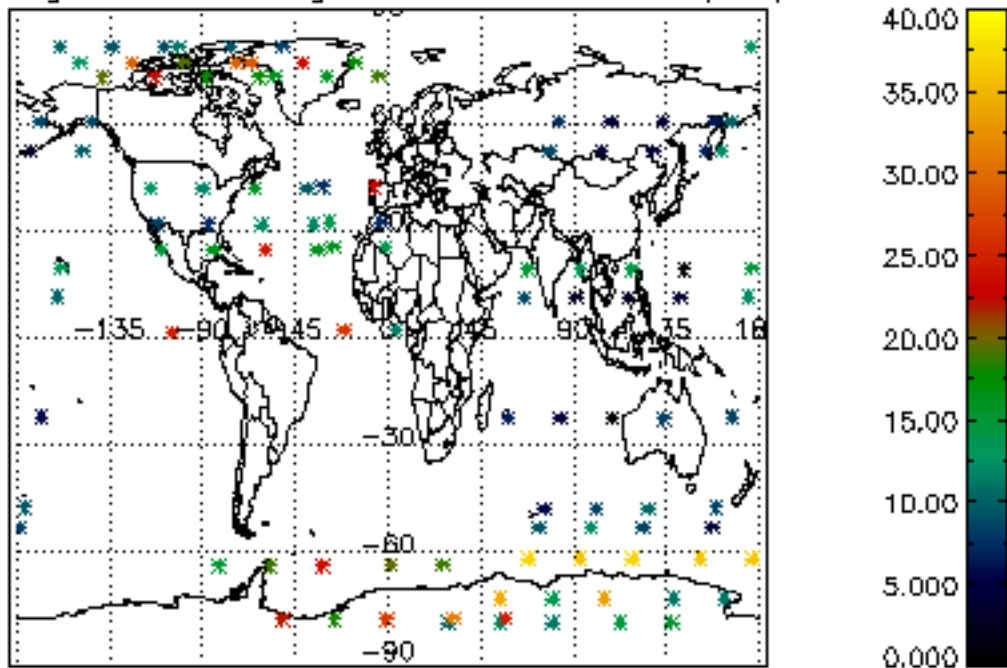
Percentage of cosmic ray hits per profile



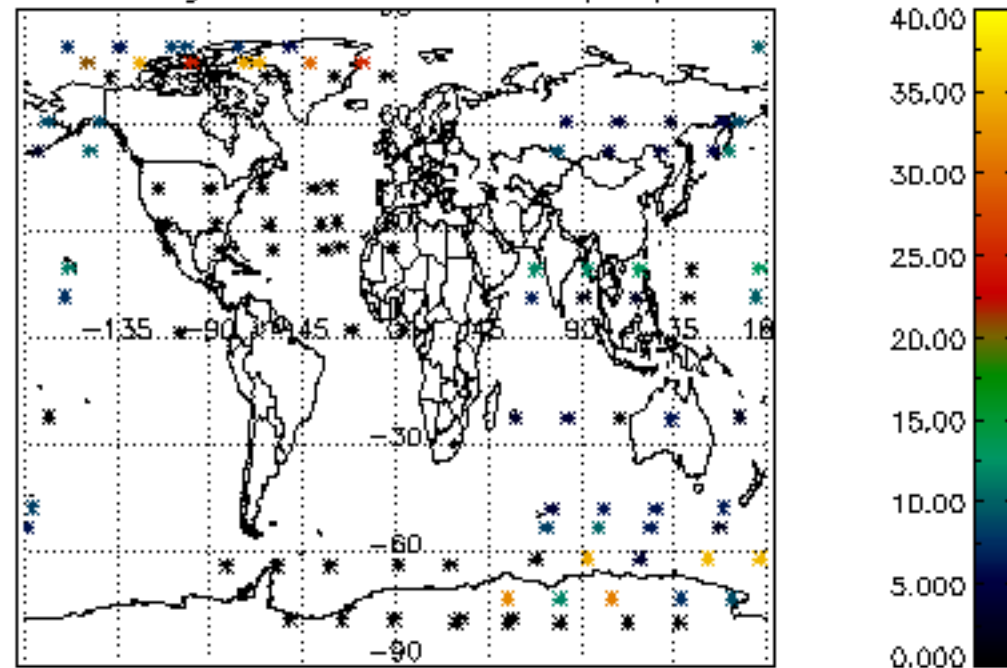
Percentage of datation errors per profile



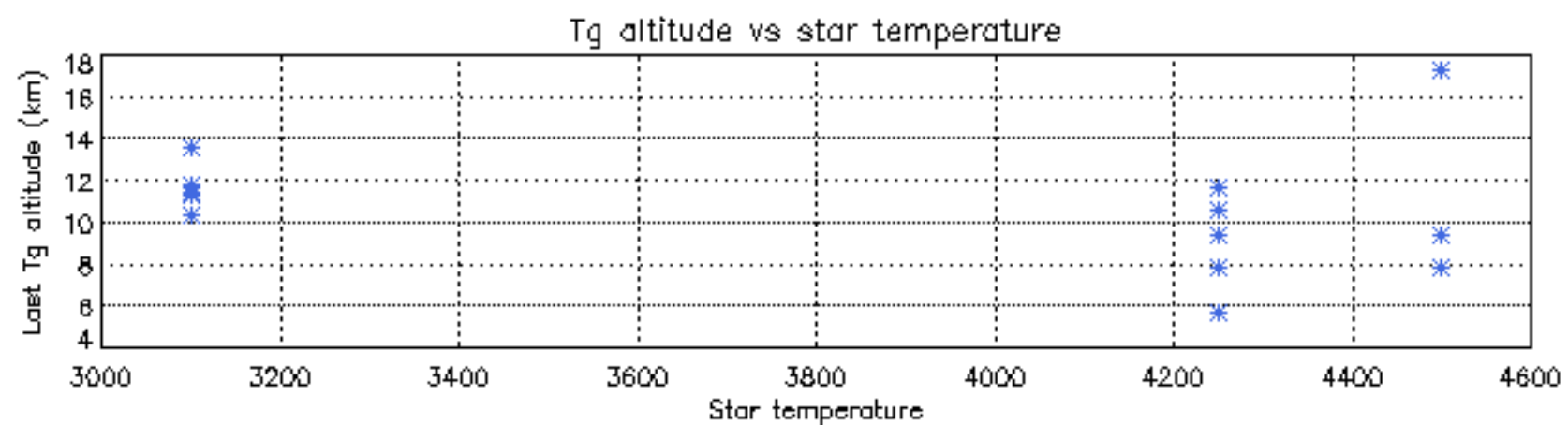
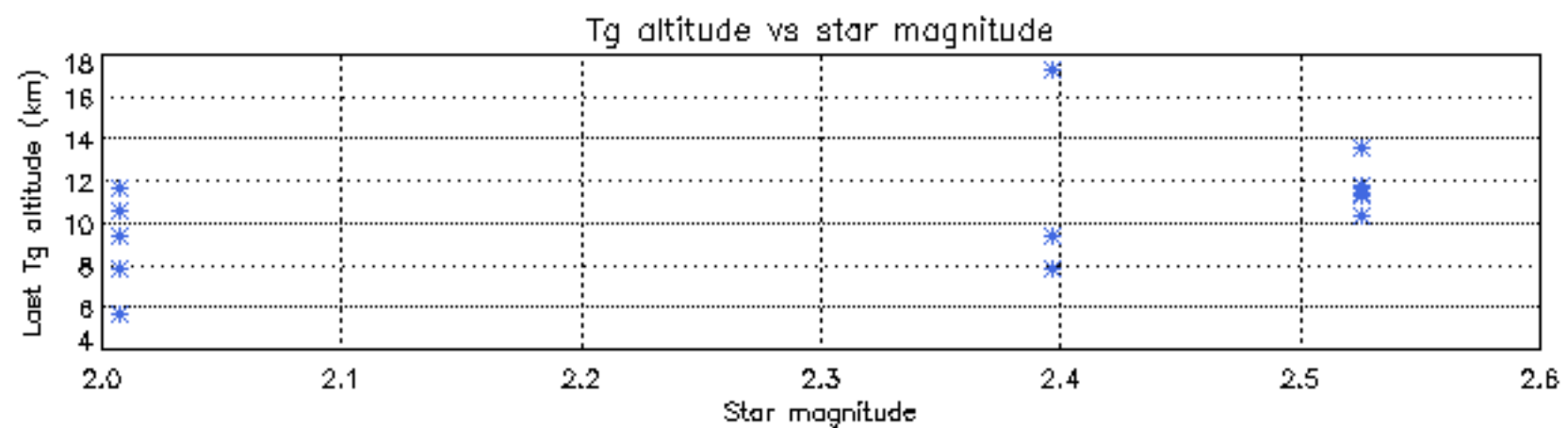
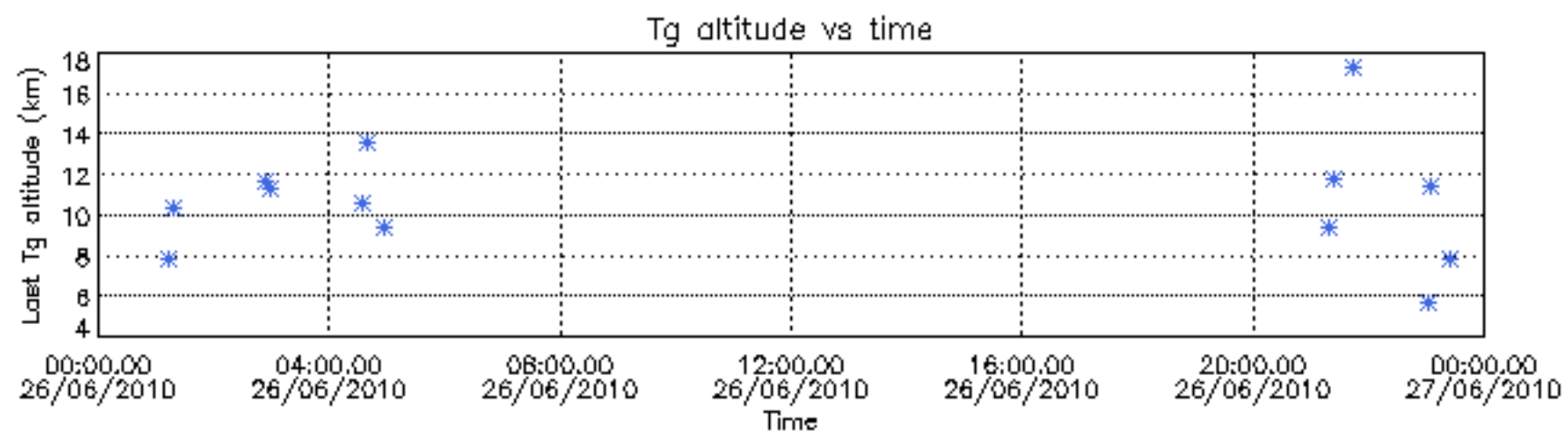
Percentage of star falling outside central band per profile



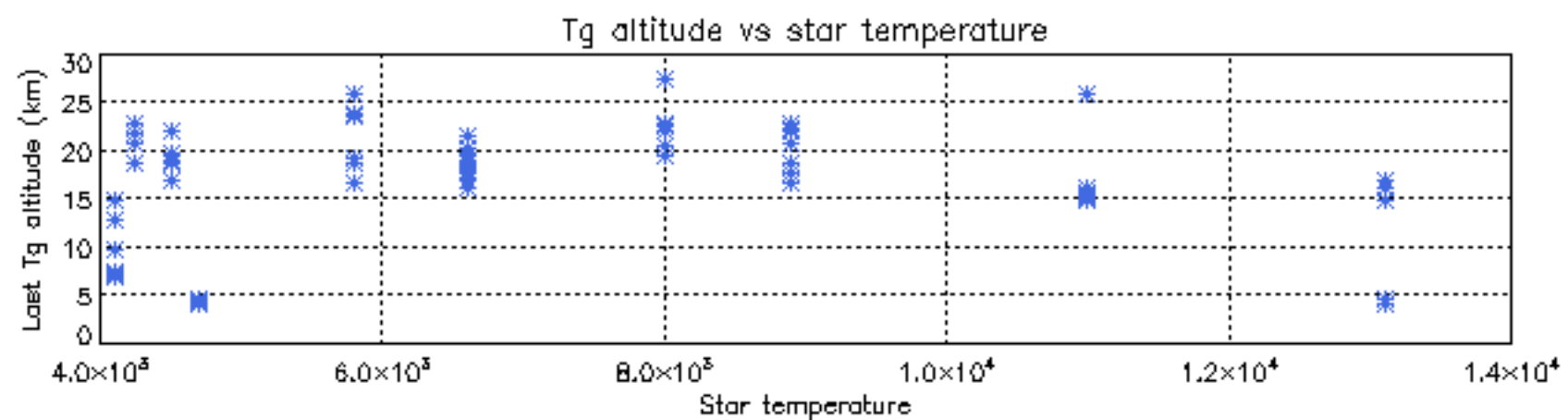
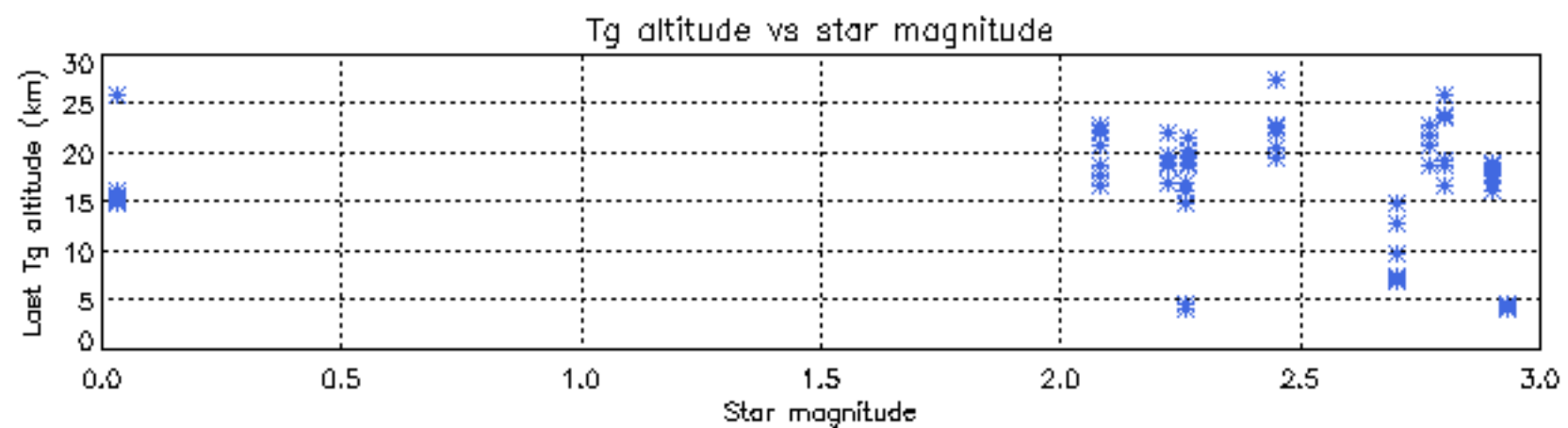
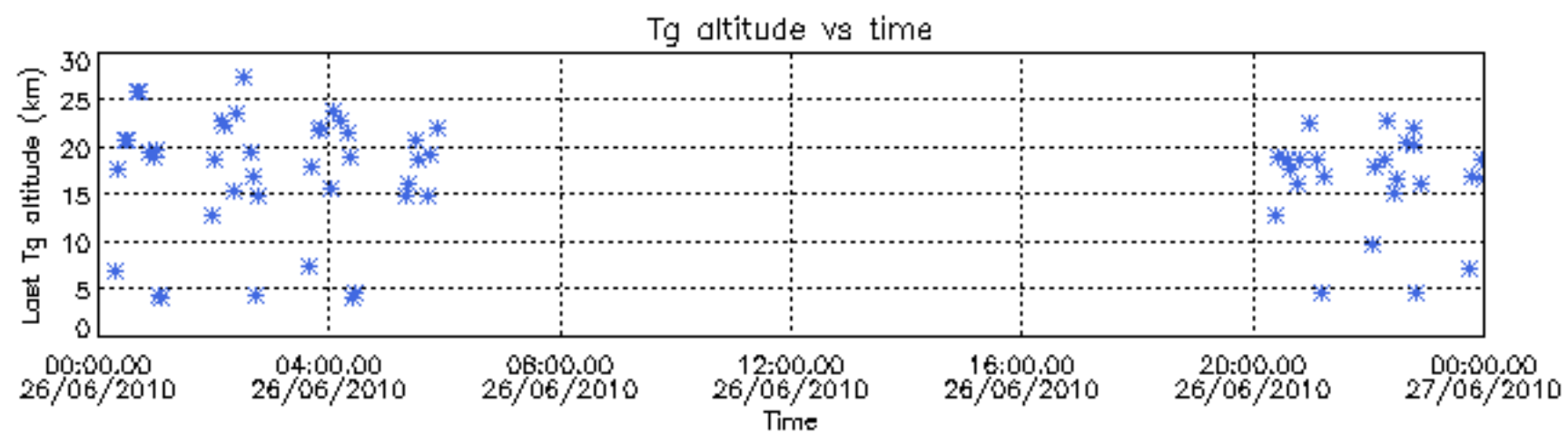
Percentage of saturation errors per profile

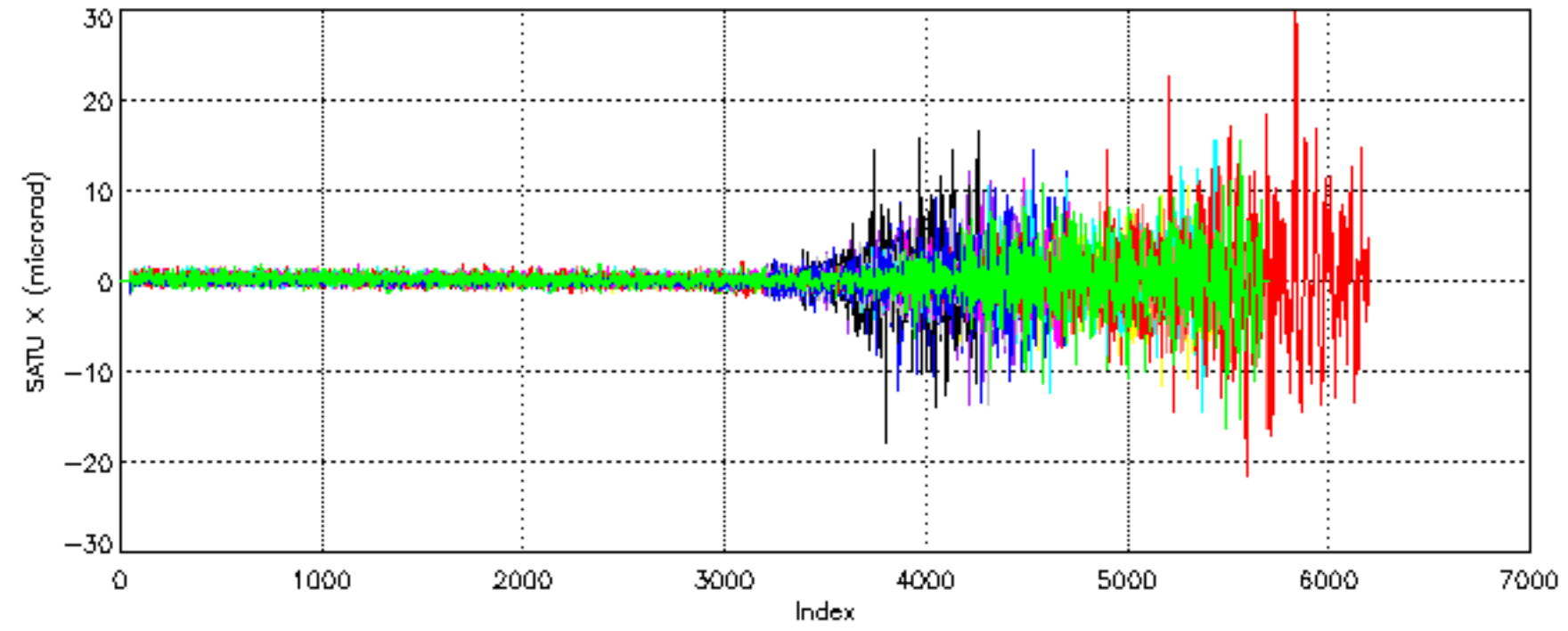


Tangent altitude at which the star is lost

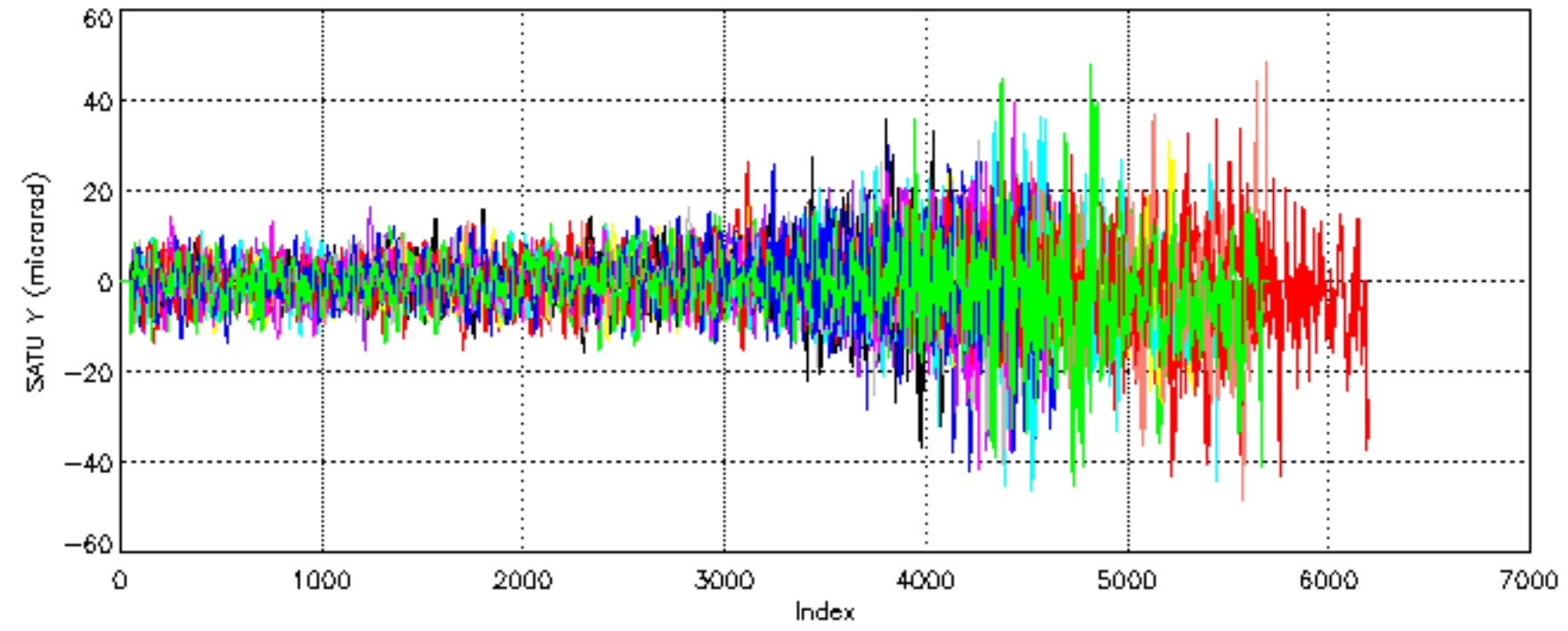


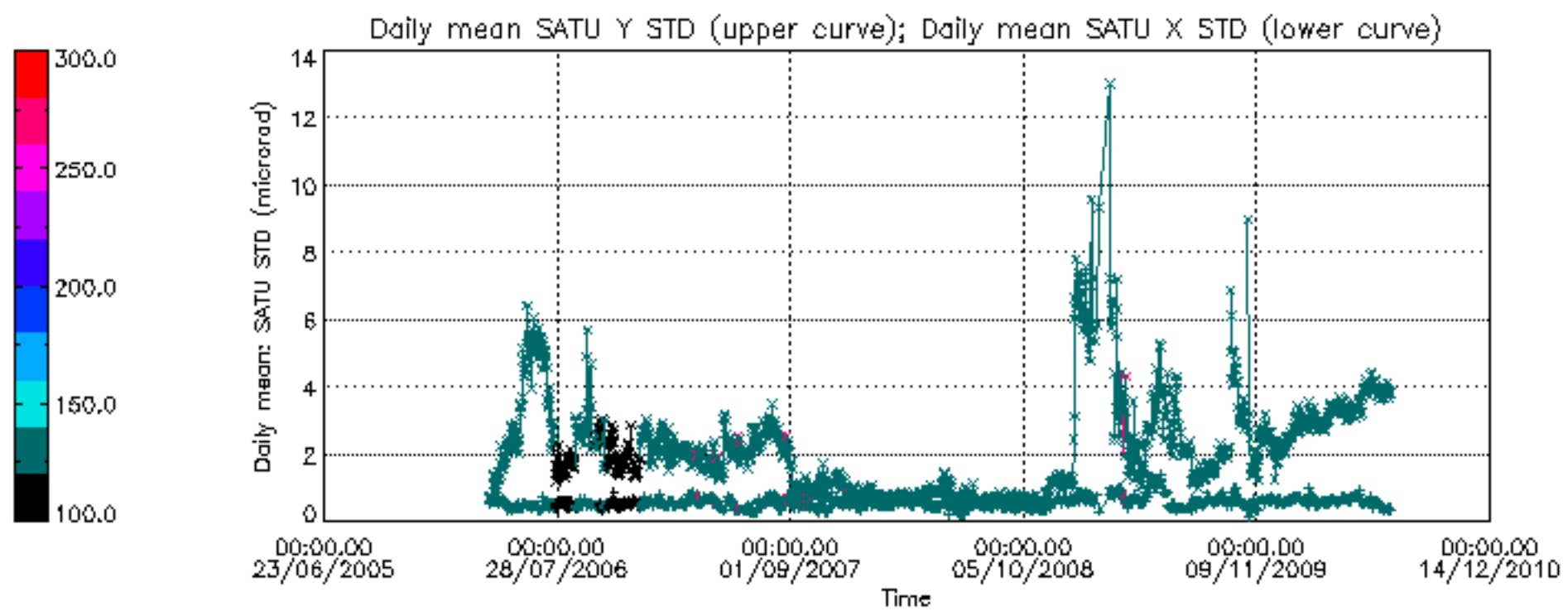
Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20100601\_010946\_000092532090\_00002\_43142\_0163.N1

1; -645.7; 01-JUN-2010 01:09:46; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;43142  
 2; -125.5; 01-JUN-2010 01:18:26; Dark ; 55.0; 18; 24Alp PsA ; 1.17; 9700;occ; 110; 0;43142  
 3; 74.8; 01-JUN-2010 01:21:46; Dark ; 56.5; 63; Bet Gru ; 2.15; 2800;occ; 113; 0;43143  
 4; 187.0; 01-JUN-2010 01:23:38; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;43143  
 5; 486.0; 01-JUN-2010 01:28:37; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;43143  
 6; 933.8; 01-JUN-2010 01:36:05; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;43143  
 7; 1034.9; 01-JUN-2010 01:37:46; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;43143  
 8; 1142.8; 01-JUN-2010 01:39:34; Dark ; 49.5; 25; 35Lam Sco ; 1.62; 28000;occ; 99; 0;43143  
 9; 1249.5; 01-JUN-2010 01:41:21; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;43143  
 10; 1372.0; 01-JUN-2010 01:43:23; Dark ; 43.0; 136; 23Tau Sco ; 2.82; 30000;occ; 86; 0;43143  
 11; 1497.2; 01-JUN-2010 01:45:29; Bright; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;43143  
 12; 1590.7; 01-JUN-2010 01:47:02; Bright; 46.5; 86; 35Eta Oph ; 2.43; 10200;occ; 93; 0;43143  
 13; 1702.4; 01-JUN-2010 01:48:54; Bright; 42.5; 98; 13Zet Oph ; 2.57; 30000;occ; 85; 0;43143  
 14; 1833.7; 01-JUN-2010 01:51:05; Bright; 40.5; 120; 1Del Oph ; 2.73; 3200;occ; 81; 0;43143  
 15; 2014.5; 01-JUN-2010 01:54:06; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;43143  
 16; 2369.2; 01-JUN-2010 02:00:00; Bright; 38.5; 67; 5Alp CrB ; 2.22; 11000;occ; 77; 0;43143  
 17; 2529.6; 01-JUN-2010 02:02:41; Bright; 43.0; 133; 40Zet Her ; 2.81; 6000;occ; 86; 0;43143  
 18; 3005.3; 01-JUN-2010 02:10:37; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;43143  
 19; 3630.0; 01-JUN-2010 02:21:01; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;43143  
 20; 3928.9; 01-JUN-2010 02:26:00; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;43143  
 21; 4393.4; 01-JUN-2010 02:33:45; Bright; 48.0; 53; 43Bet And ; 2.05; 3300;occ; 96; 0;43143  
 22; 4555.3; 01-JUN-2010 02:36:27; Dark ; 53.0; 58; 21Alp And ; 2.07; 11000;occ; 106; 0;43143  
 23; 4851.4; 01-JUN-2010 02:41:23; Dark ; 51.5; 140; 88Gam Peg ; 2.83; 26000;occ; 103; 0;43143  
 24; 5279.6; 01-JUN-2010 02:48:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43143  
 25; 5390.8; 01-JUN-2010 02:50:22; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;43143  
 26; 5911.5; 01-JUN-2010 02:59:03; Dark ; 58.0; 18; 24Alp PsA ; 1.17; 9700;occ; 116; 0;43143  
 27; 6111.3; 01-JUN-2010 03:02:23; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;43144  
 28; 6224.1; 01-JUN-2010 03:04:15; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;43144  
 29; 6522.8; 01-JUN-2010 03:09:14; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;43144  
 30; 6970.3; 01-JUN-2010 03:16:42; Dark ; 42.0; 147; Alp Ara ; 2.88; 26000;occ; 84; 0;43144  
 31; 7071.4; 01-JUN-2010 03:18:23; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;43144  
 32; 7179.2; 01-JUN-2010 03:20:10; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;43144  
 33; 7285.7; 01-JUN-2010 03:21:57; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;43144  
 34; 7408.5; 01-JUN-2010 03:24:00; Dark ; 44.5; 136; 23Tau Sco ; 2.82; 30000;occ; 89; 0;43144  
 35; 7533.5; 01-JUN-2010 03:26:05; Bright; 38.5; 80; 7Del Sco ; 2.32; 30000;occ; 77; 0;43144  
 36; 7626.6; 01-JUN-2010 03:27:38; Bright; 48.0; 86; 35Eta Oph ; 2.43; 10200;occ; 96; 0;43144  
 37; 7738.4; 01-JUN-2010 03:29:30; Bright; 42.5; 98; 13Zet Oph ; 2.57; 30000;occ; 85; 0;43144  
 38; 7869.5; 01-JUN-2010 03:31:41; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;43144  
 39; 8050.5; 01-JUN-2010 03:34:42; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;43144  
 40; 8405.0; 01-JUN-2010 03:40:36; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;43144  
 41; 8565.0; 01-JUN-2010 03:43:16; Bright; 43.0; 133; 40Zet Her ; 2.81; 6000;occ; 86; 0;43144

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20100601\_035112\_000067052090\_00004\_43144\_0164.N1

1; 3005.0; 01-JUN-2010 03:51:12; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;43144  
 2; 3629.4; 01-JUN-2010 04:01:37; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;43144  
 3; 3929.2; 01-JUN-2010 04:06:36; Bright; 55.0; 76; 27Gam Cas ; 2.30; 30000;occ; 110; 0;43144  
 4; 4393.7; 01-JUN-2010 04:14:21; Bright; 46.5; 53; 43Bet And ; 2.05; 3300;occ; 93; 0;43144  
 5; 4555.3; 01-JUN-2010 04:17:02; Dark ; 52.5; 58; 21Alp And ; 2.07; 11000;occ; 105; 0;43144  
 6; 4852.0; 01-JUN-2010 04:21:59; Dark ; 50.5; 140; 88Gam Peg ; 2.83; 26000;occ; 101; 0;43144  
 7; 5280.6; 01-JUN-2010 04:29:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43144  
 8; 5391.5; 01-JUN-2010 04:30:59; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;43144  
 9; 5913.1; 01-JUN-2010 04:39:40; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;43144  
 10; 6112.7; 01-JUN-2010 04:43:00; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;43145  
 11; 6224.6; 01-JUN-2010 04:44:52; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;43145  
 12; 6523.6; 01-JUN-2010 04:49:51; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;43145  
 13; 6970.6; 01-JUN-2010 04:57:18; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;43145  
 14; 7072.2; 01-JUN-2010 04:58:59; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;43145  
 15; 7180.0; 01-JUN-2010 05:00:47; Dark ; 49.0; 25; 35Lam Sco ; 1.62; 28000;occ; 98; 0;43145  
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4; -1465.0; 06-JUN-2010 06:41:01; Dark ; 29.0; 58; 21Alp And ; 2.07; 11000;occ; 58; 0;43217  
5; -1389.2; 06-JUN-2010 06:42:17; Dark ; 43.0; 105; 6Bet Ari ; 2.64; 8900;occ; 86; 0;43217  
6; -1143.2; 06-JUN-2010 06:46:23; Dark ; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;43217  
7; -684.9; 06-JUN-2010 06:54:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43217  
8; -595.8; 06-JUN-2010 06:55:30; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;43217  
9; -199.5; 06-JUN-2010 07:02:07; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;43217  
10; -26.0; 06-JUN-2010 07:05:00; Dark ; 72.5; 18; 24Alp PsA ; 1.17; 9700;occ; 145; 0;43217  
11; 140.6; 06-JUN-2010 07:07:47; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;43218  
12; 258.4; 06-JUN-2010 07:09:45; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;43218  
13; 537.0; 06-JUN-2010 07:14:23; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43218  
14; 1066.6; 06-JUN-2010 07:23:13; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;43218  
15; 1172.7; 06-JUN-2010 07:24:59; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;43218  
16; 1271.1; 06-JUN-2010 07:26:37; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;43218  
17; 1389.5; 06-JUN-2010 07:28:36; Dark ; 43.5; 136; 23Tau Sco ; 2.82; 30000;occ; 87; 0;43218  
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19; 1706.0; 06-JUN-2010 07:33:52; Bright; 3.5; 98; 13Zet Oph ; 2.57; 30000;occ; 7; 0;43218

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3; 2300.1; 06-JUN-2010 07:43:46; Bright; 42.0; 127; 27Bet Her ; 2.78; 4700;occ; 84; 0;43218  
4; 2496.8; 06-JUN-2010 07:47:03; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;43218  
5; 2933.4; 06-JUN-2010 07:54:20; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;43218  
6; 3584.4; 06-JUN-2010 08:05:11; Bright; 48.0; 89; 5Alp Cep ; 2.45; 8000;occ; 96; 0;43218  
7; 3920.7; 06-JUN-2010 08:10:47; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;43218  
8; 4262.0; 06-JUN-2010 08:16:28; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;43218  
9; 4400.7; 06-JUN-2010 08:18:47; Dark ; 46.5; 53; 43Bet And ; 2.05; 3300;occ; 93; 0;43218  
10; 4647.2; 06-JUN-2010 08:22:53; Dark ; 43.0; 105; 6Bet Ari ; 2.64; 8900;occ; 86; 0;43218  
11; 4893.6; 06-JUN-2010 08:27:00; Dark ; 26.0; 140; 88Gam Peg ; 2.83; 26000;occ; 52; 0;43218  
12; 5352.1; 06-JUN-2010 08:34:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43218  
13; 5440.6; 06-JUN-2010 08:36:07; Dark ; 52.5; 52; 16Bet Cet ; 2.04; 4500;occ; 105; 0;43218  
14; 5836.5; 06-JUN-2010 08:42:43; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;43218  
15; 6011.6; 06-JUN-2010 08:45:38; Dark ; 66.0; 18; 24Alp PsA ; 1.17; 9700;occ; 132; 0;43218  
16; 6177.8; 06-JUN-2010 08:48:24; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;43219  
17; 6295.7; 06-JUN-2010 08:50:22; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;43219  
18; 6573.9; 06-JUN-2010 08:55:00; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;43219  
19; 7102.9; 06-JUN-2010 09:03:49; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;43219  
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21; 7307.2; 06-JUN-2010 09:07:13; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;43219  
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23; 7633.9; 06-JUN-2010 09:12:40; Bright; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;43219  
24; 7741.9; 06-JUN-2010 09:14:28; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;43219

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 2; 2299.7; 06-JUN-2010 09:24:22; Bright; 39.5; 127; 27Bet Her ; 2.78; 4700;occ; 79; 0;43219  
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 9; 4647.2; 06-JUN-2010 10:03:29; Dark ; 42.5; 105; 6Bet Ari ; 2.64; 8900;occ; 85; 0;43219  
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 11; 5353.1; 06-JUN-2010 10:15:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43219  
 12; 5441.4; 06-JUN-2010 10:16:44; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;43219  
 13; 5837.6; 06-JUN-2010 10:23:20; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;43219  
 14; 6012.8; 06-JUN-2010 10:26:15; Dark ; 57.0; 18; 24Alp PsA ; 1.17; 9700;occ; 114; 0;43219  
 15; 6178.8; 06-JUN-2010 10:29:01; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;43220  
 16; 6296.7; 06-JUN-2010 10:30:59; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;43220  
 17; 6574.2; 06-JUN-2010 10:35:36; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;43220  
 18; 7103.3; 06-JUN-2010 10:44:25; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;43220  
 19; 7209.3; 06-JUN-2010 10:46:11; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;43220  
 20; 7307.7; 06-JUN-2010 10:47:50; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;43220  
 21; 7425.7; 06-JUN-2010 10:49:48; Dark ; 45.5; 136; 23Tau Sco ; 2.82; 30000;occ; 91; 0;43220  
 22; 7633.9; 06-JUN-2010 10:53:16; Bright; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;43220  
 23; 7742.1; 06-JUN-2010 10:55:04; Bright; 3.5; 98; 13Zet Oph ; 2.57; 30000;occ; 7; 0;43220

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 3; 2299.3; 06-JUN-2010 11:04:57; Bright; 42.0; 127; 27Bet Her ; 2.78; 4700;occ; 84; 0;43220  
 4; 2495.9; 06-JUN-2010 11:08:14; Bright; 41.0; 133; 40Zet Her ; 2.81; 6000;occ; 82; 0;43220  
 5; 2932.1; 06-JUN-2010 11:15:30; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;43220  
 6; 3582.9; 06-JUN-2010 11:26:21; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;43220  
 7; 3920.1; 06-JUN-2010 11:31:58; Bright; 57.0; 76; 27Gam Cas ; 2.30; 30000;occ; 114; 0;43220  
 8; 4262.1; 06-JUN-2010 11:37:40; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;43220  
 9; 4400.4; 06-JUN-2010 11:39:58; Dark ; 59.0; 53; 43Bet And ; 2.05; 3300;occ; 118; 0;43220  
 10; 4647.6; 06-JUN-2010 11:44:06; Dark ; 42.5; 105; 6Bet Ari ; 2.64; 8900;occ; 85; 0;43220  
 11; 5354.2; 06-JUN-2010 11:55:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43220  
 12; 5442.3; 06-JUN-2010 11:57:20; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;43220  
 13; 5838.1; 06-JUN-2010 12:03:56; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;43220  
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 16; 6297.2; 06-JUN-2010 12:11:35; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;43221  
 17; 6574.8; 06-JUN-2010 12:16:13; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;43221  
 18; 7103.5; 06-JUN-2010 12:25:01; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;43221  
 19; 7209.8; 06-JUN-2010 12:26:48; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;43221  
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 21; 7634.2; 06-JUN-2010 12:33:52; Bright; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;43221

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 4; 2299.2; 06-JUN-2010 12:45:33; Bright; 40.5; 127; 27Bet Her ; 2.78; 4700;occ; 81; 0;43221  
 5; 2495.9; 06-JUN-2010 12:48:50; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;43221  
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 7; 3582.3; 06-JUN-2010 13:06:56; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;43221  
 8; 3920.4; 06-JUN-2010 13:12:34; Bright; 57.0; 76; 27Gam Cas ; 2.30; 30000;occ; 114; 0;43221  
 9; 4262.4; 06-JUN-2010 13:18:16; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;43221  
 10; 4400.7; 06-JUN-2010 13:20:35; Dark ; 59.0; 53; 43Bet And ; 2.05; 3300;occ; 118; 0;43221  
 11; 4647.8; 06-JUN-2010 13:24:42; Dark ; 43.5; 105; 6Bet Ari ; 2.64; 8900;occ; 87; 0;43221  
 12; 5355.2; 06-JUN-2010 13:36:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43221  
 13; 5443.0; 06-JUN-2010 13:37:57; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;43221  
 14; 5838.8; 06-JUN-2010 13:44:33; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;43221  
 15; 6015.8; 06-JUN-2010 13:47:30; Dark ; 57.5; 18; 24Alp PsA ; 1.17; 9700;occ; 115; 0;43221  
 16; 6180.3; 06-JUN-2010 13:50:14; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;43222  
 17; 6298.0; 06-JUN-2010 13:52:12; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;43222  
 18; 6575.9; 06-JUN-2010 13:56:50; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;43222  
 19; 7103.7; 06-JUN-2010 14:05:38; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;43222  
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 21; 7308.2; 06-JUN-2010 14:09:02; Dark ; 45.0; 75; 26Eps Sco ; 2.29; 4250;occ; 90; 0;43222  
 22; 7426.2; 06-JUN-2010 14:11:00; Dark ; 43.0; 136; 23Tau Sco ; 2.82; 30000;occ; 86; 0;43222



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 6; 2931.1; 06-JUN-2010 14:36:41; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;43222  
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 8; 3920.2; 06-JUN-2010 14:53:10; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;43222  
 9; 4262.4; 06-JUN-2010 14:58:52; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;43222  
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 11; 4648.3; 06-JUN-2010 15:05:18; Dark ; 43.5; 105; 6Bet Ari ; 2.64; 8900;occ; 87; 0;43222  
 12; 5356.4; 06-JUN-2010 15:17:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43222  
 13; 5443.9; 06-JUN-2010 15:18:34; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;43222  
 14; 5839.4; 06-JUN-2010 15:25:09; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;43222  
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 16; 6181.1; 06-JUN-2010 15:30:51; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;43223  
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 4; 1834.9; 06-JUN-2010 15:59:01; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;43223  
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 9; 3920.0; 06-JUN-2010 16:33:46; Bright; 49.0; 76; 27Gam Cas ; 2.30; 30000;occ; 98; 0;43223  
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 12; 4648.4; 06-JUN-2010 16:45:54; Dark ; 43.0; 105; 6Bet Ari ; 2.64; 8900;occ; 86; 0;43223  
 13; 5357.5; 06-JUN-2010 16:57:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43223  
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 16; 6018.6; 06-JUN-2010 17:08:44; Dark ; 56.5; 18; 24Alp PsA ; 1.17; 9700;occ; 113; 0;43223  
 17; 6182.4; 06-JUN-2010 17:11:28; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;43224  
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 19; 6577.1; 06-JUN-2010 17:18:03; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43224  
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 16; 6398.3; 22-JUN-2010 10:29:48; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;43449  
 17; 6520.9; 22-JUN-2010 10:31:50; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;43449  
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 21; 7490.0; 22-JUN-2010 10:47:59; Bright; 52.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 104; 0;43449  
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13; 5407.5; 22-JUN-2010 11:53:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43449
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17; 6522.0; 22-JUN-2010 12:12:27; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;43450
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19; 7273.4; 22-JUN-2010 12:24:59; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;43450
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21; 7490.5; 22-JUN-2010 12:28:36; Bright; 51.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 102; 0;43450
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 3; 2135.6; 22-JUN-2010 12:39:57; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;43450
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 6; 2836.4; 22-JUN-2010 12:51:37; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;43450
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19; 6716.1; 22-JUN-2010 13:56:17; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;43451
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11; 3841.0; 22-JUN-2010 21:31:22; Bright; 46.5; 74; 11Bet Cas ; 2.27; 6600;occ; 93; 0;43455
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13; 4064.9; 22-JUN-2010 21:35:06; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43455
14; 4270.1; 22-JUN-2010 21:38:31; Bright; 55.0; 73; 57Gam1And ; 2.26; 13100;occ; 110; 0;43455
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16; 4644.2; 22-JUN-2010 21:44:45; Dark ; 51.0; 50; 13Alp Ari ; 2.01; 4250;occ; 102; 0;43455
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 7; 1325.1; 22-JUN-2010 22:30:02; Dark ; 47.0; 116; 19Del Sgr ; 2.70; 4100;occ; 94; 0;43456
 8; 1455.9; 22-JUN-2010 22:32:13; Bright; 51.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 103; 0;43456
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11; 2134.7; 22-JUN-2010 22:43:31; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;43456
12; 2447.4; 22-JUN-2010 22:48:44; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;43456
13; 2721.7; 22-JUN-2010 22:53:18; Bright; 44.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 88; 0;43456

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 11; 2134.7; 23-JUN-2010 00:24:07; Bright; 41.5; 59; 55Alp Oph ; 2.08; 8900;occ; 83; 0;43457  
 12; 2447.3; 23-JUN-2010 00:29:20; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;43457  
 13; 2720.9; 23-JUN-2010 00:33:53; Bright; 51.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 103; 0;43457  
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 15; 3424.4; 23-JUN-2010 00:45:37; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;43457  
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 17; 3931.7; 23-JUN-2010 00:54:04; Bright; 58.0; 68; 18Alp Cas ; 2.22; 4500;occ; 116; 0;43457  
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 27; 7276.4; 23-JUN-2010 03:30:25; Dark ; 46.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 93; 0;43459  
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 33; 8755.5; 23-JUN-2010 03:55:04; Bright; 49.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 98; 0;43459  
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 6; 1244.6; 24-JUN-2010 02:58:52; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;43473
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 8; 1459.7; 24-JUN-2010 03:02:27; Bright; 51.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 102; 0;43473
 9; 1987.9; 24-JUN-2010 03:11:15; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;43473
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13; 2830.2; 24-JUN-2010 03:25:17; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;43473
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 5;-1619.5; 24-JUN-2010 03:51:44; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43473
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12; 693.1; 24-JUN-2010 04:30:16; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;43474
13; 1245.2; 24-JUN-2010 04:39:28; Dark ; 44.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 88; 0;43474
14; 1330.1; 24-JUN-2010 04:40:53; Dark ; 51.0; 116; 19Del Sgr ; 2.70; 4100;occ; 102; 0;43474
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17; 2131.7; 24-JUN-2010 04:54:15; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;43474
18; 2446.6; 24-JUN-2010 04:59:30; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;43474
19; 2709.6; 24-JUN-2010 05:03:53; Bright; 49.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 98; 0;43474
20; 2829.6; 24-JUN-2010 05:05:53; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;43474
21; 3412.7; 24-JUN-2010 05:15:36; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;43474

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 12; 693.5; 24-JUN-2010 06:10:53; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;43475  
 13; 1245.7; 24-JUN-2010 06:20:05; Dark ; 47.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 94; 0;43475  
 14; 1330.4; 24-JUN-2010 06:21:30; Dark ; 48.0; 116; 19Del Sgr ; 2.70; 4100;occ; 96; 0;43475  
 15; 1460.1; 24-JUN-2010 06:23:39; Bright; 50.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 100; 0;43475  
 16; 1987.9; 24-JUN-2010 06:32:27; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;43475  
 17; 2131.6; 24-JUN-2010 06:34:51; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;43475  
 18; 2446.4; 24-JUN-2010 06:40:06; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;43475  
 19; 2708.7; 24-JUN-2010 06:44:28; Bright; 49.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 99; 0;43475  
 20; 2829.7; 24-JUN-2010 06:46:29; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;43475  
 21; 3411.8; 24-JUN-2010 06:56:11; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;43475

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 4; 1986.8; 24-JUN-2010 19:57:13; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;43483  
 5; 2130.3; 24-JUN-2010 19:59:37; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;43483  
 6; 2703.6; 24-JUN-2010 20:09:10; Bright; 48.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 96; 0;43483  
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 9; 3829.1; 24-JUN-2010 20:27:56; Bright; 67.0; 74; 11Bet Cas ; 2.27; 6600;occ; 134; 0;43483  
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 11; 4065.0; 24-JUN-2010 20:31:52; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43483  
 12; 4270.4; 24-JUN-2010 20:35:17; Bright; 45.0; 73; 57Gam1And ; 2.26; 13100;occ; 90; 0;43483  
 13; 4417.3; 24-JUN-2010 20:37:44; Dark ; 31.0; 53; 43Bet And ; 2.05; 3300;occ; 62; 0;43483  
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 4; 397.1; 24-JUN-2010 21:11:20; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;43484  
 5; 518.5; 24-JUN-2010 21:13:21; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;43484  
 6; 698.4; 24-JUN-2010 21:16:21; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;43484  
 7; 1248.2; 24-JUN-2010 21:25:31; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;43484  
 8; 1332.8; 24-JUN-2010 21:26:55; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;43484  
 9; 1462.1; 24-JUN-2010 21:29:05; Bright; 50.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 100; 0;43484  
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 12; 2702.6; 24-JUN-2010 21:49:45; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;43484  
 13; 2827.1; 24-JUN-2010 21:51:50; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;43484  
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 15; 3828.6; 24-JUN-2010 22:08:31; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;43484  
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 19; 4416.8; 24-JUN-2010 22:18:19; Dark ; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;43484  
 20; 4651.7; 24-JUN-2010 22:22:14; Dark ; 54.5; 50; 13Alp Ari ; 2.01; 4250;occ; 109; 0;43484

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 4; 398.2; 24-JUN-2010 22:51:57; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;43485  
 5; 519.7; 24-JUN-2010 22:53:58; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;43485  
 6; 698.8; 24-JUN-2010 22:56:57; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43485  
 7; 1248.5; 24-JUN-2010 23:06:07; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;43485  
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 9; 1462.1; 24-JUN-2010 23:09:41; Bright; 50.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 100; 0;43485



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13; 2826.9; 24-JUN-2010 23:32:25; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;43485
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19; 4417.2; 24-JUN-2010 23:58:56; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43485
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5; 520.4; 25-JUN-2010 00:34:35; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;43486
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7; 1248.9; 25-JUN-2010 00:46:43; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;43486
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9; 1462.4; 25-JUN-2010 00:50:17; Bright; 50.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 101; 0;43486
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17; 2122.4; 30-JUN-2010 06:46:11; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;43561
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8; 2927.9; 30-JUN-2010 20:24:24; Bright; 31.0; 144; 18Del Cyg ; 2.86; 11000;occ; 62; 0;43569
9; 3347.5; 30-JUN-2010 20:31:24; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;43569
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19; 4266.8; 30-JUN-2010 22:27:19; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;43570
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9; 2121.7; 30-JUN-2010 23:32:10; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;43571
10; 2234.2; 30-JUN-2010 23:34:03; Bright; 50.5; 168; 17Zet Aql ; 2.99; 11000;occ; 101; 0;43571
11; 2653.4; 30-JUN-2010 23:41:02; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;43571
12; 2809.0; 30-JUN-2010 23:43:37; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;43571

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