

# GOMOS Daily Report 12-FEB-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 | 14FEB2010 04:32:42 |
| Data source version       | GOMOS/5.00L04      |
| Start time of products    | 12FEB2010 00:03:06 |
| Stop time of products     | 12FEB2010 23:53:05 |
| Store outputs in DB       | Yes                |
| Nb of level 1b prods      | 55                 |
| Nb of prods with errors   | 1                  |

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

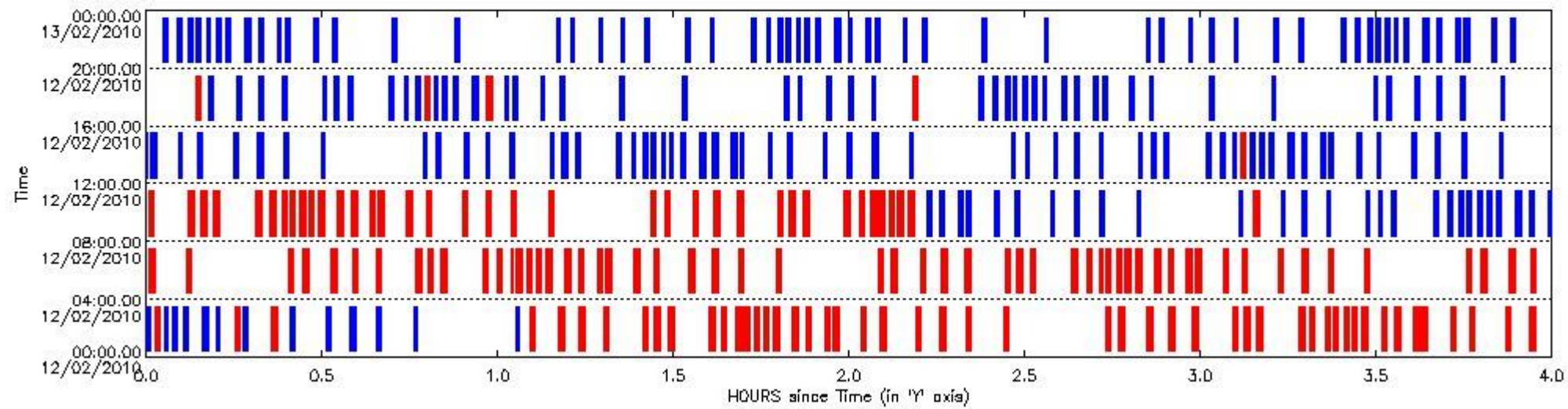
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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 |
|----------------------|-----------|---------|-------|
| 12-FEB-2010 00:01:25 | TheSco    | 40      | 41581 |
| 12-FEB-2010 00:15:09 | Alp1Cru   | 12      | 41582 |
| 12-FEB-2010 00:21:27 | KapVel    | 91      | 41582 |
| 12-FEB-2010 01:05:27 | 7BetUMi   | 60      | 41582 |
| 12-FEB-2010 01:10:18 | 14EtaDra  | 119     | 41582 |
| 12-FEB-2010 01:13:56 | 23BetDra  | 130     | 41582 |
| 12-FEB-2010 01:18:00 | 3AlpLyr   | 5       | 41582 |
| 12-FEB-2010 01:24:50 | 17ZetAql  | 168     | 41582 |
| 12-FEB-2010 01:26:49 | 55AlpOph  | 59      | 41582 |
| 12-FEB-2010 01:29:03 | 60BetOph  | 126     | 41582 |
| 12-FEB-2010 01:36:09 | 35EtaOph  | 86      | 41582 |
| 12-FEB-2010 01:38:05 | 10Gam2Sgr | 167     | 41582 |
| 12-FEB-2010 01:40:41 | 35LamSco  | 25      | 41582 |
| 12-FEB-2010 01:42:01 | TheSco    | 40      | 41582 |
| 12-FEB-2010 01:43:49 | AlpAra    | 147     | 41582 |

|                      |           |     |       |
|----------------------|-----------|-----|-------|
| 12-FEB-2010 01:45:18 | BetAra    | 141 | 41582 |
| 12-FEB-2010 01:46:58 | GamLup    | 131 | 41583 |
| 12-FEB-2010 01:50:15 | DSA1027   | 0   | 41583 |
| 12-FEB-2010 01:52:35 | BetCen    | 10  | 41583 |
| 12-FEB-2010 01:55:46 | Alp1Cru   | 12  | 41583 |
| 12-FEB-2010 01:57:11 | GamCen    | 64  | 41583 |
| 12-FEB-2010 02:02:03 | KapVel    | 91  | 41583 |
| 12-FEB-2010 02:05:22 | LamVel    | 65  | 41583 |
| 12-FEB-2010 02:11:28 | 15RhoPup  | 132 | 41583 |
| 12-FEB-2010 02:15:31 | 30AlpHya  | 48  | 41583 |
| 12-FEB-2010 02:19:57 | 10AlpCMi  | 8   | 41583 |
| 12-FEB-2010 02:26:18 | 78BetGem  | 17  | 41583 |
| 12-FEB-2010 02:43:42 | 1AlpUMi   | 49  | 41583 |
| 12-FEB-2010 02:46:03 | 7BetUMi   | 60  | 41583 |
| 12-FEB-2010 02:50:54 | 14EtaDra  | 119 | 41583 |
| 12-FEB-2010 02:54:32 | 23BetDra  | 130 | 41583 |
| 12-FEB-2010 02:58:36 | 3AlpLyr   | 5   | 41583 |
| 12-FEB-2010 03:05:26 | 17ZetAql  | 168 | 41583 |
| 12-FEB-2010 03:07:25 | 55AlpOph  | 59  | 41583 |
| 12-FEB-2010 03:09:39 | 60BetOph  | 126 | 41583 |
| 12-FEB-2010 03:16:45 | 35EtaOph  | 86  | 41583 |
| 12-FEB-2010 03:18:41 | 10Gam2Sgr | 167 | 41583 |
| 12-FEB-2010 03:21:18 | 35LamSco  | 25  | 41583 |
| 12-FEB-2010 03:22:38 | TheSco    | 40  | 41583 |
| 12-FEB-2010 03:24:25 | AlpAra    | 147 | 41583 |
| 12-FEB-2010 03:25:54 | BetAra    | 141 | 41583 |
| 12-FEB-2010 03:27:35 | GamLup    | 131 | 41584 |
| 12-FEB-2010 03:30:52 | DSA1027   | 0   | 41584 |
| 12-FEB-2010 03:33:12 | BetCen    | 10  | 41584 |
| 12-FEB-2010 03:36:22 | Alp1Cru   | 12  | 41584 |
| 12-FEB-2010 03:37:47 | GamCen    | 64  | 41584 |
| 12-FEB-2010 03:42:39 | KapVel    | 91  | 41584 |
| 12-FEB-2010 03:45:58 | LamVel    | 65  | 41584 |
| 12-FEB-2010 03:52:04 | 15RhoPup  | 132 | 41584 |
| 12-FEB-2010 03:56:07 | 30AlpHya  | 48  | 41584 |
| 12-FEB-2010 04:00:33 | 10AlpCMi  | 8   | 41584 |
| 12-FEB-2010 04:06:54 | 78BetGem  | 17  | 41584 |
| 12-FEB-2010 04:24:18 | 1AlpUMi   | 49  | 41584 |
| 12-FEB-2010 04:26:39 | 7BetUMi   | 60  | 41584 |
| 12-FEB-2010 04:31:30 | 14EtaDra  | 119 | 41584 |
| 12-FEB-2010 04:35:07 | 23BetDra  | 130 | 41584 |
| 12-FEB-2010 04:39:12 | 3AlpLyr   | 5   | 41584 |
| 12-FEB-2010 04:46:02 | 17ZetAql  | 168 | 41584 |
| 12-FEB-2010 04:48:01 | 55AlpOph  | 59  | 41584 |
| 12-FEB-2010 04:50:15 | 60BetOph  | 126 | 41584 |
| 12-FEB-2010 04:57:22 | 35EtaOph  | 86  | 41584 |
| 12-FEB-2010 04:59:55 | 20EpsSgr  | 38  | 41584 |
| 12-FEB-2010 05:02:15 | 21AlpSco  | 16  | 41584 |
| 12-FEB-2010 05:03:14 | TheSco    | 40  | 41584 |
| 12-FEB-2010 05:05:02 | AlpAra    | 147 | 41584 |
| 12-FEB-2010 05:06:31 | BetAra    | 141 | 41584 |
| 12-FEB-2010 05:08:12 | GamLup    | 131 | 41585 |
| 12-FEB-2010 05:11:29 | DSA1027   | 0   | 41585 |
| 12-FEB-2010 05:13:48 | BetCen    | 10  | 41585 |
| 12-FEB-2010 05:16:59 | Alp1Cru   | 12  | 41585 |
| 12-FEB-2010 05:18:24 | GamCen    | 64  | 41585 |
| 12-FEB-2010 05:23:15 | KapVel    | 91  | 41585 |
| 12-FEB-2010 05:26:34 | LamVel    | 65  | 41585 |
| 12-FEB-2010 05:32:40 | 15RhoPup  | 132 | 41585 |

|                      |          |     |       |
|----------------------|----------|-----|-------|
| 12-FEB-2010 05:36:43 | 30AlpHya | 48  | 41585 |
| 12-FEB-2010 05:41:09 | 10AlpCMi | 8   | 41585 |
| 12-FEB-2010 05:47:30 | 78BetGem | 17  | 41585 |
| 12-FEB-2010 06:04:54 | 1AlpUMi  | 49  | 41585 |
| 12-FEB-2010 06:07:14 | 7BetUMi  | 60  | 41585 |
| 12-FEB-2010 06:12:05 | 14EtaDra | 119 | 41585 |
| 12-FEB-2010 06:15:43 | 23BetDra | 130 | 41585 |
| 12-FEB-2010 06:19:49 | 3AlpLyr  | 5   | 41585 |
| 12-FEB-2010 06:26:38 | 17ZetAql | 168 | 41585 |
| 12-FEB-2010 06:28:38 | 55AlpOph | 59  | 41585 |
| 12-FEB-2010 06:30:52 | 60BetOph | 126 | 41585 |
| 12-FEB-2010 06:37:59 | 35EtaOph | 86  | 41585 |
| 12-FEB-2010 06:40:31 | 20EpsSgr | 38  | 41585 |
| 12-FEB-2010 06:42:52 | 21AlpSco | 16  | 41585 |
| 12-FEB-2010 06:43:50 | TheSco   | 40  | 41585 |
| 12-FEB-2010 06:45:38 | AlpAra   | 147 | 41585 |
| 12-FEB-2010 06:47:07 | BetAra   | 141 | 41585 |
| 12-FEB-2010 06:48:49 | GamLup   | 131 | 41586 |
| 12-FEB-2010 06:52:05 | DSA1027  | 0   | 41586 |
| 12-FEB-2010 06:54:25 | BetCen   | 10  | 41586 |
| 12-FEB-2010 06:57:35 | Alp1Cru  | 12  | 41586 |
| 12-FEB-2010 06:59:01 | GamCen   | 64  | 41586 |
| 12-FEB-2010 07:03:51 | KapVel   | 91  | 41586 |
| 12-FEB-2010 07:07:10 | LamVel   | 65  | 41586 |
| 12-FEB-2010 07:13:16 | 15RhoPup | 132 | 41586 |
| 12-FEB-2010 07:17:19 | 30AlpHya | 48  | 41586 |
| 12-FEB-2010 07:21:45 | 10AlpCMi | 8   | 41586 |
| 12-FEB-2010 07:28:06 | 78BetGem | 17  | 41586 |
| 12-FEB-2010 07:45:30 | 1AlpUMi  | 49  | 41586 |
| 12-FEB-2010 07:47:50 | 7BetUMi  | 60  | 41586 |
| 12-FEB-2010 07:52:41 | 14EtaDra | 119 | 41586 |
| 12-FEB-2010 07:56:19 | 23BetDra | 130 | 41586 |
| 12-FEB-2010 08:00:25 | 3AlpLyr  | 5   | 41586 |
| 12-FEB-2010 08:07:14 | 17ZetAql | 168 | 41586 |
| 12-FEB-2010 08:09:14 | 55AlpOph | 59  | 41586 |
| 12-FEB-2010 08:11:28 | 60BetOph | 126 | 41586 |
| 12-FEB-2010 08:18:35 | 35EtaOph | 86  | 41586 |
| 12-FEB-2010 08:21:07 | 20EpsSgr | 38  | 41586 |
| 12-FEB-2010 08:23:07 | 35LamSco | 25  | 41586 |
| 12-FEB-2010 08:24:27 | TheSco   | 40  | 41586 |
| 12-FEB-2010 08:26:14 | AlpAra   | 147 | 41586 |
| 12-FEB-2010 08:27:43 | BetAra   | 141 | 41586 |
| 12-FEB-2010 08:29:26 | GamLup   | 131 | 41587 |
| 12-FEB-2010 08:32:42 | DSA1027  | 0   | 41587 |
| 12-FEB-2010 08:35:02 | BetCen   | 10  | 41587 |
| 12-FEB-2010 08:38:11 | Alp1Cru  | 12  | 41587 |
| 12-FEB-2010 08:39:38 | GamCen   | 64  | 41587 |
| 12-FEB-2010 08:44:28 | KapVel   | 91  | 41587 |
| 12-FEB-2010 08:47:47 | LamVel   | 65  | 41587 |
| 12-FEB-2010 08:53:52 | 15RhoPup | 132 | 41587 |
| 12-FEB-2010 08:57:55 | 30AlpHya | 48  | 41587 |
| 12-FEB-2010 09:02:21 | 10AlpCMi | 8   | 41587 |
| 12-FEB-2010 09:08:42 | 78BetGem | 17  | 41587 |
| 12-FEB-2010 09:26:06 | 1AlpUMi  | 49  | 41587 |
| 12-FEB-2010 09:28:26 | 7BetUMi  | 60  | 41587 |
| 12-FEB-2010 09:33:17 | 14EtaDra | 119 | 41587 |
| 12-FEB-2010 09:36:55 | 23BetDra | 130 | 41587 |
| 12-FEB-2010 09:41:01 | 3AlpLyr  | 5   | 41587 |
| 12-FEB-2010 09:47:50 | 17ZetAql | 168 | 41587 |

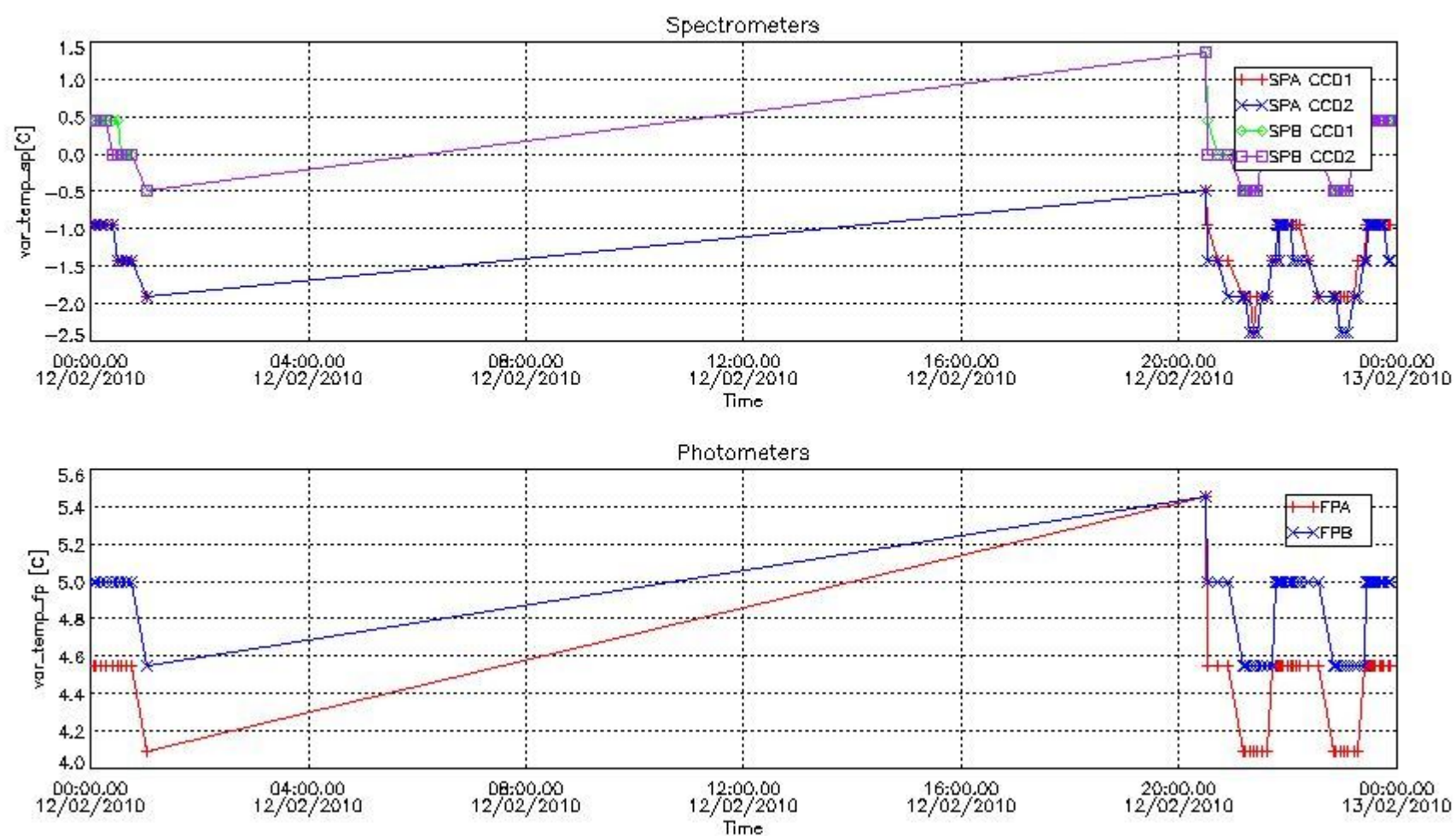
|                      |          |     |       |
|----------------------|----------|-----|-------|
| 12-FEB-2010 09:49:50 | 55AlpOph | 59  | 41587 |
| 12-FEB-2010 09:52:05 | 60BetOph | 126 | 41587 |
| 12-FEB-2010 09:59:12 | 35EtaOph | 86  | 41587 |
| 12-FEB-2010 10:01:44 | 20EpsSgr | 38  | 41587 |
| 12-FEB-2010 10:03:44 | 35LamSco | 25  | 41587 |
| 12-FEB-2010 10:05:03 | TheSco   | 40  | 41587 |
| 12-FEB-2010 10:06:51 | AlpAra   | 147 | 41587 |
| 12-FEB-2010 10:08:19 | BetAra   | 141 | 41587 |
| 12-FEB-2010 10:10:03 | GamLup   | 131 | 41588 |
| 12-FEB-2010 11:09:01 | 7BetUMi  | 60  | 41588 |
| 12-FEB-2010 15:06:52 | TheSco   | 40  | 41590 |
| 12-FEB-2010 16:08:30 | 1AlpUMi  | 49  | 41591 |
| 12-FEB-2010 16:47:29 | TheSco   | 40  | 41591 |
| 12-FEB-2010 16:58:04 | BetCen   | 10  | 41592 |
| 12-FEB-2010 18:10:51 | 17ZetAql | 168 | 41592 |

## 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_1PNPDE20100212_000306_000000382086_00445_41581_0312.N1 | 12-FEB-2010 00:03:06 | Dark       | 38.000   | 147     | Alp Ara   | 2.8770   | 26000.    | 76      | 41581 | No          |
| 2  | GOM_TRA_1PNPDE20100212_000434_000000492086_00445_41581_0313.N1 | 12-FEB-2010 00:04:34 | Dark       | 48.500   | 141     | Bet Ara   | 2.8400   | 4600.0    | 97      | 41581 | No          |
| 3  | GOM_TRA_1PNPDE20100212_000614_000000472086_00446_41582_0314.N1 | 12-FEB-2010 00:06:14 | Dark       | 46.500   | 131     | Gam Lup   | 2.8000   | 26000.    | 93      | 41582 | No          |
| 4  | GOM_TRA_1PNPDE20100212_001151_000000422086_00446_41582_0315.N1 | 12-FEB-2010 00:11:51 | Dark       | 42.000   | 10      | Bet Cen   | 0.61000  | 28000.    | 84      | 41582 | No          |
| 5  | GOM_TRA_1PNPDE20100212_001626_000000472086_00446_41582_0316.N1 | 12-FEB-2010 00:16:26 | Dark       | 46.500   | 64      | Gam Cen   | 2.2000   | 10600.    | 93      | 41582 | No          |
| 6  | GOM_TRA_1PNPDE20100212_002438_000000442086_00446_41582_0317.N1 | 12-FEB-2010 00:24:38 | Straylight | 44.000   | 65      | Lam Vel   | 2.2040   | 4400.0    | 88      | 41582 | No          |
| 7  | GOM_TRA_1PNPDE20100212_003044_000000422086_00446_41582_0318.N1 | 12-FEB-2010 00:30:44 | Straylight | 41.500   | 132     | 15Rho Pup | 2.8030   | 6900.0    | 83      | 41582 | No          |
| 8  | GOM_TRA_1PNPDE20100212_003448_000000522086_00446_41582_0319.N1 | 12-FEB-2010 00:34:48 | Straylight | 51.500   | 48      | 30Alp Hya | 1.9770   | 4100.0    | 103     | 41582 | No          |
| 9  | GOM_TRA_1PNPDE20100212_003913_000000482086_00446_41582_0320.N1 | 12-FEB-2010 00:39:13 | Bright     | 47.500   | 8       | 10Alp CMi | 0.40000  | 6500.0    | 95      | 41582 | No          |
| 10 | GOM_TRA_1PNPDE20100212_004534_000000402086_00446_41582_0321.N1 | 12-FEB-2010 00:45:34 | Bright     | 39.500   | 17      | 78Bet Gem | 1.1610   | 4500.0    | 79      | 41582 | No          |
| 11 | GOM_TRA_1PNPDE20100212_010259_000000372086_00446_41582_0322.N1 | 12-FEB-2010 01:02:59 | Bright     | 36.500   | 49      | 1Alp UMi  | 1.9900   | 6300.0    | 73      | 41582 | No          |
| 12 | GOM_TRA_1PNPDE20100212_202833_000000432086_00458_41594_0465.N1 | 12-FEB-2010 20:28:33 | Dark       | 42.500   | 91      | Kap Vel   | 2.4900   | 26000.    | 85      | 41594 | Yes         |
| 13 | GOM_TRA_1PNPDE20100212_203153_000000462086_00458_41594_0466.N1 | 12-FEB-2010 20:31:53 | Straylight | 46.000   | 65      | Lam Vel   | 2.2040   | 4400.0    | 92      | 41594 | No          |
| 14 | GOM_TRA_1PNPDE20100212_204159_000000532086_00458_41594_0467.N1 | 12-FEB-2010 20:41:59 | Straylight | 52.500   | 48      | 30Alp Hya | 1.9770   | 4100.0    | 105     | 41594 | No          |
| 15 | GOM_TRA_1PNPDE20100212_205246_000000402086_00458_41594_0468.N1 | 12-FEB-2010 20:52:46 | Bright     | 39.500   | 17      | 78Bet Gem | 1.1610   | 4500.0    | 79      | 41594 | No          |
| 16 | GOM_TRA_1PNPDE20100212_211010_000000332086_00458_41594_0469.N1 | 12-FEB-2010 21:10:10 | Bright     | 32.500   | 49      | 1Alp UMi  | 1.9900   | 6300.0    | 65      | 41594 | No          |
| 17 | GOM_TRA_1PNPDE20100212_211227_000000372086_00458_41594_0470.N1 | 12-FEB-2010 21:12:27 | Bright     | 36.500   | 60      | 7Bet UMi  | 2.0810   | 3950.0    | 73      | 41594 | No          |
| 18 | GOM_TRA_1PNPDE20100212_211719_000000402086_00458_41594_0471.N1 | 12-FEB-2010 21:17:19 | Bright     | 40.000   | 119     | 14Eta Dra | 2.7270   | 4700.0    | 80      | 41594 | No          |
| 19 | GOM_TRA_1PNPDE20100212_212058_000000372086_00458_41594_0472.N1 | 12-FEB-2010 21:20:58 | Bright     | 37.000   | 130     | 23Bet Dra | 2.7990   | 5800.0    | 74      | 41594 | No          |
| 20 | GOM_TRA_1PNPDE20100212_212505_000000422086_00458_41594_0473.N1 | 12-FEB-2010 21:25:05 | Bright     | 42.000   | 5       | 3Alp Lyr  | 0.033000 | 11000.    | 84      | 41594 | No          |
| 21 | GOM_TRA_1PNPDE20100212_213156_000000522086_00458_41594_0474.N1 | 12-FEB-2010 21:31:56 | Bright     | 52.000   | 168     | 17Zet Aql | 2.9860   | 11000.    | 104     | 41594 | No          |
| 22 | GOM_TRA_1PNPDE20100212_213612_000000482086_00458_41594_0475.N1 | 12-FEB-2010 21:36:12 | Bright     | 47.500   | 126     | 60Bet Oph | 2.7700   | 4250.0    | 95      | 41594 | No          |
| 23 | GOM_TRA_1PNPDE20100212_214321_000000512086_00458_41594_0486.N1 | 12-FEB-2010 21:43:21 | Dark       | 51.000   | 86      | 35Eta Oph | 2.4300   | 10200.    | 102     | 41594 | No          |
| 24 | GOM_TRA_1PNPDE20100212_214550_000000432086_00458_41594_0487.N1 | 12-FEB-2010 21:45:50 | Dark       | 43.000   | 38      | 20Eps Sgr | 1.8360   | 11000.    | 86      | 41594 | No          |
| 25 | GOM_TRA_1PNPDE20100212_214751_000000502086_00458_41594_0488.N1 | 12-FEB-2010 21:47:51 | Dark       | 49.500   | 25      | 35Lam Sco | 1.6200   | 28000.    | 99      | 41594 | No          |
| 26 | GOM_TRA_1PNPDE20100212_214910_000000502086_00458_41594_0489.N1 | 12-FEB-2010 21:49:10 | Dark       | 49.500   | 40      | The Sco   | 1.8590   | 7100.0    | 99      | 41594 | No          |
| 27 | GOM_TRA_1PNPDE20100212_215057_000000402086_00458_41594_0490.N1 | 12-FEB-2010 21:50:57 | Dark       | 40.000   | 147     | Alp Ara   | 2.8770   | 26000.    | 80      | 41594 | No          |
| 28 | GOM_TRA_1PNPDE20100212_215226_000000482086_00458_41594_0491.N1 | 12-FEB-2010 21:52:26 | Dark       | 48.000   | 141     | Bet Ara   | 2.8400   | 4600.0    | 96      | 41594 | No          |
| 29 | GOM_TRA_1PNPDE20100212_215414_000000462086_00459_41595_0492.N1 | 12-FEB-2010 21:54:14 | Dark       | 45.500   | 131     | Gam Lup   | 2.8000   | 26000.    | 91      | 41595 | No          |
| 30 | GOM_TRA_1PNPDE20100212_215946_000000422086_00459_41595_0493.N1 | 12-FEB-2010 21:59:46 | Dark       | 41.500   | 10      | Bet Cen   | 0.61000  | 28000.    | 83      | 41595 | No          |
| 31 | GOM_TRA_1PNPDE20100212_220255_000000402086_00459_41595_0494.N1 | 12-FEB-2010 22:02:55 | Dark       | 40.000   | 12      | Alp1Cru   | 0.77500  | 30000.    | 80      | 41595 | No          |
| 32 | GOM_TRA_1PNPDE20100212_220424_000000462086_00459_41595_0495.N1 | 12-FEB-2010 22:04:24 | Dark       | 46.000   | 64      | Gam Cen   | 2.2000   | 10600.    | 92      | 41595 | No          |
| 33 | GOM_TRA_1PNPDE20100212_220910_000000422086_00459_41595_0496.N1 | 12-FEB-2010 22:09:10 | Dark       | 42.000   | 91      | Kap Vel   | 2.4900   | 26000.    | 84      | 41595 | No          |
| 34 | GOM_TRA_1PNPDE20100212_221229_000000452086_00459_41595_0497.N1 | 12-FEB-2010 22:12:29 | Straylight | 45.000   | 65      | Lam Vel   | 2.2040   | 4400.0    | 90      | 41595 | No          |
| 35 | GOM_TRA_1PNPDE20100212_222235_000000542086_00459_41595_0498.N1 | 12-FEB-2010 22:22:35 | Straylight | 53.500   | 48      | 30Alp Hya | 1.9770   | 4100.0    | 107     | 41595 | No          |
| 36 | GOM_TRA_1PNPDE20100212_223322_000000392086_00459_41595_0499.N1 | 12-FEB-2010 22:33:22 | Bright     | 39.000   | 17      | 78Bet Gem | 1.1610   | 4500.0    | 78      | 41595 | No          |
| 37 | GOM_TRA_1PNPDE20100212_225046_000000342086_00459_41595_0500.N1 | 12-FEB-2010 22:50:46 | Bright     | 34.000   | 49      | 1Alp UMi  | 1.9900   | 6300.0    | 68      | 41595 | No          |
| 38 | GOM_TRA_1PNPDE20100212_225303_000000432086_00459_41595_0501.N1 | 12-FEB-2010 22:53:03 | Bright     | 43.000   | 60      | 7Bet UMi  | 2.0810   | 3950.0    | 86      | 41595 | No          |
| 39 | GOM_TRA_1PNPDE20100212_225754_000000402086_00459_41595_0502.N1 | 12-FEB-2010 22:57:54 | Bright     | 40.000   | 119     | 14Eta Dra | 2.7270   | 4700.0    | 80      | 41595 | No          |

|    |  |                      |            |        |     |           |          |        |     |       |    |
|----|--|----------------------|------------|--------|-----|-----------|----------|--------|-----|-------|----|
| 40 | GOM_TRA_1PNPDE20100212_230134_000000422086_00459_41595_0503.N1 | 12-FEB-2010 23:01:34 | Bright     | 41.500 | 130 | 23Bet Dra | 2.7990   | 5800.0 | 83  | 41595 | No |
| 41 | GOM_TRA_1PNPDE20100212_230541_000000392086_00459_41595_0504.N1 | 12-FEB-2010 23:05:41 | Bright     | 39.000 | 5   | 3Alp Lyr  | 0.033000 | 11000. | 78  | 41595 | No |
| 42 | GOM_TRA_1PNPDE20100212_231232_000000522086_00459_41595_0505.N1 | 12-FEB-2010 23:12:32 | Bright     | 52.000 | 168 | 17Zet Aql | 2.9860   | 11000. | 104 | 41595 | No |
| 43 | GOM_TRA_1PNPDE20100212_231648_000000482086_00459_41595_0506.N1 | 12-FEB-2010 23:16:48 | Bright     | 47.500 | 126 | 60Bet Oph | 2.7700   | 4250.0 | 95  | 41595 | No |
| 44 | GOM_TRA_1PNPDE20100212_232358_000000542086_00459_41595_0506.N1 | 12-FEB-2010 23:23:58 | Dark       | 53.500 | 86  | 35Eta Oph | 2.4300   | 10200. | 107 | 41595 | No |
| 45 | GOM_TRA_1PNPDE20100212_232626_000000422086_00459_41595_0507.N1 | 12-FEB-2010 23:26:26 | Dark       | 41.500 | 38  | 20Eps Sgr | 1.8360   | 11000. | 83  | 41595 | No |
| 46 | GOM_TRA_1PNPDE20100212_232828_000000492086_00459_41595_0508.N1 | 12-FEB-2010 23:28:28 | Dark       | 49.000 | 25  | 35Lam Sco | 1.6200   | 28000. | 98  | 41595 | No |
| 47 | GOM_TRA_1PNPDE20100212_232946_000000502086_00459_41595_0509.N1 | 12-FEB-2010 23:29:46 | Dark       | 49.500 | 40  | The Sco   | 1.8590   | 7100.0 | 99  | 41595 | No |
| 48 | GOM_TRA_1PNPDE20100212_233134_000000392086_00459_41595_0510.N1 | 12-FEB-2010 23:31:34 | Dark       | 38.500 | 147 | Alp Ara   | 2.8770   | 26000. | 77  | 41595 | No |
| 49 | GOM_TRA_1PNPDE20100212_233302_000000432086_00459_41595_0511.N1 | 12-FEB-2010 23:33:02 | Dark       | 43.000 | 141 | Bet Ara   | 2.8400   | 4600.0 | 86  | 41595 | No |
| 50 | GOM_TRA_1PNPDE20100212_233451_000000462086_00460_41596_0512.N1 | 12-FEB-2010 23:34:51 | Dark       | 45.500 | 131 | Gam Lup   | 2.8000   | 26000. | 91  | 41596 | No |
| 51 | GOM_TRA_1PNPDE20100212_234023_000000422086_00460_41596_0513.N1 | 12-FEB-2010 23:40:23 | Dark       | 42.000 | 10  | Bet Cen   | 0.61000  | 28000. | 84  | 41596 | No |
| 52 | GOM_TRA_1PNPDE20100212_234331_000000492086_00460_41596_0514.N1 | 12-FEB-2010 23:43:31 | Dark       | 48.500 | 12  | Alp1Cru   | 0.77500  | 30000. | 97  | 41596 | No |
| 53 | GOM_TRA_1PNPDE20100212_234501_000000532086_00460_41596_0515.N1 | 12-FEB-2010 23:45:01 | Dark       | 52.500 | 64  | Gam Cen   | 2.2000   | 10600. | 105 | 41596 | No |
| 54 | GOM_TRA_1PNPDE20100212_234946_000000402086_00460_41596_0516.N1 | 12-FEB-2010 23:49:46 | Dark       | 39.500 | 91  | Kap Vel   | 2.4900   | 26000. | 79  | 41596 | No |
| 55 | GOM_TRA_1PNPDE20100212_235305_000000442086_00460_41596_0517.N1 | 12-FEB-2010 23:53:05 | Straylight | 43.500 | 65  | Lam Vel   | 2.2040   | 4400.0 | 87  | 41596 | No |

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



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

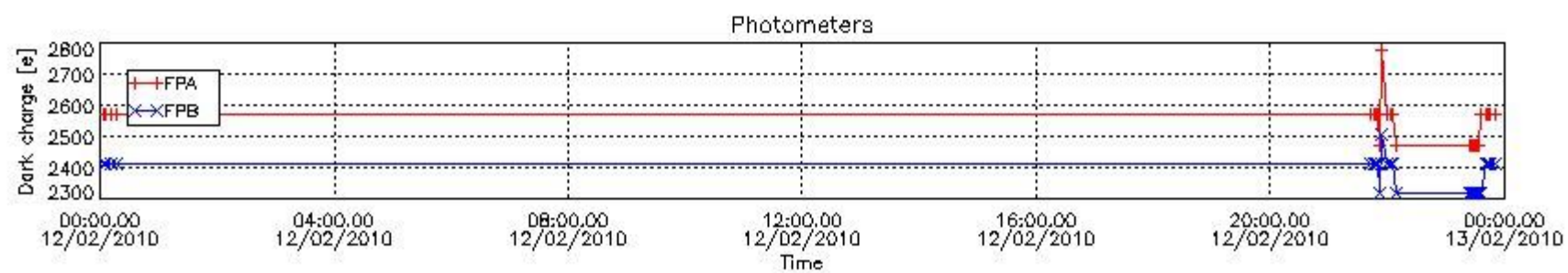
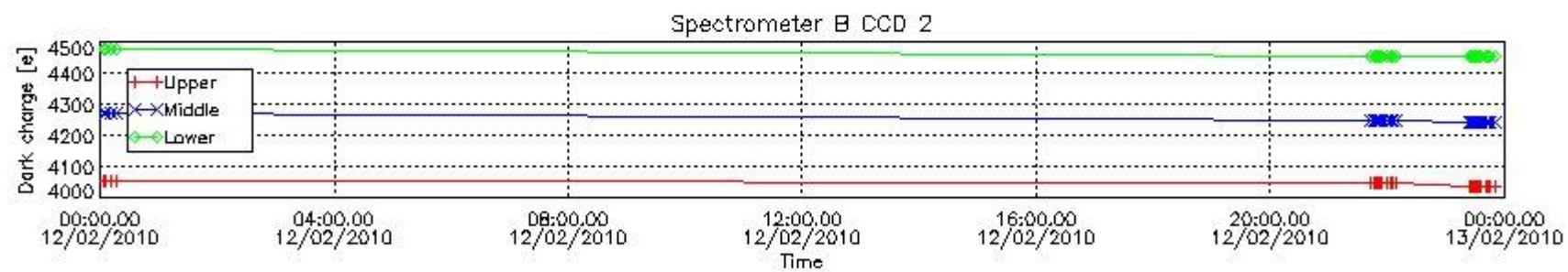
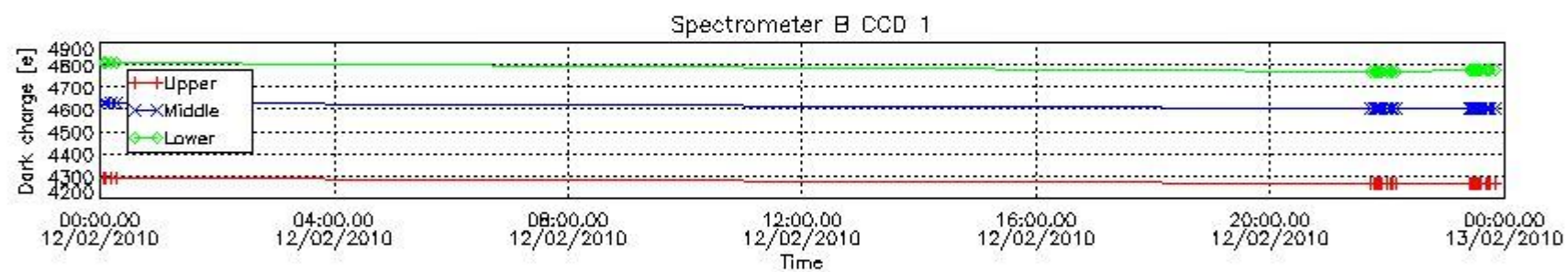
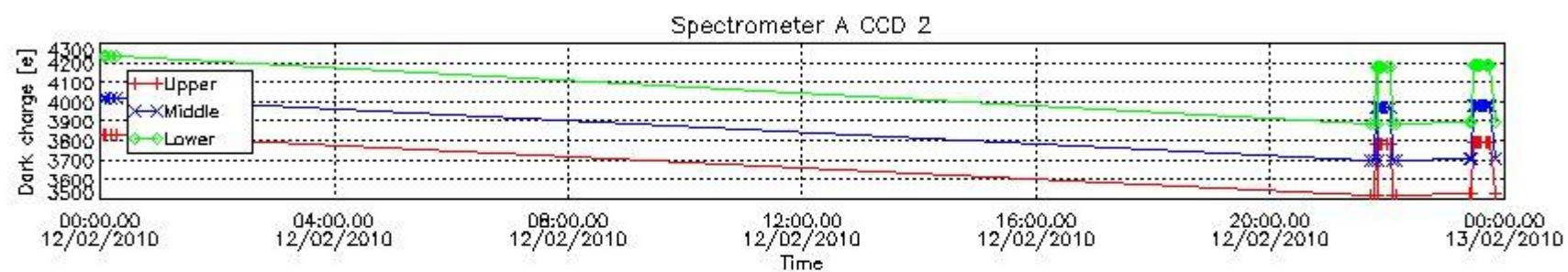
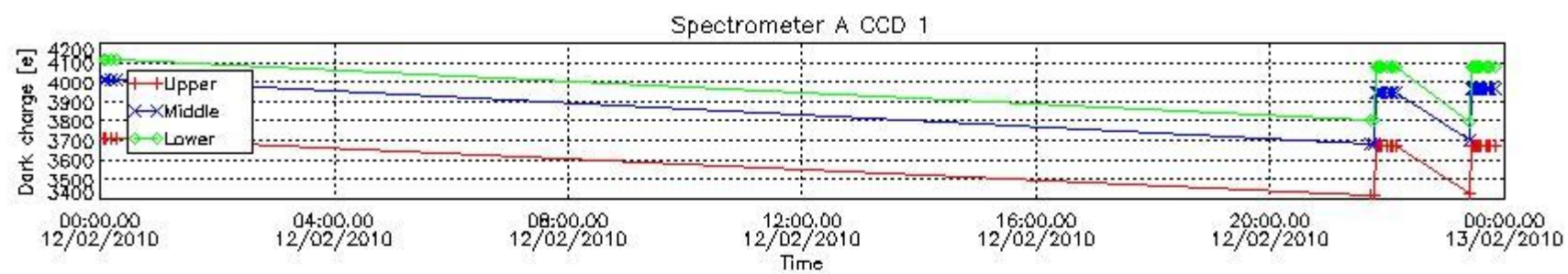
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100212_202833_000000432086_00458_41594_0465.N1 | DC map with no T dep. |
| GOM_TRA_1PNPDE20100212_203153_000000462086_00458_41594_0466.N1 | DC map used           |
| GOM_TRA_1PNPDE20100212_204159_000000532086_00458_41594_0467.N1 | DC map used           |
| GOM_TRA_1PNPDE20100212_205246_000000402086_00458_41594_0468.N1 | DC map used           |
| GOM_TRA_1PNPDE20100212_211010_000000332086_00458_41594_0469.N1 | DC map used           |
| GOM_TRA_1PNPDE20100212_211227_000000372086_00458_41594_0470.N1 | DC map used           |
| GOM_TRA_1PNPDE20100212_211719_000000402086_00458_41594_0471.N1 | DC map used           |
| GOM_TRA_1PNPDE20100212_212058_000000372086_00458_41594_0472.N1 | DC map used           |
| GOM_TRA_1PNPDE20100212_212505_000000422086_00458_41594_0473.N1 | DC map used           |
| GOM_TRA_1PNPDE20100212_213156_000000522086_00458_41594_0474.N1 | DC map used           |
| GOM_TRA_1PNPDE20100212_213612_000000482086_00458_41594_0475.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

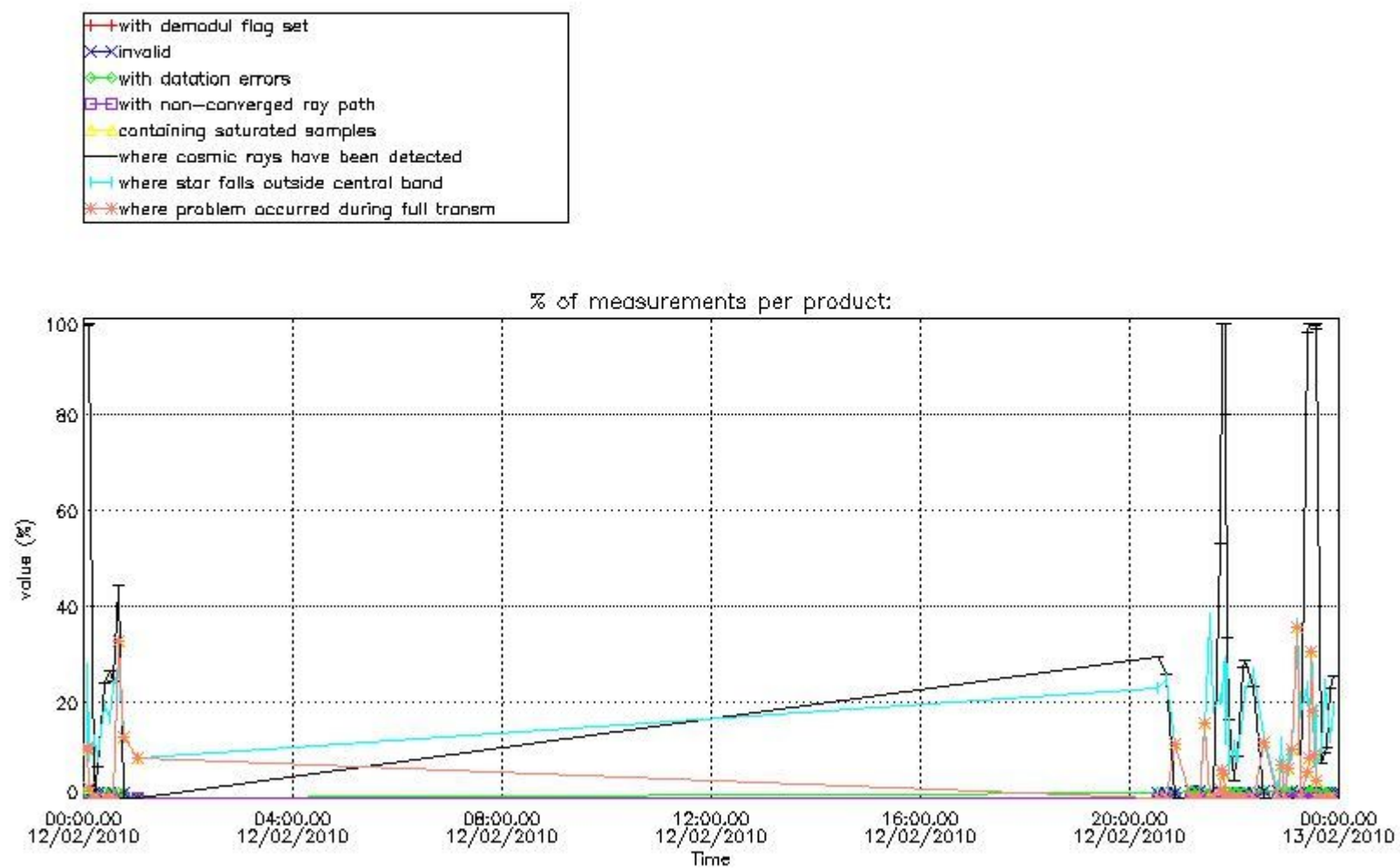
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

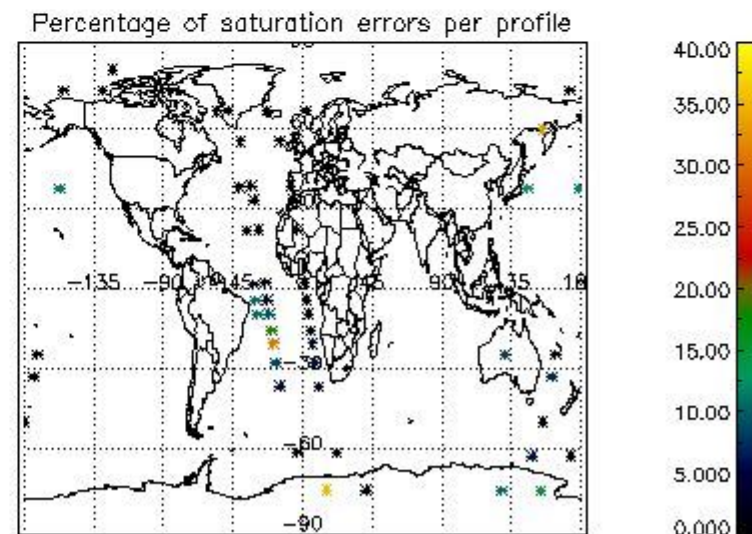
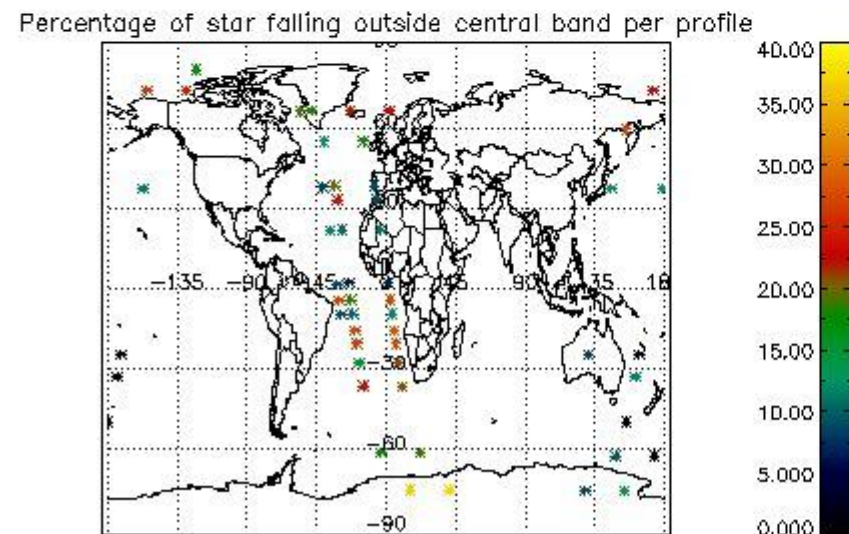
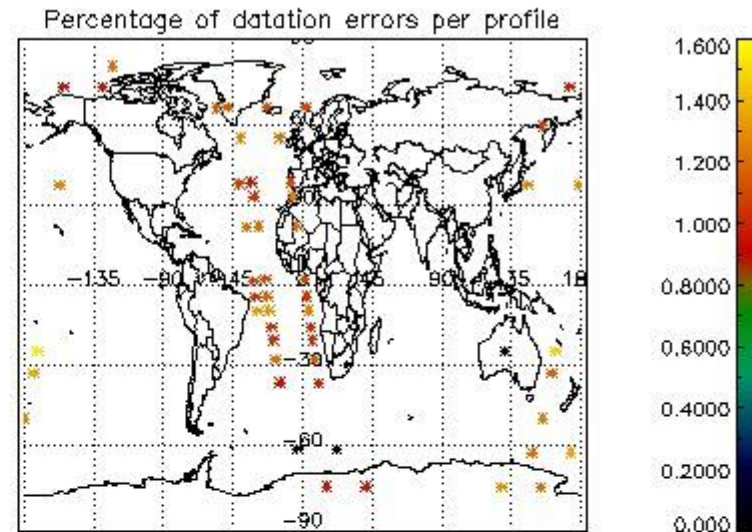
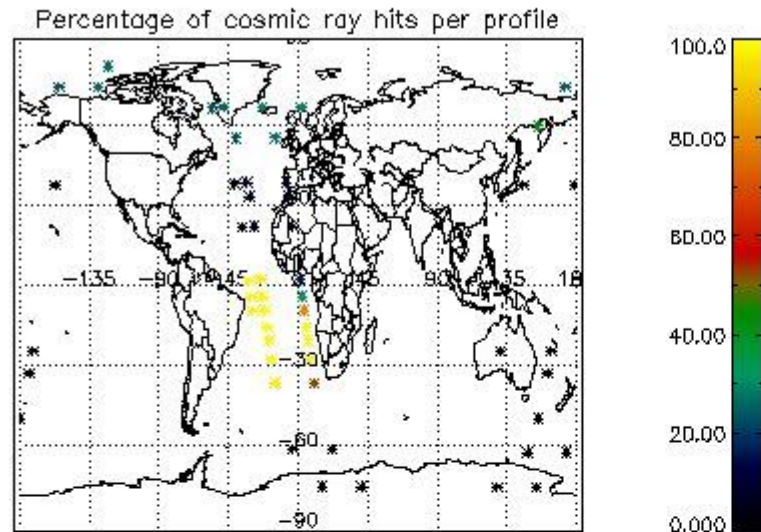


|   |           |
|---|-----------|
| At least one measurement with demodulation flag set:  | 42.5926 % |
| Reference spectrum computed from DB:                  | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used:                                   | 0.00000 % |

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



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



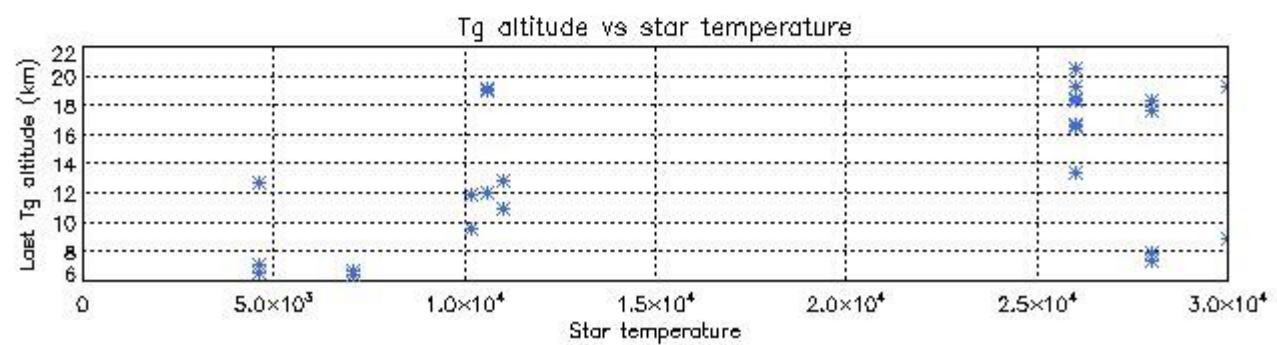
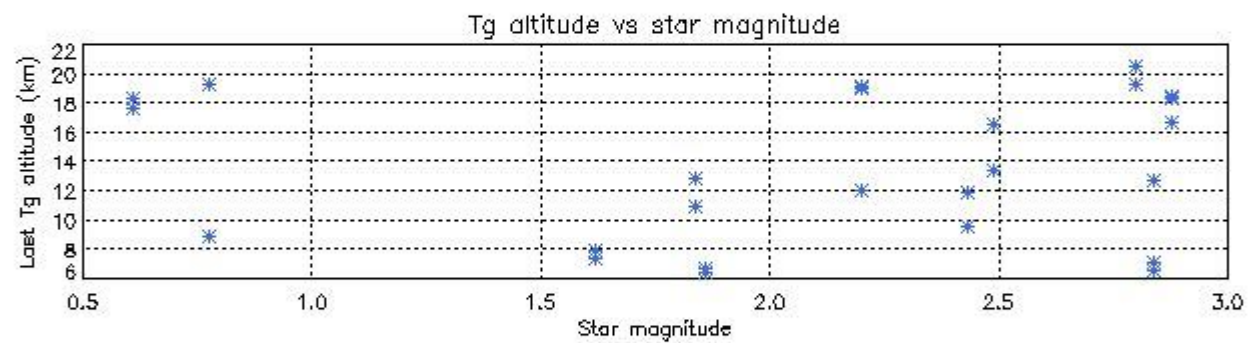
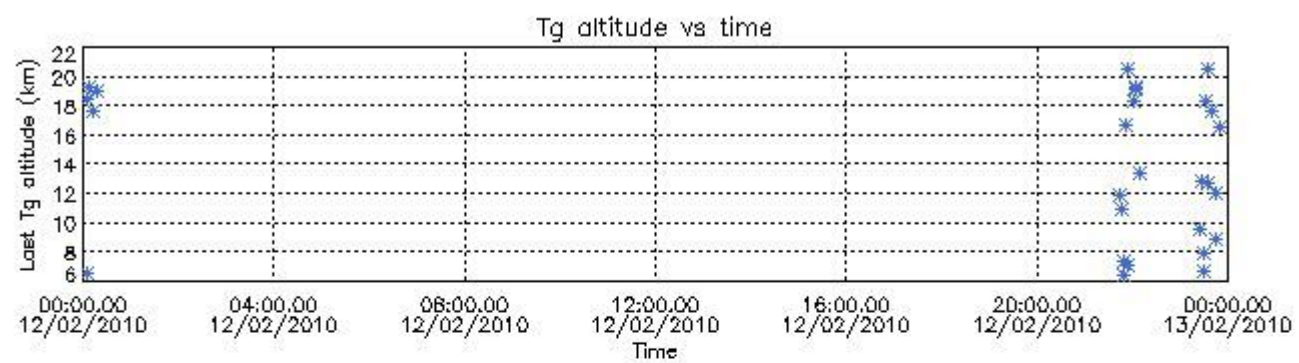
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

| Statistics      | DARK   | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean:           | 13.906 | 17.615 | NaN      |
| St. deviation:  | 5.0057 | 7.5773 | NaN      |
| Maximum:        | 20.543 | 28.959 | NaN      |
| Minimum:        | 6.4138 | 4.8706 | NaN      |
| Number of data: | 27.000 | 19.000 | NaN      |

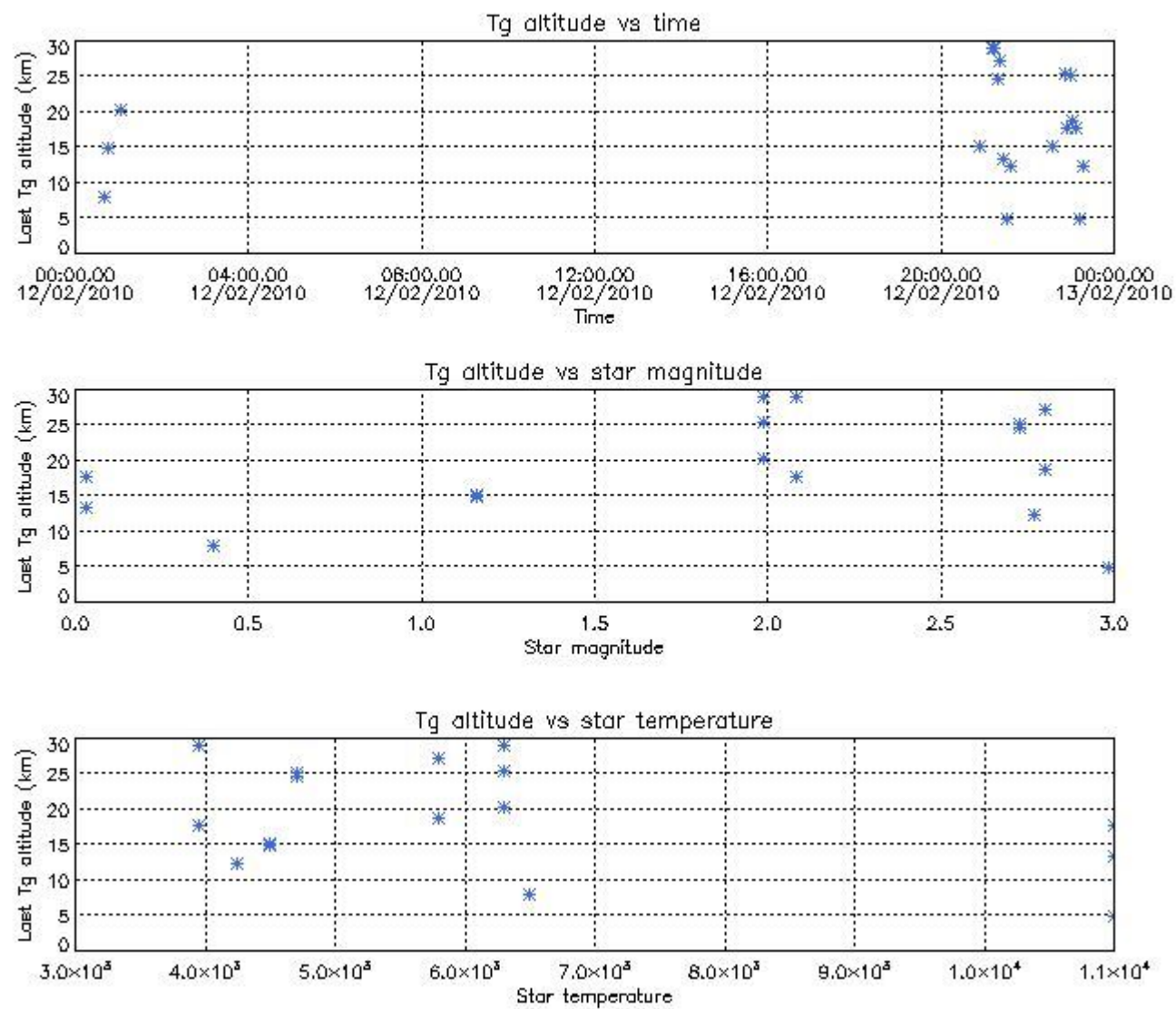
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

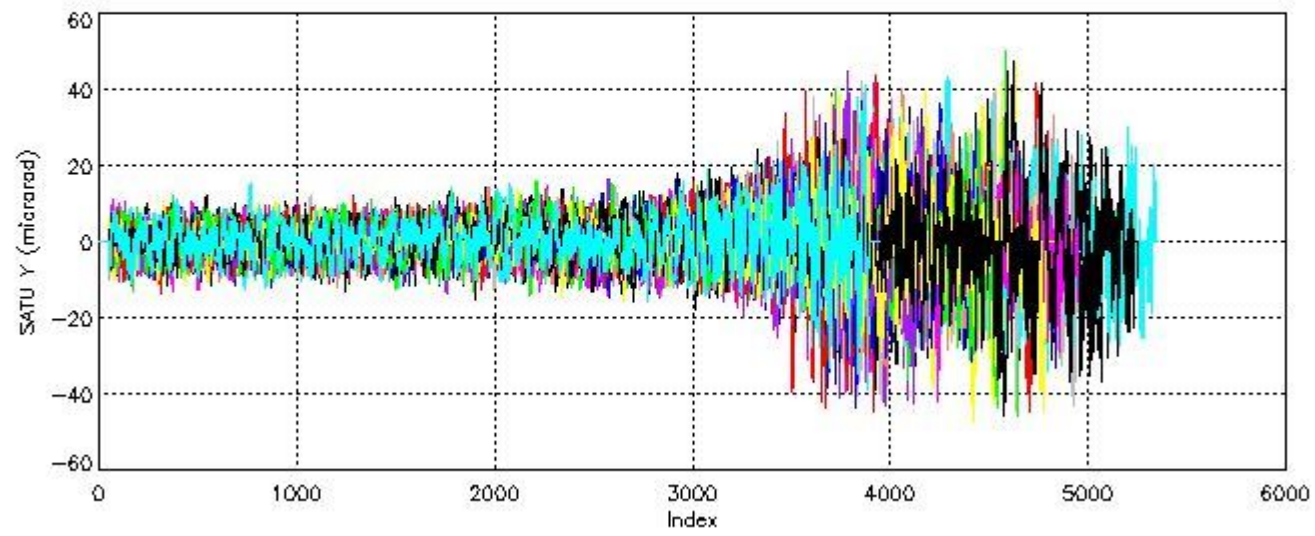
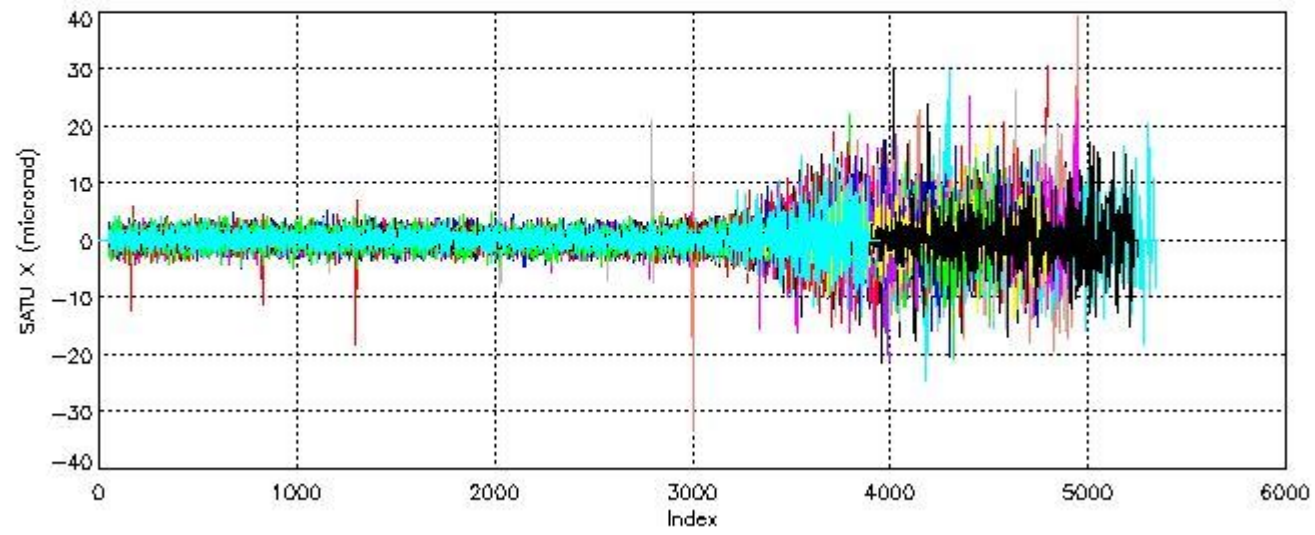


## 7. Star Acquisition and Tracking Unit (SATU)

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:          | 0.11681    | -0.40599   | 0.076131   | -0.25991   |
| St. deviation: | 0.74748    | 3.3251     | 0.59194    | 3.2239     |
| Maximum:       | 5.9000     | 15.200     | 6.0000     | 12.100     |
| Minimum:       | -12.200    | -13.800    | -6.7000    | -13.000    |

|                 |        |        |        |        |
|-----------------|--------|--------|--------|--------|
| Number of data: | 25800. | 25800. | 16950. | 16950. |
|-----------------|--------|--------|--------|--------|

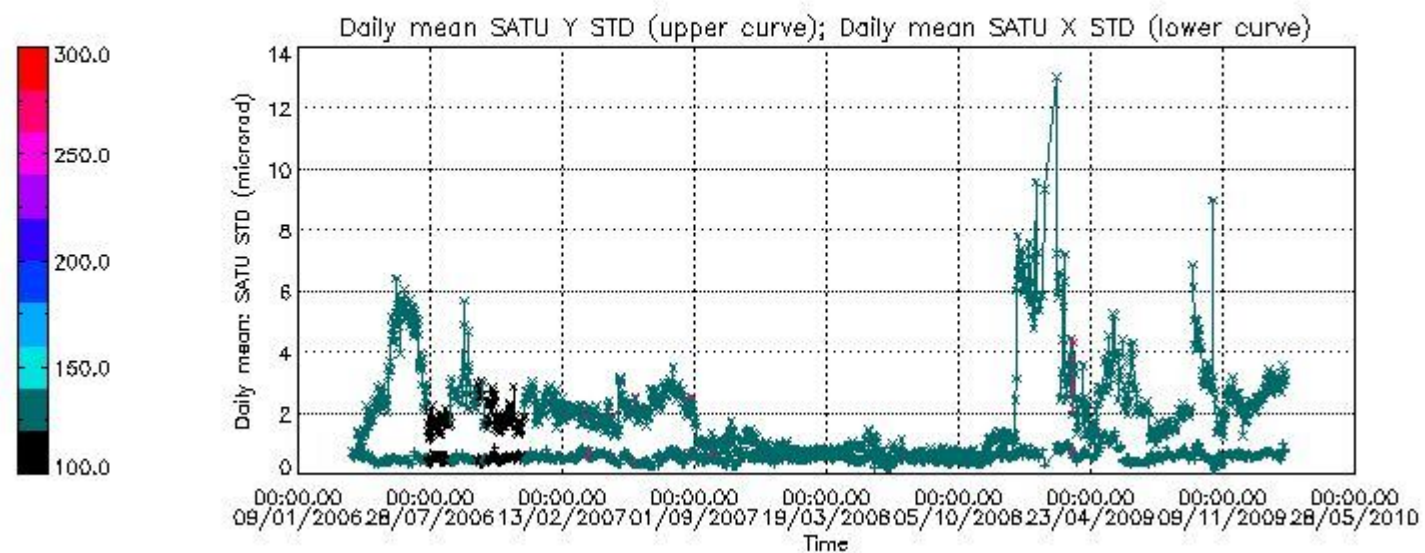
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

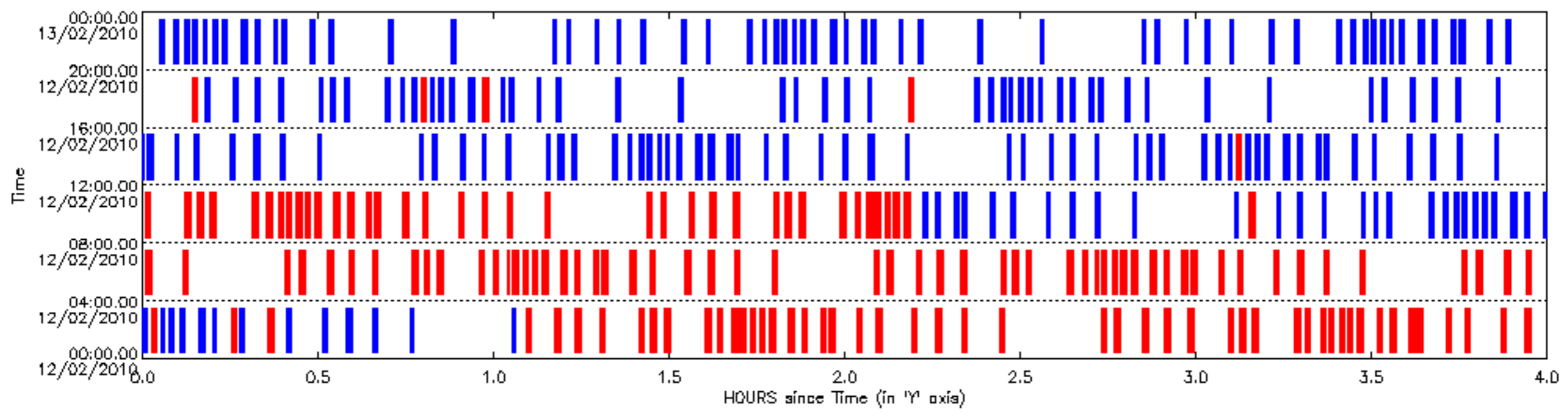
Lower curve: STD of SATU X axis

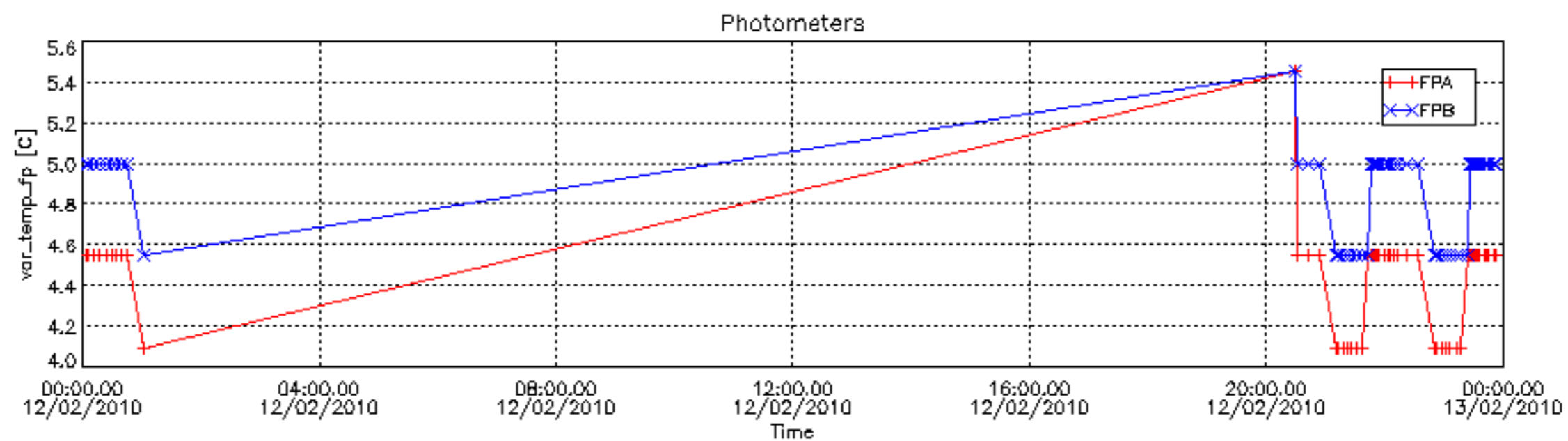
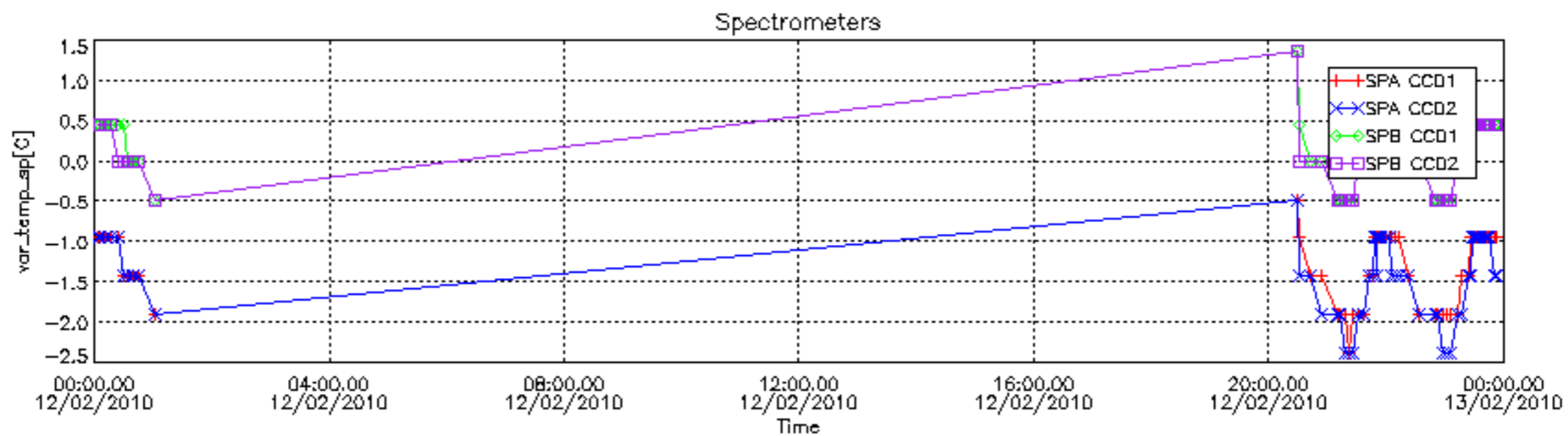


### 8. Auxiliary Data Files used for the production reported in section 2.4

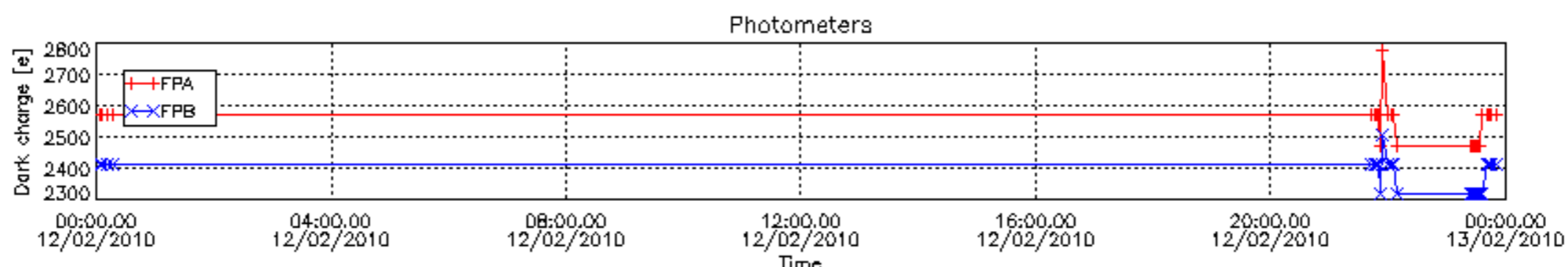
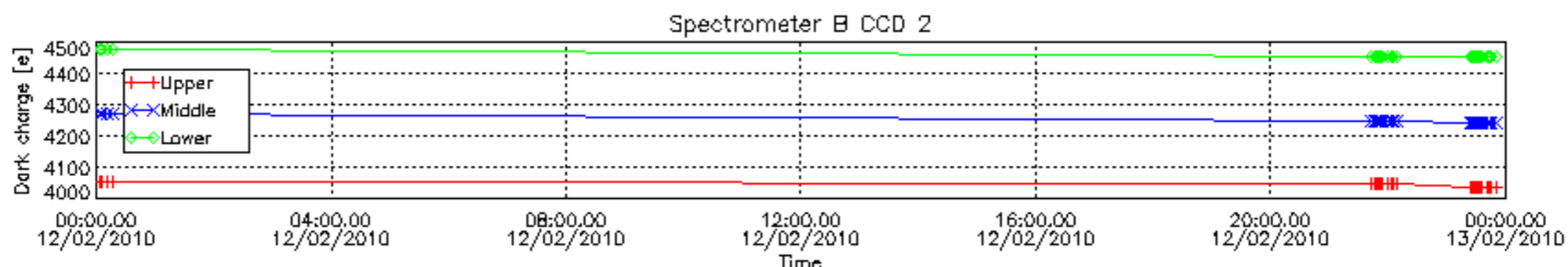
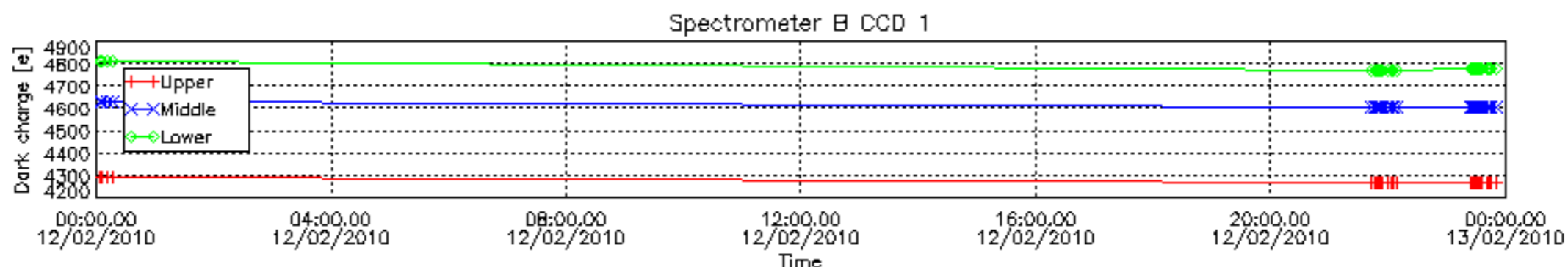
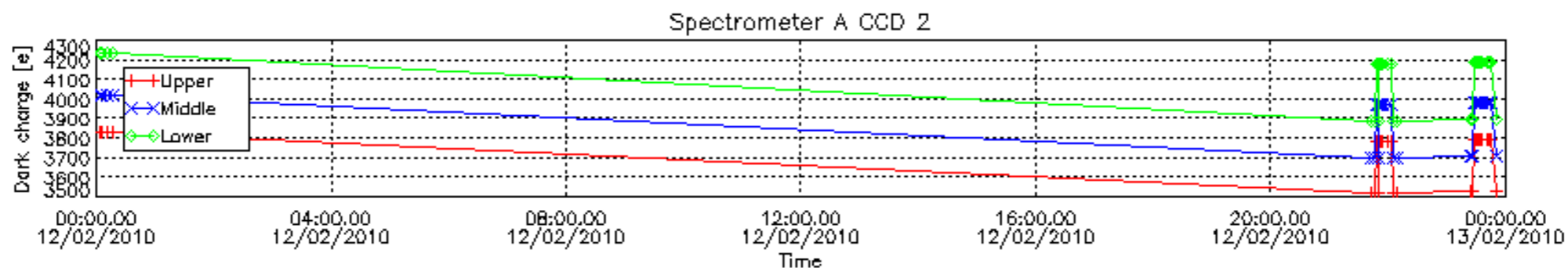
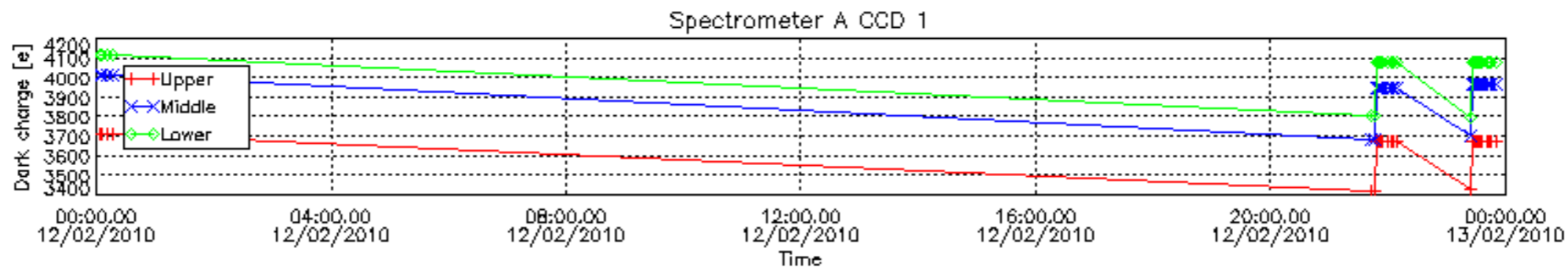
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

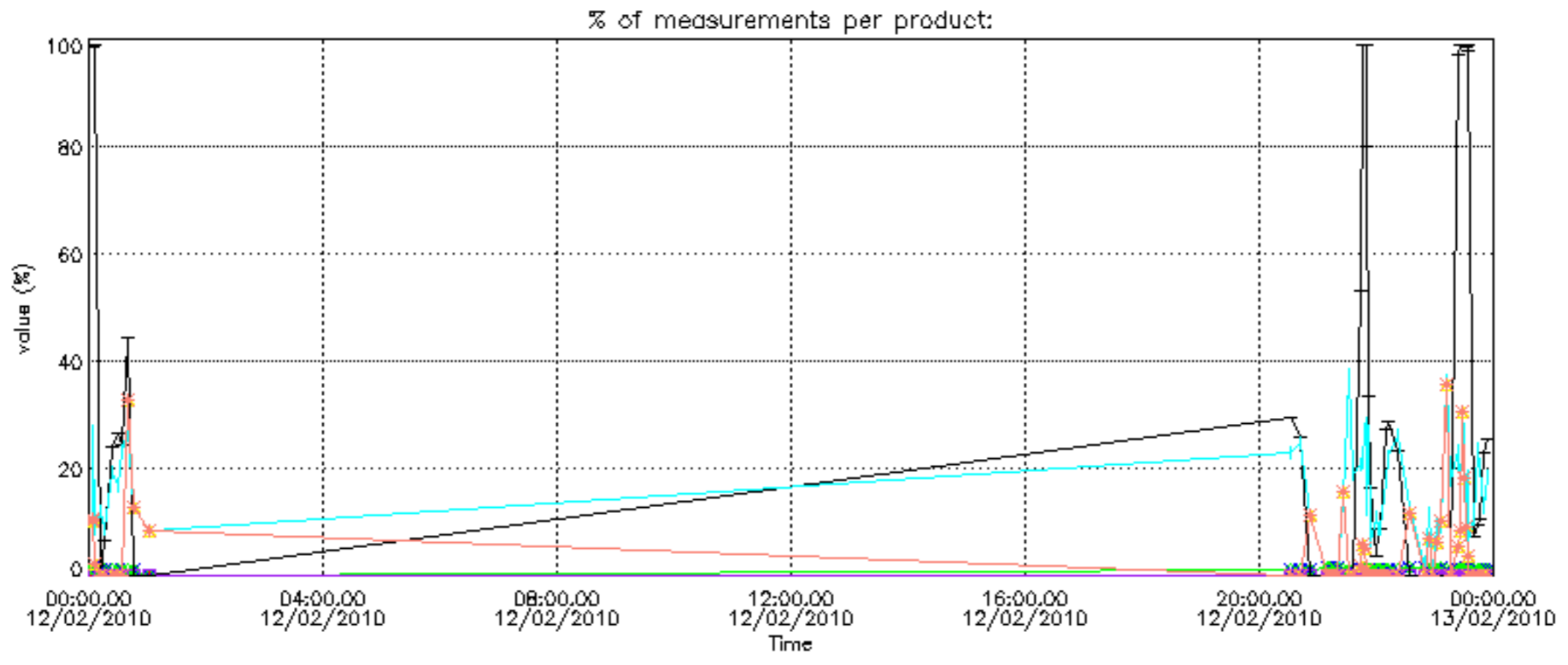
| Type                      | Auxiliary Filename   | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000  | 1                  | 12-FEB-2010 00:03:06    |
| CALIBRATION_DATABASE      | GOM_CAL_AXVIEC20100210_103840_20100209_000000_20500101_000000  | 1                  | 12-FEB-2010 00:03:06    |
| LEVEL-1B_PROC_CONFIG      | GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000  | 1                  | 12-FEB-2010 00:03:06    |
| STAR_CATALOGUE            | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000  | 1                  | 12-FEB-2010 00:03:06    |
| STELLAR_SPECTRA_DATABANK  | GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000  | 1                  | 12-FEB-2010 00:03:06    |
| ECMWF_FILE                | AUX_ECF_AXNECM20100211_062113_20100211_210000_20100212_090000  | 1                  | 12-FEB-2010 00:03:06    |
| ECMWF_FILE                | AUX_ECF_AXNECM20100212_062113_20100212_150000_20100213_030000  | 12                 | 12-FEB-2010 20:28:33    |
| ECMWF_FILE                | AUX_ECF_AXNECM20100212_062114_20100212_210000_20100213_090000  | 23                 | 12-FEB-2010 21:43:21    |
| OPTIONAL_ECMWF_FILE       | MISSING  | 1                  | 12-FEB-2010 00:03:06    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20100211_235050_000054192086_00445_41581_9747.N1 | 1                  | 12-FEB-2010 00:03:06    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20100212_202847_000038252086_00458_41594_9751.N1 | 12                 | 12-FEB-2010 20:28:33    |
| ORBIT_DATA_FILE           | AUX_FPO_AXVPDS20100212_120114_20100211_190401_20100221_203013  | 23                 | 12-FEB-2010 21:43:21    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20100212_231849_000057382086_00459_41595_9753.N1 | 44                 | 12-FEB-2010 23:23:58    |



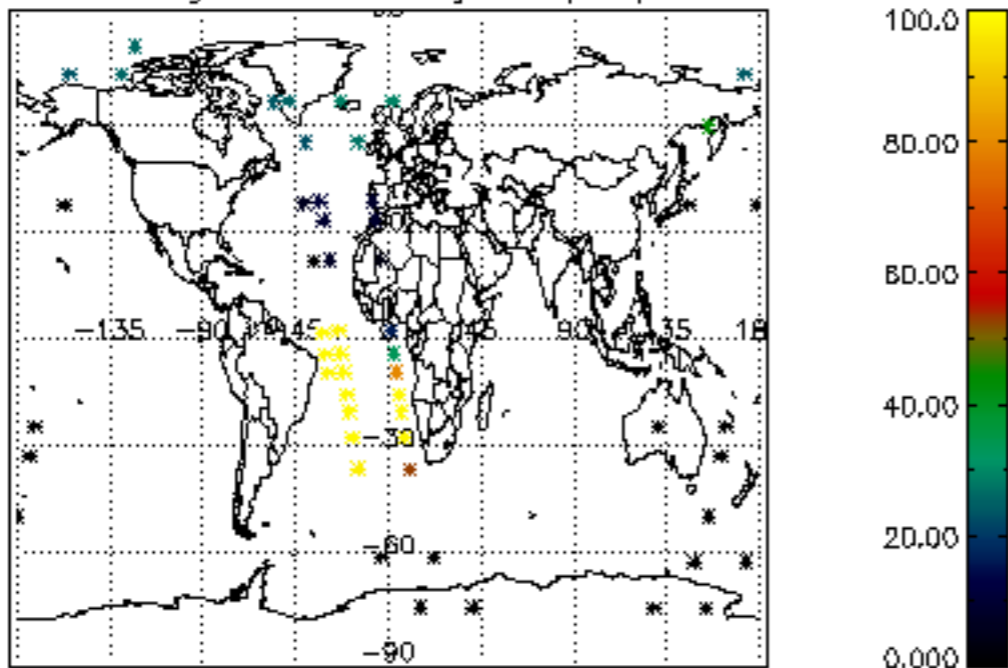




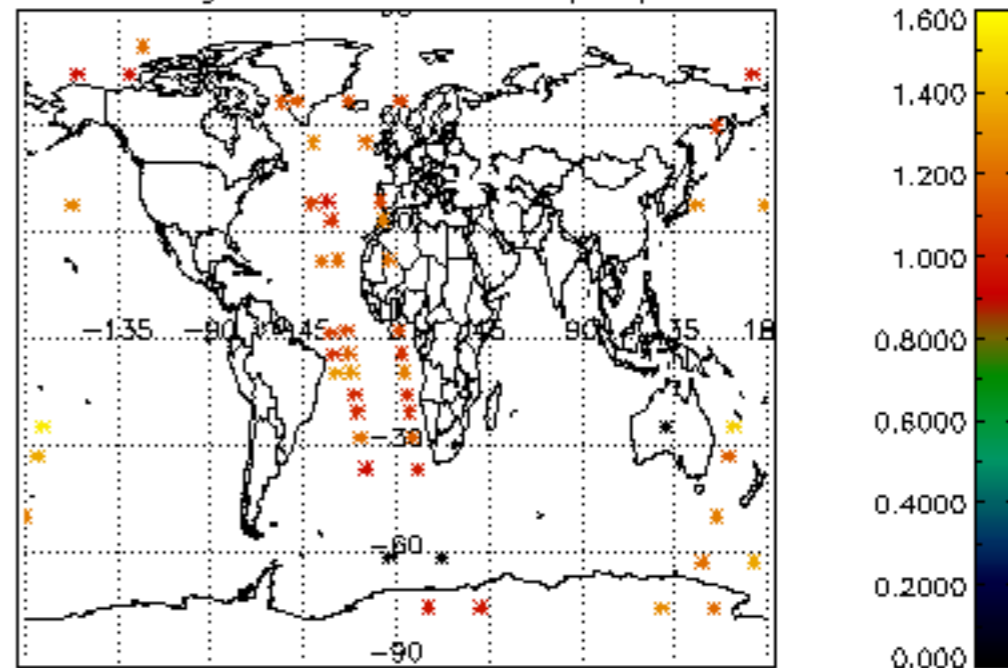




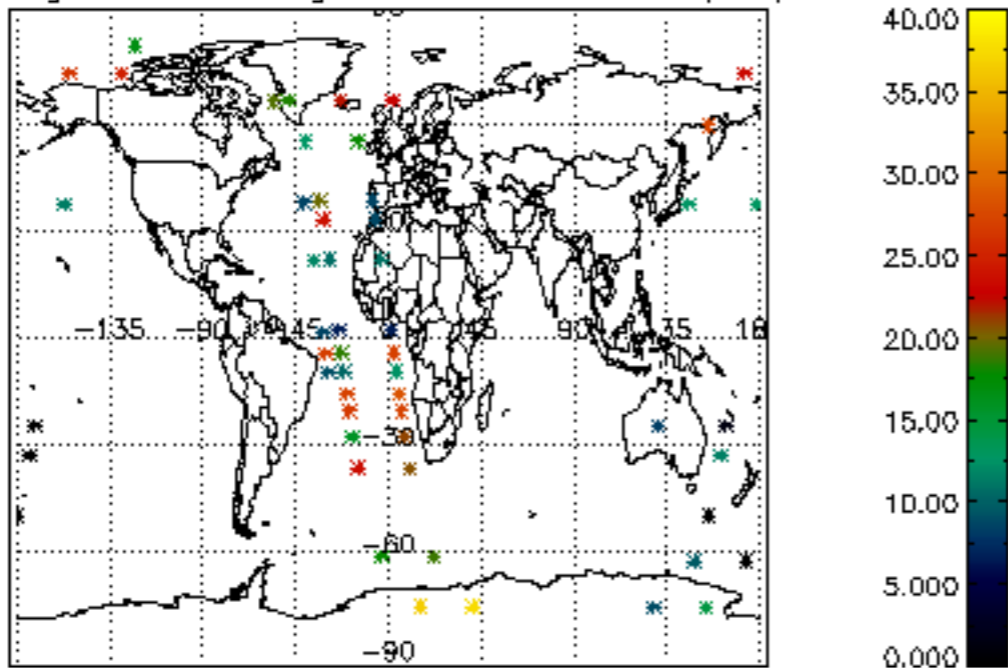
Percentage of cosmic ray hits per profile



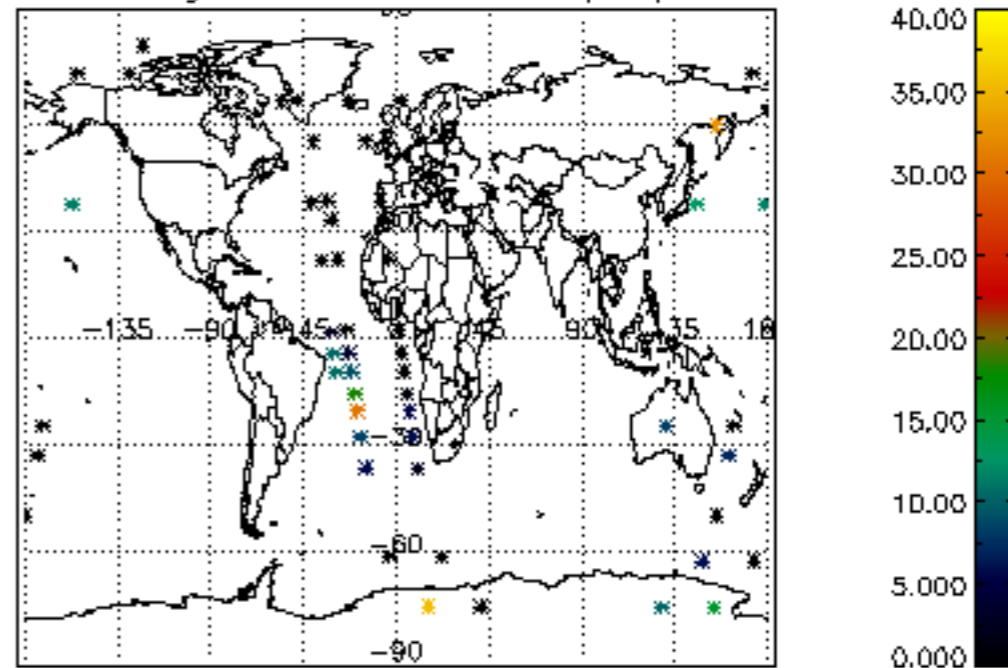
Percentage of datation errors per profile



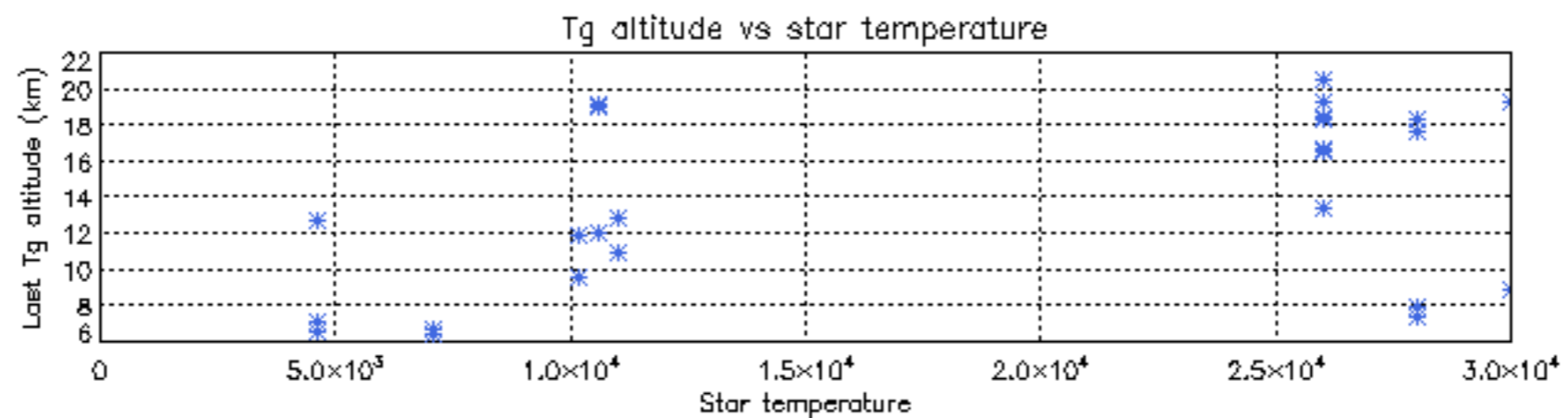
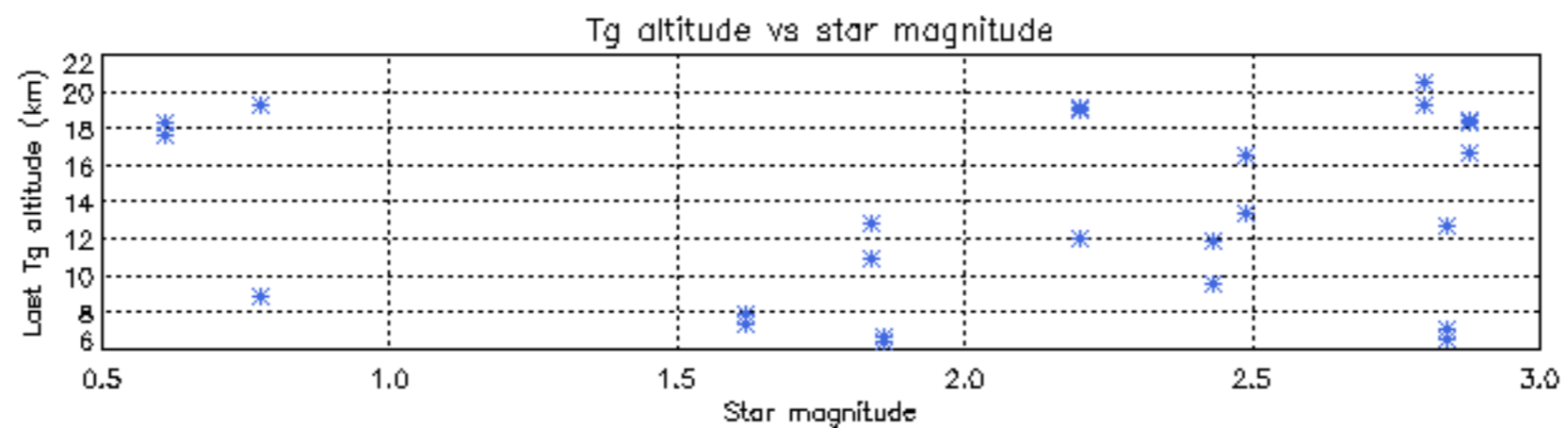
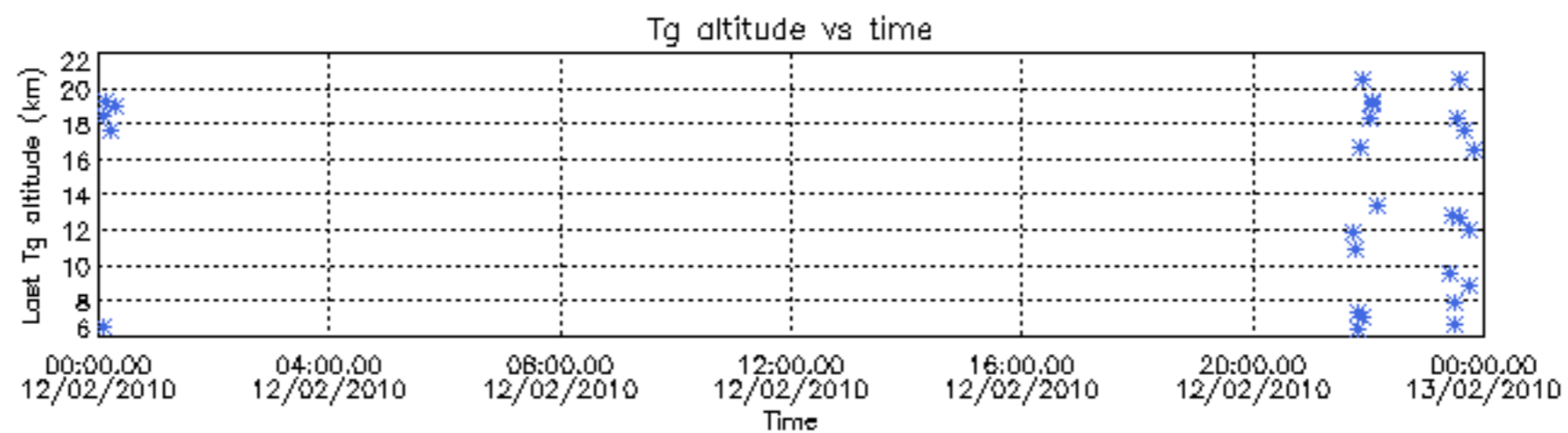
Percentage of star falling outside central band per profile



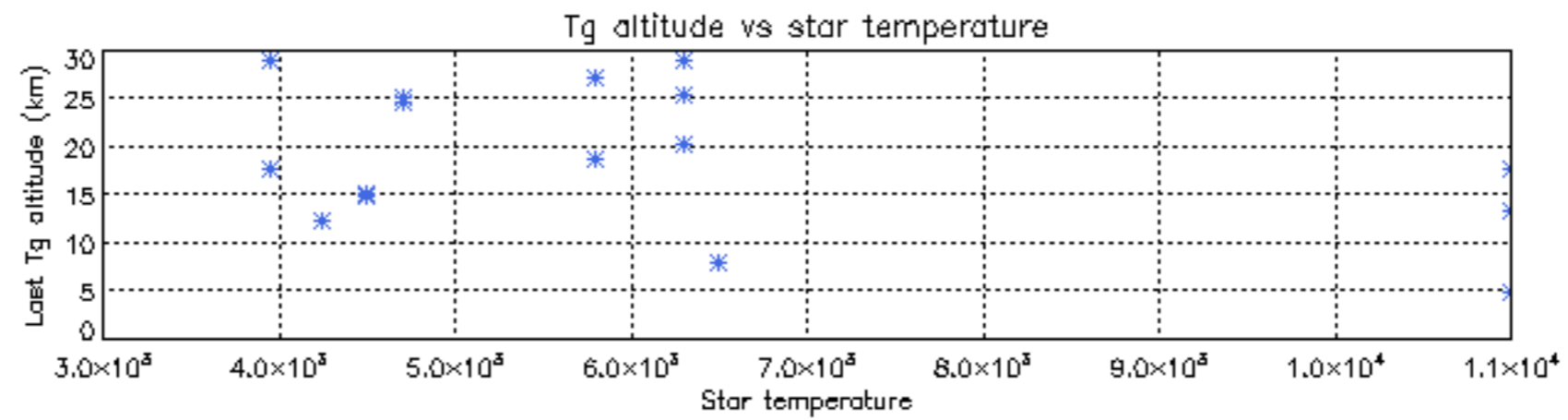
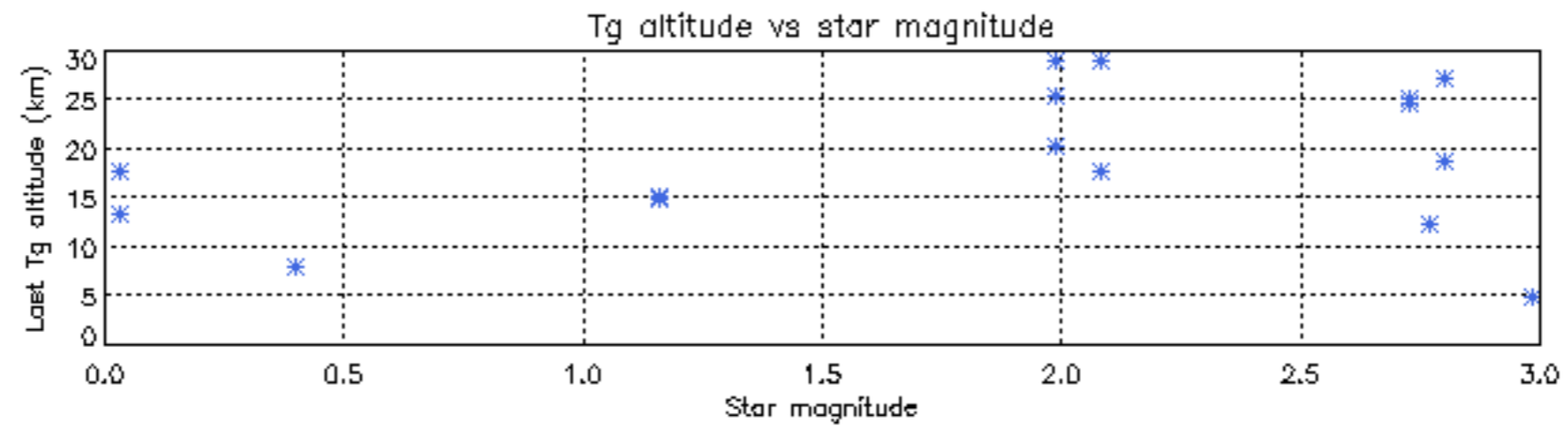
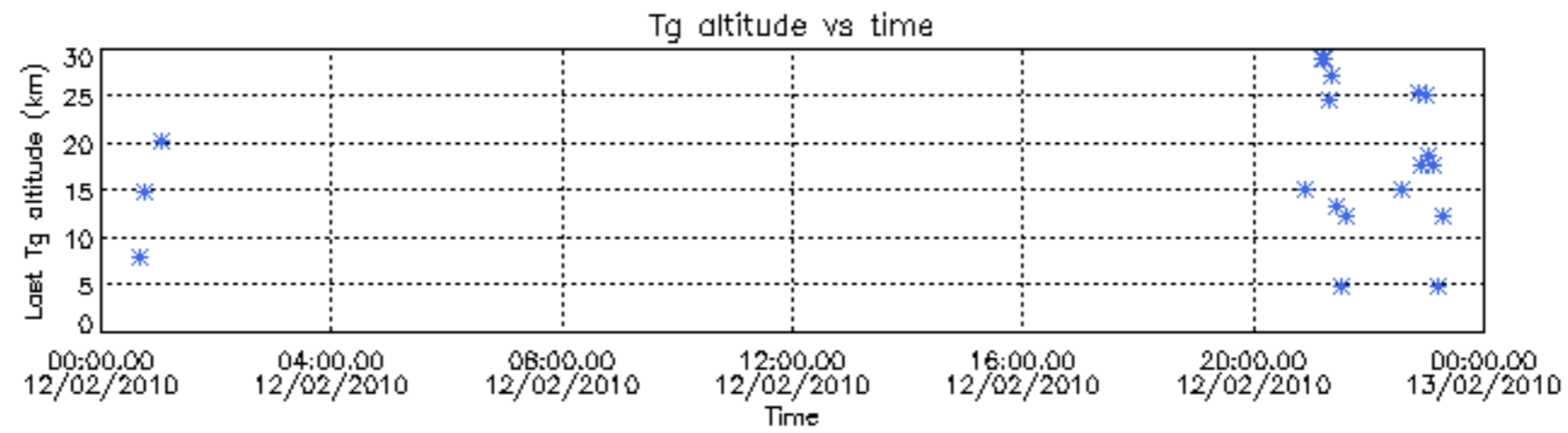
Percentage of saturation errors per profile

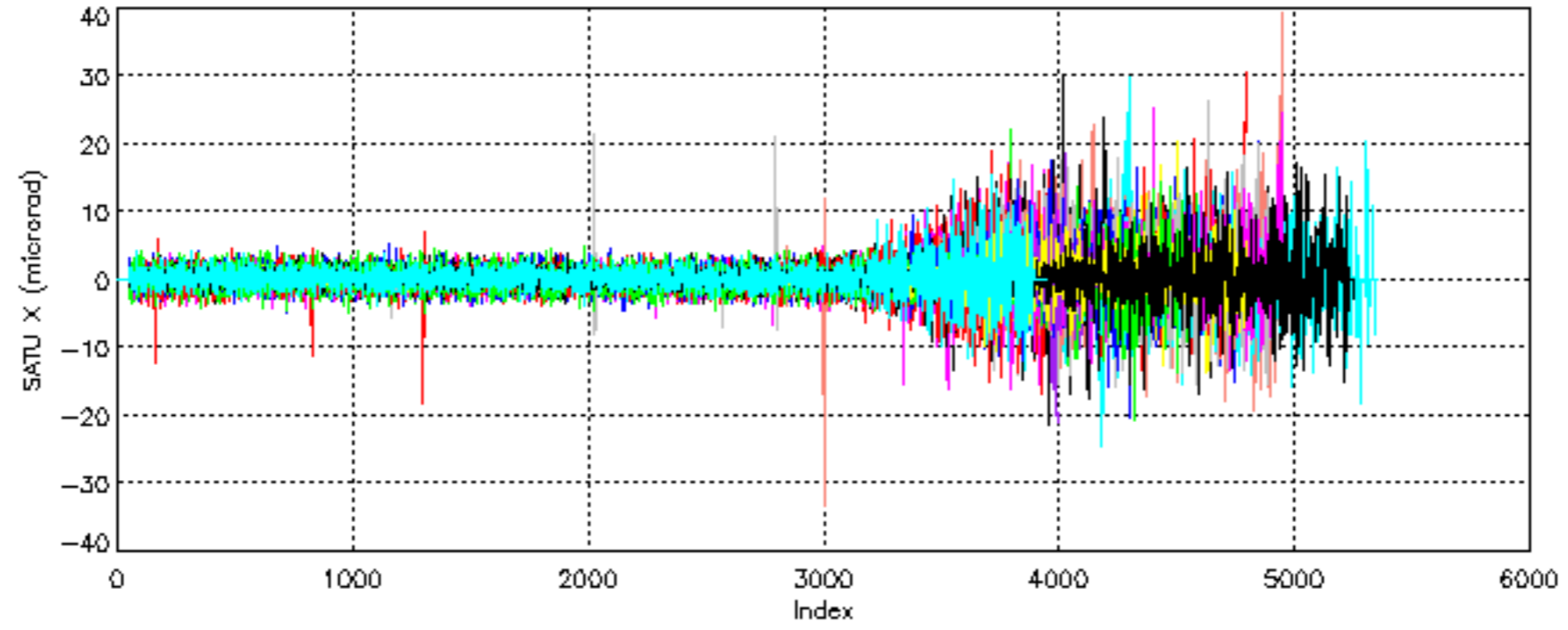


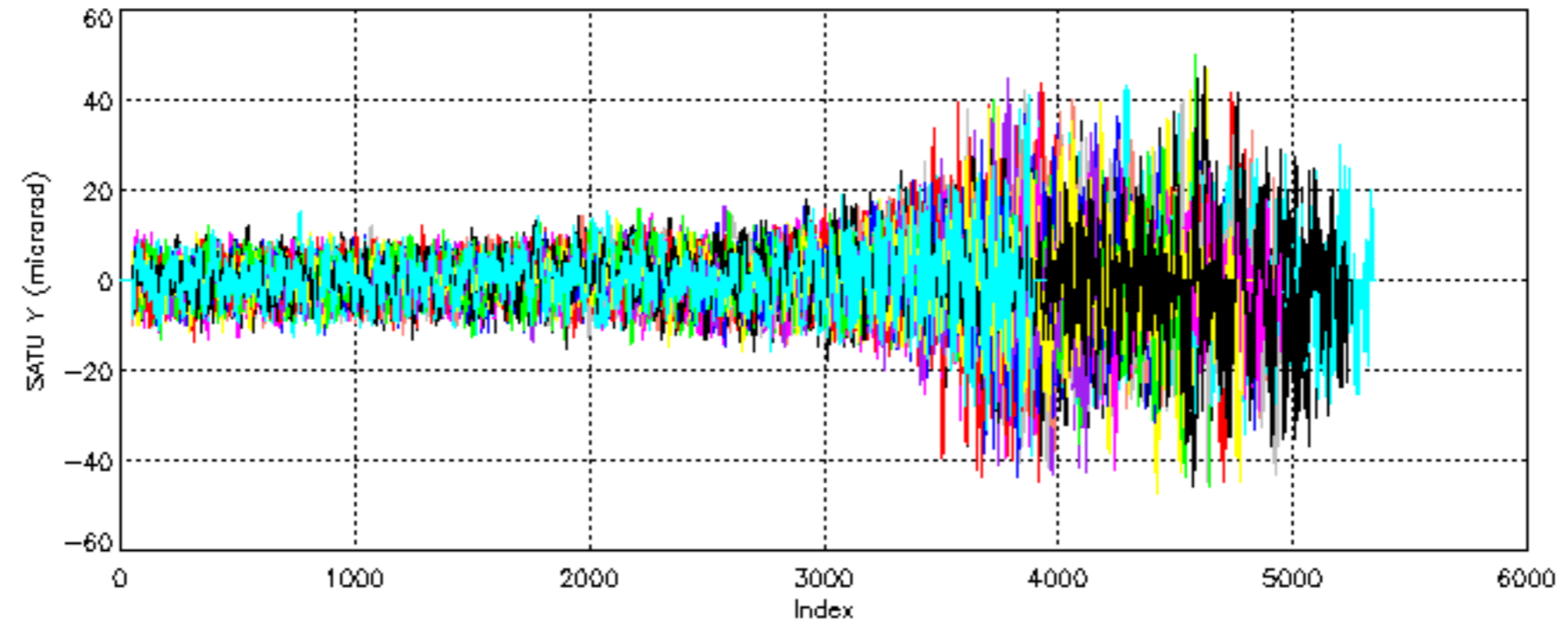
Tangent altitude at which the star is lost

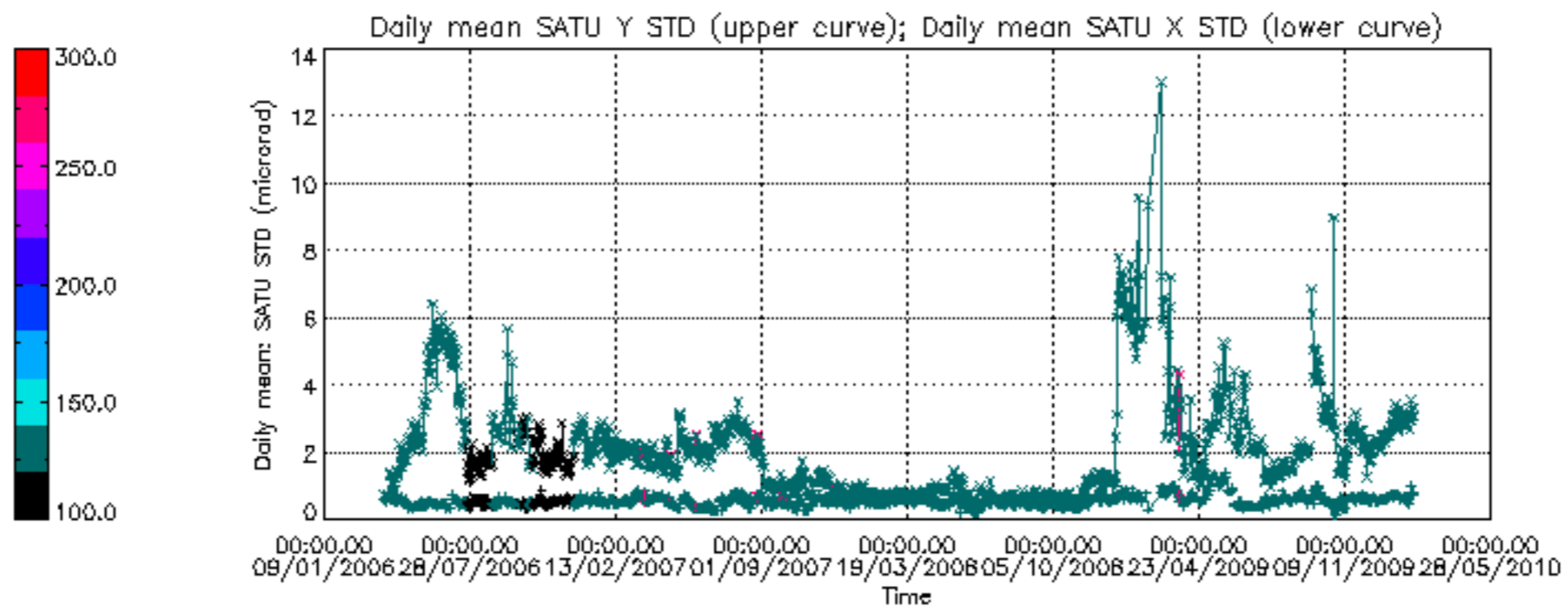


Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20100201\_003952\_000056972086\_00288\_41424\_9421.N1

1; -718.0; 01-FEB-2010 00:39:52; Dark ; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 8;41424  
 2; -463.4; 01-FEB-2010 00:44:06; Dark ; 49.0; 16; 21Alp Sco ; 1.02; 3000;occ; 98; 0;41424  
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 11; 823.9; 01-FEB-2010 01:05:34; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;41425  
 12; 928.5; 01-FEB-2010 01:07:18; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;41425  
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 19; 3427.8; 01-FEB-2010 01:48:58; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;41425  
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 23; 4304.9; 01-FEB-2010 02:03:35; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;41425  
 24; 4797.7; 01-FEB-2010 02:11:48; Bright; 55.0; 59; 55Alp Oph ; 2.08; 8900;occ; 110; 0;41425  
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 12; 709.0; 01-FEB-2010 02:44:15; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41426  
 13; 824.1; 01-FEB-2010 02:46:10; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;41426  
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4; 1207.6; 01-FEB-2010 19:38:33; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;41436
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16; 1469.8; 01-FEB-2010 21:23:31; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;41437
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 18; 933.9; 02-FEB-2010 07:18:10; Dark ; 45.5; 46; Del Vel ; 1.95; 10600;occ; 91; 0;41443  
 19; 1084.4; 02-FEB-2010 07:20:41; Dark ; 38.5; 34; Gam2Vel ; 1.79; 23000;occ; 77; 0;41443  
 20; 1209.3; 02-FEB-2010 07:22:46; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;41443  
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 6; 3893.1; 02-FEB-2010 08:07:30; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;41443  
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 12; 5586.1; 02-FEB-2010 08:35:43; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;41443  
 13; 5673.1; 02-FEB-2010 08:37:10; Dark ; 47.0; 158; 6Pi Sco ; 2.91; 28000;occ; 94; 0;41443  
 14; 5935.3; 02-FEB-2010 08:41:32; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;41443  
 15; 6071.1; 02-FEB-2010 08:43:48; Dark ; 45.5; 109; Bet Lup ; 2.68; 26000;occ; 91; 0;41443  
 16; 6241.2; 02-FEB-2010 08:46:38; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;41443  
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 18; 6516.4; 02-FEB-2010 08:51:13; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;41443  
 19; 6642.5; 02-FEB-2010 08:53:19; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;41443  
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 22; 6969.8; 02-FEB-2010 08:58:46; Dark ; 44.5; 46; Del Vel ; 1.95; 10600;occ; 89; 0;41443  
 23; 7120.3; 02-FEB-2010 09:01:17; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;41443  
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 3; 2454.1; 02-FEB-2010 09:24:07; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;41444  
 4; 3428.1; 02-FEB-2010 09:40:21; Bright; 50.0; 49; 1Alp UMi ; 1.99; 6300;occ; 100; 0;41444  
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 6; 3893.1; 02-FEB-2010 09:48:05; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;41444  
 7; 4086.4; 02-FEB-2010 09:51:19; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41444  
 8; 4307.5; 02-FEB-2010 09:55:00; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;41444  
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 11; 5324.2; 02-FEB-2010 10:11:57; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;41444  
 12; 5586.8; 02-FEB-2010 10:16:19; Dark ; 56.5; 16; 21Alp Sco ; 1.02; 3000;occ; 113; 0;41444  
 13; 5674.0; 02-FEB-2010 10:17:46; Dark ; 47.0; 158; 6Pi Sco ; 2.91; 28000;occ; 94; 0;41444  
 14; 6005.4; 02-FEB-2010 10:23:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41444  
 15; 6241.7; 02-FEB-2010 10:27:14; Dark ; 42.0; 4; Alp1Cen ; -0.01; 5800;occ; 84; 0;41444  
 16; 6314.7; 02-FEB-2010 10:28:27; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41444  
 17; 6517.0; 02-FEB-2010 10:31:49; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;41444  
 18; 6643.2; 02-FEB-2010 10:33:56; Dark ; 46.0; 99; Del Cen ; 2.58; 26000;occ; 92; 0;41444  
 19; 6751.2; 02-FEB-2010 10:35:44; Dark ; 41.0; 159; Ups Car ; 2.92; 7200;occ; 82; 0;41444  
 20; 6866.1; 02-FEB-2010 10:37:38; Dark ; 45.5; 71; Iot Car ; 2.25; 7700;occ; 91; 0;41444



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11; 5324.8; 02-FEB-2010 11:52:33; Dark ; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;41445
12; 5587.4; 02-FEB-2010 11:56:56; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;41445
13; 5675.3; 02-FEB-2010 11:58:24; Dark ; 46.5; 158; 6Pi Sco ; 2.91; 28000;occ; 93; 0;41445
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22; 6970.5; 02-FEB-2010 12:19:59; Dark ; 44.0; 46; Del Vel ; 1.95; 10600;occ; 88; 0;41445
23; 7120.8; 02-FEB-2010 12:22:29; Dark ; 37.0; 34; Gam2Vel ; 1.79; 23000;occ; 74; 0;41445
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21; 6644.7; 02-FEB-2010 13:55:09; Dark ; 46.5; 99; Del Cen ; 2.58; 26000;occ; 93; 0;41446
22; 6751.6; 02-FEB-2010 13:56:56; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41446
23; 6867.0; 02-FEB-2010 13:58:51; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;41446
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 23; 6971.1; 02-FEB-2010 15:41:11; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;41447  
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 3; 1471.8; 02-FEB-2010 17:30:44; Dark ; 39.5; 132; 15Rho Pup ; 2.80; 6900;occ; 79; 0;41449  
 4; 1993.3; 02-FEB-2010 17:39:25; Dark ; 50.0; 8; 10Alp CMi ; 0.40; 6500;occ; 100; 0;41449  
 5; 2350.1; 02-FEB-2010 17:45:22; Bright; 31.5; 170; 27Eps Gem ; 3.00; 9700;occ; 63; 0;41449  
 6; 2453.6; 02-FEB-2010 17:47:06; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;41449  
 7; 3428.1; 02-FEB-2010 18:03:20; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;41449  
 8; 3607.4; 02-FEB-2010 18:06:19; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41449  
 9; 3891.8; 02-FEB-2010 18:11:04; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;41449  
 10; 4086.7; 02-FEB-2010 18:14:19; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41449  
 11; 4308.2; 02-FEB-2010 18:18:00; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;41449  
 12; 4804.9; 02-FEB-2010 18:26:17; Bright; 56.0; 59; 55Alp Oph ; 2.08; 8900;occ; 112; 0;41449  
 13; 4933.3; 02-FEB-2010 18:28:25; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;41449  
 14; 5327.1; 02-FEB-2010 18:34:59; Dark ; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;41449  
 15; 5590.6; 02-FEB-2010 18:39:23; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;41449  
 16; 5678.9; 02-FEB-2010 18:40:51; Dark ; 47.0; 158; 6Pi Sco ; 2.91; 28000;occ; 94; 0;41449  
 17; 6007.5; 02-FEB-2010 18:46:19; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;41449  
 18; 6160.6; 02-FEB-2010 18:48:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41449  
 19; 6244.6; 02-FEB-2010 18:50:17; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;41449  
 20; 6317.7; 02-FEB-2010 18:51:30; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41449  
 21; 6519.8; 02-FEB-2010 18:54:52; Dark ; 51.5; 12; Alp1Cru ; 0.77; 30000;occ; 103; 0;41449  
 22; 6646.8; 02-FEB-2010 18:56:59; Dark ; 46.0; 99; Del Cen ; 2.58; 26000;occ; 92; 0;41449  
 23; 6752.5; 02-FEB-2010 18:58:44; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41449  
 24; 6867.6; 02-FEB-2010 19:00:40; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;41449  
 25; 6971.8; 02-FEB-2010 19:02:24; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41449  
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 5; 2390.5; 02-FEB-2010 19:26:38; Bright; 40.5; 17; 78Bet Gem ; 1.16; 4500;occ; 81; 0;41450  
 6; 3428.1; 02-FEB-2010 19:43:56; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;41450  
 7; 3607.4; 02-FEB-2010 19:46:55; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;41450  
 8; 3891.7; 02-FEB-2010 19:51:40; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;41450  
 9; 4086.7; 02-FEB-2010 19:54:55; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;41450  
 10; 4308.4; 02-FEB-2010 19:58:36; Bright; 34.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 68; 0;41450  
 11; 4805.3; 02-FEB-2010 20:06:53; Bright; 56.0; 59; 55Alp Oph ; 2.08; 8900;occ; 112; 0;41450  
 12; 4933.9; 02-FEB-2010 20:09:02; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;41450  
 13; 5327.7; 02-FEB-2010 20:15:36; Dark ; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;41450  
 14; 5591.1; 02-FEB-2010 20:19:59; Dark ; 52.5; 16; 21Alp Sco ; 1.02; 3000;occ; 105; 0;41450  
 15; 5680.0; 02-FEB-2010 20:21:28; Dark ; 48.0; 158; 6Pi Sco ; 2.91; 28000;occ; 96; 0;41450  
 16; 5941.0; 02-FEB-2010 20:25:49; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;41450  
 17; 6161.2; 02-FEB-2010 20:29:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41450  
 18; 6245.0; 02-FEB-2010 20:30:53; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;41450  
 19; 6318.2; 02-FEB-2010 20:32:06; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41450  
 20; 6520.3; 02-FEB-2010 20:35:28; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;41450  
 21; 6647.9; 02-FEB-2010 20:37:36; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;41450  
 22; 6752.7; 02-FEB-2010 20:39:21; Dark ; 40.0; 159; Ups Car ; 2.92; 7200;occ; 80; 0;41450  
 23; 6868.1; 02-FEB-2010 20:41:16; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41450  
 24; 6971.9; 02-FEB-2010 20:43:00; Dark ; 3.5; 46; Del Vel ; 1.95; 10600;occ; 7; 0;41450

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 5; 210.9; 03-FEB-2010 01:32:42; Dark ; 45.5; 4; Alp1Cen ; -0.01; 5800;occ; 91; 0;41454  
 6; 284.1; 03-FEB-2010 01:33:56; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;41454  
 7; 486.2; 03-FEB-2010 01:37:18; Dark ; 48.5; 12; Alp1Cru ; 0.77; 30000;occ; 97; 0;41454  
 8; 614.2; 03-FEB-2010 01:39:26; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;41454  
 9; 717.9; 03-FEB-2010 01:41:09; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41454  
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 11; 937.0; 03-FEB-2010 01:44:49; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;41454  
 12; 1086.6; 03-FEB-2010 01:47:18; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;41454  
 13; 1211.7; 03-FEB-2010 01:49:23; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;41454  
 14; 1472.7; 03-FEB-2010 01:53:44; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;41454  
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 17; 3428.3; 03-FEB-2010 02:26:20; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41454  
 18; 3606.0; 03-FEB-2010 02:29:17; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;41454  
 19; 3891.1; 03-FEB-2010 02:34:03; Bright; 46.0; 119; 14Eta Dra ; 2.73; 4700;occ; 92; 0;41454  
 20; 4086.4; 03-FEB-2010 02:37:18; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41454  
 21; 4308.8; 03-FEB-2010 02:41:00; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;41454  
 22; 4806.5; 03-FEB-2010 02:49:18; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;41454  
 23; 4935.1; 03-FEB-2010 02:51:27; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;41454  
 24; 5329.7; 03-FEB-2010 02:58:01; Dark ; 46.5; 86; 35Eta Oph ; 2.43; 10200;occ; 93; 0;41454  
 25; 5594.3; 03-FEB-2010 03:02:26; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;41454  
 26; 5944.5; 03-FEB-2010 03:08:16; Dark ; 44.5; 131; Gam Lup ; 2.80; 26000;occ; 89; 0;41454  
 27; 6081.3; 03-FEB-2010 03:10:33; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41454  
 28; 6164.1; 03-FEB-2010 03:11:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41454  
 29; 6247.3; 03-FEB-2010 03:13:19; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;41454  
 30; 6320.5; 03-FEB-2010 03:14:32; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41454  
 31; 6522.3; 03-FEB-2010 03:17:54; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;41454  
 32; 6651.0; 03-FEB-2010 03:20:02; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;41454  
 33; 6754.3; 03-FEB-2010 03:21:46; Dark ; 36.5; 159; Ups Car ; 2.92; 7200;occ; 73; 0;41454  
 34; 6869.4; 03-FEB-2010 03:23:41; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;41454  
 35; 6973.2; 03-FEB-2010 03:25:25; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;41454  
 36; 7123.0; 03-FEB-2010 03:27:54; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;41454  
 37; 7248.0; 03-FEB-2010 03:30:00; Dark ; 39.5; 70; Zet Pup ; 2.25; 39000;occ; 79; 0;41454  
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 39; 8029.3; 03-FEB-2010 03:43:01; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;41454  
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3;-2144.7; 03-FEB-2010 04:14:39; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;41455
4;-1949.3; 03-FEB-2010 04:17:54; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;41455
5;-1726.8; 03-FEB-2010 04:21:37; Bright; 42.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 85; 0;41455
6;-1229.3; 03-FEB-2010 04:29:54; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;41455
7;-1100.6; 03-FEB-2010 04:32:03; Bright; 45.0; 126; 60Bet Oph ; 2.77; 4250;occ; 90; 0;41455
8; -705.7; 03-FEB-2010 04:38:38; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;41455
9; -440.8; 03-FEB-2010 04:43:03; Dark ; 56.5; 16; 21Alp Sco ; 1.02; 3000;occ; 113; 0;41455
10; -351.3; 03-FEB-2010 04:44:32; Dark ; 48.0; 158; 6Pi Sco ; 2.91; 28000;occ; 96; 0;41455
11; -90.8; 03-FEB-2010 04:48:53; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;41455
12; 46.2; 03-FEB-2010 04:51:10; Dark ; 44.5; 109; Bet Lup ; 2.68; 26000;occ; 89; 0;41456
13; 212.0; 03-FEB-2010 04:53:55; Dark ; 56.0; 4; Alp1Cen ;-0.01; 5800;occ; 112; 0;41456
14; 285.3; 03-FEB-2010 04:55:09; Dark ; 50.0; 10; Bet Cen ; 0.61; 28000;occ; 100; 0;41456
15; 486.8; 03-FEB-2010 04:58:30; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;41456
16; 615.8; 03-FEB-2010 05:00:39; Dark ; 51.0; 99; Del Cen ; 2.58; 26000;occ; 102; 0;41456
17; 718.4; 03-FEB-2010 05:02:22; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41456
18; 833.7; 03-FEB-2010 05:04:17; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41456
19; 937.6; 03-FEB-2010 05:06:01; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;41456
20; 1087.3; 03-FEB-2010 05:08:31; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;41456
21; 1212.2; 03-FEB-2010 05:10:36; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;41456
22; 1473.1; 03-FEB-2010 05:14:56; Dark ; 41.5; 132; 15Rho Pup ; 2.80; 6900;occ; 83; 0;41456
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3;-1726.9; 03-FEB-2010 06:02:12; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;41456
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12; 487.5; 03-FEB-2010 06:39:07; Dark ; 48.5; 12; Alp1Cru ; 0.77; 30000;occ; 97; 0;41457
13; 616.6; 03-FEB-2010 06:41:16; Dark ; 45.5; 99; Del Cen ; 2.58; 26000;occ; 91; 0;41457
14; 719.0; 03-FEB-2010 06:42:58; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;41457
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18; 1212.6; 03-FEB-2010 06:51:12; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;41457
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22; 3428.1; 03-FEB-2010 07:28:07; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41457
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3; 1214.3; 03-FEB-2010 20:16:01; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;41465
4; 1474.8; 03-FEB-2010 20:20:22; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;41465
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6; 2388.7; 03-FEB-2010 20:35:35; Bright; 40.5; 17; 78Bet Gem ; 1.16; 4500;occ; 81; 0;41465
7; 3428.3; 03-FEB-2010 20:52:55; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;41465
8; 3603.3; 03-FEB-2010 20:55:50; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;41465
9; 3889.0; 03-FEB-2010 21:00:36; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;41465
10; 4086.1; 03-FEB-2010 21:03:53; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;41465
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12; 4810.1; 03-FEB-2010 21:15:57; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;41465
13; 4938.9; 03-FEB-2010 21:18:06; Bright; 54.5; 126; 60Bet Oph ; 2.77; 4250;occ; 109; 0;41465
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3; -341.2; 03-FEB-2010 21:30:41; Dark ; 47.0; 158; 6Pi Sco ; 2.91; 28000;occ; 94; 0;41465
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14; 1215.1; 04-FEB-2010 02:58:25; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;41469

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 4; -69.3; 04-FEB-2010 22:44:12; Dark ; 43.5; 131; Gam Lup ; 2.80; 26000;occ; 87; 0;41480
 5; 146.9; 04-FEB-2010 22:47:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41481
 6; 300.3; 04-FEB-2010 22:50:22; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;41481
 7; 634.9; 04-FEB-2010 22:55:56; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41481
 8; 943.9; 04-FEB-2010 23:01:05; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41481
 9; 1098.8; 04-FEB-2010 23:03:40; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;41481
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13; 3885.7; 04-FEB-2010 23:50:07; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;41481
14; 4085.6; 04-FEB-2010 23:53:27; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;41481
15; 4814.7; 05-FEB-2010 00:05:36; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;41481
16; 4944.4; 05-FEB-2010 00:07:46; Bright; 48.0; 126; 60Bet Oph ; 2.77; 4250;occ; 96; 0;41481
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 3; -1094.8; 04-FEB-2010 07:21:43; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;41471
 4; -697.0; 04-FEB-2010 07:28:21; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;41471
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 6; -76.9; 04-FEB-2010 07:38:41; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;41471
 7; 140.4; 04-FEB-2010 07:42:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41472
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 9; 723.6; 04-FEB-2010 07:52:02; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41472
10; 838.7; 04-FEB-2010 07:53:57; Dark ; 46.0; 71; Iot Car ; 2.25; 7700;occ; 92; 0;41472
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 3; 3428.4; 04-FEB-2010 08:37:07; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41472
 4; 3601.8; 04-FEB-2010 08:40:00; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;41472
 5; 3887.3; 04-FEB-2010 08:44:45; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;41472
 6; 4085.8; 04-FEB-2010 08:48:04; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41472
 7; 5720.5; 04-FEB-2010 09:15:19; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;41472
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 9; 6177.0; 04-FEB-2010 09:22:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41472
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11; 6759.5; 04-FEB-2010 09:32:38; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;41472
12; 6874.4; 04-FEB-2010 09:34:33; Dark ; 46.0; 71; Iot Car ; 2.25; 7700;occ; 92; 0;41472
13; 6977.9; 04-FEB-2010 09:36:16; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;41472
14; 7132.0; 04-FEB-2010 09:38:50; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;41472
15; 7251.7; 04-FEB-2010 09:40:50; Dark ; 38.0; 70; Zet Pup ; 2.25; 39000;occ; 76; 0;41472
16; 7511.9; 04-FEB-2010 09:45:10; Dark ; 40.0; 132; 15Rho Pup ; 2.80; 6900;occ; 80; 0;41472
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 5; 4085.9; 04-FEB-2010 10:28:40; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;41473
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 7; 4941.7; 04-FEB-2010 10:42:56; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;41473
 8; 5340.6; 04-FEB-2010 10:49:35; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;41473
 9; 5608.6; 04-FEB-2010 10:54:03; Dark ; 61.0; 16; 21Alp Sco ; 1.02; 3000;occ; 122; 0;41473
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13; 6874.7; 04-FEB-2010 11:15:09; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;41473
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 3; 3600.8; 04-FEB-2010 12:01:11; Bright; 56.5; 60; 7Bet UMi ; 2.08; 3950;occ; 113; 0;41474
 4; 3887.1; 04-FEB-2010 12:05:57; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;41474
 5; 4085.6; 04-FEB-2010 12:09:15; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;41474
 6; 4812.6; 04-FEB-2010 12:21:22; Bright; 57.0; 59; 55Alp Oph ; 2.08; 8900;occ; 114; 0;41474
 7; 4941.9; 04-FEB-2010 12:23:32; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;41474
 8; 5340.9; 04-FEB-2010 12:30:11; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;41474
 9; 5609.1; 04-FEB-2010 12:34:39; Dark ; 52.0; 16; 21Alp Sco ; 1.02; 3000;occ; 104; 0;41474
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12; 6332.6; 04-FEB-2010 12:46:42; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;41474
13; 6760.4; 04-FEB-2010 12:53:50; Dark ; 42.0; 159; Ups Car ; 2.92; 7200;occ; 84; 0;41474
14; 6875.3; 04-FEB-2010 12:55:45; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;41474
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5; 4085.8; 04-FEB-2010 13:49:52; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;41475
6; 4813.0; 04-FEB-2010 14:01:59; Bright; 57.0; 59; 55Alp Oph ; 2.08; 8900;occ; 114; 0;41475
7; 4942.3; 04-FEB-2010 14:04:08; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;41475
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13; 6875.5; 04-FEB-2010 14:36:21; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;41475
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3; 3600.7; 04-FEB-2010 15:22:22; Bright; 43.5; 60; 7Bet UMi ; 2.08; 3950;occ; 87; 0;41476
4; 3886.9; 04-FEB-2010 15:27:09; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;41476
5; 4085.8; 04-FEB-2010 15:30:28; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;41476
6; 4813.2; 04-FEB-2010 15:42:35; Bright; 51.5; 59; 55Alp Oph ; 2.08; 8900;occ; 103; 0;41476
7; 4942.9; 04-FEB-2010 15:44:45; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;41476
8; 5341.9; 04-FEB-2010 15:51:24; Dark ; 46.0; 86; 35Eta Oph ; 2.43; 10200;occ; 92; 0;41476
9; 5611.2; 04-FEB-2010 15:55:53; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;41476
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14; 6667.8; 04-FEB-2010 16:13:29; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;41476
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16; 6876.0; 04-FEB-2010 16:16:58; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;41476
17; 6979.2; 04-FEB-2010 16:18:41; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;41476
18; 7133.7; 04-FEB-2010 16:21:15; Dark ; 50.5; 65; Lam Vel ; 2.20; 4400;occ; 101; 0;41476
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5; 3886.9; 04-FEB-2010 17:07:45; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;41477
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9; 5342.5; 04-FEB-2010 17:32:00; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;41477
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11; 5722.4; 04-FEB-2010 17:38:20; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;41477
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16; 6761.6; 04-FEB-2010 17:55:39; Dark ; 36.0; 159; Ups Car ; 2.92; 7200;occ; 72; 0;41477
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2; 1217.1; 04-FEB-2010 18:03:51; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;41478
3; 1994.5; 04-FEB-2010 18:16:48; Dark ; 46.0; 8; 10Alp CMI ; 0.40; 6500;occ; 92; 0;41478
4; 2387.4; 04-FEB-2010 18:23:21; Bright; 40.5; 17; 78Bet Gem ; 1.16; 4500;occ; 81; 0;41478
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7; 4085.7; 04-FEB-2010 18:51:39; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;41478
8; 4943.4; 04-FEB-2010 19:05:57; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;41478
9; 5342.9; 04-FEB-2010 19:12:37; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;41478
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 5; 148.4; 05-FEB-2010 02:09:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41483  
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 13; 2387.3; 05-FEB-2010 04:26:56; Bright; 41.0; 17; 78Bet Gem ; 1.16; 4500;occ; 82; 0;41484  
 14; 3428.8; 05-FEB-2010 04:44:18; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;41484  
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 4; -1219.9; 05-FEB-2010 05:07:25; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;41484  
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 9; 149.8; 05-FEB-2010 05:30:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41485  
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 12; 637.7; 05-FEB-2010 05:38:23; Dark ; 45.5; 99; Del Cen ; 2.58; 26000;occ; 91; 0;41485  
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3; 157.1; 05-FEB-2010 22:16:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41495
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5; 481.2; 05-FEB-2010 22:21:45; Dark ; 47.0; 20; Bet Cru ; 1.25; 30000;occ; 94; 0;41495
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7; 845.8; 05-FEB-2010 22:27:50; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;41495
8; 948.0; 05-FEB-2010 22:29:32; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41495
9; 2386.6; 05-FEB-2010 22:53:31; Bright; 38.0; 17; 78Bet Gem ; 1.16; 4500;occ; 76; 0;41495
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12; 4085.3; 05-FEB-2010 23:21:50; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;41495
13; 4819.6; 05-FEB-2010 23:34:04; Bright; 57.0; 59; 55Alp Oph ; 2.08; 8900;occ; 114; 0;41495
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3; 157.8; 05-FEB-2010 23:56:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41496
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8; 948.0; 06-FEB-2010 00:10:08; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41496
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7; 5348.0; 05-FEB-2010 08:37:29; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;41486
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9; 5725.9; 05-FEB-2010 08:43:47; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;41486
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14; 6593.9; 05-FEB-2010 08:58:15; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;41486
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 2; 576.8; 06-FEB-2010 21:51:44; Dark ; 3.0; 64; Gam Cen ; 2.20; 10600;occ; 6; 0;41509
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 3;-1214.6; 06-FEB-2010 07:57:05; Bright; 58.0; 59; 55Alp Oph ; 2.08; 8900;occ; 116; 0;41500
 4;-1084.0; 06-FEB-2010 07:59:16; Bright; 54.5; 126; 60Bet Oph ; 2.77; 4250;occ; 109; 0;41500
 5; -679.5; 06-FEB-2010 08:06:00; Dark ; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;41500
 6; -537.5; 06-FEB-2010 08:08:22; Dark ; 43.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 87; 0;41500
 7; -405.7; 06-FEB-2010 08:10:34; Dark ; 52.5; 16; 21Alp Sco ; 1.02; 3000;occ; 105; 0;41500
 8; 312.6; 06-FEB-2010 08:22:32; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;41501
 9; 485.0; 06-FEB-2010 08:25:25; Dark ; 43.0; 20; Bet Cru ; 1.25; 30000;occ; 86; 0;41501
 10; 569.9; 06-FEB-2010 08:26:50; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;41501
 11; 846.9; 06-FEB-2010 08:31:27; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;41501
 12; 949.2; 06-FEB-2010 08:33:09; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;41501
 13; 1105.1; 06-FEB-2010 08:35:45; Dark ; 44.5; 65; Lam Vel ; 2.20; 4400;occ; 89; 0;41501
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 2; 3428.8; 06-FEB-2010 09:14:29; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;41501
 3; 3881.6; 06-FEB-2010 09:22:01; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;41501
 4; 4084.9; 06-FEB-2010 09:25:25; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;41501
 5; 4821.8; 06-FEB-2010 09:37:42; Bright; 58.0; 59; 55Alp Oph ; 2.08; 8900;occ; 116; 0;41501
 6; 4951.9; 06-FEB-2010 09:39:52; Bright; 41.5; 126; 60Bet Oph ; 2.77; 4250;occ; 83; 0;41501
 7; 5356.9; 06-FEB-2010 09:46:37; Dark ; 49.0; 86; 35Eta Oph ; 2.43; 10200;occ; 98; 0;41501
 8; 5731.4; 06-FEB-2010 09:52:51; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;41501
 9; 6349.2; 06-FEB-2010 10:03:09; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41501
 10; 6521.4; 06-FEB-2010 10:06:01; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0;41501
 11; 6606.6; 06-FEB-2010 10:07:26; Dark ; 47.5; 64; Gam Cen ; 2.20; 10600;occ; 95; 0;41501
 12; 6883.2; 06-FEB-2010 10:12:03; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;41501
 13; 6986.8; 06-FEB-2010 10:13:47; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;41501
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 3; 3881.3; 06-FEB-2010 11:02:37; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;41502
 4; 4084.6; 06-FEB-2010 11:06:00; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;41502
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8; 5631.9; 06-FEB-2010 11:31:48; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;41502
9; 6198.8; 06-FEB-2010 11:41:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41502
10; 6349.6; 06-FEB-2010 11:43:45; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;41502
11; 6522.1; 06-FEB-2010 11:46:38; Dark ; 43.0; 20; Bet Cru ; 1.25; 30000;occ; 86; 0;41502
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13; 6883.8; 06-FEB-2010 11:52:40; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;41502
14; 6992.5; 06-FEB-2010 11:54:28; Dark ; 35.5; 46; Del Vel ; 1.95; 10600;occ; 71; 0;41502
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3; -1951.4; 06-FEB-2010 12:46:36; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;41503
4; -1213.6; 06-FEB-2010 12:58:54; Bright; 58.0; 59; 55Alp Oph ; 2.08; 8900;occ; 116; 0;41503
5; -1083.1; 06-FEB-2010 13:01:04; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;41503
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7; -536.9; 06-FEB-2010 13:10:11; Dark ; 42.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 85; 0;41503
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9; 163.7; 06-FEB-2010 13:21:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41504
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2; -186.4; 07-FEB-2010 21:07:24; Dark ; 43.0; 147; Alp Ara ; 2.88; 26000;occ; 86; 0;41522
3; -31.3; 07-FEB-2010 21:09:59; Dark ; 44.5; 131; Gam Lup ; 2.80; 26000;occ; 89; 0;41522
4; 177.7; 07-FEB-2010 21:13:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41523
5; 325.9; 07-FEB-2010 21:15:56; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;41523
6; 666.0; 07-FEB-2010 21:21:36; Dark ; 51.0; 99; Del Cen ; 2.58; 26000;occ; 102; 0;41523
7; 2385.3; 07-FEB-2010 21:50:15; Bright; 39.5; 17; 78Bet Gem ; 1.16; 4500;occ; 79; 0;41523
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6; 2385.2; 07-FEB-2010 23:30:51; Bright; 39.5; 17; 78Bet Gem ; 1.16; 4500;occ; 79; 0;41524
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9; 4083.7; 07-FEB-2010 23:59:10; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;41524
10; 4829.5; 08-FEB-2010 00:11:35; Bright; 43.5; 59; 55Alp Oph ; 2.08; 8900;occ; 87; 0;41524
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3; -1078.9; 07-FEB-2010 07:27:44; Bright; 57.0; 126; 60Bet Oph ; 2.77; 4250;occ; 114; 0;41514
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5; -533.0; 07-FEB-2010 07:36:50; Dark ; 45.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 90; 0;41514
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11; 582.1; 07-FEB-2010 07:55:25; Dark ; 56.5; 64; Gam Cen ; 2.20; 10600;occ; 113; 0;41515
12; 851.2; 07-FEB-2010 07:59:54; Dark ; 45.5; 71; Iot Car ; 2.25; 7700;occ; 91; 0;41515
13; 1483.4; 07-FEB-2010 08:10:26; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;41515
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4; 3590.0; 07-FEB-2010 08:45:33; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;41515
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8; 4957.3; 07-FEB-2010 09:08:20; Bright; 44.0; 126; 60Bet Oph ; 2.77; 4250;occ; 88; 0;41515
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13; 6357.6; 07-FEB-2010 09:31:40; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41515
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6; 4957.8; 07-FEB-2010 10:48:56; Bright; 42.5; 126; 60Bet Oph ; 2.77; 4250;occ; 85; 0;41516
7; 5366.5; 07-FEB-2010 10:55:45; Dark ; 46.5; 86; 35Eta Oph ; 2.43; 10200;occ; 93; 0;41516
8; 5503.2; 07-FEB-2010 10:58:02; Dark ; 44.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 89; 0;41516
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7; 4078.6; 12-FEB-2010 16:19:11; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;41591  
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16; 5964.7; 12-FEB-2010 16:50:37; Dark ; 45.5; 141; Bet Ara ; 2.84; 4600;occ; 91; 0;41591  
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9; 5420.0; 12-FEB-2010 18:22:08; Dark ; 52.0; 86; 35Eta Oph ; 2.43; 10200;occ; 104; 0;41592  
10; 5569.1; 12-FEB-2010 18:24:37; Dark ; 43.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 87; 0;41592  
11; 5690.2; 12-FEB-2010 18:26:38; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;41592  
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14; 5965.0; 12-FEB-2010 18:31:13; Dark ; 48.5; 141; Bet Ara ; 2.84; 4600;occ; 97; 0;41592  
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16; 6266.3; 12-FEB-2010 18:36:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41592  
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9; 4735.6; 12-FEB-2010 19:51:20; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;41593  
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11; 5569.7; 12-FEB-2010 20:05:14; Dark ; 44.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 88; 0;41593  
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14; 5877.2; 12-FEB-2010 20:10:21; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;41593  
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19; 4736.1; 13-FEB-2010 02:33:44; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;41597
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21; 4993.0; 13-FEB-2010 02:38:01; Bright; 47.0; 126; 60Bet Oph ; 2.77; 4250;occ; 94; 0;41597
22; 5423.6; 13-FEB-2010 02:45:11; Dark ; 48.0; 86; 35Eta Oph ; 2.43; 10200;occ; 96; 0;41597
23; 5570.8; 13-FEB-2010 02:47:39; Dark ; 42.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 84; 0;41597
24; 5692.7; 13-FEB-2010 02:49:41; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41597
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26; 5966.9; 13-FEB-2010 02:54:15; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;41597
27; 6076.8; 13-FEB-2010 02:56:05; Dark ; 46.5; 131; Gam Lup ; 2.80; 26000;occ; 93; 0;41597
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33; 7169.2; 13-FEB-2010 03:14:17; Dark ; 49.5; 65; Lam Vel ; 2.20; 4400;occ; 99; 0;41597
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2; 2388.1; 15-FEB-2010 10:54:57; Bright; 38.5; 17; 78Bet Gem ; 1.16; 4500;occ; 77; 0;41631  
3; 3556.2; 15-FEB-2010 11:14:25; Bright; 45.0; 60; 7Bet UMi ; 2.08; 3950;occ; 90; 0;41631  
4; 4074.1; 15-FEB-2010 11:23:03; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;41631  
5; 4192.4; 15-FEB-2010 11:25:01; Bright; 34.0; 144; 18Del Cyg ; 2.86; 11000;occ; 68; 0;41631  
6; 4328.6; 15-FEB-2010 11:27:18; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;41631  
7; 4743.6; 15-FEB-2010 11:34:13; Bright; 33.5; 168; 17Zet Aql ; 2.99; 11000;occ; 67; 0;41631  
8; 5010.2; 15-FEB-2010 11:38:39; Dark ; 51.5; 126; 60Bet Oph ; 2.77; 4250;occ; 103; 0;41631  
9; 5451.7; 15-FEB-2010 11:46:01; Dark ; 52.0; 86; 35Eta Oph ; 2.43; 10200;occ; 104; 0;41631  
10; 5583.0; 15-FEB-2010 11:48:12; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;41631  
11; 5711.6; 15-FEB-2010 11:50:21; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;41631  
12; 5788.1; 15-FEB-2010 11:51:37; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;41631  
13; 5893.8; 15-FEB-2010 11:53:23; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;41631  
14; 5980.5; 15-FEB-2010 11:54:50; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;41631  
15; 6111.4; 15-FEB-2010 11:57:00; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;41631  
16; 6215.4; 15-FEB-2010 11:58:44; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;41631  
17; 6296.0; 15-FEB-2010 12:00:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41631  
18; 6429.1; 15-FEB-2010 12:02:18; Dark ; 47.0; 10; Bet Cen ; 0.61; 28000;occ; 94; 0;41631  
19; 6510.3; 15-FEB-2010 12:03:39; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41631  
20; 6613.4; 15-FEB-2010 12:05:22; Dark ; 49.0; 12; Alp1Cru ; 0.77; 30000;occ; 98; 0;41631  
21; 6712.7; 15-FEB-2010 12:07:02; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41631  
22; 6979.2; 15-FEB-2010 12:11:28; Dark ; 38.0; 91; Kap Vel ; 2.49; 26000;occ; 76; 0;41631  
23; 7178.1; 15-FEB-2010 12:14:47; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;41631

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2; 2388.3; 15-FEB-2010 12:35:33; Bright; 40.0; 17; 78Bet Gem ; 1.16; 4500;occ; 80; 0;41632  
3; 3555.9; 15-FEB-2010 12:55:01; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;41632  
4; 4074.1; 15-FEB-2010 13:03:39; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41632  
5; 4192.5; 15-FEB-2010 13:05:37; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;41632  
6; 4328.7; 15-FEB-2010 13:07:54; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;41632  
7; 4744.1; 15-FEB-2010 13:14:49; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;41632  
8; 5010.9; 15-FEB-2010 13:19:16; Dark ; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;41632  
9; 5452.6; 15-FEB-2010 13:26:37; Dark ; 48.0; 86; 35Eta Oph ; 2.43; 10200;occ; 96; 0;41632  
10; 5583.7; 15-FEB-2010 13:28:49; Dark ; 41.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 82; 0;41632  
11; 5712.4; 15-FEB-2010 13:30:57; Dark ; 45.0; 25; 35Lam Sco ; 1.62; 28000;occ; 90; 0;41632  
12; 5788.7; 15-FEB-2010 13:32:14; Dark ; 50.5; 40; The Sco ; 1.86; 7100;occ; 101; 0;41632  
13; 5894.4; 15-FEB-2010 13:33:59; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;41632  
14; 5981.0; 15-FEB-2010 13:35:26; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;41632  
15; 6112.8; 15-FEB-2010 13:37:38; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;41632  
16; 6216.1; 15-FEB-2010 13:39:21; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;41632  
17; 6296.8; 15-FEB-2010 13:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41632  
18; 6429.9; 15-FEB-2010 13:42:55; Dark ; 51.5; 10; Bet Cen ; 0.61; 28000;occ; 103; 0;41632  
19; 6511.0; 15-FEB-2010 13:44:16; Dark ; 44.5; 77; Eps Cen ; 2.30; 28000;occ; 89; 0;41632  
20; 6613.9; 15-FEB-2010 13:45:59; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;41632  
21; 6979.5; 15-FEB-2010 13:52:04; Dark ; 39.0; 91; Kap Vel ; 2.49; 26000;occ; 78; 0;41632  
22; 7178.4; 15-FEB-2010 13:55:23; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;41632

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2; 2388.3; 15-FEB-2010 14:16:09; Bright; 38.5; 17; 78Bet Gem ; 1.16; 4500;occ; 77; 0;41633  
3; 3556.1; 15-FEB-2010 14:35:37; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;41633  
4; 4073.8; 15-FEB-2010 14:44:15; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;41633  
5; 4192.8; 15-FEB-2010 14:46:14; Bright; 33.5; 144; 18Del Cyg ; 2.86; 11000;occ; 67; 0;41633  
6; 4328.9; 15-FEB-2010 14:48:30; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;41633  
7; 4744.1; 15-FEB-2010 14:55:25; Bright; 33.5; 168; 17Zet Aql ; 2.99; 11000;occ; 67; 0;41633  
8; 5453.5; 15-FEB-2010 15:07:14; Dark ; 48.5; 86; 35Eta Oph ; 2.43; 10200;occ; 97; 0;41633  
9; 5583.9; 15-FEB-2010 15:09:25; Dark ; 43.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 86; 0;41633  
10; 5713.1; 15-FEB-2010 15:11:34; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;41633  
11; 5789.2; 15-FEB-2010 15:12:50; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;41633  
12; 5894.8; 15-FEB-2010 15:14:36; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;41633  
13; 5981.5; 15-FEB-2010 15:16:02; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;41633  
14; 6089.0; 15-FEB-2010 15:17:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41633  
15; 6216.5; 15-FEB-2010 15:19:57; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;41633  
16; 6351.4; 15-FEB-2010 15:22:12; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0;41633  
17; 6430.3; 15-FEB-2010 15:23:31; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;41633  
18; 6511.9; 15-FEB-2010 15:24:53; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;41633  
19; 6714.3; 15-FEB-2010 15:28:15; Dark ; 46.0; 64; Gam Cen ; 2.20; 10600;occ; 92; 0;41633  
20; 6959.5; 15-FEB-2010 15:32:20; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;41633  
21; 7178.3; 15-FEB-2010 15:35:59; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;41633

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2; 2388.1; 15-FEB-2010 15:56:45; Bright; 37.5; 17; 78Bet Gem ; 1.16; 4500;occ; 75; 0;41634  
3; 3555.8; 15-FEB-2010 16:16:12; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;41634  
4; 4073.8; 15-FEB-2010 16:24:51; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;41634  
5; 4193.2; 15-FEB-2010 16:26:50; Bright; 36.5; 144; 18Del Cyg ; 2.86; 11000;occ; 73; 0;41634  
6; 4329.0; 15-FEB-2010 16:29:06; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;41634  
7; 4744.7; 15-FEB-2010 16:36:01; Bright; 52.0; 168; 17Zet Aql ; 2.99; 11000;occ; 104; 0;41634  
8; 5012.0; 15-FEB-2010 16:40:29; Dark ; 51.5; 126; 60Bet Oph ; 2.77; 4250;occ; 103; 0;41634  
9; 5454.3; 15-FEB-2010 16:47:51; Dark ; 48.0; 86; 35Eta Oph ; 2.43; 10200;occ; 96; 0;41634  
10; 5584.3; 15-FEB-2010 16:50:01; Dark ; 43.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 87; 0;41634  
11; 5713.5; 15-FEB-2010 16:52:10; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;41634  
12; 5789.8; 15-FEB-2010 16:53:27; Dark ; 47.0; 40; The Sco ; 1.86; 7100;occ; 94; 0;41634  
13; 5895.6; 15-FEB-2010 16:55:12; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;41634  
14; 5981.9; 15-FEB-2010 16:56:39; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;41634  
15; 6089.6; 15-FEB-2010 16:58:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41634  
16; 6217.1; 15-FEB-2010 17:00:34; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;41634  
17; 6352.3; 15-FEB-2010 17:02:49; Dark ; 49.5; 4; Alp1Cen ; -0.01; 5800;occ; 99; 0;41634  
18; 6431.3; 15-FEB-2010 17:04:08; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;41634  
19; 6512.6; 15-FEB-2010 17:05:29; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41634  
20; 6715.1; 15-FEB-2010 17:08:52; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41634  
21; 6960.1; 15-FEB-2010 17:12:57; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;41634

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2; 1739.7; 15-FEB-2010 17:26:32; Dark ; 50.5; 48; 30Alp Hya ; 1.98; 4100;occ; 101; 0;41635

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4; 3555.2; 15-FEB-2010 17:56:48; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;41635
5; 4073.7; 15-FEB-2010 18:05:26; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;41635
6; 4329.0; 15-FEB-2010 18:09:42; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;41635
7; 4744.9; 15-FEB-2010 18:16:38; Bright; 52.0; 168; 17Zet Aql ; 2.99; 11000;occ; 104; 0;41635
8; 5012.5; 15-FEB-2010 18:21:05; Dark ; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;41635
9; 5455.1; 15-FEB-2010 18:28:28; Dark ; 48.0; 86; 35Eta Oph ; 2.43; 10200;occ; 96; 0;41635
10; 5584.6; 15-FEB-2010 18:30:37; Dark ; 43.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 87; 0;41635
11; 5714.2; 15-FEB-2010 18:32:47; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;41635
12; 5790.2; 15-FEB-2010 18:34:03; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;41635
13; 5895.8; 15-FEB-2010 18:35:48; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;41635
14; 5982.2; 15-FEB-2010 18:37:15; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;41635
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2; 1740.4; 16-FEB-2010 20:16:08; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;41651
3; 3550.3; 16-FEB-2010 20:46:18; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;41651
4; 4071.6; 16-FEB-2010 20:54:59; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;41651
5; 4330.4; 16-FEB-2010 20:59:18; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41651
6; 5021.1; 16-FEB-2010 21:10:49; Dark ; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;41651
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2; 62.0; 16-FEB-2010 21:28:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41652
3; 326.1; 16-FEB-2010 21:33:09; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;41652
4; 405.3; 16-FEB-2010 21:34:29; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;41652
5; 489.9; 16-FEB-2010 21:35:53; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;41652
6; 587.3; 16-FEB-2010 21:37:31; Dark ; 48.0; 12; Alp1Cru ; 0.77; 30000;occ; 96; 0;41652
7; 691.9; 16-FEB-2010 21:39:15; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;41652
8; 931.5; 16-FEB-2010 21:43:15; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;41652
9; 1740.3; 16-FEB-2010 21:56:44; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;41652
10; 3549.9; 16-FEB-2010 22:26:53; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;41652
11; 4071.8; 16-FEB-2010 22:35:35; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;41652
12; 4330.5; 16-FEB-2010 22:39:54; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;41652
13; 5021.8; 16-FEB-2010 22:51:25; Dark ; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;41652
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2; 62.5; 16-FEB-2010 23:09:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41653
3; 326.9; 16-FEB-2010 23:13:46; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41653
4; 406.0; 16-FEB-2010 23:15:05; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;41653
5; 490.5; 16-FEB-2010 23:16:30; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41653
6; 587.8; 16-FEB-2010 23:18:07; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;41653
7; 692.8; 16-FEB-2010 23:19:52; Dark ; 52.5; 64; Gam Cen ; 2.20; 10600;occ; 105; 0;41653
8; 931.9; 16-FEB-2010 23:23:51; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;41653
9; 1740.2; 16-FEB-2010 23:37:19; Dark ; 50.5; 48; 30Alp Hya ; 1.98; 4100;occ; 101; 0;41653
10; 3549.6; 17-FEB-2010 00:07:29; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;41653
11; 4071.6; 17-FEB-2010 00:16:11; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41653
12; 4330.6; 17-FEB-2010 00:20:30; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41653
13; 5022.3; 17-FEB-2010 00:32:01; Dark ; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;41653
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2; -1021.7; 16-FEB-2010 01:03:31; Dark ; 50.5; 126; 60Bet Oph ; 2.77; 4250;occ; 101; 0;41639
3; -577.5; 16-FEB-2010 01:10:55; Dark ; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;41639
4; -319.5; 16-FEB-2010 01:15:13; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;41639
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2; 323.3; 16-FEB-2010 11:29:31; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;41646
3; 402.5; 16-FEB-2010 11:30:50; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41646
4; 485.8; 16-FEB-2010 11:32:14; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41646
5; 585.2; 16-FEB-2010 11:33:53; Dark ; 51.5; 12; Alp1Cru ; 0.77; 30000;occ; 103; 0;41646
6; 688.2; 16-FEB-2010 11:35:36; Dark ; 51.5; 64; Gam Cen ; 2.20; 10600;occ; 103; 0;41646
7; 929.9; 16-FEB-2010 11:39:38; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;41646
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2; 3551.9; 16-FEB-2010 12:23:20; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;41646
3; 4072.4; 16-FEB-2010 12:32:00; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;41646
4; 4329.9; 16-FEB-2010 12:36:18; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;41646
5; 5018.7; 16-FEB-2010 12:47:46; Dark ; 51.5; 126; 60Bet Oph ; 2.77; 4250;occ; 103; 0;41646

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4; 4067.6; 18-FEB-2010 21:32:17; Bright; 60.5; 130; 23Bet Dra ; 2.80; 5800;occ; 121; 0;41680
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6; 512.0; 18-FEB-2010 22:13:37; Dark ; 45.0; 77; Eps Cen ; 2.30; 28000;occ; 90; 0;41681
7; 601.1; 18-FEB-2010 22:15:06; Dark ; 48.5; 12; Alp1Cru ; 0.77; 30000;occ; 97; 0;41681
8; 713.8; 18-FEB-2010 22:16:59; Dark ; 50.5; 64; Gam Cen ; 2.20; 10600;occ; 101; 0;41681
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5; 423.9; 18-FEB-2010 23:52:45; Dark ; 45.0; 10; Bet Cen ; 0.61; 28000;occ; 90; 0;41682
6; 512.8; 18-FEB-2010 23:54:14; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41682
7; 601.7; 18-FEB-2010 23:55:43; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;41682
8; 714.5; 18-FEB-2010 23:57:36; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;41682
9; 944.5; 19-FEB-2010 00:01:26; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;41682
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12; 4067.3; 19-FEB-2010 00:53:29; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;41682
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5; 71.7; 18-FEB-2010 07:00:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41672
6; 338.5; 18-FEB-2010 07:05:21; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;41672
7; 418.0; 18-FEB-2010 07:06:40; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41672
8; 505.3; 18-FEB-2010 07:08:07; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;41672
9; 597.0; 18-FEB-2010 07:09:39; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;41672
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4; 4332.4; 18-FEB-2010 08:11:54; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41672
5; 5736.7; 18-FEB-2010 08:35:19; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;41672
6; 5819.3; 18-FEB-2010 08:36:41; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;41672
7; 6374.8; 18-FEB-2010 08:45:57; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;41672
8; 6454.5; 18-FEB-2010 08:47:17; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;41672
9; 6541.9; 18-FEB-2010 08:48:44; Dark ; 44.5; 77; Eps Cen ; 2.30; 28000;occ; 89; 0;41672
10; 6633.5; 18-FEB-2010 08:50:16; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;41672
11; 6743.9; 18-FEB-2010 08:52:06; Dark ; 53.0; 64; Gam Cen ; 2.20; 10600;occ; 106; 0;41672
12; 6976.6; 18-FEB-2010 08:55:59; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;41672
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3; 4068.8; 18-FEB-2010 09:48:07; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;41673
4; 4332.3; 18-FEB-2010 09:52:30; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;41673
5; 5737.5; 18-FEB-2010 10:15:55; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;41673
6; 5820.1; 18-FEB-2010 10:17:18; Dark ; 46.5; 75; 26Eps Sco ; 2.29; 4250;occ; 93; 0;41673
7; 6108.6; 18-FEB-2010 10:22:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41673
8; 6375.7; 18-FEB-2010 10:26:34; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;41673
9; 6455.1; 18-FEB-2010 10:27:53; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;41673
10; 6542.6; 18-FEB-2010 10:29:21; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;41673
11; 6634.1; 18-FEB-2010 10:30:52; Dark ; 47.5; 12; Alp1Cru ; 0.77; 30000;occ; 95; 0;41673
12; 6744.7; 18-FEB-2010 10:32:43; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41673
13; 6977.0; 18-FEB-2010 10:36:35; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;41673
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3; 4068.4; 18-FEB-2010 11:28:42; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41674
4; 4332.2; 18-FEB-2010 11:33:06; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41674

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6; 5820.9; 18-FEB-2010 11:57:55; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;41674
7; 6109.0; 18-FEB-2010 12:02:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41674
8; 6376.3; 18-FEB-2010 12:07:10; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;41674
9; 6455.5; 18-FEB-2010 12:08:29; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;41674
10; 6543.3; 18-FEB-2010 12:09:57; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;41674
11; 6634.4; 18-FEB-2010 12:11:28; Dark ; 46.5; 12; Alp1Cru ; 0.77; 30000;occ; 93; 0;41674
12; 6745.4; 18-FEB-2010 12:13:19; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41674
13; 6977.6; 18-FEB-2010 12:17:11; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;41674
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3; 4068.4; 18-FEB-2010 13:09:18; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;41675
4; 4332.3; 18-FEB-2010 13:13:42; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;41675
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6; 5821.9; 18-FEB-2010 13:38:32; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;41675
7; 6109.6; 18-FEB-2010 13:43:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41675
8; 6376.8; 18-FEB-2010 13:47:47; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;41675
9; 6456.2; 18-FEB-2010 13:49:06; Dark ; 51.5; 10; Bet Cen ; 0.61; 28000;occ; 103; 0;41675
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12; 6746.3; 18-FEB-2010 13:53:56; Dark ; 47.5; 64; Gam Cen ; 2.20; 10600;occ; 95; 0;41675
13; 6978.1; 18-FEB-2010 13:57:48; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;41675
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3; 4068.4; 18-FEB-2010 14:49:54; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;41676
4; 4332.6; 18-FEB-2010 14:54:18; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;41676
5; 5739.4; 18-FEB-2010 15:17:45; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;41676
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8; 6377.4; 18-FEB-2010 15:28:23; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41676
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3; 4068.3; 18-FEB-2010 16:30:30; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41677
4; 4332.7; 18-FEB-2010 16:34:54; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;41677
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6; 5823.6; 18-FEB-2010 16:59:45; Dark ; 50.0; 75; 26Eps Sco ; 2.29; 4250;occ; 100; 0;41677
7; 6111.3; 18-FEB-2010 17:04:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41677
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3; 4067.8; 18-FEB-2010 18:11:05; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;41678
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6; 713.3; 18-FEB-2010 20:36:23; Dark ; 52.5; 64; Gam Cen ; 2.20; 10600;occ; 105; 0;41680
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9; 944.8; 19-FEB-2010 01:42:02; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;41683
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13; 4333.0; 19-FEB-2010 02:38:30; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;41683
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4; 3536.8; 19-FEB-2010 20:51:49; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;41694
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4; -196.7; 19-FEB-2010 21:30:12; Dark ; 55.5; 75; 26Eps Sco ; 2.29; 4250;occ; 111; 0;41694
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6; 84.1; 19-FEB-2010 21:34:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41695
7; 352.1; 19-FEB-2010 21:39:21; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41695
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13; 3431.4; 19-FEB-2010 22:30:40; Bright; 52.0; 49; 1Alp UMi ; 1.99; 6300;occ; 104; 0;41695
14; 3536.2; 19-FEB-2010 22:32:25; Bright; 45.0; 60; 7Bet UMi ; 2.08; 3950;occ; 90; 0;41695
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5; 79.4; 19-FEB-2010 06:29:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41686
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11; 946.2; 19-FEB-2010 06:43:51; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;41686
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5; 4756.9; 19-FEB-2010 07:47:22; Bright; 35.5; 168; 17Zet Aql ; 2.99; 11000;occ; 71; 0;41686
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4; 4333.0; 19-FEB-2010 09:20:54; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;41687
5; 4757.5; 19-FEB-2010 09:27:59; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;41687
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7; 5832.7; 19-FEB-2010 09:45:54; Dark ; 61.0; 75; 26Eps Sco ; 2.29; 4250;occ; 122; 0;41687
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13; 6754.8; 19-FEB-2010 10:01:16; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41687
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3; 4066.4; 19-FEB-2010 10:57:03; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;41688
4; 4333.4; 19-FEB-2010 11:01:30; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41688
5; 4757.1; 19-FEB-2010 11:08:34; Bright; 53.0; 168; 17Zet Aql ; 2.99; 11000;occ; 106; 0;41688
6; 5746.8; 19-FEB-2010 11:25:04; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;41688
7; 5833.5; 19-FEB-2010 11:26:30; Dark ; 56.0; 75; 26Eps Sco ; 2.29; 4250;occ; 112; 0;41688
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9; 6384.6; 19-FEB-2010 11:35:42; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41688
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11; 6554.2; 19-FEB-2010 11:38:31; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41688
12; 6640.9; 19-FEB-2010 11:39:58; Dark ; 38.0; 12; Alp1Cru ; 0.77; 30000;occ; 76; 0;41688
13; 6755.6; 19-FEB-2010 11:41:53; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41688
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5; 4757.7; 19-FEB-2010 12:49:10; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;41689
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7; 5834.7; 19-FEB-2010 13:07:07; Dark ; 55.5; 75; 26Eps Sco ; 2.29; 4250;occ; 111; 0;41689
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9; 6385.2; 19-FEB-2010 13:16:18; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;41689
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13; 6983.7; 19-FEB-2010 13:26:17; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;41689
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 5; 4757.9; 19-FEB-2010 14:29:47; Bright; 35.5; 168; 17Zet Aql ; 2.99; 11000;occ; 71; 0;41690  
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 5; 4758.3; 19-FEB-2010 16:10:23; Bright; 52.5; 168; 17Zet Aql ; 2.99; 11000;occ; 105; 0;41691  
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 9; 6244.5; 19-FEB-2010 16:35:09; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;41691  
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 17; 6643.0; 19-FEB-2010 18:22:24; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;41692  
 18; 6758.6; 19-FEB-2010 18:24:19; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41692  
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 6; 4333.6; 19-FEB-2010 19:24:30; Bright; 43.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 86; 0;41693  
 7; 4758.7; 19-FEB-2010 19:31:35; Bright; 54.0; 168; 17Zet Aql ; 2.99; 11000;occ; 108; 0;41693  
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 9; 5436.4; 19-FEB-2010 19:42:53; Dark ; 40.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 80; 0;41693  
 10; 5750.4; 19-FEB-2010 19:48:07; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;41693  
 11; 5838.3; 19-FEB-2010 19:49:35; Dark ; 57.5; 75; 26Eps Sco ; 2.29; 4250;occ; 115; 0;41693  
 12; 6007.5; 19-FEB-2010 19:52:24; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;41693  
 13; 6119.5; 19-FEB-2010 19:54:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41693  
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 16; 6643.2; 19-FEB-2010 20:03:00; Dark ; 54.0; 12; Alp1Cru ; 0.77; 30000;occ; 108; 0;41693  
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3; 3534.1; 20-FEB-2010 10:16:34; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;41702
4; 4092.5; 20-FEB-2010 10:25:52; Bright; 38.0; 69; 33Gam Dra ; 2.23; 3800;occ; 76; 0;41702
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6; 4760.8; 20-FEB-2010 10:37:01; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;41702
7; 5756.1; 20-FEB-2010 10:53:36; Dark ; 45.0; 25; 35Lam Sco ; 1.62; 28000;occ; 90; 0;41702
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4; 4092.4; 20-FEB-2010 12:06:28; Bright; 42.5; 69; 33Gam Dra ; 2.23; 3800;occ; 85; 0;41703
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3; 3102.8; 22-FEB-2010 20:50:20; Bright; 42.0; 36; 50Alp UMa ; 1.80; 6300;occ; 84; 0;41737
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6; 4336.9; 22-FEB-2010 21:10:54; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;41737
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9; 3102.1; 22-FEB-2010 22:30:55; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;41738
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12; 4336.8; 22-FEB-2010 22:51:30; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;41738
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3; 107.5; 22-FEB-2010 23:21:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41739
4; 458.7; 22-FEB-2010 23:27:28; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;41739
5; 754.9; 22-FEB-2010 23:32:24; Dark ; 50.0; 64; Gam Cen ; 2.20; 10600;occ; 100; 0;41739
6; 967.3; 22-FEB-2010 23:35:57; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;41739
7; 1745.3; 22-FEB-2010 23:48:55; Dark ; 47.0; 48; 30Alp Hya ; 1.98; 4100;occ; 94; 0;41739
8; 2344.2; 22-FEB-2010 23:58:53; Bright; 41.5; 166; 17Eps Leo ; 2.98; 6000;occ; 83; 0;41739
9; 3101.8; 23-FEB-2010 00:11:31; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;41739
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3; 3105.2; 22-FEB-2010 12:27:23; Bright; 42.0; 36; 50Alp UMa ; 1.80; 6300;occ; 84; 0;41732
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6; 4336.5; 22-FEB-2010 12:47:54; Bright; 46.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 93; 0;41732
7; 4769.1; 22-FEB-2010 12:55:07; Bright; 35.5; 168; 17Zet Aql ; 2.99; 11000;occ; 71; 0;41732
8; 5776.7; 22-FEB-2010 13:11:54; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;41732
9; 5875.6; 22-FEB-2010 13:13:33; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;41732
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6; 4336.4; 22-FEB-2010 14:28:30; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;41733
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14; 487.8; 26-FEB-2010 07:56:42; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;41787  
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8; 3791.9; 26-FEB-2010 08:51:46; Bright; 47.0; 119; 14Eta Dra ; 2.73; 4700;occ; 94; 0;41787  
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12; 4784.7; 26-FEB-2010 09:08:19; Bright; 37.0; 168; 17Zet Aql ; 2.99; 11000;occ; 74; 0;41787  
13; 5113.7; 26-FEB-2010 09:13:48; Dark ; 61.5; 126; 60Bet Oph ; 2.77; 4250;occ; 123; 0;41787  
14; 5513.4; 26-FEB-2010 09:20:28; Dark ; 45.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 91; 0;41787  
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16; 5818.0; 26-FEB-2010 09:25:32; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;41787  
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4; 2845.0; 26-FEB-2010 11:57:11; Bright; 46.0; 174; 52Psi UMa ; 3.00; 4400;occ; 92; 0;41789  
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9; 4047.2; 26-FEB-2010 12:17:13; Bright; 45.5; 130; 23Bet Dra ; 2.80; 5800;occ; 91; 0;41789  
10; 4209.2; 26-FEB-2010 12:19:55; Bright; 35.5; 144; 18Del Cyg ; 2.86; 11000;occ; 71; 0;41789  
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12; 4785.3; 26-FEB-2010 12:29:31; Bright; 56.0; 168; 17Zet Aql ; 2.99; 11000;occ; 112; 0;41789  
13; 5115.5; 26-FEB-2010 12:35:02; Dark ; 60.5; 126; 60Bet Oph ; 2.77; 4250;occ; 121; 0;41789  
14; 5514.5; 26-FEB-2010 12:41:41; Dark ; 46.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 92; 0;41789  
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21; 6525.2; 26-FEB-2010 12:58:31; Dark ; 40.0; 10; Bet Cen ; 0.61; 28000;occ; 80; 0;41789  
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4; 2844.4; 26-FEB-2010 13:37:46; Bright; 48.5; 174; 52Psi UMa ; 3.00; 4400;occ; 97; 0;41790

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7; 3505.3; 26-FEB-2010 13:48:47; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;41790
8; 3790.8; 26-FEB-2010 13:53:33; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;41790
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19; 6288.5; 26-FEB-2010 14:35:10; Dark ; 49.5; 131; Gam Lup ; 2.80; 26000;occ; 99; 0;41790
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4; 2843.7; 26-FEB-2010 15:18:21; Bright; 68.0; 174; 52Psi UMa ; 3.00; 4400;occ; 136; 0;41791
5; 3001.1; 26-FEB-2010 15:20:59; Bright; 41.5; 82; 48Bet UMA ; 2.37; 10600;occ; 83; 0;41791
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6; 3087.7; 26-FEB-2010 17:03:02; Bright; 43.0; 87; 64Gam UMA ; 2.43; 11000;occ; 86; 0;41792
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 7; 3784.3; 27-FEB-2010 16:43:01; Bright; 47.0; 119; 14Eta Dra ; 2.73; 4700;occ; 94; 0;41806  
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 9; 4210.9; 27-FEB-2010 16:50:08; Bright; 37.0; 144; 18Del Cyg ; 2.86; 11000;occ; 74; 0;41806  
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 13; 5667.4; 27-FEB-2010 17:14:24; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;41806  
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 15; 5953.5; 27-FEB-2010 17:19:10; Dark ; 57.0; 75; 26Eps Sco ; 2.29; 4250;occ; 114; 0;41806  
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 3; 2832.4; 27-FEB-2010 18:07:45; Bright; 47.0; 174; 52Psi UMa ; 3.00; 4400;occ; 94; 0;41807  
 4; 2992.9; 27-FEB-2010 18:10:26; Bright; 61.0; 82; 48Bet UMa ; 2.37; 10600;occ; 122; 0;41807  
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 7; 3783.9; 27-FEB-2010 18:23:37; Bright; 47.5; 119; 14Eta Dra ; 2.73; 4700;occ; 95; 0;41807  
 8; 4043.1; 27-FEB-2010 18:27:56; Bright; 46.0; 130; 23Bet Dra ; 2.80; 5800;occ; 92; 0;41807  
 9; 4210.8; 27-FEB-2010 18:30:44; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;41807  
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 12; 5525.4; 27-FEB-2010 18:52:38; Dark ; 46.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 92; 0;41807  
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 15; 5954.7; 27-FEB-2010 18:59:48; Dark ; 55.5; 75; 26Eps Sco ; 2.29; 4250;occ; 111; 0;41807  
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 17; 6308.2; 27-FEB-2010 19:05:41; Dark ; 51.0; 131; Gam Lup ; 2.80; 26000;occ; 102; 0;41807  
 18; 6456.7; 27-FEB-2010 19:08:10; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;41807  
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 21; 6754.3; 27-FEB-2010 19:13:07; Dark ; 46.5; 26; Gam Cru ; 1.62; 2900;occ; 93; 0;41807

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3; 2831.7; 27-FEB-2010 19:48:21; Bright; 46.0; 174; 52Psi UMa ; 3.00; 4400;occ; 92; 0;41808
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9; 4210.7; 27-FEB-2010 20:11:20; Bright; 53.0; 144; 18Del Cyg ; 2.86; 11000;occ; 106; 0;41808
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13; 5668.6; 27-FEB-2010 20:35:38; Dark ; 49.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 99; 0;41808
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11; 2286.9; 28-FEB-2010 02:21:39; Bright; 45.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 91; 0;41812
12; 2828.8; 28-FEB-2010 02:30:41; Bright; 46.0; 174; 52Psi UMa ; 3.00; 4400;occ; 92; 0;41812
13; 3497.8; 28-FEB-2010 02:41:50; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;41812
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5;-1243.3; 28-FEB-2010 04:44:01; Bright; 57.0; 168; 17Zet Aql ; 2.99; 11000;occ; 114; 0;41813
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| 10;   | -13.9;   | 28-FEB-2010 | 05:04:31; | Dark ;  | 59.0; | 0;   |           |  | 0.00;  | 0;occ;     | 118; | 0;41813 |
| 11;   | 279.6;   | 28-FEB-2010 | 05:09:24; | Dark ;  | 47.5; | 131; | Gam Lup   |  | 2.80;  | 26000;occ; | 95;  | 0;41814 |
| 12;   | 424.3;   | 28-FEB-2010 | 05:11:49; | Dark ;  | 45.0; | 4;   | Alp1Cen   |  | -0.01; | 5800;occ;  | 90;  | 0;41814 |
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| 19;   | 2827.4;  | 28-FEB-2010 | 05:51:52; | Bright; | 49.0; | 174; | 52Psi UMa |  | 3.00;  | 4400;occ;  | 98;  | 0;41814 |
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| 21;   | 3497.3;  | 28-FEB-2010 | 06:03:02; | Bright; | 46.0; | 60;  | 7Bet UMi  |  | 2.08;  | 3950;occ;  | 92;  | 0;41814 |
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| 7;  | 4039.0;  | 28-FEB-2010 | 21:17:27; | Bright; | 42.0; | 130; | 23Bet Dra |  | 2.80;  | 5800;occ;  | 84;  | 0;41823 |
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| 9;  | 4341.3;  | 28-FEB-2010 | 21:22:29; | Bright; | 40.0; | 5;   | 3Alp Lyr  |  | 0.03;  | 11000;occ; | 80;  | 0;41823 |
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| 5;  | 291.6;   | 28-FEB-2010 | 21:55:35; | Dark ;  | 50.0; | 131; | Gam Lup   |  | 2.80;  | 26000;occ; | 100; | 0;41824 |
| 6;  | 430.3;   | 28-FEB-2010 | 21:57:54; | Dark ;  | 45.0; | 4;   | Alp1Cen   |  | -0.01; | 5800;occ;  | 90;  | 0;41824 |
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| 8;  | 616.5;   | 28-FEB-2010 | 22:01:00; | Dark ;  | 43.5; | 77;  | Eps Cen   |  | 2.30;  | 28000;occ; | 87;  | 0;41824 |
| 9;  | 726.4;   | 28-FEB-2010 | 22:02:50; | Dark ;  | 51.5; | 26;  | Gam Cru   |  | 1.62;  | 2900;occ;  | 103; | 0;41824 |
| 10;   | 810.3;   | 28-FEB-2010 | 22:04:14; | Dark ;  | 44.5; | 64;  | Gam Cen   |  | 2.20;  | 10600;occ; | 89;  | 0;41824 |
| 11;   | 2124.6;  | 28-FEB-2010 | 22:26:08; | Bright; | 44.5; | 22;  | 32Alp Leo |  | 1.36;  | 15200;occ; | 89;  | 0;41824 |
| 12;   | 2282.9;  | 28-FEB-2010 | 22:28:47; | Bright; | 44.5; | 51;  | 41Gam1Leo |  | 2.01;  | 4500;occ;  | 89;  | 0;41824 |
| 13;   | 2820.7;  | 28-FEB-2010 | 22:37:45; | Bright; | 44.0; | 174; | 52Psi UMa |  | 3.00;  | 4400;occ;  | 88;  | 0;41824 |
| 14;   | 2984.5;  | 28-FEB-2010 | 22:40:28; | Bright; | 41.0; | 82;  | 48Bet UMa |  | 2.37;  | 10600;occ; | 82;  | 0;41824 |
| 15;   | 3064.0;  | 28-FEB-2010 | 22:41:48; | Bright; | 40.5; | 36;  | 50Alp UMa |  | 1.80;  | 6300;occ;  | 81;  | 0;41824 |
| 16;   | 3493.5;  | 28-FEB-2010 | 22:48:57; | Bright; | 38.5; | 60;  | 7Bet UMi  |  | 2.08;  | 3950;occ;  | 76;  | 0;41824 |
| 17;   | 3776.1;  | 28-FEB-2010 | 22:53:40; | Bright; | 41.5; | 119; | 14Eta Dra |  | 2.73;  | 4700;occ;  | 83;  | 0;41824 |
| 18;   | 4038.6;  | 28-FEB-2010 | 22:58:02; | Bright; | 46.0; | 130; | 23Bet Dra |  | 2.80;  | 5800;occ;  | 92;  | 0;41824 |
| 19;   | 4211.8;  | 28-FEB-2010 | 23:00:56; | Bright; | 35.0; | 144; | 18Del Cyg |  | 2.86;  | 11000;occ; | 70;  | 0;41824 |
| 20;   | 4341.5;  | 28-FEB-2010 | 23:03:05; | Bright; | 39.0; | 5;   | 3Alp Lyr  |  | 0.03;  | 11000;occ; | 78;  | 0;41824 |
| 21;   | 4796.5;  | 28-FEB-2010 | 23:10:40; | Bright; | 38.5; | 168; | 17Zet Aql |  | 2.99;  | 11000;occ; | 77;  | 0;41824 |
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| 8;  | -196.4;  | 28-FEB-2010 | 06:42:04; | Dark ;  | 47.5; | 25;  | 35Lam Sco |  | 1.62;  | 28000;occ; | 95;  | 0;41814 |
| 9;  | -12.9;   | 28-FEB-2010 | 06:45:08; | Dark ;  | 59.5; | 0;   |           |  | 0.00;  | 0;occ;     | 119; | 0;41814 |
| 10;   | 280.7;   | 28-FEB-2010 | 06:50:01; | Dark ;  | 49.5; | 131; | Gam Lup   |  | 2.80;  | 26000;occ; | 99;  | 0;41815 |
| 11;   | 425.1;   | 28-FEB-2010 | 06:52:26; | Dark ;  | 46.0; | 4;   | Alp1Cen   |  | -0.01; | 5800;occ;  | 92;  | 0;41815 |
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| 13;   | 610.2;   | 28-FEB-2010 | 06:55:31; | Dark ;  | 43.5; | 77;  | Eps Cen   |  | 2.30;  | 28000;occ; | 87;  | 0;41815 |
| 14;   | 721.6;   | 28-FEB-2010 | 06:57:22; | Dark ;  | 45.0; | 26;  | Gam Cru   |  | 1.62;  | 2900;occ;  | 90;  | 0;41815 |
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| 2;  | 2285.9;  | 28-FEB-2010 | 07:23:26; | Bright; | 45.0; | 51;  | 41Gam1Leo |  | 2.01;  | 4500;occ;  | 90;  | 0;41815 |
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9; 4341.1; 28-FEB-2010 07:57:42; Bright; 45.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 90; 0;41815
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9; 4341.0; 28-FEB-2010 09:38:17; Bright; 43.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 86; 0;41816
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18; 6650.6; 28-FEB-2010 16:59:11; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41820
19; 6760.8; 28-FEB-2010 17:01:01; Dark ; 55.5; 26; Gam Cru ; 1.62; 2900;occ; 111; 0;41820
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