

GOMOS Daily Report 11-JAN-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 | 15JAN2010 04:56:36 |
| Data source version | GOMOS/5.00L04 |
| Start time of products | 11JAN2010 20:37:24 |
| Stop time of products | 11JAN2010 23:58:37 |
| Store outputs in DB | Yes |
| Nb of level 1b prods | 44 |
| Nb of prods with errors | 0 |

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

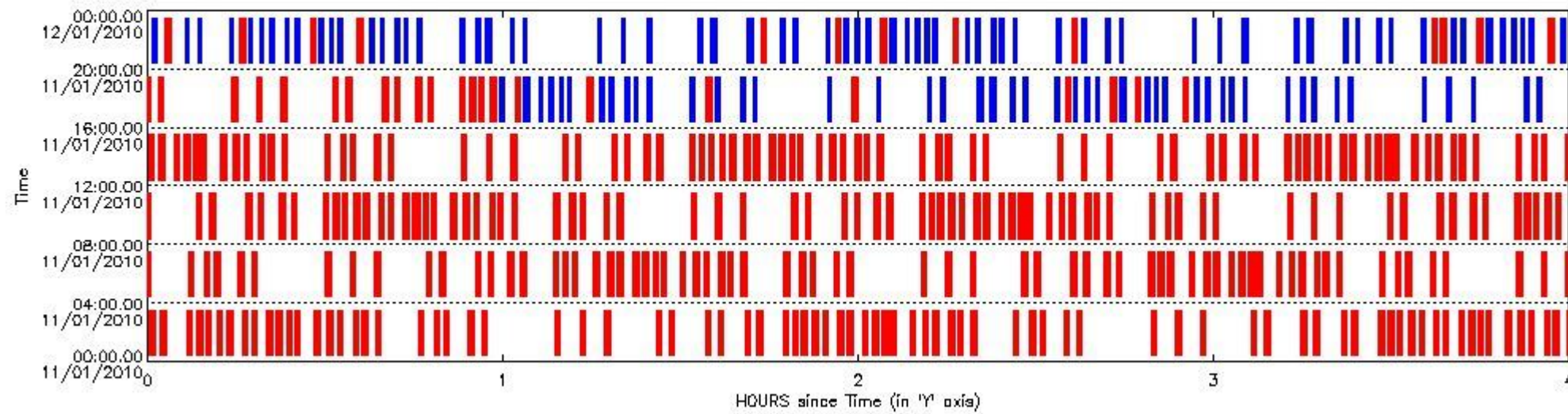
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

| UTC start time | Star name | Star ID | Orbit |
|----------------------|-----------|---------|-------|
| 11-JAN-2010 00:00:16 | 8Bet1Sco | 97 | 41123 |
| 11-JAN-2010 00:02:01 | 9Alp2Lib | 122 | 41123 |
| 11-JAN-2010 00:06:37 | GamLup | 131 | 41123 |
| 11-JAN-2010 00:08:14 | BetLup | 109 | 41123 |
| 11-JAN-2010 00:09:44 | AlpLup | 78 | 41123 |
| 11-JAN-2010 00:11:36 | ZetCen | 95 | 41123 |
| 11-JAN-2010 00:13:24 | BetCen | 10 | 41124 |
| 11-JAN-2010 00:15:51 | BetCru | 20 | 41124 |
| 11-JAN-2010 00:17:26 | DSA1053 | 0 | 41124 |
| 11-JAN-2010 00:20:05 | TheCar | 124 | 41124 |
| 11-JAN-2010 00:21:41 | MuVel | 113 | 41124 |
| 11-JAN-2010 00:23:25 | lotCar | 71 | 41124 |
| 11-JAN-2010 00:24:46 | EpsCar | 41 | 41124 |
| 11-JAN-2010 00:28:04 | Gam2Vel | 34 | 41124 |
| 11-JAN-2010 00:30:14 | ZetPup | 70 | 41124 |

| | | | |
|----------------------|-----------|-----|-------|
| 11-JAN-2010 00:32:01 | PiPup | 117 | 41124 |
| 11-JAN-2010 00:34:38 | 21EpsCMa | 23 | 41124 |
| 11-JAN-2010 00:36:05 | 24Omi2CMa | 179 | 41124 |
| 11-JAN-2010 00:38:22 | 9AlpCMa | 1 | 41124 |
| 11-JAN-2010 00:45:35 | 58AlpOri | 14 | 41124 |
| 11-JAN-2010 00:48:17 | 24GamGem | 44 | 41124 |
| 11-JAN-2010 00:49:59 | 13MuGem | 151 | 41124 |
| 11-JAN-2010 00:54:05 | 37TheAur | 107 | 41124 |
| 11-JAN-2010 00:56:18 | 34BetAur | 42 | 41124 |
| 11-JAN-2010 01:08:46 | 1AlpUMi | 49 | 41124 |
| 11-JAN-2010 01:12:55 | 7BetUMi | 60 | 41124 |
| 11-JAN-2010 01:17:06 | 14EtaDra | 119 | 41124 |
| 11-JAN-2010 01:25:46 | 40ZetHer | 133 | 41124 |
| 11-JAN-2010 01:27:56 | 5AlpCrB | 67 | 41124 |
| 11-JAN-2010 01:34:03 | 24AlpSer | 102 | 41124 |
| 11-JAN-2010 01:36:15 | 1DelOph | 120 | 41124 |
| 11-JAN-2010 01:40:52 | 8Bet1Sco | 97 | 41124 |
| 11-JAN-2010 01:42:38 | 9Alp2Lib | 122 | 41124 |
| 11-JAN-2010 01:47:13 | GamLup | 131 | 41124 |
| 11-JAN-2010 01:48:50 | BetLup | 109 | 41124 |
| 11-JAN-2010 01:50:21 | AlpLup | 78 | 41124 |
| 11-JAN-2010 01:52:13 | ZetCen | 95 | 41124 |
| 11-JAN-2010 01:54:01 | BetCen | 10 | 41125 |
| 11-JAN-2010 01:56:28 | BetCru | 20 | 41125 |
| 11-JAN-2010 01:58:03 | DSA1053 | 0 | 41125 |
| 11-JAN-2010 02:00:42 | TheCar | 124 | 41125 |
| 11-JAN-2010 02:02:18 | MuVel | 113 | 41125 |
| 11-JAN-2010 02:04:01 | lotCar | 71 | 41125 |
| 11-JAN-2010 02:05:23 | EpsCar | 41 | 41125 |
| 11-JAN-2010 02:08:41 | Gam2Vel | 34 | 41125 |
| 11-JAN-2010 02:10:50 | ZetPup | 70 | 41125 |
| 11-JAN-2010 02:12:37 | PiPup | 117 | 41125 |
| 11-JAN-2010 02:15:14 | 21EpsCMa | 23 | 41125 |
| 11-JAN-2010 02:16:41 | 24Omi2CMa | 179 | 41125 |
| 11-JAN-2010 02:18:58 | 9AlpCMa | 1 | 41125 |
| 11-JAN-2010 02:26:11 | 58AlpOri | 14 | 41125 |
| 11-JAN-2010 02:28:53 | 24GamGem | 44 | 41125 |
| 11-JAN-2010 02:30:35 | 13MuGem | 151 | 41125 |
| 11-JAN-2010 02:34:41 | 37TheAur | 107 | 41125 |
| 11-JAN-2010 02:36:53 | 34BetAur | 42 | 41125 |
| 11-JAN-2010 02:49:22 | 1AlpUMi | 49 | 41125 |
| 11-JAN-2010 02:53:31 | 7BetUMi | 60 | 41125 |
| 11-JAN-2010 02:57:42 | 14EtaDra | 119 | 41125 |
| 11-JAN-2010 03:06:22 | 40ZetHer | 133 | 41125 |
| 11-JAN-2010 03:08:32 | 5AlpCrB | 67 | 41125 |
| 11-JAN-2010 03:14:40 | 24AlpSer | 102 | 41125 |
| 11-JAN-2010 03:16:51 | 1DelOph | 120 | 41125 |
| 11-JAN-2010 03:21:29 | 8Bet1Sco | 97 | 41125 |
| 11-JAN-2010 03:23:15 | 9Alp2Lib | 122 | 41125 |
| 11-JAN-2010 03:27:49 | GamLup | 131 | 41125 |
| 11-JAN-2010 03:29:27 | BetLup | 109 | 41125 |
| 11-JAN-2010 03:30:57 | AlpLup | 78 | 41125 |
| 11-JAN-2010 03:32:49 | ZetCen | 95 | 41125 |
| 11-JAN-2010 03:34:37 | BetCen | 10 | 41126 |
| 11-JAN-2010 03:37:04 | BetCru | 20 | 41126 |
| 11-JAN-2010 03:38:40 | DSA1053 | 0 | 41126 |
| 11-JAN-2010 03:41:18 | TheCar | 124 | 41126 |
| 11-JAN-2010 03:42:55 | MuVel | 113 | 41126 |
| 11-JAN-2010 03:44:38 | lotCar | 71 | 41126 |

| | | | |
|----------------------|-----------|-----|-------|
| 11-JAN-2010 03:45:59 | EpsCar | 41 | 41126 |
| 11-JAN-2010 03:49:17 | Gam2Vel | 34 | 41126 |
| 11-JAN-2010 03:51:27 | ZetPup | 70 | 41126 |
| 11-JAN-2010 03:53:13 | PiPup | 117 | 41126 |
| 11-JAN-2010 03:55:50 | 21EpsCMa | 23 | 41126 |
| 11-JAN-2010 03:57:17 | 24Omi2CMa | 179 | 41126 |
| 11-JAN-2010 03:59:34 | 9AlpCMa | 1 | 41126 |
| 11-JAN-2010 04:06:47 | 58AlpOri | 14 | 41126 |
| 11-JAN-2010 04:09:29 | 24GamGem | 44 | 41126 |
| 11-JAN-2010 04:11:11 | 13MuGem | 151 | 41126 |
| 11-JAN-2010 04:15:17 | 37TheAur | 107 | 41126 |
| 11-JAN-2010 04:17:29 | 34BetAur | 42 | 41126 |
| 11-JAN-2010 04:29:58 | 1AlpUMi | 49 | 41126 |
| 11-JAN-2010 04:34:07 | 7BetUMi | 60 | 41126 |
| 11-JAN-2010 04:38:18 | 14EtaDra | 119 | 41126 |
| 11-JAN-2010 04:46:58 | 40ZetHer | 133 | 41126 |
| 11-JAN-2010 04:49:08 | 5AlpCrB | 67 | 41126 |
| 11-JAN-2010 04:55:16 | 24AlpSer | 102 | 41126 |
| 11-JAN-2010 04:57:27 | 1DelOph | 120 | 41126 |
| 11-JAN-2010 05:00:48 | 27BetLib | 104 | 41126 |
| 11-JAN-2010 05:02:58 | 7DelSco | 80 | 41126 |
| 11-JAN-2010 05:08:26 | GamLup | 131 | 41126 |
| 11-JAN-2010 05:10:03 | BetLup | 109 | 41126 |
| 11-JAN-2010 05:11:34 | AlpLup | 78 | 41126 |
| 11-JAN-2010 05:15:14 | BetCen | 10 | 41127 |
| 11-JAN-2010 05:17:41 | BetCru | 20 | 41127 |
| 11-JAN-2010 05:19:17 | DSA1053 | 0 | 41127 |
| 11-JAN-2010 05:21:55 | TheCar | 124 | 41127 |
| 11-JAN-2010 05:23:31 | MuVel | 113 | 41127 |
| 11-JAN-2010 05:25:14 | lotCar | 71 | 41127 |
| 11-JAN-2010 05:26:35 | EpsCar | 41 | 41127 |
| 11-JAN-2010 05:29:53 | Gam2Vel | 34 | 41127 |
| 11-JAN-2010 05:32:03 | ZetPup | 70 | 41127 |
| 11-JAN-2010 05:33:50 | PiPup | 117 | 41127 |
| 11-JAN-2010 05:36:26 | 21EpsCMa | 23 | 41127 |
| 11-JAN-2010 05:37:53 | 24Omi2CMa | 179 | 41127 |
| 11-JAN-2010 05:40:10 | 9AlpCMa | 1 | 41127 |
| 11-JAN-2010 05:47:23 | 58AlpOri | 14 | 41127 |
| 11-JAN-2010 05:50:05 | 24GamGem | 44 | 41127 |
| 11-JAN-2010 05:51:47 | 13MuGem | 151 | 41127 |
| 11-JAN-2010 05:55:53 | 37TheAur | 107 | 41127 |
| 11-JAN-2010 05:58:05 | 34BetAur | 42 | 41127 |
| 11-JAN-2010 06:10:34 | 1AlpUMi | 49 | 41127 |
| 11-JAN-2010 06:14:42 | 7BetUMi | 60 | 41127 |
| 11-JAN-2010 06:18:54 | 14EtaDra | 119 | 41127 |
| 11-JAN-2010 06:27:34 | 40ZetHer | 133 | 41127 |
| 11-JAN-2010 06:29:44 | 5AlpCrB | 67 | 41127 |
| 11-JAN-2010 06:35:53 | 24AlpSer | 102 | 41127 |
| 11-JAN-2010 06:38:04 | 1DelOph | 120 | 41127 |
| 11-JAN-2010 06:41:25 | 27BetLib | 104 | 41127 |
| 11-JAN-2010 06:43:35 | 7DelSco | 80 | 41127 |
| 11-JAN-2010 06:49:02 | GamLup | 131 | 41127 |
| 11-JAN-2010 06:50:40 | BetLup | 109 | 41127 |
| 11-JAN-2010 06:52:10 | AlpLup | 78 | 41127 |
| 11-JAN-2010 06:55:50 | BetCen | 10 | 41128 |
| 11-JAN-2010 06:58:17 | BetCru | 20 | 41128 |
| 11-JAN-2010 06:59:53 | DSA1053 | 0 | 41128 |
| 11-JAN-2010 07:02:31 | TheCar | 124 | 41128 |
| 11-JAN-2010 07:04:08 | MuVel | 113 | 41128 |

| | | | |
|----------------------|-----------|-----|-------|
| 11-JAN-2010 07:05:51 | lotCar | 71 | 41128 |
| 11-JAN-2010 07:07:11 | EpsCar | 41 | 41128 |
| 11-JAN-2010 07:10:30 | Gam2Vel | 34 | 41128 |
| 11-JAN-2010 07:12:39 | ZetPup | 70 | 41128 |
| 11-JAN-2010 07:14:26 | PiPup | 117 | 41128 |
| 11-JAN-2010 07:17:03 | 21EpsCMa | 23 | 41128 |
| 11-JAN-2010 07:18:29 | 24Omi2CMa | 179 | 41128 |
| 11-JAN-2010 07:20:46 | 9AlpCMa | 1 | 41128 |
| 11-JAN-2010 07:27:59 | 58AlpOri | 14 | 41128 |
| 11-JAN-2010 07:30:41 | 24GamGem | 44 | 41128 |
| 11-JAN-2010 07:32:22 | 13MuGem | 151 | 41128 |
| 11-JAN-2010 07:36:29 | 37TheAur | 107 | 41128 |
| 11-JAN-2010 07:38:41 | 34BetAur | 42 | 41128 |
| 11-JAN-2010 07:51:10 | 1AlpUMi | 49 | 41128 |
| 11-JAN-2010 07:55:18 | 7BetUMi | 60 | 41128 |
| 11-JAN-2010 07:59:30 | 14EtaDra | 119 | 41128 |
| 11-JAN-2010 08:08:10 | 40ZetHer | 133 | 41128 |
| 11-JAN-2010 08:10:20 | 5AlpCrB | 67 | 41128 |
| 11-JAN-2010 08:16:29 | 24AlpSer | 102 | 41128 |
| 11-JAN-2010 08:18:40 | 1DelOph | 120 | 41128 |
| 11-JAN-2010 08:22:02 | 27BetLib | 104 | 41128 |
| 11-JAN-2010 08:24:11 | 7DelSco | 80 | 41128 |
| 11-JAN-2010 08:29:39 | GamLup | 131 | 41128 |
| 11-JAN-2010 08:31:16 | BetLup | 109 | 41128 |
| 11-JAN-2010 08:32:47 | AlpLup | 78 | 41128 |
| 11-JAN-2010 08:34:39 | ZetCen | 95 | 41128 |
| 11-JAN-2010 08:36:27 | BetCen | 10 | 41129 |
| 11-JAN-2010 08:38:54 | BetCru | 20 | 41129 |
| 11-JAN-2010 08:40:30 | DSA1053 | 0 | 41129 |
| 11-JAN-2010 08:43:08 | TheCar | 124 | 41129 |
| 11-JAN-2010 08:44:45 | MuVel | 113 | 41129 |
| 11-JAN-2010 08:46:27 | lotCar | 71 | 41129 |
| 11-JAN-2010 08:47:48 | EpsCar | 41 | 41129 |
| 11-JAN-2010 08:51:06 | Gam2Vel | 34 | 41129 |
| 11-JAN-2010 08:53:16 | ZetPup | 70 | 41129 |
| 11-JAN-2010 08:55:02 | PiPup | 117 | 41129 |
| 11-JAN-2010 08:57:39 | 21EpsCMa | 23 | 41129 |
| 11-JAN-2010 08:59:05 | 24Omi2CMa | 179 | 41129 |
| 11-JAN-2010 09:01:22 | 9AlpCMa | 1 | 41129 |
| 11-JAN-2010 09:08:35 | 58AlpOri | 14 | 41129 |
| 11-JAN-2010 09:11:16 | 24GamGem | 44 | 41129 |
| 11-JAN-2010 09:12:58 | 13MuGem | 151 | 41129 |
| 11-JAN-2010 09:17:05 | 37TheAur | 107 | 41129 |
| 11-JAN-2010 09:19:17 | 34BetAur | 42 | 41129 |
| 11-JAN-2010 09:31:46 | 1AlpUMi | 49 | 41129 |
| 11-JAN-2010 09:35:54 | 7BetUMi | 60 | 41129 |
| 11-JAN-2010 09:40:06 | 14EtaDra | 119 | 41129 |
| 11-JAN-2010 09:48:46 | 40ZetHer | 133 | 41129 |
| 11-JAN-2010 09:50:56 | 5AlpCrB | 67 | 41129 |
| 11-JAN-2010 09:57:05 | 24AlpSer | 102 | 41129 |
| 11-JAN-2010 09:59:16 | 1DelOph | 120 | 41129 |
| 11-JAN-2010 10:02:38 | 27BetLib | 104 | 41129 |
| 11-JAN-2010 10:04:47 | 7DelSco | 80 | 41129 |
| 11-JAN-2010 10:10:15 | GamLup | 131 | 41129 |
| 11-JAN-2010 10:11:53 | BetLup | 109 | 41129 |
| 11-JAN-2010 10:13:23 | AlpLup | 78 | 41129 |
| 11-JAN-2010 10:15:16 | ZetCen | 95 | 41129 |
| 11-JAN-2010 10:17:03 | BetCen | 10 | 41130 |
| 11-JAN-2010 10:19:30 | BetCru | 20 | 41130 |

| | | | |
|----------------------|-----------|-----|-------|
| 11-JAN-2010 10:21:07 | DSA1053 | 0 | 41130 |
| 11-JAN-2010 10:23:44 | TheCar | 124 | 41130 |
| 11-JAN-2010 10:25:22 | MuVel | 113 | 41130 |
| 11-JAN-2010 10:27:03 | lotCar | 71 | 41130 |
| 11-JAN-2010 10:28:24 | EpsCar | 41 | 41130 |
| 11-JAN-2010 10:31:42 | Gam2Vel | 34 | 41130 |
| 11-JAN-2010 10:33:52 | ZetPup | 70 | 41130 |
| 11-JAN-2010 10:35:38 | PiPup | 117 | 41130 |
| 11-JAN-2010 10:38:15 | 21EpsCMa | 23 | 41130 |
| 11-JAN-2010 10:39:42 | 24Omi2CMa | 179 | 41130 |
| 11-JAN-2010 10:41:58 | 9AlpCMa | 1 | 41130 |
| 11-JAN-2010 10:49:11 | 58AlpOri | 14 | 41130 |
| 11-JAN-2010 10:51:52 | 24GamGem | 44 | 41130 |
| 11-JAN-2010 10:53:34 | 13MuGem | 151 | 41130 |
| 11-JAN-2010 10:57:40 | 37TheAur | 107 | 41130 |
| 11-JAN-2010 10:59:53 | 34BetAur | 42 | 41130 |
| 11-JAN-2010 11:12:22 | 1AlpUMi | 49 | 41130 |
| 11-JAN-2010 11:16:30 | 7BetUMi | 60 | 41130 |
| 11-JAN-2010 11:20:41 | 14EtaDra | 119 | 41130 |
| 11-JAN-2010 11:29:23 | 40ZetHer | 133 | 41130 |
| 11-JAN-2010 11:31:32 | 5AlpCrB | 67 | 41130 |
| 11-JAN-2010 11:37:42 | 24AlpSer | 102 | 41130 |
| 11-JAN-2010 11:39:52 | 1DelOph | 120 | 41130 |
| 11-JAN-2010 11:43:15 | 27BetLib | 104 | 41130 |
| 11-JAN-2010 11:45:24 | 7DelSco | 80 | 41130 |
| 11-JAN-2010 11:50:51 | GamLup | 131 | 41130 |
| 11-JAN-2010 11:52:29 | BetLup | 109 | 41130 |
| 11-JAN-2010 11:54:00 | AlpLup | 78 | 41130 |
| 11-JAN-2010 11:55:53 | ZetCen | 95 | 41130 |
| 11-JAN-2010 11:57:39 | BetCen | 10 | 41131 |
| 11-JAN-2010 12:00:07 | BetCru | 20 | 41131 |
| 11-JAN-2010 12:01:44 | DSA1053 | 0 | 41131 |
| 11-JAN-2010 12:04:20 | TheCar | 124 | 41131 |
| 11-JAN-2010 12:05:58 | MuVel | 113 | 41131 |
| 11-JAN-2010 12:07:40 | lotCar | 71 | 41131 |
| 11-JAN-2010 12:09:00 | EpsCar | 41 | 41131 |
| 11-JAN-2010 12:12:19 | Gam2Vel | 34 | 41131 |
| 11-JAN-2010 12:14:28 | ZetPup | 70 | 41131 |
| 11-JAN-2010 12:16:14 | PiPup | 117 | 41131 |
| 11-JAN-2010 12:18:51 | 21EpsCMa | 23 | 41131 |
| 11-JAN-2010 12:20:18 | 24Omi2CMa | 179 | 41131 |
| 11-JAN-2010 12:22:34 | 9AlpCMa | 1 | 41131 |
| 11-JAN-2010 12:29:47 | 58AlpOri | 14 | 41131 |
| 11-JAN-2010 12:32:28 | 24GamGem | 44 | 41131 |
| 11-JAN-2010 12:34:10 | 13MuGem | 151 | 41131 |
| 11-JAN-2010 12:38:16 | 37TheAur | 107 | 41131 |
| 11-JAN-2010 12:40:28 | 34BetAur | 42 | 41131 |
| 11-JAN-2010 12:52:58 | 1AlpUMi | 49 | 41131 |
| 11-JAN-2010 12:57:06 | 7BetUMi | 60 | 41131 |
| 11-JAN-2010 13:01:17 | 14EtaDra | 119 | 41131 |
| 11-JAN-2010 13:09:59 | 40ZetHer | 133 | 41131 |
| 11-JAN-2010 13:12:09 | 5AlpCrB | 67 | 41131 |
| 11-JAN-2010 13:18:18 | 24AlpSer | 102 | 41131 |
| 11-JAN-2010 13:20:29 | 1DelOph | 120 | 41131 |
| 11-JAN-2010 13:23:51 | 27BetLib | 104 | 41131 |
| 11-JAN-2010 13:26:00 | 7DelSco | 80 | 41131 |
| 11-JAN-2010 13:31:28 | GamLup | 131 | 41131 |
| 11-JAN-2010 13:33:06 | BetLup | 109 | 41131 |
| 11-JAN-2010 13:34:36 | AlpLup | 78 | 41131 |

| | | | |
|----------------------|-----------|-----|-------|
| 11-JAN-2010 13:36:29 | ZetCen | 95 | 41131 |
| 11-JAN-2010 13:38:16 | BetCen | 10 | 41132 |
| 11-JAN-2010 13:40:43 | BetCru | 20 | 41132 |
| 11-JAN-2010 13:42:21 | DSA1053 | 0 | 41132 |
| 11-JAN-2010 13:44:57 | TheCar | 124 | 41132 |
| 11-JAN-2010 13:46:35 | MuVel | 113 | 41132 |
| 11-JAN-2010 13:48:16 | lotCar | 71 | 41132 |
| 11-JAN-2010 13:49:37 | EpsCar | 41 | 41132 |
| 11-JAN-2010 13:52:55 | Gam2Vel | 34 | 41132 |
| 11-JAN-2010 13:55:05 | ZetPup | 70 | 41132 |
| 11-JAN-2010 13:56:51 | PiPup | 117 | 41132 |
| 11-JAN-2010 13:59:27 | 21EpsCMa | 23 | 41132 |
| 11-JAN-2010 14:00:54 | 24Omi2CMa | 179 | 41132 |
| 11-JAN-2010 14:03:10 | 9AlpCMa | 1 | 41132 |
| 11-JAN-2010 14:10:23 | 58AlpOri | 14 | 41132 |
| 11-JAN-2010 14:13:04 | 24GamGem | 44 | 41132 |
| 11-JAN-2010 14:14:46 | 13MuGem | 151 | 41132 |
| 11-JAN-2010 14:18:52 | 37TheAur | 107 | 41132 |
| 11-JAN-2010 14:21:04 | 34BetAur | 42 | 41132 |
| 11-JAN-2010 14:33:34 | 1AlpUMi | 49 | 41132 |
| 11-JAN-2010 14:37:41 | 7BetUMi | 60 | 41132 |
| 11-JAN-2010 14:41:53 | 14EtaDra | 119 | 41132 |
| 11-JAN-2010 14:50:35 | 40ZetHer | 133 | 41132 |
| 11-JAN-2010 14:52:45 | 5AlpCrB | 67 | 41132 |
| 11-JAN-2010 14:58:54 | 24AlpSer | 102 | 41132 |
| 11-JAN-2010 15:01:05 | 1DelOph | 120 | 41132 |
| 11-JAN-2010 15:04:28 | 27BetLib | 104 | 41132 |
| 11-JAN-2010 15:06:37 | 7DelSco | 80 | 41132 |
| 11-JAN-2010 15:12:04 | GamLup | 131 | 41132 |
| 11-JAN-2010 15:13:42 | BetLup | 109 | 41132 |
| 11-JAN-2010 15:15:13 | AlpLup | 78 | 41132 |
| 11-JAN-2010 15:17:06 | ZetCen | 95 | 41133 |
| 11-JAN-2010 15:18:52 | BetCen | 10 | 41133 |
| 11-JAN-2010 15:21:20 | BetCru | 20 | 41133 |
| 11-JAN-2010 15:22:58 | DSA1053 | 0 | 41133 |
| 11-JAN-2010 15:25:33 | TheCar | 124 | 41133 |
| 11-JAN-2010 15:27:12 | MuVel | 113 | 41133 |
| 11-JAN-2010 15:28:53 | lotCar | 71 | 41133 |
| 11-JAN-2010 15:30:13 | EpsCar | 41 | 41133 |
| 11-JAN-2010 15:33:31 | Gam2Vel | 34 | 41133 |
| 11-JAN-2010 15:35:41 | ZetPup | 70 | 41133 |
| 11-JAN-2010 15:37:27 | PiPup | 117 | 41133 |
| 11-JAN-2010 15:40:03 | 21EpsCMa | 23 | 41133 |
| 11-JAN-2010 15:41:30 | 24Omi2CMa | 179 | 41133 |
| 11-JAN-2010 15:43:46 | 9AlpCMa | 1 | 41133 |
| 11-JAN-2010 15:50:59 | 58AlpOri | 14 | 41133 |
| 11-JAN-2010 15:53:39 | 24GamGem | 44 | 41133 |
| 11-JAN-2010 15:55:21 | 13MuGem | 151 | 41133 |
| 11-JAN-2010 15:59:28 | 37TheAur | 107 | 41133 |
| 11-JAN-2010 16:01:40 | 34BetAur | 42 | 41133 |
| 11-JAN-2010 16:14:10 | 1AlpUMi | 49 | 41133 |
| 11-JAN-2010 16:18:17 | 7BetUMi | 60 | 41133 |
| 11-JAN-2010 16:22:29 | 14EtaDra | 119 | 41133 |
| 11-JAN-2010 16:31:11 | 40ZetHer | 133 | 41133 |
| 11-JAN-2010 16:33:21 | 5AlpCrB | 67 | 41133 |
| 11-JAN-2010 16:39:31 | 24AlpSer | 102 | 41133 |
| 11-JAN-2010 16:41:41 | 1DelOph | 120 | 41133 |
| 11-JAN-2010 16:45:05 | 27BetLib | 104 | 41133 |
| 11-JAN-2010 16:47:13 | 7DelSco | 80 | 41133 |

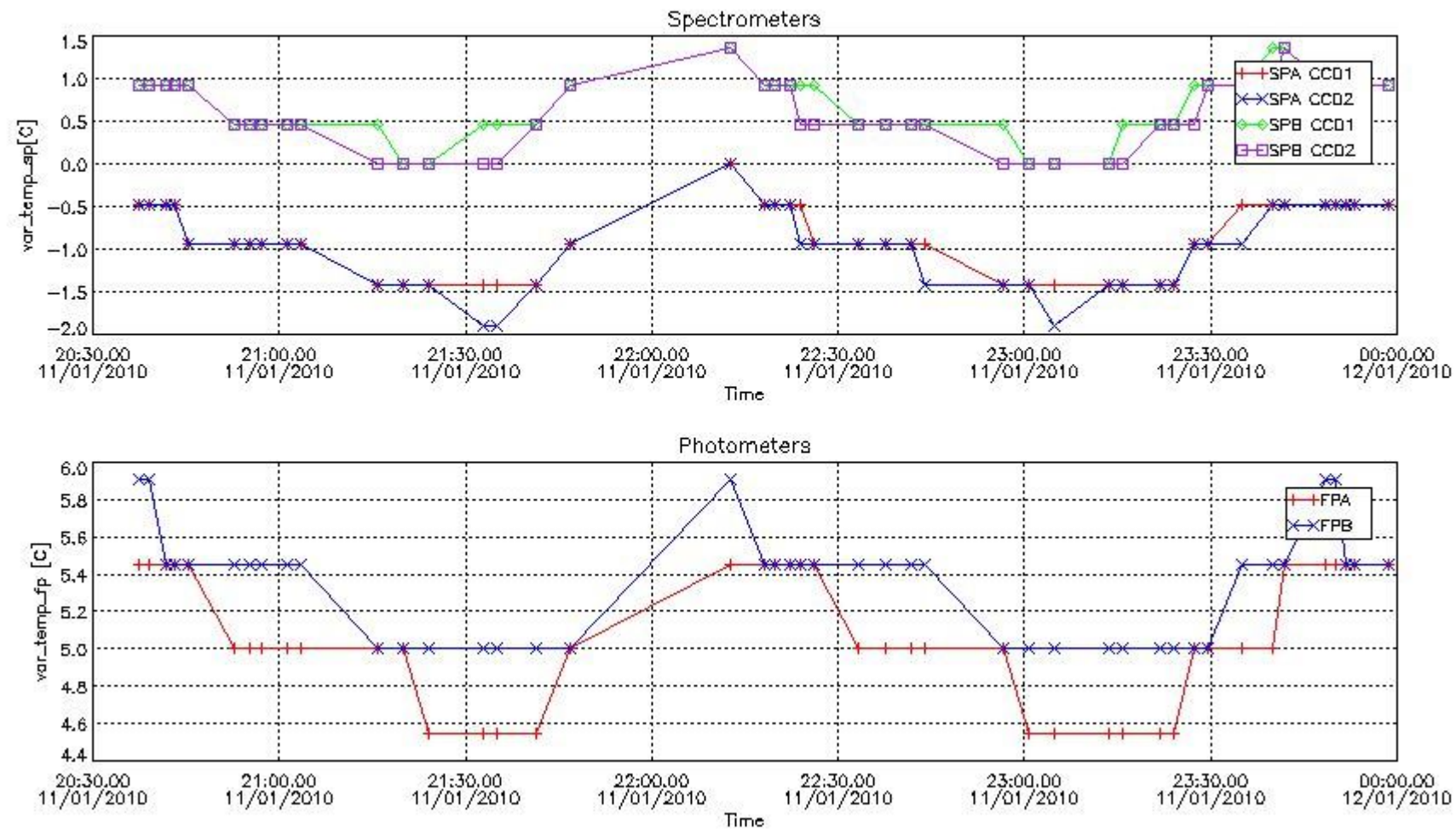
| | | | |
|----------------------|----------|-----|-------|
| 11-JAN-2010 16:52:41 | GamLup | 131 | 41133 |
| 11-JAN-2010 16:54:19 | BetLup | 109 | 41133 |
| 11-JAN-2010 16:55:49 | AlpLup | 78 | 41133 |
| 11-JAN-2010 16:57:43 | ZetCen | 95 | 41134 |
| 11-JAN-2010 17:01:56 | BetCru | 20 | 41134 |
| 11-JAN-2010 17:14:08 | Gam2Vel | 34 | 41134 |
| 11-JAN-2010 17:34:15 | 24GamGem | 44 | 41134 |
| 11-JAN-2010 17:58:53 | 7BetUMi | 60 | 41134 |
| 11-JAN-2010 18:34:55 | BetLup | 109 | 41134 |
| 11-JAN-2010 18:42:33 | BetCru | 20 | 41135 |
| 11-JAN-2010 18:46:46 | TheCar | 124 | 41135 |
| 11-JAN-2010 18:54:44 | Gam2Vel | 34 | 41135 |
| 11-JAN-2010 20:02:54 | 1DelOph | 120 | 41135 |
| 11-JAN-2010 20:15:32 | BetLup | 109 | 41135 |
| 11-JAN-2010 20:27:23 | TheCar | 124 | 41136 |
| 11-JAN-2010 20:35:20 | Gam2Vel | 34 | 41136 |
| 11-JAN-2010 21:43:30 | 1DelOph | 120 | 41136 |
| 11-JAN-2010 21:56:08 | BetLup | 109 | 41136 |
| 11-JAN-2010 22:03:46 | BetCru | 20 | 41137 |
| 11-JAN-2010 22:15:57 | Gam2Vel | 34 | 41137 |
| 11-JAN-2010 22:36:03 | 24GamGem | 44 | 41137 |
| 11-JAN-2010 23:36:45 | BetLup | 109 | 41137 |
| 11-JAN-2010 23:38:15 | AlpLup | 78 | 41137 |
| 11-JAN-2010 23:44:23 | BetCru | 20 | 41138 |
| 11-JAN-2010 23:56:33 | Gam2Vel | 34 | 41138 |

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_1PNPDE20100111_203724_000000442085_00501_41136_3927.N1 | 11-JAN-2010 20:37:24 | Dark | 43.500 | 70 | Zet Pup | 2.2460 | 39000. | 87 | 41136 | No |
| 2 | GOM_TRA_1PNPDE20100111_203910_000000462085_00501_41136_3928.N1 | 11-JAN-2010 20:39:10 | Straylight | 46.000 | 117 | Pi Pup | 2.7060 | 3800.0 | 92 | 41136 | No |
| 3 | GOM_TRA_1PNPDE20100111_204146_000000422085_00501_41136_3929.N1 | 11-JAN-2010 20:41:46 | Straylight | 41.500 | 23 | 21Eps CMa | 1.5020 | 26000. | 83 | 41136 | No |
| 4 | GOM_TRA_1PNPDE20100111_204313_000000422085_00501_41136_3930.N1 | 11-JAN-2010 20:43:13 | Straylight | 41.500 | 179 | 24Omi2CMa | 3.0320 | 24000. | 83 | 41136 | No |
| 5 | GOM_TRA_1PNPDE20100111_204529_000000452085_00501_41136_3931.N1 | 11-JAN-2010 20:45:29 | Straylight | 45.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 90 | 41136 | No |
| 6 | GOM_TRA_1PNPDE20100111_205242_000000522085_00501_41136_3932.N1 | 11-JAN-2010 20:52:42 | Twilight | 51.500 | 14 | 58Alp Ori | 0.87000 | 3000.0 | 103 | 41136 | No |
| 7 | GOM_TRA_1PNPDE20100111_205521_000000442085_00501_41136_3933.N1 | 11-JAN-2010 20:55:21 | Twilight | 44.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 88 | 41136 | No |
| 8 | GOM_TRA_1PNPDE20100111_205704_000000542085_00501_41136_3934.N1 | 11-JAN-2010 20:57:04 | Bright | 54.000 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 108 | 41136 | No |
| 9 | GOM_TRA_1PNPDE20100111_210110_000000372085_00501_41136_3935.N1 | 11-JAN-2010 21:01:10 | Bright | 36.500 | 107 | 37The Aur | 2.6490 | 11000. | 73 | 41136 | No |
| 10 | GOM_TRA_1PNPDE20100111_210322_000000382085_00501_41136_3936.N1 | 11-JAN-2010 21:03:22 | Bright | 38.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 76 | 41136 | No |
| 11 | GOM_TRA_1PNPDE20100111_211552_000000342085_00501_41136_3937.N1 | 11-JAN-2010 21:15:52 | Bright | 33.500 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 67 | 41136 | No |
| 12 | GOM_TRA_1PNPDE20100111_211959_000000402085_00501_41136_3938.N1 | 11-JAN-2010 21:19:59 | Bright | 39.500 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 79 | 41136 | No |
| 13 | GOM_TRA_1PNPDE20100111_212412_000000522085_00501_41136_3939.N1 | 11-JAN-2010 21:24:12 | Bright | 52.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 104 | 41136 | No |
| 14 | GOM_TRA_1PNPDE20100111_213254_000000532085_00501_41136_3940.N1 | 11-JAN-2010 21:32:54 | Bright | 53.000 | 133 | 40Zet Her | 2.8070 | 6000.0 | 106 | 41136 | No |
| 15 | GOM_TRA_1PNPDE20100111_213504_000000602085_00501_41136_3941.N1 | 11-JAN-2010 21:35:04 | Bright | 60.000 | 67 | 5Alp CrB | 2.2210 | 11000. | 120 | 41136 | No |
| 16 | GOM_TRA_1PNPDE20100111_214115_000000592085_00501_41136_3942.N1 | 11-JAN-2010 21:41:15 | Bright | 59.000 | 102 | 24Alp Ser | 2.6000 | 4250.0 | 118 | 41136 | No |
| 17 | GOM_TRA_1PNPDE20100111_214649_000000472085_00501_41136_3943.N1 | 11-JAN-2010 21:46:49 | Twilight | 46.500 | 104 | 27Bet Lib | 2.6140 | 13100. | 93 | 41136 | No |
| 18 | GOM_TRA_1PNPDE20100111_221233_000000442086_00001_41137_3947.N1 | 11-JAN-2010 22:12:33 | Dark | 43.500 | 41 | Eps Car | 1.8600 | 4100.0 | 87 | 41137 | No |
| 19 | GOM_TRA_1PNPDE20100111_221801_000000442086_00001_41137_3948.N1 | 11-JAN-2010 22:18:01 | Dark | 44.000 | 70 | Zet Pup | 2.2460 | 39000. | 88 | 41137 | No |
| 20 | GOM_TRA_1PNPDE20100111_221946_000000422086_00001_41137_3949.N1 | 11-JAN-2010 22:19:46 | Straylight | 41.500 | 117 | Pi Pup | 2.7060 | 3800.0 | 83 | 41137 | No |
| 21 | GOM_TRA_1PNPDE20100111_222222_000000432086_00001_41137_3950.N1 | 11-JAN-2010 22:22:22 | Straylight | 43.000 | 23 | 21Eps CMa | 1.5020 | 26000. | 86 | 41137 | No |
| 22 | GOM_TRA_1PNPDE20100111_222349_000000412086_00001_41137_3951.N1 | 11-JAN-2010 22:23:49 | Straylight | 41.000 | 179 | 24Omi2CMa | 3.0320 | 24000. | 82 | 41137 | No |
| 23 | GOM_TRA_1PNPDE20100111_222605_000000422086_00001_41137_3952.N1 | 11-JAN-2010 22:26:05 | Straylight | 42.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 84 | 41137 | No |
| 24 | GOM_TRA_1PNPDE20100111_223318_000000522086_00001_41137_3953.N1 | 11-JAN-2010 22:33:18 | Twilight | 52.000 | 14 | 58Alp Ori | 0.87000 | 3000.0 | 104 | 41137 | No |
| 25 | GOM_TRA_1PNPDE20100111_223739_000000452086_00001_41137_3954.N1 | 11-JAN-2010 22:37:39 | Bright | 44.500 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 89 | 41137 | No |
| 26 | GOM_TRA_1PNPDE20100111_224146_000000382086_00001_41137_3955.N1 | 11-JAN-2010 22:41:46 | Bright | 37.500 | 107 | 37The Aur | 2.6490 | 11000. | 75 | 41137 | No |
| 27 | GOM_TRA_1PNPDE20100111_224358_000000362086_00001_41137_3956.N1 | 11-JAN-2010 22:43:58 | Bright | 36.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 72 | 41137 | No |
| 28 | GOM_TRA_1PNPDE20100111_225628_000000322086_00001_41137_3957.N1 | 11-JAN-2010 22:56:28 | Bright | 32.000 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 64 | 41137 | No |
| 29 | GOM_TRA_1PNPDE20100111_230035_000000402086_00001_41137_3958.N1 | 11-JAN-2010 23:00:35 | Bright | 39.500 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 79 | 41137 | No |

| | | | | | | | | | | | |
|----|--|----------------------|----------|--------|-----|-----------|---------|--------|-----|-------|----|
| 30 | GOM_TRA_1PNPDE20100111_230447_000000542086_00001_41137_3959.N1 | 11-JAN-2010 23:04:47 | Bright | 54.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 108 | 41137 | No |
| 31 | GOM_TRA_1PNPDE20100111_231330_000000532086_00001_41137_3960.N1 | 11-JAN-2010 23:13:30 | Bright | 53.000 | 133 | 40Zet Her | 2.8070 | 6000.0 | 106 | 41137 | No |
| 32 | GOM_TRA_1PNPDE20100111_231540_000000602086_00001_41137_3961.N1 | 11-JAN-2010 23:15:40 | Bright | 60.000 | 67 | 5Alp CrB | 2.2210 | 11000. | 120 | 41137 | No |
| 33 | GOM_TRA_1PNPDE20100111_232151_000000432086_00001_41137_3962.N1 | 11-JAN-2010 23:21:51 | Bright | 42.500 | 102 | 24Alp Ser | 2.6000 | 4250.0 | 85 | 41137 | No |
| 34 | GOM_TRA_1PNPDE20100111_232401_000000372086_00001_41137_3963.N1 | 11-JAN-2010 23:24:01 | Bright | 37.000 | 120 | 1Del Oph | 2.7340 | 3200.0 | 74 | 41137 | No |
| 35 | GOM_TRA_1PNPDE20100111_232726_000000482086_00001_41137_3965.N1 | 11-JAN-2010 23:27:26 | Twilight | 47.500 | 104 | 27Bet Lib | 2.6140 | 13100. | 95 | 41137 | No |
| 36 | GOM_TRA_1PNPDE20100111_232933_000000432086_00001_41137_3966.N1 | 11-JAN-2010 23:29:33 | Twilight | 43.000 | 80 | 7Del Sco | 2.3160 | 30000. | 86 | 41137 | No |
| 37 | GOM_TRA_1PNPDE20100111_233501_000000402086_00001_41137_3967.N1 | 11-JAN-2010 23:35:01 | Dark | 40.000 | 131 | Gam Lup | 2.8000 | 26000. | 80 | 41137 | No |
| 38 | GOM_TRA_1PNPDE20100111_234004_000000432086_00001_41137_3968.N1 | 11-JAN-2010 23:40:04 | Dark | 42.500 | 95 | Zet Cen | 2.5450 | 26000. | 85 | 41137 | No |
| 39 | GOM_TRA_1PNPDE20100111_234149_000000482086_00002_41138_3969.N1 | 11-JAN-2010 23:41:49 | Dark | 47.500 | 10 | Bet Cen | 0.61000 | 28000. | 95 | 41138 | No |
| 40 | GOM_TRA_1PNPDE20100111_234830_000000402086_00002_41138_3970.N1 | 11-JAN-2010 23:48:30 | Dark | 39.500 | 124 | The Car | 2.7640 | 30000. | 79 | 41138 | No |
| 41 | GOM_TRA_1PNPDE20100111_235010_000000512086_00002_41138_3971.N1 | 11-JAN-2010 23:50:10 | Dark | 51.000 | 113 | Mu Vel | 2.6920 | 5000.0 | 102 | 41138 | No |
| 42 | GOM_TRA_1PNPDE20100111_235149_000000402086_00002_41138_3972.N1 | 11-JAN-2010 23:51:49 | Dark | 40.000 | 71 | Iot Car | 2.2460 | 7700.0 | 80 | 41138 | No |
| 43 | GOM_TRA_1PNPDE20100111_235309_000000502086_00002_41138_3973.N1 | 11-JAN-2010 23:53:09 | Dark | 50.000 | 41 | Eps Car | 1.8600 | 4100.0 | 100 | 41138 | No |
| 44 | GOM_TRA_1PNPDE20100111_235837_000000452086_00002_41138_3974.N1 | 11-JAN-2010 23:58:37 | Dark | 45.000 | 70 | Zet Pup | 2.2460 | 39000. | 90 | 41138 | No |

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



4. Overview of dark signal processing per product

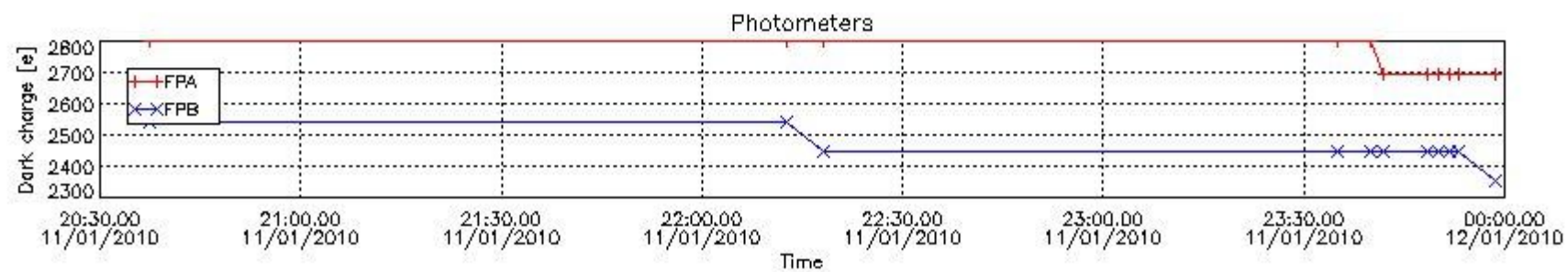
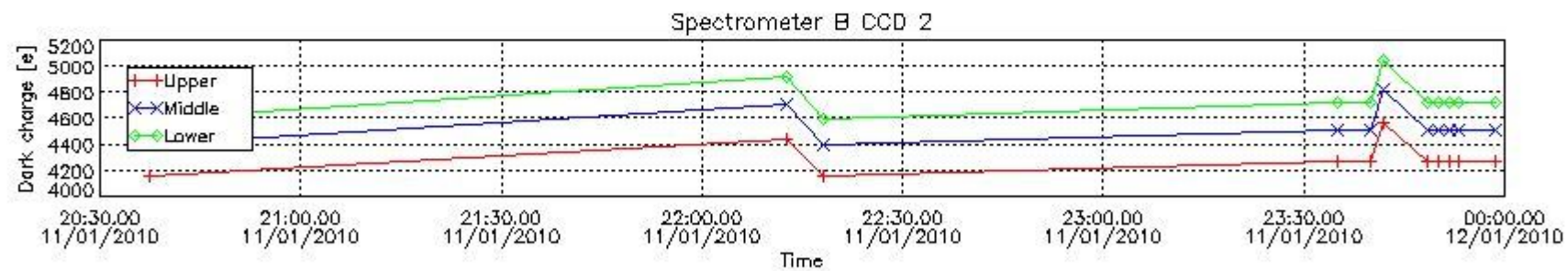
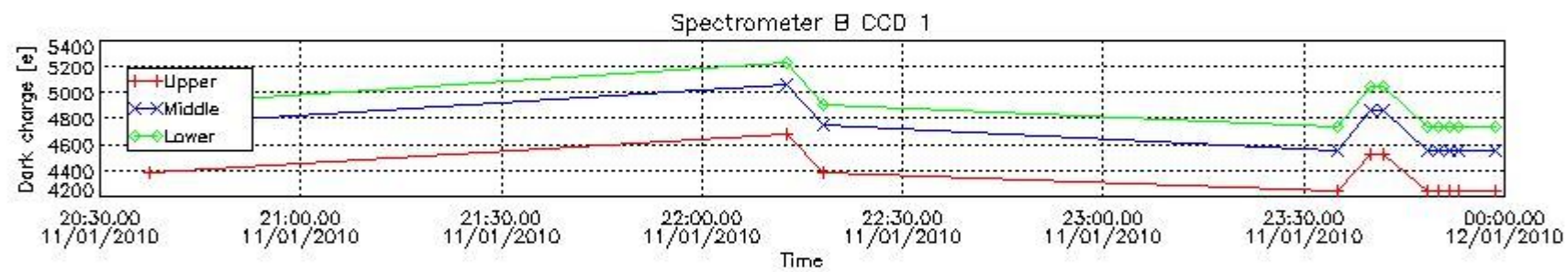
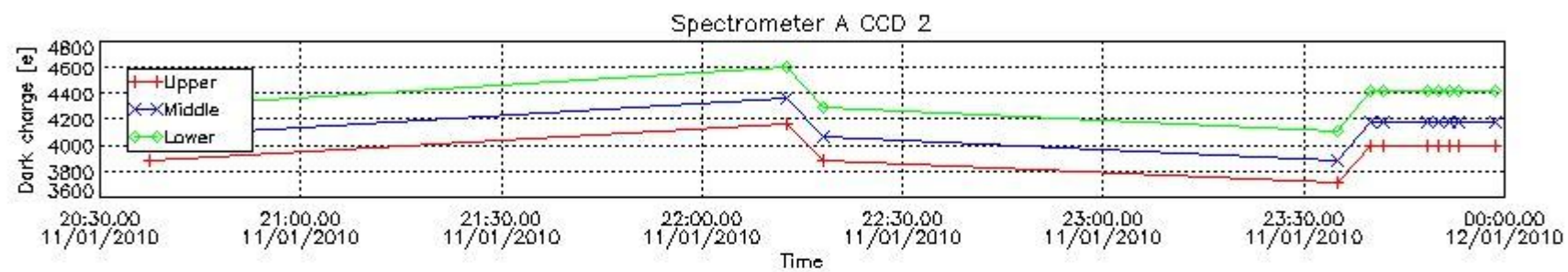
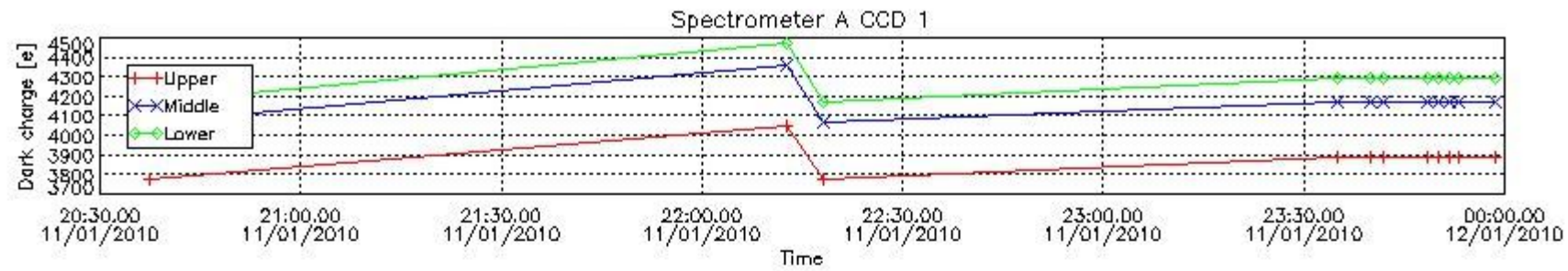
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100111_203724_000000442085_00501_41136_3927.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_203910_000000462085_00501_41136_3928.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_204146_000000422085_00501_41136_3929.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_204313_000000422085_00501_41136_3930.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_204529_000000452085_00501_41136_3931.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_205242_000000522085_00501_41136_3932.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_205521_000000442085_00501_41136_3933.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_205704_000000542085_00501_41136_3934.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_210110_000000372085_00501_41136_3935.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_210322_000000382085_00501_41136_3936.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_211552_000000342085_00501_41136_3937.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_211959_000000402085_00501_41136_3938.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_212412_000000522085_00501_41136_3939.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_213254_000000532085_00501_41136_3940.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_213504_000000602085_00501_41136_3941.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_214115_000000592085_00501_41136_3942.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_214649_000000472085_00501_41136_3943.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_221233_000000442086_00001_41137_3947.N1 | DC map with no T dep. |
| GOM_TRA_1PNPDE20100111_221801_000000442086_00001_41137_3948.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_221946_000000422086_00001_41137_3949.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_222222_000000432086_00001_41137_3950.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_222349_000000412086_00001_41137_3951.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_222605_000000422086_00001_41137_3952.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_223318_000000522086_00001_41137_3953.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_223739_000000452086_00001_41137_3954.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_224146_000000382086_00001_41137_3955.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_224358_000000362086_00001_41137_3956.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_225628_000000322086_00001_41137_3957.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_230035_000000402086_00001_41137_3958.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_230447_000000542086_00001_41137_3959.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_231330_000000532086_00001_41137_3960.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_231540_000000602086_00001_41137_3961.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_232151_000000432086_00001_41137_3962.N1 | DC map used |
| GOM_TRA_1PNPDE20100111_232401_000000372086_00001_41137_3963.N1 | DC map used |

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



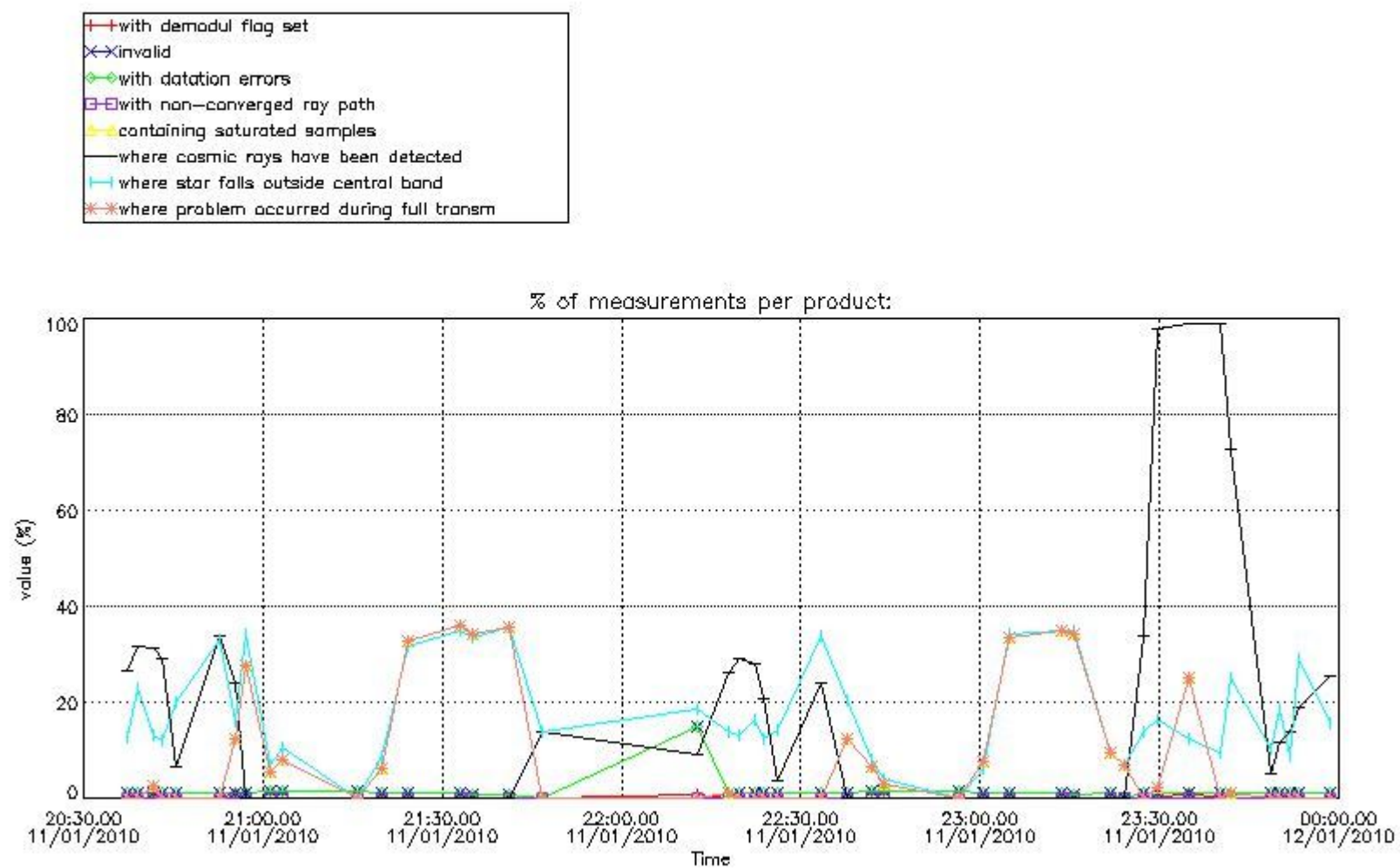
5. Demodulation flag and quality information monitoring

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.

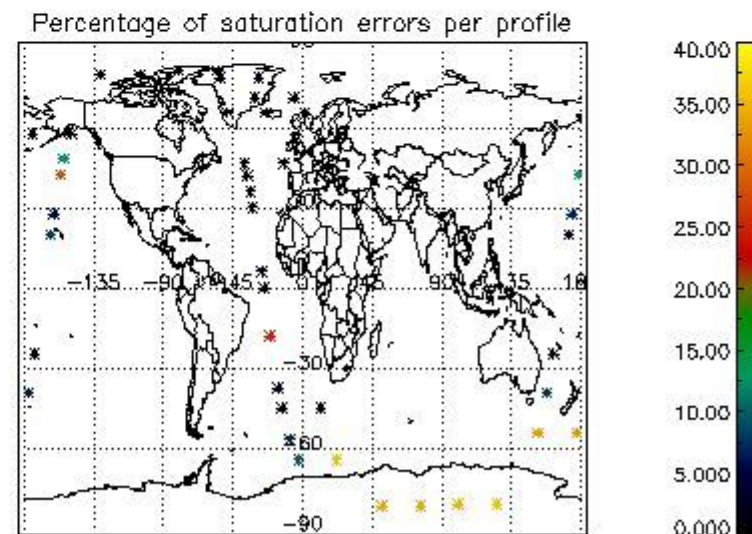
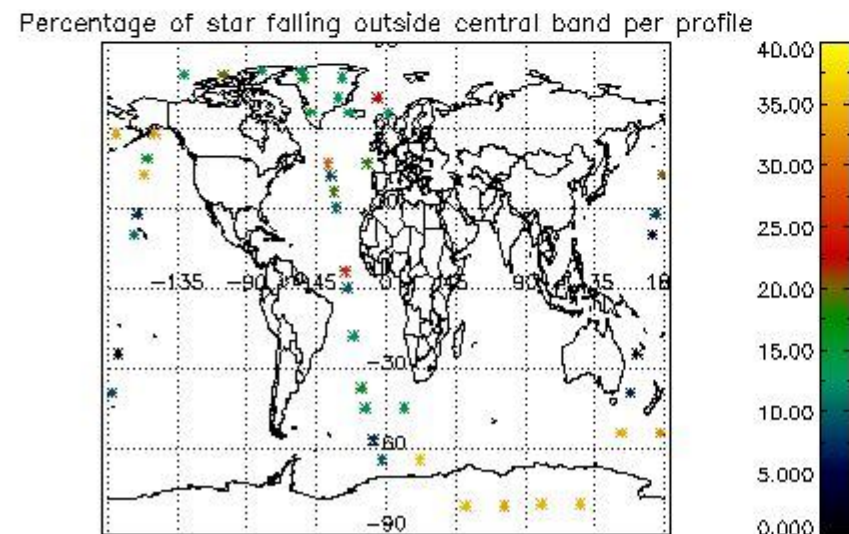
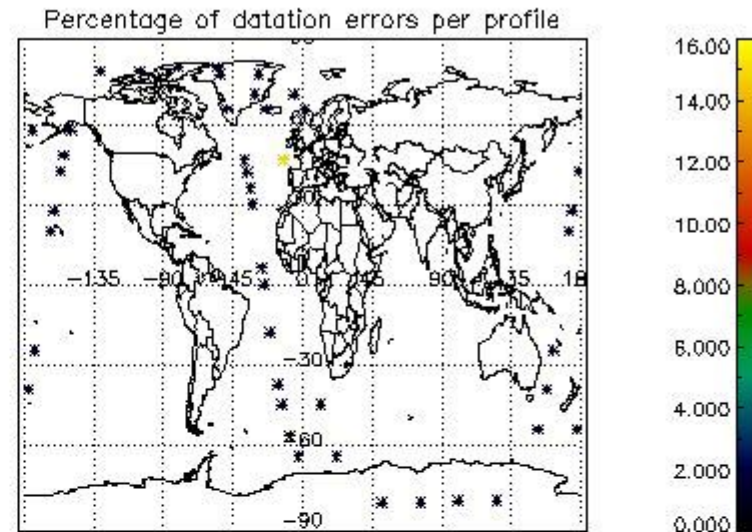
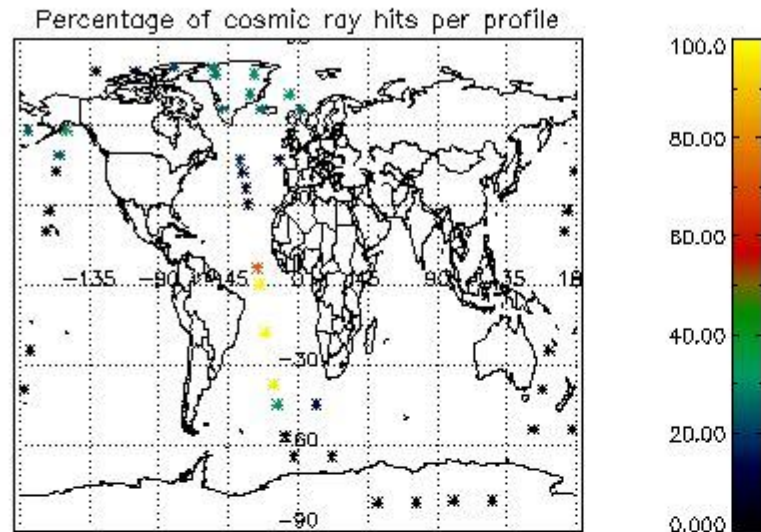
5.1 Percentage of products during reporting period with:

| | |
|---|-----------|
| At least one measurement with demodulation flag set: | 38.6364 % |
| Reference spectrum computed from DB: | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used: | 0.00000 % |

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



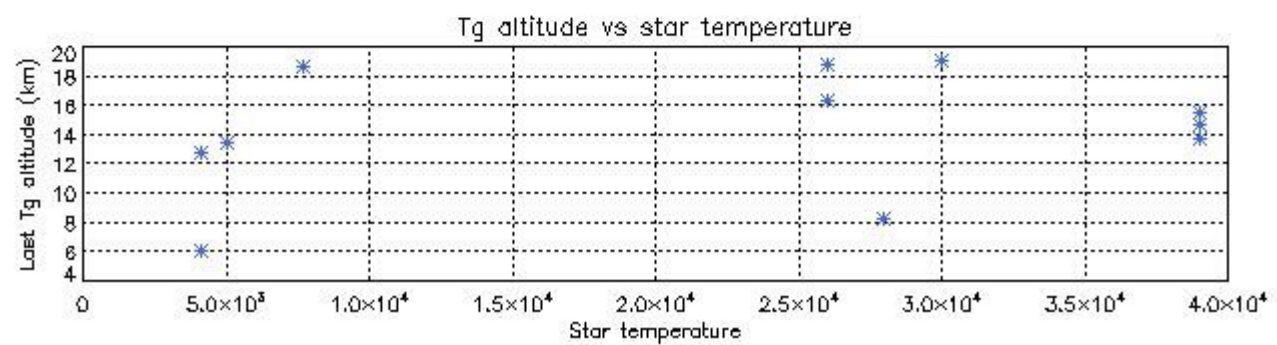
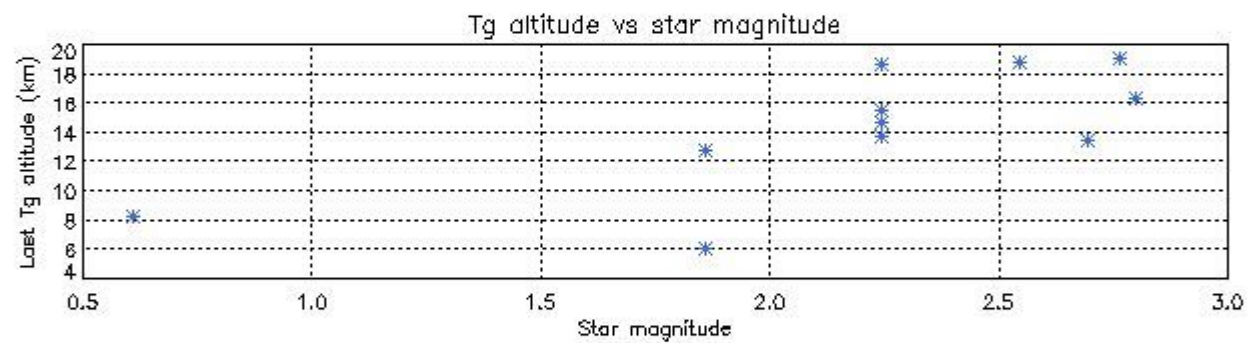
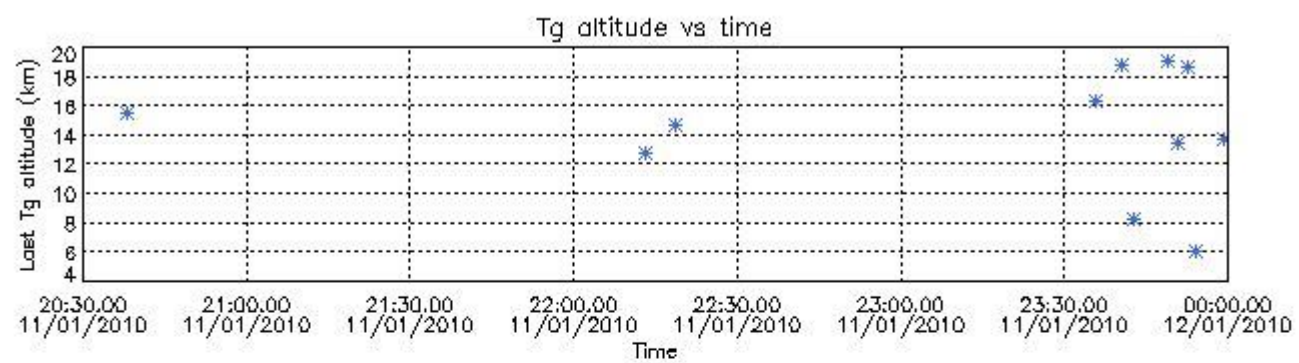
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean: | 14.258 | 13.497 | NaN |
| St. deviation: | 4.1893 | 8.9226 | NaN |
| Maximum: | 19.004 | 29.922 | NaN |
| Minimum: | 5.9956 | 3.3554 | NaN |
| Number of data: | 11.000 | 19.000 | NaN |

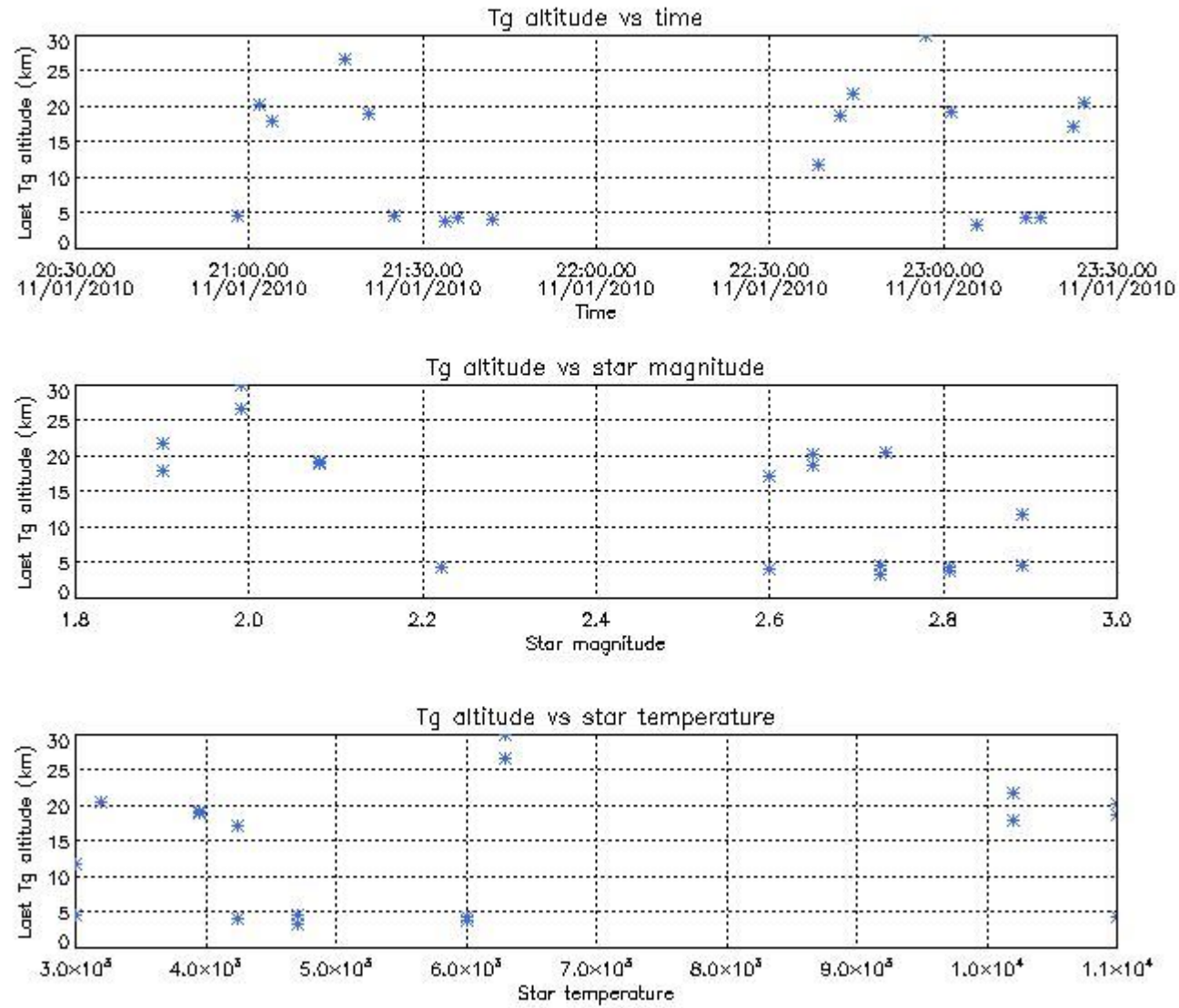
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

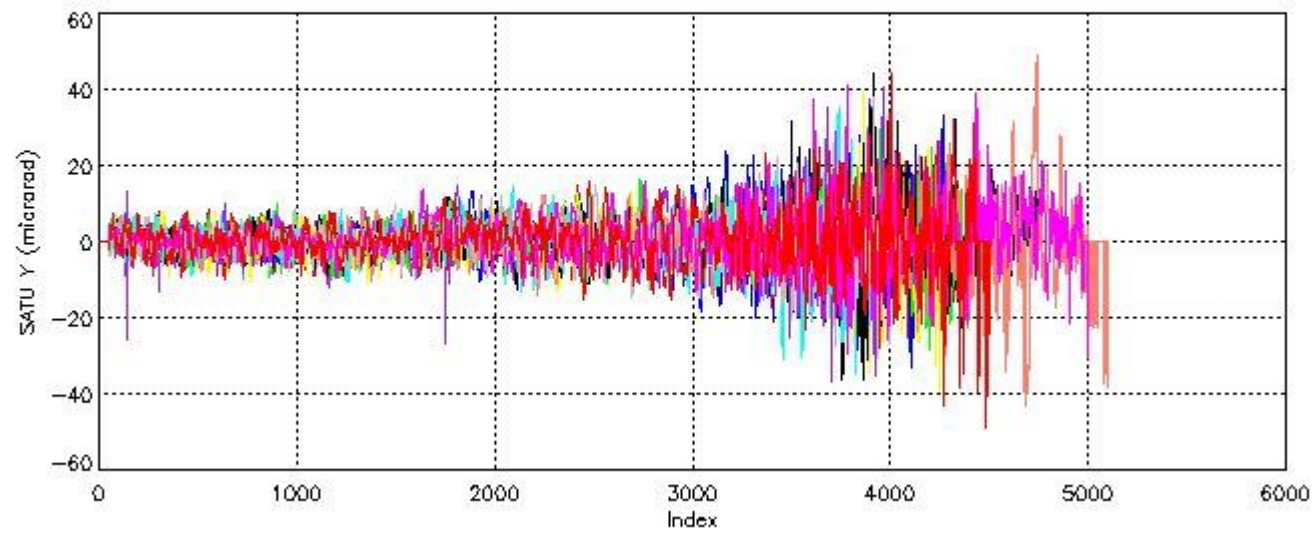
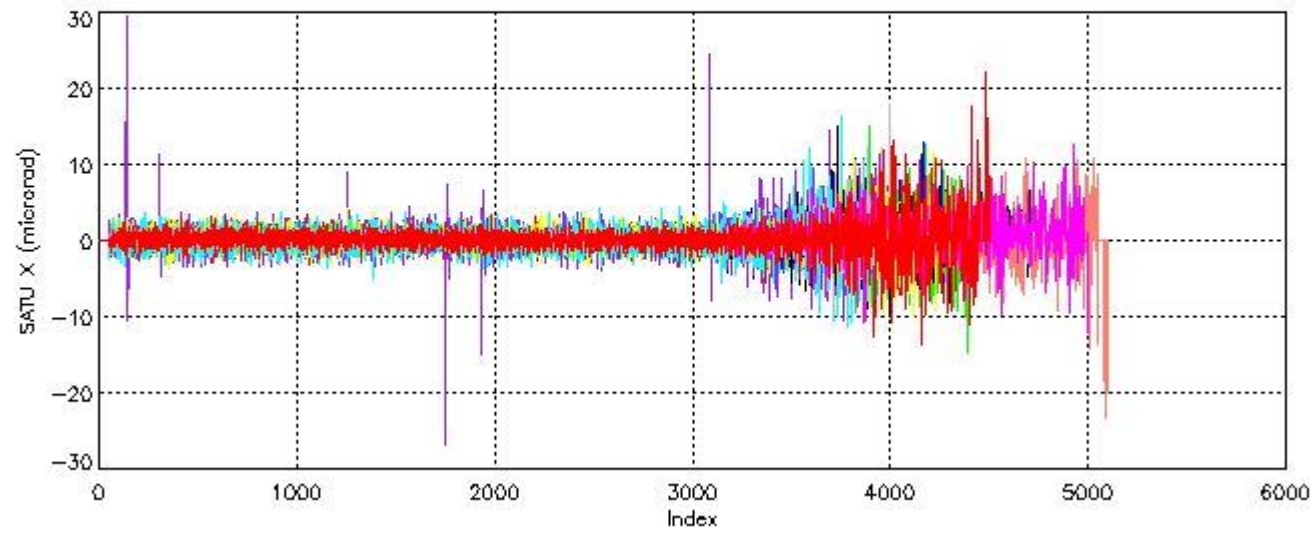


7. Star Acquisition and Tracking Unit (SATU)

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: | 0.17984 | 0.10083 | 0.075634 | -0.040979 |
| St. deviation: | 0.76043 | 2.8052 | 0.66361 | 2.9418 |
| Maximum: | 29.500 | 12.900 | 4.9000 | 10.300 |
| Minimum: | -10.500 | -26.000 | -4.9000 | -12.600 |

| | | | | |
|-----------------|--------|--------|--------|--------|
| Number of data: | 10300. | 10300. | 16700. | 16700. |
|-----------------|--------|--------|--------|--------|

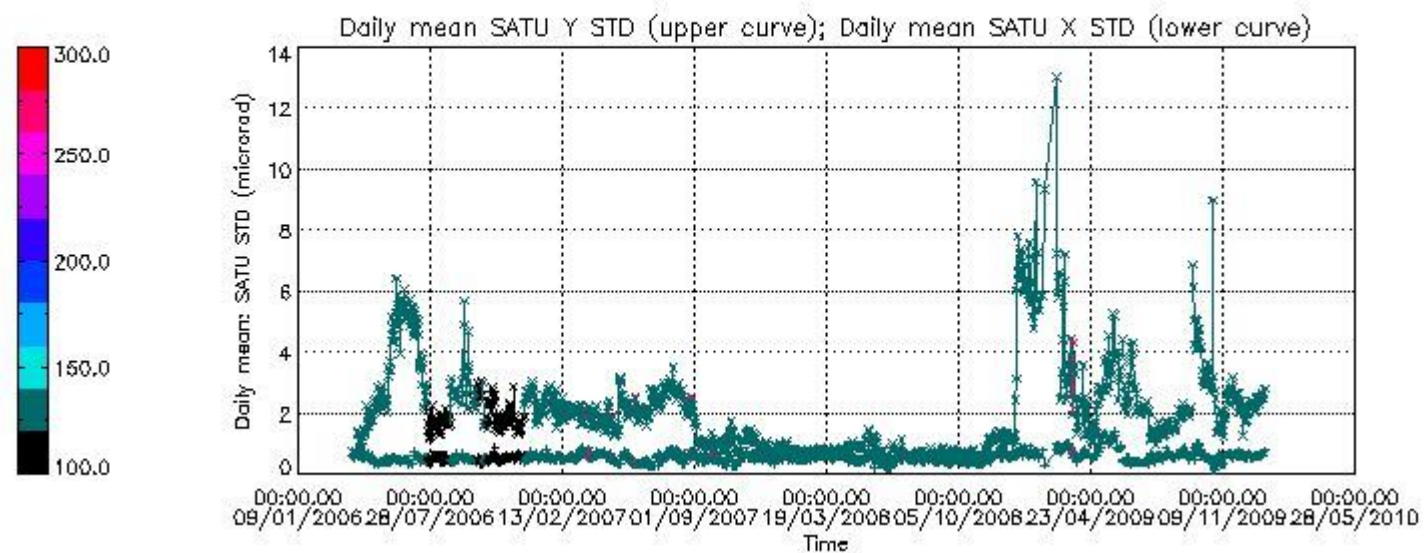
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

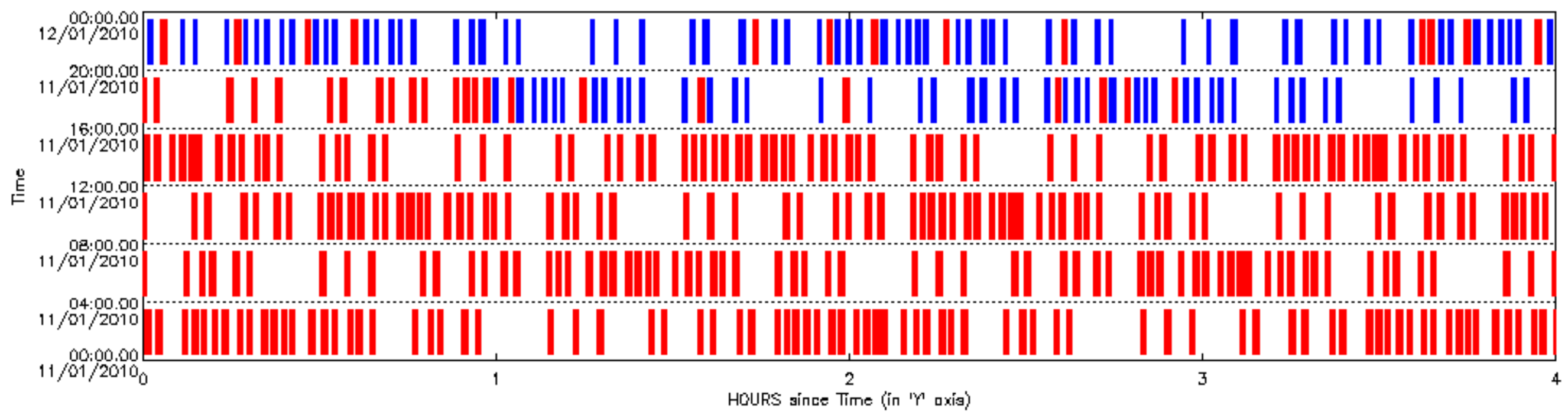
Lower curve: STD of SATU X axis

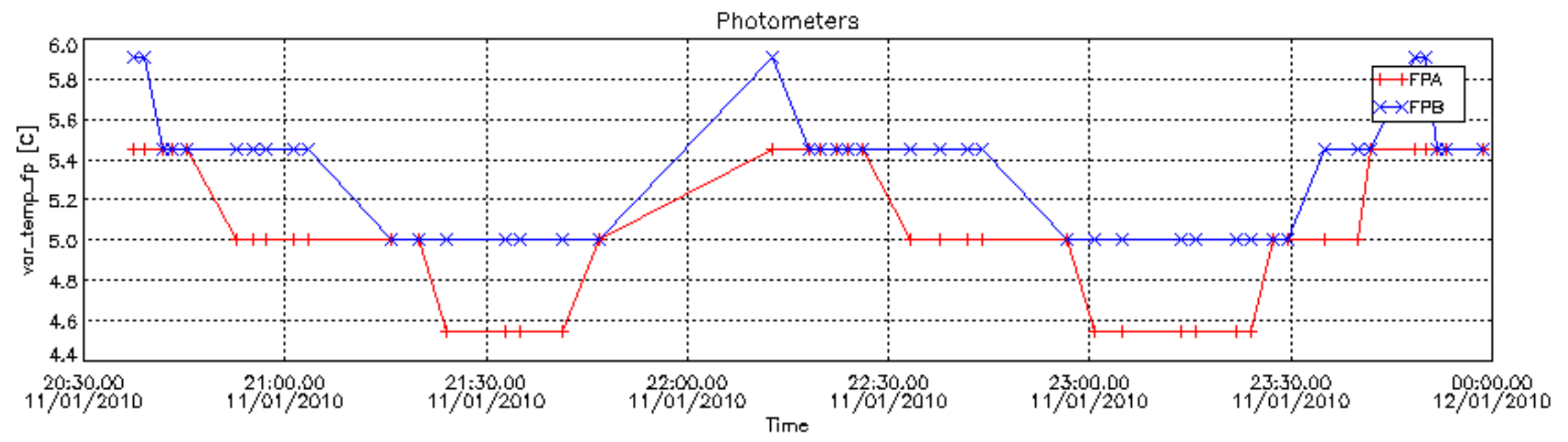
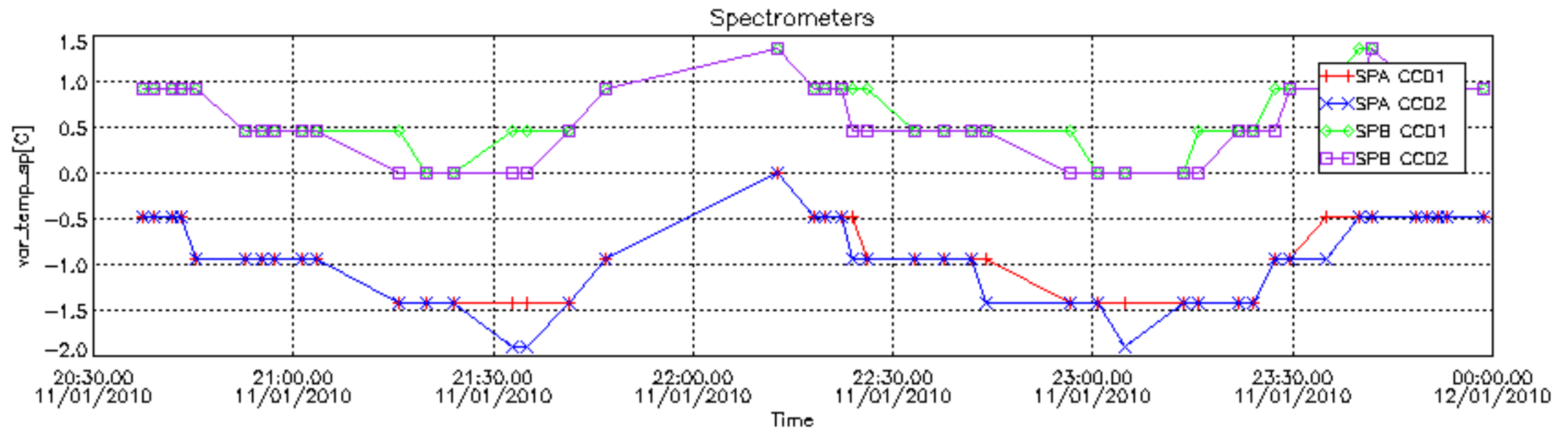


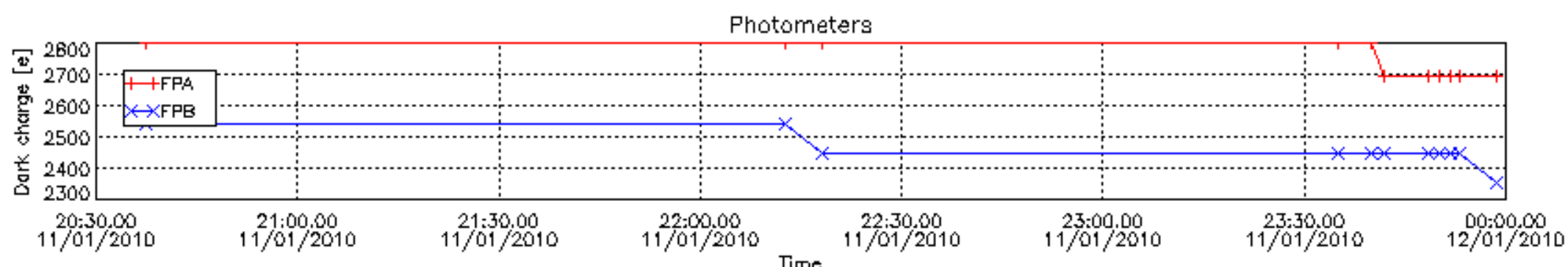
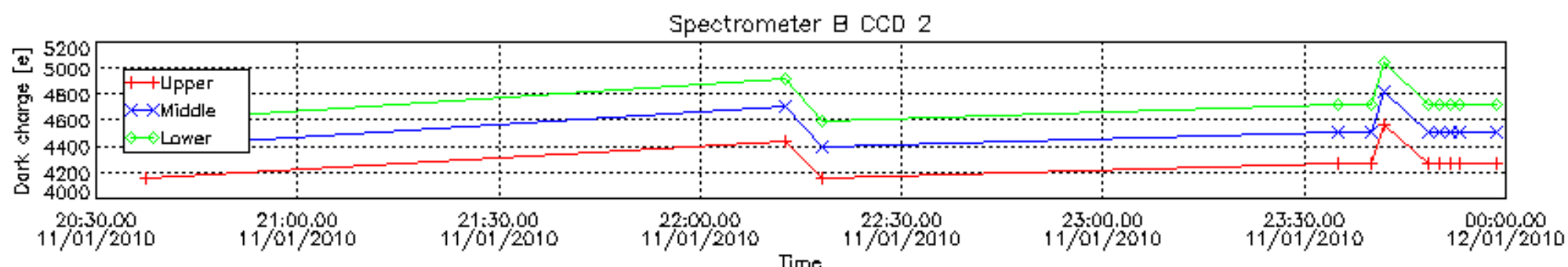
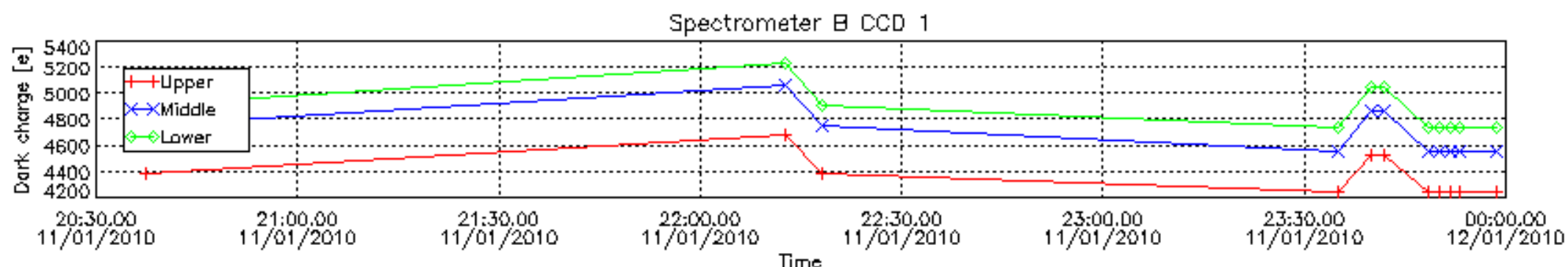
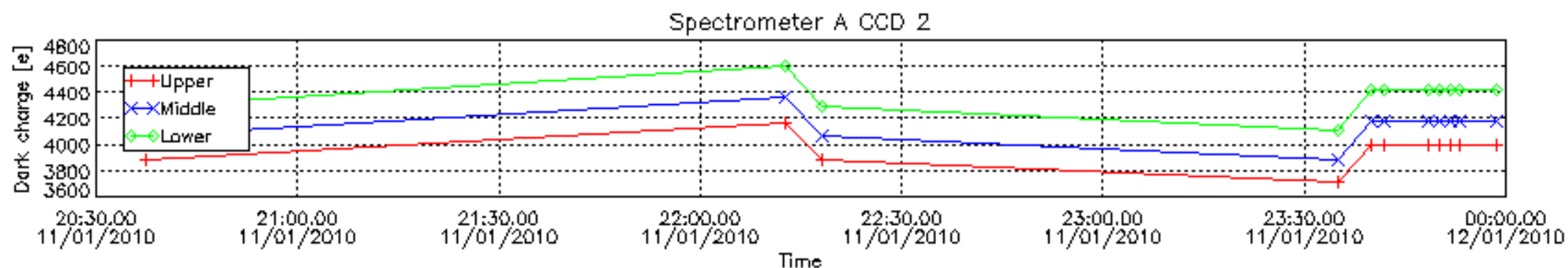
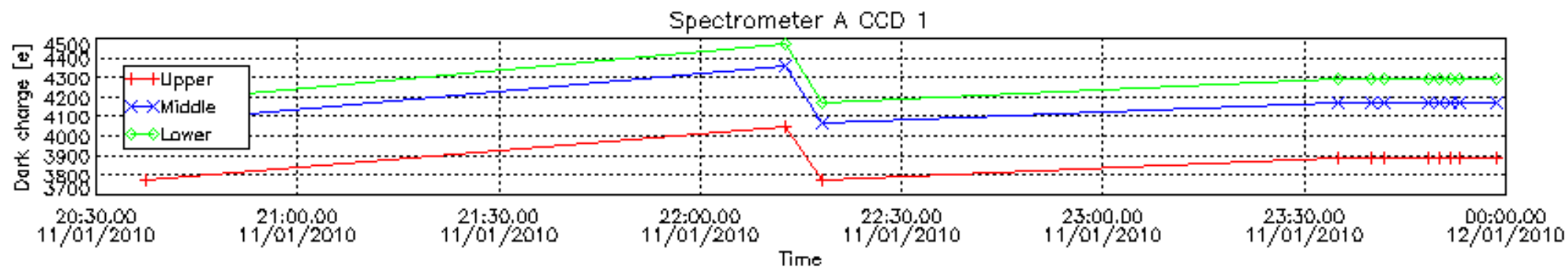
8. Auxiliary Data Files used for the production reported in section 2.4

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.

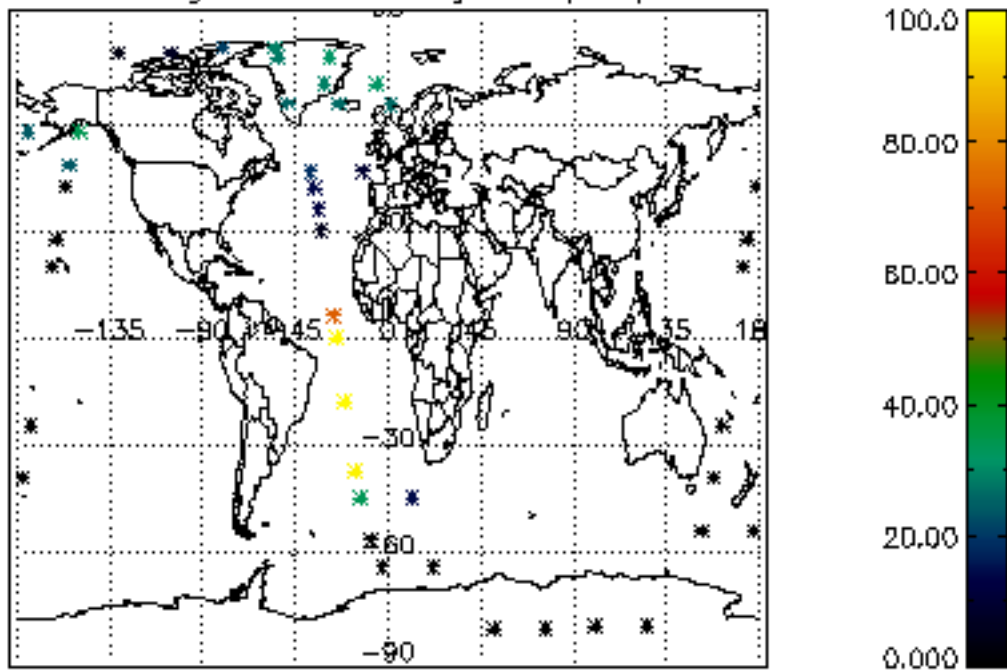
| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000 | 1 | 11-JAN-2010 20:37:24 |
| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20100105_102808_20100103_000000_20500101_000000 | 1 | 11-JAN-2010 20:37:24 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000 | 1 | 11-JAN-2010 20:37:24 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 11-JAN-2010 20:37:24 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000 | 1 | 11-JAN-2010 20:37:24 |
| ECMWF_FILE | AUX_ECF_AXNECM20100111_062112_20100111_150000_20100112_030000 | 1 | 11-JAN-2010 20:37:24 |
| ECMWF_FILE | AUX_ECF_AXNECM20100111_062113_20100111_210000_20100112_090000 | 18 | 11-JAN-2010 22:12:33 |
| OPTIONAL_ECMWF_FILE | MISSING | 1 | 11-JAN-2010 20:37:24 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20100111_203307_000038252085_00501_41136_9546.N1 | 1 | 11-JAN-2010 20:37:24 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20100111_220845_000041442086_00001_41137_9547.N1 | 18 | 11-JAN-2010 22:12:33 |
| ORBIT_DATA_FILE | AUX_FPO_AXVPDS20100111_110113_20100110_190949_20100120_203602 | 35 | 11-JAN-2010 23:27:26 |



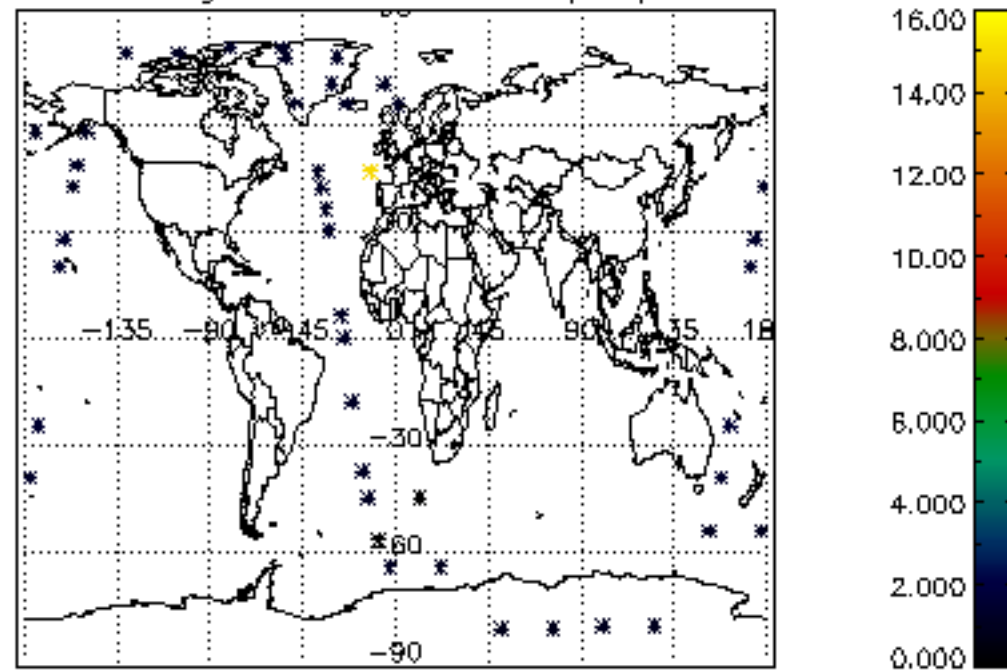




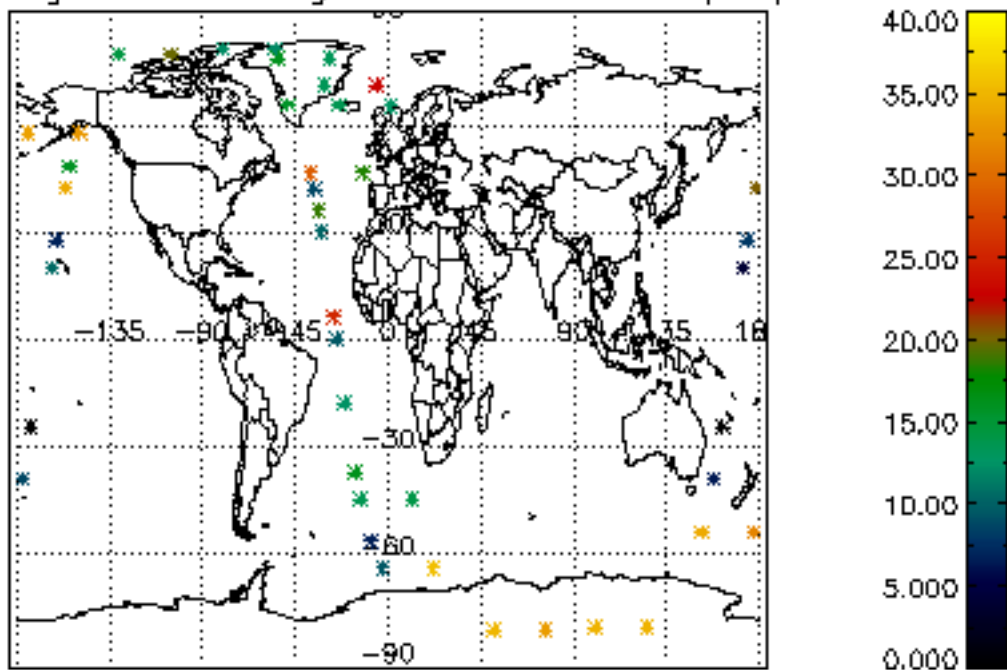
Percentage of cosmic ray hits per profile



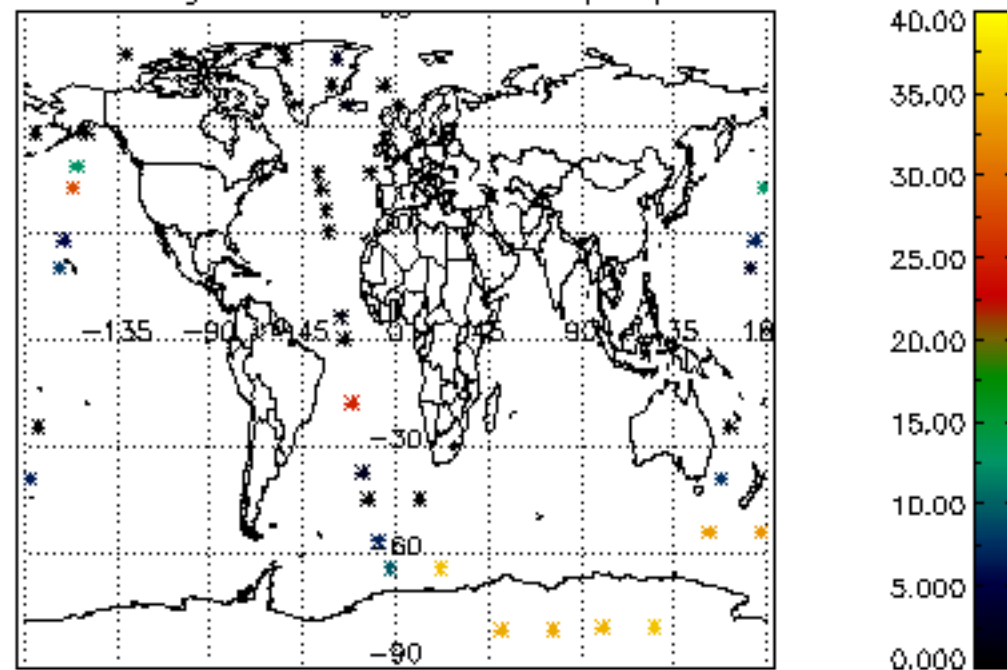
Percentage of datation errors per profile



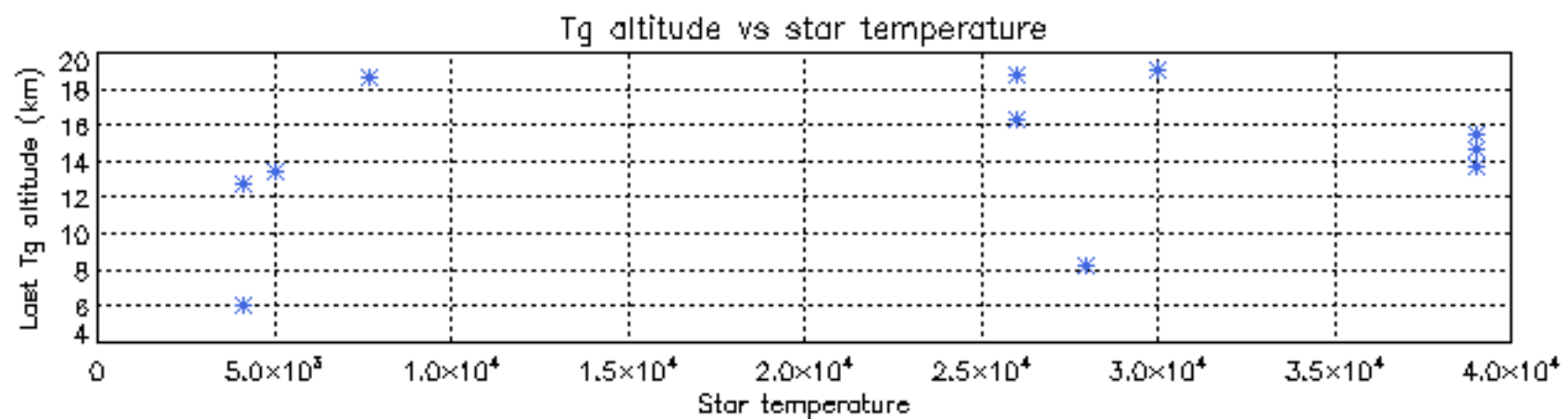
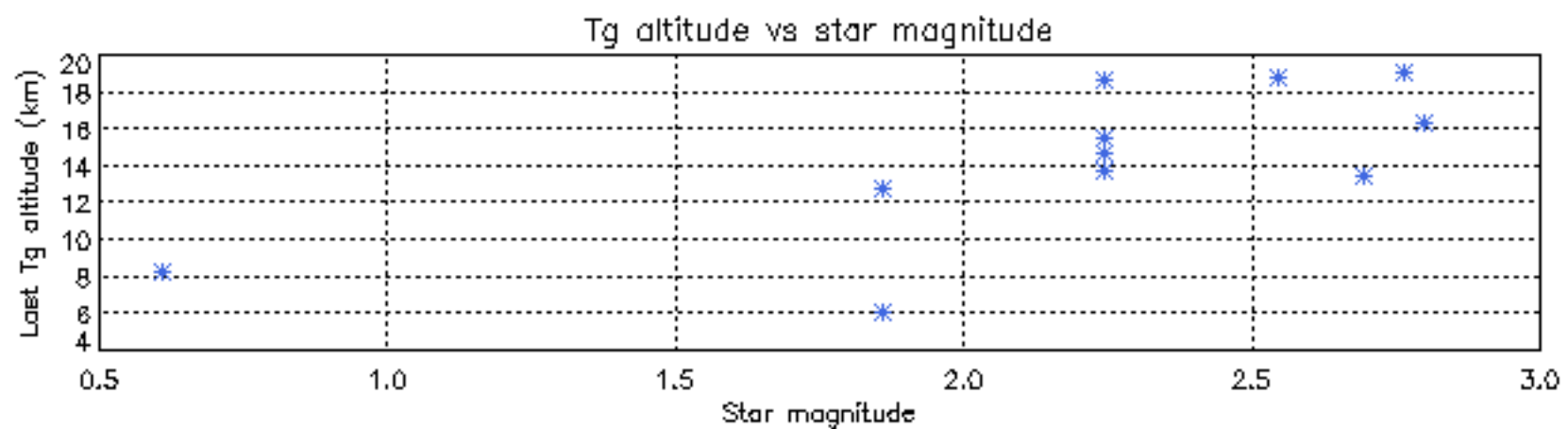
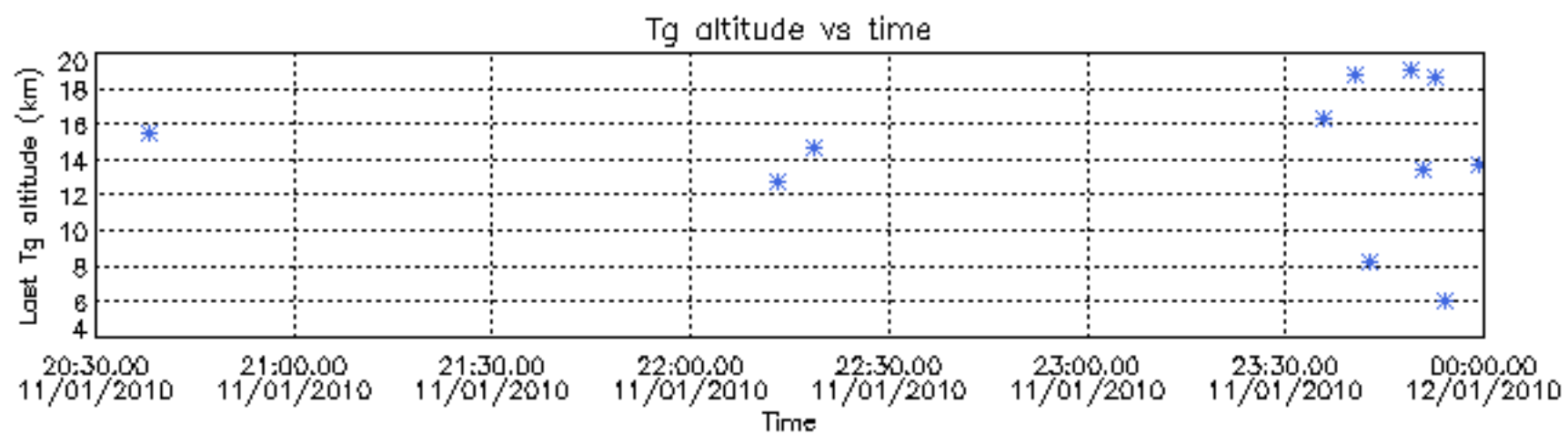
Percentage of star falling outside central band per profile



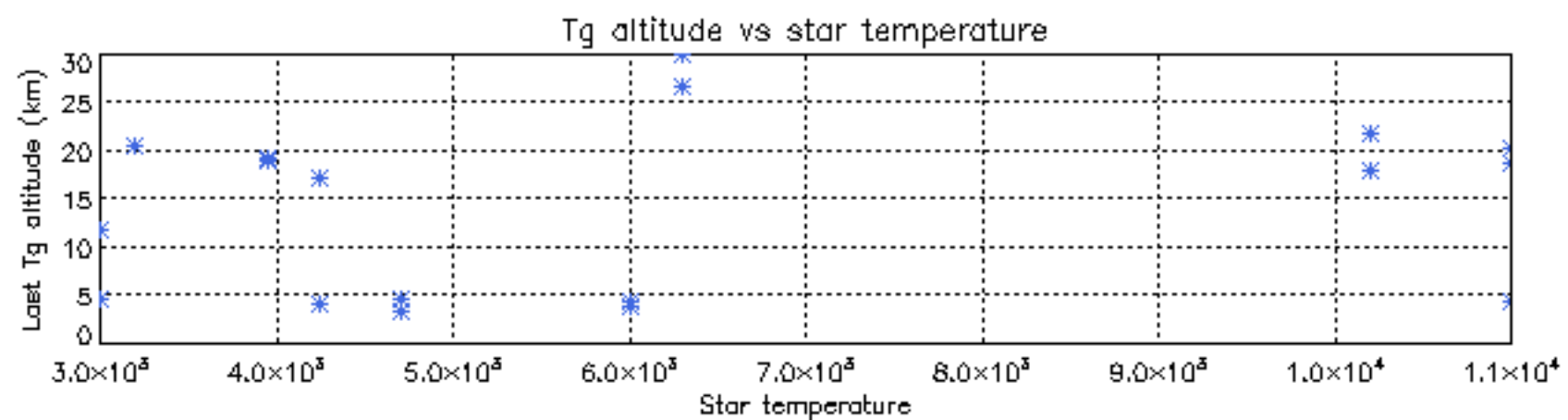
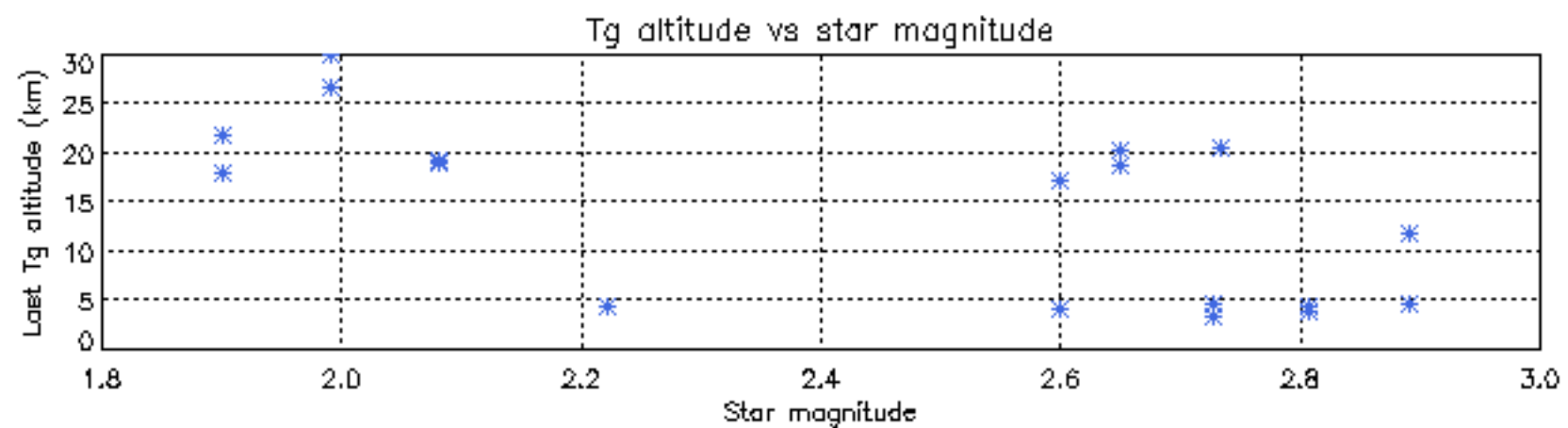
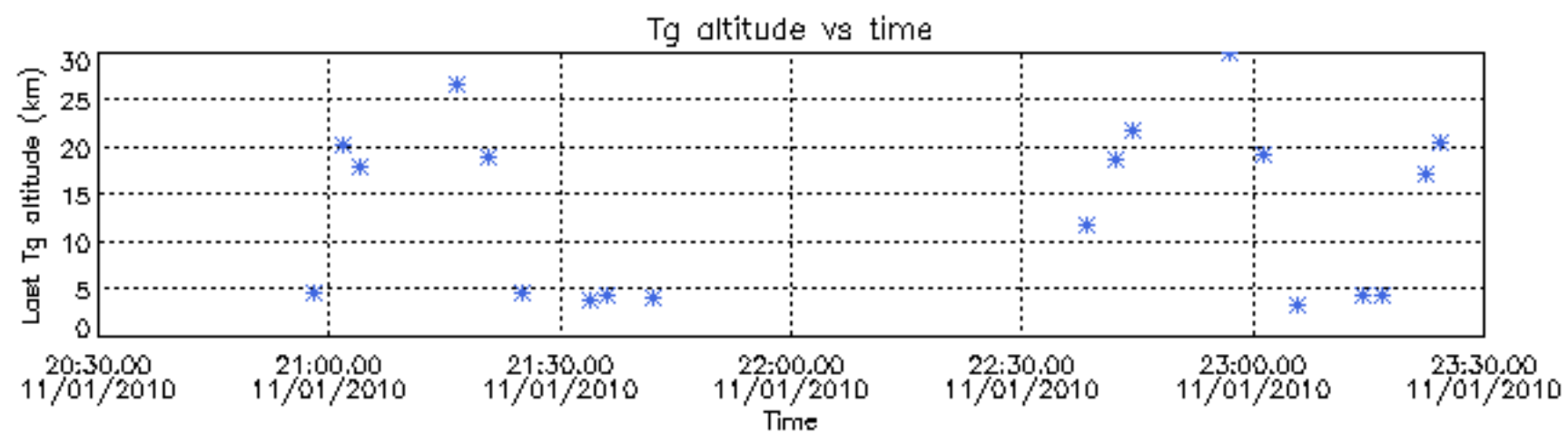
Percentage of saturation errors per profile

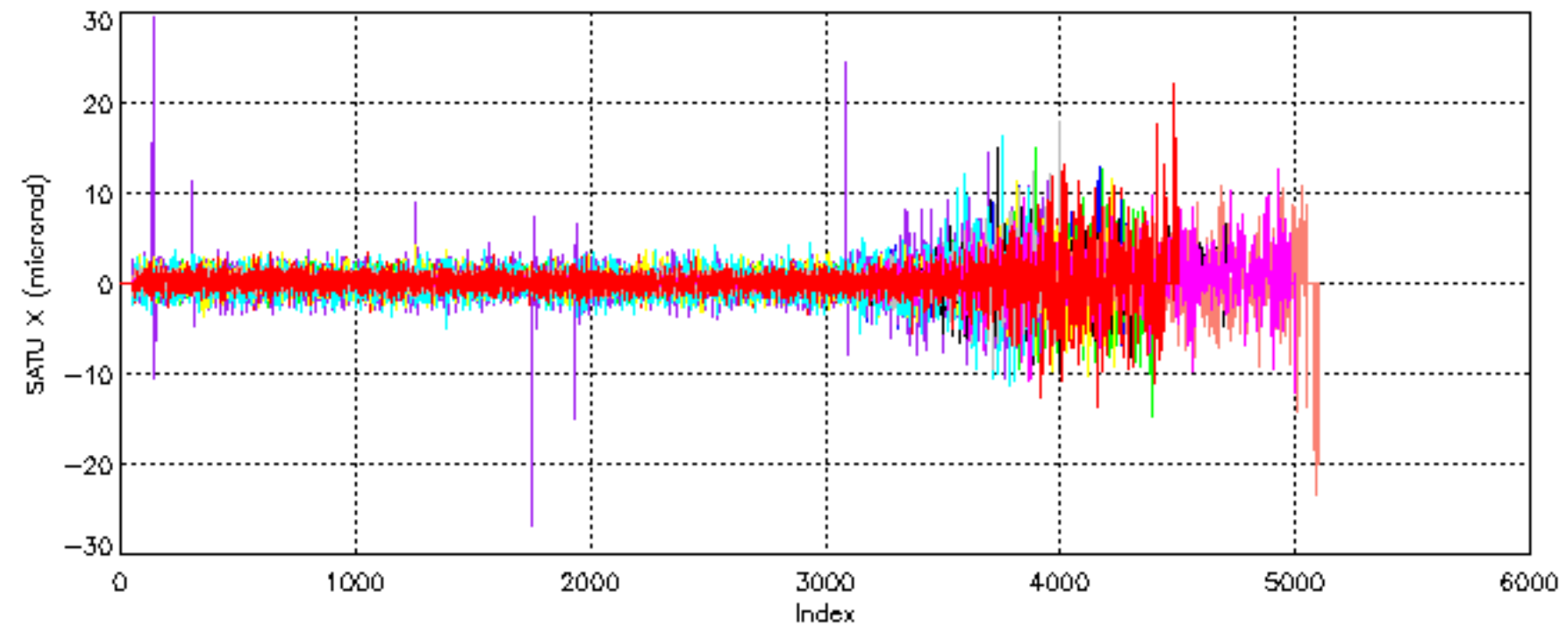


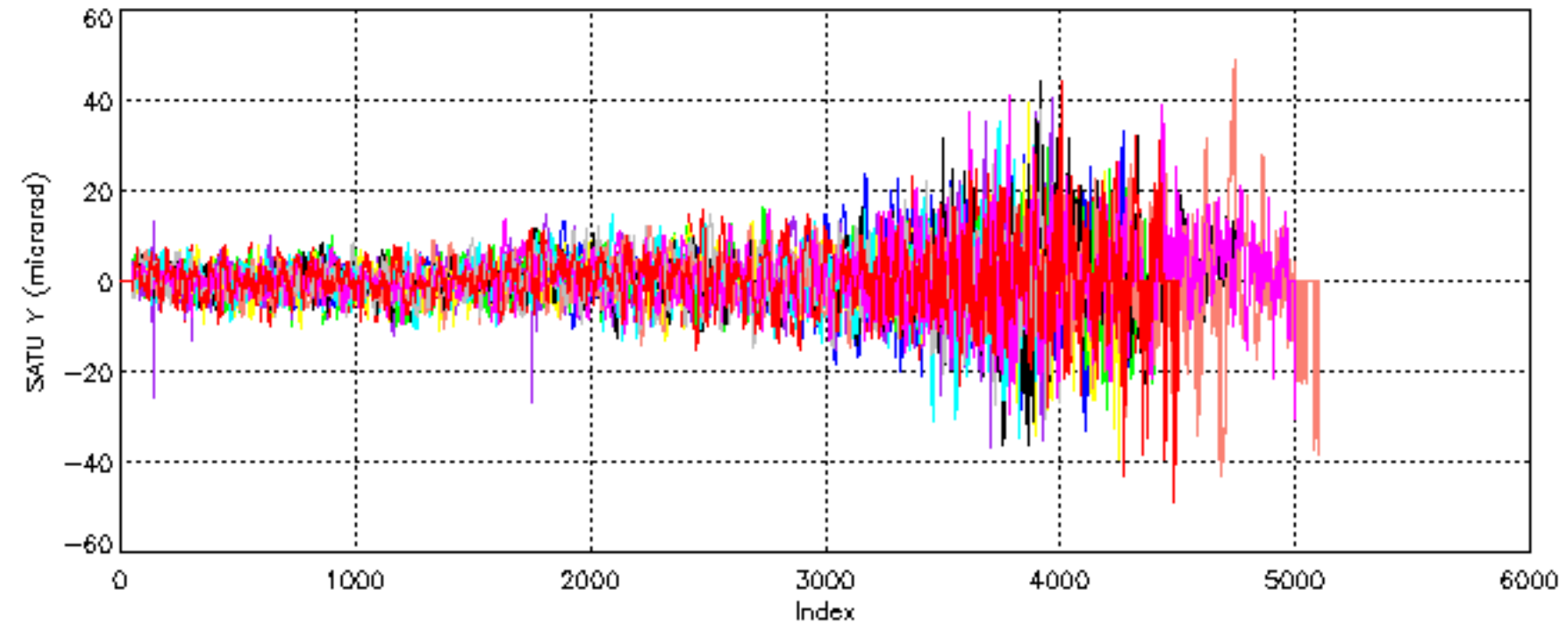
Tangent altitude at which the star is lost

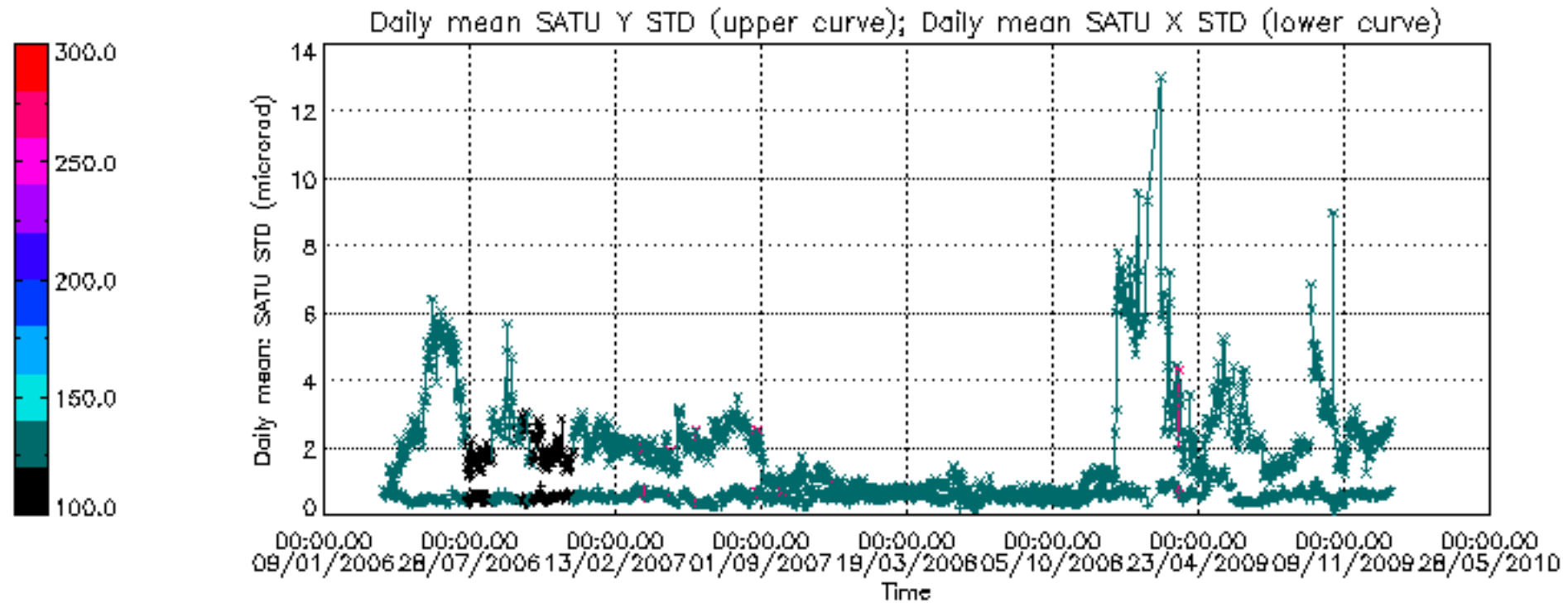


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100101_001436_000059322085_00345_40980_9243.N1

| | | | | | | | | | | | | | | | |
|-----|---------|-------------|-----------|---------|---|-------|------|-----------|---|--------|--------|------|------|----|-------|
| 1; | -682.4; | 01-JAN-2010 | 00:14:36; | Dark | ; | 43.0; | 122; | 9Alp2Lib | ; | 2.75; | 9700; | occ; | 86; | 0; | 40980 |
| 2; | -269.4; | 01-JAN-2010 | 00:21:29; | Dark | ; | 44.0; | 54; | 5The Cen | ; | 2.06; | 4500; | occ; | 88; | 0; | 40980 |
| 3; | -103.6; | 01-JAN-2010 | 00:24:15; | Dark | ; | 40.5; | 95; | Zet Cen | ; | 2.55; | 26000; | occ; | 81; | 0; | 40980 |
| 4; | 1.0; | 01-JAN-2010 | 00:26:00; | Dark | ; | 41.0; | 77; | Eps Cen | ; | 2.30; | 28000; | occ; | 82; | 0; | 40981 |
| 5; | 106.3; | 01-JAN-2010 | 00:27:45; | Dark | ; | 43.0; | 64; | Gam Cen | ; | 2.20; | 10600; | occ; | 86; | 0; | 40981 |
| 6; | 209.9; | 01-JAN-2010 | 00:29:28; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0; | occ; | 119; | 0; | 40981 |
| 7; | 476.2; | 01-JAN-2010 | 00:33:55; | Dark | ; | 46.5; | 113; | Mu Vel | ; | 2.69; | 5000; | occ; | 93; | 0; | 40981 |
| 8; | 630.5; | 01-JAN-2010 | 00:36:29; | Dark | ; | 49.0; | 71; | Iot Car | ; | 2.25; | 7700; | occ; | 98; | 0; | 40981 |
| 9; | 727.5; | 01-JAN-2010 | 00:38:06; | Dark | ; | 51.5; | 41; | Eps Car | ; | 1.86; | 4100; | occ; | 103; | 0; | 40981 |
| 10; | 916.1; | 01-JAN-2010 | 00:41:15; | Dark | ; | 46.0; | 34; | Gam2Vel | ; | 1.79; | 23000; | occ; | 92; | 0; | 40981 |
| 11; | 1047.9; | 01-JAN-2010 | 00:43:26; | Dark | ; | 45.0; | 70; | Zet Pup | ; | 2.25; | 39000; | occ; | 90; | 0; | 40981 |
| 12; | 1172.3; | 01-JAN-2010 | 00:45:31; | Dark | ; | 47.0; | 117; | Pi Pup | ; | 2.71; | 3800; | occ; | 94; | 0; | 40981 |
| 13; | 1340.4; | 01-JAN-2010 | 00:48:19; | Dark | ; | 45.5; | 23; | 21Eps CMA | ; | 1.50; | 26000; | occ; | 91; | 0; | 40981 |
| 14; | 1433.2; | 01-JAN-2010 | 00:49:52; | Dark | ; | 44.0; | 179; | 240mi2CMA | ; | 3.03; | 24000; | occ; | 88; | 0; | 40981 |
| 15; | 1581.4; | 01-JAN-2010 | 00:52:20; | Dark | ; | 45.0; | 1; | 9Alp CMA | ; | -1.44; | 11000; | occ; | 90; | 0; | 40981 |
| 16; | 1730.7; | 01-JAN-2010 | 00:54:49; | Dark | ; | 36.0; | 56; | 53Kap Ori | ; | 2.07; | 30000; | occ; | 72; | 0; | 40981 |
| 17; | 1881.4; | 01-JAN-2010 | 00:57:20; | Dark | ; | 41.5; | 30; | 46Eps Ori | ; | 1.69; | 30000; | occ; | 83; | 0; | 40981 |
| 18; | 2032.7; | 01-JAN-2010 | 00:59:51; | Dark | ; | 55.0; | 14; | 58Alp Ori | ; | 0.87; | 3000; | occ; | 110; | 0; | 40981 |
| 19; | 2229.2; | 01-JAN-2010 | 01:03:08; | Dark | ; | 53.0; | 44; | 24Gam Gem | ; | 1.93; | 11000; | occ; | 106; | 0; | 40981 |
| 20; | 2327.3; | 01-JAN-2010 | 01:04:46; | Bright; | ; | 44.0; | 151; | 13Mu Gem | ; | 2.89; | 3000; | occ; | 88; | 0; | 40981 |
| 21; | 2566.8; | 01-JAN-2010 | 01:08:45; | Bright; | ; | 39.5; | 107; | 37The Aur | ; | 2.65; | 11000; | occ; | 79; | 0; | 40981 |
| 22; | 2692.3; | 01-JAN-2010 | 01:10:51; | Bright; | ; | 42.0; | 6; | 13Alp Aur | ; | 0.08; | 3400; | occ; | 84; | 0; | 40981 |
| 23; | 3691.0; | 01-JAN-2010 | 01:27:30; | Bright; | ; | 39.5; | 60; | 7Bet UMi | ; | 2.08; | 3950; | occ; | 79; | 0; | 40981 |
| 24; | 3911.7; | 01-JAN-2010 | 01:31:10; | Bright; | ; | 50.5; | 32; | 77Eps UMa | ; | 1.76; | 11000; | occ; | 101; | 0; | 40981 |
| 25; | 4108.8; | 01-JAN-2010 | 01:34:27; | Bright; | ; | 66.0; | 39; | 85Eta UMa | ; | 1.85; | 24000; | occ; | 132; | 0; | 40981 |
| 26; | 4353.0; | 01-JAN-2010 | 01:38:32; | Bright; | ; | 40.5; | 180; | 27Gam Boo | ; | 3.04; | 8000; | occ; | 81; | 0; | 40981 |
| 27; | 4574.5; | 01-JAN-2010 | 01:42:13; | Bright; | ; | 62.0; | 83; | | ; | 2.38; | 11000; | occ; | 124; | 0; | 40981 |
| 28; | 4770.9; | 01-JAN-2010 | 01:45:29; | Bright; | ; | 53.5; | 3; | 16Alp Boo | ; | -0.05; | 4250; | occ; | 107; | 0; | 40981 |
| 29; | 5194.3; | 01-JAN-2010 | 01:52:33; | Bright; | ; | 55.5; | 104; | 27Bet Lib | ; | 2.61; | 13100; | occ; | 111; | 0; | 40981 |

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100101_015236_000045682085_00346_40981_9244.N1

| | | | | | | | | | | | | | | | |
|-----|---------|-------------|-----------|---------|---|-------|------|-----------|---|--------|--------|------|------|----|-------|
| 1; | -838.1; | 01-JAN-2010 | 01:52:36; | Bright; | ; | 56.0; | 104; | 27Bet Lib | ; | 2.61; | 13100; | occ; | 112; | 7; | 40981 |
| 2; | -681.9; | 01-JAN-2010 | 01:55:13; | Dark | ; | 43.5; | 122; | 9Alp2Lib | ; | 2.75; | 9700; | occ; | 87; | 0; | 40981 |
| 3; | -268.9; | 01-JAN-2010 | 02:02:06; | Dark | ; | 54.0; | 54; | 5The Cen | ; | 2.06; | 4500; | occ; | 108; | 0; | 40981 |
| 4; | -102.9; | 01-JAN-2010 | 02:04:52; | Dark | ; | 39.5; | 95; | Zet Cen | ; | 2.55; | 26000; | occ; | 79; | 0; | 40981 |
| 5; | 1.6; | 01-JAN-2010 | 02:06:36; | Dark | ; | 39.5; | 77; | Eps Cen | ; | 2.30; | 28000; | occ; | 79; | 0; | 40982 |
| 6; | 107.0; | 01-JAN-2010 | 02:08:22; | Dark | ; | 44.0; | 64; | Gam Cen | ; | 2.20; | 10600; | occ; | 88; | 0; | 40982 |
| 7; | 210.8; | 01-JAN-2010 | 02:10:05; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0; | occ; | 119; | 0; | 40982 |
| 8; | 477.2; | 01-JAN-2010 | 02:14:32; | Dark | ; | 48.0; | 113; | Mu Vel | ; | 2.69; | 5000; | occ; | 96; | 0; | 40982 |
| 9; | 631.0; | 01-JAN-2010 | 02:17:05; | Dark | ; | 41.0; | 71; | Iot Car | ; | 2.25; | 7700; | occ; | 82; | 0; | 40982 |
| 10; | 745.4; | 01-JAN-2010 | 02:19:00; | Dark | ; | 46.0; | 46; | Del Vel | ; | 1.95; | 10600; | occ; | 92; | 0; | 40982 |
| 11; | 916.7; | 01-JAN-2010 | 02:21:51; | Dark | ; | 46.0; | 34; | Gam2Vel | ; | 1.79; | 23000; | occ; | 92; | 0; | 40982 |
| 12; | 1048.4; | 01-JAN-2010 | 02:24:03; | Dark | ; | 48.5; | 70; | Zet Pup | ; | 2.25; | 39000; | occ; | 97; | 0; | 40982 |
| 13; | 1172.7; | 01-JAN-2010 | 02:26:07; | Dark | ; | 48.0; | 117; | Pi Pup | ; | 2.71; | 3800; | occ; | 96; | 0; | 40982 |
| 14; | 1340.9; | 01-JAN-2010 | 02:28:55; | Dark | ; | 46.5; | 23; | 21Eps CMA | ; | 1.50; | 26000; | occ; | 93; | 0; | 40982 |
| 15; | 1433.4; | 01-JAN-2010 | 02:30:28; | Dark | ; | 45.0; | 179; | 240mi2CMA | ; | 3.03; | 24000; | occ; | 90; | 0; | 40982 |
| 16; | 1581.5; | 01-JAN-2010 | 02:32:56; | Dark | ; | 39.5; | 1; | 9Alp CMA | ; | -1.44; | 11000; | occ; | 79; | 0; | 40982 |
| 17; | 1731.0; | 01-JAN-2010 | 02:35:25; | Dark | ; | 41.5; | 56; | 53Kap Ori | ; | 2.07; | 30000; | occ; | 83; | 0; | 40982 |
| 18; | 1881.3; | 01-JAN-2010 | 02:37:56; | Dark | ; | 41.5; | 30; | 46Eps Ori | ; | 1.69; | 30000; | occ; | 83; | 0; | 40982 |
| 19; | 2032.7; | 01-JAN-2010 | 02:40:27; | Dark | ; | 50.5; | 14; | 58Alp Ori | ; | 0.87; | 3000; | occ; | 101; | 0; | 40982 |
| 20; | 2228.8; | 01-JAN-2010 | 02:43:43; | Dark | ; | 50.0; | 44; | 24Gam Gem | ; | 1.93; | 11000; | occ; | 100; | 0; | 40982 |
| 21; | 2327.1; | 01-JAN-2010 | 02:45:22; | Bright; | ; | 46.5; | 151; | 13Mu Gem | ; | 2.89; | 3000; | occ; | 93; | 0; | 40982 |
| 22; | 2566.5; | 01-JAN-2010 | 02:49:21; | Bright; | ; | 39.5; | 107; | 37The Aur | ; | 2.65; | 11000; | occ; | 79; | 0; | 40982 |
| 23; | 2692.2; | 01-JAN-2010 | 02:51:27; | Bright; | ; | 42.5; | 6; | 13Alp Aur | ; | 0.08; | 3400; | occ; | 85; | 0; | 40982 |
| 24; | 3690.9; | 01-JAN-2010 | 03:08:05; | Bright; | ; | 39.5; | 60; | 7Bet UMi | ; | 2.08; | 3950; | occ; | 79; | 0; | 40982 |

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100101_031146_000058312085_00347_40982_9245.N1

| | | | | | | | | | | | | | | | |
|-----|----------|-------------|-----------|---------|---|-------|------|-----------|---|--------|--------|------|------|----|-------|
| 1; | -2124.7; | 01-JAN-2010 | 03:11:46; | Bright; | ; | 52.0; | 32; | 77Eps UMa | ; | 1.76; | 11000; | occ; | 104; | 0; | 40982 |
| 2; | -1927.2; | 01-JAN-2010 | 03:15:03; | Bright; | ; | 66.0; | 39; | 85Eta UMa | ; | 1.85; | 24000; | occ; | 132; | 0; | 40982 |
| 3; | -1682.7; | 01-JAN-2010 | 03:19:08; | Bright; | ; | 62.0; | 180; | 27Gam Boo | ; | 3.04; | 8000; | occ; | 124; | 0; | 40982 |
| 4; | -1461.4; | 01-JAN-2010 | 03:22:49; | Bright; | ; | 42.0; | 83; | | ; | 2.38; | 11000; | occ; | 84; | 0; | 40982 |
| 5; | -1264.5; | 01-JAN-2010 | 03:26:06; | Bright; | ; | 53.5; | 3; | 16Alp Boo | ; | -0.05; | 4250; | occ; | 107; | 0; | 40982 |
| 6; | -1145.0; | 01-JAN-2010 | 03:28:05; | Bright; | ; | 35.0; | 102; | 24Alp Ser | ; | 2.60; | 4250; | occ; | 70; | 0; | 40982 |
| 7; | -841.1; | 01-JAN-2010 | 03:33:09; | Bright; | ; | 45.0; | 104; | 27Bet Lib | ; | 2.61; | 13100; | occ; | 90; | 0; | 40982 |
| 8; | -681.3; | 01-JAN-2010 | 03:35:49; | Dark | ; | 44.5; | 122; | 9Alp2Lib | ; | 2.75; | 9700; | occ; | 89; | 0; | 40982 |
| 9; | -267.8; | 01-JAN-2010 | 03:42:43; | Dark | ; | 47.5; | 54; | 5The Cen | ; | 2.06; | 4500; | occ; | 95; | 0; | 40982 |
| 10; | -102.3; | 01-JAN-2010 | 03:45:28; | Dark | ; | 38.5; | 95; | Zet Cen | ; | 2.55; | 26000; | occ; | 77; | 0; | 40982 |
| 11; | 2.3; | 01-JAN-2010 | 03:47:13; | Dark | ; | 40.0; | 77; | Eps Cen | ; | 2.30; | 28000; | occ; | 80; | 0; | 40983 |
| 12; | 108.1; | 01-JAN-2010 | 03:48:59; | Dark | ; | 46.0; | 64; | Gam Cen | ; | 2.20; | 10600; | occ; | 92; | 0; | 40983 |

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13; 211.7; 01-JAN-2010 03:50:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40983
14; 478.3; 01-JAN-2010 03:55:09; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40983
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| 9; | -671.7; | 02-JAN-2010 | 06:25:34; | Dark | ; | 45.0; | 122; | 9Alp2Lib | ; | 2.75; | 9700;occ; | 90; | 0;40998 |
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| 4; | 2223.4; | 02-JAN-2010 | 07:13:49; | Dark | ; | 45.5; | 44; | 24Gam Gem | ; | 1.93; | 11000;occ; | 91; | 0;40999 |
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23; 6976.7; 04-JAN-2010 10:51:00; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;41029
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27; 7480.0; 04-JAN-2010 10:59:23; Dark ; 43.5; 179; 240mi2CMa ; 3.03; 24000;occ; 87; 0;41029
28; 7623.3; 04-JAN-2010 11:01:47; Dark ; 17.0; 1; 9Alp CMa ; -1.44; 11000;occ; 34; 0;41029

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23; 7108.3; 04-JAN-2010 12:33:48; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;41030
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25; 7389.9; 04-JAN-2010 12:38:29; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;41030
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8; 3954.8; 04-JAN-2010 13:21:50; Bright; 47.0; 55; 79Zet UMa ; 2.06; 10200;occ; 94; 0;41031
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13; 5385.6; 04-JAN-2010 13:45:41; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;41031
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| 6; | 681.7; | 07-JAN-2010 | 22:36:37; | Dark | ; | 42.0; | 71; | Iot Car | ; | 2.25; | 7700;occ; | 84; | 0; | 41080 |
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| 22; | 3924.5; | 07-JAN-2010 | 23:30:40; | Bright; | ; | 38.5; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ; | 77; | 0; | 41080 |
| 23; | 4437.5; | 07-JAN-2010 | 23:39:13; | Bright; | ; | 33.0; | 133; | 40Zet Her | ; | 2.81; | 6000;occ; | 66; | 0; | 41080 |
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| 4; | 82.4; | 08-JAN-2010 | 00:07:14; | Dark | ; | 50.0; | 10; | Bet Cen | ; | 0.61; | 28000;occ; | 100; | 0; | 41081 |
| 5; | 223.3; | 08-JAN-2010 | 00:09:35; | Dark | ; | 40.5; | 20; | Bet Cru | ; | 1.25; | 30000;occ; | 81; | 0; | 41081 |
| 6; | 303.5; | 08-JAN-2010 | 00:10:55; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0;occ; | 119; | 0; | 41081 |
| 7; | 481.9; | 08-JAN-2010 | 00:13:53; | Dark | ; | 38.5; | 124; | The Car | ; | 2.76; | 30000;occ; | 77; | 0; | 41081 |
| 8; | 574.7; | 08-JAN-2010 | 00:15:26; | Dark | ; | 40.0; | 159; | Ups Car | ; | 2.92; | 7200;occ; | 80; | 0; | 41081 |
| 9; | 682.1; | 08-JAN-2010 | 00:17:14; | Dark | ; | 44.0; | 71; | Iot Car | ; | 2.25; | 7700;occ; | 88; | 0; | 41081 |
| 10; | 767.6; | 08-JAN-2010 | 00:18:39; | Dark | ; | 46.5; | 41; | Eps Car | ; | 1.86; | 4100;occ; | 93; | 0; | 41081 |
| 11; | 963.8; | 08-JAN-2010 | 00:21:55; | Dark | ; | 43.0; | 34; | Gam2Vel | ; | 1.79; | 23000;occ; | 86; | 0; | 41081 |
| 12; | 1094.6; | 08-JAN-2010 | 00:24:06; | Dark | ; | 42.0; | 70; | Zet Pup | ; | 2.25; | 39000;occ; | 84; | 0; | 41081 |
| 13; | 1206.1; | 08-JAN-2010 | 00:25:58; | Dark | ; | 46.0; | 117; | Pi Pup | ; | 2.71; | 3800;occ; | 92; | 0; | 41081 |
| 14; | 1366.0; | 08-JAN-2010 | 00:28:38; | Dark | ; | 44.0; | 23; | 21Eps CMA | ; | 1.50; | 26000;occ; | 88; | 0; | 41081 |
| 15; | 1454.4; | 08-JAN-2010 | 00:30:06; | Dark | ; | 42.0; | 179; | 240mi2CMA | ; | 3.03; | 24000;occ; | 84; | 0; | 41081 |
| 16; | 1593.9; | 08-JAN-2010 | 00:32:25; | Dark | ; | 46.0; | 1; | 9Alp CMA | ; | -1.44; | 11000;occ; | 92; | 0; | 41081 |
| 17; | 2031.2; | 08-JAN-2010 | 00:39:43; | Dark | ; | 53.0; | 14; | 58Alp Ori | ; | 0.87; | 3000;occ; | 106; | 0; | 41081 |
| 18; | 2202.7; | 08-JAN-2010 | 00:42:34; | Dark | ; | 47.5; | 44; | 24Gam Gem | ; | 1.93; | 11000;occ; | 95; | 0; | 41081 |
| 19; | 2303.4; | 08-JAN-2010 | 00:44:15; | Bright; | ; | 44.5; | 151; | 13Mu Gem | ; | 2.89; | 3000;occ; | 89; | 0; | 41081 |
| 20; | 2395.0; | 08-JAN-2010 | 00:45:47; | Bright; | ; | 39.0; | 28; | 12Bet Tau | ; | 1.65; | 15200;occ; | 78; | 0; | 41081 |
| 21; | 2680.7; | 08-JAN-2010 | 00:50:32; | Bright; | ; | 38.5; | 42; | 34Bet Aur | ; | 1.90; | 10200;occ; | 77; | 0; | 41081 |
| 22; | 3424.1; | 08-JAN-2010 | 01:02:56; | Bright; | ; | 33.0; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 66; | 0; | 41081 |
| 23; | 4924.4; | 08-JAN-2010 | 01:27:56; | Bright; | ; | 57.0; | 102; | 24Alp Ser | ; | 2.60; | 4250;occ; | 114; | 0; | 41081 |
| 24; | 5058.1; | 08-JAN-2010 | 01:30:10; | Bright; | ; | 52.5; | 120; | 1Del Oph | ; | 2.73; | 3200;occ; | 105; | 0; | 41081 |

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| 1; | 2031.0; | 07-JAN-2010 | 07:53:43; | Dark | ; | 48.0; | 14; | 58Alp Ori | ; | 0.87; | 3000;occ; | 96; | 0; | 41071 |
| 2; | 2204.9; | 07-JAN-2010 | 07:56:37; | Dark | ; | 46.0; | 44; | 24Gam Gem | ; | 1.93; | 11000;occ; | 92; | 0; | 41071 |
| 3; | 2305.2; | 07-JAN-2010 | 07:58:18; | Bright; | ; | 45.5; | 151; | 13Mu Gem | ; | 2.89; | 3000;occ; | 91; | 0; | 41071 |
| 4; | 2549.5; | 07-JAN-2010 | 08:02:22; | Bright; | ; | 38.0; | 107; | 37The Aur | ; | 2.65; | 11000;occ; | 76; | 0; | 41071 |
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| 6; | 3681.0; | 07-JAN-2010 | 08:21:13; | Bright; | ; | 34.0; | 60; | 7Bet UMi | ; | 2.08; | 3950;occ; | 68; | 0; | 41071 |
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| 8; | 4087.2; | 07-JAN-2010 | 08:27:59; | Bright; | ; | 52.5; | 39; | 85Eta UMa | ; | 1.85; | 24000;occ; | 105; | 0; | 41071 |
| 9; | 4355.1; | 07-JAN-2010 | 08:32:27; | Bright; | ; | 43.5; | 180; | 27Gam Boo | ; | 3.04; | 8000;occ; | 87; | 0; | 41071 |
| 10; | 4594.8; | 07-JAN-2010 | 08:36:27; | Bright; | ; | 67.0; | 83; | | ; | 2.38; | 11000;occ; | 134; | 0; | 41071 |
| 11; | 4920.7; | 07-JAN-2010 | 08:41:53; | Bright; | ; | 56.0; | 102; | 24Alp Ser | ; | 2.60; | 4250;occ; | 112; | 0; | 41071 |
| 12; | 5241.0; | 07-JAN-2010 | 08:47:13; | Dark | ; | 31.5; | 104; | 27Bet Lib | ; | 2.61; | 13100;occ; | 63; | 0; | 41071 |
| 13; | 5413.9; | 07-JAN-2010 | 08:50:06; | Dark | ; | 46.0; | 122; | 9Alp2Lib | ; | 2.75; | 9700;occ; | 92; | 0; | 41071 |
| 14; | 5838.0; | 07-JAN-2010 | 08:57:10; | Dark | ; | 49.5; | 54; | 5The Cen | ; | 2.06; | 4500;occ; | 99; | 0; | 41071 |

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 18; 6330.9; 07-JAN-2010 09:05:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41071
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 21; 6827.7; 07-JAN-2010 09:13:40; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;41071
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 13; 5415.0; 07-JAN-2010 10:30:43; Dark ; 46.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 92; 0;41072
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 16; 6092.3; 07-JAN-2010 10:42:01; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;41072
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 9; 4086.8; 07-JAN-2010 11:49:11; Bright; 50.0; 39; 85Eta UMa ; 1.85; 24000;occ; 100; 0;41073
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 11; 4595.4; 07-JAN-2010 11:57:40; Bright; 67.0; 83; ; 2.38; 11000;occ; 134; 0;41073
 12; 4921.4; 07-JAN-2010 12:03:06; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;41073
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 22; 6828.6; 07-JAN-2010 12:34:53; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41073
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3; 2204.1; 07-JAN-2010 12:58:24; Dark ; 45.5; 44; 24Gam Gem ; 1.93; 11000;occ; 91; 0;41074
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7; 3680.4; 07-JAN-2010 13:23:00; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;41074
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9; 4086.4; 07-JAN-2010 13:29:46; Bright; 45.0; 39; 85Eta UMa ; 1.85; 24000;occ; 90; 0;41074
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13; 5242.7; 07-JAN-2010 13:49:03; Dark ; 47.0; 104; 27Bet Lib ; 2.61; 13100;occ; 94; 0;41074
14; 5416.2; 07-JAN-2010 13:51:56; Dark ; 47.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 94; 0;41074
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| 15; | 683.8; | 08-JAN-2010 | 05:19:03; | Dark | ; | 43.0; | 71; | Iot Car | ; | 2.25; | 7700;occ; | 86; | 0; | 41084 |
| 16; | 769.0; | 08-JAN-2010 | 05:20:28; | Dark | ; | 43.0; | 41; | Eps Car | ; | 1.86; | 4100;occ; | 86; | 0; | 41084 |
| 17; | 965.4; | 08-JAN-2010 | 05:23:45; | Dark | ; | 45.0; | 34; | Gam2Vel | ; | 1.79; | 23000;occ; | 90; | 0; | 41084 |
| 18; | 1095.6; | 08-JAN-2010 | 05:25:55; | Dark | ; | 44.0; | 70; | Zet Pup | ; | 2.25; | 39000;occ; | 88; | 0; | 41084 |
| 19; | 1207.1; | 08-JAN-2010 | 05:27:46; | Dark | ; | 44.0; | 117; | Pi Pup | ; | 2.71; | 3800;occ; | 88; | 0; | 41084 |
| 20; | 1366.9; | 08-JAN-2010 | 05:30:26; | Dark | ; | 44.0; | 23; | 21Eps CMA | ; | 1.50; | 26000;occ; | 88; | 0; | 41084 |
| 21; | 1455.1; | 08-JAN-2010 | 05:31:54; | Dark | ; | 43.5; | 179; | 24Omi2CMA | ; | 3.03; | 24000;occ; | 87; | 0; | 41084 |
| 22; | 1594.7; | 08-JAN-2010 | 05:34:14; | Dark | ; | 45.5; | 1; | 9Alp CMA | ; | -1.44; | 11000;occ; | 91; | 0; | 41084 |
| 23; | 2031.7; | 08-JAN-2010 | 05:41:31; | Dark | ; | 48.5; | 14; | 58Alp Ori | ; | 0.87; | 3000;occ; | 97; | 0; | 41084 |
| 24; | 2202.4; | 08-JAN-2010 | 05:44:22; | Dark | ; | 47.0; | 44; | 24Gam Gem | ; | 1.93; | 11000;occ; | 94; | 0; | 41084 |
| 25; | 2303.1; | 08-JAN-2010 | 05:46:02; | Bright; | 44.5; | 151; | 13Mu Gem | ; | 2.89; | 3000;occ; | 89; | 0; | 41084 | |
| 26; | 2395.4; | 08-JAN-2010 | 05:47:35; | Bright; | 38.5; | 28; | 12Bet Tau | ; | 1.65; | 15200;occ; | 77; | 0; | 41084 | |
| 27; | 2547.9; | 08-JAN-2010 | 05:50:07; | Bright; | 37.0; | 107; | 37The Aur | ; | 2.65; | 11000;occ; | 74; | 0; | 41084 | |
| 28; | 2680.7; | 08-JAN-2010 | 05:52:20; | Bright; | 38.5; | 42; | 34Bet Aur | ; | 1.90; | 10200;occ; | 77; | 0; | 41084 | |
| 29; | 3423.9; | 08-JAN-2010 | 06:04:43; | Bright; | 37.0; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 74; | 0; | 41084 | |
| 30; | 3678.9; | 08-JAN-2010 | 06:08:58; | Bright; | 6.0; | 60; | 7Bet UMi | ; | 2.08; | 3950;occ; | 12; | 0; | 41084 | |
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| 2; | -2111.4; | 08-JAN-2010 | 06:13:04; | Bright; | 37.0; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ; | 74; | 0; | 41084 | |
| 3; | -1597.5; | 08-JAN-2010 | 06:21:38; | Bright; | 52.0; | 133; | 40Zet Her | ; | 2.81; | 6000;occ; | 104; | 0; | 41084 | |
| 4; | -1470.3; | 08-JAN-2010 | 06:23:45; | Bright; | 58.0; | 67; | 5Alp CrB | ; | 2.22; | 11000;occ; | 116; | 0; | 41084 | |
| 5; | -1110.2; | 08-JAN-2010 | 06:29:45; | Bright; | 57.0; | 102; | 24Alp Ser | ; | 2.60; | 4250;occ; | 114; | 0; | 41084 | |
| 6; | -976.8; | 08-JAN-2010 | 06:31:59; | Bright; | 53.0; | 120; | 1Del Oph | ; | 2.73; | 3200;occ; | 106; | 0; | 41084 | |
| 7; | -787.6; | 08-JAN-2010 | 06:35:08; | Dark | ; | 45.0; | 104; | 27Bet Lib | ; | 2.61; | 13100;occ; | 90; | 0; | 41084 |
| 8; | -648.7; | 08-JAN-2010 | 06:37:27; | Dark | ; | 43.0; | 80; | 7Del Sco | ; | 2.32; | 30000;occ; | 86; | 0; | 41084 |
| 9; | -230.0; | 08-JAN-2010 | 06:44:25; | Dark | ; | 40.0; | 109; | Bet Lup | ; | 2.68; | 26000;occ; | 80; | 0; | 41084 |
| 10; | -140.0; | 08-JAN-2010 | 06:45:55; | Dark | ; | 42.0; | 78; | Alp Lup | ; | 2.30; | 28000;occ; | 84; | 0; | 41084 |
| 11; | -34.4; | 08-JAN-2010 | 06:47:41; | Dark | ; | 42.5; | 95; | Zet Cen | ; | 2.55; | 26000;occ; | 85; | 0; | 41084 |
| 12; | 84.3; | 08-JAN-2010 | 06:49:40; | Dark | ; | 42.5; | 10; | Bet Cen | ; | 0.61; | 28000;occ; | 85; | 0; | 41085 |
| 13; | 307.3; | 08-JAN-2010 | 06:53:23; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0;occ; | 119; | 0; | 41085 |
| 14; | 484.0; | 08-JAN-2010 | 06:56:19; | Dark | ; | 37.0; | 124; | The Car | ; | 2.76; | 30000;occ; | 74; | 0; | 41085 |
| 15; | 566.9; | 08-JAN-2010 | 06:57:42; | Dark | ; | 55.0; | 113; | Mu Vel | ; | 2.69; | 5000;occ; | 110; | 0; | 41085 |
| 16; | 769.3; | 08-JAN-2010 | 07:01:05; | Dark | ; | 44.0; | 41; | Eps Car | ; | 1.86; | 4100;occ; | 88; | 0; | 41085 |
| 17; | 965.8; | 08-JAN-2010 | 07:04:21; | Dark | ; | 42.5; | 34; | Gam2Vel | ; | 1.79; | 23000;occ; | 85; | 0; | 41085 |
| 18; | 1096.2; | 08-JAN-2010 | 07:06:32; | Dark | ; | 43.0; | 70; | Zet Pup | ; | 2.25; | 39000;occ; | 86; | 0; | 41085 |
| 19; | 1207.4; | 08-JAN-2010 | 07:08:23; | Dark | ; | 47.0; | 117; | Pi Pup | ; | 2.71; | 3800;occ; | 94; | 0; | 41085 |
| 20; | 1367.4; | 08-JAN-2010 | 07:11:03; | Dark | ; | 43.0; | 23; | 21Eps CMA | ; | 1.50; | 26000;occ; | 86; | 0; | 41085 |
| 21; | 1455.3; | 08-JAN-2010 | 07:12:31; | Dark | ; | 41.5; | 179; | 24Omi2CMA | ; | 3.03; | 24000;occ; | 83; | 0; | 41085 |
| 22; | 1594.7; | 08-JAN-2010 | 07:14:50; | Dark | ; | 48.5; | 1; | 9Alp CMA | ; | -1.44; | 11000;occ; | 97; | 0; | 41085 |
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| 2; | 2202.0; | 08-JAN-2010 | 07:24:57; | Dark | ; | 45.5; | 44; | 24Gam Gem | ; | 1.93; | 11000;occ; | 91; | 0; | 41085 |
| 3; | 2302.8; | 08-JAN-2010 | 07:26:38; | Bright; | 56.0; | 151; | 13Mu Gem | ; | 2.89; | 3000;occ; | 112; | 0; | 41085 | |
| 4; | 2395.5; | 08-JAN-2010 | 07:28:11; | Bright; | 39.0; | 28; | 12Bet Tau | ; | 1.65; | 15200;occ; | 78; | 0; | 41085 | |
| 5; | 2547.7; | 08-JAN-2010 | 07:30:43; | Bright; | 38.0; | 107; | 37The Aur | ; | 2.65; | 11000;occ; | 76; | 0; | 41085 | |
| 6; | 2680.5; | 08-JAN-2010 | 07:32:56; | Bright; | 38.0; | 42; | 34Bet Aur | ; | 1.90; | 10200;occ; | 76; | 0; | 41085 | |
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| 8; | 3678.8; | 08-JAN-2010 | 07:49:34; | Bright; | 35.0; | 60; | 7Bet UMi | ; | 2.08; | 3950;occ; | 70; | 0; | 41085 | |
| 9; | 3924.6; | 08-JAN-2010 | 07:53:40; | Bright; | 38.0; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ; | 76; | 0; | 41085 | |
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| 12; | 4926.2; | 08-JAN-2010 | 08:10:21; | Bright; | 57.0; | 102; | 24Alp Ser | ; | 2.60; | 4250;occ; | 114; | 0; | 41085 | |
| 13; | 5059.3; | 08-JAN-2010 | 08:12:35; | Bright; | 53.0; | 120; | 1Del Oph | ; | 2.73; | 3200;occ; | 106; | 0; | 41085 | |
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| 15; | 5387.7; | 08-JAN-2010 | 08:18:03; | Dark | ; | 42.5; | 80; | 7Del Sco | ; | 2.32; | 30000;occ; | 85; | 0; | 41085 |
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| 17; | 5896.5; | 08-JAN-2010 | 08:26:32; | Dark | ; | 42.5; | 78; | Alp Lup | ; | 2.30; | 28000;occ; | 85; | 0; | 41085 |
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 25; 7244.4; 08-JAN-2010 12:10:12; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;41087


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9; 3678.4; 08-JAN-2010 12:51:21; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;41088
10; 3924.5; 08-JAN-2010 12:55:27; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;41088
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12; 4566.5; 08-JAN-2010 13:06:09; Bright; 42.5; 67; 5Alp CrB ; 2.22; 11000;occ; 85; 0;41088
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9; 3923.4; 13-JAN-2010 08:36:46; Bright; 52.5; 119; 14Eta Dra ; 2.73; 4700;occ; 105; 0;41157
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 5; 2192.9; 28-JAN-2010 18:40:15; Bright; 40.5; 44; 24Gam Gem ; 1.93; 11000;occ; 81; 0;41378
 6; 2337.0; 28-JAN-2010 18:42:39; Bright; 39.5; 170; 27Eps Gem ; 3.00; 9700;occ; 79; 0;41378
 7; 2462.4; 28-JAN-2010 18:44:44; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;41378

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 14; 4784.9; 28-JAN-2010 19:23:27; Bright; 54.0; 59; 55Alp Oph ; 2.08; 8900;occ; 108; 0;41378
 15; 4911.4; 28-JAN-2010 19:25:33; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;41378
 16; 5292.1; 28-JAN-2010 19:31:54; Dark ; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;41378
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 6; 446.8; 29-JAN-2010 00:53:32; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;41382
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 9; 808.8; 29-JAN-2010 00:59:34; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 0;41382
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 11; 1068.6; 29-JAN-2010 01:03:54; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;41382
 12; 1194.4; 29-JAN-2010 01:06:00; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;41382
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 16; 2337.5; 29-JAN-2010 01:25:03; Bright; 38.0; 170; 27Eps Gem ; 3.00; 9700;occ; 76; 0;41382
 17; 2461.7; 29-JAN-2010 01:27:07; Bright; 40.0; 24; 66Alp Gem ; 1.58; 10200;occ; 80; 0;41382
 18; 3427.1; 29-JAN-2010 01:43:12; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;41382
 19; 3623.9; 29-JAN-2010 01:46:29; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41382
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 21; 4086.8; 29-JAN-2010 01:54:12; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;41382
 22; 4298.6; 29-JAN-2010 01:57:44; Bright; 40.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 81; 0;41382
 23; 4481.2; 29-JAN-2010 02:00:46; Bright; 44.0; 133; 40Zet Her ; 2.81; 6000;occ; 88; 0;41382
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 8; 694.4; 29-JAN-2010 02:38:15; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41383
 9; 809.6; 29-JAN-2010 02:40:11; Dark ; 48.5; 71; Iot Car ; 2.25; 7700;occ; 97; 0;41383
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 3; -1948.9; 29-JAN-2010 03:34:48; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;41383
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 5; -1554.8; 29-JAN-2010 03:41:22; Bright; 42.0; 133; 40Zet Her ; 2.81; 6000;occ; 84; 0;41383
 6; -1250.1; 29-JAN-2010 03:46:27; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;41383
 7; -1122.9; 29-JAN-2010 03:48:34; Bright; 40.5; 126; 60Bet Oph ; 2.77; 4250;occ; 81; 0;41383
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17; 810.1; 29-JAN-2010 04:20:47; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;41384
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 3; 2338.0; 29-JAN-2010 13:09:15; Bright; 38.0; 170; 27Eps Gem ; 3.00; 9700;occ; 76; 0;41389
 4; 2460.7; 29-JAN-2010 13:11:17; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;41389
 5; 3427.7; 29-JAN-2010 13:27:24; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;41389
 6; 3622.0; 29-JAN-2010 13:30:39; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41389
 7; 3902.4; 29-JAN-2010 13:35:19; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;41389
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 10; 4482.3; 29-JAN-2010 13:44:59; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;41389
 11; 4787.6; 29-JAN-2010 13:50:04; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;41389
 12; 4914.8; 29-JAN-2010 13:52:11; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;41389
 13; 5297.2; 29-JAN-2010 13:58:34; Dark ; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;41389
 14; 5549.1; 29-JAN-2010 14:02:46; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;41389
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 16; 6118.6; 29-JAN-2010 14:12:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41389
 17; 6211.7; 29-JAN-2010 14:13:48; Dark ; 40.5; 4; Alp1Cen ; -0.01; 5800;occ; 81; 0;41389
 18; 6319.7; 29-JAN-2010 14:15:36; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41389
 19; 6487.3; 29-JAN-2010 14:18:24; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;41389
 20; 6599.4; 29-JAN-2010 14:20:16; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41389
 21; 6732.9; 29-JAN-2010 14:22:29; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;41389
 22; 6847.7; 29-JAN-2010 14:24:24; Dark ; 47.5; 71; Iot Car ; 2.25; 7700;occ; 95; 0;41389
 23; 6953.8; 29-JAN-2010 14:26:10; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;41389
 24; 7106.9; 29-JAN-2010 14:28:44; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;41389
 25; 7232.7; 29-JAN-2010 14:30:49; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;41389
 26; 7441.7; 29-JAN-2010 14:34:18; Dark ; 29.5; 88; 31Eta CMa ; 2.45; 20000;occ; 59; 0;41389

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 3; 2194.6; 29-JAN-2010 14:47:27; Bright; 38.5; 44; 24Gam Gem ; 1.93; 11000;occ; 77; 0;41390
 4; 2338.3; 29-JAN-2010 14:49:51; Bright; 37.0; 170; 27Eps Gem ; 3.00; 9700;occ; 74; 0;41390
 5; 2460.7; 29-JAN-2010 14:51:53; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;41390

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9; 4087.3; 29-JAN-2010 15:19:00; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;41390
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11; 4482.5; 29-JAN-2010 15:25:35; Bright; 45.5; 133; 40Zet Her ; 2.81; 6000;occ; 91; 0;41390
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13; 4915.3; 29-JAN-2010 15:32:48; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;41390
14; 5297.7; 29-JAN-2010 15:39:10; Dark ; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;41390
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21; 6600.2; 29-JAN-2010 16:00:53; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;41390
22; 6733.4; 29-JAN-2010 16:03:06; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;41390
23; 6848.1; 29-JAN-2010 16:05:01; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;41390
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4; 2338.2; 29-JAN-2010 16:30:27; Bright; 38.5; 170; 27Eps Gem ; 3.00; 9700;occ; 77; 0;41391
5; 2460.5; 29-JAN-2010 16:32:29; Bright; 55.0; 24; 66Alp Gem ; 1.58; 10200;occ; 110; 0;41391
6; 3427.4; 29-JAN-2010 16:48:36; Bright; 40.0; 49; 1Alp UMi ; 1.99; 6300;occ; 80; 0;41391
7; 3621.7; 29-JAN-2010 16:51:50; Bright; 45.0; 60; 7Bet UMi ; 2.08; 3950;occ; 90; 0;41391
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9; 4087.0; 29-JAN-2010 16:59:35; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;41391
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11; 4482.7; 29-JAN-2010 17:06:11; Bright; 42.5; 133; 40Zet Her ; 2.81; 6000;occ; 85; 0;41391
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13; 4915.3; 29-JAN-2010 17:13:24; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;41391
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16; 5893.9; 29-JAN-2010 17:29:42; Dark ; 44.0; 131; Gam Lup ; 2.80; 26000;occ; 88; 0;41391
17; 6120.0; 29-JAN-2010 17:33:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41391
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20; 6488.6; 29-JAN-2010 17:39:37; Dark ; 45.0; 12; Alp1Cru ; 0.77; 30000;occ; 90; 0;41391
21; 6601.2; 29-JAN-2010 17:41:30; Dark ; 46.0; 99; Del Cen ; 2.58; 26000;occ; 92; 0;41391
22; 6733.7; 29-JAN-2010 17:43:42; Dark ; 39.5; 159; Ups Car ; 2.92; 7200;occ; 79; 0;41391
23; 6848.6; 29-JAN-2010 17:45:37; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;41391
24; 6954.6; 29-JAN-2010 17:47:23; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41391
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6; 2338.2; 29-JAN-2010 18:11:03; Bright; 52.0; 170; 27Eps Gem ; 3.00; 9700;occ; 104; 0;41392
7; 2460.3; 29-JAN-2010 18:13:05; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;41392
8; 3427.4; 29-JAN-2010 18:29:12; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;41392
9; 3621.4; 29-JAN-2010 18:32:26; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41392
10; 3901.9; 29-JAN-2010 18:37:06; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;41392
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13; 4482.6; 29-JAN-2010 18:46:47; Bright; 44.0; 133; 40Zet Her ; 2.81; 6000;occ; 88; 0;41392
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15; 4915.8; 29-JAN-2010 18:54:00; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;41392
16; 5298.5; 29-JAN-2010 19:00:23; Dark ; 46.0; 86; 35Eta Oph ; 2.43; 10200;occ; 92; 0;41392
17; 5551.0; 29-JAN-2010 19:04:36; Dark ; 48.5; 16; 21Alp Sco ; 1.02; 3000;occ; 97; 0;41392
18; 5894.5; 29-JAN-2010 19:10:19; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;41392
19; 6120.7; 29-JAN-2010 19:14:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41392
20; 6213.4; 29-JAN-2010 19:15:38; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;41392

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22; 6489.0; 29-JAN-2010 19:20:14; Dark ; 50.0; 12; Alp1Cru ; 0.77; 30000;occ; 100; 0;41392
23; 6601.7; 29-JAN-2010 19:22:06; Dark ; 46.0; 99; Del Cen ; 2.58; 26000;occ; 92; 0;41392
24; 6734.1; 29-JAN-2010 19:24:19; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;41392
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26; 6954.9; 29-JAN-2010 19:27:59; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41392
27; 7107.9; 29-JAN-2010 19:30:32; Dark ; 6.0; 34; Gam2Vel ; 1.79; 23000;occ; 12; 0;41392
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15; 4916.0; 29-JAN-2010 20:34:36; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;41393
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17; 5551.3; 29-JAN-2010 20:45:12; Dark ; 58.0; 16; 21Alp Sco ; 1.02; 3000;occ; 116; 0;41393
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19; 6121.3; 29-JAN-2010 20:54:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41393
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22; 6489.4; 29-JAN-2010 21:00:50; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;41393
23; 6602.7; 29-JAN-2010 21:02:43; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;41393
24; 6734.1; 29-JAN-2010 21:04:55; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41393
25; 6848.8; 29-JAN-2010 21:06:49; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;41393
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 3; 179.0; 30-JAN-2010 00:17:27; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;41396
 4; 288.4; 30-JAN-2010 00:19:17; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41396
 5; 454.6; 30-JAN-2010 00:22:03; Dark ; 48.5; 12; Alp1Cru ; 0.77; 30000;occ; 97; 0;41396
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11; 1197.8; 30-JAN-2010 00:34:26; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;41396
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13; 1992.6; 30-JAN-2010 00:47:41; Dark ; 46.5; 8; 10Alp CMi ; 0.40; 6500;occ; 93; 0;41396
14; 2459.5; 30-JAN-2010 00:55:28; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;41396
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22; 4916.8; 30-JAN-2010 01:36:25; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;41396
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 4; 87.5; 30-JAN-2010 01:56:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41397
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