

GOMOS Daily Report 10-JAN-2007

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 | 12JAN2007 05:38:52 |
| Data source version | GOMOS/5.00 |
| Start time of products | QDS_YESTERDAY(/START)-1D (10JAN2007 00:00:00) |
| Stop time of products | QDS_YESTERDAY(/STOP)-1D (11JAN2007 00:00:00) |
| Store outputs in DB | Yes |
| Nb of level 1b prods | 49 |
| Nb of prods with errors | 0 |

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

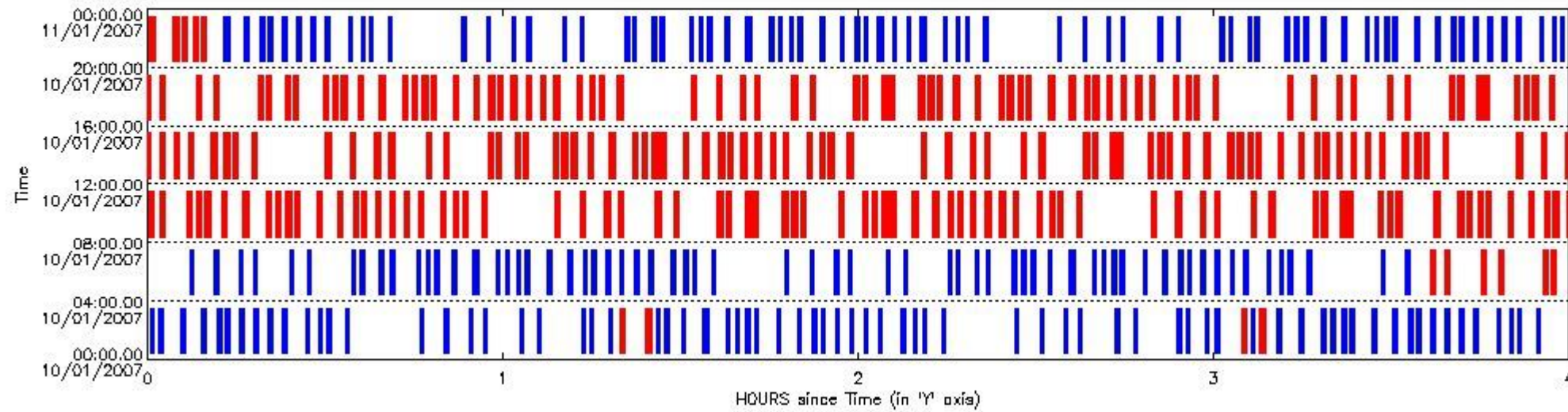
2.1 Level 0 products arrived in PCF (see template [here](#))

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 |
|----------------------|-----------|---------|-------|
| 10-JAN-2007 01:19:36 | 6PiSco | 158 | 25421 |
| 10-JAN-2007 01:24:05 | GamLup | 131 | 25421 |
| 10-JAN-2007 03:04:42 | GamLup | 131 | 25422 |
| 10-JAN-2007 03:07:47 | AlpLup | 78 | 25422 |
| 10-JAN-2007 07:36:30 | 14EtaDra | 119 | 25425 |
| 10-JAN-2007 07:38:54 | 23BetDra | 130 | 25425 |
| 10-JAN-2007 07:45:08 | 40ZetHer | 133 | 25425 |
| 10-JAN-2007 07:48:09 | 27BetHer | 127 | 25425 |
| 10-JAN-2007 07:55:34 | 1DelOph | 120 | 25425 |
| 10-JAN-2007 07:57:01 | 13ZetOph | 98 | 25425 |
| 10-JAN-2007 08:00:11 | 8Bet1Sco | 97 | 25425 |
| 10-JAN-2007 08:02:02 | 6PiSco | 158 | 25425 |
| 10-JAN-2007 08:06:31 | GamLup | 131 | 25425 |
| 10-JAN-2007 08:08:06 | BetLup | 109 | 25425 |
| 10-JAN-2007 08:09:37 | AlpLup | 78 | 25425 |

| | | | |
|----------------------|-----------|-----|-------|
| 10-JAN-2007 08:12:27 | Alp1Cen | 4 | 25426 |
| 10-JAN-2007 08:16:01 | DSA1028 | 0 | 25426 |
| 10-JAN-2007 08:19:59 | TheCar | 124 | 25426 |
| 10-JAN-2007 08:21:34 | BetCar | 29 | 25426 |
| 10-JAN-2007 08:23:19 | lotCar | 71 | 25426 |
| 10-JAN-2007 08:24:41 | EpsCar | 41 | 25426 |
| 10-JAN-2007 08:28:31 | AlpCar | 2 | 25426 |
| 10-JAN-2007 08:31:57 | PiPup | 117 | 25426 |
| 10-JAN-2007 08:34:35 | 21EpsCMa | 23 | 25426 |
| 10-JAN-2007 08:36:02 | 24Omi2CMa | 179 | 25426 |
| 10-JAN-2007 08:38:20 | 9AlpCMa | 1 | 25426 |
| 10-JAN-2007 08:40:48 | 53KapOri | 56 | 25426 |
| 10-JAN-2007 08:43:16 | 46EpsOri | 30 | 25426 |
| 10-JAN-2007 08:45:35 | 58AlpOri | 14 | 25426 |
| 10-JAN-2007 08:49:31 | 23ZetTau | 176 | 25426 |
| 10-JAN-2007 08:51:39 | 12BetTau | 28 | 25426 |
| 10-JAN-2007 08:53:06 | 3lotAur | 114 | 25426 |
| 10-JAN-2007 08:56:19 | 34BetAur | 42 | 25426 |
| 10-JAN-2007 09:08:46 | 1AlpUMi | 49 | 25426 |
| 10-JAN-2007 09:12:57 | 7BetUMi | 60 | 25426 |
| 10-JAN-2007 09:17:06 | 14EtaDra | 119 | 25426 |
| 10-JAN-2007 09:19:30 | 23BetDra | 130 | 25426 |
| 10-JAN-2007 09:25:44 | 40ZetHer | 133 | 25426 |
| 10-JAN-2007 09:28:45 | 27BetHer | 127 | 25426 |
| 10-JAN-2007 09:36:10 | 1DelOph | 120 | 25426 |
| 10-JAN-2007 09:37:37 | 13ZetOph | 98 | 25426 |
| 10-JAN-2007 09:40:47 | 8Bet1Sco | 97 | 25426 |
| 10-JAN-2007 09:42:04 | 21AlpSco | 16 | 25426 |
| 10-JAN-2007 09:47:07 | GamLup | 131 | 25426 |
| 10-JAN-2007 09:48:43 | BetLup | 109 | 25426 |
| 10-JAN-2007 09:50:13 | AlpLup | 78 | 25426 |
| 10-JAN-2007 09:56:37 | DSA1028 | 0 | 25427 |
| 10-JAN-2007 10:00:35 | TheCar | 124 | 25427 |
| 10-JAN-2007 10:02:11 | BetCar | 29 | 25427 |
| 10-JAN-2007 10:03:55 | lotCar | 71 | 25427 |
| 10-JAN-2007 10:05:18 | EpsCar | 41 | 25427 |
| 10-JAN-2007 10:09:08 | AlpCar | 2 | 25427 |
| 10-JAN-2007 10:12:33 | PiPup | 117 | 25427 |
| 10-JAN-2007 10:15:11 | 21EpsCMa | 23 | 25427 |
| 10-JAN-2007 10:16:39 | 24Omi2CMa | 179 | 25427 |
| 10-JAN-2007 10:18:56 | 9AlpCMa | 1 | 25427 |
| 10-JAN-2007 10:21:24 | 53KapOri | 56 | 25427 |
| 10-JAN-2007 10:23:52 | 46EpsOri | 30 | 25427 |
| 10-JAN-2007 10:26:10 | 58AlpOri | 14 | 25427 |
| 10-JAN-2007 10:30:07 | 23ZetTau | 176 | 25427 |
| 10-JAN-2007 10:32:15 | 12BetTau | 28 | 25427 |
| 10-JAN-2007 10:33:42 | 3lotAur | 114 | 25427 |
| 10-JAN-2007 10:36:55 | 34BetAur | 42 | 25427 |
| 10-JAN-2007 10:49:22 | 1AlpUMi | 49 | 25427 |
| 10-JAN-2007 10:53:33 | 7BetUMi | 60 | 25427 |
| 10-JAN-2007 10:57:42 | 14EtaDra | 119 | 25427 |
| 10-JAN-2007 11:00:06 | 23BetDra | 130 | 25427 |
| 10-JAN-2007 11:06:20 | 40ZetHer | 133 | 25427 |
| 10-JAN-2007 11:09:21 | 27BetHer | 127 | 25427 |
| 10-JAN-2007 11:16:46 | 1DelOph | 120 | 25427 |
| 10-JAN-2007 11:18:13 | 13ZetOph | 98 | 25427 |
| 10-JAN-2007 11:21:23 | 8Bet1Sco | 97 | 25427 |
| 10-JAN-2007 11:22:40 | 21AlpSco | 16 | 25427 |
| 10-JAN-2007 11:27:44 | GamLup | 131 | 25427 |

| | | | |
|----------------------|-----------|-----|-------|
| 10-JAN-2007 11:29:19 | BetLup | 109 | 25427 |
| 10-JAN-2007 11:30:50 | AlpLup | 78 | 25427 |
| 10-JAN-2007 11:37:13 | DSA1028 | 0 | 25428 |
| 10-JAN-2007 11:41:12 | TheCar | 124 | 25428 |
| 10-JAN-2007 11:42:47 | BetCar | 29 | 25428 |
| 10-JAN-2007 11:44:32 | lotCar | 71 | 25428 |
| 10-JAN-2007 11:45:54 | EpsCar | 41 | 25428 |
| 10-JAN-2007 11:49:44 | AlpCar | 2 | 25428 |
| 10-JAN-2007 11:53:10 | PiPup | 117 | 25428 |
| 10-JAN-2007 11:55:47 | 21EpsCMa | 23 | 25428 |
| 10-JAN-2007 11:57:15 | 24Omi2CMa | 179 | 25428 |
| 10-JAN-2007 11:59:32 | 9AlpCMa | 1 | 25428 |
| 10-JAN-2007 12:02:00 | 53KapOri | 56 | 25428 |
| 10-JAN-2007 12:04:28 | 46EpsOri | 30 | 25428 |
| 10-JAN-2007 12:06:46 | 58AlpOri | 14 | 25428 |
| 10-JAN-2007 12:10:43 | 23ZetTau | 176 | 25428 |
| 10-JAN-2007 12:12:51 | 12BetTau | 28 | 25428 |
| 10-JAN-2007 12:14:19 | 3lotAur | 114 | 25428 |
| 10-JAN-2007 12:17:31 | 34BetAur | 42 | 25428 |
| 10-JAN-2007 12:29:58 | 1AlpUMi | 49 | 25428 |
| 10-JAN-2007 12:34:09 | 7BetUMi | 60 | 25428 |
| 10-JAN-2007 12:38:18 | 14EtaDra | 119 | 25428 |
| 10-JAN-2007 12:40:42 | 23BetDra | 130 | 25428 |
| 10-JAN-2007 12:46:56 | 40ZetHer | 133 | 25428 |
| 10-JAN-2007 12:49:58 | 27BetHer | 127 | 25428 |
| 10-JAN-2007 12:57:23 | 1DelOph | 120 | 25428 |
| 10-JAN-2007 12:58:50 | 13ZetOph | 98 | 25428 |
| 10-JAN-2007 13:02:00 | 8Bet1Sco | 97 | 25428 |
| 10-JAN-2007 13:03:16 | 21AlpSco | 16 | 25428 |
| 10-JAN-2007 13:08:20 | GamLup | 131 | 25428 |
| 10-JAN-2007 13:09:56 | BetLup | 109 | 25428 |
| 10-JAN-2007 13:11:26 | AlpLup | 78 | 25428 |
| 10-JAN-2007 13:14:16 | Alp1Cen | 4 | 25429 |
| 10-JAN-2007 13:17:49 | DSA1028 | 0 | 25429 |
| 10-JAN-2007 13:21:48 | TheCar | 124 | 25429 |
| 10-JAN-2007 13:23:23 | BetCar | 29 | 25429 |
| 10-JAN-2007 13:25:08 | lotCar | 71 | 25429 |
| 10-JAN-2007 13:26:30 | EpsCar | 41 | 25429 |
| 10-JAN-2007 13:30:20 | AlpCar | 2 | 25429 |
| 10-JAN-2007 13:33:46 | PiPup | 117 | 25429 |
| 10-JAN-2007 13:36:24 | 21EpsCMa | 23 | 25429 |
| 10-JAN-2007 13:37:51 | 24Omi2CMa | 179 | 25429 |
| 10-JAN-2007 13:40:08 | 9AlpCMa | 1 | 25429 |
| 10-JAN-2007 13:42:36 | 53KapOri | 56 | 25429 |
| 10-JAN-2007 13:45:04 | 46EpsOri | 30 | 25429 |
| 10-JAN-2007 13:47:22 | 58AlpOri | 14 | 25429 |
| 10-JAN-2007 13:51:19 | 23ZetTau | 176 | 25429 |
| 10-JAN-2007 13:53:27 | 12BetTau | 28 | 25429 |
| 10-JAN-2007 13:54:55 | 3lotAur | 114 | 25429 |
| 10-JAN-2007 13:58:06 | 34BetAur | 42 | 25429 |
| 10-JAN-2007 14:10:34 | 1AlpUMi | 49 | 25429 |
| 10-JAN-2007 14:14:44 | 7BetUMi | 60 | 25429 |
| 10-JAN-2007 14:18:54 | 14EtaDra | 119 | 25429 |
| 10-JAN-2007 14:21:18 | 23BetDra | 130 | 25429 |
| 10-JAN-2007 14:27:32 | 40ZetHer | 133 | 25429 |
| 10-JAN-2007 14:30:34 | 27BetHer | 127 | 25429 |
| 10-JAN-2007 14:37:59 | 1DelOph | 120 | 25429 |
| 10-JAN-2007 14:39:26 | 13ZetOph | 98 | 25429 |
| 10-JAN-2007 14:42:36 | 8Bet1Sco | 97 | 25429 |

| | | | |
|----------------------|-----------|-----|-------|
| 10-JAN-2007 14:43:52 | 21AlpSco | 16 | 25429 |
| 10-JAN-2007 14:48:56 | GamLup | 131 | 25429 |
| 10-JAN-2007 14:50:32 | BetLup | 109 | 25429 |
| 10-JAN-2007 14:52:03 | AlpLup | 78 | 25429 |
| 10-JAN-2007 14:54:52 | Alp1Cen | 4 | 25430 |
| 10-JAN-2007 14:58:26 | DSA1028 | 0 | 25430 |
| 10-JAN-2007 15:02:25 | TheCar | 124 | 25430 |
| 10-JAN-2007 15:03:59 | BetCar | 29 | 25430 |
| 10-JAN-2007 15:05:44 | lotCar | 71 | 25430 |
| 10-JAN-2007 15:07:07 | EpsCar | 41 | 25430 |
| 10-JAN-2007 15:10:56 | AlpCar | 2 | 25430 |
| 10-JAN-2007 15:14:22 | PiPup | 117 | 25430 |
| 10-JAN-2007 15:17:00 | 21EpsCMa | 23 | 25430 |
| 10-JAN-2007 15:18:27 | 24Omi2CMa | 179 | 25430 |
| 10-JAN-2007 15:20:44 | 9AlpCMa | 1 | 25430 |
| 10-JAN-2007 15:23:12 | 53KapOri | 56 | 25430 |
| 10-JAN-2007 15:25:40 | 46EpsOri | 30 | 25430 |
| 10-JAN-2007 15:27:58 | 58AlpOri | 14 | 25430 |
| 10-JAN-2007 15:31:55 | 23ZetTau | 176 | 25430 |
| 10-JAN-2007 15:34:03 | 12BetTau | 28 | 25430 |
| 10-JAN-2007 15:35:31 | 3lotAur | 114 | 25430 |
| 10-JAN-2007 15:38:42 | 34BetAur | 42 | 25430 |
| 10-JAN-2007 15:51:10 | 1AlpUMi | 49 | 25430 |
| 10-JAN-2007 15:55:20 | 7BetUMi | 60 | 25430 |
| 10-JAN-2007 15:59:30 | 14EtaDra | 119 | 25430 |
| 10-JAN-2007 16:01:54 | 23BetDra | 130 | 25430 |
| 10-JAN-2007 16:08:08 | 40ZetHer | 133 | 25430 |
| 10-JAN-2007 16:11:10 | 27BetHer | 127 | 25430 |
| 10-JAN-2007 16:18:35 | 1DelOph | 120 | 25430 |
| 10-JAN-2007 16:20:02 | 13ZetOph | 98 | 25430 |
| 10-JAN-2007 16:23:12 | 8Bet1Sco | 97 | 25430 |
| 10-JAN-2007 16:24:29 | 21AlpSco | 16 | 25430 |
| 10-JAN-2007 16:29:33 | GamLup | 131 | 25430 |
| 10-JAN-2007 16:31:09 | BetLup | 109 | 25430 |
| 10-JAN-2007 16:32:39 | AlpLup | 78 | 25430 |
| 10-JAN-2007 16:35:29 | Alp1Cen | 4 | 25431 |
| 10-JAN-2007 16:39:02 | DSA1028 | 0 | 25431 |
| 10-JAN-2007 16:43:01 | TheCar | 124 | 25431 |
| 10-JAN-2007 16:44:36 | BetCar | 29 | 25431 |
| 10-JAN-2007 16:46:21 | lotCar | 71 | 25431 |
| 10-JAN-2007 16:47:43 | EpsCar | 41 | 25431 |
| 10-JAN-2007 16:51:32 | AlpCar | 2 | 25431 |
| 10-JAN-2007 16:54:58 | PiPup | 117 | 25431 |
| 10-JAN-2007 16:57:36 | 21EpsCMa | 23 | 25431 |
| 10-JAN-2007 16:59:03 | 24Omi2CMa | 179 | 25431 |
| 10-JAN-2007 17:01:20 | 9AlpCMa | 1 | 25431 |
| 10-JAN-2007 17:03:49 | 53KapOri | 56 | 25431 |
| 10-JAN-2007 17:06:16 | 46EpsOri | 30 | 25431 |
| 10-JAN-2007 17:08:34 | 58AlpOri | 14 | 25431 |
| 10-JAN-2007 17:12:31 | 23ZetTau | 176 | 25431 |
| 10-JAN-2007 17:14:39 | 12BetTau | 28 | 25431 |
| 10-JAN-2007 17:16:07 | 3lotAur | 114 | 25431 |
| 10-JAN-2007 17:19:18 | 34BetAur | 42 | 25431 |
| 10-JAN-2007 17:31:46 | 1AlpUMi | 49 | 25431 |
| 10-JAN-2007 17:35:56 | 7BetUMi | 60 | 25431 |
| 10-JAN-2007 17:40:06 | 14EtaDra | 119 | 25431 |
| 10-JAN-2007 17:42:30 | 23BetDra | 130 | 25431 |
| 10-JAN-2007 17:48:44 | 40ZetHer | 133 | 25431 |
| 10-JAN-2007 17:51:46 | 27BetHer | 127 | 25431 |

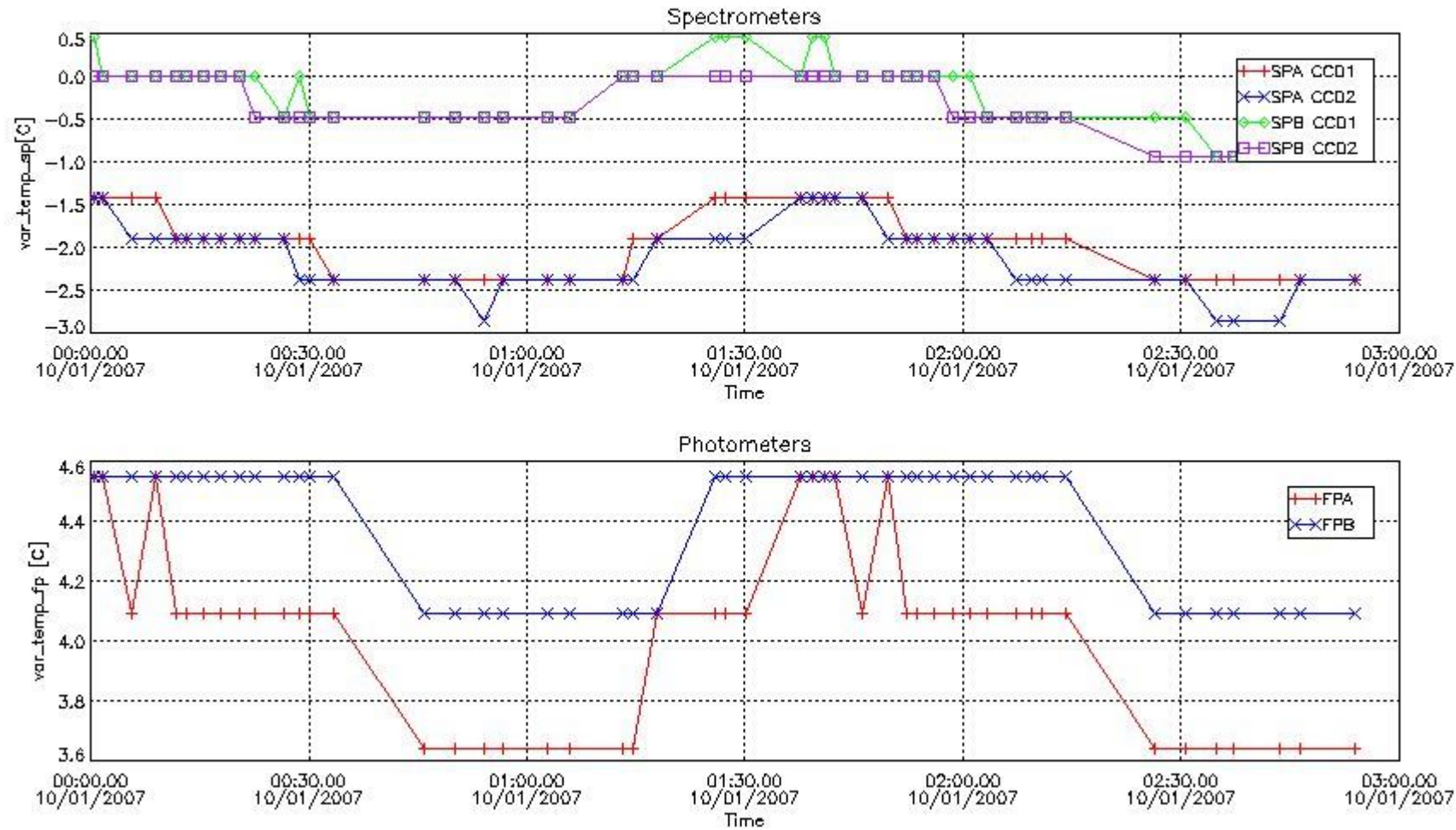
| | | | |
|----------------------|-----------|-----|-------|
| 10-JAN-2007 17:59:11 | 1DelOph | 120 | 25431 |
| 10-JAN-2007 18:00:38 | 13ZetOph | 98 | 25431 |
| 10-JAN-2007 18:03:49 | 8Bet1Sco | 97 | 25431 |
| 10-JAN-2007 18:05:05 | 21AlpSco | 16 | 25431 |
| 10-JAN-2007 18:10:09 | GamLup | 131 | 25431 |
| 10-JAN-2007 18:11:45 | BetLup | 109 | 25431 |
| 10-JAN-2007 18:13:16 | AlpLup | 78 | 25431 |
| 10-JAN-2007 18:16:05 | Alp1Cen | 4 | 25432 |
| 10-JAN-2007 18:19:38 | DSA1028 | 0 | 25432 |
| 10-JAN-2007 18:23:38 | TheCar | 124 | 25432 |
| 10-JAN-2007 18:25:12 | BetCar | 29 | 25432 |
| 10-JAN-2007 18:26:57 | lotCar | 71 | 25432 |
| 10-JAN-2007 18:28:19 | EpsCar | 41 | 25432 |
| 10-JAN-2007 18:32:08 | AlpCar | 2 | 25432 |
| 10-JAN-2007 18:35:35 | PiPup | 117 | 25432 |
| 10-JAN-2007 18:38:12 | 21EpsCMa | 23 | 25432 |
| 10-JAN-2007 18:39:39 | 24Omi2CMa | 179 | 25432 |
| 10-JAN-2007 18:41:56 | 9AlpCMa | 1 | 25432 |
| 10-JAN-2007 18:44:25 | 53KapOri | 56 | 25432 |
| 10-JAN-2007 18:46:52 | 46EpsOri | 30 | 25432 |
| 10-JAN-2007 18:49:10 | 58AlpOri | 14 | 25432 |
| 10-JAN-2007 18:53:07 | 23ZetTau | 176 | 25432 |
| 10-JAN-2007 18:55:15 | 12BetTau | 28 | 25432 |
| 10-JAN-2007 18:56:43 | 3lotAur | 114 | 25432 |
| 10-JAN-2007 18:59:54 | 34BetAur | 42 | 25432 |
| 10-JAN-2007 19:12:22 | 1AlpUMi | 49 | 25432 |
| 10-JAN-2007 19:16:32 | 7BetUMi | 60 | 25432 |
| 10-JAN-2007 19:20:42 | 14EtaDra | 119 | 25432 |
| 10-JAN-2007 19:23:06 | 23BetDra | 130 | 25432 |
| 10-JAN-2007 19:29:21 | 40ZetHer | 133 | 25432 |
| 10-JAN-2007 19:32:22 | 27BetHer | 127 | 25432 |
| 10-JAN-2007 19:39:48 | 1DelOph | 120 | 25432 |
| 10-JAN-2007 19:41:15 | 13ZetOph | 98 | 25432 |
| 10-JAN-2007 19:44:25 | 8Bet1Sco | 97 | 25432 |
| 10-JAN-2007 19:45:41 | 21AlpSco | 16 | 25432 |
| 10-JAN-2007 19:50:46 | GamLup | 131 | 25432 |
| 10-JAN-2007 19:52:22 | BetLup | 109 | 25432 |
| 10-JAN-2007 19:53:52 | AlpLup | 78 | 25432 |
| 10-JAN-2007 19:56:41 | Alp1Cen | 4 | 25433 |
| 10-JAN-2007 20:00:14 | DSA1028 | 0 | 25433 |
| 10-JAN-2007 20:04:14 | TheCar | 124 | 25433 |
| 10-JAN-2007 20:05:48 | BetCar | 29 | 25433 |
| 10-JAN-2007 20:07:34 | lotCar | 71 | 25433 |
| 10-JAN-2007 20:08:56 | EpsCar | 41 | 25433 |

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_1PNPDE20070110_000022_000000392054_00317_25421_0794.N1 | 10-JAN-2007 00:00:22 | Dark | 38.500 | 71 | lot Car | 2.2460 | 7700.0 | 77 | 25421 | No |
| 2 | GOM_TRA_1PNPDE20070110_000145_000000472054_00317_25421_0795.N1 | 10-JAN-2007 00:01:45 | Dark | 47.000 | 41 | Eps Car | 1.8600 | 4100.0 | 94 | 25421 | No |
| 3 | GOM_TRA_1PNPDE20070110_000536_000000412054_00317_25421_0796.N1 | 10-JAN-2007 00:05:36 | Dark | 40.500 | 2 | Alp Car | -0.73600 | 7000.0 | 81 | 25421 | No |
| 4 | GOM_TRA_1PNPDE20070110_000901_000000442054_00317_25421_0797.N1 | 10-JAN-2007 00:09:01 | Straylight | 43.500 | 117 | Pi Pup | 2.7060 | 3800.0 | 87 | 25421 | No |
| 5 | GOM_TRA_1PNPDE20070110_001140_000000432054_00317_25421_0798.N1 | 10-JAN-2007 00:11:40 | Straylight | 43.000 | 23 | 21Eps CMa | 1.5020 | 26000. | 86 | 25421 | No |
| 6 | GOM_TRA_1PNPDE20070110_001307_000000432054_00317_25421_0799.N1 | 10-JAN-2007 00:13:07 | Straylight | 42.500 | 179 | 24Omi2CMa | 3.0320 | 24000. | 85 | 25421 | No |
| 7 | GOM_TRA_1PNPDE20070110_001525_000000542054_00317_25421_0800.N1 | 10-JAN-2007 00:15:25 | Straylight | 53.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 107 | 25421 | No |
| 8 | GOM_TRA_1PNPDE20070110_001753_000000412054_00317_25421_0801.N1 | 10-JAN-2007 00:17:53 | Straylight | 40.500 | 56 | 53Kap Ori | 2.0650 | 30000. | 81 | 25421 | No |
| 9 | GOM_TRA_1PNPDE20070110_002021_000000412054_00317_25421_0802.N1 | 10-JAN-2007 00:20:21 | Straylight | 41.000 | 30 | 46Eps Ori | 1.6940 | 30000. | 82 | 25421 | No |
| 10 | GOM_TRA_1PNPDE20070110_002240_000000482054_00317_25421_0803.N1 | 10-JAN-2007 00:22:40 | Twilight_stray | 47.500 | 14 | 58Alp Ori | 0.87000 | 3000.0 | 95 | 25421 | No |

| | | | | | | | | | | | |
|----|--|----------------------|----------------|--------|-----|-----------|-----------|--------|----|-------|----|
| 11 | GOM_TRA_1PNPDE20070110_002636_000000362054_00317_25421_0804.N1 | 10-JAN-2007 00:26:36 | Bright | 36.000 | 176 | 23Zet Tau | 3.0200 | 22000. | 72 | 25421 | No |
| 12 | GOM_TRA_1PNPDE20070110_002844_000000372054_00317_25421_0805.N1 | 10-JAN-2007 00:28:44 | Bright | 36.500 | 28 | 12Bet Tau | 1.6500 | 15200. | 73 | 25421 | No |
| 13 | GOM_TRA_1PNPDE20070110_003011_000000462054_00317_25421_0806.N1 | 10-JAN-2007 00:30:11 | Bright | 46.000 | 114 | 3lot Aur | 2.6930 | 4600.0 | 92 | 25421 | No |
| 14 | GOM_TRA_1PNPDE20070110_003325_000000372054_00317_25421_0807.N1 | 10-JAN-2007 00:33:25 | Bright | 37.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 74 | 25421 | No |
| 15 | GOM_TRA_1PNPDE20070110_004552_000000332054_00317_25421_0808.N1 | 10-JAN-2007 00:45:52 | Bright | 32.500 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 65 | 25421 | No |
| 16 | GOM_TRA_1PNPDE20070110_005003_000000372054_00317_25421_0809.N1 | 10-JAN-2007 00:50:03 | Bright | 37.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 74 | 25421 | No |
| 17 | GOM_TRA_1PNPDE20070110_005412_000000372054_00317_25421_0810.N1 | 10-JAN-2007 00:54:12 | Bright | 36.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 73 | 25421 | No |
| 18 | GOM_TRA_1PNPDE20070110_005635_000000352054_00317_25421_0811.N1 | 10-JAN-2007 00:56:35 | Bright | 35.000 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 70 | 25421 | No |
| 19 | GOM_TRA_1PNPDE20070110_010249_000000362054_00317_25421_0812.N1 | 10-JAN-2007 01:02:49 | Bright | 36.000 | 133 | 40Zet Her | 2.8070 | 6000.0 | 72 | 25421 | No |
| 20 | GOM_TRA_1PNPDE20070110_010550_000000352054_00317_25421_0813.N1 | 10-JAN-2007 01:05:50 | Bright | 34.500 | 127 | 27Bet Her | 2.7810 | 4700.0 | 69 | 25421 | No |
| 21 | GOM_TRA_1PNPDE20070110_011314_000000372054_00317_25421_0814.N1 | 10-JAN-2007 01:13:14 | Bright | 36.500 | 120 | 1Del Oph | 2.7340 | 3200.0 | 73 | 25421 | No |
| 22 | GOM_TRA_1PNPDE20070110_011441_000000342054_00317_25421_0815.N1 | 10-JAN-2007 01:14:41 | Bright | 34.000 | 98 | 13Zet Oph | 2.5710 | 30000. | 68 | 25421 | No |
| 23 | GOM_TRA_1PNPDE20070110_011751_000000402054_00317_25421_0923.N1 | 10-JAN-2007 01:17:51 | Bright | 40.000 | 97 | 8Bet1Sco | 2.5610 | 30000. | 80 | 25421 | No |
| 24 | GOM_TRA_1PNPDE20070110_012546_000000402054_00317_25421_0924.N1 | 10-JAN-2007 01:25:46 | Dark | 39.500 | 109 | Bet Lup | 2.6770 | 26000. | 79 | 25421 | No |
| 25 | GOM_TRA_1PNPDE20070110_012716_000000392054_00317_25421_0925.N1 | 10-JAN-2007 01:27:16 | Dark | 39.000 | 78 | Alp Lup | 2.3040 | 28000. | 78 | 25421 | No |
| 26 | GOM_TRA_1PNPDE20070110_013007_000000412054_00318_25422_0926.N1 | 10-JAN-2007 01:30:07 | Dark | 41.000 | 4 | Alp1Cen | -0.010000 | 5800.0 | 82 | 25422 | No |
| 27 | GOM_TRA_1PNPDE20070110_013739_000000392054_00318_25422_0927.N1 | 10-JAN-2007 01:37:39 | Dark | 38.500 | 124 | The Car | 2.7640 | 30000. | 77 | 25422 | No |
| 28 | GOM_TRA_1PNPDE20070110_013915_000000372054_00318_25422_0928.N1 | 10-JAN-2007 01:39:15 | Dark | 37.000 | 29 | Bet Car | 1.6720 | 10200. | 74 | 25422 | No |
| 29 | GOM_TRA_1PNPDE20070110_014059_000000472054_00318_25422_0929.N1 | 10-JAN-2007 01:40:59 | Dark | 47.000 | 71 | lot Car | 2.2460 | 7700.0 | 94 | 25422 | No |
| 30 | GOM_TRA_1PNPDE20070110_014222_000000452054_00318_25422_0930.N1 | 10-JAN-2007 01:42:22 | Dark | 45.000 | 41 | Eps Car | 1.8600 | 4100.0 | 90 | 25422 | No |
| 31 | GOM_TRA_1PNPDE20070110_014612_000000422054_00318_25422_0931.N1 | 10-JAN-2007 01:46:12 | Dark | 42.000 | 2 | Alp Car | -0.73600 | 7000.0 | 84 | 25422 | No |
| 32 | GOM_TRA_1PNPDE20070110_014938_000000422054_00318_25422_0932.N1 | 10-JAN-2007 01:49:38 | Straylight | 41.500 | 117 | Pi Pup | 2.7060 | 3800.0 | 83 | 25422 | No |
| 33 | GOM_TRA_1PNPDE20070110_015216_000000442054_00318_25422_0933.N1 | 10-JAN-2007 01:52:16 | Straylight | 44.000 | 23 | 21Eps CMa | 1.5020 | 26000. | 88 | 25422 | No |
| 34 | GOM_TRA_1PNPDE20070110_015343_000000412054_00318_25422_0934.N1 | 10-JAN-2007 01:53:43 | Straylight | 40.500 | 179 | 24Omi2CMa | 3.0320 | 24000. | 81 | 25422 | No |
| 35 | GOM_TRA_1PNPDE20070110_015601_000000482054_00318_25422_0935.N1 | 10-JAN-2007 01:56:01 | Straylight | 48.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 96 | 25422 | No |
| 36 | GOM_TRA_1PNPDE20070110_015829_000000392054_00318_25422_0936.N1 | 10-JAN-2007 01:58:29 | Straylight | 39.000 | 56 | 53Kap Ori | 2.0650 | 30000. | 78 | 25422 | No |
| 37 | GOM_TRA_1PNPDE20070110_020057_000000422054_00318_25422_0937.N1 | 10-JAN-2007 02:00:57 | Straylight | 41.500 | 30 | 46Eps Ori | 1.6940 | 30000. | 83 | 25422 | No |
| 38 | GOM_TRA_1PNPDE20070110_020316_000000462054_00318_25422_0938.N1 | 10-JAN-2007 02:03:16 | Twilight_stray | 46.000 | 14 | 58Alp Ori | 0.87000 | 3000.0 | 92 | 25422 | No |
| 39 | GOM_TRA_1PNPDE20070110_020712_000000382054_00318_25422_0939.N1 | 10-JAN-2007 02:07:12 | Bright | 38.000 | 176 | 23Zet Tau | 3.0200 | 22000. | 76 | 25422 | No |
| 40 | GOM_TRA_1PNPDE20070110_020920_000000372054_00318_25422_0940.N1 | 10-JAN-2007 02:09:20 | Bright | 37.000 | 28 | 12Bet Tau | 1.6500 | 15200. | 74 | 25422 | No |
| 41 | GOM_TRA_1PNPDE20070110_021047_000000362054_00318_25422_0941.N1 | 10-JAN-2007 02:10:47 | Bright | 35.500 | 114 | 3lot Aur | 2.6930 | 4600.0 | 71 | 25422 | No |
| 42 | GOM_TRA_1PNPDE20070110_021401_000000352054_00318_25422_0942.N1 | 10-JAN-2007 02:14:01 | Bright | 35.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 70 | 25422 | No |
| 43 | GOM_TRA_1PNPDE20070110_022628_000000342054_00318_25422_0943.N1 | 10-JAN-2007 02:26:28 | Bright | 33.500 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 67 | 25422 | No |
| 44 | GOM_TRA_1PNPDE20070110_023039_000000442054_00318_25422_1082.N1 | 10-JAN-2007 02:30:39 | Bright | 43.500 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 87 | 25422 | No |
| 45 | GOM_TRA_1PNPDE20070110_023448_000000362054_00318_25422_1083.N1 | 10-JAN-2007 02:34:48 | Bright | 36.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 72 | 25422 | No |
| 46 | GOM_TRA_1PNPDE20070110_023711_000000352054_00318_25422_1084.N1 | 10-JAN-2007 02:37:11 | Bright | 35.000 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 70 | 25422 | No |
| 47 | GOM_TRA_1PNPDE20070110_024325_000000342054_00318_25422_1085.N1 | 10-JAN-2007 02:43:25 | Bright | 34.000 | 133 | 40Zet Her | 2.8070 | 6000.0 | 68 | 25422 | No |
| 48 | GOM_TRA_1PNPDE20070110_024626_000000352054_00318_25422_1086.N1 | 10-JAN-2007 02:46:26 | Bright | 35.000 | 127 | 27Bet Her | 2.7810 | 4700.0 | 70 | 25422 | No |
| 49 | GOM_TRA_1PNPDE20070110_025350_000000362054_00318_25422_1087.N1 | 10-JAN-2007 02:53:50 | Bright | 36.000 | 120 | 1Del Oph | 2.7340 | 3200.0 | 72 | 25422 | No |

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



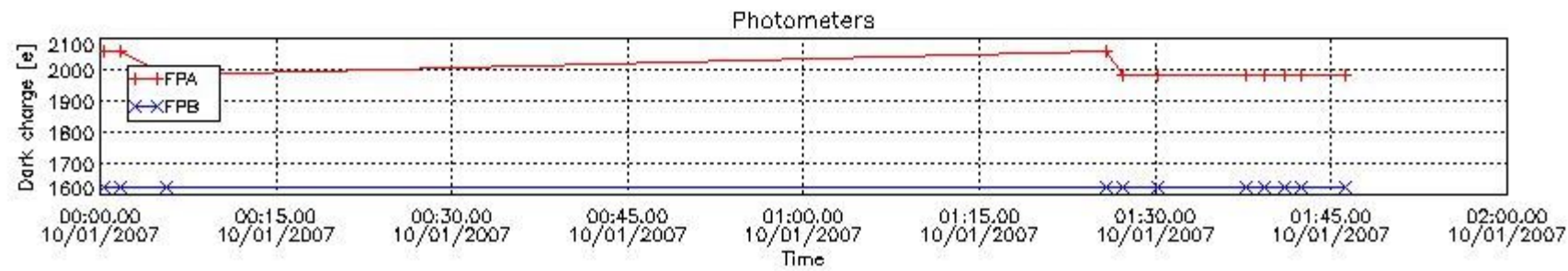
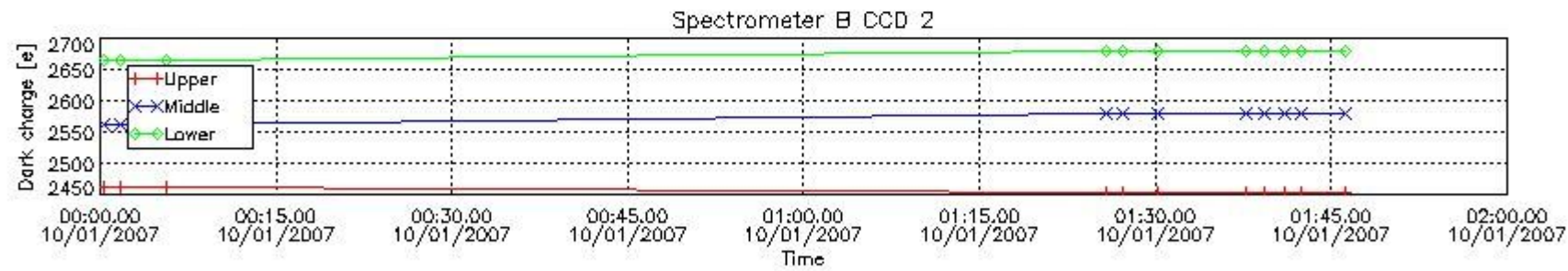
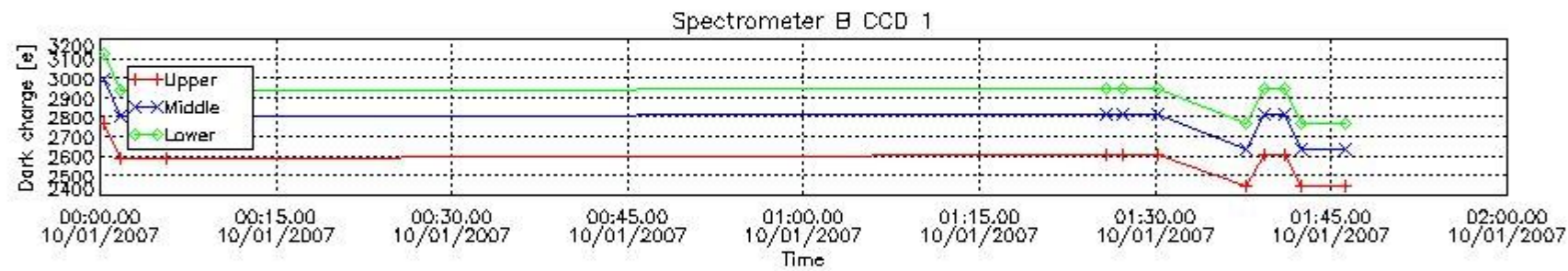
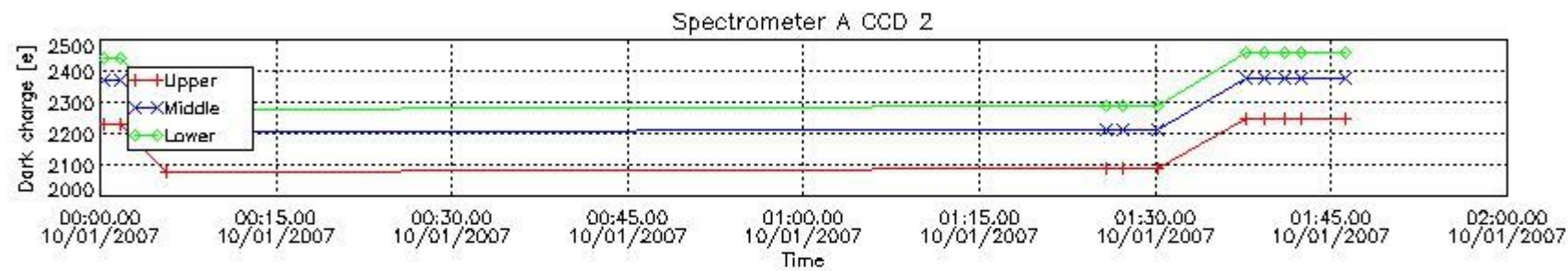
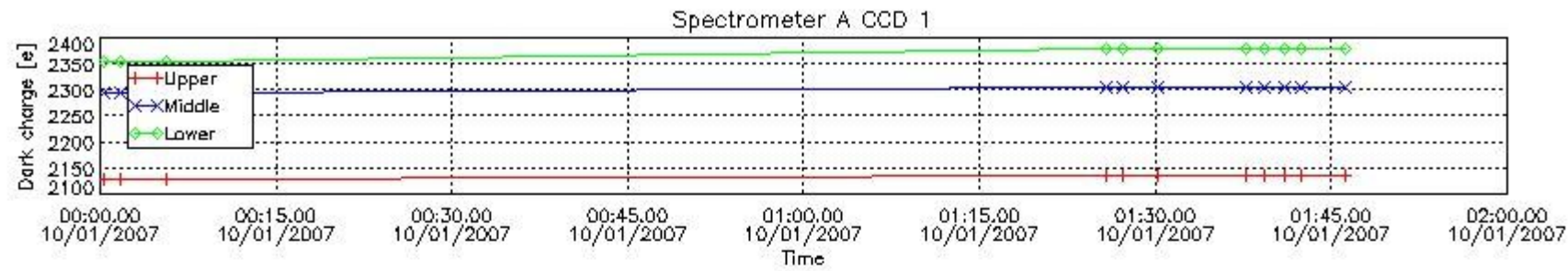
4. Overview of dark signal processing per product

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

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

4.1 All products used the DSA observation for the DC computation

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



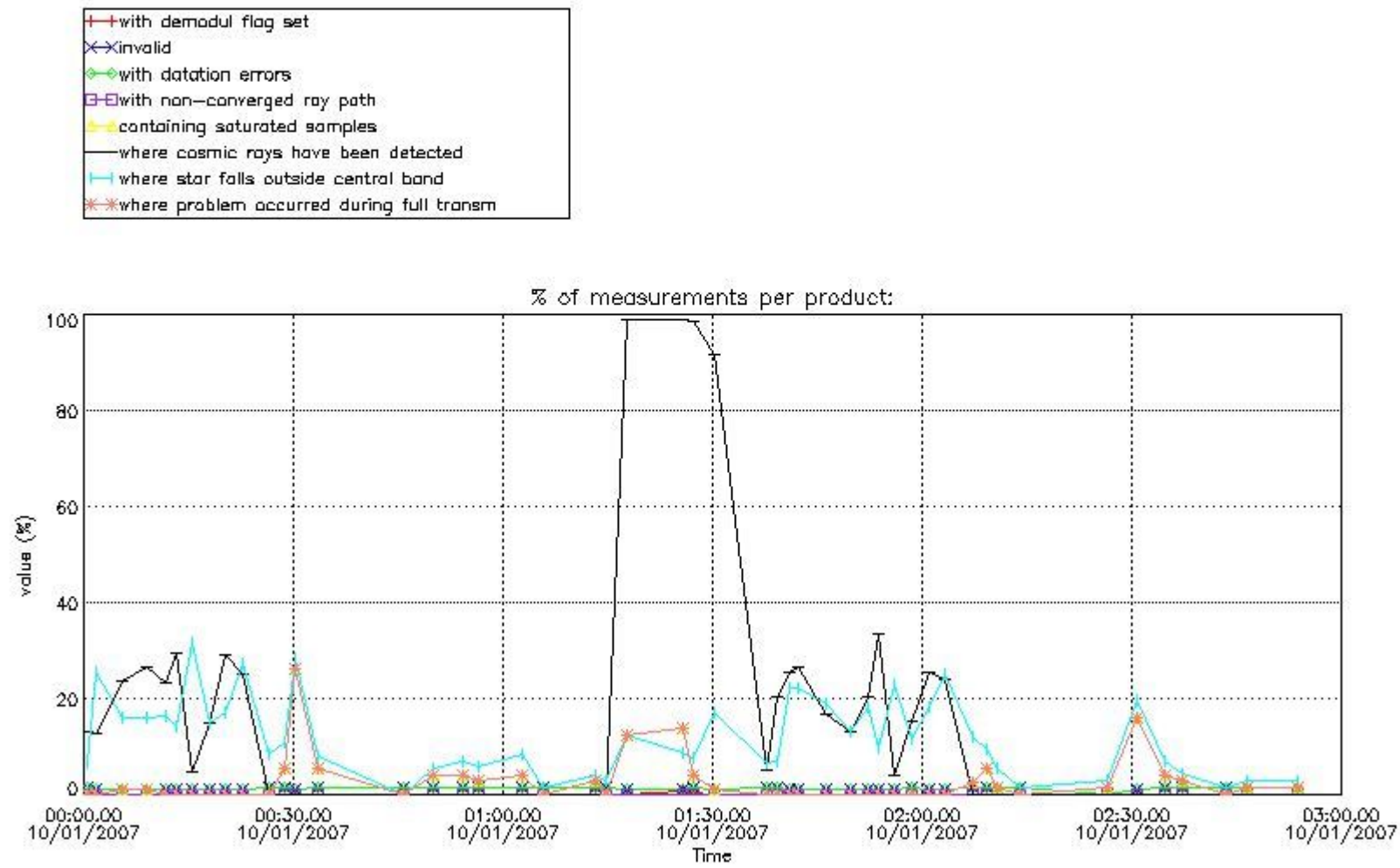
5. Demodulation flag and quality information monitoring

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

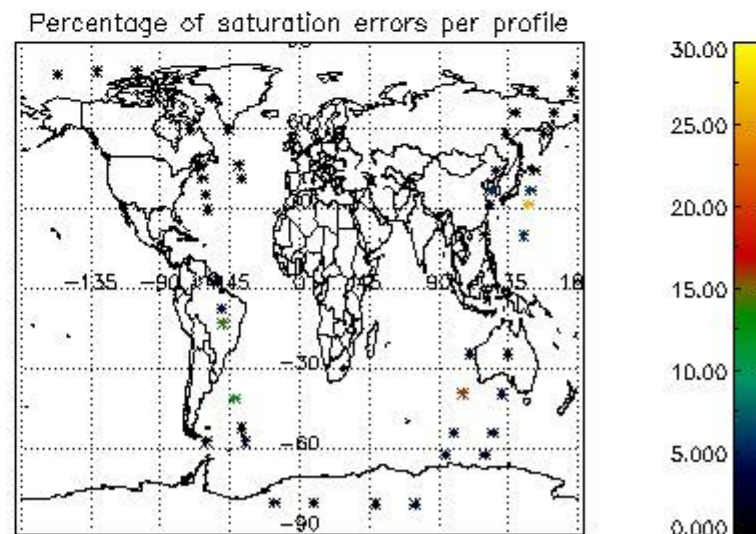
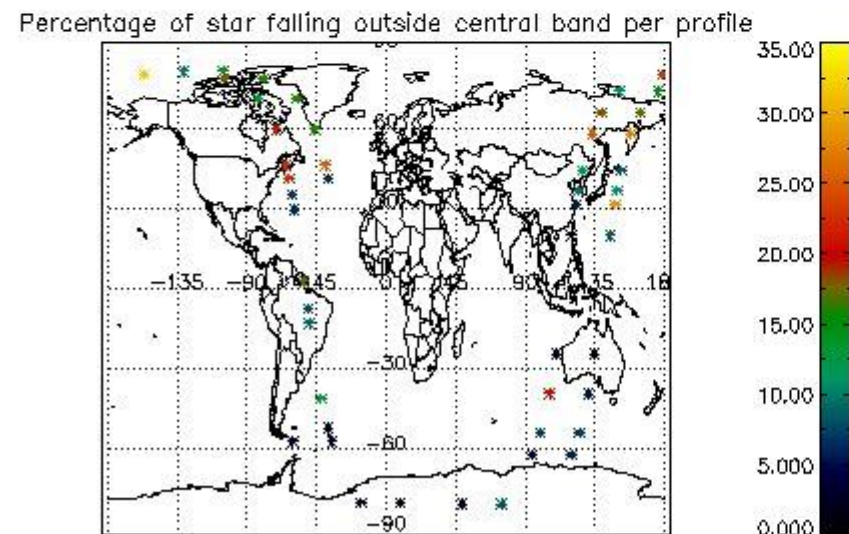
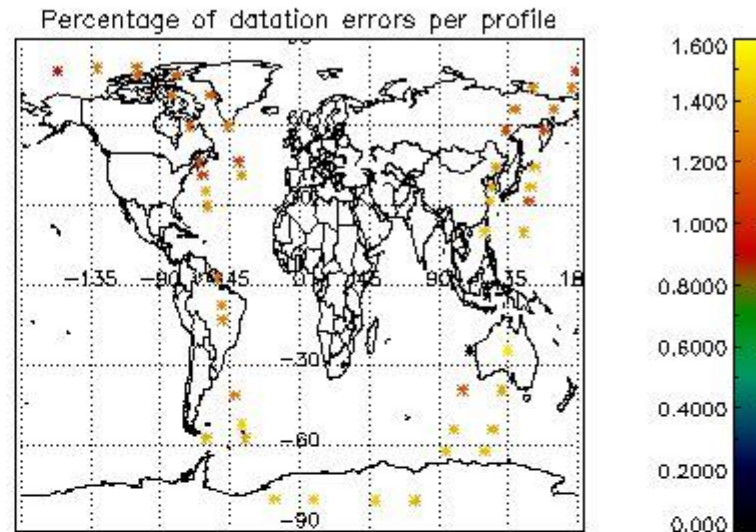
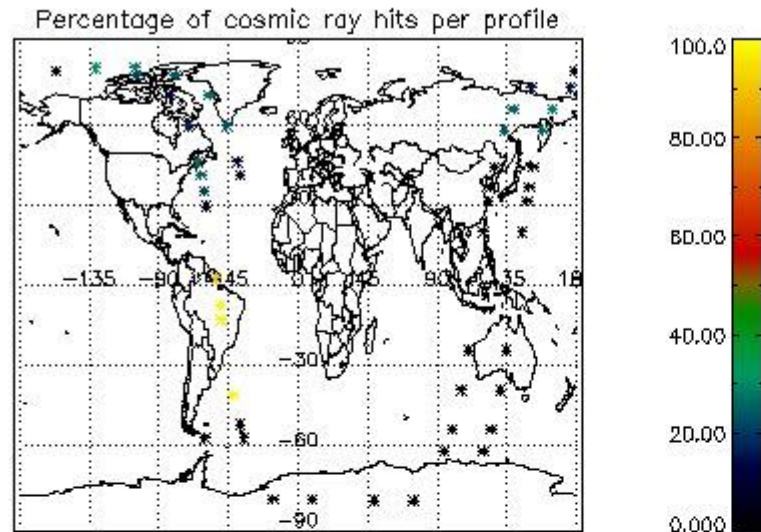
5.1 Percentage of products during reporting period with:

| | |
|---|-----------|
| At least one measurement with demodulation flag set: | 12.2449 % |
| Reference spectrum computed from DB: | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used: | 0.00000 % |

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



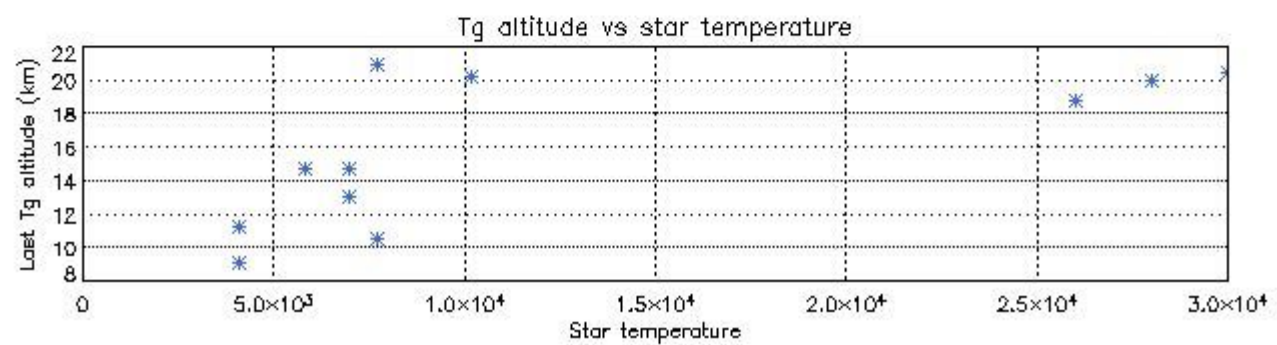
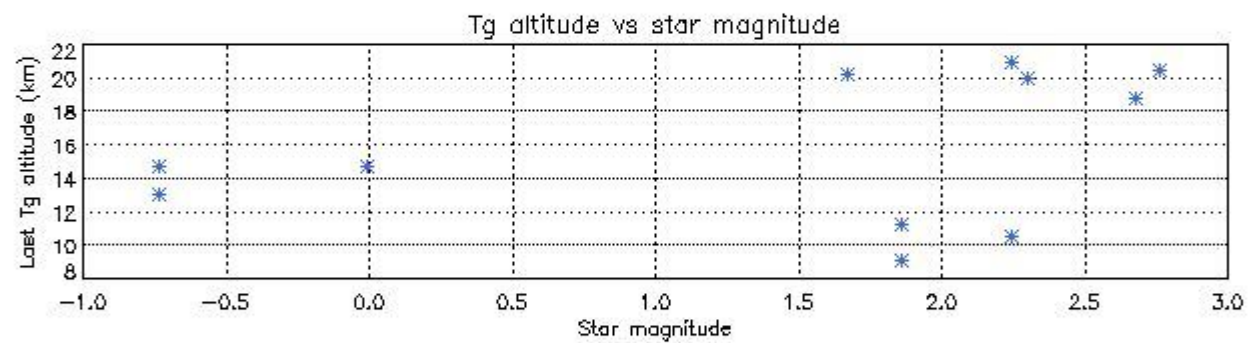
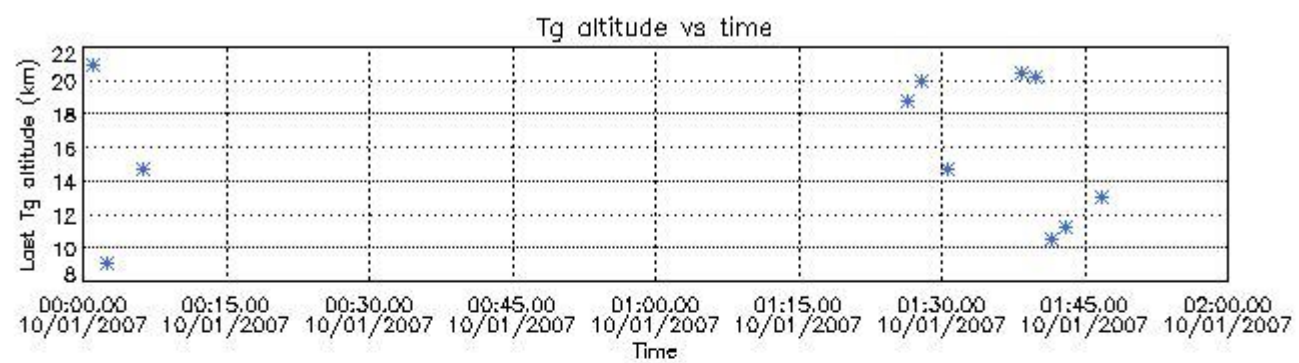
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean: | 15.781 | 20.725 | NaN |
| St. deviation: | 4.4305 | 4.2913 | NaN |
| Maximum: | 20.975 | 28.575 | NaN |
| Minimum: | 9.1260 | 8.7270 | NaN |
| Number of data: | 11.000 | 24.000 | NaN |

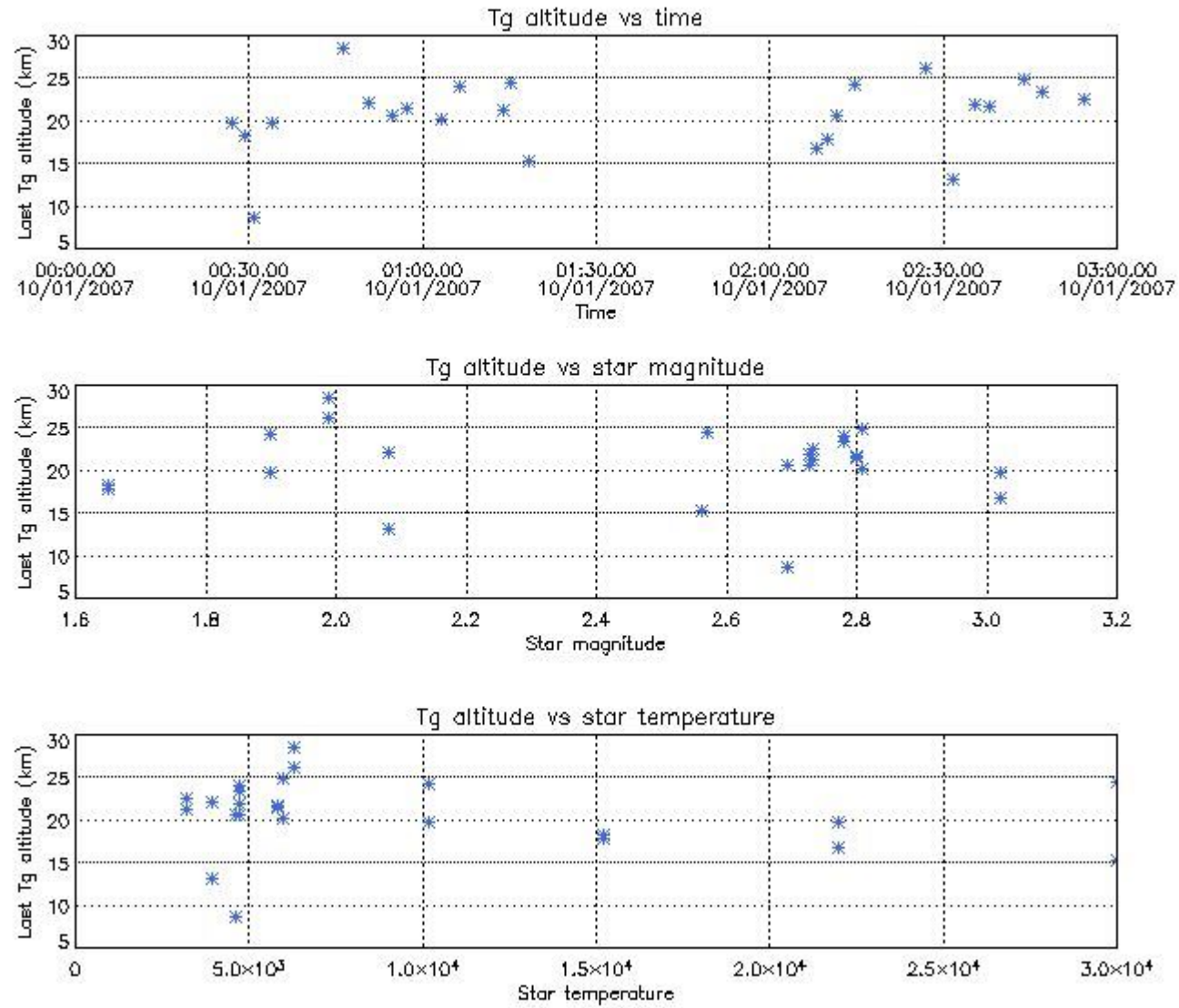
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

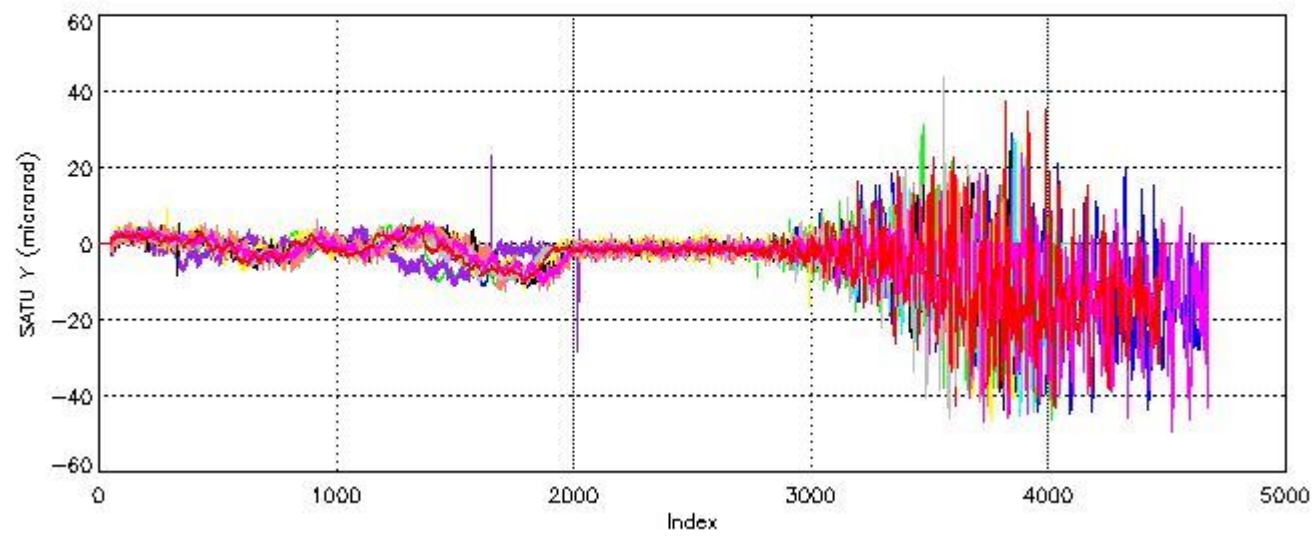
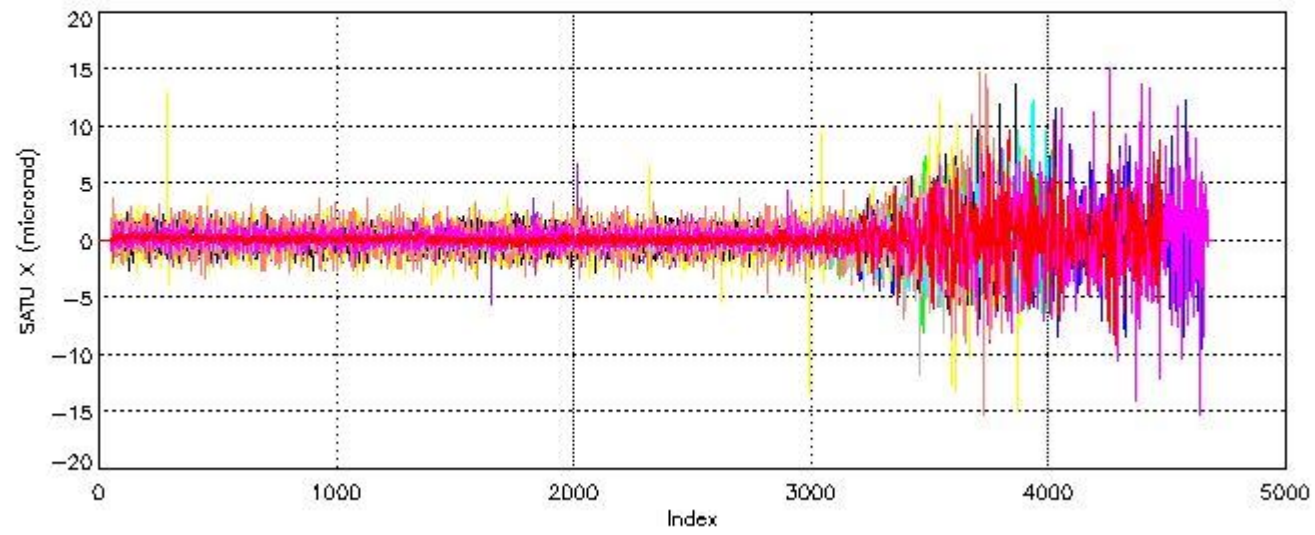


7. Star Acquisition and Tracking Unit (SATU)

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: | 0.14295 | -0.18764 | 0.027218 | -0.73864 |
| St. deviation: | 0.50506 | 2.2942 | 0.69258 | 2.1282 |
| Maximum: | 13.000 | 9.6000 | 5.1000 | 7.7000 |
| Minimum: | -3.9000 | -8.2000 | -4.5000 | -10.700 |

| | | | | |
|-----------------|--------|--------|--------|--------|
| Number of data: | 9900.0 | 9900.0 | 19750. | 19750. |
|-----------------|--------|--------|--------|--------|

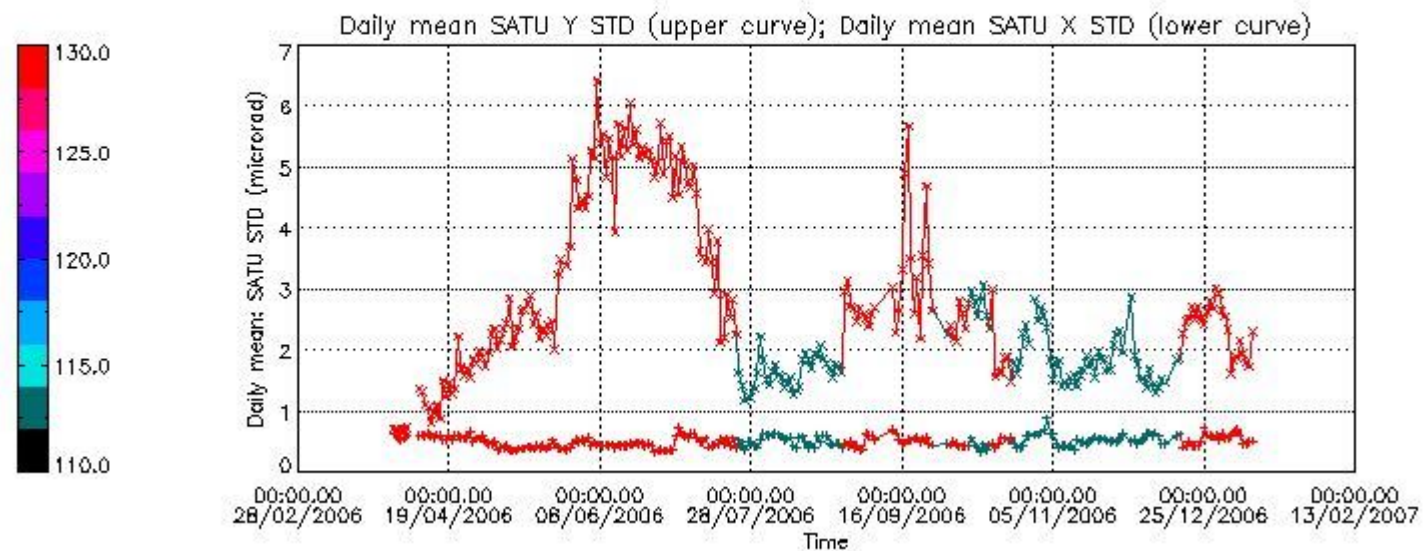
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

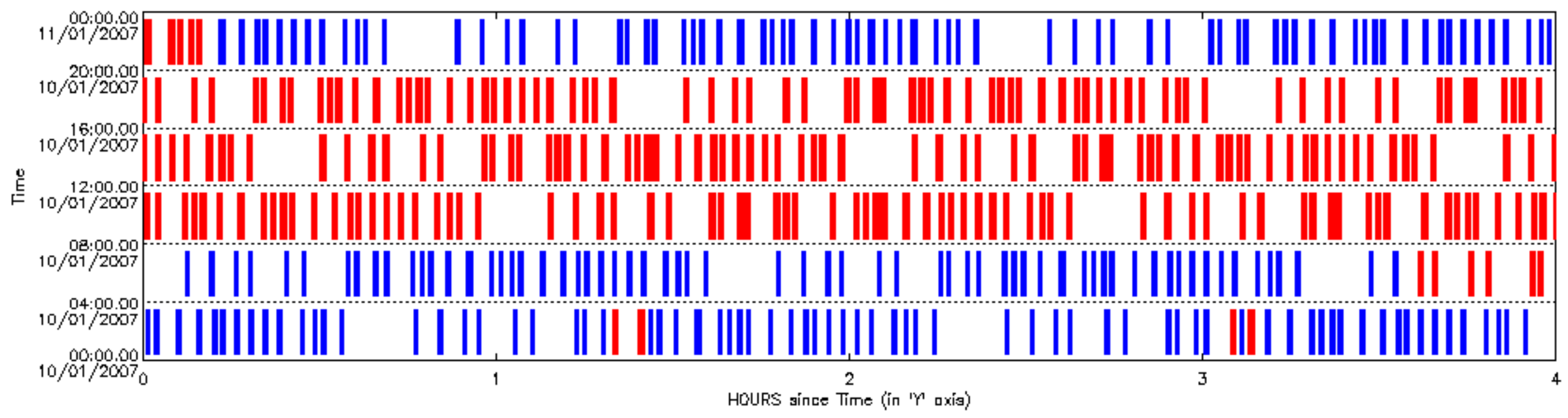
Lower curve: STD of SATU X axis

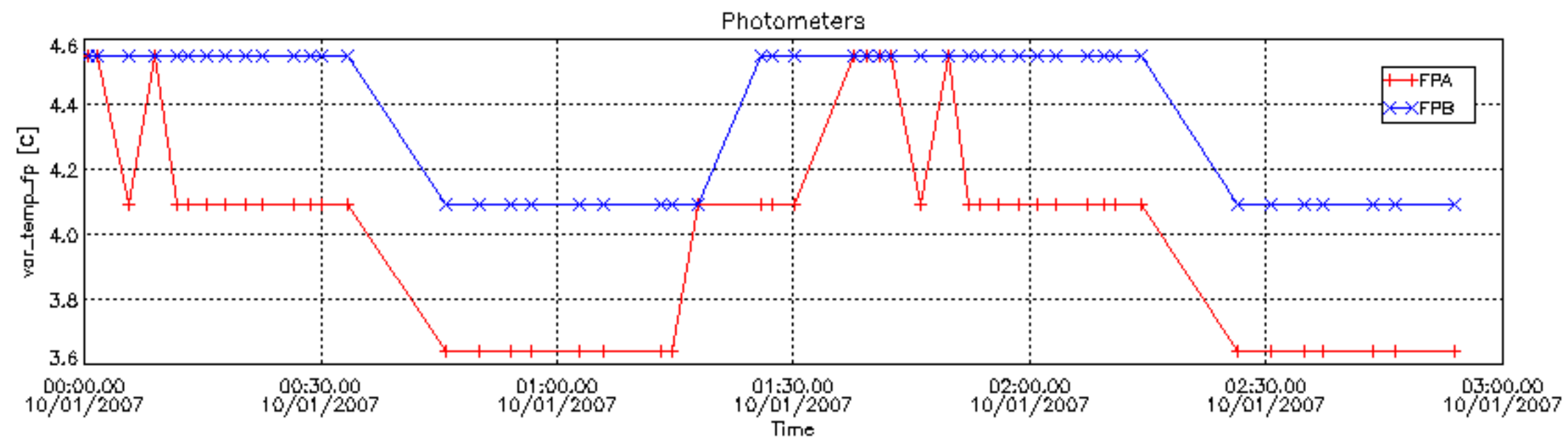
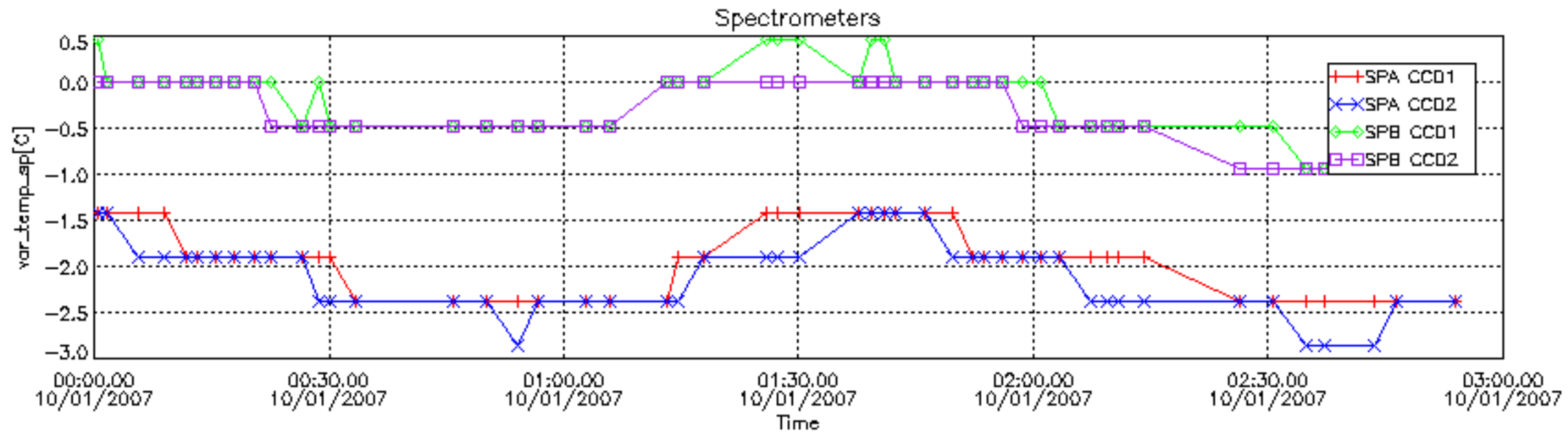


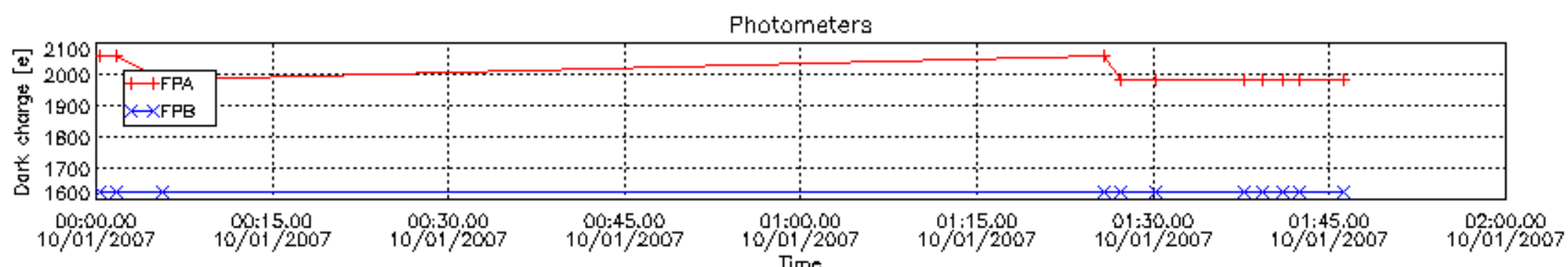
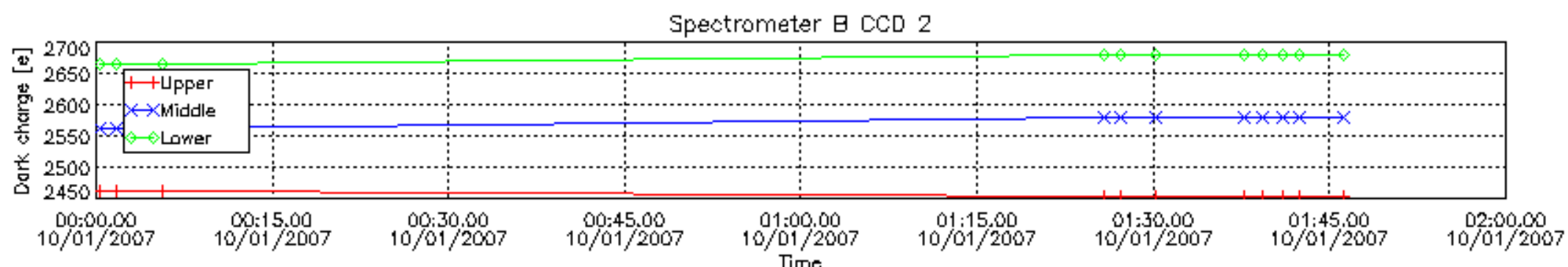
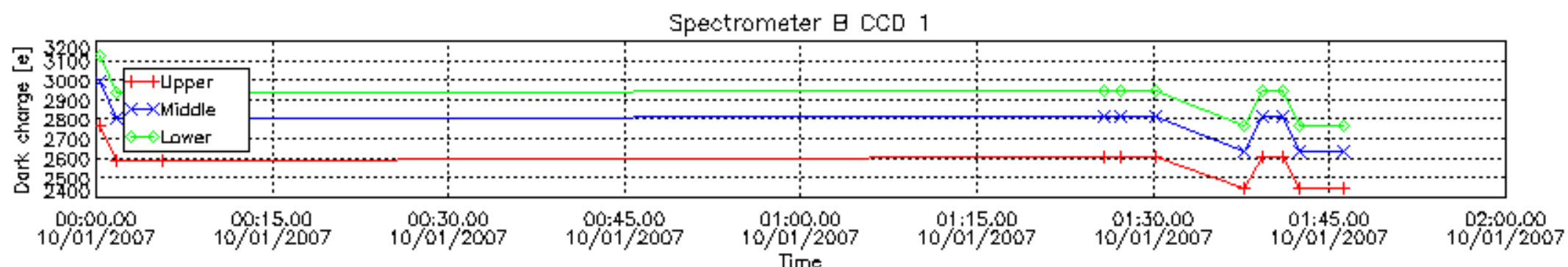
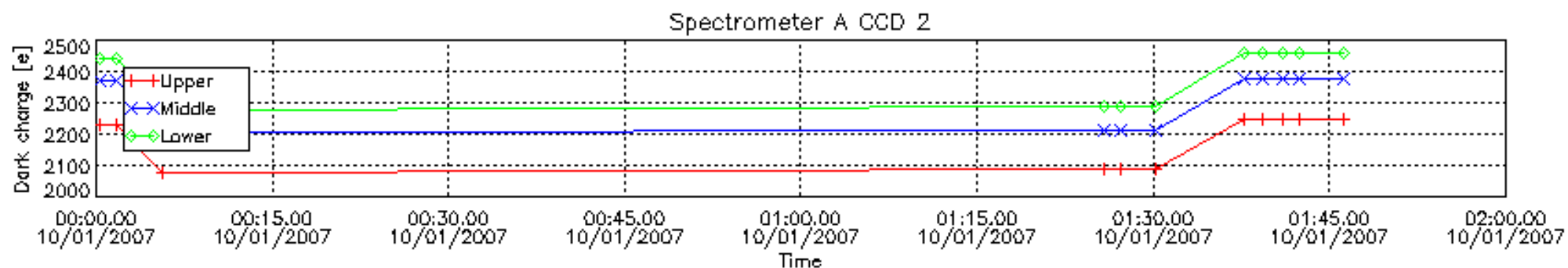
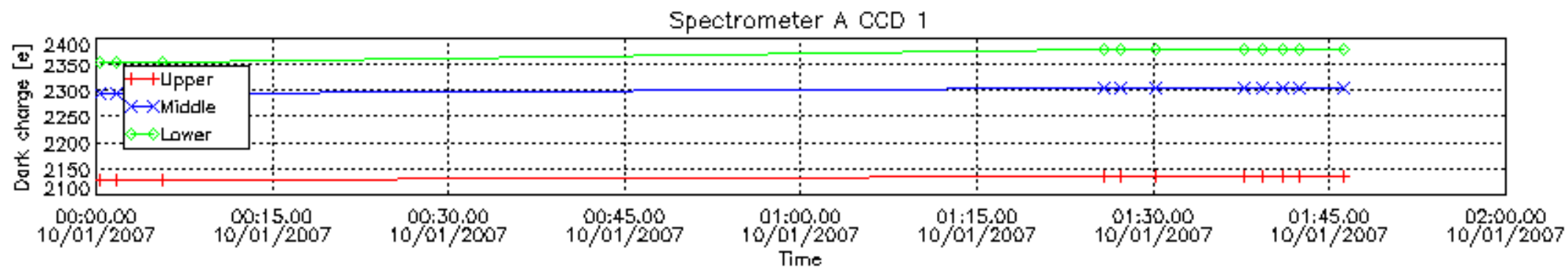
8. Auxiliary Data Files used for the production reported in section 2.4

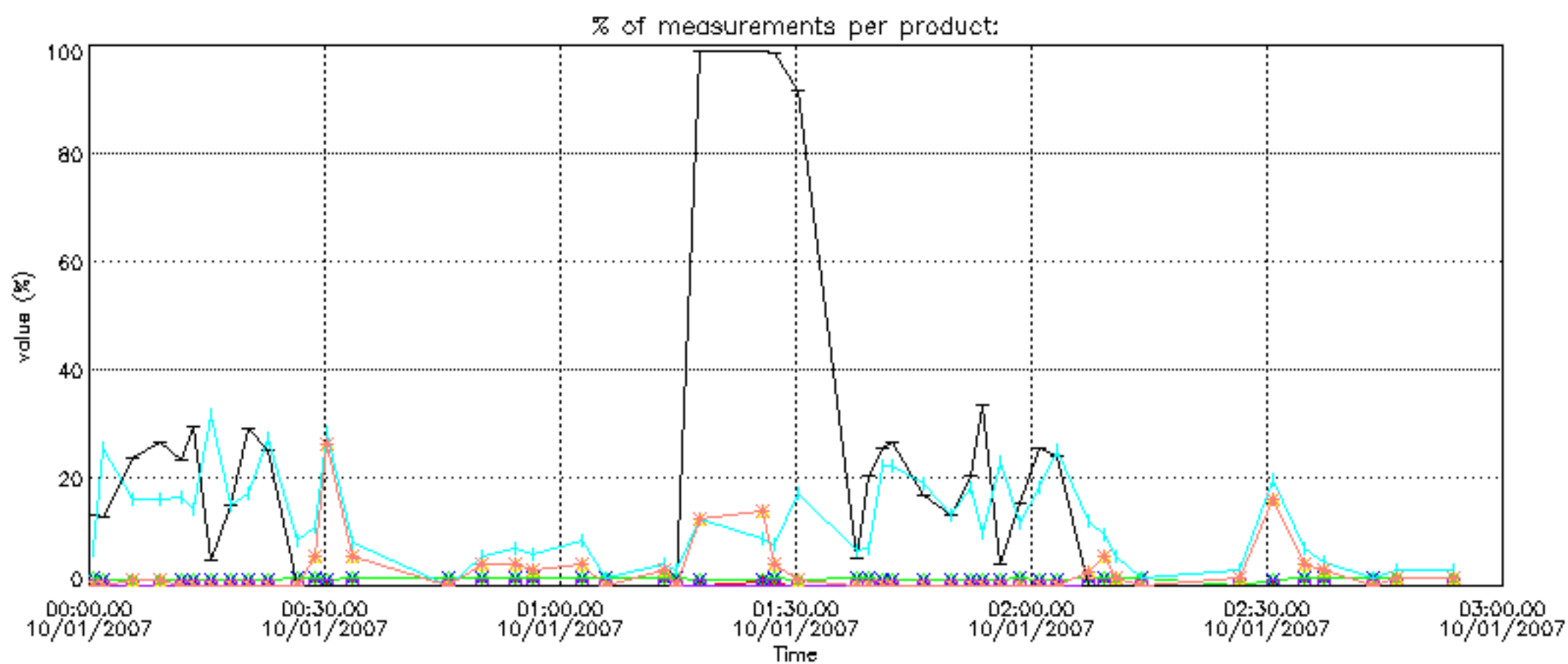
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000 | 1 | 10-JAN-2007 00:00:22 |
| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20070105_103648_20070104_000000_20100101_000000 | 1 | 10-JAN-2007 00:00:22 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000 | 1 | 10-JAN-2007 00:00:22 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 10-JAN-2007 00:00:22 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000 | 1 | 10-JAN-2007 00:00:22 |
| ECMWF_FILE | AUX_ECF_AXNECM20070109_062509_20070109_210000_20070110_090000 | 1 | 10-JAN-2007 00:00:22 |
| OPTIONAL_ECMWF_FILE | MISSING | 1 | 10-JAN-2007 00:00:22 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20070109_233230_000057382054_00316_25420_2543.N1 | 1 | 10-JAN-2007 00:00:22 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20070110_011327_000041442054_00317_25421_2544.N1 | 44 | 10-JAN-2007 02:30:39 |

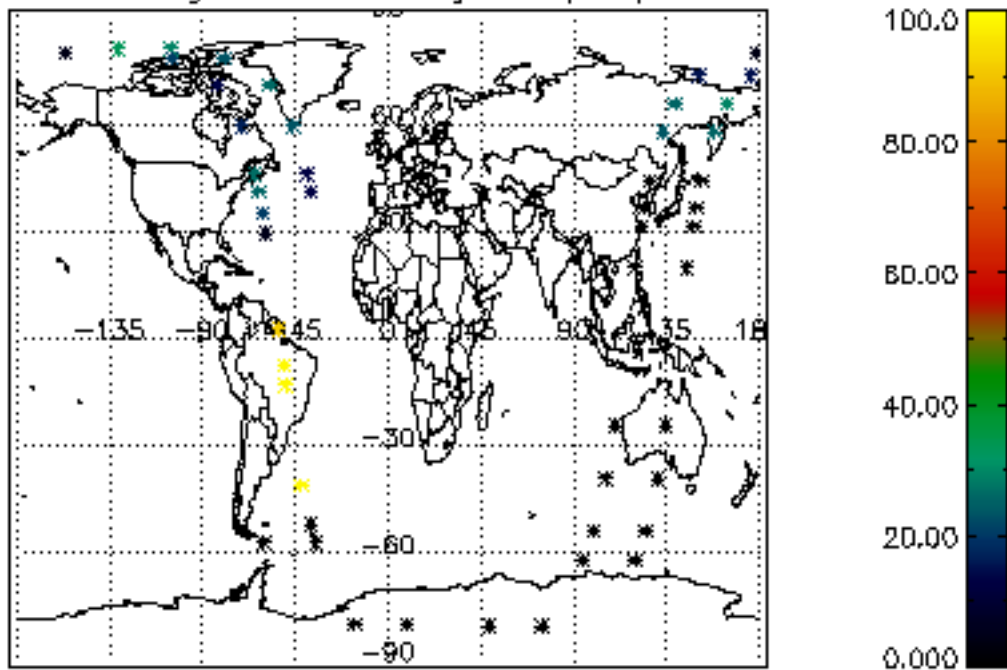




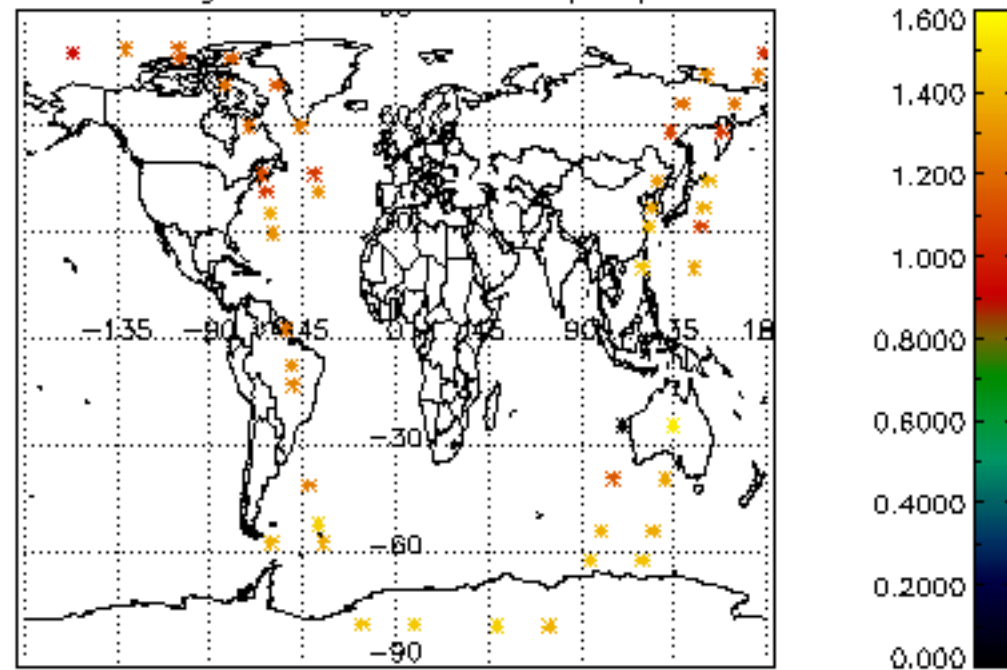




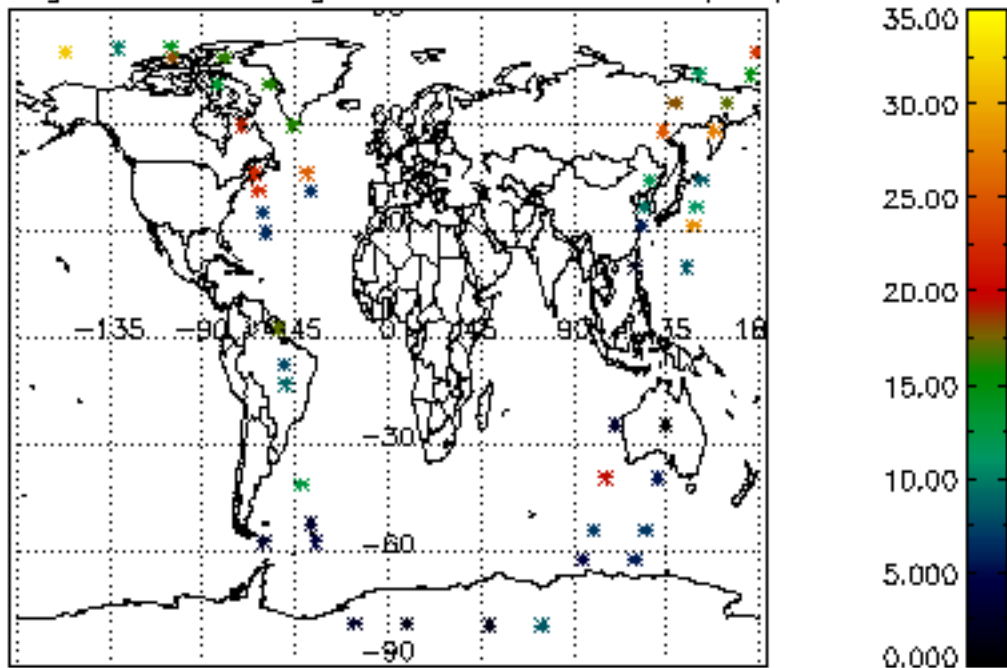
Percentage of cosmic ray hits per profile



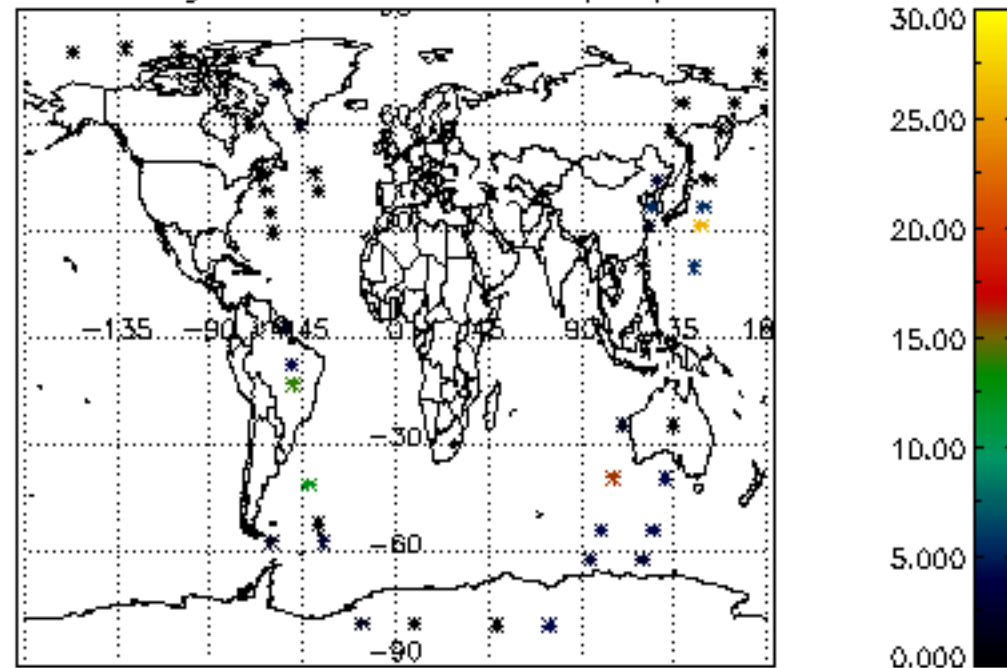
Percentage of datation errors per profile



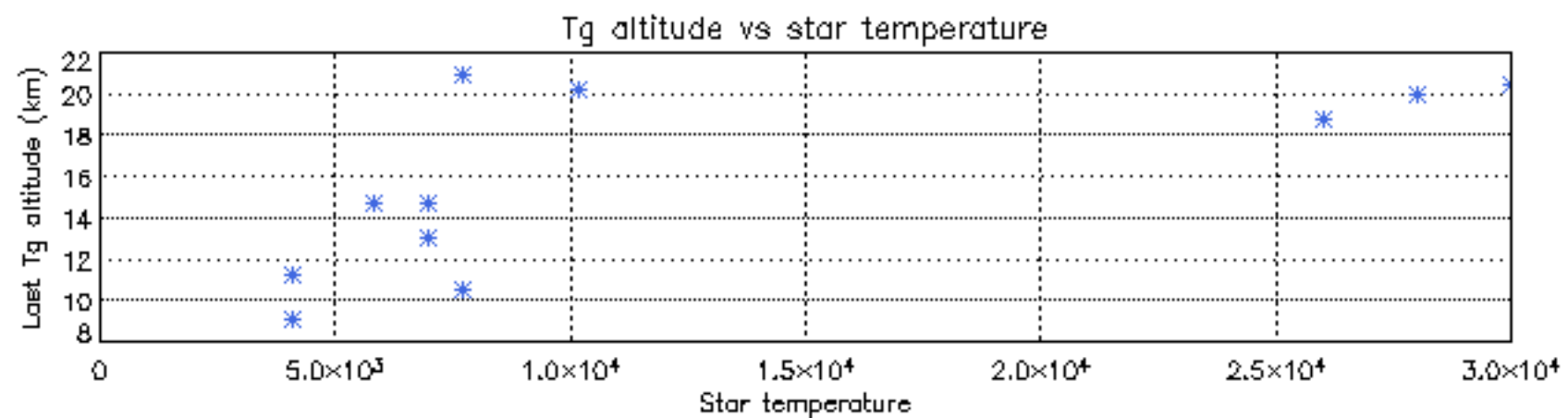
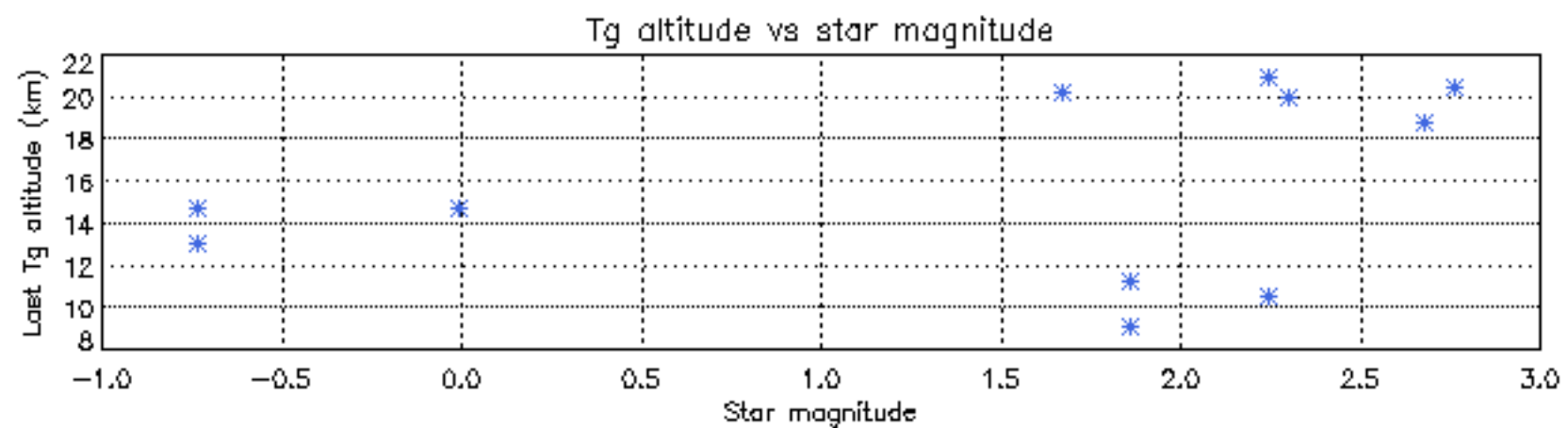
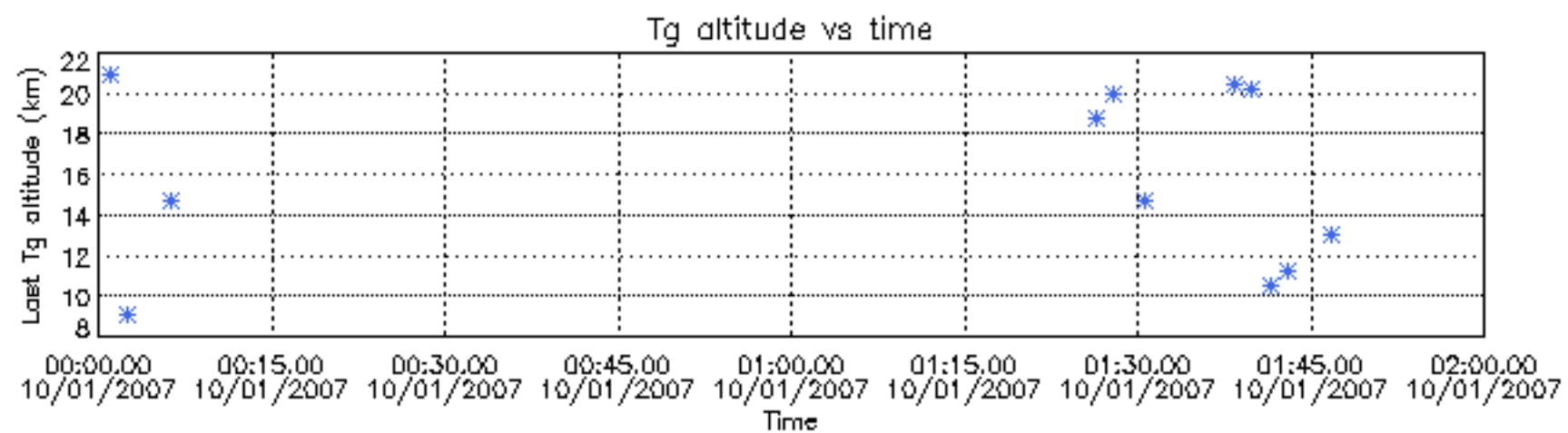
Percentage of star falling outside central band per profile



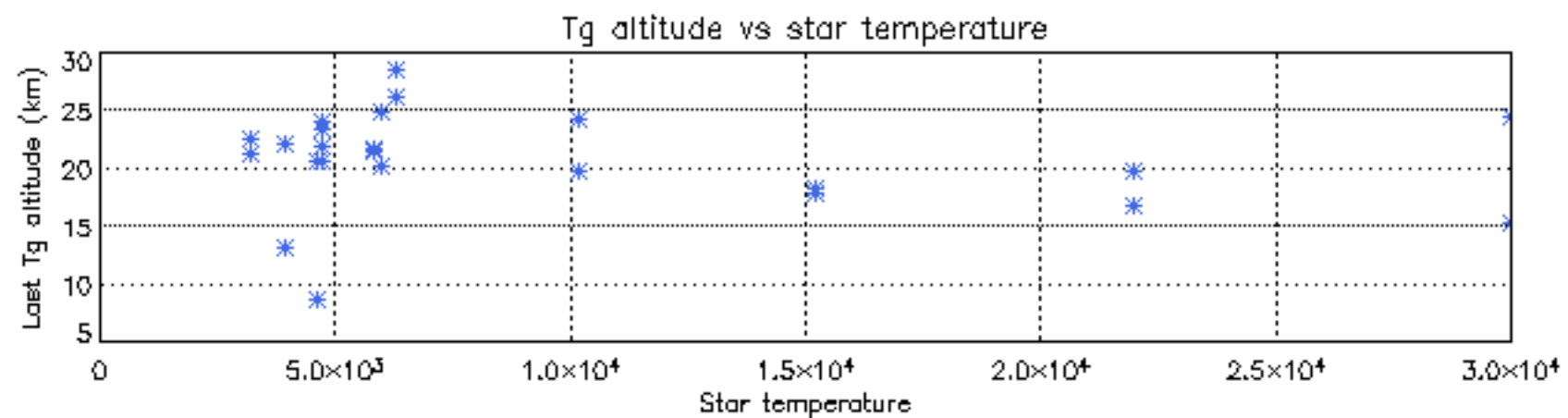
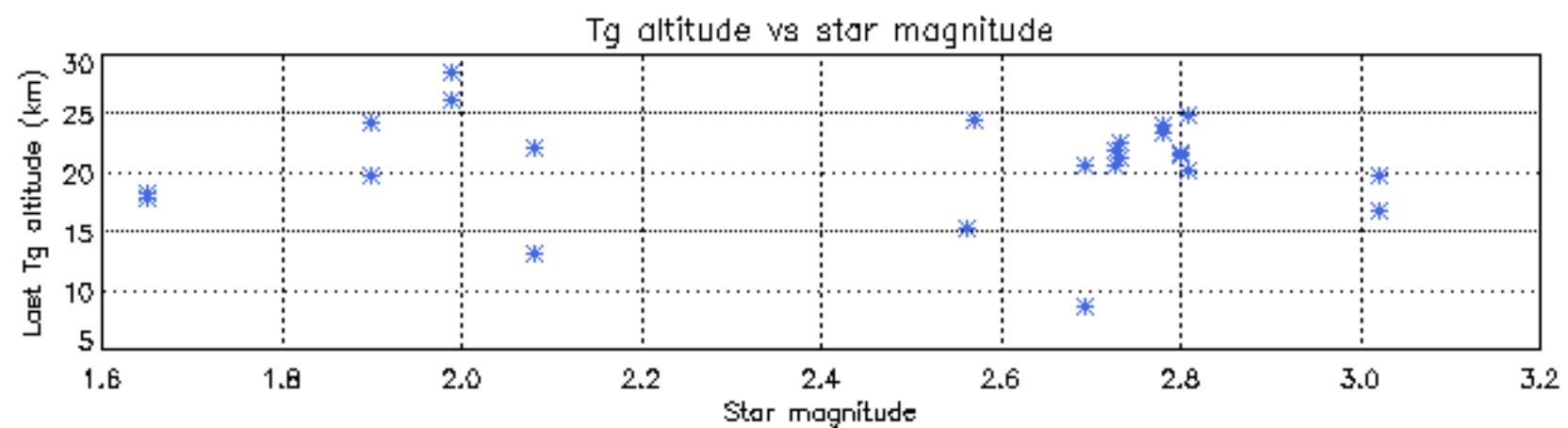
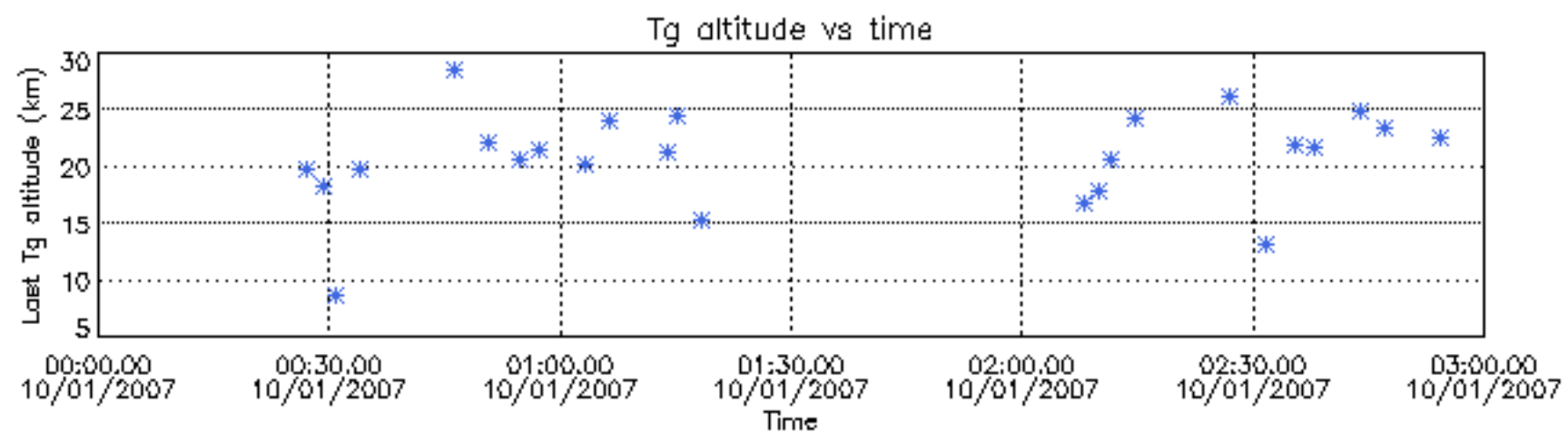
Percentage of saturation errors per profile

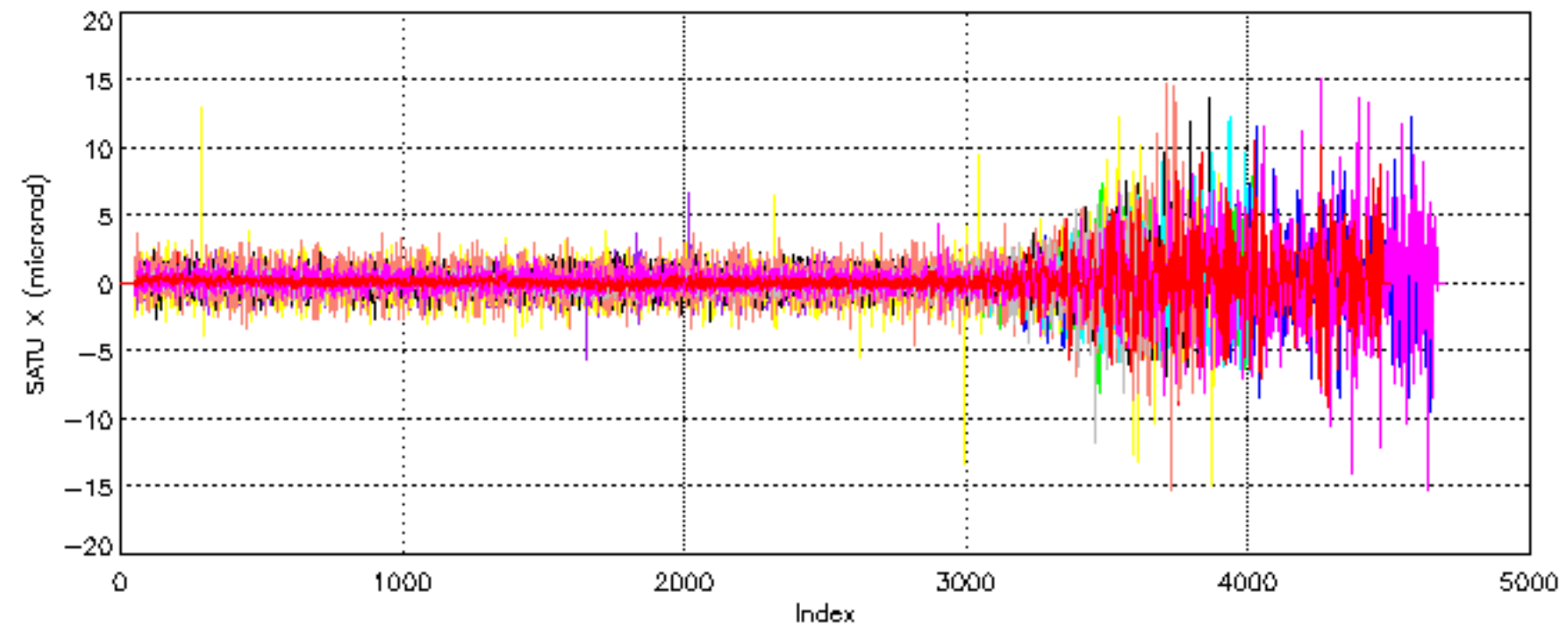


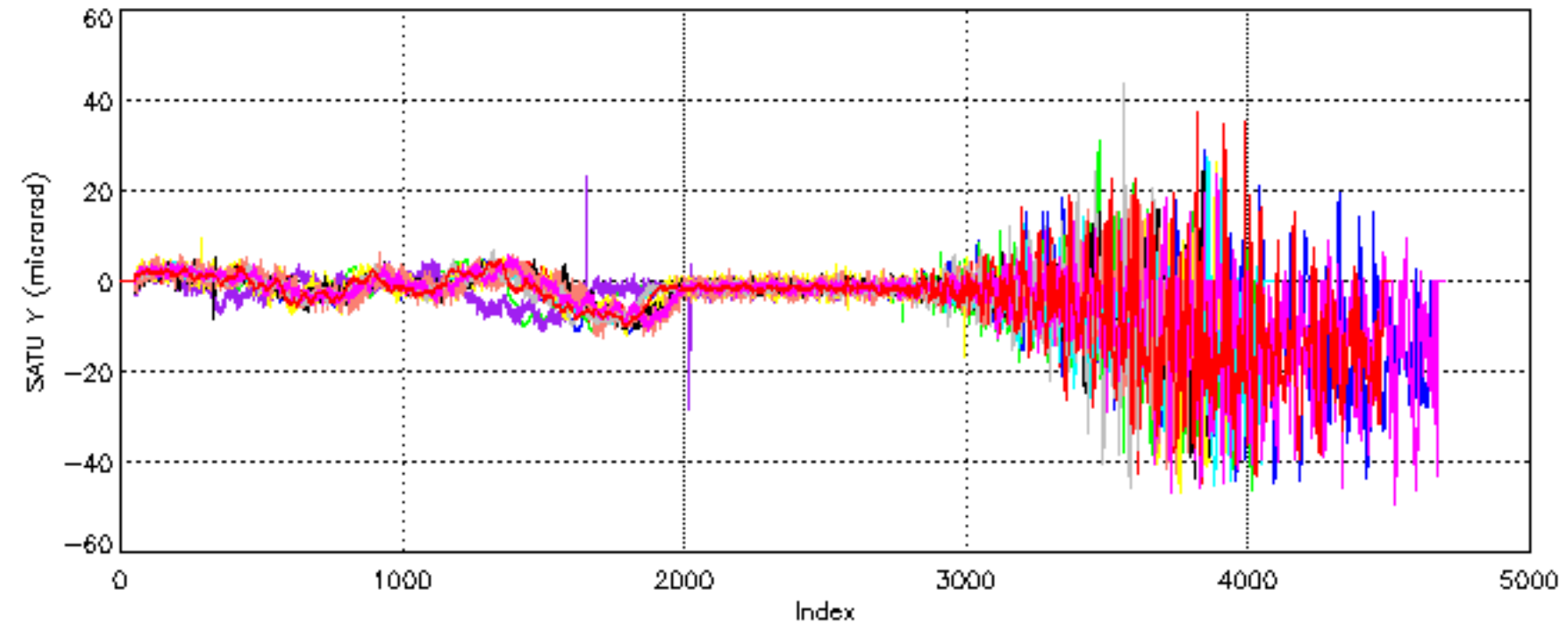
Tangent altitude at which the star is lost

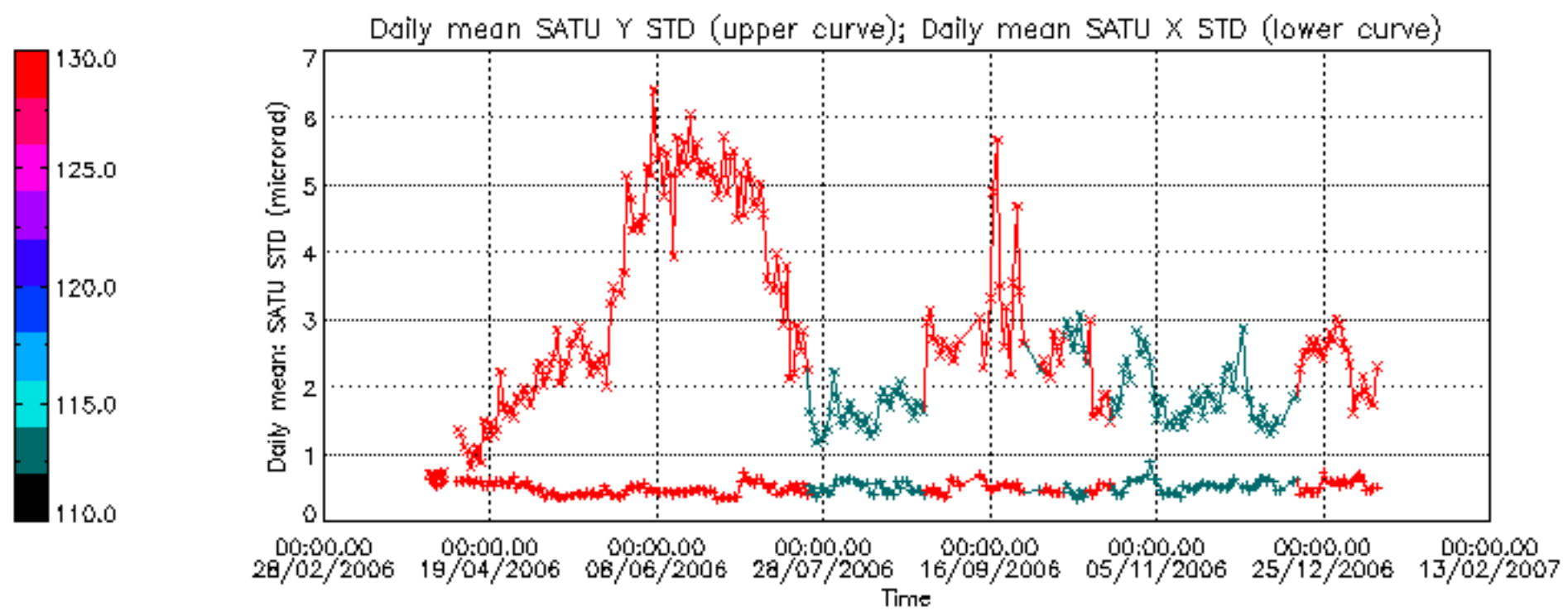


Tangent altitude at which the star is lost









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 3; -105.1; 01-JAN-2007 01:10:25; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;25292
 4; 38.6; 01-JAN-2007 01:12:49; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25293
 5; 228.2; 01-JAN-2007 01:15:58; Dark ; 49.0; 12; Alp1Cru ; 0.77; 30000;occ; 98; 0;25293
 6; 429.2; 01-JAN-2007 01:19:19; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25293
 7; 546.4; 01-JAN-2007 01:21:17; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;25293
 8; 629.3; 01-JAN-2007 01:22:40; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;25293
 9; 731.4; 01-JAN-2007 01:24:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25293
 10; 978.2; 01-JAN-2007 01:28:28; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;25293
 11; 1171.6; 01-JAN-2007 01:31:42; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;25293
 12; 1340.2; 01-JAN-2007 01:34:30; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;25293
 13; 1569.2; 01-JAN-2007 01:38:19; Dark ; 43.0; 47; 2Bet CMA ; 1.98; 28000;occ; 86; 0;25293
 14; 1769.4; 01-JAN-2007 01:41:40; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;25293
 15; 1881.5; 01-JAN-2007 01:43:32; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;25293
 16; 2033.3; 01-JAN-2007 01:46:04; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;25293
 17; 2271.5; 01-JAN-2007 01:50:02; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25293
 18; 2397.8; 01-JAN-2007 01:52:08; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;25293
 19; 2472.5; 01-JAN-2007 01:53:23; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;25293
 20; 2568.2; 01-JAN-2007 01:54:58; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;25293
 21; 2693.1; 01-JAN-2007 01:57:03; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;25293
 22; 3423.2; 01-JAN-2007 02:09:13; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;25293
 23; 3691.3; 01-JAN-2007 02:13:42; Bright; 5.5; 60; 7Bet UMi ; 2.08; 3950;occ; 11; 0;25293

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1; -2344.6; 01-JAN-2007 02:13:42; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25293
 2; -2114.0; 01-JAN-2007 02:17:32; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25293
 3; -1490.4; 01-JAN-2007 02:27:56; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;25293
 4; -1146.0; 01-JAN-2007 02:33:40; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;25293
 5; -842.6; 01-JAN-2007 02:38:44; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;25293
 6; -281.2; 01-JAN-2007 02:48:05; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25293
 7; -192.8; 01-JAN-2007 02:49:33; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;25293
 8; -104.3; 01-JAN-2007 02:51:02; Dark ; 39.0; 95; Zet Cen ; 2.55; 26000;occ; 78; 0;25293
 9; 39.0; 01-JAN-2007 02:53:25; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;25294
 10; 228.9; 01-JAN-2007 02:56:35; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;25294
 11; 429.7; 01-JAN-2007 02:59:56; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25294
 12; 547.0; 01-JAN-2007 03:01:53; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;25294
 13; 629.9; 01-JAN-2007 03:03:16; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;25294
 14; 732.0; 01-JAN-2007 03:04:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25294
 15; 978.5; 01-JAN-2007 03:09:05; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;25294
 16; 1172.1; 01-JAN-2007 03:12:18; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;25294
 17; 1340.5; 01-JAN-2007 03:15:07; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;25294
 18; 1569.2; 01-JAN-2007 03:18:55; Dark ; 44.5; 47; 2Bet CMA ; 1.98; 28000;occ; 89; 0;25294
 19; 1769.6; 01-JAN-2007 03:22:16; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;25294
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 21; 2033.2; 01-JAN-2007 03:26:39; Dark ; 51.5; 14; 58Alp Ori ; 0.87; 3000;occ; 103; 0;25294
 22; 2271.5; 01-JAN-2007 03:30:38; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;25294
 23; 2397.7; 01-JAN-2007 03:32:44; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;25294
 24; 2472.6; 01-JAN-2007 03:33:59; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;25294
 25; 2567.8; 01-JAN-2007 03:35:34; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;25294
 26; 2693.1; 01-JAN-2007 03:37:39; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;25294
 27; 3423.2; 01-JAN-2007 03:49:49; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;25294

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 2; -2114.0; 01-JAN-2007 03:58:08; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;25294
 3; -1614.0; 01-JAN-2007 04:06:28; Bright; 28.0; 133; 40Zet Her ; 2.81; 6000;occ; 56; 0;25294
 4; -1490.3; 01-JAN-2007 04:08:32; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;25294
 5; -1145.6; 01-JAN-2007 04:14:17; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;25294
 6; -842.4; 01-JAN-2007 04:19:20; Bright; 55.0; 104; 27Bet Lib ; 2.61; 13100;occ; 110; 0;25294
 7; -683.3; 01-JAN-2007 04:21:59; Dark ; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;25294
 8; -280.8; 01-JAN-2007 04:28:41; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25294
 9; -192.3; 01-JAN-2007 04:30:10; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;25294
 10; -103.8; 01-JAN-2007 04:31:38; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;25294
 11; 39.4; 01-JAN-2007 04:34:02; Dark ; 49.5; 10; Bet Cen ; 0.61; 28000;occ; 99; 0;25295
 12; 229.3; 01-JAN-2007 04:37:11; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;25295
 13; 430.3; 01-JAN-2007 04:40:32; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;25295
 14; 547.2; 01-JAN-2007 04:42:29; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;25295
 15; 630.4; 01-JAN-2007 04:43:53; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;25295

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16; 732.5; 01-JAN-2007 04:45:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25295
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18; 1172.4; 01-JAN-2007 04:52:55; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;25295
19; 1340.8; 01-JAN-2007 04:55:43; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;25295
20; 1569.4; 01-JAN-2007 04:59:32; Dark ; 43.5; 47; 2Bet CMA ; 1.98; 28000;occ; 87; 0;25295
21; 1769.7; 01-JAN-2007 05:02:52; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;25295
22; 1881.5; 01-JAN-2007 05:04:44; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;25295
23; 2033.2; 01-JAN-2007 05:07:15; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;25295
24; 2271.4; 01-JAN-2007 05:11:14; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25295
25; 2397.7; 01-JAN-2007 05:13:20; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;25295
26; 2472.7; 01-JAN-2007 05:14:35; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;25295
27; 2567.6; 01-JAN-2007 05:16:10; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;25295
28; 2693.0; 01-JAN-2007 05:18:15; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;25295
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2; -2114.0; 01-JAN-2007 05:38:44; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25295
3; -1614.0; 01-JAN-2007 05:47:04; Bright; 28.0; 133; 40Zet Her ; 2.81; 6000;occ; 56; 0;25295
4; -1490.2; 01-JAN-2007 05:49:08; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;25295
5; -1145.4; 01-JAN-2007 05:54:53; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;25295
6; -841.9; 01-JAN-2007 05:59:56; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;25295
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11; 39.8; 01-JAN-2007 06:14:38; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;25296
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13; 430.8; 01-JAN-2007 06:21:09; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25296
14; 547.5; 01-JAN-2007 06:23:06; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25296
15; 630.9; 01-JAN-2007 06:24:29; Dark ; 47.0; 71; Iot Car ; 2.25; 7700;occ; 94; 0;25296
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19; 1341.0; 01-JAN-2007 06:36:19; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;25296
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24; 2271.2; 01-JAN-2007 06:51:49; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25296
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27; 2567.5; 01-JAN-2007 06:56:46; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;25296
28; 2692.9; 01-JAN-2007 06:58:51; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;25296
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3; 1343.1; 01-JAN-2007 20:01:09; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;25304
4; 1582.7; 01-JAN-2007 20:05:08; Dark ; 33.0; 1; 9Alp CMA ;-1.44; 11000;occ; 66; 0;25304
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16; 4423.4; 01-JAN-2007 20:52:29; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;25304
17; 4547.5; 01-JAN-2007 20:54:33; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;25304
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3; -837.7; 01-JAN-2007 21:05:24; Bright; 45.5; 104; 27Bet Lib ; 2.61; 13100;occ; 91; 0;25304
4; -677.4; 01-JAN-2007 21:08:04; Dark ; 45.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 91; 0;25304

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5; -276.5; 01-JAN-2007 21:14:45; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25304
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8; 43.3; 01-JAN-2007 21:20:05; Dark ; 40.5; 10; Bet Cen ; 0.61; 28000;occ; 81; 0;25305
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24; 2564.9; 01-JAN-2007 22:02:06; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;25305
25; 2692.0; 01-JAN-2007 22:04:13; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;25305
26; 3423.2; 01-JAN-2007 22:16:25; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;25305
27; 3690.0; 01-JAN-2007 22:20:51; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;25305
28; 3922.2; 01-JAN-2007 22:24:44; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;25305
29; 4423.4; 01-JAN-2007 22:33:05; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;25305
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31; 4893.1; 01-JAN-2007 22:40:55; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;25305
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22; 6147.2; 12-JAN-2007 10:31:36; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;25455
23; 6302.5; 12-JAN-2007 10:34:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25455
24; 6548.4; 12-JAN-2007 10:38:17; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25455
25; 6638.6; 12-JAN-2007 10:39:47; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25455
26; 6747.4; 12-JAN-2007 10:41:36; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;25455
27; 6826.9; 12-JAN-2007 10:42:55; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;25455
28; 7025.6; 12-JAN-2007 10:46:14; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;25455
29; 7155.1; 12-JAN-2007 10:48:24; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;25455
30; 7260.2; 12-JAN-2007 10:50:09; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;25455
31; 7416.1; 12-JAN-2007 10:52:45; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;25455
32; 7502.5; 12-JAN-2007 10:54:11; Dark ; 41.5; 179; 240mi2CMA ; 3.03; 24000;occ; 83; 0;25455
33; 7638.4; 12-JAN-2007 10:56:27; Dark ; 46.0; 1; 9Alp CMA ; -1.44; 11000;occ; 92; 0;25455

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1; 1750.9; 12-JAN-2007 10:58:55; Dark ; 40.5; 56; 53Kap Ori ; 2.07; 30000;occ; 81; 0;25456
2; 1820.5; 12-JAN-2007 11:00:05; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25456
3; 1898.2; 12-JAN-2007 11:01:22; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;25456
4; 2034.7; 12-JAN-2007 11:03:39; Dark ; 43.0; 14; 58Alp Ori ; 0.87; 3000;occ; 86; 0;25456
5; 2193.6; 12-JAN-2007 11:06:18; Dark ; 25.0; 44; 24Gam Gem ; 1.93; 11000;occ; 50; 0;25456
6; 2271.0; 12-JAN-2007 11:07:35; Bright; 35.0; 176; 23Zet Tau ; 3.02; 22000;occ; 70; 0;25456
7; 2399.4; 12-JAN-2007 11:09:44; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;25456
8; 2490.2; 12-JAN-2007 11:11:14; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;25456
9; 2674.6; 12-JAN-2007 11:14:19; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25456
10; 3424.6; 12-JAN-2007 11:26:49; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;25456
11; 3670.9; 12-JAN-2007 11:30:55; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25456
12; 3924.0; 12-JAN-2007 11:35:08; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;25456
13; 4071.9; 12-JAN-2007 11:37:36; Bright; 33.5; 130; 23Bet Dra ; 2.80; 5800;occ; 67; 0;25456
14; 4446.8; 12-JAN-2007 11:43:51; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;25456
15; 4629.9; 12-JAN-2007 11:46:54; Bright; 3.5; 127; 27Bet Her ; 2.78; 4700;occ; 7; 0;25456

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 2; -956.5; 12-JAN-2007 11:54:24; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25456
 3; -871.4; 12-JAN-2007 11:55:49; Bright; 34.5; 98; 13Zet Oph ; 2.57; 30000;occ; 69; 0;25456
 4; -604.6; 12-JAN-2007 12:00:16; Dark ; 44.5; 16; 21Alp Sco ; 1.02; 3000;occ; 89; 0;25456
 5; -296.4; 12-JAN-2007 12:05:24; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;25456
 6; -197.2; 12-JAN-2007 12:07:03; Dark ; 41.5; 109; Bet Lup ; 2.68; 26000;occ; 83; 0;25456
 7; -106.5; 12-JAN-2007 12:08:34; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;25456
 8; 8.2; 12-JAN-2007 12:10:28; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;25457
 9; 111.8; 12-JAN-2007 12:12:12; Dark ; 47.5; 10; Bet Cen ; 0.61; 28000;occ; 95; 0;25457
 10; 266.9; 12-JAN-2007 12:14:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25457
 11; 513.1; 12-JAN-2007 12:18:53; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;25457
 12; 603.0; 12-JAN-2007 12:20:23; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;25457
 13; 712.0; 12-JAN-2007 12:22:12; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;25457
 14; 791.4; 12-JAN-2007 12:23:32; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;25457
 15; 990.2; 12-JAN-2007 12:26:50; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;25457
 16; 1119.6; 12-JAN-2007 12:29:00; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;25457
 17; 1224.6; 12-JAN-2007 12:30:45; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;25457
 18; 1380.5; 12-JAN-2007 12:33:21; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;25457
 19; 1466.8; 12-JAN-2007 12:34:47; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;25457
 20; 1602.7; 12-JAN-2007 12:37:03; Dark ; 3.5; 1; 9Alp CMA ; -1.44; 11000;occ; 7; 0;25457

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 2; 1751.0; 12-JAN-2007 12:39:31; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;25457
 3; 1820.7; 12-JAN-2007 12:40:41; Dark ; 38.5; 125; 44Iot Ori ; 2.77; 30000;occ; 77; 0;25457
 4; 1898.4; 12-JAN-2007 12:41:59; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;25457
 5; 2034.8; 12-JAN-2007 12:44:15; Dark ; 45.0; 14; 58Alp Ori ; 0.87; 3000;occ; 90; 0;25457
 6; 2193.5; 12-JAN-2007 12:46:54; Dark ; 25.0; 44; 24Gam Gem ; 1.93; 11000;occ; 50; 0;25457
 7; 2271.0; 12-JAN-2007 12:48:11; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25457
 8; 2399.5; 12-JAN-2007 12:50:20; Bright; 36.0; 28; 12Bet Tau ; 1.65; 15200;occ; 72; 0;25457
 9; 2490.5; 12-JAN-2007 12:51:51; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;25457
 10; 2674.6; 12-JAN-2007 12:54:55; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;25457
 11; 3424.7; 12-JAN-2007 13:07:25; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;25457
 12; 3670.7; 12-JAN-2007 13:11:31; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25457
 13; 3923.9; 12-JAN-2007 13:15:44; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;25457
 14; 4072.5; 12-JAN-2007 13:18:13; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;25457
 15; 4447.1; 12-JAN-2007 13:24:27; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;25457
 16; 4630.2; 12-JAN-2007 13:27:30; Bright; 54.0; 127; 27Bet Her ; 2.78; 4700;occ; 108; 0;25457
 17; 5079.8; 12-JAN-2007 13:35:00; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;25457
 18; 5165.0; 12-JAN-2007 13:36:25; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;25457
 19; 5431.7; 12-JAN-2007 13:40:52; Dark ; 45.0; 16; 21Alp Sco ; 1.02; 3000;occ; 90; 0;25457
 20; 5740.0; 12-JAN-2007 13:46:00; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;25457
 21; 5839.3; 12-JAN-2007 13:47:39; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;25457
 22; 5930.0; 12-JAN-2007 13:49:10; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25457
 23; 6044.9; 12-JAN-2007 13:51:05; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;25457
 24; 6148.2; 12-JAN-2007 13:52:48; Dark ; 39.5; 10; Bet Cen ; 0.61; 28000;occ; 79; 0;25457
 25; 6303.1; 12-JAN-2007 13:55:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25457
 26; 6549.5; 12-JAN-2007 13:59:30; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25457
 27; 6639.2; 12-JAN-2007 14:00:59; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;25457
 28; 6748.3; 12-JAN-2007 14:02:48; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;25457
 29; 6827.7; 12-JAN-2007 14:04:08; Dark ; 38.5; 41; Eps Car ; 1.86; 4100;occ; 77; 0;25457
 30; 7026.5; 12-JAN-2007 14:07:27; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;25457
 31; 7156.0; 12-JAN-2007 14:09:36; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;25457
 32; 7260.7; 12-JAN-2007 14:11:21; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;25457
 33; 7416.5; 12-JAN-2007 14:13:57; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;25457
 34; 7502.8; 12-JAN-2007 14:15:23; Dark ; 4.5; 179; 240mi2CMA ; 3.03; 24000;occ; 9; 0;25457

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 2; 1467.0; 12-JAN-2007 14:15:23; Dark ; 42.0; 179; 240mi2CMA ; 3.03; 24000;occ; 84; 0;25458
 3; 1602.7; 12-JAN-2007 14:17:39; Dark ; 48.0; 1; 9Alp CMA ; -1.44; 11000;occ; 96; 0;25458
 4; 1751.2; 12-JAN-2007 14:20:07; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;25458
 5; 1820.8; 12-JAN-2007 14:21:17; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25458
 6; 1898.6; 12-JAN-2007 14:22:35; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;25458
 7; 2035.0; 12-JAN-2007 14:24:51; Dark ; 10.5; 14; 58Alp Ori ; 0.87; 3000;occ; 21; 0;25458

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 2; 2193.5; 12-JAN-2007 14:27:30; Dark ; 36.0; 44; 24Gam Gem ; 1.93; 11000;occ; 72; 0;25458
 3; 2271.1; 12-JAN-2007 14:28:47; Bright; 36.0; 176; 23Zet Tau ; 3.02; 22000;occ; 72; 0;25458

4; 2399.7; 12-JAN-2007 14:30:56; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25458
5; 2490.6; 12-JAN-2007 14:32:27; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;25458
6; 2674.6; 12-JAN-2007 14:35:31; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;25458
7; 3424.7; 12-JAN-2007 14:48:01; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;25458
8; 3670.7; 12-JAN-2007 14:52:07; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;25458
9; 3924.1; 12-JAN-2007 14:56:20; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;25458
10; 4072.7; 12-JAN-2007 14:58:49; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;25458
11; 4447.3; 12-JAN-2007 15:05:03; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;25458
12; 4630.5; 12-JAN-2007 15:08:07; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;25458
13; 5080.2; 12-JAN-2007 15:15:36; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;25458
14; 5165.5; 12-JAN-2007 15:17:02; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;25458
15; 5432.1; 12-JAN-2007 15:21:28; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;25458
16; 5740.6; 12-JAN-2007 15:26:37; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;25458
17; 5840.0; 12-JAN-2007 15:28:16; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;25458
18; 5930.6; 12-JAN-2007 15:29:47; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25458
19; 6045.7; 12-JAN-2007 15:31:42; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;25458
20; 6148.7; 12-JAN-2007 15:33:25; Dark ; 48.5; 10; Bet Cen ; 0.61; 28000;occ; 97; 0;25458
21; 6303.4; 12-JAN-2007 15:35:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25458
22; 6549.9; 12-JAN-2007 15:40:06; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;25458
23; 6639.7; 12-JAN-2007 15:41:36; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;25458
24; 6748.9; 12-JAN-2007 15:43:25; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;25458
25; 6828.1; 12-JAN-2007 15:44:44; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;25458
26; 7026.8; 12-JAN-2007 15:48:03; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;25458
27; 7156.3; 12-JAN-2007 15:50:12; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;25458
28; 7261.0; 12-JAN-2007 15:51:57; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;25458

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3; 1602.8; 12-JAN-2007 15:58:15; Dark ; 47.5; 1; 9Alp CMa ; -1.44; 11000;occ; 95; 0;25459
4; 1751.4; 12-JAN-2007 16:00:43; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;25459
5; 1820.8; 12-JAN-2007 16:01:53; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25459
6; 1898.7; 12-JAN-2007 16:03:11; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;25459
7; 2035.0; 12-JAN-2007 16:05:27; Dark ; 45.0; 14; 58Alp Ori ; 0.87; 3000;occ; 90; 0;25459
8; 2193.3; 12-JAN-2007 16:08:05; Dark ; 36.0; 44; 24Gam Gem ; 1.93; 11000;occ; 72; 0;25459
9; 2271.2; 12-JAN-2007 16:09:23; Bright; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;25459
10; 2399.7; 12-JAN-2007 16:11:32; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;25459
11; 2490.8; 12-JAN-2007 16:13:03; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;25459
12; 2674.5; 12-JAN-2007 16:16:06; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;25459
13; 3424.8; 12-JAN-2007 16:28:37; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;25459
14; 3670.4; 12-JAN-2007 16:32:42; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;25459
15; 3923.8; 12-JAN-2007 16:36:56; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;25459
16; 4072.5; 12-JAN-2007 16:39:24; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;25459
17; 4447.5; 12-JAN-2007 16:45:39; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;25459
18; 4630.6; 12-JAN-2007 16:48:43; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;25459
19; 5080.6; 12-JAN-2007 16:56:13; Bright; 55.0; 120; 1Del Oph ; 2.73; 3200;occ; 110; 0;25459
20; 5165.6; 12-JAN-2007 16:57:38; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;25459
21; 5432.4; 12-JAN-2007 17:02:04; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;25459
22; 5740.9; 12-JAN-2007 17:07:13; Dark ; 39.5; 131; Gam Lup ; 2.80; 26000;occ; 79; 0;25459
23; 5840.6; 12-JAN-2007 17:08:53; Dark ; 41.5; 109; Bet Lup ; 2.68; 26000;occ; 83; 0;25459
24; 5931.2; 12-JAN-2007 17:10:23; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;25459
25; 6046.5; 12-JAN-2007 17:12:18; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;25459
26; 6149.2; 12-JAN-2007 17:14:01; Dark ; 51.0; 10; Bet Cen ; 0.61; 28000;occ; 102; 0;25459
27; 6303.7; 12-JAN-2007 17:16:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;25459
28; 6550.5; 12-JAN-2007 17:20:42; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;25459
29; 6639.9; 12-JAN-2007 17:22:12; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;25459
30; 6749.4; 12-JAN-2007 17:24:01; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;25459
31; 6828.4; 12-JAN-2007 17:25:20; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;25459
32; 7027.3; 12-JAN-2007 17:28:39; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;25459
33; 7156.8; 12-JAN-2007 17:30:49; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;25459

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2; 1225.4; 12-JAN-2007 17:32:33; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;25460
3; 1381.1; 12-JAN-2007 17:35:09; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;25460
4; 1467.5; 12-JAN-2007 17:36:35; Dark ; 42.0; 179; 240mi2CMA ; 3.03; 24000;occ; 84; 0;25460
5; 1603.0; 12-JAN-2007 17:38:51; Dark ; 45.5; 1; 9Alp CMA ; -1.44; 11000;occ; 91; 0;25460
6; 1751.5; 12-JAN-2007 17:41:19; Dark ; 40.0; 56; 53Kap Ori ; 2.07; 30000;occ; 80; 0;25460
7; 1820.9; 12-JAN-2007 17:42:29; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;25460
8; 1898.8; 12-JAN-2007 17:43:47; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;25460

9; 2035.1; 12-JAN-2007 17:46:03; Dark ; 44.0; 14; 58Alp Ori ; 0.87; 3000;occ; 88; 0;25460
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| 21; | 2548.7; | 24-JAN-2007 | 23:19:21; | Bright; | ; | 35.5; | 107; | 37The Aur | ; | 2.65; | 11000;occ; | 71; | 0; | 25635 |
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| 23; | 3426.4; | 24-JAN-2007 | 23:33:59; | Bright; | ; | 35.0; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 70; | 0; | 25635 |
| 24; | 4085.8; | 24-JAN-2007 | 23:44:58; | Bright; | ; | 36.5; | 130; | 23Bet Dra | ; | 2.80; | 5800;occ; | 73; | 0; | 25635 |
| 25; | 4289.4; | 24-JAN-2007 | 23:48:22; | Bright; | ; | 33.5; | 5; | 3Alp Lyr | ; | 0.03; | 11000;occ; | 67; | 0; | 25635 |
| 26; | 4770.3; | 24-JAN-2007 | 23:56:23; | Bright; | ; | 34.0; | 59; | 55Alp Oph | ; | 2.08; | 8900;occ; | 68; | 0; | 25635 |
| 27; | 4896.8; | 24-JAN-2007 | 23:58:29; | Bright; | ; | 34.0; | 126; | 60Bet Oph | ; | 2.77; | 4250;occ; | 68; | 0; | 25635 |
| 28; | 5237.5; | 25-JAN-2007 | 00:04:10; | Dark | ; | 44.5; | 98; | 13Zet Oph | ; | 2.57; | 30000;occ; | 89; | 0; | 25635 |

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| 4; | -1141.1; | 24-JAN-2007 | 07:12:28; | Bright; | ; | 33.0; | 126; | 60Bet Oph | ; | 2.77; | 4250;occ; | 66; | 0; | 25625 |
| 5; | -803.1; | 24-JAN-2007 | 07:18:06; | Dark | ; | 42.0; | 98; | 13Zet Oph | ; | 2.57; | 30000;occ; | 84; | 0; | 25625 |
| 6; | -532.8; | 24-JAN-2007 | 07:22:36; | Dark | ; | 49.0; | 16; | 21Alp Sco | ; | 1.02; | 3000;occ; | 98; | 0; | 25625 |
| 7; | -445.8; | 24-JAN-2007 | 07:24:03; | Dark | ; | 41.0; | 75; | 26Eps Sco | ; | 2.29; | 4250;occ; | 82; | 0; | 25625 |
| 8; | -199.7; | 24-JAN-2007 | 07:28:09; | Dark | ; | 40.5; | 131; | Gam Lup | ; | 2.80; | 26000;occ; | 81; | 0; | 25625 |
| 9; | 9.8; | 24-JAN-2007 | 07:31:39; | Dark | ; | 41.0; | 78; | Alp Lup | ; | 2.30; | 28000;occ; | 82; | 0; | 25626 |
| 10; | 135.8; | 24-JAN-2007 | 07:33:45; | Dark | ; | 44.5; | 4; | Alp1Cen | ; | -0.01; | 5800;occ; | 89; | 0; | 25626 |
| 11; | 223.7; | 24-JAN-2007 | 07:35:13; | Dark | ; | 27.0; | 77; | Eps Cen | ; | 2.30; | 28000;occ; | 54; | 0; | 25626 |
| 12; | 312.3; | 24-JAN-2007 | 07:36:41; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0;occ; | 119; | 0; | 25626 |
| 13; | 408.8; | 24-JAN-2007 | 07:38:18; | Dark | ; | 40.0; | 12; | Alp1Cru | ; | 0.77; | 30000;occ; | 80; | 0; | 25626 |
| 14; | 653.6; | 24-JAN-2007 | 07:42:22; | Dark | ; | 38.0; | 29; | Bet Car | ; | 1.67; | 10200;occ; | 76; | 0; | 25626 |
| 15; | 783.9; | 24-JAN-2007 | 07:44:33; | Dark | ; | 39.0; | 71; | Iot Car | ; | 2.25; | 7700;occ; | 78; | 0; | 25626 |
| 16; | 892.6; | 24-JAN-2007 | 07:46:21; | Dark | ; | 39.0; | 46; | Del Vel | ; | 1.95; | 10600;occ; | 78; | 0; | 25626 |
| 17; | 1049.5; | 24-JAN-2007 | 07:48:58; | Dark | ; | 41.0; | 34; | Gam2Vel | ; | 1.79; | 23000;occ; | 82; | 0; | 25626 |
| 18; | 1176.0; | 24-JAN-2007 | 07:51:05; | Dark | ; | 41.5; | 70; | Zet Pup | ; | 2.25; | 39000;occ; | 83; | 0; | 25626 |
| 19; | 1266.1; | 24-JAN-2007 | 07:52:35; | Dark | ; | 39.5; | 117; | Pi Pup | ; | 2.71; | 3800;occ; | 79; | 0; | 25626 |
| 20; | 1414.4; | 24-JAN-2007 | 07:55:03; | Dark | ; | 43.0; | 23; | 21Eps CMA | ; | 1.50; | 26000;occ; | 86; | 0; | 25626 |
| 21; | 1497.5; | 24-JAN-2007 | 07:56:26; | Dark | ; | 37.0; | 179; | 240mi2CMA | ; | 3.03; | 24000;occ; | 74; | 0; | 25626 |
| 22; | 1627.4; | 24-JAN-2007 | 07:58:36; | Dark | ; | 41.5; | 1; | 9Alp CMA | ; | -1.44; | 11000;occ; | 83; | 0; | 25626 |

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| 2; | 2049.5; | 24-JAN-2007 | 08:05:38; | Dark | ; | 41.5; | 153; | 3Bet CMI | ; | 2.89; | 13100;occ; | 83; | 0; | 25626 |
| 3; | 2188.2; | 24-JAN-2007 | 08:07:57; | Bright; | ; | 38.5; | 44; | 24Gam Gem | ; | 1.93; | 11000;occ; | 77; | 0; | 25626 |
| 4; | 2294.6; | 24-JAN-2007 | 08:09:43; | Bright; | ; | 37.0; | 151; | 13Mu Gem | ; | 2.89; | 3000;occ; | 74; | 0; | 25626 |
| 5; | 2548.0; | 24-JAN-2007 | 08:13:57; | Bright; | ; | 35.0; | 107; | 37The Aur | ; | 2.65; | 11000;occ; | 70; | 0; | 25626 |
| 6; | 2676.4; | 24-JAN-2007 | 08:16:05; | Bright; | ; | 36.0; | 42; | 34Bet Aur | ; | 1.90; | 10200;occ; | 72; | 0; | 25626 |
| 7; | 3426.7; | 24-JAN-2007 | 08:28:36; | Bright; | ; | 36.0; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 72; | 0; | 25626 |
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| 9; | 4288.2; | 24-JAN-2007 | 08:42:57; | Bright; | ; | 35.0; | 5; | 3Alp Lyr | ; | 0.03; | 11000;occ; | 70; | 0; | 25626 |
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| 11; | 4895.1; | 24-JAN-2007 | 08:53:04; | Bright; | ; | 33.5; | 126; | 60Bet Oph | ; | 2.77; | 4250;occ; | 67; | 0; | 25626 |
| 12; | 5233.3; | 24-JAN-2007 | 08:58:42; | Dark | ; | 43.0; | 98; | 13Zet Oph | ; | 2.57; | 30000;occ; | 86; | 0; | 25626 |
| 13; | 5503.6; | 24-JAN-2007 | 09:03:12; | Dark | ; | 53.5; | 16; | 21Alp Sco | ; | 1.02; | 3000;occ; | 107; | 0; | 25626 |
| 14; | 5590.5; | 24-JAN-2007 | 09:04:39; | Dark | ; | 41.5; | 75; | 26Eps Sco | ; | 2.29; | 4250;occ; | 83; | 0; | 25626 |
| 15; | 5836.9; | 24-JAN-2007 | 09:08:46; | Dark | ; | 41.5; | 131; | Gam Lup | ; | 2.80; | 26000;occ; | 83; | 0; | 25626 |

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 17; 6260.3; 24-JAN-2007 09:15:49; Dark ; 27.0; 77; Eps Cen ; 2.30; 28000;occ; 54; 0;25626
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 26; 7541.1; 27-JAN-2007 11:23:32; Dark ; 36.0; 179; 240mi2CMA ; 3.03; 24000;occ; 72; 0;25670
 27; 7670.3; 27-JAN-2007 11:25:41; Dark ; 5.5; 1; 9Alp CMA ; -1.44; 11000;occ; 11; 0;25670

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 22; 6943.9; 27-JAN-2007 12:54:10; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;25671
 23; 7098.6; 27-JAN-2007 12:56:45; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;25671
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 27; 7541.2; 27-JAN-2007 13:04:08; Dark ; 35.5; 179; 240mi2CMA ; 3.03; 24000;occ; 71; 0;25671

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17; 6195.5; 27-JAN-2007 14:22:18; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;25672
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19; 6470.4; 27-JAN-2007 14:26:53; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;25672
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22; 6944.2; 27-JAN-2007 14:34:46; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;25672
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17; 5869.7; 27-JAN-2007 15:57:28; Dark ; 41.0; 131; Gam Lup ; 2.80; 26000;occ; 82; 0;25673
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23; 6837.5; 27-JAN-2007 16:13:36; Dark ; 37.0; 71; Iot Car ; 2.25; 7700;occ; 74; 0;25673
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27; 7311.8; 27-JAN-2007 16:21:30; Dark ; 41.0; 117; Pi Pup ; 2.71; 3800;occ; 82; 0;25673

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