

GOMOS Daily Report 10-MAY-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 | 11MAY2007 06:01:42 |
| Data source version | GOMOS/5.00 |
| Start time of products | QDS_YESTERDAY(/START) (10MAY2007 00:00:00) |
| Stop time of products | QDS_YESTERDAY(/STOP) (11MAY2007 00:00:00) |
| Store outputs in DB | Yes |
| Nb of level 1b prods | 42 |
| Nb of prods with errors | 0 |

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

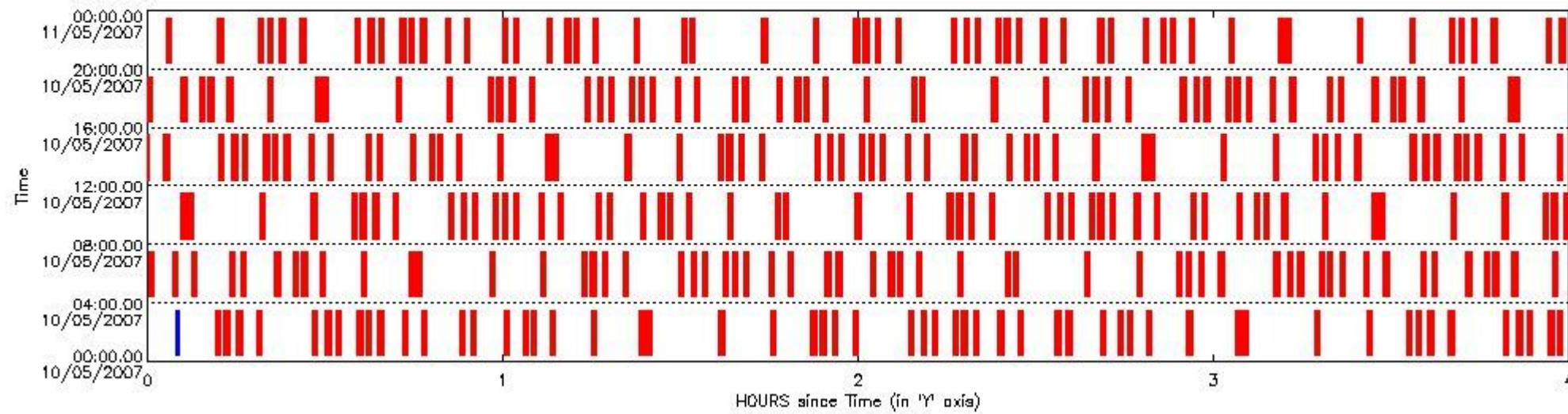
2.1 Level 0 products arrived in PCF (see template [here](#))

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-MAY-2007 00:11:23 | AlpPhe | 84 | 27138 |
| 10-MAY-2007 00:12:51 | DSA1035 | 0 | 27138 |
| 10-MAY-2007 00:14:56 | BetGru | 63 | 27138 |
| 10-MAY-2007 00:18:24 | AlpTuc | 148 | 27139 |
| 10-MAY-2007 00:27:45 | AlpTrA | 43 | 27139 |
| 10-MAY-2007 00:29:57 | BetTrA | 134 | 27139 |
| 10-MAY-2007 00:31:48 | Alp1Cen | 4 | 27139 |
| 10-MAY-2007 00:35:19 | AlpLup | 78 | 27139 |
| 10-MAY-2007 00:36:50 | EtaCen | 81 | 27139 |
| 10-MAY-2007 00:38:49 | 5TheCen | 54 | 27139 |
| 10-MAY-2007 00:42:59 | 46GamHya | 169 | 27139 |
| 10-MAY-2007 00:46:15 | 67AlpVir | 15 | 27139 |
| 10-MAY-2007 00:52:36 | 47EpsVir | 138 | 27139 |
| 10-MAY-2007 00:54:27 | 8EtaBoo | 111 | 27139 |
| 10-MAY-2007 01:00:12 | 12Alp2CVn | 152 | 27139 |

| | | | |
|----------------------|-----------|-----|-------|
| 10-MAY-2007 01:03:16 | 85EtaUMa | 39 | 27139 |
| 10-MAY-2007 01:04:46 | 79ZetUMa | 55 | 27139 |
| 10-MAY-2007 01:07:56 | 50AlpUMa | 36 | 27139 |
| 10-MAY-2007 01:14:51 | 1AlpUMi | 49 | 27139 |
| 10-MAY-2007 01:23:00 | 27GamCas | 76 | 27139 |
| 10-MAY-2007 01:24:15 | 18AlpCas | 68 | 27139 |
| 10-MAY-2007 01:36:25 | 88GamPeg | 140 | 27139 |
| 10-MAY-2007 01:45:10 | 16BetCet | 52 | 27139 |
| 10-MAY-2007 01:51:59 | AlpPhe | 84 | 27139 |
| 10-MAY-2007 01:53:28 | DSA1035 | 0 | 27139 |
| 10-MAY-2007 01:55:32 | BetGru | 63 | 27139 |
| 10-MAY-2007 01:59:00 | AlpTuc | 148 | 27140 |
| 10-MAY-2007 02:08:21 | AlpTrA | 43 | 27140 |
| 10-MAY-2007 02:10:33 | BetTrA | 134 | 27140 |
| 10-MAY-2007 02:12:24 | Alp1Cen | 4 | 27140 |
| 10-MAY-2007 02:15:55 | AlpLup | 78 | 27140 |
| 10-MAY-2007 02:17:26 | EtaCen | 81 | 27140 |
| 10-MAY-2007 02:19:25 | 5TheCen | 54 | 27140 |
| 10-MAY-2007 02:23:36 | 46GamHya | 169 | 27140 |
| 10-MAY-2007 02:26:51 | 67AlpVir | 15 | 27140 |
| 10-MAY-2007 02:33:12 | 47EpsVir | 138 | 27140 |
| 10-MAY-2007 02:35:03 | 8EtaBoo | 111 | 27140 |
| 10-MAY-2007 02:40:48 | 12Alp2CVn | 152 | 27140 |
| 10-MAY-2007 02:43:52 | 85EtaUMa | 39 | 27140 |
| 10-MAY-2007 02:45:22 | 79ZetUMa | 55 | 27140 |
| 10-MAY-2007 02:48:32 | 50AlpUMa | 36 | 27140 |
| 10-MAY-2007 02:55:27 | 1AlpUMi | 49 | 27140 |
| 10-MAY-2007 03:03:36 | 27GamCas | 76 | 27140 |
| 10-MAY-2007 03:04:51 | 18AlpCas | 68 | 27140 |
| 10-MAY-2007 03:17:01 | 88GamPeg | 140 | 27140 |
| 10-MAY-2007 03:25:46 | 16BetCet | 52 | 27140 |
| 10-MAY-2007 03:32:35 | AlpPhe | 84 | 27140 |
| 10-MAY-2007 03:34:04 | DSA1035 | 0 | 27140 |
| 10-MAY-2007 03:36:09 | BetGru | 63 | 27140 |
| 10-MAY-2007 03:39:36 | AlpTuc | 148 | 27141 |
| 10-MAY-2007 03:48:58 | AlpTrA | 43 | 27141 |
| 10-MAY-2007 03:51:09 | BetTrA | 134 | 27141 |
| 10-MAY-2007 03:53:00 | Alp1Cen | 4 | 27141 |
| 10-MAY-2007 03:56:31 | AlpLup | 78 | 27141 |
| 10-MAY-2007 03:58:02 | EtaCen | 81 | 27141 |
| 10-MAY-2007 04:00:01 | 5TheCen | 54 | 27141 |
| 10-MAY-2007 04:04:12 | 46GamHya | 169 | 27141 |
| 10-MAY-2007 04:07:27 | 67AlpVir | 15 | 27141 |
| 10-MAY-2007 04:13:48 | 47EpsVir | 138 | 27141 |
| 10-MAY-2007 04:15:39 | 8EtaBoo | 111 | 27141 |
| 10-MAY-2007 04:21:24 | 12Alp2CVn | 152 | 27141 |
| 10-MAY-2007 04:24:28 | 85EtaUMa | 39 | 27141 |
| 10-MAY-2007 04:25:58 | 79ZetUMa | 55 | 27141 |
| 10-MAY-2007 04:29:08 | 50AlpUMa | 36 | 27141 |
| 10-MAY-2007 04:36:03 | 1AlpUMi | 49 | 27141 |
| 10-MAY-2007 04:44:12 | 27GamCas | 76 | 27141 |
| 10-MAY-2007 04:45:27 | 18AlpCas | 68 | 27141 |
| 10-MAY-2007 04:57:37 | 88GamPeg | 140 | 27141 |
| 10-MAY-2007 05:06:22 | 16BetCet | 52 | 27141 |
| 10-MAY-2007 05:13:11 | AlpPhe | 84 | 27141 |
| 10-MAY-2007 05:14:40 | DSA1035 | 0 | 27141 |
| 10-MAY-2007 05:16:45 | BetGru | 63 | 27141 |
| 10-MAY-2007 05:20:13 | AlpTuc | 148 | 27142 |
| 10-MAY-2007 05:29:34 | AlpTrA | 43 | 27142 |

| | | | |
|----------------------|-----------|-----|-------|
| 10-MAY-2007 05:31:46 | BetTrA | 134 | 27142 |
| 10-MAY-2007 05:33:37 | Alp1Cen | 4 | 27142 |
| 10-MAY-2007 05:37:07 | AlpLup | 78 | 27142 |
| 10-MAY-2007 05:38:39 | EtaCen | 81 | 27142 |
| 10-MAY-2007 05:40:38 | 5TheCen | 54 | 27142 |
| 10-MAY-2007 05:44:48 | 46GamHya | 169 | 27142 |
| 10-MAY-2007 05:48:03 | 67AlpVir | 15 | 27142 |
| 10-MAY-2007 05:54:24 | 47EpsVir | 138 | 27142 |
| 10-MAY-2007 05:56:15 | 8EtaBoo | 111 | 27142 |
| 10-MAY-2007 06:02:00 | 12Alp2CVn | 152 | 27142 |
| 10-MAY-2007 06:05:04 | 85EtaUMa | 39 | 27142 |
| 10-MAY-2007 06:06:34 | 79ZetUMa | 55 | 27142 |
| 10-MAY-2007 06:09:44 | 50AlpUMa | 36 | 27142 |
| 10-MAY-2007 06:16:39 | 1AlpUMi | 49 | 27142 |
| 10-MAY-2007 06:24:48 | 27GamCas | 76 | 27142 |
| 10-MAY-2007 06:26:03 | 18AlpCas | 68 | 27142 |
| 10-MAY-2007 06:38:14 | 88GamPeg | 140 | 27142 |
| 10-MAY-2007 06:46:58 | 16BetCet | 52 | 27142 |
| 10-MAY-2007 06:53:47 | AlpPhe | 84 | 27142 |
| 10-MAY-2007 06:55:16 | DSA1035 | 0 | 27142 |
| 10-MAY-2007 06:57:22 | BetGru | 63 | 27142 |
| 10-MAY-2007 07:00:49 | AlpTuc | 148 | 27143 |
| 10-MAY-2007 07:10:10 | AlpTrA | 43 | 27143 |
| 10-MAY-2007 07:12:22 | BetTrA | 134 | 27143 |
| 10-MAY-2007 07:14:13 | Alp1Cen | 4 | 27143 |
| 10-MAY-2007 07:17:44 | AlpLup | 78 | 27143 |
| 10-MAY-2007 07:19:15 | EtaCen | 81 | 27143 |
| 10-MAY-2007 07:21:14 | 5TheCen | 54 | 27143 |
| 10-MAY-2007 07:25:24 | 46GamHya | 169 | 27143 |
| 10-MAY-2007 07:28:40 | 67AlpVir | 15 | 27143 |
| 10-MAY-2007 07:35:00 | 47EpsVir | 138 | 27143 |
| 10-MAY-2007 07:36:51 | 8EtaBoo | 111 | 27143 |
| 10-MAY-2007 07:42:36 | 12Alp2CVn | 152 | 27143 |
| 10-MAY-2007 07:45:39 | 85EtaUMa | 39 | 27143 |
| 10-MAY-2007 07:47:10 | 79ZetUMa | 55 | 27143 |
| 10-MAY-2007 07:50:21 | 50AlpUMa | 36 | 27143 |
| 10-MAY-2007 07:57:15 | 1AlpUMi | 49 | 27143 |
| 10-MAY-2007 08:05:24 | 27GamCas | 76 | 27143 |
| 10-MAY-2007 08:06:39 | 18AlpCas | 68 | 27143 |
| 10-MAY-2007 08:18:50 | 88GamPeg | 140 | 27143 |
| 10-MAY-2007 08:27:34 | 16BetCet | 52 | 27143 |
| 10-MAY-2007 08:34:24 | AlpPhe | 84 | 27143 |
| 10-MAY-2007 08:35:53 | DSA1035 | 0 | 27143 |
| 10-MAY-2007 08:37:58 | BetGru | 63 | 27143 |
| 10-MAY-2007 08:41:25 | AlpTuc | 148 | 27144 |
| 10-MAY-2007 08:50:46 | AlpTrA | 43 | 27144 |
| 10-MAY-2007 08:52:58 | BetTrA | 134 | 27144 |
| 10-MAY-2007 08:54:49 | Alp1Cen | 4 | 27144 |
| 10-MAY-2007 08:58:20 | AlpLup | 78 | 27144 |
| 10-MAY-2007 08:59:51 | EtaCen | 81 | 27144 |
| 10-MAY-2007 09:01:50 | 5TheCen | 54 | 27144 |
| 10-MAY-2007 09:06:00 | 46GamHya | 169 | 27144 |
| 10-MAY-2007 09:09:16 | 67AlpVir | 15 | 27144 |
| 10-MAY-2007 09:15:36 | 47EpsVir | 138 | 27144 |
| 10-MAY-2007 09:17:27 | 8EtaBoo | 111 | 27144 |
| 10-MAY-2007 09:23:12 | 12Alp2CVn | 152 | 27144 |
| 10-MAY-2007 09:26:15 | 85EtaUMa | 39 | 27144 |
| 10-MAY-2007 09:27:46 | 79ZetUMa | 55 | 27144 |
| 10-MAY-2007 09:30:57 | 50AlpUMa | 36 | 27144 |

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|----------------------|-----------|-----|-------|
| 10-MAY-2007 09:37:51 | 1AlpUMi | 49 | 27144 |
| 10-MAY-2007 09:46:00 | 27GamCas | 76 | 27144 |
| 10-MAY-2007 09:47:15 | 18AlpCas | 68 | 27144 |
| 10-MAY-2007 09:59:26 | 88GamPeg | 140 | 27144 |
| 10-MAY-2007 10:08:10 | 16BetCet | 52 | 27144 |
| 10-MAY-2007 10:15:00 | AlpPhe | 84 | 27144 |
| 10-MAY-2007 10:16:29 | DSA1035 | 0 | 27144 |
| 10-MAY-2007 10:18:35 | BetGru | 63 | 27144 |
| 10-MAY-2007 10:22:02 | AlpTuc | 148 | 27145 |
| 10-MAY-2007 10:31:23 | AlpTrA | 43 | 27145 |
| 10-MAY-2007 10:33:34 | BetTrA | 134 | 27145 |
| 10-MAY-2007 10:35:25 | Alp1Cen | 4 | 27145 |
| 10-MAY-2007 10:38:56 | AlpLup | 78 | 27145 |
| 10-MAY-2007 10:40:27 | EtaCen | 81 | 27145 |
| 10-MAY-2007 10:42:26 | 5TheCen | 54 | 27145 |
| 10-MAY-2007 10:46:36 | 46GamHya | 169 | 27145 |
| 10-MAY-2007 10:49:52 | 67AlpVir | 15 | 27145 |
| 10-MAY-2007 10:56:13 | 47EpsVir | 138 | 27145 |
| 10-MAY-2007 10:58:03 | 8EtaBoo | 111 | 27145 |
| 10-MAY-2007 11:03:48 | 12Alp2CVn | 152 | 27145 |
| 10-MAY-2007 11:06:51 | 85EtaUMa | 39 | 27145 |
| 10-MAY-2007 11:08:22 | 79ZetUMa | 55 | 27145 |
| 10-MAY-2007 11:11:33 | 50AlpUMa | 36 | 27145 |
| 10-MAY-2007 11:18:27 | 1AlpUMi | 49 | 27145 |
| 10-MAY-2007 11:26:36 | 27GamCas | 76 | 27145 |
| 10-MAY-2007 11:27:51 | 18AlpCas | 68 | 27145 |
| 10-MAY-2007 11:40:02 | 88GamPeg | 140 | 27145 |
| 10-MAY-2007 11:48:46 | 16BetCet | 52 | 27145 |
| 10-MAY-2007 11:55:36 | AlpPhe | 84 | 27145 |
| 10-MAY-2007 11:57:05 | DSA1035 | 0 | 27145 |
| 10-MAY-2007 11:59:11 | BetGru | 63 | 27145 |
| 10-MAY-2007 12:02:38 | AlpTuc | 148 | 27146 |
| 10-MAY-2007 12:11:59 | AlpTrA | 43 | 27146 |
| 10-MAY-2007 12:14:10 | BetTrA | 134 | 27146 |
| 10-MAY-2007 12:16:01 | Alp1Cen | 4 | 27146 |
| 10-MAY-2007 12:19:32 | AlpLup | 78 | 27146 |
| 10-MAY-2007 12:21:03 | EtaCen | 81 | 27146 |
| 10-MAY-2007 12:23:02 | 5TheCen | 54 | 27146 |
| 10-MAY-2007 12:27:12 | 46GamHya | 169 | 27146 |
| 10-MAY-2007 12:30:28 | 67AlpVir | 15 | 27146 |
| 10-MAY-2007 12:36:49 | 47EpsVir | 138 | 27146 |
| 10-MAY-2007 12:38:38 | 8EtaBoo | 111 | 27146 |
| 10-MAY-2007 12:44:24 | 12Alp2CVn | 152 | 27146 |
| 10-MAY-2007 12:47:27 | 85EtaUMa | 39 | 27146 |
| 10-MAY-2007 12:48:58 | 79ZetUMa | 55 | 27146 |
| 10-MAY-2007 12:52:09 | 50AlpUMa | 36 | 27146 |
| 10-MAY-2007 12:59:03 | 1AlpUMi | 49 | 27146 |
| 10-MAY-2007 13:07:12 | 27GamCas | 76 | 27146 |
| 10-MAY-2007 13:08:27 | 18AlpCas | 68 | 27146 |
| 10-MAY-2007 13:20:38 | 88GamPeg | 140 | 27146 |
| 10-MAY-2007 13:29:23 | 16BetCet | 52 | 27146 |
| 10-MAY-2007 13:36:12 | AlpPhe | 84 | 27146 |
| 10-MAY-2007 13:37:42 | DSA1035 | 0 | 27146 |
| 10-MAY-2007 13:39:48 | BetGru | 63 | 27146 |
| 10-MAY-2007 13:43:15 | AlpTuc | 148 | 27147 |
| 10-MAY-2007 13:52:35 | AlpTrA | 43 | 27147 |
| 10-MAY-2007 13:54:47 | BetTrA | 134 | 27147 |
| 10-MAY-2007 13:56:37 | Alp1Cen | 4 | 27147 |
| 10-MAY-2007 14:00:08 | AlpLup | 78 | 27147 |

| | | | |
|----------------------|-----------|-----|-------|
| 10-MAY-2007 14:01:39 | EtaCen | 81 | 27147 |
| 10-MAY-2007 14:03:38 | 5TheCen | 54 | 27147 |
| 10-MAY-2007 14:07:48 | 46GamHya | 169 | 27147 |
| 10-MAY-2007 14:11:04 | 67AlpVir | 15 | 27147 |
| 10-MAY-2007 14:17:25 | 47EpsVir | 138 | 27147 |
| 10-MAY-2007 14:19:14 | 8EtaBoo | 111 | 27147 |
| 10-MAY-2007 14:25:00 | 12Alp2CVn | 152 | 27147 |
| 10-MAY-2007 14:28:03 | 85EtaUMa | 39 | 27147 |
| 10-MAY-2007 14:29:34 | 79ZetUMa | 55 | 27147 |
| 10-MAY-2007 14:32:46 | 50AlpUMa | 36 | 27147 |
| 10-MAY-2007 14:39:39 | 1AlpUMi | 49 | 27147 |
| 10-MAY-2007 14:47:48 | 27GamCas | 76 | 27147 |
| 10-MAY-2007 14:49:03 | 18AlpCas | 68 | 27147 |
| 10-MAY-2007 15:01:14 | 88GamPeg | 140 | 27147 |
| 10-MAY-2007 15:09:59 | 16BetCet | 52 | 27147 |
| 10-MAY-2007 15:16:48 | AlpPhe | 84 | 27147 |
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| 10-MAY-2007 15:20:24 | BetGru | 63 | 27147 |
| 10-MAY-2007 15:23:51 | AlpTuc | 148 | 27148 |
| 10-MAY-2007 15:33:11 | AlpTrA | 43 | 27148 |
| 10-MAY-2007 15:35:23 | BetTrA | 134 | 27148 |
| 10-MAY-2007 15:37:13 | Alp1Cen | 4 | 27148 |
| 10-MAY-2007 15:40:45 | AlpLup | 78 | 27148 |
| 10-MAY-2007 15:42:16 | EtaCen | 81 | 27148 |
| 10-MAY-2007 15:44:14 | 5TheCen | 54 | 27148 |
| 10-MAY-2007 15:48:24 | 46GamHya | 169 | 27148 |
| 10-MAY-2007 15:51:40 | 67AlpVir | 15 | 27148 |
| 10-MAY-2007 15:58:01 | 47EpsVir | 138 | 27148 |
| 10-MAY-2007 15:59:50 | 8EtaBoo | 111 | 27148 |
| 10-MAY-2007 16:05:36 | 12Alp2CVn | 152 | 27148 |
| 10-MAY-2007 16:08:39 | 85EtaUMa | 39 | 27148 |
| 10-MAY-2007 16:10:09 | 79ZetUMa | 55 | 27148 |
| 10-MAY-2007 16:13:22 | 50AlpUMa | 36 | 27148 |
| 10-MAY-2007 16:20:15 | 1AlpUMi | 49 | 27148 |
| 10-MAY-2007 16:28:24 | 27GamCas | 76 | 27148 |
| 10-MAY-2007 16:29:39 | 18AlpCas | 68 | 27148 |
| 10-MAY-2007 16:41:51 | 88GamPeg | 140 | 27148 |
| 10-MAY-2007 16:50:35 | 16BetCet | 52 | 27148 |
| 10-MAY-2007 16:57:24 | AlpPhe | 84 | 27148 |
| 10-MAY-2007 16:58:54 | DSA1035 | 0 | 27148 |
| 10-MAY-2007 17:01:01 | BetGru | 63 | 27148 |
| 10-MAY-2007 17:04:27 | AlpTuc | 148 | 27149 |
| 10-MAY-2007 17:13:48 | AlpTrA | 43 | 27149 |
| 10-MAY-2007 17:15:59 | BetTrA | 134 | 27149 |
| 10-MAY-2007 17:17:50 | Alp1Cen | 4 | 27149 |
| 10-MAY-2007 17:21:21 | AlpLup | 78 | 27149 |
| 10-MAY-2007 17:22:52 | EtaCen | 81 | 27149 |
| 10-MAY-2007 17:24:50 | 5TheCen | 54 | 27149 |
| 10-MAY-2007 17:29:00 | 46GamHya | 169 | 27149 |
| 10-MAY-2007 17:32:16 | 67AlpVir | 15 | 27149 |
| 10-MAY-2007 17:38:37 | 47EpsVir | 138 | 27149 |
| 10-MAY-2007 17:40:26 | 8EtaBoo | 111 | 27149 |
| 10-MAY-2007 17:46:12 | 12Alp2CVn | 152 | 27149 |
| 10-MAY-2007 17:49:14 | 85EtaUMa | 39 | 27149 |
| 10-MAY-2007 17:50:45 | 79ZetUMa | 55 | 27149 |
| 10-MAY-2007 17:53:58 | 50AlpUMa | 36 | 27149 |
| 10-MAY-2007 18:00:51 | 1AlpUMi | 49 | 27149 |
| 10-MAY-2007 18:09:00 | 27GamCas | 76 | 27149 |
| 10-MAY-2007 18:10:15 | 18AlpCas | 68 | 27149 |

| | | | |
|----------------------|-----------|-----|-------|
| 10-MAY-2007 18:22:27 | 88GamPeg | 140 | 27149 |
| 10-MAY-2007 18:31:11 | 16BetCet | 52 | 27149 |
| 10-MAY-2007 18:38:00 | AlpPhe | 84 | 27149 |
| 10-MAY-2007 18:39:31 | DSA1035 | 0 | 27149 |
| 10-MAY-2007 18:41:37 | BetGru | 63 | 27149 |
| 10-MAY-2007 18:45:04 | AlpTuc | 148 | 27150 |
| 10-MAY-2007 18:54:24 | AlpTrA | 43 | 27150 |
| 10-MAY-2007 18:56:35 | BetTrA | 134 | 27150 |
| 10-MAY-2007 18:58:26 | Alp1Cen | 4 | 27150 |
| 10-MAY-2007 19:01:57 | AlpLup | 78 | 27150 |
| 10-MAY-2007 19:03:28 | EtaCen | 81 | 27150 |
| 10-MAY-2007 19:05:27 | 5TheCen | 54 | 27150 |
| 10-MAY-2007 19:09:37 | 46GamHya | 169 | 27150 |
| 10-MAY-2007 19:12:52 | 67AlpVir | 15 | 27150 |
| 10-MAY-2007 19:19:13 | 47EpsVir | 138 | 27150 |
| 10-MAY-2007 19:21:02 | 8EtaBoo | 111 | 27150 |
| 10-MAY-2007 19:26:48 | 12Alp2CVn | 152 | 27150 |
| 10-MAY-2007 19:29:50 | 85EtaUMa | 39 | 27150 |
| 10-MAY-2007 19:31:21 | 79ZetUMa | 55 | 27150 |
| 10-MAY-2007 19:34:34 | 50AlpUMa | 36 | 27150 |
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| 10-MAY-2007 19:49:36 | 27GamCas | 76 | 27150 |
| 10-MAY-2007 19:50:51 | 18AlpCas | 68 | 27150 |
| 10-MAY-2007 20:03:03 | 88GamPeg | 140 | 27150 |
| 10-MAY-2007 20:11:47 | 16BetCet | 52 | 27150 |
| 10-MAY-2007 20:18:37 | AlpPhe | 84 | 27150 |
| 10-MAY-2007 20:20:07 | DSA1035 | 0 | 27150 |
| 10-MAY-2007 20:22:14 | BetGru | 63 | 27150 |
| 10-MAY-2007 20:25:40 | AlpTuc | 148 | 27151 |
| 10-MAY-2007 20:35:00 | AlpTrA | 43 | 27151 |
| 10-MAY-2007 20:37:12 | BetTrA | 134 | 27151 |
| 10-MAY-2007 20:39:02 | Alp1Cen | 4 | 27151 |
| 10-MAY-2007 20:42:33 | AlpLup | 78 | 27151 |
| 10-MAY-2007 20:44:04 | EtaCen | 81 | 27151 |
| 10-MAY-2007 20:46:03 | 5TheCen | 54 | 27151 |
| 10-MAY-2007 20:50:13 | 46GamHya | 169 | 27151 |
| 10-MAY-2007 20:53:28 | 67AlpVir | 15 | 27151 |
| 10-MAY-2007 20:59:49 | 47EpsVir | 138 | 27151 |
| 10-MAY-2007 21:01:38 | 8EtaBoo | 111 | 27151 |
| 10-MAY-2007 21:07:24 | 12Alp2CVn | 152 | 27151 |
| 10-MAY-2007 21:10:26 | 85EtaUMa | 39 | 27151 |
| 10-MAY-2007 21:11:57 | 79ZetUMa | 55 | 27151 |
| 10-MAY-2007 21:15:11 | 50AlpUMa | 36 | 27151 |
| 10-MAY-2007 21:22:03 | 1AlpUMi | 49 | 27151 |
| 10-MAY-2007 21:30:12 | 27GamCas | 76 | 27151 |
| 10-MAY-2007 21:31:27 | 18AlpCas | 68 | 27151 |
| 10-MAY-2007 21:43:39 | 88GamPeg | 140 | 27151 |
| 10-MAY-2007 21:52:23 | 16BetCet | 52 | 27151 |
| 10-MAY-2007 21:59:13 | AlpPhe | 84 | 27151 |
| 10-MAY-2007 22:00:43 | DSA1035 | 0 | 27151 |
| 10-MAY-2007 22:02:50 | BetGru | 63 | 27151 |
| 10-MAY-2007 22:06:16 | AlpTuc | 148 | 27152 |
| 10-MAY-2007 22:15:36 | AlpTrA | 43 | 27152 |
| 10-MAY-2007 22:17:48 | BetTrA | 134 | 27152 |
| 10-MAY-2007 22:19:38 | Alp1Cen | 4 | 27152 |
| 10-MAY-2007 22:23:09 | AlpLup | 78 | 27152 |
| 10-MAY-2007 22:24:40 | EtaCen | 81 | 27152 |
| 10-MAY-2007 22:26:39 | 5TheCen | 54 | 27152 |
| 10-MAY-2007 22:30:49 | 46GamHya | 169 | 27152 |

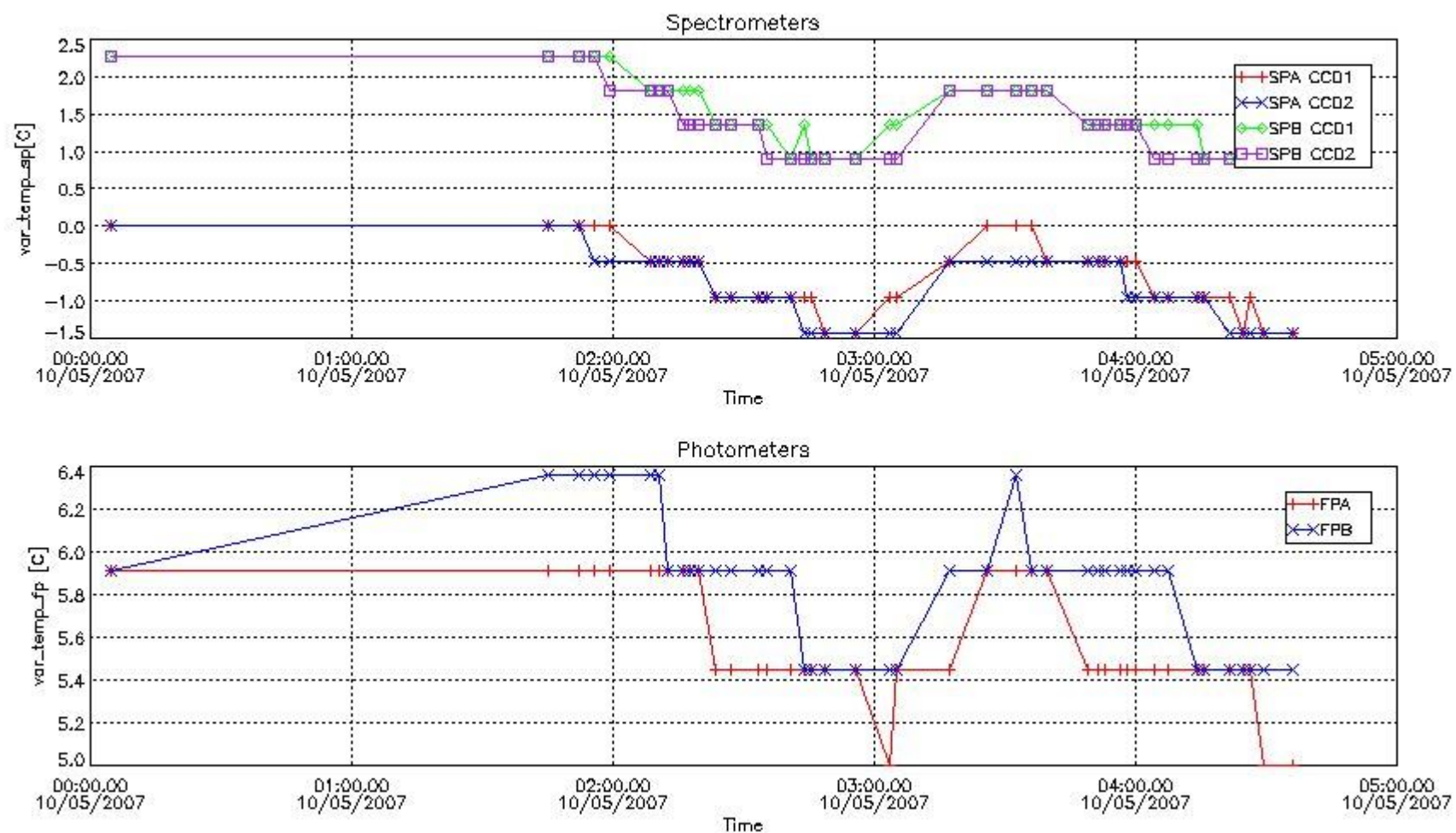
| | | | |
|----------------------|-----------|-----|-------|
| 10-MAY-2007 22:34:04 | 67AlpVir | 15 | 27152 |
| 10-MAY-2007 22:40:25 | 47EpsVir | 138 | 27152 |
| 10-MAY-2007 22:42:14 | 8EtaBoo | 111 | 27152 |
| 10-MAY-2007 22:48:01 | 12Alp2CVn | 152 | 27152 |
| 10-MAY-2007 22:51:02 | 85EtaUMa | 39 | 27152 |
| 10-MAY-2007 22:52:33 | 79ZetUMa | 55 | 27152 |
| 10-MAY-2007 22:55:47 | 50AlpUMa | 36 | 27152 |
| 10-MAY-2007 23:02:39 | 1AlpUMi | 49 | 27152 |
| 10-MAY-2007 23:10:48 | 27GamCas | 76 | 27152 |
| 10-MAY-2007 23:12:03 | 18AlpCas | 68 | 27152 |
| 10-MAY-2007 23:24:15 | 88GamPeg | 140 | 27152 |
| 10-MAY-2007 23:33:00 | 16BetCet | 52 | 27152 |
| 10-MAY-2007 23:39:49 | AlpPhe | 84 | 27152 |
| 10-MAY-2007 23:41:19 | DSA1035 | 0 | 27152 |
| 10-MAY-2007 23:43:27 | BetGru | 63 | 27152 |
| 10-MAY-2007 23:46:53 | AlpTuc | 148 | 27153 |
| 10-MAY-2007 23:56:13 | AlpTrA | 43 | 27153 |
| 10-MAY-2007 23:58:24 | BetTrA | 134 | 27153 |

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_1PNPDE20070510_000440_000000422058_00030_27138_5108.N1 | 10-MAY-2007 00:04:40 | Dark | 41.500 | 52 | 16Bet Cet | 2.0370 | 4500.0 | 83 | 27138 | No |
| 2 | GOM_TRA_1PNPDE20070510_014516_000000422058_00031_27139_0303.N1 | 10-MAY-2007 01:45:16 | Dark | 42.000 | 52 | 16Bet Cet | 2.0370 | 4500.0 | 84 | 27139 | No |
| 3 | GOM_TRA_1PNPDE20070510_015205_000000422058_00031_27139_0304.N1 | 10-MAY-2007 01:52:05 | Dark | 41.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 83 | 27139 | No |
| 4 | GOM_TRA_1PNPDE20070510_015539_000000542058_00031_27139_0305.N1 | 10-MAY-2007 01:55:39 | Dark | 53.500 | 63 | Bet Gru | 2.1500 | 2800.0 | 107 | 27139 | No |
| 5 | GOM_TRA_1PNPDE20070510_015906_000000392058_00032_27140_0306.N1 | 10-MAY-2007 01:59:06 | Dark | 38.500 | 148 | Alp Tuc | 2.8780 | 4100.0 | 77 | 27140 | No |
| 6 | GOM_TRA_1PNPDE20070510_020828_000000412058_00032_27140_0307.N1 | 10-MAY-2007 02:08:28 | Straylight | 40.500 | 43 | Alp TrA | 1.9100 | 4250.0 | 81 | 27140 | No |
| 7 | GOM_TRA_1PNPDE20070510_021040_000000382058_00032_27140_0308.N1 | 10-MAY-2007 02:10:40 | Straylight | 38.000 | 134 | Bet TrA | 2.8100 | 6600.0 | 76 | 27140 | No |
| 8 | GOM_TRA_1PNPDE20070510_021231_000000422058_00032_27140_0309.N1 | 10-MAY-2007 02:12:31 | Straylight | 41.500 | 4 | Alp1Cen | -0.010000 | 5800.0 | 83 | 27140 | No |
| 9 | GOM_TRA_1PNPDE20070510_021602_000000402058_00032_27140_0310.N1 | 10-MAY-2007 02:16:02 | Straylight | 40.000 | 78 | Alp Lup | 2.3040 | 28000. | 80 | 27140 | No |
| 10 | GOM_TRA_1PNPDE20070510_021733_000000392058_00032_27140_0311.N1 | 10-MAY-2007 02:17:33 | Straylight | 38.500 | 81 | Eta Cen | 2.3560 | 28000. | 77 | 27140 | No |
| 11 | GOM_TRA_1PNPDE20070510_021932_000000442058_00032_27140_0312.N1 | 10-MAY-2007 02:19:32 | Twilight | 44.000 | 54 | 5The Cen | 2.0550 | 4500.0 | 88 | 27140 | No |
| 12 | GOM_TRA_1PNPDE20070510_022342_000000382058_00032_27140_0313.N1 | 10-MAY-2007 02:23:42 | Bright | 37.500 | 169 | 46Gam Hya | 2.9910 | 4700.0 | 75 | 27140 | No |
| 13 | GOM_TRA_1PNPDE20070510_022658_000000382058_00032_27140_0314.N1 | 10-MAY-2007 02:26:58 | Bright | 38.000 | 15 | 67Alp Vir | 0.97600 | 28000. | 76 | 27140 | No |
| 14 | GOM_TRA_1PNPDE20070510_023319_000000352058_00032_27140_0315.N1 | 10-MAY-2007 02:33:19 | Bright | 35.000 | 138 | 47Eps Vir | 2.8280 | 4700.0 | 70 | 27140 | No |
| 15 | GOM_TRA_1PNPDE20070510_023510_000000362058_00032_27140_0316.N1 | 10-MAY-2007 02:35:10 | Bright | 35.500 | 111 | 8Eta Boo | 2.6800 | 6000.0 | 71 | 27140 | No |
| 16 | GOM_TRA_1PNPDE20070510_024054_000000342058_00032_27140_0317.N1 | 10-MAY-2007 02:40:54 | Bright | 34.000 | 152 | 12Alp2CVn | 2.8900 | 11000. | 68 | 27140 | No |
| 17 | GOM_TRA_1PNPDE20070510_024359_000000342058_00032_27140_0318.N1 | 10-MAY-2007 02:43:59 | Bright | 33.500 | 39 | 85Eta UMa | 1.8540 | 24000. | 67 | 27140 | No |
| 18 | GOM_TRA_1PNPDE20070510_024529_000000332058_00032_27140_0319.N1 | 10-MAY-2007 02:45:29 | Bright | 33.000 | 55 | 79Zet UMa | 2.0600 | 10200. | 66 | 27140 | No |
| 19 | GOM_TRA_1PNPDE20070510_024838_000000362058_00032_27140_0320.N1 | 10-MAY-2007 02:48:38 | Bright | 36.000 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 72 | 27140 | No |
| 20 | GOM_TRA_1PNPDE20070510_025534_000000342058_00032_27140_0321.N1 | 10-MAY-2007 02:55:34 | Bright | 34.000 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 68 | 27140 | No |
| 21 | GOM_TRA_1PNPDE20070510_030343_000000352058_00032_27140_0289.N1 | 10-MAY-2007 03:03:43 | Bright | 34.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 69 | 27140 | No |
| 22 | GOM_TRA_1PNPDE20070510_030458_000000462058_00032_27140_0290.N1 | 10-MAY-2007 03:04:58 | Bright | 46.000 | 68 | 18Alp Cas | 2.2250 | 4500.0 | 92 | 27140 | No |
| 23 | GOM_TRA_1PNPDE20070510_031708_000000422058_00032_27140_0291.N1 | 10-MAY-2007 03:17:08 | Twilight | 42.000 | 140 | 88Gam Peg | 2.8340 | 26000. | 84 | 27140 | No |
| 24 | GOM_TRA_1PNPDE20070510_032552_000000432058_00032_27140_0292.N1 | 10-MAY-2007 03:25:52 | Dark | 43.000 | 52 | 16Bet Cet | 2.0370 | 4500.0 | 86 | 27140 | No |
| 25 | GOM_TRA_1PNPDE20070510_033242_000000432058_00032_27140_0293.N1 | 10-MAY-2007 03:32:42 | Dark | 43.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 86 | 27140 | No |
| 26 | GOM_TRA_1PNPDE20070510_033615_000000532058_00032_27140_0294.N1 | 10-MAY-2007 03:36:15 | Dark | 53.000 | 63 | Bet Gru | 2.1500 | 2800.0 | 106 | 27140 | No |
| 27 | GOM_TRA_1PNPDE20070510_033943_000000412058_00033_27141_0295.N1 | 10-MAY-2007 03:39:43 | Dark | 40.500 | 148 | Alp Tuc | 2.8780 | 4100.0 | 81 | 27141 | No |
| 28 | GOM_TRA_1PNPDE20070510_034904_000000412058_00033_27141_0296.N1 | 10-MAY-2007 03:49:04 | Straylight | 40.500 | 43 | Alp TrA | 1.9100 | 4250.0 | 81 | 27141 | No |
| 29 | GOM_TRA_1PNPDE20070510_035116_000000392058_00033_27141_0297.N1 | 10-MAY-2007 03:51:16 | Straylight | 38.500 | 134 | Bet TrA | 2.8100 | 6600.0 | 77 | 27141 | No |
| 30 | GOM_TRA_1PNPDE20070510_035307_000000452058_00033_27141_0298.N1 | 10-MAY-2007 03:53:07 | Straylight | 45.000 | 4 | Alp1Cen | -0.010000 | 5800.0 | 90 | 27141 | No |
| 31 | GOM_TRA_1PNPDE20070510_035638_000000402058_00033_27141_0299.N1 | 10-MAY-2007 03:56:38 | Straylight | 39.500 | 78 | Alp Lup | 2.3040 | 28000. | 79 | 27141 | No |
| 32 | GOM_TRA_1PNPDE20070510_035809_000000402058_00033_27141_0300.N1 | 10-MAY-2007 03:58:09 | Straylight | 40.000 | 81 | Eta Cen | 2.3560 | 28000. | 80 | 27141 | No |
| 33 | GOM_TRA_1PNPDE20070510_040008_000000422058_00033_27141_0301.N1 | 10-MAY-2007 04:00:08 | Twilight | 42.000 | 54 | 5The Cen | 2.0550 | 4500.0 | 84 | 27141 | No |
| 34 | GOM_TRA_1PNPDE20070510_040418_000000372058_00033_27141_0302.N1 | 10-MAY-2007 04:04:18 | Bright | 37.000 | 169 | 46Gam Hya | 2.9910 | 4700.0 | 74 | 27141 | No |
| 35 | GOM_TRA_1PNPDE20070510_040734_000000372058_00033_27141_0303.N1 | 10-MAY-2007 04:07:34 | Bright | 37.000 | 15 | 67Alp Vir | 0.97600 | 28000. | 74 | 27141 | No |
| 36 | GOM_TRA_1PNPDE20070510_041355_000000352058_00033_27141_0304.N1 | 10-MAY-2007 04:13:55 | Bright | 35.000 | 138 | 47Eps Vir | 2.8280 | 4700.0 | 70 | 27141 | No |

| | | | | | | | | | | | |
|----|----------------------------------------------------------------|----------------------|--------|--------|-----|-----------|--------|--------|----|-------|----|
| 37 | GOM_TRA_1PNPDE20070510_041546_000000362058_00033_27141_0305.N1 | 10-MAY-2007 04:15:46 | Bright | 35.500 | 111 | 8Eta Boo | 2.6800 | 6000.0 | 71 | 27141 | No |
| 38 | GOM_TRA_1PNPDE20070510_042131_000000332058_00033_27141_0306.N1 | 10-MAY-2007 04:21:31 | Bright | 33.000 | 152 | 12Alp2CVn | 2.8900 | 11000. | 66 | 27141 | No |
| 39 | GOM_TRA_1PNPDE20070510_042435_000000362058_00033_27141_0307.N1 | 10-MAY-2007 04:24:35 | Bright | 36.000 | 39 | 85Eta UMa | 1.8540 | 24000. | 72 | 27141 | No |
| 40 | GOM_TRA_1PNPDE20070510_042605_000000352058_00033_27141_0308.N1 | 10-MAY-2007 04:26:05 | Bright | 35.000 | 55 | 79Zet UMa | 2.0600 | 10200. | 70 | 27141 | No |
| 41 | GOM_TRA_1PNPDE20070510_042915_000000362058_00033_27141_0309.N1 | 10-MAY-2007 04:29:15 | Bright | 35.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 71 | 27141 | No |
| 42 | GOM_TRA_1PNPDE20070510_043610_000000342058_00033_27141_0310.N1 | 10-MAY-2007 04:36:10 | Bright | 33.500 | 49 | 1Alp UMi | 1.9900 | 6300.0 | 67 | 27141 | No |

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



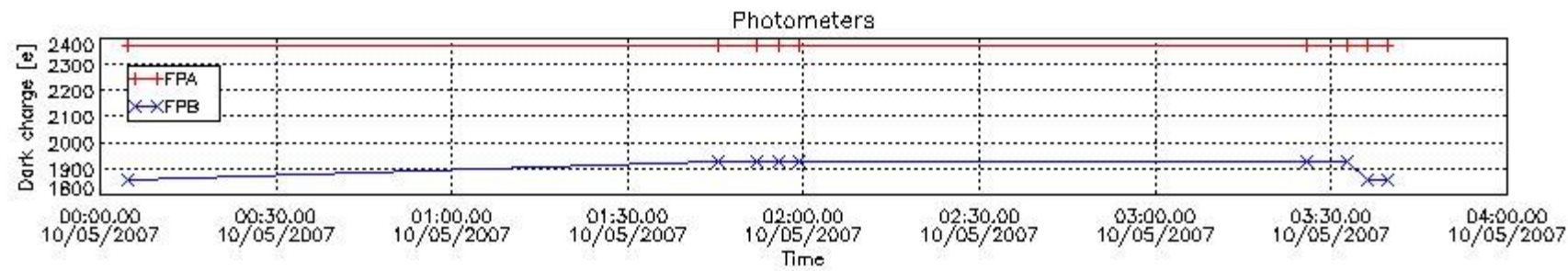
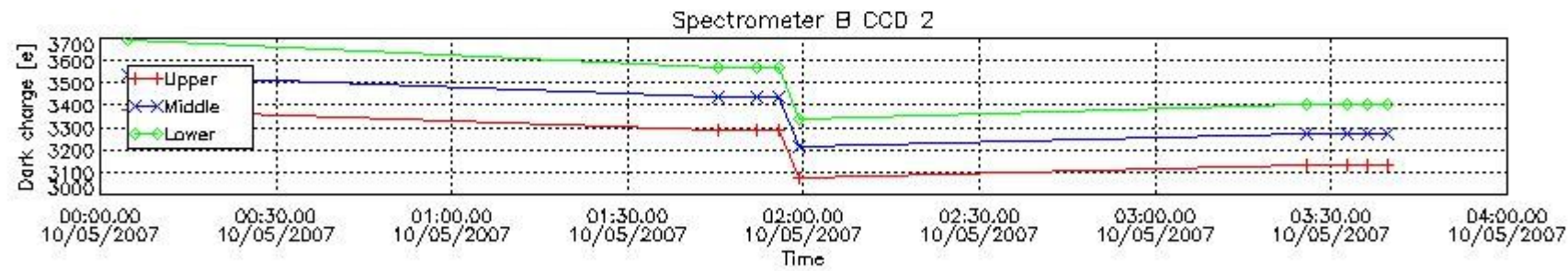
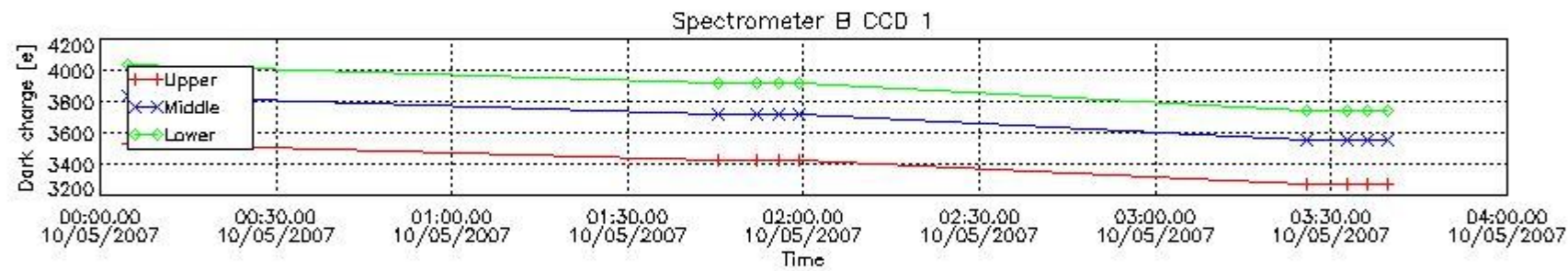
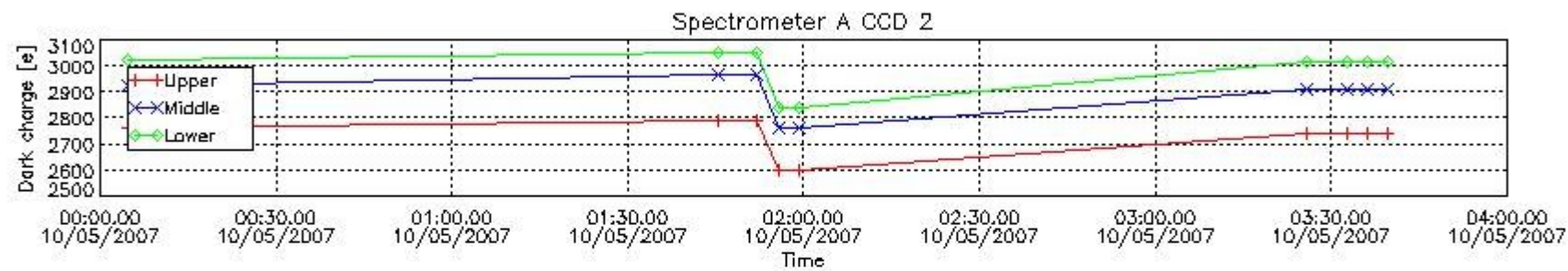
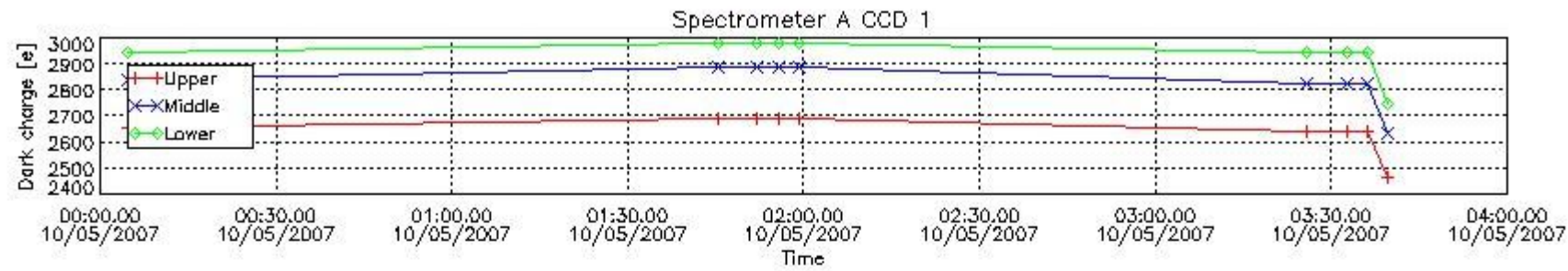
4. Overview of dark signal processing per product

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



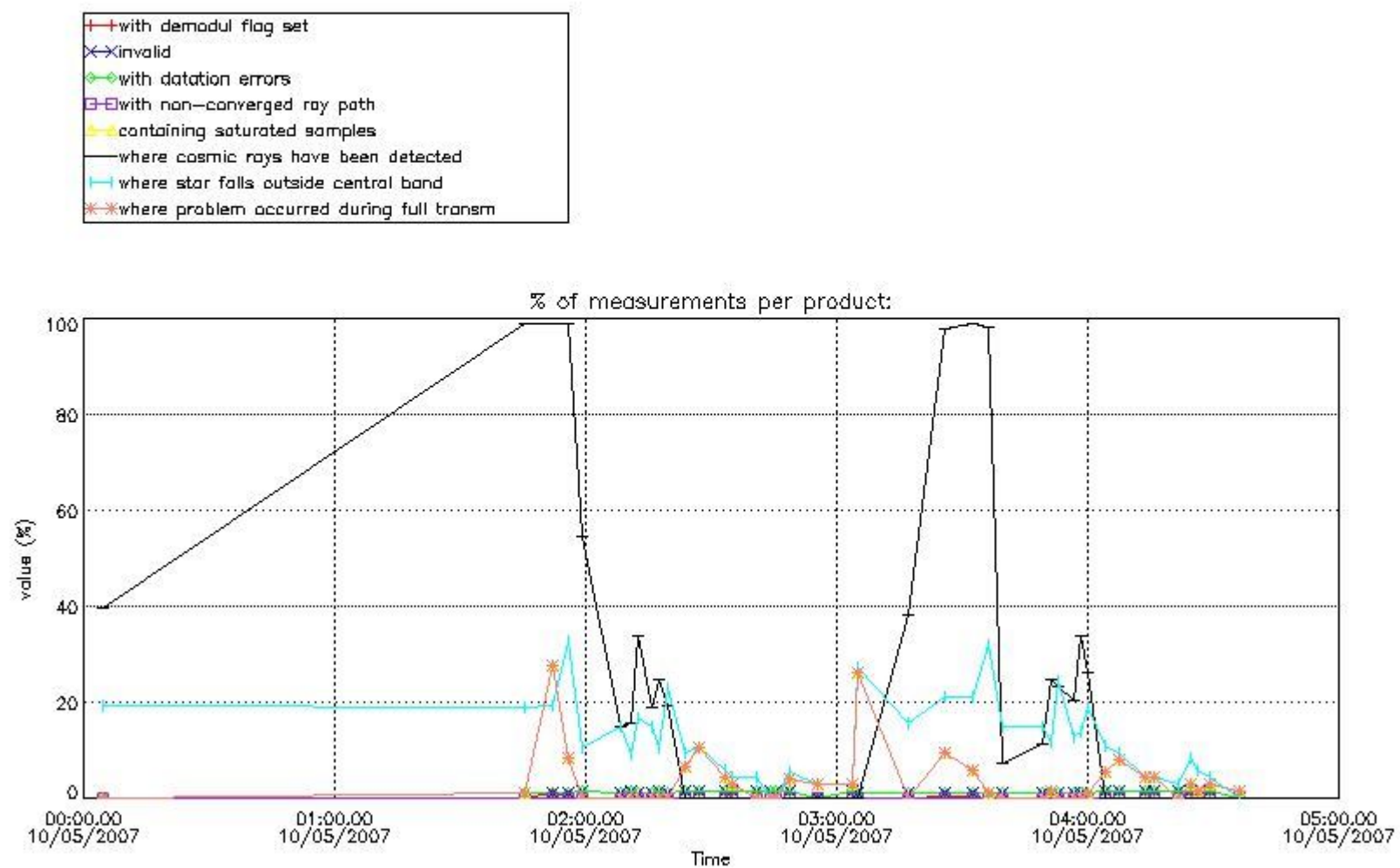
5. Demodulation flag and quality information monitoring

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.

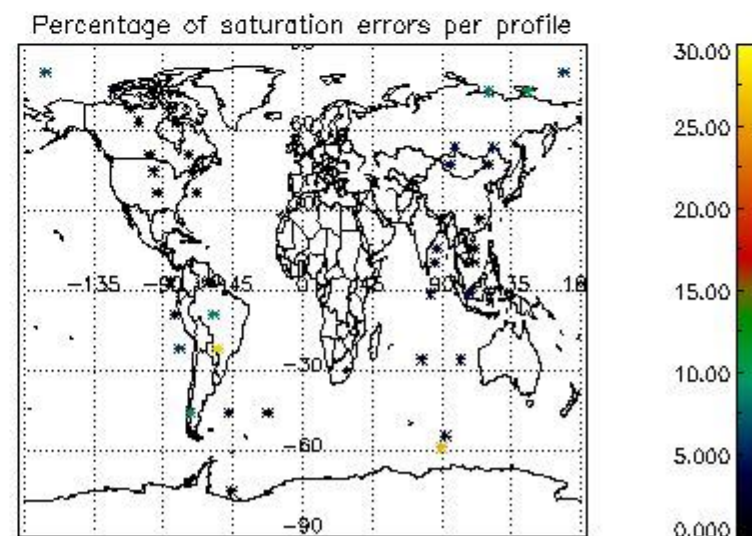
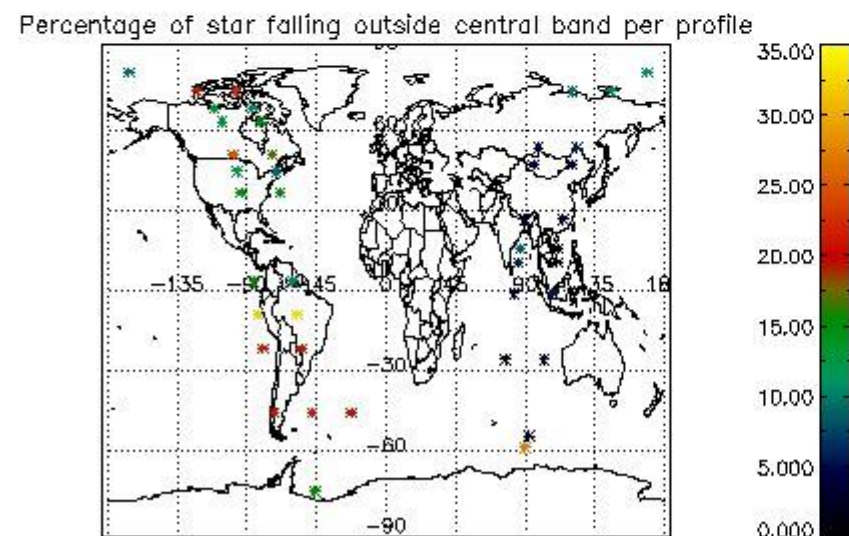
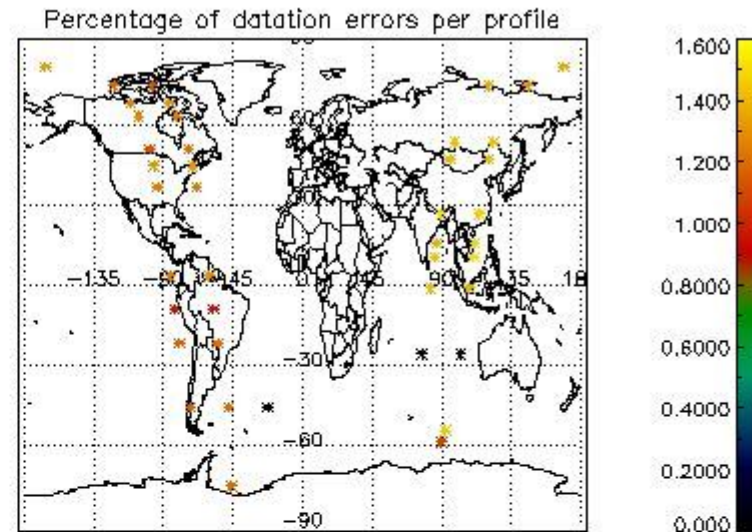
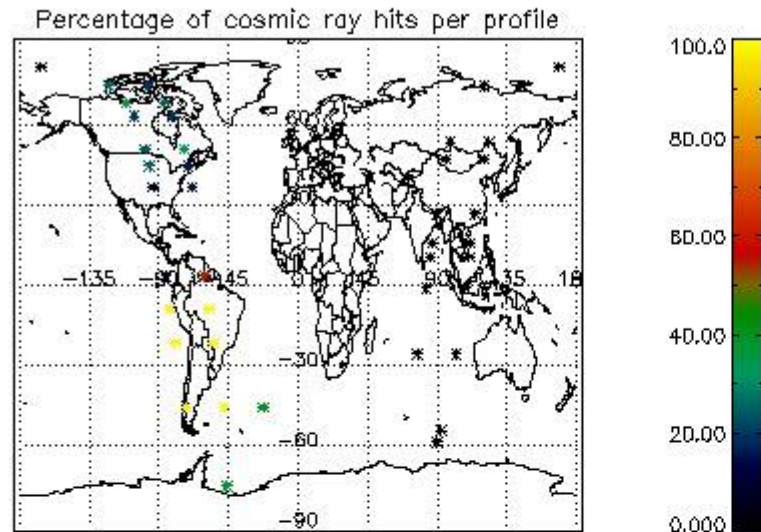
5.1 Percentage of products during reporting period with:

| | |
|-------------------------------------------------------|-----------|
| At least one measurement with demodulation flag set: | 21.4286 % |
| 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)



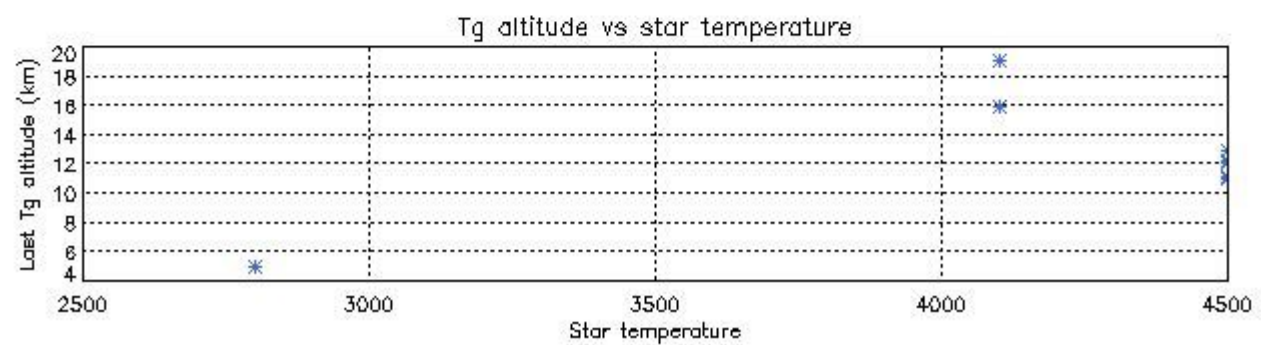
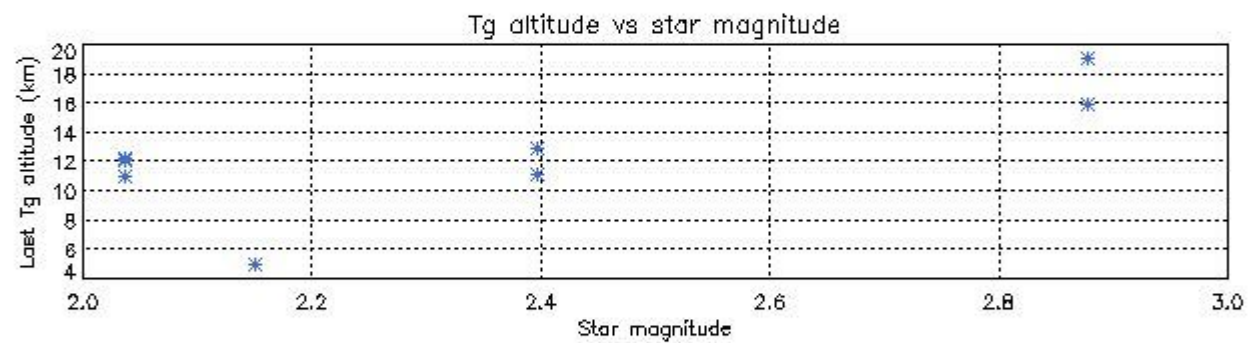
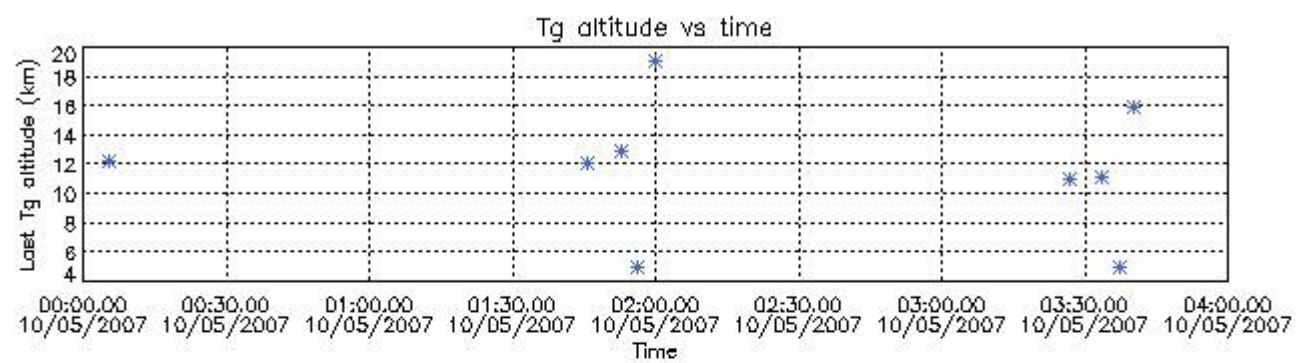
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean: | 11.581 | 21.646 | 12.928 |
| St. deviation: | 4.5398 | 4.3435 | 0.0000 |
| Maximum: | 19.052 | 27.301 | 12.928 |
| Minimum: | 4.8993 | 9.1837 | 12.928 |
| Number of data: | 9.0000 | 20.000 | 1.0000 |

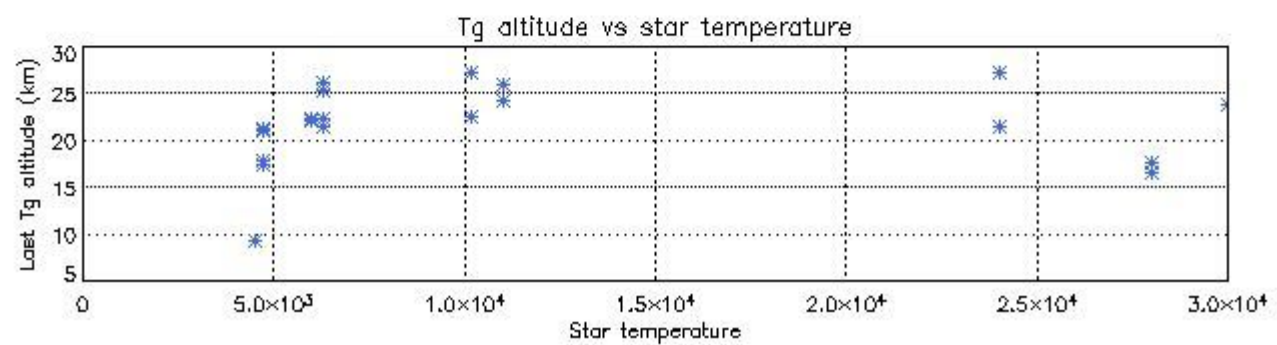
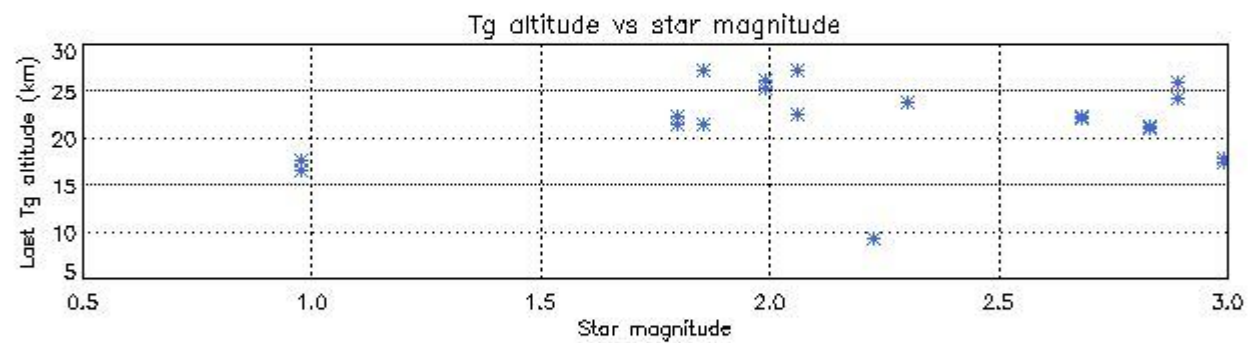
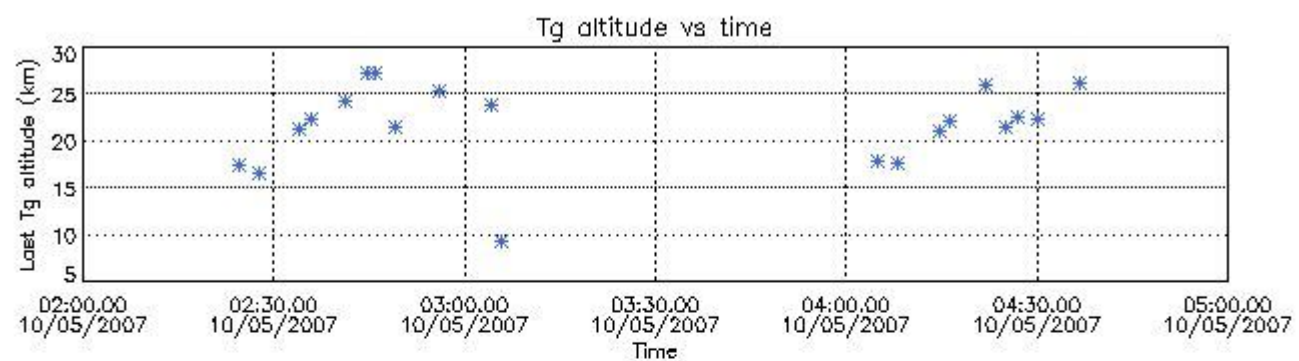
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



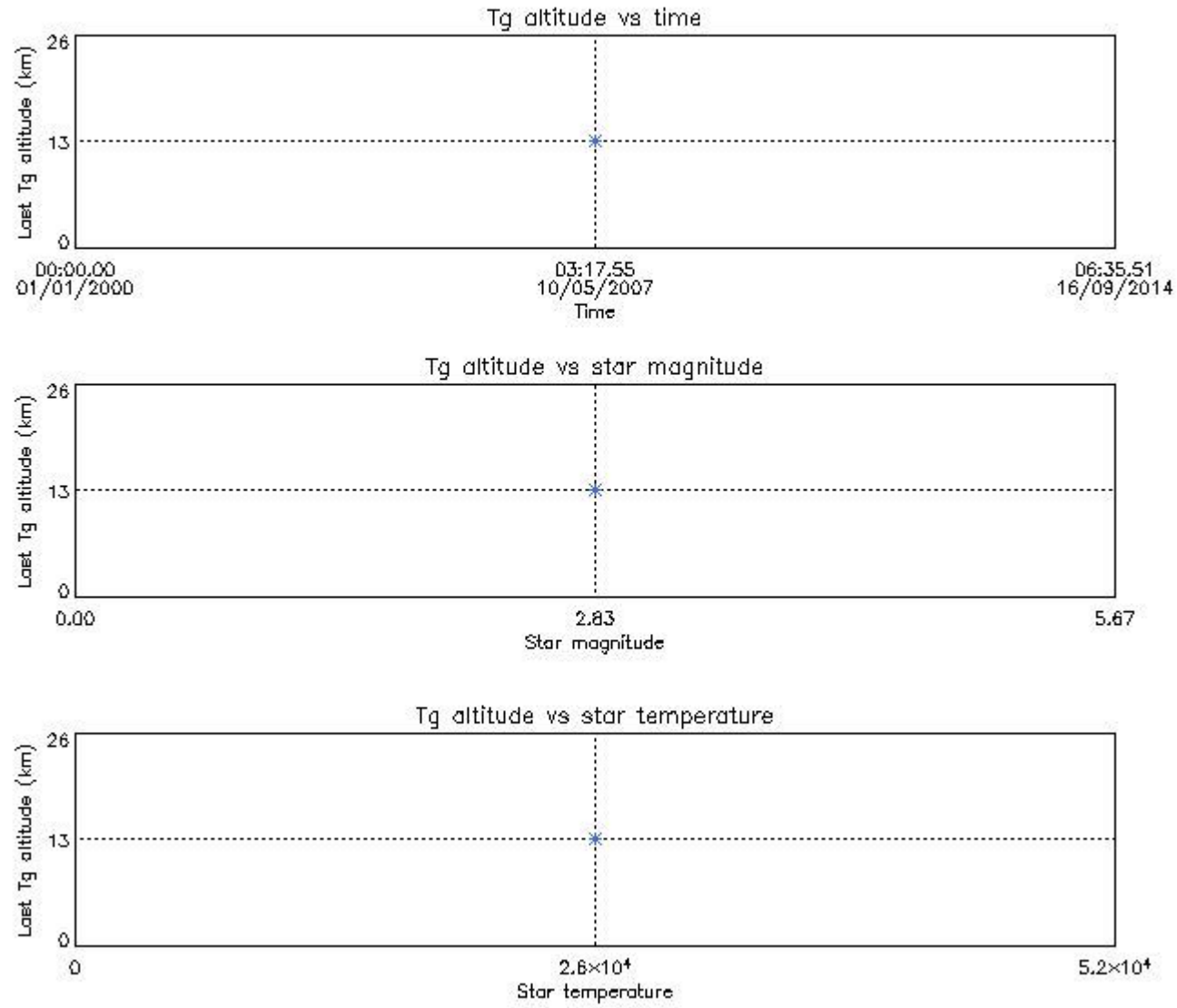
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

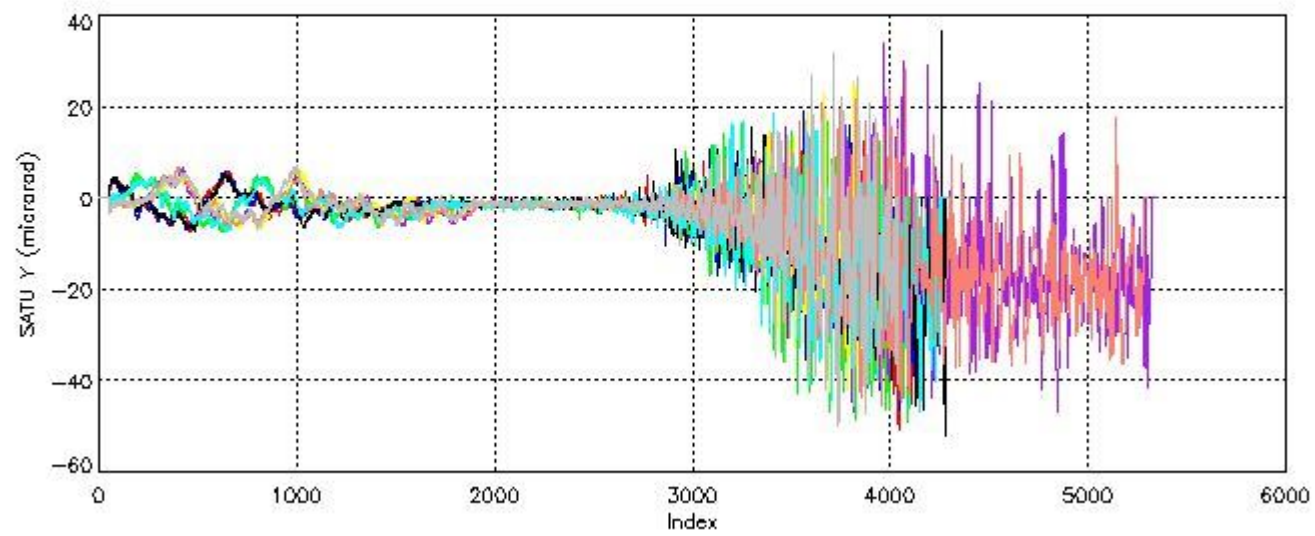
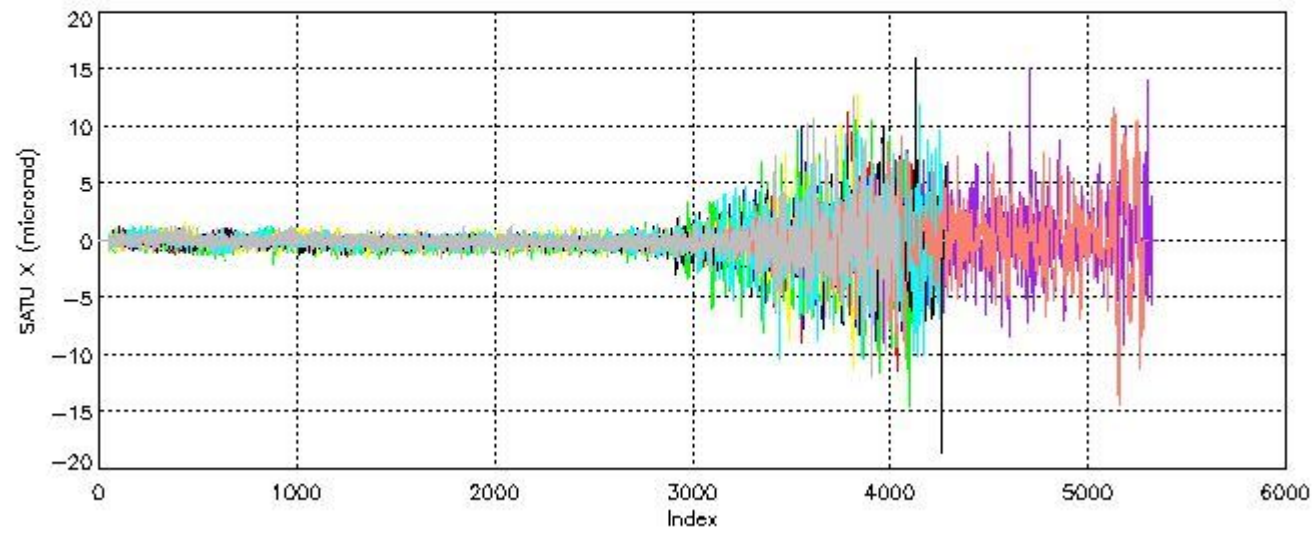


7. Star Acquisition and Tracking Unit (SATU)

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: | -0.0076492 | -0.88384 | 0.017504 | -1.0718 |
| St. deviation: | 0.34323 | 3.0444 | 0.76402 | 3.0754 |
| Maximum: | 1.6000 | 6.6000 | 5.0000 | 7.3000 |
| Minimum: | -1.7000 | -7.4000 | -5.6000 | -9.9000 |

| | | | | |
|-----------------|--------|--------|--------|--------|
| Number of data: | 7950.0 | 7950.0 | 16300. | 16300. |
|-----------------|--------|--------|--------|--------|

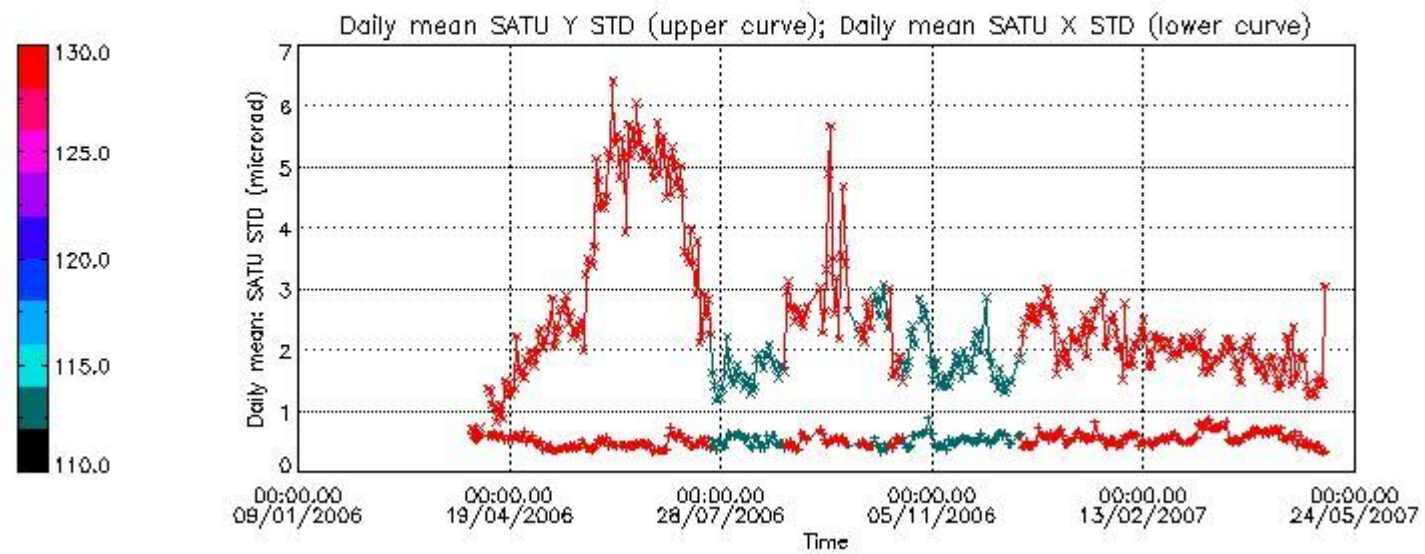
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

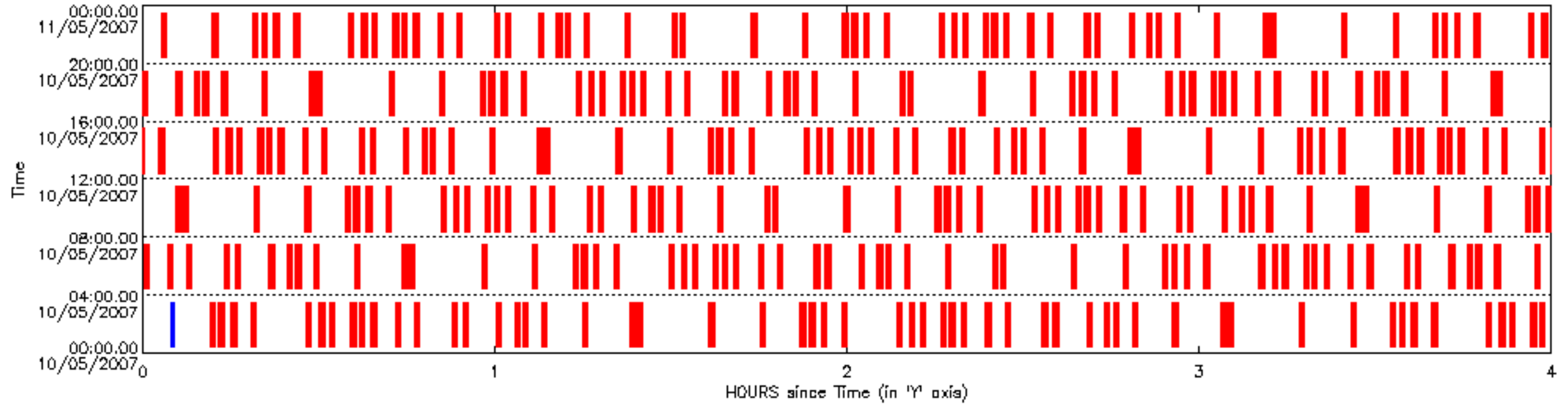
Lower curve: STD of SATU X axis

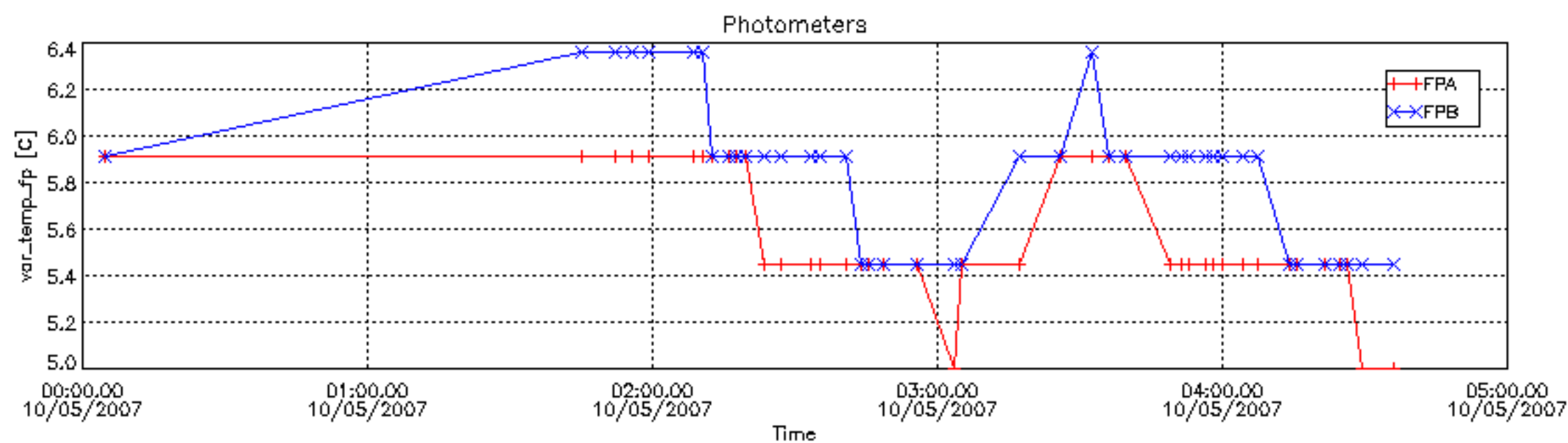
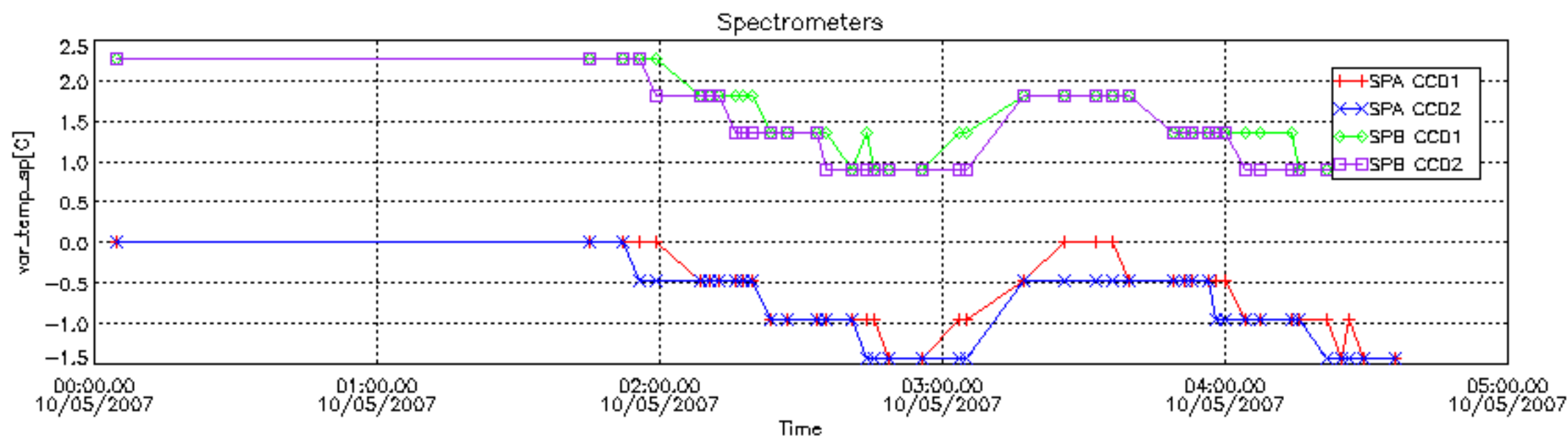


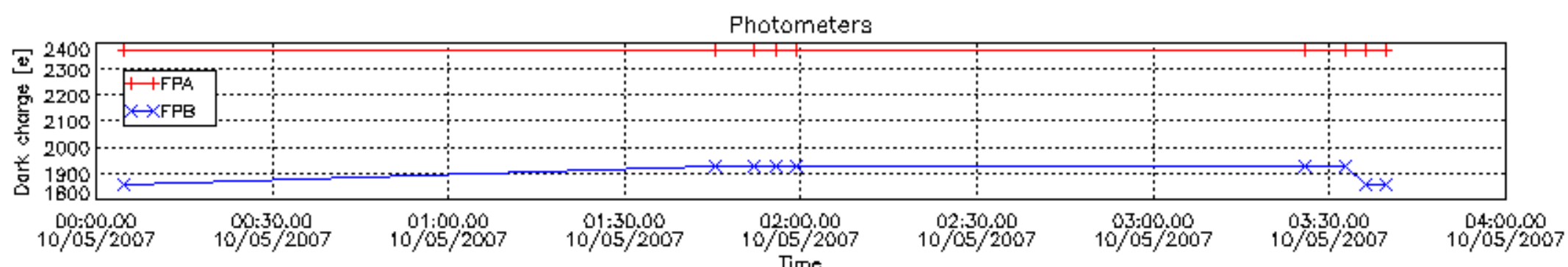
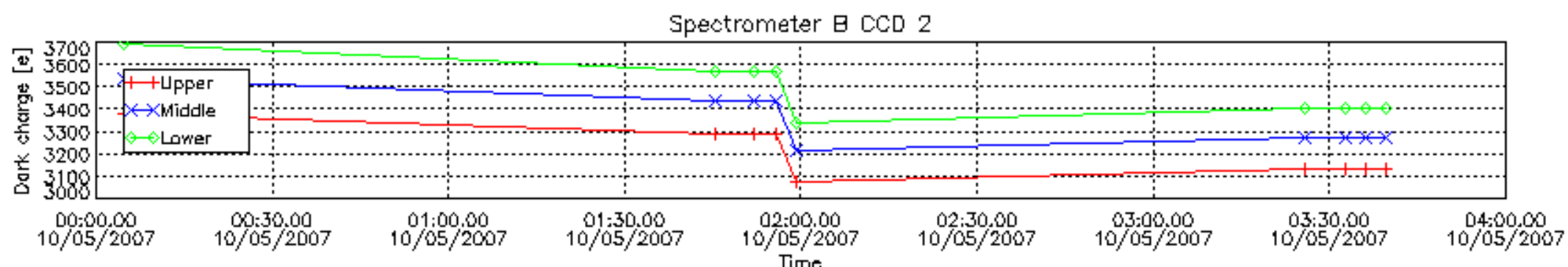
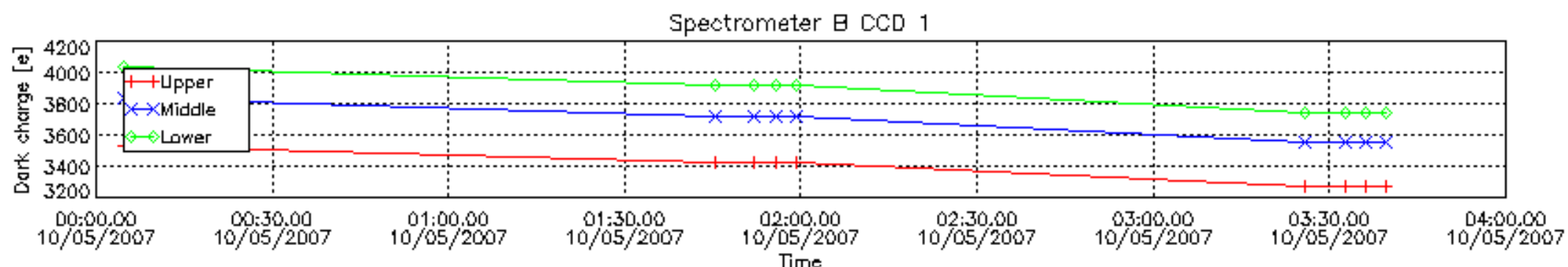
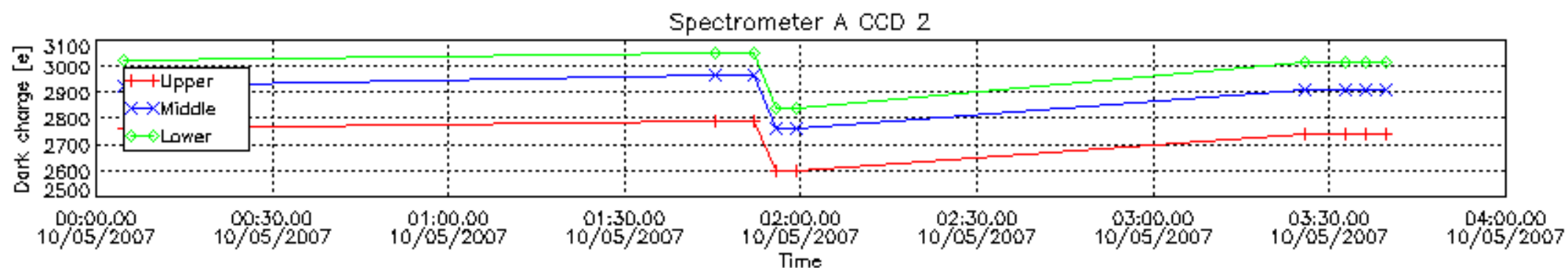
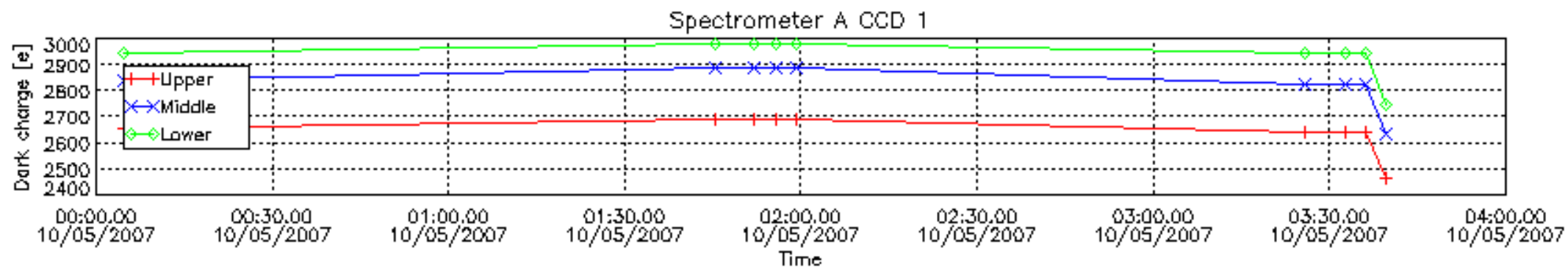
8. Auxiliary Data Files used for the production reported in section 2.4

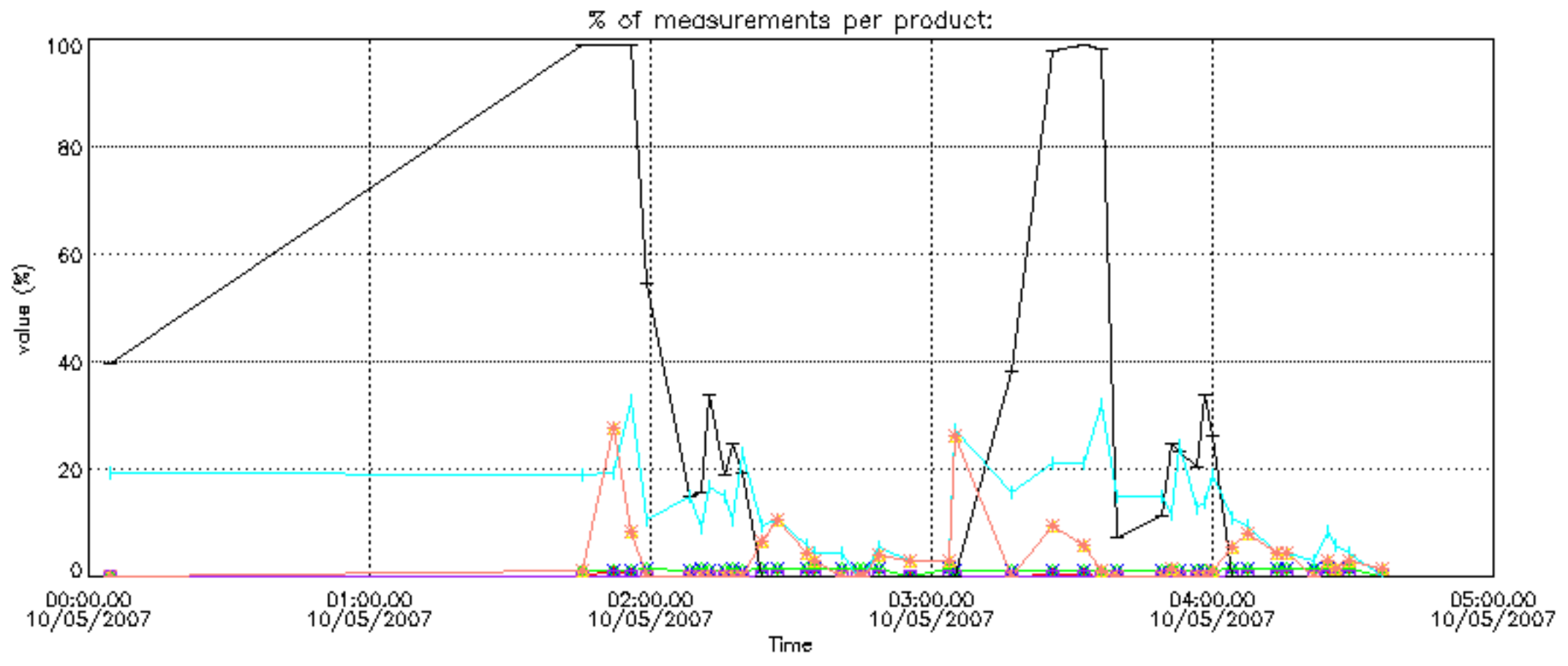
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|----------------------------------------------------------------|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000 | 1 | 10-MAY-2007 00:04:40 |
| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20070503_074756_20070502_000000_20100101_000000 | 1 | 10-MAY-2007 00:04:40 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000 | 1 | 10-MAY-2007 00:04:40 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 10-MAY-2007 00:04:40 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000 | 1 | 10-MAY-2007 00:04:40 |
| ECMWF_FILE | AUX_ECF_AXNECM20070509_062112_20070509_210000_20070510_090000 | 1 | 10-MAY-2007 00:04:40 |
| ECMWF_FILE | AUX_ECF_AXNECM20070509_182115_20070510_030000_20070510_150000 | 21 | 10-MAY-2007 03:03:43 |
| OPTIONAL_ECMWF_FILE | MISSING | 1 | 10-MAY-2007 00:04:40 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20070509_210836_000041442058_00029_27137_3449.N1 | 1 | 10-MAY-2007 00:04:40 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20070510_000356_000057382058_00030_27138_3451.N1 | 2 | 10-MAY-2007 01:45:16 |
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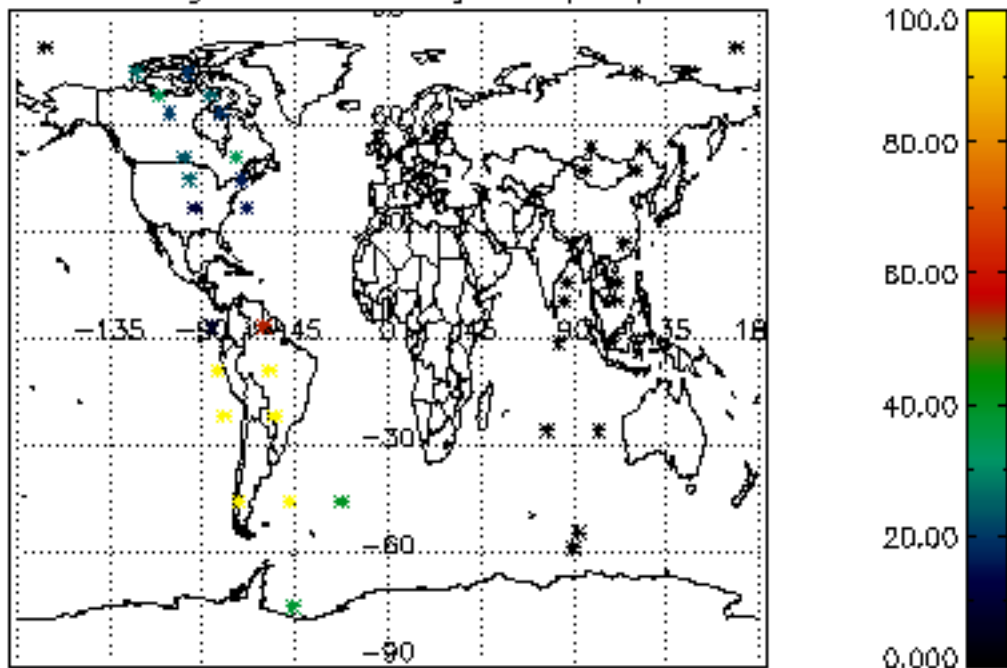




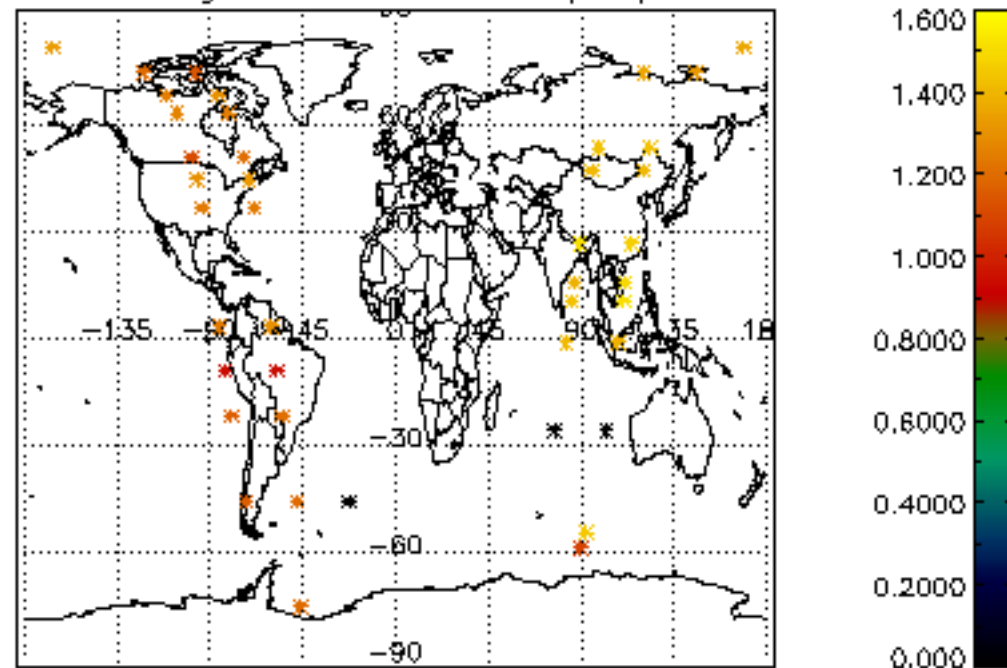




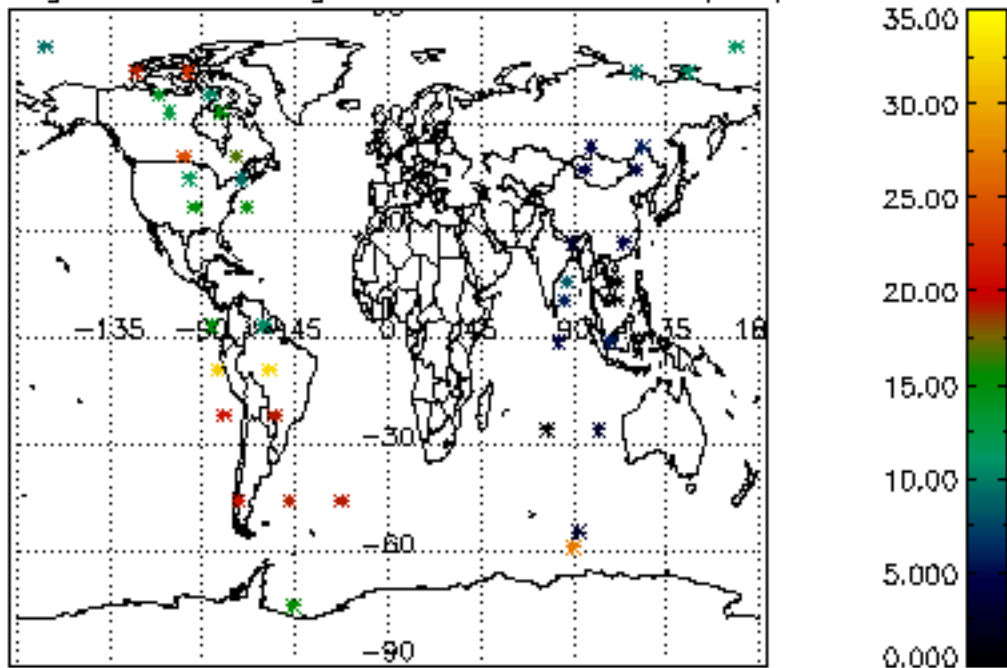
Percentage of cosmic ray hits per profile



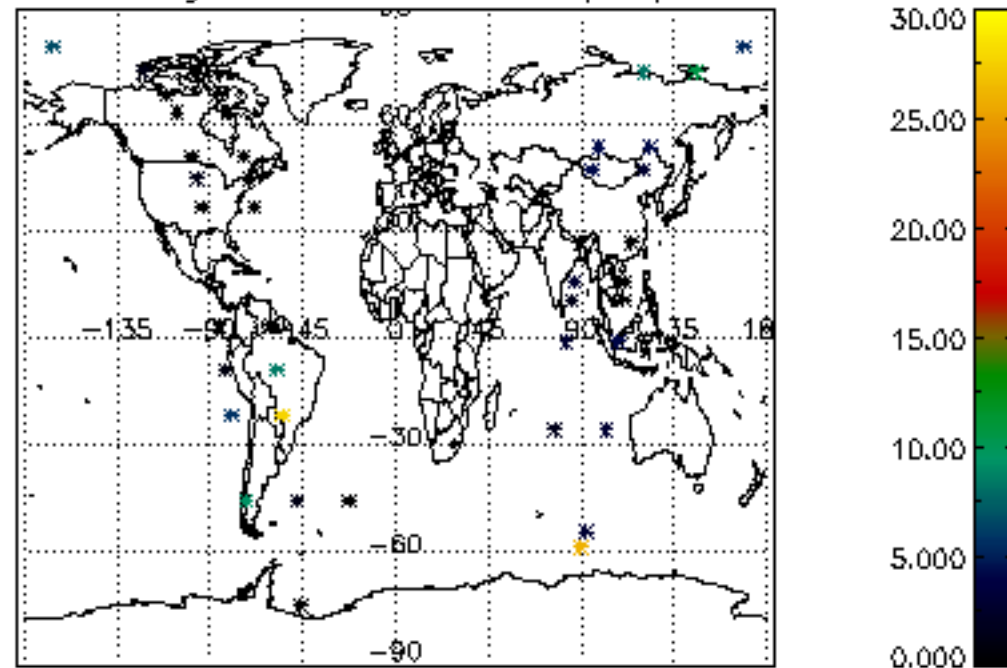
Percentage of datation errors per profile



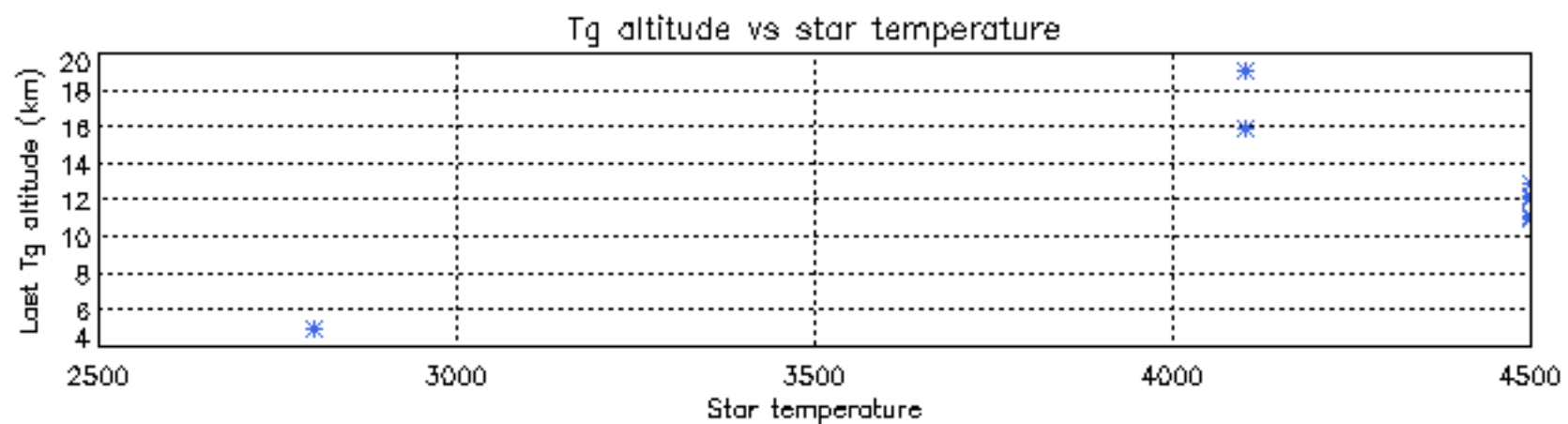
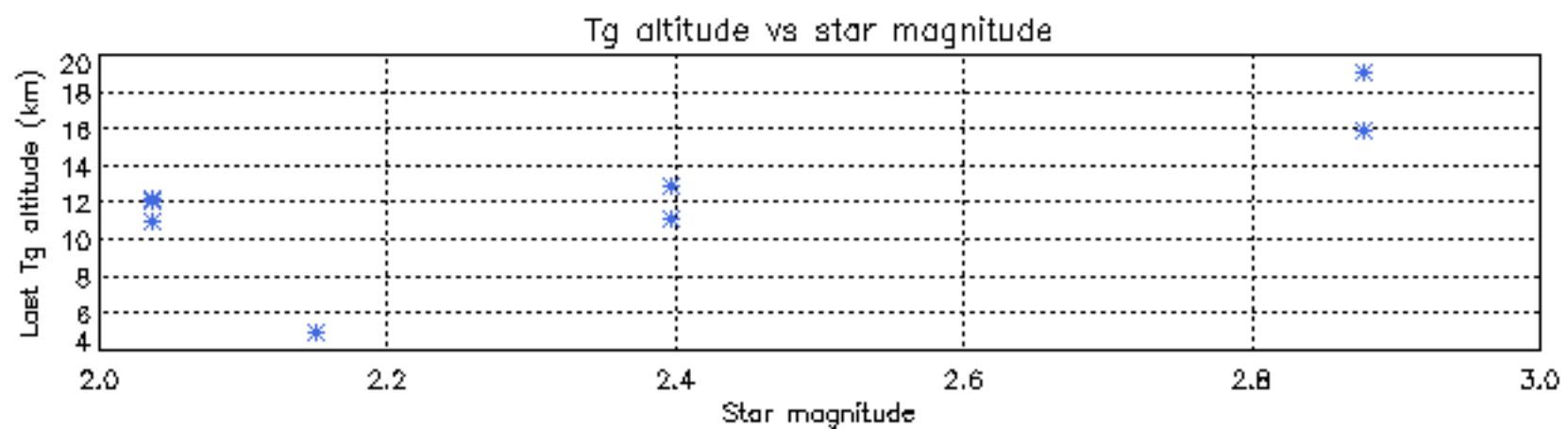
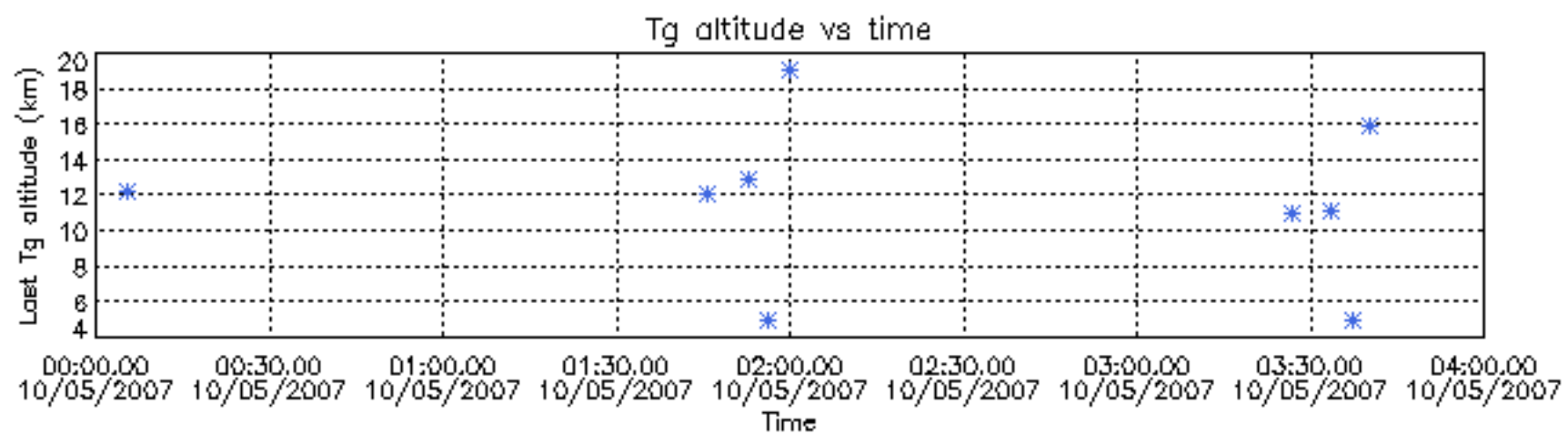
Percentage of star falling outside central band per profile



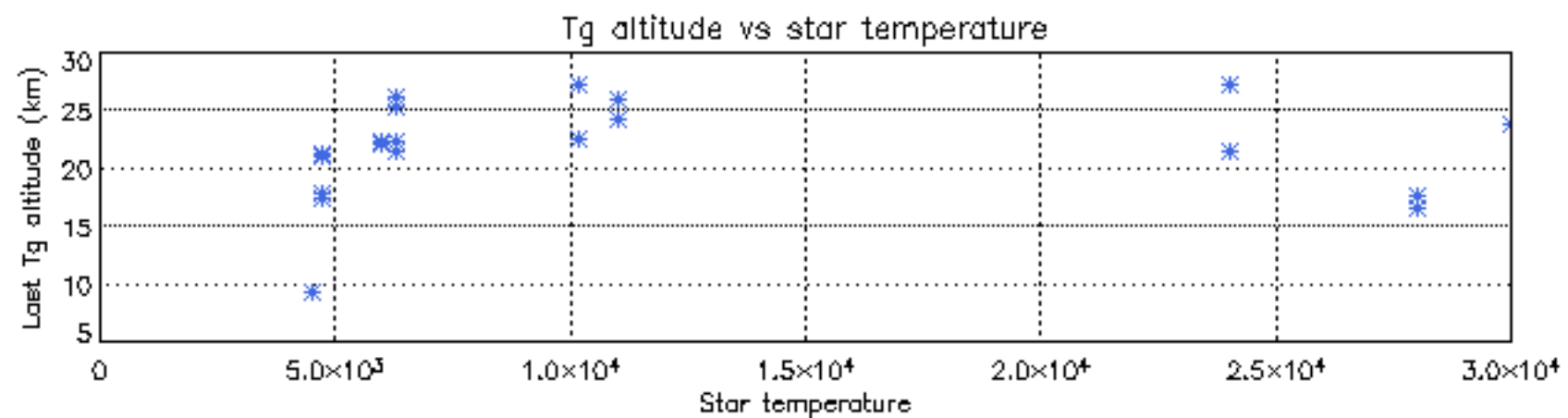
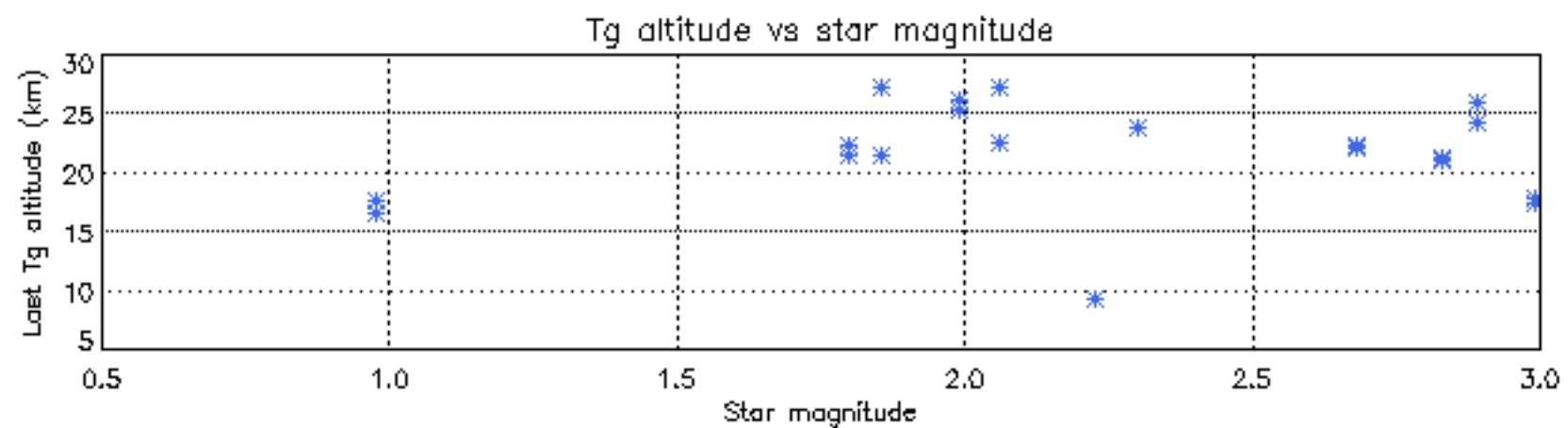
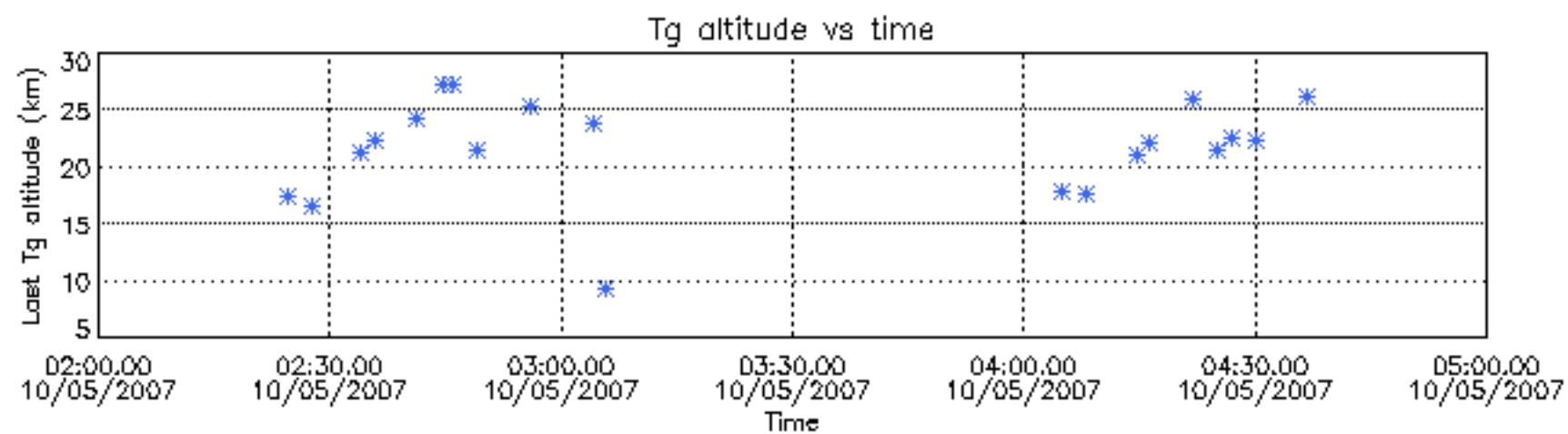
Percentage of saturation errors per profile



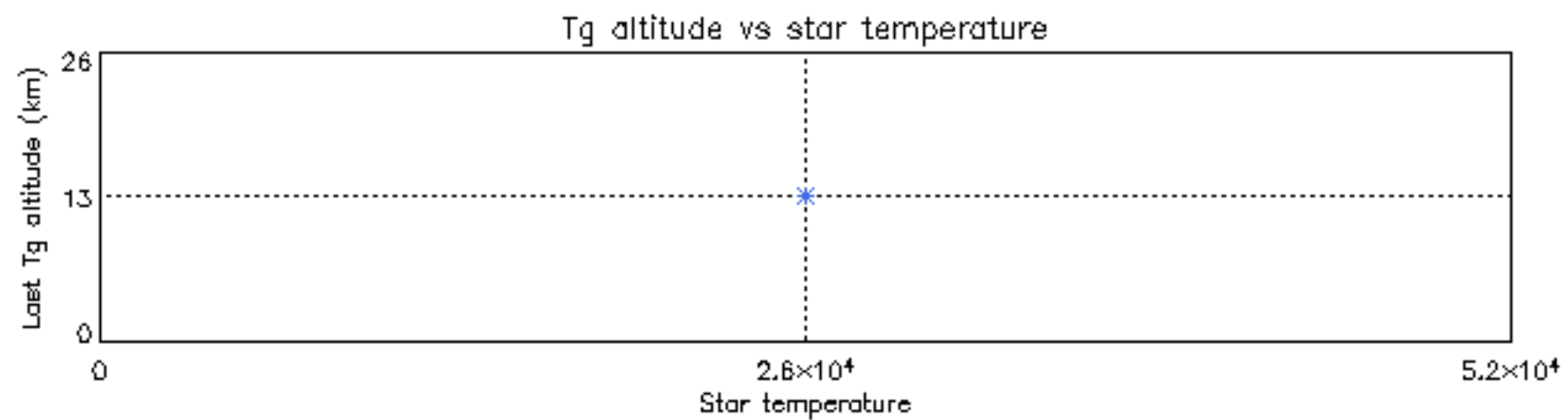
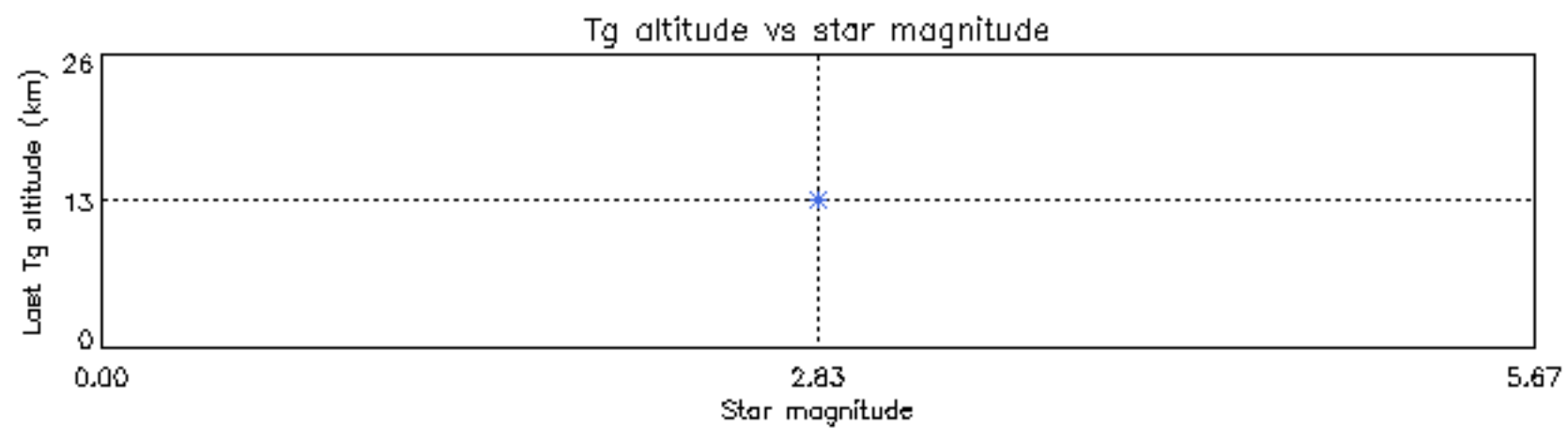
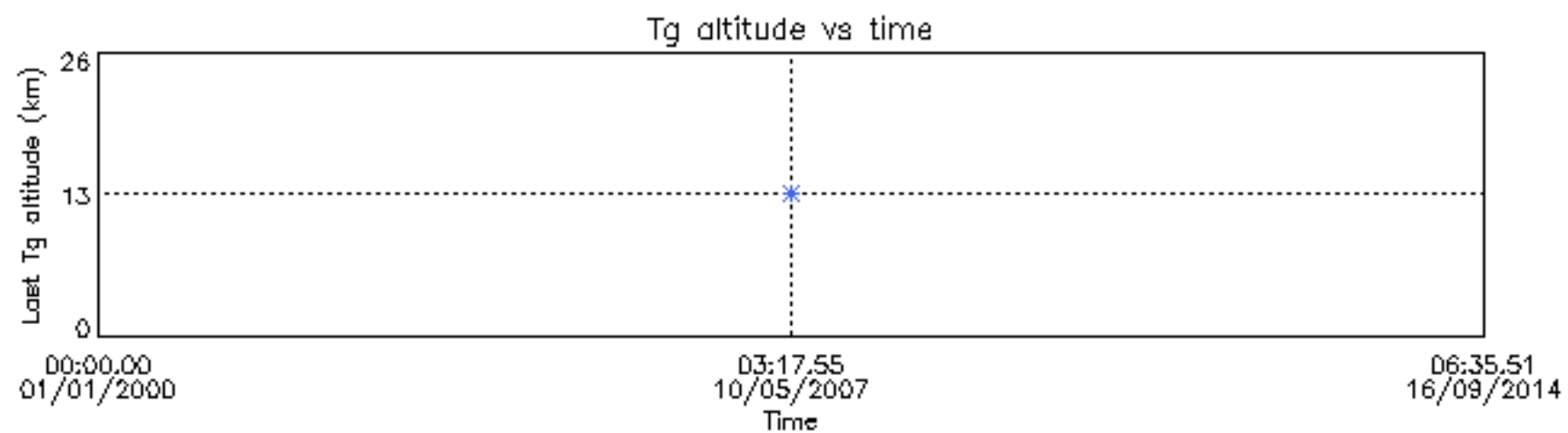
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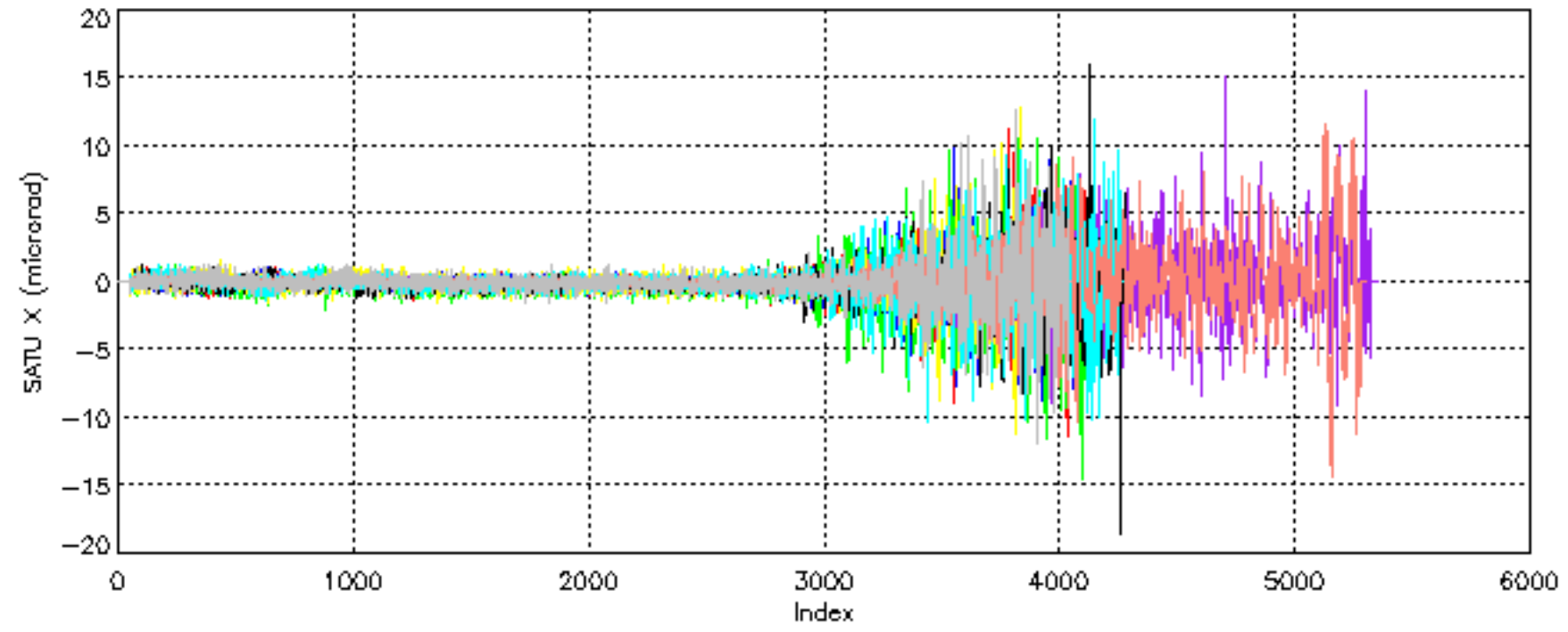


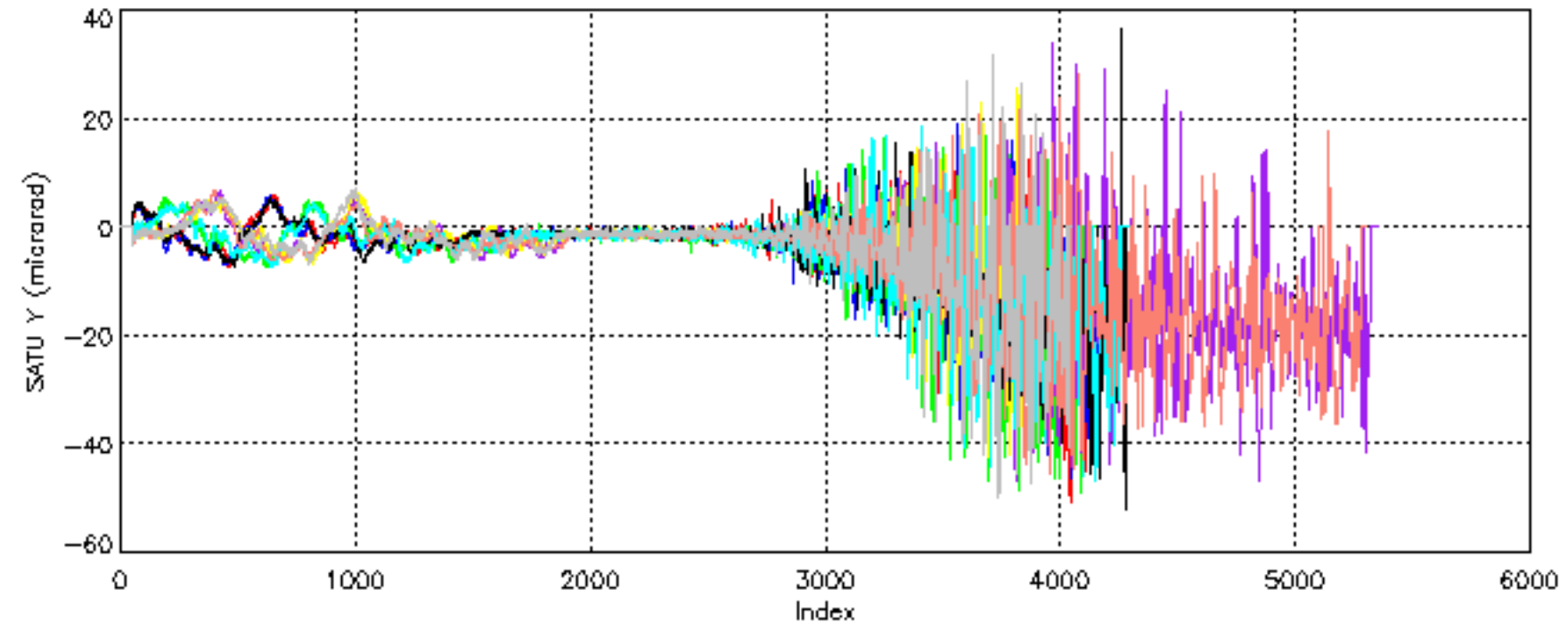
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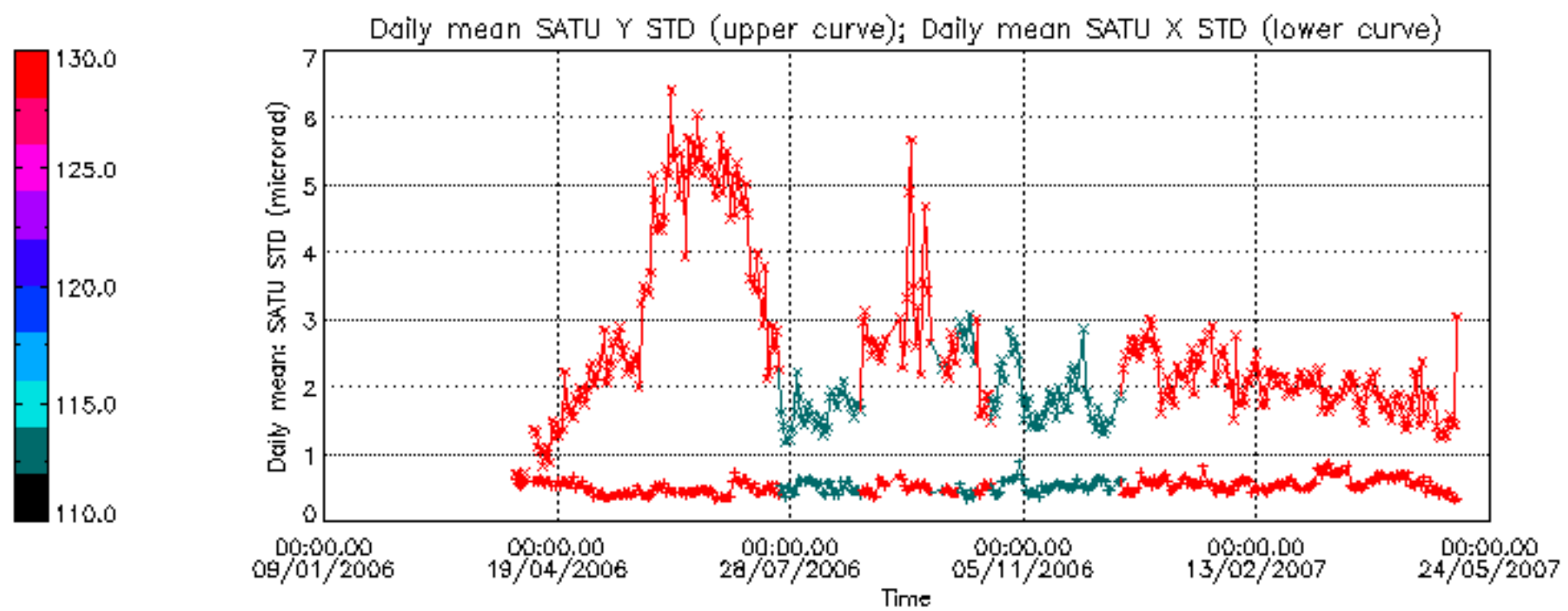


Tangent altitude at which the star is lost









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15; 3923.1; 03-MAY-2007 21:50:14; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;27051
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17; 3004.9; 03-MAY-2007 23:15:31; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;27052
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4; 23.1; 04-MAY-2007 00:06:25; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;27053
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6; 722.1; 04-MAY-2007 00:18:04; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27053
7; 842.2; 04-MAY-2007 00:20:04; Dark ; 44.5; 4; Alp1Cen ; -0.01; 5800;occ; 89; 0;27053
8; 1049.2; 04-MAY-2007 00:23:31; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;27053

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 11; 1519.0; 04-MAY-2007 00:31:21; Bright; 37.5; 169; 46Gam Hya ; 2.99; 4700;occ; 75; 0;27053
 12; 1716.7; 04-MAY-2007 00:34:39; Bright; 39.0; 15; 67Alp Vir ; 0.98; 28000;occ; 78; 0;27053
 13; 1902.8; 04-MAY-2007 00:37:45; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;27053
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 18; 3005.1; 04-MAY-2007 00:56:07; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27053
 19; 3444.9; 04-MAY-2007 01:03:27; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27053
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 6; 19.4; 03-MAY-2007 07:20:22; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27043
 7; 586.9; 03-MAY-2007 07:29:50; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;27043
 8; 718.9; 03-MAY-2007 07:32:02; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27043
 9; 839.8; 03-MAY-2007 07:34:03; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27043
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 12; 1262.4; 03-MAY-2007 07:41:05; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;27043
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 8; 718.9; 03-MAY-2007 07:32:02; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27043
 9; 839.8; 03-MAY-2007 07:34:03; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27043
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 11; 1138.5; 03-MAY-2007 07:39:02; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27043
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 4; 2559.9; 03-MAY-2007 08:02:43; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27043
 5; 2837.4; 03-MAY-2007 08:07:20; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;27043
 6; 2925.1; 03-MAY-2007 08:08:48; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;27043
 7; 3002.6; 03-MAY-2007 08:10:06; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;27043
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 9; 3922.2; 03-MAY-2007 08:25:25; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;27043
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 11; 5556.4; 03-MAY-2007 08:52:39; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;27043
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6; 2925.3; 03-MAY-2007 09:49:24; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;27044
7; 3002.8; 03-MAY-2007 09:50:42; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;27044
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17; 6876.1; 03-MAY-2007 10:55:15; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;27044
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3; 2098.0; 03-MAY-2007 11:16:13; Bright; 36.5; 138; 47Eps Vir ; 2.83; 4700;occ; 73; 0;27045
4; 2559.8; 03-MAY-2007 11:23:55; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27045
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7; 591.8; 04-MAY-2007 06:58:18; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;27057
8; 723.7; 04-MAY-2007 07:00:30; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27057
9; 843.3; 04-MAY-2007 07:02:29; Dark ; 51.0; 4; Alp1Cen ; -0.01; 5800;occ; 102; 0;27057
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11; 1142.6; 04-MAY-2007 07:07:29; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27057
12; 1265.5; 04-MAY-2007 07:09:32; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27057
13; 1519.7; 04-MAY-2007 07:13:46; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 0;27057
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 16; 6629.2; 04-MAY-2007 13:40:43; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;27060
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7; 845.9; 05-MAY-2007 01:29:07; Dark ; 39.5; 4; Alp1Cen ; -0.01; 5800;occ; 79; 0;27068
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9; 1145.6; 05-MAY-2007 01:34:07; Dark ; 39.5; 81; Eta Cen ; 2.36; 28000;occ; 79; 0;27068
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 7; 3010.8; 05-MAY-2007 12:08:48; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;27074
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3; 1194.6; 21-MAY-2007 06:33:52; Dark ; 50.0; 75; 26Eps Sco ; 2.29; 4250;occ; 100; 0;27300
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16; 6413.4; 21-MAY-2007 09:41:27; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27301
17; 6829.4; 21-MAY-2007 09:48:23; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27301
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23; 7767.6; 21-MAY-2007 10:04:01; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;27301

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5; 2562.4; 21-MAY-2007 10:17:52; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;27302
6; 3060.6; 21-MAY-2007 10:26:10; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27302
7; 3175.6; 21-MAY-2007 10:28:05; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27302
8; 3446.4; 21-MAY-2007 10:32:36; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27302
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13; 5313.5; 21-MAY-2007 11:03:43; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;27302
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21; 7232.1; 21-MAY-2007 13:16:17; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27303
22; 7407.9; 21-MAY-2007 13:19:13; Dark ; 60.0; 16; 21Alp Sco ; 1.02; 3000;occ; 120; 0;27303
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9; 3059.4; 21-MAY-2007 15:27:56; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;27305
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2; 2370.8; 23-MAY-2007 09:11:26; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;27330
3; 2560.8; 23-MAY-2007 09:14:36; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;27330
4; 3049.5; 23-MAY-2007 09:22:45; Bright; 46.5; 119; 14Eta Dra ; 2.73; 4700;occ; 93; 0;27330
5; 3173.3; 23-MAY-2007 09:24:49; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;27330
6; 3446.6; 23-MAY-2007 09:29:22; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;27330
7; 3937.3; 23-MAY-2007 09:37:33; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;27330
8; 4009.6; 23-MAY-2007 09:38:45; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;27330
9; 4531.8; 23-MAY-2007 09:47:27; Dark ; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;27330
10; 4797.0; 23-MAY-2007 09:51:53; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;27330
11; 5325.1; 23-MAY-2007 10:00:41; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;27330
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13; 6010.1; 23-MAY-2007 10:12:06; Dark ; 59.0; 63; Bet Gru ; 2.15; 2800;occ; 118; 0;27330
14; 6110.1; 23-MAY-2007 10:13:46; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27330
15; 6433.8; 23-MAY-2007 10:19:09; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27330
16; 6842.7; 23-MAY-2007 10:25:58; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27330
17; 7008.2; 23-MAY-2007 10:28:44; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;27330
18; 7242.7; 23-MAY-2007 10:32:38; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;27330
19; 7415.2; 23-MAY-2007 10:35:31; Dark ; 55.5; 16; 21Alp Sco ; 1.02; 3000;occ; 111; 0;27330
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21; 7666.0; 23-MAY-2007 10:39:42; Bright; 35.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 70; 0;27330

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2; 1733.9; 23-MAY-2007 10:41:25; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;27331
3; 2026.0; 23-MAY-2007 10:46:18; Bright; 39.5; 102; 24Alp Ser ; 2.60; 4250;occ; 79; 0;27331
4; 2370.8; 23-MAY-2007 10:52:02; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;27331
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8; 3446.6; 23-MAY-2007 11:09:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27331
9; 3937.2; 23-MAY-2007 11:18:09; Bright; 34.0; 76; 27Gam Cas ; 2.30; 30000;occ; 68; 0;27331
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11; 4531.9; 23-MAY-2007 11:28:03; Dark ; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;27331
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13; 5325.6; 23-MAY-2007 11:41:17; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;27331
14; 5847.9; 23-MAY-2007 11:49:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27331
15; 6010.8; 23-MAY-2007 11:52:42; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;27331
16; 6110.9; 23-MAY-2007 11:54:22; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27331
17; 6434.6; 23-MAY-2007 11:59:46; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27331
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21; 7415.4; 23-MAY-2007 12:16:07; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;27331
22; 7560.0; 23-MAY-2007 12:18:32; Bright; 40.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 81; 0;27331
23; 7666.0; 23-MAY-2007 12:20:18; Bright; 16.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 33; 0;27331

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| 1; | 1630.2; | 23-MAY-2007 | 12:20:18; | Bright; | 36.5; | 122; | 9Alp2Lib | ; | 2.75; | 9700;occ; | 73; | 0; | 27332 |
| 2; | 1734.1; | 23-MAY-2007 | 12:22:02; | Bright; | 37.0; | 104; | 27Bet Lib | ; | 2.61; | 13100;occ; | 74; | 0; | 27332 |
| 3; | 2025.9; | 23-MAY-2007 | 12:26:53; | Bright; | 39.5; | 102; | 24Alp Ser | ; | 2.60; | 4250;occ; | 79; | 0; | 27332 |
| 4; | 2370.7; | 23-MAY-2007 | 12:32:38; | Bright; | 36.0; | 83; | | ; | 2.38; | 11000;occ; | 72; | 0; | 27332 |
| 5; | 2560.6; | 23-MAY-2007 | 12:35:48; | Bright; | 34.0; | 180; | 27Gam Boo | ; | 3.04; | 8000;occ; | 68; | 0; | 27332 |
| 6; | 3048.6; | 23-MAY-2007 | 12:43:56; | Bright; | 40.0; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ; | 80; | 0; | 27332 |
| 7; | 3173.1; | 23-MAY-2007 | 12:46:01; | Bright; | 35.0; | 60; | 7Bet UMi | ; | 2.08; | 3950;occ; | 70; | 0; | 27332 |
| 8; | 3446.6; | 23-MAY-2007 | 12:50:34; | Bright; | 33.5; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 67; | 0; | 27332 |
| 9; | 3937.2; | 23-MAY-2007 | 12:58:45; | Bright; | 37.5; | 76; | 27Gam Cas | ; | 2.30; | 30000;occ; | 75; | 0; | 27332 |
| 10; | 4009.5; | 23-MAY-2007 | 12:59:57; | Bright; | 46.5; | 68; | 18Alp Cas | ; | 2.22; | 4500;occ; | 93; | 0; | 27332 |
| 11; | 4532.2; | 23-MAY-2007 | 13:08:40; | Dark | ; | 58; | 21Alp And | ; | 2.07; | 11000;occ; | 93; | 0; | 27332 |
| 12; | 4797.6; | 23-MAY-2007 | 13:13:05; | Dark | ; | 140; | 88Gam Peg | ; | 2.83; | 26000;occ; | 90; | 0; | 27332 |
| 13; | 5326.1; | 23-MAY-2007 | 13:21:53; | Dark | ; | 52; | 16Bet Cet | ; | 2.04; | 4500;occ; | 87; | 0; | 27332 |
| 14; | 5848.5; | 23-MAY-2007 | 13:30:36; | Dark | ; | 0; | | ; | 0.00; | 0;occ; | 119; | 0; | 27332 |
| 15; | 6011.6; | 23-MAY-2007 | 13:33:19; | Dark | ; | 63; | Bet Gru | ; | 2.15; | 2800;occ; | 114; | 0; | 27332 |
| 16; | 6111.7; | 23-MAY-2007 | 13:34:59; | Dark | ; | 31; | Alp Gru | ; | 1.73; | 15200;occ; | 98; | 0; | 27332 |
| 17; | 6435.3; | 23-MAY-2007 | 13:40:23; | Dark | ; | 45; | Alp Pav | ; | 1.94; | 26000;occ; | 95; | 0; | 27332 |
| 18; | 6843.6; | 23-MAY-2007 | 13:47:11; | Dark | ; | 141; | Bet Ara | ; | 2.84; | 4600;occ; | 82; | 0; | 27332 |
| 19; | 7009.4; | 23-MAY-2007 | 13:49:57; | Dark | ; | 40; | The Sco | ; | 1.86; | 7100;occ; | 94; | 0; | 27332 |
| 20; | 7243.5; | 23-MAY-2007 | 13:53:51; | Dark | ; | 75; | 26Eps Sco | ; | 2.29; | 4250;occ; | 99; | 0; | 27332 |
| 21; | 7415.7; | 23-MAY-2007 | 13:56:43; | Dark | ; | 16; | 21Alp Sco | ; | 1.02; | 3000;occ; | 119; | 0; | 27332 |

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| 2; | 1630.4; | 23-MAY-2007 | 14:00:54; | Bright; | 35.5; | 122; | 9Alp2Lib | ; | 2.75; | 9700;occ; | 71; | 0; | 27333 | |
| 3; | 1734.1; | 23-MAY-2007 | 14:02:37; | Bright; | 37.5; | 104; | 27Bet Lib | ; | 2.61; | 13100;occ; | 75; | 0; | 27333 | |
| 4; | 2025.8; | 23-MAY-2007 | 14:07:29; | Bright; | 39.5; | 102; | 24Alp Ser | ; | 2.60; | 4250;occ; | 79; | 0; | 27333 | |
| 5; | 2370.8; | 23-MAY-2007 | 14:13:14; | Bright; | 36.0; | 83; | | ; | 2.38; | 11000;occ; | 72; | 0; | 27333 | |
| 6; | 2560.6; | 23-MAY-2007 | 14:16:24; | Bright; | 35.0; | 180; | 27Gam Boo | ; | 3.04; | 8000;occ; | 70; | 0; | 27333 | |
| 7; | 3048.3; | 23-MAY-2007 | 14:24:32; | Bright; | 58.0; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ; | 116; | 0; | 27333 | |
| 8; | 3173.1; | 23-MAY-2007 | 14:26:36; | Bright; | 38.5; | 60; | 7Bet UMi | ; | 2.08; | 3950;occ; | 77; | 0; | 27333 | |
| 9; | 3446.7; | 23-MAY-2007 | 14:31:10; | Bright; | 32.0; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 64; | 0; | 27333 | |
| 10; | 3937.4; | 23-MAY-2007 | 14:39:21; | Bright; | 41.0; | 76; | 27Gam Cas | ; | 2.30; | 30000;occ; | 82; | 0; | 27333 | |
| 11; | 4009.6; | 23-MAY-2007 | 14:40:33; | Bright; | 37.0; | 68; | 18Alp Cas | ; | 2.22; | 4500;occ; | 74; | 0; | 27333 | |
| 12; | 4532.4; | 23-MAY-2007 | 14:49:16; | Dark | ; | 58; | 21Alp And | ; | 2.07; | 11000;occ; | 90; | 0; | 27333 | |
| 13; | 4798.2; | 23-MAY-2007 | 14:53:41; | Dark | ; | 140; | 88Gam Peg | ; | 2.83; | 26000;occ; | 91; | 0; | 27333 | |
| 14; | 5326.7; | 23-MAY-2007 | 15:02:30; | Dark | ; | 52; | 16Bet Cet | ; | 2.04; | 4500;occ; | 85; | 0; | 27333 | |
| 15; | 5849.1; | 23-MAY-2007 | 15:11:12; | Dark | ; | 0; | | ; | 0.00; | 0;occ; | 119; | 0; | 27333 | |
| 16; | 6012.4; | 23-MAY-2007 | 15:13:56; | Dark | ; | 63; | Bet Gru | ; | 2.15; | 2800;occ; | 110; | 0; | 27333 | |
| 17; | 6112.6; | 23-MAY-2007 | 15:15:36; | Dark | ; | 31; | Alp Gru | ; | 1.73; | 15200;occ; | 89; | 0; | 27333 | |
| 18; | 6436.1; | 23-MAY-2007 | 15:20:59; | Dark | ; | 45; | Alp Pav | ; | 1.94; | 26000;occ; | 84; | 0; | 27333 | |
| 19; | 6844.0; | 23-MAY-2007 | 15:27:47; | Dark | ; | 141; | Bet Ara | ; | 2.84; | 4600;occ; | 85; | 0; | 27333 | |
| 20; | 7009.9; | 23-MAY-2007 | 15:30:33; | Dark | ; | 40; | The Sco | ; | 1.86; | 7100;occ; | 107; | 0; | 27333 | |
| 21; | 7122.7; | 23-MAY-2007 | 15:32:26; | Dark | ; | 115; | 34Ups Sco | ; | 2.70; | 26000;occ; | 52; | 0; | 27333 | |
| 22; | 7244.0; | 23-MAY-2007 | 15:34:27; | Dark | ; | 75; | 26Eps Sco | ; | 2.29; | 4250;occ; | 98; | 0; | 27333 | |
| 23; | 7416.1; | 23-MAY-2007 | 15:37:19; | Dark | ; | 3.0; | 16; | 21Alp Sco | ; | 1.02; | 3000;occ; | 6; | 0; | 27333 |

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| 2; | 1524.4; | 23-MAY-2007 | 15:39:44; | Bright; | 40.5; | 97; | 8Bet1Sco | ; | 2.56; | 30000;occ; | 81; | 0; | 27334 | |
| 3; | 1631.7; | 23-MAY-2007 | 15:41:31; | Bright; | 34.5; | 122; | 9Alp2Lib | ; | 2.75; | 9700;occ; | 69; | 0; | 27334 | |
| 4; | 1734.2; | 23-MAY-2007 | 15:43:13; | Bright; | 36.5; | 104; | 27Bet Lib | ; | 2.61; | 13100;occ; | 73; | 0; | 27334 | |
| 5; | 2025.7; | 23-MAY-2007 | 15:48:05; | Bright; | 39.5; | 102; | 24Alp Ser | ; | 2.60; | 4250;occ; | 79; | 0; | 27334 | |
| 6; | 2370.7; | 23-MAY-2007 | 15:53:50; | Bright; | 36.0; | 83; | | ; | 2.38; | 11000;occ; | 72; | 0; | 27334 | |
| 7; | 2560.7; | 23-MAY-2007 | 15:57:00; | Bright; | 35.0; | 180; | 27Gam Boo | ; | 3.04; | 8000;occ; | 70; | 0; | 27334 | |
| 8; | 3047.9; | 23-MAY-2007 | 16:05:07; | Bright; | 40.0; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ; | 80; | 0; | 27334 | |
| 9; | 3173.0; | 23-MAY-2007 | 16:07:12; | Bright; | 37.5; | 60; | 7Bet UMi | ; | 2.08; | 3950;occ; | 75; | 0; | 27334 | |
| 10; | 3446.7; | 23-MAY-2007 | 16:11:46; | Bright; | 35.5; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 71; | 0; | 27334 | |
| 11; | 3937.3; | 23-MAY-2007 | 16:19:57; | Bright; | 37.0; | 76; | 27Gam Cas | ; | 2.30; | 30000;occ; | 74; | 0; | 27334 | |
| 12; | 4009.8; | 23-MAY-2007 | 16:21:09; | Bright; | 55.0; | 68; | 18Alp Cas | ; | 2.22; | 4500;occ; | 110; | 0; | 27334 | |
| 13; | 4532.4; | 23-MAY-2007 | 16:29:52; | Dark | ; | 58; | 21Alp And | ; | 2.07; | 11000;occ; | 91; | 0; | 27334 | |
| 14; | 4798.6; | 23-MAY-2007 | 16:34:18; | Dark | ; | 140; | 88Gam Peg | ; | 2.83; | 26000;occ; | 91; | 0; | 27334 | |
| 15; | 5327.0; | 23-MAY-2007 | 16:43:06; | Dark | ; | 52; | 16Bet Cet | ; | 2.04; | 4500;occ; | 86; | 0; | 27334 | |
| 16; | 5849.7; | 23-MAY-2007 | 16:51:49; | Dark | ; | 0; | | ; | 0.00; | 0;occ; | 119; | 0; | 27334 | |
| 17; | 6013.2; | 23-MAY-2007 | 16:54:32; | Dark | ; | 63; | Bet Gru | ; | 2.15; | 2800;occ; | 99; | 0; | 27334 | |
| 18; | 6113.5; | 23-MAY-2007 | 16:56:13; | Dark | ; | 31; | Alp Gru | ; | 1.73; | 15200;occ; | 90; | 0; | 27334 | |
| 19; | 6436.8; | 23-MAY-2007 | 17:01:36; | Dark | ; | 45; | Alp Pav | ; | 1.94; | 26000;occ; | 84; | 0; | 27334 | |
| 20; | 6844.6; | 23-MAY-2007 | 17:08:24; | Dark | ; | 141; | Bet Ara | ; | 2.84; | 4600;occ; | 79; | 0; | 27334 | |
| 21; | 7010.5; | 23-MAY-2007 | 17:11:10; | Dark | ; | 40; | The Sco | ; | 1.86; | 7100;occ; | 102; | 0; | 27334 | |

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3; 1380.4; 23-MAY-2007 17:17:56; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;27335
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5; 1640.1; 23-MAY-2007 17:22:15; Bright; 26.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 53; 0;27335
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13; 3937.1; 23-MAY-2007 18:00:32; Bright; 34.0; 76; 27Gam Cas ; 2.30; 30000;occ; 68; 0;27335
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17; 5327.4; 23-MAY-2007 18:23:43; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;27335
18; 5850.2; 23-MAY-2007 18:32:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27335
19; 6013.9; 23-MAY-2007 18:35:09; Dark ; 59.0; 63; Bet Gru ; 2.15; 2800;occ; 118; 0;27335
20; 6114.3; 23-MAY-2007 18:36:50; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;27335
21; 6437.5; 23-MAY-2007 18:42:13; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27335
22; 6845.0; 23-MAY-2007 18:49:00; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27335
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 15; 6103.7; 31-MAY-2007 16:04:19; Dark ; 57.0; 63; Bet Gru ; 2.15; 2800;occ; 114; 0;27448
 16; 6215.1; 31-MAY-2007 16:06:11; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27448
 17; 6516.5; 31-MAY-2007 16:11:12; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27448
 18; 6891.8; 31-MAY-2007 16:17:27; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27448
 19; 6966.5; 31-MAY-2007 16:18:42; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;27448
 20; 7067.4; 31-MAY-2007 16:20:23; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;27448
 21; 7175.6; 31-MAY-2007 16:22:11; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;27448

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1; 1139.6; 31-MAY-2007 16:22:11; Dark ; 48.5; 25; 35Lam Sco ; 1.62; 28000;occ; 97; 0;27449
 2; 1247.4; 31-MAY-2007 16:23:59; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;27449
 3; 1370.2; 31-MAY-2007 16:26:02; Dark ; 42.0; 136; 23Tau Sco ; 2.82; 30000;occ; 84; 0;27449
 4; 1542.4; 31-MAY-2007 16:28:54; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27449
 5; 1702.4; 31-MAY-2007 16:31:34; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27449
 6; 1834.4; 31-MAY-2007 16:33:46; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27449
 7; 2015.4; 31-MAY-2007 16:36:47; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27449
 8; 2370.7; 31-MAY-2007 16:42:42; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27449
 9; 3008.2; 31-MAY-2007 16:53:20; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27449
 10; 3166.4; 31-MAY-2007 16:55:58; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27449
 11; 3446.9; 31-MAY-2007 17:00:39; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27449
 12; 3930.6; 31-MAY-2007 17:08:42; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;27449
 13; 4393.4; 31-MAY-2007 17:16:25; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;27449
 14; 5385.8; 31-MAY-2007 17:32:57; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;27449
 15; 5646.7; 31-MAY-2007 17:37:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27449
 16; 5788.4; 31-MAY-2007 17:39:40; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;27449
 17; 6104.5; 31-MAY-2007 17:44:56; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;27449
 18; 6216.1; 31-MAY-2007 17:46:48; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27449
 19; 6517.2; 31-MAY-2007 17:51:49; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27449
 20; 6892.2; 31-MAY-2007 17:58:04; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27449
 21; 6966.8; 31-MAY-2007 17:59:18; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27449
 22; 7067.9; 31-MAY-2007 18:00:59; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;27449

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1; 1031.8; 31-MAY-2007 18:00:59; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;27450
 2; 1139.9; 31-MAY-2007 18:02:48; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;27450
 3; 1247.7; 31-MAY-2007 18:04:35; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27450
 4; 1370.5; 31-MAY-2007 18:06:38; Dark ; 41.5; 136; 23Tau Sco ; 2.82; 30000;occ; 83; 0;27450
 5; 1542.6; 31-MAY-2007 18:09:30; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27450
 6; 1702.4; 31-MAY-2007 18:12:10; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;27450

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|-----|---------|-------------|-----------|---------|-------|-------|-----------|-----------|-------|------------|------------|---------|---------|
| 7; | 1834.2; | 31-MAY-2007 | 18:14:22; | Bright; | 39.5; | 120; | 1Del Oph | ; | 2.73; | 3200;occ; | 79; | 0;27450 | |
| 8; | 2015.3; | 31-MAY-2007 | 18:17:23; | Bright; | 36.5; | 102; | 24Alp Ser | ; | 2.60; | 4250;occ; | 73; | 0;27450 | |
| 9; | 2370.5; | 31-MAY-2007 | 18:23:18; | Bright; | 37.0; | 67; | 5Alp CrB | ; | 2.22; | 11000;occ; | 74; | 0;27450 | |
| 10; | 3007.9; | 31-MAY-2007 | 18:33:56; | Bright; | 40.0; | 119; | 14Eta Dra | ; | 2.73; | 4700;occ; | 80; | 0;27450 | |
| 11; | 3166.3; | 31-MAY-2007 | 18:36:34; | Bright; | 35.5; | 60; | 7Bet UMi | ; | 2.08; | 3950;occ; | 71; | 0;27450 | |
| 12; | 3446.8; | 31-MAY-2007 | 18:41:14; | Bright; | 36.0; | 49; | 1Alp UMi | ; | 1.99; | 6300;occ; | 72; | 0;27450 | |
| 13; | 3930.1; | 31-MAY-2007 | 18:49:18; | Bright; | 37.5; | 76; | 27Gam Cas | ; | 2.30; | 30000;occ; | 75; | 0;27450 | |
| 14; | 4393.3; | 31-MAY-2007 | 18:57:01; | Bright; | 44.5; | 53; | 43Bet And | ; | 2.05; | 3300;occ; | 89; | 0;27450 | |
| 15; | 5386.3; | 31-MAY-2007 | 19:13:34; | Dark | ; | 46.5; | 52; | 16Bet Cet | ; | 2.04; | 4500;occ; | 93; | 0;27450 |
| 16; | 5647.2; | 31-MAY-2007 | 19:17:55; | Dark | ; | 59.5; | 0; | | ; | 0.00; | 0;occ; | 119; | 0;27450 |
| 17; | 5788.9; | 31-MAY-2007 | 19:20:17; | Dark | ; | 47.5; | 84; | Alp Phe | ; | 2.40; | 4500;occ; | 95; | 0;27450 |
| 18; | 6105.3; | 31-MAY-2007 | 19:25:33; | Dark | ; | 51.5; | 63; | Bet Gru | ; | 2.15; | 2800;occ; | 103; | 0;27450 |
| 19; | 6216.9; | 31-MAY-2007 | 19:27:25; | Dark | ; | 44.5; | 31; | Alp Gru | ; | 1.73; | 15200;occ; | 89; | 0;27450 |
| 20; | 6517.8; | 31-MAY-2007 | 19:32:25; | Dark | ; | 41.5; | 45; | Alp Pav | ; | 1.94; | 26000;occ; | 83; | 0;27450 |
| 21; | 6892.5; | 31-MAY-2007 | 19:38:40; | Dark | ; | 38.5; | 141; | Bet Ara | ; | 2.84; | 4600;occ; | 77; | 0;27450 |
| 22; | 6967.1; | 31-MAY-2007 | 19:39:55; | Dark | ; | 38.5; | 147; | Alp Ara | ; | 2.88; | 26000;occ; | 77; | 0;27450 |