

# GOMOS Daily Report 16-JUL-2009

## 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 | 19JUL2009 04:43:41 |
| Data source version       | GOMOS/5.00         |
| Start time of products    | 16JUL2009 00:04:18 |
| Stop time of products     | 16JUL2009 23:50:33 |
| Store outputs in DB       | Yes                |
| Nb of level 1b prods      | 86                 |
| Nb of prods with errors   | 2                  |

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

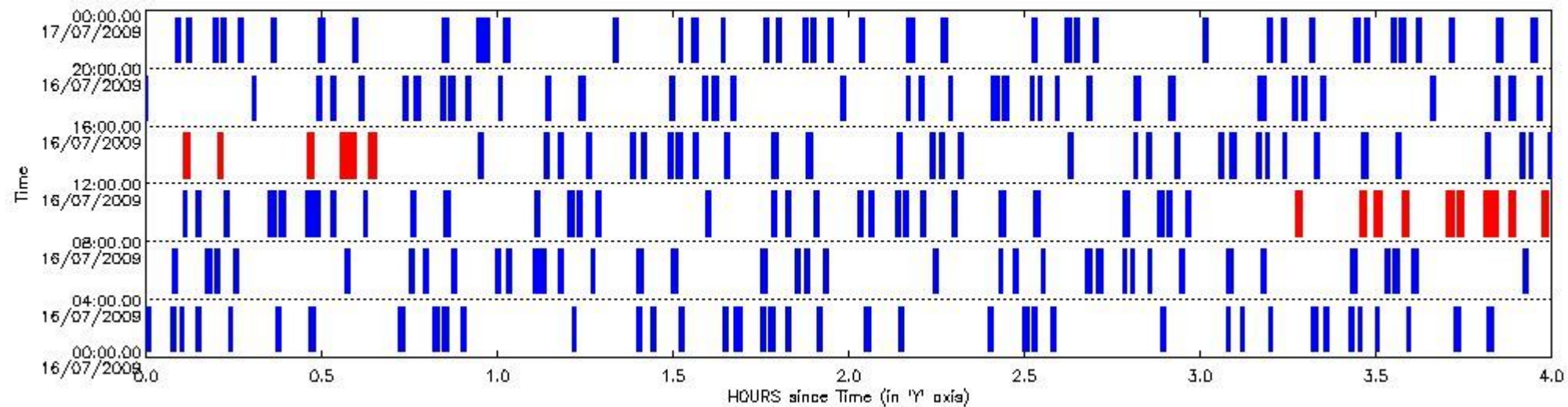
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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 |
|----------------------|-----------|---------|-------|
| 16-JUL-2009 11:16:12 | 53AlpAql  | 11      | 38568 |
| 16-JUL-2009 11:27:22 | 18DelCyg  | 144     | 38568 |
| 16-JUL-2009 11:29:40 | 50AlpCyg  | 19      | 38568 |
| 16-JUL-2009 11:34:33 | 5AlpCep   | 89      | 38568 |
| 16-JUL-2009 11:41:59 | 11BetCas  | 74      | 38568 |
| 16-JUL-2009 11:43:55 | 18AlpCas  | 68      | 38568 |
| 16-JUL-2009 11:48:27 | 23GamPer  | 160     | 38568 |
| 16-JUL-2009 11:49:49 | 33AlpPer  | 35      | 38568 |
| 16-JUL-2009 11:52:46 | 26BetPer  | 79      | 38568 |
| 16-JUL-2009 11:58:15 | 25EtaTau  | 146     | 38568 |
| 16-JUL-2009 12:06:16 | 92AlpCet  | 94      | 38568 |
| 16-JUL-2009 12:12:05 | DSA1064   | 0       | 38568 |
| 16-JUL-2009 12:27:28 | AlpPhe    | 84      | 38569 |
| 16-JUL-2009 12:33:13 | BetGru    | 63      | 38569 |
| 16-JUL-2009 12:34:48 | AlpGru    | 31      | 38569 |

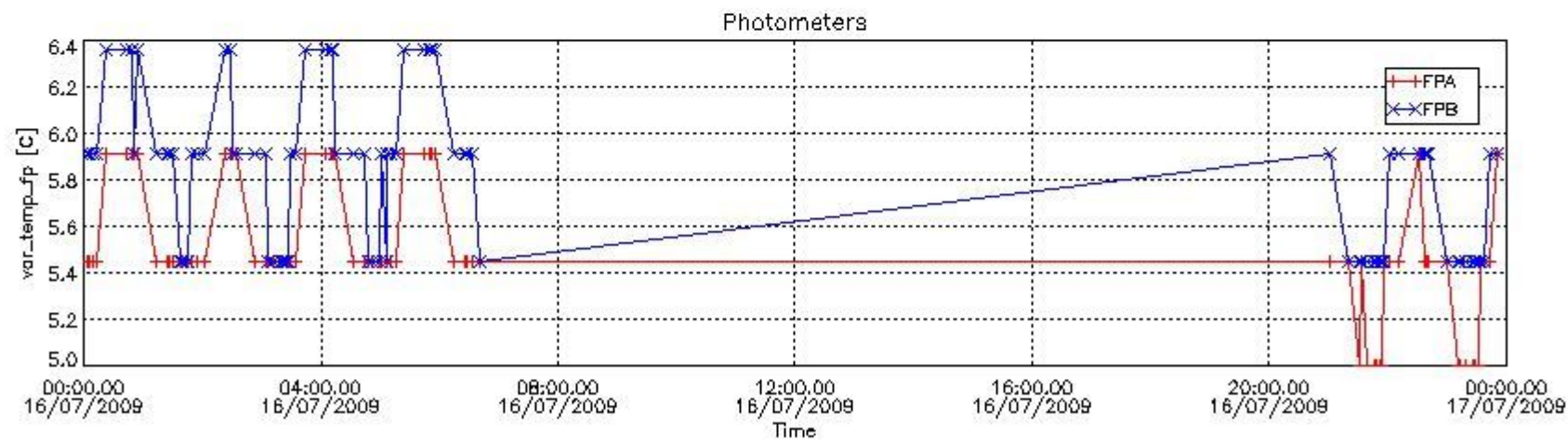
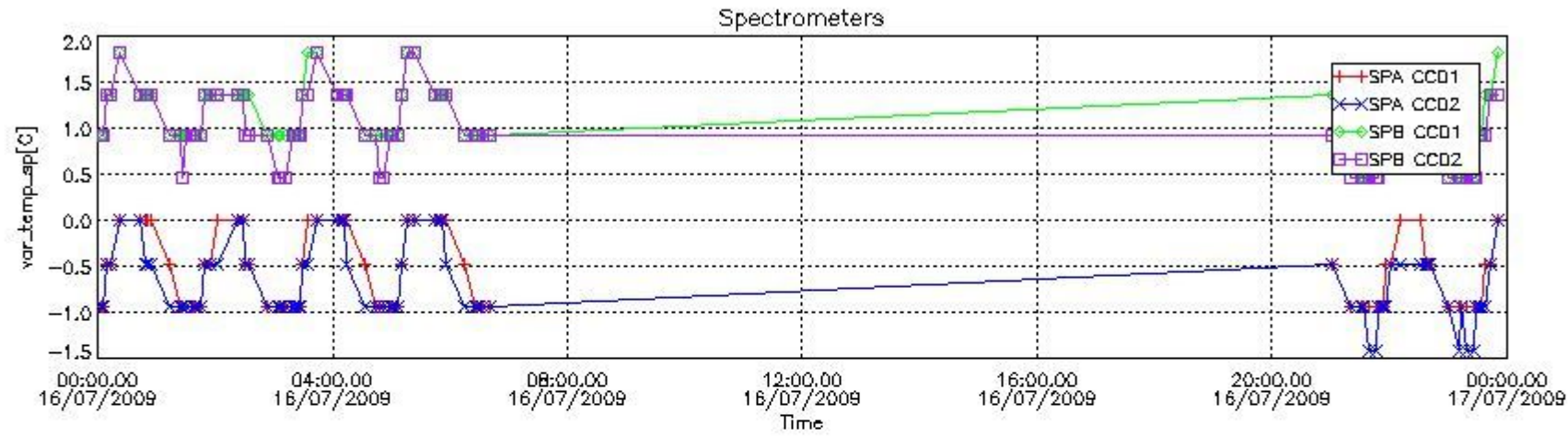
## 2.4 Summary of processed GOM\_TRA\_1P products

| Nr | Filename   | UTC Start time       | Limb       | Duration | Star Id | Star Name | Star Mag | Star Temp | Nb Meas | Orbit | Prod. error |
|----|--|----------------------|------------|----------|---------|-----------|----------|-----------|---------|-------|-------------|
| 1  | GOM_TRA_1PNPDE20090716_000418_000000412080_00431_38561_9257.N1 | 16-JUL-2009 00:04:18 | Bright     | 41.000   | 160     | 23Gam Per | 2.9300   | 4700.0    | 82      | 38561 | No          |
| 2  | GOM_TRA_1PNPDE20090716_000539_000000412080_00431_38561_9258.N1 | 16-JUL-2009 00:05:39 | Bright     | 41.000   | 35      | 33Alp Per | 1.7950   | 6250.0    | 82      | 38561 | No          |
| 3  | GOM_TRA_1PNPDE20090716_000835_000000442080_00431_38561_9259.N1 | 16-JUL-2009 00:08:35 | Bright     | 44.000   | 79      | 26Bet Per | 2.3100   | 13100.    | 88      | 38561 | No          |
| 4  | GOM_TRA_1PNPDE20090716_001403_000000402080_00431_38561_9260.N1 | 16-JUL-2009 00:14:03 | Twilight   | 40.000   | 146     | 25Eta Tau | 2.8730   | 15200.    | 80      | 38561 | No          |
| 5  | GOM_TRA_1PNPDE20090716_002159_000000592080_00431_38561_9261.N1 | 16-JUL-2009 00:21:59 | Dark       | 58.500   | 94      | 92Alp Cet | 2.5260   | 3100.0    | 117     | 38561 | No          |
| 6  | GOM_TRA_1PNPDE20090716_004309_000000552080_00432_38562_9395.N1 | 16-JUL-2009 00:43:09 | Dark       | 54.500   | 84      | Alp Phe   | 2.3970   | 4500.0    | 109     | 38562 | No          |
| 7  | GOM_TRA_1PNPDE20090716_004856_000000652080_00432_38562_9396.N1 | 16-JUL-2009 00:48:56 | Straylight | 64.500   | 63      | Bet Gru   | 2.1500   | 2800.0    | 129     | 38562 | No          |
| 8  | GOM_TRA_1PNPDE20090716_005032_000000572080_00432_38562_9397.N1 | 16-JUL-2009 00:50:32 | Straylight | 57.000   | 31      | Alp Gru   | 1.7340   | 15200.    | 114     | 38562 | No          |
| 9  | GOM_TRA_1PNPDE20090716_005345_000000552080_00432_38562_9398.N1 | 16-JUL-2009 00:53:45 | Straylight | 54.500   | 172     | Gam Gru   | 3.0030   | 13100.    | 109     | 38562 | No          |
| 10 | GOM_TRA_1PNPDE20090716_011239_000000462080_00432_38562_9399.N1 | 16-JUL-2009 01:12:39 | Bright     | 45.500   | 11      | 53Alp Aql | 0.76500  | 8000.0    | 91      | 38562 | No          |
| 11 | GOM_TRA_1PNPDE20090716_012350_000000402080_00432_38562_9400.N1 | 16-JUL-2009 01:23:50 | Bright     | 39.500   | 144     | 18Del Cyg | 2.8600   | 11000.    | 79      | 38562 | No          |
| 12 | GOM_TRA_1PNPDE20090716_012610_000000502080_00432_38562_9401.N1 | 16-JUL-2009 01:26:10 | Bright     | 49.500   | 19      | 50Alp Cyg | 1.2460   | 10500.    | 99      | 38562 | No          |
| 13 | GOM_TRA_1PNPDE20090716_013102_000000412080_00432_38562_9402.N1 | 16-JUL-2009 01:31:02 | Bright     | 41.000   | 89      | 5Alp Cep  | 2.4510   | 8000.0    | 82      | 38562 | No          |
| 14 | GOM_TRA_1PNPDE20090716_013828_000000502080_00432_38562_9403.N1 | 16-JUL-2009 01:38:28 | Bright     | 49.500   | 74      | 11Bet Cas | 2.2680   | 6600.0    | 99      | 38562 | No          |
| 15 | GOM_TRA_1PNPDE20090716_014024_000000702080_00432_38562_9404.N1 | 16-JUL-2009 01:40:24 | Bright     | 70.000   | 68      | 18Alp Cas | 2.2250   | 4500.0    | 140     | 38562 | No          |
| 16 | GOM_TRA_1PNPDE20090716_014453_000000552080_00432_38562_9405.N1 | 16-JUL-2009 01:44:53 | Bright     | 55.000   | 160     | 23Gam Per | 2.9300   | 4700.0    | 110     | 38562 | No          |
| 17 | GOM_TRA_1PNPDE20090716_014614_000000602080_00432_38562_9406.N1 | 16-JUL-2009 01:46:14 | Bright     | 60.000   | 35      | 33Alp Per | 1.7950   | 6250.0    | 120     | 38562 | No          |
| 18 | GOM_TRA_1PNPDE20090716_014911_000000472080_00432_38562_9407.N1 | 16-JUL-2009 01:49:11 | Bright     | 47.000   | 79      | 26Bet Per | 2.3100   | 13100.    | 94      | 38562 | No          |
| 19 | GOM_TRA_1PNPDE20090716_015439_000000422080_00432_38562_9408.N1 | 16-JUL-2009 01:54:39 | Twilight   | 42.000   | 146     | 25Eta Tau | 2.8730   | 15200.    | 84      | 38562 | No          |
| 20 | GOM_TRA_1PNPDE20090716_020236_000000632080_00432_38562_9531.N1 | 16-JUL-2009 02:02:36 | Dark       | 63.000   | 94      | 92Alp Cet | 2.5260   | 3100.0    | 126     | 38562 | Yes         |
| 21 | GOM_TRA_1PNPDE20090716_022346_000000532080_00433_38563_9532.N1 | 16-JUL-2009 02:23:46 | Dark       | 53.000   | 84      | Alp Phe   | 2.3970   | 4500.0    | 106     | 38563 | No          |
| 22 | GOM_TRA_1PNPDE20090716_022933_000000642080_00433_38563_9533.N1 | 16-JUL-2009 02:29:33 | Straylight | 64.000   | 63      | Bet Gru   | 2.1500   | 2800.0    | 128     | 38563 | No          |
| 23 | GOM_TRA_1PNPDE20090716_023109_000000512080_00433_38563_9534.N1 | 16-JUL-2009 02:31:09 | Straylight | 50.500   | 31      | Alp Gru   | 1.7340   | 15200.    | 101     | 38563 | No          |
| 24 | GOM_TRA_1PNPDE20090716_023422_000000542080_00433_38563_9535.N1 | 16-JUL-2009 02:34:22 | Straylight | 54.000   | 172     | Gam Gru   | 3.0030   | 13100.    | 108     | 38563 | No          |
| 25 | GOM_TRA_1PNPDE20090716_025314_000000472080_00433_38563_9536.N1 | 16-JUL-2009 02:53:14 | Bright     | 47.000   | 11      | 53Alp Aql | 0.76500  | 8000.0    | 94      | 38563 | No          |
| 26 | GOM_TRA_1PNPDE20090716_030425_000000422080_00433_38563_9537.N1 | 16-JUL-2009 03:04:25 | Bright     | 41.500   | 144     | 18Del Cyg | 2.8600   | 11000.    | 83      | 38563 | No          |
| 27 | GOM_TRA_1PNPDE20090716_030645_000000472080_00433_38563_9538.N1 | 16-JUL-2009 03:06:45 | Bright     | 47.000   | 19      | 50Alp Cyg | 1.2460   | 10500.    | 94      | 38563 | No          |
| 28 | GOM_TRA_1PNPDE20090716_031137_000000442080_00433_38563_9539.N1 | 16-JUL-2009 03:11:37 | Bright     | 44.000   | 89      | 5Alp Cep  | 2.4510   | 8000.0    | 88      | 38563 | No          |
| 29 | GOM_TRA_1PNPDE20090716_031903_000000502080_00433_38563_9540.N1 | 16-JUL-2009 03:19:03 | Bright     | 49.500   | 74      | 11Bet Cas | 2.2680   | 6600.0    | 99      | 38563 | No          |
| 30 | GOM_TRA_1PNPDE20090716_032059_000000552080_00433_38563_9541.N1 | 16-JUL-2009 03:20:59 | Bright     | 54.500   | 68      | 18Alp Cas | 2.2250   | 4500.0    | 109     | 38563 | No          |
| 31 | GOM_TRA_1PNPDE20090716_032529_000000402080_00433_38563_9693.N1 | 16-JUL-2009 03:25:29 | Bright     | 40.000   | 160     | 23Gam Per | 2.9300   | 4700.0    | 80      | 38563 | No          |
| 32 | GOM_TRA_1PNPDE20090716_032650_000000442080_00433_38563_9694.N1 | 16-JUL-2009 03:26:50 | Bright     | 44.000   | 35      | 33Alp Per | 1.7950   | 6250.0    | 88      | 38563 | No          |
| 33 | GOM_TRA_1PNPDE20090716_032947_000000442080_00433_38563_9695.N1 | 16-JUL-2009 03:29:47 | Bright     | 43.500   | 79      | 26Bet Per | 2.3100   | 13100.    | 87      | 38563 | No          |
| 34 | GOM_TRA_1PNPDE20090716_033515_000000392080_00433_38563_9696.N1 | 16-JUL-2009 03:35:15 | Twilight   | 39.000   | 146     | 25Eta Tau | 2.8730   | 15200.    | 78      | 38563 | No          |
| 35 | GOM_TRA_1PNPDE20090716_034313_000000642080_00433_38563_9697.N1 | 16-JUL-2009 03:43:13 | Dark       | 63.500   | 94      | 92Alp Cet | 2.5260   | 3100.0    | 127     | 38563 | No          |
| 36 | GOM_TRA_1PNPDE20090716_040423_000000532080_00434_38564_9698.N1 | 16-JUL-2009 04:04:23 | Dark       | 53.000   | 84      | Alp Phe   | 2.3970   | 4500.0    | 106     | 38564 | No          |
| 37 | GOM_TRA_1PNPDE20090716_041009_000000542080_00434_38564_9699.N1 | 16-JUL-2009 04:10:09 | Straylight | 54.000   | 63      | Bet Gru   | 2.1500   | 2800.0    | 108     | 38564 | No          |
| 38 | GOM_TRA_1PNPDE20090716_041146_000000482080_00434_38564_9700.N1 | 16-JUL-2009 04:11:46 | Straylight | 47.500   | 31      | Alp Gru   | 1.7340   | 15200.    | 95      | 38564 | No          |
| 39 | GOM_TRA_1PNPDE20090716_041458_000000522080_00434_38564_9701.N1 | 16-JUL-2009 04:14:58 | Straylight | 51.500   | 172     | Gam Gru   | 3.0030   | 13100.    | 103     | 38564 | No          |
| 40 | GOM_TRA_1PNPDE20090716_043350_000000472080_00434_38564_9702.N1 | 16-JUL-2009 04:33:50 | Bright     | 46.500   | 11      | 53Alp Aql | 0.76500  | 8000.0    | 93      | 38564 | No          |
| 41 | GOM_TRA_1PNPDE20090716_044501_000000422080_00434_38564_9703.N1 | 16-JUL-2009 04:45:01 | Bright     | 42.000   | 144     | 18Del Cyg | 2.8600   | 11000.    | 84      | 38564 | No          |
| 42 | GOM_TRA_1PNPDE20090716_044720_000000482080_00434_38564_9704.N1 | 16-JUL-2009 04:47:20 | Bright     | 48.000   | 19      | 50Alp Cyg | 1.2460   | 10500.    | 96      | 38564 | No          |
| 43 | GOM_TRA_1PNPDE20090716_045212_000000442080_00434_38564_9705.N1 | 16-JUL-2009 04:52:12 | Bright     | 44.000   | 89      | 5Alp Cep  | 2.4510   | 8000.0    | 88      | 38564 | No          |
| 44 | GOM_TRA_1PNPDE20090716_045938_000000502080_00434_38564_9875.N1 | 16-JUL-2009 04:59:38 | Bright     | 49.500   | 74      | 11Bet Cas | 2.2680   | 6600.0    | 99      | 38564 | No          |
| 45 | GOM_TRA_1PNPDE20090716_050134_000000522080_00434_38564_9876.N1 | 16-JUL-2009 05:01:34 | Bright     | 51.500   | 68      | 18Alp Cas | 2.2250   | 4500.0    | 103     | 38564 | No          |
| 46 | GOM_TRA_1PNPDE20090716_050605_000000612080_00434_38564_9877.N1 | 16-JUL-2009 05:06:05 | Bright     | 61.000   | 160     | 23Gam Per | 2.9300   | 4700.0    | 122     | 38564 | No          |
| 47 | GOM_TRA_1PNPDE20090716_050726_000000492080_00434_38564_9878.N1 | 16-JUL-2009 05:07:26 | Bright     | 48.500   | 35      | 33Alp Per | 1.7950   | 6250.0    | 97      | 38564 | No          |
| 48 | GOM_TRA_1PNPDE20090716_051023_000000432080_00434_38564_9879.N1 | 16-JUL-2009 05:10:23 | Bright     | 43.000   | 79      | 26Bet Per | 2.3100   | 13100.    | 86      | 38564 | No          |
| 49 | GOM_TRA_1PNPDE20090716_051551_000000412080_00434_38564_9880.N1 | 16-JUL-2009 05:15:51 | Twilight   | 40.500   | 146     | 25Eta Tau | 2.8730   | 15200.    | 81      | 38564 | No          |
| 50 | GOM_TRA_1PNPDE20090716_052349_000000612080_00434_38564_9881.N1 | 16-JUL-2009 05:23:49 | Dark       | 60.500   | 94      | 92Alp Cet | 2.5260   | 3100.0    | 121     | 38564 | No          |
| 51 | GOM_TRA_1PNPDE20090716_054500_000000562080_00435_38565_9882.N1 | 16-JUL-2009 05:45:00 | Dark       | 55.500   | 84      | Alp Phe   | 2.3970   | 4500.0    | 111     | 38565 | No          |
| 52 | GOM_TRA_1PNPDE20090716_055047_000000532080_00435_38565_9883.N1 | 16-JUL-2009 05:50:47 | Straylight | 53.000   | 63      | Bet Gru   | 2.1500   | 2800.0    | 106     | 38565 | No          |
| 53 | GOM_TRA_1PNPDE20090716_055222_000000472080_00435_38565_9884.N1 | 16-JUL-2009 05:52:22 | Straylight | 47.000   | 31      | Alp Gru   | 1.7340   | 15200.    | 94      | 38565 | No          |

|    |  |                      |            |        |     |           |         |        |     |       |     |
|----|--|----------------------|------------|--------|-----|-----------|---------|--------|-----|-------|-----|
| 54 | GOM_TRA_1PNPDE20090716_055535_000000552080_00435_38565_9885.N1 | 16-JUL-2009 05:55:35 | Straylight | 55.000 | 172 | Gam Gru   | 3.0030  | 13100. | 110 | 38565 | No  |
| 55 | GOM_TRA_1PNPDE20090716_061426_000000472080_00435_38565_9886.N1 | 16-JUL-2009 06:14:26 | Bright     | 47.000 | 11  | 53Alp Aql | 0.76500 | 8000.0 | 94  | 38565 | No  |
| 56 | GOM_TRA_1PNPDE20090716_062536_000000412080_00435_38565_9887.N1 | 16-JUL-2009 06:25:36 | Bright     | 41.000 | 144 | 18Del Cyg | 2.8600  | 11000. | 82  | 38565 | No  |
| 57 | GOM_TRA_1PNPDE20090716_062756_000000492080_00435_38565_9888.N1 | 16-JUL-2009 06:27:56 | Bright     | 49.000 | 19  | 50Alp Cyg | 1.2460  | 10500. | 98  | 38565 | No  |
| 58 | GOM_TRA_1PNPDE20090716_063248_000000412080_00435_38565_9889.N1 | 16-JUL-2009 06:32:48 | Bright     | 41.000 | 89  | 5Alp Cep  | 2.4510  | 8000.0 | 82  | 38565 | No  |
| 59 | GOM_TRA_1PNPDE20090716_064014_000000432080_00435_38565_9890.N1 | 16-JUL-2009 06:40:14 | Bright     | 42.500 | 74  | 11Bet Cas | 2.2680  | 6600.0 | 85  | 38565 | No  |
| 60 | GOM_TRA_1PNPDE20090716_210105_000000512080_00444_38574_0367.N1 | 16-JUL-2009 21:01:05 | Straylight | 51.000 | 172 | Gam Gru   | 3.0030  | 13100. | 102 | 38574 | No  |
| 61 | GOM_TRA_1PNPDE20090716_211946_000000452080_00444_38574_0368.N1 | 16-JUL-2009 21:19:46 | Bright     | 44.500 | 11  | 53Alp Aql | 0.76500 | 8000.0 | 89  | 38574 | No  |
| 62 | GOM_TRA_1PNPDE20090716_213055_000000422080_00444_38574_0369.N1 | 16-JUL-2009 21:30:55 | Bright     | 42.000 | 144 | 18Del Cyg | 2.8600  | 11000. | 84  | 38574 | No  |
| 63 | GOM_TRA_1PNPDE20090716_213311_000000522080_00444_38574_0370.N1 | 16-JUL-2009 21:33:11 | Bright     | 52.000 | 19  | 50Alp Cyg | 1.2460  | 10500. | 104 | 38574 | No  |
| 64 | GOM_TRA_1PNPDE20090716_213806_000000442080_00444_38574_0371.N1 | 16-JUL-2009 21:38:06 | Bright     | 43.500 | 89  | 5Alp Cep  | 2.4510  | 8000.0 | 87  | 38574 | No  |
| 65 | GOM_TRA_1PNPDE20090716_214531_000000522080_00444_38574_0372.N1 | 16-JUL-2009 21:45:31 | Bright     | 51.500 | 74  | 11Bet Cas | 2.2680  | 6600.0 | 103 | 38574 | No  |
| 66 | GOM_TRA_1PNPDE20090716_214727_000000542080_00444_38574_0373.N1 | 16-JUL-2009 21:47:27 | Bright     | 53.500 | 68  | 18Alp Cas | 2.2250  | 4500.0 | 107 | 38574 | No  |
| 67 | GOM_TRA_1PNPDE20090716_215203_000000512080_00444_38574_0374.N1 | 16-JUL-2009 21:52:03 | Bright     | 50.500 | 160 | 23Gam Per | 2.9300  | 4700.0 | 101 | 38574 | No  |
| 68 | GOM_TRA_1PNPDE20090716_215325_000000512080_00444_38574_0375.N1 | 16-JUL-2009 21:53:25 | Bright     | 51.000 | 35  | 33Alp Per | 1.7950  | 6250.0 | 102 | 38574 | No  |
| 69 | GOM_TRA_1PNPDE20090716_215622_000000462080_00444_38574_0376.N1 | 16-JUL-2009 21:56:22 | Bright     | 45.500 | 79  | 26Bet Per | 2.3100  | 13100. | 91  | 38574 | No  |
| 70 | GOM_TRA_1PNPDE20090716_220153_000000432080_00444_38574_0377.N1 | 16-JUL-2009 22:01:53 | Twilight   | 43.000 | 146 | 25Eta Tau | 2.8730  | 15200. | 86  | 38574 | No  |
| 71 | GOM_TRA_1PNPDE20090716_220957_000000712080_00444_38574_0510.N1 | 16-JUL-2009 22:09:57 | Dark       | 70.500 | 94  | 92Alp Cet | 2.5260  | 3100.0 | 141 | 38574 | Yes |
| 72 | GOM_TRA_1PNPDE20090716_223111_000000542080_00445_38575_0511.N1 | 16-JUL-2009 22:31:11 | Dark       | 53.500 | 84  | Alp Phe   | 2.3970  | 4500.0 | 107 | 38575 | No  |
| 73 | GOM_TRA_1PNPDE20090716_223654_000000632080_00445_38575_0512.N1 | 16-JUL-2009 22:36:54 | Straylight | 62.500 | 63  | Bet Gru   | 2.1500  | 2800.0 | 125 | 38575 | No  |
| 74 | GOM_TRA_1PNPDE20090716_223829_000000572080_00445_38575_0513.N1 | 16-JUL-2009 22:38:29 | Straylight | 56.500 | 31  | Alp Gru   | 1.7340  | 15200. | 113 | 38575 | No  |
| 75 | GOM_TRA_1PNPDE20090716_224142_000000492080_00445_38575_0514.N1 | 16-JUL-2009 22:41:42 | Straylight | 49.000 | 172 | Gam Gru   | 3.0030  | 13100. | 98  | 38575 | No  |
| 76 | GOM_TRA_1PNPDE20090716_230022_000000472080_00445_38575_0515.N1 | 16-JUL-2009 23:00:22 | Bright     | 46.500 | 11  | 53Alp Aql | 0.76500 | 8000.0 | 93  | 38575 | No  |
| 77 | GOM_TRA_1PNPDE20090716_231131_000000432080_00445_38575_0516.N1 | 16-JUL-2009 23:11:31 | Bright     | 43.000 | 144 | 18Del Cyg | 2.8600  | 11000. | 86  | 38575 | No  |
| 78 | GOM_TRA_1PNPDE20090716_231346_000000502080_00445_38575_0517.N1 | 16-JUL-2009 23:13:46 | Bright     | 50.000 | 19  | 50Alp Cyg | 1.2460  | 10500. | 100 | 38575 | No  |
| 79 | GOM_TRA_1PNPDE20090716_231841_000000422080_00445_38575_0518.N1 | 16-JUL-2009 23:18:41 | Bright     | 42.000 | 89  | 5Alp Cep  | 2.4510  | 8000.0 | 84  | 38575 | No  |
| 80 | GOM_TRA_1PNPDE20090716_232606_000000742080_00445_38575_0519.N1 | 16-JUL-2009 23:26:06 | Bright     | 74.000 | 74  | 11Bet Cas | 2.2680  | 6600.0 | 148 | 38575 | No  |
| 81 | GOM_TRA_1PNPDE20090716_232802_000000552080_00445_38575_0520.N1 | 16-JUL-2009 23:28:02 | Bright     | 55.000 | 68  | 18Alp Cas | 2.2250  | 4500.0 | 110 | 38575 | No  |
| 82 | GOM_TRA_1PNPDE20090716_233238_000000412080_00445_38575_0521.N1 | 16-JUL-2009 23:32:38 | Bright     | 41.000 | 160 | 23Gam Per | 2.9300  | 4700.0 | 82  | 38575 | No  |
| 83 | GOM_TRA_1PNPDE20090716_233400_000000602080_00445_38575_0522.N1 | 16-JUL-2009 23:34:00 | Bright     | 60.000 | 35  | 33Alp Per | 1.7950  | 6250.0 | 120 | 38575 | No  |
| 84 | GOM_TRA_1PNPDE20090716_233658_000000512080_00445_38575_0523.N1 | 16-JUL-2009 23:36:58 | Bright     | 51.000 | 79  | 26Bet Per | 2.3100  | 13100. | 102 | 38575 | No  |
| 85 | GOM_TRA_1PNPDE20090716_234229_000000422080_00445_38575_0524.N1 | 16-JUL-2009 23:42:29 | Twilight   | 42.000 | 146 | 25Eta Tau | 2.8730  | 15200. | 84  | 38575 | No  |
| 86 | GOM_TRA_1PNPDE20090716_235033_000000592080_00445_38575_0525.N1 | 16-JUL-2009 23:50:33 | Dark       | 58.500 | 94  | 92Alp Cet | 2.5260  | 3100.0 | 117 | 38575 | No  |

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





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

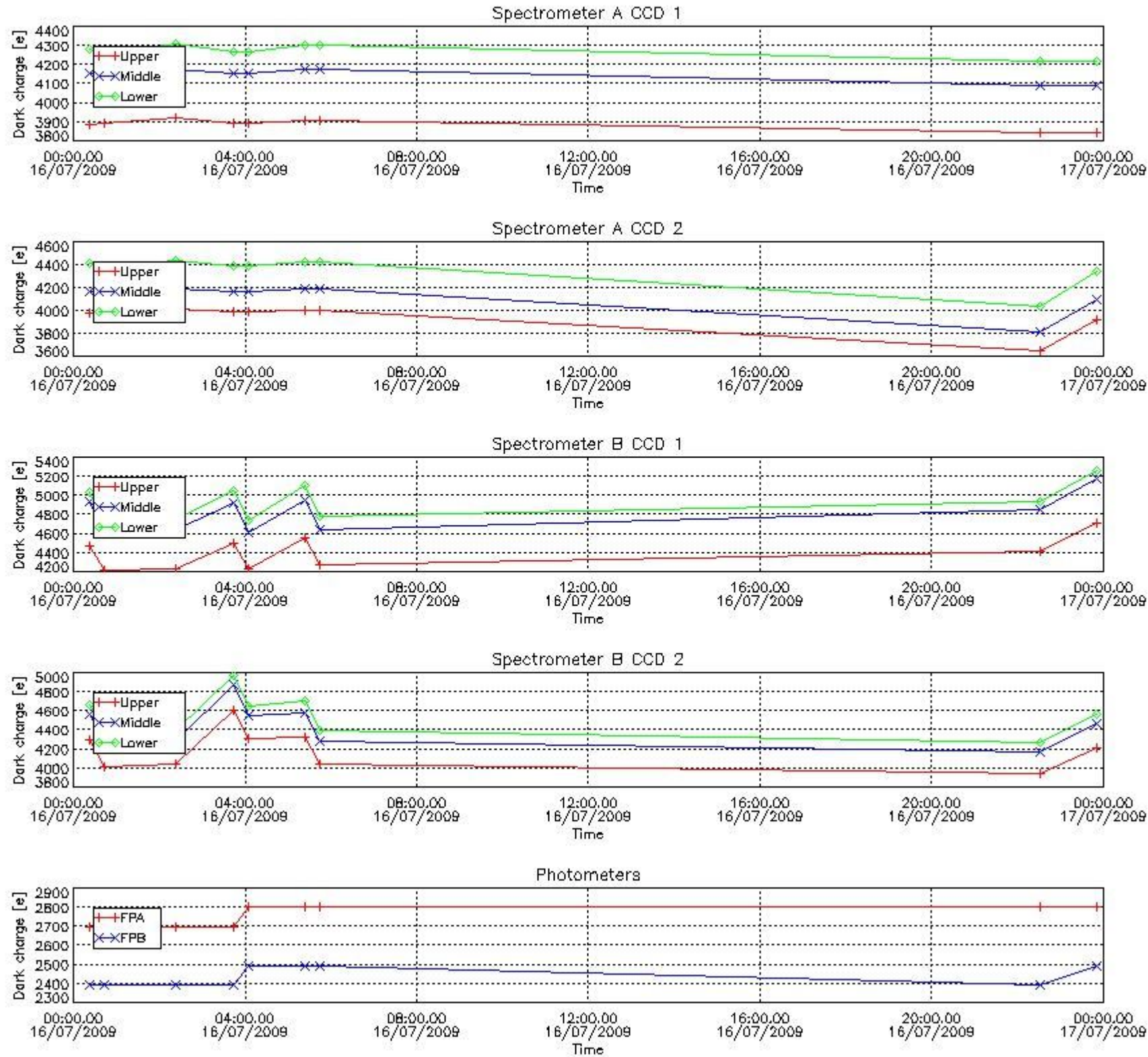
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

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

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

| Product name   | DC information |
|--|----------------|
| GOM_TRA_1PNPDE20090716_210105_000000512080_00444_38574_0367.N1 | DC map used    |
| GOM_TRA_1PNPDE20090716_211946_000000452080_00444_38574_0368.N1 | DC map used    |
| GOM_TRA_1PNPDE20090716_213055_000000422080_00444_38574_0369.N1 | DC map used    |
| GOM_TRA_1PNPDE20090716_213311_000000522080_00444_38574_0370.N1 | DC map used    |
| GOM_TRA_1PNPDE20090716_213806_000000442080_00444_38574_0371.N1 | DC map used    |
| GOM_TRA_1PNPDE20090716_214531_000000522080_00444_38574_0372.N1 | DC map used    |
| GOM_TRA_1PNPDE20090716_214727_000000542080_00444_38574_0373.N1 | DC map used    |
| GOM_TRA_1PNPDE20090716_215203_000000512080_00444_38574_0374.N1 | DC map used    |
| GOM_TRA_1PNPDE20090716_215325_000000512080_00444_38574_0375.N1 | DC map used    |
| GOM_TRA_1PNPDE20090716_215622_000000462080_00444_38574_0376.N1 | DC map used    |
| GOM_TRA_1PNPDE20090716_220153_000000432080_00444_38574_0377.N1 | DC map used    |

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



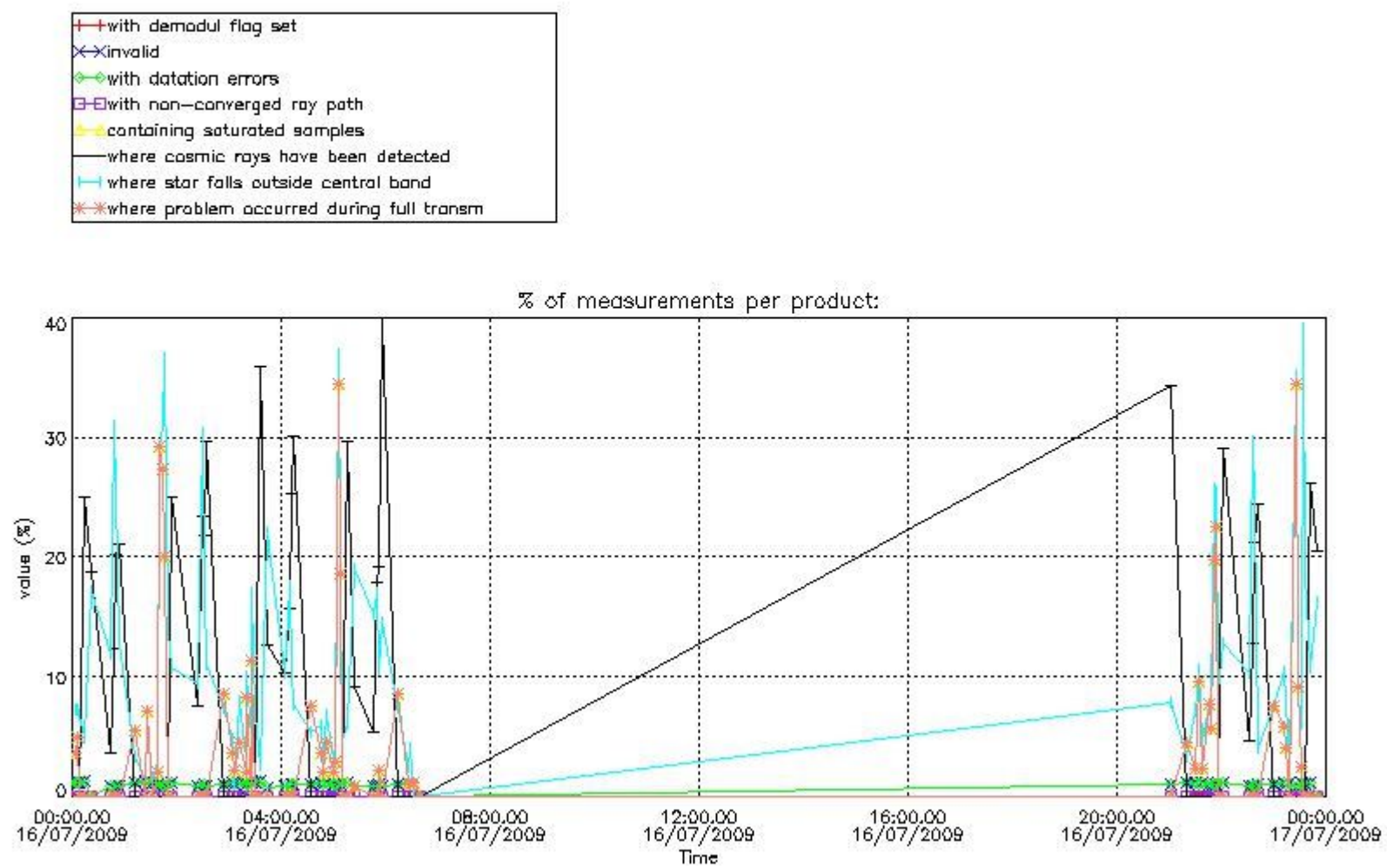
## 5. Demodulation flag and quality information monitoring

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

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

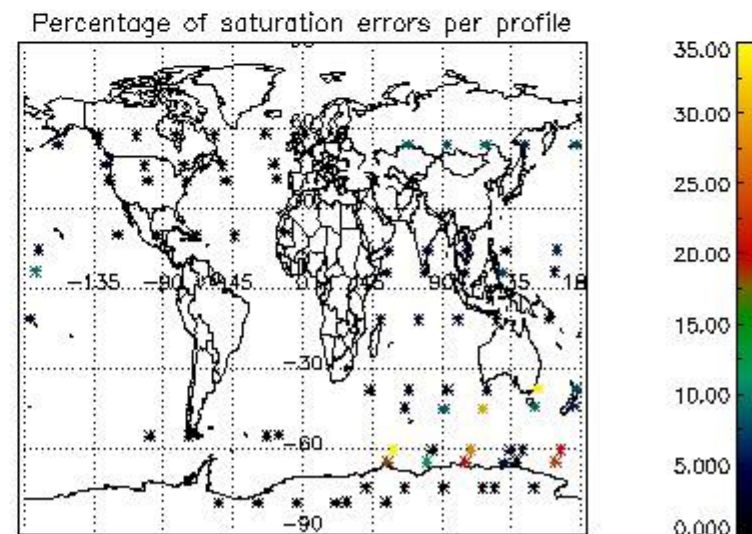
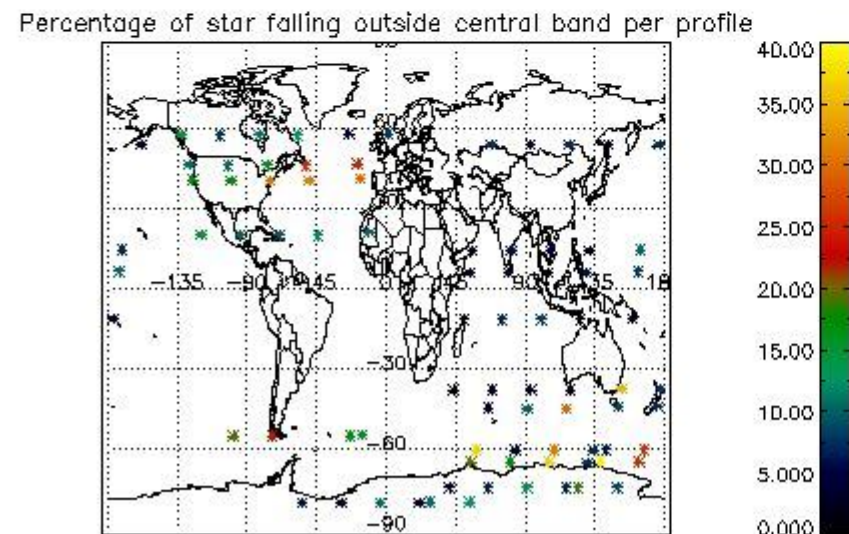
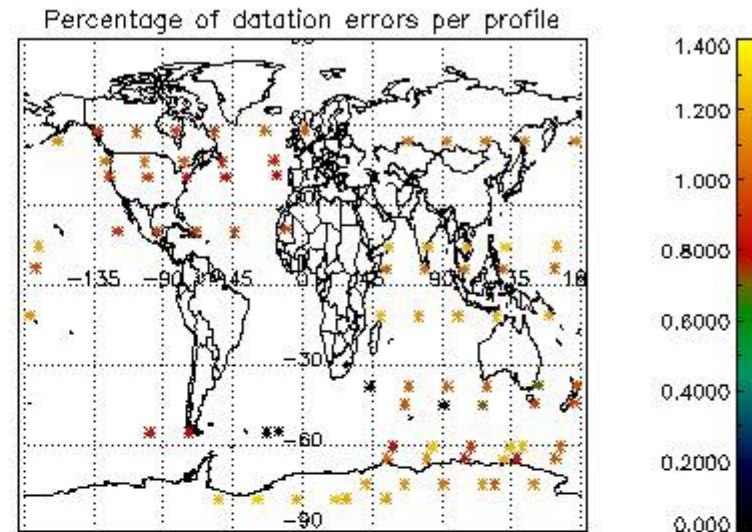
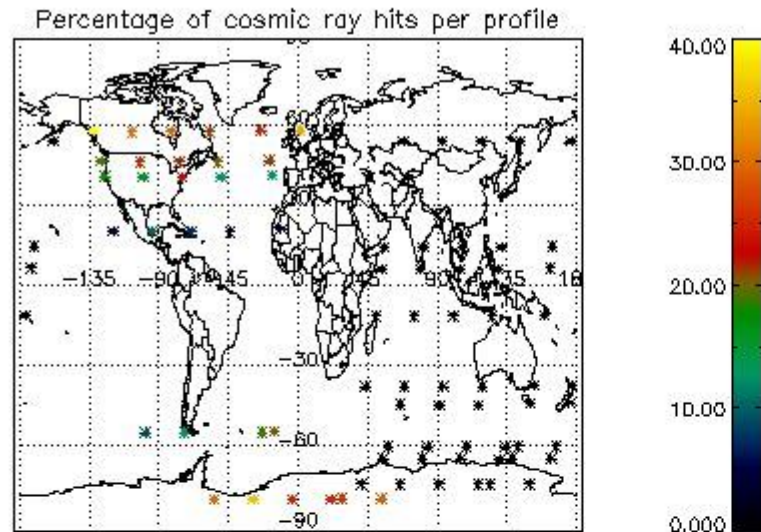
|   |           |
|---|-----------|
| At least one measurement with demodulation flag set:  | 21.4286 % |
| Reference spectrum computed from DB:                  | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used:                                   | 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)

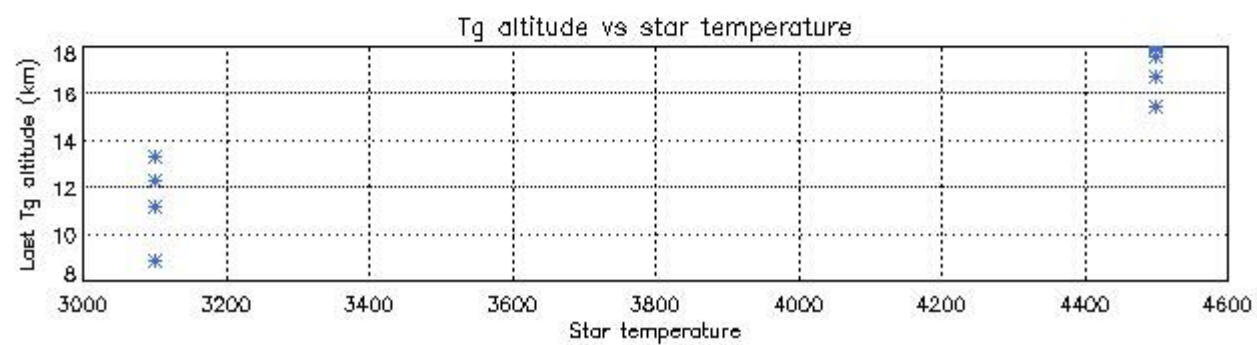
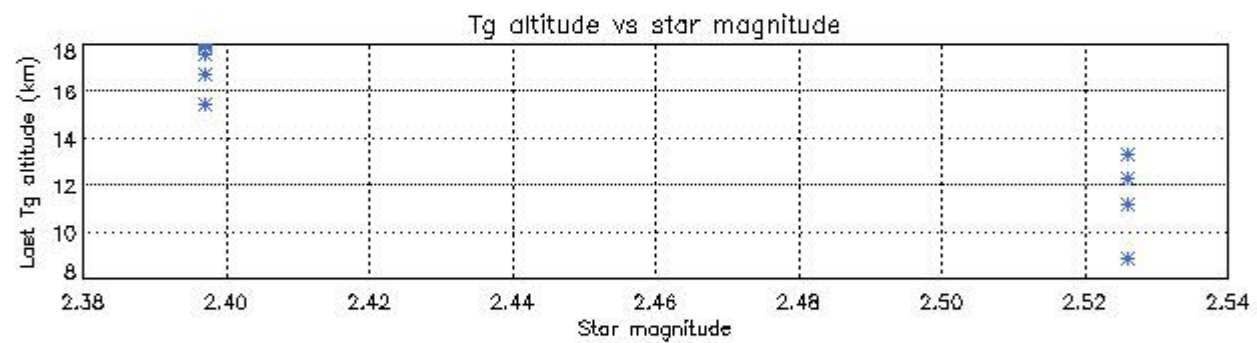
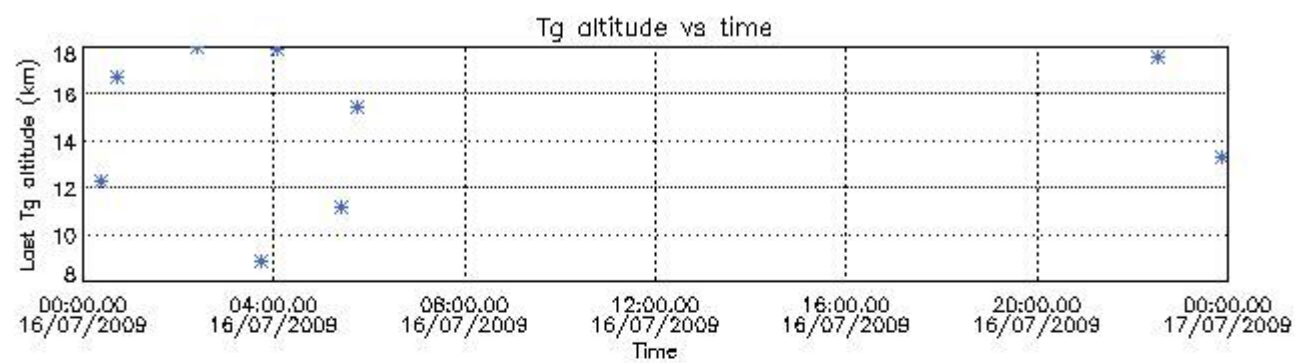
### 6.1 Statistics on tangent altitude lost:

| Statistics      | DARK   | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean:           | 14.585 | 18.741 | 21.255   |
| St. deviation:  | 3.3234 | 6.2785 | 2.4884   |
| Maximum:        | 17.967 | 35.460 | 24.991   |
| Minimum:        | 8.8724 | 3.0640 | 18.690   |
| Number of data: | 9.0000 | 53.000 | 6.0000   |

### 6.2 Plot for DARK limb products

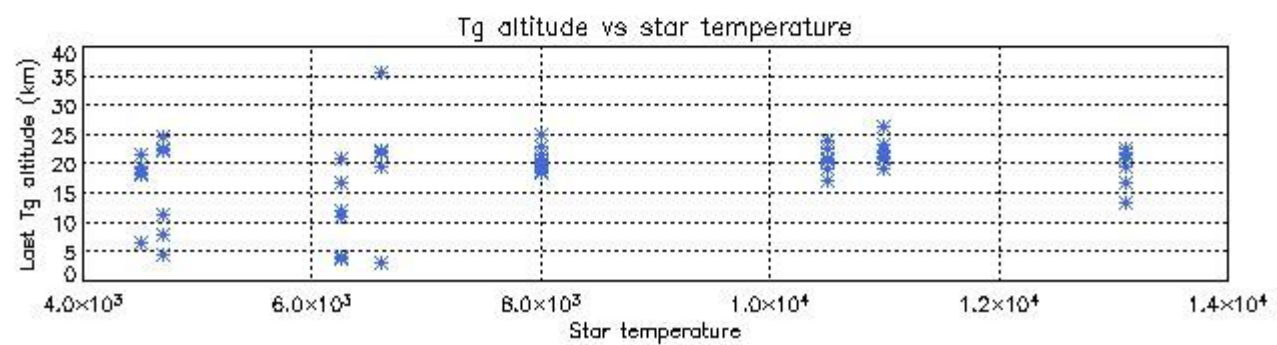
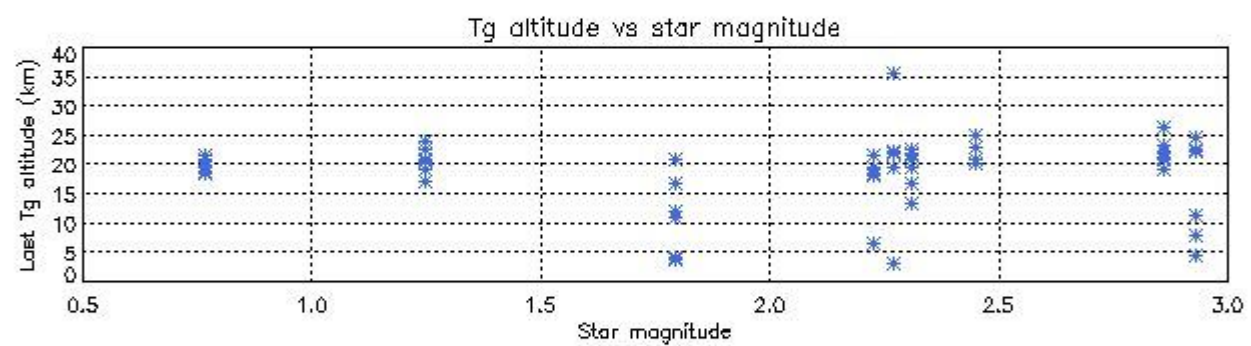
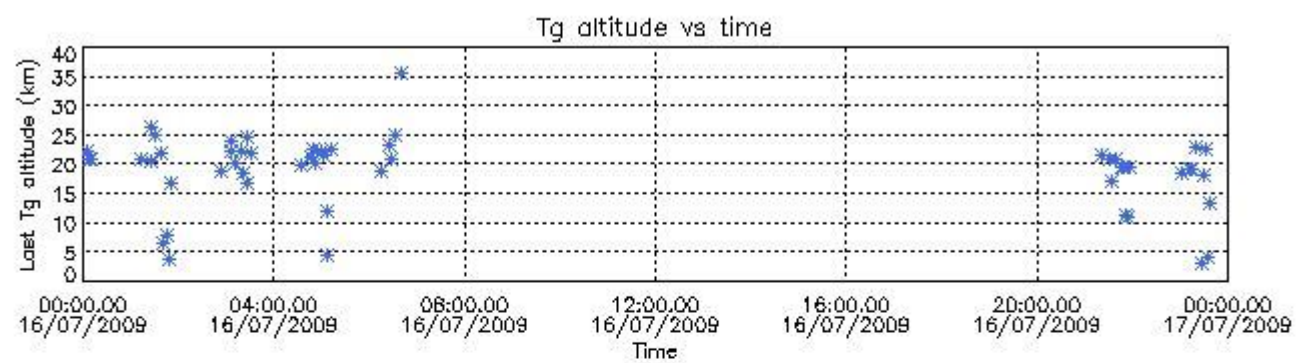


Tangent altitude at which the star is lost



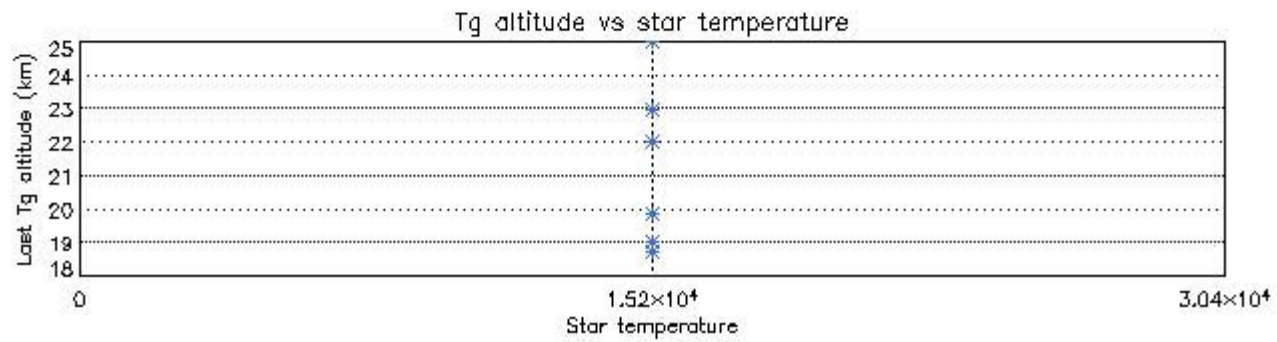
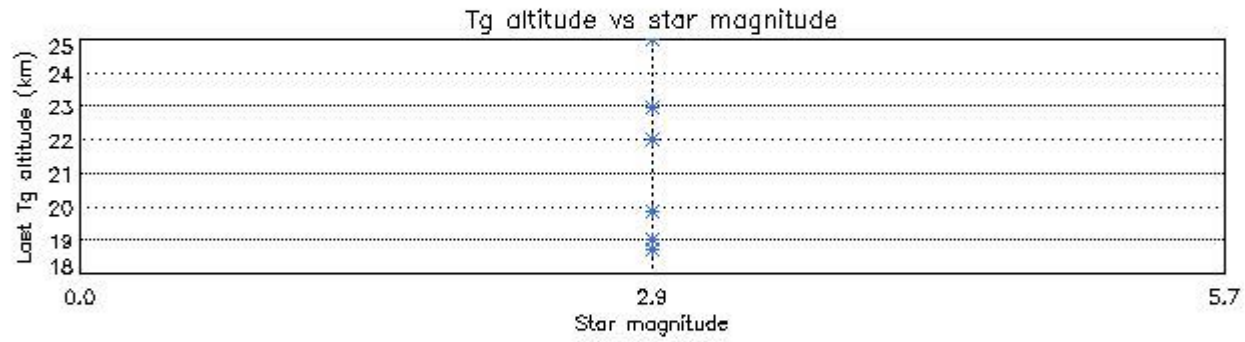
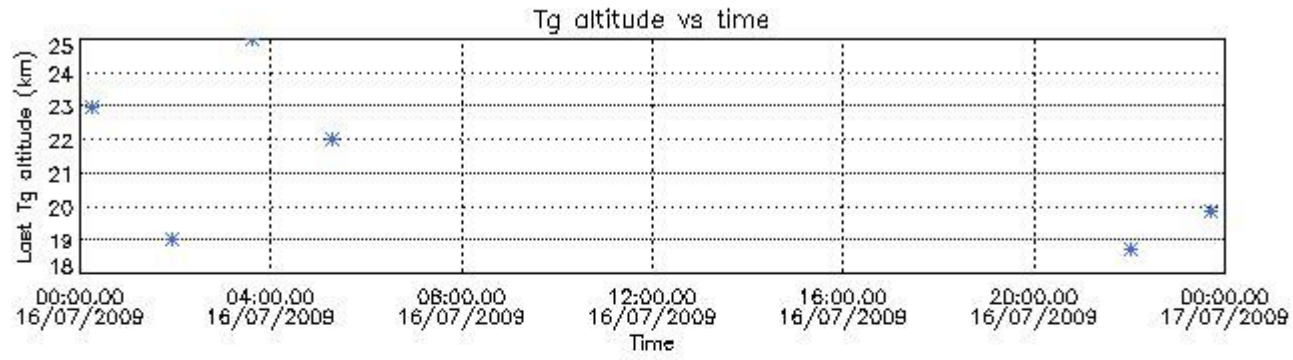
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost



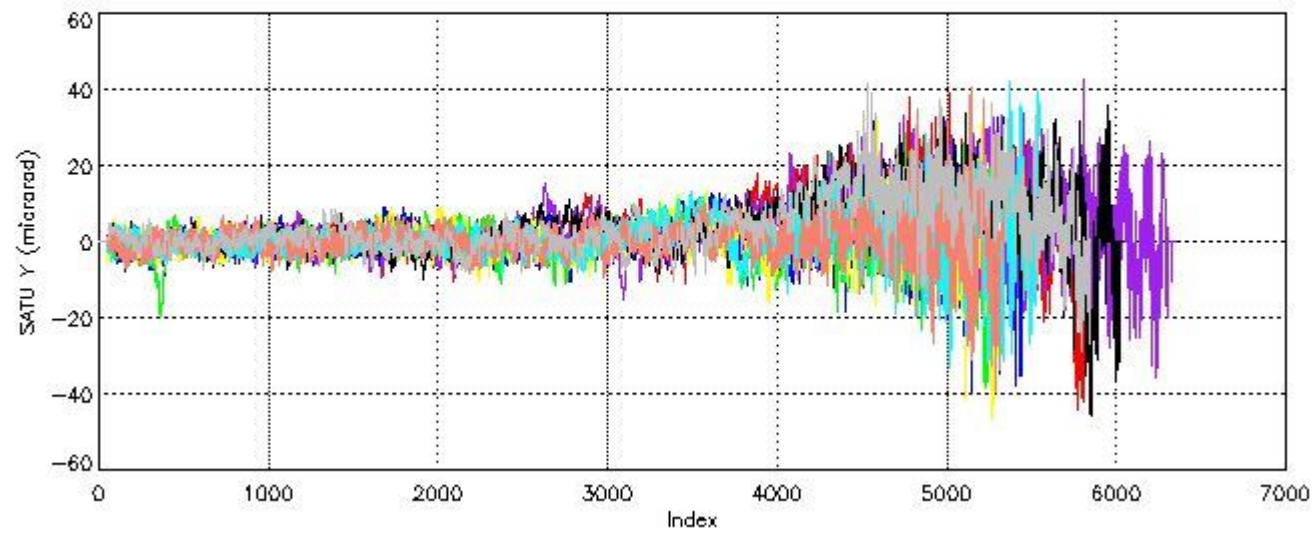
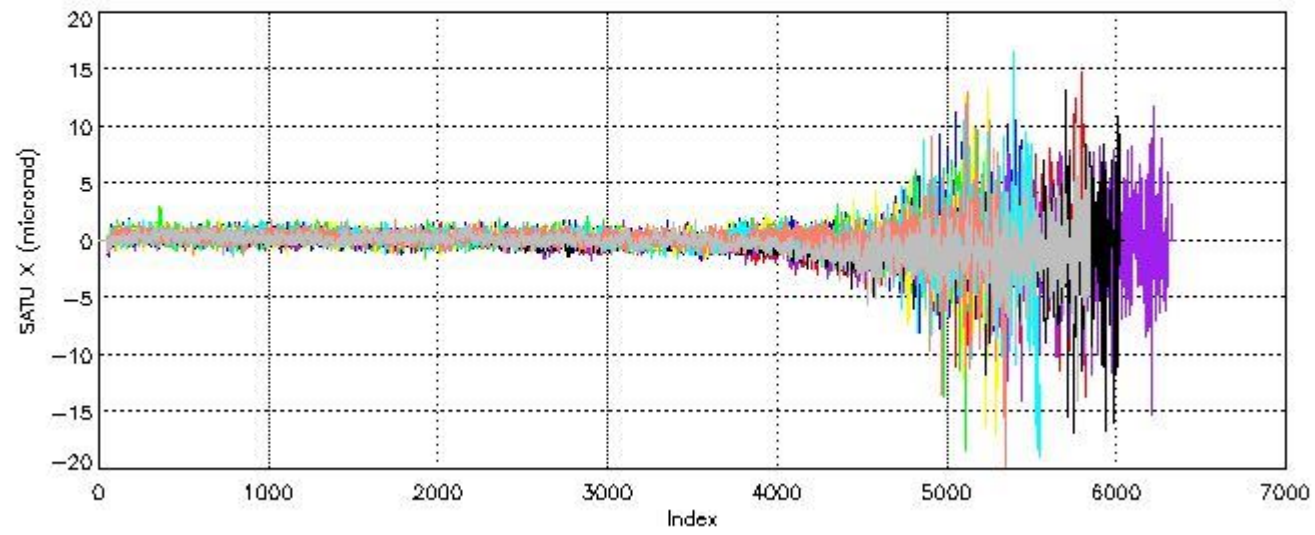
## 7. Star Acquisition and Tracking Unit (SATU)

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:          | 0.28359    | -0.33780   | 0.22703    | -0.14976   |
| St. deviation: | 0.39471    | 2.3822     | 0.78030    | 3.1589     |
| Maximum:       | 3.0000     | 7.7000     | 5.6000     | 13.200     |
| Minimum:       | -1.4000    | -19.500    | -4.9000    | -13.100    |

|                 |        |        |        |        |
|-----------------|--------|--------|--------|--------|
| Number of data: | 11200. | 11200. | 56650. | 56650. |
|-----------------|--------|--------|--------|--------|

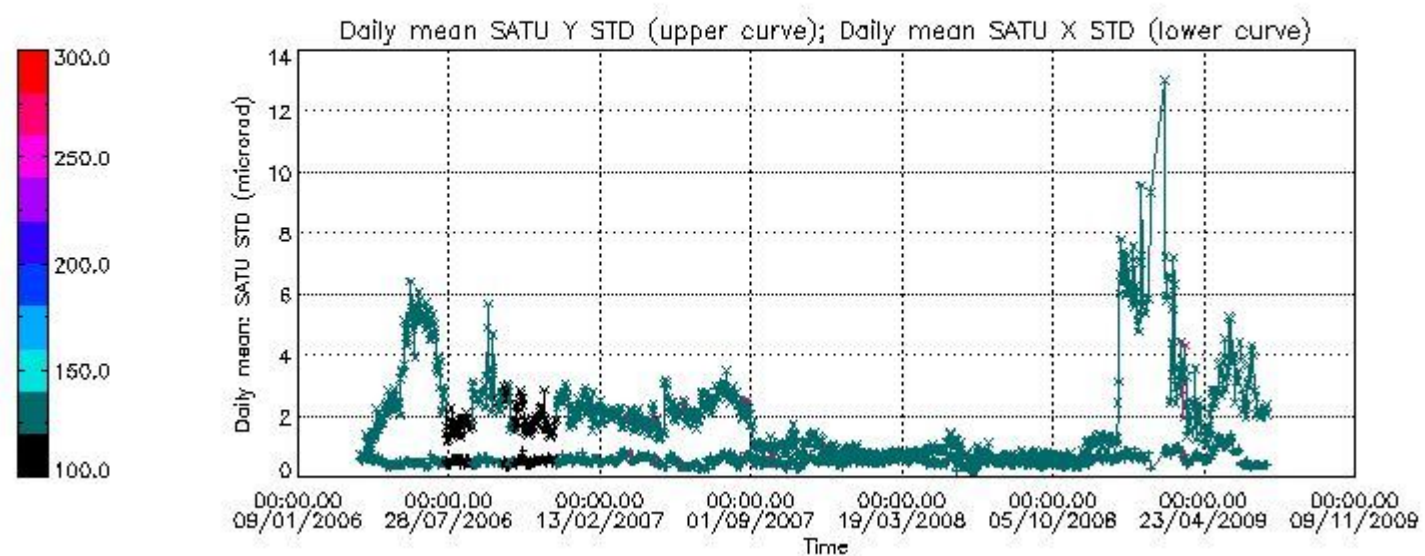
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

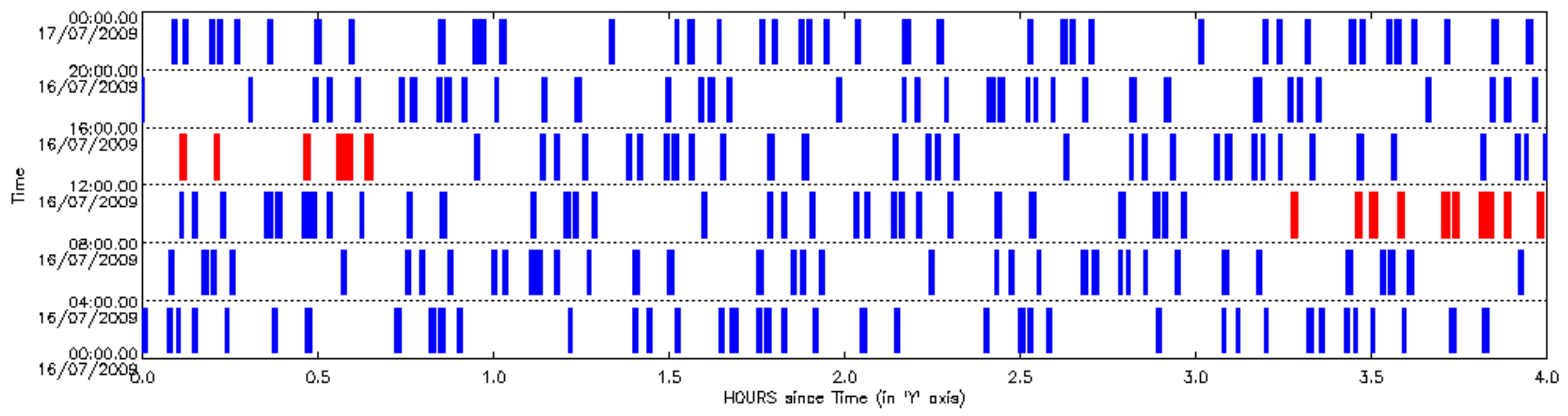
Lower curve: STD of SATU X axis



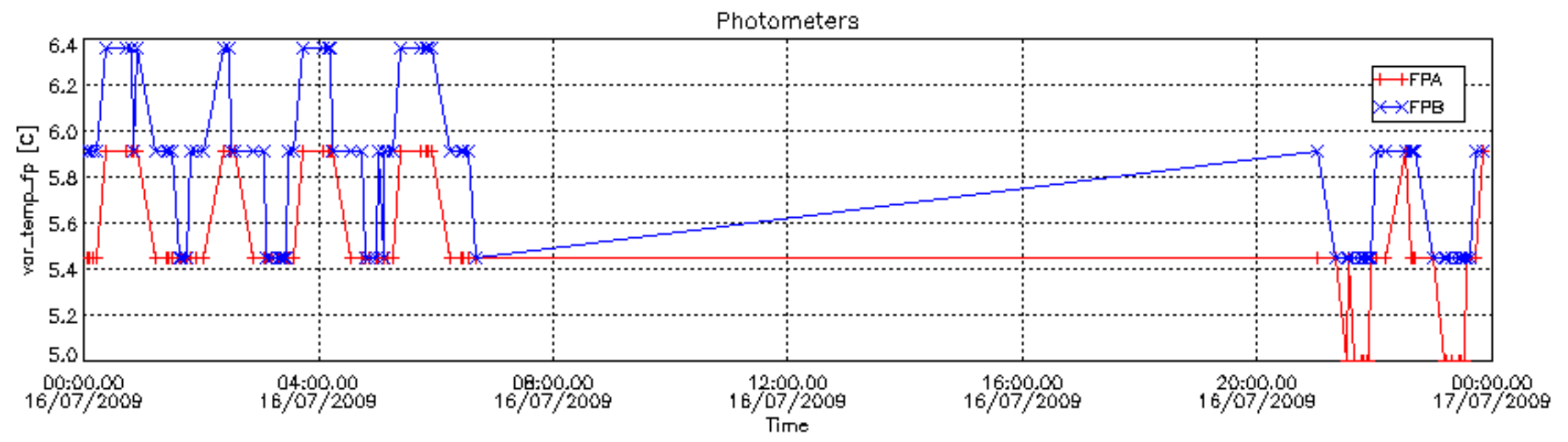
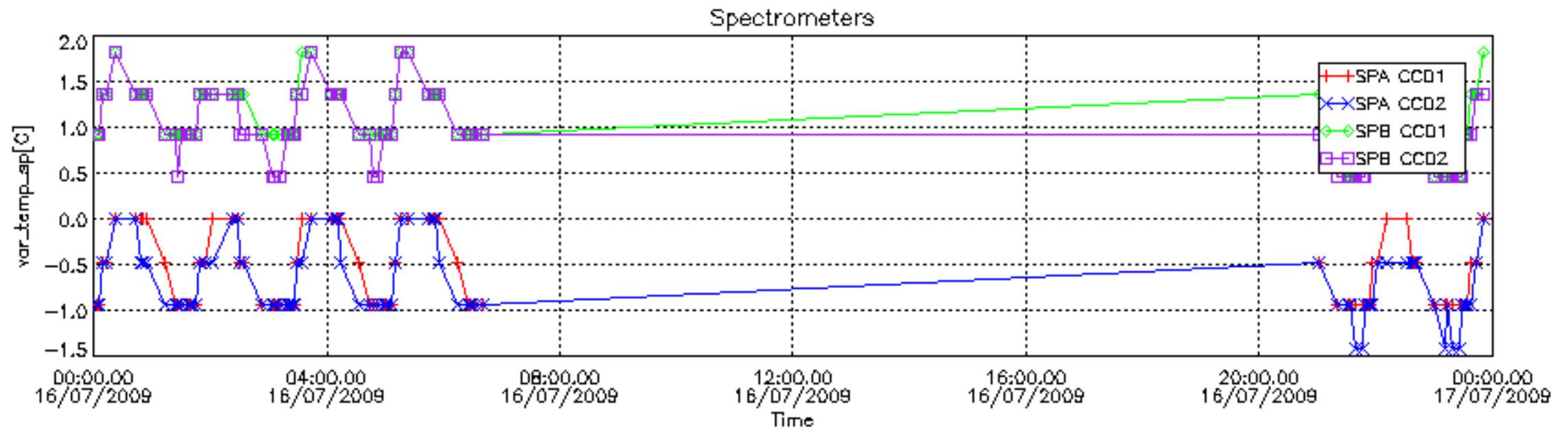
### 8. Auxiliary Data Files used for the production reported in section 2.4

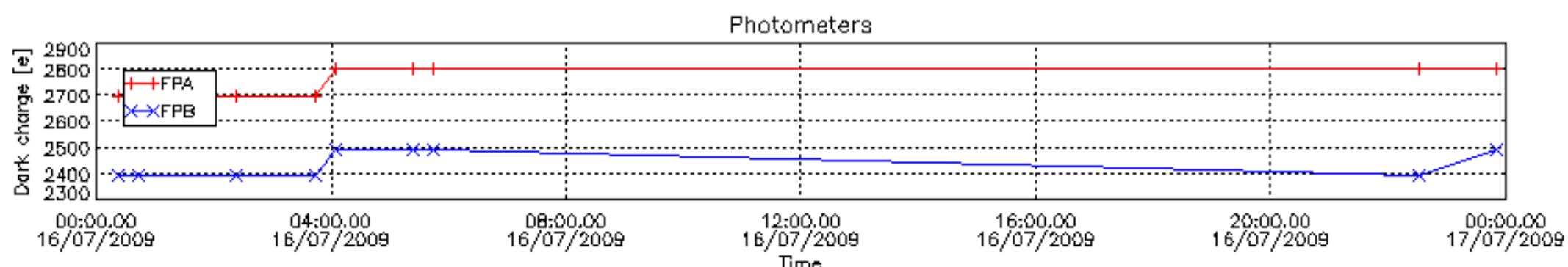
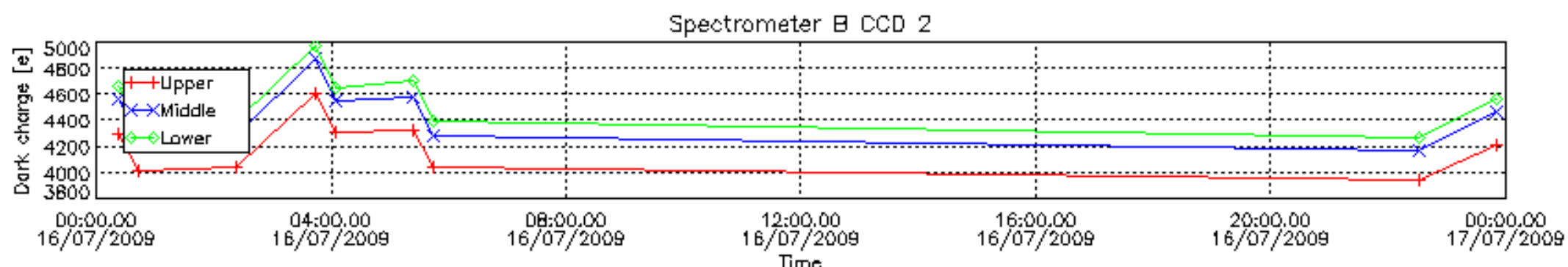
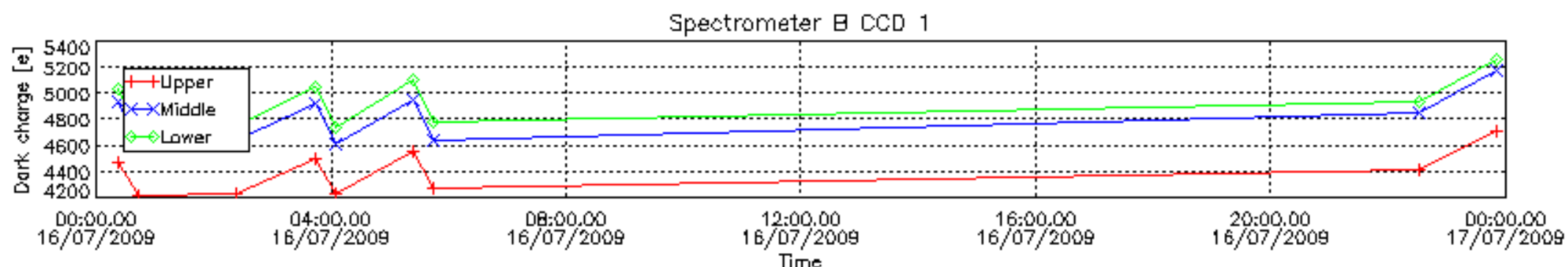
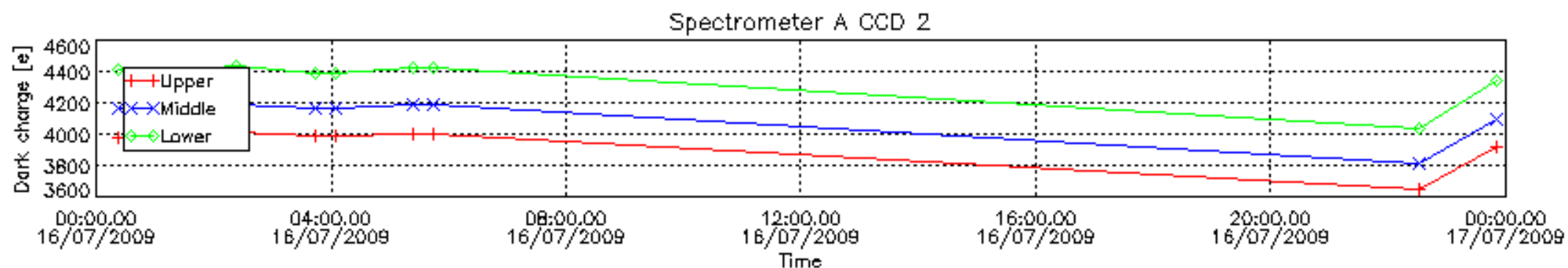
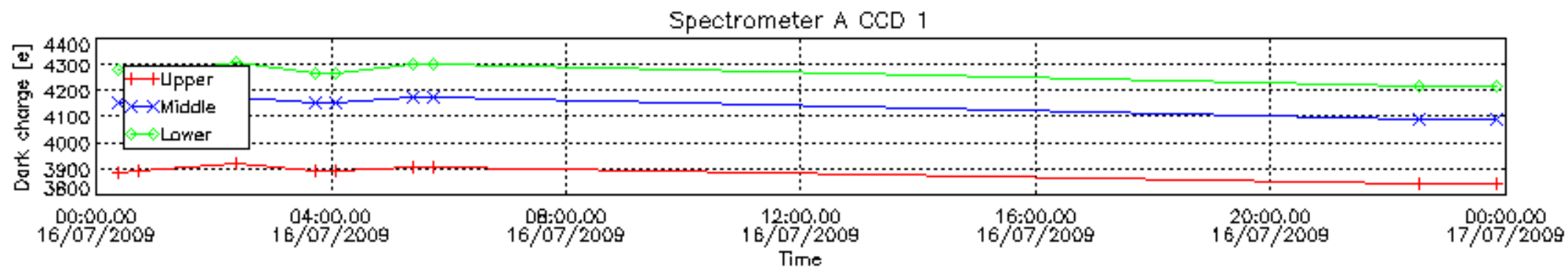
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

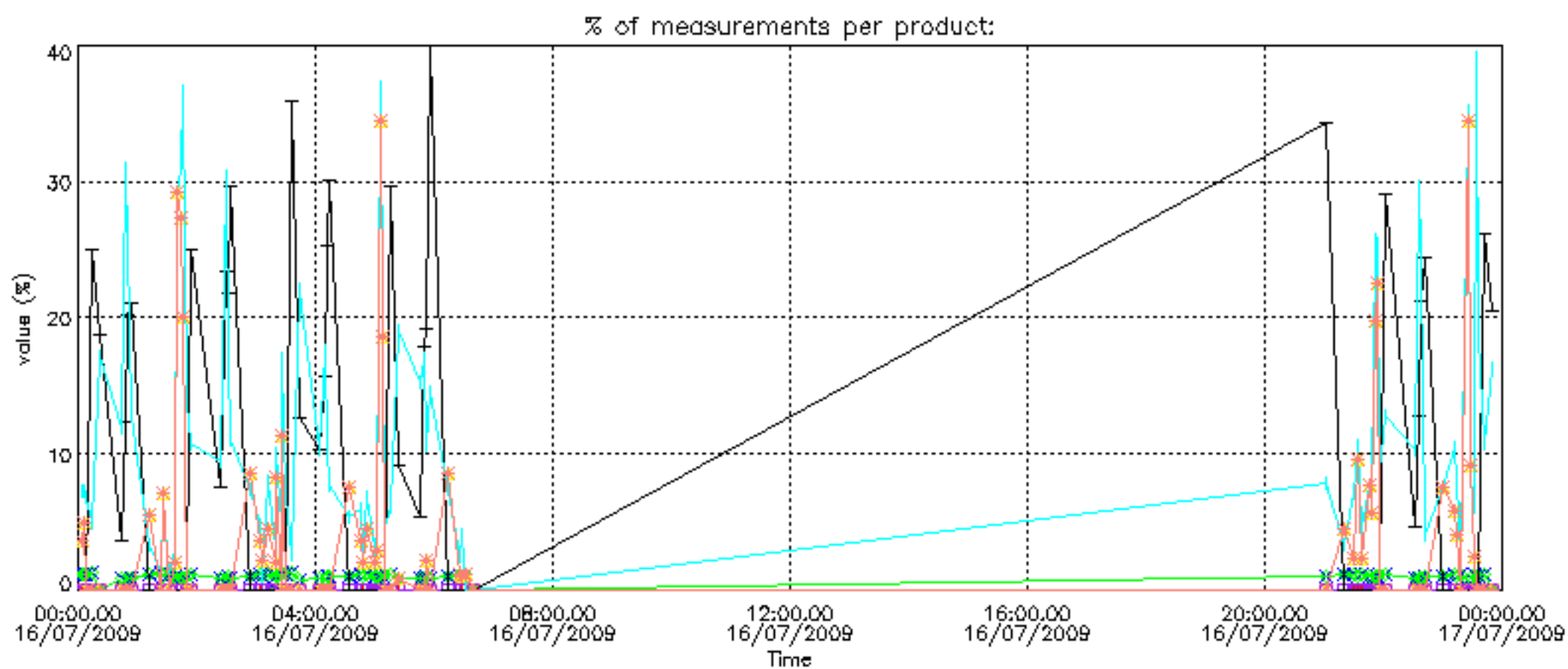
| Type                      | Auxiliary Filename   | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000  | 1                  | 16-JUL-2009 00:04:18    |
| CALIBRATION_DATABASE      | GOM_CAL_AXVIEC20090714_102335_20090712_000000_20100101_000000  | 1                  | 16-JUL-2009 00:04:18    |
| LEVEL-1B_PROC_CONFIG      | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000  | 1                  | 16-JUL-2009 00:04:18    |
| STAR_CATALOGUE            | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000  | 1                  | 16-JUL-2009 00:04:18    |
| STELLAR_SPECTRA_DATABANK  | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000  | 1                  | 16-JUL-2009 00:04:18    |
| ECMWF_FILE                | AUX_ECF_AXNECM20090715_064112_20090715_210000_20090716_090000  | 1                  | 16-JUL-2009 00:04:18    |
| ECMWF_FILE                | AUX_ECF_AXNECM20090715_182113_20090716_030000_20090716_150000  | 31                 | 16-JUL-2009 03:25:29    |
| ECMWF_FILE                | AUX_ECF_AXNECM20090716_064113_20090716_210000_20090717_090000  | 60                 | 16-JUL-2009 21:01:05    |
| OPTIONAL_ECMWF_FILE       | MISSING  | 1                  | 16-JUL-2009 00:04:18    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20090715_205722_000060572080_00429_38559_8360.N1 | 1                  | 16-JUL-2009 00:04:18    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20090715_224338_000057382080_00430_38560_8361.N1 | 6                  | 16-JUL-2009 00:43:09    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20090716_002435_000054192080_00431_38561_8362.N1 | 20                 | 16-JUL-2009 02:02:36    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20090716_020013_000044632080_00432_38562_8363.N1 | 31                 | 16-JUL-2009 03:25:29    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20090716_031955_000054192080_00433_38563_8364.N1 | 44                 | 16-JUL-2009 04:59:38    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20090716_205714_000038252080_00444_38574_8366.N1 | 60                 | 16-JUL-2009 21:01:05    |





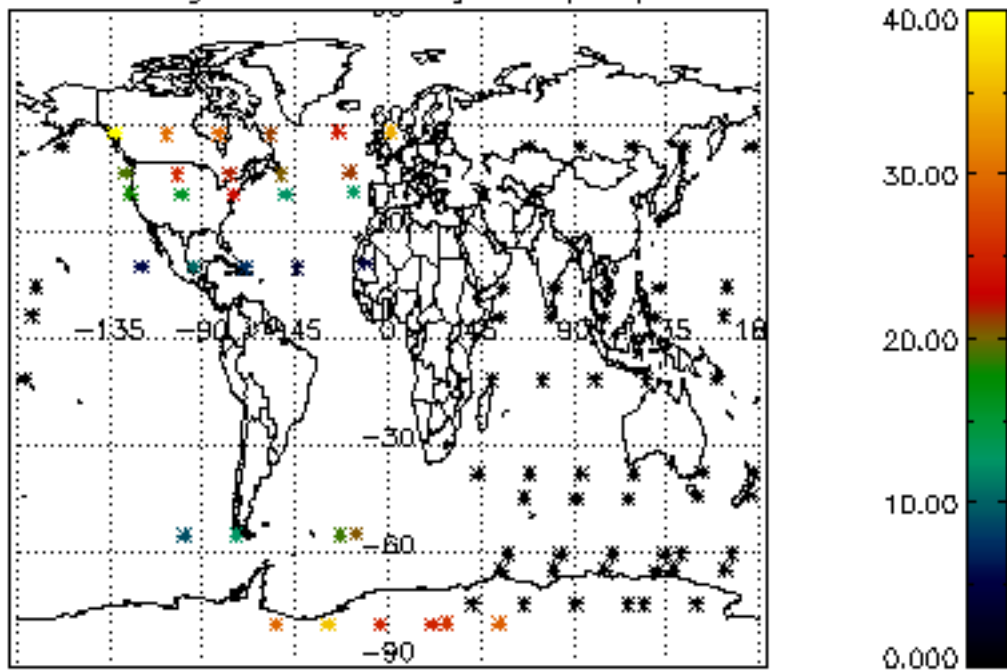




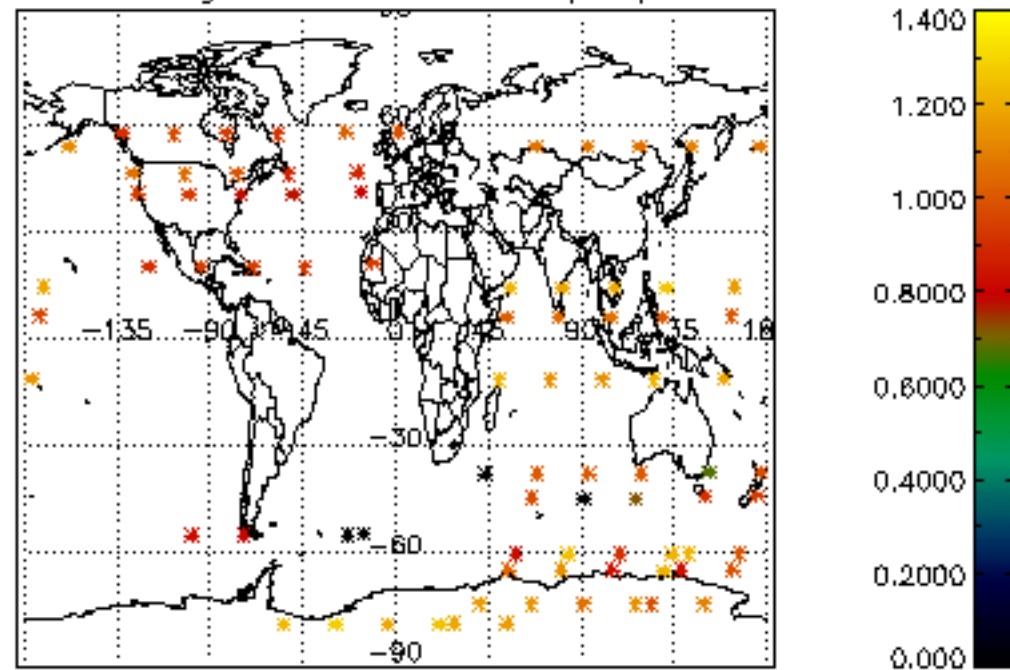




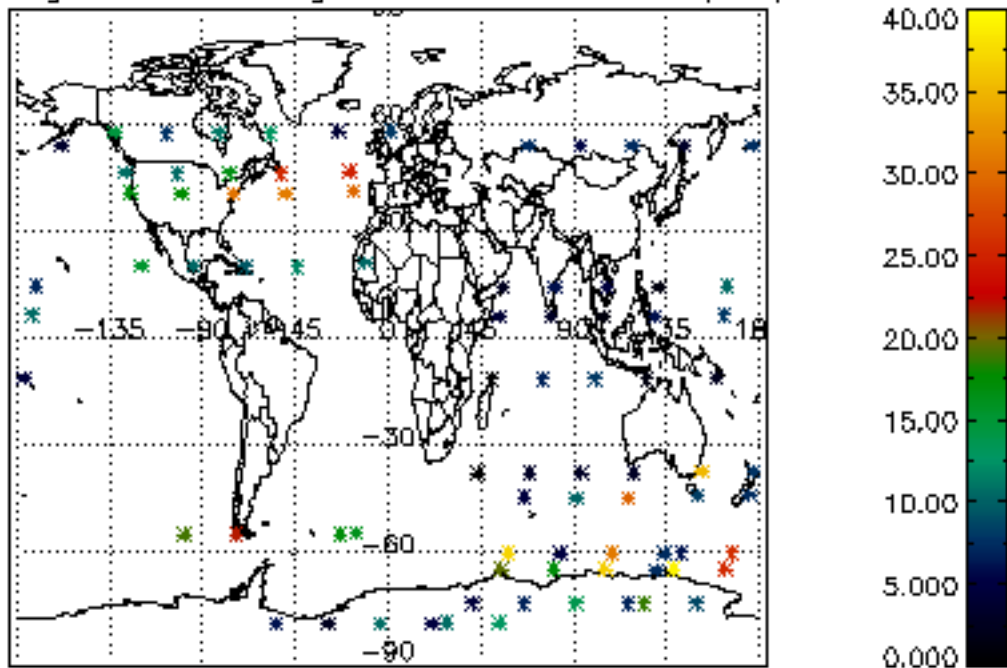
Percentage of cosmic ray hits per profile



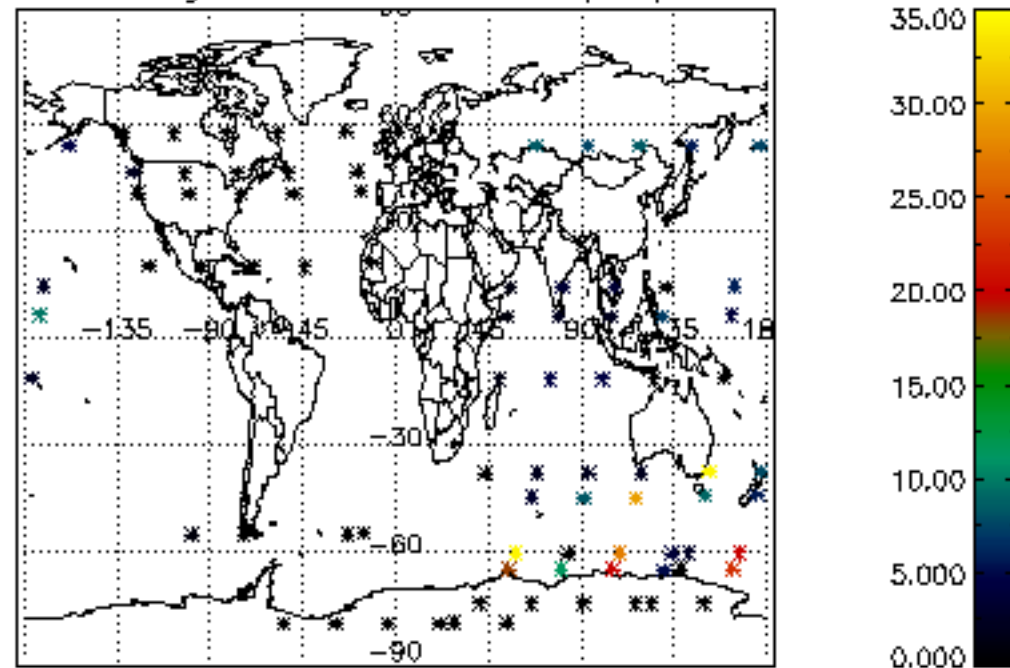
Percentage of datation errors per profile



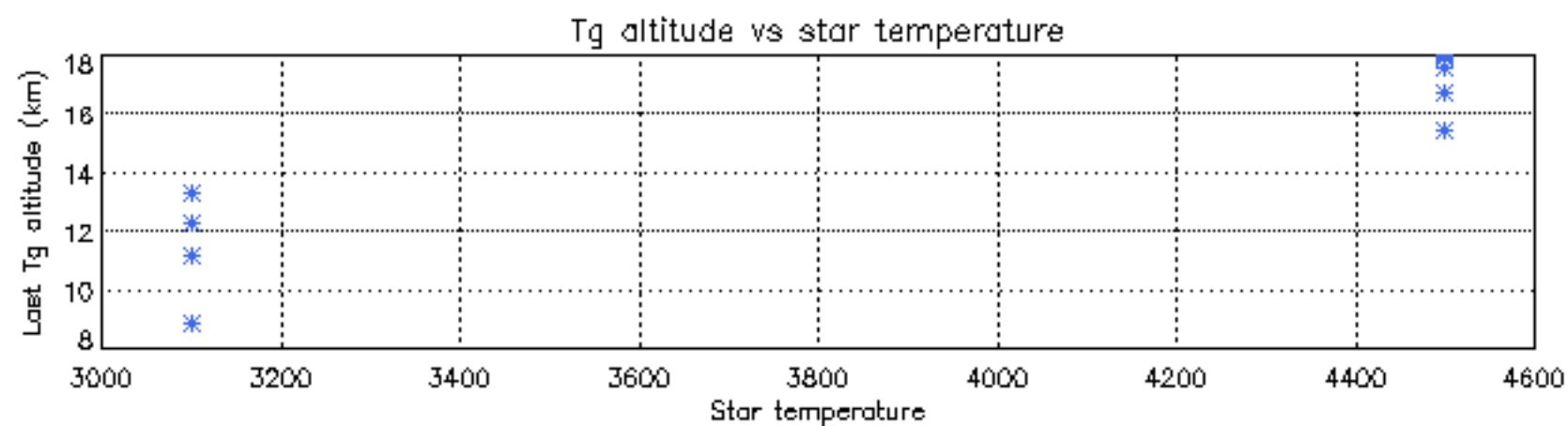
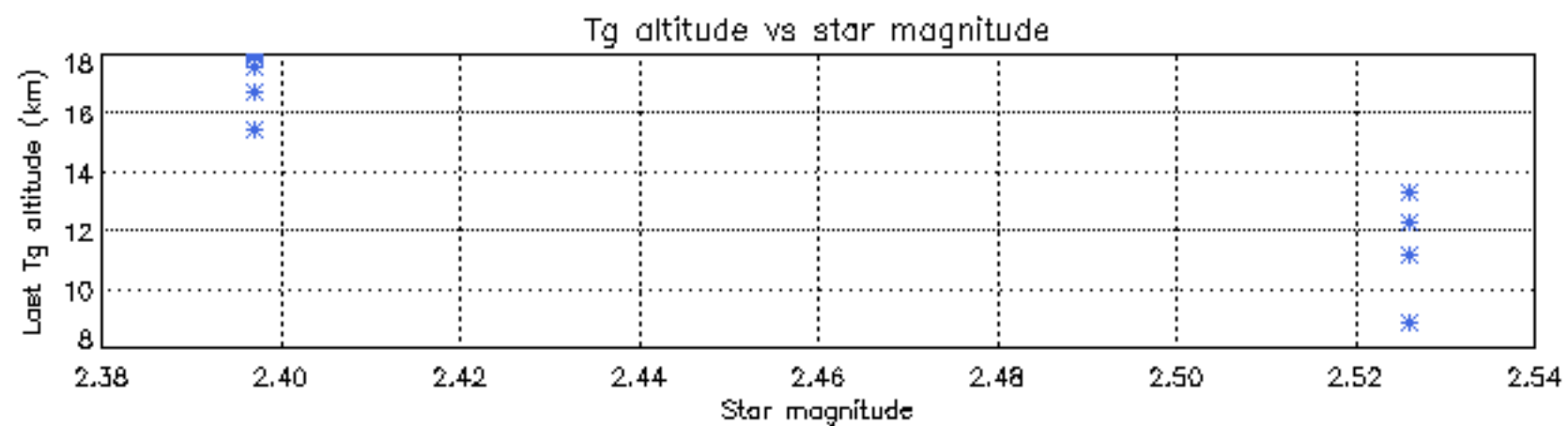
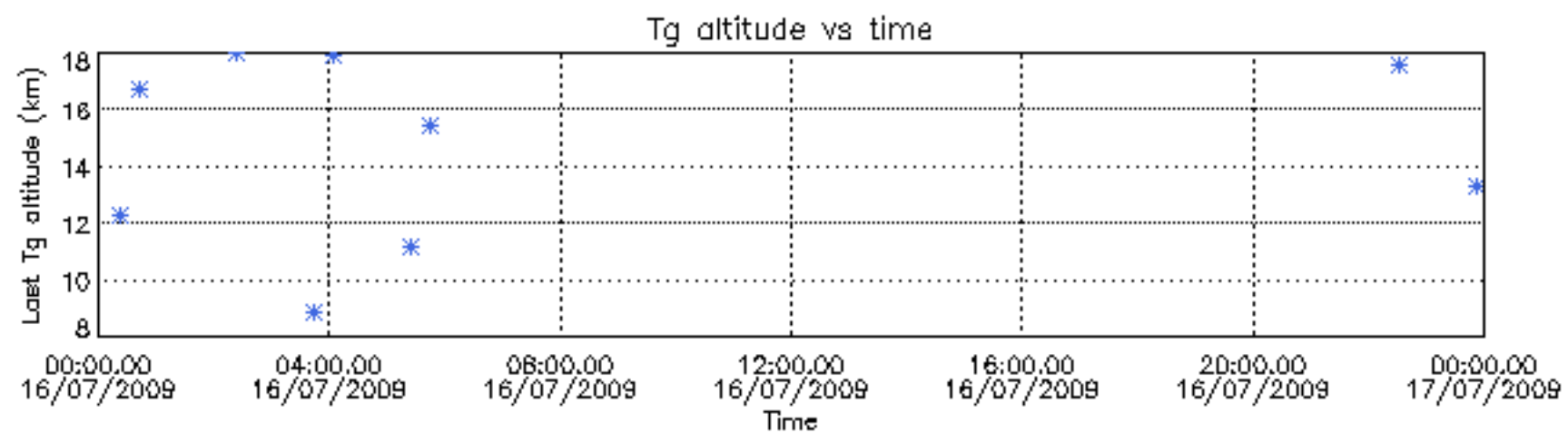
Percentage of star falling outside central band per profile



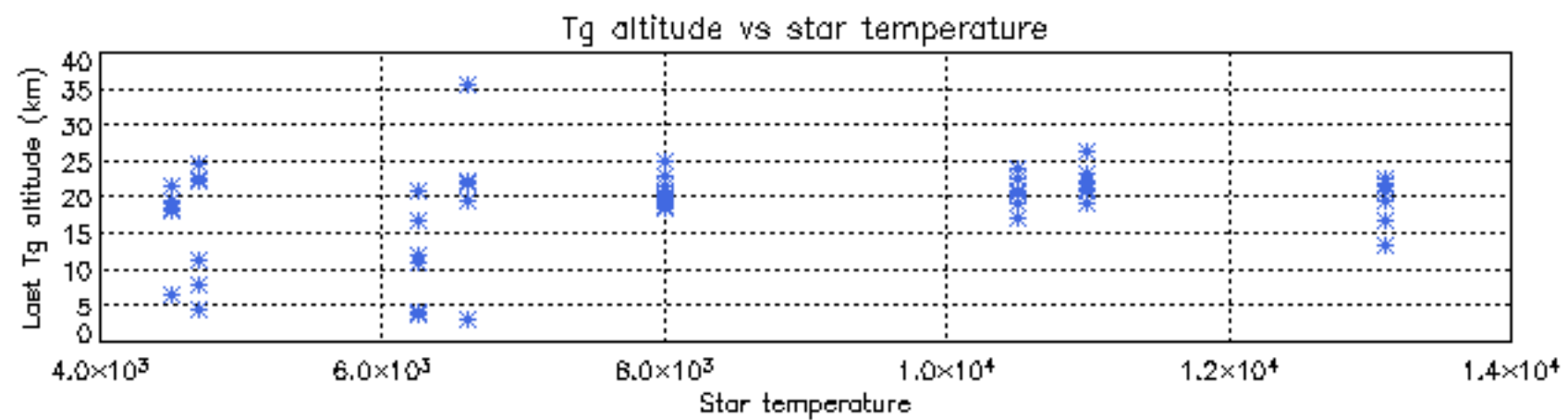
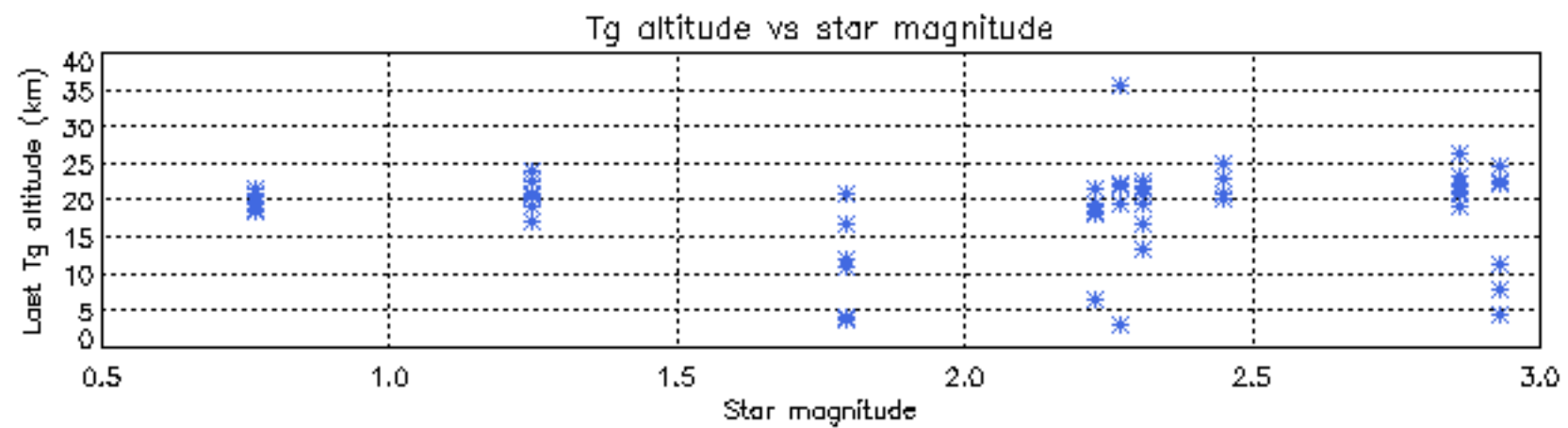
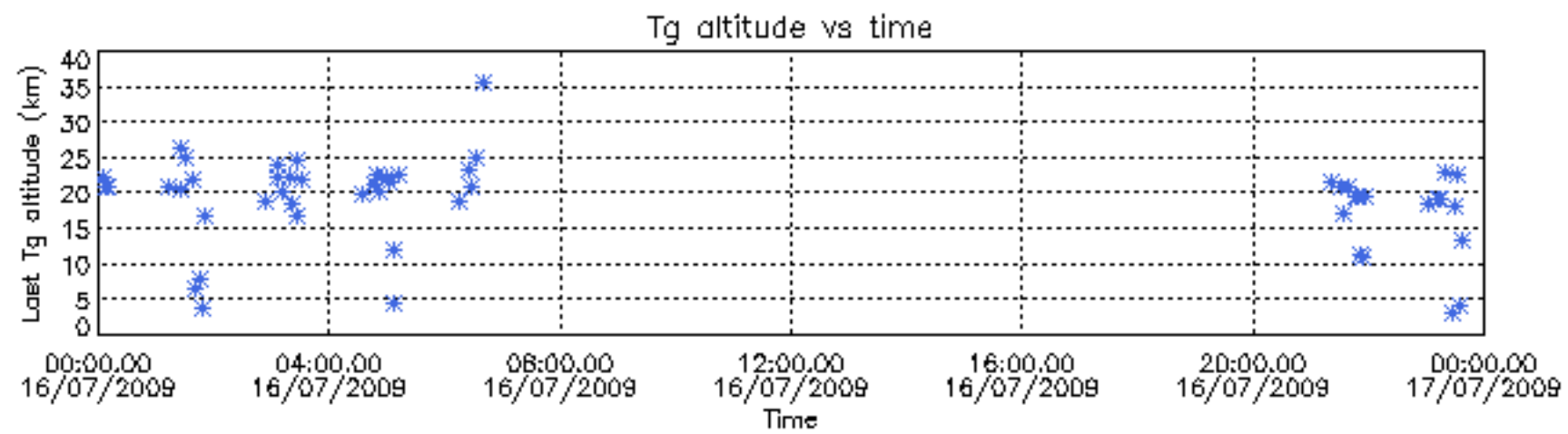
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

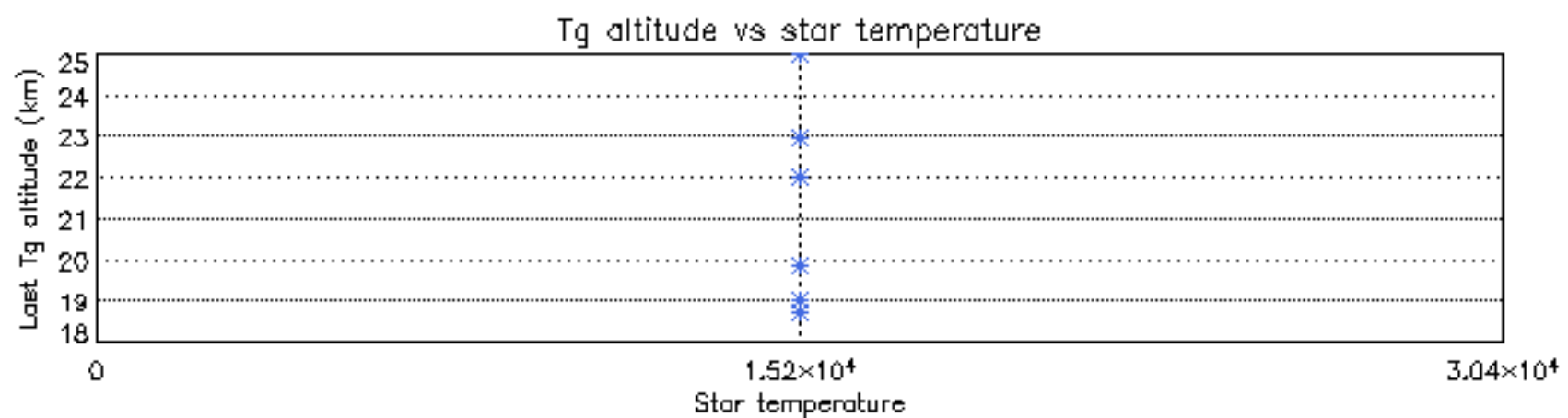
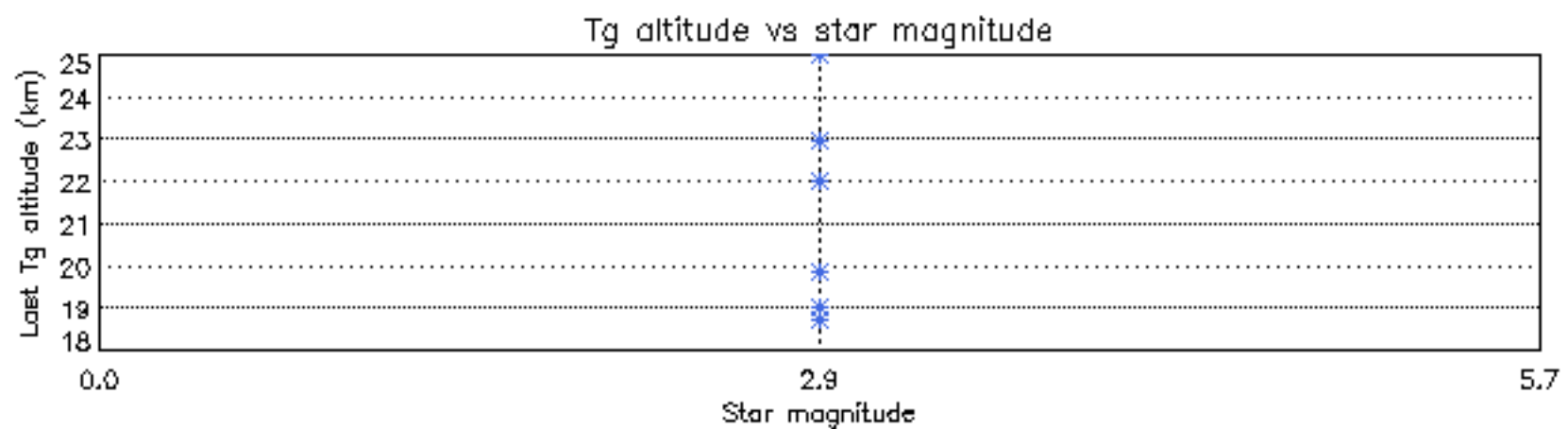
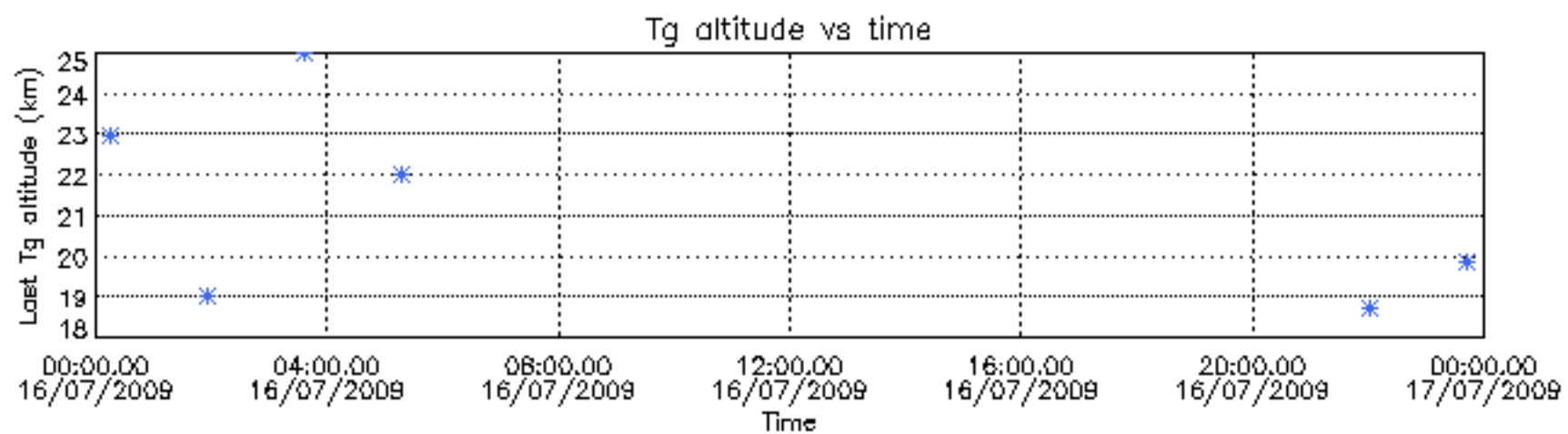


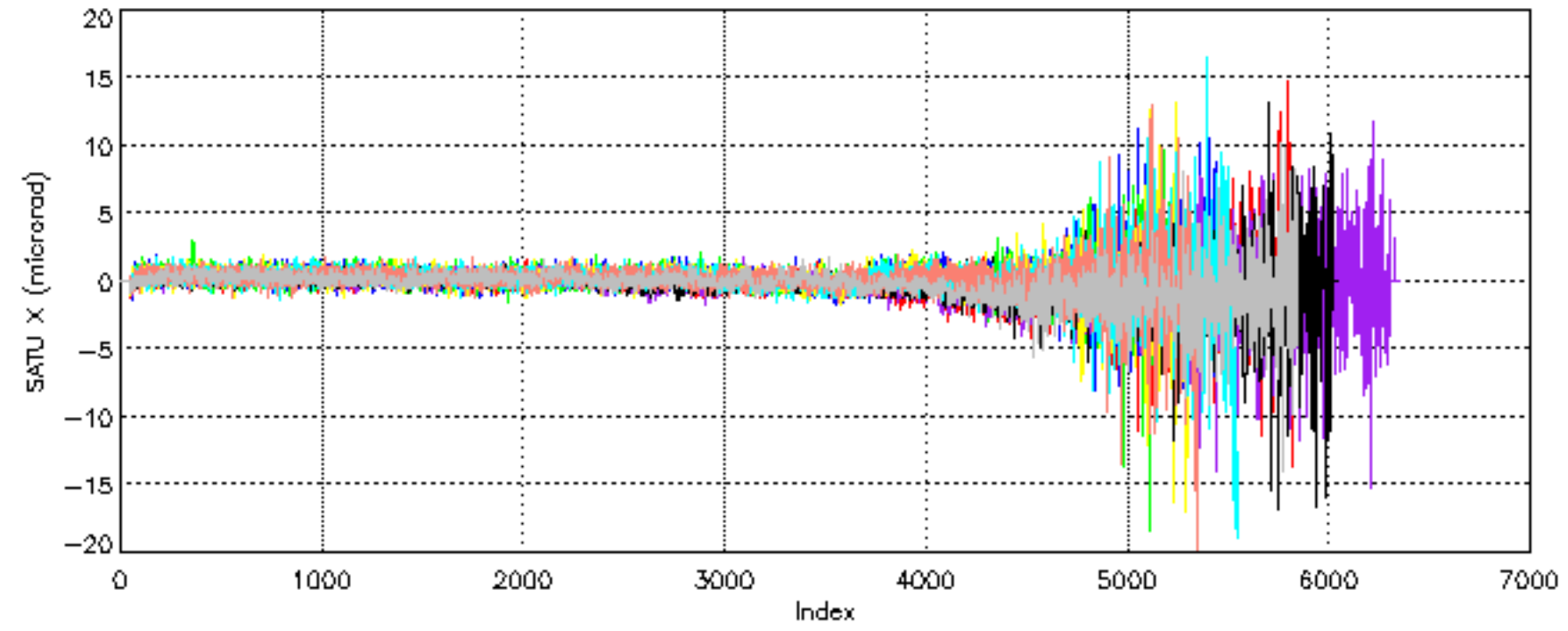
Tangent altitude at which the star is lost

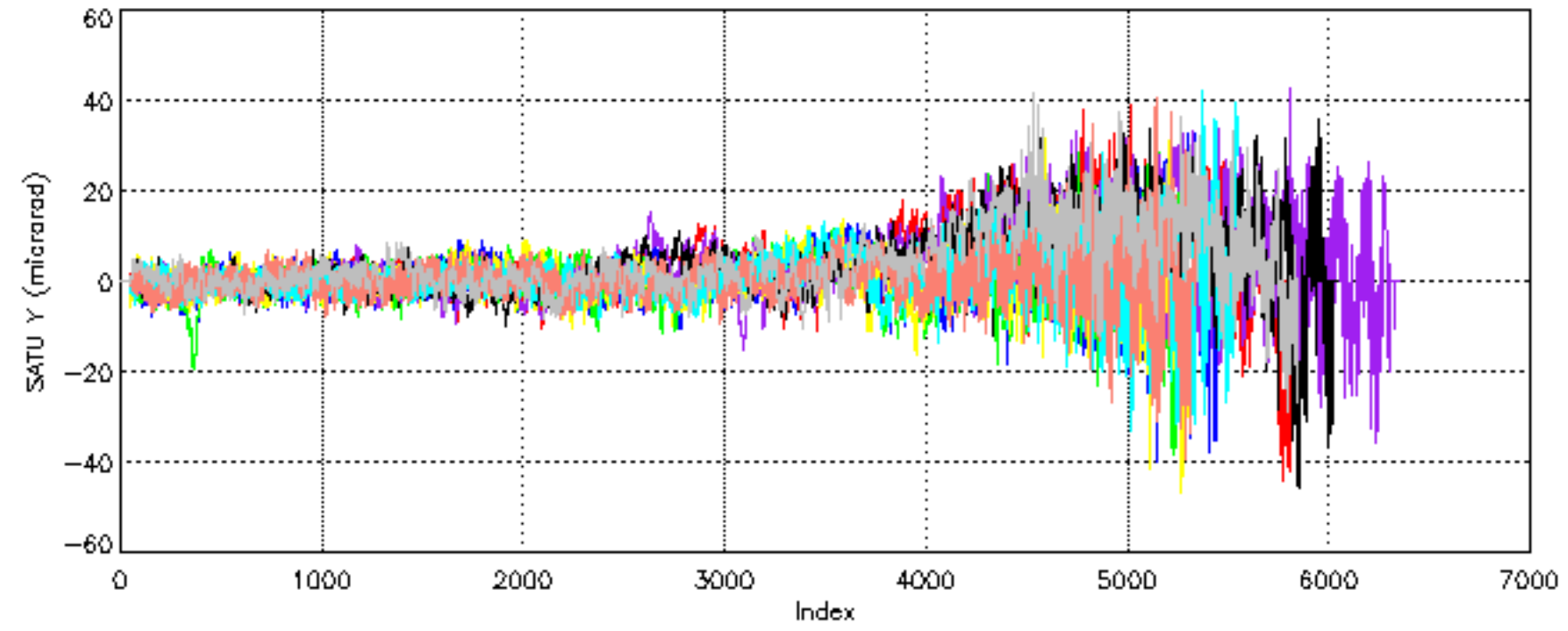


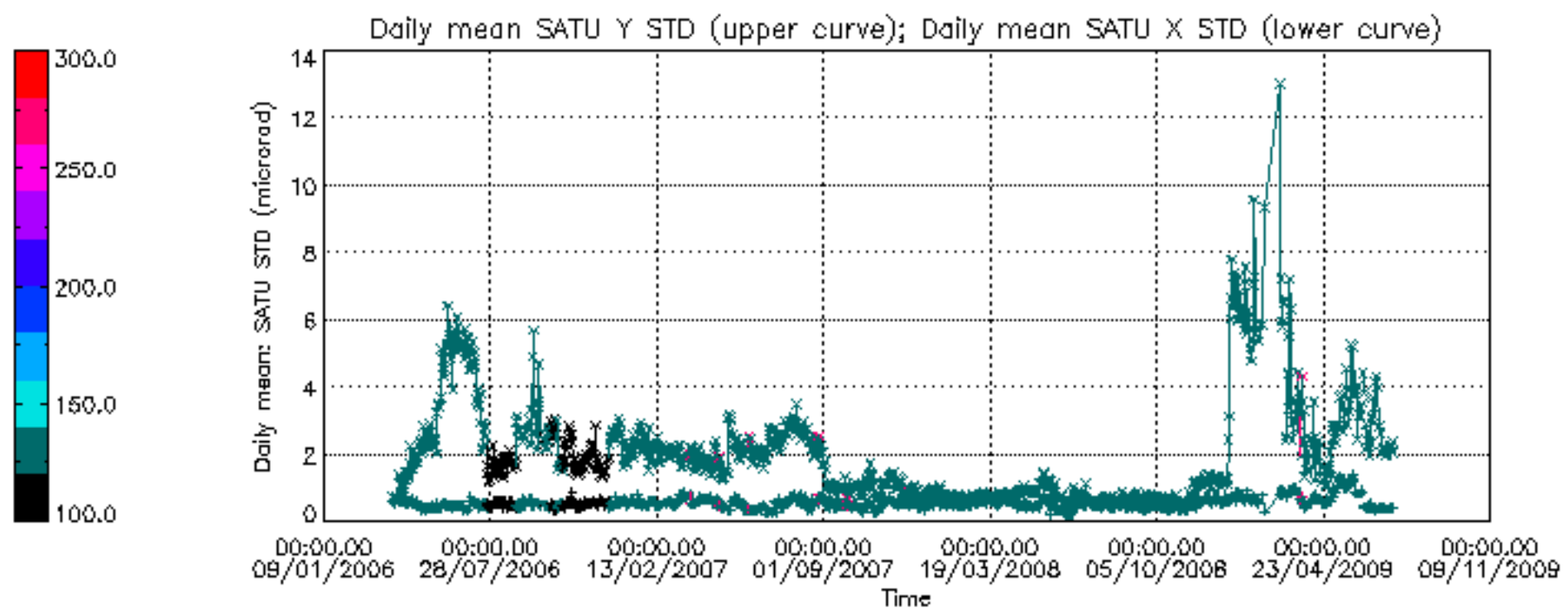


Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090702\_010909\_000044272080\_00231\_38361\_8080.N1

1; -520.0; 02-JUL-2009 01:09:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38361  
 2; 113.5; 02-JUL-2009 01:19:42; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;38362  
 3; 501.4; 02-JUL-2009 01:26:10; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38362  
 4; 616.8; 02-JUL-2009 01:28:06; Dark ; 59.0; 31; Alp Gru ; 1.73; 15200;occ; 118; 0;38362  
 5; 792.6; 02-JUL-2009 01:31:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38362  
 6; 1483.7; 02-JUL-2009 01:42:33; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;38362  
 7; 2224.2; 02-JUL-2009 01:54:53; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38362  
 8; 2644.5; 02-JUL-2009 02:01:53; Bright; 47.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 94; 0;38362  
 9; 2909.6; 02-JUL-2009 02:06:18; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38362  
 10; 3333.8; 02-JUL-2009 02:13:23; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38362  
 11; 3777.3; 02-JUL-2009 02:20:46; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38362  
 12; 3872.7; 02-JUL-2009 02:22:22; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;38362

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1; -532.5; 01-JUL-2009 01:40:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38347  
 2; 99.4; 01-JUL-2009 01:51:05; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;38348  
 3; 488.0; 01-JUL-2009 01:57:34; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;38348  
 4; 604.2; 01-JUL-2009 01:59:30; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38348  
 5; 777.8; 01-JUL-2009 02:02:24; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;38348  
 6; 1481.2; 01-JUL-2009 02:14:07; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;38348  
 7; 2231.3; 01-JUL-2009 02:26:37; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38348  
 8; 2651.1; 01-JUL-2009 02:33:37; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;38348  
 9; 2921.8; 01-JUL-2009 02:38:08; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38348  
 10; 3343.1; 01-JUL-2009 02:45:09; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38348  
 11; 3784.6; 01-JUL-2009 02:52:31; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;38348  
 12; 3876.9; 01-JUL-2009 02:54:03; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;38348

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1; -2159.1; 01-JUL-2009 02:54:03; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;38348  
 2; -1769.2; 01-JUL-2009 03:00:33; Bright; 34.5; 73; 57Gam1And ; 2.26; 13100;occ; 69; 0;38348  
 3; -1610.9; 01-JUL-2009 03:03:11; Dark ; 35.0; 173; 4Bet Tri ; 3.00; 8900;occ; 70; 0;38348  
 4; -1355.5; 01-JUL-2009 03:07:26; Dark ; 39.5; 50; 13Alp Ari ; 2.01; 4250;occ; 79; 0;38348  
 5; -531.6; 01-JUL-2009 03:21:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38348  
 6; 100.2; 01-JUL-2009 03:31:42; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;38349  
 7; 489.1; 01-JUL-2009 03:38:11; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38349  
 8; 605.3; 01-JUL-2009 03:40:07; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38349  
 9; 778.8; 01-JUL-2009 03:43:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38349  
 10; 1481.3; 01-JUL-2009 03:54:43; Bright; 44.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 88; 0;38349  
 11; 2230.9; 01-JUL-2009 04:07:13; Bright; 51.0; 168; 17Zet Aql ; 2.99; 11000;occ; 102; 0;38349  
 12; 2650.9; 01-JUL-2009 04:14:13; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;38349  
 13; 2920.9; 01-JUL-2009 04:18:43; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38349  
 14; 3342.2; 01-JUL-2009 04:25:44; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38349

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 2; -2158.9; 01-JUL-2009 04:34:39; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38349  
 3; -1769.3; 01-JUL-2009 04:41:09; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;38349  
 4; -1610.7; 01-JUL-2009 04:43:47; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38349  
 5; -1355.2; 01-JUL-2009 04:48:03; Dark ; 39.5; 50; 13Alp Ari ; 2.01; 4250;occ; 79; 0;38349  
 6; -530.7; 01-JUL-2009 05:01:47; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38349  
 7; 101.2; 01-JUL-2009 05:12:19; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;38350  
 8; 489.9; 01-JUL-2009 05:18:48; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38350  
 9; 606.1; 01-JUL-2009 05:20:44; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38350  
 10; 779.9; 01-JUL-2009 05:23:38; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38350  
 11; 1481.8; 01-JUL-2009 05:35:20; Bright; 43.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 86; 0;38350  
 12; 2230.2; 01-JUL-2009 05:47:48; Bright; 49.5; 168; 17Zet Aql ; 2.99; 11000;occ; 99; 0;38350  
 13; 2650.4; 01-JUL-2009 05:54:48; Bright; 46.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 92; 0;38350  
 14; 2920.4; 01-JUL-2009 05:59:18; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38350  
 15; 3341.8; 01-JUL-2009 06:06:20; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38350

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1; 1483.3; 01-JUL-2009 20:40:45; Bright; 42.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 84; 0;38359  
 2; 2225.6; 01-JUL-2009 20:53:07; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38359  
 3; 2646.2; 01-JUL-2009 21:00:07; Bright; 40.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 81; 0;38359  
 4; 2912.3; 01-JUL-2009 21:04:34; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38359  
 5; 3335.3; 01-JUL-2009 21:11:37; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38359  
 6; 3778.7; 01-JUL-2009 21:19:00; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38359  
 7; 3874.0; 01-JUL-2009 21:20:35; Bright; 34.5; 110; 37Del Cas ; 2.68; 8900;occ; 69; 0;38359  
 8; 4265.9; 01-JUL-2009 21:27:07; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38359  
 9; 4425.8; 01-JUL-2009 21:29:47; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38359  
 10; 4684.1; 01-JUL-2009 21:34:05; Dark ; 38.0; 50; 13Alp Ari ; 2.01; 4250;occ; 76; 0;38359

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1; -521.8; 01-JUL-2009 21:47:55; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38359  
 2; 111.5; 01-JUL-2009 21:58:29; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;38360  
 3; 499.5; 01-JUL-2009 22:04:57; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38360  
 4; 615.0; 01-JUL-2009 22:06:52; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38360  
 5; 790.6; 01-JUL-2009 22:09:48; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38360  
 6; 1483.4; 01-JUL-2009 22:21:21; Bright; 41.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 83; 0;38360  
 7; 2225.1; 01-JUL-2009 22:33:42; Bright; 48.5; 168; 17Zet Aql ; 2.99; 11000;occ; 97; 0;38360  
 8; 2645.5; 01-JUL-2009 22:40:43; Bright; 44.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 88; 0;38360  
 9; 2911.6; 01-JUL-2009 22:45:09; Bright; 48.0; 144; 18Del Cyg ; 2.86; 11000;occ; 96; 0;38360  
 10; 3334.6; 01-JUL-2009 22:52:12; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38360  
 11; 3778.2; 01-JUL-2009 22:59:35; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38360  
 12; 3873.5; 01-JUL-2009 23:01:11; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38360  
 13; 4265.9; 01-JUL-2009 23:07:43; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38360  
 14; 4426.0; 01-JUL-2009 23:10:23; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38360  
 15; 4684.2; 01-JUL-2009 23:14:41; Dark ; 39.0; 50; 13Alp Ari ; 2.01; 4250;occ; 78; 0;38360

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090701\_232832\_000052442080\_00230\_38360\_8079.N1

1; -520.9; 01-JUL-2009 23:28:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38360  
 2; 112.6; 01-JUL-2009 23:39:06; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;38361  
 3; 500.5; 01-JUL-2009 23:45:34; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38361  
 4; 616.0; 01-JUL-2009 23:47:29; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38361  
 5; 791.5; 01-JUL-2009 23:50:25; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38361  
 6; 1483.5; 02-JUL-2009 00:01:57; Bright; 40.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 80; 0;38361  
 7; 2224.7; 02-JUL-2009 00:14:18; Bright; 45.0; 168; 17Zet Aql ; 2.99; 11000;occ; 90; 0;38361  
 8; 2645.1; 02-JUL-2009 00:21:18; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;38361  
 9; 2910.7; 02-JUL-2009 00:25:44; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38361  
 10; 3334.3; 02-JUL-2009 00:32:47; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38361  
 11; 3777.9; 02-JUL-2009 00:40:11; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;38361  
 12; 3872.8; 02-JUL-2009 00:41:46; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;38361  
 13; 4265.7; 02-JUL-2009 00:48:19; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;38361  
 14; 4425.9; 02-JUL-2009 00:50:59; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38361  
 15; 4684.8; 02-JUL-2009 00:55:18; Dark ; 38.5; 50; 13Alp Ari ; 2.01; 4250;occ; 77; 0;38361

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20090701\_061341\_000037752080\_00220\_38350\_4350.N1

1; -2252.5; 01-JUL-2009 06:13:41; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38350  
 2; -2159.4; 01-JUL-2009 06:15:14; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;38350  
 3; -1769.4; 01-JUL-2009 06:21:44; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;38350  
 4; -1610.7; 01-JUL-2009 06:24:23; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38350  
 5; -1354.8; 01-JUL-2009 06:28:39; Dark ; 39.5; 50; 13Alp Ari ; 2.01; 4250;occ; 79; 0;38350  
 6; -529.8; 01-JUL-2009 06:42:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38350  
 7; 102.5; 01-JUL-2009 06:52:56; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;38351  
 8; 491.1; 01-JUL-2009 06:59:25; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38351  
 9; 607.2; 01-JUL-2009 07:01:21; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38351  
 10; 781.0; 01-JUL-2009 07:04:15; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38351  
 11; 1481.9; 01-JUL-2009 07:15:56; Bright; 41.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 83; 0;38351

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1; 2229.8; 01-JUL-2009 07:28:24; Bright; 50.0; 168; 17Zet Aql ; 2.99; 11000;occ; 100; 0;38351  
 2; 2649.8; 01-JUL-2009 07:35:24; Bright; 46.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 93; 0;38351  
 3; 2919.2; 01-JUL-2009 07:39:53; Bright; 49.5; 144; 18Del Cyg ; 2.86; 11000;occ; 99; 0;38351  
 4; 3340.9; 01-JUL-2009 07:46:55; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38351  
 5; 3782.9; 01-JUL-2009 07:54:17; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38351  
 6; 3876.3; 01-JUL-2009 07:55:50; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38351  
 7; 4266.5; 01-JUL-2009 08:02:20; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38351  
 8; 4425.4; 01-JUL-2009 08:04:59; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38351  
 9; 4681.5; 01-JUL-2009 08:09:15; Dark ; 39.0; 50; 13Alp Ari ; 2.01; 4250;occ; 78; 0;38351  
 10; 5507.0; 01-JUL-2009 08:23:01; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38351  
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 12; 6527.9; 01-JUL-2009 08:40:02; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38351  
 13; 6643.9; 01-JUL-2009 08:41:58; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38351  
 14; 6817.9; 01-JUL-2009 08:44:52; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38351  
 15; 7518.0; 01-JUL-2009 08:56:32; Bright; 41.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 83; 0;38351

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 2; -1609.7; 02-JUL-2009 02:31:35; Dark ; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;38362  
 3; -1350.7; 02-JUL-2009 02:35:54; Dark ; 40.5; 50; 13Alp Ari ; 2.01; 4250;occ; 81; 0;38362  
 4; -519.1; 02-JUL-2009 02:49:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38362  
 5; 114.5; 02-JUL-2009 03:00:19; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;38363  
 6; 502.5; 02-JUL-2009 03:06:47; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;38363  
 7; 617.7; 02-JUL-2009 03:08:42; Dark ; 52.5; 31; Alp Gru ; 1.73; 15200;occ; 105; 0;38363

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8; 793.7; 02-JUL-2009 03:11:39; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38363
9; 1484.2; 02-JUL-2009 03:23:09; Bright; 51.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 102; 0;38363
10; 2223.5; 02-JUL-2009 03:35:28; Bright; 70.0; 168; 17Zet Aql ; 2.99; 11000;occ; 140; 0;38363
11; 2644.2; 02-JUL-2009 03:42:29; Bright; 40.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 81; 0;38363
12; 2909.2; 02-JUL-2009 03:46:54; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38363
13; 3333.0; 02-JUL-2009 03:53:58; Bright; 52.0; 89; 5Alp Cep ; 2.45; 8000;occ; 104; 0;38363
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3; -1770.1; 02-JUL-2009 04:09:31; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38363
4; -1609.7; 02-JUL-2009 04:12:11; Dark ; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;38363
5; -1350.3; 02-JUL-2009 04:16:30; Dark ; 41.0; 50; 13Alp Ari ; 2.01; 4250;occ; 82; 0;38363
6; -518.2; 02-JUL-2009 04:30:23; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38363
7; 115.7; 02-JUL-2009 04:40:57; Dark ; 59.0; 84; Alp Phe ; 2.40; 4500;occ; 118; 0;38364
8; 503.4; 02-JUL-2009 04:47:24; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38364
9; 618.6; 02-JUL-2009 04:49:19; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38364
10; 794.8; 02-JUL-2009 04:52:16; Dark ; 58.0; 172; Gam Gru ; 3.00; 13100;occ; 116; 0;38364
11; 1484.6; 02-JUL-2009 05:03:45; Bright; 43.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 86; 0;38364
12; 2223.0; 02-JUL-2009 05:16:04; Bright; 46.0; 168; 17Zet Aql ; 2.99; 11000;occ; 92; 0;38364
13; 2643.7; 02-JUL-2009 05:23:04; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;38364
14; 2908.3; 02-JUL-2009 05:27:29; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38364
15; 3332.3; 02-JUL-2009 05:34:33; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38364
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2; -2163.6; 02-JUL-2009 05:43:33; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38364
3; -1770.4; 02-JUL-2009 05:50:06; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38364
4; -1609.5; 02-JUL-2009 05:52:47; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38364
5; -1350.0; 02-JUL-2009 05:57:07; Dark ; 41.0; 50; 13Alp Ari ; 2.01; 4250;occ; 82; 0;38364
6; -517.2; 02-JUL-2009 06:11:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38364
7; 116.6; 02-JUL-2009 06:21:33; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;38365
8; 504.2; 02-JUL-2009 06:28:01; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38365
9; 619.6; 02-JUL-2009 06:29:56; Dark ; 58.0; 31; Alp Gru ; 1.73; 15200;occ; 116; 0;38365
10; 795.8; 02-JUL-2009 06:32:53; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;38365
11; 1484.7; 02-JUL-2009 06:44:21; Bright; 44.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 88; 0;38365
12; 2222.5; 02-JUL-2009 06:56:39; Bright; 49.0; 168; 17Zet Aql ; 2.99; 11000;occ; 98; 0;38365
13; 2643.5; 02-JUL-2009 07:03:40; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;38365
14; 2907.5; 02-JUL-2009 07:08:04; Bright; 49.5; 144; 18Del Cyg ; 2.86; 11000;occ; 99; 0;38365
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8; 2854.4; 07-JUL-2009 01:07:54; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38433
9; 3286.6; 07-JUL-2009 01:15:06; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38433
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11; 3849.5; 07-JUL-2009 01:24:29; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;38433
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13; 4712.1; 07-JUL-2009 01:38:52; Dark ; 45.0; 50; 13Alp Ari ; 2.01; 4250;occ; 90; 0;38433
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3; 569.6; 07-JUL-2009 02:10:25; Dark ; 64.0; 63; Bet Gru ; 2.15; 2800;occ; 128; 0;38434
4; 678.8; 07-JUL-2009 02:12:14; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;38434
5; 863.9; 07-JUL-2009 02:15:19; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38434
6; 2192.5; 07-JUL-2009 02:37:28; Bright; 48.0; 168; 17Zet Aql ; 2.99; 11000;occ; 96; 0;38434
7; 2853.9; 07-JUL-2009 02:48:29; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38434
8; 3286.0; 07-JUL-2009 02:55:41; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;38434
9; 3736.5; 07-JUL-2009 03:03:12; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;38434
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2; -1776.8; 07-JUL-2009 03:11:55; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;38434
3; -1323.2; 07-JUL-2009 03:19:28; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;38434
4; -1016.3; 07-JUL-2009 03:24:35; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38434
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7; 570.4; 07-JUL-2009 03:51:02; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;38435
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3; -1776.9; 07-JUL-2009 04:52:30; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;38435
4; -1322.9; 07-JUL-2009 05:00:05; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;38435
5; -1015.7; 07-JUL-2009 05:05:12; Dark ; 40.0; 94; 92Alp Cet ; 2.53; 3100;occ; 80; 0;38435
6; -446.5; 07-JUL-2009 05:14:41; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38435
7; 192.5; 07-JUL-2009 05:25:20; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;38436
8; 571.2; 07-JUL-2009 05:31:39; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;38436
9; 680.6; 07-JUL-2009 05:33:28; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38436
10; 865.7; 07-JUL-2009 05:36:33; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38436
11; 2192.0; 07-JUL-2009 05:58:39; Bright; 64.0; 168; 17Zet Aql ; 2.99; 11000;occ; 128; 0;38436
12; 2852.5; 07-JUL-2009 06:09:40; Bright; 43.5; 144; 18Del Cyg ; 2.86; 11000;occ; 87; 0;38436
13; 3284.9; 07-JUL-2009 06:16:52; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38436
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2; 2188.7; 07-JUL-2009 21:03:59; Bright; 42.0; 168; 17Zet Aql ; 2.99; 11000;occ; 84; 0;38445
3; 2845.9; 07-JUL-2009 21:14:57; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;38445
4; 3278.9; 07-JUL-2009 21:22:10; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38445
5; 3729.8; 07-JUL-2009 21:29:41; Bright; 64.0; 74; 11Bet Cas ; 2.27; 6600;occ; 128; 0;38445
6; 3845.2; 07-JUL-2009 21:31:36; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;38445
7; 4257.8; 07-JUL-2009 21:38:29; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;38445
8; 4431.7; 07-JUL-2009 21:41:22; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;38445
9; 4717.4; 07-JUL-2009 21:46:08; Dark ; 39.0; 50; 13Alp Ari ; 2.01; 4250;occ; 78; 0;38445
10; 5025.5; 07-JUL-2009 21:51:16; Dark ; 41.0; 94; 92Alp Cet ; 2.53; 3100;occ; 82; 0;38445

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 3; 580.5; 07-JUL-2009 22:17:47; Dark ; 54.0; 63; Bet Gru ; 2.15; 2800;occ; 108; 0;38446  
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 5; 875.0; 07-JUL-2009 22:22:42; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;38446  
 6; 2188.5; 07-JUL-2009 22:44:35; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38446  
 7; 2845.2; 07-JUL-2009 22:55:32; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38446  
 8; 3278.4; 07-JUL-2009 23:02:45; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38446  
 9; 3729.4; 07-JUL-2009 23:10:16; Bright; 54.5; 74; 11Bet Cas ; 2.27; 6600;occ; 109; 0;38446  
 10; 3844.7; 07-JUL-2009 23:12:11; Bright; 40.0; 110; 37Del Cas ; 2.68; 8900;occ; 80; 0;38446  
 11; 4257.7; 07-JUL-2009 23:19:04; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;38446  
 12; 4431.8; 07-JUL-2009 23:21:58; Dark ; 43.5; 173; 4Bet Tri ; 3.00; 8900;occ; 87; 0;38446  
 13; 4717.8; 07-JUL-2009 23:26:44; Dark ; 30.0; 50; 13Alp Ari ; 2.01; 4250;occ; 60; 0;38446  
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 3; 581.4; 07-JUL-2009 23:58:24; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38447  
 4; 689.4; 08-JUL-2009 00:00:12; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38447  
 5; 875.9; 08-JUL-2009 00:03:18; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;38447  
 6; 2188.0; 08-JUL-2009 00:25:10; Bright; 41.5; 168; 17Zet Aql ; 2.99; 11000;occ; 83; 0;38447  
 7; 2844.6; 08-JUL-2009 00:36:07; Bright; 44.5; 144; 18Del Cyg ; 2.86; 11000;occ; 89; 0;38447  
 8; 3277.8; 08-JUL-2009 00:43:20; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38447  
 9; 3728.8; 08-JUL-2009 00:50:51; Bright; 47.5; 74; 11Bet Cas ; 2.27; 6600;occ; 95; 0;38447  
 10; 3844.4; 08-JUL-2009 00:52:47; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;38447  
 11; 4257.7; 08-JUL-2009 00:59:40; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38447  
 12; 4431.9; 08-JUL-2009 01:02:34; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;38447  
 13; 4718.2; 08-JUL-2009 01:07:21; Dark ; 30.0; 50; 13Alp Ari ; 2.01; 4250;occ; 60; 0;38447  
 14; 5026.5; 08-JUL-2009 01:12:29; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38447

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 3; -1777.0; 07-JUL-2009 06:33:06; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;38436  
 4; -1604.9; 07-JUL-2009 06:35:58; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;38436  
 5; -1322.4; 07-JUL-2009 06:40:41; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;38436  
 6; -1015.2; 07-JUL-2009 06:45:48; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38436  
 7; -445.4; 07-JUL-2009 06:55:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38436  
 8; 193.7; 07-JUL-2009 07:05:57; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;38437  
 9; 572.4; 07-JUL-2009 07:12:16; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38437  
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 3; 3284.4; 07-JUL-2009 07:57:28; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38437  
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 5; 3848.1; 07-JUL-2009 08:06:51; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38437  
 6; 4259.0; 07-JUL-2009 08:13:42; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38437  
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 9; 5021.3; 07-JUL-2009 08:26:25; Dark ; 39.5; 94; 92Alp Cet ; 2.53; 3100;occ; 79; 0;38437  
 10; 5591.6; 07-JUL-2009 08:35:55; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38437  
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 13; 6718.0; 07-JUL-2009 08:54:41; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38437  
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 3; 3283.7; 07-JUL-2009 09:38:03; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38438  
 4; 3734.0; 07-JUL-2009 09:45:33; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38438  
 5; 3847.9; 07-JUL-2009 09:47:27; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38438  
 6; 4258.8; 07-JUL-2009 09:54:18; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;38438  
 7; 4431.1; 07-JUL-2009 09:57:10; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38438  
 8; 4714.5; 07-JUL-2009 10:01:54; Dark ; 49.0; 50; 13Alp Ari ; 2.01; 4250;occ; 98; 0;38438  
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 10; 5592.6; 07-JUL-2009 10:16:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38438

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12; 6610.1; 07-JUL-2009 10:33:29; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38438
13; 6718.8; 07-JUL-2009 10:35:18; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38438
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 3; 3733.6; 07-JUL-2009 11:26:09; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38439
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11; 6611.0; 07-JUL-2009 12:14:06; Dark ; 67.0; 63; Bet Gru ; 2.15; 2800;occ; 134; 0;38439
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12; 6611.9; 07-JUL-2009 13:54:43; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38440
13; 6720.4; 07-JUL-2009 13:56:31; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38440
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 3; 3281.7; 07-JUL-2009 14:39:49; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38441
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3; 3265.1; 09-JUL-2009 10:15:06; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38467
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5; 3837.0; 09-JUL-2009 10:24:38; Bright; 58.0; 110; 37Del Cas ; 2.68; 8900;occ; 116; 0;38467
6; 4255.1; 09-JUL-2009 10:31:36; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;38467
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8; 5037.8; 09-JUL-2009 10:44:39; Dark ; 43.0; 94; 92Alp Cet ; 2.53; 3100;occ; 86; 0;38467
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6; 4255.0; 09-JUL-2009 12:12:12; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;38468
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9; 5626.4; 09-JUL-2009 12:35:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38468
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13; 4121.8; 15-JUL-2009 00:37:17; Bright; 40.5; 35; 33Alp Per ; 1.79; 6250;occ; 81; 0;38547
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 8; 4122.1; 14-JUL-2009 17:54:54; Bright; 40.0; 35; 33Alp Per ; 1.79; 6250;occ; 80; 0;38543
 9; 4242.4; 14-JUL-2009 17:56:54; Bright; 26.0; 73; 57Gam1And ; 2.26; 13100;occ; 52; 0;38543
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11; 5087.4; 14-JUL-2009 18:10:59; Dark ; 65.0; 94; 92Alp Cet ; 2.53; 3100;occ; 130; 0;38543
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13; 6350.0; 14-JUL-2009 18:32:02; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38543
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15; 6800.8; 14-JUL-2009 18:39:32; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38543
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 9; 4122.2; 14-JUL-2009 19:35:30; Bright; 59.0; 35; 33Alp Per ; 1.79; 6250;occ; 118; 0;38544  
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 6; -944.0; 15-JUL-2009 04:14:39; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;38549  
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 11; 961.6; 15-JUL-2009 04:46:25; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38550  
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 13; 2782.0; 15-JUL-2009 05:16:45; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38550  
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 15; 3214.4; 15-JUL-2009 05:23:58; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38550  
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13; 6711.2; 15-JUL-2009 11:24:02; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38553
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 2; 2766.0; 17-JUL-2009 10:55:39; Bright; 41.0; 144; 18Del Cyg ; 2.86; 11000;occ; 82; 0;38582  
 3; 2899.5; 17-JUL-2009 10:57:52; Bright; 50.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 101; 0;38582  
 4; 3195.5; 17-JUL-2009 11:02:48; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38582  
 5; 3639.4; 17-JUL-2009 11:10:12; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38582  
 6; 3756.2; 17-JUL-2009 11:12:09; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;38582  
 7; 4035.4; 17-JUL-2009 11:16:48; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38582  
 8; 4118.0; 17-JUL-2009 11:18:11; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38582  
 9; 4296.0; 17-JUL-2009 11:21:09; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38582  
 10; 4473.1; 17-JUL-2009 11:24:06; Dark ; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0;38582  
 11; 4629.6; 17-JUL-2009 11:26:43; Dark ; 44.5; 146; 25Eta Tau ; 2.87; 15200;occ; 89; 0;38582  
 12; 5117.7; 17-JUL-2009 11:34:51; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38582  
 13; 5469.2; 17-JUL-2009 11:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38582  
 14; 6394.7; 17-JUL-2009 11:56:08; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38582  
 15; 6735.0; 17-JUL-2009 12:01:48; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38582  
 16; 6828.8; 17-JUL-2009 12:03:22; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38582  
 17; 7021.9; 17-JUL-2009 12:06:35; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38582

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 2;-2279.7; 17-JUL-2009 11:12:09; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;38582  
 3;-2000.5; 17-JUL-2009 11:16:48; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38582  
 4;-1917.8; 17-JUL-2009 11:18:11; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38582  
 5;-1739.8; 17-JUL-2009 11:21:09; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;38582  
 6;-1562.8; 17-JUL-2009 11:24:06; Dark ; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0;38582  
 7;-1406.3; 17-JUL-2009 11:26:43; Dark ; 44.5; 146; 25Eta Tau ; 2.87; 15200;occ; 89; 0;38582  
 8; -918.2; 17-JUL-2009 11:34:51; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38582  
 9; -566.7; 17-JUL-2009 11:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38582  
 10; 358.9; 17-JUL-2009 11:56:08; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38583  
 11; 699.2; 17-JUL-2009 12:01:48; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38583  
 12; 793.0; 17-JUL-2009 12:03:22; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38583  
 13; 986.0; 17-JUL-2009 12:06:35; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38583

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 2; 2765.4; 17-JUL-2009 12:36:14; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38583  
 3; 2898.7; 17-JUL-2009 12:38:28; Bright; 50.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 101; 0;38583  
 4; 3195.2; 17-JUL-2009 12:43:24; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38583  
 5; 3638.7; 17-JUL-2009 12:50:48; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38583  
 6; 3755.6; 17-JUL-2009 12:52:44; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;38583  
 7; 4035.5; 17-JUL-2009 12:57:24; Bright; 62.0; 160; 23Gam Per ; 2.93; 4700;occ; 124; 0;38583  
 8; 4118.0; 17-JUL-2009 12:58:47; Bright; 41.5; 35; 33Alp Per ; 1.79; 6250;occ; 83; 0;38583  
 9; 4295.9; 17-JUL-2009 13:01:45; Bright; 49.5; 79; 26Bet Per ; 2.31; 13100;occ; 99; 0;38583  
 10; 4473.2; 17-JUL-2009 13:04:42; Dark ; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;38583  
 11; 4629.9; 17-JUL-2009 13:07:19; Dark ; 42.5; 146; 25Eta Tau ; 2.87; 15200;occ; 85; 0;38583  
 12; 5118.5; 17-JUL-2009 13:15:27; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38583  
 13; 5470.2; 17-JUL-2009 13:21:19; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38583  
 14; 6395.8; 17-JUL-2009 13:36:45; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38583  
 15; 6735.9; 17-JUL-2009 13:42:25; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38583  
 16; 6829.6; 17-JUL-2009 13:43:58; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38583  
 17; 7022.6; 17-JUL-2009 13:47:11; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 0;38583

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 2; 2764.9; 17-JUL-2009 14:16:50; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;38584  
 3; 2897.8; 17-JUL-2009 14:19:03; Bright; 50.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 100; 0;38584  
 4; 3194.8; 17-JUL-2009 14:23:59; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38584  
 5; 3638.2; 17-JUL-2009 14:31:23; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38584  
 6; 3755.1; 17-JUL-2009 14:33:20; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;38584  
 7; 4035.3; 17-JUL-2009 14:38:00; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;38584



8; 4117.9; 17-JUL-2009 14:39:23; Bright; 60.0; 35; 33Alp Per ; 1.79; 6250;occ; 120; 0;38584  
 9; 4296.3; 17-JUL-2009 14:42:21; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38584  
 10; 4473.4; 17-JUL-2009 14:45:18; Dark ; 41.0; 150; 44Zet Per ; 2.89; 28000;occ; 82; 0;38584  
 11; 4630.3; 17-JUL-2009 14:47:55; Dark ; 41.0; 146; 25Eta Tau ; 2.87; 15200;occ; 82; 0;38584  
 12; 5119.3; 17-JUL-2009 14:56:04; Dark ; 72.5; 94; 92Alp Cet ; 2.53; 3100;occ; 145; 0;38584  
 13; 5471.2; 17-JUL-2009 15:01:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38584  
 14; 6397.1; 17-JUL-2009 15:17:22; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38584  
 15; 6736.7; 17-JUL-2009 15:23:01; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38584  
 16; 6829.9; 17-JUL-2009 15:24:35; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38584  
 17; 7023.4; 17-JUL-2009 15:27:48; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38584

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 2; 2764.4; 17-JUL-2009 15:57:25; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;38585  
 3; 2897.2; 17-JUL-2009 15:59:38; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38585  
 4; 3194.1; 17-JUL-2009 16:04:35; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38585  
 5; 3637.4; 17-JUL-2009 16:11:58; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38585  
 6; 3754.4; 17-JUL-2009 16:13:55; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;38585  
 7; 4035.3; 17-JUL-2009 16:18:36; Bright; 50.0; 160; 23Gam Per ; 2.93; 4700;occ; 100; 0;38585  
 8; 4117.9; 17-JUL-2009 16:19:59; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38585  
 9; 4296.1; 17-JUL-2009 16:22:57; Bright; 49.0; 79; 26Bet Per ; 2.31; 13100;occ; 98; 0;38585  
 10; 4473.3; 17-JUL-2009 16:25:54; Dark ; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;38585  
 11; 4630.4; 17-JUL-2009 16:28:31; Dark ; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;38585  
 12; 5120.1; 17-JUL-2009 16:36:41; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38585  
 13; 5472.2; 17-JUL-2009 16:42:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38585  
 14; 6398.2; 17-JUL-2009 16:57:59; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38585  
 15; 6737.7; 17-JUL-2009 17:03:38; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;38585  
 16; 6831.1; 17-JUL-2009 17:05:12; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38585  
 17; 7024.1; 17-JUL-2009 17:08:25; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38585

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 2; 2763.9; 17-JUL-2009 17:38:01; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38586  
 3; 2896.2; 17-JUL-2009 17:40:13; Bright; 48.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 97; 0;38586  
 4; 3193.6; 17-JUL-2009 17:45:10; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38586  
 5; 3636.7; 17-JUL-2009 17:52:33; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38586  
 6; 3753.6; 17-JUL-2009 17:54:30; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;38586  
 7; 4034.9; 17-JUL-2009 17:59:12; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38586  
 8; 4117.8; 17-JUL-2009 18:00:34; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38586  
 9; 4295.9; 17-JUL-2009 18:03:33; Bright; 47.0; 79; 26Bet Per ; 2.31; 13100;occ; 94; 0;38586  
 10; 4473.3; 17-JUL-2009 18:06:30; Dark ; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;38586  
 11; 4630.5; 17-JUL-2009 18:09:07; Dark ; 43.5; 146; 25Eta Tau ; 2.87; 15200;occ; 87; 0;38586  
 12; 5121.0; 17-JUL-2009 18:17:18; Dark ; 60.0; 94; 92Alp Cet ; 2.53; 3100;occ; 120; 0;38586  
 13; 5473.2; 17-JUL-2009 18:23:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38586  
 14; 6399.4; 17-JUL-2009 18:38:36; Dark ; 58.5; 84; Alp Phe ; 2.40; 4500;occ; 117; 0;38586  
 15; 6738.6; 17-JUL-2009 18:44:15; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;38586  
 16; 6831.7; 17-JUL-2009 18:45:48; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38586  
 17; 7024.7; 17-JUL-2009 18:49:01; Dark ; 49.5; 172; Gam Gru ; 3.00; 13100;occ; 99; 0;38586

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 3; 705.6; 18-JUL-2009 01:26:42; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38591  
 4; 798.4; 18-JUL-2009 01:28:15; Dark ; 56.5; 31; Alp Gru ; 1.73; 15200;occ; 113; 0;38591  
 5; 991.7; 18-JUL-2009 01:31:28; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38591  
 6; 2153.4; 18-JUL-2009 01:50:50; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;38591  
 7; 2761.6; 18-JUL-2009 02:00:58; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38591  
 8; 2892.2; 18-JUL-2009 02:03:08; Bright; 48.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 96; 0;38591  
 9; 3190.7; 18-JUL-2009 02:08:07; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38591  
 10; 3633.0; 18-JUL-2009 02:15:29; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38591  
 11; 3750.4; 18-JUL-2009 02:17:27; Bright; 44.0; 68; 18Alp Cas ; 2.22; 4500;occ; 88; 0;38591  
 12; 4034.1; 18-JUL-2009 02:22:10; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38591  
 13; 4117.1; 18-JUL-2009 02:23:33; Bright; 60.5; 35; 33Alp Per ; 1.79; 6250;occ; 121; 0;38591

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 2; -1740.2; 18-JUL-2009 02:26:32; Bright; 48.5; 79; 26Bet Per ; 2.31; 13100;occ; 97; 0;38591  
 3; -1561.9; 18-JUL-2009 02:29:30; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38591  
 4; -910.6; 18-JUL-2009 02:40:21; Dark ; 62.0; 94; 92Alp Cet ; 2.53; 3100;occ; 124; 0;38591  
 5; -557.9; 18-JUL-2009 02:46:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38591  
 6; 369.2; 18-JUL-2009 03:01:41; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38592  
 7; 706.5; 18-JUL-2009 03:07:19; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;38592

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10; 2153.3; 18-JUL-2009 03:31:25; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;38592
11; 2761.3; 18-JUL-2009 03:41:33; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38592
12; 2891.3; 18-JUL-2009 03:43:43; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38592
13; 3190.1; 18-JUL-2009 03:48:42; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38592
14; 3632.4; 18-JUL-2009 03:56:05; Bright; 6.0; 74; 11Bet Cas ; 2.27; 6600;occ; 12; 0;38592
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2;-2286.5; 18-JUL-2009 03:58:02; Bright; 43.0; 68; 18Alp Cas ; 2.22; 4500;occ; 86; 0;38592
3;-2002.2; 18-JUL-2009 04:02:46; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;38592
4;-1919.1; 18-JUL-2009 04:04:09; Bright; 42.5; 35; 33Alp Per ; 1.79; 6250;occ; 85; 0;38592
5;-1740.2; 18-JUL-2009 04:07:08; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38592
6;-1561.8; 18-JUL-2009 04:10:06; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38592
7; -910.0; 18-JUL-2009 04:20:58; Dark ; 64.0; 94; 92Alp Cet ; 2.53; 3100;occ; 128; 0;38592
8; -556.8; 18-JUL-2009 04:26:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38592
9; 370.3; 18-JUL-2009 04:42:18; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;38593
10; 707.4; 18-JUL-2009 04:47:56; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38593
11; 799.7; 18-JUL-2009 04:49:28; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38593
12; 993.1; 18-JUL-2009 04:52:41; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 0;38593
13; 2153.1; 18-JUL-2009 05:12:01; Bright; 37.5; 168; 17Zet Aql ; 2.99; 11000;occ; 75; 0;38593
14; 2760.8; 18-JUL-2009 05:22:09; Bright; 40.5; 144; 18Del Cyg ; 2.86; 11000;occ; 81; 0;38593
15; 2890.5; 18-JUL-2009 05:24:19; Bright; 48.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 97; 0;38593
16; 3189.6; 18-JUL-2009 05:29:18; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38593
17; 3631.6; 18-JUL-2009 05:36:40; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;38593
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2;-2287.1; 18-JUL-2009 05:38:37; Bright; 43.0; 68; 18Alp Cas ; 2.22; 4500;occ; 86; 0;38593
3;-2002.4; 18-JUL-2009 05:43:22; Bright; 42.5; 160; 23Gam Per ; 2.93; 4700;occ; 85; 0;38593
4;-1919.2; 18-JUL-2009 05:44:45; Bright; 55.0; 35; 33Alp Per ; 1.79; 6250;occ; 110; 0;38593
5;-1740.4; 18-JUL-2009 05:47:44; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38593
6;-1561.7; 18-JUL-2009 05:50:42; Dark ; 46.5; 150; 44Zet Per ; 2.89; 28000;occ; 93; 0;38593
7; -909.1; 18-JUL-2009 06:01:35; Dark ; 60.0; 94; 92Alp Cet ; 2.53; 3100;occ; 120; 0;38593
8; -555.8; 18-JUL-2009 06:07:28; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38593
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6; 3669.4; 24-JUL-2009 07:29:23; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38680
7; 4013.7; 24-JUL-2009 07:35:07; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38680
8; 4103.7; 24-JUL-2009 07:36:37; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38680
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14; 5577.5; 24-JUL-2009 08:01:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38680

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17; 6893.3; 24-JUL-2009 08:23:07; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38680
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12; 4751.8; 24-JUL-2009 09:28:01; Dark ; 50.5; 13; 87Alp Tau ; 0.87; 3800;occ; 101; 0;38681
13; 5357.4; 24-JUL-2009 09:38:07; Dark ; 49.0; 165; 34Gam Eri ; 2.95; 3200;occ; 98; 0;38681
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16; 6508.4; 24-JUL-2009 09:57:18; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38681
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13; 5358.1; 24-JUL-2009 11:18:44; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;38682
14; 5579.9; 24-JUL-2009 11:22:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38682
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17; 6894.4; 24-JUL-2009 11:44:20; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38682
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 3; 2826.3; 24-JUL-2009 12:17:08; Bright; 44.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 88; 0;38683
 4; 3141.4; 24-JUL-2009 12:22:23; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38683
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13; 5358.8; 24-JUL-2009 12:59:20; Dark ; 49.5; 165; 34Gam Eri ; 2.95; 3200;occ; 99; 0;38683
14; 5581.1; 24-JUL-2009 13:03:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38683
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17; 6895.0; 24-JUL-2009 13:24:56; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;38683
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 3; 2825.6; 24-JUL-2009 13:57:43; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38684
 4; 3563.9; 24-JUL-2009 14:10:01; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38684
 5; 3666.8; 24-JUL-2009 14:11:44; Bright; 51.5; 76; 27Gam Cas ; 2.30; 30000;occ; 103; 0;38684
 6; 4012.6; 24-JUL-2009 14:17:30; Bright; 65.0; 160; 23Gam Per ; 2.93; 4700;occ; 130; 0;38684

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 5; 3562.4; 24-JUL-2009 17:31:12; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38686  
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 18; 6897.5; 24-JUL-2009 20:07:23; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38687  
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17; 6902.8; 25-JUL-2009 11:12:51; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;38696
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3; 2817.6; 25-JUL-2009 11:45:22; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38697
4; 3134.4; 25-JUL-2009 11:50:39; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38697
5; 3553.7; 25-JUL-2009 11:57:38; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38697
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11; 4661.3; 25-JUL-2009 12:16:06; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38697
12; 4756.7; 25-JUL-2009 12:17:41; Dark ; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;38697
13; 5368.9; 25-JUL-2009 12:27:53; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38697
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3; 2817.0; 25-JUL-2009 13:25:57; Bright; 58.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 117; 0;38698
4; 3133.9; 25-JUL-2009 13:31:14; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38698
5; 3552.9; 25-JUL-2009 13:38:13; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38698
6; 4008.8; 25-JUL-2009 13:45:49; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;38698
7; 4100.3; 25-JUL-2009 13:47:21; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38698

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 13; 5600.4; 25-JUL-2009 14:12:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38698  
 14; 5928.6; 25-JUL-2009 14:17:49; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38698  
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 4; 3133.4; 25-JUL-2009 15:11:50; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38699  
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 6; 3657.6; 25-JUL-2009 15:20:34; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38699  
 7; 4008.6; 25-JUL-2009 15:26:25; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38699  
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 11; 4662.1; 25-JUL-2009 15:37:18; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38699  
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 3; 2815.7; 25-JUL-2009 16:47:08; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38700  
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 9; 4287.7; 25-JUL-2009 17:11:40; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38700  
 10; 4488.9; 25-JUL-2009 17:15:01; Dark ; 50.0; 150; 44Zet Per ; 2.89; 28000;occ; 100; 0;38700  
 11; 4662.6; 25-JUL-2009 17:17:55; Dark ; 52.0; 146; 25Eta Tau ; 2.87; 15200;occ; 104; 0;38700  
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 4; 2814.9; 25-JUL-2009 18:27:43; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38701  
 5; 3132.6; 25-JUL-2009 18:33:01; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38701  
 6; 3550.7; 25-JUL-2009 18:39:59; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38701  
 7; 3656.2; 25-JUL-2009 18:41:44; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38701  
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6; 1063.4; 26-JUL-2009 00:40:55; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38705
7; 2068.9; 26-JUL-2009 00:57:41; Bright; 40.0; 11; 53Alp Aql ; 0.76; 8000;occ; 80; 0;38705
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5; 872.2; 26-JUL-2009 02:18:20; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38706
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