

GOMOS Daily Report 06-SEP-2009

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

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

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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 | 09SEP2009 04:46:23 |
| Data source version | GOMOS/5.00 |
| Start time of products | 06SEP2009 00:12:35 |
| Stop time of products | 06SEP2009 23:48:15 |
| Store outputs in DB | Yes |
| Nb of level 1b prods | 72 |
| Nb of prods with errors | 0 |

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

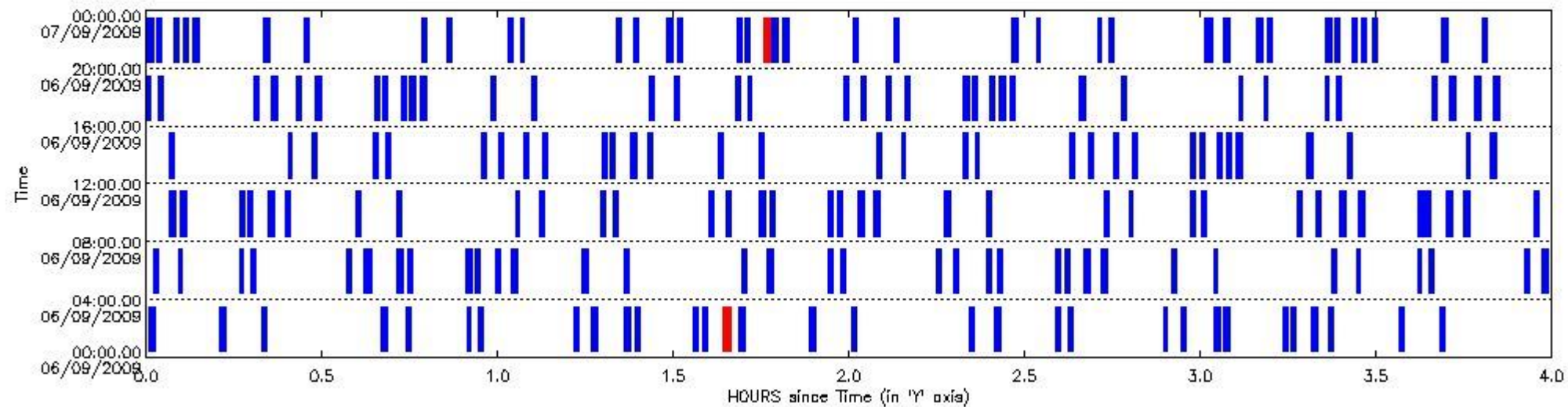
2.1 Level 0 products arrived in PCF (see template [here](#))

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 |
|----------------------|-----------|---------|-------|
| 06-SEP-2009 01:38:22 | 11AlpLep | 101 | 39306 |
| 06-SEP-2009 21:45:22 | 1ZetCMa | 177 | 39318 |

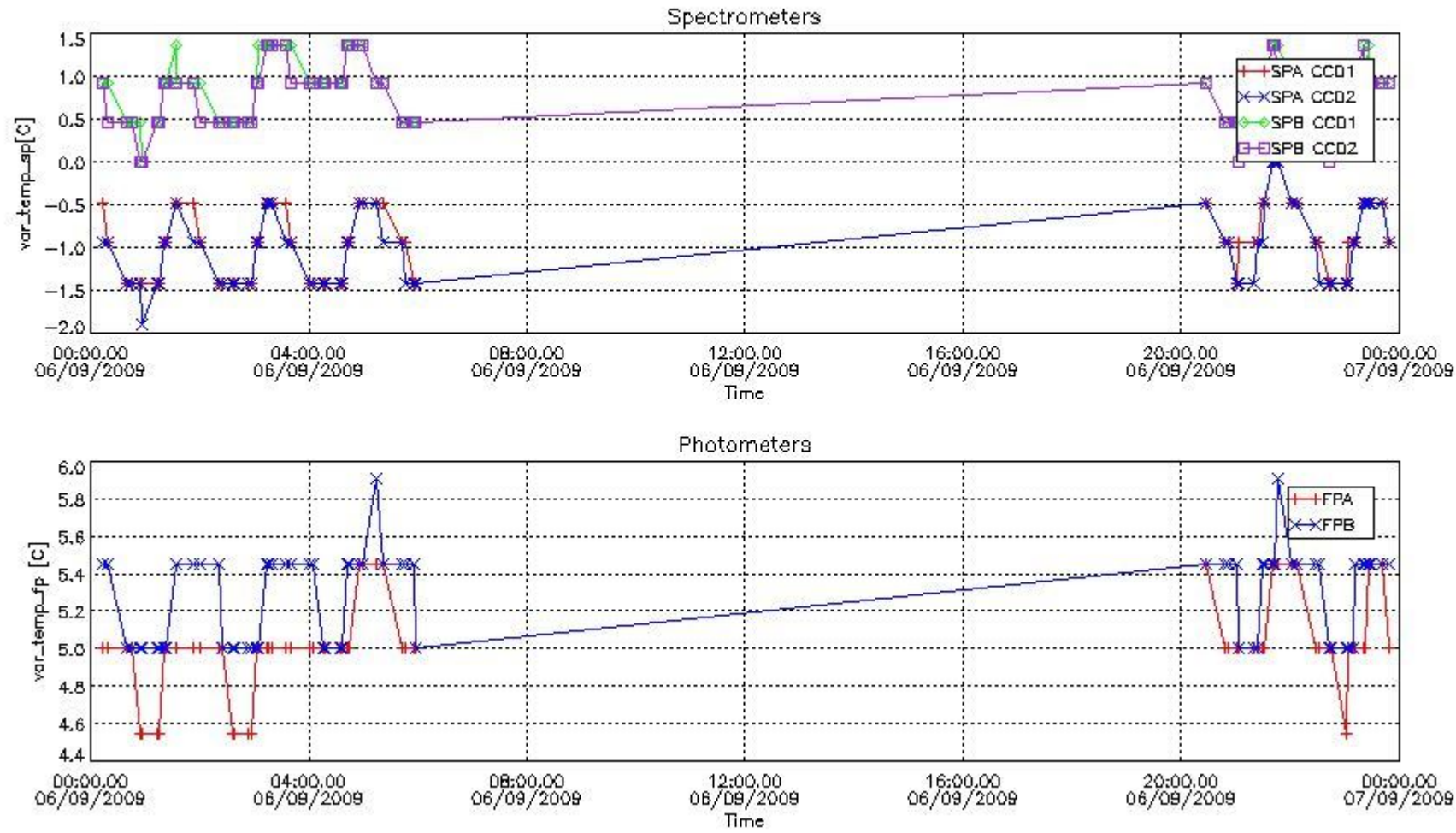
2.4 Summary of processed GOM_TRA_1P products

| Nr | Filename | UTC Start time | Limb | Duration | Star Id | Star Name | Star Mag | Star Temp | Nb Meas | Orbit | Prod. error |
|----|--|----------------------|----------------|----------|---------|-----------|----------|-----------|---------|-------|-------------|
| 1 | GOM_TRA_1PNPDE20090906_001235_000000542082_00174_39306_2274.N1 | 06-SEP-2009 00:12:35 | Dark | 53.500 | 157 | The1Eri | 2.9060 | 9300.0 | 107 | 39306 | No |
| 2 | GOM_TRA_1PNPDE20090906_001945_000000492082_00174_39306_2275.N1 | 06-SEP-2009 00:19:45 | Straylight | 48.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 97 | 39306 | No |
| 3 | GOM_TRA_1PNPDE20090906_004001_000000612082_00174_39306_2276.N1 | 06-SEP-2009 00:40:01 | Bright | 60.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 121 | 39306 | No |
| 4 | GOM_TRA_1PNPDE20090906_004414_000000602082_00174_39306_2277.N1 | 06-SEP-2009 00:44:14 | Bright | 60.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 120 | 39306 | No |
| 5 | GOM_TRA_1PNPDE20090906_005443_000000432082_00174_39306_2278.N1 | 06-SEP-2009 00:54:43 | Bright | 43.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 86 | 39306 | No |
| 6 | GOM_TRA_1PNPDE20090906_005646_000000442082_00174_39306_2279.N1 | 06-SEP-2009 00:56:46 | Bright | 43.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 87 | 39306 | No |
| 7 | GOM_TRA_1PNPDE20090906_011301_000000502082_00174_39306_2280.N1 | 06-SEP-2009 01:13:01 | Bright | 49.500 | 42 | 34Bet Aur | 1.9000 | 10200. | 99 | 39306 | No |
| 8 | GOM_TRA_1PNPDE20090906_011602_000000642082_00174_39306_2281.N1 | 06-SEP-2009 01:16:02 | Bright | 64.000 | 107 | 37The Aur | 2.6490 | 11000. | 128 | 39306 | No |
| 9 | GOM_TRA_1PNPDE20090906_012135_000000602082_00174_39306_2282.N1 | 06-SEP-2009 01:21:35 | Tw_i_and_stray | 60.000 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 120 | 39306 | No |

| | | | | | | | | | | | |
|----|--|----------------------|------------|--------|-----|-----------|---------|--------|-----|-------|----|
| 10 | GOM_TRA_1PNPDE20090906_012327_000000542082_00174_39306_2283.N1 | 06-SEP-2009 01:23:27 | Twilight | 53.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 107 | 39306 | No |
| 11 | GOM_TRA_1PNPDE20090906_013326_000000522082_00174_39306_2425.N1 | 06-SEP-2009 01:33:26 | Dark | 51.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 103 | 39306 | No |
| 12 | GOM_TRA_1PNPDE20090906_013453_000000522082_00174_39306_2426.N1 | 06-SEP-2009 01:34:53 | Dark | 51.500 | 47 | 2Bet CMa | 1.9760 | 28000. | 103 | 39306 | No |
| 13 | GOM_TRA_1PNPDE20090906_015312_000000572082_00175_39307_2427.N1 | 06-SEP-2009 01:53:12 | Dark | 56.500 | 157 | The1Eri | 2.9060 | 9300.0 | 113 | 39307 | No |
| 14 | GOM_TRA_1PNPDE20090906_020021_000000472082_00175_39307_2428.N1 | 06-SEP-2009 02:00:21 | Straylight | 47.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 94 | 39307 | No |
| 15 | GOM_TRA_1PNPDE20090906_022037_000000432082_00175_39307_2429.N1 | 06-SEP-2009 02:20:37 | Bright | 43.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 86 | 39307 | No |
| 16 | GOM_TRA_1PNPDE20090906_022450_000000572082_00175_39307_2430.N1 | 06-SEP-2009 02:24:50 | Bright | 57.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 114 | 39307 | No |
| 17 | GOM_TRA_1PNPDE20090906_023519_000000402082_00175_39307_2431.N1 | 06-SEP-2009 02:35:19 | Bright | 40.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 80 | 39307 | No |
| 18 | GOM_TRA_1PNPDE20090906_023721_000000442082_00175_39307_2432.N1 | 06-SEP-2009 02:37:21 | Bright | 44.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 88 | 39307 | No |
| 19 | GOM_TRA_1PNPDE20090906_025337_000000482082_00175_39307_2605.N1 | 06-SEP-2009 02:53:37 | Bright | 48.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 96 | 39307 | No |
| 20 | GOM_TRA_1PNPDE20090906_025638_000000572082_00175_39307_2606.N1 | 06-SEP-2009 02:56:38 | Bright | 56.500 | 107 | 37The Aur | 2.6490 | 11000. | 113 | 39307 | No |
| 21 | GOM_TRA_1PNPDE20090906_030212_000000642082_00175_39307_2607.N1 | 06-SEP-2009 03:02:12 | Twilight | 64.000 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 128 | 39307 | No |
| 22 | GOM_TRA_1PNPDE20090906_030403_000000552082_00175_39307_2608.N1 | 06-SEP-2009 03:04:03 | Twilight | 55.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 110 | 39307 | No |
| 23 | GOM_TRA_1PNPDE20090906_031403_000000522082_00175_39307_2609.N1 | 06-SEP-2009 03:14:03 | Dark | 51.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 103 | 39307 | No |
| 24 | GOM_TRA_1PNPDE20090906_031530_000000532082_00175_39307_2610.N1 | 06-SEP-2009 03:15:30 | Dark | 53.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 106 | 39307 | No |
| 25 | GOM_TRA_1PNPDE20090906_031858_000000662082_00175_39307_2611.N1 | 06-SEP-2009 03:18:58 | Dark | 65.500 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 131 | 39307 | No |
| 26 | GOM_TRA_1PNPDE20090906_033350_000000562082_00176_39308_2612.N1 | 06-SEP-2009 03:33:50 | Dark | 56.000 | 157 | The1Eri | 2.9060 | 9300.0 | 112 | 39308 | No |
| 27 | GOM_TRA_1PNPDE20090906_034058_000000472082_00176_39308_2613.N1 | 06-SEP-2009 03:40:58 | Straylight | 46.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 93 | 39308 | No |
| 28 | GOM_TRA_1PNPDE20090906_040112_000000432082_00176_39308_2614.N1 | 06-SEP-2009 04:01:12 | Bright | 43.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 86 | 39308 | No |
| 29 | GOM_TRA_1PNPDE20090906_040526_000000412082_00176_39308_2615.N1 | 06-SEP-2009 04:05:26 | Bright | 40.500 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 81 | 39308 | No |
| 30 | GOM_TRA_1PNPDE20090906_041554_000000432082_00176_39308_2616.N1 | 06-SEP-2009 04:15:54 | Bright | 42.500 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 85 | 39308 | No |
| 31 | GOM_TRA_1PNPDE20090906_041756_000000452082_00176_39308_2617.N1 | 06-SEP-2009 04:17:56 | Bright | 45.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 90 | 39308 | No |
| 32 | GOM_TRA_1PNPDE20090906_043413_000000512082_00176_39308_2755.N1 | 06-SEP-2009 04:34:13 | Bright | 50.500 | 42 | 34Bet Aur | 1.9000 | 10200. | 101 | 39308 | No |
| 33 | GOM_TRA_1PNPDE20090906_043714_000000742082_00176_39308_2756.N1 | 06-SEP-2009 04:37:14 | Bright | 74.000 | 107 | 37The Aur | 2.6490 | 11000. | 148 | 39308 | No |
| 34 | GOM_TRA_1PNPDE20090906_044248_000000612082_00176_39308_2757.N1 | 06-SEP-2009 04:42:48 | Twilight | 60.500 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 121 | 39308 | No |
| 35 | GOM_TRA_1PNPDE20090906_044440_000000522082_00176_39308_2758.N1 | 06-SEP-2009 04:44:40 | Twilight | 51.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 103 | 39308 | No |
| 36 | GOM_TRA_1PNPDE20090906_045440_000000582082_00176_39308_2759.N1 | 06-SEP-2009 04:54:40 | Dark | 57.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 115 | 39308 | No |
| 37 | GOM_TRA_1PNPDE20090906_045607_000000542082_00176_39308_2760.N1 | 06-SEP-2009 04:56:07 | Dark | 54.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 108 | 39308 | No |
| 38 | GOM_TRA_1PNPDE20090906_045935_000000592082_00176_39308_2761.N1 | 06-SEP-2009 04:59:35 | Dark | 58.500 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 117 | 39308 | No |
| 39 | GOM_TRA_1PNPDE20090906_051427_000000542082_00177_39309_2762.N1 | 06-SEP-2009 05:14:27 | Dark | 54.000 | 157 | The1Eri | 2.9060 | 9300.0 | 108 | 39309 | No |
| 40 | GOM_TRA_1PNPDE20090906_052134_000000482082_00177_39309_2763.N1 | 06-SEP-2009 05:21:34 | Straylight | 48.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 96 | 39309 | No |
| 41 | GOM_TRA_1PNPDE20090906_054148_000000442082_00177_39309_2764.N1 | 06-SEP-2009 05:41:48 | Bright | 43.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 87 | 39309 | No |
| 42 | GOM_TRA_1PNPDE20090906_054601_000000602082_00177_39309_2765.N1 | 06-SEP-2009 05:46:01 | Bright | 60.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 120 | 39309 | No |
| 43 | GOM_TRA_1PNPDE20090906_055630_000000422082_00177_39309_2766.N1 | 06-SEP-2009 05:56:30 | Bright | 42.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 84 | 39309 | No |
| 44 | GOM_TRA_1PNPDE20090906_055832_000000442082_00177_39309_2767.N1 | 06-SEP-2009 05:58:32 | Bright | 44.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 88 | 39309 | No |
| 45 | GOM_TRA_1PNPDE20090906_202703_000000482082_00186_39318_3199.N1 | 06-SEP-2009 20:27:03 | Straylight | 47.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 95 | 39318 | No |
| 46 | GOM_TRA_1PNPDE20090906_204708_000000452082_00186_39318_3200.N1 | 06-SEP-2009 20:47:08 | Bright | 44.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 89 | 39318 | No |
| 47 | GOM_TRA_1PNPDE20090906_205121_000000402082_00186_39318_3201.N1 | 06-SEP-2009 20:51:21 | Bright | 39.500 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 79 | 39318 | No |
| 48 | GOM_TRA_1PNPDE20090906_210148_000000412082_00186_39318_3202.N1 | 06-SEP-2009 21:01:48 | Bright | 41.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 82 | 39318 | No |
| 49 | GOM_TRA_1PNPDE20090906_210349_000000452082_00186_39318_3203.N1 | 06-SEP-2009 21:03:49 | Bright | 44.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 89 | 39318 | No |
| 50 | GOM_TRA_1PNPDE20090906_212010_000000532082_00186_39318_3204.N1 | 06-SEP-2009 21:20:10 | Bright | 52.500 | 42 | 34Bet Aur | 1.9000 | 10200. | 105 | 39318 | No |
| 51 | GOM_TRA_1PNPDE20090906_212313_000000522082_00186_39318_3205.N1 | 06-SEP-2009 21:23:13 | Bright | 52.000 | 107 | 37The Aur | 2.6490 | 11000. | 104 | 39318 | No |
| 52 | GOM_TRA_1PNPDE20090906_212852_000000672082_00186_39318_3206.N1 | 06-SEP-2009 21:28:52 | Twilight | 67.000 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 134 | 39318 | No |
| 53 | GOM_TRA_1PNPDE20090906_213044_000000542082_00186_39318_3207.N1 | 06-SEP-2009 21:30:44 | Twilight | 54.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 108 | 39318 | No |
| 54 | GOM_TRA_1PNPDE20090906_214047_000000532082_00186_39318_3344.N1 | 06-SEP-2009 21:40:47 | Dark | 52.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 105 | 39318 | No |
| 55 | GOM_TRA_1PNPDE20090906_214215_000000482082_00186_39318_3345.N1 | 06-SEP-2009 21:42:15 | Dark | 48.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 96 | 39318 | No |
| 56 | GOM_TRA_1PNPDE20090906_214650_000000582082_00186_39318_3346.N1 | 06-SEP-2009 21:46:50 | Dark | 58.000 | 139 | 9Bet Lep | 2.8330 | 5600.0 | 116 | 39318 | No |
| 57 | GOM_TRA_1PNPDE20090906_220038_000000562082_00187_39319_3347.N1 | 06-SEP-2009 22:00:38 | Dark | 55.500 | 157 | The1Eri | 2.9060 | 9300.0 | 111 | 39319 | No |
| 58 | GOM_TRA_1PNPDE20090906_220739_000000492082_00187_39319_3348.N1 | 06-SEP-2009 22:07:39 | Straylight | 48.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 97 | 39319 | No |
| 59 | GOM_TRA_1PNPDE20090906_222744_000000642082_00187_39319_3349.N1 | 06-SEP-2009 22:27:44 | Bright | 64.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 128 | 39319 | No |
| 60 | GOM_TRA_1PNPDE20090906_223157_000000402082_00187_39319_3350.N1 | 06-SEP-2009 22:31:57 | Bright | 40.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 80 | 39319 | No |
| 61 | GOM_TRA_1PNPDE20090906_224223_000000412082_00187_39319_3351.N1 | 06-SEP-2009 22:42:23 | Bright | 40.500 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 81 | 39319 | No |
| 62 | GOM_TRA_1PNPDE20090906_224424_000000412082_00187_39319_3352.N1 | 06-SEP-2009 22:44:24 | Bright | 41.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 82 | 39319 | No |
| 63 | GOM_TRA_1PNPDE20090906_230046_000000702082_00187_39319_3353.N1 | 06-SEP-2009 23:00:46 | Bright | 70.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 140 | 39319 | No |
| 64 | GOM_TRA_1PNPDE20090906_230349_000000752082_00187_39319_3354.N1 | 06-SEP-2009 23:03:49 | Bright | 75.000 | 107 | 37The Aur | 2.6490 | 11000. | 150 | 39319 | No |
| 65 | GOM_TRA_1PNPDE20090906_230928_000000672082_00187_39319_3355.N1 | 06-SEP-2009 23:09:28 | Twilight | 66.500 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 133 | 39319 | No |
| 66 | GOM_TRA_1PNPDE20090906_231120_000000552082_00187_39319_3356.N1 | 06-SEP-2009 23:11:20 | Twilight | 55.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 110 | 39319 | No |
| 67 | GOM_TRA_1PNPDE20090906_232123_000000612082_00187_39319_3507.N1 | 06-SEP-2009 23:21:23 | Dark | 61.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 122 | 39319 | No |
| 68 | GOM_TRA_1PNPDE20090906_232252_000000542082_00187_39319_3508.N1 | 06-SEP-2009 23:22:52 | Dark | 54.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 108 | 39319 | No |

| | | | | | | | | | | | |
|----|--|----------------------|------------|--------|-----|----------|--------|--------|-----|-------|----|
| 69 | GOM_TRA_1PNPDE20090906_232557_000000462082_00187_39319_3509.N1 | 06-SEP-2009 23:25:57 | Dark | 46.000 | 177 | 1Zet CMa | 3.0220 | 26000. | 92 | 39319 | No |
| 70 | GOM_TRA_1PNPDE20090906_232727_000000572082_00187_39319_3510.N1 | 06-SEP-2009 23:27:27 | Dark | 56.500 | 139 | 9Bet Lep | 2.8330 | 5600.0 | 113 | 39319 | No |
| 71 | GOM_TRA_1PNPDE20090906_234114_000000552082_00188_39320_3511.N1 | 06-SEP-2009 23:41:14 | Dark | 54.500 | 157 | The1Eri | 2.9060 | 9300.0 | 109 | 39320 | No |
| 72 | GOM_TRA_1PNPDE20090906_234815_000000492082_00188_39320_3512.N1 | 06-SEP-2009 23:48:15 | Straylight | 48.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 97 | 39320 | 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).

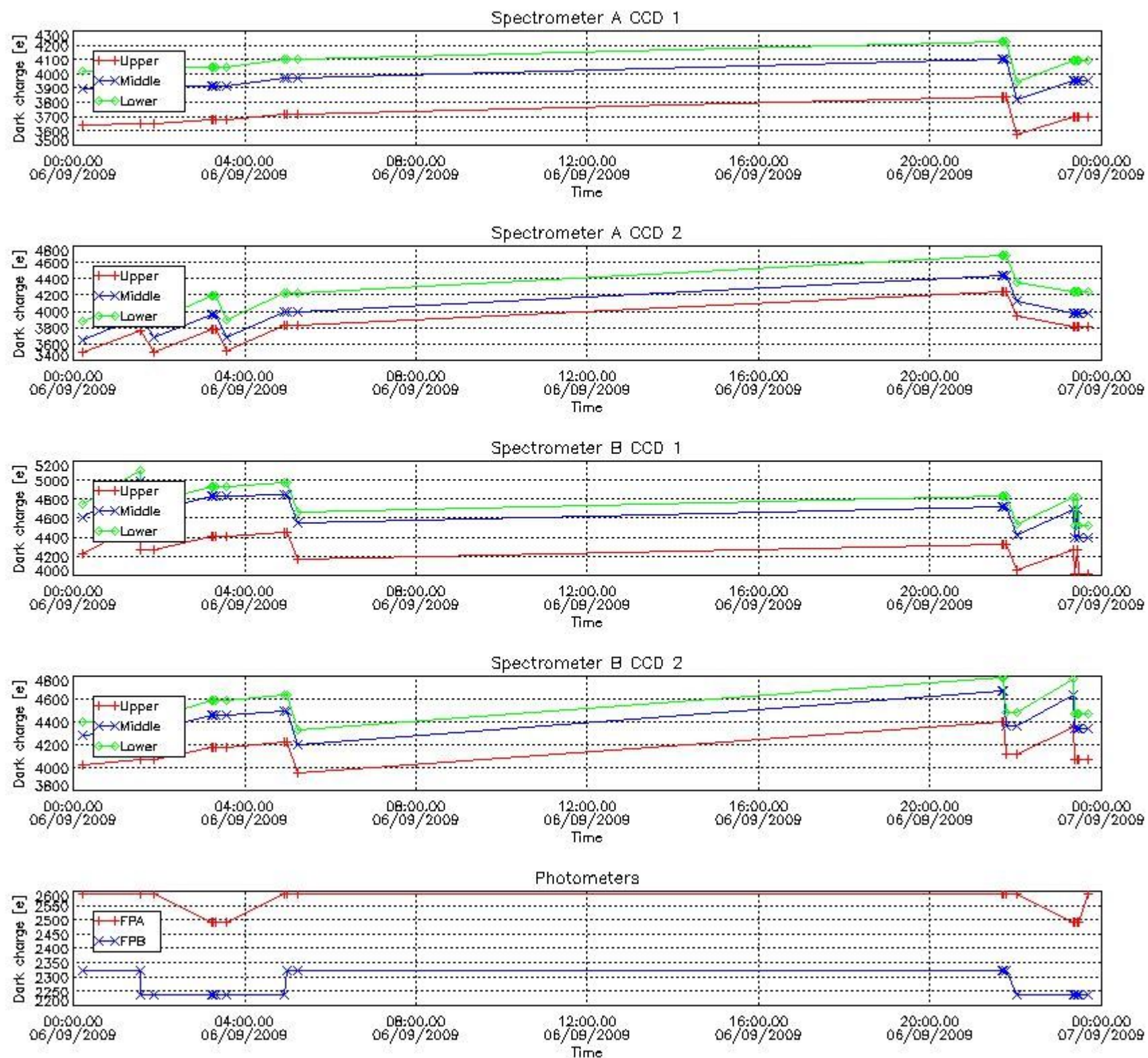
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

| Product name | DC information |
|--|----------------|
| GOM_TRA_1PNPDE20090906_202703_000000482082_00186_39318_3199.N1 | DC map used |
| GOM_TRA_1PNPDE20090906_204708_000000452082_00186_39318_3200.N1 | DC map used |
| GOM_TRA_1PNPDE20090906_205121_000000402082_00186_39318_3201.N1 | DC map used |
| GOM_TRA_1PNPDE20090906_210148_000000412082_00186_39318_3202.N1 | DC map used |
| GOM_TRA_1PNPDE20090906_210349_000000452082_00186_39318_3203.N1 | DC map used |
| GOM_TRA_1PNPDE20090906_212010_000000532082_00186_39318_3204.N1 | DC map used |

| | |
|--|-------------|
| GOM_TRA_1PNPDE20090906_212313_000000522082_00186_39318_3205.N1 | DC map used |
| GOM_TRA_1PNPDE20090906_212852_000000672082_00186_39318_3206.N1 | DC map used |
| GOM_TRA_1PNPDE20090906_213044_000000542082_00186_39318_3207.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

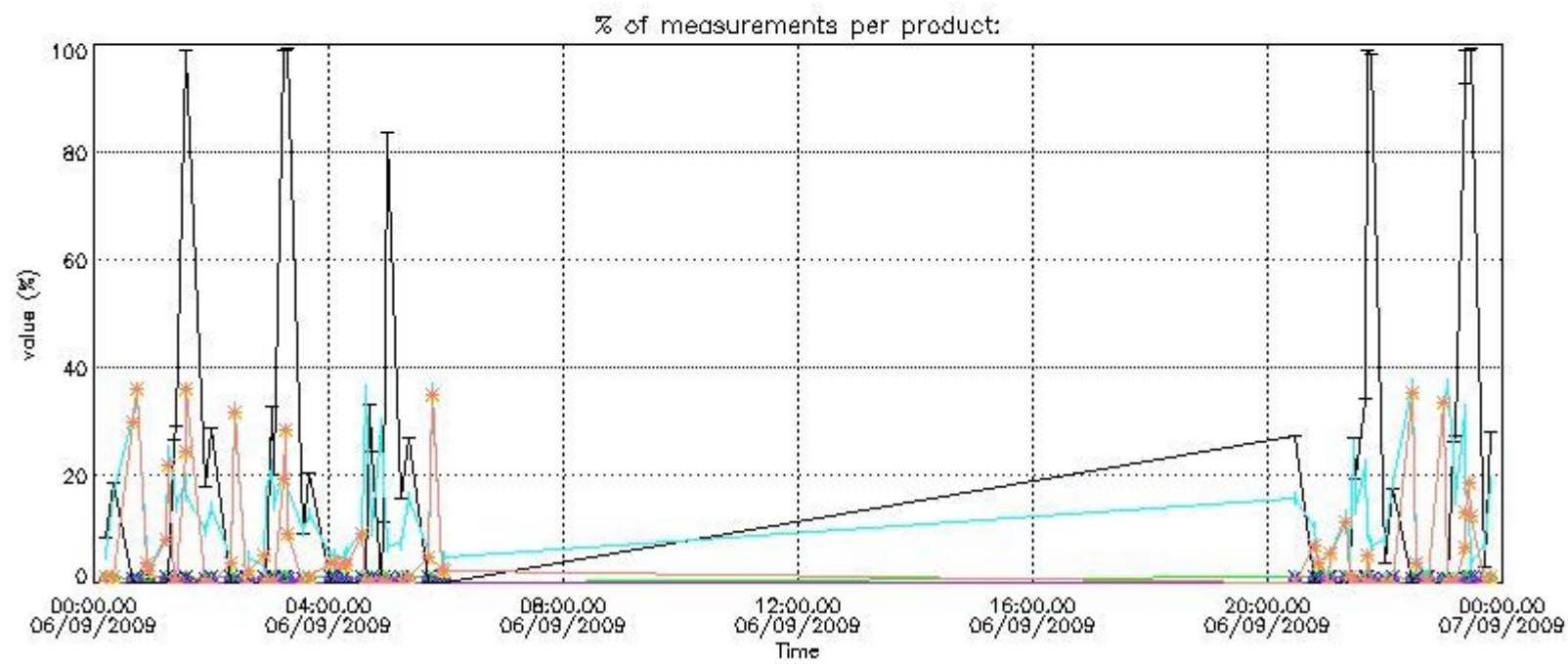
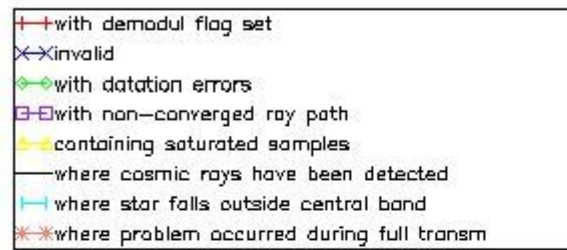
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors

(error flag in the MPH set to "0") are used.

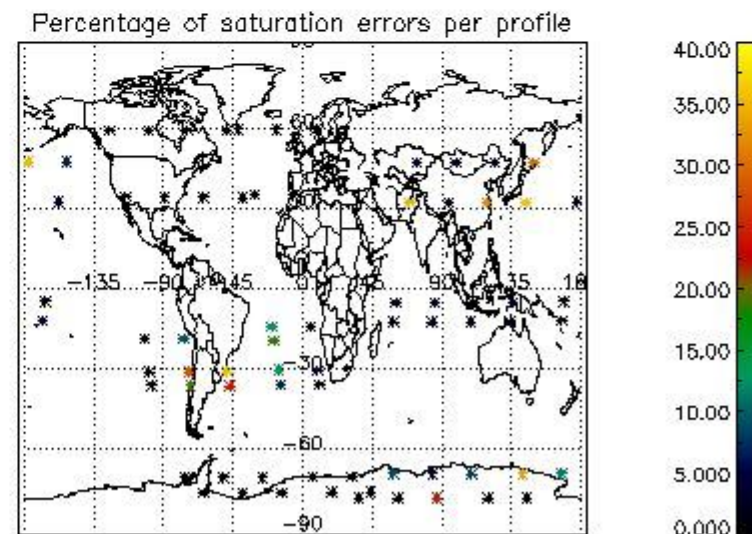
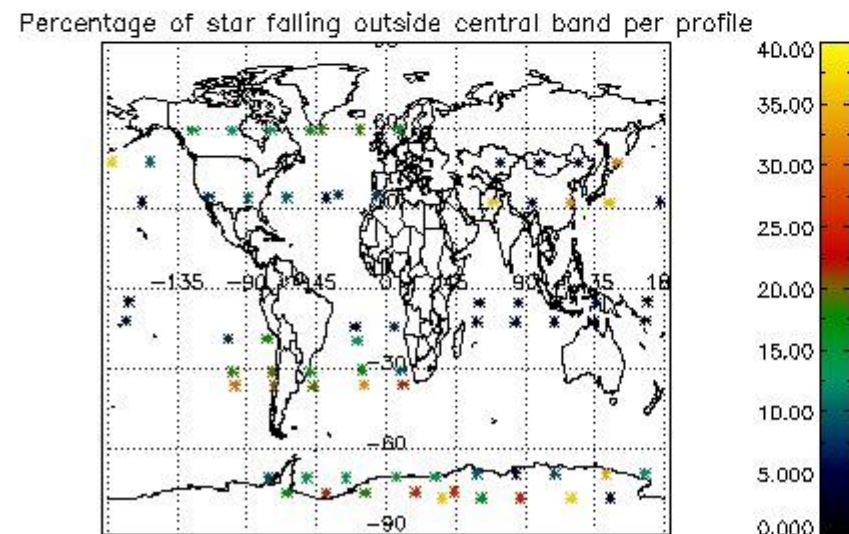
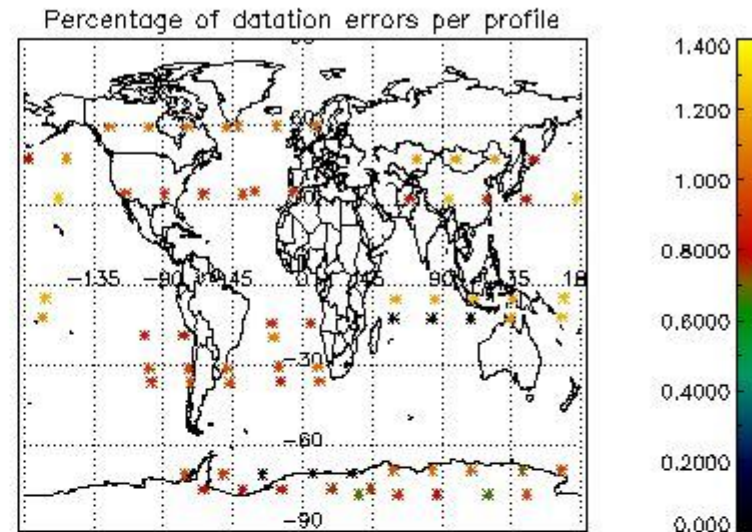
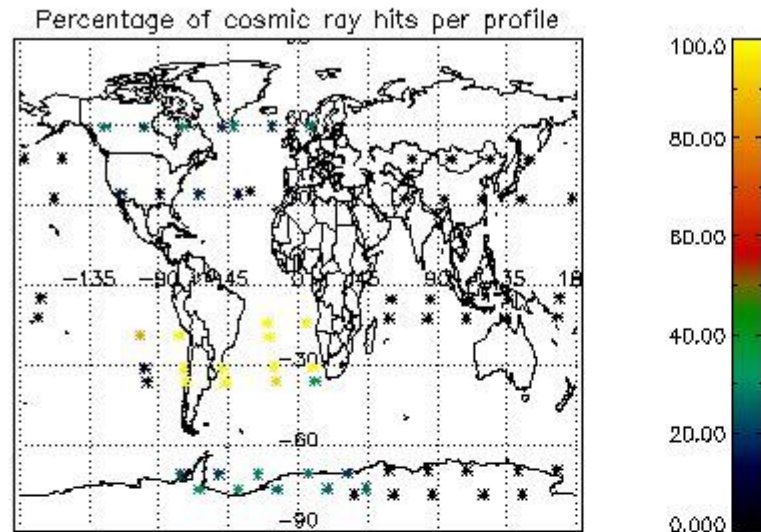
5.1 Percentage of products during reporting period with:

| | |
|---|-----------|
| At least one measurement with demodulation flag set: | 43.0556 % |
| Reference spectrum computed from DB: | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used: | 0.00000 % |

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



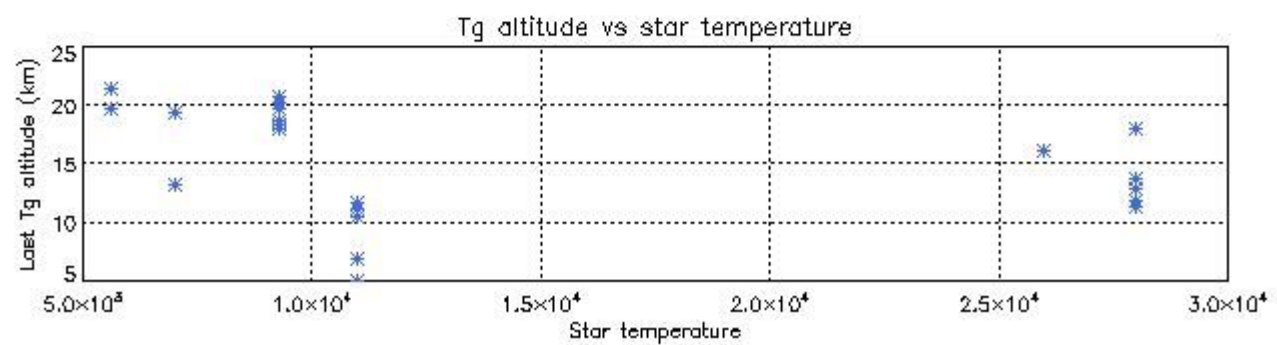
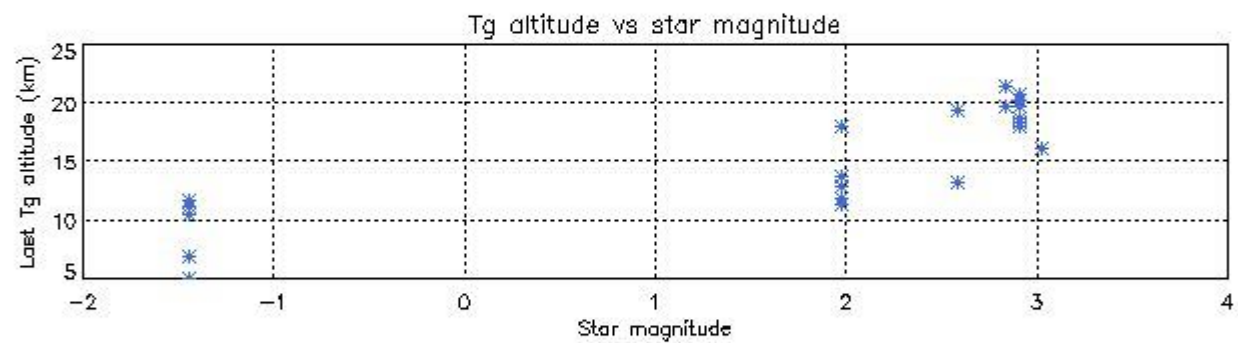
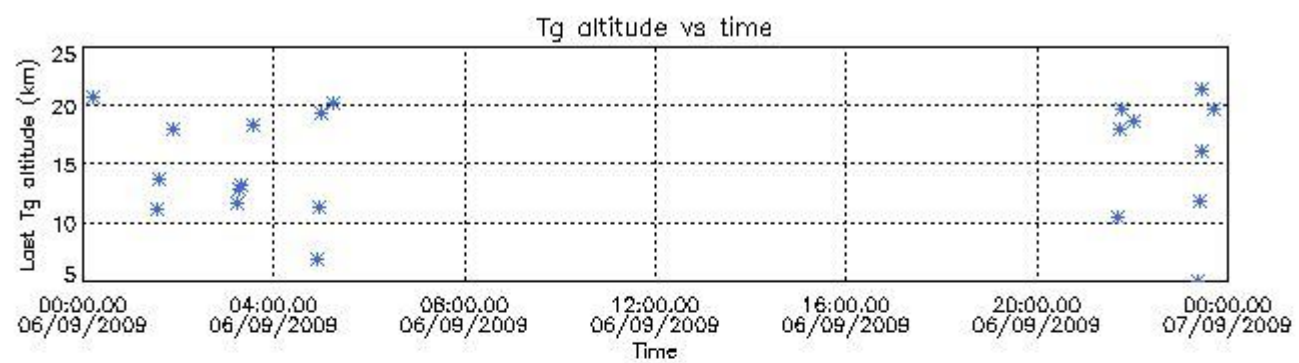
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

| Statistics | DARK | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean: | 15.151 | 17.255 | NaN |
| St. deviation: | 4.7508 | 8.0304 | NaN |
| Maximum: | 21.359 | 28.229 | NaN |
| Minimum: | 5.0348 | 3.3989 | NaN |
| Number of data: | 21.000 | 34.000 | NaN |

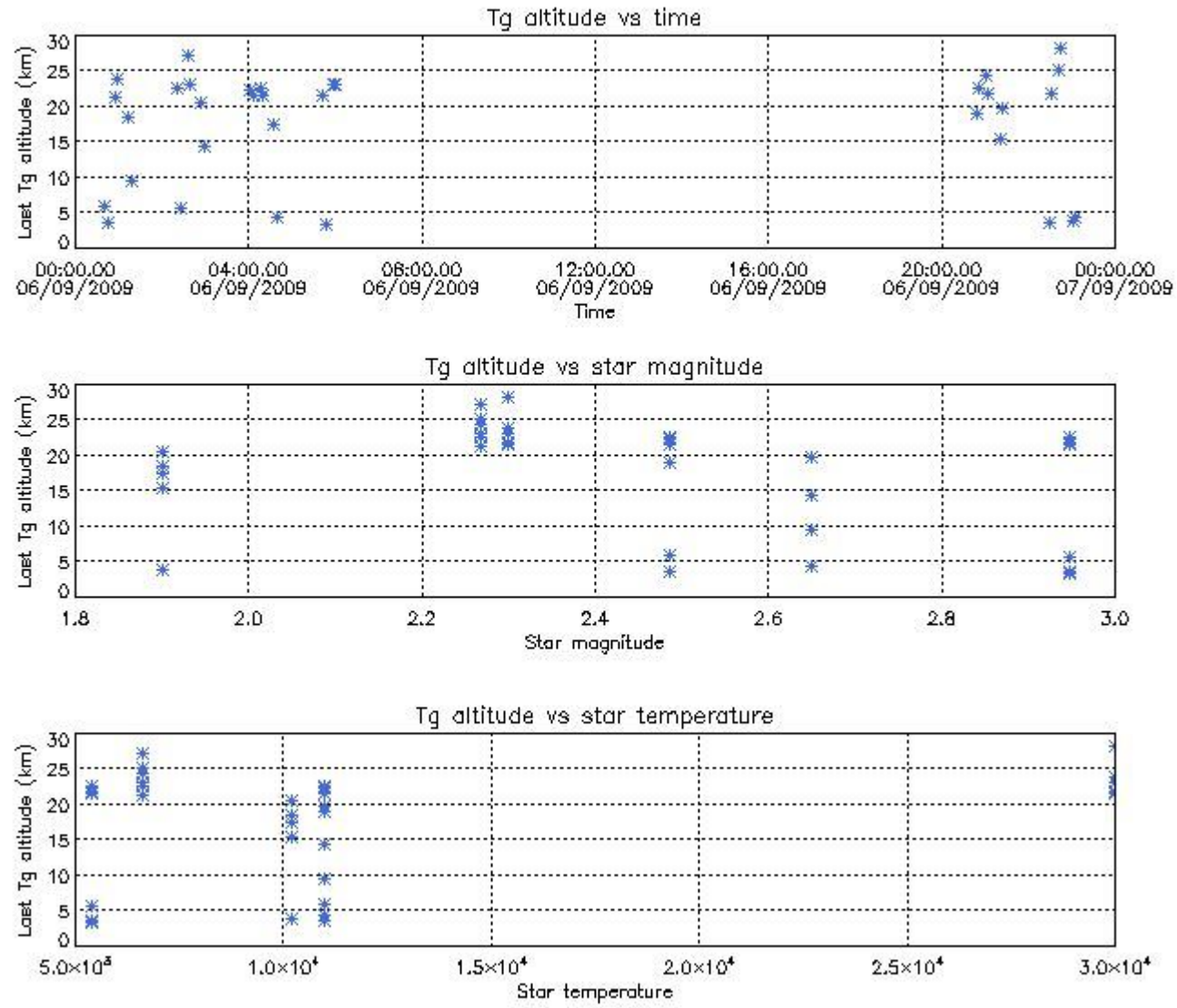
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

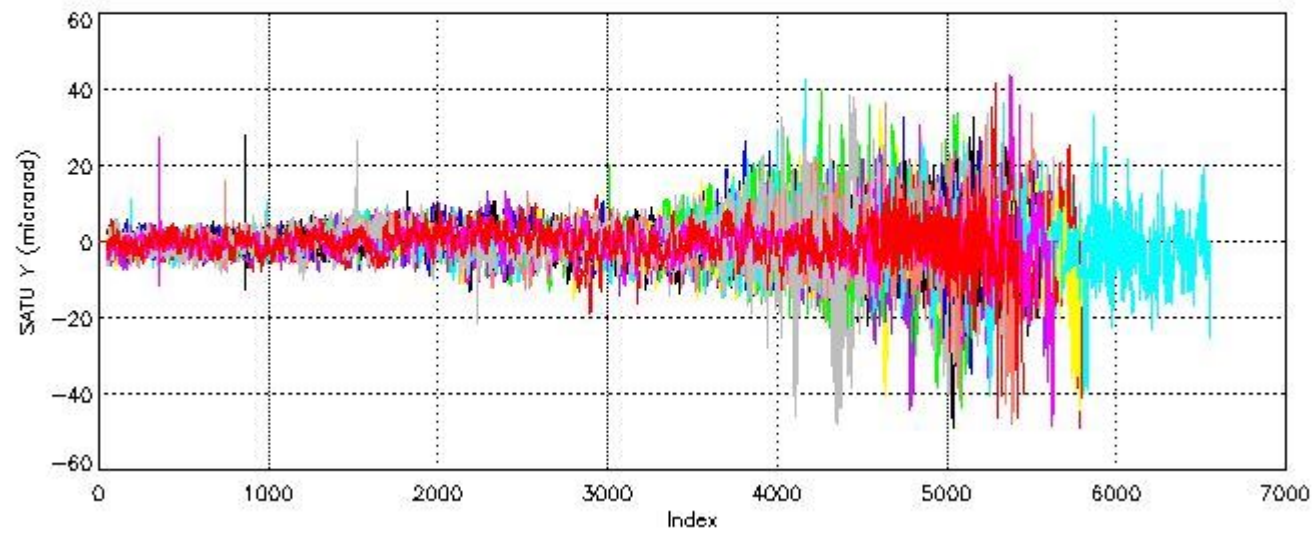
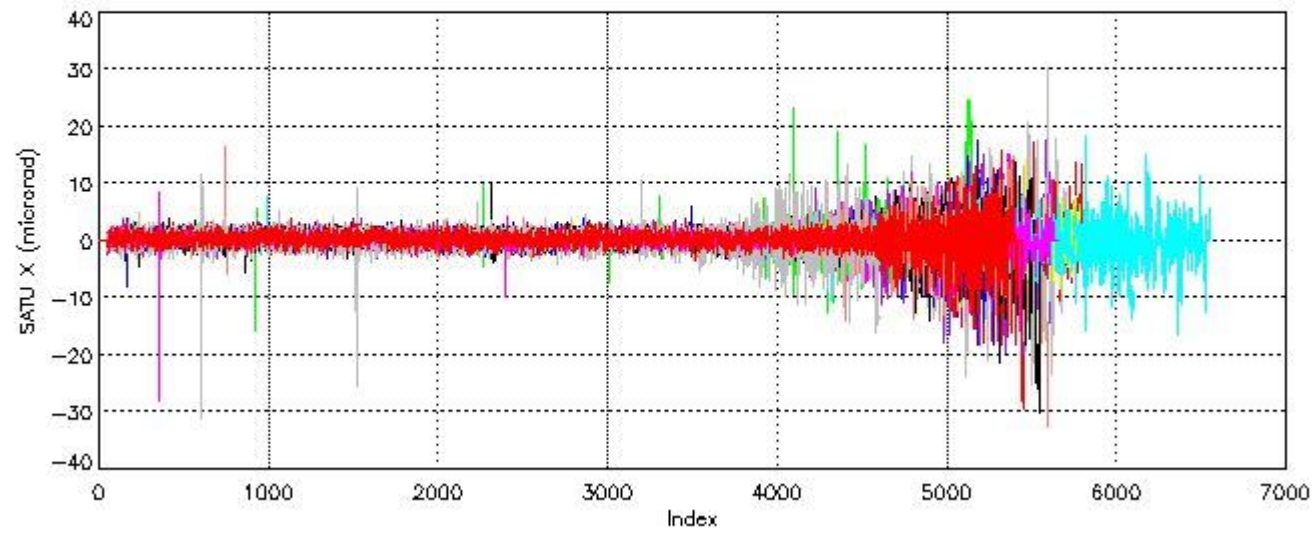


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

| Statistics | SATU X (D) | SATU Y (D) | SATU X (B) | SATU Y (B) |
|----------------|------------|------------|------------|------------|
| Mean: | 0.24682 | -0.62564 | 0.28065 | -0.46925 |
| St. deviation: | 0.72892 | 1.8521 | 0.87964 | 2.0334 |
| Maximum: | 16.400 | 27.800 | 4.5000 | 8.6000 |
| Minimum: | -31.200 | -12.400 | -3.9000 | -9.4000 |

| | | | | |
|-----------------|--------|--------|--------|--------|
| Number of data: | 25350. | 25350. | 36000. | 36000. |
|-----------------|--------|--------|--------|--------|

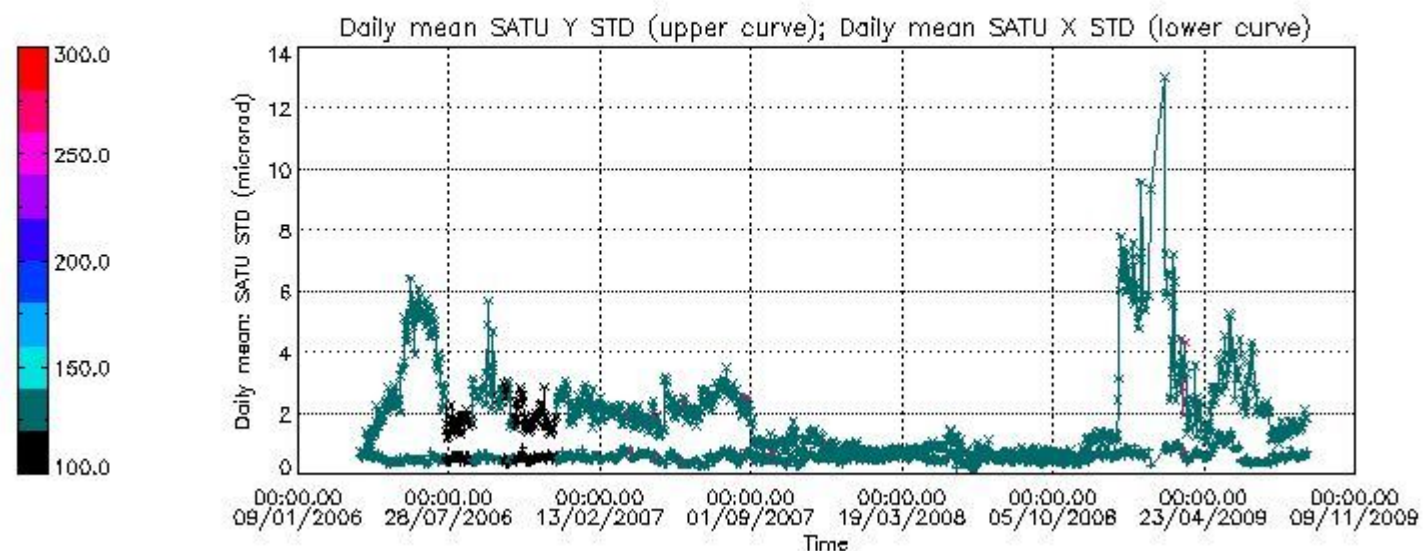
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

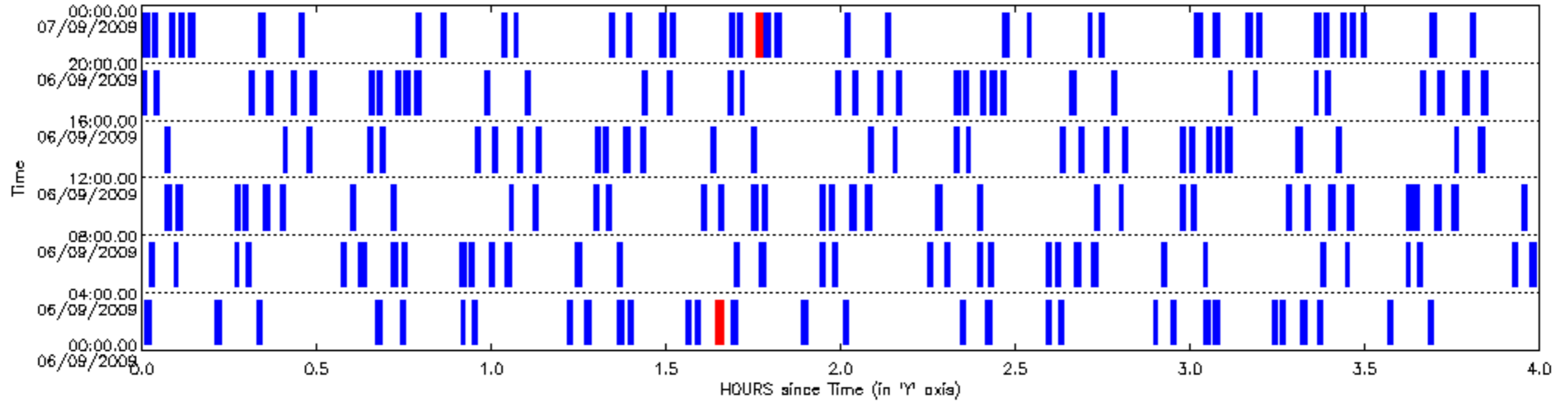
Lower curve: STD of SATU X axis

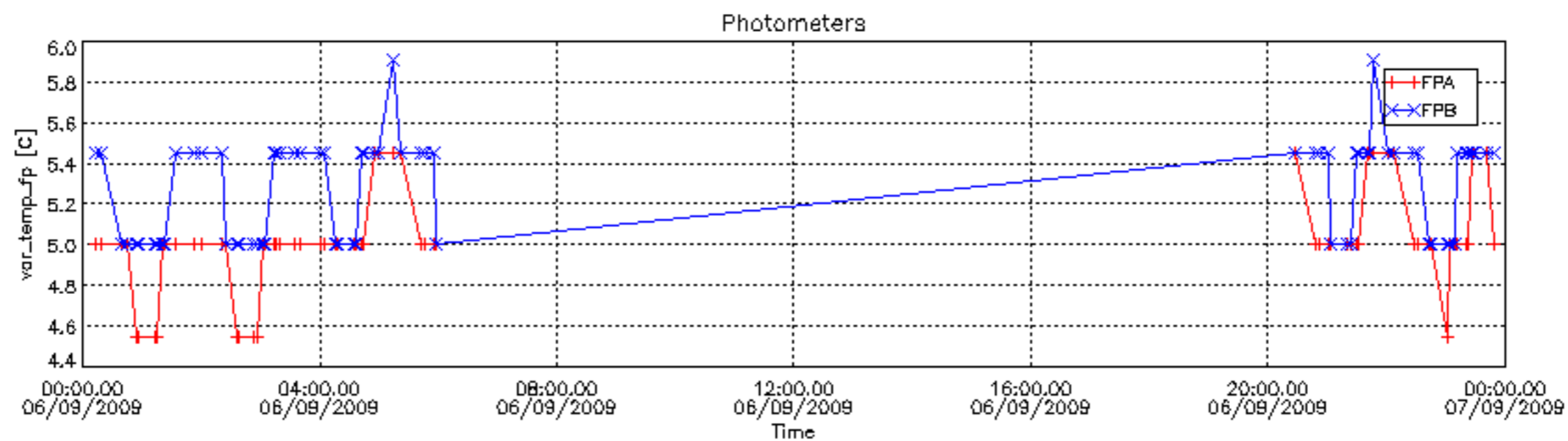
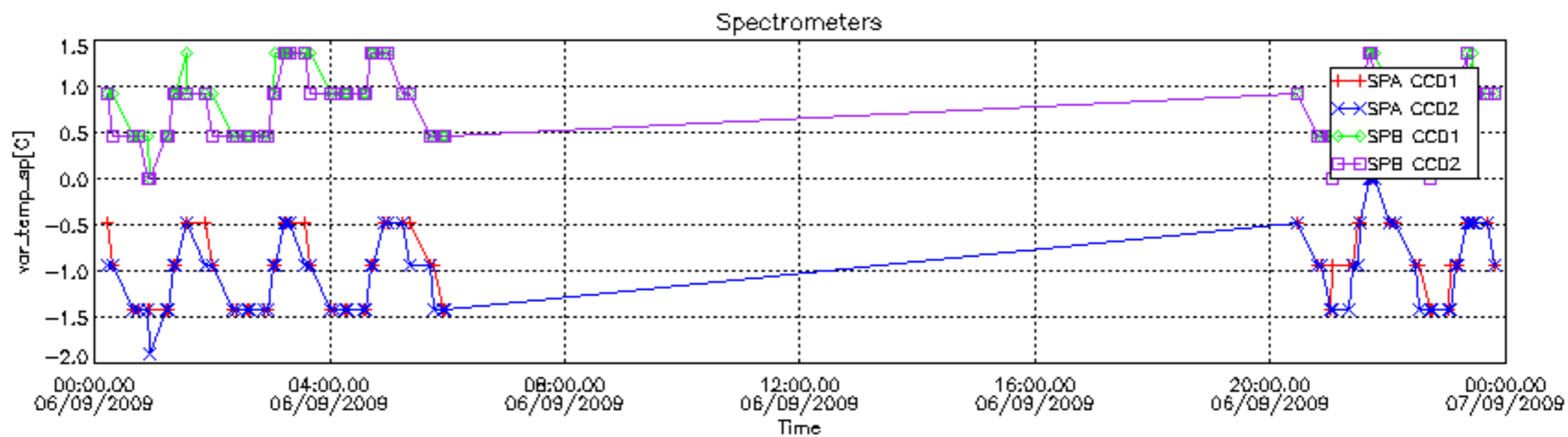


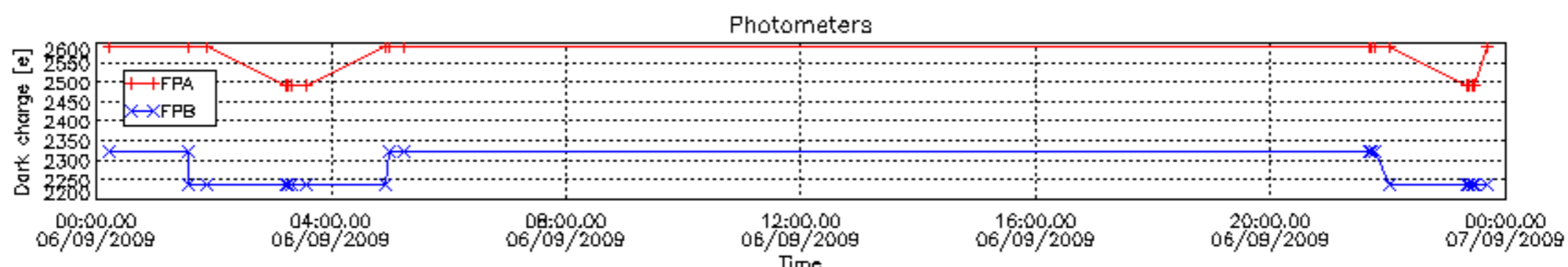
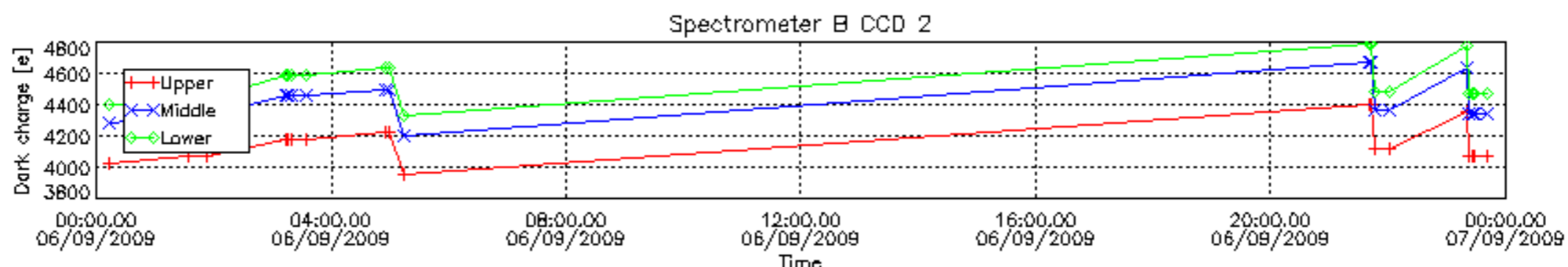
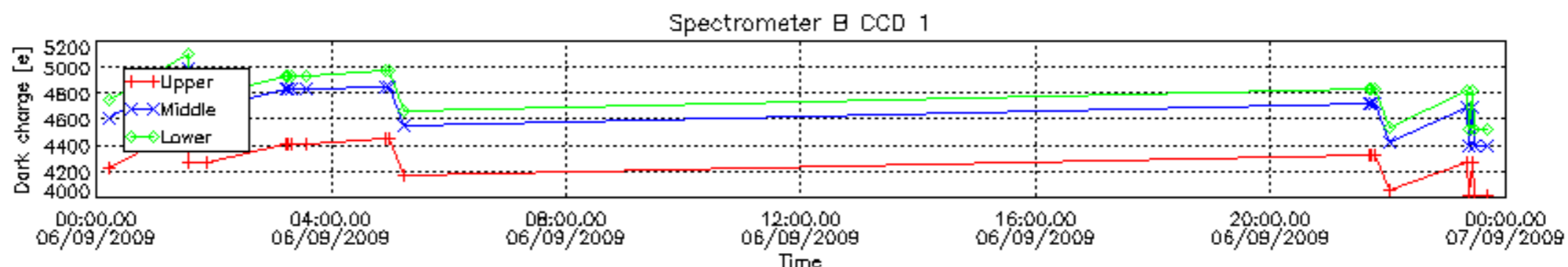
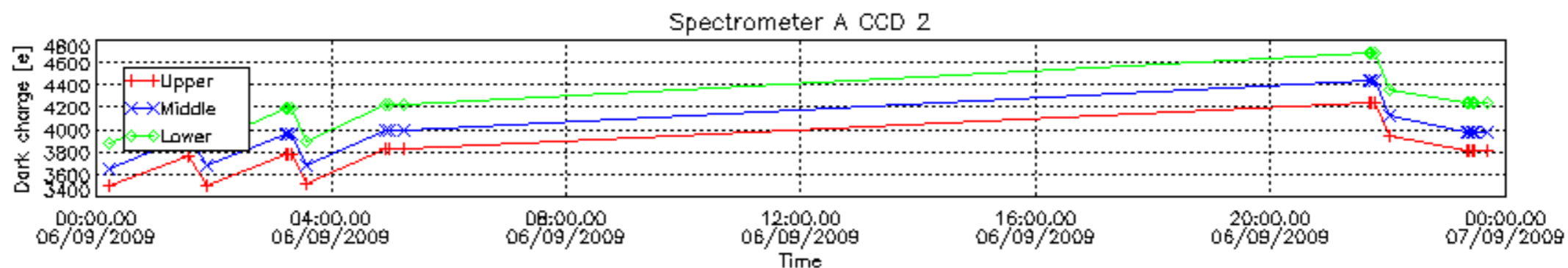
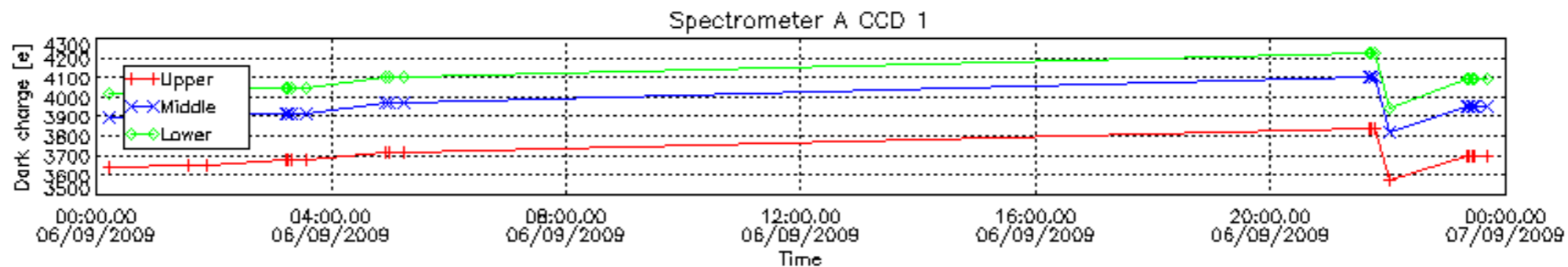
8. Auxiliary Data Files used for the production reported in section 2.4

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.

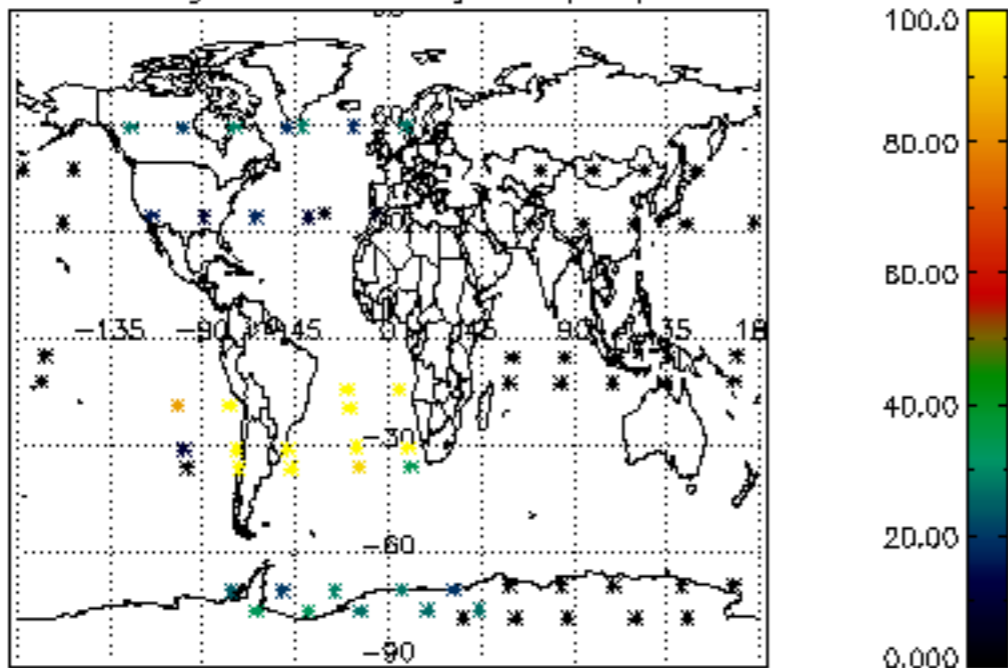
| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000 | 1 | 06-SEP-2009 00:12:35 |
| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20090831_103835_20090829_000000_20100101_000000 | 1 | 06-SEP-2009 00:12:35 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000 | 1 | 06-SEP-2009 00:12:35 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 06-SEP-2009 00:12:35 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000 | 1 | 06-SEP-2009 00:12:35 |
| ECMWF_FILE | AUX_ECF_AXNECM20090905_064122_20090905_210000_20090906_090000 | 1 | 06-SEP-2009 00:12:35 |
| ECMWF_FILE | AUX_ECF_AXNECM20090905_184116_20090906_030000_20090906_150000 | 32 | 06-SEP-2009 04:34:13 |
| ECMWF_FILE | AUX_ECF_AXNECM20090906_064113_20090906_150000_20090907_030000 | 45 | 06-SEP-2009 20:27:03 |
| ECMWF_FILE | AUX_ECF_AXNECM20090906_064113_20090906_210000_20090907_090000 | 54 | 06-SEP-2009 21:40:47 |
| OPTIONAL_ECMWF_FILE | MISSING | 1 | 06-SEP-2009 00:12:35 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090905_220443_000060572082_00172_39304_8701.N1 | 1 | 06-SEP-2009 00:12:35 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090905_235059_000054192082_00173_39305_8702.N1 | 11 | 06-SEP-2009 01:33:26 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090906_012637_000044632082_00174_39306_8703.N1 | 19 | 06-SEP-2009 02:53:37 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090906_024619_000054192082_00175_39307_8704.N1 | 32 | 06-SEP-2009 04:34:13 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090906_202338_000038252082_00186_39318_8706.N1 | 45 | 06-SEP-2009 20:27:03 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20090906_213242_000060572082_00186_39318_8707.N1 | 67 | 06-SEP-2009 23:21:23 |



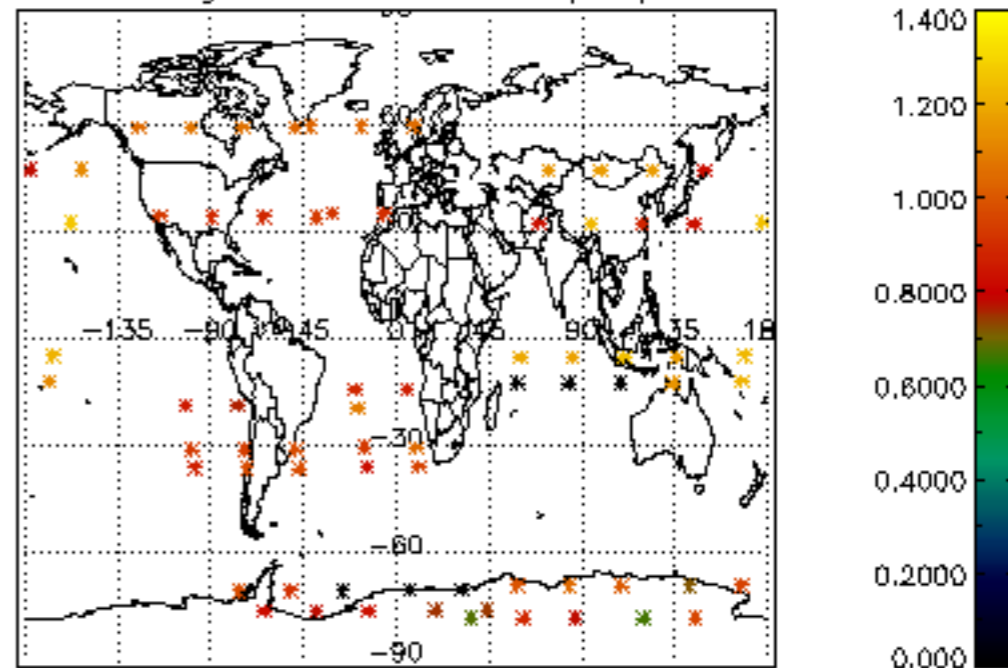




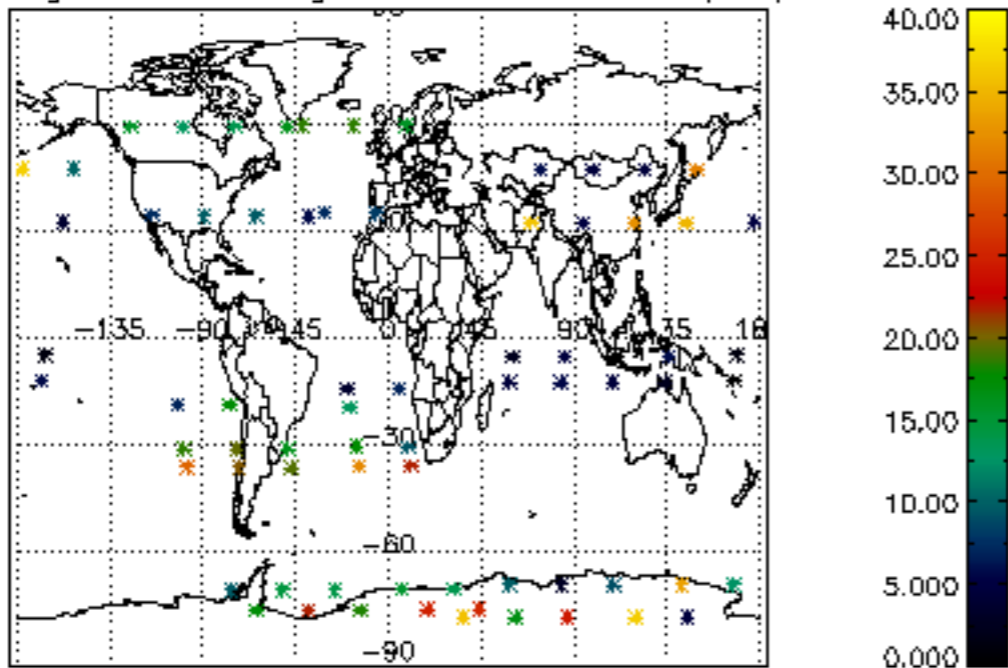
Percentage of cosmic ray hits per profile



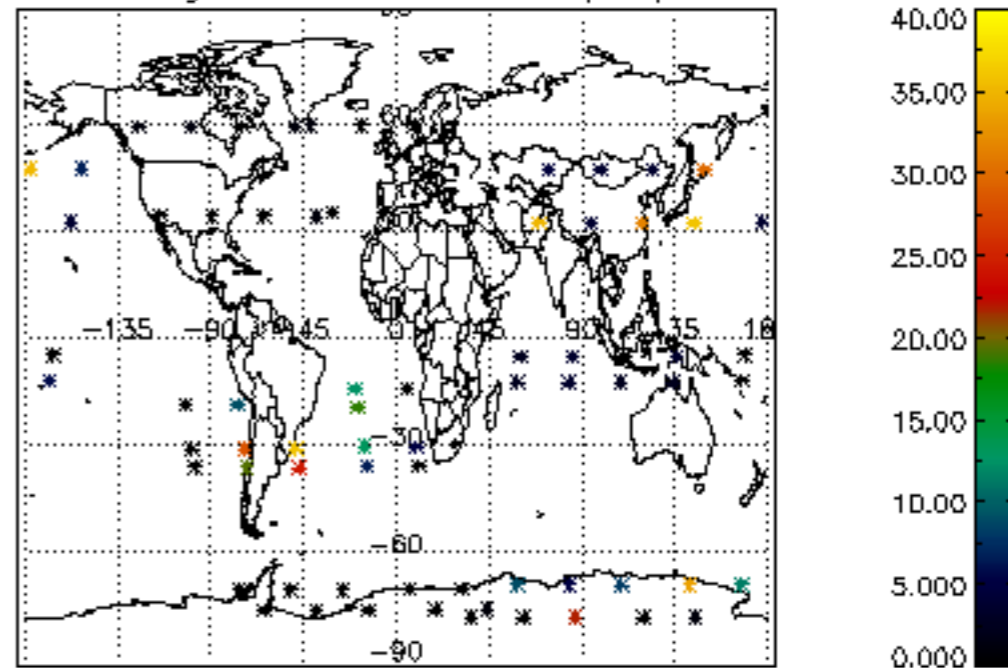
Percentage of datation errors per profile



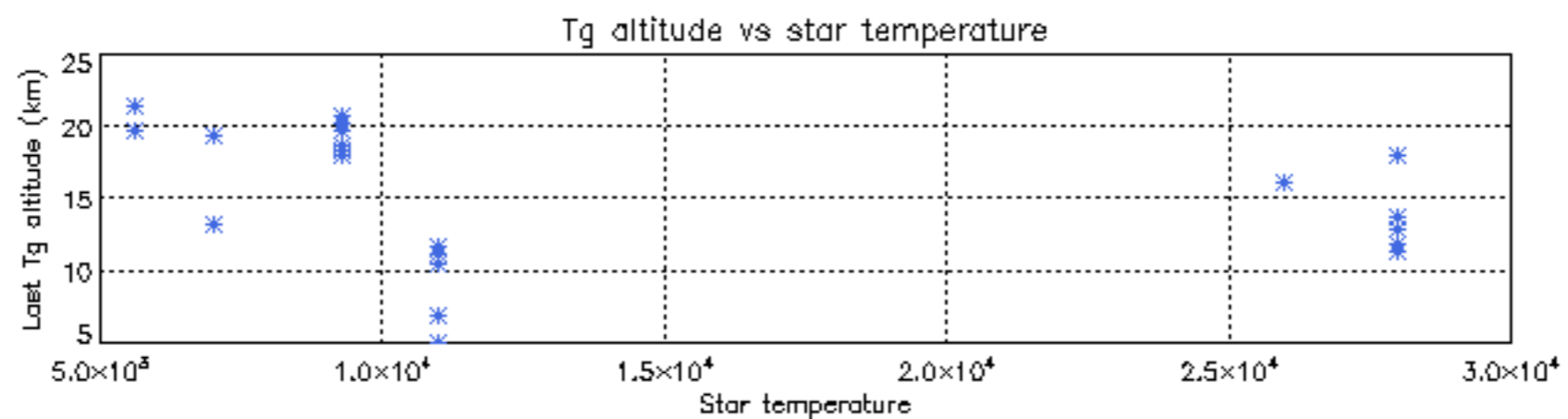
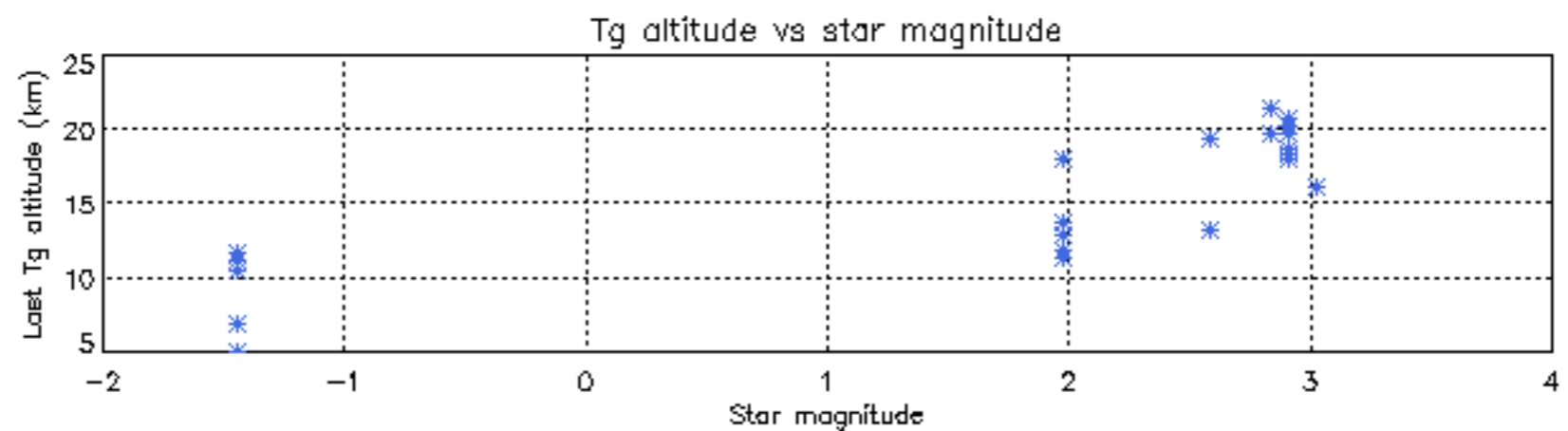
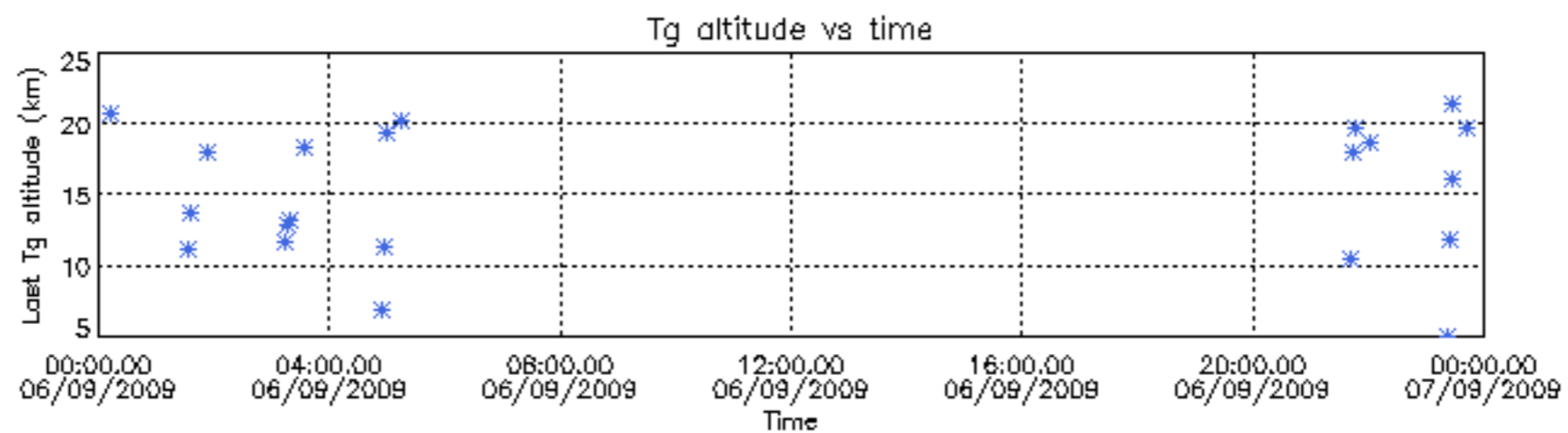
Percentage of star falling outside central band per profile



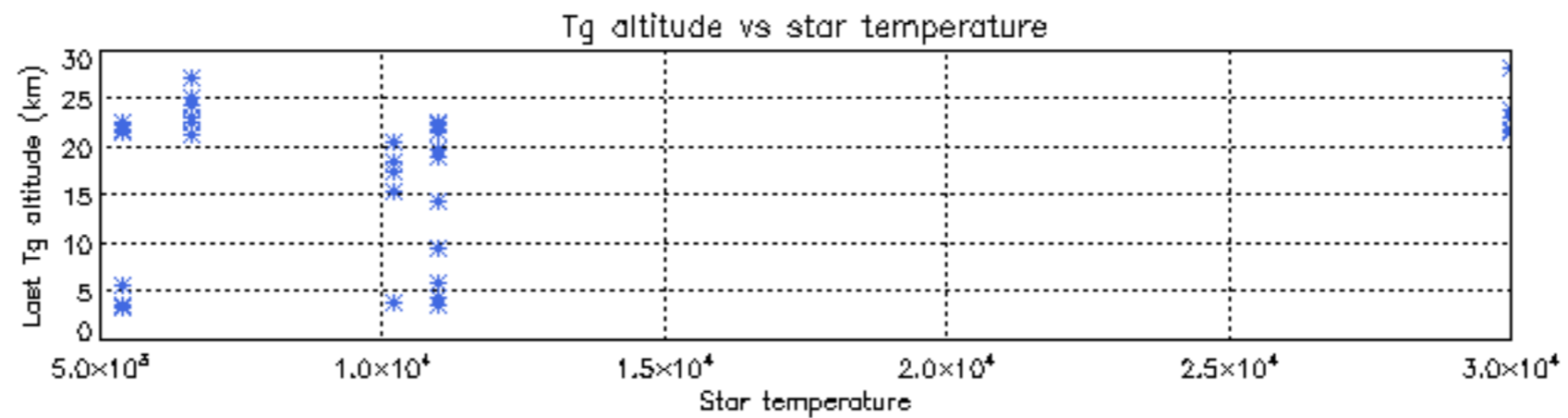
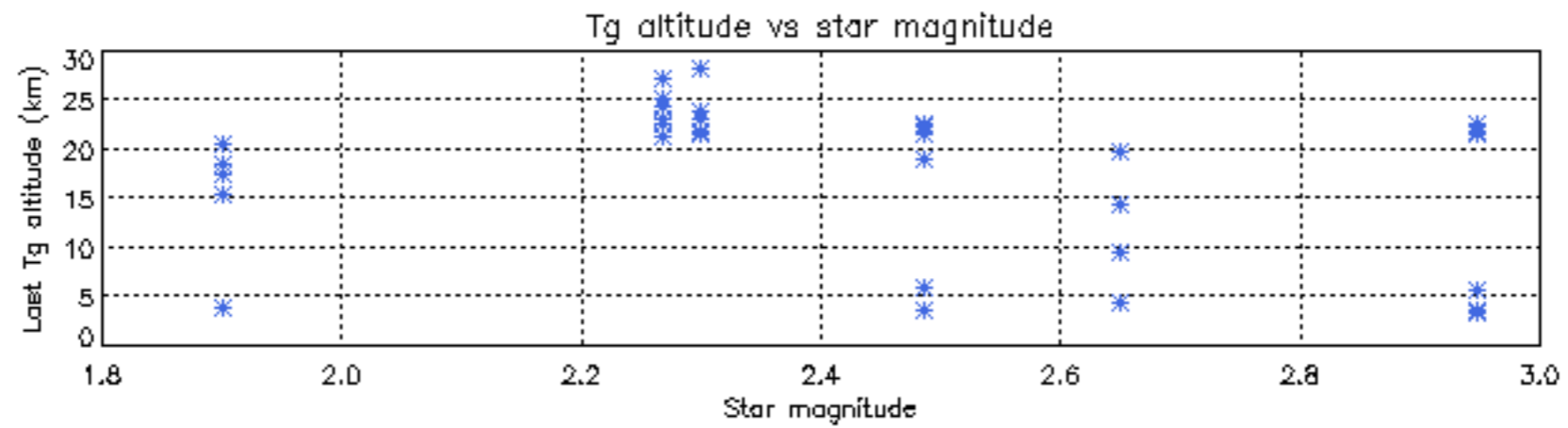
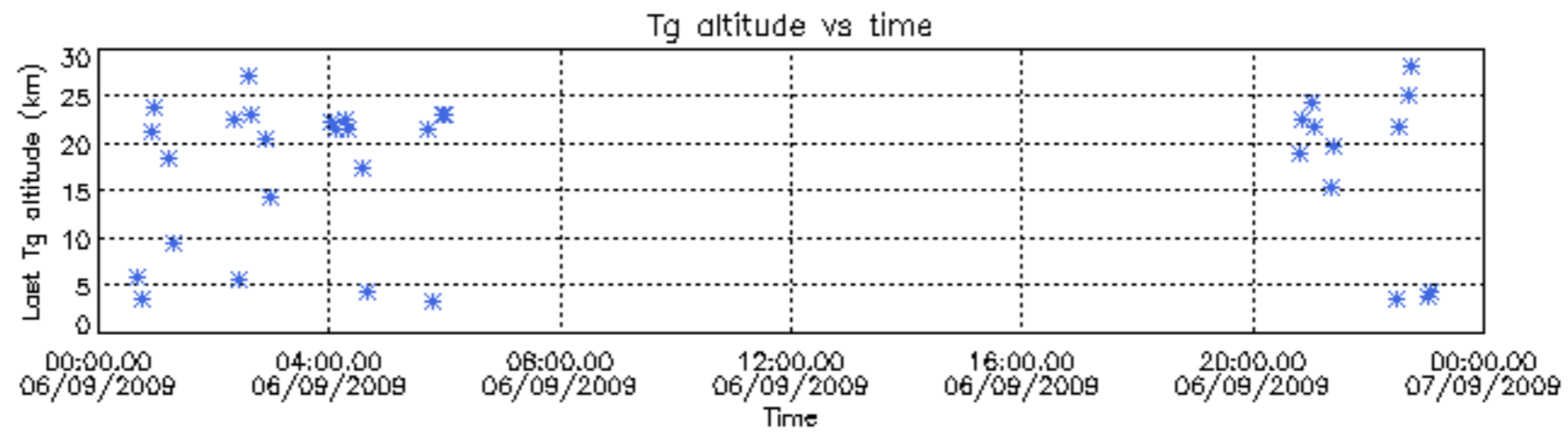
Percentage of saturation errors per profile

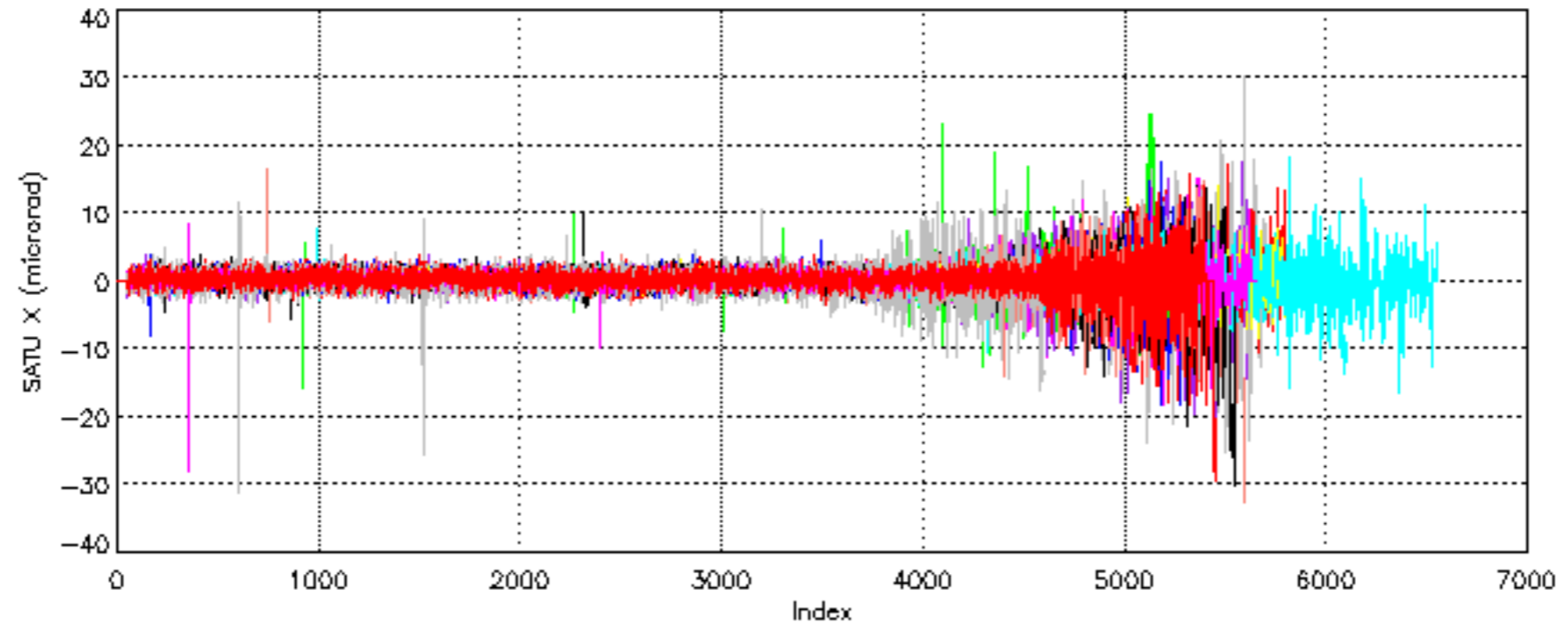


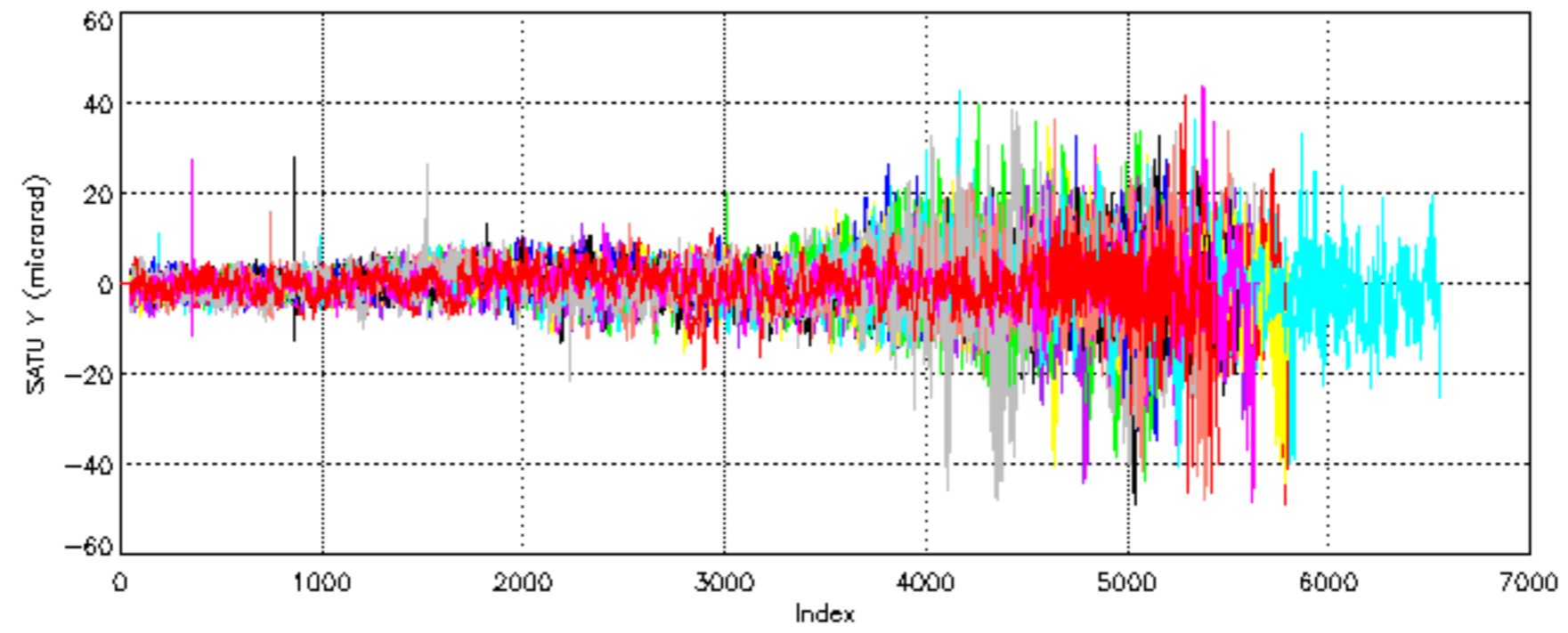
Tangent altitude at which the star is lost

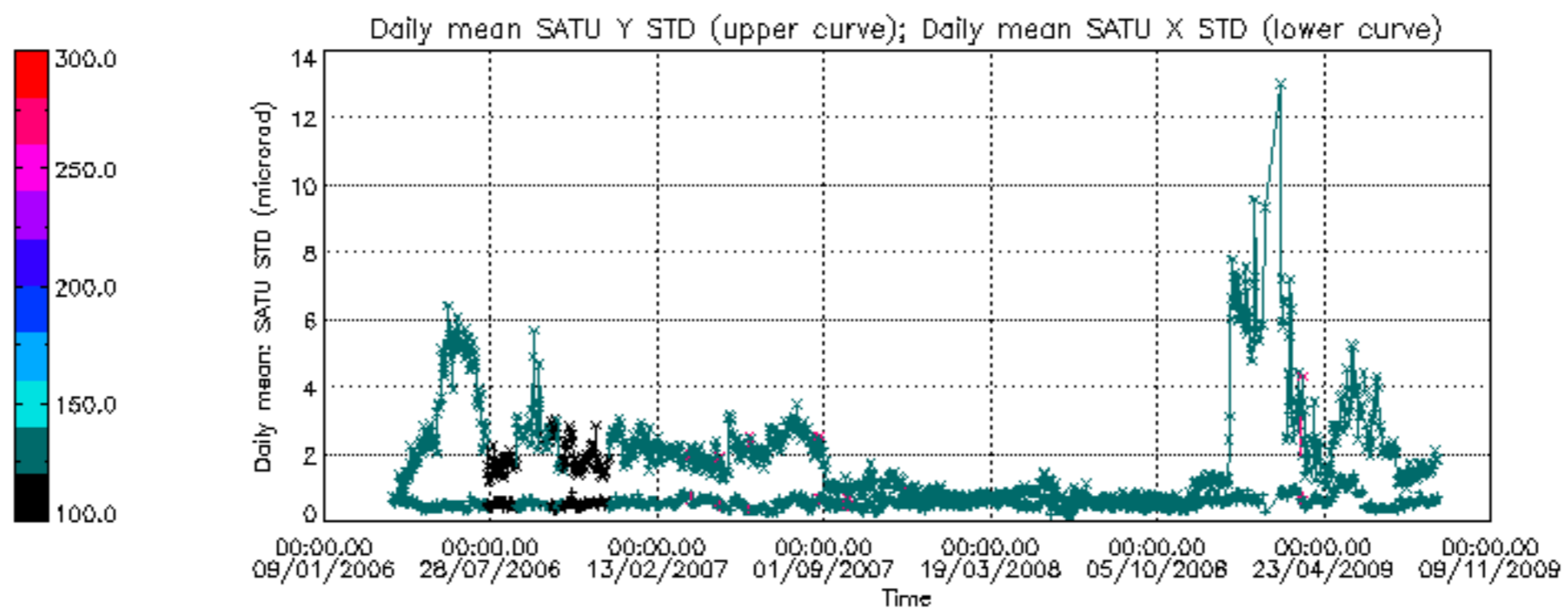


Tangent altitude at which the star is lost









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1; -717.2; 01-SEP-2009 00:48:36; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39234
 2; -585.8; 01-SEP-2009 00:50:47; Dark ; 48.5; 47; 2Bet CMa ; 1.98; 28000;occ; 97; 0;39234
 3; -413.8; 01-SEP-2009 00:53:39; Dark ; 51.0; 101; 11Alp Lep ; 2.58; 7000;occ; 102; 0;39234
 4; -237.7; 01-SEP-2009 00:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39234
 5; 487.5; 01-SEP-2009 01:08:40; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39235
 6; 962.2; 01-SEP-2009 01:16:35; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39235
 7; 1329.7; 01-SEP-2009 01:22:43; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;39235
 8; 2249.9; 01-SEP-2009 01:38:03; Bright; 47.5; 90; 54Alp Peg ; 2.49; 11000;occ; 95; 0;39235
 9; 2501.4; 01-SEP-2009 01:42:14; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39235
 10; 3142.8; 01-SEP-2009 01:52:56; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39235
 11; 3270.9; 01-SEP-2009 01:55:04; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39235
 12; 4155.8; 01-SEP-2009 02:09:49; Bright; 60.0; 6; 13Alp Aur ; 0.08; 3400;occ; 120; 0;39235
 13; 4378.2; 01-SEP-2009 02:13:31; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;39235
 14; 4687.0; 01-SEP-2009 02:18:40; Dark ; 64.0; 151; 13Mu Gem ; 2.89; 3000;occ; 128; 0;39235
 15; 4792.9; 01-SEP-2009 02:20:26; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;39235

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1; -966.8; 01-SEP-2009 02:25:02; Dark ; 66.5; 14; 58Alp Ori ; 0.87; 3000;occ; 133; 0;39235
 2; -715.8; 01-SEP-2009 02:29:13; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39235
 3; -584.8; 01-SEP-2009 02:31:24; Dark ; 49.5; 47; 2Bet CMa ; 1.98; 28000;occ; 99; 0;39235
 4; -412.2; 01-SEP-2009 02:34:17; Dark ; 52.5; 101; 11Alp Lep ; 2.58; 7000;occ; 105; 0;39235
 5; -236.5; 01-SEP-2009 02:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39235
 6; 488.8; 01-SEP-2009 02:49:18; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;39236
 7; 962.7; 01-SEP-2009 02:57:12; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39236
 8; 1330.1; 01-SEP-2009 03:03:19; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;39236
 9; 2249.4; 01-SEP-2009 03:18:38; Bright; 47.0; 90; 54Alp Peg ; 2.49; 11000;occ; 94; 0;39236
 10; 2500.7; 01-SEP-2009 03:22:50; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;39236
 11; 3142.5; 01-SEP-2009 03:33:31; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39236
 12; 3270.4; 01-SEP-2009 03:35:39; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39236

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1; -1880.5; 01-SEP-2009 03:50:24; Bright; 58.5; 6; 13Alp Aur ; 0.08; 3400;occ; 117; 0;39236
 2; -1657.5; 01-SEP-2009 03:54:07; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;39236
 3; -1348.6; 01-SEP-2009 03:59:16; Dark ; 53.5; 151; 13Mu Gem ; 2.89; 3000;occ; 107; 0;39236
 4; -1242.9; 01-SEP-2009 04:01:02; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;39236
 5; -965.8; 01-SEP-2009 04:05:39; Dark ; 74.0; 14; 58Alp Ori ; 0.87; 3000;occ; 148; 0;39236
 6; -714.7; 01-SEP-2009 04:09:50; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;39236
 7; -584.2; 01-SEP-2009 04:12:01; Dark ; 49.0; 47; 2Bet CMa ; 1.98; 28000;occ; 98; 0;39236
 8; -411.4; 01-SEP-2009 04:14:53; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;39236
 9; -235.3; 01-SEP-2009 04:17:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39236
 10; 489.9; 01-SEP-2009 04:29:55; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39237
 11; 963.6; 01-SEP-2009 04:37:48; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39237
 12; 1330.4; 01-SEP-2009 04:43:55; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;39237
 13; 2248.7; 01-SEP-2009 04:59:14; Bright; 70.0; 90; 54Alp Peg ; 2.49; 11000;occ; 140; 0;39237
 14; 2500.2; 01-SEP-2009 05:03:25; Bright; 43.5; 164; 44Eta Peg ; 2.95; 5400;occ; 87; 0;39237
 15; 3141.8; 01-SEP-2009 05:14:07; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39237
 16; 3269.5; 01-SEP-2009 05:16:14; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39237

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 2; -1657.7; 01-SEP-2009 05:34:43; Bright; 46.5; 107; 37The Aur ; 2.65; 11000;occ; 93; 0;39237
 3; -1348.2; 01-SEP-2009 05:39:53; Dark ; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;39237
 4; -1242.4; 01-SEP-2009 05:41:38; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;39237
 5; -964.9; 01-SEP-2009 05:46:16; Dark ; 71.5; 14; 58Alp Ori ; 0.87; 3000;occ; 143; 0;39237
 6; -713.5; 01-SEP-2009 05:50:27; Dark ; 35.0; 30; 46Eps Ori ; 1.69; 30000;occ; 70; 0;39237
 7; -583.2; 01-SEP-2009 05:52:38; Dark ; 48.0; 47; 2Bet CMa ; 1.98; 28000;occ; 96; 0;39237
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 9; -234.2; 01-SEP-2009 05:58:27; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39237
 10; 491.2; 01-SEP-2009 06:10:32; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;39238
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 12; 1330.7; 01-SEP-2009 06:24:32; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;39238
 13; 2248.4; 01-SEP-2009 06:39:49; Bright; 46.5; 90; 54Alp Peg ; 2.49; 11000;occ; 93; 0;39238
 14; 2499.6; 01-SEP-2009 06:44:00; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39238
 15; 3141.0; 01-SEP-2009 06:54:42; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;39238
 16; 3268.9; 01-SEP-2009 06:56:50; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;39238

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1; 968.7; 01-SEP-2009 19:43:17; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;39246
 2; 1332.8; 01-SEP-2009 19:49:21; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;39246
 3; 2244.0; 01-SEP-2009 20:04:32; Bright; 46.0; 90; 54Alp Peg ; 2.49; 11000;occ; 92; 0;39246
 4; 2495.9; 01-SEP-2009 20:08:44; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;39246

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5; 3136.1; 01-SEP-2009 20:19:24; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;39246
6; 3263.2; 01-SEP-2009 20:21:32; Bright; 46.5; 76; 27Gam Cas ; 2.30; 30000;occ; 93; 0;39246
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 7; 4689.7; 01-SEP-2009 15:43:30; Dark ; 59.0; 151; 13Mu Gem ; 2.89; 3000;occ; 118; 0;39243
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12; 5633.3; 01-SEP-2009 15:59:14; Dark ; 55.0; 101; 11Alp Lep ; 2.58; 7000;occ; 110; 0;39243

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3; -1224.5; 04-SEP-2009 05:47:41; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;39280
4; -631.5; 04-SEP-2009 05:57:34; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;39280
5; -548.9; 04-SEP-2009 05:58:57; Dark ; 48.0; 47; 2Bet CMA ; 1.98; 28000;occ; 96; 0;39280
6; -355.6; 04-SEP-2009 06:02:10; Dark ; 57.0; 101; 11Alp Lep ; 2.58; 7000;occ; 114; 0;39280
7; -182.3; 04-SEP-2009 06:05:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39280
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9; 988.4; 04-SEP-2009 06:24:34; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;39281
10; 2228.1; 04-SEP-2009 06:45:13; Bright; 44.0; 90; 54Alp Peg ; 2.49; 11000;occ; 88; 0;39281
11; 2480.7; 04-SEP-2009 06:49:26; Bright; 42.0; 164; 44Eta Peg ; 2.95; 5400;occ; 84; 0;39281
12; 3114.6; 04-SEP-2009 07:00:00; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;39281
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3; 2477.3; 04-SEP-2009 20:14:10; Bright; 40.0; 164; 44Eta Peg ; 2.95; 5400;occ; 80; 0;39289
4; 3110.0; 04-SEP-2009 20:24:43; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39289
5; 3233.7; 04-SEP-2009 20:26:47; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;39289
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6; 993.3; 04-SEP-2009 21:30:02; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;39290
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14; 4706.1; 04-SEP-2009 22:31:55; Dark ; 61.0; 151; 13Mu Gem ; 2.89; 3000;occ; 122; 0;39290
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5; -548.1; 04-SEP-2009 07:39:33; Dark ; 50.5; 47; 2Bet CMA ; 1.98; 28000;occ; 101; 0;39281
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3; 3114.0; 04-SEP-2009 08:40:35; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;39282
4; 3238.5; 04-SEP-2009 08:42:40; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39282
5; 4142.4; 04-SEP-2009 08:57:44; Bright; 46.0; 6; 13Alp Aur ; 0.08; 3400;occ; 92; 0;39282
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3; 3113.5; 04-SEP-2009 10:21:11; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;39283
4; 3238.0; 04-SEP-2009 10:23:15; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;39283
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3; 3113.0; 04-SEP-2009 12:01:46; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39284
4; 3237.2; 04-SEP-2009 12:03:50; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;39284
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11; 4378.4; 08-SEP-2009 01:53:23; Bright; 50.5; 107; 37The Aur ; 2.65; 11000;occ; 101; 0;39335
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12; 5920.2; 08-SEP-2009 15:43:53; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;39343
13; 6651.7; 08-SEP-2009 15:56:04; Dark ; 54.5; 157; The1Eri ; 2.91; 9300;occ; 109; 0;39343
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3; 3079.1; 08-SEP-2009 16:37:07; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;39344
4; 3197.9; 08-SEP-2009 16:39:06; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;39344
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12; 5816.0; 08-SEP-2009 17:22:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39344
13; 5921.2; 08-SEP-2009 17:24:29; Dark ; 48.5; 108; Alp Col ; 2.65; 15200;occ; 97; 0;39344
14; 6652.8; 08-SEP-2009 17:36:41; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39344
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3; 2458.0; 08-SEP-2009 18:07:22; Bright; 38.0; 164; 44Eta Peg ; 2.95; 5400;occ; 76; 0;39345
4; 3078.4; 08-SEP-2009 18:17:43; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39345
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6; 4378.3; 08-SEP-2009 18:39:23; Bright; 49.0; 107; 37The Aur ; 2.65; 11000;occ; 98; 0;39345
7; 4467.7; 08-SEP-2009 18:40:52; Bright; 42.5; 24; 66Alp Gem ; 1.58; 10200;occ; 85; 0;39345
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 6; 4190.5; 08-SEP-2009 20:16:51; Bright; 58.0; 42; 34Bet Aur ; 1.90; 10200;occ; 116; 0;39346
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16; 6655.1; 08-SEP-2009 20:57:55; Dark ; 55.0; 157; The1Eri ; 2.91; 9300;occ; 110; 0;39346
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11; 1024.4; 09-SEP-2009 03:47:04; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;39351
12; 2202.5; 09-SEP-2009 04:06:42; Bright; 58.5; 90; 54Alp Peg ; 2.49; 11000;occ; 117; 0;39351
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15; 3045.6; 13-SEP-2009 05:35:29; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39409
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11; 1521.8; 13-SEP-2009 06:50:41; Dark ; 59.5; 52; 16Bet Cet ; 2.04; 4500;occ; 119; 0;39410
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15; 3045.3; 13-SEP-2009 07:16:04; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;39410
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 5; 3041.3; 13-SEP-2009 20:40:48; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39418
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 5; 697.5; 13-SEP-2009 21:42:20; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39419
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 11; 3151.9; 13-SEP-2009 22:23:14; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39419
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 13; 4477.7; 13-SEP-2009 22:45:20; Bright; 61.0; 24; 66Alp Gem ; 1.58; 10200;occ; 122; 0;39419
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 6; 1523.3; 13-SEP-2009 23:36:41; Dark ; 56.5; 52; 16Bet Cet ; 2.04; 4500;occ; 113; 0;39420
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 15; 4887.4; 14-SEP-2009 00:32:46; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;39420
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 6; -383.6; 13-SEP-2009 07:59:31; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;39410
 7; -164.5; 13-SEP-2009 08:03:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39410
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 4; 3044.7; 13-SEP-2009 08:56:40; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;39411
 5; 3156.7; 13-SEP-2009 08:58:32; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;39411
 6; 4175.6; 13-SEP-2009 09:15:31; Bright; 56.0; 42; 34Bet Aur ; 1.90; 10200;occ; 112; 0;39411
 7; 4476.5; 13-SEP-2009 09:20:31; Bright; 42.5; 24; 66Alp Gem ; 1.58; 10200;occ; 85; 0;39411
 8; 4662.1; 13-SEP-2009 09:23:37; Dark ; 58.0; 170; 27Eps Gem ; 3.00; 9700;occ; 116; 0;39411
 9; 4984.1; 13-SEP-2009 09:28:59; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;39411
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14; 6725.9; 13-SEP-2009 09:58:01; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39411
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 3; 2563.2; 13-SEP-2009 10:29:14; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;39412
 4; 3044.0; 13-SEP-2009 10:37:15; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;39412
 5; 3156.0; 13-SEP-2009 10:39:07; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;39412
 6; 4175.2; 13-SEP-2009 10:56:06; Bright; 56.5; 42; 34Bet Aur ; 1.90; 10200;occ; 113; 0;39412
 7; 4476.8; 13-SEP-2009 11:01:08; Bright; 45.0; 24; 66Alp Gem ; 1.58; 10200;occ; 90; 0;39412
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 5; 3155.4; 13-SEP-2009 12:19:42; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39413
 6; 4174.8; 13-SEP-2009 12:36:42; Bright; 55.5; 42; 34Bet Aur ; 1.90; 10200;occ; 111; 0;39413
 7; 4476.9; 13-SEP-2009 12:41:44; Bright; 45.5; 24; 66Alp Gem ; 1.58; 10200;occ; 91; 0;39413
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13; 5875.9; 13-SEP-2009 16:26:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39415
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7; 801.0; 21-SEP-2009 07:27:30; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;39525
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6; 903.1; 29-SEP-2009 21:42:50; Dark ; 41.5; 157; The1Eri ; 2.91; 9300;occ; 83; 0;39648
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