

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

[3. Level 2 Quality information per product](#)

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

[4.1 Plot of level 1 quality information per product \(time dependant\)](#)

[4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

[4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

[4.2 Plot of level 1 quality information per product \(world map\)](#)

[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

[4.2.2 Plot of level 1 quality information per product \(world map\): DESCENDING](#)

[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

[5.1 Ozone statistics based on quality of products](#)

[5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

[5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

[5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

[5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

[6. Auxiliary Data Files used for the production reported in section 2](#)

This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

| Item | Value |
|---------------------------|---------------------------------|
| Time of report generation | 26APR2013 12:31:02 |
| Data source version | GOMOS/6.01 |
| Start time of products | 06-09-2009 (06SEP2009 00:00:00) |
| Stop time of products | 07-09-2009 (07SEP2009 00:00:00) |
| Store outputs in DB | Yes |
| Nb of level 2 prods | 188 |
| Nb of prods with errors | 0 |

2. Summary of processed GOM_NL__2P products.

| Nr | Filename | UTC Start time | Limb | Duration | Star Id | Star Name | Star Mag | Star Temp | Nb Meas | Orbit | Prod. error |
|----|--|----------------------|----------------|----------|---------|-----------|----------|-----------|---------|-------|-------------|
| 1 | GOM_NL__2PRFIN20090906_001235_000000542082_00174_39306_3970.N1 | 06-SEP-2009 00:12:35 | Dark | 53.500 | 157 | The1Eri | 2.9060 | 9300.0 | 107 | 39306 | No |
| 2 | GOM_NL__2PRFIN20090906_001945_000000492082_00174_39306_3971.N1 | 06-SEP-2009 00:19:45 | Straylight | 48.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 97 | 39306 | No |
| 3 | GOM_NL__2PRFIN20090906_004001_000000612082_00174_39306_3972.N1 | 06-SEP-2009 00:40:01 | Bright | 60.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 121 | 39306 | No |
| 4 | GOM_NL__2PRFIN20090906_004414_000000602082_00174_39306_3973.N1 | 06-SEP-2009 00:44:14 | Bright | 60.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 120 | 39306 | No |
| 5 | GOM_NL__2PRFIN20090906_005443_000000432082_00174_39306_3974.N1 | 06-SEP-2009 00:54:43 | Bright | 43.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 86 | 39306 | No |
| 6 | GOM_NL__2PRFIN20090906_005646_000000442082_00174_39306_3975.N1 | 06-SEP-2009 00:56:46 | Bright | 43.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 87 | 39306 | No |
| 7 | GOM_NL__2PRFIN20090906_011301_000000502082_00174_39306_3976.N1 | 06-SEP-2009 01:13:01 | Bright | 49.500 | 42 | 34Bet Aur | 1.9000 | 10200. | 99 | 39306 | No |
| 8 | GOM_NL__2PRFIN20090906_011602_000000642082_00174_39306_3977.N1 | 06-SEP-2009 01:16:02 | Bright | 64.000 | 107 | 37The Aur | 2.6490 | 11000. | 128 | 39306 | No |
| 9 | GOM_NL__2PRFIN20090906_012135_000000602082_00174_39306_3978.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_NL__2PRFIN20090906_012327_000000542082_00174_39306_3979.N1 | 06-SEP-2009 01:23:27 | Tw_i_and_stray | 53.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 107 | 39306 | No |
| 11 | GOM_NL__2PRFIN20090906_013326_000000522082_00174_39306_3980.N1 | 06-SEP-2009 01:33:26 | Dark | 51.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 103 | 39306 | No |
| 12 | GOM_NL__2PRFIN20090906_013453_000000522082_00174_39306_3981.N1 | 06-SEP-2009 01:34:53 | Dark | 51.500 | 47 | 2Bet CMa | 1.9760 | 28000. | 103 | 39306 | No |
| 13 | GOM_NL__2PRFIN20090906_015312_000000572082_00175_39307_3984.N1 | 06-SEP-2009 01:53:12 | Dark | 56.500 | 157 | The1Eri | 2.9060 | 9300.0 | 113 | 39307 | No |
| 14 | GOM_NL__2PRFIN20090906_020021_000000472082_00175_39307_3985.N1 | 06-SEP-2009 02:00:21 | Straylight | 47.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 94 | 39307 | No |
| 15 | GOM_NL__2PRFIN20090906_022037_000000432082_00175_39307_3986.N1 | 06-SEP-2009 02:20:37 | Bright | 43.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 86 | 39307 | No |
| 16 | GOM_NL__2PRFIN20090906_022450_000000572082_00175_39307_3987.N1 | 06-SEP-2009 02:24:50 | Bright | 57.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 114 | 39307 | No |
| 17 | GOM_NL__2PRFIN20090906_023519_000000402082_00175_39307_3988.N1 | 06-SEP-2009 02:35:19 | Bright | 40.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 80 | 39307 | No |
| 18 | GOM_NL__2PRFIN20090906_023721_000000442082_00175_39307_3989.N1 | 06-SEP-2009 02:37:21 | Bright | 44.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 88 | 39307 | No |
| 19 | GOM_NL__2PRFIN20090906_025337_000000482082_00175_39307_3990.N1 | 06-SEP-2009 02:53:37 | Bright | 48.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 96 | 39307 | No |
| 20 | GOM_NL__2PRFIN20090906_025638_000000572082_00175_39307_3991.N1 | 06-SEP-2009 02:56:38 | Bright | 56.500 | 107 | 37The Aur | 2.6490 | 11000. | 113 | 39307 | No |
| 21 | GOM_NL__2PRFIN20090906_030212_000000642082_00175_39307_3992.N1 | 06-SEP-2009 03:02:12 | Tw_i_and_stray | 64.000 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 128 | 39307 | No |
| 22 | GOM_NL__2PRFIN20090906_030403_000000552082_00175_39307_3993.N1 | 06-SEP-2009 03:04:03 | Tw_i_and_stray | 55.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 110 | 39307 | No |
| 23 | GOM_NL__2PRFIN20090906_031403_000000522082_00175_39307_3994.N1 | 06-SEP-2009 03:14:03 | Dark | 51.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 103 | 39307 | No |
| 24 | GOM_NL__2PRFIN20090906_031530_000000532082_00175_39307_3995.N1 | 06-SEP-2009 03:15:30 | Dark | 53.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 106 | 39307 | No |
| 25 | GOM_NL__2PRFIN20090906_031858_000000662082_00175_39307_3996.N1 | 06-SEP-2009 03:18:58 | Dark | 65.500 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 131 | 39307 | No |
| 26 | GOM_NL__2PRFIN20090906_033350_000000562082_00176_39308_3999.N1 | 06-SEP-2009 03:33:50 | Dark | 56.000 | 157 | The1Eri | 2.9060 | 9300.0 | 112 | 39308 | No |
| 27 | GOM_NL__2PRFIN20090906_034058_000000472082_00176_39308_4000.N1 | 06-SEP-2009 03:40:58 | Straylight | 46.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 93 | 39308 | No |
| 28 | GOM_NL__2PRFIN20090906_040112_000000432082_00176_39308_4001.N1 | 06-SEP-2009 04:01:12 | Bright | 43.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 86 | 39308 | No |
| 29 | GOM_NL__2PRFIN20090906_040526_000000412082_00176_39308_4002.N1 | 06-SEP-2009 04:05:26 | Bright | 40.500 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 81 | 39308 | No |
| 30 | GOM_NL__2PRFIN20090906_041554_000000432082_00176_39308_4003.N1 | 06-SEP-2009 04:15:54 | Bright | 42.500 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 85 | 39308 | No |
| 31 | GOM_NL__2PRFIN20090906_041756_000000452082_00176_39308_4004.N1 | 06-SEP-2009 04:17:56 | Bright | 45.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 90 | 39308 | No |
| 32 | GOM_NL__2PRFIN20090906_043413_000000512082_00176_39308_4005.N1 | 06-SEP-2009 04:34:13 | Bright | 50.500 | 42 | 34Bet Aur | 1.9000 | 10200. | 101 | 39308 | No |
| 33 | GOM_NL__2PRFIN20090906_043714_000000742082_00176_39308_4006.N1 | 06-SEP-2009 04:37:14 | Bright | 74.000 | 107 | 37The Aur | 2.6490 | 11000. | 148 | 39308 | No |
| 34 | GOM_NL__2PRFIN20090906_044248_000000612082_00176_39308_4007.N1 | 06-SEP-2009 04:42:48 | Tw_i_and_stray | 60.500 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 121 | 39308 | No |
| 35 | GOM_NL__2PRFIN20090906_044440_000000522082_00176_39308_4008.N1 | 06-SEP-2009 04:44:40 | Tw_i_and_stray | 51.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 103 | 39308 | No |
| 36 | GOM_NL__2PRFIN20090906_045440_000000582082_00176_39308_4009.N1 | 06-SEP-2009 04:54:40 | Dark | 57.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 115 | 39308 | No |
| 37 | GOM_NL__2PRFIN20090906_045607_000000542082_00176_39308_4010.N1 | 06-SEP-2009 04:56:07 | Dark | 54.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 108 | 39308 | No |
| 38 | GOM_NL__2PRFIN20090906_045935_000000592082_00176_39308_4011.N1 | 06-SEP-2009 04:59:35 | Dark | 58.500 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 117 | 39308 | No |
| 39 | GOM_NL__2PRFIN20090906_051427_000000542082_00177_39309_4022.N1 | 06-SEP-2009 05:14:27 | Dark | 54.000 | 157 | The1Eri | 2.9060 | 9300.0 | 108 | 39309 | No |
| 40 | GOM_NL__2PRFIN20090906_052134_000000482082_00177_39309_4023.N1 | 06-SEP-2009 05:21:34 | Straylight | 48.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 96 | 39309 | No |
| 41 | GOM_NL__2PRFIN20090906_054148_000000442082_00177_39309_4024.N1 | 06-SEP-2009 05:41:48 | Bright | 43.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 87 | 39309 | No |
| 42 | GOM_NL__2PRFIN20090906_054601_000000602082_00177_39309_4025.N1 | 06-SEP-2009 05:46:01 | Bright | 60.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 120 | 39309 | No |

| | | | | | | | | | | | |
|-----|--|----------------------|----------------|--------|-----|-----------|---------|--------|-----|-------|----|
| 43 | GOM_NL__2PRFIN20090906_055630_000000422082_00177_39309_4026.N1 | 06-SEP-2009 05:56:30 | Bright | 42.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 84 | 39309 | No |
| 44 | GOM_NL__2PRFIN20090906_055832_000000442082_00177_39309_4027.N1 | 06-SEP-2009 05:58:32 | Bright | 44.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 88 | 39309 | No |
| 45 | GOM_NL__2PRFIN20090906_061448_000000492082_00177_39309_4028.N1 | 06-SEP-2009 06:14:48 | Bright | 49.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 98 | 39309 | No |
| 46 | GOM_NL__2PRFIN20090906_061750_000000512082_00177_39309_4029.N1 | 06-SEP-2009 06:17:50 | Bright | 51.000 | 107 | 37The Aur | 2.6490 | 11000. | 102 | 39309 | No |
| 47 | GOM_NL__2PRFIN20090906_062325_000000522082_00177_39309_4030.N1 | 06-SEP-2009 06:23:25 | Tw_i_and_stray | 51.500 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 103 | 39309 | No |
| 48 | GOM_NL__2PRFIN20090906_062516_000000482082_00177_39309_4031.N1 | 06-SEP-2009 06:25:16 | Tw_i_and_stray | 48.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 96 | 39309 | No |
| 49 | GOM_NL__2PRFIN20090906_063517_000000462082_00177_39309_4032.N1 | 06-SEP-2009 06:35:17 | Dark | 46.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 92 | 39309 | No |
| 50 | GOM_NL__2PRFIN20090906_063644_000000512082_00177_39309_4033.N1 | 06-SEP-2009 06:36:44 | Dark | 51.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 102 | 39309 | No |
| 51 | GOM_NL__2PRFIN20090906_064012_000000592082_00177_39309_4034.N1 | 06-SEP-2009 06:40:12 | Dark | 58.500 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 117 | 39309 | No |
| 52 | GOM_NL__2PRFIN20090906_065504_000000562082_00178_39310_4042.N1 | 06-SEP-2009 06:55:04 | Dark | 55.500 | 157 | The1Eri | 2.9060 | 9300.0 | 111 | 39310 | No |
| 53 | GOM_NL__2PRFIN20090906_070211_000000472082_00178_39310_4043.N1 | 06-SEP-2009 07:02:11 | Straylight | 47.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 94 | 39310 | No |
| 54 | GOM_NL__2PRFIN20090906_072224_000000442082_00178_39310_4044.N1 | 06-SEP-2009 07:22:24 | Bright | 43.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 87 | 39310 | No |
| 55 | GOM_NL__2PRFIN20090906_072637_000000402082_00178_39310_4045.N1 | 06-SEP-2009 07:26:37 | Bright | 39.500 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 79 | 39310 | No |
| 56 | GOM_NL__2PRFIN20090906_073705_000000432082_00178_39310_4046.N1 | 06-SEP-2009 07:37:05 | Bright | 43.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 86 | 39310 | No |
| 57 | GOM_NL__2PRFIN20090906_073907_000000442082_00178_39310_4047.N1 | 06-SEP-2009 07:39:07 | Bright | 44.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 88 | 39310 | No |
| 58 | GOM_NL__2PRFIN20090906_075524_000000542082_00178_39310_4048.N1 | 06-SEP-2009 07:55:24 | Bright | 54.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 108 | 39310 | No |
| 59 | GOM_NL__2PRFIN20090906_075826_000000512082_00178_39310_4049.N1 | 06-SEP-2009 07:58:26 | Bright | 50.500 | 107 | 37The Aur | 2.6490 | 11000. | 101 | 39310 | No |
| 60 | GOM_NL__2PRFIN20090906_080401_000000622082_00178_39310_4050.N1 | 06-SEP-2009 08:04:01 | Tw_i_and_stray | 62.000 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 124 | 39310 | No |
| 61 | GOM_NL__2PRFIN20090906_080552_000000562082_00178_39310_4051.N1 | 06-SEP-2009 08:05:52 | Tw_i_and_stray | 55.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 111 | 39310 | No |
| 62 | GOM_NL__2PRFIN20090906_081553_000000532082_00178_39310_4052.N1 | 06-SEP-2009 08:15:53 | Dark | 52.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 105 | 39310 | No |
| 63 | GOM_NL__2PRFIN20090906_081721_000000482082_00178_39310_4053.N1 | 06-SEP-2009 08:17:21 | Dark | 47.500 | 47 | 2Bet CMa | 1.9760 | 28000. | 95 | 39310 | No |
| 64 | GOM_NL__2PRFIN20090906_082050_000000612082_00178_39310_4054.N1 | 06-SEP-2009 08:20:50 | Dark | 61.000 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 122 | 39310 | No |
| 65 | GOM_NL__2PRFIN20090906_083541_000000572082_00179_39311_4059.N1 | 06-SEP-2009 08:35:41 | Dark | 56.500 | 157 | The1Eri | 2.9060 | 9300.0 | 113 | 39311 | No |
| 66 | GOM_NL__2PRFIN20090906_084247_000000472082_00179_39311_4060.N1 | 06-SEP-2009 08:42:47 | Straylight | 46.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 93 | 39311 | No |
| 67 | GOM_NL__2PRFIN20090906_090259_000000452082_00179_39311_4061.N1 | 06-SEP-2009 09:02:59 | Bright | 44.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 89 | 39311 | No |
| 68 | GOM_NL__2PRFIN20090906_090712_000000402082_00179_39311_4062.N1 | 06-SEP-2009 09:07:12 | Bright | 40.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 80 | 39311 | No |
| 69 | GOM_NL__2PRFIN20090906_091741_000000402082_00179_39311_4063.N1 | 06-SEP-2009 09:17:41 | Bright | 40.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 80 | 39311 | No |
| 70 | GOM_NL__2PRFIN20090906_091942_000000452082_00179_39311_4064.N1 | 06-SEP-2009 09:19:42 | Bright | 44.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 89 | 39311 | No |
| 71 | GOM_NL__2PRFIN20090906_093600_000000532082_00179_39311_4065.N1 | 06-SEP-2009 09:36:00 | Bright | 53.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 106 | 39311 | No |
| 72 | GOM_NL__2PRFIN20090906_093902_000000522082_00179_39311_4066.N1 | 06-SEP-2009 09:39:02 | Bright | 51.500 | 107 | 37The Aur | 2.6490 | 11000. | 103 | 39311 | No |
| 73 | GOM_NL__2PRFIN20090906_094437_000000632082_00179_39311_4067.N1 | 06-SEP-2009 09:44:37 | Tw_i_and_stray | 63.000 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 126 | 39311 | No |
| 74 | GOM_NL__2PRFIN20090906_094629_000000542082_00179_39311_4068.N1 | 06-SEP-2009 09:46:29 | Tw_i_and_stray | 54.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 108 | 39311 | No |
| 75 | GOM_NL__2PRFIN20090906_095630_000000512082_00179_39311_4069.N1 | 06-SEP-2009 09:56:30 | Dark | 51.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 102 | 39311 | No |
| 76 | GOM_NL__2PRFIN20090906_095758_000000482082_00179_39311_4070.N1 | 06-SEP-2009 09:57:58 | Dark | 47.500 | 47 | 2Bet CMa | 1.9760 | 28000. | 95 | 39311 | No |
| 77 | GOM_NL__2PRFIN20090906_100127_000000622082_00179_39311_4071.N1 | 06-SEP-2009 10:01:27 | Dark | 61.500 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 123 | 39311 | No |
| 78 | GOM_NL__2PRFIN20090906_101618_000000572082_00180_39312_4071.N1 | 06-SEP-2009 10:16:18 | Dark | 56.500 | 157 | The1Eri | 2.9060 | 9300.0 | 113 | 39312 | No |
| 79 | GOM_NL__2PRFIN20090906_102324_000000472082_00180_39312_4072.N1 | 06-SEP-2009 10:23:24 | Straylight | 46.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 93 | 39312 | No |
| 80 | GOM_NL__2PRFIN20090906_104334_000000432082_00180_39312_4073.N1 | 06-SEP-2009 10:43:34 | Bright | 43.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 86 | 39312 | No |
| 81 | GOM_NL__2PRFIN20090906_104748_000000412082_00180_39312_4074.N1 | 06-SEP-2009 10:47:48 | Bright | 40.500 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 81 | 39312 | No |
| 82 | GOM_NL__2PRFIN20090906_105816_000000442082_00180_39312_4075.N1 | 06-SEP-2009 10:58:16 | Bright | 43.500 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 87 | 39312 | No |
| 83 | GOM_NL__2PRFIN20090906_110018_000000462082_00180_39312_4076.N1 | 06-SEP-2009 11:00:18 | Bright | 45.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 91 | 39312 | No |
| 84 | GOM_NL__2PRFIN20090906_111636_000000512082_00180_39312_4077.N1 | 06-SEP-2009 11:16:36 | Bright | 51.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 102 | 39312 | No |
| 85 | GOM_NL__2PRFIN20090906_111937_000000522082_00180_39312_4078.N1 | 06-SEP-2009 11:19:37 | Bright | 51.500 | 107 | 37The Aur | 2.6490 | 11000. | 103 | 39312 | No |
| 86 | GOM_NL__2PRFIN20090906_112351_000000542082_00180_39312_4079.N1 | 06-SEP-2009 11:23:51 | Bright | 53.500 | 170 | 27Eps Gem | 3.0000 | 9700.0 | 107 | 39312 | No |
| 87 | GOM_NL__2PRFIN20090906_112705_000000532082_00180_39312_4080.N1 | 06-SEP-2009 11:27:05 | Tw_i_and_stray | 52.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 105 | 39312 | No |
| 88 | GOM_NL__2PRFIN20090906_113707_000000592082_00180_39312_4081.N1 | 06-SEP-2009 11:37:07 | Dark | 59.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 118 | 39312 | No |
| 89 | GOM_NL__2PRFIN20090906_113834_000000492082_00180_39312_4082.N1 | 06-SEP-2009 11:38:34 | Dark | 49.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 98 | 39312 | No |
| 90 | GOM_NL__2PRFIN20090906_114204_000000622082_00180_39312_4083.N1 | 06-SEP-2009 11:42:04 | Dark | 61.500 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 123 | 39312 | No |
| 91 | GOM_NL__2PRFIN20090906_115655_000000572082_00181_39313_4087.N1 | 06-SEP-2009 11:56:55 | Dark | 57.000 | 157 | The1Eri | 2.9060 | 9300.0 | 114 | 39313 | No |
| 92 | GOM_NL__2PRFIN20090906_120400_000000452082_00181_39313_4088.N1 | 06-SEP-2009 12:04:00 | Straylight | 44.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 89 | 39313 | No |
| 93 | GOM_NL__2PRFIN20090906_122410_000000432082_00181_39313_4089.N1 | 06-SEP-2009 12:24:10 | Bright | 43.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 86 | 39313 | No |
| 94 | GOM_NL__2PRFIN20090906_122823_000000422082_00181_39313_4090.N1 | 06-SEP-2009 12:28:23 | Bright | 42.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 84 | 39313 | No |
| 95 | GOM_NL__2PRFIN20090906_123851_000000442082_00181_39313_4091.N1 | 06-SEP-2009 12:38:51 | Bright | 43.500 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 87 | 39313 | No |
| 96 | GOM_NL__2PRFIN20090906_124053_000000462082_00181_39313_4092.N1 | 06-SEP-2009 12:40:53 | Bright | 46.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 92 | 39313 | No |
| 97 | GOM_NL__2PRFIN20090906_125711_000000522082_00181_39313_4093.N1 | 06-SEP-2009 12:57:11 | Bright | 52.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 104 | 39313 | No |
| 98 | GOM_NL__2PRFIN20090906_130013_000000532082_00181_39313_4094.N1 | 06-SEP-2009 13:00:13 | Bright | 52.500 | 107 | 37The Aur | 2.6490 | 11000. | 105 | 39313 | No |
| 99 | GOM_NL__2PRFIN20090906_130427_000000522082_00181_39313_4095.N1 | 06-SEP-2009 13:04:27 | Bright | 52.000 | 170 | 27Eps Gem | 3.0000 | 9700.0 | 104 | 39313 | No |
| 100 | GOM_NL__2PRFIN20090906_130741_000000542082_00181_39313_4096.N1 | 06-SEP-2009 13:07:41 | Tw_i_and_stray | 53.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 107 | 39313 | No |
| 101 | GOM_NL__2PRFIN20090906_131743_000000522082_00181_39313_4097.N1 | 06-SEP-2009 13:17:43 | Dark | 51.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 103 | 39313 | No |

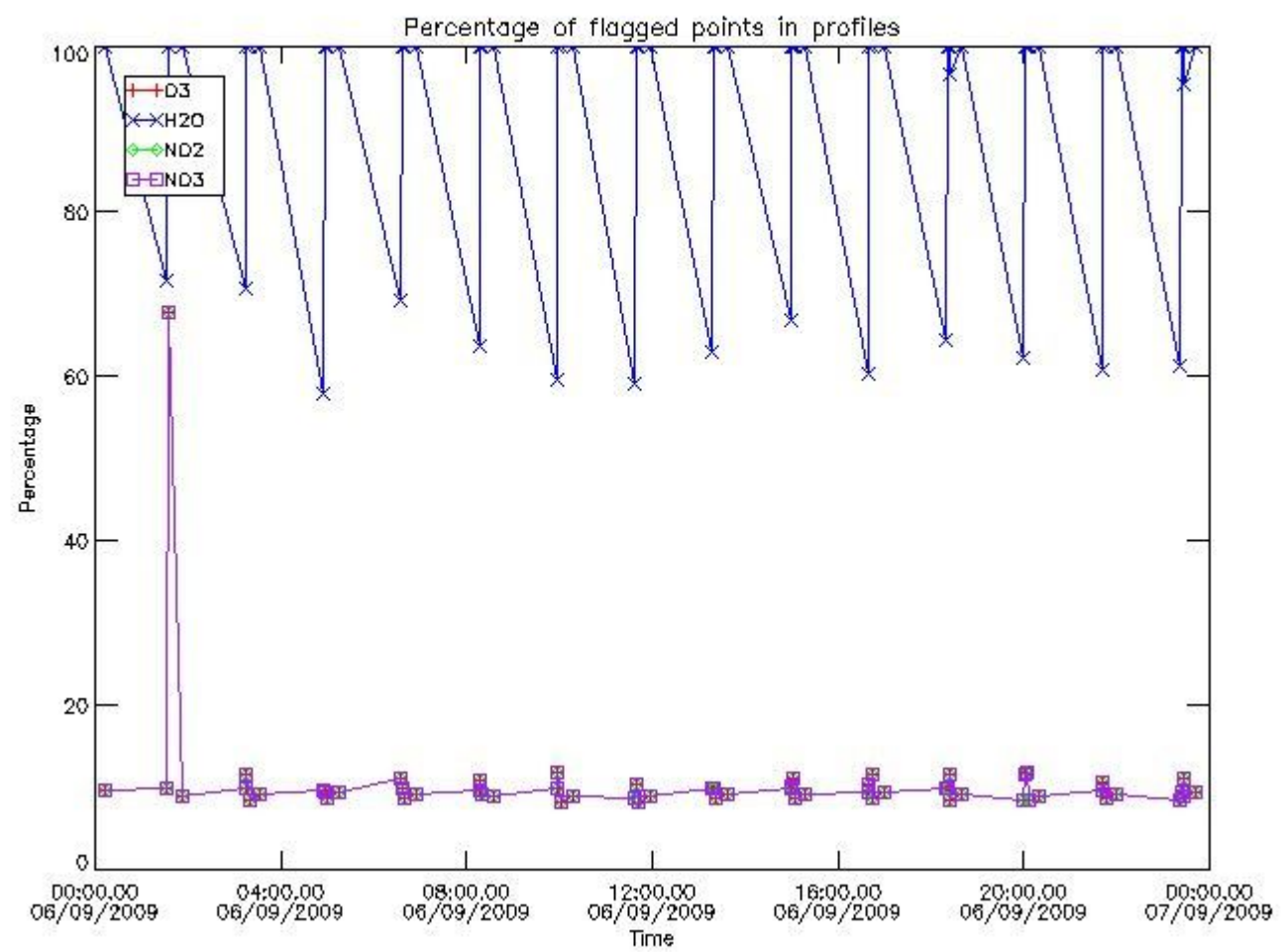
| | | | | | | | | | | | |
|-----|--|----------------------|----------------|--------|-----|-----------|---------|--------|-----|-------|----|
| 102 | GOM_NL__2PRFIN20090906_131911_000000522082_00181_39313_4098.N1 | 06-SEP-2009 13:19:11 | Dark | 52.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 104 | 39313 | No |
| 103 | GOM_NL__2PRFIN20090906_132242_000000592082_00181_39313_4099.N1 | 06-SEP-2009 13:22:42 | Dark | 59.000 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 118 | 39313 | No |
| 104 | GOM_NL__2PRFIN20090906_133732_000000562082_00182_39314_4102.N1 | 06-SEP-2009 13:37:32 | Dark | 56.000 | 157 | The1Eri | 2.9060 | 9300.0 | 112 | 39314 | No |
| 105 | GOM_NL__2PRFIN20090906_134437_000000482082_00182_39314_4103.N1 | 06-SEP-2009 13:44:37 | Straylight | 47.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 95 | 39314 | No |
| 106 | GOM_NL__2PRFIN20090906_140446_000000452082_00182_39314_4104.N1 | 06-SEP-2009 14:04:46 | Bright | 44.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 89 | 39314 | No |
| 107 | GOM_NL__2PRFIN20090906_140859_000000422082_00182_39314_4105.N1 | 06-SEP-2009 14:08:59 | Bright | 41.500 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 83 | 39314 | No |
| 108 | GOM_NL__2PRFIN20090906_141926_000000422082_00182_39314_4106.N1 | 06-SEP-2009 14:19:26 | Bright | 42.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 84 | 39314 | No |
| 109 | GOM_NL__2PRFIN20090906_142128_000000432082_00182_39314_4107.N1 | 06-SEP-2009 14:21:28 | Bright | 43.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 86 | 39314 | No |
| 110 | GOM_NL__2PRFIN20090906_143747_000000492082_00182_39314_4108.N1 | 06-SEP-2009 14:37:47 | Bright | 49.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 98 | 39314 | No |
| 111 | GOM_NL__2PRFIN20090906_144049_000000522082_00182_39314_4109.N1 | 06-SEP-2009 14:40:49 | Bright | 51.500 | 107 | 37The Aur | 2.6490 | 11000. | 103 | 39314 | No |
| 112 | GOM_NL__2PRFIN20090906_144503_000000522082_00182_39314_4110.N1 | 06-SEP-2009 14:45:03 | Bright | 51.500 | 170 | 27Eps Gem | 3.0000 | 9700.0 | 103 | 39314 | No |
| 113 | GOM_NL__2PRFIN20090906_144818_000000532082_00182_39314_4111.N1 | 06-SEP-2009 14:48:18 | Tw_i_and_stray | 52.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 105 | 39314 | No |
| 114 | GOM_NL__2PRFIN20090906_145820_000000522082_00182_39314_4112.N1 | 06-SEP-2009 14:58:20 | Dark | 51.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 103 | 39314 | No |
| 115 | GOM_NL__2PRFIN20090906_145948_000000502082_00182_39314_4113.N1 | 06-SEP-2009 14:59:48 | Dark | 50.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 100 | 39314 | No |
| 116 | GOM_NL__2PRFIN20090906_150253_000000462082_00182_39314_4114.N1 | 06-SEP-2009 15:02:53 | Dark | 45.500 | 177 | 1Zet CMa | 3.0220 | 26000. | 91 | 39314 | No |
| 117 | GOM_NL__2PRFIN20090906_150420_000000582082_00182_39314_4115.N1 | 06-SEP-2009 15:04:20 | Dark | 58.000 | 139 | 9Bet Lep | 2.8330 | 5600.0 | 116 | 39314 | No |
| 118 | GOM_NL__2PRFIN20090906_151809_000000552082_00183_39315_4117.N1 | 06-SEP-2009 15:18:09 | Dark | 55.000 | 157 | The1Eri | 2.9060 | 9300.0 | 110 | 39315 | No |
| 119 | GOM_NL__2PRFIN20090906_152513_000000452082_00183_39315_4118.N1 | 06-SEP-2009 15:25:13 | Straylight | 45.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 90 | 39315 | No |
| 120 | GOM_NL__2PRFIN20090906_154521_000000462082_00183_39315_4119.N1 | 06-SEP-2009 15:45:21 | Bright | 45.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 91 | 39315 | No |
| 121 | GOM_NL__2PRFIN20090906_154934_000000592082_00183_39315_4120.N1 | 06-SEP-2009 15:49:34 | Bright | 59.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 118 | 39315 | No |
| 122 | GOM_NL__2PRFIN20090906_160002_000000442082_00183_39315_4121.N1 | 06-SEP-2009 16:00:02 | Bright | 43.500 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 87 | 39315 | No |
| 123 | GOM_NL__2PRFIN20090906_160203_000000462082_00183_39315_4122.N1 | 06-SEP-2009 16:02:03 | Bright | 45.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 91 | 39315 | No |
| 124 | GOM_NL__2PRFIN20090906_161823_000000502082_00183_39315_4123.N1 | 06-SEP-2009 16:18:23 | Bright | 49.500 | 42 | 34Bet Aur | 1.9000 | 10200. | 99 | 39315 | No |
| 125 | GOM_NL__2PRFIN20090906_162125_000000542082_00183_39315_4124.N1 | 06-SEP-2009 16:21:25 | Bright | 53.500 | 107 | 37The Aur | 2.6490 | 11000. | 107 | 39315 | No |
| 126 | GOM_NL__2PRFIN20090906_162539_000000532082_00183_39315_4125.N1 | 06-SEP-2009 16:25:39 | Bright | 52.500 | 170 | 27Eps Gem | 3.0000 | 9700.0 | 105 | 39315 | No |
| 127 | GOM_NL__2PRFIN20090906_162854_000000552082_00183_39315_4126.N1 | 06-SEP-2009 16:28:54 | Tw_i_and_stray | 55.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 110 | 39315 | No |
| 128 | GOM_NL__2PRFIN20090906_163857_000000552082_00183_39315_4127.N1 | 06-SEP-2009 16:38:57 | Dark | 54.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 109 | 39315 | No |
| 129 | GOM_NL__2PRFIN20090906_164025_000000502082_00183_39315_4128.N1 | 06-SEP-2009 16:40:25 | Dark | 49.500 | 47 | 2Bet CMa | 1.9760 | 28000. | 99 | 39315 | No |
| 130 | GOM_NL__2PRFIN20090906_164330_000000442082_00183_39315_4129.N1 | 06-SEP-2009 16:43:30 | Dark | 44.000 | 177 | 1Zet CMa | 3.0220 | 26000. | 88 | 39315 | No |
| 131 | GOM_NL__2PRFIN20090906_164458_000000592082_00183_39315_4130.N1 | 06-SEP-2009 16:44:58 | Dark | 59.000 | 139 | 9Bet Lep | 2.8330 | 5600.0 | 118 | 39315 | No |
| 132 | GOM_NL__2PRFIN20090906_165846_000000552082_00184_39316_4153.N1 | 06-SEP-2009 16:58:46 | Dark | 54.500 | 157 | The1Eri | 2.9060 | 9300.0 | 109 | 39316 | No |
| 133 | GOM_NL__2PRFIN20090906_170550_000000442082_00184_39316_4154.N1 | 06-SEP-2009 17:05:50 | Straylight | 43.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 87 | 39316 | No |
| 134 | GOM_NL__2PRFIN20090906_172557_000000452082_00184_39316_4155.N1 | 06-SEP-2009 17:25:57 | Bright | 44.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 89 | 39316 | No |
| 135 | GOM_NL__2PRFIN20090906_173010_000000412082_00184_39316_4156.N1 | 06-SEP-2009 17:30:10 | Bright | 40.500 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 81 | 39316 | No |
| 136 | GOM_NL__2PRFIN20090906_174037_000000422082_00184_39316_4157.N1 | 06-SEP-2009 17:40:37 | Bright | 42.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 84 | 39316 | No |
| 137 | GOM_NL__2PRFIN20090906_174239_000000462082_00184_39316_4158.N1 | 06-SEP-2009 17:42:39 | Bright | 46.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 92 | 39316 | No |
| 138 | GOM_NL__2PRFIN20090906_175859_000000522082_00184_39316_4159.N1 | 06-SEP-2009 17:58:59 | Bright | 52.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 104 | 39316 | No |
| 139 | GOM_NL__2PRFIN20090906_180201_000000522082_00184_39316_4160.N1 | 06-SEP-2009 18:02:01 | Bright | 51.500 | 107 | 37The Aur | 2.6490 | 11000. | 103 | 39316 | No |
| 140 | GOM_NL__2PRFIN20090906_180616_000000542082_00184_39316_4161.N1 | 06-SEP-2009 18:06:16 | Bright | 53.500 | 170 | 27Eps Gem | 3.0000 | 9700.0 | 107 | 39316 | No |
| 141 | GOM_NL__2PRFIN20090906_180931_000000562082_00184_39316_4162.N1 | 06-SEP-2009 18:09:31 | Tw_i_and_stray | 56.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 112 | 39316 | No |
| 142 | GOM_NL__2PRFIN20090906_181933_000000512082_00184_39316_4163.N1 | 06-SEP-2009 18:19:33 | Dark | 51.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 102 | 39316 | No |
| 143 | GOM_NL__2PRFIN20090906_182102_000000512082_00184_39316_4164.N1 | 06-SEP-2009 18:21:02 | Dark | 51.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 102 | 39316 | No |
| 144 | GOM_NL__2PRFIN20090906_182407_000000452082_00184_39316_4165.N1 | 06-SEP-2009 18:24:07 | Dark | 44.500 | 177 | 1Zet CMa | 3.0220 | 26000. | 89 | 39316 | No |
| 145 | GOM_NL__2PRFIN20090906_182535_000000612082_00184_39316_4166.N1 | 06-SEP-2009 18:25:35 | Dark | 60.500 | 139 | 9Bet Lep | 2.8330 | 5600.0 | 121 | 39316 | No |
| 146 | GOM_NL__2PRFIN20090906_183923_000000552082_00185_39317_4168.N1 | 06-SEP-2009 18:39:23 | Dark | 55.000 | 157 | The1Eri | 2.9060 | 9300.0 | 110 | 39317 | No |
| 147 | GOM_NL__2PRFIN20090906_184626_000000472082_00185_39317_4169.N1 | 06-SEP-2009 18:46:26 | Straylight | 47.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 94 | 39317 | No |
| 148 | GOM_NL__2PRFIN20090906_190632_000000432082_00185_39317_4170.N1 | 06-SEP-2009 19:06:32 | Bright | 43.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 86 | 39317 | No |
| 149 | GOM_NL__2PRFIN20090906_191046_000000422082_00185_39317_4171.N1 | 06-SEP-2009 19:10:46 | Bright | 41.500 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 83 | 39317 | No |
| 150 | GOM_NL__2PRFIN20090906_192113_000000432082_00185_39317_4172.N1 | 06-SEP-2009 19:21:13 | Bright | 43.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 86 | 39317 | No |
| 151 | GOM_NL__2PRFIN20090906_192314_000000452082_00185_39317_4173.N1 | 06-SEP-2009 19:23:14 | Bright | 45.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 90 | 39317 | No |
| 152 | GOM_NL__2PRFIN20090906_193934_000000522082_00185_39317_4174.N1 | 06-SEP-2009 19:39:34 | Bright | 51.500 | 42 | 34Bet Aur | 1.9000 | 10200. | 103 | 39317 | No |
| 153 | GOM_NL__2PRFIN20090906_194237_000000532082_00185_39317_4175.N1 | 06-SEP-2009 19:42:37 | Bright | 53.000 | 107 | 37The Aur | 2.6490 | 11000. | 106 | 39317 | No |
| 154 | GOM_NL__2PRFIN20090906_194652_000000552082_00185_39317_4176.N1 | 06-SEP-2009 19:46:52 | Bright | 54.500 | 170 | 27Eps Gem | 3.0000 | 9700.0 | 109 | 39317 | No |
| 155 | GOM_NL__2PRFIN20090906_195007_000000562082_00185_39317_4177.N1 | 06-SEP-2009 19:50:07 | Tw_i_and_stray | 56.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 112 | 39317 | No |
| 156 | GOM_NL__2PRFIN20090906_200010_000000602082_00185_39317_4178.N1 | 06-SEP-2009 20:00:10 | Dark | 60.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 120 | 39317 | No |
| 157 | GOM_NL__2PRFIN20090906_200139_000000482082_00185_39317_4179.N1 | 06-SEP-2009 20:01:39 | Dark | 48.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 96 | 39317 | No |
| 158 | GOM_NL__2PRFIN20090906_200444_000000432082_00185_39317_4180.N1 | 06-SEP-2009 20:04:44 | Dark | 43.000 | 177 | 1Zet CMa | 3.0220 | 26000. | 86 | 39317 | No |
| 159 | GOM_NL__2PRFIN20090906_200613_000000612082_00185_39317_4181.N1 | 06-SEP-2009 20:06:13 | Dark | 60.500 | 139 | 9Bet Lep | 2.8330 | 5600.0 | 121 | 39317 | No |
| 160 | GOM_NL__2PRFIN20090906_202001_000000562082_00186_39318_4184.N1 | 06-SEP-2009 20:20:01 | Dark | 56.000 | 157 | The1Eri | 2.9060 | 9300.0 | 112 | 39318 | No |

| | | | | | | | | | | | |
|-----|--|----------------------|----------------|--------|-----|-----------|---------|--------|-----|-------|----|
| 161 | GOM_NL__2PRFIN20090906_202703_000000482082_00186_39318_4185.N1 | 06-SEP-2009 20:27:03 | Straylight | 47.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 95 | 39318 | No |
| 162 | GOM_NL__2PRFIN20090906_204708_000000452082_00186_39318_4186.N1 | 06-SEP-2009 20:47:08 | Bright | 44.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 89 | 39318 | No |
| 163 | GOM_NL__2PRFIN20090906_205121_000000402082_00186_39318_4187.N1 | 06-SEP-2009 20:51:21 | Bright | 39.500 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 79 | 39318 | No |
| 164 | GOM_NL__2PRFIN20090906_210148_000000412082_00186_39318_4188.N1 | 06-SEP-2009 21:01:48 | Bright | 41.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 82 | 39318 | No |
| 165 | GOM_NL__2PRFIN20090906_210349_000000452082_00186_39318_4189.N1 | 06-SEP-2009 21:03:49 | Bright | 44.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 89 | 39318 | No |
| 166 | GOM_NL__2PRFIN20090906_212010_000000532082_00186_39318_4190.N1 | 06-SEP-2009 21:20:10 | Bright | 52.500 | 42 | 34Bet Aur | 1.9000 | 10200. | 105 | 39318 | No |
| 167 | GOM_NL__2PRFIN20090906_212313_000000522082_00186_39318_4191.N1 | 06-SEP-2009 21:23:13 | Bright | 52.000 | 107 | 37The Aur | 2.6490 | 11000. | 104 | 39318 | No |
| 168 | GOM_NL__2PRFIN20090906_212852_000000672082_00186_39318_4192.N1 | 06-SEP-2009 21:28:52 | Tw_i_and_stray | 67.000 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 134 | 39318 | No |
| 169 | GOM_NL__2PRFIN20090906_213044_000000542082_00186_39318_4193.N1 | 06-SEP-2009 21:30:44 | Tw_i_and_stray | 54.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 108 | 39318 | No |
| 170 | GOM_NL__2PRFIN20090906_214047_000000532082_00186_39318_4194.N1 | 06-SEP-2009 21:40:47 | Dark | 52.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 105 | 39318 | No |
| 171 | GOM_NL__2PRFIN20090906_214215_000000482082_00186_39318_4195.N1 | 06-SEP-2009 21:42:15 | Dark | 48.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 96 | 39318 | No |
| 172 | GOM_NL__2PRFIN20090906_214650_000000582082_00186_39318_4196.N1 | 06-SEP-2009 21:46:50 | Dark | 58.000 | 139 | 9Bet Lep | 2.8330 | 5600.0 | 116 | 39318 | No |
| 173 | GOM_NL__2PRFIN20090906_220038_000000562082_00187_39319_4204.N1 | 06-SEP-2009 22:00:38 | Dark | 55.500 | 157 | The1Eri | 2.9060 | 9300.0 | 111 | 39319 | No |
| 174 | GOM_NL__2PRFIN20090906_220739_000000492082_00187_39319_4205.N1 | 06-SEP-2009 22:07:39 | Straylight | 48.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 97 | 39319 | No |
| 175 | GOM_NL__2PRFIN20090906_222744_000000642082_00187_39319_4206.N1 | 06-SEP-2009 22:27:44 | Bright | 64.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 128 | 39319 | No |
| 176 | GOM_NL__2PRFIN20090906_223157_000000402082_00187_39319_4207.N1 | 06-SEP-2009 22:31:57 | Bright | 40.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 80 | 39319 | No |
| 177 | GOM_NL__2PRFIN20090906_224223_000000412082_00187_39319_4208.N1 | 06-SEP-2009 22:42:23 | Bright | 40.500 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 81 | 39319 | No |
| 178 | GOM_NL__2PRFIN20090906_224424_000000412082_00187_39319_4209.N1 | 06-SEP-2009 22:44:24 | Bright | 41.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 82 | 39319 | No |
| 179 | GOM_NL__2PRFIN20090906_230046_000000702082_00187_39319_4210.N1 | 06-SEP-2009 23:00:46 | Bright | 70.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 140 | 39319 | No |
| 180 | GOM_NL__2PRFIN20090906_230349_000000752082_00187_39319_4211.N1 | 06-SEP-2009 23:03:49 | Bright | 75.000 | 107 | 37The Aur | 2.6490 | 11000. | 150 | 39319 | No |
| 181 | GOM_NL__2PRFIN20090906_230928_000000672082_00187_39319_4212.N1 | 06-SEP-2009 23:09:28 | Tw_i_and_stray | 66.500 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 133 | 39319 | No |
| 182 | GOM_NL__2PRFIN20090906_231120_000000552082_00187_39319_4213.N1 | 06-SEP-2009 23:11:20 | Tw_i_and_stray | 55.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 110 | 39319 | No |
| 183 | GOM_NL__2PRFIN20090906_232123_000000612082_00187_39319_4214.N1 | 06-SEP-2009 23:21:23 | Dark | 61.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 122 | 39319 | No |
| 184 | GOM_NL__2PRFIN20090906_232252_000000542082_00187_39319_4215.N1 | 06-SEP-2009 23:22:52 | Dark | 54.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 108 | 39319 | No |
| 185 | GOM_NL__2PRFIN20090906_232557_000000462082_00187_39319_4216.N1 | 06-SEP-2009 23:25:57 | Dark | 46.000 | 177 | 1Zet CMa | 3.0220 | 26000. | 92 | 39319 | No |
| 186 | GOM_NL__2PRFIN20090906_232727_000000572082_00187_39319_4217.N1 | 06-SEP-2009 23:27:27 | Dark | 56.500 | 139 | 9Bet Lep | 2.8330 | 5600.0 | 113 | 39319 | No |
| 187 | GOM_NL__2PRFIN20090906_234114_000000552082_00188_39320_4220.N1 | 06-SEP-2009 23:41:14 | Dark | 54.500 | 157 | The1Eri | 2.9060 | 9300.0 | 109 | 39320 | No |
| 188 | GOM_NL__2PRFIN20090906_234815_000000492082_00188_39320_4221.N1 | 06-SEP-2009 23:48:15 | Straylight | 48.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 97 | 39320 | No |

3. Quality information per product

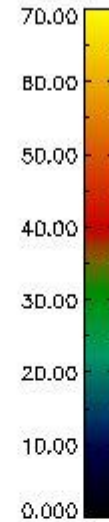
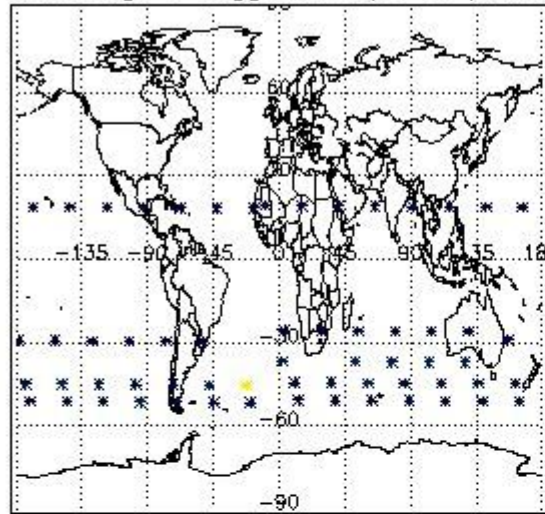
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

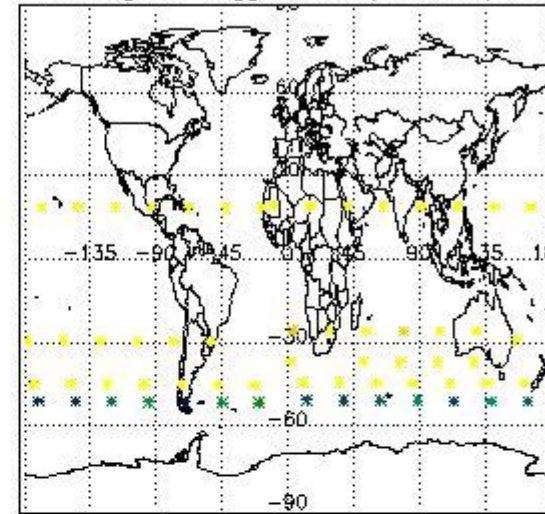


3.2 Plot quality information per product (world map)

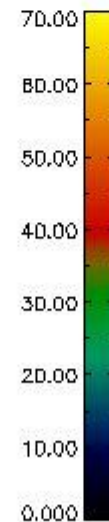
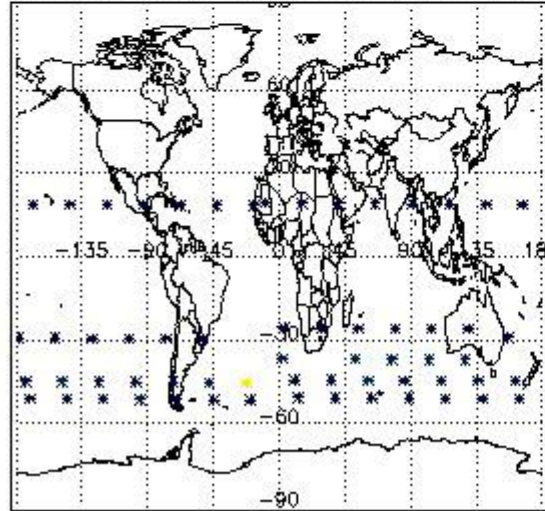
Percentage of flagged data per O3 profile



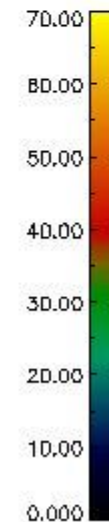
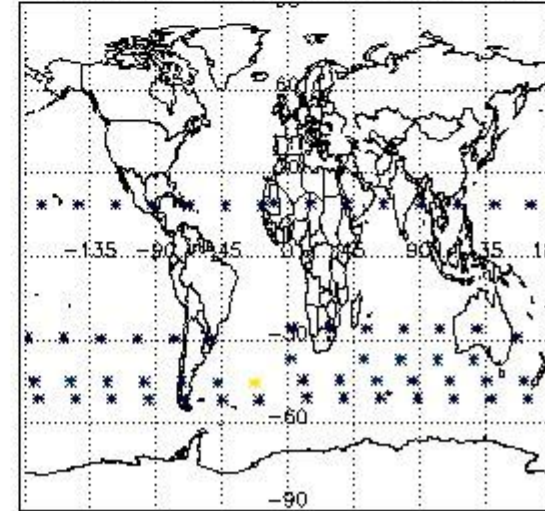
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

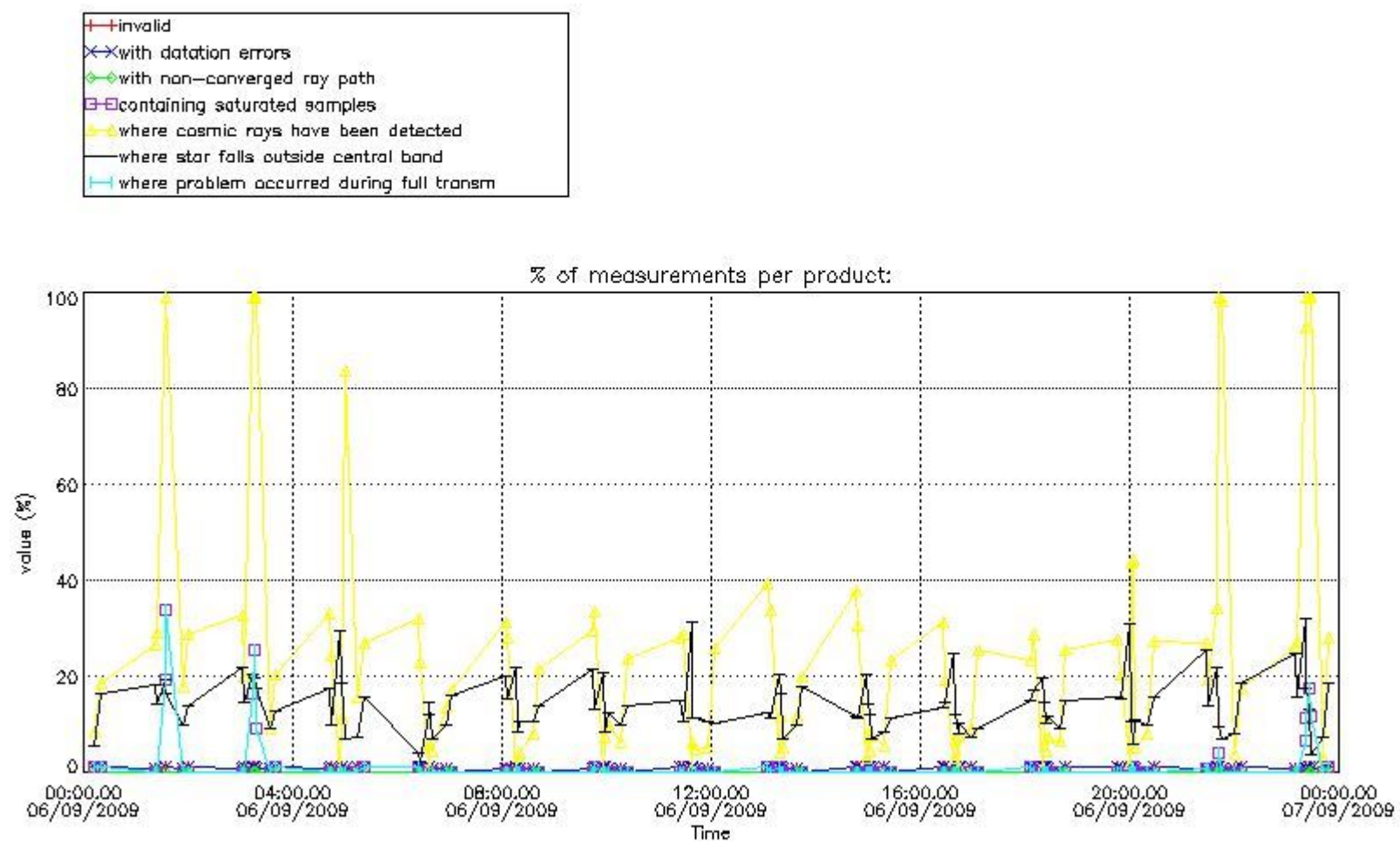


4. Level 1 quality information per product

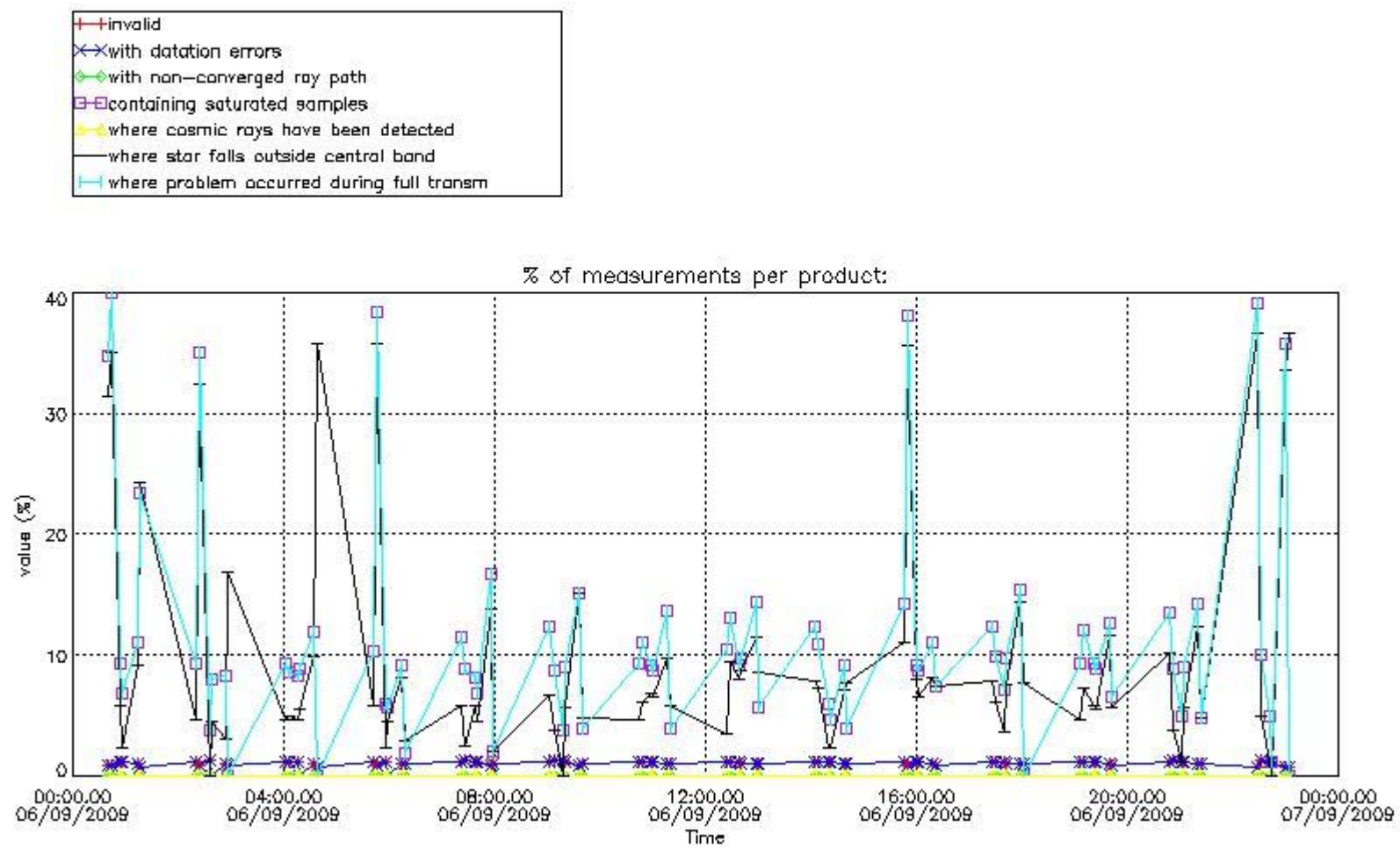
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes



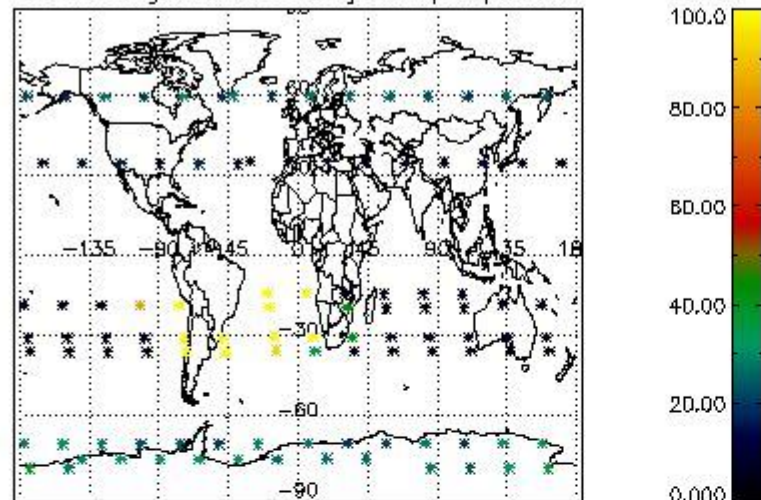
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



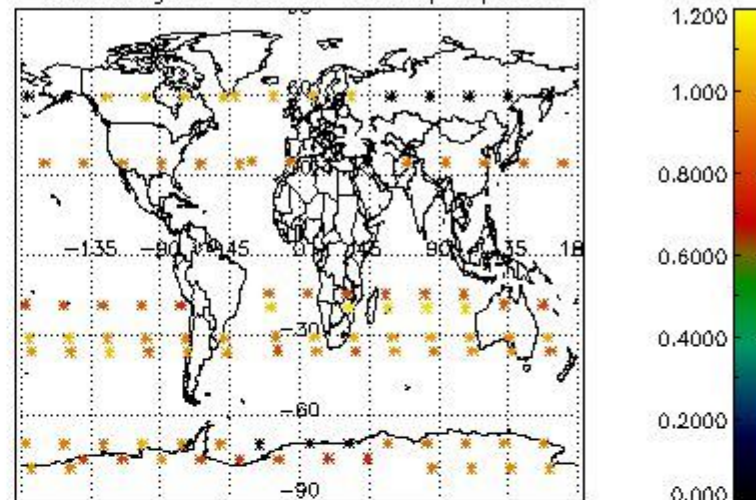
4.2 Plot quality information per product coming from level 1b processing (world map)

4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

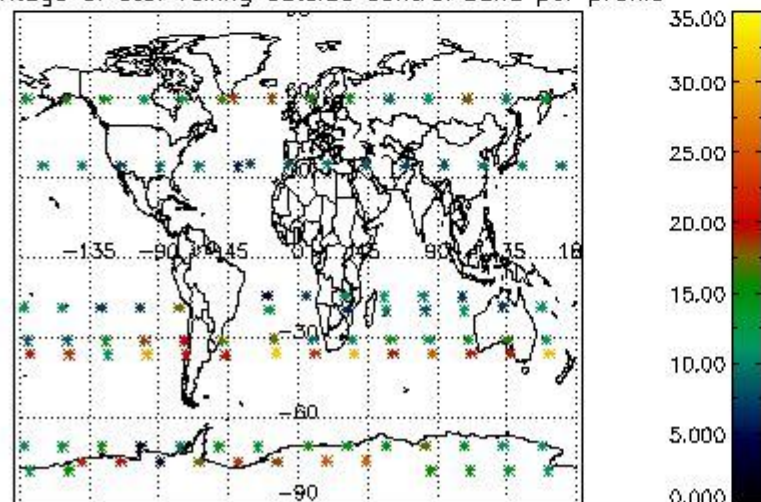
Percentage of cosmic ray hits per profile



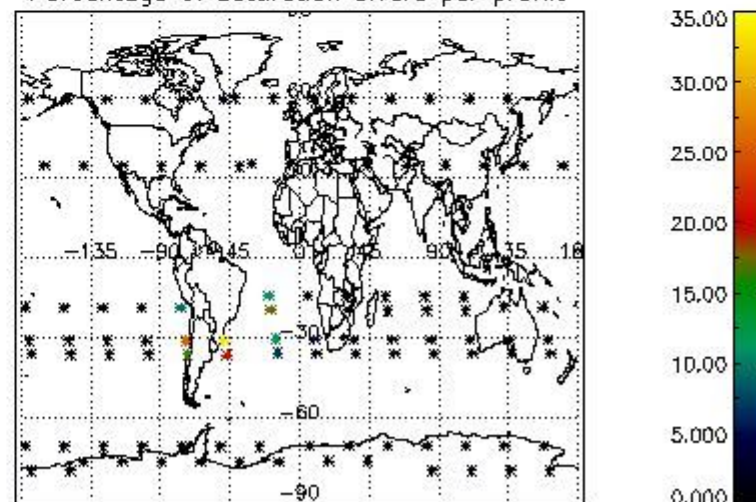
Percentage of datation errors per profile



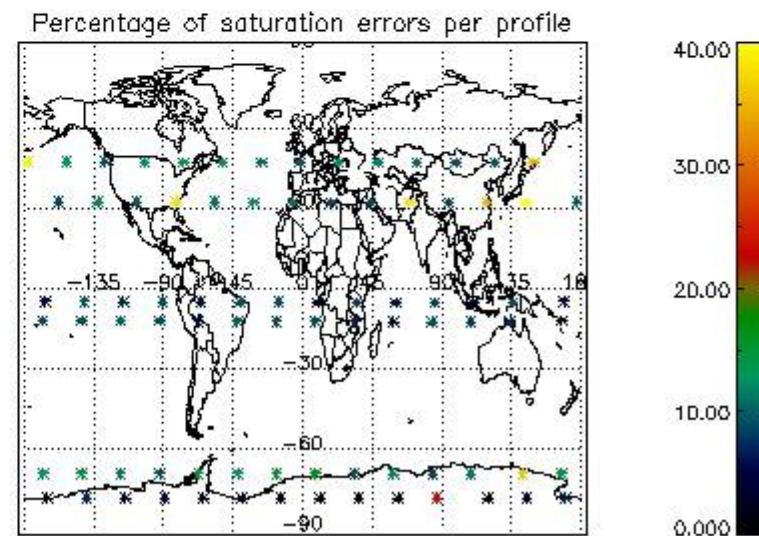
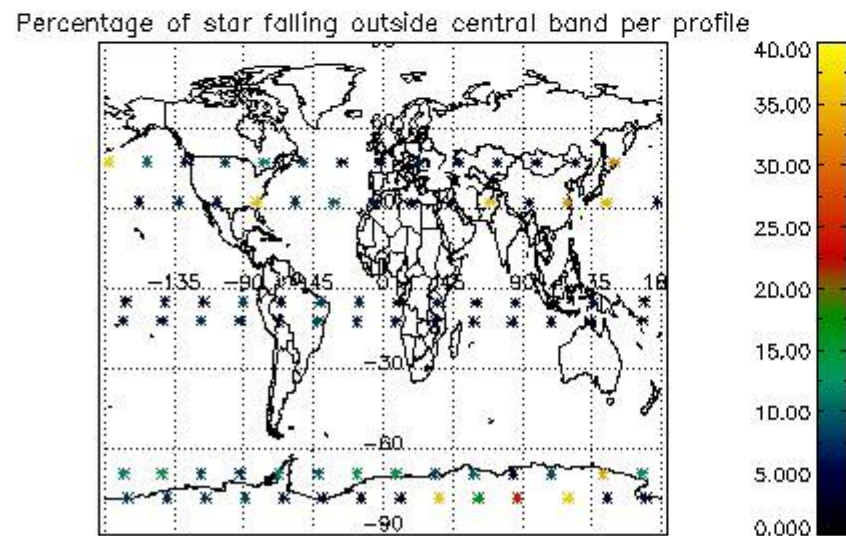
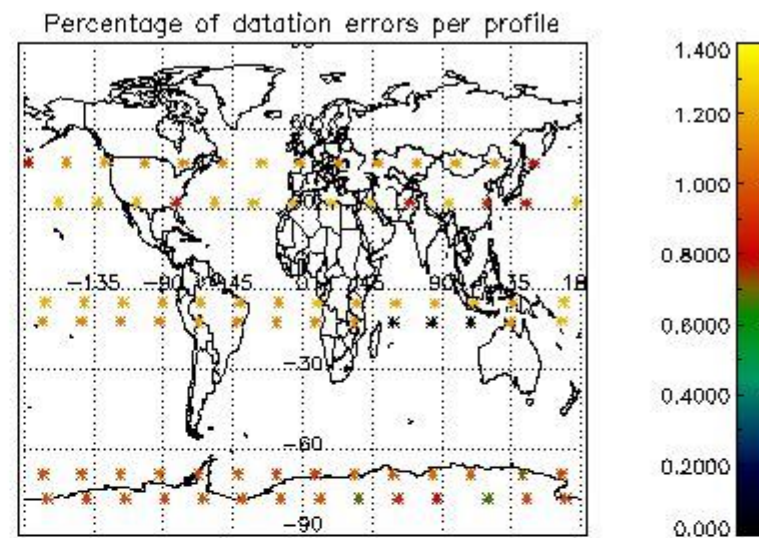
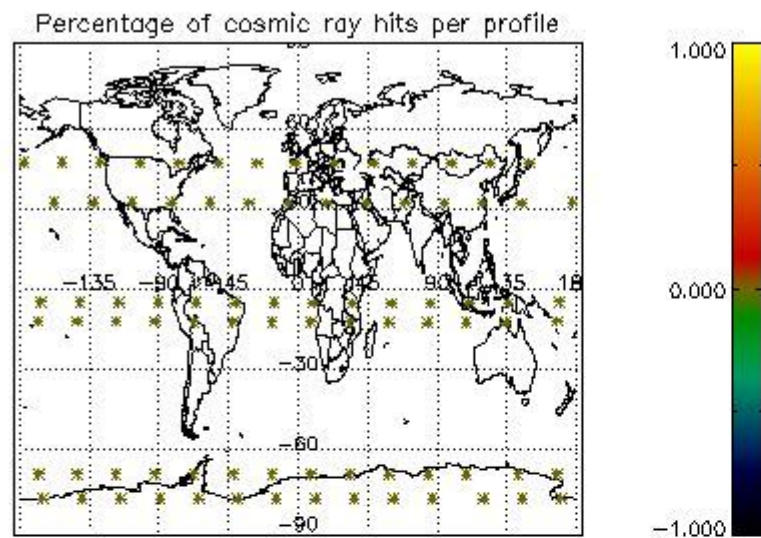
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

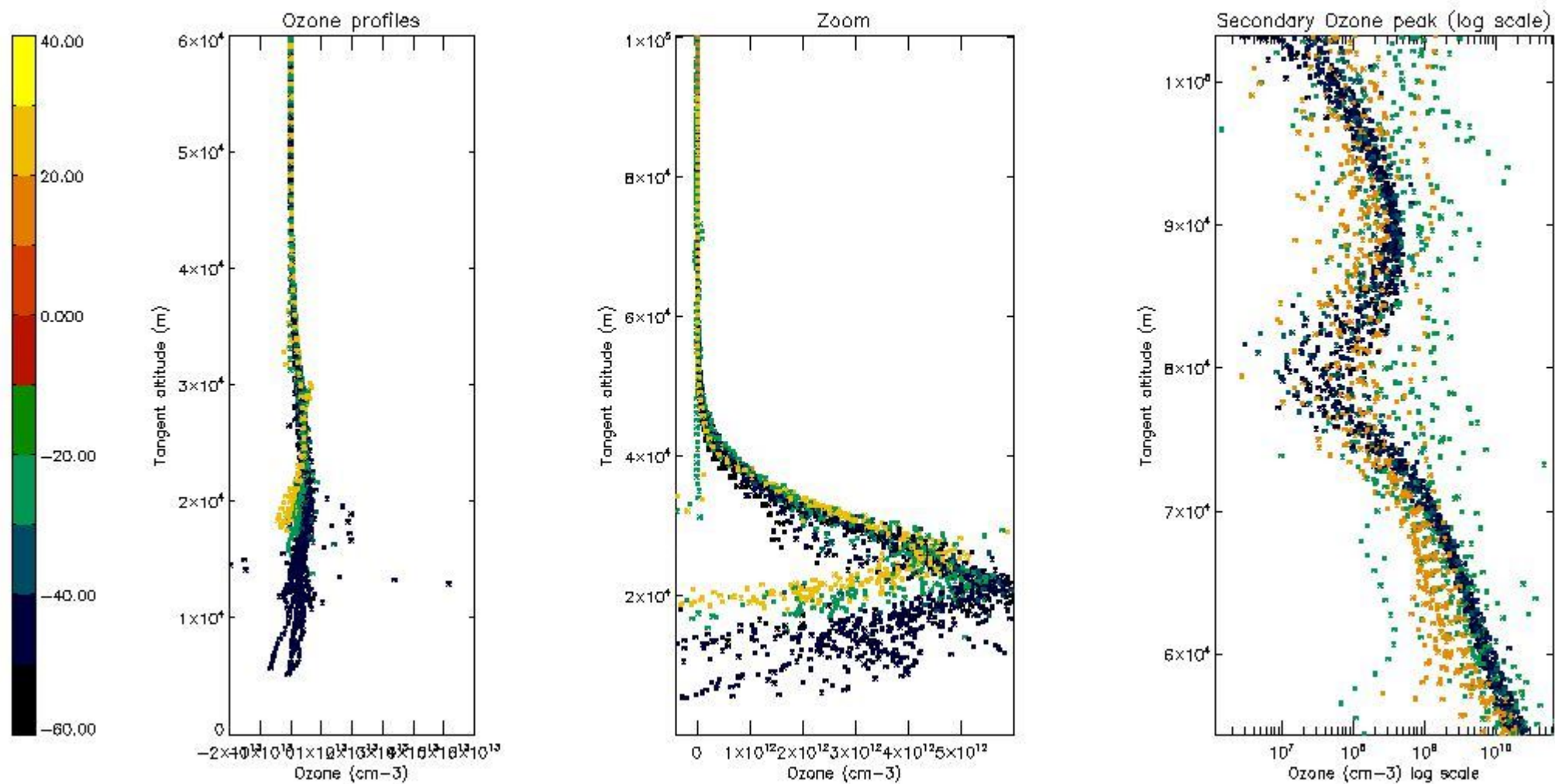
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

| Criteria | % of total production |
|----------|-----------------------|
| All STD | 35 |
| STD < 20 | 19 |

| | |
|----------|----|
| STD < 10 | 15 |
| STD < 5 | 9 |

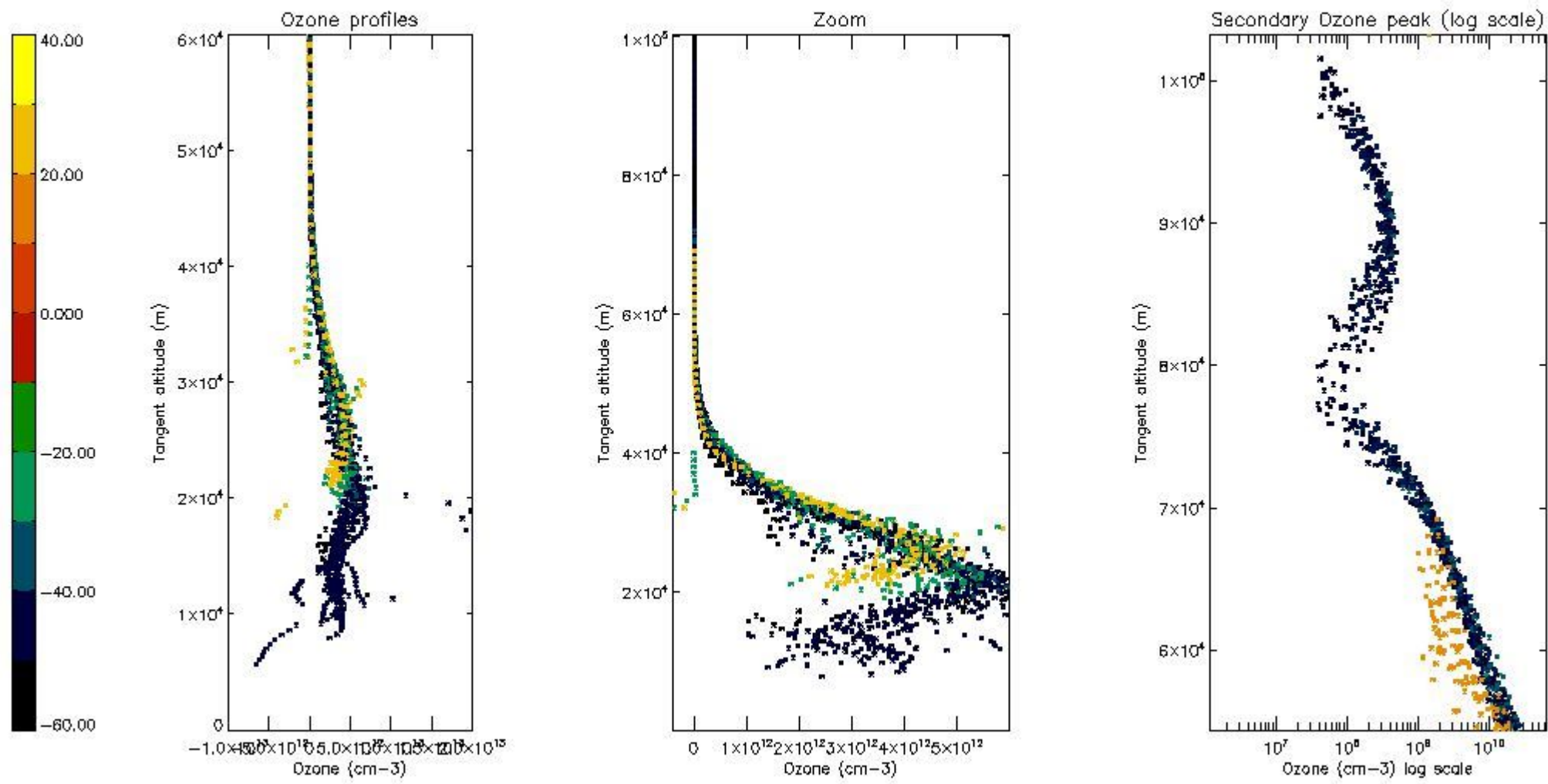
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



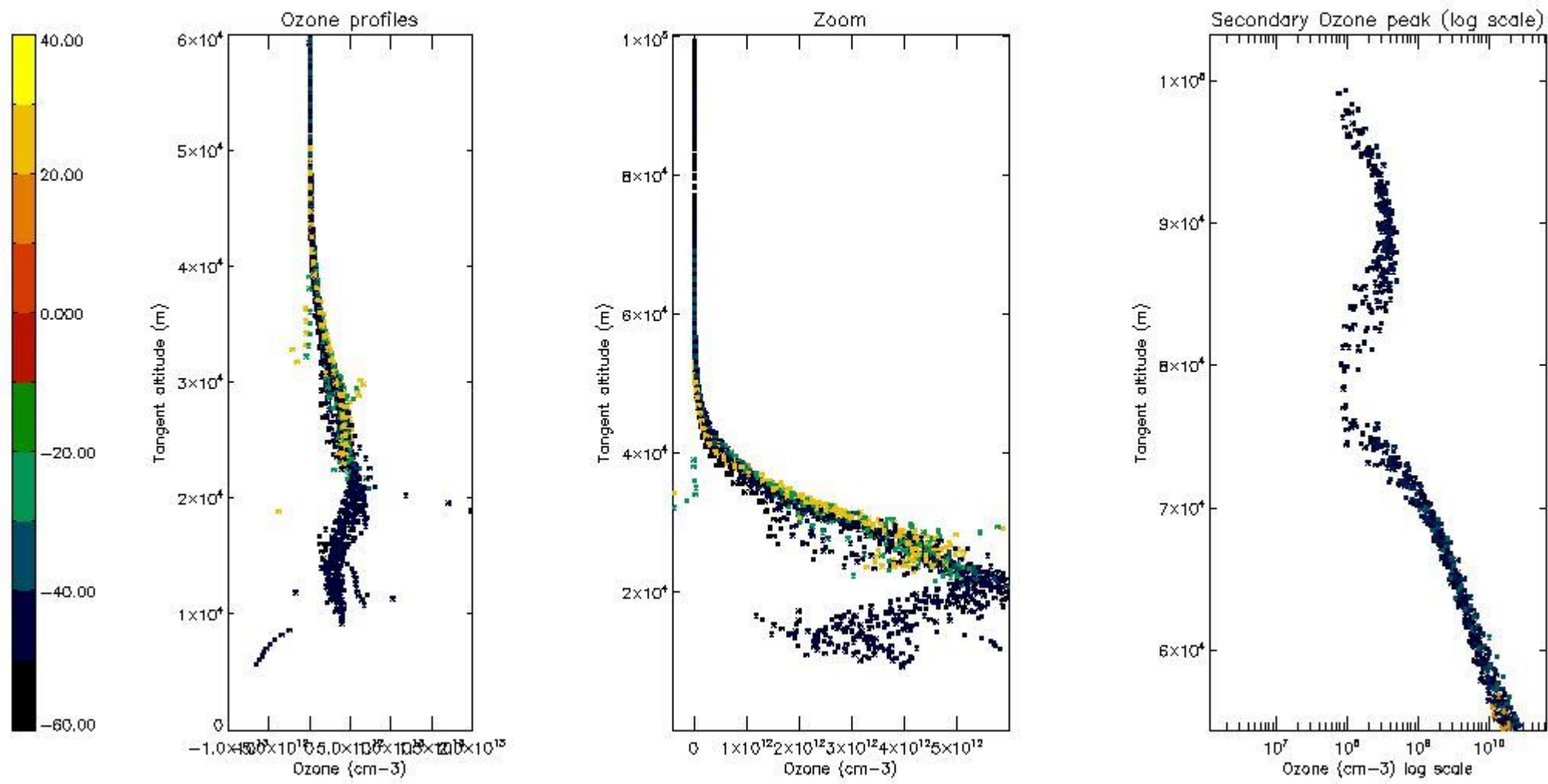
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



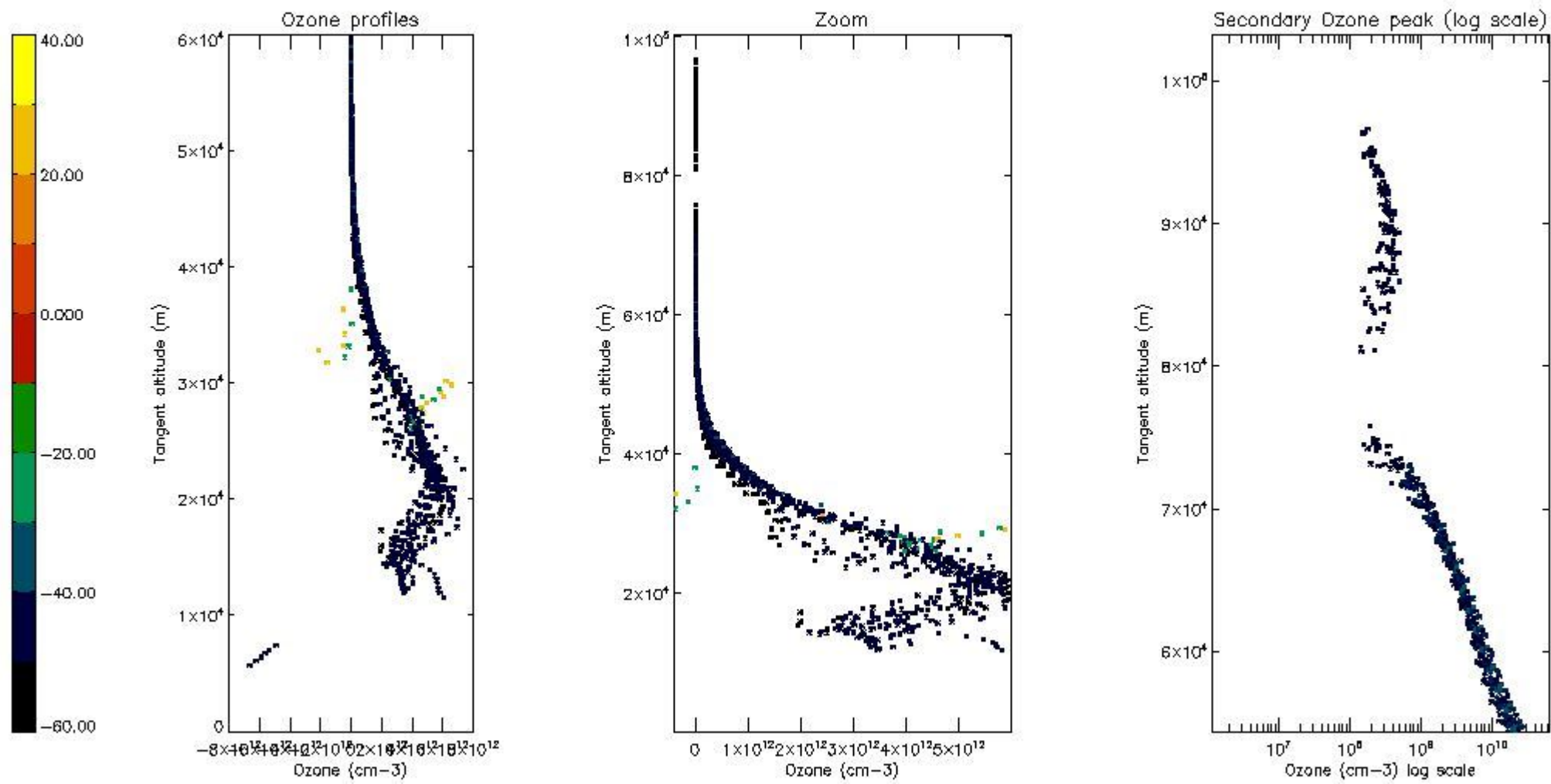
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



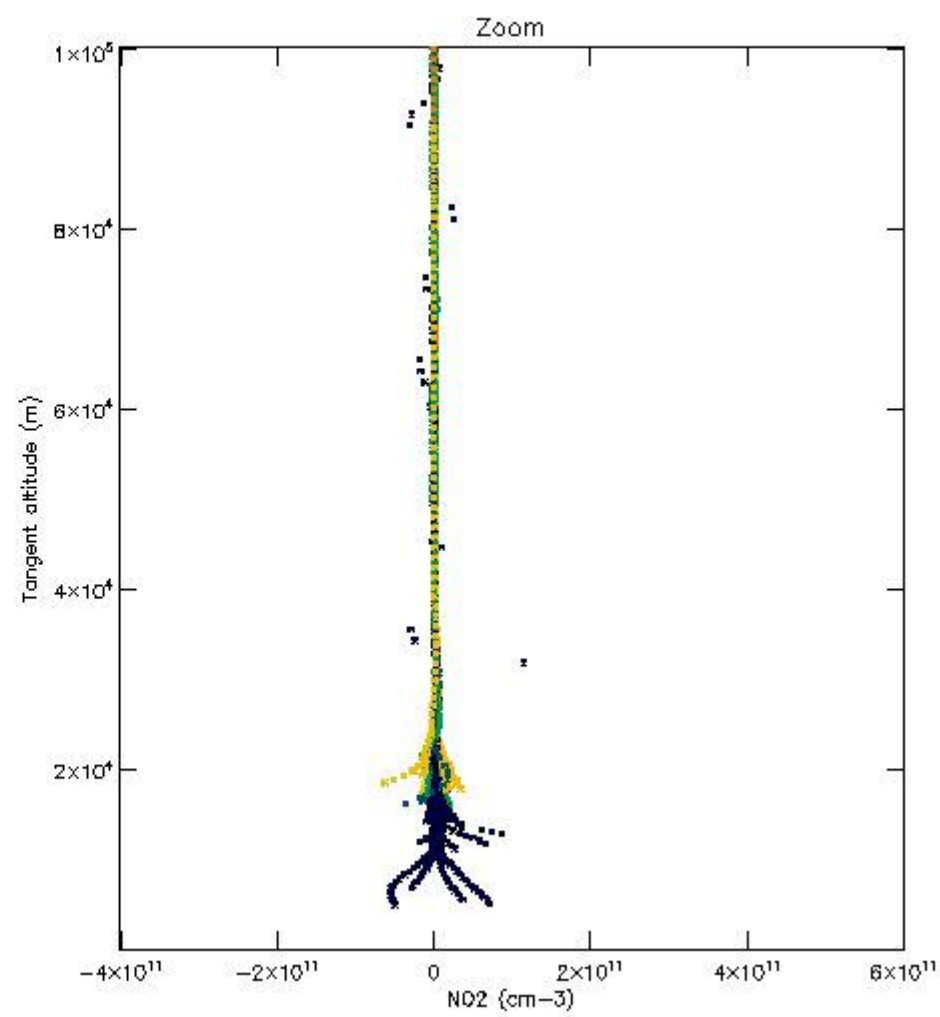
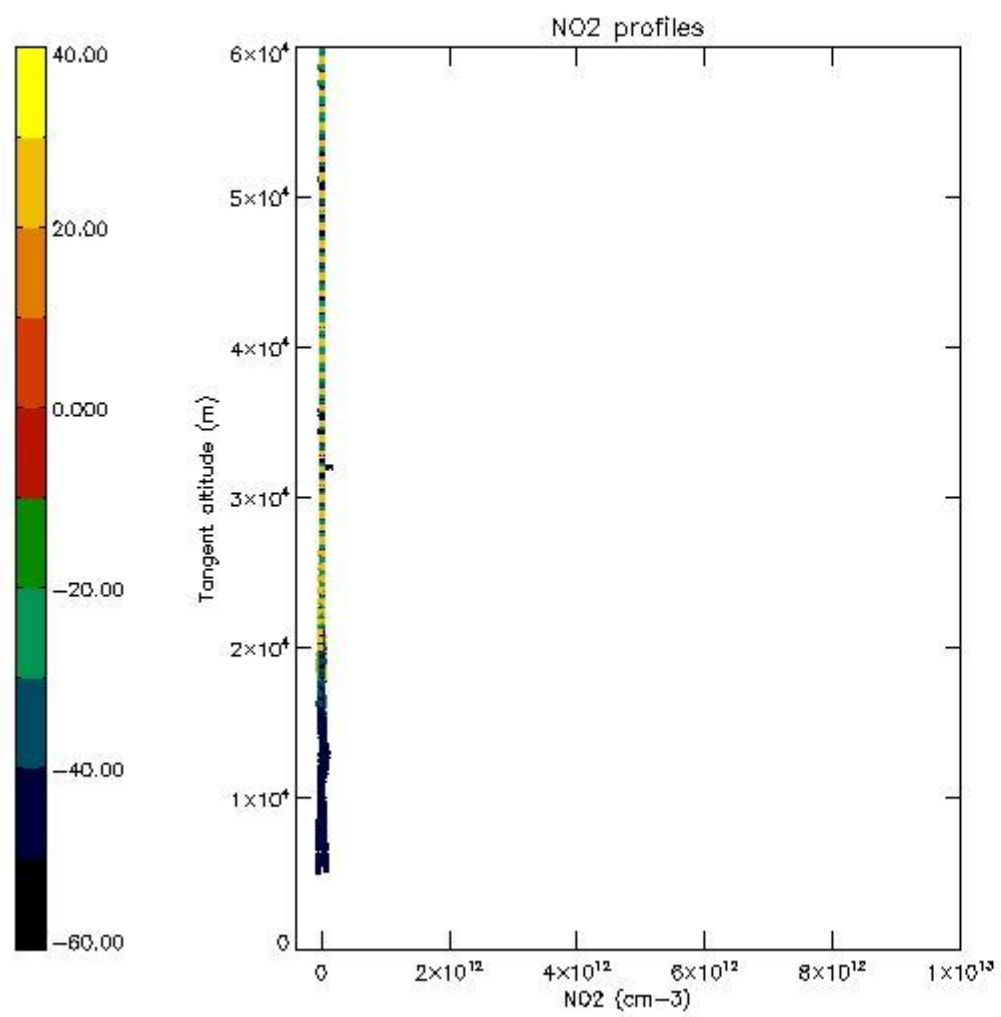
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



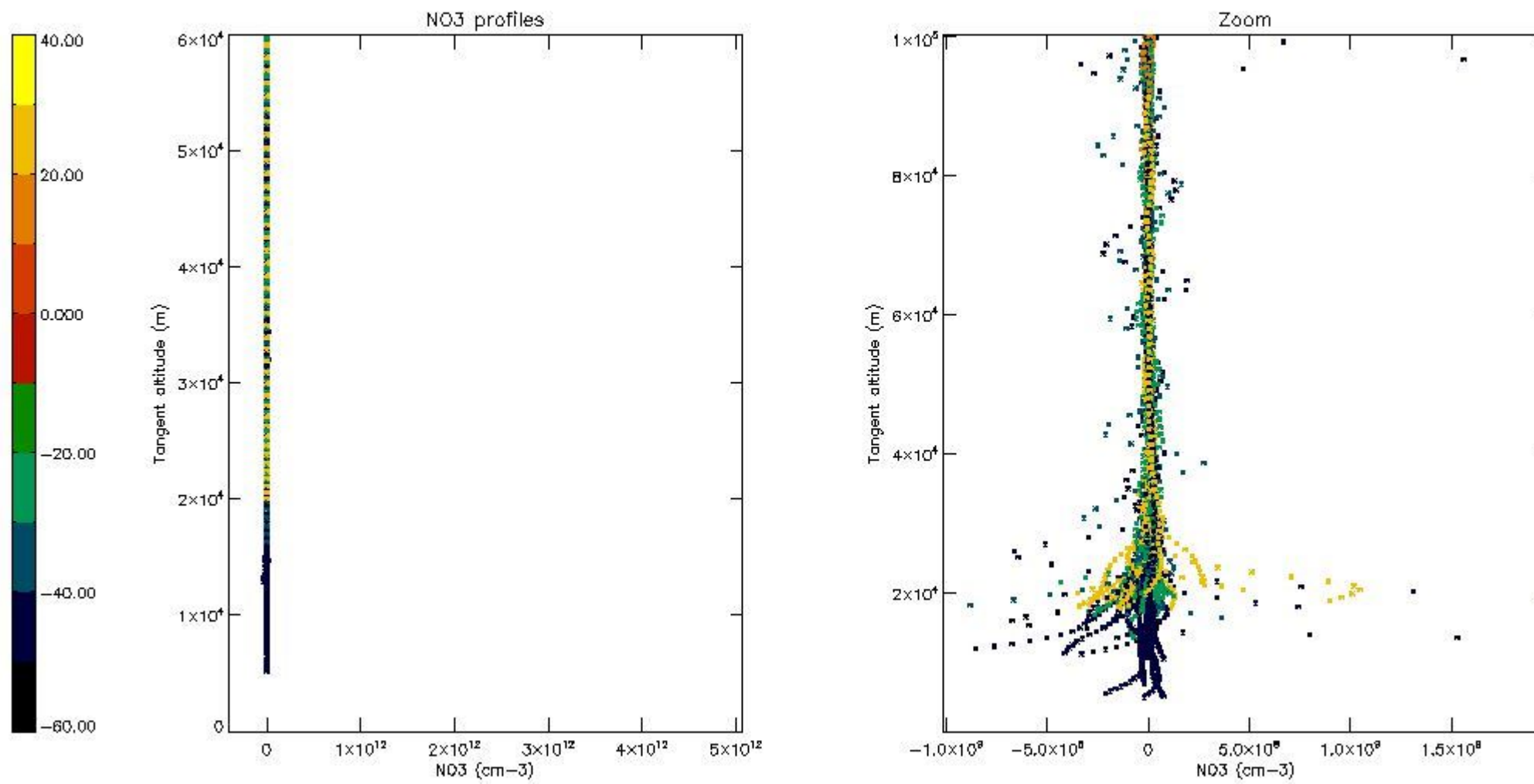
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|---|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000 | 1 | 06-SEP-2009 00:12:35 |
| LEVEL-2_PROC_CONFIG | GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000 | 1 | 06-SEP-2009 00:12:35 |
| CROSS_SECTIONS_FILE | GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000 | 1 | 06-SEP-2009 00:12:35 |

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

[3. Level 2 Quality information per product](#)

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

[4.1 Plot of level 1 quality information per product \(time dependant\)](#)

[4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

[4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

[4.2 Plot of level 1 quality information per product \(world map\)](#)

[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

[4.2.2 Plot of level 1 quality information per product \(world map\): DESCENDING](#)

[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

[5.1 Ozone statistics based on quality of products](#)

[5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

[5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

[5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

[5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

[6. Auxiliary Data Files used for the production reported in section 2](#)

This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

| Item | Value |
|---------------------------|---------------------------------|
| Time of report generation | 26APR2013 12:31:02 |
| Data source version | GOMOS/6.01 |
| Start time of products | 06-09-2009 (06SEP2009 00:00:00) |
| Stop time of products | 07-09-2009 (07SEP2009 00:00:00) |
| Store outputs in DB | Yes |
| Nb of level 2 prods | 188 |
| Nb of prods with errors | 0 |

2. Summary of processed GOM_NL__2P products.

| Nr | Filename | UTC Start time | Limb | Duration | Star Id | Star Name | Star Mag | Star Temp | Nb Meas | Orbit | Prod. error |
|----|--|----------------------|----------------|----------|---------|-----------|----------|-----------|---------|-------|-------------|
| 1 | GOM_NL__2PRFIN20090906_001235_000000542082_00174_39306_3970.N1 | 06-SEP-2009 00:12:35 | Dark | 53.500 | 157 | The1Eri | 2.9060 | 9300.0 | 107 | 39306 | No |
| 2 | GOM_NL__2PRFIN20090906_001945_000000492082_00174_39306_3971.N1 | 06-SEP-2009 00:19:45 | Straylight | 48.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 97 | 39306 | No |
| 3 | GOM_NL__2PRFIN20090906_004001_000000612082_00174_39306_3972.N1 | 06-SEP-2009 00:40:01 | Bright | 60.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 121 | 39306 | No |
| 4 | GOM_NL__2PRFIN20090906_004414_000000602082_00174_39306_3973.N1 | 06-SEP-2009 00:44:14 | Bright | 60.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 120 | 39306 | No |
| 5 | GOM_NL__2PRFIN20090906_005443_000000432082_00174_39306_3974.N1 | 06-SEP-2009 00:54:43 | Bright | 43.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 86 | 39306 | No |
| 6 | GOM_NL__2PRFIN20090906_005646_000000442082_00174_39306_3975.N1 | 06-SEP-2009 00:56:46 | Bright | 43.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 87 | 39306 | No |
| 7 | GOM_NL__2PRFIN20090906_011301_000000502082_00174_39306_3976.N1 | 06-SEP-2009 01:13:01 | Bright | 49.500 | 42 | 34Bet Aur | 1.9000 | 10200. | 99 | 39306 | No |
| 8 | GOM_NL__2PRFIN20090906_011602_000000642082_00174_39306_3977.N1 | 06-SEP-2009 01:16:02 | Bright | 64.000 | 107 | 37The Aur | 2.6490 | 11000. | 128 | 39306 | No |
| 9 | GOM_NL__2PRFIN20090906_012135_000000602082_00174_39306_3978.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_NL__2PRFIN20090906_012327_000000542082_00174_39306_3979.N1 | 06-SEP-2009 01:23:27 | Tw_i_and_stray | 53.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 107 | 39306 | No |
| 11 | GOM_NL__2PRFIN20090906_013326_000000522082_00174_39306_3980.N1 | 06-SEP-2009 01:33:26 | Dark | 51.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 103 | 39306 | No |
| 12 | GOM_NL__2PRFIN20090906_013453_000000522082_00174_39306_3981.N1 | 06-SEP-2009 01:34:53 | Dark | 51.500 | 47 | 2Bet CMa | 1.9760 | 28000. | 103 | 39306 | No |
| 13 | GOM_NL__2PRFIN20090906_015312_000000572082_00175_39307_3984.N1 | 06-SEP-2009 01:53:12 | Dark | 56.500 | 157 | The1Eri | 2.9060 | 9300.0 | 113 | 39307 | No |
| 14 | GOM_NL__2PRFIN20090906_020021_000000472082_00175_39307_3985.N1 | 06-SEP-2009 02:00:21 | Straylight | 47.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 94 | 39307 | No |
| 15 | GOM_NL__2PRFIN20090906_022037_000000432082_00175_39307_3986.N1 | 06-SEP-2009 02:20:37 | Bright | 43.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 86 | 39307 | No |
| 16 | GOM_NL__2PRFIN20090906_022450_000000572082_00175_39307_3987.N1 | 06-SEP-2009 02:24:50 | Bright | 57.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 114 | 39307 | No |
| 17 | GOM_NL__2PRFIN20090906_023519_000000402082_00175_39307_3988.N1 | 06-SEP-2009 02:35:19 | Bright | 40.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 80 | 39307 | No |
| 18 | GOM_NL__2PRFIN20090906_023721_000000442082_00175_39307_3989.N1 | 06-SEP-2009 02:37:21 | Bright | 44.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 88 | 39307 | No |
| 19 | GOM_NL__2PRFIN20090906_025337_000000482082_00175_39307_3990.N1 | 06-SEP-2009 02:53:37 | Bright | 48.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 96 | 39307 | No |
| 20 | GOM_NL__2PRFIN20090906_025638_000000572082_00175_39307_3991.N1 | 06-SEP-2009 02:56:38 | Bright | 56.500 | 107 | 37The Aur | 2.6490 | 11000. | 113 | 39307 | No |
| 21 | GOM_NL__2PRFIN20090906_030212_000000642082_00175_39307_3992.N1 | 06-SEP-2009 03:02:12 | Tw_i_and_stray | 64.000 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 128 | 39307 | No |
| 22 | GOM_NL__2PRFIN20090906_030403_000000552082_00175_39307_3993.N1 | 06-SEP-2009 03:04:03 | Tw_i_and_stray | 55.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 110 | 39307 | No |
| 23 | GOM_NL__2PRFIN20090906_031403_000000522082_00175_39307_3994.N1 | 06-SEP-2009 03:14:03 | Dark | 51.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 103 | 39307 | No |
| 24 | GOM_NL__2PRFIN20090906_031530_000000532082_00175_39307_3995.N1 | 06-SEP-2009 03:15:30 | Dark | 53.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 106 | 39307 | No |
| 25 | GOM_NL__2PRFIN20090906_031858_000000662082_00175_39307_3996.N1 | 06-SEP-2009 03:18:58 | Dark | 65.500 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 131 | 39307 | No |
| 26 | GOM_NL__2PRFIN20090906_033350_000000562082_00176_39308_3999.N1 | 06-SEP-2009 03:33:50 | Dark | 56.000 | 157 | The1Eri | 2.9060 | 9300.0 | 112 | 39308 | No |
| 27 | GOM_NL__2PRFIN20090906_034058_000000472082_00176_39308_4000.N1 | 06-SEP-2009 03:40:58 | Straylight | 46.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 93 | 39308 | No |
| 28 | GOM_NL__2PRFIN20090906_040112_000000432082_00176_39308_4001.N1 | 06-SEP-2009 04:01:12 | Bright | 43.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 86 | 39308 | No |
| 29 | GOM_NL__2PRFIN20090906_040526_000000412082_00176_39308_4002.N1 | 06-SEP-2009 04:05:26 | Bright | 40.500 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 81 | 39308 | No |
| 30 | GOM_NL__2PRFIN20090906_041554_000000432082_00176_39308_4003.N1 | 06-SEP-2009 04:15:54 | Bright | 42.500 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 85 | 39308 | No |
| 31 | GOM_NL__2PRFIN20090906_041756_000000452082_00176_39308_4004.N1 | 06-SEP-2009 04:17:56 | Bright | 45.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 90 | 39308 | No |
| 32 | GOM_NL__2PRFIN20090906_043413_000000512082_00176_39308_4005.N1 | 06-SEP-2009 04:34:13 | Bright | 50.500 | 42 | 34Bet Aur | 1.9000 | 10200. | 101 | 39308 | No |
| 33 | GOM_NL__2PRFIN20090906_043714_000000742082_00176_39308_4006.N1 | 06-SEP-2009 04:37:14 | Bright | 74.000 | 107 | 37The Aur | 2.6490 | 11000. | 148 | 39308 | No |
| 34 | GOM_NL__2PRFIN20090906_044248_000000612082_00176_39308_4007.N1 | 06-SEP-2009 04:42:48 | Tw_i_and_stray | 60.500 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 121 | 39308 | No |
| 35 | GOM_NL__2PRFIN20090906_044440_000000522082_00176_39308_4008.N1 | 06-SEP-2009 04:44:40 | Tw_i_and_stray | 51.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 103 | 39308 | No |
| 36 | GOM_NL__2PRFIN20090906_045440_000000582082_00176_39308_4009.N1 | 06-SEP-2009 04:54:40 | Dark | 57.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 115 | 39308 | No |
| 37 | GOM_NL__2PRFIN20090906_045607_000000542082_00176_39308_4010.N1 | 06-SEP-2009 04:56:07 | Dark | 54.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 108 | 39308 | No |
| 38 | GOM_NL__2PRFIN20090906_045935_000000592082_00176_39308_4011.N1 | 06-SEP-2009 04:59:35 | Dark | 58.500 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 117 | 39308 | No |
| 39 | GOM_NL__2PRFIN20090906_051427_000000542082_00177_39309_4022.N1 | 06-SEP-2009 05:14:27 | Dark | 54.000 | 157 | The1Eri | 2.9060 | 9300.0 | 108 | 39309 | No |
| 40 | GOM_NL__2PRFIN20090906_052134_000000482082_00177_39309_4023.N1 | 06-SEP-2009 05:21:34 | Straylight | 48.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 96 | 39309 | No |
| 41 | GOM_NL__2PRFIN20090906_054148_000000442082_00177_39309_4024.N1 | 06-SEP-2009 05:41:48 | Bright | 43.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 87 | 39309 | No |
| 42 | GOM_NL__2PRFIN20090906_054601_000000602082_00177_39309_4025.N1 | 06-SEP-2009 05:46:01 | Bright | 60.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 120 | 39309 | No |

| | | | | | | | | | | | |
|-----|--|----------------------|----------------|--------|-----|-----------|---------|--------|-----|-------|----|
| 43 | GOM_NL__2PRFIN20090906_055630_000000422082_00177_39309_4026.N1 | 06-SEP-2009 05:56:30 | Bright | 42.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 84 | 39309 | No |
| 44 | GOM_NL__2PRFIN20090906_055832_000000442082_00177_39309_4027.N1 | 06-SEP-2009 05:58:32 | Bright | 44.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 88 | 39309 | No |
| 45 | GOM_NL__2PRFIN20090906_061448_000000492082_00177_39309_4028.N1 | 06-SEP-2009 06:14:48 | Bright | 49.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 98 | 39309 | No |
| 46 | GOM_NL__2PRFIN20090906_061750_000000512082_00177_39309_4029.N1 | 06-SEP-2009 06:17:50 | Bright | 51.000 | 107 | 37The Aur | 2.6490 | 11000. | 102 | 39309 | No |
| 47 | GOM_NL__2PRFIN20090906_062325_000000522082_00177_39309_4030.N1 | 06-SEP-2009 06:23:25 | Tw_i_and_stray | 51.500 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 103 | 39309 | No |
| 48 | GOM_NL__2PRFIN20090906_062516_000000482082_00177_39309_4031.N1 | 06-SEP-2009 06:25:16 | Tw_i_and_stray | 48.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 96 | 39309 | No |
| 49 | GOM_NL__2PRFIN20090906_063517_000000462082_00177_39309_4032.N1 | 06-SEP-2009 06:35:17 | Dark | 46.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 92 | 39309 | No |
| 50 | GOM_NL__2PRFIN20090906_063644_000000512082_00177_39309_4033.N1 | 06-SEP-2009 06:36:44 | Dark | 51.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 102 | 39309 | No |
| 51 | GOM_NL__2PRFIN20090906_064012_000000592082_00177_39309_4034.N1 | 06-SEP-2009 06:40:12 | Dark | 58.500 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 117 | 39309 | No |
| 52 | GOM_NL__2PRFIN20090906_065504_000000562082_00178_39310_4042.N1 | 06-SEP-2009 06:55:04 | Dark | 55.500 | 157 | The1Eri | 2.9060 | 9300.0 | 111 | 39310 | No |
| 53 | GOM_NL__2PRFIN20090906_070211_000000472082_00178_39310_4043.N1 | 06-SEP-2009 07:02:11 | Straylight | 47.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 94 | 39310 | No |
| 54 | GOM_NL__2PRFIN20090906_072224_000000442082_00178_39310_4044.N1 | 06-SEP-2009 07:22:24 | Bright | 43.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 87 | 39310 | No |
| 55 | GOM_NL__2PRFIN20090906_072637_000000402082_00178_39310_4045.N1 | 06-SEP-2009 07:26:37 | Bright | 39.500 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 79 | 39310 | No |
| 56 | GOM_NL__2PRFIN20090906_073705_000000432082_00178_39310_4046.N1 | 06-SEP-2009 07:37:05 | Bright | 43.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 86 | 39310 | No |
| 57 | GOM_NL__2PRFIN20090906_073907_000000442082_00178_39310_4047.N1 | 06-SEP-2009 07:39:07 | Bright | 44.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 88 | 39310 | No |
| 58 | GOM_NL__2PRFIN20090906_075524_000000542082_00178_39310_4048.N1 | 06-SEP-2009 07:55:24 | Bright | 54.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 108 | 39310 | No |
| 59 | GOM_NL__2PRFIN20090906_075826_000000512082_00178_39310_4049.N1 | 06-SEP-2009 07:58:26 | Bright | 50.500 | 107 | 37The Aur | 2.6490 | 11000. | 101 | 39310 | No |
| 60 | GOM_NL__2PRFIN20090906_080401_000000622082_00178_39310_4050.N1 | 06-SEP-2009 08:04:01 | Tw_i_and_stray | 62.000 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 124 | 39310 | No |
| 61 | GOM_NL__2PRFIN20090906_080552_000000562082_00178_39310_4051.N1 | 06-SEP-2009 08:05:52 | Tw_i_and_stray | 55.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 111 | 39310 | No |
| 62 | GOM_NL__2PRFIN20090906_081553_000000532082_00178_39310_4052.N1 | 06-SEP-2009 08:15:53 | Dark | 52.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 105 | 39310 | No |
| 63 | GOM_NL__2PRFIN20090906_081721_000000482082_00178_39310_4053.N1 | 06-SEP-2009 08:17:21 | Dark | 47.500 | 47 | 2Bet CMa | 1.9760 | 28000. | 95 | 39310 | No |
| 64 | GOM_NL__2PRFIN20090906_082050_000000612082_00178_39310_4054.N1 | 06-SEP-2009 08:20:50 | Dark | 61.000 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 122 | 39310 | No |
| 65 | GOM_NL__2PRFIN20090906_083541_000000572082_00179_39311_4059.N1 | 06-SEP-2009 08:35:41 | Dark | 56.500 | 157 | The1Eri | 2.9060 | 9300.0 | 113 | 39311 | No |
| 66 | GOM_NL__2PRFIN20090906_084247_000000472082_00179_39311_4060.N1 | 06-SEP-2009 08:42:47 | Straylight | 46.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 93 | 39311 | No |
| 67 | GOM_NL__2PRFIN20090906_090259_000000452082_00179_39311_4061.N1 | 06-SEP-2009 09:02:59 | Bright | 44.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 89 | 39311 | No |
| 68 | GOM_NL__2PRFIN20090906_090712_000000402082_00179_39311_4062.N1 | 06-SEP-2009 09:07:12 | Bright | 40.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 80 | 39311 | No |
| 69 | GOM_NL__2PRFIN20090906_091741_000000402082_00179_39311_4063.N1 | 06-SEP-2009 09:17:41 | Bright | 40.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 80 | 39311 | No |
| 70 | GOM_NL__2PRFIN20090906_091942_000000452082_00179_39311_4064.N1 | 06-SEP-2009 09:19:42 | Bright | 44.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 89 | 39311 | No |
| 71 | GOM_NL__2PRFIN20090906_093600_000000532082_00179_39311_4065.N1 | 06-SEP-2009 09:36:00 | Bright | 53.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 106 | 39311 | No |
| 72 | GOM_NL__2PRFIN20090906_093902_000000522082_00179_39311_4066.N1 | 06-SEP-2009 09:39:02 | Bright | 51.500 | 107 | 37The Aur | 2.6490 | 11000. | 103 | 39311 | No |
| 73 | GOM_NL__2PRFIN20090906_094437_000000632082_00179_39311_4067.N1 | 06-SEP-2009 09:44:37 | Tw_i_and_stray | 63.000 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 126 | 39311 | No |
| 74 | GOM_NL__2PRFIN20090906_094629_000000542082_00179_39311_4068.N1 | 06-SEP-2009 09:46:29 | Tw_i_and_stray | 54.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 108 | 39311 | No |
| 75 | GOM_NL__2PRFIN20090906_095630_000000512082_00179_39311_4069.N1 | 06-SEP-2009 09:56:30 | Dark | 51.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 102 | 39311 | No |
| 76 | GOM_NL__2PRFIN20090906_095758_000000482082_00179_39311_4070.N1 | 06-SEP-2009 09:57:58 | Dark | 47.500 | 47 | 2Bet CMa | 1.9760 | 28000. | 95 | 39311 | No |
| 77 | GOM_NL__2PRFIN20090906_100127_000000622082_00179_39311_4071.N1 | 06-SEP-2009 10:01:27 | Dark | 61.500 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 123 | 39311 | No |
| 78 | GOM_NL__2PRFIN20090906_101618_000000572082_00180_39312_4071.N1 | 06-SEP-2009 10:16:18 | Dark | 56.500 | 157 | The1Eri | 2.9060 | 9300.0 | 113 | 39312 | No |
| 79 | GOM_NL__2PRFIN20090906_102324_000000472082_00180_39312_4072.N1 | 06-SEP-2009 10:23:24 | Straylight | 46.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 93 | 39312 | No |
| 80 | GOM_NL__2PRFIN20090906_104334_000000432082_00180_39312_4073.N1 | 06-SEP-2009 10:43:34 | Bright | 43.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 86 | 39312 | No |
| 81 | GOM_NL__2PRFIN20090906_104748_000000412082_00180_39312_4074.N1 | 06-SEP-2009 10:47:48 | Bright | 40.500 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 81 | 39312 | No |
| 82 | GOM_NL__2PRFIN20090906_105816_000000442082_00180_39312_4075.N1 | 06-SEP-2009 10:58:16 | Bright | 43.500 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 87 | 39312 | No |
| 83 | GOM_NL__2PRFIN20090906_110018_000000462082_00180_39312_4076.N1 | 06-SEP-2009 11:00:18 | Bright | 45.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 91 | 39312 | No |
| 84 | GOM_NL__2PRFIN20090906_111636_000000512082_00180_39312_4077.N1 | 06-SEP-2009 11:16:36 | Bright | 51.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 102 | 39312 | No |
| 85 | GOM_NL__2PRFIN20090906_111937_000000522082_00180_39312_4078.N1 | 06-SEP-2009 11:19:37 | Bright | 51.500 | 107 | 37The Aur | 2.6490 | 11000. | 103 | 39312 | No |
| 86 | GOM_NL__2PRFIN20090906_112351_000000542082_00180_39312_4079.N1 | 06-SEP-2009 11:23:51 | Bright | 53.500 | 170 | 27Eps Gem | 3.0000 | 9700.0 | 107 | 39312 | No |
| 87 | GOM_NL__2PRFIN20090906_112705_000000532082_00180_39312_4080.N1 | 06-SEP-2009 11:27:05 | Tw_i_and_stray | 52.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 105 | 39312 | No |
| 88 | GOM_NL__2PRFIN20090906_113707_000000592082_00180_39312_4081.N1 | 06-SEP-2009 11:37:07 | Dark | 59.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 118 | 39312 | No |
| 89 | GOM_NL__2PRFIN20090906_113834_000000492082_00180_39312_4082.N1 | 06-SEP-2009 11:38:34 | Dark | 49.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 98 | 39312 | No |
| 90 | GOM_NL__2PRFIN20090906_114204_000000622082_00180_39312_4083.N1 | 06-SEP-2009 11:42:04 | Dark | 61.500 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 123 | 39312 | No |
| 91 | GOM_NL__2PRFIN20090906_115655_000000572082_00181_39313_4087.N1 | 06-SEP-2009 11:56:55 | Dark | 57.000 | 157 | The1Eri | 2.9060 | 9300.0 | 114 | 39313 | No |
| 92 | GOM_NL__2PRFIN20090906_120400_000000452082_00181_39313_4088.N1 | 06-SEP-2009 12:04:00 | Straylight | 44.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 89 | 39313 | No |
| 93 | GOM_NL__2PRFIN20090906_122410_000000432082_00181_39313_4089.N1 | 06-SEP-2009 12:24:10 | Bright | 43.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 86 | 39313 | No |
| 94 | GOM_NL__2PRFIN20090906_122823_000000422082_00181_39313_4090.N1 | 06-SEP-2009 12:28:23 | Bright | 42.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 84 | 39313 | No |
| 95 | GOM_NL__2PRFIN20090906_123851_000000442082_00181_39313_4091.N1 | 06-SEP-2009 12:38:51 | Bright | 43.500 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 87 | 39313 | No |
| 96 | GOM_NL__2PRFIN20090906_124053_000000462082_00181_39313_4092.N1 | 06-SEP-2009 12:40:53 | Bright | 46.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 92 | 39313 | No |
| 97 | GOM_NL__2PRFIN20090906_125711_000000522082_00181_39313_4093.N1 | 06-SEP-2009 12:57:11 | Bright | 52.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 104 | 39313 | No |
| 98 | GOM_NL__2PRFIN20090906_130013_000000532082_00181_39313_4094.N1 | 06-SEP-2009 13:00:13 | Bright | 52.500 | 107 | 37The Aur | 2.6490 | 11000. | 105 | 39313 | No |
| 99 | GOM_NL__2PRFIN20090906_130427_000000522082_00181_39313_4095.N1 | 06-SEP-2009 13:04:27 | Bright | 52.000 | 170 | 27Eps Gem | 3.0000 | 9700.0 | 104 | 39313 | No |
| 100 | GOM_NL__2PRFIN20090906_130741_000000542082_00181_39313_4096.N1 | 06-SEP-2009 13:07:41 | Tw_i_and_stray | 53.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 107 | 39313 | No |
| 101 | GOM_NL__2PRFIN20090906_131743_000000522082_00181_39313_4097.N1 | 06-SEP-2009 13:17:43 | Dark | 51.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 103 | 39313 | No |

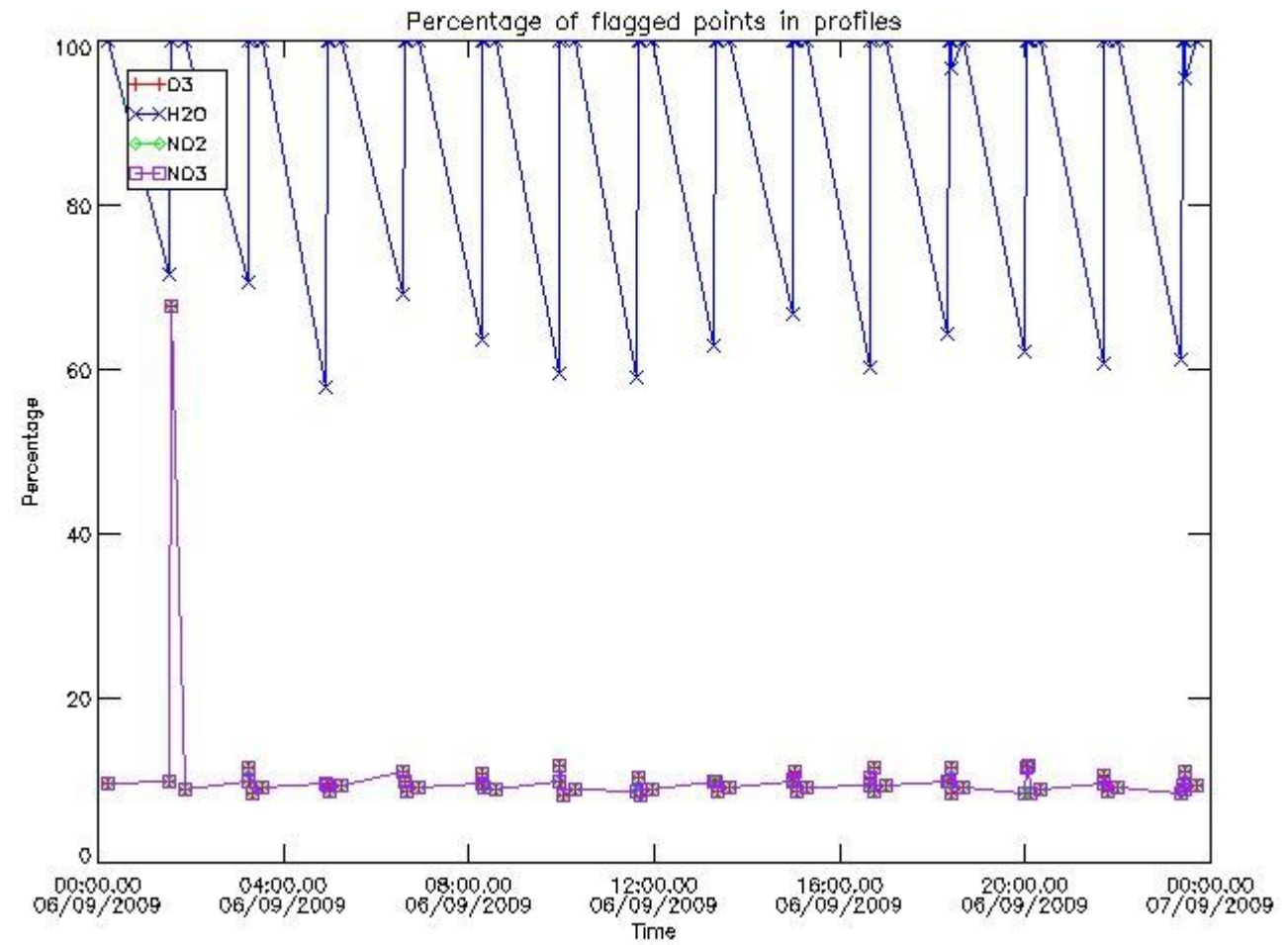
| | | | | | | | | | | | |
|-----|--|----------------------|----------------|--------|-----|-----------|---------|--------|-----|-------|----|
| 102 | GOM_NL__2PRFIN20090906_131911_000000522082_00181_39313_4098.N1 | 06-SEP-2009 13:19:11 | Dark | 52.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 104 | 39313 | No |
| 103 | GOM_NL__2PRFIN20090906_132242_000000592082_00181_39313_4099.N1 | 06-SEP-2009 13:22:42 | Dark | 59.000 | 101 | 11Alp Lep | 2.5820 | 7000.0 | 118 | 39313 | No |
| 104 | GOM_NL__2PRFIN20090906_133732_000000562082_00182_39314_4102.N1 | 06-SEP-2009 13:37:32 | Dark | 56.000 | 157 | The1Eri | 2.9060 | 9300.0 | 112 | 39314 | No |
| 105 | GOM_NL__2PRFIN20090906_134437_000000482082_00182_39314_4103.N1 | 06-SEP-2009 13:44:37 | Straylight | 47.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 95 | 39314 | No |
| 106 | GOM_NL__2PRFIN20090906_140446_000000452082_00182_39314_4104.N1 | 06-SEP-2009 14:04:46 | Bright | 44.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 89 | 39314 | No |
| 107 | GOM_NL__2PRFIN20090906_140859_000000422082_00182_39314_4105.N1 | 06-SEP-2009 14:08:59 | Bright | 41.500 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 83 | 39314 | No |
| 108 | GOM_NL__2PRFIN20090906_141926_000000422082_00182_39314_4106.N1 | 06-SEP-2009 14:19:26 | Bright | 42.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 84 | 39314 | No |
| 109 | GOM_NL__2PRFIN20090906_142128_000000432082_00182_39314_4107.N1 | 06-SEP-2009 14:21:28 | Bright | 43.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 86 | 39314 | No |
| 110 | GOM_NL__2PRFIN20090906_143747_000000492082_00182_39314_4108.N1 | 06-SEP-2009 14:37:47 | Bright | 49.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 98 | 39314 | No |
| 111 | GOM_NL__2PRFIN20090906_144049_000000522082_00182_39314_4109.N1 | 06-SEP-2009 14:40:49 | Bright | 51.500 | 107 | 37The Aur | 2.6490 | 11000. | 103 | 39314 | No |
| 112 | GOM_NL__2PRFIN20090906_144503_000000522082_00182_39314_4110.N1 | 06-SEP-2009 14:45:03 | Bright | 51.500 | 170 | 27Eps Gem | 3.0000 | 9700.0 | 103 | 39314 | No |
| 113 | GOM_NL__2PRFIN20090906_144818_000000532082_00182_39314_4111.N1 | 06-SEP-2009 14:48:18 | Tw_i_and_stray | 52.500 | 44 | 24Gam Gem | 1.9280 | 11000. | 105 | 39314 | No |
| 114 | GOM_NL__2PRFIN20090906_145820_000000522082_00182_39314_4112.N1 | 06-SEP-2009 14:58:20 | Dark | 51.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 103 | 39314 | No |
| 115 | GOM_NL__2PRFIN20090906_145948_000000502082_00182_39314_4113.N1 | 06-SEP-2009 14:59:48 | Dark | 50.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 100 | 39314 | No |
| 116 | GOM_NL__2PRFIN20090906_150253_000000462082_00182_39314_4114.N1 | 06-SEP-2009 15:02:53 | Dark | 45.500 | 177 | 1Zet CMa | 3.0220 | 26000. | 91 | 39314 | No |
| 117 | GOM_NL__2PRFIN20090906_150420_000000582082_00182_39314_4115.N1 | 06-SEP-2009 15:04:20 | Dark | 58.000 | 139 | 9Bet Lep | 2.8330 | 5600.0 | 116 | 39314 | No |
| 118 | GOM_NL__2PRFIN20090906_151809_000000552082_00183_39315_4117.N1 | 06-SEP-2009 15:18:09 | Dark | 55.000 | 157 | The1Eri | 2.9060 | 9300.0 | 110 | 39315 | No |
| 119 | GOM_NL__2PRFIN20090906_152513_000000452082_00183_39315_4118.N1 | 06-SEP-2009 15:25:13 | Straylight | 45.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 90 | 39315 | No |
| 120 | GOM_NL__2PRFIN20090906_154521_000000462082_00183_39315_4119.N1 | 06-SEP-2009 15:45:21 | Bright | 45.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 91 | 39315 | No |
| 121 | GOM_NL__2PRFIN20090906_154934_000000592082_00183_39315_4120.N1 | 06-SEP-2009 15:49:34 | Bright | 59.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 118 | 39315 | No |
| 122 | GOM_NL__2PRFIN20090906_160002_000000442082_00183_39315_4121.N1 | 06-SEP-2009 16:00:02 | Bright | 43.500 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 87 | 39315 | No |
| 123 | GOM_NL__2PRFIN20090906_160203_000000462082_00183_39315_4122.N1 | 06-SEP-2009 16:02:03 | Bright | 45.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 91 | 39315 | No |
| 124 | GOM_NL__2PRFIN20090906_161823_000000502082_00183_39315_4123.N1 | 06-SEP-2009 16:18:23 | Bright | 49.500 | 42 | 34Bet Aur | 1.9000 | 10200. | 99 | 39315 | No |
| 125 | GOM_NL__2PRFIN20090906_162125_000000542082_00183_39315_4124.N1 | 06-SEP-2009 16:21:25 | Bright | 53.500 | 107 | 37The Aur | 2.6490 | 11000. | 107 | 39315 | No |
| 126 | GOM_NL__2PRFIN20090906_162539_000000532082_00183_39315_4125.N1 | 06-SEP-2009 16:25:39 | Bright | 52.500 | 170 | 27Eps Gem | 3.0000 | 9700.0 | 105 | 39315 | No |
| 127 | GOM_NL__2PRFIN20090906_162854_000000552082_00183_39315_4126.N1 | 06-SEP-2009 16:28:54 | Tw_i_and_stray | 55.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 110 | 39315 | No |
| 128 | GOM_NL__2PRFIN20090906_163857_000000552082_00183_39315_4127.N1 | 06-SEP-2009 16:38:57 | Dark | 54.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 109 | 39315 | No |
| 129 | GOM_NL__2PRFIN20090906_164025_000000502082_00183_39315_4128.N1 | 06-SEP-2009 16:40:25 | Dark | 49.500 | 47 | 2Bet CMa | 1.9760 | 28000. | 99 | 39315 | No |
| 130 | GOM_NL__2PRFIN20090906_164330_000000442082_00183_39315_4129.N1 | 06-SEP-2009 16:43:30 | Dark | 44.000 | 177 | 1Zet CMa | 3.0220 | 26000. | 88 | 39315 | No |
| 131 | GOM_NL__2PRFIN20090906_164458_000000592082_00183_39315_4130.N1 | 06-SEP-2009 16:44:58 | Dark | 59.000 | 139 | 9Bet Lep | 2.8330 | 5600.0 | 118 | 39315 | No |
| 132 | GOM_NL__2PRFIN20090906_165846_000000552082_00184_39316_4153.N1 | 06-SEP-2009 16:58:46 | Dark | 54.500 | 157 | The1Eri | 2.9060 | 9300.0 | 109 | 39316 | No |
| 133 | GOM_NL__2PRFIN20090906_170550_000000442082_00184_39316_4154.N1 | 06-SEP-2009 17:05:50 | Straylight | 43.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 87 | 39316 | No |
| 134 | GOM_NL__2PRFIN20090906_172557_000000452082_00184_39316_4155.N1 | 06-SEP-2009 17:25:57 | Bright | 44.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 89 | 39316 | No |
| 135 | GOM_NL__2PRFIN20090906_173010_000000412082_00184_39316_4156.N1 | 06-SEP-2009 17:30:10 | Bright | 40.500 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 81 | 39316 | No |
| 136 | GOM_NL__2PRFIN20090906_174037_000000422082_00184_39316_4157.N1 | 06-SEP-2009 17:40:37 | Bright | 42.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 84 | 39316 | No |
| 137 | GOM_NL__2PRFIN20090906_174239_000000462082_00184_39316_4158.N1 | 06-SEP-2009 17:42:39 | Bright | 46.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 92 | 39316 | No |
| 138 | GOM_NL__2PRFIN20090906_175859_000000522082_00184_39316_4159.N1 | 06-SEP-2009 17:58:59 | Bright | 52.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 104 | 39316 | No |
| 139 | GOM_NL__2PRFIN20090906_180201_000000522082_00184_39316_4160.N1 | 06-SEP-2009 18:02:01 | Bright | 51.500 | 107 | 37The Aur | 2.6490 | 11000. | 103 | 39316 | No |
| 140 | GOM_NL__2PRFIN20090906_180616_000000542082_00184_39316_4161.N1 | 06-SEP-2009 18:06:16 | Bright | 53.500 | 170 | 27Eps Gem | 3.0000 | 9700.0 | 107 | 39316 | No |
| 141 | GOM_NL__2PRFIN20090906_180931_000000562082_00184_39316_4162.N1 | 06-SEP-2009 18:09:31 | Tw_i_and_stray | 56.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 112 | 39316 | No |
| 142 | GOM_NL__2PRFIN20090906_181933_000000512082_00184_39316_4163.N1 | 06-SEP-2009 18:19:33 | Dark | 51.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 102 | 39316 | No |
| 143 | GOM_NL__2PRFIN20090906_182102_000000512082_00184_39316_4164.N1 | 06-SEP-2009 18:21:02 | Dark | 51.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 102 | 39316 | No |
| 144 | GOM_NL__2PRFIN20090906_182407_000000452082_00184_39316_4165.N1 | 06-SEP-2009 18:24:07 | Dark | 44.500 | 177 | 1Zet CMa | 3.0220 | 26000. | 89 | 39316 | No |
| 145 | GOM_NL__2PRFIN20090906_182535_000000612082_00184_39316_4166.N1 | 06-SEP-2009 18:25:35 | Dark | 60.500 | 139 | 9Bet Lep | 2.8330 | 5600.0 | 121 | 39316 | No |
| 146 | GOM_NL__2PRFIN20090906_183923_000000552082_00185_39317_4168.N1 | 06-SEP-2009 18:39:23 | Dark | 55.000 | 157 | The1Eri | 2.9060 | 9300.0 | 110 | 39317 | No |
| 147 | GOM_NL__2PRFIN20090906_184626_000000472082_00185_39317_4169.N1 | 06-SEP-2009 18:46:26 | Straylight | 47.000 | 84 | Alp Phe | 2.3970 | 4500.0 | 94 | 39317 | No |
| 148 | GOM_NL__2PRFIN20090906_190632_000000432082_00185_39317_4170.N1 | 06-SEP-2009 19:06:32 | Bright | 43.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 86 | 39317 | No |
| 149 | GOM_NL__2PRFIN20090906_191046_000000422082_00185_39317_4171.N1 | 06-SEP-2009 19:10:46 | Bright | 41.500 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 83 | 39317 | No |
| 150 | GOM_NL__2PRFIN20090906_192113_000000432082_00185_39317_4172.N1 | 06-SEP-2009 19:21:13 | Bright | 43.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 86 | 39317 | No |
| 151 | GOM_NL__2PRFIN20090906_192314_000000452082_00185_39317_4173.N1 | 06-SEP-2009 19:23:14 | Bright | 45.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 90 | 39317 | No |
| 152 | GOM_NL__2PRFIN20090906_193934_000000522082_00185_39317_4174.N1 | 06-SEP-2009 19:39:34 | Bright | 51.500 | 42 | 34Bet Aur | 1.9000 | 10200. | 103 | 39317 | No |
| 153 | GOM_NL__2PRFIN20090906_194237_000000532082_00185_39317_4175.N1 | 06-SEP-2009 19:42:37 | Bright | 53.000 | 107 | 37The Aur | 2.6490 | 11000. | 106 | 39317 | No |
| 154 | GOM_NL__2PRFIN20090906_194652_000000552082_00185_39317_4176.N1 | 06-SEP-2009 19:46:52 | Bright | 54.500 | 170 | 27Eps Gem | 3.0000 | 9700.0 | 109 | 39317 | No |
| 155 | GOM_NL__2PRFIN20090906_195007_000000562082_00185_39317_4177.N1 | 06-SEP-2009 19:50:07 | Tw_i_and_stray | 56.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 112 | 39317 | No |
| 156 | GOM_NL__2PRFIN20090906_200010_000000602082_00185_39317_4178.N1 | 06-SEP-2009 20:00:10 | Dark | 60.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 120 | 39317 | No |
| 157 | GOM_NL__2PRFIN20090906_200139_000000482082_00185_39317_4179.N1 | 06-SEP-2009 20:01:39 | Dark | 48.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 96 | 39317 | No |
| 158 | GOM_NL__2PRFIN20090906_200444_000000432082_00185_39317_4180.N1 | 06-SEP-2009 20:04:44 | Dark | 43.000 | 177 | 1Zet CMa | 3.0220 | 26000. | 86 | 39317 | No |
| 159 | GOM_NL__2PRFIN20090906_200613_000000612082_00185_39317_4181.N1 | 06-SEP-2009 20:06:13 | Dark | 60.500 | 139 | 9Bet Lep | 2.8330 | 5600.0 | 121 | 39317 | No |
| 160 | GOM_NL__2PRFIN20090906_202001_000000562082_00186_39318_4184.N1 | 06-SEP-2009 20:20:01 | Dark | 56.000 | 157 | The1Eri | 2.9060 | 9300.0 | 112 | 39318 | No |

| | | | | | | | | | | | |
|-----|--|----------------------|----------------|--------|-----|-----------|---------|--------|-----|-------|----|
| 161 | GOM_NL__2PRFIN20090906_202703_000000482082_00186_39318_4185.N1 | 06-SEP-2009 20:27:03 | Straylight | 47.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 95 | 39318 | No |
| 162 | GOM_NL__2PRFIN20090906_204708_000000452082_00186_39318_4186.N1 | 06-SEP-2009 20:47:08 | Bright | 44.500 | 90 | 54Alp Peg | 2.4870 | 11000. | 89 | 39318 | No |
| 163 | GOM_NL__2PRFIN20090906_205121_000000402082_00186_39318_4187.N1 | 06-SEP-2009 20:51:21 | Bright | 39.500 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 79 | 39318 | No |
| 164 | GOM_NL__2PRFIN20090906_210148_000000412082_00186_39318_4188.N1 | 06-SEP-2009 21:01:48 | Bright | 41.000 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 82 | 39318 | No |
| 165 | GOM_NL__2PRFIN20090906_210349_000000452082_00186_39318_4189.N1 | 06-SEP-2009 21:03:49 | Bright | 44.500 | 76 | 27Gam Cas | 2.3000 | 30000. | 89 | 39318 | No |
| 166 | GOM_NL__2PRFIN20090906_212010_000000532082_00186_39318_4190.N1 | 06-SEP-2009 21:20:10 | Bright | 52.500 | 42 | 34Bet Aur | 1.9000 | 10200. | 105 | 39318 | No |
| 167 | GOM_NL__2PRFIN20090906_212313_000000522082_00186_39318_4191.N1 | 06-SEP-2009 21:23:13 | Bright | 52.000 | 107 | 37The Aur | 2.6490 | 11000. | 104 | 39318 | No |
| 168 | GOM_NL__2PRFIN20090906_212852_000000672082_00186_39318_4192.N1 | 06-SEP-2009 21:28:52 | Tw_i_and_stray | 67.000 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 134 | 39318 | No |
| 169 | GOM_NL__2PRFIN20090906_213044_000000542082_00186_39318_4193.N1 | 06-SEP-2009 21:30:44 | Tw_i_and_stray | 54.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 108 | 39318 | No |
| 170 | GOM_NL__2PRFIN20090906_214047_000000532082_00186_39318_4194.N1 | 06-SEP-2009 21:40:47 | Dark | 52.500 | 1 | 9Alp CMa | -1.4400 | 11000. | 105 | 39318 | No |
| 171 | GOM_NL__2PRFIN20090906_214215_000000482082_00186_39318_4195.N1 | 06-SEP-2009 21:42:15 | Dark | 48.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 96 | 39318 | No |
| 172 | GOM_NL__2PRFIN20090906_214650_000000582082_00186_39318_4196.N1 | 06-SEP-2009 21:46:50 | Dark | 58.000 | 139 | 9Bet Lep | 2.8330 | 5600.0 | 116 | 39318 | No |
| 173 | GOM_NL__2PRFIN20090906_220038_000000562082_00187_39319_4204.N1 | 06-SEP-2009 22:00:38 | Dark | 55.500 | 157 | The1Eri | 2.9060 | 9300.0 | 111 | 39319 | No |
| 174 | GOM_NL__2PRFIN20090906_220739_000000492082_00187_39319_4205.N1 | 06-SEP-2009 22:07:39 | Straylight | 48.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 97 | 39319 | No |
| 175 | GOM_NL__2PRFIN20090906_222744_000000642082_00187_39319_4206.N1 | 06-SEP-2009 22:27:44 | Bright | 64.000 | 90 | 54Alp Peg | 2.4870 | 11000. | 128 | 39319 | No |
| 176 | GOM_NL__2PRFIN20090906_223157_000000402082_00187_39319_4207.N1 | 06-SEP-2009 22:31:57 | Bright | 40.000 | 164 | 44Eta Peg | 2.9480 | 5400.0 | 80 | 39319 | No |
| 177 | GOM_NL__2PRFIN20090906_224223_000000412082_00187_39319_4208.N1 | 06-SEP-2009 22:42:23 | Bright | 40.500 | 74 | 11Bet Cas | 2.2680 | 6600.0 | 81 | 39319 | No |
| 178 | GOM_NL__2PRFIN20090906_224424_000000412082_00187_39319_4209.N1 | 06-SEP-2009 22:44:24 | Bright | 41.000 | 76 | 27Gam Cas | 2.3000 | 30000. | 82 | 39319 | No |
| 179 | GOM_NL__2PRFIN20090906_230046_000000702082_00187_39319_4210.N1 | 06-SEP-2009 23:00:46 | Bright | 70.000 | 42 | 34Bet Aur | 1.9000 | 10200. | 140 | 39319 | No |
| 180 | GOM_NL__2PRFIN20090906_230349_000000752082_00187_39319_4211.N1 | 06-SEP-2009 23:03:49 | Bright | 75.000 | 107 | 37The Aur | 2.6490 | 11000. | 150 | 39319 | No |
| 181 | GOM_NL__2PRFIN20090906_230928_000000672082_00187_39319_4212.N1 | 06-SEP-2009 23:09:28 | Tw_i_and_stray | 66.500 | 151 | 13Mu Gem | 2.8900 | 3000.0 | 133 | 39319 | No |
| 182 | GOM_NL__2PRFIN20090906_231120_000000552082_00187_39319_4213.N1 | 06-SEP-2009 23:11:20 | Tw_i_and_stray | 55.000 | 44 | 24Gam Gem | 1.9280 | 11000. | 110 | 39319 | No |
| 183 | GOM_NL__2PRFIN20090906_232123_000000612082_00187_39319_4214.N1 | 06-SEP-2009 23:21:23 | Dark | 61.000 | 1 | 9Alp CMa | -1.4400 | 11000. | 122 | 39319 | No |
| 184 | GOM_NL__2PRFIN20090906_232252_000000542082_00187_39319_4215.N1 | 06-SEP-2009 23:22:52 | Dark | 54.000 | 47 | 2Bet CMa | 1.9760 | 28000. | 108 | 39319 | No |
| 185 | GOM_NL__2PRFIN20090906_232557_000000462082_00187_39319_4216.N1 | 06-SEP-2009 23:25:57 | Dark | 46.000 | 177 | 1Zet CMa | 3.0220 | 26000. | 92 | 39319 | No |
| 186 | GOM_NL__2PRFIN20090906_232727_000000572082_00187_39319_4217.N1 | 06-SEP-2009 23:27:27 | Dark | 56.500 | 139 | 9Bet Lep | 2.8330 | 5600.0 | 113 | 39319 | No |
| 187 | GOM_NL__2PRFIN20090906_234114_000000552082_00188_39320_4220.N1 | 06-SEP-2009 23:41:14 | Dark | 54.500 | 157 | The1Eri | 2.9060 | 9300.0 | 109 | 39320 | No |
| 188 | GOM_NL__2PRFIN20090906_234815_000000492082_00188_39320_4221.N1 | 06-SEP-2009 23:48:15 | Straylight | 48.500 | 84 | Alp Phe | 2.3970 | 4500.0 | 97 | 39320 | No |

3. Quality information per product

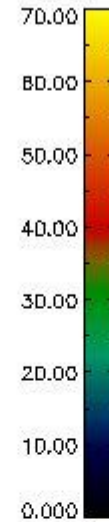
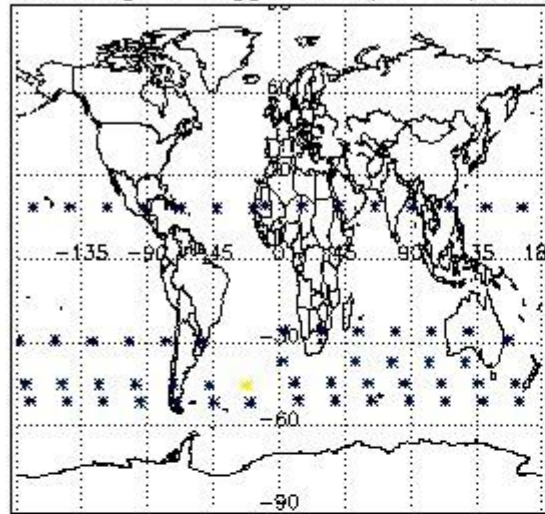
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

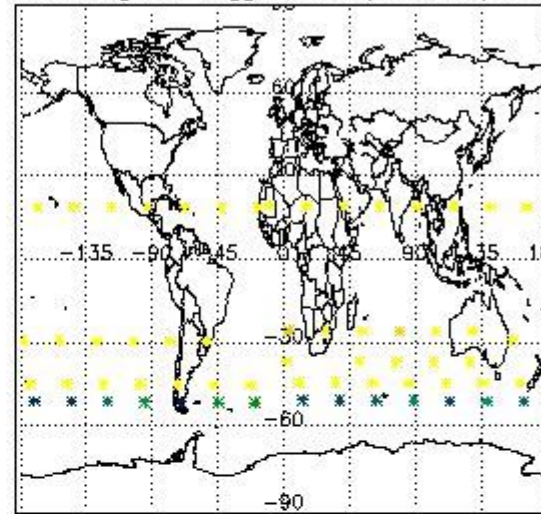


3.2 Plot quality information per product (world map)

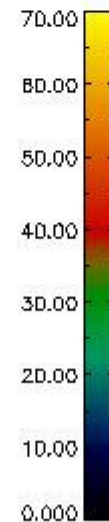
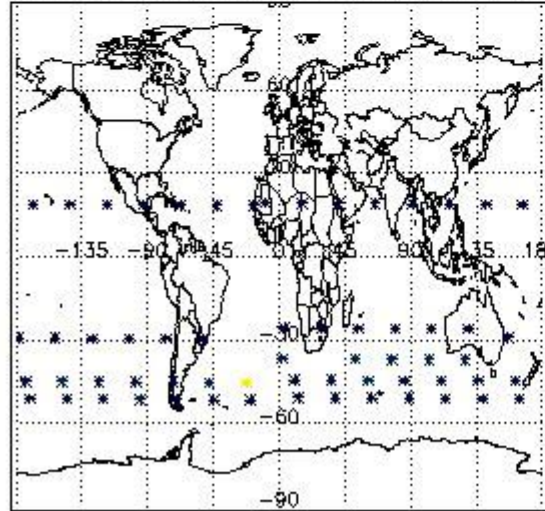
Percentage of flagged data per O3 profile



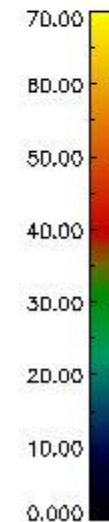
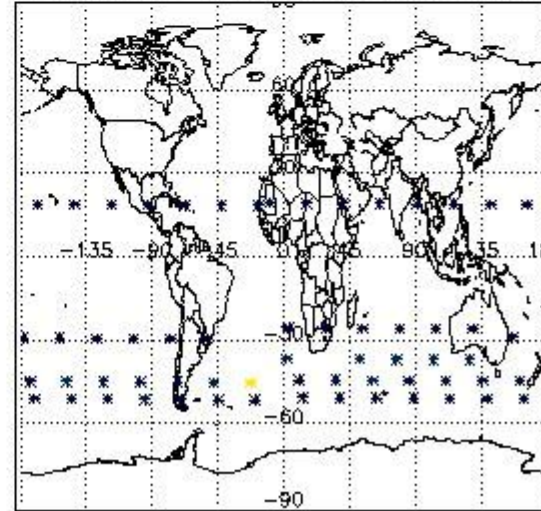
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

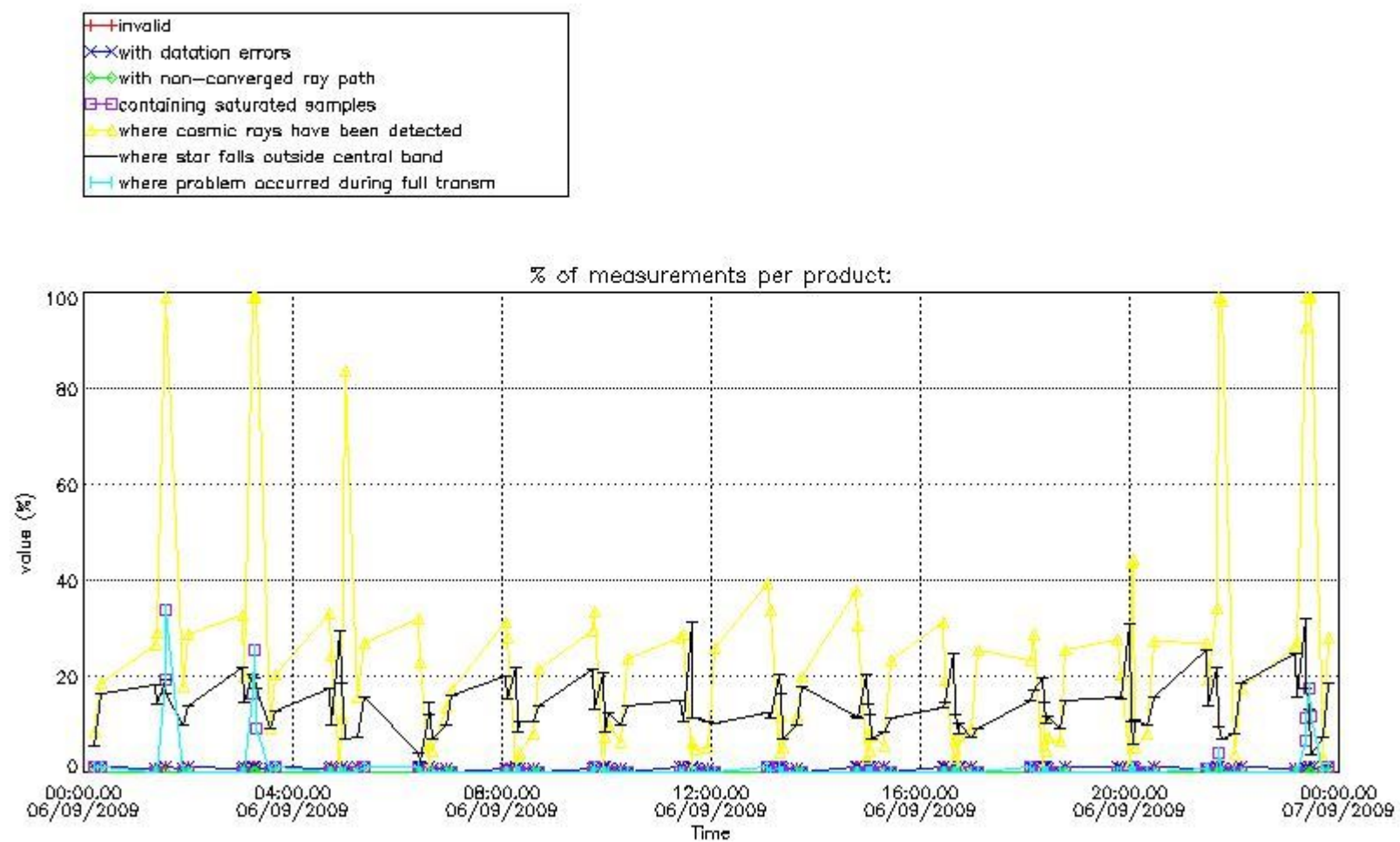


4. Level 1 quality information per product

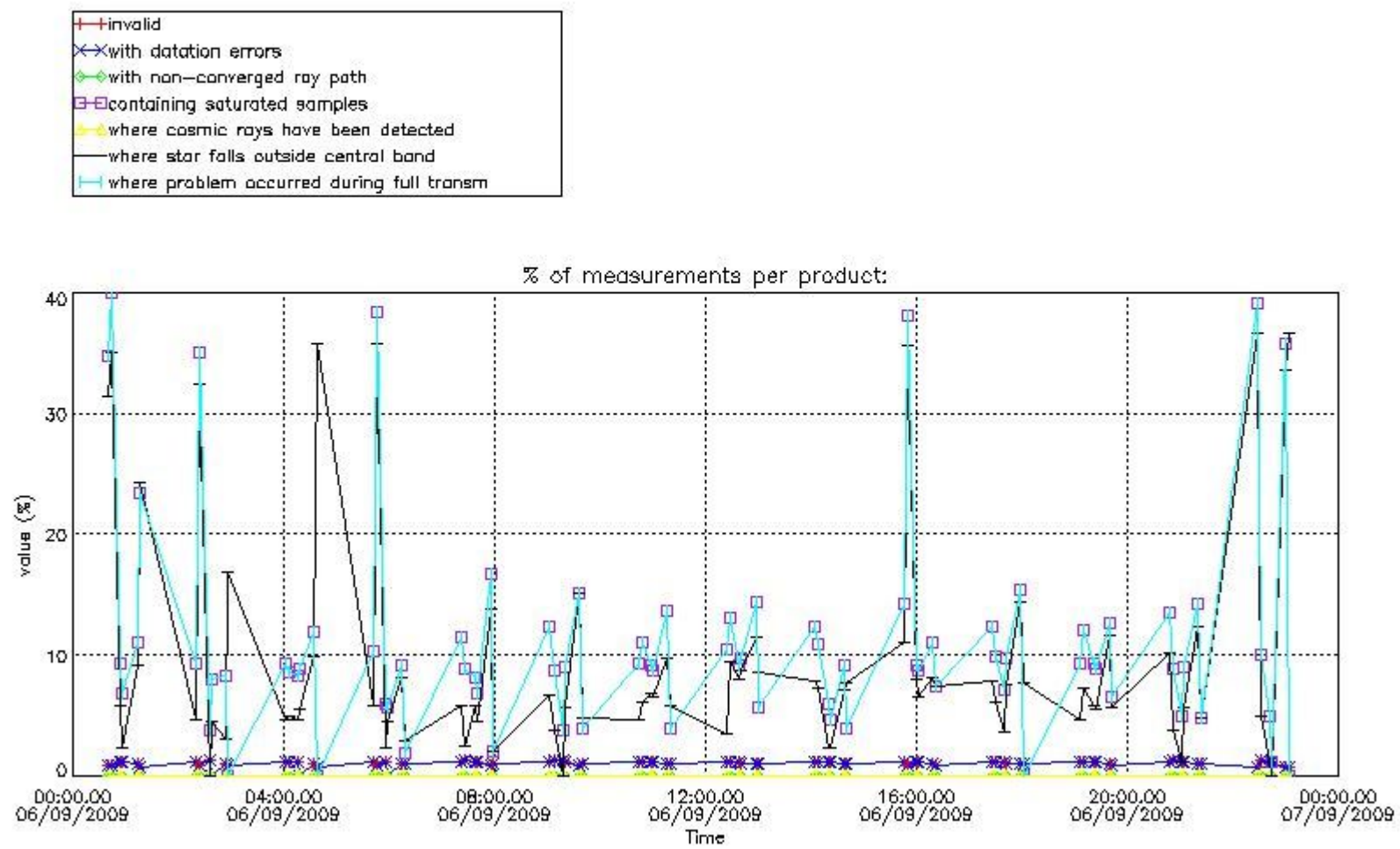
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes



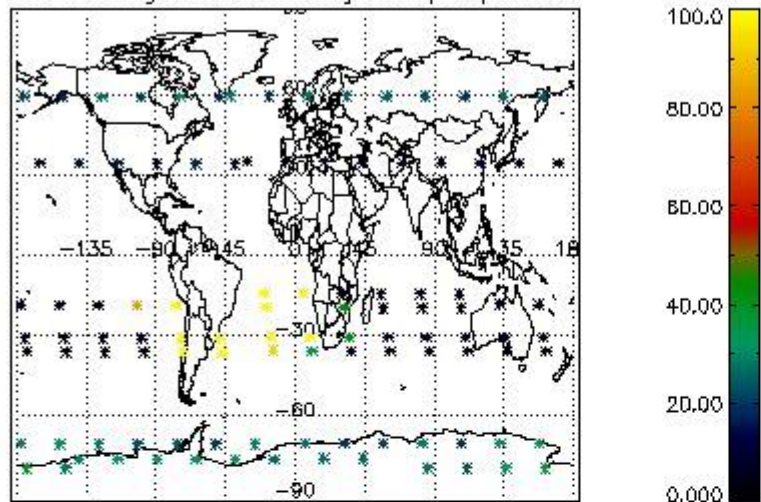
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



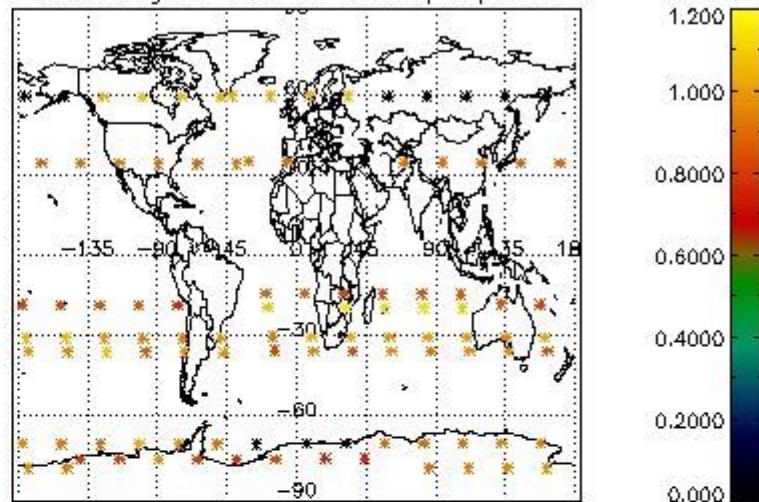
4.2 Plot quality information per product coming from level 1b processing (world map)

4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

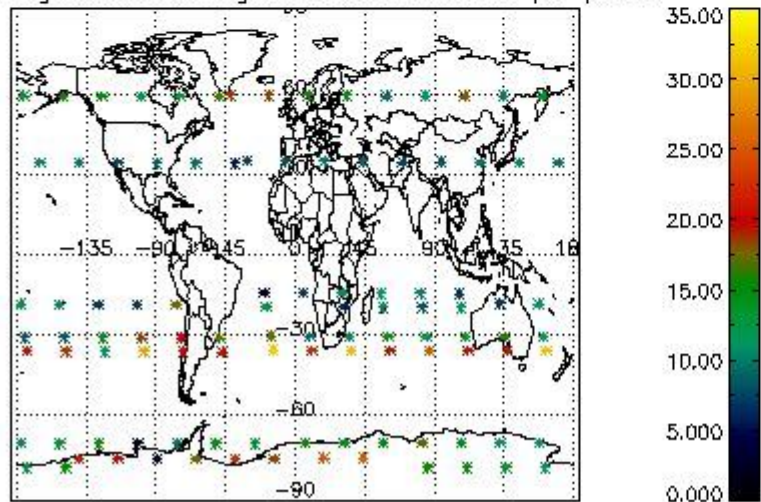
Percentage of cosmic ray hits per profile



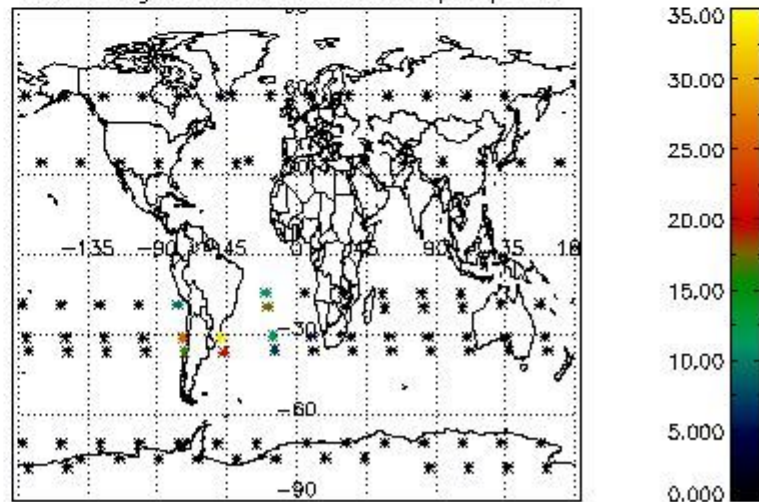
Percentage of datation errors per profile



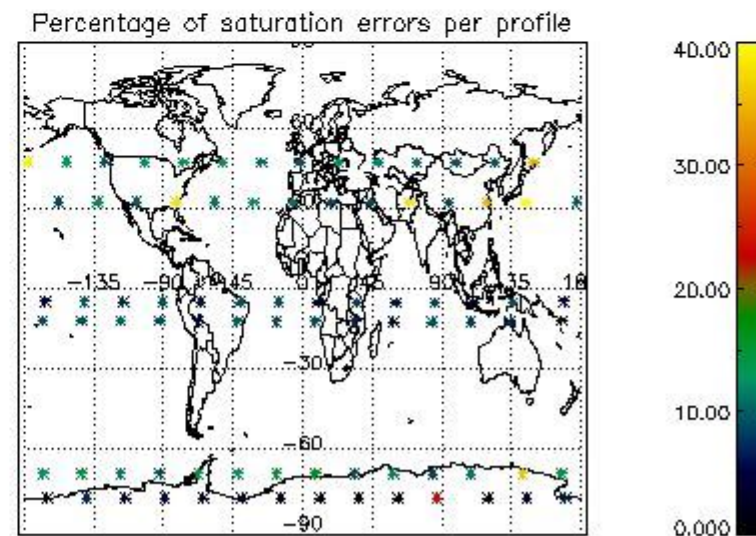
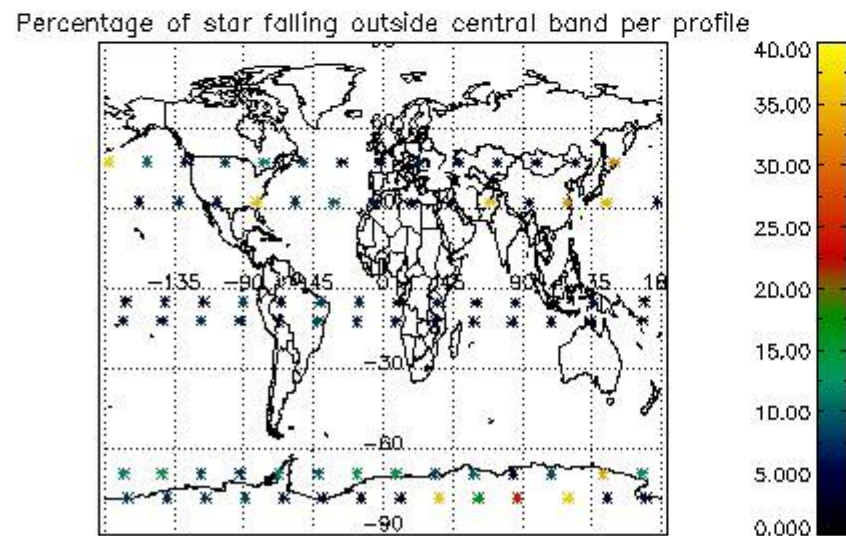
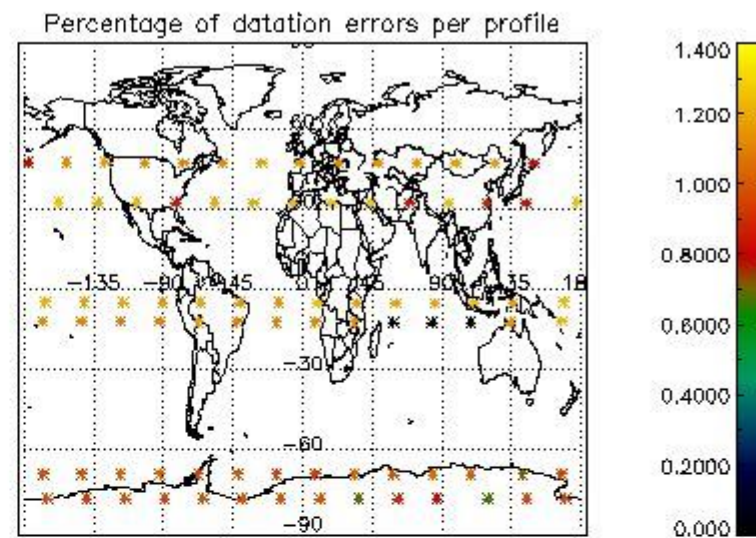
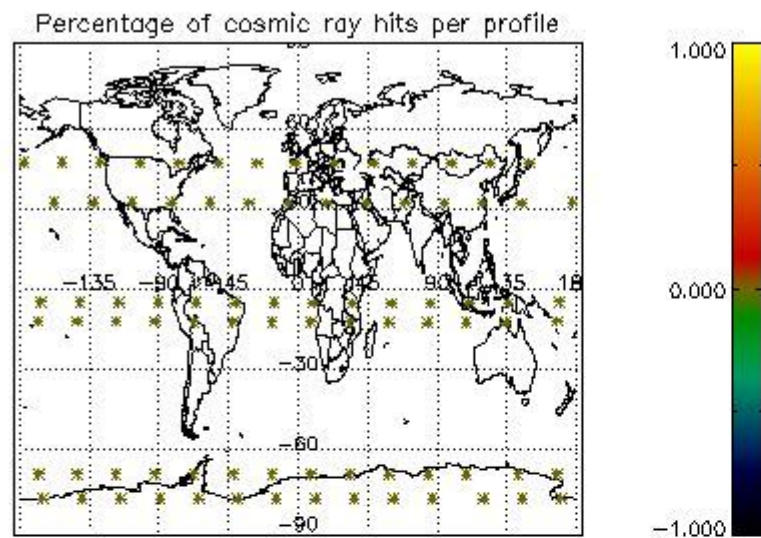
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

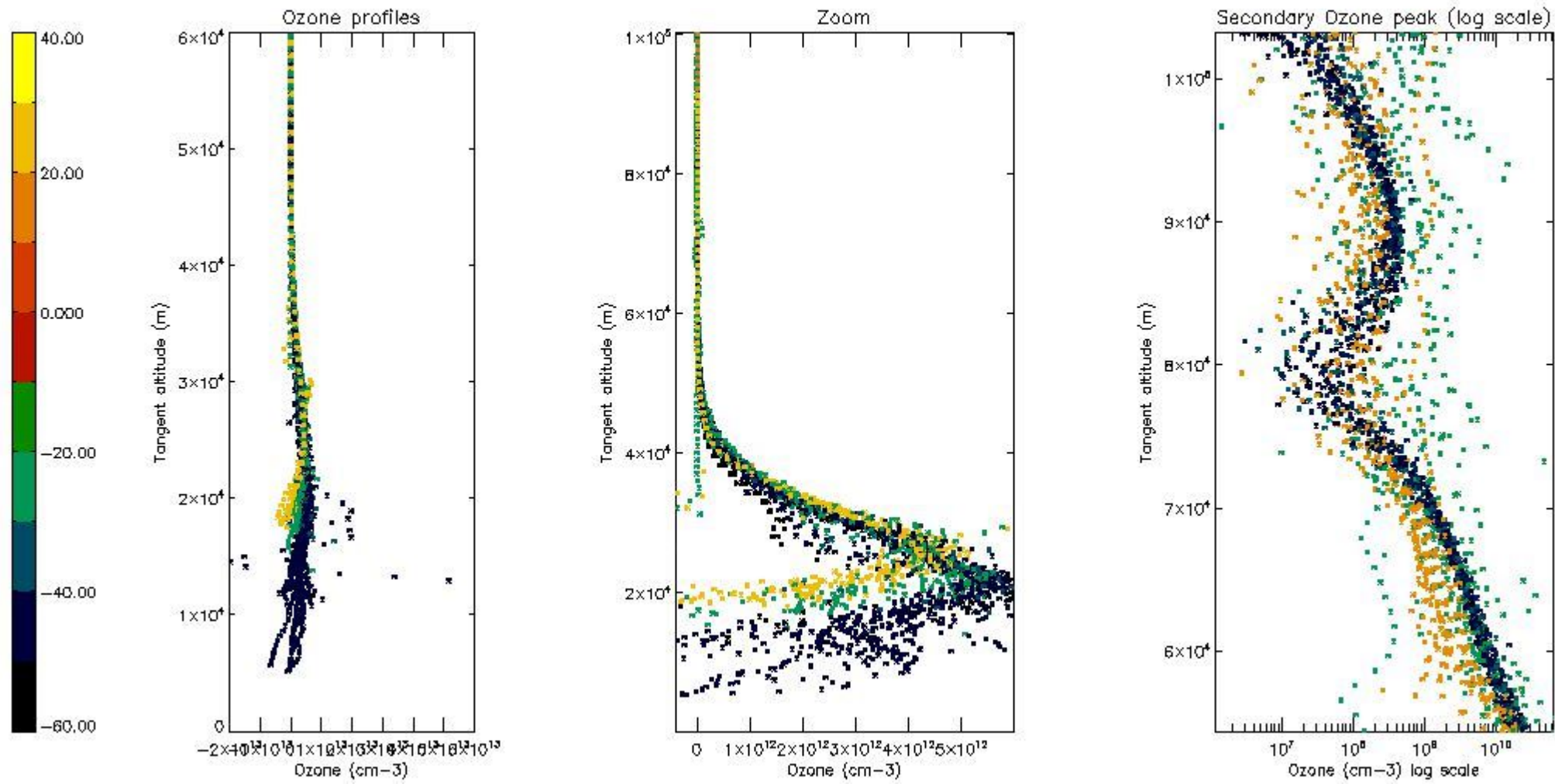
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

| Criteria | % of total production |
|----------|-----------------------|
| All STD | 35 |
| STD < 20 | 19 |

| | |
|----------|----|
| STD < 10 | 15 |
| STD < 5 | 9 |

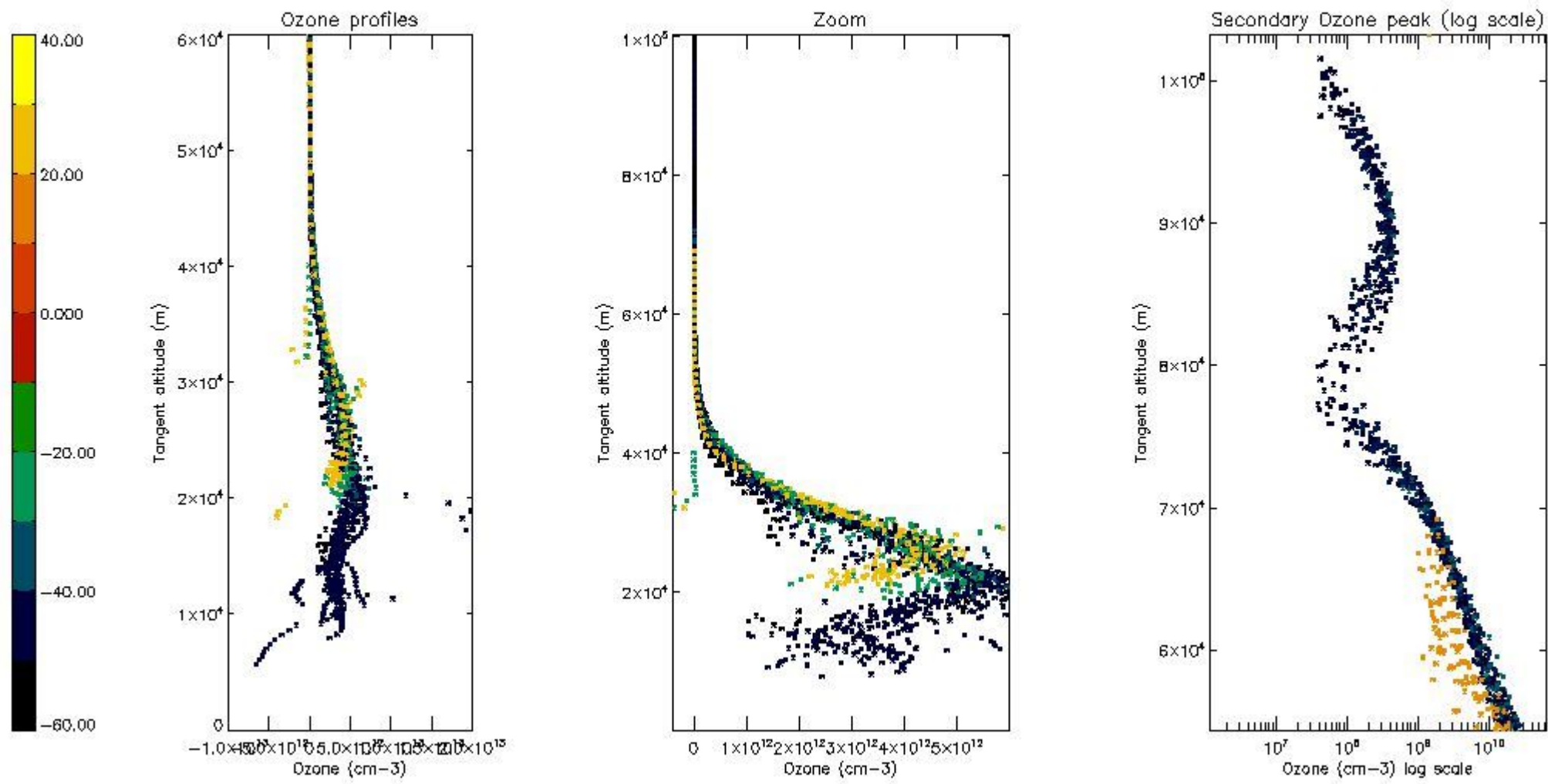
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



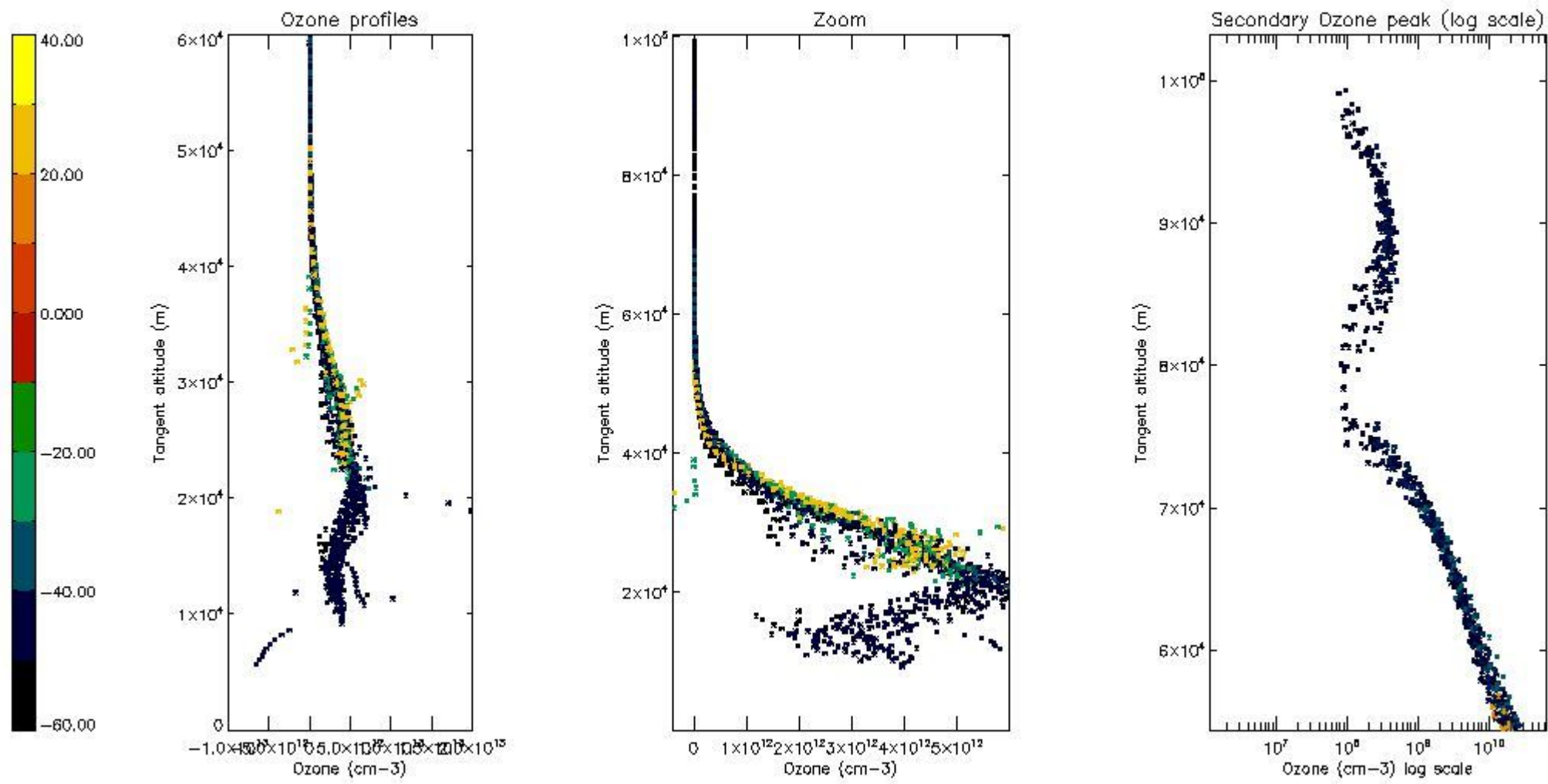
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



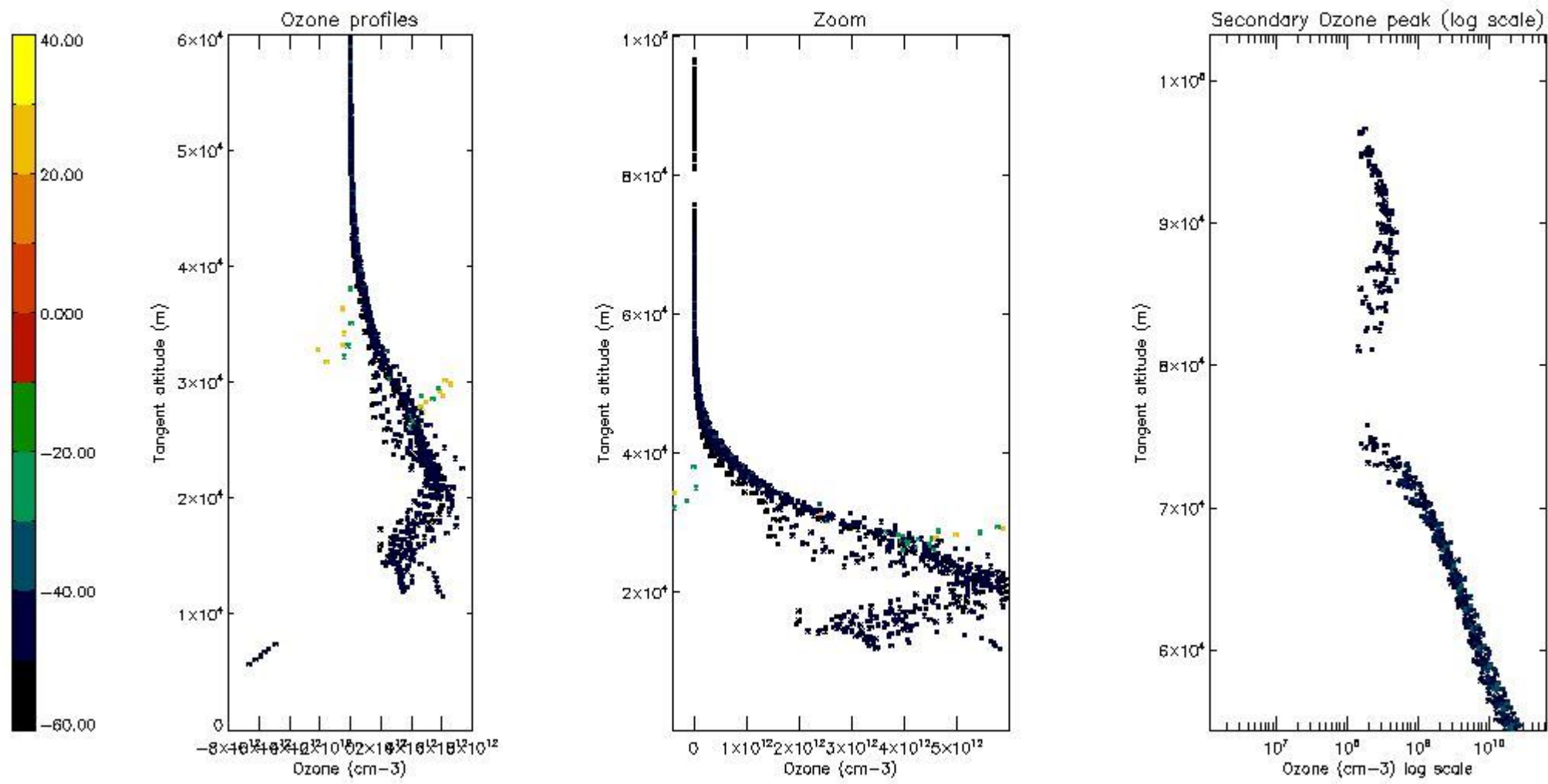
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



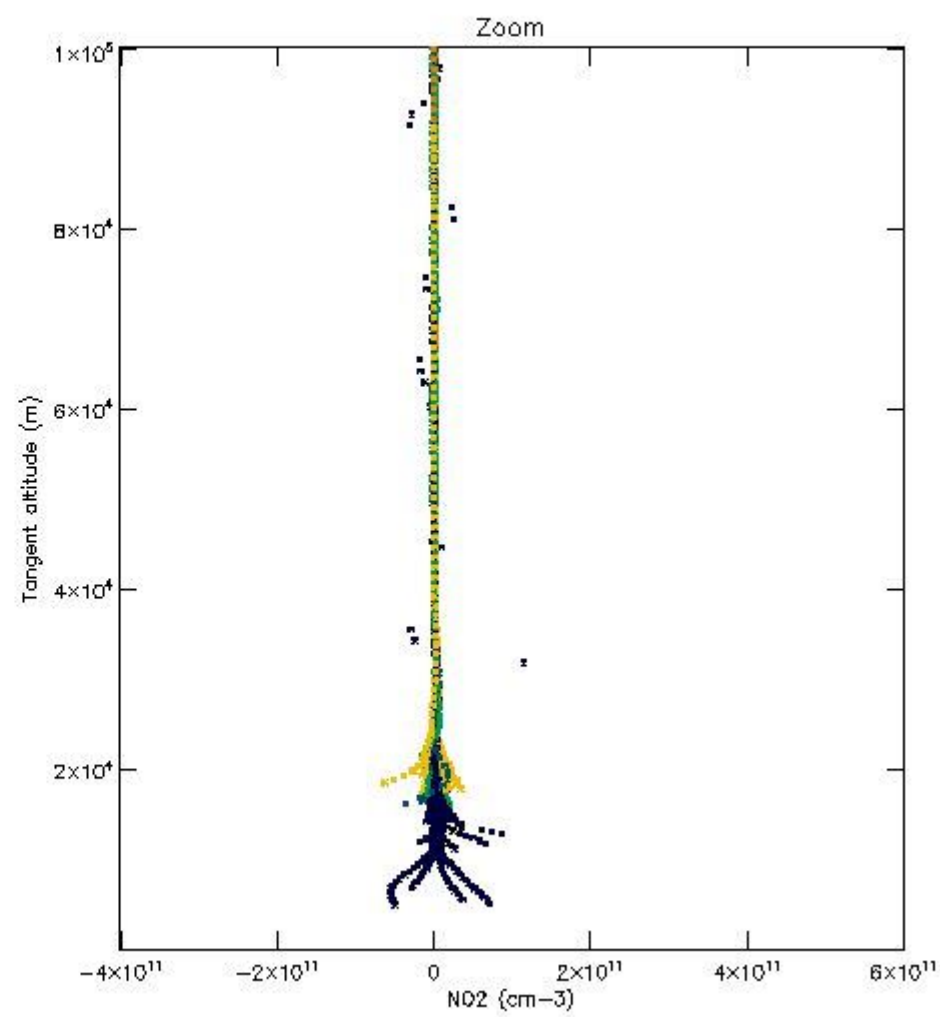
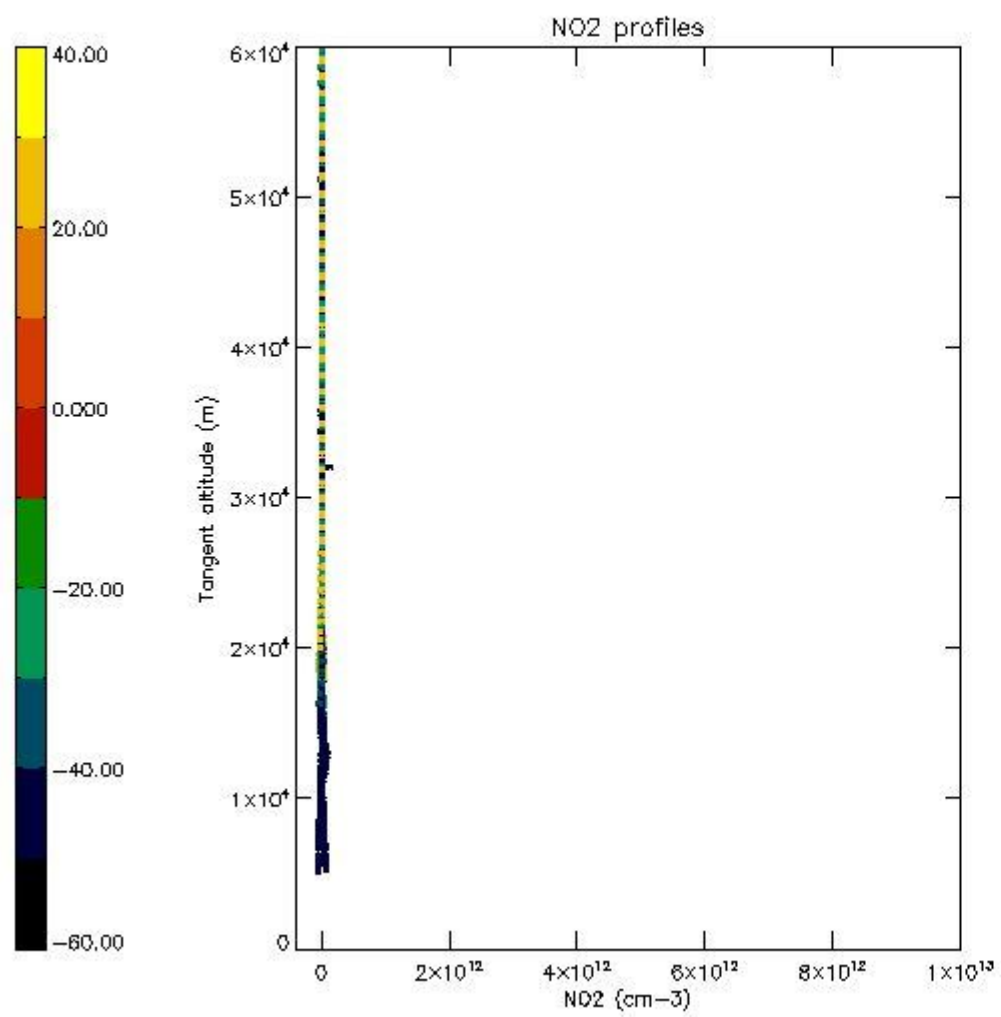
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



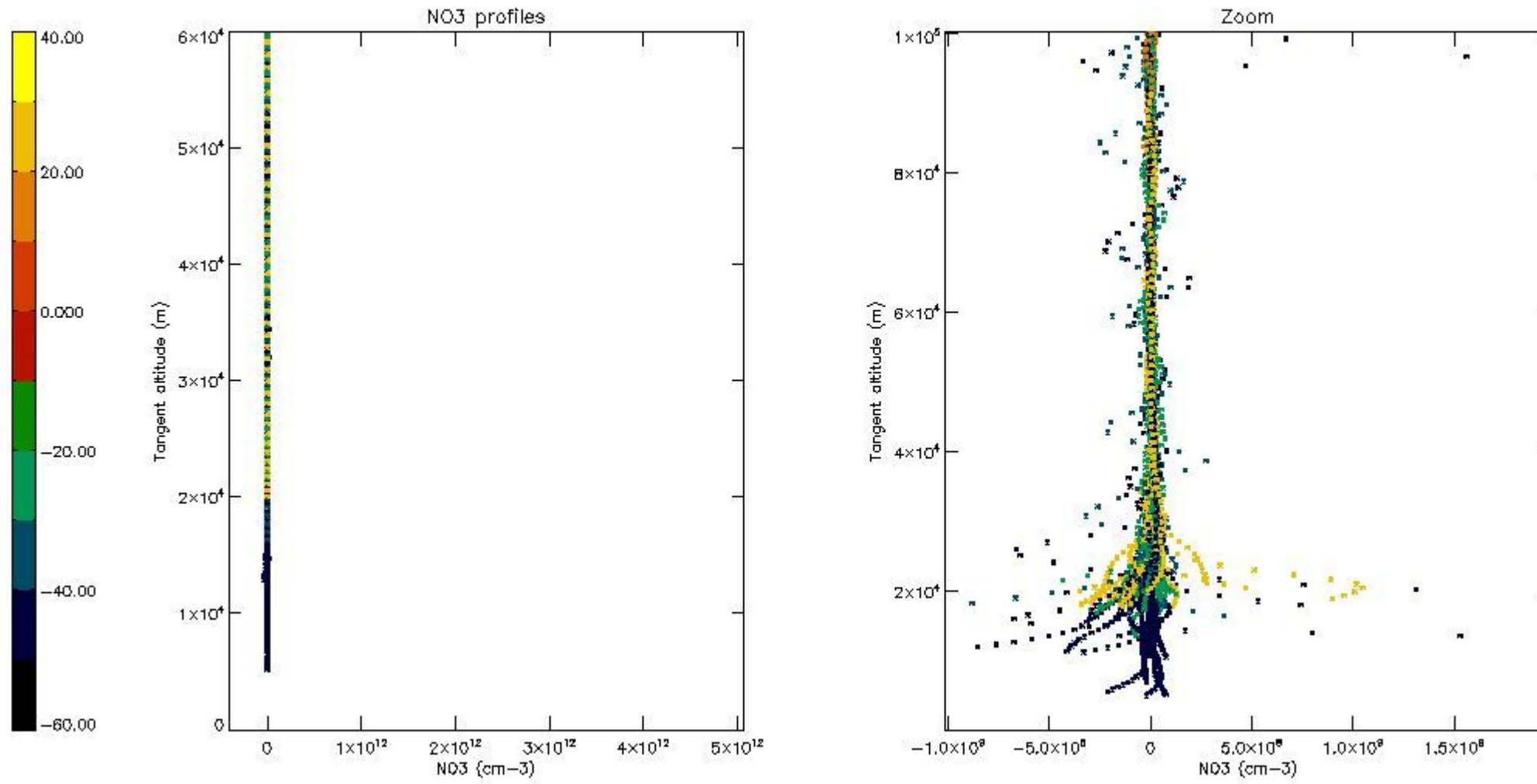
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



5.7 Plot NO3 profiles for all STD (dark without errors)

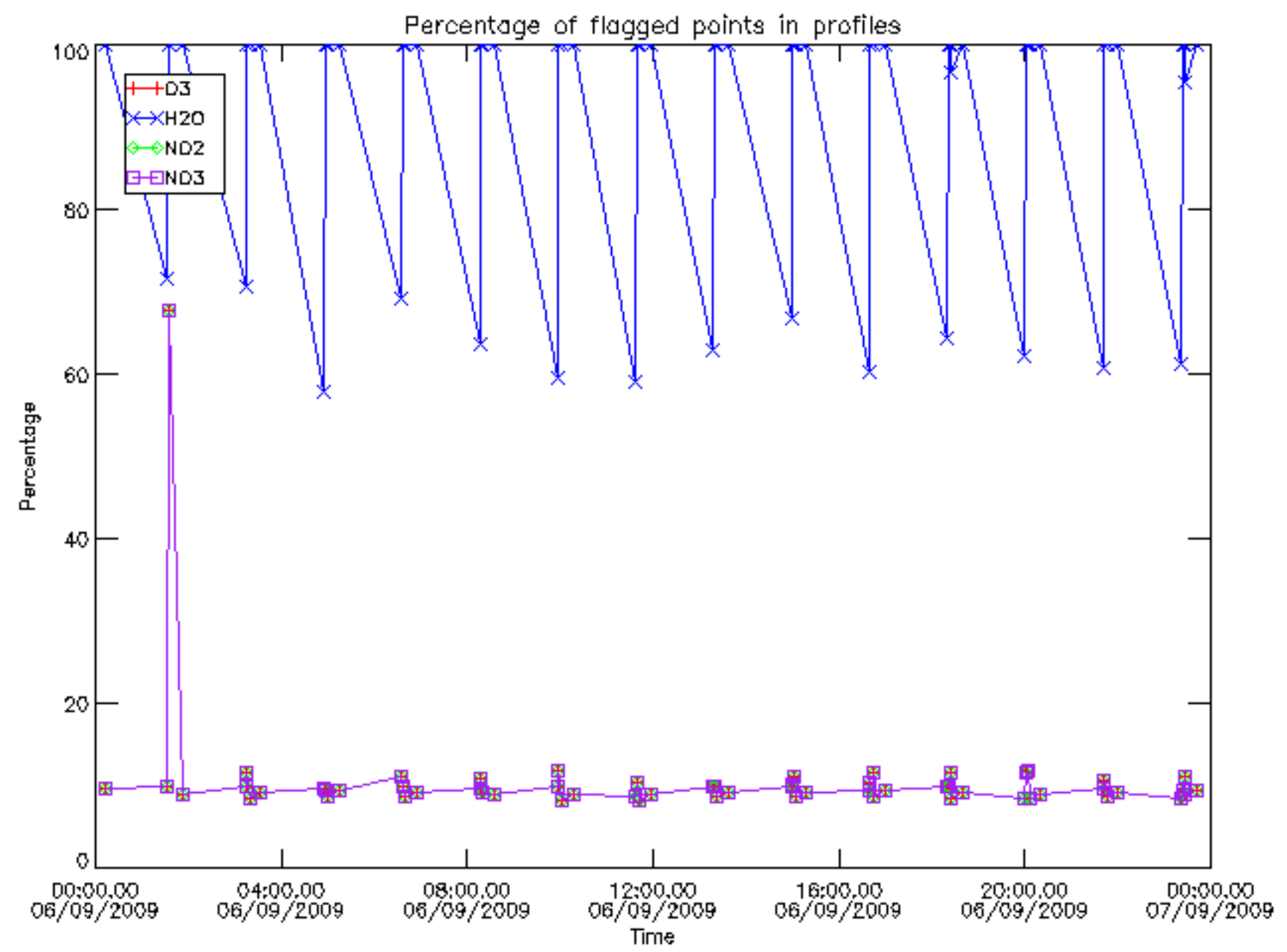
The colorbar represents the latitude.



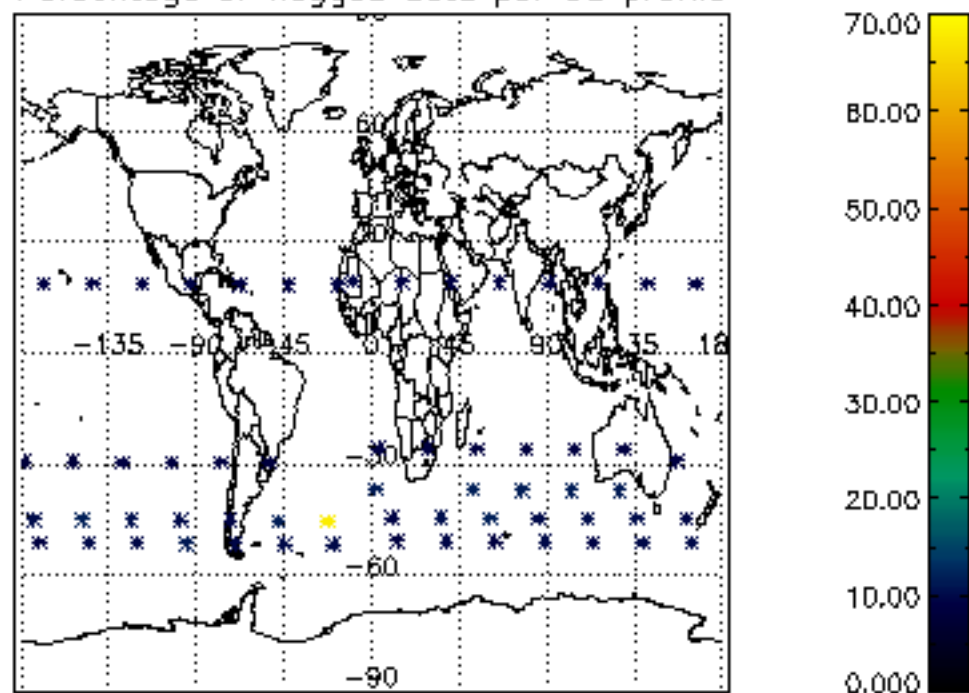
6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

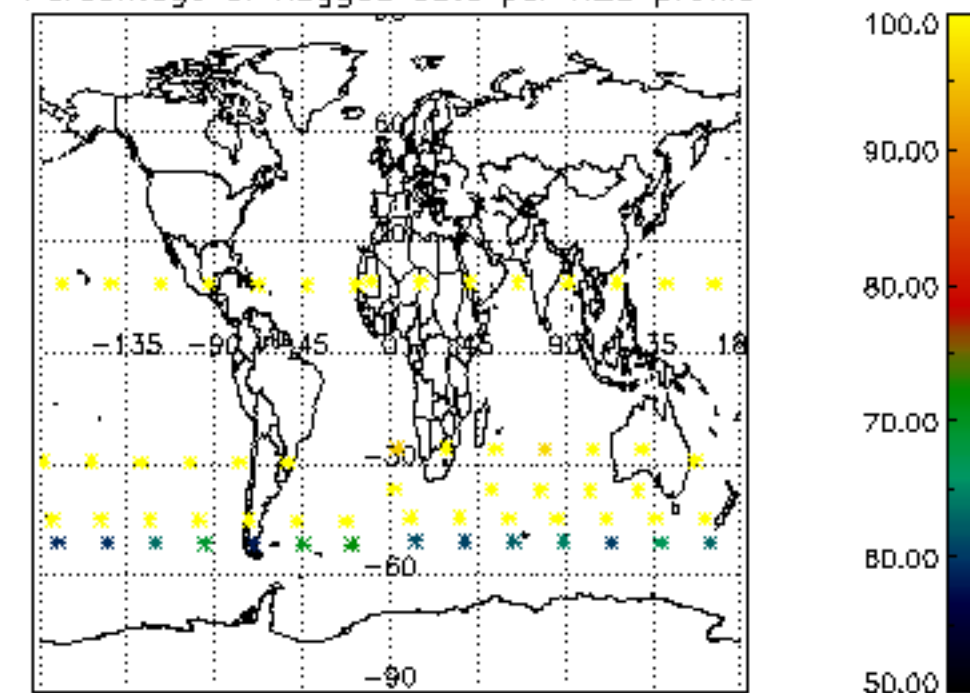
| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|---|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000 | 1 | 06-SEP-2009 00:12:35 |
| LEVEL-2_PROC_CONFIG | GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000 | 1 | 06-SEP-2009 00:12:35 |
| CROSS_SECTIONS_FILE | GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000 | 1 | 06-SEP-2009 00:12:35 |



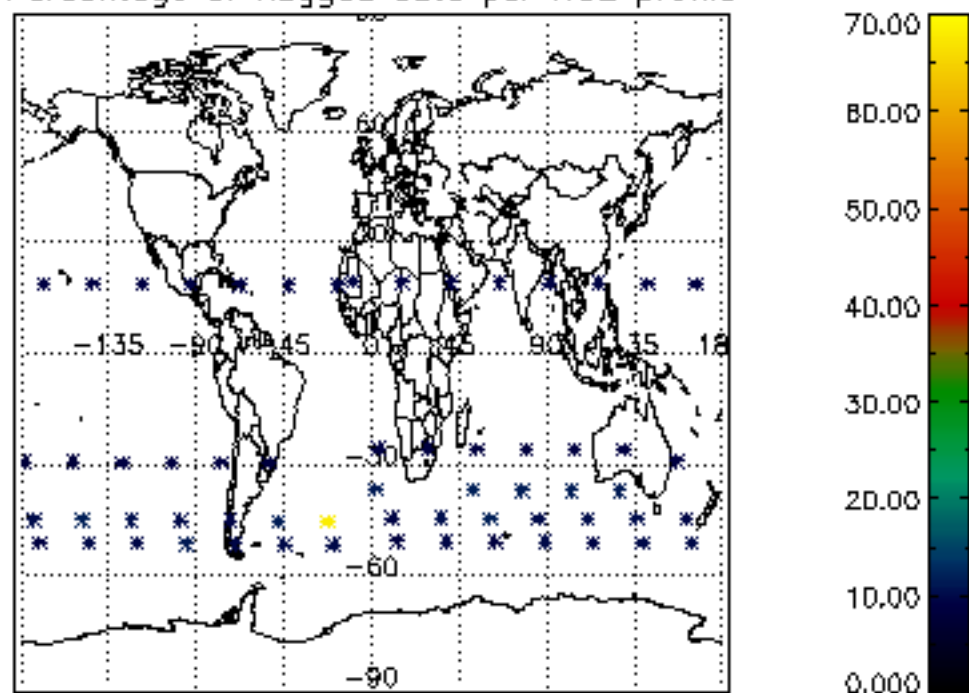
Percentage of flagged data per D3 profile



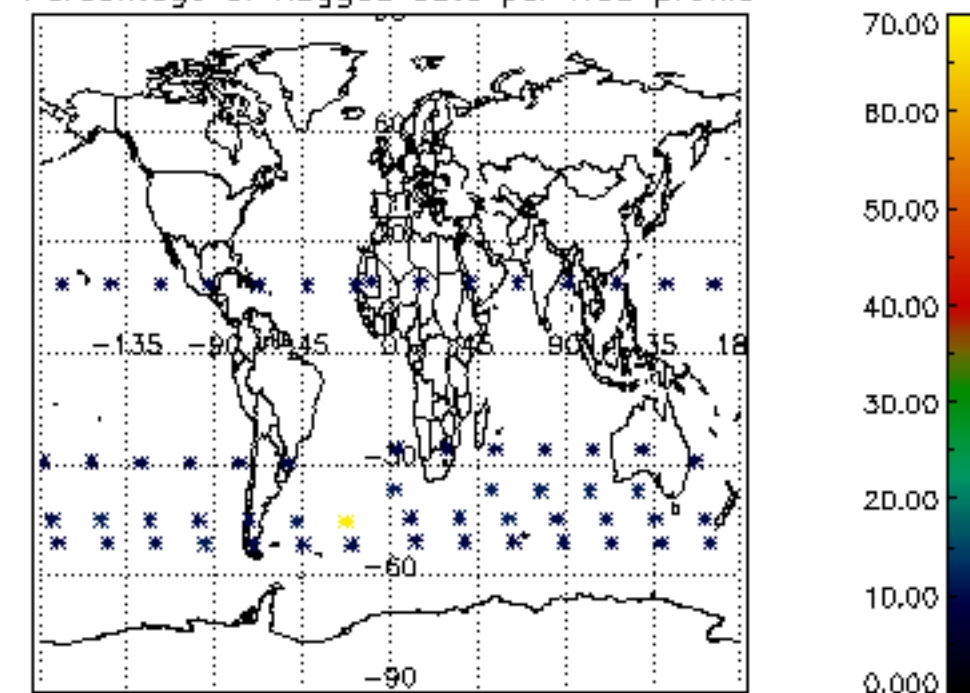
Percentage of flagged data per H2O profile

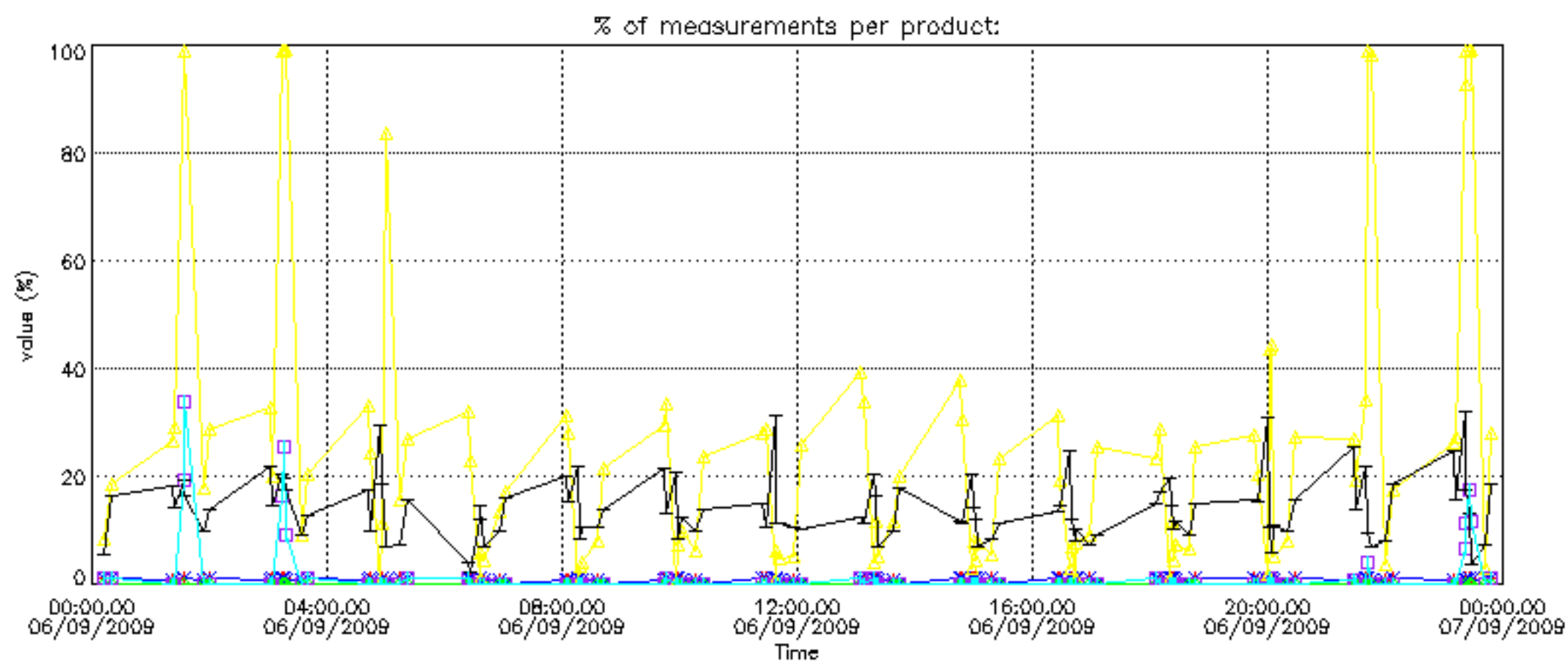
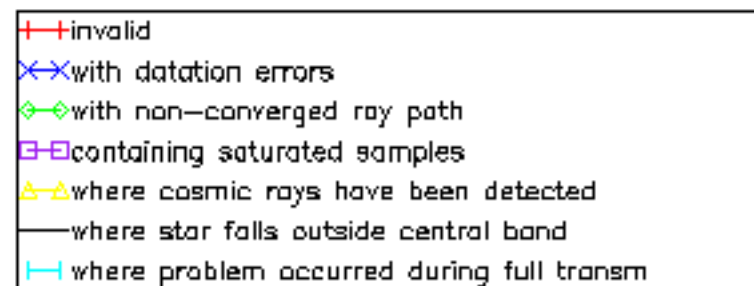


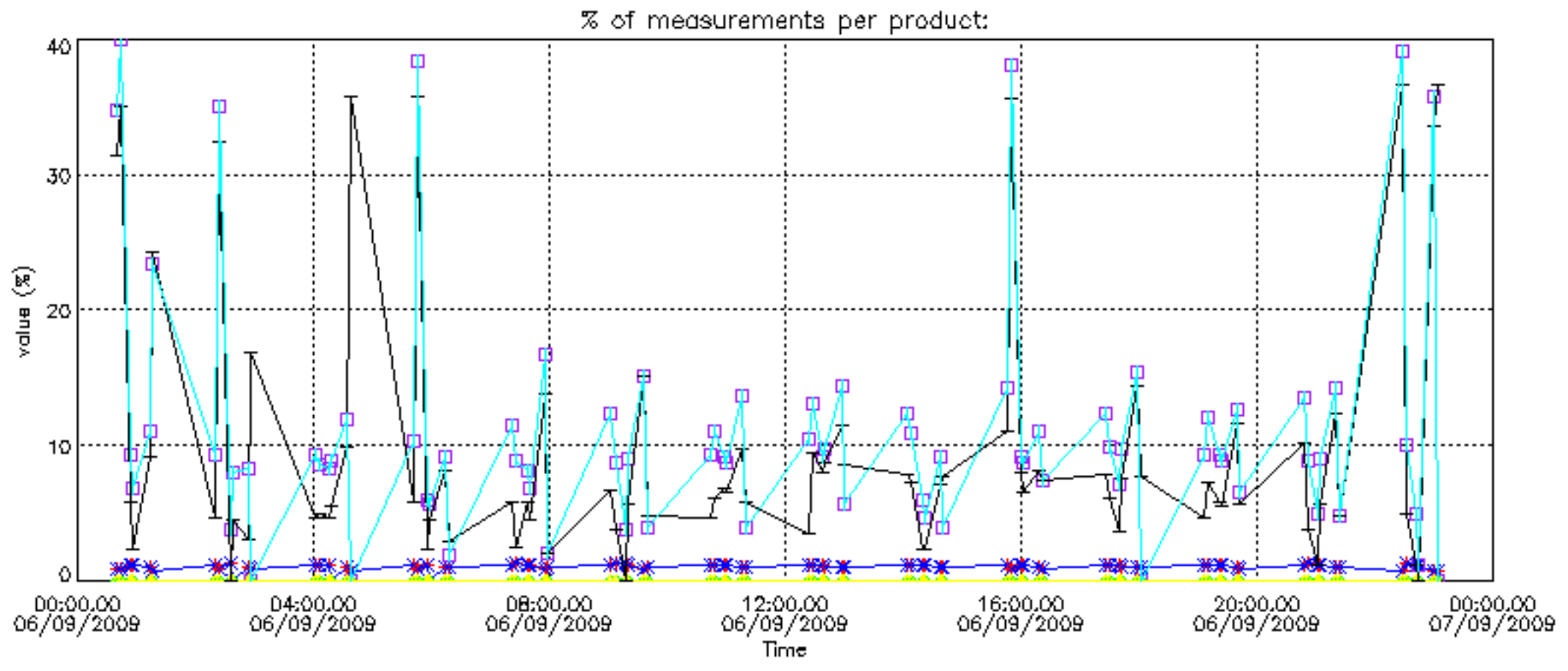
Percentage of flagged data per NO2 profile



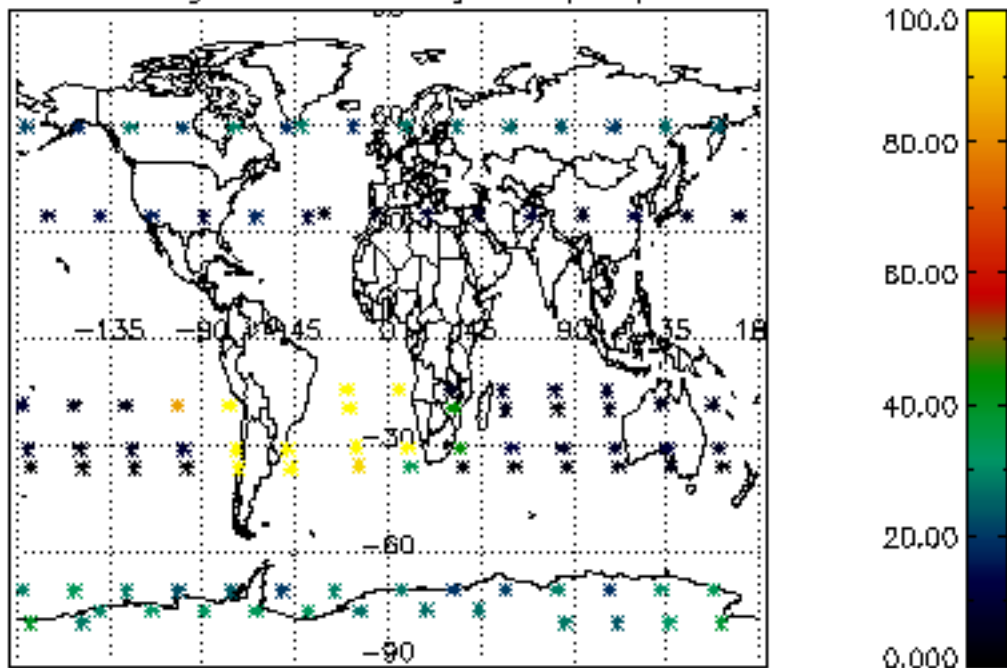
Percentage of flagged data per NO3 profile



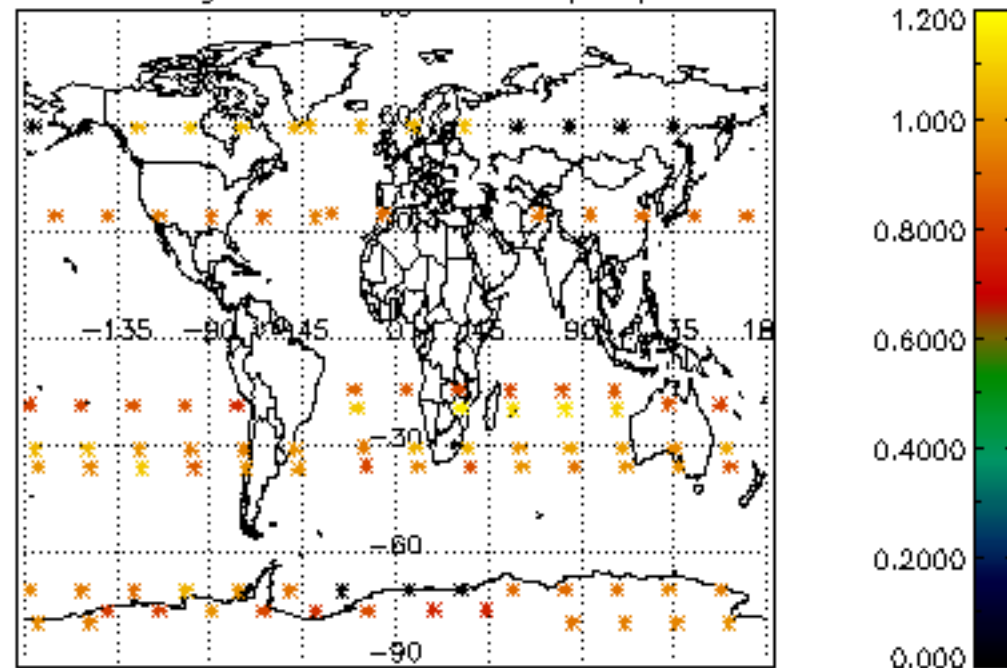




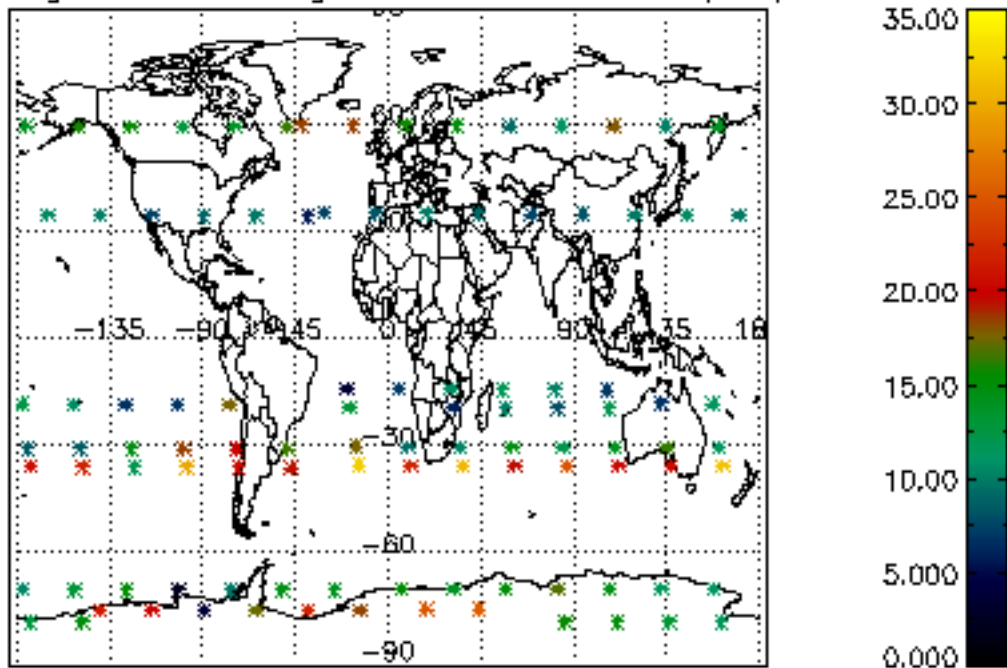
Percentage of cosmic ray hits per profile



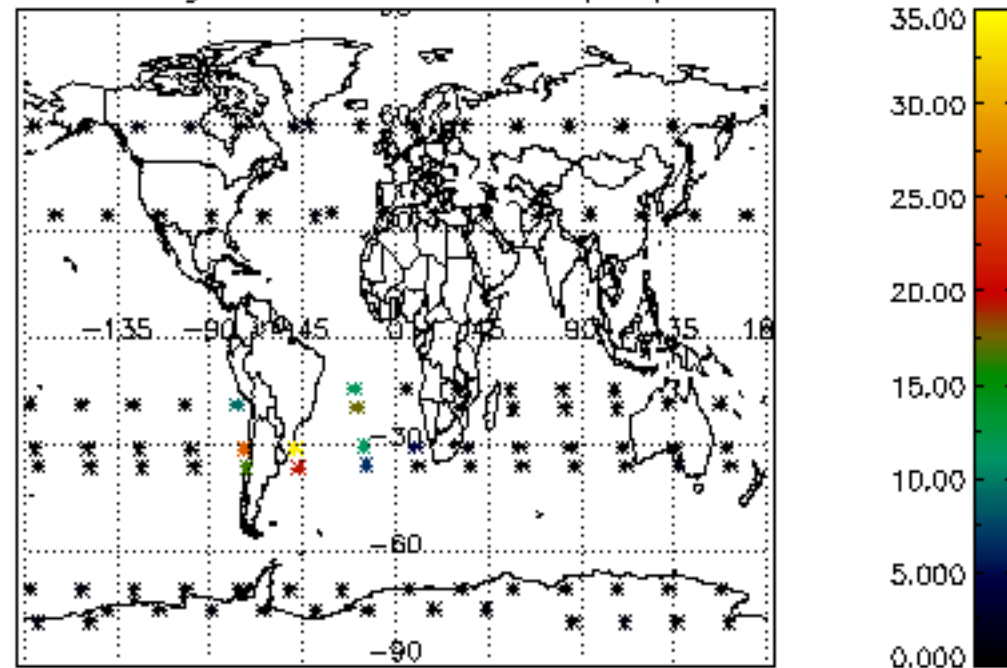
Percentage of datation errors per profile



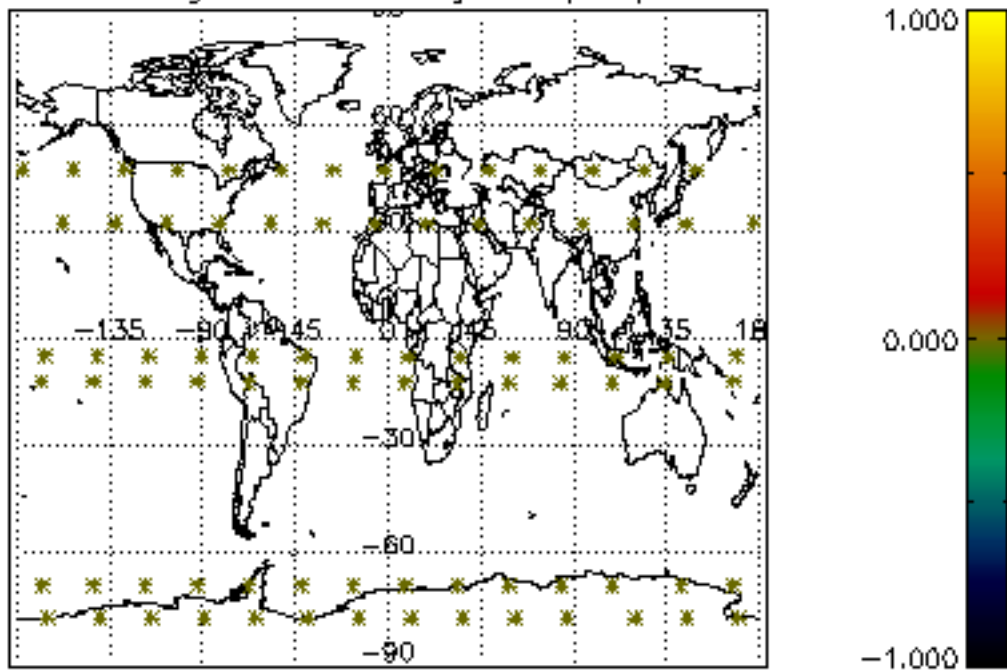
Percentage of star falling outside central band per profile



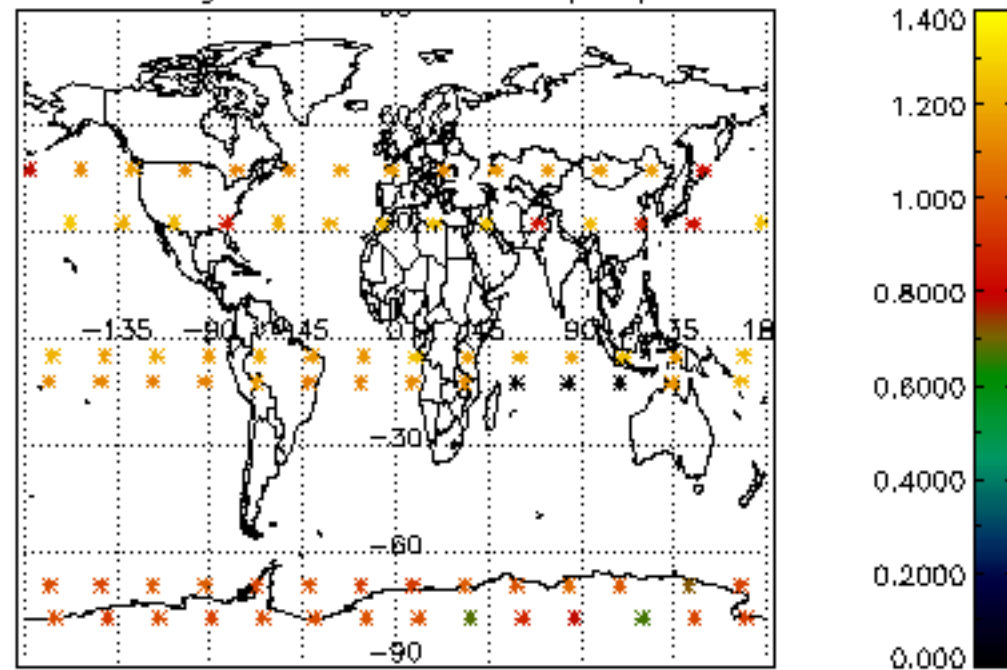
Percentage of saturation errors per profile



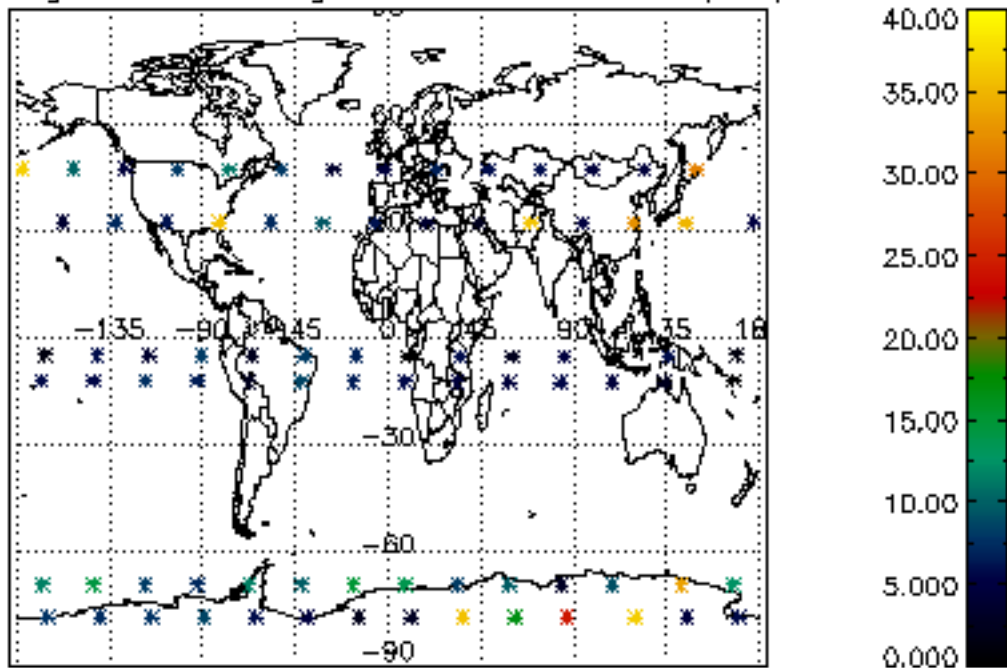
Percentage of cosmic ray hits per profile



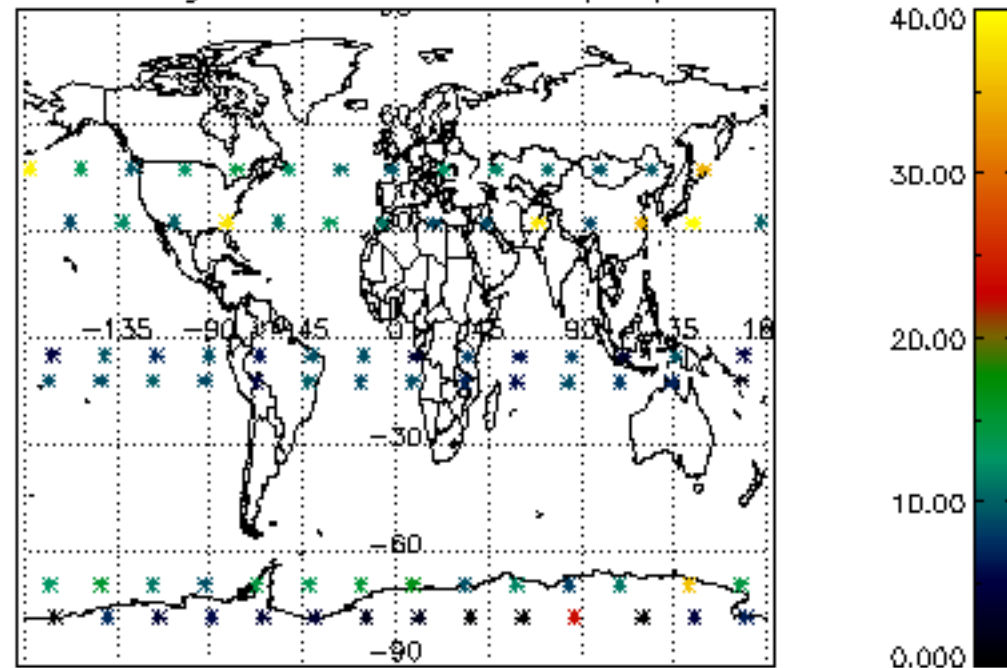
Percentage of datation errors per profile

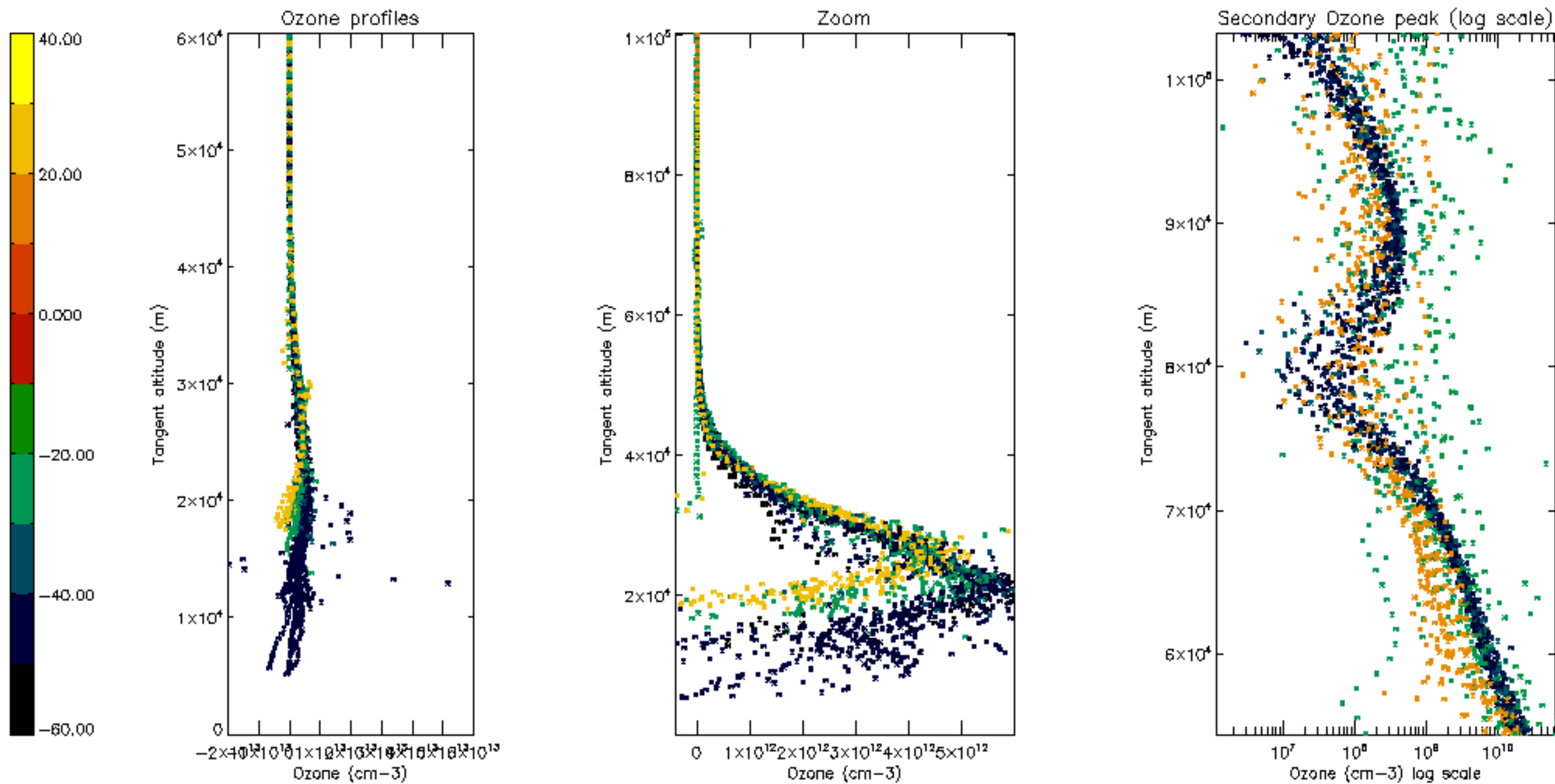


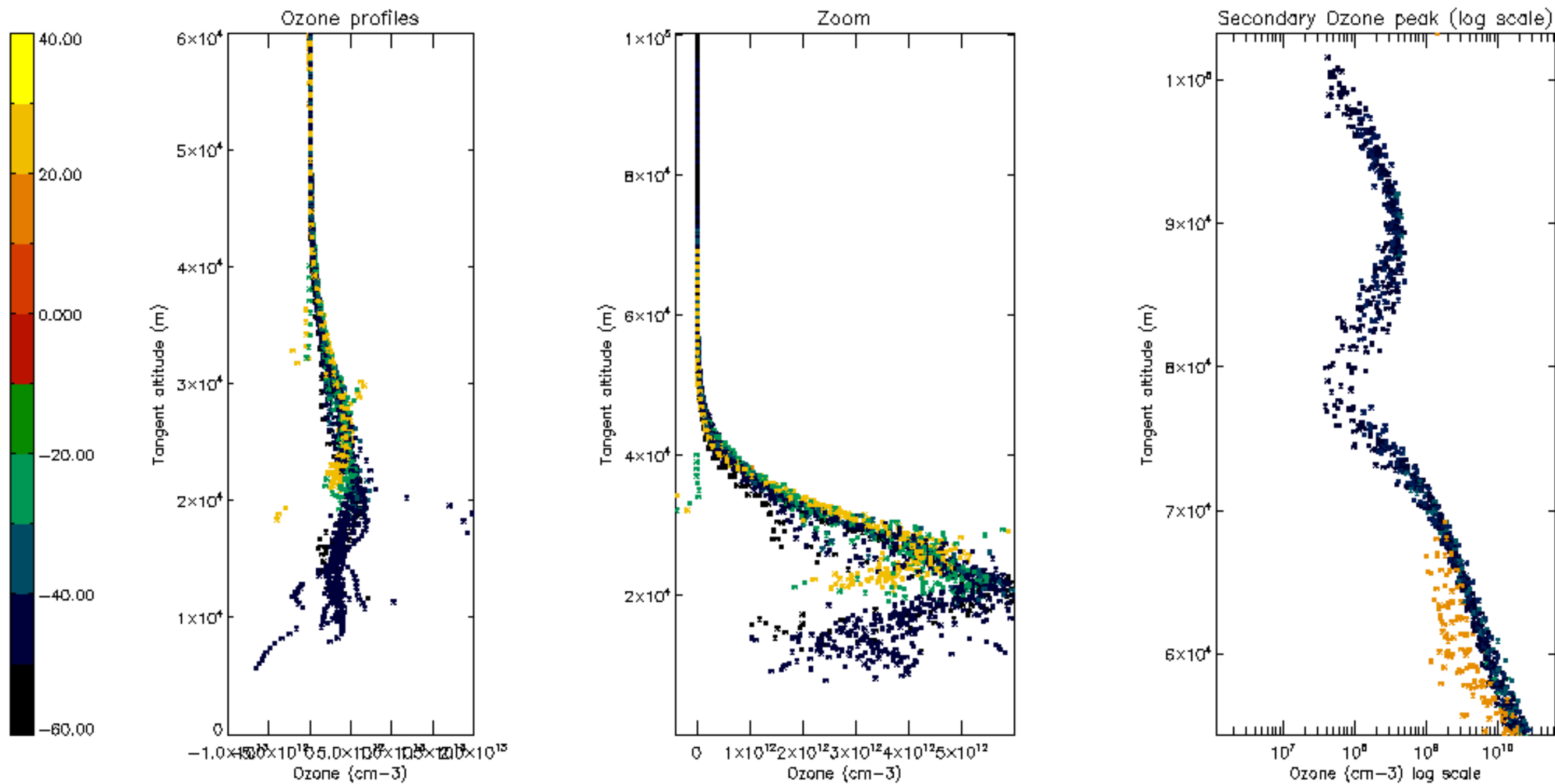
Percentage of star falling outside central band per profile

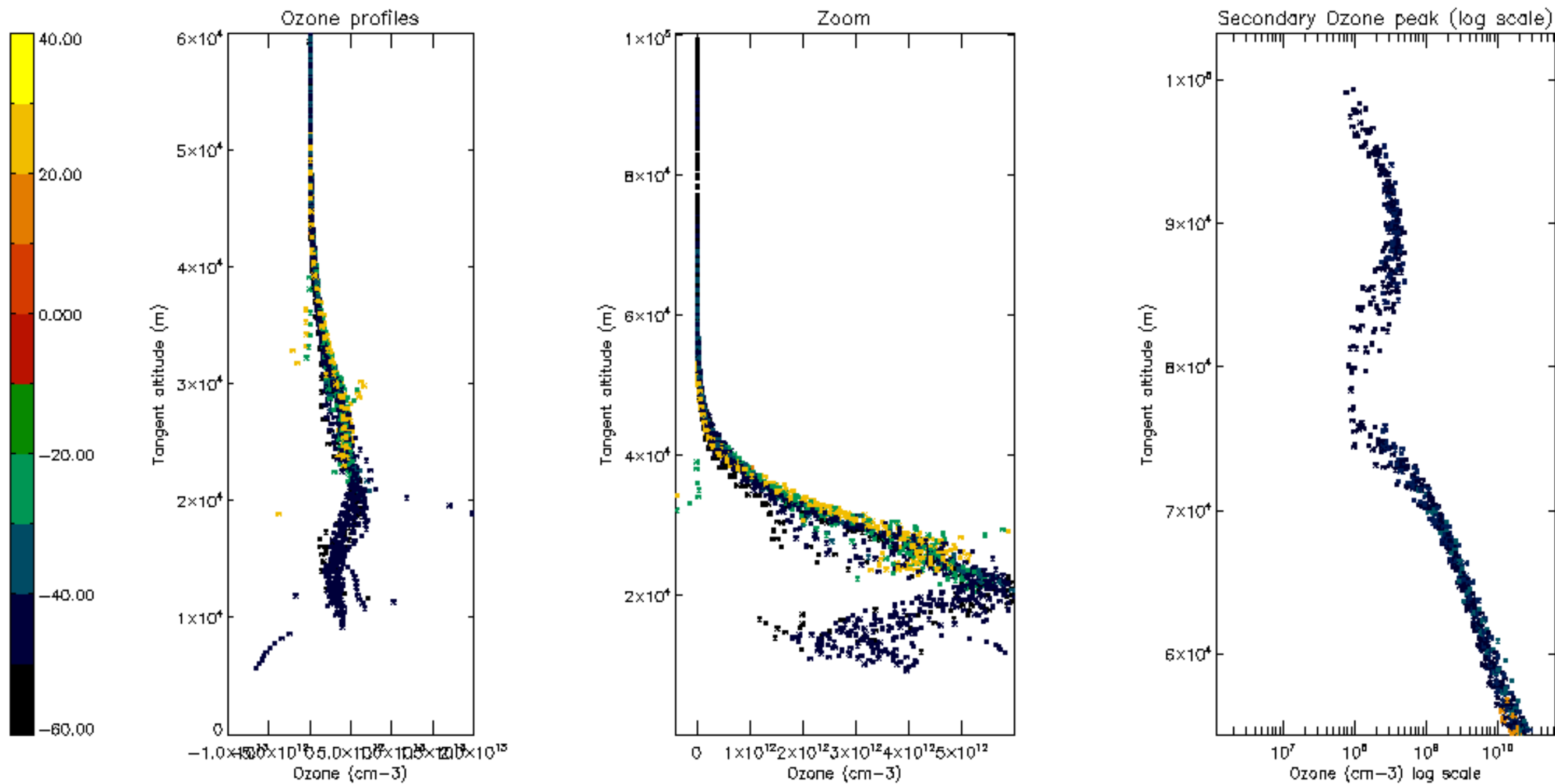


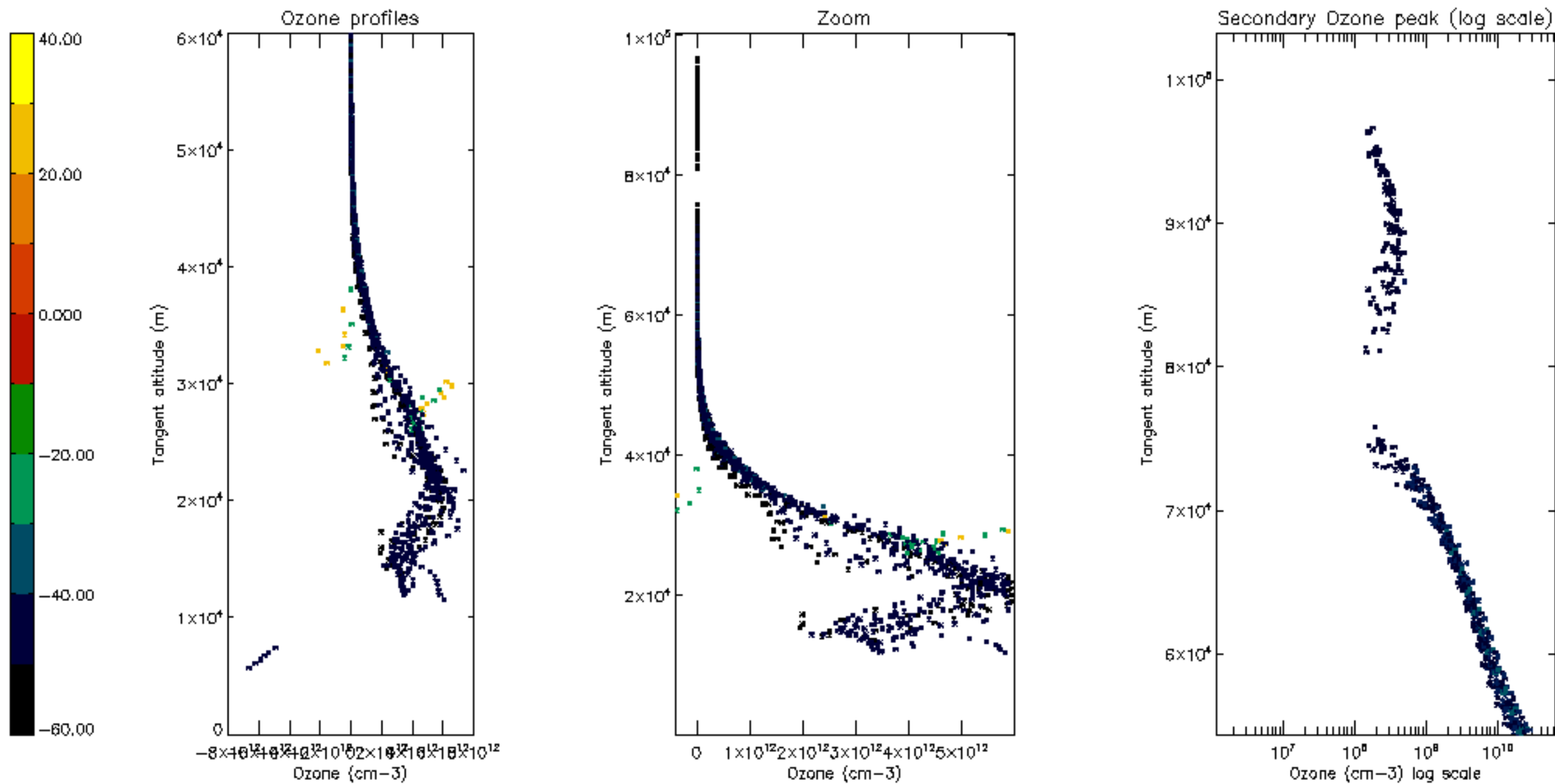
Percentage of saturation errors per profile

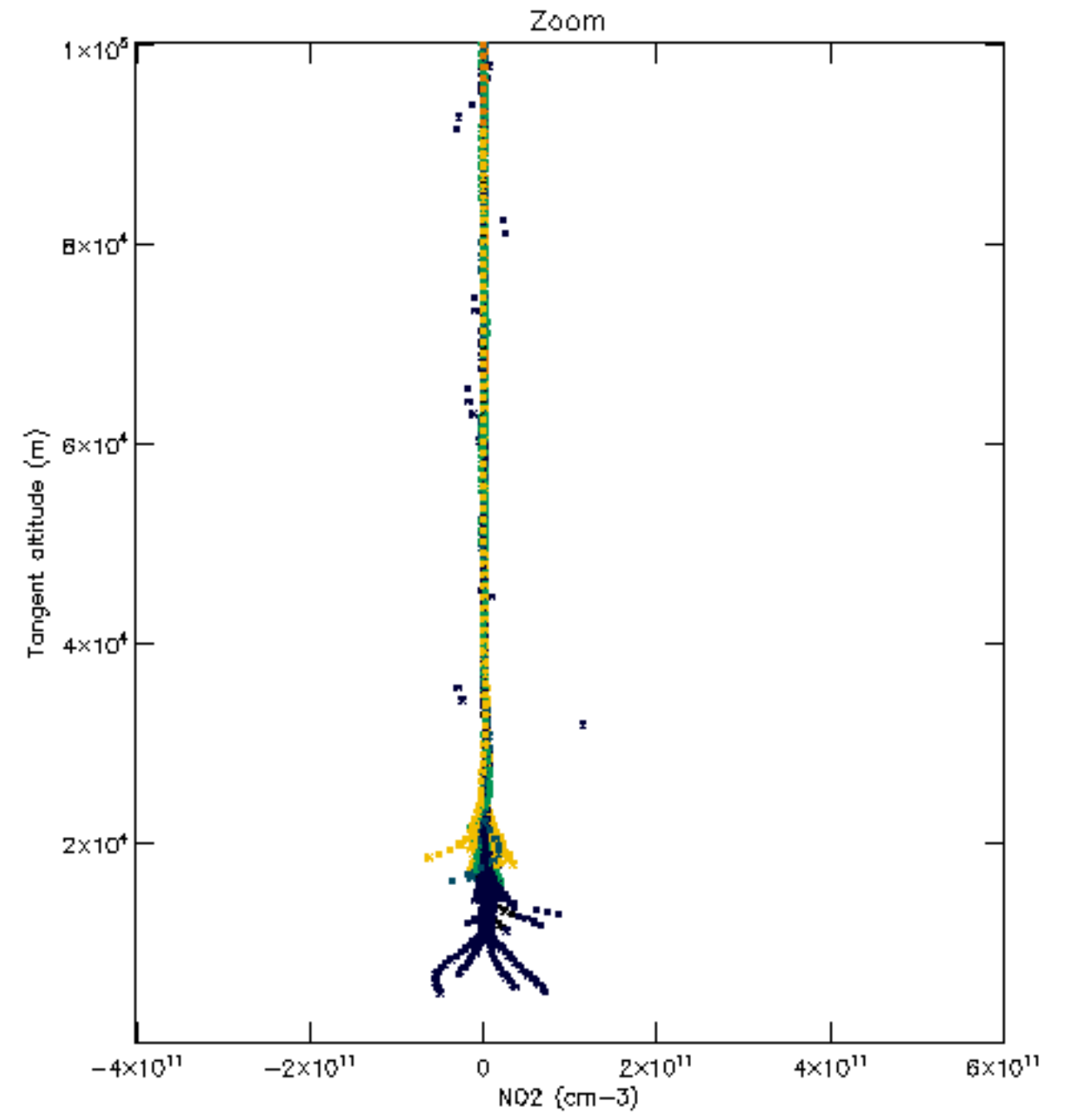
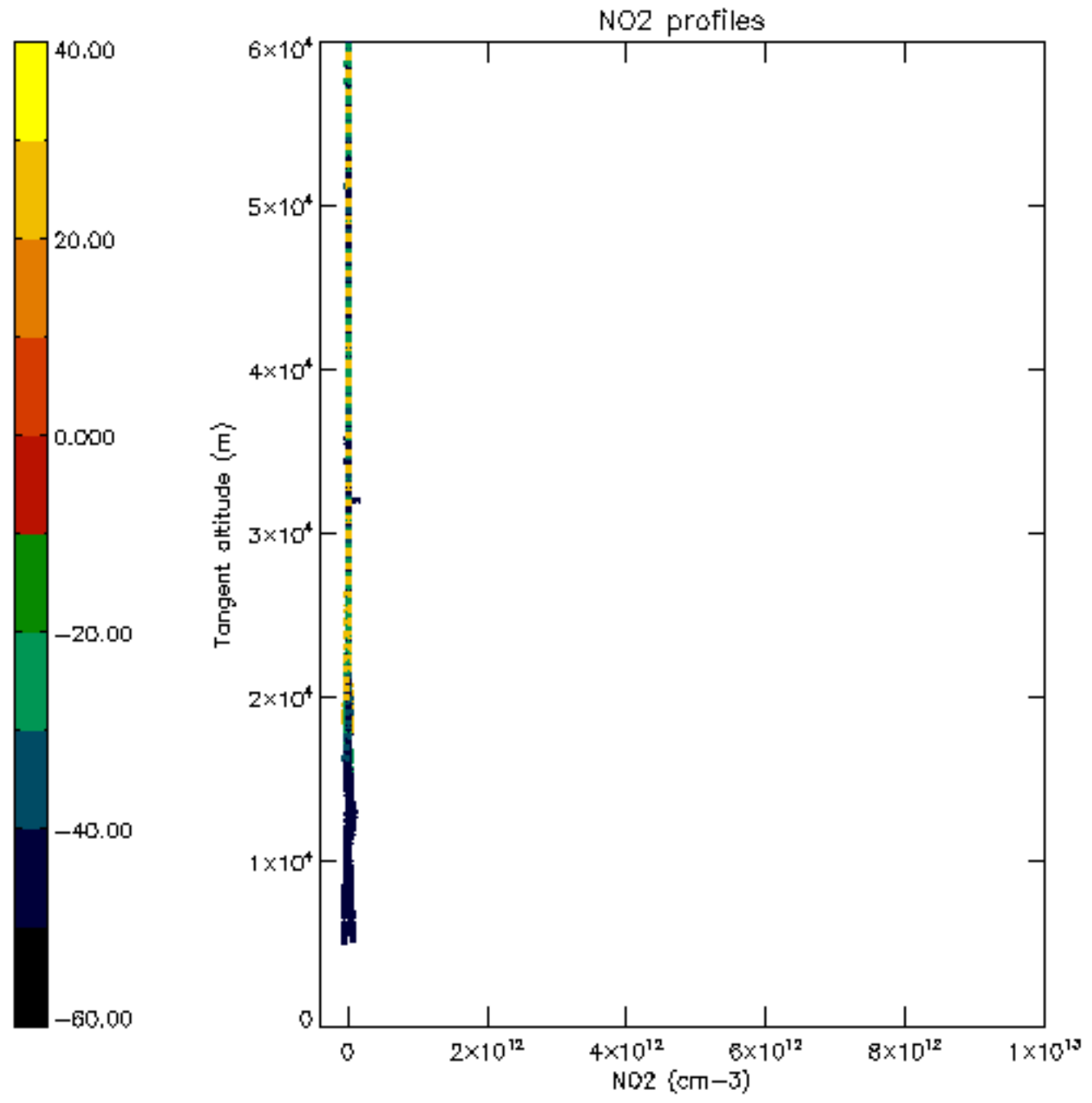


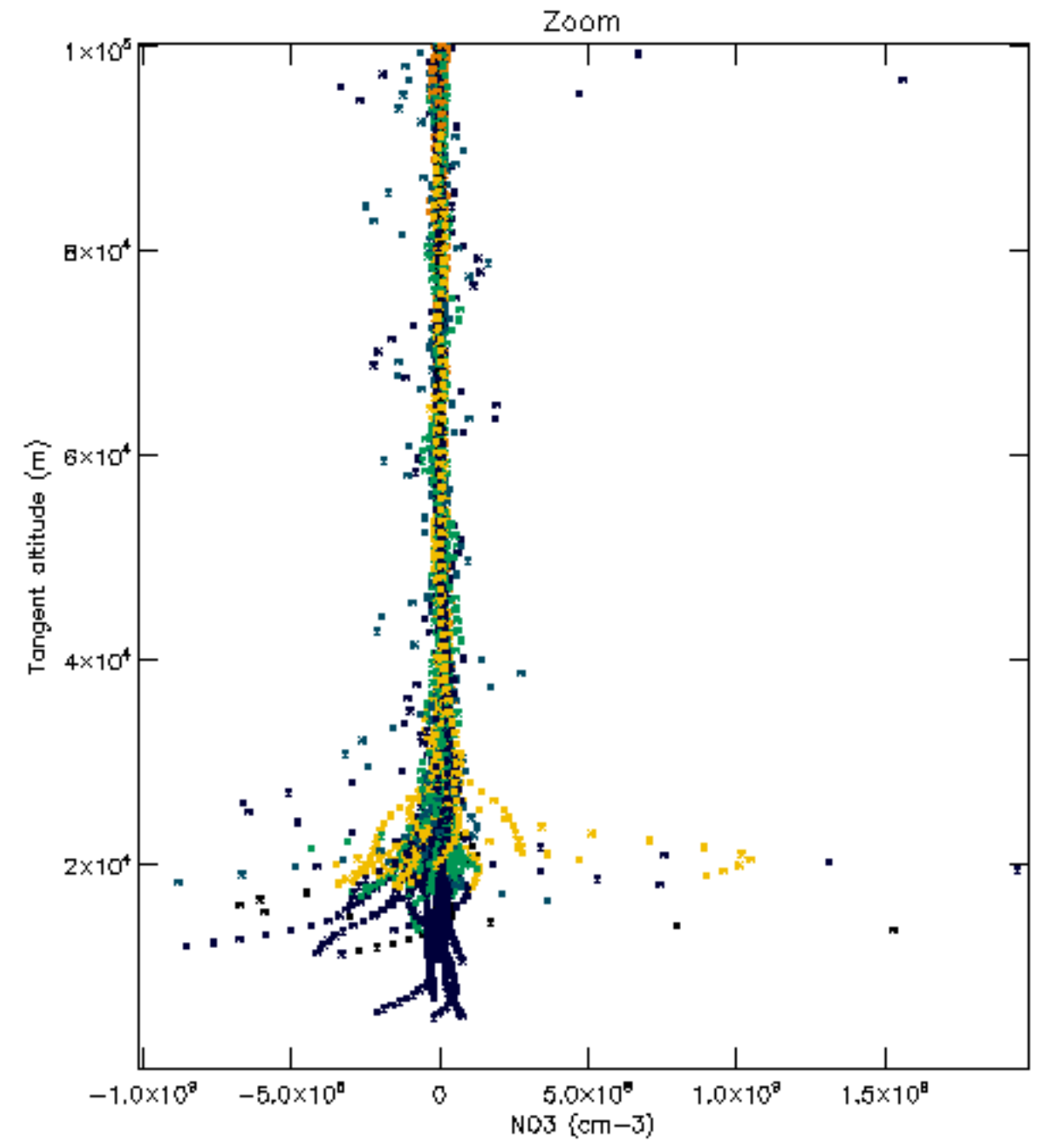
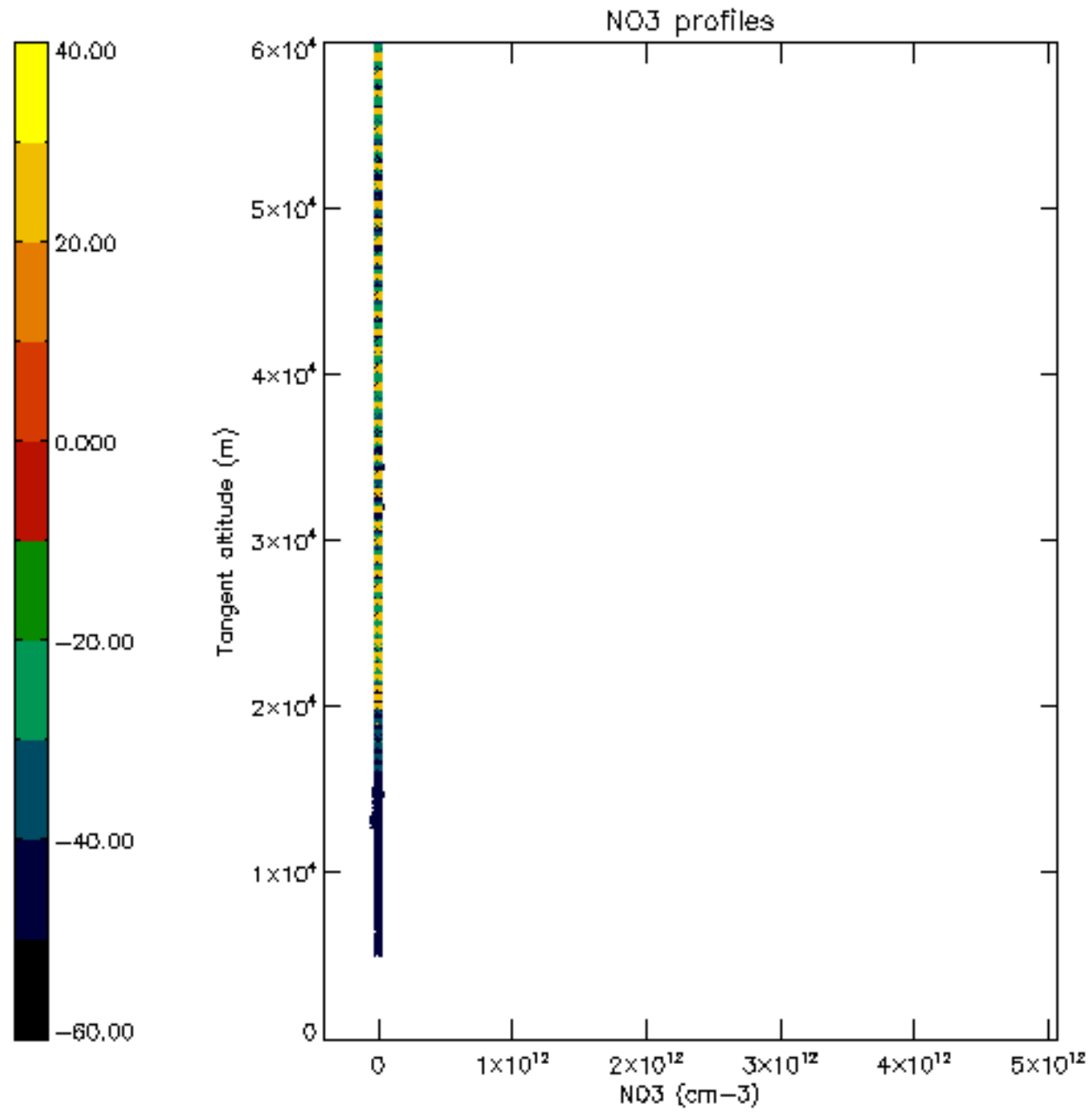


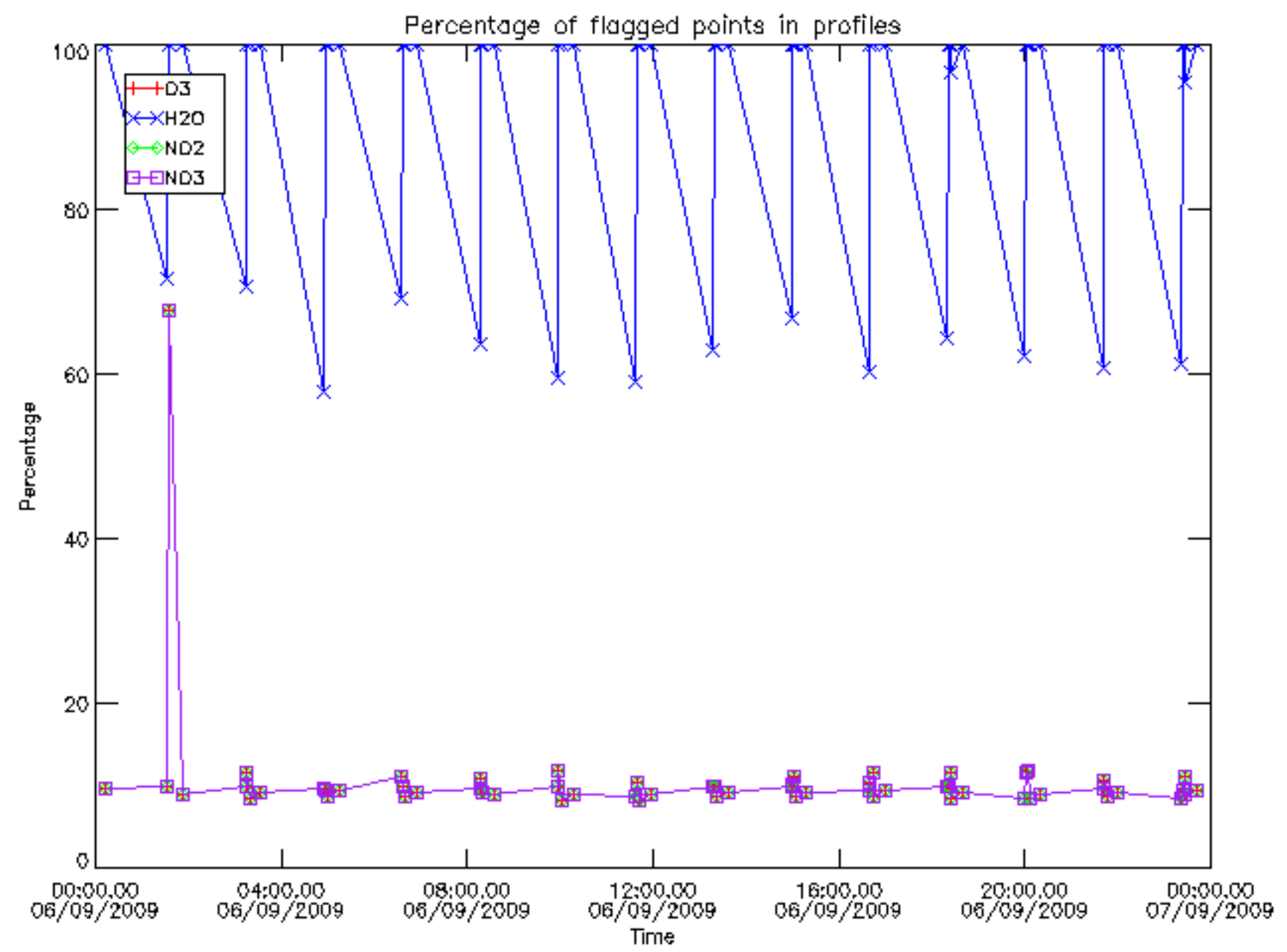




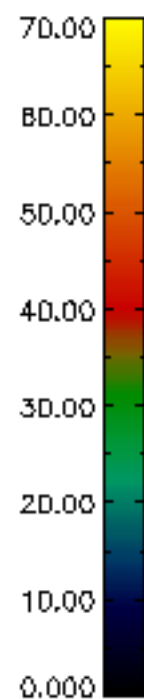
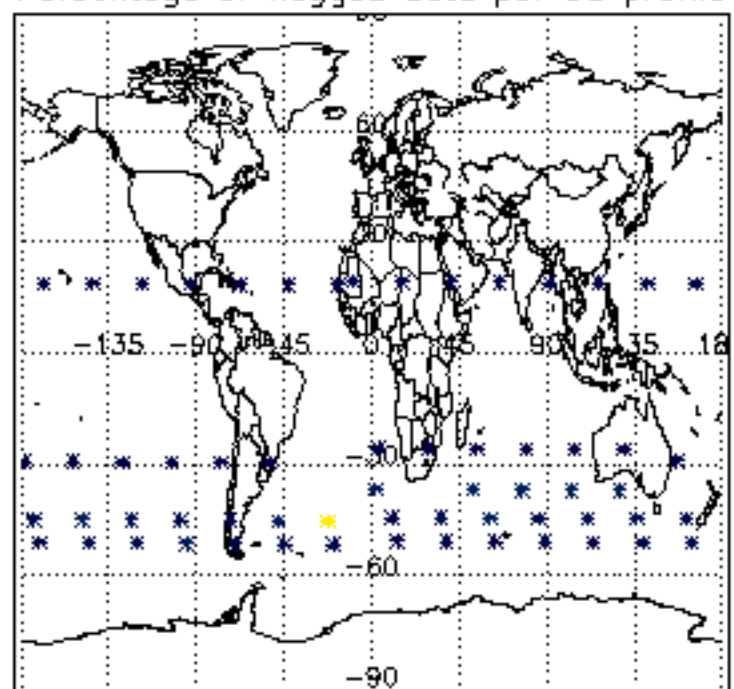




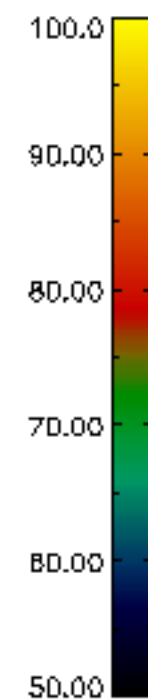
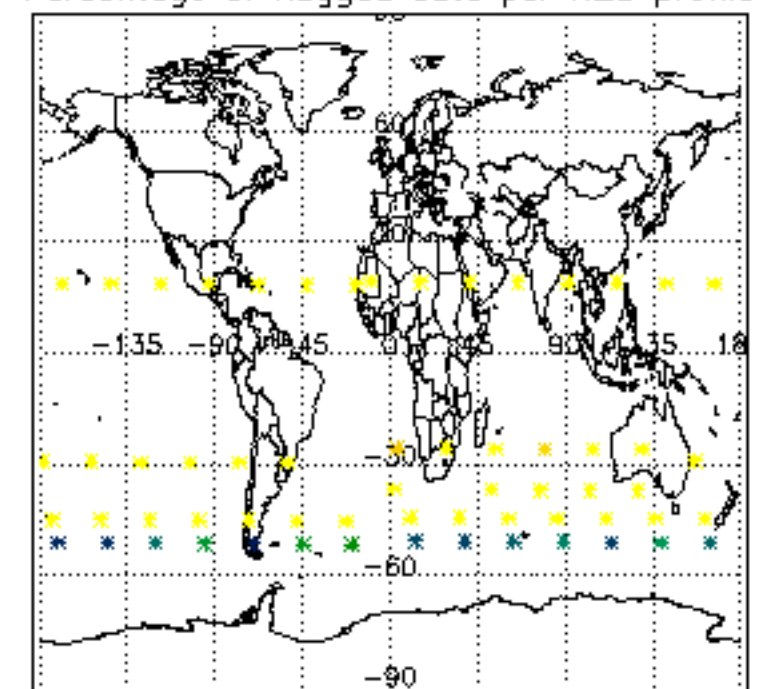




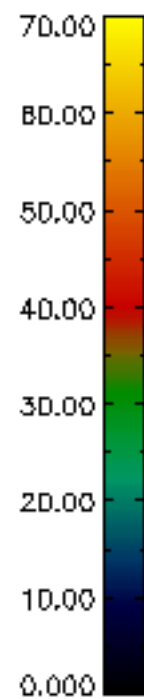
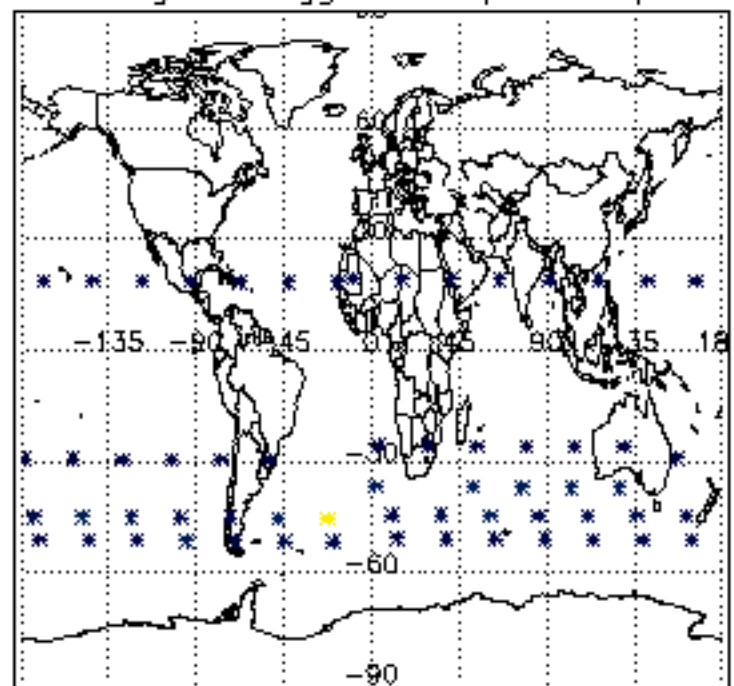
Percentage of flagged data per D3 profile



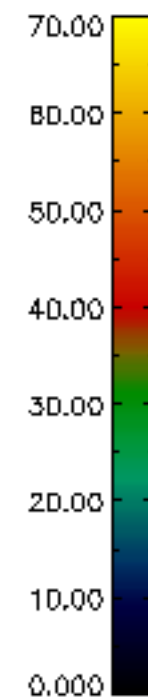
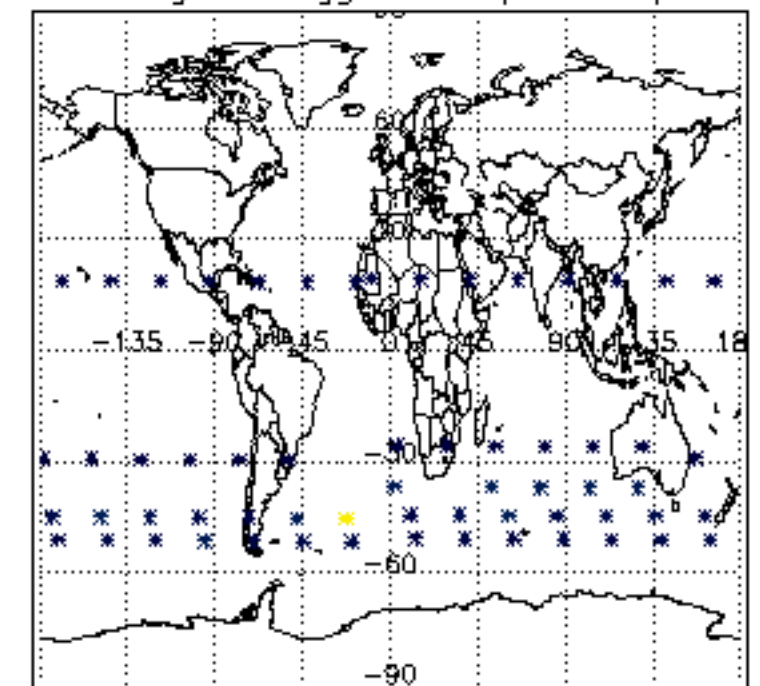
Percentage of flagged data per H2O profile

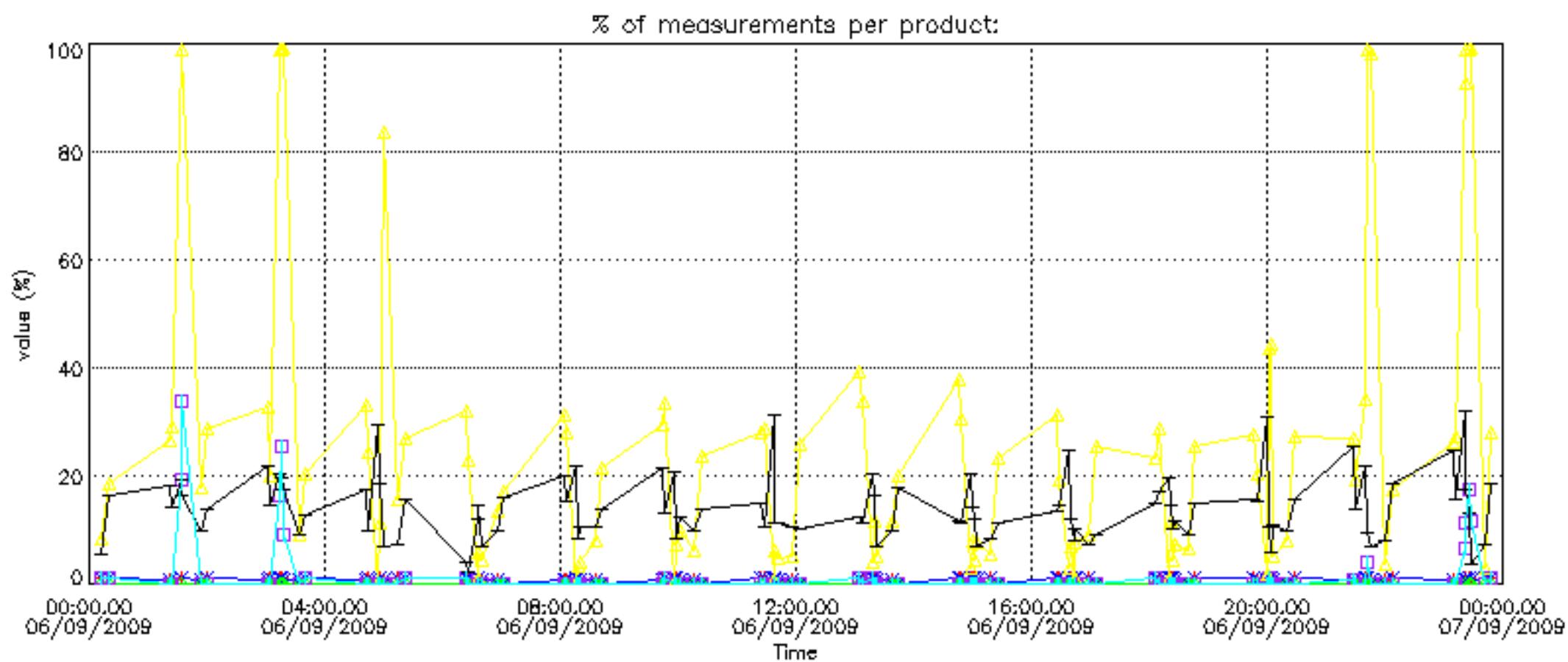


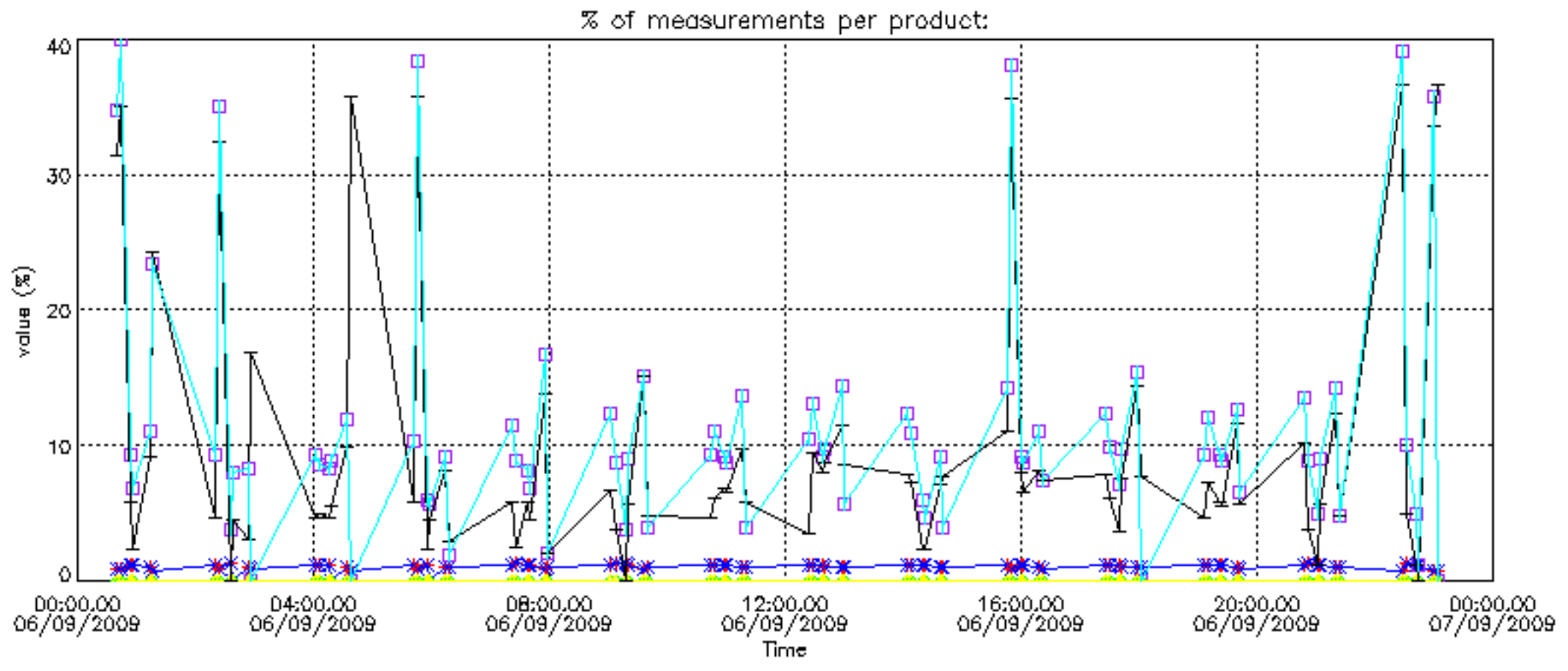
Percentage of flagged data per NO2 profile



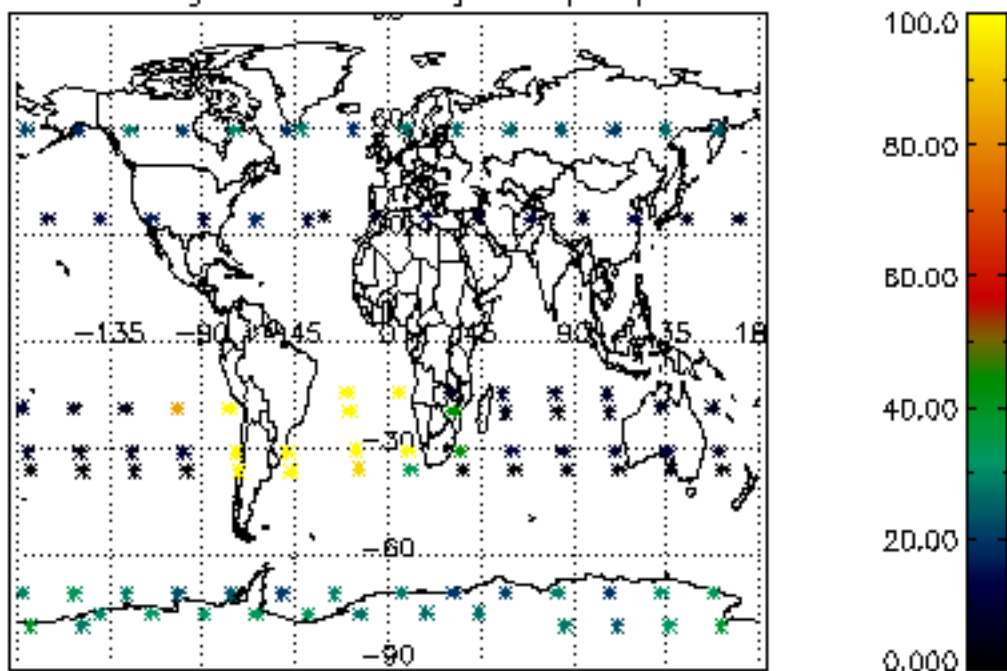
Percentage of flagged data per NO3 profile



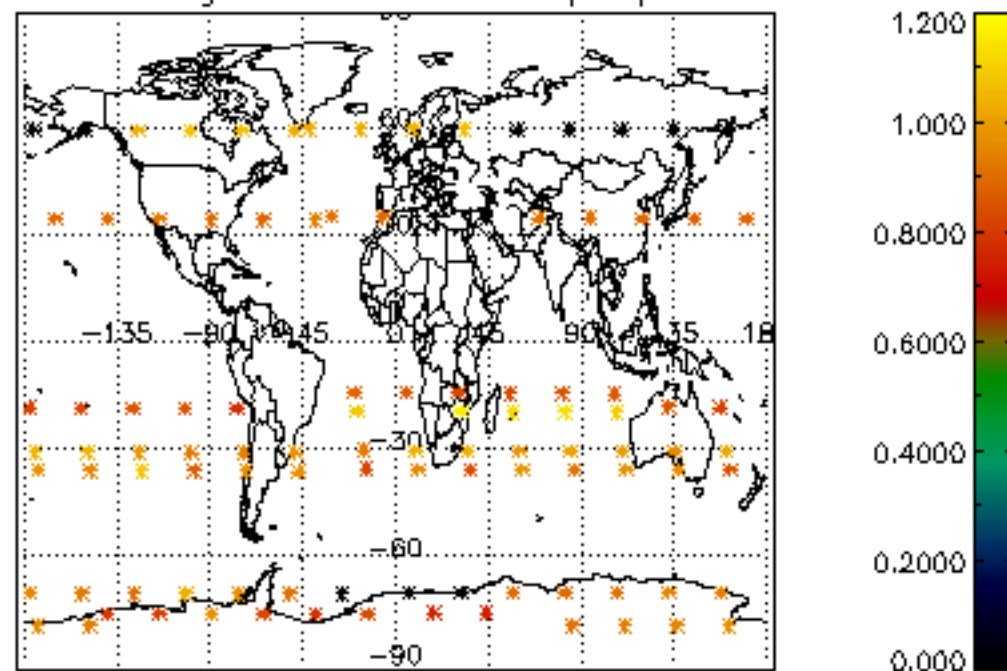




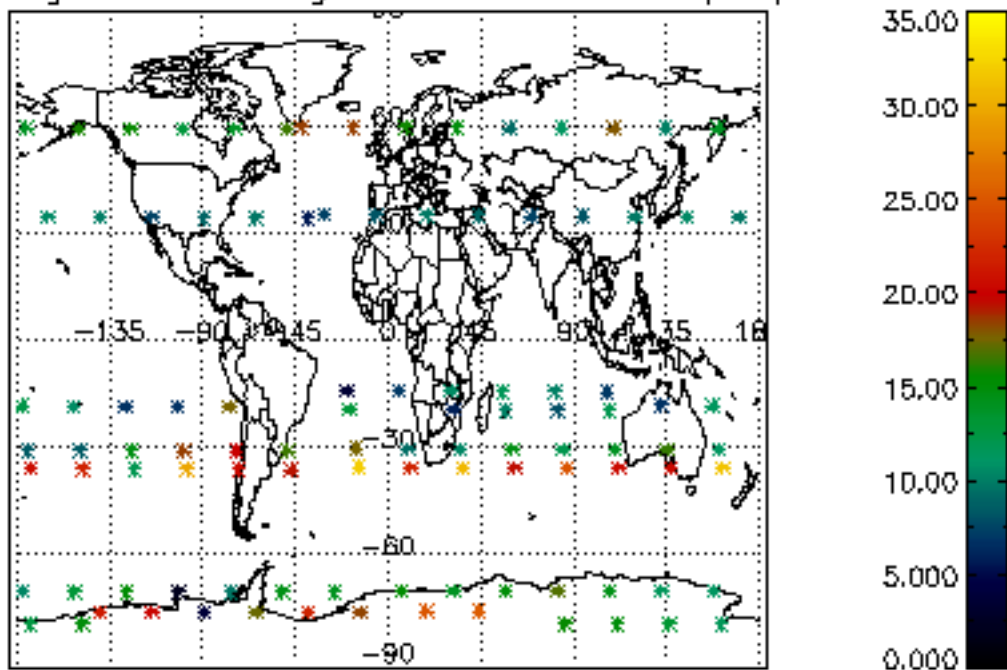
Percentage of cosmic ray hits per profile



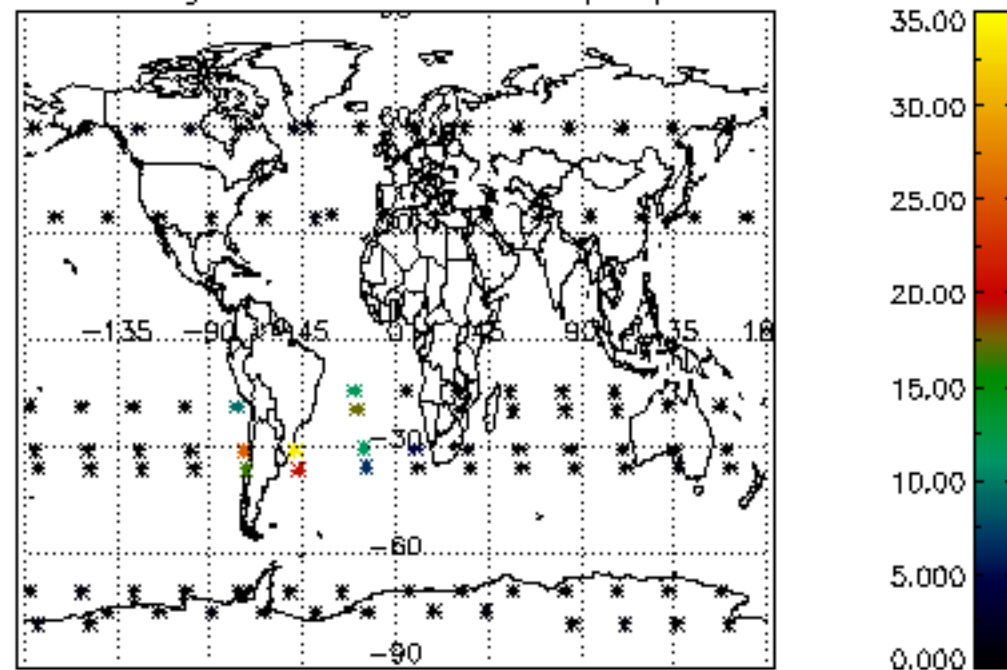
Percentage of datation errors per profile



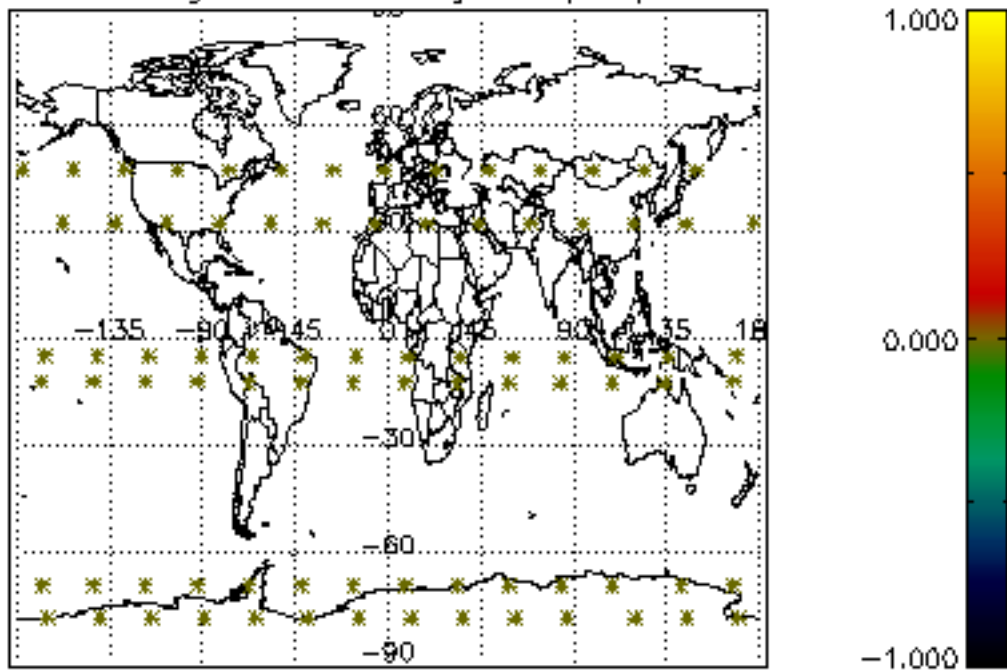
Percentage of star falling outside central band per profile



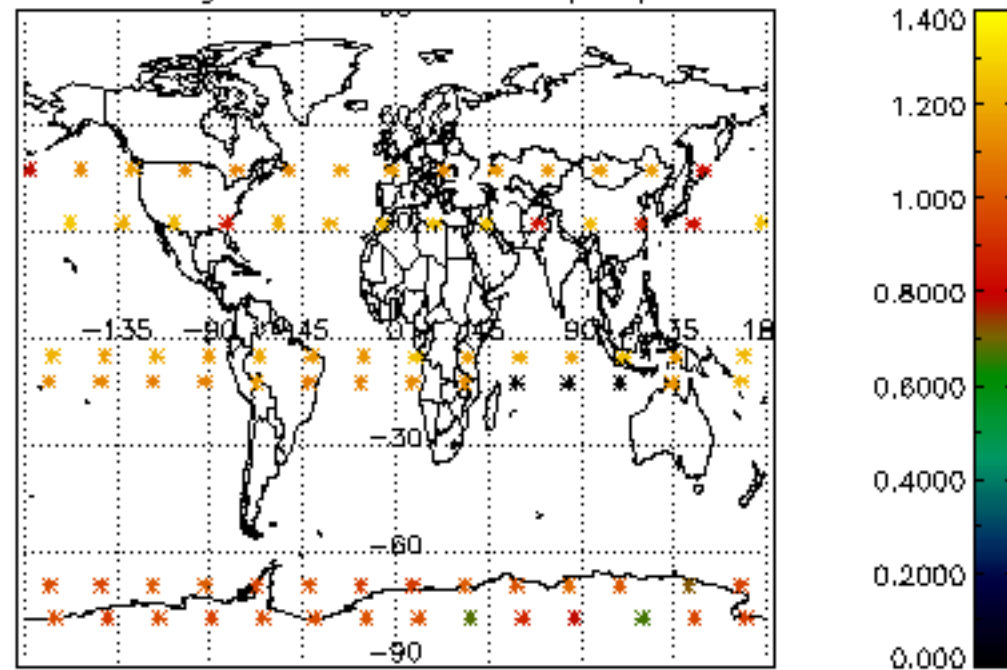
Percentage of saturation errors per profile



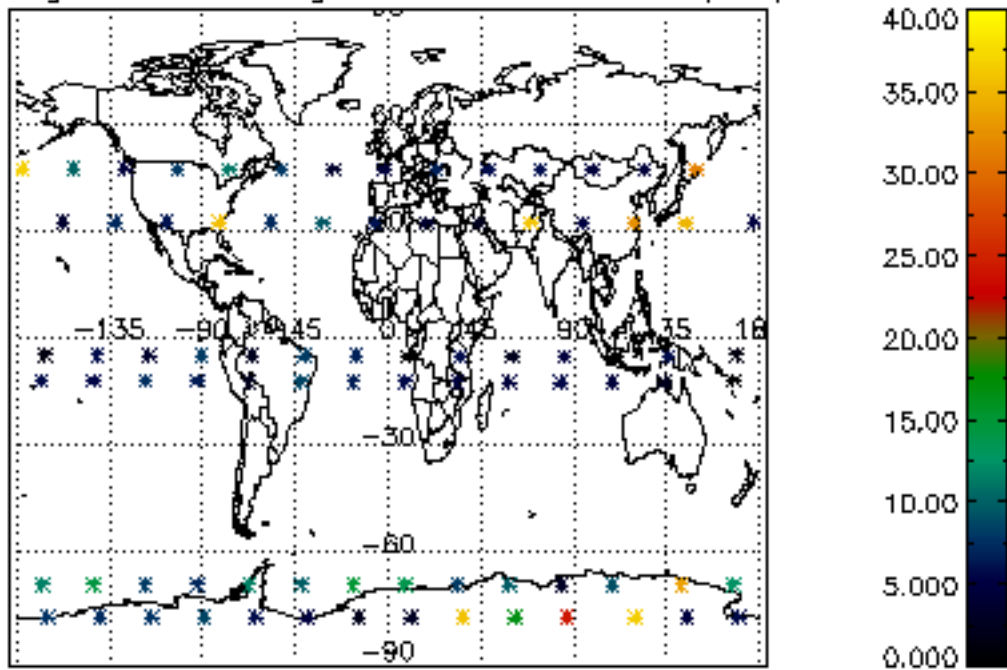
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

