

# GOMOS Level 2 Daily Report

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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 | 25APR2013 22:29:40              |
| Data source version       | GOMOS/6.01                      |
| Start time of products    | 22-11-2008 (22NOV2008 00:00:00) |
| Stop time of products     | 23-11-2008 (23NOV2008 00:00:00) |
| Store outputs in DB       | Yes                             |
| Nb of level 2 prods       | 200                             |
| 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__2PRFIN20081122_000315_000000512074_00059_35183_4087.N1 | 22-NOV-2008 00:03:15 | Bright     | 51.000   | 6       | 13Alp Aur | 0.080000 | 3400.0    | 102     | 35183 | No          |
| 2  | GOM_NL__2PRFIN20081122_000545_000000572074_00059_35183_4088.N1 | 22-NOV-2008 00:05:45 | Bright     | 57.000   | 42      | 34Bet Aur | 1.9000   | 10200.    | 114     | 35183 | No          |
| 3  | GOM_NL__2PRFIN20081122_002423_000000472074_00059_35183_4089.N1 | 22-NOV-2008 00:24:23 | Bright     | 47.000   | 174     | 52Psi UMa | 3.0040   | 4400.0    | 94      | 35183 | No          |
| 4  | GOM_NL__2PRFIN20081122_003353_000000542074_00059_35183_4090.N1 | 22-NOV-2008 00:33:53 | Bright     | 54.000   | 96      | 68Del Leo | 2.5600   | 9300.0    | 108     | 35183 | No          |
| 5  | GOM_NL__2PRFIN20081122_003647_000001052074_00059_35183_4091.N1 | 22-NOV-2008 00:36:47 | Twilight   | 105.00   | 51      | 41Gam1Leo | 2.0100   | 4500.0    | 210     | 35183 | No          |
| 6  | GOM_NL__2PRFIN20081122_004246_000000282074_00059_35183_4092.N1 | 22-NOV-2008 00:42:46 | Straylight | 27.500   | 22      | 32Alp Leo | 1.3600   | 15200.    | 55      | 35183 | No          |
| 7  | GOM_NL__2PRFIN20081122_010419_000000562074_00060_35184_4093.N1 | 22-NOV-2008 01:04:19 | Dark       | 55.500   | 70      | Zet Pup   | 2.2460   | 39000.    | 111     | 35184 | No          |
| 8  | GOM_NL__2PRFIN20081122_010808_000000642074_00060_35184_4094.N1 | 22-NOV-2008 01:08:08 | Dark       | 63.500   | 117     | Pi Pup    | 2.7060   | 3800.0    | 127     | 35184 | No          |
| 9  | GOM_NL__2PRFIN20081122_011211_000000732074_00060_35184_4095.N1 | 22-NOV-2008 01:12:11 | Dark       | 72.500   | 23      | 21Eps CMa | 1.5020   | 26000.    | 145     | 35184 | No          |
| 10 | GOM_NL__2PRFIN20081122_011429_000000872074_00060_35184_4096.N1 | 22-NOV-2008 01:14:29 | Straylight | 87.000   | 179     | 24Omi2CMa | 3.0320   | 24000.    | 174     | 35184 | No          |
| 11 | GOM_NL__2PRFIN20081122_011926_000000882074_00060_35184_4097.N1 | 22-NOV-2008 01:19:26 | Straylight | 87.500   | 47      | 2Bet CMa  | 1.9760   | 28000.    | 175     | 35184 | No          |
| 12 | GOM_NL__2PRFIN20081122_012416_000000682074_00060_35184_4098.N1 | 22-NOV-2008 01:24:16 | Straylight | 68.000   | 7       | 19Bet Ori | 0.10000  | 14000.    | 136     | 35184 | No          |
| 13 | GOM_NL__2PRFIN20081122_012811_000000792074_00060_35184_4099.N1 | 22-NOV-2008 01:28:11 | Twilight   | 78.500   | 30      | 46Eps Ori | 1.6940   | 30000.    | 157     | 35184 | No          |
| 14 | GOM_NL__2PRFIN20081122_013257_000000562074_00060_35184_4100.N1 | 22-NOV-2008 01:32:57 | Bright     | 56.000   | 13      | 87Alp Tau | 0.86700  | 3800.0    | 112     | 35184 | No          |
| 15 | GOM_NL__2PRFIN20081122_013925_000000522074_00060_35184_4101.N1 | 22-NOV-2008 01:39:25 | Bright     | 52.000   | 114     | 3lot Aur  | 2.6930   | 4600.0    | 104     | 35184 | No          |
| 16 | GOM_NL__2PRFIN20081122_014351_000000512074_00060_35184_4102.N1 | 22-NOV-2008 01:43:51 | Bright     | 50.500   | 6       | 13Alp Aur | 0.080000 | 3400.0    | 101     | 35184 | No          |
| 17 | GOM_NL__2PRFIN20081122_014620_000000582074_00060_35184_4103.N1 | 22-NOV-2008 01:46:20 | Bright     | 57.500   | 42      | 34Bet Aur | 1.9000   | 10200.    | 115     | 35184 | No          |
| 18 | GOM_NL__2PRFIN20081122_020459_000000462074_00060_35184_4104.N1 | 22-NOV-2008 02:04:59 | Bright     | 45.500   | 174     | 52Psi UMa | 3.0040   | 4400.0    | 91      | 35184 | No          |
| 19 | GOM_NL__2PRFIN20081122_021429_000000552074_00060_35184_4105.N1 | 22-NOV-2008 02:14:29 | Bright     | 54.500   | 96      | 68Del Leo | 2.5600   | 9300.0    | 109     | 35184 | No          |
| 20 | GOM_NL__2PRFIN20081122_021724_000001082074_00060_35184_4106.N1 | 22-NOV-2008 02:17:24 | Twilight   | 107.50   | 51      | 41Gam1Leo | 2.0100   | 4500.0    | 215     | 35184 | No          |
| 21 | GOM_NL__2PRFIN20081122_024456_000000562074_00061_35185_4118.N1 | 22-NOV-2008 02:44:56 | Dark       | 55.500   | 70      | Zet Pup   | 2.2460   | 39000.    | 111     | 35185 | No          |
| 22 | GOM_NL__2PRFIN20081122_024845_000000622074_00061_35185_4119.N1 | 22-NOV-2008 02:48:45 | Dark       | 62.000   | 117     | Pi Pup    | 2.7060   | 3800.0    | 124     | 35185 | No          |
| 23 | GOM_NL__2PRFIN20081122_025248_000000752074_00061_35185_4120.N1 | 22-NOV-2008 02:52:48 | Dark       | 74.500   | 23      | 21Eps CMa | 1.5020   | 26000.    | 149     | 35185 | No          |
| 24 | GOM_NL__2PRFIN20081122_025506_000000862074_00061_35185_4121.N1 | 22-NOV-2008 02:55:06 | Straylight | 86.000   | 179     | 24Omi2CMa | 3.0320   | 24000.    | 172     | 35185 | No          |
| 25 | GOM_NL__2PRFIN20081122_030002_000000862074_00061_35185_4122.N1 | 22-NOV-2008 03:00:02 | Straylight | 86.000   | 47      | 2Bet CMa  | 1.9760   | 28000.    | 172     | 35185 | No          |
| 26 | GOM_NL__2PRFIN20081122_030451_000000702074_00061_35185_4123.N1 | 22-NOV-2008 03:04:51 | Straylight | 70.000   | 7       | 19Bet Ori | 0.10000  | 14000.    | 140     | 35185 | No          |
| 27 | GOM_NL__2PRFIN20081122_030846_000000812074_00061_35185_4124.N1 | 22-NOV-2008 03:08:46 | Twilight   | 81.000   | 30      | 46Eps Ori | 1.6940   | 30000.    | 162     | 35185 | No          |
| 28 | GOM_NL__2PRFIN20081122_031333_000000562074_00061_35185_4125.N1 | 22-NOV-2008 03:13:33 | Bright     | 55.500   | 13      | 87Alp Tau | 0.86700  | 3800.0    | 111     | 35185 | No          |
| 29 | GOM_NL__2PRFIN20081122_032000_000000522074_00061_35185_4126.N1 | 22-NOV-2008 03:20:00 | Bright     | 52.000   | 114     | 3lot Aur  | 2.6930   | 4600.0    | 104     | 35185 | No          |
| 30 | GOM_NL__2PRFIN20081122_032426_000000732074_00061_35185_4127.N1 | 22-NOV-2008 03:24:26 | Bright     | 73.000   | 6       | 13Alp Aur | 0.080000 | 3400.0    | 146     | 35185 | No          |
| 31 | GOM_NL__2PRFIN20081122_032655_000000532074_00061_35185_4128.N1 | 22-NOV-2008 03:26:55 | Bright     | 52.500   | 42      | 34Bet Aur | 1.9000   | 10200.    | 105     | 35185 | No          |
| 32 | GOM_NL__2PRFIN20081122_034535_000000462074_00061_35185_4129.N1 | 22-NOV-2008 03:45:35 | Bright     | 46.000   | 174     | 52Psi UMa | 3.0040   | 4400.0    | 92      | 35185 | No          |
| 33 | GOM_NL__2PRFIN20081122_035506_000000552074_00061_35185_4130.N1 | 22-NOV-2008 03:55:06 | Bright     | 54.500   | 96      | 68Del Leo | 2.5600   | 9300.0    | 109     | 35185 | No          |
| 34 | GOM_NL__2PRFIN20081122_035801_000001052074_00061_35185_4131.N1 | 22-NOV-2008 03:58:01 | Twilight   | 105.00   | 51      | 41Gam1Leo | 2.0100   | 4500.0    | 210     | 35185 | No          |
| 35 | GOM_NL__2PRFIN20081122_042533_000000552074_00062_35186_4139.N1 | 22-NOV-2008 04:25:33 | Dark       | 54.500   | 70      | Zet Pup   | 2.2460   | 39000.    | 109     | 35186 | No          |
| 36 | GOM_NL__2PRFIN20081122_042922_000000682074_00062_35186_4140.N1 | 22-NOV-2008 04:29:22 | Dark       | 67.500   | 117     | Pi Pup    | 2.7060   | 3800.0    | 135     | 35186 | No          |
| 37 | GOM_NL__2PRFIN20081122_043324_000000742074_00062_35186_4141.N1 | 22-NOV-2008 04:33:24 | Dark       | 73.500   | 23      | 21Eps CMa | 1.5020   | 26000.    | 147     | 35186 | No          |
| 38 | GOM_NL__2PRFIN20081122_043543_000000892074_00062_35186_4142.N1 | 22-NOV-2008 04:35:43 | Straylight | 89.000   | 179     | 24Omi2CMa | 3.0320   | 24000.    | 178     | 35186 | No          |
| 39 | GOM_NL__2PRFIN20081122_044039_000000872074_00062_35186_4143.N1 | 22-NOV-2008 04:40:39 | Straylight | 87.000   | 47      | 2Bet CMa  | 1.9760   | 28000.    | 174     | 35186 | No          |
| 40 | GOM_NL__2PRFIN20081122_044527_000000702074_00062_35186_4144.N1 | 22-NOV-2008 04:45:27 | Straylight | 69.500   | 7       | 19Bet Ori | 0.10000  | 14000.    | 139     | 35186 | No          |
| 41 | GOM_NL__2PRFIN20081122_044921_000000832074_00062_35186_4145.N1 | 22-NOV-2008 04:49:21 | Twilight   | 82.500   | 30      | 46Eps Ori | 1.6940   | 30000.    | 165     | 35186 | No          |
| 42 | GOM_NL__2PRFIN20081122_045408_000000562074_00062_35186_4146.N1 | 22-NOV-2008 04:54:08 | Bright     | 56.000   | 13      | 87Alp Tau | 0.86700  | 3800.0    | 112     | 35186 | No          |



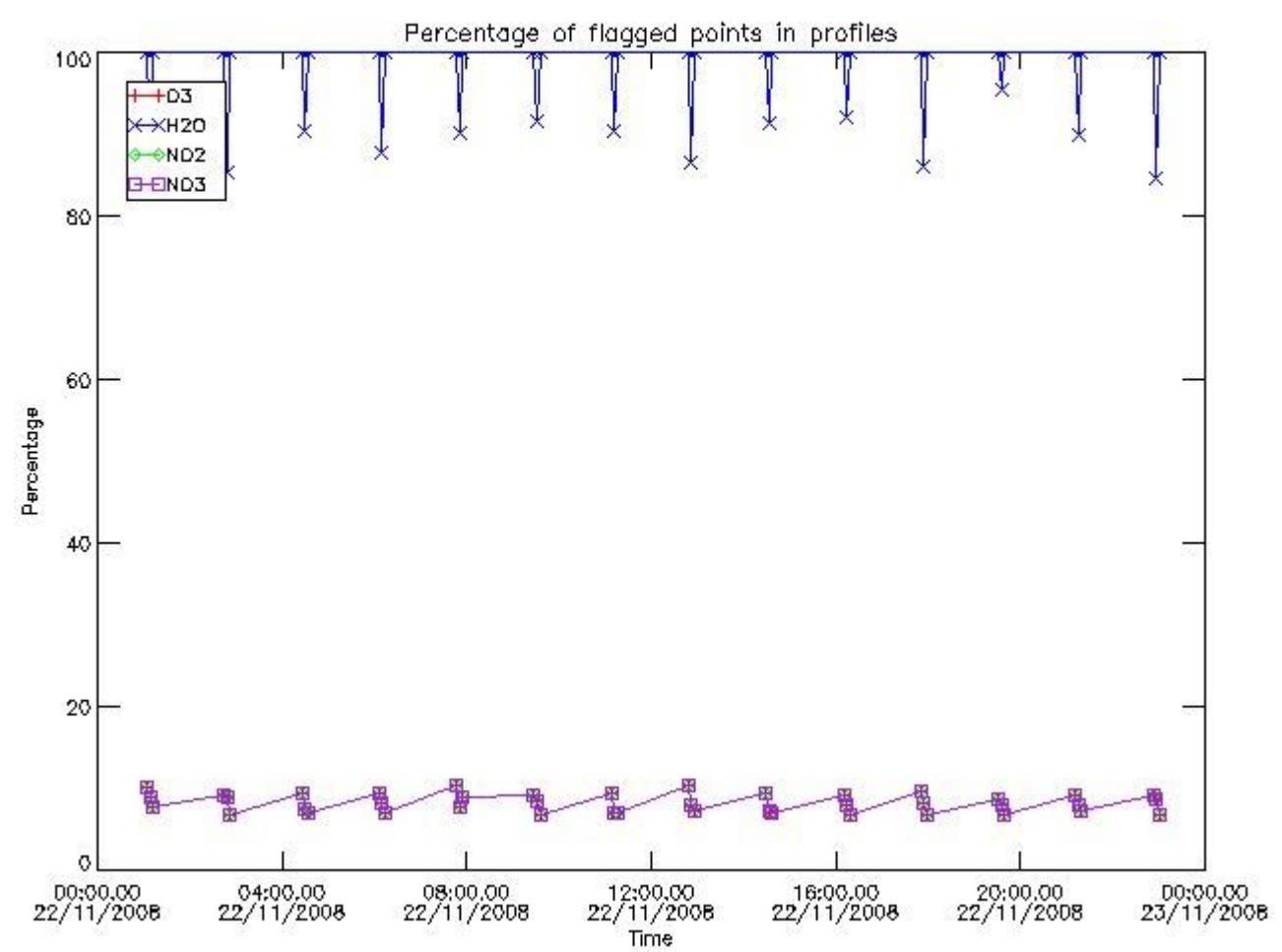


|     |  |                      |                |        |     |           |          |        |     |       |    |
|-----|--|----------------------|----------------|--------|-----|-----------|----------|--------|-----|-------|----|
| 161 | GOM_NL__2PRFIN20081122_193107_00000582074_00071_35195_4321.N1  | 22-NOV-2008 19:31:07 | Dark           | 58.000 | 70  | Zet Pup   | 2.2460   | 39000. | 116 | 35195 | No |
| 162 | GOM_NL__2PRFIN20081122_193455_00000642074_00071_35195_4322.N1  | 22-NOV-2008 19:34:55 | Dark           | 64.000 | 117 | Pi Pup    | 2.7060   | 3800.0 | 128 | 35195 | No |
| 163 | GOM_NL__2PRFIN20081122_193857_00000762074_00071_35195_4323.N1  | 22-NOV-2008 19:38:57 | Dark           | 76.000 | 23  | 21Eps CMa | 1.5020   | 26000. | 152 | 35195 | No |
| 164 | GOM_NL__2PRFIN20081122_194115_00000852074_00071_35195_4324.N1  | 22-NOV-2008 19:41:15 | Straylight     | 85.000 | 179 | 24Omi2CMa | 3.0320   | 24000. | 170 | 35195 | No |
| 165 | GOM_NL__2PRFIN20081122_194637_00000362074_00071_35195_4325.N1  | 22-NOV-2008 19:46:37 | Straylight     | 36.000 | 1   | 9Alp CMa  | -1.4400  | 11000. | 72  | 35195 | No |
| 166 | GOM_NL__2PRFIN20081122_195049_00000652074_00071_35195_4326.N1  | 22-NOV-2008 19:50:49 | Straylight     | 64.500 | 7   | 19Bet Ori | 0.10000  | 14000. | 129 | 35195 | No |
| 167 | GOM_NL__2PRFIN20081122_195438_00000752074_00071_35195_4327.N1  | 22-NOV-2008 19:54:38 | Twilight_stray | 74.500 | 30  | 46Eps Ori | 1.6940   | 30000. | 149 | 35195 | No |
| 168 | GOM_NL__2PRFIN20081122_195926_00000572074_00071_35195_4328.N1  | 22-NOV-2008 19:59:26 | Bright         | 56.500 | 13  | 87Alp Tau | 0.86700  | 3800.0 | 113 | 35195 | No |
| 169 | GOM_NL__2PRFIN20081122_200550_00000512074_00071_35195_4329.N1  | 22-NOV-2008 20:05:50 | Bright         | 51.000 | 114 | 3lot Aur  | 2.6930   | 4600.0 | 102 | 35195 | No |
| 170 | GOM_NL__2PRFIN20081122_201017_00000512074_00071_35195_4330.N1  | 22-NOV-2008 20:10:17 | Bright         | 51.000 | 6   | 13Alp Aur | 0.080000 | 3400.0 | 102 | 35195 | No |
| 171 | GOM_NL__2PRFIN20081122_201242_00000562074_00071_35195_4331.N1  | 22-NOV-2008 20:12:42 | Bright         | 56.000 | 42  | 34Bet Aur | 1.9000   | 10200. | 112 | 35195 | No |
| 172 | GOM_NL__2PRFIN20081122_203133_00000452074_00071_35195_4332.N1  | 22-NOV-2008 20:31:33 | Bright         | 44.500 | 174 | 52Psi UMa | 3.0040   | 4400.0 | 89  | 35195 | No |
| 173 | GOM_NL__2PRFIN20081122_204111_00000562074_00071_35195_4333.N1  | 22-NOV-2008 20:41:11 | Bright         | 55.500 | 96  | 68Del Leo | 2.5600   | 9300.0 | 111 | 35195 | No |
| 174 | GOM_NL__2PRFIN20081122_204413_00000112074_00071_35195_4334.N1  | 22-NOV-2008 20:44:13 | Twilight_stray | 110.50 | 51  | 41Gam1Leo | 2.0100   | 4500.0 | 221 | 35195 | No |
| 175 | GOM_NL__2PRFIN20081122_211144_00000562074_00072_35196_4335.N1  | 22-NOV-2008 21:11:44 | Dark           | 56.000 | 70  | Zet Pup   | 2.2460   | 39000. | 112 | 35196 | No |
| 176 | GOM_NL__2PRFIN20081122_211532_00000642074_00072_35196_4336.N1  | 22-NOV-2008 21:15:32 | Dark           | 64.000 | 117 | Pi Pup    | 2.7060   | 3800.0 | 128 | 35196 | No |
| 177 | GOM_NL__2PRFIN20081122_211933_00000722074_00072_35196_4337.N1  | 22-NOV-2008 21:19:33 | Dark           | 71.500 | 23  | 21Eps CMa | 1.5020   | 26000. | 143 | 35196 | No |
| 178 | GOM_NL__2PRFIN20081122_212151_00000842074_00072_35196_4338.N1  | 22-NOV-2008 21:21:51 | Straylight     | 84.000 | 179 | 24Omi2CMa | 3.0320   | 24000. | 168 | 35196 | No |
| 179 | GOM_NL__2PRFIN20081122_212713_00000412074_00072_35196_4339.N1  | 22-NOV-2008 21:27:13 | Straylight     | 41.000 | 1   | 9Alp CMa  | -1.4400  | 11000. | 82  | 35196 | No |
| 180 | GOM_NL__2PRFIN20081122_213125_00000702074_00072_35196_4340.N1  | 22-NOV-2008 21:31:25 | Straylight     | 69.500 | 7   | 19Bet Ori | 0.10000  | 14000. | 139 | 35196 | No |
| 181 | GOM_NL__2PRFIN20081122_213513_00000762074_00072_35196_4341.N1  | 22-NOV-2008 21:35:13 | Twilight_stray | 76.000 | 30  | 46Eps Ori | 1.6940   | 30000. | 152 | 35196 | No |
| 182 | GOM_NL__2PRFIN20081122_214002_00000572074_00072_35196_4342.N1  | 22-NOV-2008 21:40:02 | Bright         | 56.500 | 13  | 87Alp Tau | 0.86700  | 3800.0 | 113 | 35196 | No |
| 183 | GOM_NL__2PRFIN20081122_214625_00000522074_00072_35196_4343.N1  | 22-NOV-2008 21:46:25 | Bright         | 52.000 | 114 | 3lot Aur  | 2.6930   | 4600.0 | 104 | 35196 | No |
| 184 | GOM_NL__2PRFIN20081122_215052_00000512074_00072_35196_4344.N1  | 22-NOV-2008 21:50:52 | Bright         | 50.500 | 6   | 13Alp Aur | 0.080000 | 3400.0 | 101 | 35196 | No |
| 185 | GOM_NL__2PRFIN20081122_215317_00000572074_00072_35196_4345.N1  | 22-NOV-2008 21:53:17 | Bright         | 56.500 | 42  | 34Bet Aur | 1.9000   | 10200. | 113 | 35196 | No |
| 186 | GOM_NL__2PRFIN20081122_221209_00000472074_00072_35196_4346.N1  | 22-NOV-2008 22:12:09 | Bright         | 47.000 | 174 | 52Psi UMa | 3.0040   | 4400.0 | 94  | 35196 | No |
| 187 | GOM_NL__2PRFIN20081122_222147_00000572074_00072_35196_4347.N1  | 22-NOV-2008 22:21:47 | Bright         | 57.000 | 96  | 68Del Leo | 2.5600   | 9300.0 | 114 | 35196 | No |
| 188 | GOM_NL__2PRFIN20081122_222451_000001122074_00072_35196_4348.N1 | 22-NOV-2008 22:24:51 | Twilight_stray | 111.50 | 51  | 41Gam1Leo | 2.0100   | 4500.0 | 223 | 35196 | No |
| 189 | GOM_NL__2PRFIN20081122_225221_00000562074_00073_35197_4368.N1  | 22-NOV-2008 22:52:21 | Dark           | 55.500 | 70  | Zet Pup   | 2.2460   | 39000. | 111 | 35197 | No |
| 190 | GOM_NL__2PRFIN20081122_225609_00000592074_00073_35197_4369.N1  | 22-NOV-2008 22:56:09 | Dark           | 59.000 | 117 | Pi Pup    | 2.7060   | 3800.0 | 118 | 35197 | No |
| 191 | GOM_NL__2PRFIN20081122_230010_00000752074_00073_35197_4370.N1  | 22-NOV-2008 23:00:10 | Dark           | 75.000 | 23  | 21Eps CMa | 1.5020   | 26000. | 150 | 35197 | No |
| 192 | GOM_NL__2PRFIN20081122_230228_00000862074_00073_35197_4371.N1  | 22-NOV-2008 23:02:28 | Straylight     | 85.500 | 179 | 24Omi2CMa | 3.0320   | 24000. | 171 | 35197 | No |
| 193 | GOM_NL__2PRFIN20081122_230749_00000412074_00073_35197_4372.N1  | 22-NOV-2008 23:07:49 | Straylight     | 41.000 | 1   | 9Alp CMa  | -1.4400  | 11000. | 82  | 35197 | No |
| 194 | GOM_NL__2PRFIN20081122_231201_00000692074_00073_35197_4373.N1  | 22-NOV-2008 23:12:01 | Straylight     | 69.000 | 7   | 19Bet Ori | 0.10000  | 14000. | 138 | 35197 | No |
| 195 | GOM_NL__2PRFIN20081122_231548_00000802074_00073_35197_4374.N1  | 22-NOV-2008 23:15:48 | Twilight_stray | 80.000 | 30  | 46Eps Ori | 1.6940   | 30000. | 160 | 35197 | No |
| 196 | GOM_NL__2PRFIN20081122_232037_00000562074_00073_35197_4375.N1  | 22-NOV-2008 23:20:37 | Bright         | 55.500 | 13  | 87Alp Tau | 0.86700  | 3800.0 | 111 | 35197 | No |
| 197 | GOM_NL__2PRFIN20081122_232700_00000522074_00073_35197_4376.N1  | 22-NOV-2008 23:27:00 | Bright         | 51.500 | 114 | 3lot Aur  | 2.6930   | 4600.0 | 103 | 35197 | No |
| 198 | GOM_NL__2PRFIN20081122_233126_00000502074_00073_35197_4377.N1  | 22-NOV-2008 23:31:26 | Bright         | 50.000 | 6   | 13Alp Aur | 0.080000 | 3400.0 | 100 | 35197 | No |
| 199 | GOM_NL__2PRFIN20081122_233352_00000562074_00073_35197_4378.N1  | 22-NOV-2008 23:33:52 | Bright         | 56.000 | 42  | 34Bet Aur | 1.9000   | 10200. | 112 | 35197 | No |
| 200 | GOM_NL__2PRFIN20081122_235244_00000482074_00073_35197_4379.N1  | 22-NOV-2008 23:52:44 | Bright         | 47.500 | 174 | 52Psi UMa | 3.0040   | 4400.0 | 95  | 35197 | No |

### 3. Quality information per product

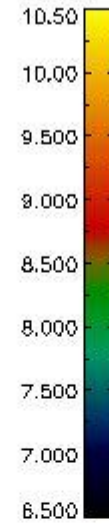
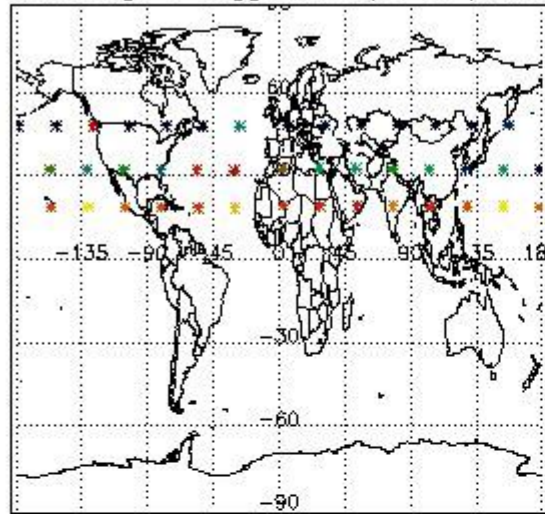
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

#### 3.1 Plot quality information per product (time dependant)

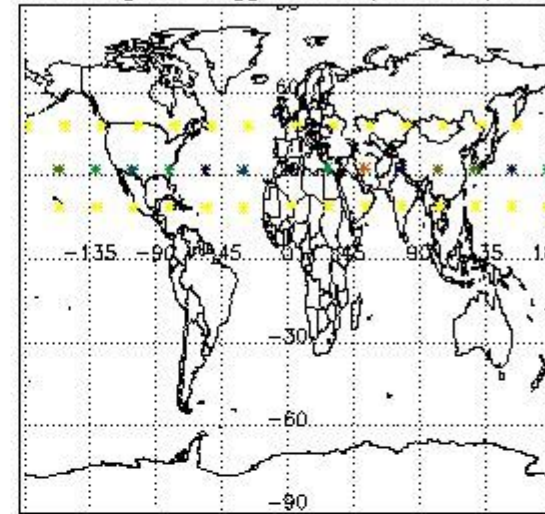


3.2 Plot quality information per product (world map)

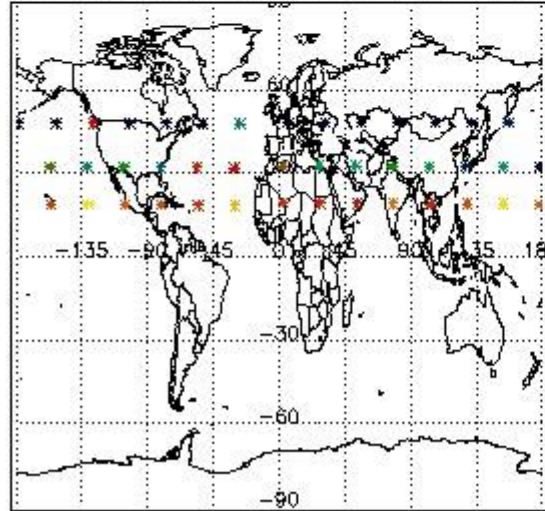
Percentage of flagged data per O3 profile



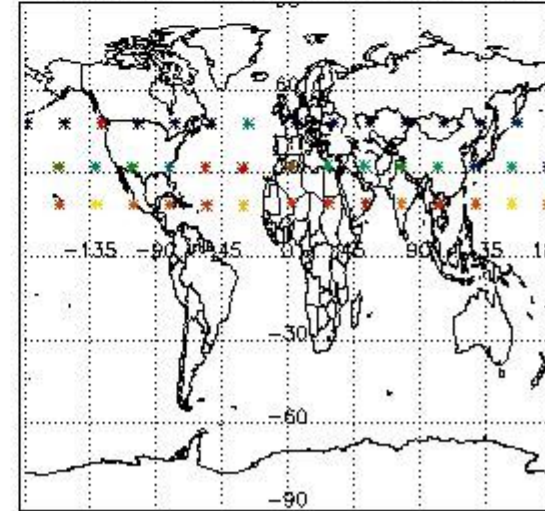
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

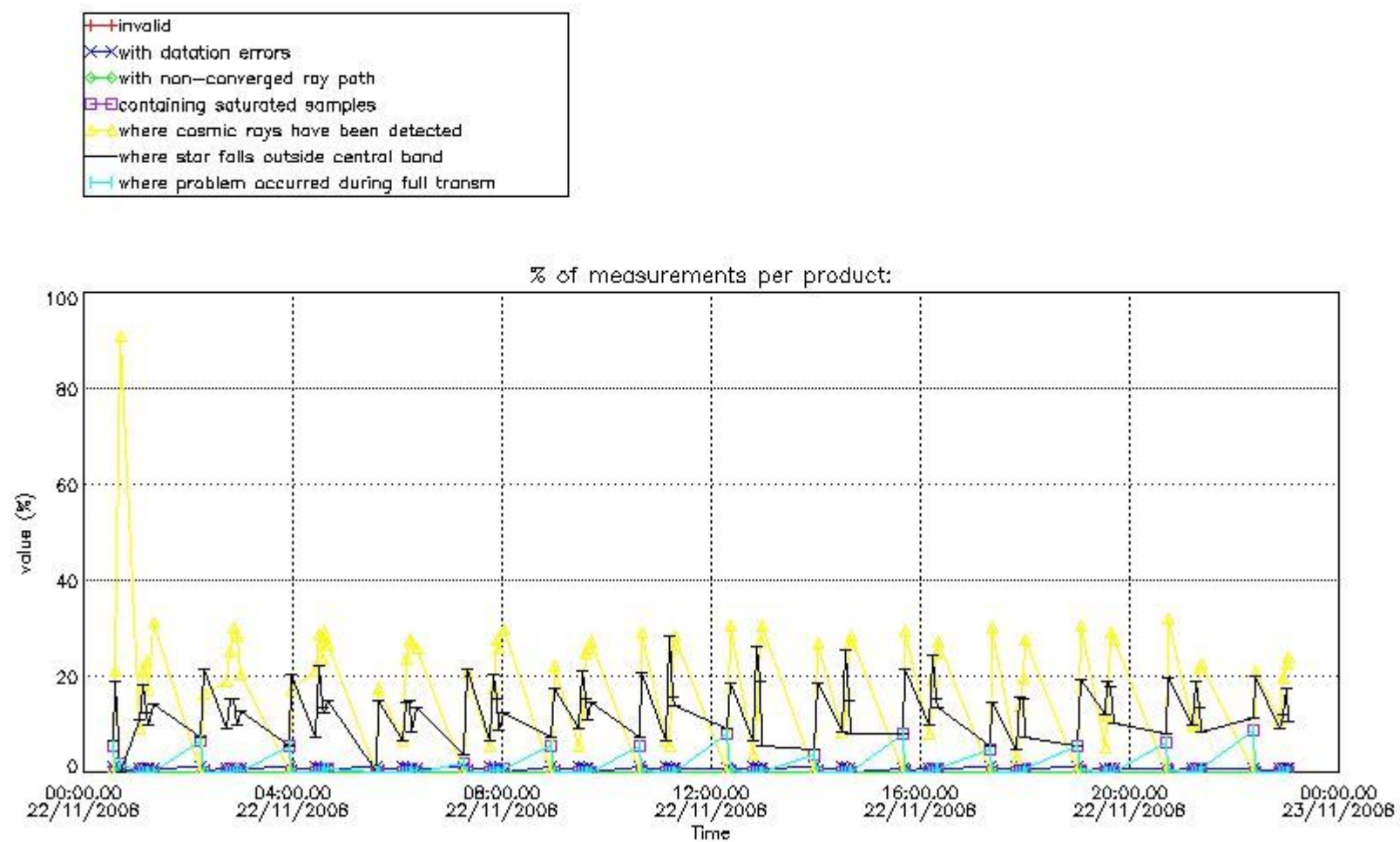


#### 4. Level 1 quality information per product

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.

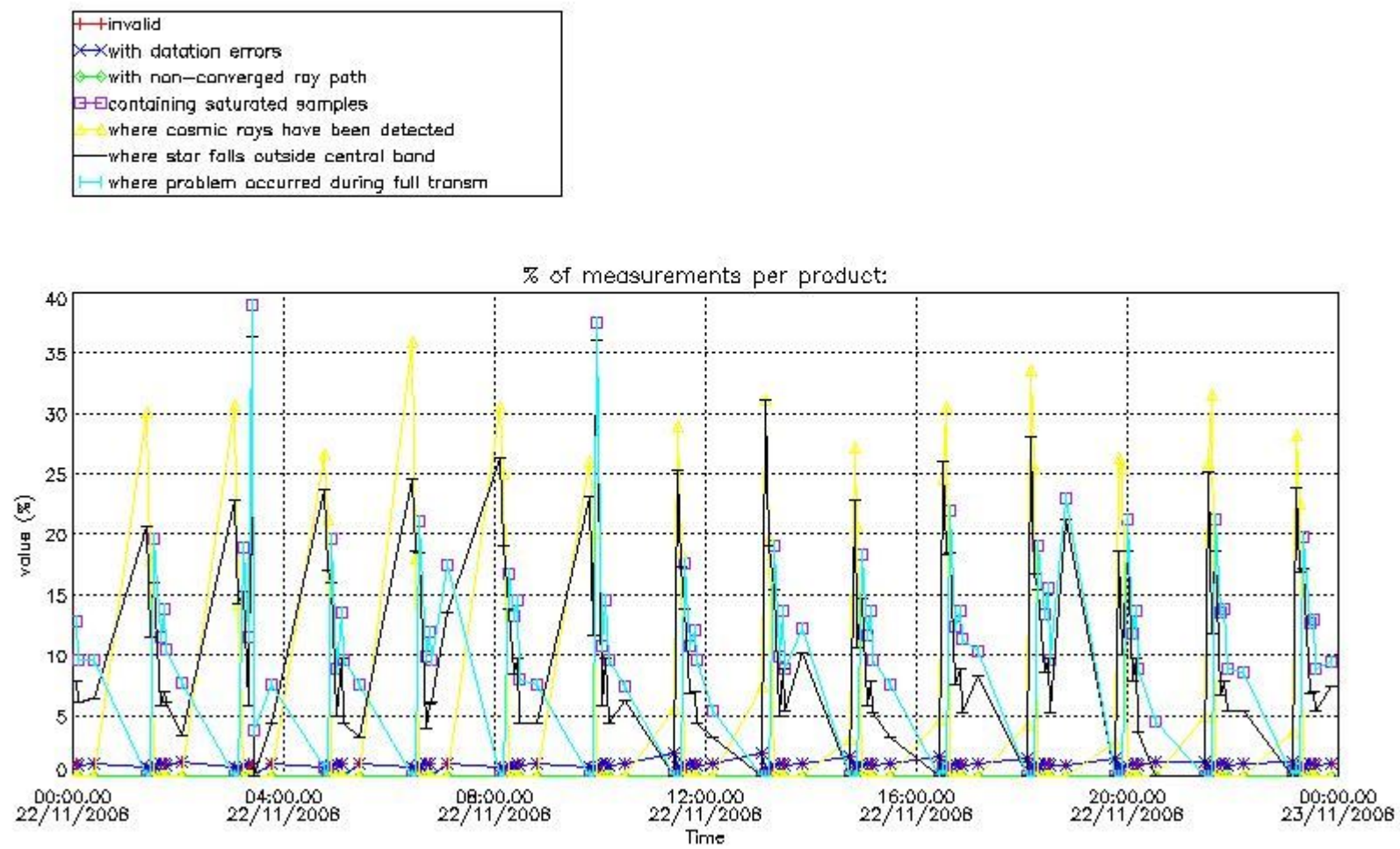
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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



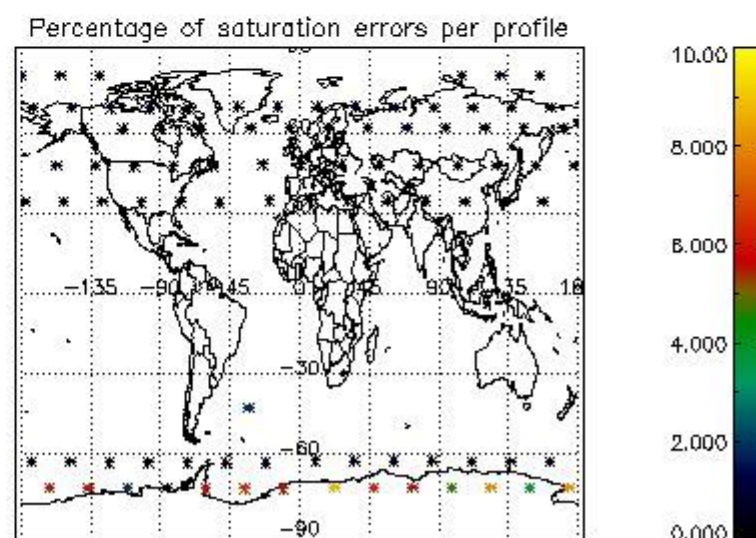
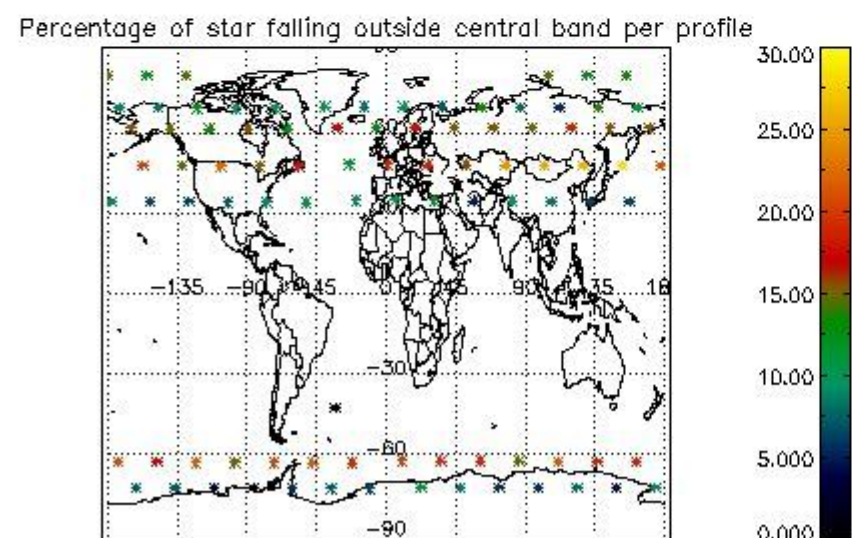
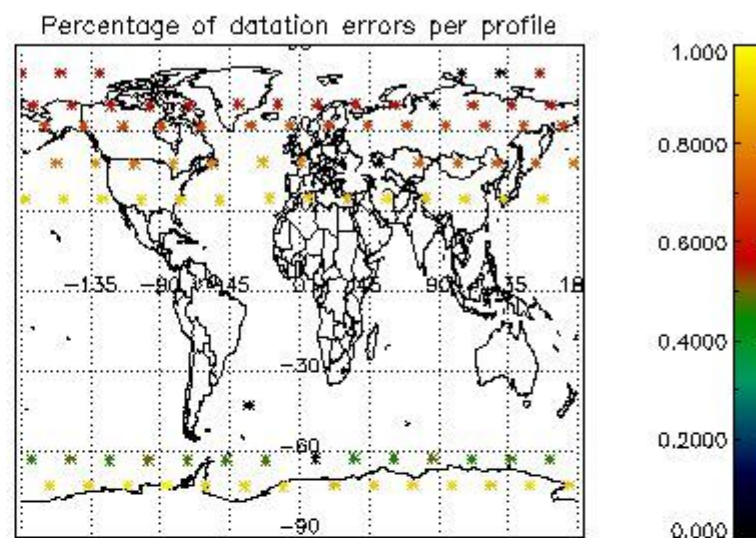
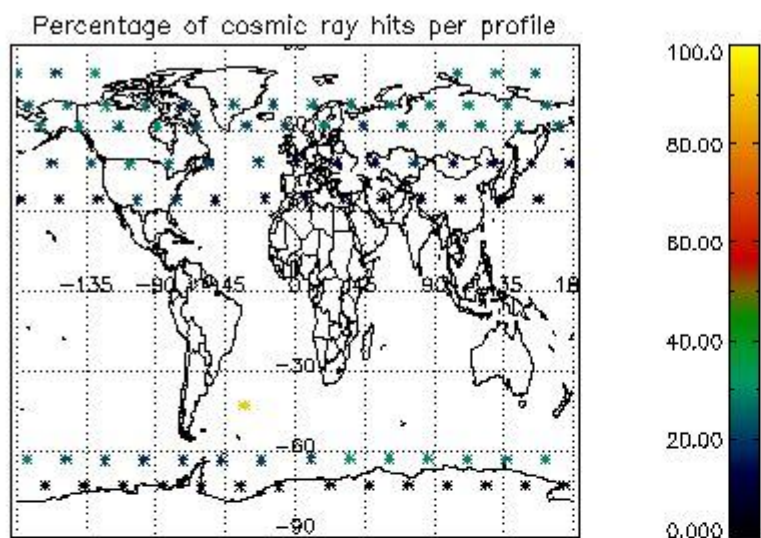
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



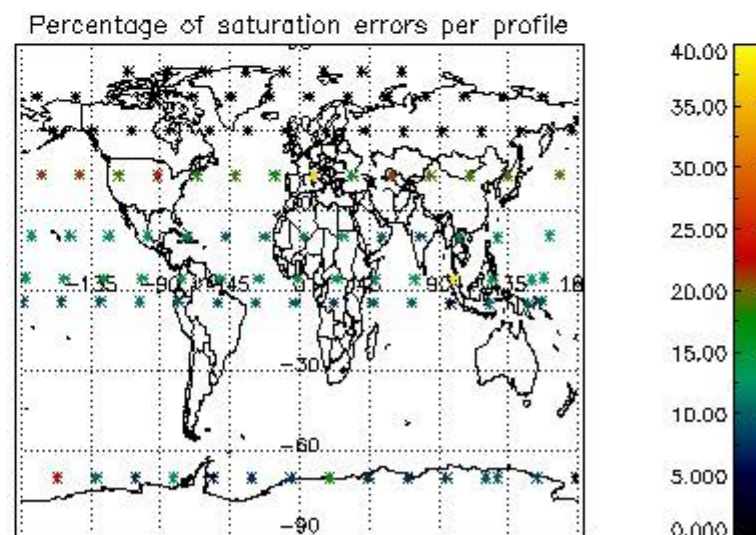
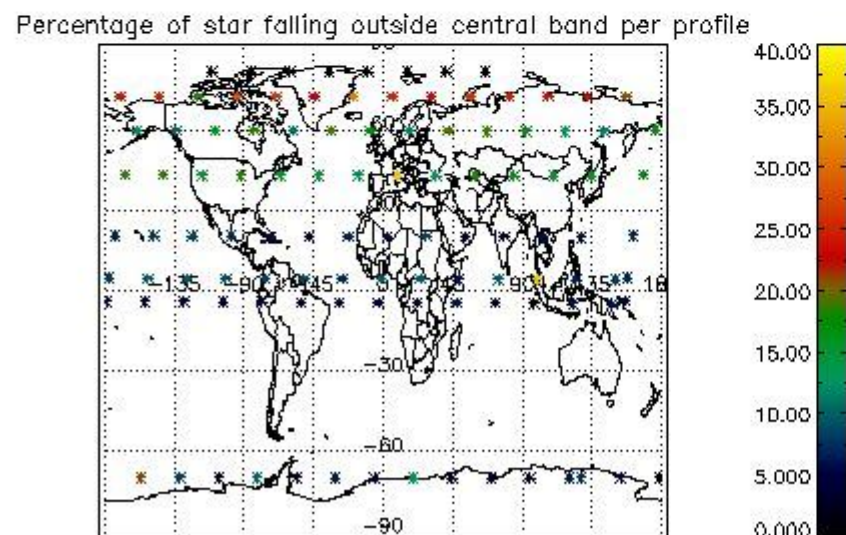
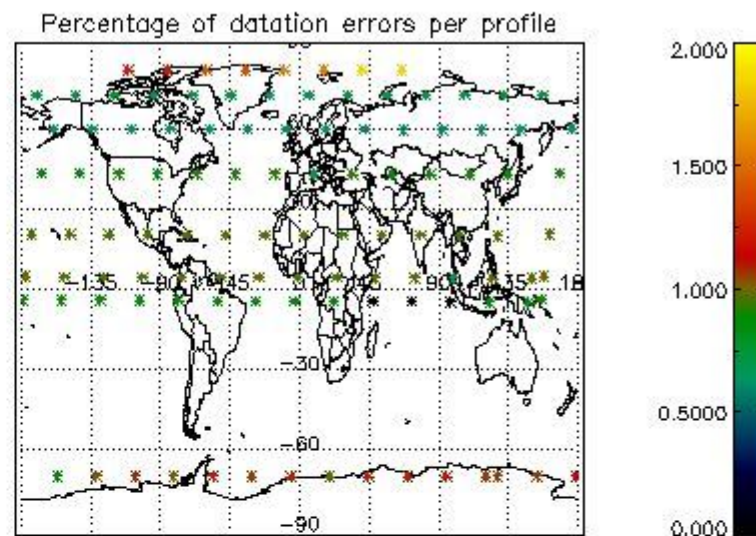
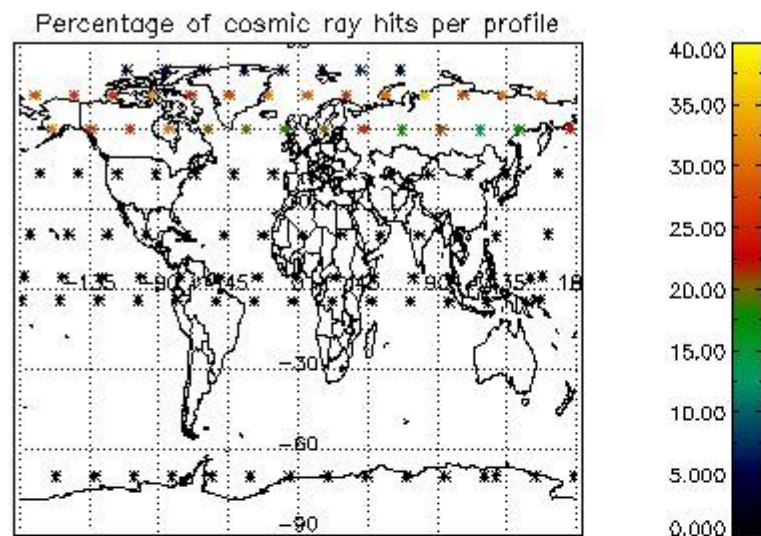


#### 4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

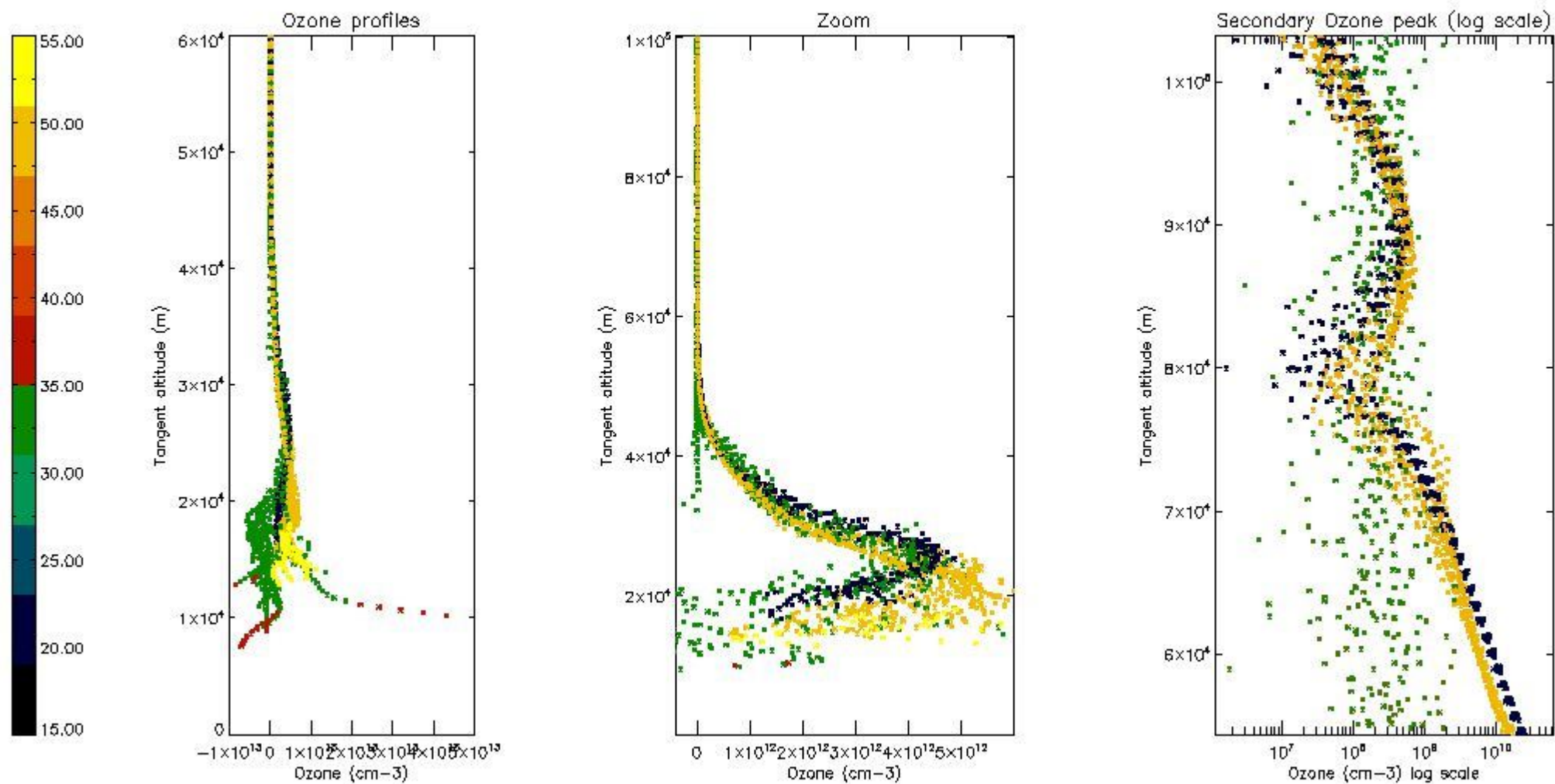
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

| Criteria | % of total production |
|----------|-----------------------|
| All STD  | 21                    |
| STD < 20 | 12                    |

|          |    |
|----------|----|
| STD < 10 | 10 |
| STD < 5  | 8  |

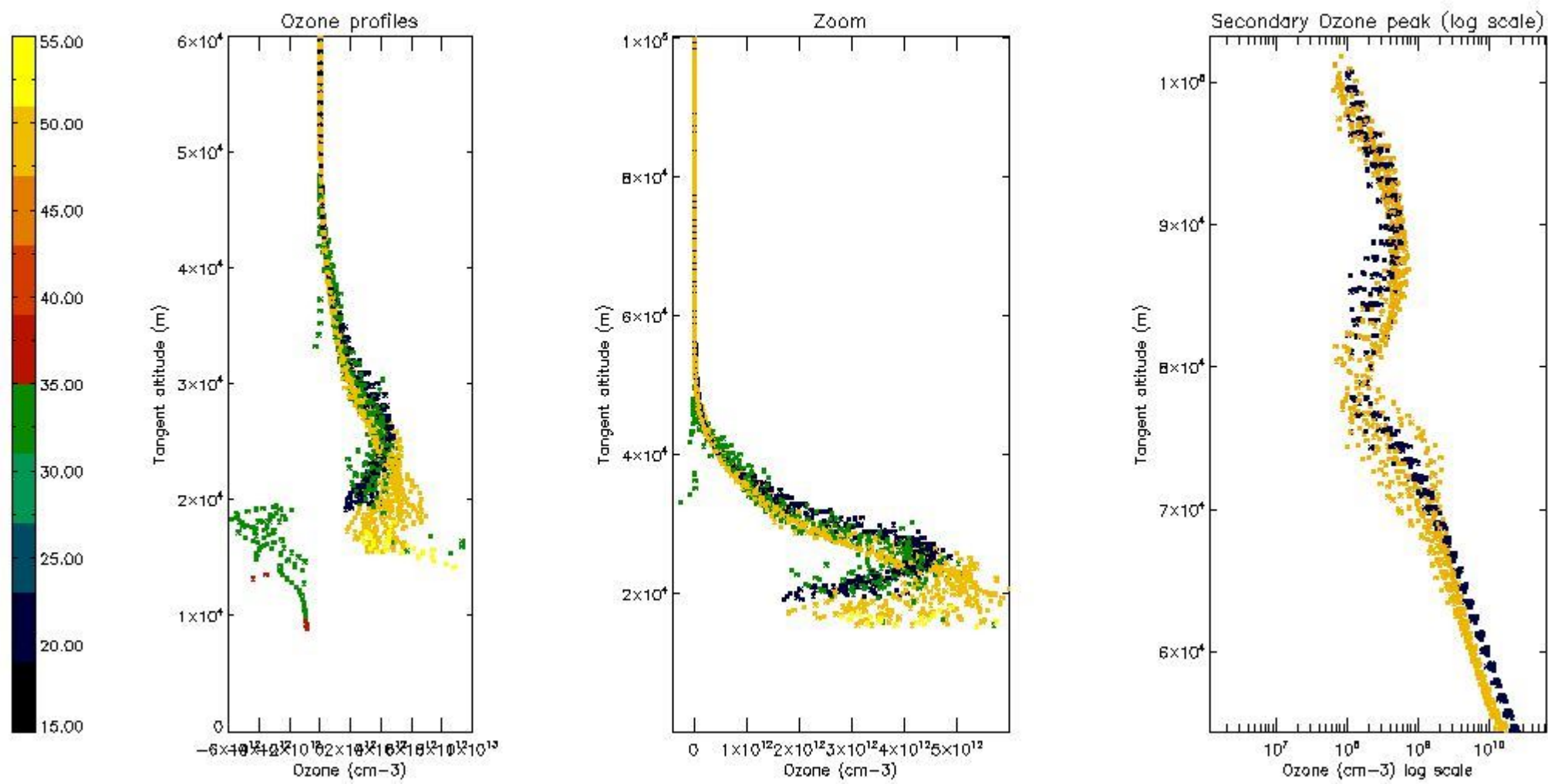
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



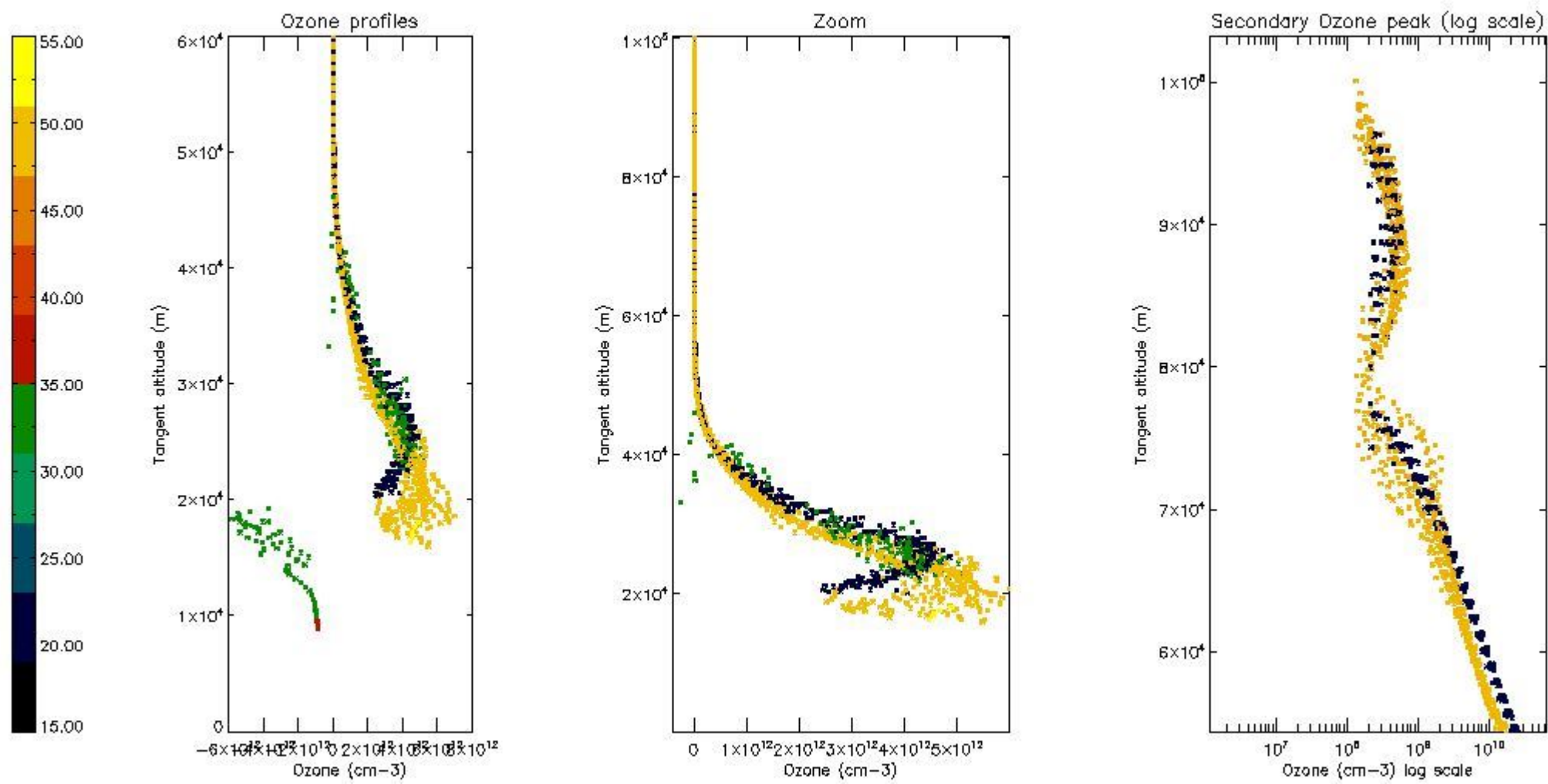
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



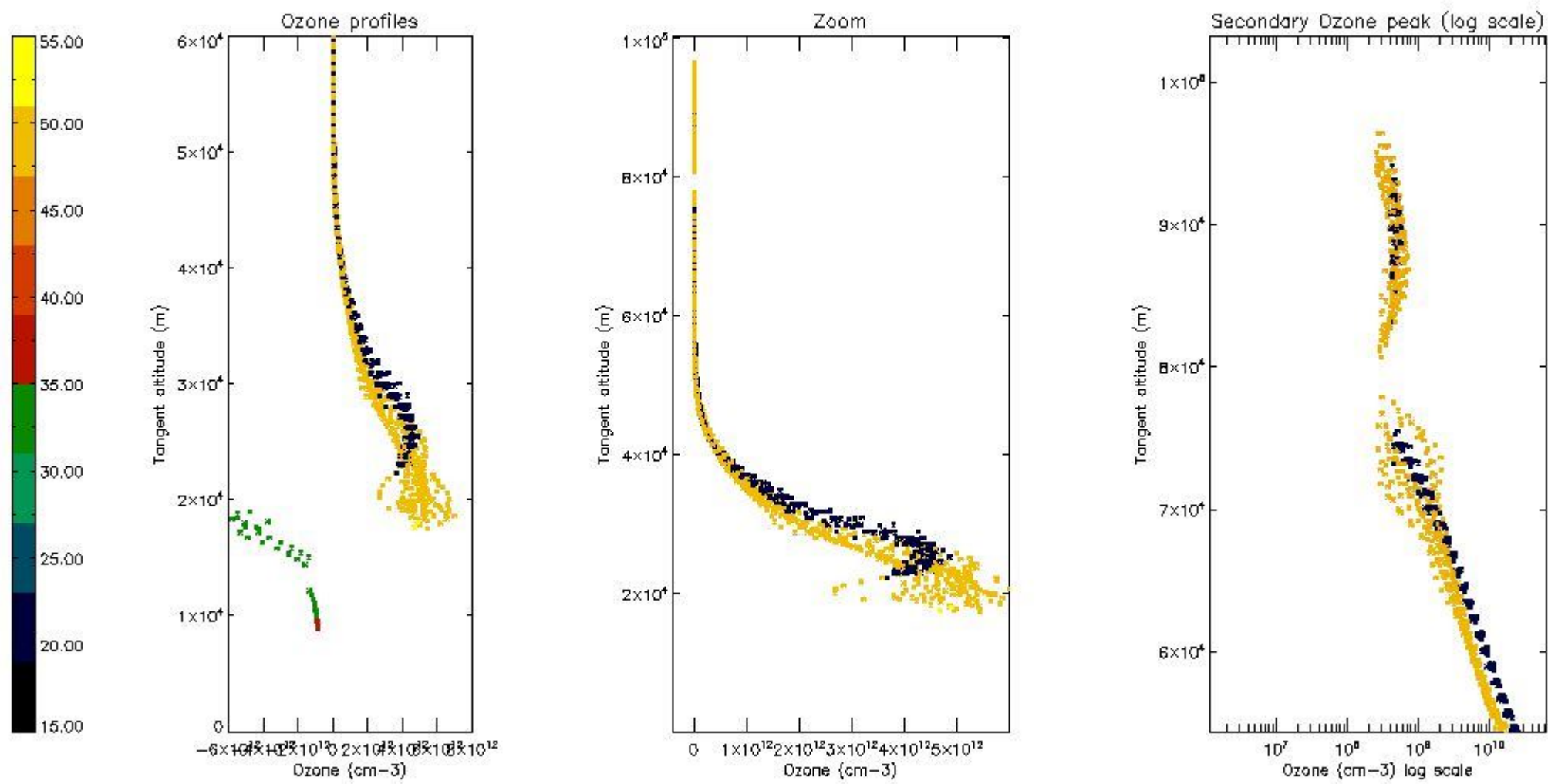
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



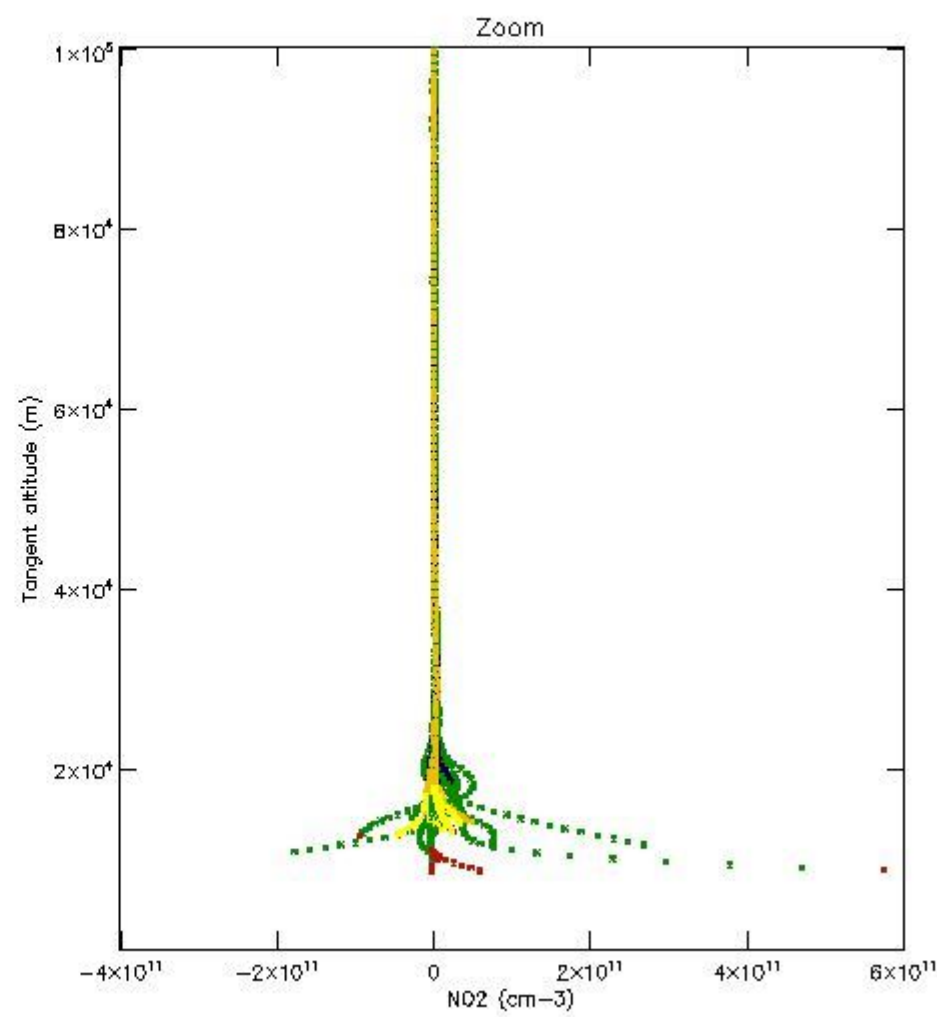
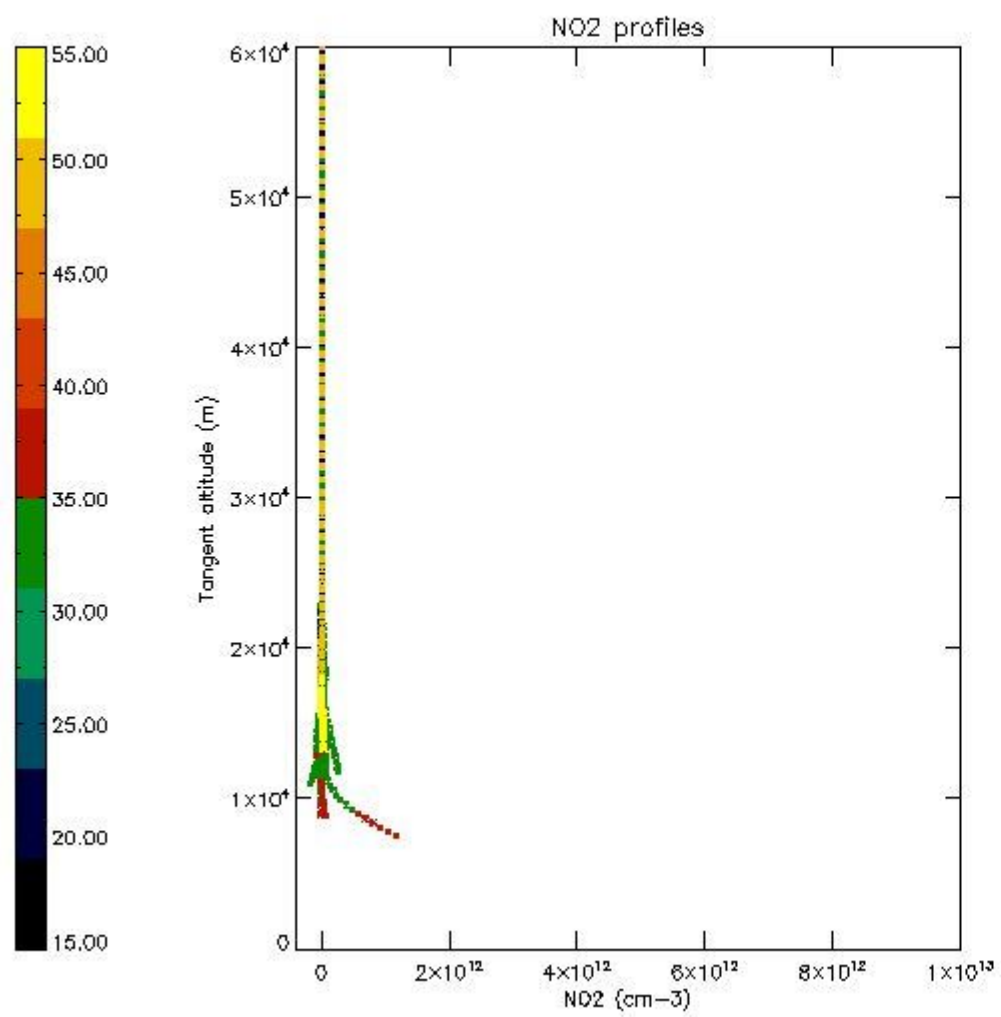
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

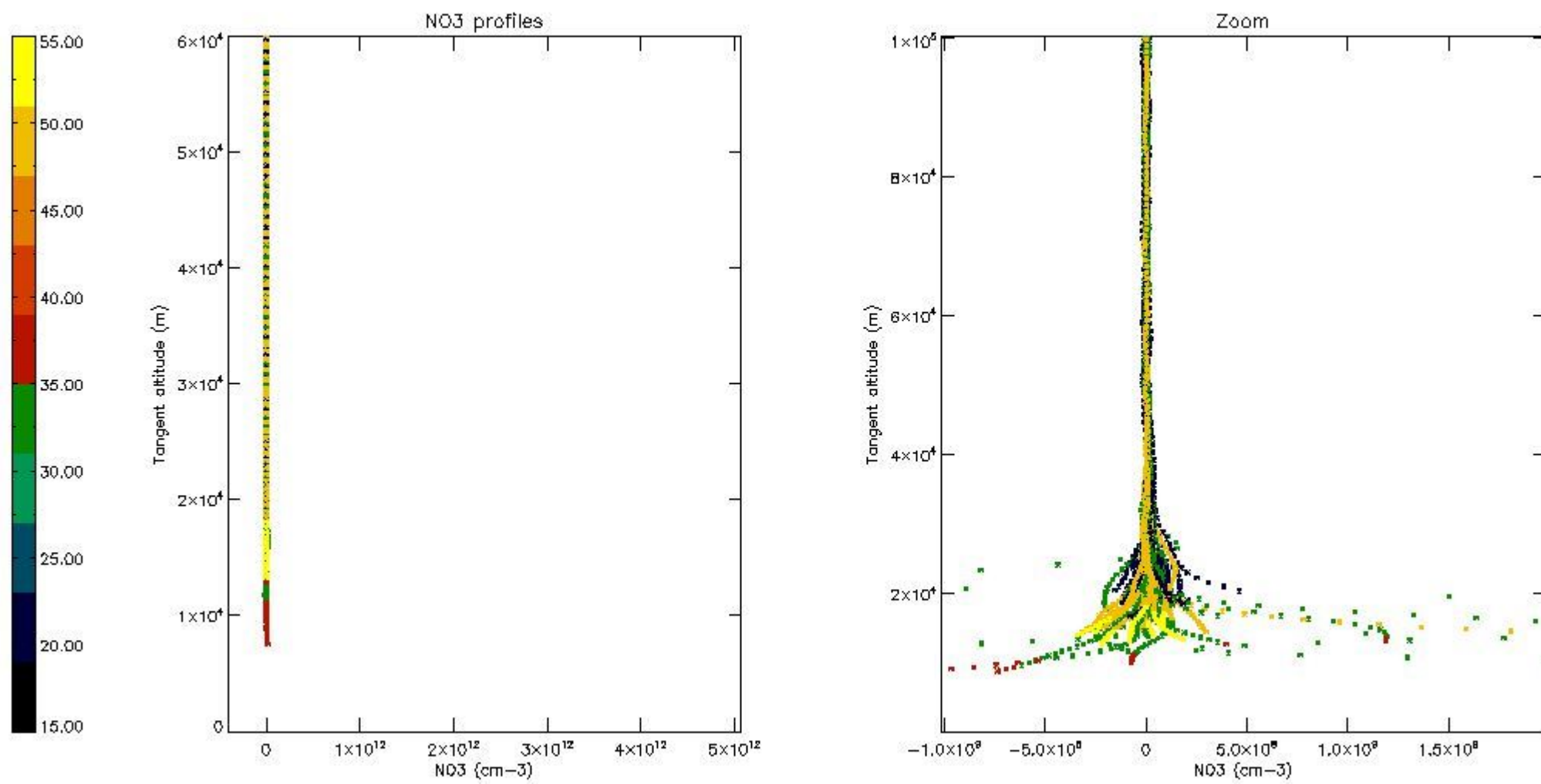
The colorbar represents the latitude.



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

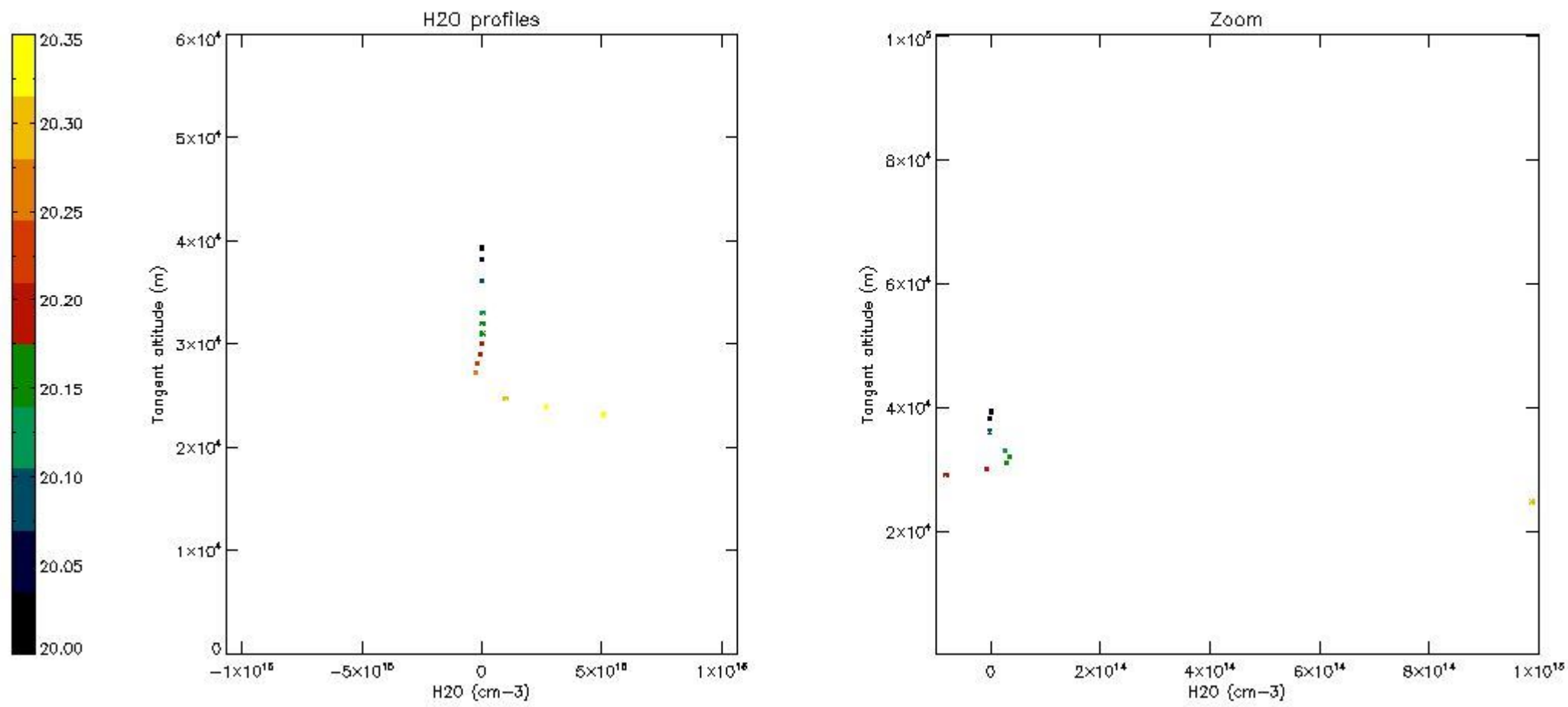
The colorbar represents the latitude.





*5.8 Plot H2O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 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                  | 22-NOV-2008 00:03:15    |
| LEVEL-2_PROC_CONFIG       | GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000 | 1                  | 22-NOV-2008 00:03:15    |
| CROSS_SECTIONS_FILE       | GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000 | 1                  | 22-NOV-2008 00:03:15    |

# GOMOS Level 2 Daily Report

## SUMMARY

### [1. General Info](#)

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#### [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 \(time dependant\)](#)

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

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

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

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

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#### [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](#)

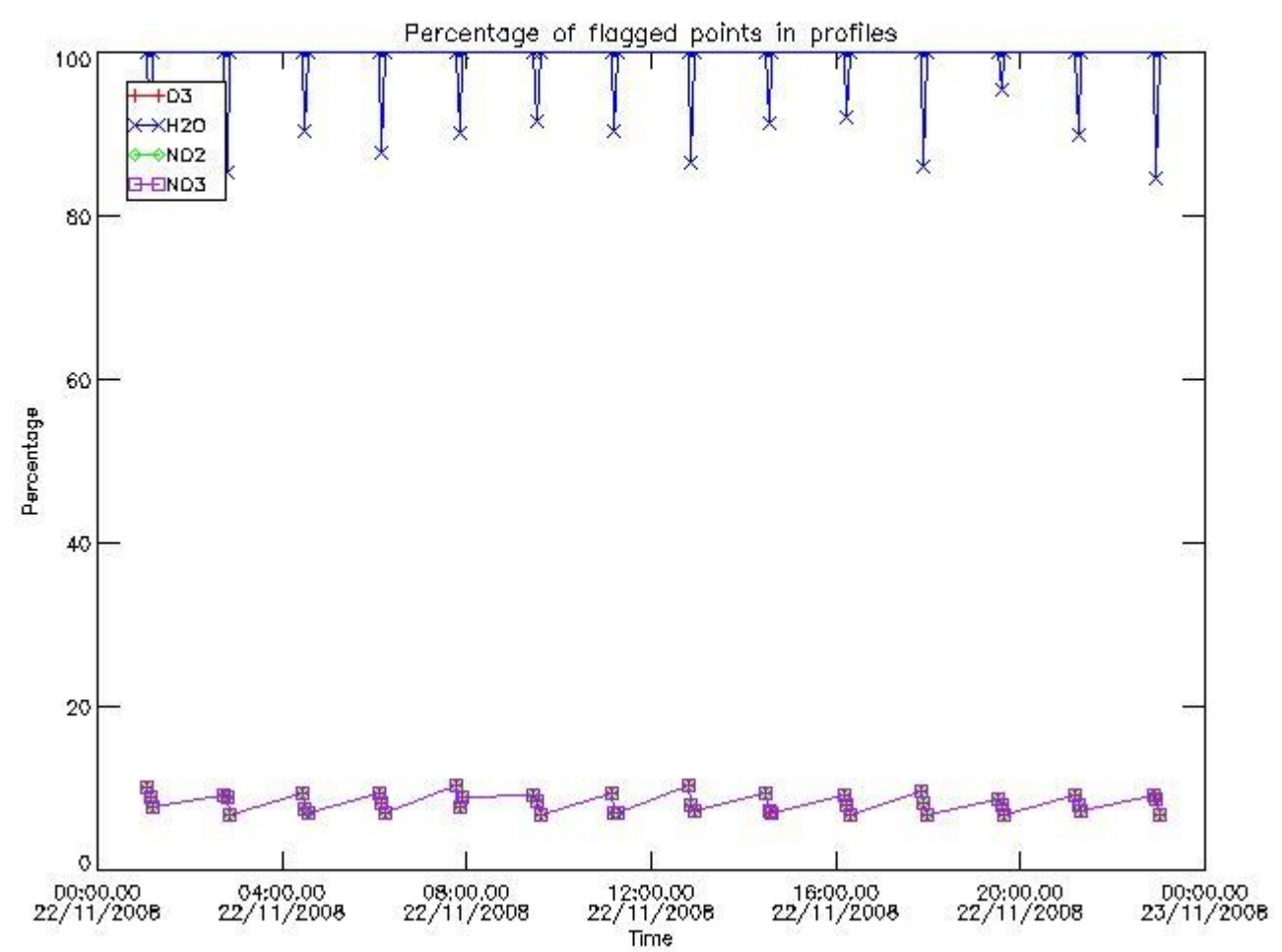
### [6. Auxiliary Data Files used for the production reported in section 2](#)







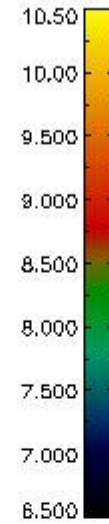
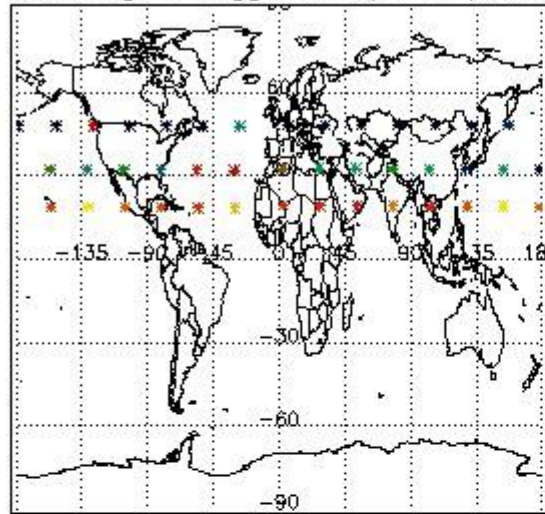




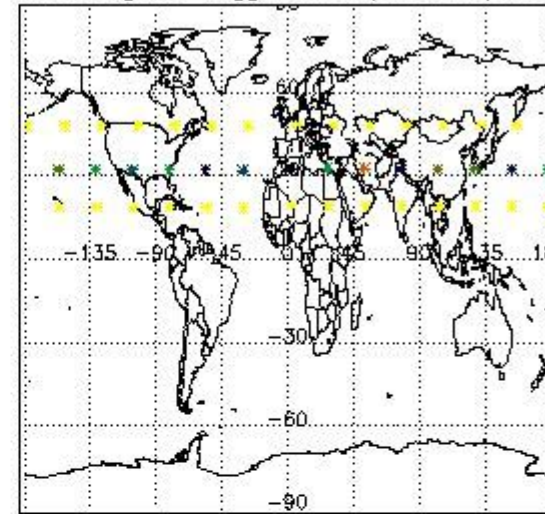
3.2 Plot quality information per product (world map)



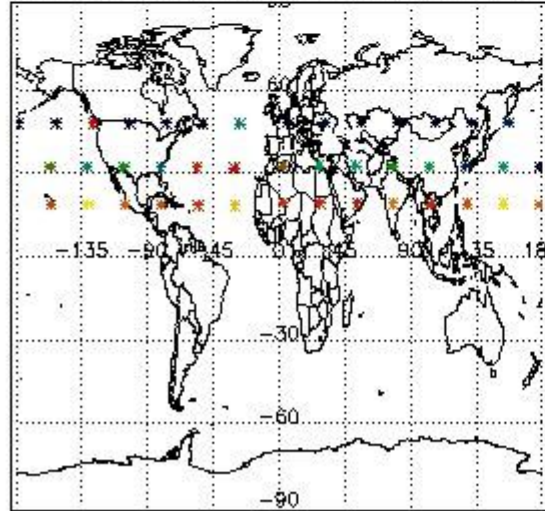
Percentage of flagged data per O3 profile



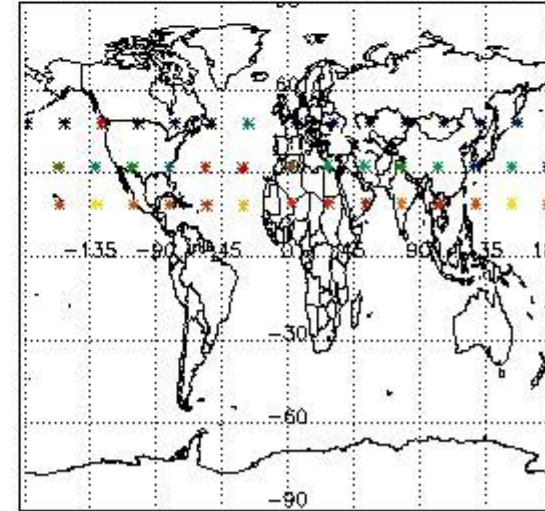
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

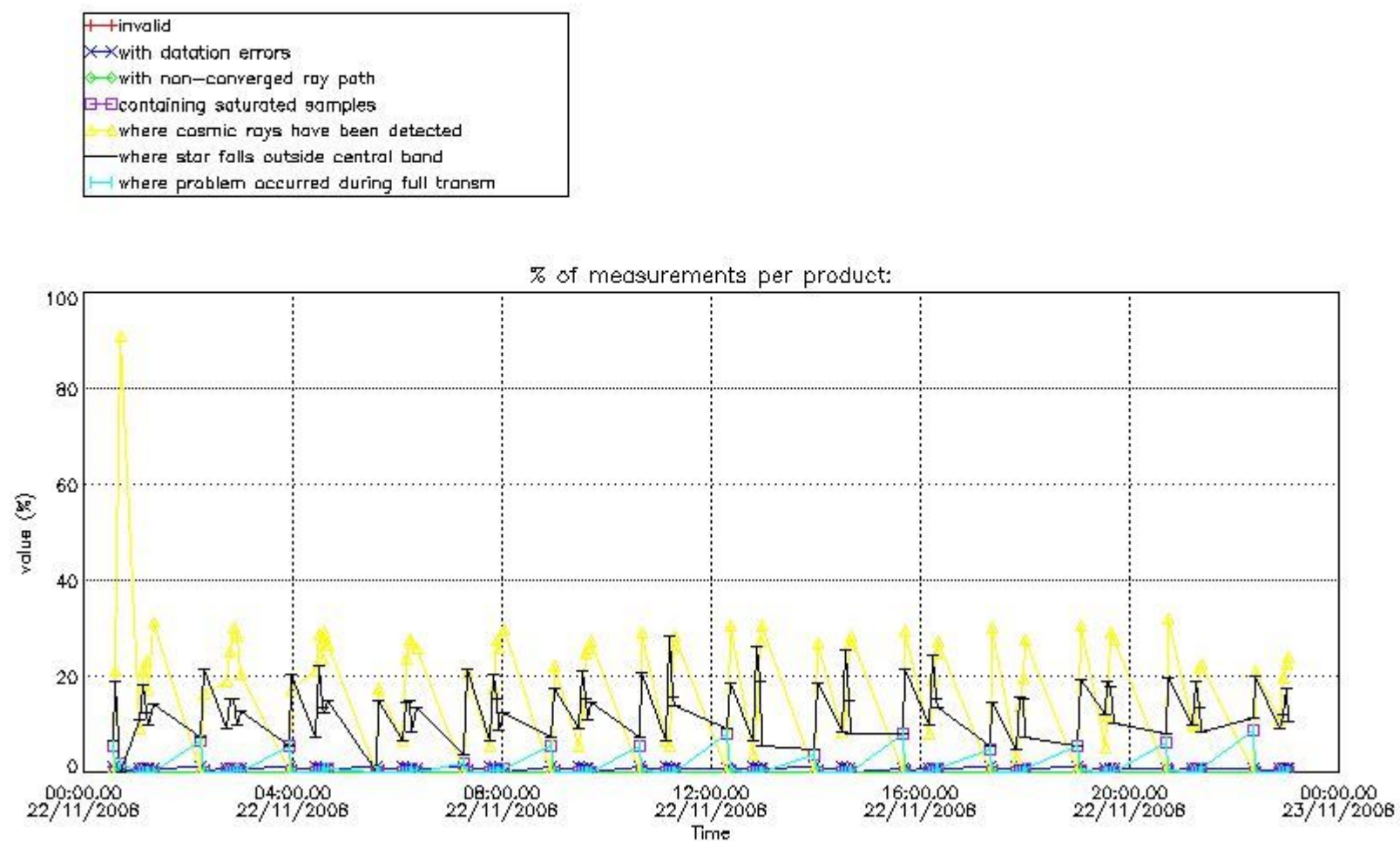


#### 4. Level 1 quality information per product

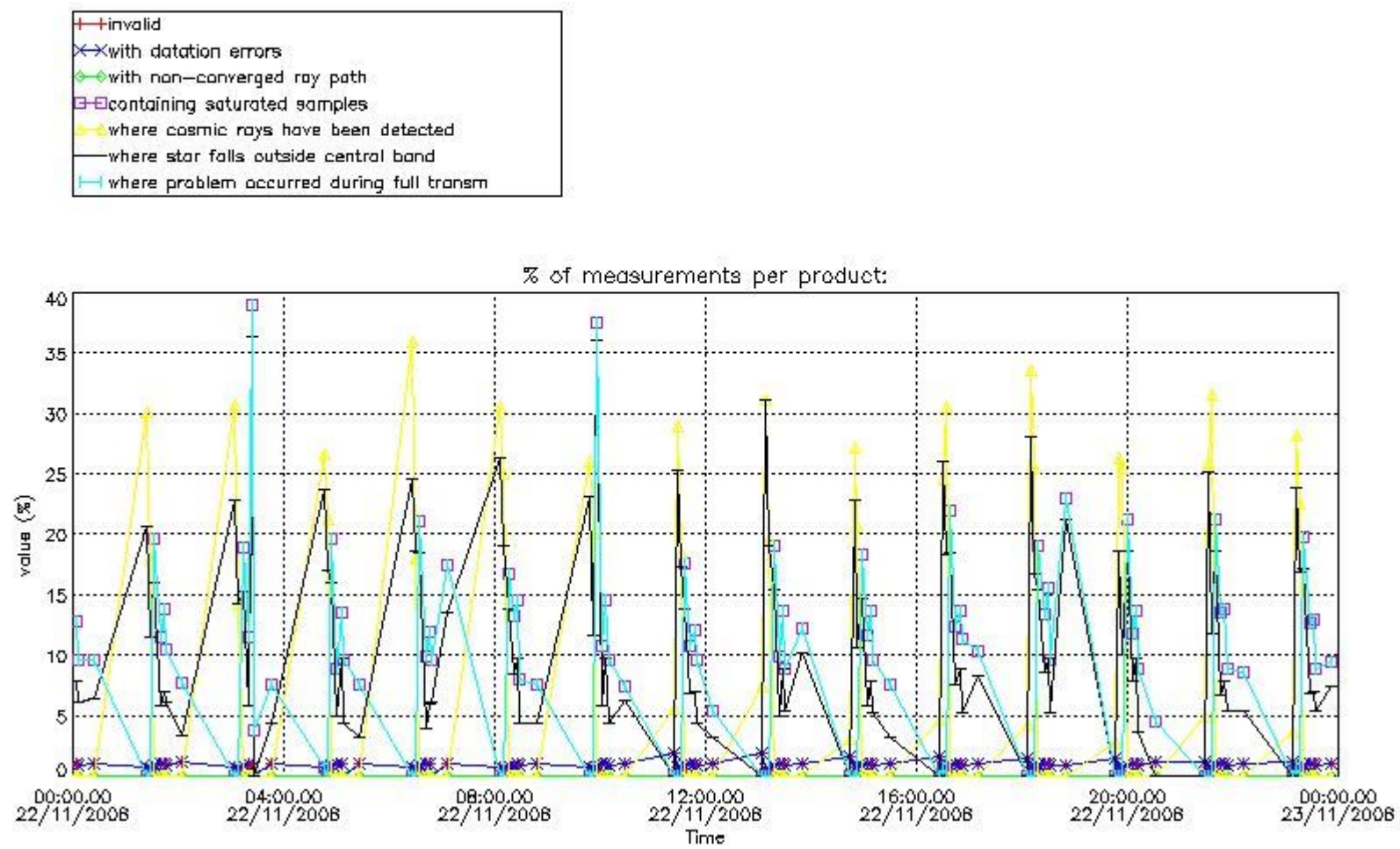
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

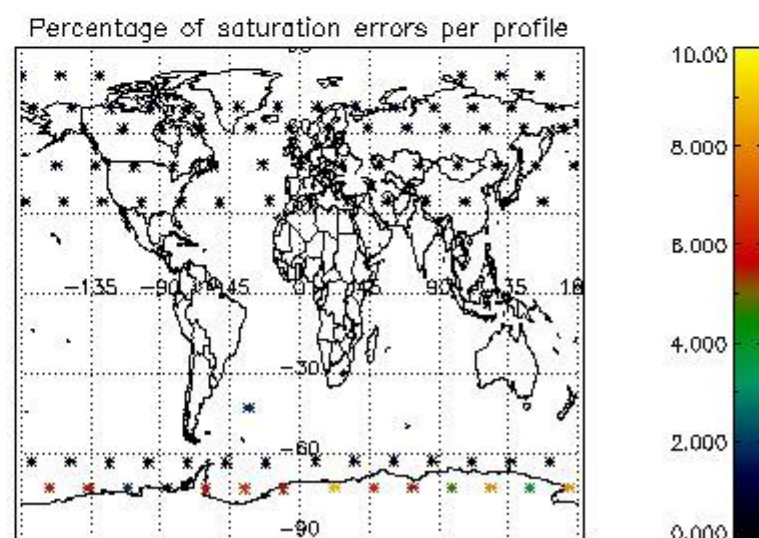
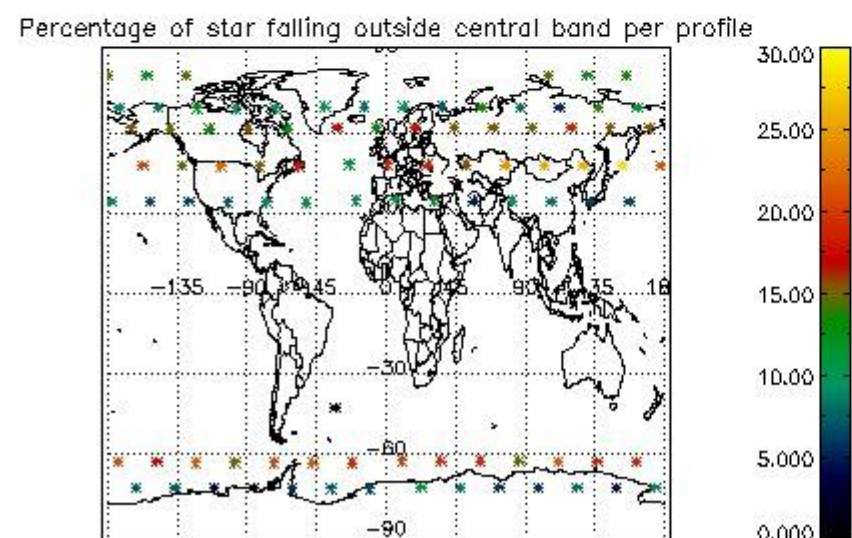
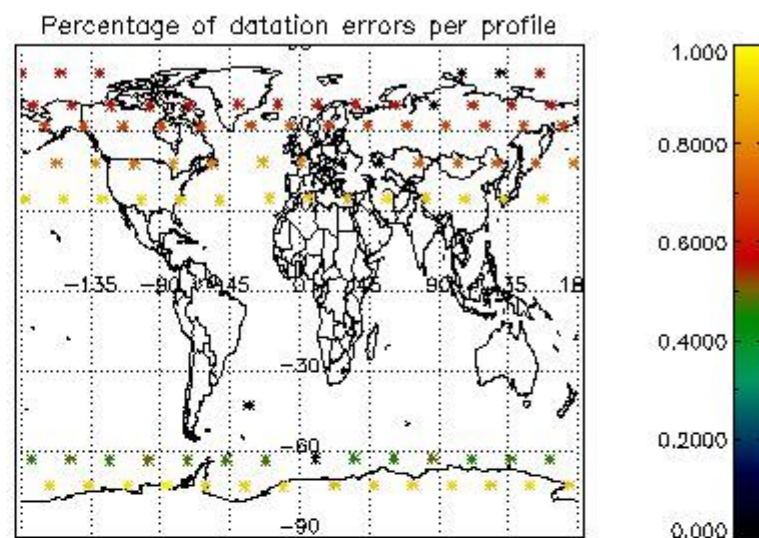
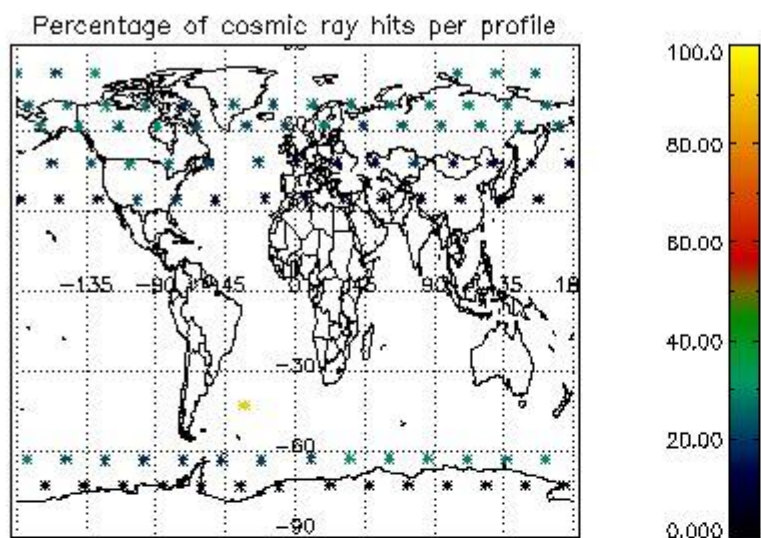


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

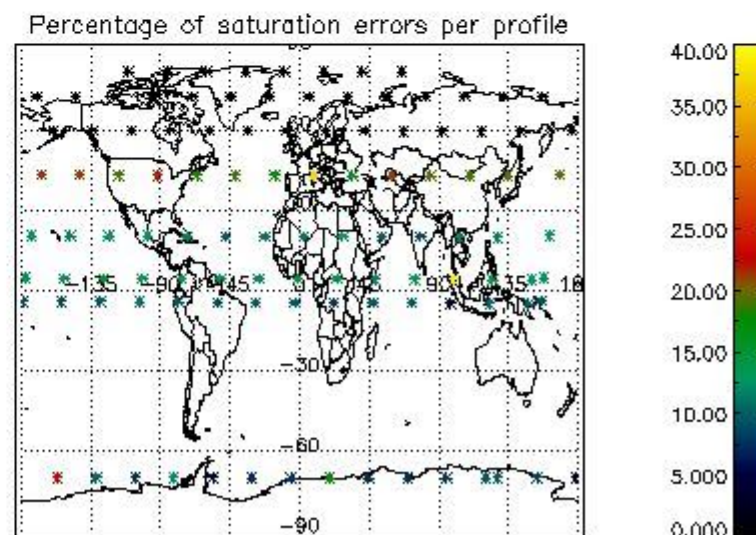
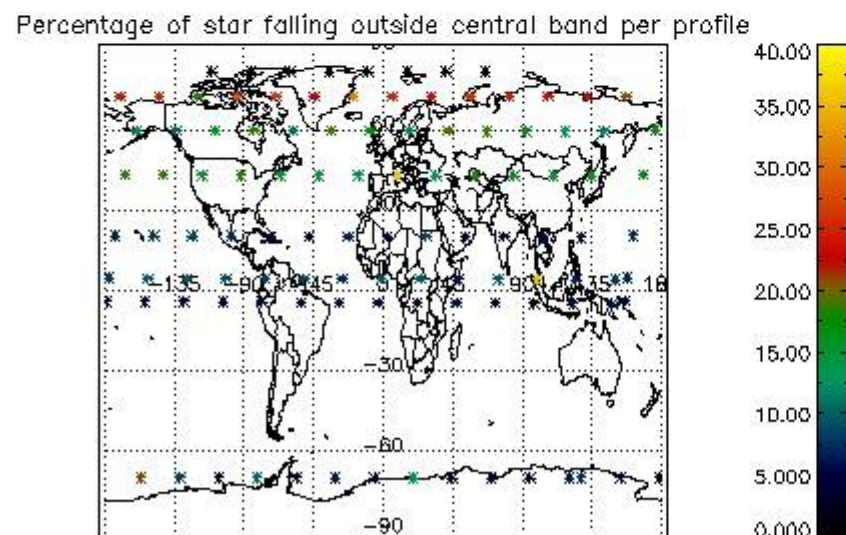
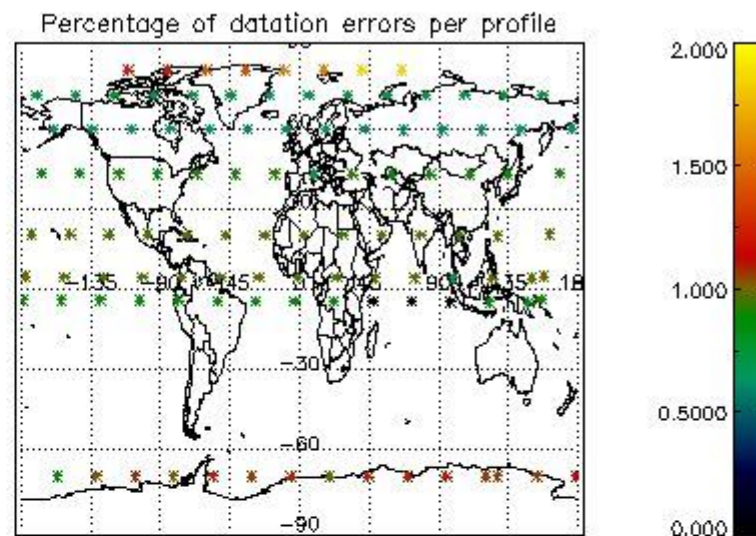
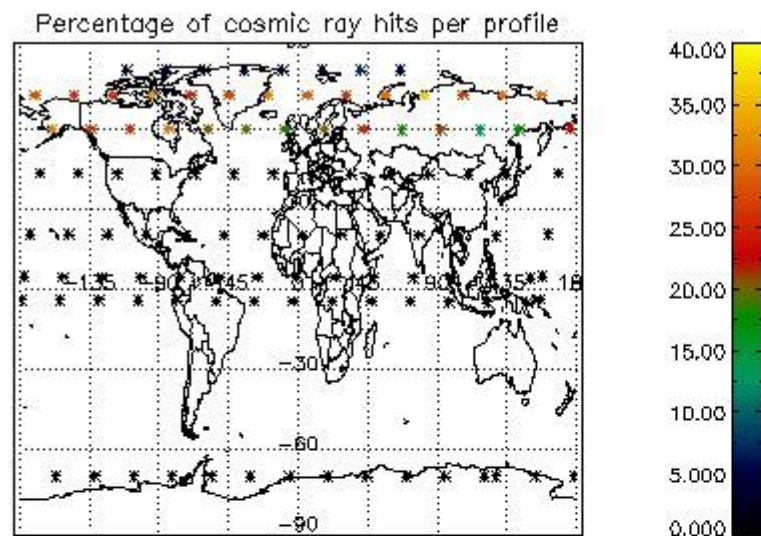


*4.2 Plot quality information per product coming from level 1b processing (world map)*

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



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

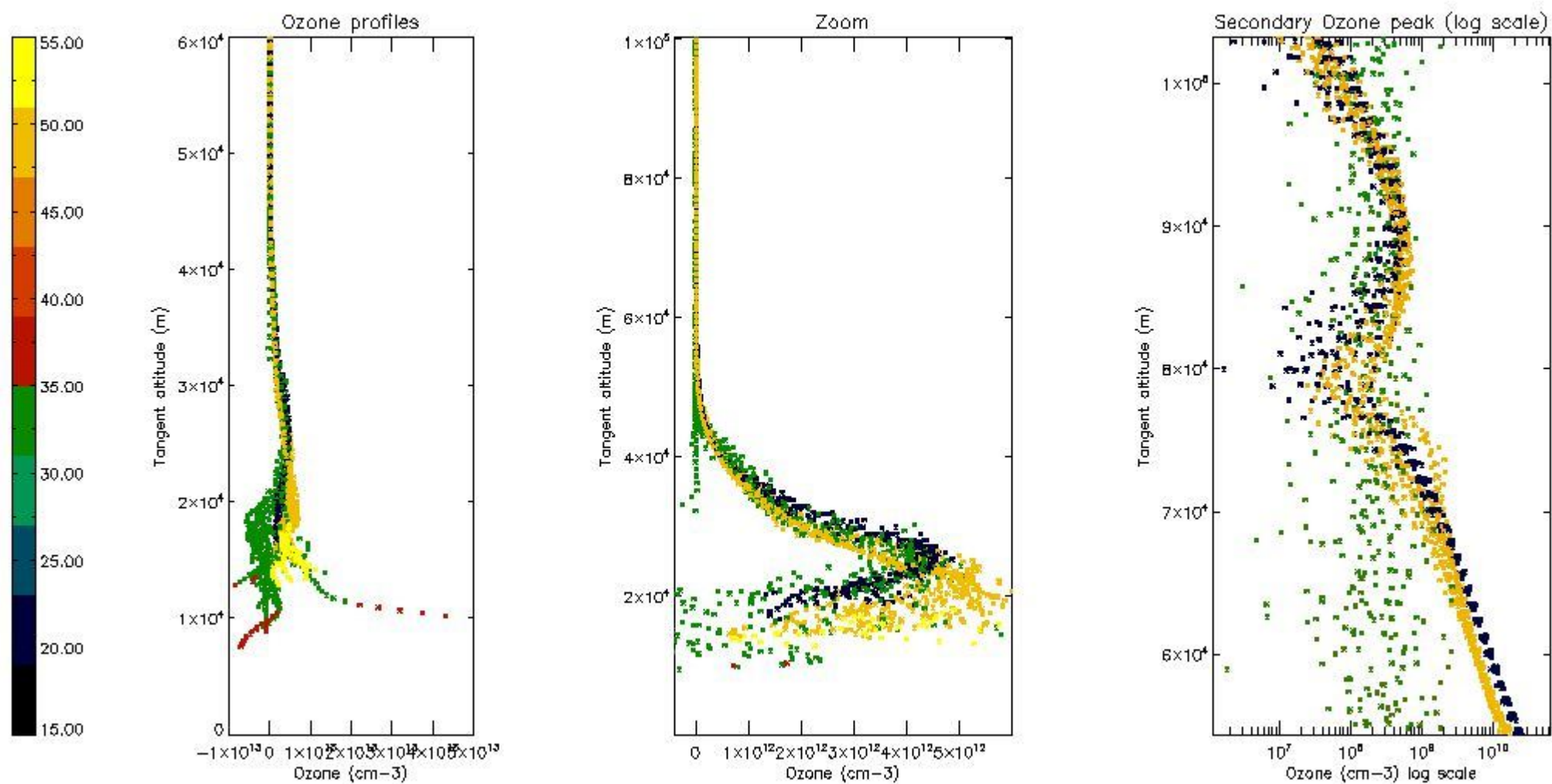
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

| Criteria | % of total production |
|----------|-----------------------|
| All STD  | 21                    |
| STD < 20 | 12                    |

|          |    |
|----------|----|
| STD < 10 | 10 |
| STD < 5  | 8  |

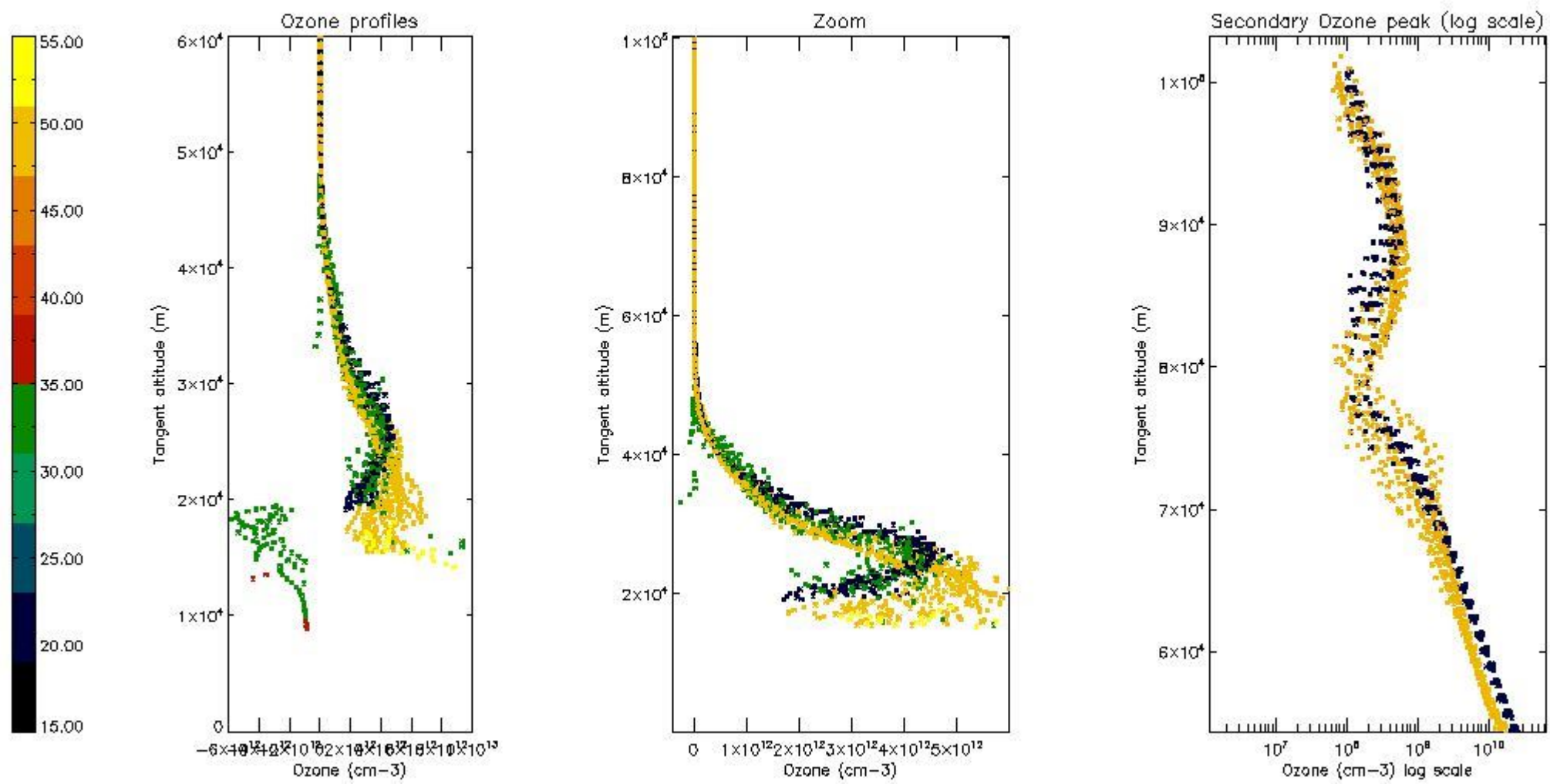
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



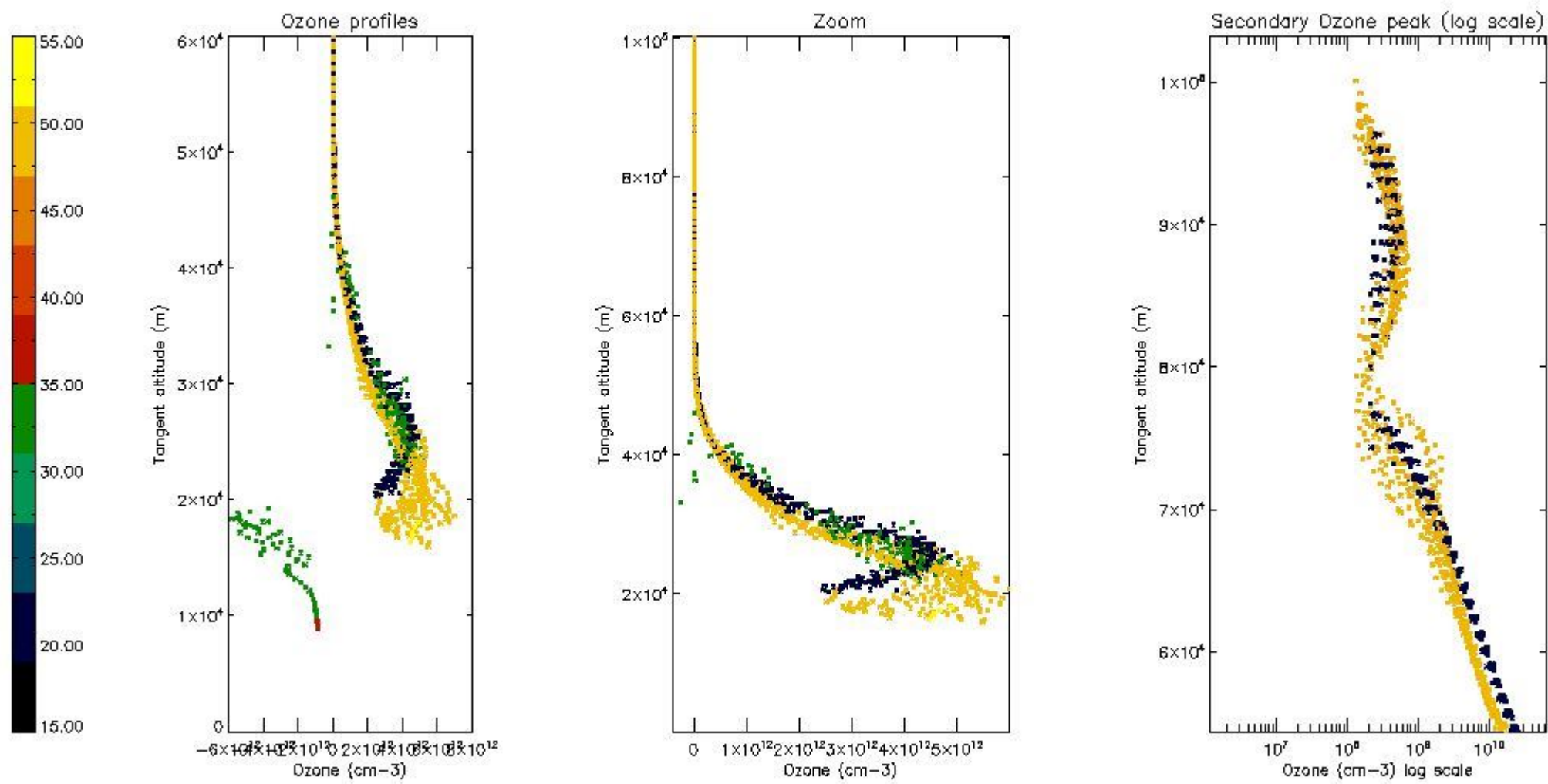
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

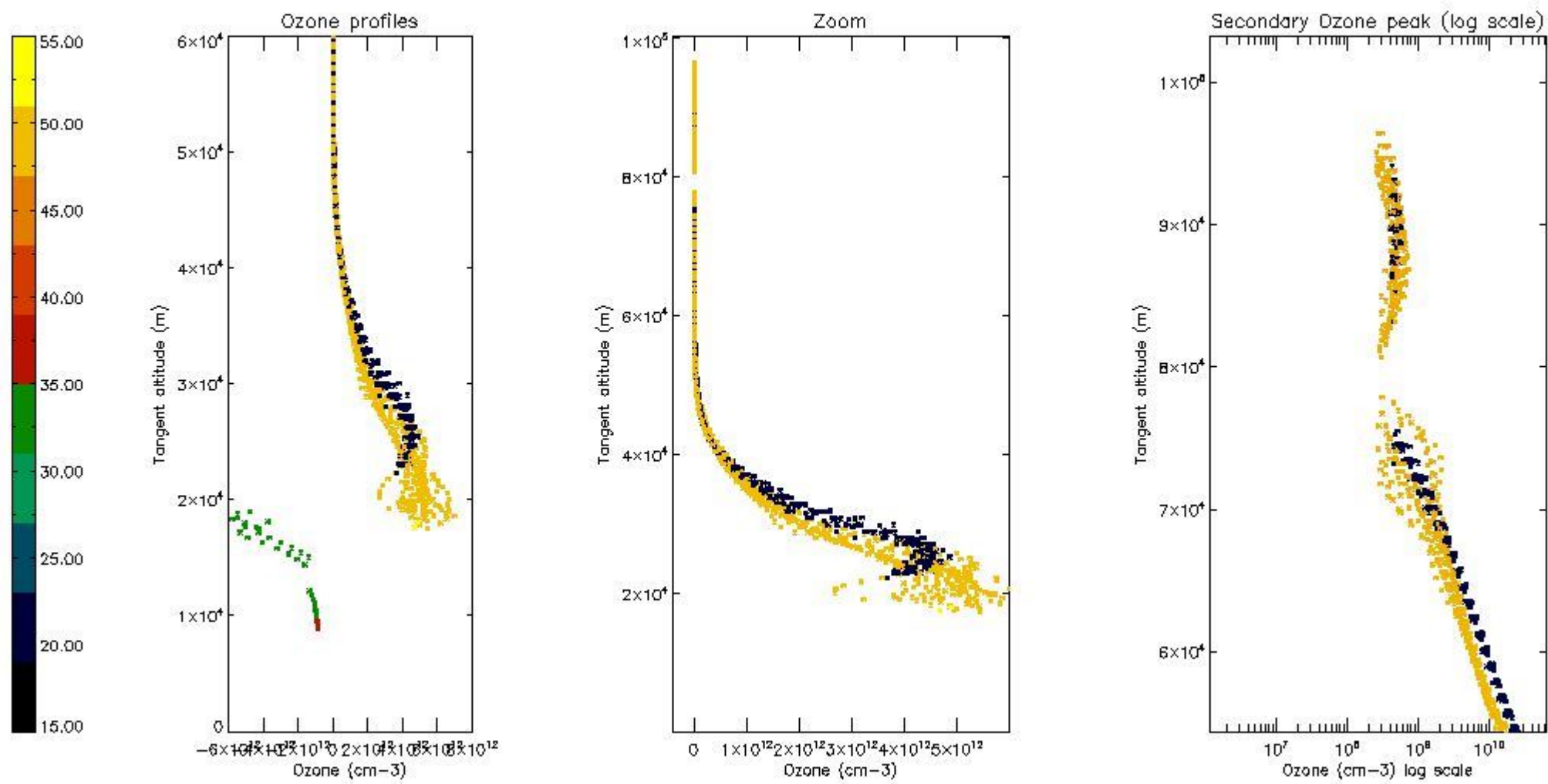
The colorbar represents the latitude.



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

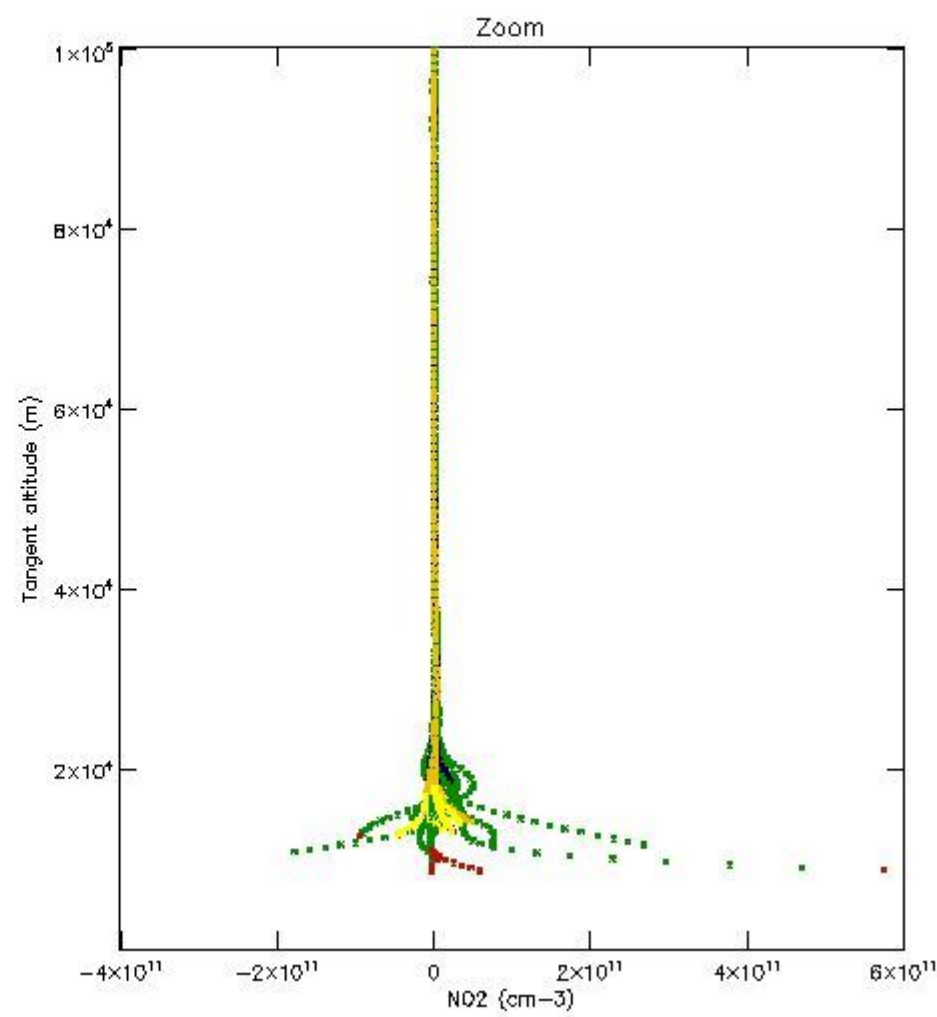
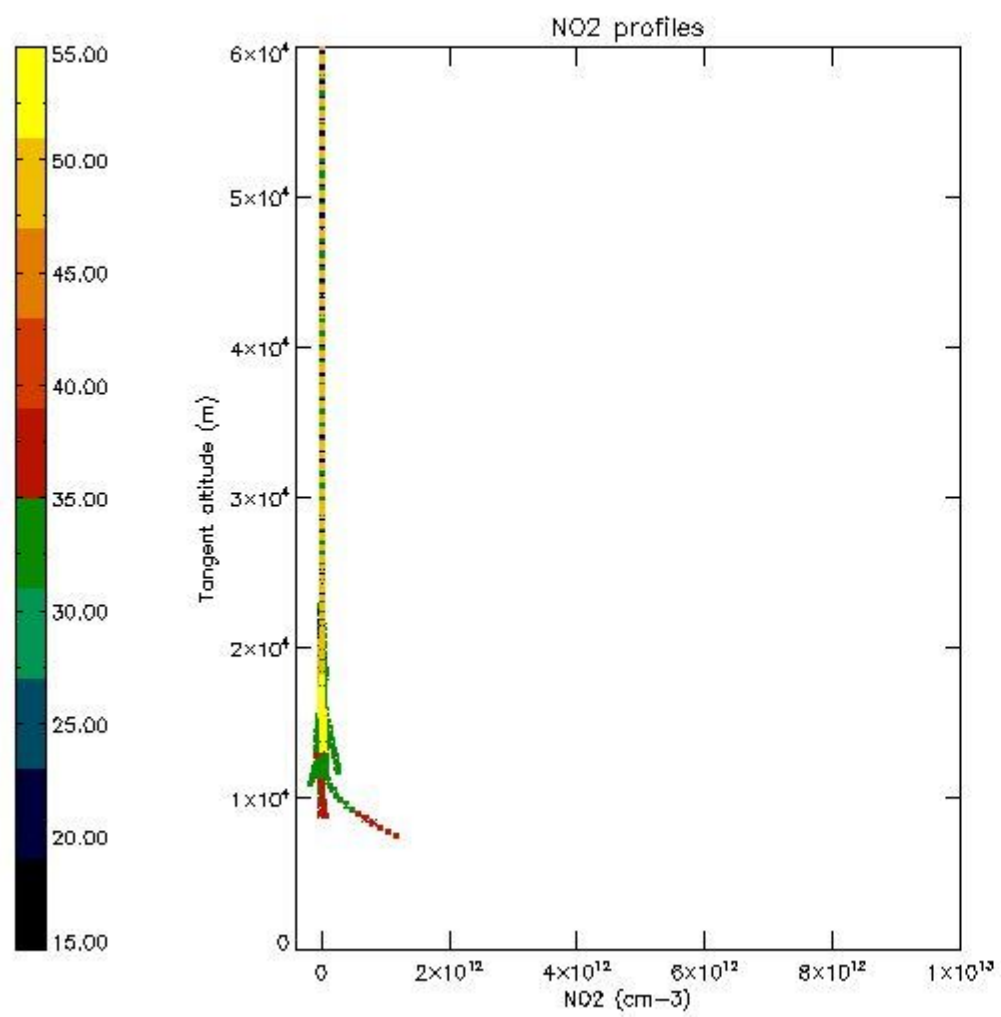
The colorbar represents the latitude.





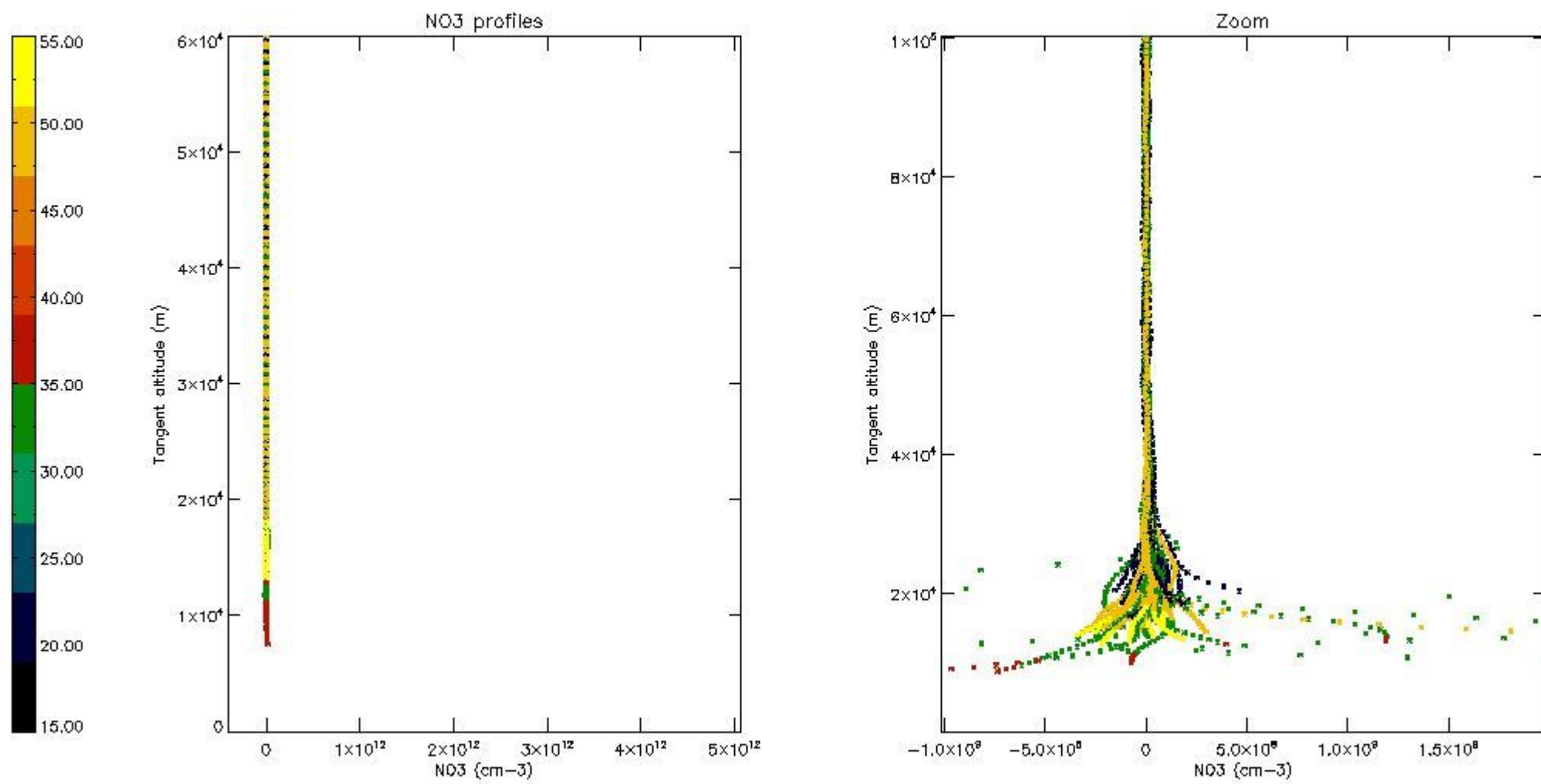
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



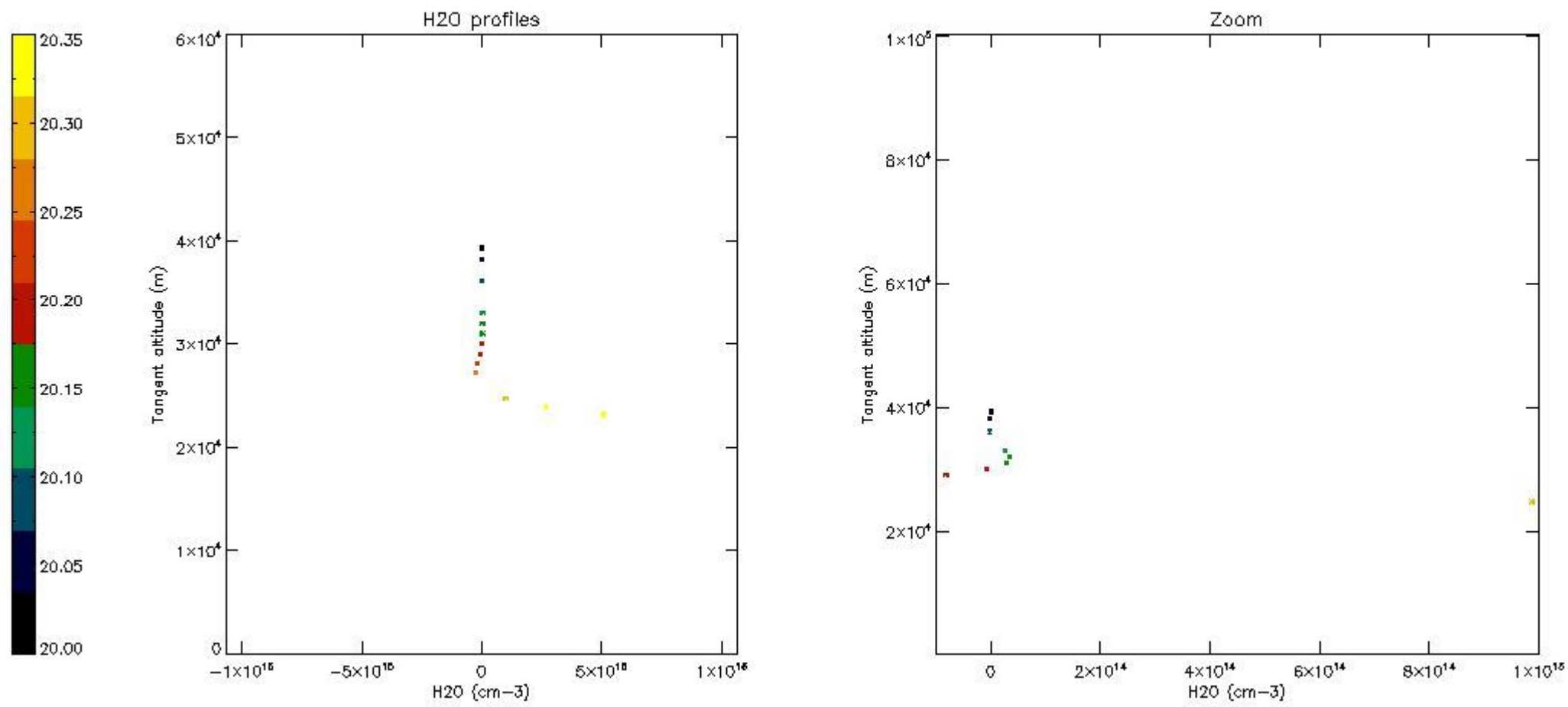
*5.7 Plot NO<sub>3</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

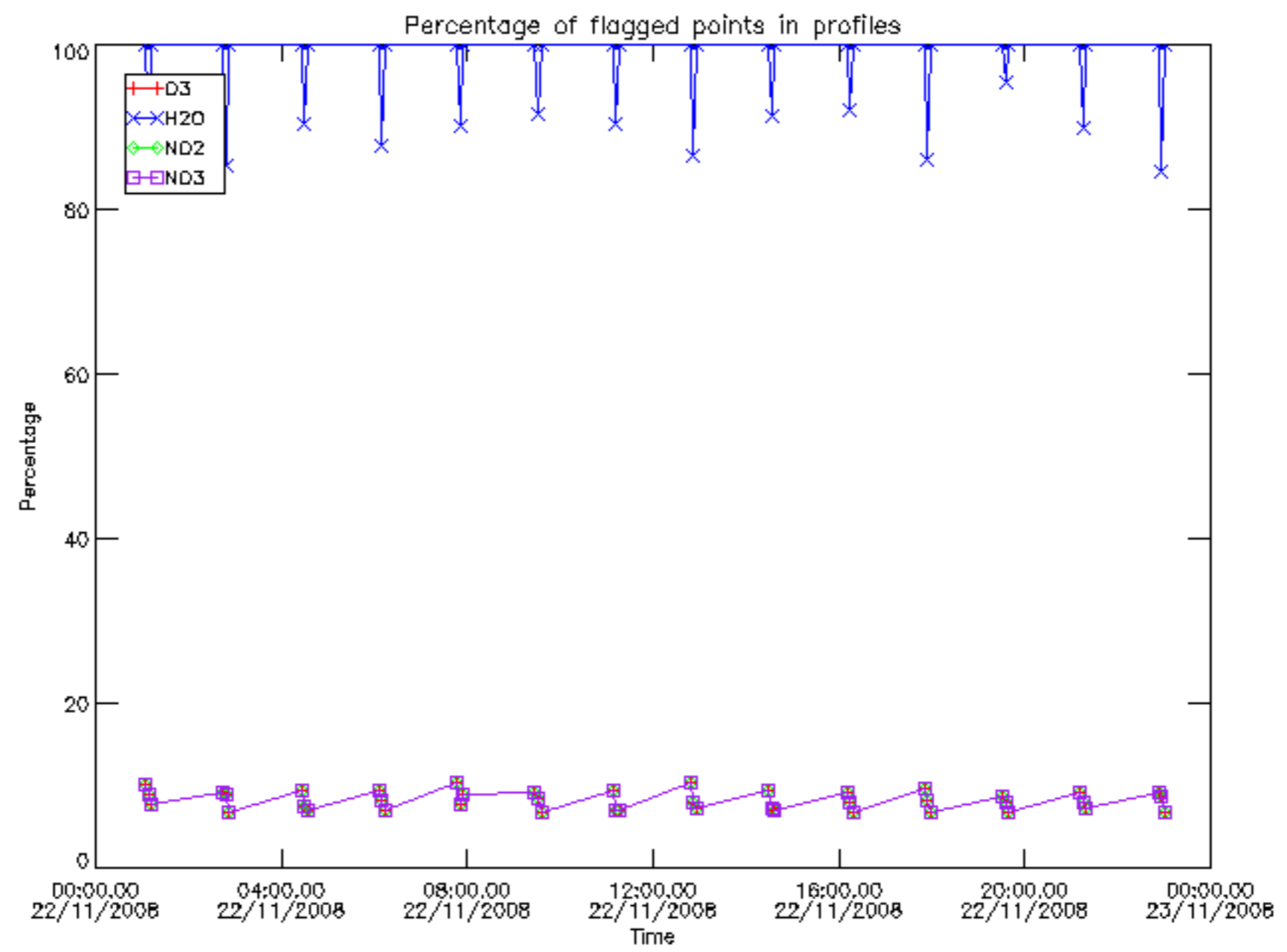
The colorbar represents the latitude.



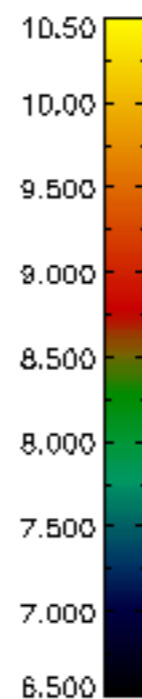
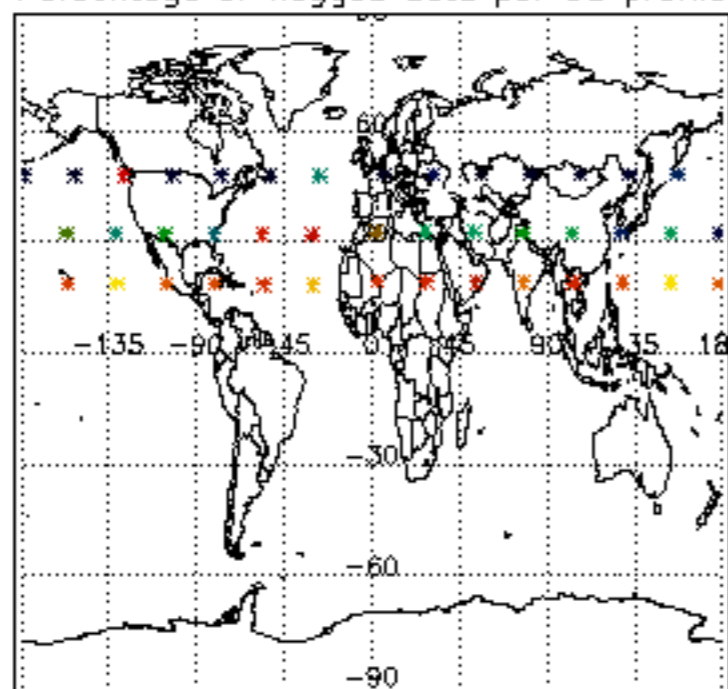
## 6. Auxiliary Data Files used for the production reported in section 2

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.

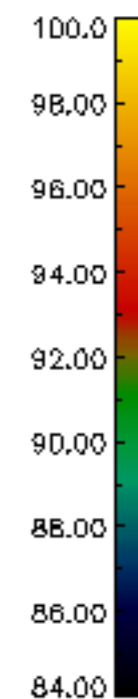
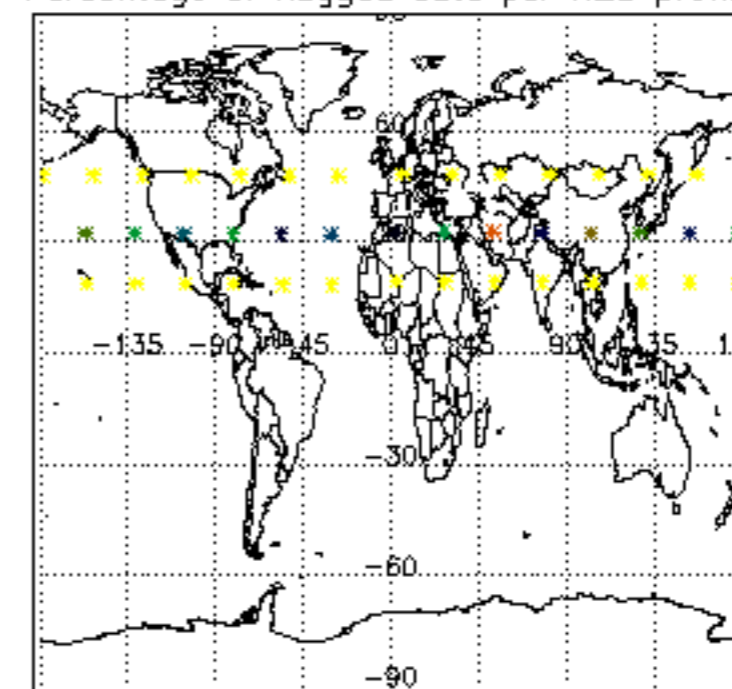
| Type                      | Auxiliary Filename  | Used since product | Used since product date |
|---------------------------|---|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000 | 1                  | 22-NOV-2008 00:03:15    |
| LEVEL-2_PROC_CONFIG       | GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000 | 1                  | 22-NOV-2008 00:03:15    |
| CROSS_SECTIONS_FILE       | GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000 | 1                  | 22-NOV-2008 00:03:15    |



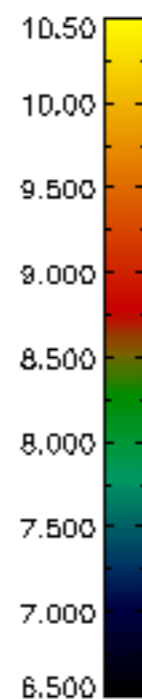
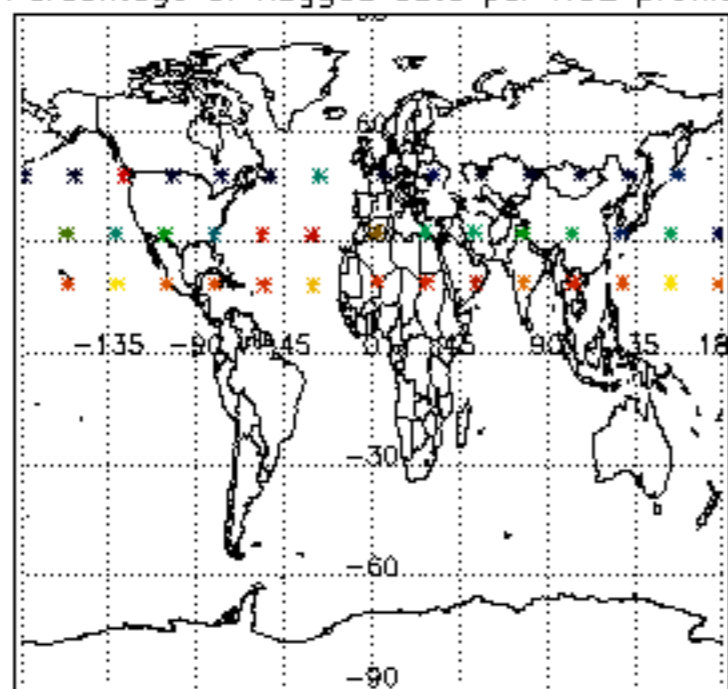
Percentage of flagged data per D3 profile



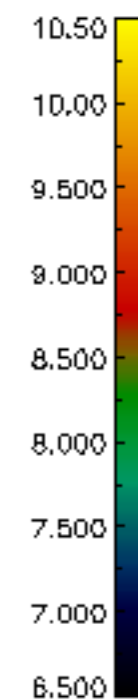
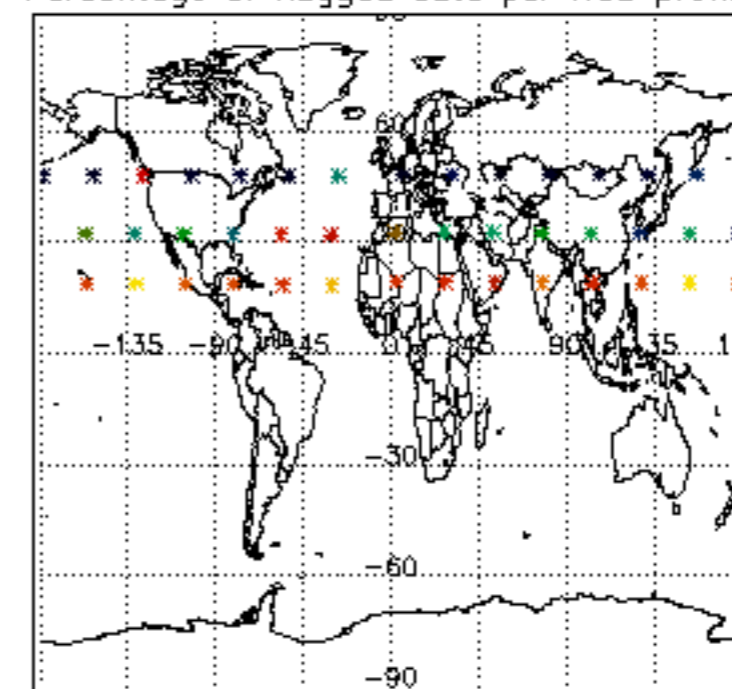
Percentage of flagged data per H2O profile

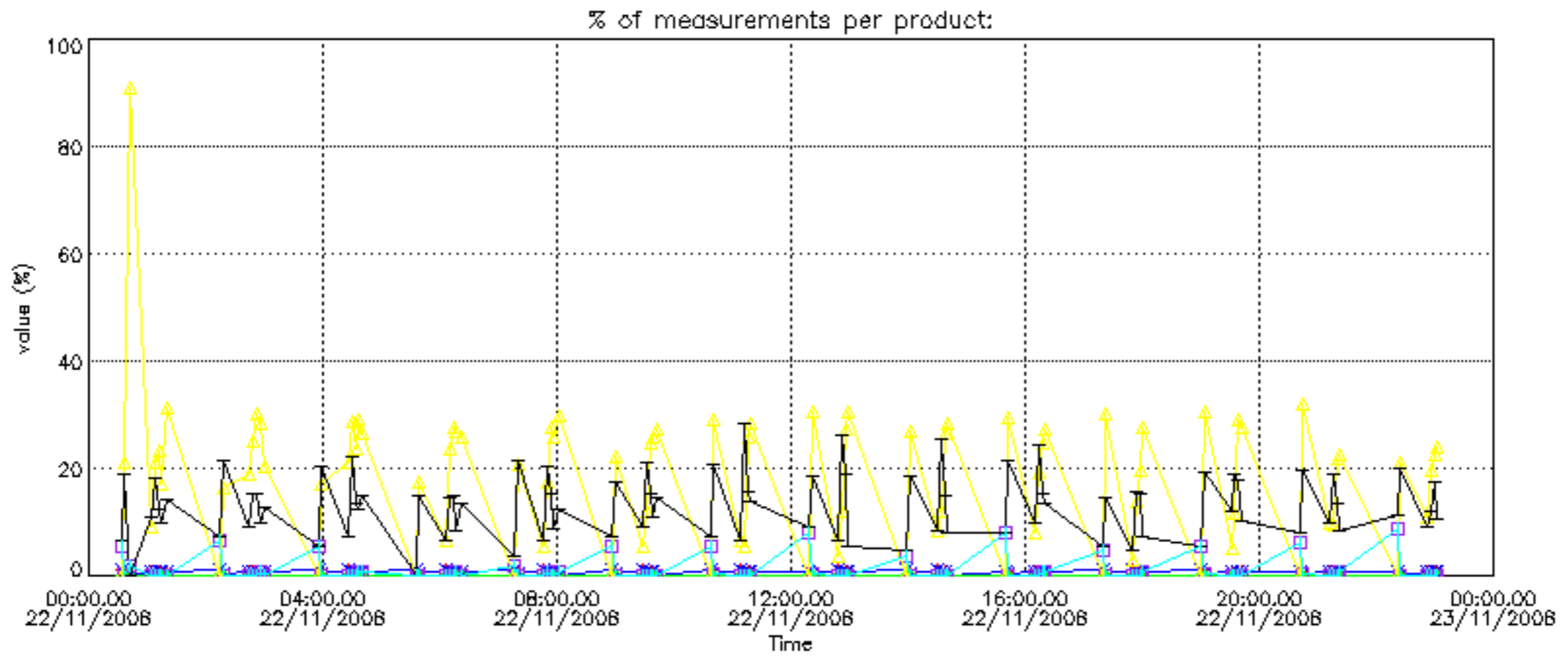


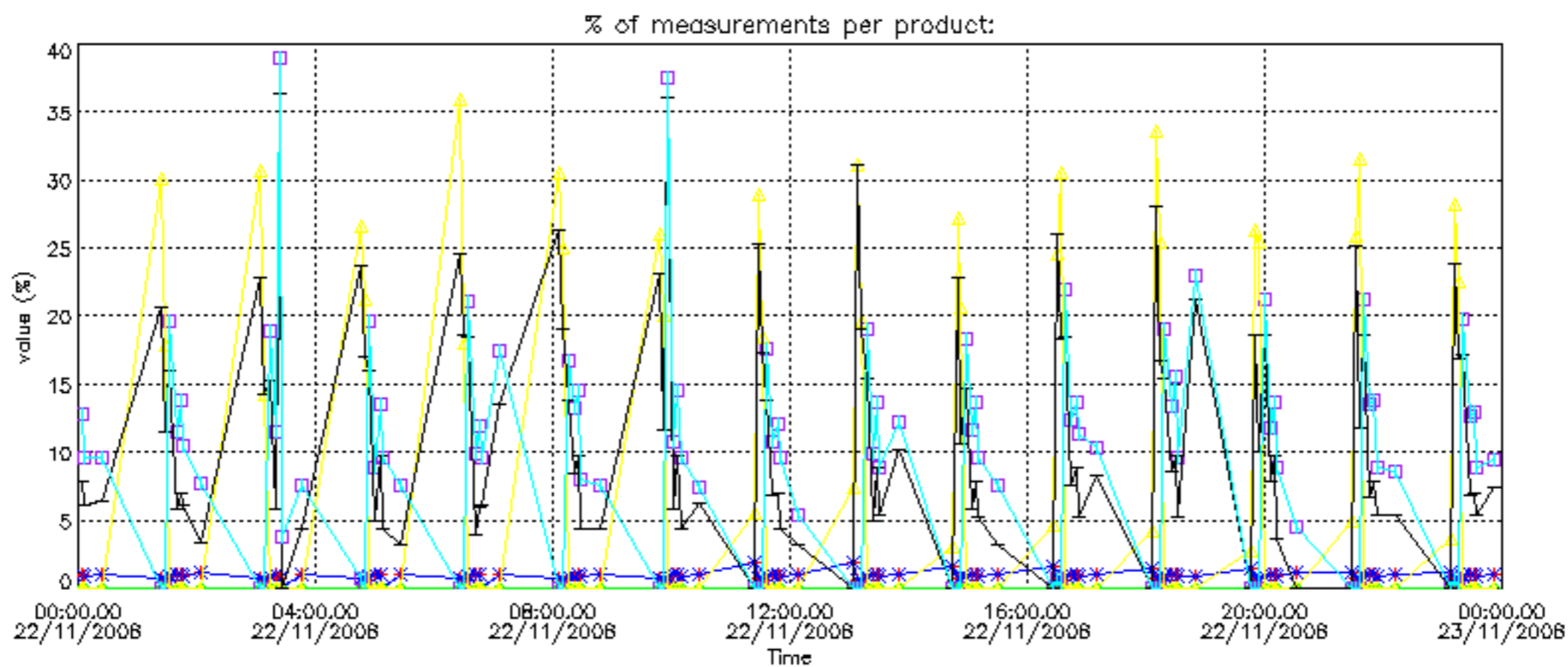
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

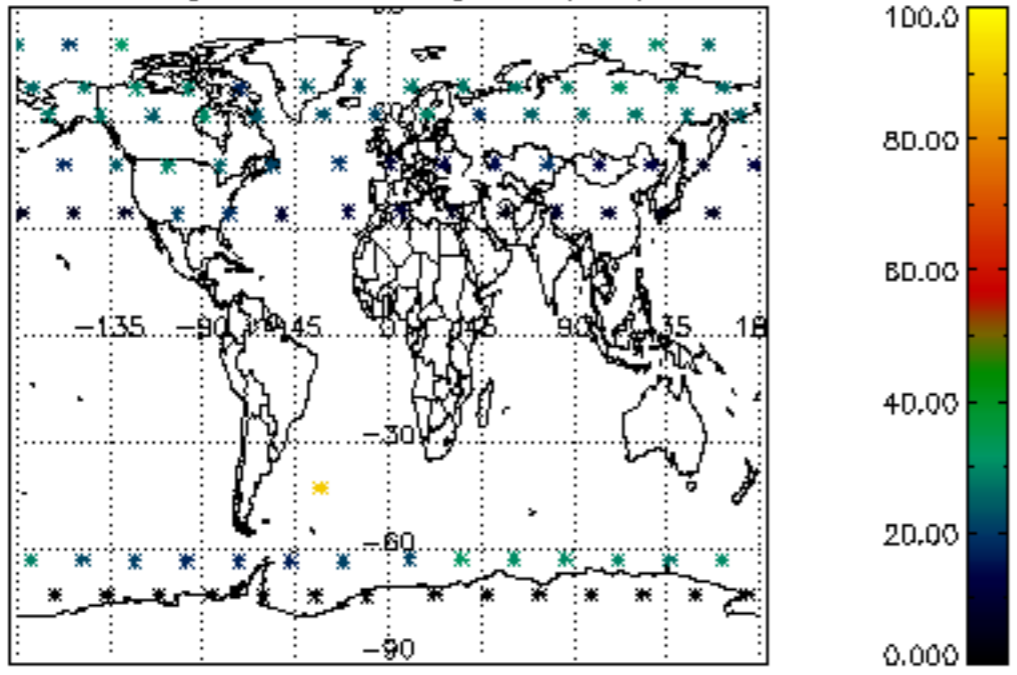




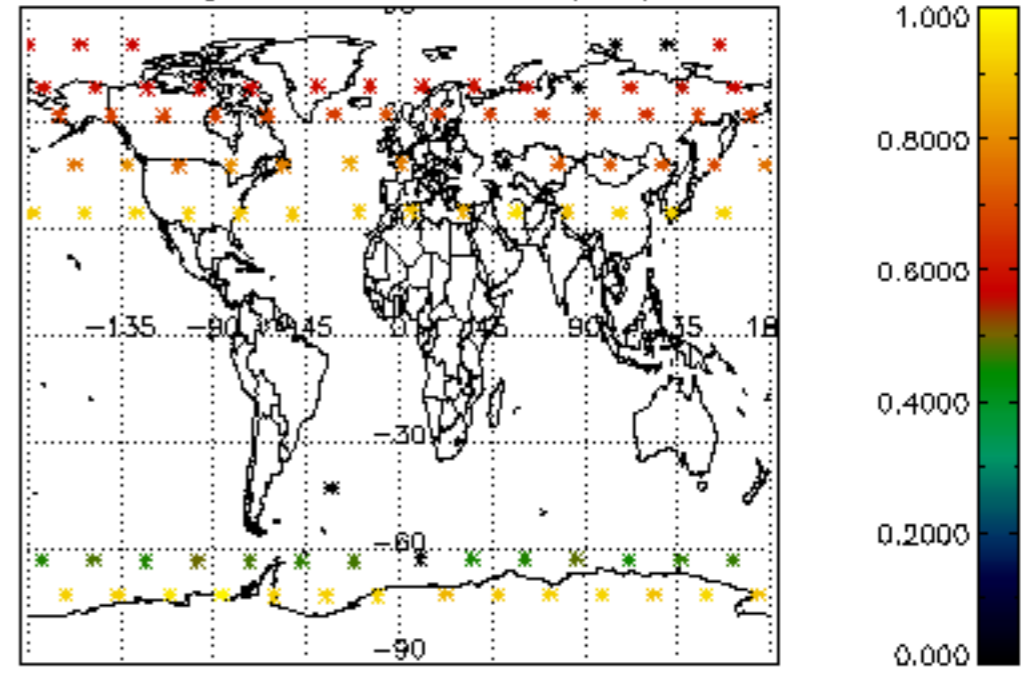




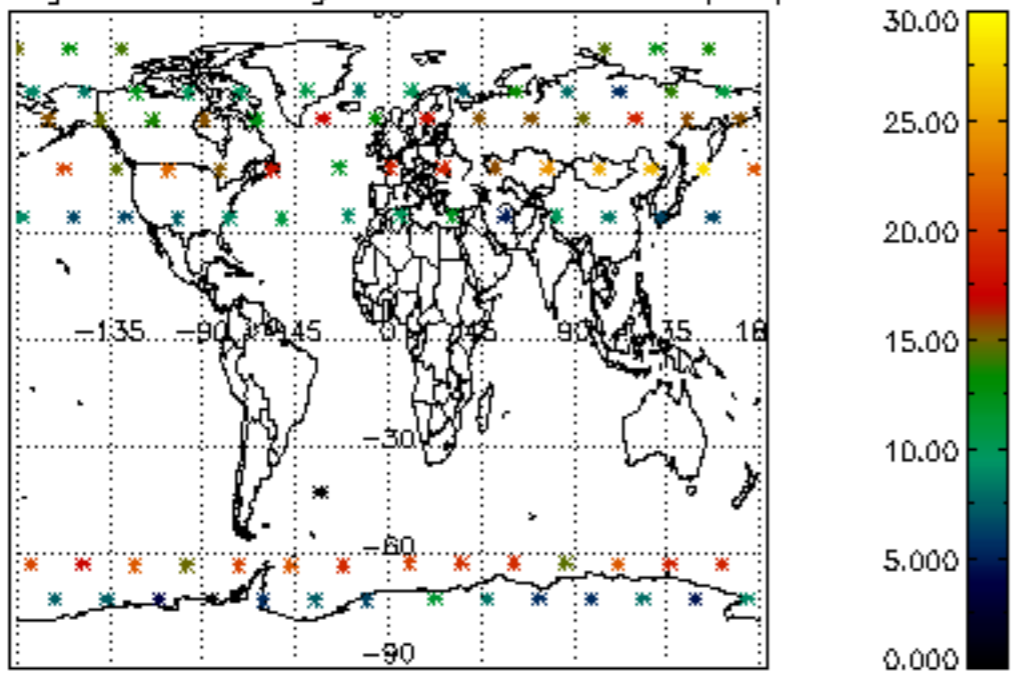
Percentage of cosmic ray hits per profile



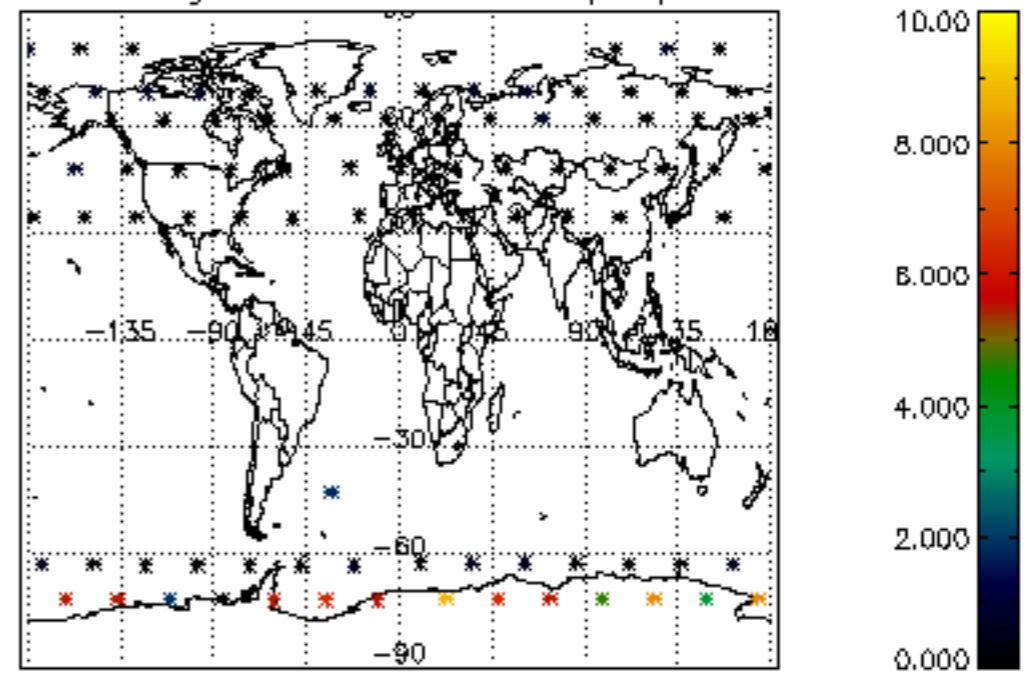
Percentage of datation errors per profile



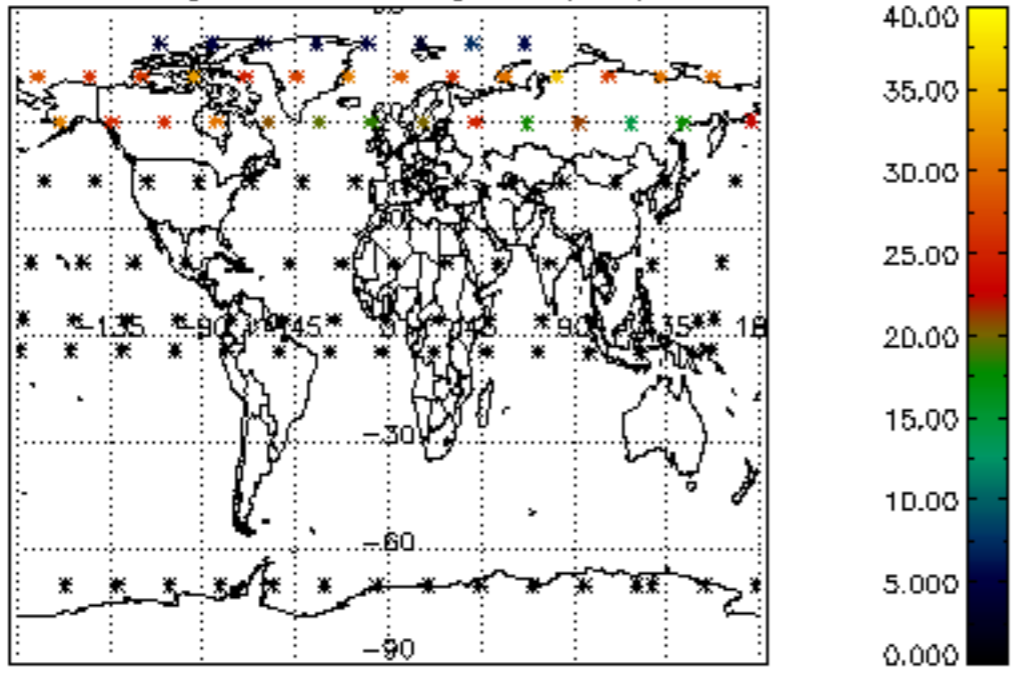
Percentage of star falling outside central band per profile



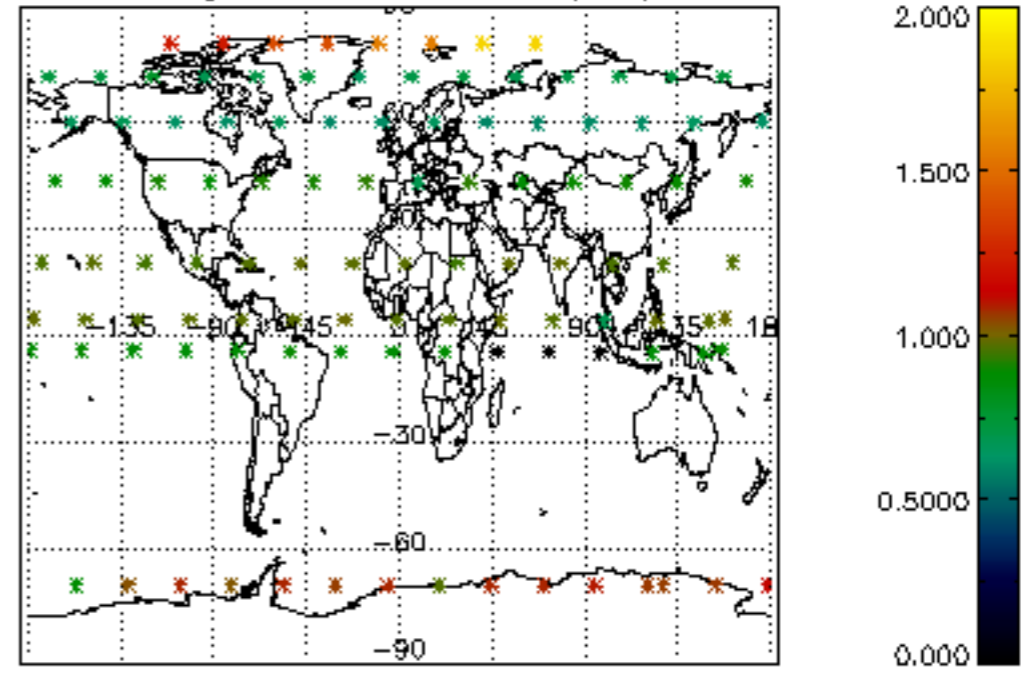
Percentage of saturation errors per profile



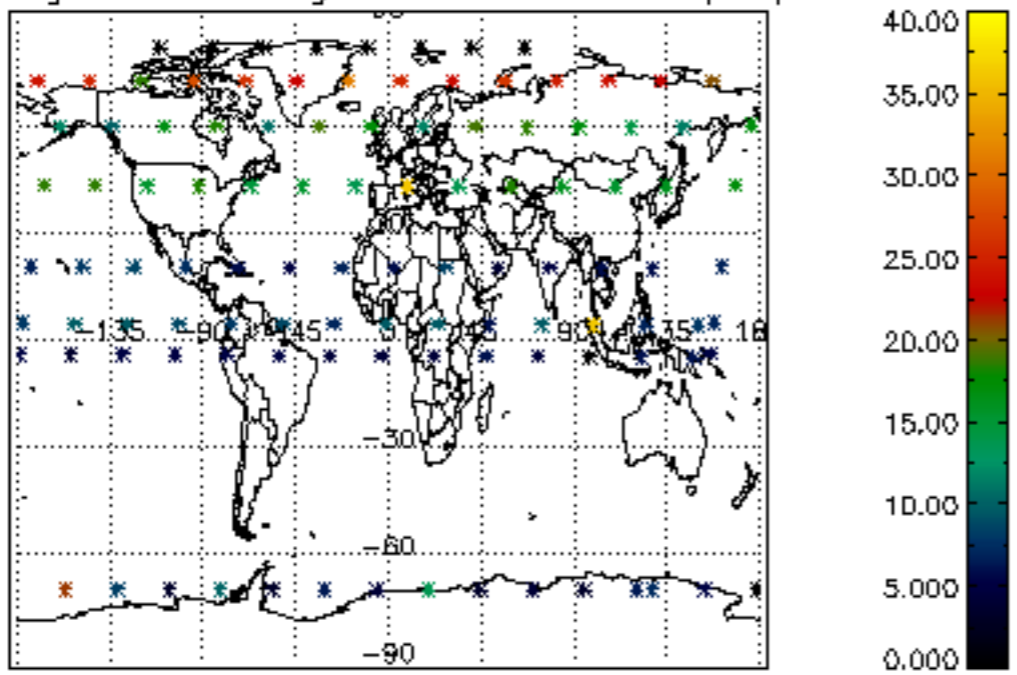
Percentage of cosmic ray hits per profile



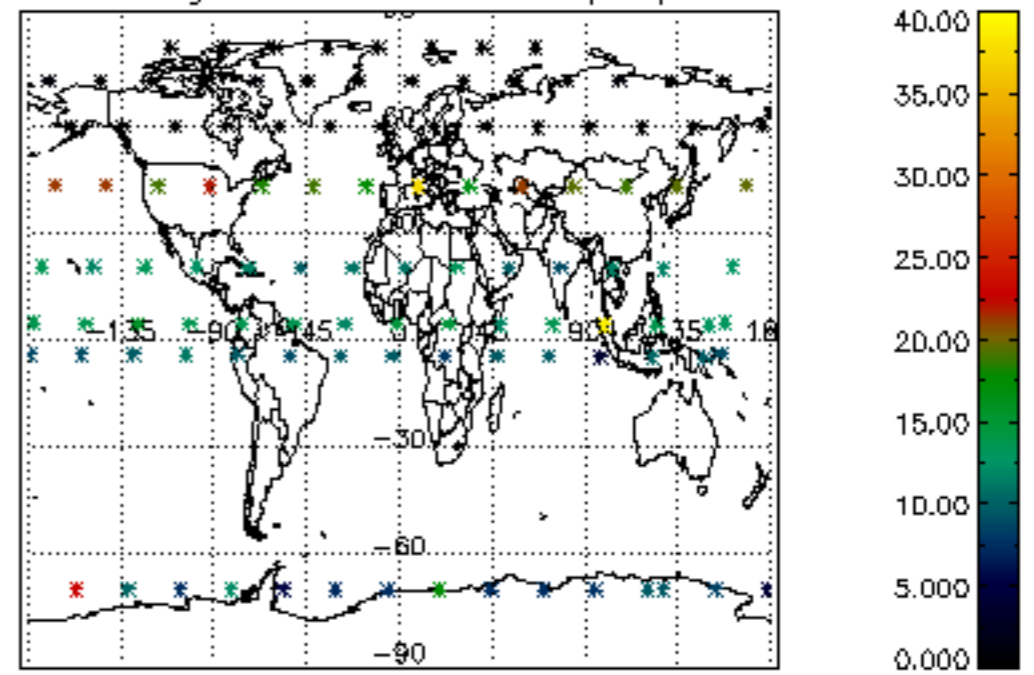
Percentage of datation errors per profile

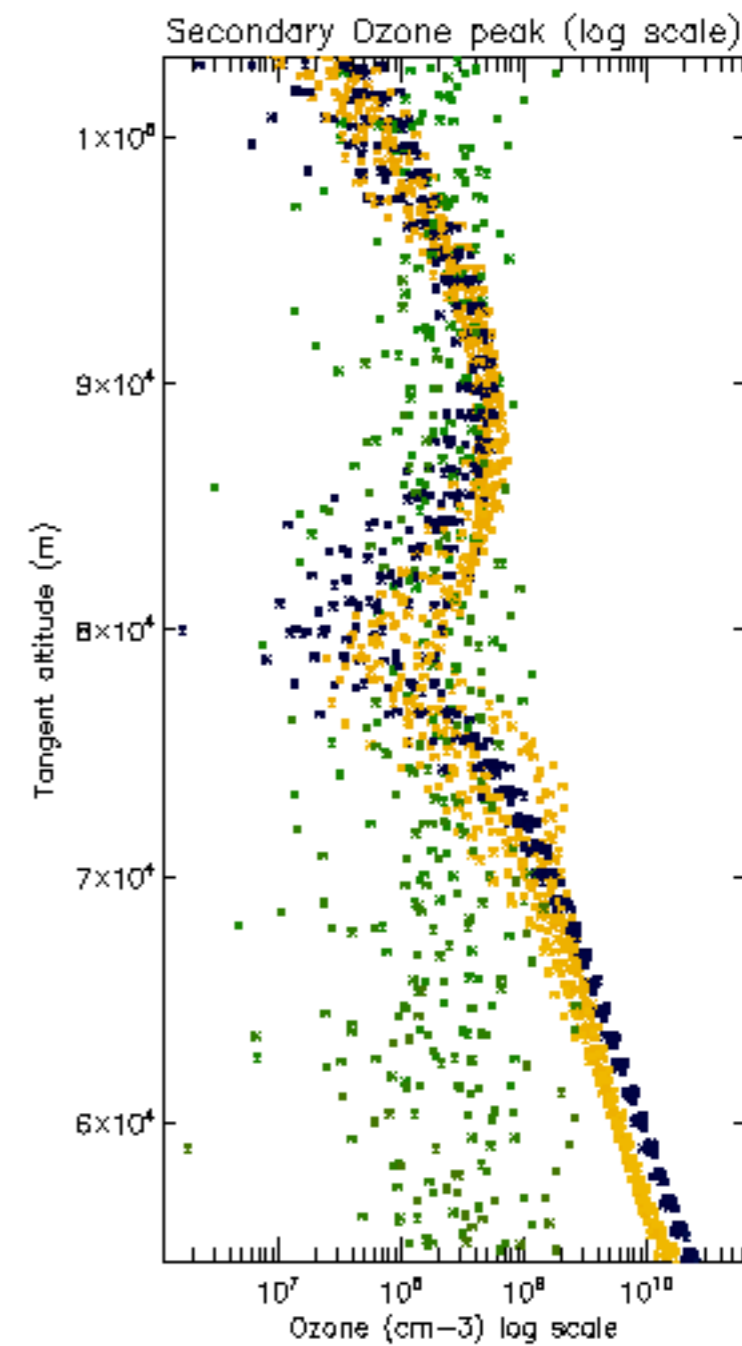
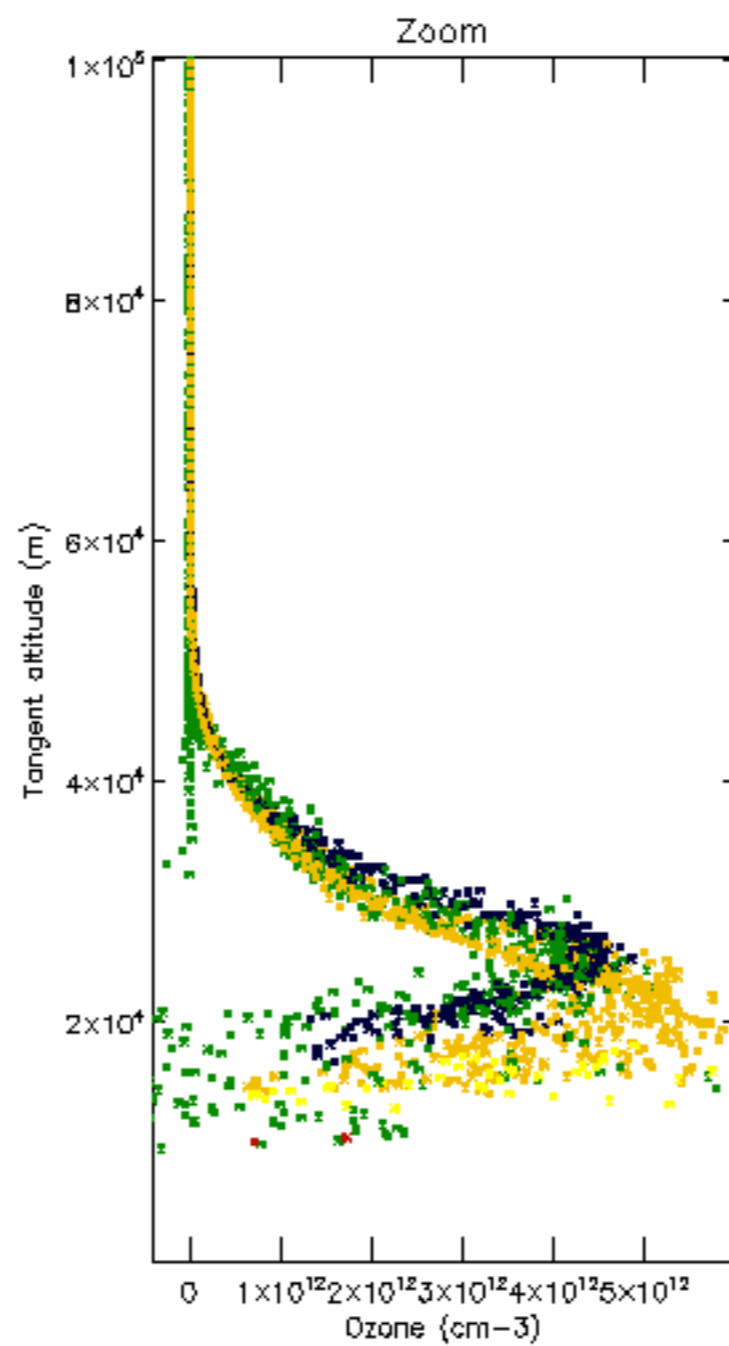
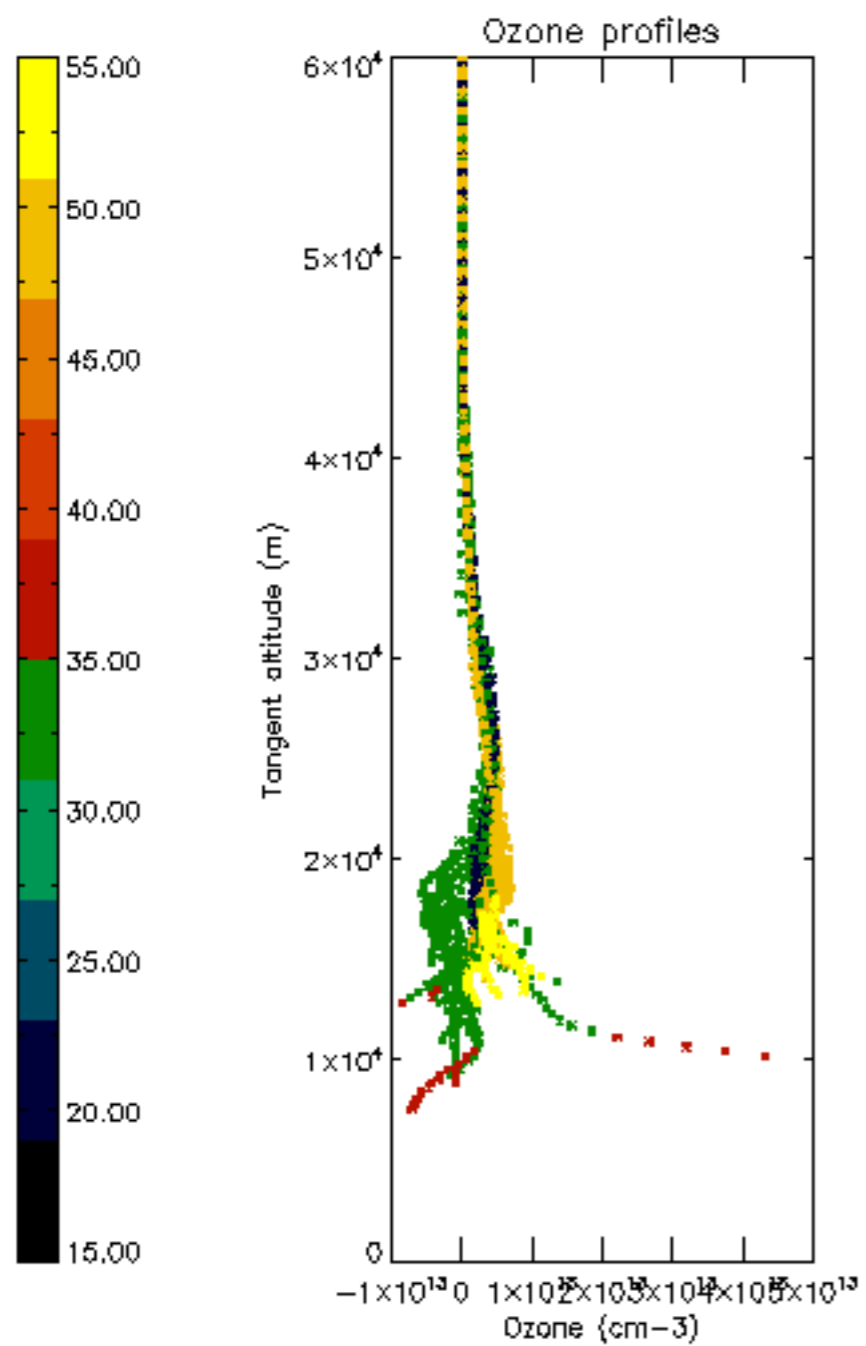


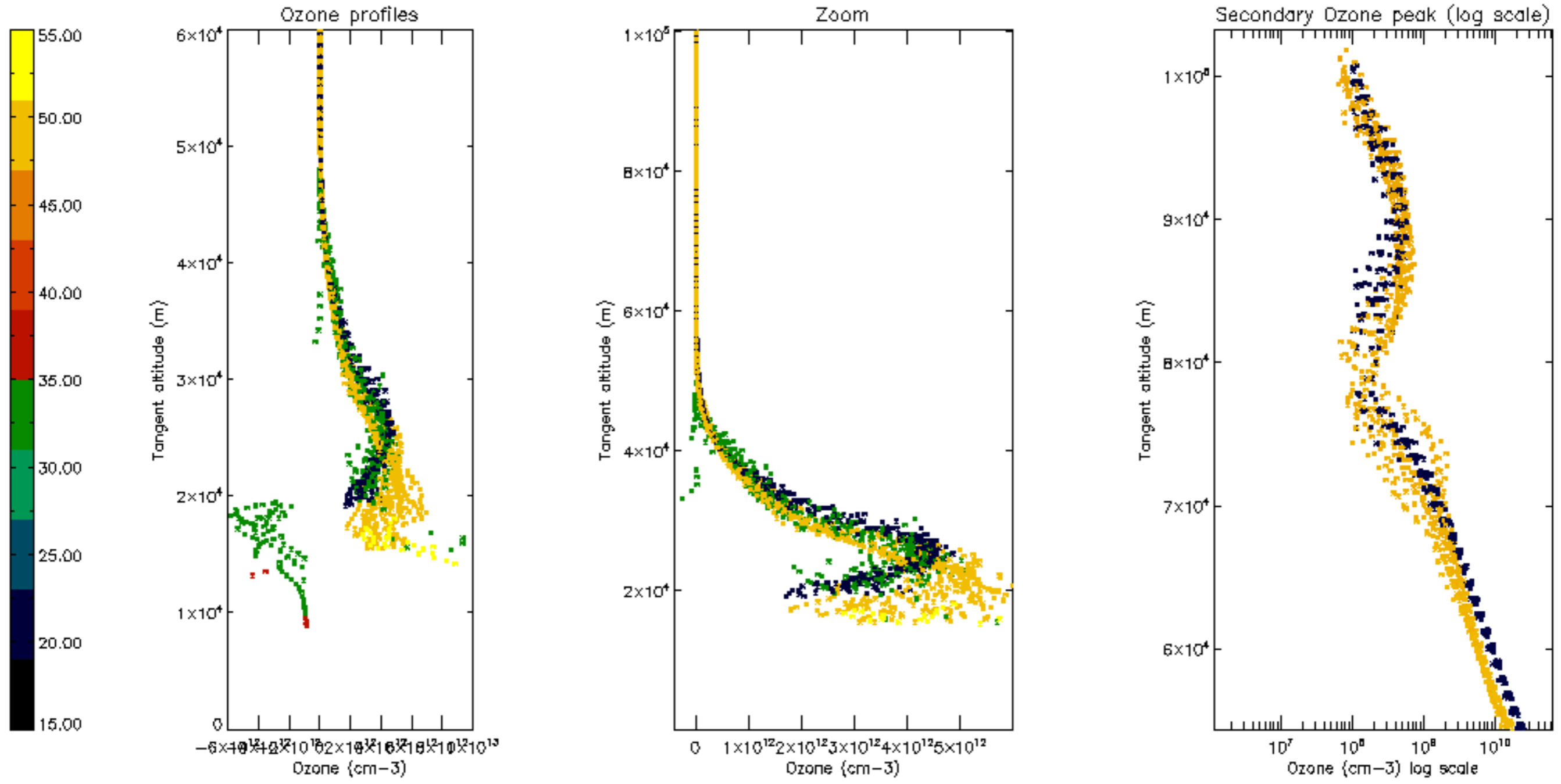
Percentage of star falling outside central band per profile

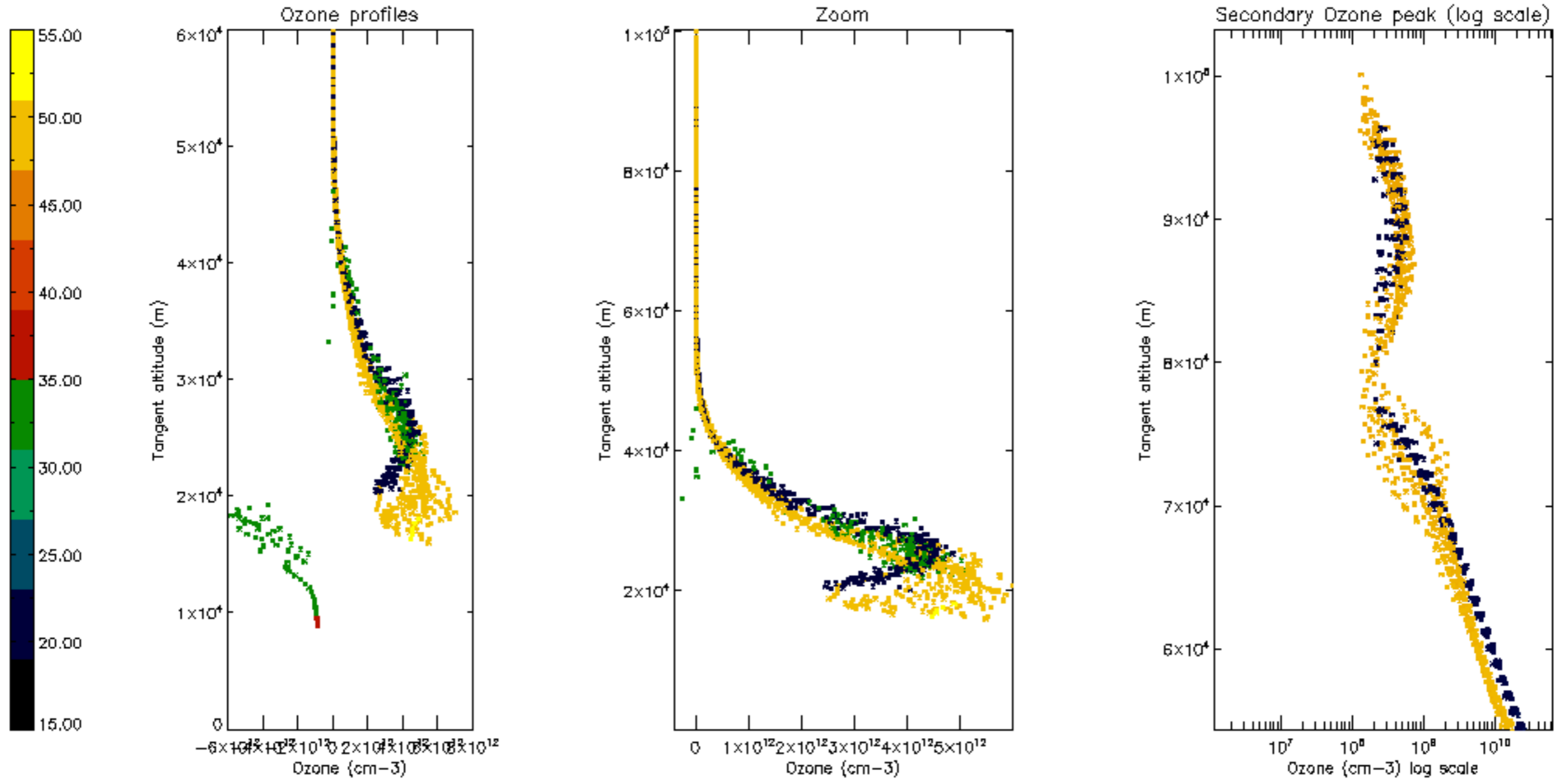


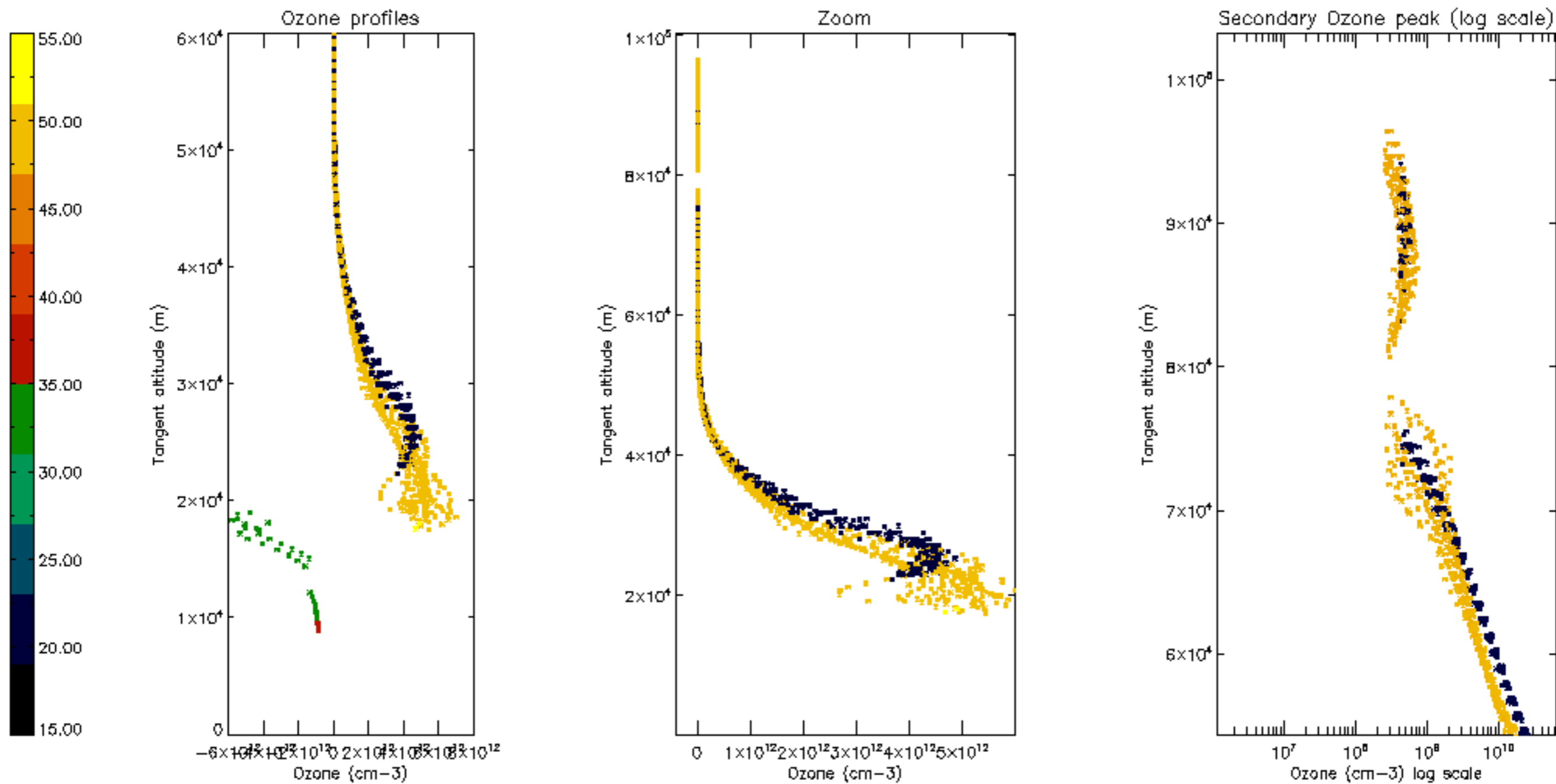
Percentage of saturation errors per profile

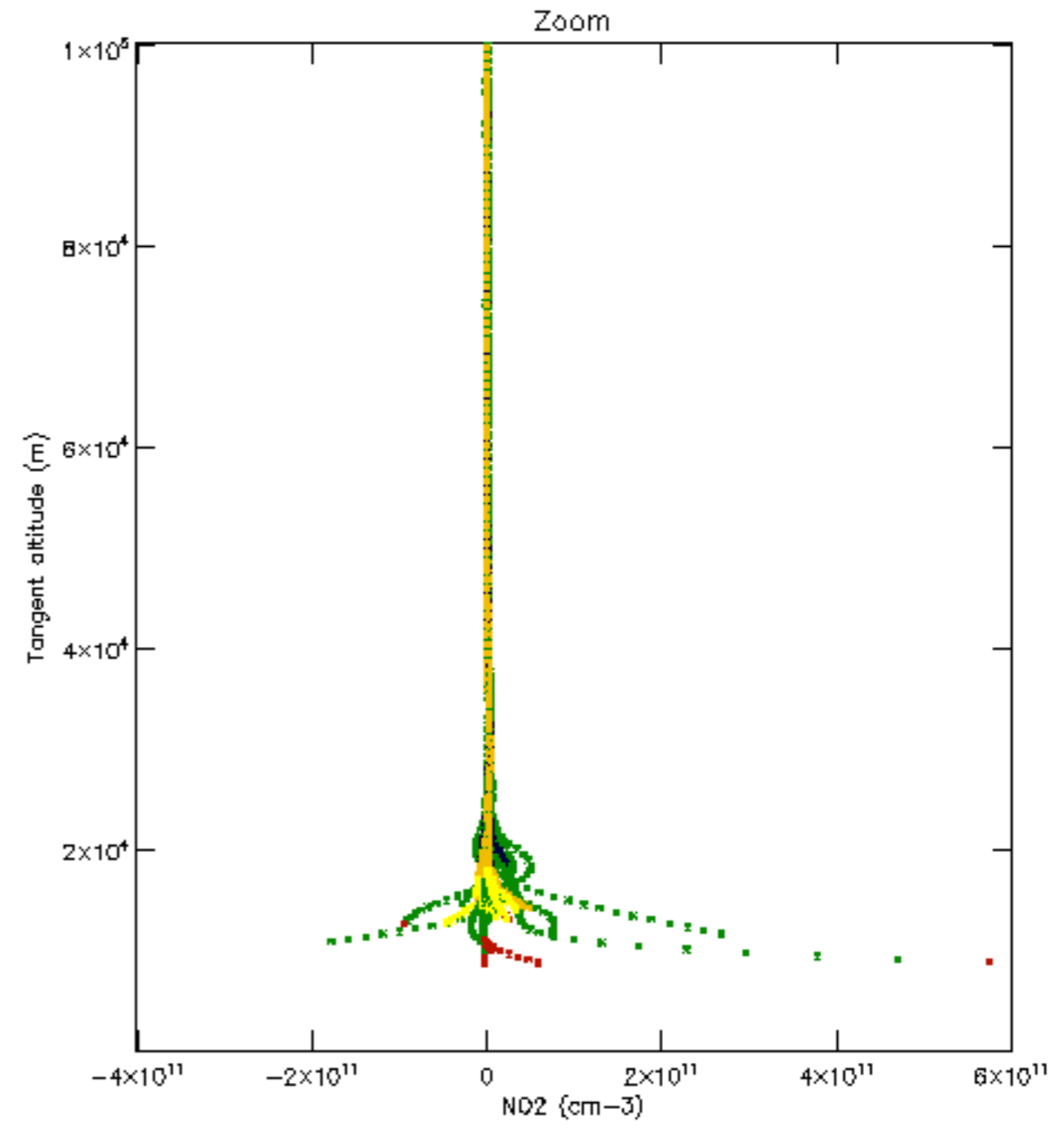
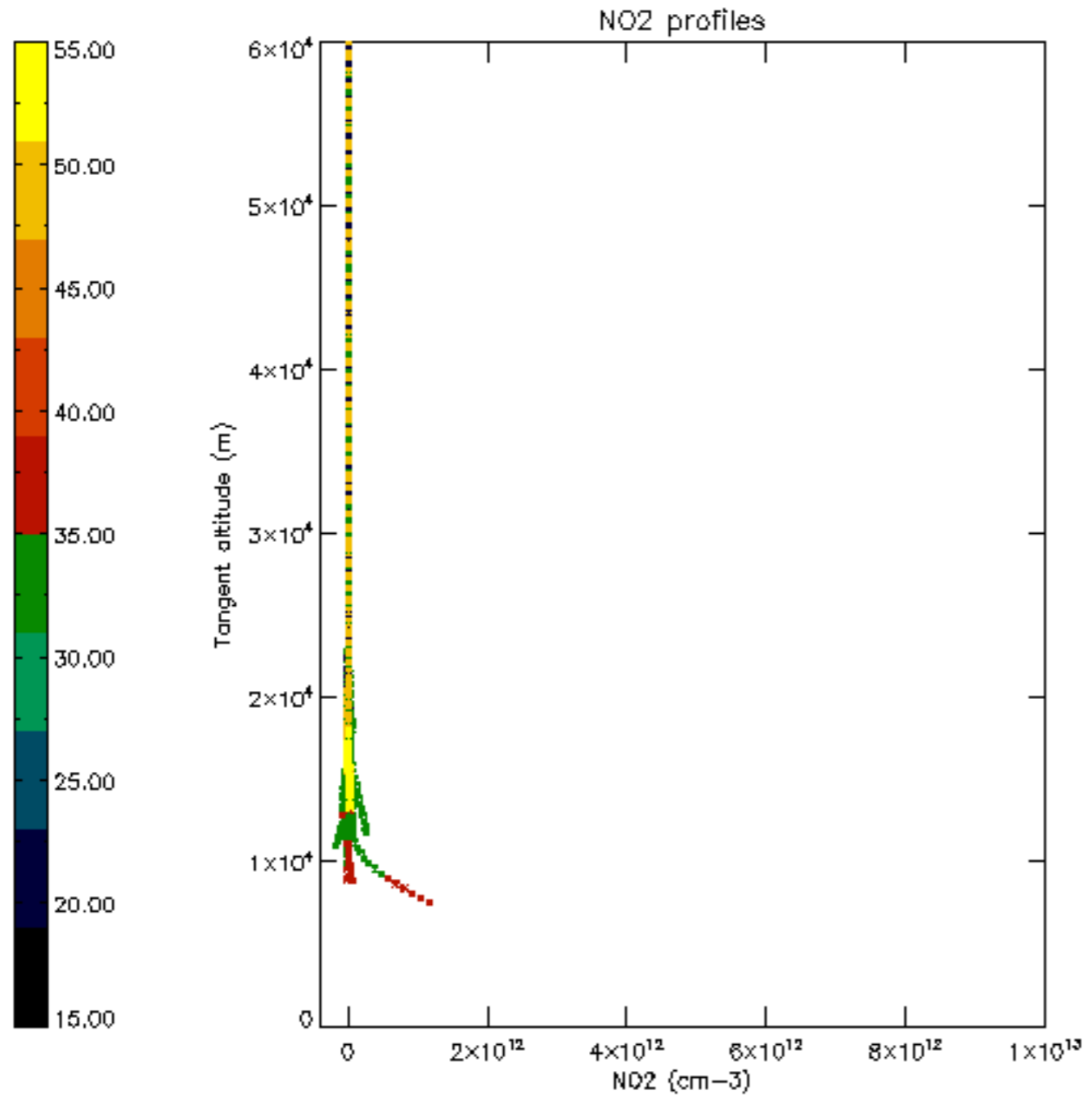


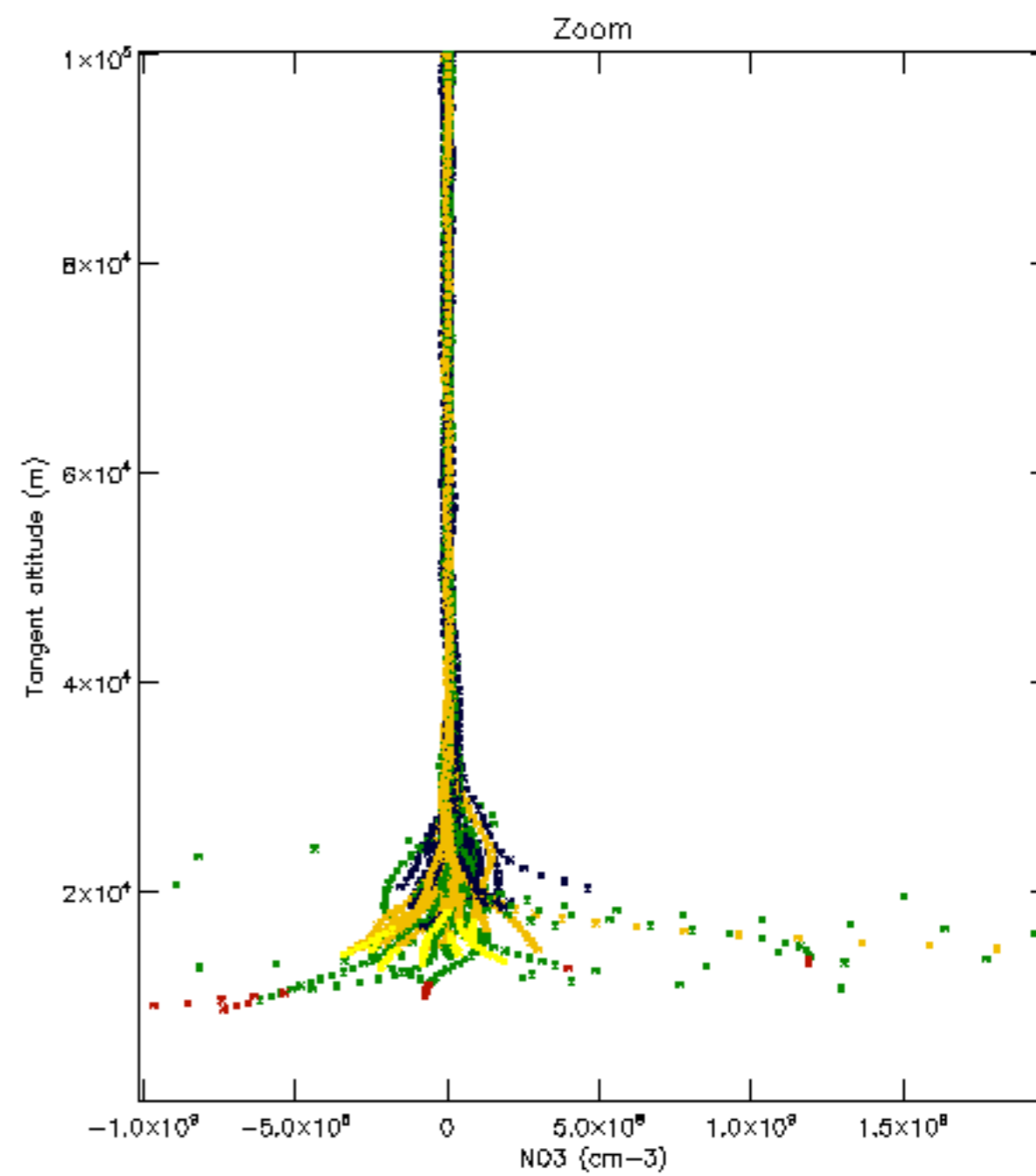
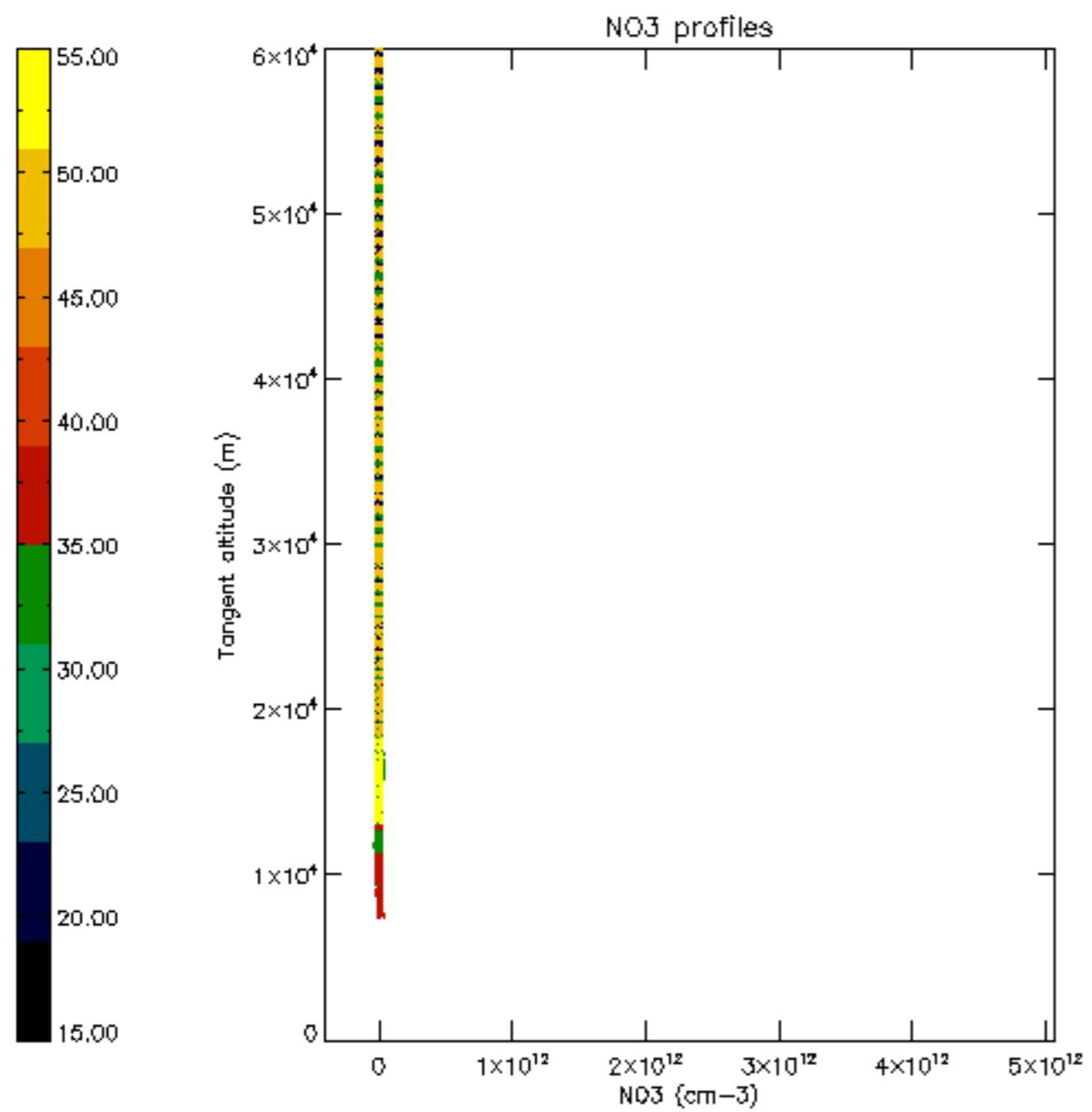




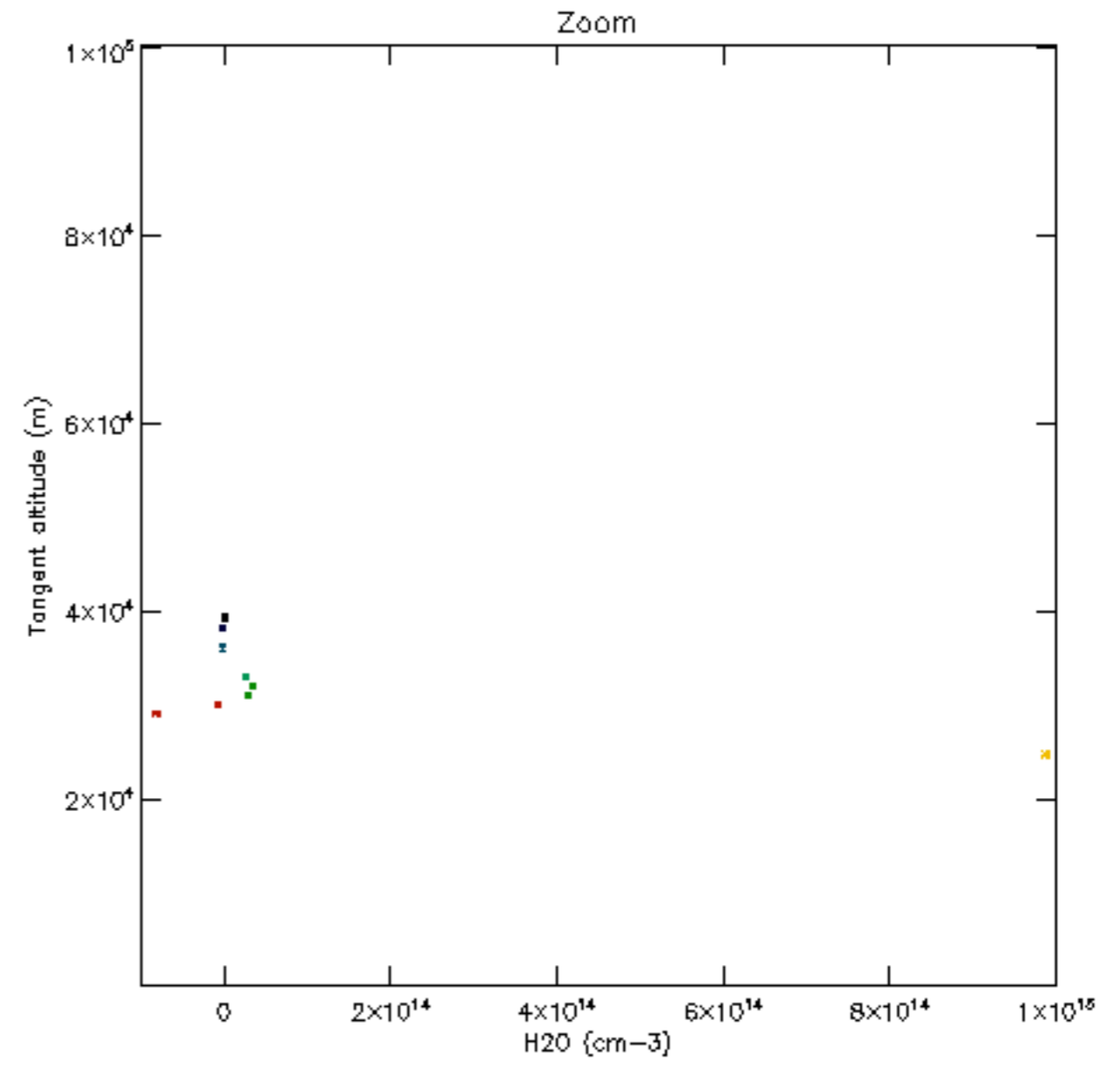
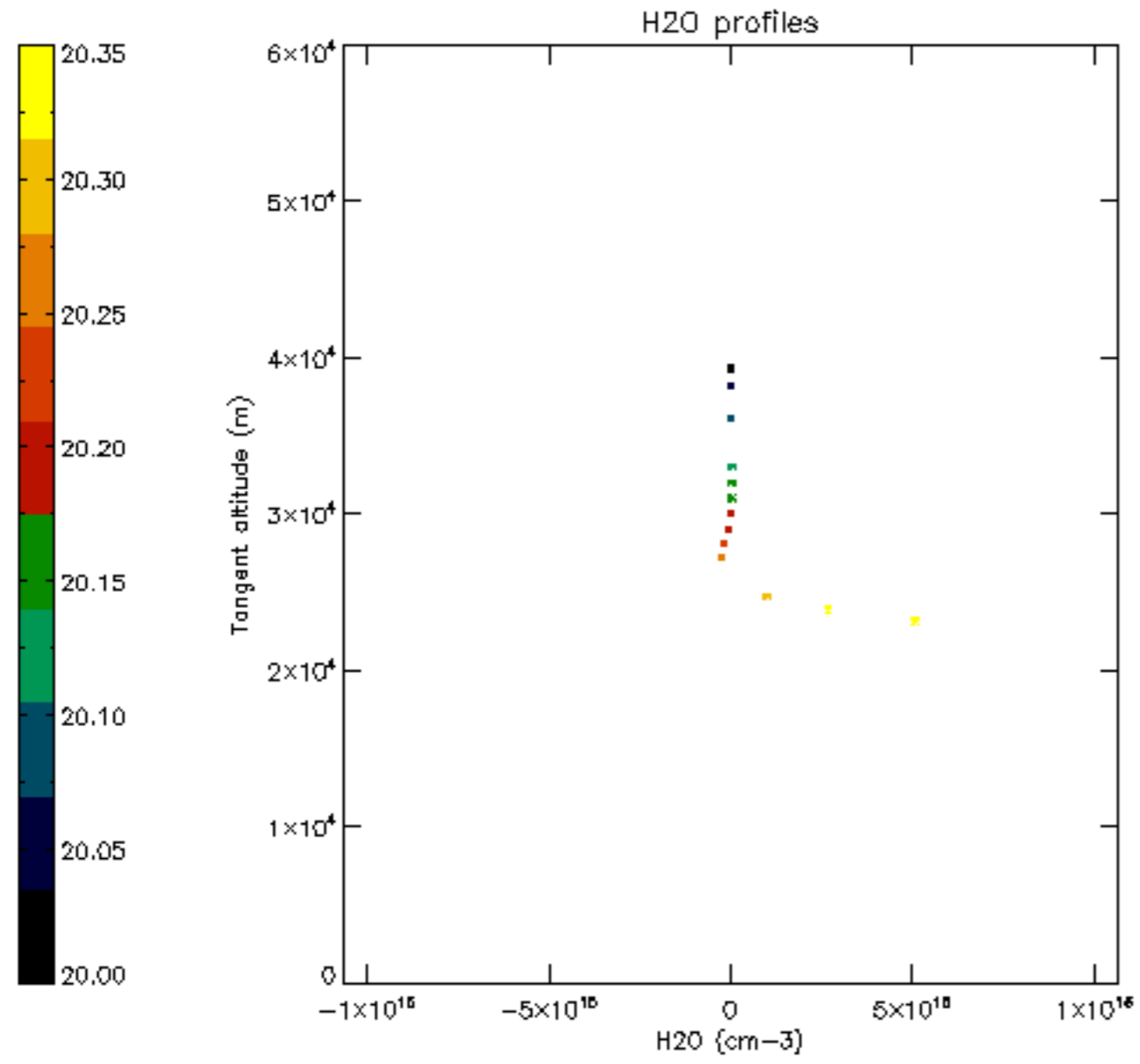


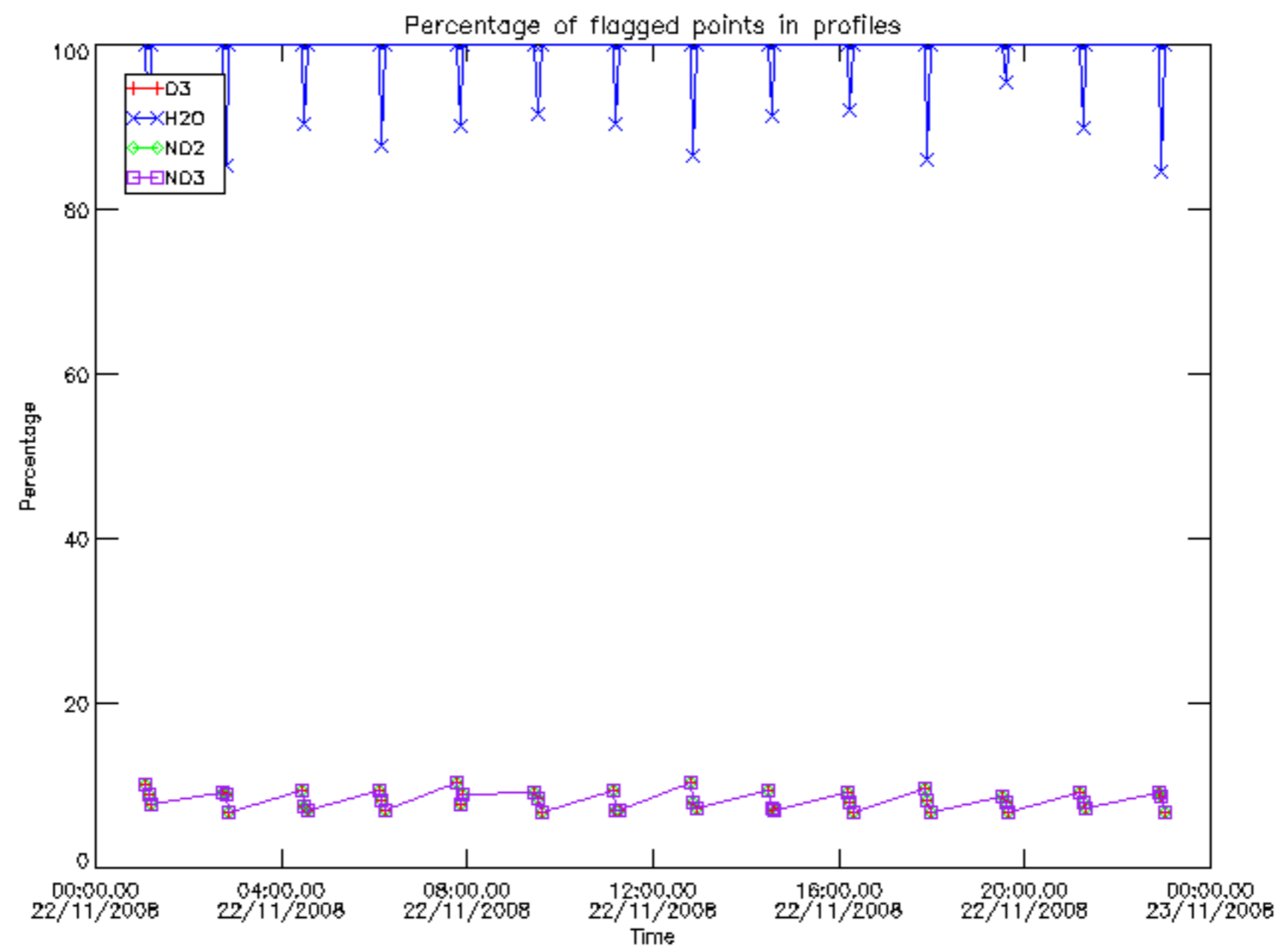




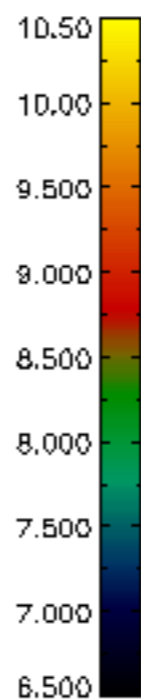
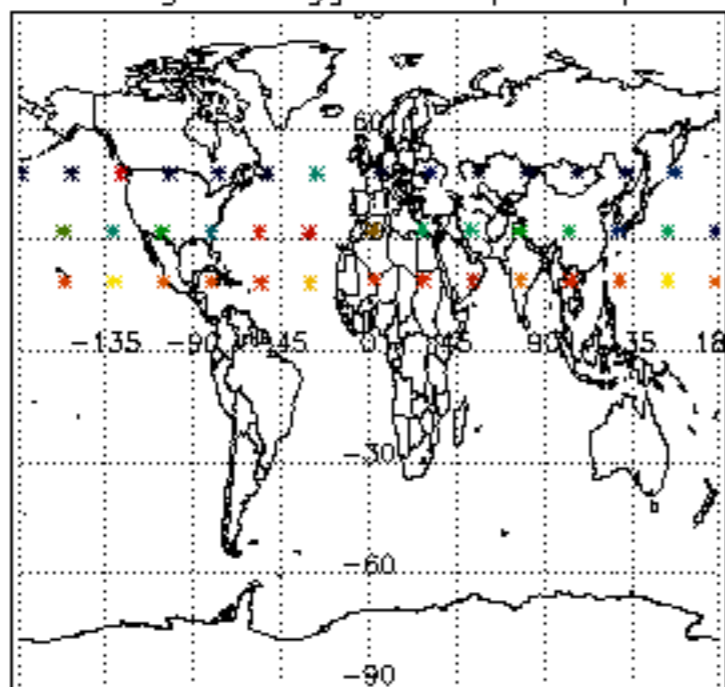




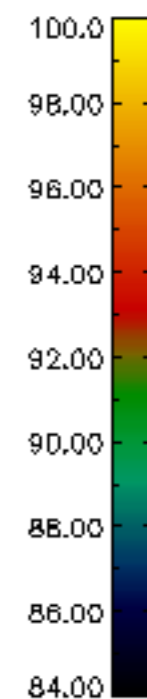
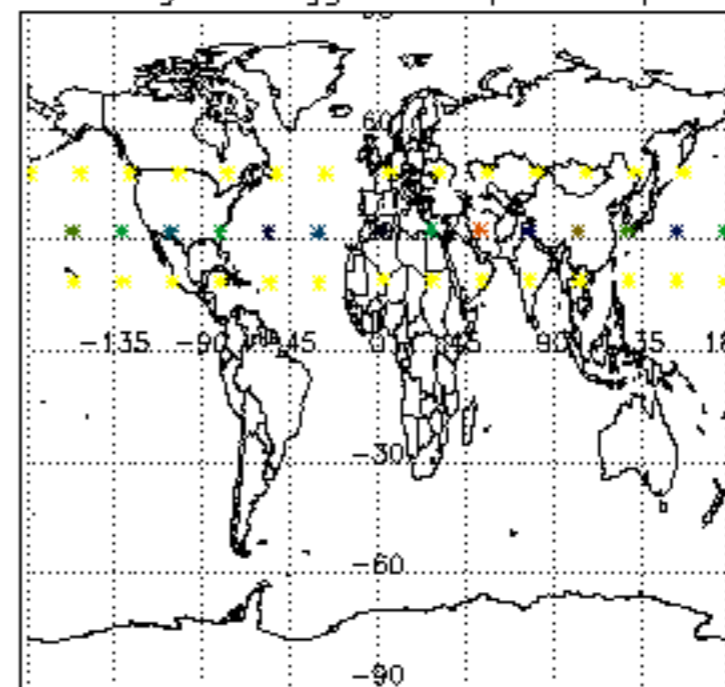




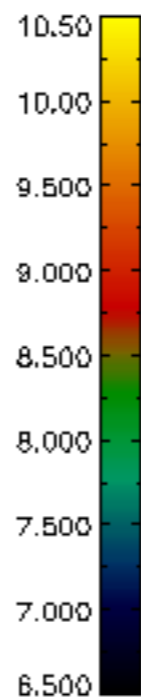
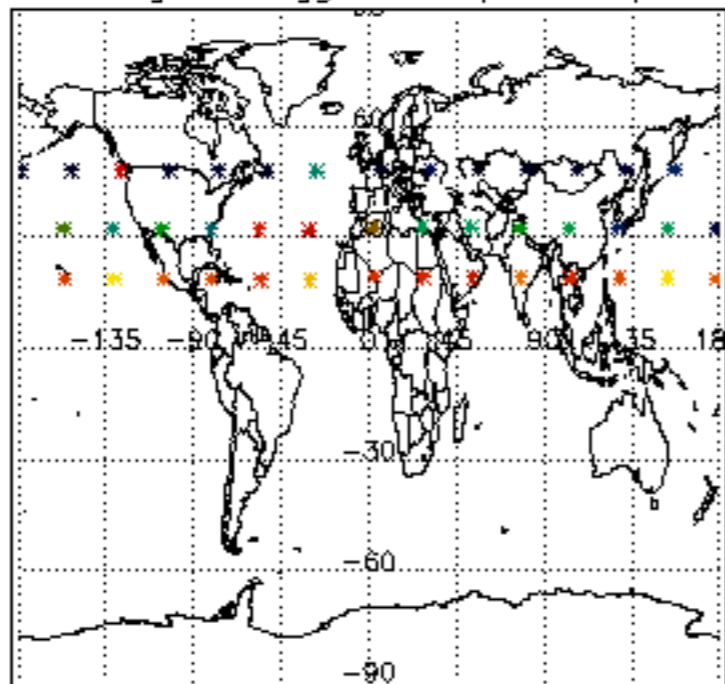
Percentage of flagged data per D3 profile



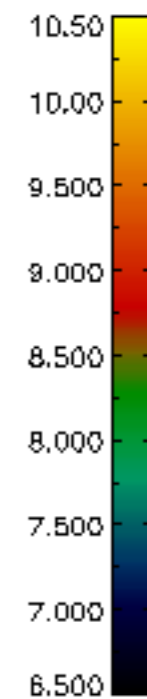
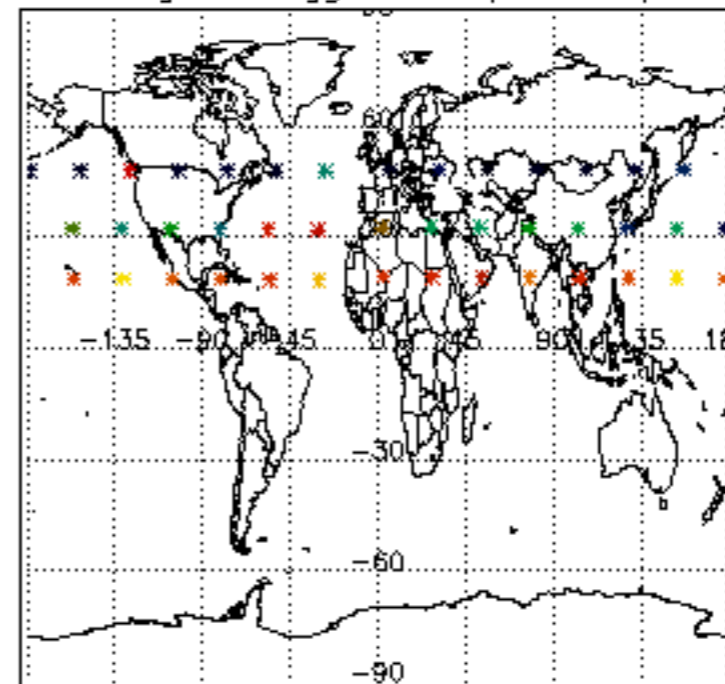
Percentage of flagged data per H2O profile

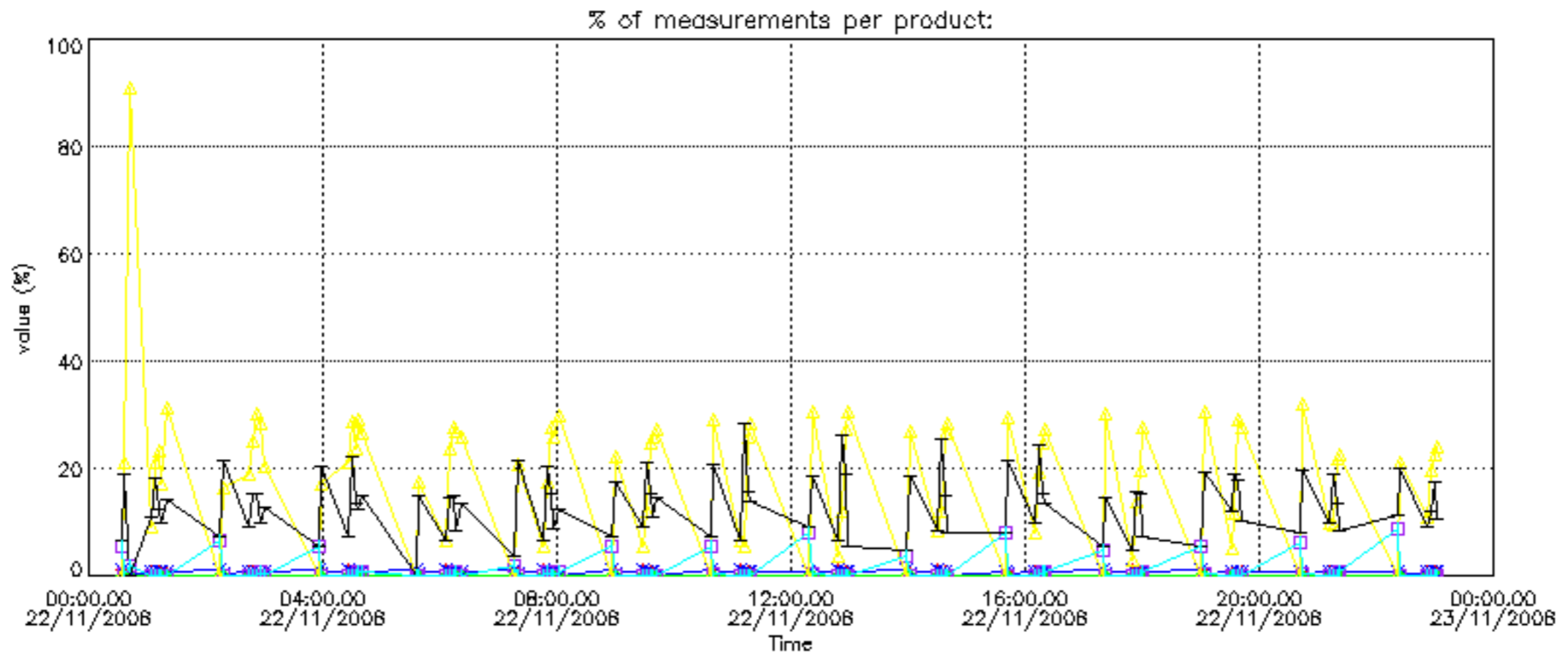


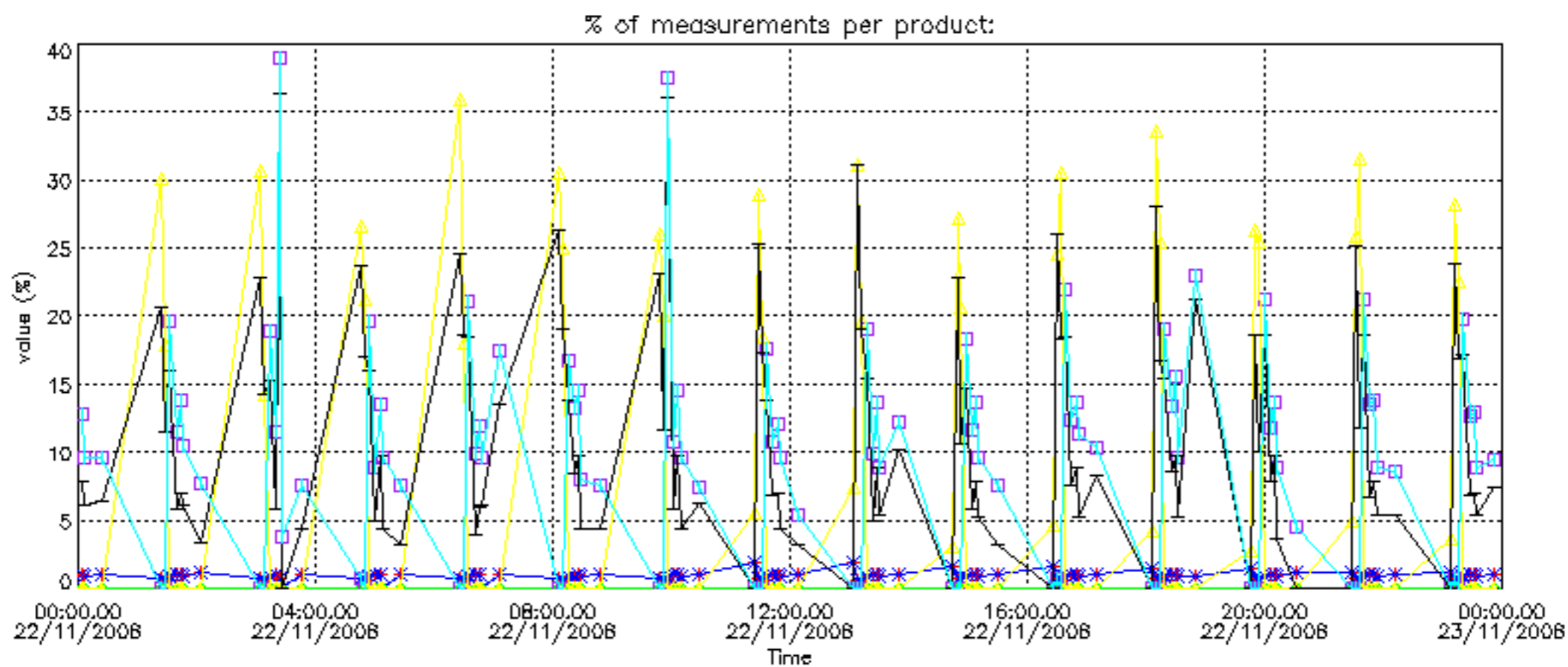
Percentage of flagged data per NO2 profile



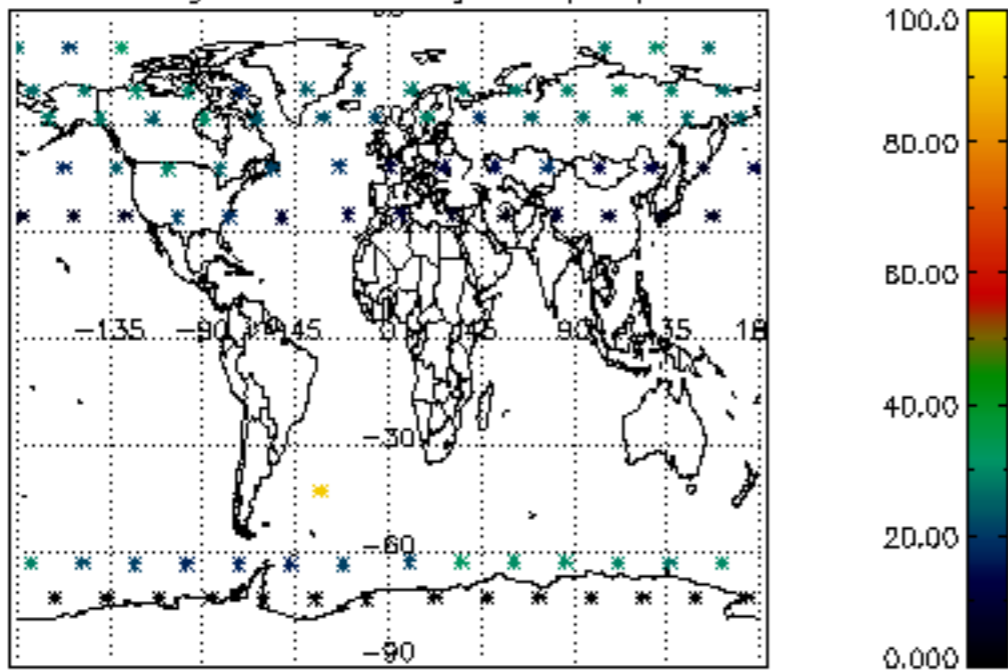
Percentage of flagged data per NO3 profile



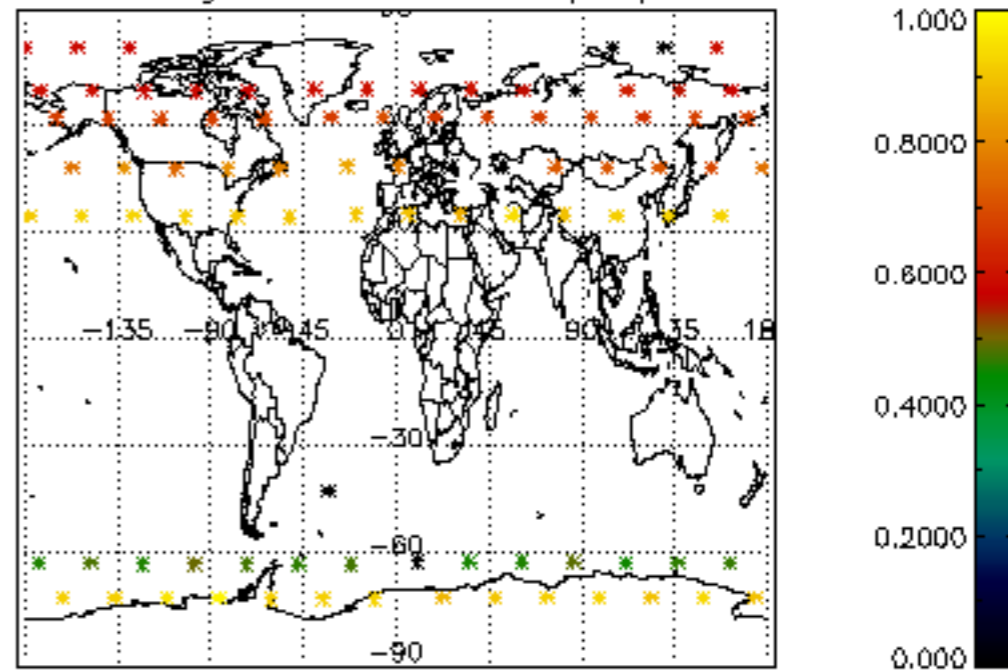




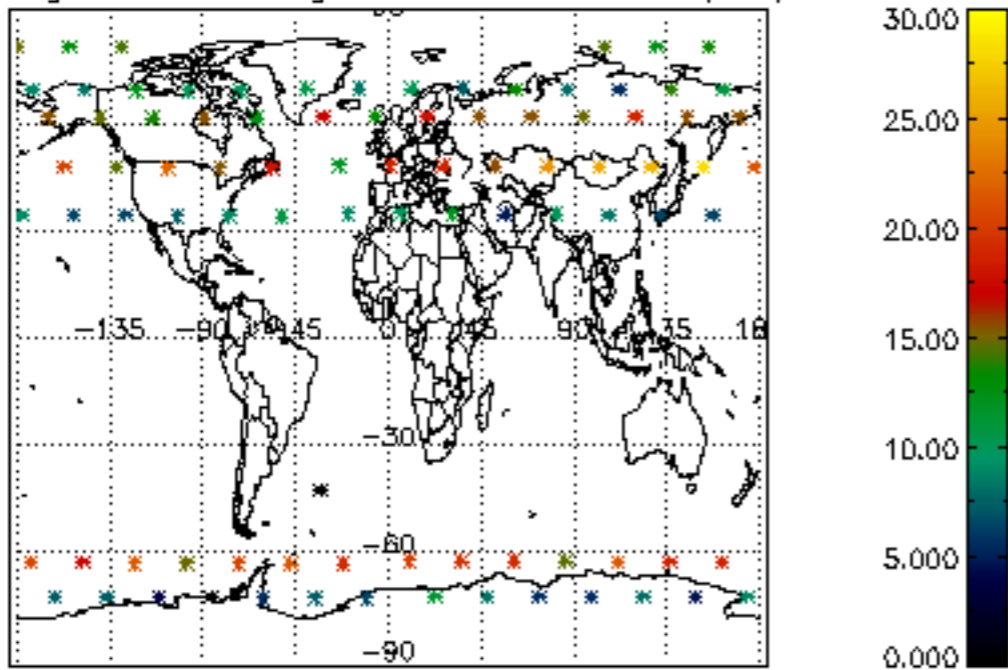
Percentage of cosmic ray hits per profile



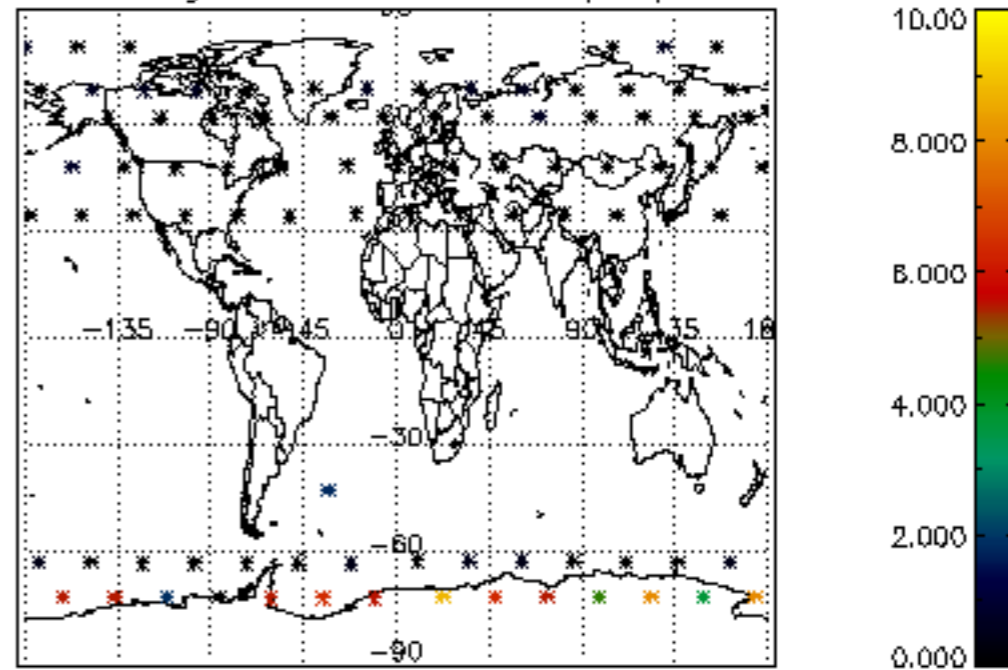
Percentage of datation errors per profile



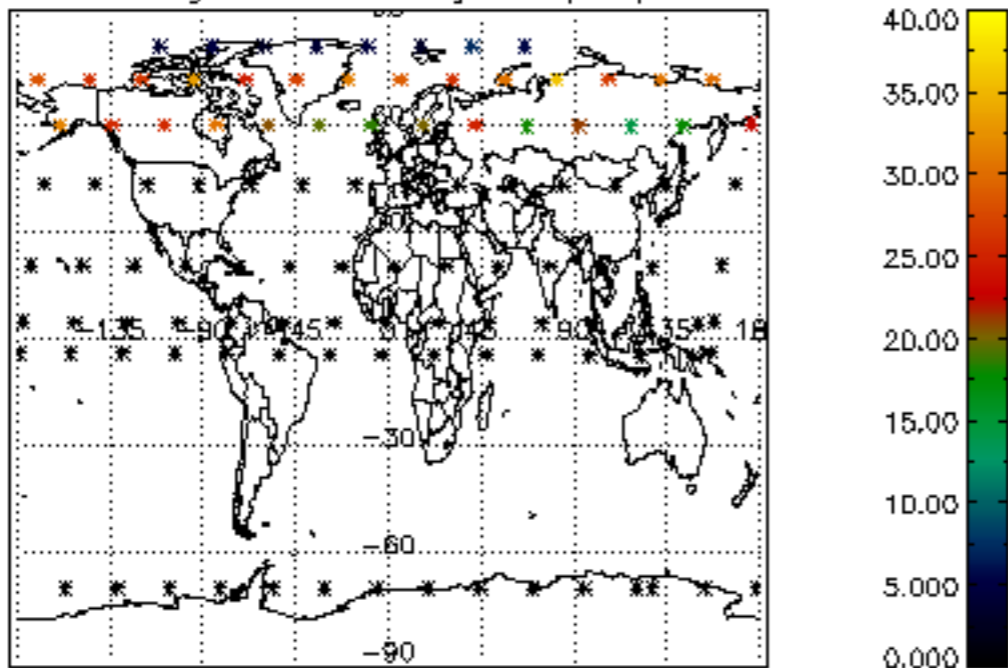
Percentage of star falling outside central band per profile



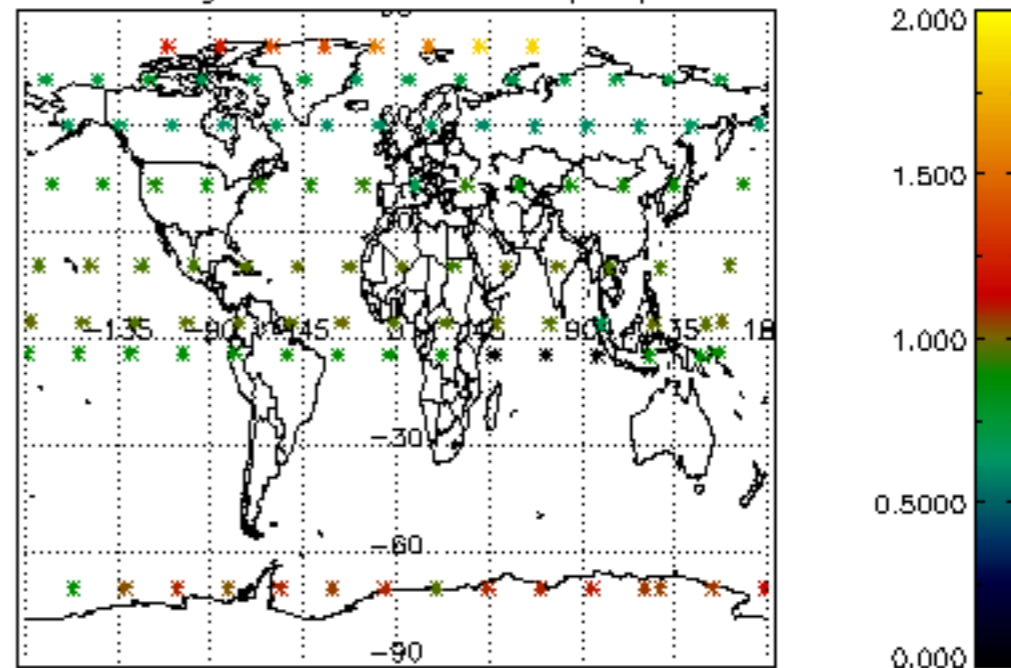
Percentage of saturation errors per profile



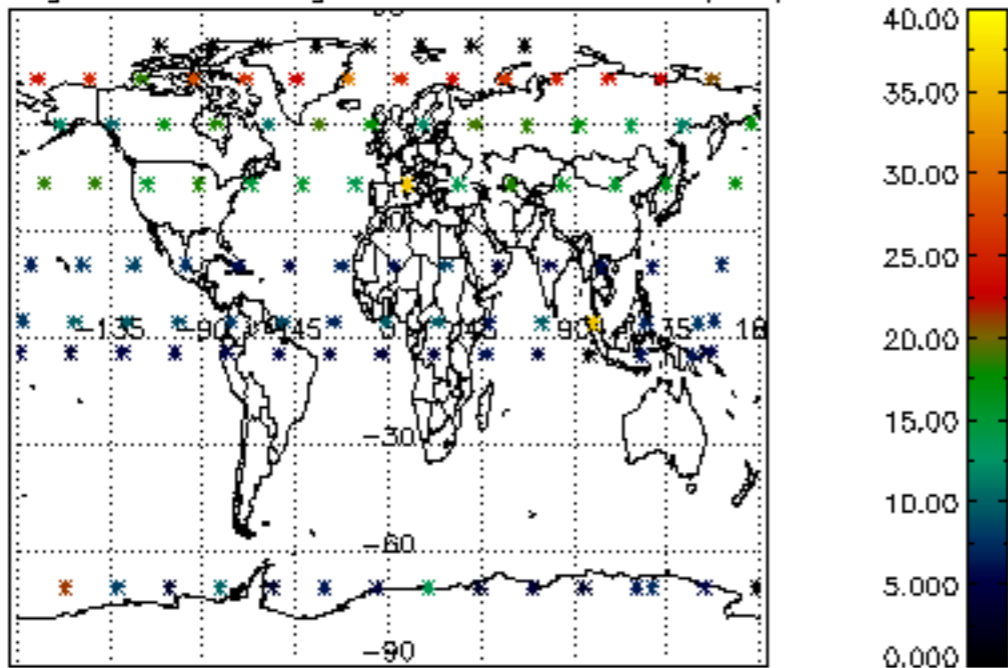
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

