

# 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 | 22APR2013 20:48:49              |
| Data source version       | GOMOS/6.01                      |
| Start time of products    | 16-06-2007 (16JUN2007 00:00:00) |
| Stop time of products     | 17-06-2007 (17JUN2007 00:00:00) |
| Store outputs in DB       | Yes                             |
| Nb of level 2 prods       | 259                             |
| 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__2PRFIN20070616_000210_000000402059_00059_27668_0082.N1 | 16-JUN-2007 00:02:10 | Bright        | 40.000   | 130     | 23Bet Dra | 2.7990   | 5800.0    | 80      | 27668 | No          |
| 2  | GOM_NL__2PRFIN20070616_000342_000000372059_00059_27668_0083.N1 | 16-JUN-2007 00:03:42 | Bright        | 37.000   | 119     | 14Eta Dra | 2.7270   | 4700.0    | 74      | 27668 | No          |
| 3  | GOM_NL__2PRFIN20070616_001900_000000642059_00059_27668_0084.N1 | 16-JUN-2007 00:19:00 | Bright        | 64.000   | 74      | 11Bet Cas | 2.2680   | 6600.0    | 128     | 27668 | No          |
| 4  | GOM_NL__2PRFIN20070616_002022_000000562059_00059_27668_0085.N1 | 16-JUN-2007 00:20:22 | Bright        | 56.000   | 68      | 18Alp Cas | 2.2250   | 4500.0    | 112     | 27668 | No          |
| 5  | GOM_NL__2PRFIN20070616_002530_000000572059_00059_27668_0086.N1 | 16-JUN-2007 00:25:30 | Bright        | 57.000   | 73      | 57Gam1And | 2.2600   | 13100.    | 114     | 27668 | No          |
| 6  | GOM_NL__2PRFIN20070616_002751_000000412059_00059_27668_0087.N1 | 16-JUN-2007 00:27:51 | Twi_and_stray | 41.000   | 53      | 43Bet And | 2.0480   | 3300.0    | 82      | 27668 | No          |
| 7  | GOM_NL__2PRFIN20070616_003120_000000482059_00059_27668_0088.N1 | 16-JUN-2007 00:31:20 | Twilight      | 48.000   | 50      | 13Alp Ari | 2.0070   | 4250.0    | 96      | 27668 | No          |
| 8  | GOM_NL__2PRFIN20070616_004659_000000612059_00059_27668_0089.N1 | 16-JUN-2007 00:46:59 | Dark          | 60.500   | 52      | 16Bet Cet | 2.0370   | 4500.0    | 121     | 27668 | No          |
| 9  | GOM_NL__2PRFIN20070616_005313_000000452059_00059_27668_0090.N1 | 16-JUN-2007 00:53:13 | Dark          | 44.500   | 84      | Alp Phe   | 2.3970   | 4500.0    | 89      | 27668 | No          |
| 10 | GOM_NL__2PRFIN20070616_005925_000000662059_00060_27669_0085.N1 | 16-JUN-2007 00:59:25 | Dark          | 65.500   | 63      | Bet Gru   | 2.1500   | 2800.0    | 131     | 27669 | No          |
| 11 | GOM_NL__2PRFIN20070616_010128_000000482059_00060_27669_0086.N1 | 16-JUN-2007 01:01:28 | Dark          | 48.000   | 31      | Alp Gru   | 1.7340   | 15200.    | 96      | 27669 | No          |
| 12 | GOM_NL__2PRFIN20070616_010520_000000412059_00060_27669_0087.N1 | 16-JUN-2007 01:05:20 | Straylight    | 41.000   | 45      | Alp Pav   | 1.9400   | 26000.    | 82      | 27669 | No          |
| 13 | GOM_NL__2PRFIN20070616_011330_000000422059_00060_27669_0088.N1 | 16-JUN-2007 01:13:30 | Twi_and_stray | 42.000   | 40      | The Sco   | 1.8590   | 7100.0    | 84      | 27669 | No          |
| 14 | GOM_NL__2PRFIN20070616_011513_000000422059_00060_27669_0089.N1 | 16-JUN-2007 01:15:13 | Twi_and_stray | 42.000   | 25      | 35Lam Sco | 1.6200   | 28000.    | 84      | 27669 | No          |
| 15 | GOM_NL__2PRFIN20070616_011637_000000462059_00060_27669_0090.N1 | 16-JUN-2007 01:16:37 | Twi_and_stray | 46.000   | 167     | 10Gam2Sgr | 2.9840   | 4500.0    | 92      | 27669 | No          |
| 16 | GOM_NL__2PRFIN20070616_012149_000000392059_00060_27669_0091.N1 | 16-JUN-2007 01:21:49 | Bright        | 39.000   | 86      | 35Eta Oph | 2.4300   | 10200.    | 78      | 27669 | No          |
| 17 | GOM_NL__2PRFIN20070616_012334_000000372059_00060_27669_0092.N1 | 16-JUN-2007 01:23:34 | Bright        | 36.500   | 98      | 13Zet Oph | 2.5710   | 30000.    | 73      | 27669 | No          |
| 18 | GOM_NL__2PRFIN20070616_012824_000000442059_00060_27669_0093.N1 | 16-JUN-2007 01:28:24 | Bright        | 43.500   | 126     | 60Bet Oph | 2.7700   | 4250.0    | 87      | 27669 | No          |
| 19 | GOM_NL__2PRFIN20070616_013056_000000432059_00060_27669_0094.N1 | 16-JUN-2007 01:30:56 | Bright        | 43.000   | 59      | 55Alp Oph | 2.0800   | 8900.0    | 86      | 27669 | No          |
| 20 | GOM_NL__2PRFIN20070616_013253_000000362059_00060_27669_0095.N1 | 16-JUN-2007 01:32:53 | Bright        | 36.000   | 127     | 27Bet Her | 2.7810   | 4700.0    | 72      | 27669 | No          |
| 21 | GOM_NL__2PRFIN20070616_013556_000000382059_00060_27669_0096.N1 | 16-JUN-2007 01:35:56 | Bright        | 38.000   | 133     | 40Zet Her | 2.8070   | 6000.0    | 76      | 27669 | No          |
| 22 | GOM_NL__2PRFIN20070616_014245_000000412059_00060_27669_0097.N1 | 16-JUN-2007 01:42:45 | Bright        | 40.500   | 130     | 23Bet Dra | 2.7990   | 5800.0    | 81      | 27669 | No          |
| 23 | GOM_NL__2PRFIN20070616_014418_000000352059_00060_27669_0098.N1 | 16-JUN-2007 01:44:18 | Bright        | 35.000   | 119     | 14Eta Dra | 2.7270   | 4700.0    | 70      | 27669 | No          |
| 24 | GOM_NL__2PRFIN20070616_015935_000000422059_00060_27669_0099.N1 | 16-JUN-2007 01:59:35 | Bright        | 41.500   | 74      | 11Bet Cas | 2.2680   | 6600.0    | 83      | 27669 | No          |
| 25 | GOM_NL__2PRFIN20070616_020058_000000432059_00060_27669_0100.N1 | 16-JUN-2007 02:00:58 | Bright        | 43.000   | 68      | 18Alp Cas | 2.2250   | 4500.0    | 86      | 27669 | No          |
| 26 | GOM_NL__2PRFIN20070616_020606_000000392059_00060_27669_0101.N1 | 16-JUN-2007 02:06:06 | Bright        | 38.500   | 73      | 57Gam1And | 2.2600   | 13100.    | 77      | 27669 | No          |
| 27 | GOM_NL__2PRFIN20070616_020827_000000412059_00060_27669_0102.N1 | 16-JUN-2007 02:08:27 | Twi_and_stray | 41.000   | 53      | 43Bet And | 2.0480   | 3300.0    | 82      | 27669 | No          |
| 28 | GOM_NL__2PRFIN20070616_021156_000000492059_00060_27669_0103.N1 | 16-JUN-2007 02:11:56 | Twilight      | 48.500   | 50      | 13Alp Ari | 2.0070   | 4250.0    | 97      | 27669 | No          |
| 29 | GOM_NL__2PRFIN20070616_022736_000000562059_00060_27669_0104.N1 | 16-JUN-2007 02:27:36 | Dark          | 55.500   | 52      | 16Bet Cet | 2.0370   | 4500.0    | 111     | 27669 | No          |
| 30 | GOM_NL__2PRFIN20070616_023350_000000442059_00060_27669_0105.N1 | 16-JUN-2007 02:33:50 | Dark          | 44.000   | 84      | Alp Phe   | 2.3970   | 4500.0    | 88      | 27669 | No          |
| 31 | GOM_NL__2PRFIN20070616_024002_000000472059_00061_27670_0102.N1 | 16-JUN-2007 02:40:02 | Dark          | 47.000   | 63      | Bet Gru   | 2.1500   | 2800.0    | 94      | 27670 | No          |
| 32 | GOM_NL__2PRFIN20070616_024205_000000502059_00061_27670_0103.N1 | 16-JUN-2007 02:42:05 | Dark          | 49.500   | 31      | Alp Gru   | 1.7340   | 15200.    | 99      | 27670 | No          |
| 33 | GOM_NL__2PRFIN20070616_024557_000000452059_00061_27670_0104.N1 | 16-JUN-2007 02:45:57 | Straylight    | 44.500   | 45      | Alp Pav   | 1.9400   | 26000.    | 89      | 27670 | No          |
| 34 | GOM_NL__2PRFIN20070616_025407_000000462059_00061_27670_0105.N1 | 16-JUN-2007 02:54:07 | Twi_and_stray | 46.000   | 40      | The Sco   | 1.8590   | 7100.0    | 92      | 27670 | No          |
| 35 | GOM_NL__2PRFIN20070616_025550_000000412059_00061_27670_0106.N1 | 16-JUN-2007 02:55:50 | Twi_and_stray | 40.500   | 25      | 35Lam Sco | 1.6200   | 28000.    | 81      | 27670 | No          |
| 36 | GOM_NL__2PRFIN20070616_025713_000000452059_00061_27670_0107.N1 | 16-JUN-2007 02:57:13 | Twi_and_stray | 44.500   | 167     | 10Gam2Sgr | 2.9840   | 4500.0    | 89      | 27670 | No          |
| 37 | GOM_NL__2PRFIN20070616_030226_000000392059_00061_27670_0108.N1 | 16-JUN-2007 03:02:26 | Bright        | 38.500   | 86      | 35Eta Oph | 2.4300   | 10200.    | 77      | 27670 | No          |
| 38 | GOM_NL__2PRFIN20070616_030410_000000372059_00061_27670_0109.N1 | 16-JUN-2007 03:04:10 | Bright        | 37.000   | 98      | 13Zet Oph | 2.5710   | 30000.    | 74      | 27670 | No          |
| 39 | GOM_NL__2PRFIN20070616_030900_000000432059_00061_27670_0110.N1 | 16-JUN-2007 03:09:00 | Bright        | 43.000   | 126     | 60Bet Oph | 2.7700   | 4250.0    | 86      | 27670 | No          |
| 40 | GOM_NL__2PRFIN20070616_031131_000000442059_00061_27670_0111.N1 | 16-JUN-2007 03:11:31 | Bright        | 43.500   | 59      | 55Alp Oph | 2.0800   | 8900.0    | 87      | 27670 | No          |
| 41 | GOM_NL__2PRFIN20070616_031329_000000382059_00061_27670_0112.N1 | 16-JUN-2007 03:13:29 | Bright        | 37.500   | 127     | 27Bet Her | 2.7810   | 4700.0    | 75      | 27670 | No          |
| 42 | GOM_NL__2PRFIN20070616_031632_000000372059_00061_27670_0113.N1 | 16-JUN-2007 03:16:32 | Bright        | 37.000   | 133     | 40Zet Her | 2.8070   | 6000.0    | 74      | 27670 | No          |





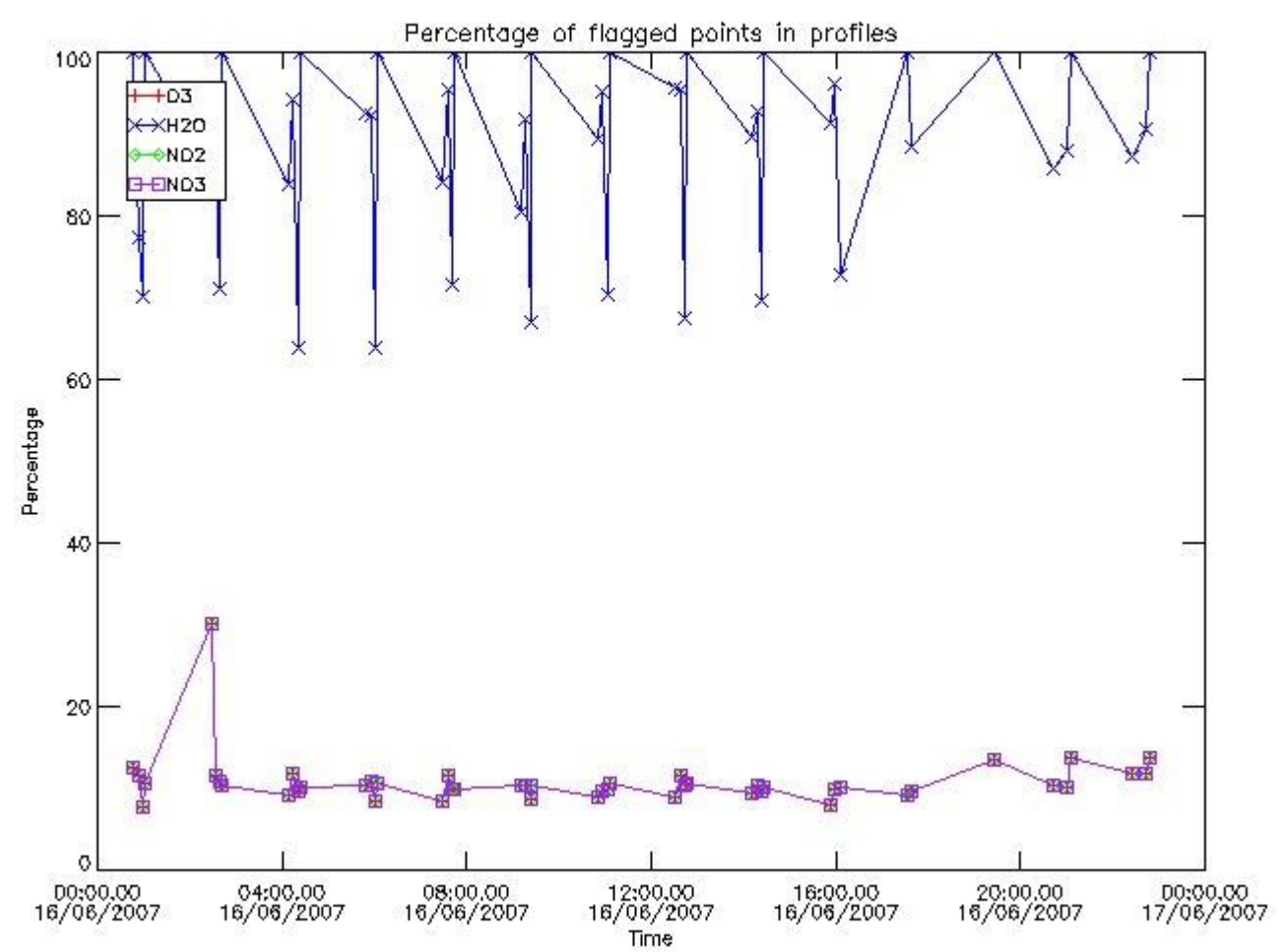


|     |  |                      |               |        |     |           |         |        |     |       |    |
|-----|--|----------------------|---------------|--------|-----|-----------|---------|--------|-----|-------|----|
| 220 | GOM_NL__2PRFIN20070616_201052_000000382059_00071_27680_0338.N1 | 16-JUN-2007 20:10:52 | Bright        | 38.000 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 76  | 27680 | No |
| 221 | GOM_NL__2PRFIN20070616_201421_000000372059_00071_27680_0339.N1 | 16-JUN-2007 20:14:21 | Bright        | 37.000 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 74  | 27680 | No |
| 222 | GOM_NL__2PRFIN20070616_201858_000000362059_00071_27680_0340.N1 | 16-JUN-2007 20:18:58 | Bright        | 36.000 | 49  | 1Alp UMi  | 1.9900  | 6300.0 | 72  | 27680 | No |
| 223 | GOM_NL__2PRFIN20070616_202914_000000332059_00071_27680_0341.N1 | 16-JUN-2007 20:29:14 | Bright        | 33.000 | 160 | 23Gam Per | 2.9300  | 4700.0 | 66  | 27680 | No |
| 224 | GOM_NL__2PRFIN20070616_204320_000000492059_00071_27680_0342.N1 | 16-JUN-2007 20:43:20 | Dark          | 49.000 | 94  | 92Alp Cet | 2.5260  | 3100.0 | 98  | 27680 | No |
| 225 | GOM_NL__2PRFIN20070616_210115_000000502059_00071_27680_0343.N1 | 16-JUN-2007 21:01:15 | Dark          | 50.000 | 9   | Alp Eri   | 0.45300 | 24000. | 100 | 27680 | No |
| 226 | GOM_NL__2PRFIN20070616_210639_000000372059_00072_27681_0330.N1 | 16-JUN-2007 21:06:39 | Dark          | 37.000 | 135 | Bet Hyi   | 2.8200  | 5800.0 | 74  | 27681 | No |
| 227 | GOM_NL__2PRFIN20070616_211738_000000422059_00072_27681_0331.N1 | 16-JUN-2007 21:17:38 | Straylight    | 42.000 | 141 | Bet Ara   | 2.8400  | 4600.0 | 84  | 27681 | No |
| 228 | GOM_NL__2PRFIN20070616_211900_000000372059_00072_27681_0332.N1 | 16-JUN-2007 21:19:00 | Straylight    | 37.000 | 147 | Alp Ara   | 2.8770  | 26000. | 74  | 27681 | No |
| 229 | GOM_NL__2PRFIN20070616_212045_000000432059_00072_27681_0333.N1 | 16-JUN-2007 21:20:45 | Twi_and_stray | 43.000 | 40  | The Sco   | 1.8590  | 7100.0 | 86  | 27681 | No |
| 230 | GOM_NL__2PRFIN20070616_212228_000000402059_00072_27681_0334.N1 | 16-JUN-2007 21:22:28 | Twi_and_stray | 40.000 | 25  | 35Lam Sco | 1.6200  | 28000. | 80  | 27681 | No |
| 231 | GOM_NL__2PRFIN20070616_212354_000000402059_00072_27681_0335.N1 | 16-JUN-2007 21:23:54 | Twi_and_stray | 39.500 | 75  | 26Eps Sco | 2.2910  | 4250.0 | 79  | 27681 | No |
| 232 | GOM_NL__2PRFIN20070616_212640_000000362059_00072_27681_0336.N1 | 16-JUN-2007 21:26:40 | Bright        | 36.000 | 156 | 20Sig Sco | 2.9030  | 28000. | 72  | 27681 | No |
| 233 | GOM_NL__2PRFIN20070616_212827_000000362059_00072_27681_0337.N1 | 16-JUN-2007 21:28:27 | Bright        | 35.500 | 97  | 8Bet1Sco  | 2.5610  | 30000. | 71  | 27681 | No |
| 234 | GOM_NL__2PRFIN20070616_213046_000000372059_00072_27681_0338.N1 | 16-JUN-2007 21:30:46 | Bright        | 36.500 | 98  | 13Zet Oph | 2.5710  | 30000. | 73  | 27681 | No |
| 235 | GOM_NL__2PRFIN20070616_213252_000000372059_00072_27681_0339.N1 | 16-JUN-2007 21:32:52 | Bright        | 36.500 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 73  | 27681 | No |
| 236 | GOM_NL__2PRFIN20070616_213555_000000362059_00072_27681_0340.N1 | 16-JUN-2007 21:35:55 | Bright        | 35.500 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 71  | 27681 | No |
| 237 | GOM_NL__2PRFIN20070616_214137_000000342059_00072_27681_0341.N1 | 16-JUN-2007 21:41:37 | Bright        | 34.000 | 67  | 5Alp CrB  | 2.2210  | 11000. | 68  | 27681 | No |
| 238 | GOM_NL__2PRFIN20070616_215128_000000352059_00072_27681_0342.N1 | 16-JUN-2007 21:51:28 | Bright        | 35.000 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 70  | 27681 | No |
| 239 | GOM_NL__2PRFIN20070616_215457_000000372059_00072_27681_0343.N1 | 16-JUN-2007 21:54:57 | Bright        | 37.000 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 74  | 27681 | No |
| 240 | GOM_NL__2PRFIN20070616_215934_000000362059_00072_27681_0344.N1 | 16-JUN-2007 21:59:34 | Bright        | 36.000 | 49  | 1Alp UMi  | 1.9900  | 6300.0 | 72  | 27681 | No |
| 241 | GOM_NL__2PRFIN20070616_220950_000000372059_00072_27681_0345.N1 | 16-JUN-2007 22:09:50 | Bright        | 37.000 | 160 | 23Gam Per | 2.9300  | 4700.0 | 74  | 27681 | No |
| 242 | GOM_NL__2PRFIN20070616_222356_000000432059_00072_27681_0346.N1 | 16-JUN-2007 22:23:56 | Dark          | 43.000 | 94  | 92Alp Cet | 2.5260  | 3100.0 | 86  | 27681 | No |
| 243 | GOM_NL__2PRFIN20070616_224151_000000432059_00072_27681_0347.N1 | 16-JUN-2007 22:41:51 | Dark          | 43.000 | 9   | Alp Eri   | 0.45300 | 24000. | 86  | 27681 | No |
| 244 | GOM_NL__2PRFIN20070616_224715_000000372059_00073_27682_0358.N1 | 16-JUN-2007 22:47:15 | Dark          | 37.000 | 135 | Bet Hyi   | 2.8200  | 5800.0 | 74  | 27682 | No |
| 245 | GOM_NL__2PRFIN20070616_225814_000000382059_00073_27682_0359.N1 | 16-JUN-2007 22:58:14 | Straylight    | 38.000 | 141 | Bet Ara   | 2.8400  | 4600.0 | 76  | 27682 | No |
| 246 | GOM_NL__2PRFIN20070616_225936_000000392059_00073_27682_0360.N1 | 16-JUN-2007 22:59:36 | Straylight    | 38.500 | 147 | Alp Ara   | 2.8770  | 26000. | 77  | 27682 | No |
| 247 | GOM_NL__2PRFIN20070616_230121_000000432059_00073_27682_0361.N1 | 16-JUN-2007 23:01:21 | Twi_and_stray | 43.000 | 40  | The Sco   | 1.8590  | 7100.0 | 86  | 27682 | No |
| 248 | GOM_NL__2PRFIN20070616_230304_000000432059_00073_27682_0362.N1 | 16-JUN-2007 23:03:04 | Twi_and_stray | 43.000 | 25  | 35Lam Sco | 1.6200  | 28000. | 86  | 27682 | No |
| 249 | GOM_NL__2PRFIN20070616_230430_000000432059_00073_27682_0363.N1 | 16-JUN-2007 23:04:30 | Twi_and_stray | 42.500 | 75  | 26Eps Sco | 2.2910  | 4250.0 | 85  | 27682 | No |
| 250 | GOM_NL__2PRFIN20070616_230716_000000362059_00073_27682_0364.N1 | 16-JUN-2007 23:07:16 | Bright        | 35.500 | 156 | 20Sig Sco | 2.9030  | 28000. | 71  | 27682 | No |
| 251 | GOM_NL__2PRFIN20070616_230902_000000362059_00073_27682_0365.N1 | 16-JUN-2007 23:09:02 | Bright        | 35.500 | 97  | 8Bet1Sco  | 2.5610  | 30000. | 71  | 27682 | No |
| 252 | GOM_NL__2PRFIN20070616_231122_000000372059_00073_27682_0366.N1 | 16-JUN-2007 23:11:22 | Bright        | 37.000 | 98  | 13Zet Oph | 2.5710  | 30000. | 74  | 27682 | No |
| 253 | GOM_NL__2PRFIN20070616_231328_000000362059_00073_27682_0367.N1 | 16-JUN-2007 23:13:28 | Bright        | 36.000 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 72  | 27682 | No |
| 254 | GOM_NL__2PRFIN20070616_231631_000000362059_00073_27682_0368.N1 | 16-JUN-2007 23:16:31 | Bright        | 36.000 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 72  | 27682 | No |
| 255 | GOM_NL__2PRFIN20070616_232213_000000372059_00073_27682_0369.N1 | 16-JUN-2007 23:22:13 | Bright        | 36.500 | 67  | 5Alp CrB  | 2.2210  | 11000. | 73  | 27682 | No |
| 256 | GOM_NL__2PRFIN20070616_233203_000000372059_00073_27682_0370.N1 | 16-JUN-2007 23:32:03 | Bright        | 36.500 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 73  | 27682 | No |
| 257 | GOM_NL__2PRFIN20070616_233533_000000342059_00073_27682_0371.N1 | 16-JUN-2007 23:35:33 | Bright        | 34.000 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 68  | 27682 | No |
| 258 | GOM_NL__2PRFIN20070616_234010_000000342059_00073_27682_0372.N1 | 16-JUN-2007 23:40:10 | Bright        | 34.000 | 49  | 1Alp UMi  | 1.9900  | 6300.0 | 68  | 27682 | No |
| 259 | GOM_NL__2PRFIN20070616_235026_000000402059_00073_27682_0373.N1 | 16-JUN-2007 23:50:26 | Bright        | 40.000 | 160 | 23Gam Per | 2.9300  | 4700.0 | 80  | 27682 | No |

### 3. Quality information per product

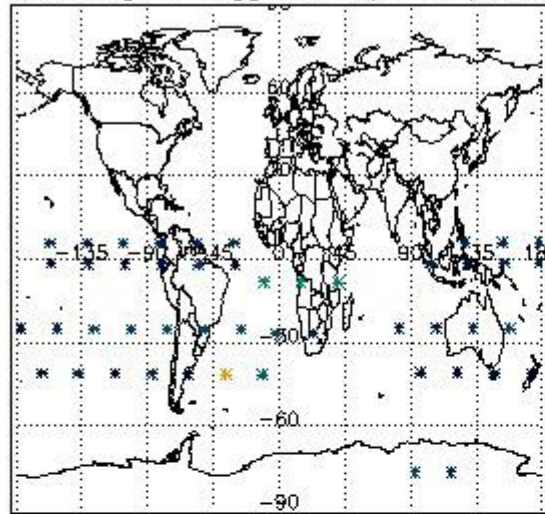
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

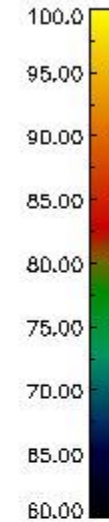
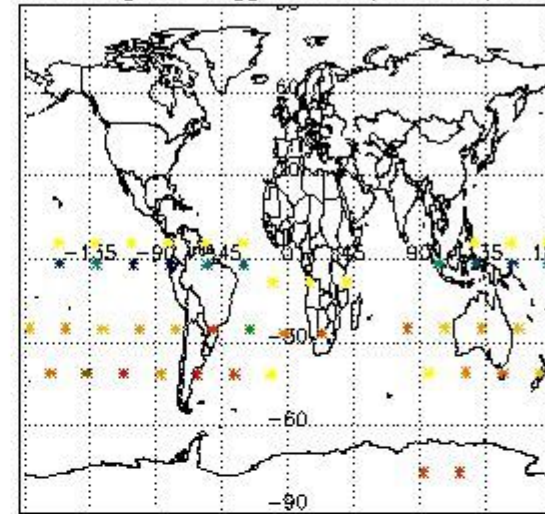


3.2 Plot quality information per product (world map)

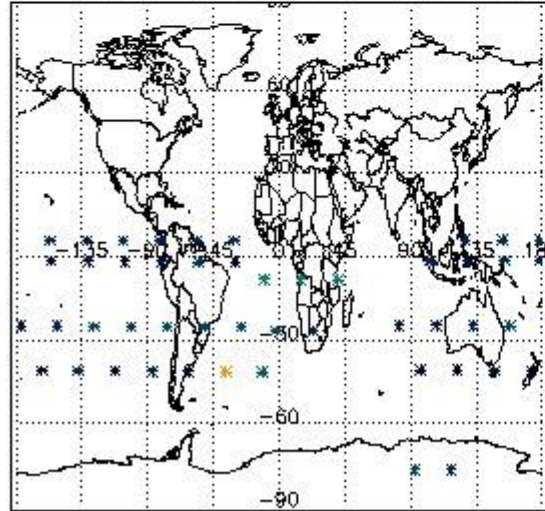
Percentage of flagged data per O3 profile



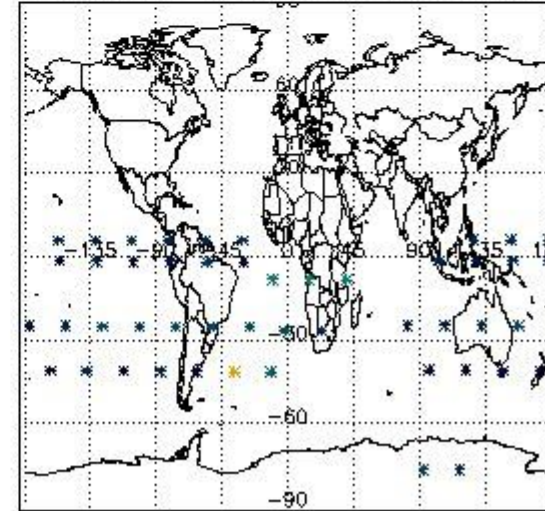
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



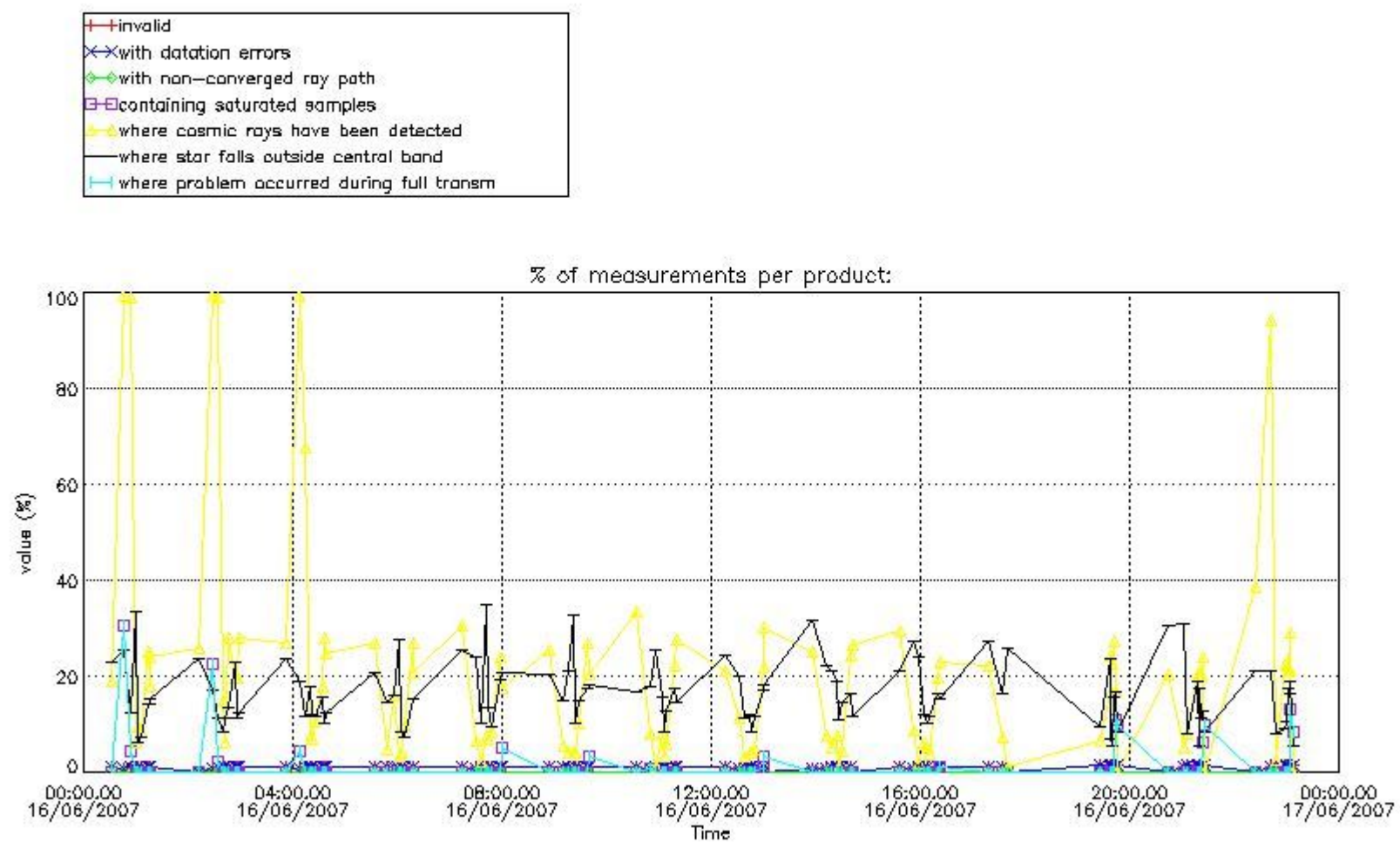
#### 4. Level 1 quality information per product

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.

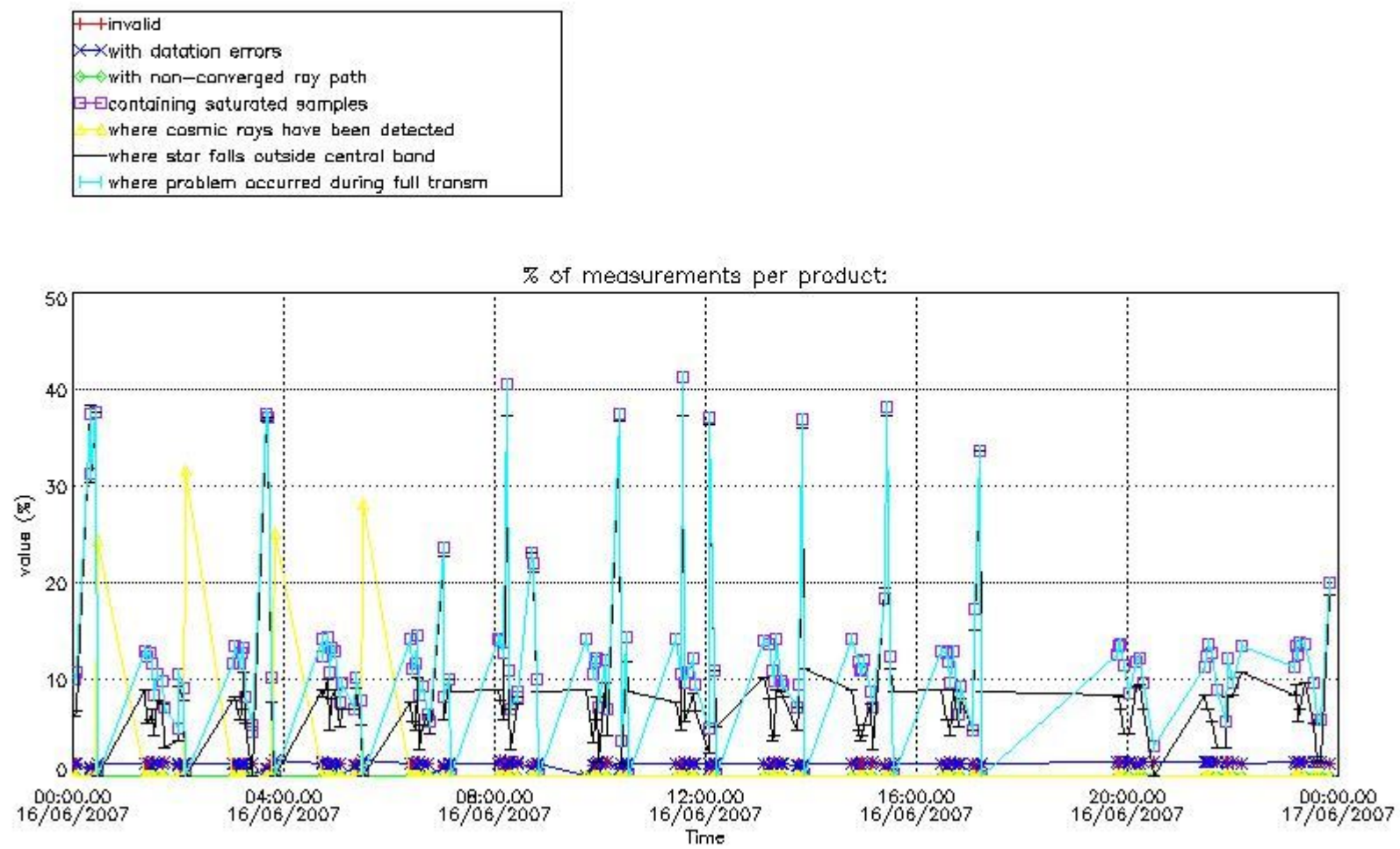
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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





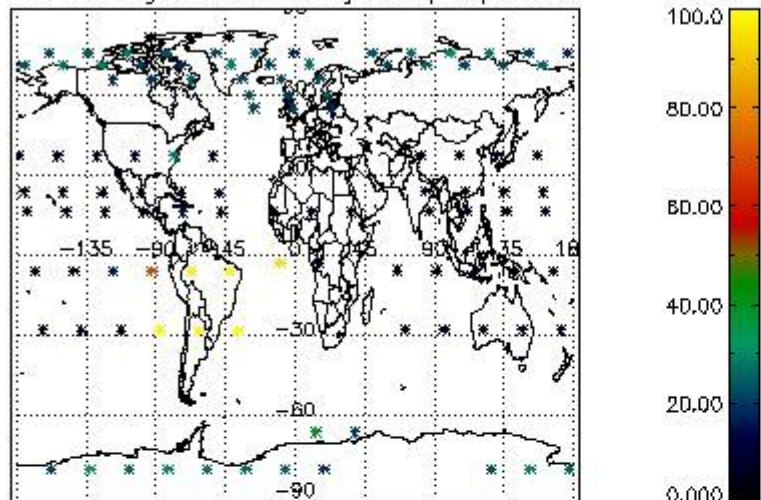
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



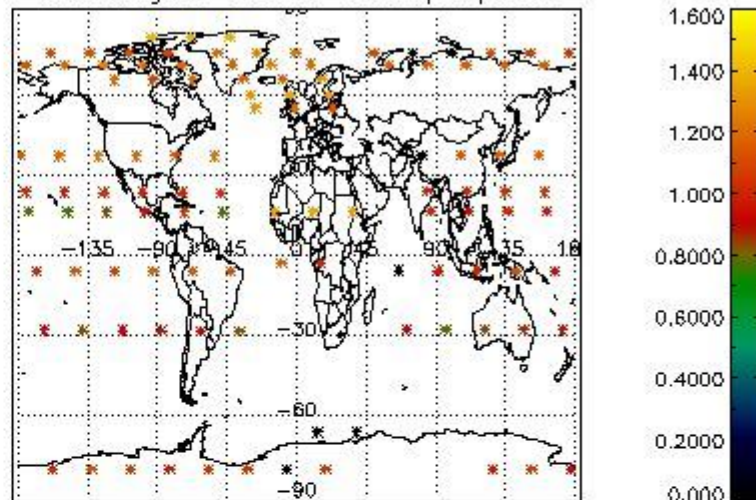
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

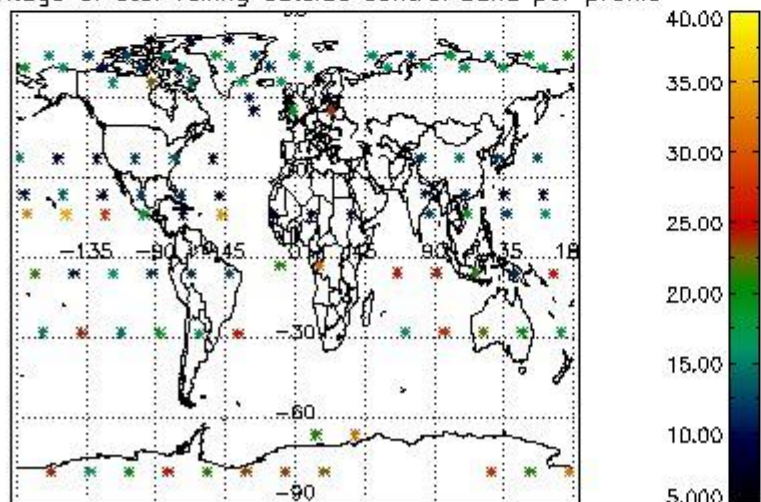
Percentage of cosmic ray hits per profile



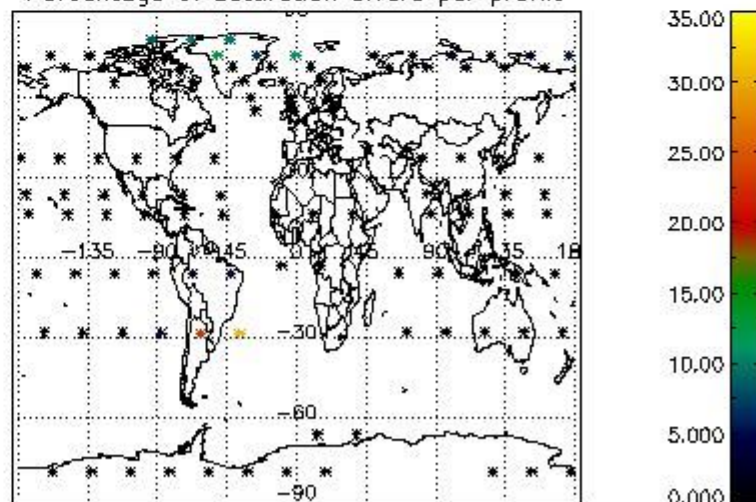
Percentage of datation errors per profile



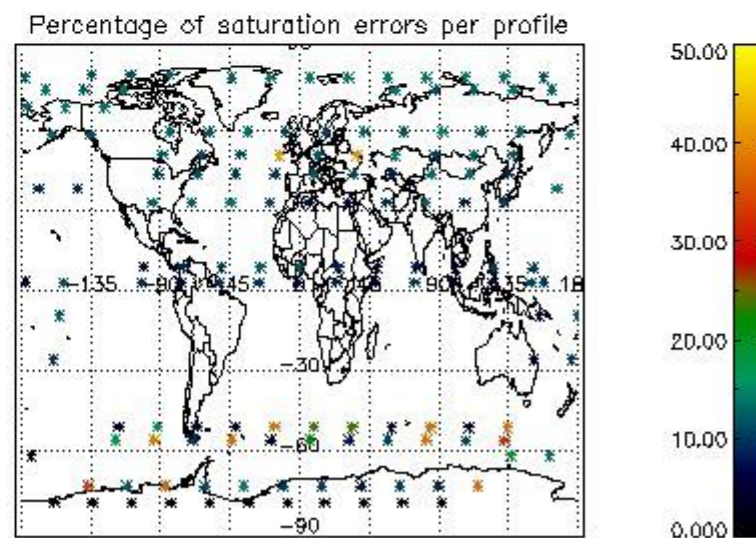
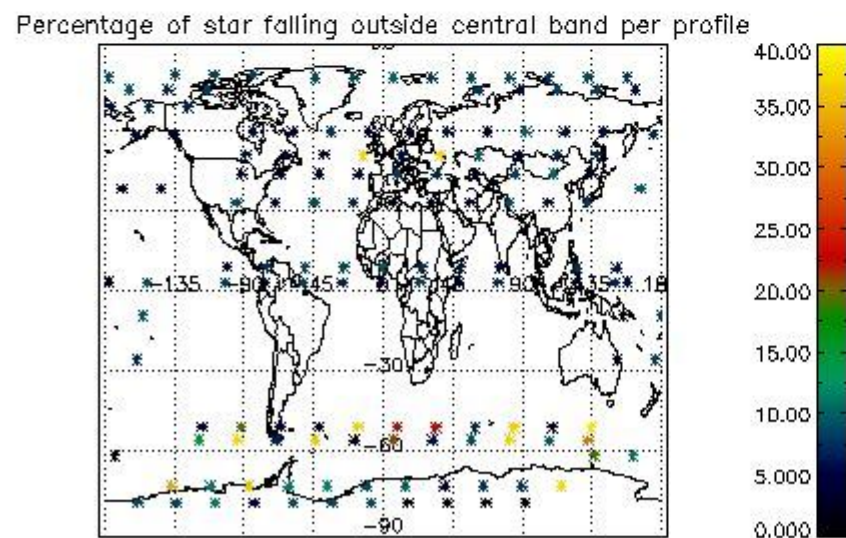
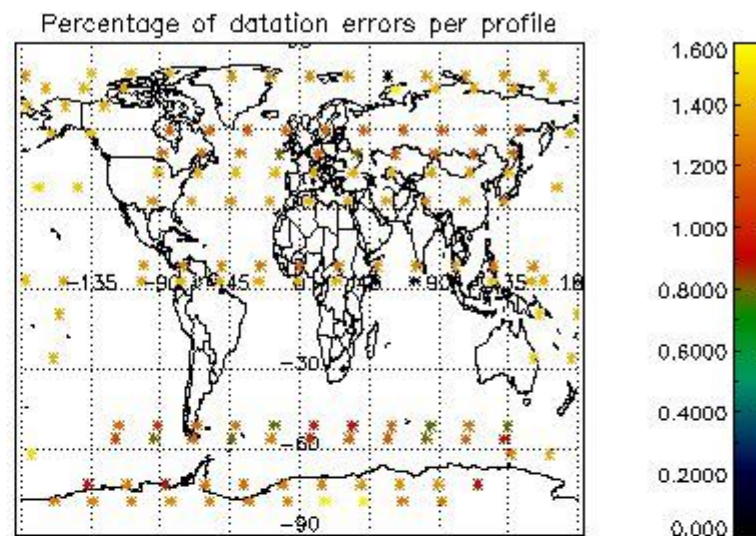
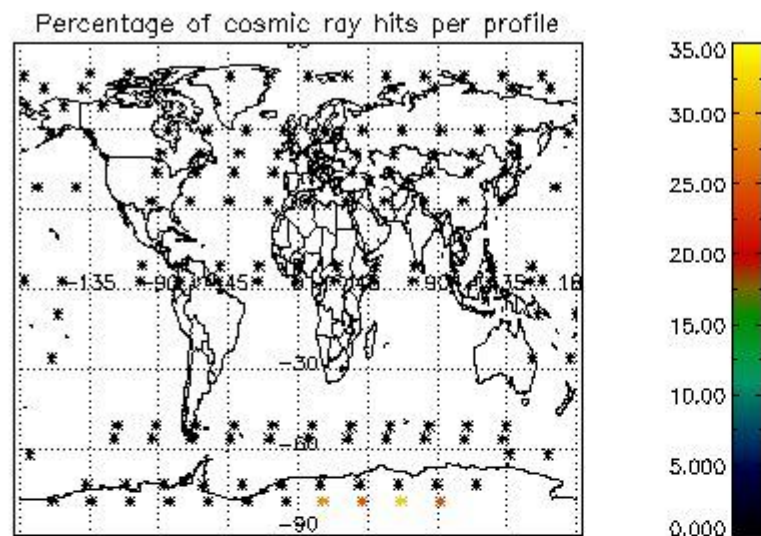
Percentage of star falling outside central band per profile



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

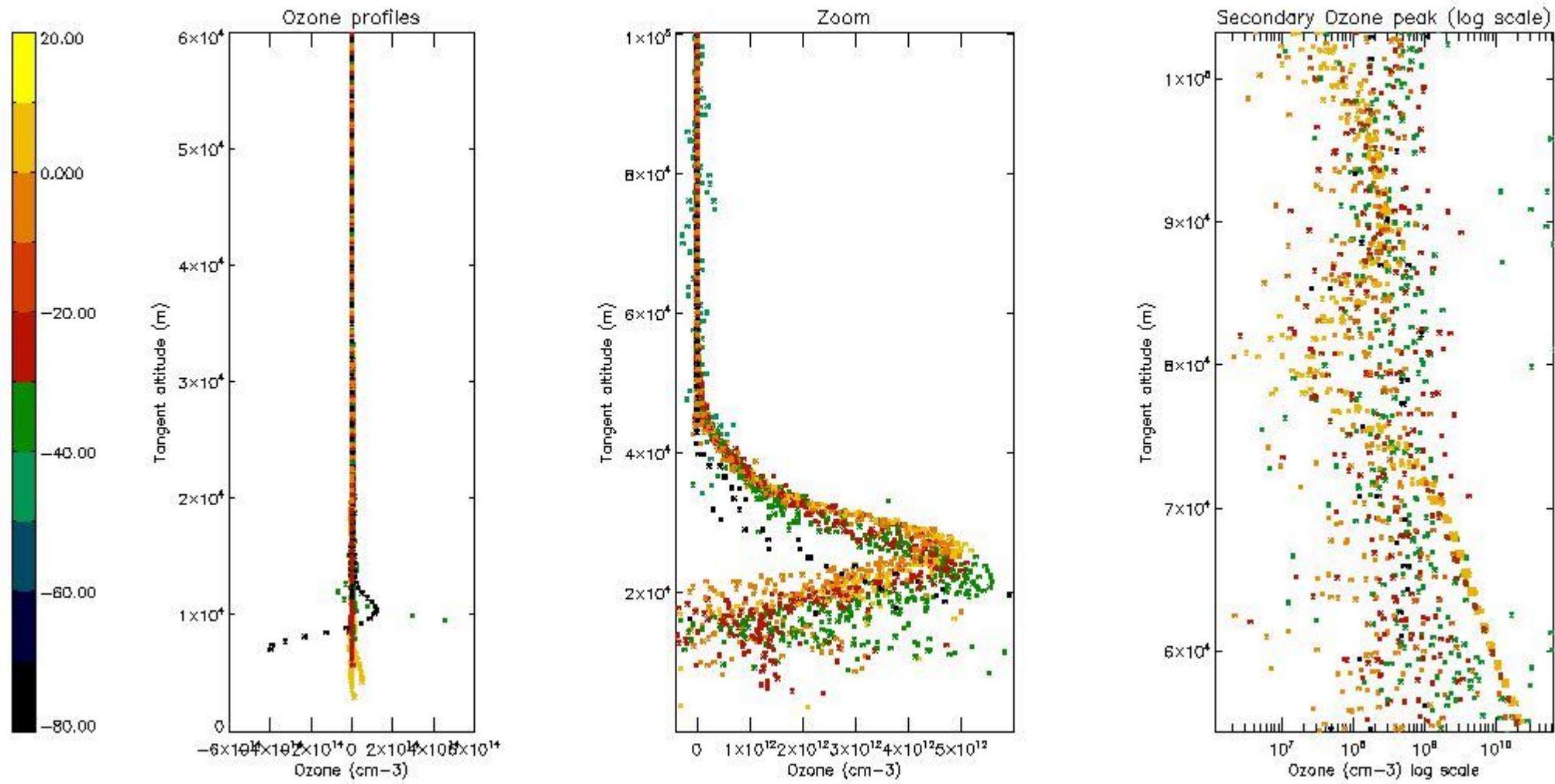
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

| Criteria | % of total production |
|----------|-----------------------|
| All STD  | 23                    |
| STD < 20 | 8                     |

|          |   |
|----------|---|
| STD < 10 | 5 |
| STD < 5  | 3 |

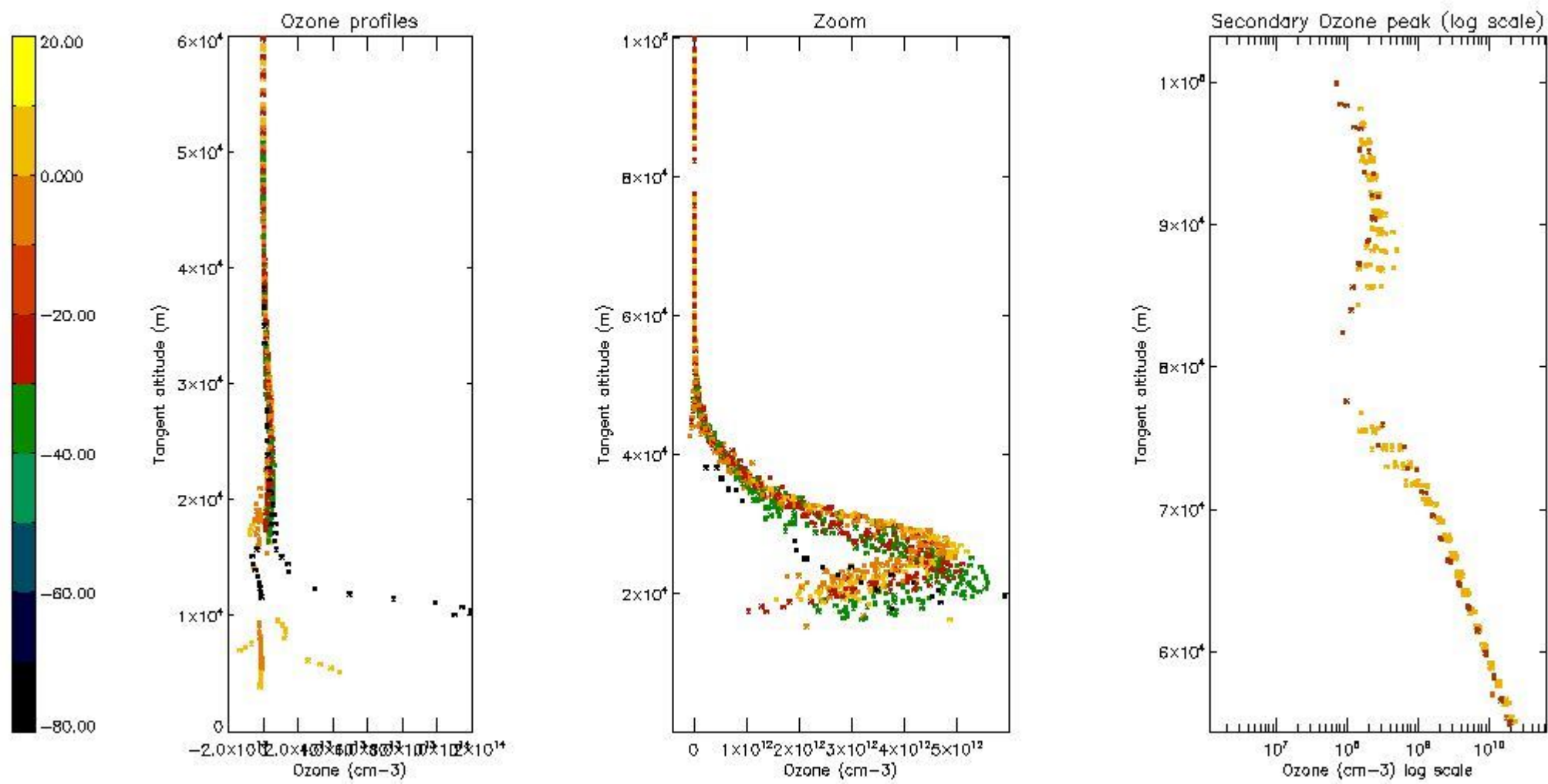
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



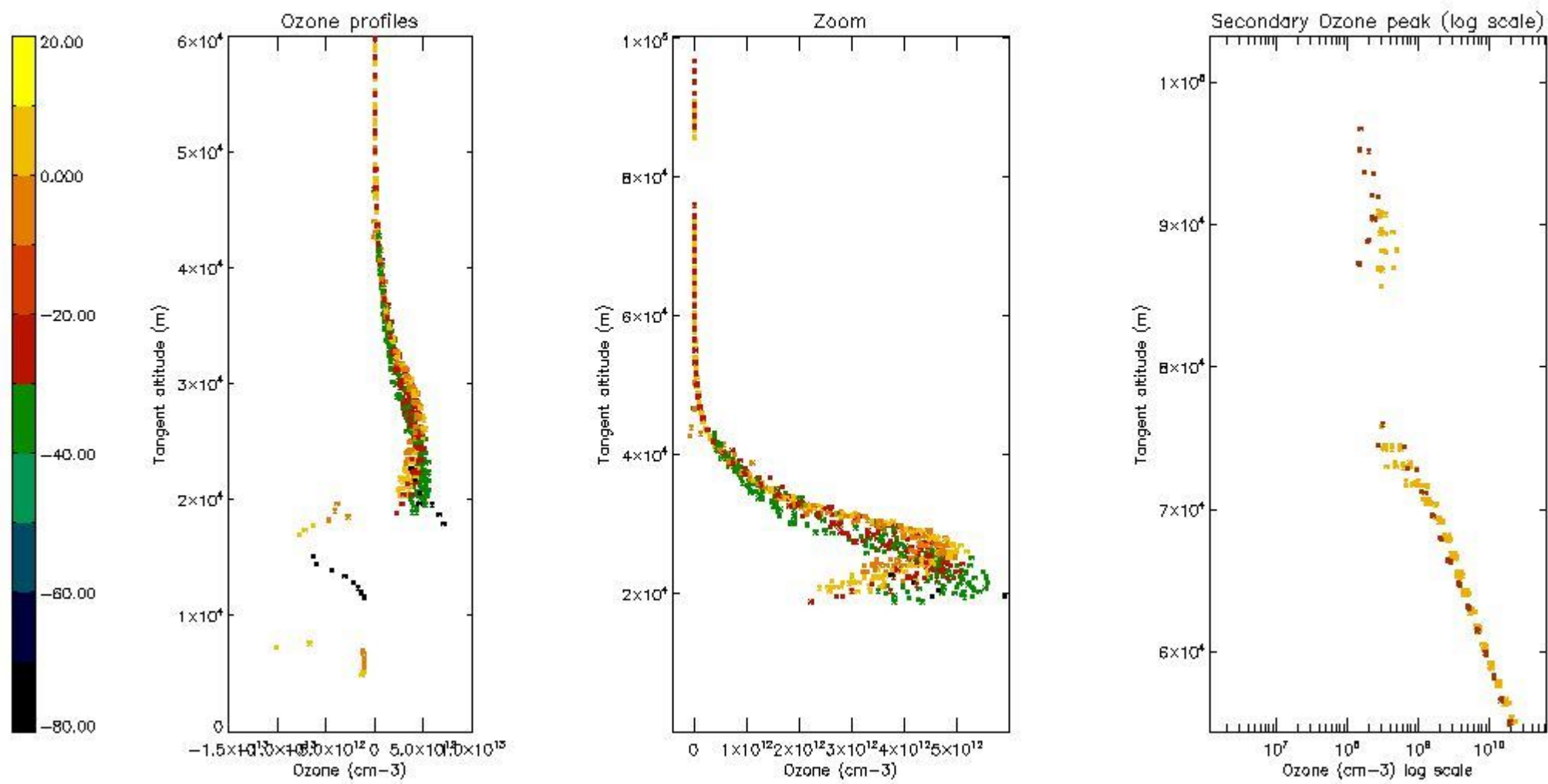
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



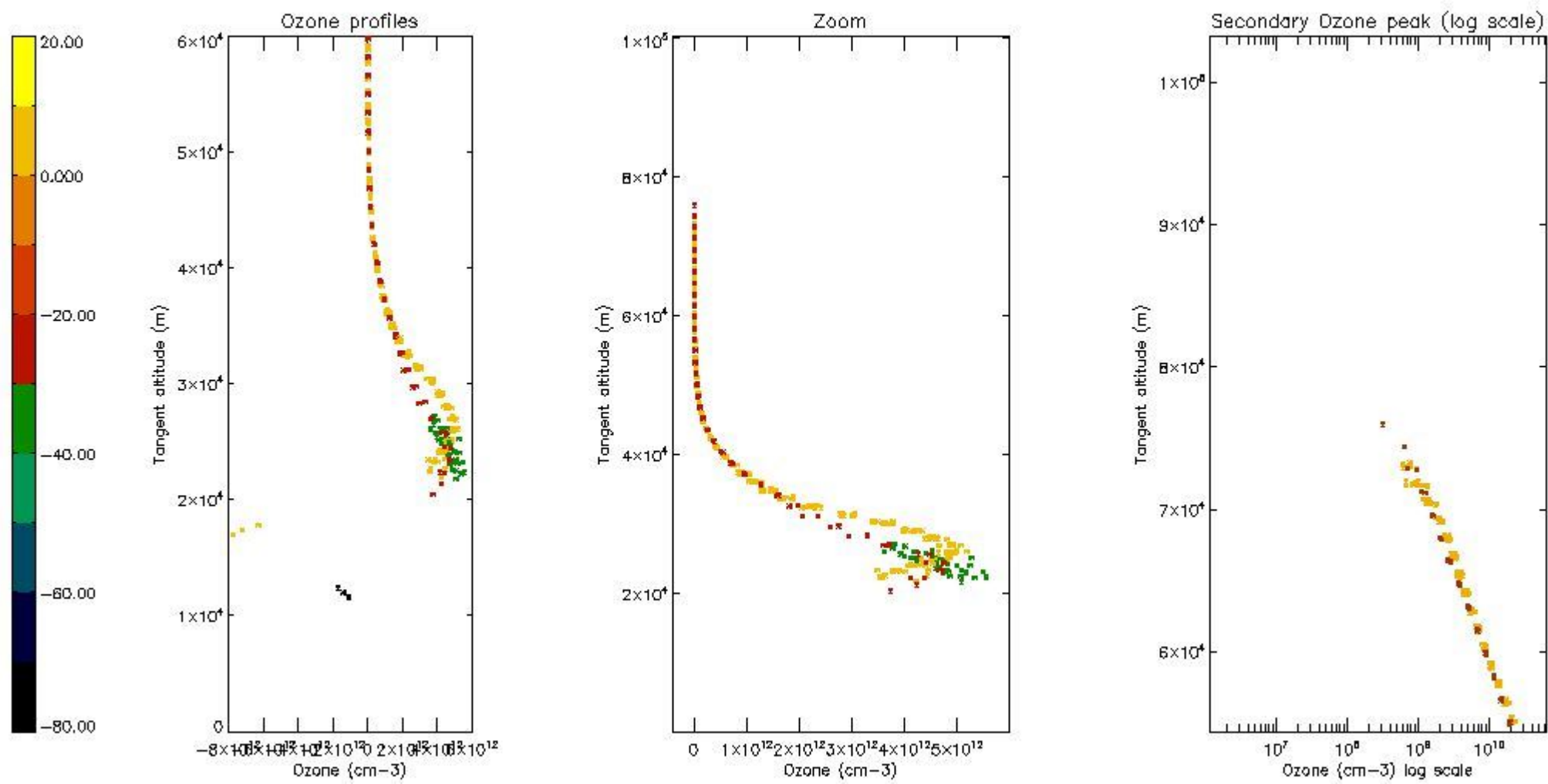
*5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)*

The colorbar represents the latitude.



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

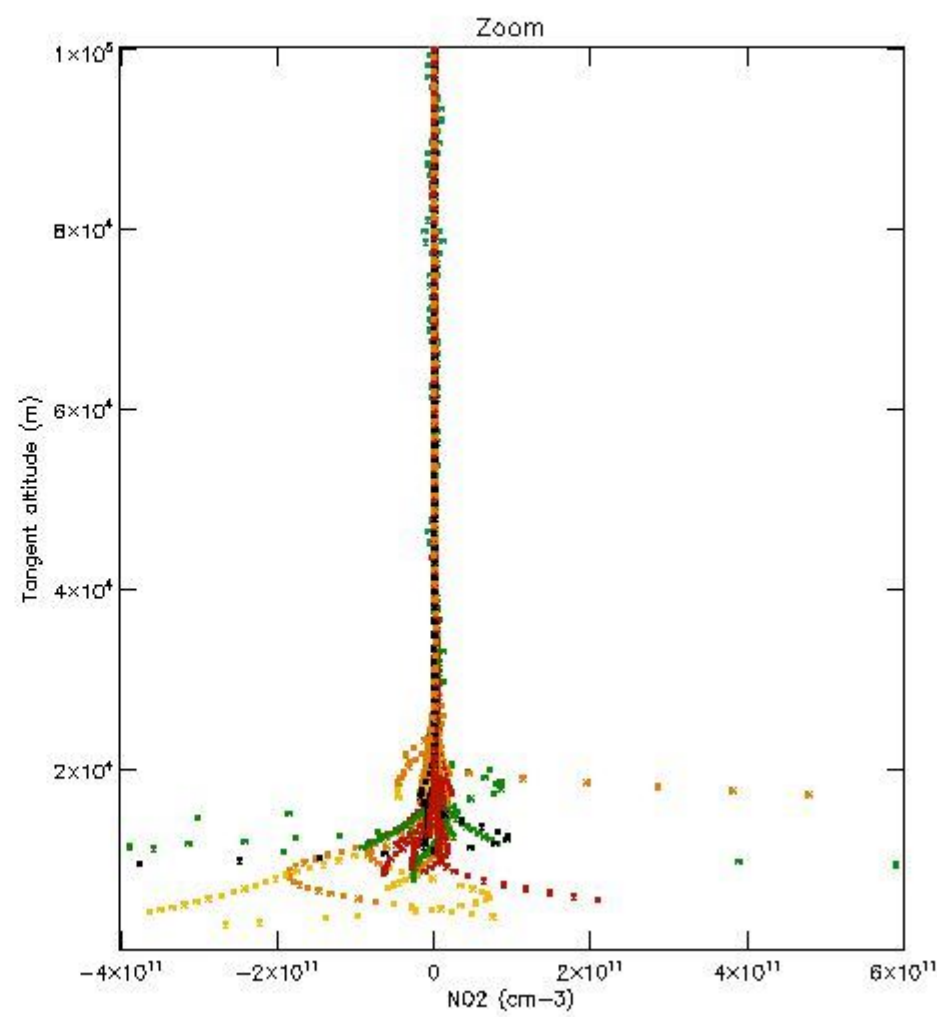
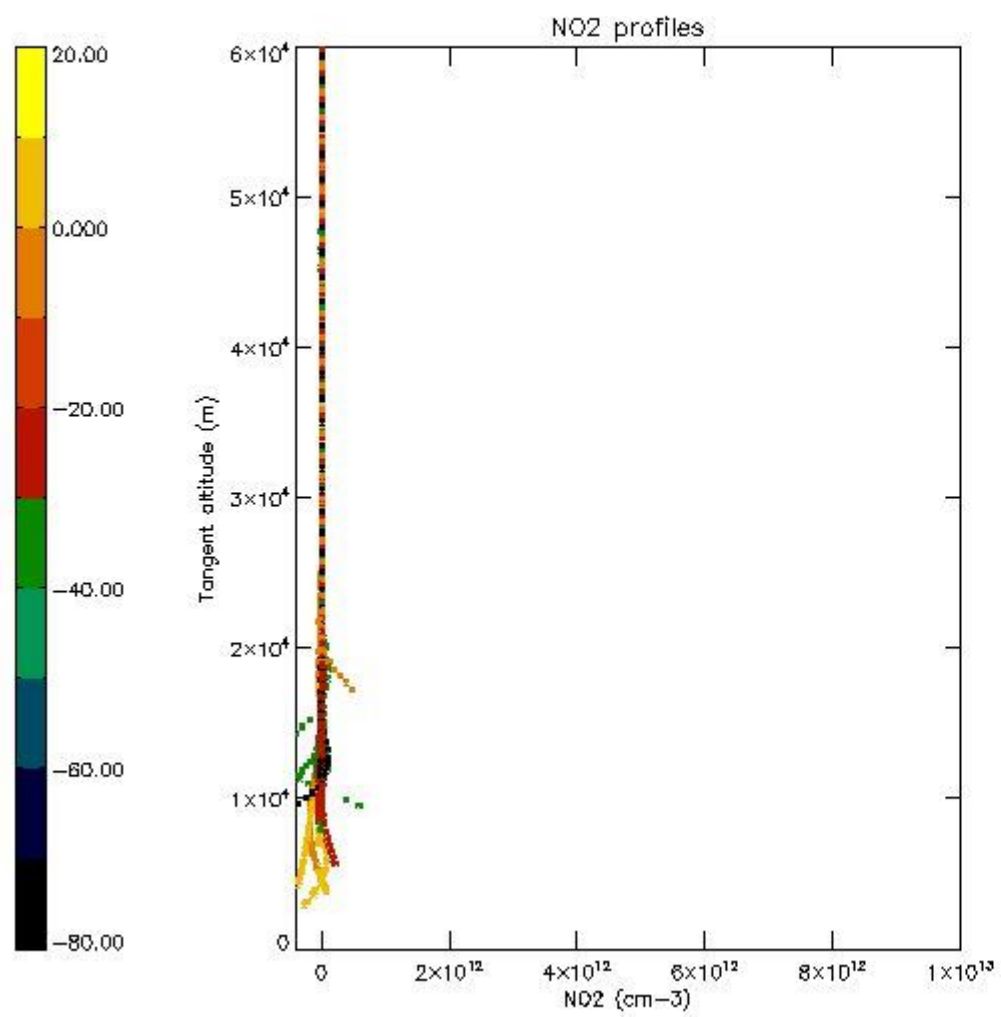
The colorbar represents the latitude.



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

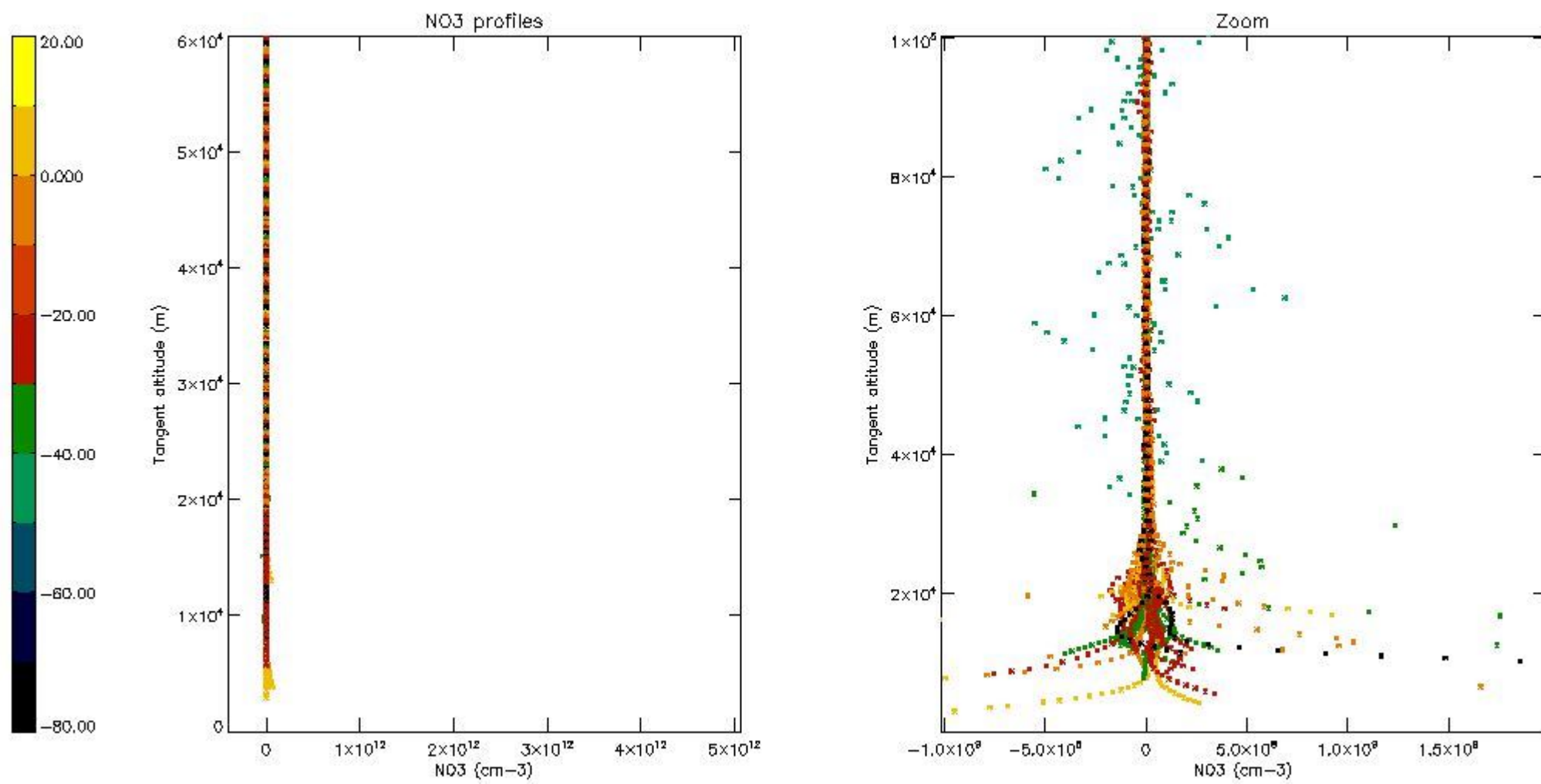
The colorbar represents the latitude.





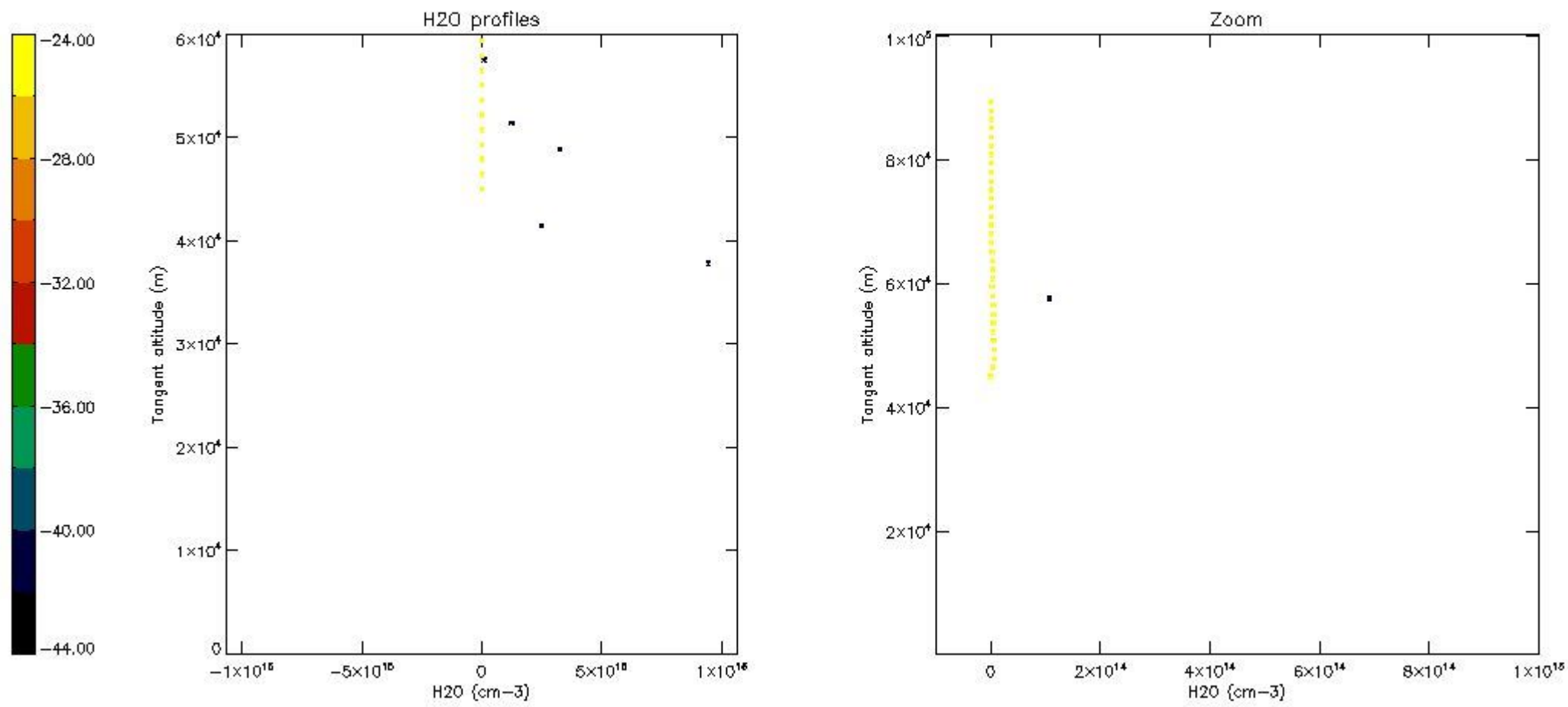
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot H<sub>2</sub>O 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                  | 16-JUN-2007 00:02:10    |
| LEVEL-2_PROC_CONFIG       | GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000 | 1                  | 16-JUN-2007 00:02:10    |
| CROSS_SECTIONS_FILE       | GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000 | 1                  | 16-JUN-2007 00:02:10    |

# GOMOS Level 2 Daily Report

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### [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 | 22APR2013 20:48:49              |
| Data source version       | GOMOS/6.01                      |
| Start time of products    | 16-06-2007 (16JUN2007 00:00:00) |
| Stop time of products     | 17-06-2007 (17JUN2007 00:00:00) |
| Store outputs in DB       | Yes                             |
| Nb of level 2 prods       | 259                             |
| 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__2PRFIN20070616_000210_000000402059_00059_27668_0082.N1 | 16-JUN-2007 00:02:10 | Bright        | 40.000   | 130     | 23Bet Dra | 2.7990   | 5800.0    | 80      | 27668 | No          |
| 2  | GOM_NL__2PRFIN20070616_000342_000000372059_00059_27668_0083.N1 | 16-JUN-2007 00:03:42 | Bright        | 37.000   | 119     | 14Eta Dra | 2.7270   | 4700.0    | 74      | 27668 | No          |
| 3  | GOM_NL__2PRFIN20070616_001900_000000642059_00059_27668_0084.N1 | 16-JUN-2007 00:19:00 | Bright        | 64.000   | 74      | 11Bet Cas | 2.2680   | 6600.0    | 128     | 27668 | No          |
| 4  | GOM_NL__2PRFIN20070616_002022_000000562059_00059_27668_0085.N1 | 16-JUN-2007 00:20:22 | Bright        | 56.000   | 68      | 18Alp Cas | 2.2250   | 4500.0    | 112     | 27668 | No          |
| 5  | GOM_NL__2PRFIN20070616_002530_000000572059_00059_27668_0086.N1 | 16-JUN-2007 00:25:30 | Bright        | 57.000   | 73      | 57Gam1And | 2.2600   | 13100.    | 114     | 27668 | No          |
| 6  | GOM_NL__2PRFIN20070616_002751_000000412059_00059_27668_0087.N1 | 16-JUN-2007 00:27:51 | Twi_and_stray | 41.000   | 53      | 43Bet And | 2.0480   | 3300.0    | 82      | 27668 | No          |
| 7  | GOM_NL__2PRFIN20070616_003120_000000482059_00059_27668_0088.N1 | 16-JUN-2007 00:31:20 | Twilight      | 48.000   | 50      | 13Alp Ari | 2.0070   | 4250.0    | 96      | 27668 | No          |
| 8  | GOM_NL__2PRFIN20070616_004659_000000612059_00059_27668_0089.N1 | 16-JUN-2007 00:46:59 | Dark          | 60.500   | 52      | 16Bet Cet | 2.0370   | 4500.0    | 121     | 27668 | No          |
| 9  | GOM_NL__2PRFIN20070616_005313_000000452059_00059_27668_0090.N1 | 16-JUN-2007 00:53:13 | Dark          | 44.500   | 84      | Alp Phe   | 2.3970   | 4500.0    | 89      | 27668 | No          |
| 10 | GOM_NL__2PRFIN20070616_005925_000000662059_00060_27669_0085.N1 | 16-JUN-2007 00:59:25 | Dark          | 65.500   | 63      | Bet Gru   | 2.1500   | 2800.0    | 131     | 27669 | No          |
| 11 | GOM_NL__2PRFIN20070616_010128_000000482059_00060_27669_0086.N1 | 16-JUN-2007 01:01:28 | Dark          | 48.000   | 31      | Alp Gru   | 1.7340   | 15200.    | 96      | 27669 | No          |
| 12 | GOM_NL__2PRFIN20070616_010520_000000412059_00060_27669_0087.N1 | 16-JUN-2007 01:05:20 | Straylight    | 41.000   | 45      | Alp Pav   | 1.9400   | 26000.    | 82      | 27669 | No          |
| 13 | GOM_NL__2PRFIN20070616_011330_000000422059_00060_27669_0088.N1 | 16-JUN-2007 01:13:30 | Twi_and_stray | 42.000   | 40      | The Sco   | 1.8590   | 7100.0    | 84      | 27669 | No          |
| 14 | GOM_NL__2PRFIN20070616_011513_000000422059_00060_27669_0089.N1 | 16-JUN-2007 01:15:13 | Twi_and_stray | 42.000   | 25      | 35Lam Sco | 1.6200   | 28000.    | 84      | 27669 | No          |
| 15 | GOM_NL__2PRFIN20070616_011637_000000462059_00060_27669_0090.N1 | 16-JUN-2007 01:16:37 | Twi_and_stray | 46.000   | 167     | 10Gam2Sgr | 2.9840   | 4500.0    | 92      | 27669 | No          |
| 16 | GOM_NL__2PRFIN20070616_012149_000000392059_00060_27669_0091.N1 | 16-JUN-2007 01:21:49 | Bright        | 39.000   | 86      | 35Eta Oph | 2.4300   | 10200.    | 78      | 27669 | No          |
| 17 | GOM_NL__2PRFIN20070616_012334_000000372059_00060_27669_0092.N1 | 16-JUN-2007 01:23:34 | Bright        | 36.500   | 98      | 13Zet Oph | 2.5710   | 30000.    | 73      | 27669 | No          |
| 18 | GOM_NL__2PRFIN20070616_012824_000000442059_00060_27669_0093.N1 | 16-JUN-2007 01:28:24 | Bright        | 43.500   | 126     | 60Bet Oph | 2.7700   | 4250.0    | 87      | 27669 | No          |
| 19 | GOM_NL__2PRFIN20070616_013056_000000432059_00060_27669_0094.N1 | 16-JUN-2007 01:30:56 | Bright        | 43.000   | 59      | 55Alp Oph | 2.0800   | 8900.0    | 86      | 27669 | No          |
| 20 | GOM_NL__2PRFIN20070616_013253_000000362059_00060_27669_0095.N1 | 16-JUN-2007 01:32:53 | Bright        | 36.000   | 127     | 27Bet Her | 2.7810   | 4700.0    | 72      | 27669 | No          |
| 21 | GOM_NL__2PRFIN20070616_013556_000000382059_00060_27669_0096.N1 | 16-JUN-2007 01:35:56 | Bright        | 38.000   | 133     | 40Zet Her | 2.8070   | 6000.0    | 76      | 27669 | No          |
| 22 | GOM_NL__2PRFIN20070616_014245_000000412059_00060_27669_0097.N1 | 16-JUN-2007 01:42:45 | Bright        | 40.500   | 130     | 23Bet Dra | 2.7990   | 5800.0    | 81      | 27669 | No          |
| 23 | GOM_NL__2PRFIN20070616_014418_000000352059_00060_27669_0098.N1 | 16-JUN-2007 01:44:18 | Bright        | 35.000   | 119     | 14Eta Dra | 2.7270   | 4700.0    | 70      | 27669 | No          |
| 24 | GOM_NL__2PRFIN20070616_015935_000000422059_00060_27669_0099.N1 | 16-JUN-2007 01:59:35 | Bright        | 41.500   | 74      | 11Bet Cas | 2.2680   | 6600.0    | 83      | 27669 | No          |
| 25 | GOM_NL__2PRFIN20070616_020058_000000432059_00060_27669_0100.N1 | 16-JUN-2007 02:00:58 | Bright        | 43.000   | 68      | 18Alp Cas | 2.2250   | 4500.0    | 86      | 27669 | No          |
| 26 | GOM_NL__2PRFIN20070616_020606_000000392059_00060_27669_0101.N1 | 16-JUN-2007 02:06:06 | Bright        | 38.500   | 73      | 57Gam1And | 2.2600   | 13100.    | 77      | 27669 | No          |
| 27 | GOM_NL__2PRFIN20070616_020827_000000412059_00060_27669_0102.N1 | 16-JUN-2007 02:08:27 | Twi_and_stray | 41.000   | 53      | 43Bet And | 2.0480   | 3300.0    | 82      | 27669 | No          |
| 28 | GOM_NL__2PRFIN20070616_021156_000000492059_00060_27669_0103.N1 | 16-JUN-2007 02:11:56 | Twilight      | 48.500   | 50      | 13Alp Ari | 2.0070   | 4250.0    | 97      | 27669 | No          |
| 29 | GOM_NL__2PRFIN20070616_022736_000000562059_00060_27669_0104.N1 | 16-JUN-2007 02:27:36 | Dark          | 55.500   | 52      | 16Bet Cet | 2.0370   | 4500.0    | 111     | 27669 | No          |
| 30 | GOM_NL__2PRFIN20070616_023350_000000442059_00060_27669_0105.N1 | 16-JUN-2007 02:33:50 | Dark          | 44.000   | 84      | Alp Phe   | 2.3970   | 4500.0    | 88      | 27669 | No          |
| 31 | GOM_NL__2PRFIN20070616_024002_000000472059_00061_27670_0102.N1 | 16-JUN-2007 02:40:02 | Dark          | 47.000   | 63      | Bet Gru   | 2.1500   | 2800.0    | 94      | 27670 | No          |
| 32 | GOM_NL__2PRFIN20070616_024205_000000502059_00061_27670_0103.N1 | 16-JUN-2007 02:42:05 | Dark          | 49.500   | 31      | Alp Gru   | 1.7340   | 15200.    | 99      | 27670 | No          |
| 33 | GOM_NL__2PRFIN20070616_024557_000000452059_00061_27670_0104.N1 | 16-JUN-2007 02:45:57 | Straylight    | 44.500   | 45      | Alp Pav   | 1.9400   | 26000.    | 89      | 27670 | No          |
| 34 | GOM_NL__2PRFIN20070616_025407_000000462059_00061_27670_0105.N1 | 16-JUN-2007 02:54:07 | Twi_and_stray | 46.000   | 40      | The Sco   | 1.8590   | 7100.0    | 92      | 27670 | No          |
| 35 | GOM_NL__2PRFIN20070616_025550_000000412059_00061_27670_0106.N1 | 16-JUN-2007 02:55:50 | Twi_and_stray | 40.500   | 25      | 35Lam Sco | 1.6200   | 28000.    | 81      | 27670 | No          |
| 36 | GOM_NL__2PRFIN20070616_025713_000000452059_00061_27670_0107.N1 | 16-JUN-2007 02:57:13 | Twi_and_stray | 44.500   | 167     | 10Gam2Sgr | 2.9840   | 4500.0    | 89      | 27670 | No          |
| 37 | GOM_NL__2PRFIN20070616_030226_000000392059_00061_27670_0108.N1 | 16-JUN-2007 03:02:26 | Bright        | 38.500   | 86      | 35Eta Oph | 2.4300   | 10200.    | 77      | 27670 | No          |
| 38 | GOM_NL__2PRFIN20070616_030410_000000372059_00061_27670_0109.N1 | 16-JUN-2007 03:04:10 | Bright        | 37.000   | 98      | 13Zet Oph | 2.5710   | 30000.    | 74      | 27670 | No          |
| 39 | GOM_NL__2PRFIN20070616_030900_000000432059_00061_27670_0110.N1 | 16-JUN-2007 03:09:00 | Bright        | 43.000   | 126     | 60Bet Oph | 2.7700   | 4250.0    | 86      | 27670 | No          |
| 40 | GOM_NL__2PRFIN20070616_031131_000000442059_00061_27670_0111.N1 | 16-JUN-2007 03:11:31 | Bright        | 43.500   | 59      | 55Alp Oph | 2.0800   | 8900.0    | 87      | 27670 | No          |
| 41 | GOM_NL__2PRFIN20070616_031329_000000382059_00061_27670_0112.N1 | 16-JUN-2007 03:13:29 | Bright        | 37.500   | 127     | 27Bet Her | 2.7810   | 4700.0    | 75      | 27670 | No          |
| 42 | GOM_NL__2PRFIN20070616_031632_000000372059_00061_27670_0113.N1 | 16-JUN-2007 03:16:32 | Bright        | 37.000   | 133     | 40Zet Her | 2.8070   | 6000.0    | 74      | 27670 | No          |

|     |  |                      |            |        |     |           |        |        |     |       |    |
|-----|--|----------------------|------------|--------|-----|-----------|--------|--------|-----|-------|----|
| 43  | GOM_NL__2PRFIN20070616_032321_000000382059_00061_27670_0114.N1 | 16-JUN-2007 03:23:21 | Bright     | 37.500 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 75  | 27670 | No |
| 44  | GOM_NL__2PRFIN20070616_032454_000000332059_00061_27670_0115.N1 | 16-JUN-2007 03:24:54 | Bright     | 33.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 66  | 27670 | No |
| 45  | GOM_NL__2PRFIN20070616_034011_000000642059_00061_27670_0116.N1 | 16-JUN-2007 03:40:11 | Bright     | 64.000 | 74  | 11Bet Cas | 2.2680 | 6600.0 | 128 | 27670 | No |
| 46  | GOM_NL__2PRFIN20070616_034134_000000622059_00061_27670_0117.N1 | 16-JUN-2007 03:41:34 | Bright     | 62.000 | 68  | 18Alp Cas | 2.2250 | 4500.0 | 124 | 27670 | No |
| 47  | GOM_NL__2PRFIN20070616_034642_000000392059_00061_27670_0118.N1 | 16-JUN-2007 03:46:42 | Bright     | 39.000 | 73  | 57Gam1And | 2.2600 | 13100. | 78  | 27670 | No |
| 48  | GOM_NL__2PRFIN20070616_034903_000000322059_00061_27670_0119.N1 | 16-JUN-2007 03:49:03 | Twilight   | 32.000 | 53  | 43Bet And | 2.0480 | 3300.0 | 64  | 27670 | No |
| 49  | GOM_NL__2PRFIN20070616_035233_000000492059_00061_27670_0120.N1 | 16-JUN-2007 03:52:33 | Twilight   | 48.500 | 50  | 13Alp Ari | 2.0070 | 4250.0 | 97  | 27670 | No |
| 50  | GOM_NL__2PRFIN20070616_040813_000000562059_00061_27670_0121.N1 | 16-JUN-2007 04:08:13 | Dark       | 56.000 | 52  | 16Bet Cet | 2.0370 | 4500.0 | 112 | 27670 | No |
| 51  | GOM_NL__2PRFIN20070616_041427_000000442059_00061_27670_0122.N1 | 16-JUN-2007 04:14:27 | Dark       | 43.500 | 84  | Alp Phe   | 2.3970 | 4500.0 | 87  | 27670 | No |
| 52  | GOM_NL__2PRFIN20070616_042039_000000532059_00062_27671_0113.N1 | 16-JUN-2007 04:20:39 | Dark       | 53.000 | 63  | Bet Gru   | 2.1500 | 2800.0 | 106 | 27671 | No |
| 53  | GOM_NL__2PRFIN20070616_042242_000000512059_00062_27671_0114.N1 | 16-JUN-2007 04:22:42 | Dark       | 50.500 | 31  | Alp Gru   | 1.7340 | 15200. | 101 | 27671 | No |
| 54  | GOM_NL__2PRFIN20070616_042633_000000432059_00062_27671_0115.N1 | 16-JUN-2007 04:26:33 | Straylight | 42.500 | 45  | Alp Pav   | 1.9400 | 26000. | 85  | 27671 | No |
| 55  | GOM_NL__2PRFIN20070616_043443_000000422059_00062_27671_0116.N1 | 16-JUN-2007 04:34:43 | Twilight   | 42.000 | 40  | The Sco   | 1.8590 | 7100.0 | 84  | 27671 | No |
| 56  | GOM_NL__2PRFIN20070616_043626_000000402059_00062_27671_0117.N1 | 16-JUN-2007 04:36:26 | Twilight   | 39.500 | 25  | 35Lam Sco | 1.6200 | 28000. | 79  | 27671 | No |
| 57  | GOM_NL__2PRFIN20070616_043749_000000452059_00062_27671_0118.N1 | 16-JUN-2007 04:37:49 | Twilight   | 44.500 | 167 | 10Gam2Sgr | 2.9840 | 4500.0 | 89  | 27671 | No |
| 58  | GOM_NL__2PRFIN20070616_044302_000000392059_00062_27671_0119.N1 | 16-JUN-2007 04:43:02 | Bright     | 39.000 | 86  | 35Eta Oph | 2.4300 | 10200. | 78  | 27671 | No |
| 59  | GOM_NL__2PRFIN20070616_044446_000000372059_00062_27671_0120.N1 | 16-JUN-2007 04:44:46 | Bright     | 36.500 | 98  | 13Zet Oph | 2.5710 | 30000. | 73  | 27671 | No |
| 60  | GOM_NL__2PRFIN20070616_044936_000000452059_00062_27671_0121.N1 | 16-JUN-2007 04:49:36 | Bright     | 45.000 | 126 | 60Bet Oph | 2.7700 | 4250.0 | 90  | 27671 | No |
| 61  | GOM_NL__2PRFIN20070616_045207_000000422059_00062_27671_0122.N1 | 16-JUN-2007 04:52:07 | Bright     | 42.000 | 59  | 55Alp Oph | 2.0800 | 8900.0 | 84  | 27671 | No |
| 62  | GOM_NL__2PRFIN20070616_045405_000000382059_00062_27671_0123.N1 | 16-JUN-2007 04:54:05 | Bright     | 37.500 | 127 | 27Bet Her | 2.7810 | 4700.0 | 75  | 27671 | No |
| 63  | GOM_NL__2PRFIN20070616_045707_000000392059_00062_27671_0124.N1 | 16-JUN-2007 04:57:07 | Bright     | 39.000 | 133 | 40Zet Her | 2.8070 | 6000.0 | 78  | 27671 | No |
| 64  | GOM_NL__2PRFIN20070616_050356_000000402059_00062_27671_0125.N1 | 16-JUN-2007 05:03:56 | Bright     | 39.500 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 79  | 27671 | No |
| 65  | GOM_NL__2PRFIN20070616_050530_000000362059_00062_27671_0126.N1 | 16-JUN-2007 05:05:30 | Bright     | 36.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 72  | 27671 | No |
| 66  | GOM_NL__2PRFIN20070616_052047_000000432059_00062_27671_0127.N1 | 16-JUN-2007 05:20:47 | Bright     | 43.000 | 74  | 11Bet Cas | 2.2680 | 6600.0 | 86  | 27671 | No |
| 67  | GOM_NL__2PRFIN20070616_052209_000000442059_00062_27671_0128.N1 | 16-JUN-2007 05:22:09 | Bright     | 44.000 | 68  | 18Alp Cas | 2.2250 | 4500.0 | 88  | 27671 | No |
| 68  | GOM_NL__2PRFIN20070616_052718_000000392059_00062_27671_0129.N1 | 16-JUN-2007 05:27:18 | Bright     | 38.500 | 73  | 57Gam1And | 2.2600 | 13100. | 77  | 27671 | No |
| 69  | GOM_NL__2PRFIN20070616_052939_000000322059_00062_27671_0130.N1 | 16-JUN-2007 05:29:39 | Twilight   | 32.000 | 53  | 43Bet And | 2.0480 | 3300.0 | 64  | 27671 | No |
| 70  | GOM_NL__2PRFIN20070616_053308_000000482059_00062_27671_0131.N1 | 16-JUN-2007 05:33:08 | Twilight   | 48.000 | 50  | 13Alp Ari | 2.0070 | 4250.0 | 96  | 27671 | No |
| 71  | GOM_NL__2PRFIN20070616_054850_000000552059_00062_27671_0132.N1 | 16-JUN-2007 05:48:50 | Dark       | 54.500 | 52  | 16Bet Cet | 2.0370 | 4500.0 | 109 | 27671 | No |
| 72  | GOM_NL__2PRFIN20070616_055503_000000472059_00062_27671_0133.N1 | 16-JUN-2007 05:55:03 | Dark       | 46.500 | 84  | Alp Phe   | 2.3970 | 4500.0 | 93  | 27671 | No |
| 73  | GOM_NL__2PRFIN20070616_060116_000000602059_00063_27672_0138.N1 | 16-JUN-2007 06:01:16 | Dark       | 60.000 | 63  | Bet Gru   | 2.1500 | 2800.0 | 120 | 27672 | No |
| 74  | GOM_NL__2PRFIN20070616_060319_000000482059_00063_27672_0139.N1 | 16-JUN-2007 06:03:19 | Dark       | 48.000 | 31  | Alp Gru   | 1.7340 | 15200. | 96  | 27672 | No |
| 75  | GOM_NL__2PRFIN20070616_060710_000000412059_00063_27672_0140.N1 | 16-JUN-2007 06:07:10 | Straylight | 41.000 | 45  | Alp Pav   | 1.9400 | 26000. | 82  | 27672 | No |
| 76  | GOM_NL__2PRFIN20070616_061702_000000432059_00063_27672_0141.N1 | 16-JUN-2007 06:17:02 | Twilight   | 42.500 | 25  | 35Lam Sco | 1.6200 | 28000. | 85  | 27672 | No |
| 77  | GOM_NL__2PRFIN20070616_061825_000000462059_00063_27672_0142.N1 | 16-JUN-2007 06:18:25 | Twilight   | 45.500 | 167 | 10Gam2Sgr | 2.9840 | 4500.0 | 91  | 27672 | No |
| 78  | GOM_NL__2PRFIN20070616_062338_000000392059_00063_27672_0143.N1 | 16-JUN-2007 06:23:38 | Bright     | 39.000 | 86  | 35Eta Oph | 2.4300 | 10200. | 78  | 27672 | No |
| 79  | GOM_NL__2PRFIN20070616_062522_000000362059_00063_27672_0144.N1 | 16-JUN-2007 06:25:22 | Bright     | 36.000 | 98  | 13Zet Oph | 2.5710 | 30000. | 72  | 27672 | No |
| 80  | GOM_NL__2PRFIN20070616_063011_000000432059_00063_27672_0145.N1 | 16-JUN-2007 06:30:11 | Bright     | 43.000 | 126 | 60Bet Oph | 2.7700 | 4250.0 | 86  | 27672 | No |
| 81  | GOM_NL__2PRFIN20070616_063243_000000452059_00063_27672_0146.N1 | 16-JUN-2007 06:32:43 | Bright     | 44.500 | 59  | 55Alp Oph | 2.0800 | 8900.0 | 89  | 27672 | No |
| 82  | GOM_NL__2PRFIN20070616_063441_000000362059_00063_27672_0147.N1 | 16-JUN-2007 06:34:41 | Bright     | 35.500 | 127 | 27Bet Her | 2.7810 | 4700.0 | 71  | 27672 | No |
| 83  | GOM_NL__2PRFIN20070616_063743_000000382059_00063_27672_0148.N1 | 16-JUN-2007 06:37:43 | Bright     | 37.500 | 133 | 40Zet Her | 2.8070 | 6000.0 | 75  | 27672 | No |
| 84  | GOM_NL__2PRFIN20070616_064432_000000392059_00063_27672_0149.N1 | 16-JUN-2007 06:44:32 | Bright     | 39.000 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 78  | 27672 | No |
| 85  | GOM_NL__2PRFIN20070616_064606_000000352059_00063_27672_0150.N1 | 16-JUN-2007 06:46:06 | Bright     | 35.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 70  | 27672 | No |
| 86  | GOM_NL__2PRFIN20070616_070122_000000532059_00063_27672_0151.N1 | 16-JUN-2007 07:01:22 | Bright     | 53.000 | 74  | 11Bet Cas | 2.2680 | 6600.0 | 106 | 27672 | No |
| 87  | GOM_NL__2PRFIN20070616_070245_000000432059_00063_27672_0152.N1 | 16-JUN-2007 07:02:45 | Bright     | 43.000 | 68  | 18Alp Cas | 2.2250 | 4500.0 | 86  | 27672 | No |
| 88  | GOM_NL__2PRFIN20070616_070754_000000402059_00063_27672_0153.N1 | 16-JUN-2007 07:07:54 | Bright     | 40.000 | 73  | 57Gam1And | 2.2600 | 13100. | 80  | 27672 | No |
| 89  | GOM_NL__2PRFIN20070616_071010_000000402059_00063_27672_0154.N1 | 16-JUN-2007 07:10:10 | Bright     | 40.000 | 173 | 4Bet Tri  | 3.0040 | 8900.0 | 80  | 27672 | No |
| 90  | GOM_NL__2PRFIN20070616_071345_000000512059_00063_27672_0155.N1 | 16-JUN-2007 07:13:45 | Twilight   | 51.000 | 50  | 13Alp Ari | 2.0070 | 4250.0 | 102 | 27672 | No |
| 91  | GOM_NL__2PRFIN20070616_072927_000000602059_00063_27672_0156.N1 | 16-JUN-2007 07:29:27 | Dark       | 60.000 | 52  | 16Bet Cet | 2.0370 | 4500.0 | 120 | 27672 | No |
| 92  | GOM_NL__2PRFIN20070616_073540_000000442059_00063_27672_0157.N1 | 16-JUN-2007 07:35:40 | Dark       | 44.000 | 84  | Alp Phe   | 2.3970 | 4500.0 | 88  | 27672 | No |
| 93  | GOM_NL__2PRFIN20070616_074153_000000672059_00064_27673_0153.N1 | 16-JUN-2007 07:41:53 | Dark       | 67.000 | 63  | Bet Gru   | 2.1500 | 2800.0 | 134 | 27673 | No |
| 94  | GOM_NL__2PRFIN20070616_074356_000000522059_00064_27673_0154.N1 | 16-JUN-2007 07:43:56 | Dark       | 51.500 | 31  | Alp Gru   | 1.7340 | 15200. | 103 | 27673 | No |
| 95  | GOM_NL__2PRFIN20070616_074746_000000422059_00064_27673_0155.N1 | 16-JUN-2007 07:47:46 | Straylight | 42.000 | 45  | Alp Pav   | 1.9400 | 26000. | 84  | 27673 | No |
| 96  | GOM_NL__2PRFIN20070616_075738_000000442059_00064_27673_0156.N1 | 16-JUN-2007 07:57:38 | Twilight   | 44.000 | 25  | 35Lam Sco | 1.6200 | 28000. | 88  | 27673 | No |
| 97  | GOM_NL__2PRFIN20070616_075902_000000492059_00064_27673_0157.N1 | 16-JUN-2007 07:59:02 | Twilight   | 48.500 | 167 | 10Gam2Sgr | 2.9840 | 4500.0 | 97  | 27673 | No |
| 98  | GOM_NL__2PRFIN20070616_080414_000000392059_00064_27673_0158.N1 | 16-JUN-2007 08:04:14 | Bright     | 39.000 | 86  | 35Eta Oph | 2.4300 | 10200. | 78  | 27673 | No |
| 99  | GOM_NL__2PRFIN20070616_080603_000000322059_00064_27673_0159.N1 | 16-JUN-2007 08:06:03 | Bright     | 32.000 | 98  | 13Zet Oph | 2.5710 | 30000. | 64  | 27673 | No |
| 100 | GOM_NL__2PRFIN20070616_081047_000000442059_00064_27673_0160.N1 | 16-JUN-2007 08:10:47 | Bright     | 43.500 | 126 | 60Bet Oph | 2.7700 | 4250.0 | 87  | 27673 | No |
| 101 | GOM_NL__2PRFIN20070616_081318_000000632059_00064_27673_0161.N1 | 16-JUN-2007 08:13:18 | Bright     | 63.000 | 59  | 55Alp Oph | 2.0800 | 8900.0 | 126 | 27673 | No |

|     |  |                      |               |        |     |           |        |        |     |       |    |
|-----|--|----------------------|---------------|--------|-----|-----------|--------|--------|-----|-------|----|
| 102 | GOM_NL__2PRFIN20070616_081517_000000372059_00064_27673_0162.N1 | 16-JUN-2007 08:15:17 | Bright        | 36.500 | 127 | 27Bet Her | 2.7810 | 4700.0 | 73  | 27673 | No |
| 103 | GOM_NL__2PRFIN20070616_081819_000000362059_00064_27673_0163.N1 | 16-JUN-2007 08:18:19 | Bright        | 36.000 | 133 | 40Zet Her | 2.8070 | 6000.0 | 72  | 27673 | No |
| 104 | GOM_NL__2PRFIN20070616_082508_000000402059_00064_27673_0164.N1 | 16-JUN-2007 08:25:08 | Bright        | 40.000 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 80  | 27673 | No |
| 105 | GOM_NL__2PRFIN20070616_082641_000000372059_00064_27673_0165.N1 | 16-JUN-2007 08:26:41 | Bright        | 36.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 73  | 27673 | No |
| 106 | GOM_NL__2PRFIN20070616_084158_000000522059_00064_27673_0166.N1 | 16-JUN-2007 08:41:58 | Bright        | 52.000 | 74  | 11Bet Cas | 2.2680 | 6600.0 | 104 | 27673 | No |
| 107 | GOM_NL__2PRFIN20070616_084321_000000502059_00064_27673_0167.N1 | 16-JUN-2007 08:43:21 | Bright        | 50.000 | 68  | 18Alp Cas | 2.2250 | 4500.0 | 100 | 27673 | No |
| 108 | GOM_NL__2PRFIN20070616_084830_000000402059_00064_27673_0168.N1 | 16-JUN-2007 08:48:30 | Bright        | 40.000 | 73  | 57Gam1And | 2.2600 | 13100. | 80  | 27673 | No |
| 109 | GOM_NL__2PRFIN20070616_085046_000000402059_00064_27673_0169.N1 | 16-JUN-2007 08:50:46 | Bright        | 40.000 | 173 | 4Bet Tri  | 3.0040 | 8900.0 | 80  | 27673 | No |
| 110 | GOM_NL__2PRFIN20070616_085421_000000472059_00064_27673_0170.N1 | 16-JUN-2007 08:54:21 | Twilight      | 47.000 | 50  | 13Alp Ari | 2.0070 | 4250.0 | 94  | 27673 | No |
| 111 | GOM_NL__2PRFIN20070616_091004_000000542059_00064_27673_0171.N1 | 16-JUN-2007 09:10:04 | Dark          | 54.000 | 52  | 16Bet Cet | 2.0370 | 4500.0 | 108 | 27673 | No |
| 112 | GOM_NL__2PRFIN20070616_091617_000000502059_00064_27673_0172.N1 | 16-JUN-2007 09:16:17 | Dark          | 49.500 | 84  | Alp Phe   | 2.3970 | 4500.0 | 99  | 27673 | No |
| 113 | GOM_NL__2PRFIN20070616_092230_000000642059_00065_27674_0169.N1 | 16-JUN-2007 09:22:30 | Dark          | 64.000 | 63  | Bet Gru   | 2.1500 | 2800.0 | 128 | 27674 | No |
| 114 | GOM_NL__2PRFIN20070616_092433_000000502059_00065_27674_0170.N1 | 16-JUN-2007 09:24:33 | Dark          | 49.500 | 31  | Alp Gru   | 1.7340 | 15200. | 99  | 27674 | No |
| 115 | GOM_NL__2PRFIN20070616_092823_000000442059_00065_27674_0171.N1 | 16-JUN-2007 09:28:23 | Straylight    | 44.000 | 45  | Alp Pav   | 1.9400 | 26000. | 88  | 27674 | No |
| 116 | GOM_NL__2PRFIN20070616_093815_000000432059_00065_27674_0172.N1 | 16-JUN-2007 09:38:15 | Twi_and_stray | 43.000 | 25  | 35Lam Sco | 1.6200 | 28000. | 86  | 27674 | No |
| 117 | GOM_NL__2PRFIN20070616_093938_000000472059_00065_27674_0173.N1 | 16-JUN-2007 09:39:38 | Twi_and_stray | 47.000 | 167 | 10Gam2Sgr | 2.9840 | 4500.0 | 94  | 27674 | No |
| 118 | GOM_NL__2PRFIN20070616_094450_000000392059_00065_27674_0174.N1 | 16-JUN-2007 09:44:50 | Bright        | 39.000 | 86  | 35Eta Oph | 2.4300 | 10200. | 78  | 27674 | No |
| 119 | GOM_NL__2PRFIN20070616_095123_000000432059_00065_27674_0175.N1 | 16-JUN-2007 09:51:23 | Bright        | 42.500 | 126 | 60Bet Oph | 2.7700 | 4250.0 | 85  | 27674 | No |
| 120 | GOM_NL__2PRFIN20070616_095354_000000432059_00065_27674_0176.N1 | 16-JUN-2007 09:53:54 | Bright        | 42.500 | 59  | 55Alp Oph | 2.0800 | 8900.0 | 85  | 27674 | No |
| 121 | GOM_NL__2PRFIN20070616_095553_000000372059_00065_27674_0177.N1 | 16-JUN-2007 09:55:53 | Bright        | 37.000 | 127 | 27Bet Her | 2.7810 | 4700.0 | 74  | 27674 | No |
| 122 | GOM_NL__2PRFIN20070616_095855_000000362059_00065_27674_0178.N1 | 16-JUN-2007 09:58:55 | Bright        | 35.500 | 133 | 40Zet Her | 2.8070 | 6000.0 | 71  | 27674 | No |
| 123 | GOM_NL__2PRFIN20070616_100543_000000422059_00065_27674_0179.N1 | 16-JUN-2007 10:05:43 | Bright        | 41.500 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 83  | 27674 | No |
| 124 | GOM_NL__2PRFIN20070616_100717_000000362059_00065_27674_0180.N1 | 16-JUN-2007 10:07:17 | Bright        | 36.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 72  | 27674 | No |
| 125 | GOM_NL__2PRFIN20070616_102233_000000642059_00065_27674_0181.N1 | 16-JUN-2007 10:22:33 | Bright        | 64.000 | 74  | 11Bet Cas | 2.2680 | 6600.0 | 128 | 27674 | No |
| 126 | GOM_NL__2PRFIN20070616_102356_000000412059_00065_27674_0182.N1 | 16-JUN-2007 10:23:56 | Bright        | 40.500 | 68  | 18Alp Cas | 2.2250 | 4500.0 | 81  | 27674 | No |
| 127 | GOM_NL__2PRFIN20070616_102906_000000422059_00065_27674_0183.N1 | 16-JUN-2007 10:29:06 | Bright        | 42.000 | 73  | 57Gam1And | 2.2600 | 13100. | 84  | 27674 | No |
| 128 | GOM_NL__2PRFIN20070616_103122_000000402059_00065_27674_0184.N1 | 16-JUN-2007 10:31:22 | Bright        | 40.000 | 173 | 4Bet Tri  | 3.0040 | 8900.0 | 80  | 27674 | No |
| 129 | GOM_NL__2PRFIN20070616_103457_000000452059_00065_27674_0185.N1 | 16-JUN-2007 10:34:57 | Twilight      | 45.000 | 50  | 13Alp Ari | 2.0070 | 4250.0 | 90  | 27674 | No |
| 130 | GOM_NL__2PRFIN20070616_105041_000000572059_00065_27674_0186.N1 | 16-JUN-2007 10:50:41 | Dark          | 56.500 | 52  | 16Bet Cet | 2.0370 | 4500.0 | 113 | 27674 | No |
| 131 | GOM_NL__2PRFIN20070616_105653_000000532059_00065_27674_0187.N1 | 16-JUN-2007 10:56:53 | Dark          | 53.000 | 84  | Alp Phe   | 2.3970 | 4500.0 | 106 | 27674 | No |
| 132 | GOM_NL__2PRFIN20070616_110307_000000512059_00066_27675_0205.N1 | 16-JUN-2007 11:03:07 | Dark          | 51.000 | 63  | Bet Gru   | 2.1500 | 2800.0 | 102 | 27675 | No |
| 133 | GOM_NL__2PRFIN20070616_110510_000000482059_00066_27675_0206.N1 | 16-JUN-2007 11:05:10 | Dark          | 48.000 | 31  | Alp Gru   | 1.7340 | 15200. | 96  | 27675 | No |
| 134 | GOM_NL__2PRFIN20070616_110859_000000432059_00066_27675_0207.N1 | 16-JUN-2007 11:08:59 | Straylight    | 43.000 | 45  | Alp Pav   | 1.9400 | 26000. | 86  | 27675 | No |
| 135 | GOM_NL__2PRFIN20070616_111851_000000432059_00066_27675_0208.N1 | 16-JUN-2007 11:18:51 | Twi_and_stray | 43.000 | 25  | 35Lam Sco | 1.6200 | 28000. | 86  | 27675 | No |
| 136 | GOM_NL__2PRFIN20070616_112014_000000452059_00066_27675_0209.N1 | 16-JUN-2007 11:20:14 | Twi_and_stray | 45.000 | 167 | 10Gam2Sgr | 2.9840 | 4500.0 | 90  | 27675 | No |
| 137 | GOM_NL__2PRFIN20070616_112526_000000392059_00066_27675_0210.N1 | 16-JUN-2007 11:25:26 | Bright        | 39.000 | 86  | 35Eta Oph | 2.4300 | 10200. | 78  | 27675 | No |
| 138 | GOM_NL__2PRFIN20070616_113158_000000432059_00066_27675_0211.N1 | 16-JUN-2007 11:31:58 | Bright        | 42.500 | 126 | 60Bet Oph | 2.7700 | 4250.0 | 85  | 27675 | No |
| 139 | GOM_NL__2PRFIN20070616_113429_000000632059_00066_27675_0212.N1 | 16-JUN-2007 11:34:29 | Bright        | 63.000 | 59  | 55Alp Oph | 2.0800 | 8900.0 | 126 | 27675 | No |
| 140 | GOM_NL__2PRFIN20070616_113628_000000362059_00066_27675_0213.N1 | 16-JUN-2007 11:36:28 | Bright        | 36.000 | 127 | 27Bet Her | 2.7810 | 4700.0 | 72  | 27675 | No |
| 141 | GOM_NL__2PRFIN20070616_113930_000000382059_00066_27675_0214.N1 | 16-JUN-2007 11:39:30 | Bright        | 37.500 | 133 | 40Zet Her | 2.8070 | 6000.0 | 75  | 27675 | No |
| 142 | GOM_NL__2PRFIN20070616_114619_000000412059_00066_27675_0215.N1 | 16-JUN-2007 11:46:19 | Bright        | 41.000 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 82  | 27675 | No |
| 143 | GOM_NL__2PRFIN20070616_114753_000000372059_00066_27675_0216.N1 | 16-JUN-2007 11:47:53 | Bright        | 37.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 74  | 27675 | No |
| 144 | GOM_NL__2PRFIN20070616_120309_000000422059_00066_27675_0217.N1 | 16-JUN-2007 12:03:09 | Bright        | 41.500 | 74  | 11Bet Cas | 2.2680 | 6600.0 | 83  | 27675 | No |
| 145 | GOM_NL__2PRFIN20070616_120432_000000622059_00066_27675_0218.N1 | 16-JUN-2007 12:04:32 | Bright        | 62.000 | 68  | 18Alp Cas | 2.2250 | 4500.0 | 124 | 27675 | No |
| 146 | GOM_NL__2PRFIN20070616_120942_000000412059_00066_27675_0219.N1 | 16-JUN-2007 12:09:42 | Bright        | 41.000 | 73  | 57Gam1And | 2.2600 | 13100. | 82  | 27675 | No |
| 147 | GOM_NL__2PRFIN20070616_121157_000000392059_00066_27675_0220.N1 | 16-JUN-2007 12:11:57 | Bright        | 39.000 | 173 | 4Bet Tri  | 3.0040 | 8900.0 | 78  | 27675 | No |
| 148 | GOM_NL__2PRFIN20070616_121533_000000502059_00066_27675_0221.N1 | 16-JUN-2007 12:15:33 | Twilight      | 49.500 | 50  | 13Alp Ari | 2.0070 | 4250.0 | 99  | 27675 | No |
| 149 | GOM_NL__2PRFIN20070616_123118_000000582059_00066_27675_0222.N1 | 16-JUN-2007 12:31:18 | Dark          | 57.500 | 52  | 16Bet Cet | 2.0370 | 4500.0 | 115 | 27675 | No |
| 150 | GOM_NL__2PRFIN20070616_123730_000000452059_00066_27675_0223.N1 | 16-JUN-2007 12:37:30 | Dark          | 44.500 | 84  | Alp Phe   | 2.3970 | 4500.0 | 89  | 27675 | No |
| 151 | GOM_NL__2PRFIN20070616_124344_000000502059_00067_27676_0219.N1 | 16-JUN-2007 12:43:44 | Dark          | 49.500 | 63  | Bet Gru   | 2.1500 | 2800.0 | 99  | 27676 | No |
| 152 | GOM_NL__2PRFIN20070616_124547_000000492059_00067_27676_0220.N1 | 16-JUN-2007 12:45:47 | Dark          | 48.500 | 31  | Alp Gru   | 1.7340 | 15200. | 97  | 27676 | No |
| 153 | GOM_NL__2PRFIN20070616_124936_000000432059_00067_27676_0221.N1 | 16-JUN-2007 12:49:36 | Straylight    | 43.000 | 45  | Alp Pav   | 1.9400 | 26000. | 86  | 27676 | No |
| 154 | GOM_NL__2PRFIN20070616_125927_000000442059_00067_27676_0222.N1 | 16-JUN-2007 12:59:27 | Twi_and_stray | 43.500 | 25  | 35Lam Sco | 1.6200 | 28000. | 87  | 27676 | No |
| 155 | GOM_NL__2PRFIN20070616_130050_000000472059_00067_27676_0223.N1 | 16-JUN-2007 13:00:50 | Twi_and_stray | 46.500 | 167 | 10Gam2Sgr | 2.9840 | 4500.0 | 93  | 27676 | No |
| 156 | GOM_NL__2PRFIN20070616_130602_000000402059_00067_27676_0224.N1 | 16-JUN-2007 13:06:02 | Bright        | 39.500 | 86  | 35Eta Oph | 2.4300 | 10200. | 79  | 27676 | No |
| 157 | GOM_NL__2PRFIN20070616_131234_000000442059_00067_27676_0225.N1 | 16-JUN-2007 13:12:34 | Bright        | 44.000 | 126 | 60Bet Oph | 2.7700 | 4250.0 | 88  | 27676 | No |
| 158 | GOM_NL__2PRFIN20070616_131505_000000422059_00067_27676_0226.N1 | 16-JUN-2007 13:15:05 | Bright        | 41.500 | 59  | 55Alp Oph | 2.0800 | 8900.0 | 83  | 27676 | No |
| 159 | GOM_NL__2PRFIN20070616_131704_000000362059_00067_27676_0227.N1 | 16-JUN-2007 13:17:04 | Bright        | 35.500 | 127 | 27Bet Her | 2.7810 | 4700.0 | 71  | 27676 | No |
| 160 | GOM_NL__2PRFIN20070616_132006_000000392059_00067_27676_0228.N1 | 16-JUN-2007 13:20:06 | Bright        | 39.000 | 133 | 40Zet Her | 2.8070 | 6000.0 | 78  | 27676 | No |

|     |  |                      |               |        |     |           |        |        |     |       |    |
|-----|--|----------------------|---------------|--------|-----|-----------|--------|--------|-----|-------|----|
| 161 | GOM_NL__2PRFIN20070616_132654_000000412059_00067_27676_0229.N1 | 16-JUN-2007 13:26:54 | Bright        | 40.500 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 81  | 27676 | No |
| 162 | GOM_NL__2PRFIN20070616_132829_000000372059_00067_27676_0230.N1 | 16-JUN-2007 13:28:29 | Bright        | 37.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 74  | 27676 | No |
| 163 | GOM_NL__2PRFIN20070616_134344_000000432059_00067_27676_0231.N1 | 16-JUN-2007 13:43:44 | Bright        | 42.500 | 74  | 11Bet Cas | 2.2680 | 6600.0 | 85  | 27676 | No |
| 164 | GOM_NL__2PRFIN20070616_134508_000000432059_00067_27676_0232.N1 | 16-JUN-2007 13:45:08 | Bright        | 42.500 | 68  | 18Alp Cas | 2.2250 | 4500.0 | 85  | 27676 | No |
| 165 | GOM_NL__2PRFIN20070616_135018_000000572059_00067_27676_0233.N1 | 16-JUN-2007 13:50:18 | Bright        | 57.000 | 73  | 57Gam1And | 2.2600 | 13100. | 114 | 27676 | No |
| 166 | GOM_NL__2PRFIN20070616_135234_000000412059_00067_27676_0234.N1 | 16-JUN-2007 13:52:34 | Bright        | 40.500 | 173 | 4Bet Tri  | 3.0040 | 8900.0 | 81  | 27676 | No |
| 167 | GOM_NL__2PRFIN20070616_135609_000000562059_00067_27676_0235.N1 | 16-JUN-2007 13:56:09 | Twilight      | 55.500 | 50  | 13Alp Ari | 2.0070 | 4250.0 | 111 | 27676 | No |
| 168 | GOM_NL__2PRFIN20070616_141155_000000592059_00067_27676_0236.N1 | 16-JUN-2007 14:11:55 | Dark          | 59.000 | 52  | 16Bet Cet | 2.0370 | 4500.0 | 118 | 27676 | No |
| 169 | GOM_NL__2PRFIN20070616_141807_000000502059_00067_27676_0237.N1 | 16-JUN-2007 14:18:07 | Dark          | 49.500 | 84  | Alp Phe   | 2.3970 | 4500.0 | 99  | 27676 | No |
| 170 | GOM_NL__2PRFIN20070616_142421_000000532059_00068_27677_0330.N1 | 16-JUN-2007 14:24:21 | Dark          | 53.000 | 63  | Bet Gru   | 2.1500 | 2800.0 | 106 | 27677 | No |
| 171 | GOM_NL__2PRFIN20070616_142624_000000502059_00068_27677_0331.N1 | 16-JUN-2007 14:26:24 | Dark          | 50.000 | 31  | Alp Gru   | 1.7340 | 15200. | 100 | 27677 | No |
| 172 | GOM_NL__2PRFIN20070616_143012_000000452059_00068_27677_0332.N1 | 16-JUN-2007 14:30:12 | Straylight    | 44.500 | 45  | Alp Pav   | 1.9400 | 26000. | 89  | 27677 | No |
| 173 | GOM_NL__2PRFIN20070616_144003_000000432059_00068_27677_0333.N1 | 16-JUN-2007 14:40:03 | Twi_and_stray | 43.000 | 25  | 35Lam Sco | 1.6200 | 28000. | 86  | 27677 | No |
| 174 | GOM_NL__2PRFIN20070616_144126_000000442059_00068_27677_0334.N1 | 16-JUN-2007 14:41:26 | Twi_and_stray | 43.500 | 167 | 10Gam2Sgr | 2.9840 | 4500.0 | 87  | 27677 | No |
| 175 | GOM_NL__2PRFIN20070616_144638_000000392059_00068_27677_0335.N1 | 16-JUN-2007 14:46:38 | Bright        | 39.000 | 86  | 35Eta Oph | 2.4300 | 10200. | 78  | 27677 | No |
| 176 | GOM_NL__2PRFIN20070616_145310_000000432059_00068_27677_0336.N1 | 16-JUN-2007 14:53:10 | Bright        | 42.500 | 126 | 60Bet Oph | 2.7700 | 4250.0 | 85  | 27677 | No |
| 177 | GOM_NL__2PRFIN20070616_145541_000000422059_00068_27677_0337.N1 | 16-JUN-2007 14:55:41 | Bright        | 41.500 | 59  | 55Alp Oph | 2.0800 | 8900.0 | 83  | 27677 | No |
| 178 | GOM_NL__2PRFIN20070616_145740_000000362059_00068_27677_0338.N1 | 16-JUN-2007 14:57:40 | Bright        | 36.000 | 127 | 27Bet Her | 2.7810 | 4700.0 | 72  | 27677 | No |
| 179 | GOM_NL__2PRFIN20070616_150042_000000382059_00068_27677_0339.N1 | 16-JUN-2007 15:00:42 | Bright        | 37.500 | 133 | 40Zet Her | 2.8070 | 6000.0 | 75  | 27677 | No |
| 180 | GOM_NL__2PRFIN20070616_150730_000000402059_00068_27677_0340.N1 | 16-JUN-2007 15:07:30 | Bright        | 40.000 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 80  | 27677 | No |
| 181 | GOM_NL__2PRFIN20070616_150904_000000362059_00068_27677_0341.N1 | 16-JUN-2007 15:09:04 | Bright        | 35.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 71  | 27677 | No |
| 182 | GOM_NL__2PRFIN20070616_152420_000000492059_00068_27677_0342.N1 | 16-JUN-2007 15:24:20 | Bright        | 49.000 | 74  | 11Bet Cas | 2.2680 | 6600.0 | 98  | 27677 | No |
| 183 | GOM_NL__2PRFIN20070616_152544_000000632059_00068_27677_0343.N1 | 16-JUN-2007 15:25:44 | Bright        | 63.000 | 68  | 18Alp Cas | 2.2250 | 4500.0 | 126 | 27677 | No |
| 184 | GOM_NL__2PRFIN20070616_153054_000000412059_00068_27677_0344.N1 | 16-JUN-2007 15:30:54 | Bright        | 40.500 | 73  | 57Gam1And | 2.2600 | 13100. | 81  | 27677 | No |
| 185 | GOM_NL__2PRFIN20070616_153310_000000402059_00068_27677_0345.N1 | 16-JUN-2007 15:33:10 | Bright        | 40.000 | 173 | 4Bet Tri  | 3.0040 | 8900.0 | 80  | 27677 | No |
| 186 | GOM_NL__2PRFIN20070616_153646_000000482059_00068_27677_0346.N1 | 16-JUN-2007 15:36:46 | Twilight      | 47.500 | 50  | 13Alp Ari | 2.0070 | 4250.0 | 95  | 27677 | No |
| 187 | GOM_NL__2PRFIN20070616_155232_000000642059_00068_27677_0347.N1 | 16-JUN-2007 15:52:32 | Dark          | 64.000 | 52  | 16Bet Cet | 2.0370 | 4500.0 | 128 | 27677 | No |
| 188 | GOM_NL__2PRFIN20070616_155844_000000522059_00068_27677_0348.N1 | 16-JUN-2007 15:58:44 | Dark          | 52.000 | 84  | Alp Phe   | 2.3970 | 4500.0 | 104 | 27677 | No |
| 189 | GOM_NL__2PRFIN20070616_160458_000000502059_00069_27678_0328.N1 | 16-JUN-2007 16:04:58 | Dark          | 50.000 | 63  | Bet Gru   | 2.1500 | 2800.0 | 100 | 27678 | No |
| 190 | GOM_NL__2PRFIN20070616_160701_000000502059_00069_27678_0329.N1 | 16-JUN-2007 16:07:01 | Straylight    | 50.000 | 31  | Alp Gru   | 1.7340 | 15200. | 100 | 27678 | No |
| 191 | GOM_NL__2PRFIN20070616_161049_000000432059_00069_27678_0330.N1 | 16-JUN-2007 16:10:49 | Straylight    | 42.500 | 45  | Alp Pav   | 1.9400 | 26000. | 85  | 27678 | No |
| 192 | GOM_NL__2PRFIN20070616_162039_000000432059_00069_27678_0331.N1 | 16-JUN-2007 16:20:39 | Twi_and_stray | 43.000 | 25  | 35Lam Sco | 1.6200 | 28000. | 86  | 27678 | No |
| 193 | GOM_NL__2PRFIN20070616_162203_000000462059_00069_27678_0332.N1 | 16-JUN-2007 16:22:03 | Twi_and_stray | 45.500 | 167 | 10Gam2Sgr | 2.9840 | 4500.0 | 91  | 27678 | No |
| 194 | GOM_NL__2PRFIN20070616_162714_000000392059_00069_27678_0333.N1 | 16-JUN-2007 16:27:14 | Bright        | 39.000 | 86  | 35Eta Oph | 2.4300 | 10200. | 78  | 27678 | No |
| 195 | GOM_NL__2PRFIN20070616_163346_000000442059_00069_27678_0334.N1 | 16-JUN-2007 16:33:46 | Bright        | 43.500 | 126 | 60Bet Oph | 2.7700 | 4250.0 | 87  | 27678 | No |
| 196 | GOM_NL__2PRFIN20070616_163616_000000432059_00069_27678_0335.N1 | 16-JUN-2007 16:36:16 | Bright        | 42.500 | 59  | 55Alp Oph | 2.0800 | 8900.0 | 85  | 27678 | No |
| 197 | GOM_NL__2PRFIN20070616_163816_000000362059_00069_27678_0336.N1 | 16-JUN-2007 16:38:16 | Bright        | 36.000 | 127 | 27Bet Her | 2.7810 | 4700.0 | 72  | 27678 | No |
| 198 | GOM_NL__2PRFIN20070616_164118_000000392059_00069_27678_0337.N1 | 16-JUN-2007 16:41:18 | Bright        | 39.000 | 133 | 40Zet Her | 2.8070 | 6000.0 | 78  | 27678 | No |
| 199 | GOM_NL__2PRFIN20070616_164805_000000392059_00069_27678_0338.N1 | 16-JUN-2007 16:48:05 | Bright        | 39.000 | 130 | 23Bet Dra | 2.7990 | 5800.0 | 78  | 27678 | No |
| 200 | GOM_NL__2PRFIN20070616_164940_000000382059_00069_27678_0339.N1 | 16-JUN-2007 16:49:40 | Bright        | 37.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 75  | 27678 | No |
| 201 | GOM_NL__2PRFIN20070616_170456_000000422059_00069_27678_0340.N1 | 16-JUN-2007 17:04:56 | Bright        | 42.000 | 74  | 11Bet Cas | 2.2680 | 6600.0 | 84  | 27678 | No |
| 202 | GOM_NL__2PRFIN20070616_170619_000000472059_00069_27678_0341.N1 | 16-JUN-2007 17:06:19 | Bright        | 46.500 | 68  | 18Alp Cas | 2.2250 | 4500.0 | 93  | 27678 | No |
| 203 | GOM_NL__2PRFIN20070616_171130_000000542059_00069_27678_0342.N1 | 16-JUN-2007 17:11:30 | Bright        | 53.500 | 73  | 57Gam1And | 2.2600 | 13100. | 107 | 27678 | No |
| 204 | GOM_NL__2PRFIN20070616_171346_000000402059_00069_27678_0343.N1 | 16-JUN-2007 17:13:46 | Bright        | 40.000 | 173 | 4Bet Tri  | 3.0040 | 8900.0 | 80  | 27678 | No |
| 205 | GOM_NL__2PRFIN20070616_171722_000000522059_00069_27678_0344.N1 | 16-JUN-2007 17:17:22 | Twilight      | 51.500 | 50  | 13Alp Ari | 2.0070 | 4250.0 | 103 | 27678 | No |
| 206 | GOM_NL__2PRFIN20070616_173309_000000552059_00069_27678_0345.N1 | 16-JUN-2007 17:33:09 | Dark          | 55.000 | 52  | 16Bet Cet | 2.0370 | 4500.0 | 110 | 27678 | No |
| 207 | GOM_NL__2PRFIN20070616_173920_000000522059_00069_27678_0346.N1 | 16-JUN-2007 17:39:20 | Dark          | 52.000 | 84  | Alp Phe   | 2.3970 | 4500.0 | 104 | 27678 | No |
| 208 | GOM_NL__2PRFIN20070616_192603_000000382059_00071_27680_0326.N1 | 16-JUN-2007 19:26:03 | Dark          | 37.500 | 135 | Bet Hyi   | 2.8200 | 5800.0 | 75  | 27680 | No |
| 209 | GOM_NL__2PRFIN20070616_193702_000000452059_00071_27680_0327.N1 | 16-JUN-2007 19:37:02 | Straylight    | 44.500 | 141 | Bet Ara   | 2.8400 | 4600.0 | 89  | 27680 | No |
| 210 | GOM_NL__2PRFIN20070616_193824_000000372059_00071_27680_0328.N1 | 16-JUN-2007 19:38:24 | Straylight    | 37.000 | 147 | Alp Ara   | 2.8770 | 26000. | 74  | 27680 | No |
| 211 | GOM_NL__2PRFIN20070616_194009_000000382059_00071_27680_0329.N1 | 16-JUN-2007 19:40:09 | Twi_and_stray | 37.500 | 40  | The Sco   | 1.8590 | 7100.0 | 75  | 27680 | No |
| 212 | GOM_NL__2PRFIN20070616_194152_000000422059_00071_27680_0330.N1 | 16-JUN-2007 19:41:52 | Twi_and_stray | 42.000 | 25  | 35Lam Sco | 1.6200 | 28000. | 84  | 27680 | No |
| 213 | GOM_NL__2PRFIN20070616_194318_000000422059_00071_27680_0331.N1 | 16-JUN-2007 19:43:18 | Twi_and_stray | 41.500 | 75  | 26Eps Sco | 2.2910 | 4250.0 | 83  | 27680 | No |
| 214 | GOM_NL__2PRFIN20070616_194604_000000362059_00071_27680_0332.N1 | 16-JUN-2007 19:46:04 | Bright        | 36.000 | 156 | 20Sig Sco | 2.9030 | 28000. | 72  | 27680 | No |
| 215 | GOM_NL__2PRFIN20070616_194751_000000362059_00071_27680_0333.N1 | 16-JUN-2007 19:47:51 | Bright        | 36.000 | 97  | 8Bet1Sco  | 2.5610 | 30000. | 72  | 27680 | No |
| 216 | GOM_NL__2PRFIN20070616_195010_000000372059_00071_27680_0334.N1 | 16-JUN-2007 19:50:10 | Bright        | 37.000 | 98  | 13Zet Oph | 2.5710 | 30000. | 74  | 27680 | No |
| 217 | GOM_NL__2PRFIN20070616_195216_000000372059_00071_27680_0335.N1 | 16-JUN-2007 19:52:16 | Bright        | 36.500 | 120 | 1Del Oph  | 2.7340 | 3200.0 | 73  | 27680 | No |
| 218 | GOM_NL__2PRFIN20070616_195519_000000352059_00071_27680_0336.N1 | 16-JUN-2007 19:55:19 | Bright        | 35.000 | 102 | 24Alp Ser | 2.6000 | 4250.0 | 70  | 27680 | No |
| 219 | GOM_NL__2PRFIN20070616_200101_000000352059_00071_27680_0337.N1 | 16-JUN-2007 20:01:01 | Bright        | 35.000 | 67  | 5Alp CrB  | 2.2210 | 11000. | 70  | 27680 | No |

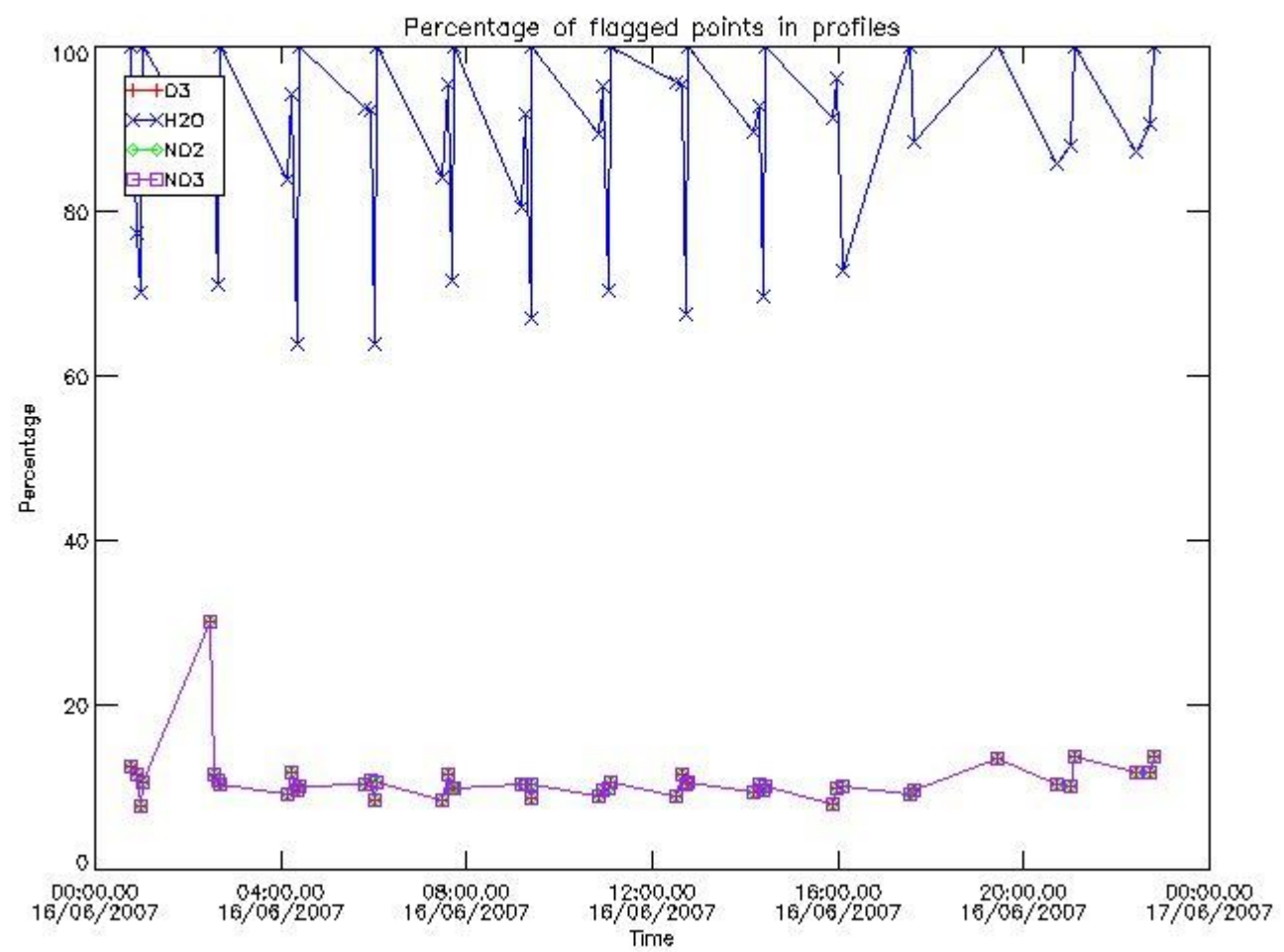


|     |  |                      |               |        |     |           |         |        |     |       |    |
|-----|--|----------------------|---------------|--------|-----|-----------|---------|--------|-----|-------|----|
| 220 | GOM_NL__2PRFIN20070616_201052_000000382059_00071_27680_0338.N1 | 16-JUN-2007 20:10:52 | Bright        | 38.000 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 76  | 27680 | No |
| 221 | GOM_NL__2PRFIN20070616_201421_000000372059_00071_27680_0339.N1 | 16-JUN-2007 20:14:21 | Bright        | 37.000 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 74  | 27680 | No |
| 222 | GOM_NL__2PRFIN20070616_201858_000000362059_00071_27680_0340.N1 | 16-JUN-2007 20:18:58 | Bright        | 36.000 | 49  | 1Alp UMi  | 1.9900  | 6300.0 | 72  | 27680 | No |
| 223 | GOM_NL__2PRFIN20070616_202914_000000332059_00071_27680_0341.N1 | 16-JUN-2007 20:29:14 | Bright        | 33.000 | 160 | 23Gam Per | 2.9300  | 4700.0 | 66  | 27680 | No |
| 224 | GOM_NL__2PRFIN20070616_204320_000000492059_00071_27680_0342.N1 | 16-JUN-2007 20:43:20 | Dark          | 49.000 | 94  | 92Alp Cet | 2.5260  | 3100.0 | 98  | 27680 | No |
| 225 | GOM_NL__2PRFIN20070616_210115_000000502059_00071_27680_0343.N1 | 16-JUN-2007 21:01:15 | Dark          | 50.000 | 9   | Alp Eri   | 0.45300 | 24000. | 100 | 27680 | No |
| 226 | GOM_NL__2PRFIN20070616_210639_000000372059_00072_27681_0330.N1 | 16-JUN-2007 21:06:39 | Dark          | 37.000 | 135 | Bet Hyi   | 2.8200  | 5800.0 | 74  | 27681 | No |
| 227 | GOM_NL__2PRFIN20070616_211738_000000422059_00072_27681_0331.N1 | 16-JUN-2007 21:17:38 | Straylight    | 42.000 | 141 | Bet Ara   | 2.8400  | 4600.0 | 84  | 27681 | No |
| 228 | GOM_NL__2PRFIN20070616_211900_000000372059_00072_27681_0332.N1 | 16-JUN-2007 21:19:00 | Straylight    | 37.000 | 147 | Alp Ara   | 2.8770  | 26000. | 74  | 27681 | No |
| 229 | GOM_NL__2PRFIN20070616_212045_000000432059_00072_27681_0333.N1 | 16-JUN-2007 21:20:45 | Twi_and_stray | 43.000 | 40  | The Sco   | 1.8590  | 7100.0 | 86  | 27681 | No |
| 230 | GOM_NL__2PRFIN20070616_212228_000000402059_00072_27681_0334.N1 | 16-JUN-2007 21:22:28 | Twi_and_stray | 40.000 | 25  | 35Lam Sco | 1.6200  | 28000. | 80  | 27681 | No |
| 231 | GOM_NL__2PRFIN20070616_212354_000000402059_00072_27681_0335.N1 | 16-JUN-2007 21:23:54 | Twi_and_stray | 39.500 | 75  | 26Eps Sco | 2.2910  | 4250.0 | 79  | 27681 | No |
| 232 | GOM_NL__2PRFIN20070616_212640_000000362059_00072_27681_0336.N1 | 16-JUN-2007 21:26:40 | Bright        | 36.000 | 156 | 20Sig Sco | 2.9030  | 28000. | 72  | 27681 | No |
| 233 | GOM_NL__2PRFIN20070616_212827_000000362059_00072_27681_0337.N1 | 16-JUN-2007 21:28:27 | Bright        | 35.500 | 97  | 8Bet1Sco  | 2.5610  | 30000. | 71  | 27681 | No |
| 234 | GOM_NL__2PRFIN20070616_213046_000000372059_00072_27681_0338.N1 | 16-JUN-2007 21:30:46 | Bright        | 36.500 | 98  | 13Zet Oph | 2.5710  | 30000. | 73  | 27681 | No |
| 235 | GOM_NL__2PRFIN20070616_213252_000000372059_00072_27681_0339.N1 | 16-JUN-2007 21:32:52 | Bright        | 36.500 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 73  | 27681 | No |
| 236 | GOM_NL__2PRFIN20070616_213555_000000362059_00072_27681_0340.N1 | 16-JUN-2007 21:35:55 | Bright        | 35.500 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 71  | 27681 | No |
| 237 | GOM_NL__2PRFIN20070616_214137_000000342059_00072_27681_0341.N1 | 16-JUN-2007 21:41:37 | Bright        | 34.000 | 67  | 5Alp CrB  | 2.2210  | 11000. | 68  | 27681 | No |
| 238 | GOM_NL__2PRFIN20070616_215128_000000352059_00072_27681_0342.N1 | 16-JUN-2007 21:51:28 | Bright        | 35.000 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 70  | 27681 | No |
| 239 | GOM_NL__2PRFIN20070616_215457_000000372059_00072_27681_0343.N1 | 16-JUN-2007 21:54:57 | Bright        | 37.000 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 74  | 27681 | No |
| 240 | GOM_NL__2PRFIN20070616_215934_000000362059_00072_27681_0344.N1 | 16-JUN-2007 21:59:34 | Bright        | 36.000 | 49  | 1Alp UMi  | 1.9900  | 6300.0 | 72  | 27681 | No |
| 241 | GOM_NL__2PRFIN20070616_220950_000000372059_00072_27681_0345.N1 | 16-JUN-2007 22:09:50 | Bright        | 37.000 | 160 | 23Gam Per | 2.9300  | 4700.0 | 74  | 27681 | No |
| 242 | GOM_NL__2PRFIN20070616_222356_000000432059_00072_27681_0346.N1 | 16-JUN-2007 22:23:56 | Dark          | 43.000 | 94  | 92Alp Cet | 2.5260  | 3100.0 | 86  | 27681 | No |
| 243 | GOM_NL__2PRFIN20070616_224151_000000432059_00072_27681_0347.N1 | 16-JUN-2007 22:41:51 | Dark          | 43.000 | 9   | Alp Eri   | 0.45300 | 24000. | 86  | 27681 | No |
| 244 | GOM_NL__2PRFIN20070616_224715_000000372059_00073_27682_0358.N1 | 16-JUN-2007 22:47:15 | Dark          | 37.000 | 135 | Bet Hyi   | 2.8200  | 5800.0 | 74  | 27682 | No |
| 245 | GOM_NL__2PRFIN20070616_225814_000000382059_00073_27682_0359.N1 | 16-JUN-2007 22:58:14 | Straylight    | 38.000 | 141 | Bet Ara   | 2.8400  | 4600.0 | 76  | 27682 | No |
| 246 | GOM_NL__2PRFIN20070616_225936_000000392059_00073_27682_0360.N1 | 16-JUN-2007 22:59:36 | Straylight    | 38.500 | 147 | Alp Ara   | 2.8770  | 26000. | 77  | 27682 | No |
| 247 | GOM_NL__2PRFIN20070616_230121_000000432059_00073_27682_0361.N1 | 16-JUN-2007 23:01:21 | Twi_and_stray | 43.000 | 40  | The Sco   | 1.8590  | 7100.0 | 86  | 27682 | No |
| 248 | GOM_NL__2PRFIN20070616_230304_000000432059_00073_27682_0362.N1 | 16-JUN-2007 23:03:04 | Twi_and_stray | 43.000 | 25  | 35Lam Sco | 1.6200  | 28000. | 86  | 27682 | No |
| 249 | GOM_NL__2PRFIN20070616_230430_000000432059_00073_27682_0363.N1 | 16-JUN-2007 23:04:30 | Twi_and_stray | 42.500 | 75  | 26Eps Sco | 2.2910  | 4250.0 | 85  | 27682 | No |
| 250 | GOM_NL__2PRFIN20070616_230716_000000362059_00073_27682_0364.N1 | 16-JUN-2007 23:07:16 | Bright        | 35.500 | 156 | 20Sig Sco | 2.9030  | 28000. | 71  | 27682 | No |
| 251 | GOM_NL__2PRFIN20070616_230902_000000362059_00073_27682_0365.N1 | 16-JUN-2007 23:09:02 | Bright        | 35.500 | 97  | 8Bet1Sco  | 2.5610  | 30000. | 71  | 27682 | No |
| 252 | GOM_NL__2PRFIN20070616_231122_000000372059_00073_27682_0366.N1 | 16-JUN-2007 23:11:22 | Bright        | 37.000 | 98  | 13Zet Oph | 2.5710  | 30000. | 74  | 27682 | No |
| 253 | GOM_NL__2PRFIN20070616_231328_000000362059_00073_27682_0367.N1 | 16-JUN-2007 23:13:28 | Bright        | 36.000 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 72  | 27682 | No |
| 254 | GOM_NL__2PRFIN20070616_231631_000000362059_00073_27682_0368.N1 | 16-JUN-2007 23:16:31 | Bright        | 36.000 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 72  | 27682 | No |
| 255 | GOM_NL__2PRFIN20070616_232213_000000372059_00073_27682_0369.N1 | 16-JUN-2007 23:22:13 | Bright        | 36.500 | 67  | 5Alp CrB  | 2.2210  | 11000. | 73  | 27682 | No |
| 256 | GOM_NL__2PRFIN20070616_233203_000000372059_00073_27682_0370.N1 | 16-JUN-2007 23:32:03 | Bright        | 36.500 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 73  | 27682 | No |
| 257 | GOM_NL__2PRFIN20070616_233533_000000342059_00073_27682_0371.N1 | 16-JUN-2007 23:35:33 | Bright        | 34.000 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 68  | 27682 | No |
| 258 | GOM_NL__2PRFIN20070616_234010_000000342059_00073_27682_0372.N1 | 16-JUN-2007 23:40:10 | Bright        | 34.000 | 49  | 1Alp UMi  | 1.9900  | 6300.0 | 68  | 27682 | No |
| 259 | GOM_NL__2PRFIN20070616_235026_000000402059_00073_27682_0373.N1 | 16-JUN-2007 23:50:26 | Bright        | 40.000 | 160 | 23Gam Per | 2.9300  | 4700.0 | 80  | 27682 | No |

### 3. Quality information per product

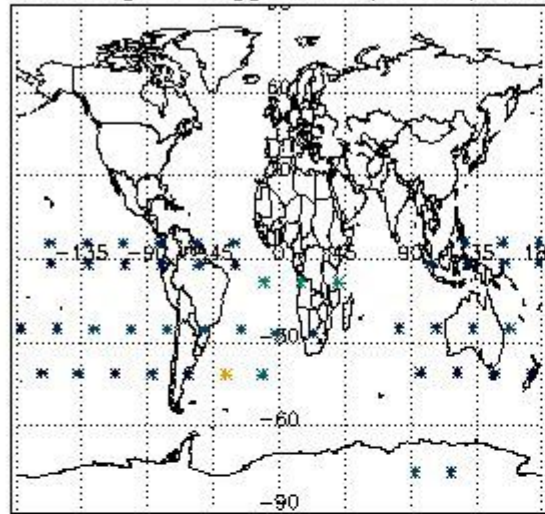
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

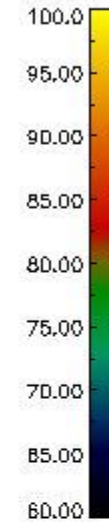
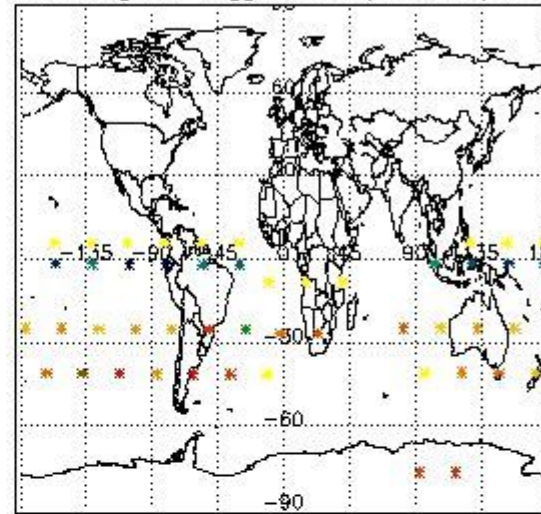


3.2 Plot quality information per product (world map)

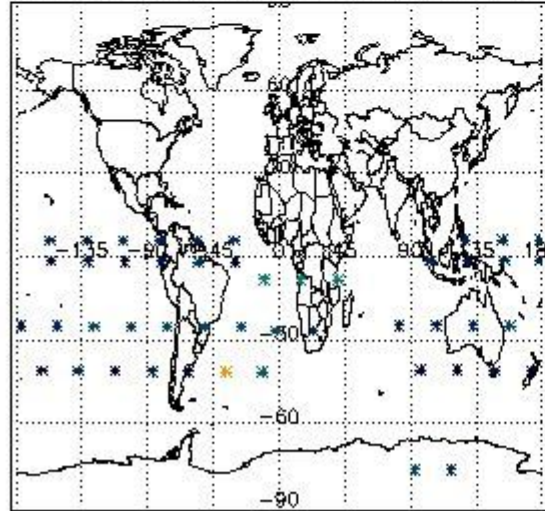
Percentage of flagged data per O3 profile



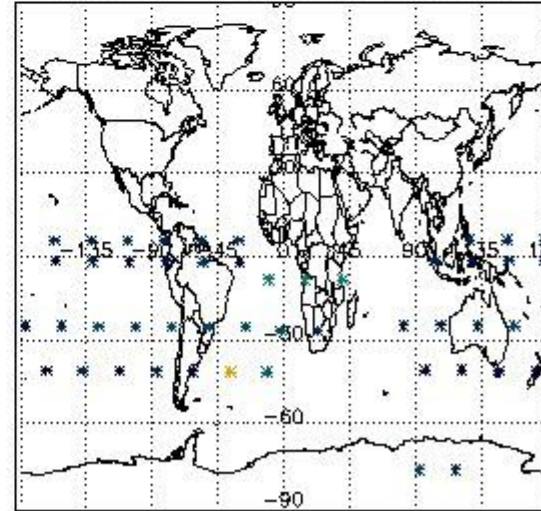
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

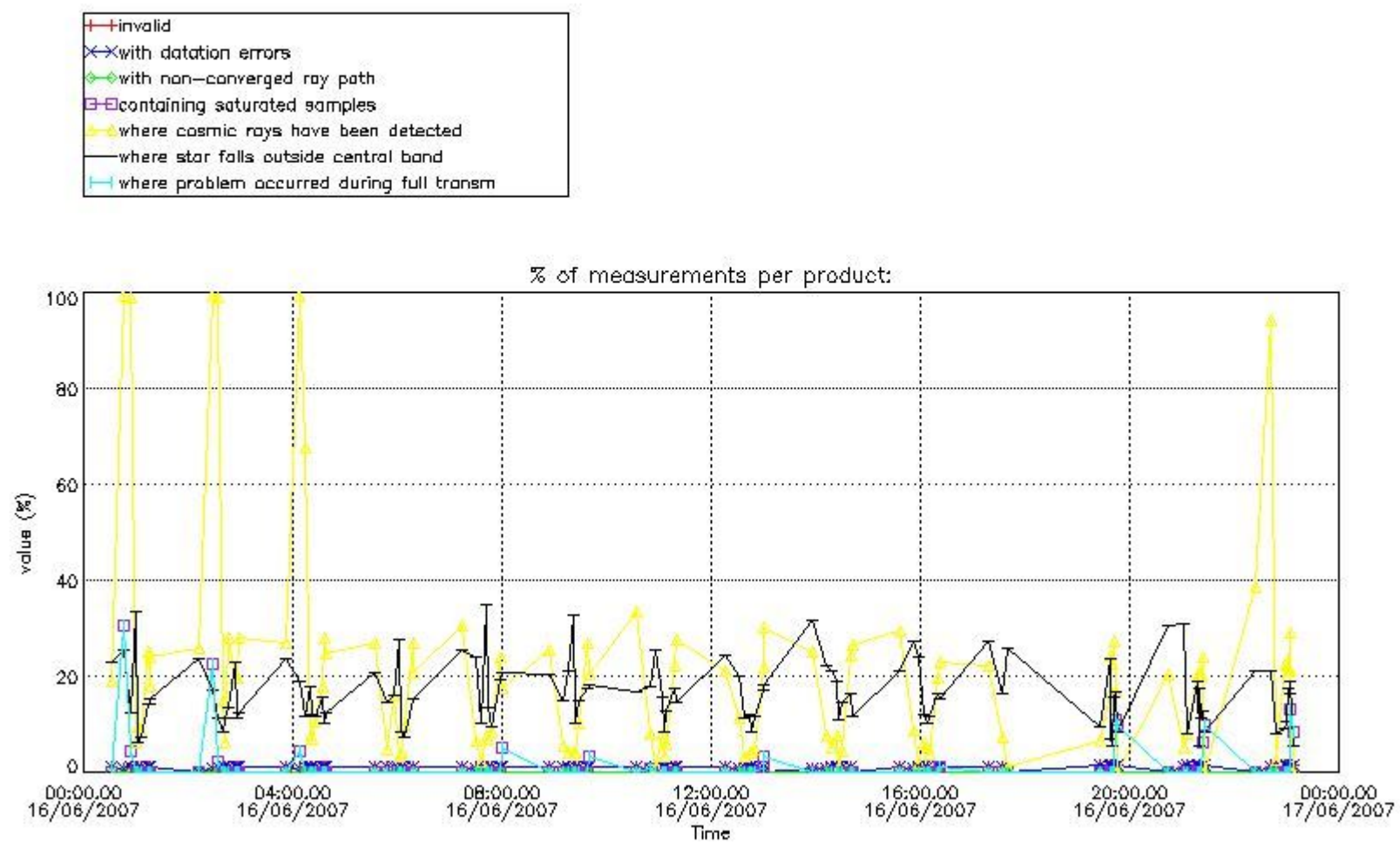


#### 4. Level 1 quality information per product

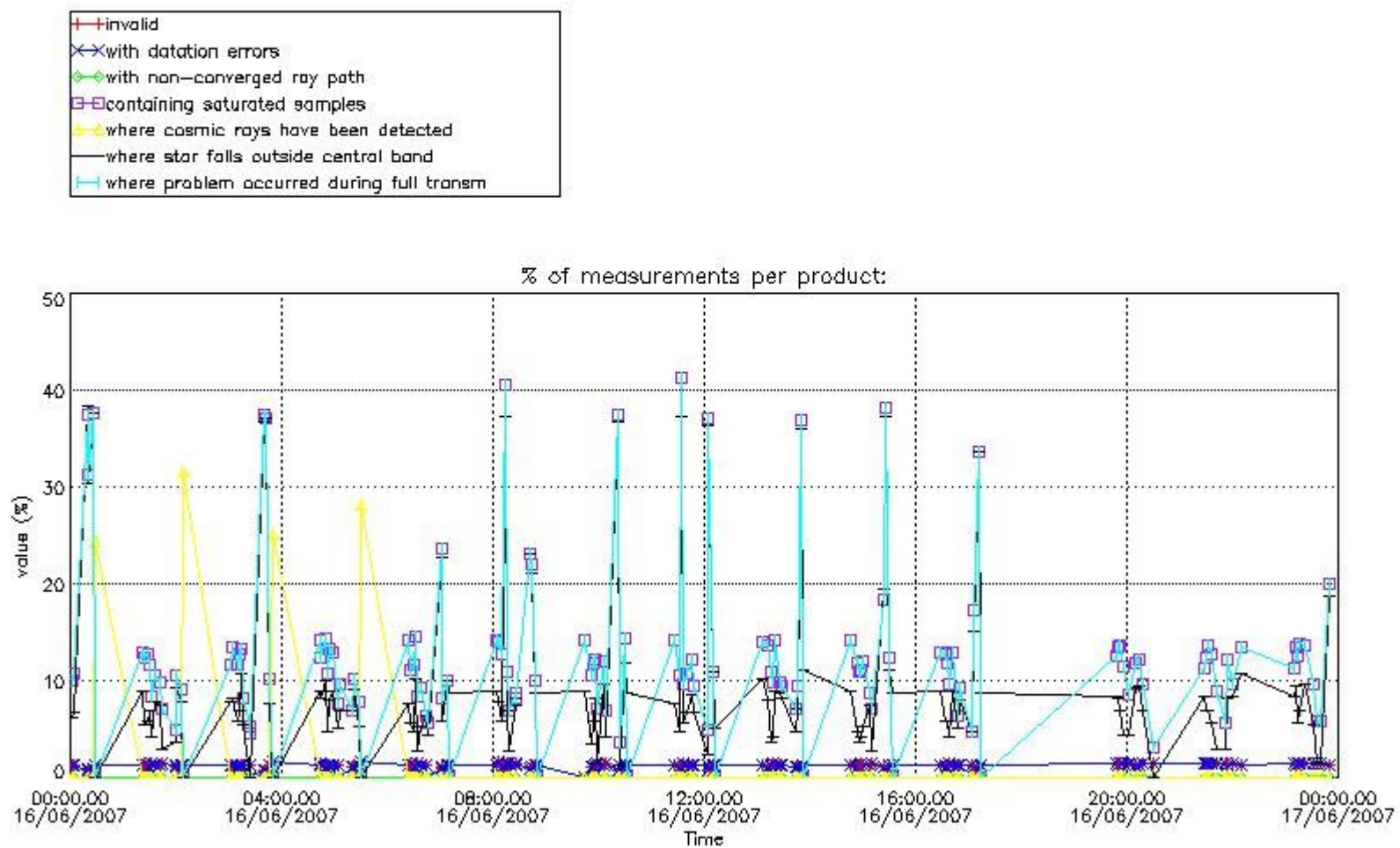
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



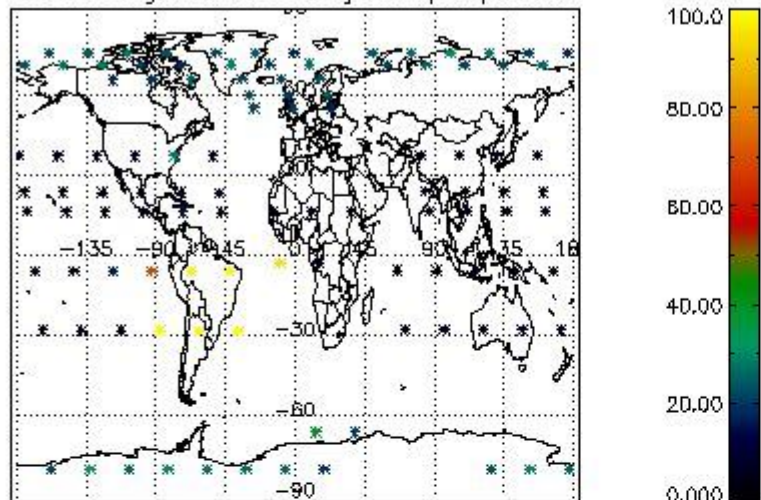
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



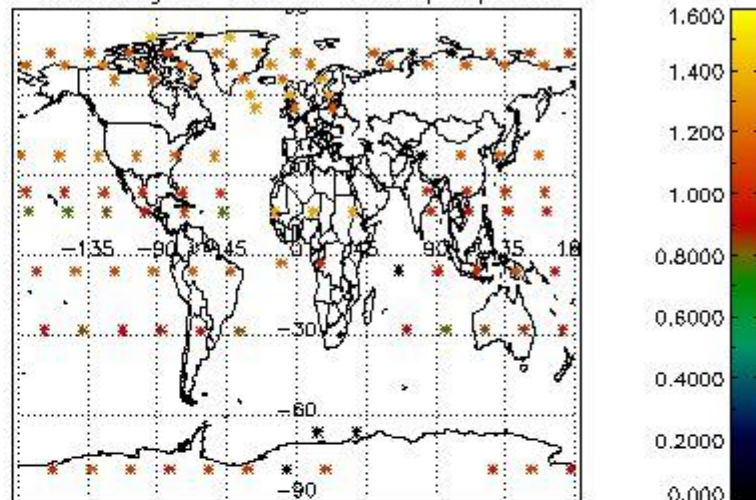
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

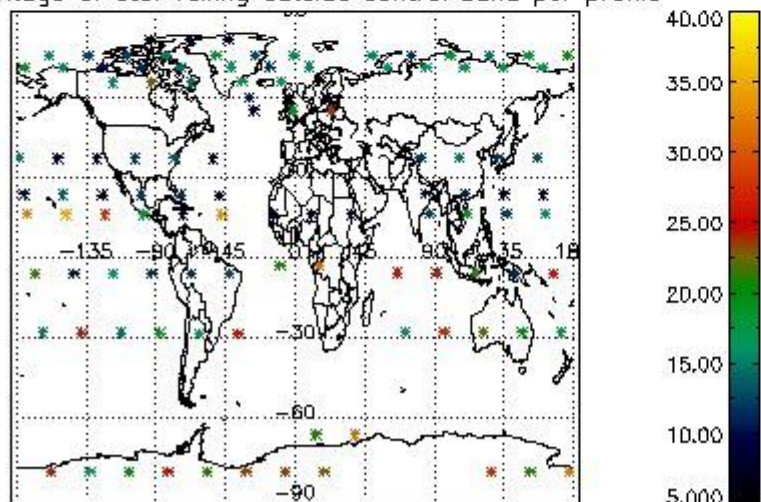
Percentage of cosmic ray hits per profile



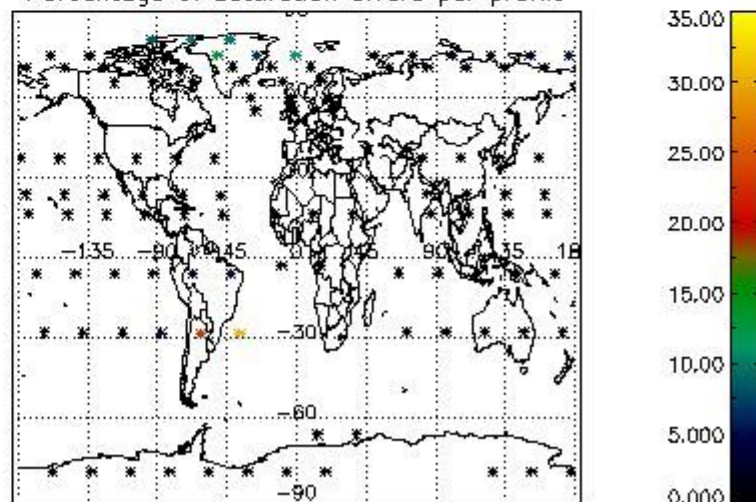
Percentage of datation errors per profile



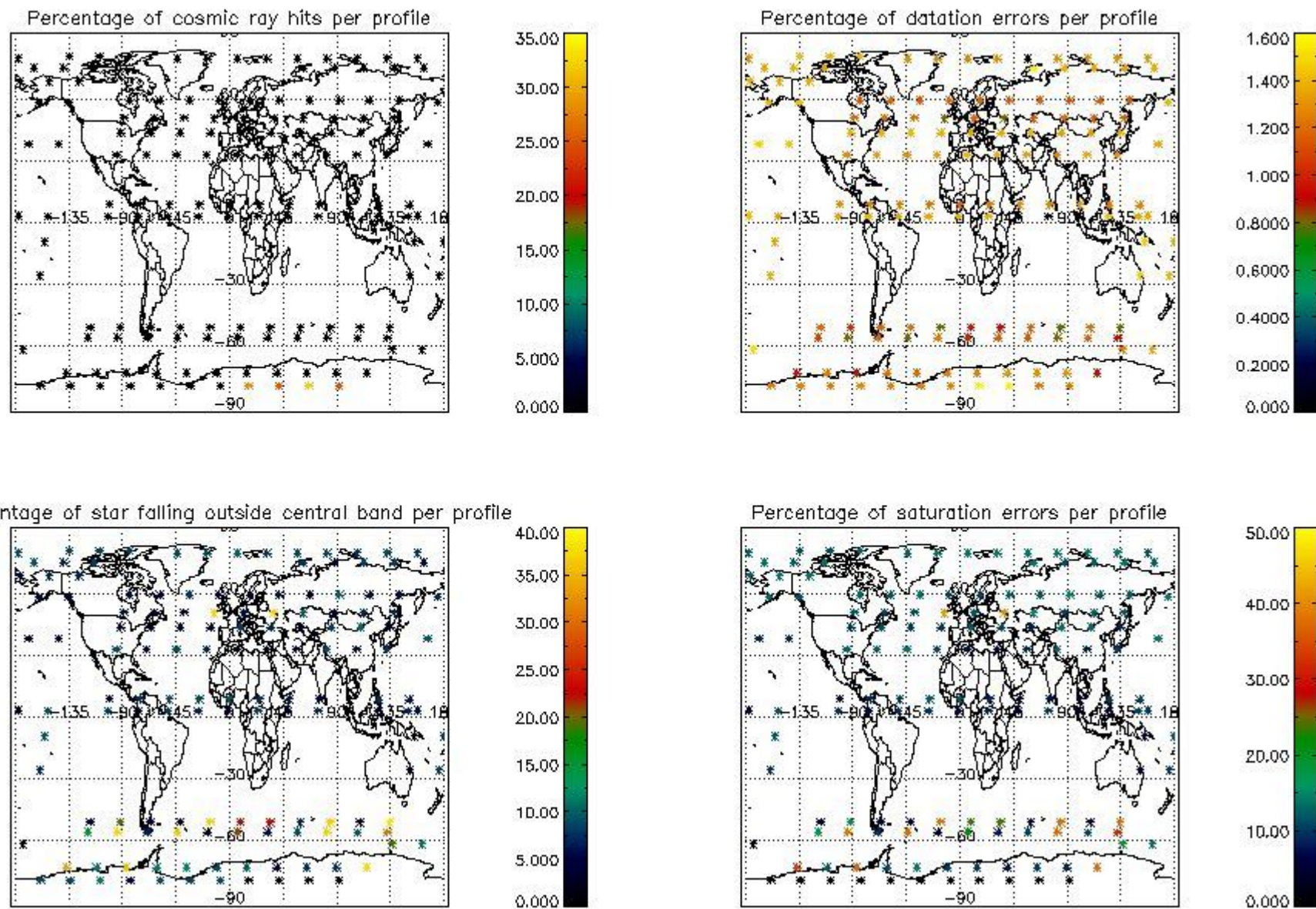
Percentage of star falling outside central band per profile



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

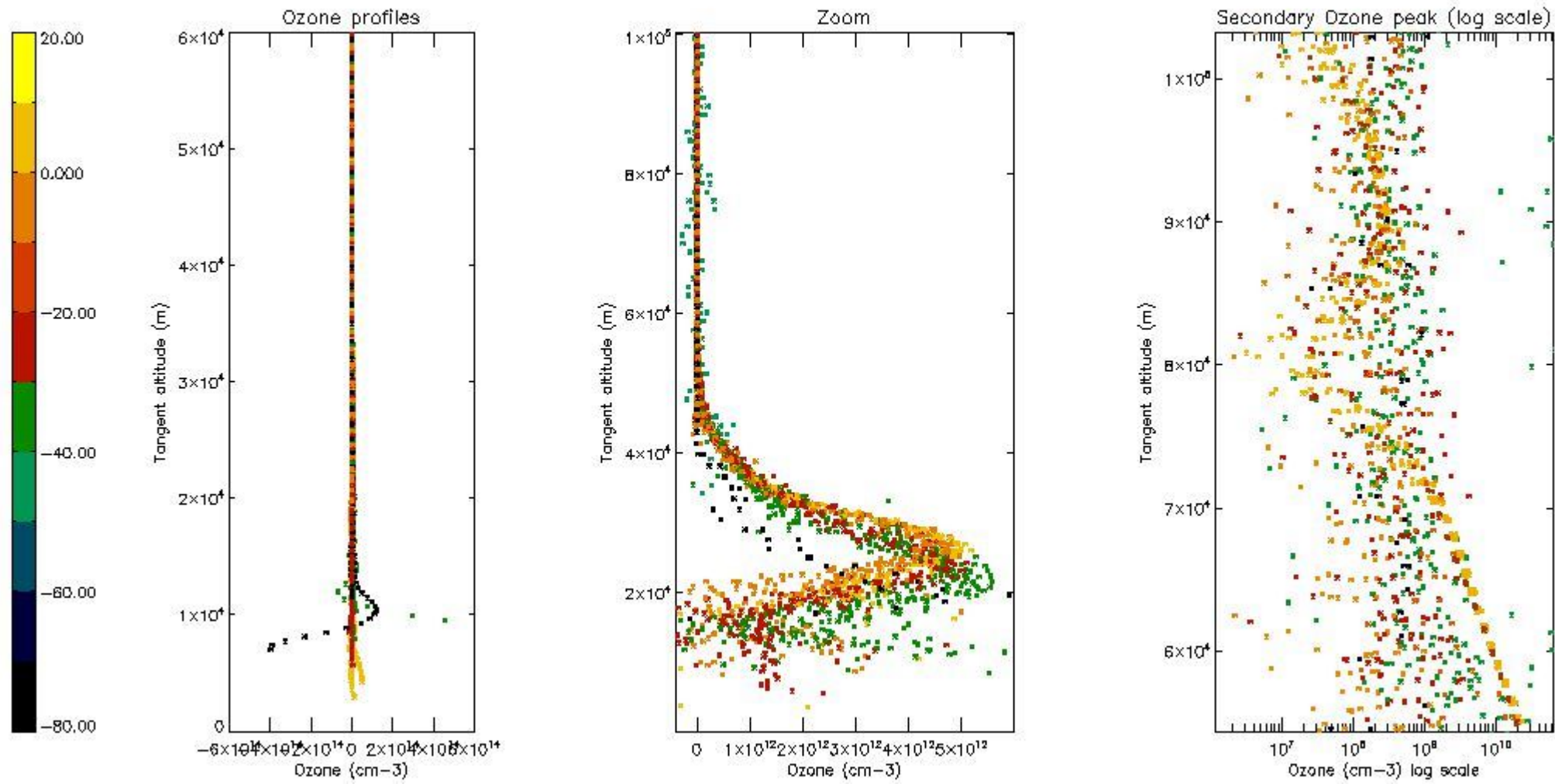
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

| Criteria | % of total production |
|----------|-----------------------|
| All STD  | 23                    |
| STD < 20 | 8                     |

|          |   |
|----------|---|
| STD < 10 | 5 |
| STD < 5  | 3 |

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

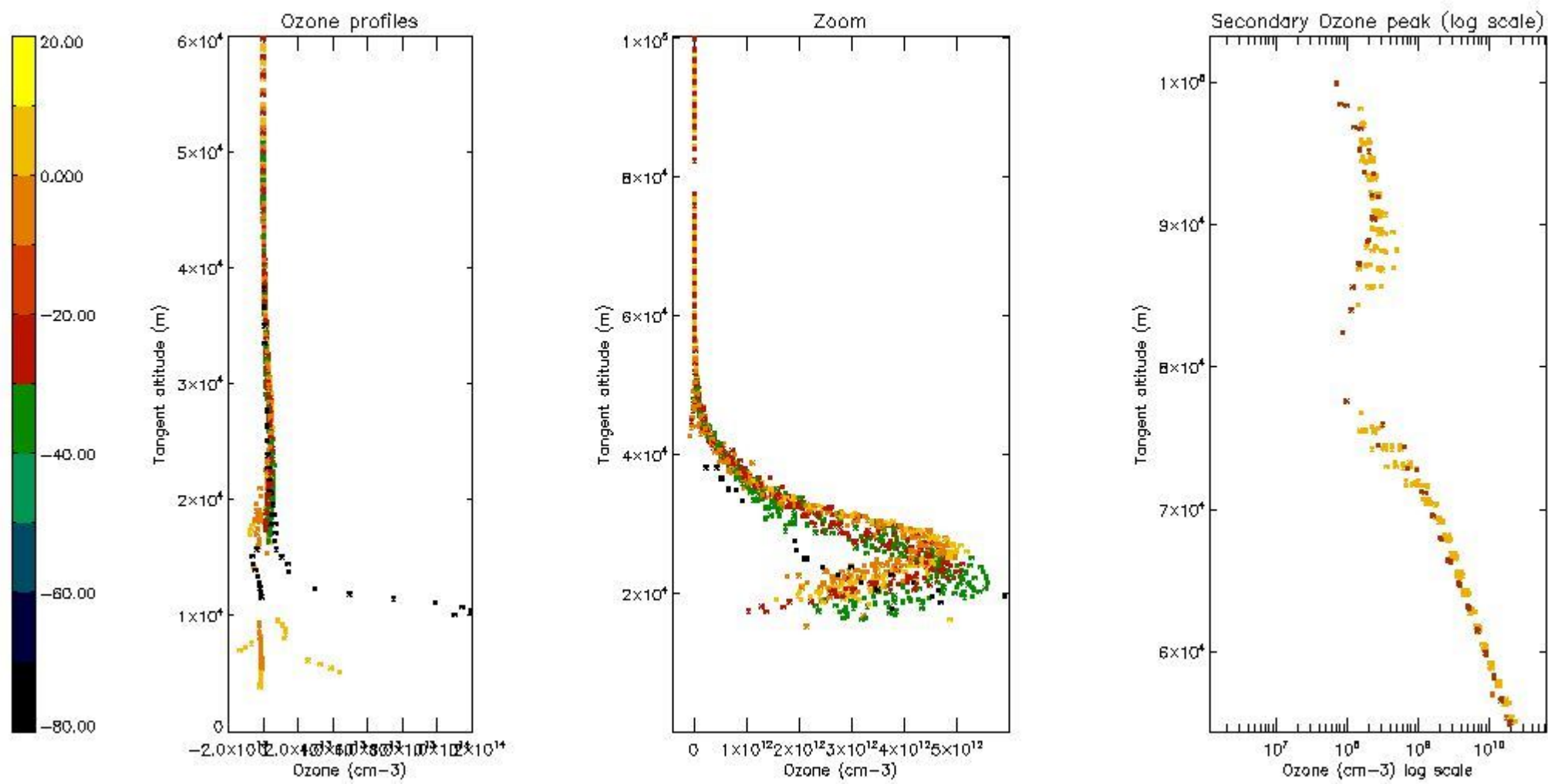
The colorbar represents the latitude.



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

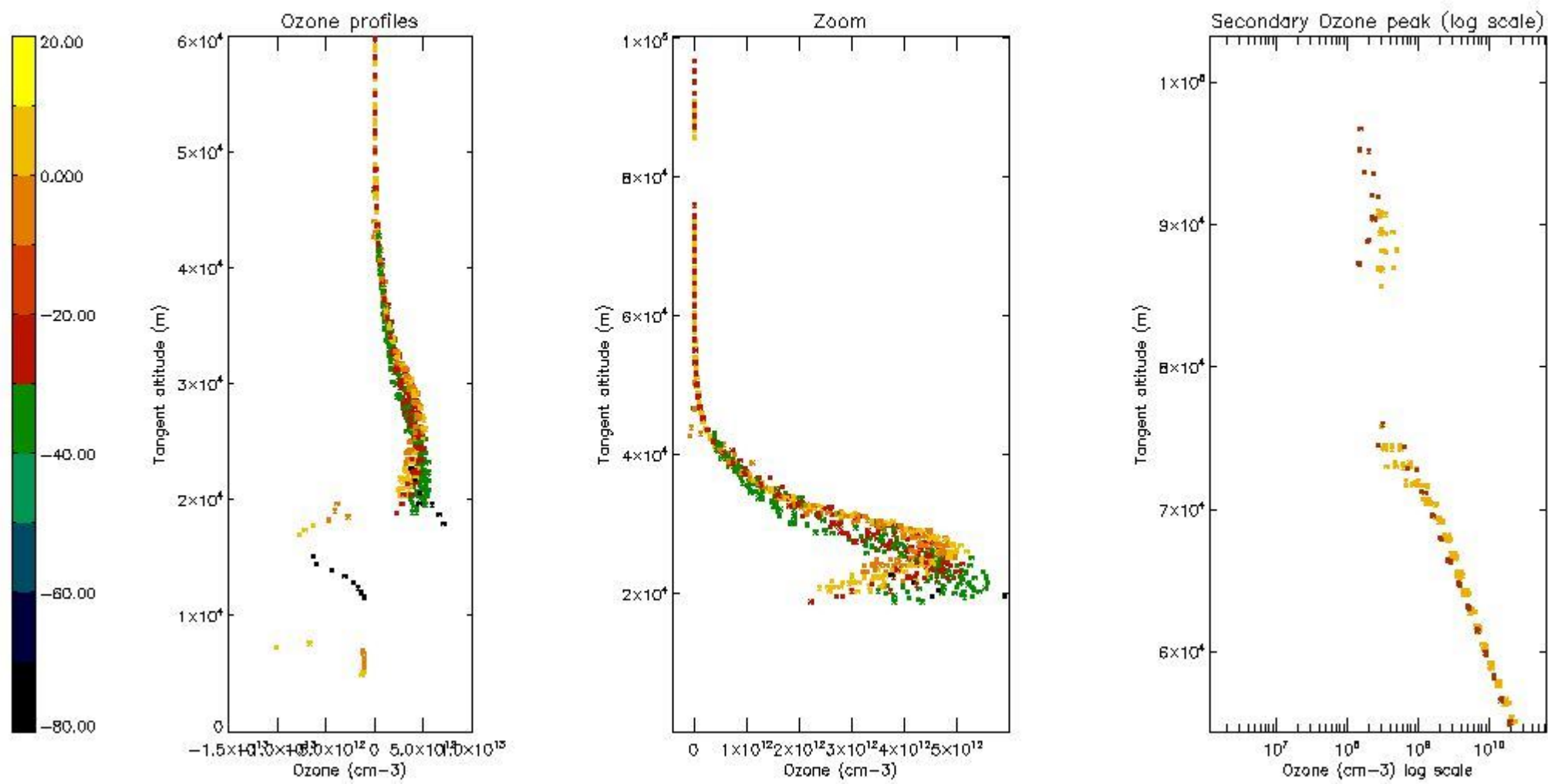
The colorbar represents the latitude.





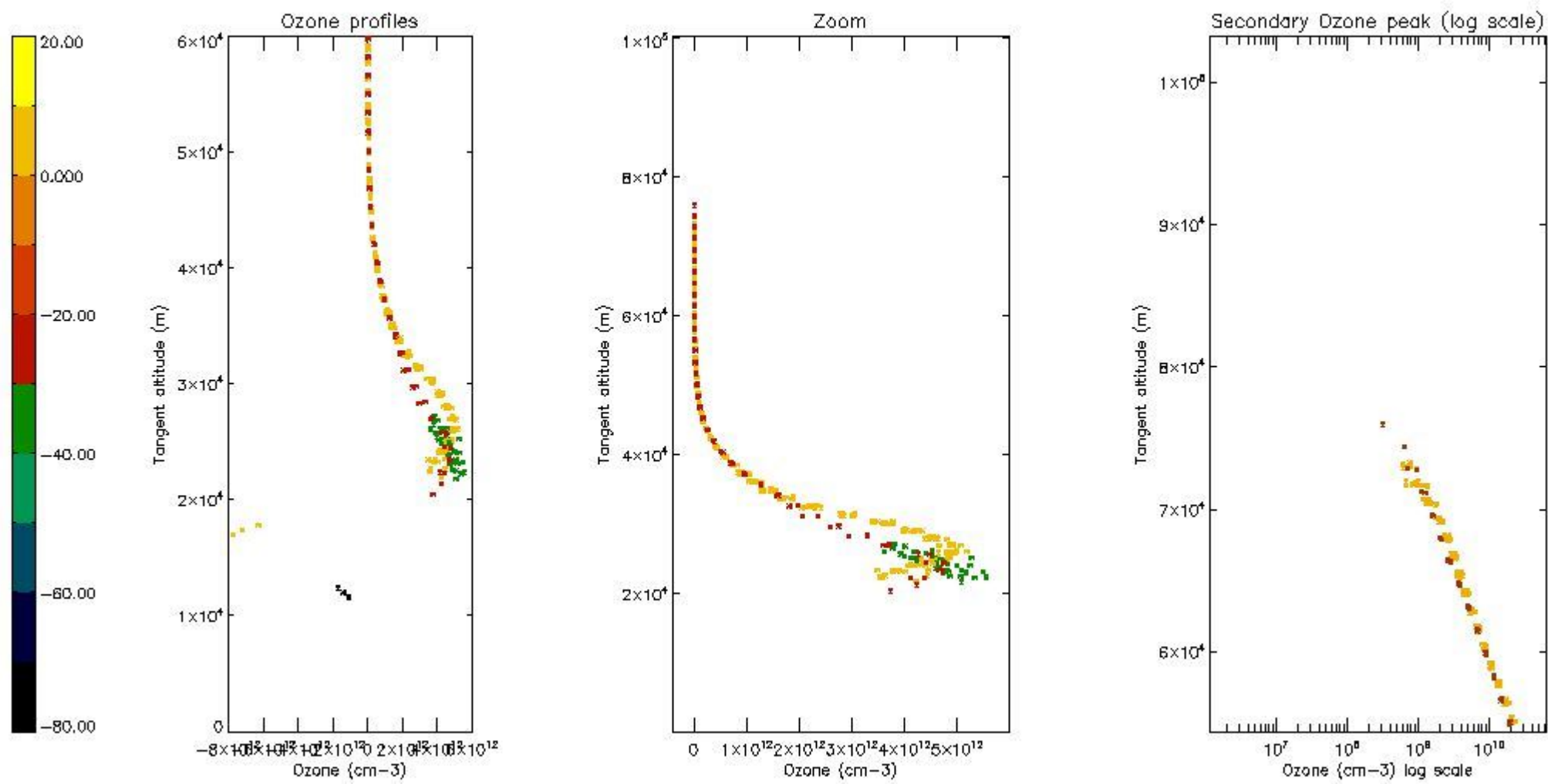
5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)

The colorbar represents the latitude.



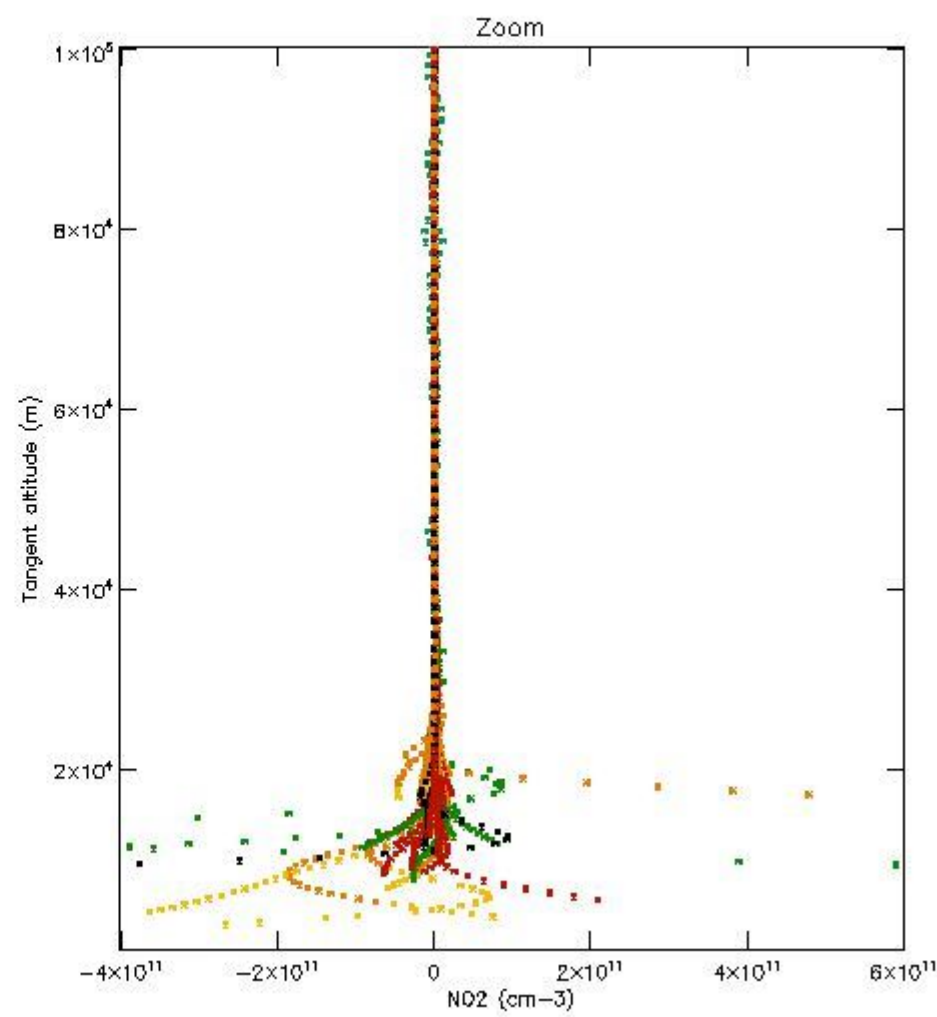
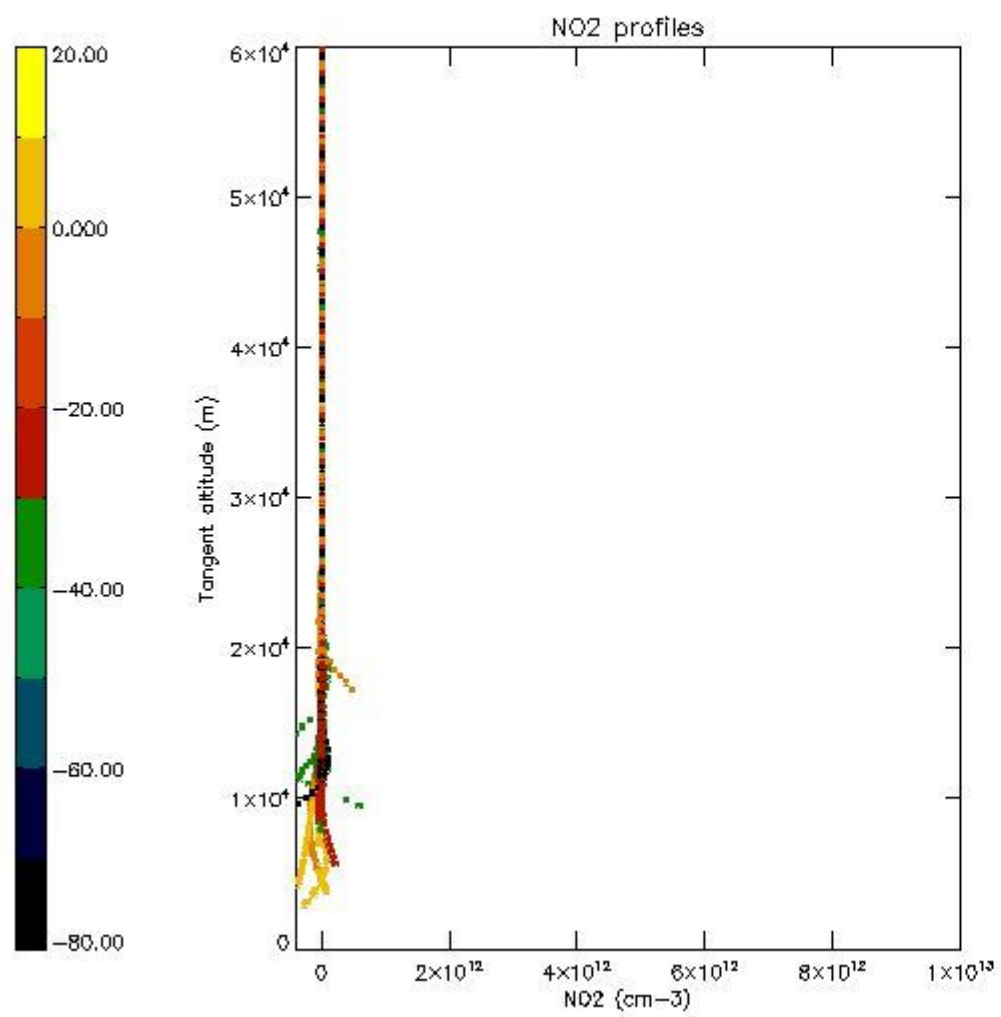
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



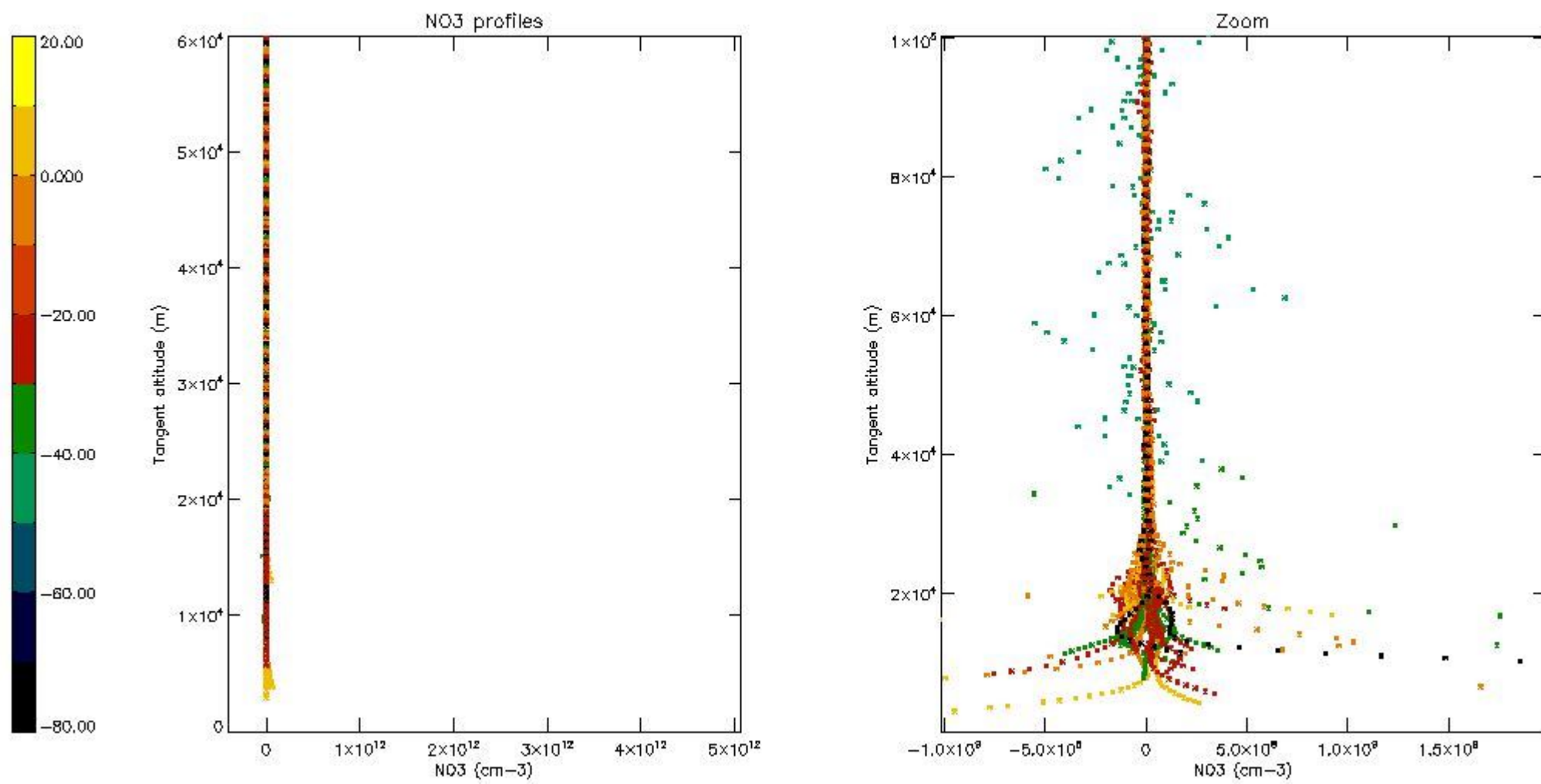
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



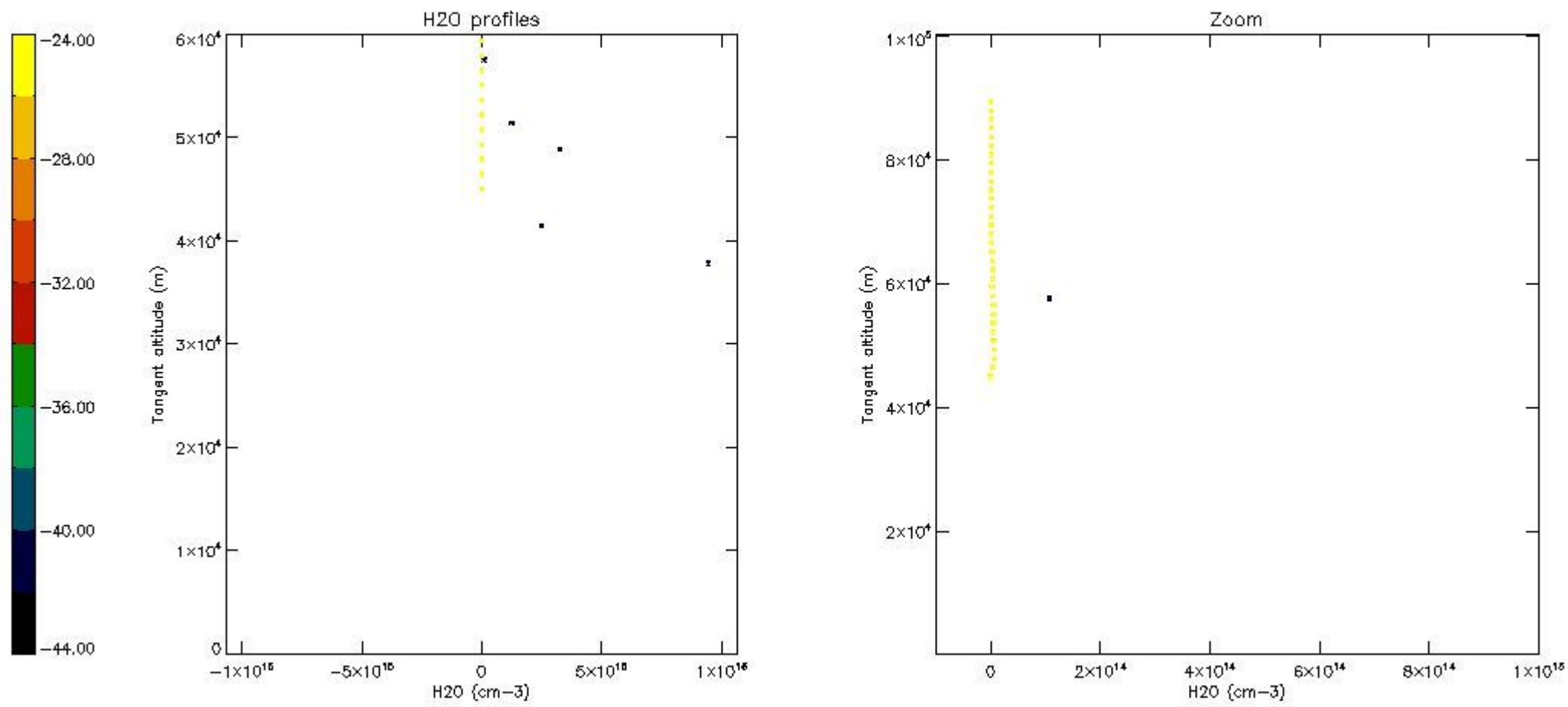
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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)

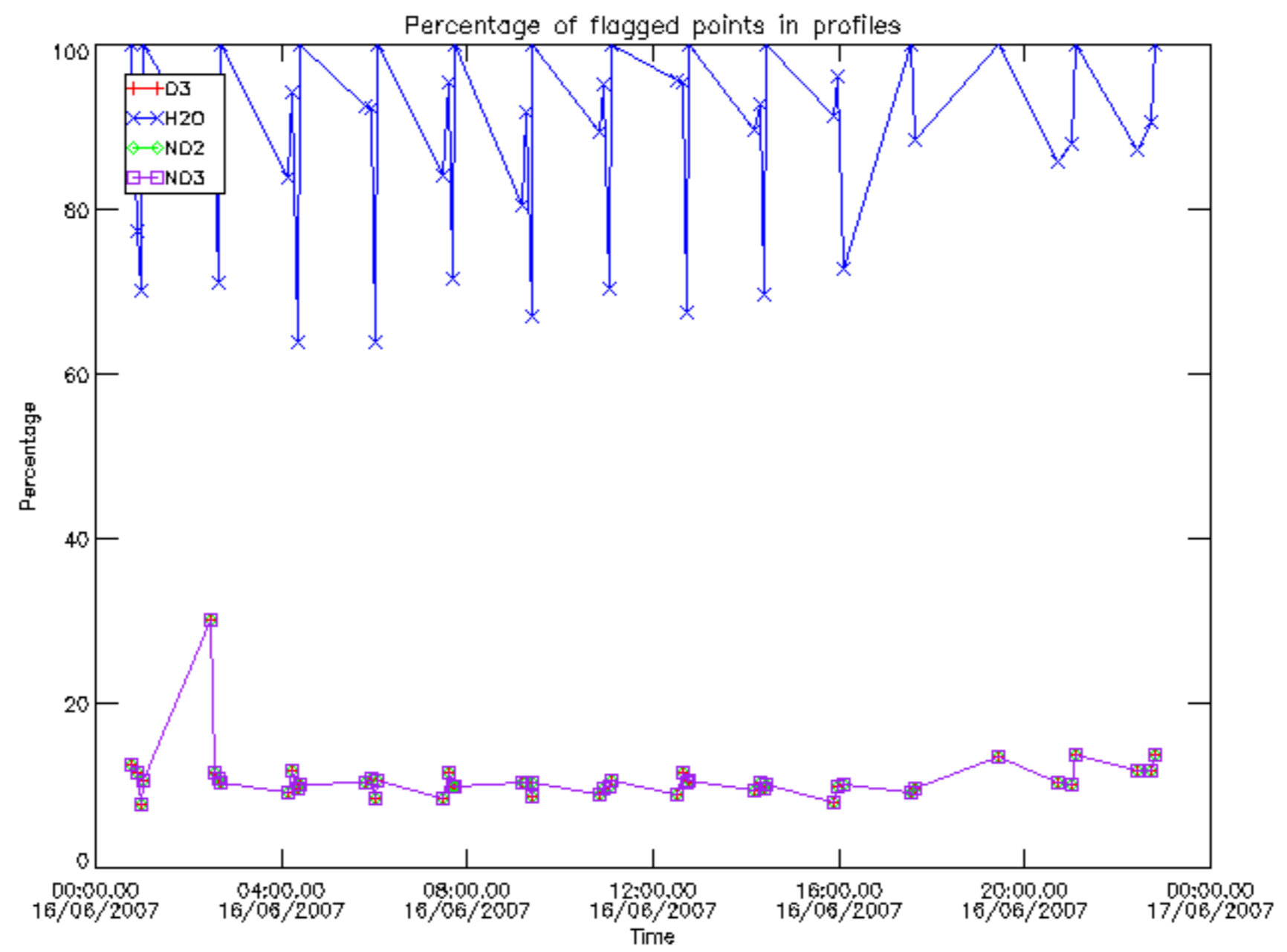
The colorbar represents the latitude.



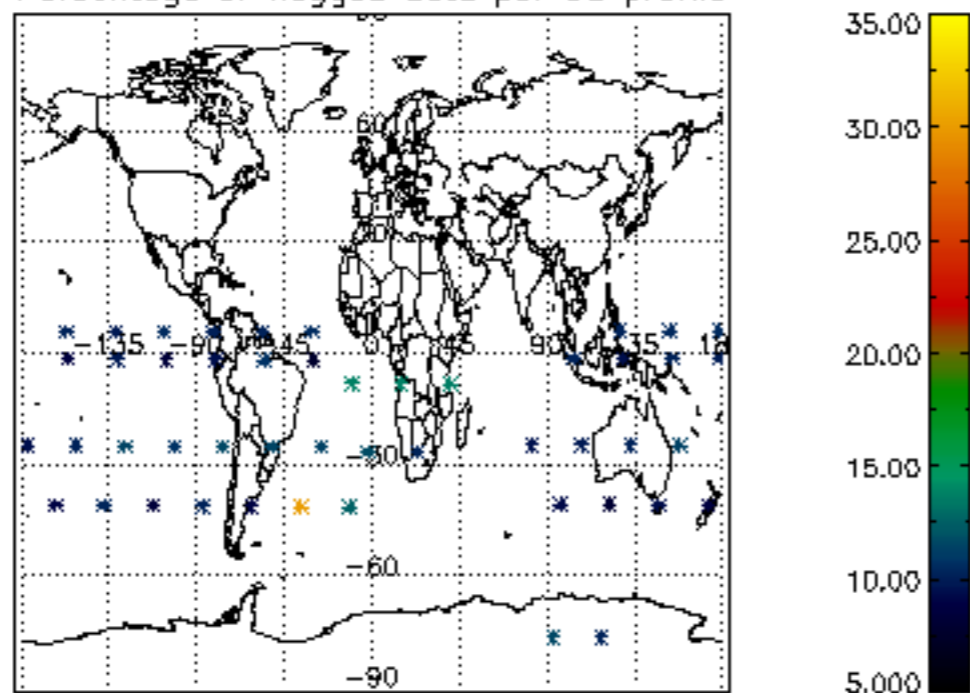
## 6. Auxiliary Data Files used for the production reported in section 2

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.

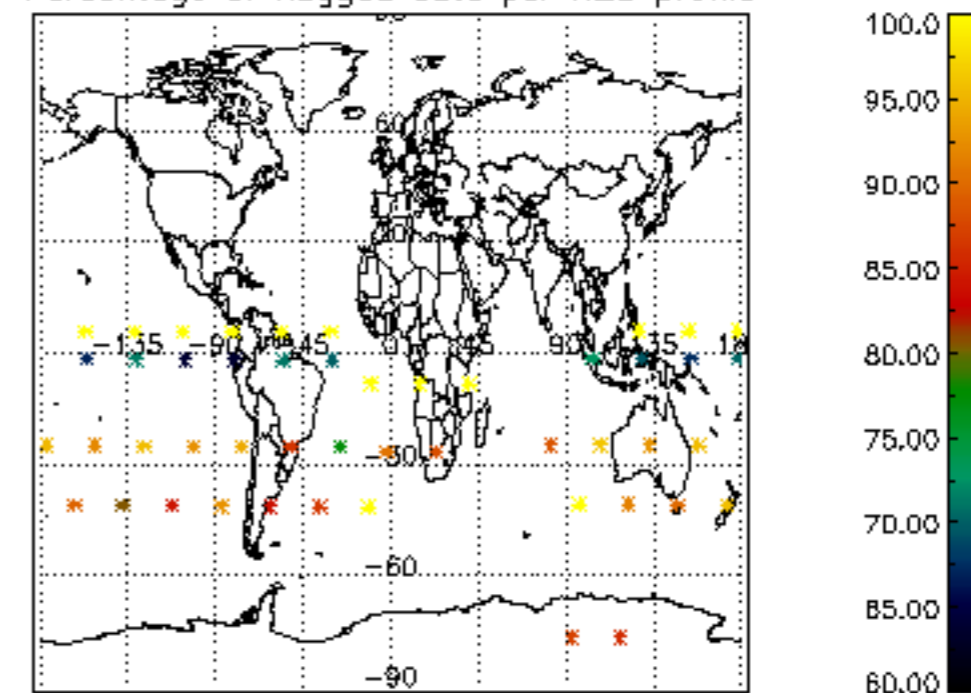
| Type                      | Auxiliary Filename  | Used since product | Used since product date |
|---------------------------|---|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000 | 1                  | 16-JUN-2007 00:02:10    |
| LEVEL-2_PROC_CONFIG       | GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000 | 1                  | 16-JUN-2007 00:02:10    |
| CROSS_SECTIONS_FILE       | GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000 | 1                  | 16-JUN-2007 00:02:10    |



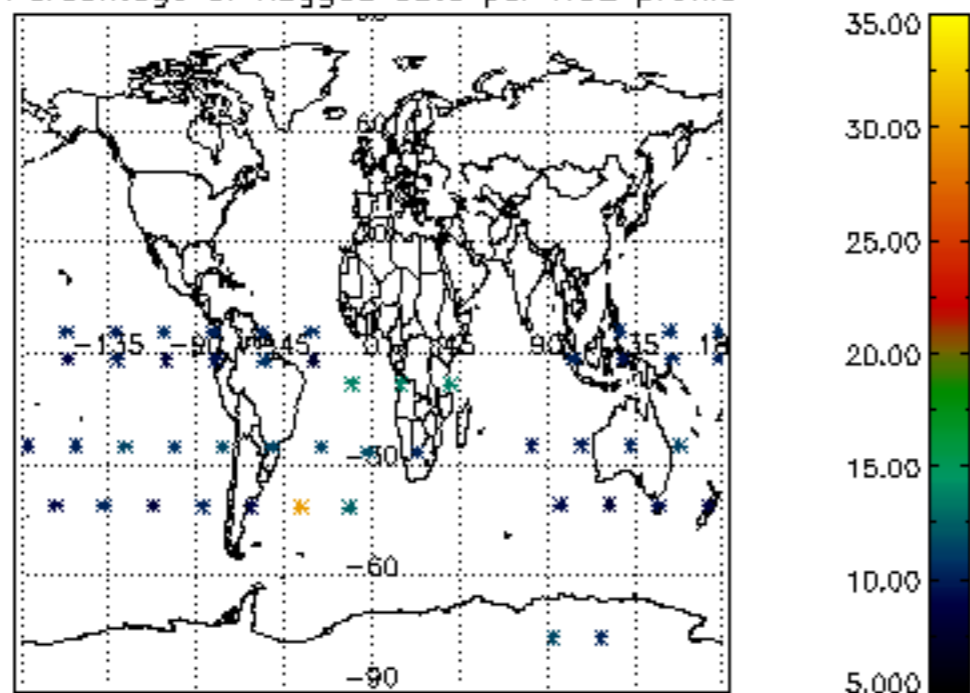
Percentage of flagged data per D3 profile



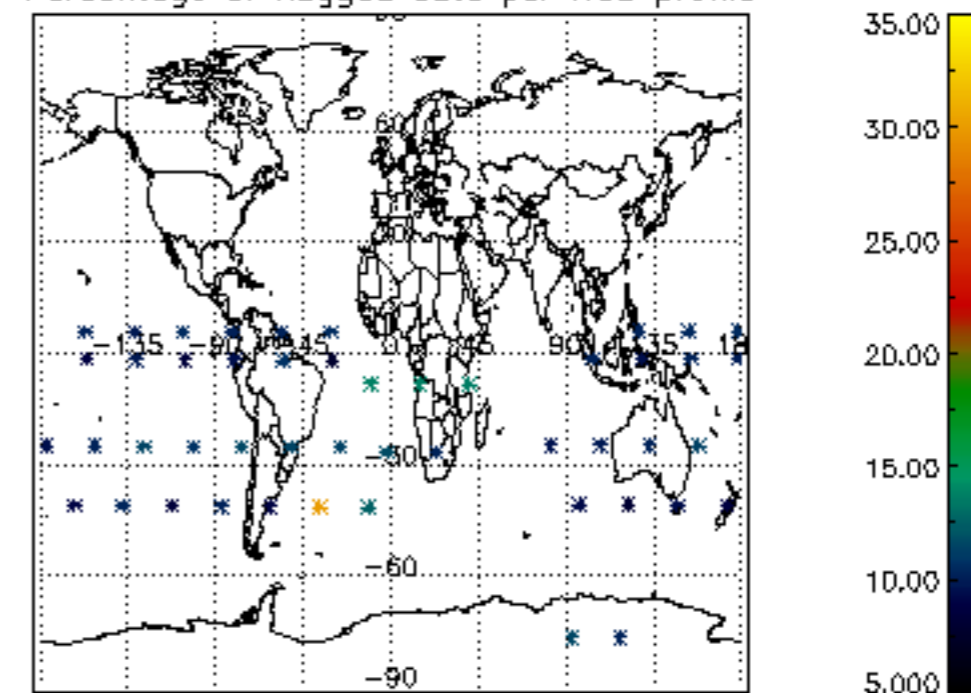
Percentage of flagged data per H2O profile



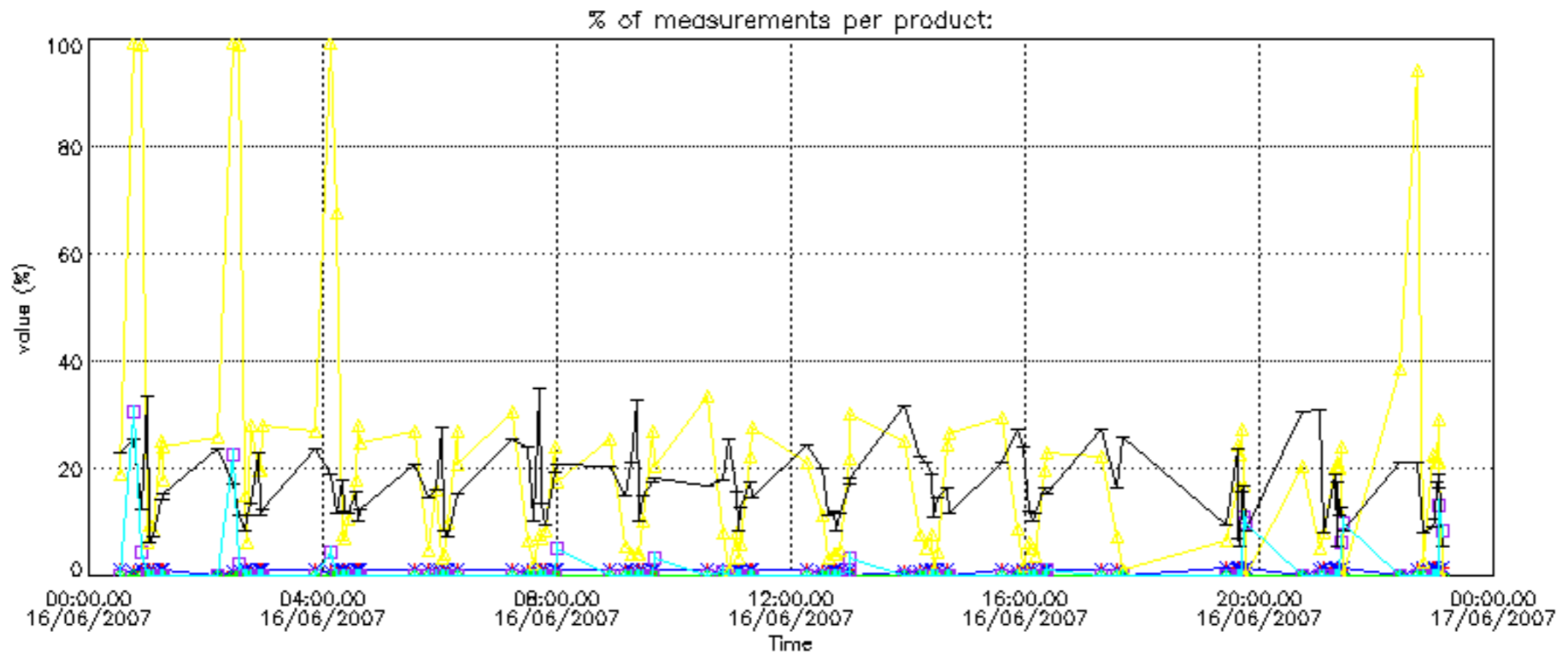
Percentage of flagged data per NO2 profile

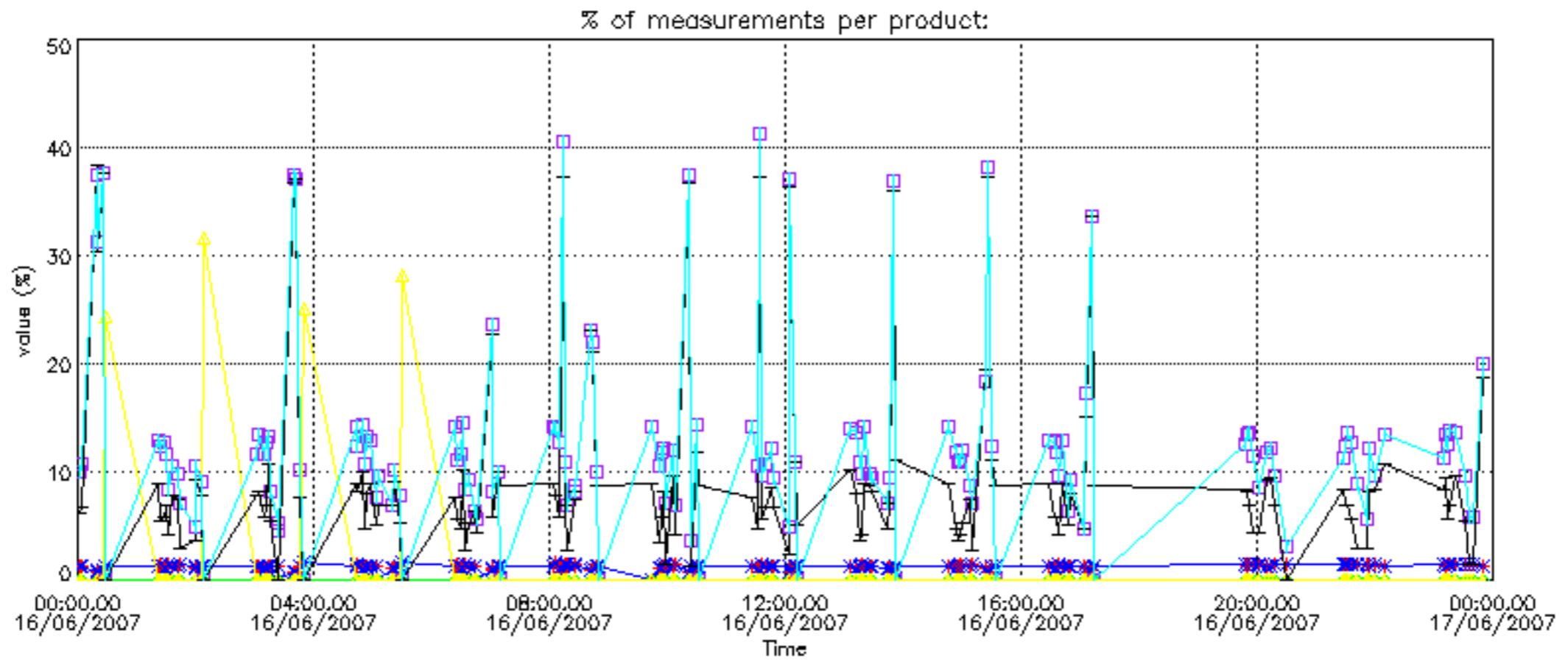


Percentage of flagged data per NO3 profile

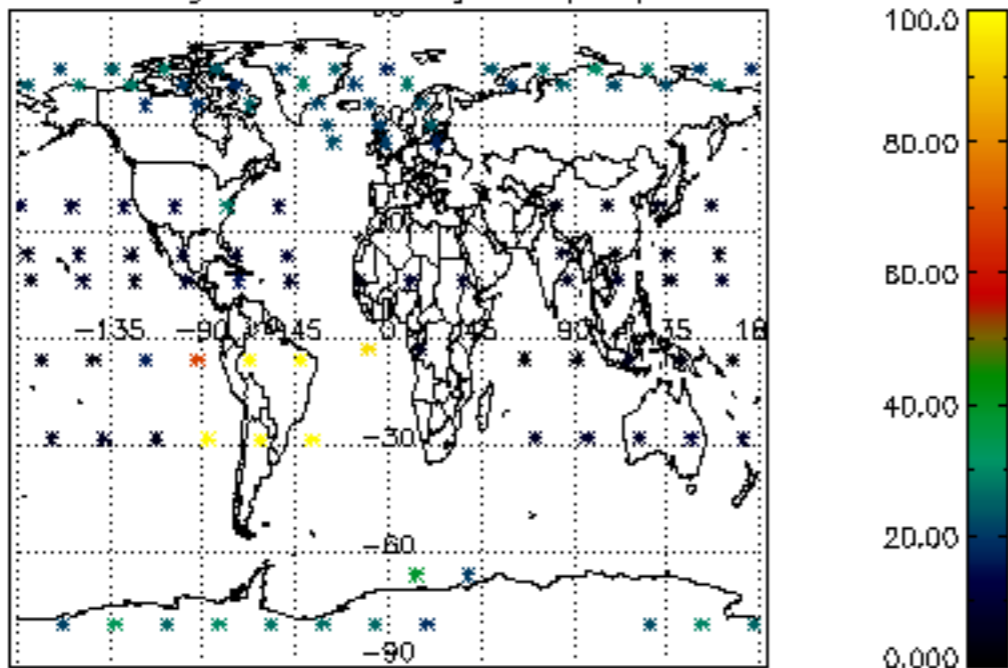




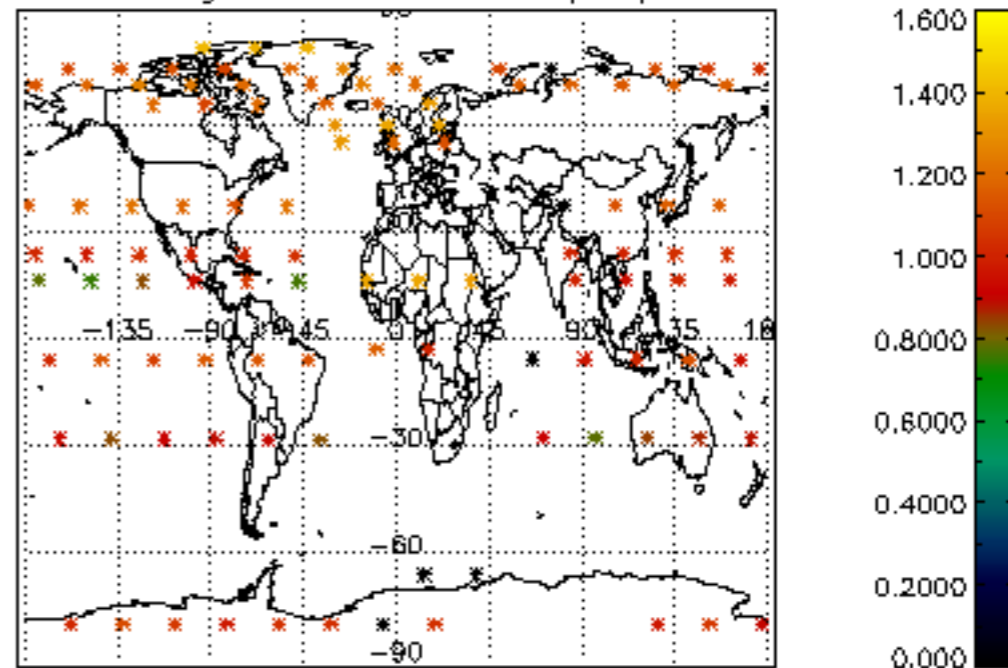




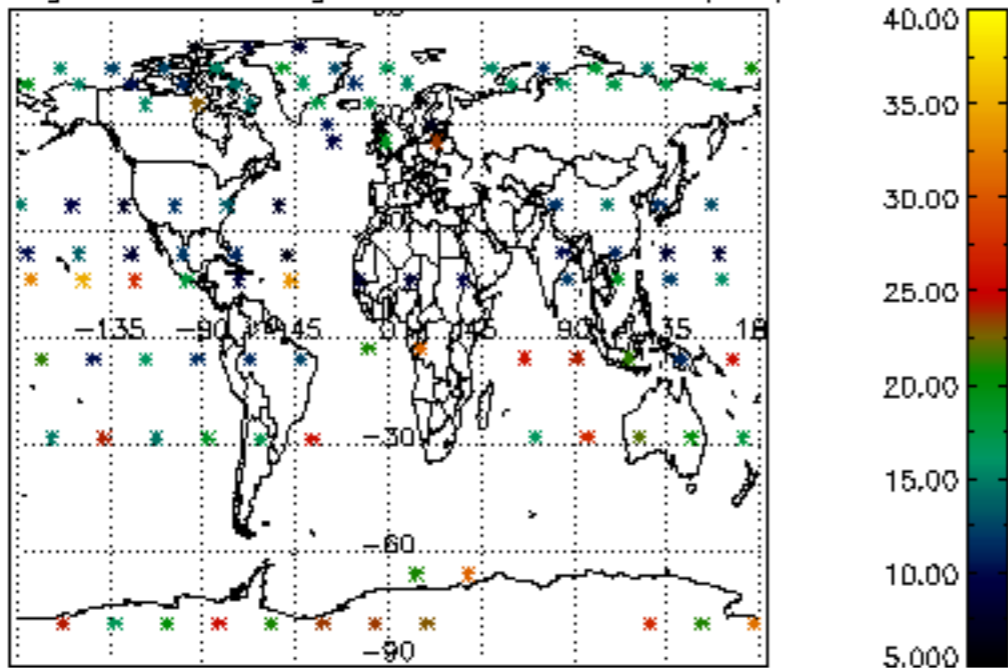
Percentage of cosmic ray hits per profile



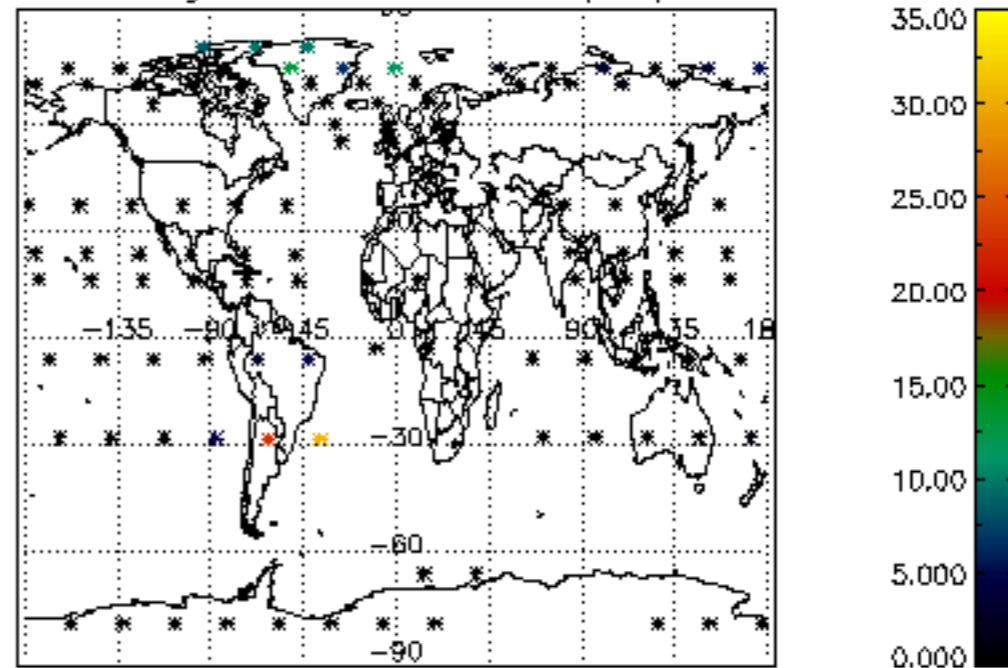
Percentage of datation errors per profile



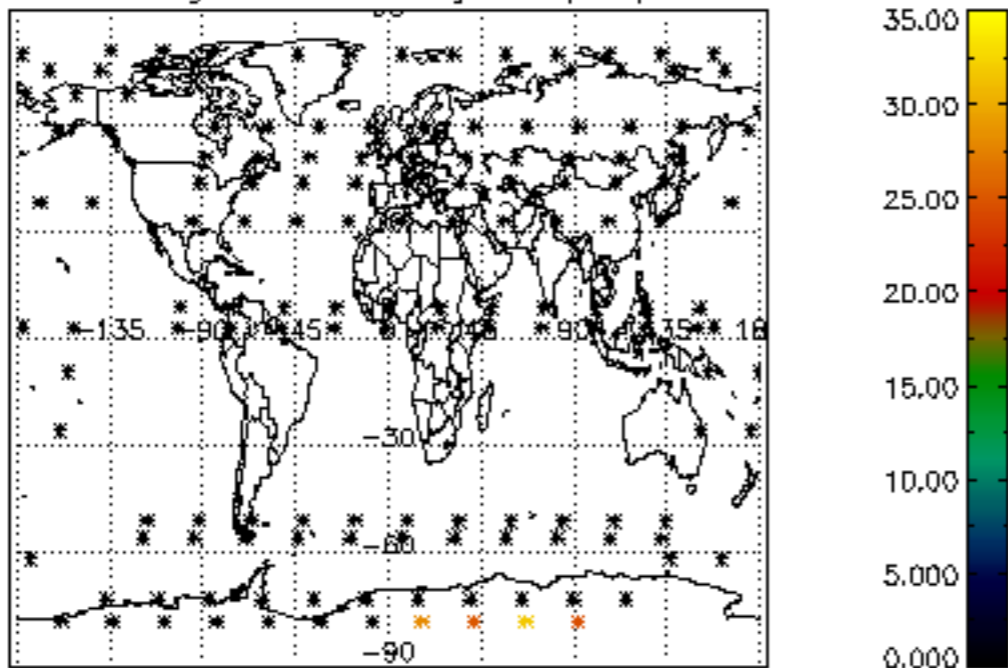
Percentage of star falling outside central band per profile



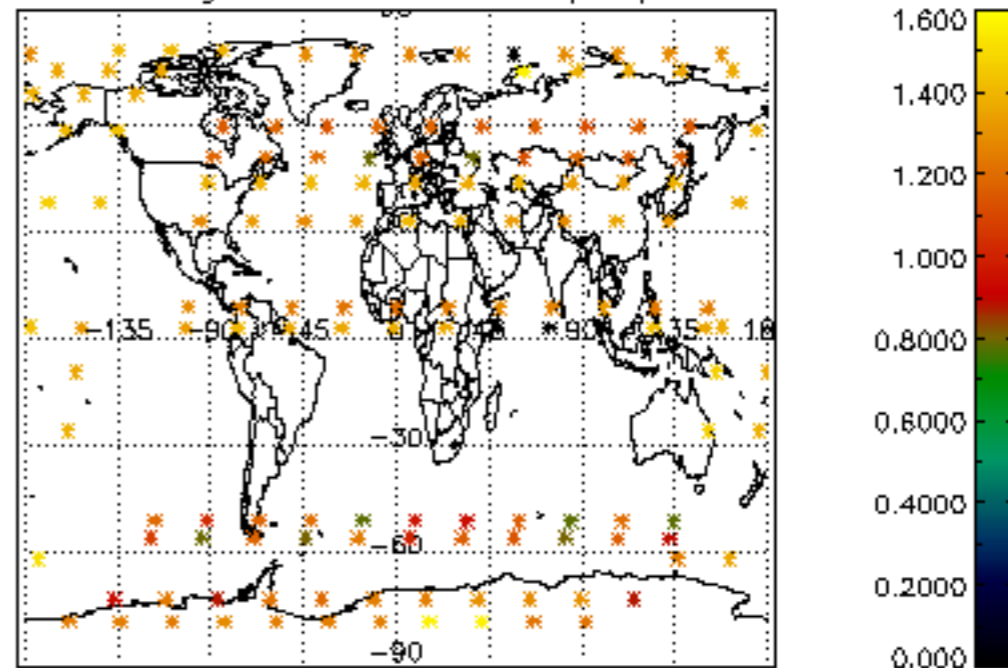
Percentage of saturation errors per profile



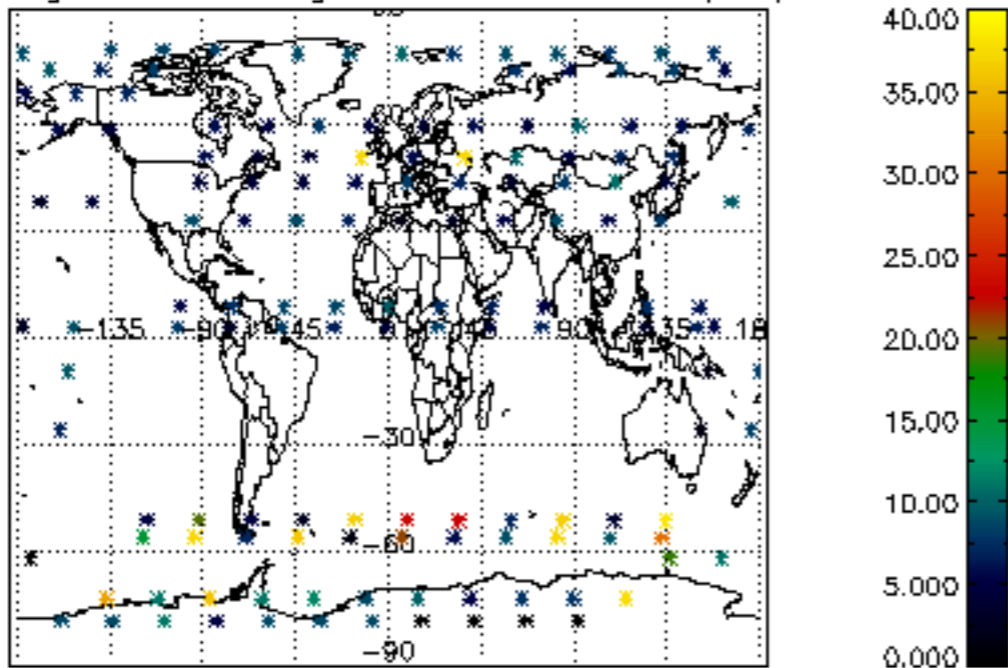
Percentage of cosmic ray hits per profile



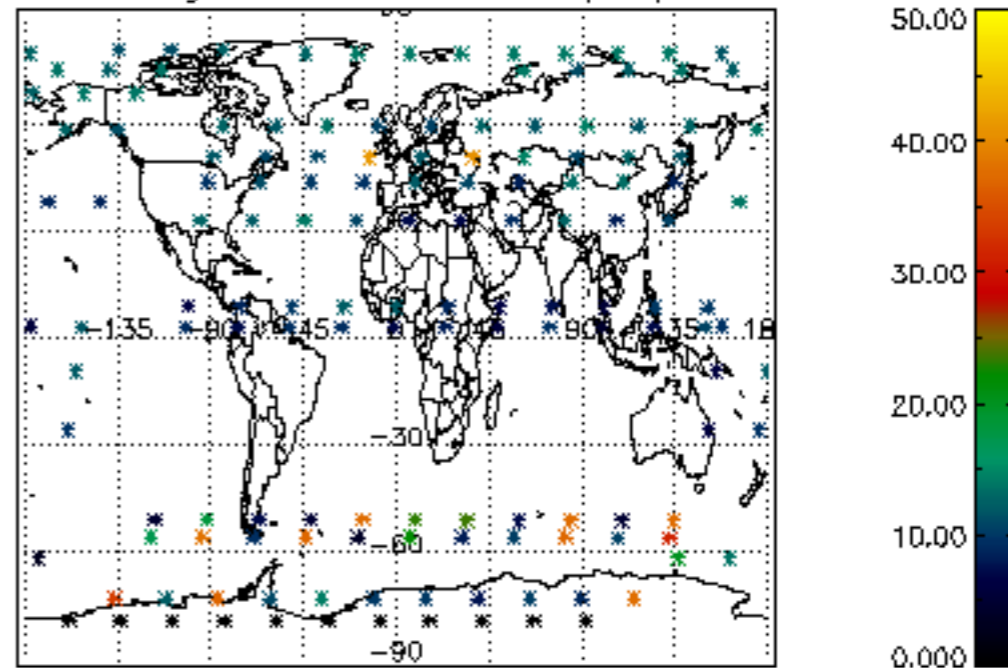
Percentage of datation errors per profile

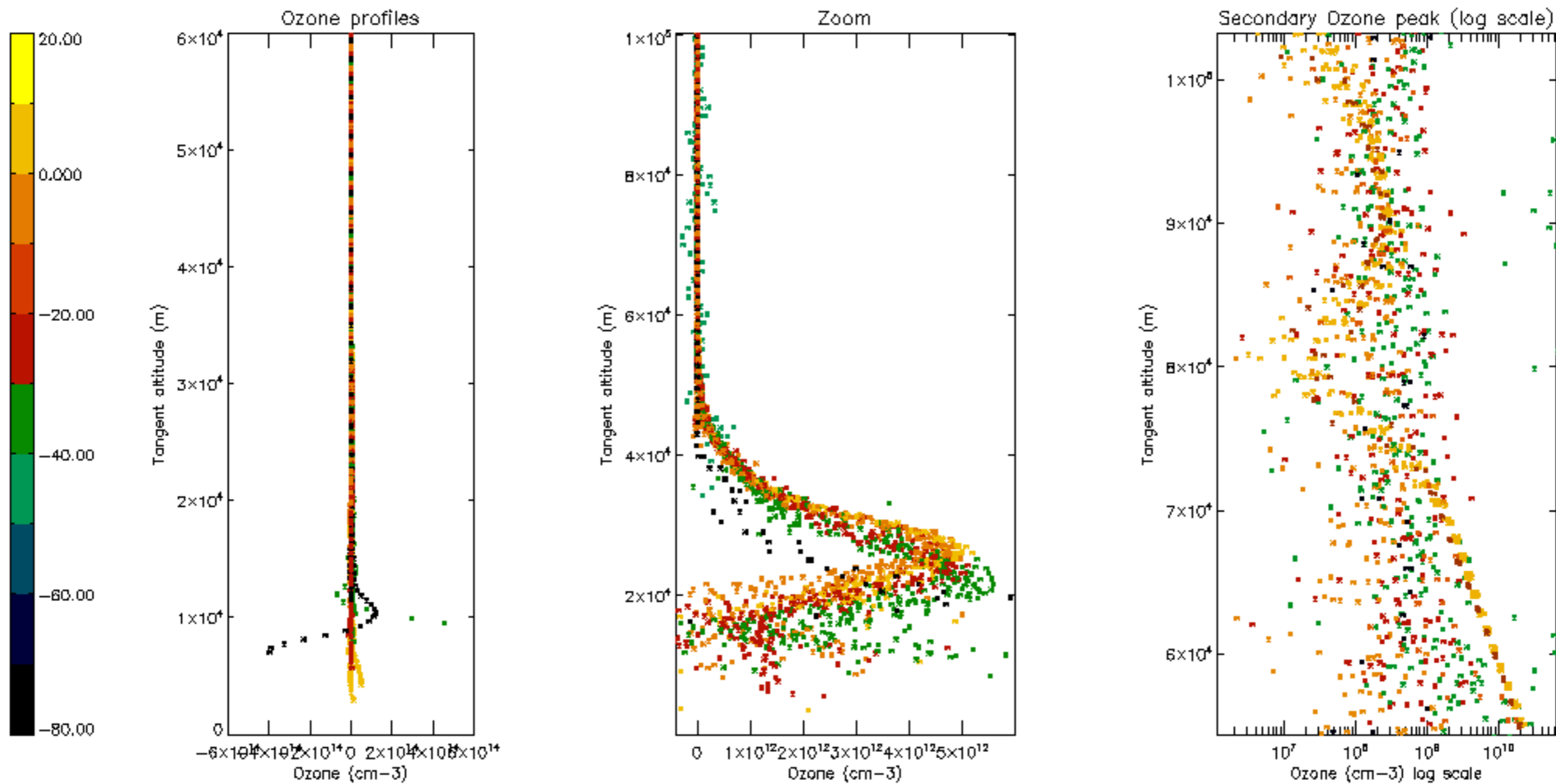


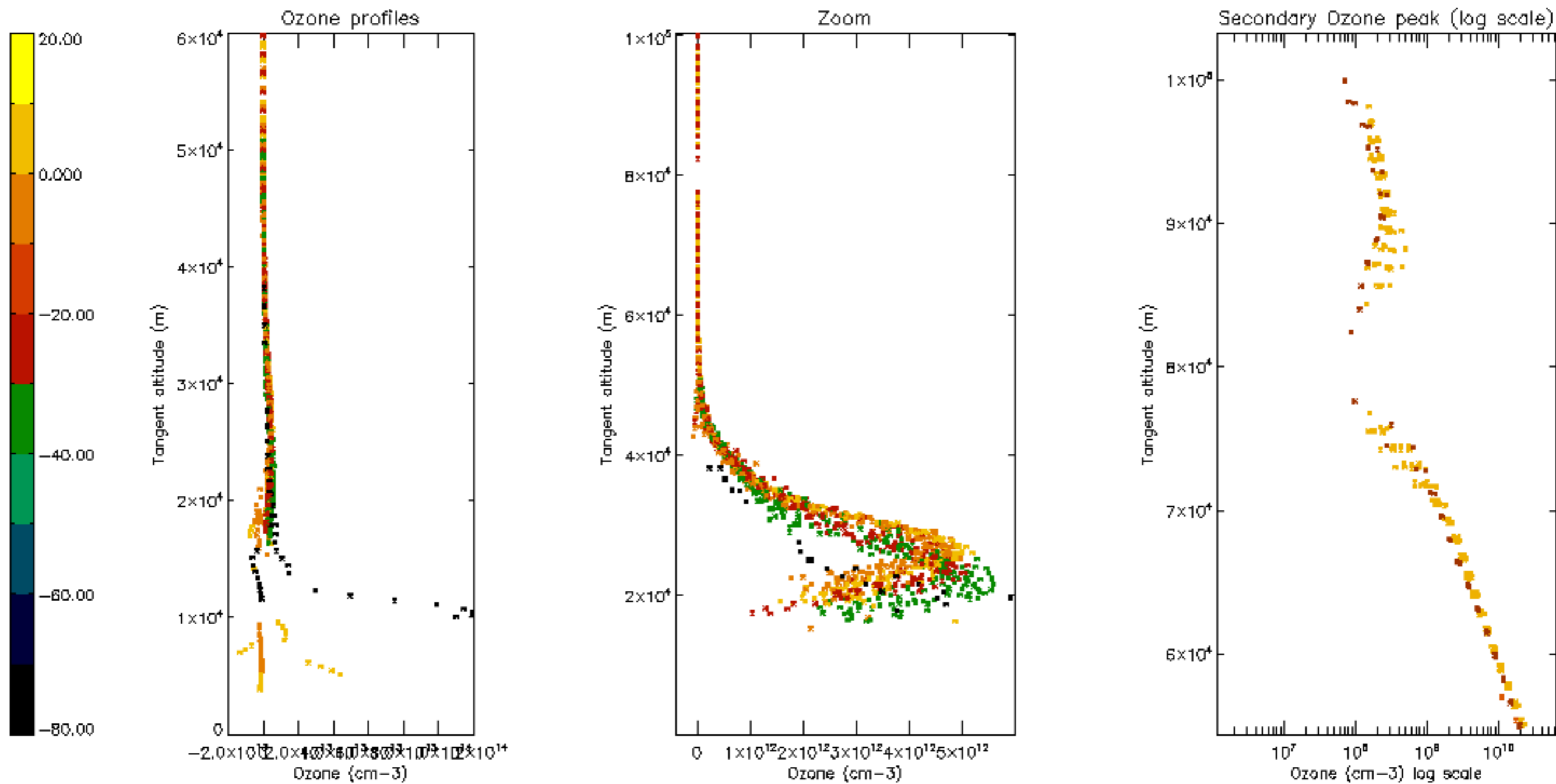
Percentage of star falling outside central band per profile

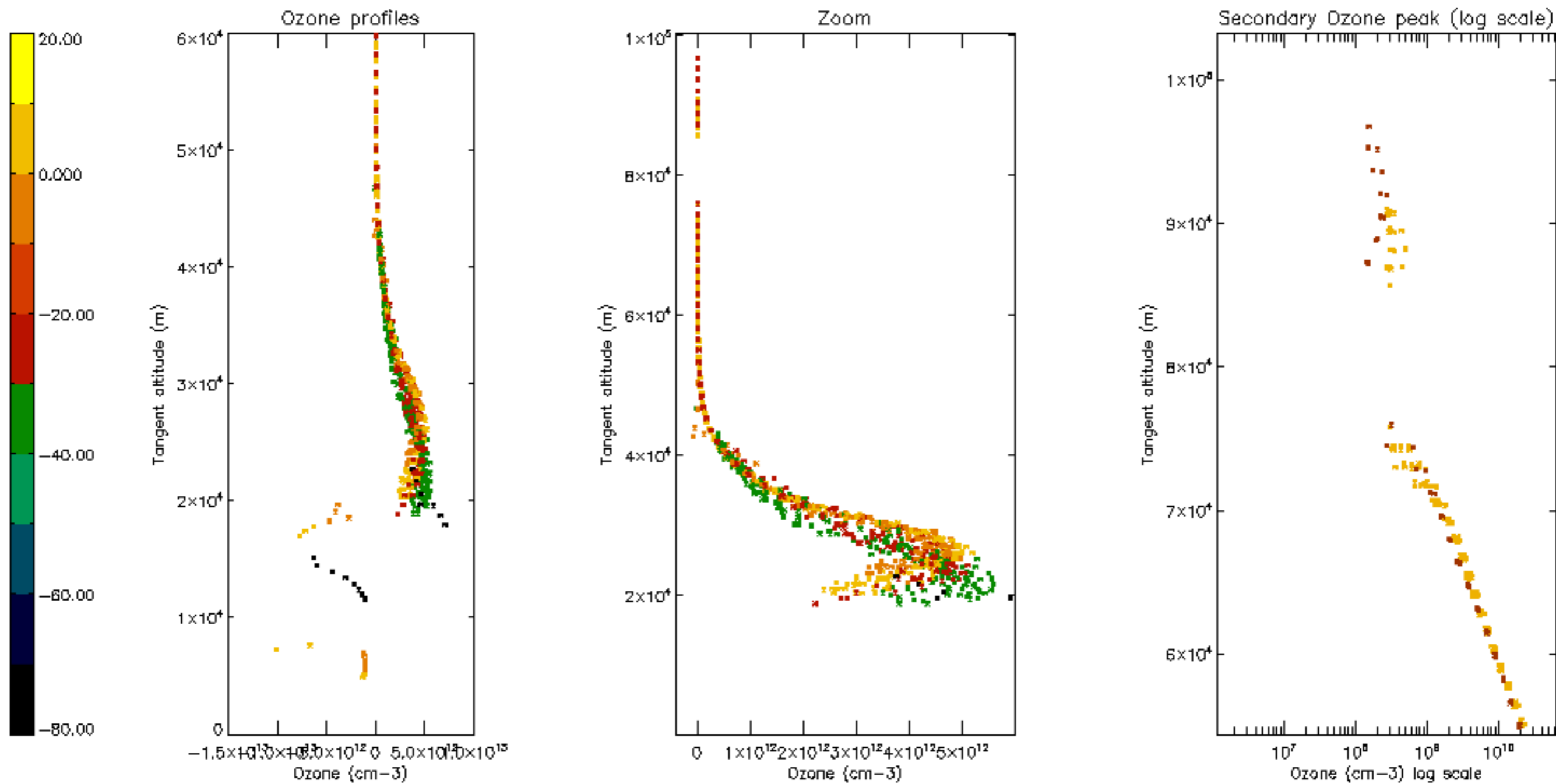


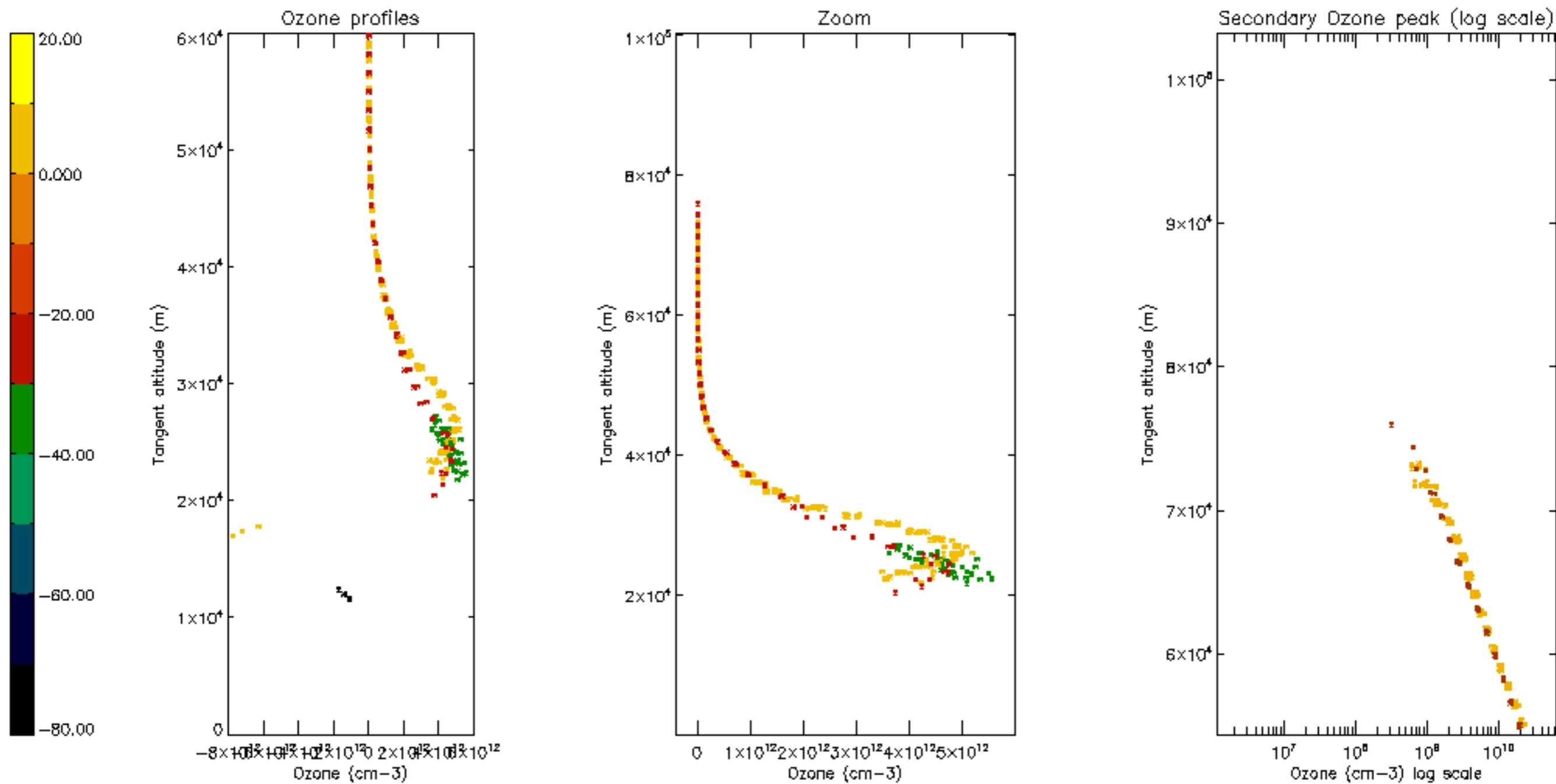
Percentage of saturation errors per profile



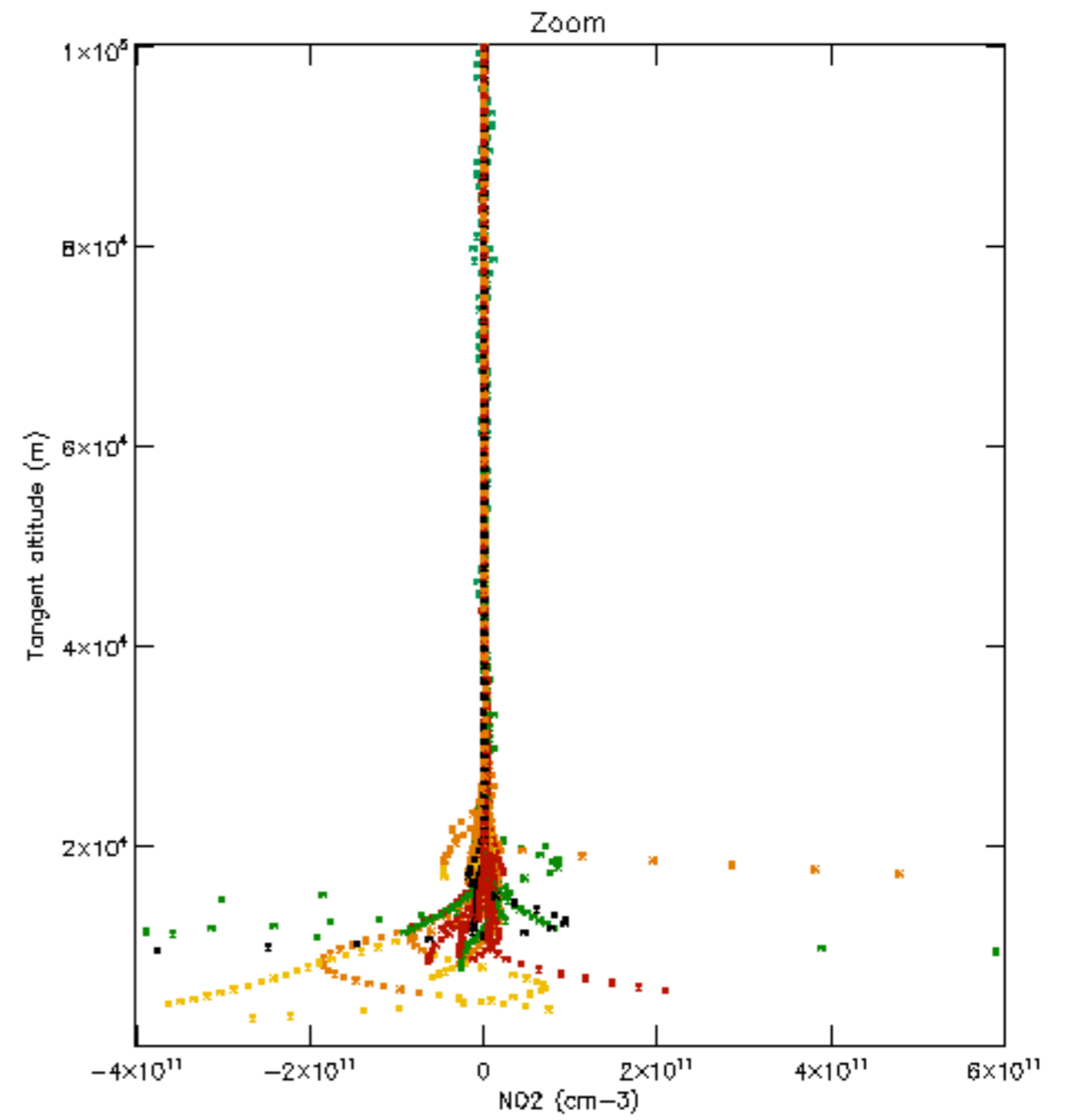
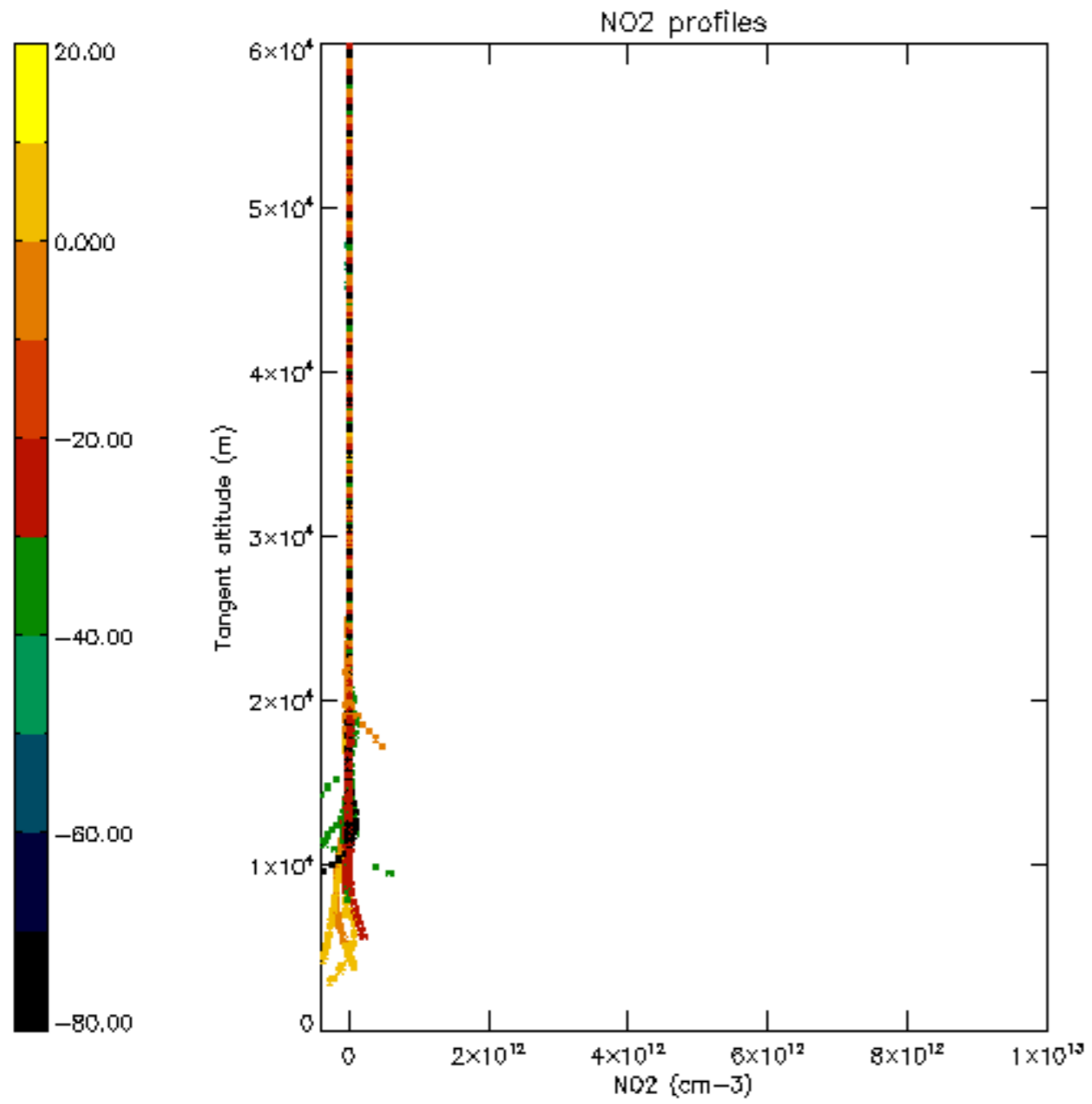


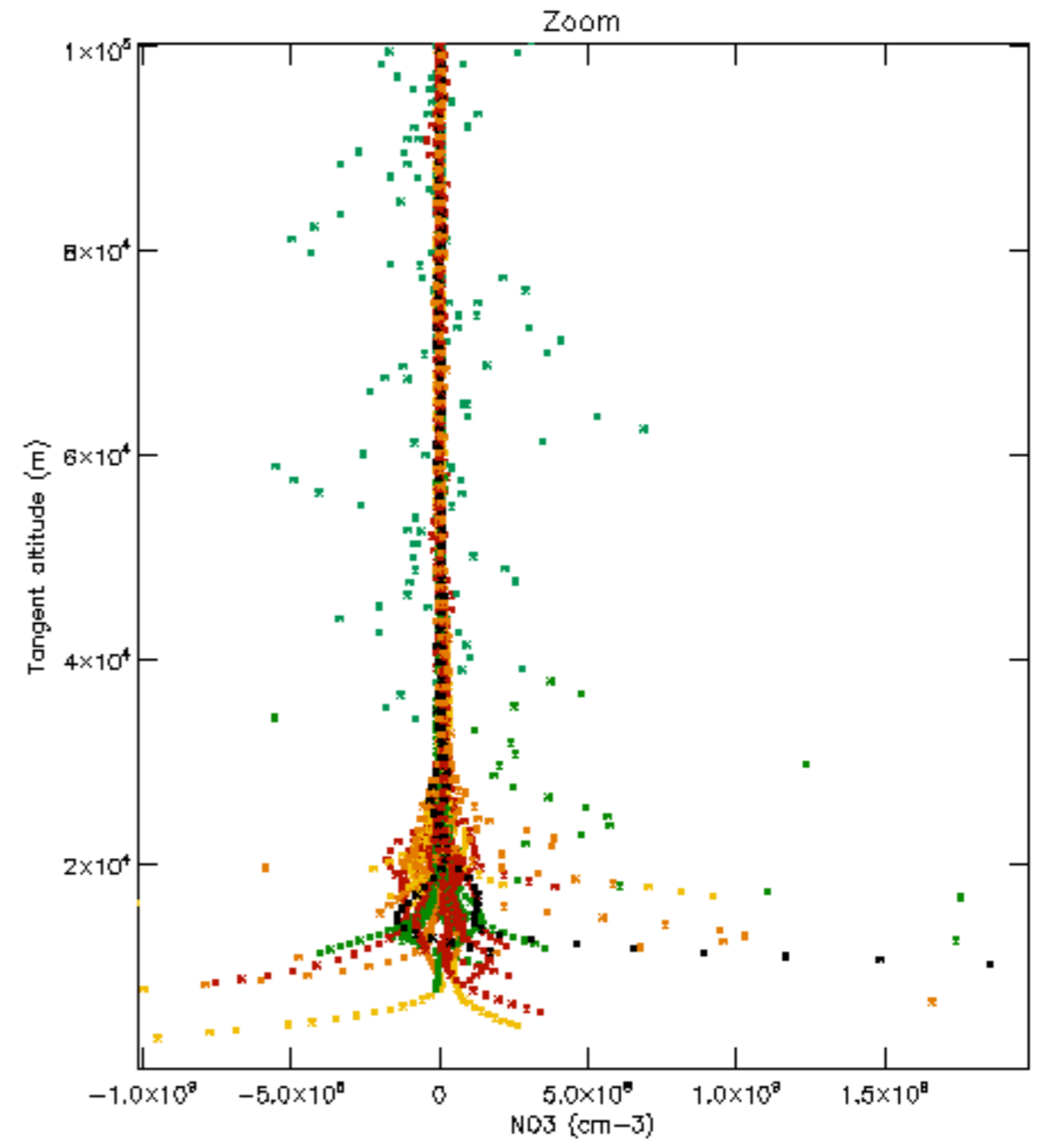
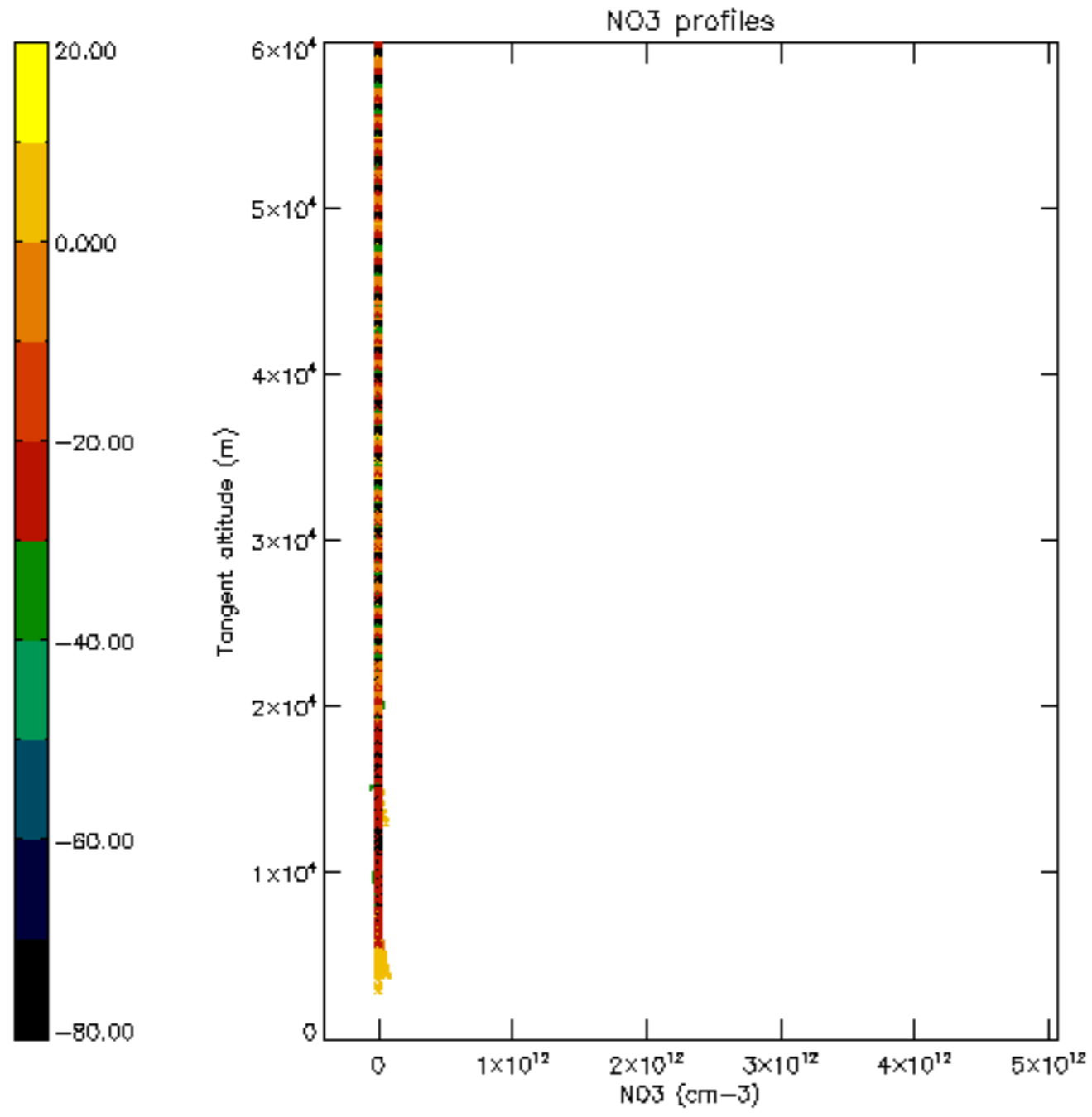


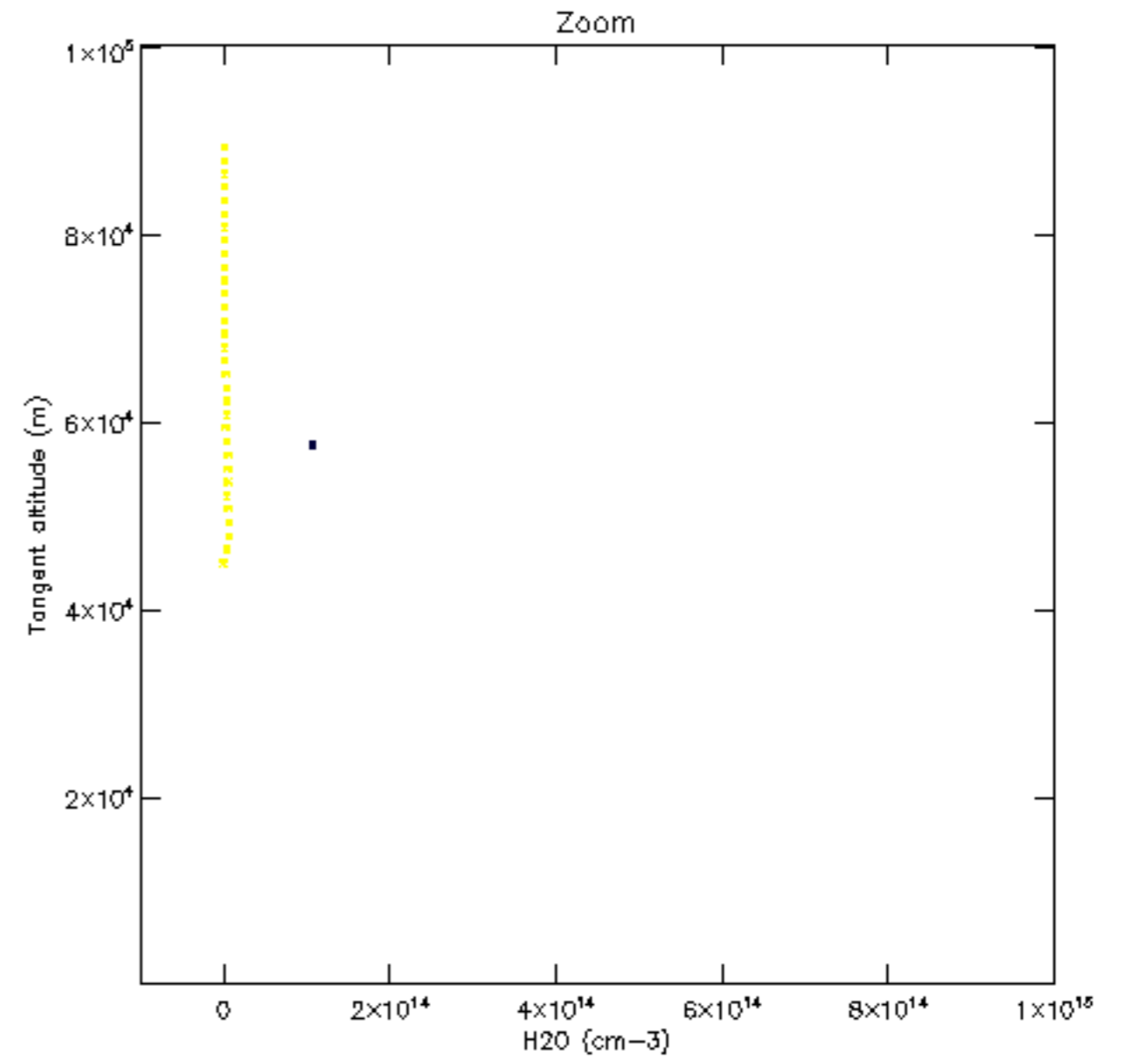
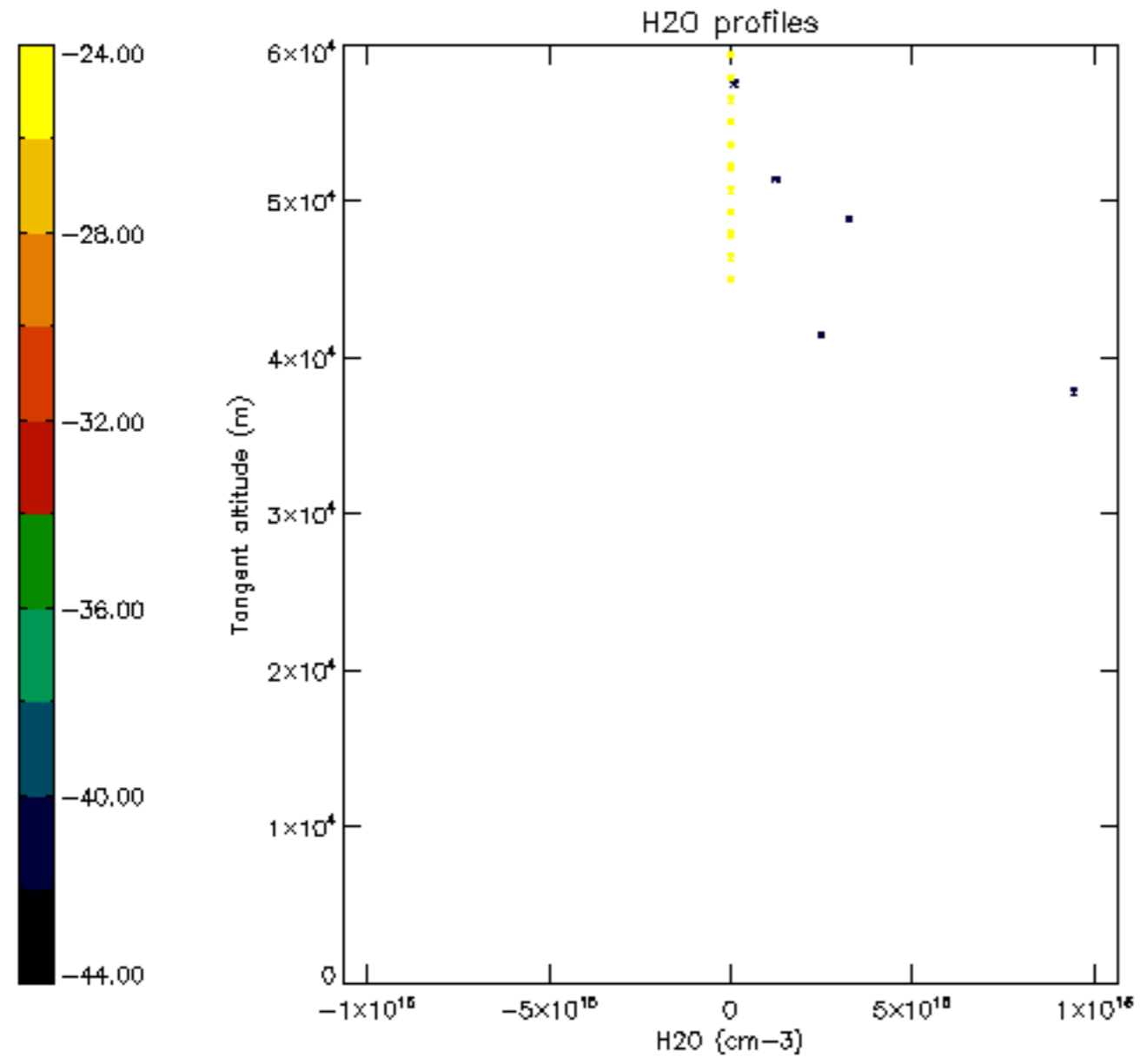


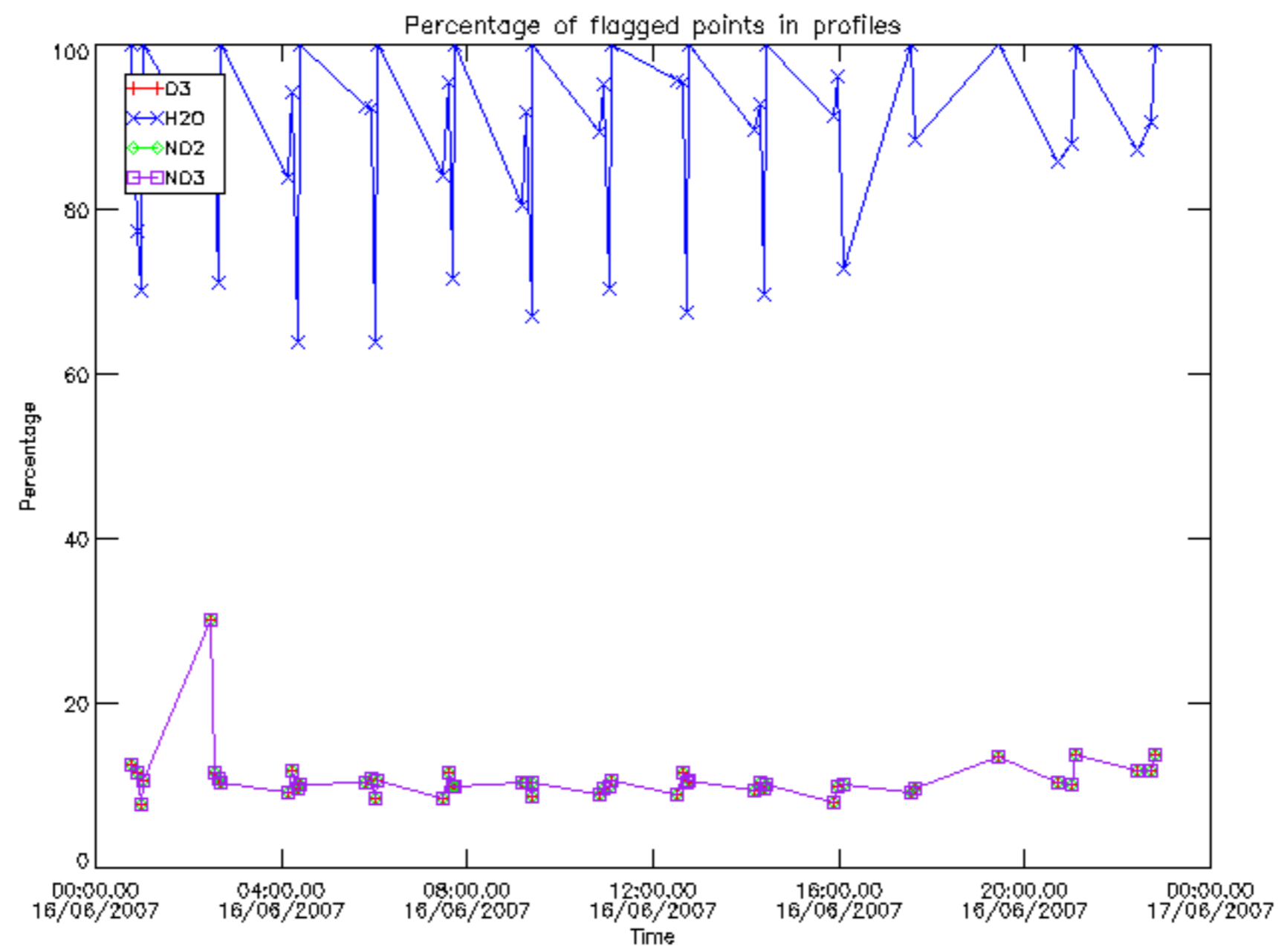




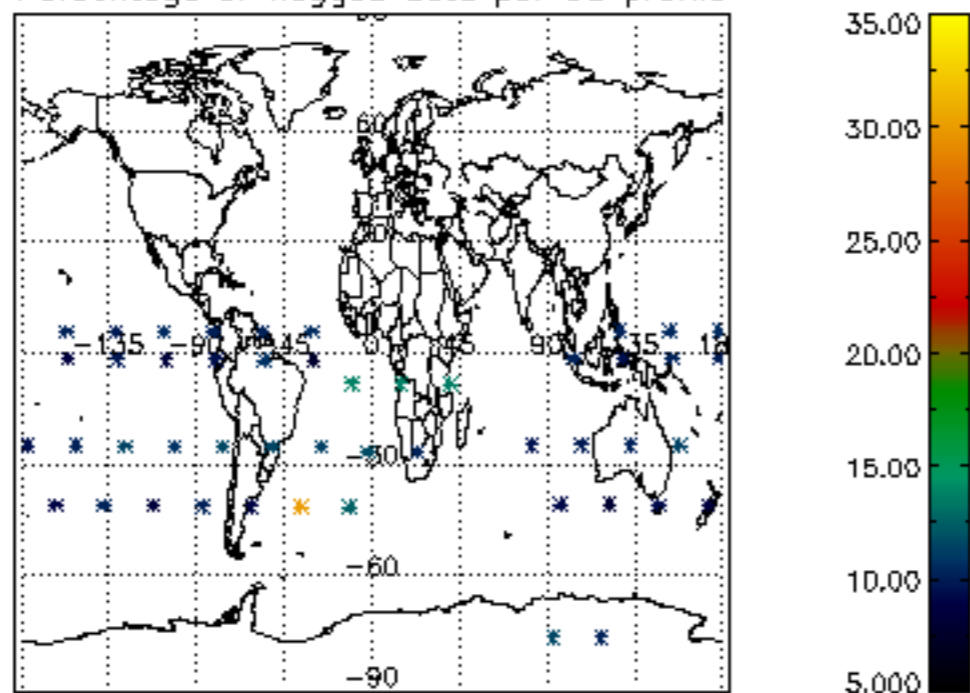




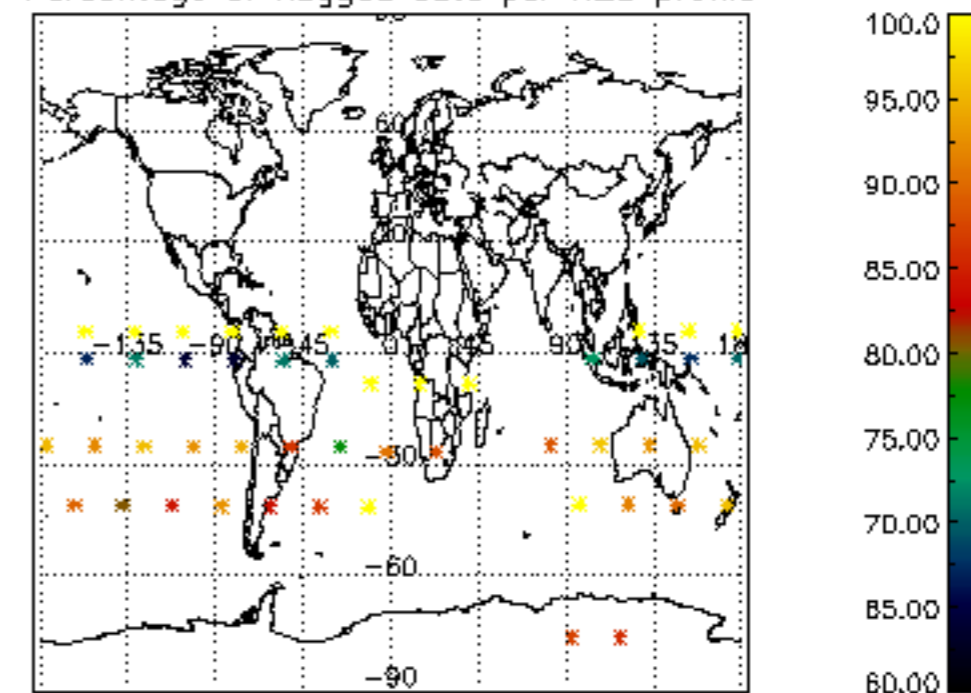




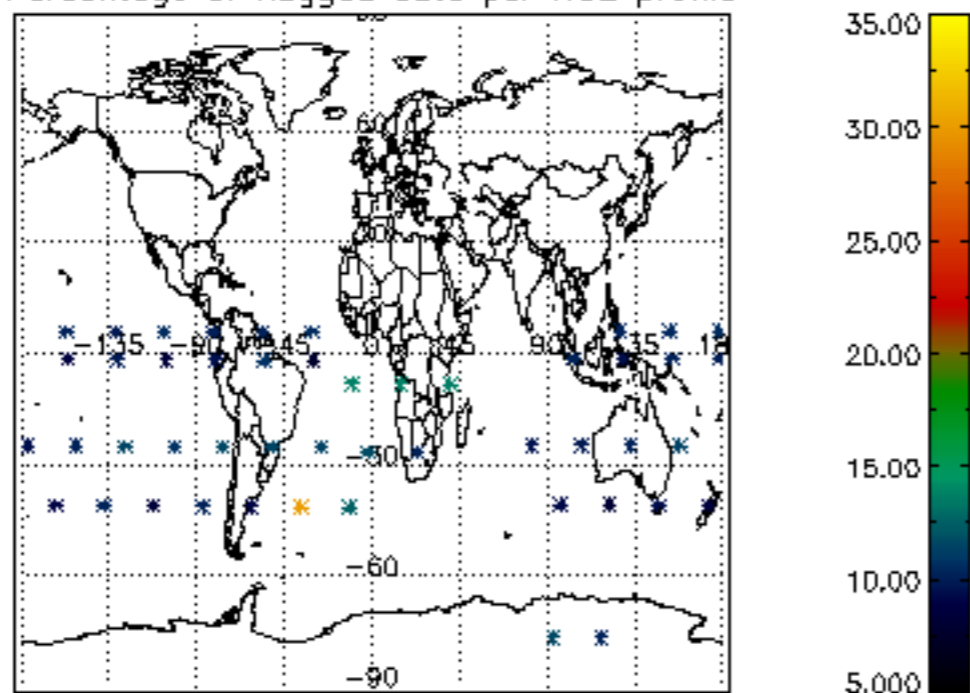
Percentage of flagged data per D3 profile



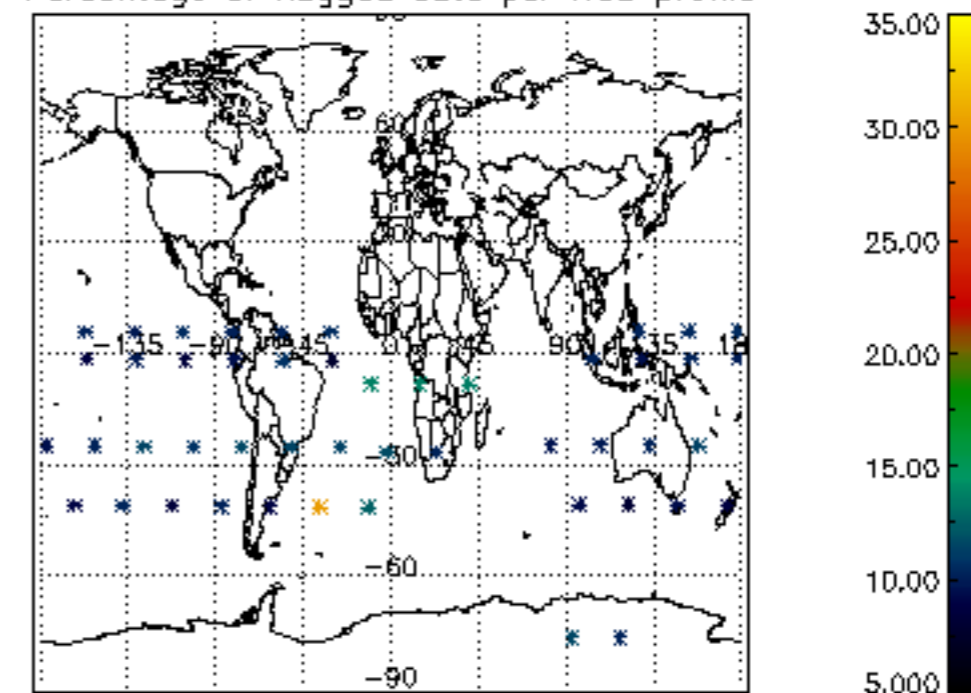
Percentage of flagged data per H2O profile

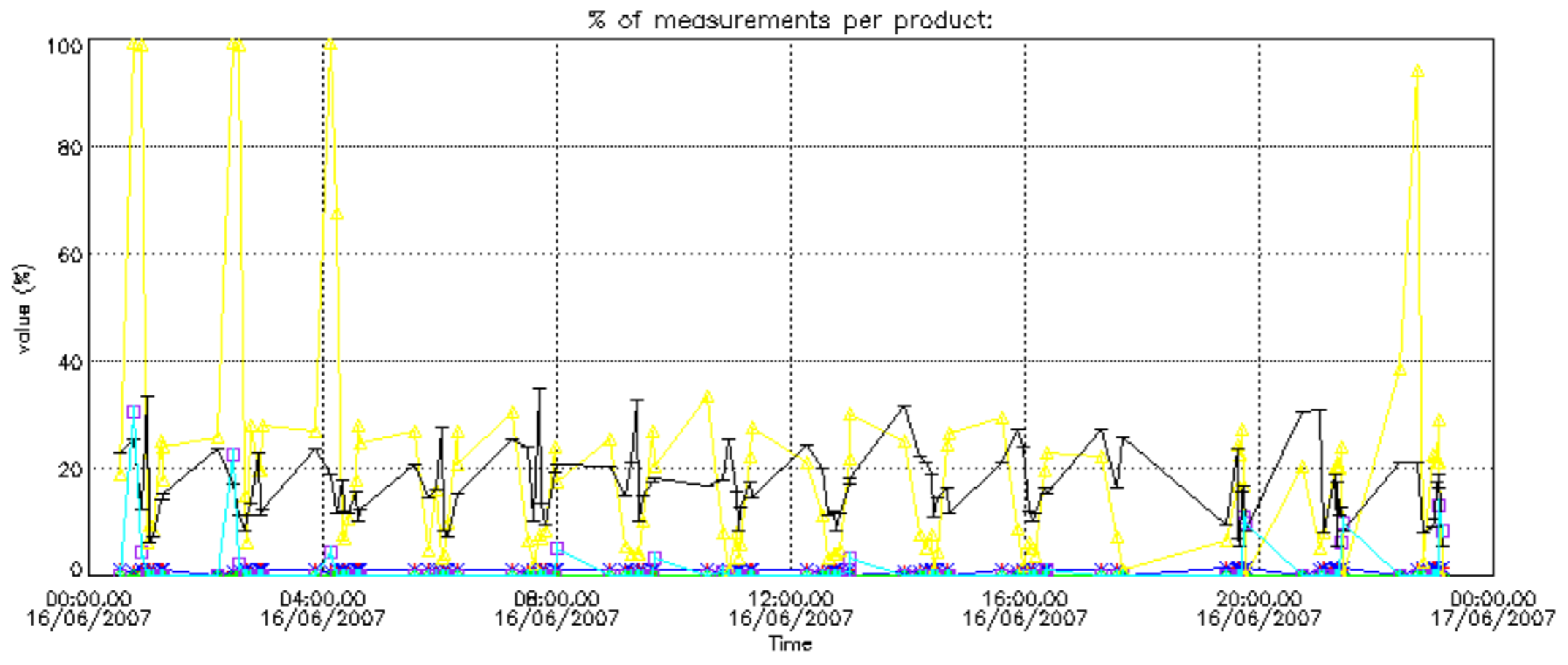


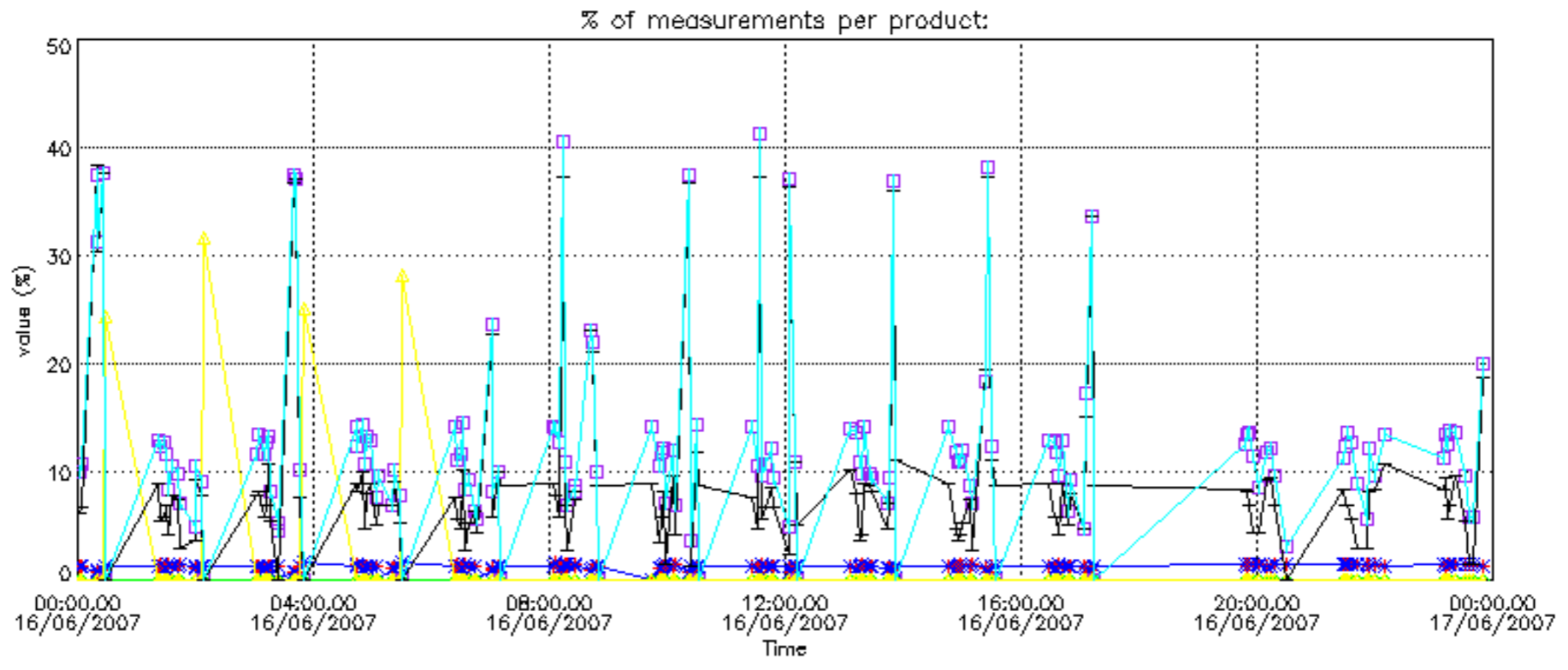
Percentage of flagged data per NO2 profile



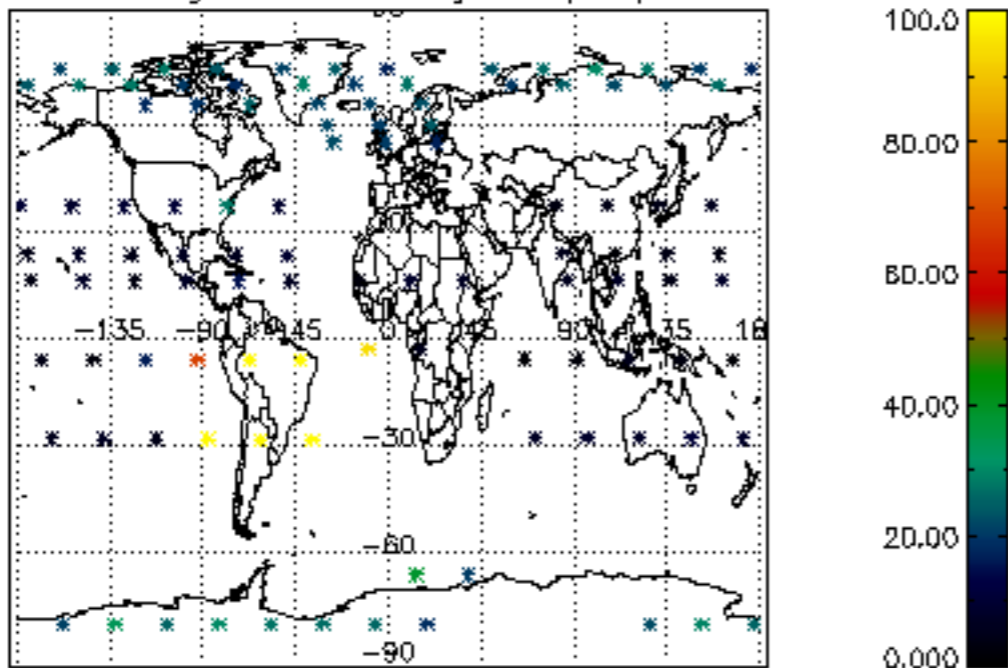
Percentage of flagged data per NO3 profile



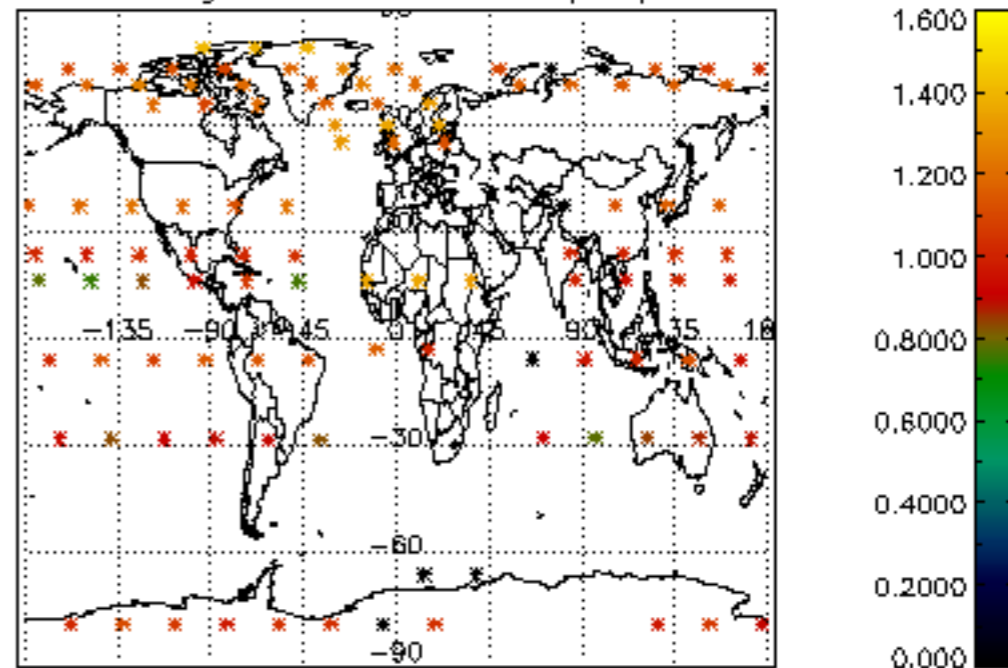




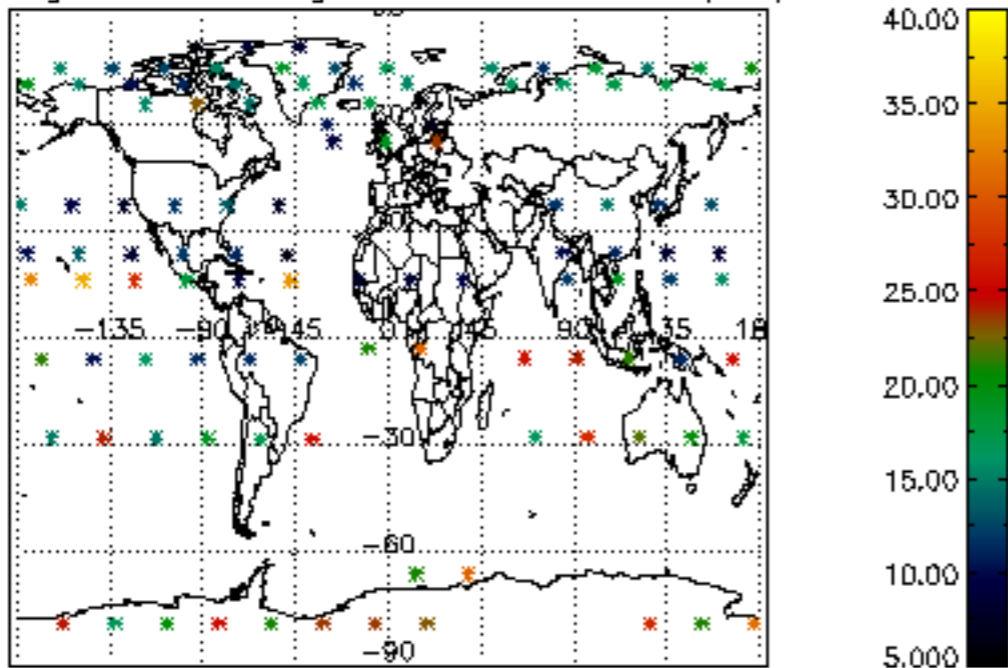
Percentage of cosmic ray hits per profile



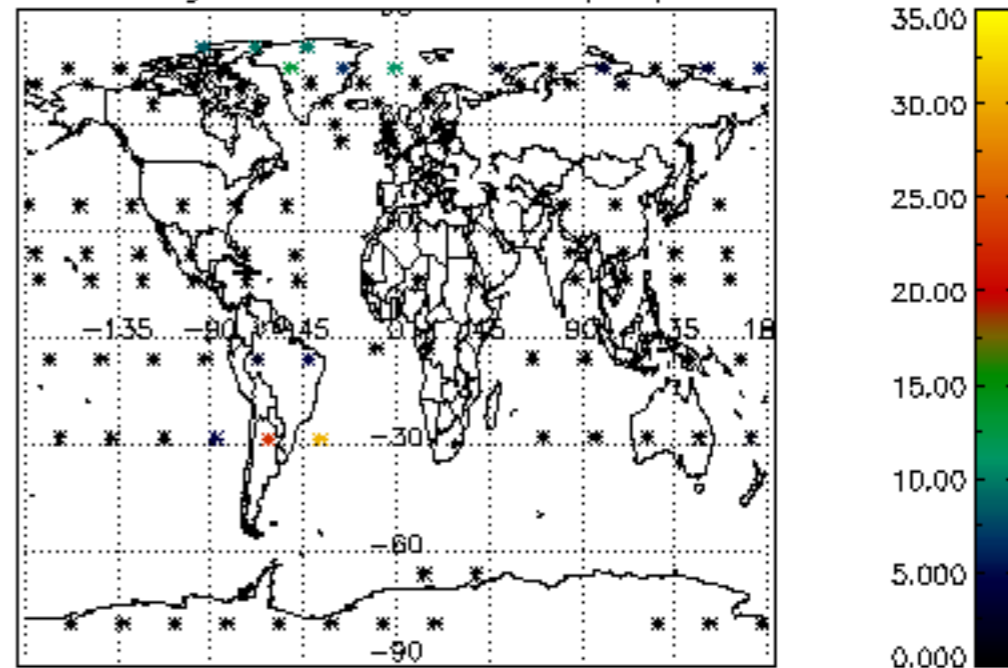
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

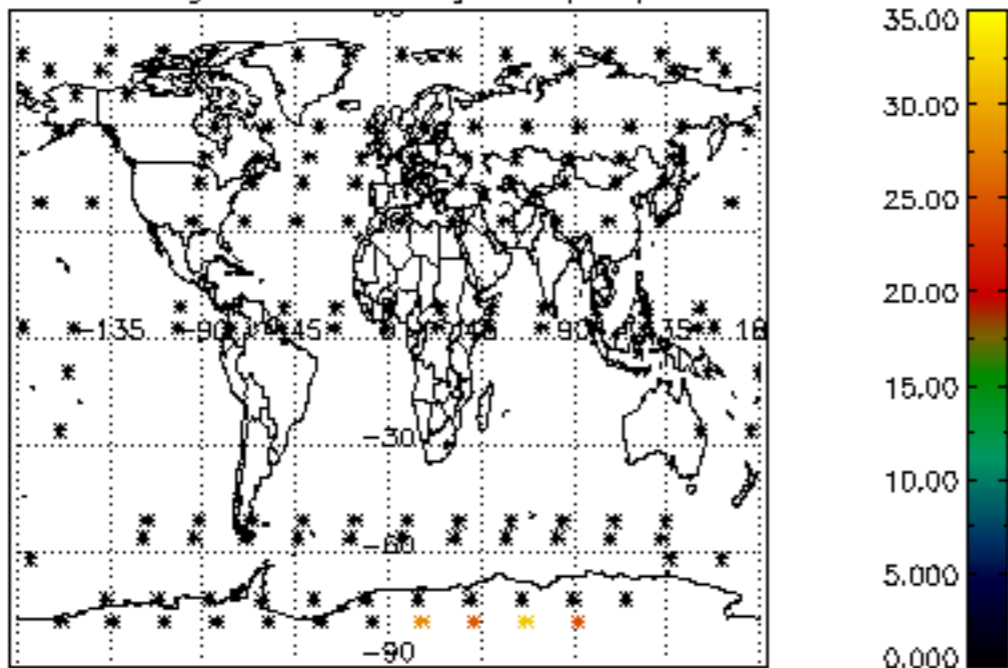


Percentage of saturation errors per profile

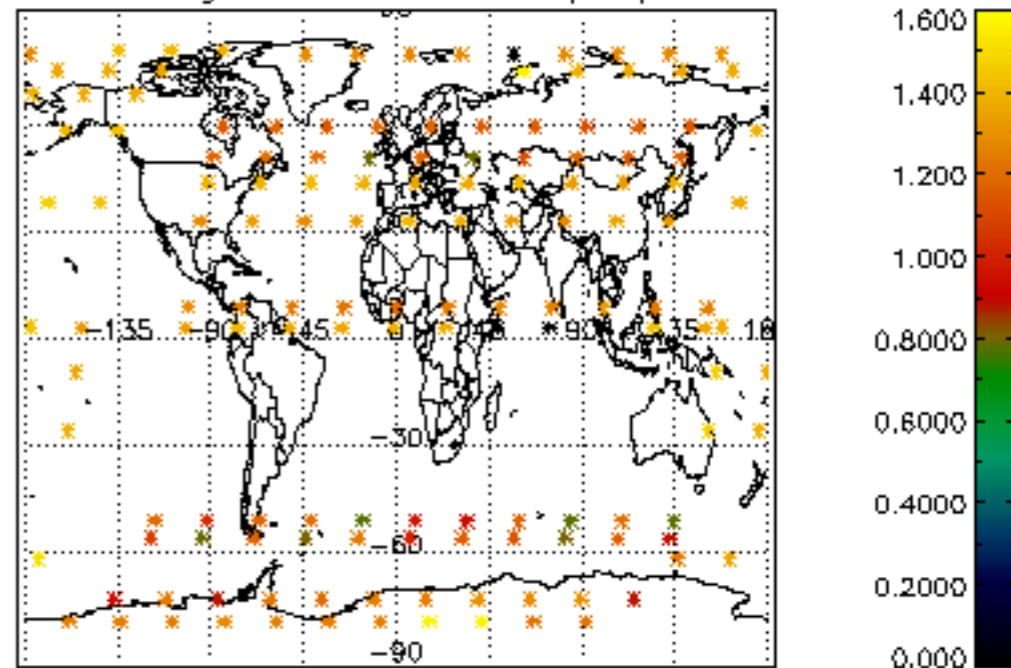




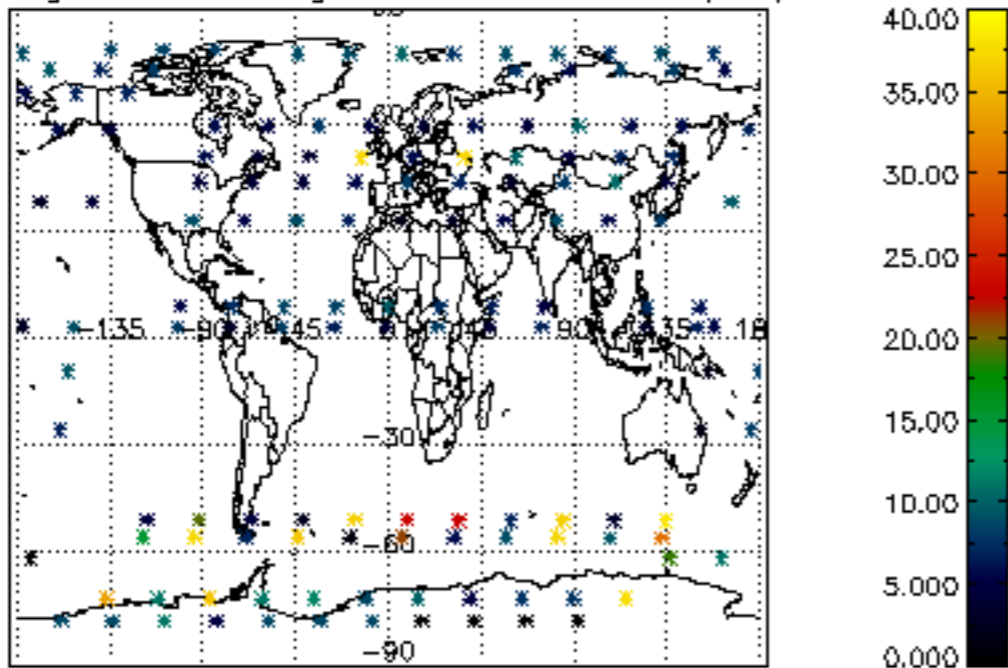
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

