

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 17:27:18 |
| Data source version | GOMOS/6.01 |
| Start time of products | 16-03-2007 (16MAR2007 00:00:00) |
| Stop time of products | 17-03-2007 (17MAR2007 00:00:00) |
| Store outputs in DB | Yes |
| Nb of level 2 prods | 255 |
| Nb of prods with errors | 0 |

2. Summary of processed GOM_NL__2P products.

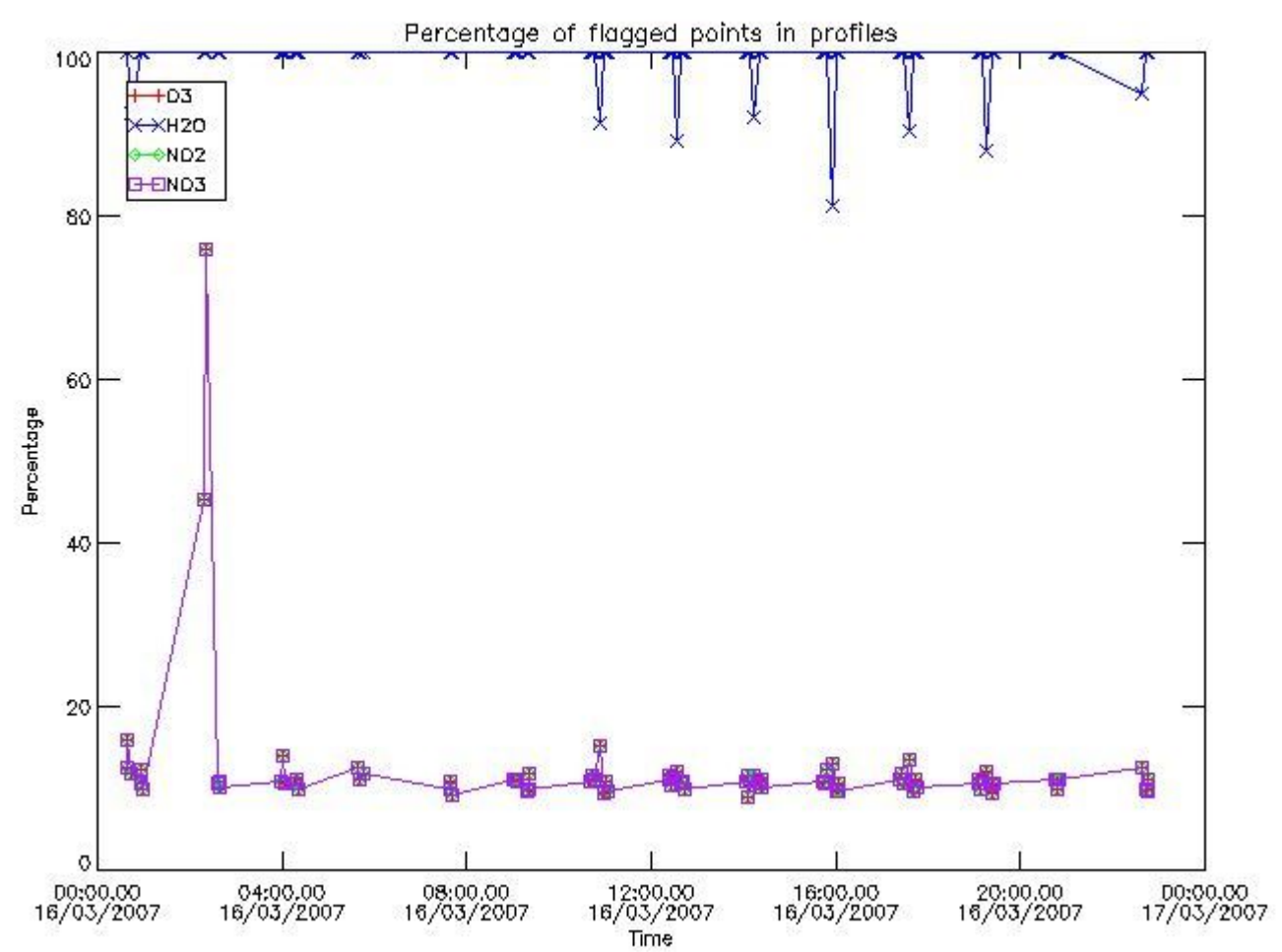
| Nr | Filename | UTC Start time | Limb | Duration | Star Id | Star Name | Star Mag | Star Temp | Nb Meas | Orbit | Prod. error |
|----|--|----------------------|------------|----------|---------|-----------|----------|-----------|---------|-------|-------------|
| 1 | GOM_NL__2PRFIN20070316_000239_000000412056_00245_26351_0942.N1 | 16-MAR-2007 00:02:39 | Bright | 40.500 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 81 | 26351 | No |
| 2 | GOM_NL__2PRFIN20070316_000645_000000462056_00245_26351_0943.N1 | 16-MAR-2007 00:06:45 | Bright | 46.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 92 | 26351 | No |
| 3 | GOM_NL__2PRFIN20070316_001557_000000392056_00245_26351_0944.N1 | 16-MAR-2007 00:15:57 | Bright | 38.500 | 144 | 18Del Cyg | 2.8600 | 11000. | 77 | 26351 | No |
| 4 | GOM_NL__2PRFIN20070316_001723_000000382056_00245_26351_0945.N1 | 16-MAR-2007 00:17:23 | Bright | 38.000 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 76 | 26351 | No |
| 5 | GOM_NL__2PRFIN20070316_002724_000000512056_00245_26351_0946.N1 | 16-MAR-2007 00:27:24 | Twilight | 50.500 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 101 | 26351 | No |
| 6 | GOM_NL__2PRFIN20070316_003731_000000452056_00245_26351_0947.N1 | 16-MAR-2007 00:37:31 | Dark | 44.500 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 89 | 26351 | No |
| 7 | GOM_NL__2PRFIN20070316_003933_000000452056_00245_26351_0948.N1 | 16-MAR-2007 00:39:33 | Dark | 44.500 | 57 | 34Sig Sgr | 2.0660 | 26000. | 89 | 26351 | No |
| 8 | GOM_NL__2PRFIN20070316_004300_000000482056_00245_26351_0949.N1 | 16-MAR-2007 00:43:00 | Dark | 47.500 | 38 | 20Eps Sgr | 1.8360 | 11000. | 95 | 26351 | No |
| 9 | GOM_NL__2PRFIN20070316_005519_000000532056_00246_26352_0948.N1 | 16-MAR-2007 00:55:19 | Dark | 52.500 | 131 | Gam Lup | 2.8000 | 26000. | 105 | 26352 | No |
| 10 | GOM_NL__2PRFIN20070316_005724_000000462056_00246_26352_0949.N1 | 16-MAR-2007 00:57:24 | Dark | 46.000 | 78 | Alp Lup | 2.3040 | 28000. | 92 | 26352 | No |
| 11 | GOM_NL__2PRFIN20070316_005851_000000512056_00246_26352_0950.N1 | 16-MAR-2007 00:58:51 | Dark | 51.000 | 81 | Eta Cen | 2.3560 | 28000. | 102 | 26352 | No |
| 12 | GOM_NL__2PRFIN20070316_010159_000000322056_00246_26352_0951.N1 | 16-MAR-2007 01:01:59 | Straylight | 32.000 | 54 | 5The Cen | 2.0550 | 4500.0 | 64 | 26352 | No |
| 13 | GOM_NL__2PRFIN20070316_010351_000000522056_00246_26352_0952.N1 | 16-MAR-2007 01:03:51 | Straylight | 51.500 | 123 | lot Cen | 2.7500 | 10200. | 103 | 26352 | No |
| 14 | GOM_NL__2PRFIN20070316_010941_000000572056_00246_26352_0953.N1 | 16-MAR-2007 01:09:41 | Straylight | 56.500 | 106 | 9Bet Crv | 2.6480 | 5600.0 | 113 | 26352 | No |
| 15 | GOM_NL__2PRFIN20070316_011202_000000502056_00246_26352_0954.N1 | 16-MAR-2007 01:12:02 | Twilight | 49.500 | 100 | 4Gam Crv | 2.5800 | 13100. | 99 | 26352 | No |
| 16 | GOM_NL__2PRFIN20070316_012318_000000482056_00246_26352_0955.N1 | 16-MAR-2007 01:23:18 | Bright | 47.500 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 95 | 26352 | No |
| 17 | GOM_NL__2PRFIN20070316_013129_000000402056_00246_26352_0956.N1 | 16-MAR-2007 01:31:29 | Bright | 40.000 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 80 | 26352 | No |
| 18 | GOM_NL__2PRFIN20070316_013440_000000372056_00246_26352_0957.N1 | 16-MAR-2007 01:34:40 | Bright | 36.500 | 82 | 48Bet UMa | 2.3650 | 10600. | 73 | 26352 | No |
| 19 | GOM_NL__2PRFIN20070316_013609_000000392056_00246_26352_0958.N1 | 16-MAR-2007 01:36:09 | Bright | 39.000 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 78 | 26352 | No |
| 20 | GOM_NL__2PRFIN20070316_013748_000000452056_00246_26352_0959.N1 | 16-MAR-2007 01:37:48 | Bright | 44.500 | 32 | 77Eps UMa | 1.7630 | 11000. | 89 | 26352 | No |
| 21 | GOM_NL__2PRFIN20070316_014314_000000372056_00246_26352_0960.N1 | 16-MAR-2007 01:43:14 | Bright | 37.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 74 | 26352 | No |
| 22 | GOM_NL__2PRFIN20070316_014721_000000472056_00246_26352_0961.N1 | 16-MAR-2007 01:47:21 | Bright | 47.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 94 | 26352 | No |
| 23 | GOM_NL__2PRFIN20070316_015633_000000392056_00246_26352_0962.N1 | 16-MAR-2007 01:56:33 | Bright | 38.500 | 144 | 18Del Cyg | 2.8600 | 11000. | 77 | 26352 | No |
| 24 | GOM_NL__2PRFIN20070316_015759_000000372056_00246_26352_0963.N1 | 16-MAR-2007 01:57:59 | Bright | 36.500 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 73 | 26352 | No |
| 25 | GOM_NL__2PRFIN20070316_020800_000000492056_00246_26352_0964.N1 | 16-MAR-2007 02:08:00 | Twilight | 49.000 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 98 | 26352 | No |
| 26 | GOM_NL__2PRFIN20070316_021808_000000432056_00246_26352_0965.N1 | 16-MAR-2007 02:18:08 | Dark | 42.500 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 85 | 26352 | No |
| 27 | GOM_NL__2PRFIN20070316_022010_000000442056_00246_26352_0966.N1 | 16-MAR-2007 02:20:10 | Dark | 44.000 | 57 | 34Sig Sgr | 2.0660 | 26000. | 88 | 26352 | No |
| 28 | GOM_NL__2PRFIN20070316_023556_000000532056_00247_26353_0963.N1 | 16-MAR-2007 02:35:56 | Dark | 52.500 | 131 | Gam Lup | 2.8000 | 26000. | 105 | 26353 | No |
| 29 | GOM_NL__2PRFIN20070316_023801_000000482056_00247_26353_0964.N1 | 16-MAR-2007 02:38:01 | Dark | 47.500 | 78 | Alp Lup | 2.3040 | 28000. | 95 | 26353 | No |
| 30 | GOM_NL__2PRFIN20070316_023927_000000512056_00247_26353_0965.N1 | 16-MAR-2007 02:39:27 | Dark | 50.500 | 81 | Eta Cen | 2.3560 | 28000. | 101 | 26353 | No |
| 31 | GOM_NL__2PRFIN20070316_024235_000000322056_00247_26353_0966.N1 | 16-MAR-2007 02:42:35 | Straylight | 32.000 | 54 | 5The Cen | 2.0550 | 4500.0 | 64 | 26353 | No |
| 32 | GOM_NL__2PRFIN20070316_024427_000000482056_00247_26353_0967.N1 | 16-MAR-2007 02:44:27 | Straylight | 47.500 | 123 | lot Cen | 2.7500 | 10200. | 95 | 26353 | No |
| 33 | GOM_NL__2PRFIN20070316_025018_000000552056_00247_26353_0968.N1 | 16-MAR-2007 02:50:18 | Straylight | 55.000 | 106 | 9Bet Crv | 2.6480 | 5600.0 | 110 | 26353 | No |
| 34 | GOM_NL__2PRFIN20070316_025238_000000532056_00247_26353_0969.N1 | 16-MAR-2007 02:52:38 | Twilight | 53.000 | 100 | 4Gam Crv | 2.5800 | 13100. | 106 | 26353 | No |
| 35 | GOM_NL__2PRFIN20070316_030353_000000482056_00247_26353_0970.N1 | 16-MAR-2007 03:03:53 | Bright | 47.500 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 95 | 26353 | No |
| 36 | GOM_NL__2PRFIN20070316_031205_000000392056_00247_26353_0971.N1 | 16-MAR-2007 03:12:05 | Bright | 39.000 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 78 | 26353 | No |
| 37 | GOM_NL__2PRFIN20070316_031515_000000372056_00247_26353_0972.N1 | 16-MAR-2007 03:15:15 | Bright | 36.500 | 82 | 48Bet UMa | 2.3650 | 10600. | 73 | 26353 | No |
| 38 | GOM_NL__2PRFIN20070316_031645_000000392056_00247_26353_0973.N1 | 16-MAR-2007 03:16:45 | Bright | 39.000 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 78 | 26353 | No |
| 39 | GOM_NL__2PRFIN20070316_031823_000000462056_00247_26353_0974.N1 | 16-MAR-2007 03:18:23 | Bright | 46.000 | 32 | 77Eps UMa | 1.7630 | 11000. | 92 | 26353 | No |
| 40 | GOM_NL__2PRFIN20070316_032350_000000412056_00247_26353_0975.N1 | 16-MAR-2007 03:23:50 | Bright | 40.500 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 81 | 26353 | No |
| 41 | GOM_NL__2PRFIN20070316_032756_000000462056_00247_26353_0976.N1 | 16-MAR-2007 03:27:56 | Bright | 45.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 91 | 26353 | No |
| 42 | GOM_NL__2PRFIN20070316_033709_000000392056_00247_26353_0977.N1 | 16-MAR-2007 03:37:09 | Bright | 39.000 | 144 | 18Del Cyg | 2.8600 | 11000. | 78 | 26353 | No |

| | | | | | | | | | | | |
|-----|--|----------------------|----------------|--------|-----|-----------|---------|--------|-----|-------|----|
| 220 | GOM_NL__2PRFIN20070316_192843_000000432056_00257_26363_1151.N1 | 16-MAR-2007 19:28:43 | Straylight | 43.000 | 54 | 5The Cen | 2.0550 | 4500.0 | 86 | 26363 | No |
| 221 | GOM_NL__2PRFIN20070316_193032_000000512056_00257_26363_1152.N1 | 16-MAR-2007 19:30:32 | Straylight | 51.000 | 123 | 1ot Cen | 2.7500 | 10200. | 102 | 26363 | No |
| 222 | GOM_NL__2PRFIN20070316_193620_000000532056_00257_26363_1153.N1 | 16-MAR-2007 19:36:20 | Straylight | 53.000 | 106 | 9Bet Crv | 2.6480 | 5600.0 | 106 | 26363 | No |
| 223 | GOM_NL__2PRFIN20070316_193839_000000512056_00257_26363_1154.N1 | 16-MAR-2007 19:38:39 | Tw_i_and_stray | 50.500 | 100 | 4Gam Crv | 2.5800 | 13100. | 101 | 26363 | No |
| 224 | GOM_NL__2PRFIN20070316_194948_000000452056_00257_26363_1155.N1 | 16-MAR-2007 19:49:48 | Bright | 45.000 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 90 | 26363 | No |
| 225 | GOM_NL__2PRFIN20070316_195801_000000402056_00257_26363_1156.N1 | 16-MAR-2007 19:58:01 | Bright | 39.500 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 79 | 26363 | No |
| 226 | GOM_NL__2PRFIN20070316_200112_000000382056_00257_26363_1157.N1 | 16-MAR-2007 20:01:12 | Bright | 38.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 76 | 26363 | No |
| 227 | GOM_NL__2PRFIN20070316_200242_000000402056_00257_26363_1158.N1 | 16-MAR-2007 20:02:42 | Bright | 39.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 79 | 26363 | No |
| 228 | GOM_NL__2PRFIN20070316_200416_000000452056_00257_26363_1159.N1 | 16-MAR-2007 20:04:16 | Bright | 45.000 | 32 | 77Eps UMa | 1.7630 | 11000. | 90 | 26363 | No |
| 229 | GOM_NL__2PRFIN20070316_200946_000000402056_00257_26363_1160.N1 | 16-MAR-2007 20:09:46 | Bright | 40.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 80 | 26363 | No |
| 230 | GOM_NL__2PRFIN20070316_201349_000000462056_00257_26363_1161.N1 | 16-MAR-2007 20:13:49 | Bright | 46.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 92 | 26363 | No |
| 231 | GOM_NL__2PRFIN20070316_202308_000000392056_00257_26363_1162.N1 | 16-MAR-2007 20:23:08 | Bright | 38.500 | 144 | 18Del Cyg | 2.8600 | 11000. | 77 | 26363 | No |
| 232 | GOM_NL__2PRFIN20070316_202435_000000362056_00257_26363_1163.N1 | 16-MAR-2007 20:24:35 | Bright | 35.500 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 71 | 26363 | No |
| 233 | GOM_NL__2PRFIN20070316_203440_000000502056_00257_26363_1164.N1 | 16-MAR-2007 20:34:40 | Tw_i_and_stray | 50.000 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 100 | 26363 | No |
| 234 | GOM_NL__2PRFIN20070316_204452_000000462056_00257_26363_1165.N1 | 16-MAR-2007 20:44:52 | Dark | 46.000 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 92 | 26363 | No |
| 235 | GOM_NL__2PRFIN20070316_204654_000000462056_00257_26363_1166.N1 | 16-MAR-2007 20:46:54 | Dark | 46.000 | 57 | 34Sig Sgr | 2.0660 | 26000. | 92 | 26363 | No |
| 236 | GOM_NL__2PRFIN20070316_204818_000000512056_00257_26363_1167.N1 | 16-MAR-2007 20:48:18 | Dark | 51.000 | 137 | 22Lam Sgr | 2.8240 | 4400.0 | 102 | 26363 | No |
| 237 | GOM_NL__2PRFIN20070316_205023_000000462056_00257_26363_1168.N1 | 16-MAR-2007 20:50:23 | Dark | 46.000 | 38 | 20Eps Sgr | 1.8360 | 11000. | 92 | 26363 | No |
| 238 | GOM_NL__2PRFIN20070316_223658_000000412056_00259_26365_1198.N1 | 16-MAR-2007 22:36:58 | Dark | 40.500 | 141 | Bet Ara | 2.8400 | 4600.0 | 81 | 26365 | No |
| 239 | GOM_NL__2PRFIN20070316_224321_000000522056_00259_26365_1199.N1 | 16-MAR-2007 22:43:21 | Dark | 51.500 | 131 | Gam Lup | 2.8000 | 26000. | 103 | 26365 | No |
| 240 | GOM_NL__2PRFIN20070316_224522_000000462056_00259_26365_1200.N1 | 16-MAR-2007 22:45:22 | Dark | 46.000 | 78 | Alp Lup | 2.3040 | 28000. | 92 | 26365 | No |
| 241 | GOM_NL__2PRFIN20070316_224649_000000542056_00259_26365_1201.N1 | 16-MAR-2007 22:46:49 | Dark | 53.500 | 81 | Eta Cen | 2.3560 | 28000. | 107 | 26365 | No |
| 242 | GOM_NL__2PRFIN20070316_224956_000000462056_00259_26365_1202.N1 | 16-MAR-2007 22:49:56 | Straylight | 46.000 | 54 | 5The Cen | 2.0550 | 4500.0 | 92 | 26365 | No |
| 243 | GOM_NL__2PRFIN20070316_225146_000000502056_00259_26365_1203.N1 | 16-MAR-2007 22:51:46 | Straylight | 49.500 | 123 | 1ot Cen | 2.7500 | 10200. | 99 | 26365 | No |
| 244 | GOM_NL__2PRFIN20070316_225732_000000532056_00259_26365_1204.N1 | 16-MAR-2007 22:57:32 | Straylight | 53.000 | 106 | 9Bet Crv | 2.6480 | 5600.0 | 106 | 26365 | No |
| 245 | GOM_NL__2PRFIN20070316_225951_000000512056_00259_26365_1205.N1 | 16-MAR-2007 22:59:51 | Tw_i_and_stray | 51.000 | 100 | 4Gam Crv | 2.5800 | 13100. | 102 | 26365 | No |
| 246 | GOM_NL__2PRFIN20070316_231059_000000462056_00259_26365_1206.N1 | 16-MAR-2007 23:10:59 | Bright | 46.000 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 92 | 26365 | No |
| 247 | GOM_NL__2PRFIN20070316_231912_000000402056_00259_26365_1207.N1 | 16-MAR-2007 23:19:12 | Bright | 40.000 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 80 | 26365 | No |
| 248 | GOM_NL__2PRFIN20070316_232223_000000432056_00259_26365_1208.N1 | 16-MAR-2007 23:22:23 | Bright | 42.500 | 82 | 48Bet UMa | 2.3650 | 10600. | 85 | 26365 | No |
| 249 | GOM_NL__2PRFIN20070316_232353_000000382056_00259_26365_1209.N1 | 16-MAR-2007 23:23:53 | Bright | 37.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 75 | 26365 | No |
| 250 | GOM_NL__2PRFIN20070316_232526_000000452056_00259_26365_1210.N1 | 16-MAR-2007 23:25:26 | Bright | 45.000 | 32 | 77Eps UMa | 1.7630 | 11000. | 90 | 26365 | No |
| 251 | GOM_NL__2PRFIN20070316_233057_000000412056_00259_26365_1211.N1 | 16-MAR-2007 23:30:57 | Bright | 41.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 82 | 26365 | No |
| 252 | GOM_NL__2PRFIN20070316_233500_000000452056_00259_26365_1212.N1 | 16-MAR-2007 23:35:00 | Bright | 45.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 90 | 26365 | No |
| 253 | GOM_NL__2PRFIN20070316_234420_000000472056_00259_26365_1213.N1 | 16-MAR-2007 23:44:20 | Bright | 46.500 | 144 | 18Del Cyg | 2.8600 | 11000. | 93 | 26365 | No |
| 254 | GOM_NL__2PRFIN20070316_234547_000000382056_00259_26365_1214.N1 | 16-MAR-2007 23:45:47 | Bright | 37.500 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 75 | 26365 | No |
| 255 | GOM_NL__2PRFIN20070316_235552_000000512056_00259_26365_1215.N1 | 16-MAR-2007 23:55:52 | Tw_i_and_stray | 50.500 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 101 | 26365 | No |

3. Quality information per product

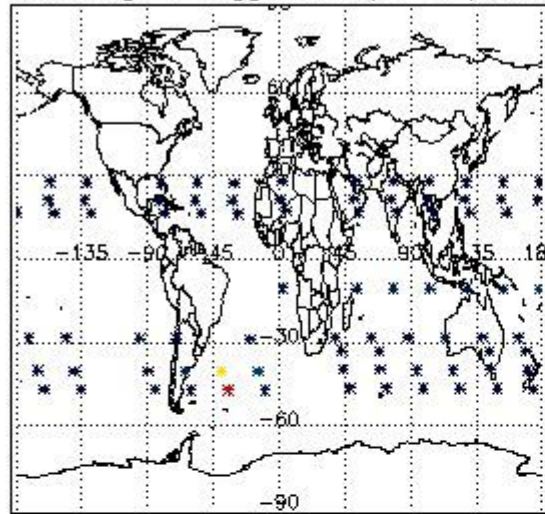
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

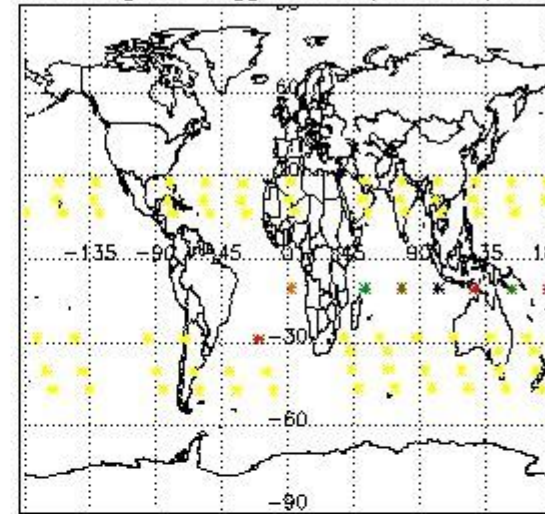


3.2 Plot quality information per product (world map)

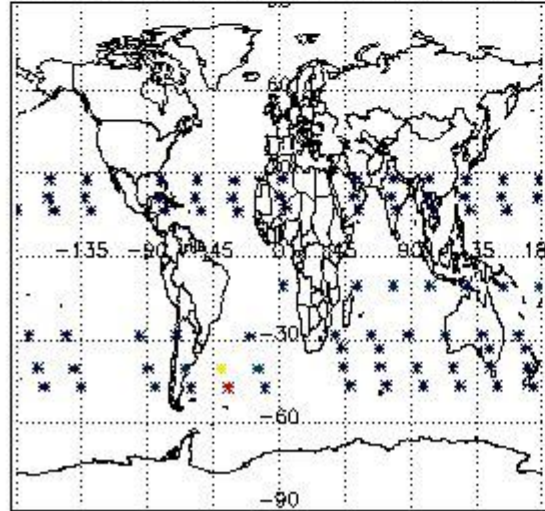
Percentage of flagged data per O3 profile



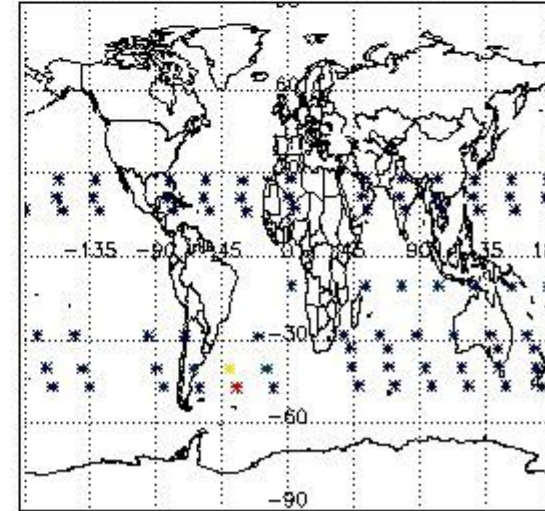
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

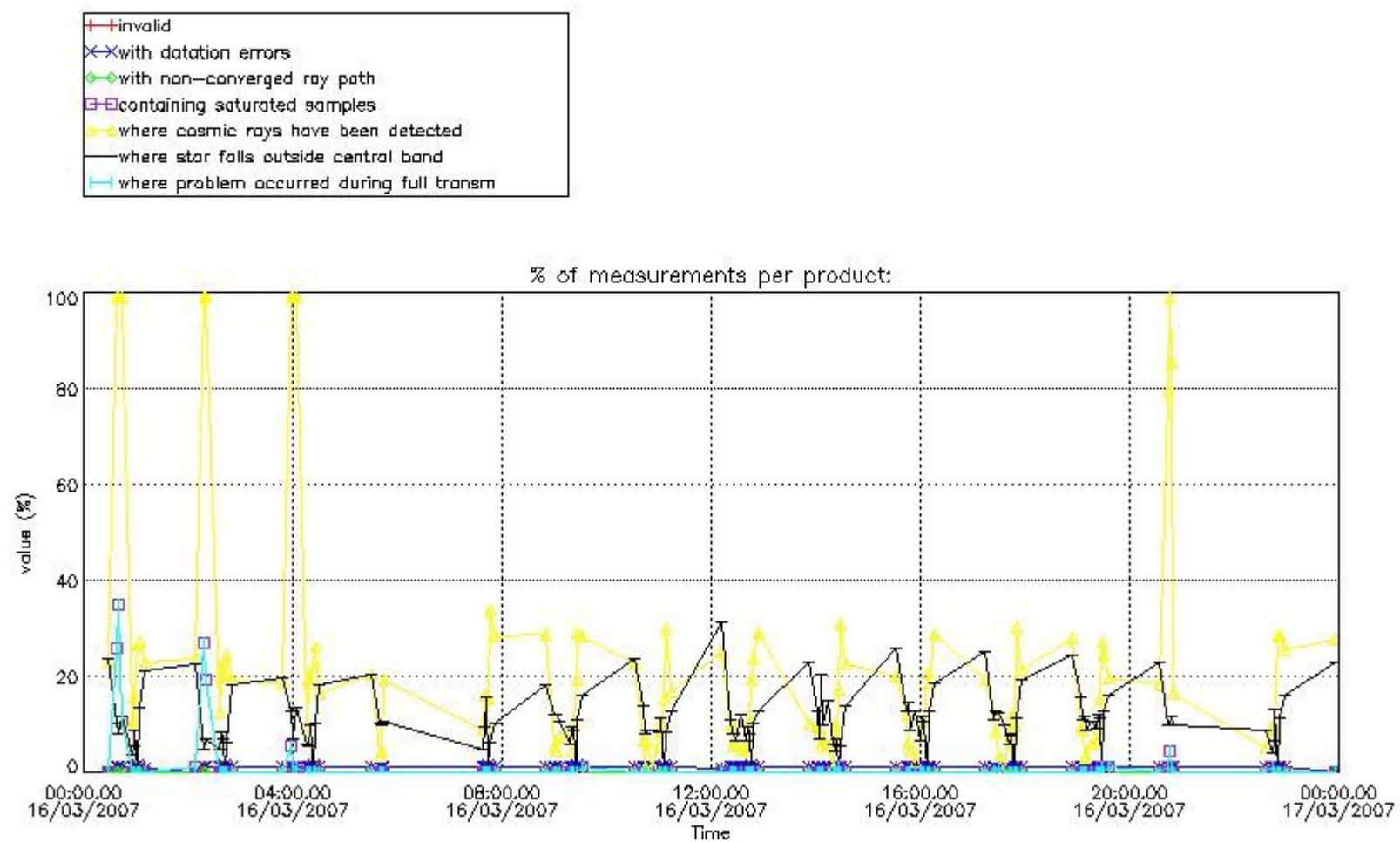


4. Level 1 quality information per product

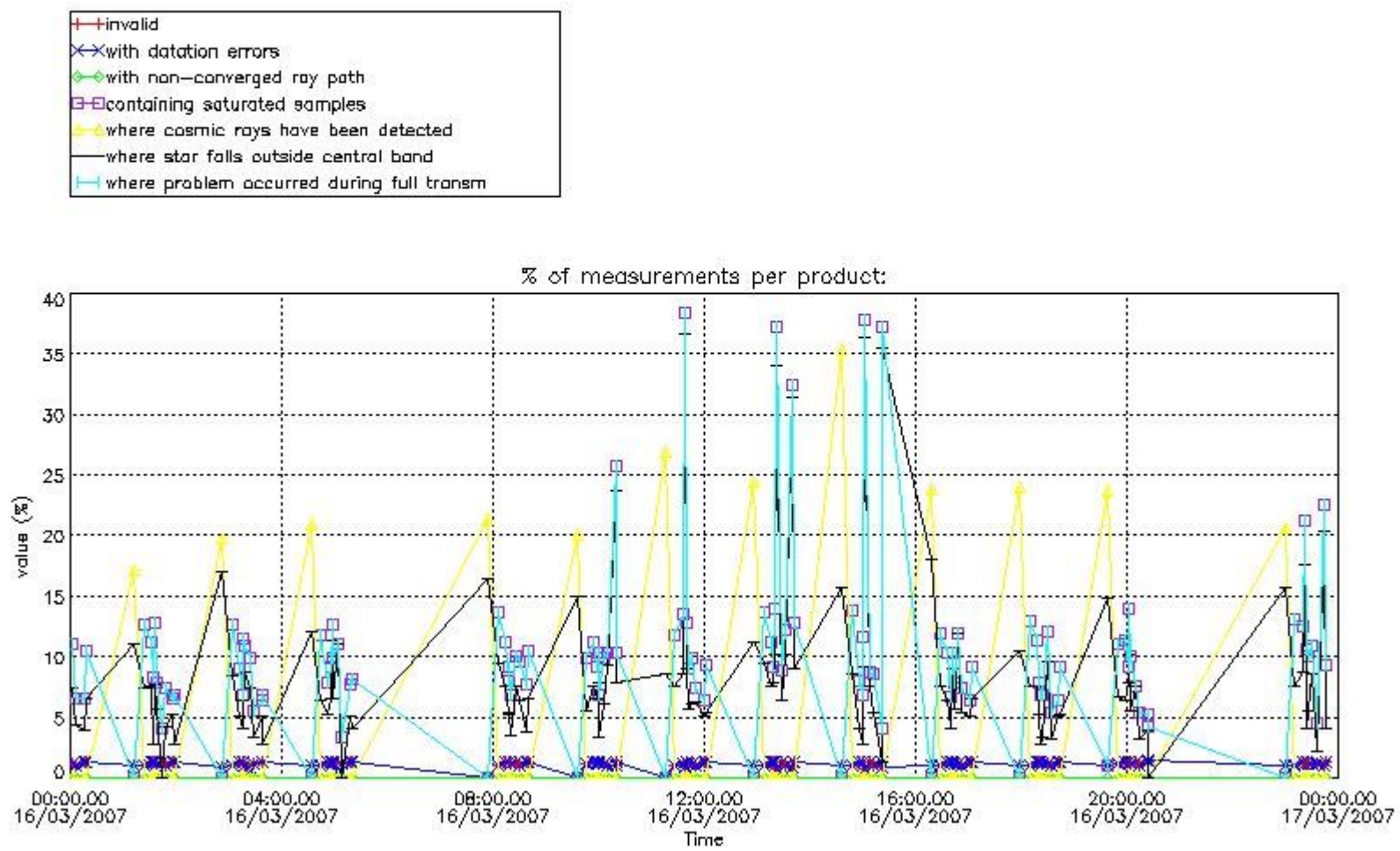
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



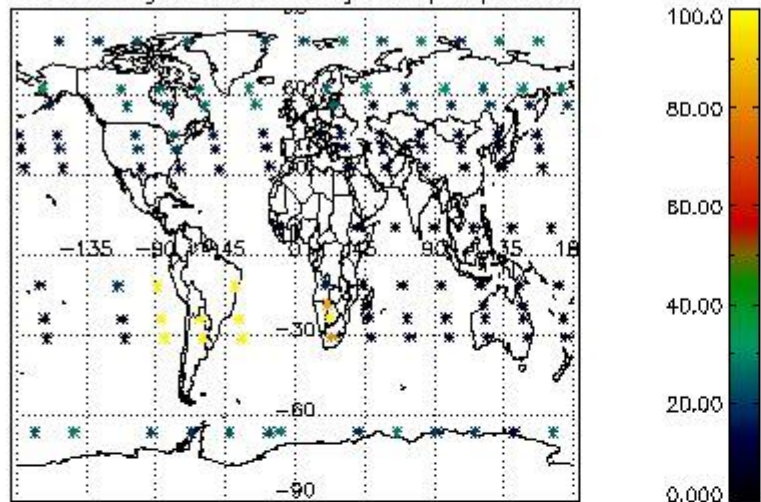
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



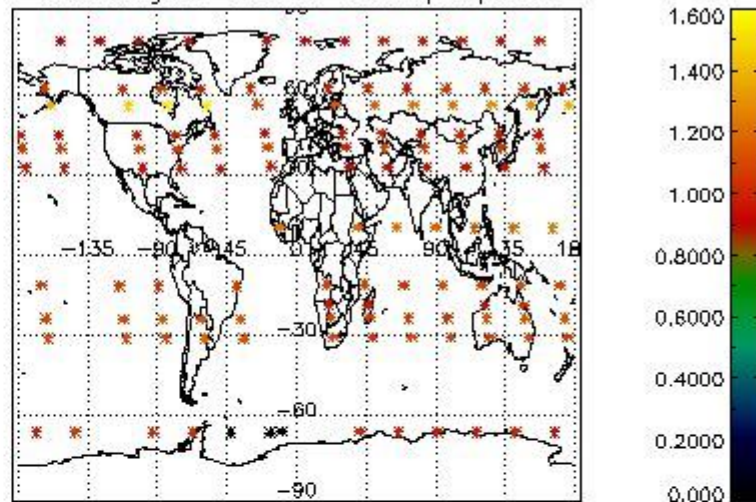
4.2 Plot quality information per product coming from level 1b processing (world map)

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

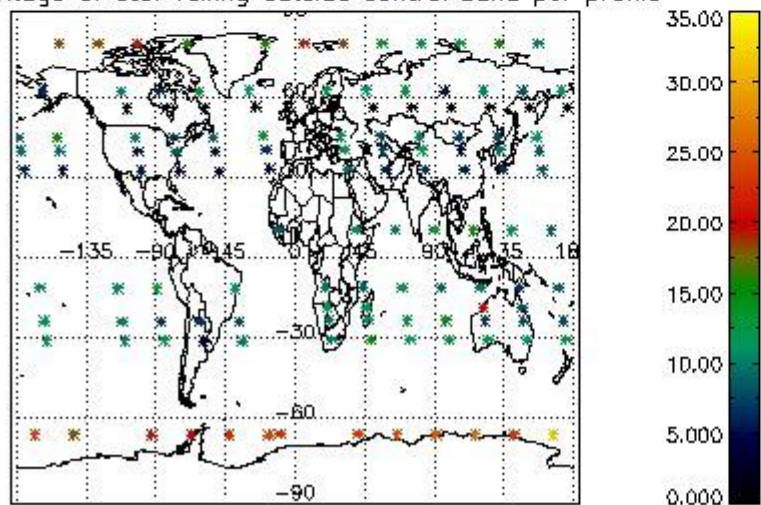
Percentage of cosmic ray hits per profile



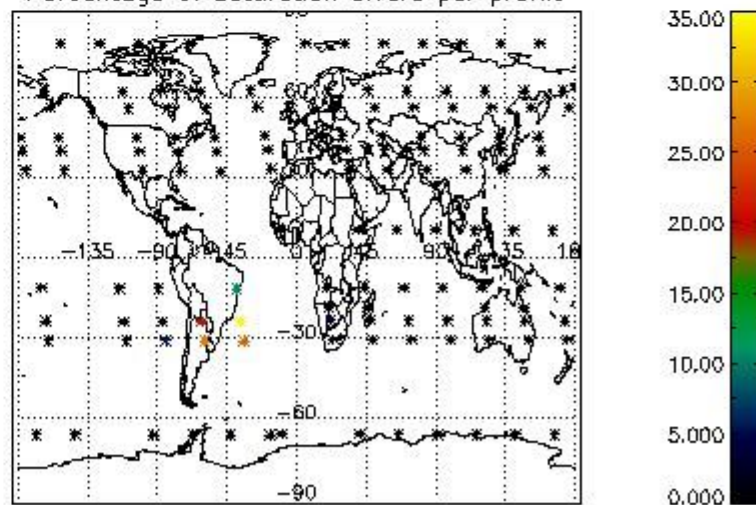
Percentage of datation errors per profile



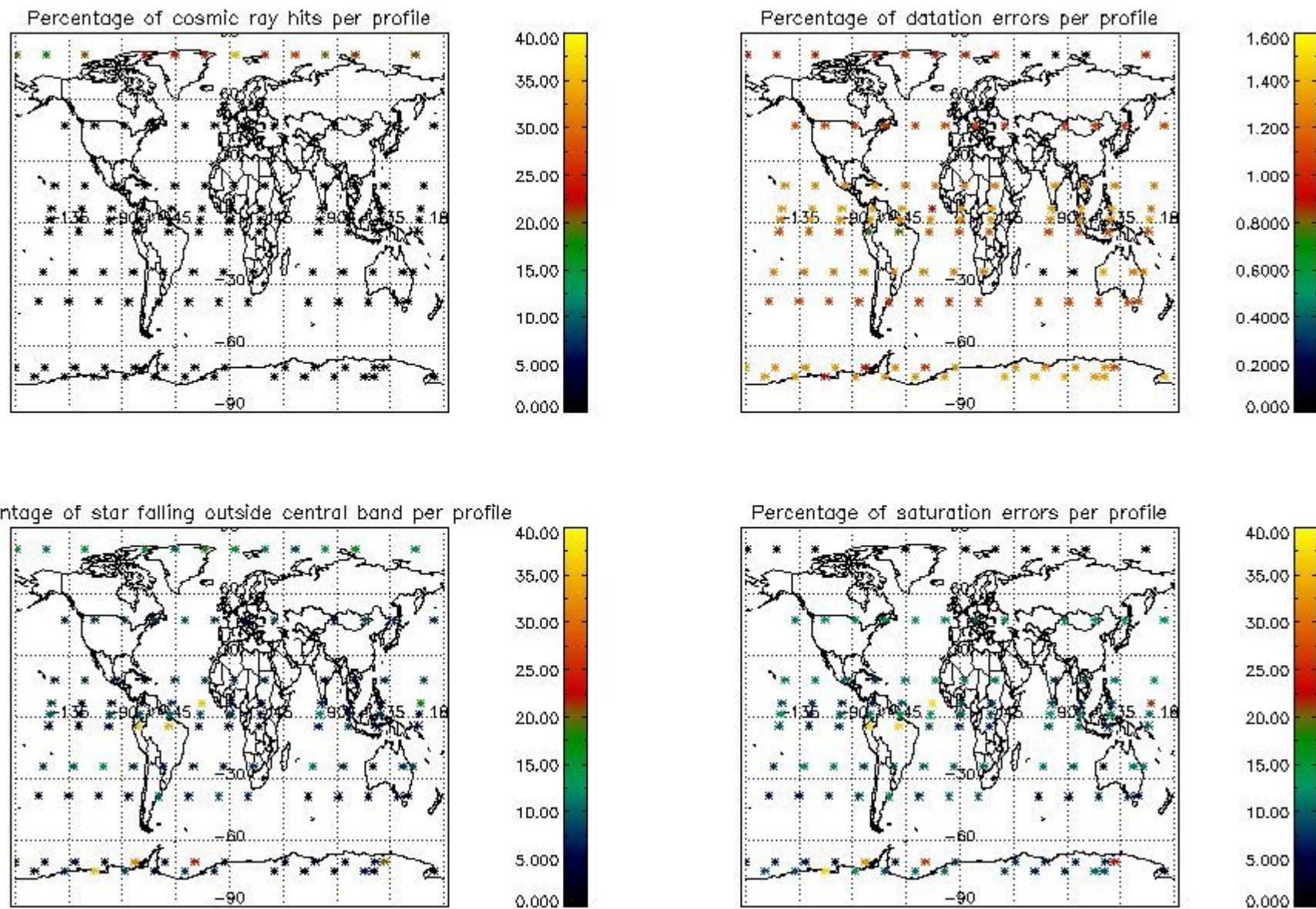
Percentage of star falling outside central band per profile



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

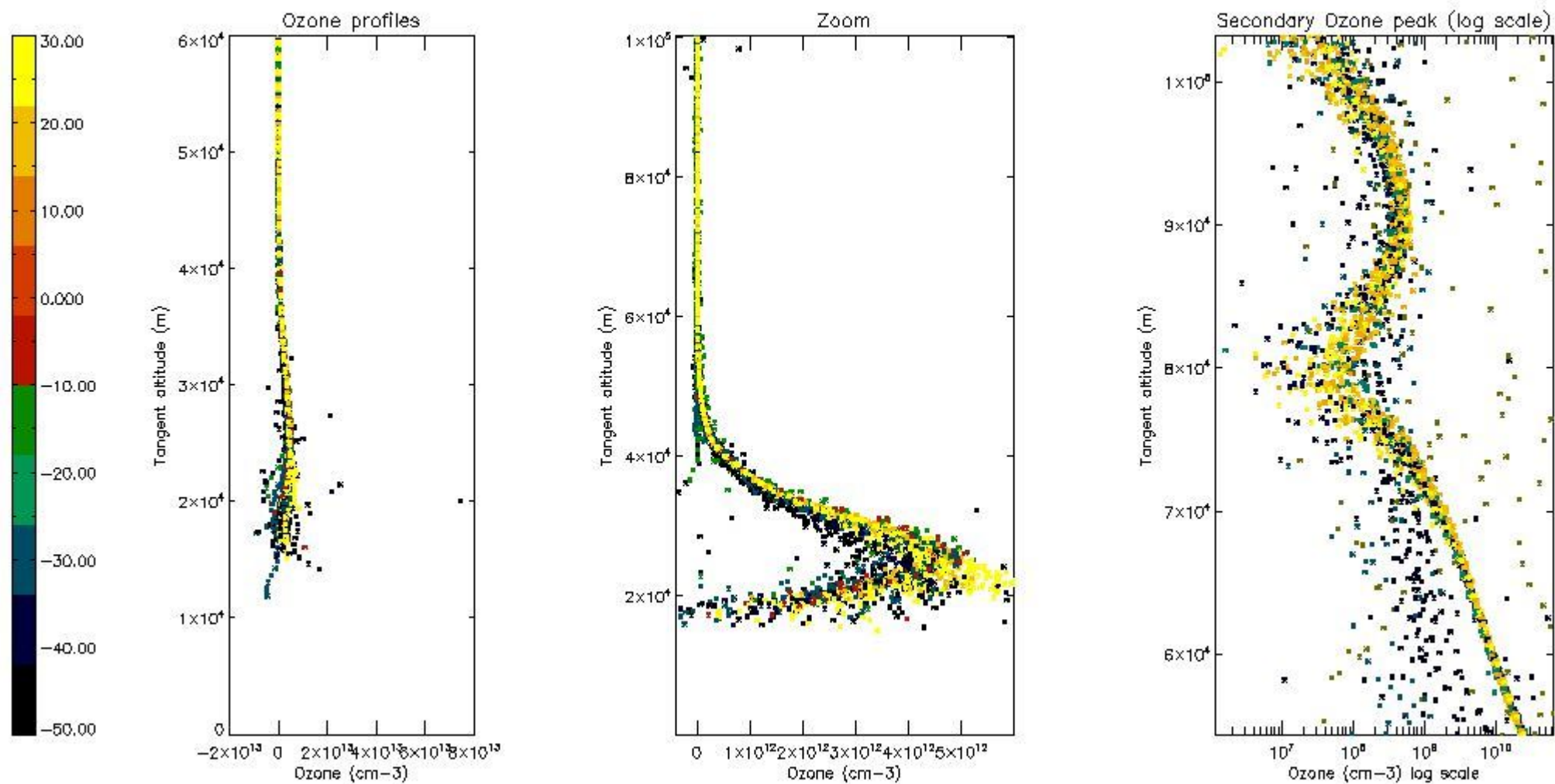
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

| Criteria | % of total production |
|----------|-----------------------|
| All STD | 34 |
| STD < 20 | 20 |

| | |
|----------|----|
| STD < 10 | 16 |
| STD < 5 | 12 |

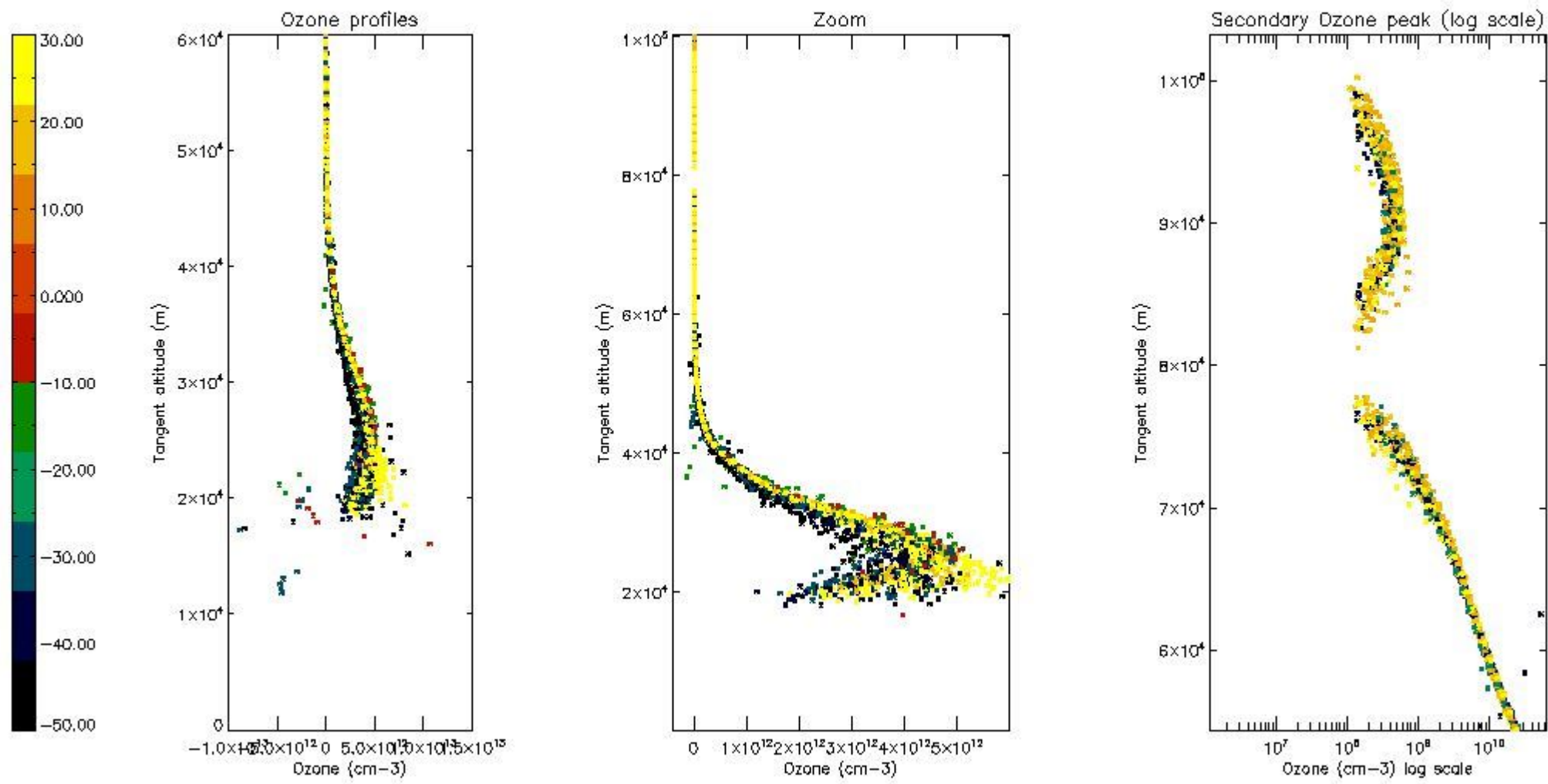
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



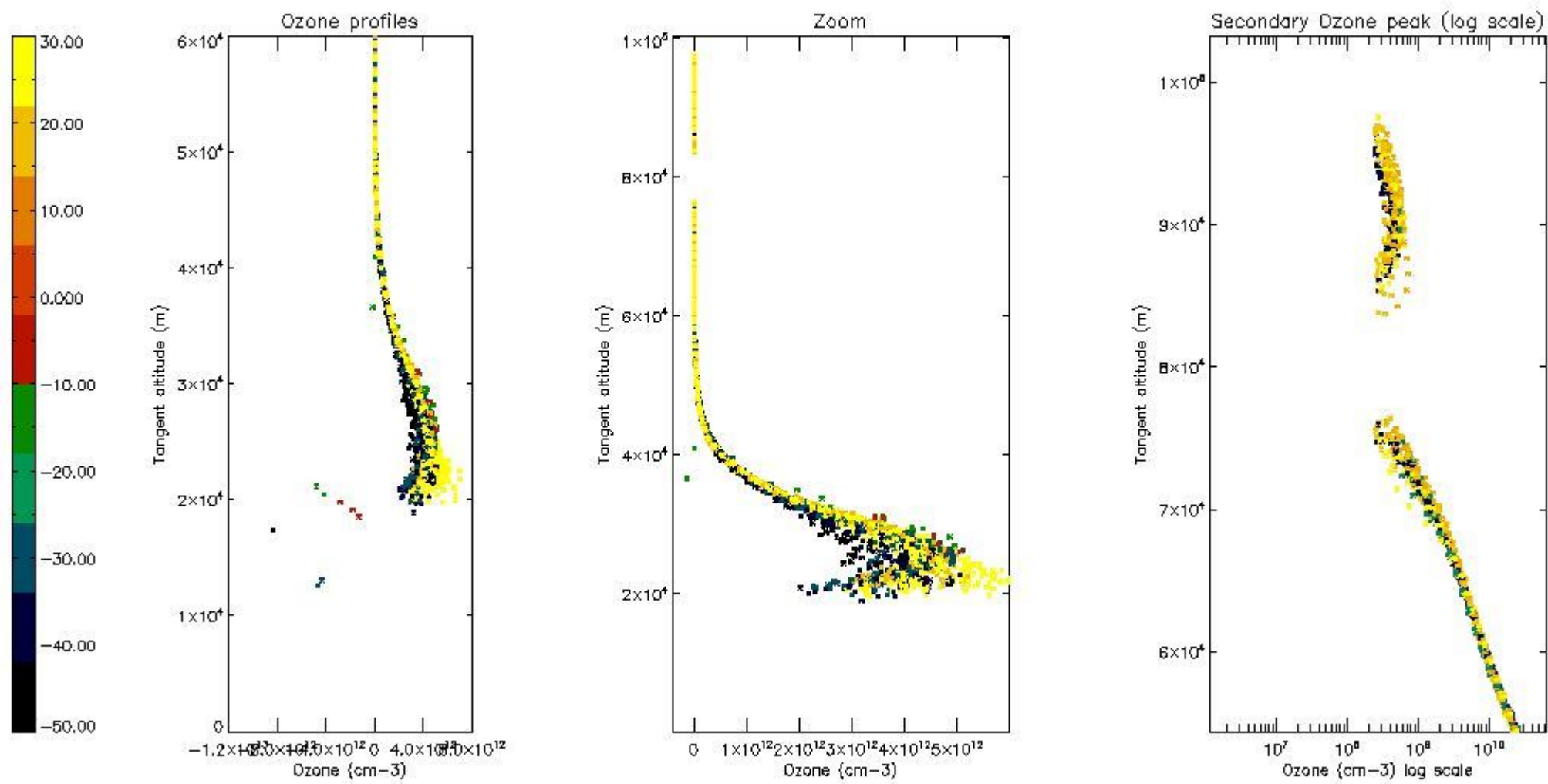
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



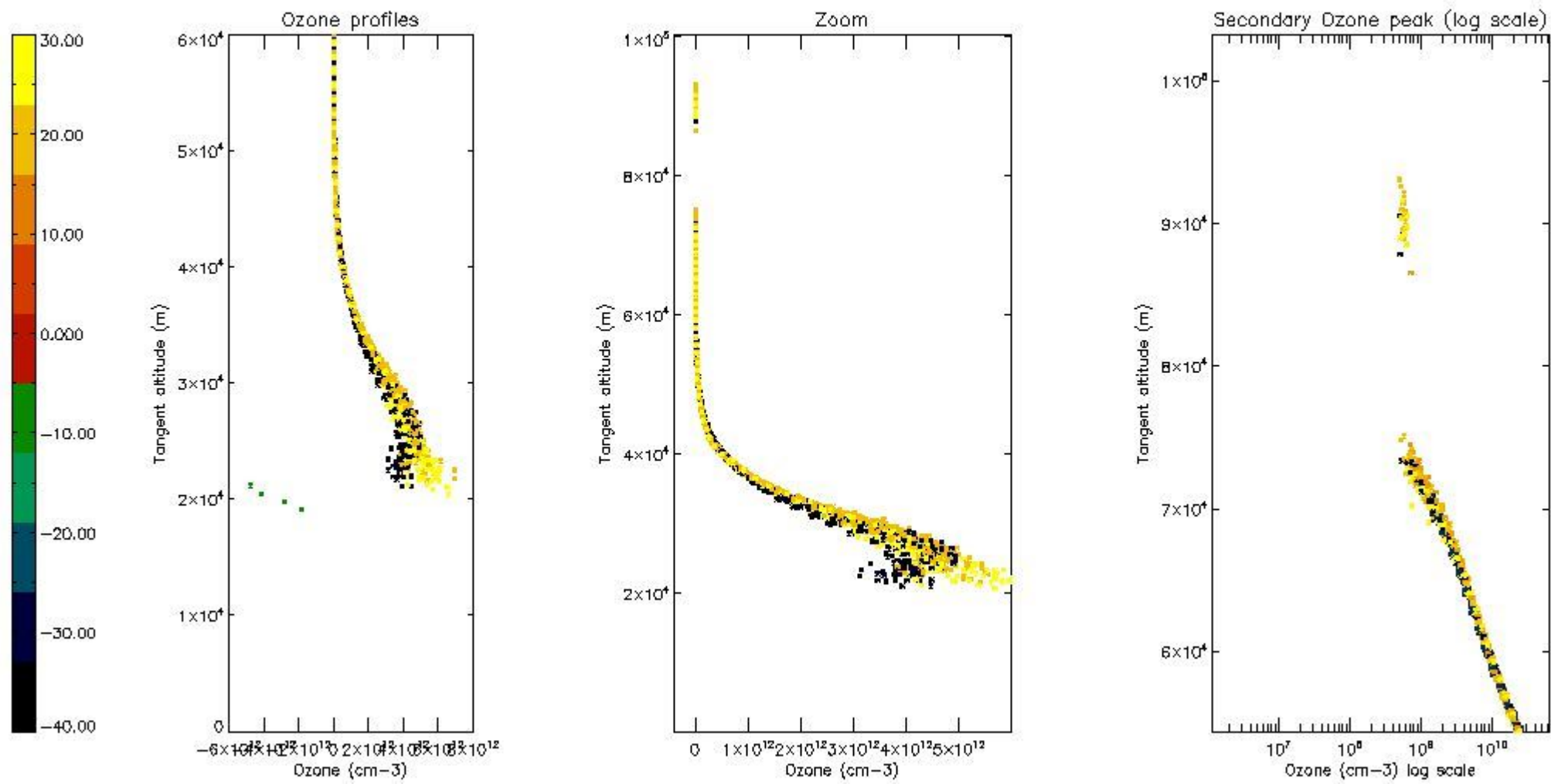
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



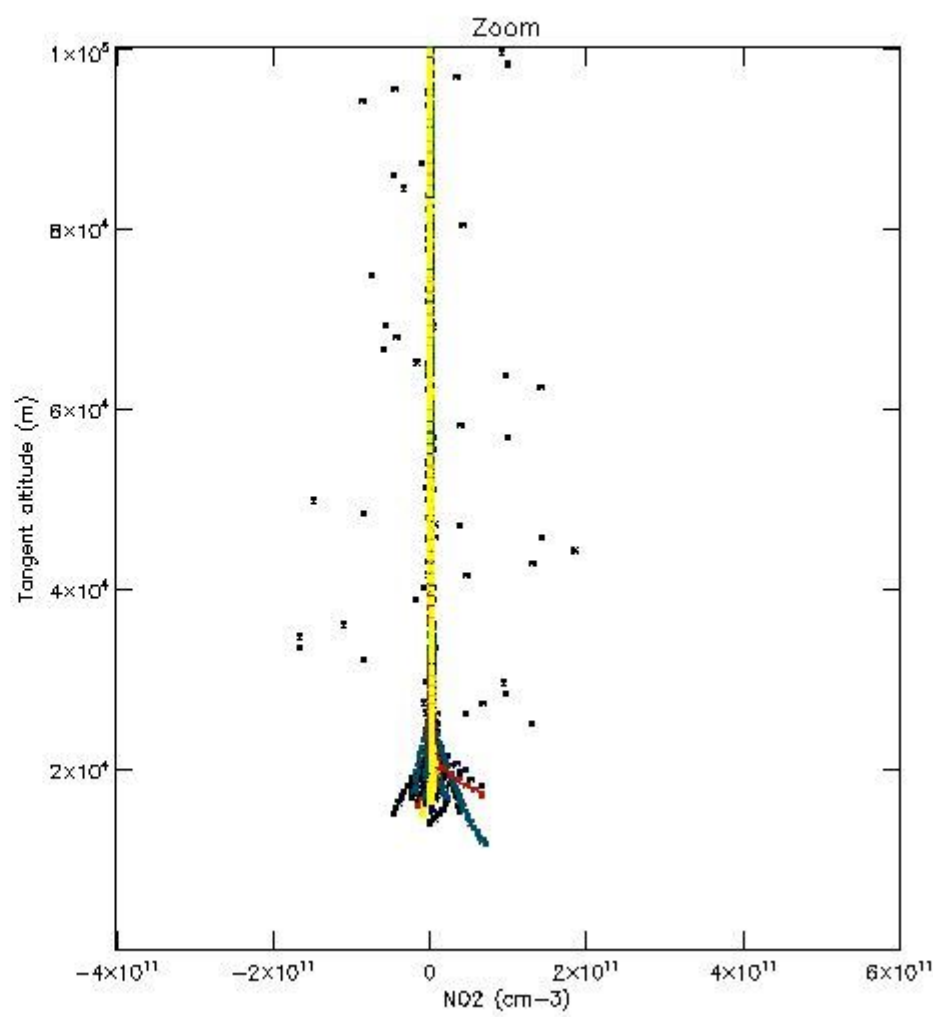
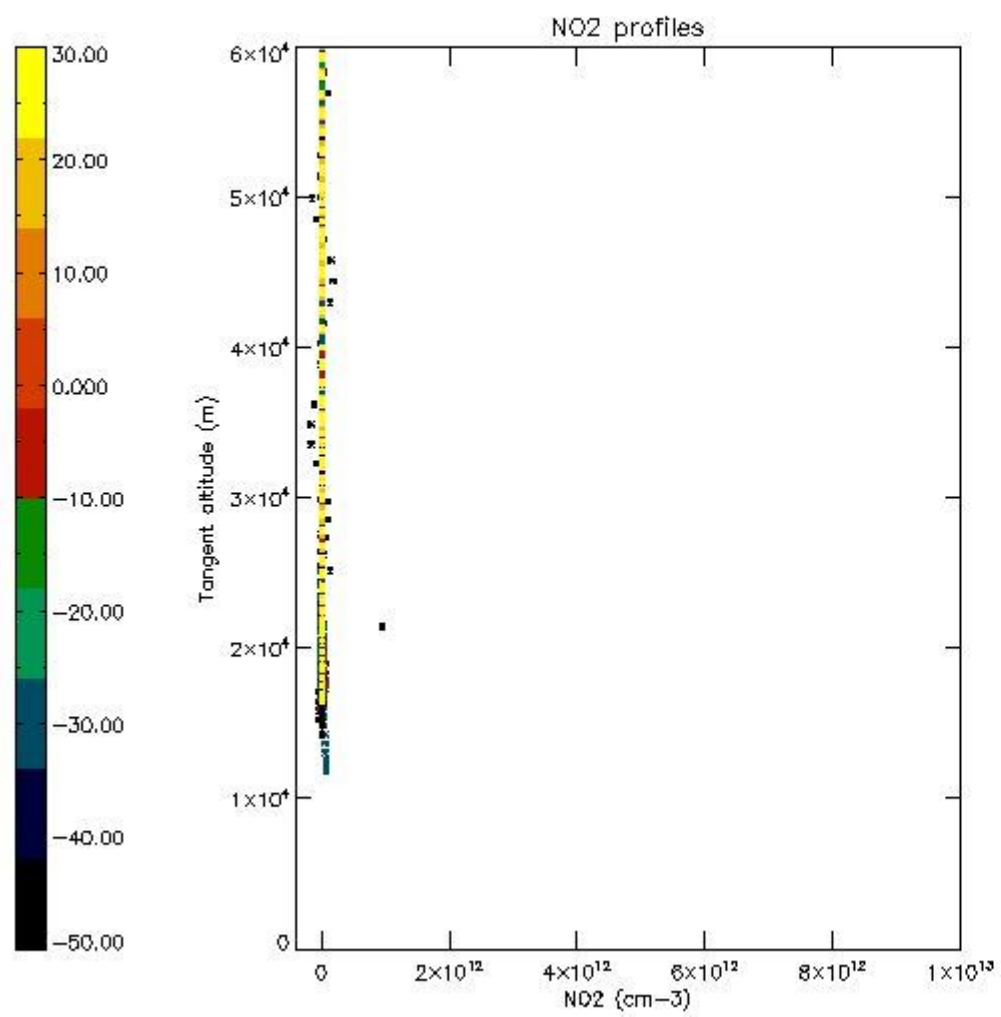
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



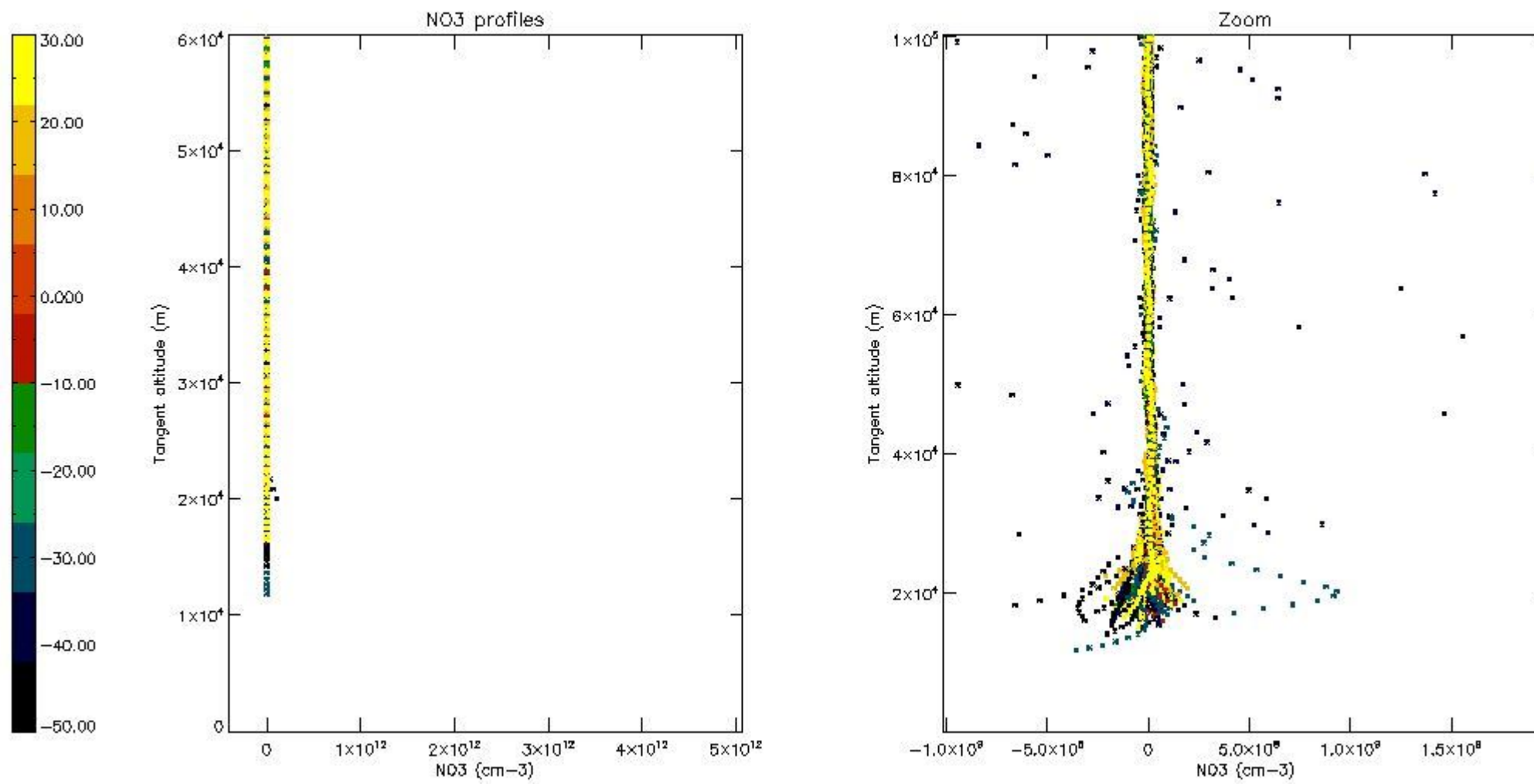
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|---|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000 | 1 | 16-MAR-2007 00:02:39 |
| LEVEL-2_PROC_CONFIG | GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000 | 1 | 16-MAR-2007 00:02:39 |
| CROSS_SECTIONS_FILE | GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000 | 1 | 16-MAR-2007 00:02:39 |

GOMOS Level 2 Daily Report

SUMMARY

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

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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](#)

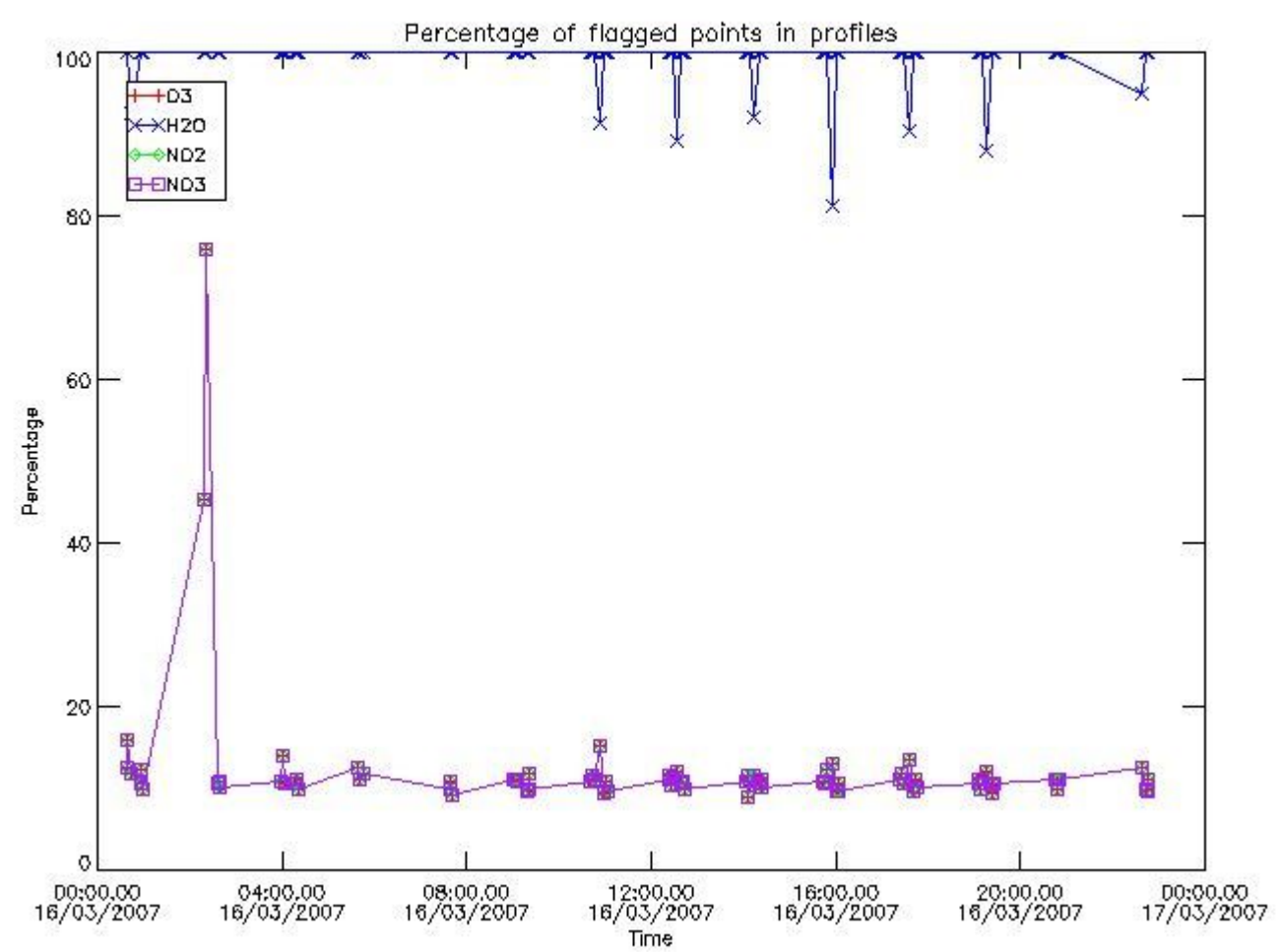
[6. Auxiliary Data Files used for the production reported in section 2](#)

| | | | | | | | | | | | |
|-----|--|----------------------|----------------|--------|-----|-----------|---------|--------|-----|-------|----|
| 220 | GOM_NL__2PRFIN20070316_192843_000000432056_00257_26363_1151.N1 | 16-MAR-2007 19:28:43 | Straylight | 43.000 | 54 | 5The Cen | 2.0550 | 4500.0 | 86 | 26363 | No |
| 221 | GOM_NL__2PRFIN20070316_193032_000000512056_00257_26363_1152.N1 | 16-MAR-2007 19:30:32 | Straylight | 51.000 | 123 | 1ot Cen | 2.7500 | 10200. | 102 | 26363 | No |
| 222 | GOM_NL__2PRFIN20070316_193620_000000532056_00257_26363_1153.N1 | 16-MAR-2007 19:36:20 | Straylight | 53.000 | 106 | 9Bet Crv | 2.6480 | 5600.0 | 106 | 26363 | No |
| 223 | GOM_NL__2PRFIN20070316_193839_000000512056_00257_26363_1154.N1 | 16-MAR-2007 19:38:39 | Tw_i_and_stray | 50.500 | 100 | 4Gam Crv | 2.5800 | 13100. | 101 | 26363 | No |
| 224 | GOM_NL__2PRFIN20070316_194948_000000452056_00257_26363_1155.N1 | 16-MAR-2007 19:49:48 | Bright | 45.000 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 90 | 26363 | No |
| 225 | GOM_NL__2PRFIN20070316_195801_000000402056_00257_26363_1156.N1 | 16-MAR-2007 19:58:01 | Bright | 39.500 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 79 | 26363 | No |
| 226 | GOM_NL__2PRFIN20070316_200112_000000382056_00257_26363_1157.N1 | 16-MAR-2007 20:01:12 | Bright | 38.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 76 | 26363 | No |
| 227 | GOM_NL__2PRFIN20070316_200242_000000402056_00257_26363_1158.N1 | 16-MAR-2007 20:02:42 | Bright | 39.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 79 | 26363 | No |
| 228 | GOM_NL__2PRFIN20070316_200416_000000452056_00257_26363_1159.N1 | 16-MAR-2007 20:04:16 | Bright | 45.000 | 32 | 77Eps UMa | 1.7630 | 11000. | 90 | 26363 | No |
| 229 | GOM_NL__2PRFIN20070316_200946_000000402056_00257_26363_1160.N1 | 16-MAR-2007 20:09:46 | Bright | 40.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 80 | 26363 | No |
| 230 | GOM_NL__2PRFIN20070316_201349_000000462056_00257_26363_1161.N1 | 16-MAR-2007 20:13:49 | Bright | 46.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 92 | 26363 | No |
| 231 | GOM_NL__2PRFIN20070316_202308_000000392056_00257_26363_1162.N1 | 16-MAR-2007 20:23:08 | Bright | 38.500 | 144 | 18Del Cyg | 2.8600 | 11000. | 77 | 26363 | No |
| 232 | GOM_NL__2PRFIN20070316_202435_000000362056_00257_26363_1163.N1 | 16-MAR-2007 20:24:35 | Bright | 35.500 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 71 | 26363 | No |
| 233 | GOM_NL__2PRFIN20070316_203440_000000502056_00257_26363_1164.N1 | 16-MAR-2007 20:34:40 | Tw_i_and_stray | 50.000 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 100 | 26363 | No |
| 234 | GOM_NL__2PRFIN20070316_204452_000000462056_00257_26363_1165.N1 | 16-MAR-2007 20:44:52 | Dark | 46.000 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 92 | 26363 | No |
| 235 | GOM_NL__2PRFIN20070316_204654_000000462056_00257_26363_1166.N1 | 16-MAR-2007 20:46:54 | Dark | 46.000 | 57 | 34Sig Sgr | 2.0660 | 26000. | 92 | 26363 | No |
| 236 | GOM_NL__2PRFIN20070316_204818_000000512056_00257_26363_1167.N1 | 16-MAR-2007 20:48:18 | Dark | 51.000 | 137 | 22Lam Sgr | 2.8240 | 4400.0 | 102 | 26363 | No |
| 237 | GOM_NL__2PRFIN20070316_205023_000000462056_00257_26363_1168.N1 | 16-MAR-2007 20:50:23 | Dark | 46.000 | 38 | 20Eps Sgr | 1.8360 | 11000. | 92 | 26363 | No |
| 238 | GOM_NL__2PRFIN20070316_223658_000000412056_00259_26365_1198.N1 | 16-MAR-2007 22:36:58 | Dark | 40.500 | 141 | Bet Ara | 2.8400 | 4600.0 | 81 | 26365 | No |
| 239 | GOM_NL__2PRFIN20070316_224321_000000522056_00259_26365_1199.N1 | 16-MAR-2007 22:43:21 | Dark | 51.500 | 131 | Gam Lup | 2.8000 | 26000. | 103 | 26365 | No |
| 240 | GOM_NL__2PRFIN20070316_224522_000000462056_00259_26365_1200.N1 | 16-MAR-2007 22:45:22 | Dark | 46.000 | 78 | Alp Lup | 2.3040 | 28000. | 92 | 26365 | No |
| 241 | GOM_NL__2PRFIN20070316_224649_000000542056_00259_26365_1201.N1 | 16-MAR-2007 22:46:49 | Dark | 53.500 | 81 | Eta Cen | 2.3560 | 28000. | 107 | 26365 | No |
| 242 | GOM_NL__2PRFIN20070316_224956_000000462056_00259_26365_1202.N1 | 16-MAR-2007 22:49:56 | Straylight | 46.000 | 54 | 5The Cen | 2.0550 | 4500.0 | 92 | 26365 | No |
| 243 | GOM_NL__2PRFIN20070316_225146_000000502056_00259_26365_1203.N1 | 16-MAR-2007 22:51:46 | Straylight | 49.500 | 123 | 1ot Cen | 2.7500 | 10200. | 99 | 26365 | No |
| 244 | GOM_NL__2PRFIN20070316_225732_000000532056_00259_26365_1204.N1 | 16-MAR-2007 22:57:32 | Straylight | 53.000 | 106 | 9Bet Crv | 2.6480 | 5600.0 | 106 | 26365 | No |
| 245 | GOM_NL__2PRFIN20070316_225951_000000512056_00259_26365_1205.N1 | 16-MAR-2007 22:59:51 | Tw_i_and_stray | 51.000 | 100 | 4Gam Crv | 2.5800 | 13100. | 102 | 26365 | No |
| 246 | GOM_NL__2PRFIN20070316_231059_000000462056_00259_26365_1206.N1 | 16-MAR-2007 23:10:59 | Bright | 46.000 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 92 | 26365 | No |
| 247 | GOM_NL__2PRFIN20070316_231912_000000402056_00259_26365_1207.N1 | 16-MAR-2007 23:19:12 | Bright | 40.000 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 80 | 26365 | No |
| 248 | GOM_NL__2PRFIN20070316_232223_000000432056_00259_26365_1208.N1 | 16-MAR-2007 23:22:23 | Bright | 42.500 | 82 | 48Bet UMa | 2.3650 | 10600. | 85 | 26365 | No |
| 249 | GOM_NL__2PRFIN20070316_232353_000000382056_00259_26365_1209.N1 | 16-MAR-2007 23:23:53 | Bright | 37.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 75 | 26365 | No |
| 250 | GOM_NL__2PRFIN20070316_232526_000000452056_00259_26365_1210.N1 | 16-MAR-2007 23:25:26 | Bright | 45.000 | 32 | 77Eps UMa | 1.7630 | 11000. | 90 | 26365 | No |
| 251 | GOM_NL__2PRFIN20070316_233057_000000412056_00259_26365_1211.N1 | 16-MAR-2007 23:30:57 | Bright | 41.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 82 | 26365 | No |
| 252 | GOM_NL__2PRFIN20070316_233500_000000452056_00259_26365_1212.N1 | 16-MAR-2007 23:35:00 | Bright | 45.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 90 | 26365 | No |
| 253 | GOM_NL__2PRFIN20070316_234420_000000472056_00259_26365_1213.N1 | 16-MAR-2007 23:44:20 | Bright | 46.500 | 144 | 18Del Cyg | 2.8600 | 11000. | 93 | 26365 | No |
| 254 | GOM_NL__2PRFIN20070316_234547_000000382056_00259_26365_1214.N1 | 16-MAR-2007 23:45:47 | Bright | 37.500 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 75 | 26365 | No |
| 255 | GOM_NL__2PRFIN20070316_235552_000000512056_00259_26365_1215.N1 | 16-MAR-2007 23:55:52 | Tw_i_and_stray | 50.500 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 101 | 26365 | No |

3. Quality information per product

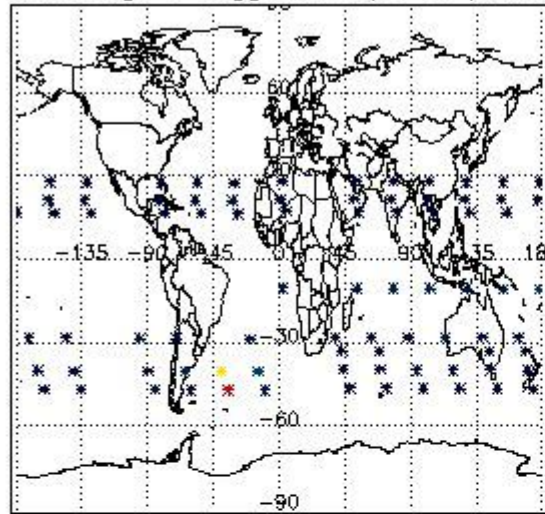
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

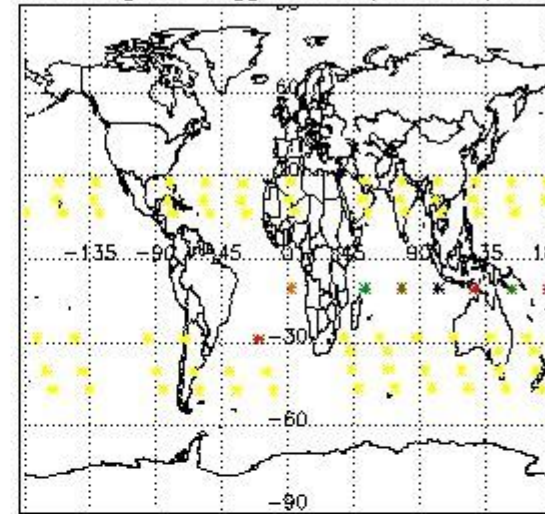


3.2 Plot quality information per product (world map)

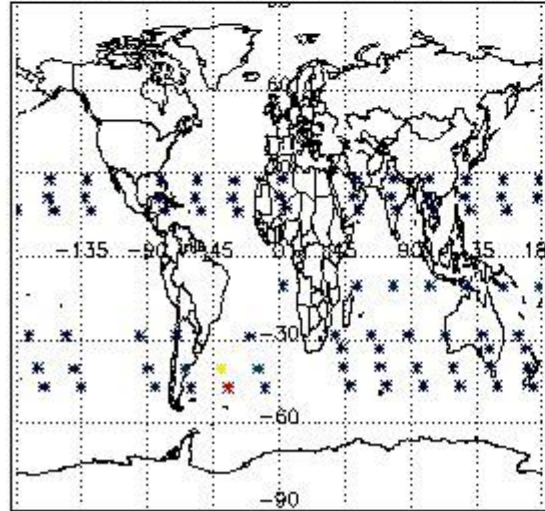
Percentage of flagged data per O3 profile



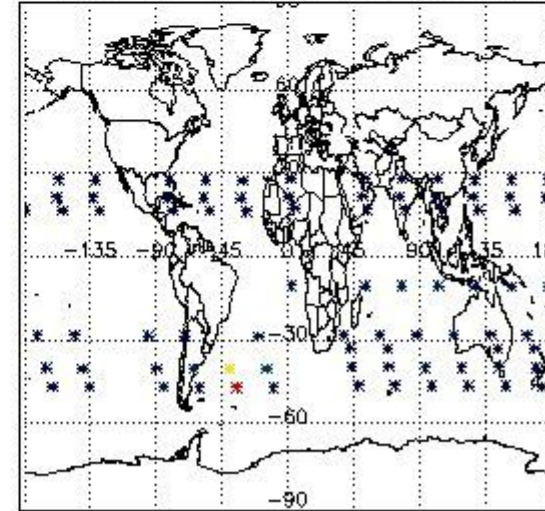
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

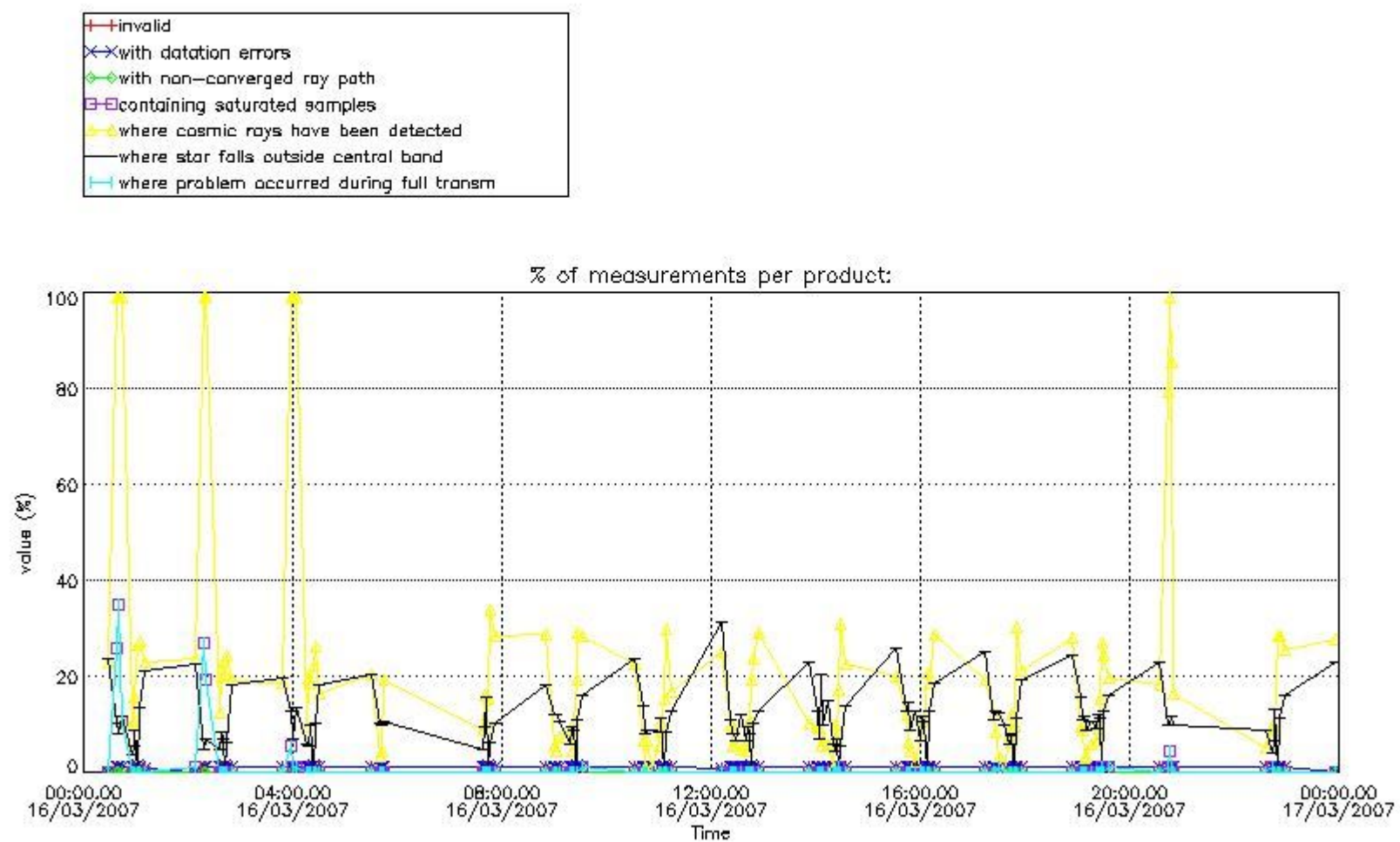


4. Level 1 quality information per product

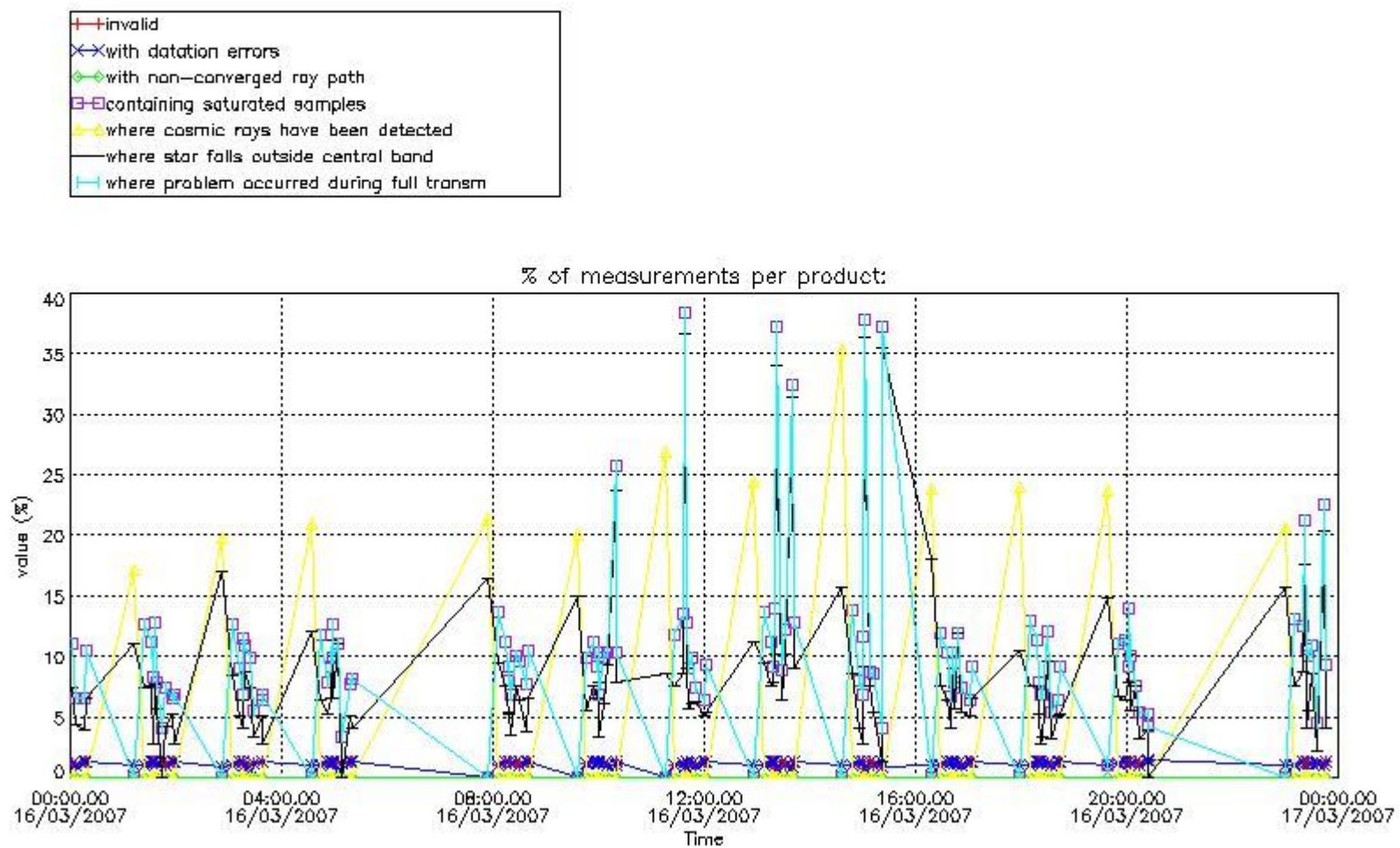
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



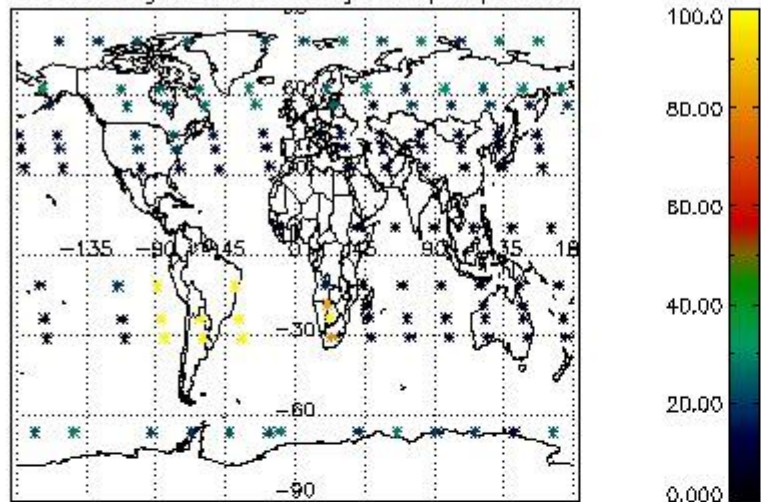
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



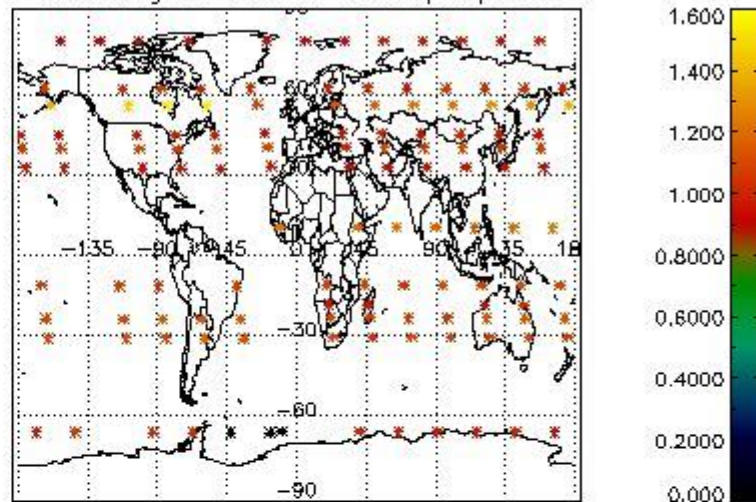
4.2 Plot quality information per product coming from level 1b processing (world map)

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

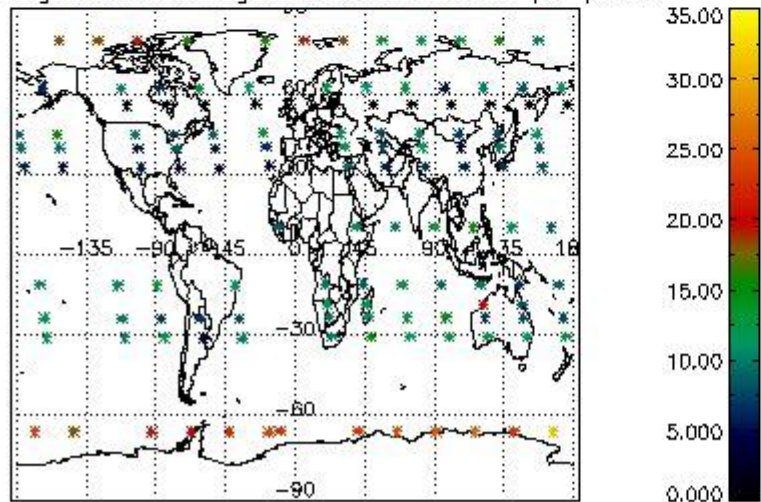
Percentage of cosmic ray hits per profile



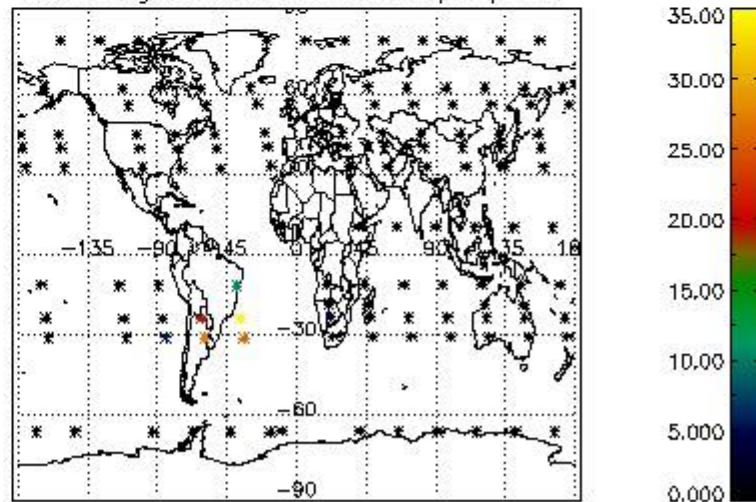
Percentage of datation errors per profile



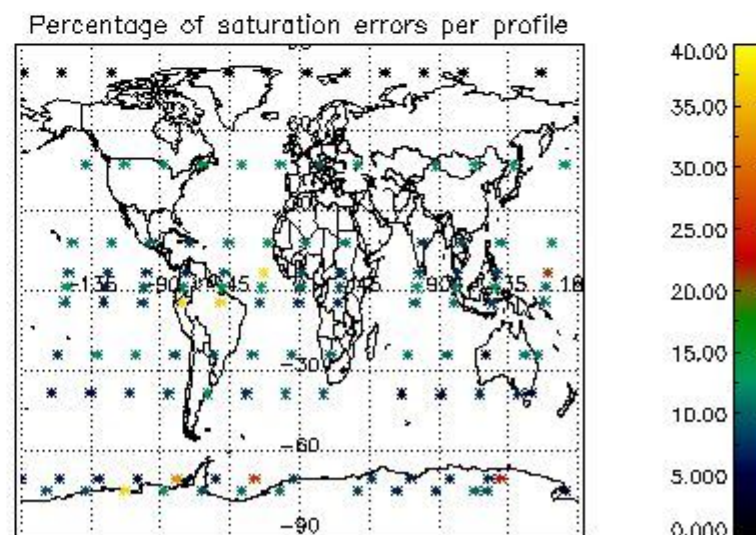
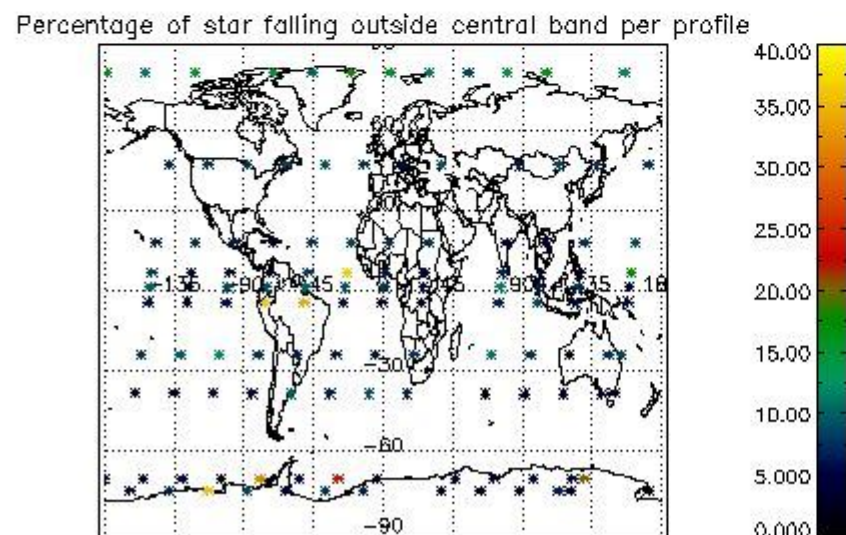
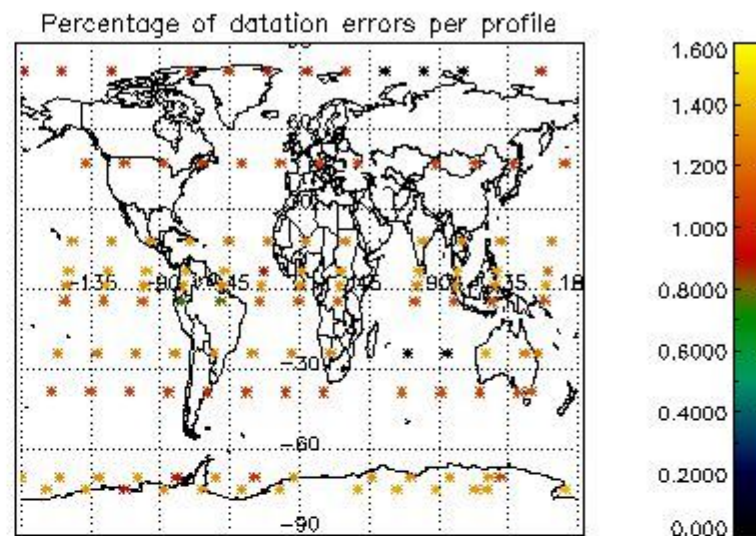
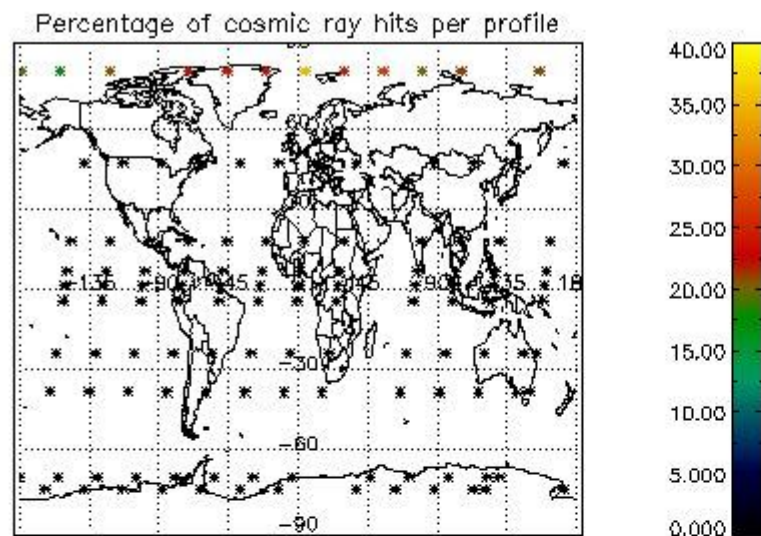
Percentage of star falling outside central band per profile



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

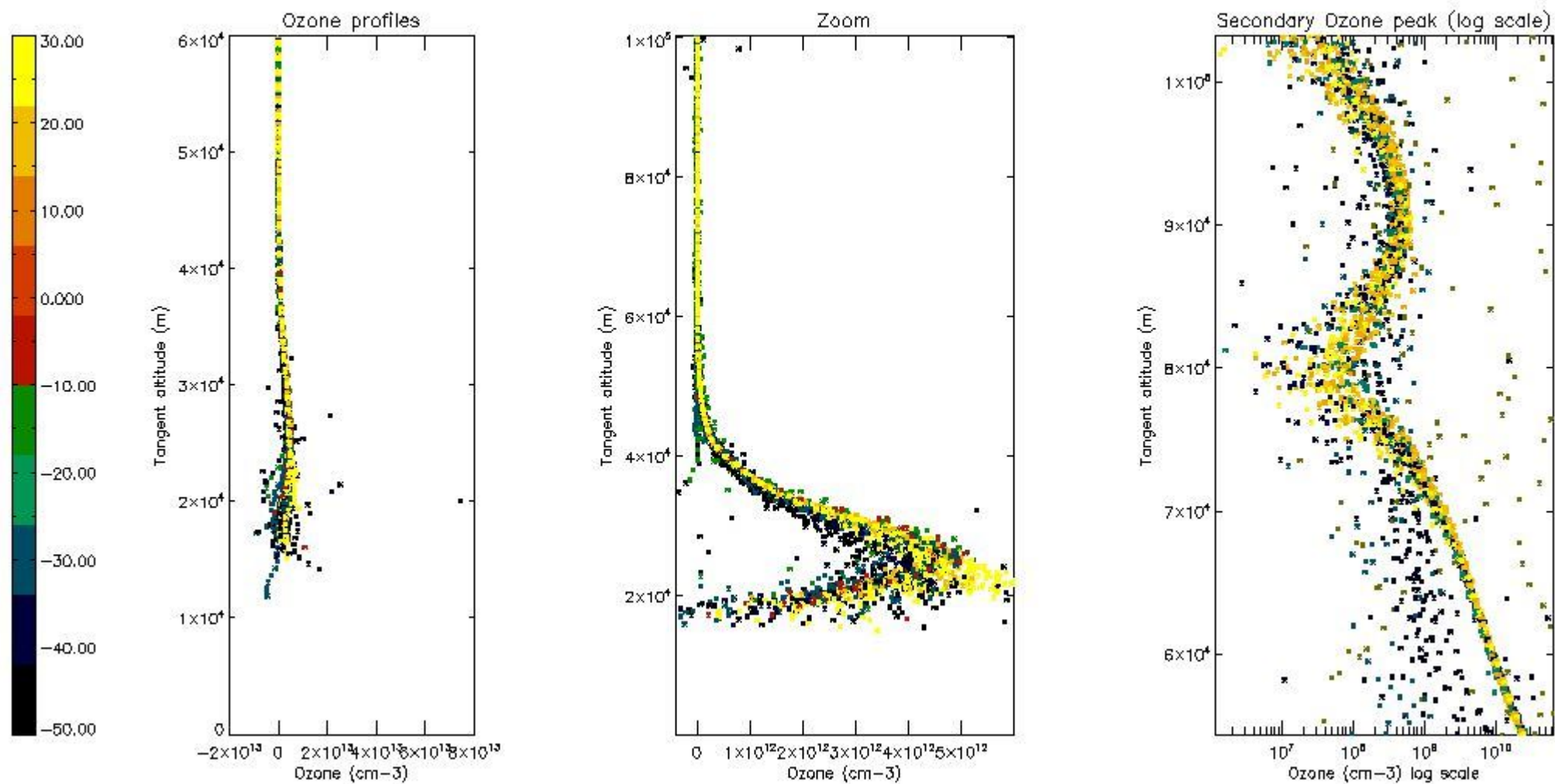
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

| Criteria | % of total production |
|----------|-----------------------|
| All STD | 34 |
| STD < 20 | 20 |

| | |
|----------|----|
| STD < 10 | 16 |
| STD < 5 | 12 |

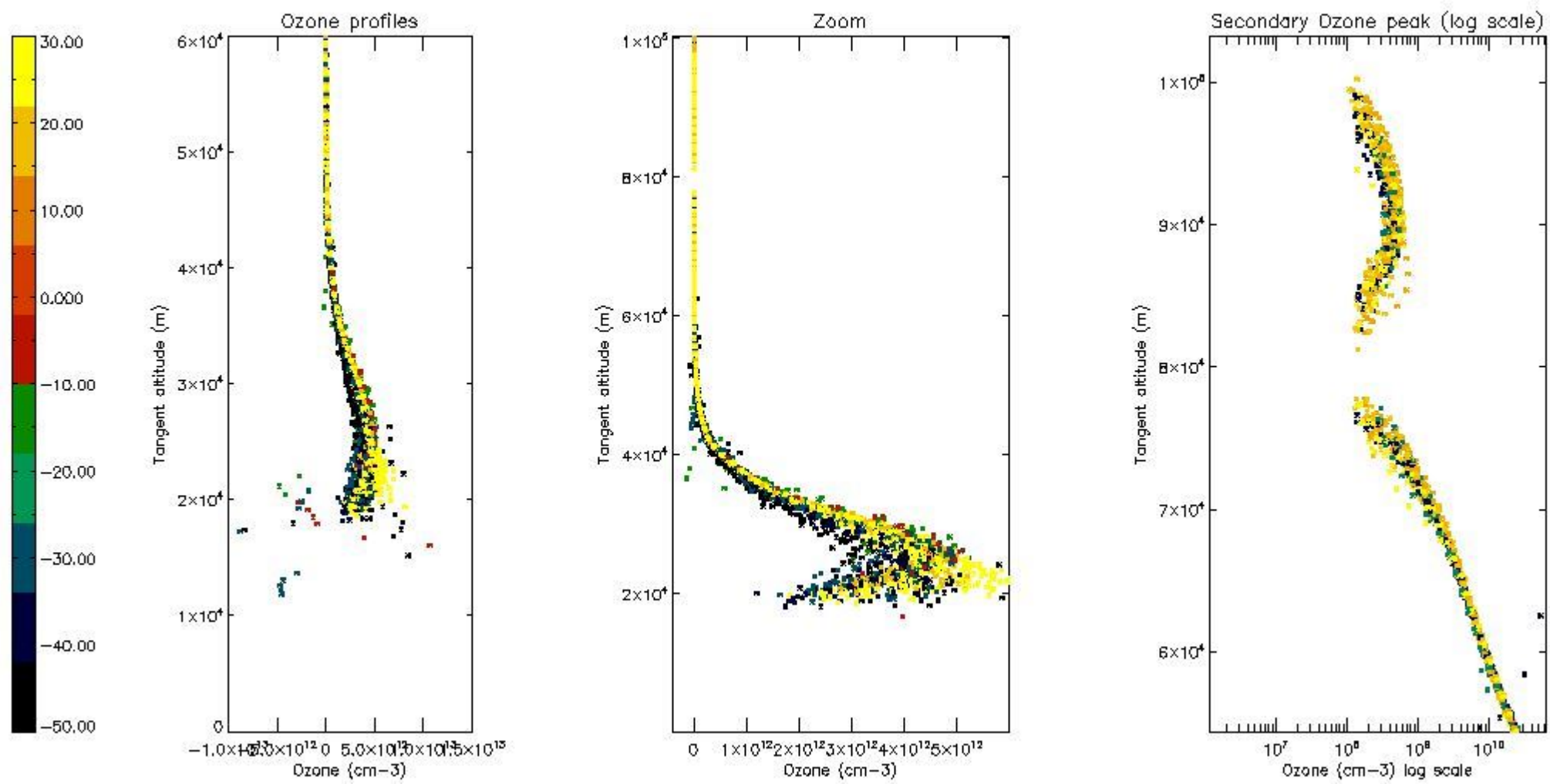
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



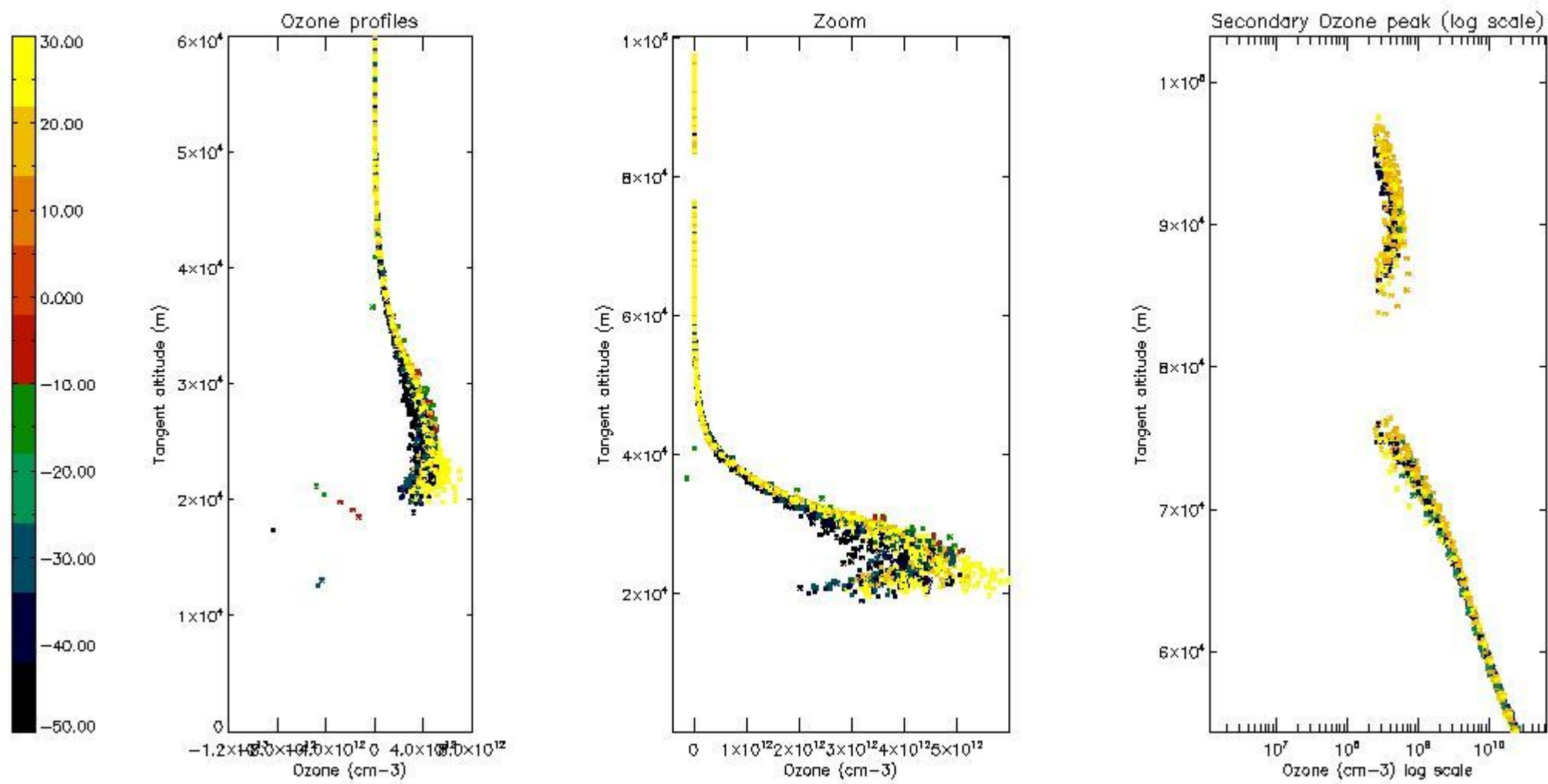
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



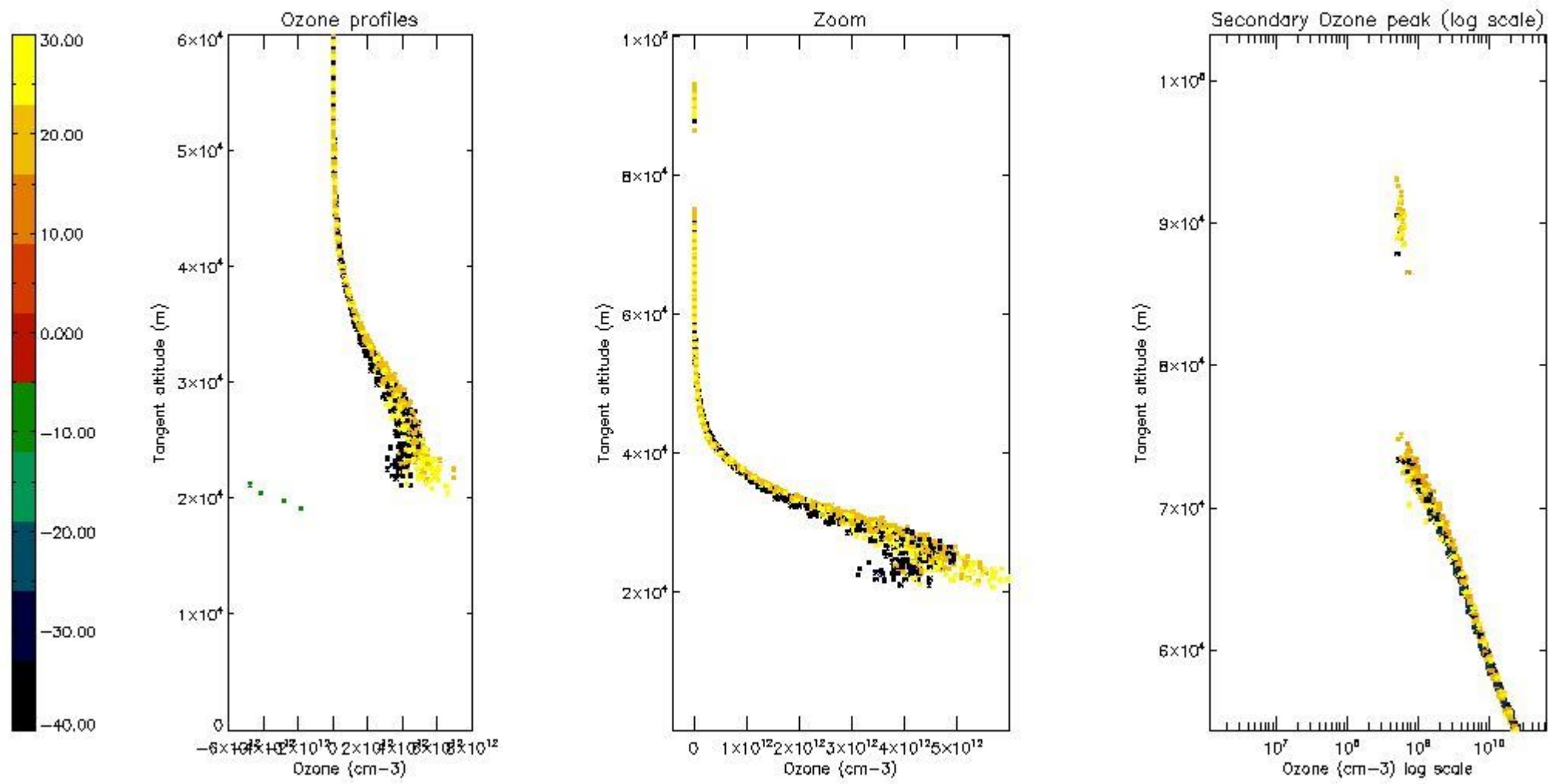
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



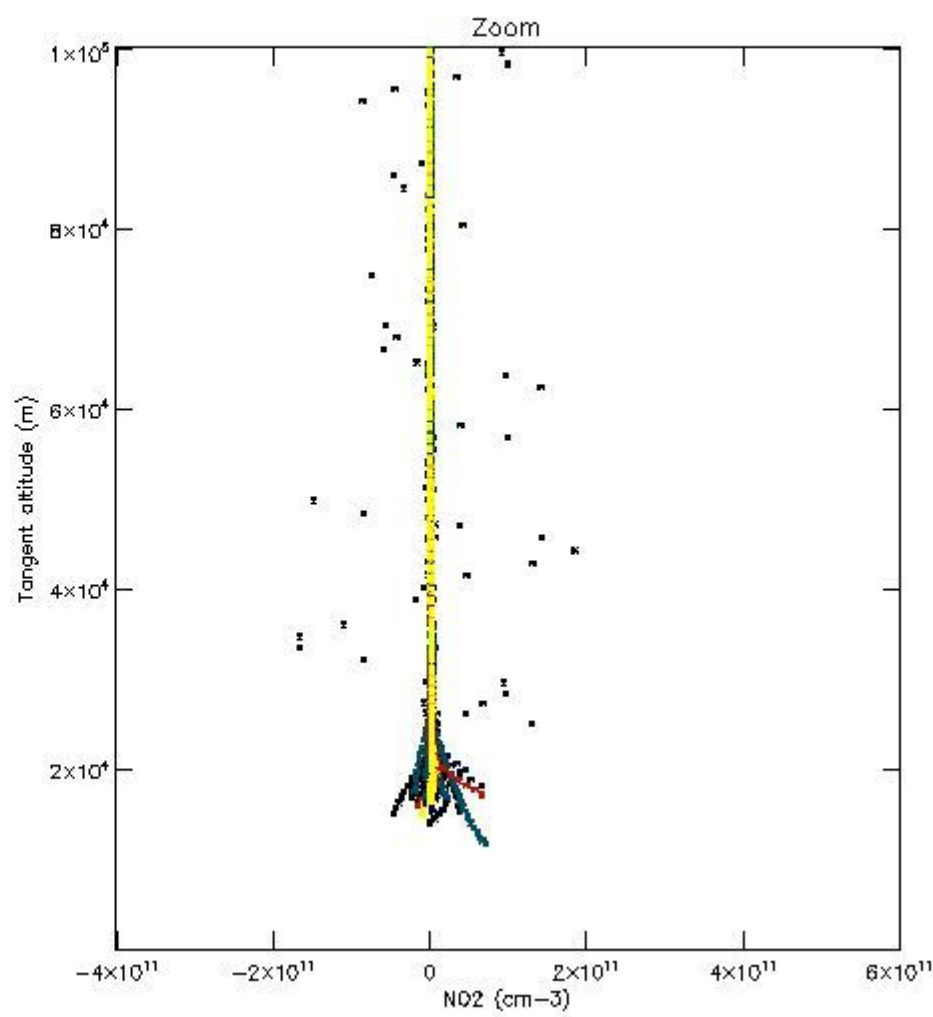
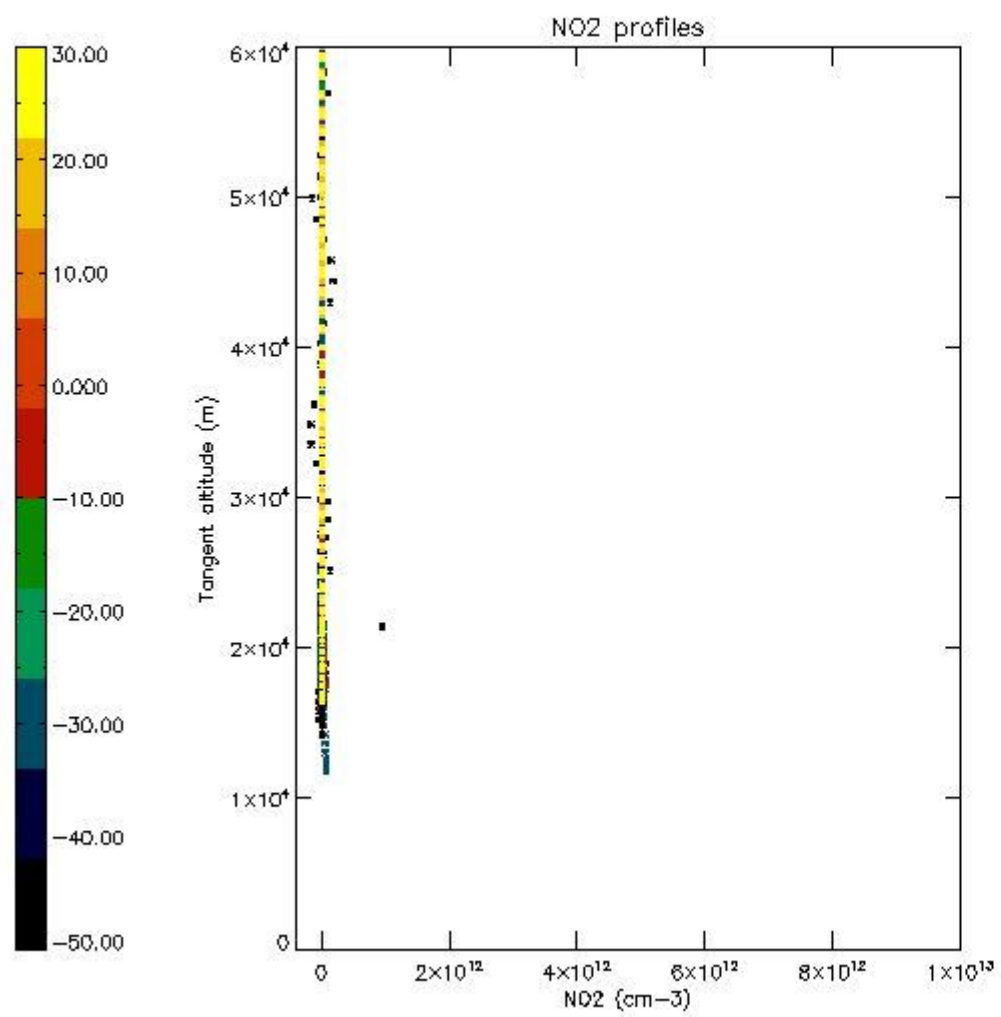
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



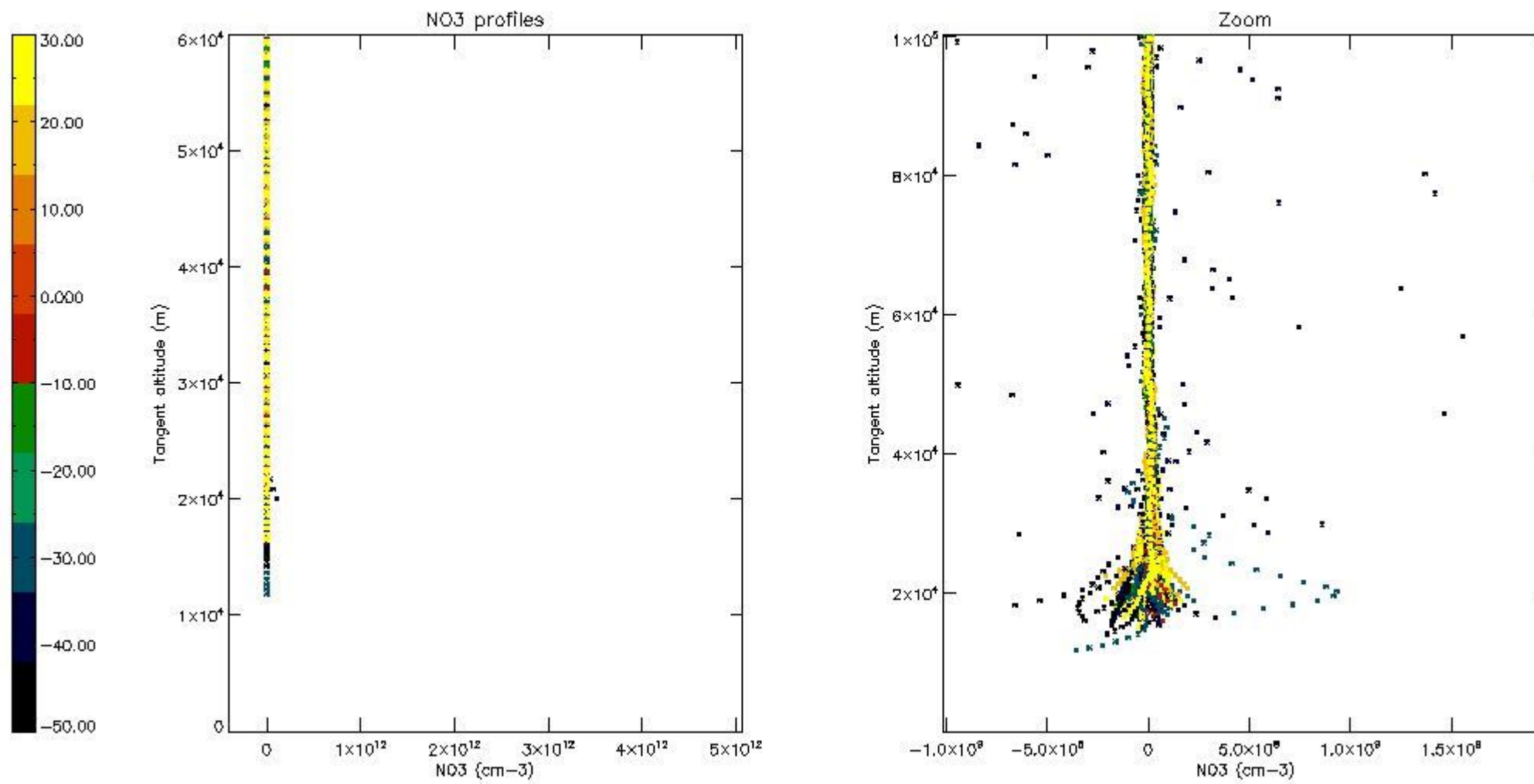
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

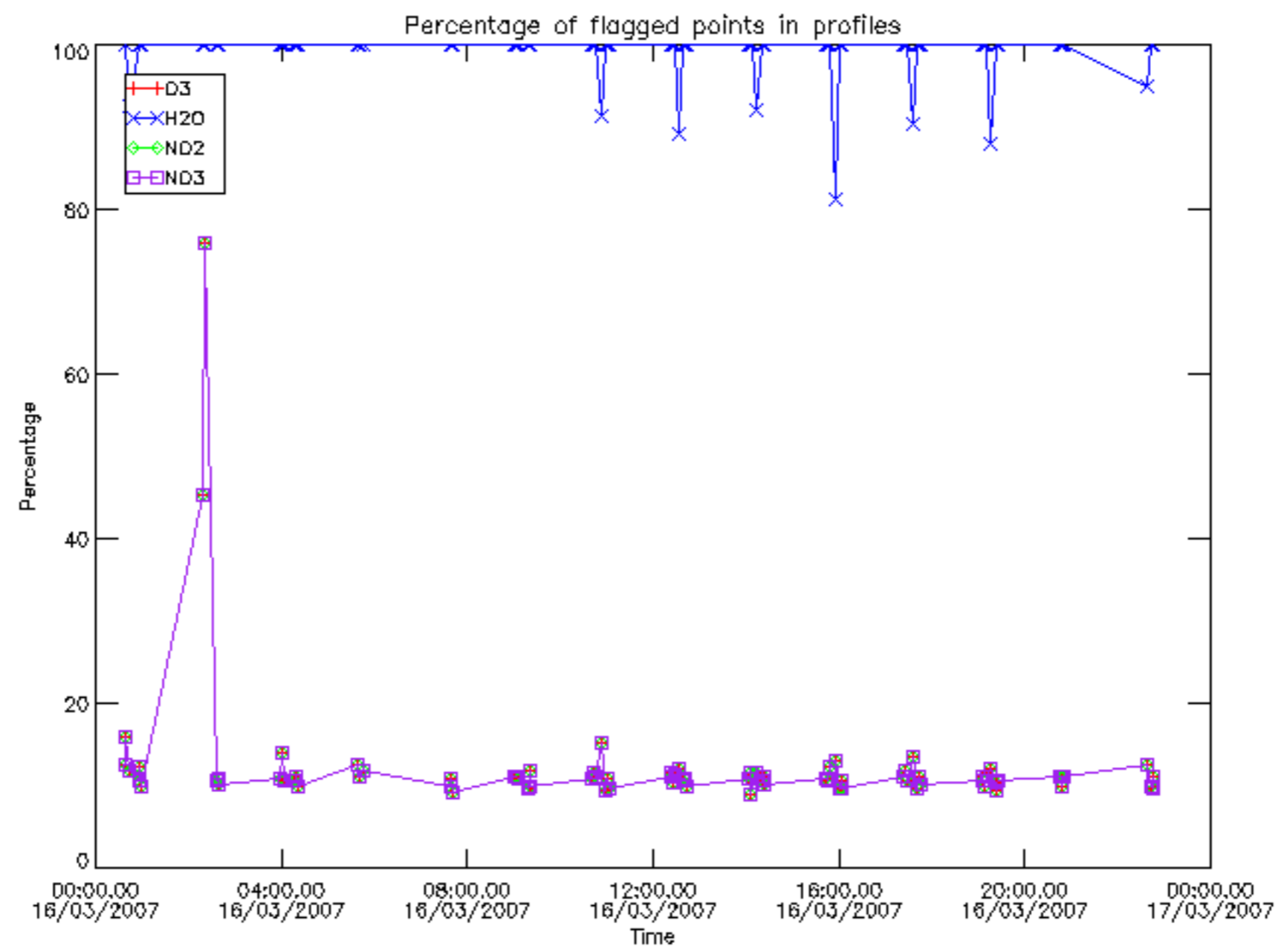
The colorbar represents the latitude.



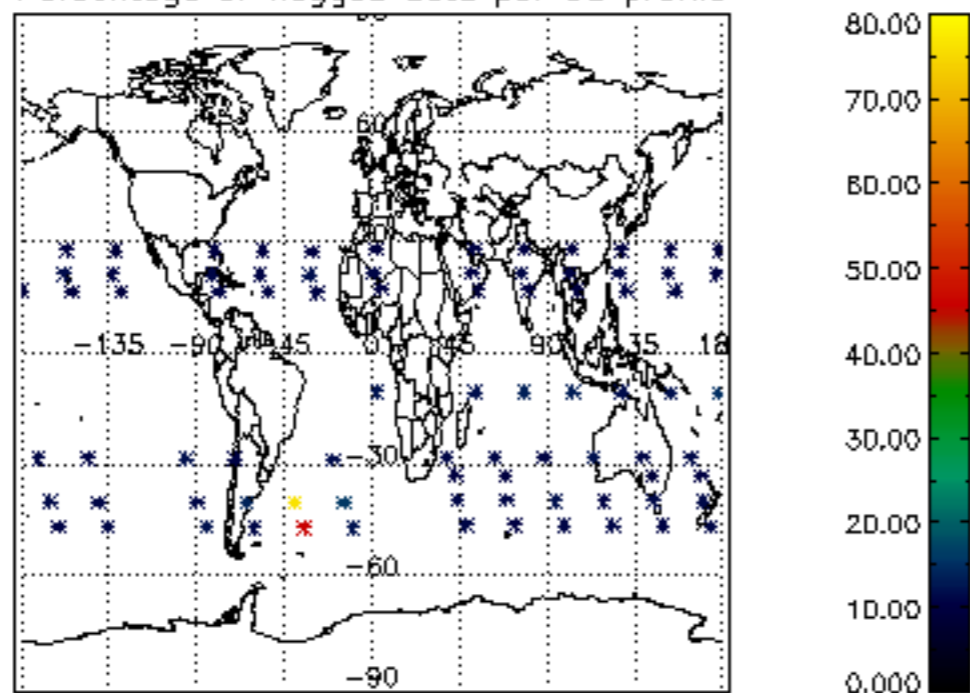
6. Auxiliary Data Files used for the production reported in section 2

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

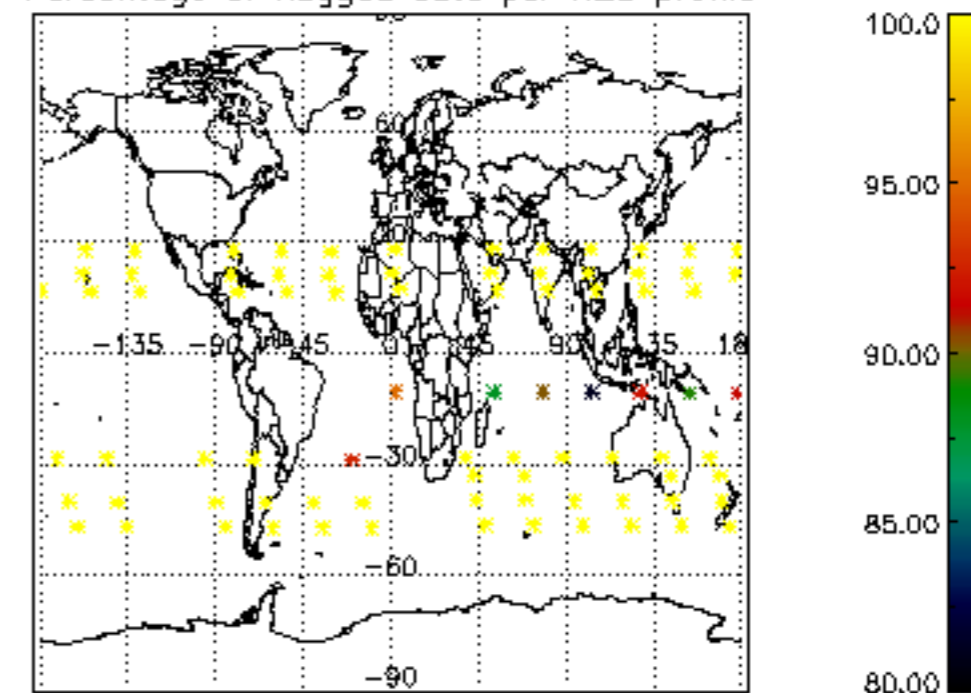
| Type | Auxiliary Filename | Used since product | Used since product date |
|---------------------------|---|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000 | 1 | 16-MAR-2007 00:02:39 |
| LEVEL-2_PROC_CONFIG | GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000 | 1 | 16-MAR-2007 00:02:39 |
| CROSS_SECTIONS_FILE | GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000 | 1 | 16-MAR-2007 00:02:39 |



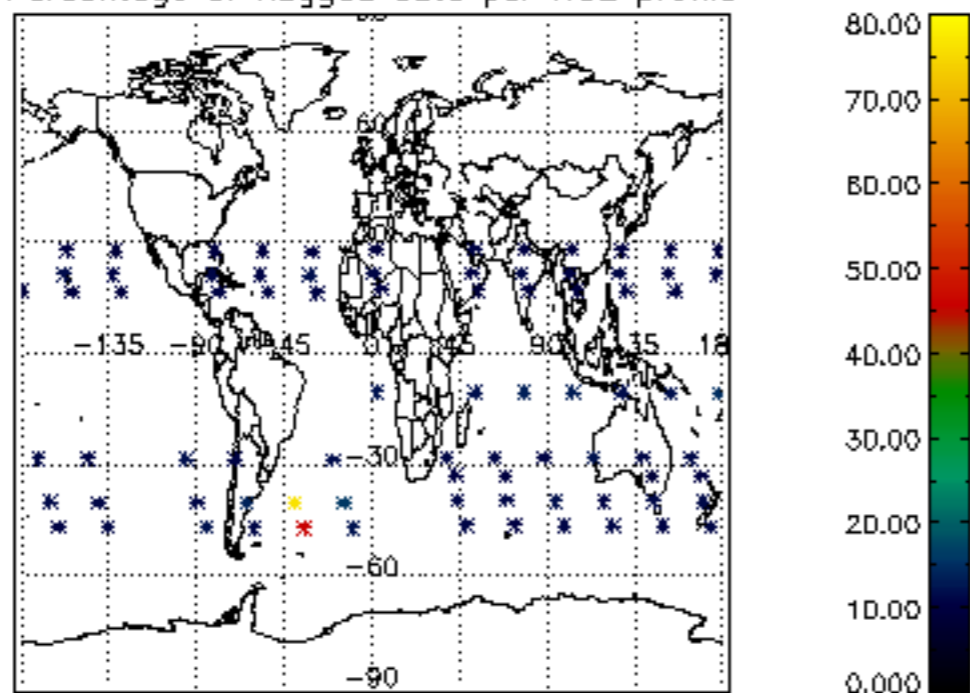
Percentage of flagged data per D3 profile



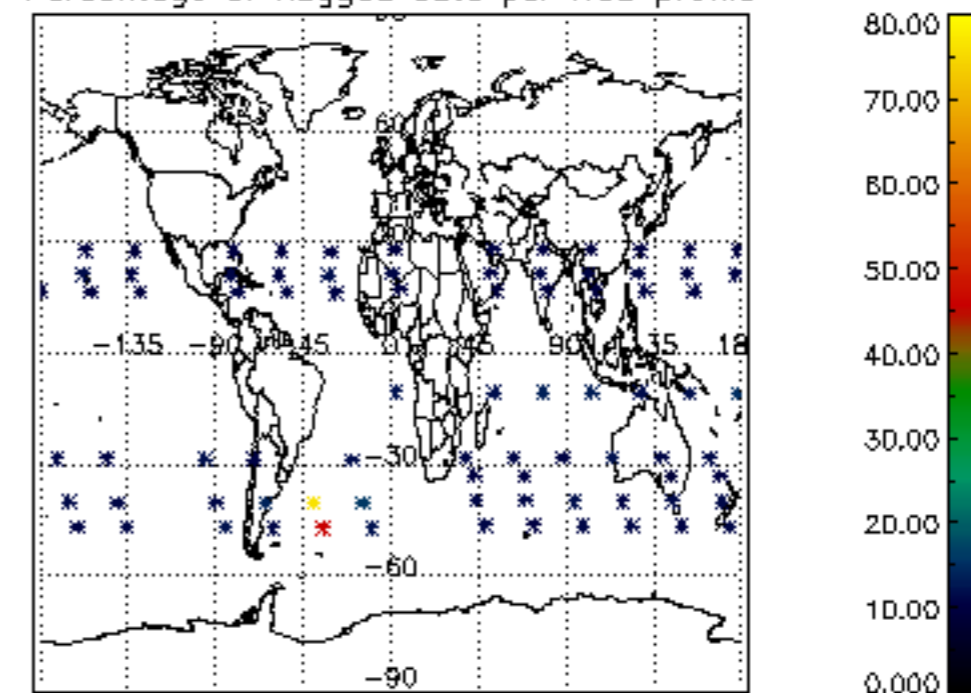
Percentage of flagged data per H2O profile

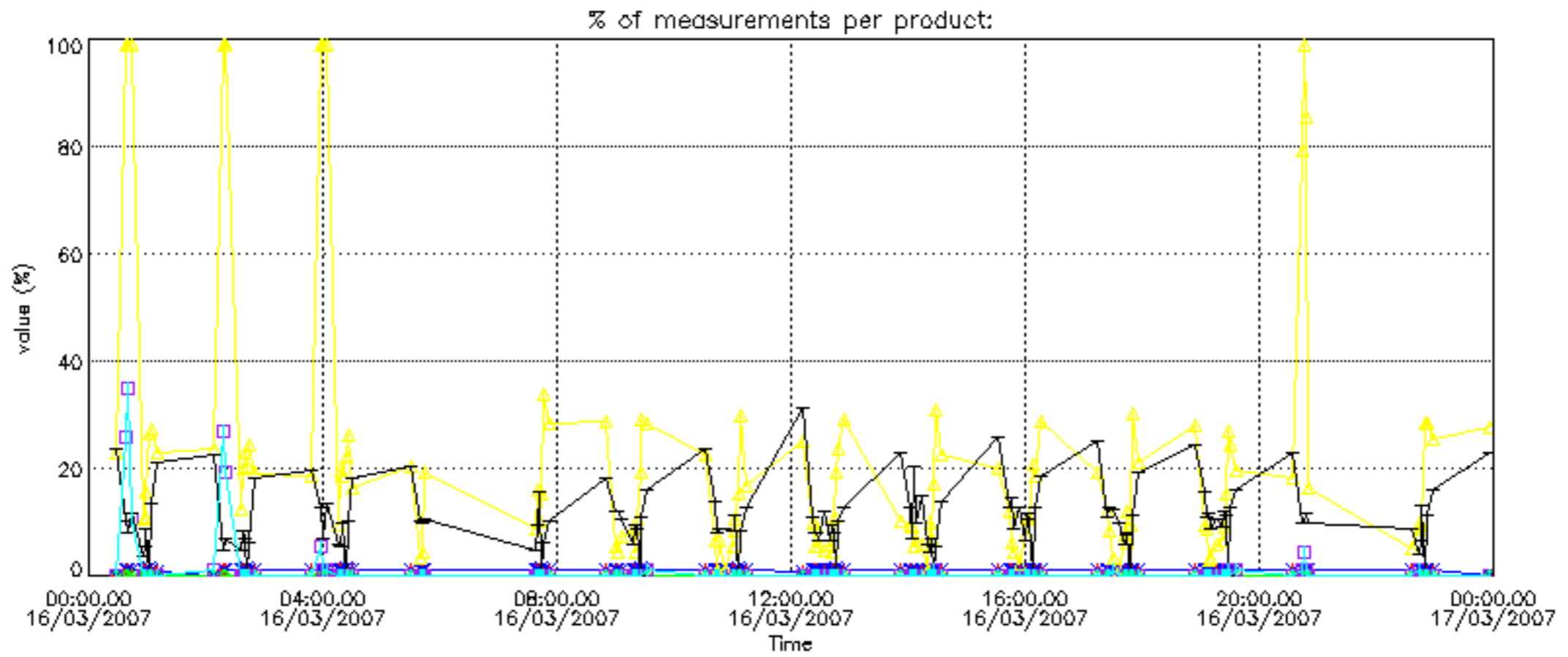


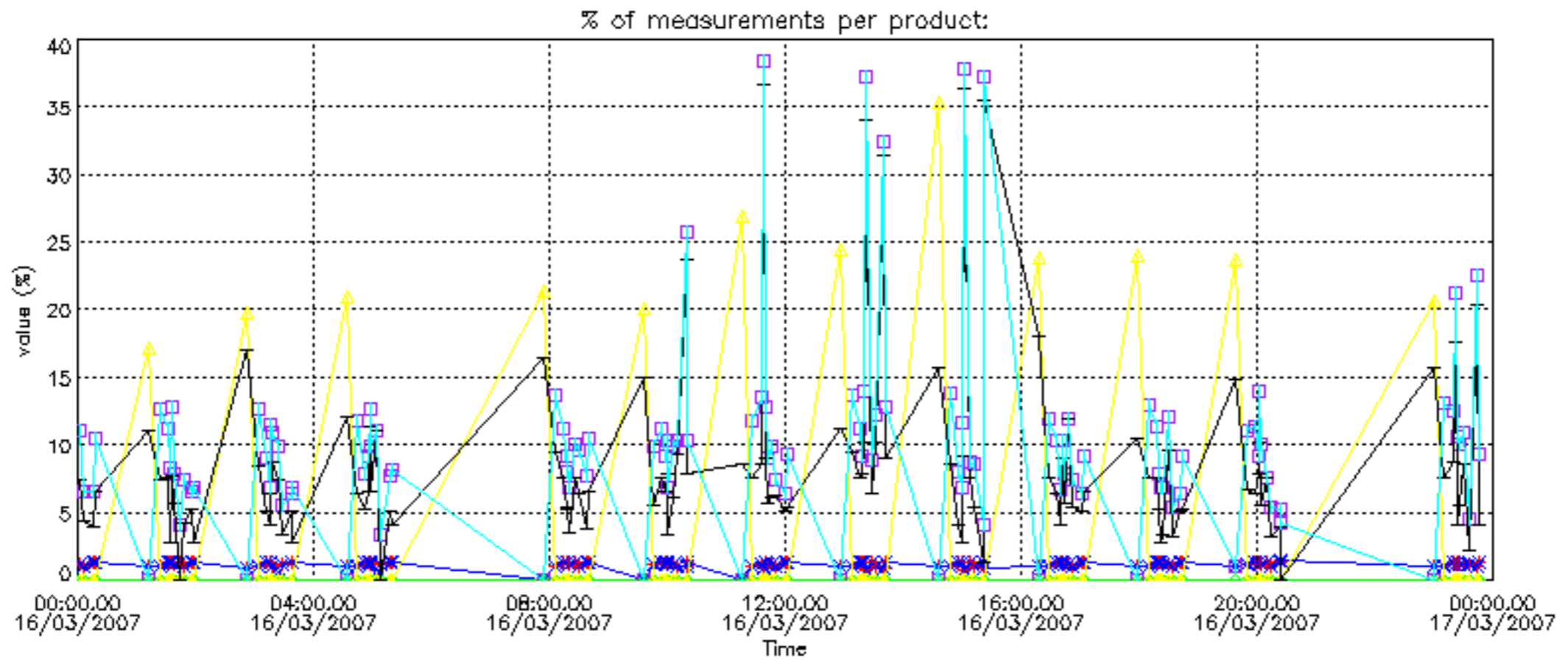
Percentage of flagged data per NO2 profile



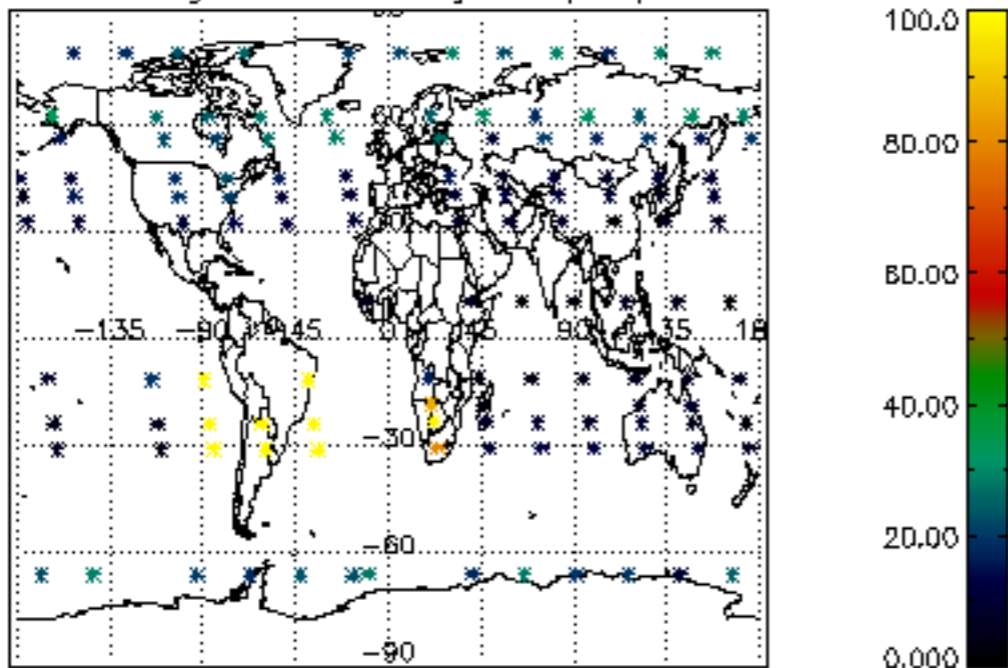
Percentage of flagged data per NO3 profile



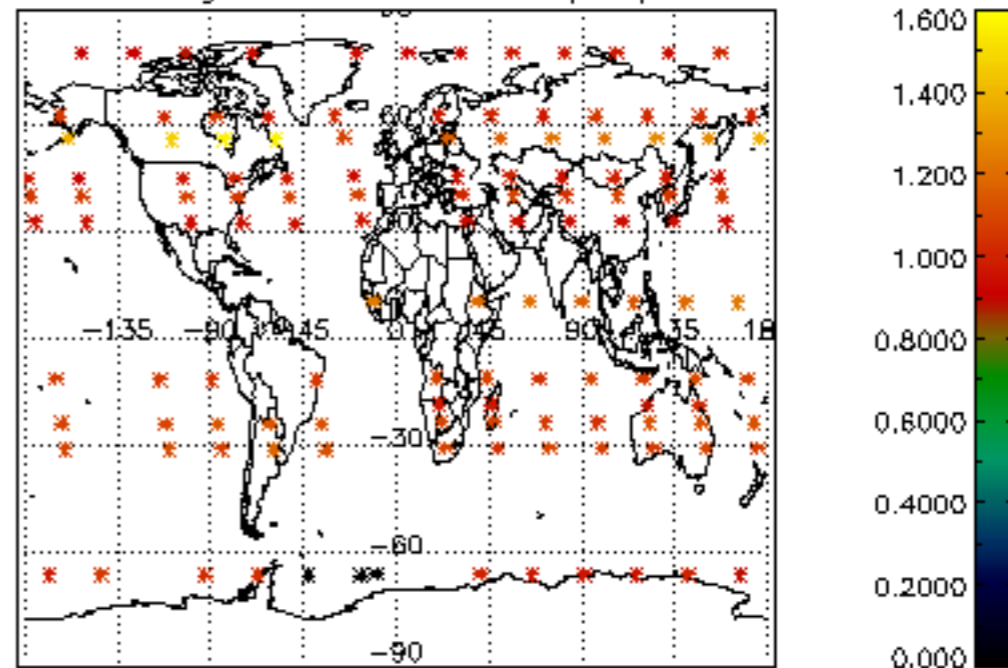




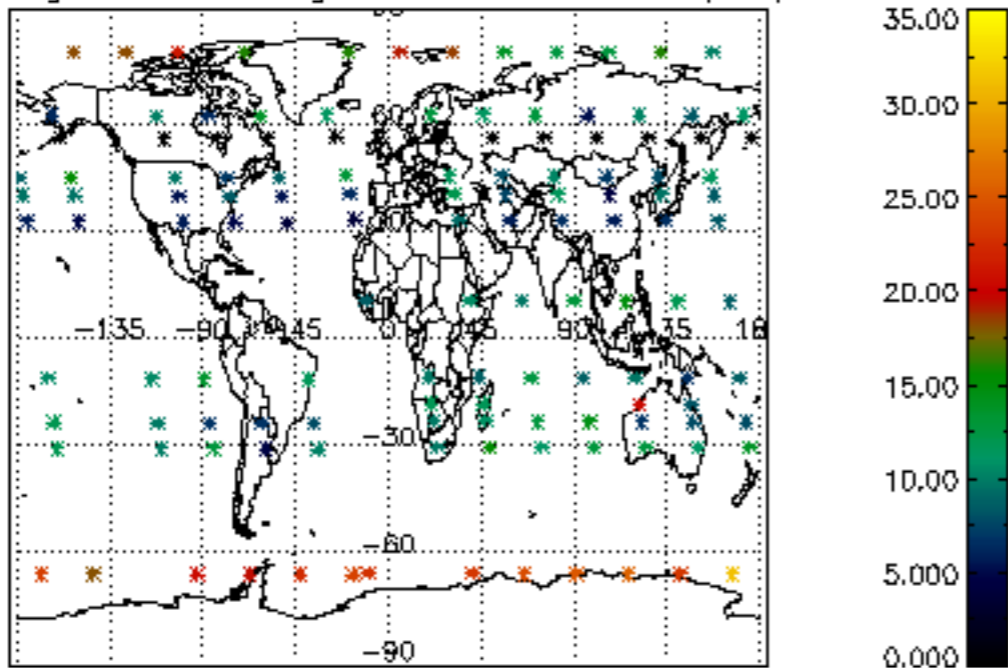
Percentage of cosmic ray hits per profile



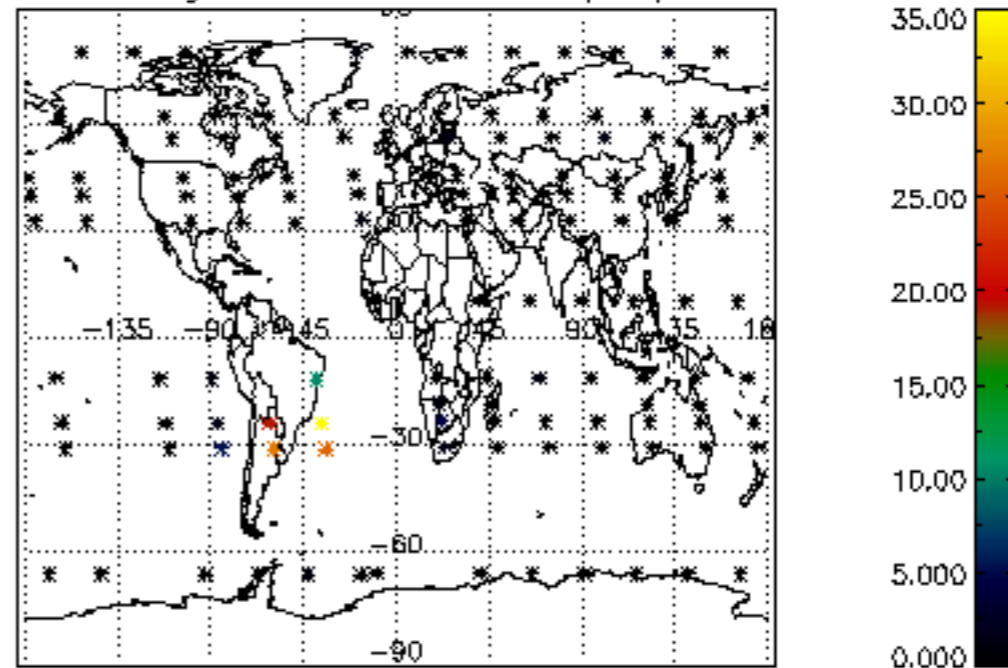
Percentage of datation errors per profile



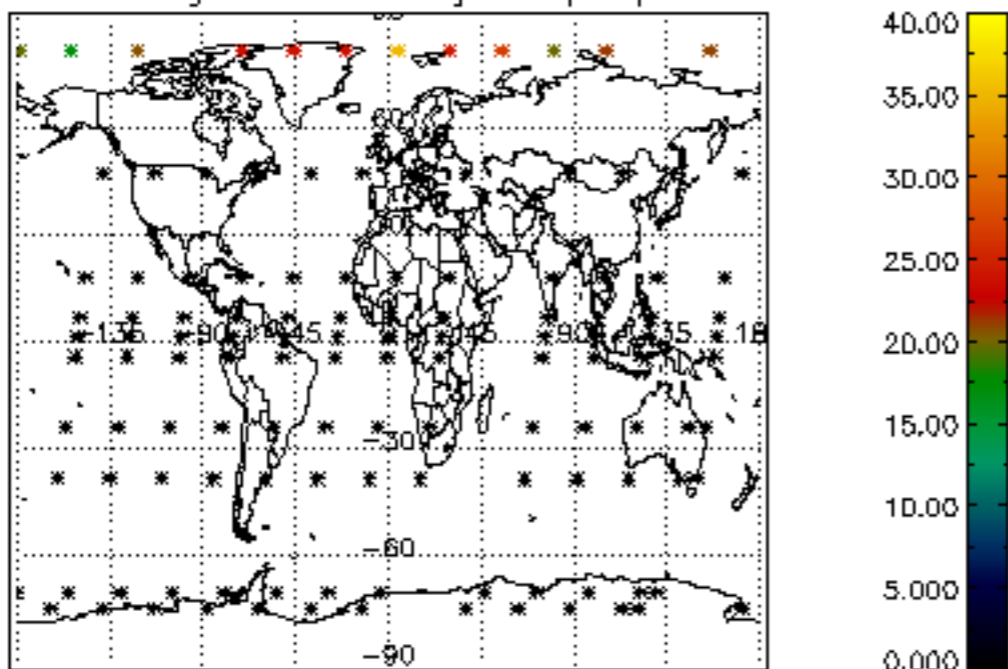
Percentage of star falling outside central band per profile



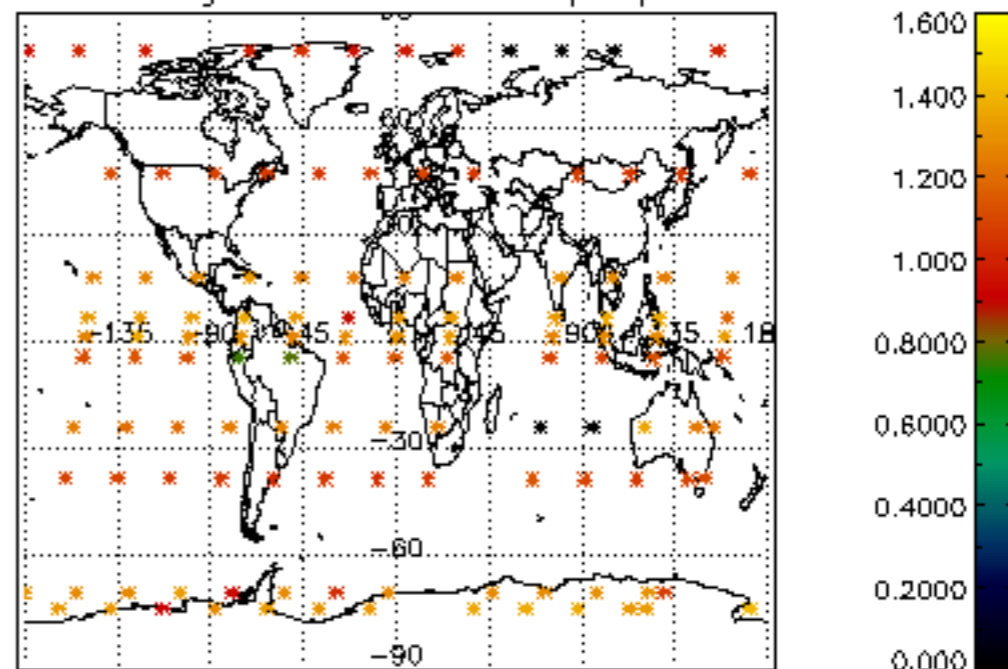
Percentage of saturation errors per profile



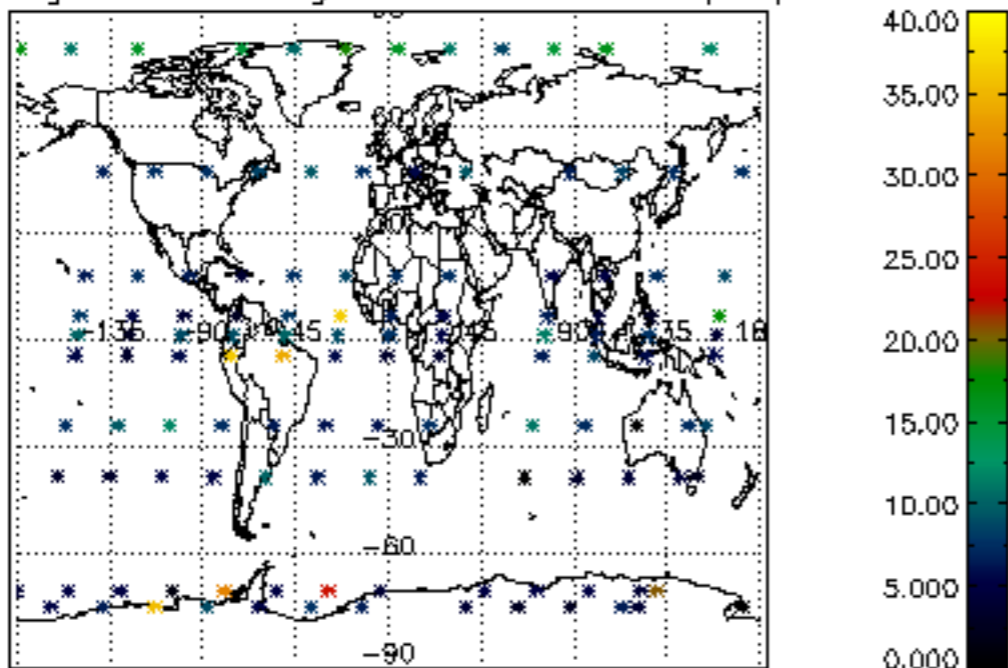
Percentage of cosmic ray hits per profile



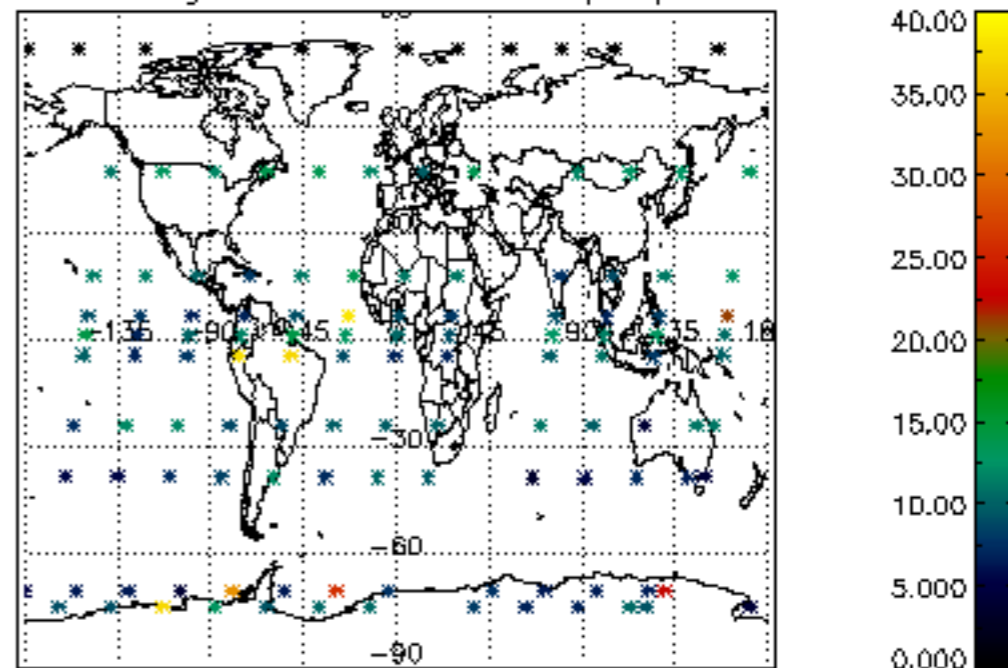
Percentage of datation errors per profile

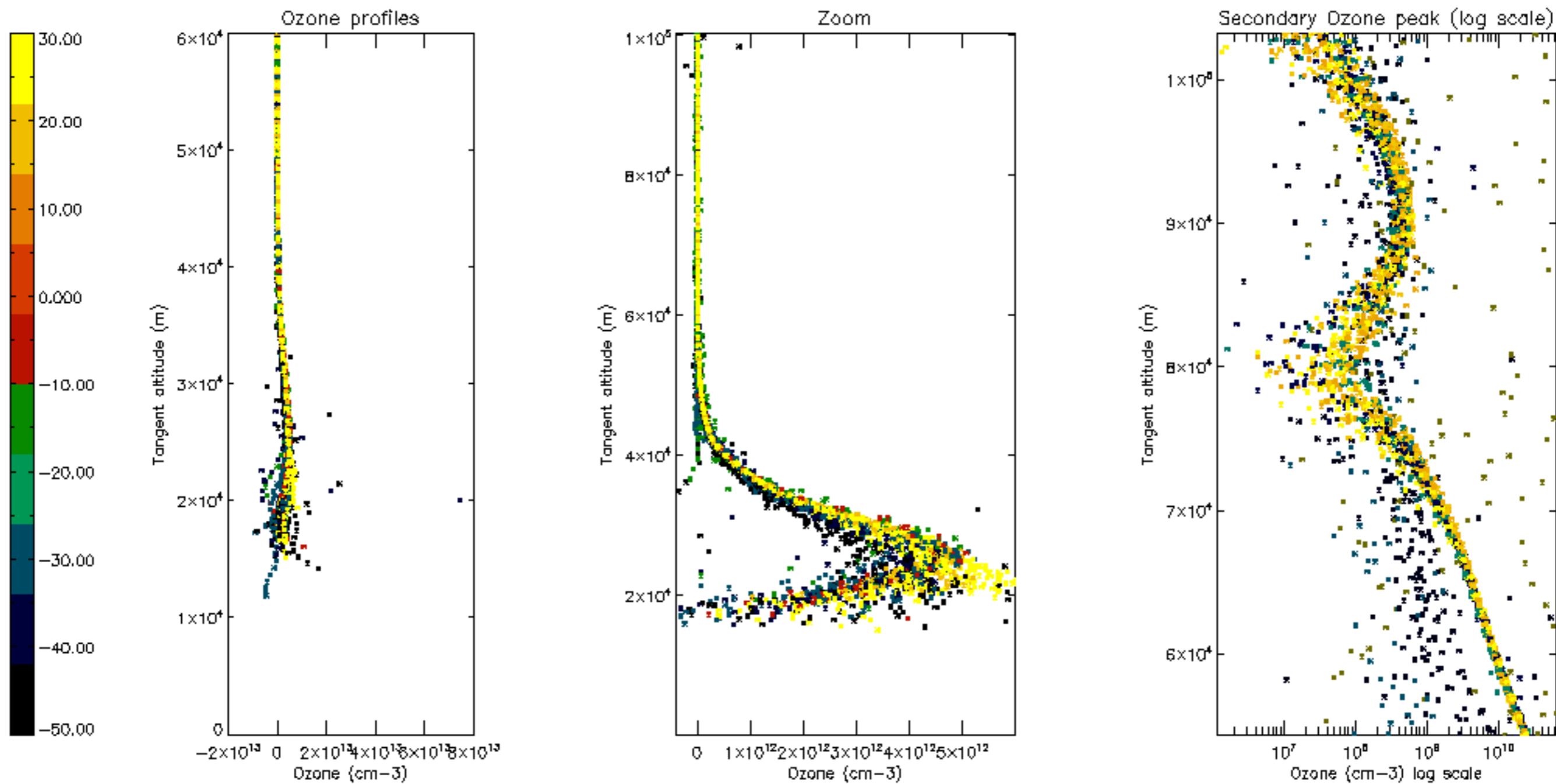


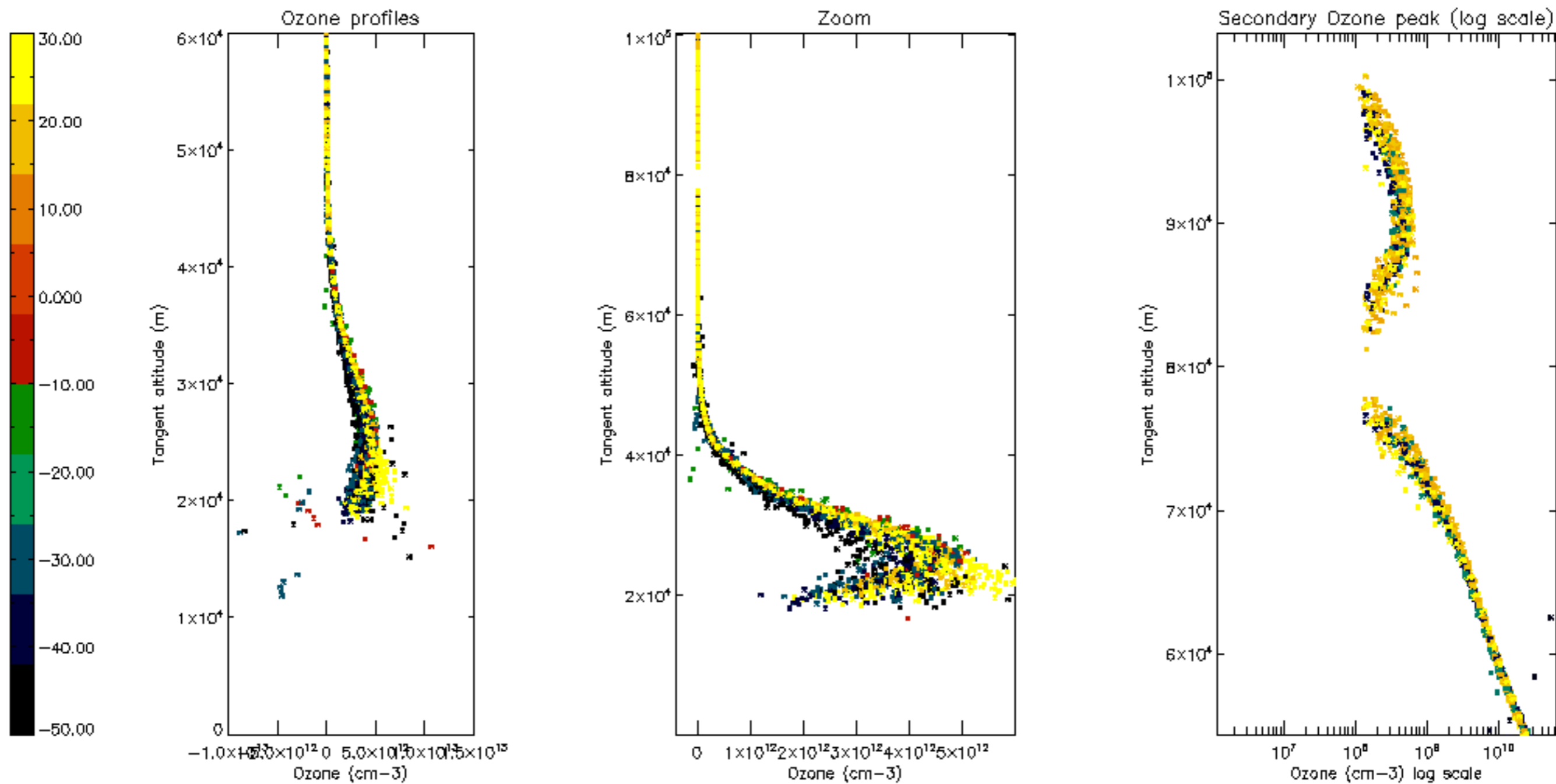
Percentage of star falling outside central band per profile

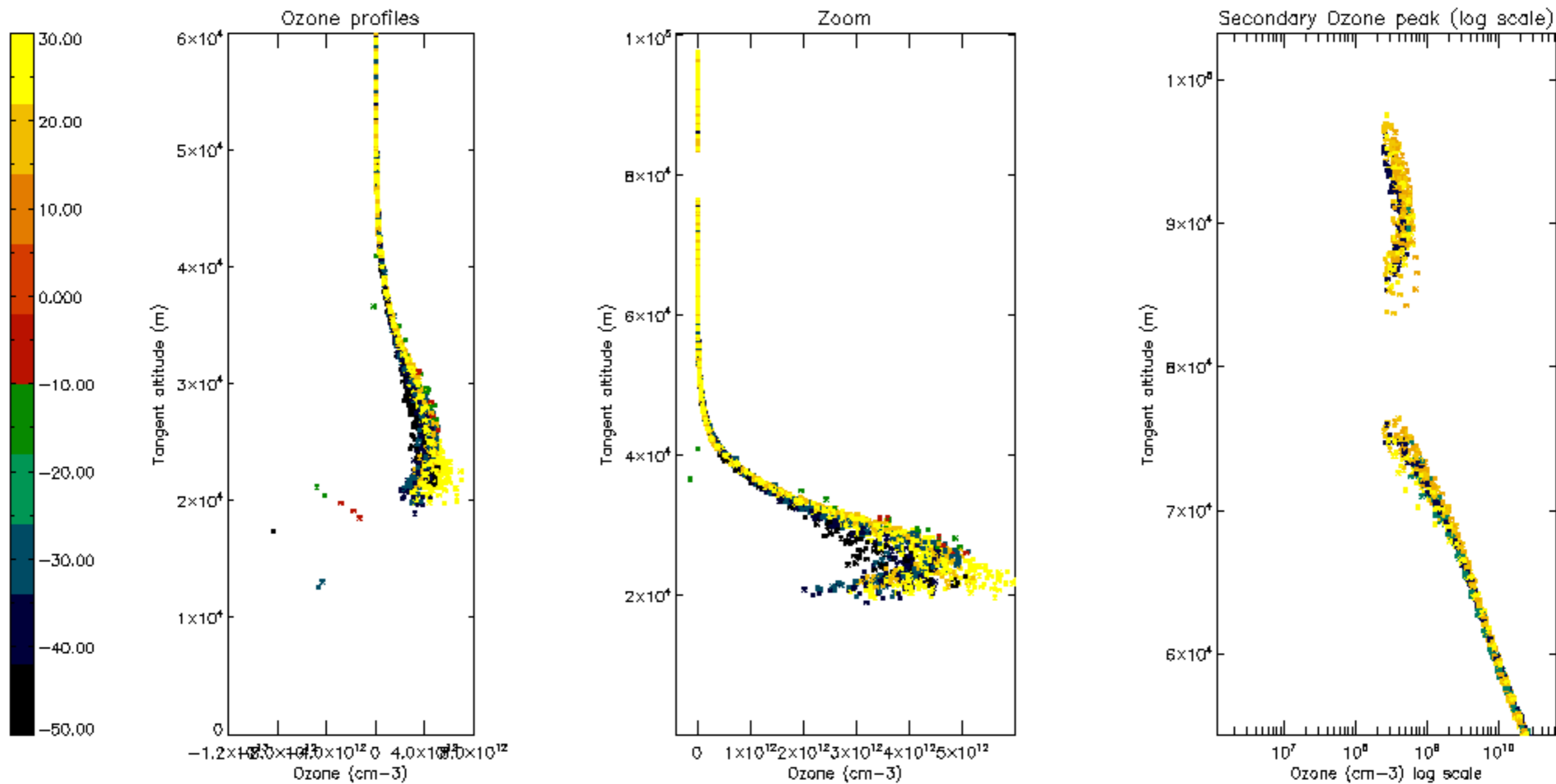


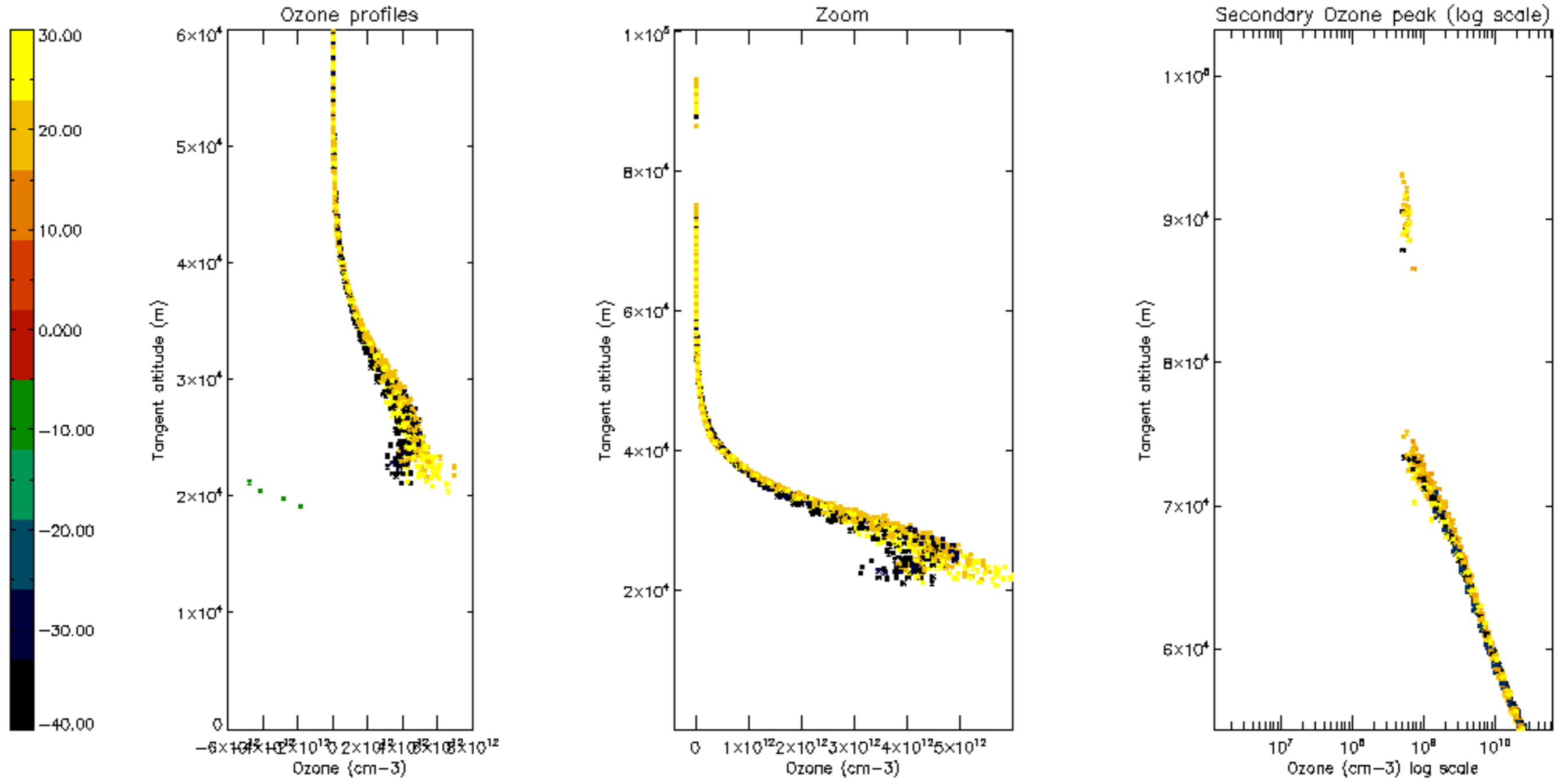
Percentage of saturation errors per profile

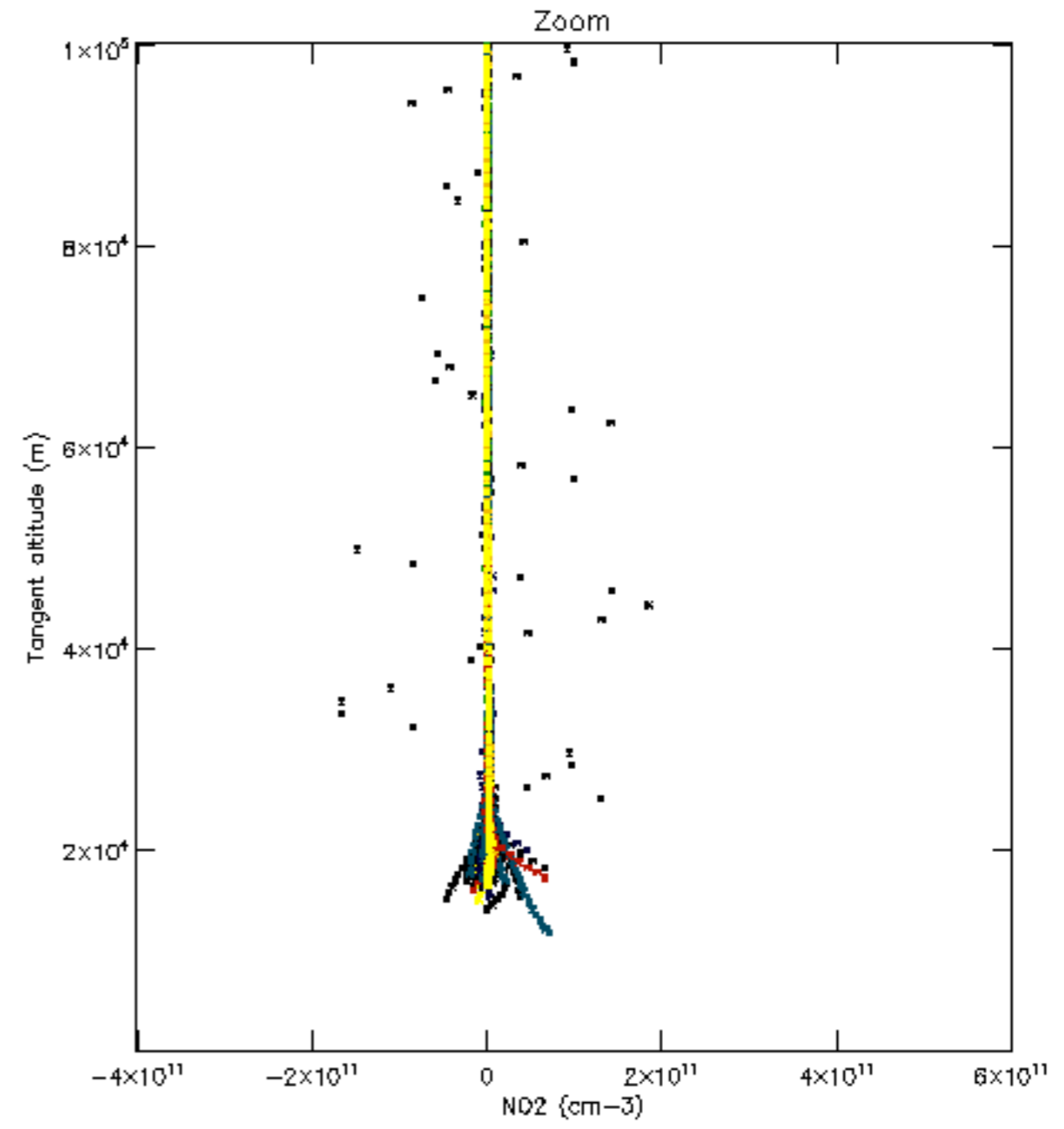
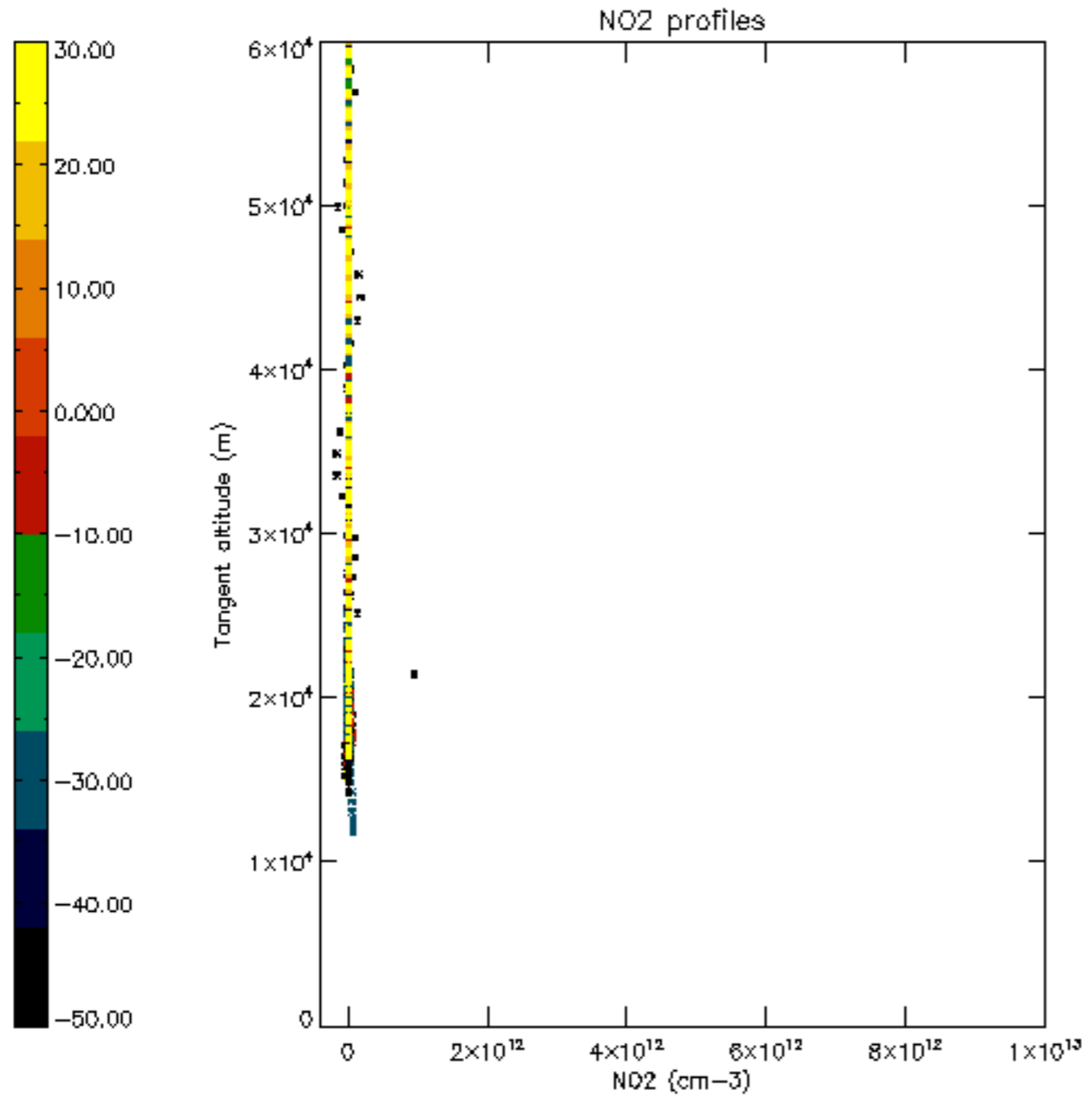


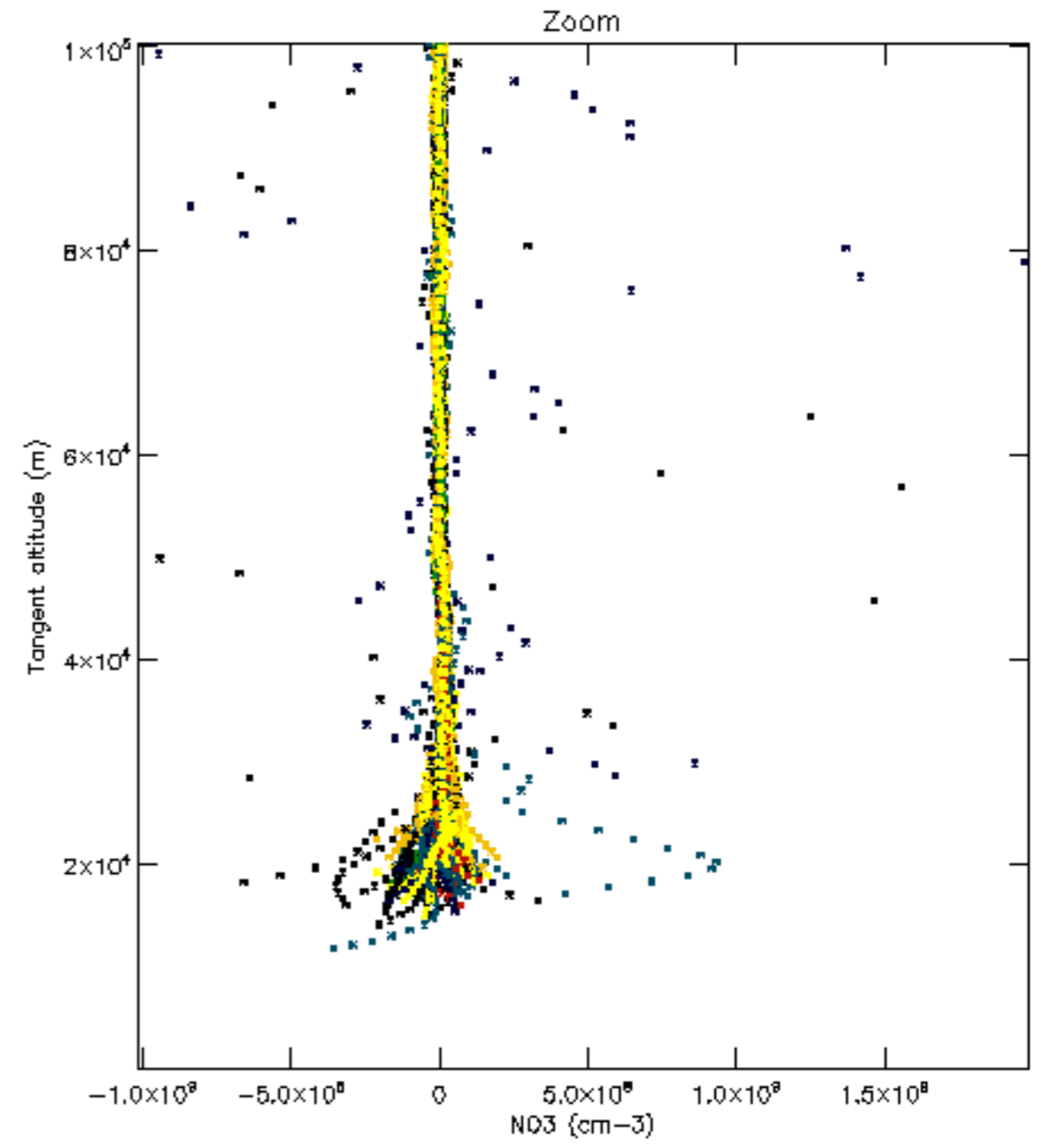
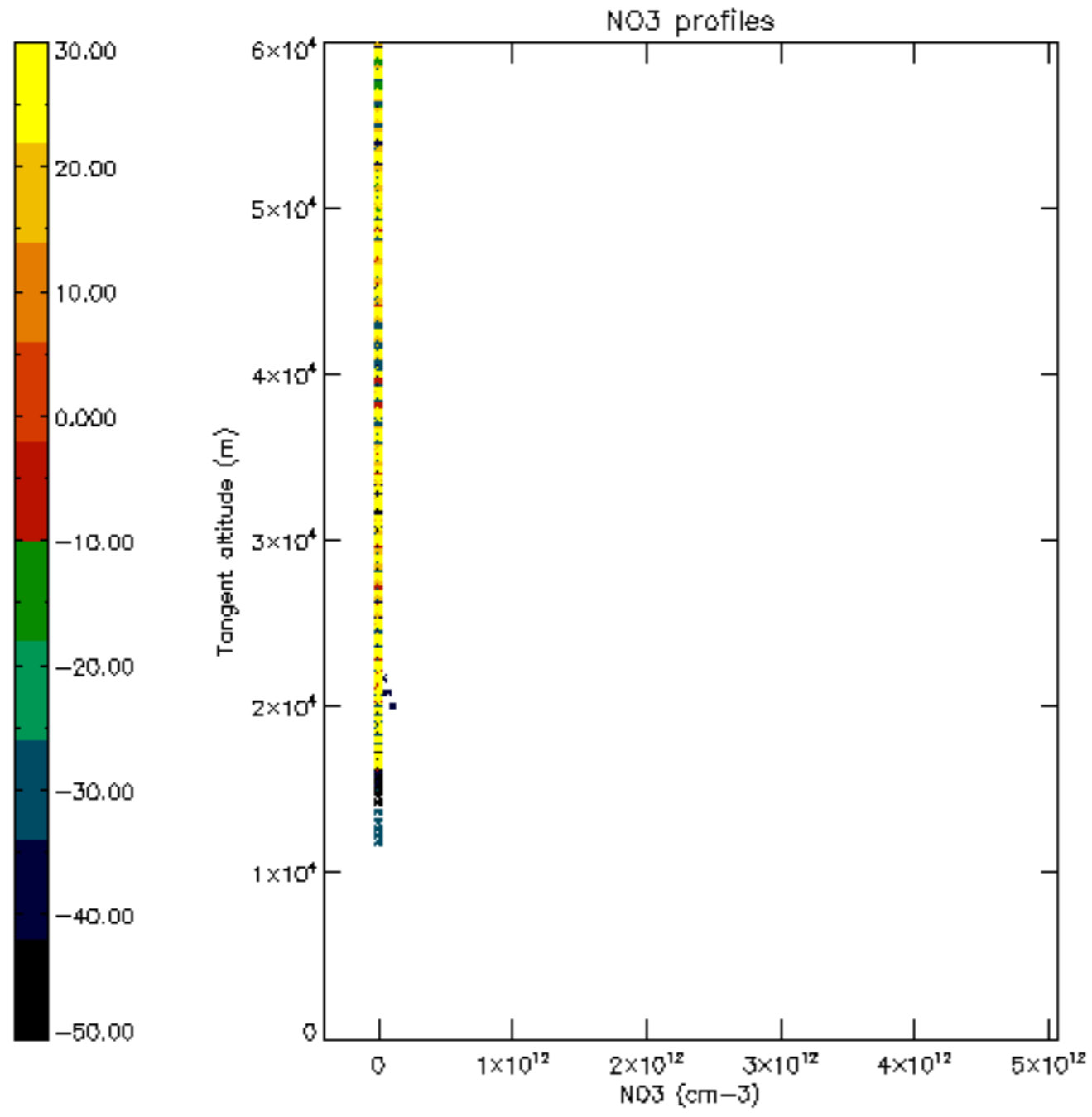


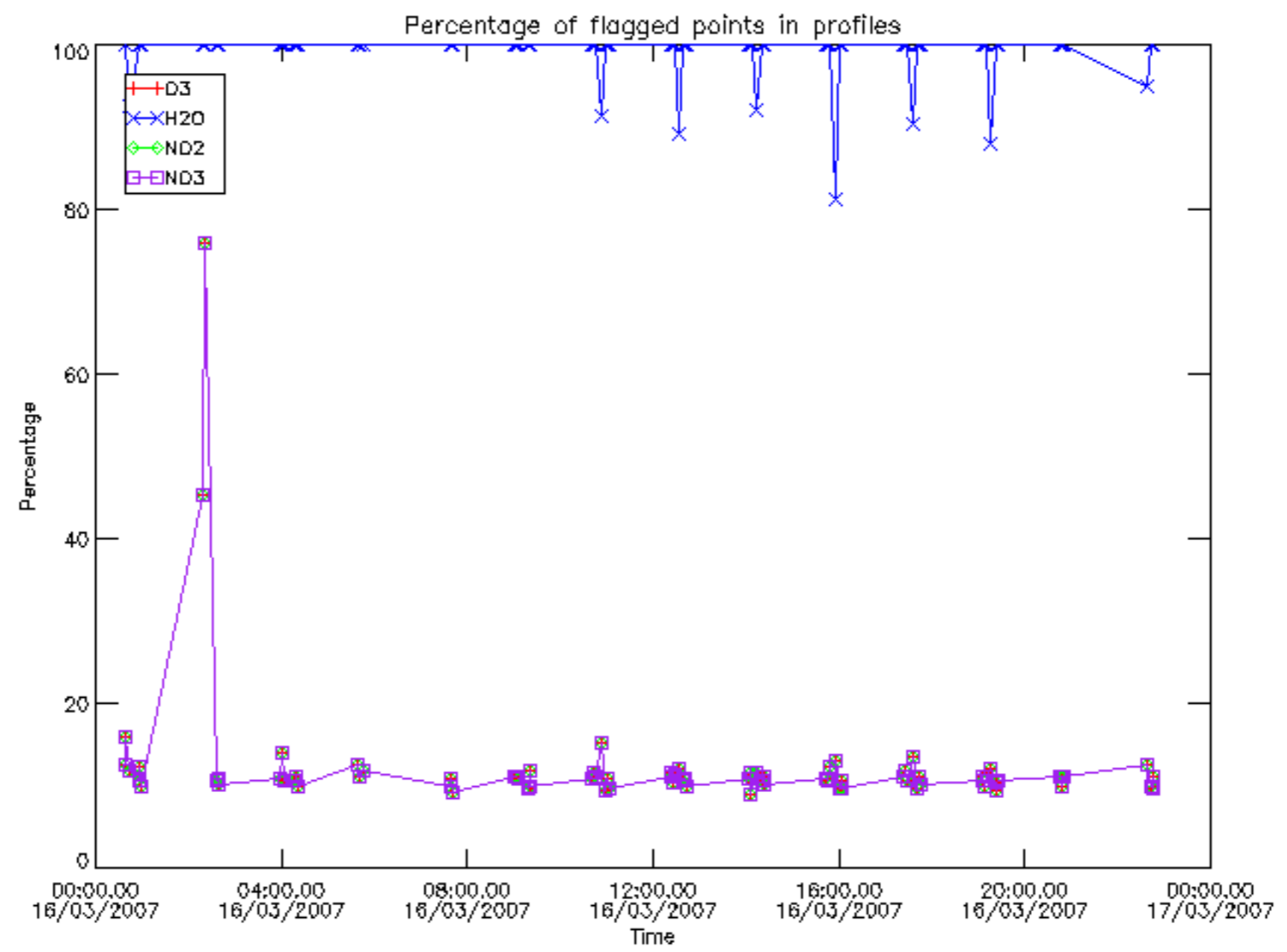




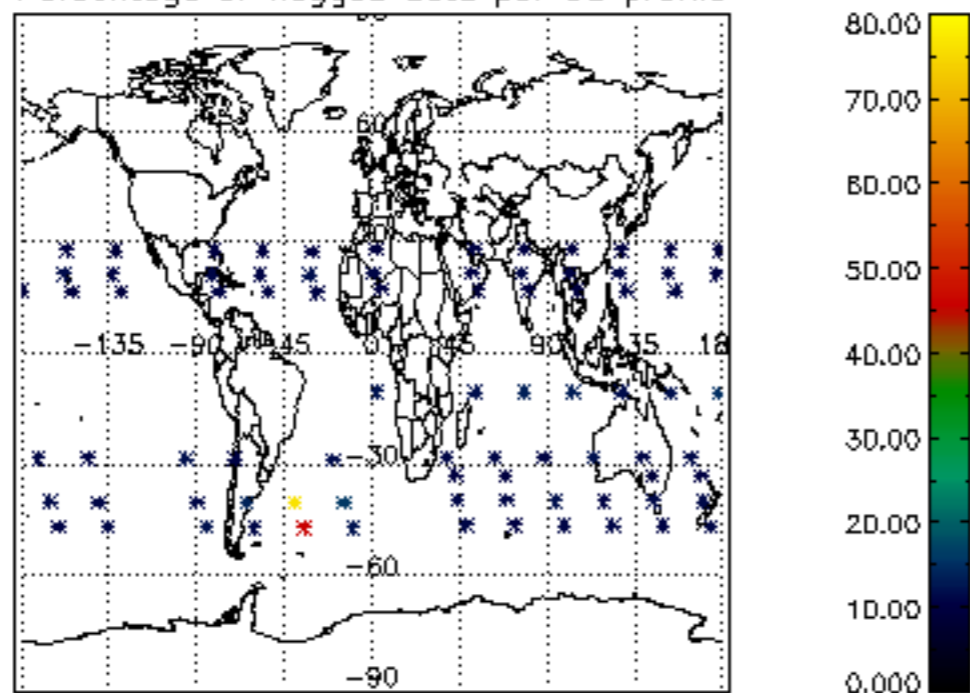




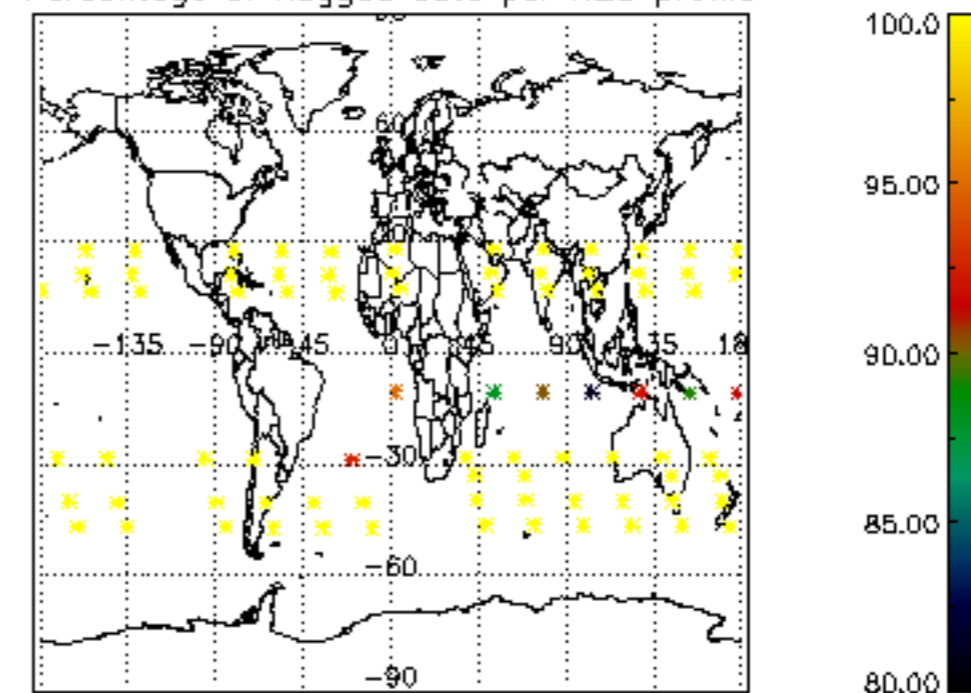




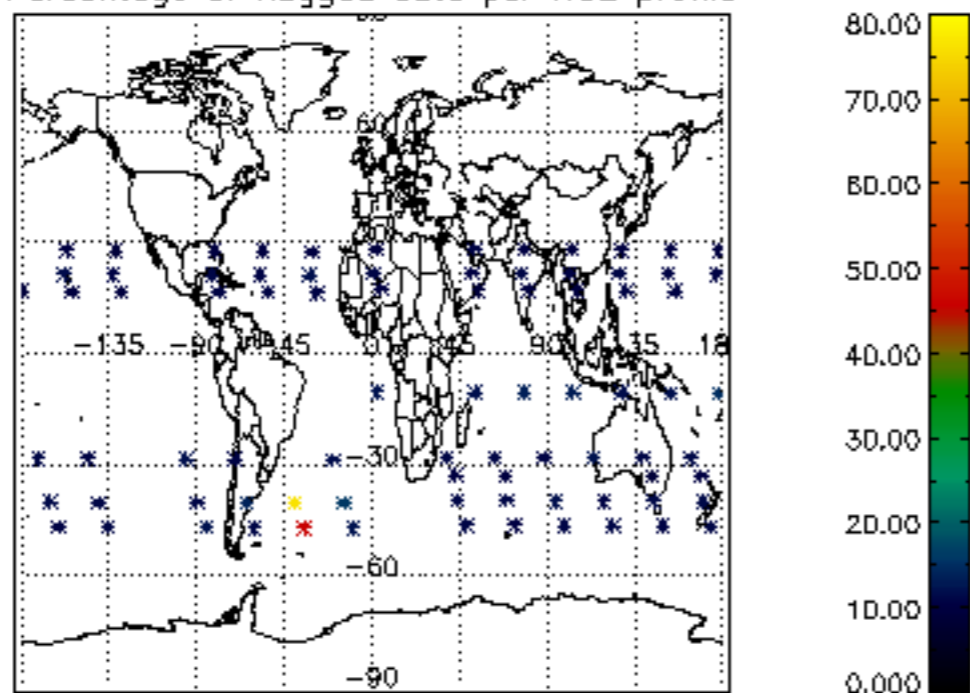
Percentage of flagged data per D3 profile



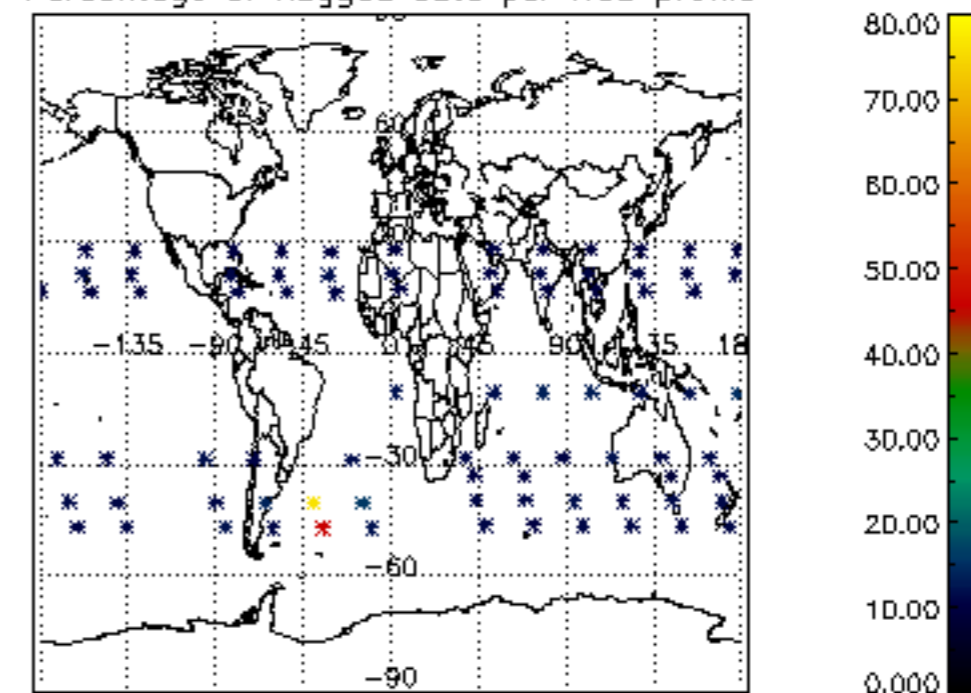
Percentage of flagged data per H2O profile

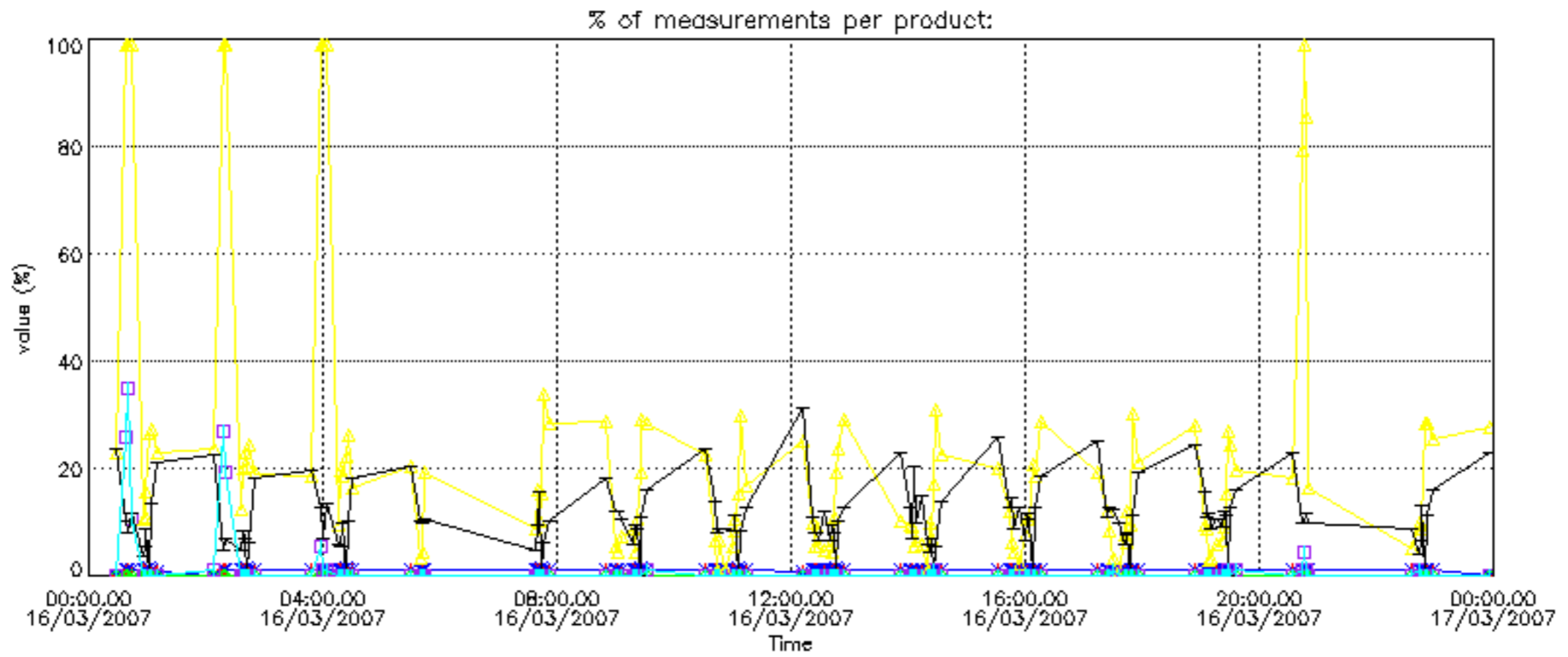


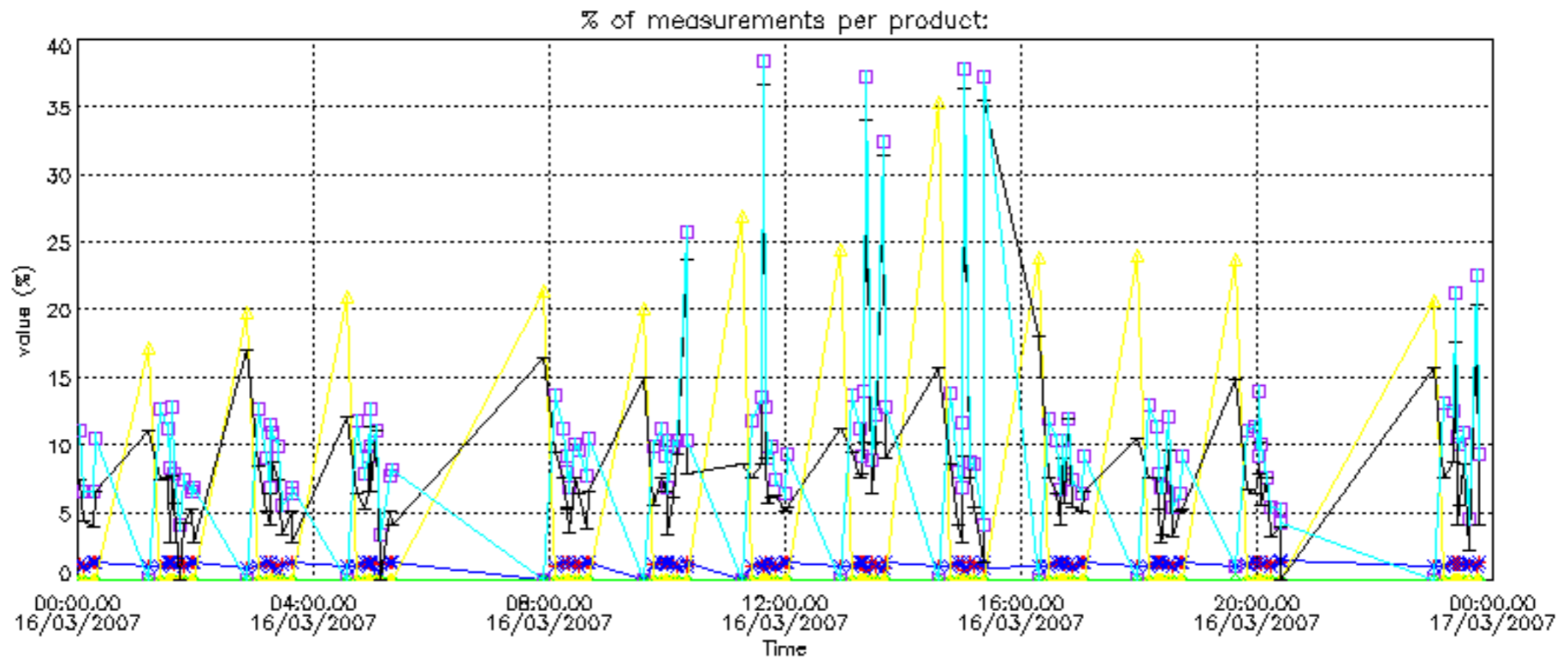
Percentage of flagged data per NO2 profile



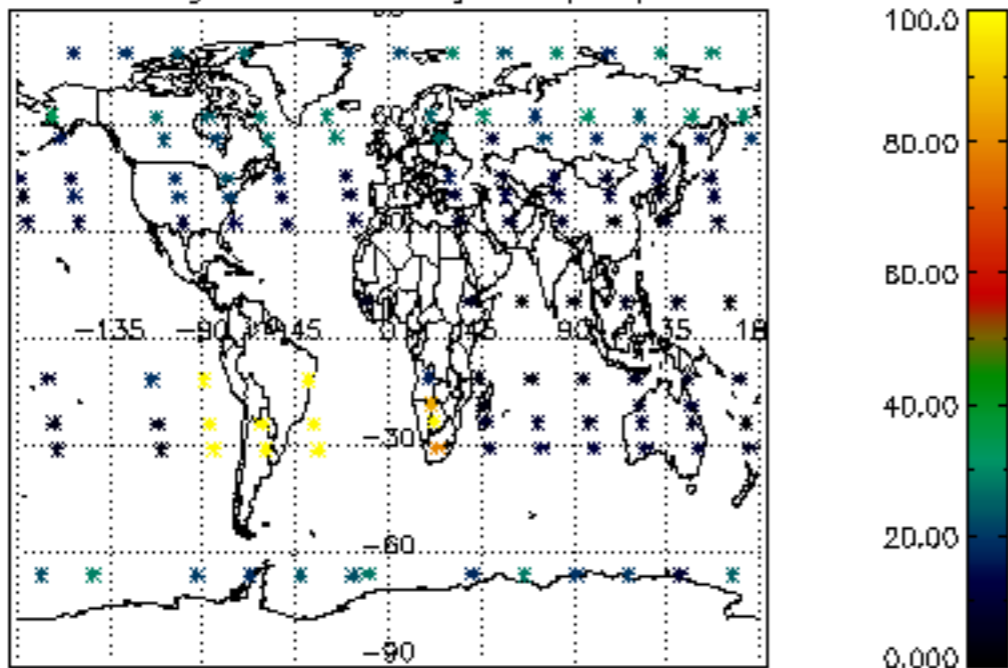
Percentage of flagged data per NO3 profile



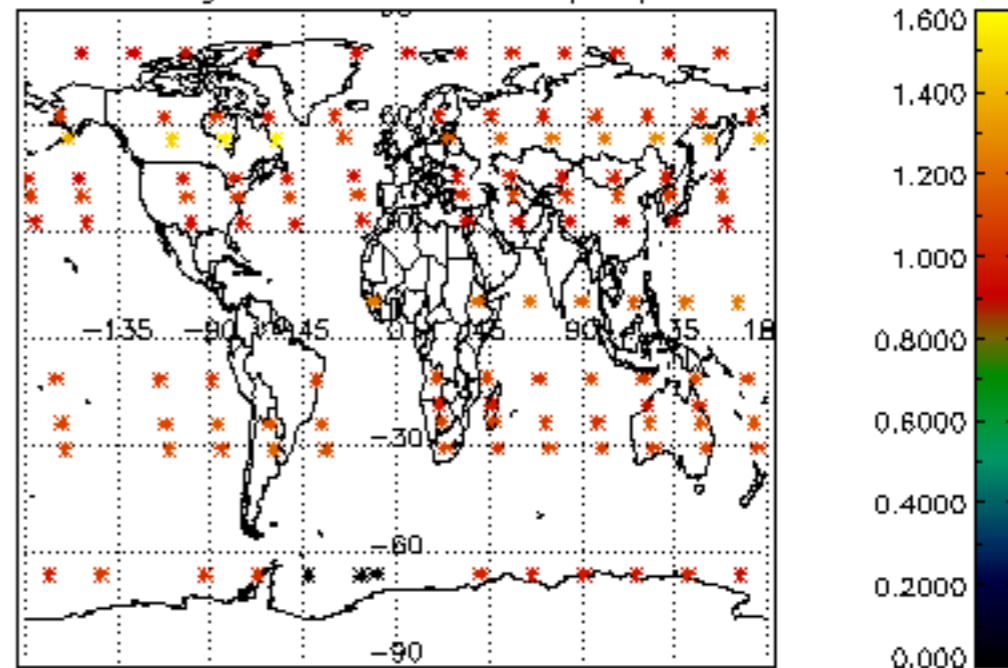




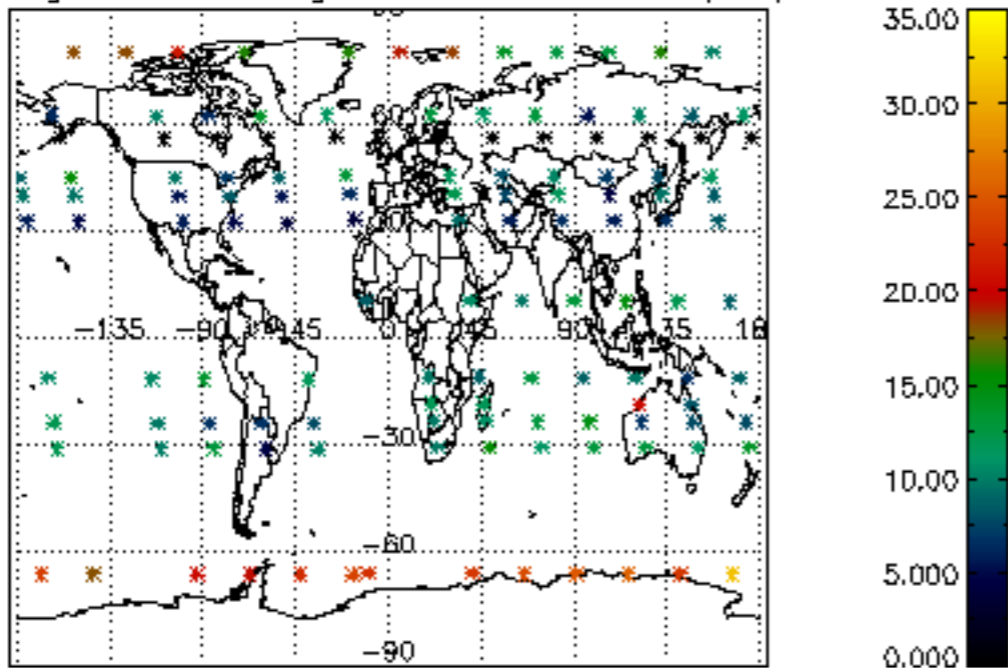
Percentage of cosmic ray hits per profile



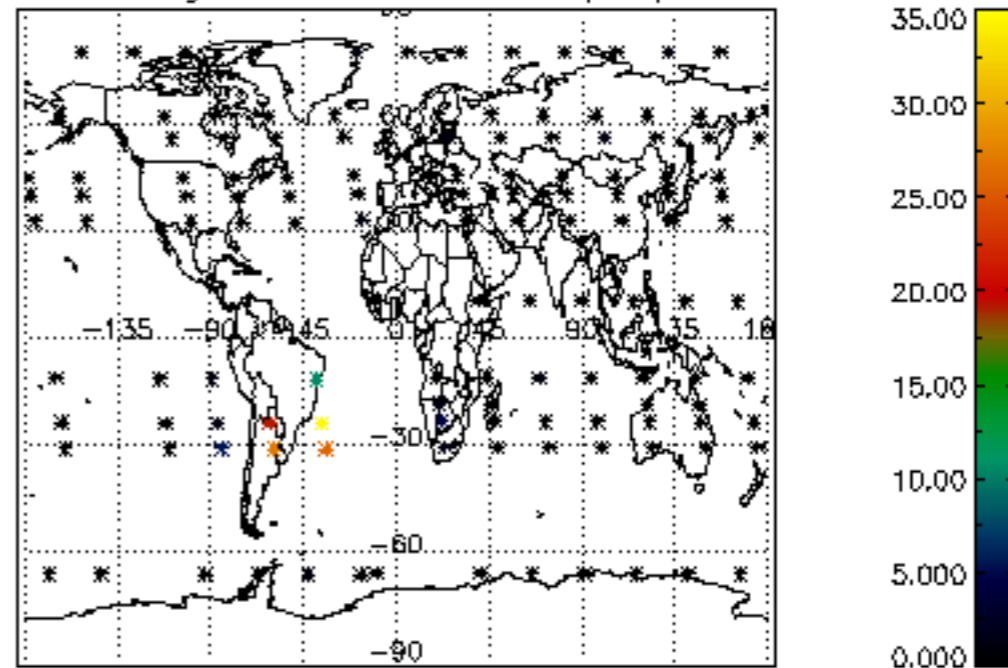
Percentage of datation errors per profile



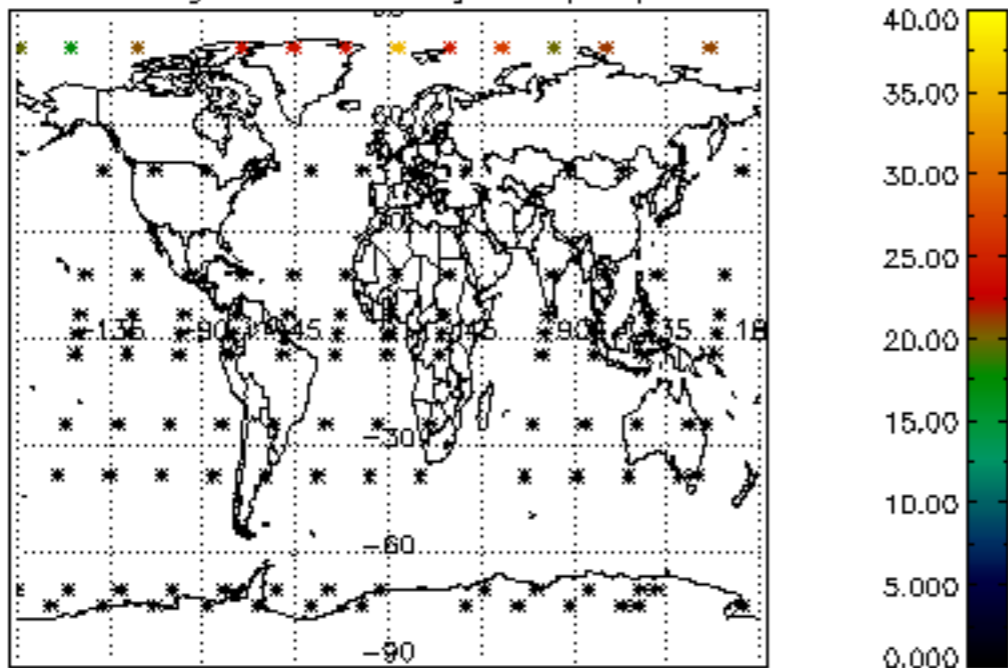
Percentage of star falling outside central band per profile



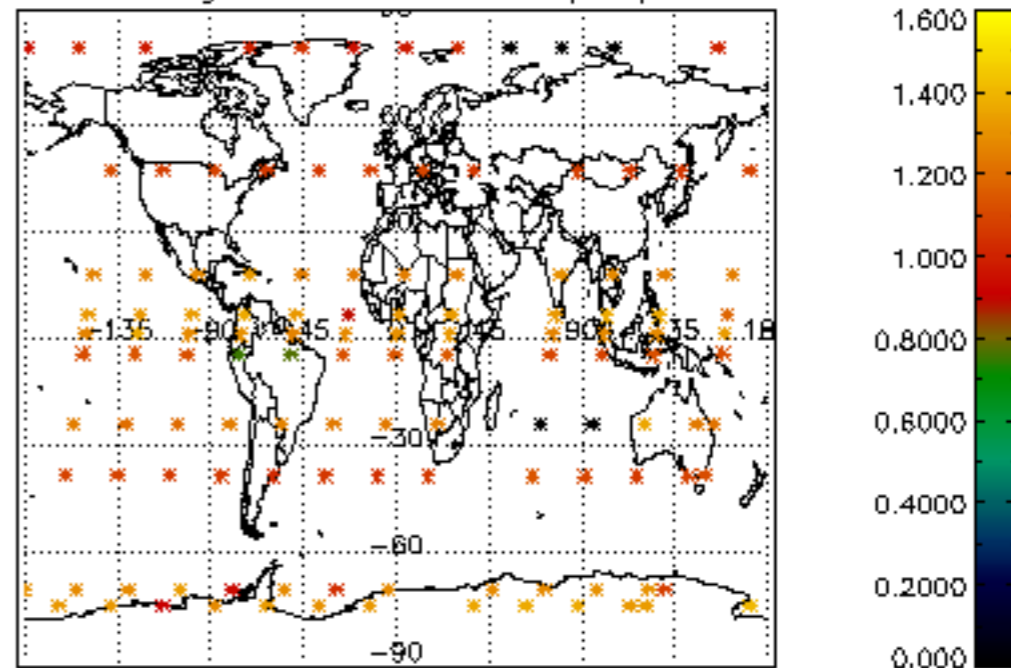
Percentage of saturation errors per profile



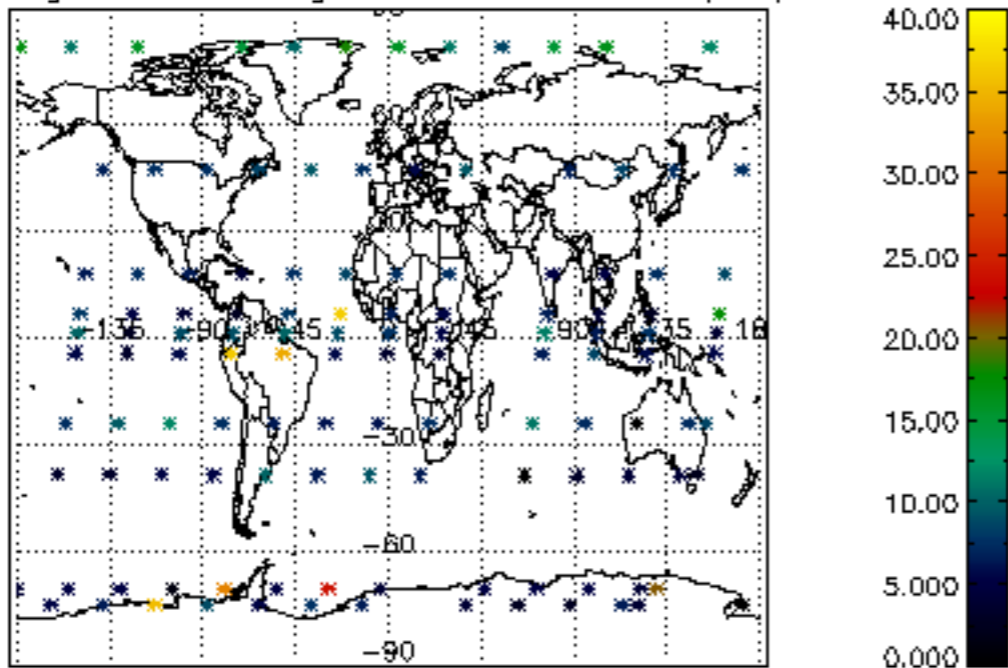
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

