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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	24APR2013 04:22:19
Data source version	GOMOS/6.01
Start time of products	22-09-2006 (22SEP2006 00:00:00)
Stop time of products	23-09-2006 (23SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	229
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

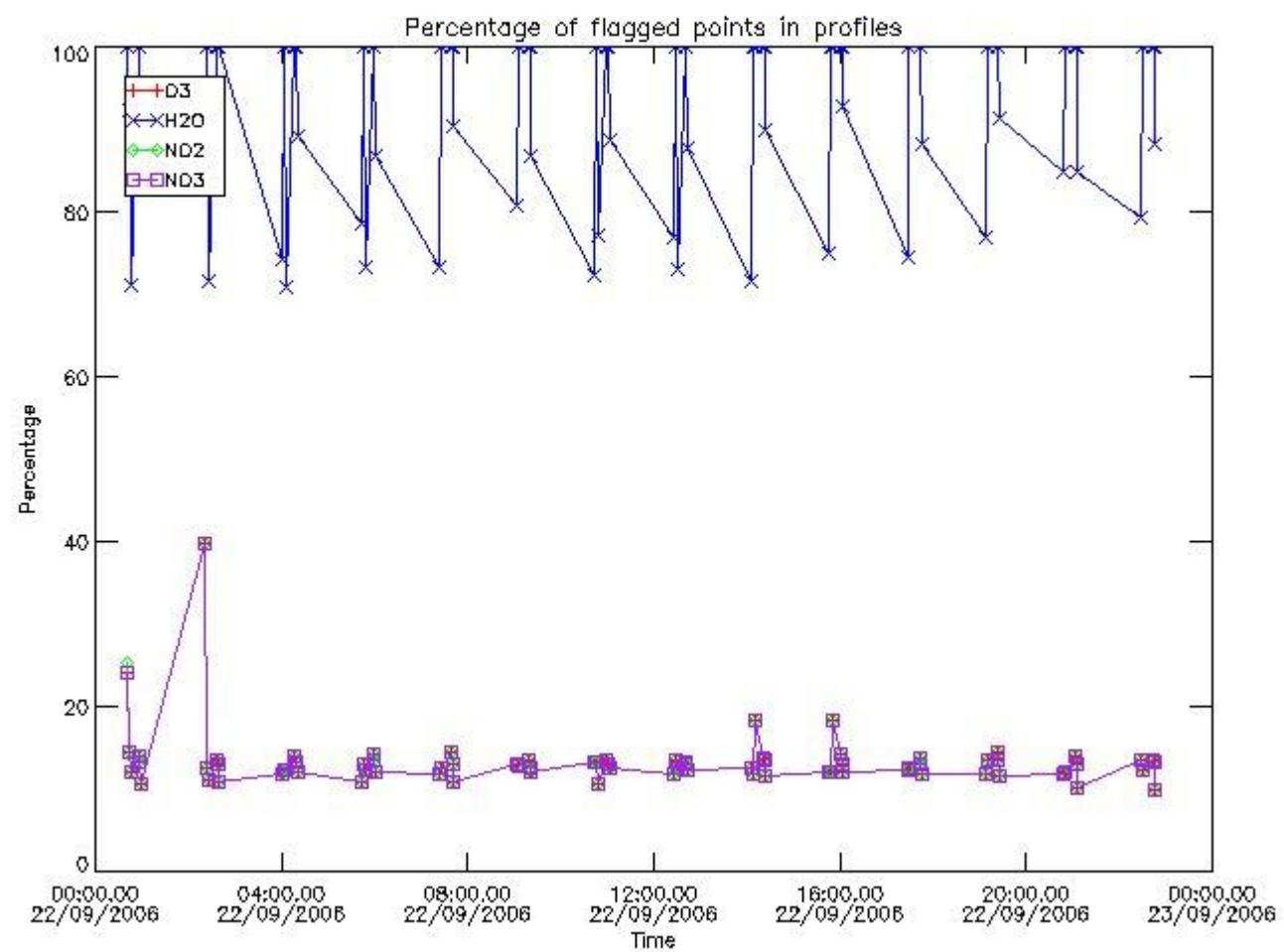
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060922_000253_000000362051_00245_23846_1984.N1	22-SEP-2006 00:02:53	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23846	No
2	GOM_NL__2PRFIN20060922_000416_000000362051_00245_23846_1985.N1	22-SEP-2006 00:04:16	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	23846	No
3	GOM_NL__2PRFIN20060922_001029_000000362051_00245_23846_1986.N1	22-SEP-2006 00:10:29	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	23846	No
4	GOM_NL__2PRFIN20060922_001157_000000342051_00245_23846_1987.N1	22-SEP-2006 00:11:57	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	23846	No
5	GOM_NL__2PRFIN20060922_004043_000000442051_00245_23846_1988.N1	22-SEP-2006 00:40:43	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	23846	No
6	GOM_NL__2PRFIN20060922_004255_000000392051_00245_23846_1989.N1	22-SEP-2006 00:42:55	Dark	39.000	34	Gam2Vel	1.7930	23000.	78	23846	No
7	GOM_NL__2PRFIN20060922_004535_000000422051_00245_23846_1990.N1	22-SEP-2006 00:45:35	Dark	42.000	41	Eps Car	1.8600	4100.0	84	23846	No
8	GOM_NL__2PRFIN20060922_005604_000000372051_00246_23847_1975.N1	22-SEP-2006 00:56:04	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	23847	No
9	GOM_NL__2PRFIN20060922_005736_000000392051_00246_23847_1976.N1	22-SEP-2006 00:57:36	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	23847	No
10	GOM_NL__2PRFIN20060922_005903_000000482051_00246_23847_1977.N1	22-SEP-2006 00:59:03	Dark	48.000	9	Alp Eri	0.45300	24000.	96	23847	No
11	GOM_NL__2PRFIN20060922_010501_000000432051_00246_23847_1978.N1	22-SEP-2006 01:05:01	Straylight	43.000	63	Bet Gru	2.1500	2800.0	86	23847	No
12	GOM_NL__2PRFIN20060922_010936_000000442051_00246_23847_1979.N1	22-SEP-2006 01:09:36	Straylight	43.500	18	24Alp PsA	1.1660	9700.0	87	23847	No
13	GOM_NL__2PRFIN20060922_011816_000000372051_00246_23847_1980.N1	22-SEP-2006 01:18:16	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	23847	No
14	GOM_NL__2PRFIN20060922_012119_000000372051_00246_23847_1981.N1	22-SEP-2006 01:21:19	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	23847	No
15	GOM_NL__2PRFIN20060922_012643_000000372051_00246_23847_1982.N1	22-SEP-2006 01:26:43	Bright	36.500	164	44Eta Peg	2.9480	5400.0	73	23847	No
16	GOM_NL__2PRFIN20060922_013558_000000362051_00246_23847_1983.N1	22-SEP-2006 01:35:58	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	23847	No
17	GOM_NL__2PRFIN20060922_014329_000000362051_00246_23847_1984.N1	22-SEP-2006 01:43:29	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23847	No
18	GOM_NL__2PRFIN20060922_014452_000000522051_00246_23847_1985.N1	22-SEP-2006 01:44:52	Bright	51.500	60	7Bet UMi	2.0810	3950.0	103	23847	No
19	GOM_NL__2PRFIN20060922_015105_000000362051_00246_23847_1986.N1	22-SEP-2006 01:51:05	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	23847	No
20	GOM_NL__2PRFIN20060922_015233_000000352051_00246_23847_1987.N1	22-SEP-2006 01:52:33	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	23847	No
21	GOM_NL__2PRFIN20060922_022119_000000452051_00246_23847_1988.N1	22-SEP-2006 02:21:19	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	23847	No
22	GOM_NL__2PRFIN20060922_022331_000000412051_00246_23847_1989.N1	22-SEP-2006 02:23:31	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	23847	No
23	GOM_NL__2PRFIN20060922_022611_000000462051_00246_23847_1990.N1	22-SEP-2006 02:26:11	Dark	46.000	41	Eps Car	1.8600	4100.0	92	23847	No
24	GOM_NL__2PRFIN20060922_023640_000000382051_00247_23848_1975.N1	22-SEP-2006 02:36:40	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	23848	No
25	GOM_NL__2PRFIN20060922_023812_000000402051_00247_23848_1976.N1	22-SEP-2006 02:38:12	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	23848	No
26	GOM_NL__2PRFIN20060922_023939_000000472051_00247_23848_1977.N1	22-SEP-2006 02:39:39	Dark	46.500	9	Alp Eri	0.45300	24000.	93	23848	No
27	GOM_NL__2PRFIN20060922_024537_000000412051_00247_23848_1978.N1	22-SEP-2006 02:45:37	Straylight	40.500	63	Bet Gru	2.1500	2800.0	81	23848	No
28	GOM_NL__2PRFIN20060922_025012_000000452051_00247_23848_1979.N1	22-SEP-2006 02:50:12	Straylight	44.500	18	24Alp PsA	1.1660	9700.0	89	23848	No
29	GOM_NL__2PRFIN20060922_025852_000000372051_00247_23848_1980.N1	22-SEP-2006 02:58:52	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	23848	No
30	GOM_NL__2PRFIN20060922_030155_000000382051_00247_23848_1981.N1	22-SEP-2006 03:01:55	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23848	No
31	GOM_NL__2PRFIN20060922_030719_000000382051_00247_23848_1982.N1	22-SEP-2006 03:07:19	Bright	37.500	164	44Eta Peg	2.9480	5400.0	75	23848	No
32	GOM_NL__2PRFIN20060922_031634_000000352051_00247_23848_1983.N1	22-SEP-2006 03:16:34	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	23848	No
33	GOM_NL__2PRFIN20060922_032405_000000342051_00247_23848_1984.N1	22-SEP-2006 03:24:05	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	23848	No
34	GOM_NL__2PRFIN20060922_032528_000000502051_00247_23848_1985.N1	22-SEP-2006 03:25:28	Bright	49.500	60	7Bet UMi	2.0810	3950.0	99	23848	No
35	GOM_NL__2PRFIN20060922_033141_000000362051_00247_23848_1986.N1	22-SEP-2006 03:31:41	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	23848	No
36	GOM_NL__2PRFIN20060922_033309_000000362051_00247_23848_1987.N1	22-SEP-2006 03:33:09	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	23848	No
37	GOM_NL__2PRFIN20060922_040156_000000432051_00247_23848_1988.N1	22-SEP-2006 04:01:56	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	23848	No
38	GOM_NL__2PRFIN20060922_040408_000000422051_00247_23848_1989.N1	22-SEP-2006 04:04:08	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	23848	No
39	GOM_NL__2PRFIN20060922_040648_000000422051_00247_23848_1990.N1	22-SEP-2006 04:06:48	Dark	41.500	41	Eps Car	1.8600	4100.0	83	23848	No
40	GOM_NL__2PRFIN20060922_041716_000000372051_00248_23849_1975.N1	22-SEP-2006 04:17:16	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	23849	No
41	GOM_NL__2PRFIN20060922_041849_000000392051_00248_23849_1976.N1	22-SEP-2006 04:18:49	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	23849	No
42	GOM_NL__2PRFIN20060922_042016_000000422051_00248_23849_1977.N1	22-SEP-2006 04:20:16	Dark	42.000	9	Alp Eri	0.45300	24000.	84	23849	No

220	GOM_NL__2PRFIN20060922_225726_000000432051_00259_23860_2003.N1	22-SEP-2006 22:57:26	Straylight	42.500	18	24Alp PsA	1.1660	9700.0	85	23860	No
221	GOM_NL__2PRFIN20060922_230605_000000362051_00259_23860_2004.N1	22-SEP-2006 23:06:05	Bright	35.500	162	34Alp Aqr	2.9440	5350.0	71	23860	No
222	GOM_NL__2PRFIN20060922_230909_000000382051_00259_23860_2005.N1	22-SEP-2006 23:09:09	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23860	No
223	GOM_NL__2PRFIN20060922_231430_000000362051_00259_23860_2006.N1	22-SEP-2006 23:14:30	Bright	36.000	164	44Eta Peg	2.9480	5400.0	72	23860	No
224	GOM_NL__2PRFIN20060922_232346_000000522051_00259_23860_2007.N1	22-SEP-2006 23:23:46	Bright	52.000	89	5Alp Cep	2.4510	8000.0	104	23860	No
225	GOM_NL__2PRFIN20060922_233116_000000342051_00259_23860_2008.N1	22-SEP-2006 23:31:16	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	23860	No
226	GOM_NL__2PRFIN20060922_233244_000000342051_00259_23860_2009.N1	22-SEP-2006 23:32:44	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	23860	No
227	GOM_NL__2PRFIN20060922_233855_000000372051_00259_23860_2010.N1	22-SEP-2006 23:38:55	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	23860	No
228	GOM_NL__2PRFIN20060922_234023_000000352051_00259_23860_2011.N1	22-SEP-2006 23:40:23	Bright	34.500	82	48Bet UMa	2.3650	10600.0	69	23860	No
229	GOM_NL__2PRFIN20060922_234332_000000352051_00259_23860_2012.N1	22-SEP-2006 23:43:32	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	23860	No

3. Quality information per product

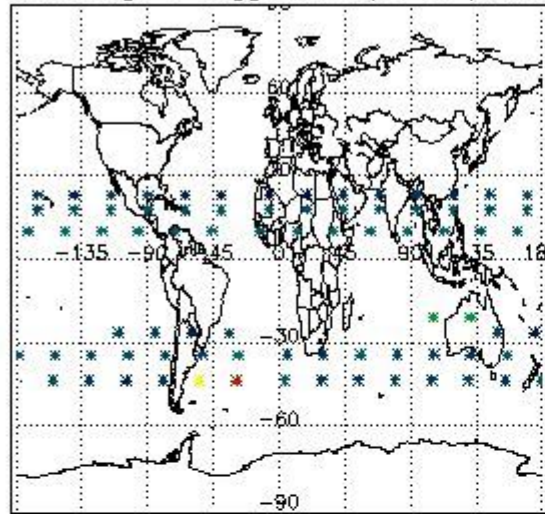
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

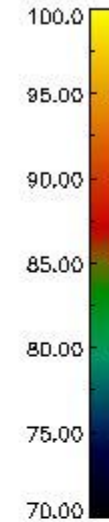
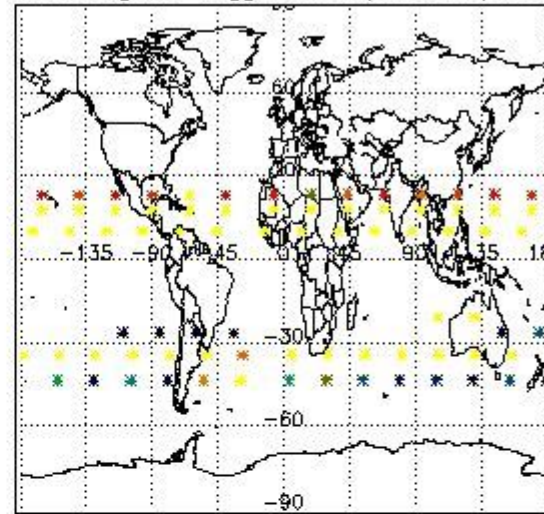


3.2 Plot quality information per product (world map)

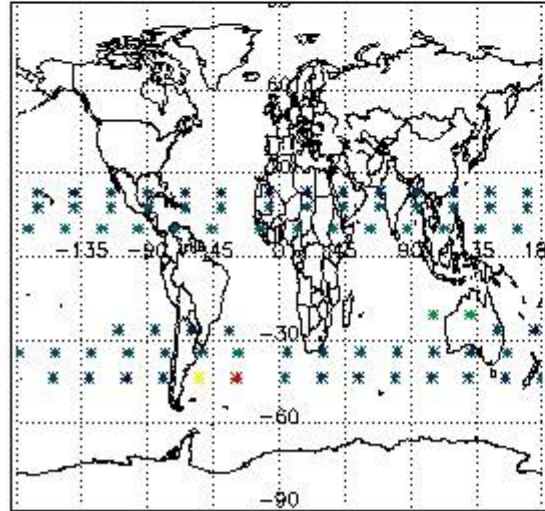
Percentage of flagged data per O3 profile



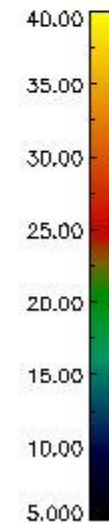
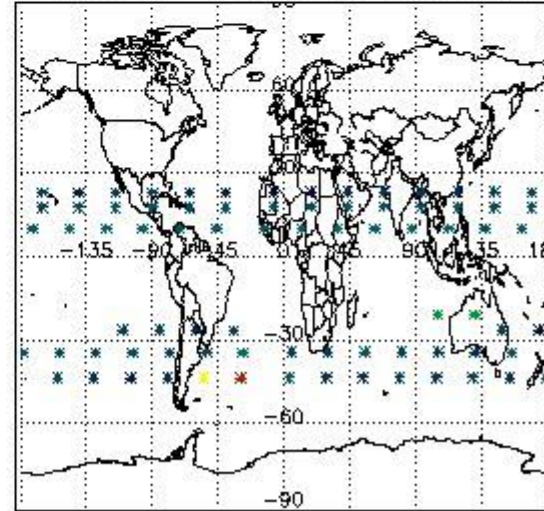
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

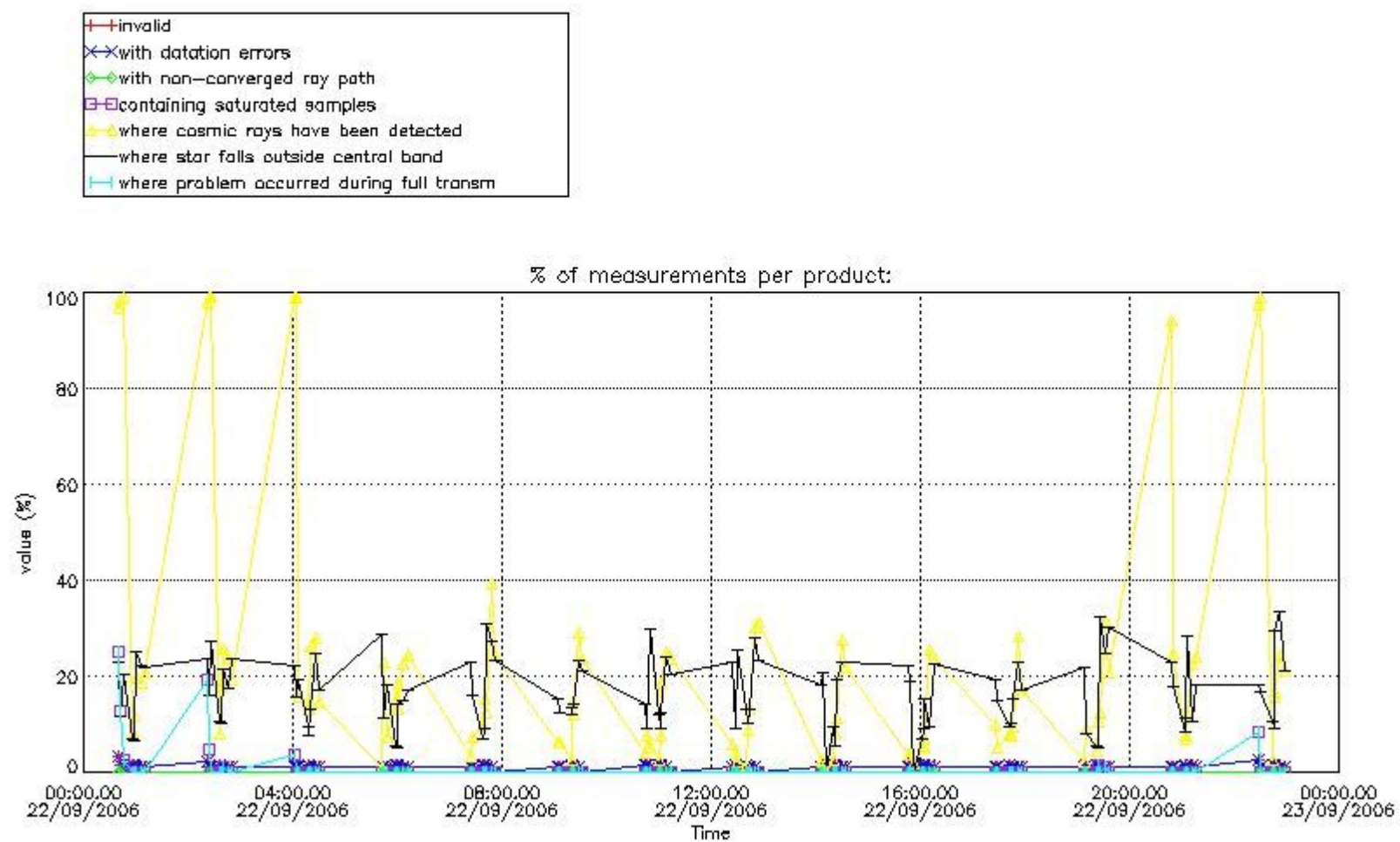


4. Level 1 quality information per product

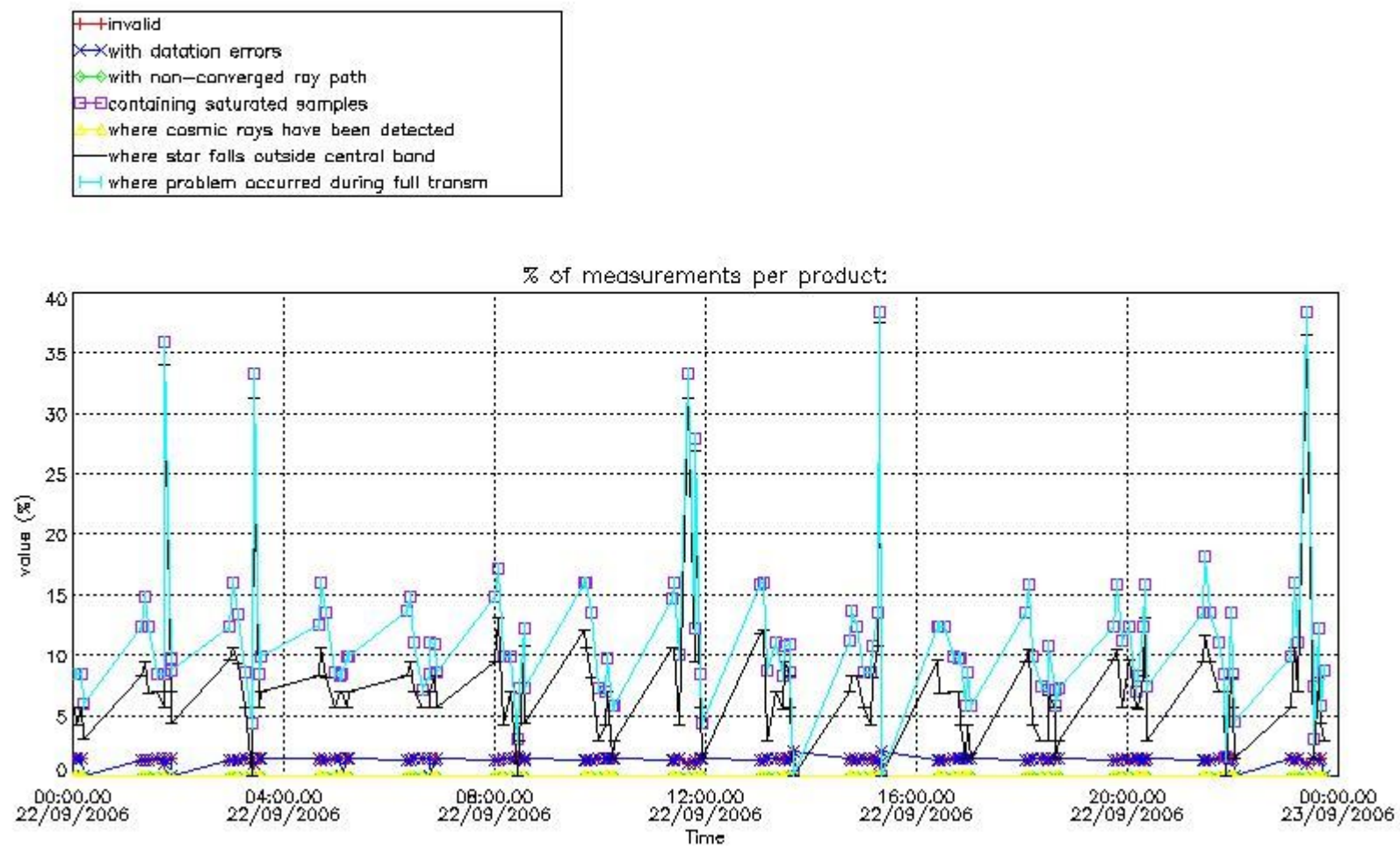
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

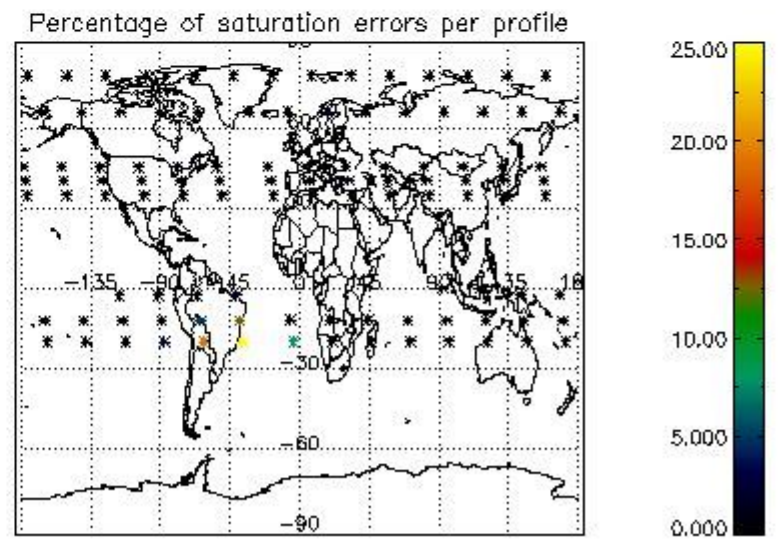
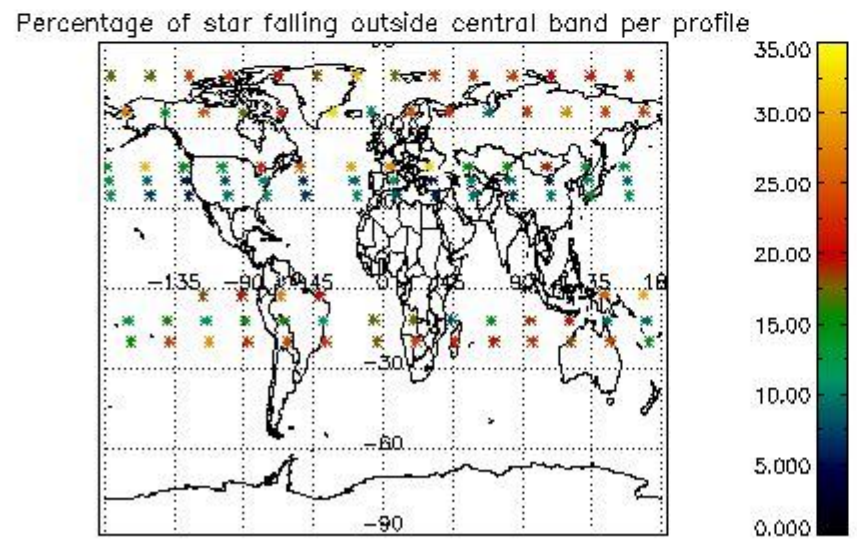
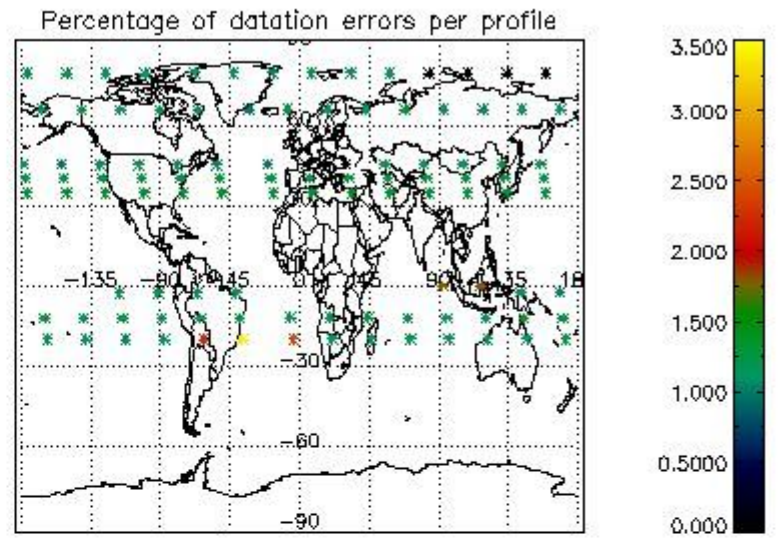
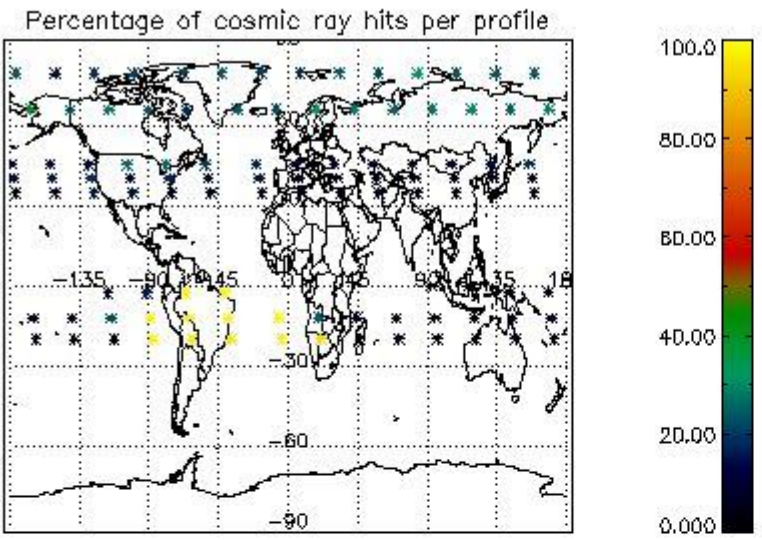


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

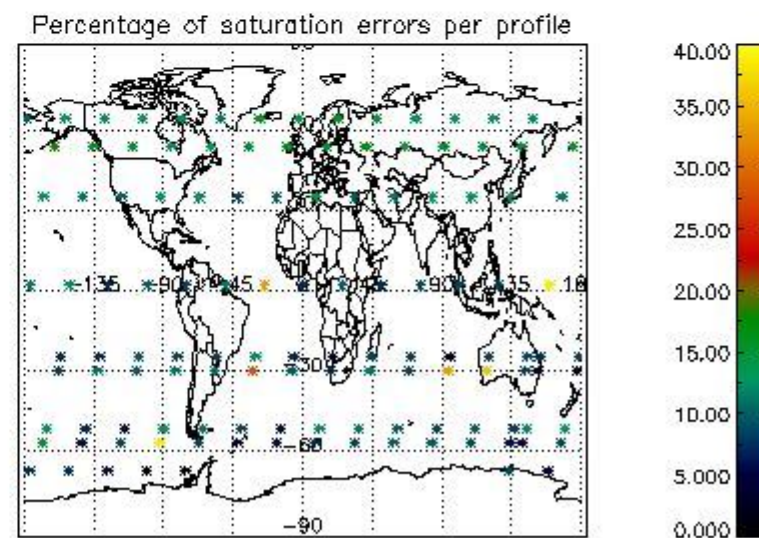
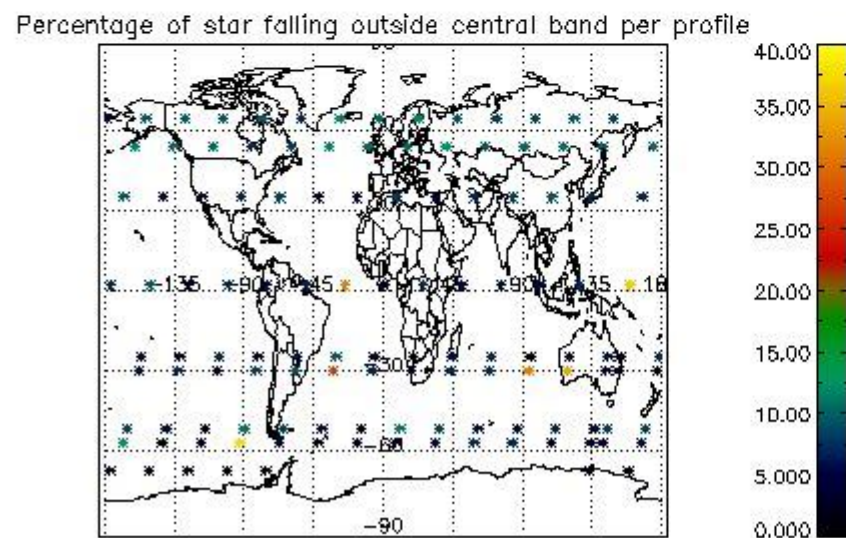
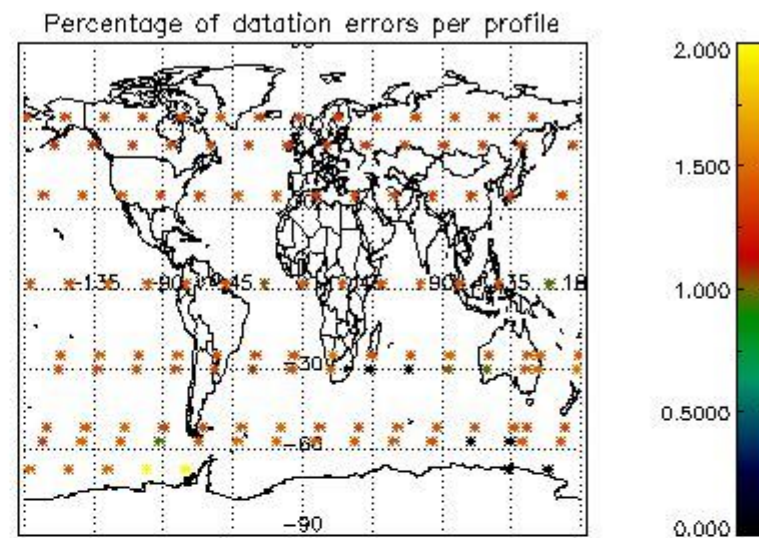
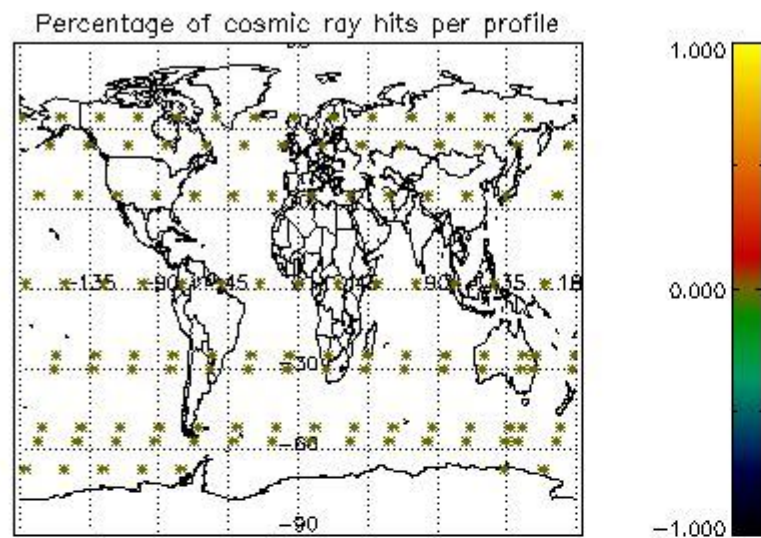


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

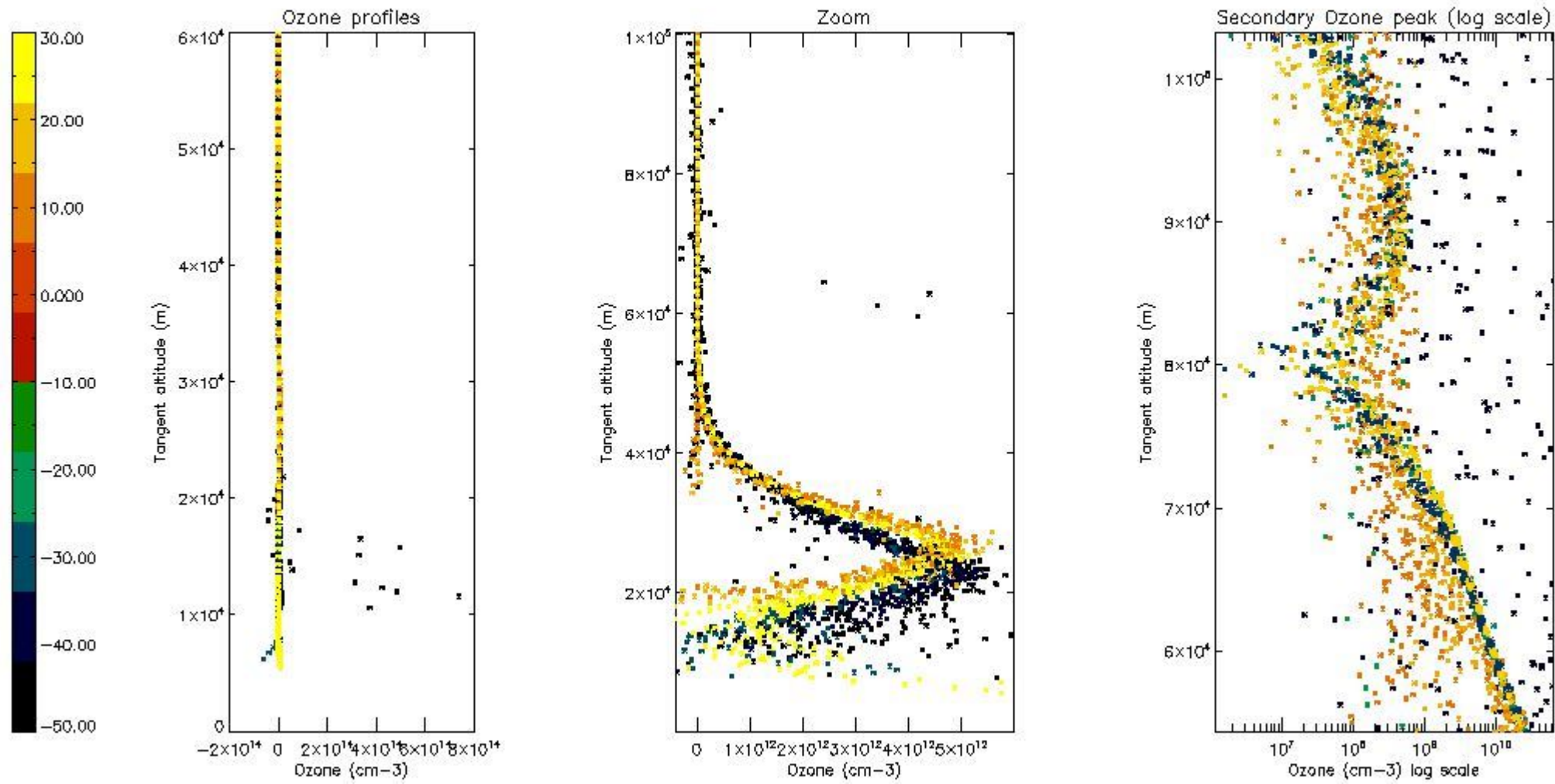
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	19

STD < 10	14
STD < 5	8

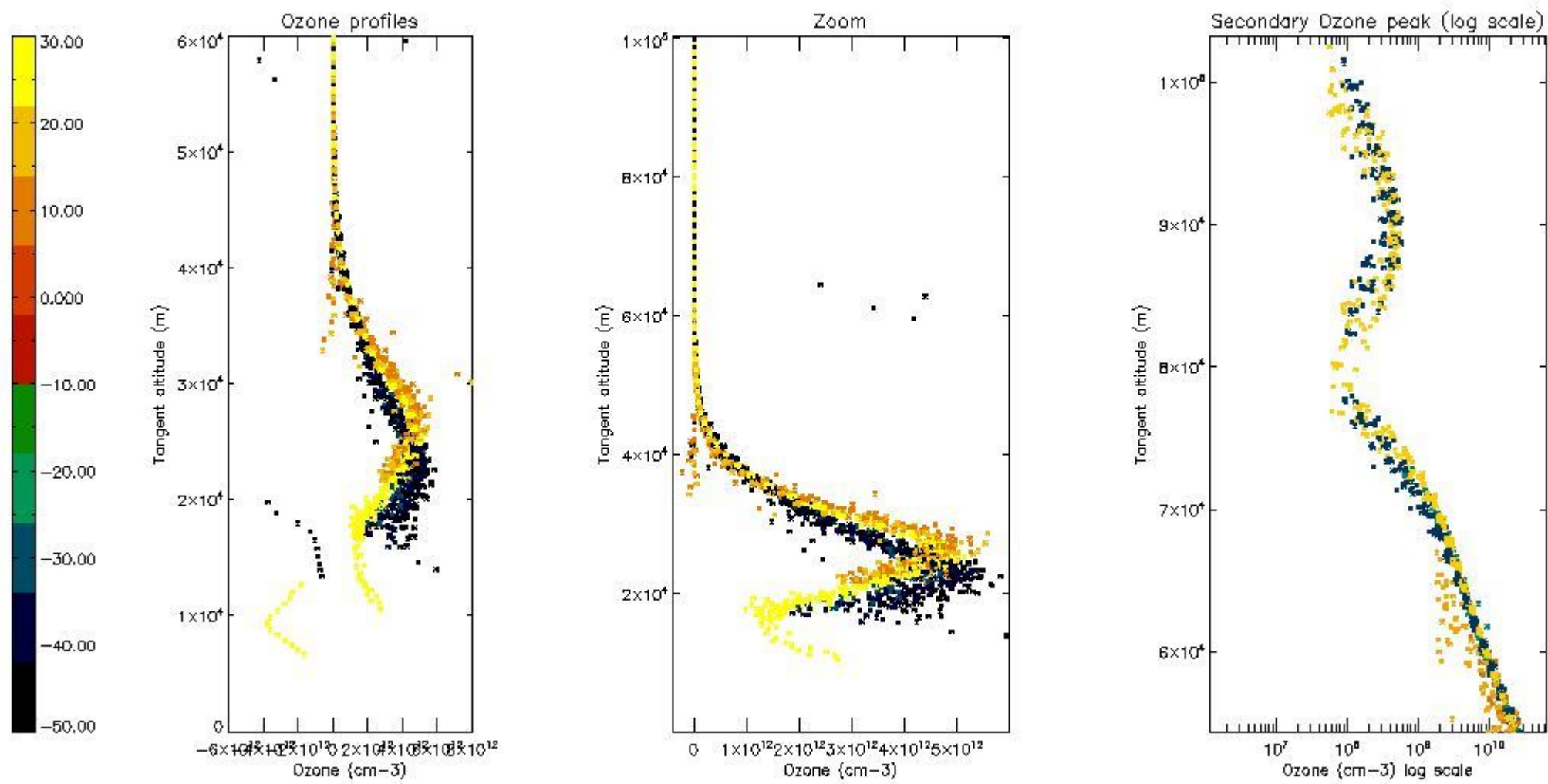
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



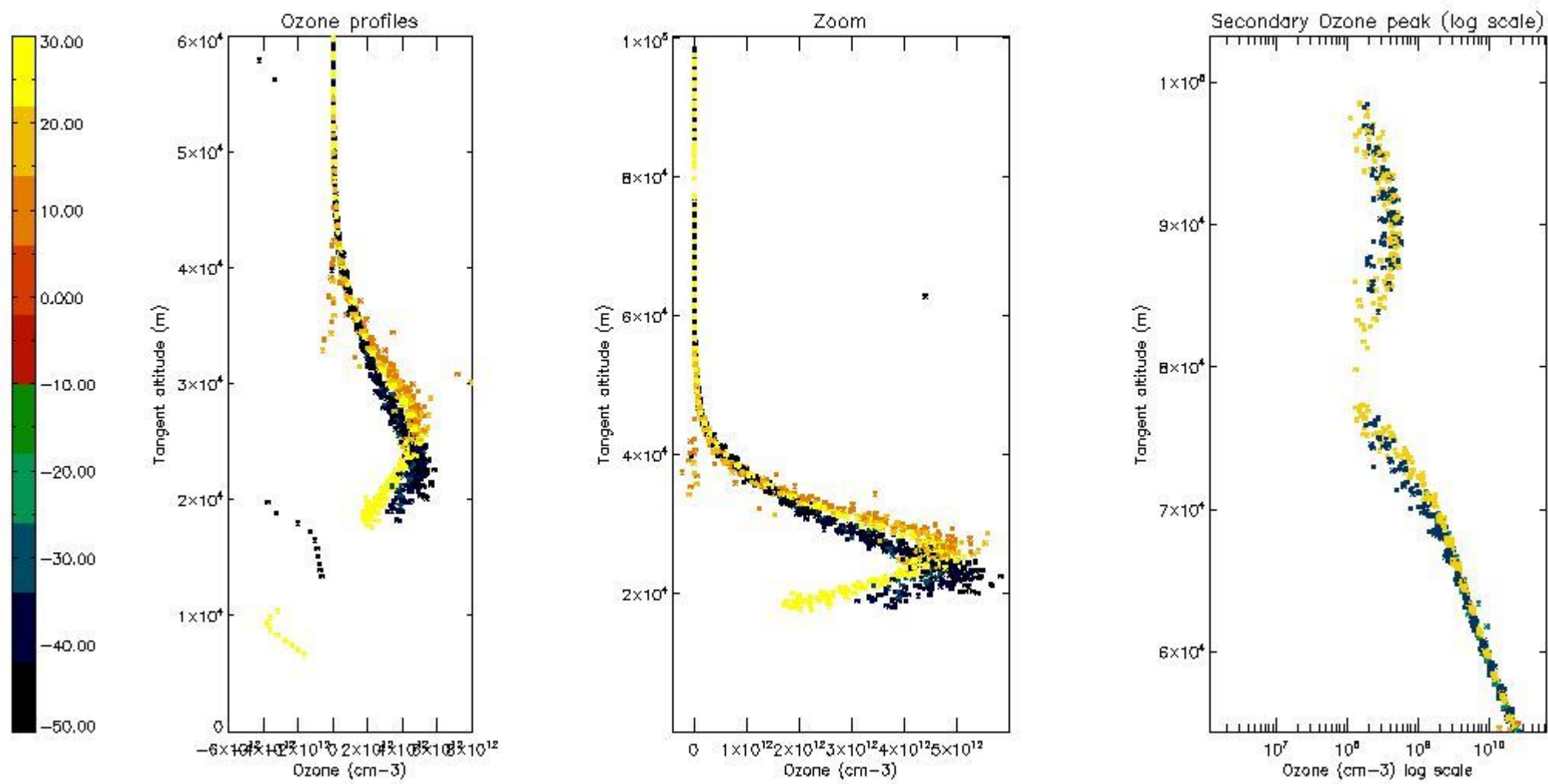
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



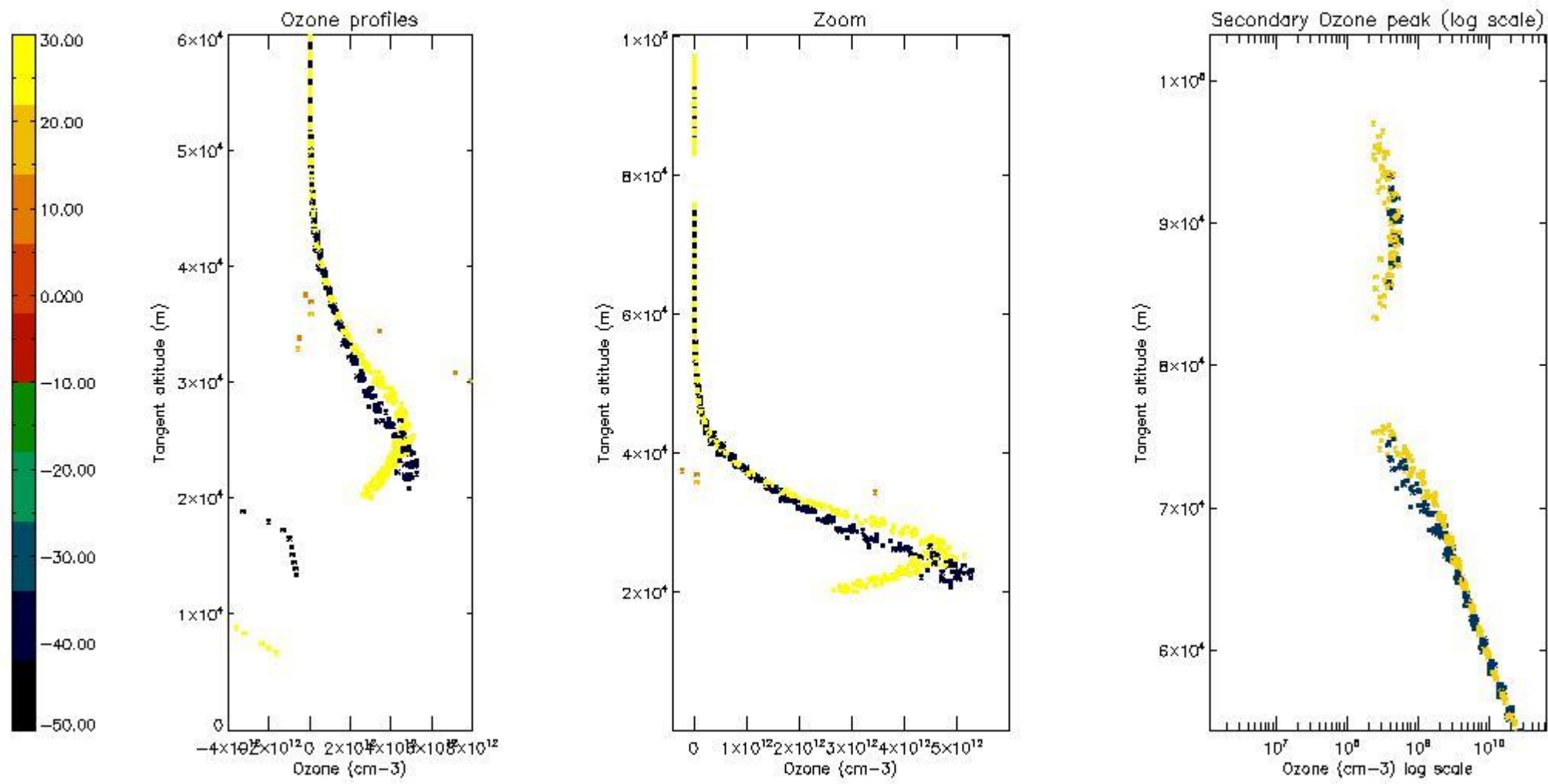
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



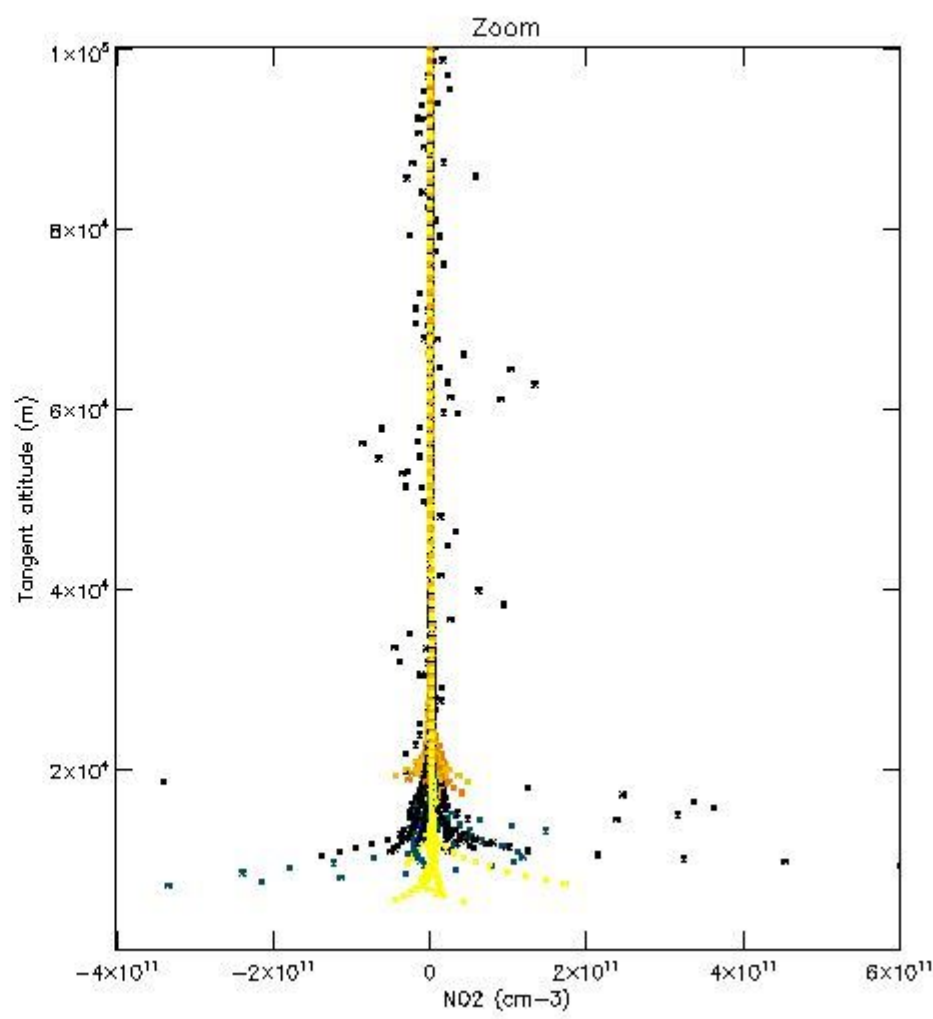
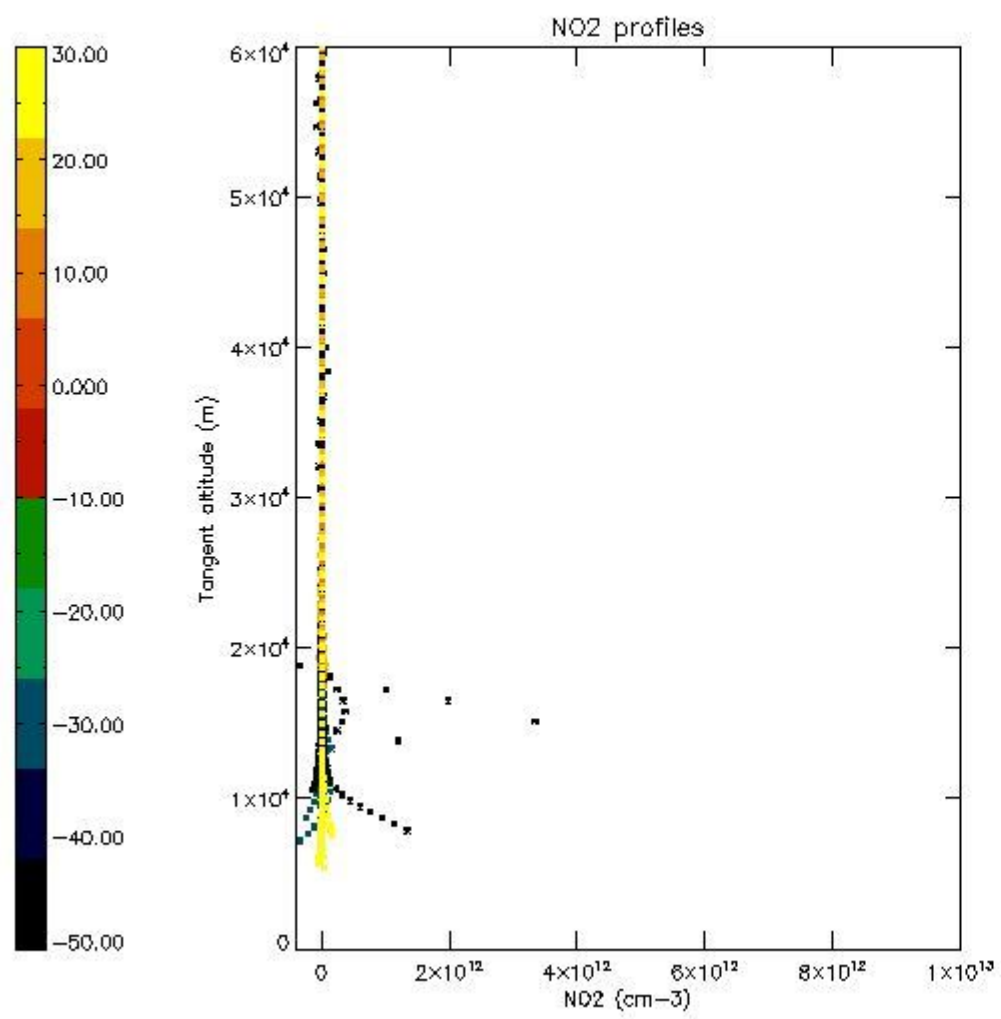
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



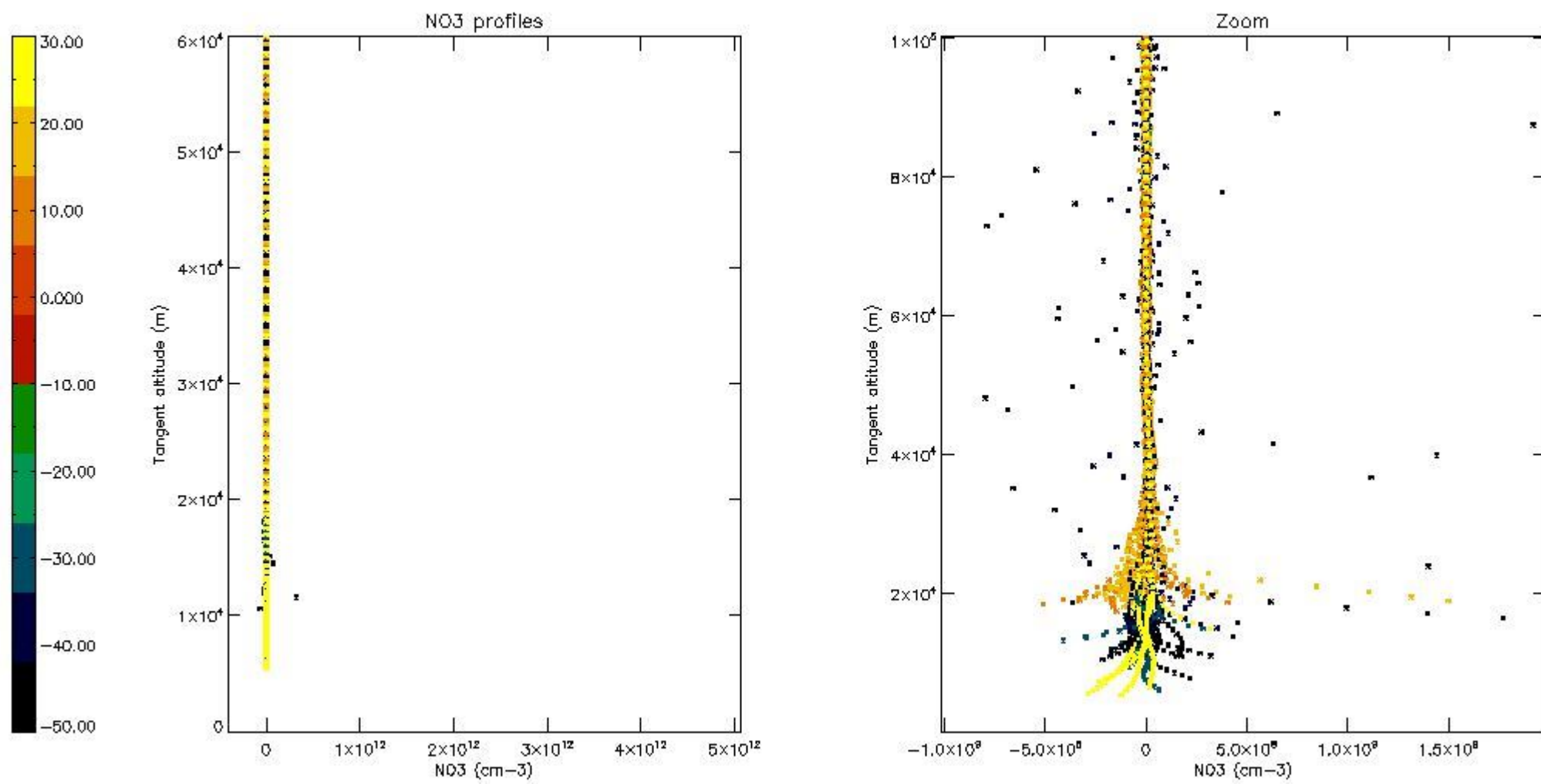
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



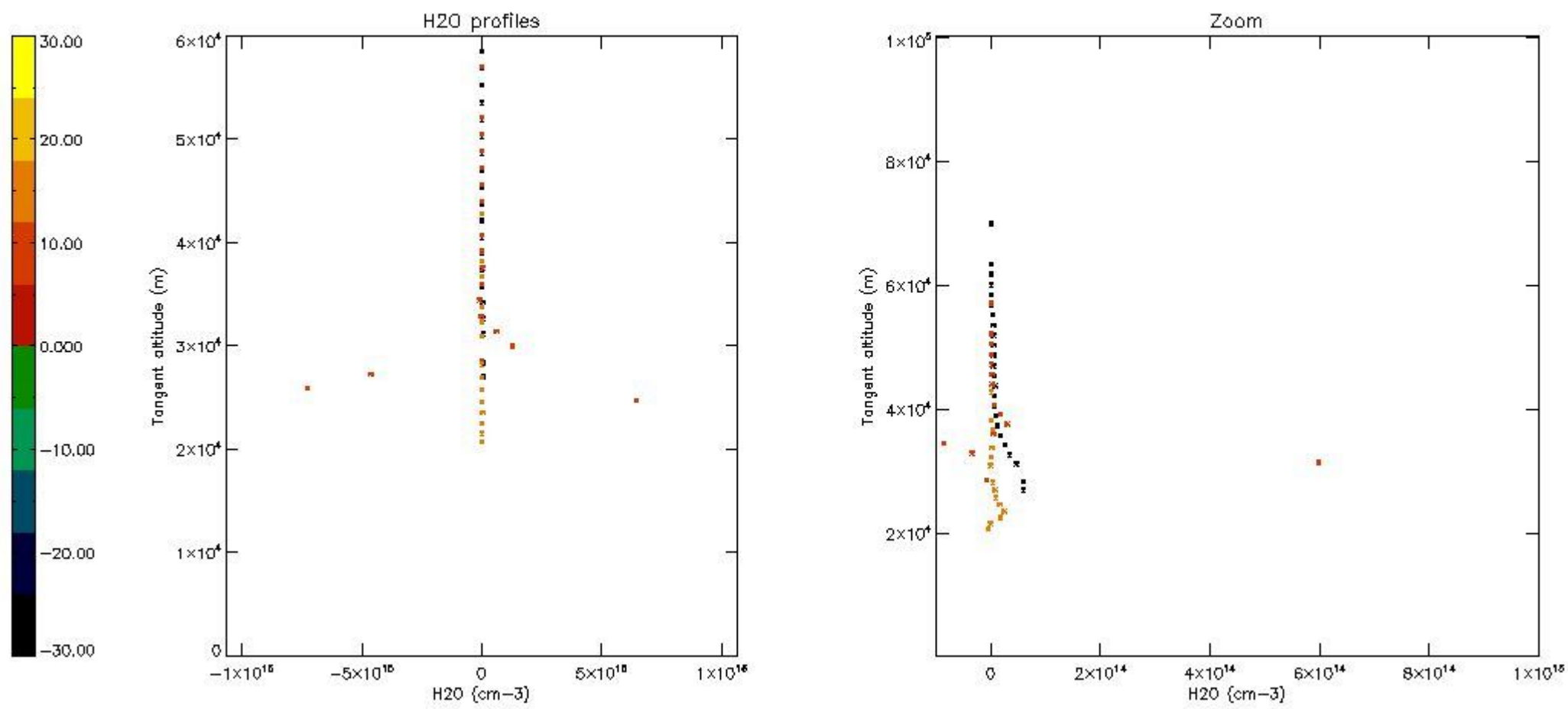
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-SEP-2006 00:02:53
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-SEP-2006 00:02:53
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-SEP-2006 00:02:53

GOMOS Level 2 Daily Report

SUMMARY

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Item	Value
Time of report generation	24APR2013 04:22:19
Data source version	GOMOS/6.01
Start time of products	22-09-2006 (22SEP2006 00:00:00)
Stop time of products	23-09-2006 (23SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	229
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

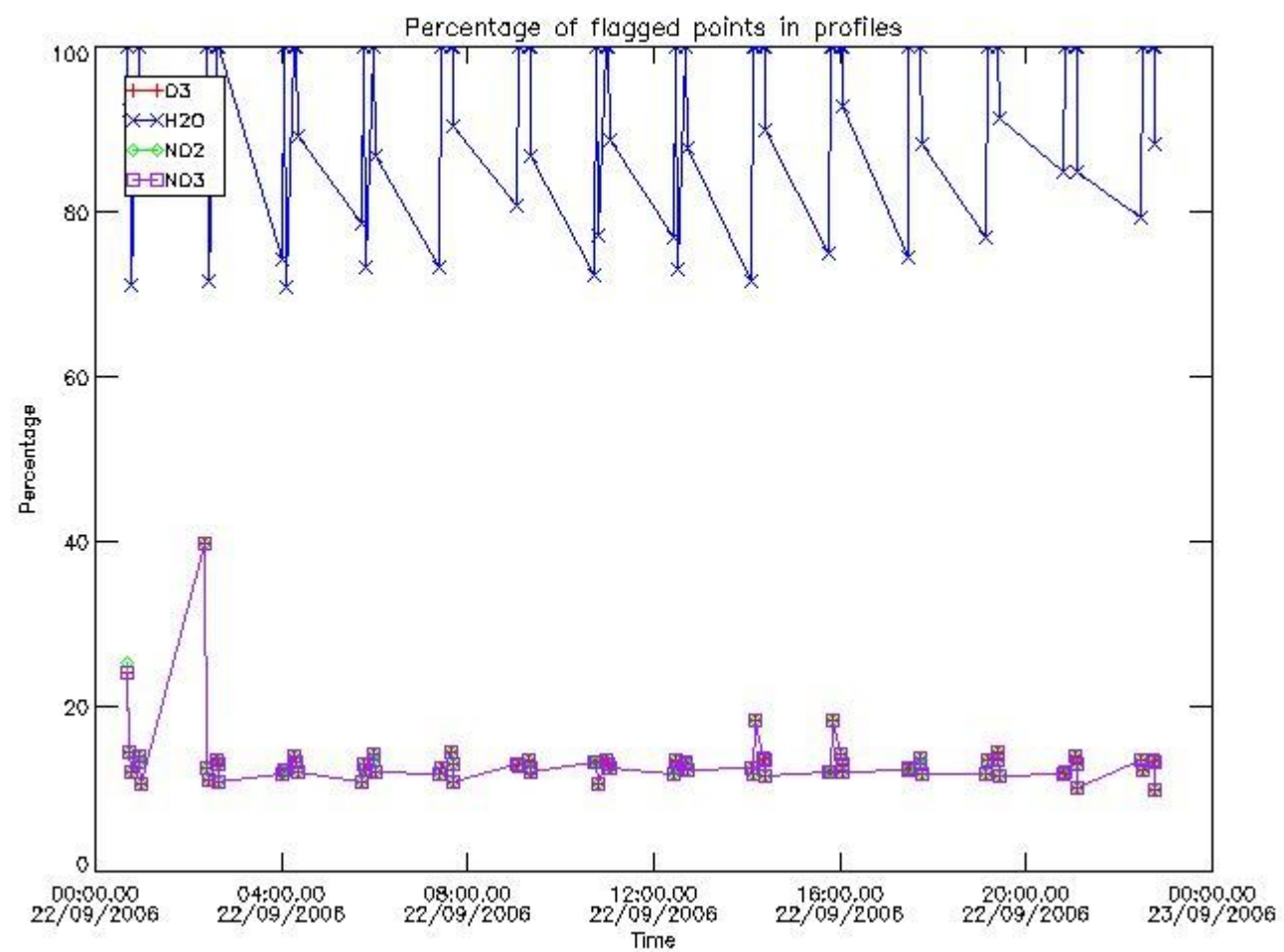
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060922_000253_000000362051_00245_23846_1984.N1	22-SEP-2006 00:02:53	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23846	No
2	GOM_NL__2PRFIN20060922_000416_000000362051_00245_23846_1985.N1	22-SEP-2006 00:04:16	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	23846	No
3	GOM_NL__2PRFIN20060922_001029_000000362051_00245_23846_1986.N1	22-SEP-2006 00:10:29	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	23846	No
4	GOM_NL__2PRFIN20060922_001157_000000342051_00245_23846_1987.N1	22-SEP-2006 00:11:57	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	23846	No
5	GOM_NL__2PRFIN20060922_004043_000000442051_00245_23846_1988.N1	22-SEP-2006 00:40:43	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	23846	No
6	GOM_NL__2PRFIN20060922_004255_000000392051_00245_23846_1989.N1	22-SEP-2006 00:42:55	Dark	39.000	34	Gam2Vel	1.7930	23000.	78	23846	No
7	GOM_NL__2PRFIN20060922_004535_000000422051_00245_23846_1990.N1	22-SEP-2006 00:45:35	Dark	42.000	41	Eps Car	1.8600	4100.0	84	23846	No
8	GOM_NL__2PRFIN20060922_005604_000000372051_00246_23847_1975.N1	22-SEP-2006 00:56:04	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	23847	No
9	GOM_NL__2PRFIN20060922_005736_000000392051_00246_23847_1976.N1	22-SEP-2006 00:57:36	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	23847	No
10	GOM_NL__2PRFIN20060922_005903_000000482051_00246_23847_1977.N1	22-SEP-2006 00:59:03	Dark	48.000	9	Alp Eri	0.45300	24000.	96	23847	No
11	GOM_NL__2PRFIN20060922_010501_000000432051_00246_23847_1978.N1	22-SEP-2006 01:05:01	Straylight	43.000	63	Bet Gru	2.1500	2800.0	86	23847	No
12	GOM_NL__2PRFIN20060922_010936_000000442051_00246_23847_1979.N1	22-SEP-2006 01:09:36	Straylight	43.500	18	24Alp PsA	1.1660	9700.0	87	23847	No
13	GOM_NL__2PRFIN20060922_011816_000000372051_00246_23847_1980.N1	22-SEP-2006 01:18:16	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	23847	No
14	GOM_NL__2PRFIN20060922_012119_000000372051_00246_23847_1981.N1	22-SEP-2006 01:21:19	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	23847	No
15	GOM_NL__2PRFIN20060922_012643_000000372051_00246_23847_1982.N1	22-SEP-2006 01:26:43	Bright	36.500	164	44Eta Peg	2.9480	5400.0	73	23847	No
16	GOM_NL__2PRFIN20060922_013558_000000362051_00246_23847_1983.N1	22-SEP-2006 01:35:58	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	23847	No
17	GOM_NL__2PRFIN20060922_014329_000000362051_00246_23847_1984.N1	22-SEP-2006 01:43:29	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23847	No
18	GOM_NL__2PRFIN20060922_014452_000000522051_00246_23847_1985.N1	22-SEP-2006 01:44:52	Bright	51.500	60	7Bet UMi	2.0810	3950.0	103	23847	No
19	GOM_NL__2PRFIN20060922_015105_000000362051_00246_23847_1986.N1	22-SEP-2006 01:51:05	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	23847	No
20	GOM_NL__2PRFIN20060922_015233_000000352051_00246_23847_1987.N1	22-SEP-2006 01:52:33	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	23847	No
21	GOM_NL__2PRFIN20060922_022119_000000452051_00246_23847_1988.N1	22-SEP-2006 02:21:19	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	23847	No
22	GOM_NL__2PRFIN20060922_022331_000000412051_00246_23847_1989.N1	22-SEP-2006 02:23:31	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	23847	No
23	GOM_NL__2PRFIN20060922_022611_000000462051_00246_23847_1990.N1	22-SEP-2006 02:26:11	Dark	46.000	41	Eps Car	1.8600	4100.0	92	23847	No
24	GOM_NL__2PRFIN20060922_023640_000000382051_00247_23848_1975.N1	22-SEP-2006 02:36:40	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	23848	No
25	GOM_NL__2PRFIN20060922_023812_000000402051_00247_23848_1976.N1	22-SEP-2006 02:38:12	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	23848	No
26	GOM_NL__2PRFIN20060922_023939_000000472051_00247_23848_1977.N1	22-SEP-2006 02:39:39	Dark	46.500	9	Alp Eri	0.45300	24000.	93	23848	No
27	GOM_NL__2PRFIN20060922_024537_000000412051_00247_23848_1978.N1	22-SEP-2006 02:45:37	Straylight	40.500	63	Bet Gru	2.1500	2800.0	81	23848	No
28	GOM_NL__2PRFIN20060922_025012_000000452051_00247_23848_1979.N1	22-SEP-2006 02:50:12	Straylight	44.500	18	24Alp PsA	1.1660	9700.0	89	23848	No
29	GOM_NL__2PRFIN20060922_025852_000000372051_00247_23848_1980.N1	22-SEP-2006 02:58:52	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	23848	No
30	GOM_NL__2PRFIN20060922_030155_000000382051_00247_23848_1981.N1	22-SEP-2006 03:01:55	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23848	No
31	GOM_NL__2PRFIN20060922_030719_000000382051_00247_23848_1982.N1	22-SEP-2006 03:07:19	Bright	37.500	164	44Eta Peg	2.9480	5400.0	75	23848	No
32	GOM_NL__2PRFIN20060922_031634_000000352051_00247_23848_1983.N1	22-SEP-2006 03:16:34	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	23848	No
33	GOM_NL__2PRFIN20060922_032405_000000342051_00247_23848_1984.N1	22-SEP-2006 03:24:05	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	23848	No
34	GOM_NL__2PRFIN20060922_032528_000000502051_00247_23848_1985.N1	22-SEP-2006 03:25:28	Bright	49.500	60	7Bet UMi	2.0810	3950.0	99	23848	No
35	GOM_NL__2PRFIN20060922_033141_000000362051_00247_23848_1986.N1	22-SEP-2006 03:31:41	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	23848	No
36	GOM_NL__2PRFIN20060922_033309_000000362051_00247_23848_1987.N1	22-SEP-2006 03:33:09	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	23848	No
37	GOM_NL__2PRFIN20060922_040156_000000432051_00247_23848_1988.N1	22-SEP-2006 04:01:56	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	23848	No
38	GOM_NL__2PRFIN20060922_040408_000000422051_00247_23848_1989.N1	22-SEP-2006 04:04:08	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	23848	No
39	GOM_NL__2PRFIN20060922_040648_000000422051_00247_23848_1990.N1	22-SEP-2006 04:06:48	Dark	41.500	41	Eps Car	1.8600	4100.0	83	23848	No
40	GOM_NL__2PRFIN20060922_041716_000000372051_00248_23849_1975.N1	22-SEP-2006 04:17:16	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	23849	No
41	GOM_NL__2PRFIN20060922_041849_000000392051_00248_23849_1976.N1	22-SEP-2006 04:18:49	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	23849	No
42	GOM_NL__2PRFIN20060922_042016_000000422051_00248_23849_1977.N1	22-SEP-2006 04:20:16	Dark	42.000	9	Alp Eri	0.45300	24000.	84	23849	No

220	GOM_NL__2PRFIN20060922_225726_000000432051_00259_23860_2003.N1	22-SEP-2006 22:57:26	Straylight	42.500	18	24Alp PsA	1.1660	9700.0	85	23860	No
221	GOM_NL__2PRFIN20060922_230605_000000362051_00259_23860_2004.N1	22-SEP-2006 23:06:05	Bright	35.500	162	34Alp Aqr	2.9440	5350.0	71	23860	No
222	GOM_NL__2PRFIN20060922_230909_000000382051_00259_23860_2005.N1	22-SEP-2006 23:09:09	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23860	No
223	GOM_NL__2PRFIN20060922_231430_000000362051_00259_23860_2006.N1	22-SEP-2006 23:14:30	Bright	36.000	164	44Eta Peg	2.9480	5400.0	72	23860	No
224	GOM_NL__2PRFIN20060922_232346_000000522051_00259_23860_2007.N1	22-SEP-2006 23:23:46	Bright	52.000	89	5Alp Cep	2.4510	8000.0	104	23860	No
225	GOM_NL__2PRFIN20060922_233116_000000342051_00259_23860_2008.N1	22-SEP-2006 23:31:16	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	23860	No
226	GOM_NL__2PRFIN20060922_233244_000000342051_00259_23860_2009.N1	22-SEP-2006 23:32:44	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	23860	No
227	GOM_NL__2PRFIN20060922_233855_000000372051_00259_23860_2010.N1	22-SEP-2006 23:38:55	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	23860	No
228	GOM_NL__2PRFIN20060922_234023_000000352051_00259_23860_2011.N1	22-SEP-2006 23:40:23	Bright	34.500	82	48Bet UMa	2.3650	10600.0	69	23860	No
229	GOM_NL__2PRFIN20060922_234332_000000352051_00259_23860_2012.N1	22-SEP-2006 23:43:32	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	23860	No

3. Quality information per product

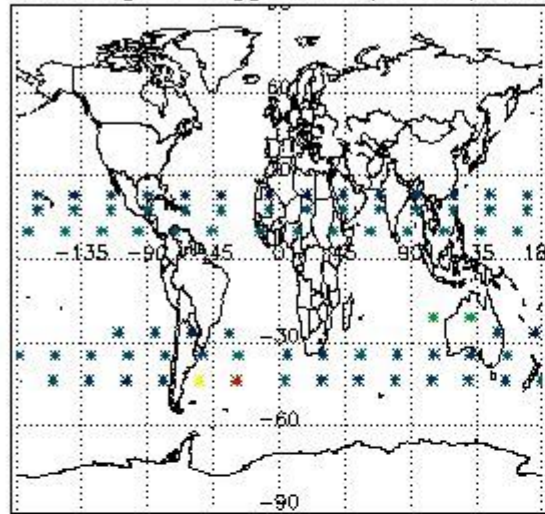
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

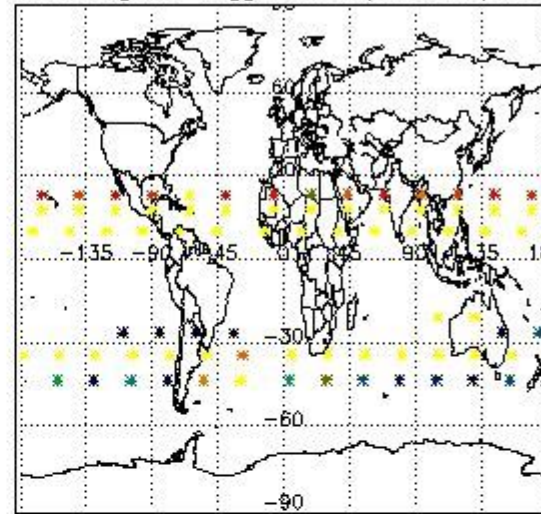


3.2 Plot quality information per product (world map)

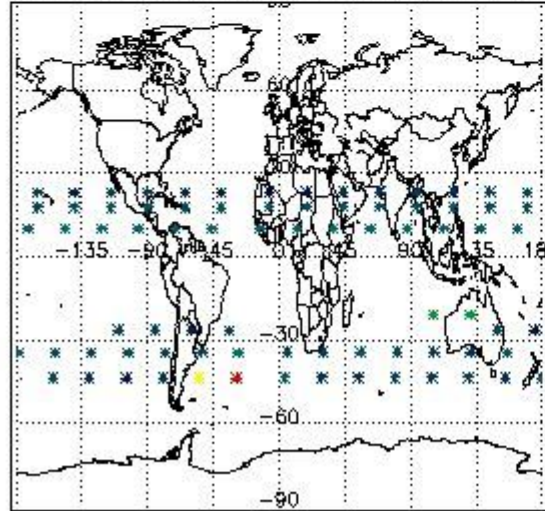
Percentage of flagged data per O3 profile



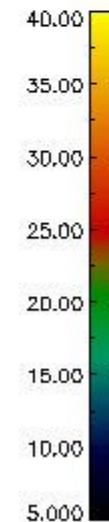
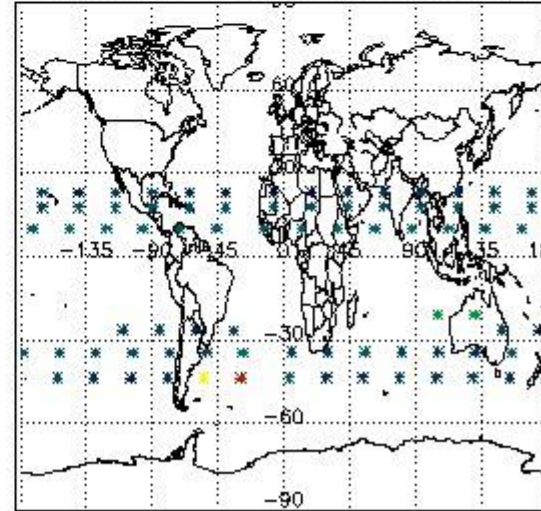
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

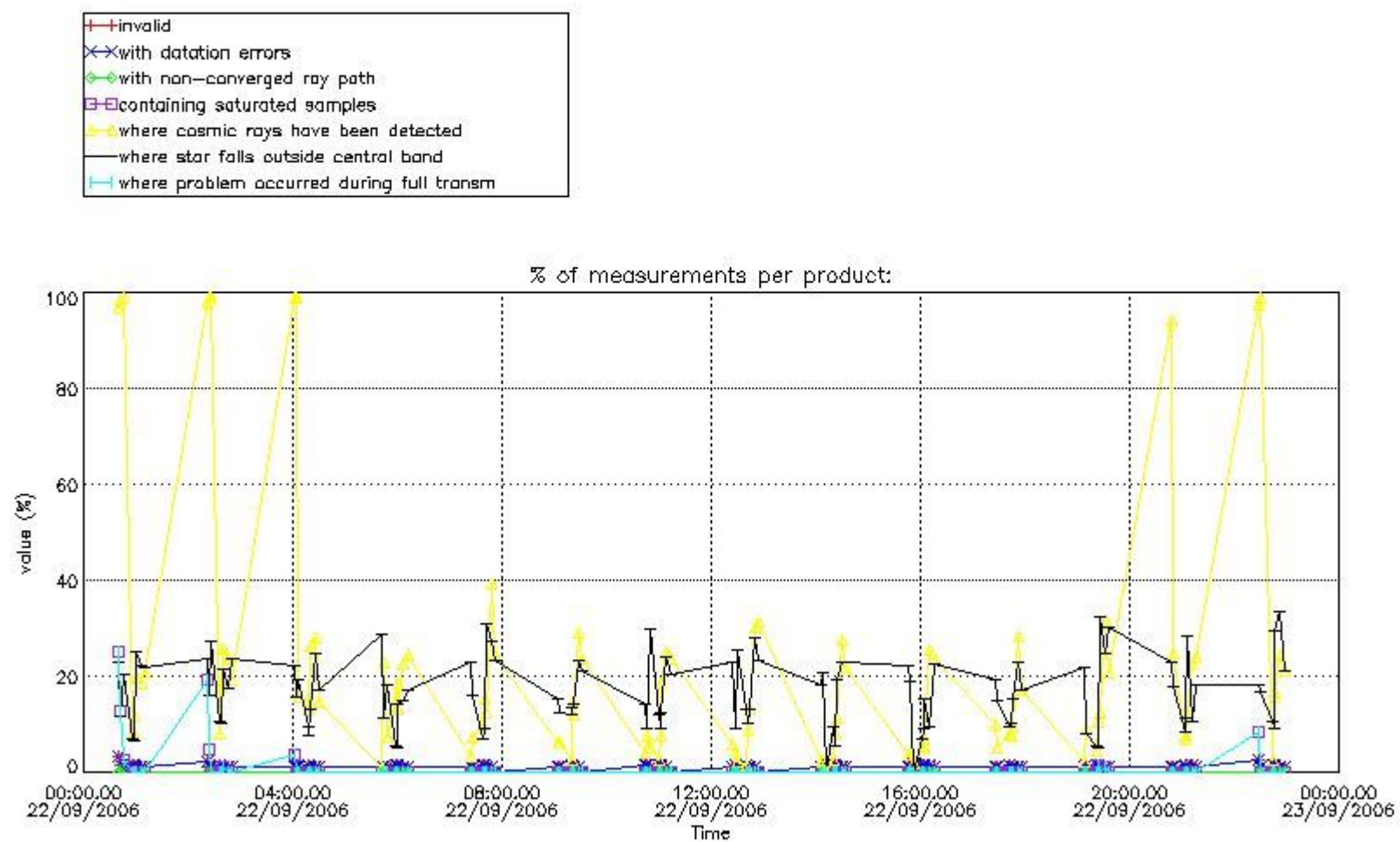


4. Level 1 quality information per product

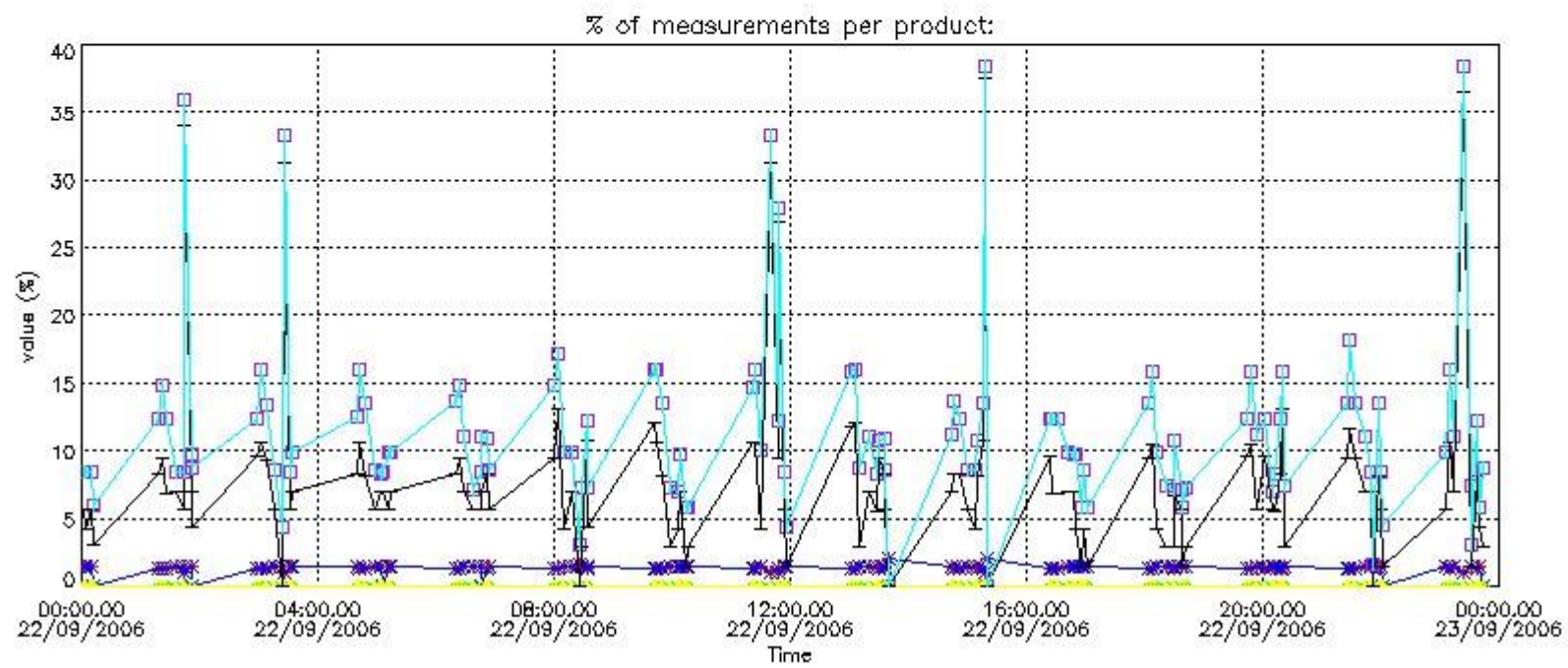
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

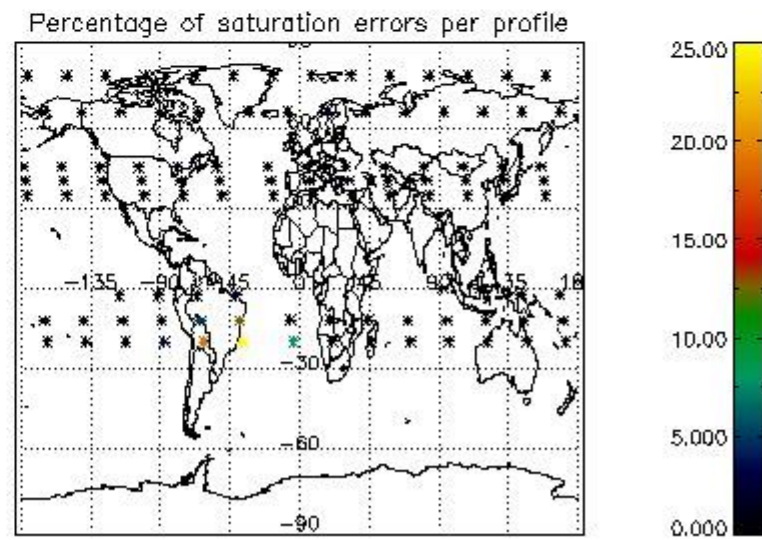
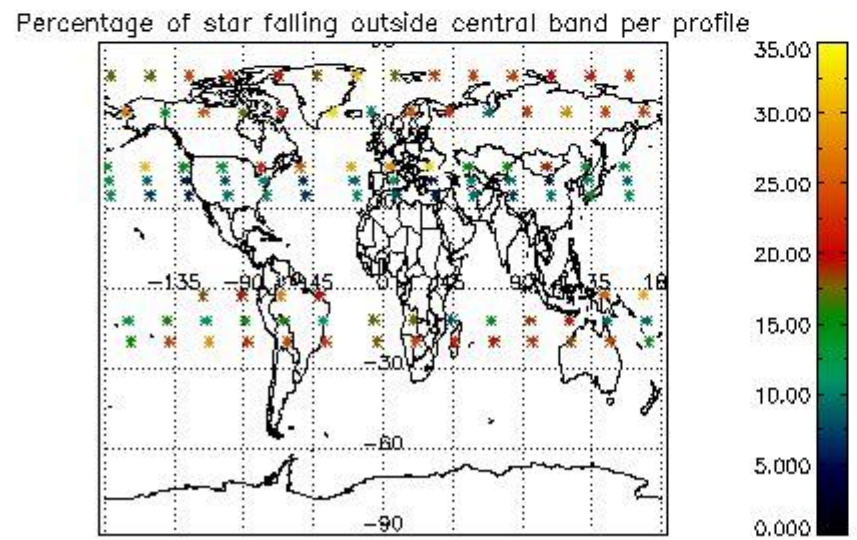
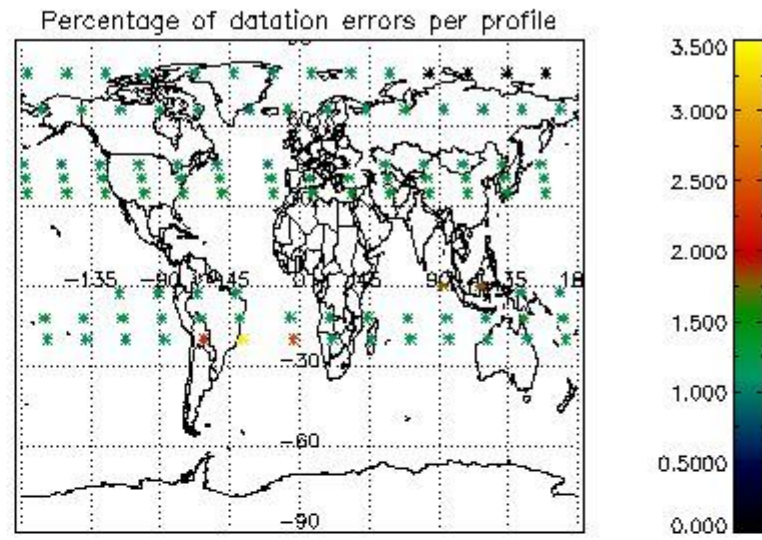
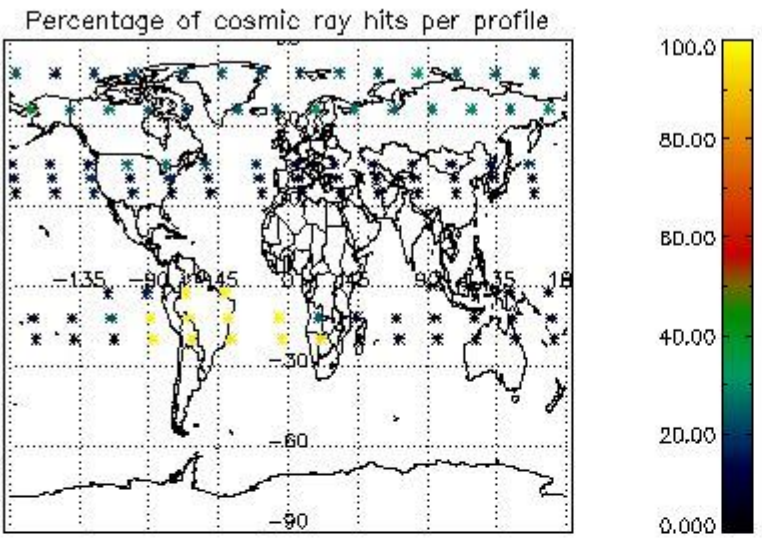


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

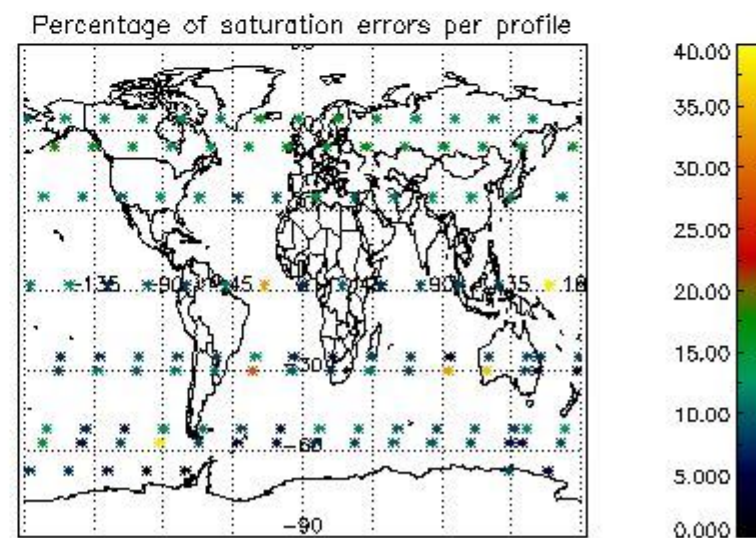
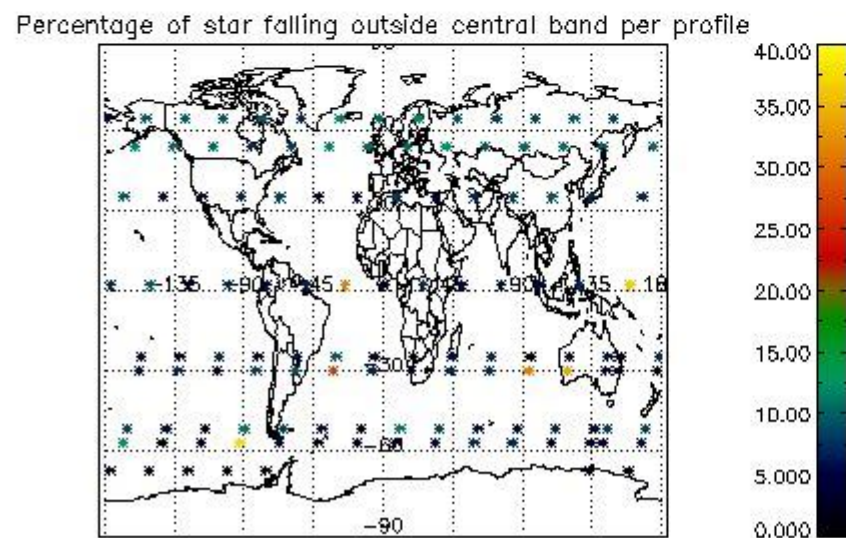
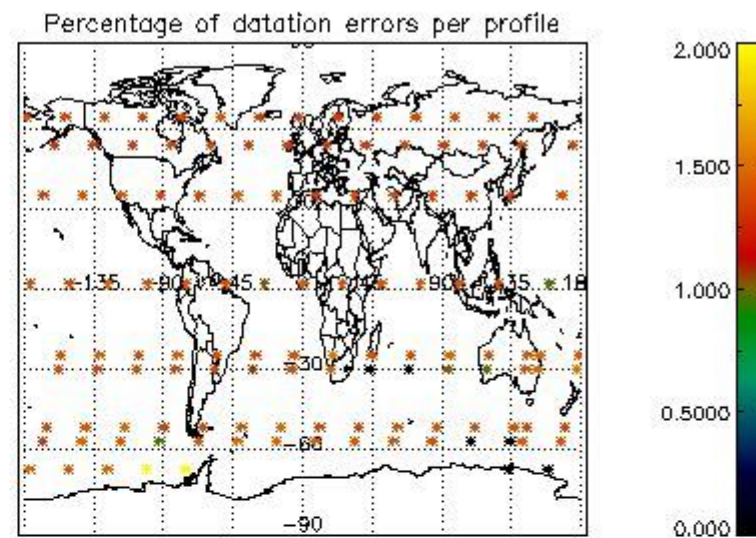
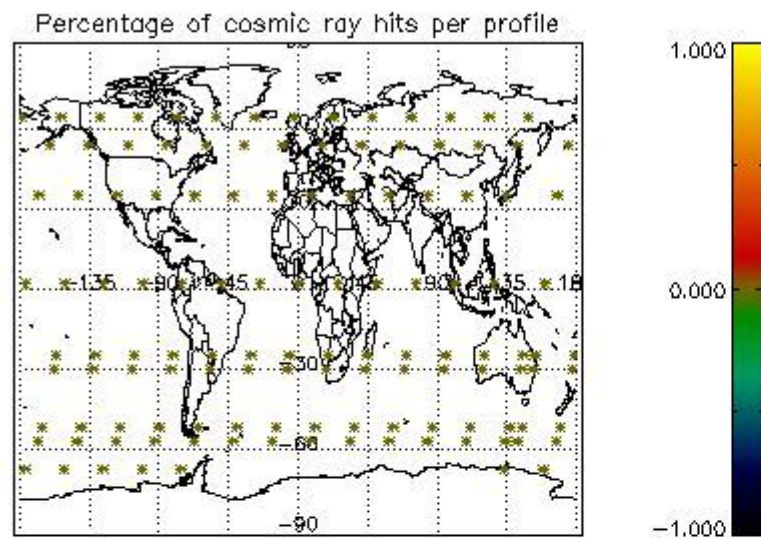


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

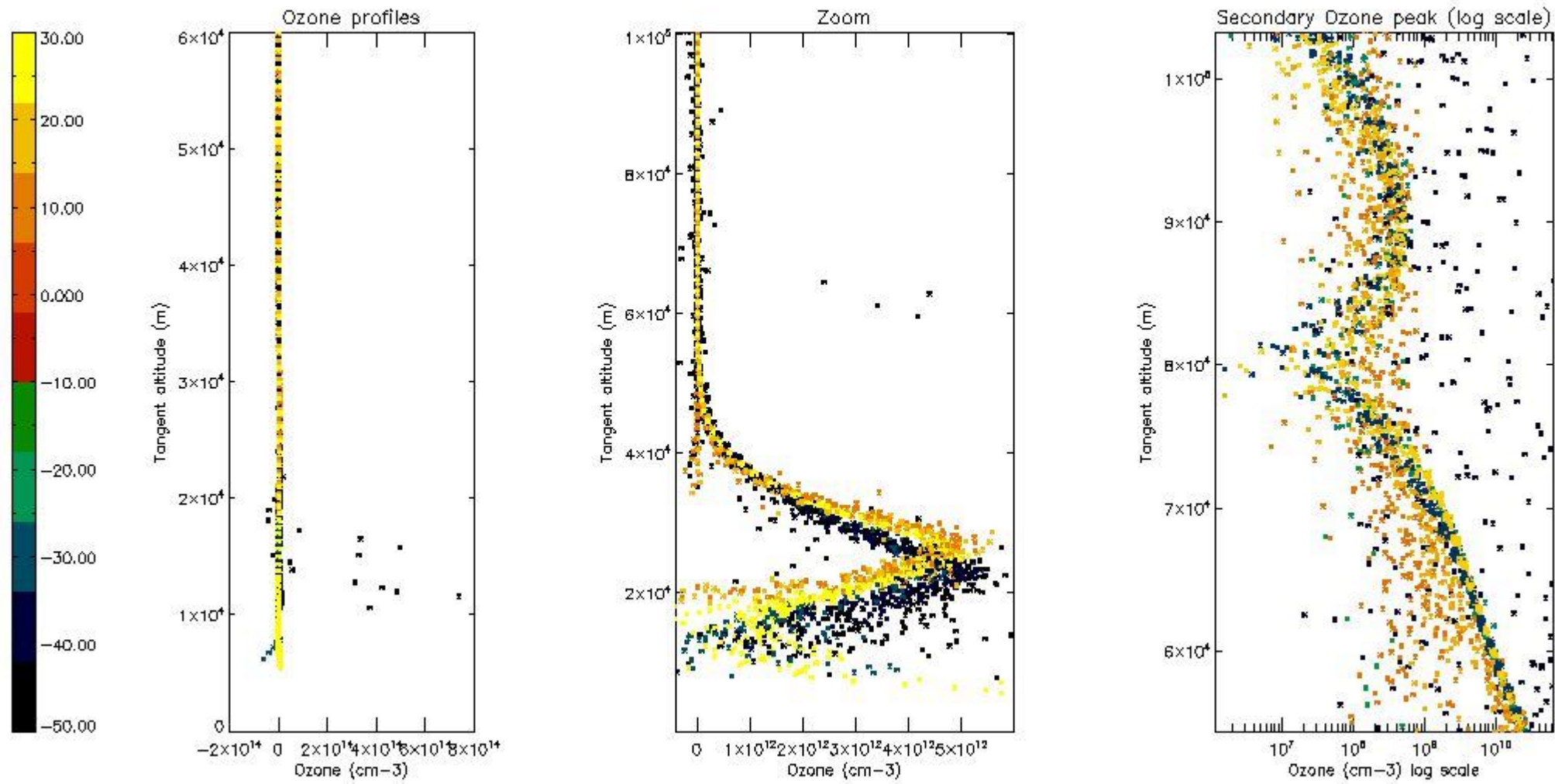
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	19

STD < 10	14
STD < 5	8

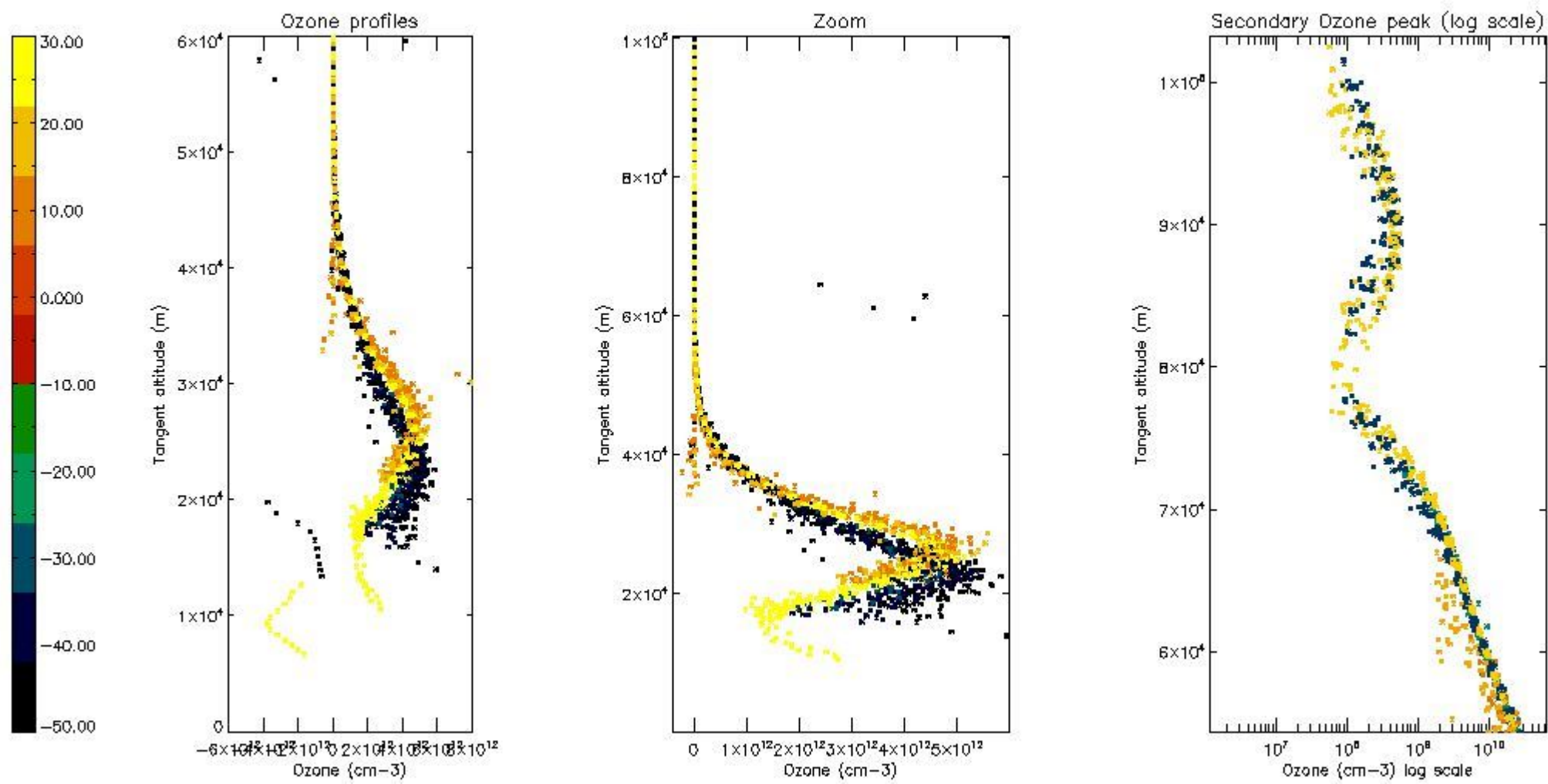
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



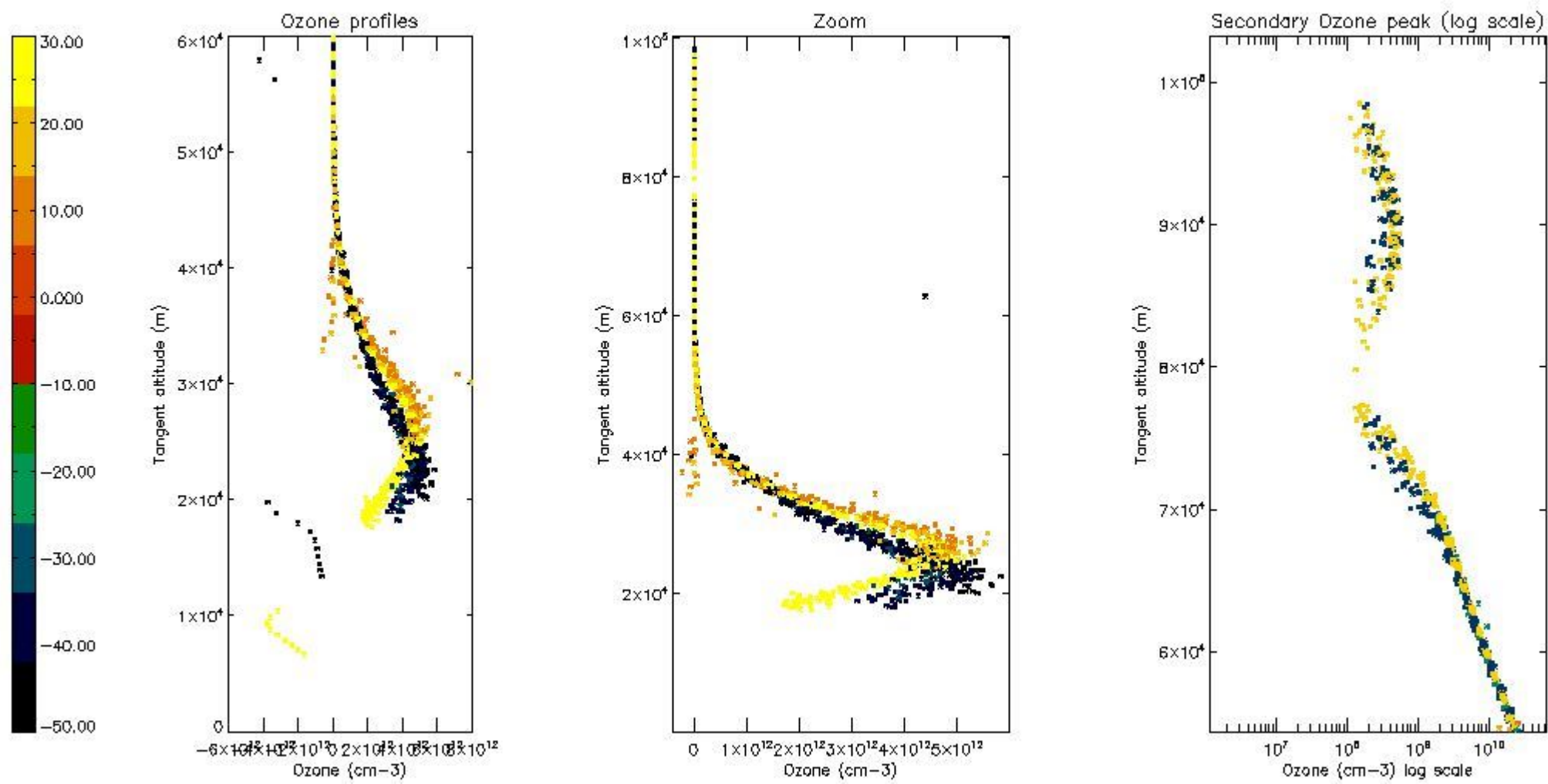
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



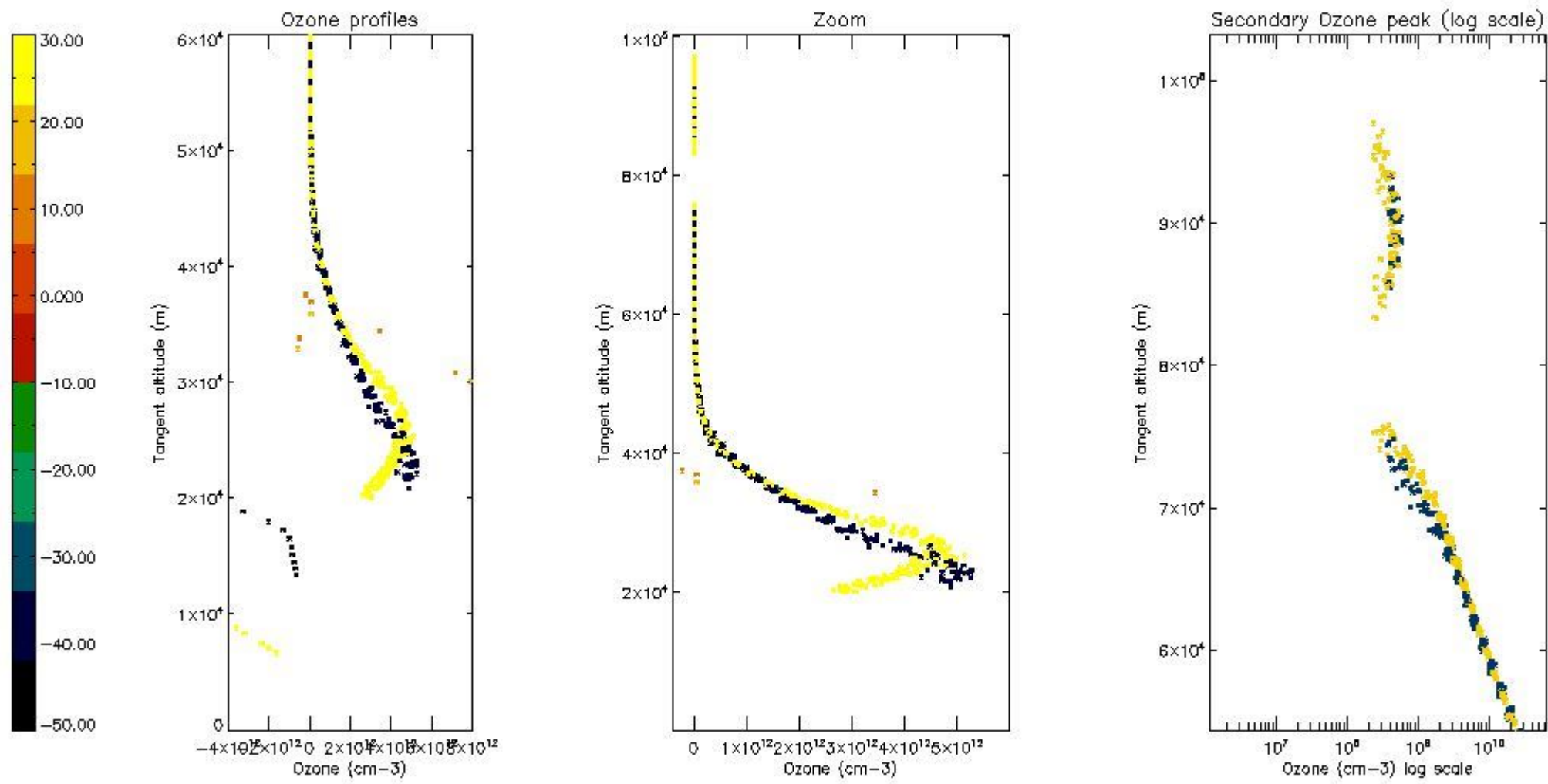
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



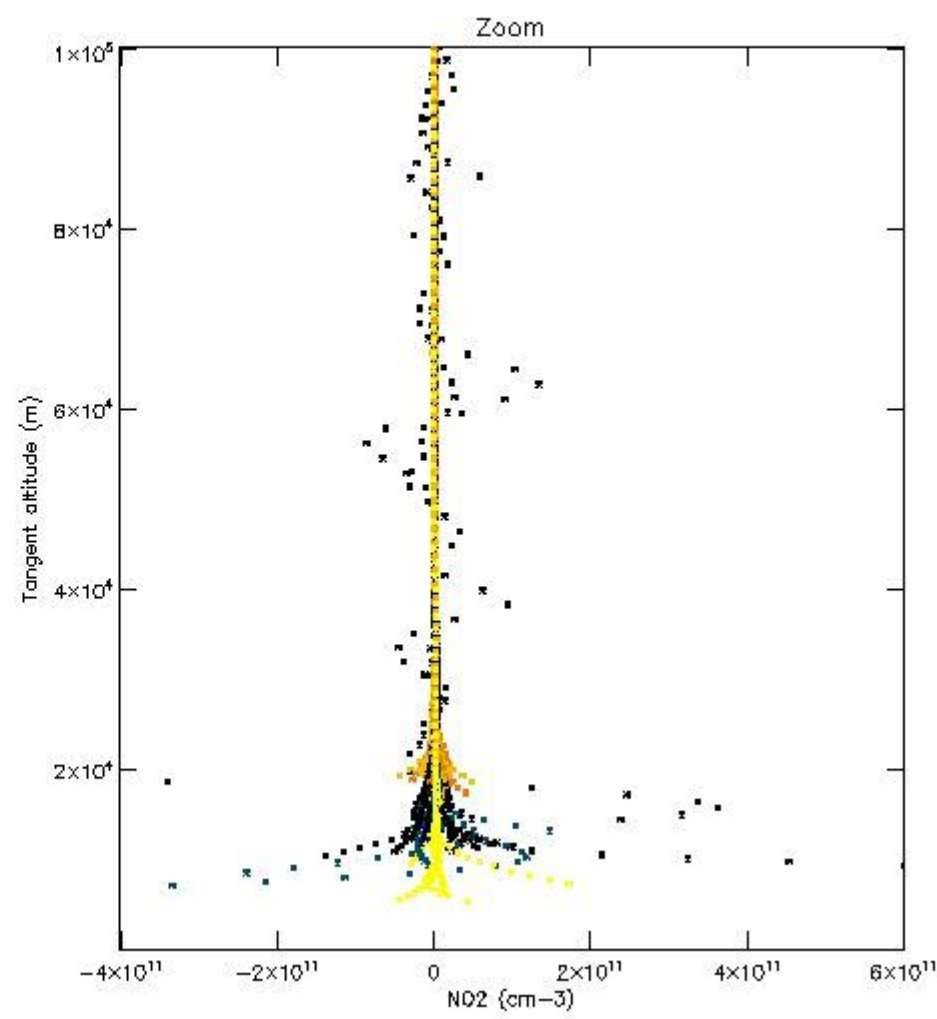
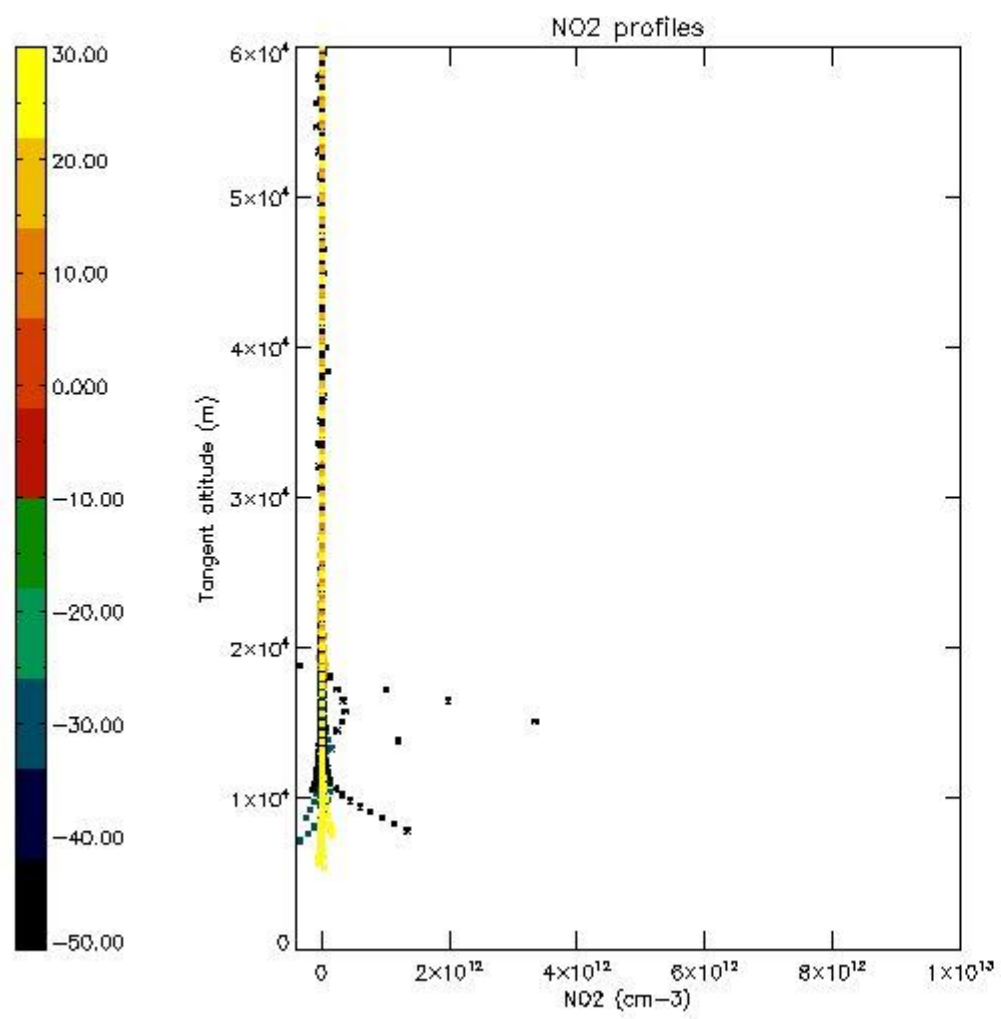
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



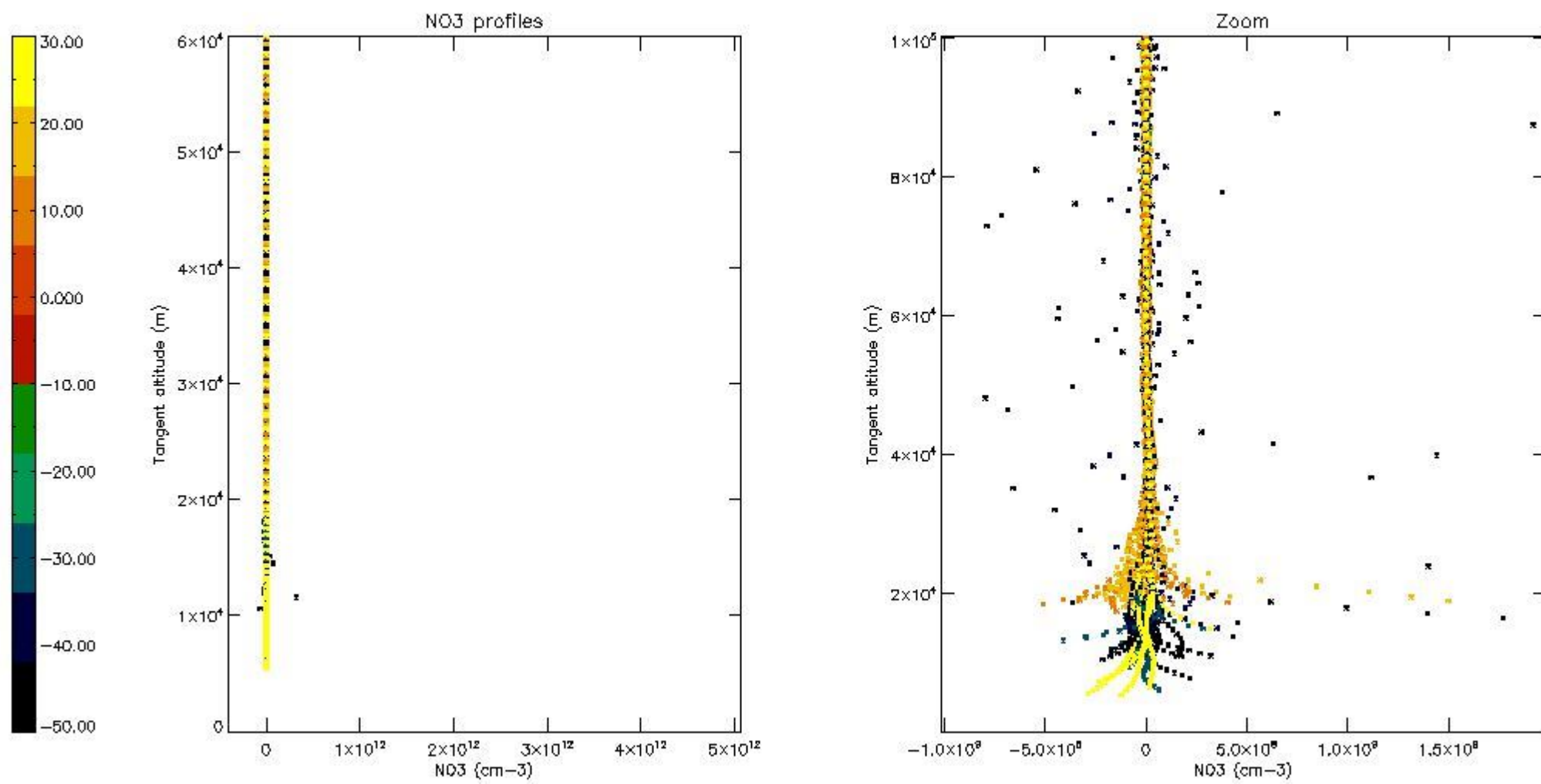
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



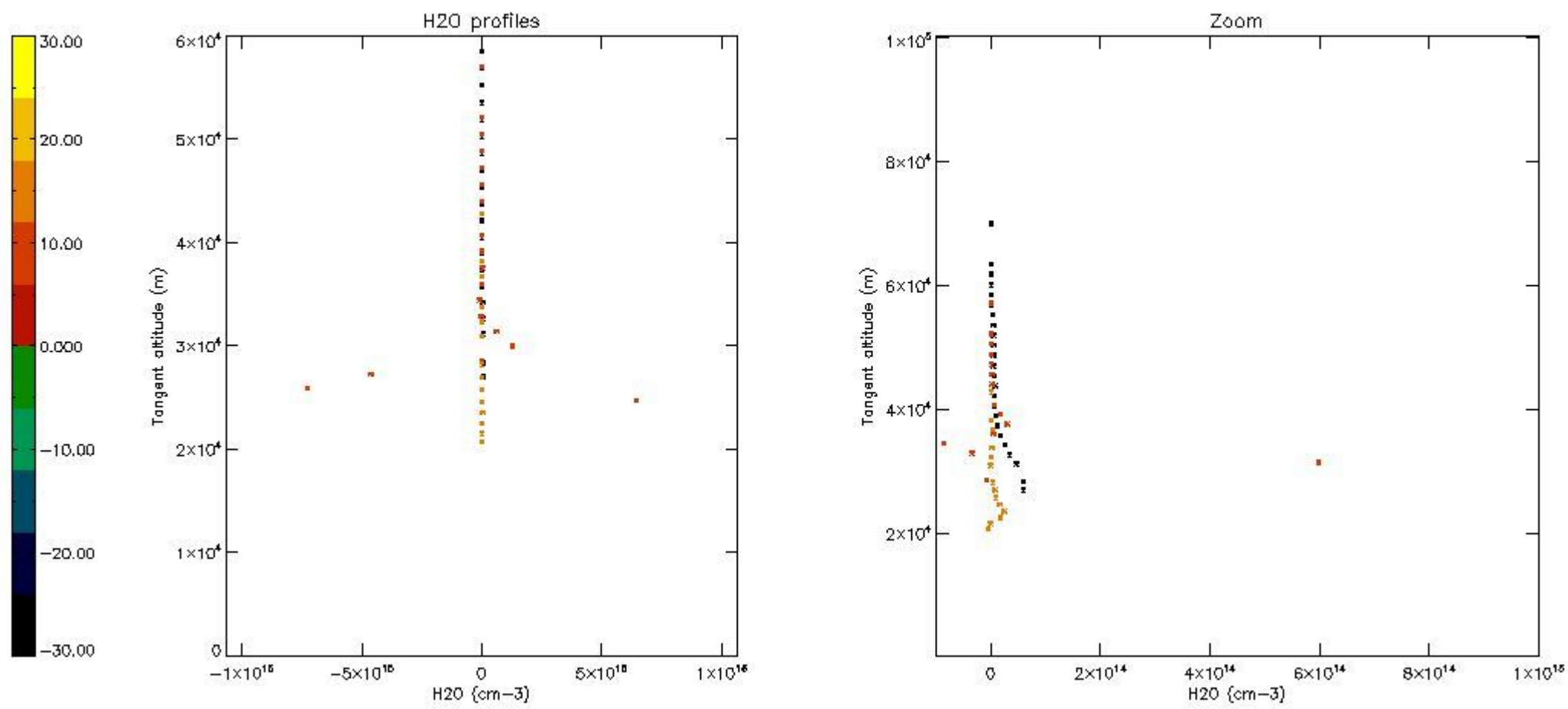
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

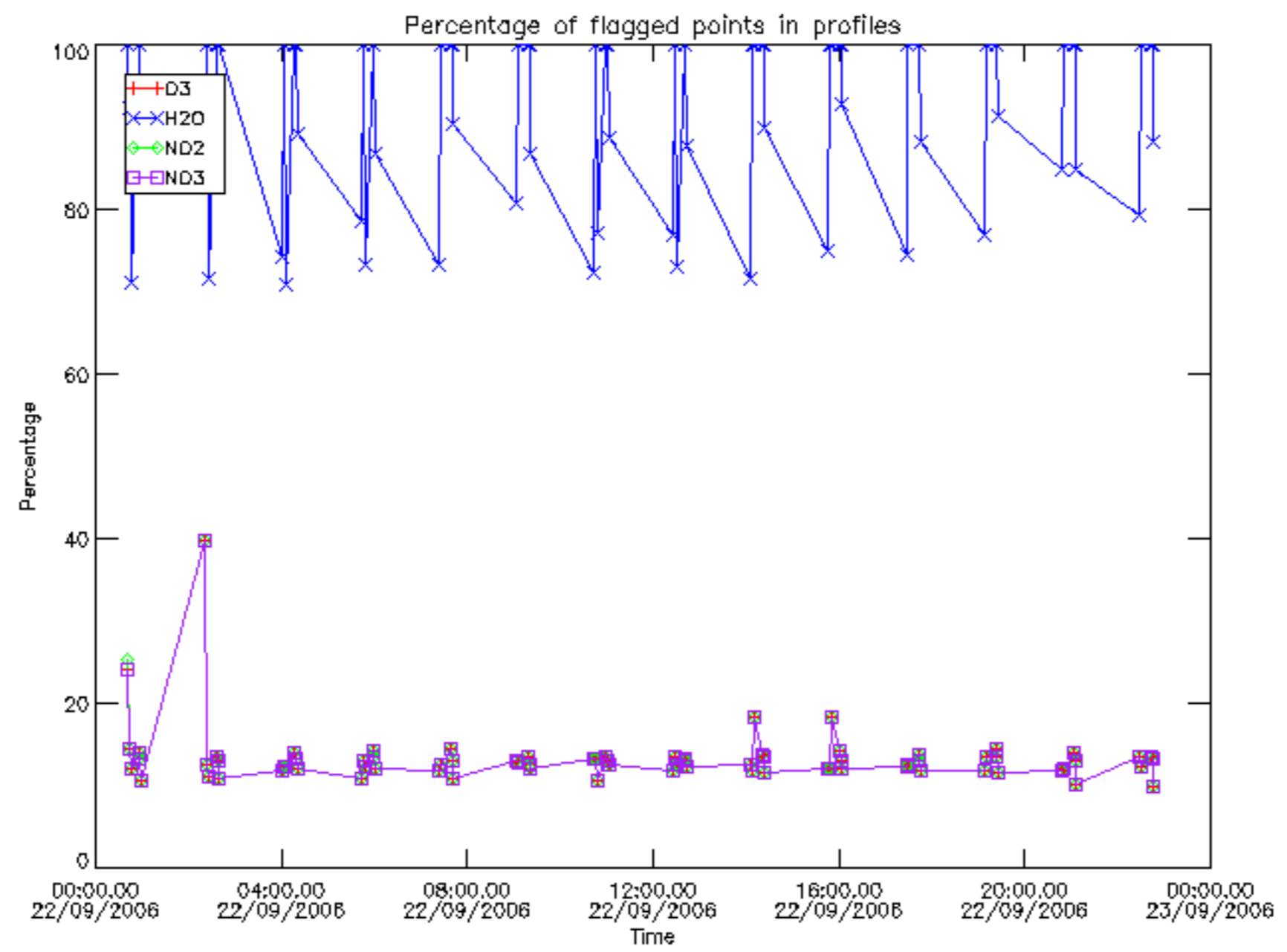
The colorbar represents the latitude.



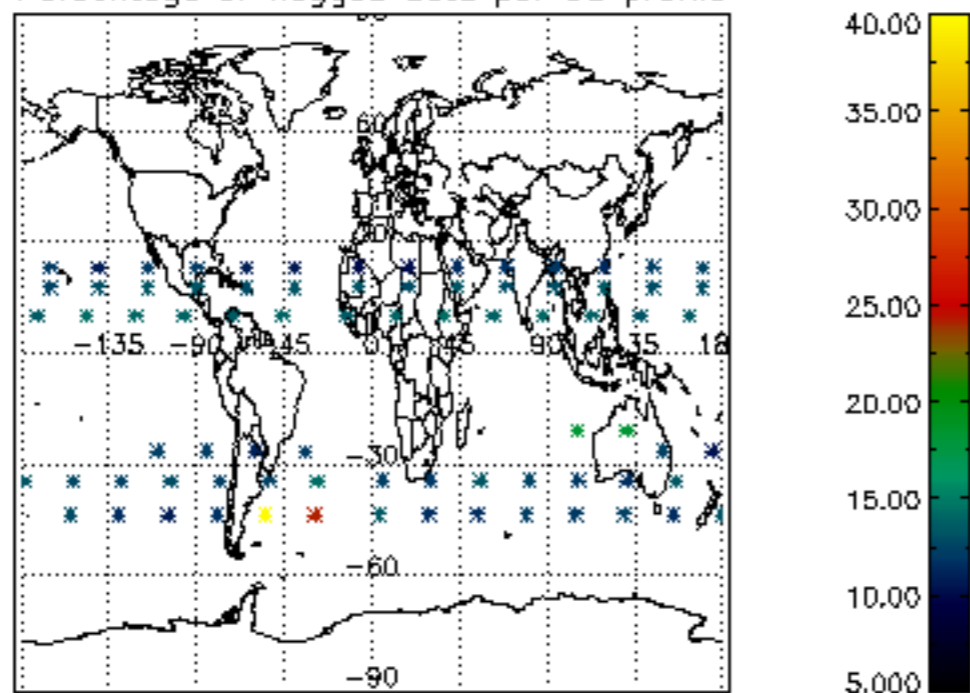
6. Auxiliary Data Files used for the production reported in section 2

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

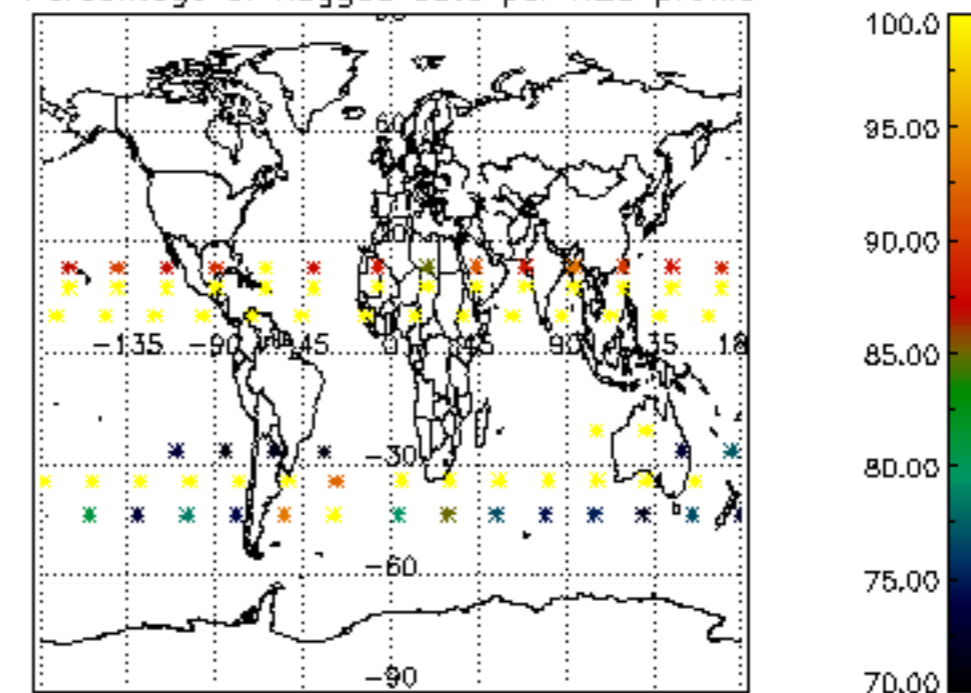
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-SEP-2006 00:02:53
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-SEP-2006 00:02:53
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-SEP-2006 00:02:53



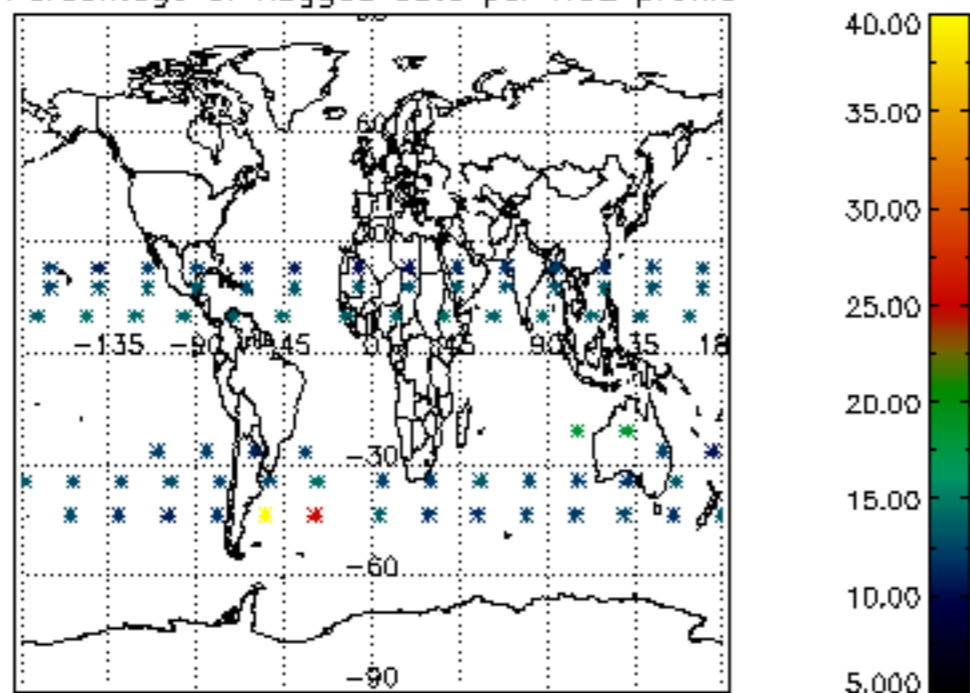
Percentage of flagged data per D3 profile



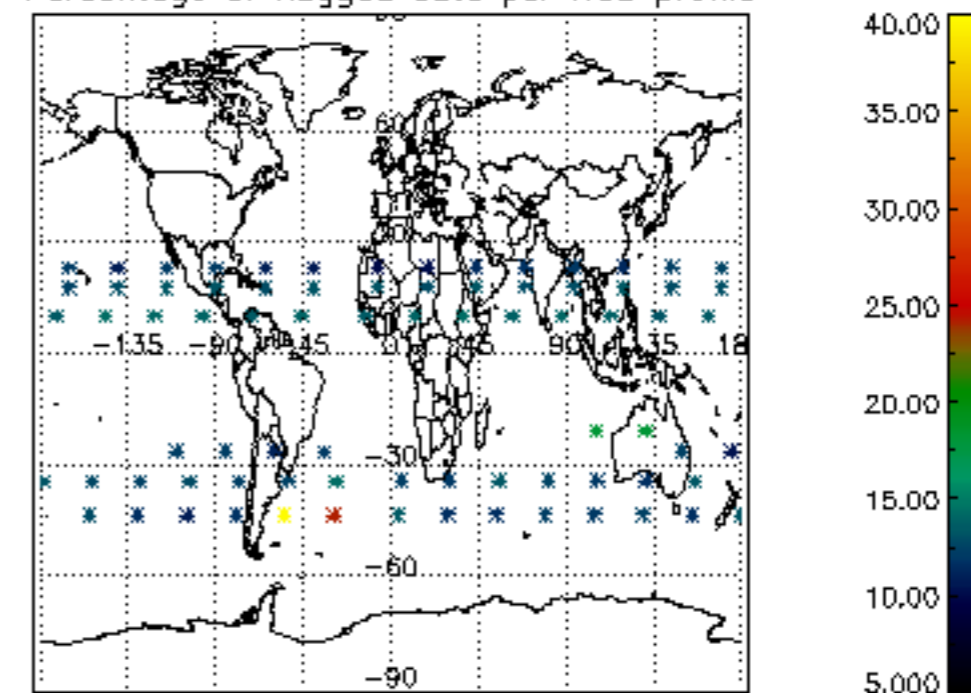
Percentage of flagged data per H2O profile

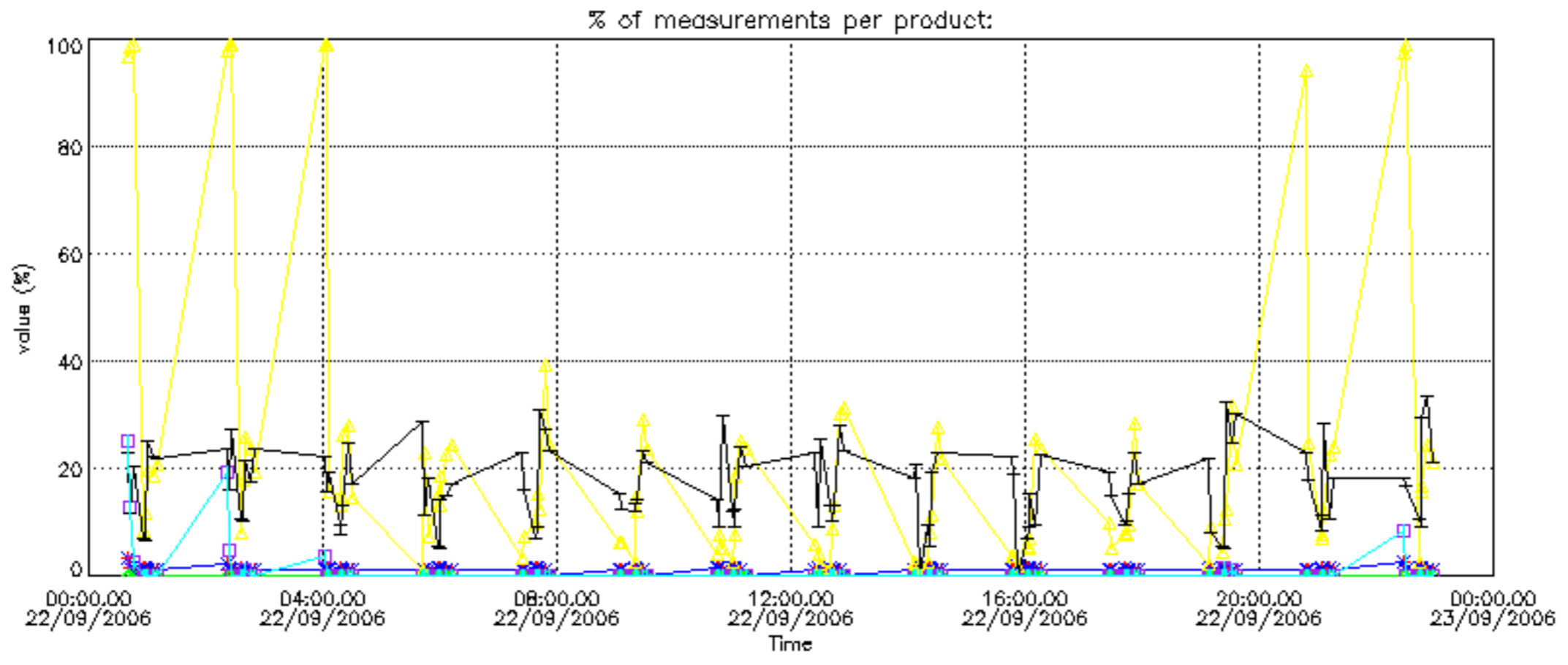


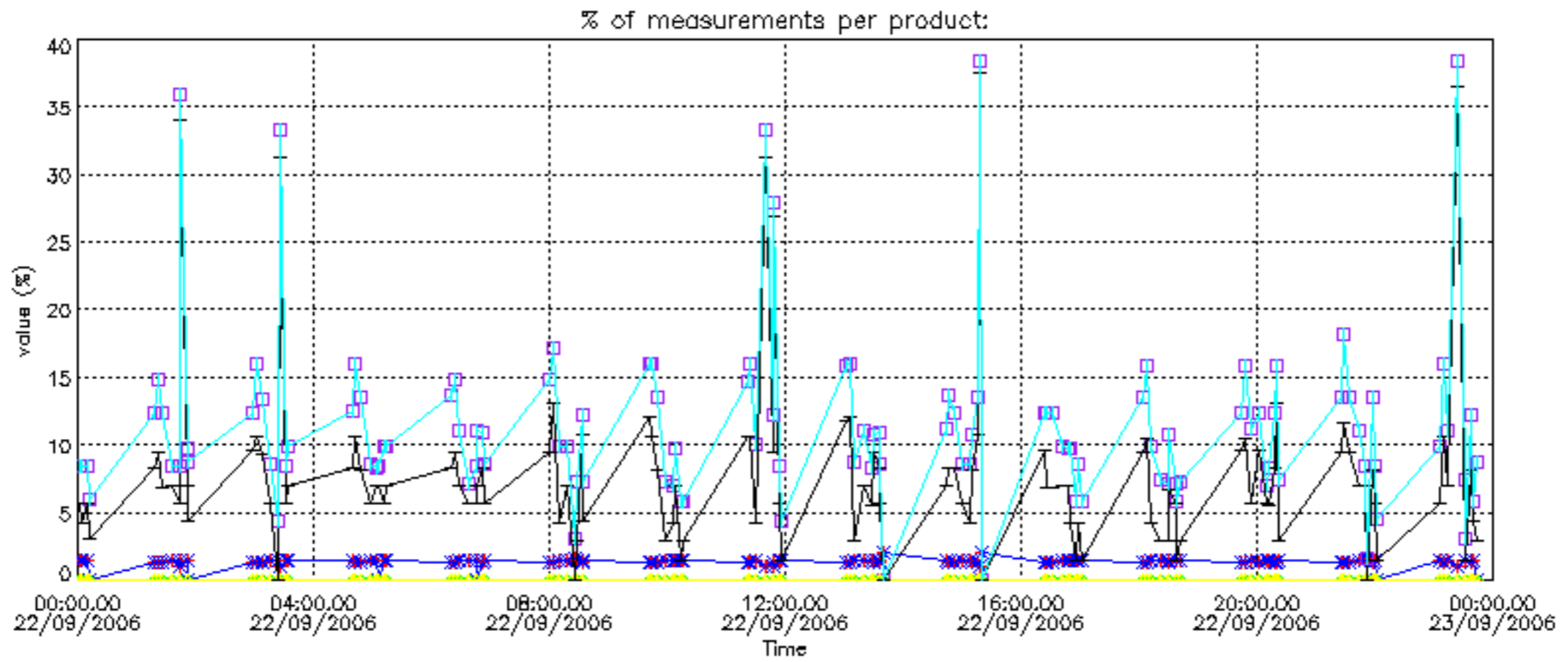
Percentage of flagged data per NO2 profile



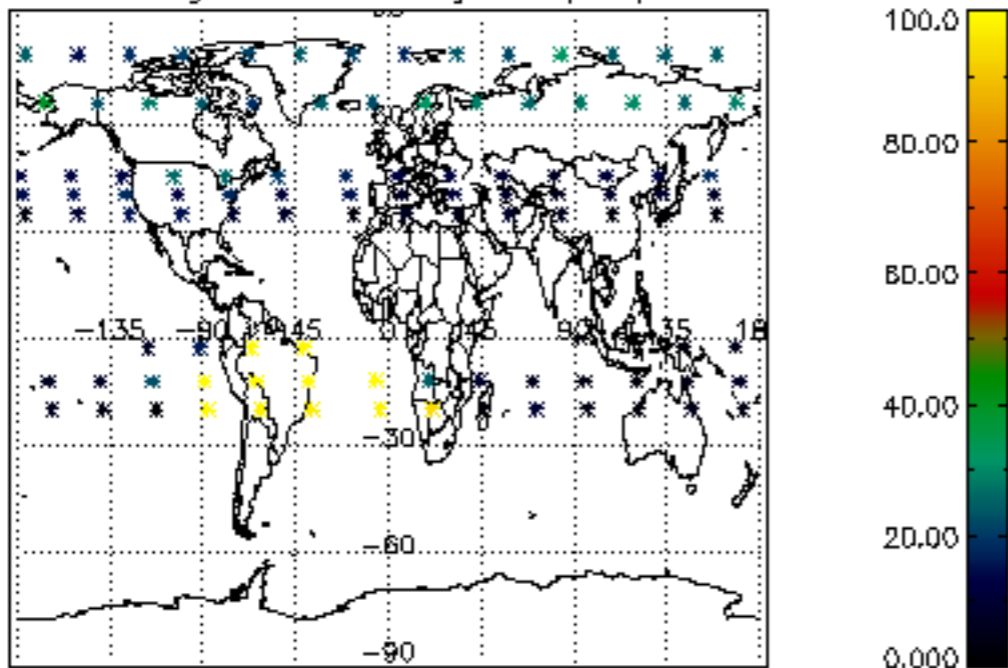
Percentage of flagged data per NO3 profile



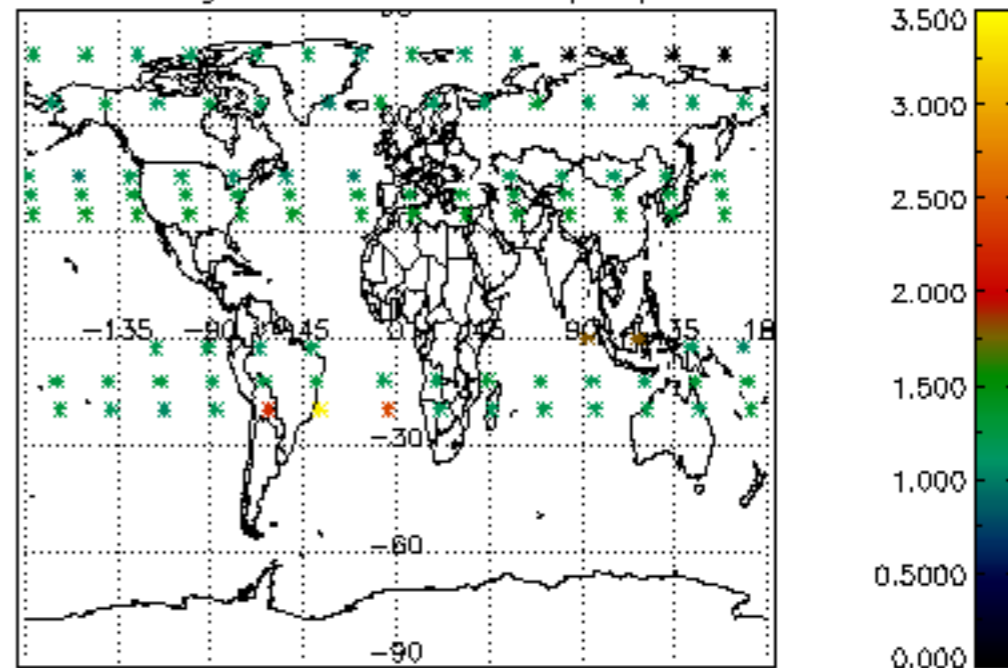




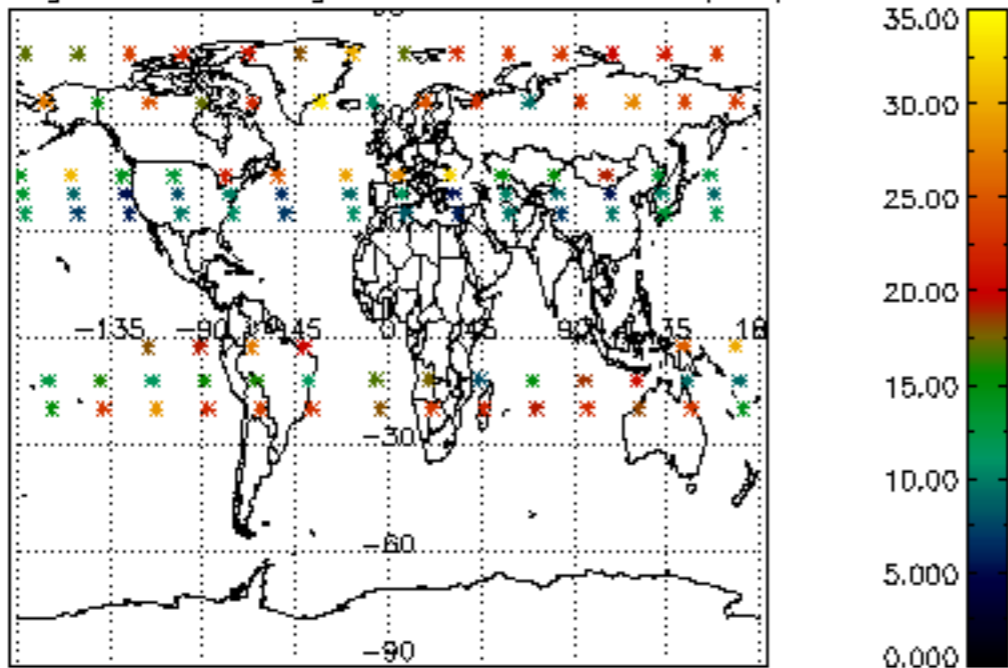
Percentage of cosmic ray hits per profile



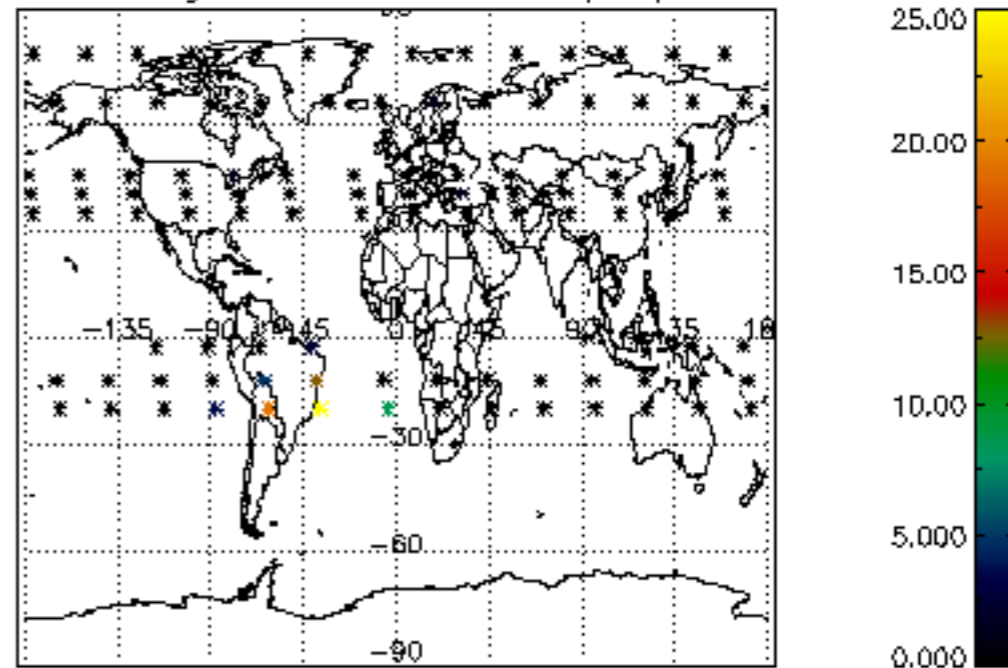
Percentage of datation errors per profile



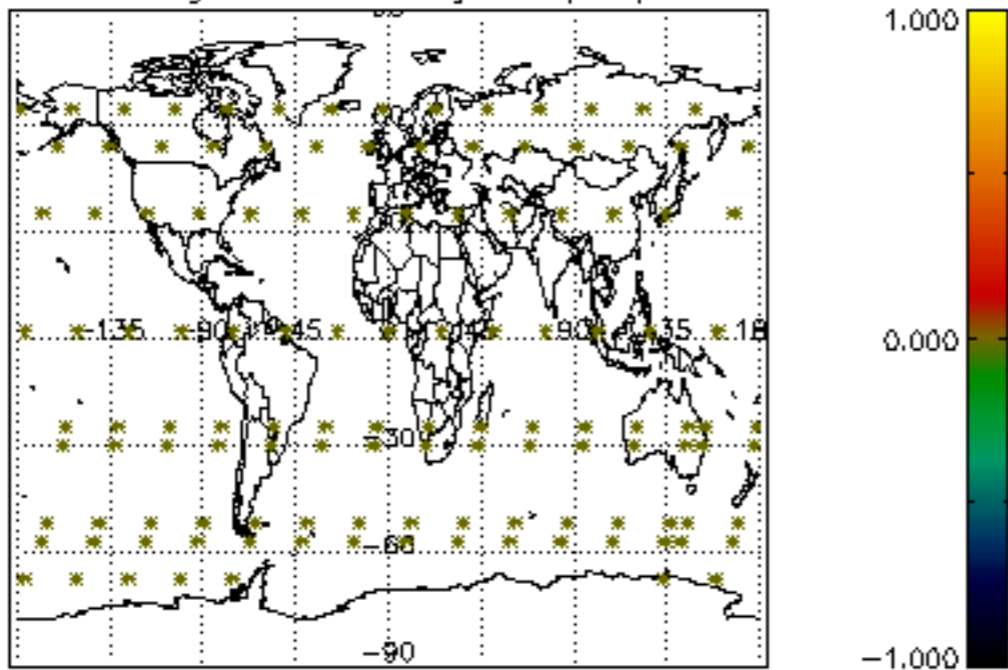
Percentage of star falling outside central band per profile



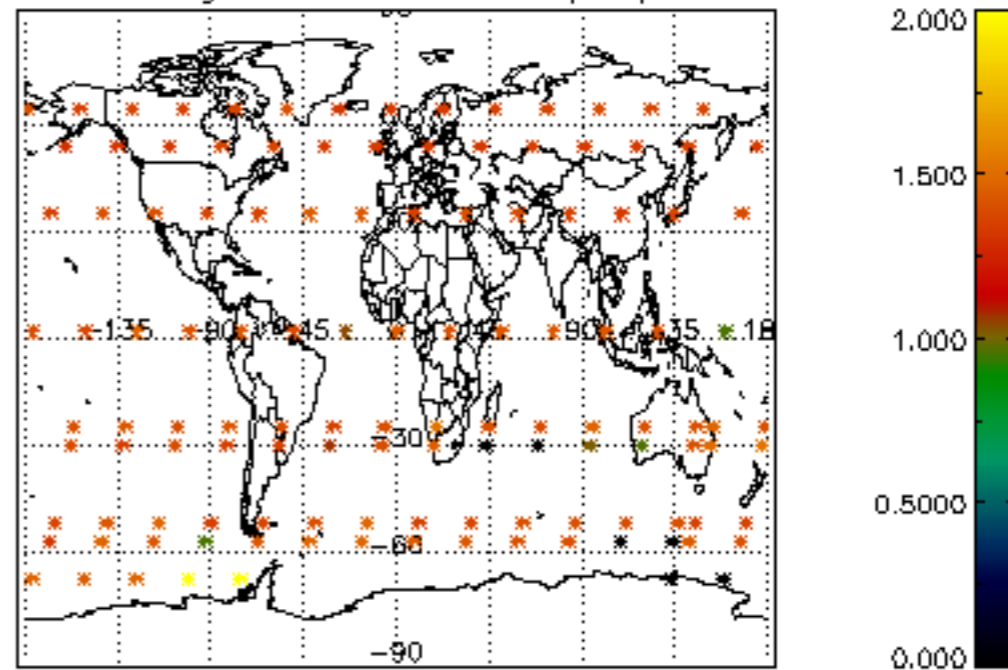
Percentage of saturation errors per profile



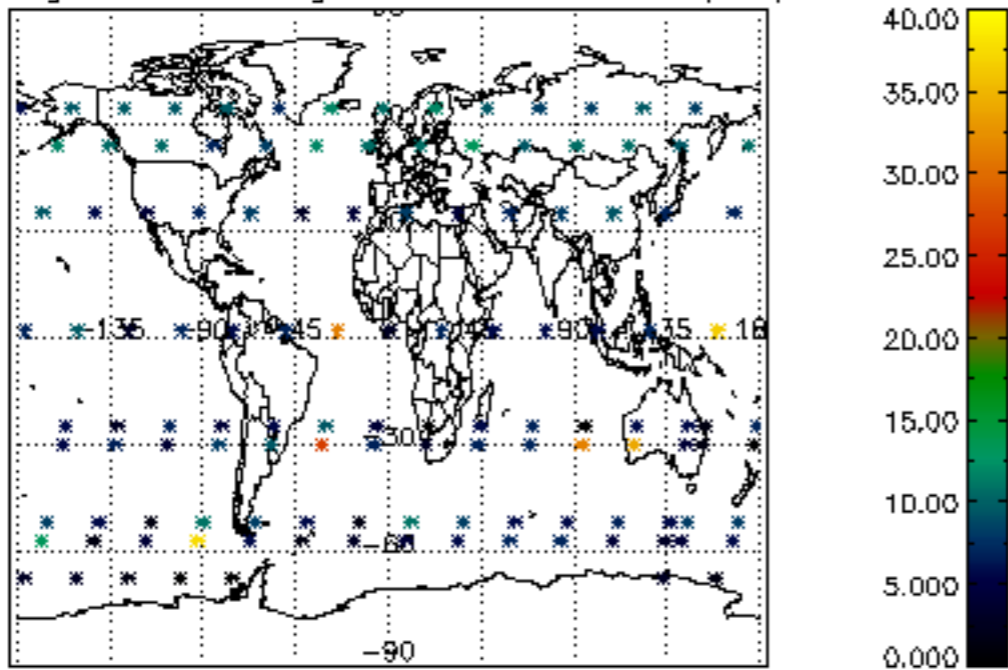
Percentage of cosmic ray hits per profile



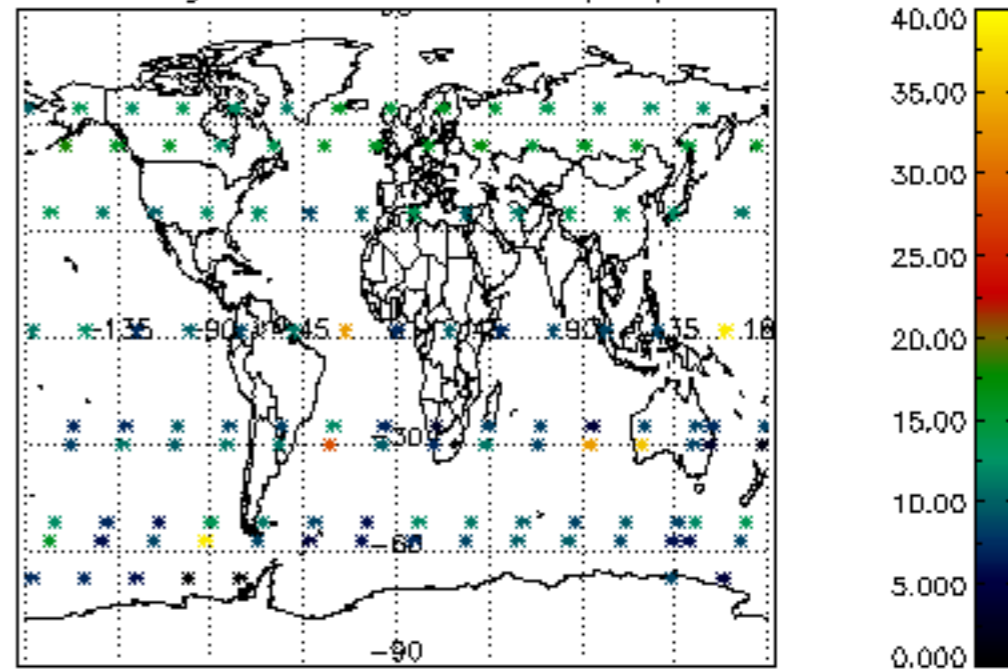
Percentage of datation errors per profile

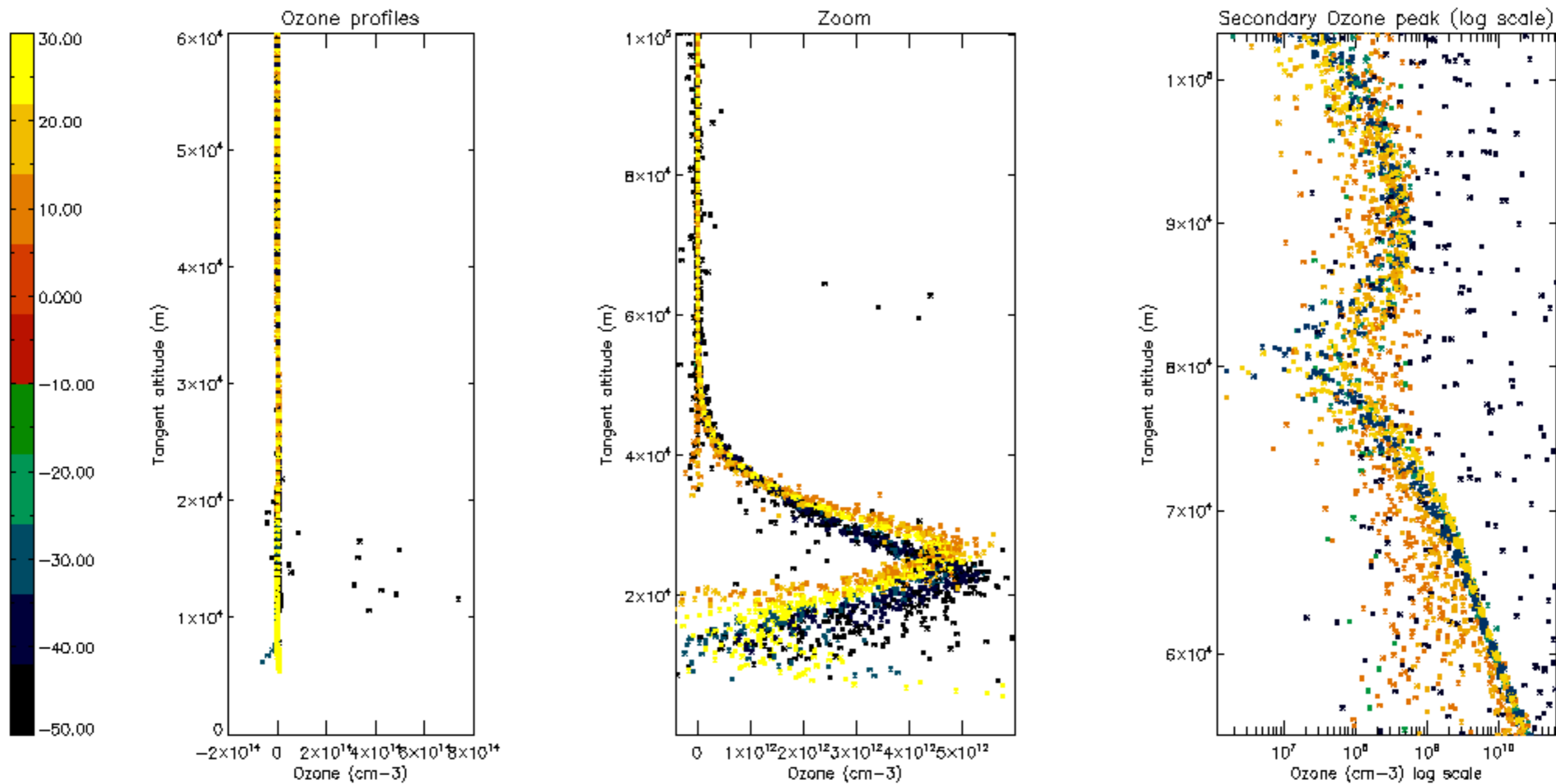


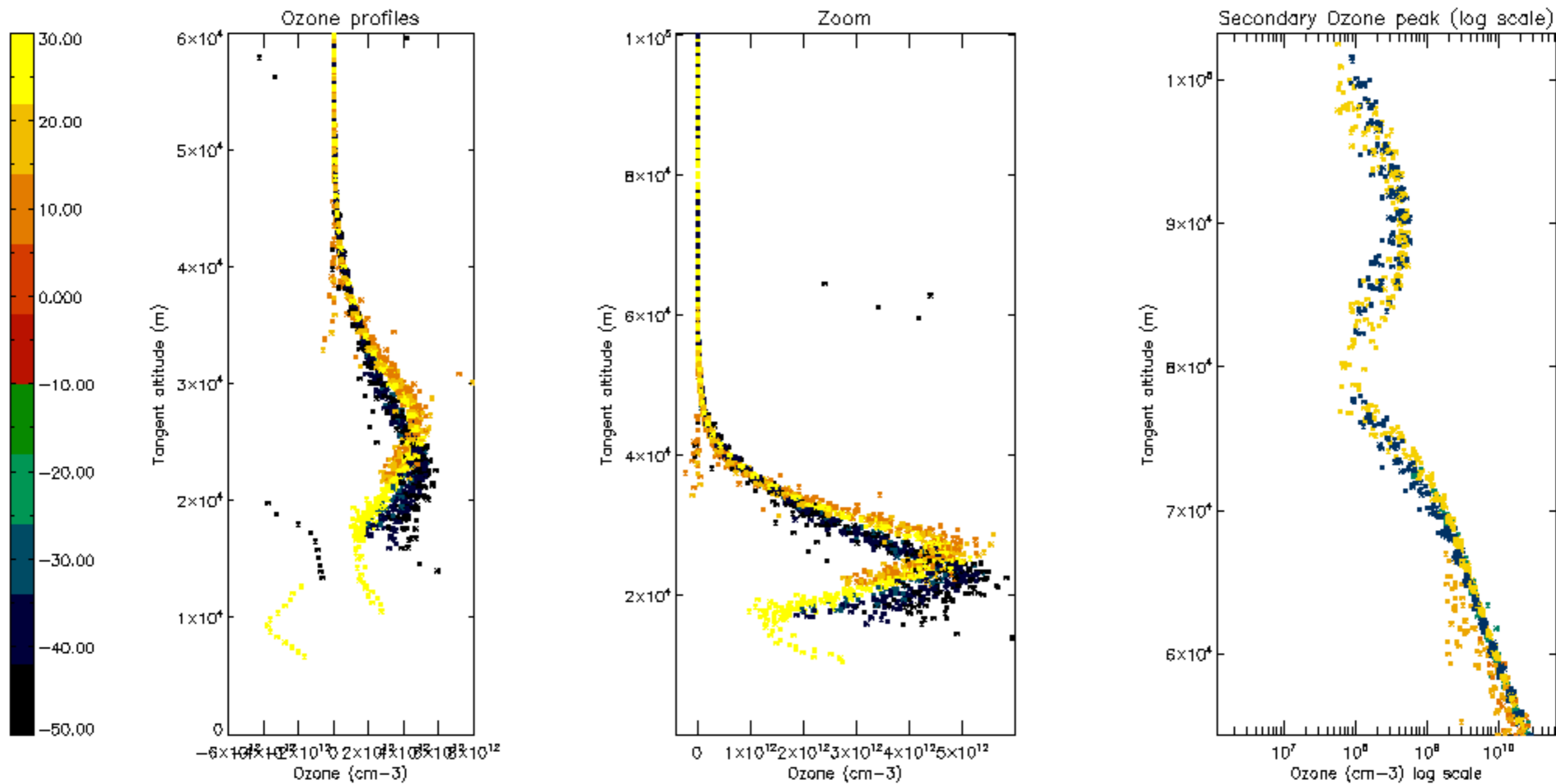
Percentage of star falling outside central band per profile

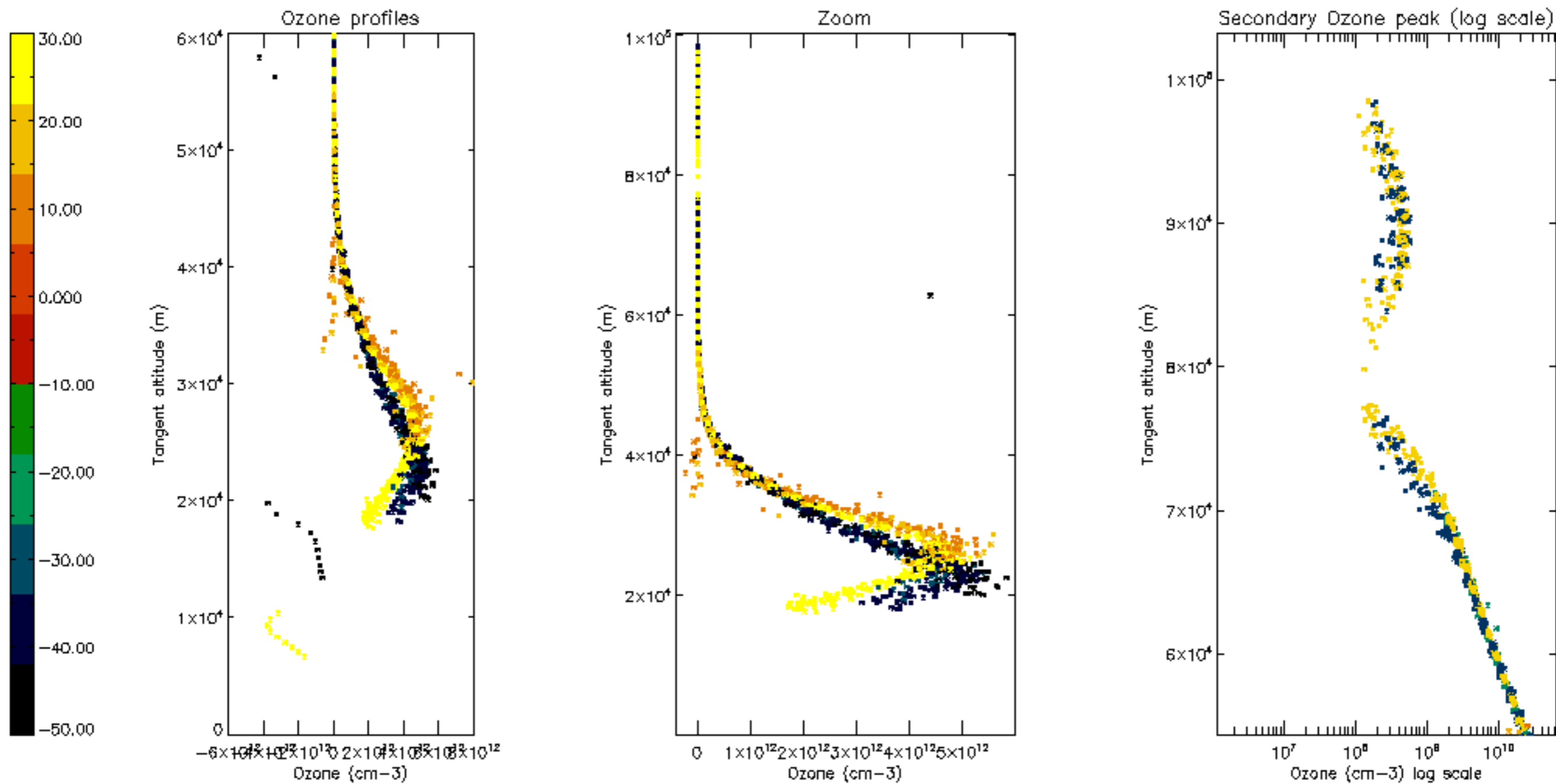


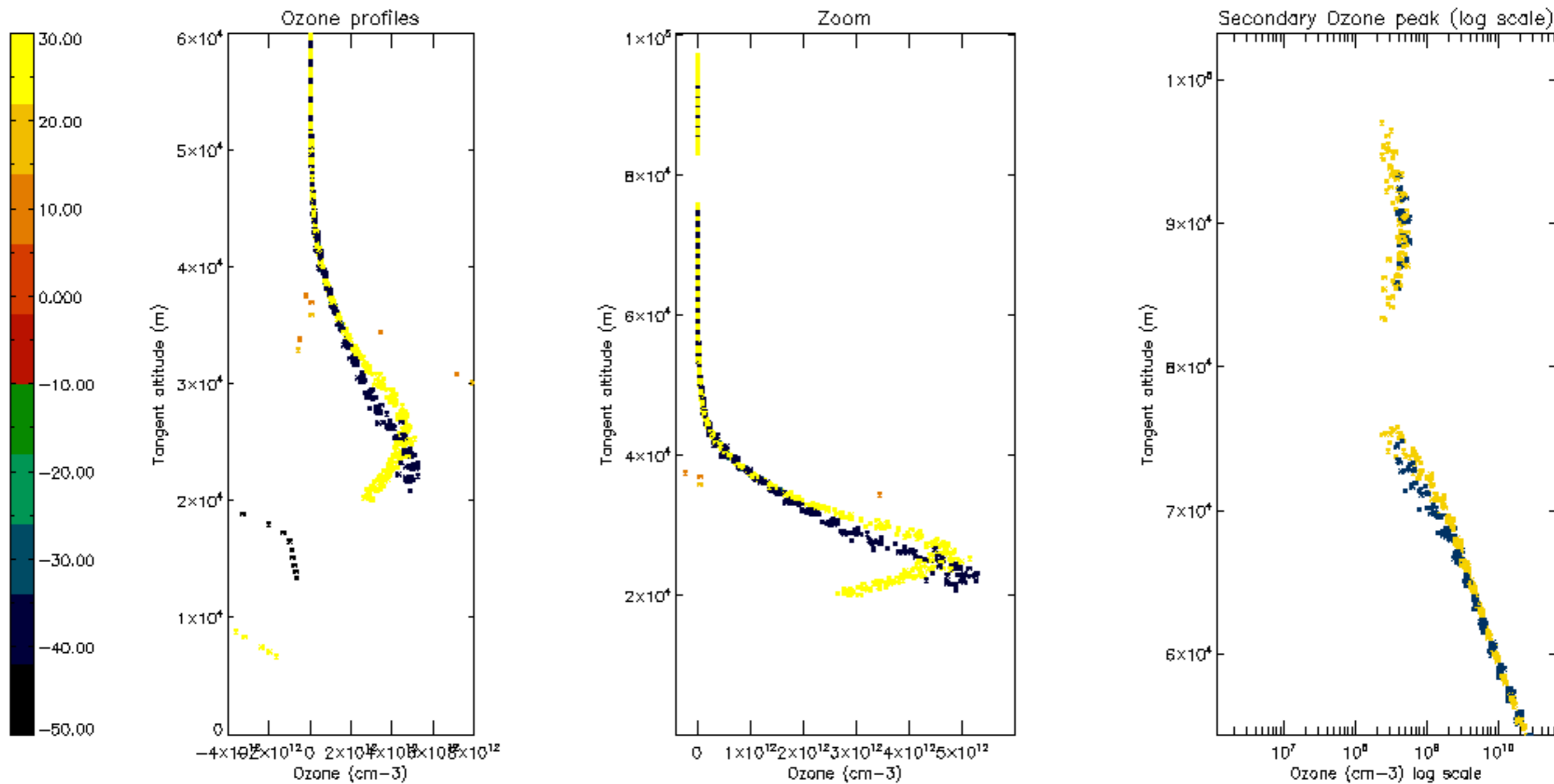
Percentage of saturation errors per profile

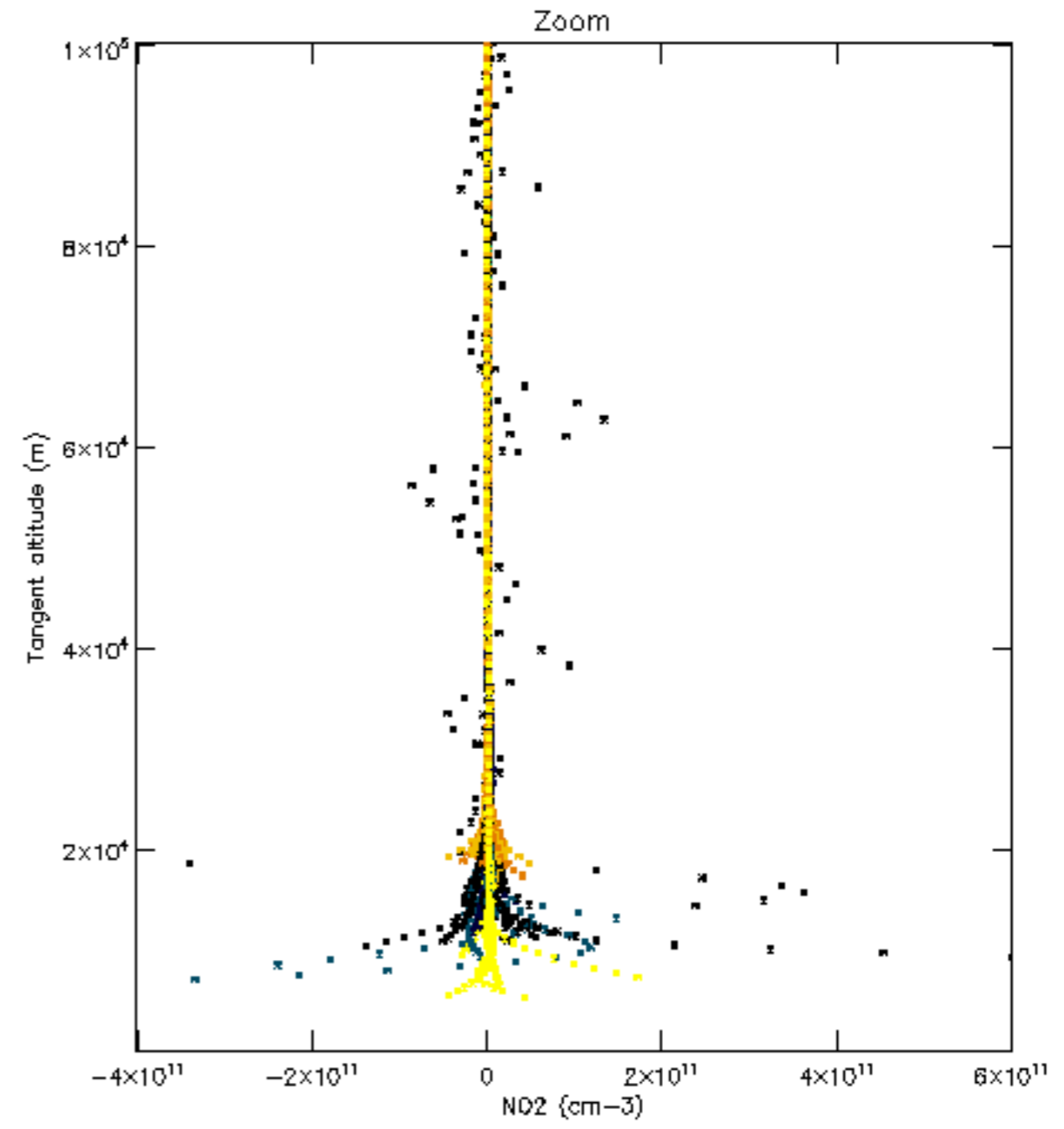
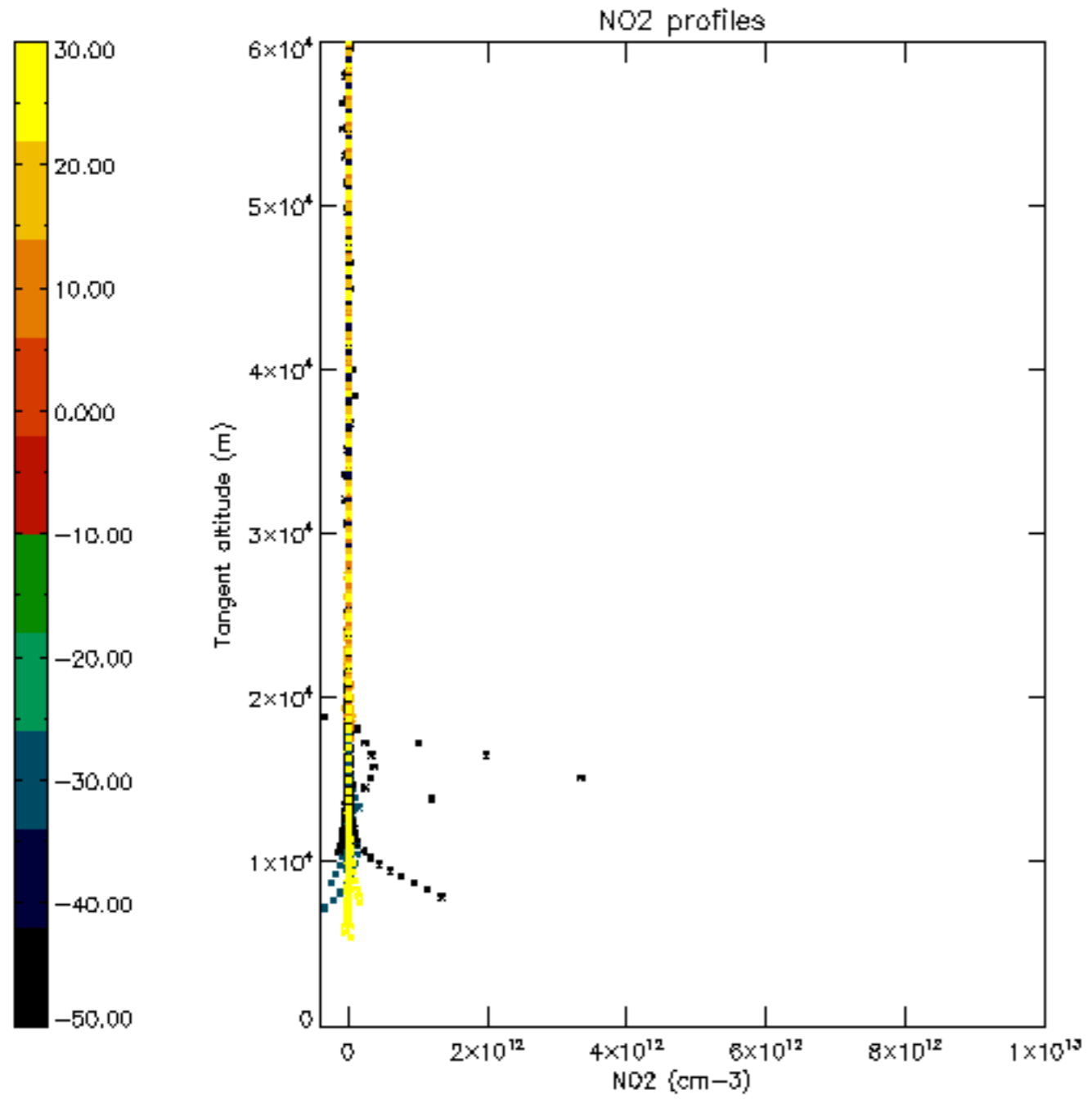


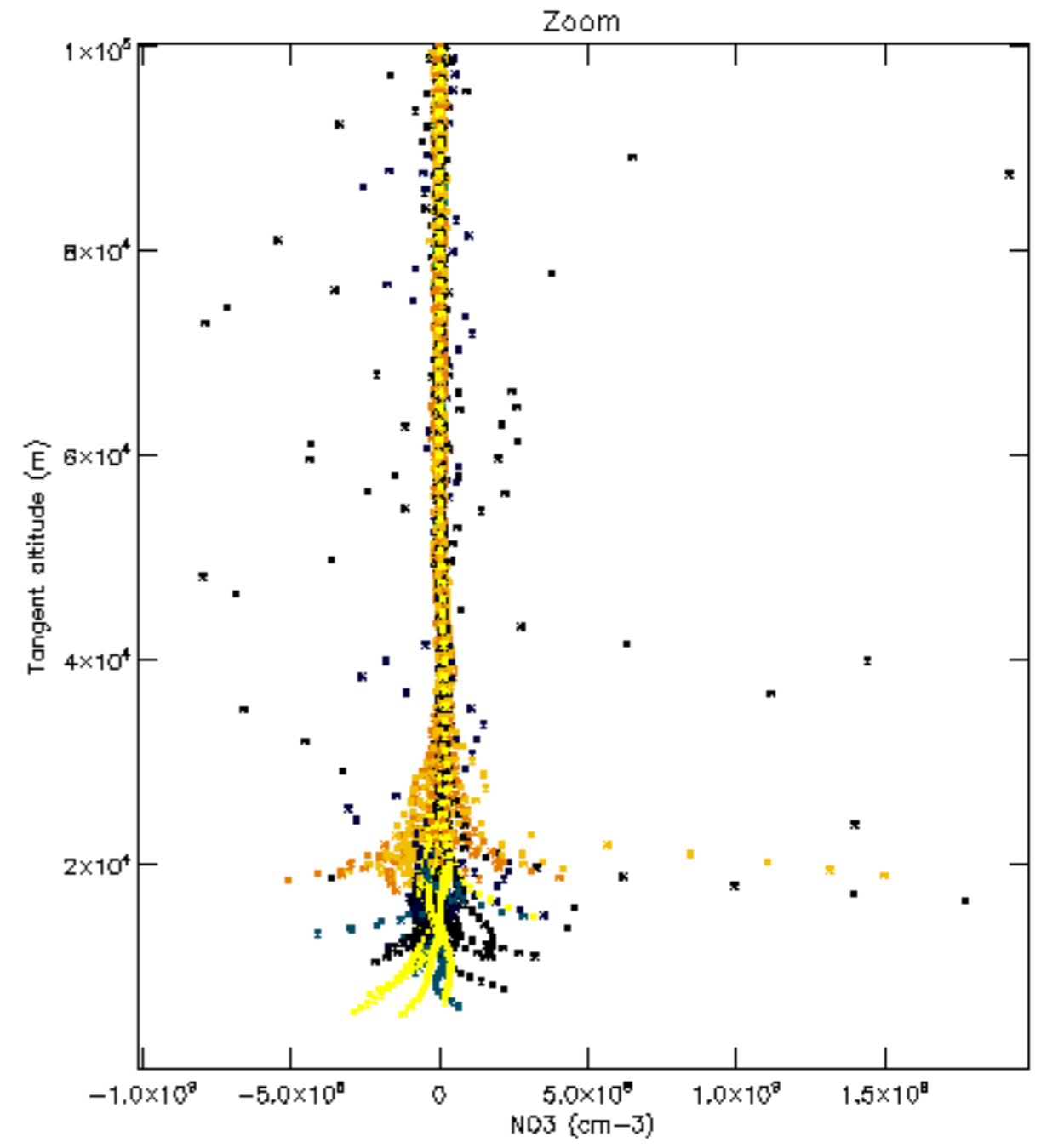
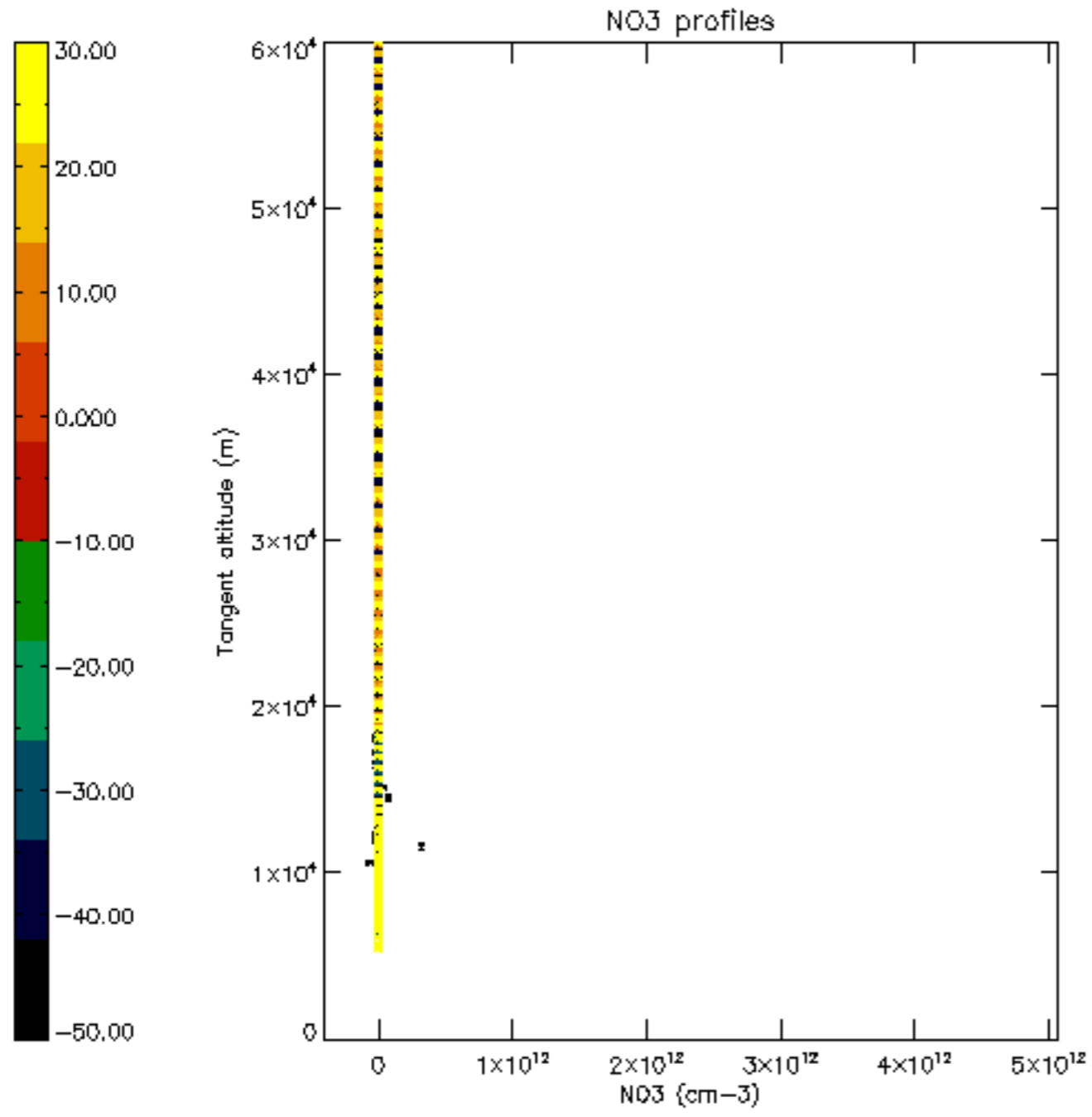


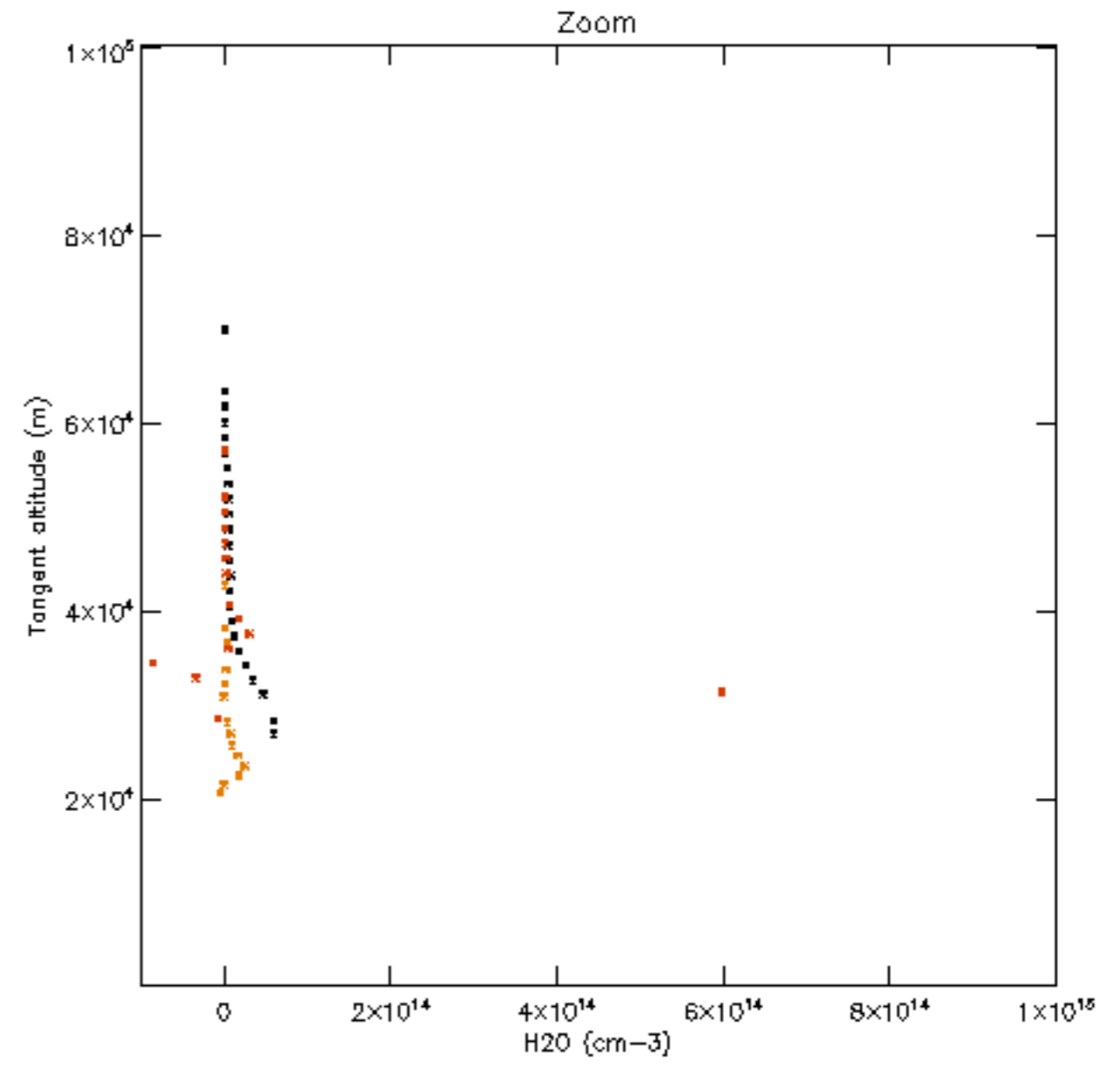
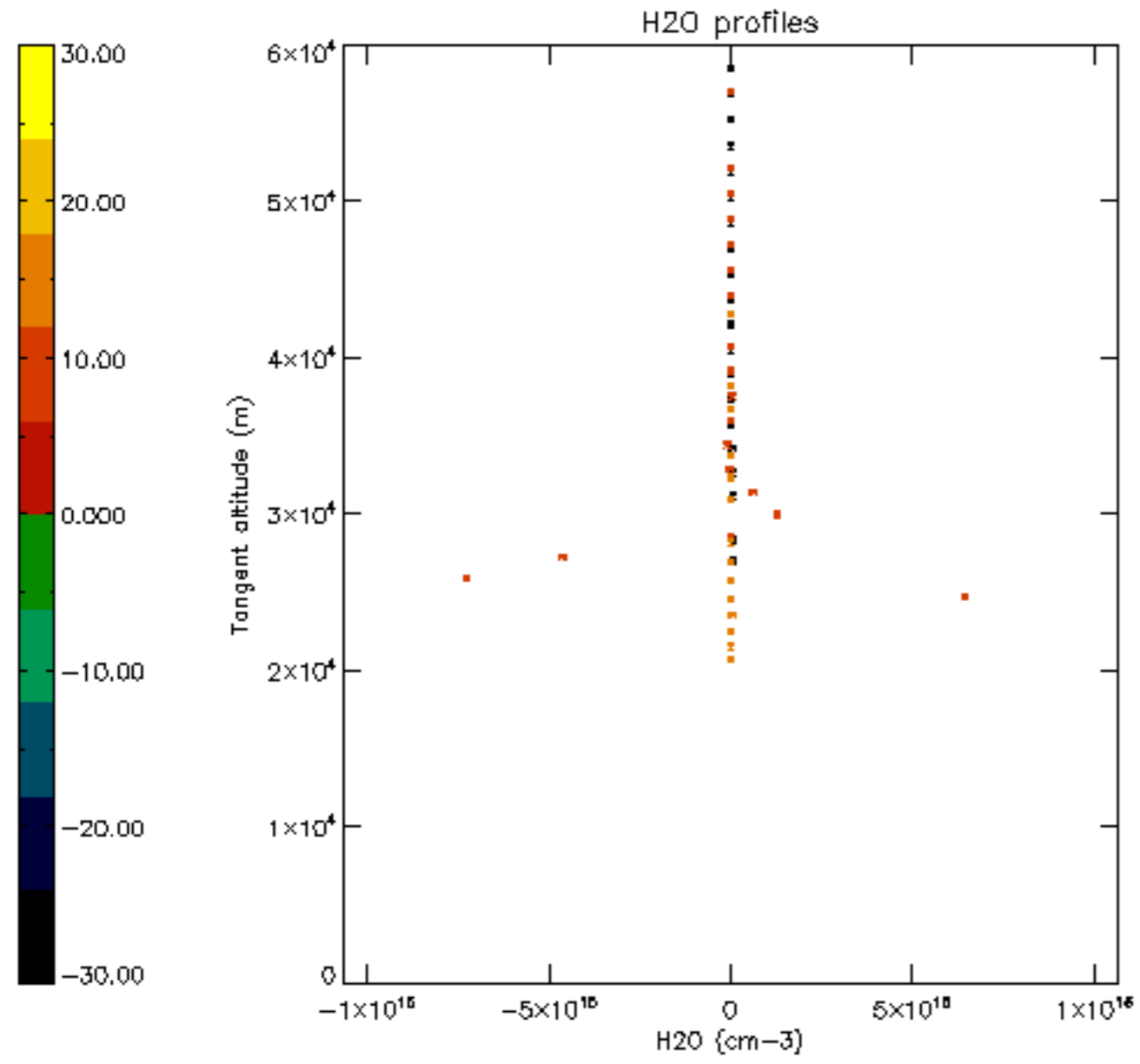


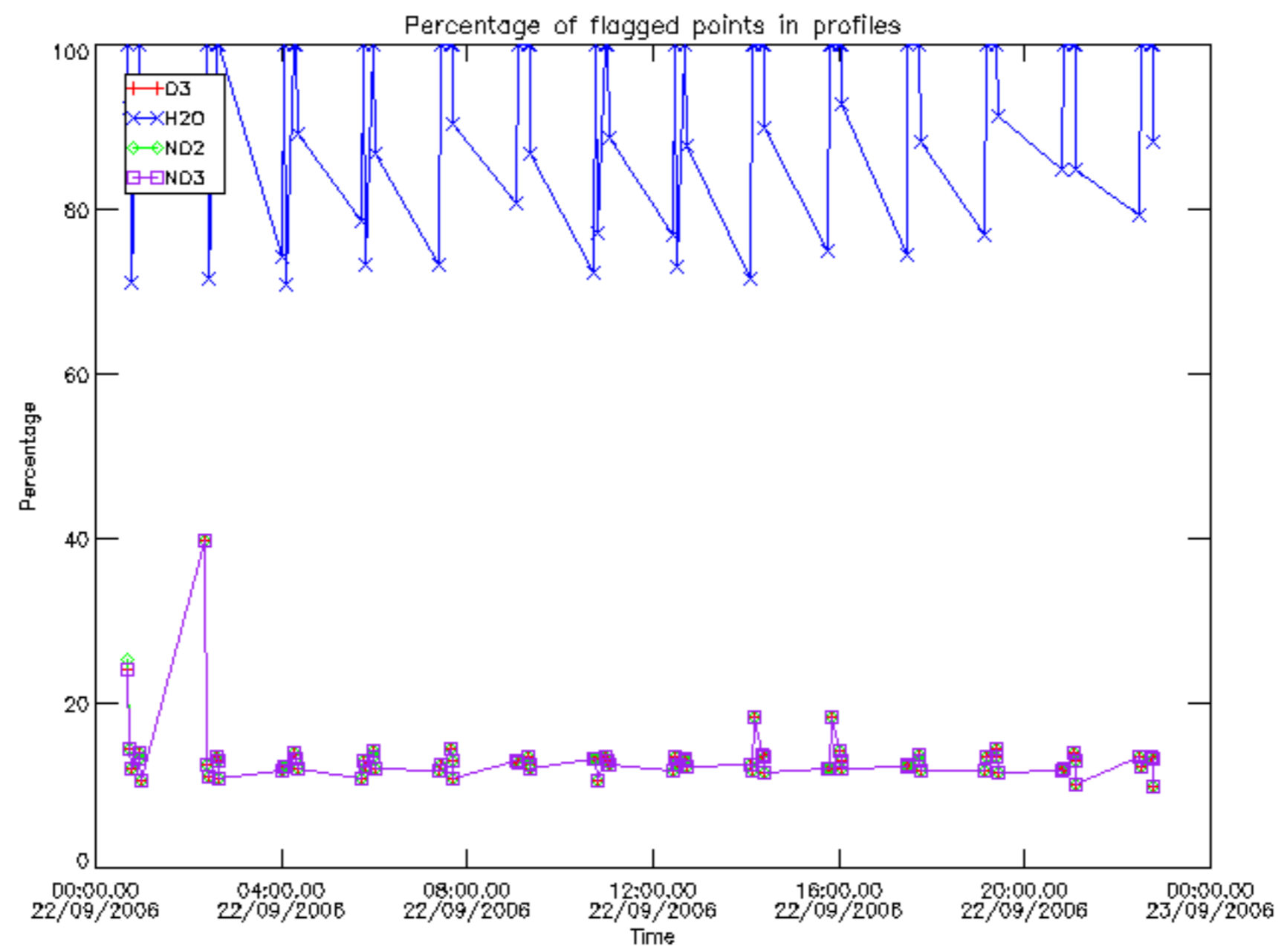




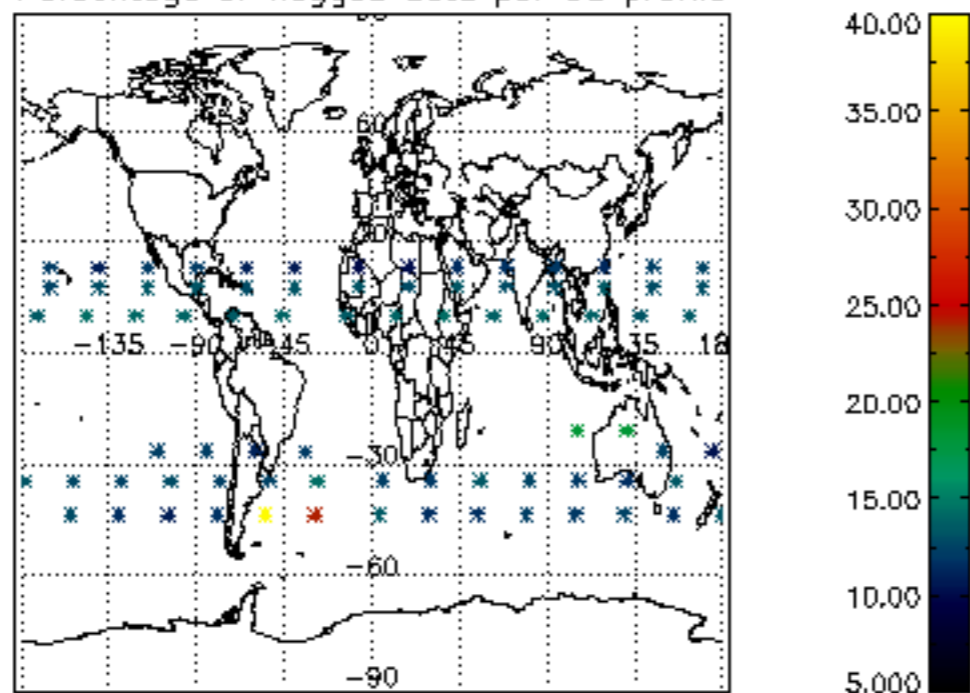




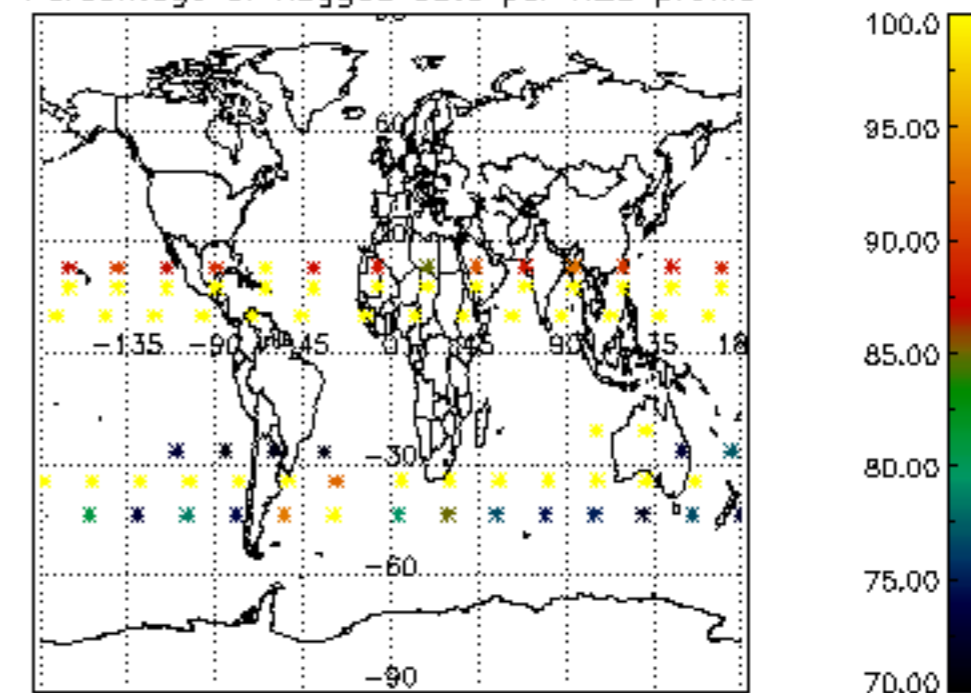




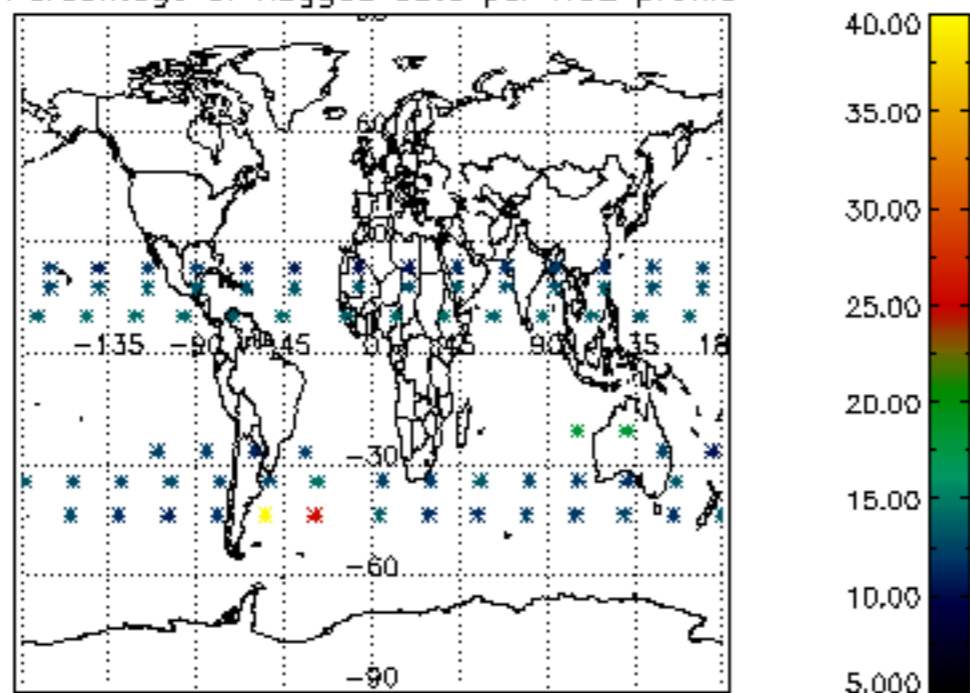
Percentage of flagged data per D3 profile



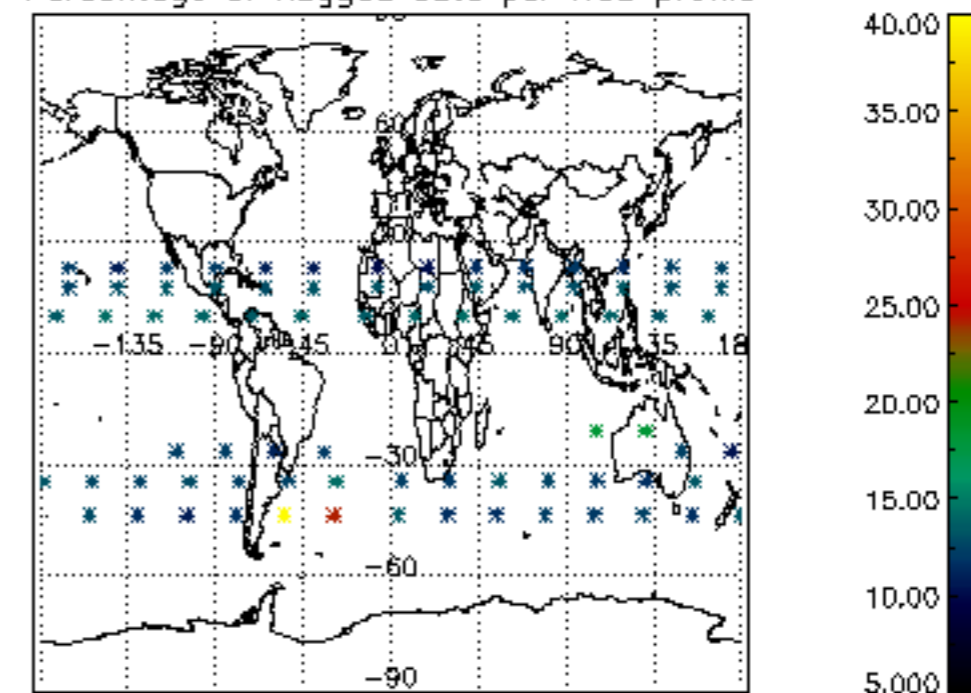
Percentage of flagged data per H2O profile

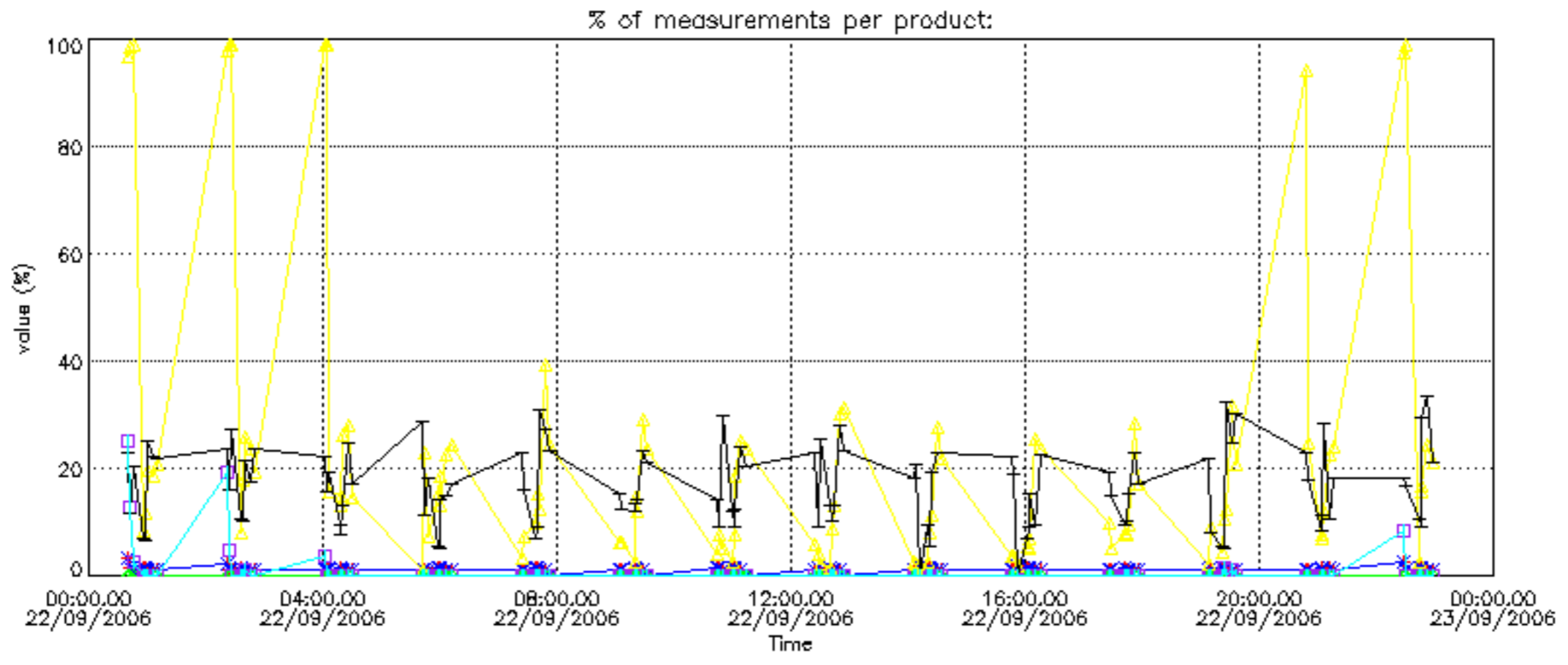


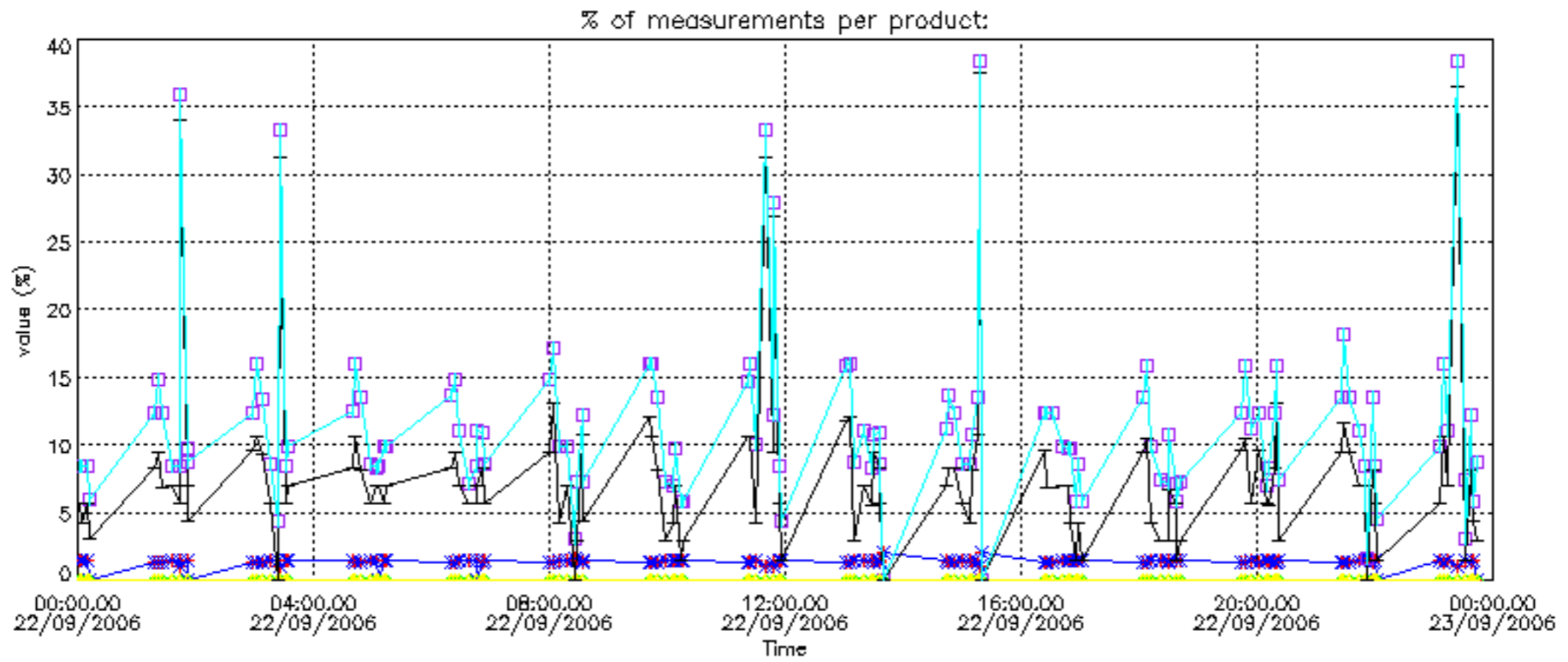
Percentage of flagged data per NO2 profile



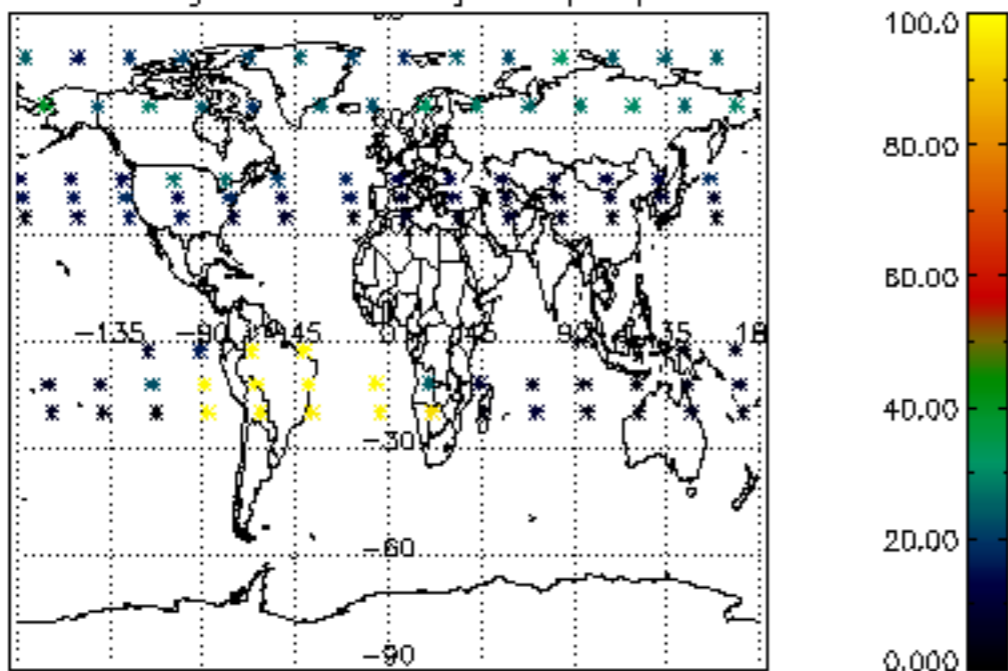
Percentage of flagged data per NO3 profile



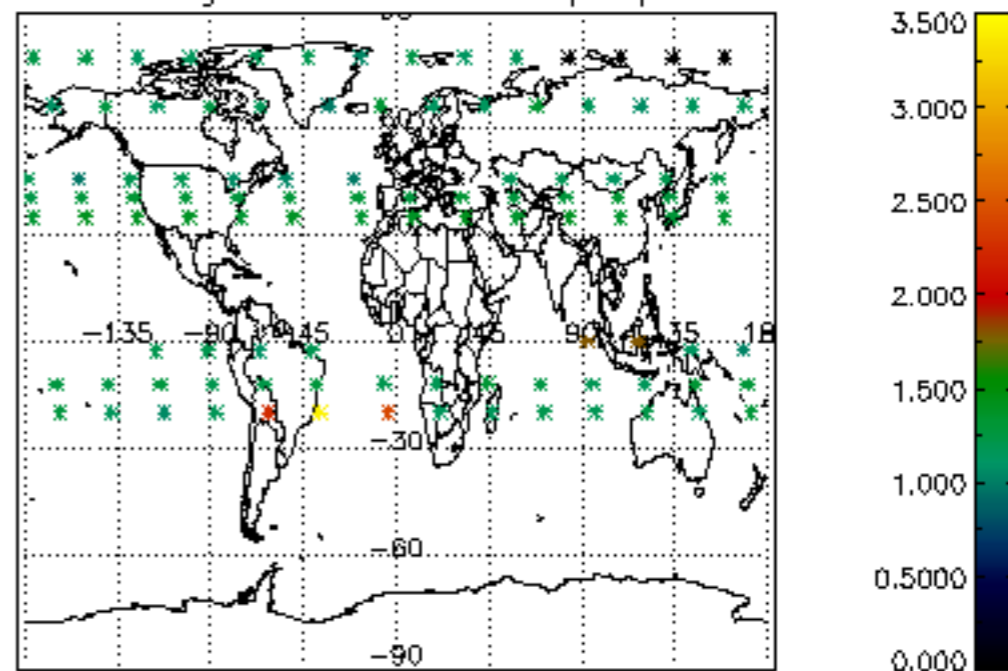




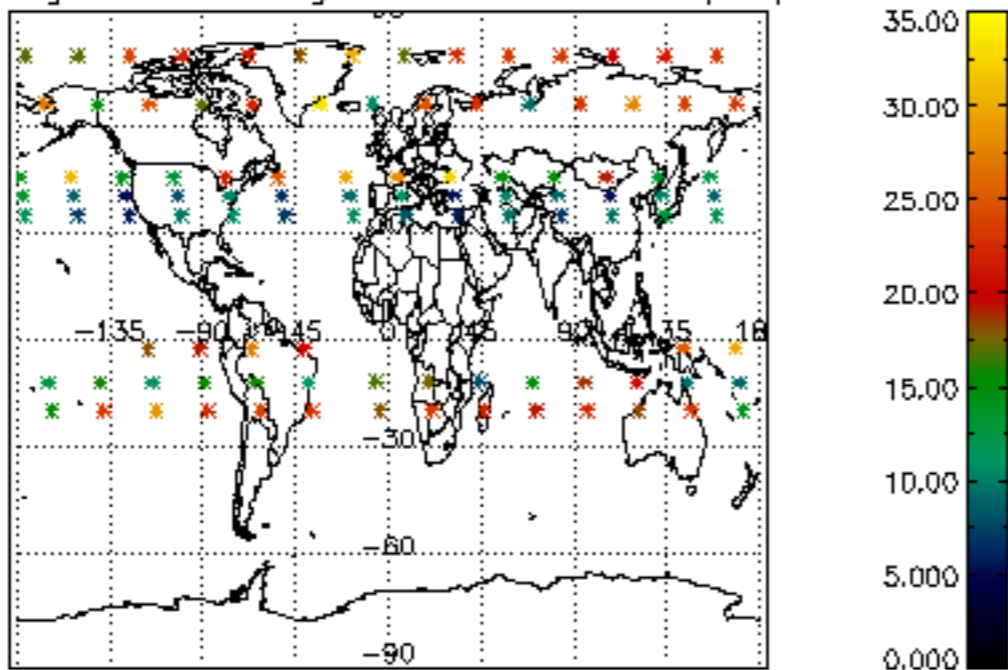
Percentage of cosmic ray hits per profile



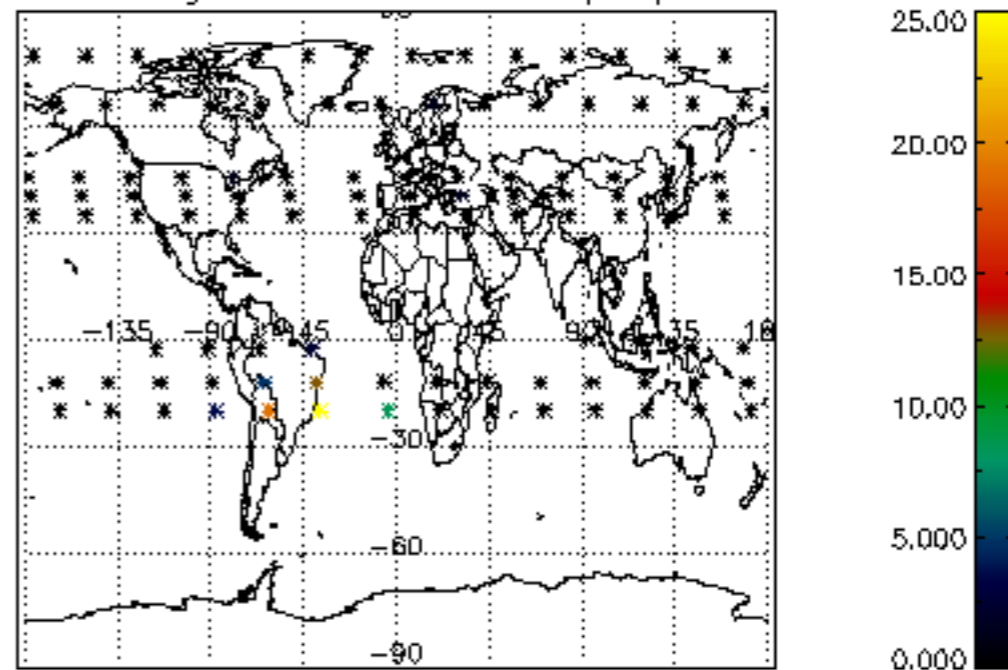
Percentage of datation errors per profile



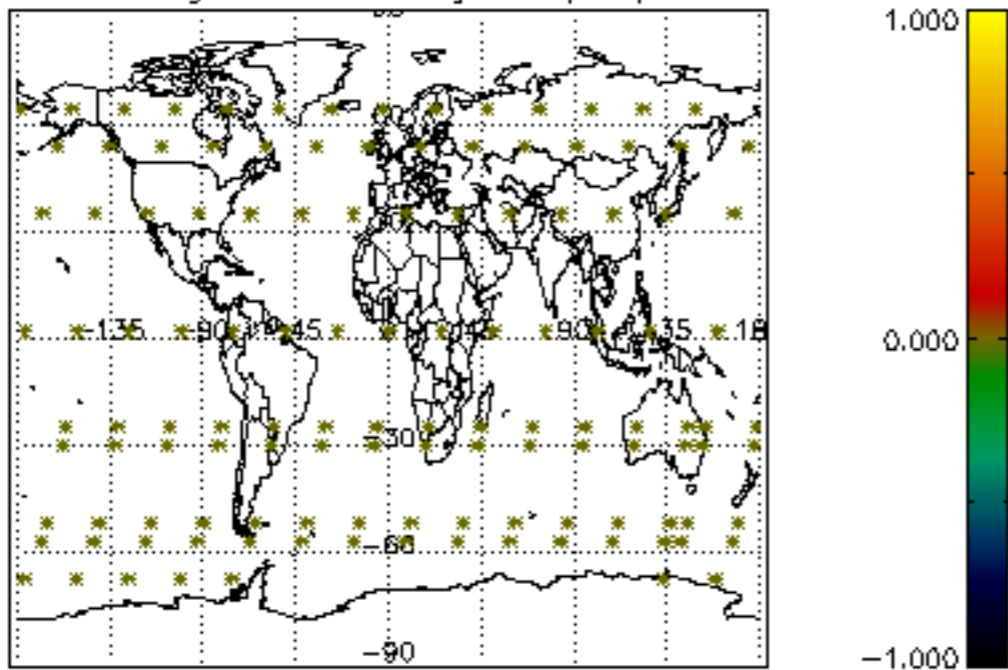
Percentage of star falling outside central band per profile



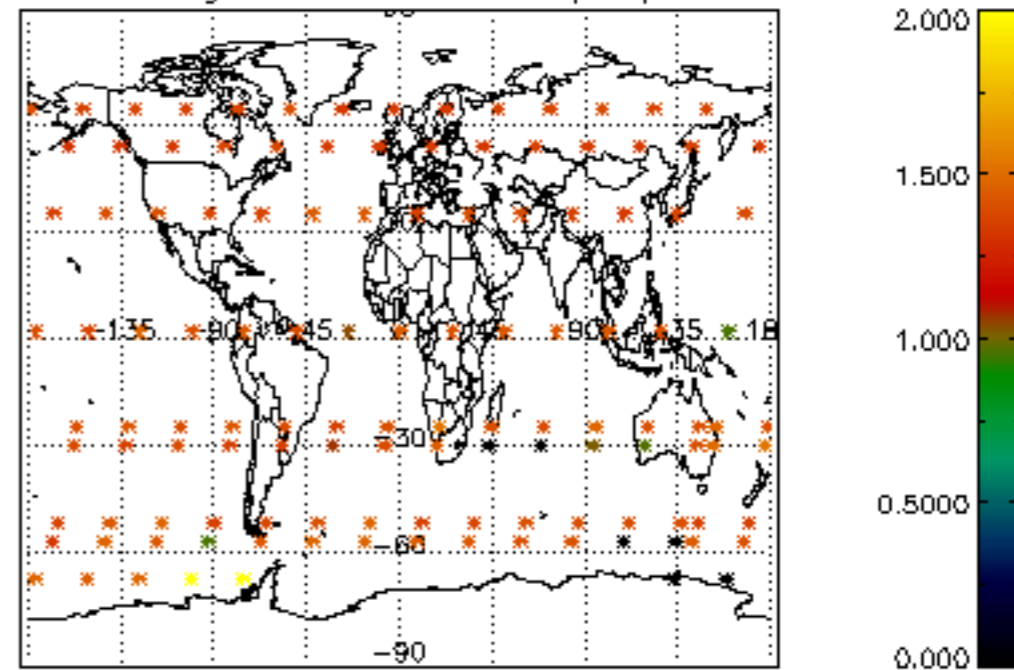
Percentage of saturation errors per profile



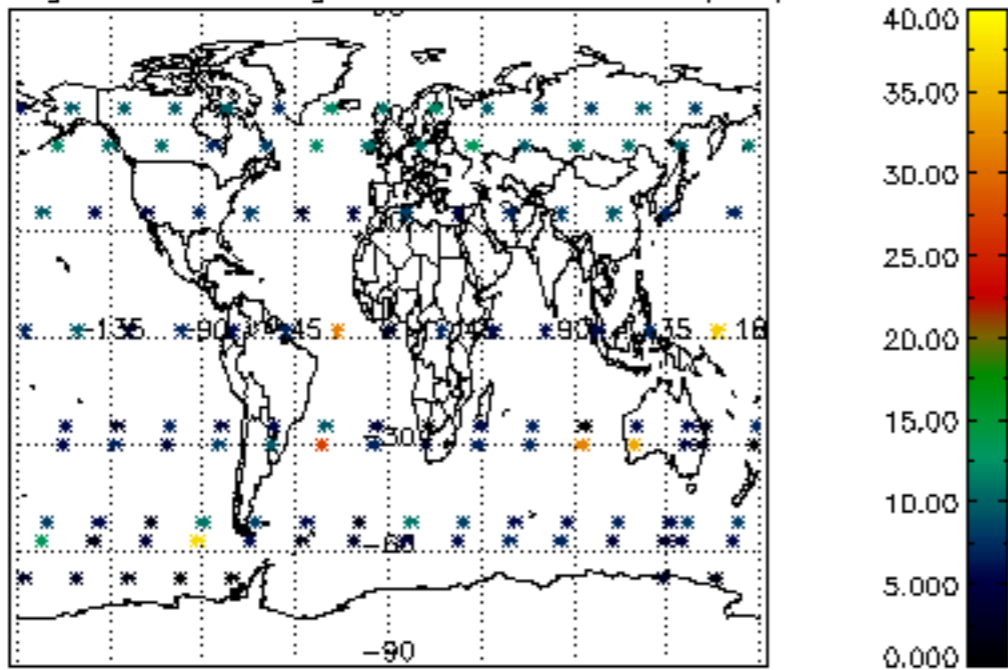
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

