

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

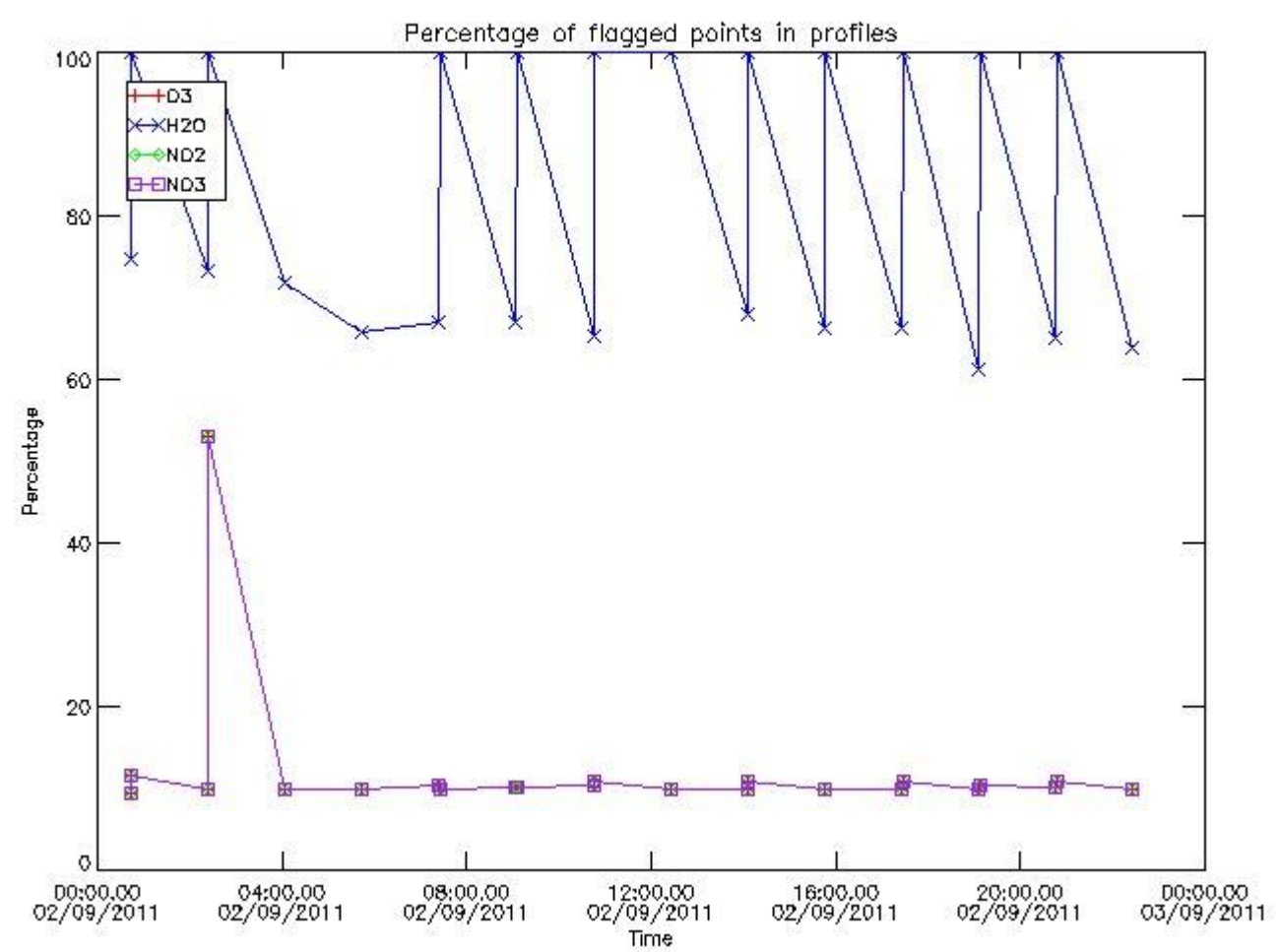
[6. Auxiliary Data Files used for the production reported in section 2](#)

43	GOM_NL__2PRFIN20110902_161811_000000493106_00141_49724_9779.N1	02-SEP-2011 16:18:11	Straylight	49.000	18	24Alp PsA	1.1660	9700.0	98	49724	No
44	GOM_NL__2PRFIN20110902_164743_000000433106_00141_49724_9780.N1	02-SEP-2011 16:47:43	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	49724	No
45	GOM_NL__2PRFIN20110902_172534_000000513106_00141_49724_9781.N1	02-SEP-2011 17:25:34	Dark	51.000	1	9Alp CMa	-1.4400	11000.	102	49724	No
46	GOM_NL__2PRFIN20110902_172655_000000523106_00141_49724_9782.N1	02-SEP-2011 17:26:55	Dark	51.500	47	2Bet CMa	1.9760	28000.	103	49724	No
47	GOM_NL__2PRFIN20110902_175230_000000553106_00142_49725_9794.N1	02-SEP-2011 17:52:30	Straylight	55.000	84	Alp Phe	2.3970	4500.0	110	49725	No
48	GOM_NL__2PRFIN20110902_175825_000000483106_00142_49725_9795.N1	02-SEP-2011 17:58:25	Straylight	47.500	18	24Alp PsA	1.1660	9700.0	95	49725	No
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50	GOM_NL__2PRFIN20110902_182757_000000443106_00142_49725_9797.N1	02-SEP-2011 18:27:57	Bright	44.000	74	11Bet Cas	2.2680	6600.0	88	49725	No
51	GOM_NL__2PRFIN20110902_185559_000000543106_00142_49725_9798.N1	02-SEP-2011 18:55:59	Twilight	53.500	44	24Gam Gem	1.9280	11000.	107	49725	No
52	GOM_NL__2PRFIN20110902_185759_000000483106_00142_49725_9799.N1	02-SEP-2011 18:57:59	Twilight	47.500	8	10Alp CMi	0.40000	6500.0	95	49725	No
53	GOM_NL__2PRFIN20110902_190549_000000523106_00142_49725_9800.N1	02-SEP-2011 19:05:49	Dark	52.000	1	9Alp CMa	-1.4400	11000.	104	49725	No
54	GOM_NL__2PRFIN20110902_190710_000000503106_00142_49725_9801.N1	02-SEP-2011 19:07:10	Dark	49.500	47	2Bet CMa	1.9760	28000.	99	49725	No
55	GOM_NL__2PRFIN20110902_193244_000000483106_00143_49726_9828.N1	02-SEP-2011 19:32:44	Straylight	48.000	84	Alp Phe	2.3970	4500.0	96	49726	No
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57	GOM_NL__2PRFIN20110902_200810_000000453106_00143_49726_9830.N1	02-SEP-2011 20:08:10	Bright	45.000	74	11Bet Cas	2.2680	6600.0	90	49726	No
58	GOM_NL__2PRFIN20110902_203613_000000553106_00143_49726_9831.N1	02-SEP-2011 20:36:13	Twilight	54.500	44	24Gam Gem	1.9280	11000.	109	49726	No
59	GOM_NL__2PRFIN20110902_203813_000000453106_00143_49726_9832.N1	02-SEP-2011 20:38:13	Twilight	45.000	8	10Alp CMi	0.40000	6500.0	90	49726	No
60	GOM_NL__2PRFIN20110902_204604_000000513106_00143_49726_9833.N1	02-SEP-2011 20:46:04	Dark	50.500	1	9Alp CMa	-1.4400	11000.	101	49726	No
61	GOM_NL__2PRFIN20110902_204845_000000463106_00143_49726_9834.N1	02-SEP-2011 20:48:45	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	49726	No
62	GOM_NL__2PRFIN20110902_211259_000000493106_00144_49727_9862.N1	02-SEP-2011 21:12:59	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	49727	No
63	GOM_NL__2PRFIN20110902_211853_000000473106_00144_49727_9863.N1	02-SEP-2011 21:18:53	Straylight	47.000	18	24Alp PsA	1.1660	9700.0	94	49727	No
64	GOM_NL__2PRFIN20110902_214823_000000413106_00144_49727_9864.N1	02-SEP-2011 21:48:23	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	49727	No
65	GOM_NL__2PRFIN20110902_222618_000000523106_00144_49727_9865.N1	02-SEP-2011 22:26:18	Dark	51.500	1	9Alp CMa	-1.4400	11000.	103	49727	No
66	GOM_NL__2PRFIN20110902_225314_000000483106_00145_49728_9887.N1	02-SEP-2011 22:53:14	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	49728	No
67	GOM_NL__2PRFIN20110902_232837_000000413106_00145_49728_9888.N1	02-SEP-2011 23:28:37	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	49728	No

3. Quality information per product

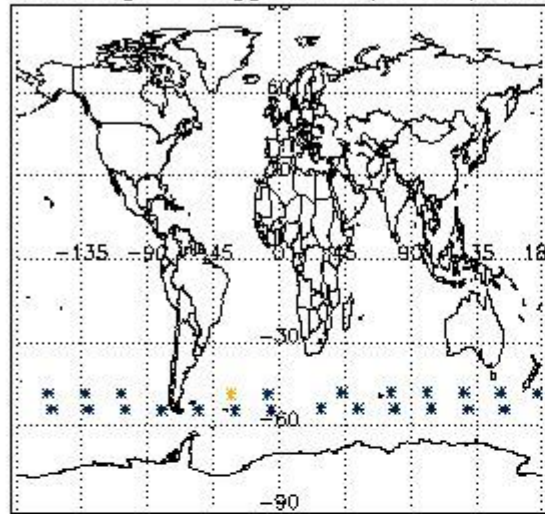
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

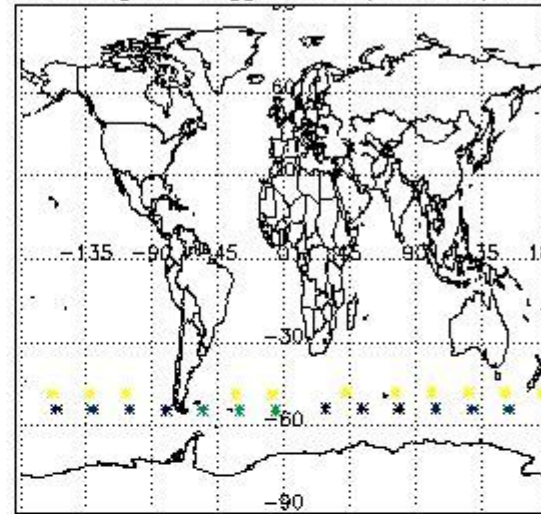


3.2 Plot quality information per product (world map)

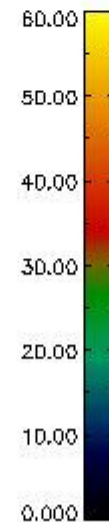
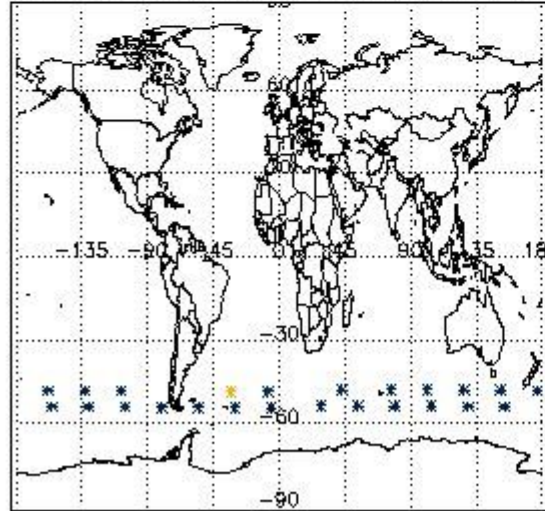
Percentage of flagged data per O3 profile



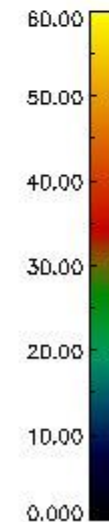
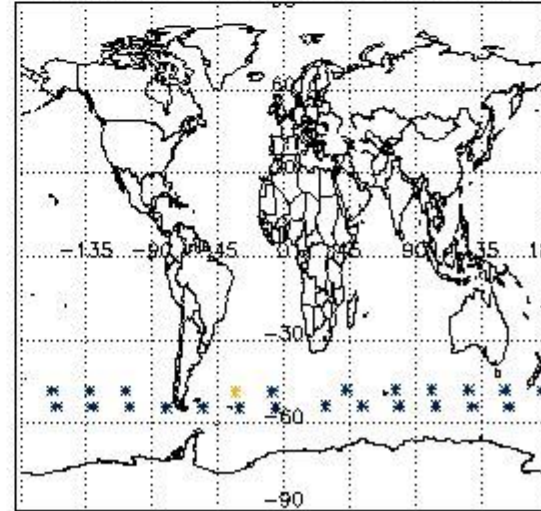
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

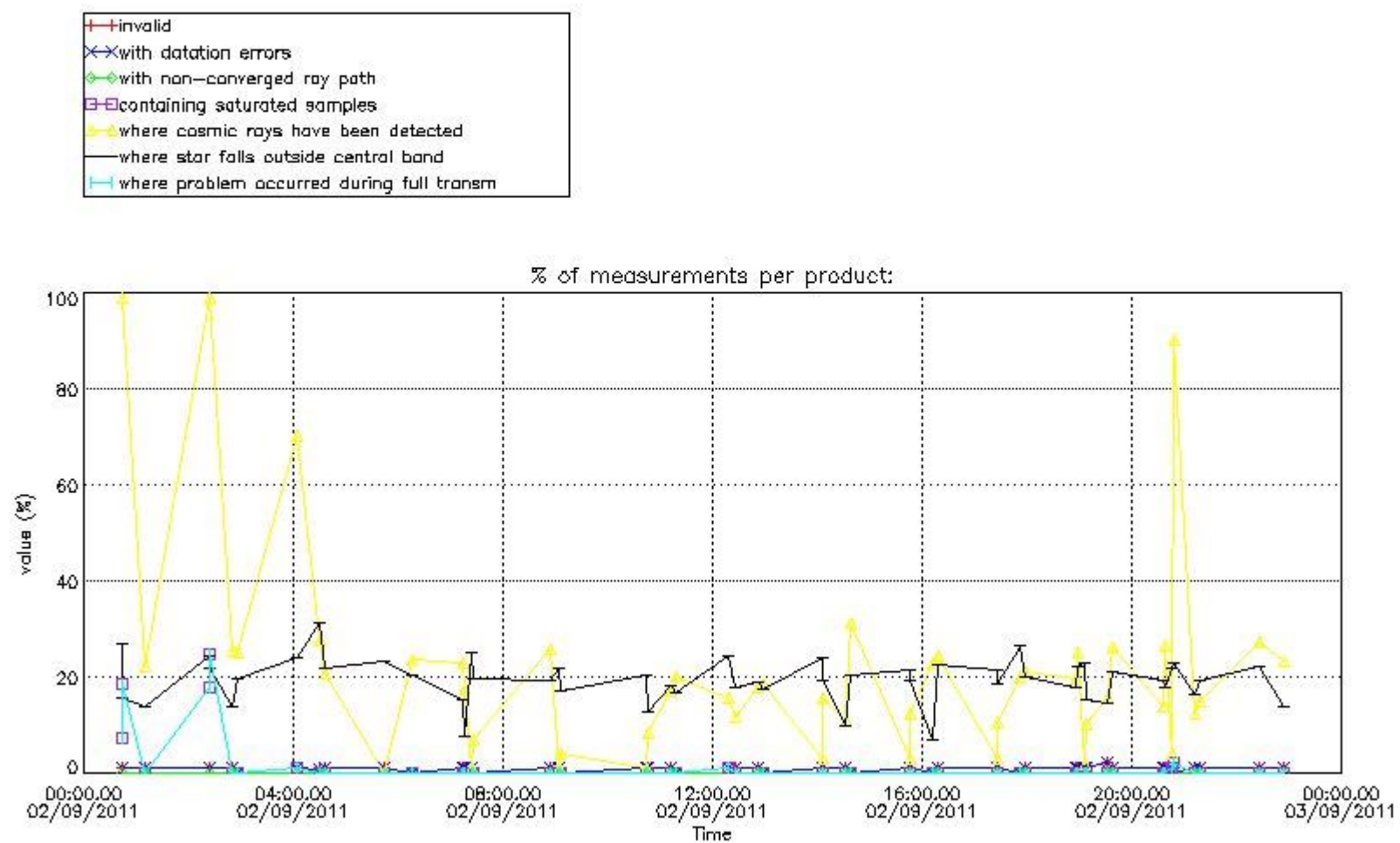


4. Level 1 quality information per product

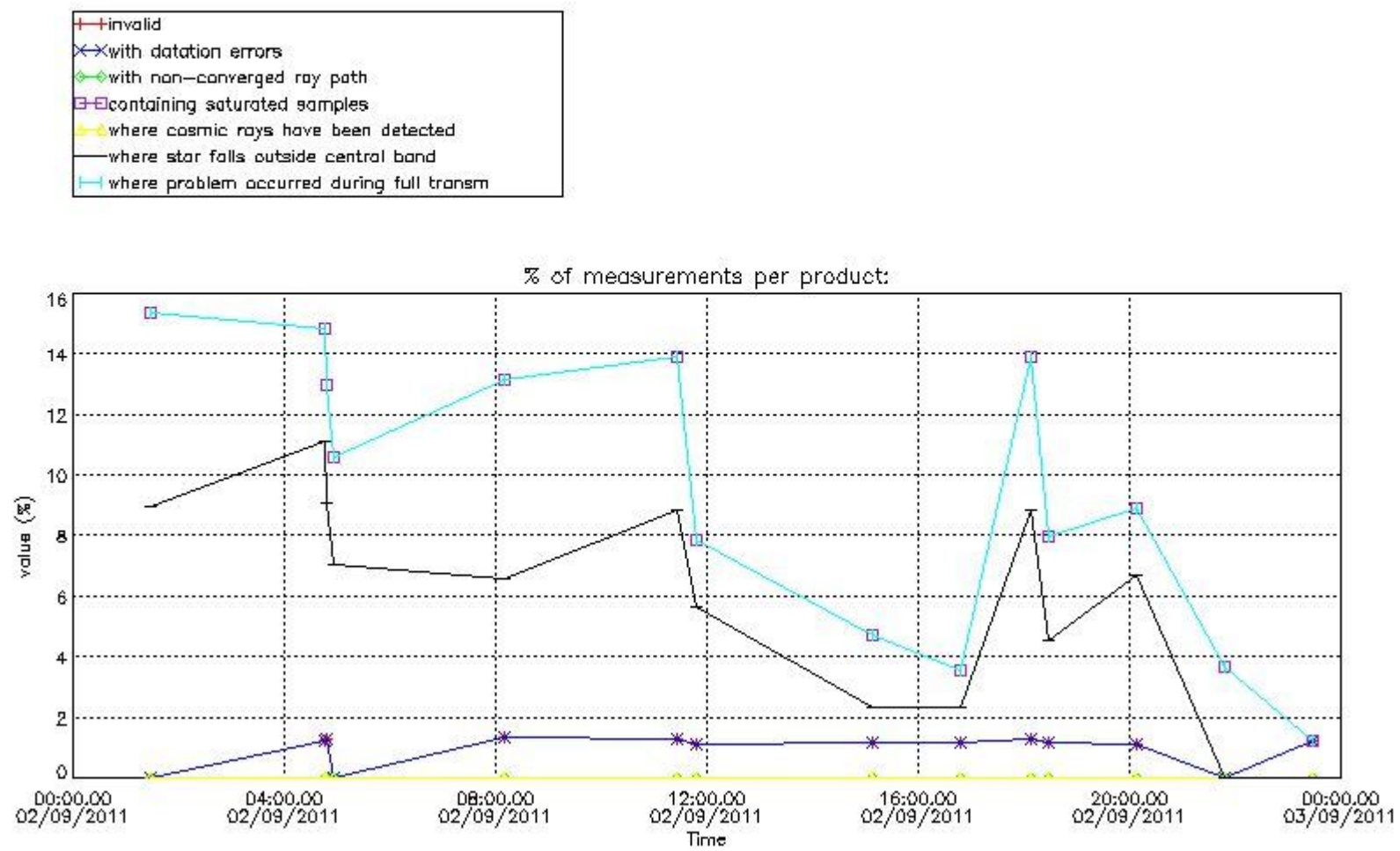
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



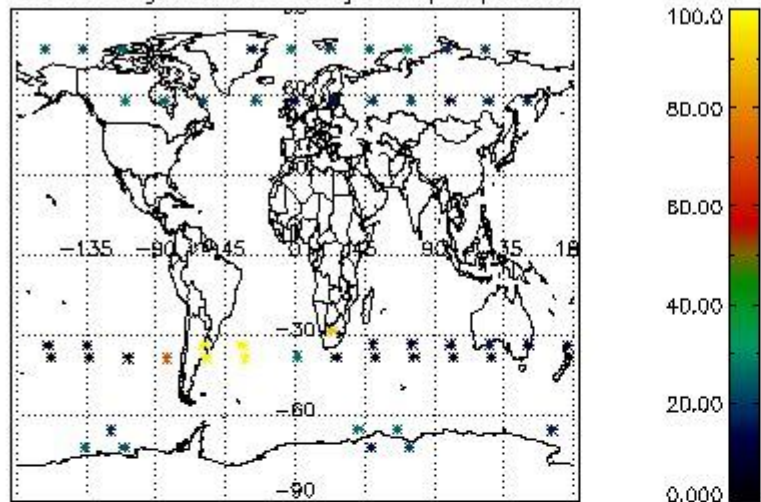
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



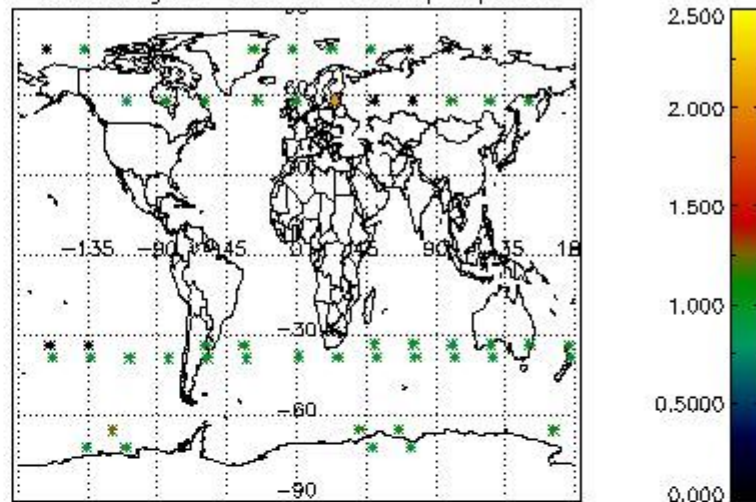
4.2 Plot quality information per product coming from level 1b processing (world map)

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

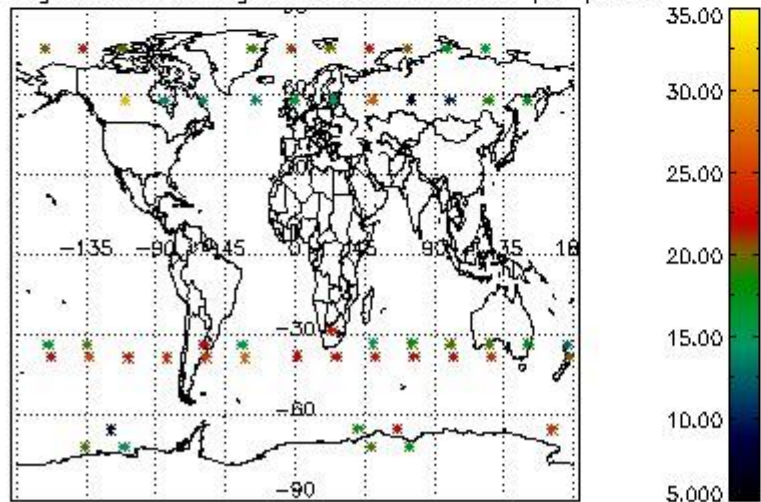
Percentage of cosmic ray hits per profile



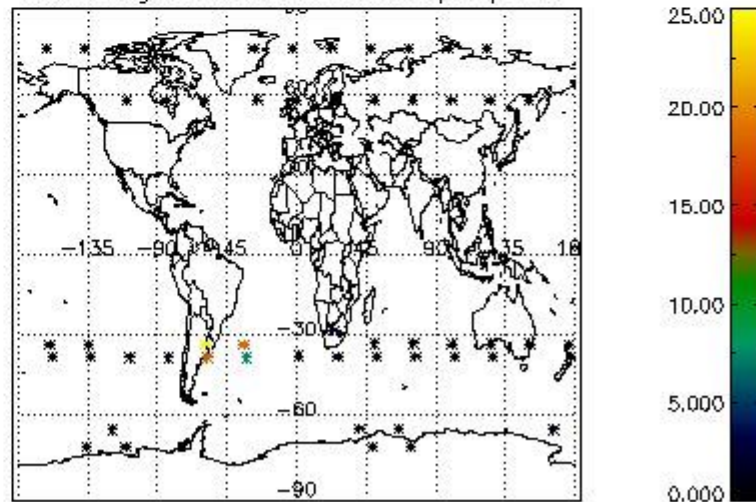
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

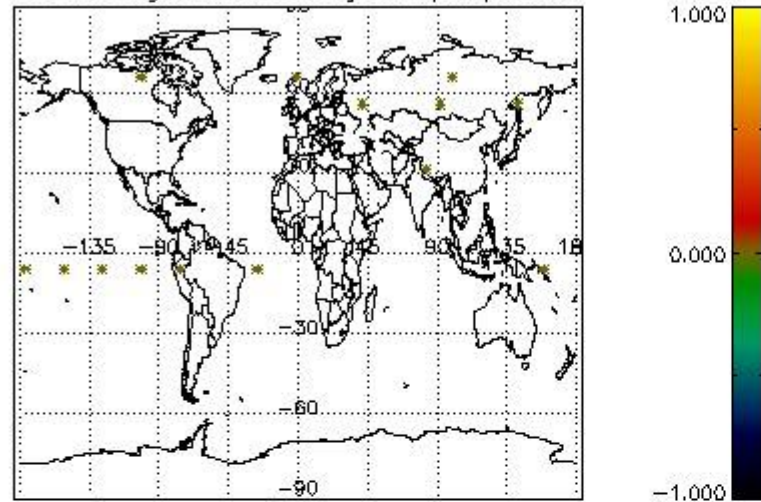


Percentage of saturation errors per profile

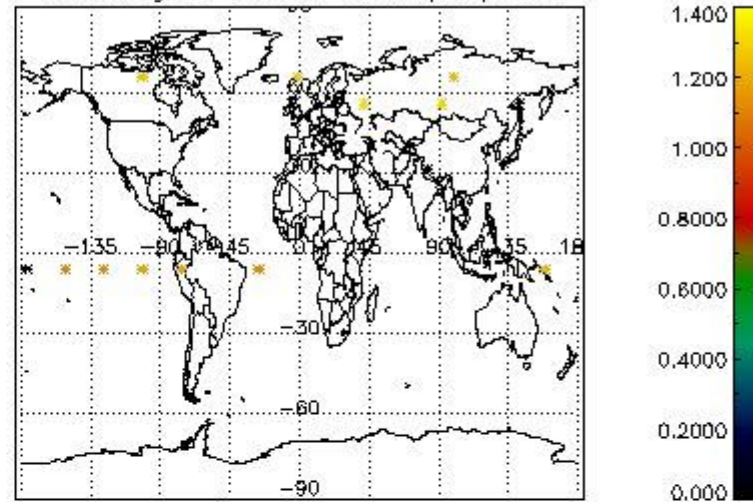


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

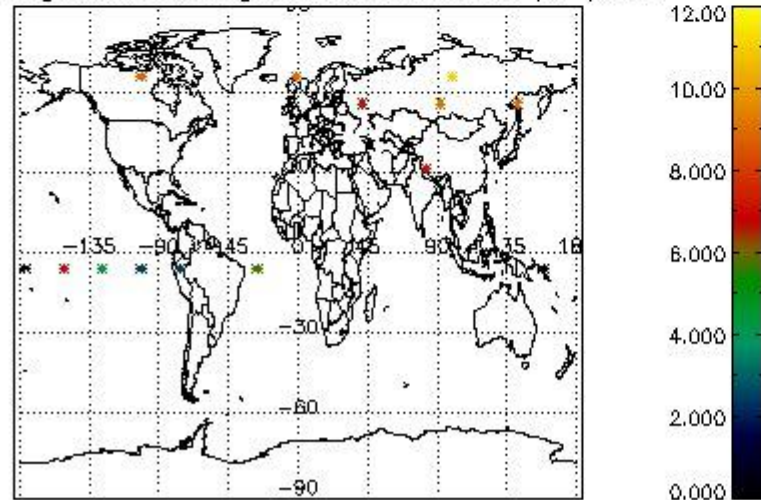
Percentage of cosmic ray hits per profile



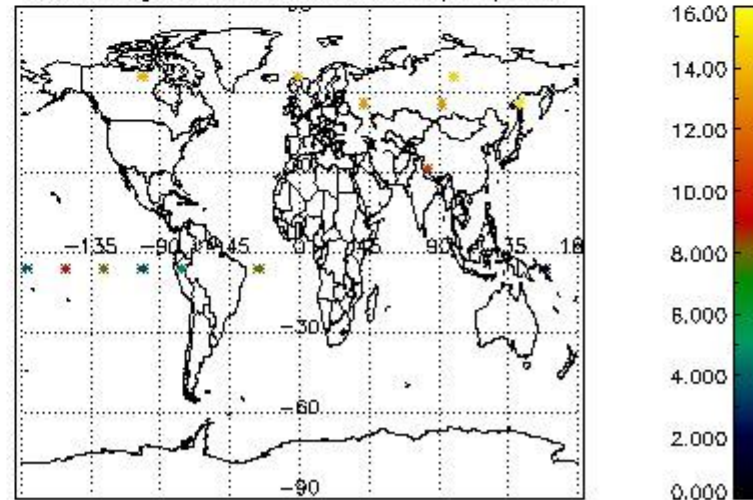
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

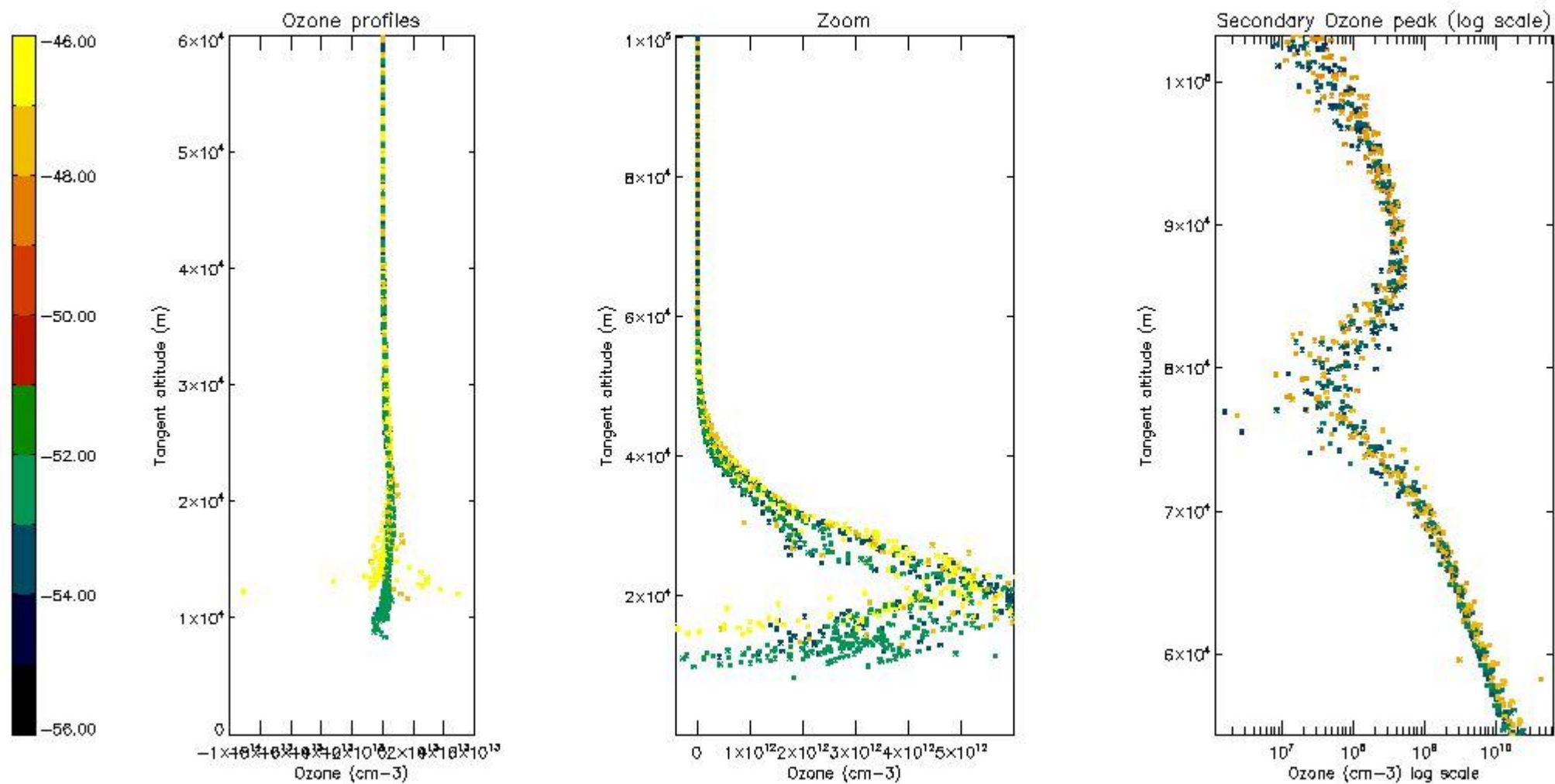
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	28

STD < 10	25
STD < 5	21

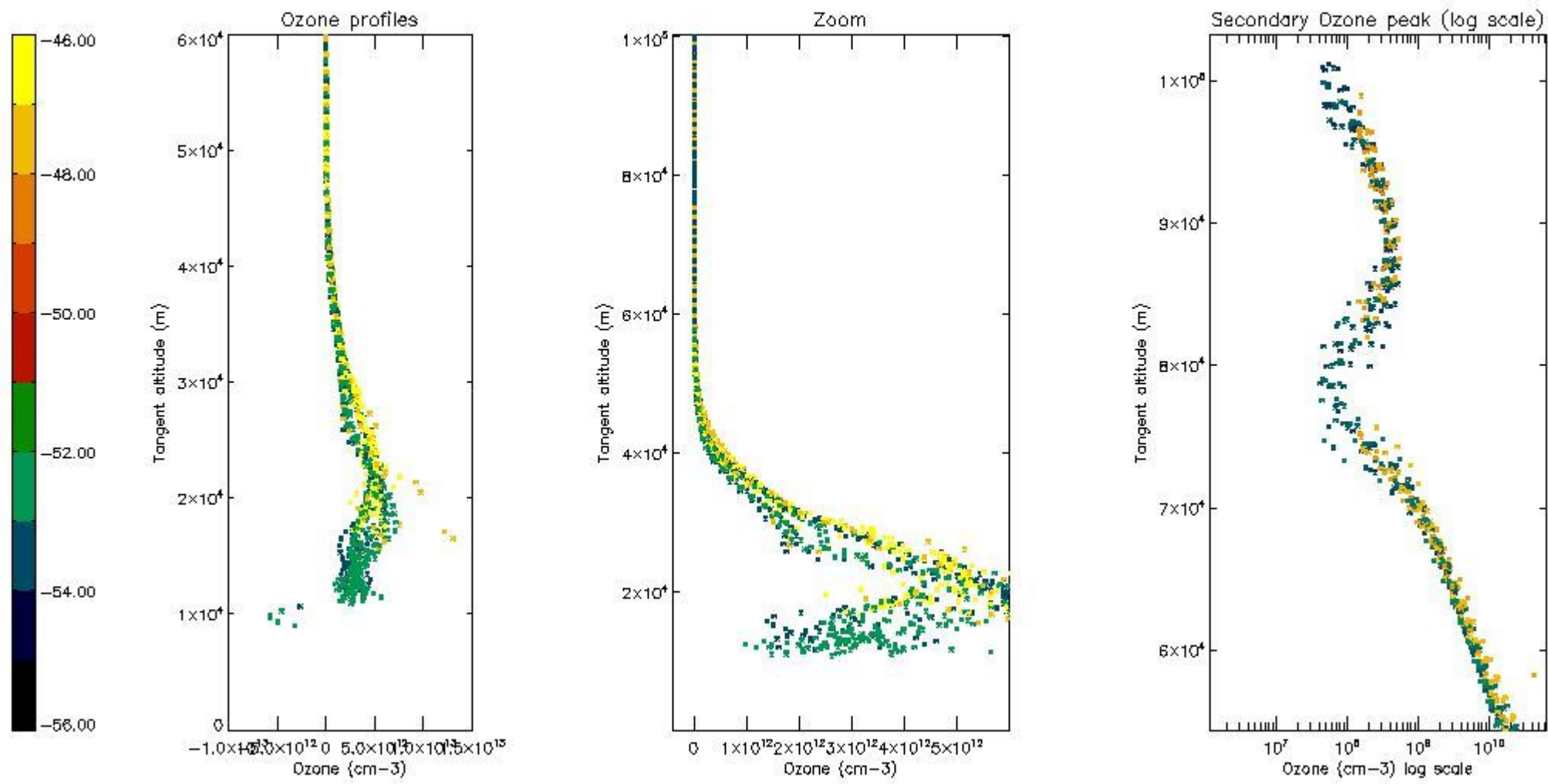
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



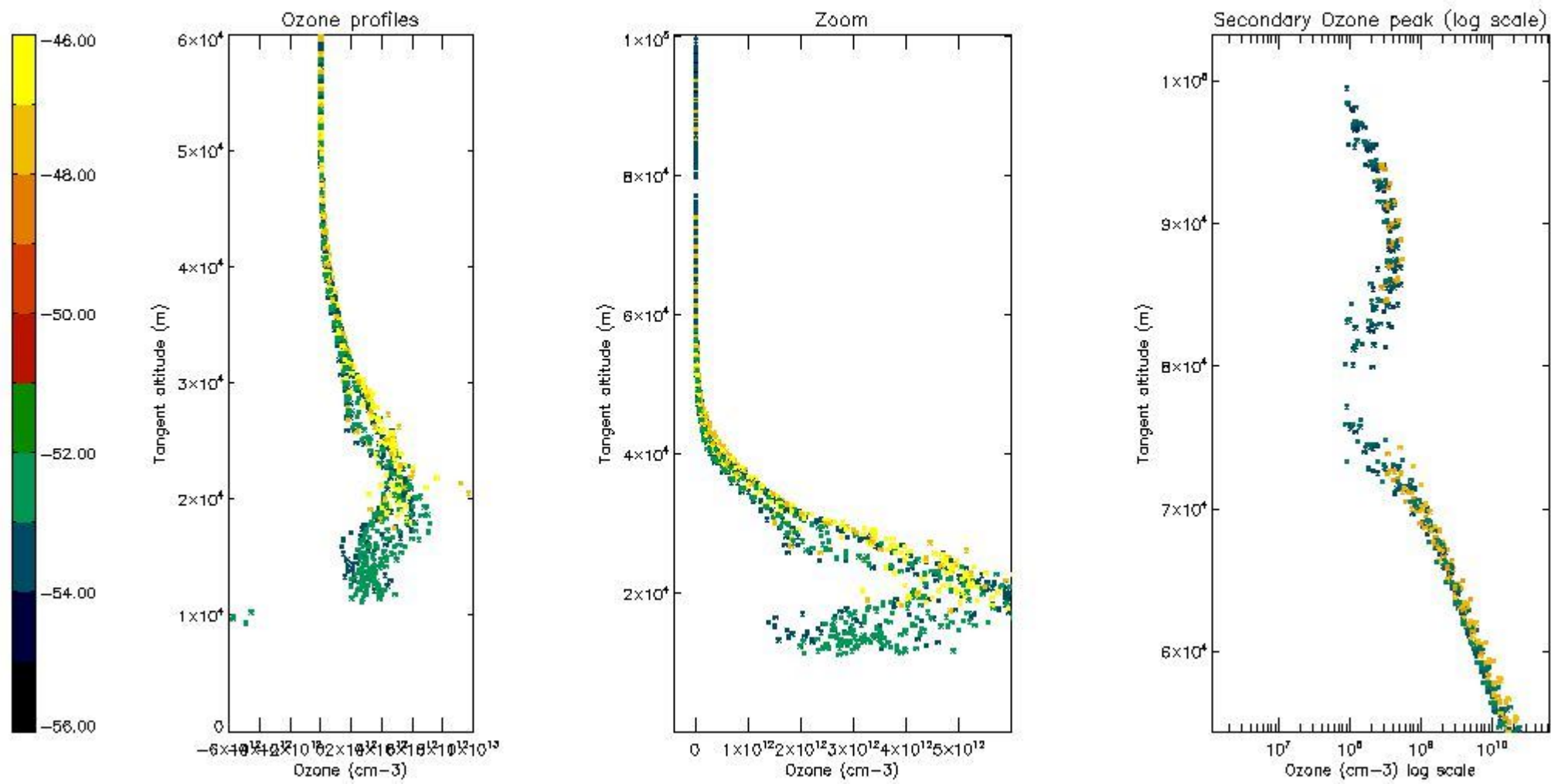
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



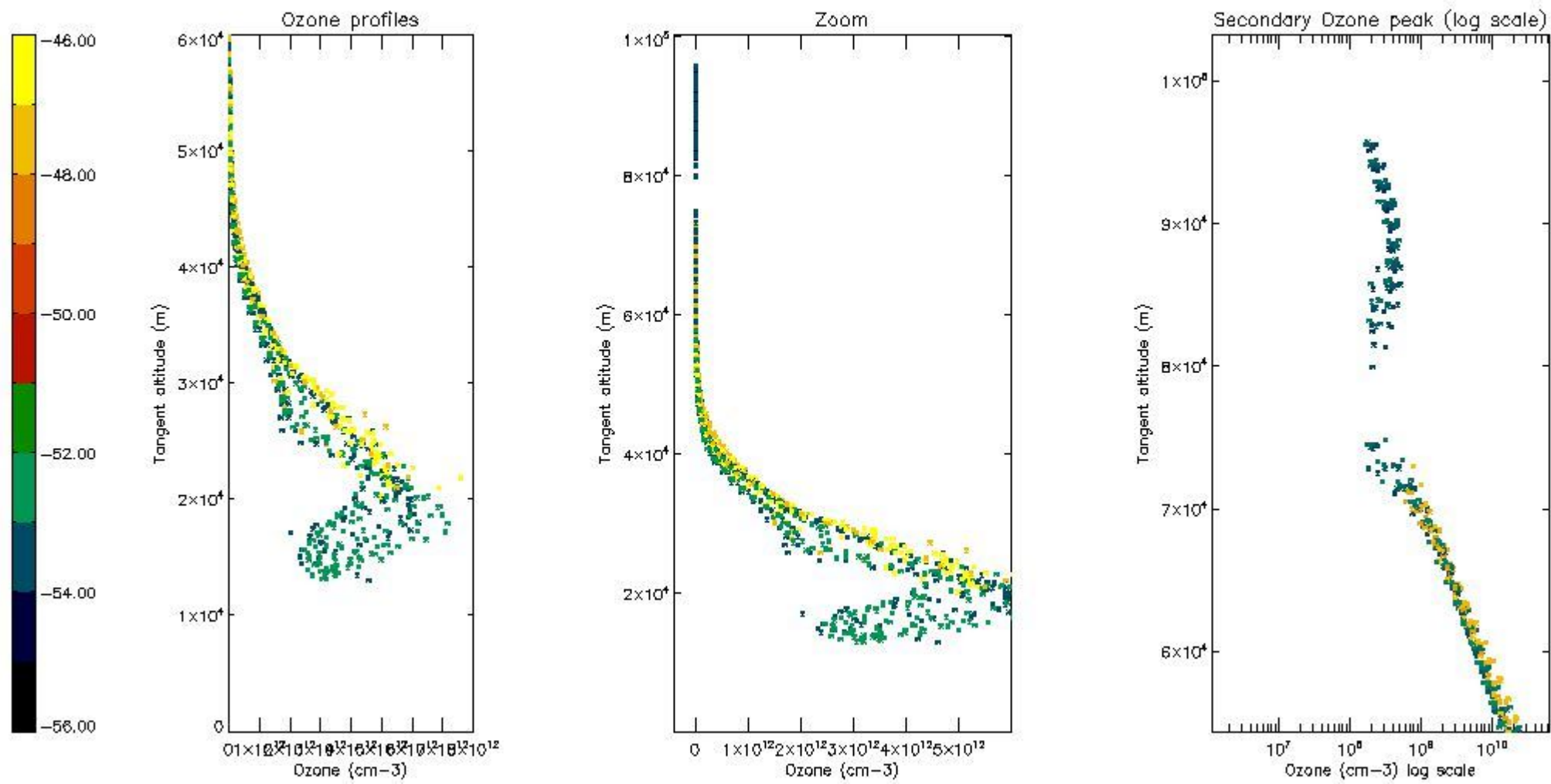
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



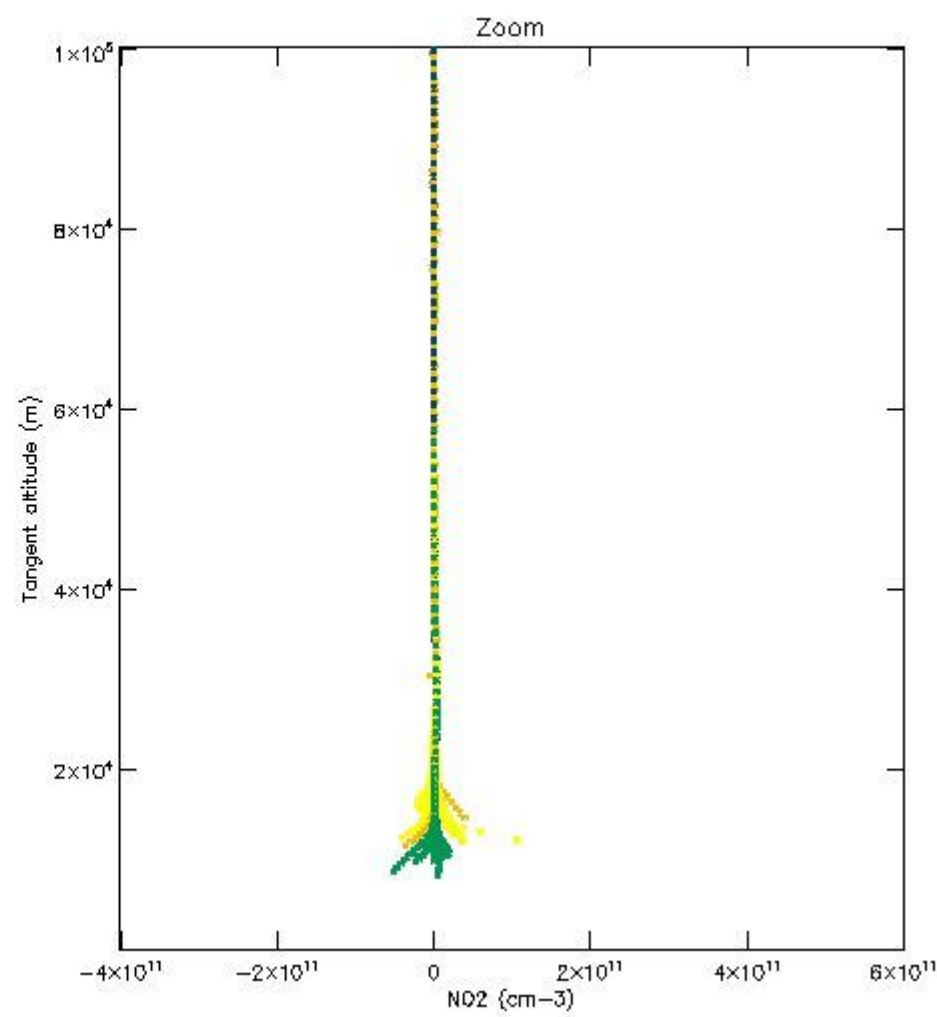
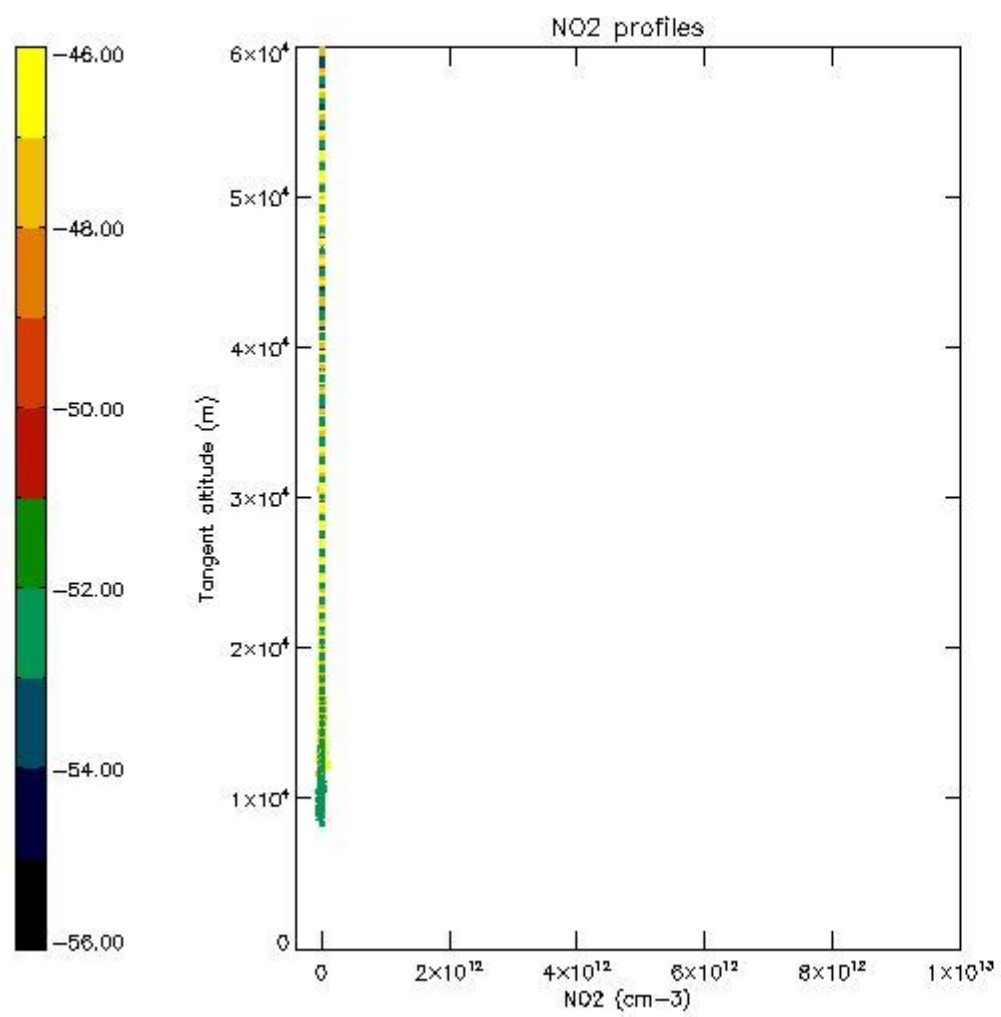
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



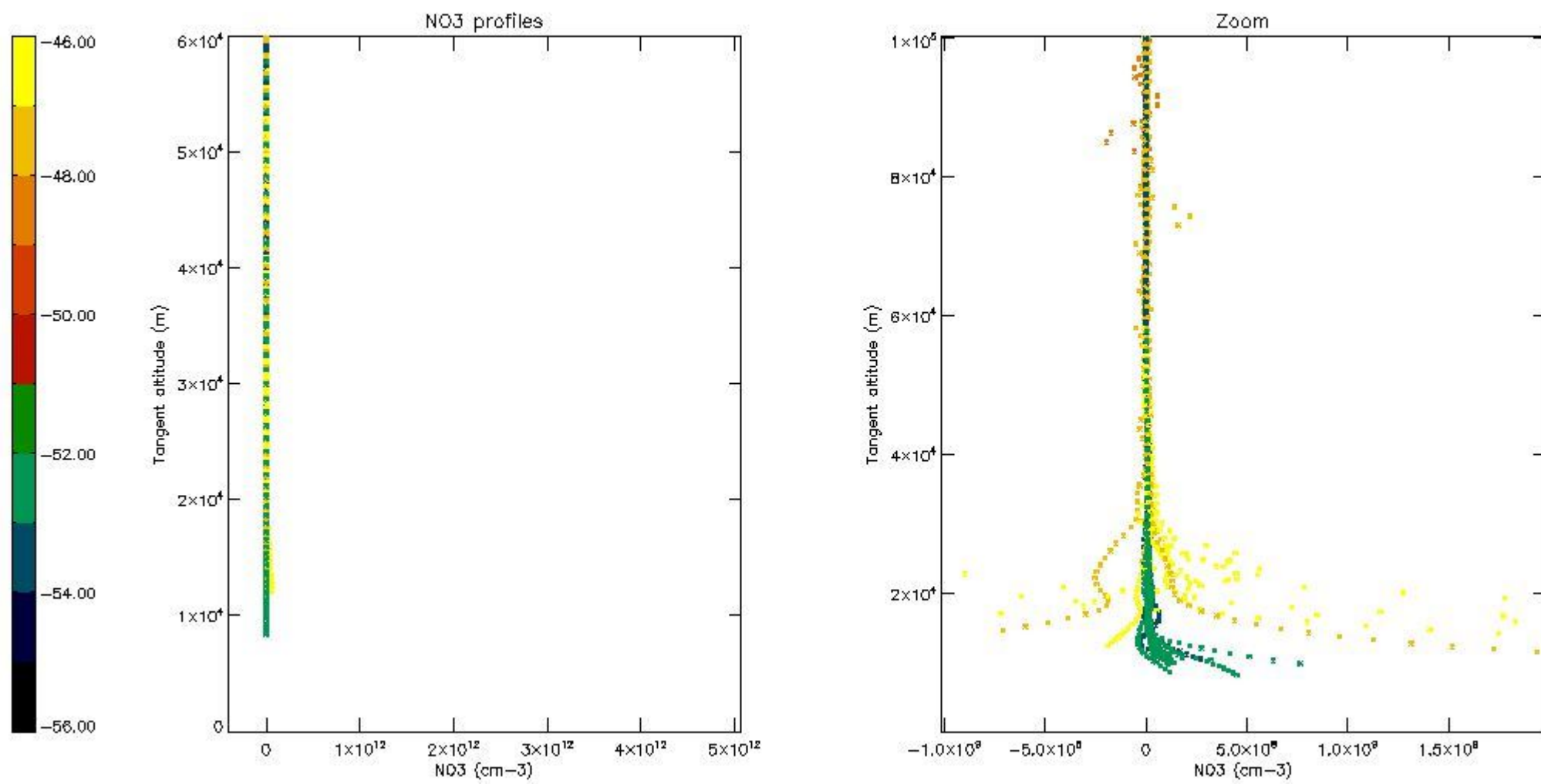
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



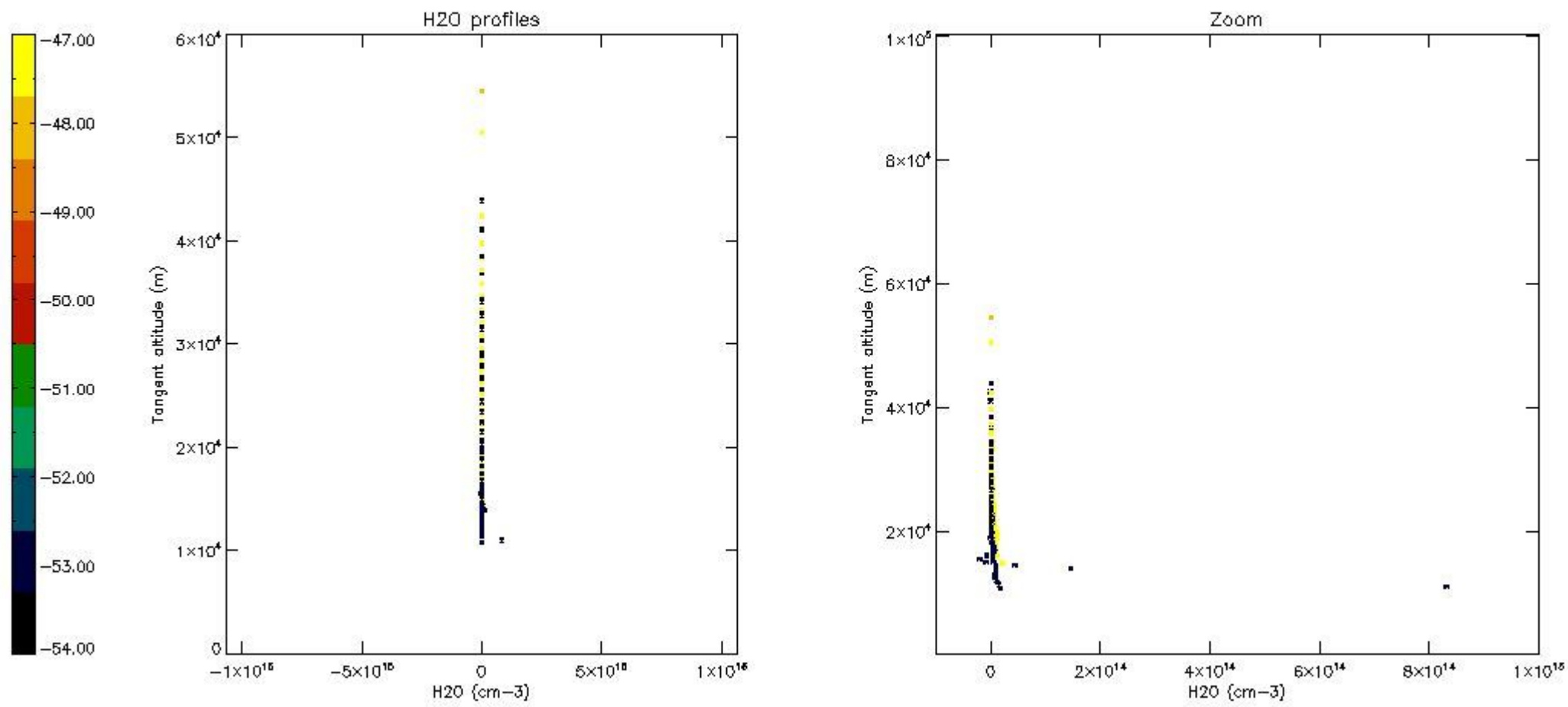
5.7 Plot NO3 profiles for all STD (dark without errors)

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	02-SEP-2011 00:43:08
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-SEP-2011 00:43:08
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-SEP-2011 00:43:08

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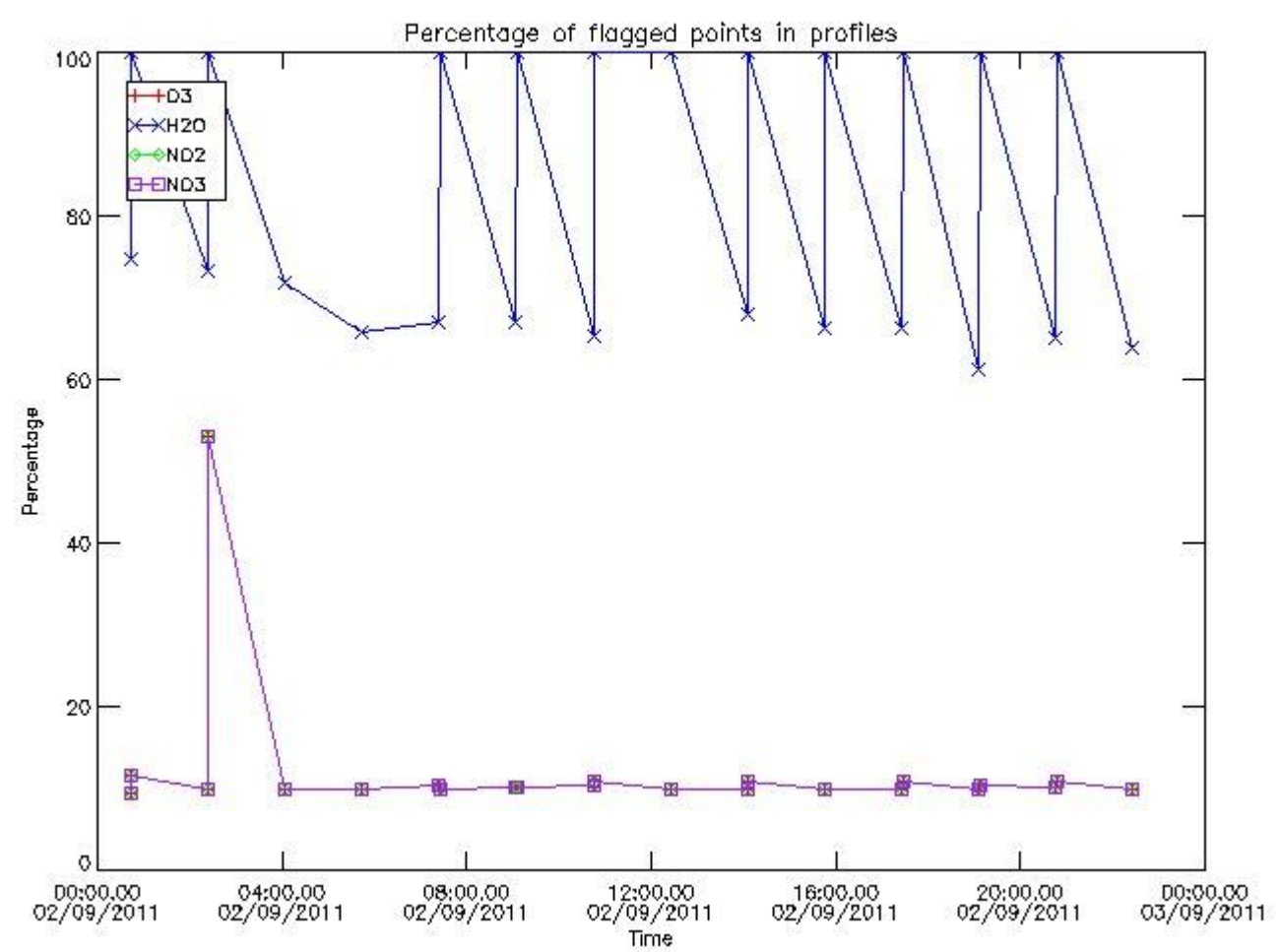
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53	GOM_NL__2PRFIN20110902_190549_000000523106_00142_49725_9800.N1	02-SEP-2011 19:05:49	Dark	52.000	1	9Alp CMa	-1.4400	11000.	104	49725	No
54	GOM_NL__2PRFIN20110902_190710_000000503106_00142_49725_9801.N1	02-SEP-2011 19:07:10	Dark	49.500	47	2Bet CMa	1.9760	28000.	99	49725	No
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56	GOM_NL__2PRFIN20110902_193839_000000483106_00143_49726_9829.N1	02-SEP-2011 19:38:39	Straylight	47.500	18	24Alp PsA	1.1660	9700.0	95	49726	No
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64	GOM_NL__2PRFIN20110902_214823_000000413106_00144_49727_9864.N1	02-SEP-2011 21:48:23	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	49727	No
65	GOM_NL__2PRFIN20110902_222618_000000523106_00144_49727_9865.N1	02-SEP-2011 22:26:18	Dark	51.500	1	9Alp CMa	-1.4400	11000.	103	49727	No
66	GOM_NL__2PRFIN20110902_225314_000000483106_00145_49728_9887.N1	02-SEP-2011 22:53:14	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	49728	No
67	GOM_NL__2PRFIN20110902_232837_000000413106_00145_49728_9888.N1	02-SEP-2011 23:28:37	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	49728	No

3. Quality information per product

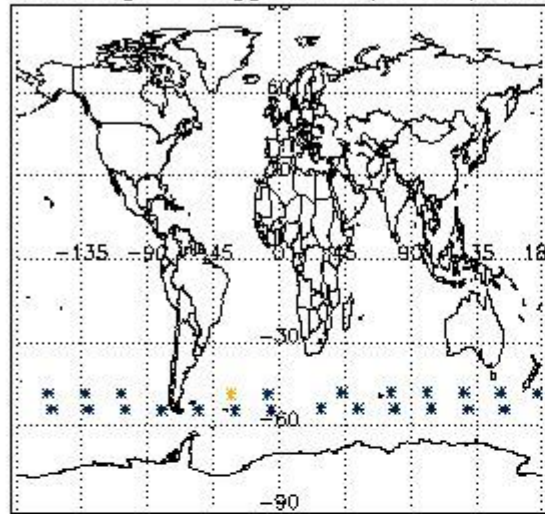
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

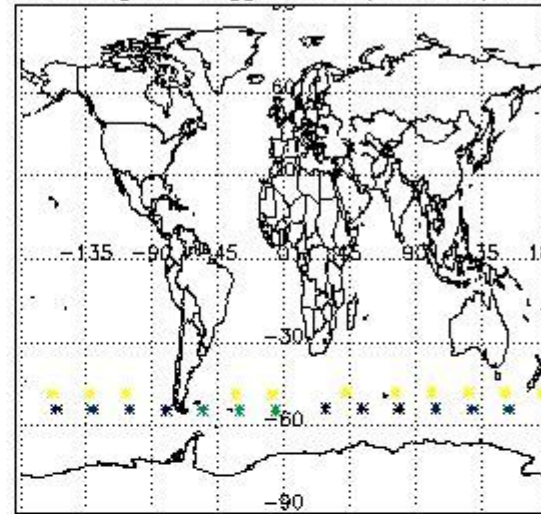


3.2 Plot quality information per product (world map)

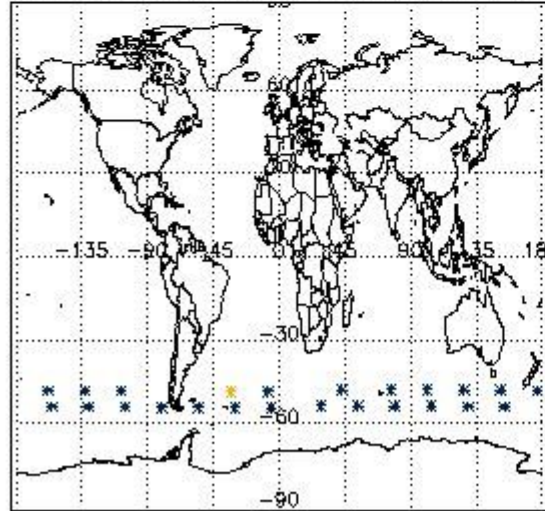
Percentage of flagged data per O3 profile



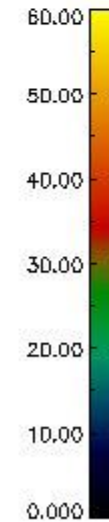
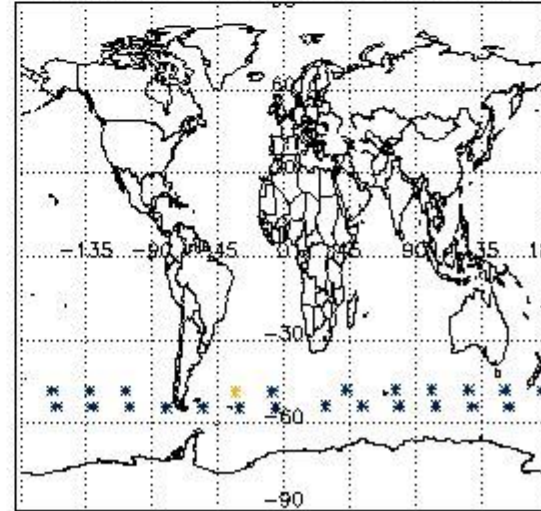
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

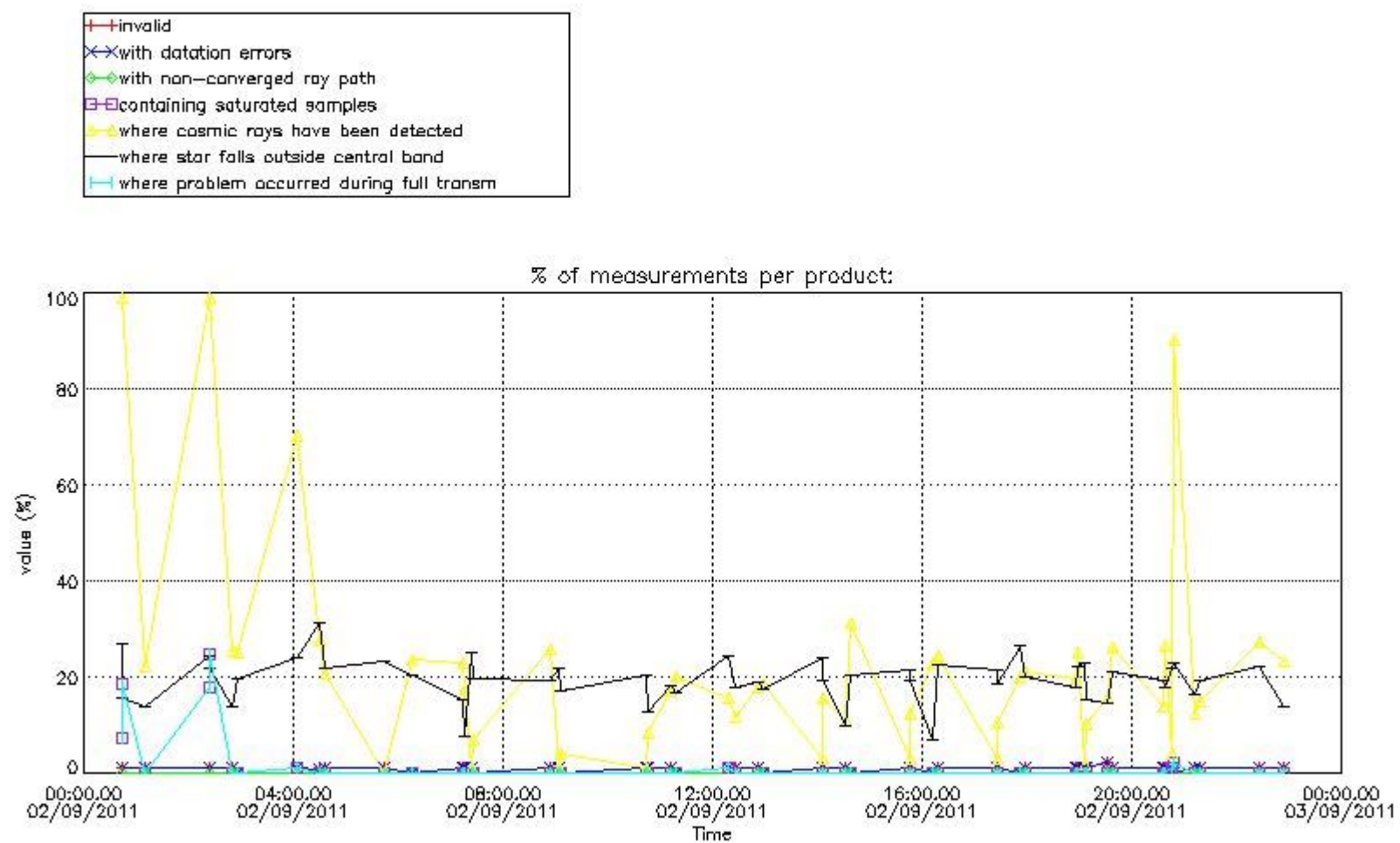


4. Level 1 quality information per product

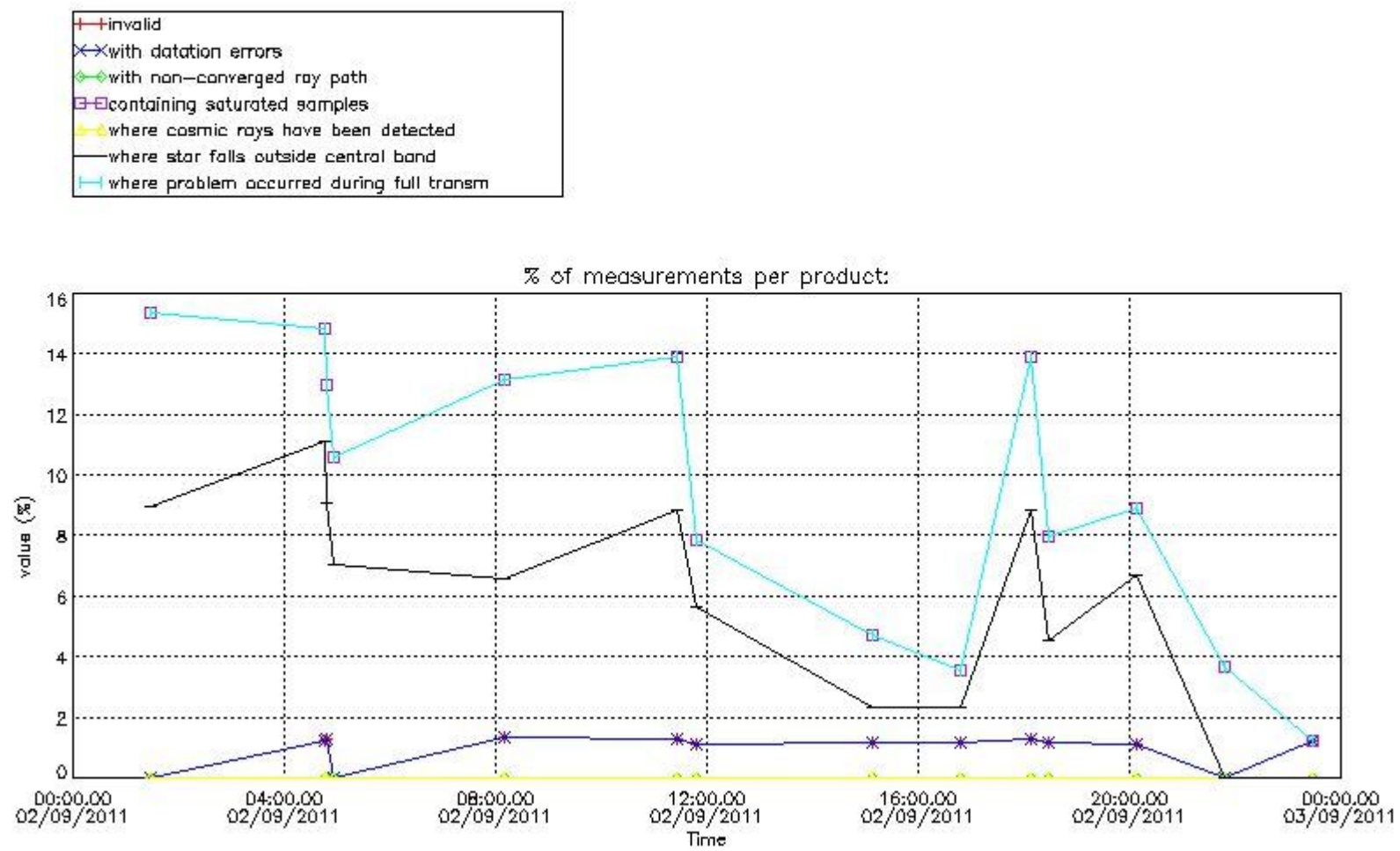
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



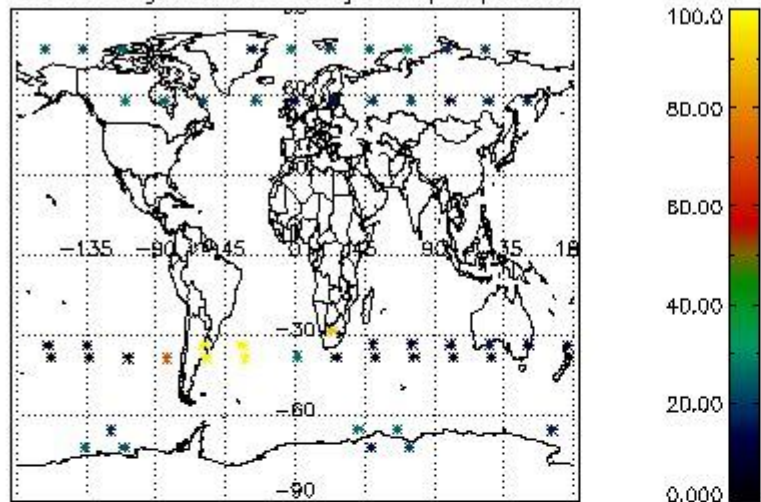
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



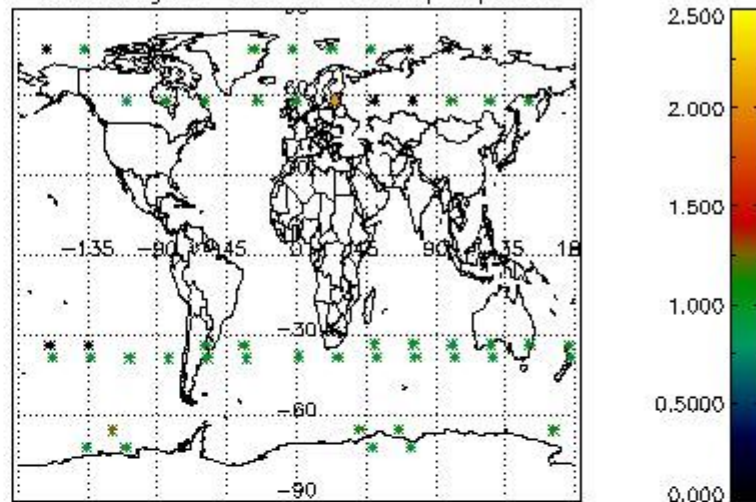
4.2 Plot quality information per product coming from level 1b processing (world map)

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

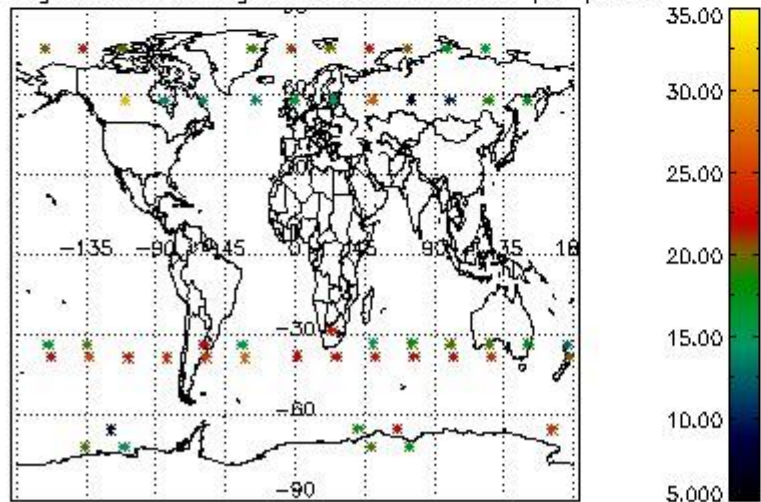
Percentage of cosmic ray hits per profile



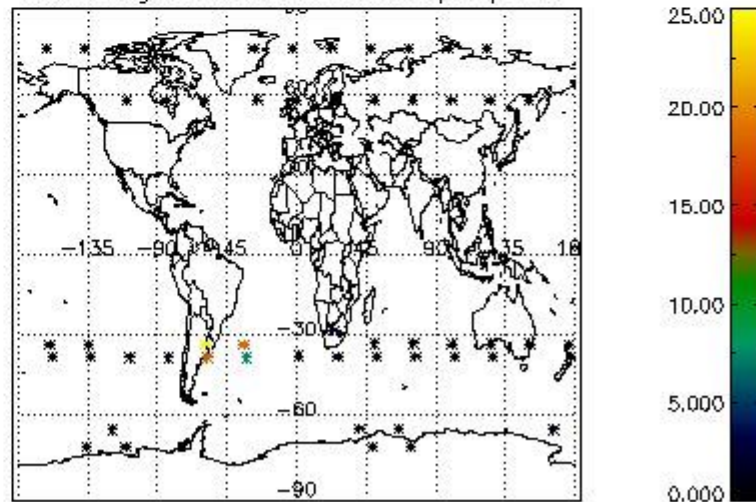
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

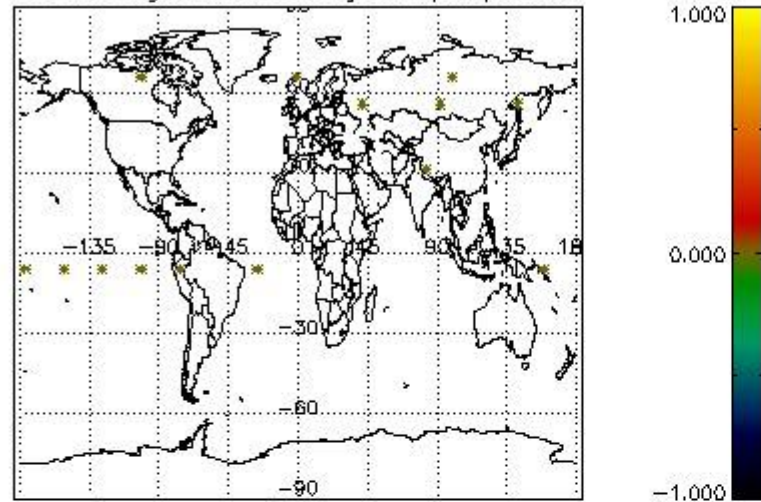


Percentage of saturation errors per profile

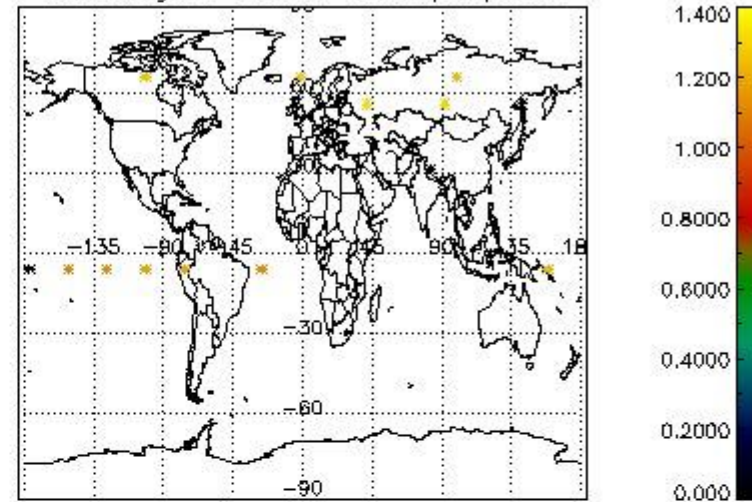


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

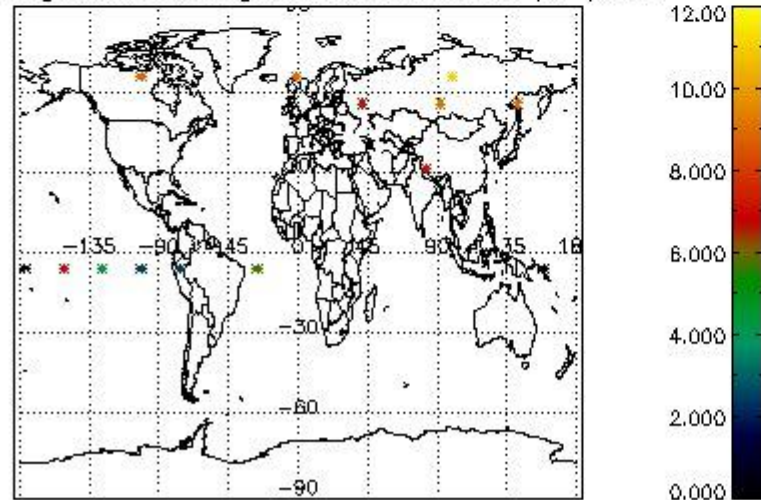
Percentage of cosmic ray hits per profile



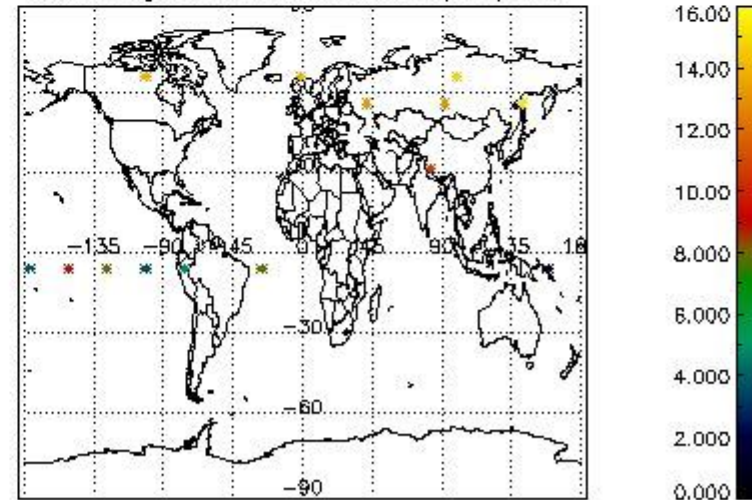
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

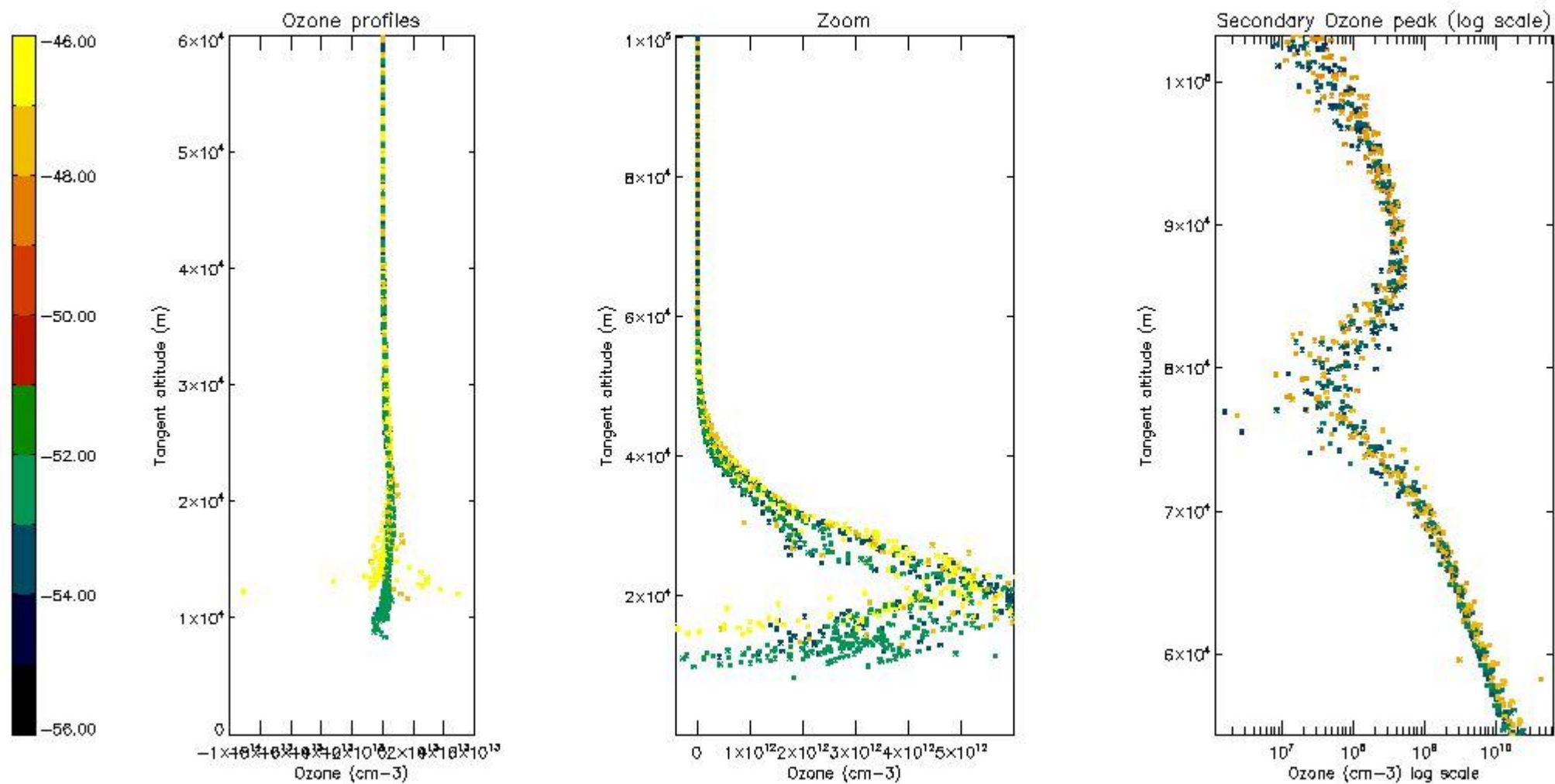
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	28

STD < 10	25
STD < 5	21

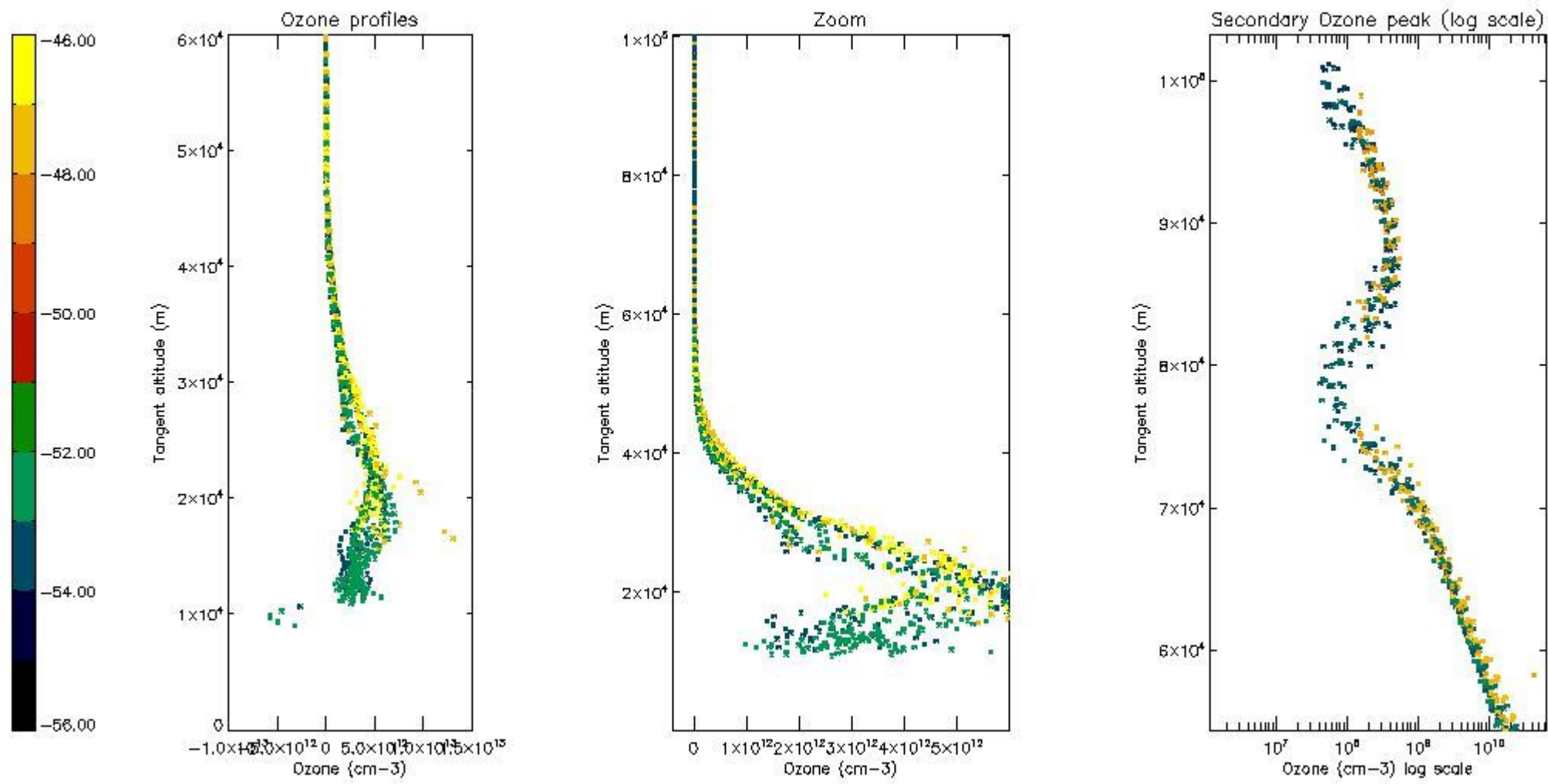
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



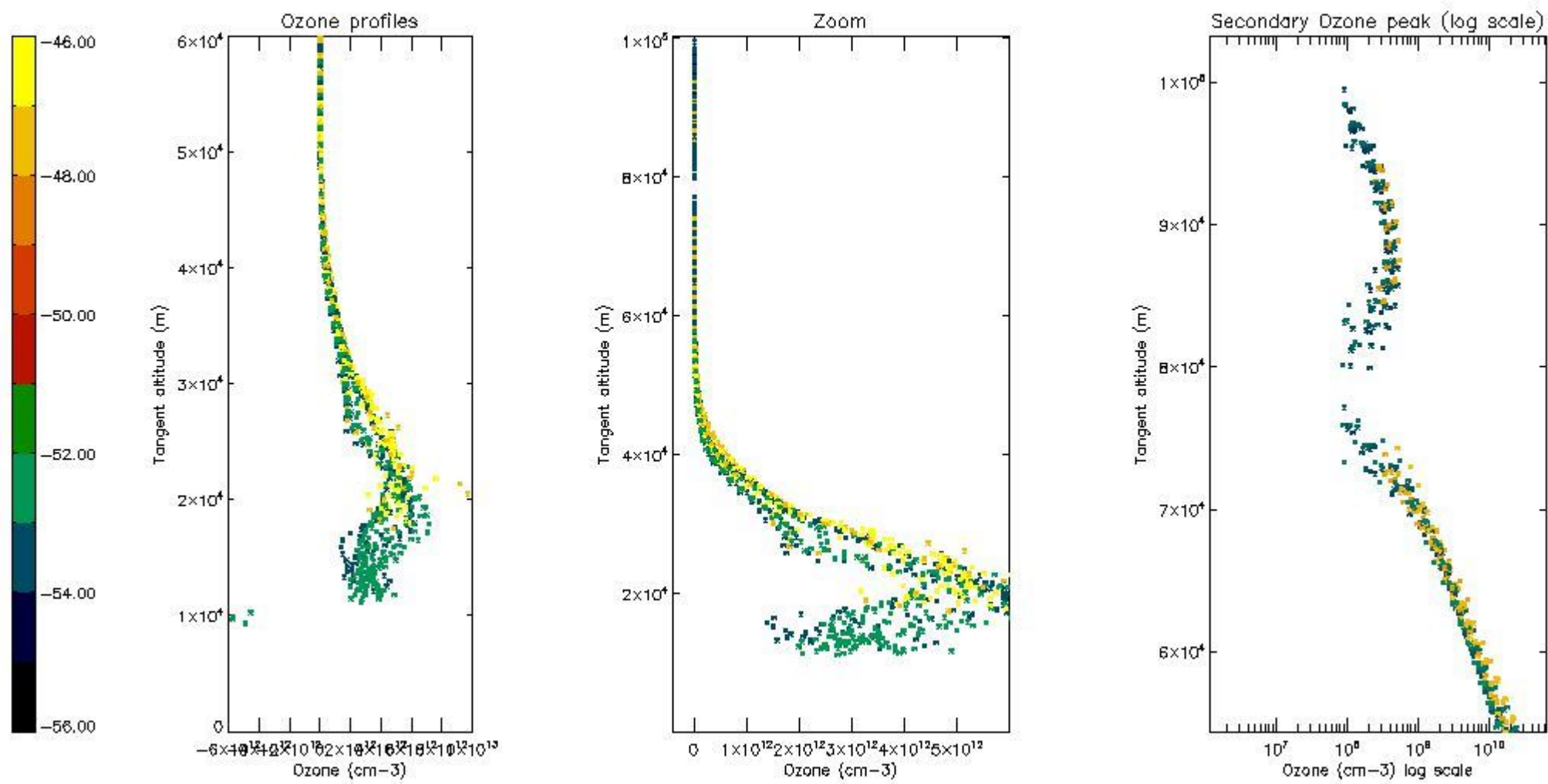
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



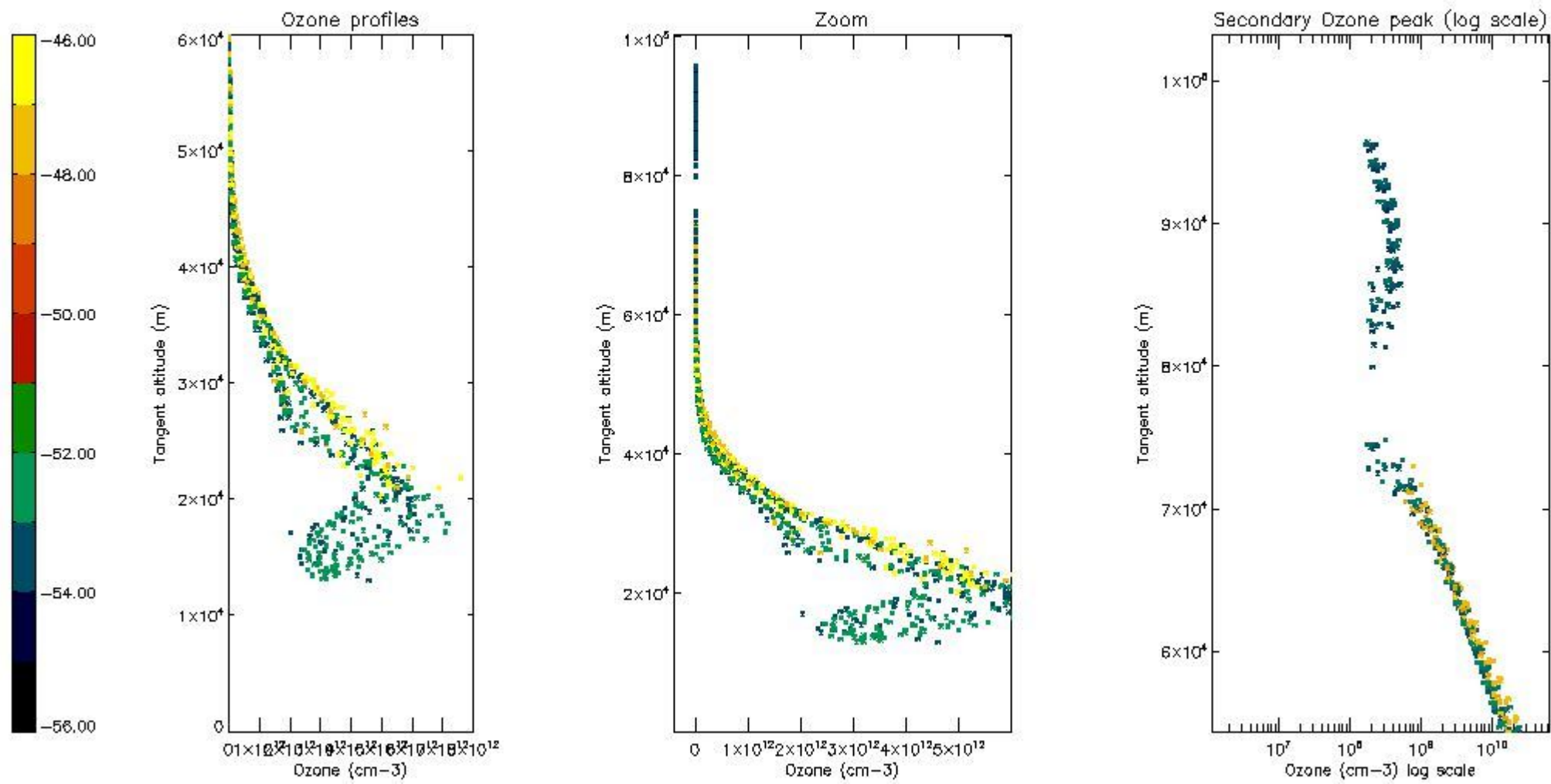
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



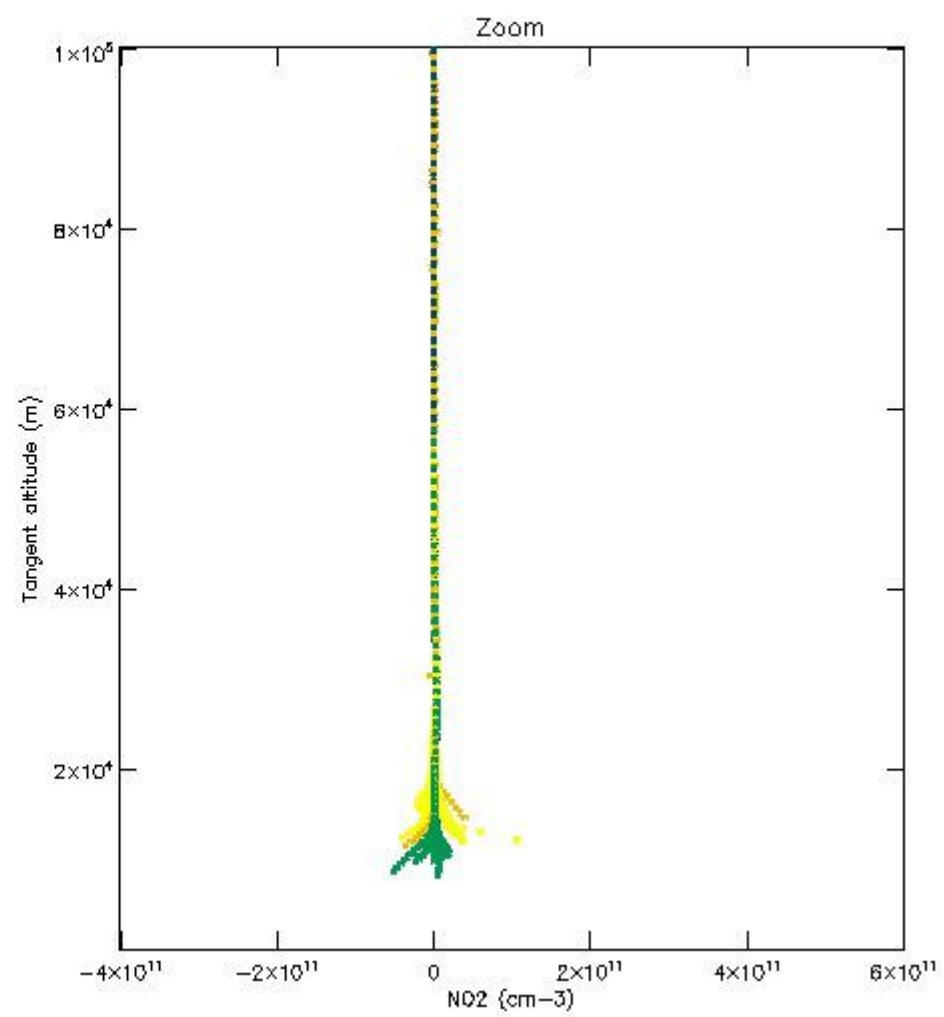
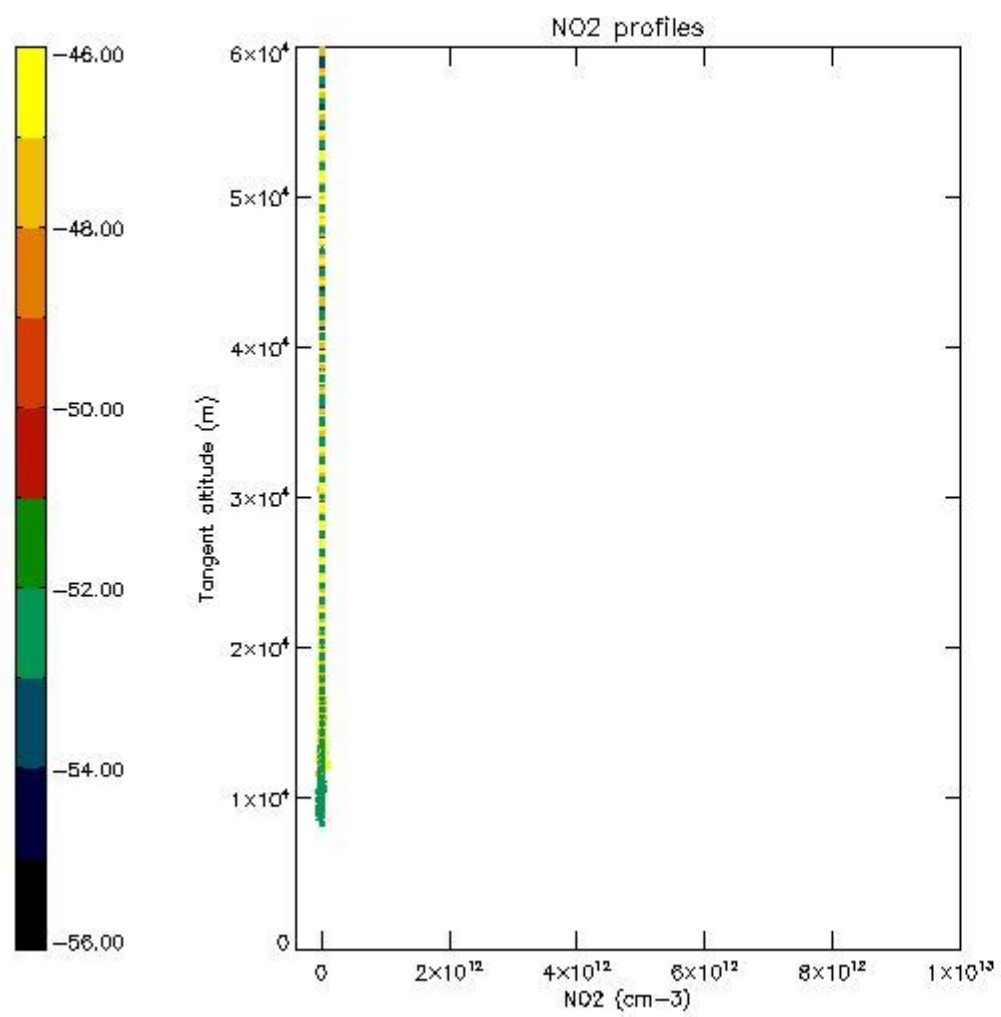
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



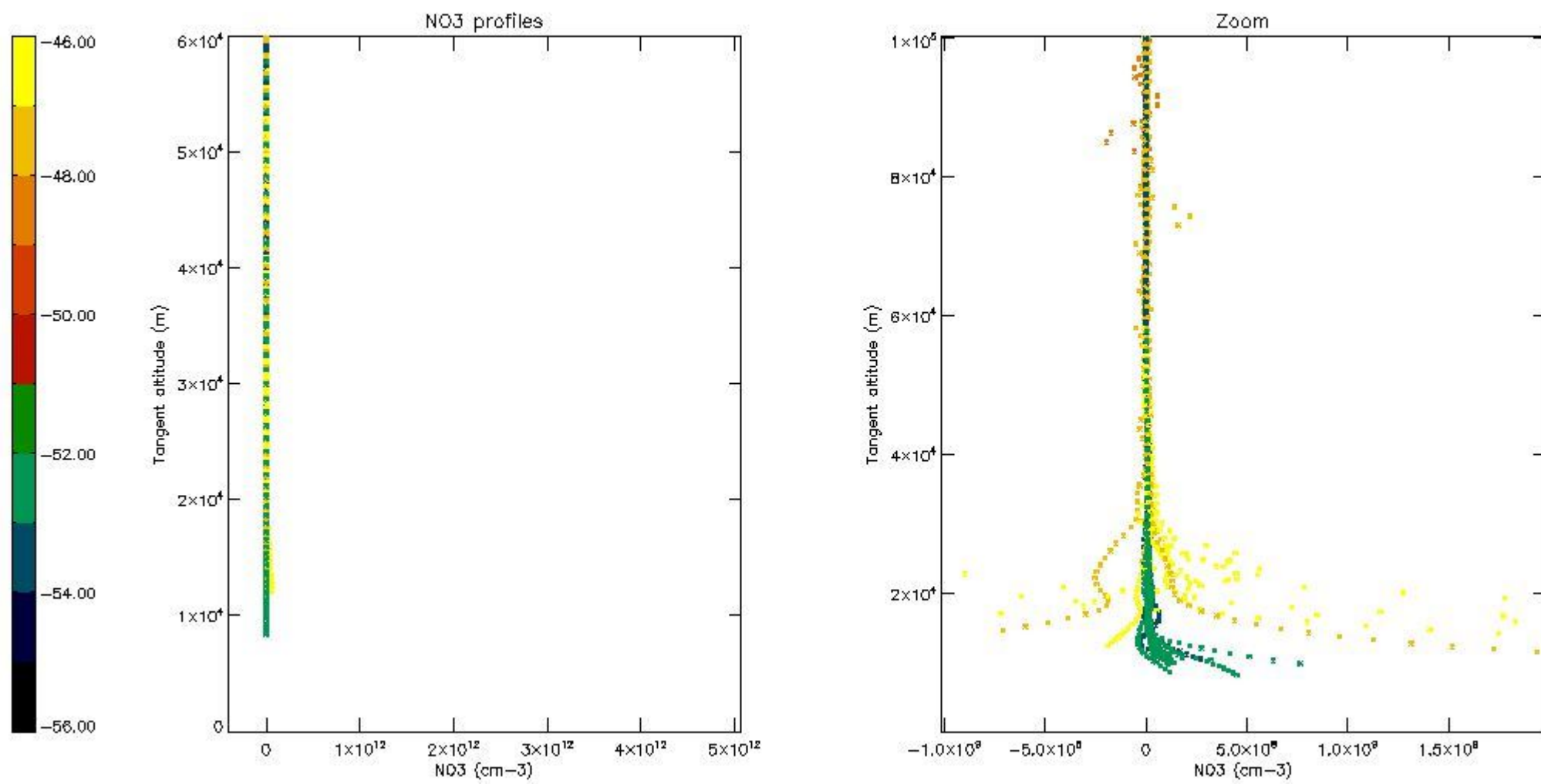
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



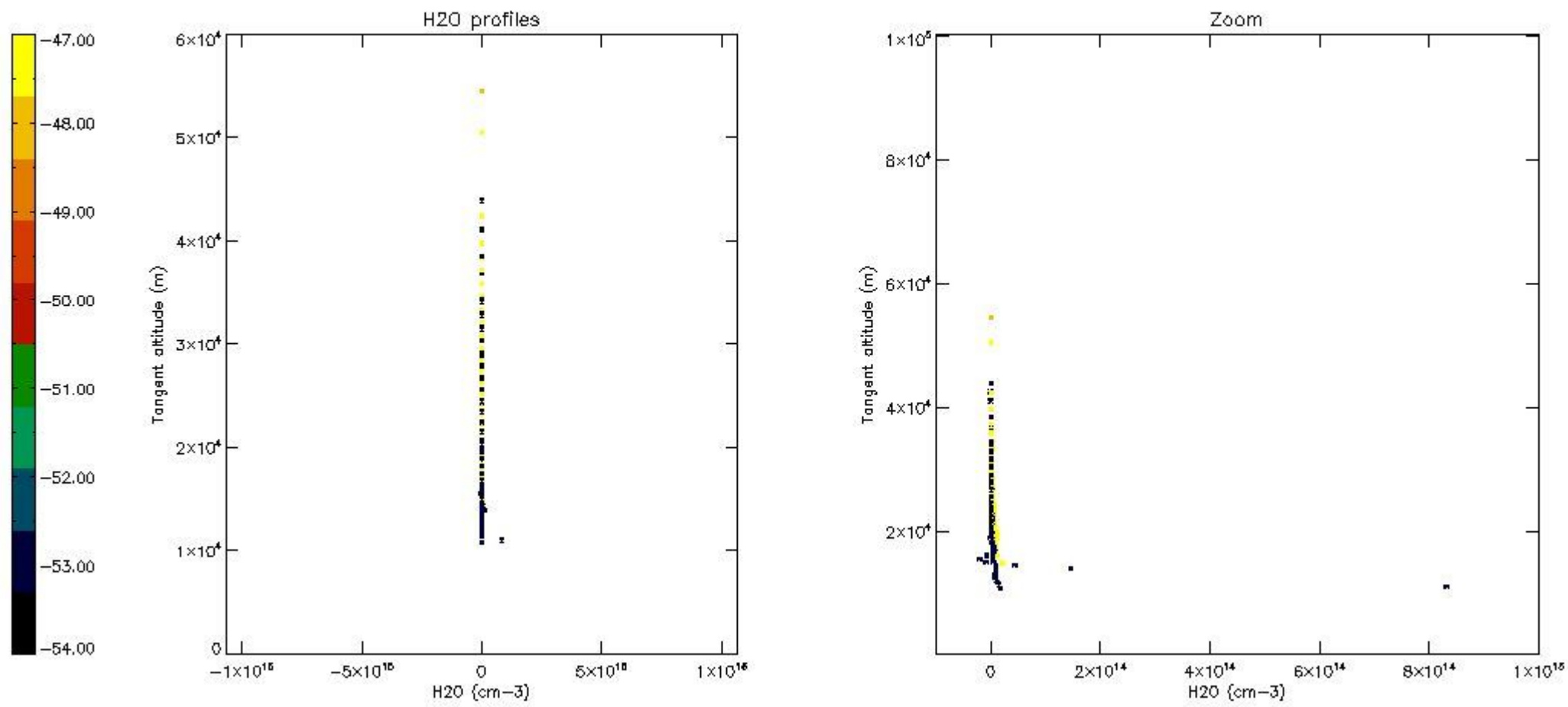
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

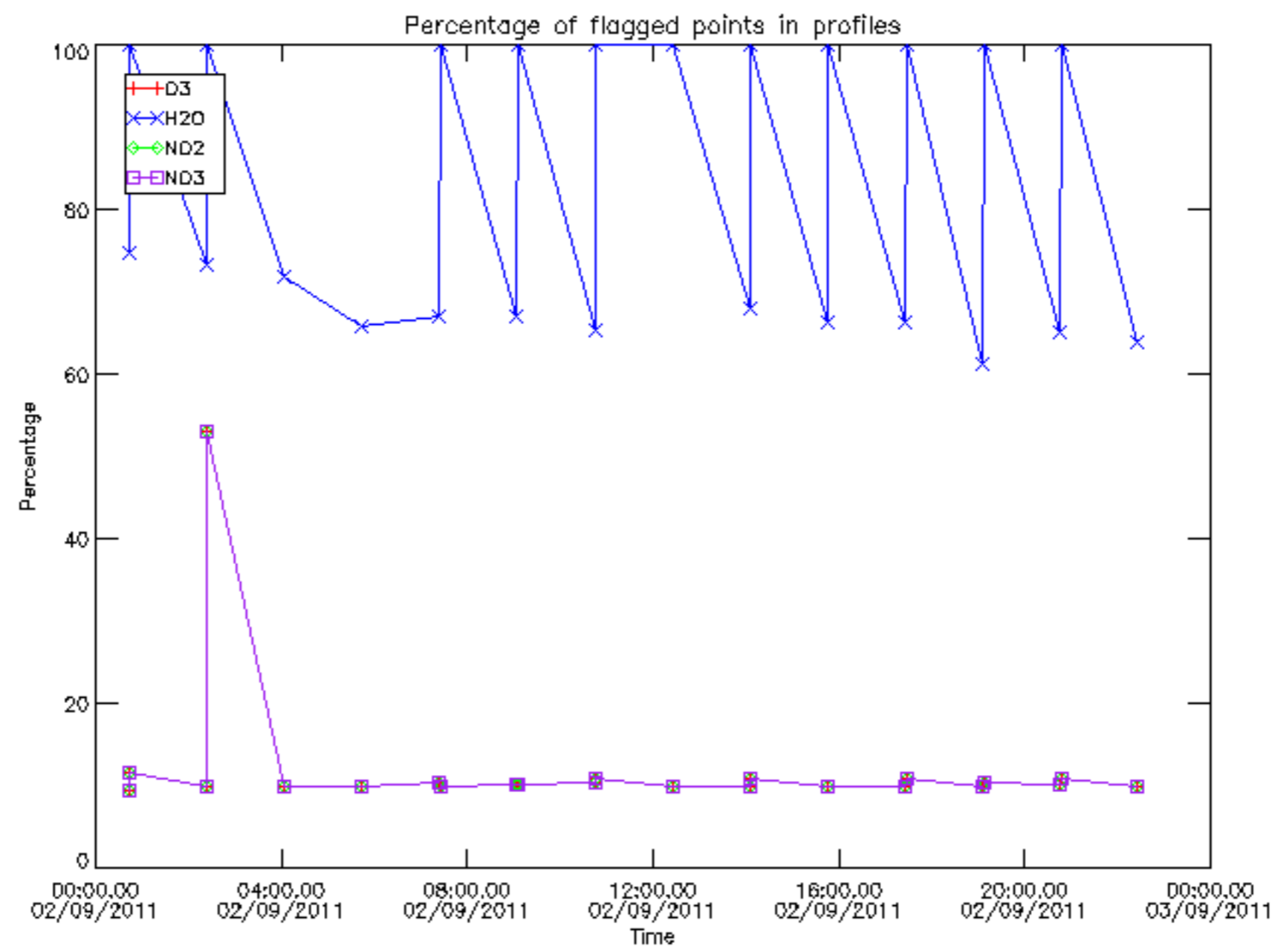
The colorbar represents the latitude.



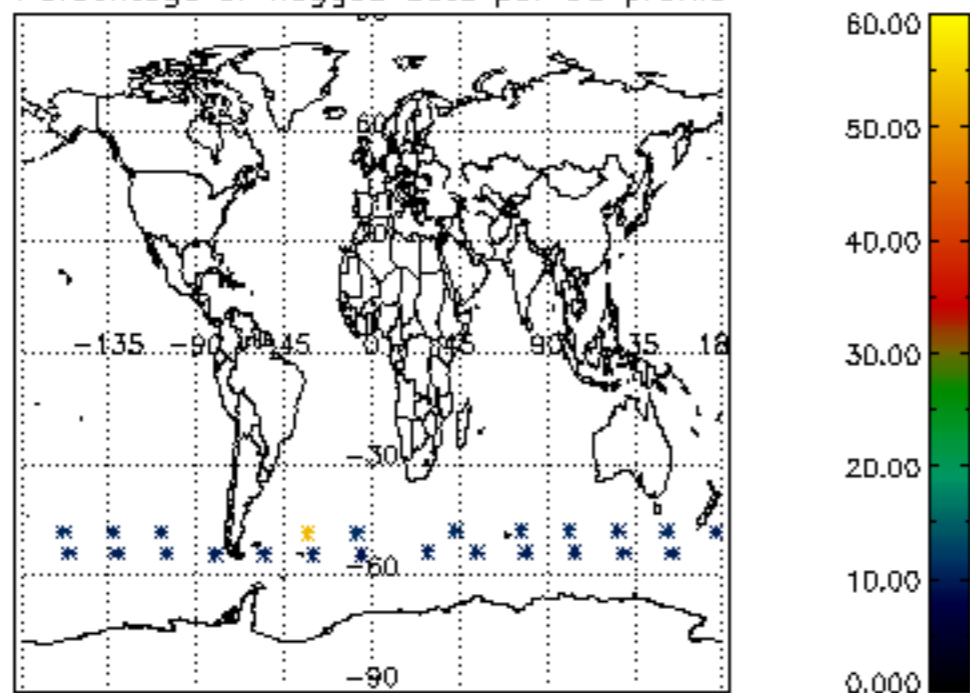
6. Auxiliary Data Files used for the production reported in section 2

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.

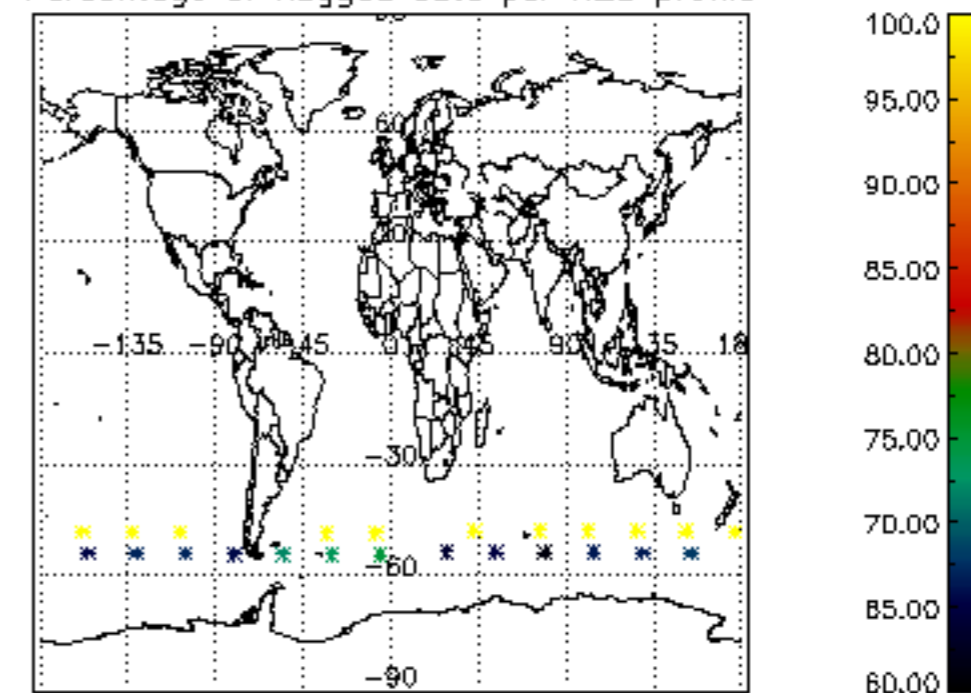
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	02-SEP-2011 00:43:08
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-SEP-2011 00:43:08
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-SEP-2011 00:43:08



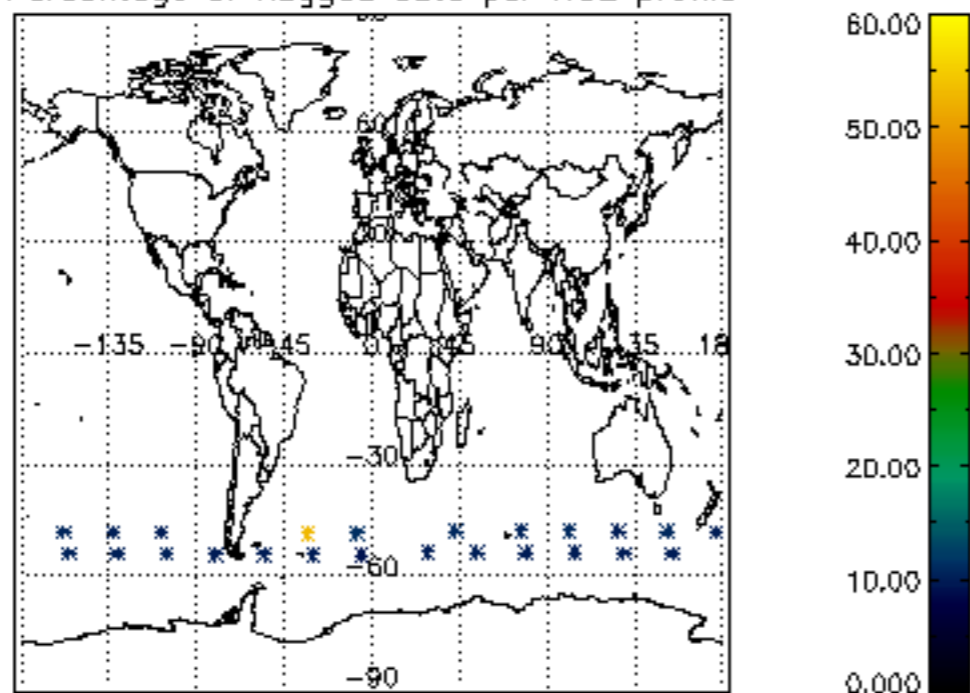
Percentage of flagged data per D3 profile



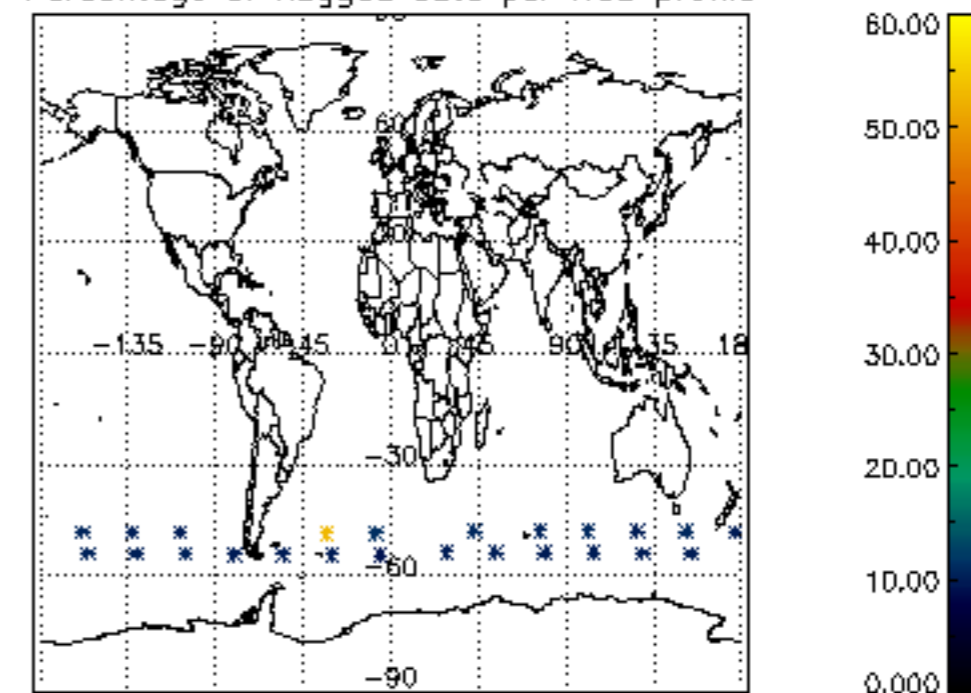
Percentage of flagged data per H2O profile

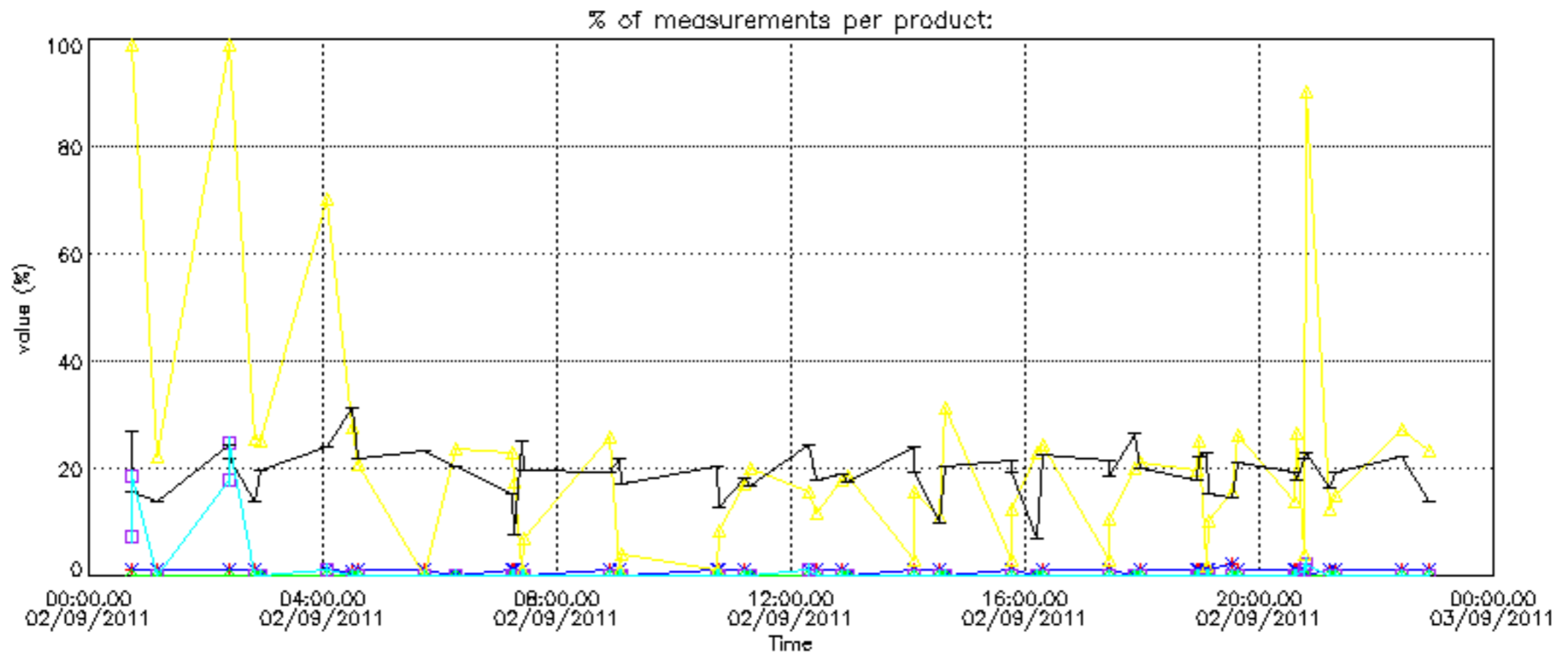


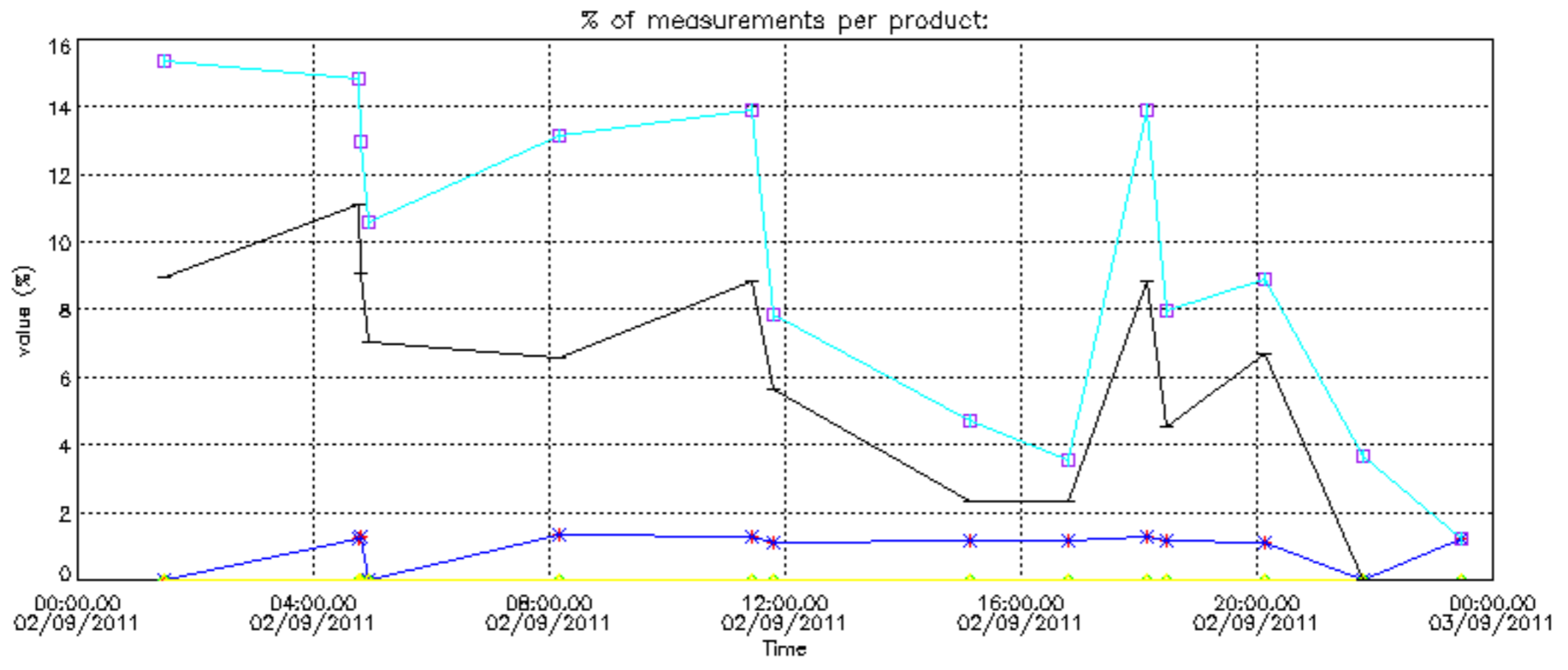
Percentage of flagged data per NO2 profile



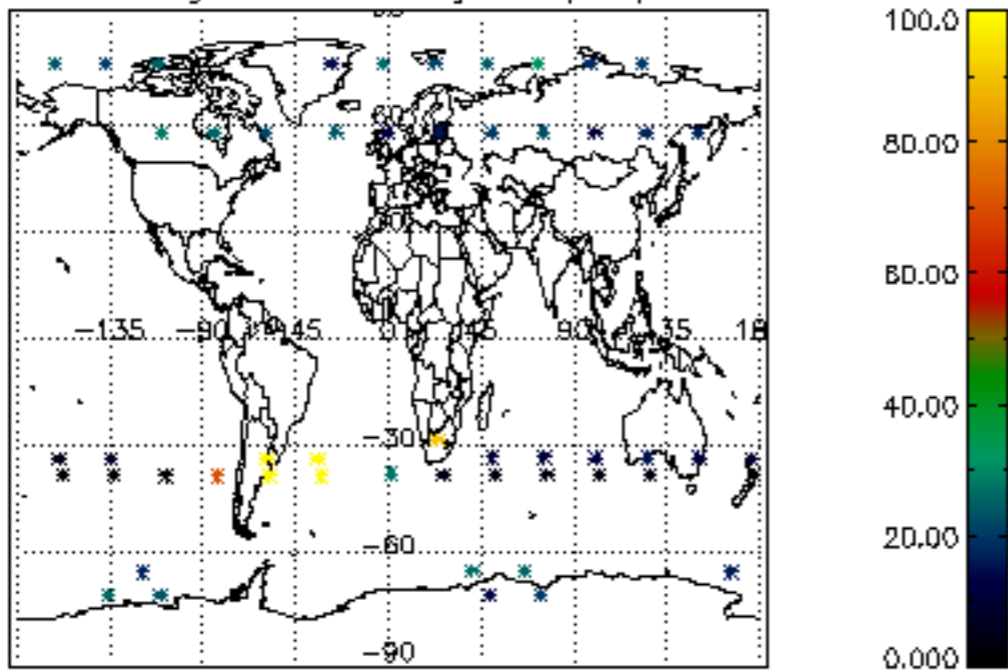
Percentage of flagged data per NO3 profile



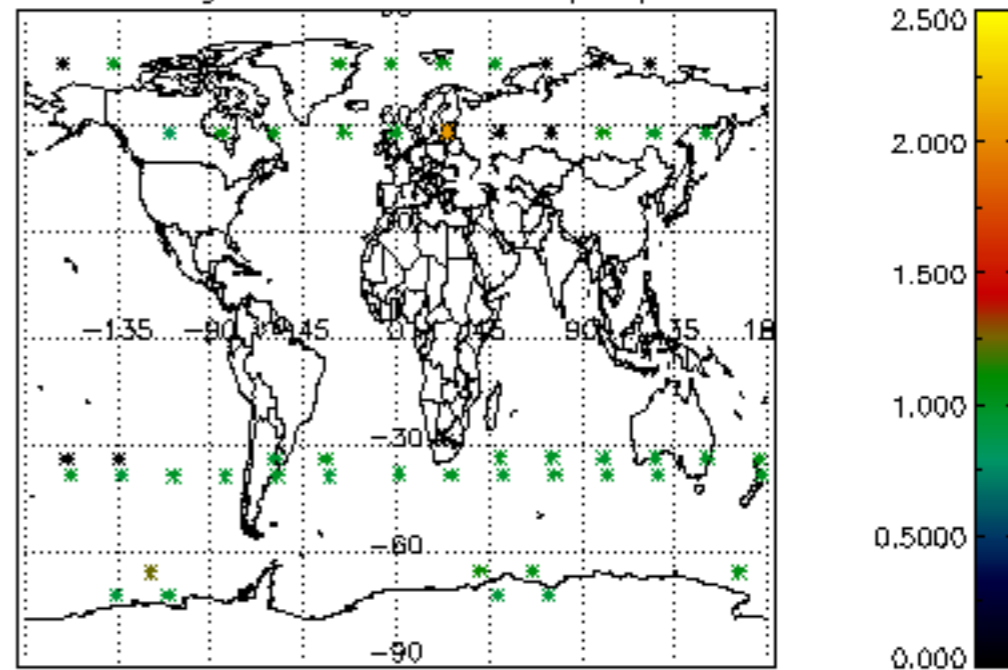




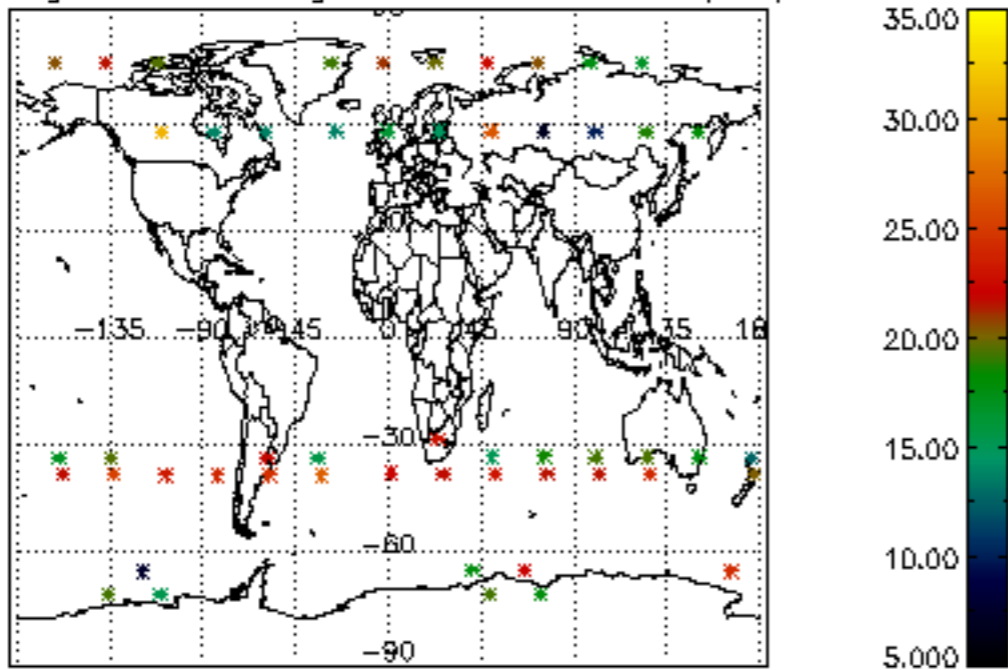
Percentage of cosmic ray hits per profile



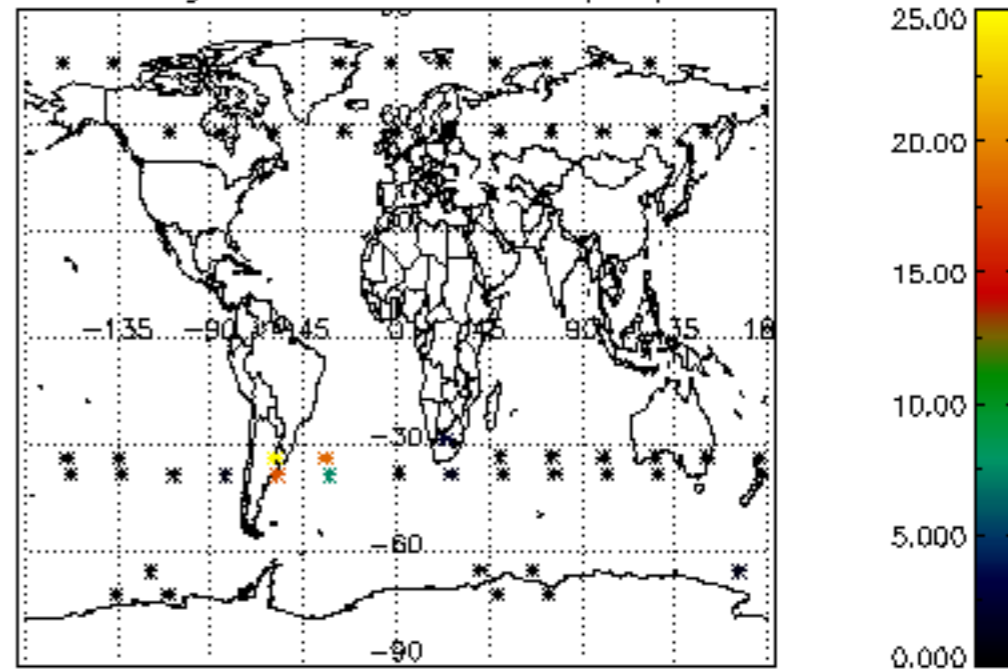
Percentage of datation errors per profile



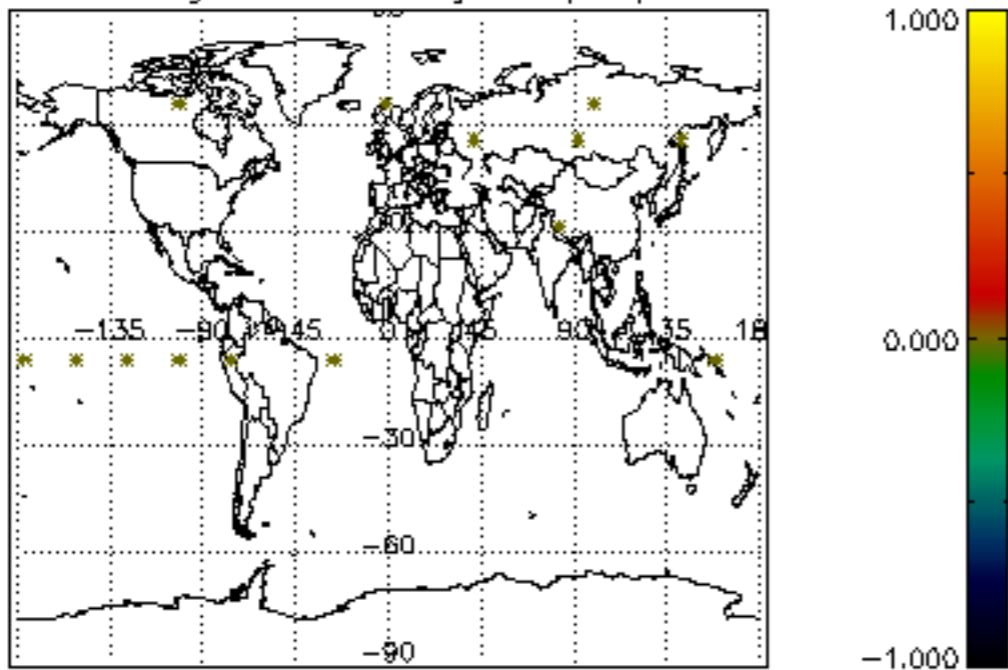
Percentage of star falling outside central band per profile



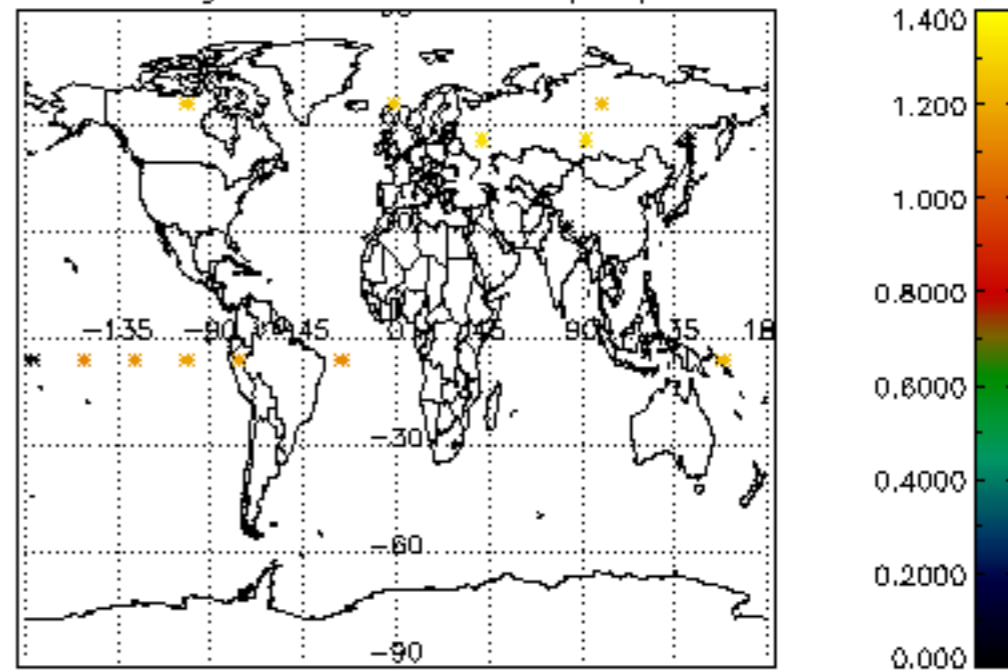
Percentage of saturation errors per profile



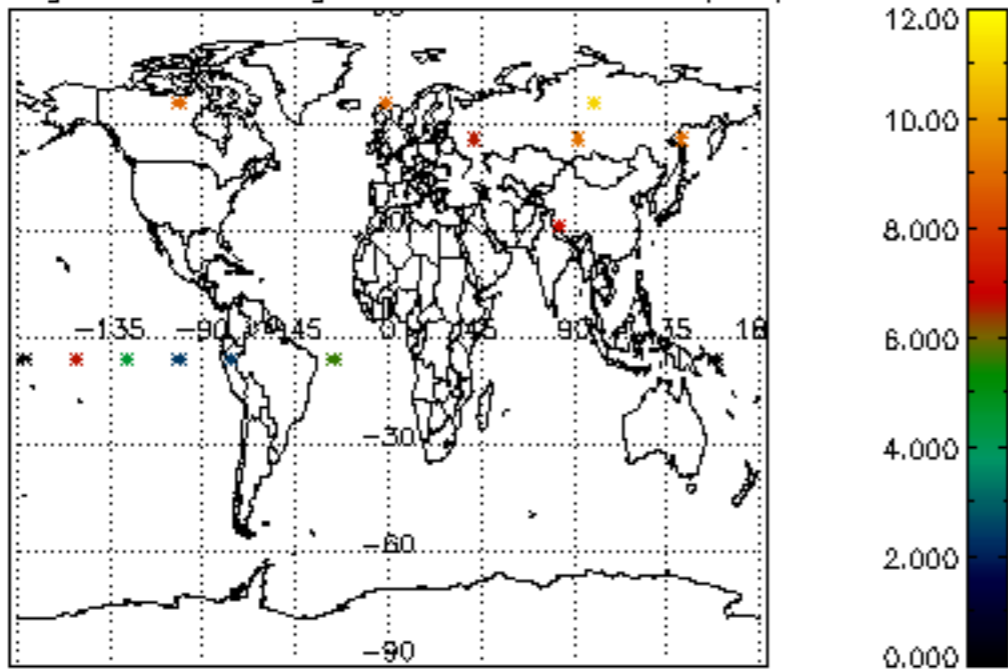
Percentage of cosmic ray hits per profile



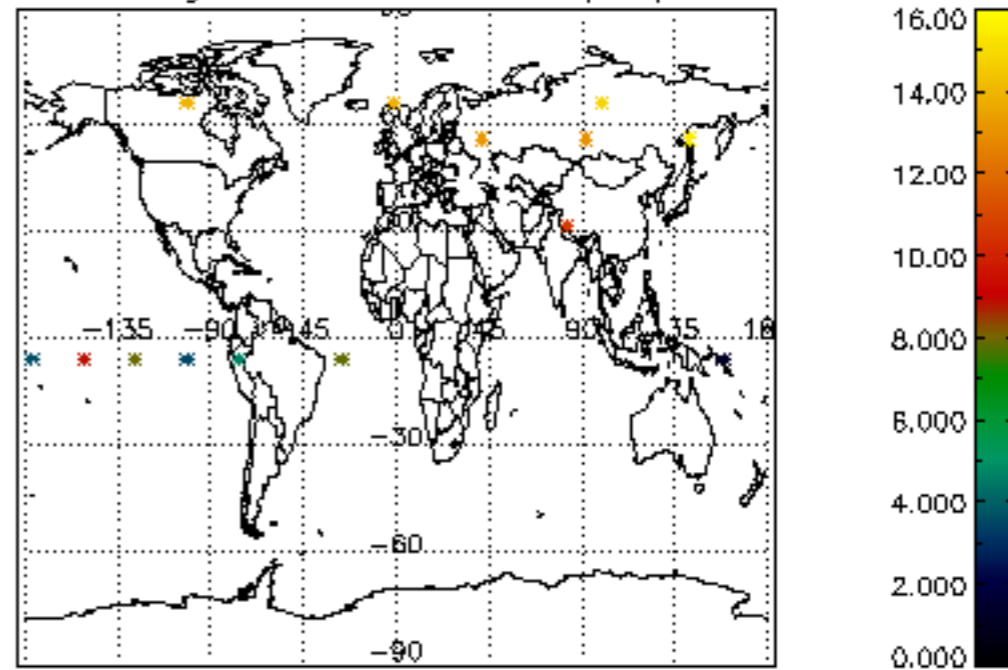
Percentage of datation errors per profile

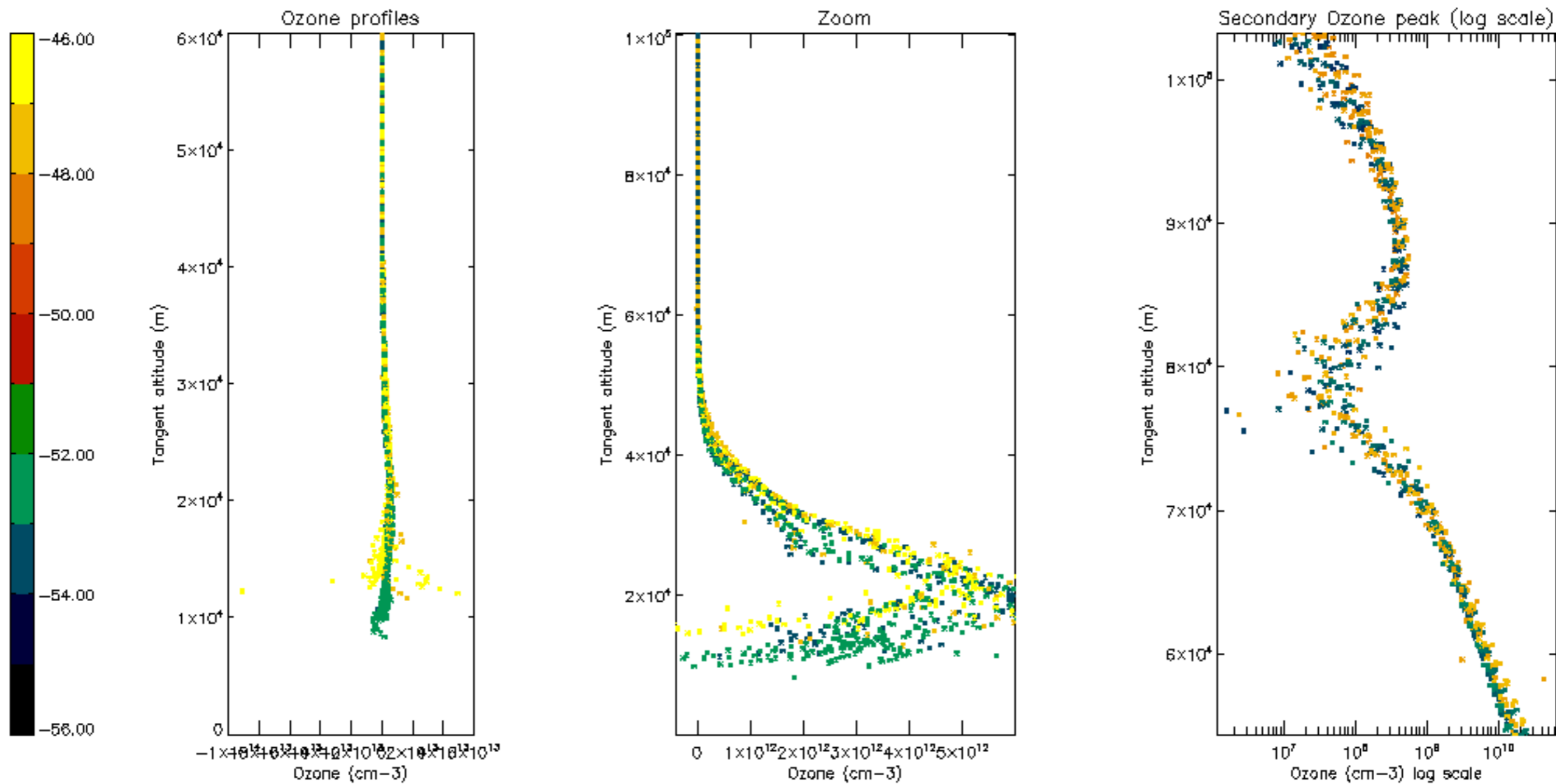


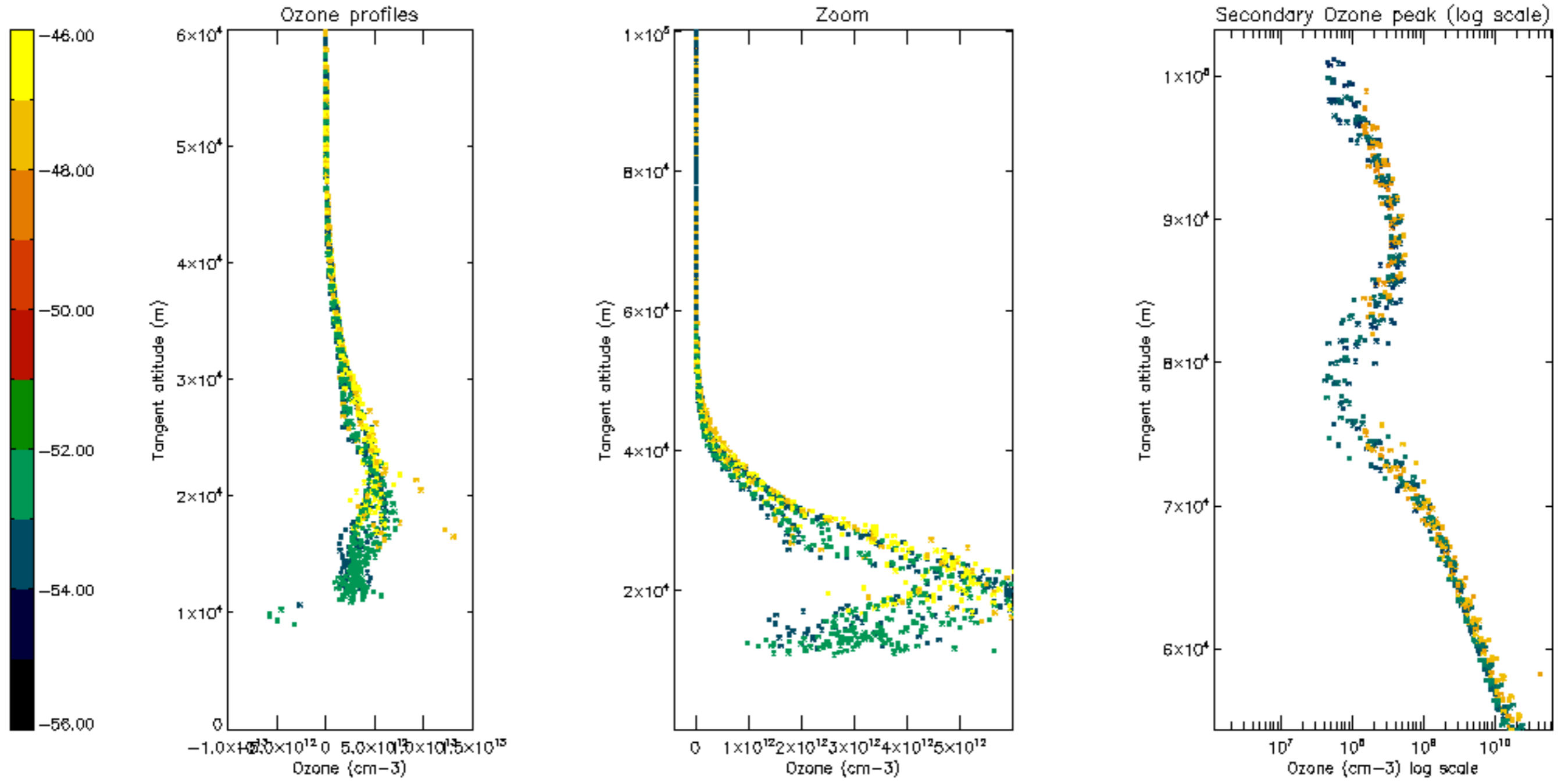
Percentage of star falling outside central band per profile

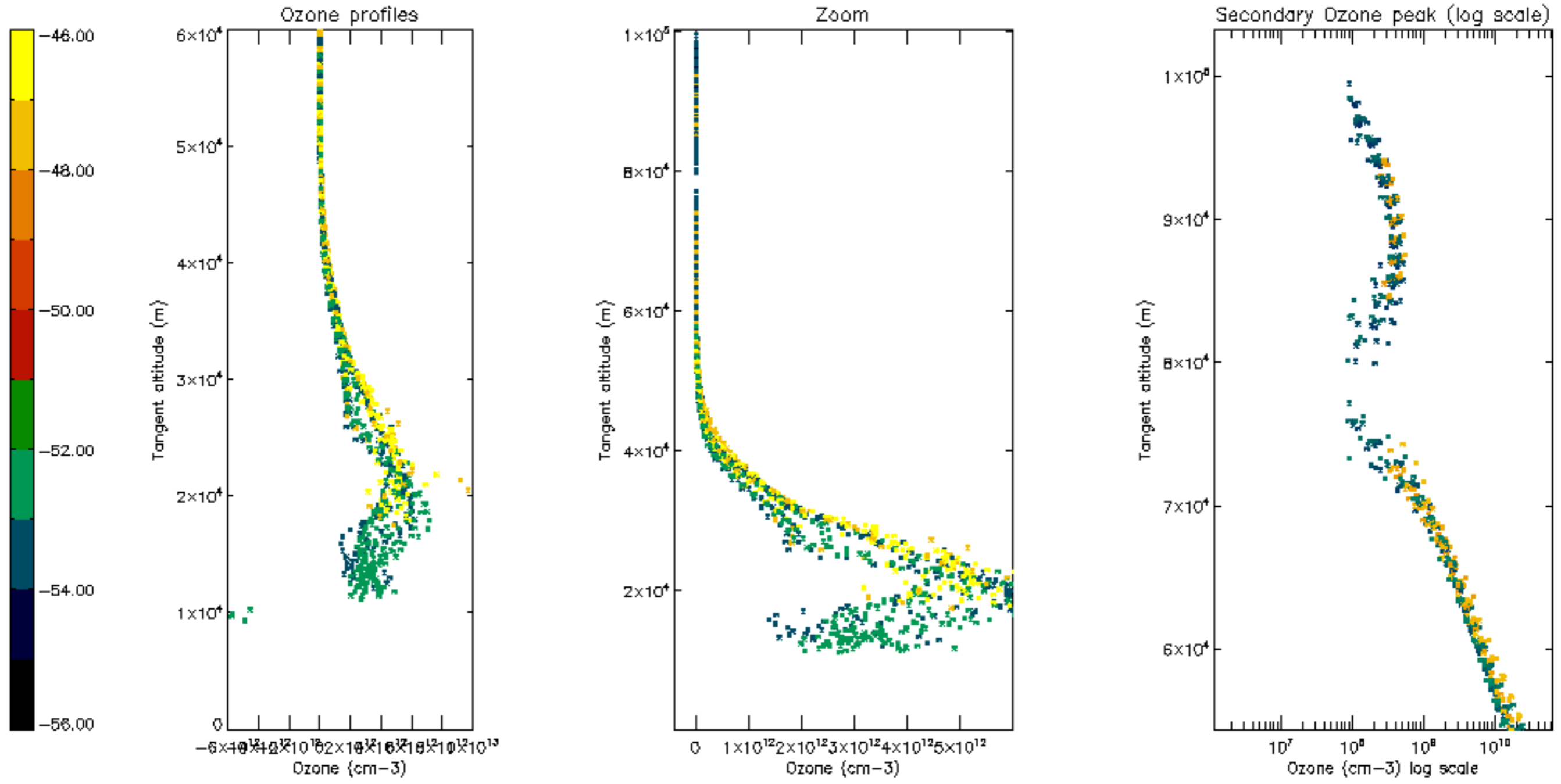


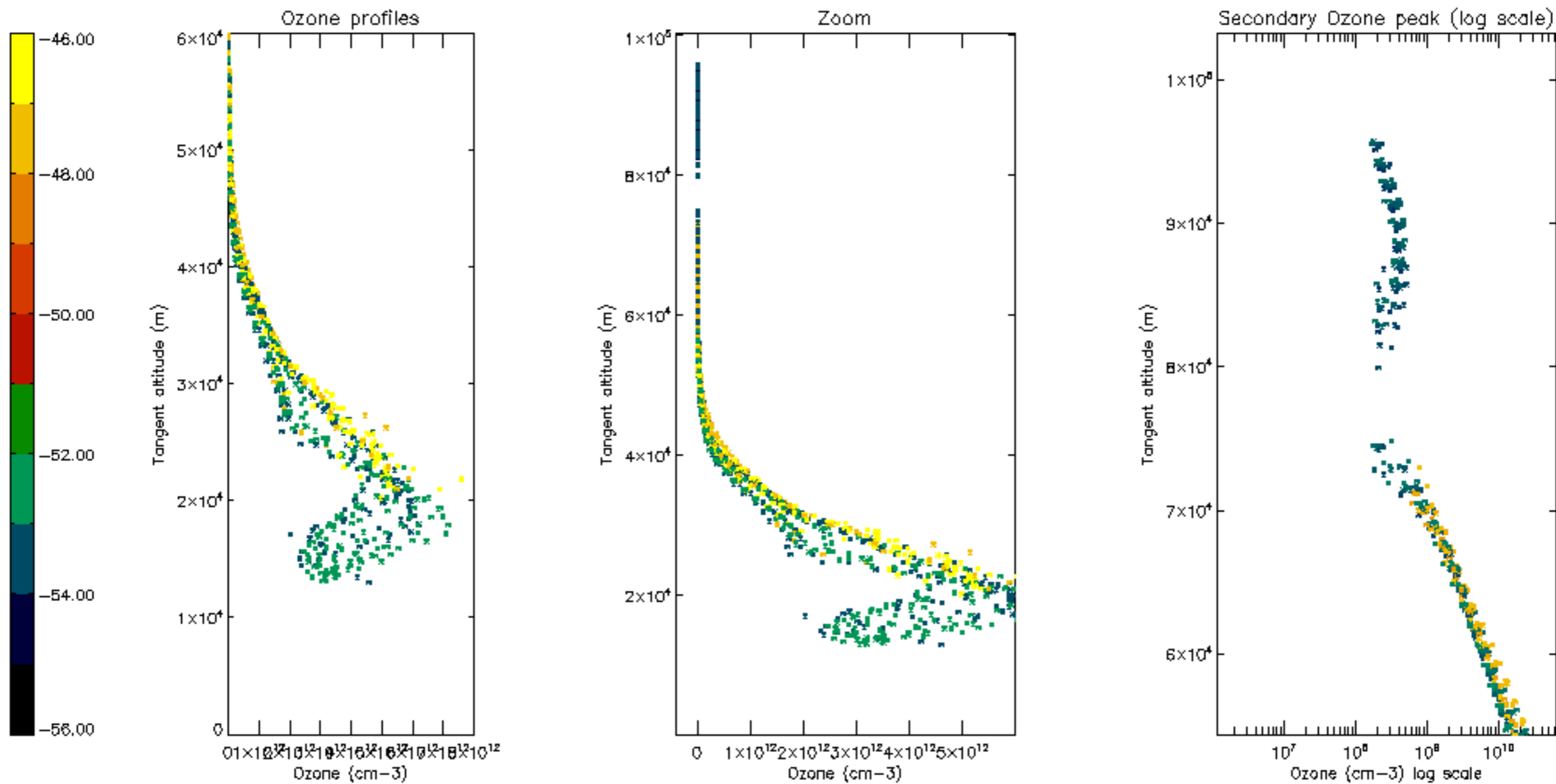
Percentage of saturation errors per profile

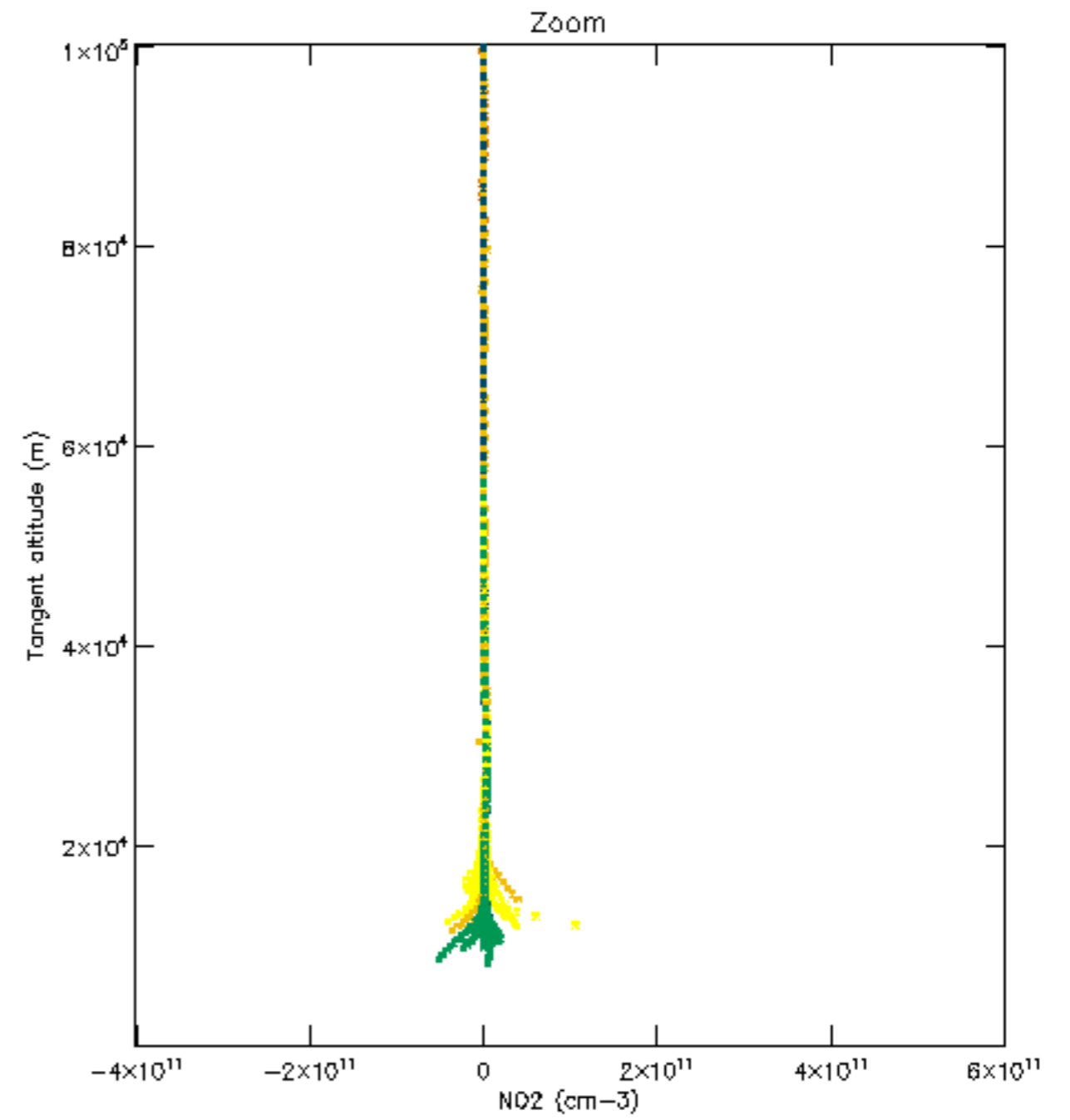
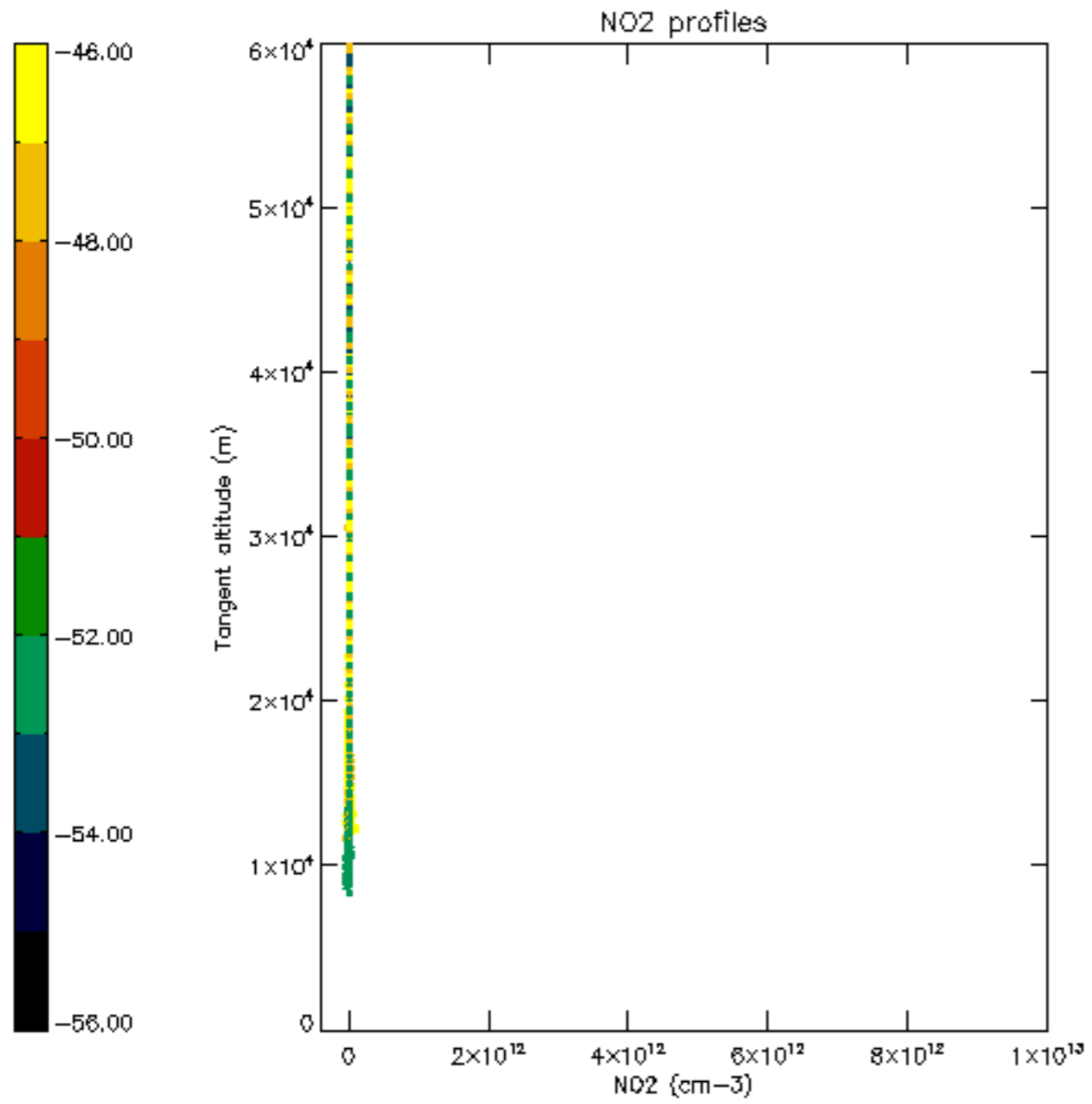


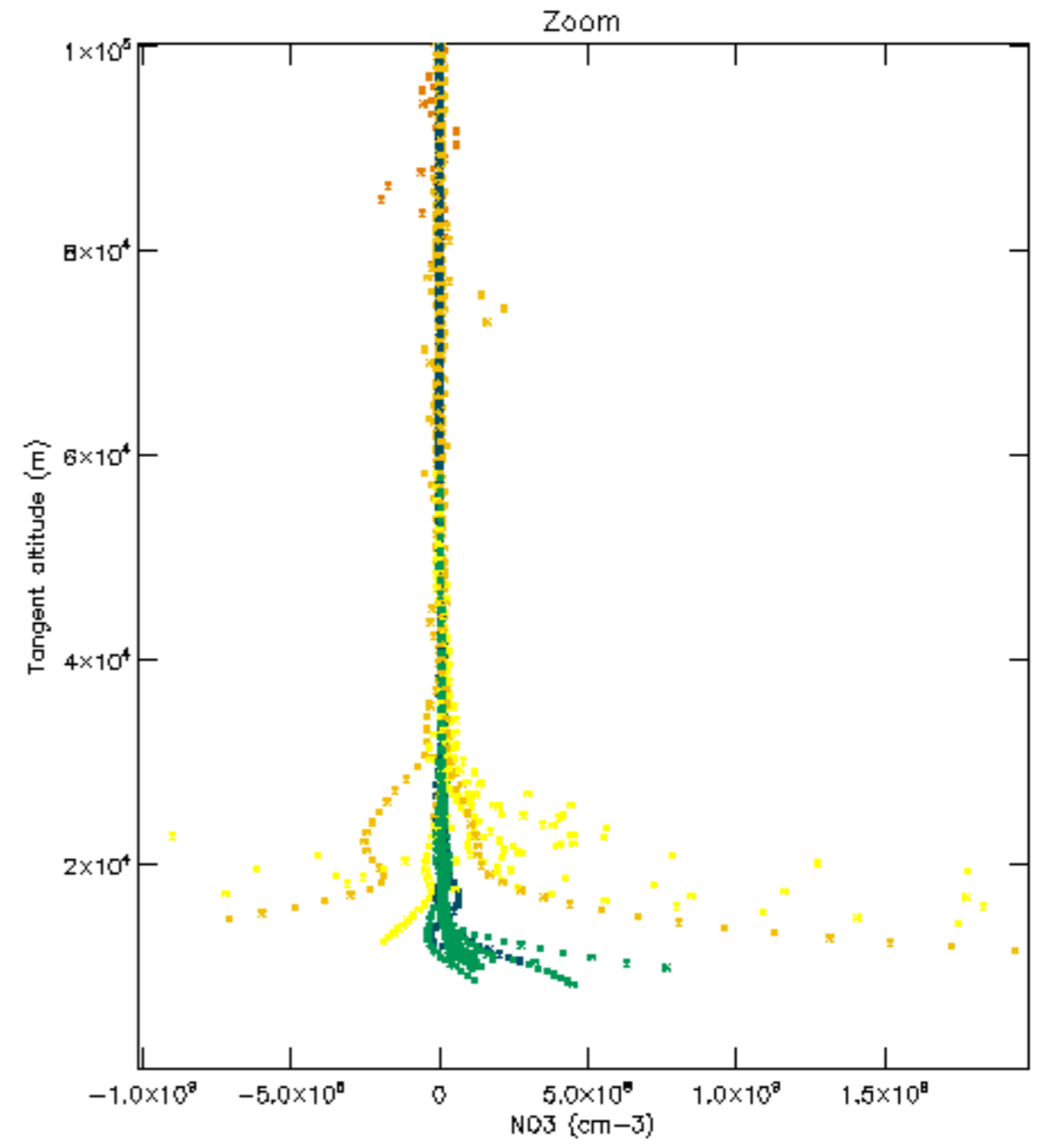
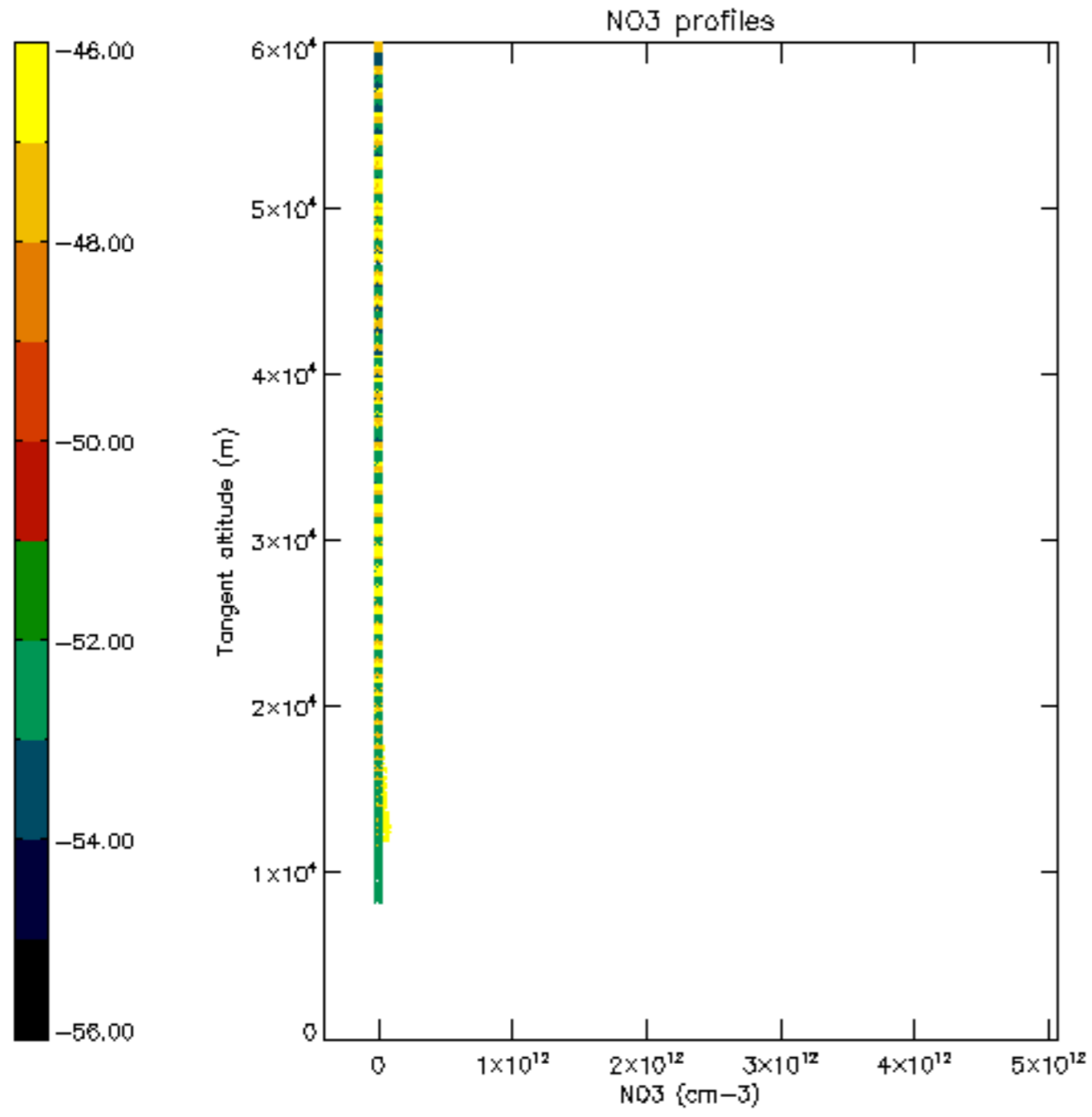


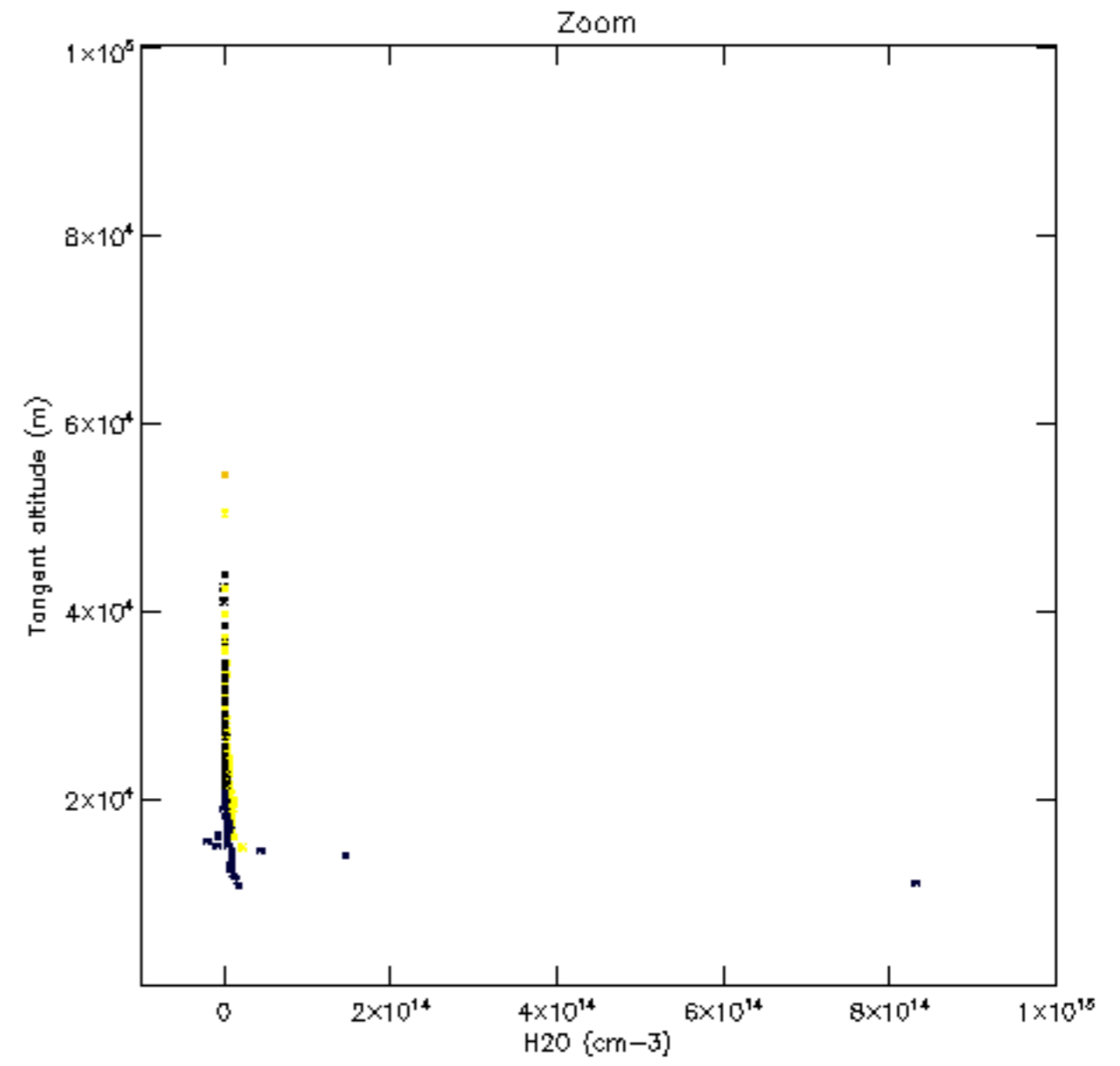
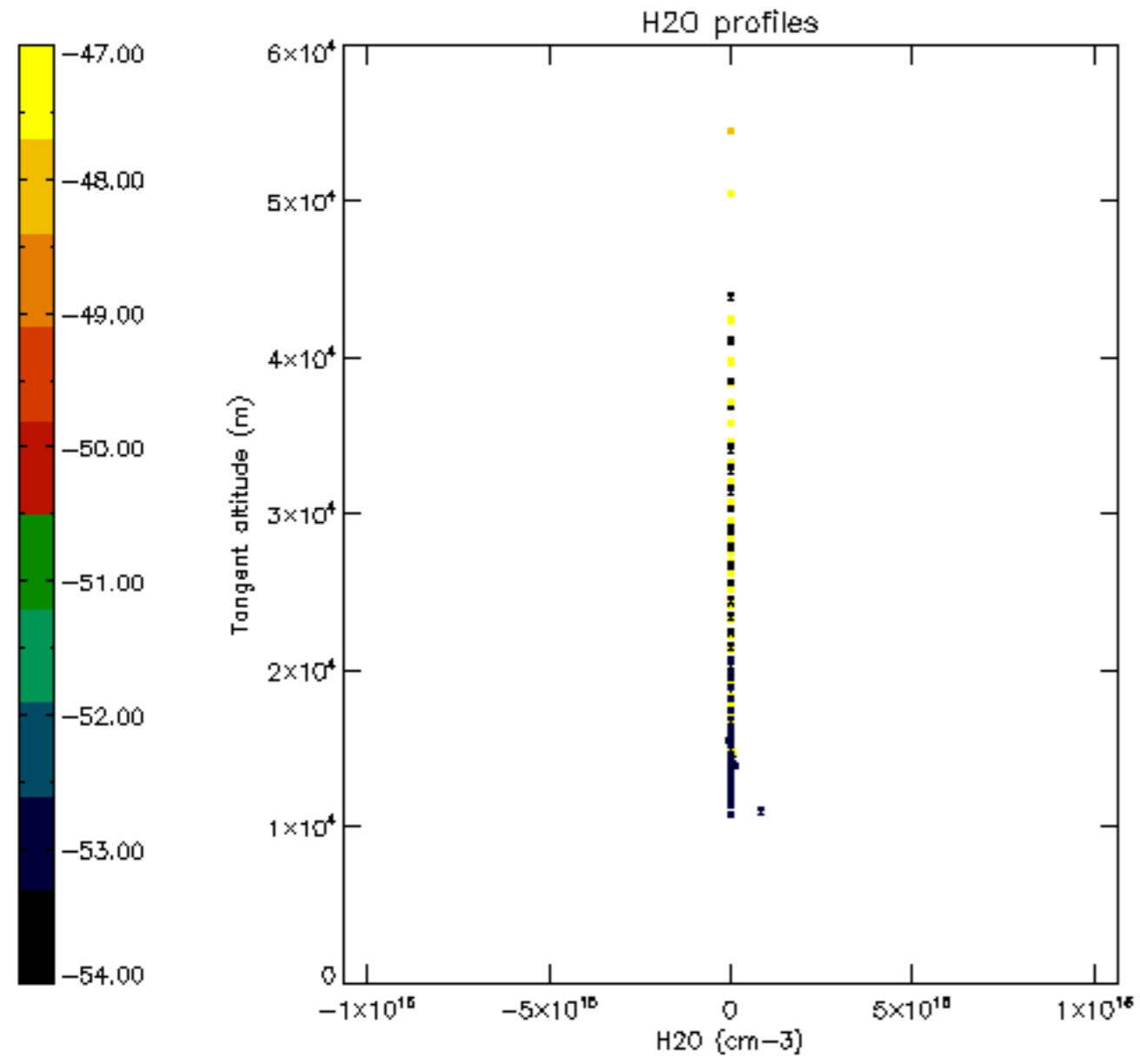


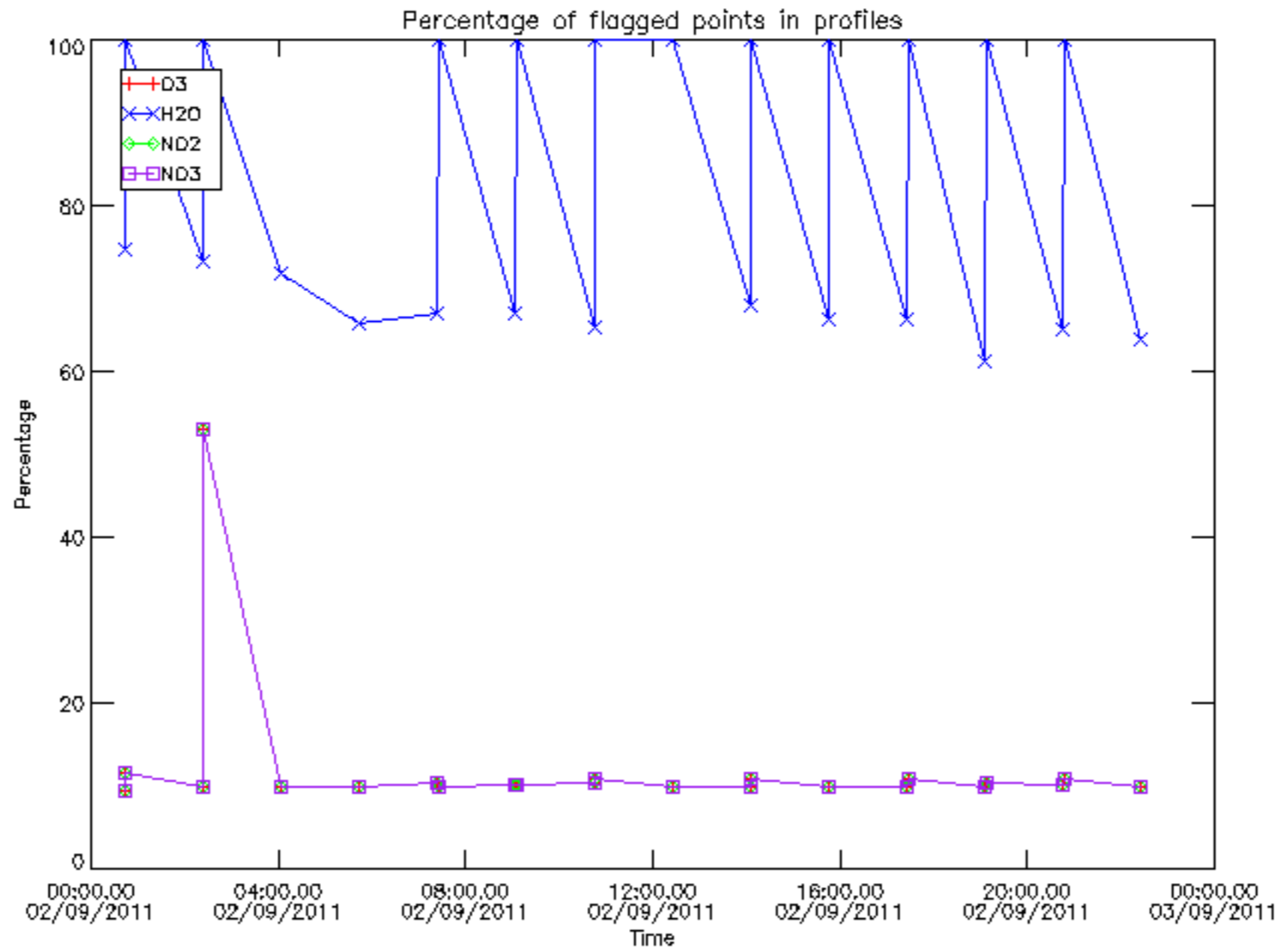




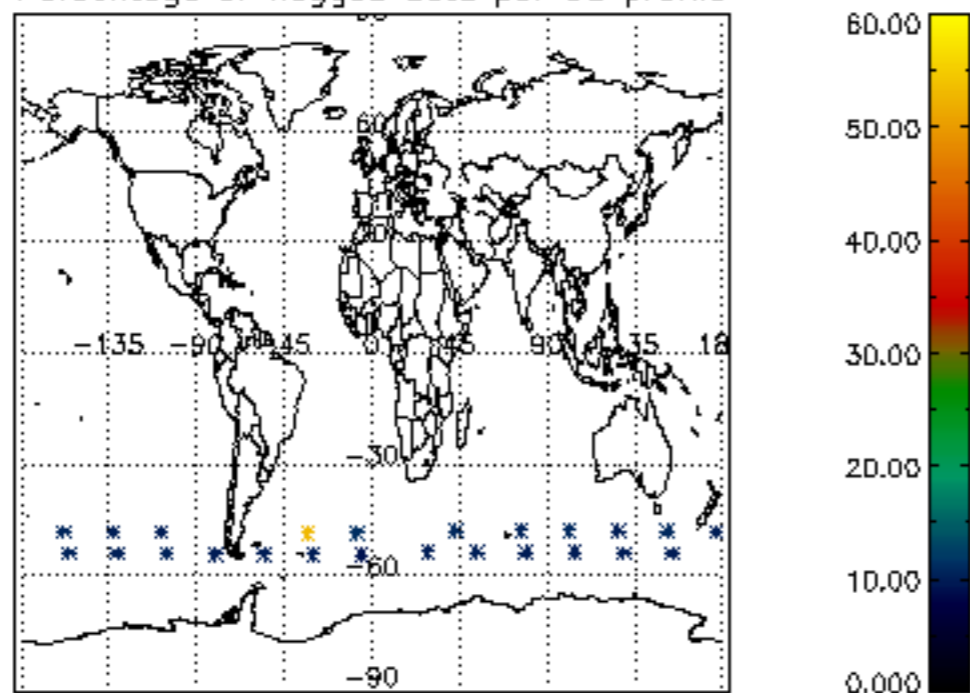




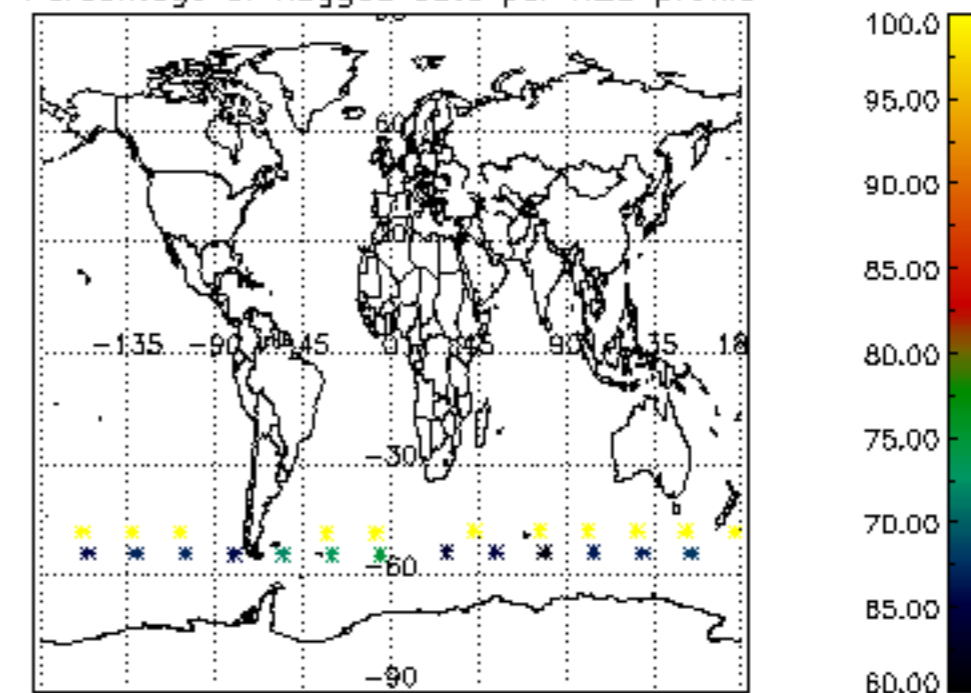




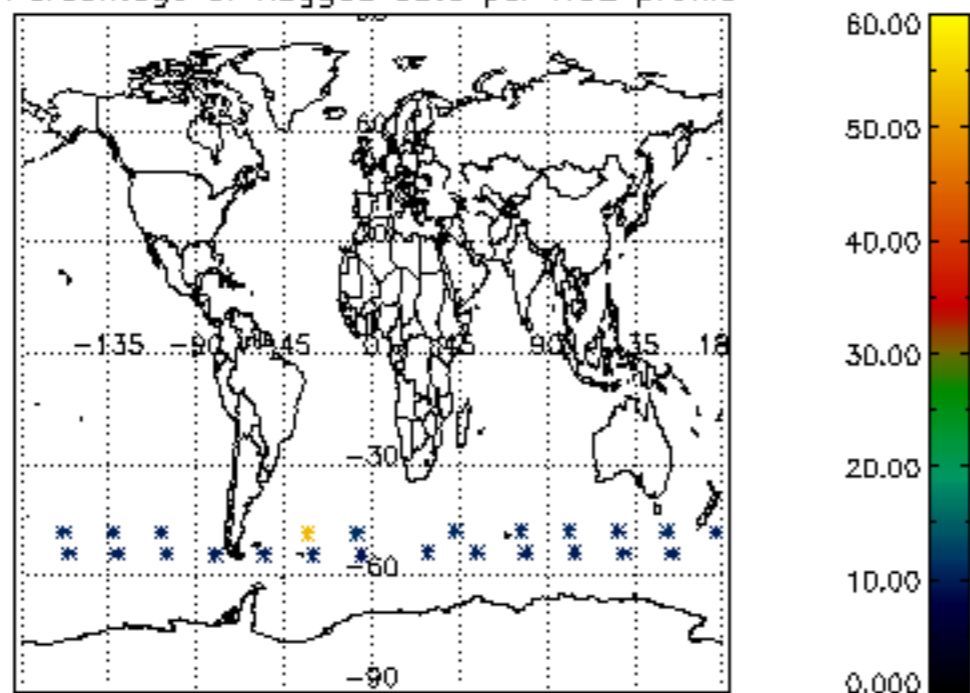
Percentage of flagged data per D3 profile



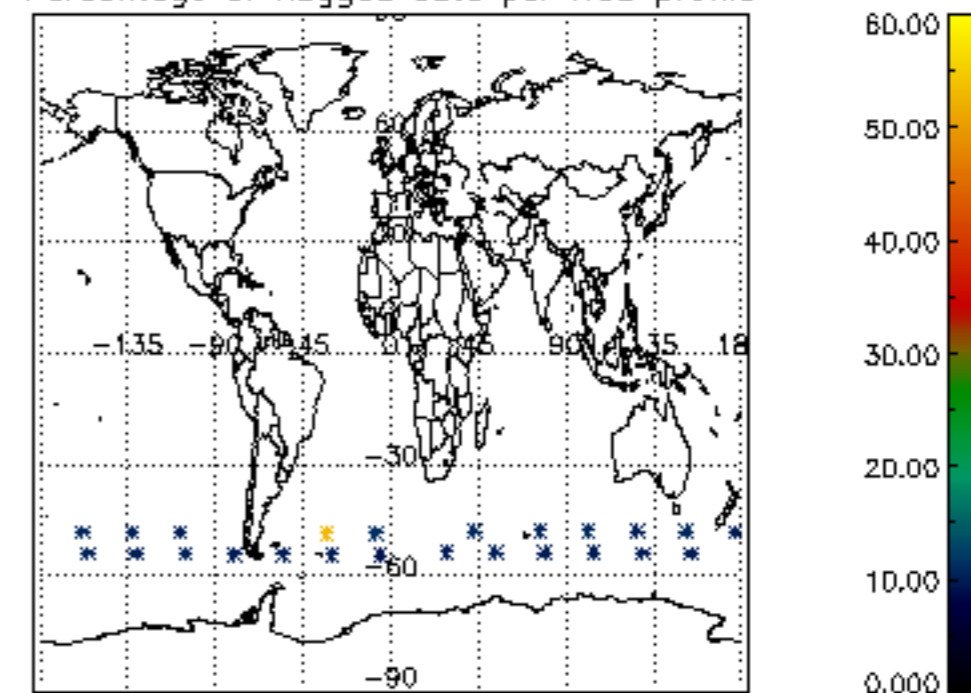
Percentage of flagged data per H2O profile

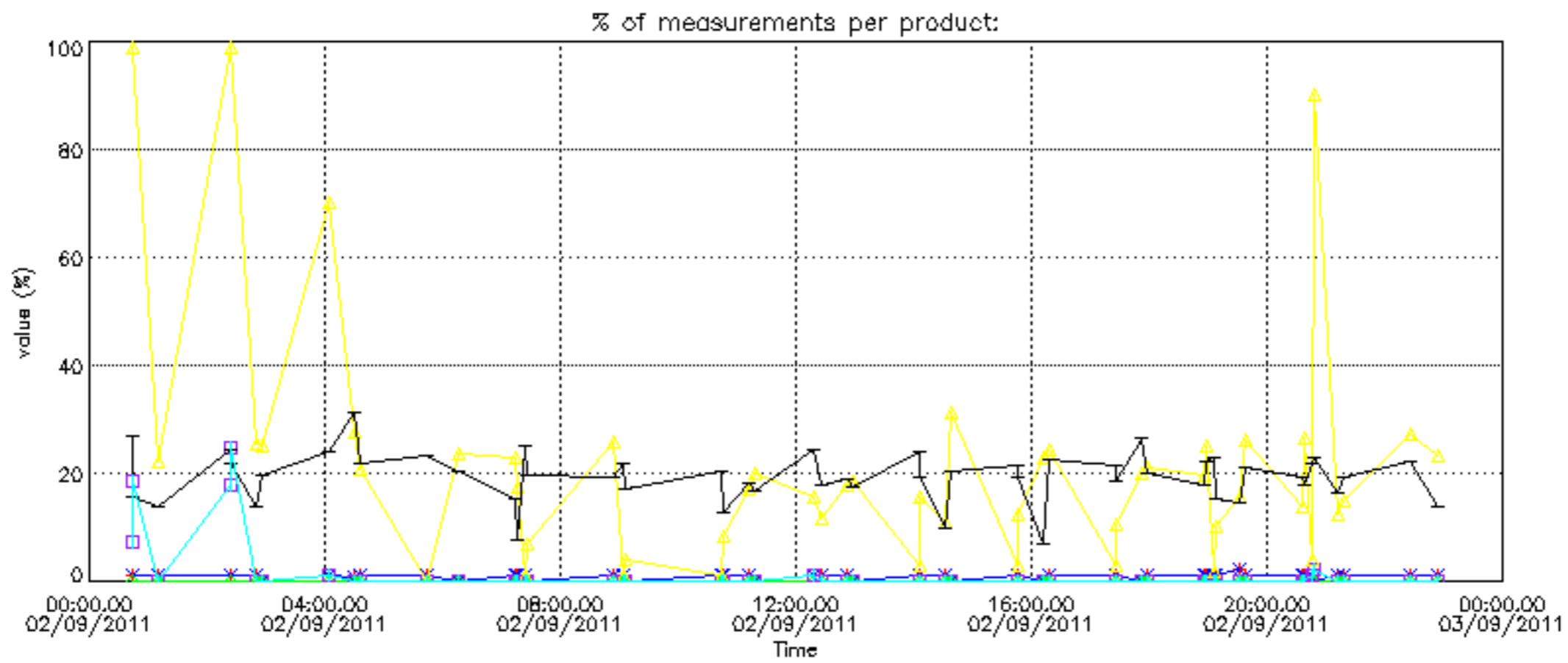
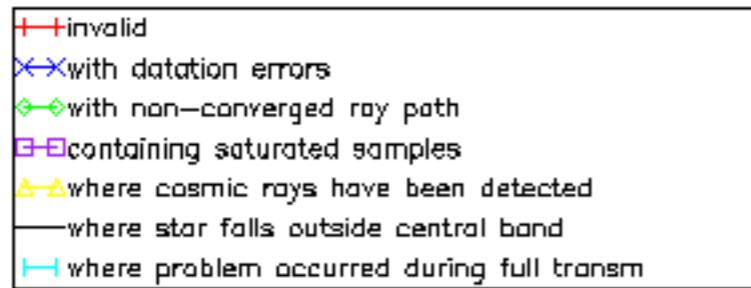


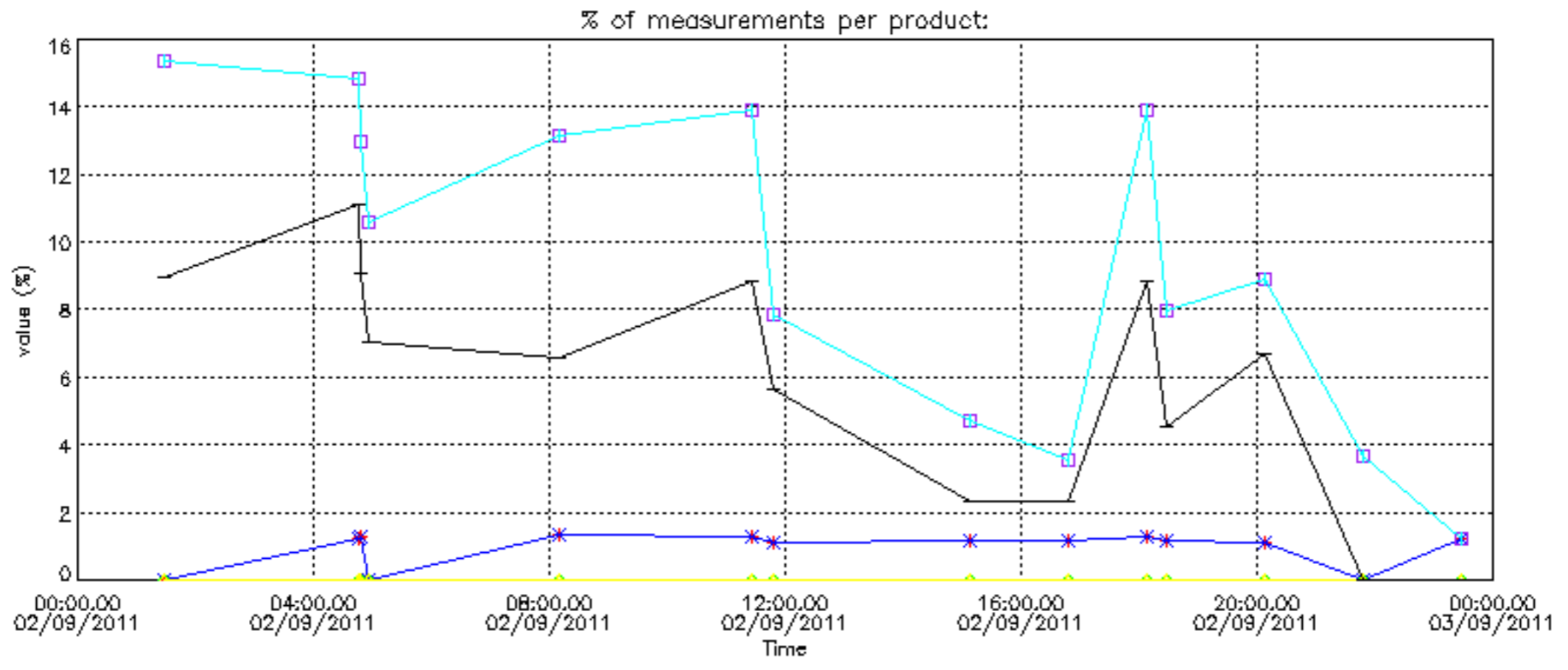
Percentage of flagged data per NO2 profile



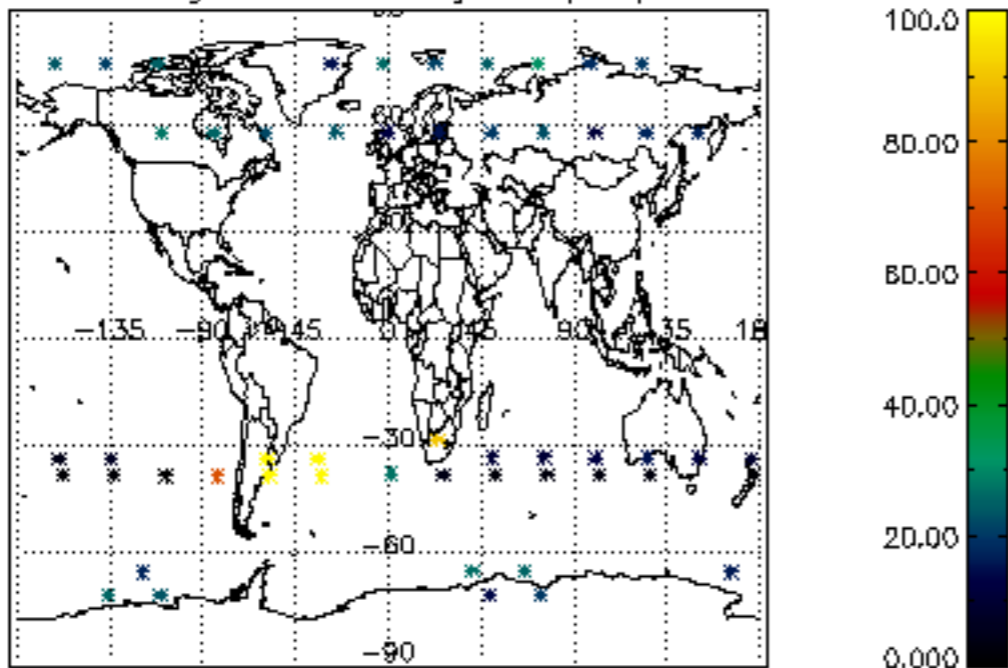
Percentage of flagged data per NO3 profile



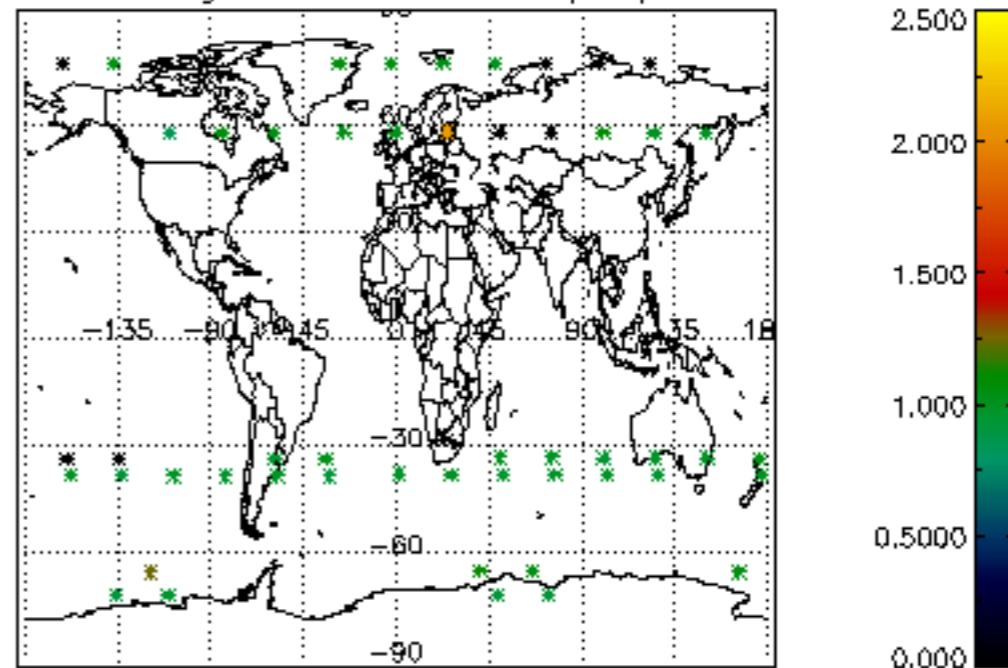




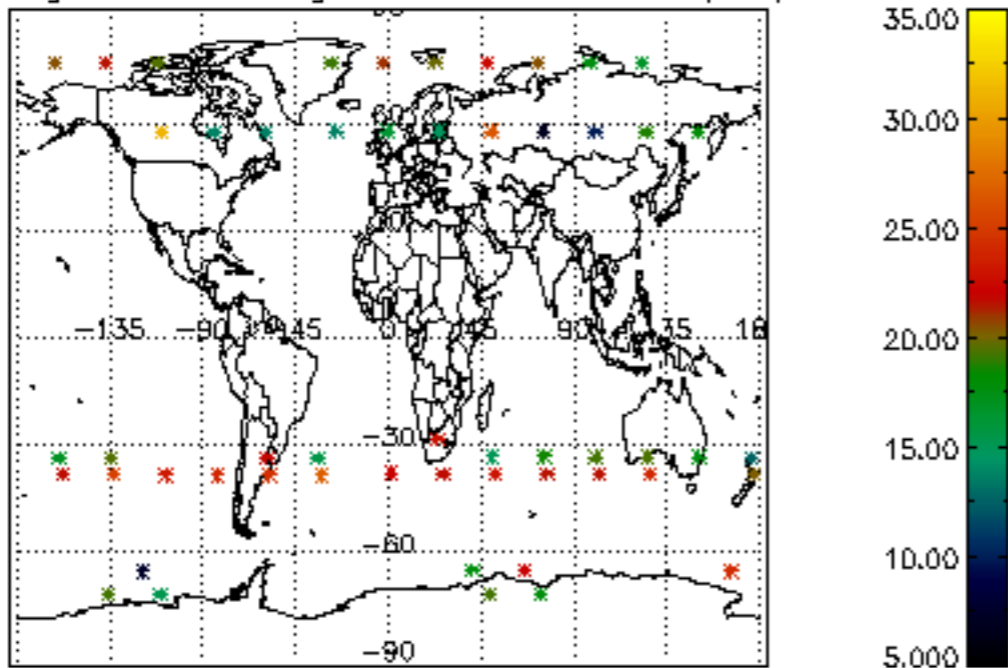
Percentage of cosmic ray hits per profile



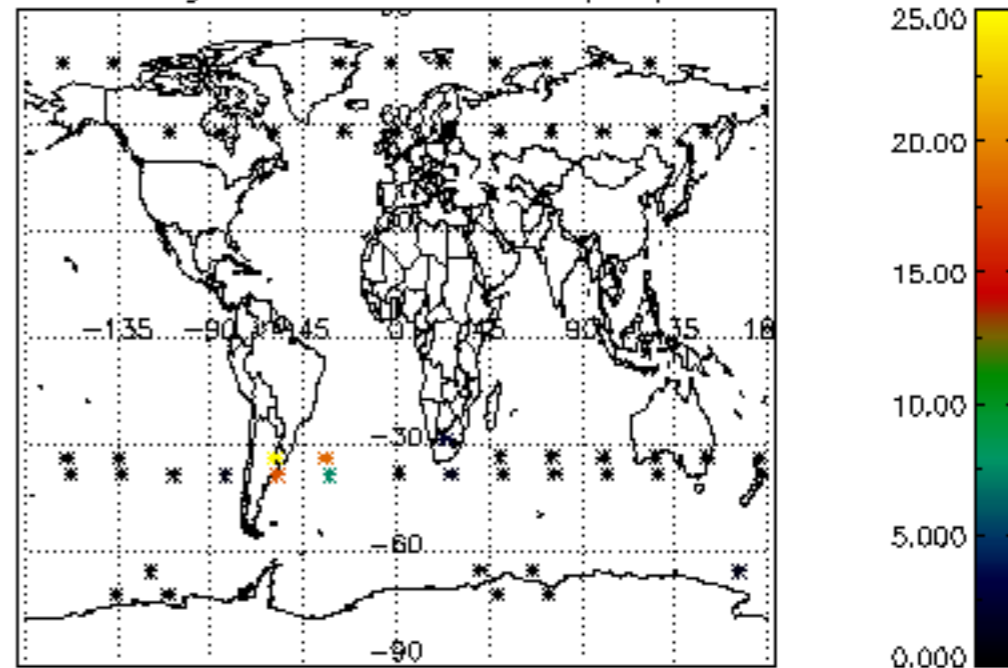
Percentage of datation errors per profile



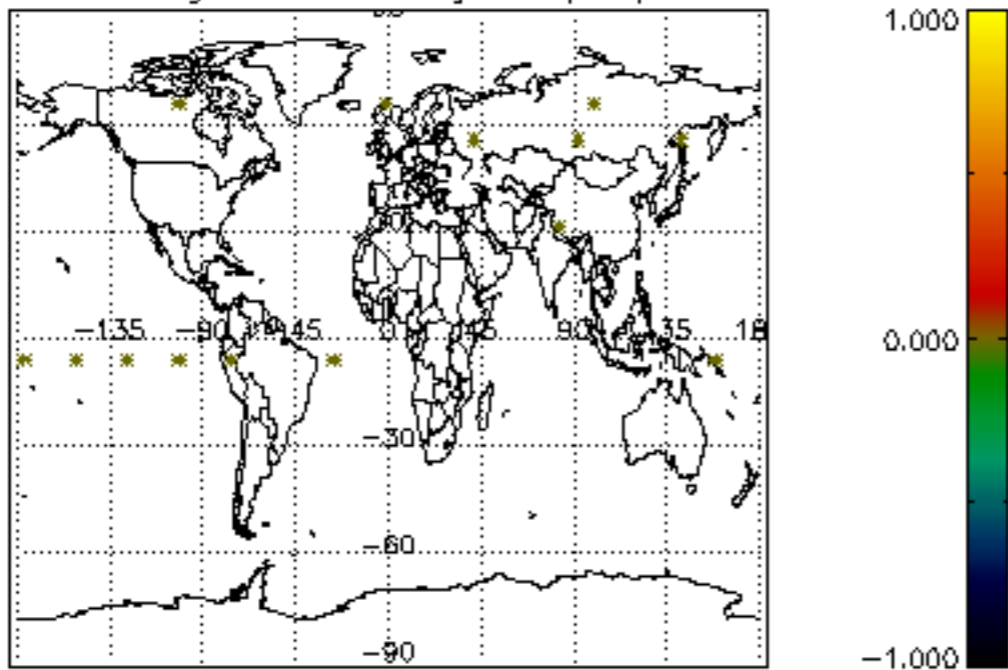
Percentage of star falling outside central band per profile



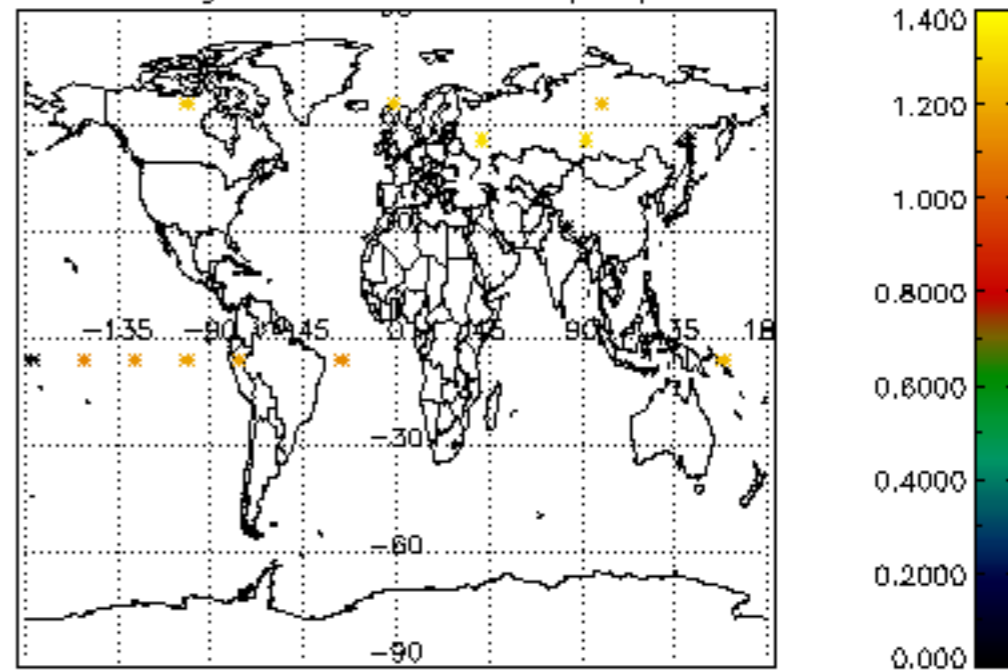
Percentage of saturation errors per profile



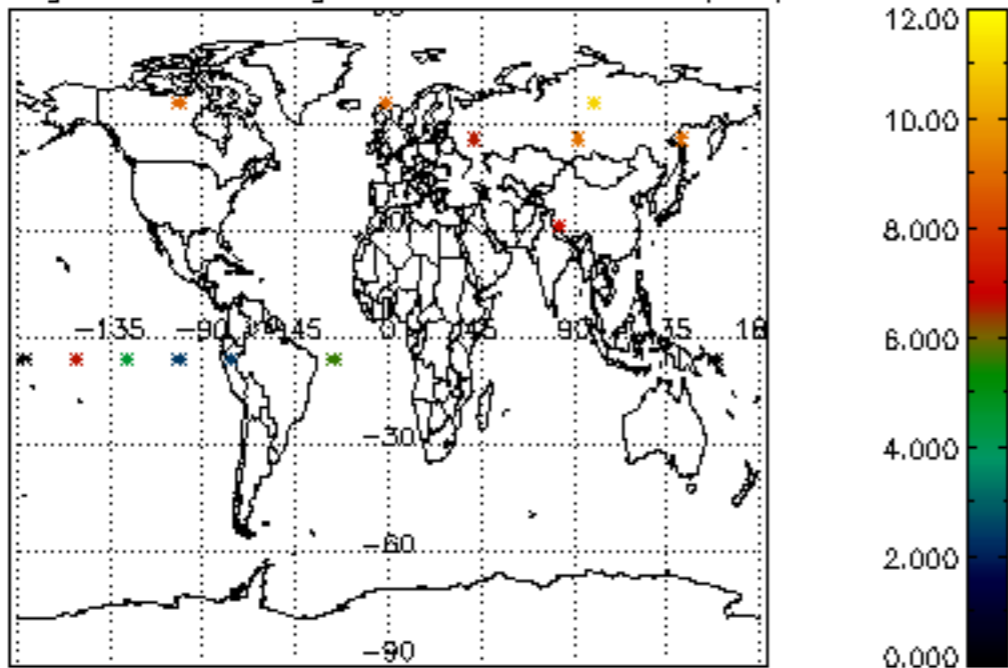
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

