

GOMOS Level 2 Daily Report

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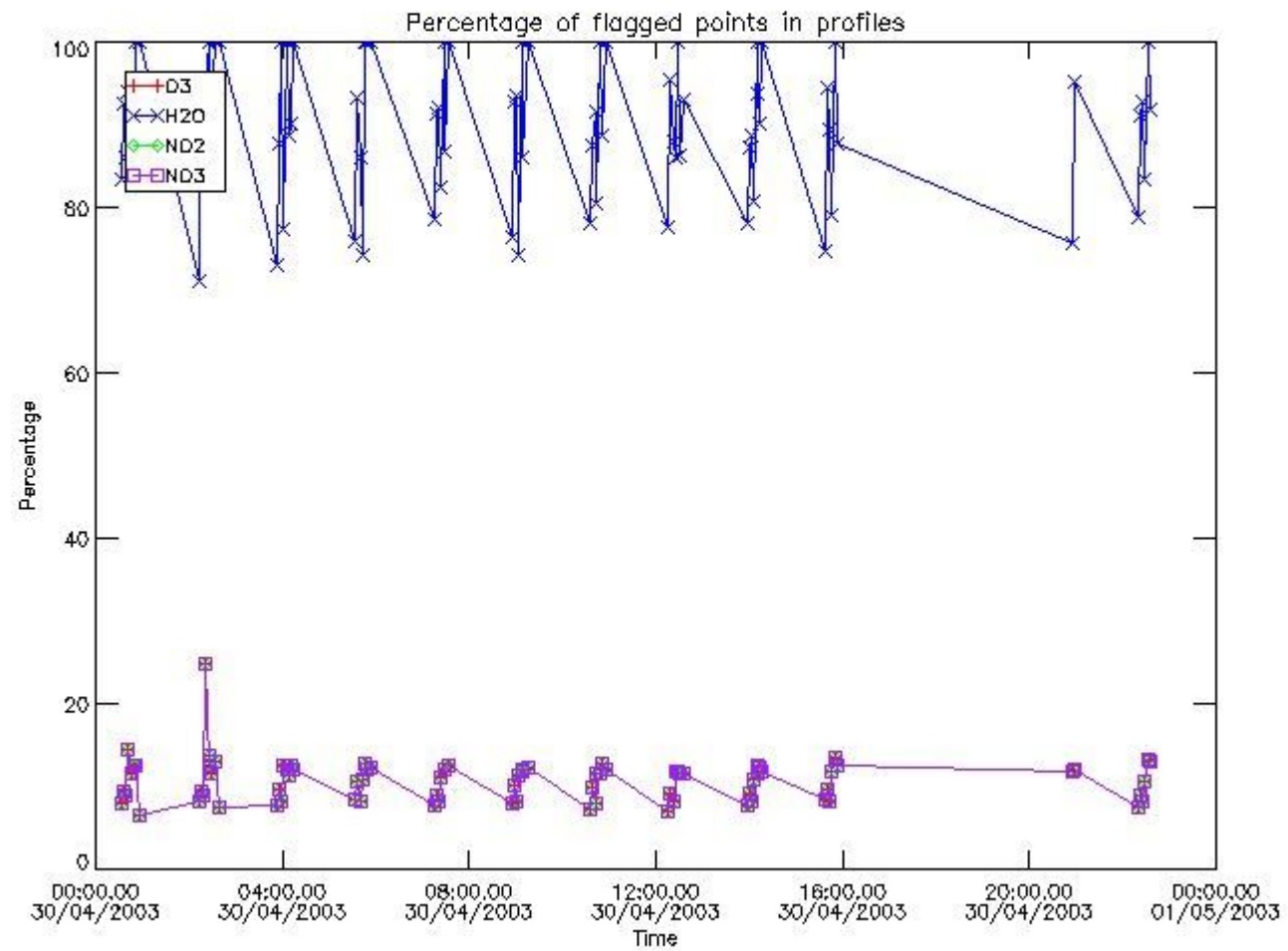
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338	GOM_NL__2PRFIN20030430_231755_000000472016_00030_06096_6689.N1	30-APR-2003 23:17:55	Bright	46.500	83		2.3780	11000.	93	6096	No
339	GOM_NL__2PRFIN20030430_231936_000000342016_00030_06096_6690.N1	30-APR-2003 23:19:36	Bright	33.500	152	12Alp2CVn	2.8900	11000.	67	6096	No
340	GOM_NL__2PRFIN20030430_232308_000000372016_00030_06096_6691.N1	30-APR-2003 23:23:08	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	6096	No
341	GOM_NL__2PRFIN20030430_232427_000000372016_00030_06096_6692.N1	30-APR-2003 23:24:27	Bright	37.000	55	79Zet UMa	2.0600	10200.	74	6096	No
342	GOM_NL__2PRFIN20030430_232651_000000382016_00030_06096_6693.N1	30-APR-2003 23:26:51	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	6096	No
343	GOM_NL__2PRFIN20030430_233036_000000382016_00030_06096_6694.N1	30-APR-2003 23:30:36	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	6096	No
344	GOM_NL__2PRFIN20030430_233421_000000322016_00030_06096_6695.N1	30-APR-2003 23:34:21	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	6096	No
345	GOM_NL__2PRFIN20030430_234047_000000442016_00030_06096_6696.N1	30-APR-2003 23:40:47	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	6096	No
346	GOM_NL__2PRFIN20030430_234220_000000422016_00030_06096_6697.N1	30-APR-2003 23:42:20	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	6096	No
347	GOM_NL__2PRFIN20030430_234336_000000352016_00030_06096_6698.N1	30-APR-2003 23:43:36	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	6096	No
348	GOM_NL__2PRFIN20030430_234558_000000622016_00030_06096_6699.N1	30-APR-2003 23:45:58	Bright	61.500	19	50Alp Cyg	1.2460	10500.	123	6096	No
349	GOM_NL__2PRFIN20030430_235127_000000842016_00030_06096_6700.N1	30-APR-2003 23:51:27	Twilight	84.000	92	53Eps Cyg	2.5000	4500.0	168	6096	No
350	GOM_NL__2PRFIN20030430_235628_000000452016_00030_06096_6701.N1	30-APR-2003 23:56:28	Twilight	44.500	90	54Alp Peg	2.4870	11000.	89	6096	No

3. Quality information per product

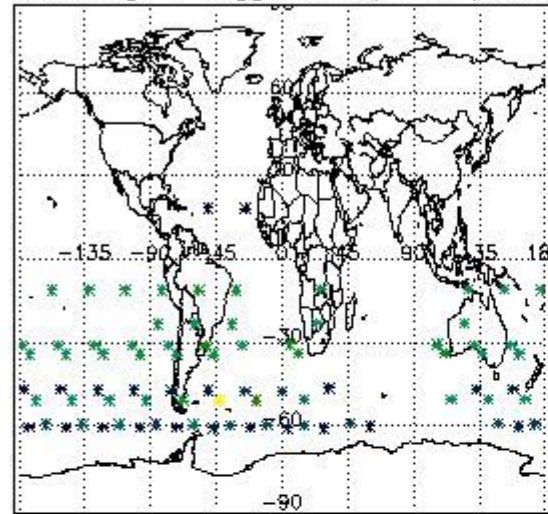
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

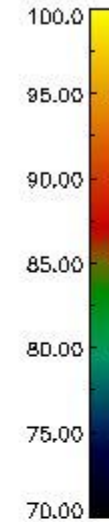
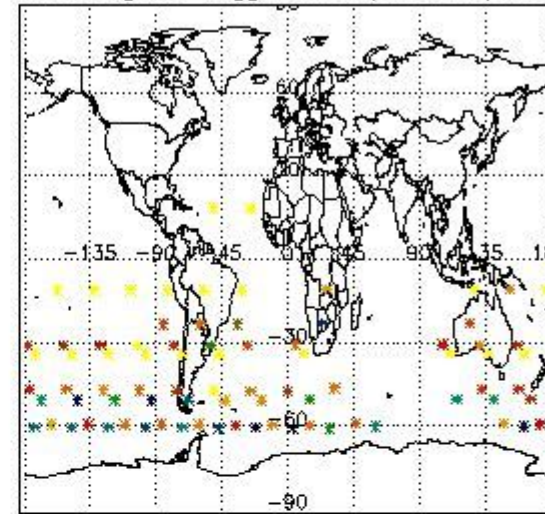


3.2 Plot quality information per product (world map)

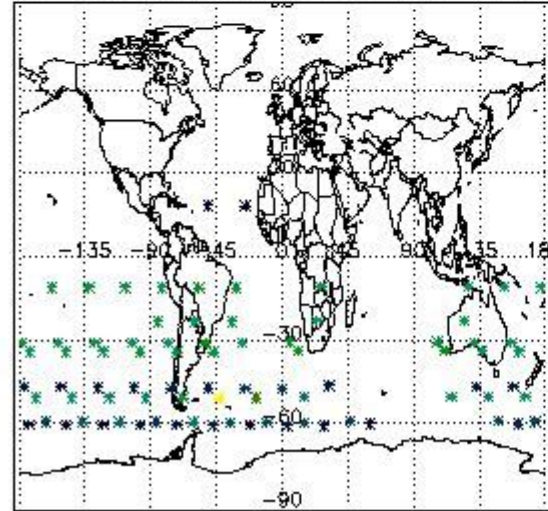
Percentage of flagged data per O3 profile



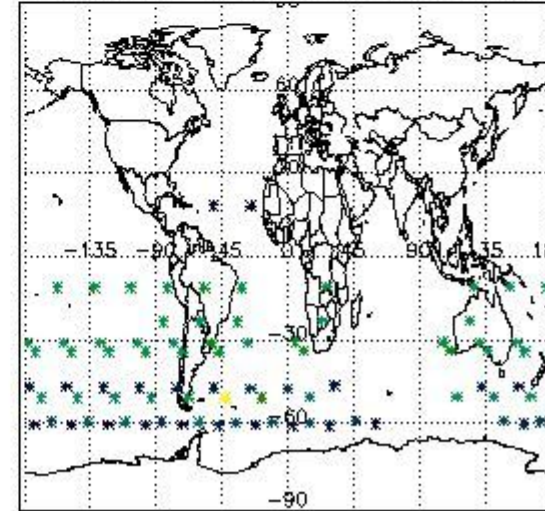
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

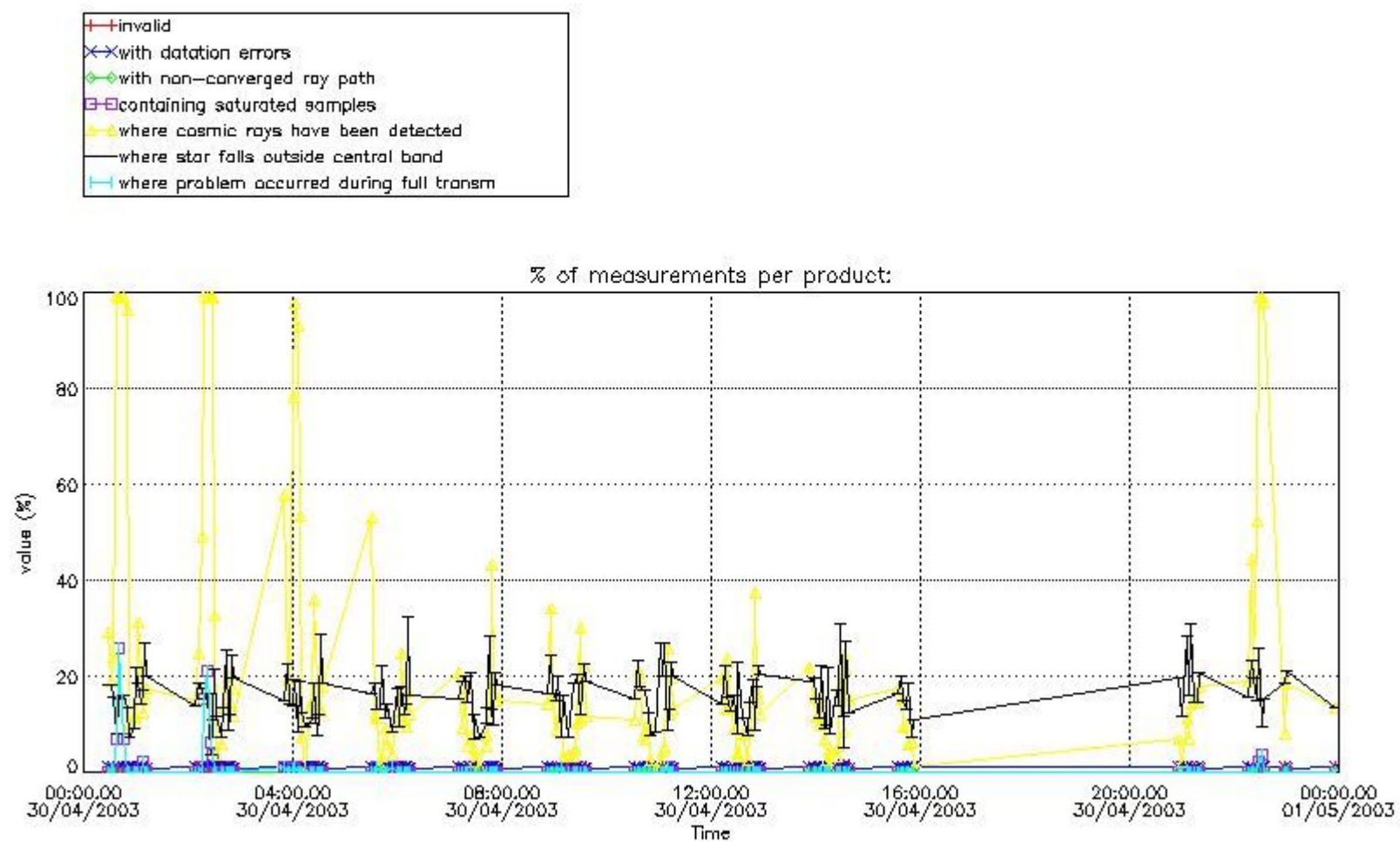


4. Level 1 quality information per product

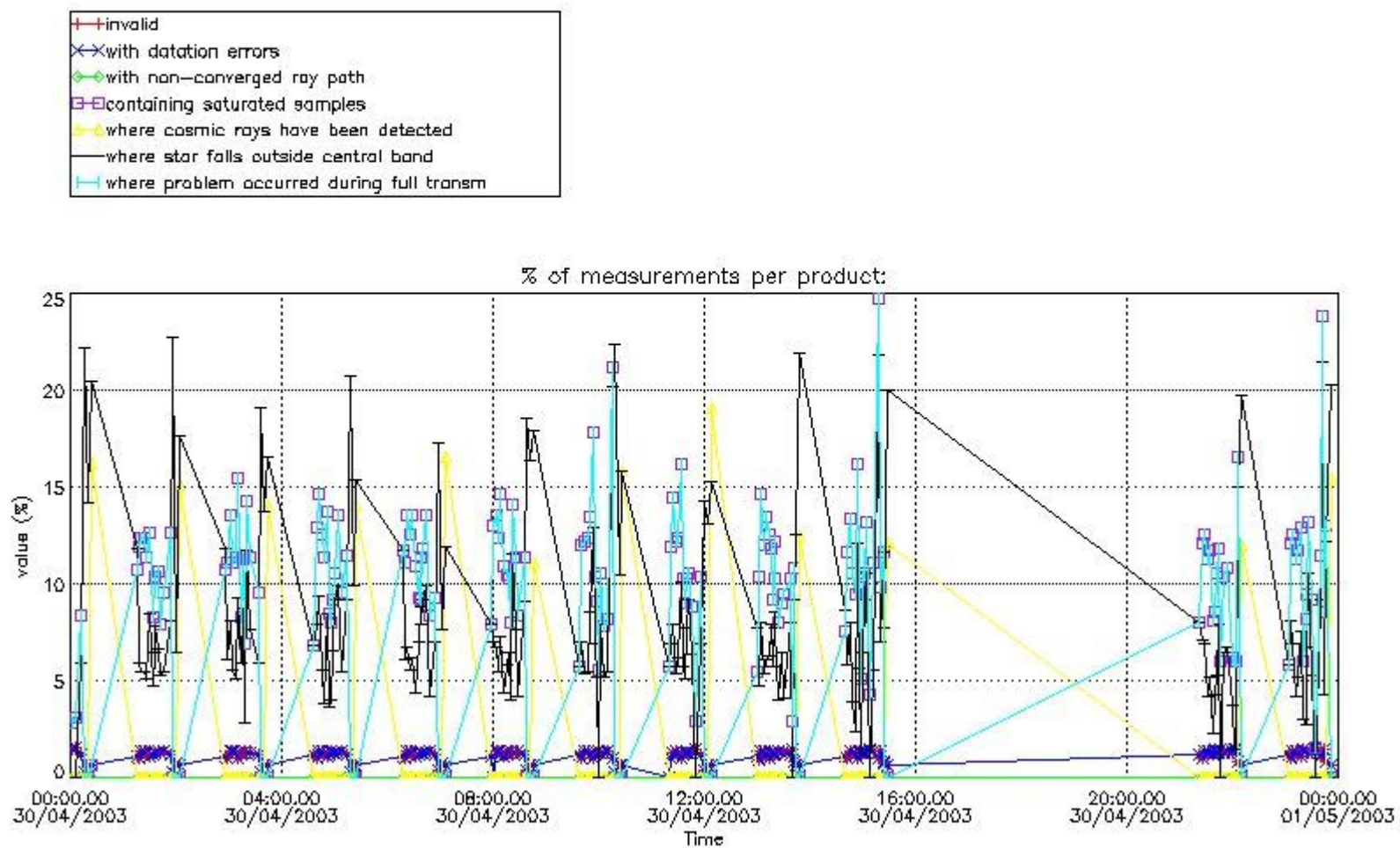
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

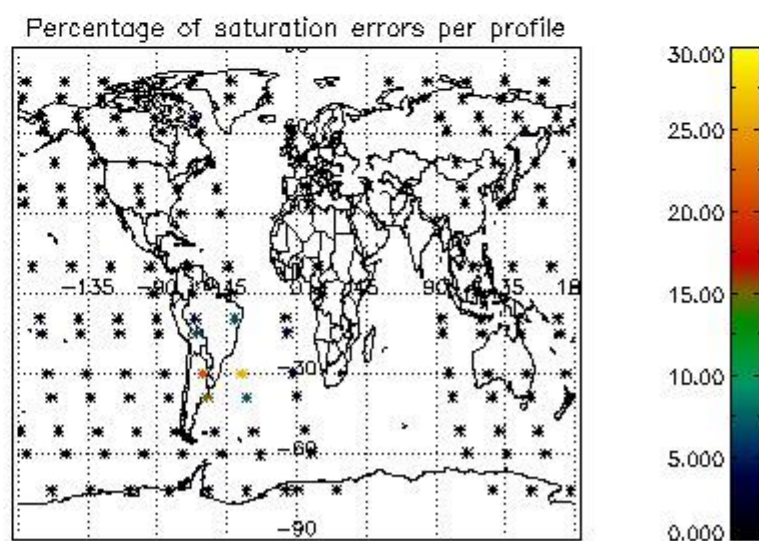
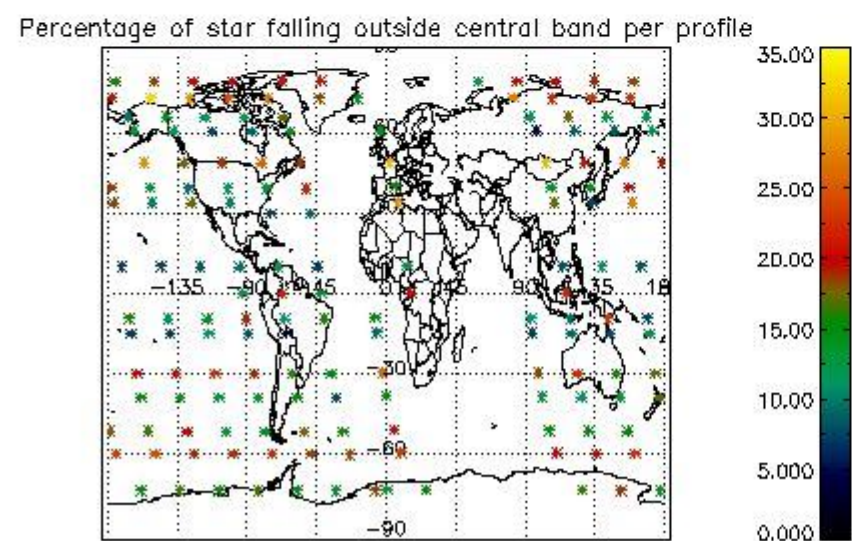
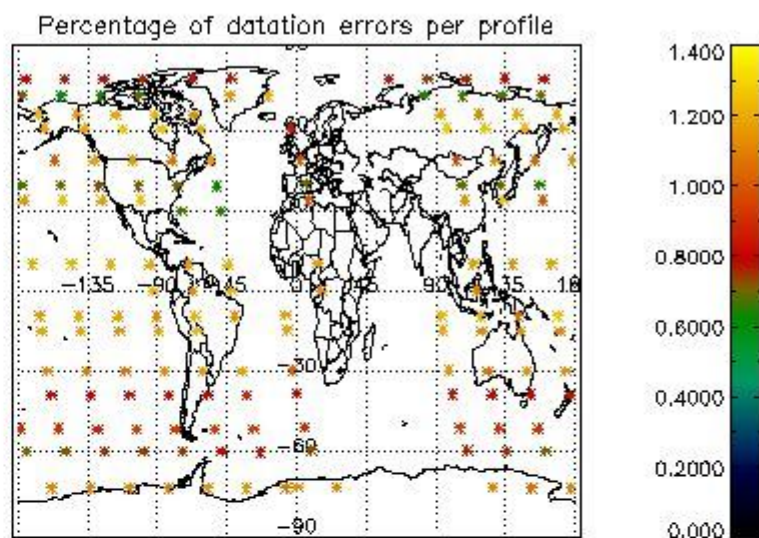
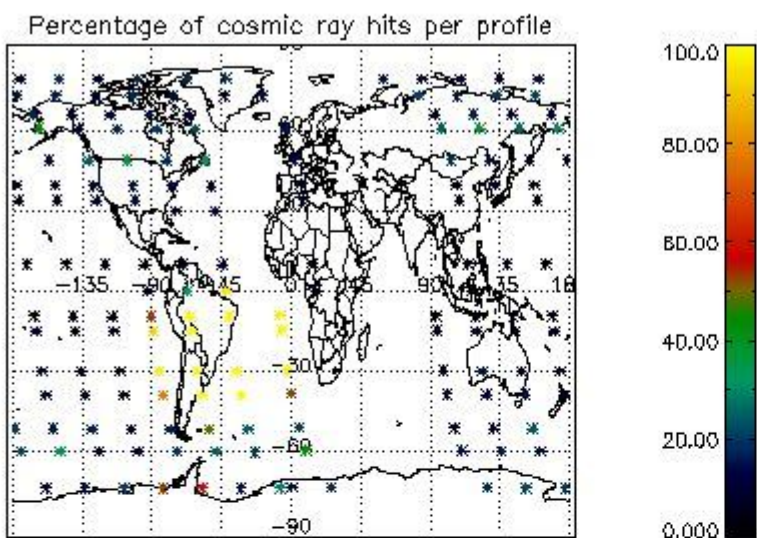


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

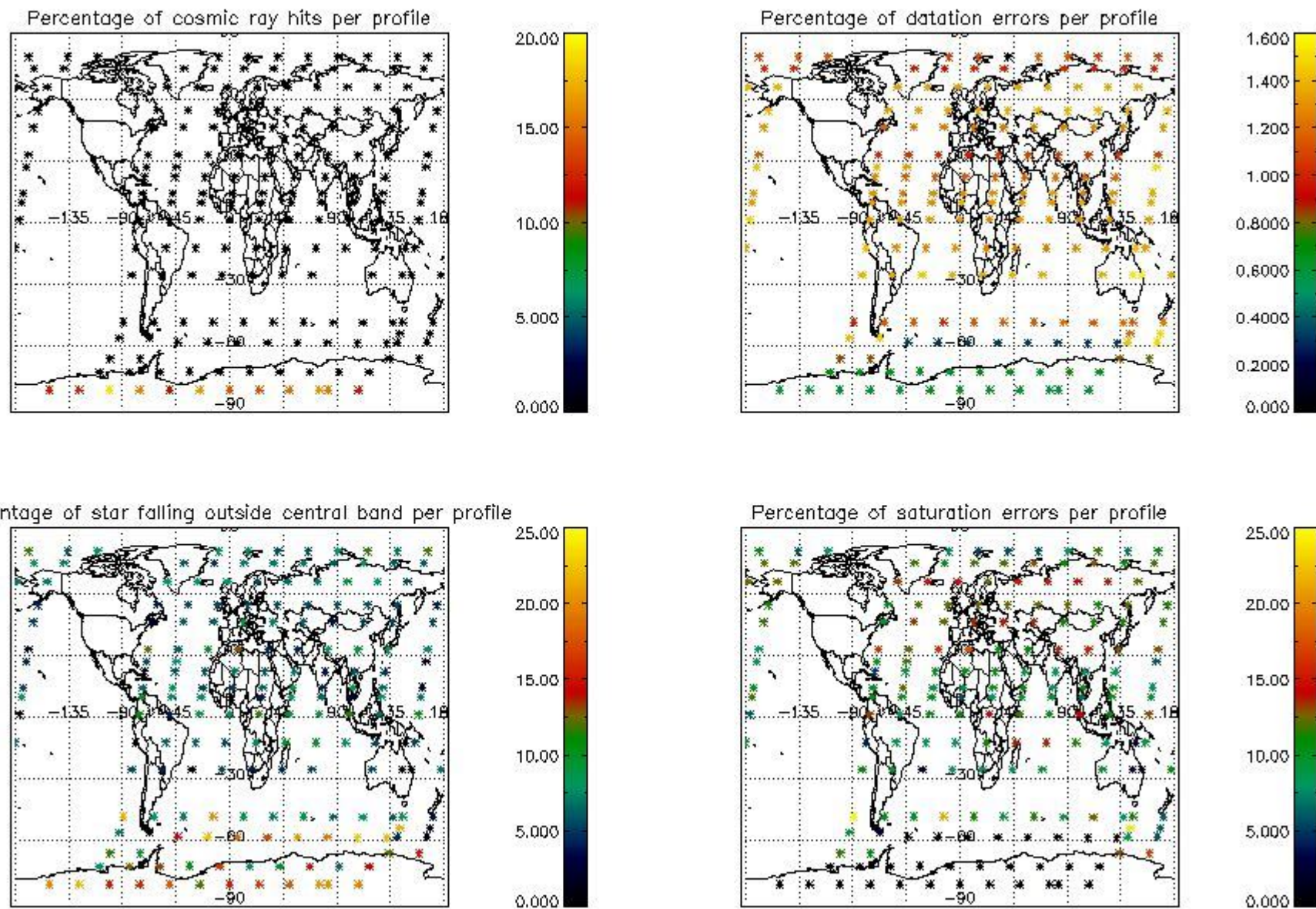


4.2 Plot quality information per product coming from level 1b processing (world map)

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

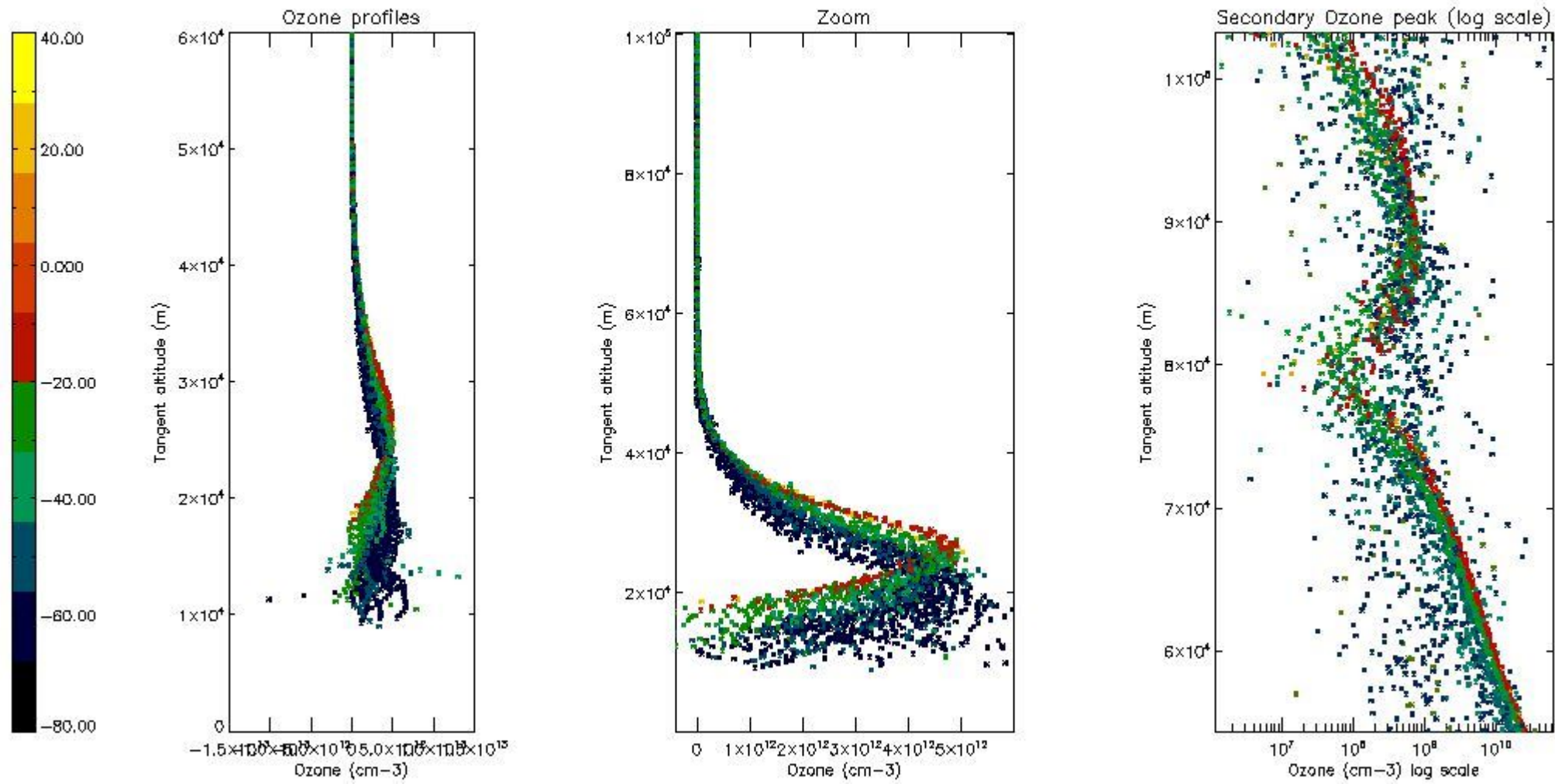
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	12

STD < 10	9
STD < 5	6

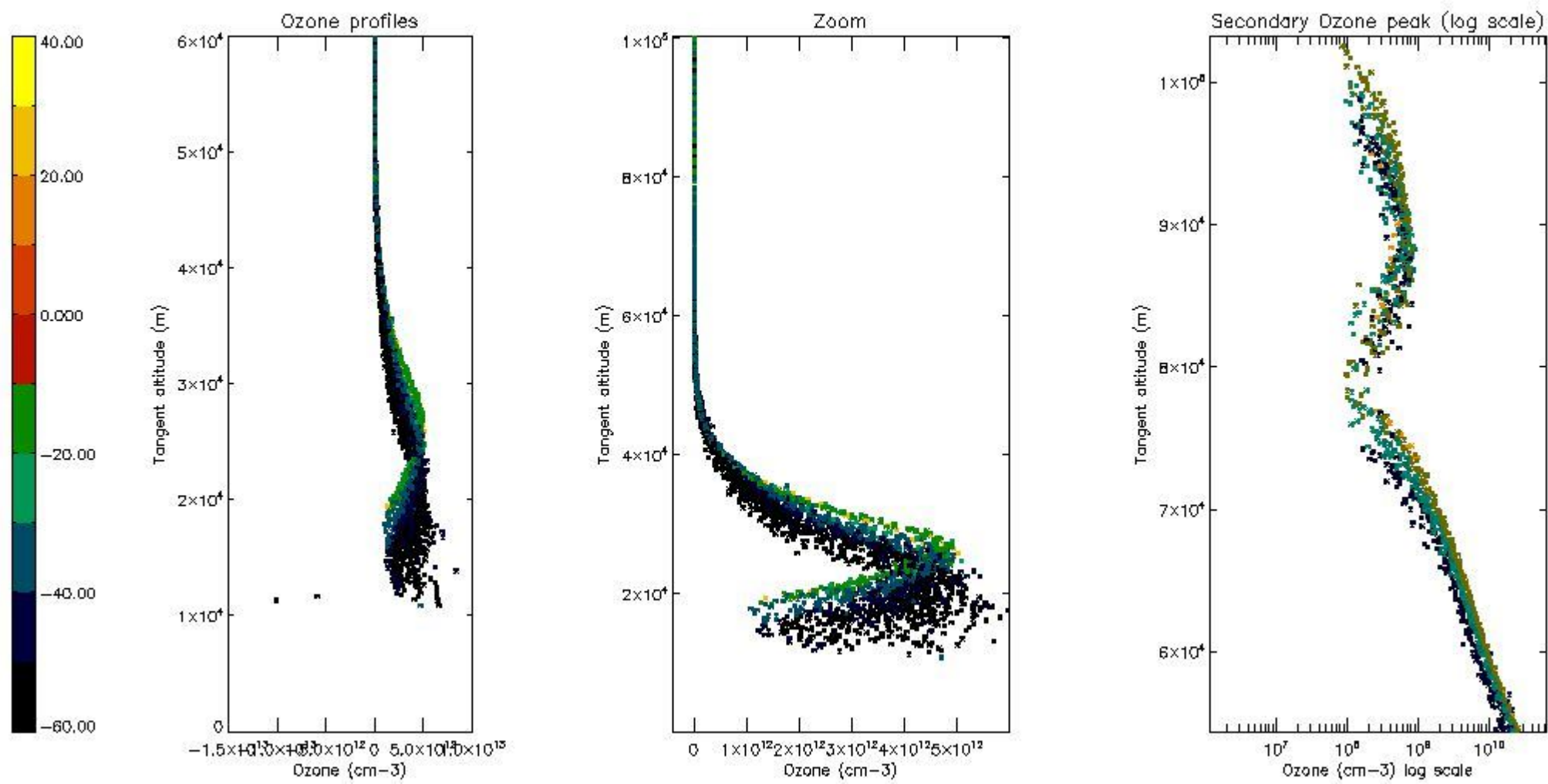
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



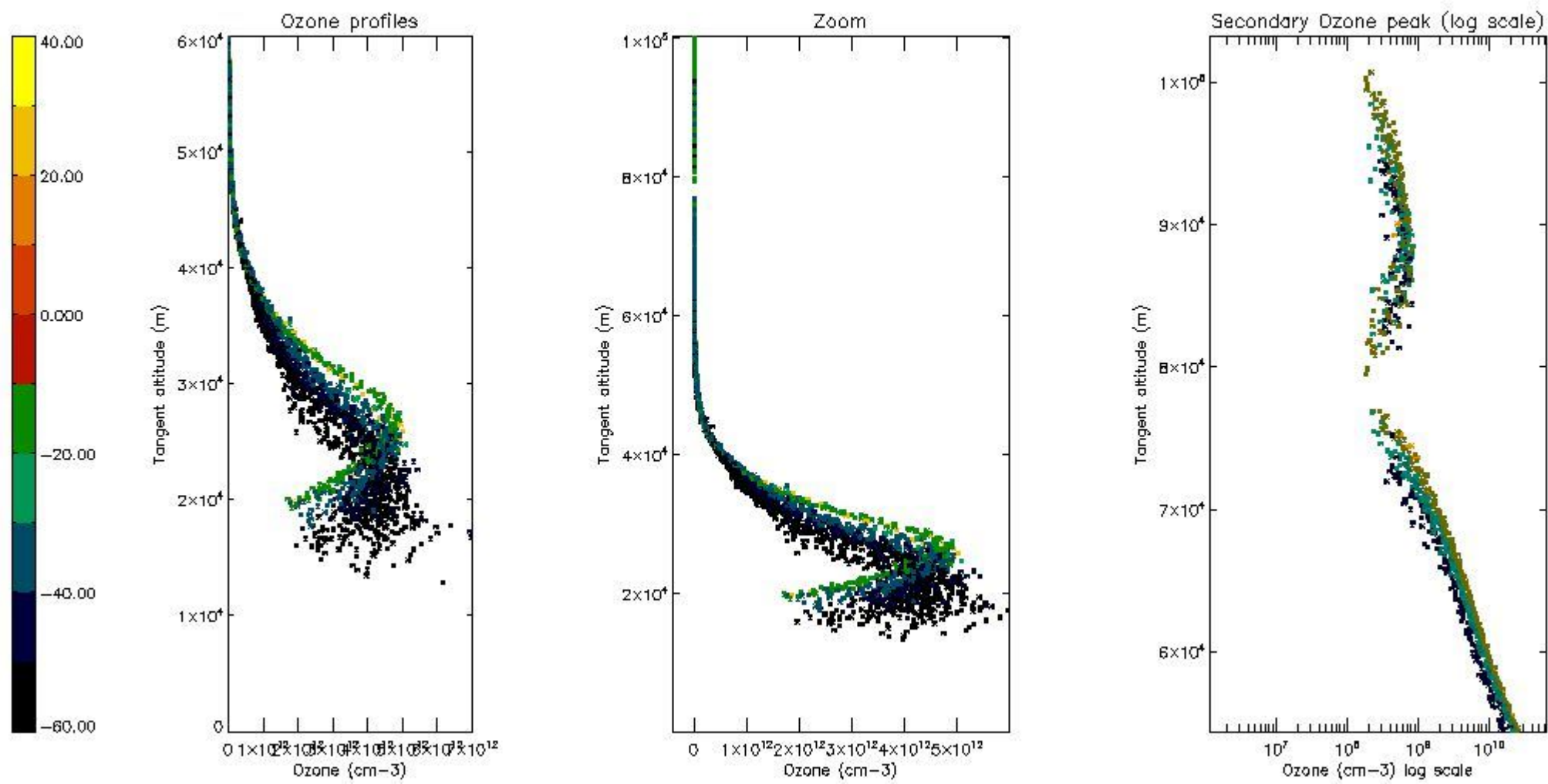
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



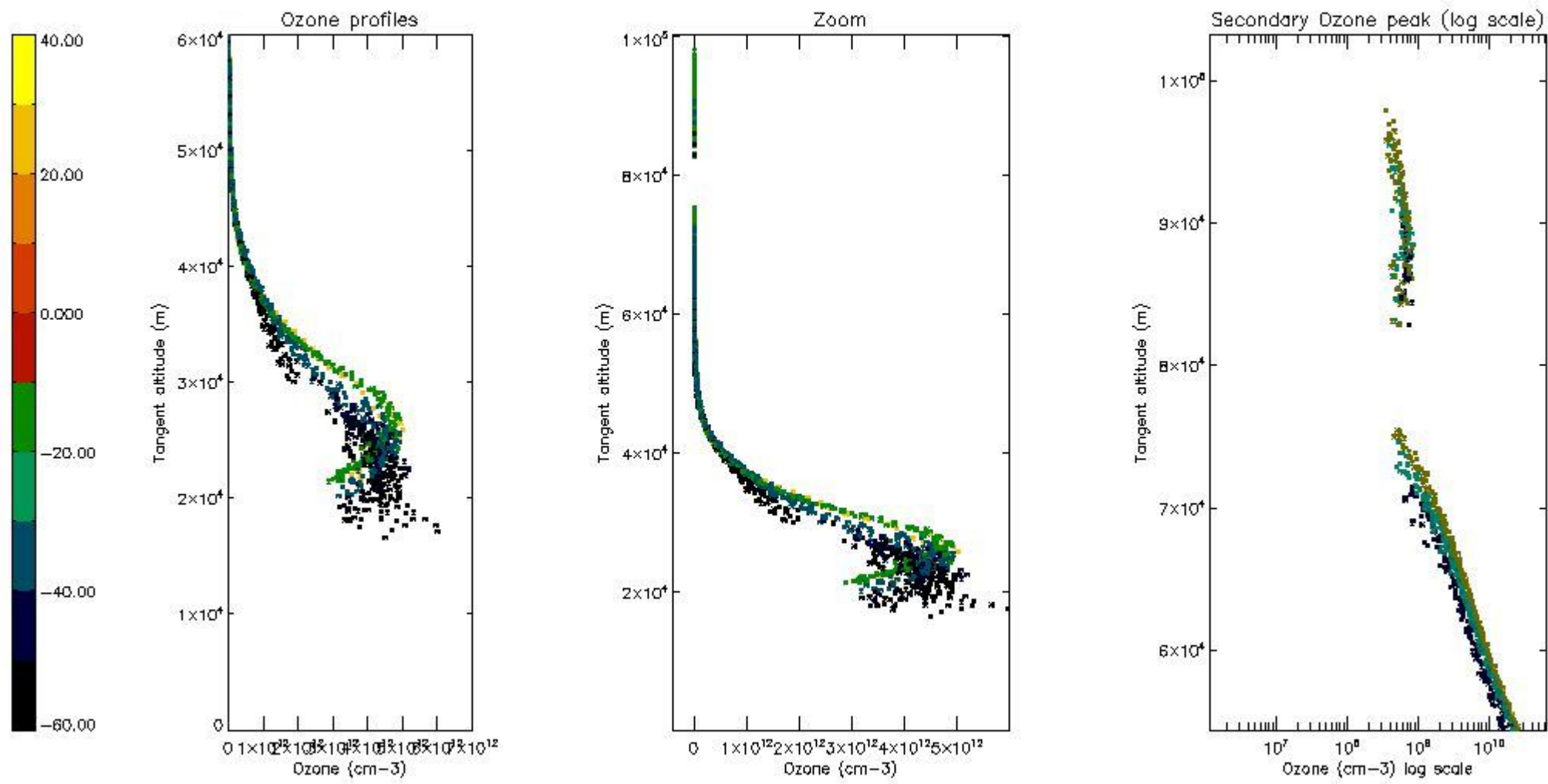
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



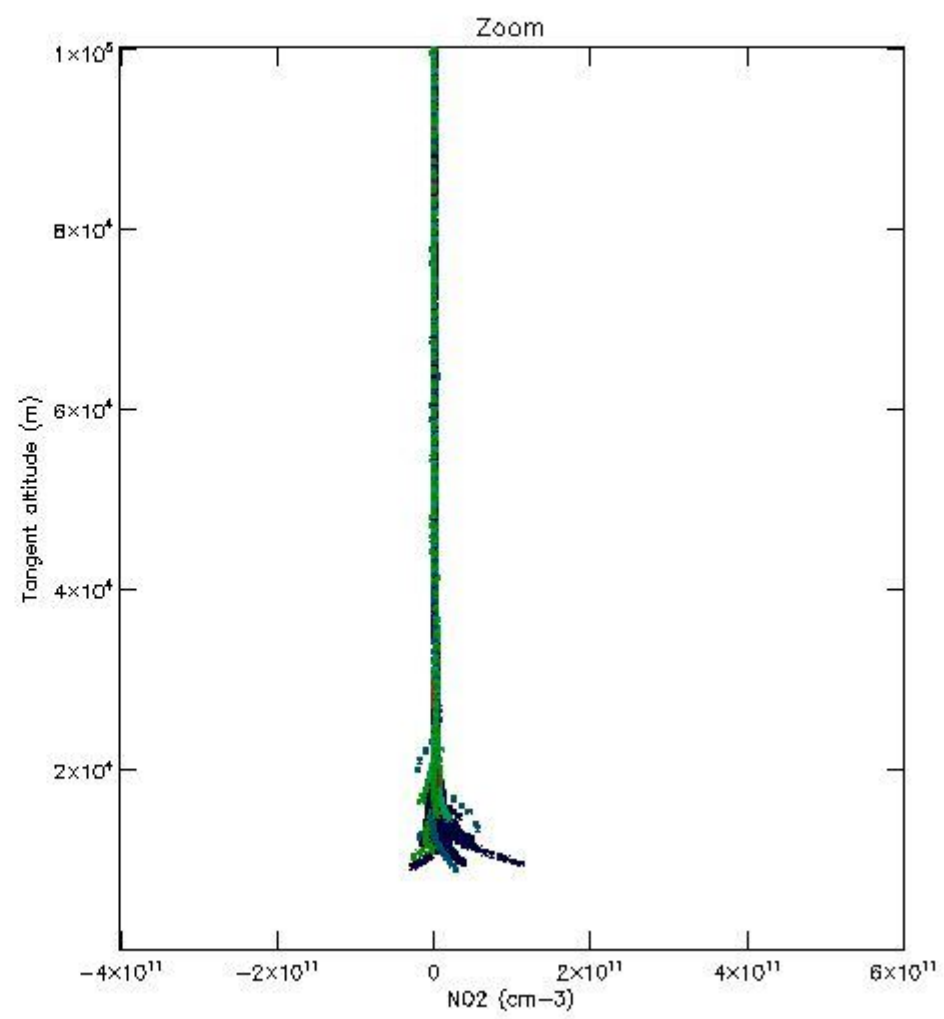
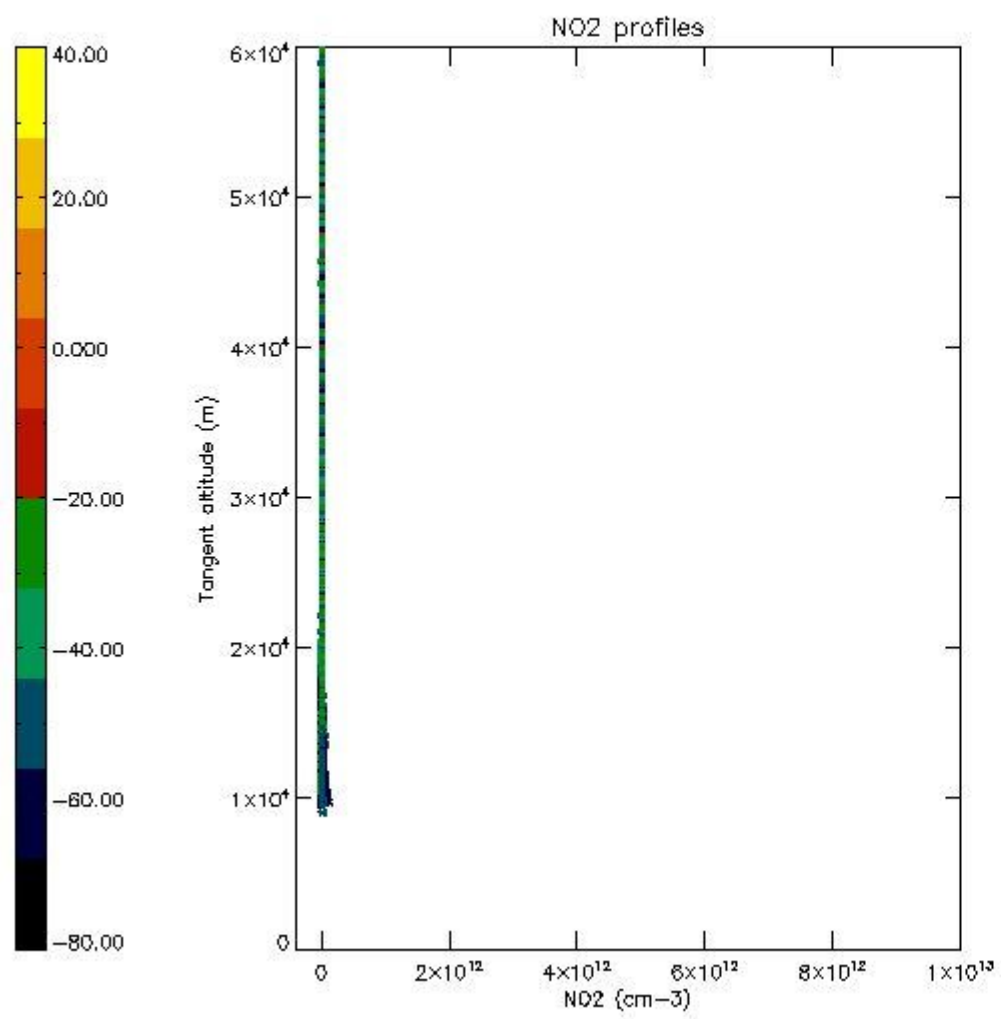
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



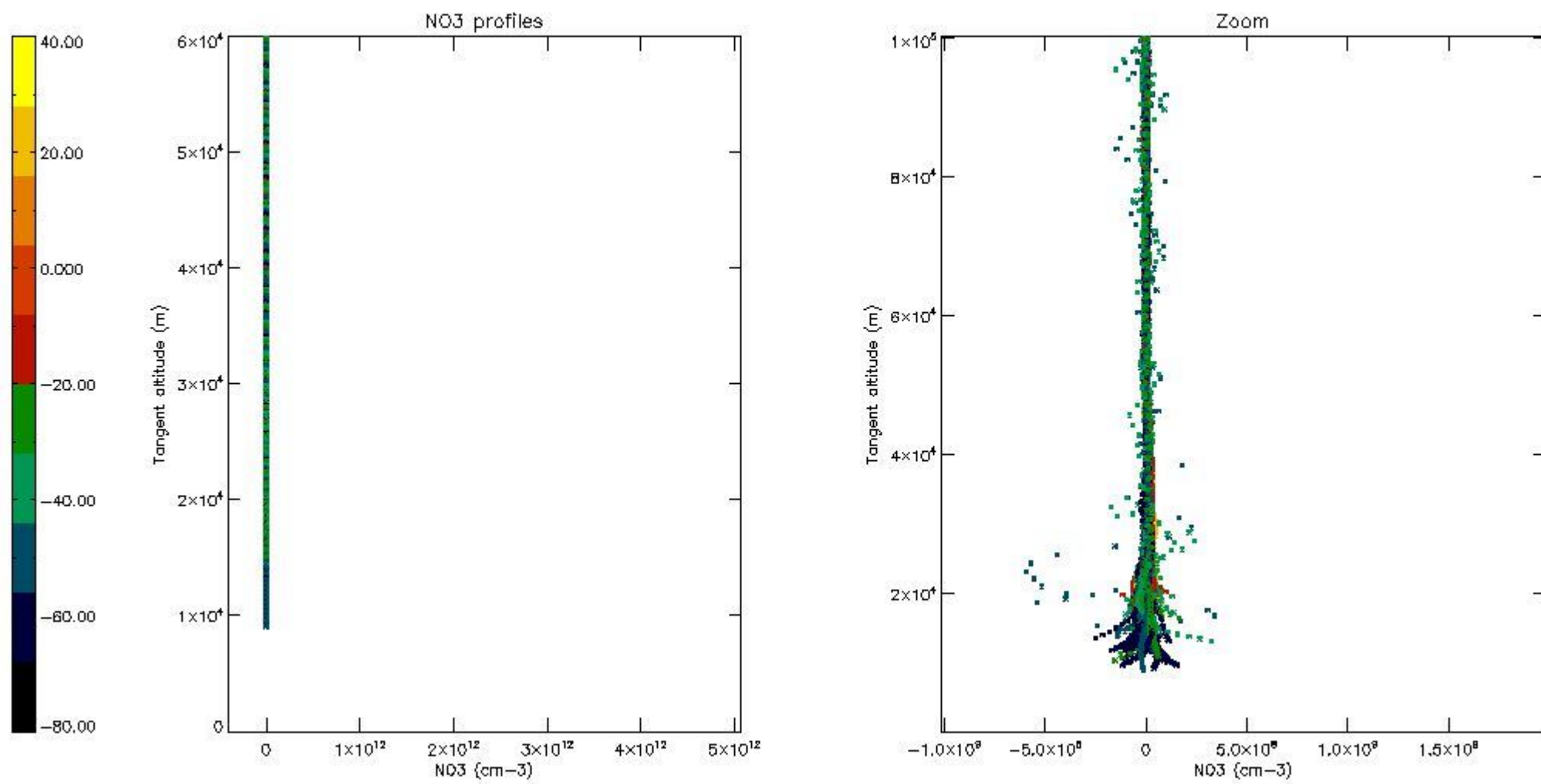
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



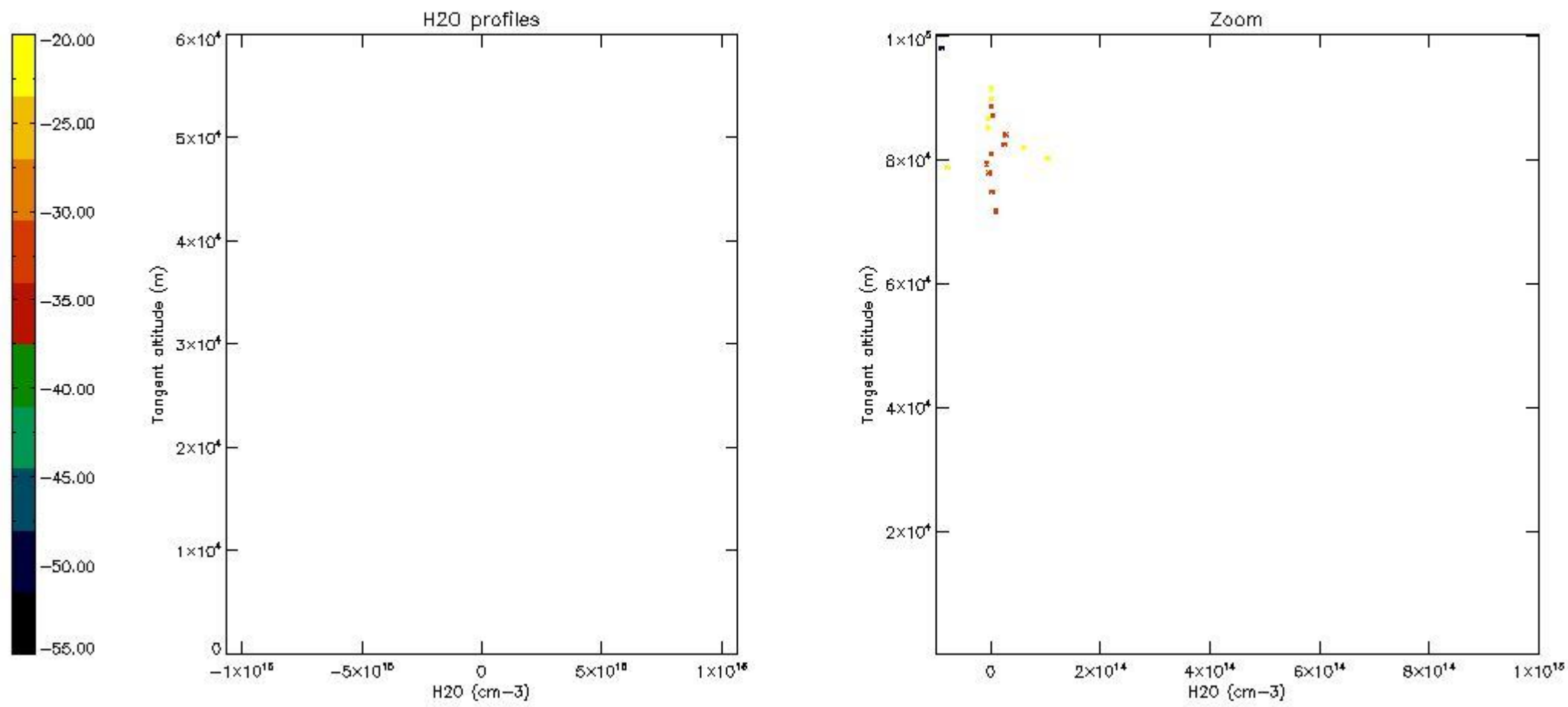
5.7 Plot NO3 profiles for all STD (dark without errors)

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_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	30-APR-2003 00:02:17
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	30-APR-2003 00:02:17
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	30-APR-2003 00:02:17

GOMOS Level 2 Daily Report

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

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

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

[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](#)

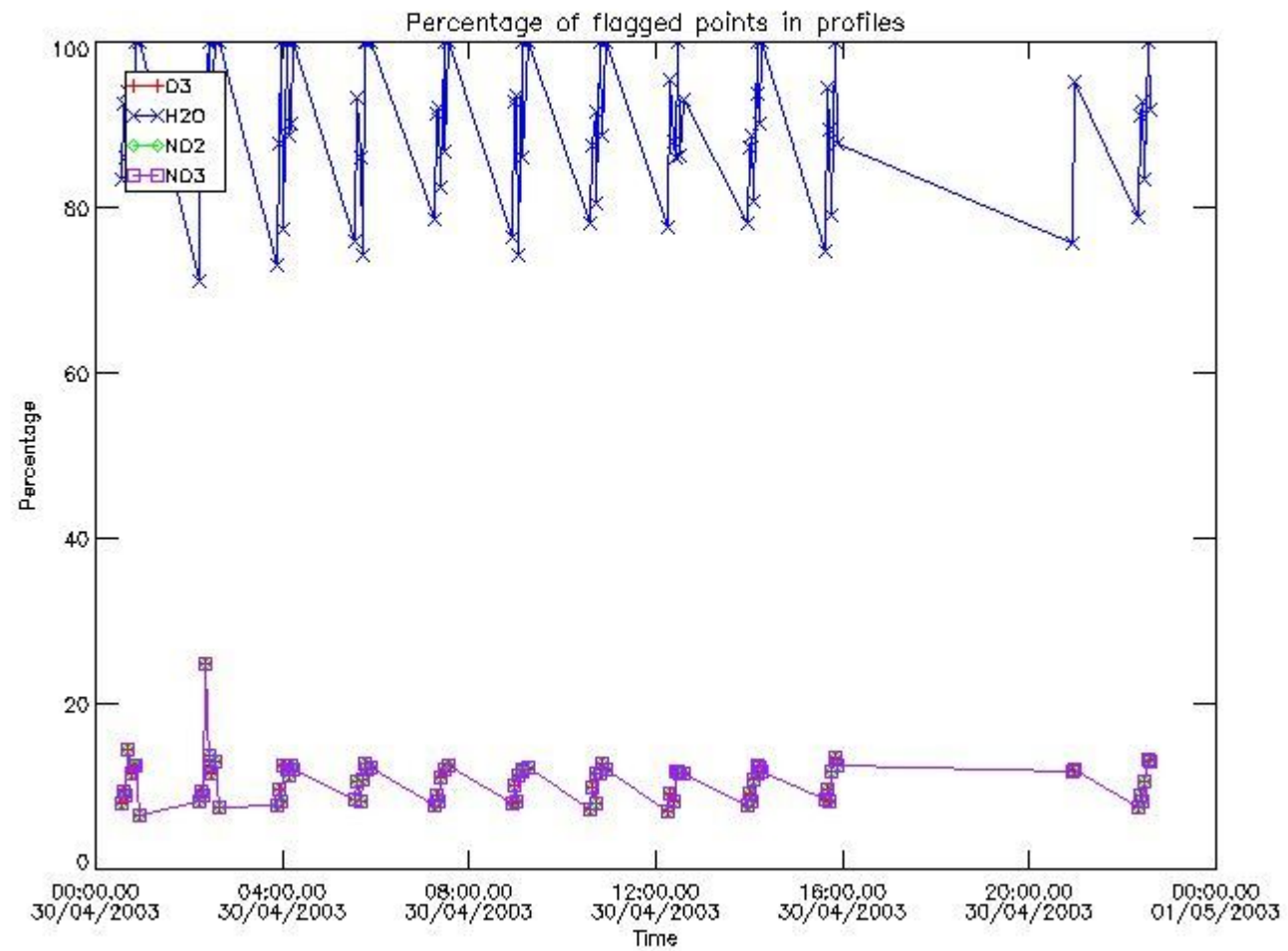
[6. Auxiliary Data Files used for the production reported in section 2](#)

338	GOM_NL__2PRFIN20030430_231755_000000472016_00030_06096_6689.N1	30-APR-2003 23:17:55	Bright	46.500	83		2.3780	11000.	93	6096	No
339	GOM_NL__2PRFIN20030430_231936_000000342016_00030_06096_6690.N1	30-APR-2003 23:19:36	Bright	33.500	152	12Alp2CVn	2.8900	11000.	67	6096	No
340	GOM_NL__2PRFIN20030430_232308_000000372016_00030_06096_6691.N1	30-APR-2003 23:23:08	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	6096	No
341	GOM_NL__2PRFIN20030430_232427_000000372016_00030_06096_6692.N1	30-APR-2003 23:24:27	Bright	37.000	55	79Zet UMa	2.0600	10200.	74	6096	No
342	GOM_NL__2PRFIN20030430_232651_000000382016_00030_06096_6693.N1	30-APR-2003 23:26:51	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	6096	No
343	GOM_NL__2PRFIN20030430_233036_000000382016_00030_06096_6694.N1	30-APR-2003 23:30:36	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	6096	No
344	GOM_NL__2PRFIN20030430_233421_000000322016_00030_06096_6695.N1	30-APR-2003 23:34:21	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	6096	No
345	GOM_NL__2PRFIN20030430_234047_000000442016_00030_06096_6696.N1	30-APR-2003 23:40:47	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	6096	No
346	GOM_NL__2PRFIN20030430_234220_000000422016_00030_06096_6697.N1	30-APR-2003 23:42:20	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	6096	No
347	GOM_NL__2PRFIN20030430_234336_000000352016_00030_06096_6698.N1	30-APR-2003 23:43:36	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	6096	No
348	GOM_NL__2PRFIN20030430_234558_000000622016_00030_06096_6699.N1	30-APR-2003 23:45:58	Bright	61.500	19	50Alp Cyg	1.2460	10500.	123	6096	No
349	GOM_NL__2PRFIN20030430_235127_000000842016_00030_06096_6700.N1	30-APR-2003 23:51:27	Twilight	84.000	92	53Eps Cyg	2.5000	4500.0	168	6096	No
350	GOM_NL__2PRFIN20030430_235628_000000452016_00030_06096_6701.N1	30-APR-2003 23:56:28	Twilight	44.500	90	54Alp Peg	2.4870	11000.	89	6096	No

3. Quality information per product

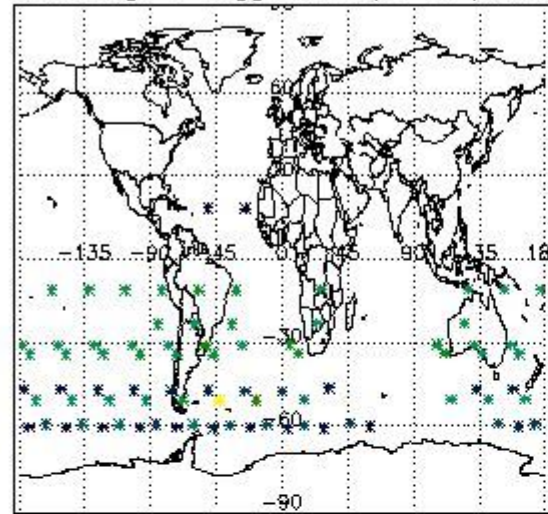
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

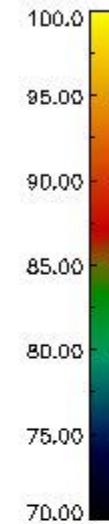
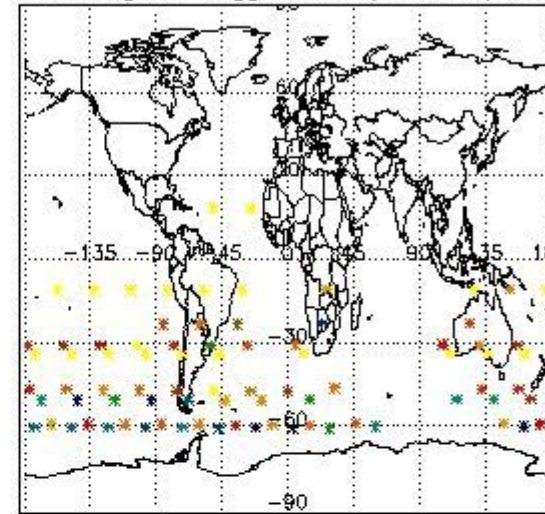


3.2 Plot quality information per product (world map)

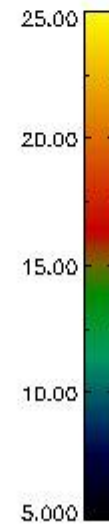
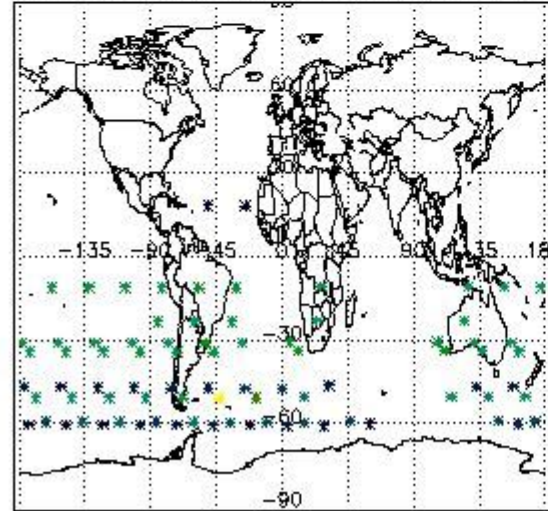
Percentage of flagged data per O3 profile



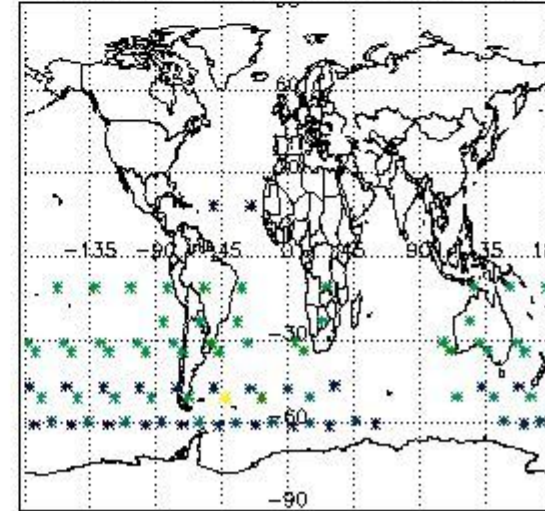
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

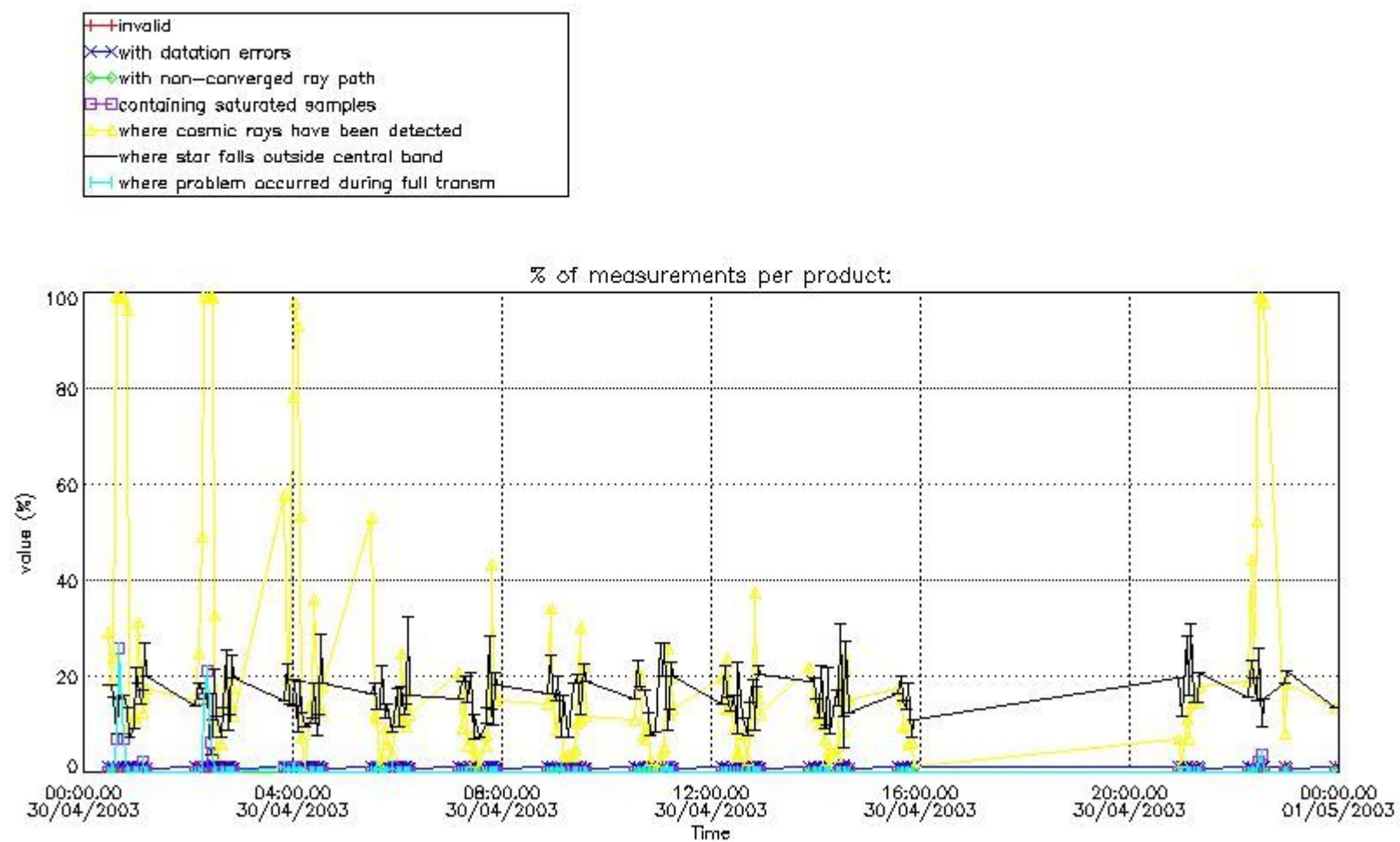


4. Level 1 quality information per product

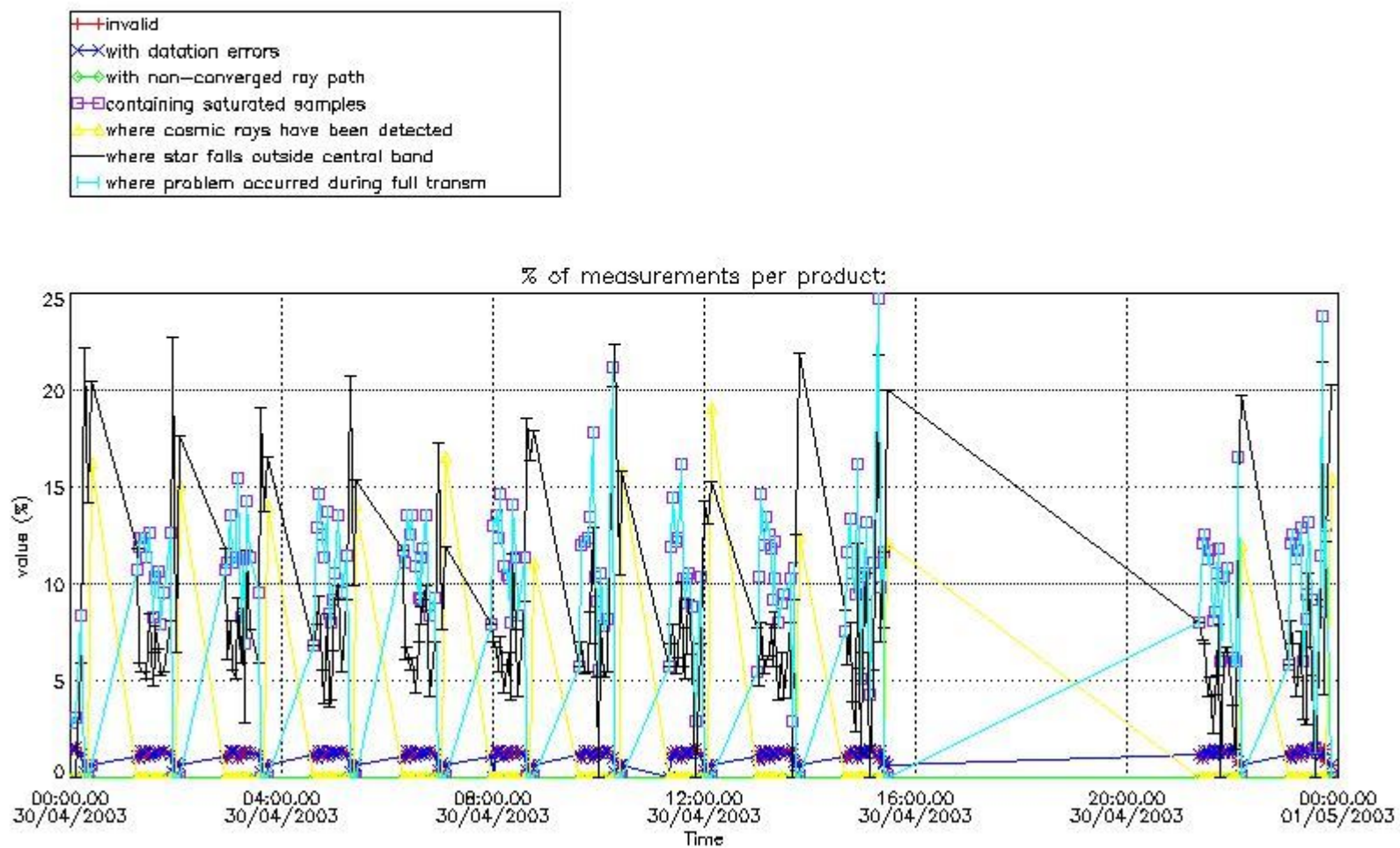
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

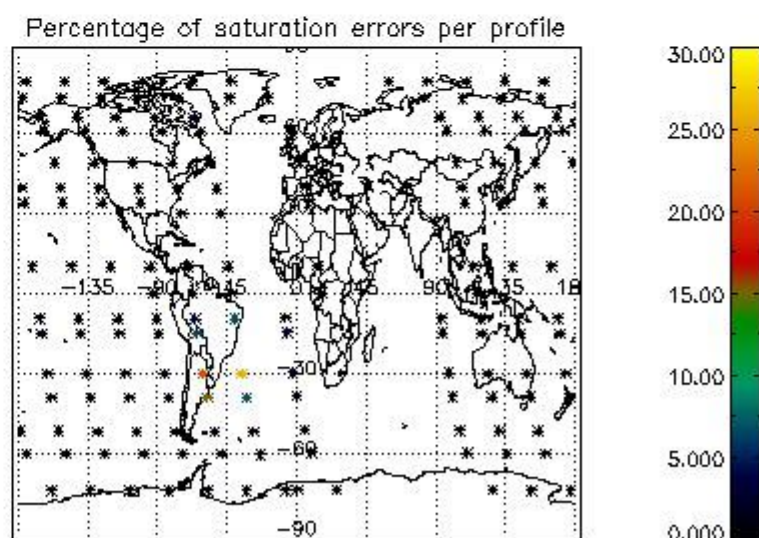
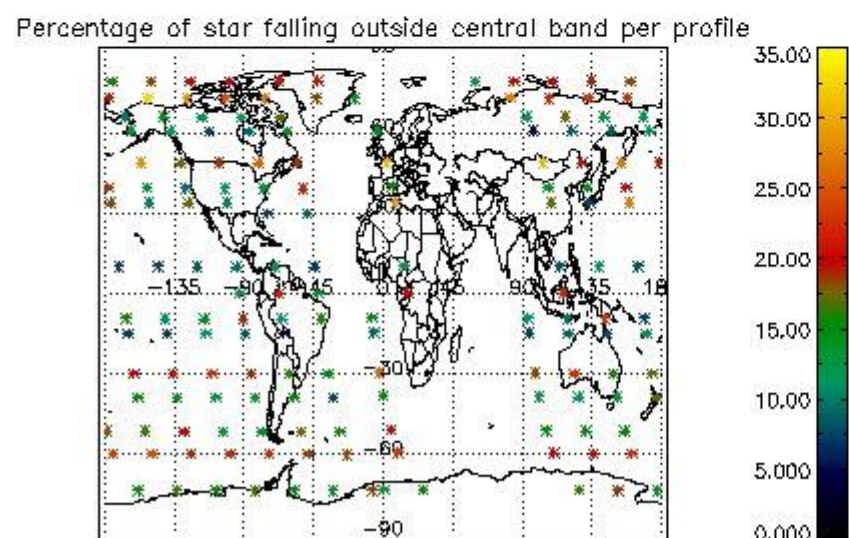
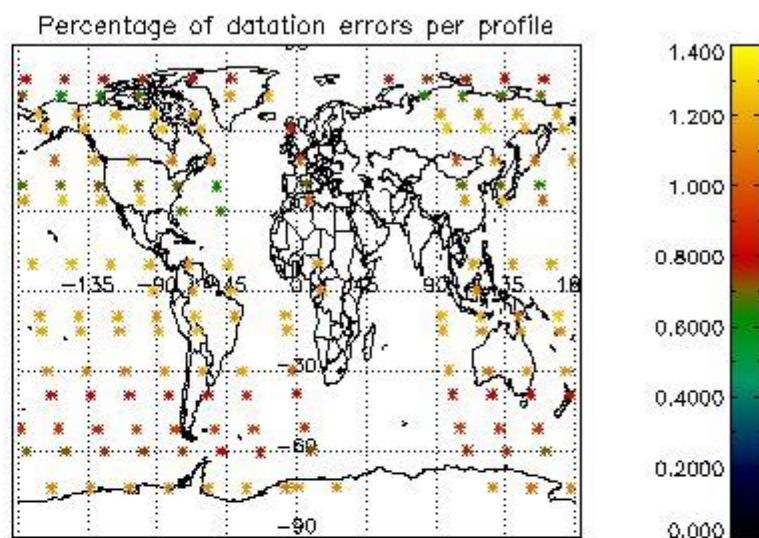
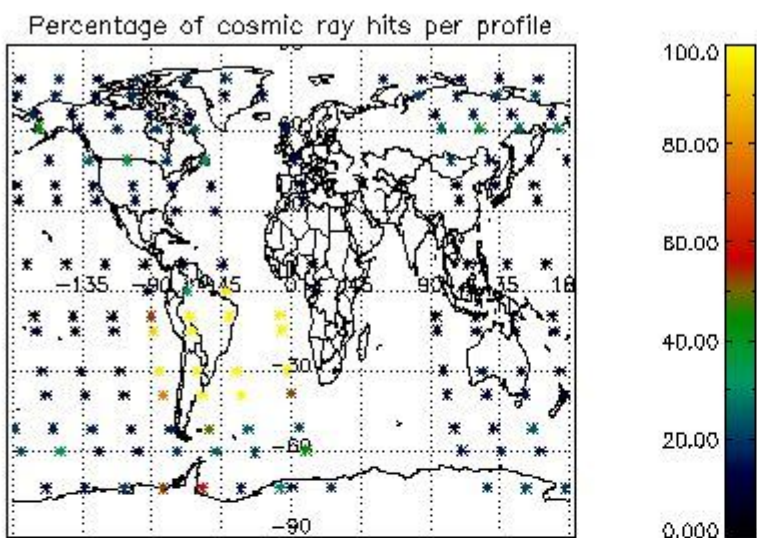


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

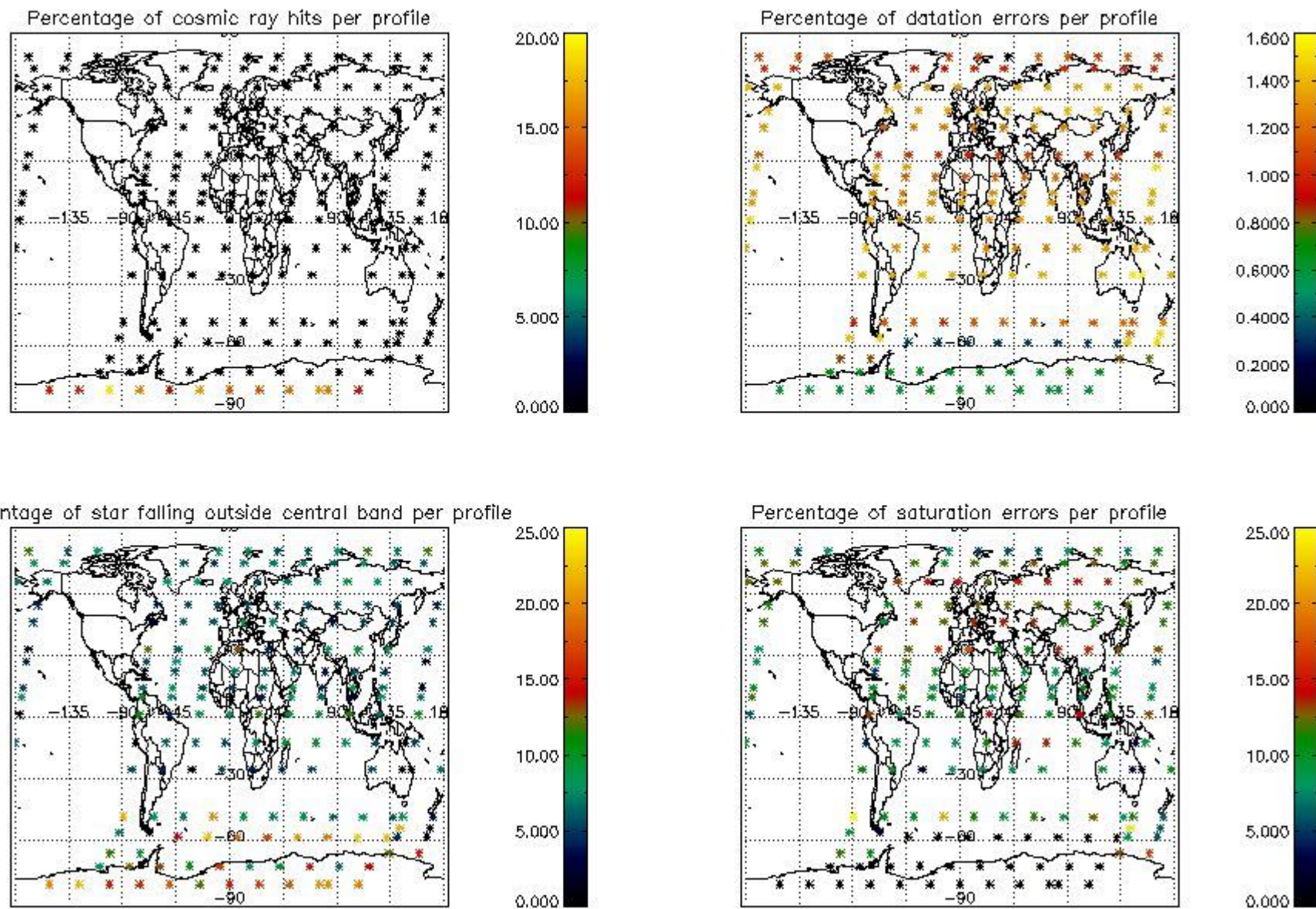


4.2 Plot quality information per product coming from level 1b processing (world map)

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

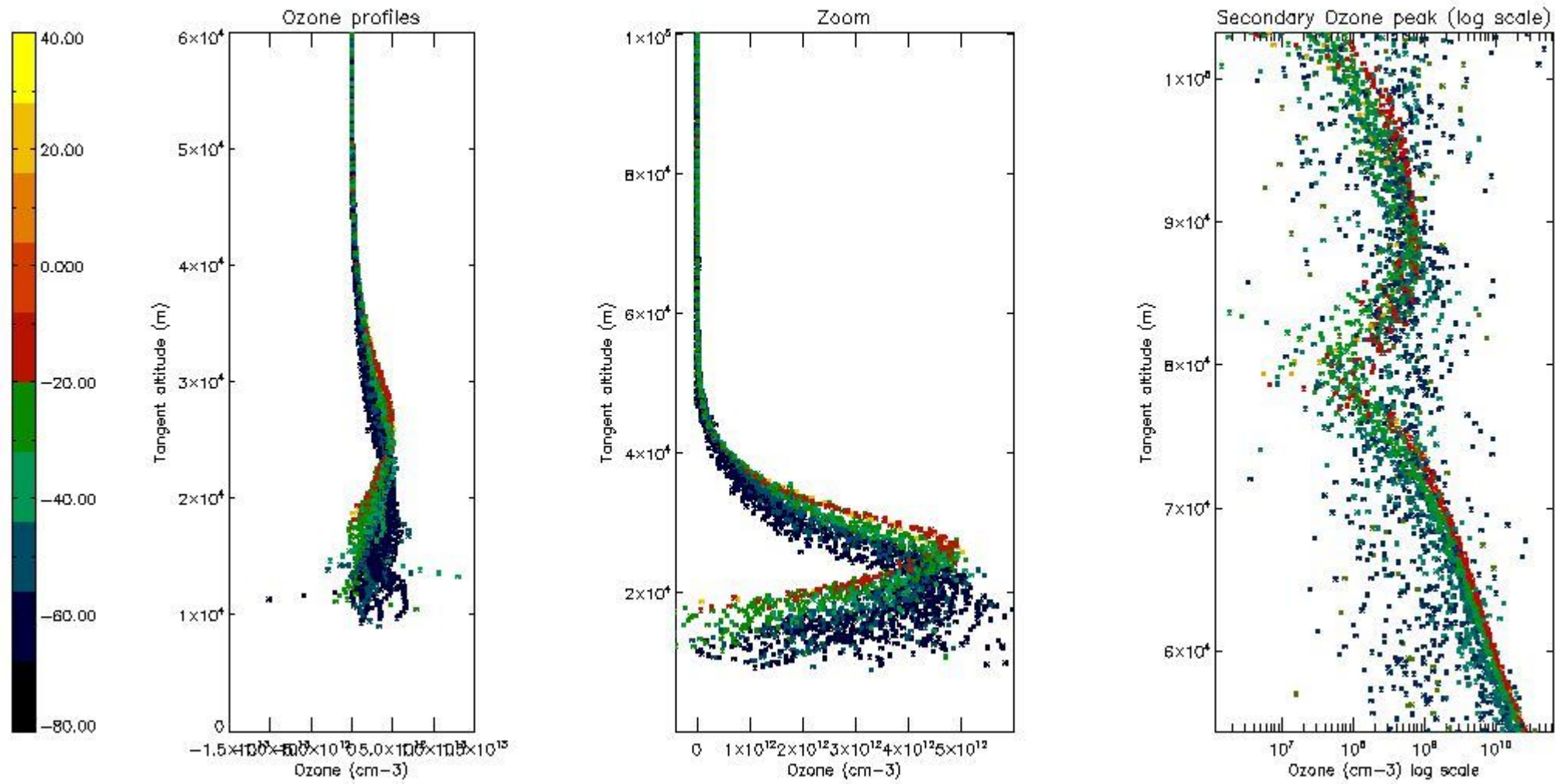
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	12

STD < 10	9
STD < 5	6

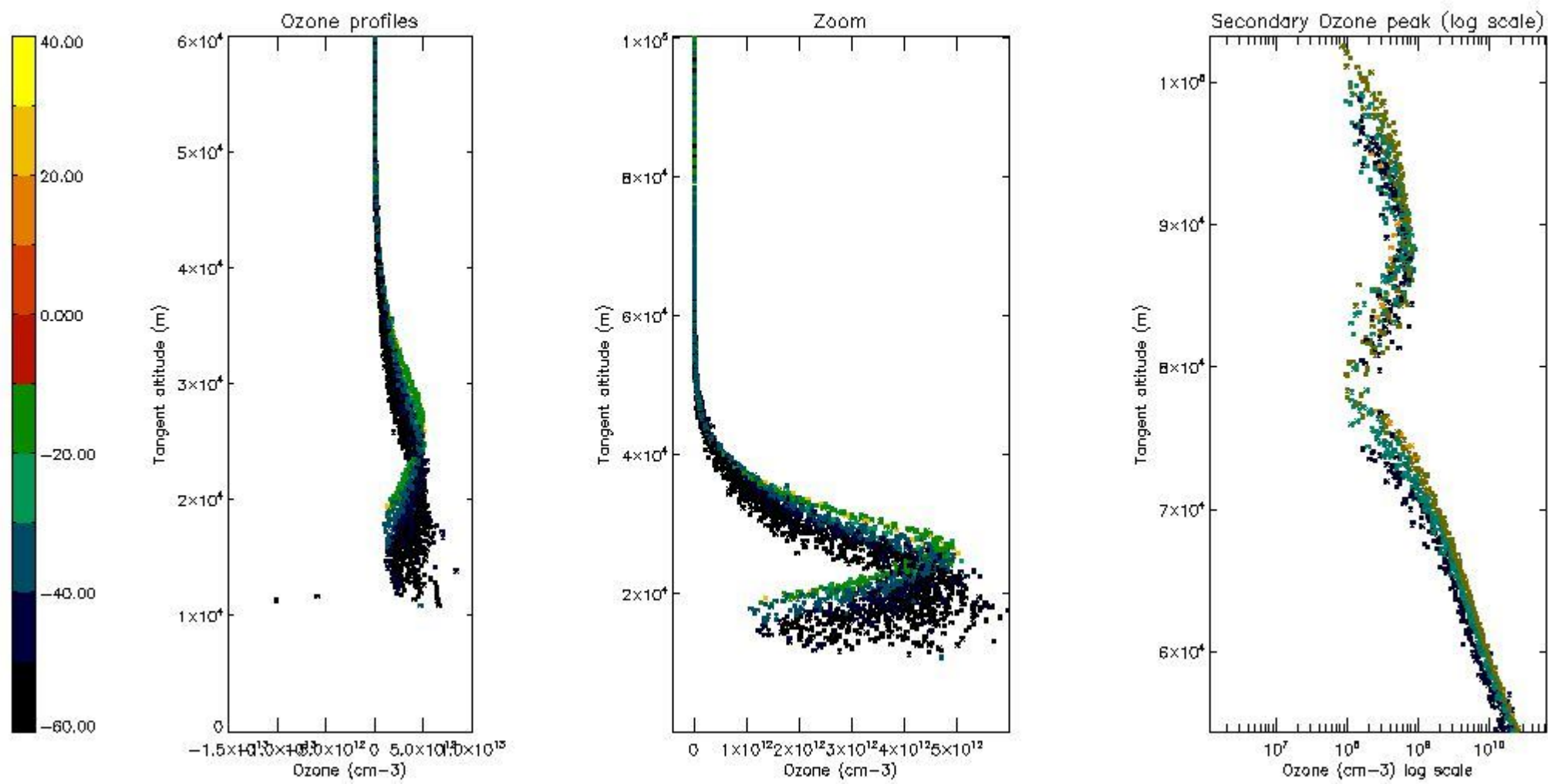
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



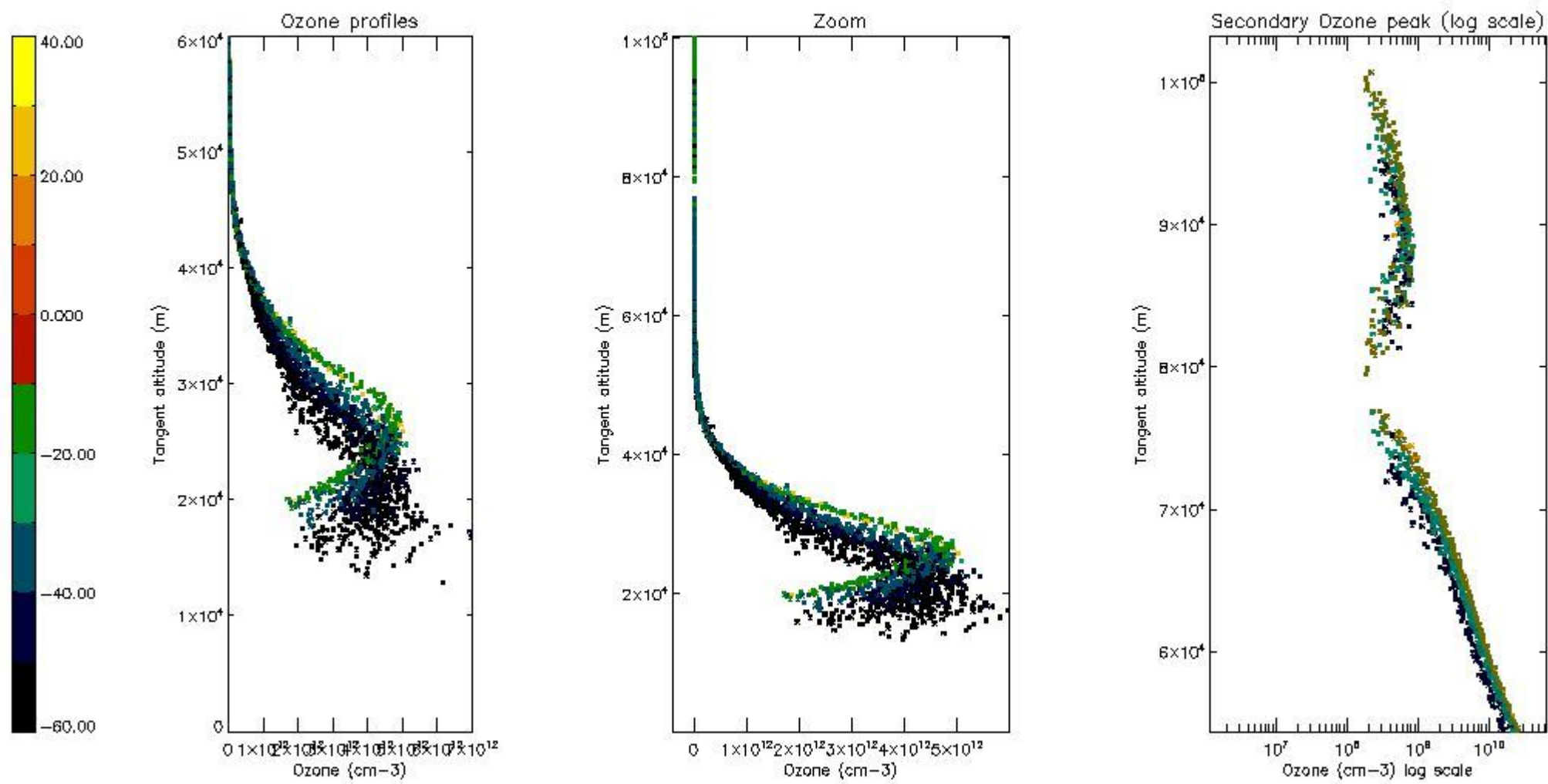
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



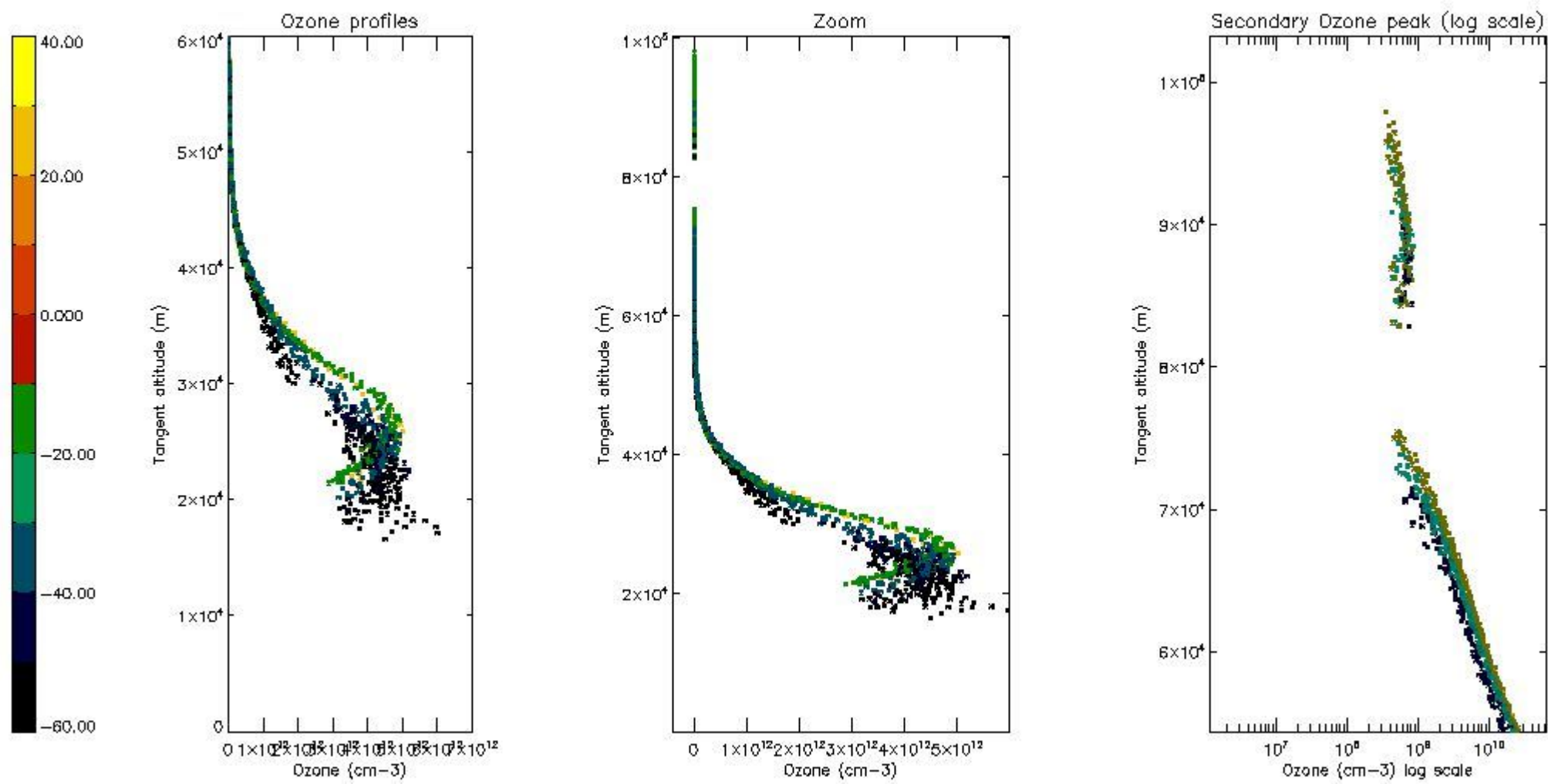
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



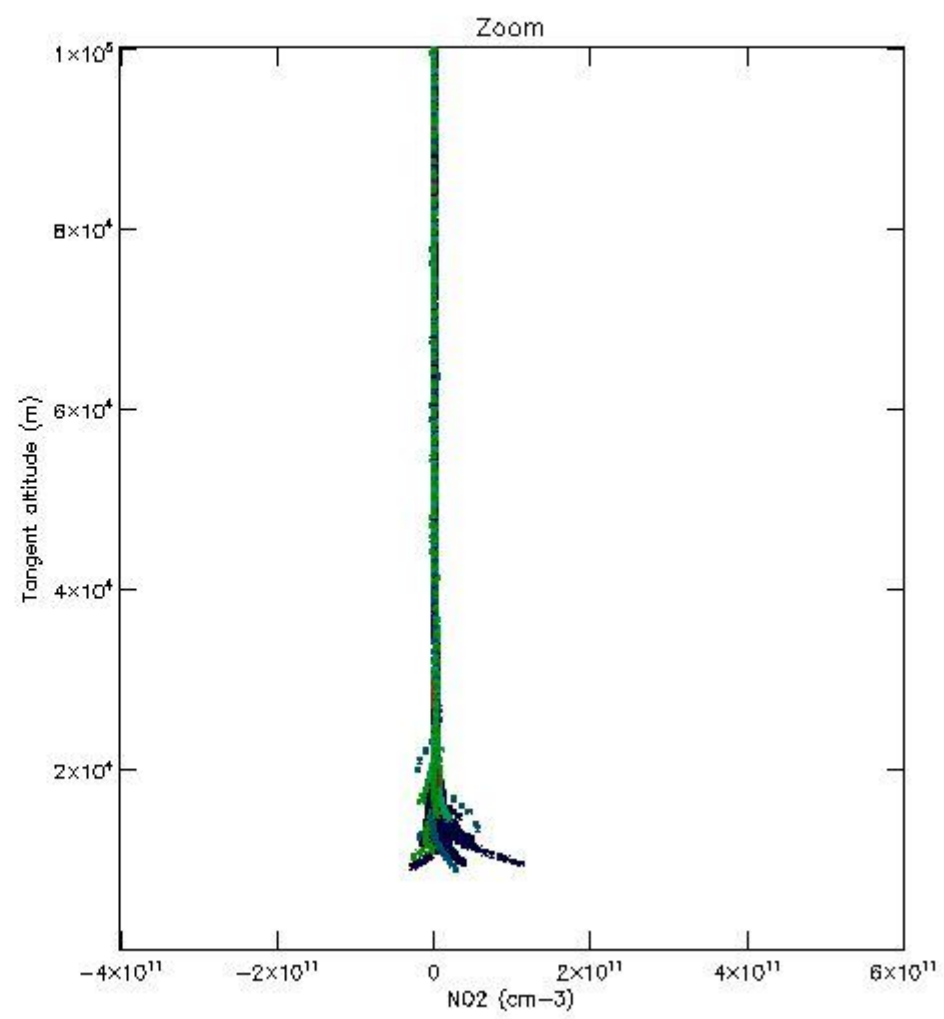
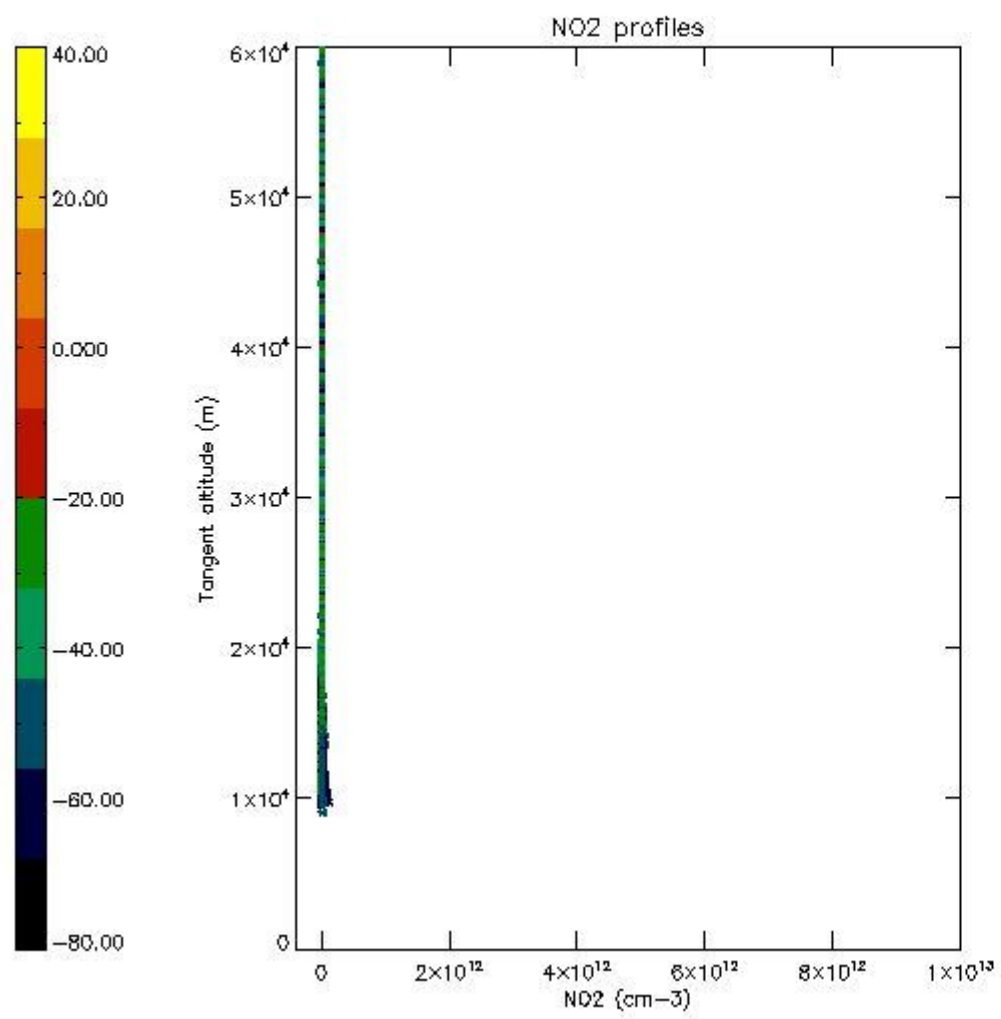
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



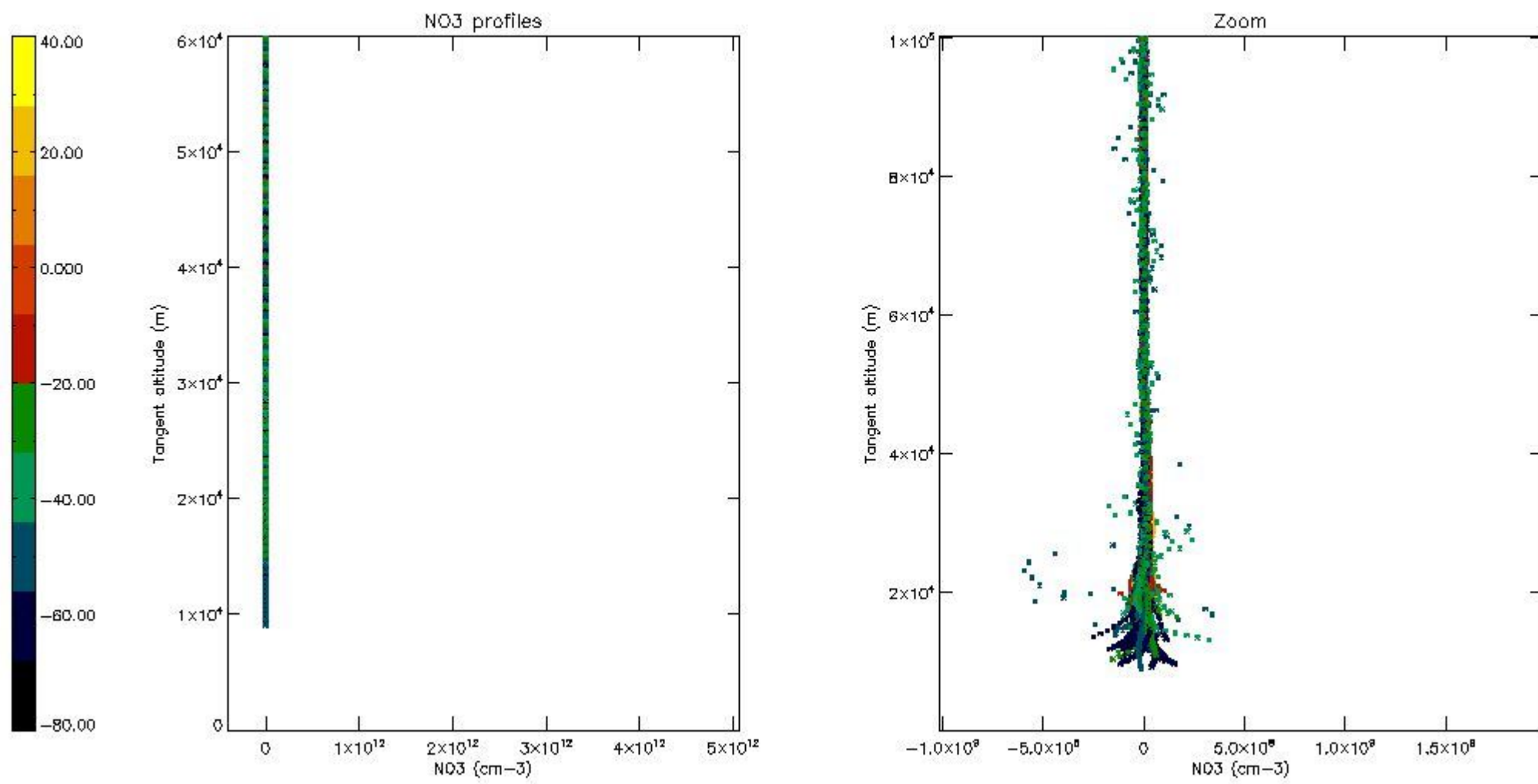
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



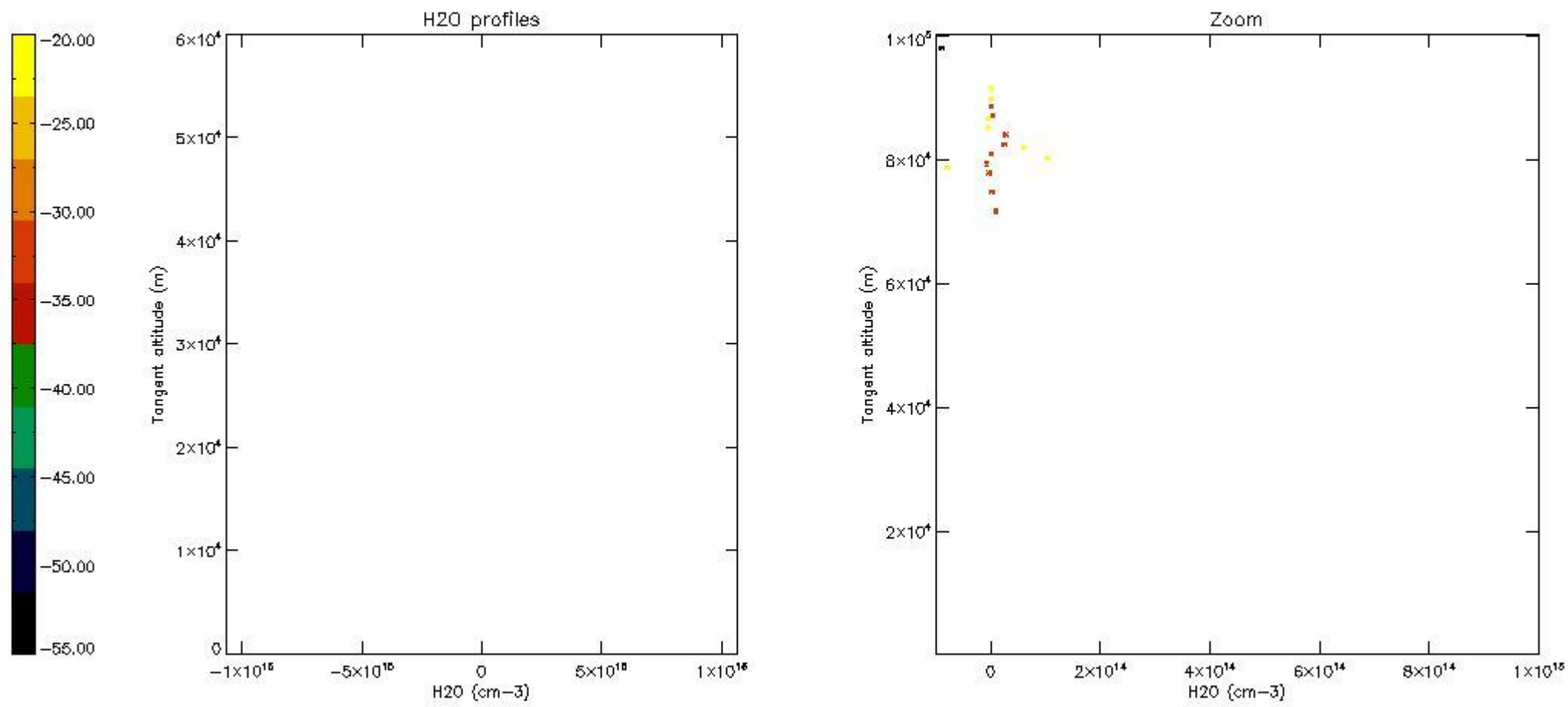
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

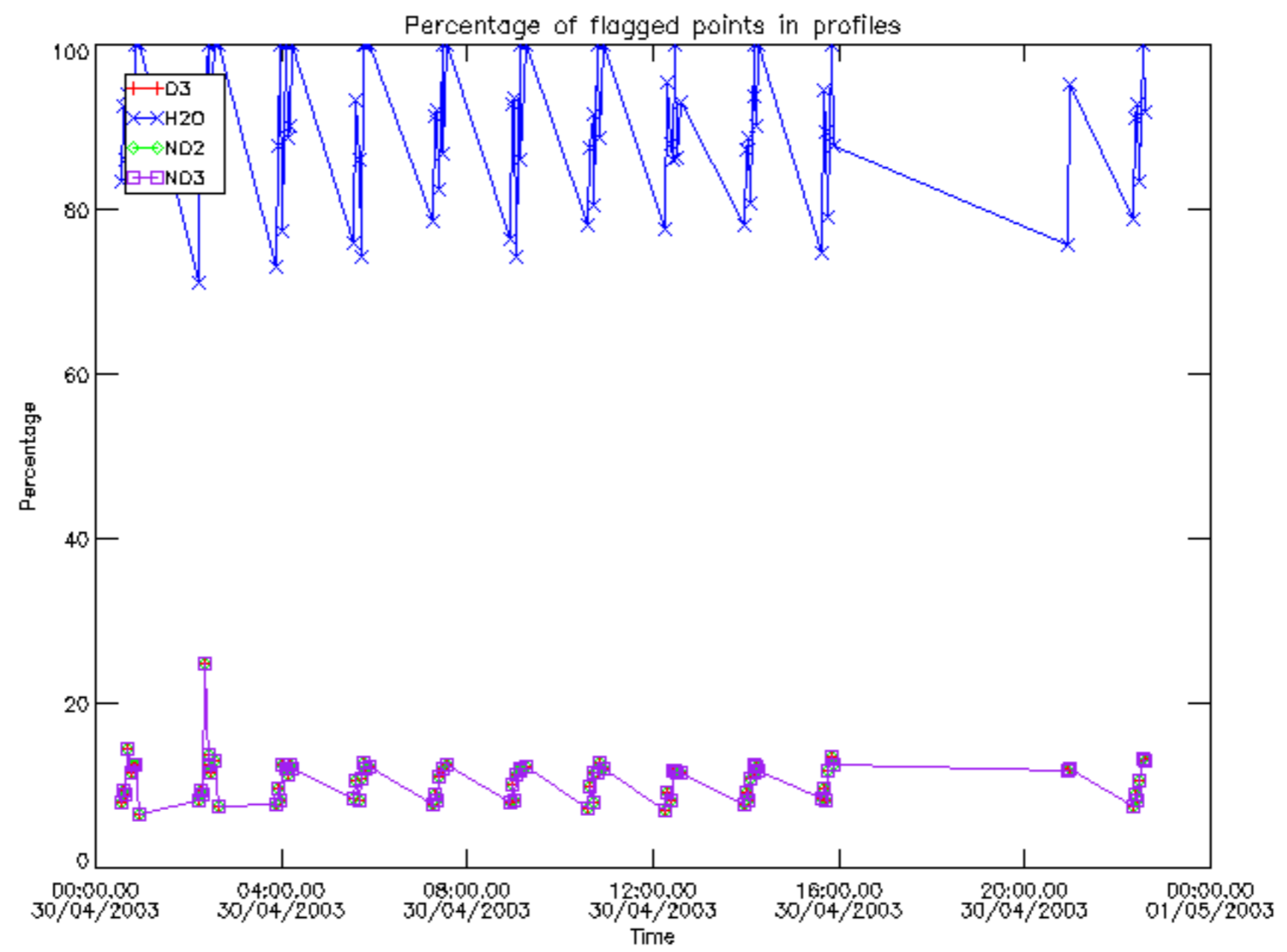
The colorbar represents the latitude.



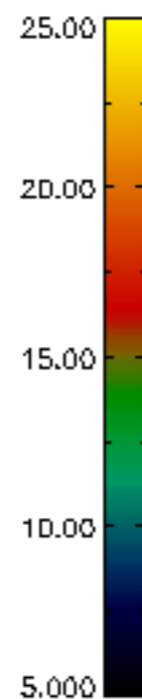
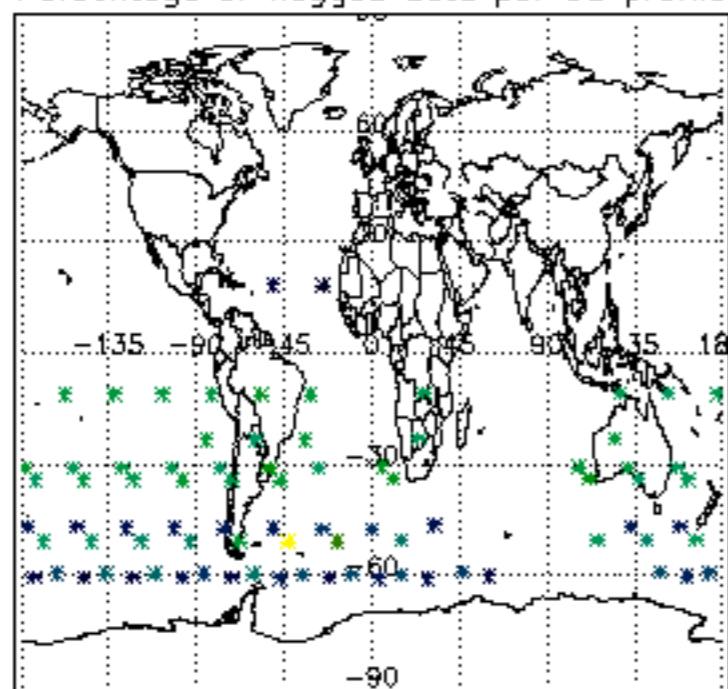
6. Auxiliary Data Files used for the production reported in section 2

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.

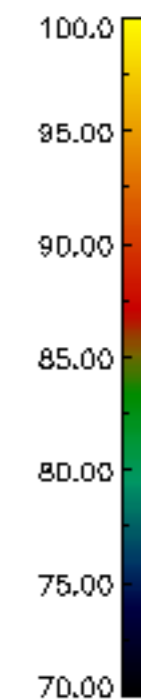
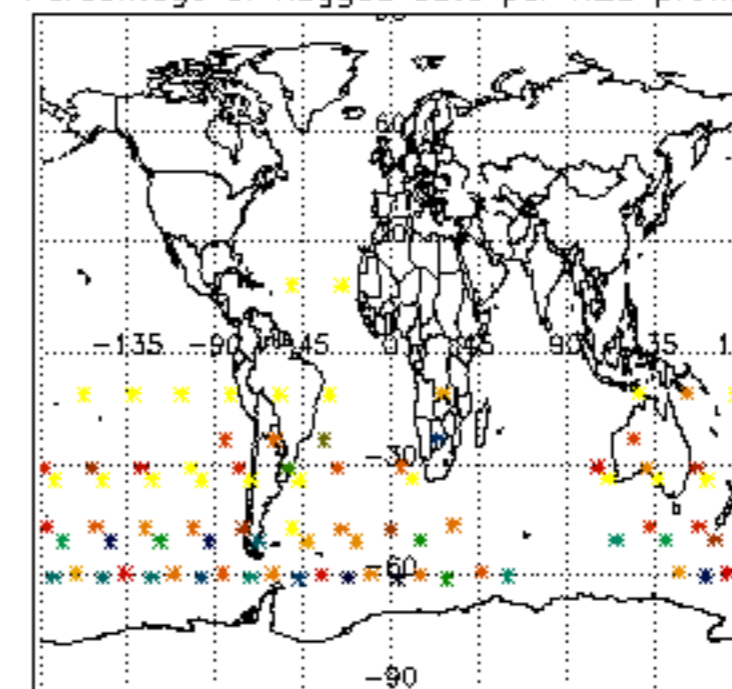
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	30-APR-2003 00:02:17
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	30-APR-2003 00:02:17
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	30-APR-2003 00:02:17



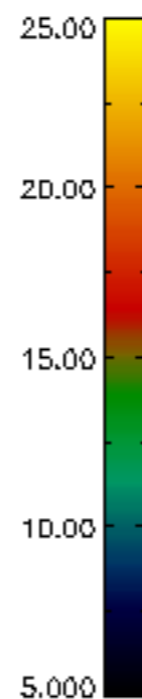
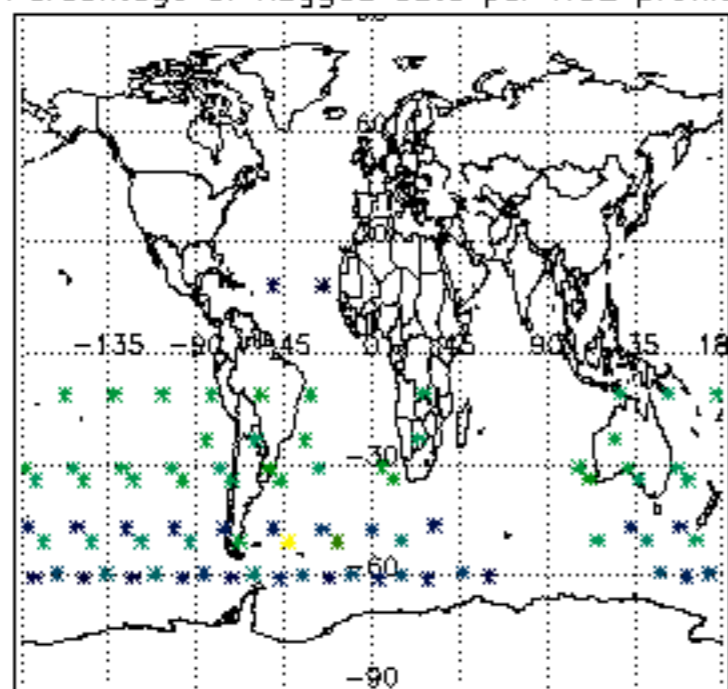
Percentage of flagged data per D3 profile



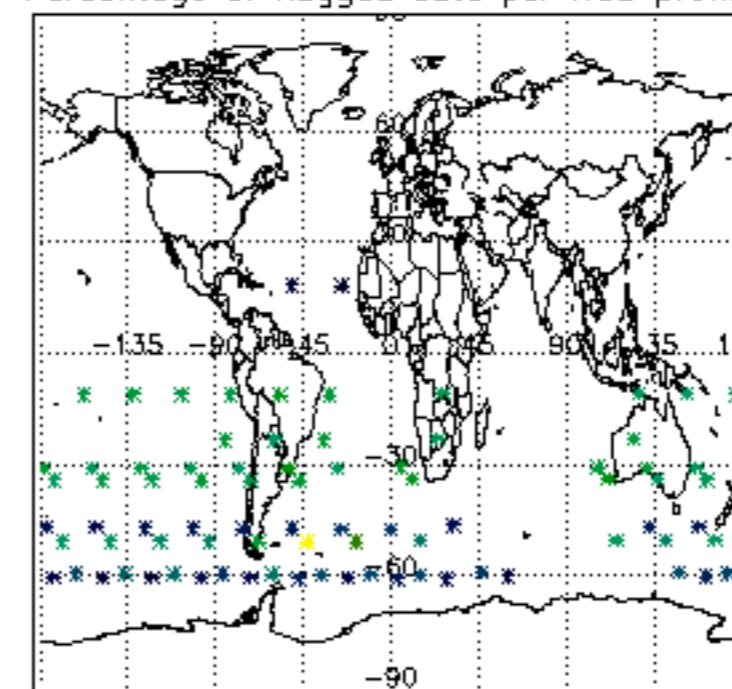
Percentage of flagged data per H2O profile

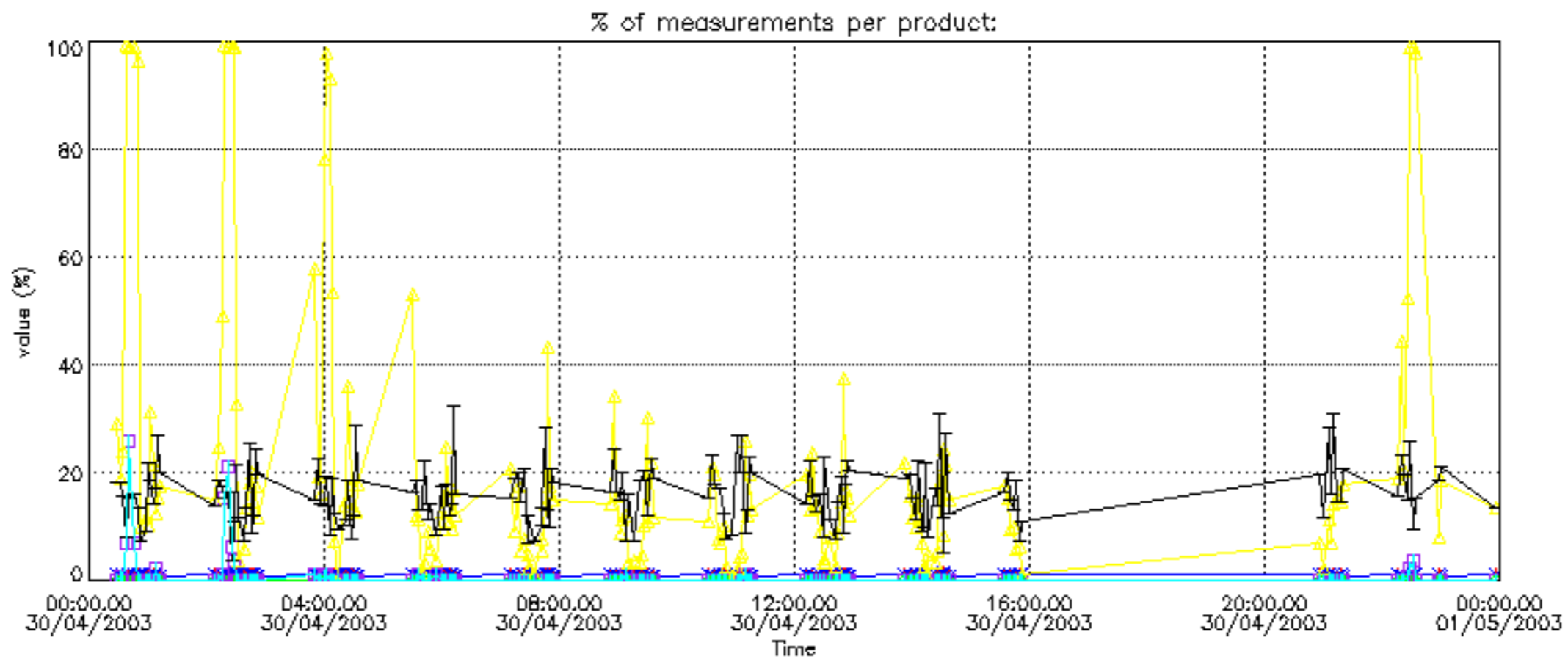


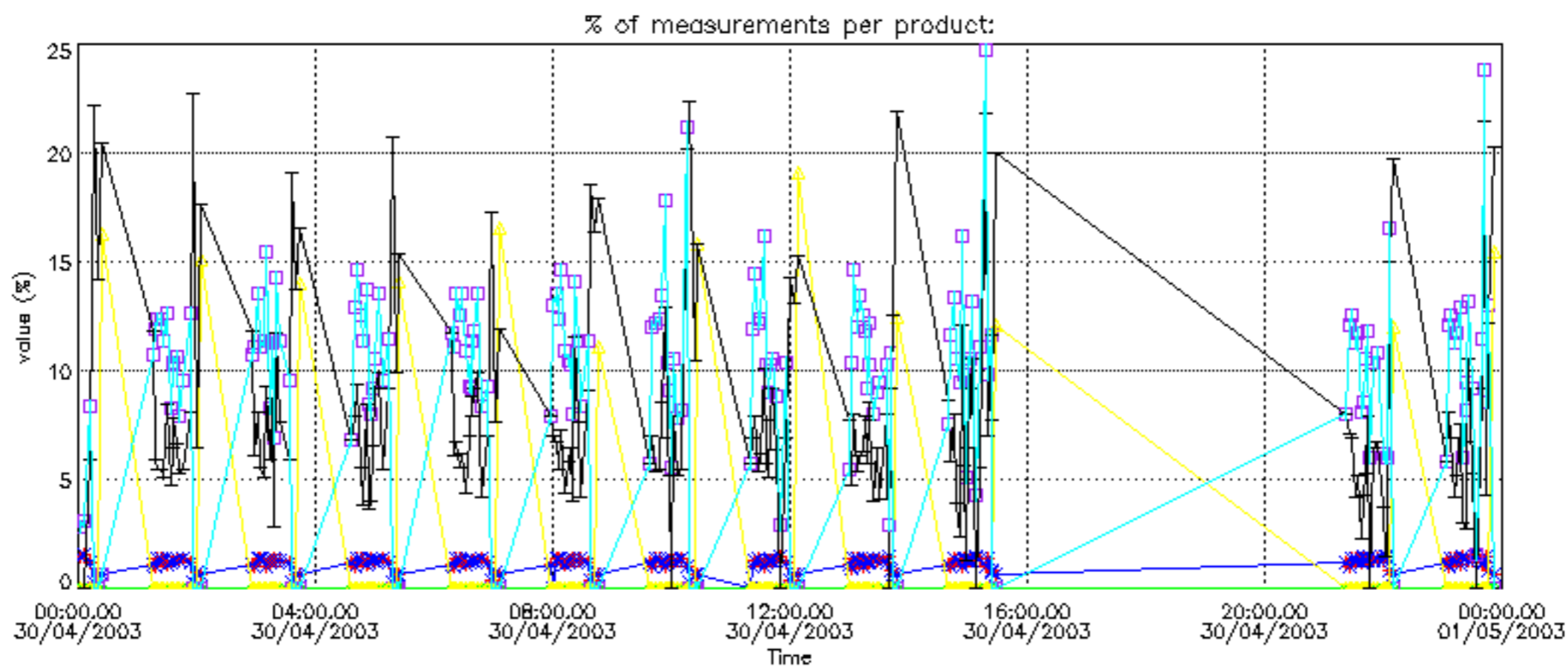
Percentage of flagged data per NO2 profile



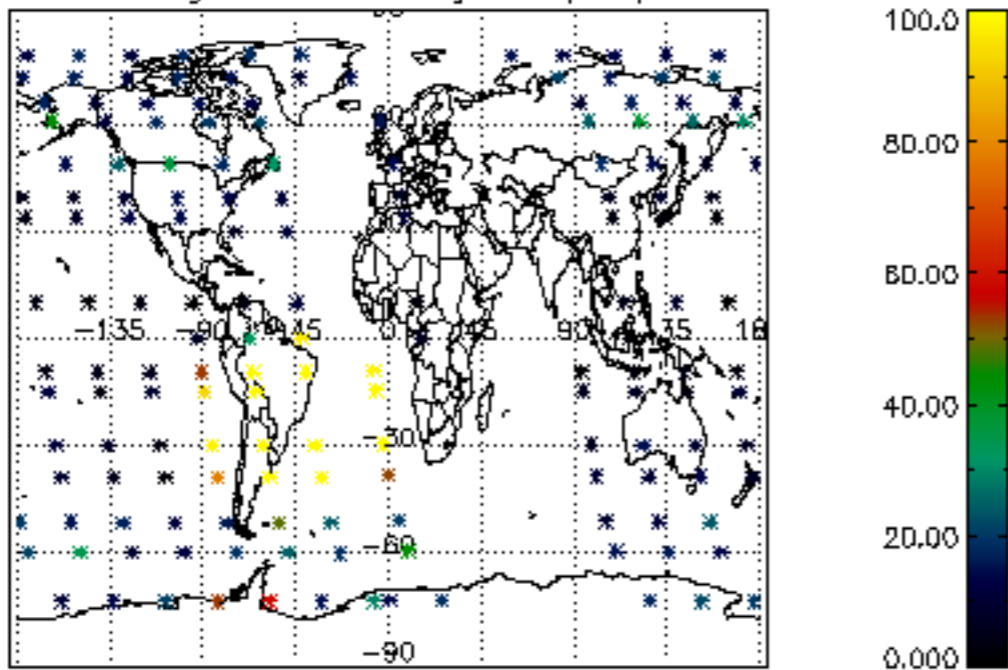
Percentage of flagged data per NO3 profile



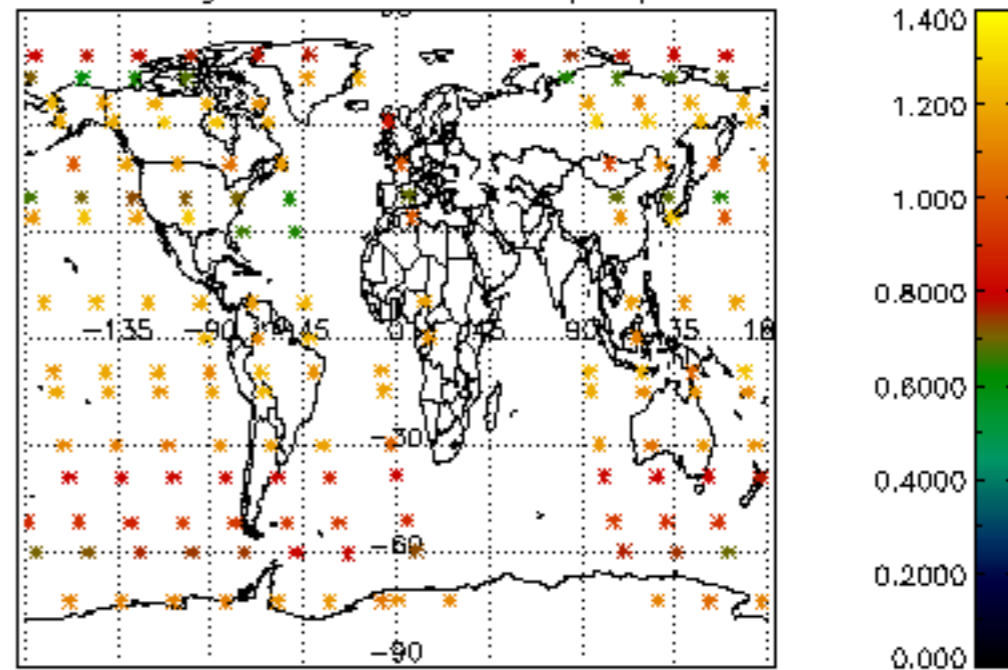




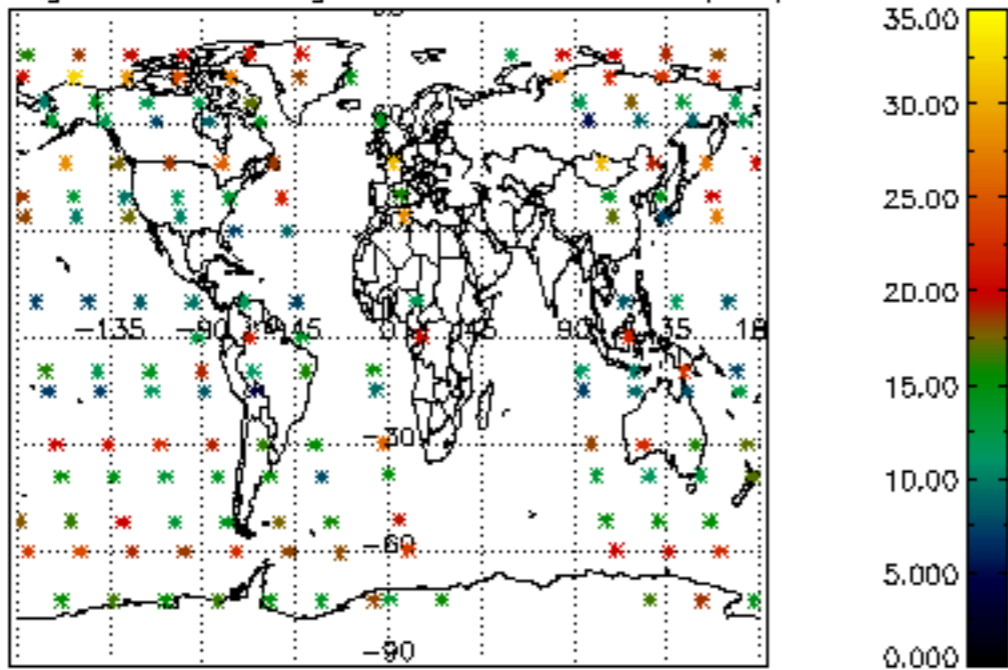
Percentage of cosmic ray hits per profile



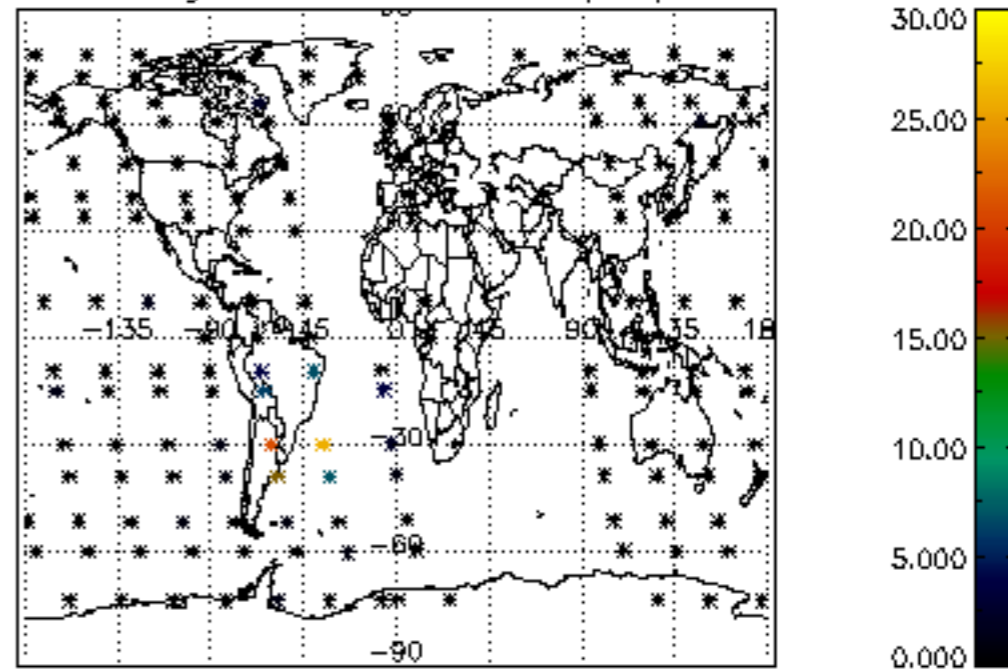
Percentage of datation errors per profile



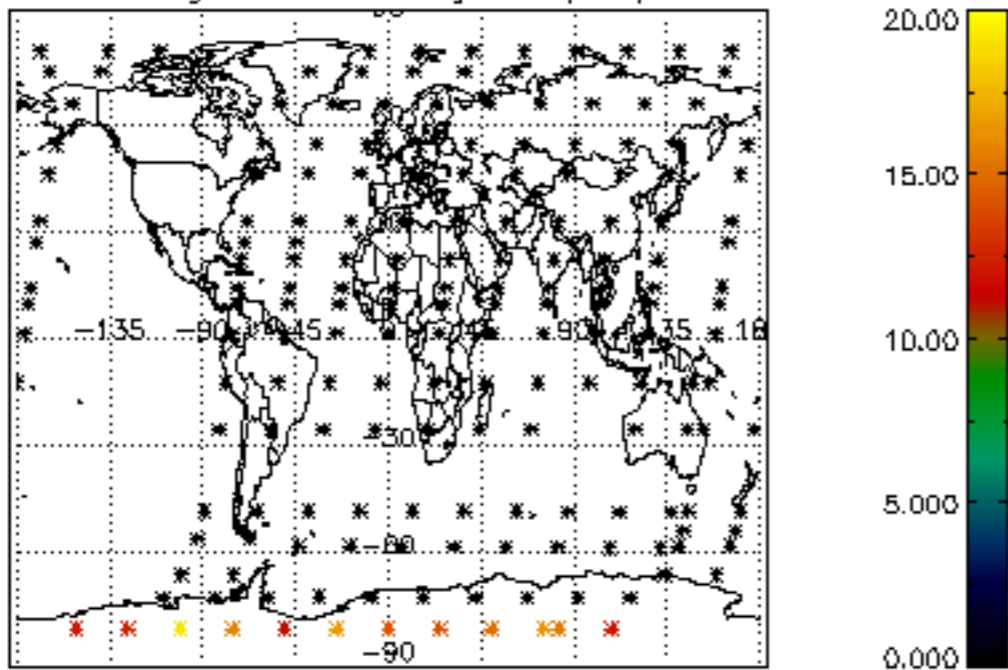
Percentage of star falling outside central band per profile



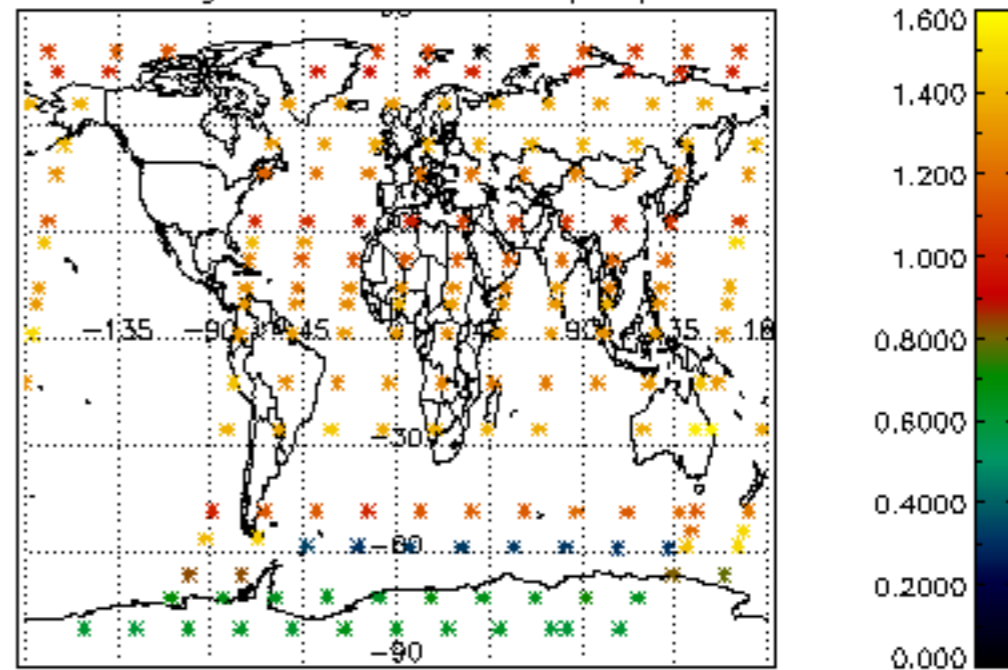
Percentage of saturation errors per profile



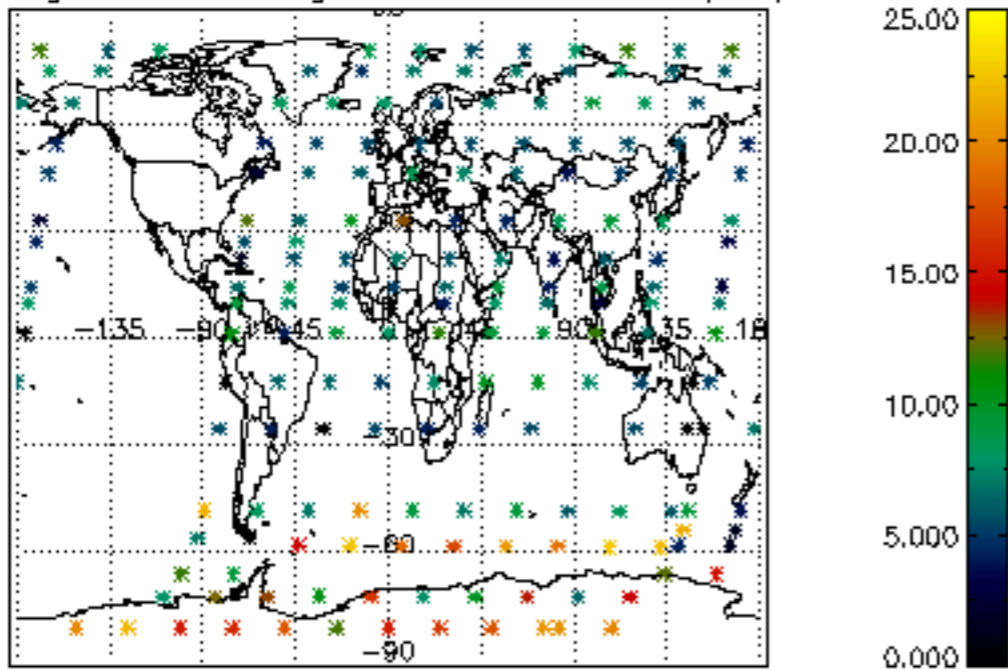
Percentage of cosmic ray hits per profile



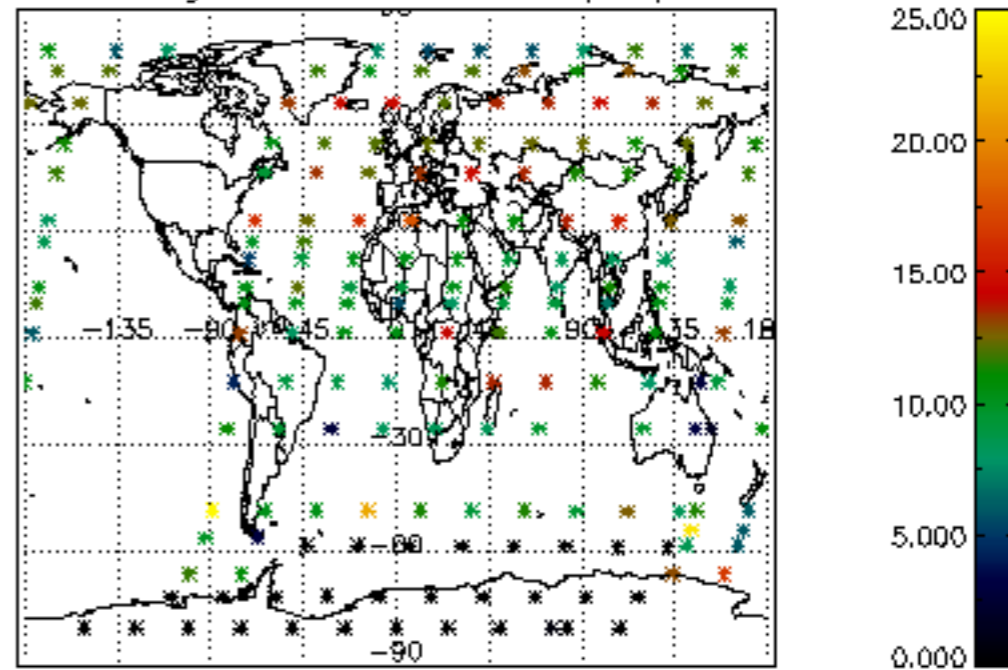
Percentage of datation errors per profile

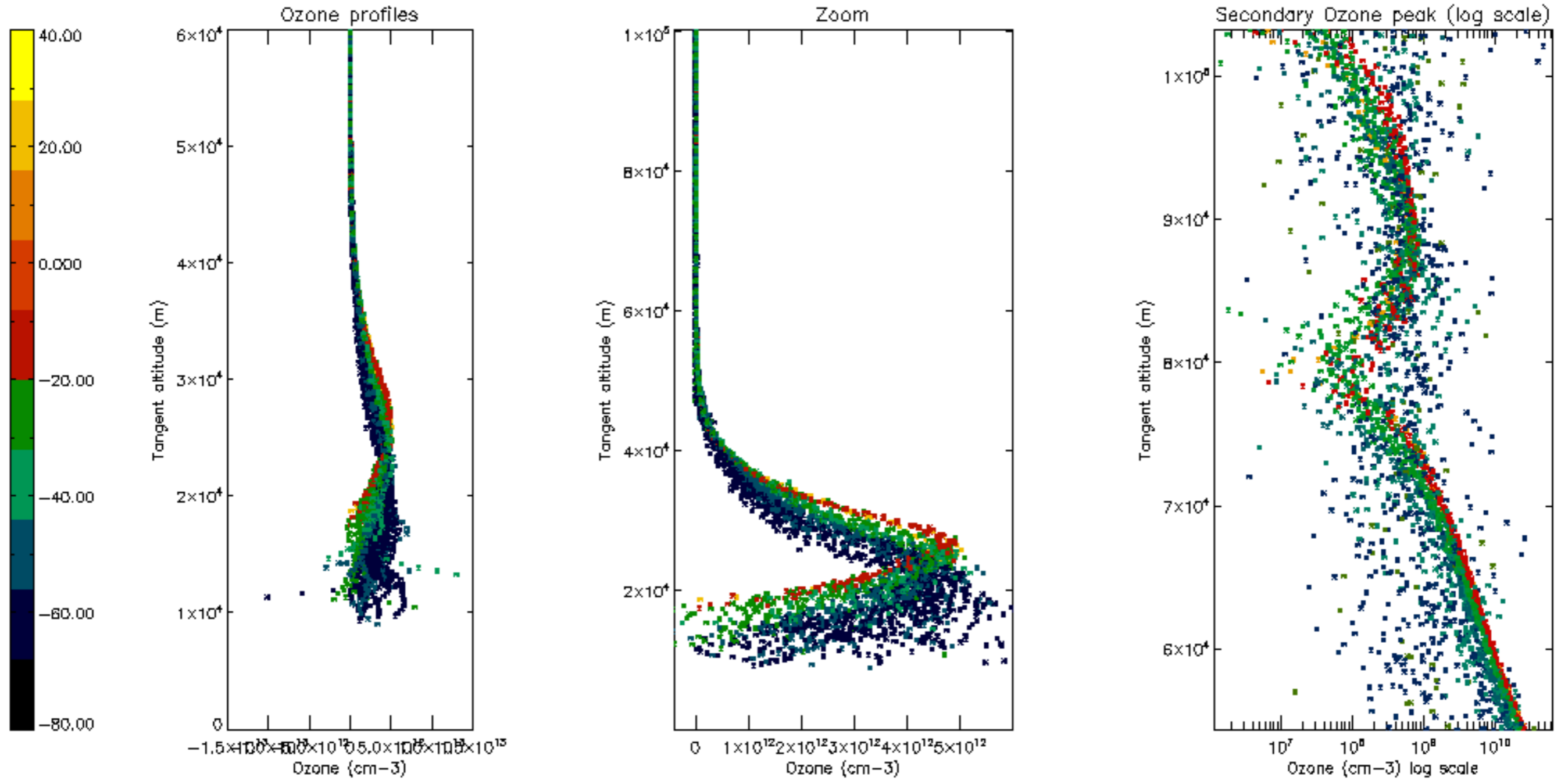


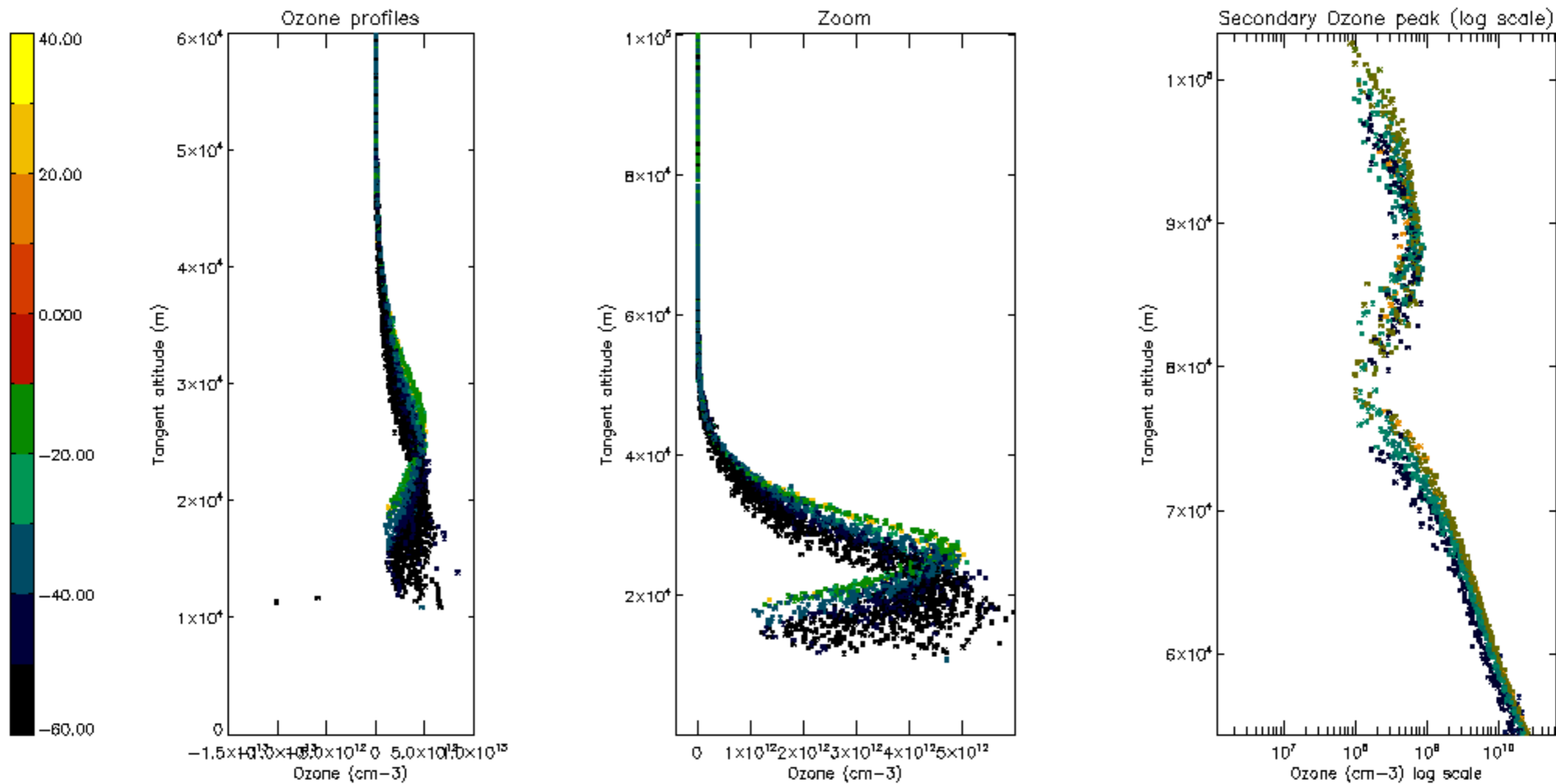
Percentage of star falling outside central band per profile

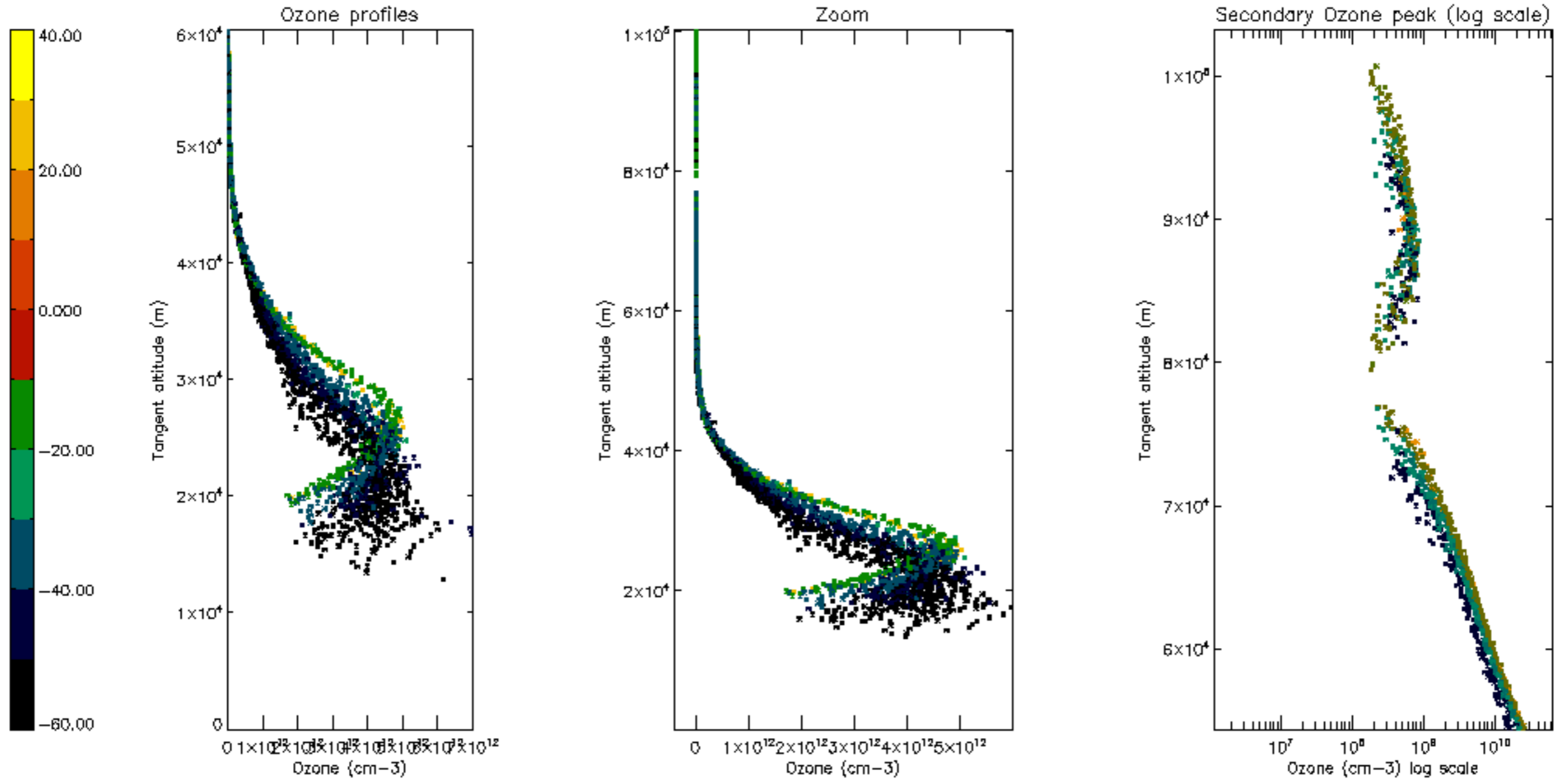


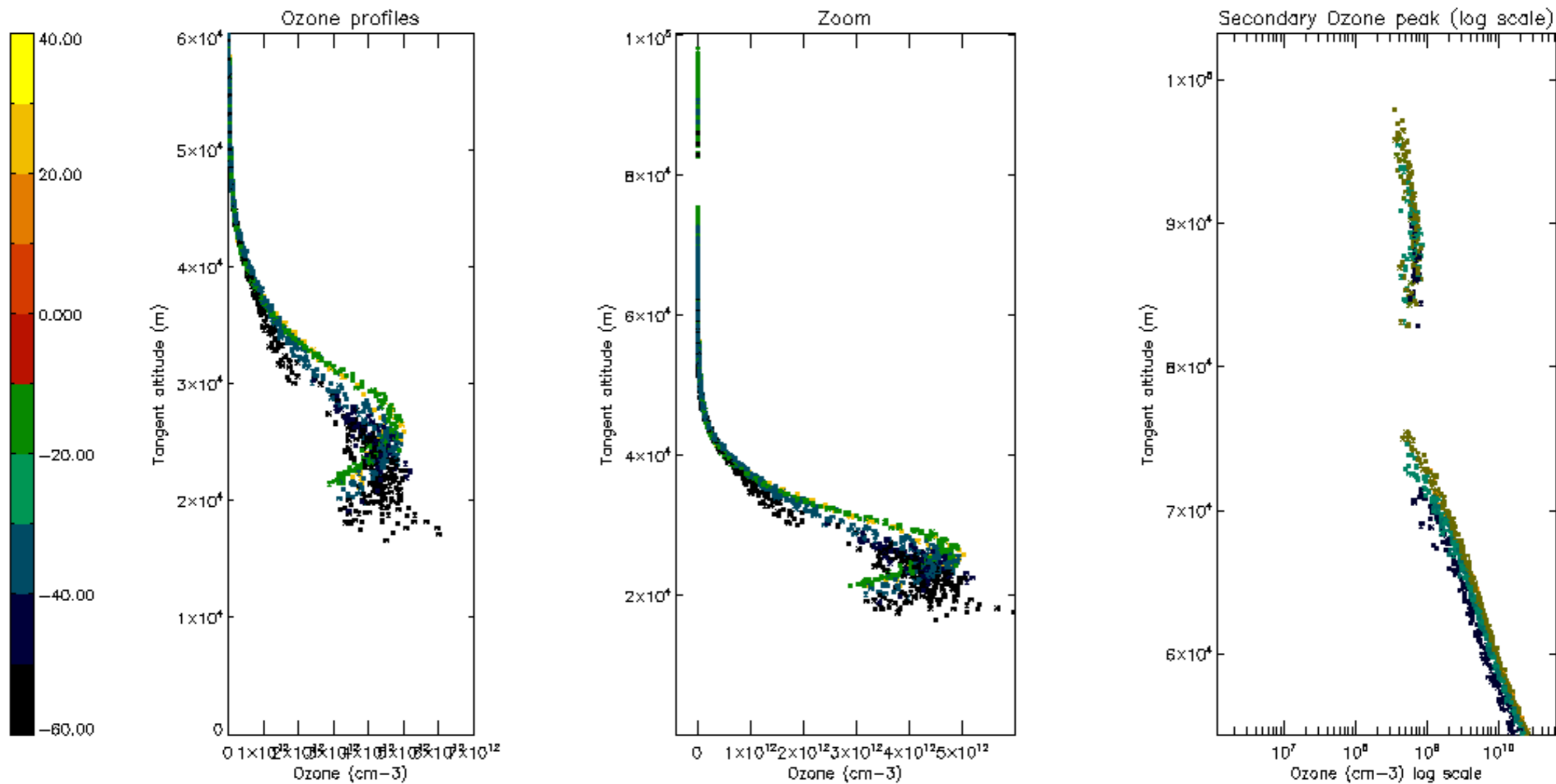
Percentage of saturation errors per profile

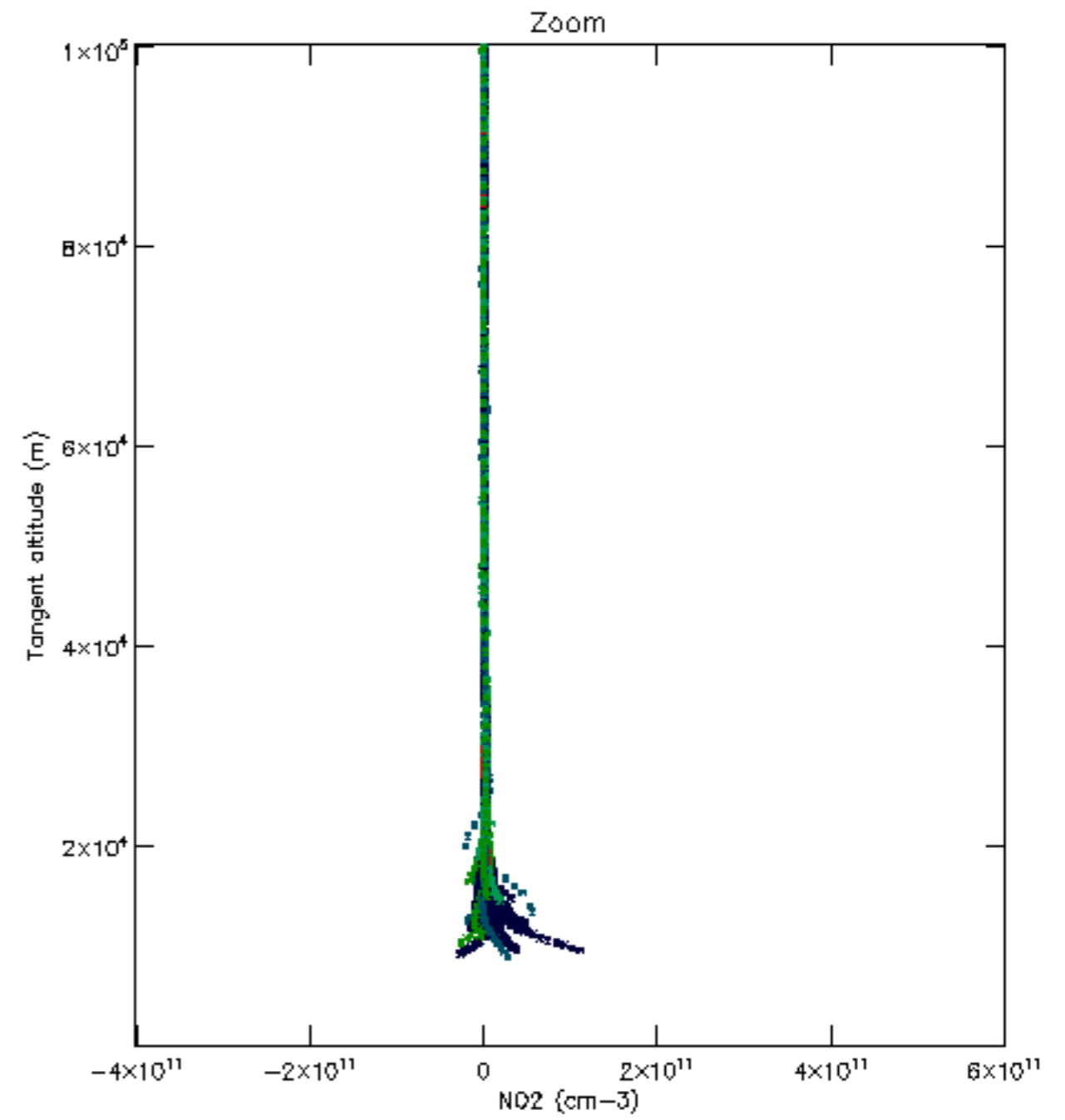
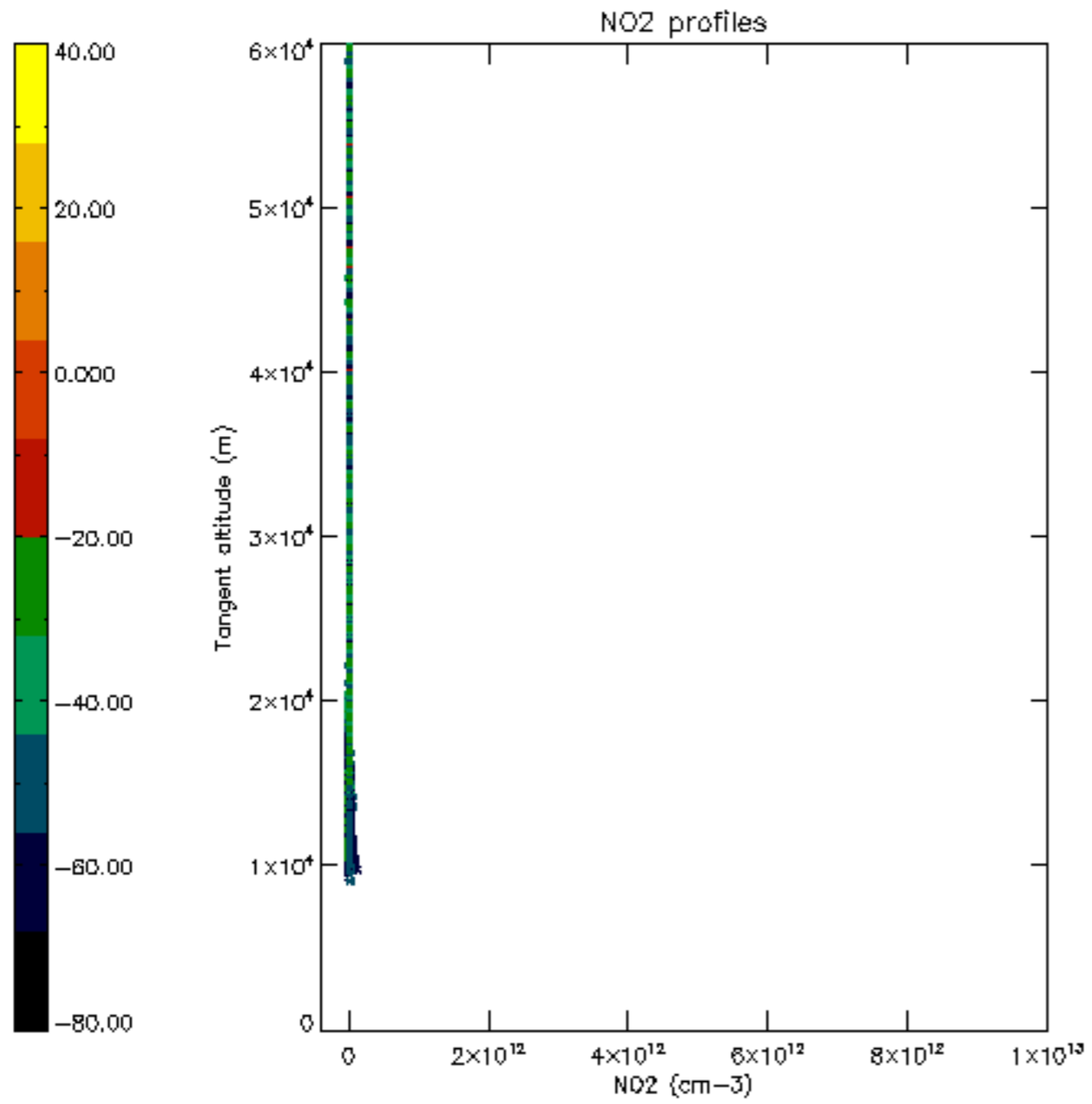


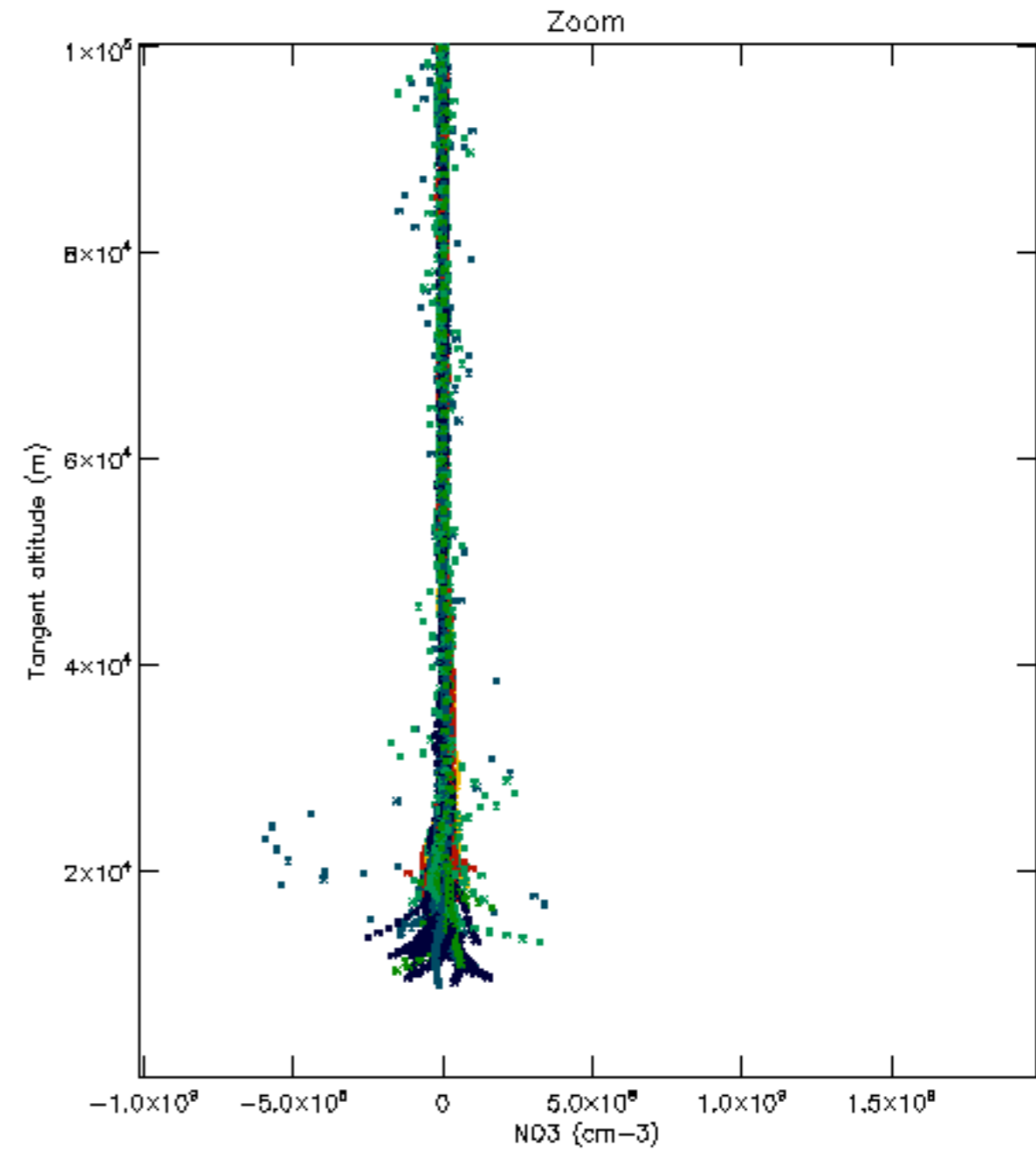
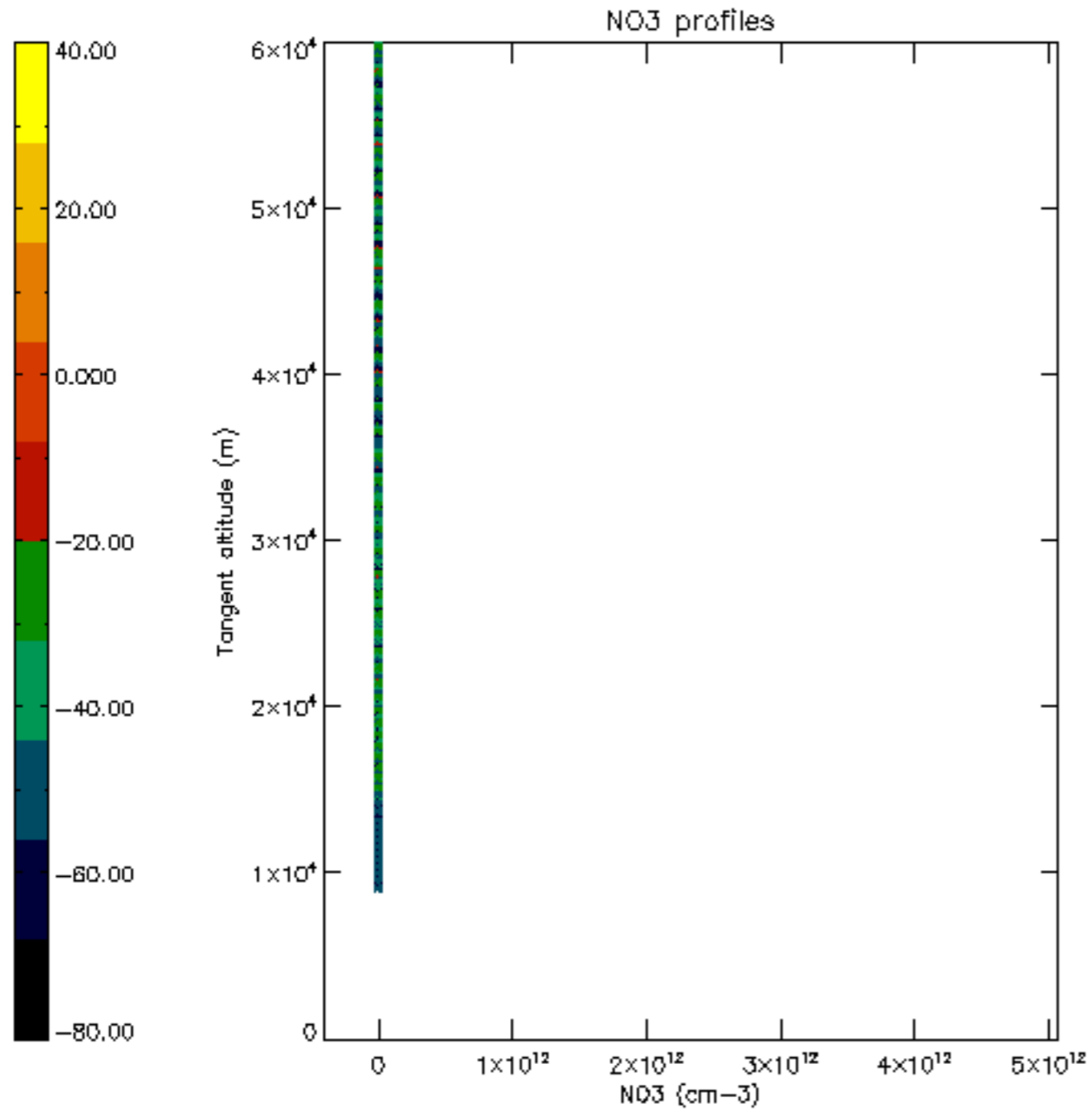


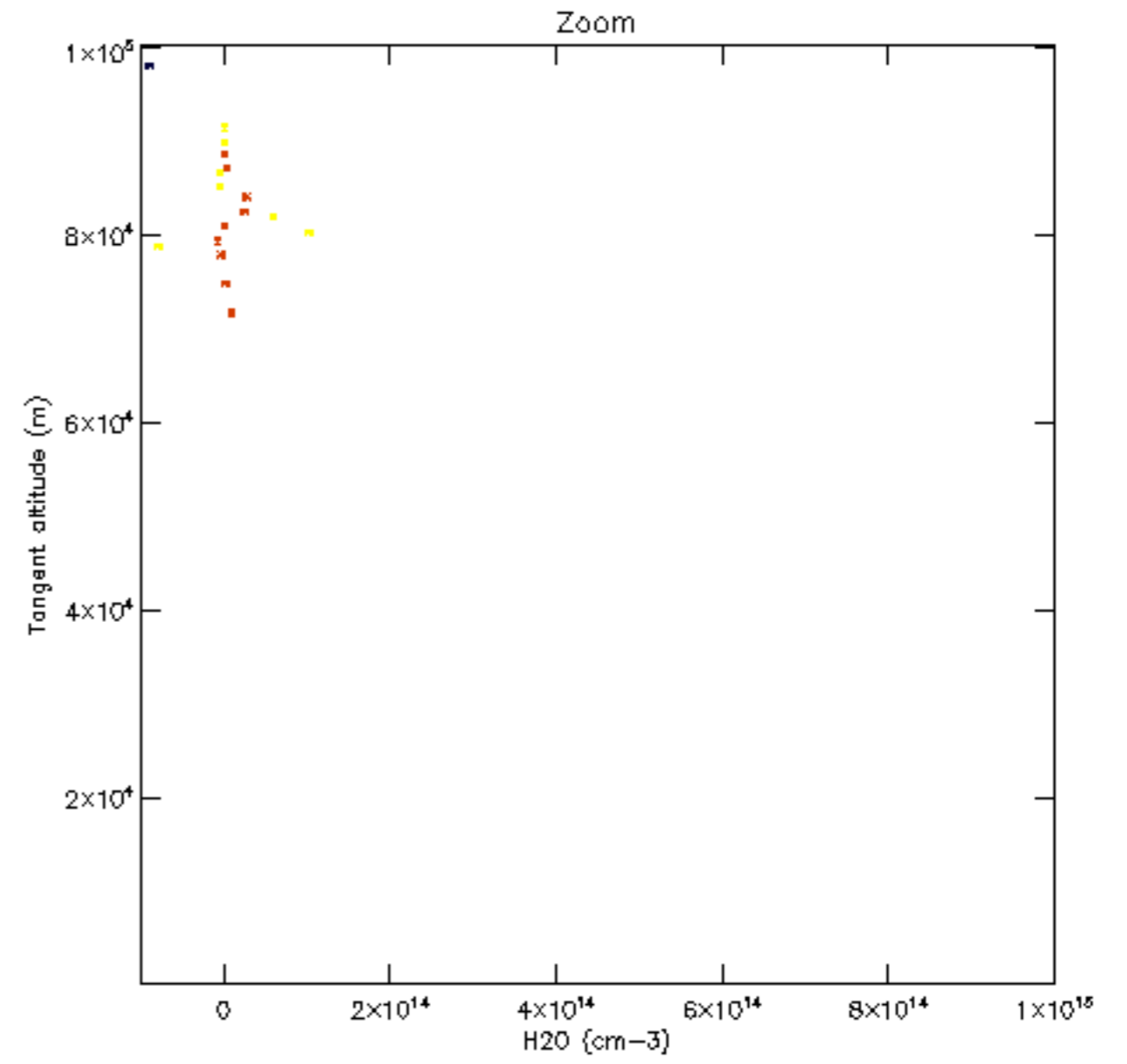
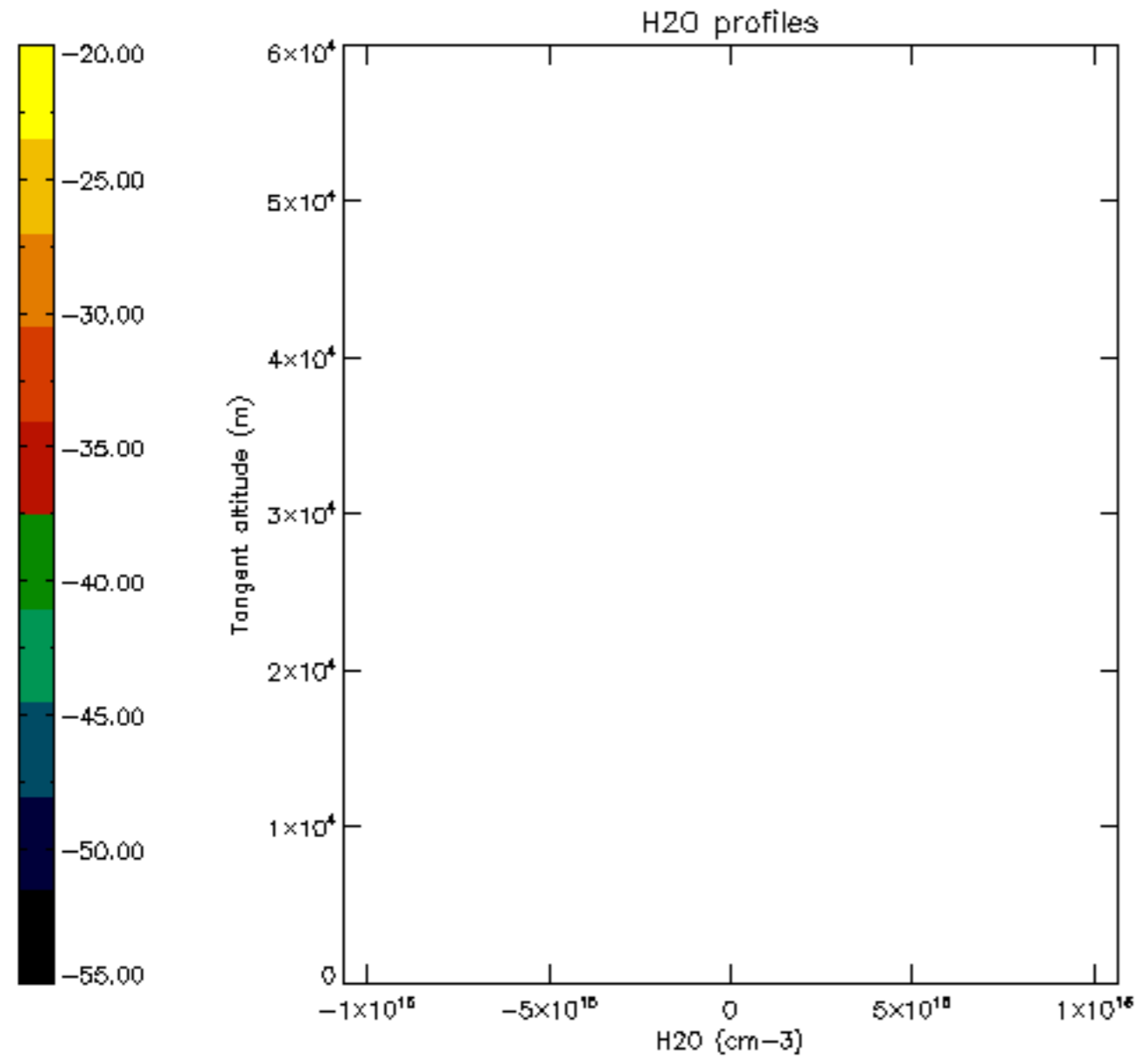


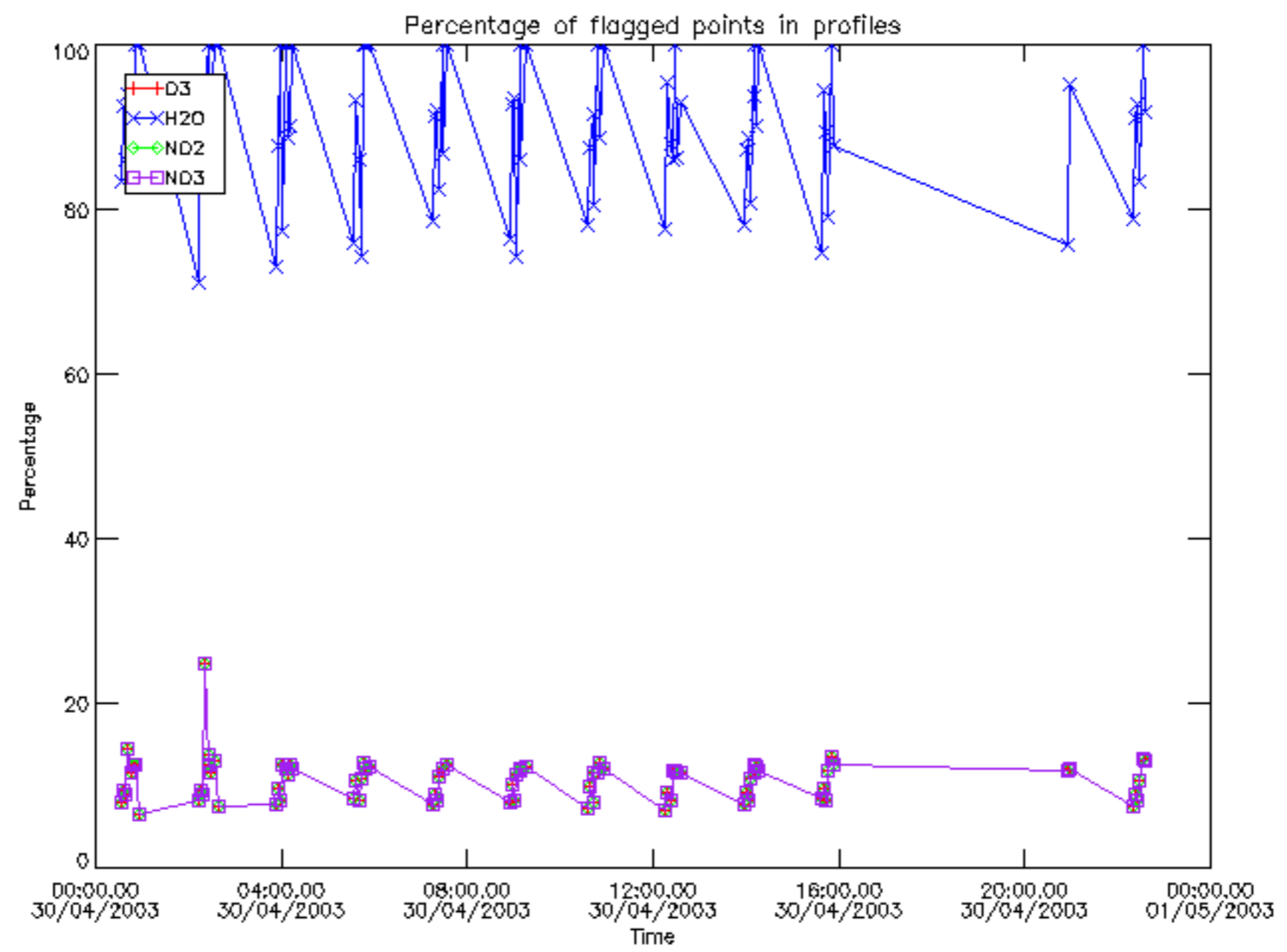




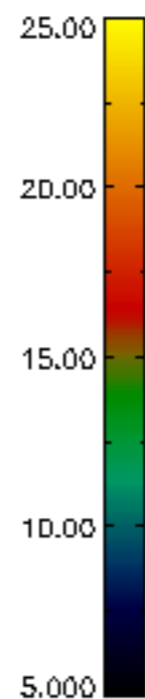
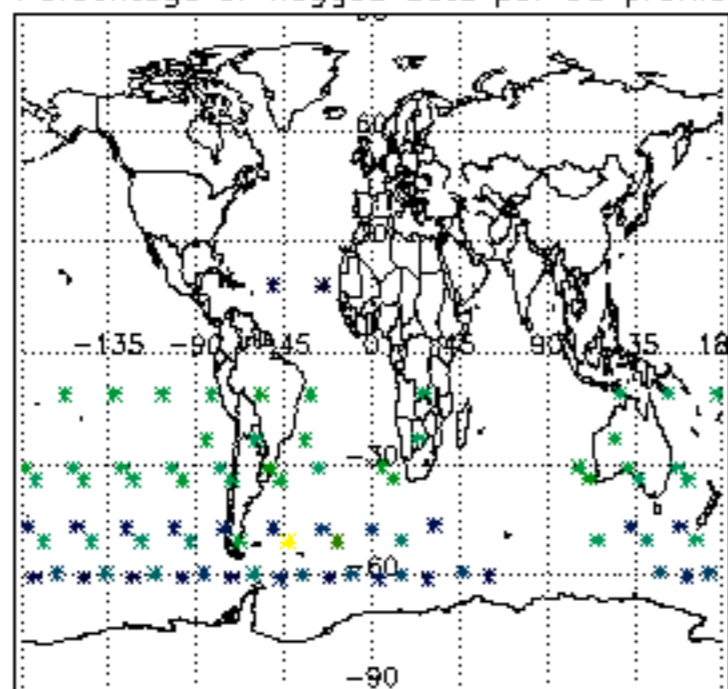




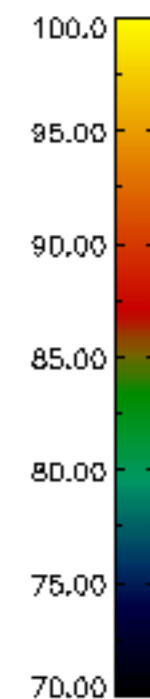
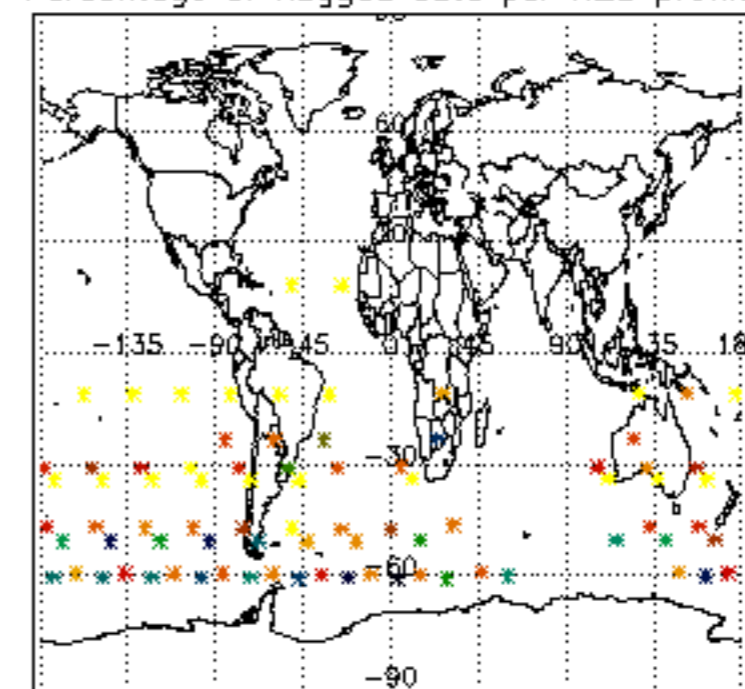




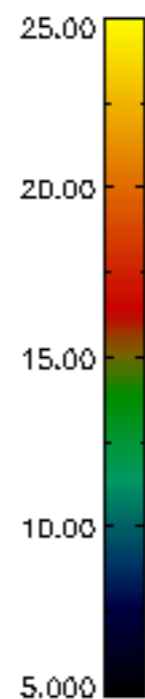
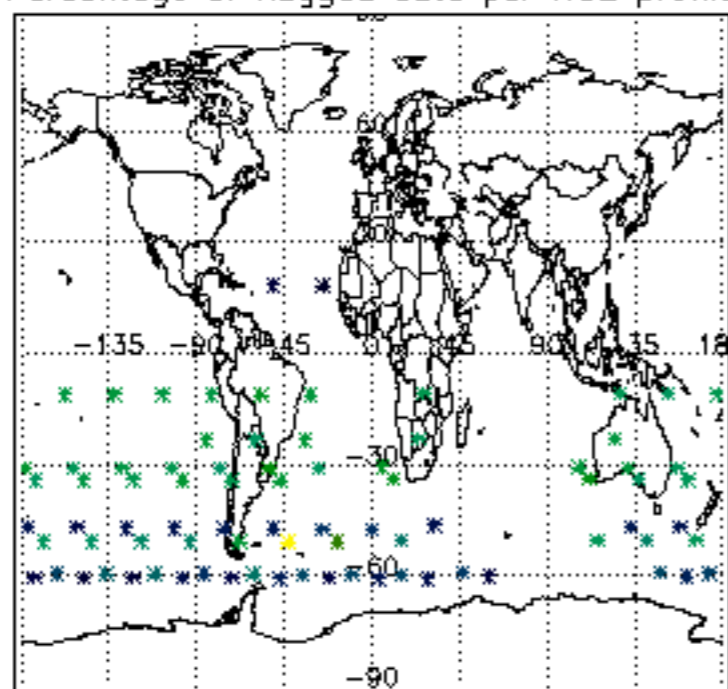
Percentage of flagged data per D3 profile



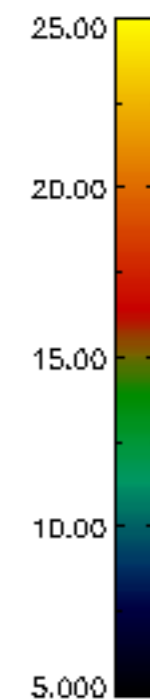
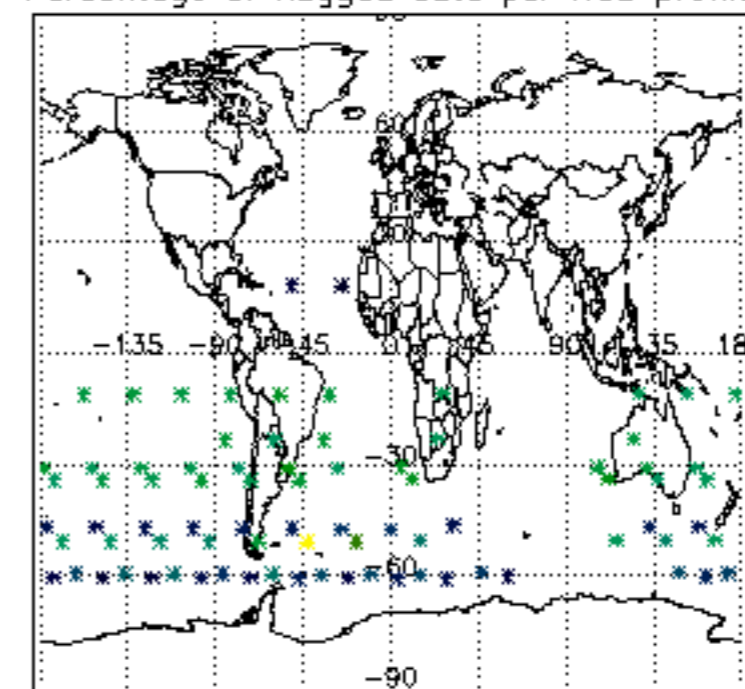
Percentage of flagged data per H2O profile

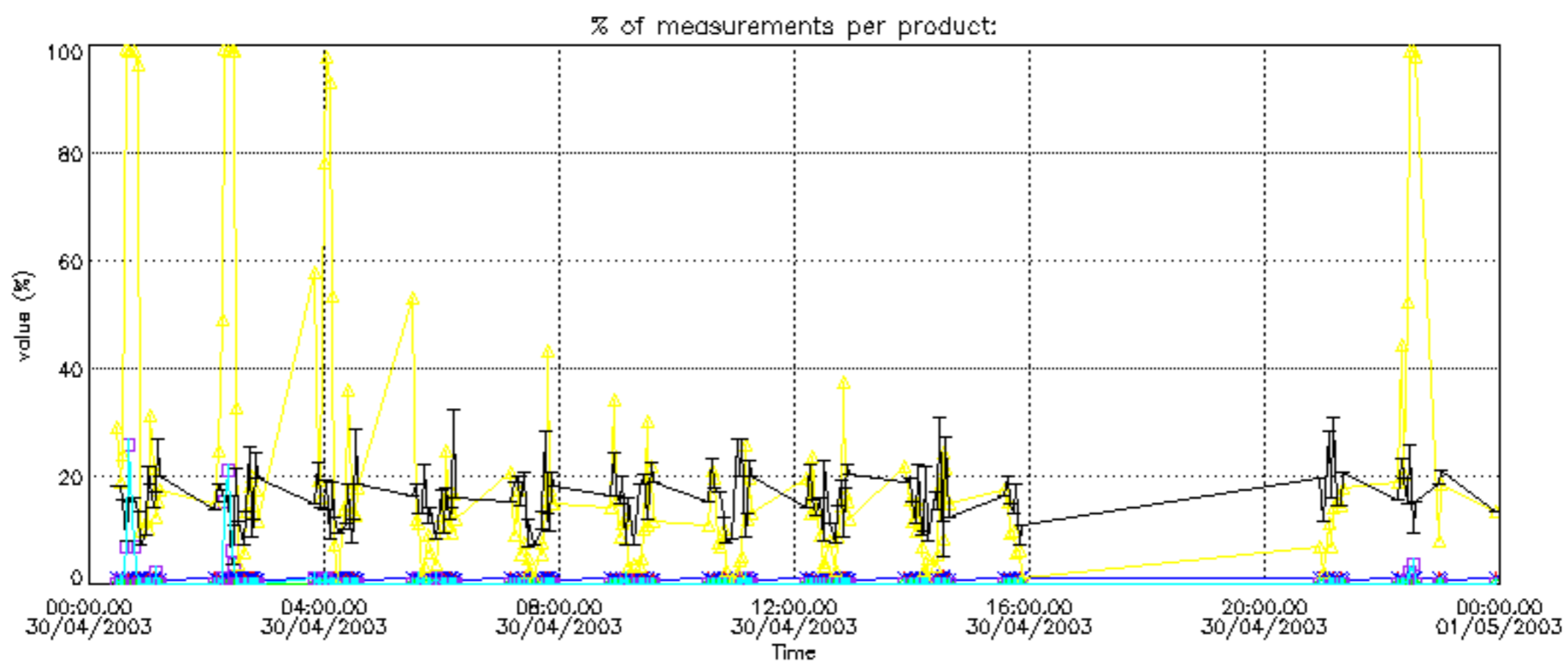


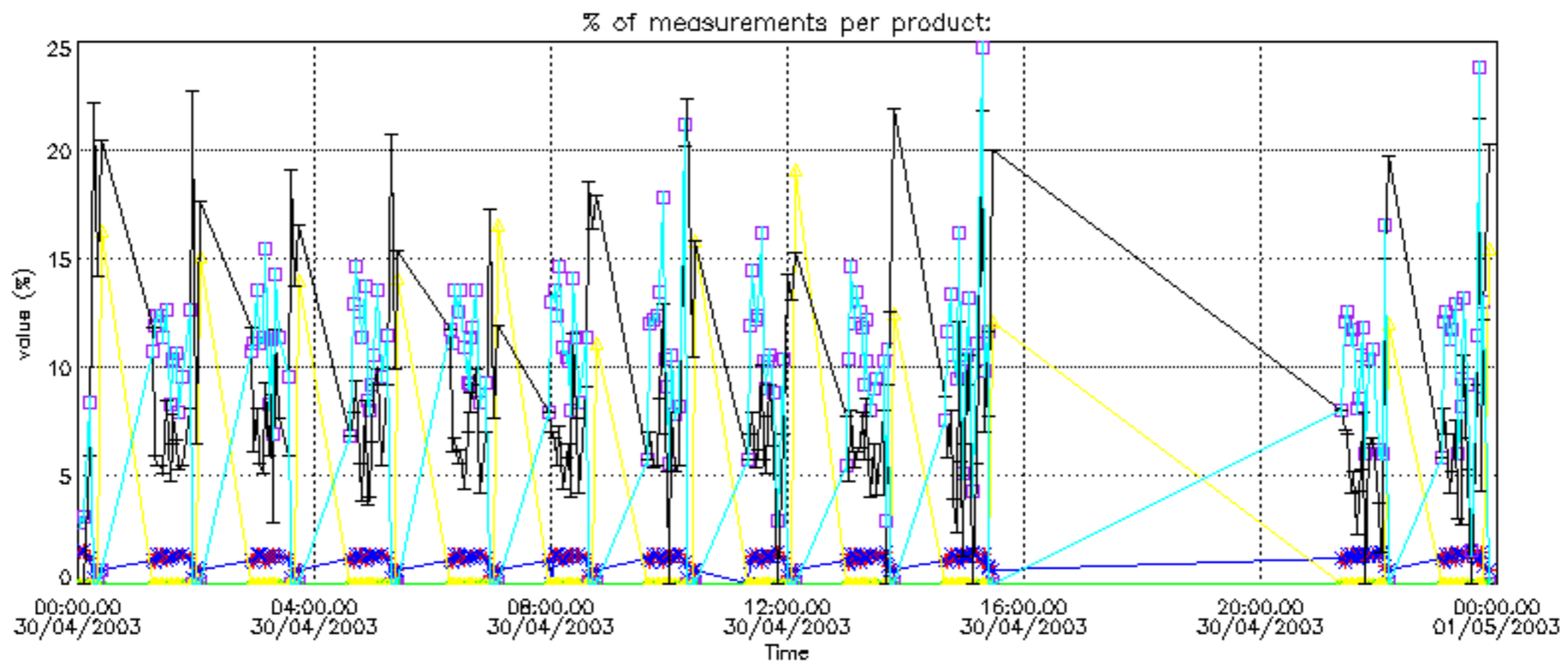
Percentage of flagged data per NO2 profile



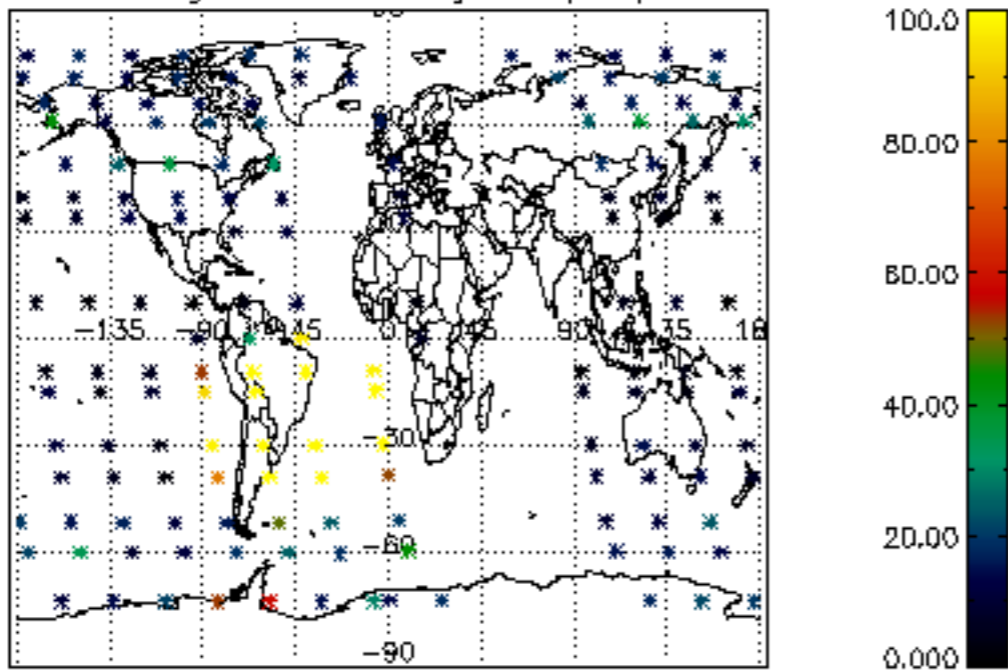
Percentage of flagged data per NO3 profile



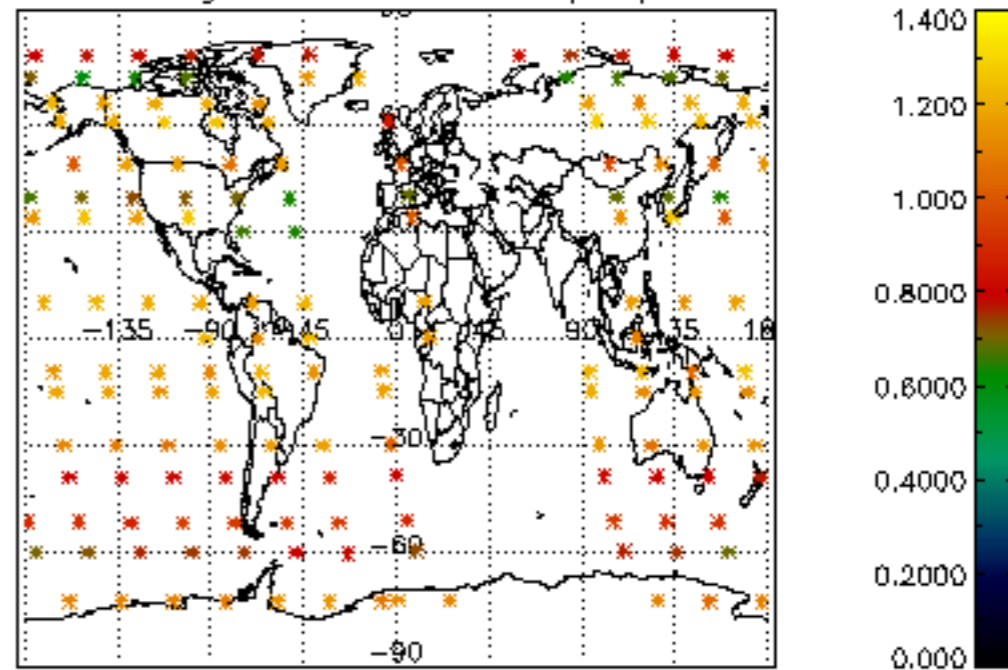




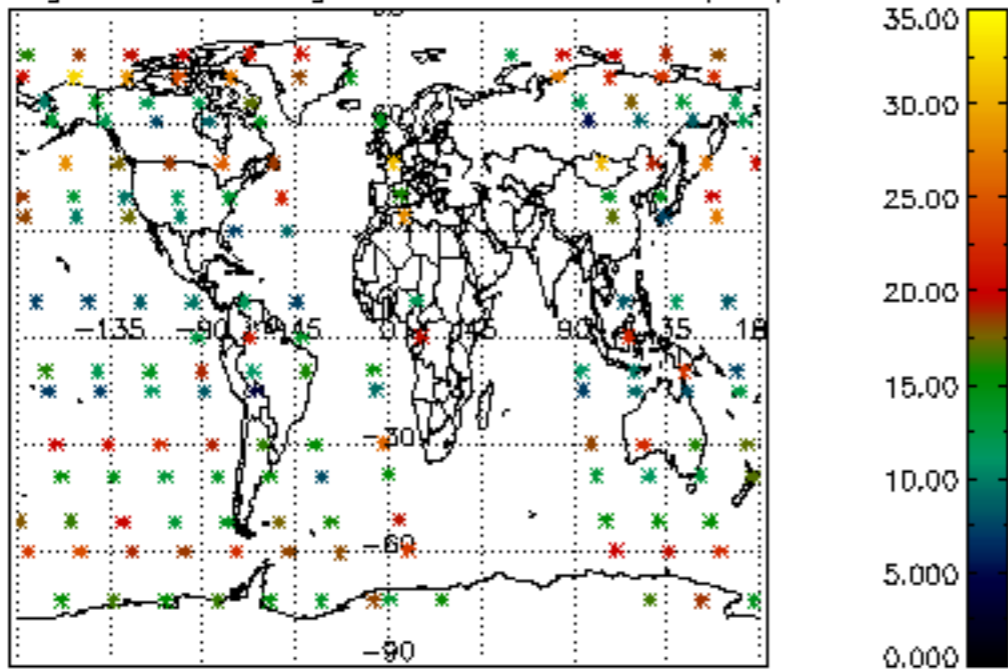
Percentage of cosmic ray hits per profile



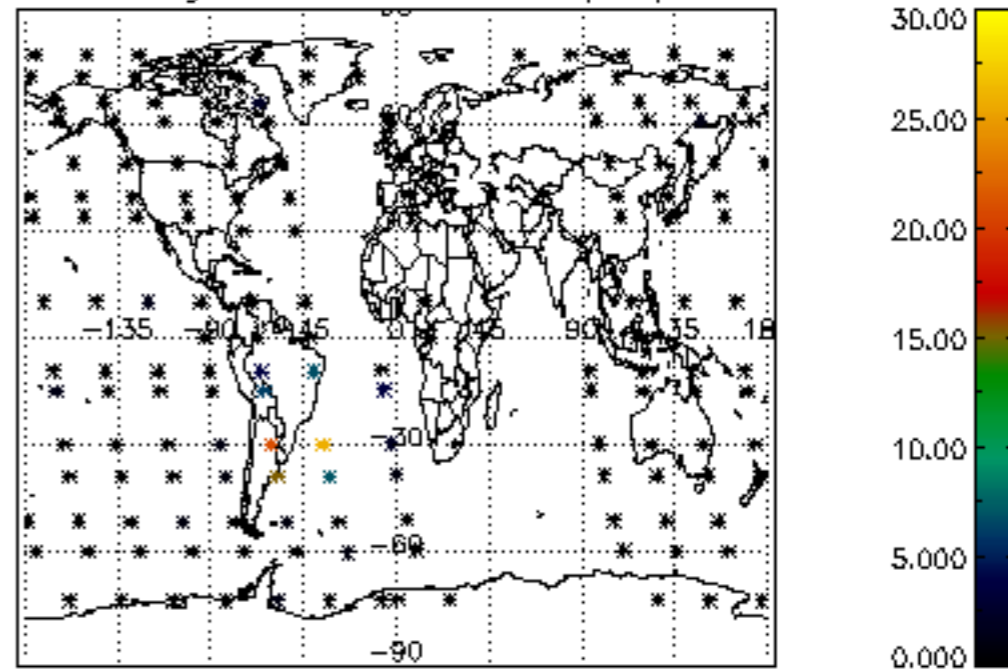
Percentage of datation errors per profile



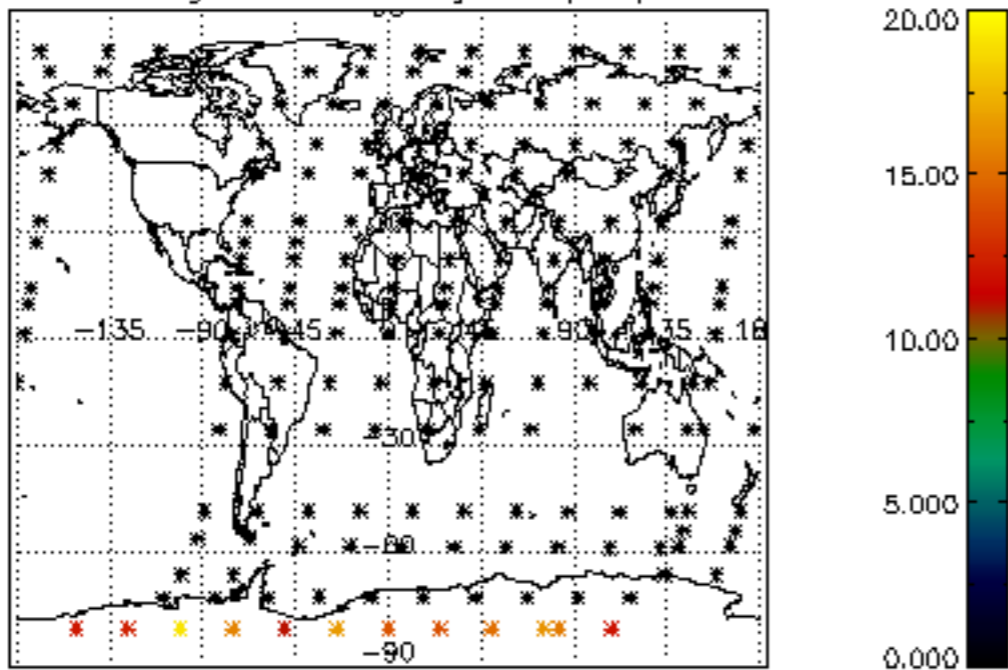
Percentage of star falling outside central band per profile



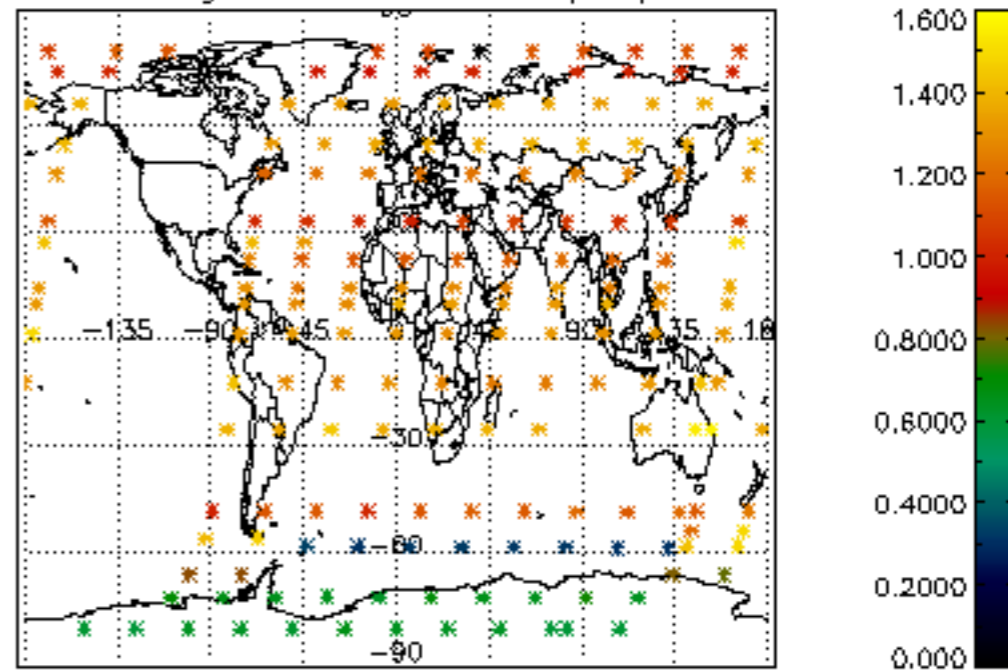
Percentage of saturation errors per profile



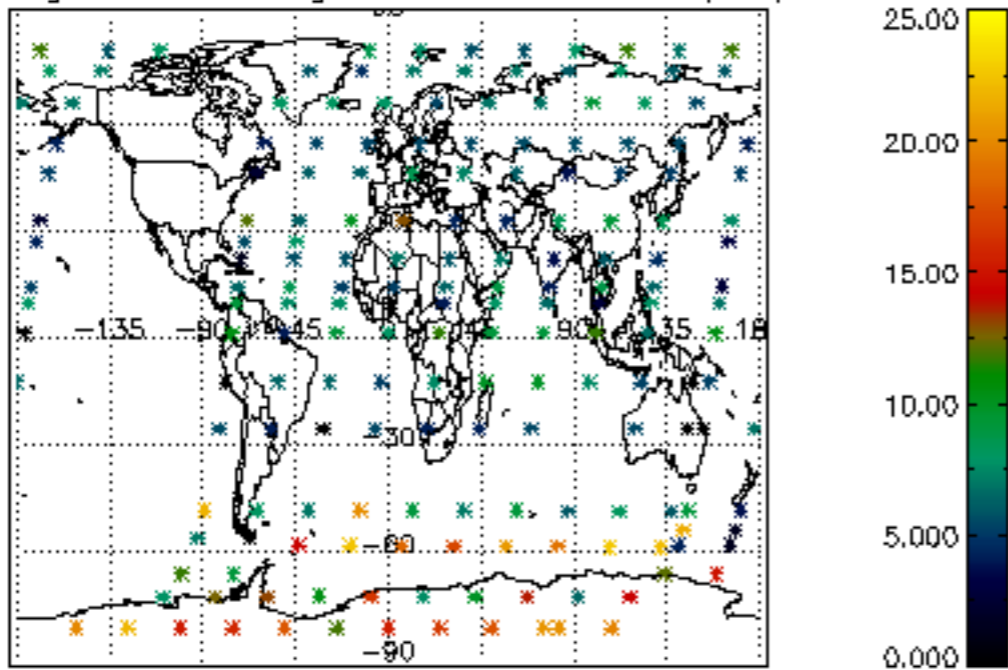
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

