

GOMOS Level 2 Daily Report

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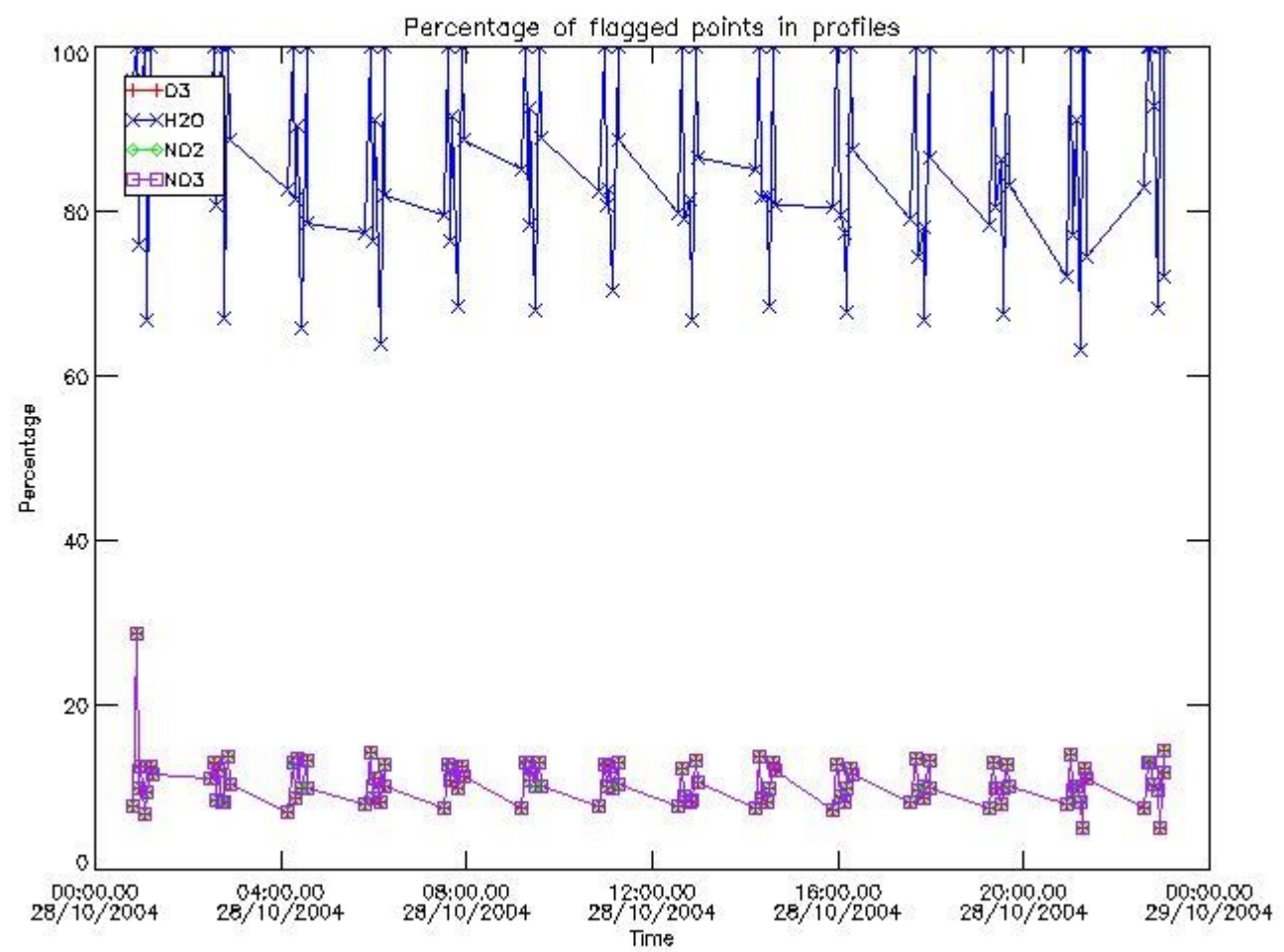
[6. Auxiliary Data Files used for the production reported in section 2](#)

338	GOM_NL__2PRFIN20041028_221019_000000432031_00344_13925_5571.N1	28-OCT-2004 22:10:19	Bright	42.500	36	50Alp UMa	1.8000	6300.0	85	13925	No
339	GOM_NL__2PRFIN20041028_221147_000000392031_00344_13925_5572.N1	28-OCT-2004 22:11:47	Bright	38.500	32	77Eps UMa	1.7630	11000.	77	13925	No
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342	GOM_NL__2PRFIN20041028_222649_000002552031_00344_13925_5575.N1	28-OCT-2004 22:26:49	Straylight	254.50	17	78Bet Gem	1.1610	4500.0	509	13925	No
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347	GOM_NL__2PRFIN20041028_225353_000000532031_00345_13926_5553.N1	28-OCT-2004 22:53:53	Dark	52.500	2	Alp Car	-0.73600	7000.0	105	13926	No
348	GOM_NL__2PRFIN20041028_225538_000001002031_00345_13926_5554.N1	28-OCT-2004 22:55:38	Dark	99.500	179	24Omi2CMa	3.0320	24000.	199	13926	No
349	GOM_NL__2PRFIN20041028_225952_000000392031_00345_13926_5555.N1	28-OCT-2004 22:59:52	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	13926	No
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356	GOM_NL__2PRFIN20041028_232341_000000412031_00345_13926_5562.N1	28-OCT-2004 23:23:41	Bright	40.500	105	6Bet Ari	2.6450	8900.0	81	13926	No
357	GOM_NL__2PRFIN20041028_232556_000000412031_00345_13926_5563.N1	28-OCT-2004 23:25:56	Bright	41.000	58	21Alp And	2.0730	11000.	82	13926	No
358	GOM_NL__2PRFIN20041028_232737_000000402031_00345_13926_5564.N1	28-OCT-2004 23:27:37	Bright	40.000	53	43Bet And	2.0480	3300.0	80	13926	No
359	GOM_NL__2PRFIN20041028_233013_000000452031_00345_13926_5565.N1	28-OCT-2004 23:30:13	Bright	44.500	73	57Gam1And	2.2600	13100.	89	13926	No
360	GOM_NL__2PRFIN20041028_233149_000000482031_00345_13926_5566.N1	28-OCT-2004 23:31:49	Bright	48.000	79	26Bet Per	2.3100	13100.	96	13926	No
361	GOM_NL__2PRFIN20041028_233414_000000382031_00345_13926_5567.N1	28-OCT-2004 23:34:14	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	13926	No
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363	GOM_NL__2PRFIN20041028_234242_000000412031_00345_13926_5569.N1	28-OCT-2004 23:42:42	Bright	41.000	49	1Alp UMi	1.9900	6300.0	82	13926	No
364	GOM_NL__2PRFIN20041028_234627_000000392031_00345_13926_5570.N1	28-OCT-2004 23:46:27	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	13926	No
365	GOM_NL__2PRFIN20041028_235055_000000422031_00345_13926_5571.N1	28-OCT-2004 23:50:55	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	13926	No
366	GOM_NL__2PRFIN20041028_235222_000000392031_00345_13926_5572.N1	28-OCT-2004 23:52:22	Bright	38.500	32	77Eps UMa	1.7630	11000.	77	13926	No
367	GOM_NL__2PRFIN20041028_235609_000000402031_00345_13926_5573.N1	28-OCT-2004 23:56:09	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	13926	No

3. Quality information per product

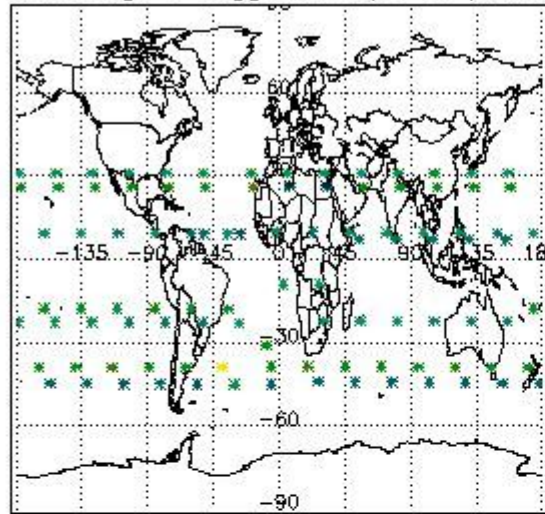
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

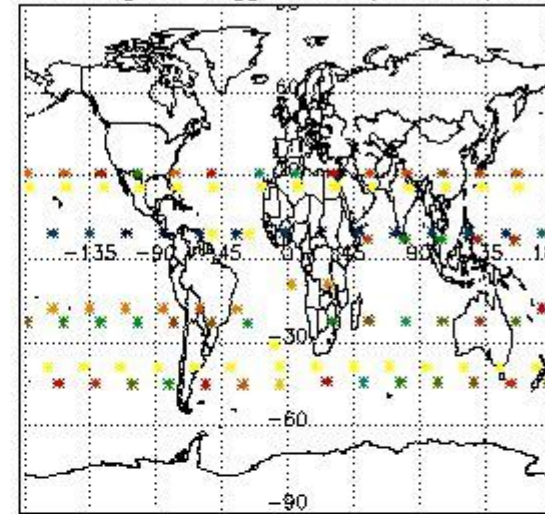


3.2 Plot quality information per product (world map)

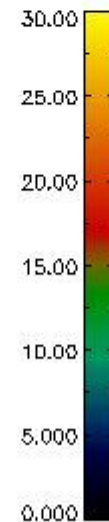
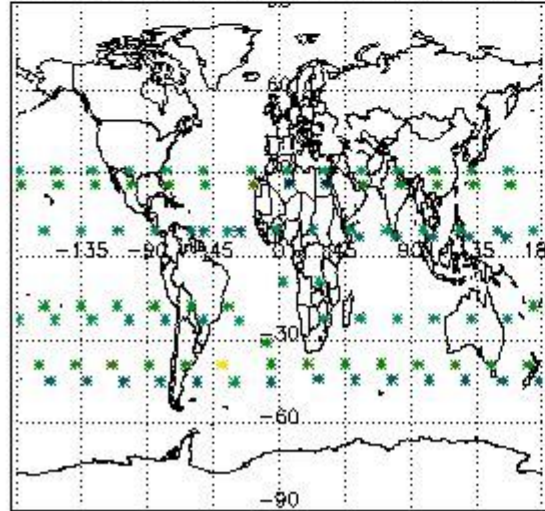
Percentage of flagged data per O3 profile



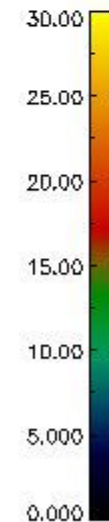
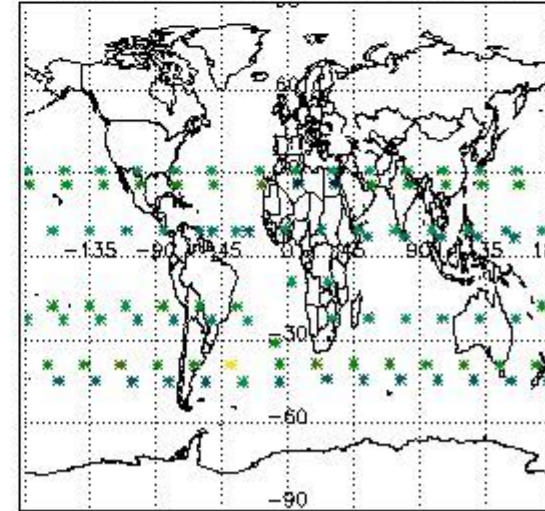
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

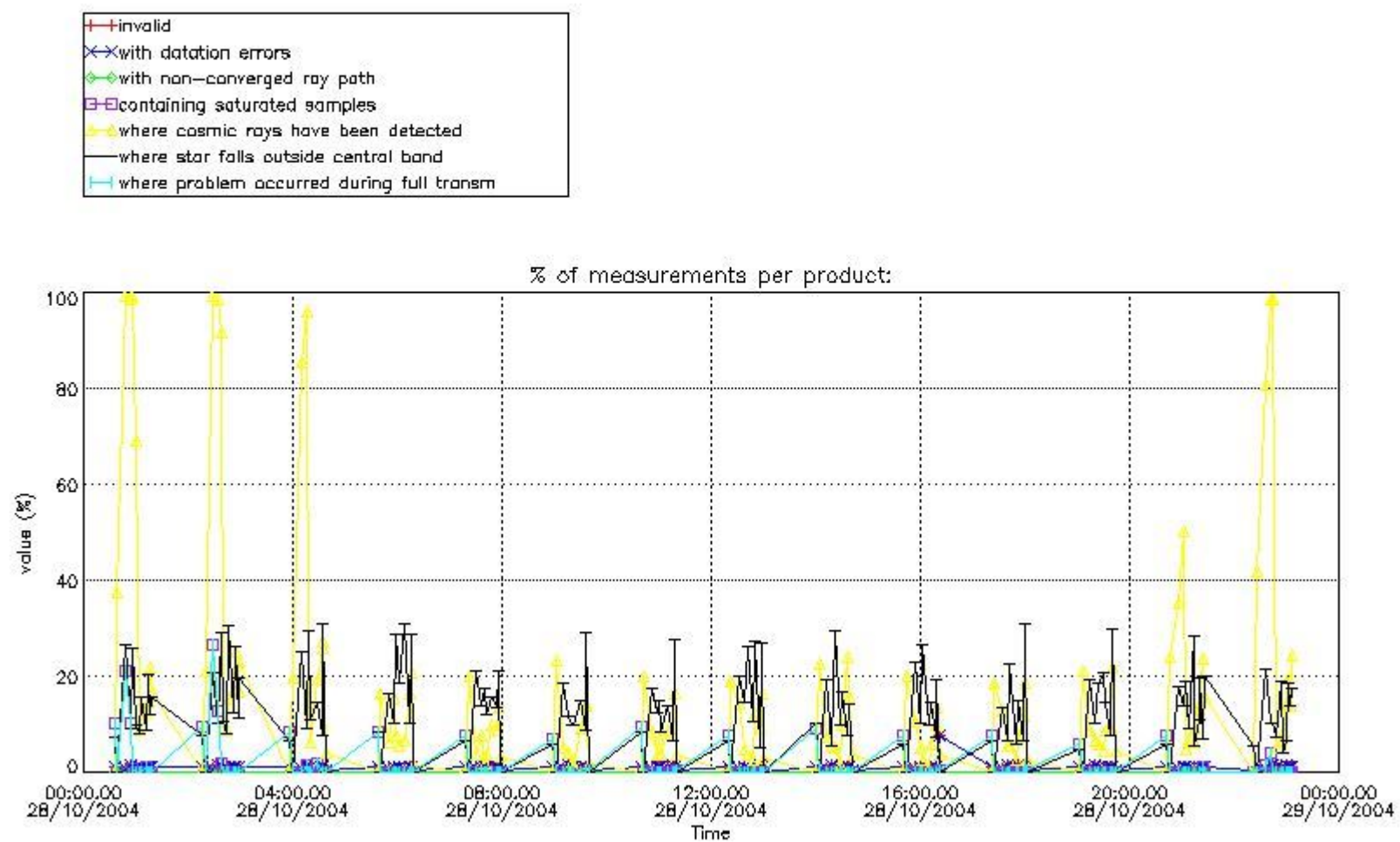


4. Level 1 quality information per product

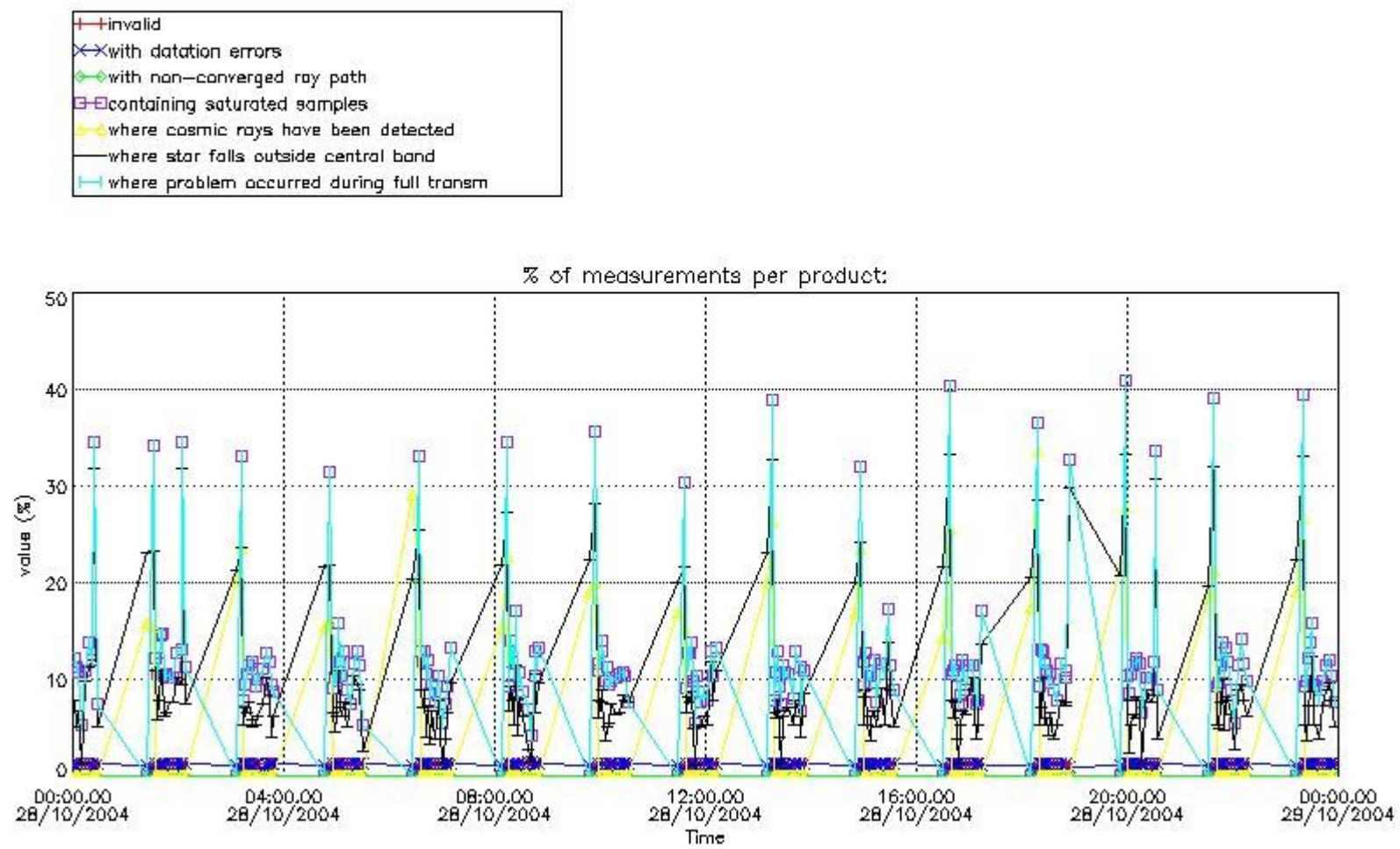
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



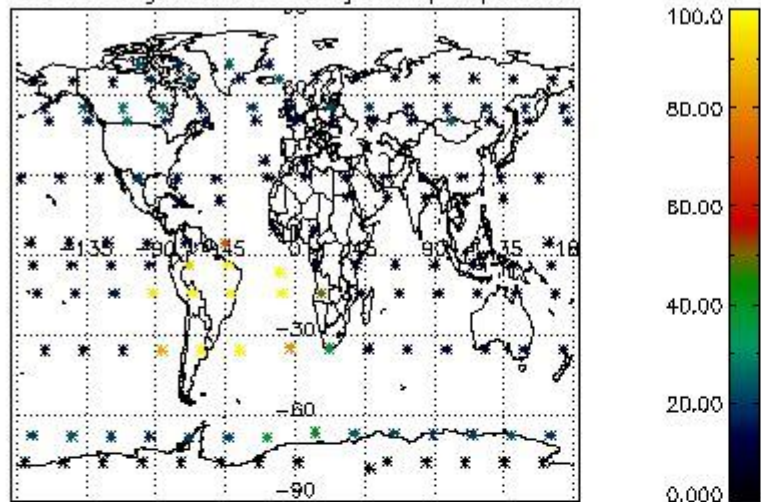
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



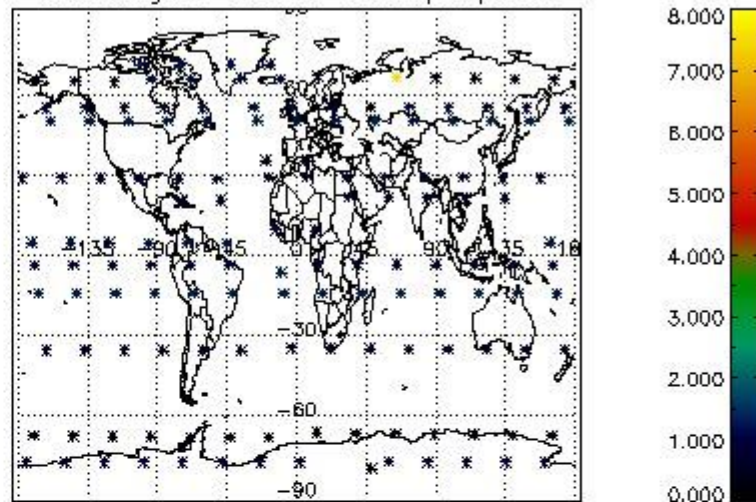
4.2 Plot quality information per product coming from level 1b processing (world map)

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

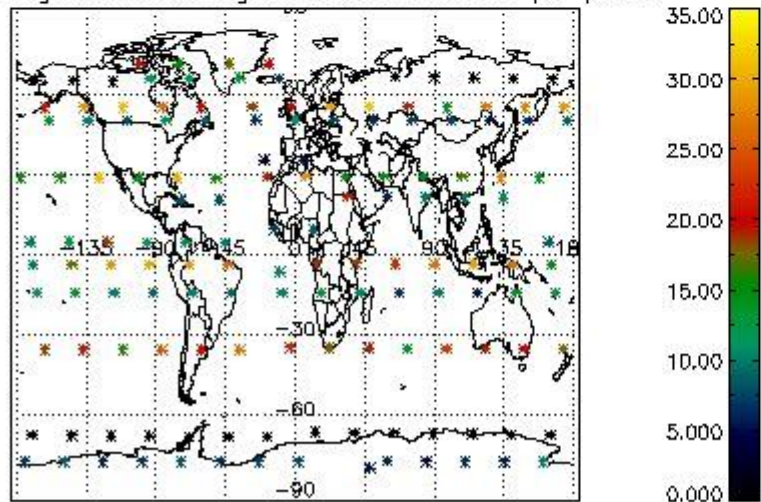
Percentage of cosmic ray hits per profile



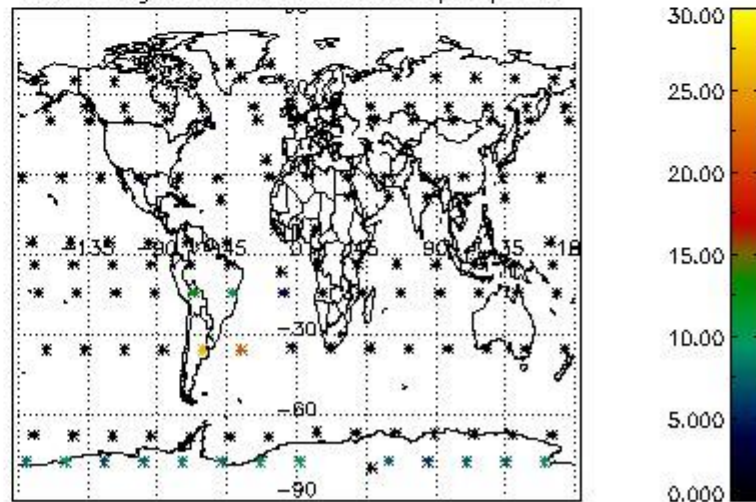
Percentage of datation errors per profile



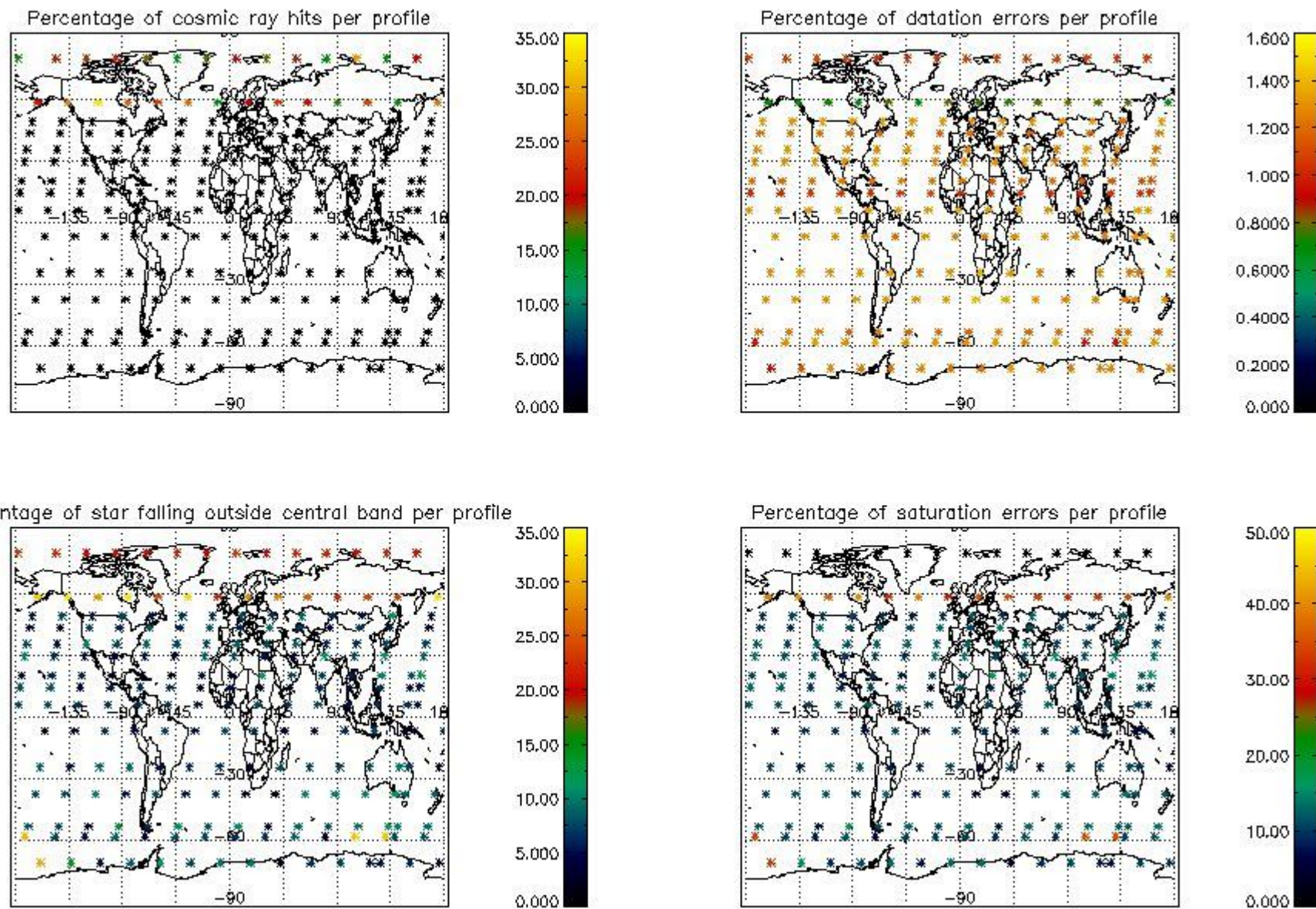
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

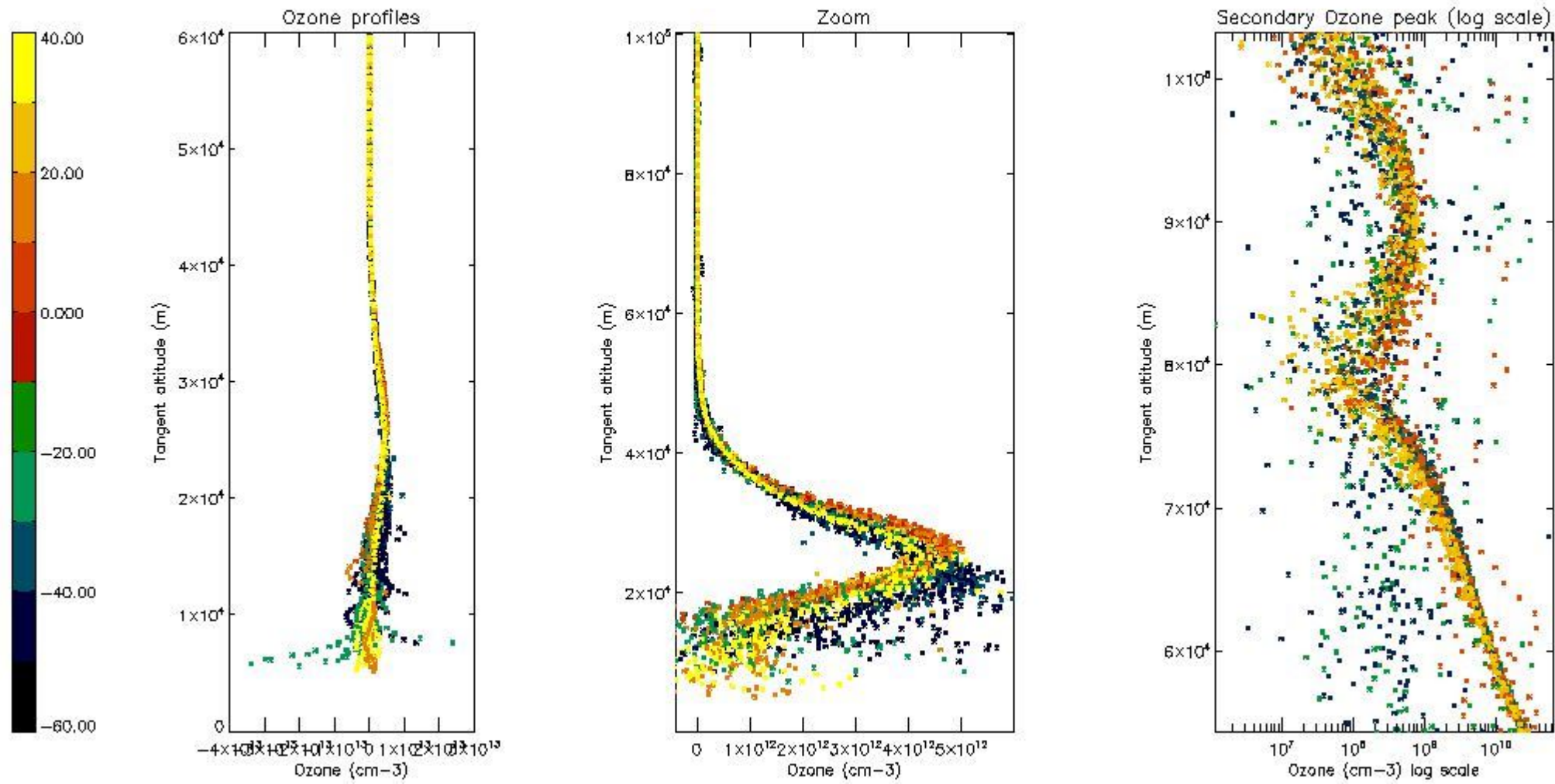
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	25
STD < 20	13

STD < 10	10
STD < 5	7

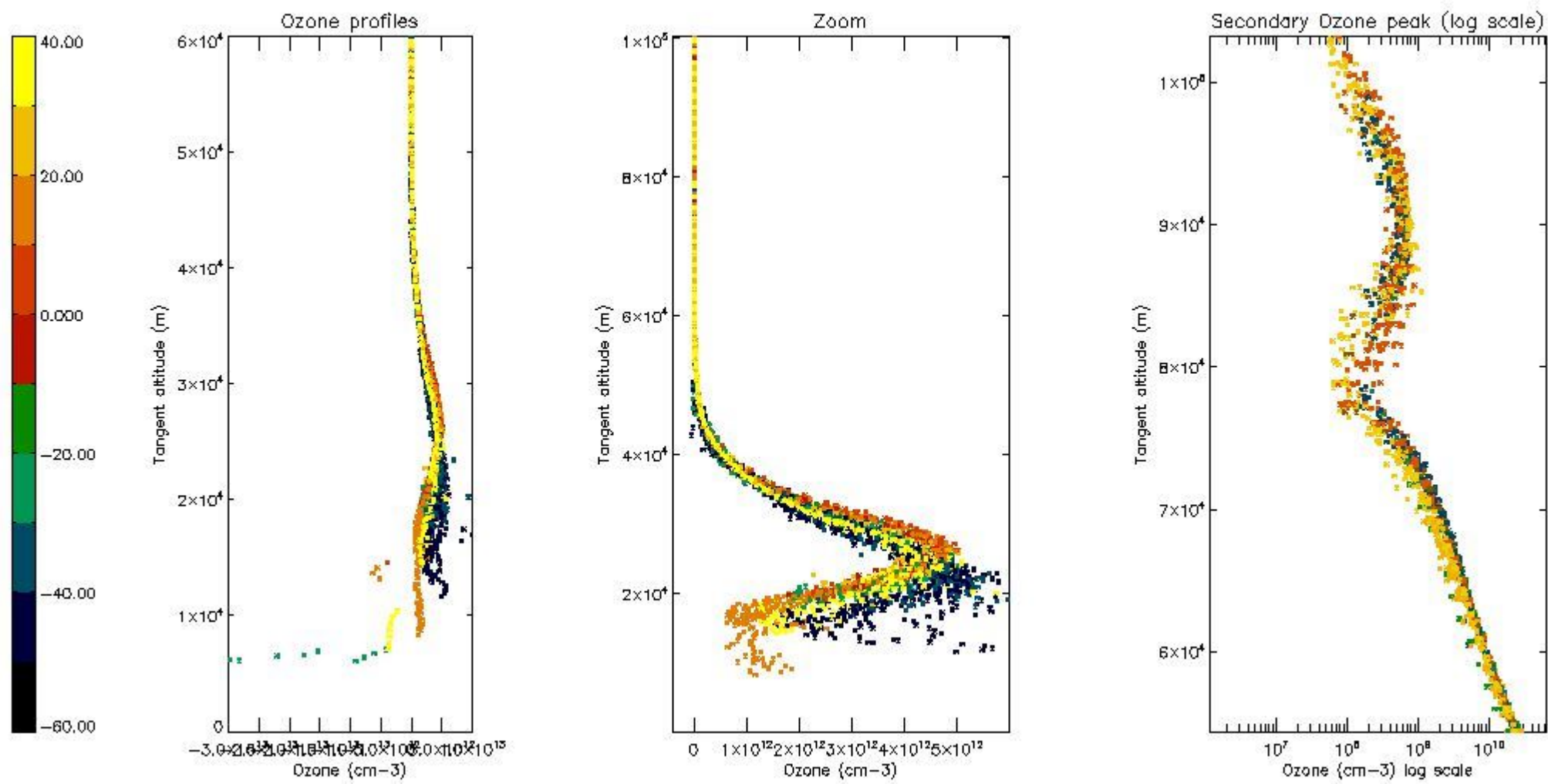
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



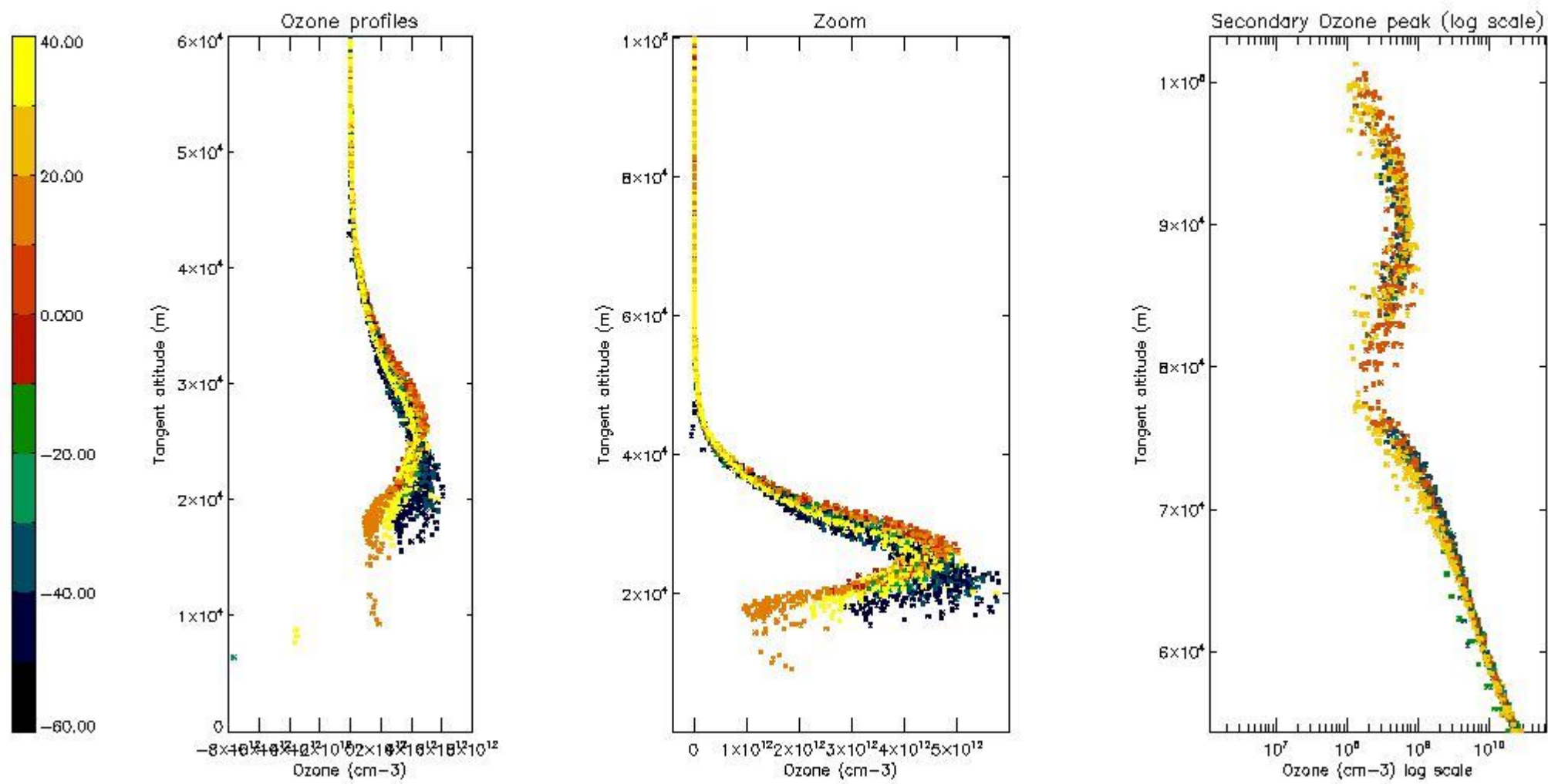
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



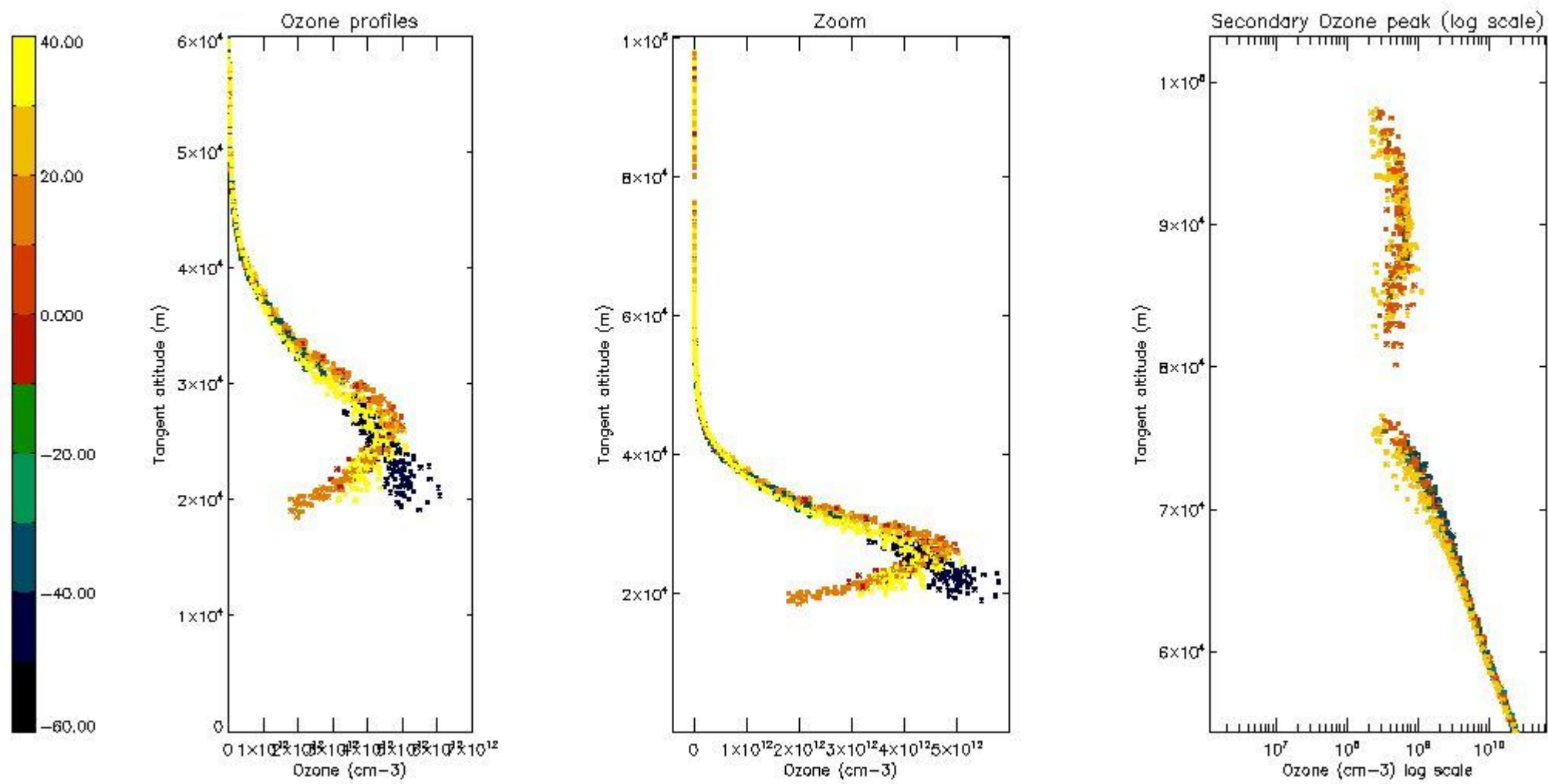
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



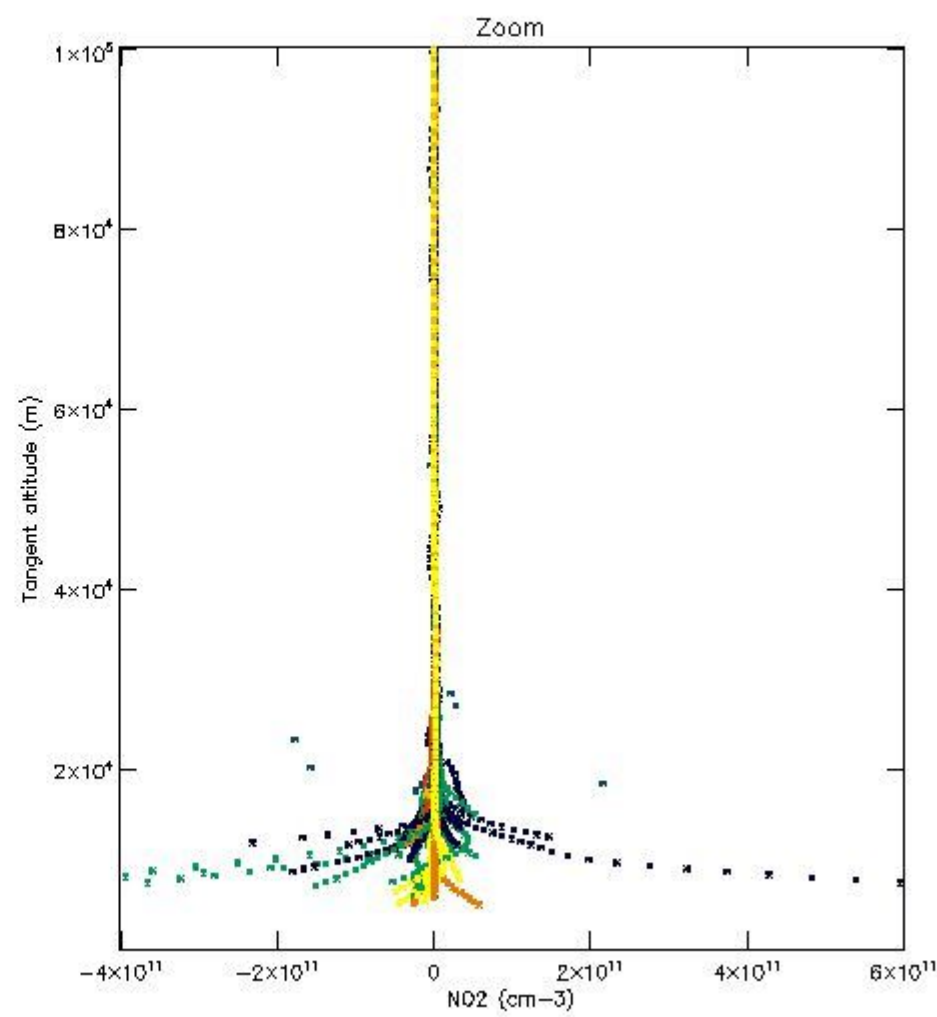
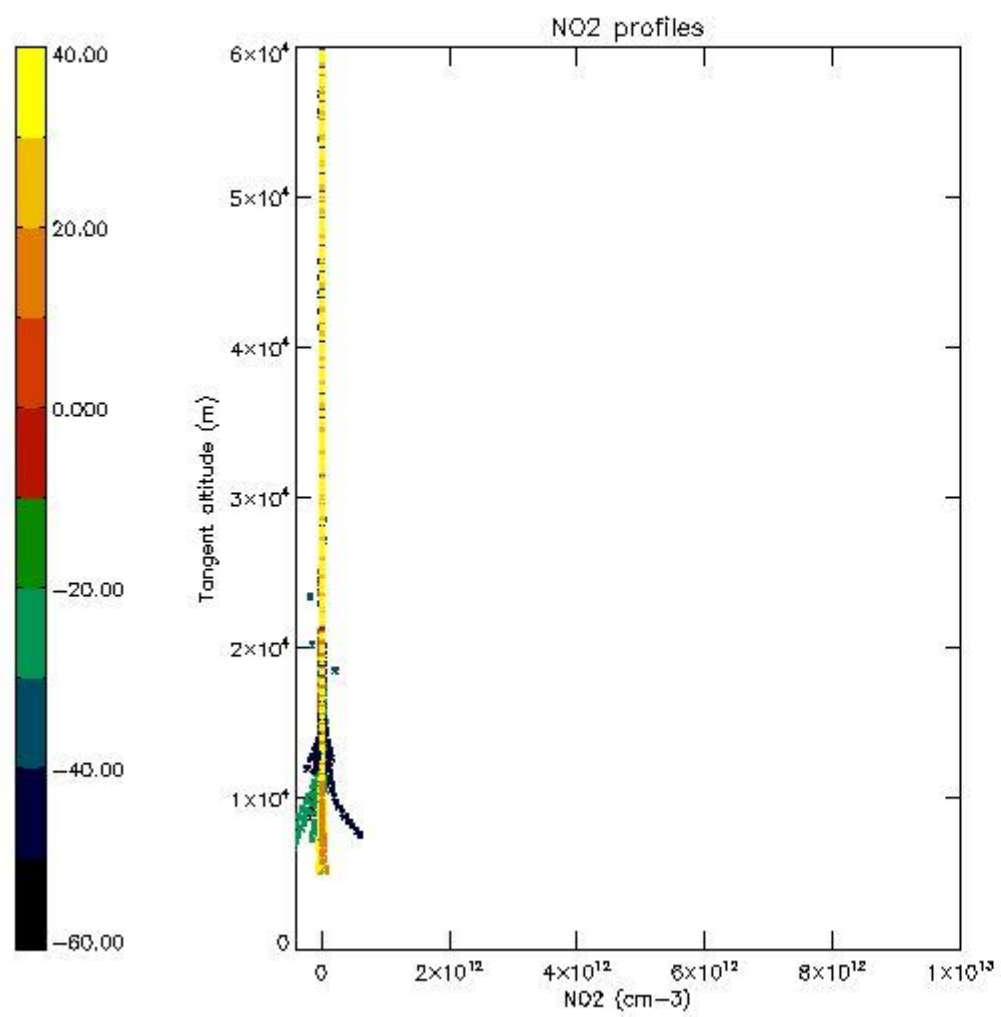
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



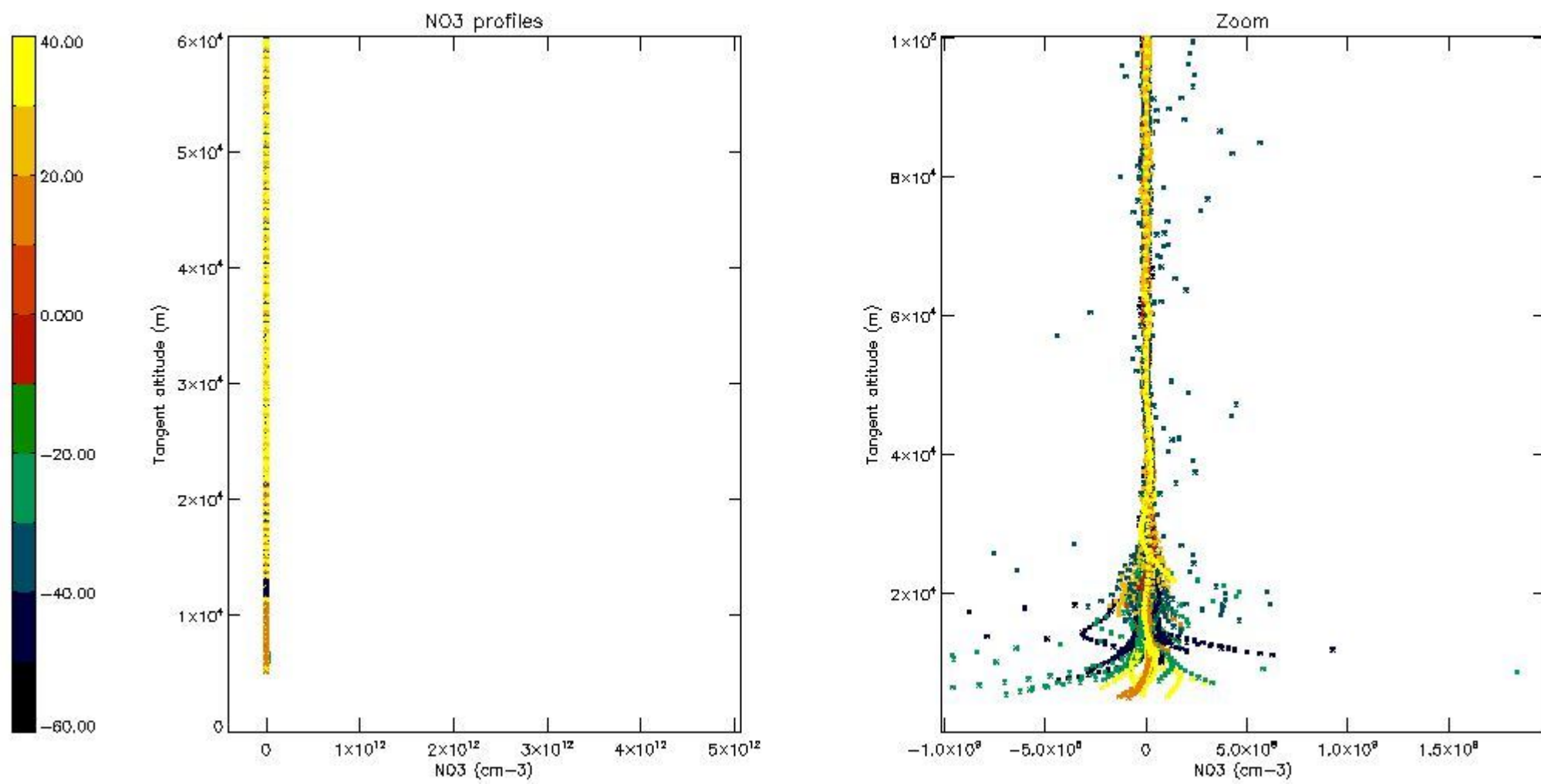
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



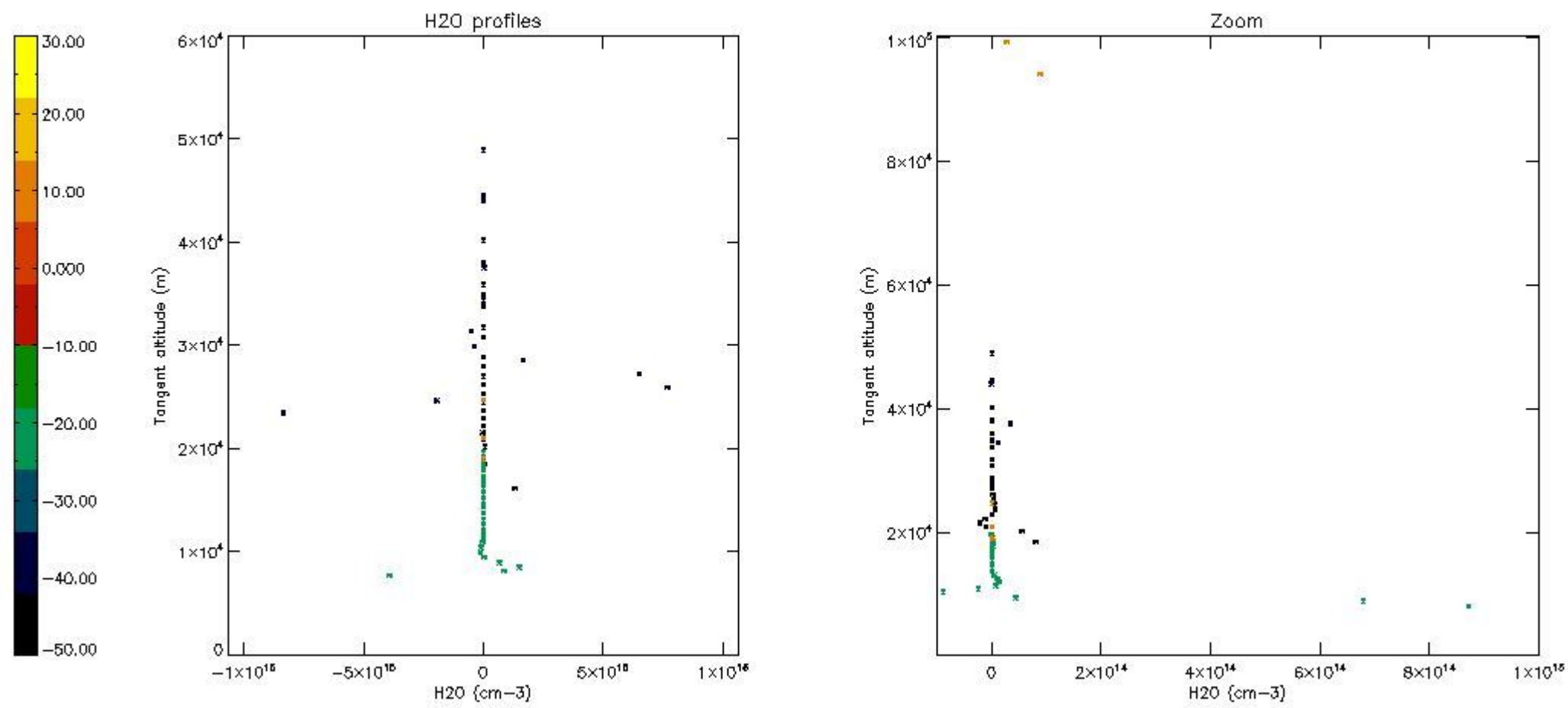
5.7 Plot NO3 profiles for all STD (dark without errors)

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	28-OCT-2004 00:01:53
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-OCT-2004 00:01:53
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-OCT-2004 00:01:53

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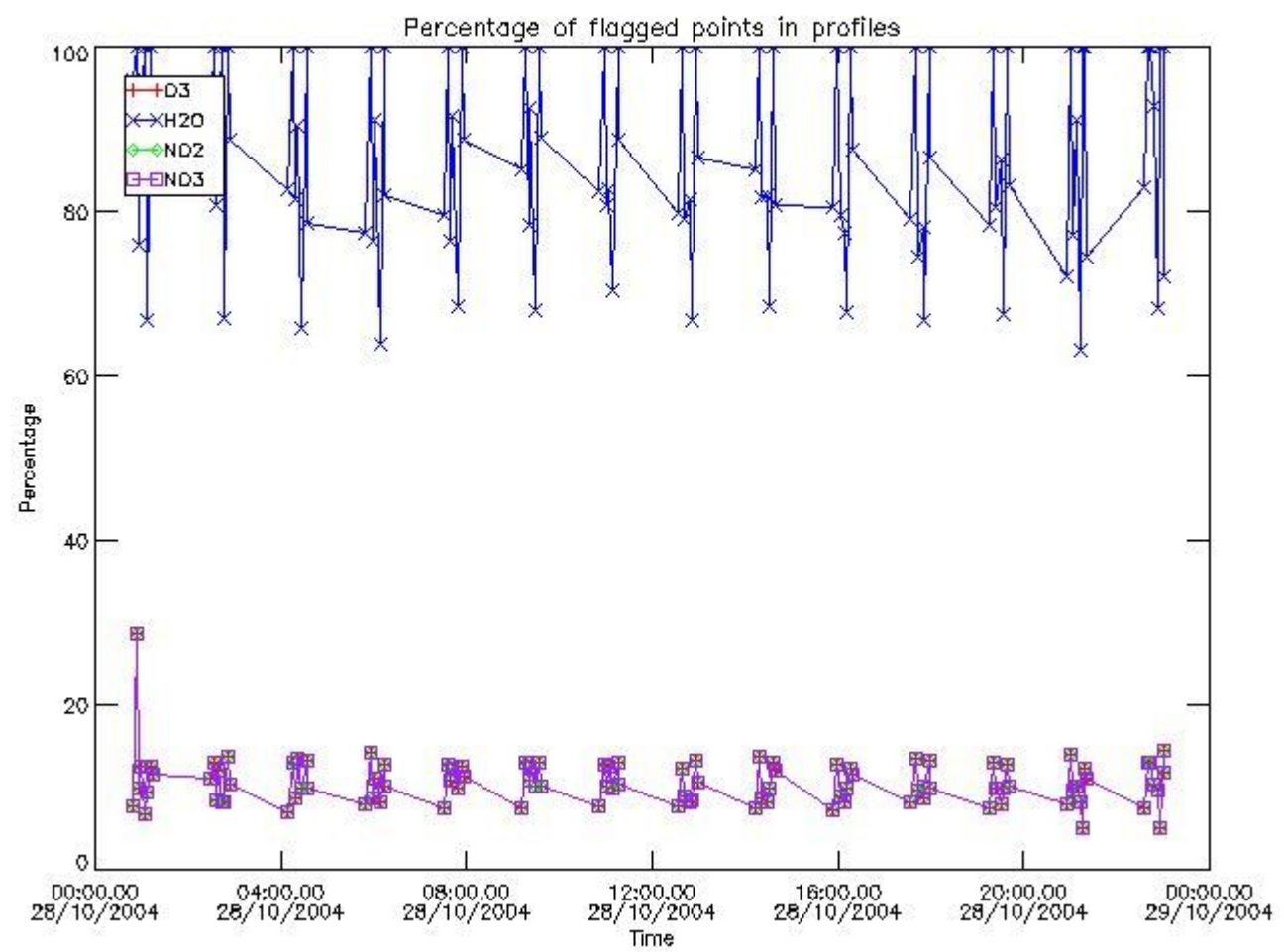
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359	GOM_NL__2PRFIN20041028_233013_000000452031_00345_13926_5565.N1	28-OCT-2004 23:30:13	Bright	44.500	73	57Gam1And	2.2600	13100.	89	13926	No
360	GOM_NL__2PRFIN20041028_233149_000000482031_00345_13926_5566.N1	28-OCT-2004 23:31:49	Bright	48.000	79	26Bet Per	2.3100	13100.	96	13926	No
361	GOM_NL__2PRFIN20041028_233414_000000382031_00345_13926_5567.N1	28-OCT-2004 23:34:14	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	13926	No
362	GOM_NL__2PRFIN20041028_233750_000000392031_00345_13926_5568.N1	28-OCT-2004 23:37:50	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	13926	No
363	GOM_NL__2PRFIN20041028_234242_000000412031_00345_13926_5569.N1	28-OCT-2004 23:42:42	Bright	41.000	49	1Alp UMi	1.9900	6300.0	82	13926	No
364	GOM_NL__2PRFIN20041028_234627_000000392031_00345_13926_5570.N1	28-OCT-2004 23:46:27	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	13926	No
365	GOM_NL__2PRFIN20041028_235055_000000422031_00345_13926_5571.N1	28-OCT-2004 23:50:55	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	13926	No
366	GOM_NL__2PRFIN20041028_235222_000000392031_00345_13926_5572.N1	28-OCT-2004 23:52:22	Bright	38.500	32	77Eps UMa	1.7630	11000.	77	13926	No
367	GOM_NL__2PRFIN20041028_235609_000000402031_00345_13926_5573.N1	28-OCT-2004 23:56:09	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	13926	No

3. Quality information per product

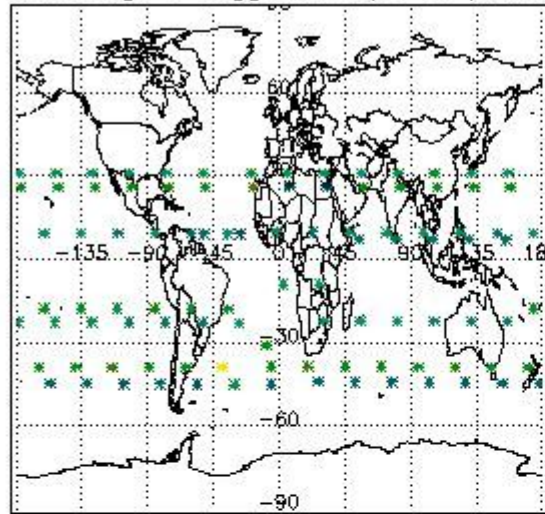
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

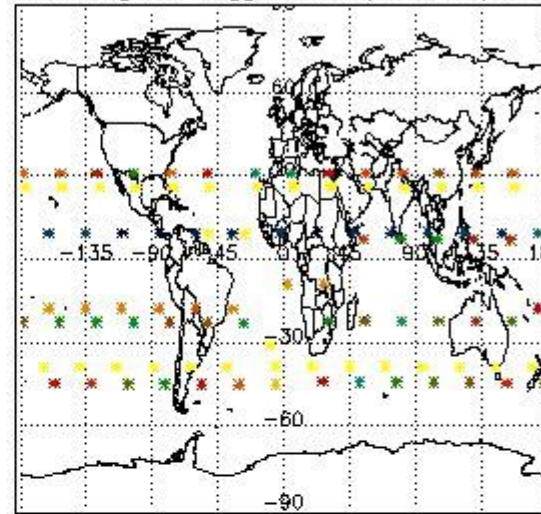


3.2 Plot quality information per product (world map)

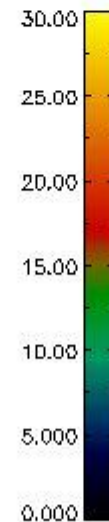
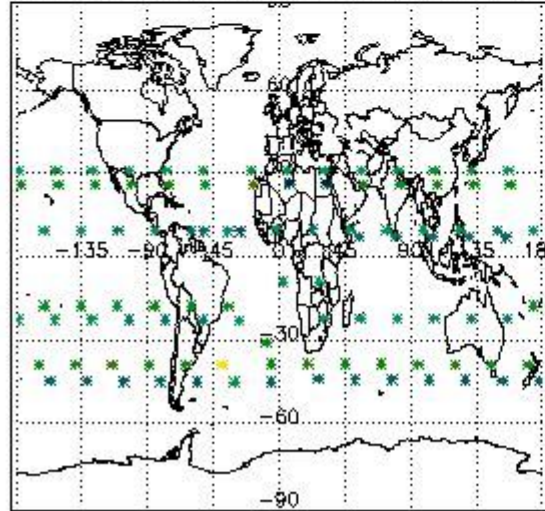
Percentage of flagged data per O3 profile



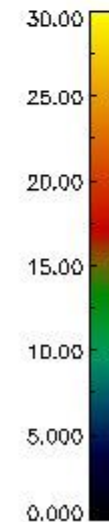
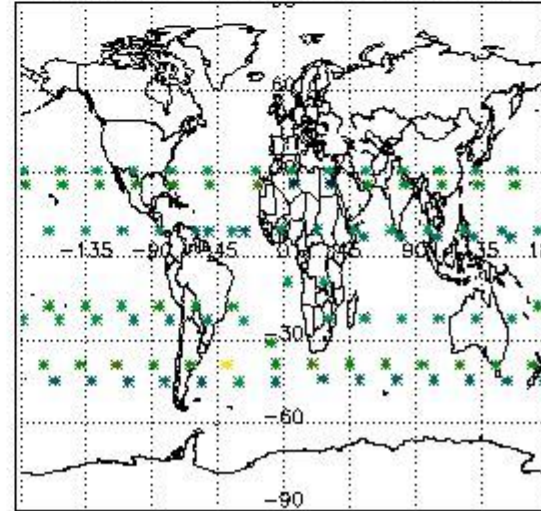
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

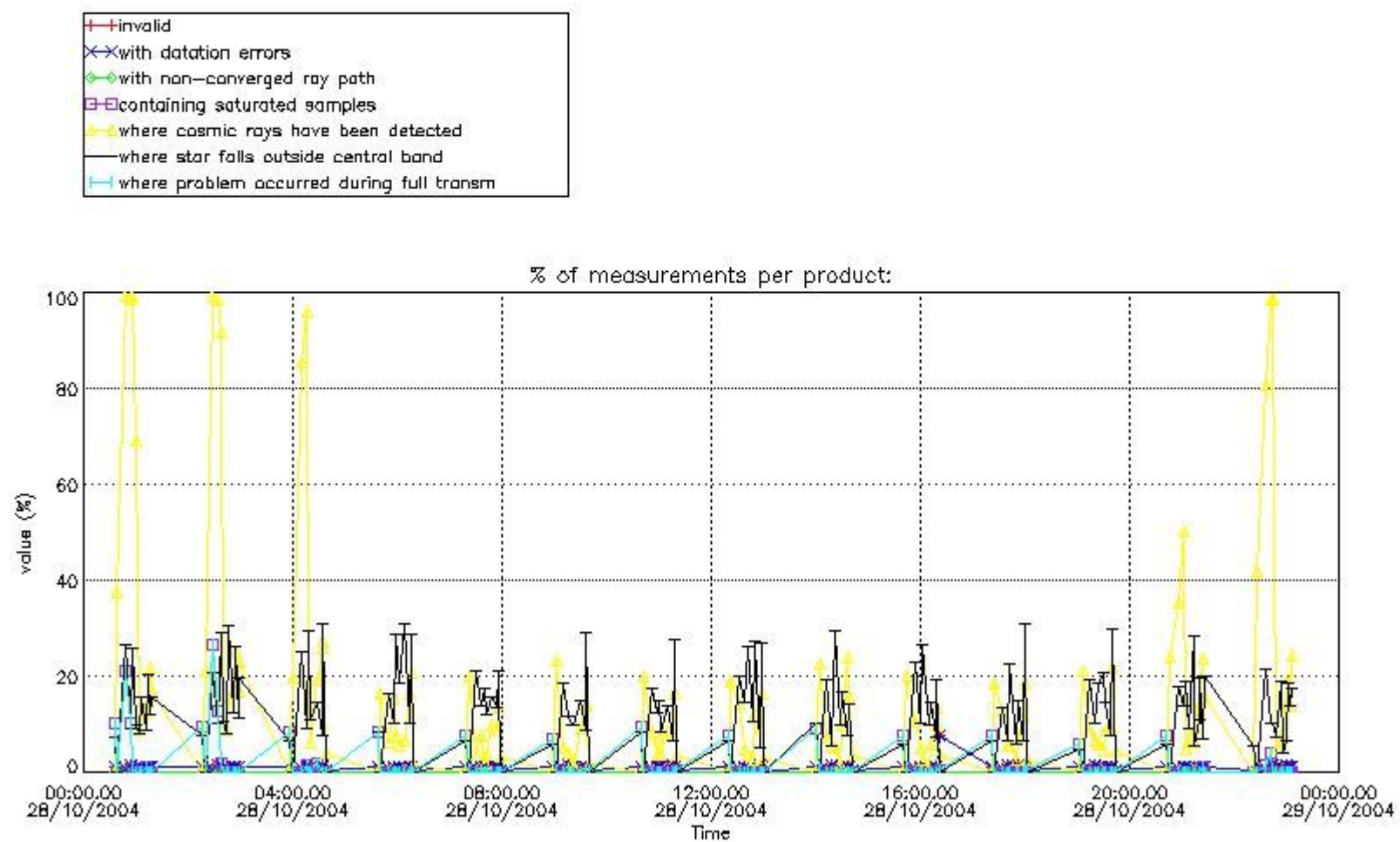


4. Level 1 quality information per product

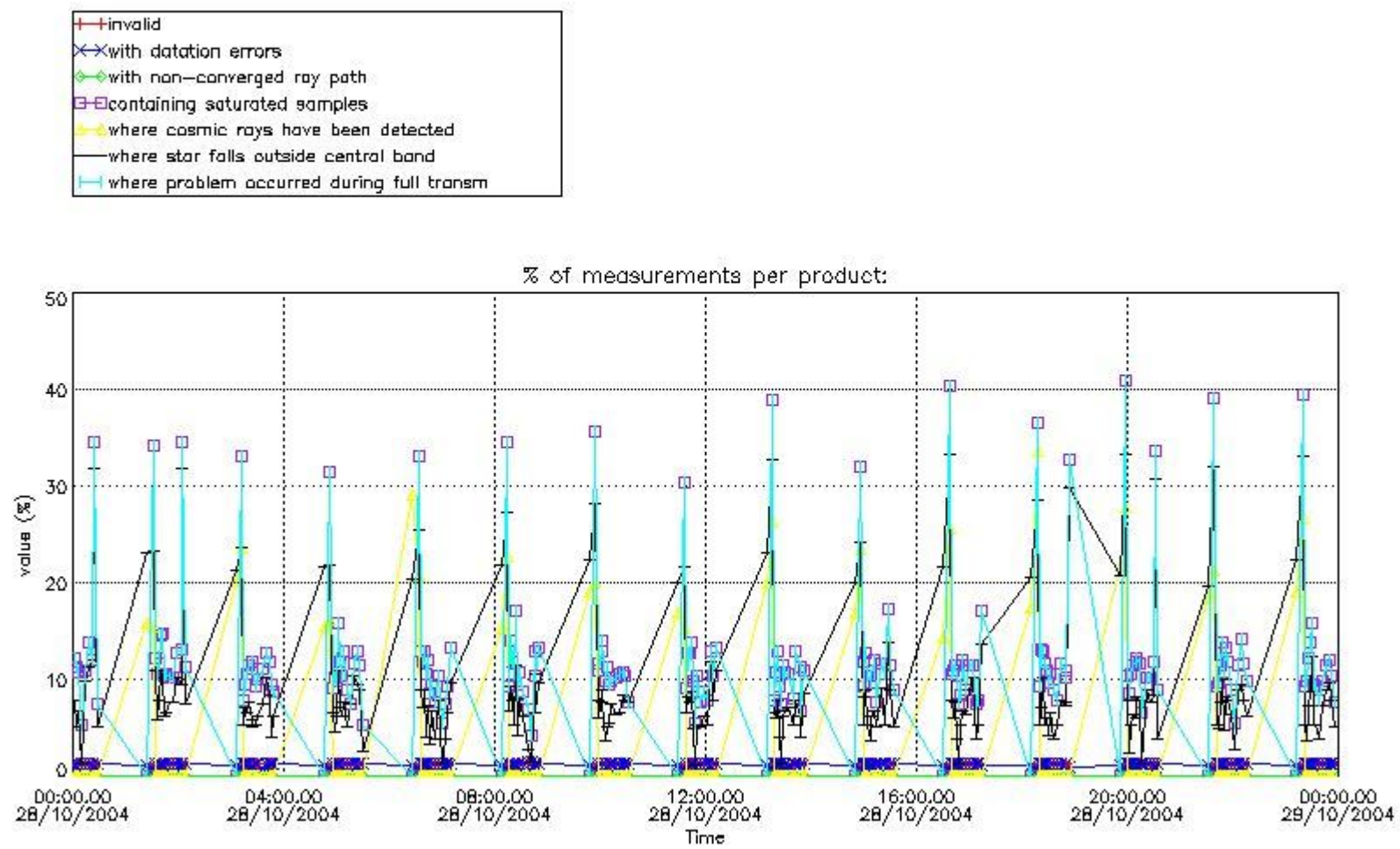
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



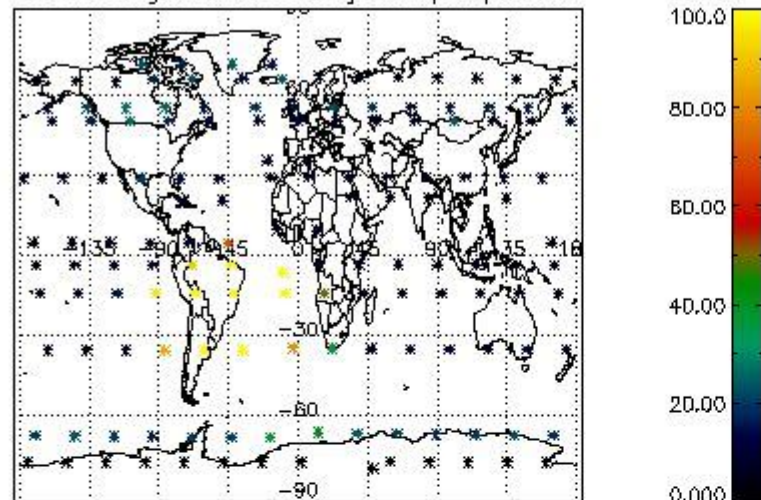
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



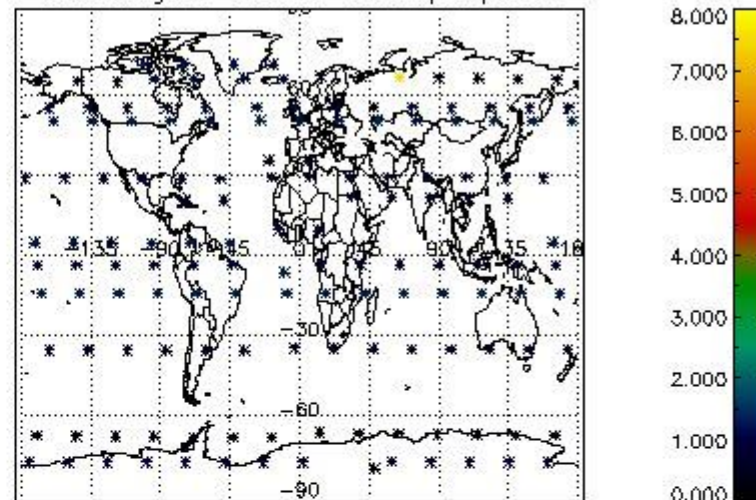
4.2 Plot quality information per product coming from level 1b processing (world map)

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

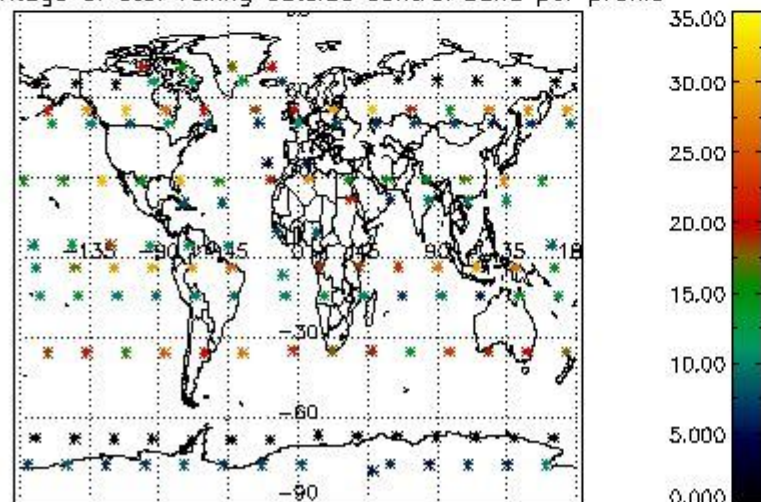
Percentage of cosmic ray hits per profile



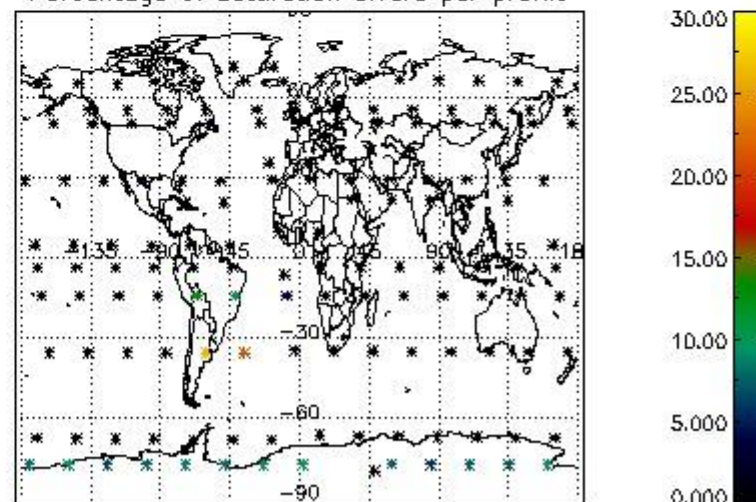
Percentage of datation errors per profile



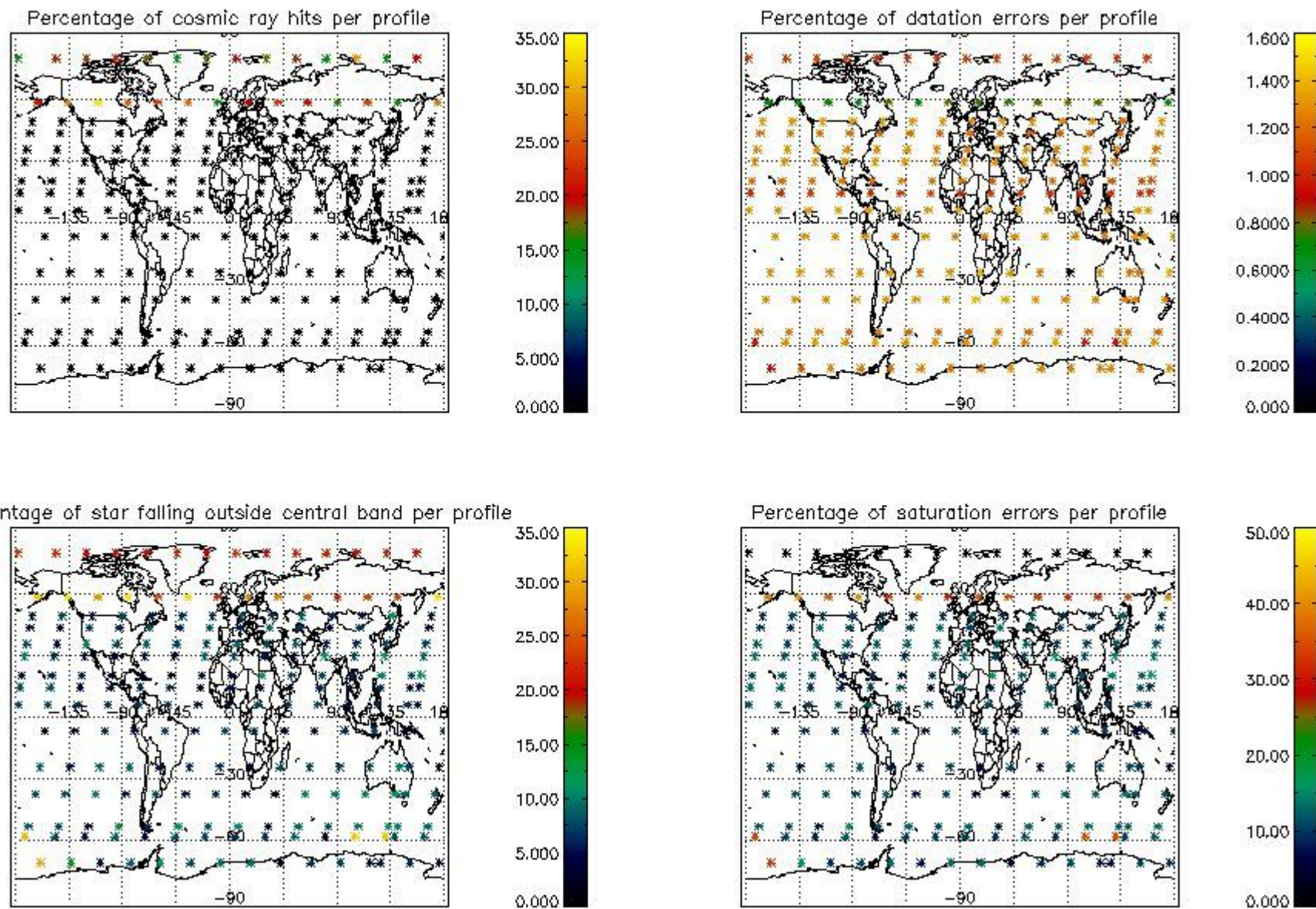
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

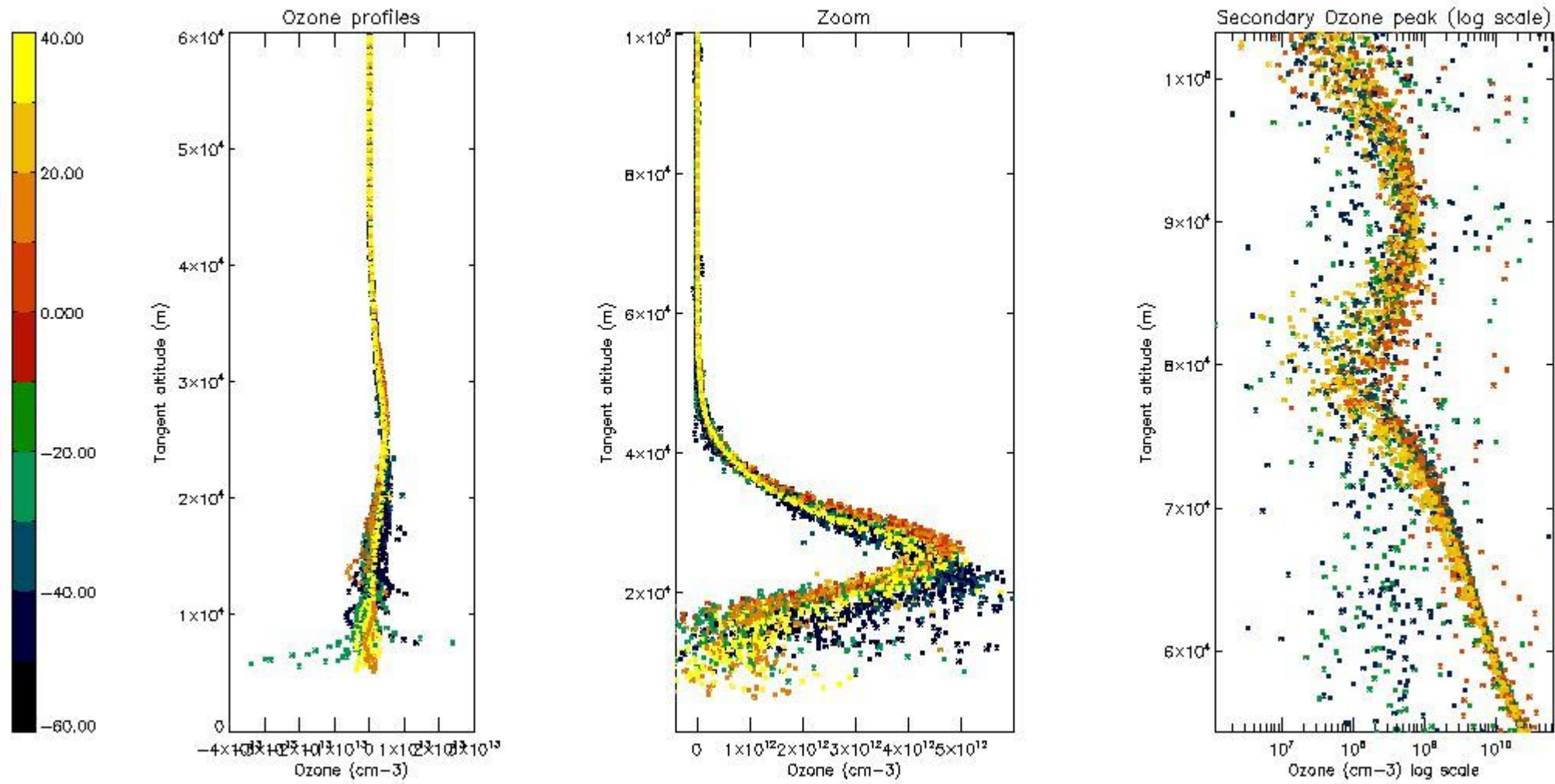
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	25
STD < 20	13

STD < 10	10
STD < 5	7

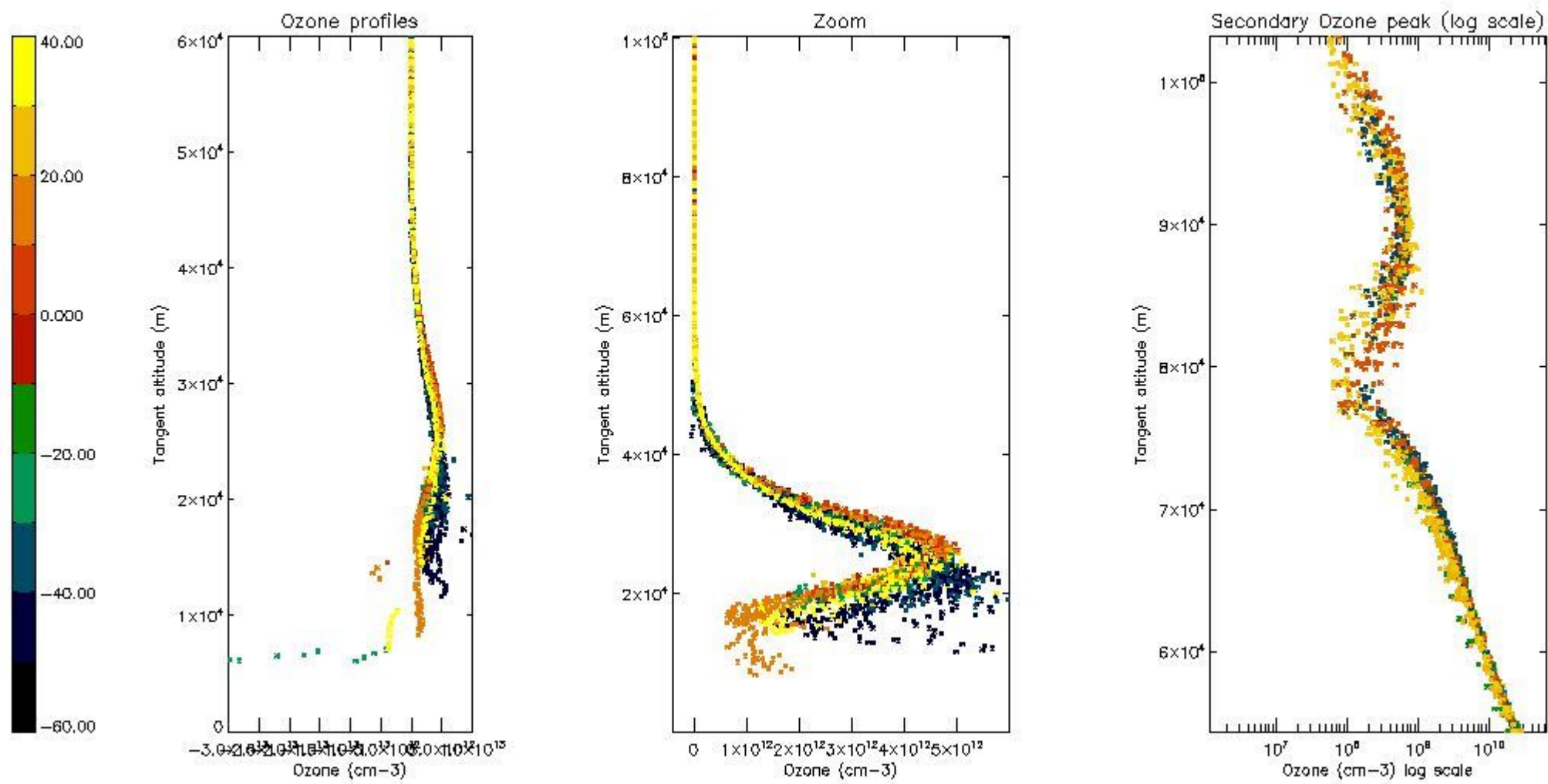
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



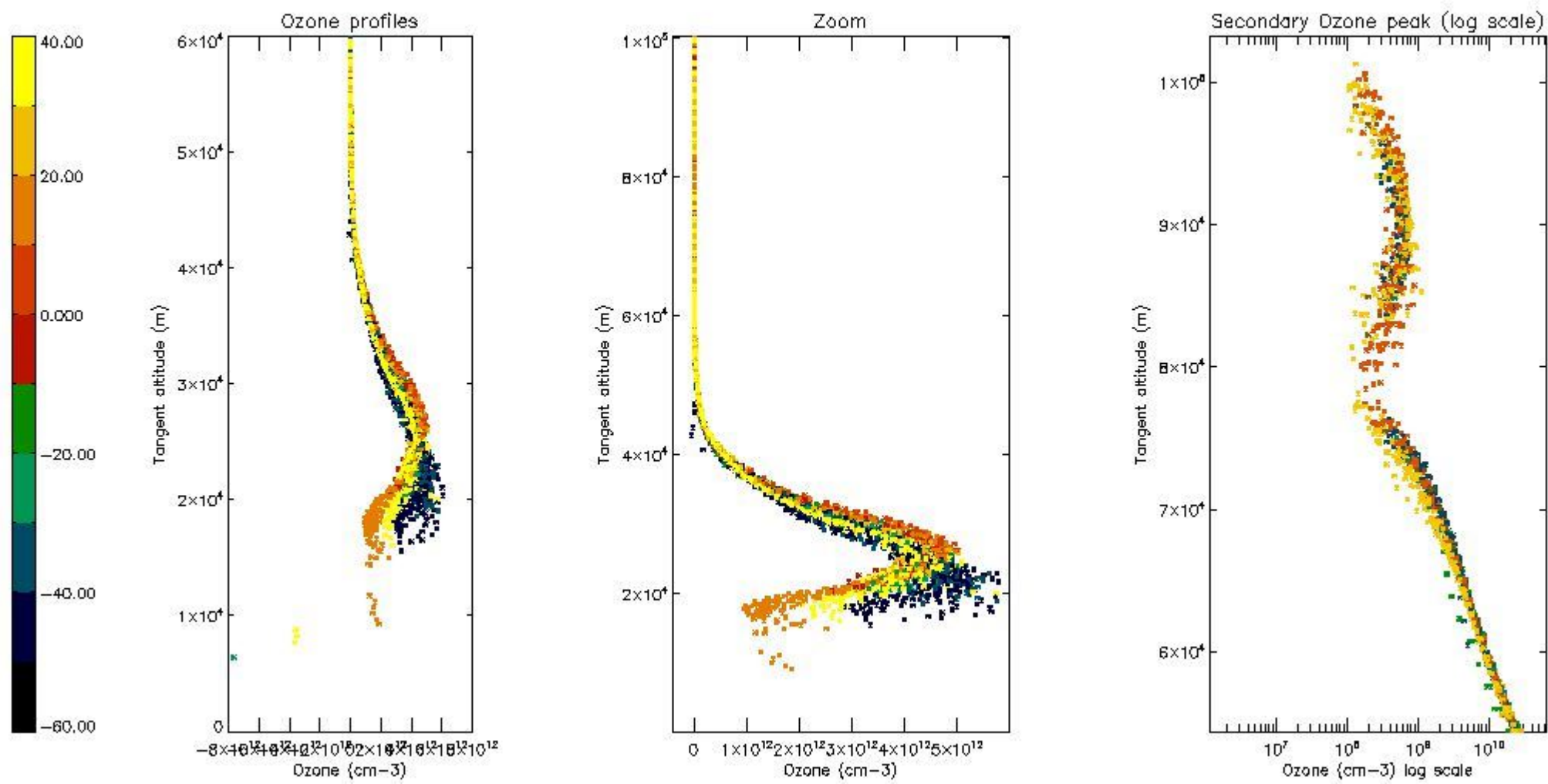
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



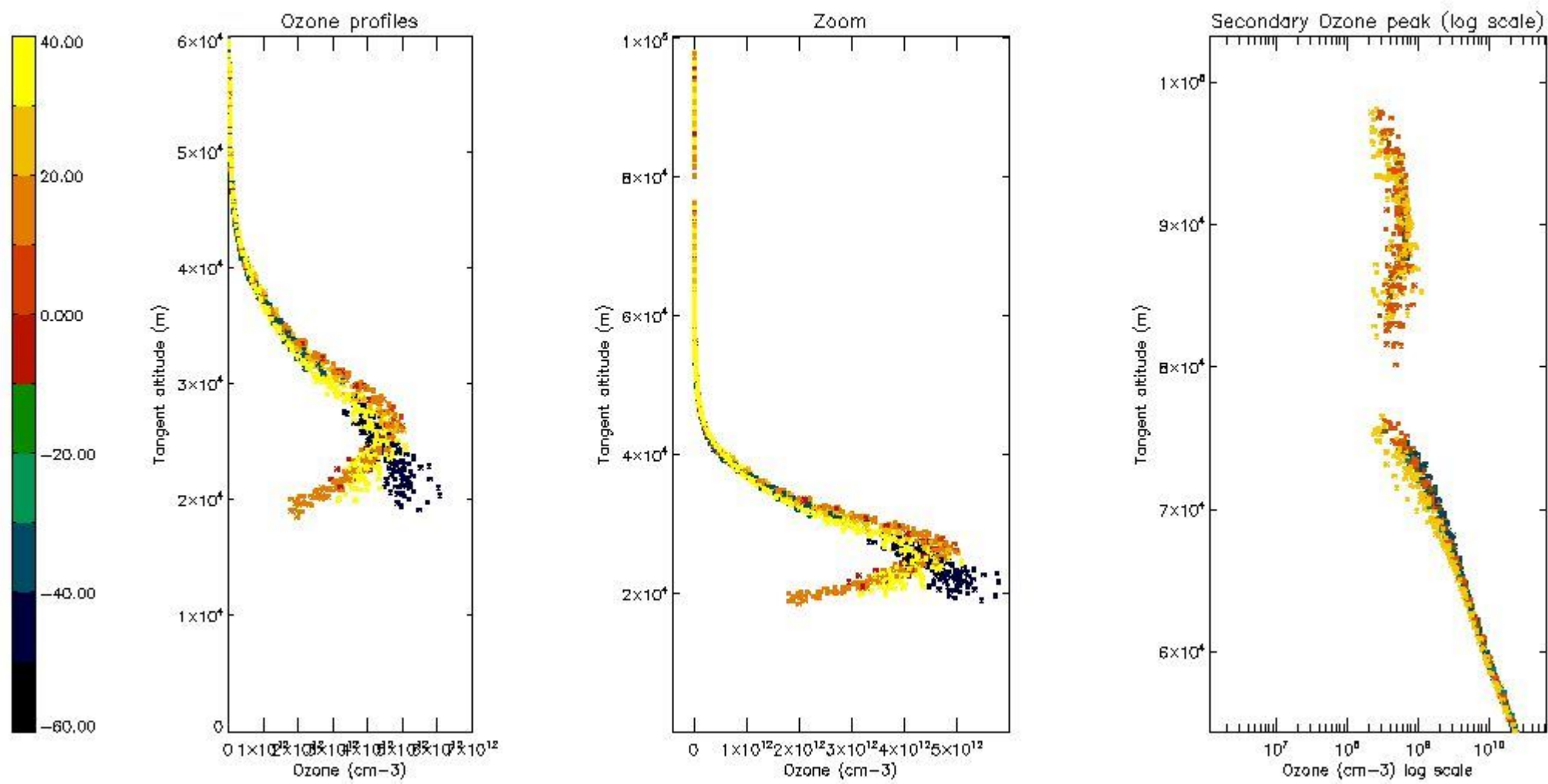
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



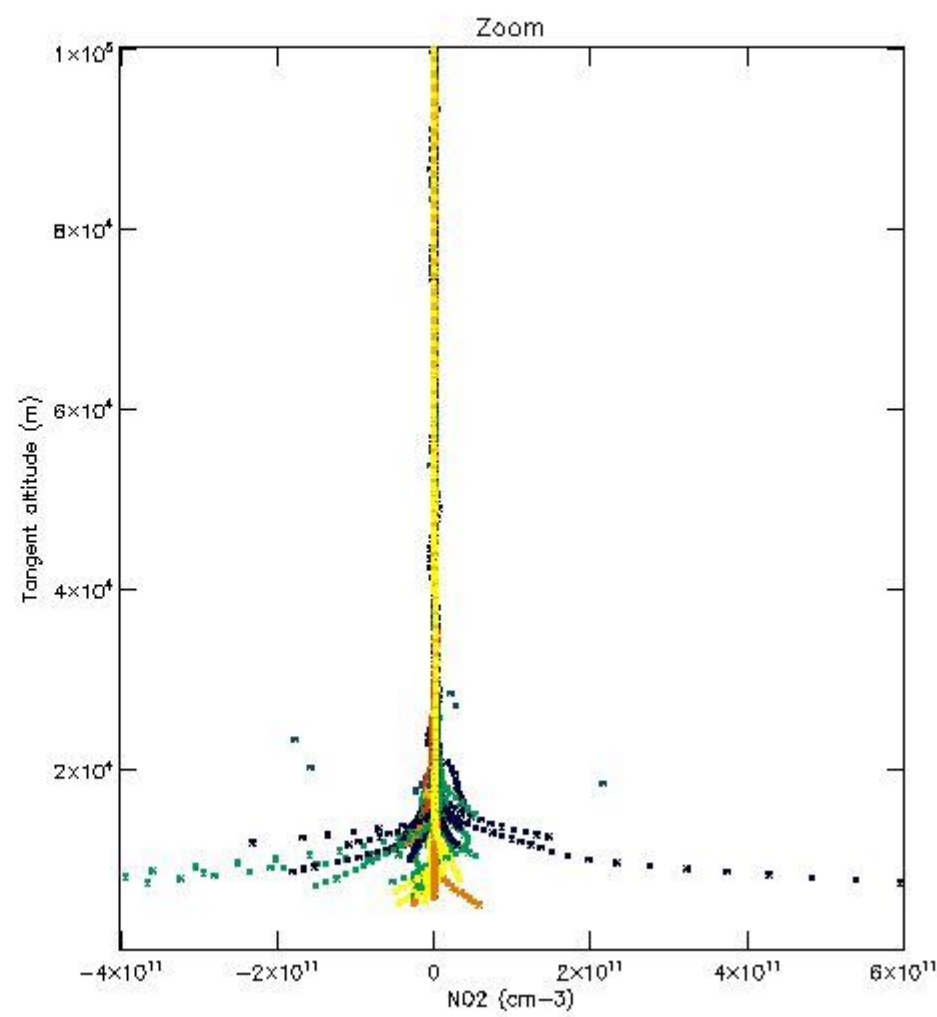
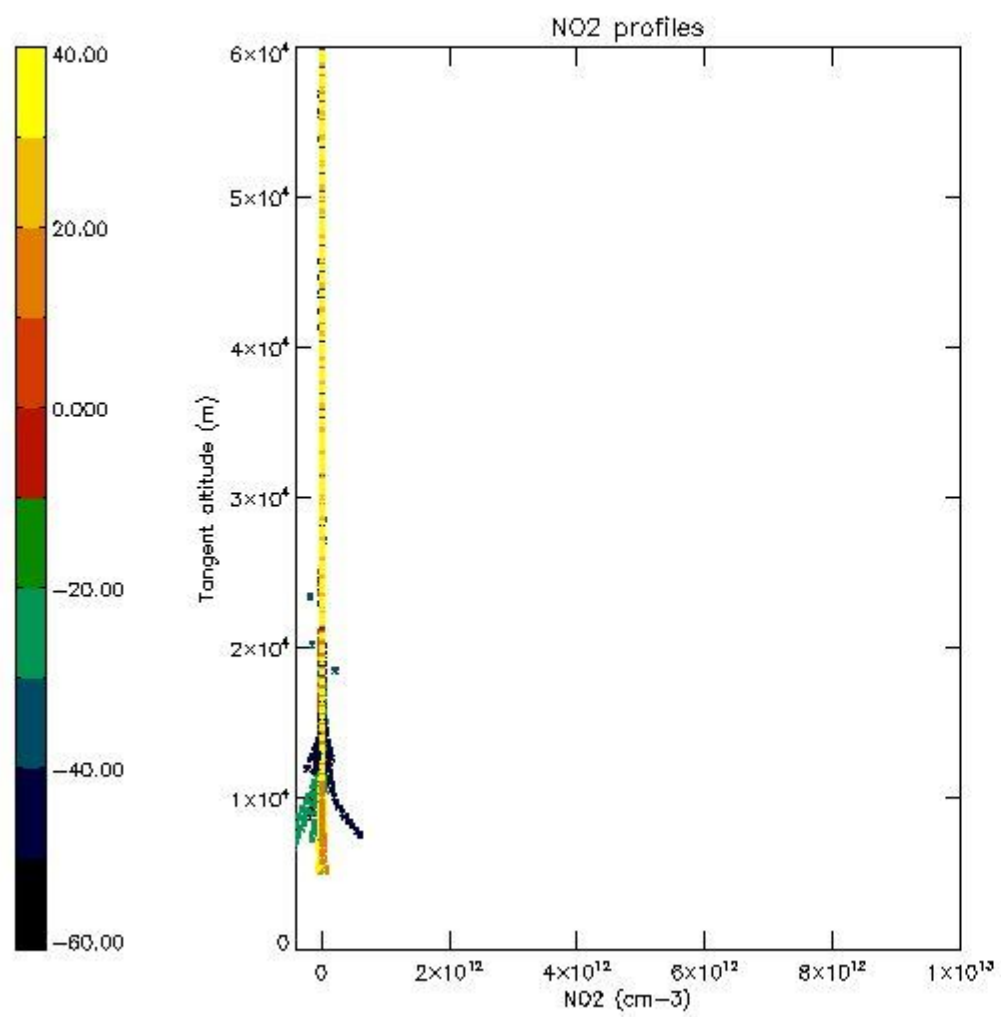
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



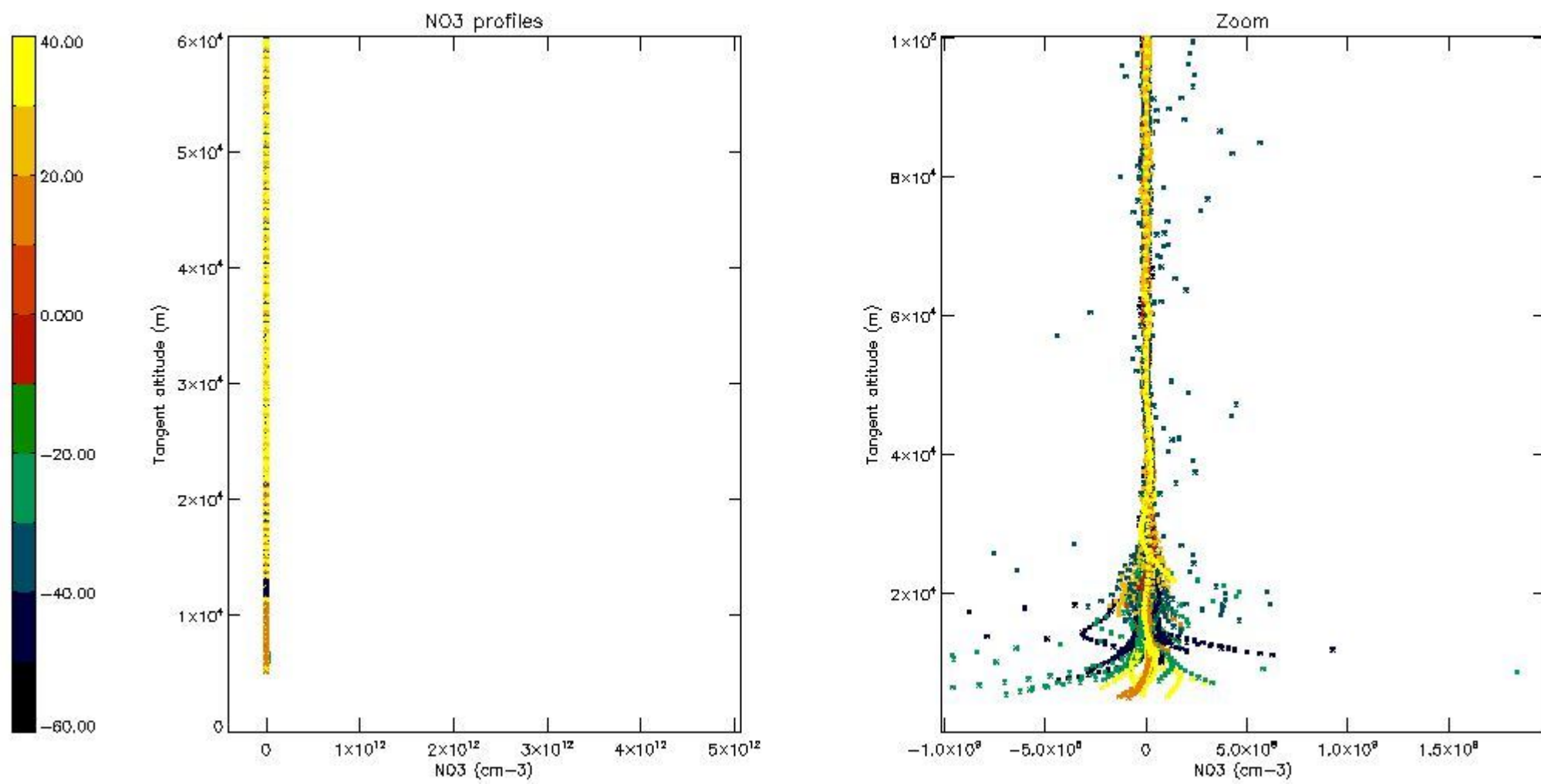
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



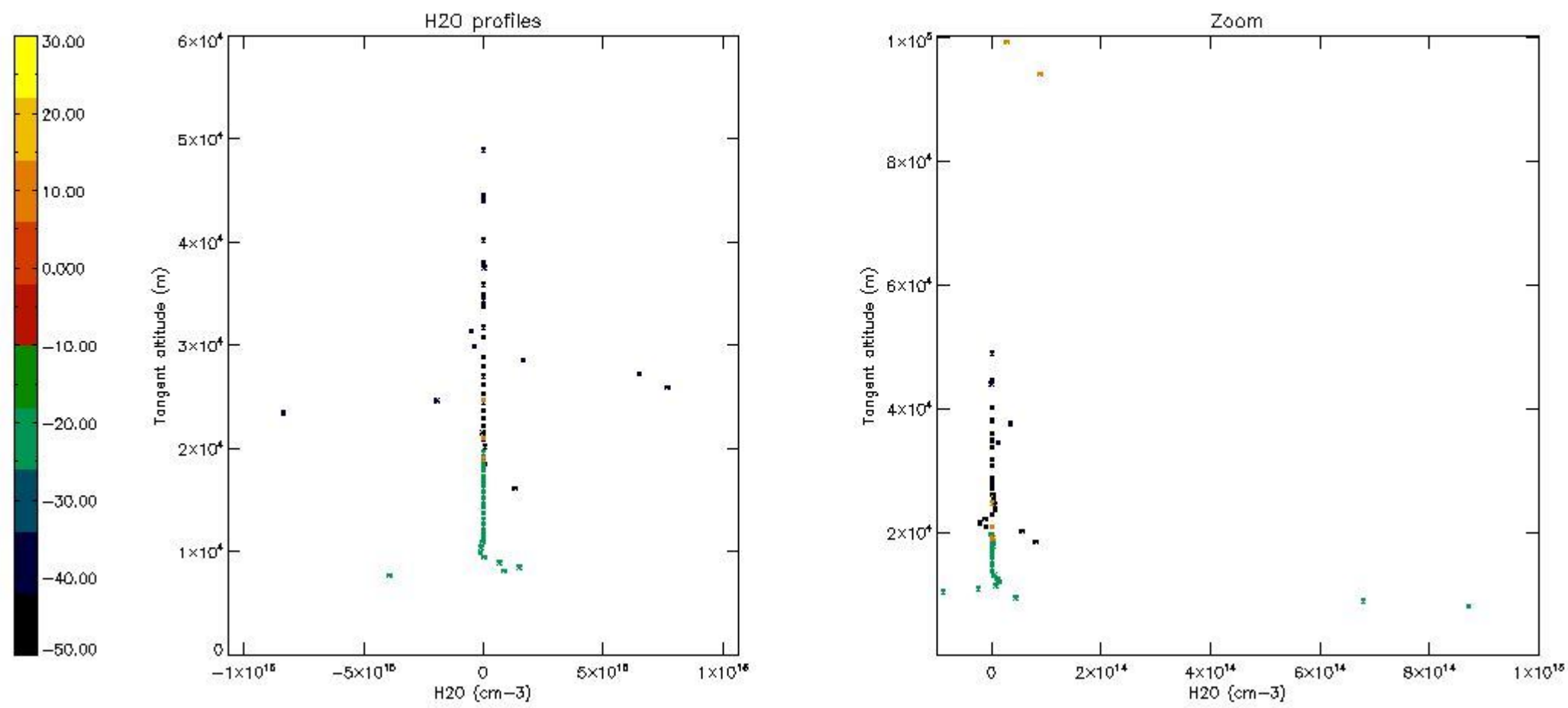
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

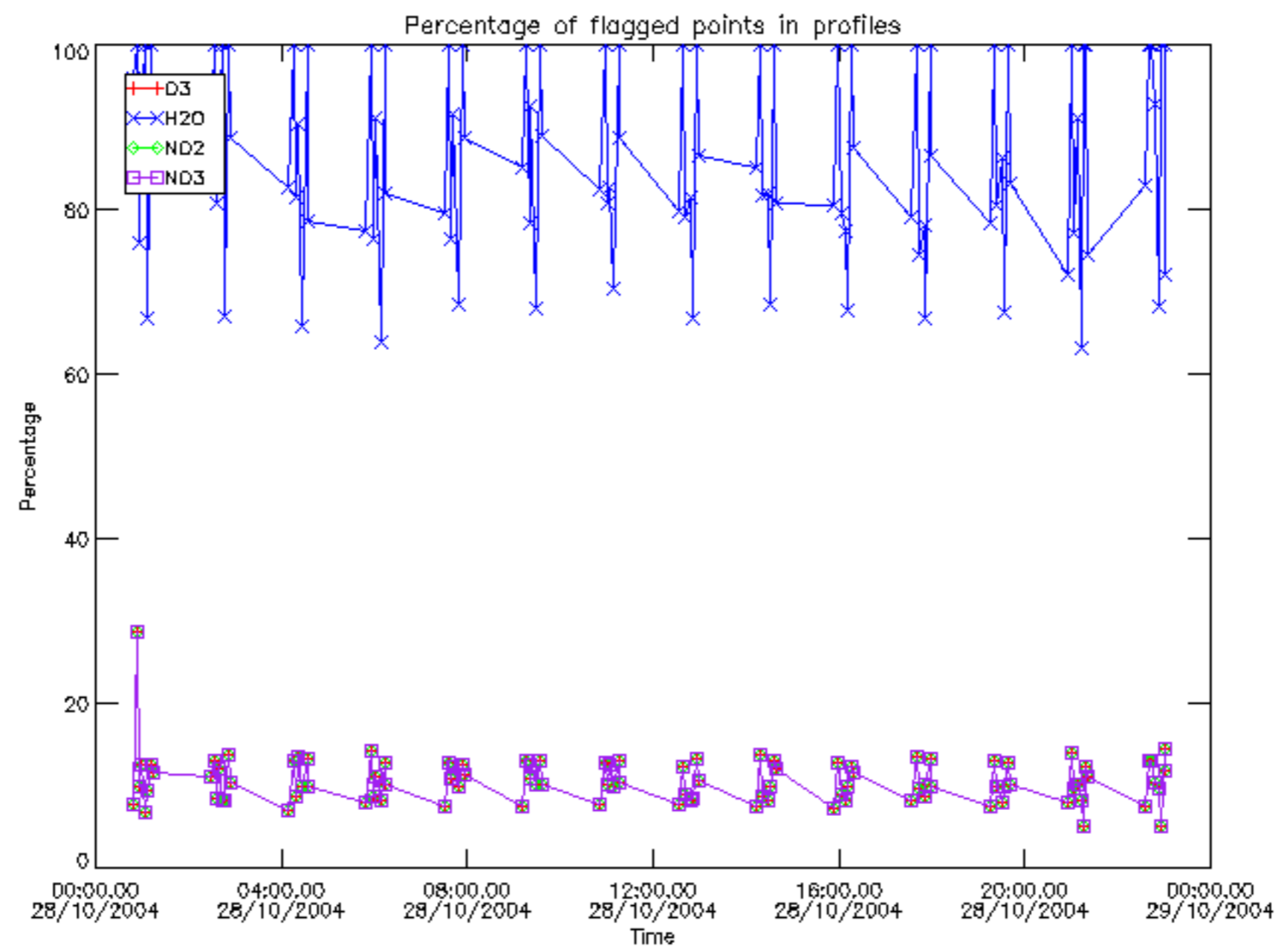
The colorbar represents the latitude.



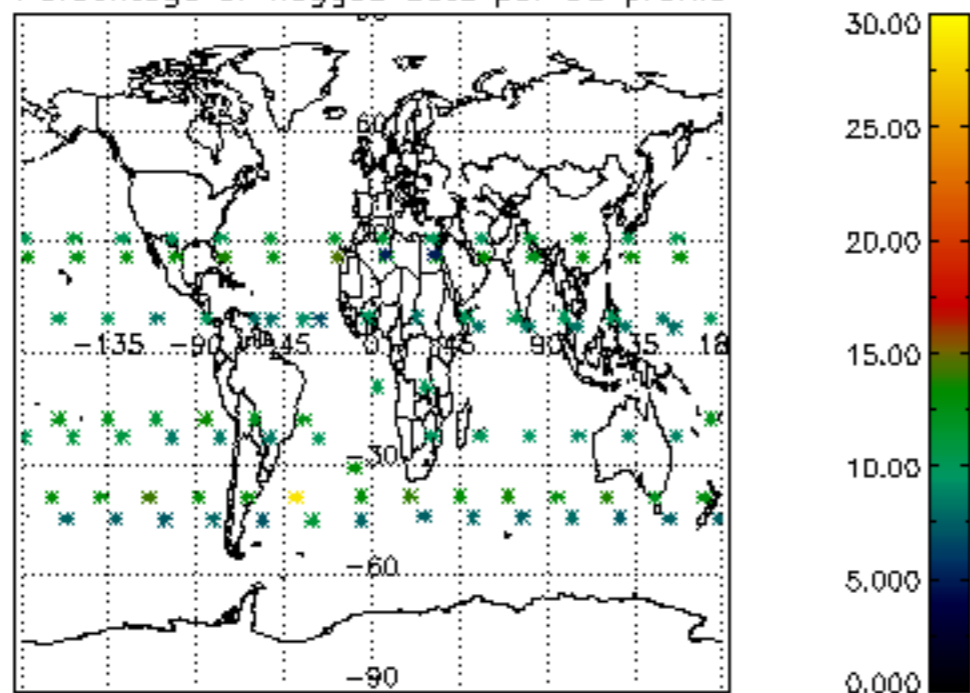
6. Auxiliary Data Files used for the production reported in section 2

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.

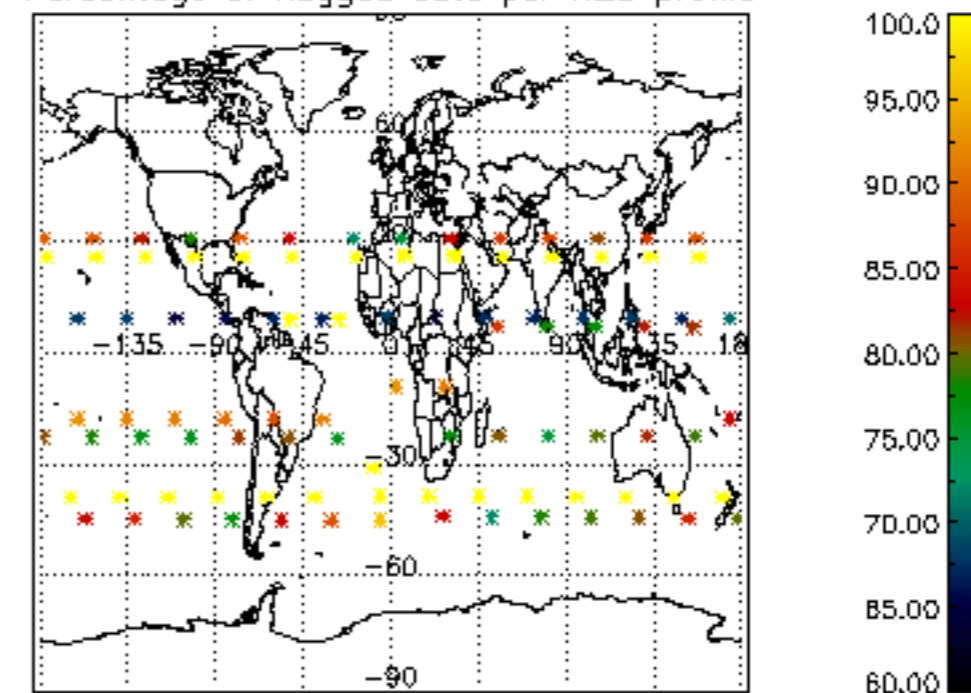
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	28-OCT-2004 00:01:53
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-OCT-2004 00:01:53
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-OCT-2004 00:01:53



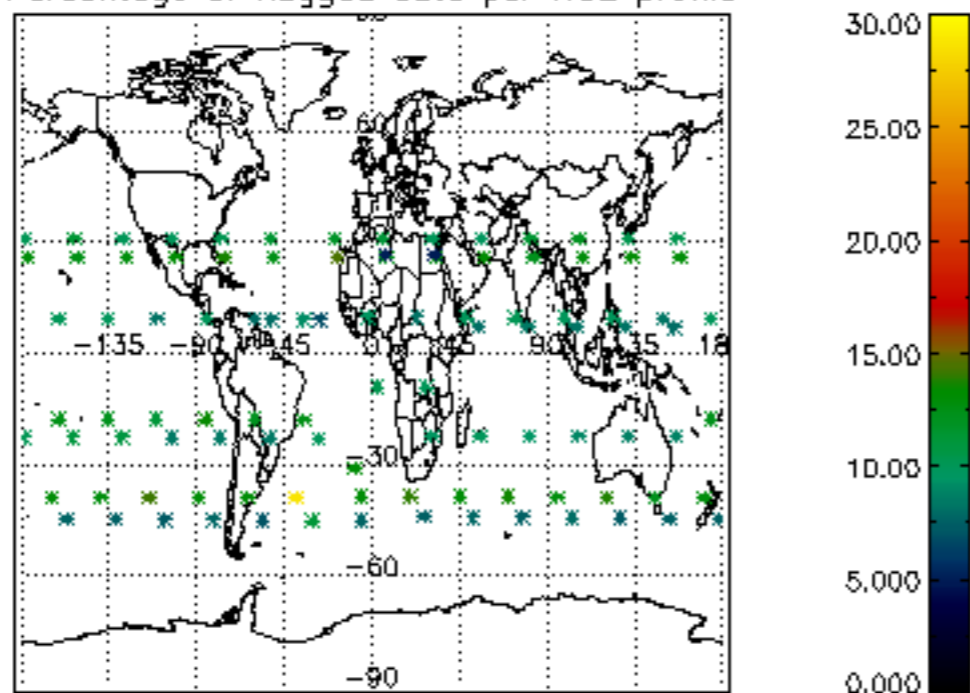
Percentage of flagged data per D3 profile



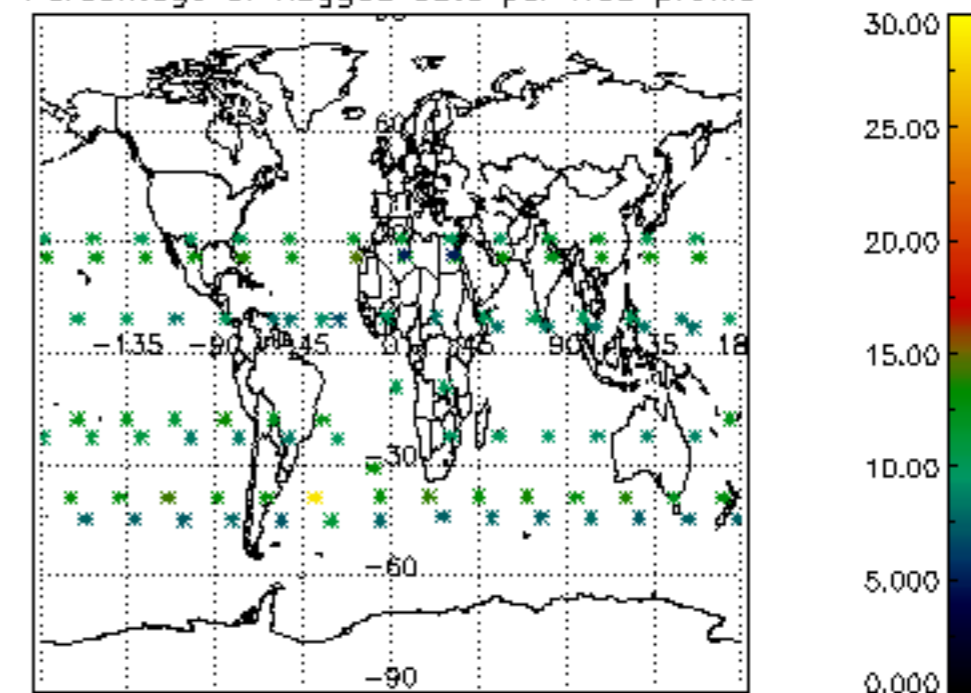
Percentage of flagged data per H2O profile

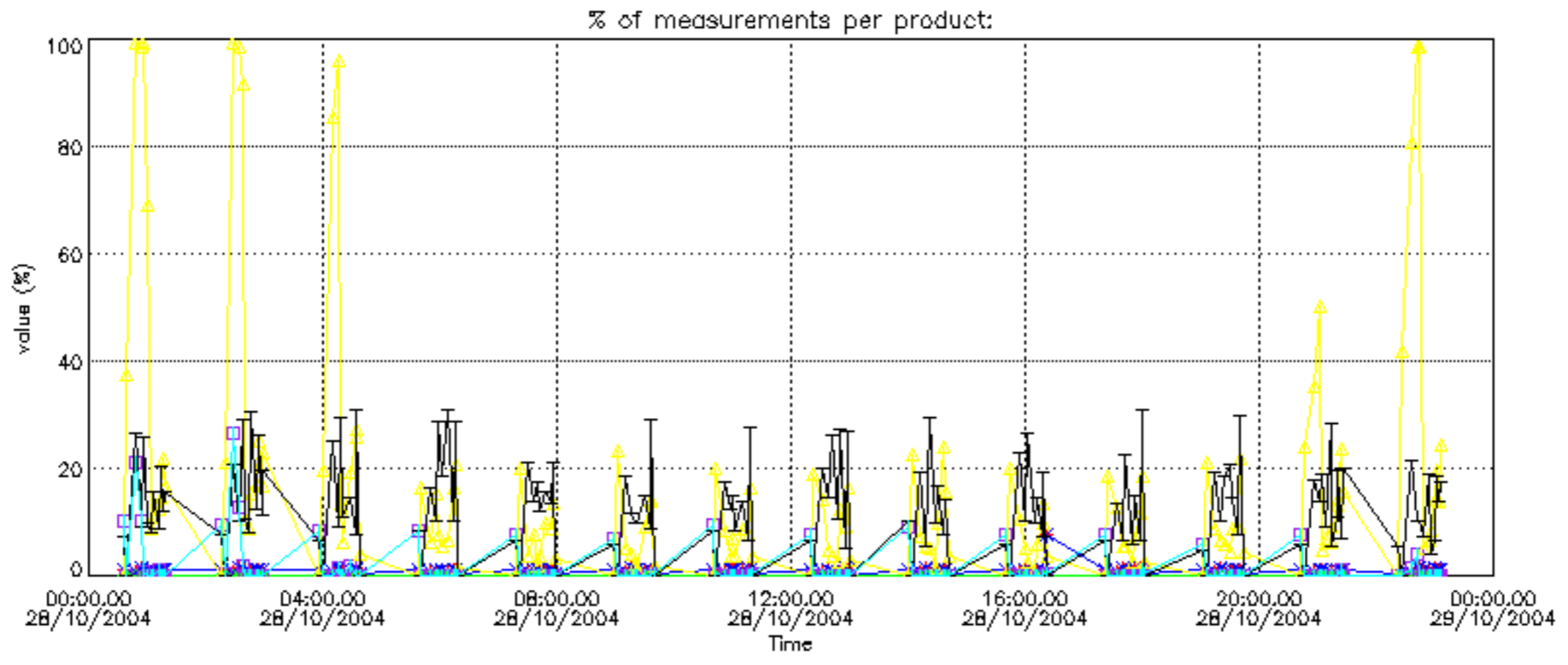


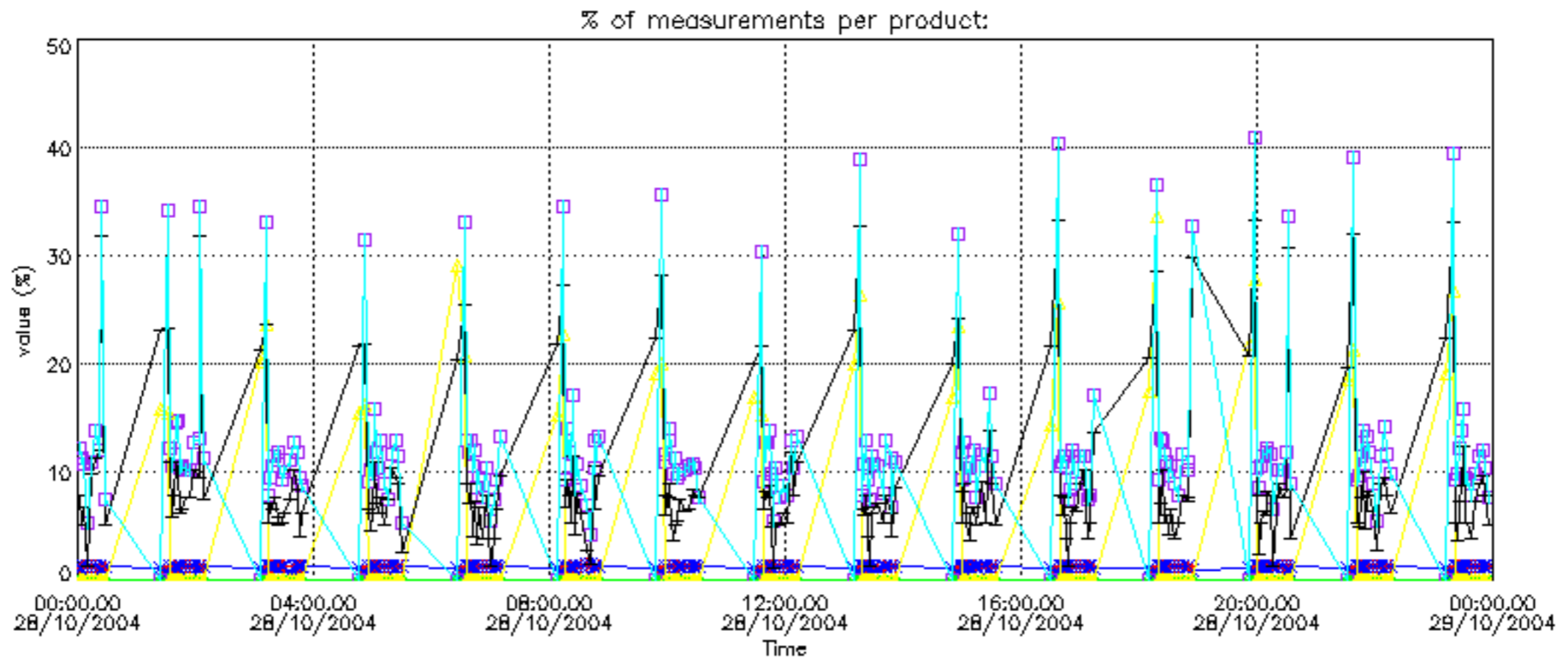
Percentage of flagged data per NO2 profile



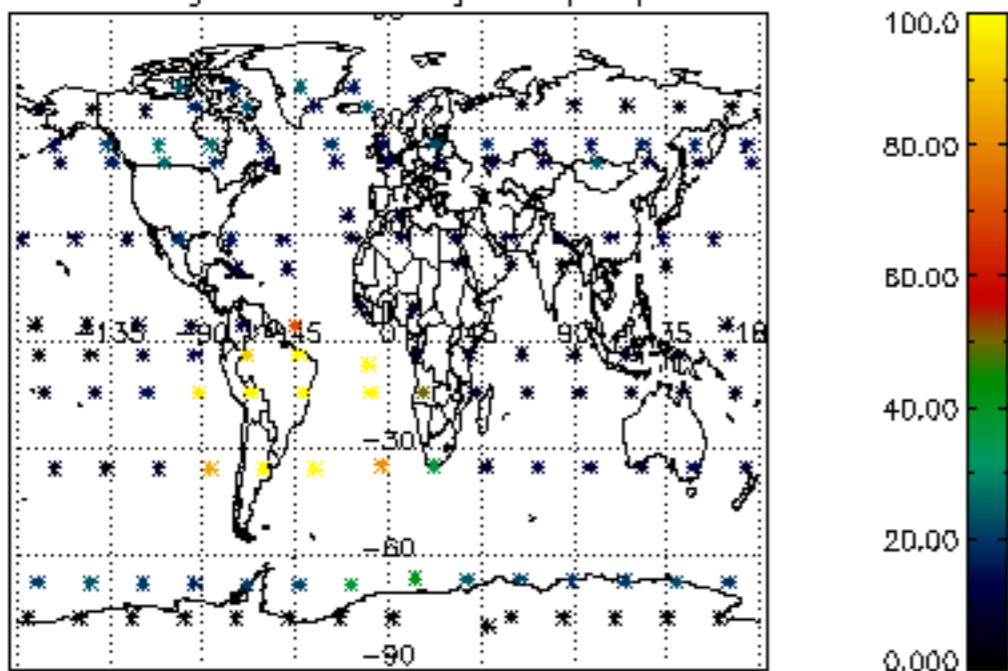
Percentage of flagged data per NO3 profile



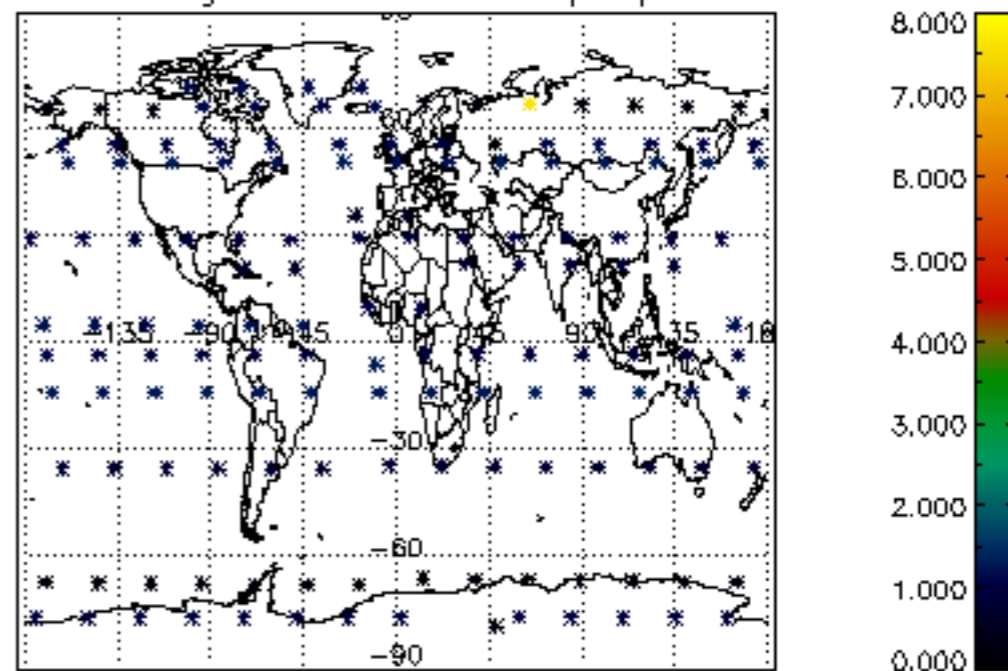




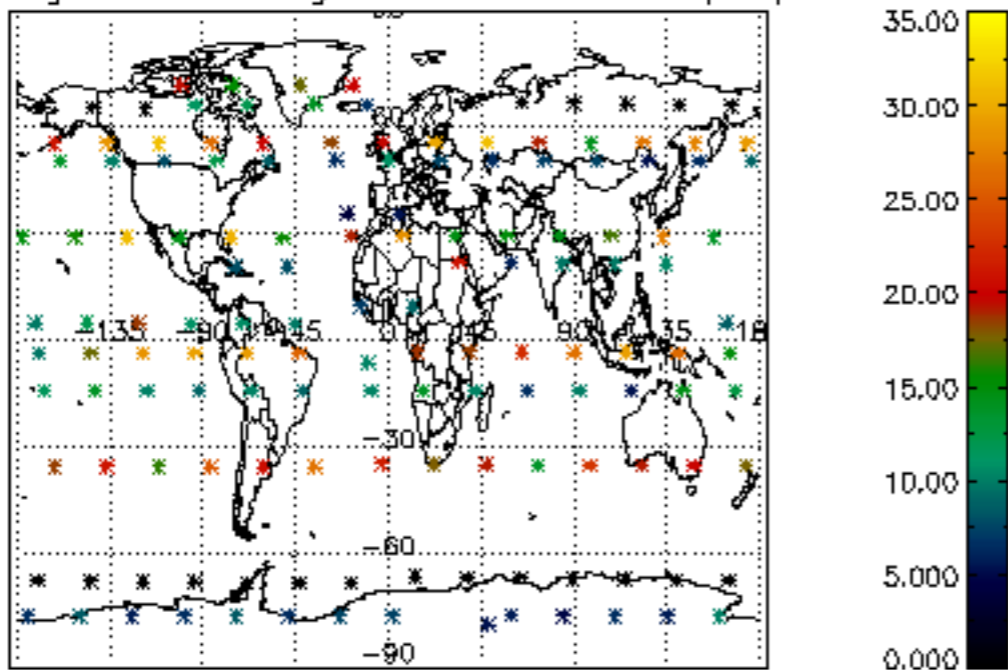
Percentage of cosmic ray hits per profile



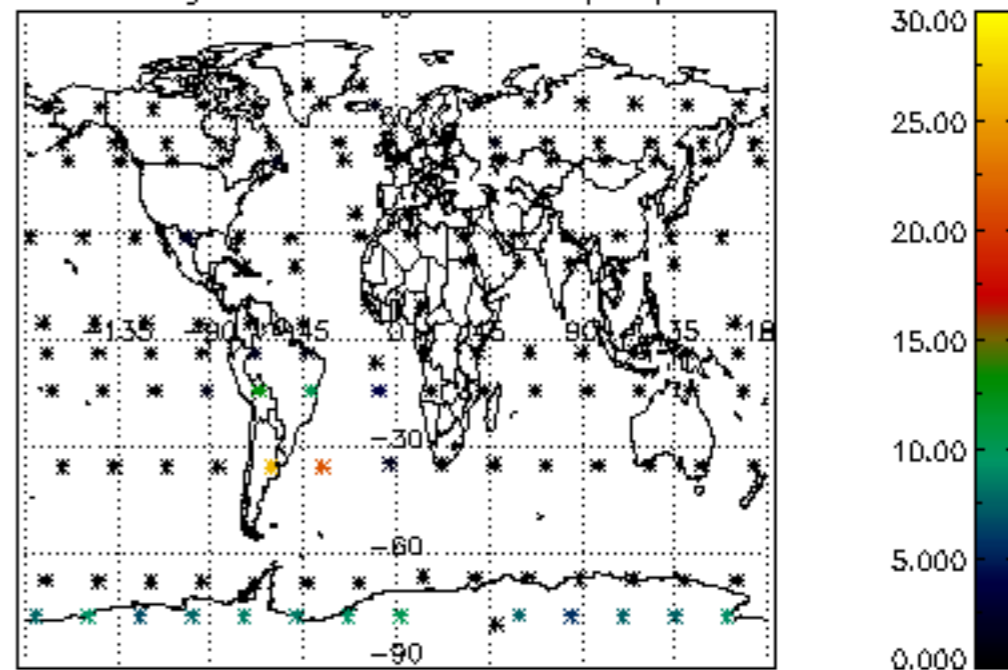
Percentage of datation errors per profile



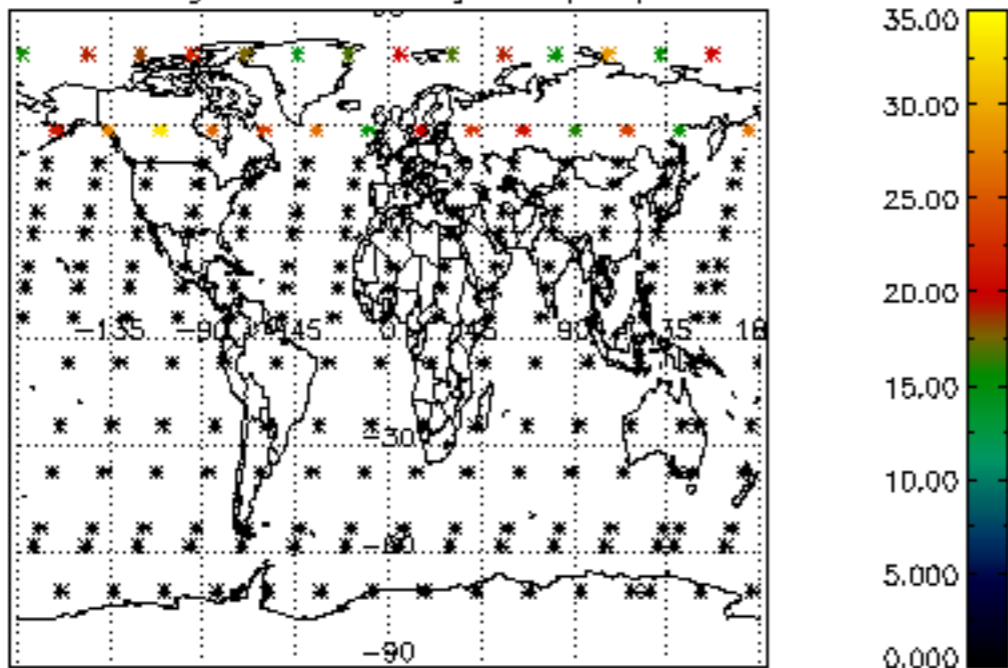
Percentage of star falling outside central band per profile



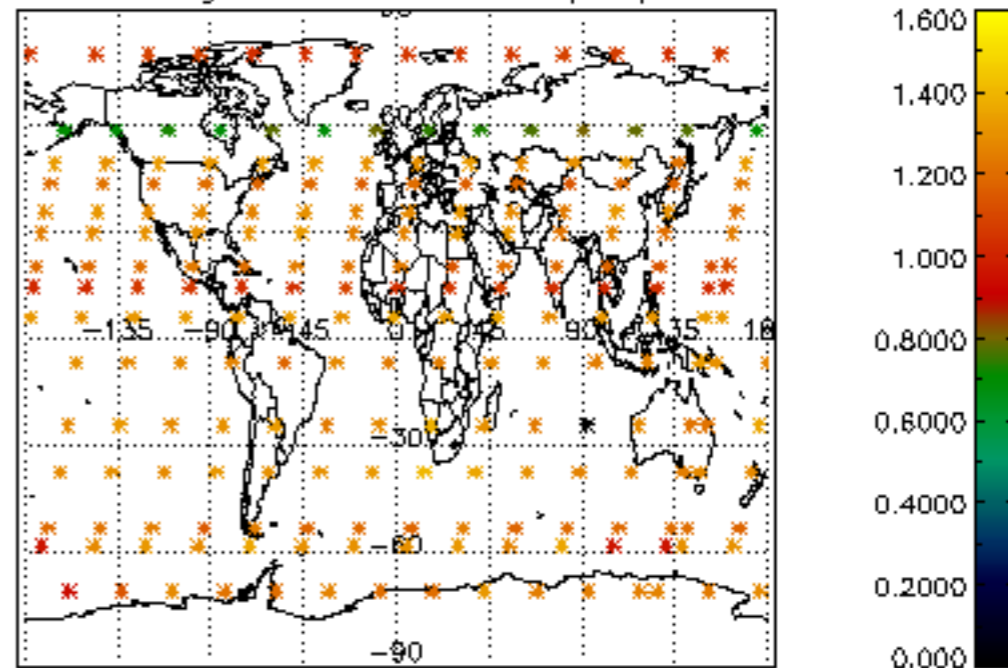
Percentage of saturation errors per profile



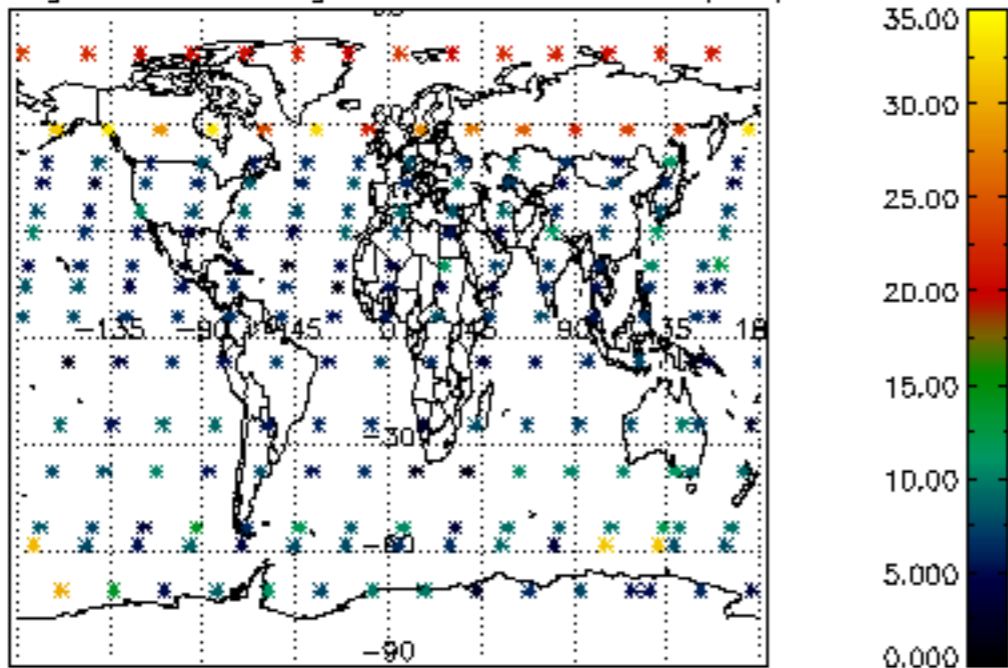
Percentage of cosmic ray hits per profile



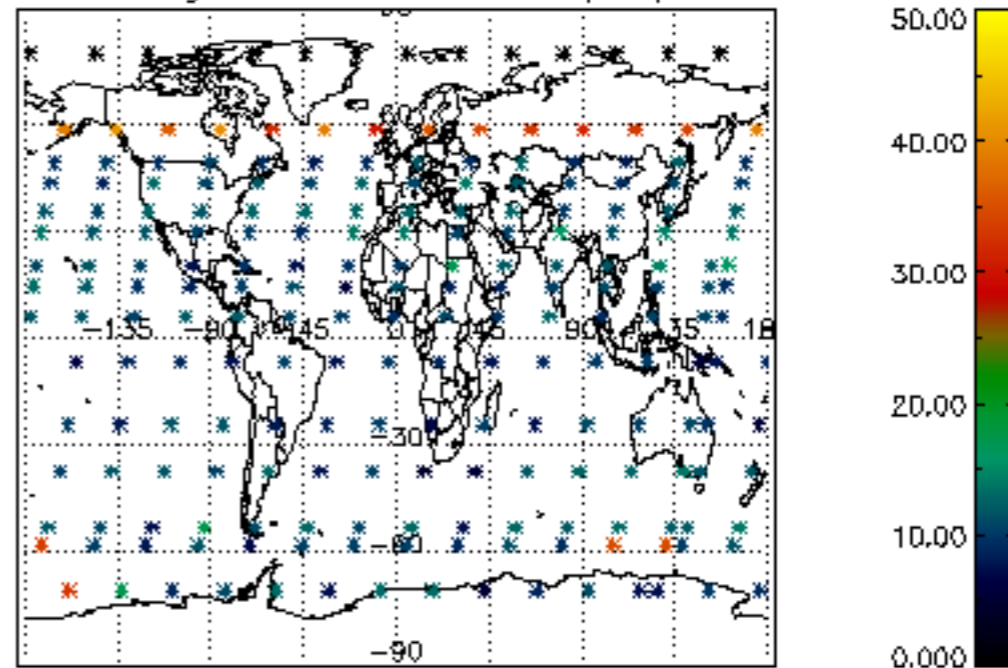
Percentage of datation errors per profile

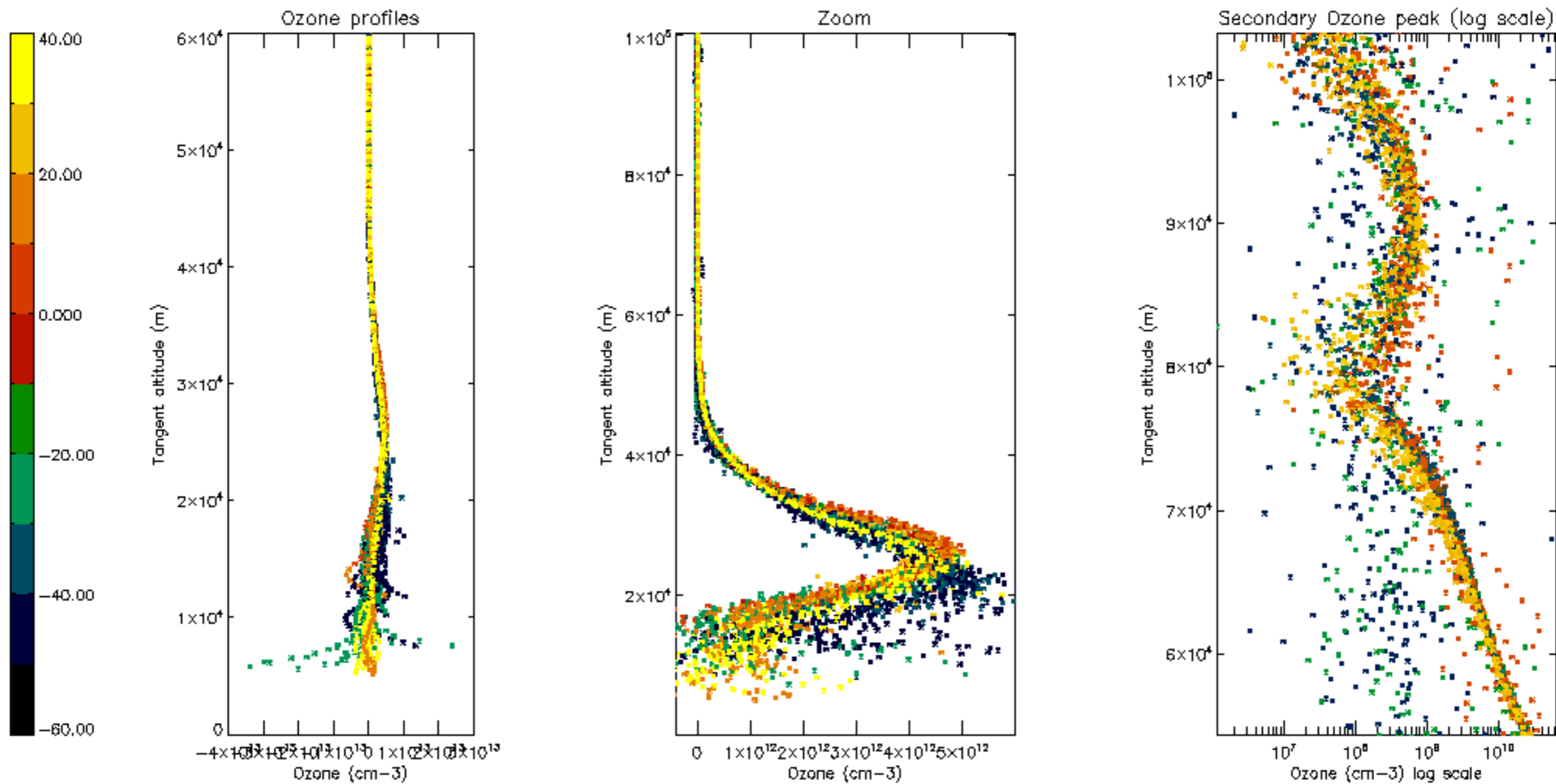


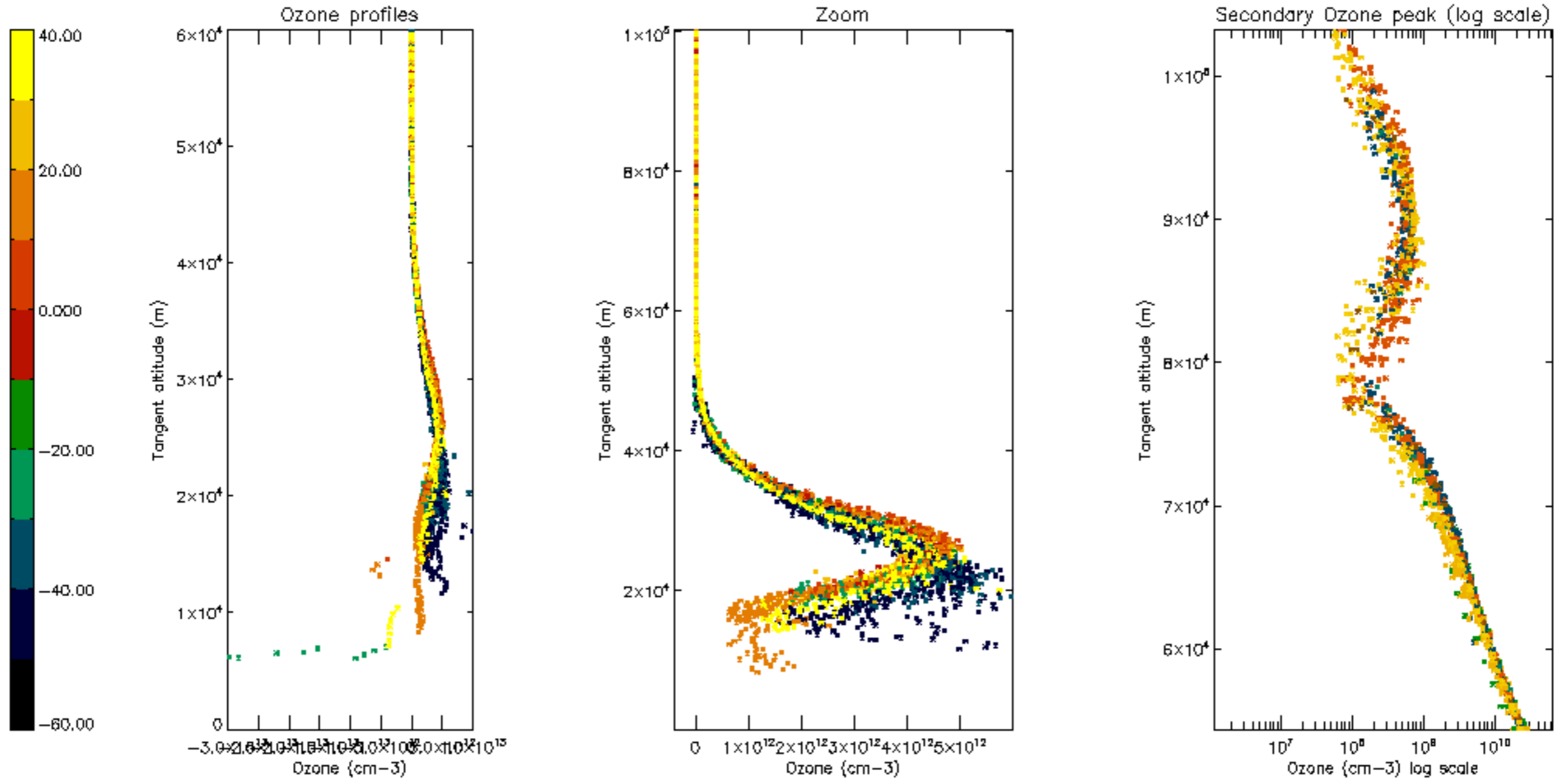
Percentage of star falling outside central band per profile

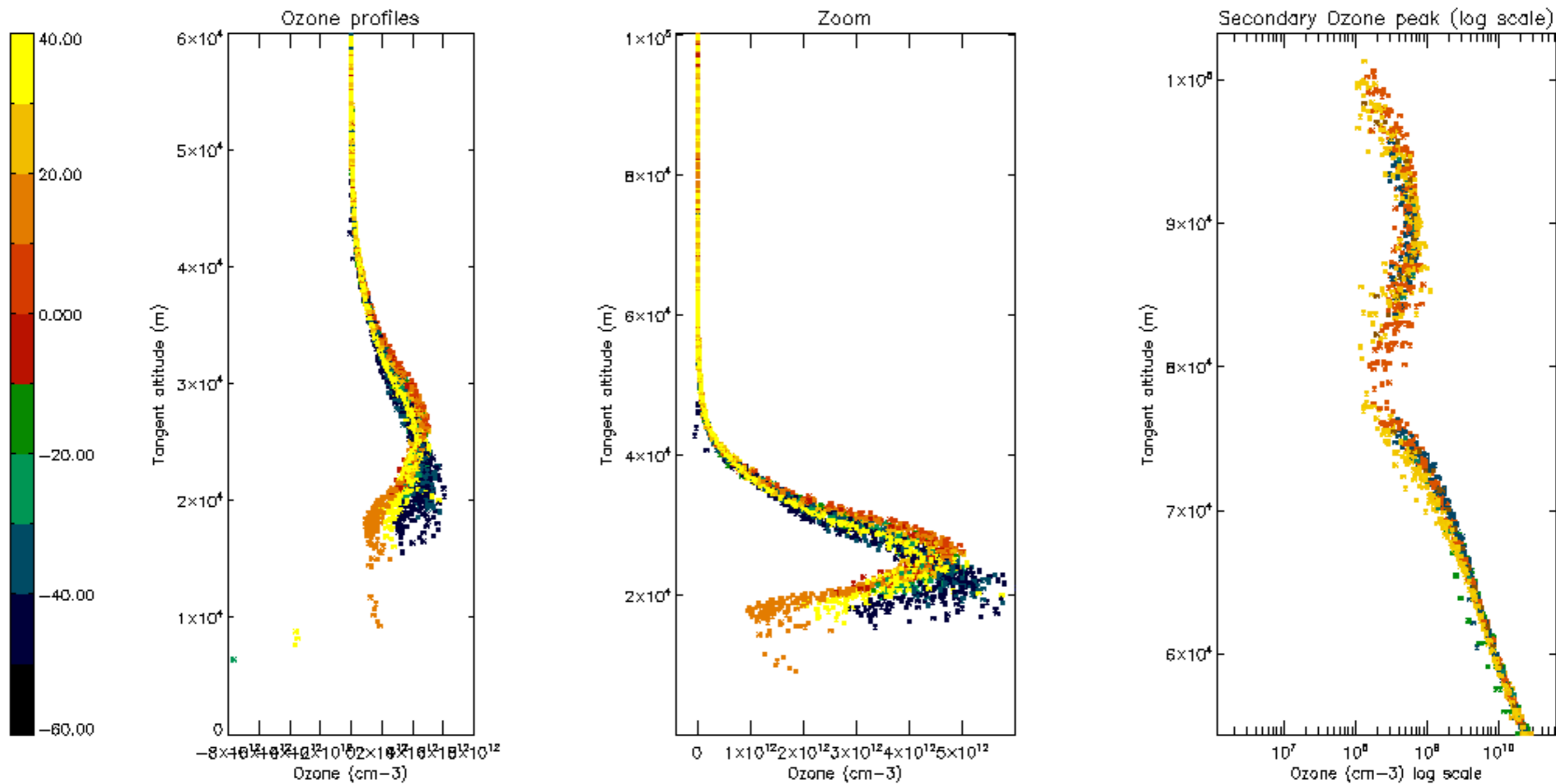


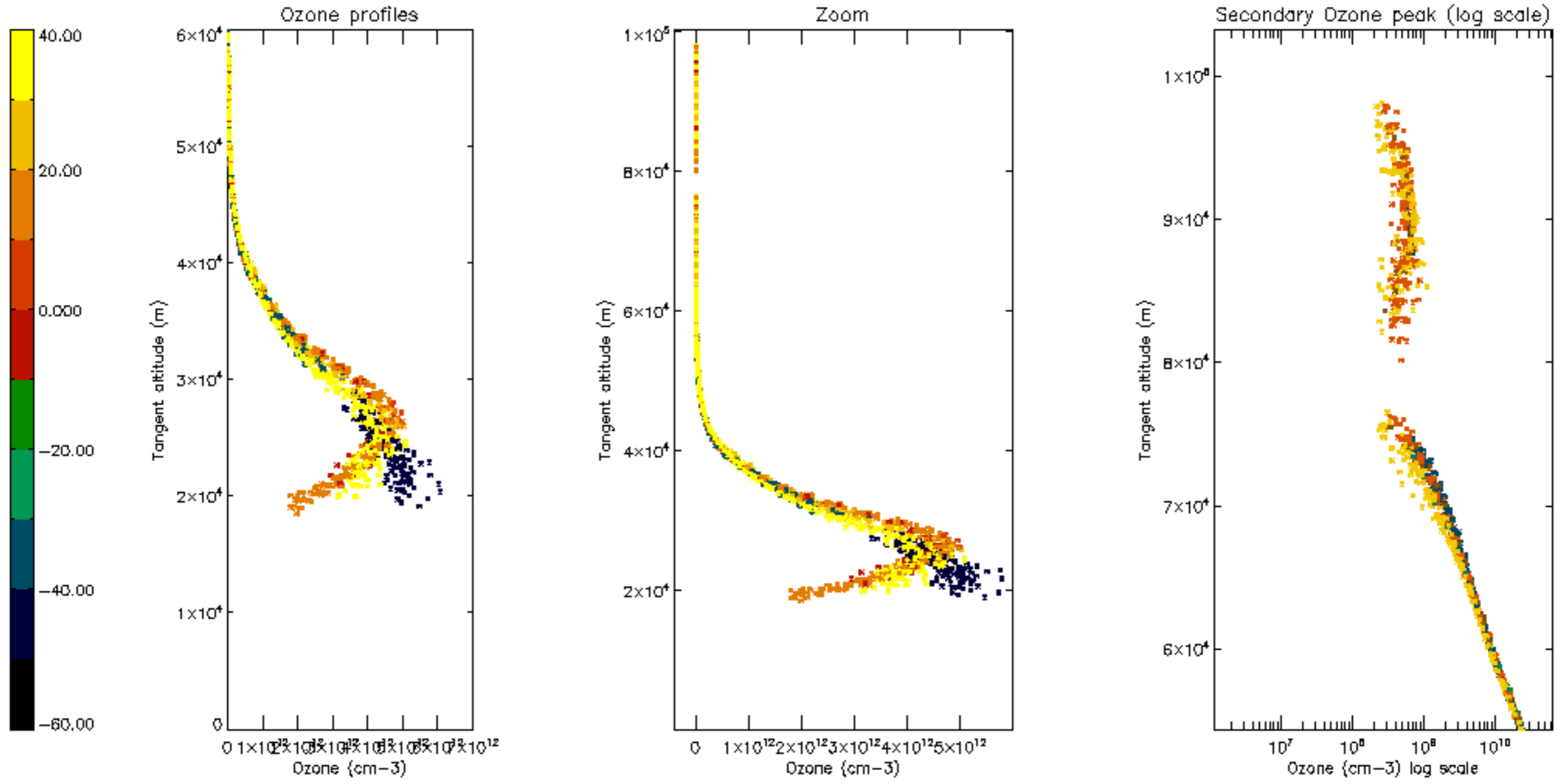
Percentage of saturation errors per profile

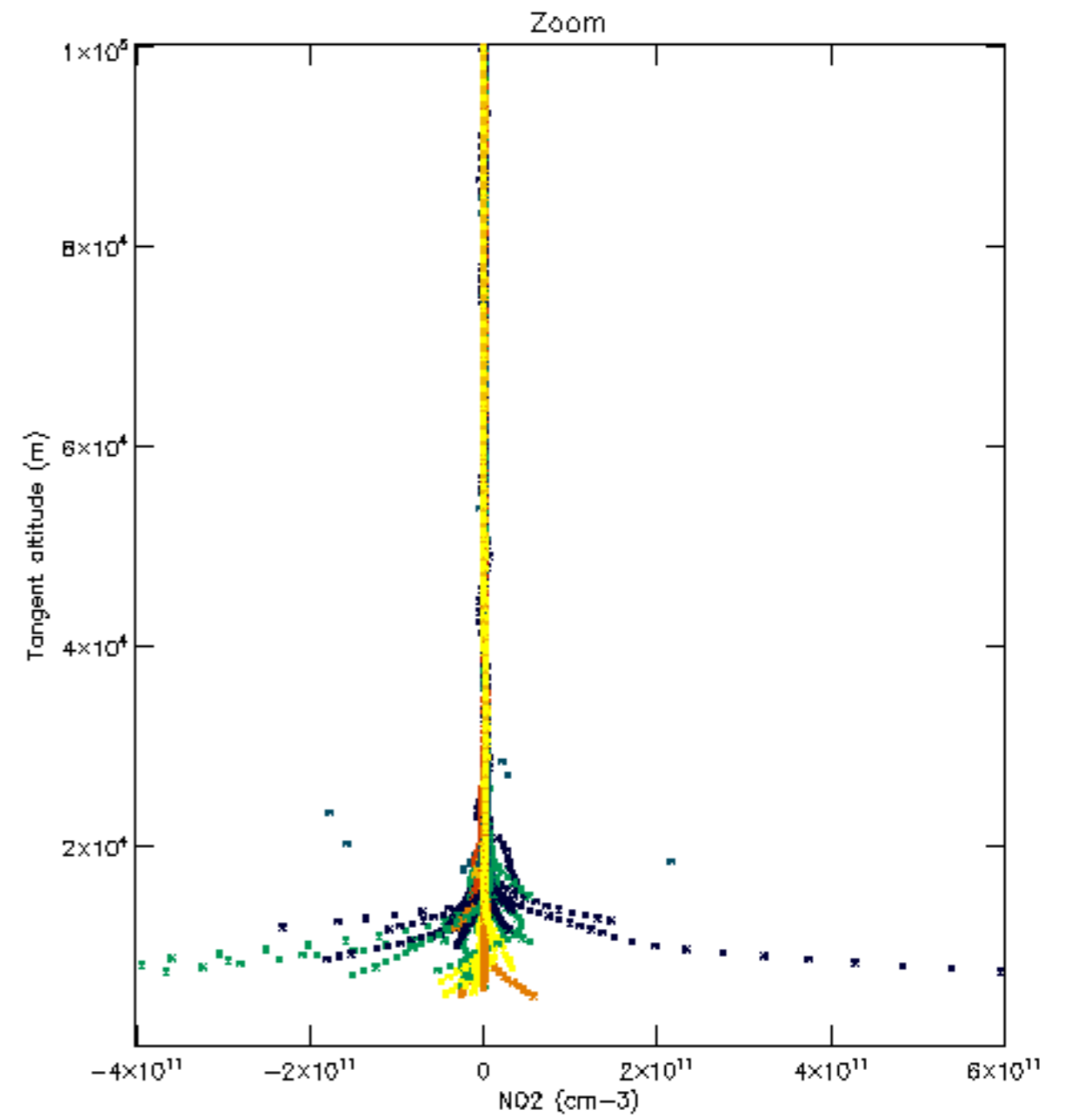
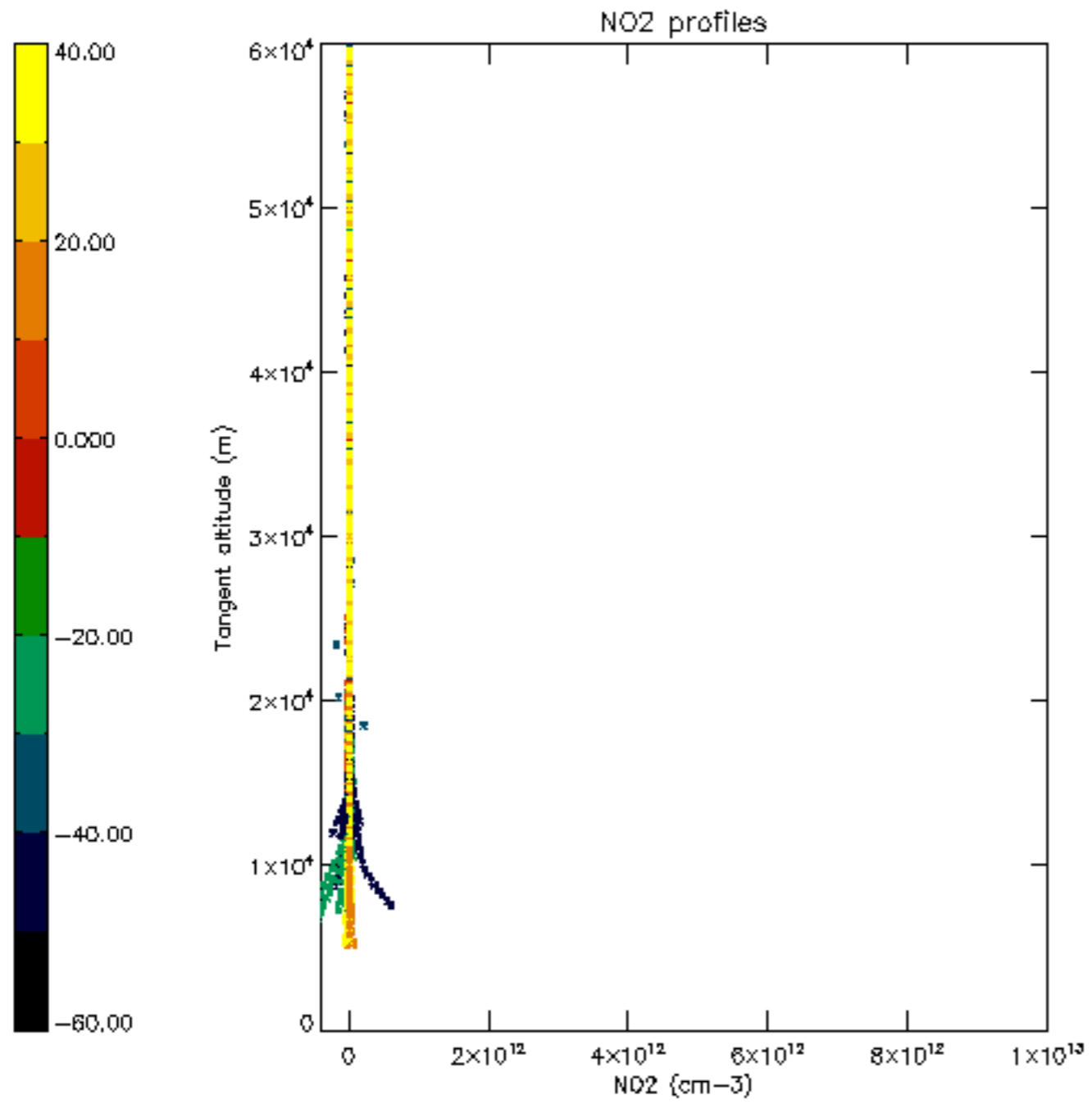


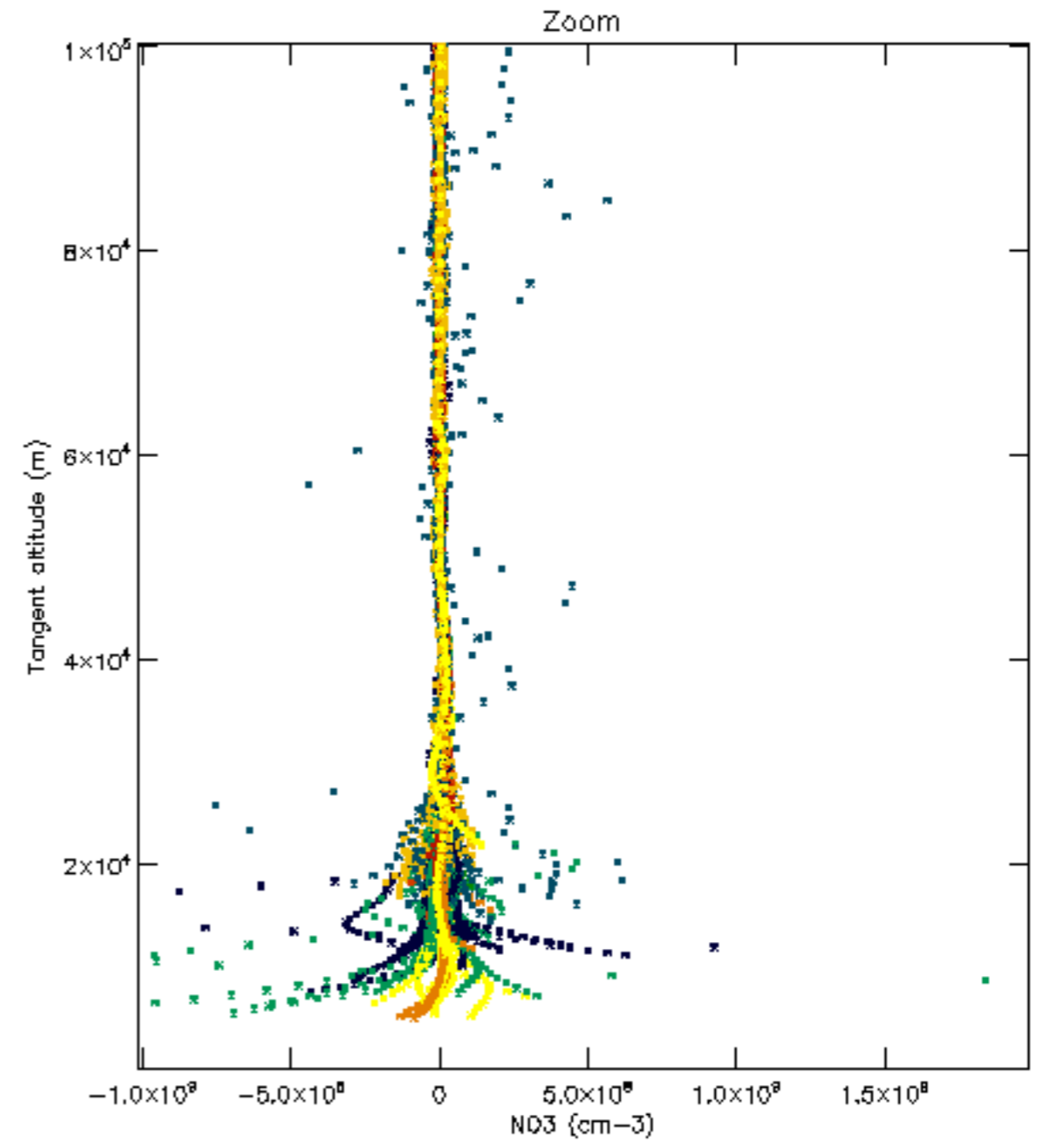
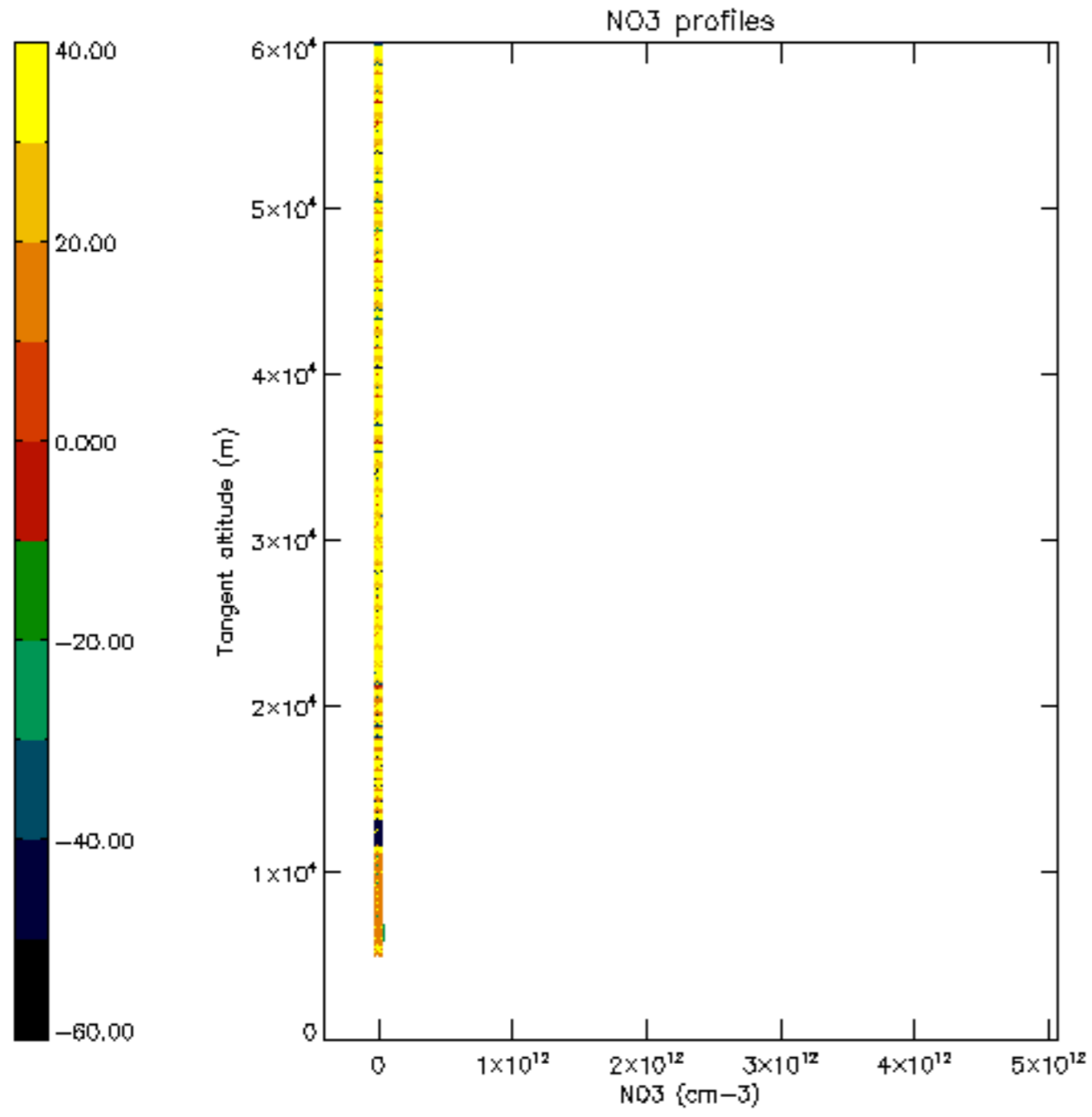


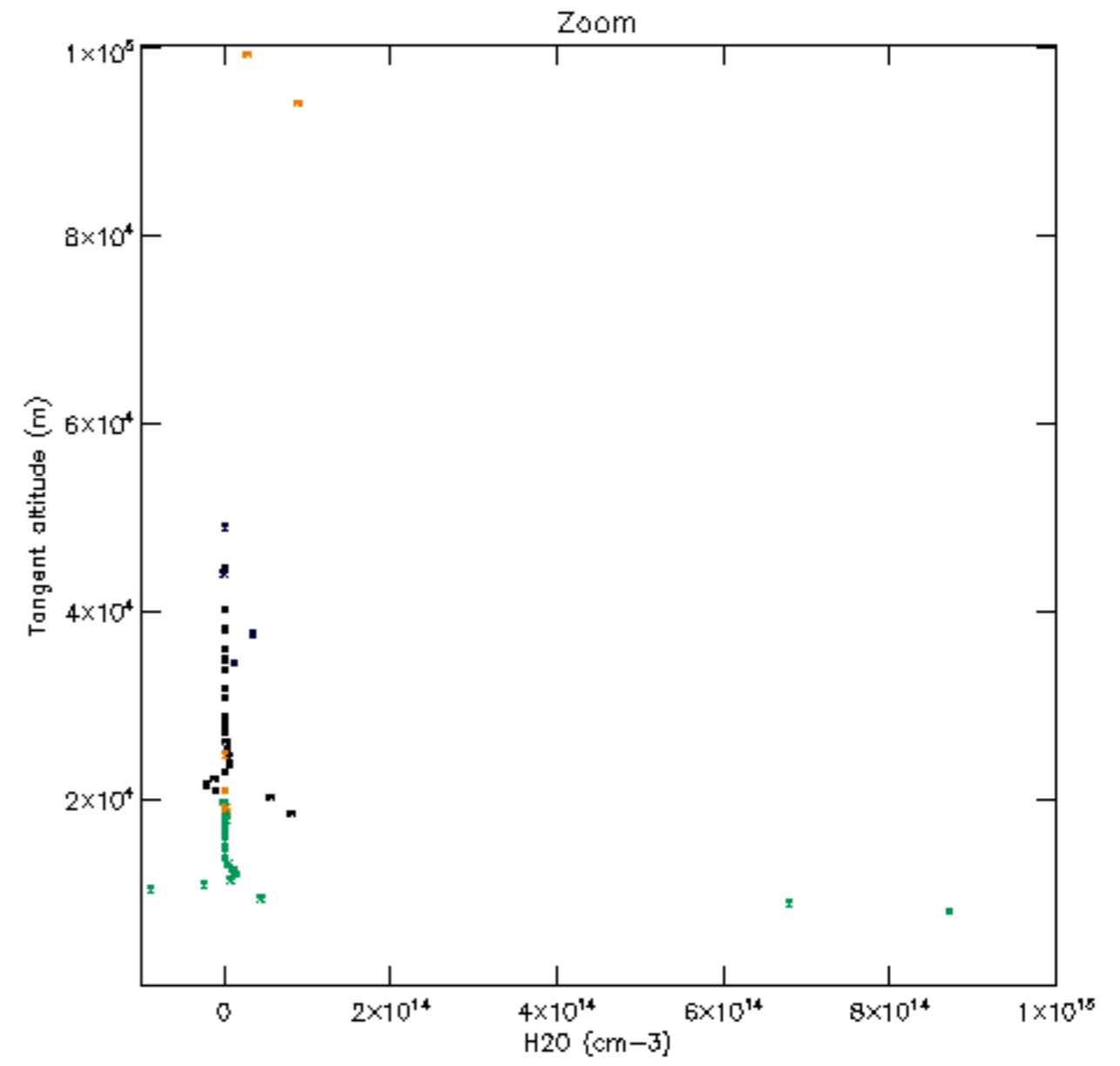
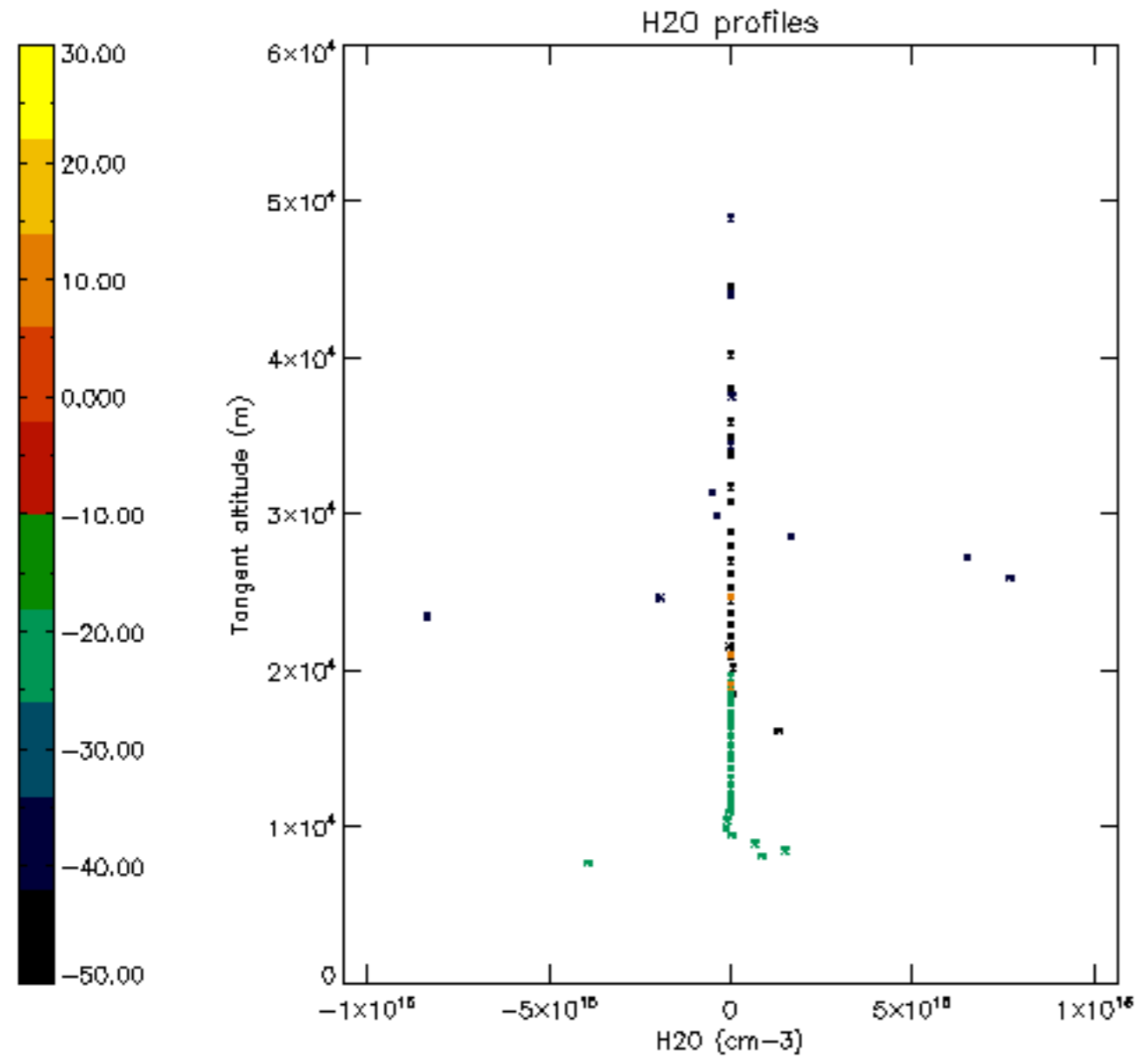


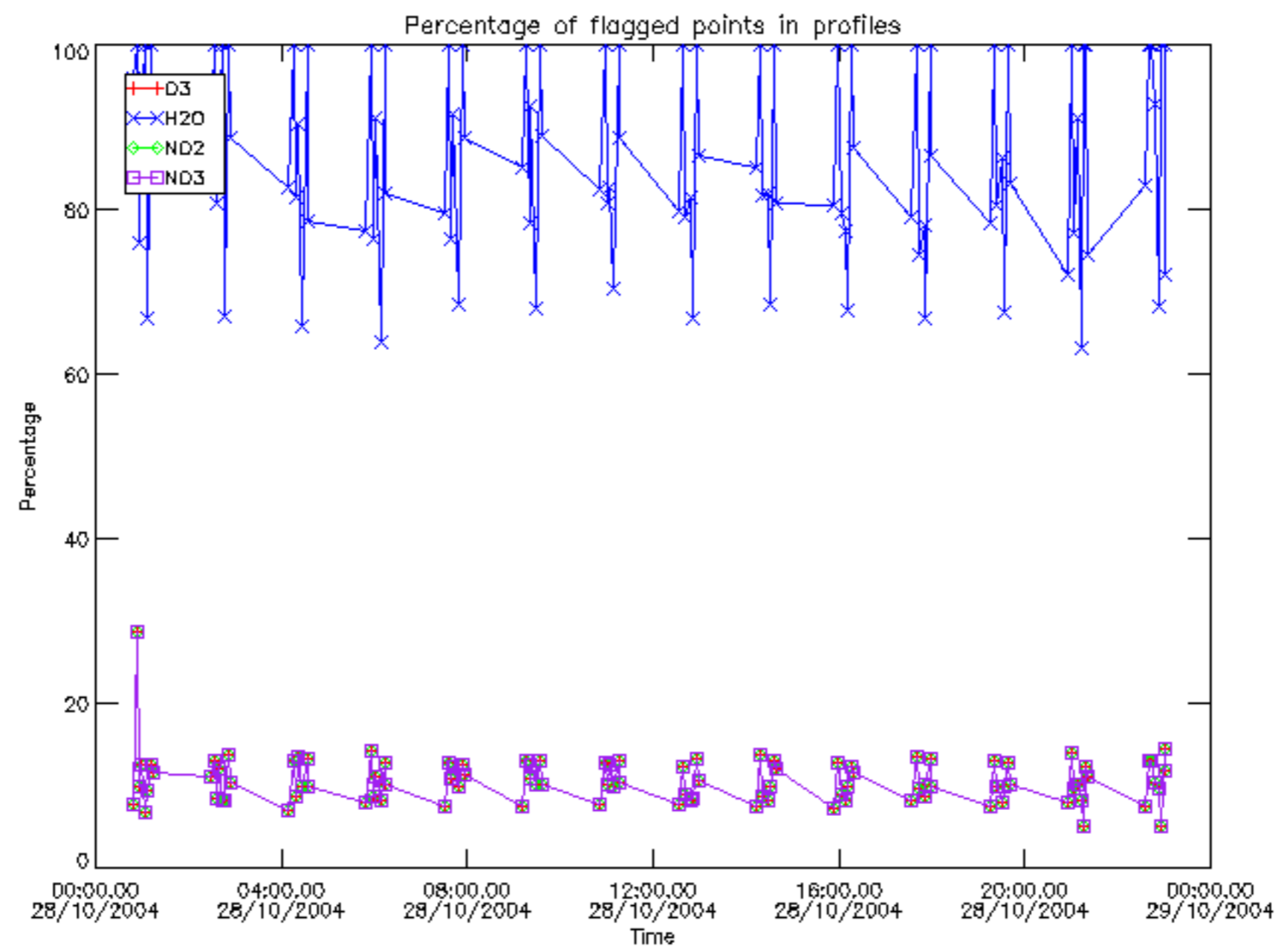




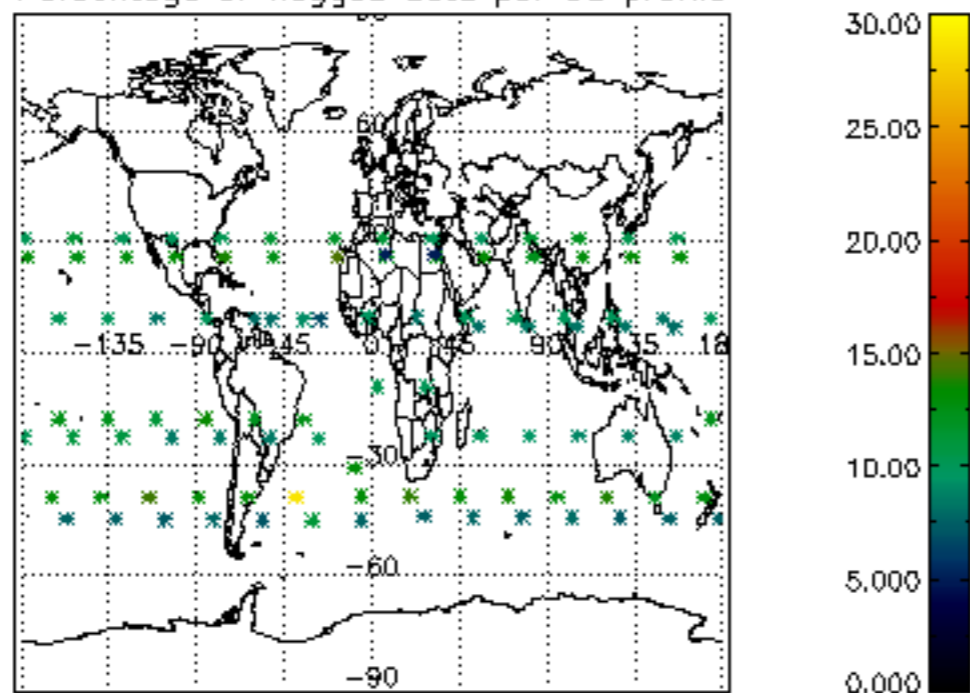




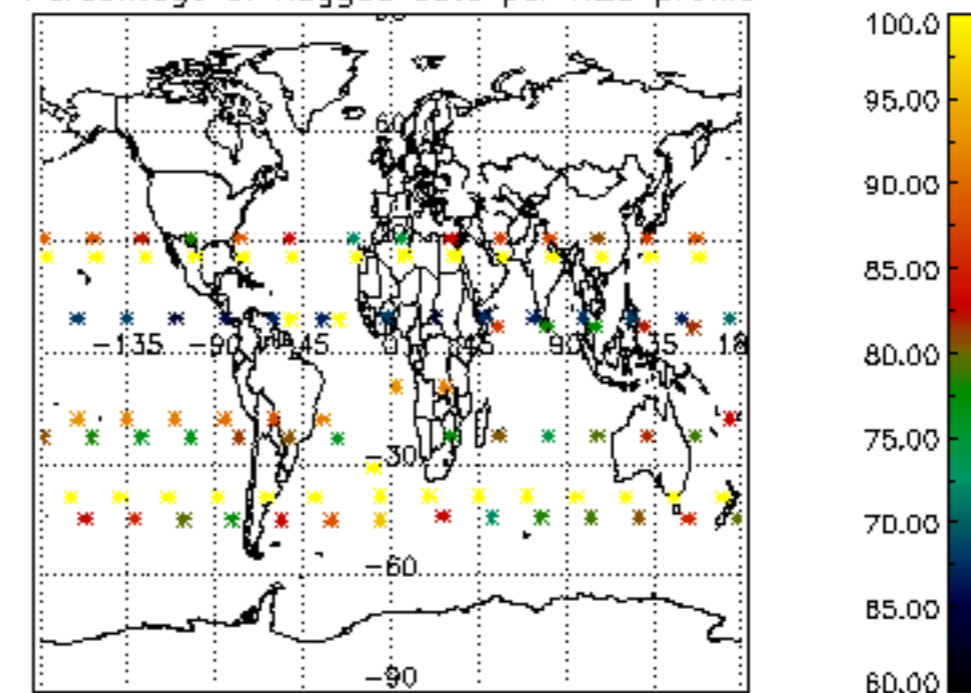




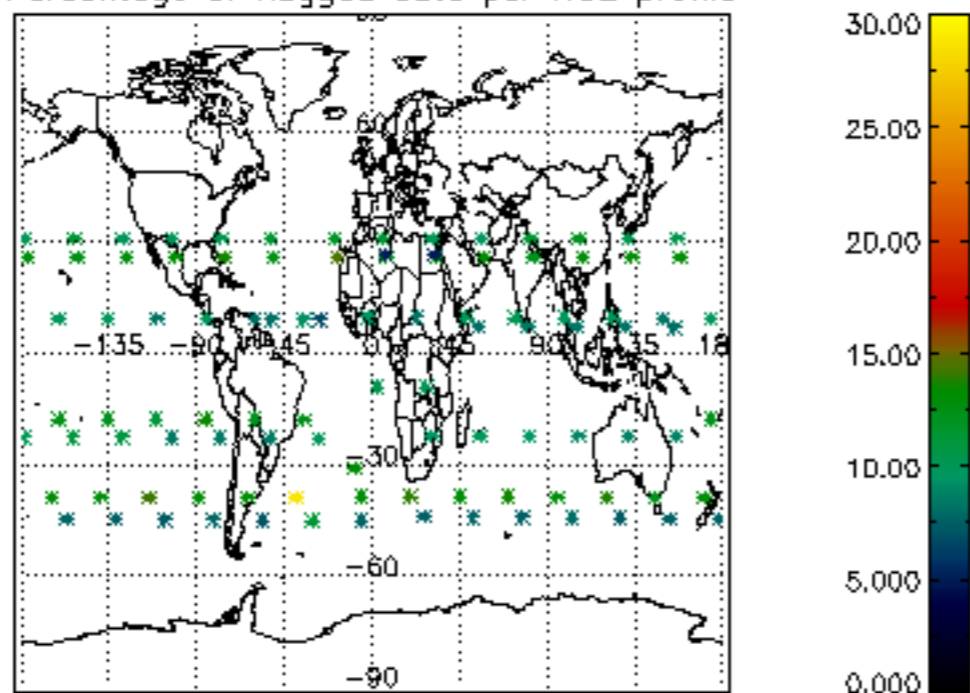
Percentage of flagged data per D3 profile



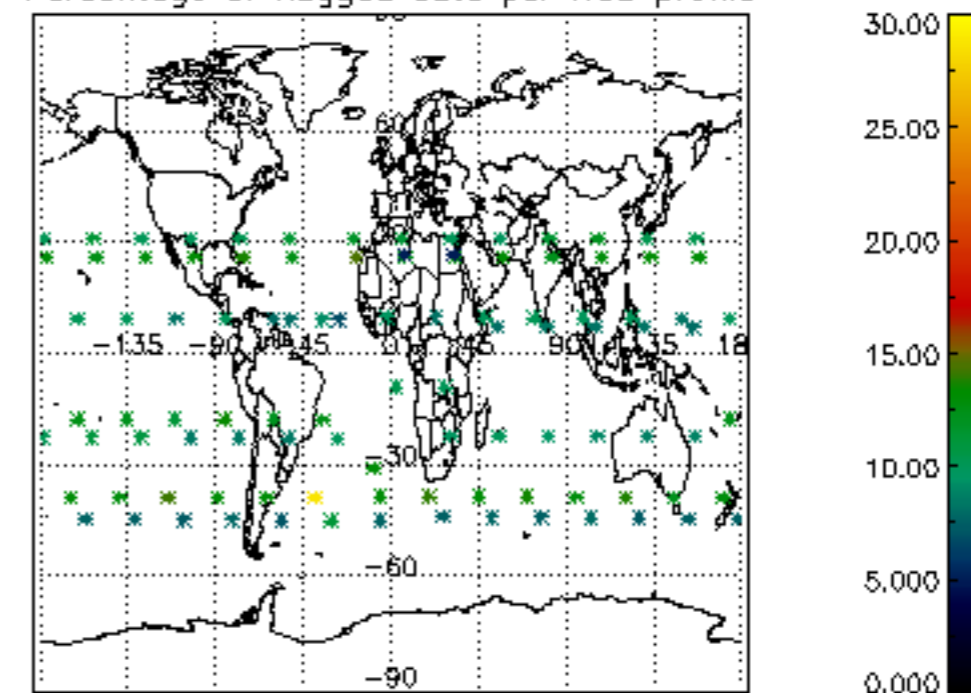
Percentage of flagged data per H2O profile

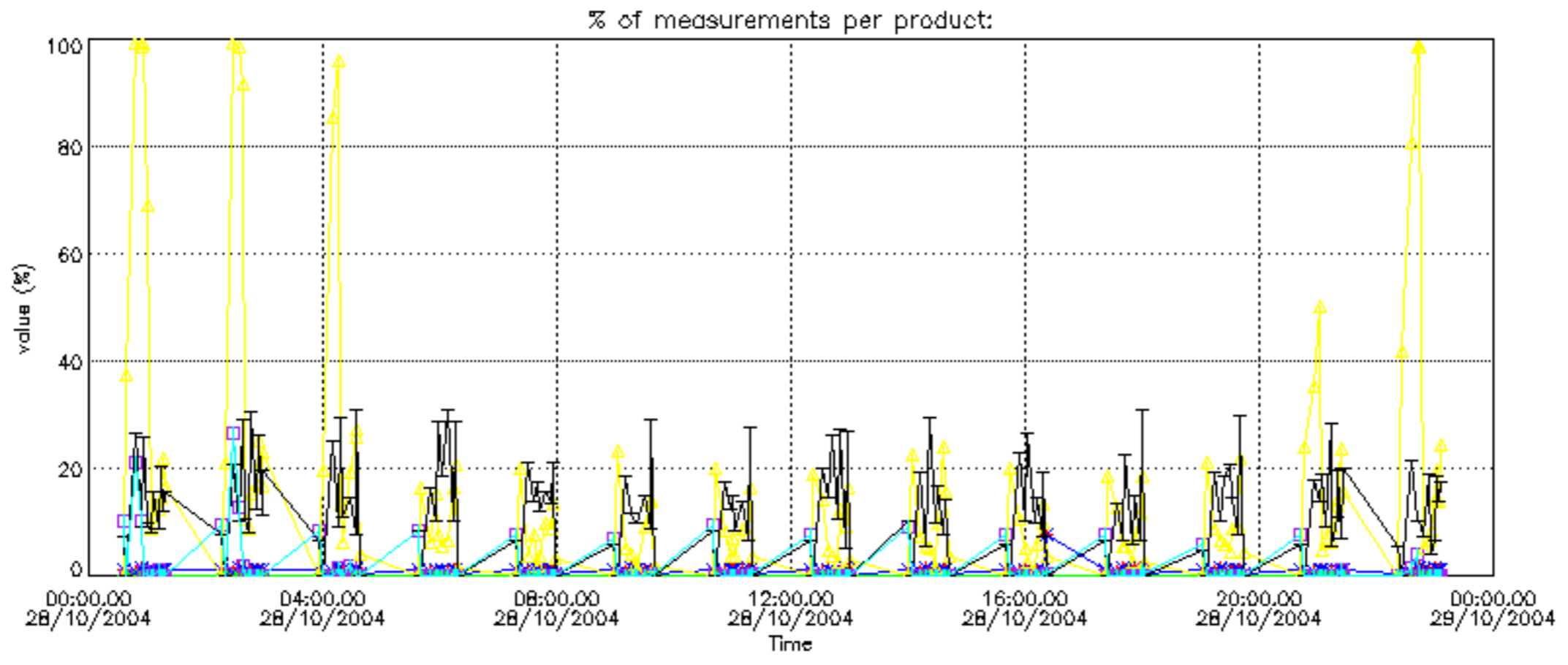


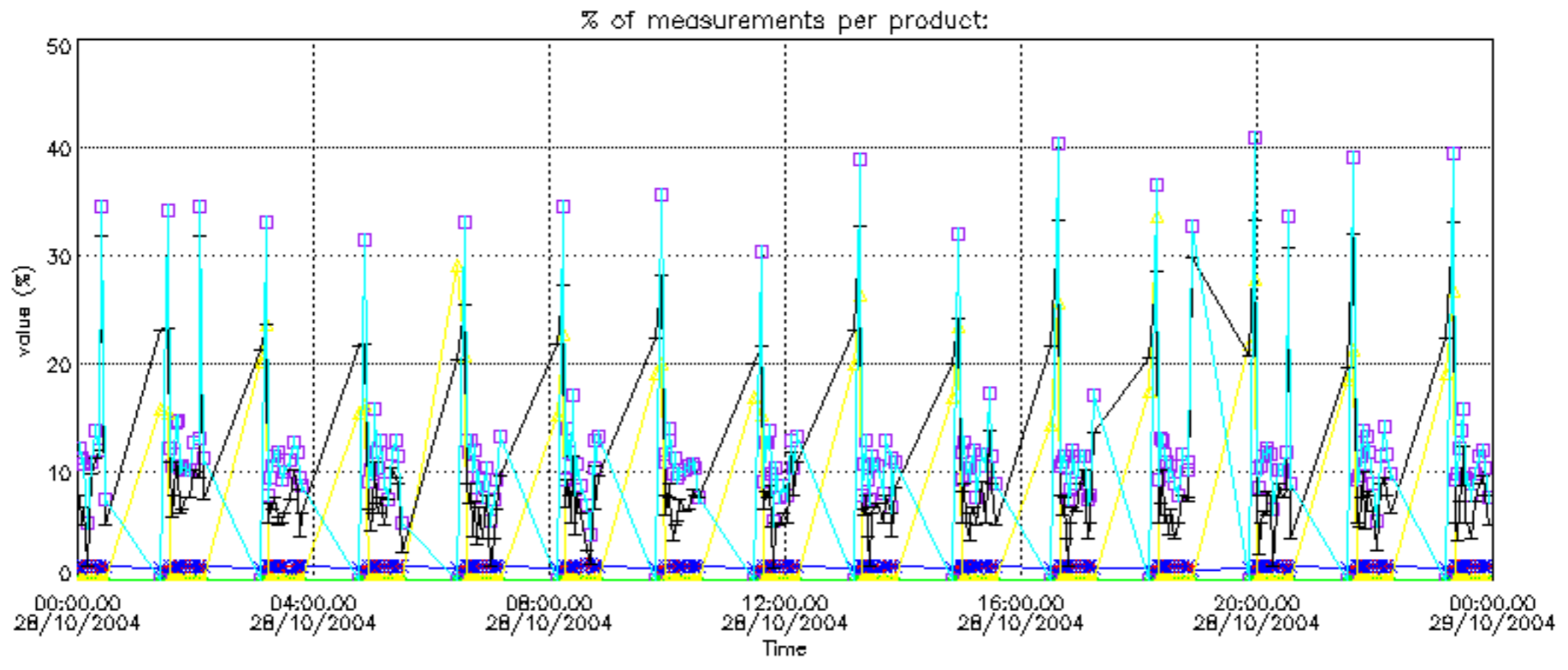
Percentage of flagged data per NO2 profile



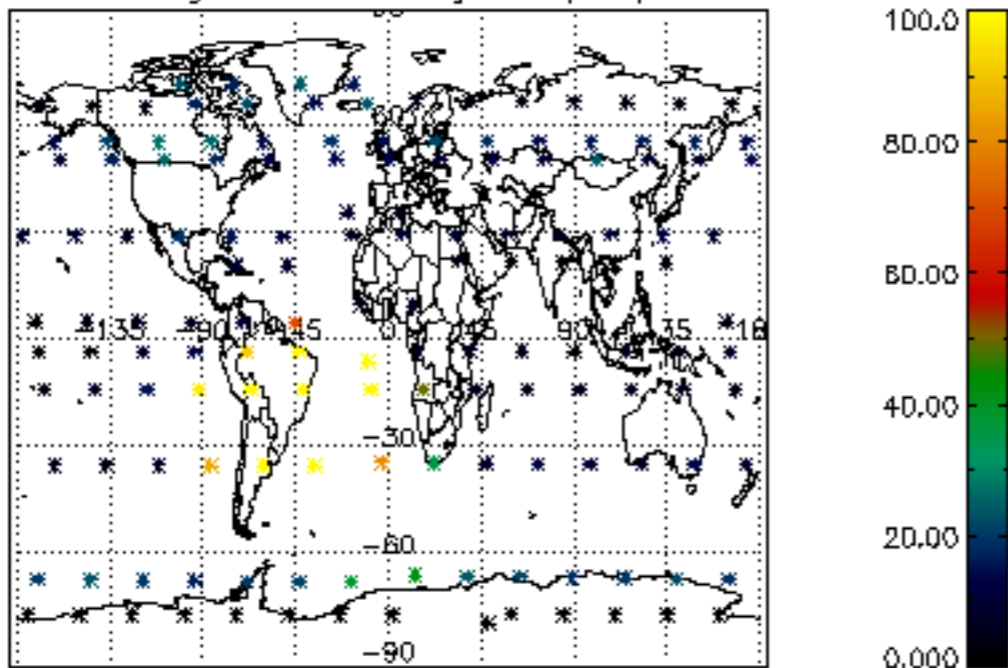
Percentage of flagged data per NO3 profile



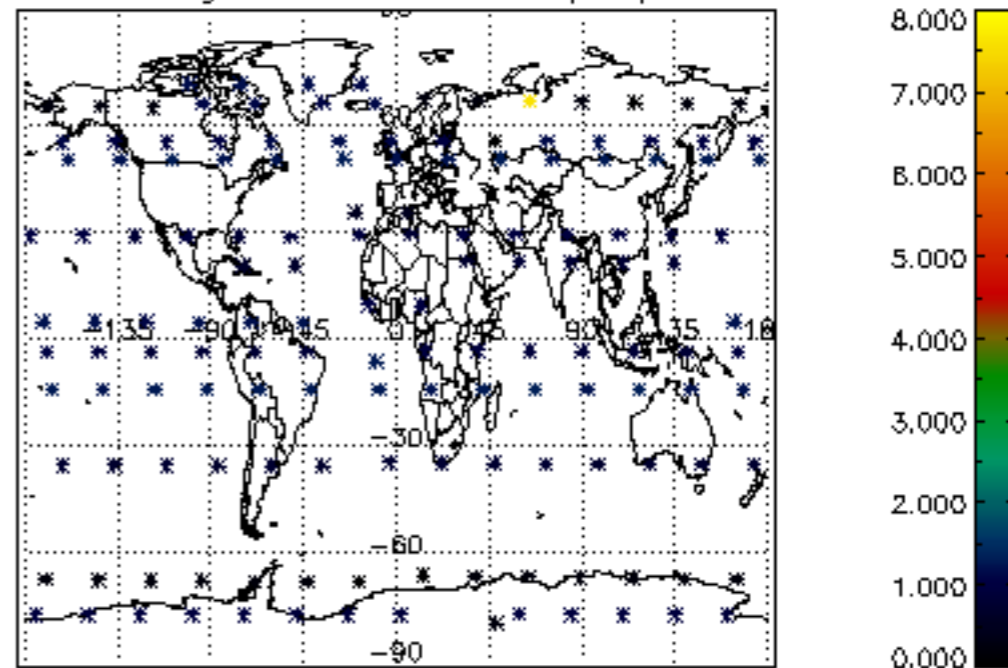




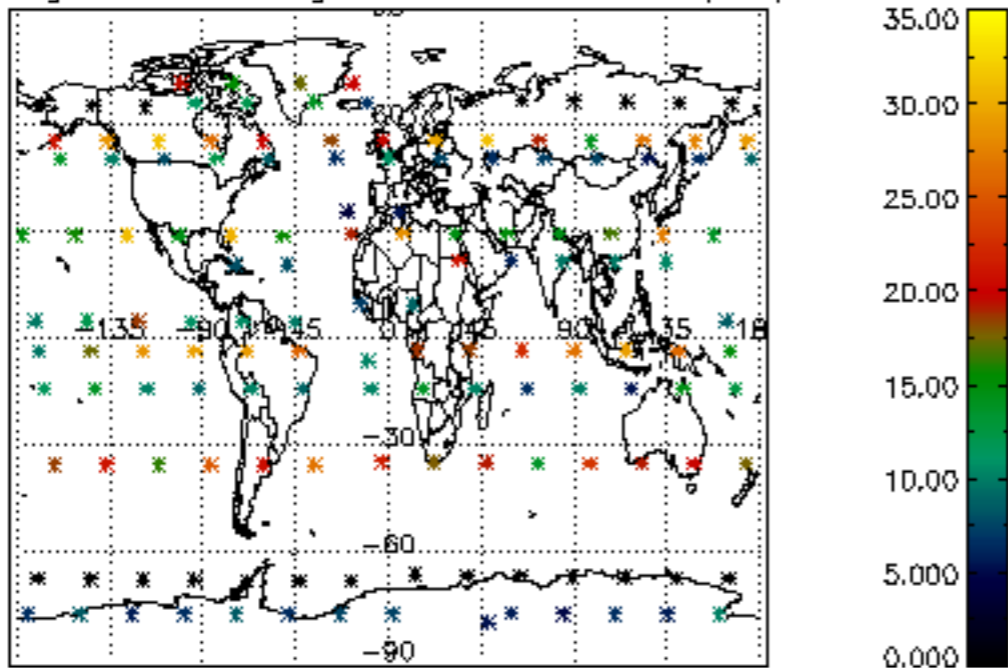
Percentage of cosmic ray hits per profile



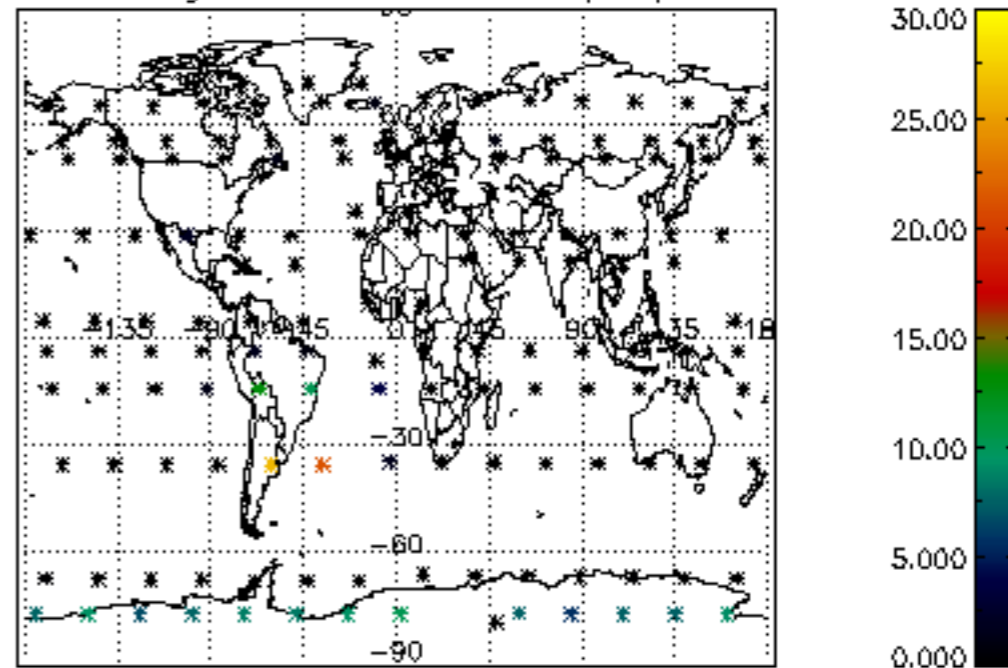
Percentage of datation errors per profile



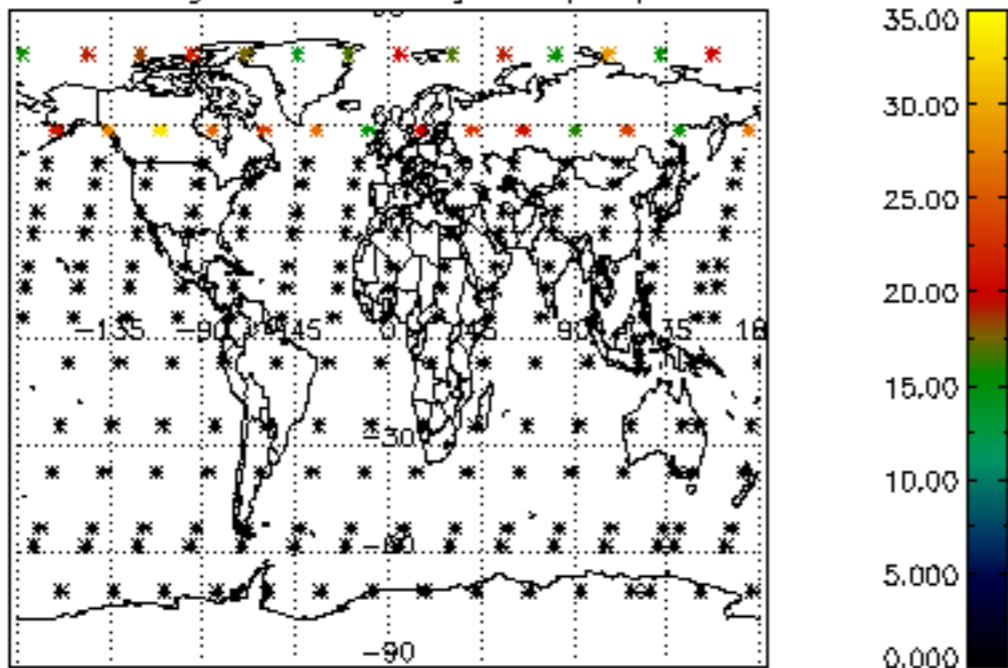
Percentage of star falling outside central band per profile



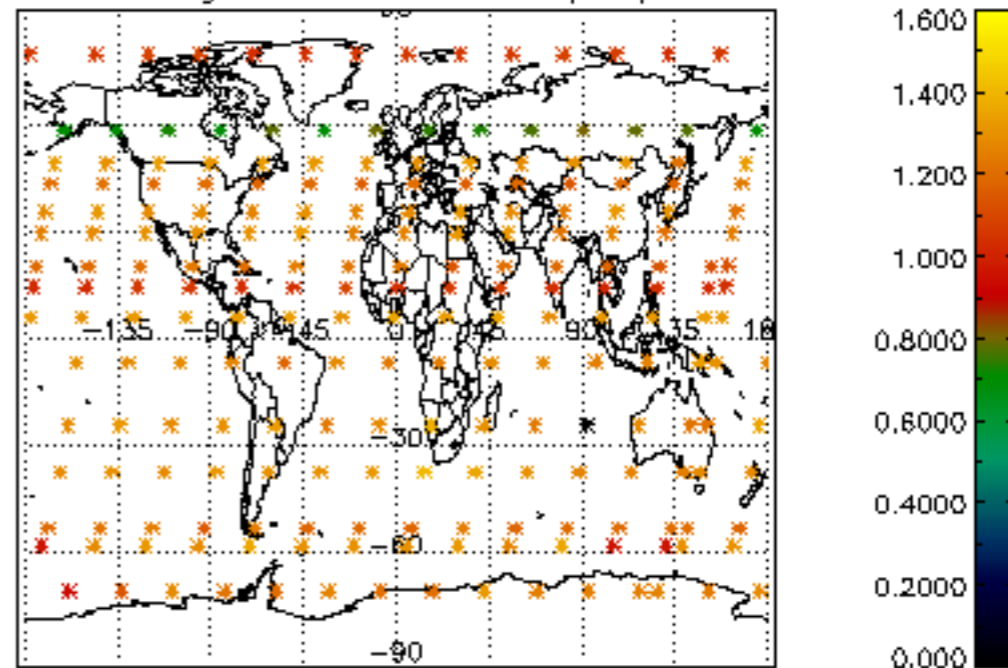
Percentage of saturation errors per profile



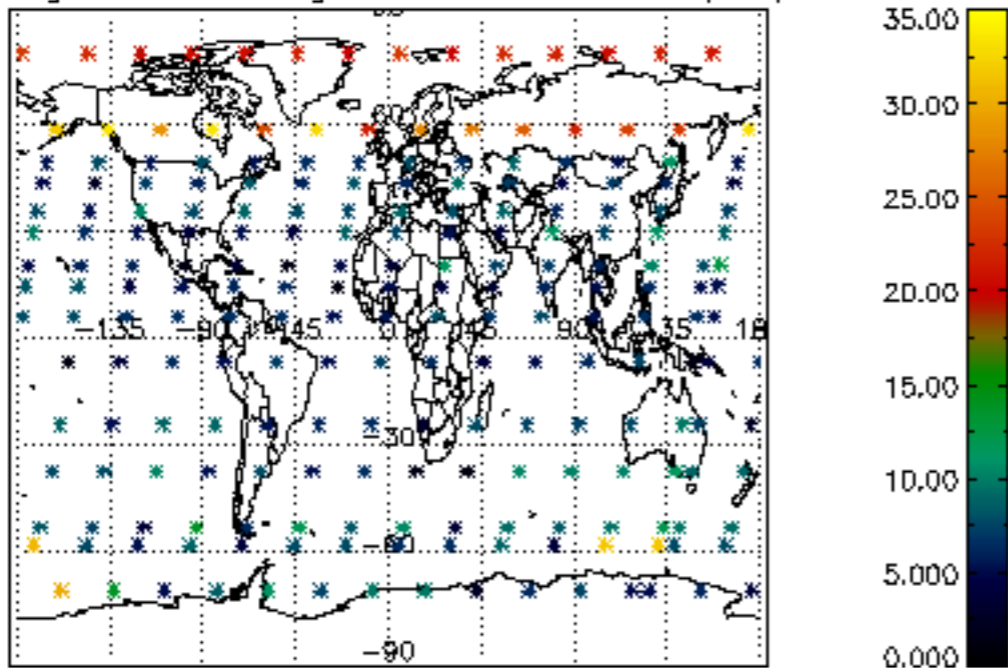
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

