

GOMOS Level 2 Daily Report

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

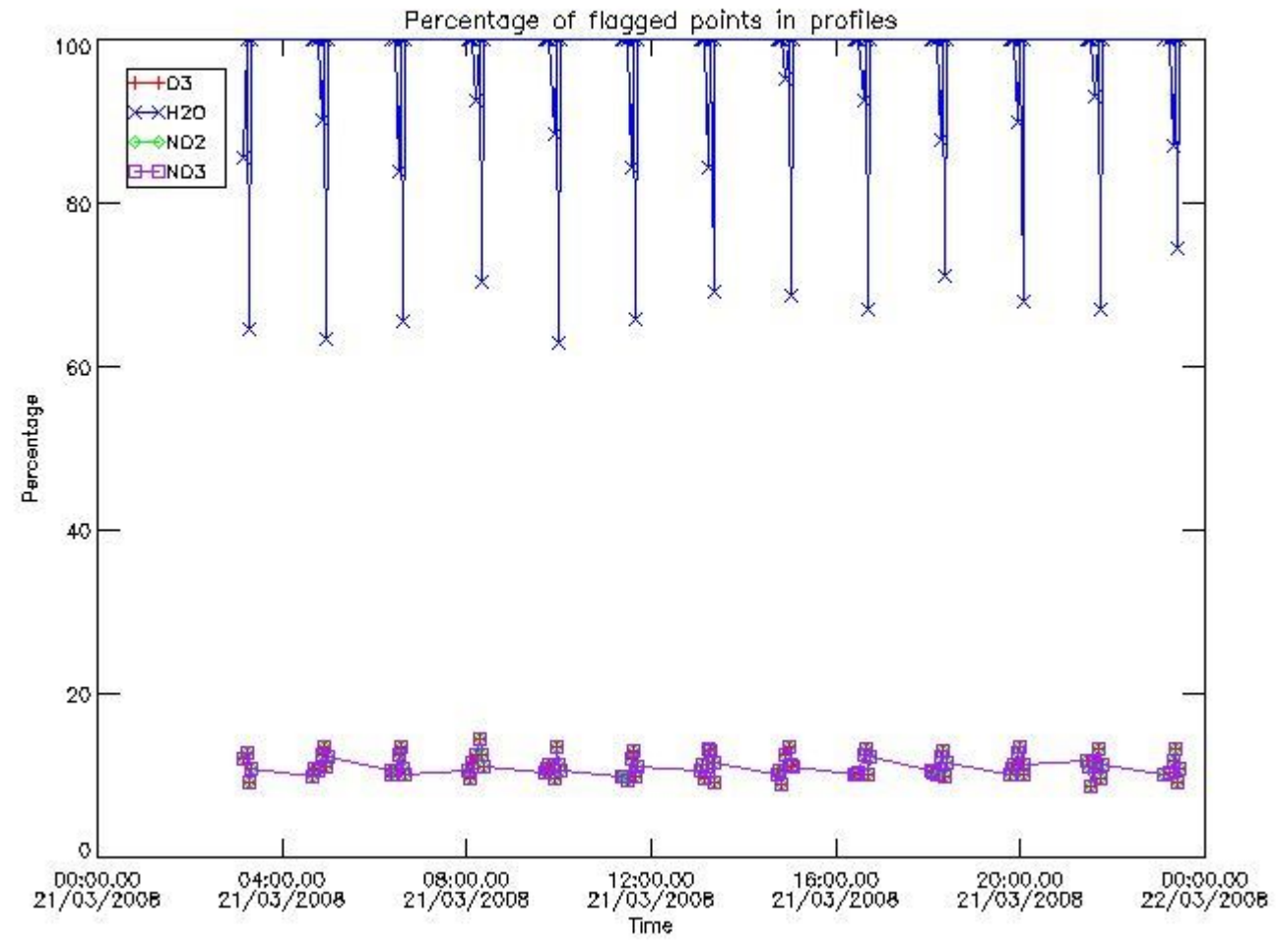
Item	Value
Time of report generation	25APR2013 11:57:48
Data source version	GOMOS/6.01
Start time of products	21-03-2008 (21MAR2008 00:00:00)
Stop time of products	22-03-2008 (22MAR2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	273
Nb of prods with errors	0

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__2PRFIN20080321_031049_000000422067_00047_31664_5464.N1	21-MAR-2008 03:10:49	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	31664	No
2	GOM_NL__2PRFIN20080321_031420_000000402067_00047_31664_5465.N1	21-MAR-2008 03:14:20	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	31664	No
3	GOM_NL__2PRFIN20080321_031703_000000562067_00047_31664_5466.N1	21-MAR-2008 03:17:03	Dark	55.500	4	Alp1Cen	-0.010000	5800.0	111	31664	No
4	GOM_NL__2PRFIN20080321_031919_000000472067_00047_31664_5467.N1	21-MAR-2008 03:19:19	Dark	46.500	78	Alp Lup	2.3040	28000.	93	31664	No
5	GOM_NL__2PRFIN20080321_032116_000000442067_00047_31664_5468.N1	21-MAR-2008 03:21:16	Straylight	43.500	26	Gam Cru	1.6240	2900.0	87	31664	No
6	GOM_NL__2PRFIN20080321_032305_000000412067_00047_31664_5469.N1	21-MAR-2008 03:23:05	Straylight	40.500	64	Gam Cen	2.2000	10600.	81	31664	No
7	GOM_NL__2PRFIN20080321_032526_000000462067_00047_31664_5470.N1	21-MAR-2008 03:25:26	Straylight	45.500	123	lot Cen	2.7500	10200.	91	31664	No
8	GOM_NL__2PRFIN20080321_033051_000000502067_00047_31664_5471.N1	21-MAR-2008 03:30:51	Straylight	50.000	106	9Bet Crv	2.6480	5600.0	100	31664	No
9	GOM_NL__2PRFIN20080321_033317_000000452067_00047_31664_5472.N1	21-MAR-2008 03:33:17	Twilight_stray	45.000	163	7Del Crv	2.9450	11000.	90	31664	No
10	GOM_NL__2PRFIN20080321_034430_000000382067_00047_31664_5473.N1	21-MAR-2008 03:44:30	Bright	37.500	51	41Gam1Leo	2.0100	4500.0	75	31664	No
11	GOM_NL__2PRFIN20080321_035154_000000372067_00047_31664_5474.N1	21-MAR-2008 03:51:54	Bright	36.500	174	52Psi UMa	3.0040	4400.0	73	31664	No
12	GOM_NL__2PRFIN20080321_035509_000000372067_00047_31664_5475.N1	21-MAR-2008 03:55:09	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	31664	No
13	GOM_NL__2PRFIN20080321_035640_000000382067_00047_31664_5476.N1	21-MAR-2008 03:56:40	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	31664	No
14	GOM_NL__2PRFIN20080321_040333_000000422067_00047_31664_5477.N1	21-MAR-2008 04:03:33	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	31664	No
15	GOM_NL__2PRFIN20080321_041209_000000372067_00047_31664_5478.N1	21-MAR-2008 04:12:09	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	31664	No
16	GOM_NL__2PRFIN20080321_041717_000000392067_00047_31664_5479.N1	21-MAR-2008 04:17:17	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	31664	No
17	GOM_NL__2PRFIN20080321_041853_000000372067_00047_31664_5480.N1	21-MAR-2008 04:18:53	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	31664	No
18	GOM_NL__2PRFIN20080321_042041_000000382067_00047_31664_5481.N1	21-MAR-2008 04:20:41	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	31664	No
19	GOM_NL__2PRFIN20080321_042927_000000562067_00047_31664_5482.N1	21-MAR-2008 04:29:27	Twilight_stray	55.500	11	53Alp Aql	0.76500	8000.0	111	31664	No
20	GOM_NL__2PRFIN20080321_044009_000000522067_00047_31664_5483.N1	21-MAR-2008 04:40:09	Dark	51.500	155	41Pi Sgr	2.9000	6600.0	103	31664	No
21	GOM_NL__2PRFIN20080321_044216_000000472067_00047_31664_5484.N1	21-MAR-2008 04:42:16	Dark	46.500	57	34Sig Sgr	2.0660	26000.	93	31664	No
22	GOM_NL__2PRFIN20080321_044549_000000482067_00047_31664_5485.N1	21-MAR-2008 04:45:49	Dark	48.000	38	20Eps Sgr	1.8360	11000.	96	31664	No
23	GOM_NL__2PRFIN20080321_045125_000000412067_00048_31665_5628.N1	21-MAR-2008 04:51:25	Dark	41.000	141	Bet Ara	2.8400	4600.0	82	31665	No
24	GOM_NL__2PRFIN20080321_045456_000000382067_00048_31665_5629.N1	21-MAR-2008 04:54:56	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	31665	No
25	GOM_NL__2PRFIN20080321_045740_000000462067_00048_31665_5630.N1	21-MAR-2008 04:57:40	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	31665	No
26	GOM_NL__2PRFIN20080321_045956_000000462067_00048_31665_5631.N1	21-MAR-2008 04:59:56	Dark	46.000	78	Alp Lup	2.3040	28000.	92	31665	No
27	GOM_NL__2PRFIN20080321_050152_000000472067_00048_31665_5632.N1	21-MAR-2008 05:01:52	Straylight	47.000	26	Gam Cru	1.6240	2900.0	94	31665	No
28	GOM_NL__2PRFIN20080321_050341_000000392067_00048_31665_5633.N1	21-MAR-2008 05:03:41	Straylight	39.000	64	Gam Cen	2.2000	10600.	78	31665	No
29	GOM_NL__2PRFIN20080321_050602_000000462067_00048_31665_5634.N1	21-MAR-2008 05:06:02	Straylight	45.500	123	lot Cen	2.7500	10200.	91	31665	No
30	GOM_NL__2PRFIN20080321_051128_000000502067_00048_31665_5635.N1	21-MAR-2008 05:11:28	Straylight	49.500	106	9Bet Crv	2.6480	5600.0	99	31665	No
31	GOM_NL__2PRFIN20080321_051353_000000502067_00048_31665_5636.N1	21-MAR-2008 05:13:53	Twilight_stray	49.500	163	7Del Crv	2.9450	11000.	99	31665	No
32	GOM_NL__2PRFIN20080321_052506_000000362067_00048_31665_5637.N1	21-MAR-2008 05:25:06	Bright	36.000	51	41Gam1Leo	2.0100	4500.0	72	31665	No
33	GOM_NL__2PRFIN20080321_053229_000000392067_00048_31665_5638.N1	21-MAR-2008 05:32:29	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	31665	No
34	GOM_NL__2PRFIN20080321_053545_000000372067_00048_31665_5639.N1	21-MAR-2008 05:35:45	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	31665	No
35	GOM_NL__2PRFIN20080321_053716_000000392067_00048_31665_5640.N1	21-MAR-2008 05:37:16	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	31665	No
36	GOM_NL__2PRFIN20080321_054409_000000402067_00048_31665_5641.N1	21-MAR-2008 05:44:09	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	31665	No
37	GOM_NL__2PRFIN20080321_055245_000000372067_00048_31665_5642.N1	21-MAR-2008 05:52:45	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	31665	No
38	GOM_NL__2PRFIN20080321_055753_000000392067_00048_31665_5643.N1	21-MAR-2008 05:57:53	Bright	38.500	19	50Alp Cyg	1.2460	10500.	77	31665	No
39	GOM_NL__2PRFIN20080321_055929_000000382067_00048_31665_5644.N1	21-MAR-2008 05:59:29	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	31665	No
40	GOM_NL__2PRFIN20080321_060117_000000372067_00048_31665_5645.N1	21-MAR-2008 06:01:17	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	31665	No
41	GOM_NL__2PRFIN20080321_061004_000000562067_00048_31665_5646.N1	21-MAR-2008 06:10:04	Twilight_stray	55.500	11	53Alp Aql	0.76500	8000.0	111	31665	No
42	GOM_NL__2PRFIN20080321_062046_000000492067_00048_31665_5647.N1	21-MAR-2008 06:20:46	Dark	48.500	155	41Pi Sgr	2.9000	6600.0	97	31665	No

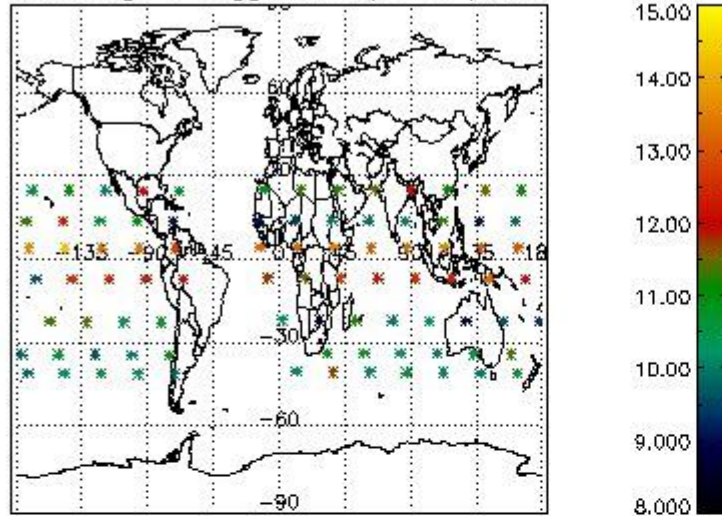
the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

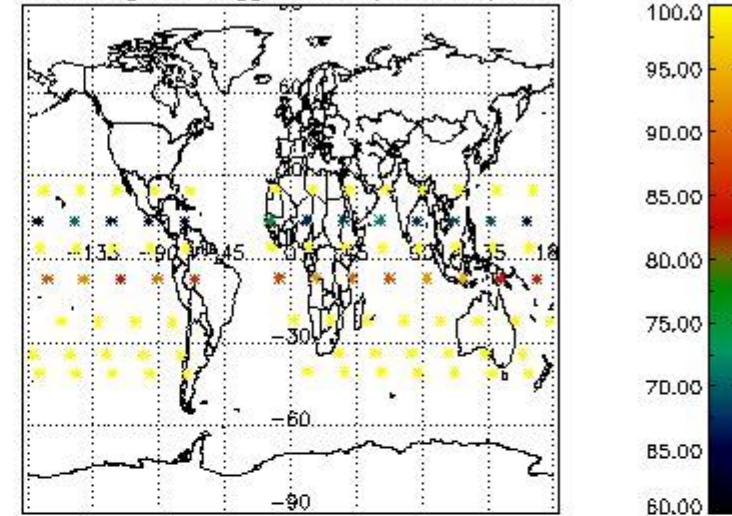


3.2 Plot quality information per product (world map)

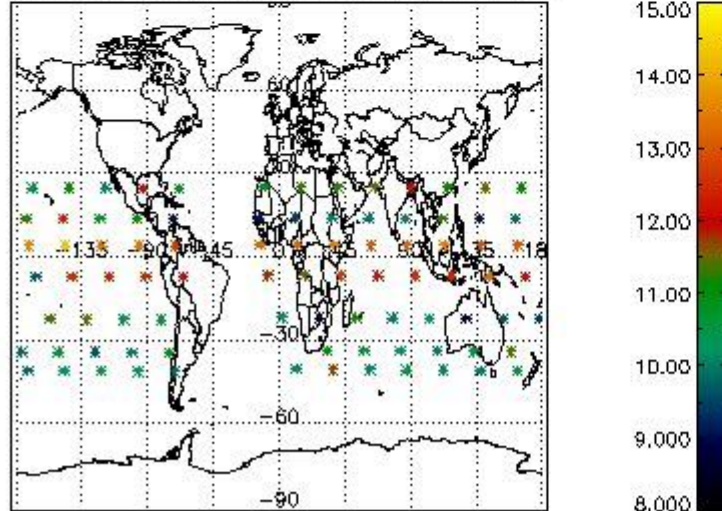
Percentage of flagged data per O3 profile



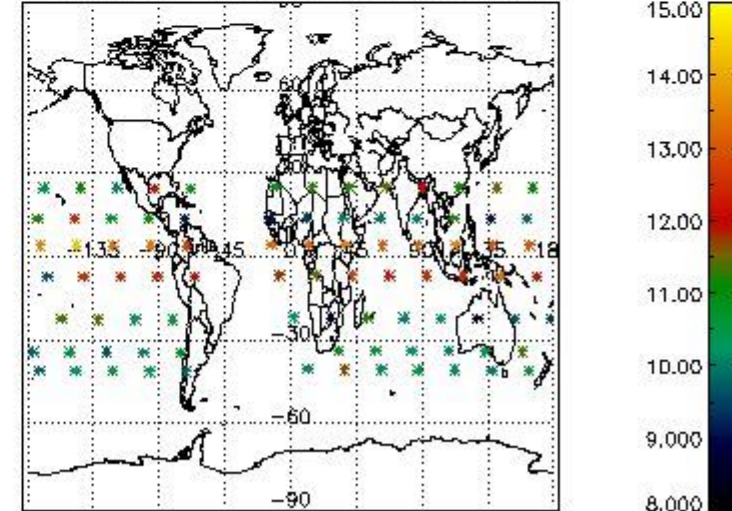
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

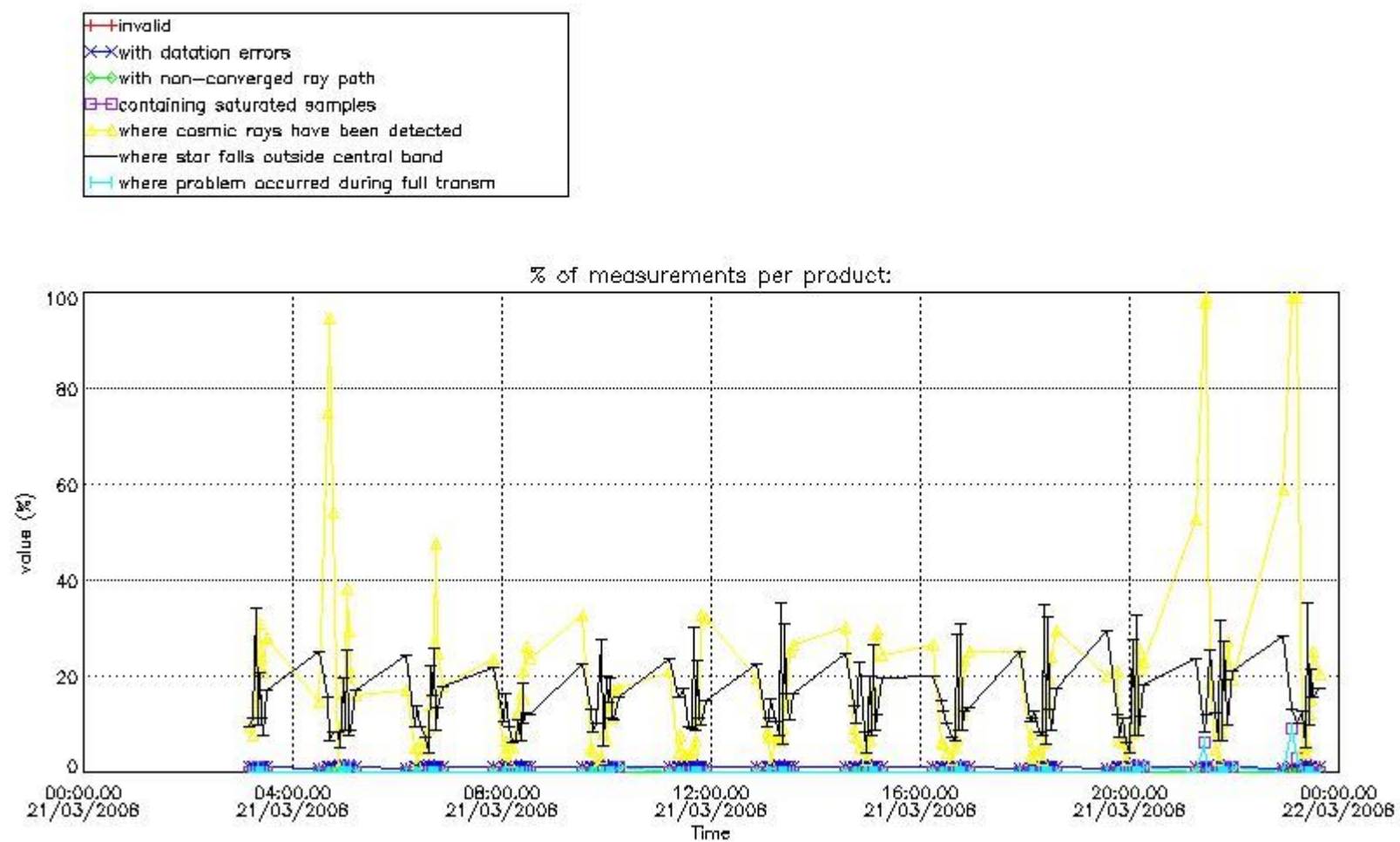


4. Level 1 quality information per product

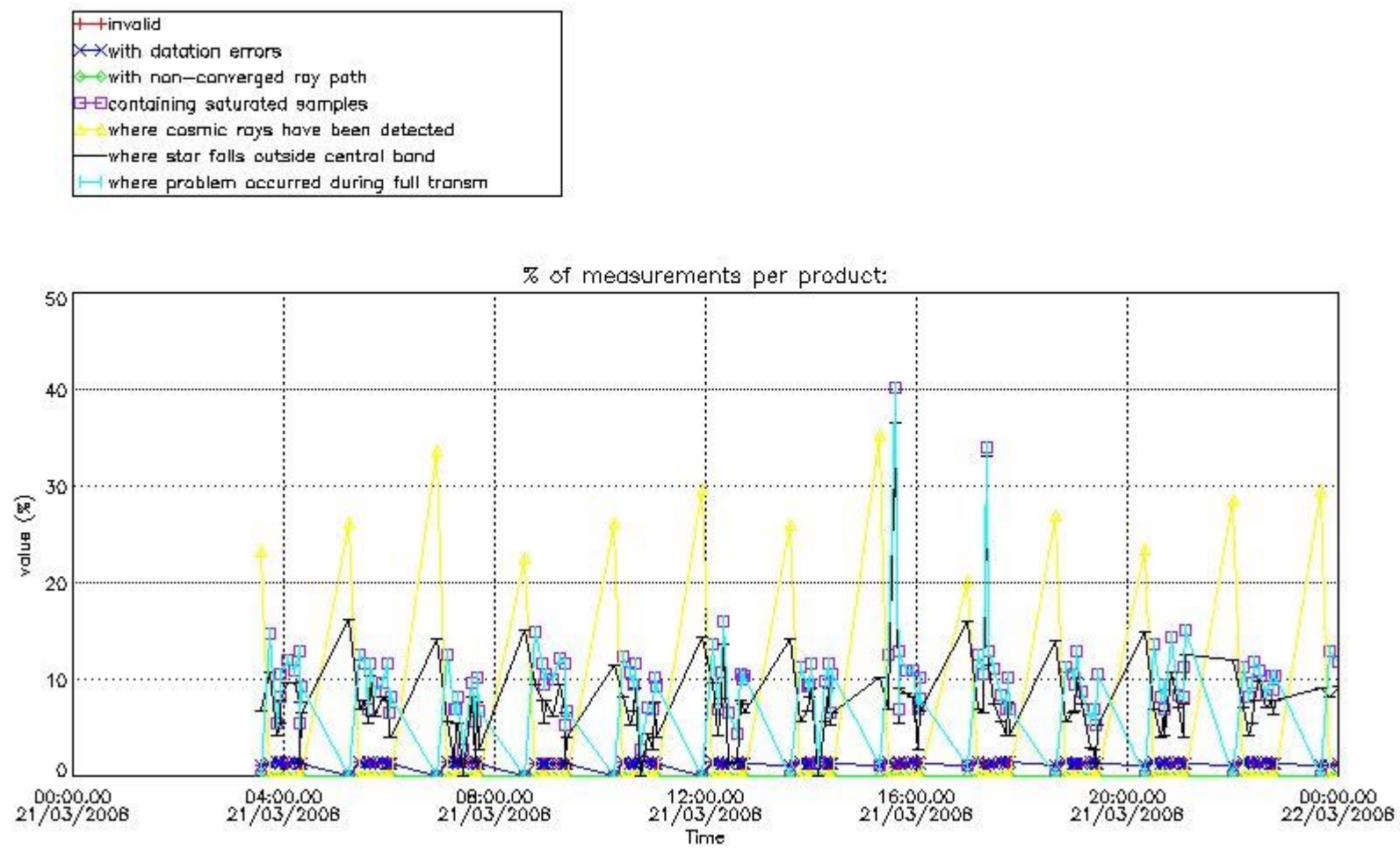
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

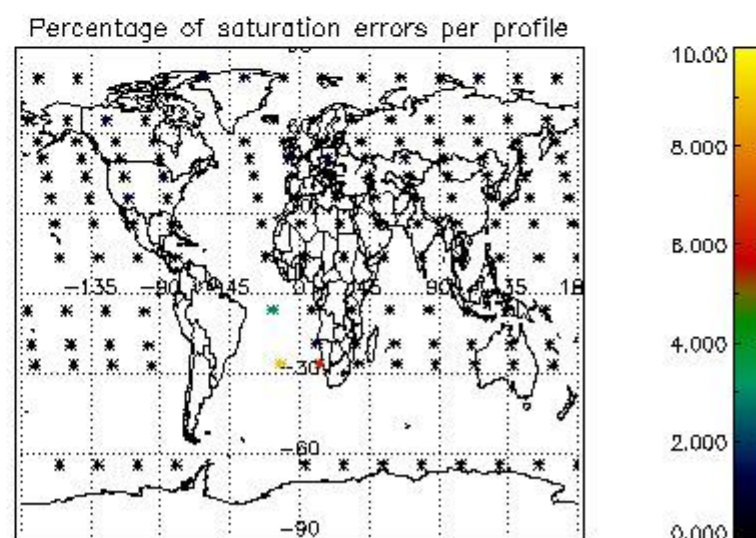
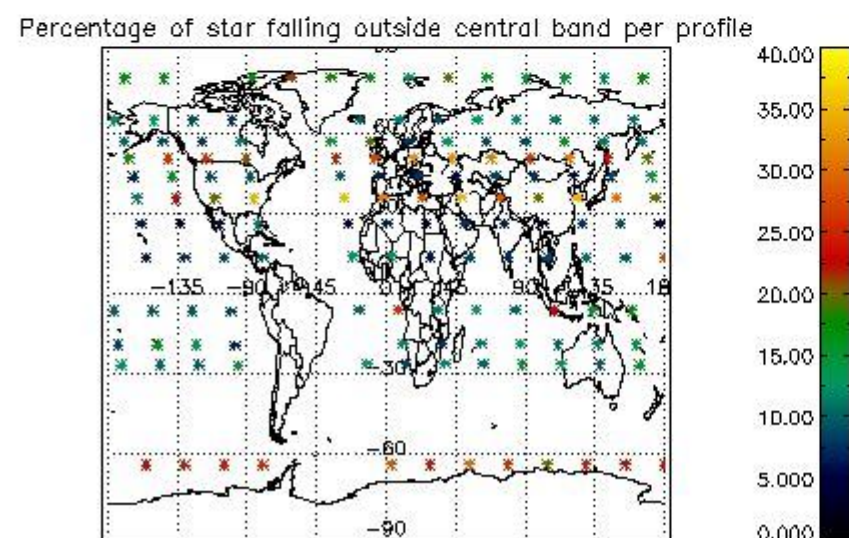
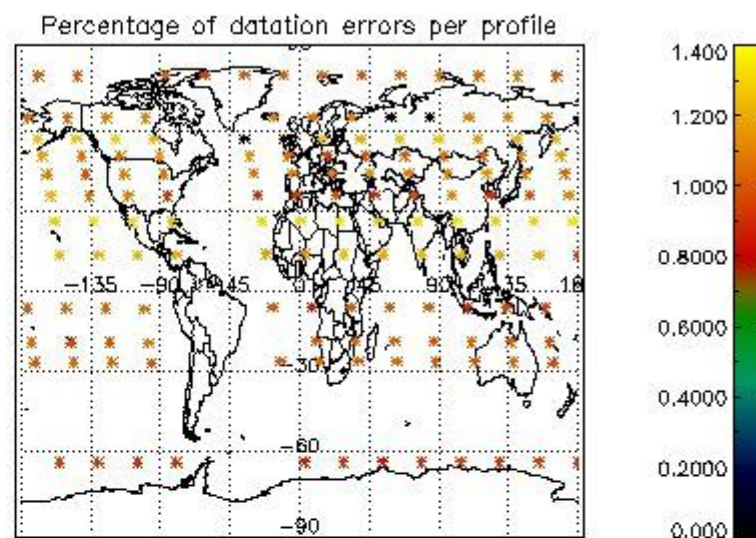
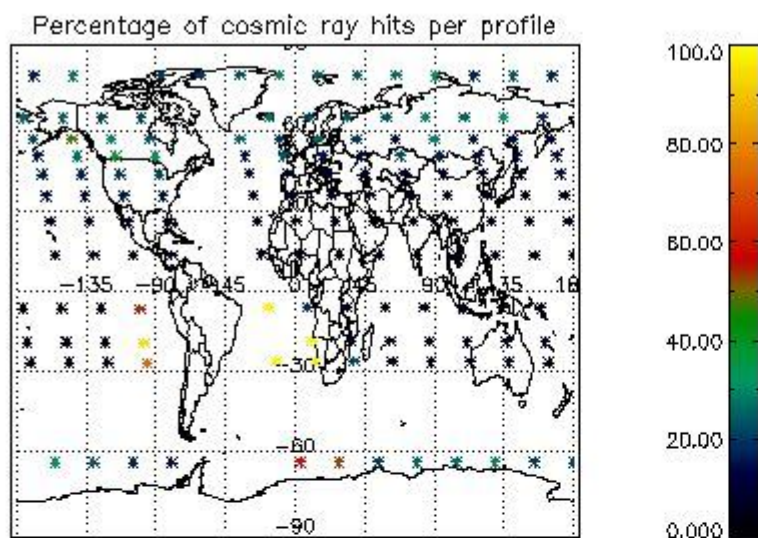


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



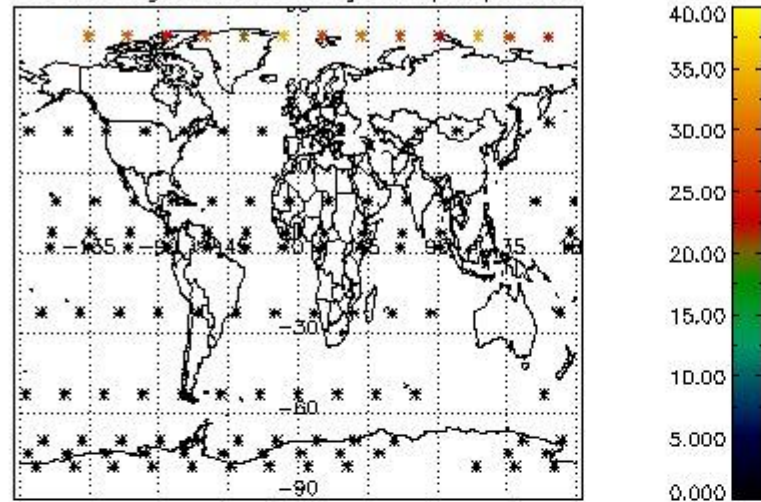
4.2 Plot quality information per product coming from level 1b processing (world map)

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

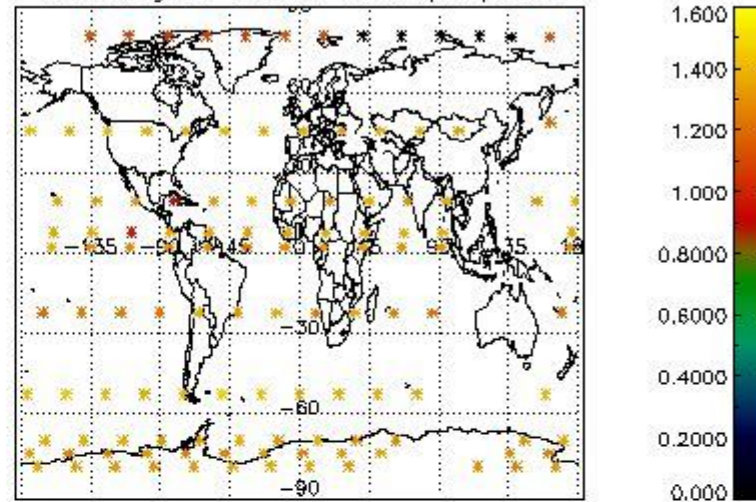


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

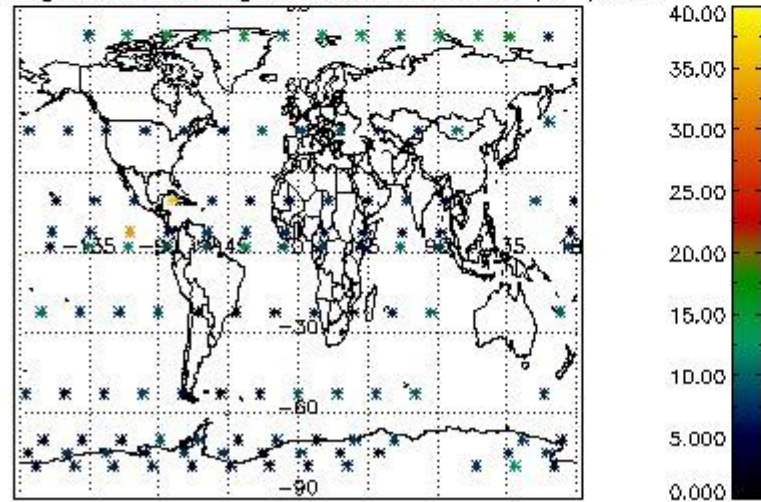
Percentage of cosmic ray hits per profile



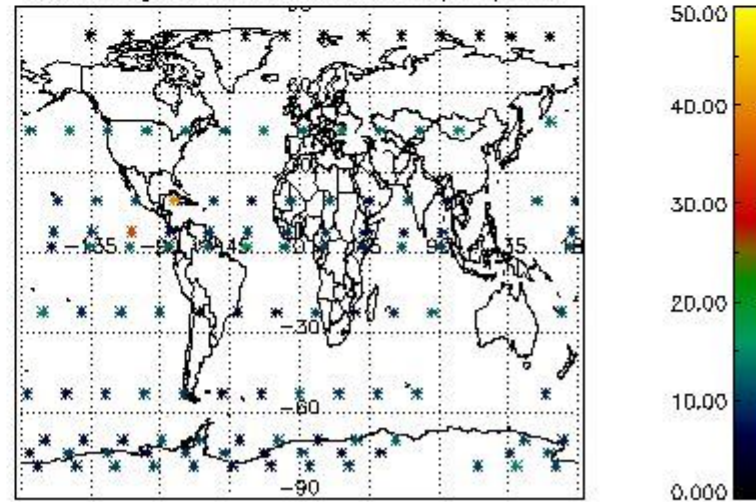
Percentage of datation errors per profile



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

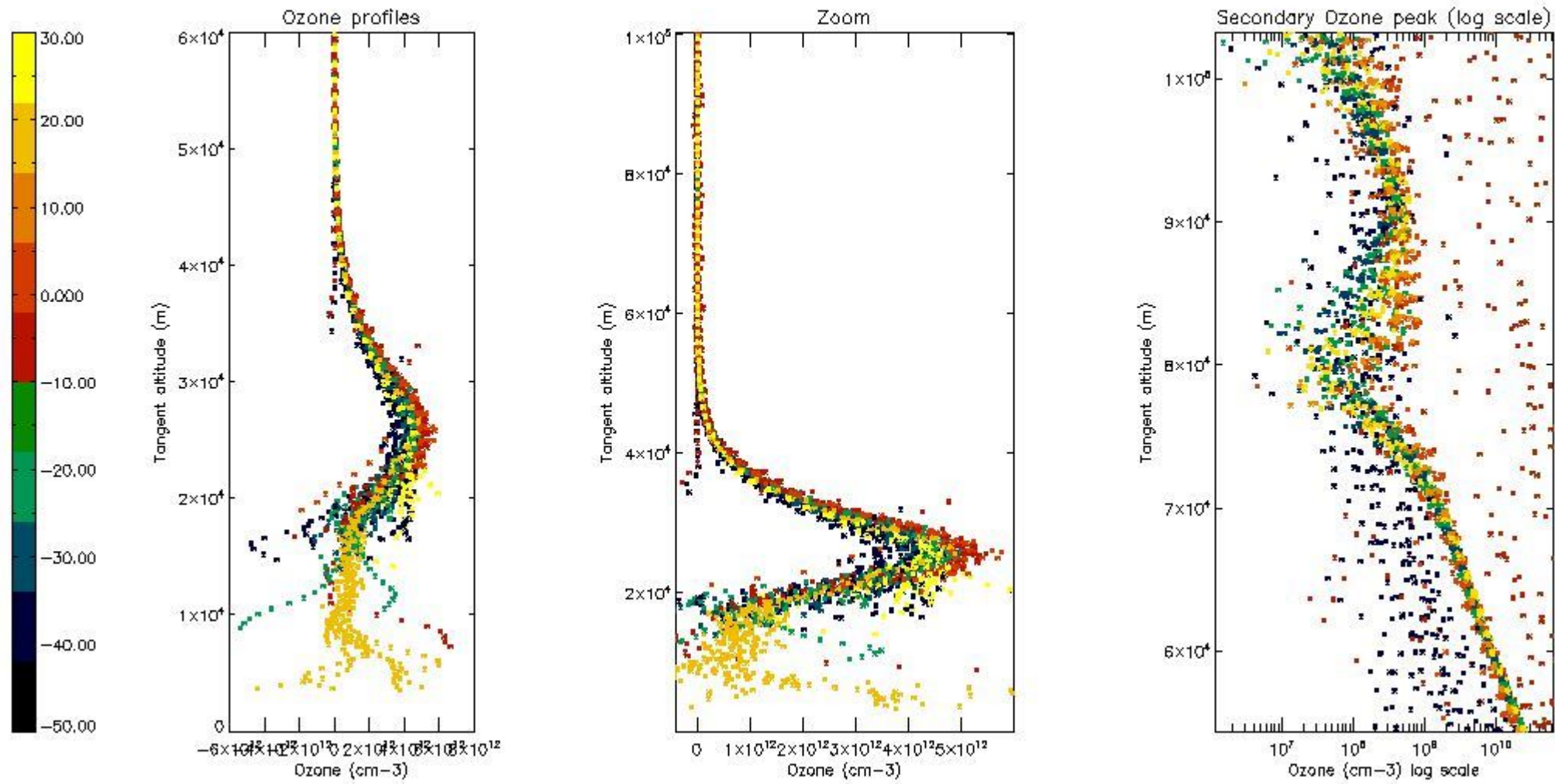
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	35
STD < 20	18

STD < 10	13
STD < 5	9

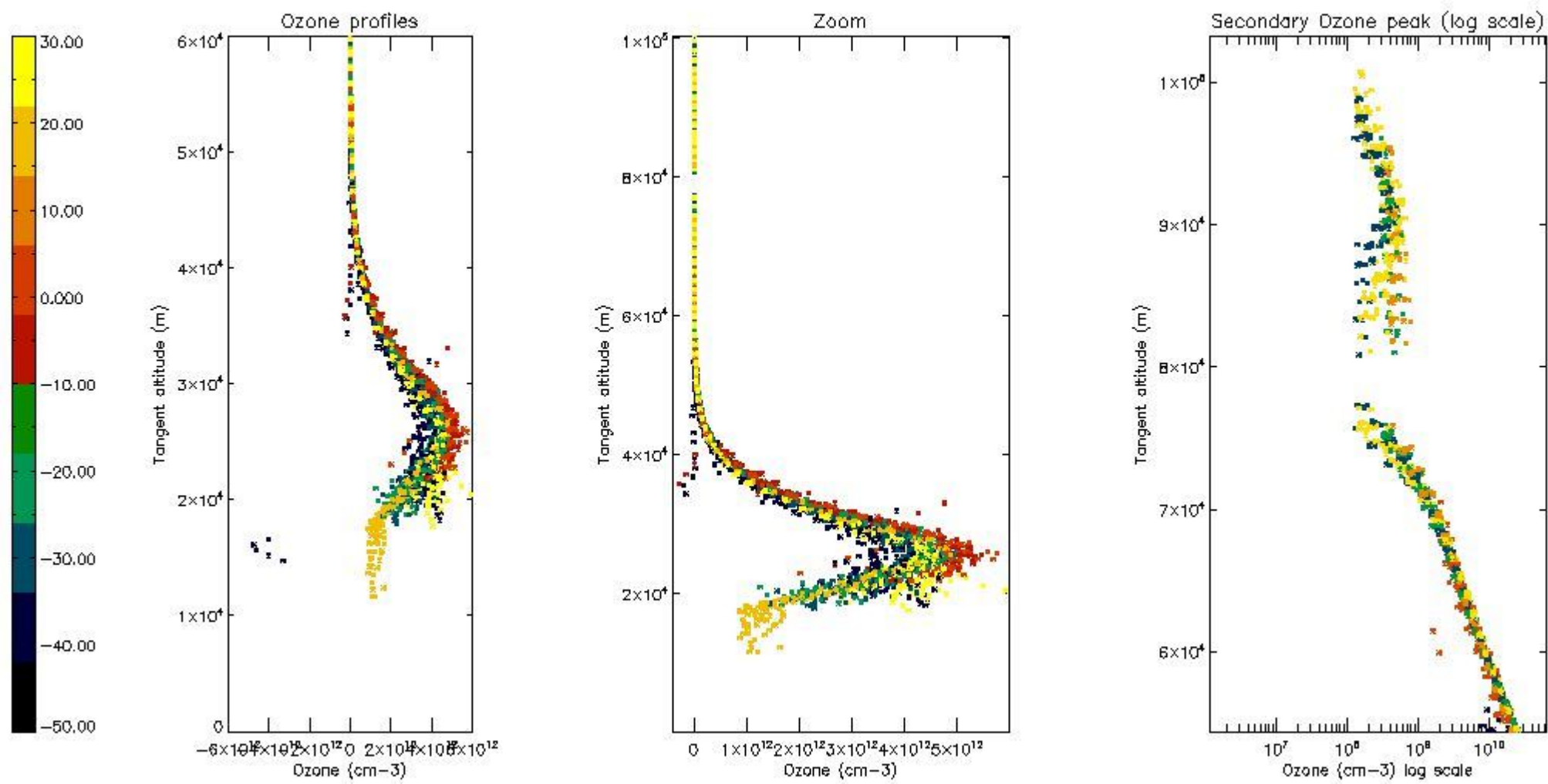
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



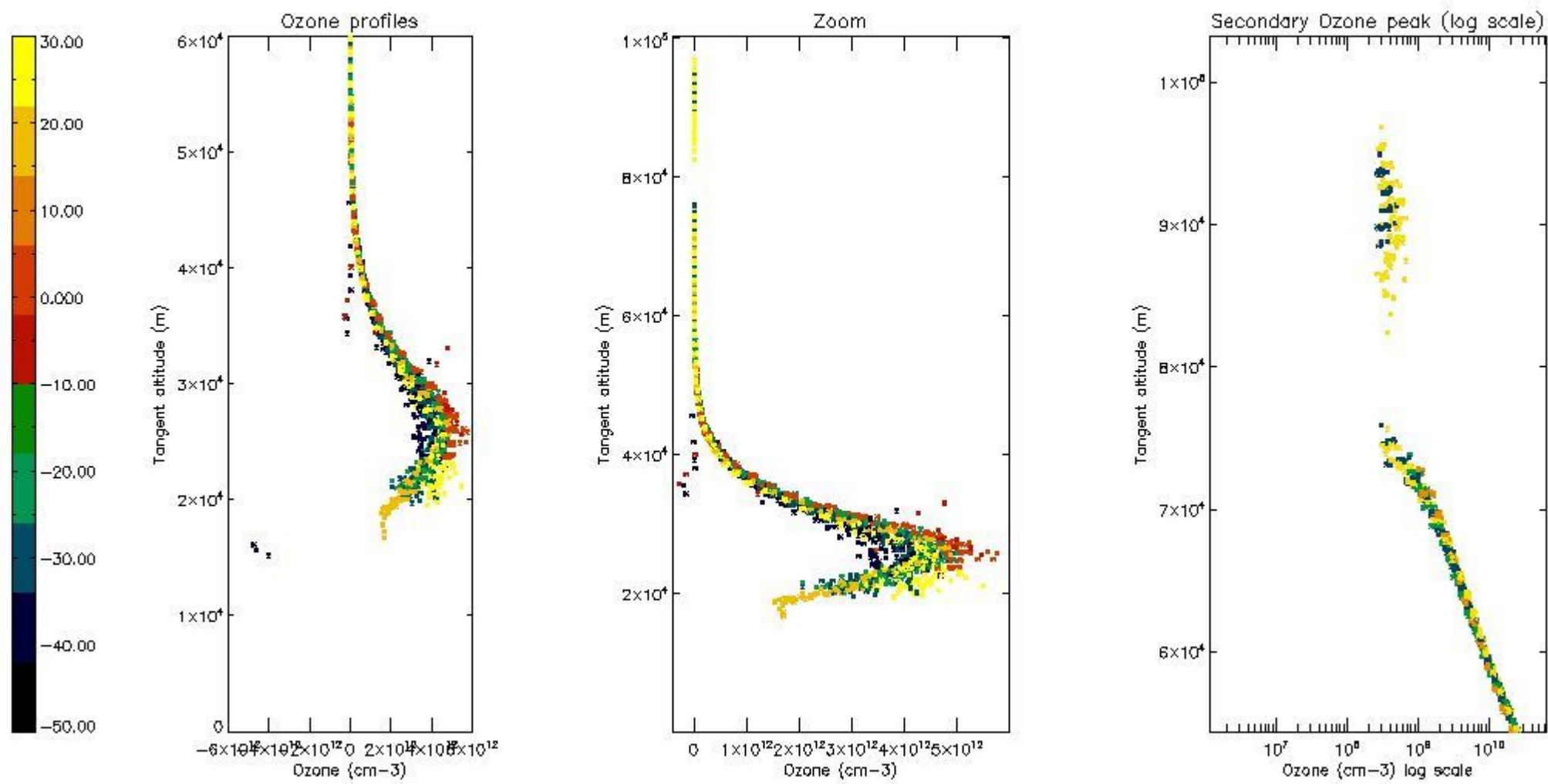
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



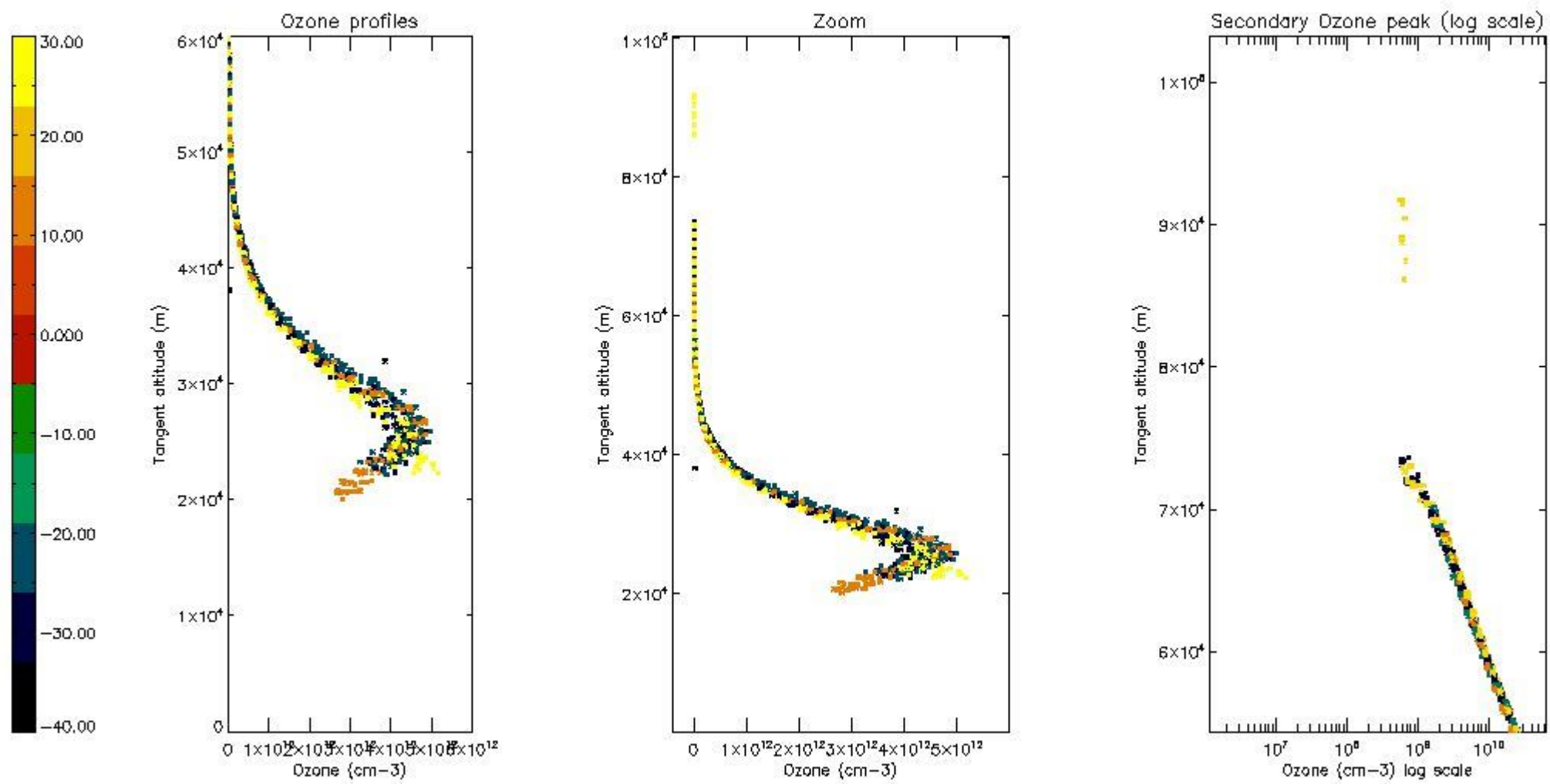
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



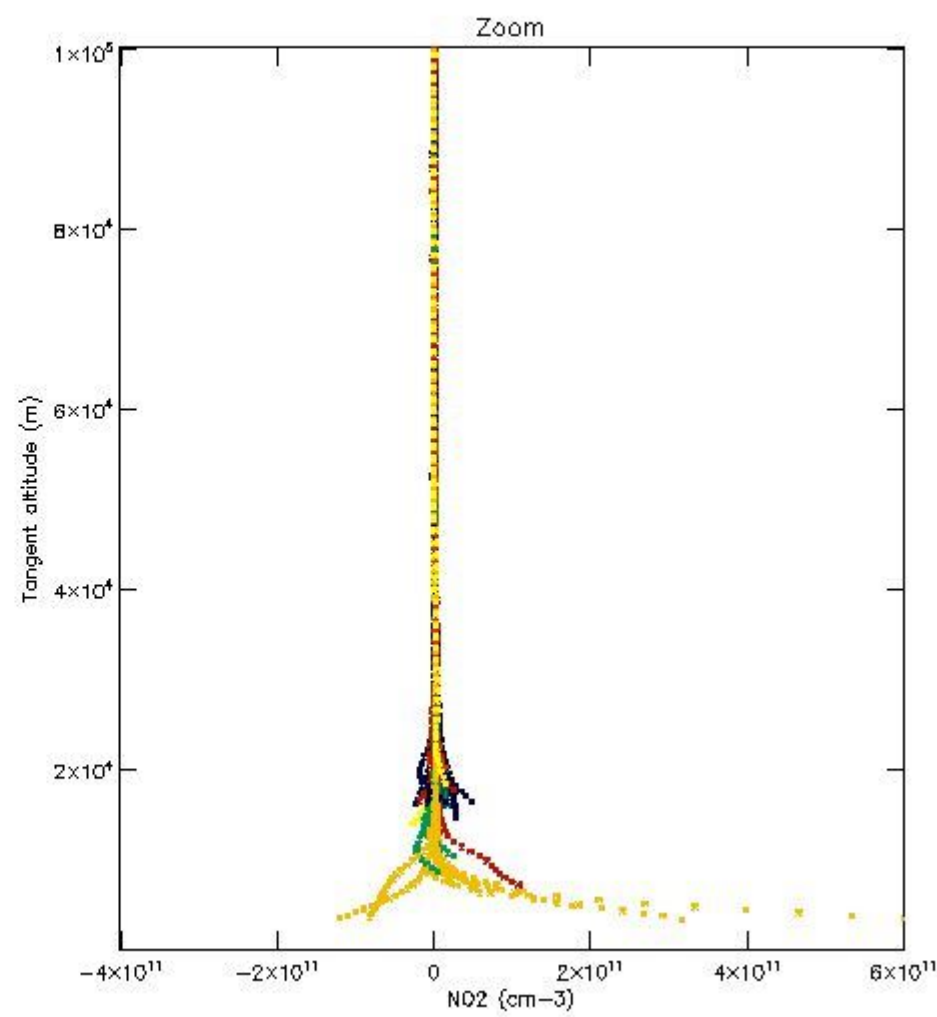
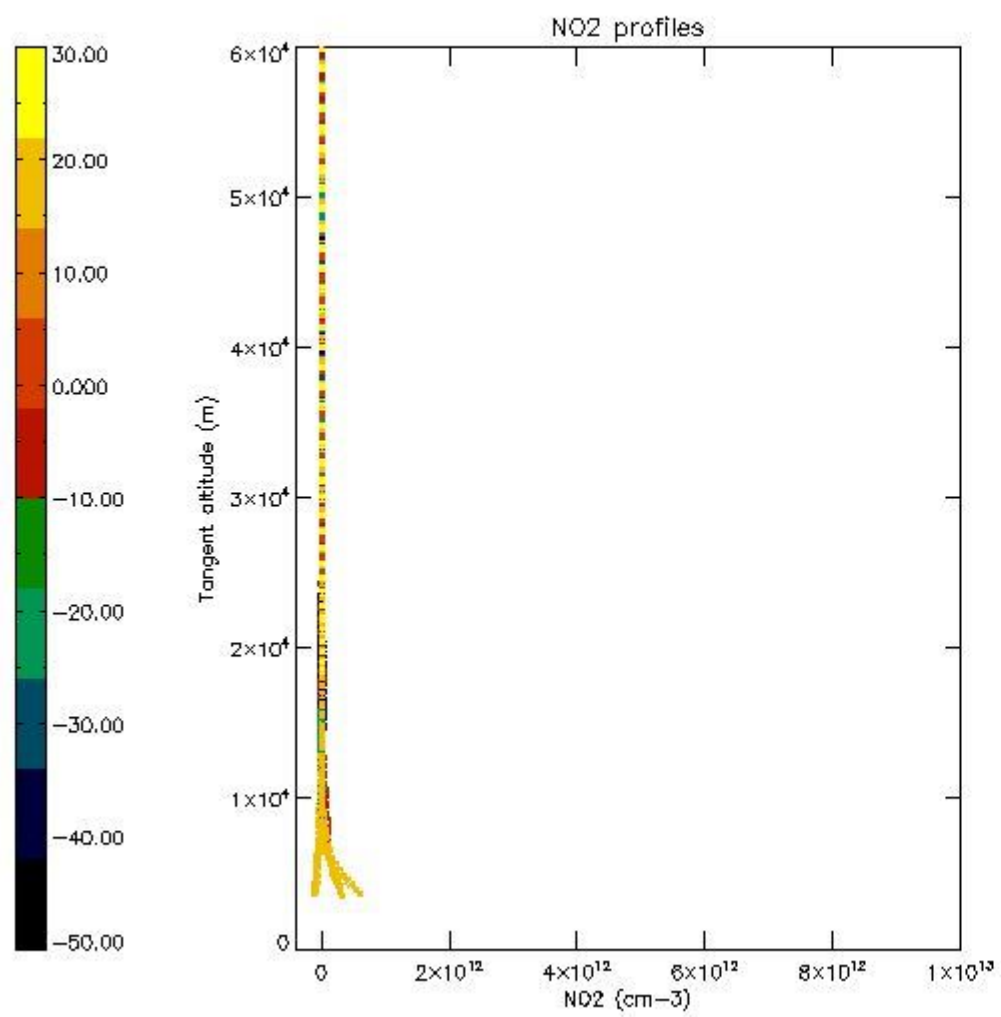
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



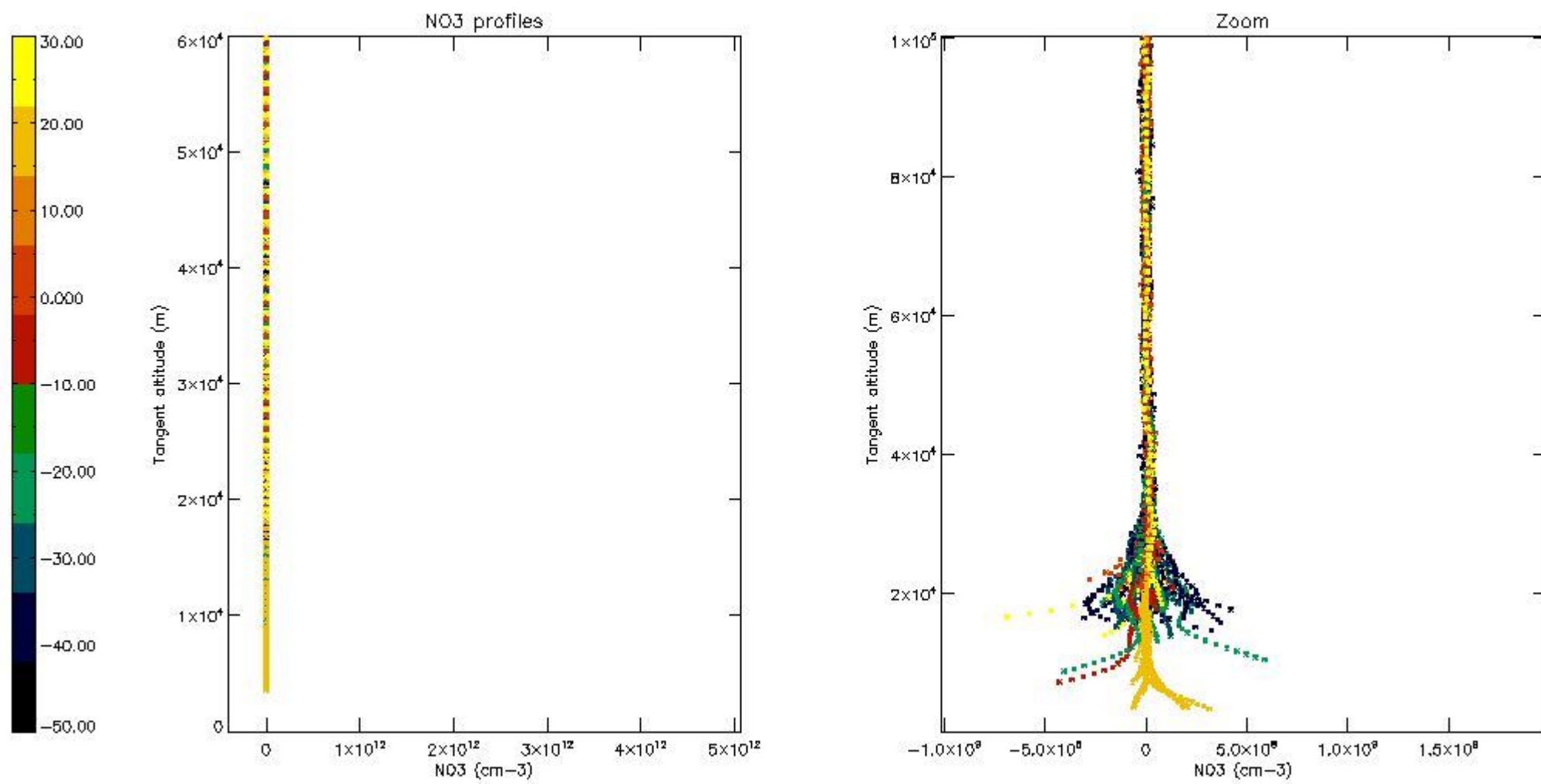
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



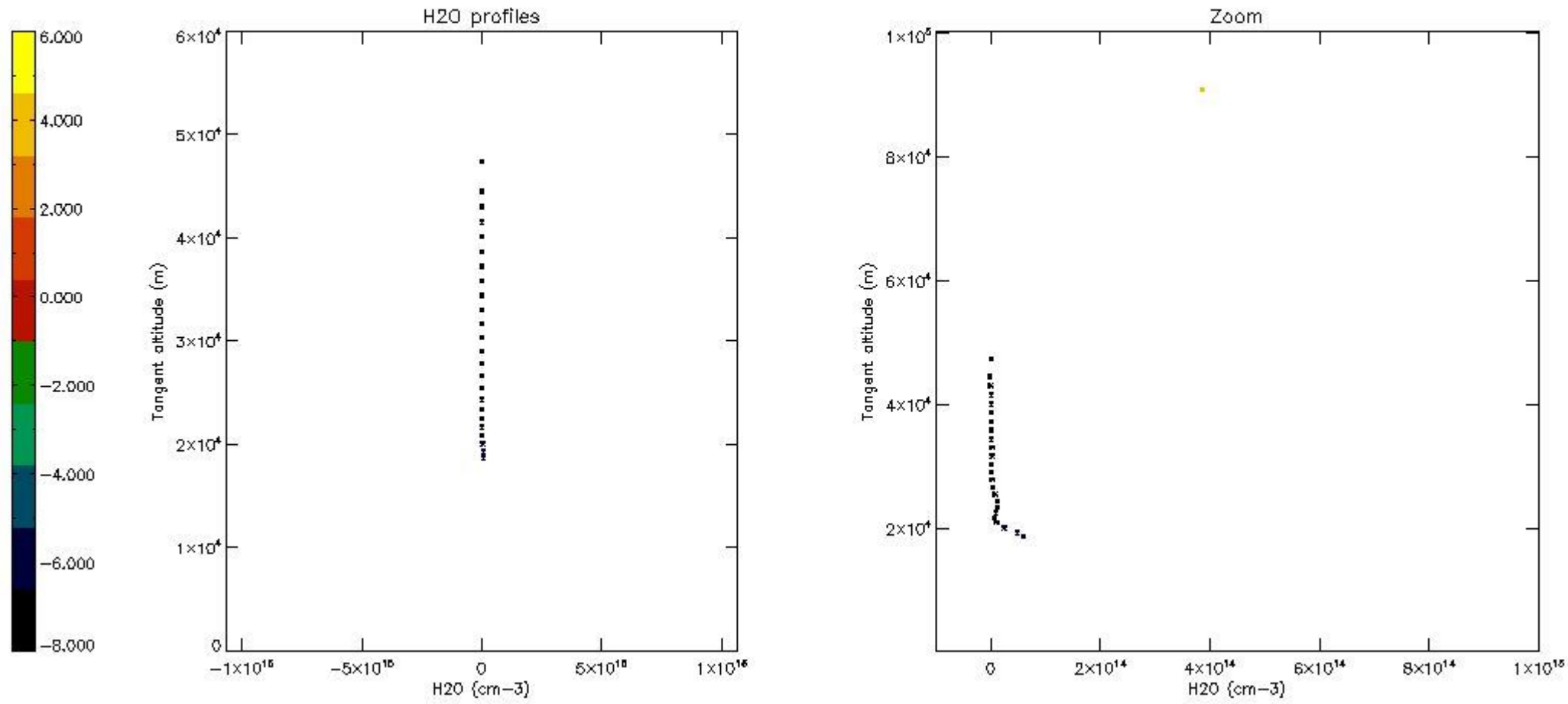
5.7 Plot NO3 profiles for all STD (dark without errors)

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	21-MAR-2008 03:10:49
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-MAR-2008 03:10:49
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-MAR-2008 03:10:49

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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 \(dark without errors\)](#)

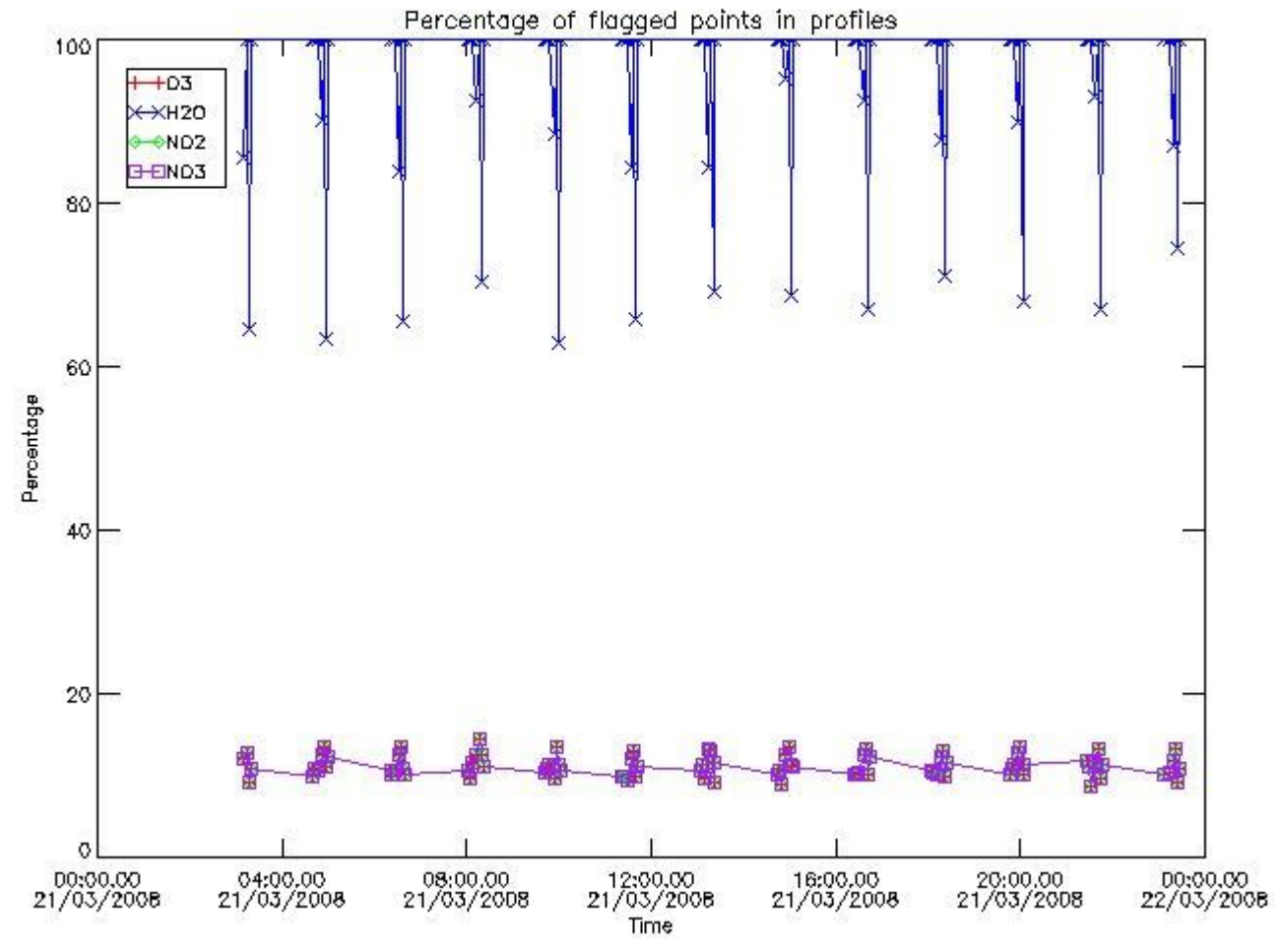
[5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

[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](#)

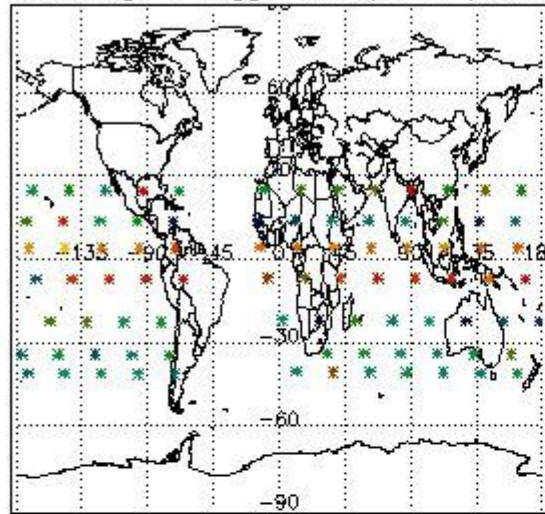
the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

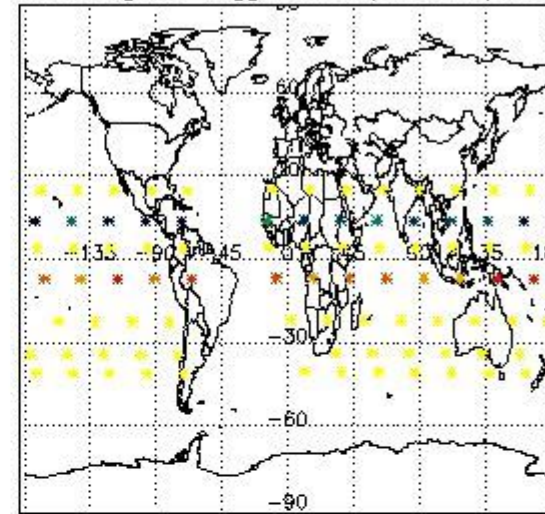


3.2 Plot quality information per product (world map)

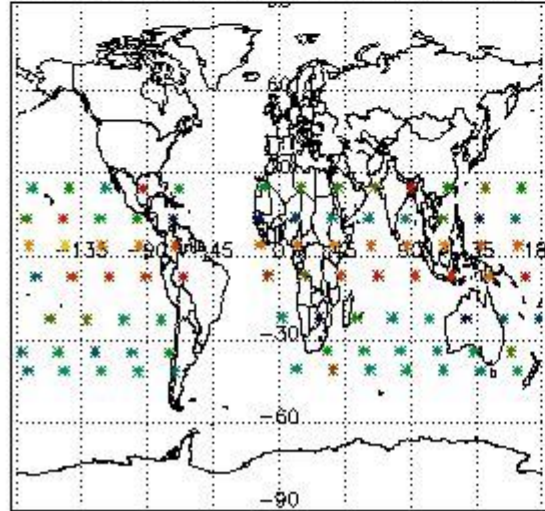
Percentage of flagged data per O3 profile



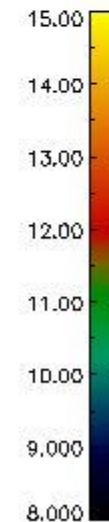
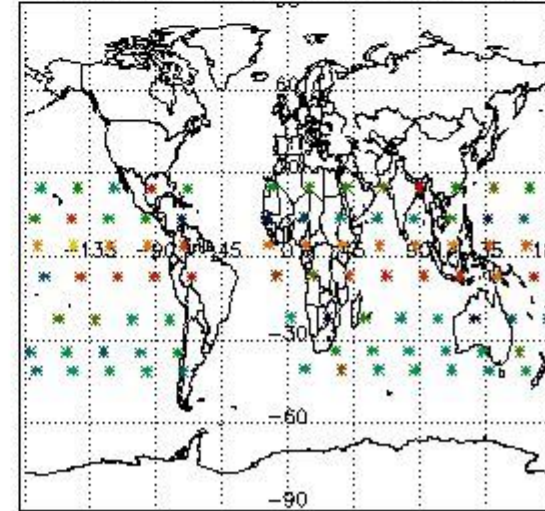
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

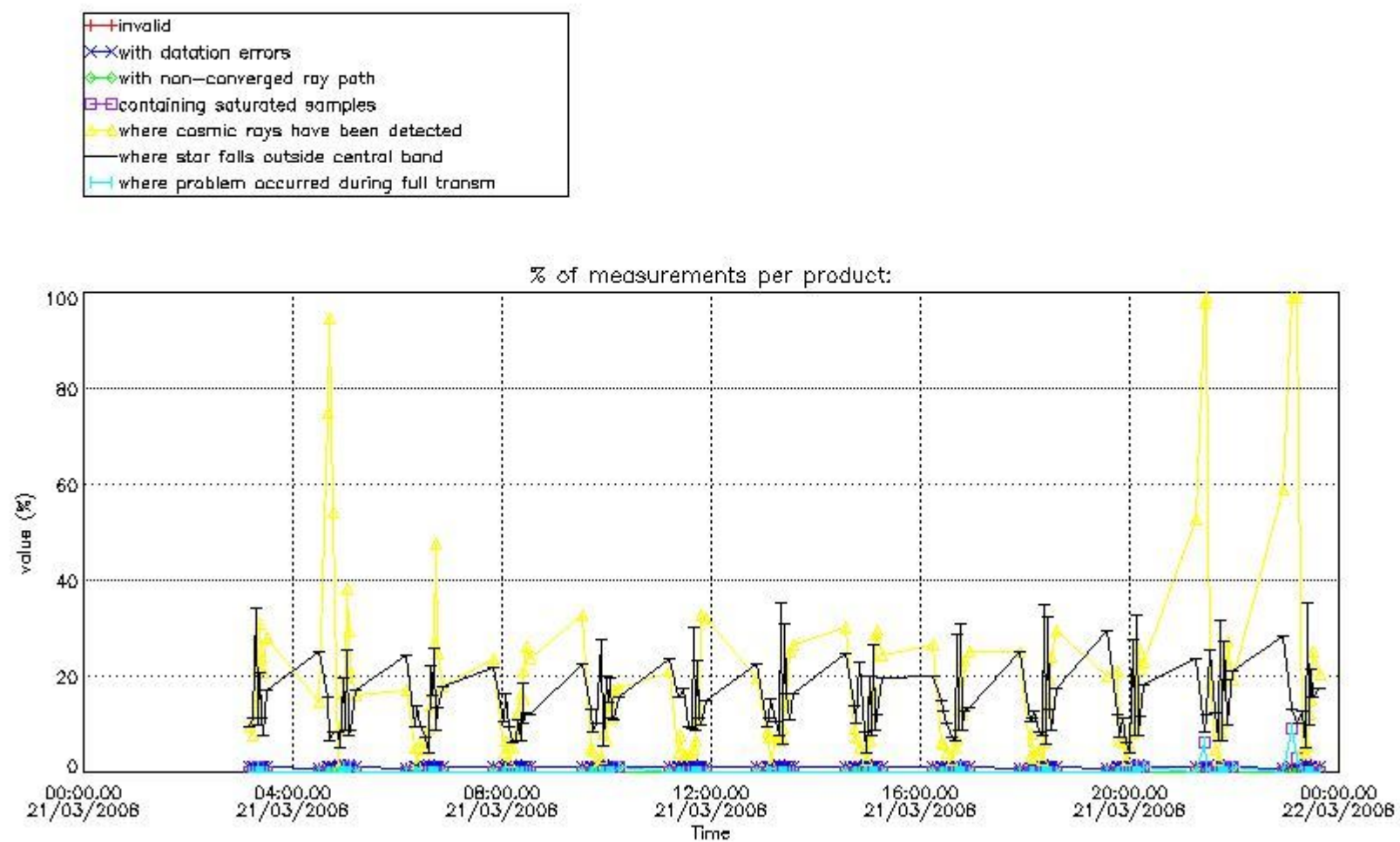


4. Level 1 quality information per product

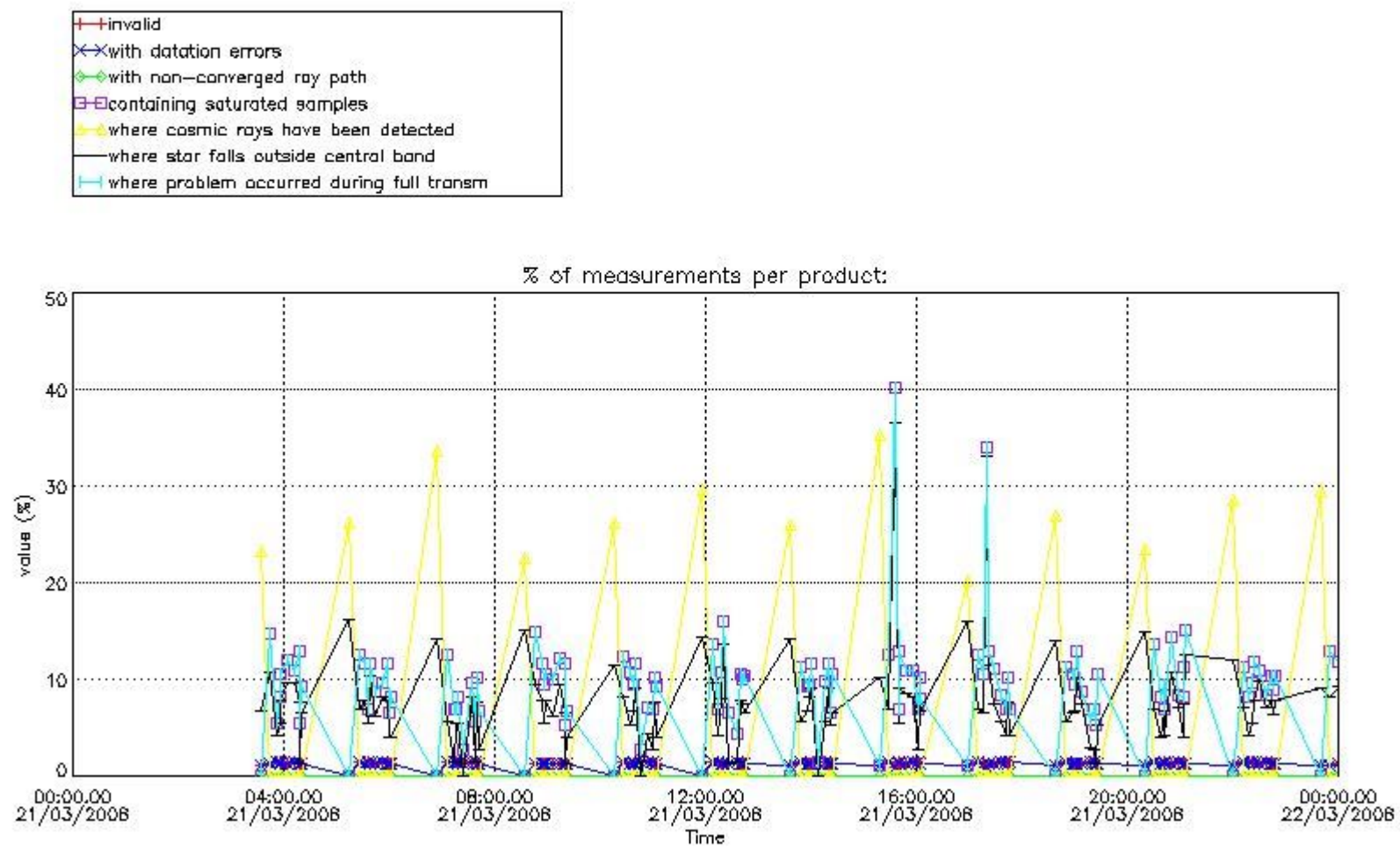
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

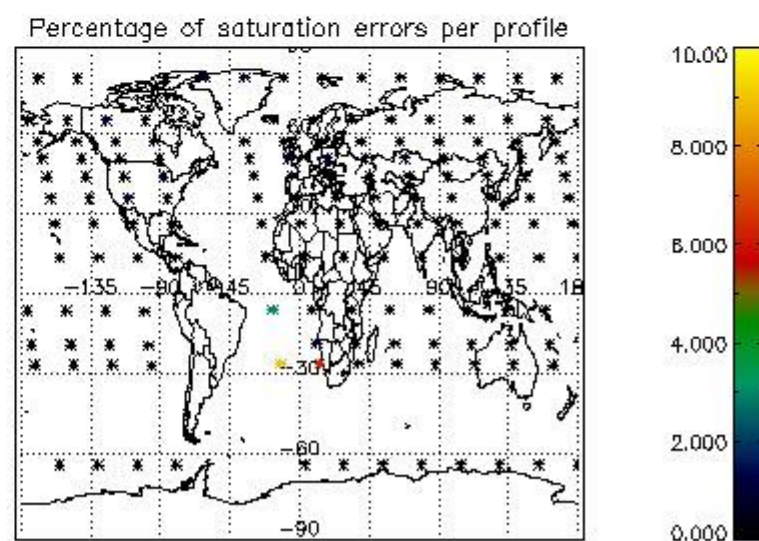
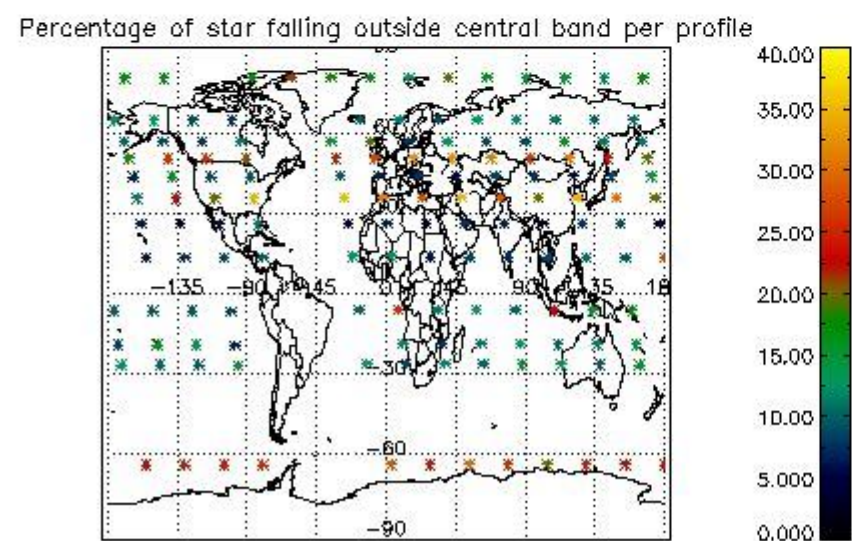
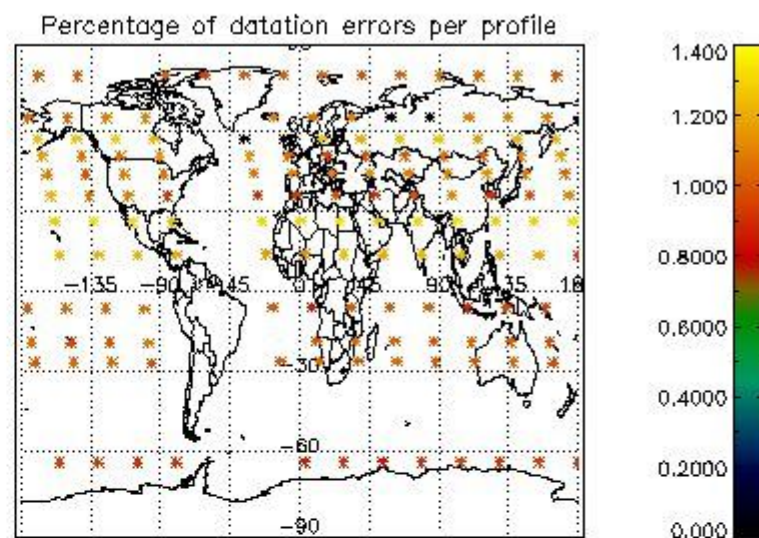
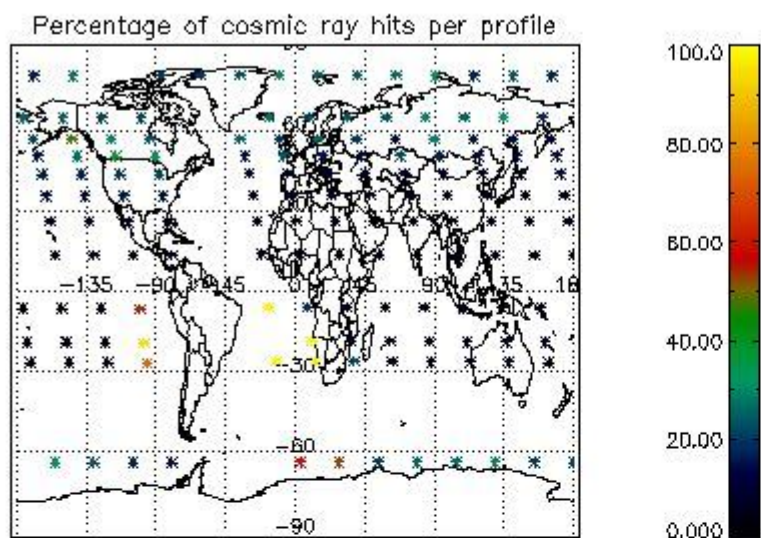


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

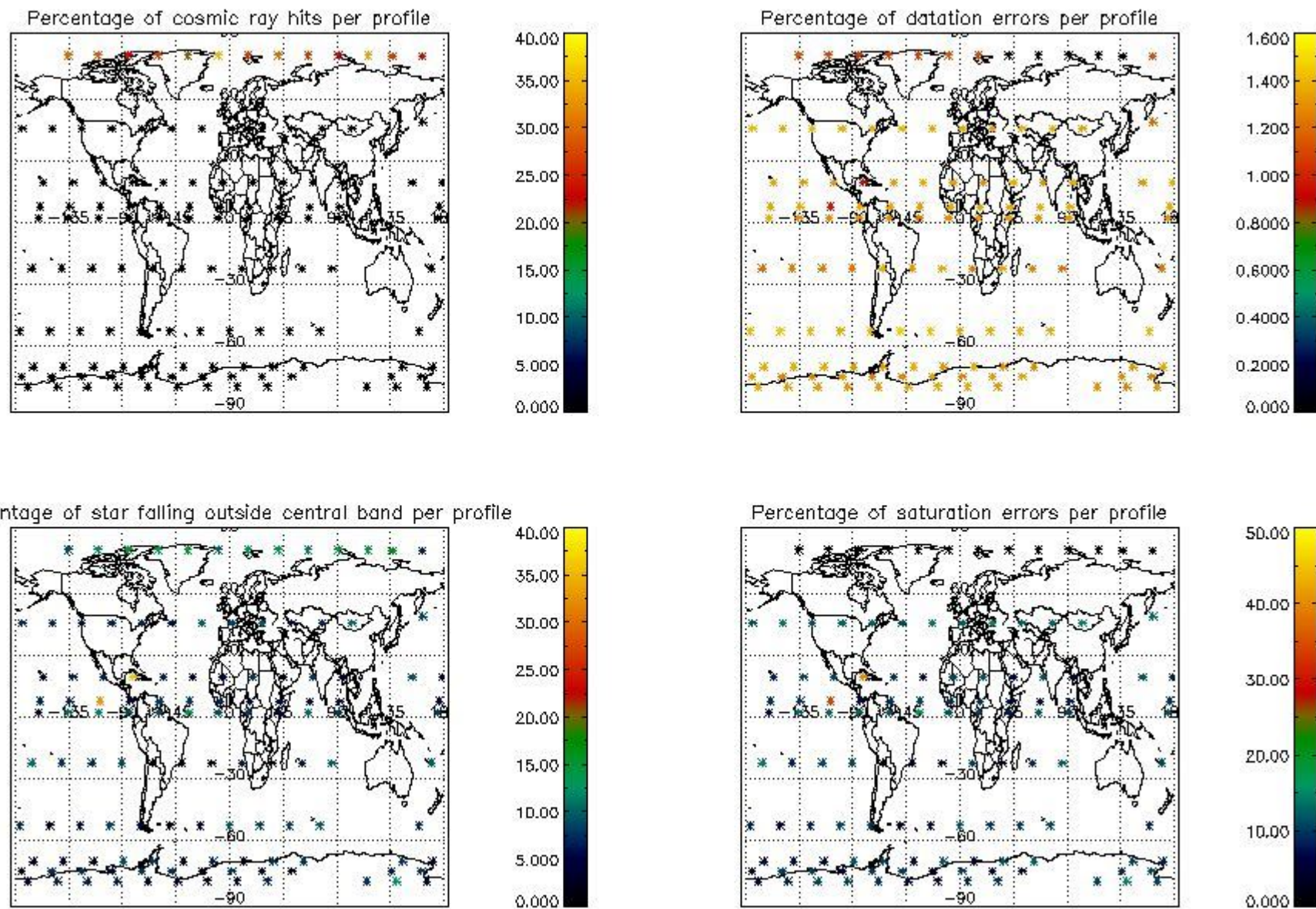


4.2 Plot quality information per product coming from level 1b processing (world map)

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

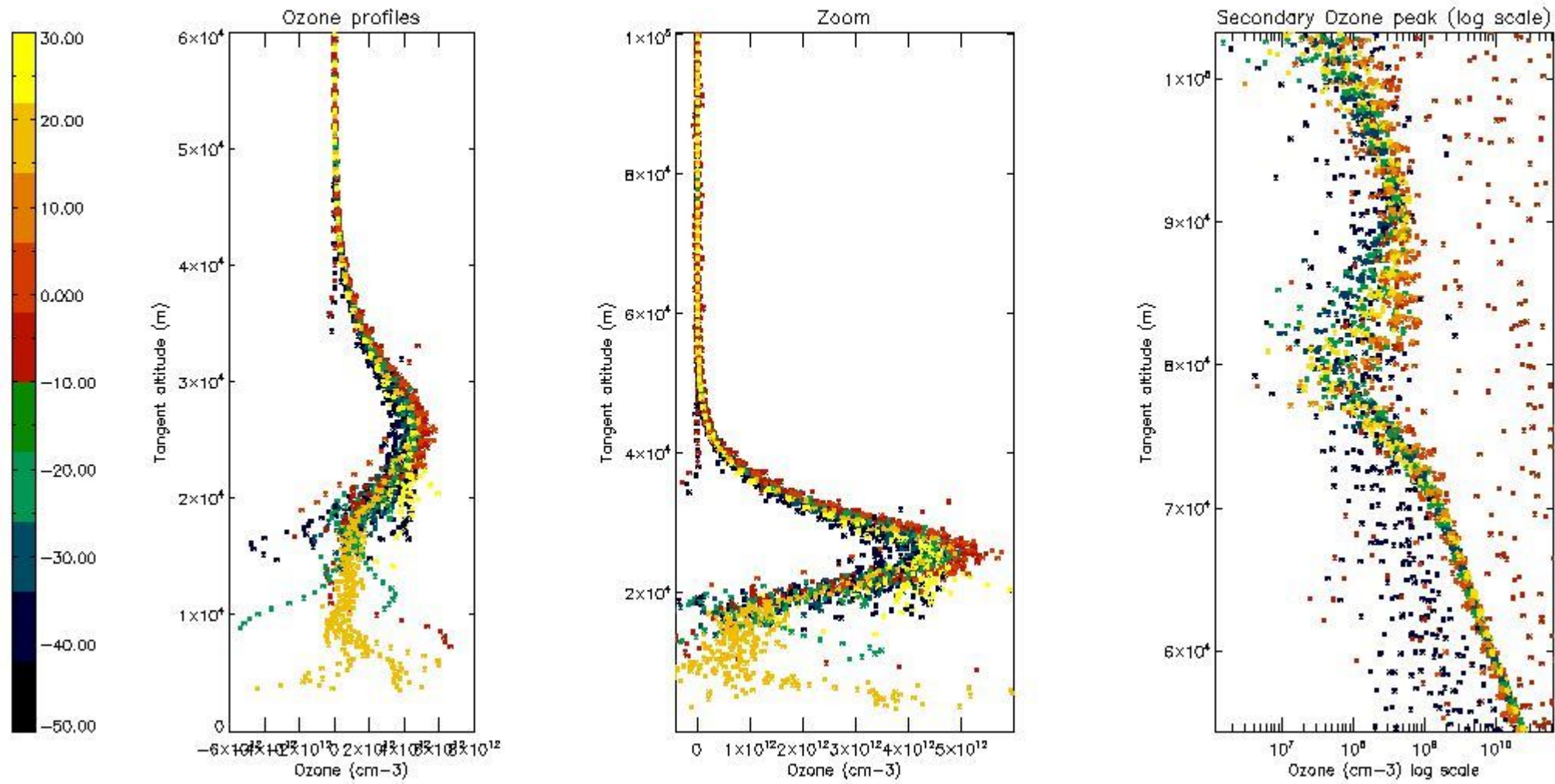
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	35
STD < 20	18

STD < 10	13
STD < 5	9

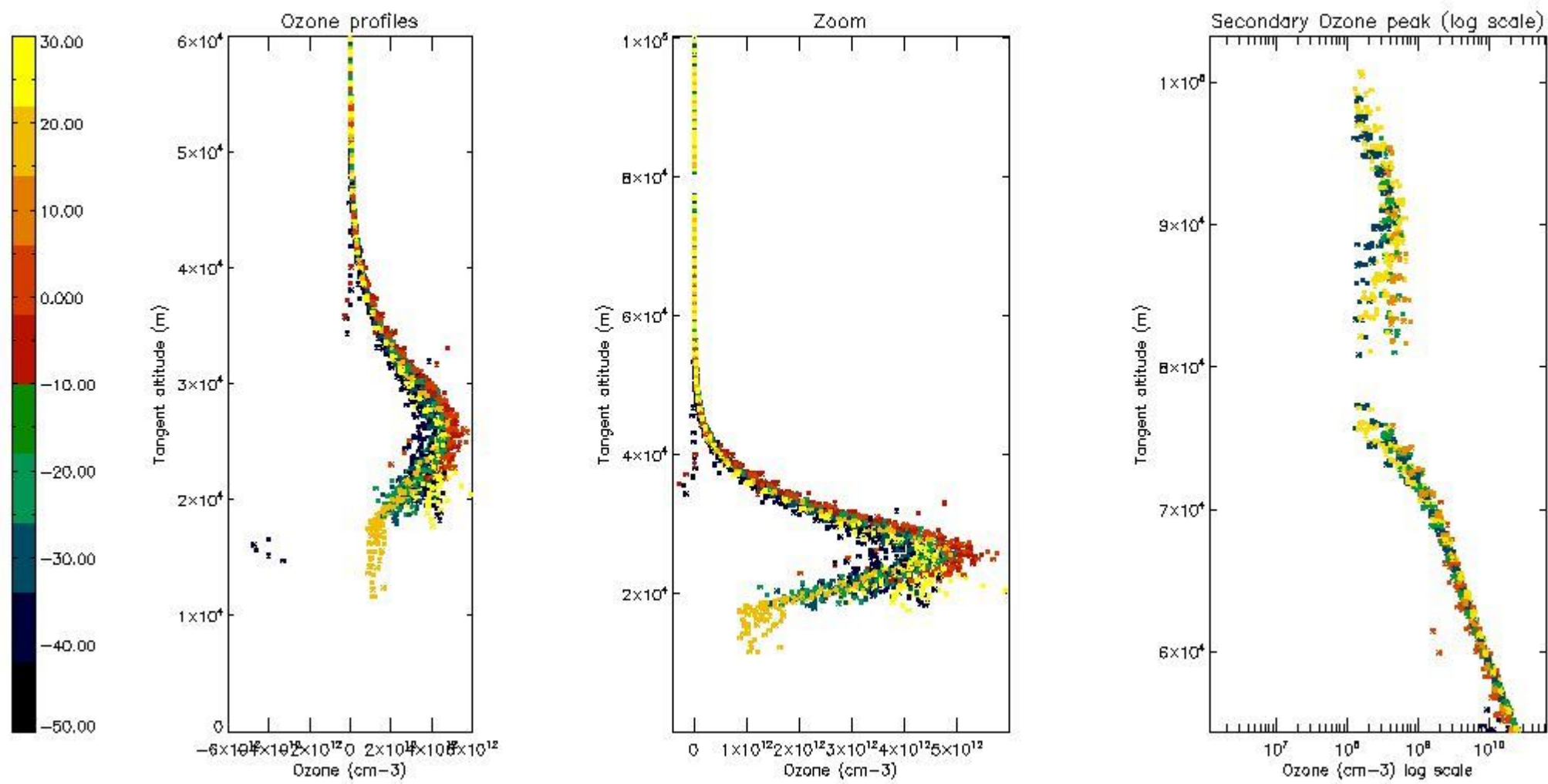
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



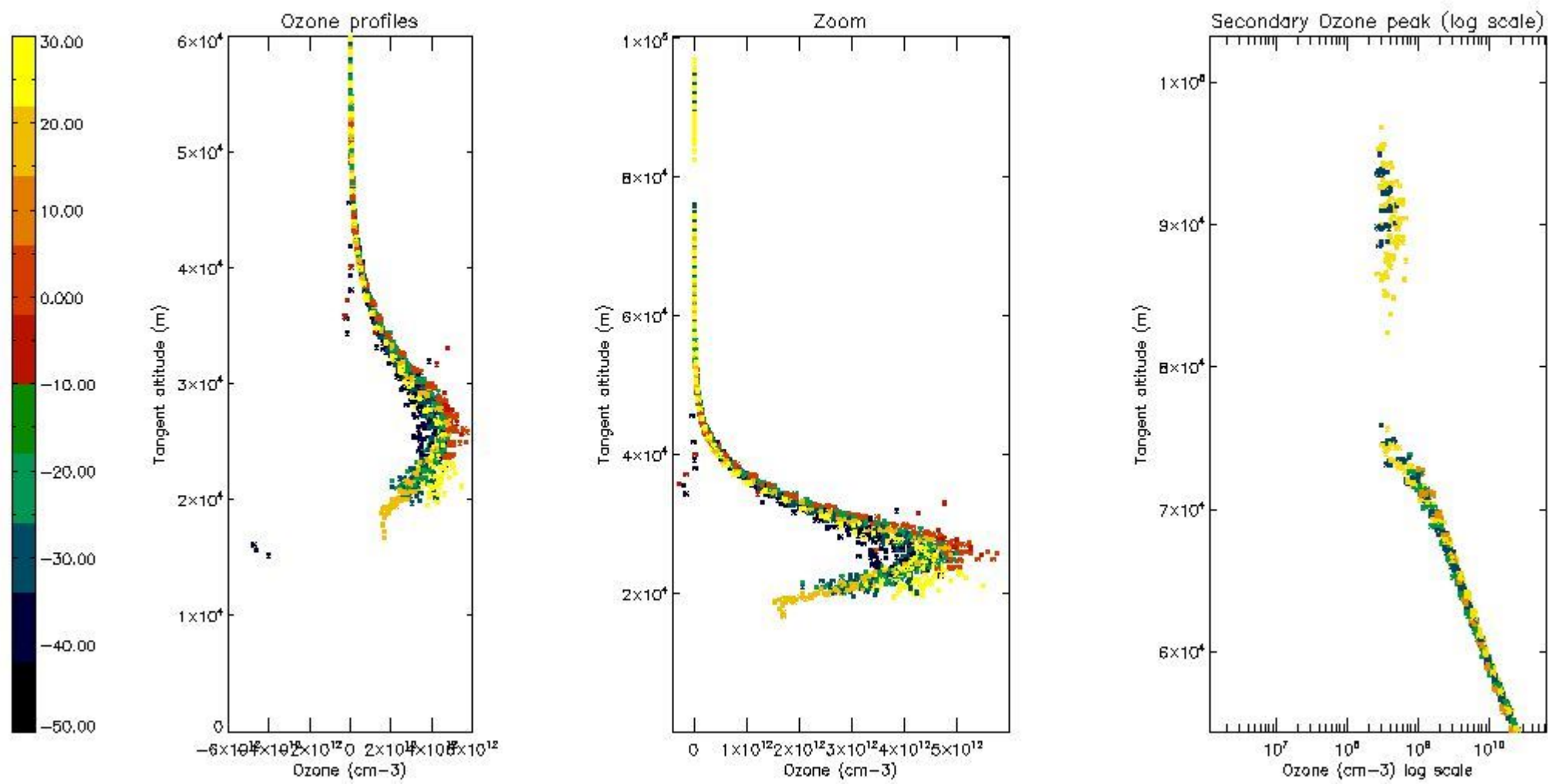
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



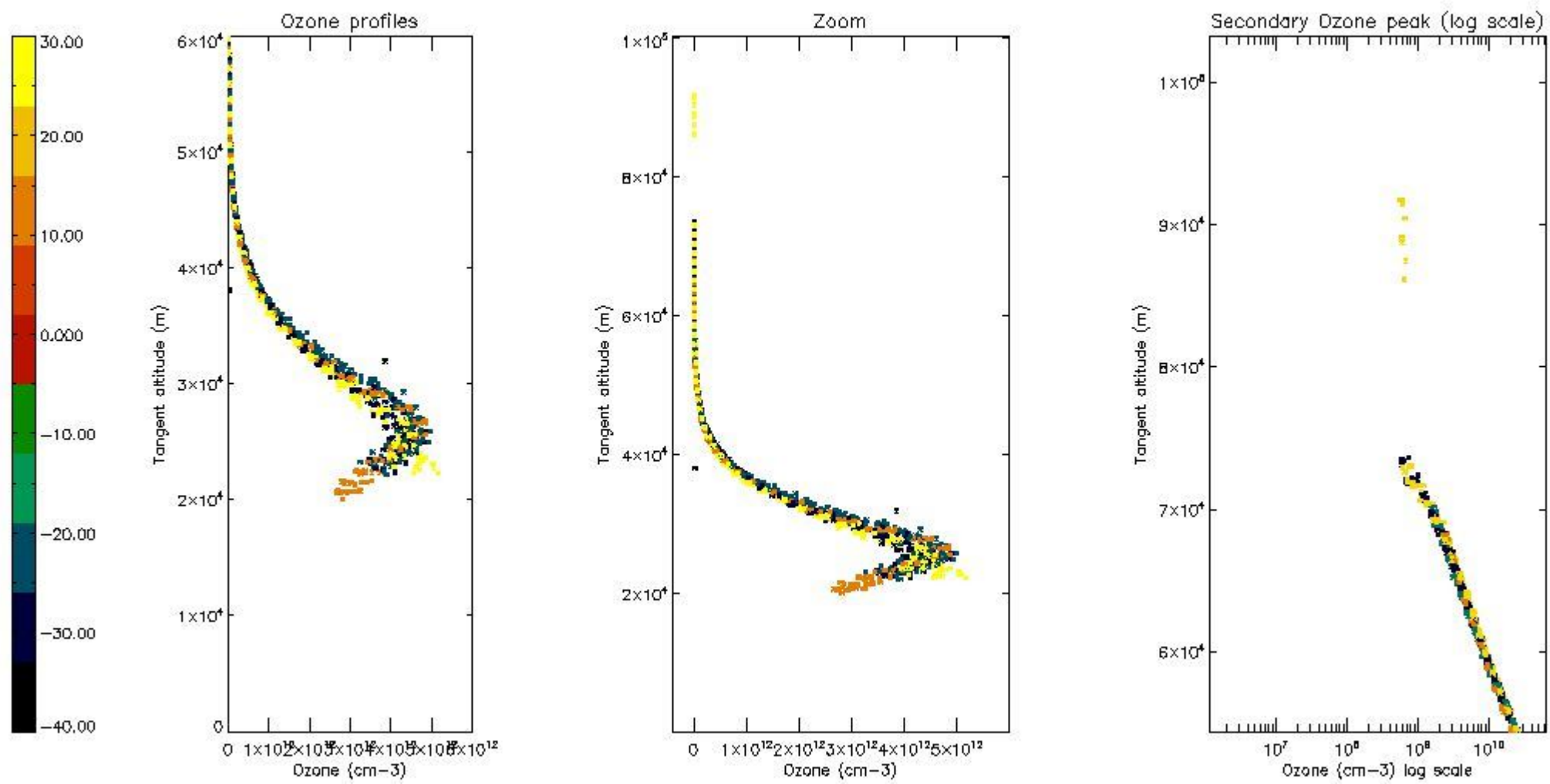
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



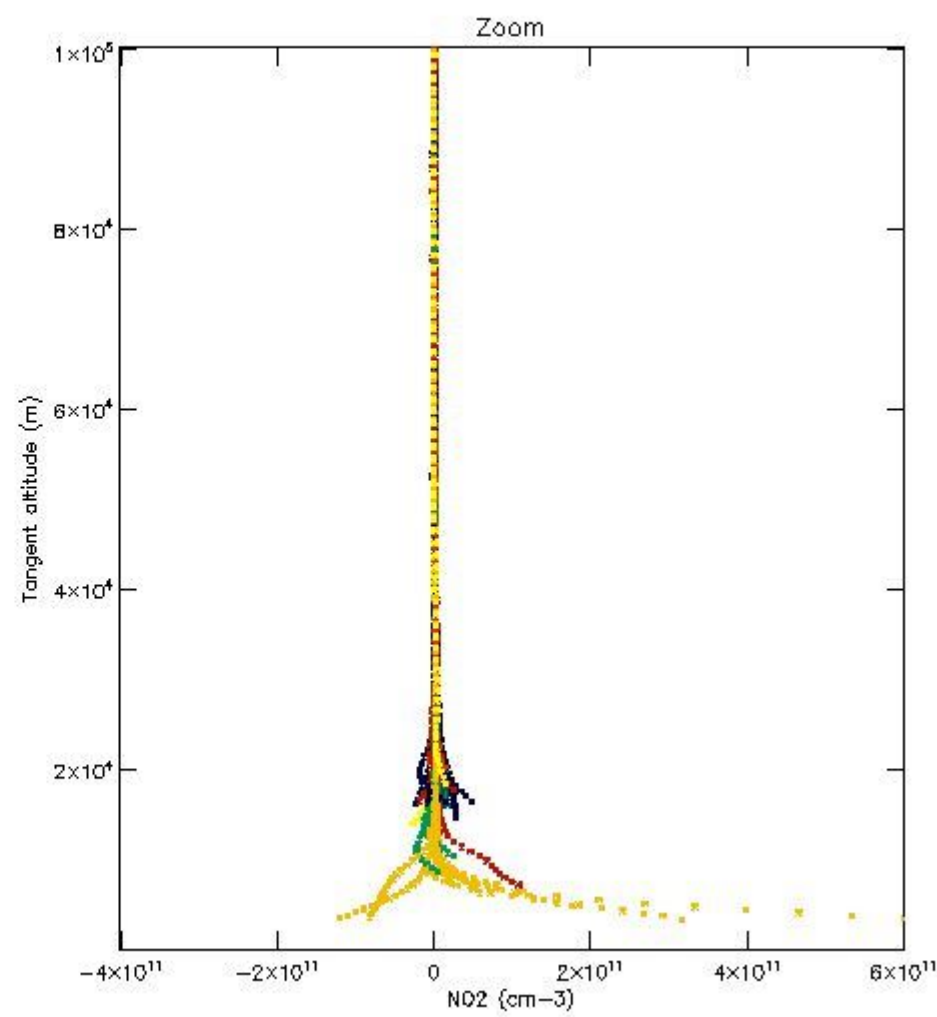
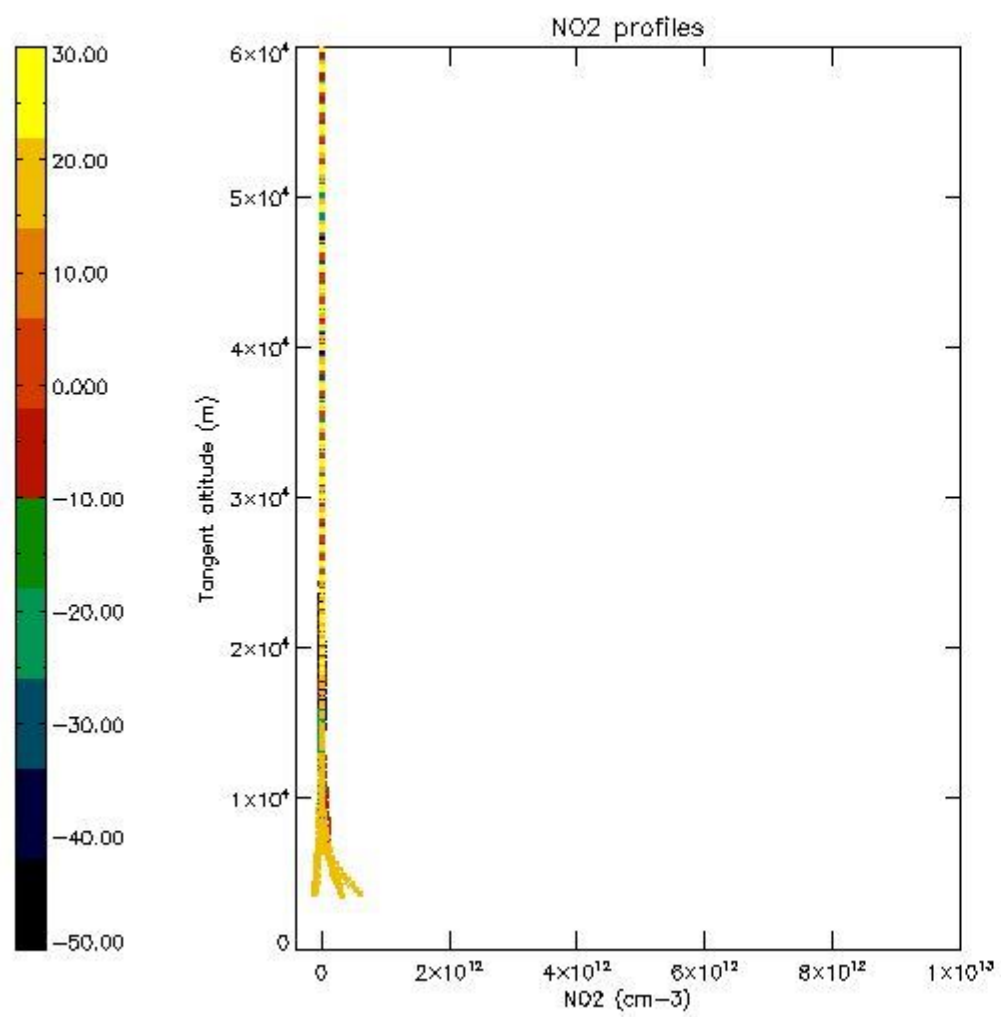
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



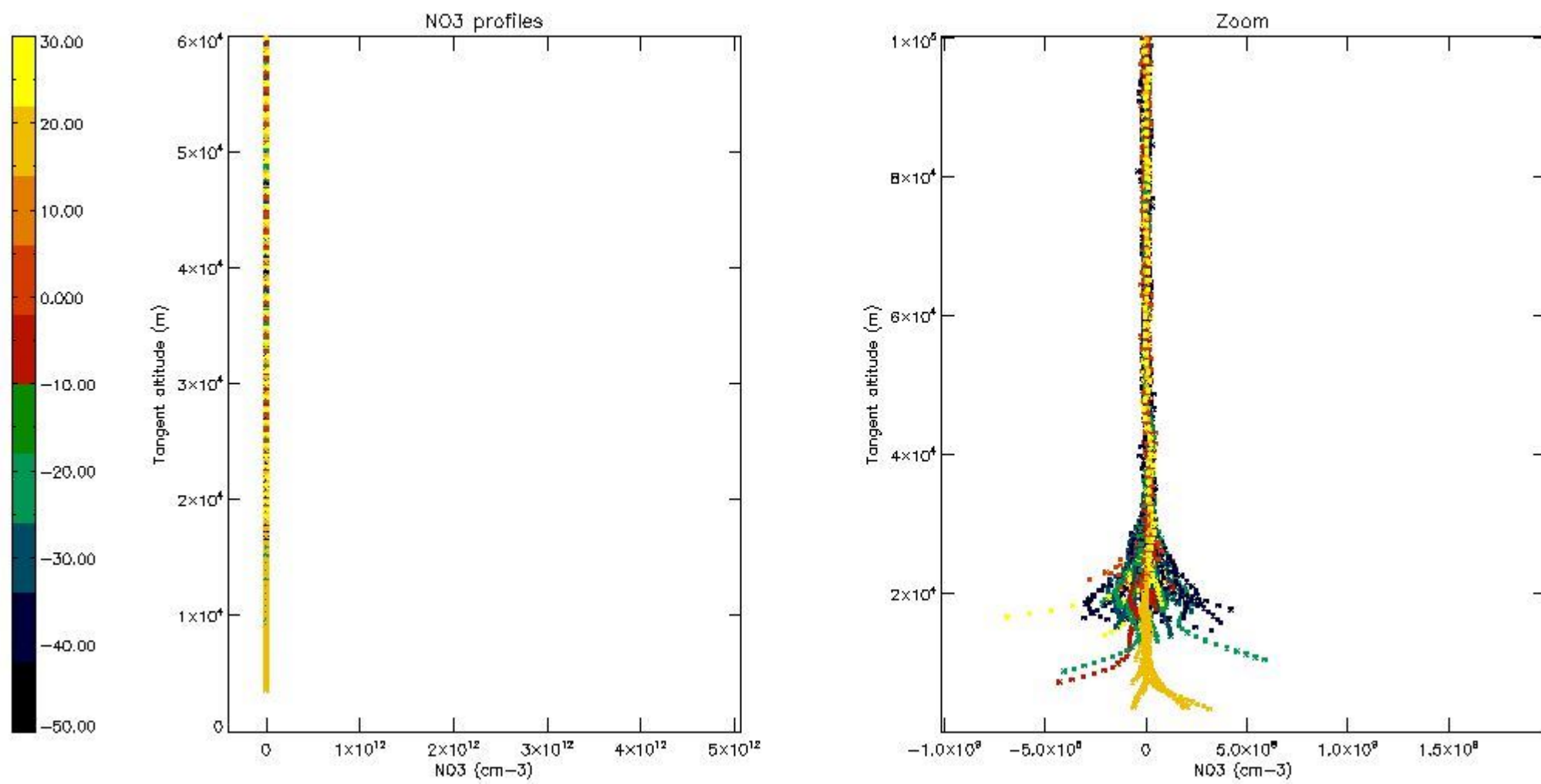
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



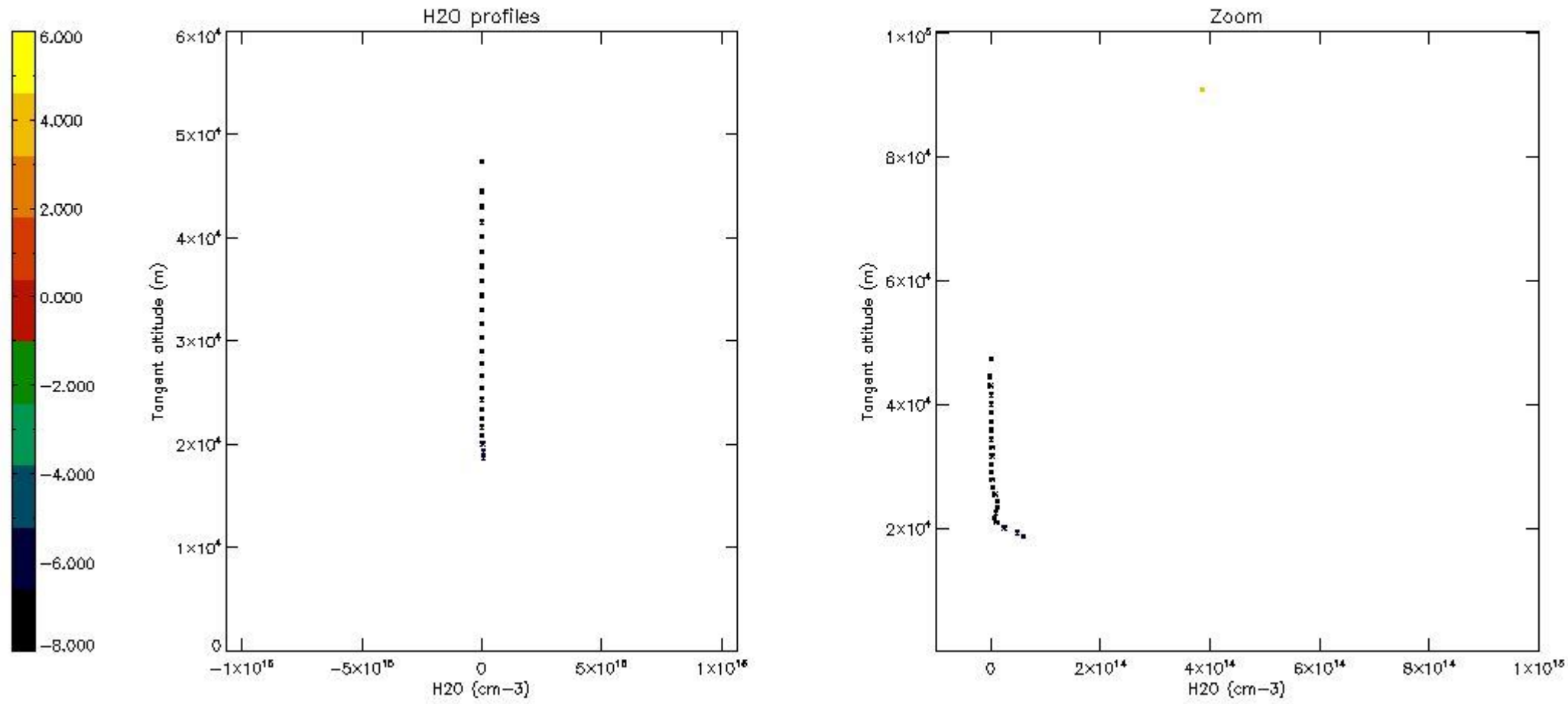
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

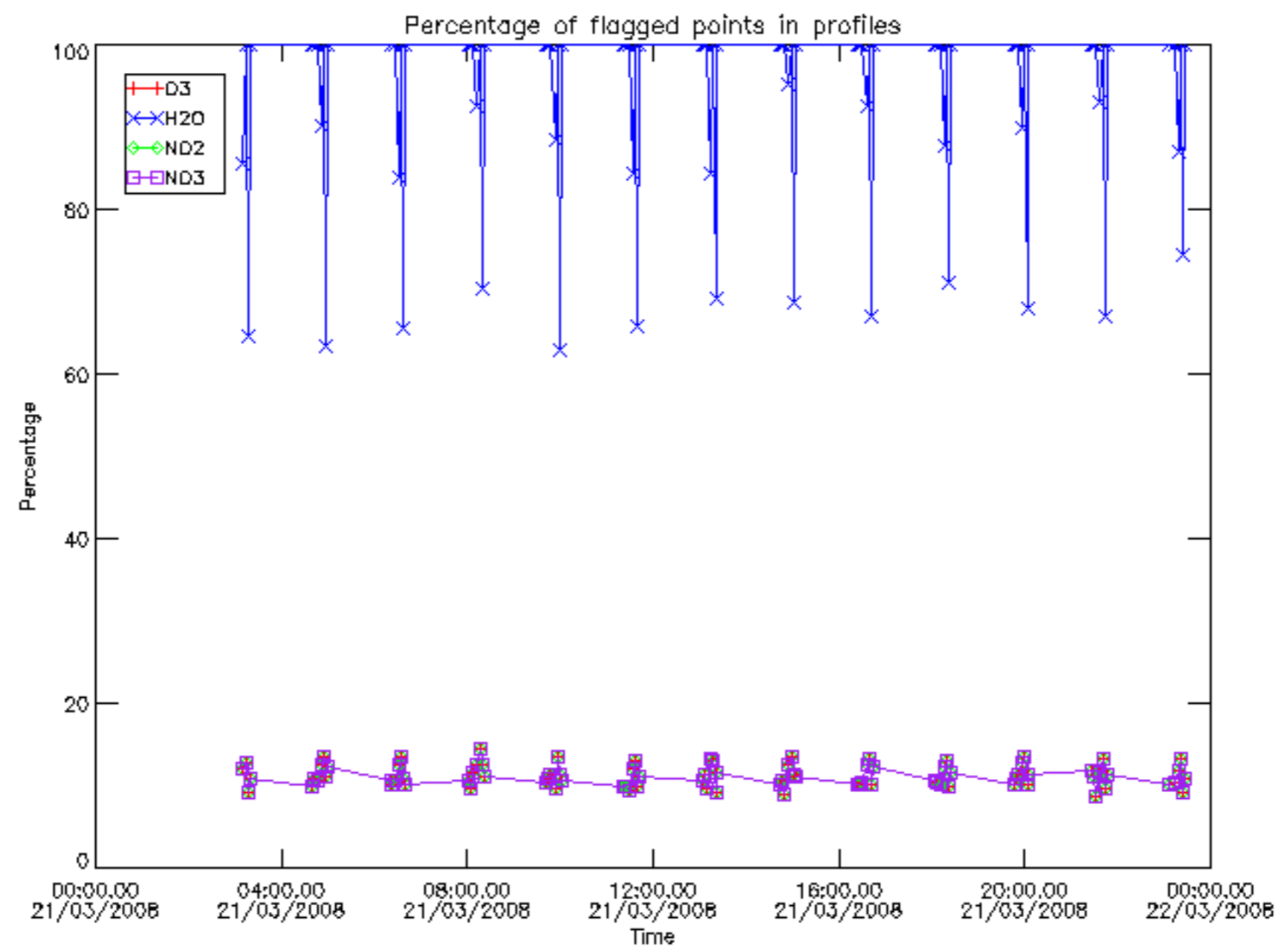
The colorbar represents the latitude.



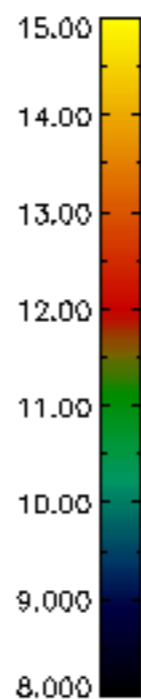
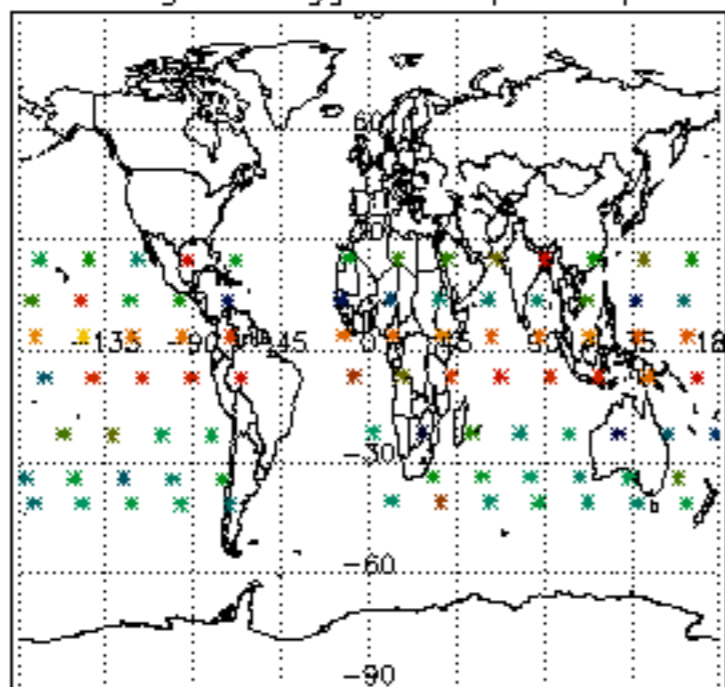
6. Auxiliary Data Files used for the production reported in section 2

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.

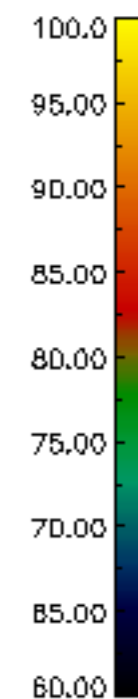
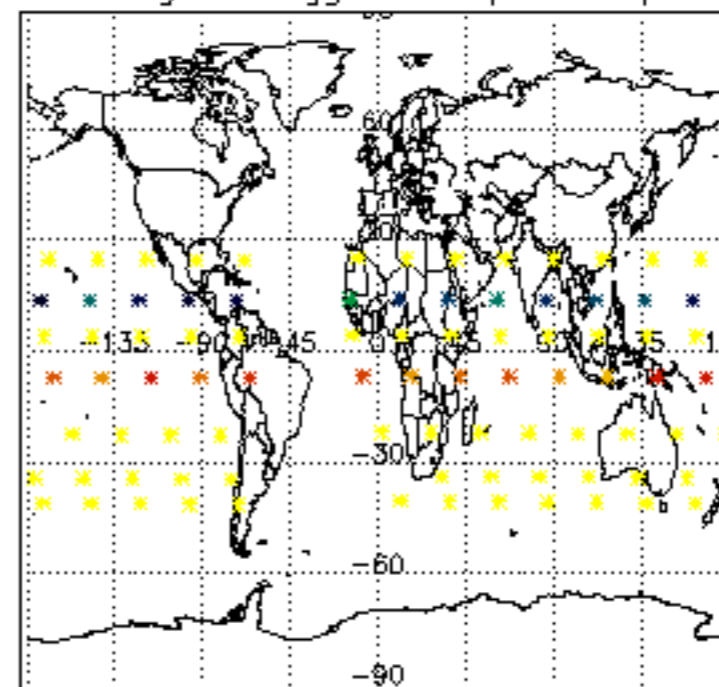
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	21-MAR-2008 03:10:49
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-MAR-2008 03:10:49
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-MAR-2008 03:10:49



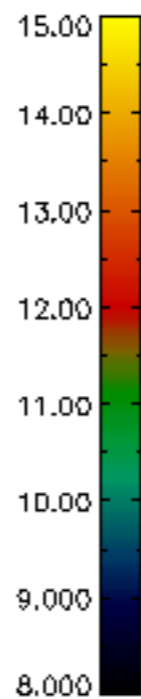
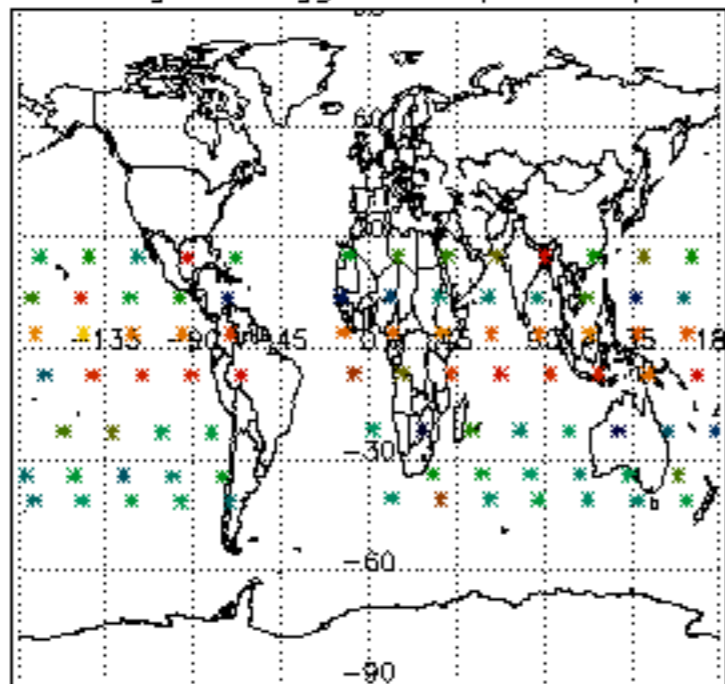
Percentage of flagged data per D3 profile



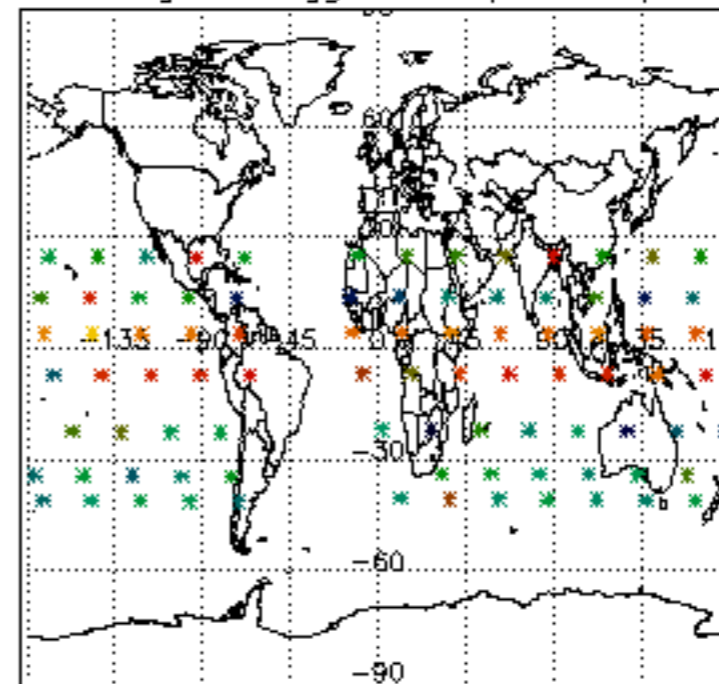
Percentage of flagged data per H2O profile

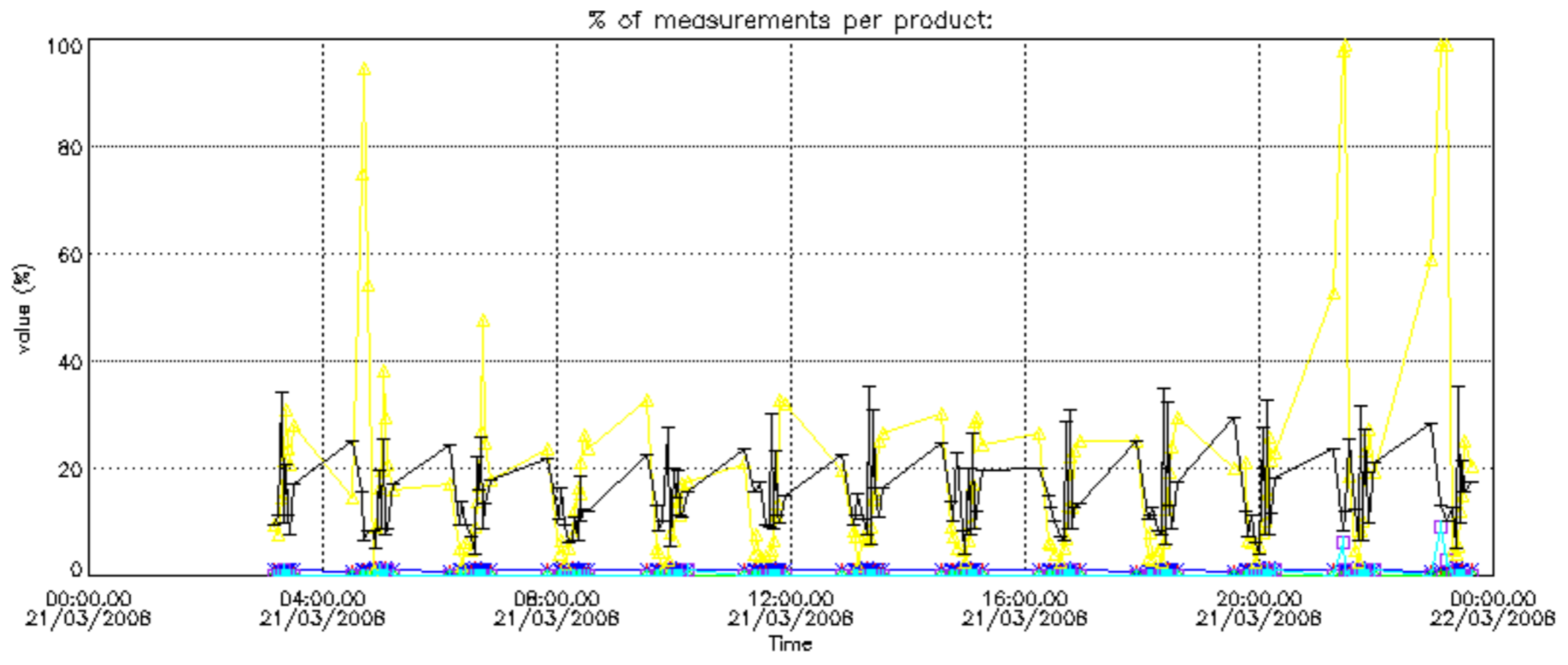


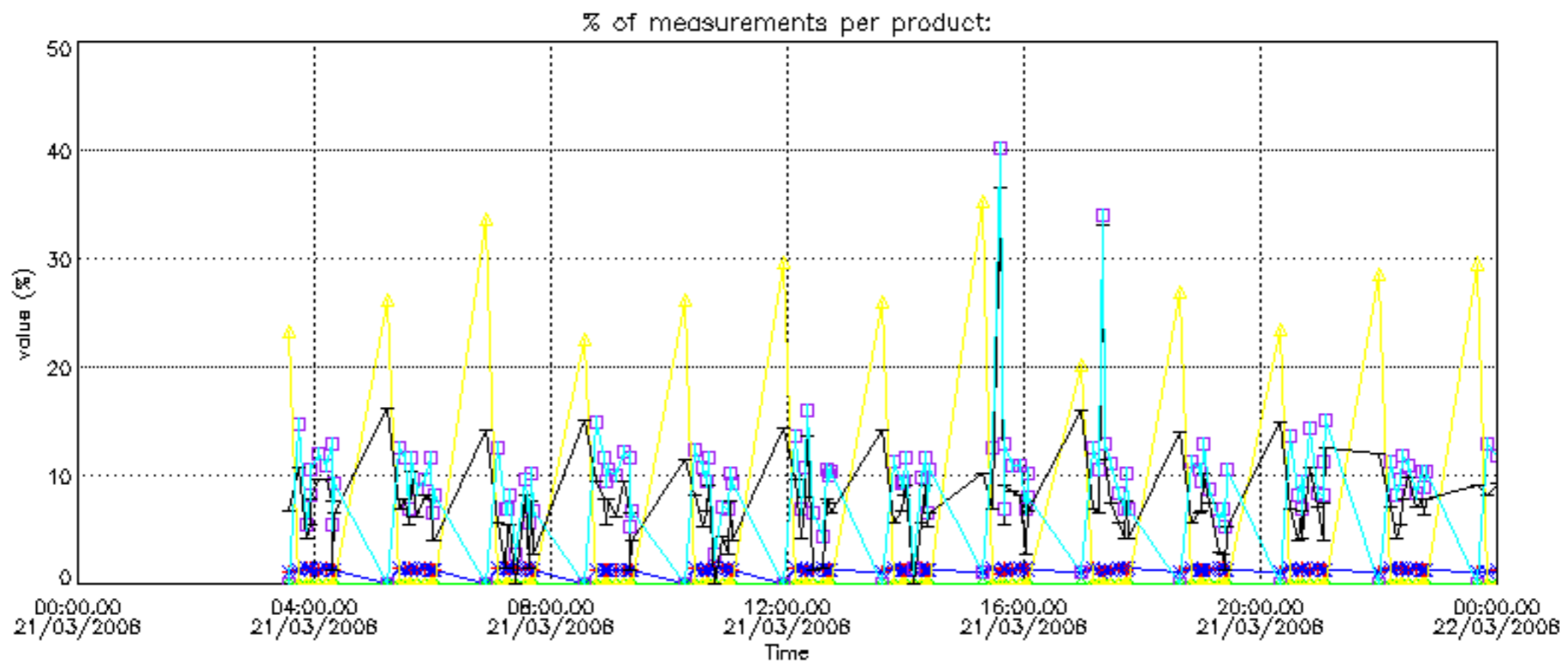
Percentage of flagged data per NO2 profile



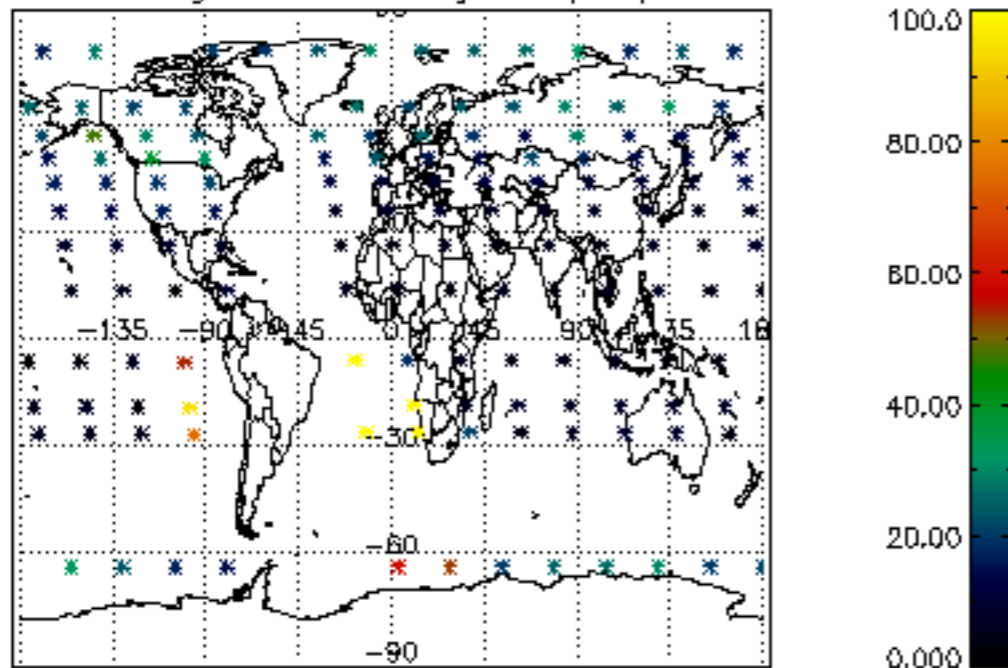
Percentage of flagged data per NO3 profile



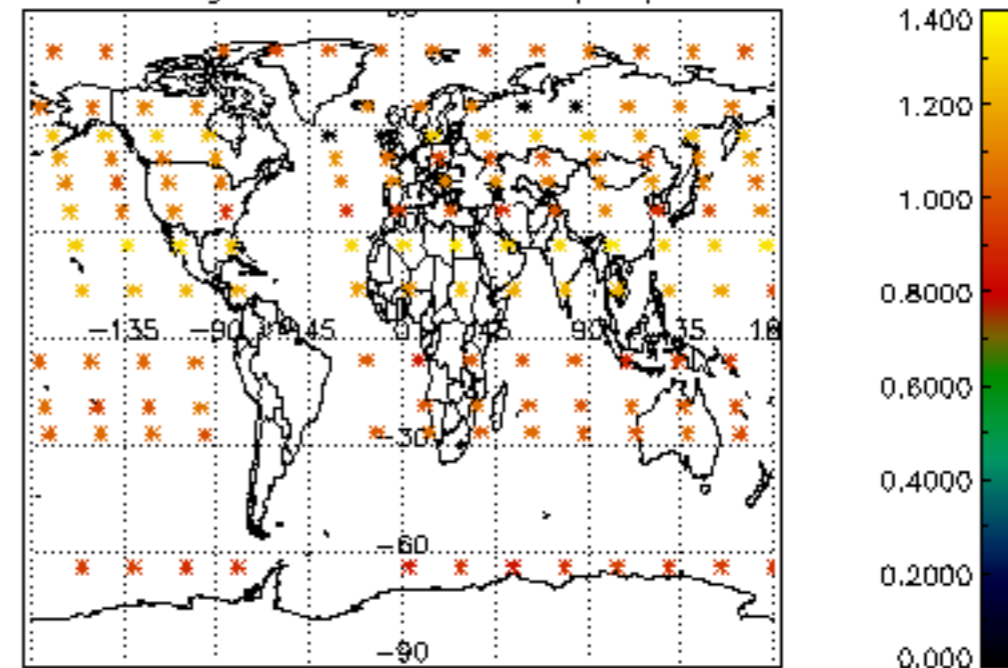




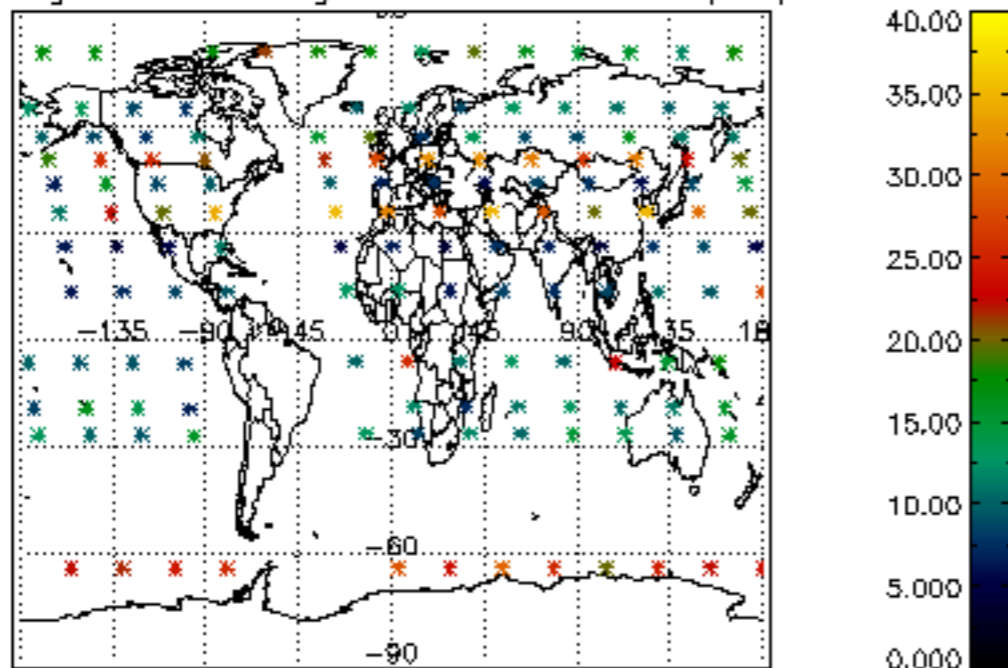
Percentage of cosmic ray hits per profile



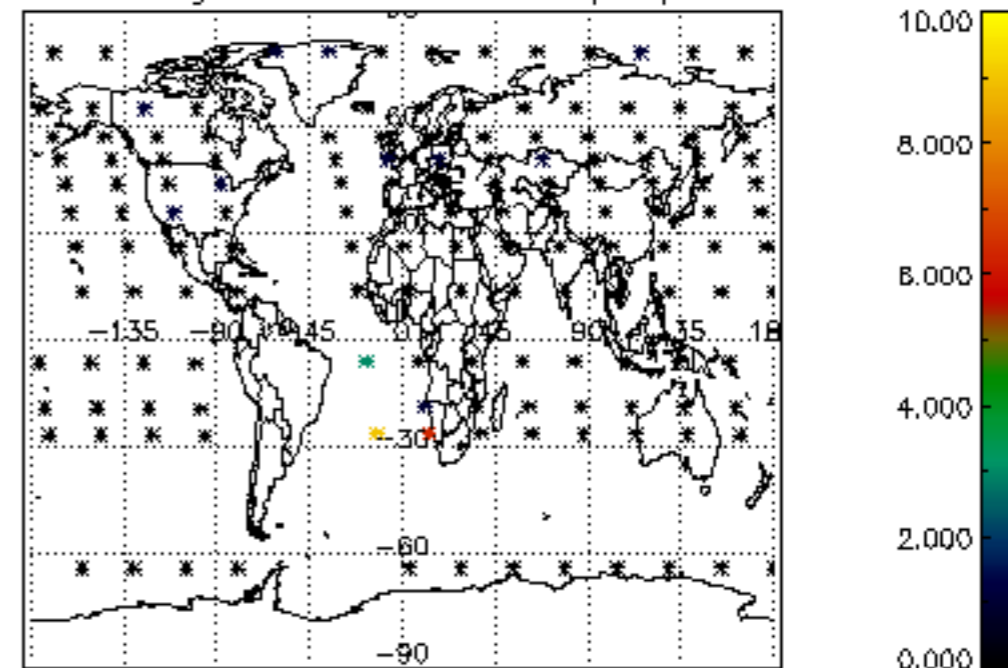
Percentage of datation errors per profile



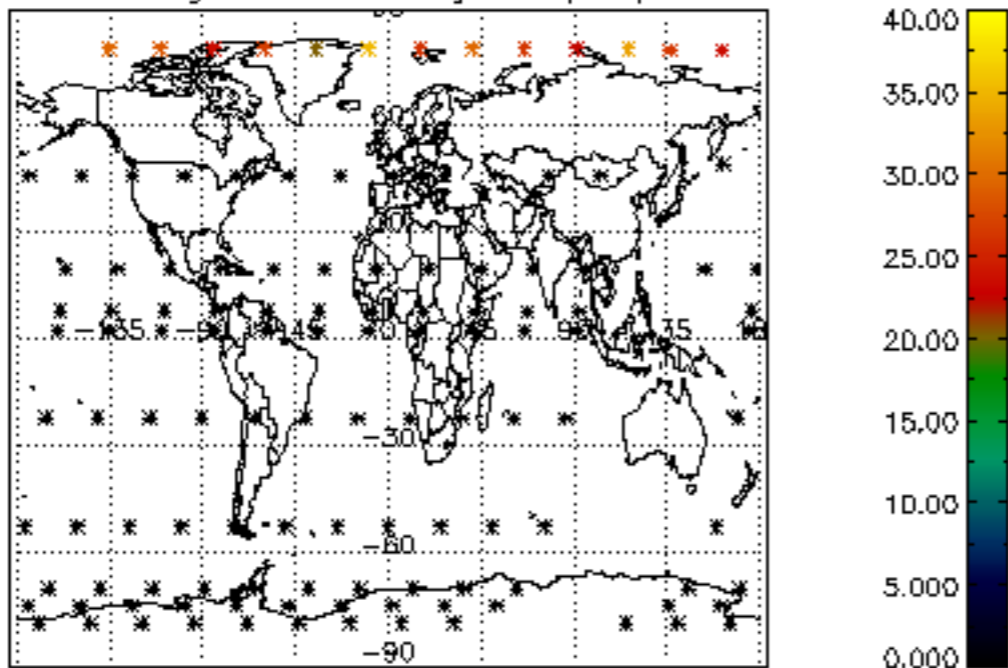
Percentage of star falling outside central band per profile



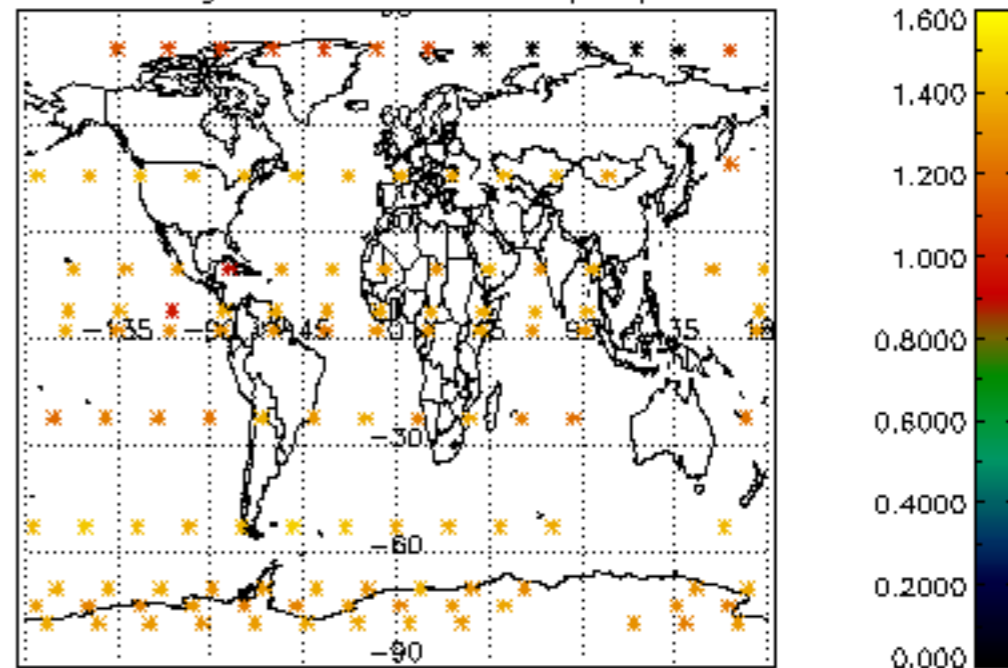
Percentage of saturation errors per profile



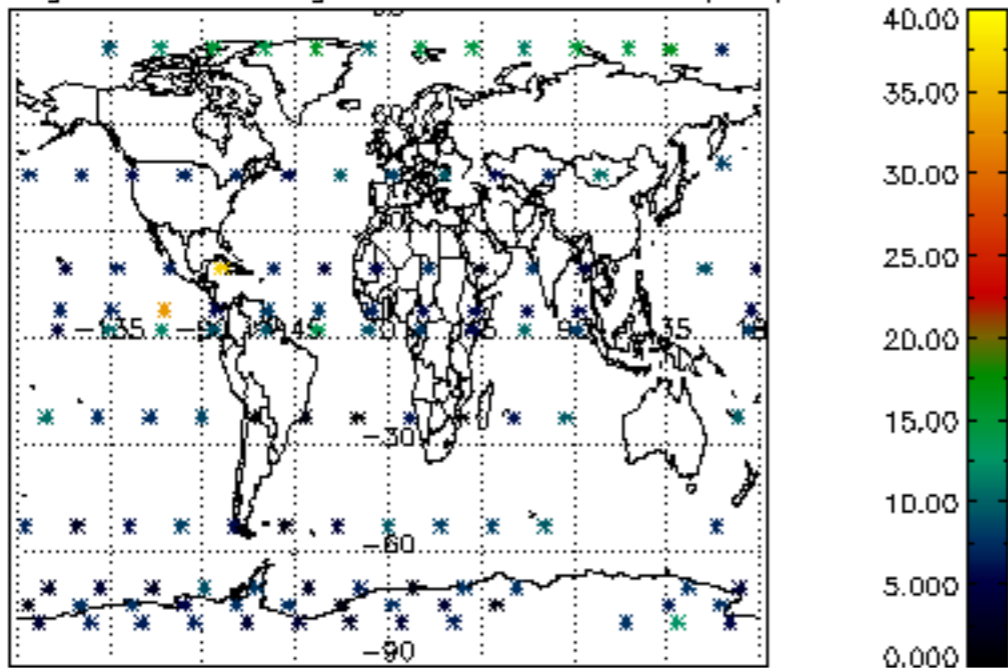
Percentage of cosmic ray hits per profile



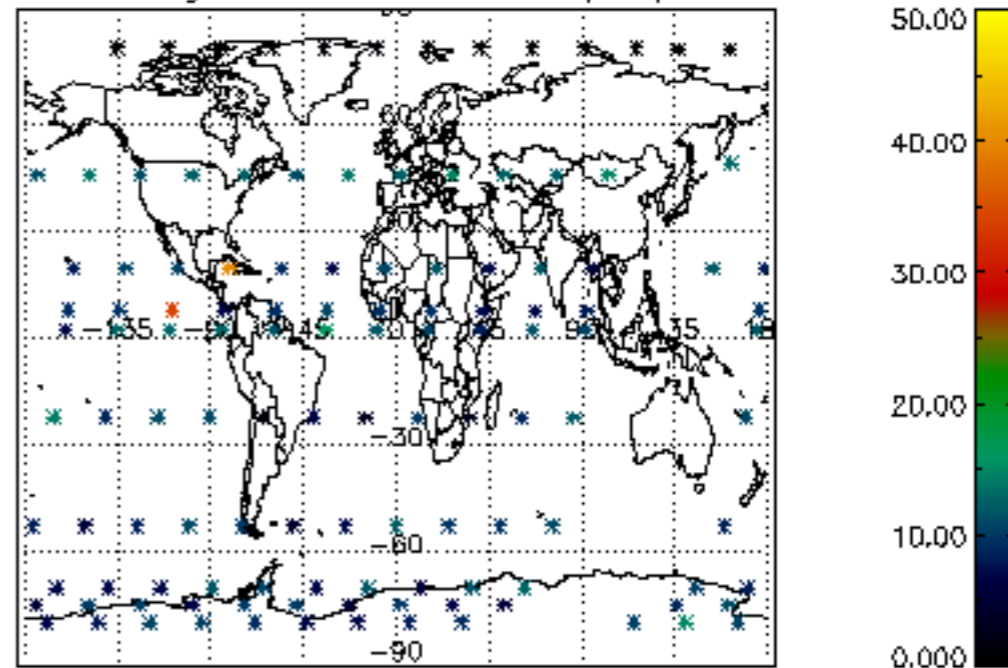
Percentage of datation errors per profile

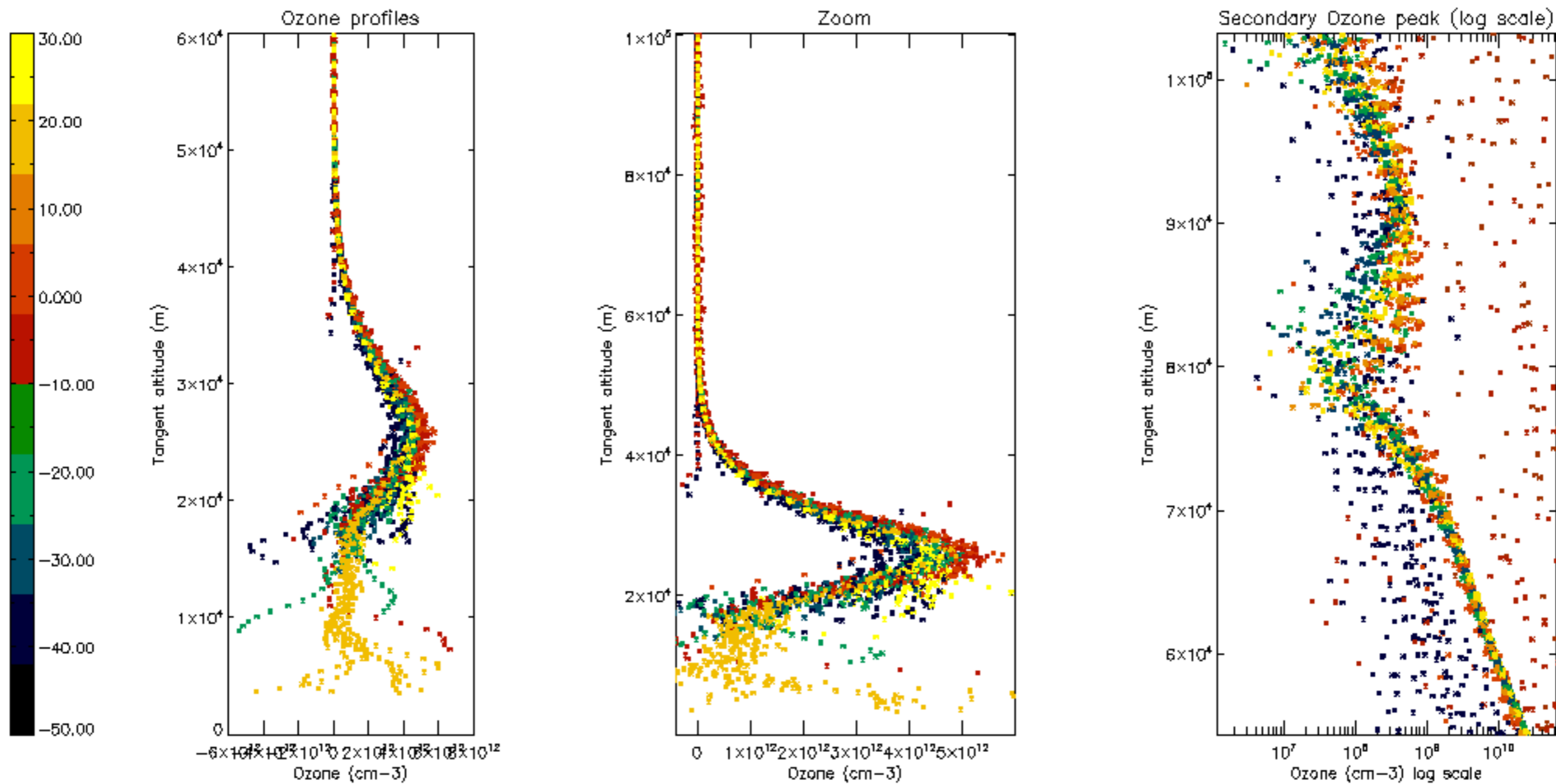


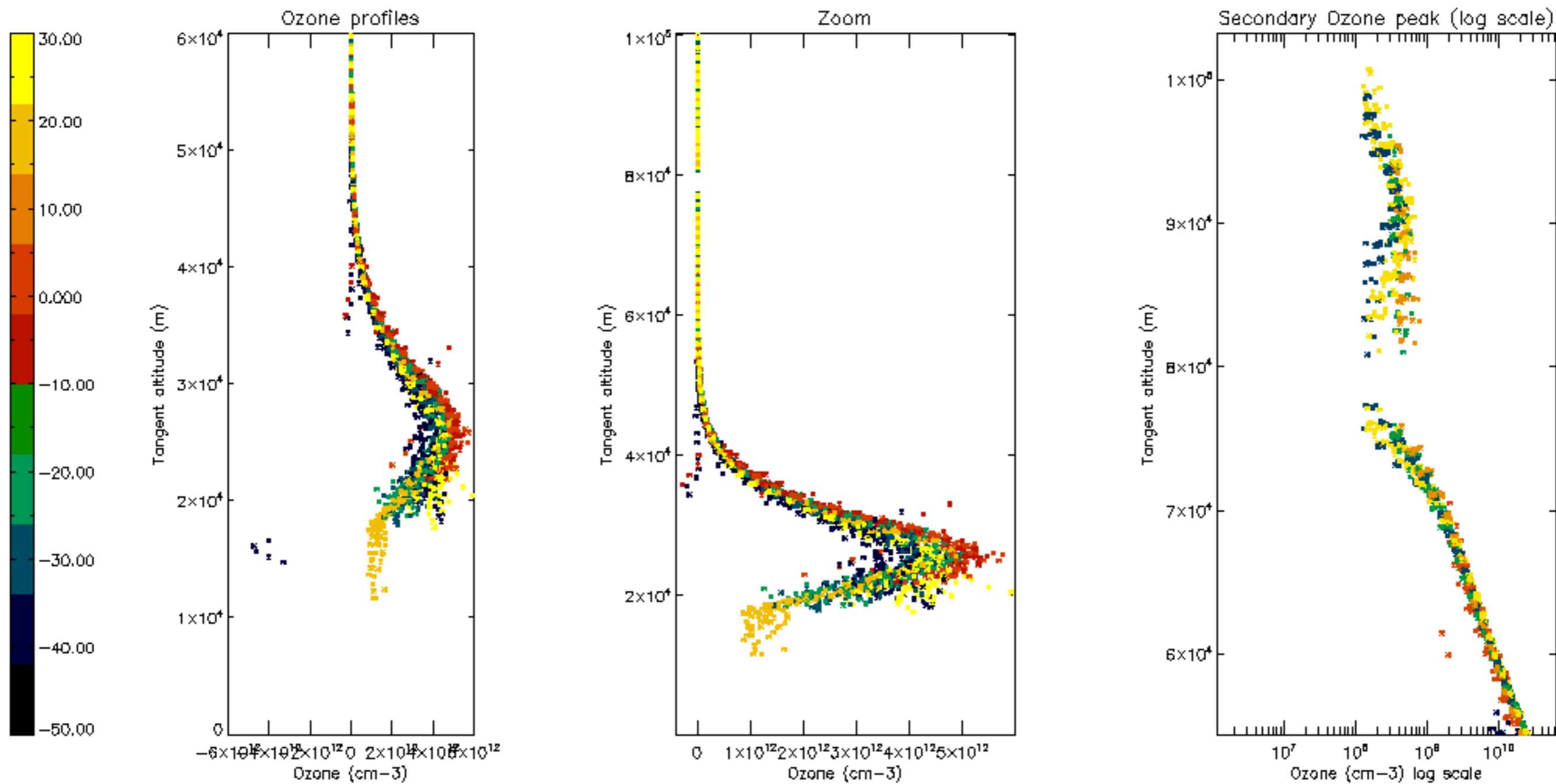
Percentage of star falling outside central band per profile

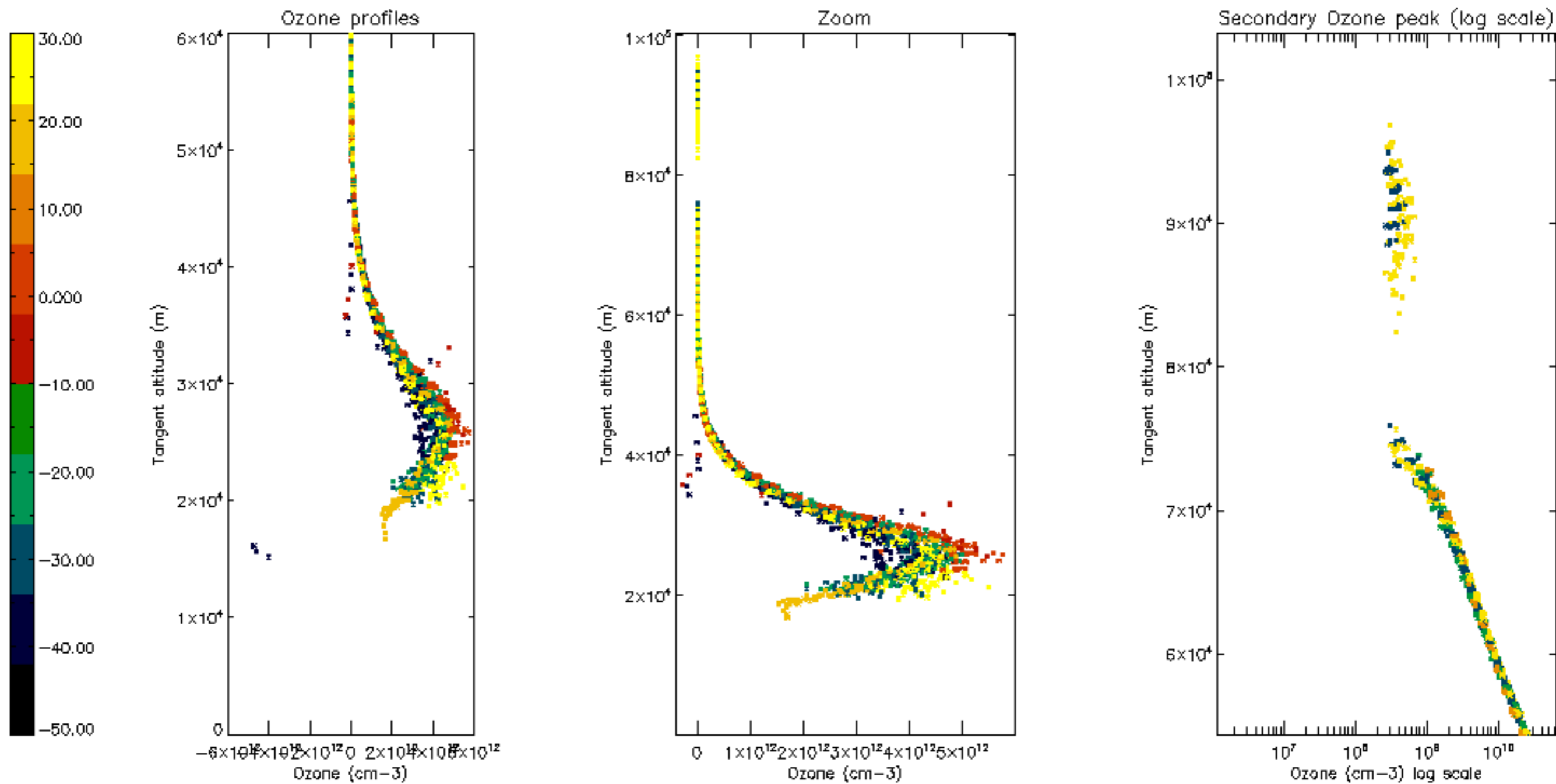


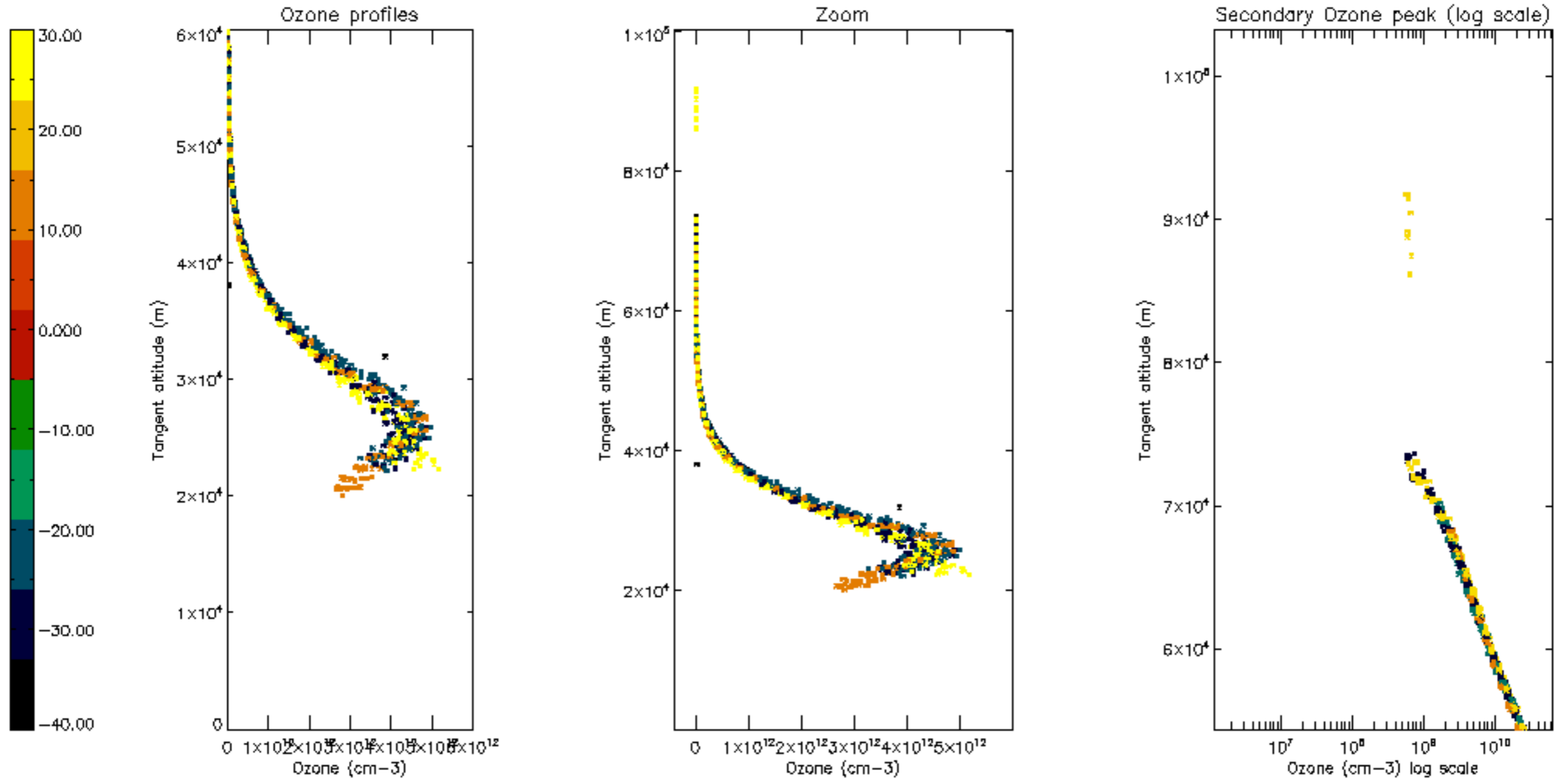
Percentage of saturation errors per profile

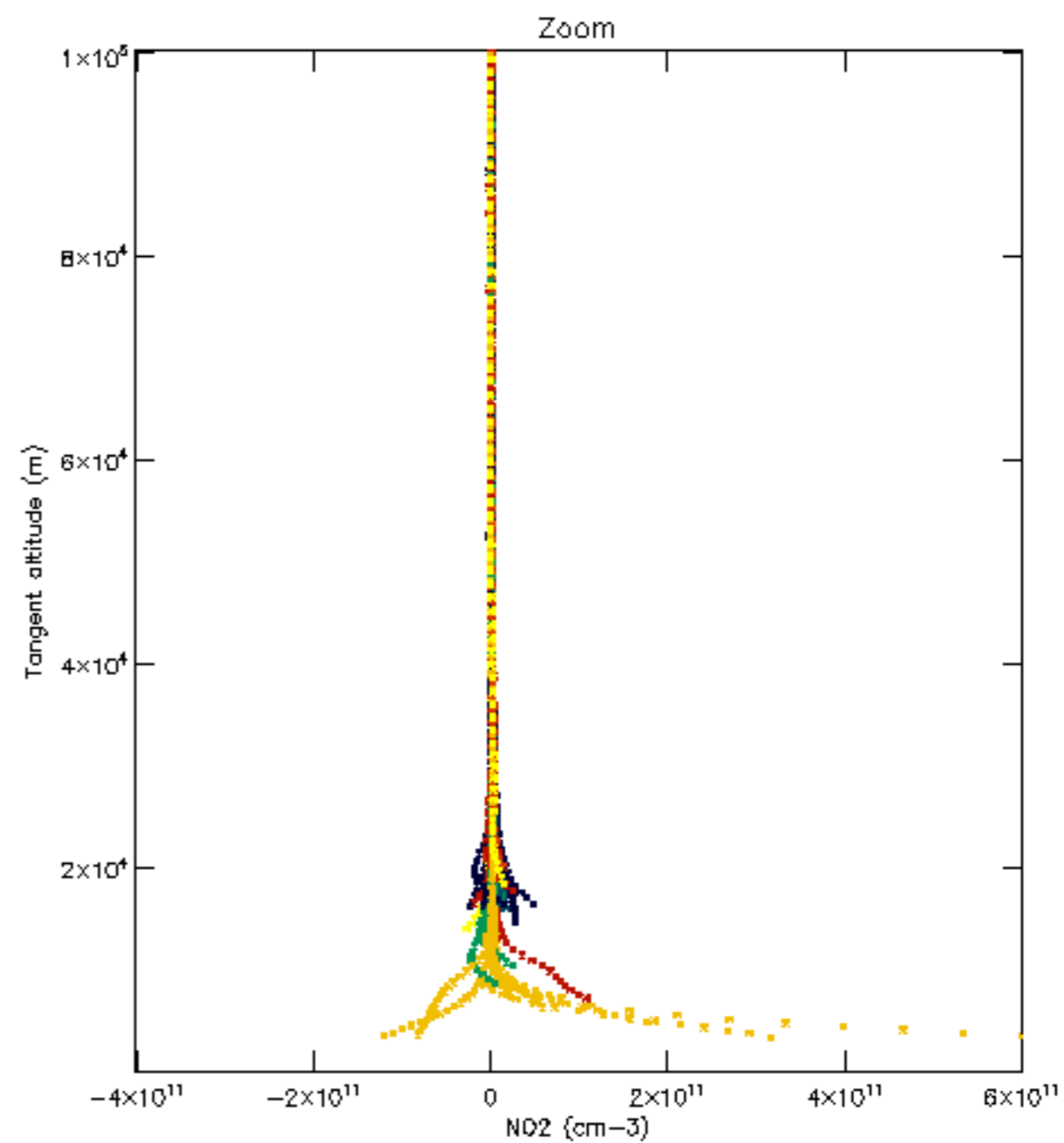
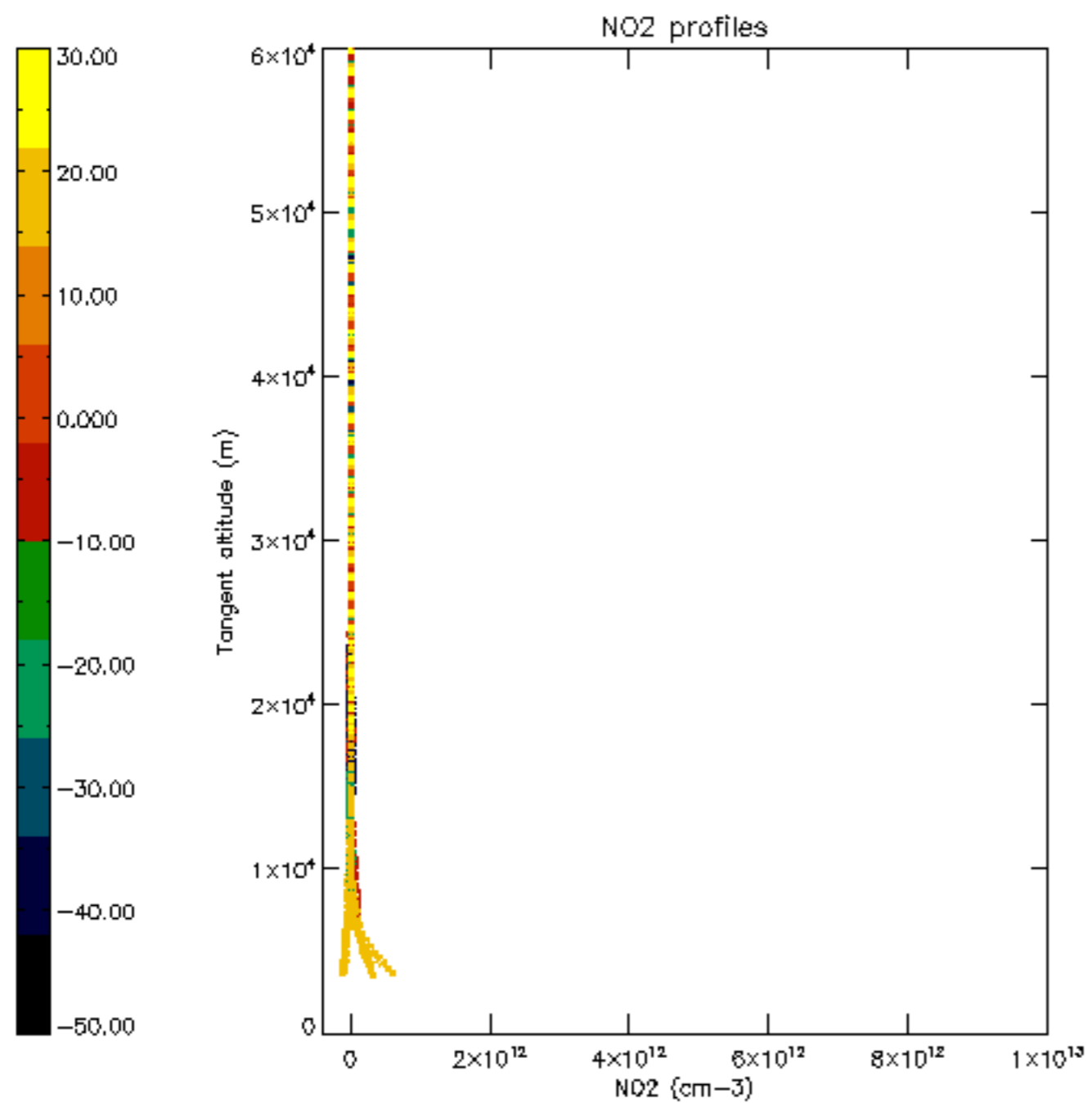


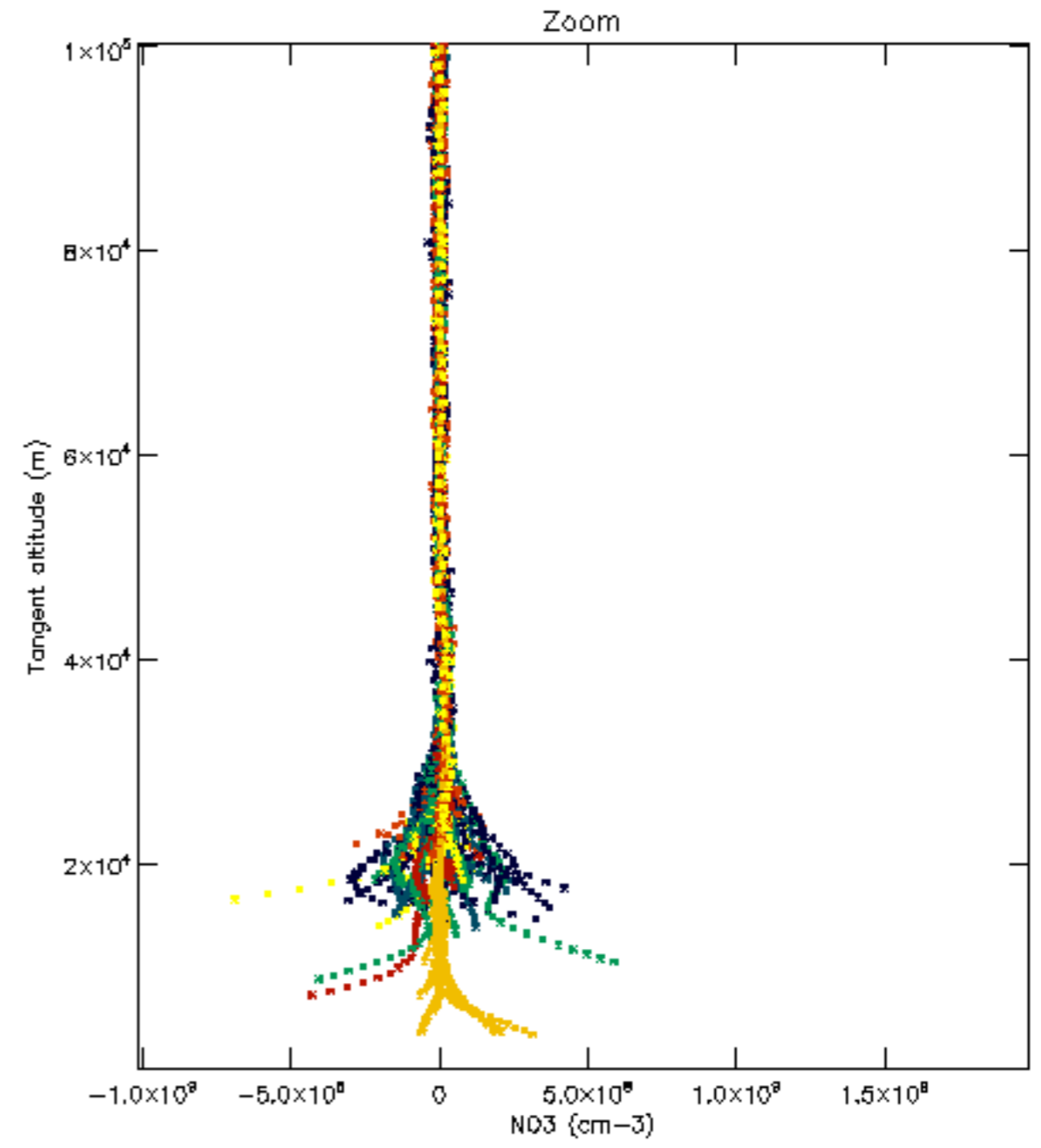
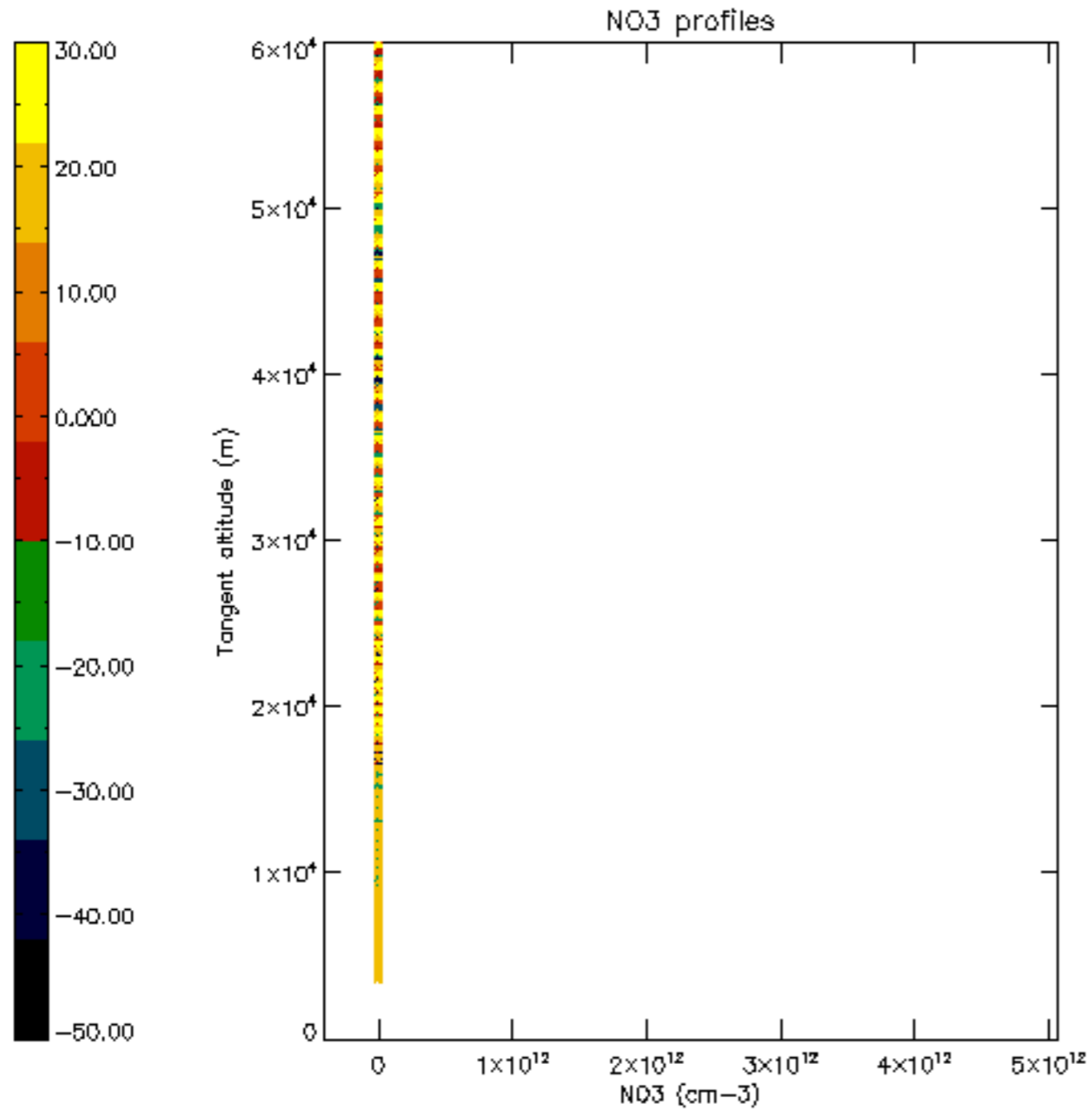


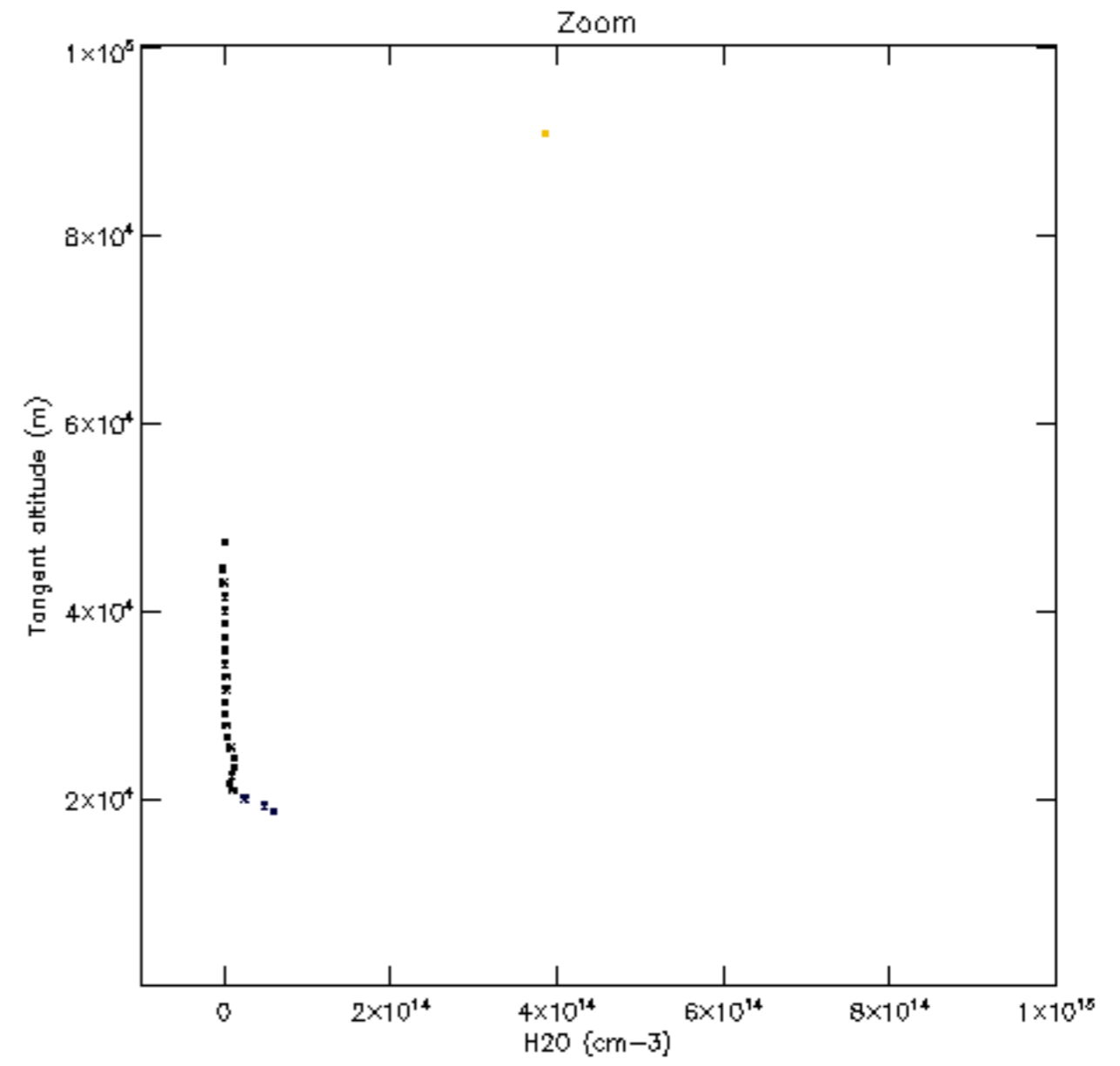
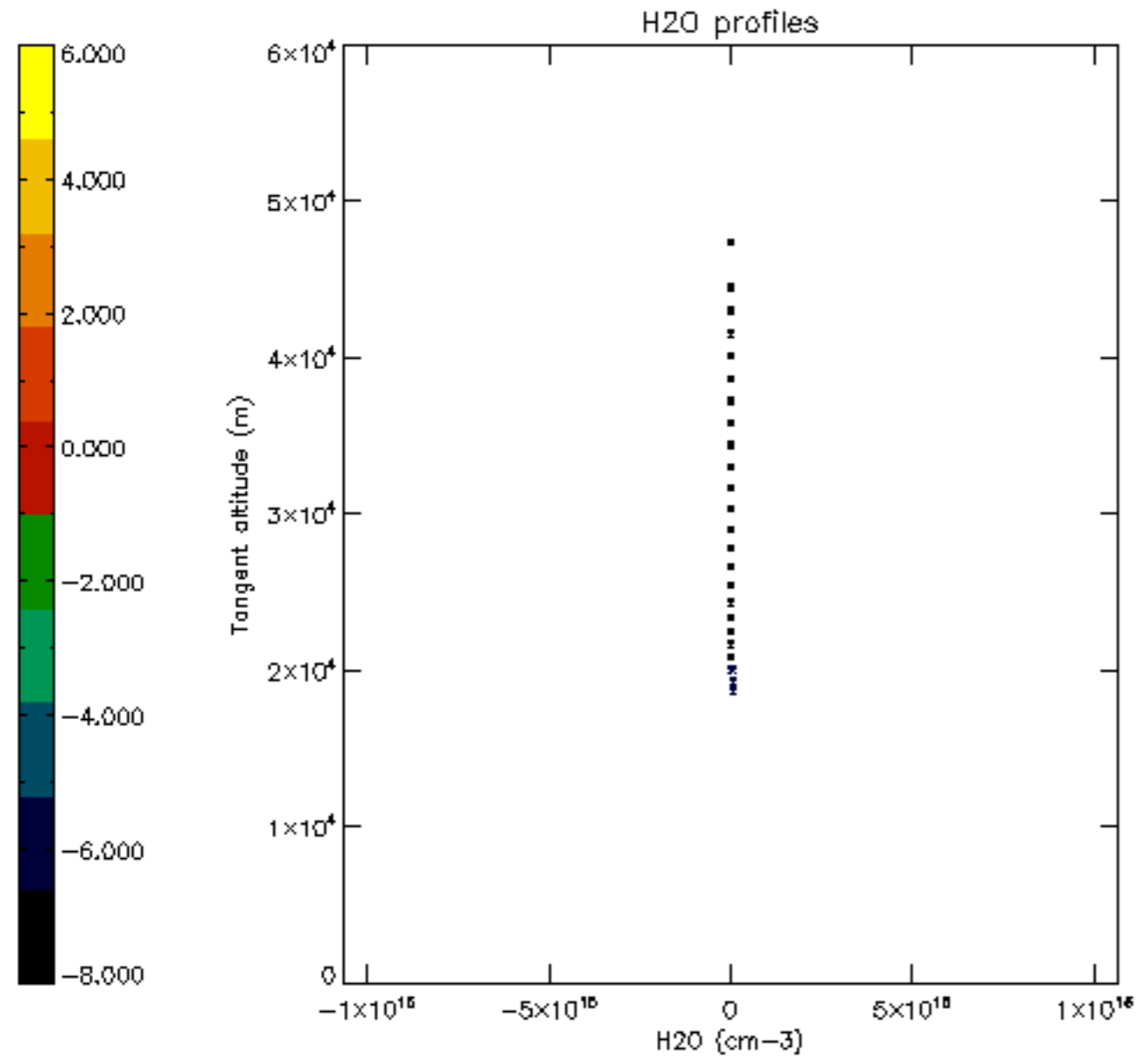


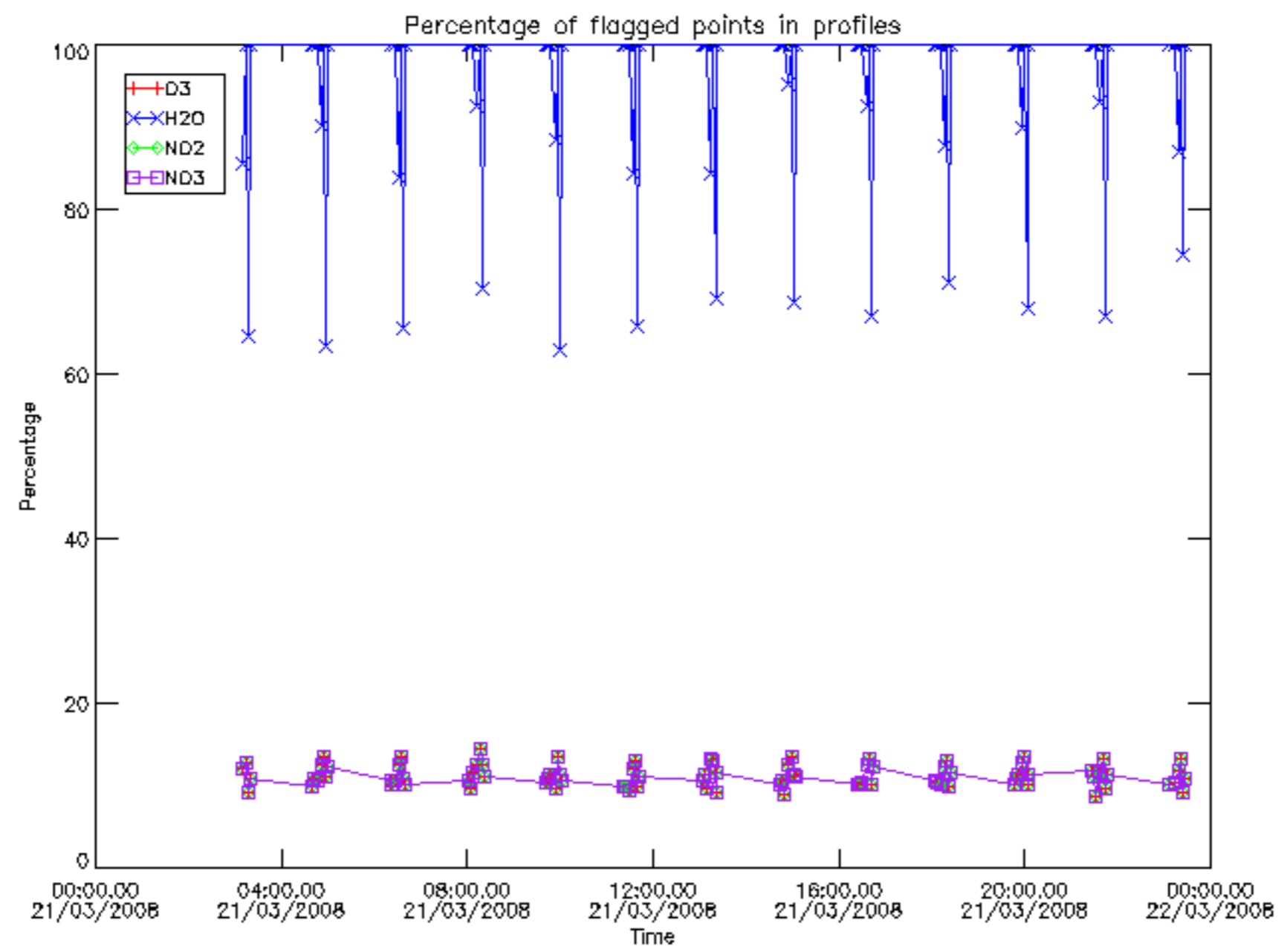




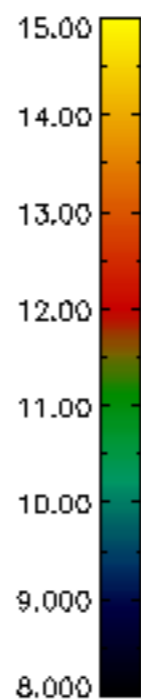
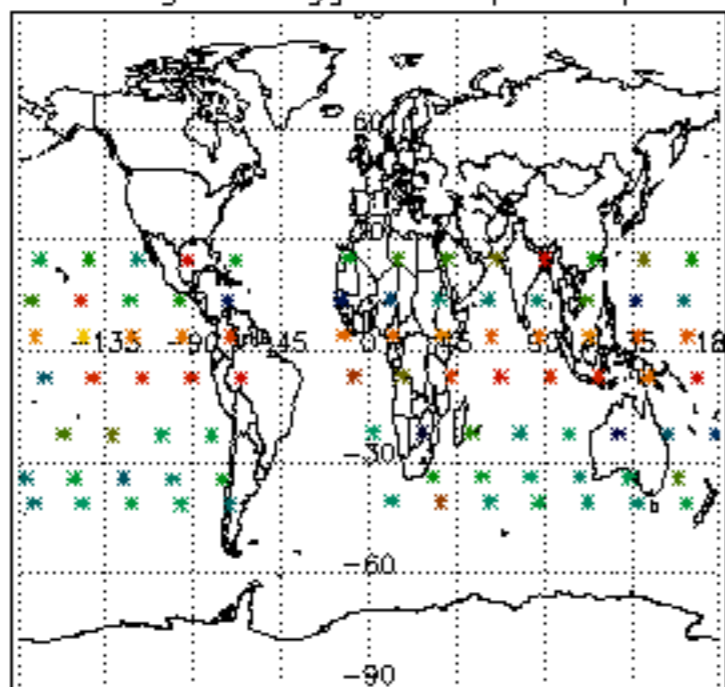




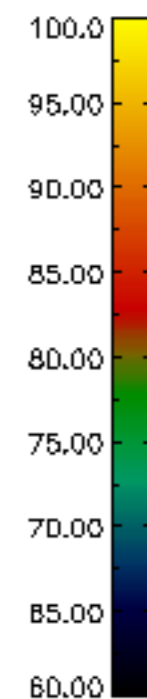
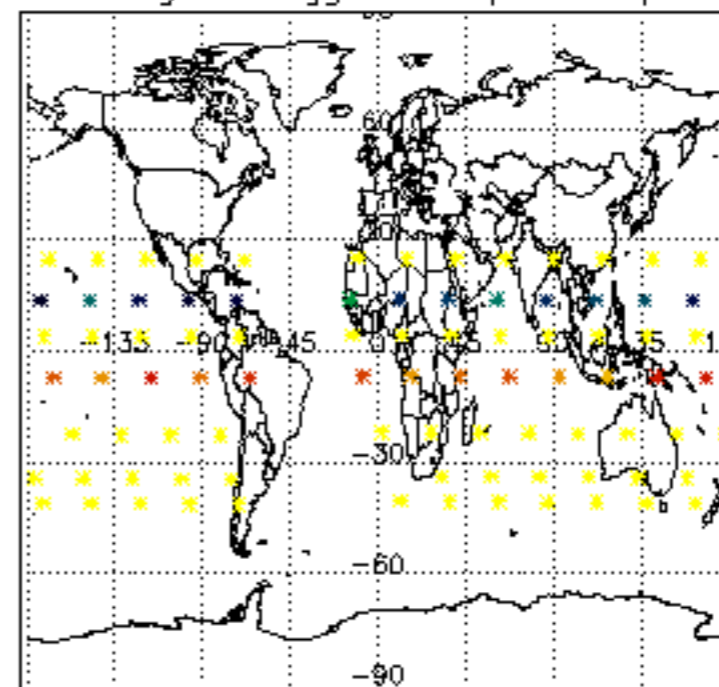




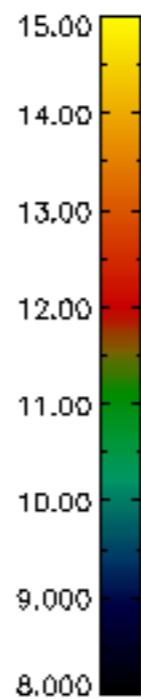
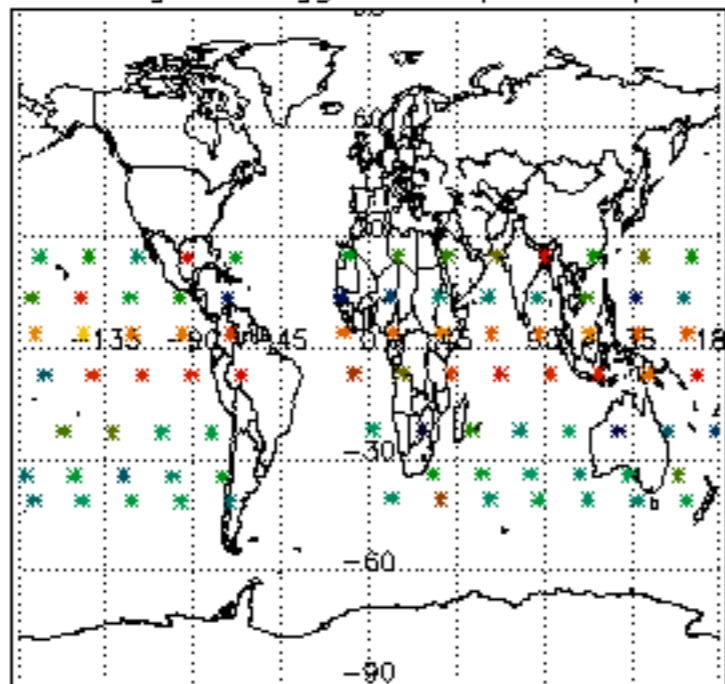
Percentage of flagged data per D3 profile



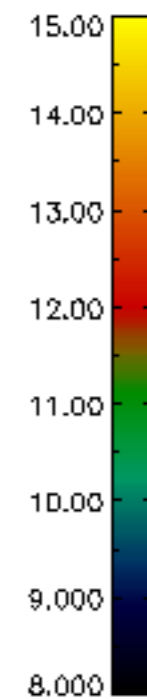
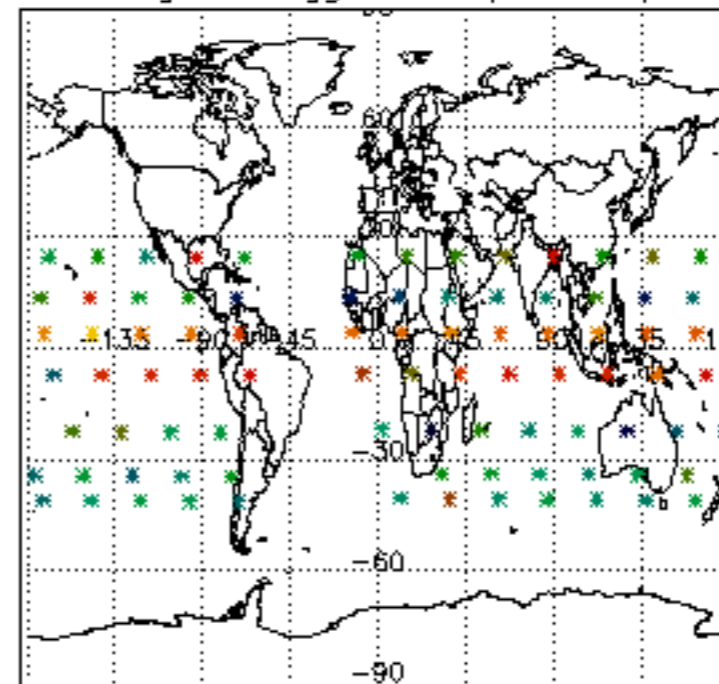
Percentage of flagged data per H2O profile

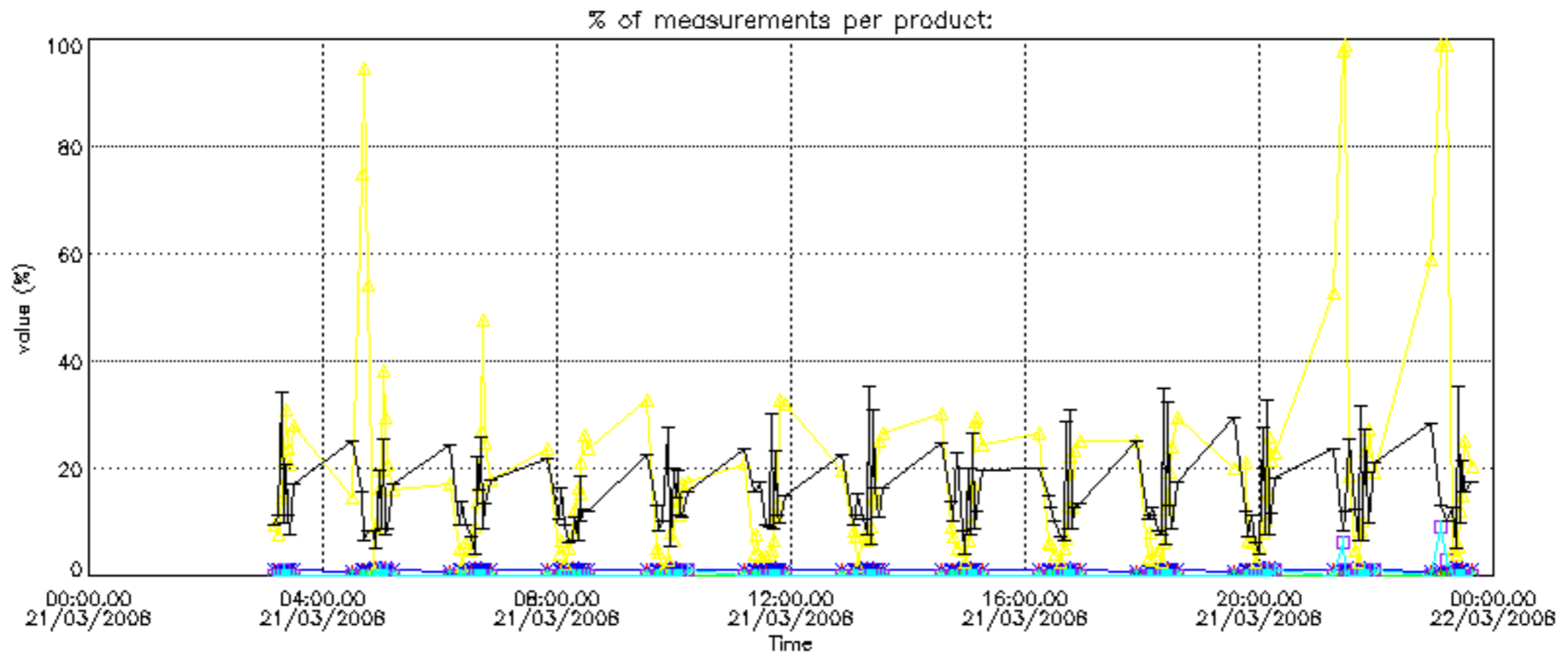


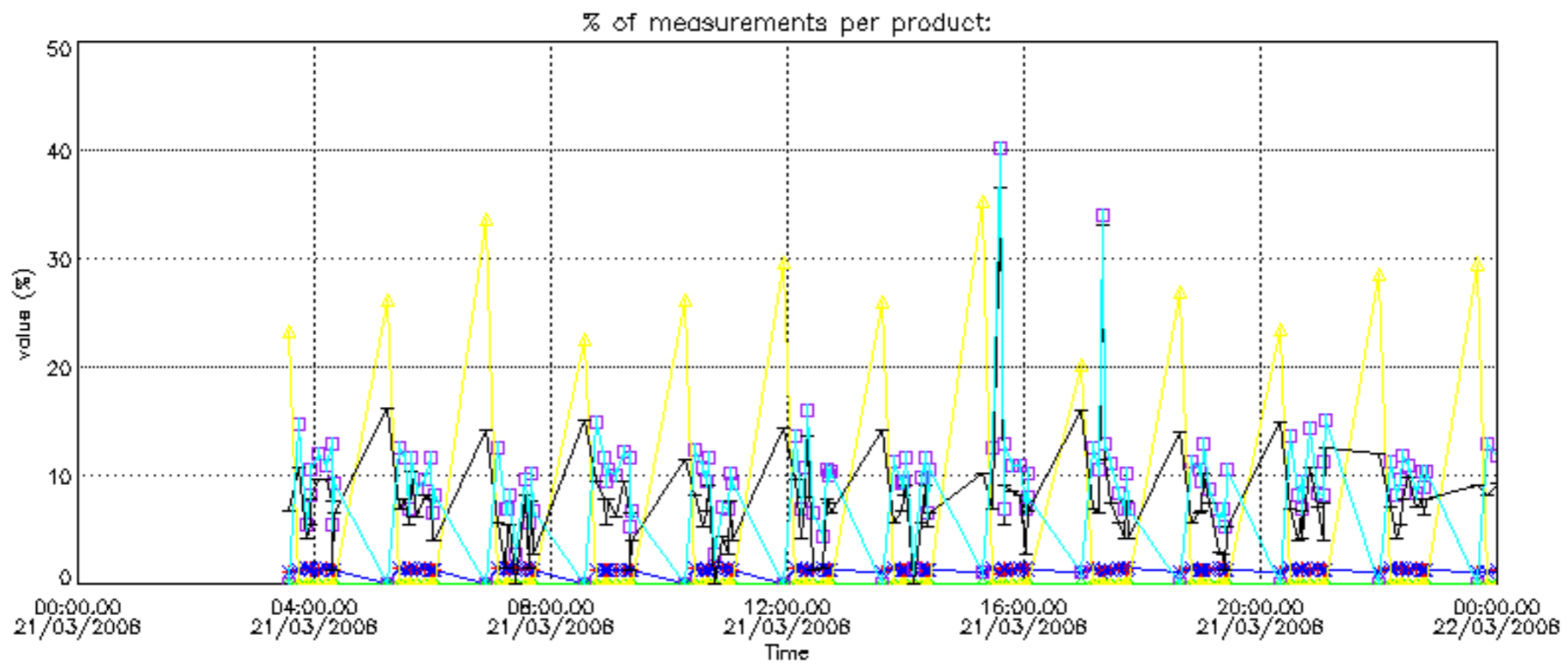
Percentage of flagged data per NO2 profile



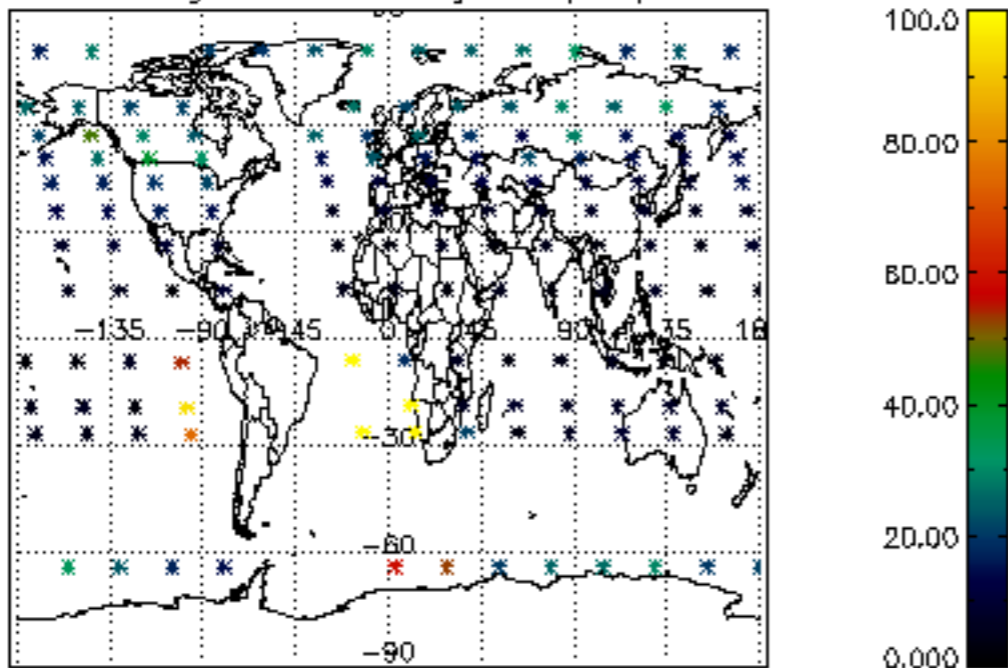
Percentage of flagged data per NO3 profile



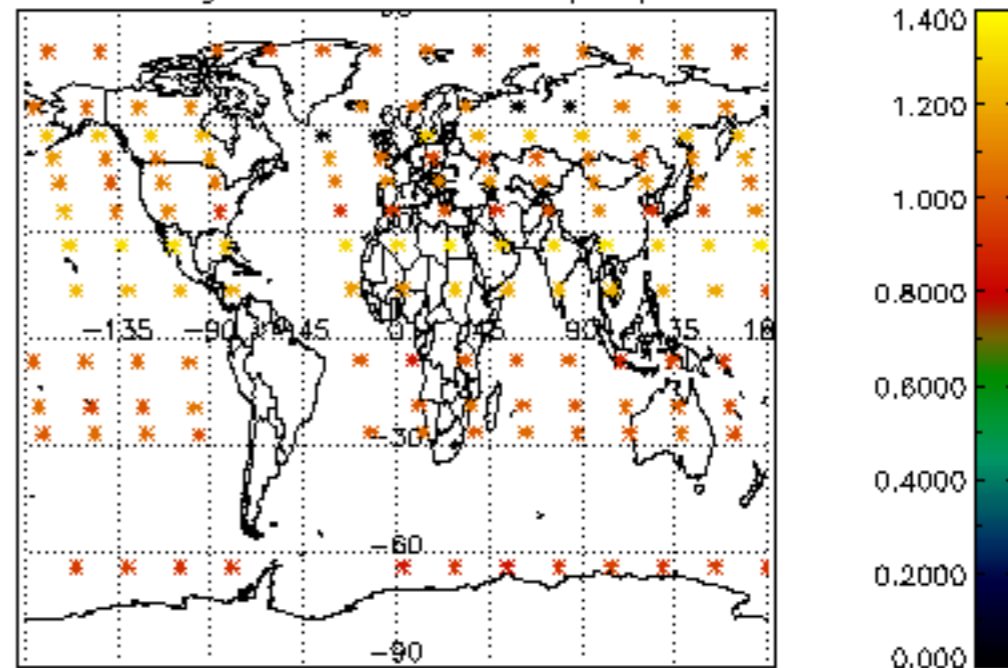




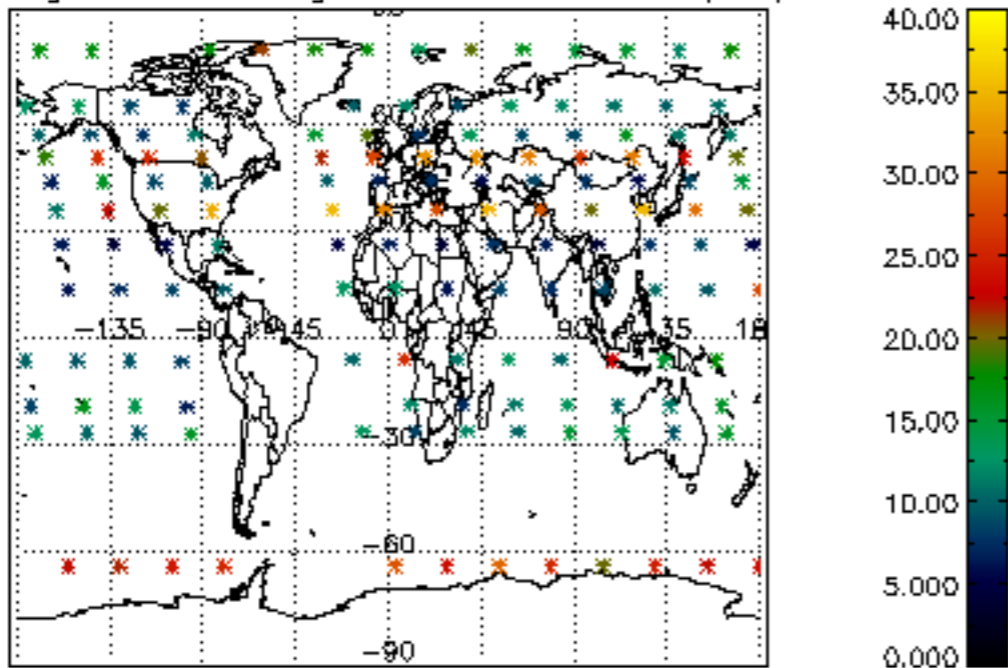
Percentage of cosmic ray hits per profile



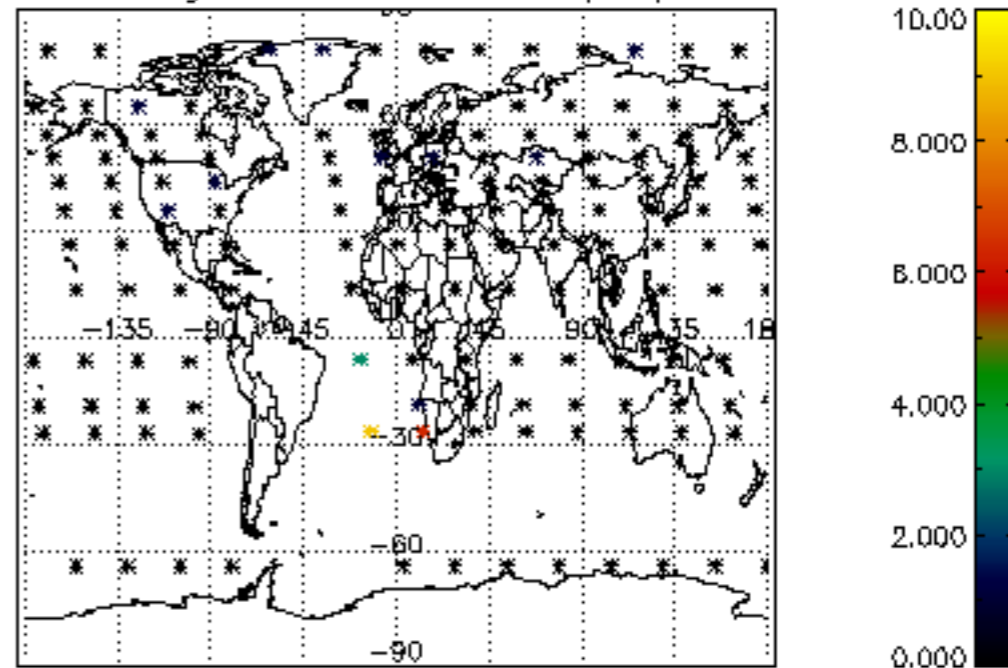
Percentage of datation errors per profile



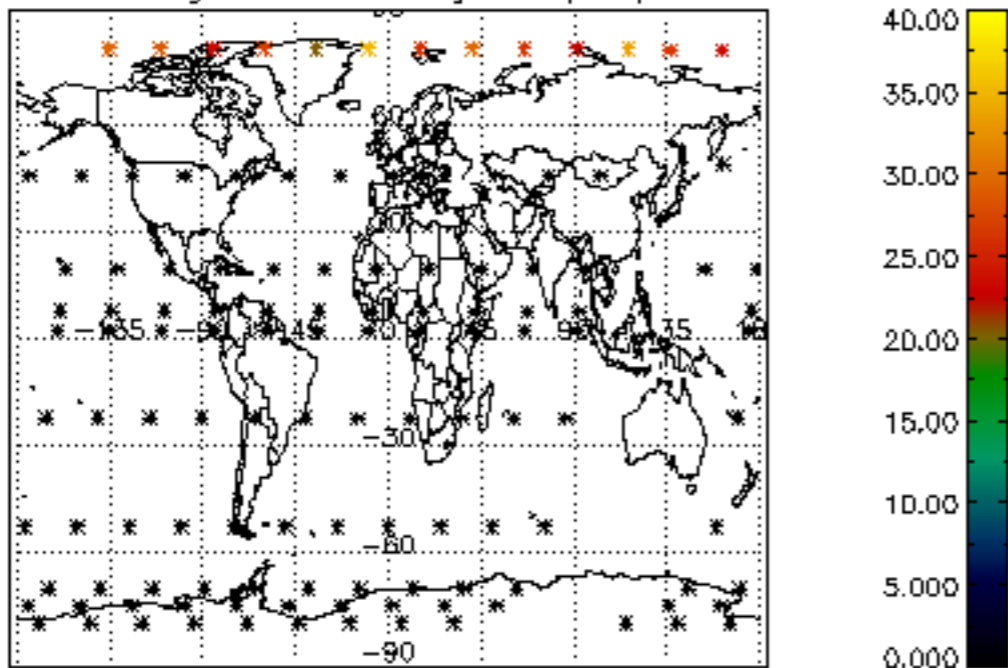
Percentage of star falling outside central band per profile



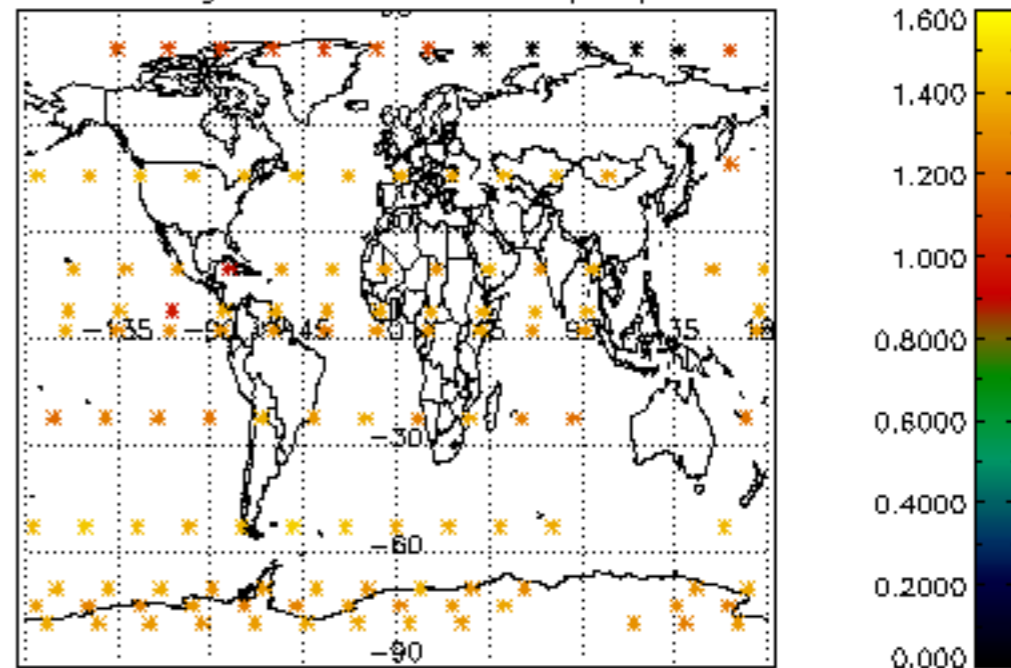
Percentage of saturation errors per profile



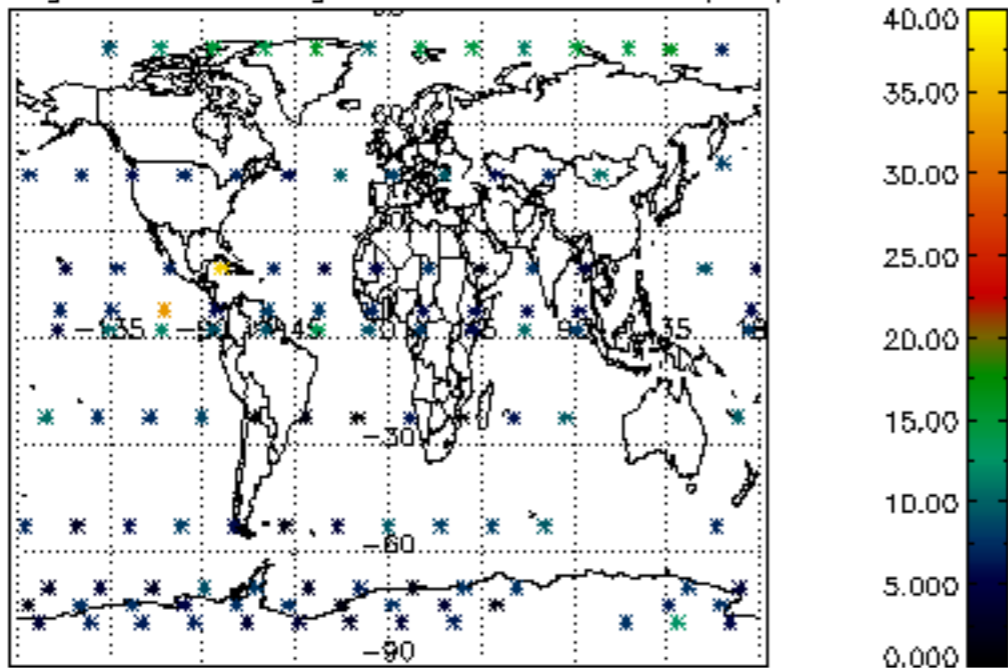
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

