

GOMOS Level 2 Daily Report

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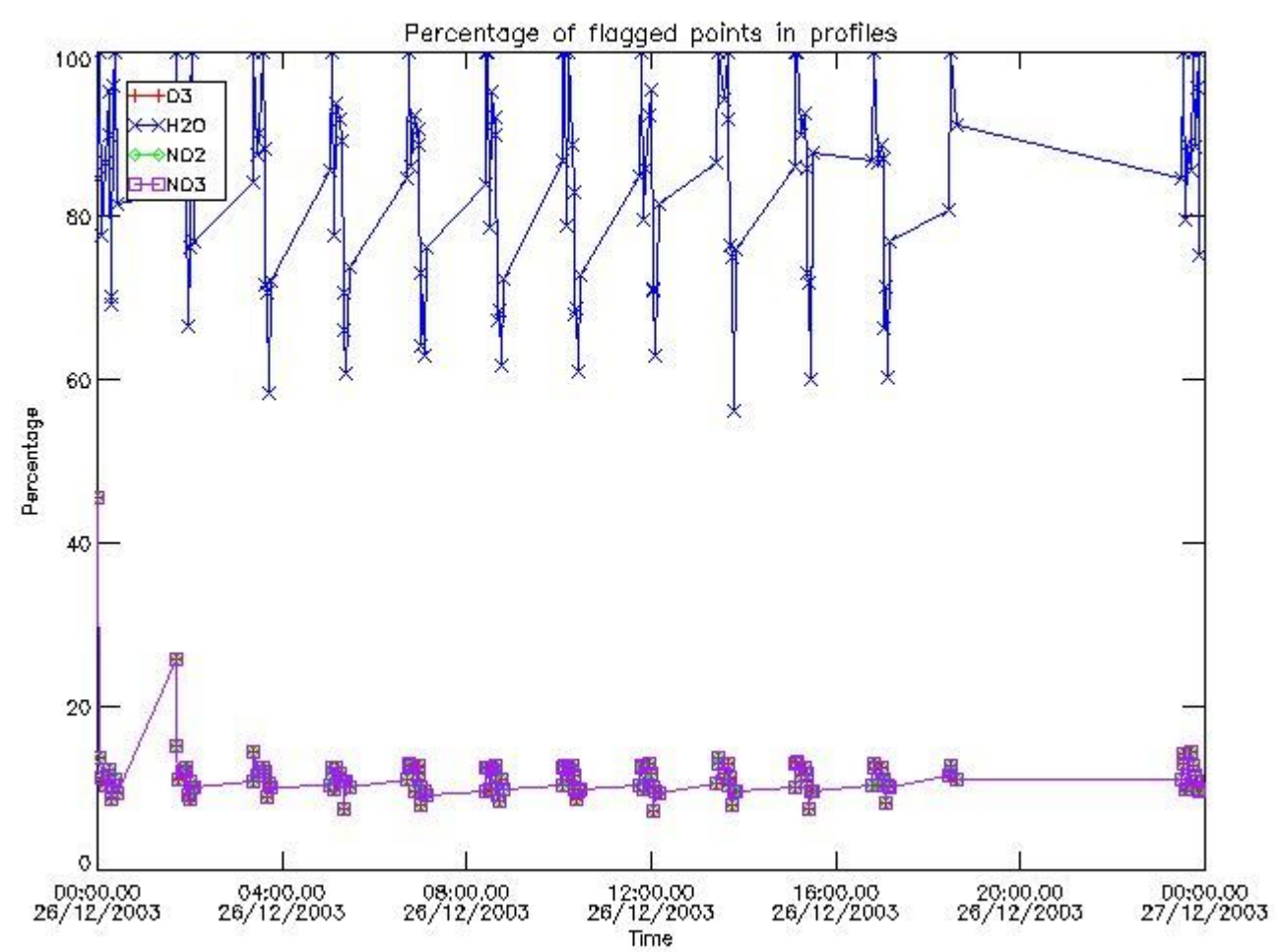
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397	GOM_NL__2PRFIN20031226_225912_000000342022_00459_09531_0287.N1	26-DEC-2003 22:59:12	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	9531	No
398	GOM_NL__2PRFIN20031226_230058_000000362022_00459_09531_0288.N1	26-DEC-2003 23:00:58	Bright	35.500	69	33Gam Dra	2.2310	3800.0	71	9531	No
399	GOM_NL__2PRFIN20031226_230238_000000432022_00459_09531_0289.N1	26-DEC-2003 23:02:38	Bright	43.000	39	85Eta UMa	1.8540	24000.	86	9531	No
400	GOM_NL__2PRFIN20031226_230624_000000422022_00459_09531_0290.N1	26-DEC-2003 23:06:24	Bright	41.500	180	27Gam Boo	3.0400	8000.0	83	9531	No
401	GOM_NL__2PRFIN20031226_230954_000000422022_00459_09531_0291.N1	26-DEC-2003 23:09:54	Bright	42.000	83		2.3780	11000.	84	9531	No
402	GOM_NL__2PRFIN20031226_231341_000000502022_00459_09531_0292.N1	26-DEC-2003 23:13:41	Bright	50.000	111	8Eta Boo	2.6800	6000.0	100	9531	No
403	GOM_NL__2PRFIN20031226_231857_000000782022_00459_09531_0293.N1	26-DEC-2003 23:18:57	Twi_and_stray	78.000	138	47Eps Vir	2.8280	4700.0	156	9531	No
404	GOM_NL__2PRFIN20031226_232227_000000432022_00459_09531_0294.N1	26-DEC-2003 23:22:27	Bright	43.000	122	9Alp2Lib	2.7470	9700.0	86	9531	No
405	GOM_NL__2PRFIN20031226_232457_000000712022_00459_09531_0295.N1	26-DEC-2003 23:24:57	Straylight	71.000	15	67Alp Vir	0.97600	28000.	142	9531	No
406	GOM_NL__2PRFIN20031226_232910_000000462022_00459_09531_0296.N1	26-DEC-2003 23:29:10	Dark	45.500	54	5The Cen	2.0550	4500.0	91	9531	No
407	GOM_NL__2PRFIN20031226_233047_000000402022_00459_09531_0297.N1	26-DEC-2003 23:30:47	Dark	39.500	78	Alp Lup	2.3040	28000.	79	9531	No
408	GOM_NL__2PRFIN20031226_233202_000000402022_00459_09531_0298.N1	26-DEC-2003 23:32:02	Dark	39.500	95	Zet Cen	2.5450	26000.	79	9531	No
409	GOM_NL__2PRFIN20031226_233407_000000522022_00459_09531_0299.N1	26-DEC-2003 23:34:07	Dark	52.000	4	Alp1Cen	-0.010000	5800.0	104	9531	No
410	GOM_NL__2PRFIN20031226_233742_000000492022_00460_09532_0262.N1	26-DEC-2003 23:37:42	Dark	49.000	12	Alp1Cru	0.77500	30000.	98	9532	No
411	GOM_NL__2PRFIN20031226_234310_000000392022_00460_09532_0263.N1	26-DEC-2003 23:43:10	Dark	38.500	29	Bet Car	1.6720	10200.	77	9532	No
412	GOM_NL__2PRFIN20031226_234443_000000442022_00460_09532_0264.N1	26-DEC-2003 23:44:43	Dark	44.000	91	Kap Vel	2.4900	26000.	88	9532	No
413	GOM_NL__2PRFIN20031226_234611_000000442022_00460_09532_0265.N1	26-DEC-2003 23:46:11	Dark	44.000	46	Del Vel	1.9540	10600.	88	9532	No
414	GOM_NL__2PRFIN20031226_234905_000000472022_00460_09532_0266.N1	26-DEC-2003 23:49:05	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	9532	No
415	GOM_NL__2PRFIN20031226_235117_000000512022_00460_09532_0267.N1	26-DEC-2003 23:51:17	Dark	51.000	70	Zet Pup	2.2460	39000.	102	9532	No
416	GOM_NL__2PRFIN20031226_235333_000000532022_00460_09532_0268.N1	26-DEC-2003 23:53:33	Dark	53.000	117	Pi Pup	2.7060	3800.0	106	9532	No
417	GOM_NL__2PRFIN20031226_235628_000000522022_00460_09532_0269.N1	26-DEC-2003 23:56:28	Straylight	51.500	23	21Eps CMa	1.5020	26000.	103	9532	No
418	GOM_NL__2PRFIN20031226_235806_000000532022_00460_09532_0270.N1	26-DEC-2003 23:58:06	Straylight	53.000	179	24Omi2CMa	3.0320	24000.	106	9532	No

3. Quality information per product

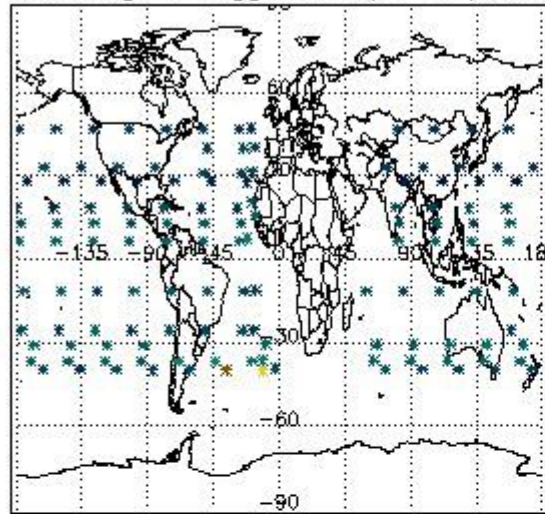
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

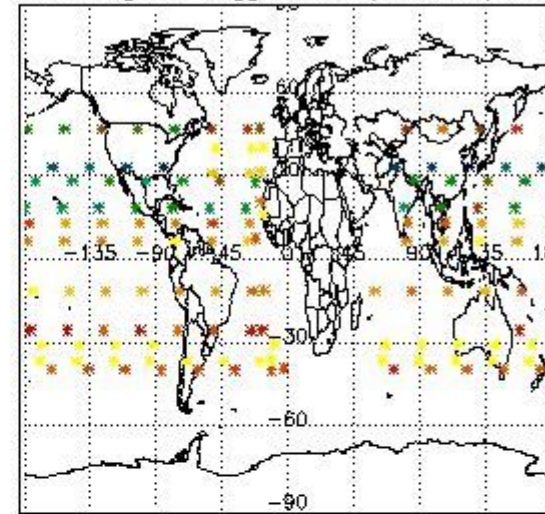


3.2 Plot quality information per product (world map)

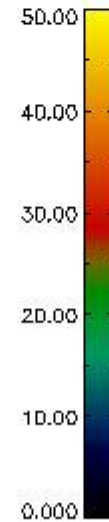
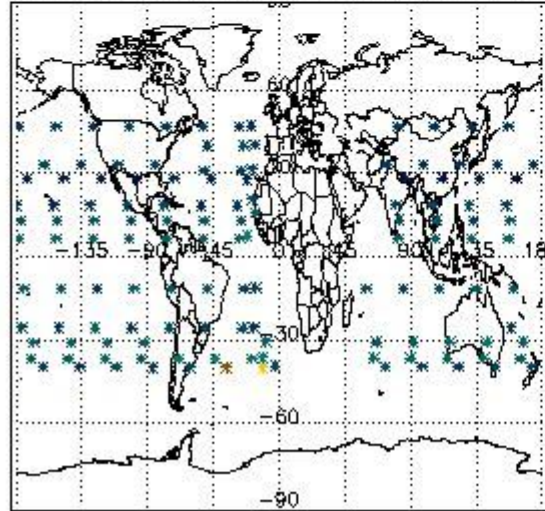
Percentage of flagged data per O3 profile



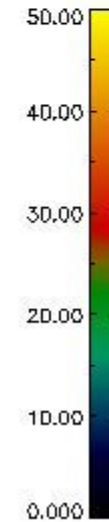
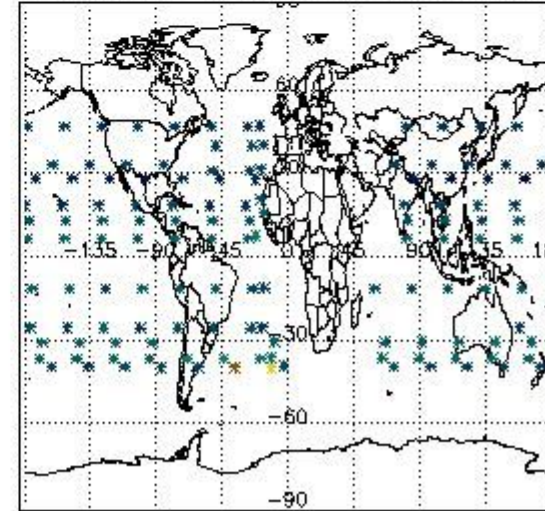
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

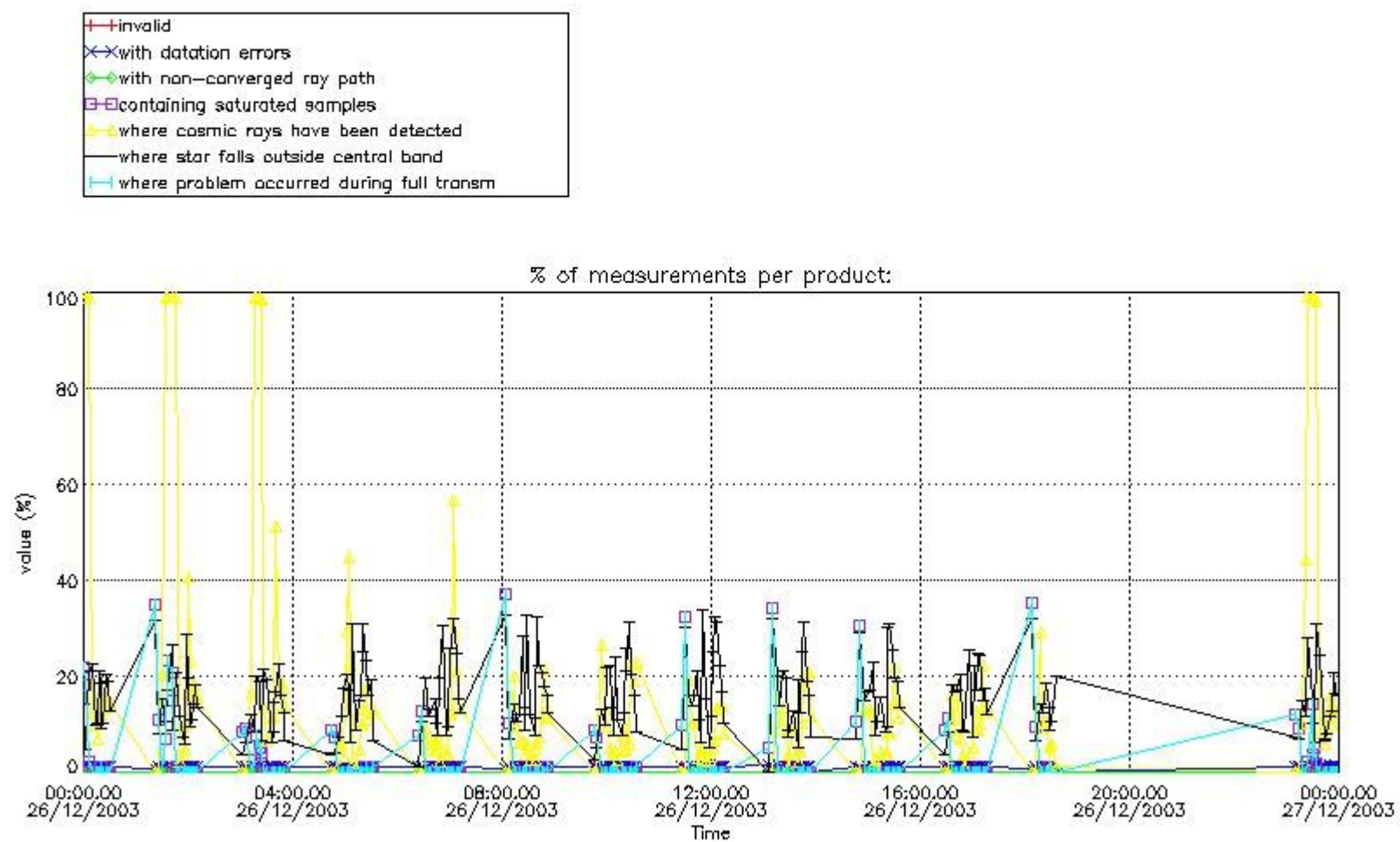


4. Level 1 quality information per product

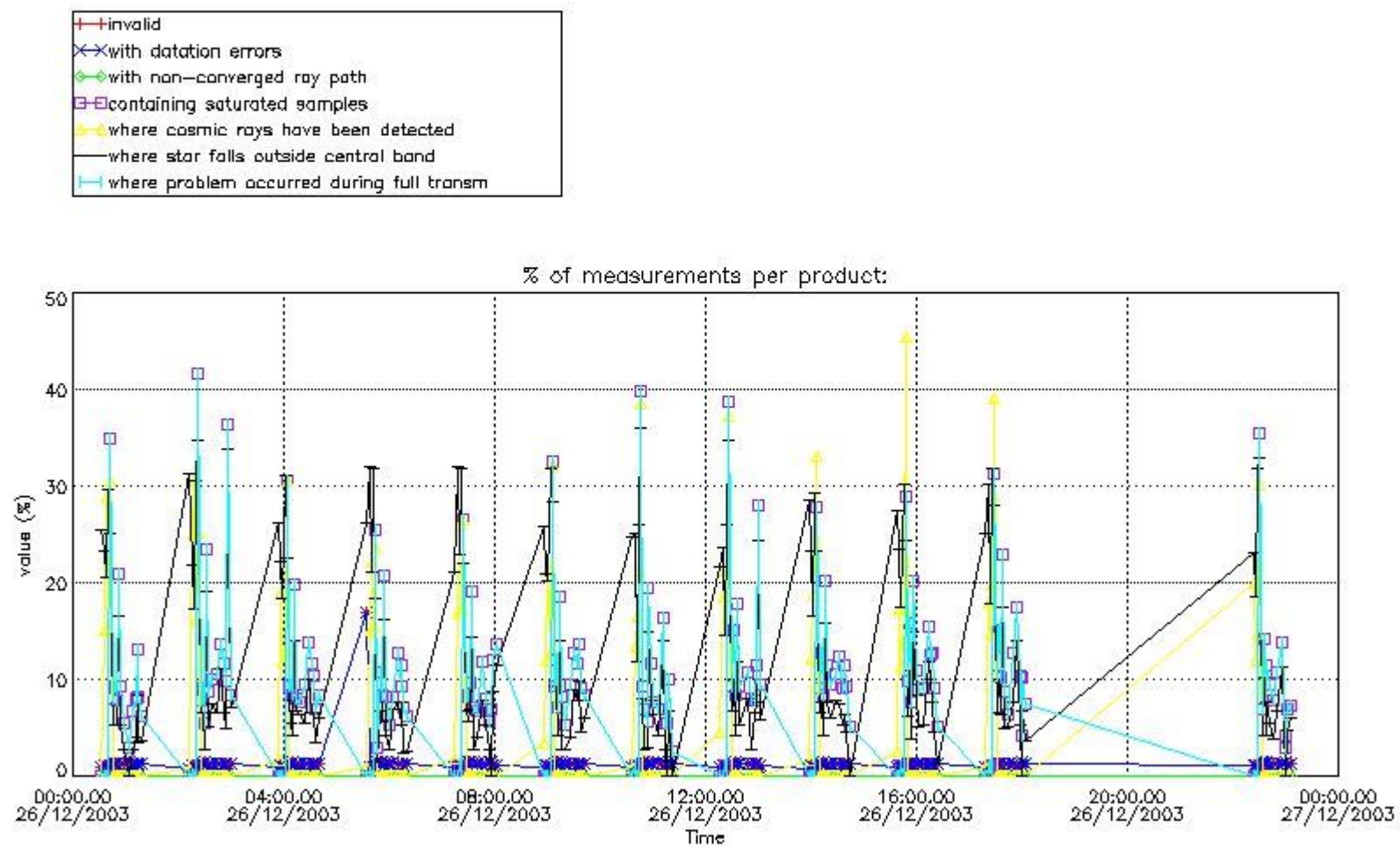
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



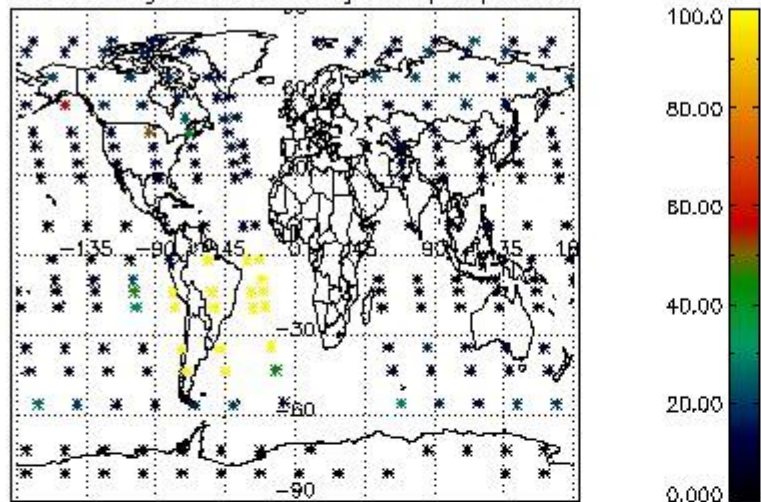
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



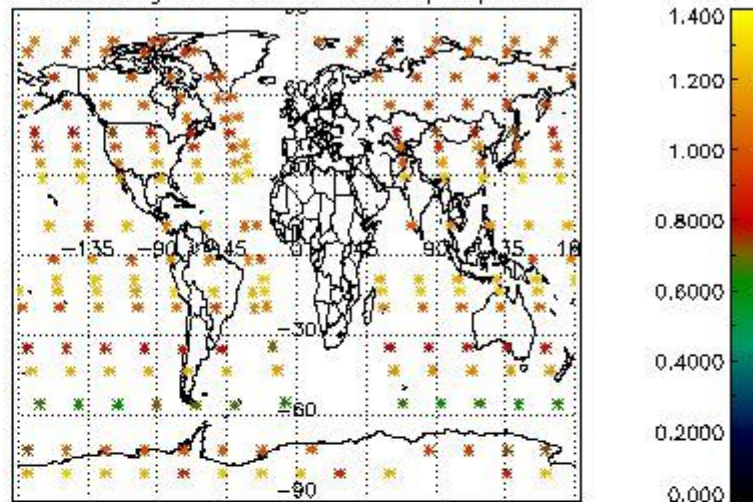
4.2 Plot quality information per product coming from level 1b processing (world map)

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

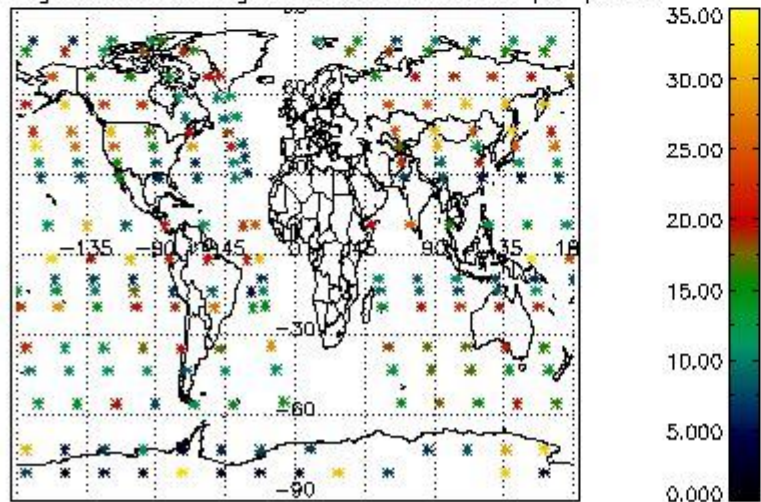
Percentage of cosmic ray hits per profile



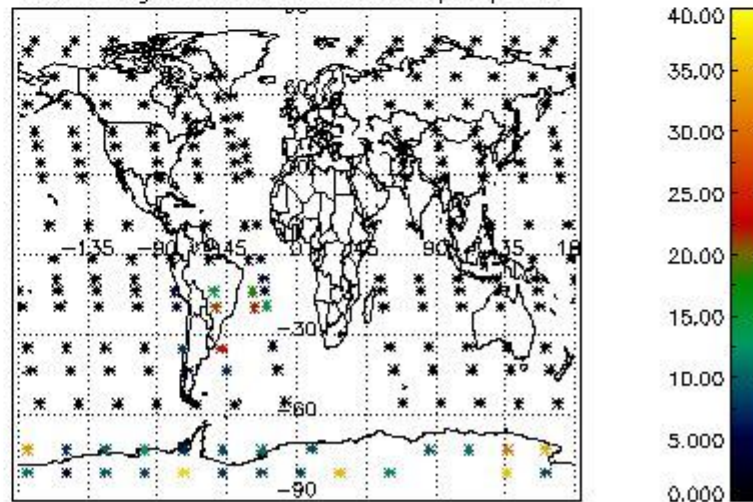
Percentage of datation errors per profile



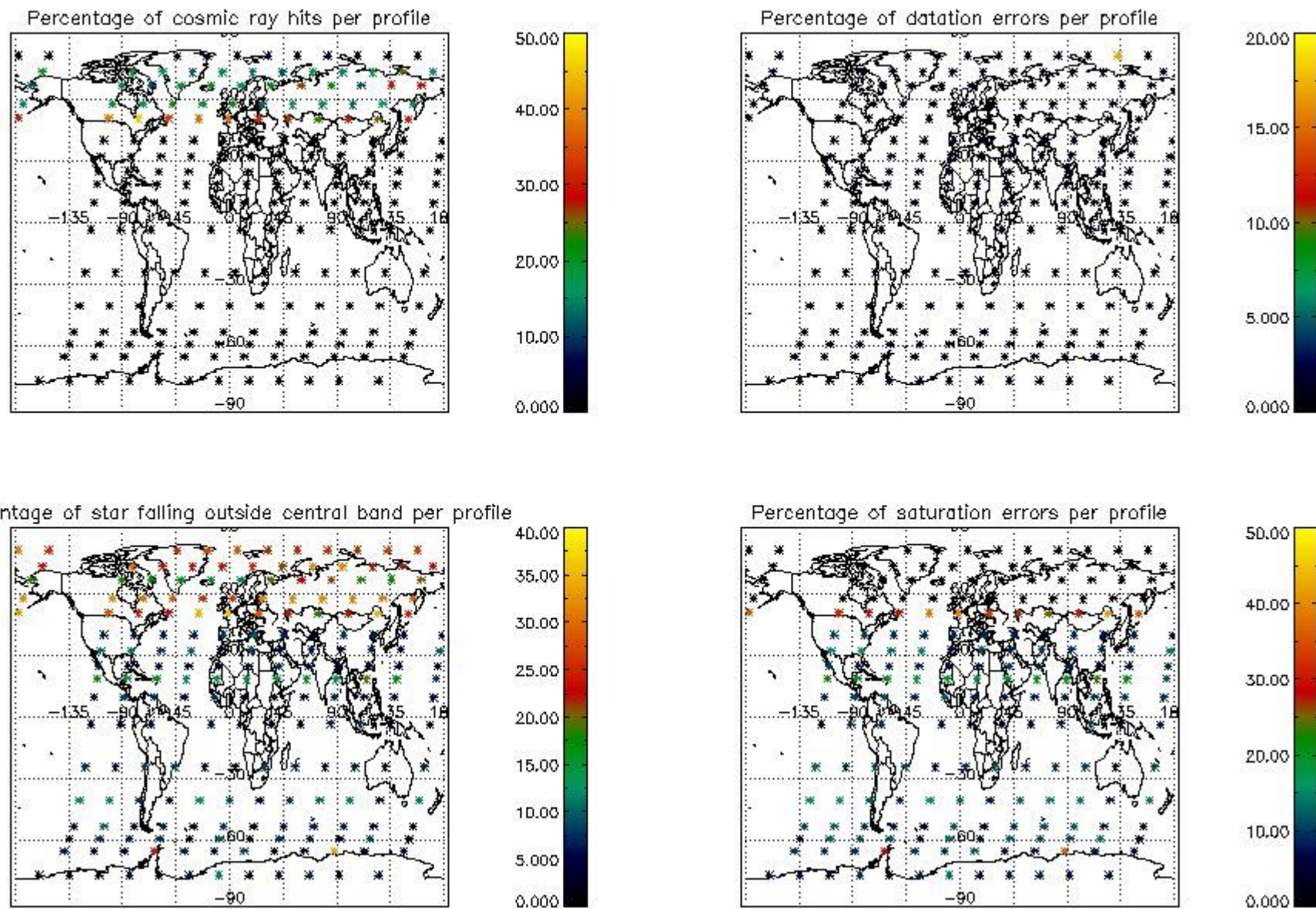
Percentage of star falling outside central band per profile



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

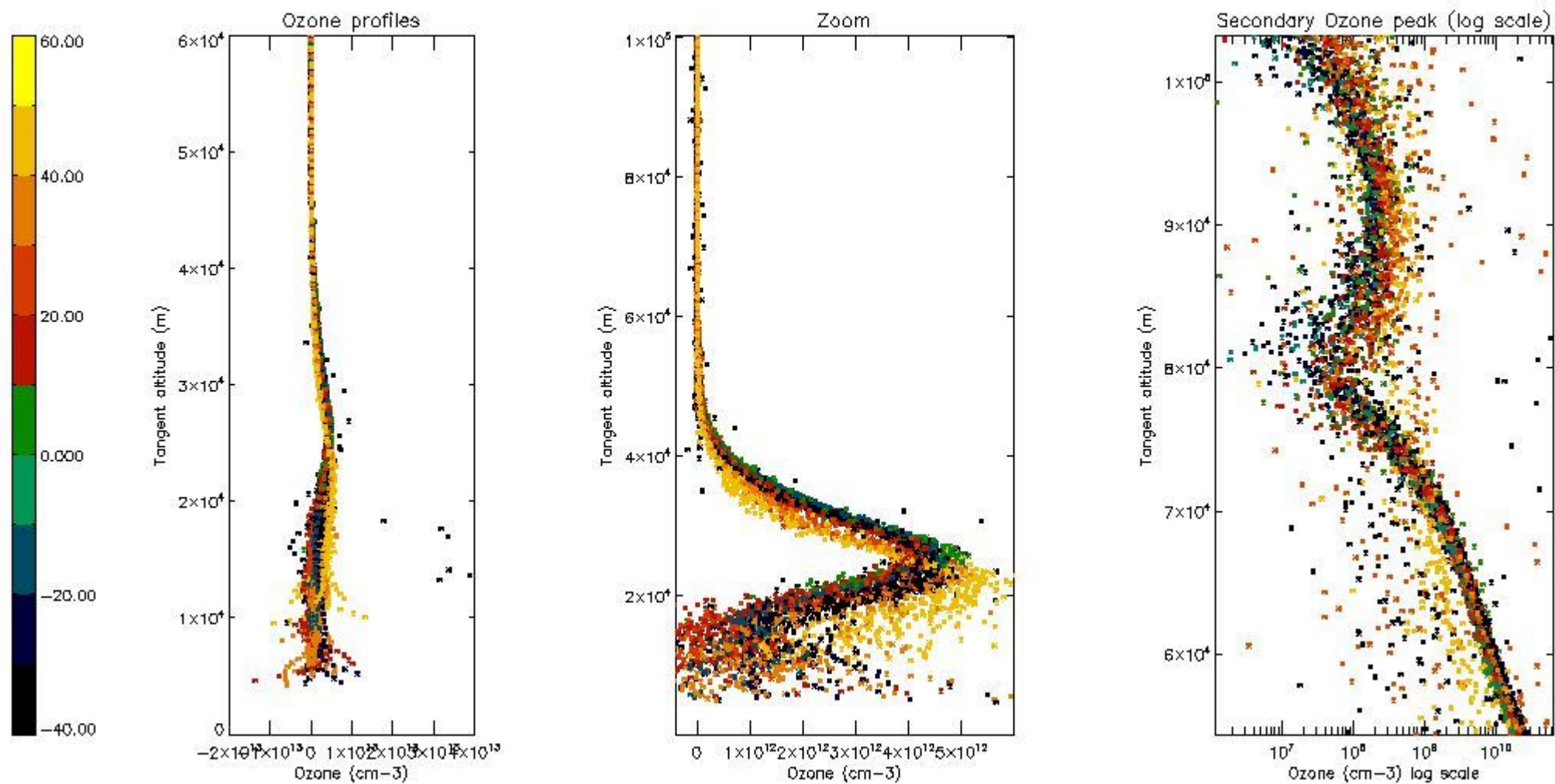
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	16

STD < 10	13
STD < 5	8

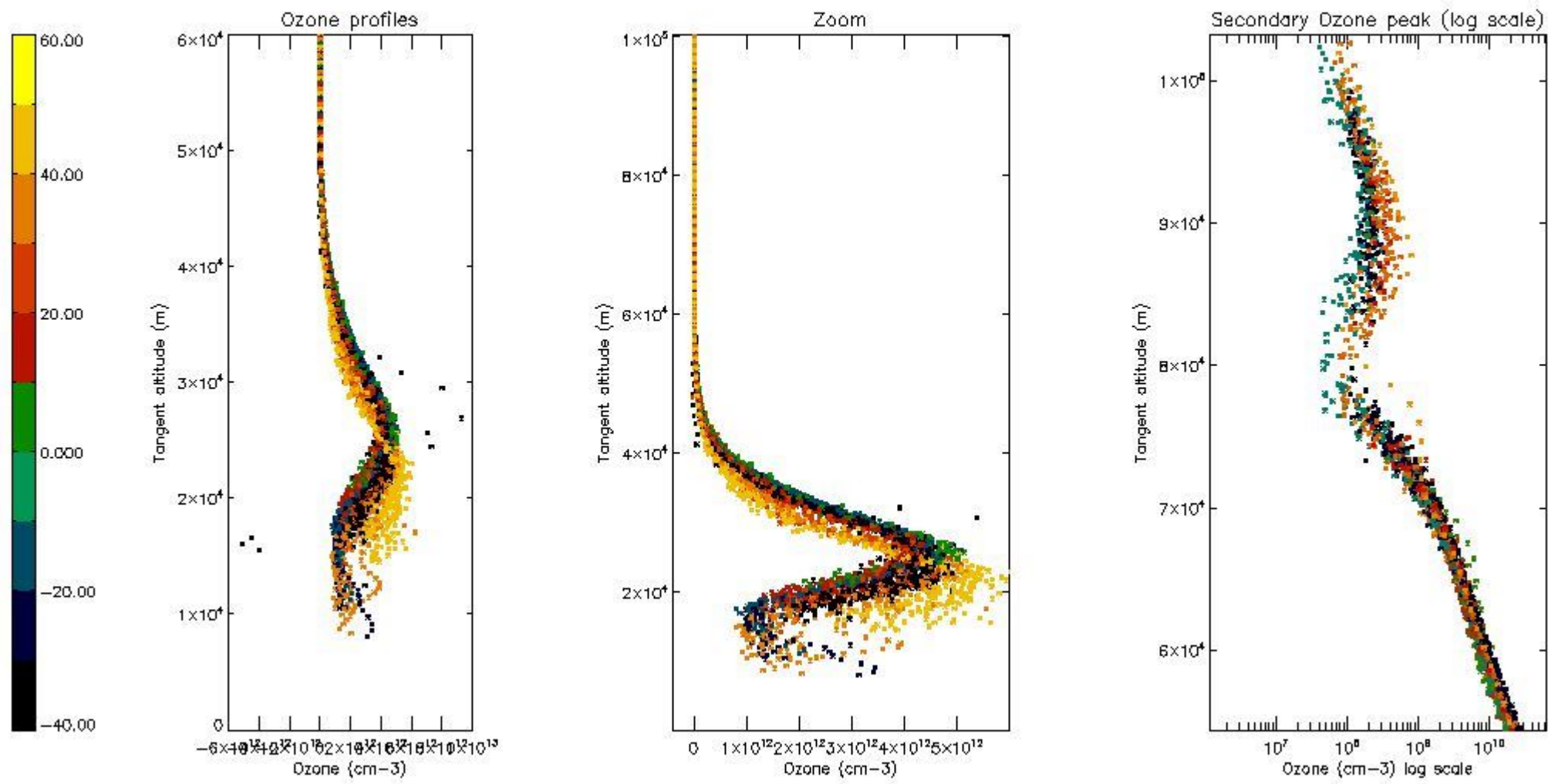
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



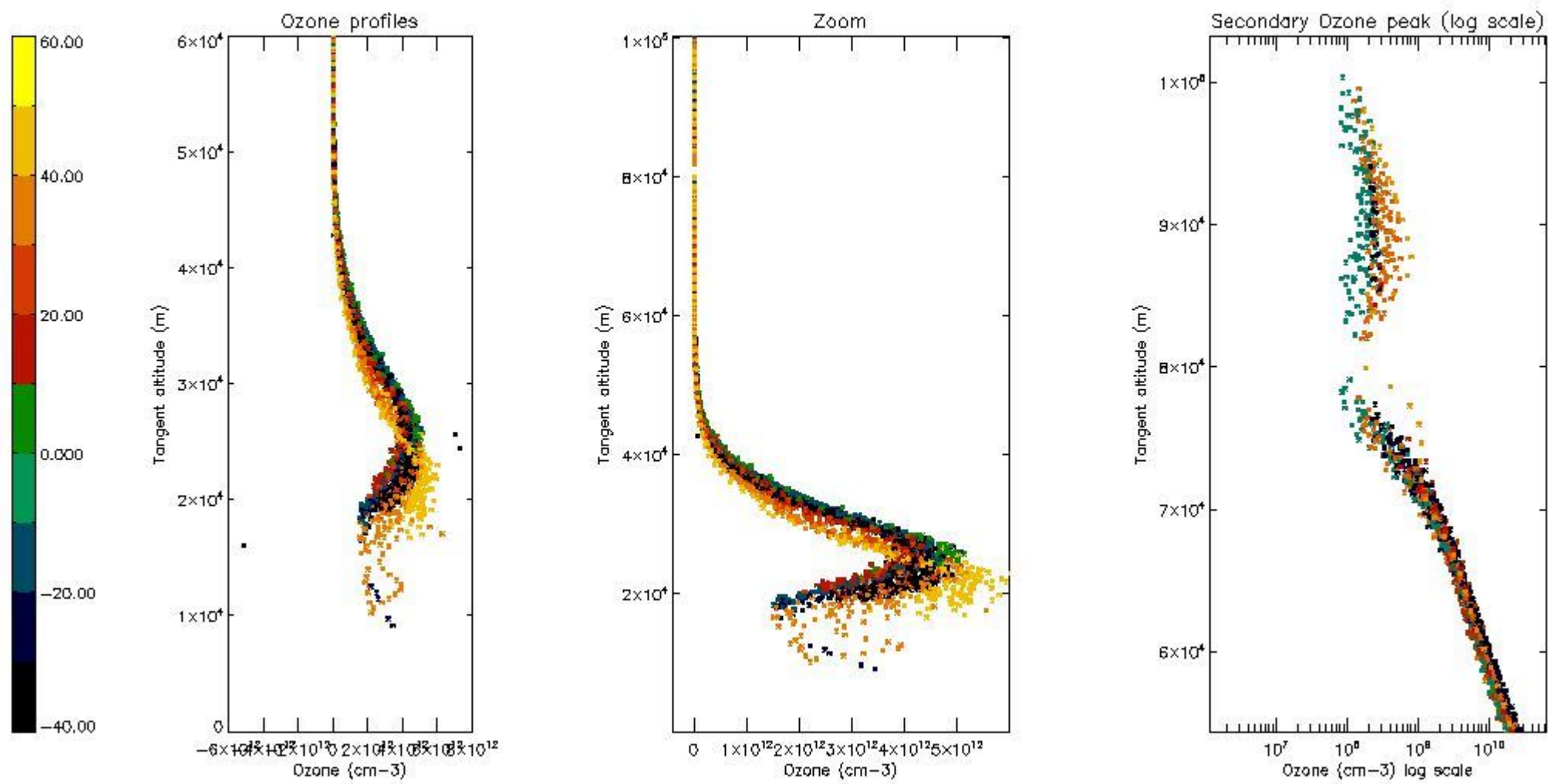
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



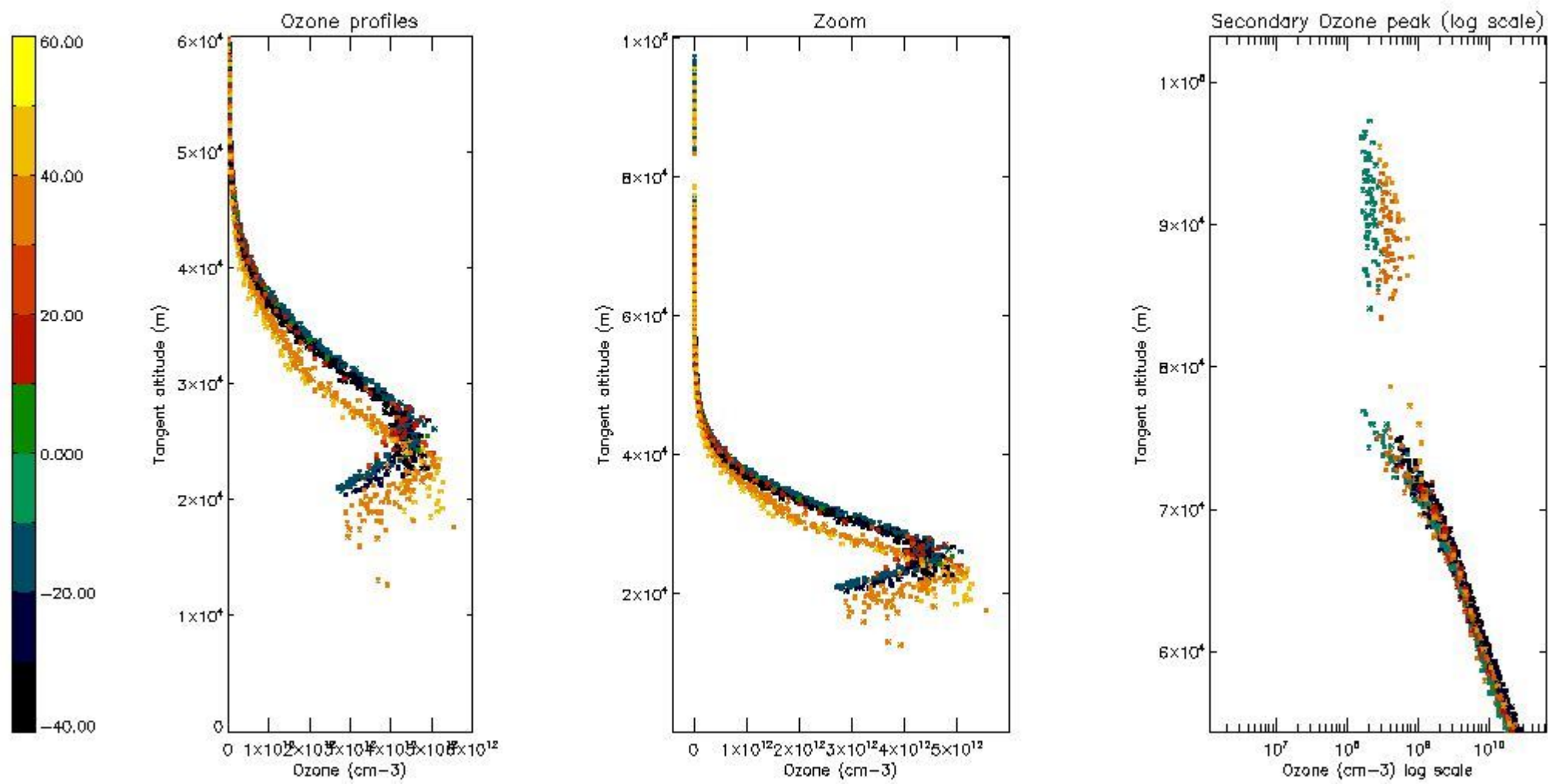
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



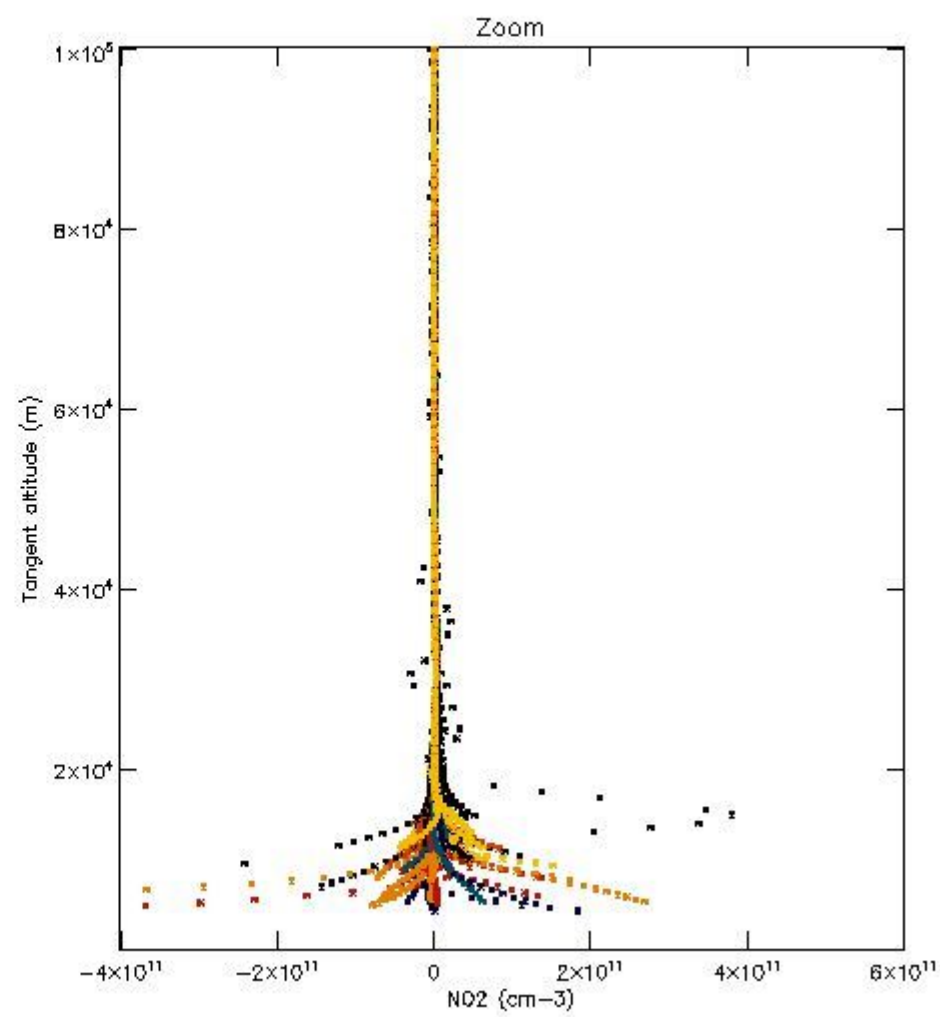
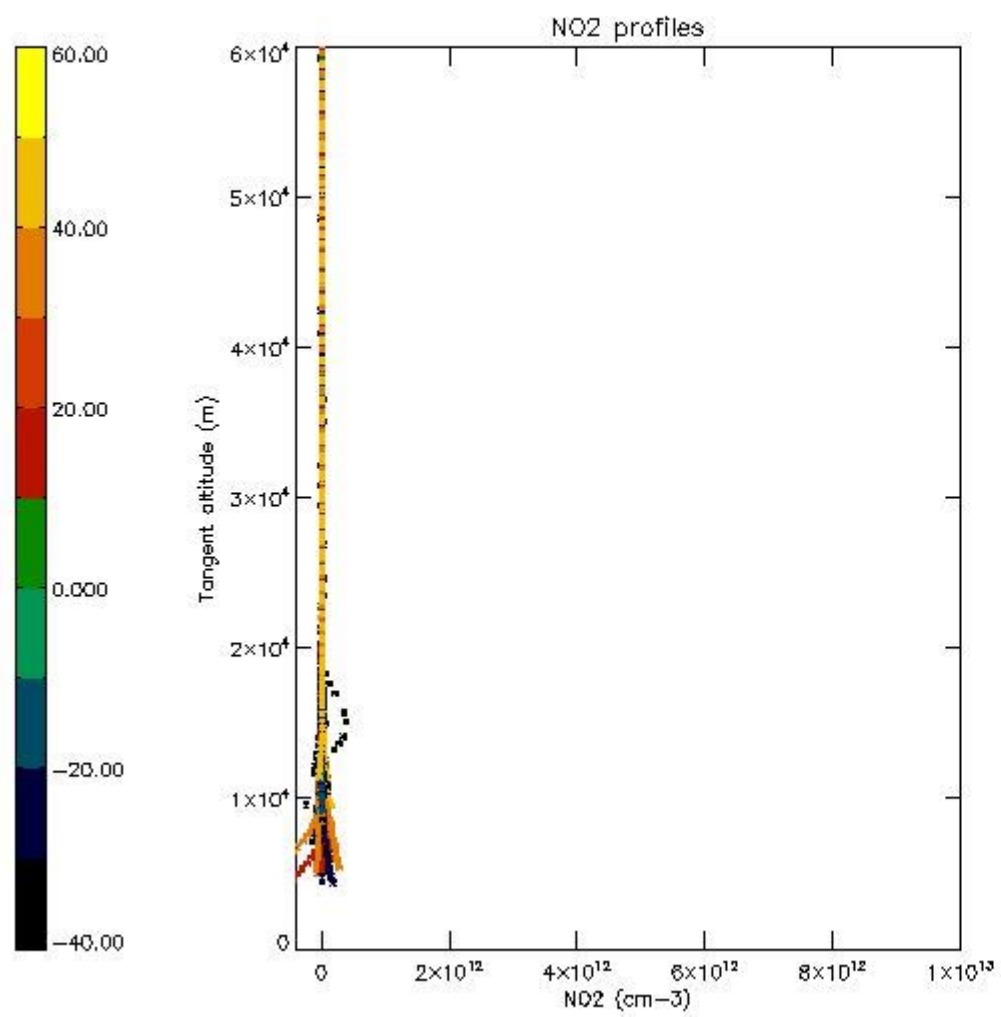
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



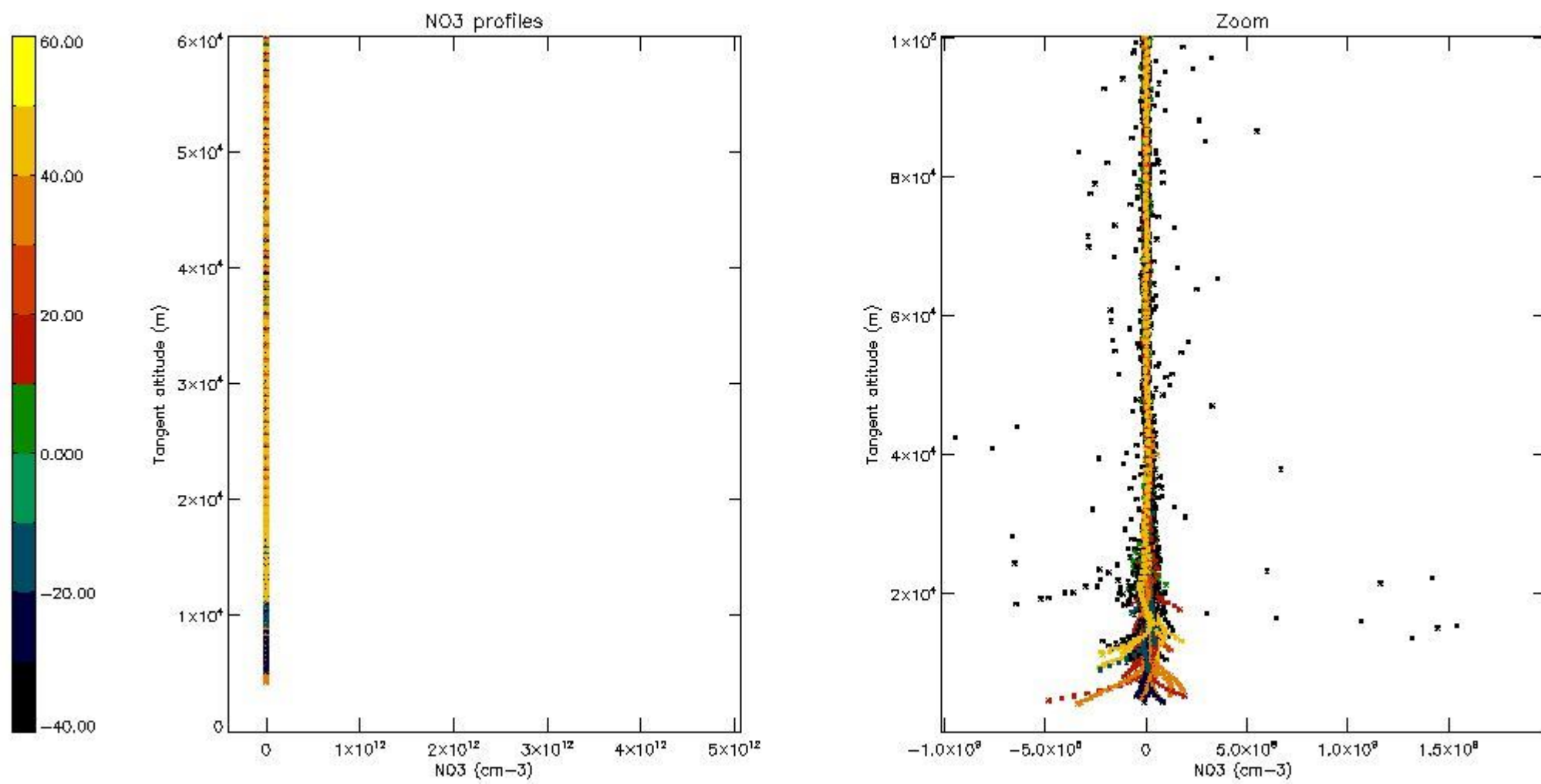
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



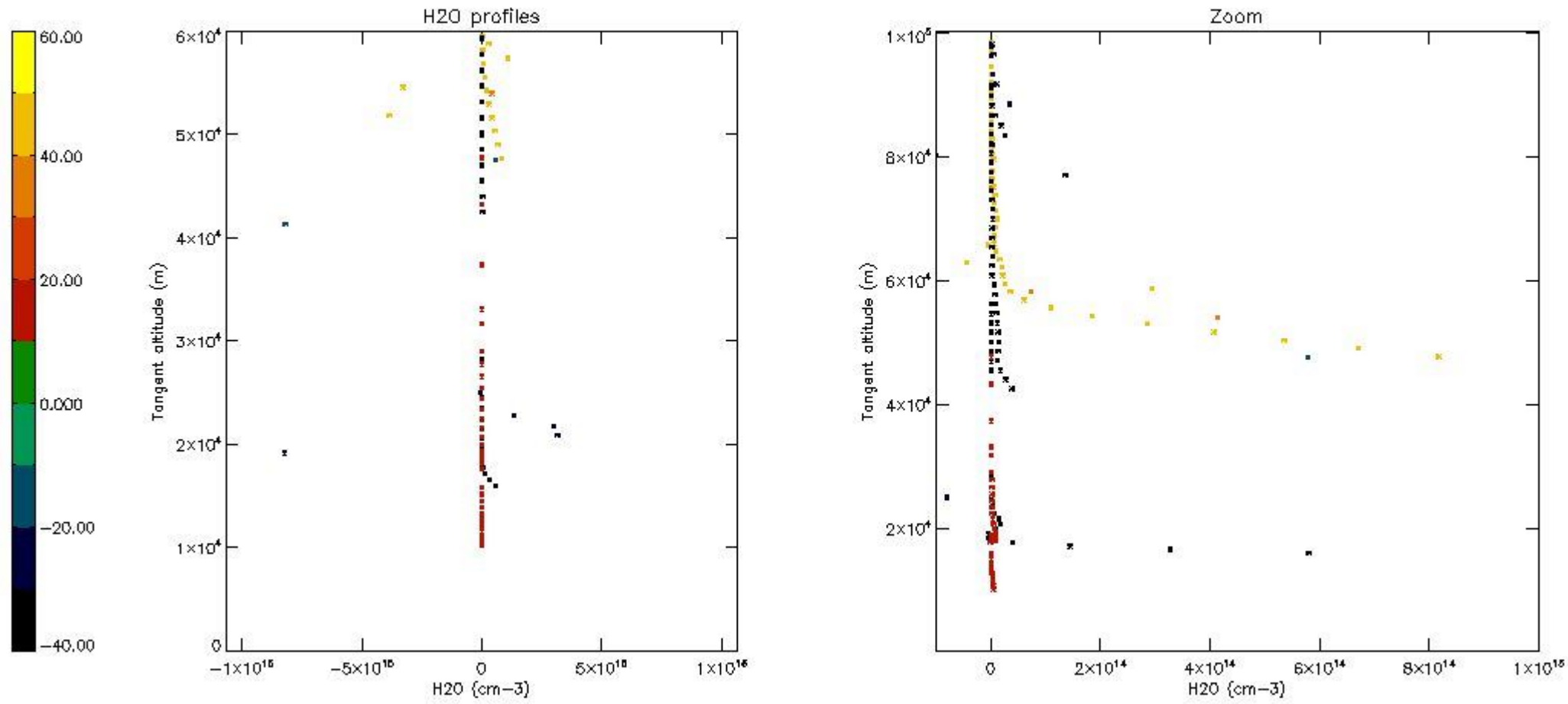
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-DEC-2003 00:00:37
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-DEC-2003 00:00:37
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-DEC-2003 00:00:37

GOMOS Level 2 Daily Report

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[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 \(time dependant\)](#)

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[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](#)

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[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](#)

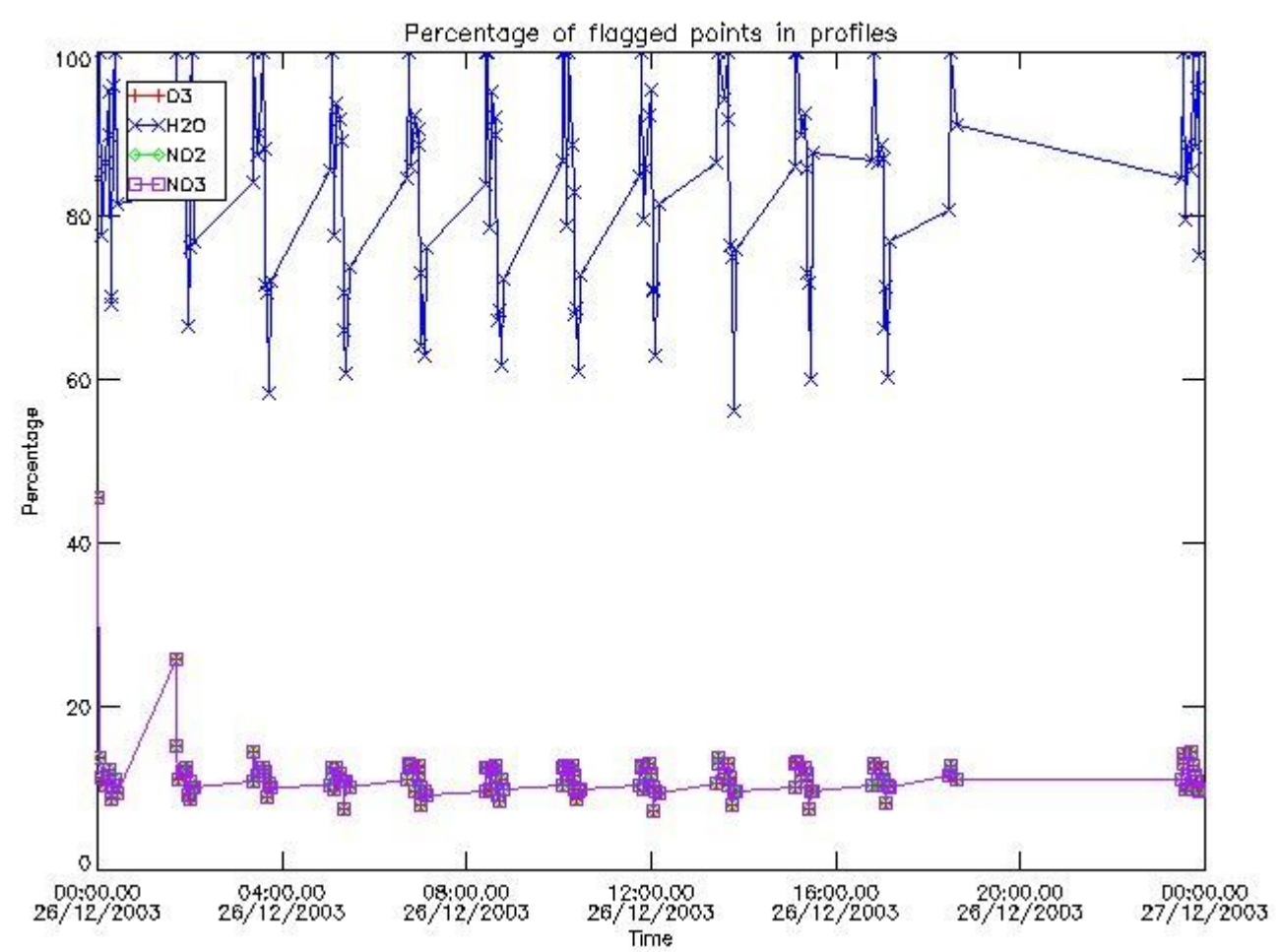
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3. Quality information per product

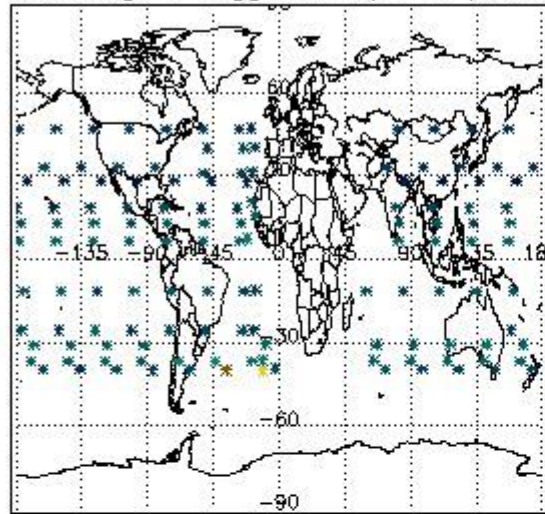
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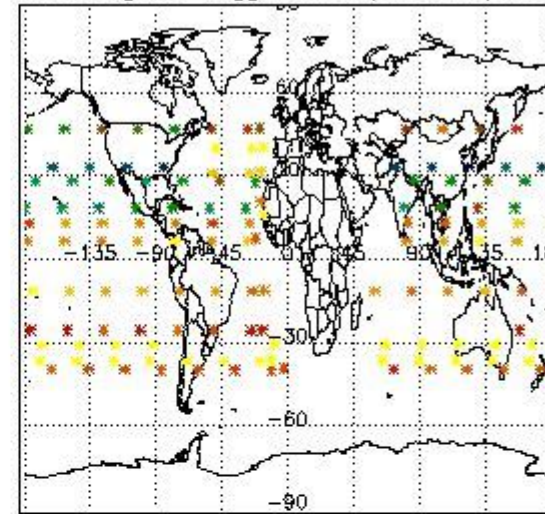


3.2 Plot quality information per product (world map)

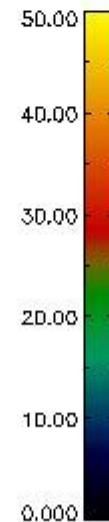
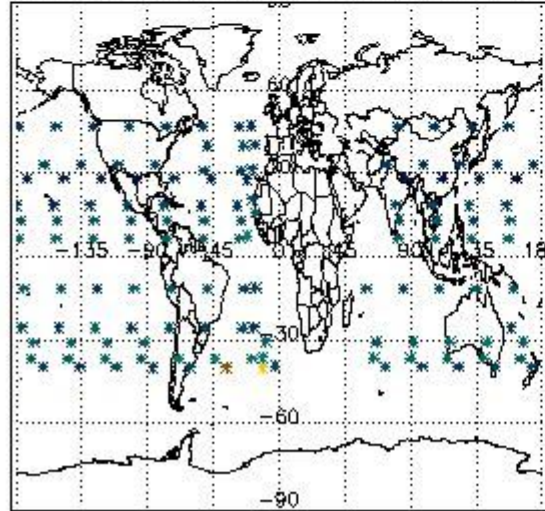
Percentage of flagged data per O3 profile



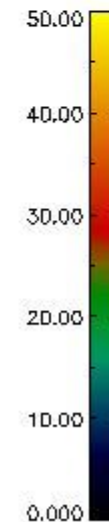
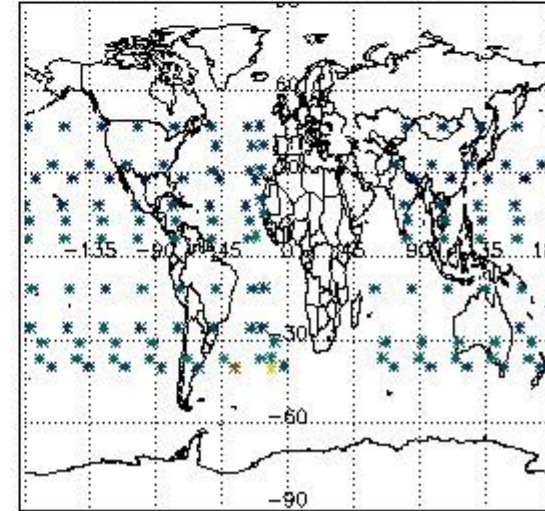
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

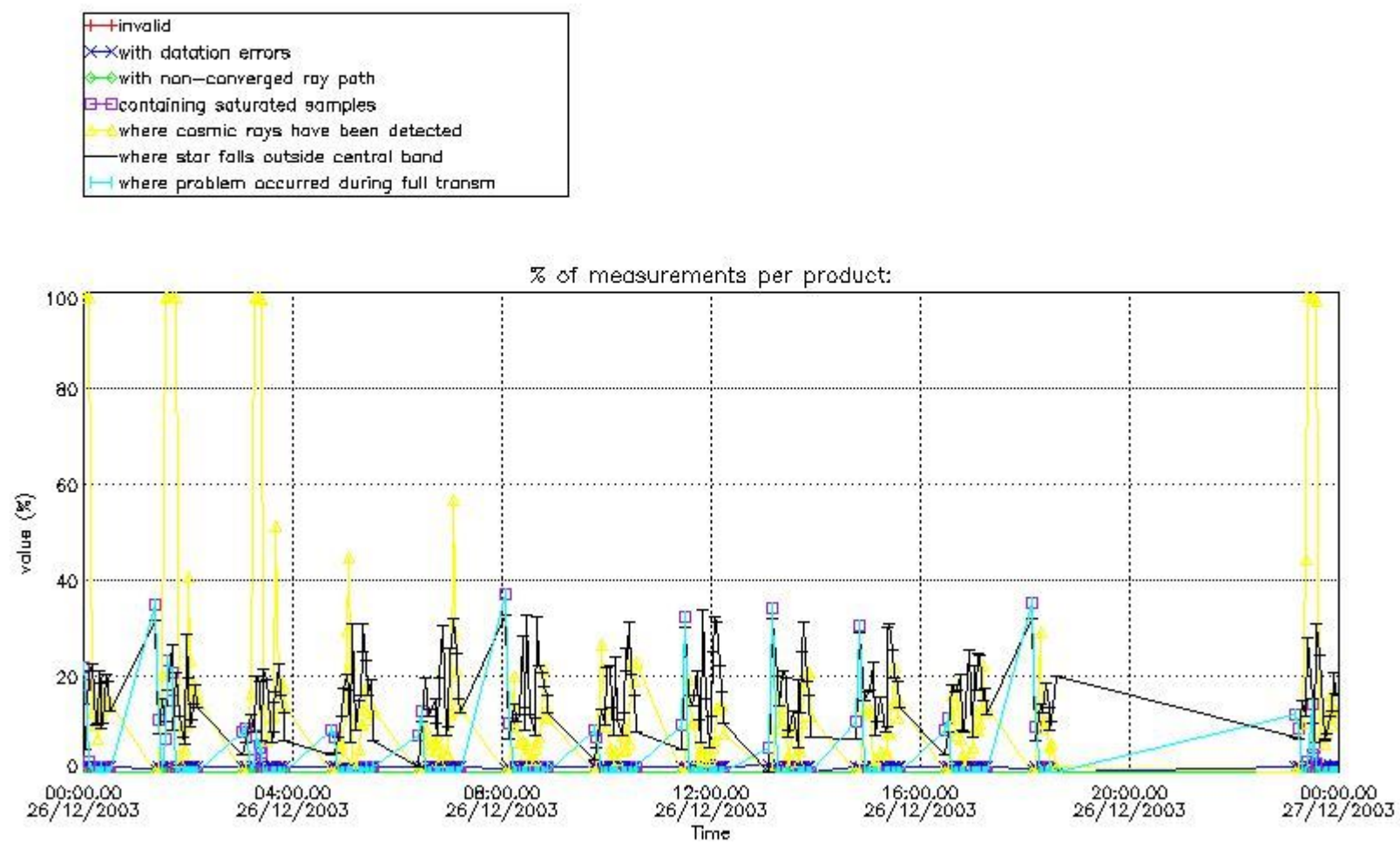


4. Level 1 quality information per product

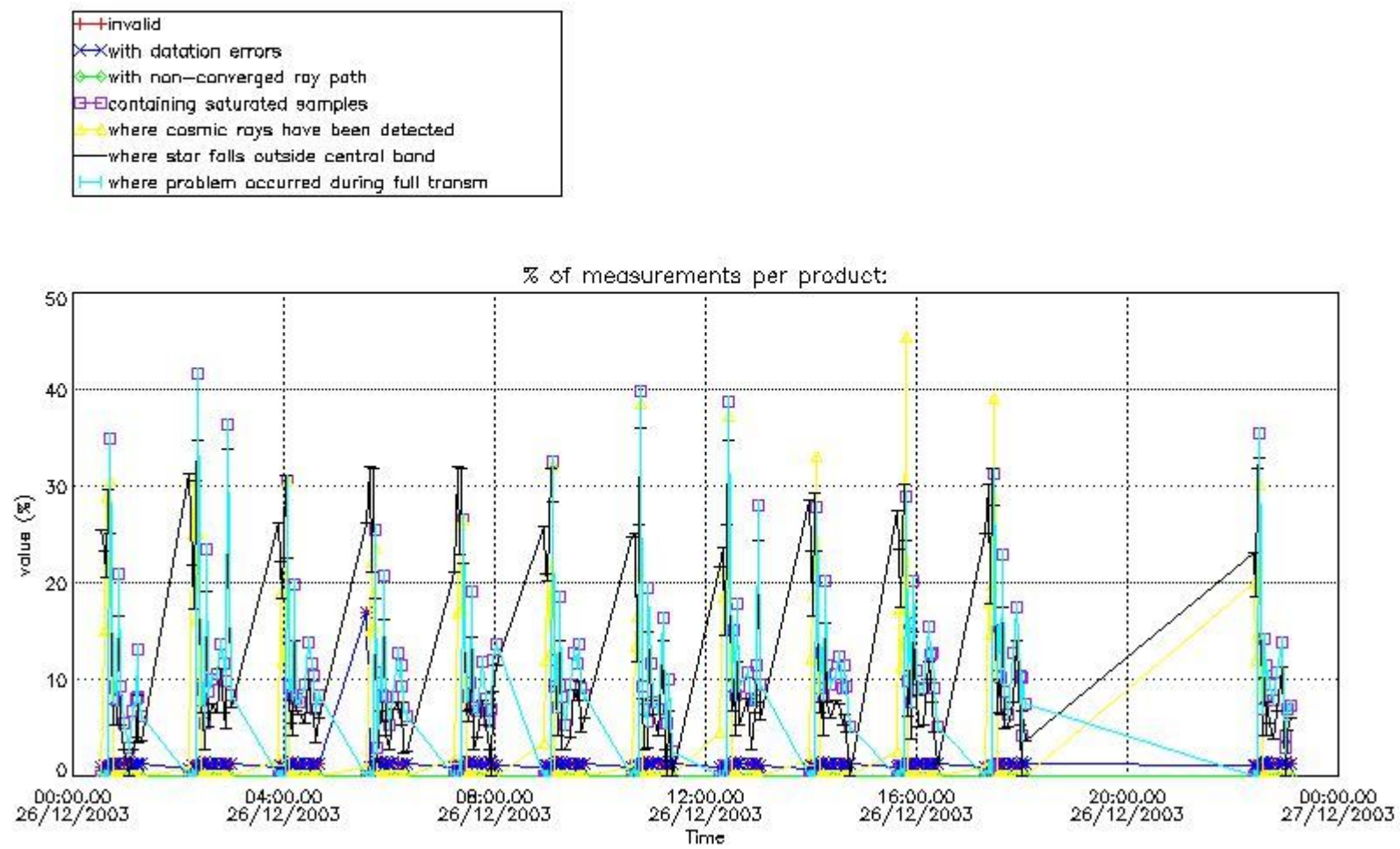
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



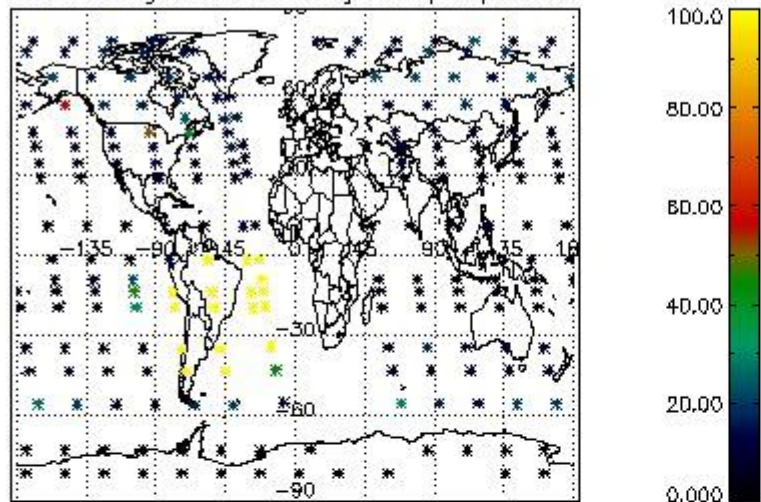
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



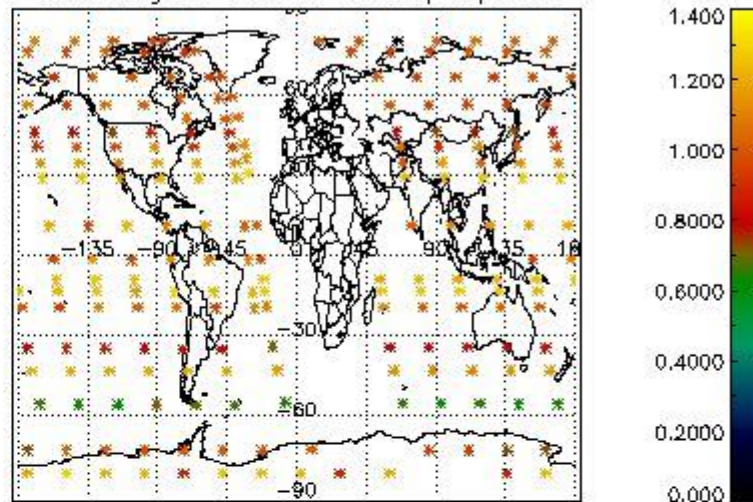
4.2 Plot quality information per product coming from level 1b processing (world map)

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

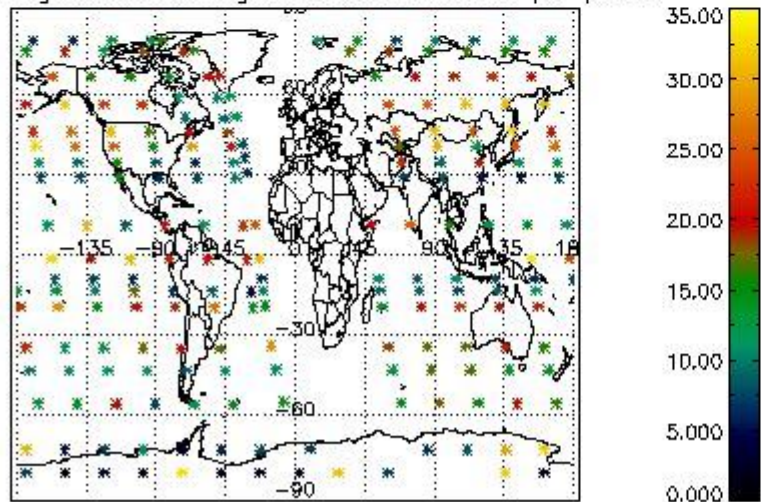
Percentage of cosmic ray hits per profile



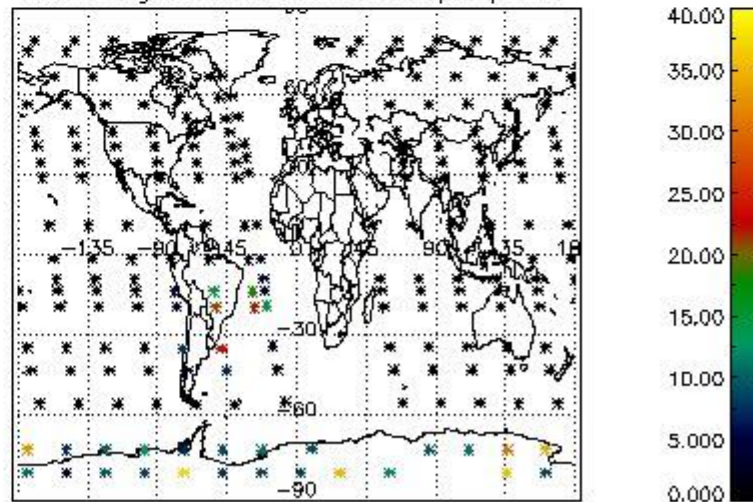
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

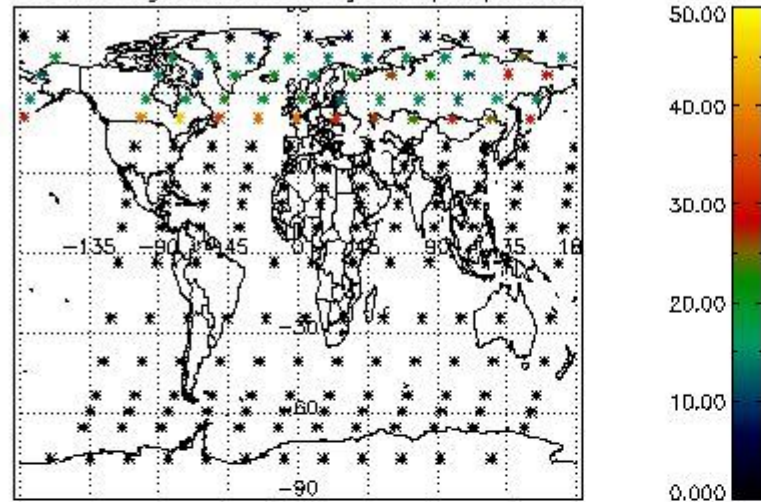


Percentage of saturation errors per profile

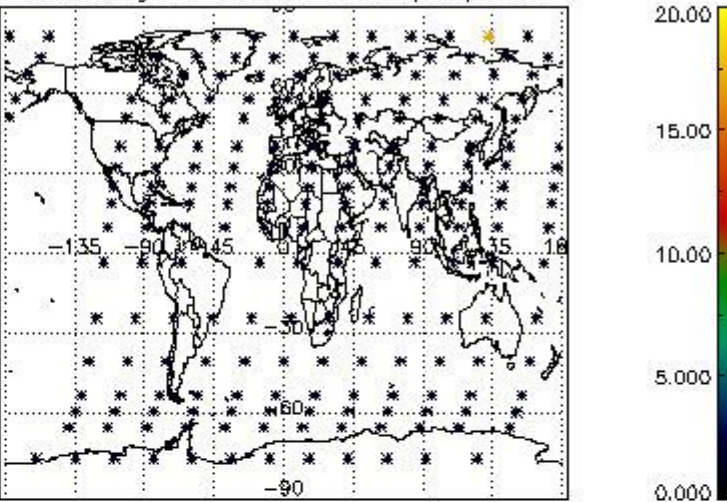


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

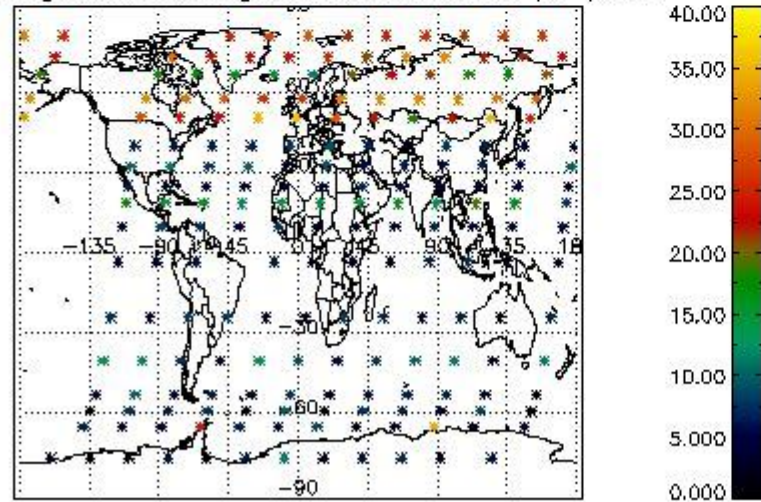
Percentage of cosmic ray hits per profile



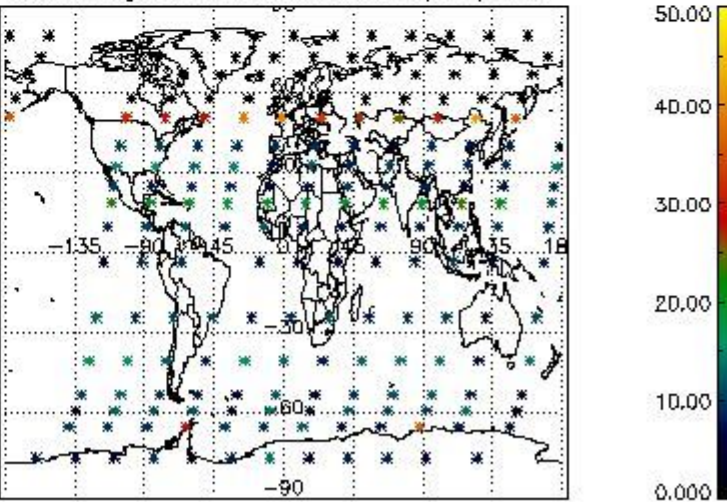
Percentage of datation errors per profile



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

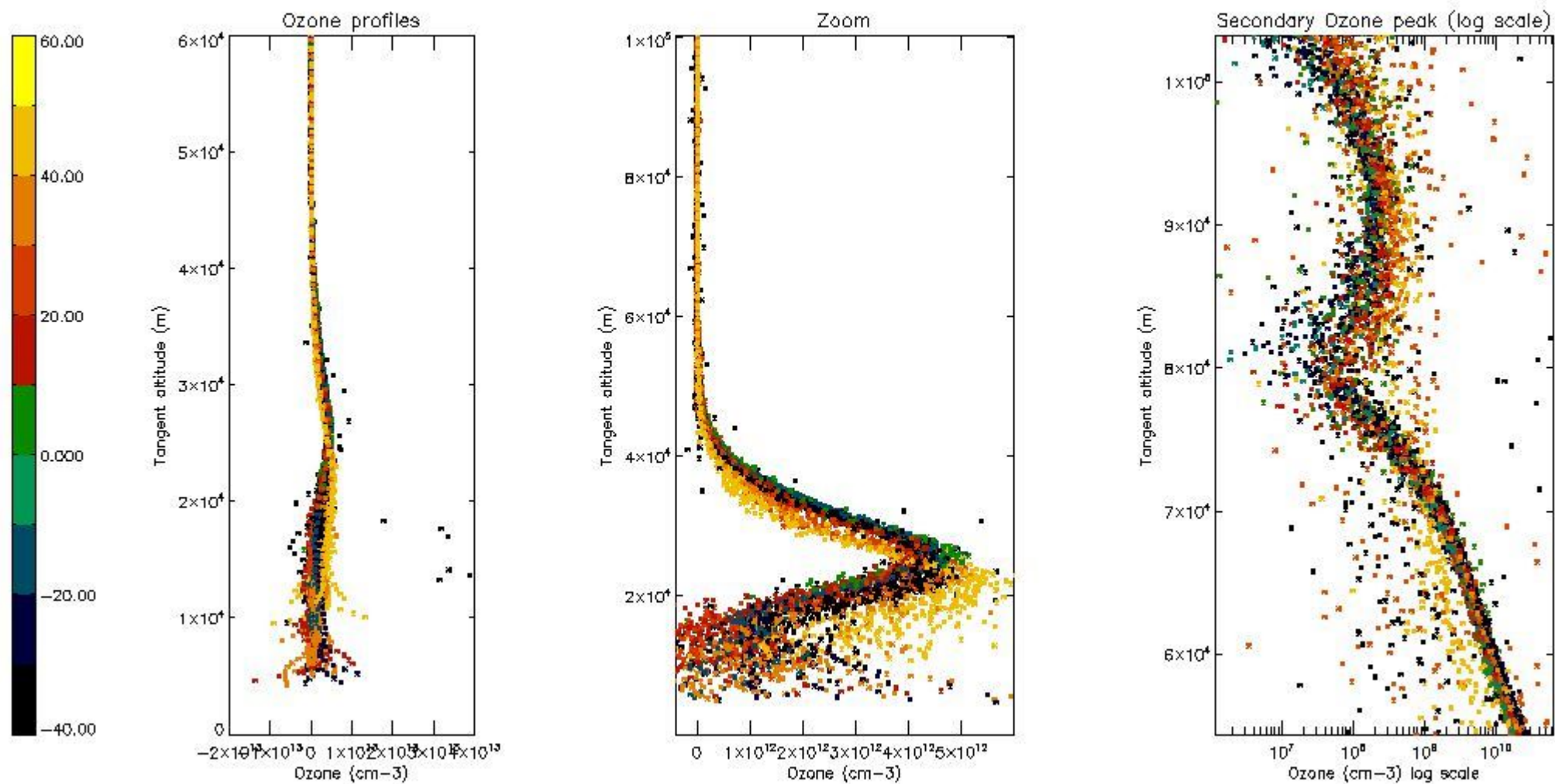
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	16

STD < 10	13
STD < 5	8

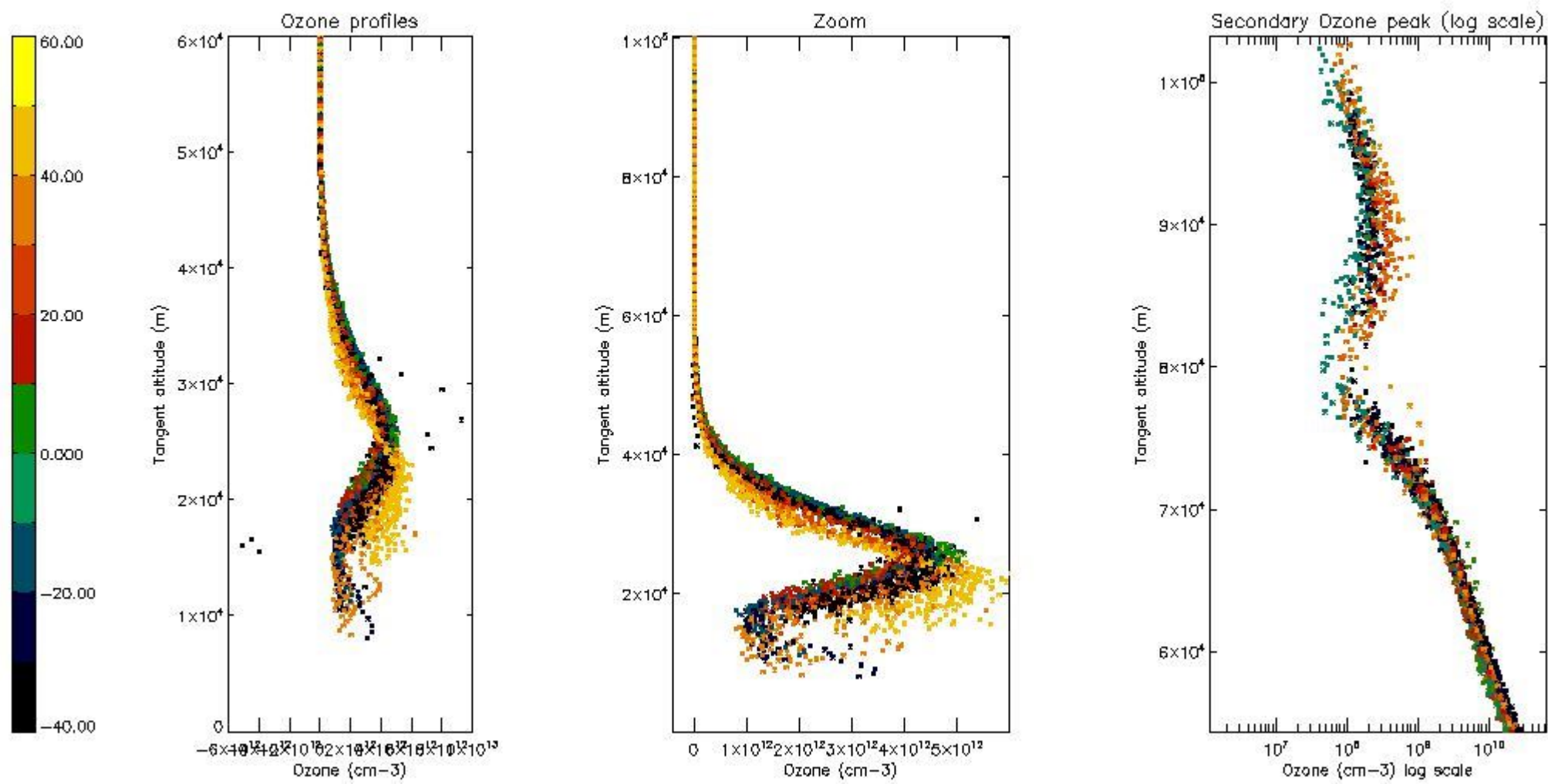
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



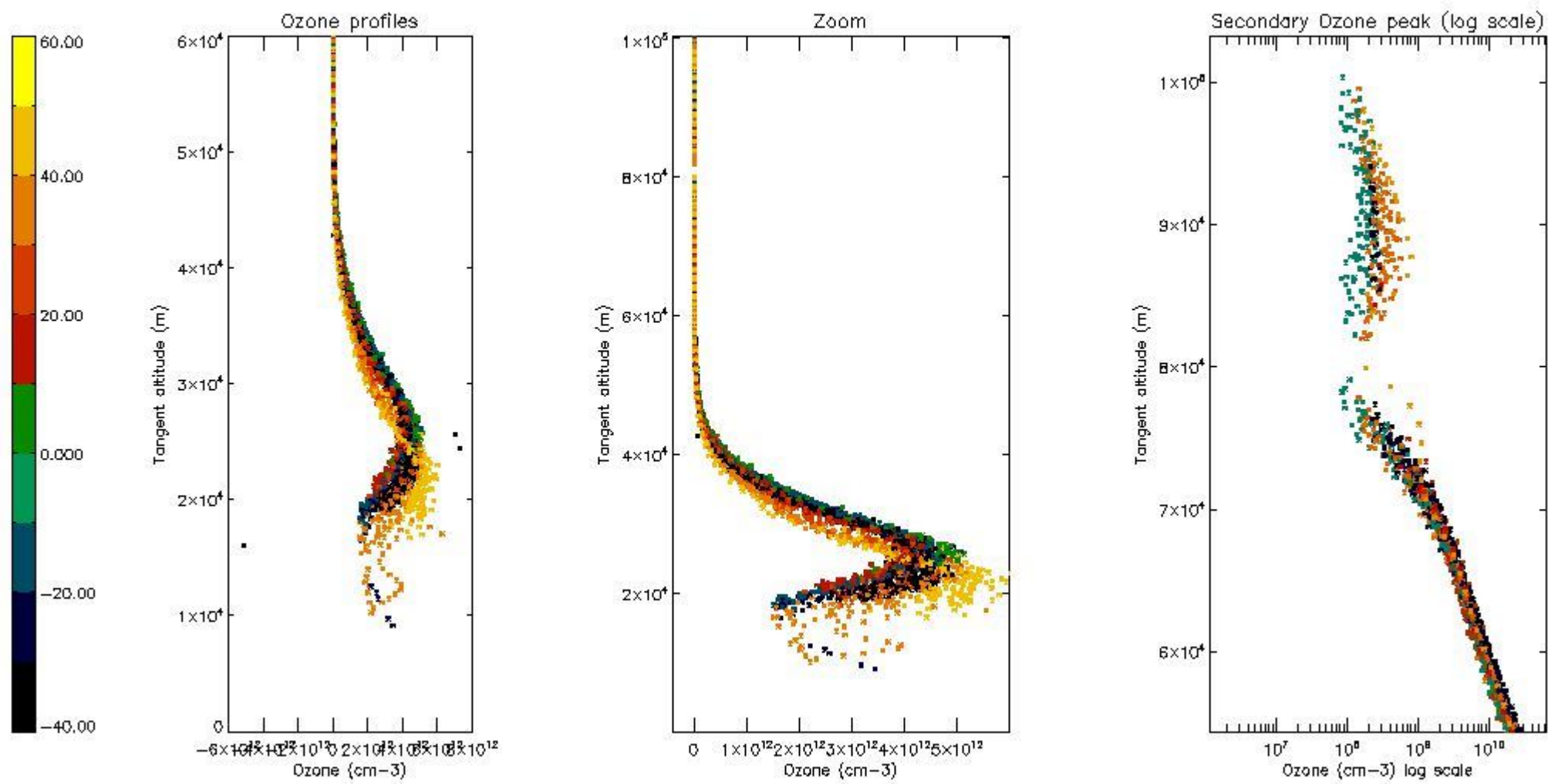
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



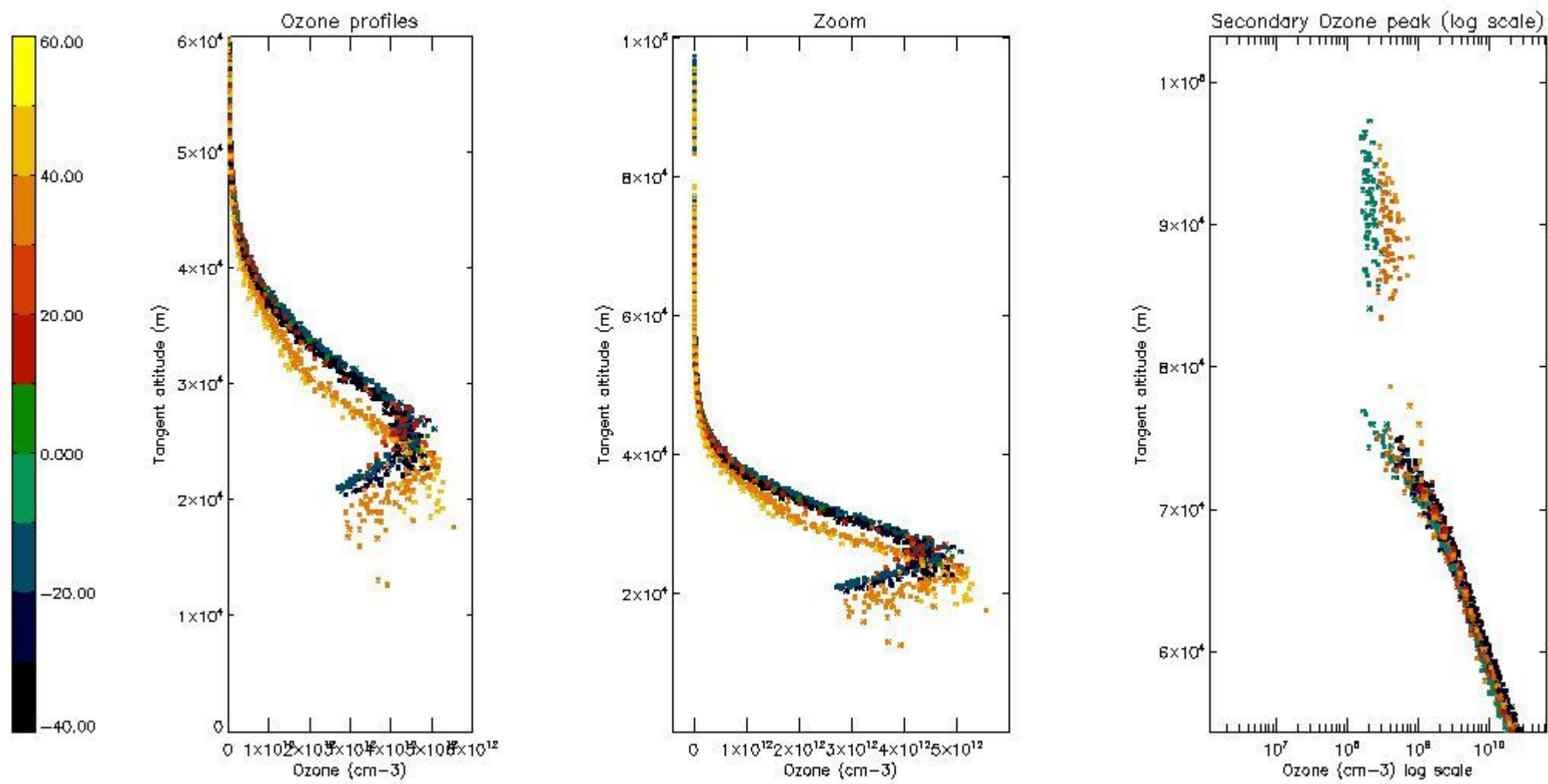
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



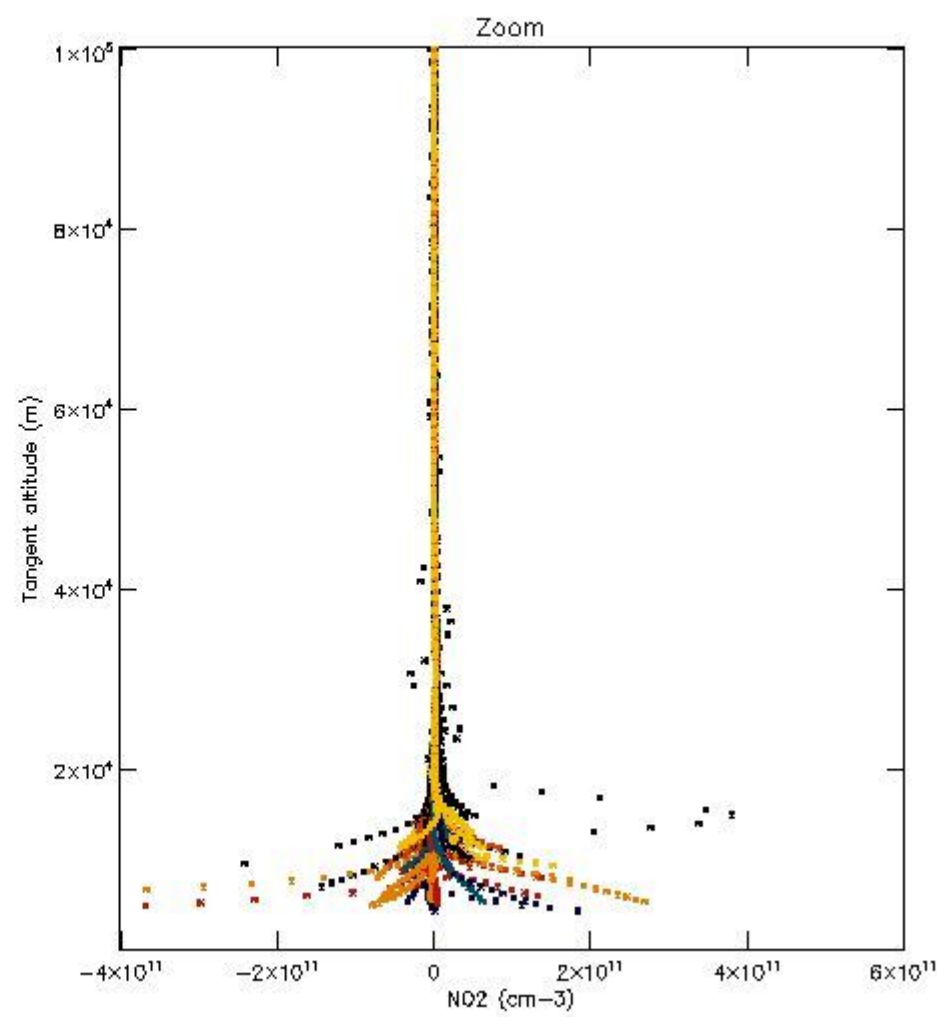
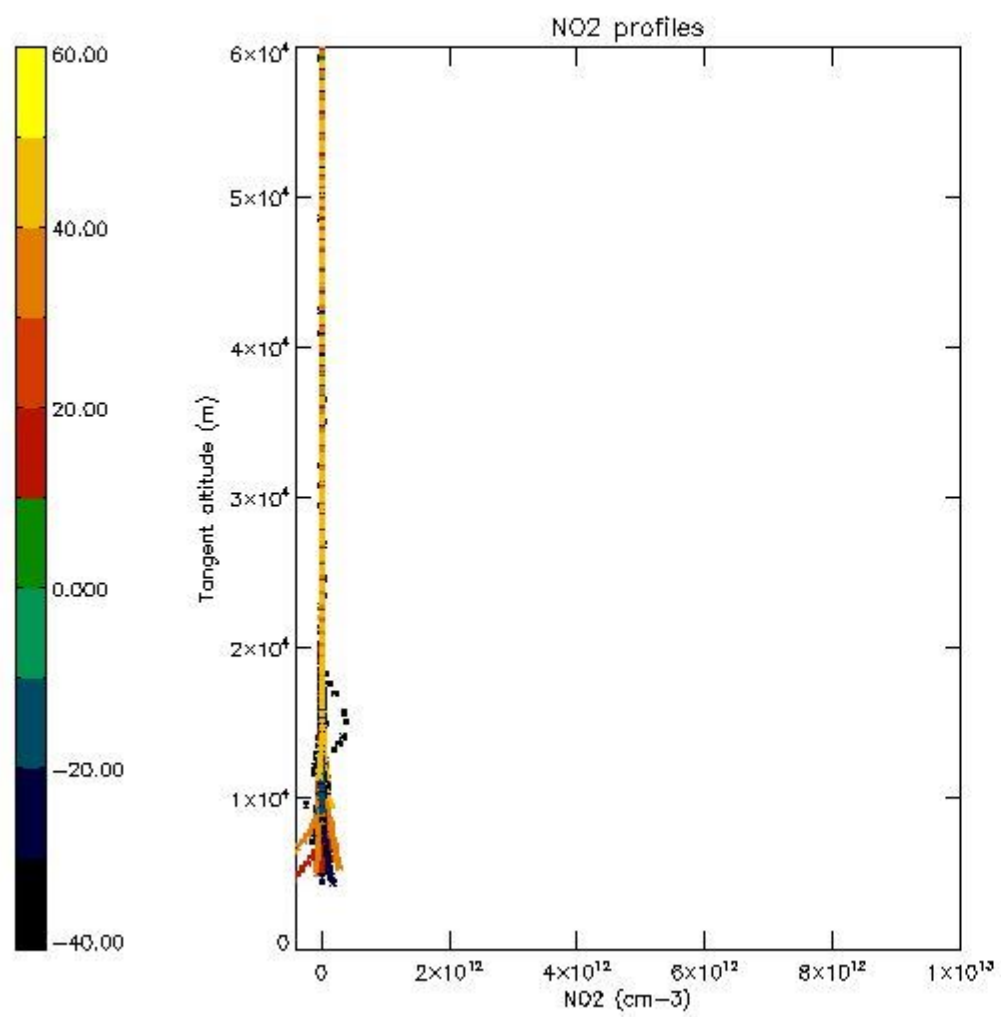
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



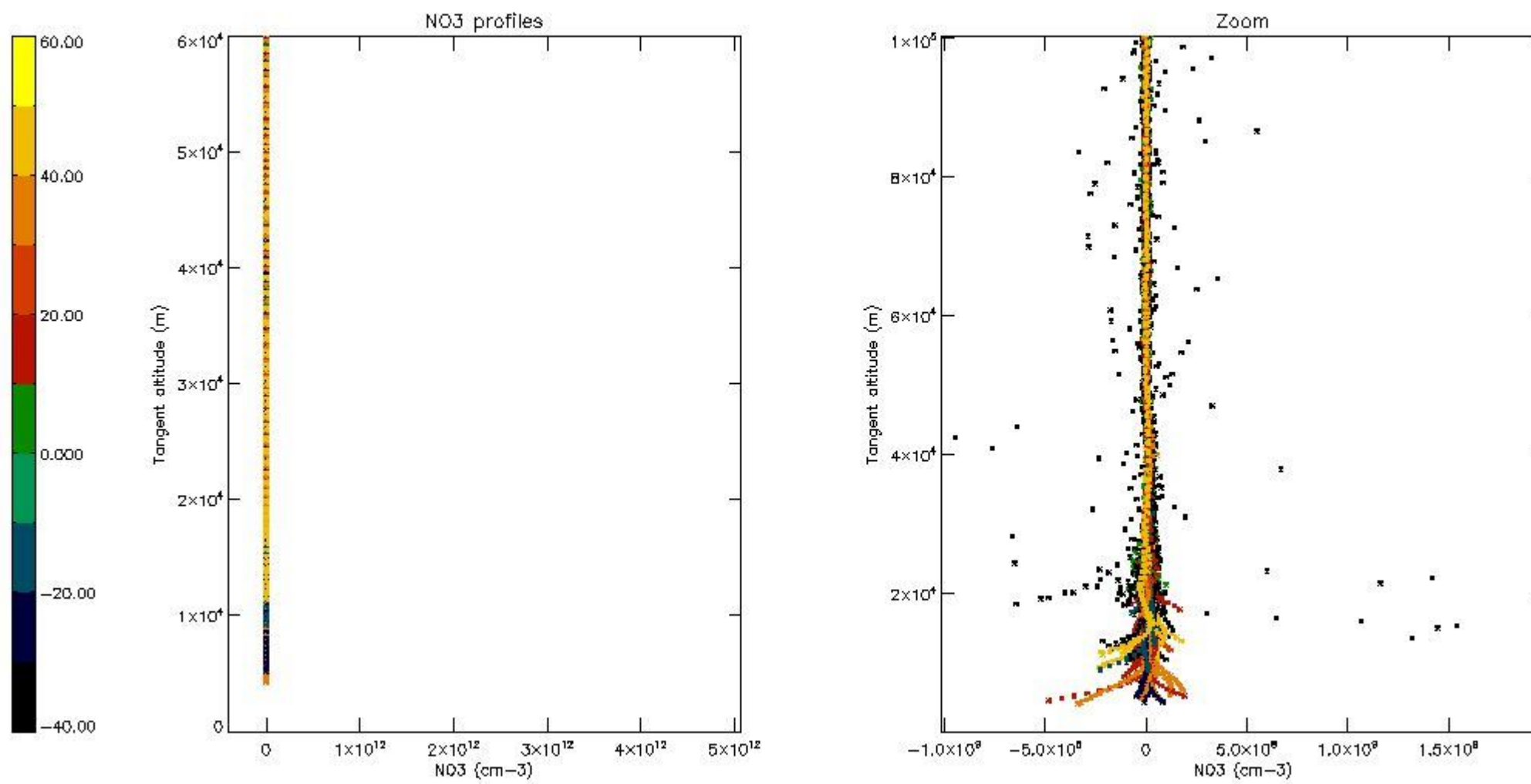
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



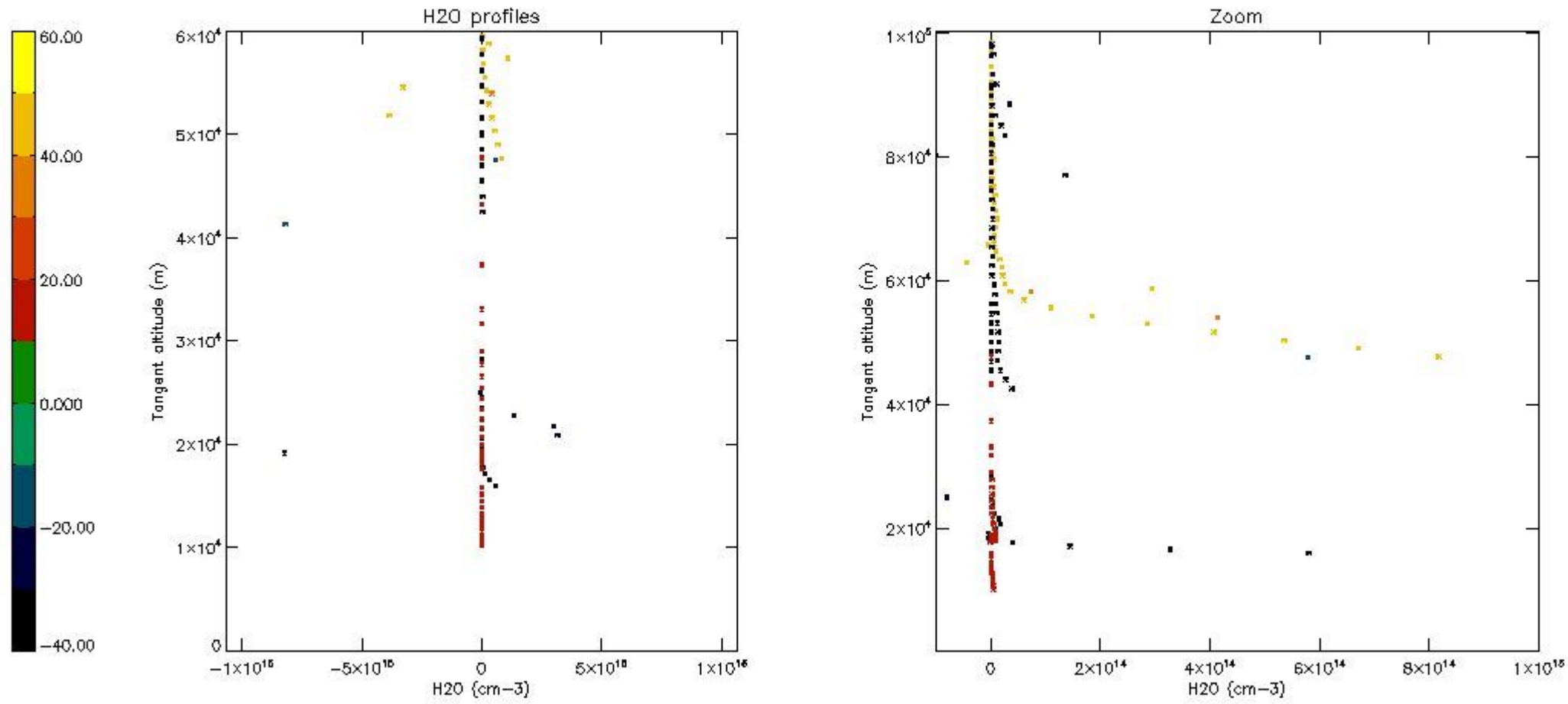
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

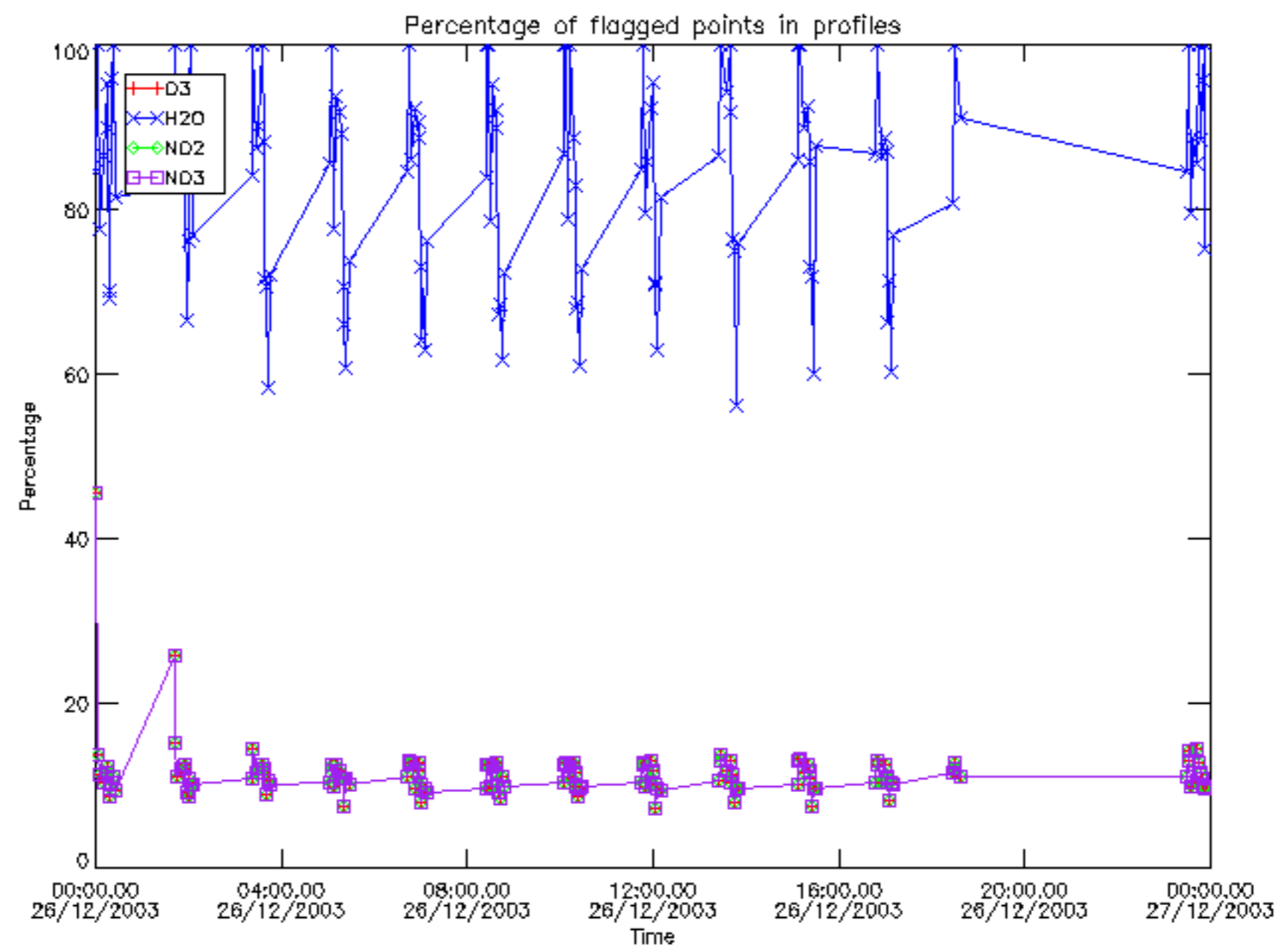
The colorbar represents the latitude.



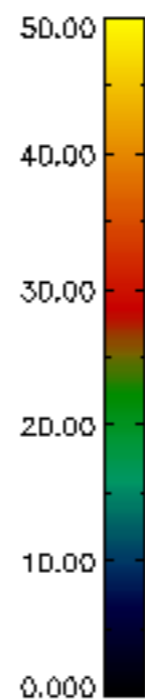
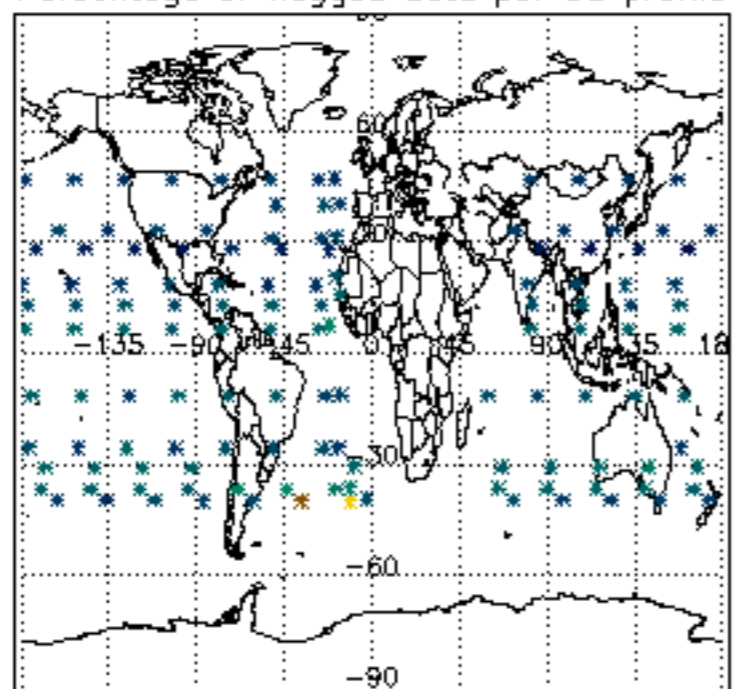
6. Auxiliary Data Files used for the production reported in section 2

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

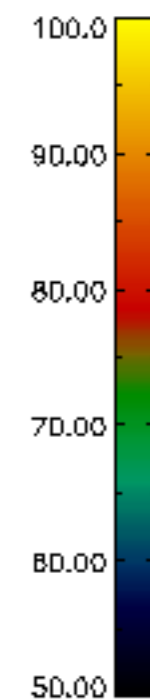
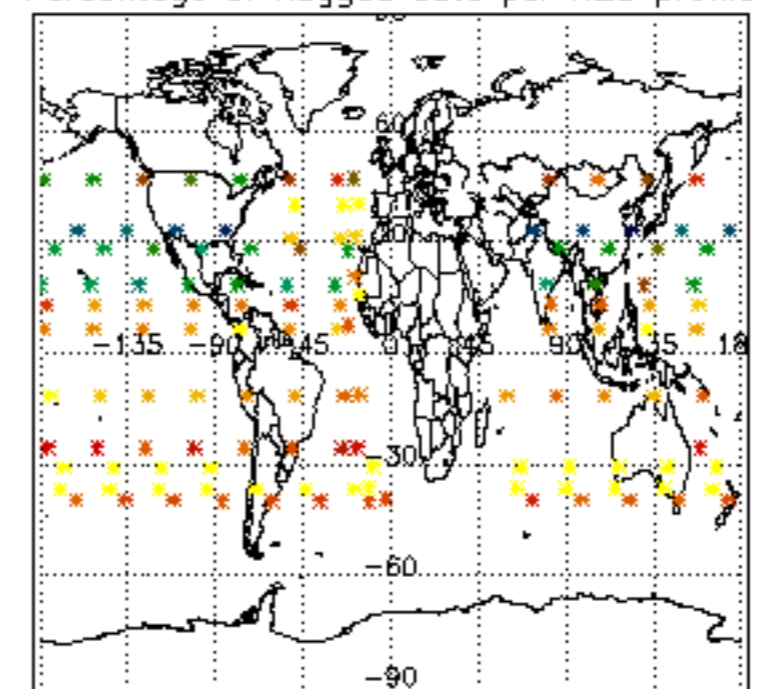
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-DEC-2003 00:00:37
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-DEC-2003 00:00:37
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-DEC-2003 00:00:37



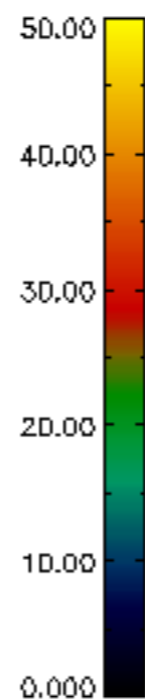
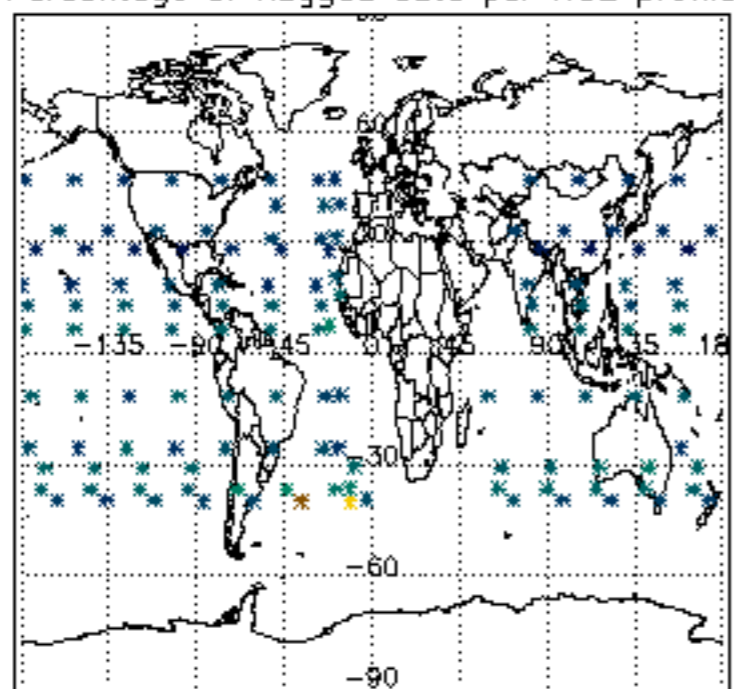
Percentage of flagged data per D3 profile



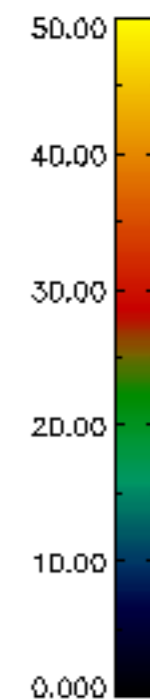
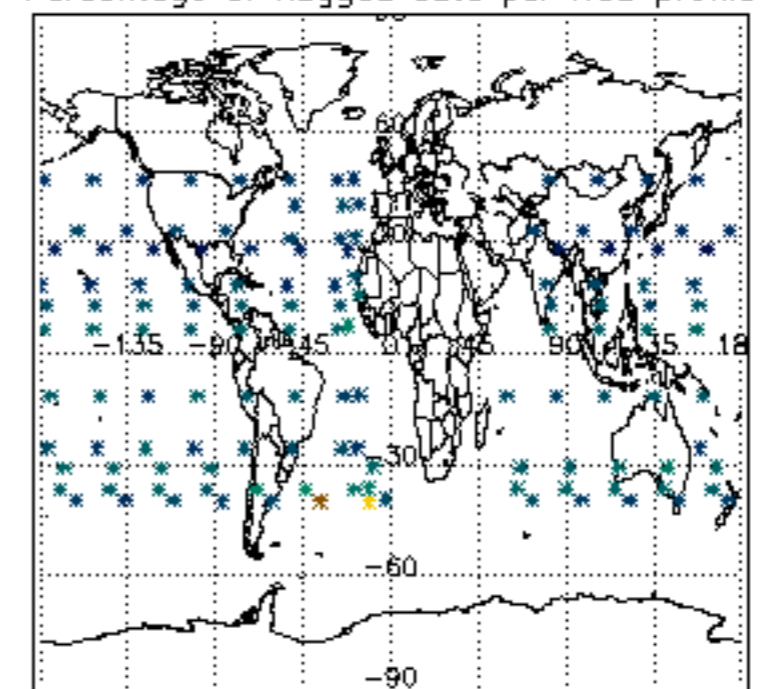
Percentage of flagged data per H2O profile

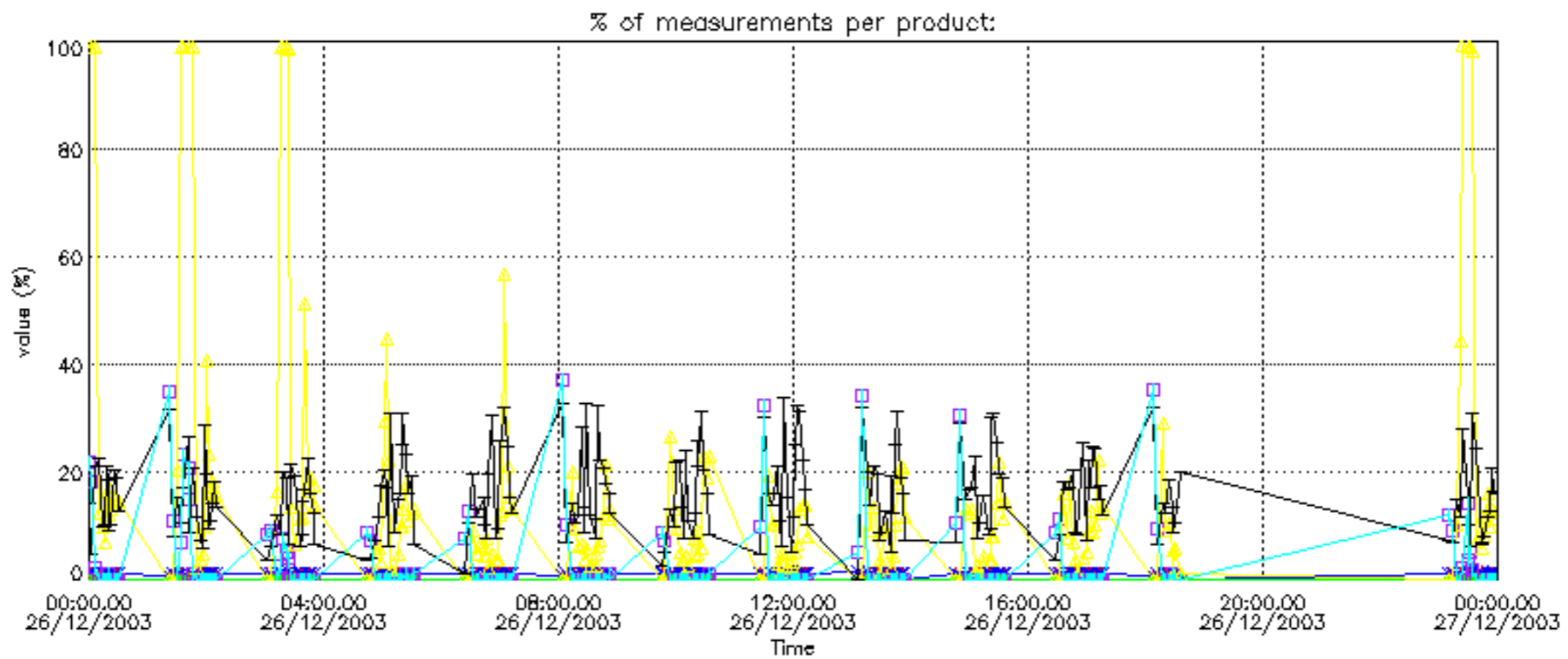


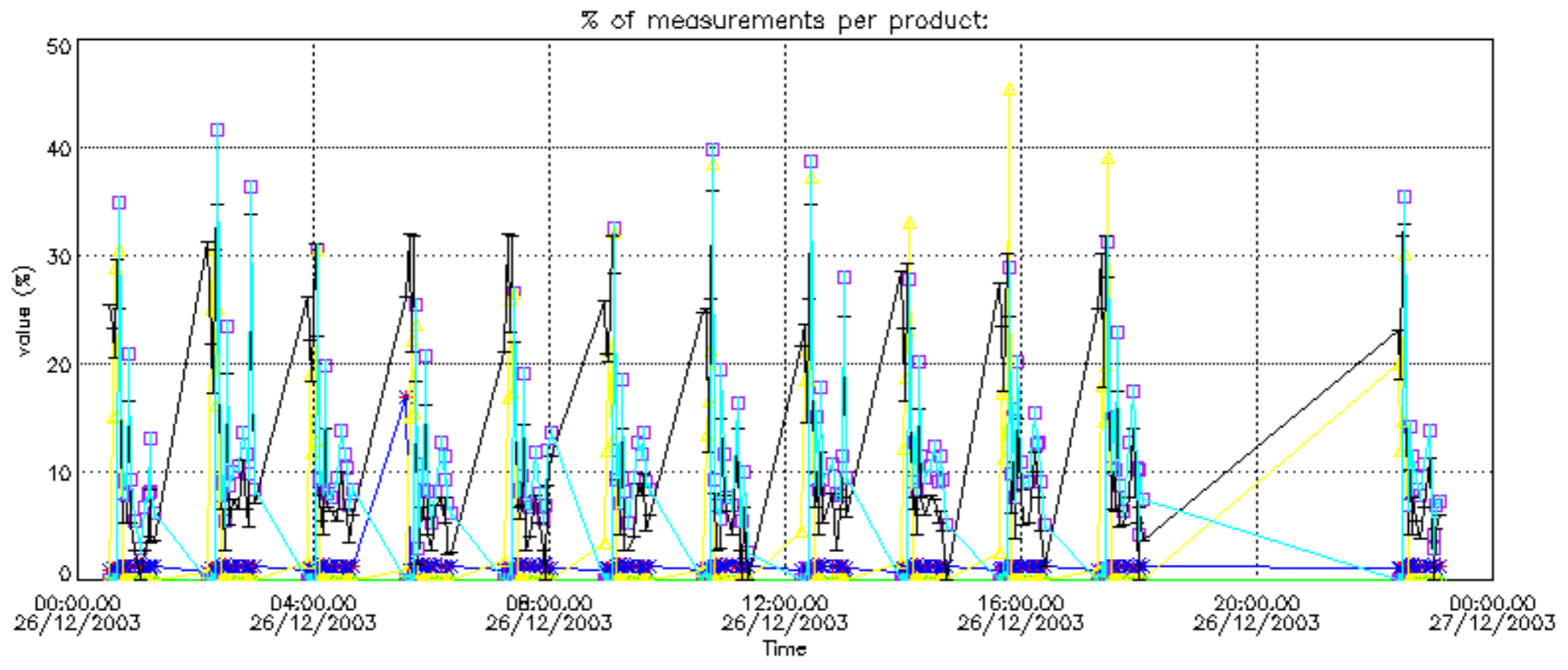
Percentage of flagged data per NO2 profile



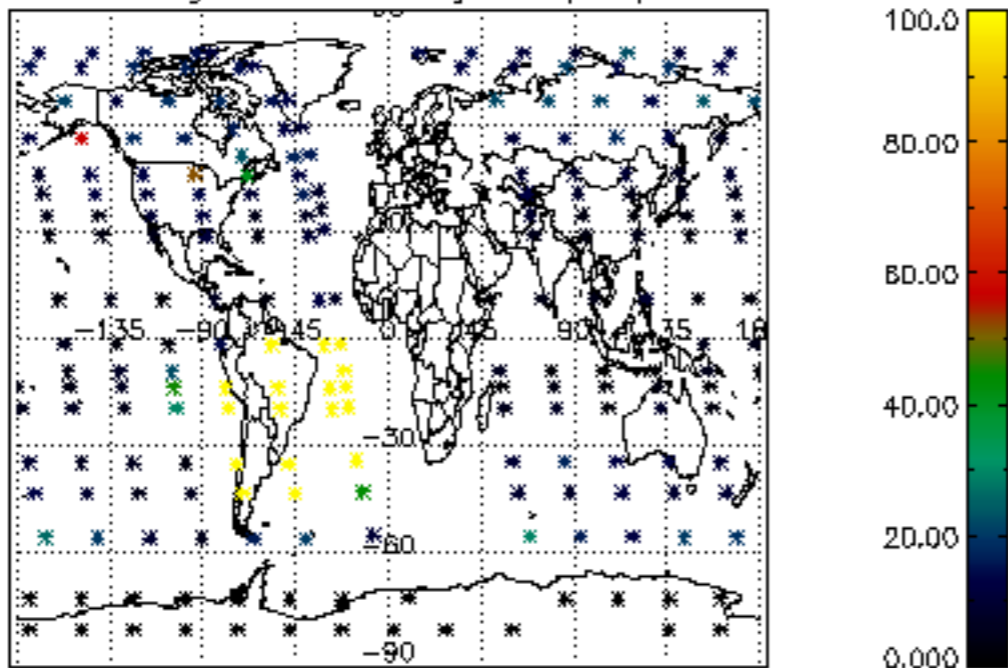
Percentage of flagged data per NO3 profile



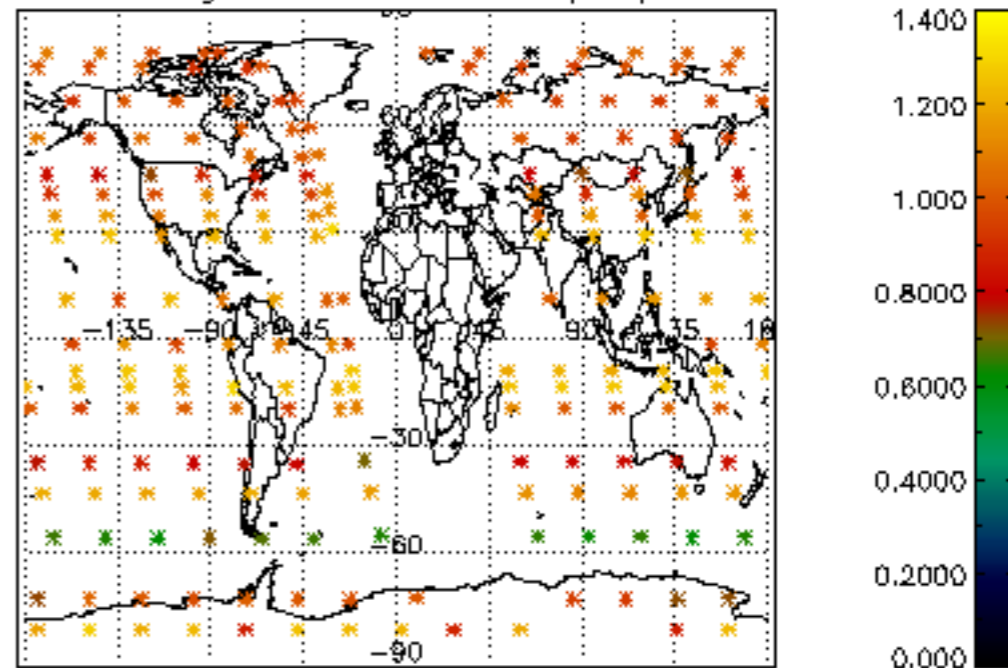




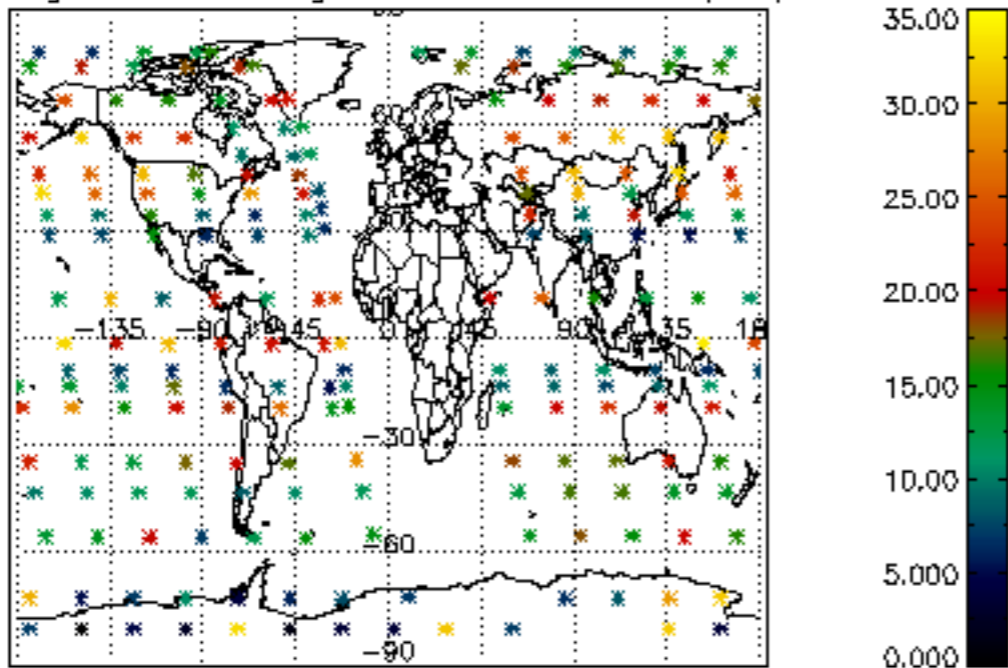
Percentage of cosmic ray hits per profile



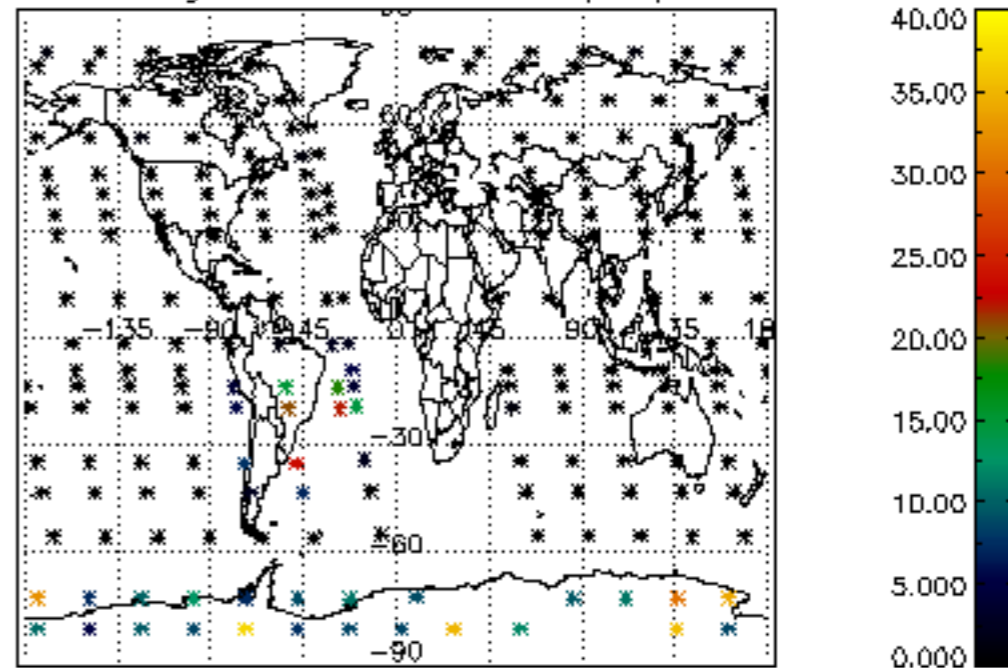
Percentage of datation errors per profile



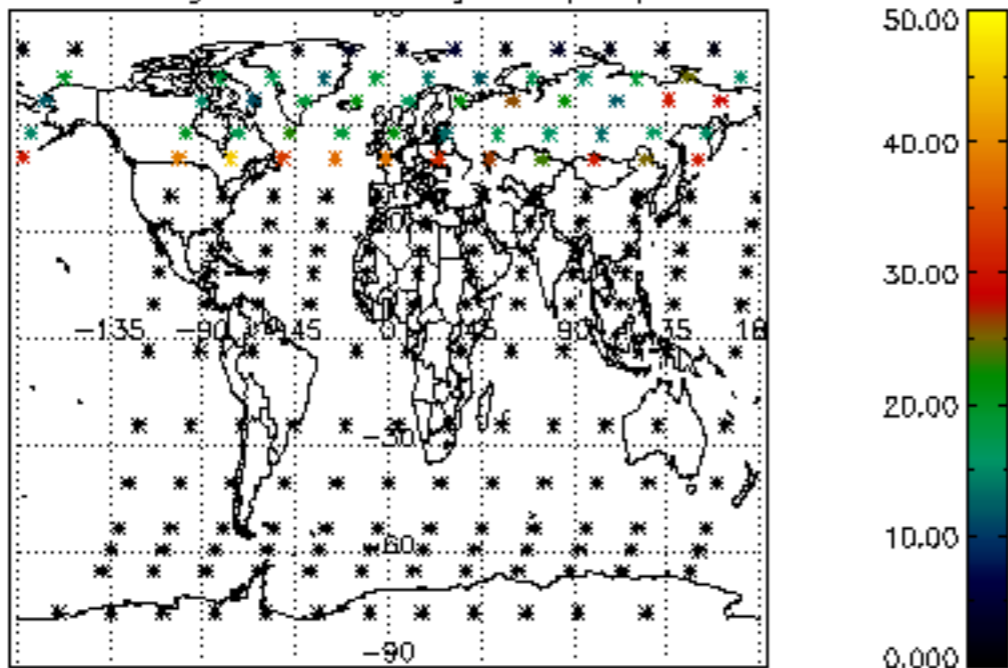
Percentage of star falling outside central band per profile



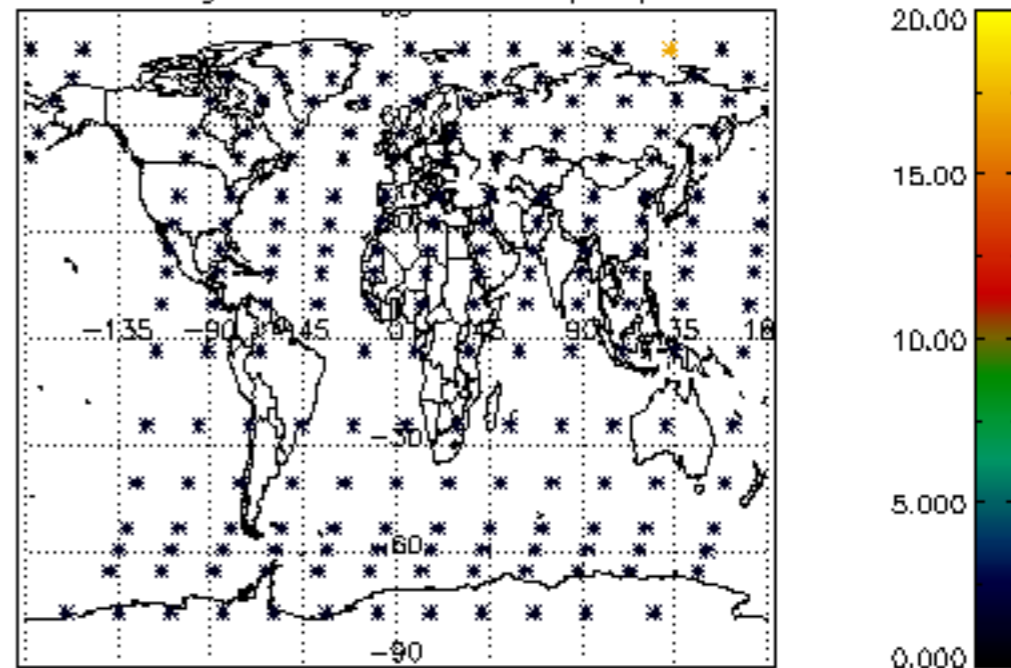
Percentage of saturation errors per profile



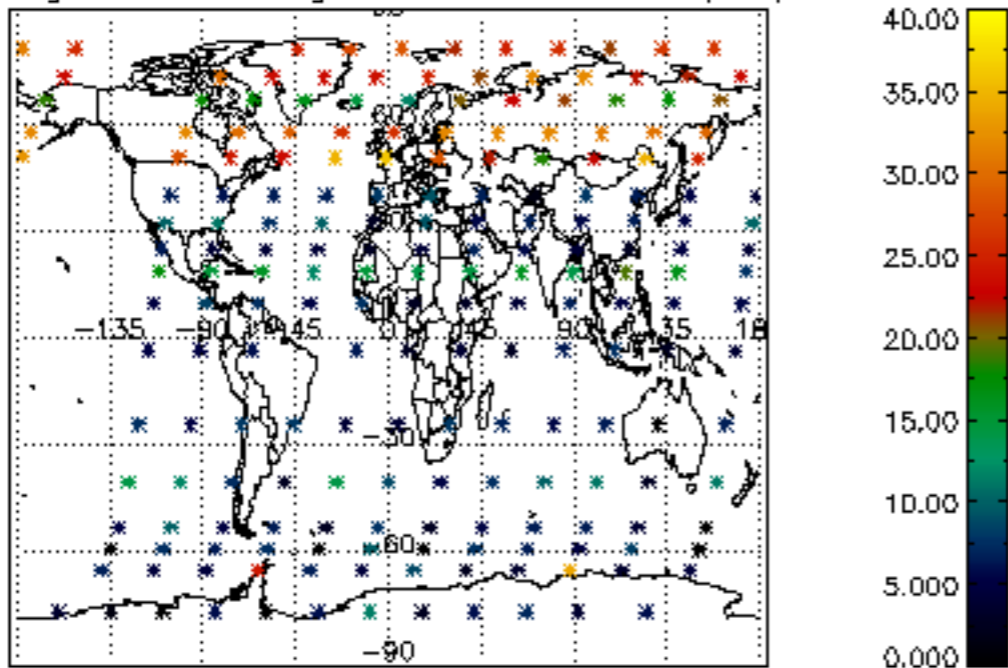
Percentage of cosmic ray hits per profile



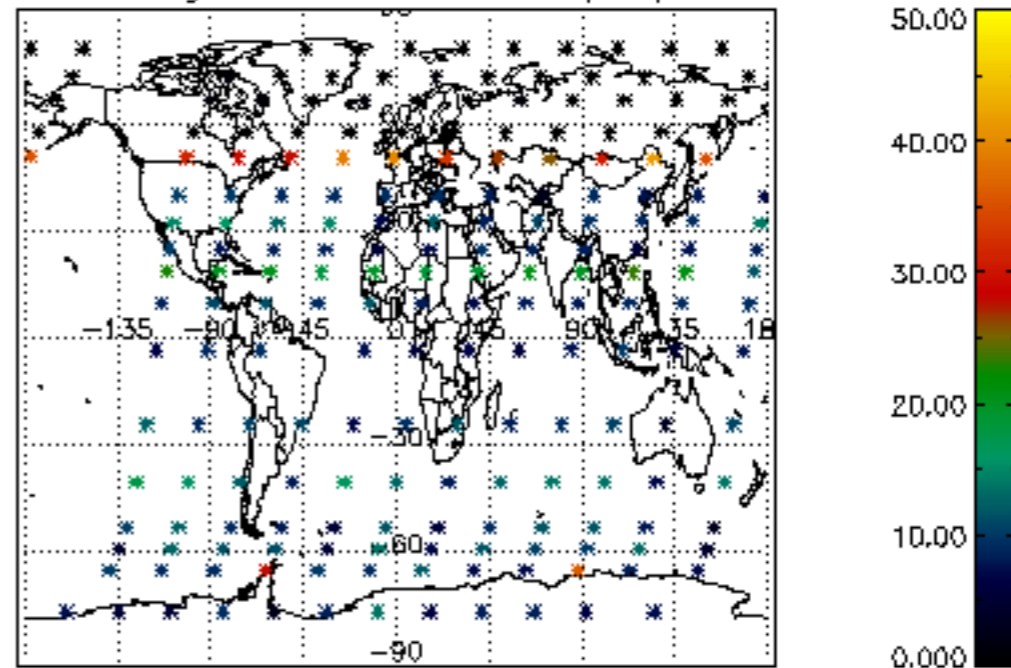
Percentage of datation errors per profile

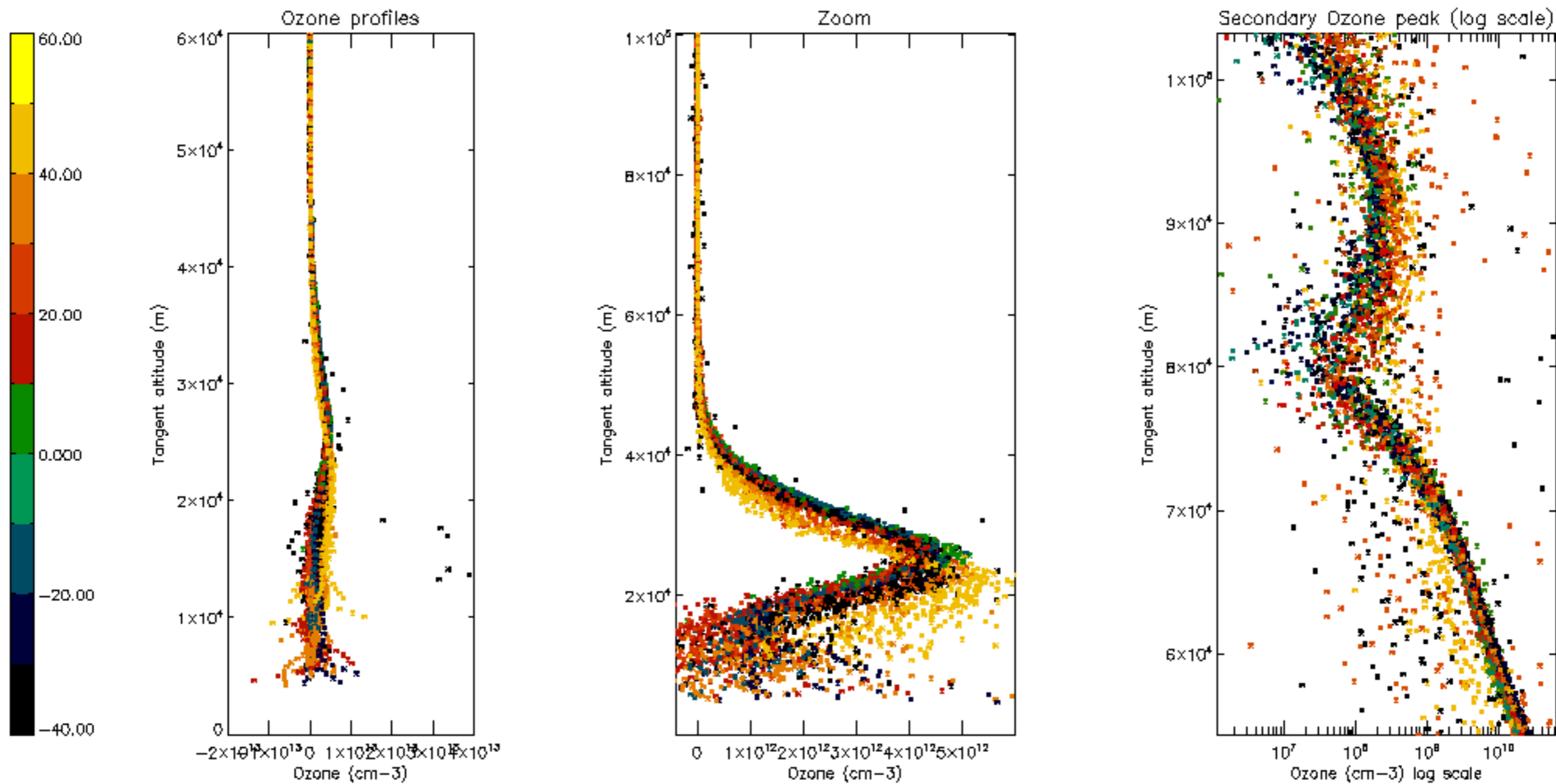


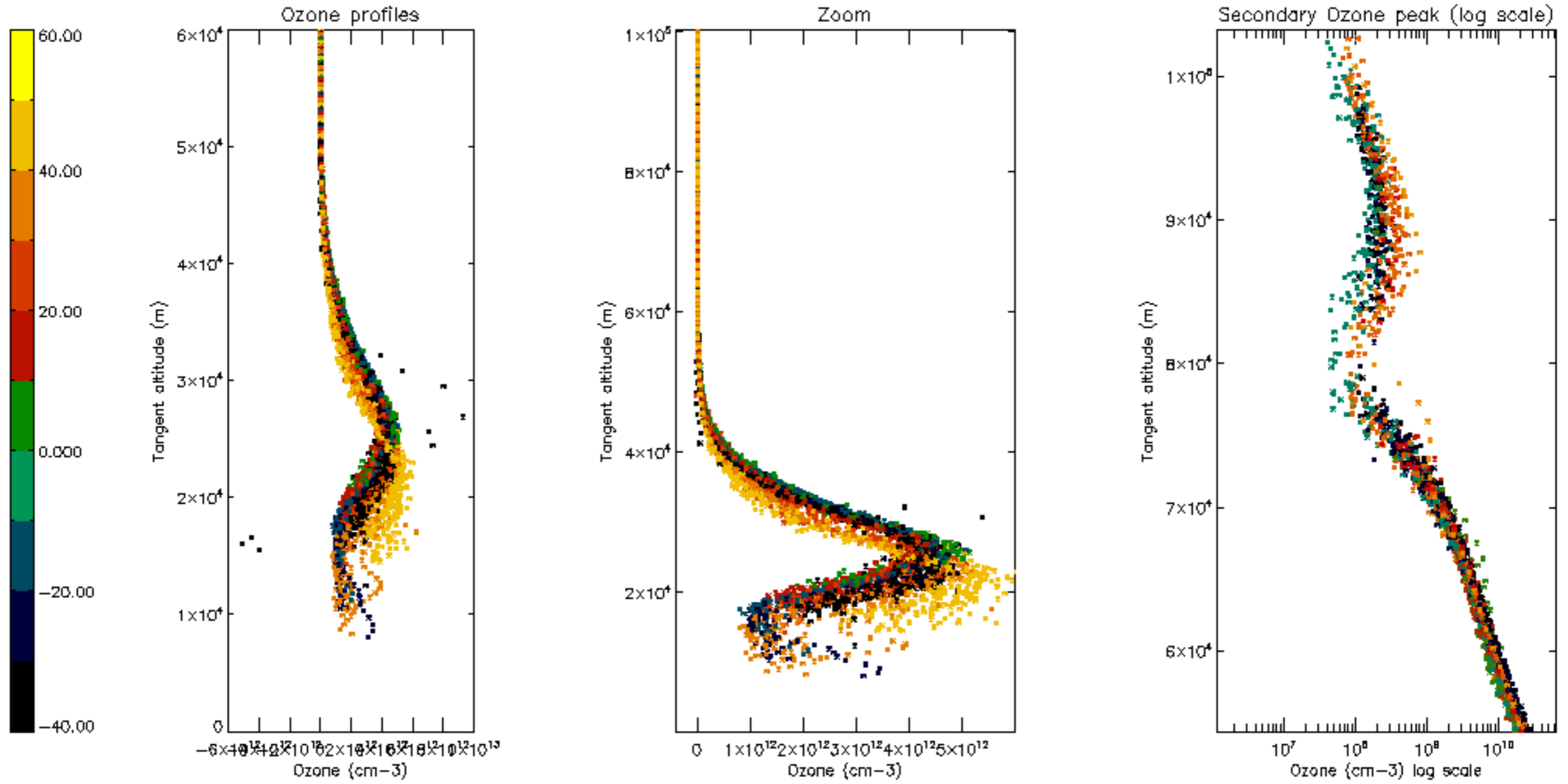
Percentage of star falling outside central band per profile

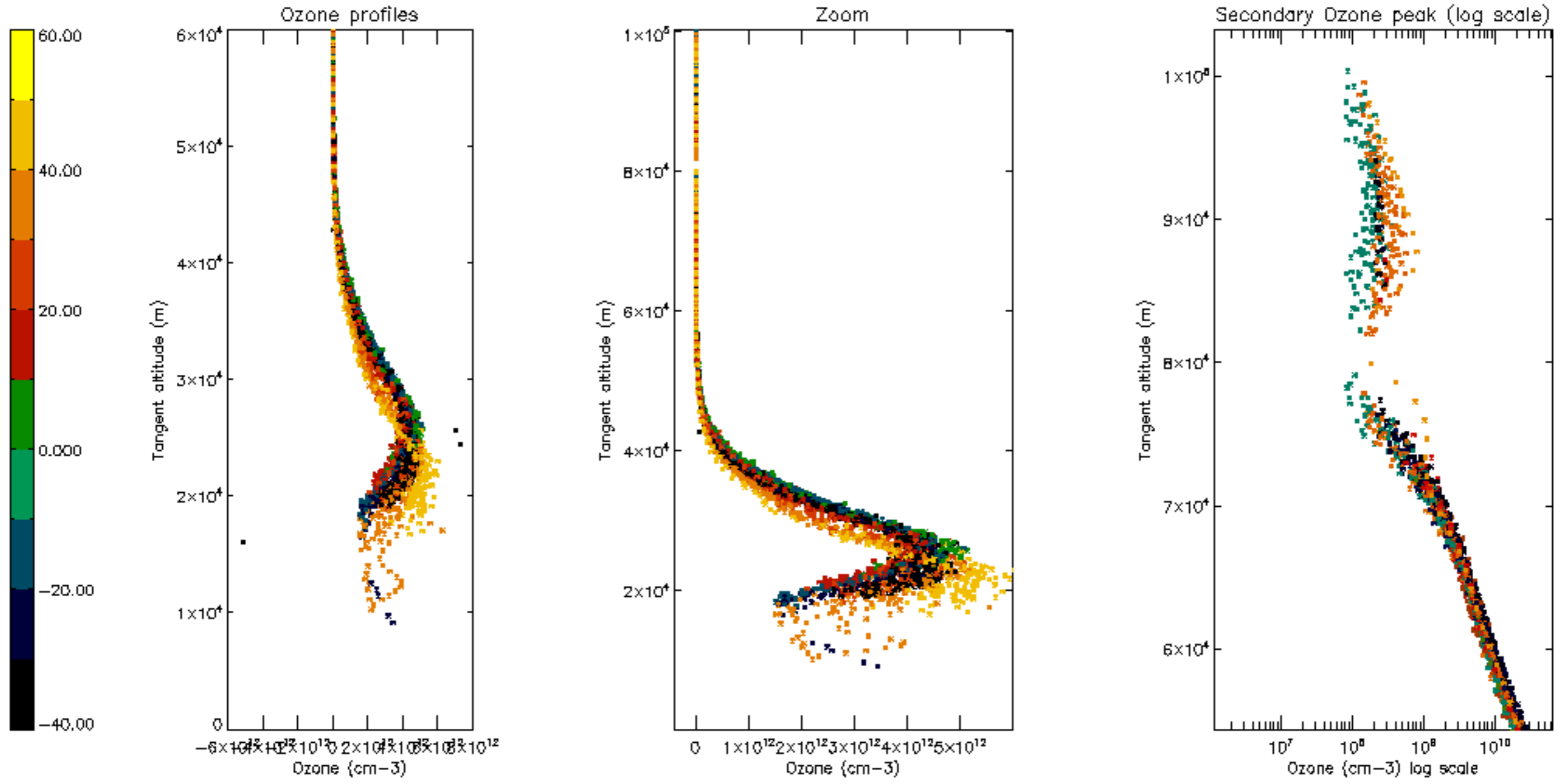


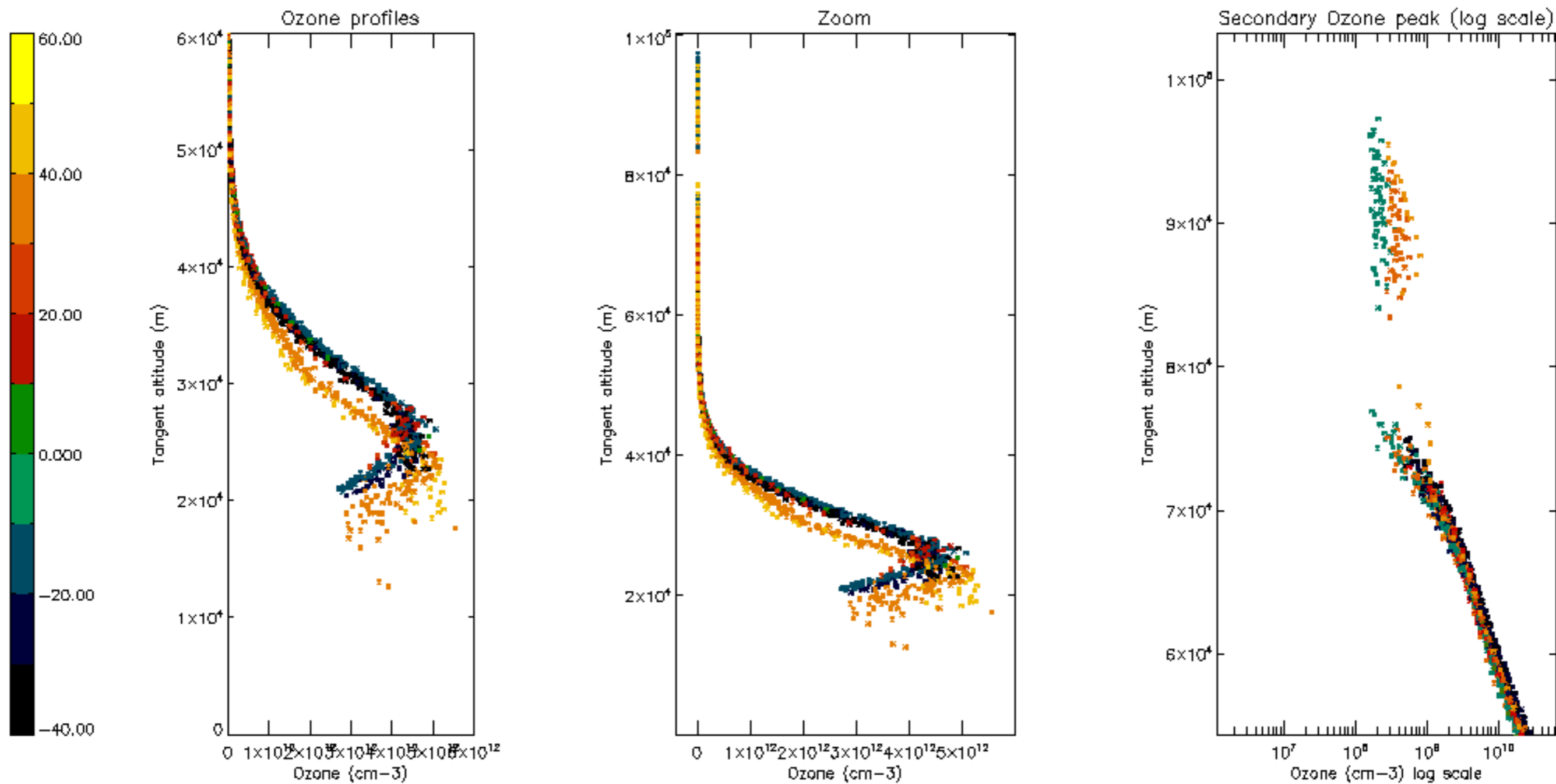
Percentage of saturation errors per profile

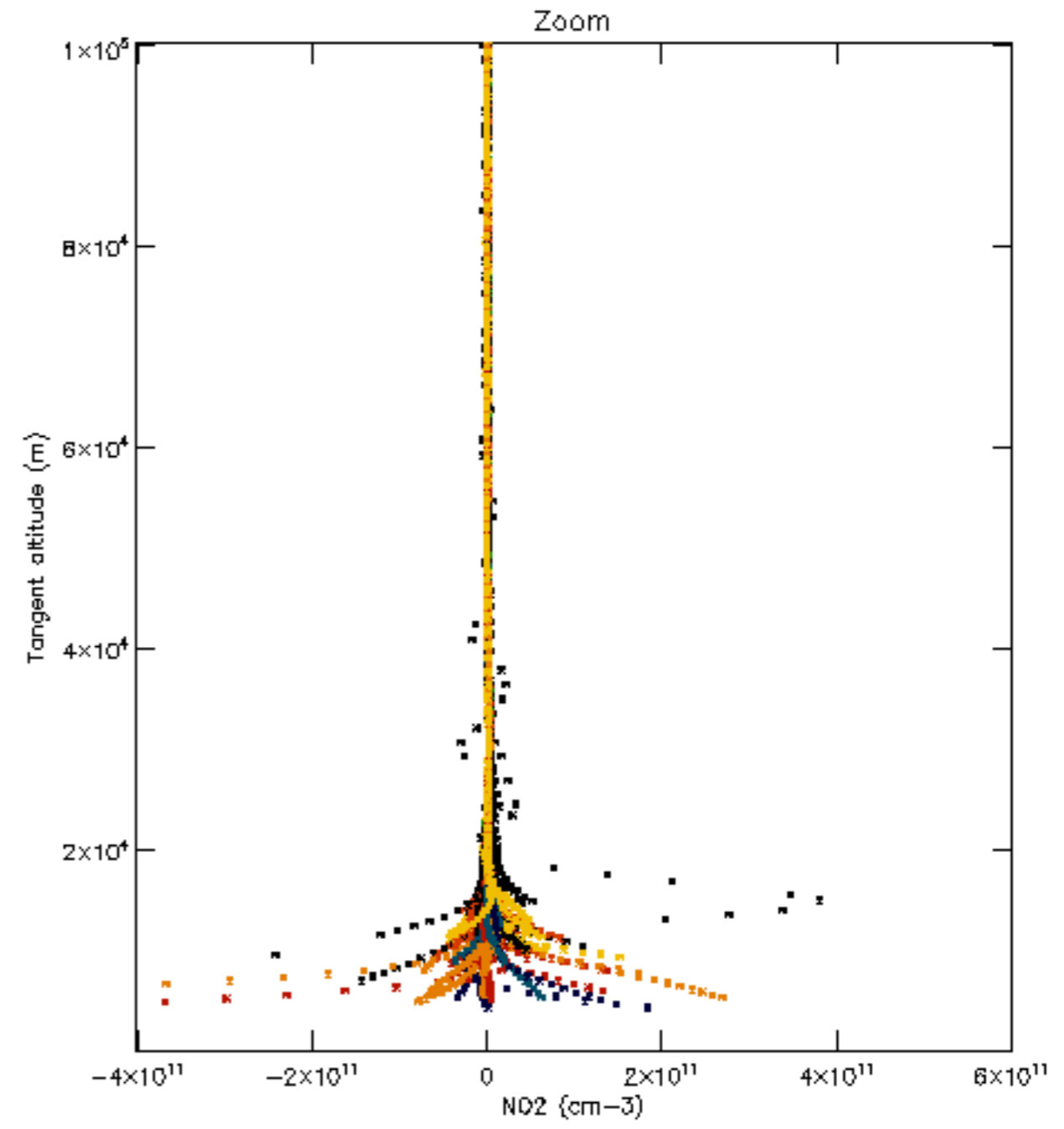
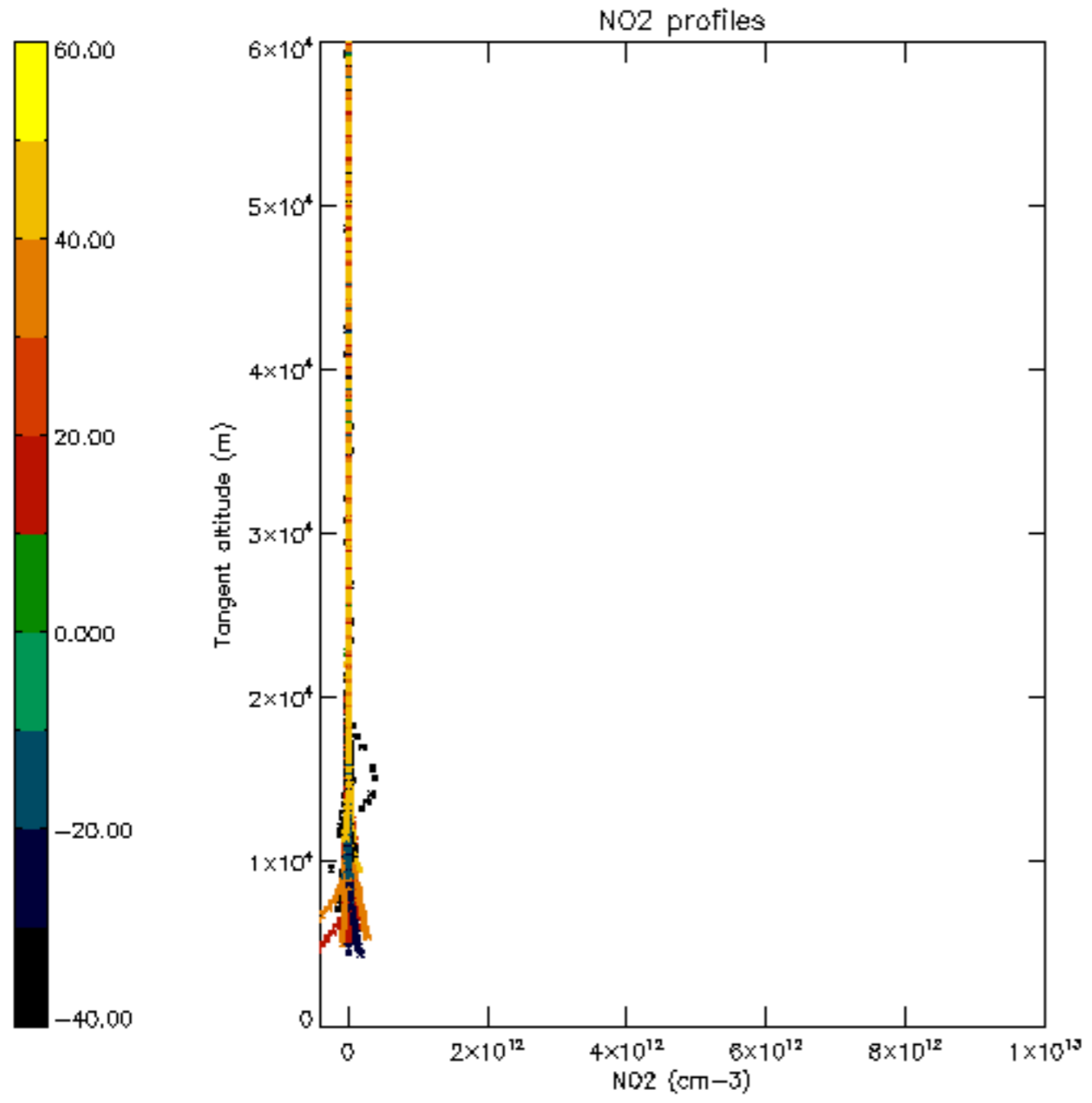


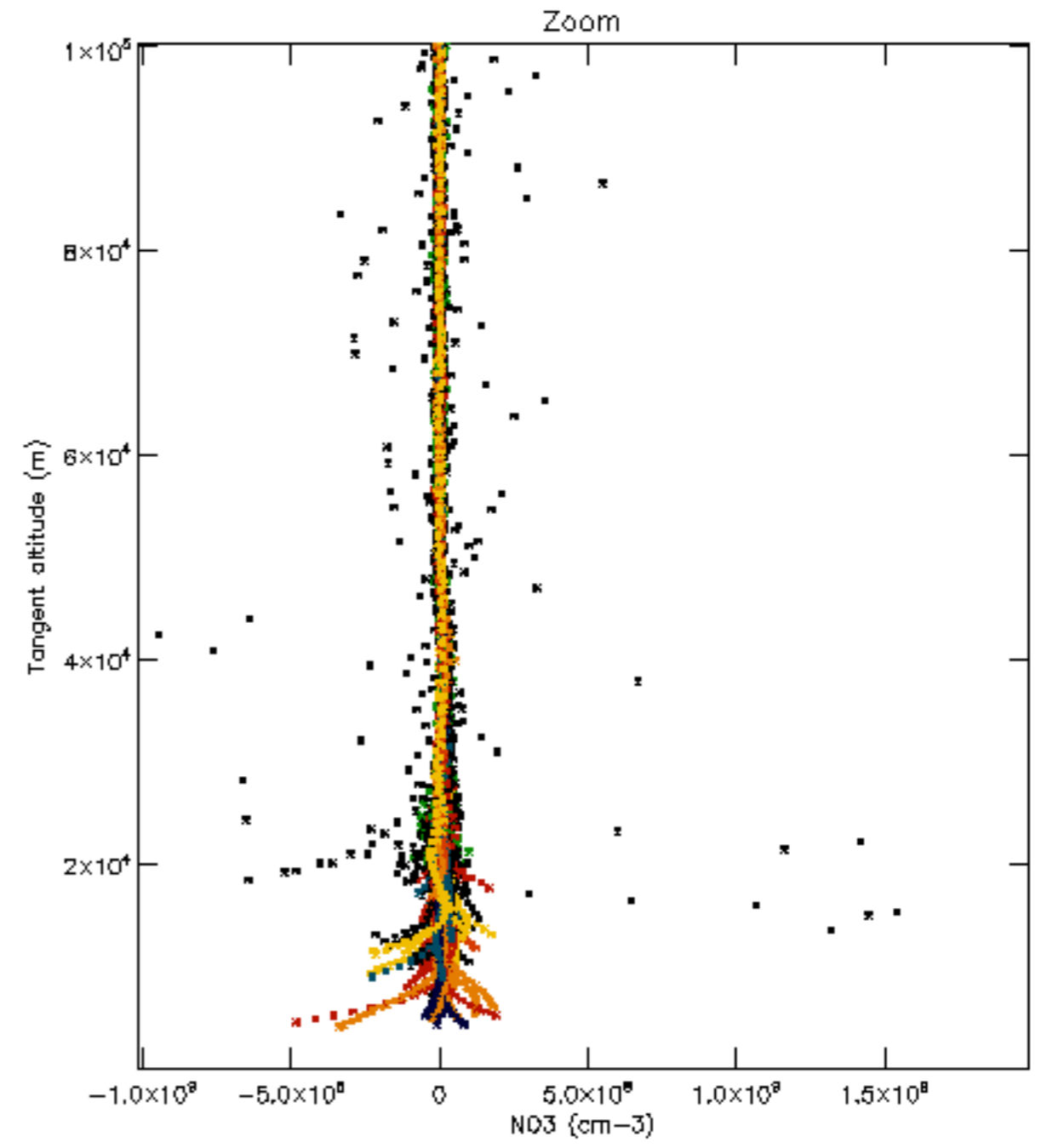
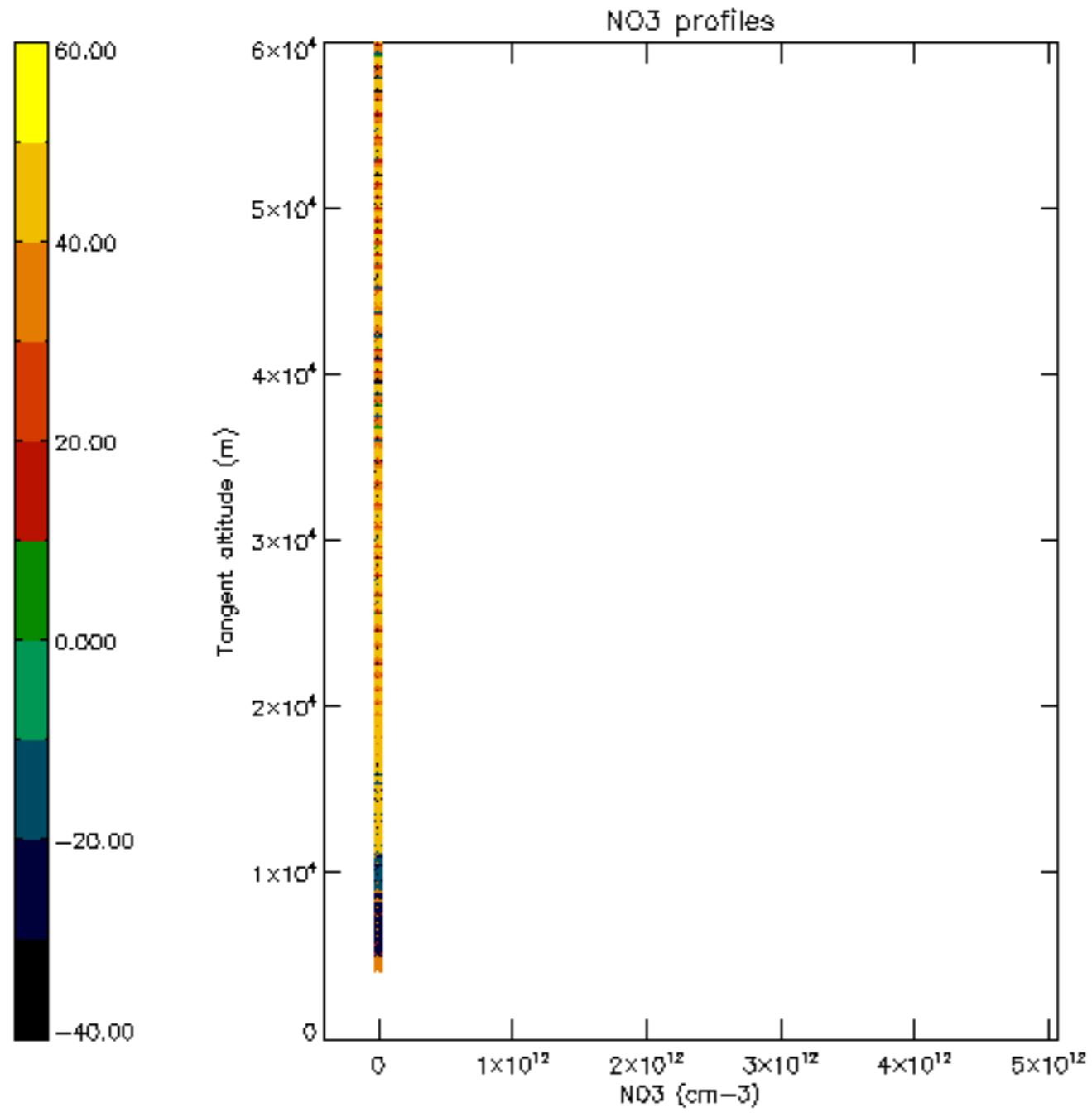


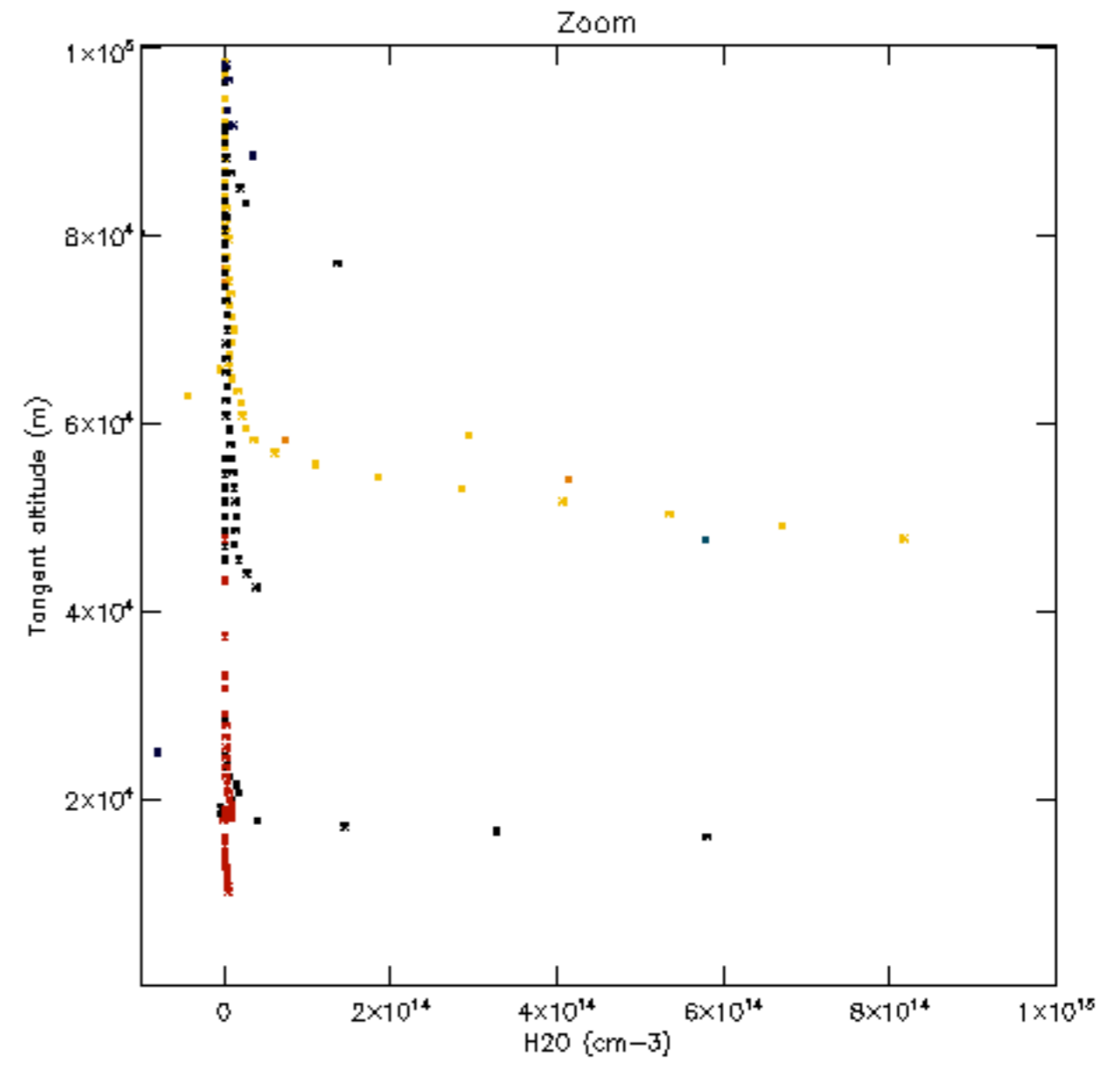
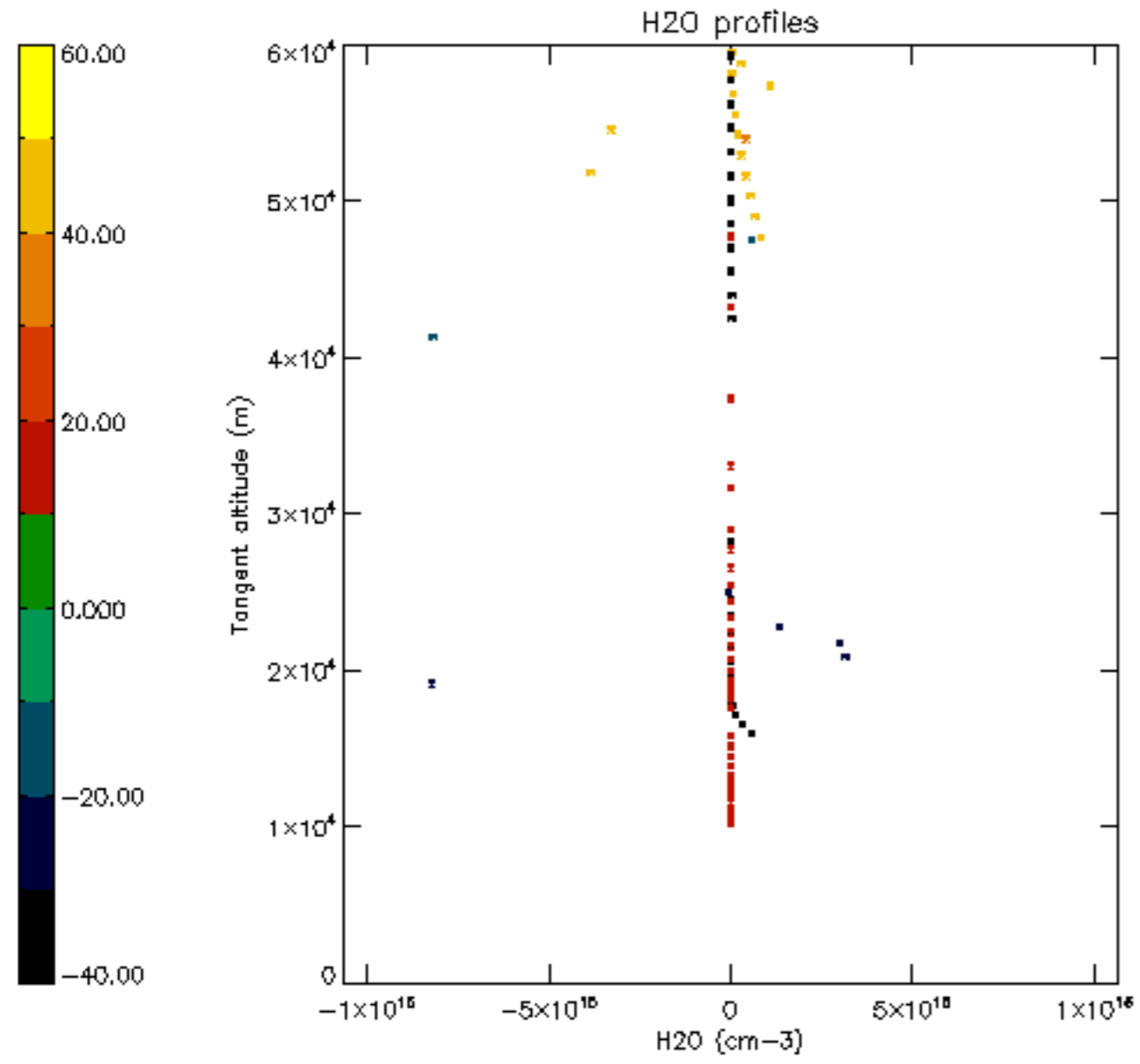


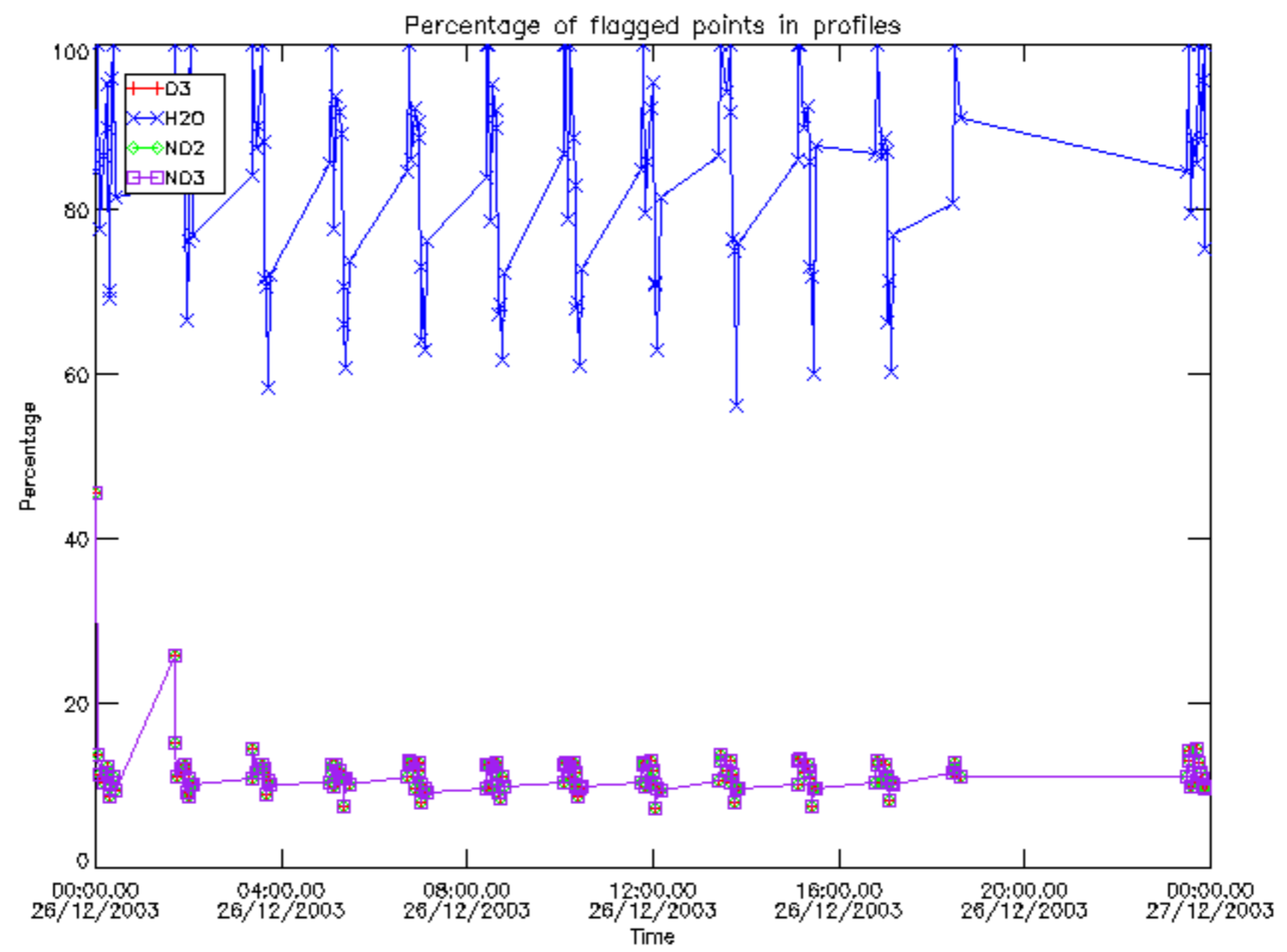




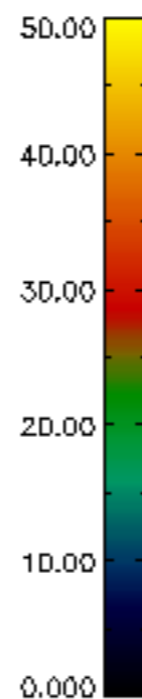
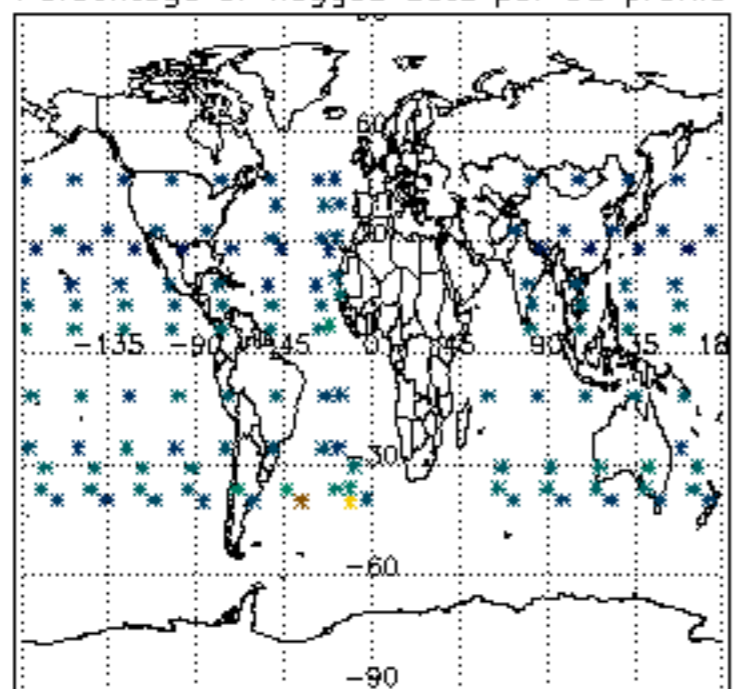




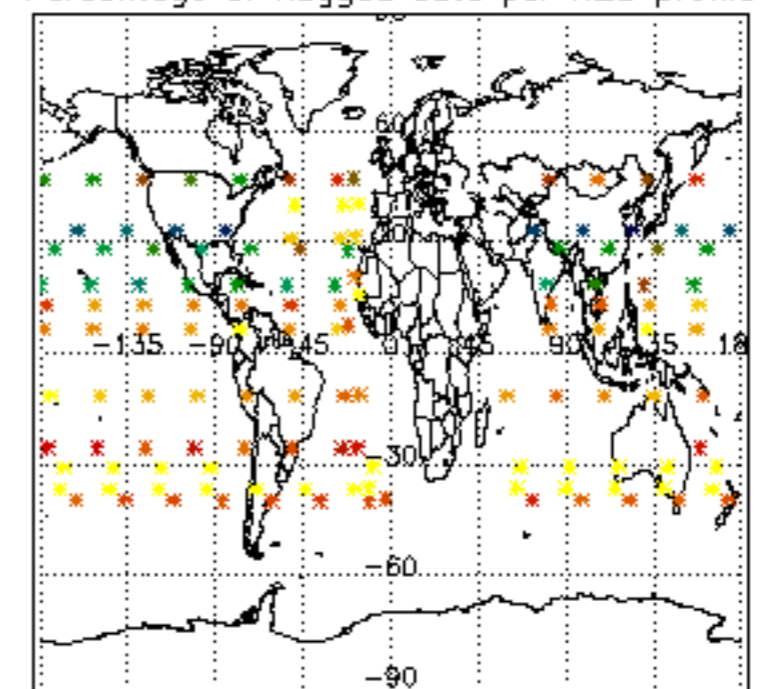




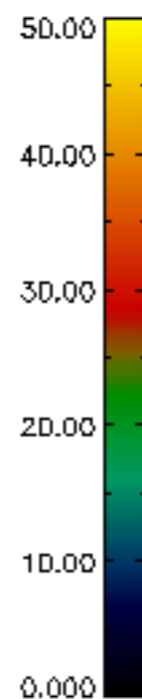
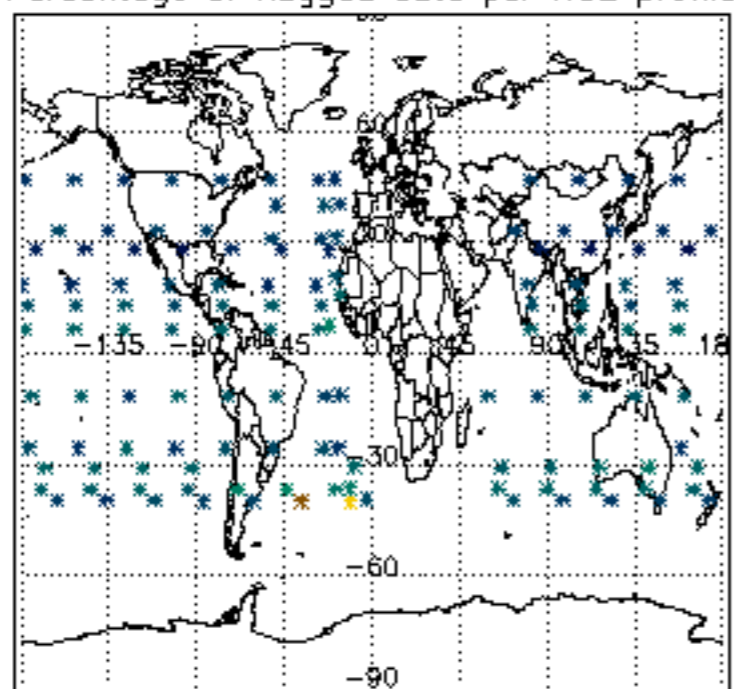
Percentage of flagged data per D3 profile



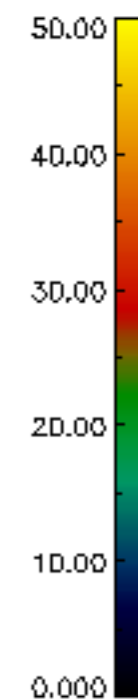
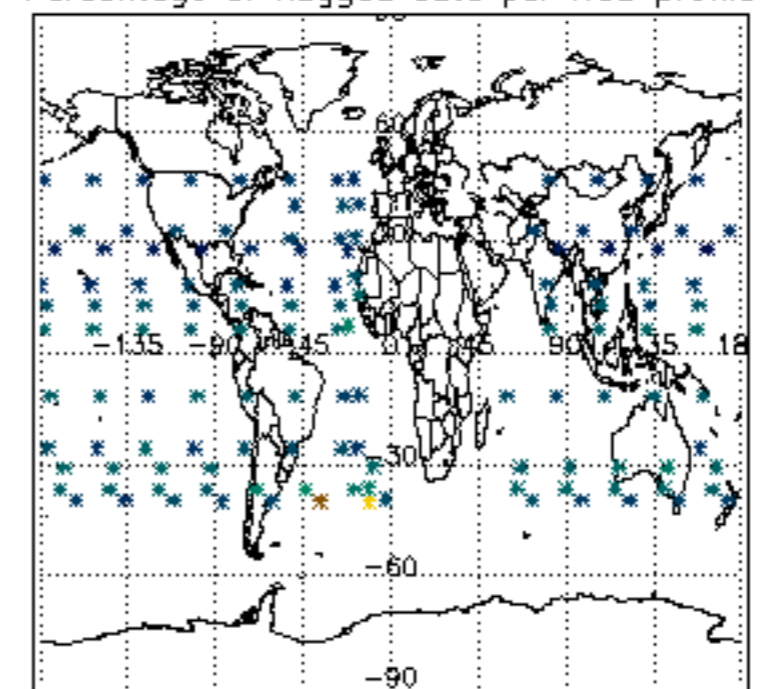
Percentage of flagged data per H2O profile

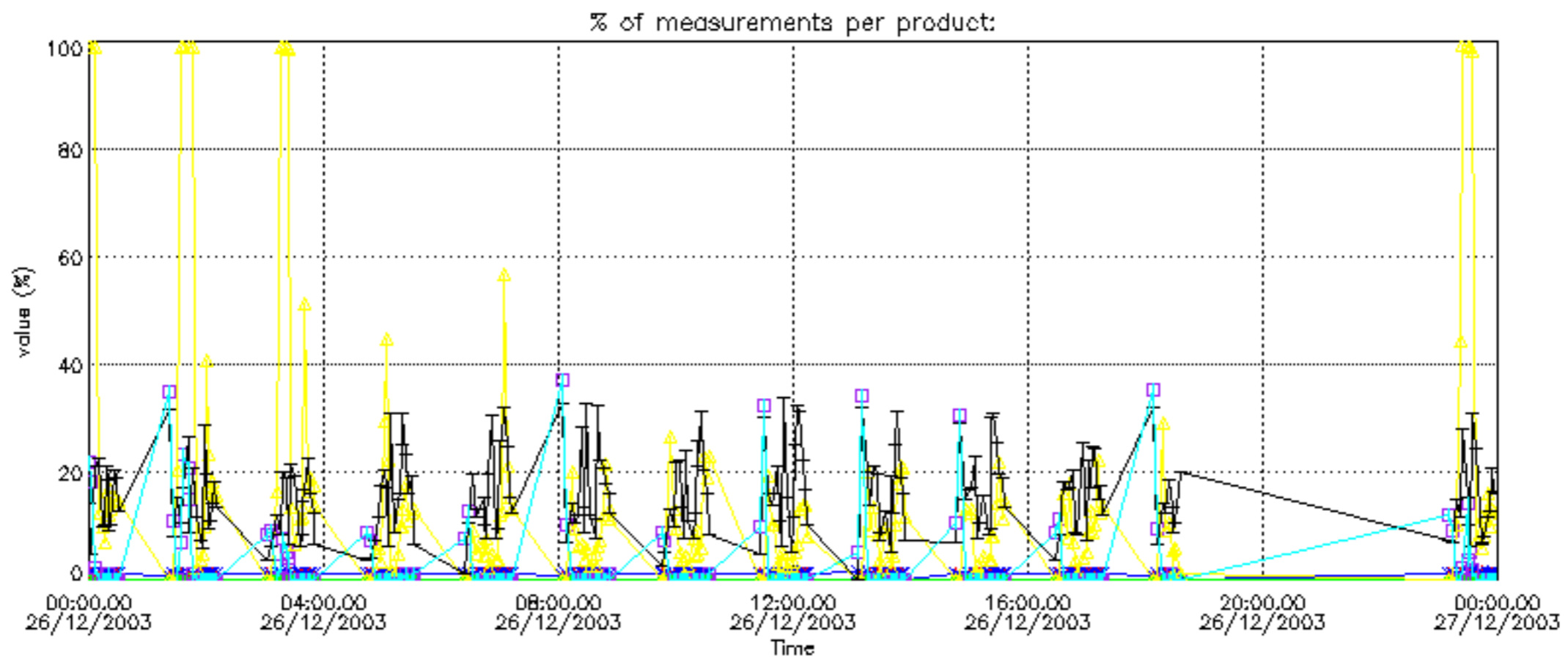


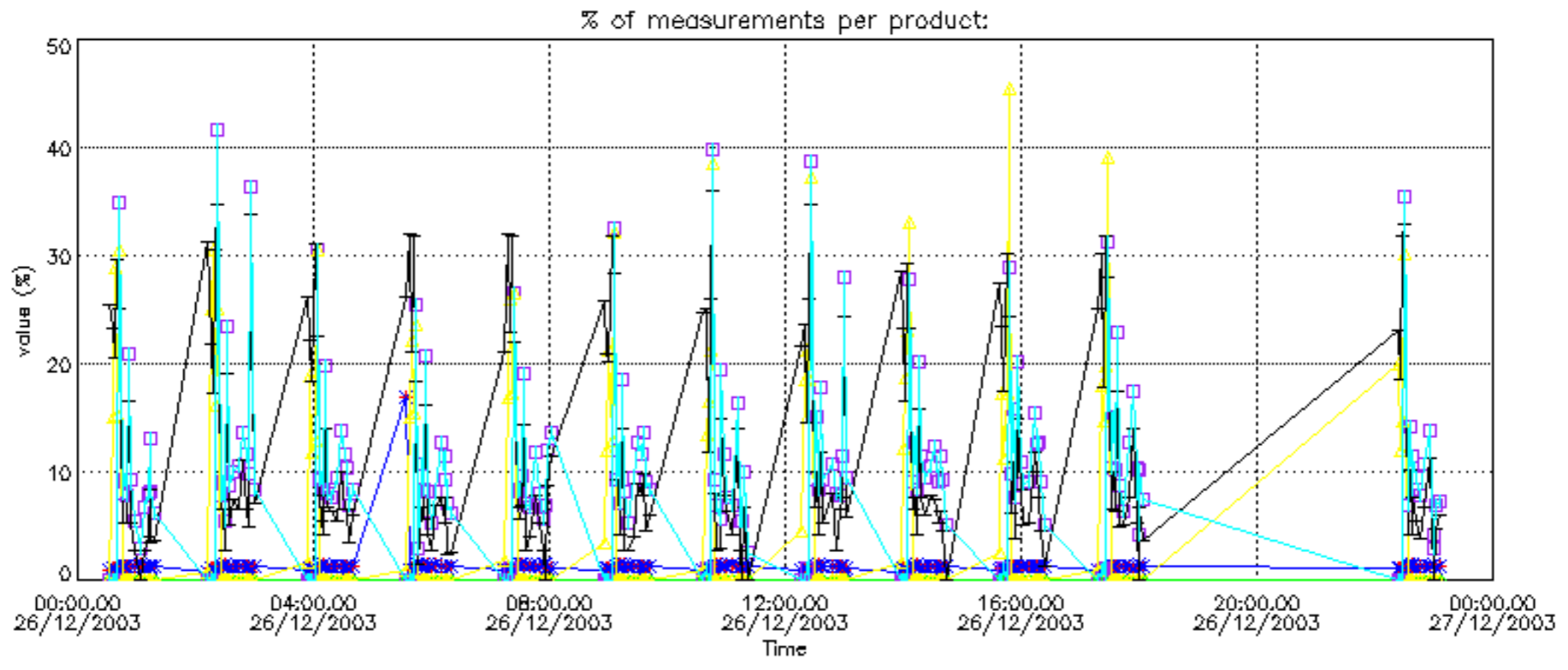
Percentage of flagged data per NO2 profile



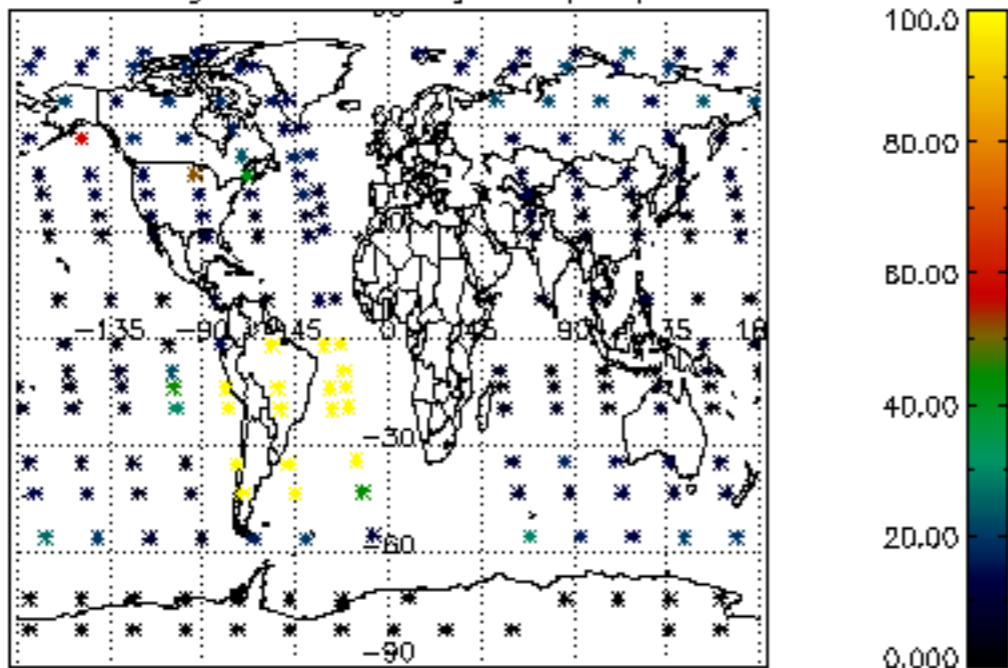
Percentage of flagged data per NO3 profile



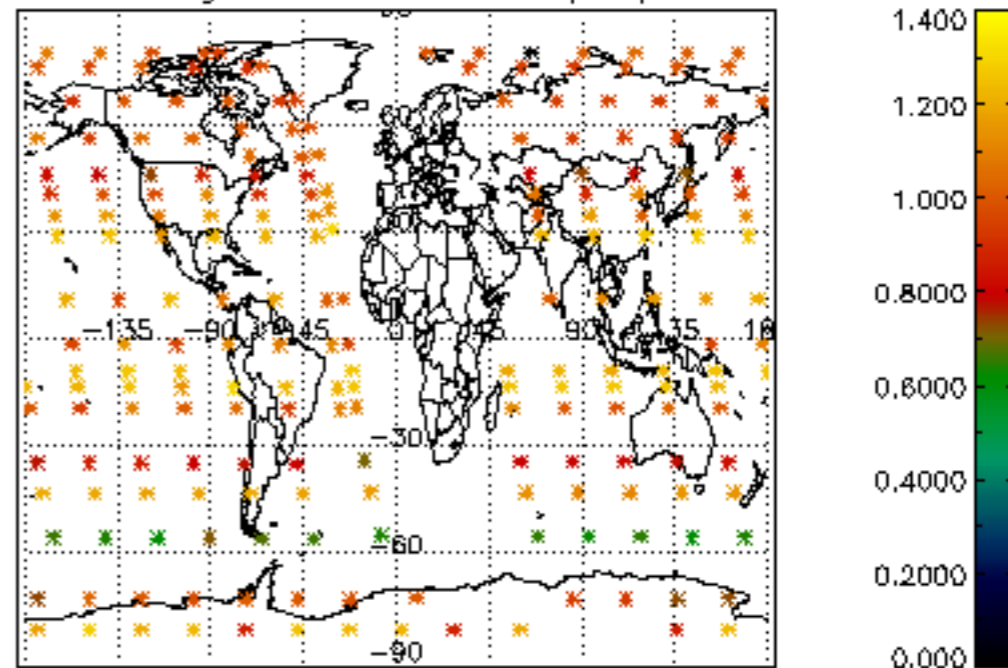




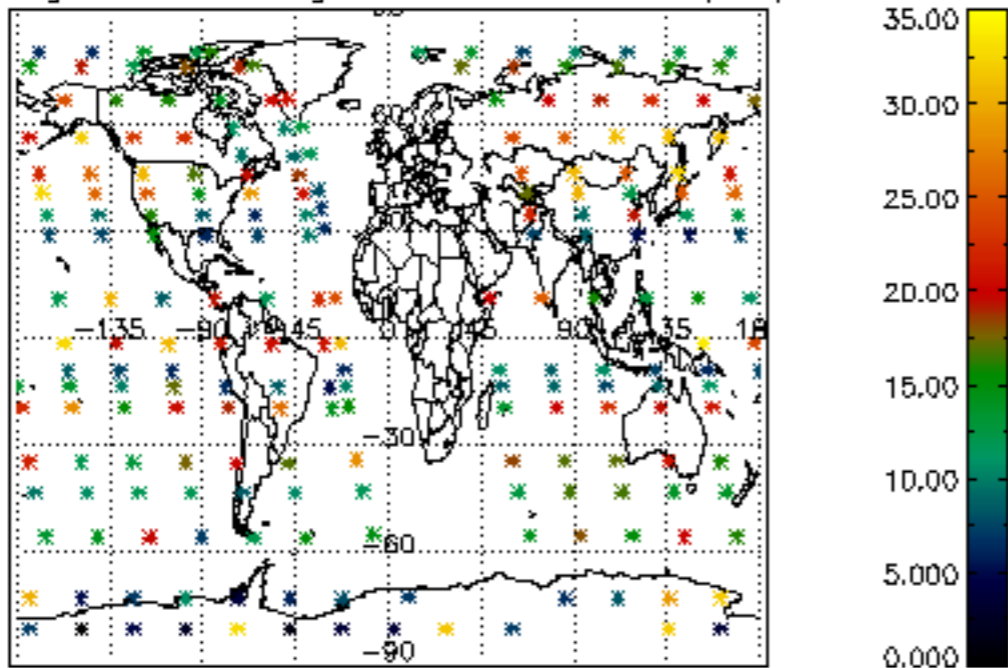
Percentage of cosmic ray hits per profile



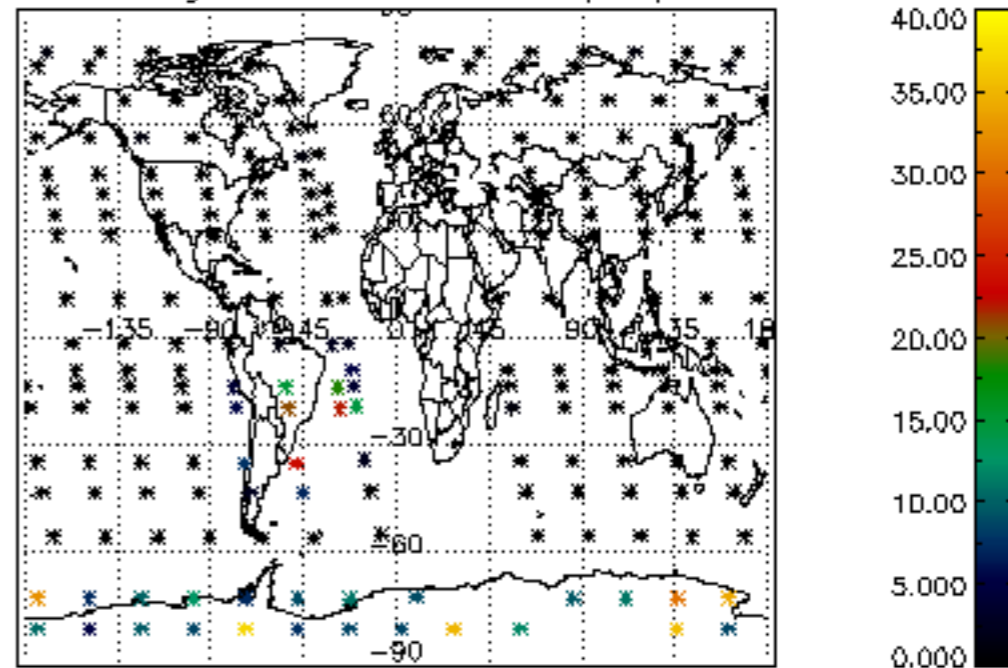
Percentage of datation errors per profile



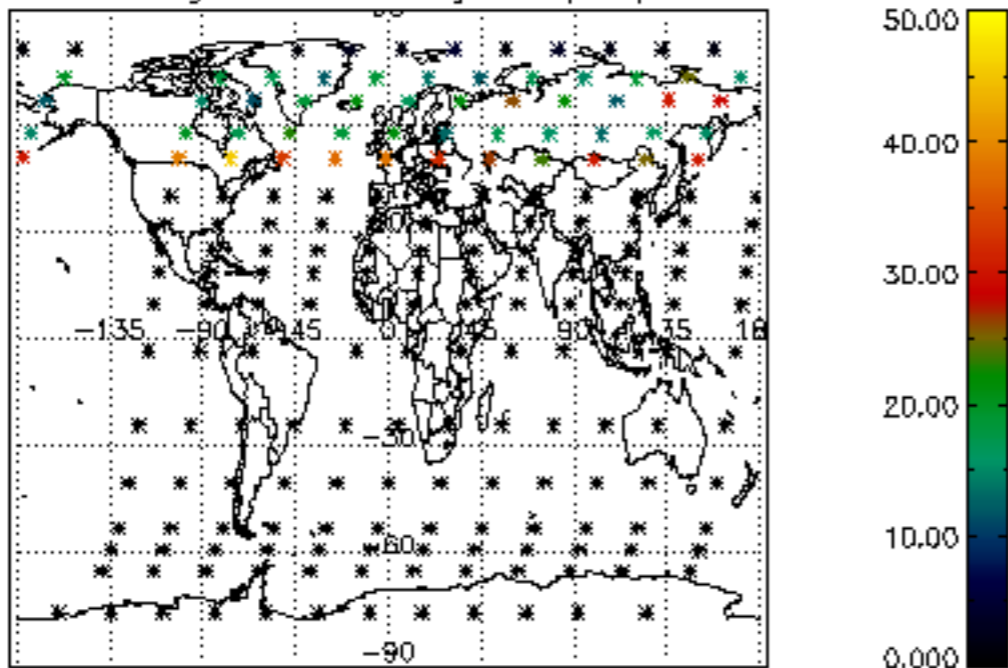
Percentage of star falling outside central band per profile



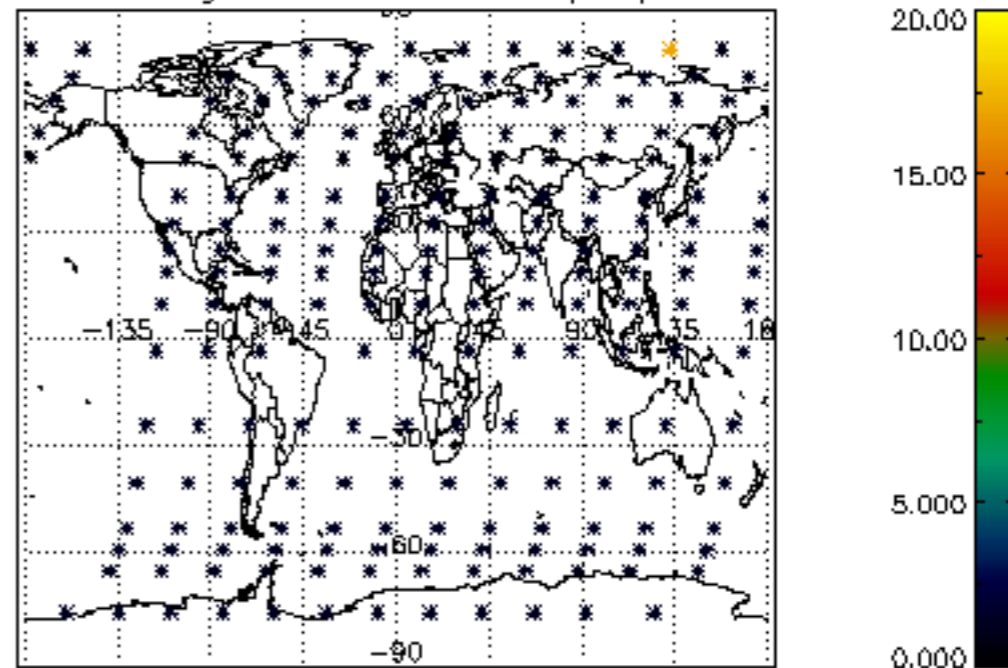
Percentage of saturation errors per profile



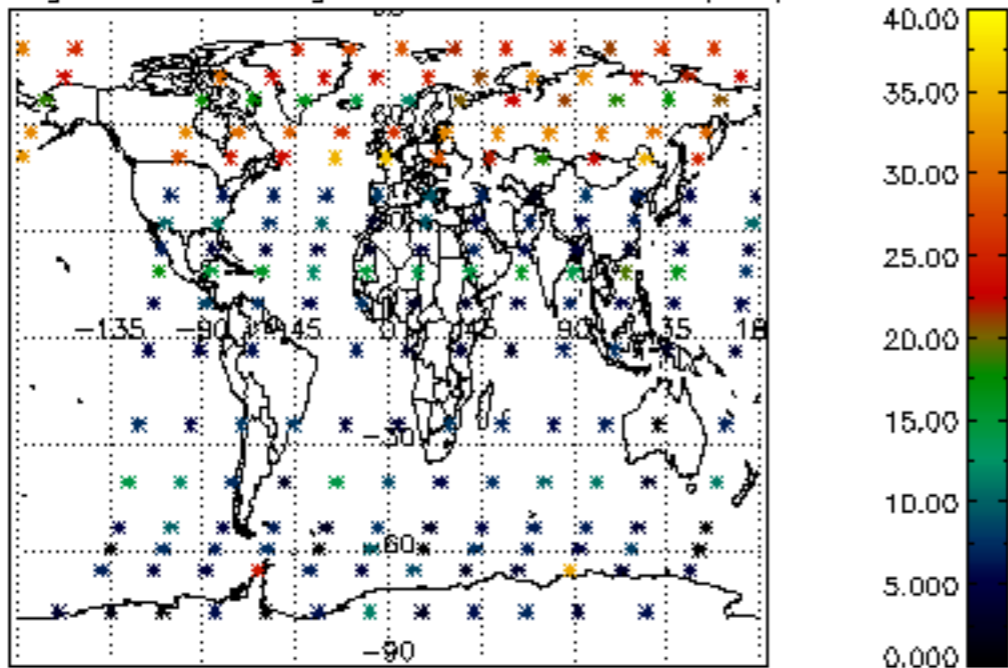
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

