

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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	19APR2013 12:03:48
Data source version	GOMOS/6.01
Start time of products	24-03-2003 (24MAR2003 00:00:00)
Stop time of products	25-03-2003 (25MAR2003 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	21
Nb of prods with errors	0

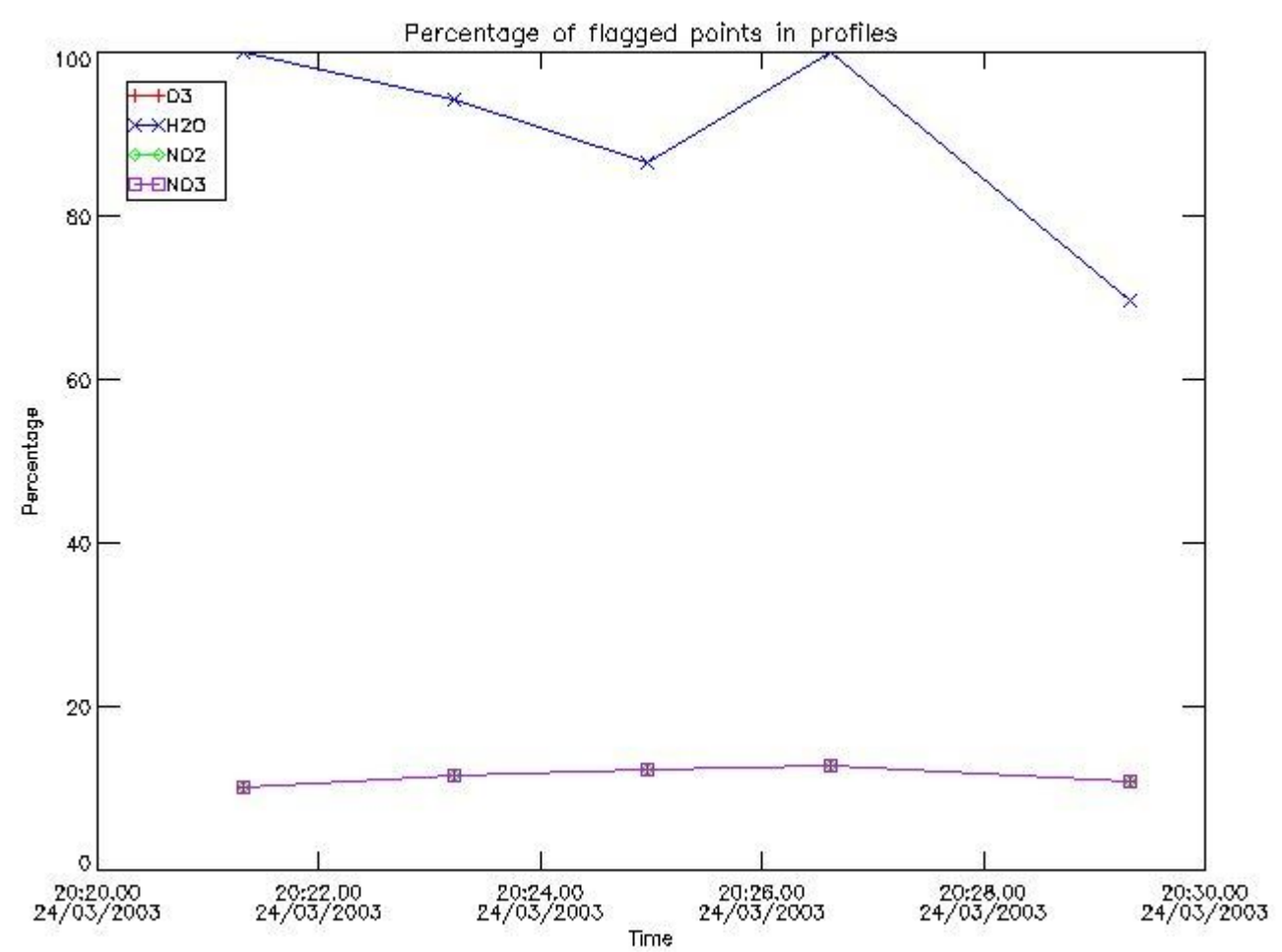
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20030324_202119_000000502014_00501_05565_5515.N1	24-MAR-2003 20:21:19	Dark	50.000	85	Kap Sco	2.4070	28000.	100	5565	No
2	GOM_NL__2PRFIN20030324_202312_000000442014_00501_05565_5516.N1	24-MAR-2003 20:23:12	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	5565	No
3	GOM_NL__2PRFIN20030324_202457_000000422014_00501_05565_5517.N1	24-MAR-2003 20:24:57	Dark	41.500	43	Alp TrA	1.9100	4250.0	83	5565	No
4	GOM_NL__2PRFIN20030324_202636_000000402014_00501_05565_5518.N1	24-MAR-2003 20:26:36	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	5565	No
5	GOM_NL__2PRFIN20030324_202919_000000472014_00501_05565_5519.N1	24-MAR-2003 20:29:19	Dark	46.500	4	Alp1Cen	-0.010000	5800.0	93	5565	No
6	GOM_NL__2PRFIN20030324_203201_000000482014_00501_05565_5520.N1	24-MAR-2003 20:32:01	Straylight	48.000	12	Alp1Cru	0.77500	30000.	96	5565	No
7	GOM_NL__2PRFIN20030324_203324_000000512014_00501_05565_5521.N1	24-MAR-2003 20:33:24	Straylight	51.000	26	Gam Cru	1.6240	2900.0	102	5565	No
8	GOM_NL__2PRFIN20030324_203515_000000432014_00501_05565_5522.N1	24-MAR-2003 20:35:15	Straylight	43.000	64	Gam Cen	2.2000	10600.	86	5565	No
9	GOM_NL__2PRFIN20030324_203658_000000412014_00501_05565_5523.N1	24-MAR-2003 20:36:58	Straylight	40.500	113	Mu Vel	2.6920	5000.0	81	5565	No
10	GOM_NL__2PRFIN20030324_204255_000000512014_00501_05565_5524.N1	24-MAR-2003 20:42:55	Straylight	50.500	106	9Bet Crv	2.6480	5600.0	101	5565	No
11	GOM_NL__2PRFIN20030324_204501_000000472014_00501_05565_5525.N1	24-MAR-2003 20:45:01	Twilight_stray	47.000	100	4Gam Crv	2.5800	13100.	94	5565	No
12	GOM_NL__2PRFIN20030324_204712_000000732014_00501_05565_5526.N1	24-MAR-2003 20:47:12	Bright	72.500	15	67Alp Vir	0.97600	28000.	145	5565	No
13	GOM_NL__2PRFIN20030324_205039_000000492014_00501_05565_5527.N1	24-MAR-2003 20:50:39	Bright	49.000	121	29Gam Vir	2.7400	7200.0	98	5565	No
14	GOM_NL__2PRFIN20030324_205419_000000372014_00501_05565_5528.N1	24-MAR-2003 20:54:19	Bright	37.000	22	32Alp Leo	1.3600	15200.	74	5565	No
15	GOM_NL__2PRFIN20030324_205626_000000372014_00501_05565_5529.N1	24-MAR-2003 20:56:26	Bright	36.500	51	41Gam1Leo	2.0100	4500.0	73	5565	No
16	GOM_NL__2PRFIN20030324_205748_000000372014_00501_05565_5530.N1	24-MAR-2003 20:57:48	Bright	36.500	166	17Eps Leo	2.9800	6000.0	73	5565	No
17	GOM_NL__2PRFIN20030324_210338_000000382014_00501_05565_5531.N1	24-MAR-2003 21:03:38	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	5565	No
18	GOM_NL__2PRFIN20030324_210655_000000362014_00501_05565_5532.N1	24-MAR-2003 21:06:55	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	5565	No
19	GOM_NL__2PRFIN20030324_210827_000000372014_00501_05565_5533.N1	24-MAR-2003 21:08:27	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	5565	No
20	GOM_NL__2PRFIN20030324_211006_000000452014_00501_05565_5534.N1	24-MAR-2003 21:10:06	Bright	45.000	55	79Zet UMa	2.0600	10200.	90	5565	No
21	GOM_NL__2PRFIN20030324_211842_000000482014_00501_05565_5535.N1	24-MAR-2003 21:18:42	Bright	48.000	119	14Eta Dra	2.7270	4700.0	96	5565	No

3. Quality information per product

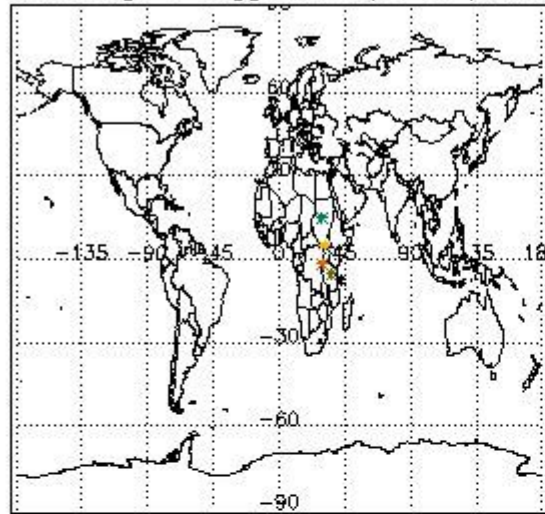
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

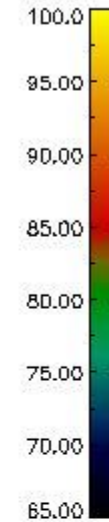
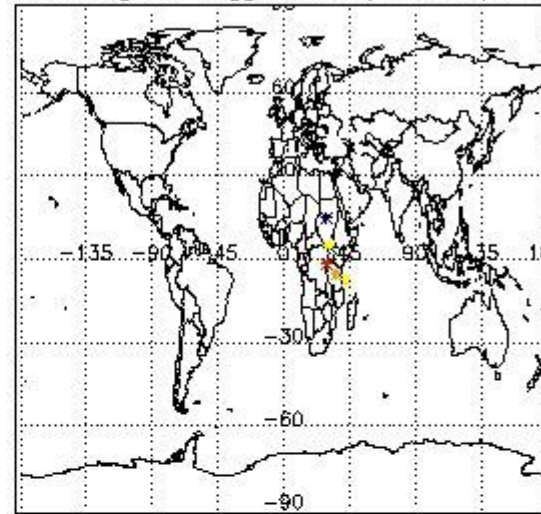


3.2 Plot quality information per product (world map)

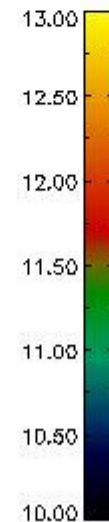
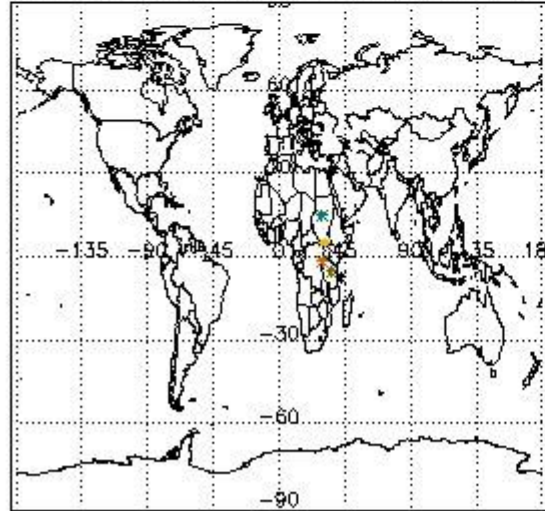
Percentage of flagged data per O3 profile



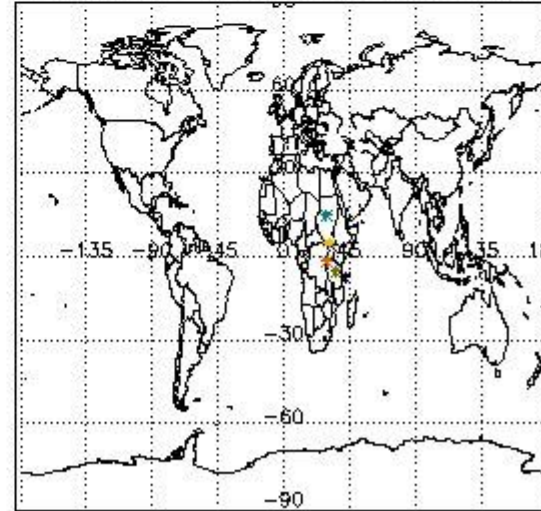
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

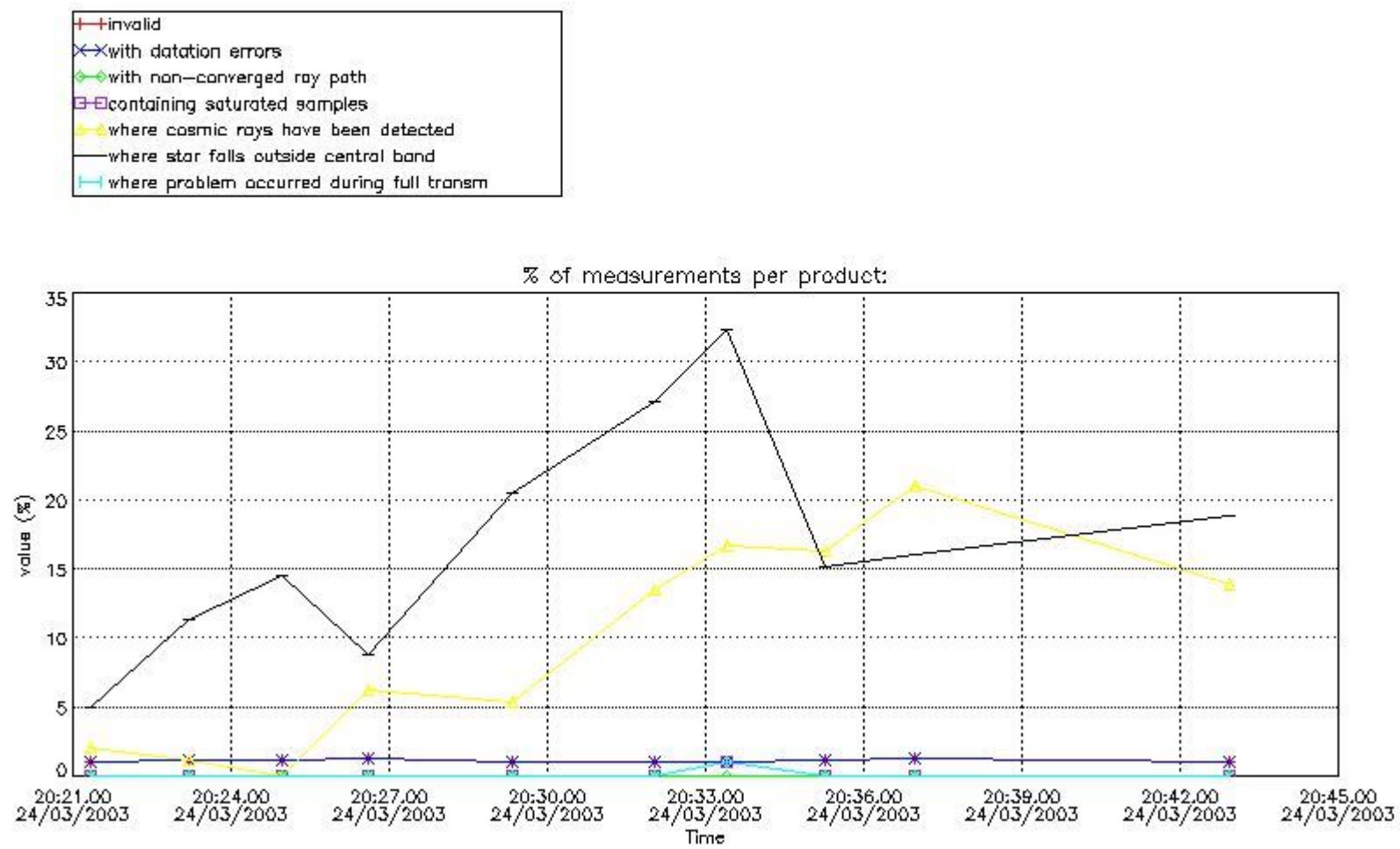


4. Level 1 quality information per product

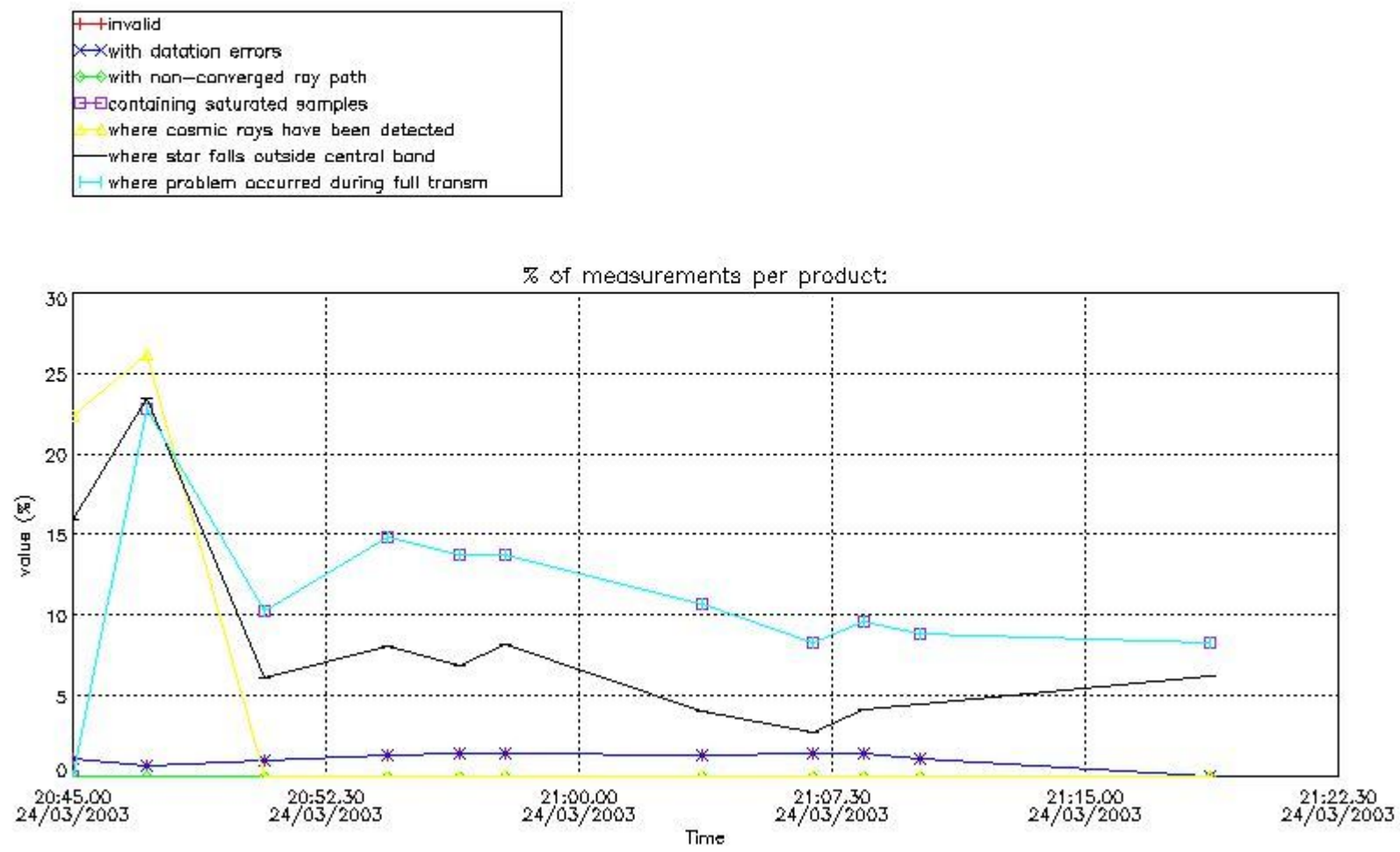
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



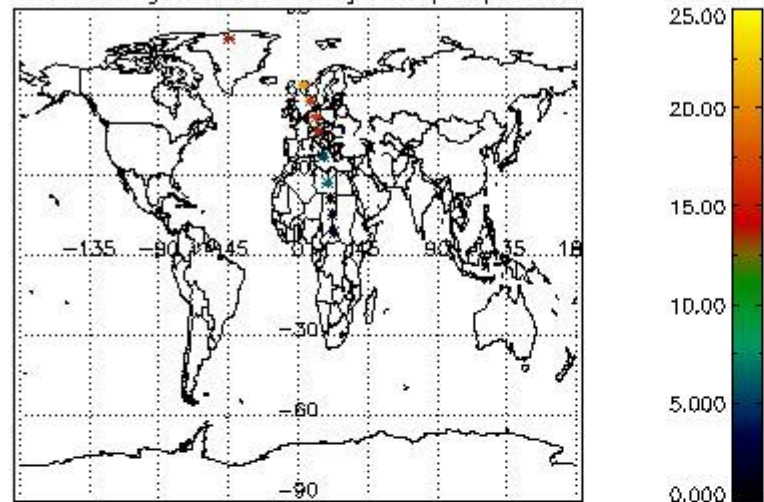
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



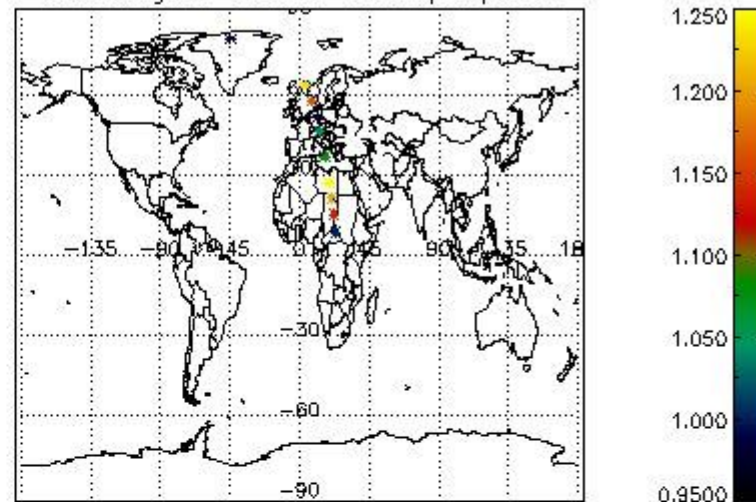
4.2 Plot quality information per product coming from level 1b processing (world map)

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

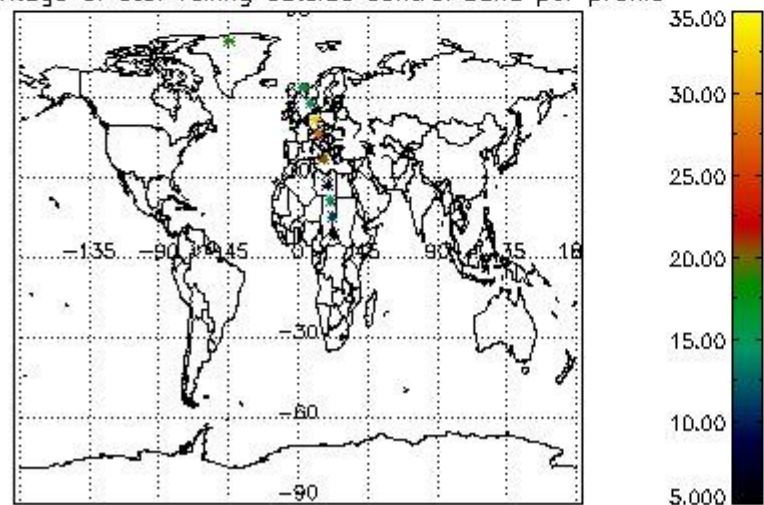
Percentage of cosmic ray hits per profile



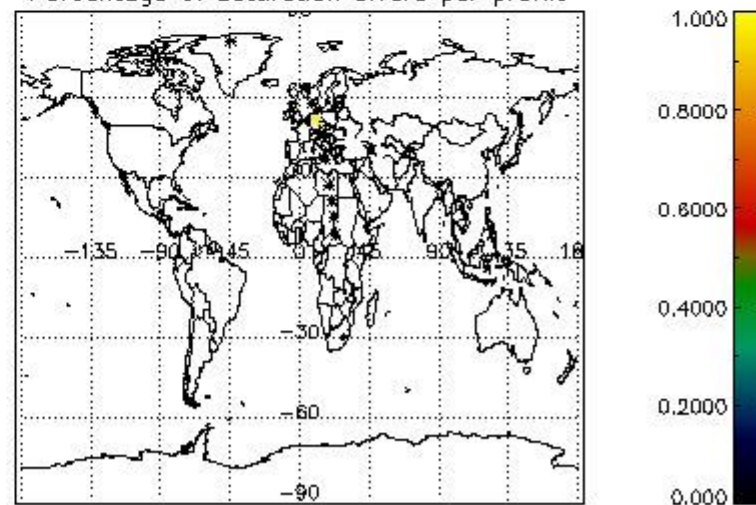
Percentage of datation errors per profile



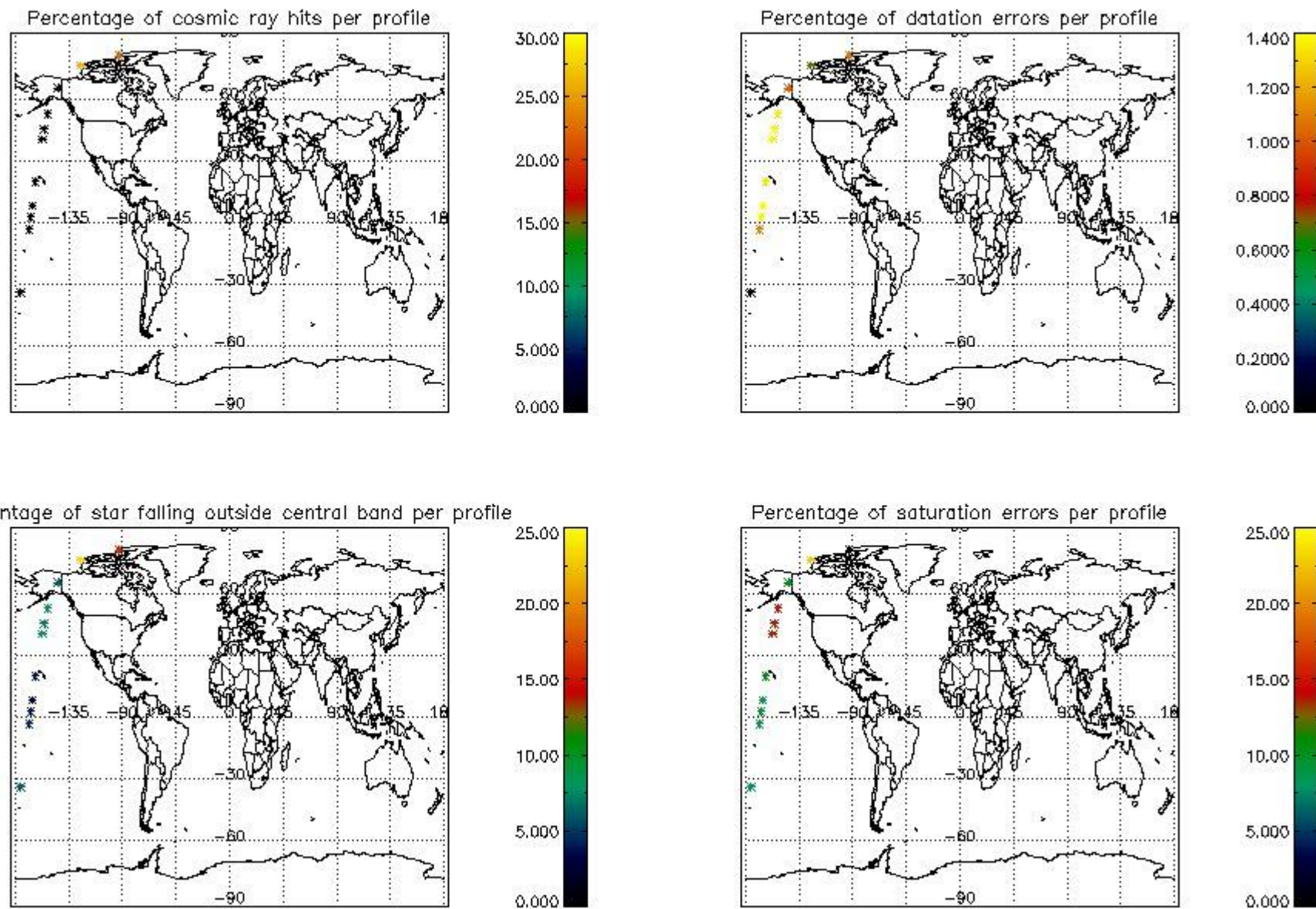
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



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

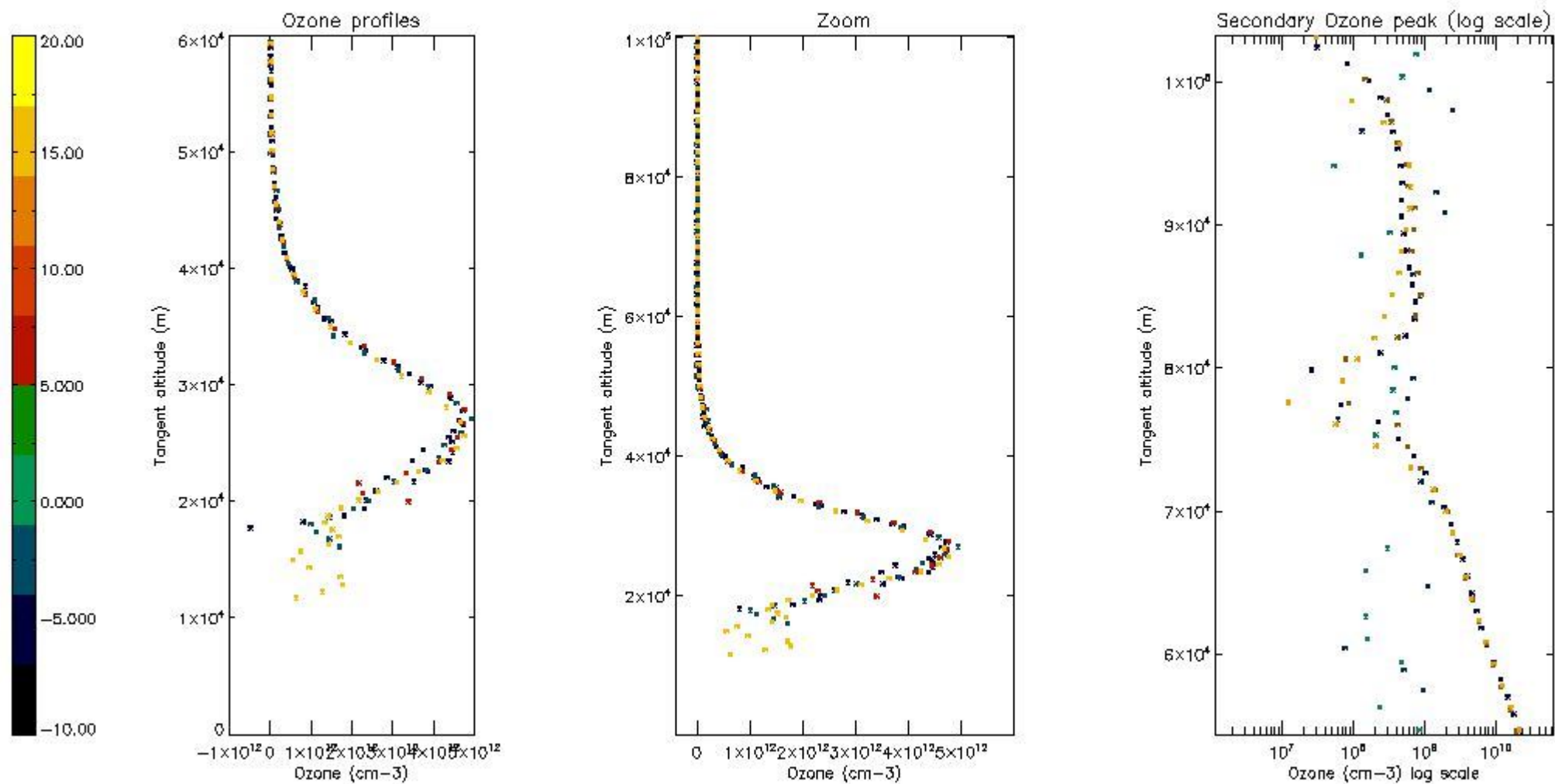
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	14

STD < 10	11
STD < 5	7

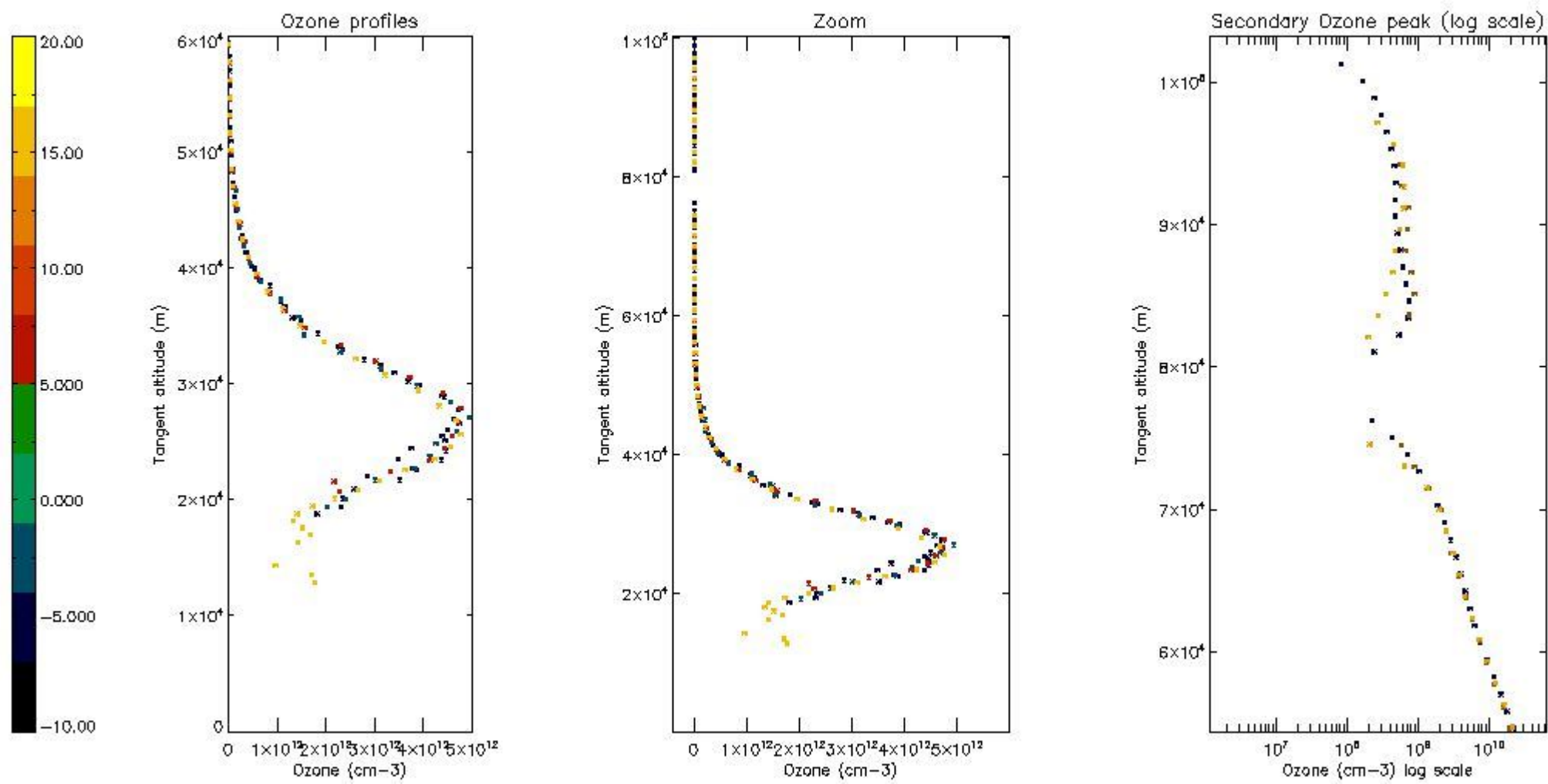
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



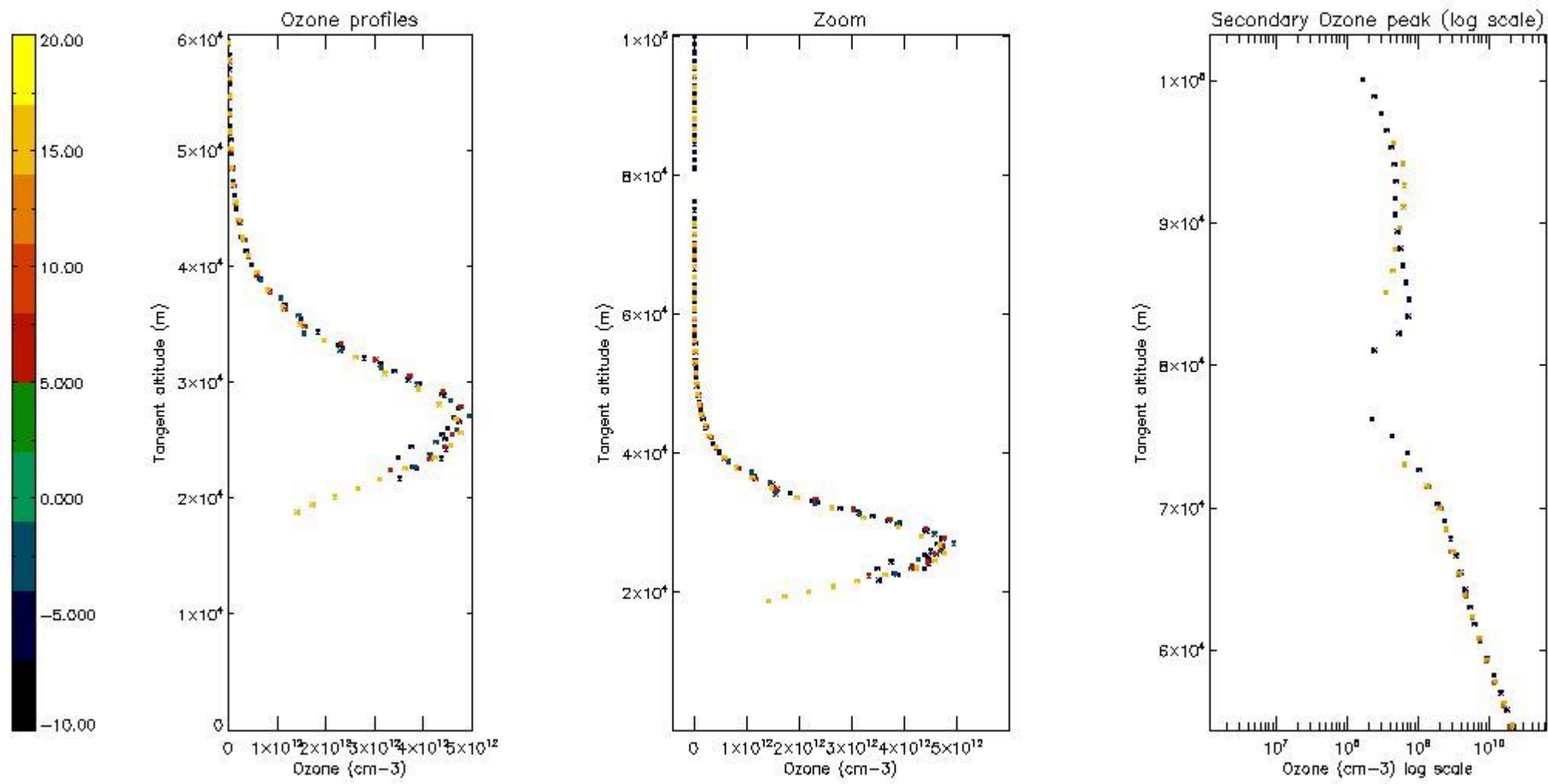
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



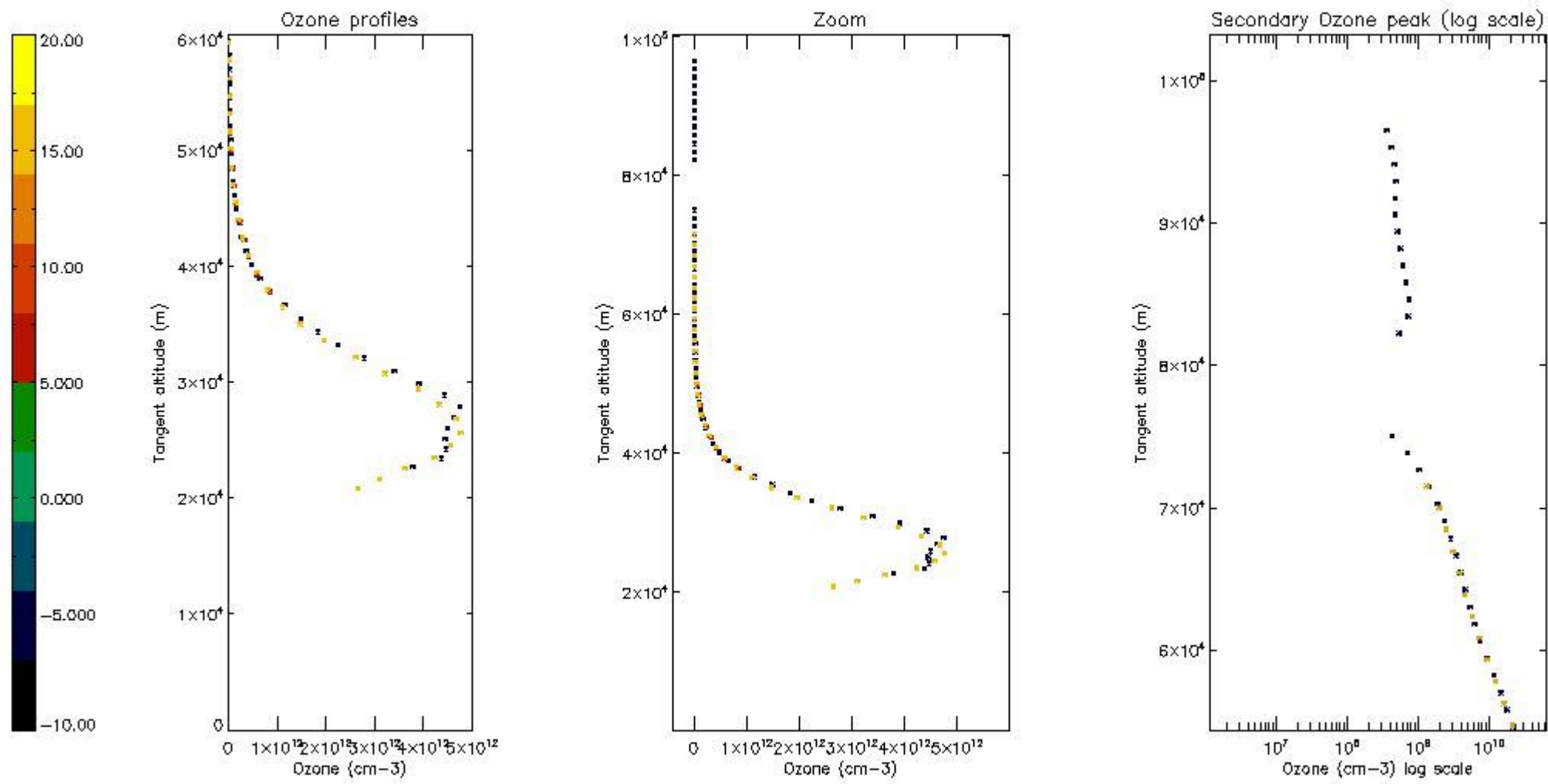
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



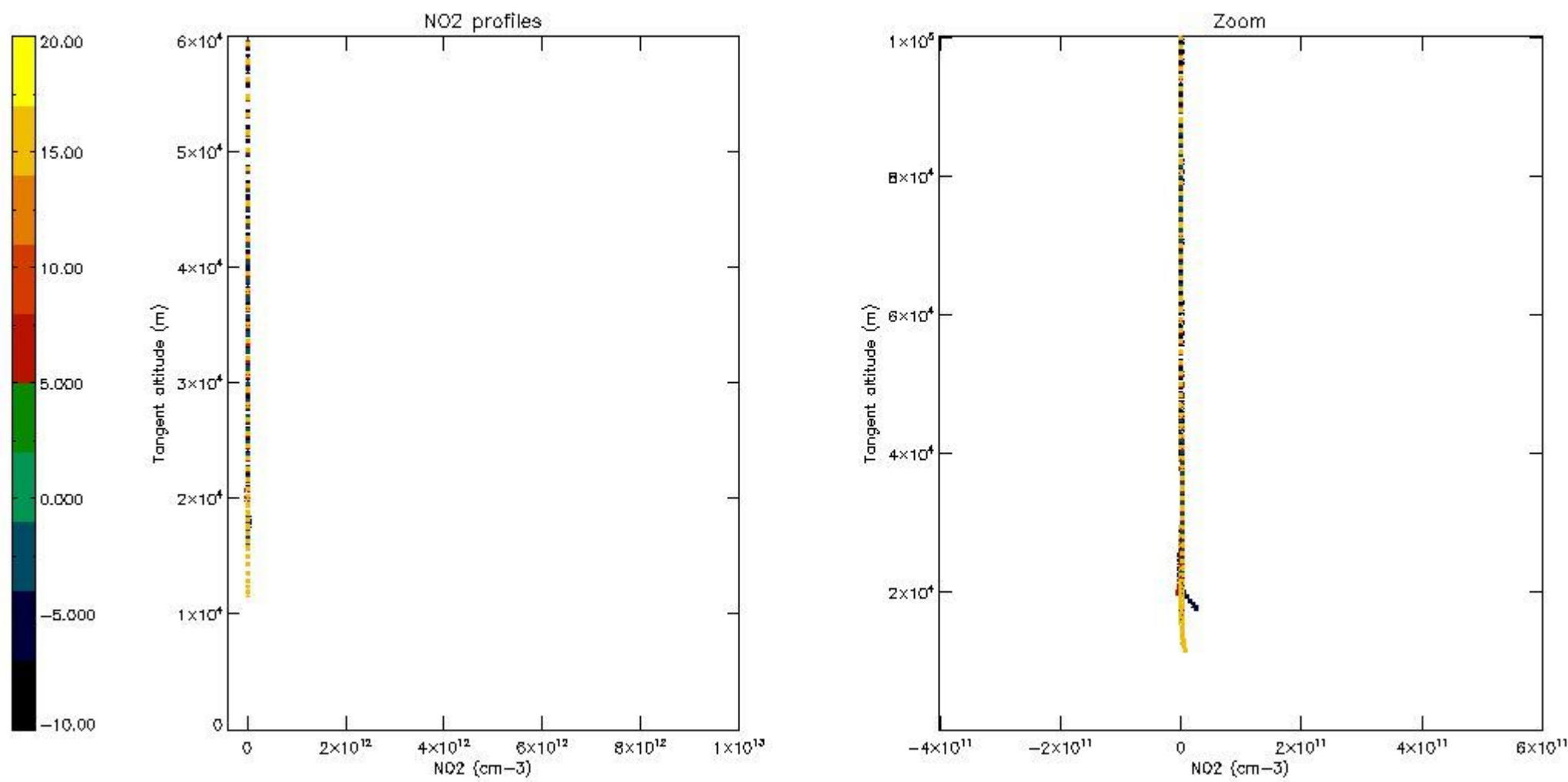
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



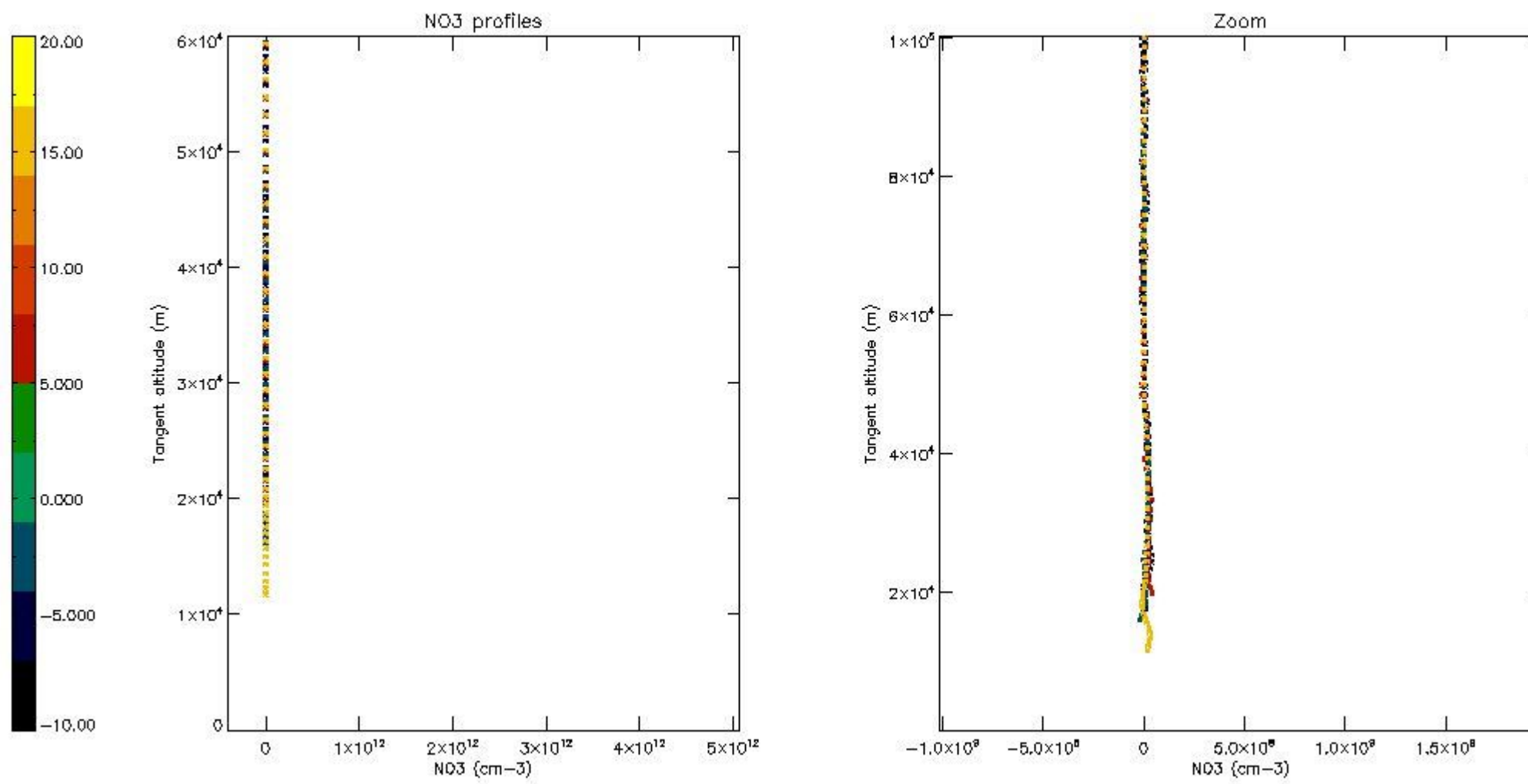
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



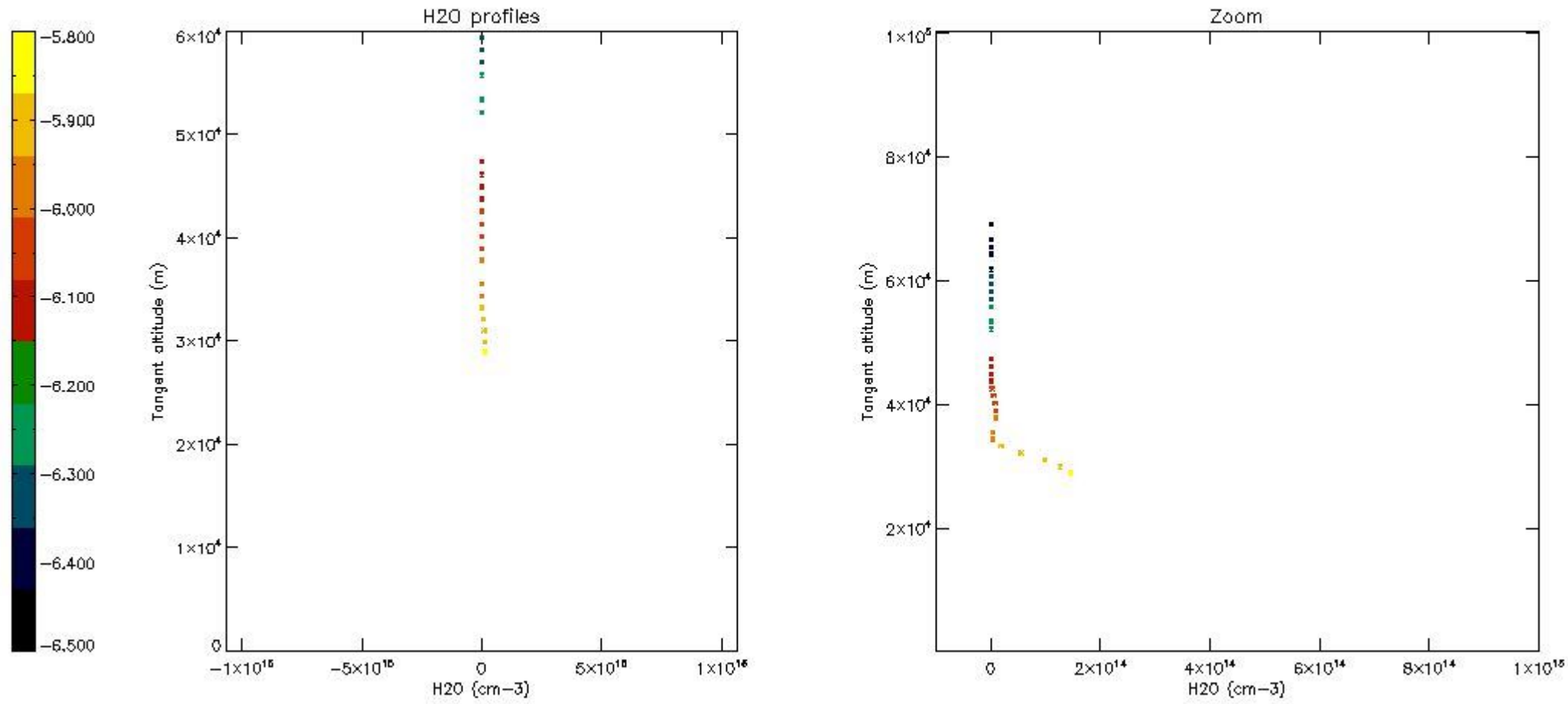
5.7 Plot NO3 profiles for all STD (dark without errors)

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_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	24-MAR-2003 20:21:19
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	24-MAR-2003 20:21:19
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	24-MAR-2003 20:21:19

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

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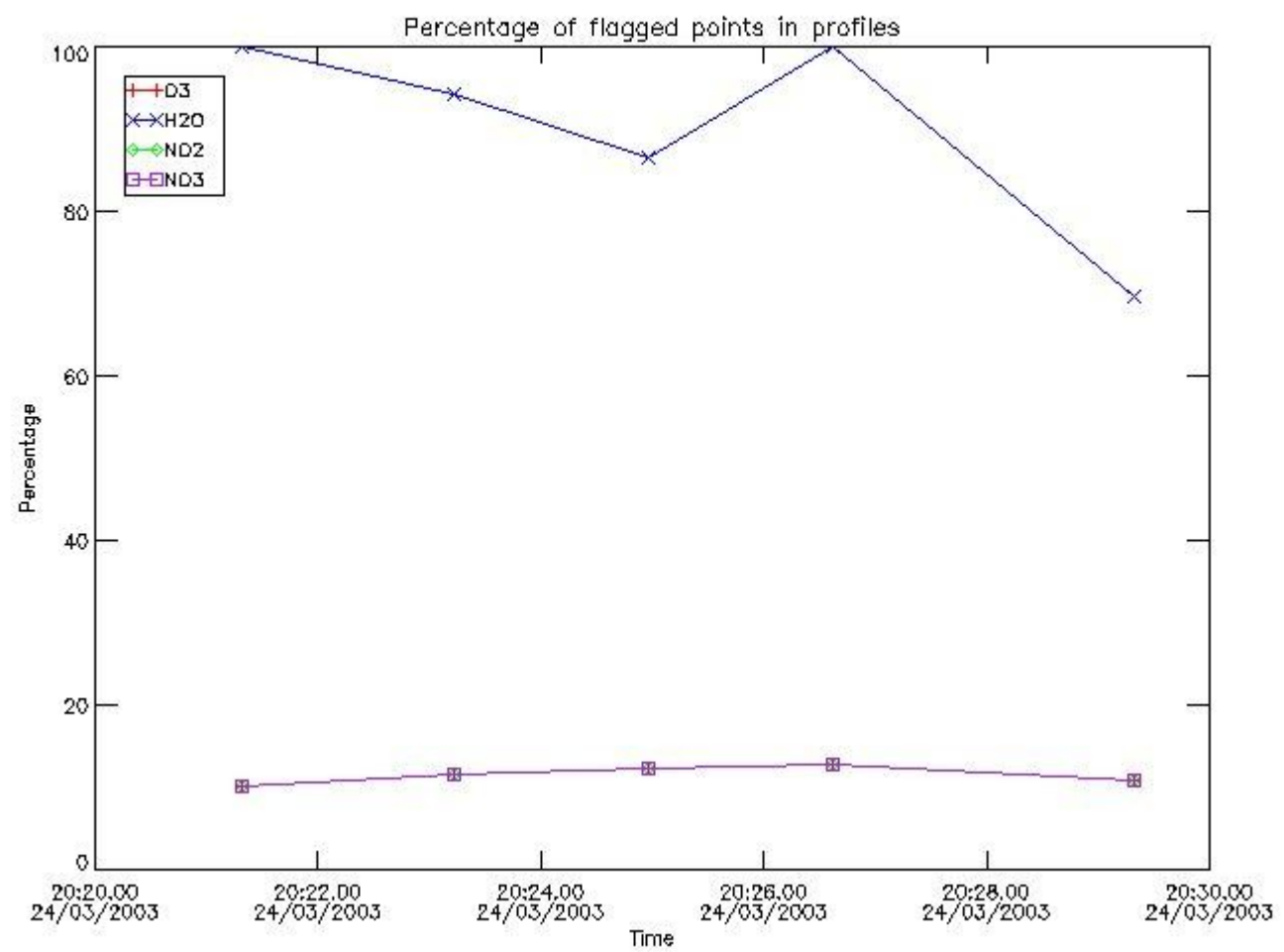
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3. Quality information per product

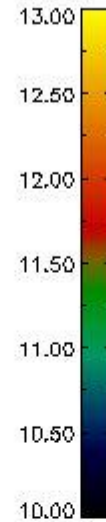
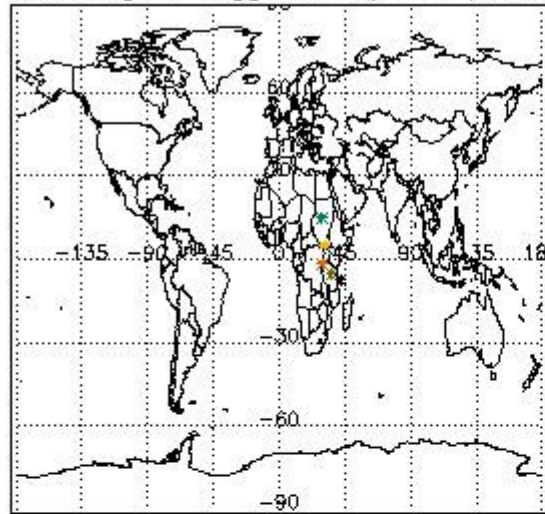
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3.1 Plot quality information per product (time dependant)

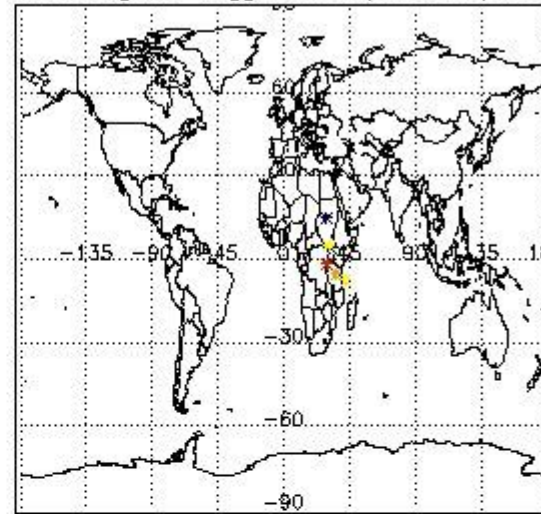


3.2 Plot quality information per product (world map)

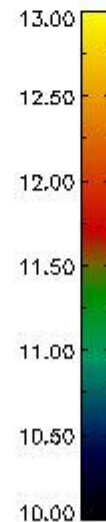
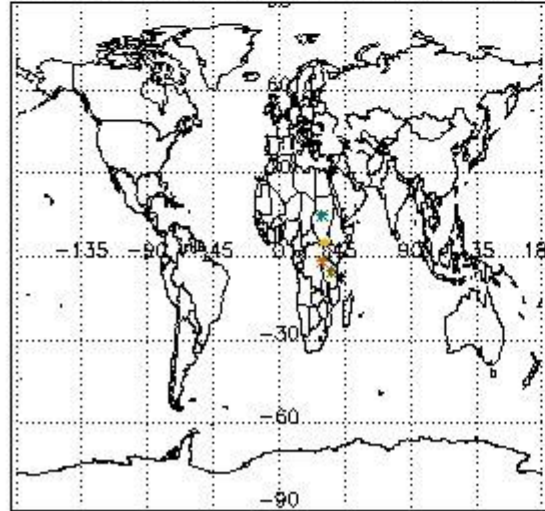
Percentage of flagged data per O3 profile



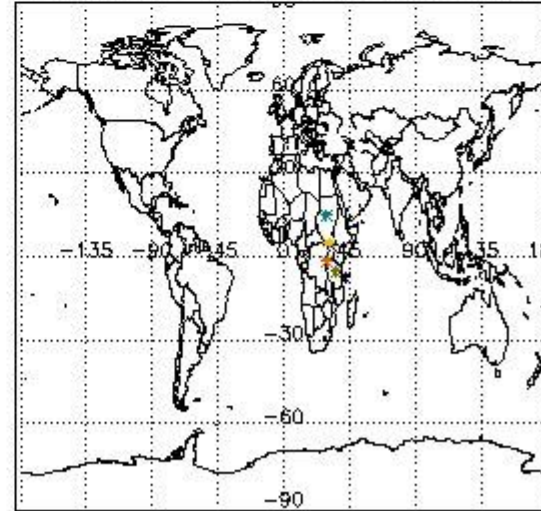
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

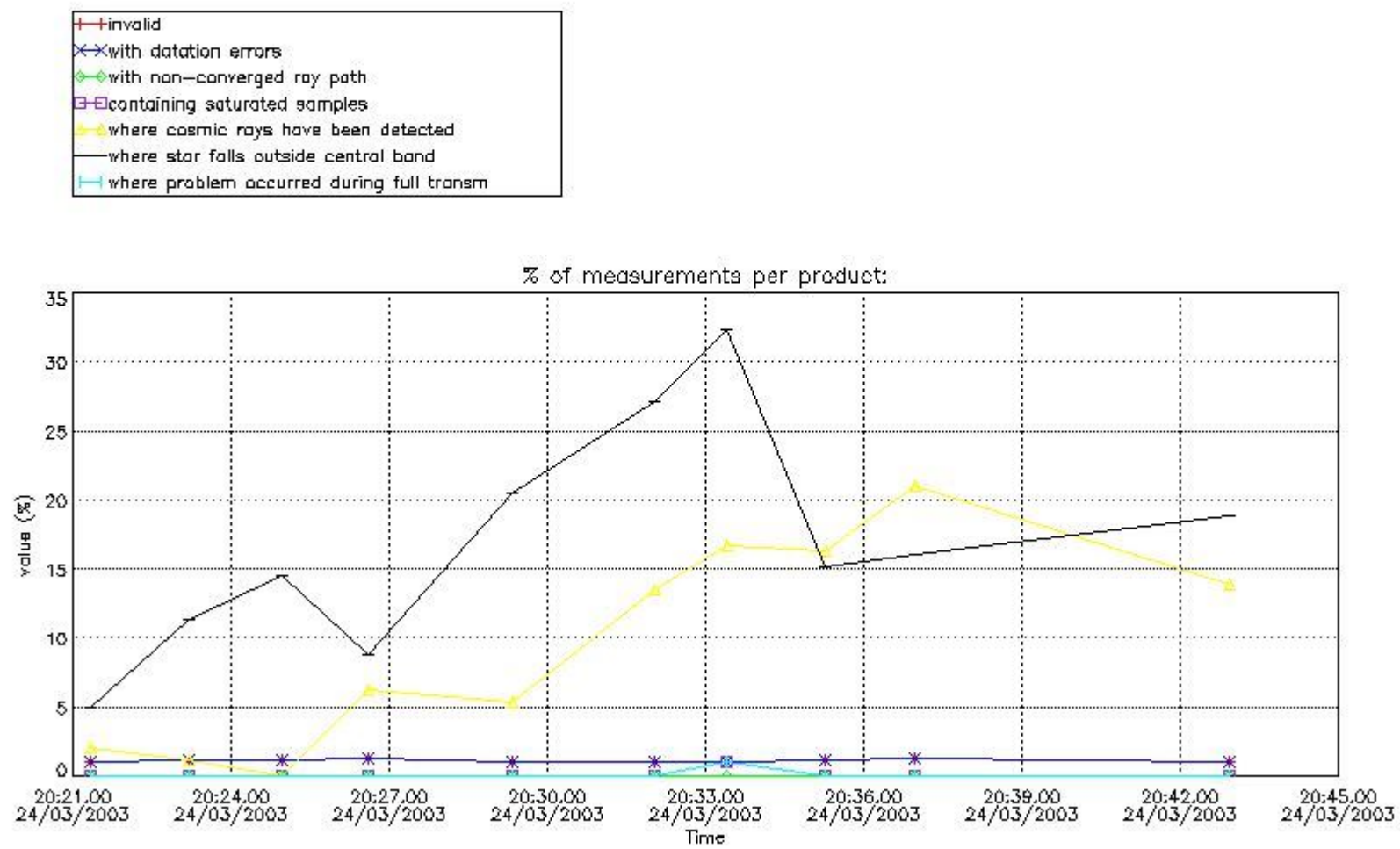


4. Level 1 quality information per product

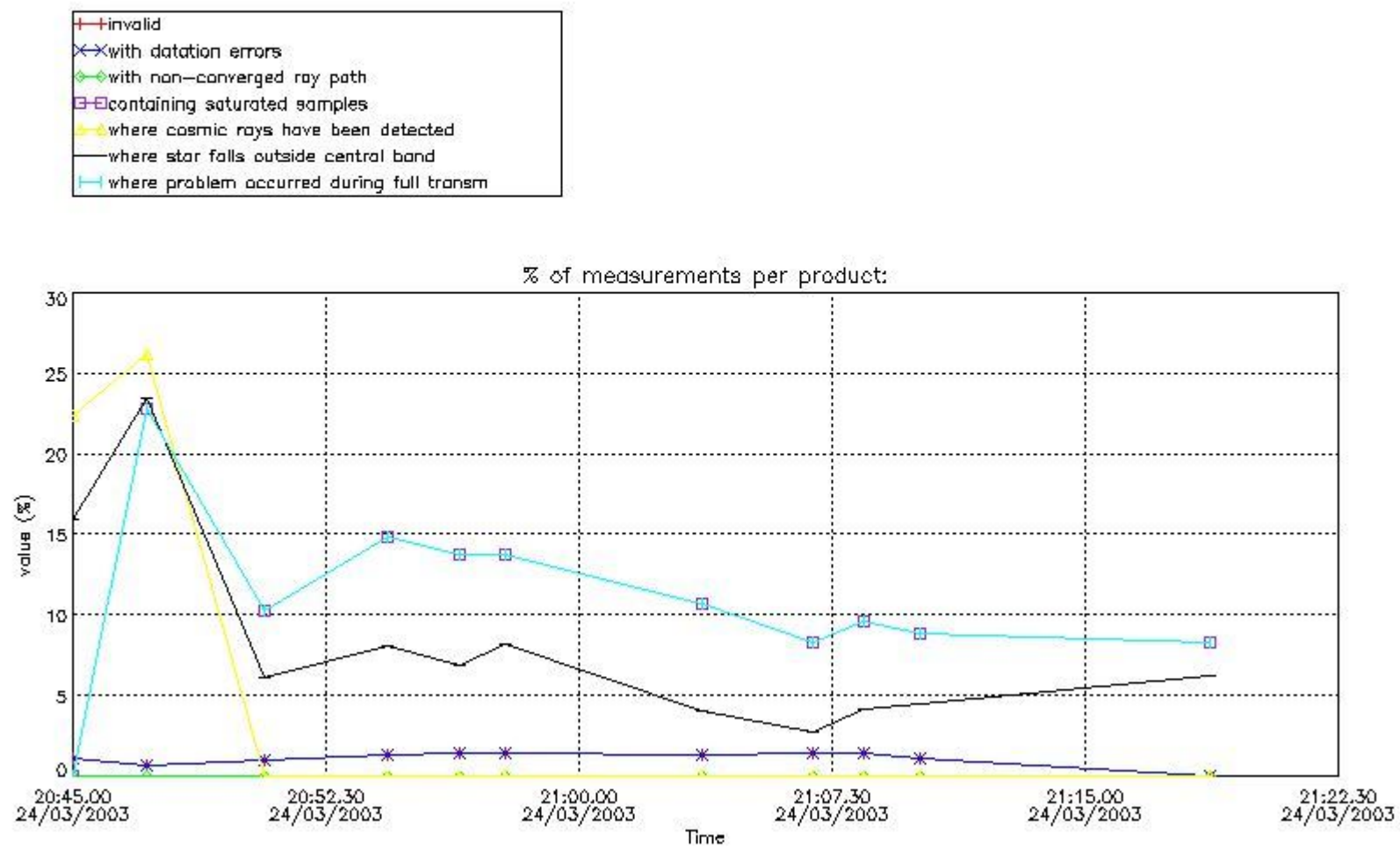
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



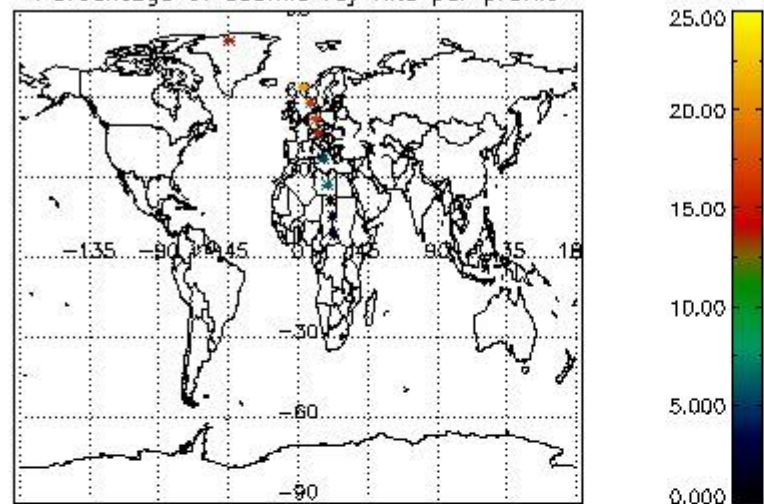
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



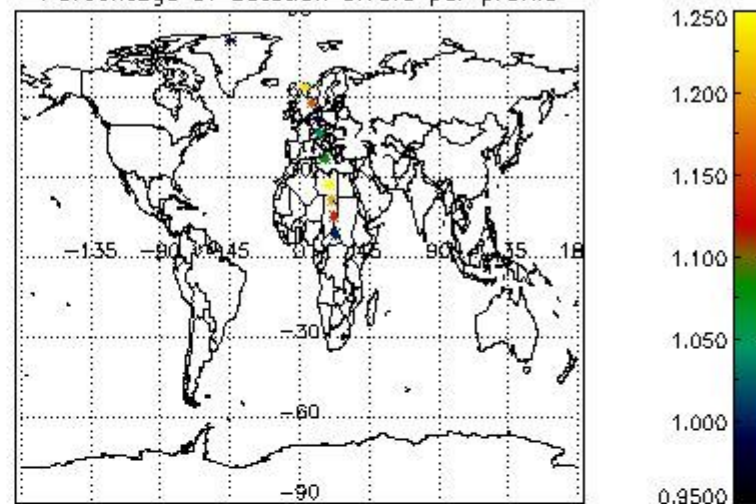
4.2 Plot quality information per product coming from level 1b processing (world map)

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

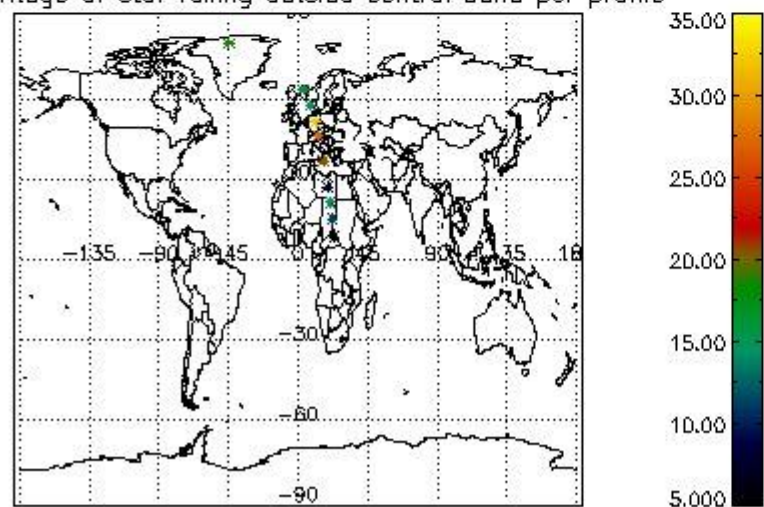
Percentage of cosmic ray hits per profile



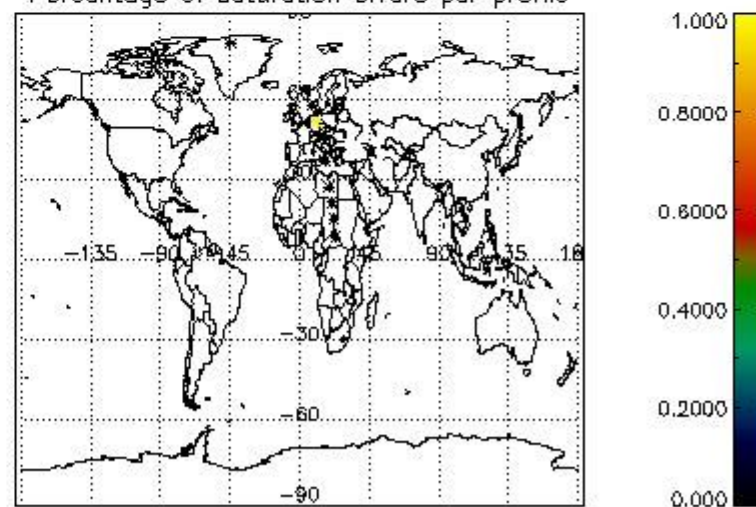
Percentage of datation errors per profile



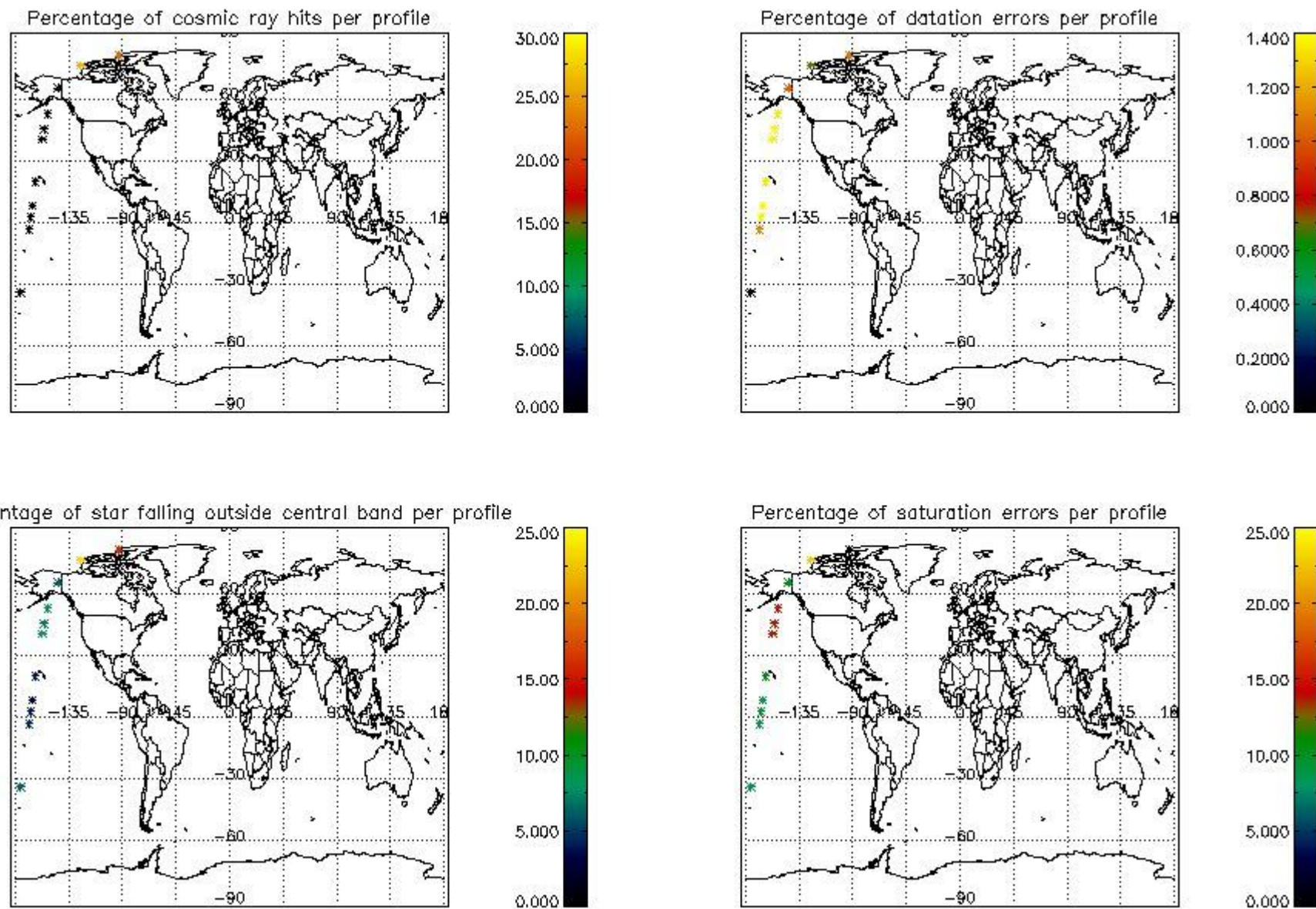
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



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

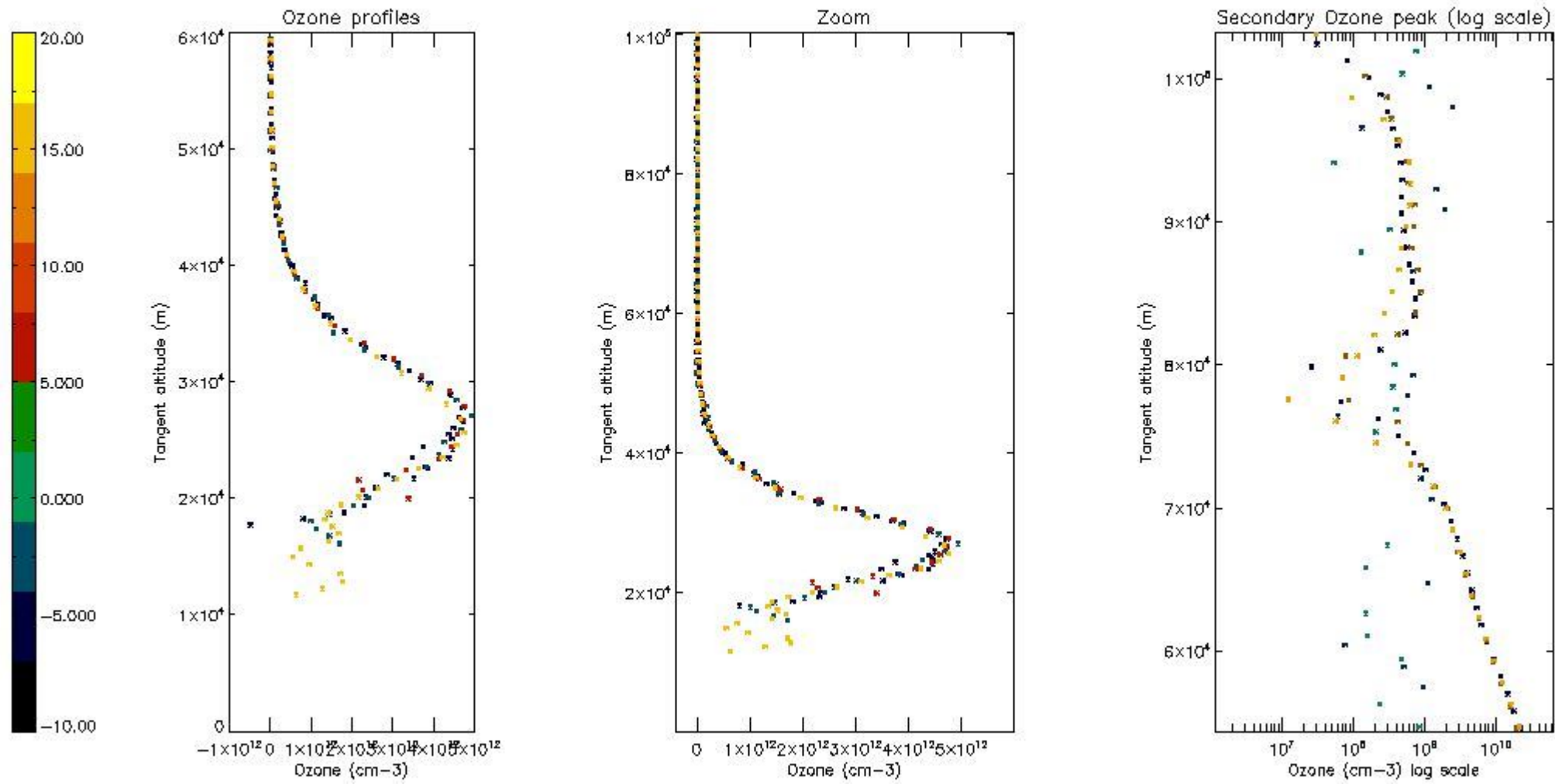
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	14

STD < 10	11
STD < 5	7

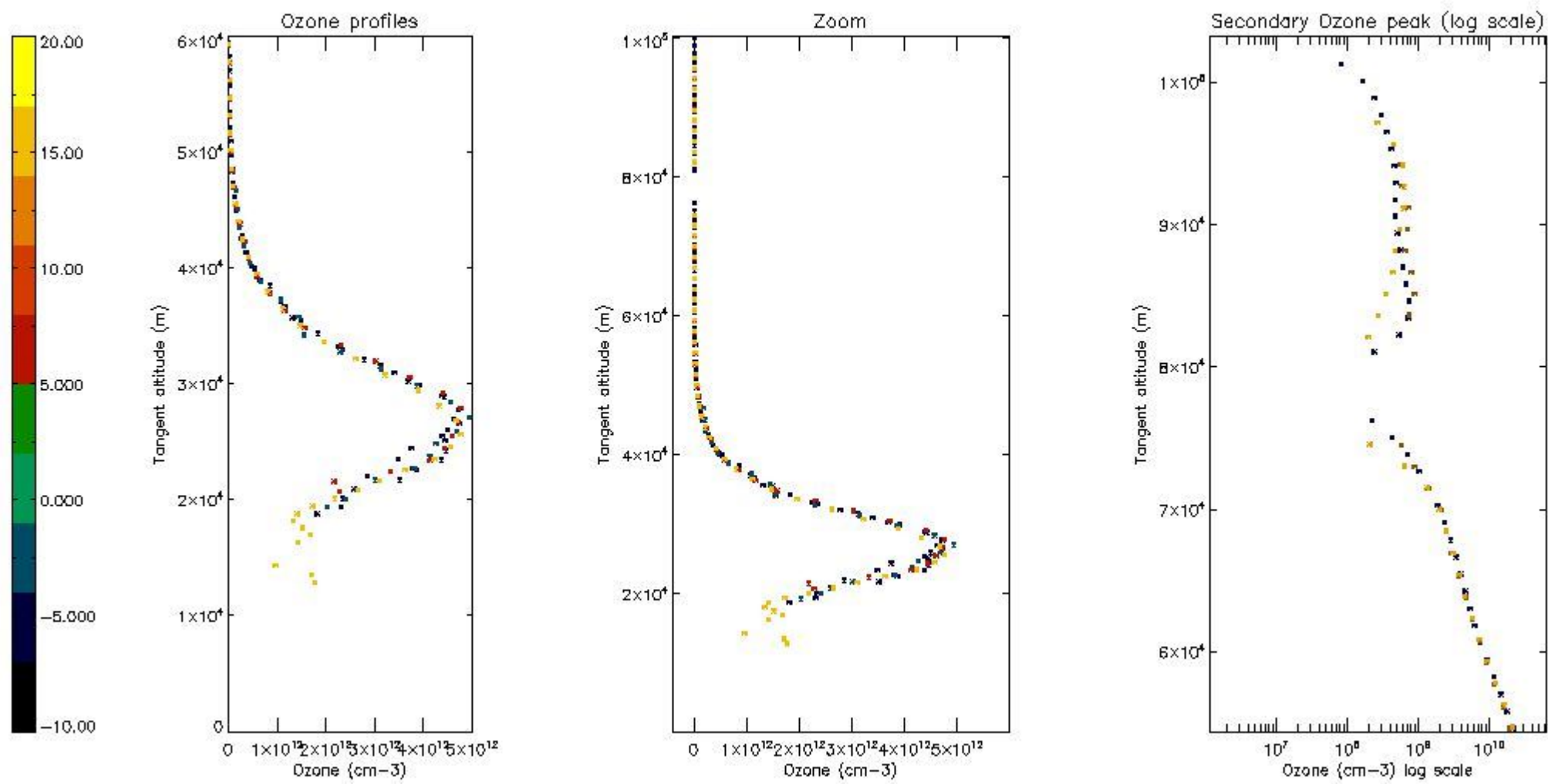
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



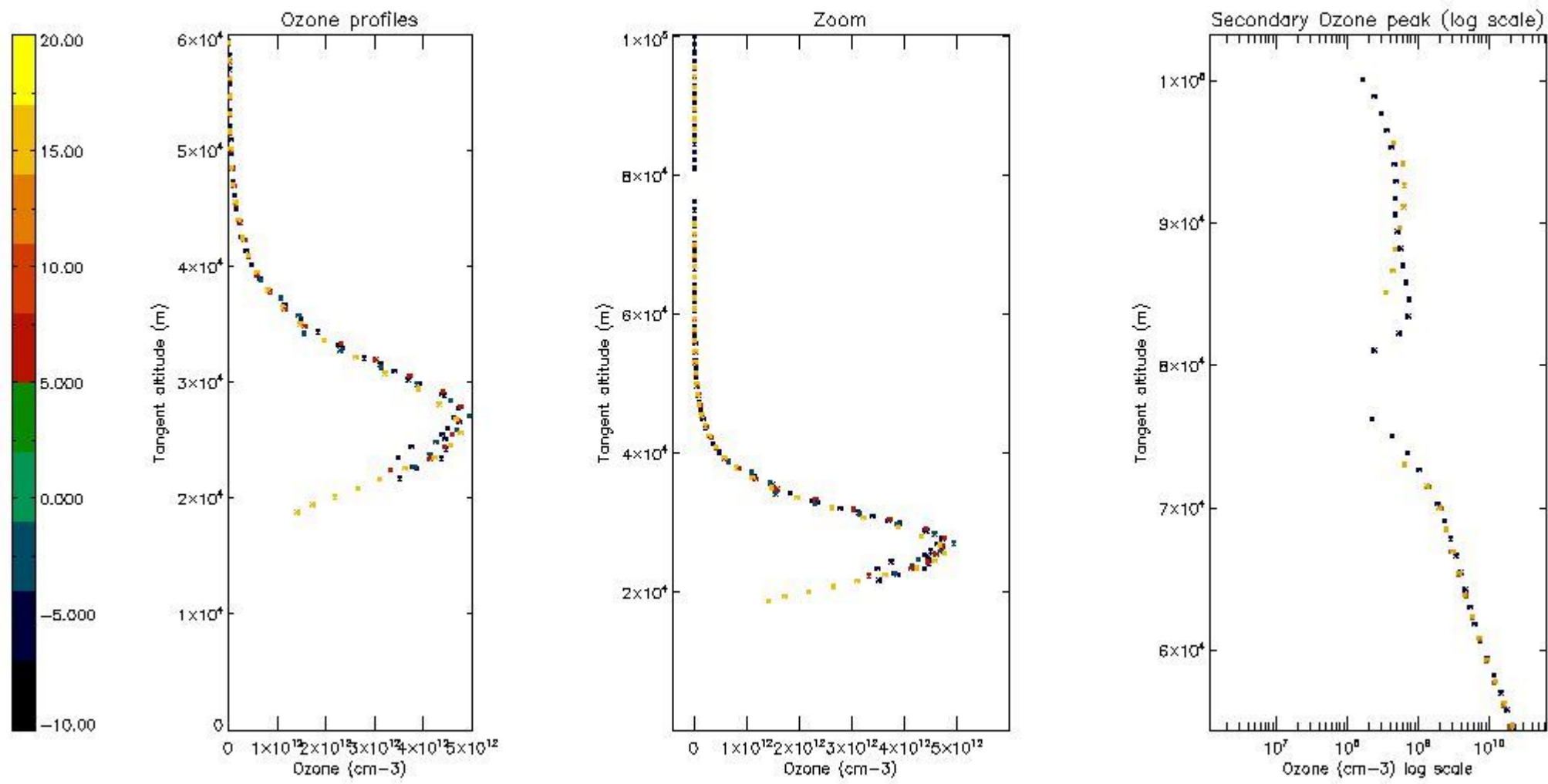
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



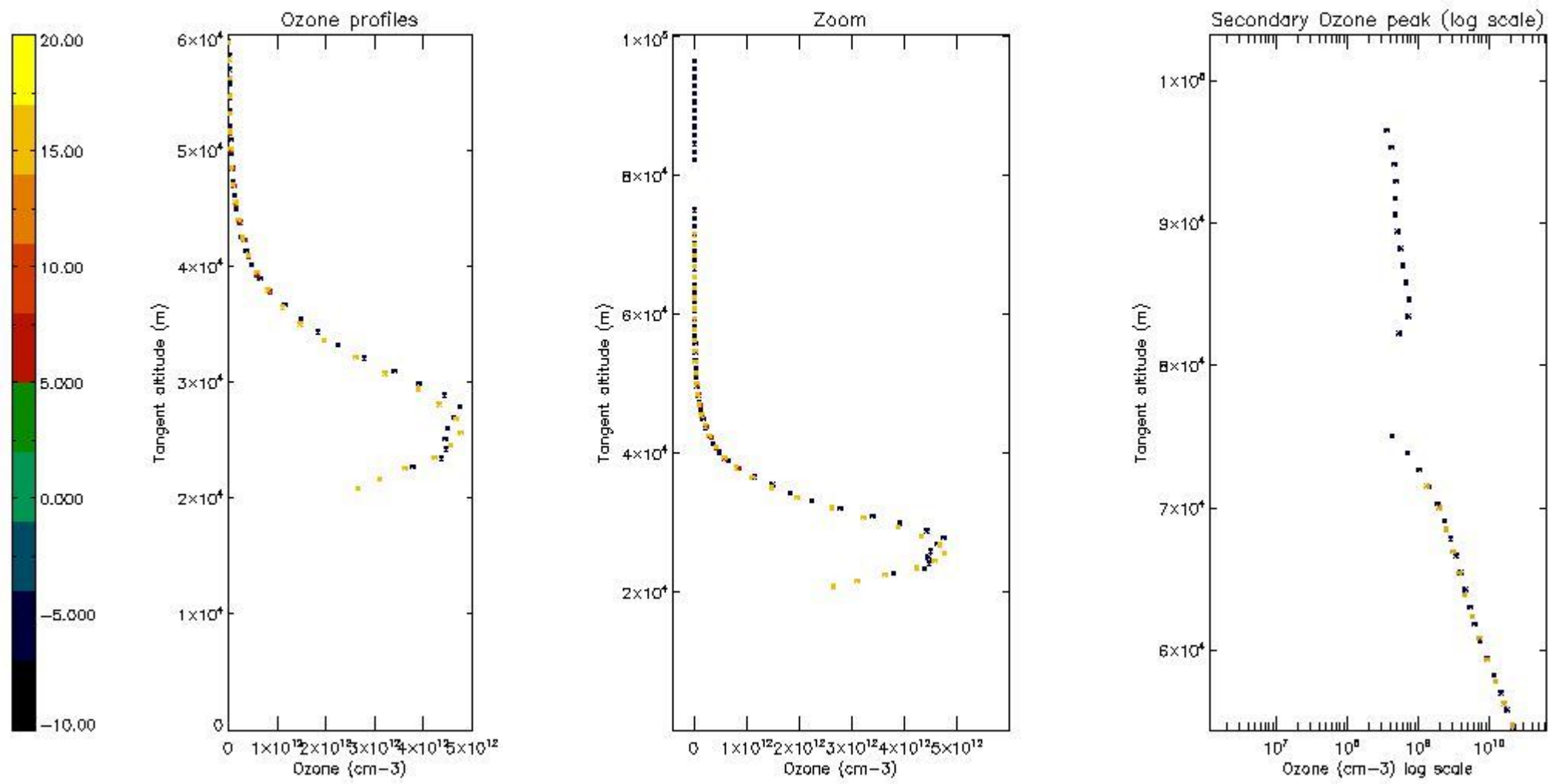
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



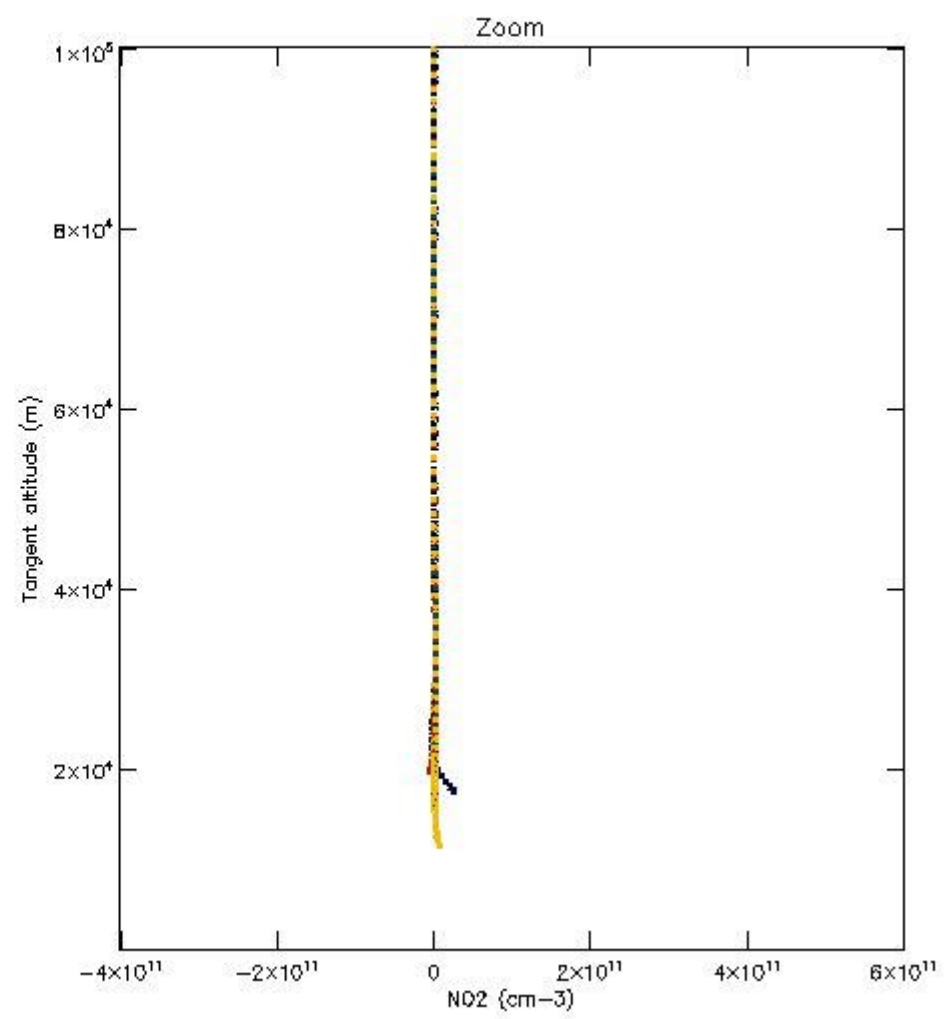
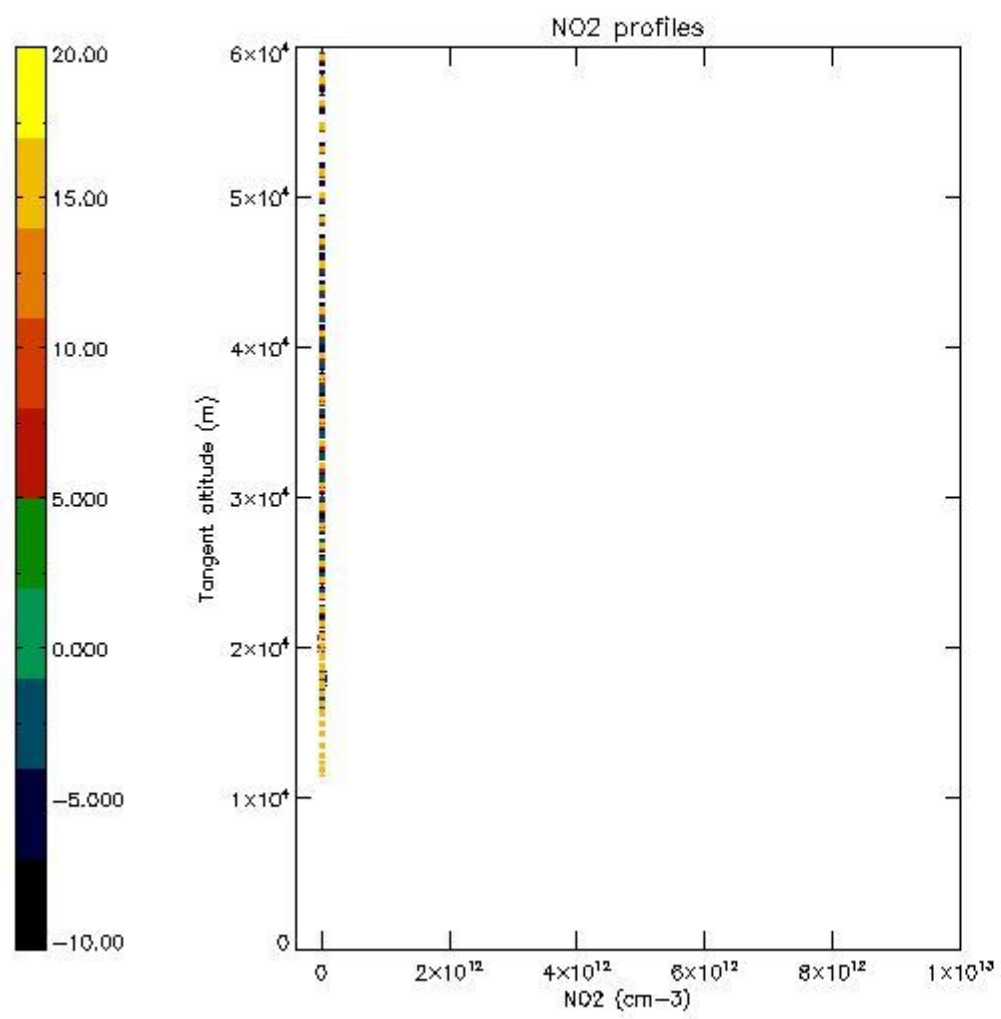
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



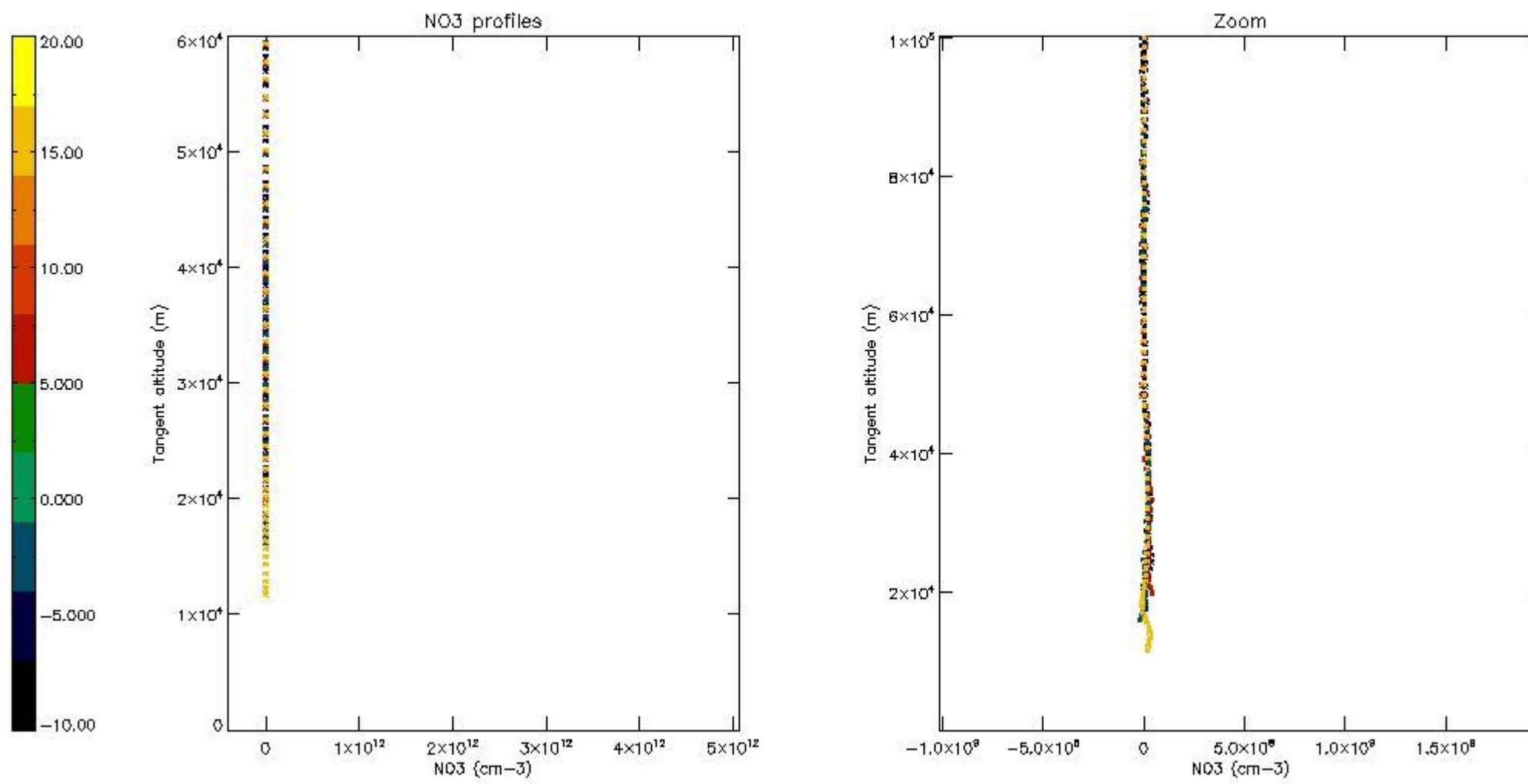
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



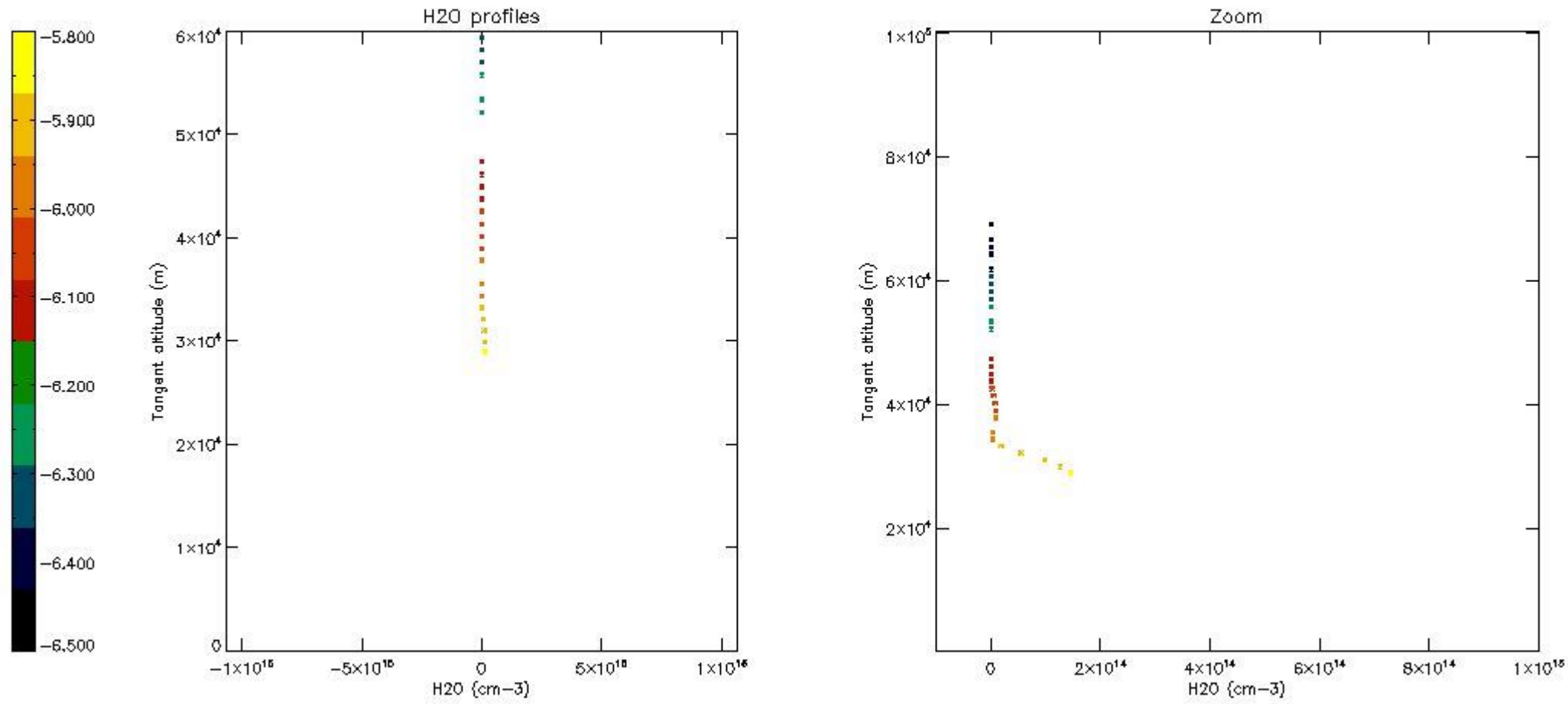
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

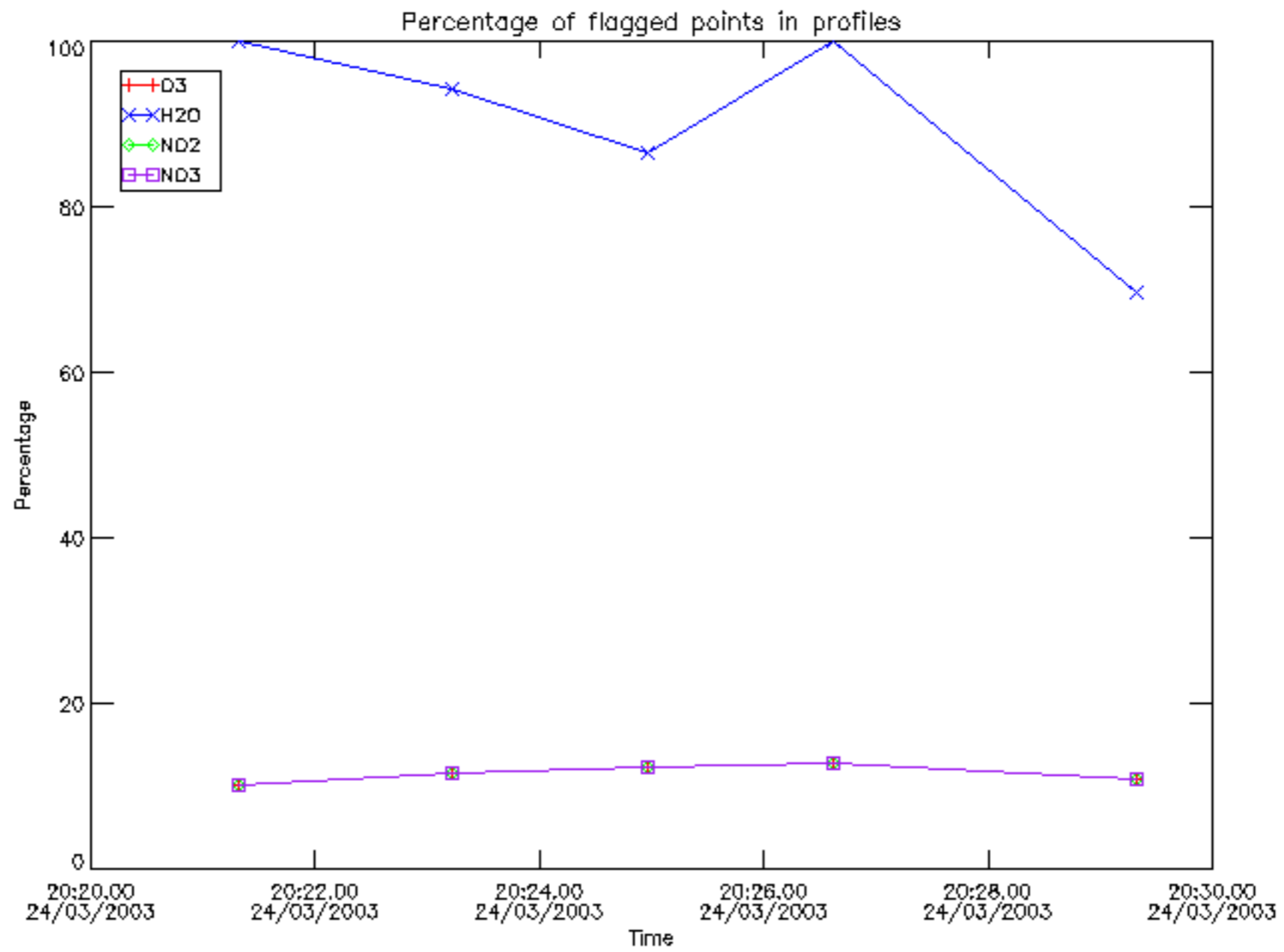
The colorbar represents the latitude.



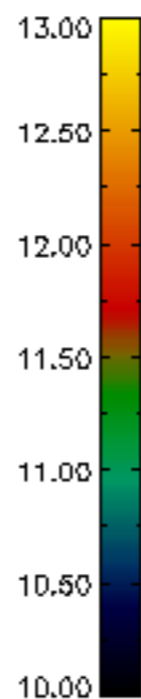
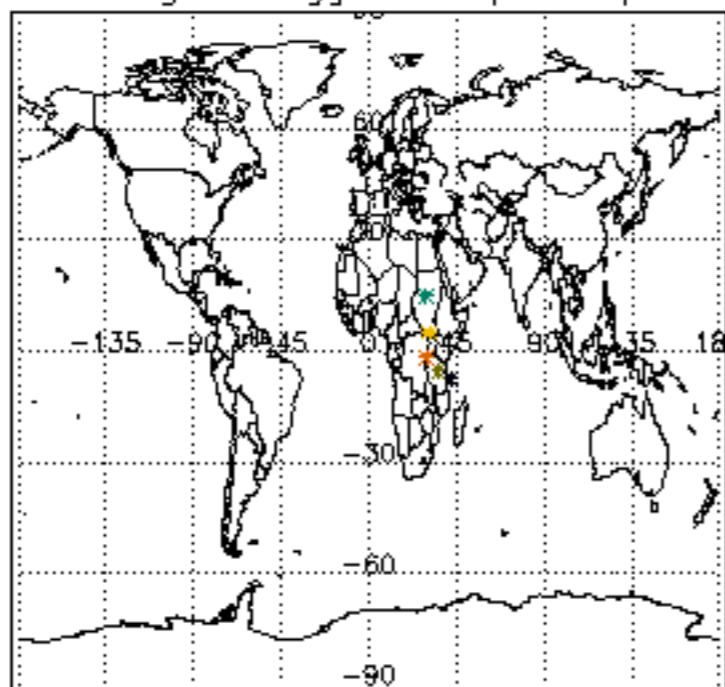
6. Auxiliary Data Files used for the production reported in section 2

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.

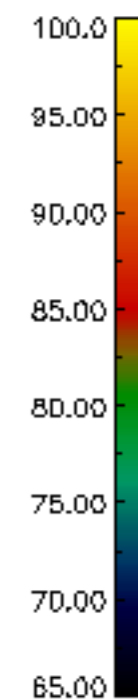
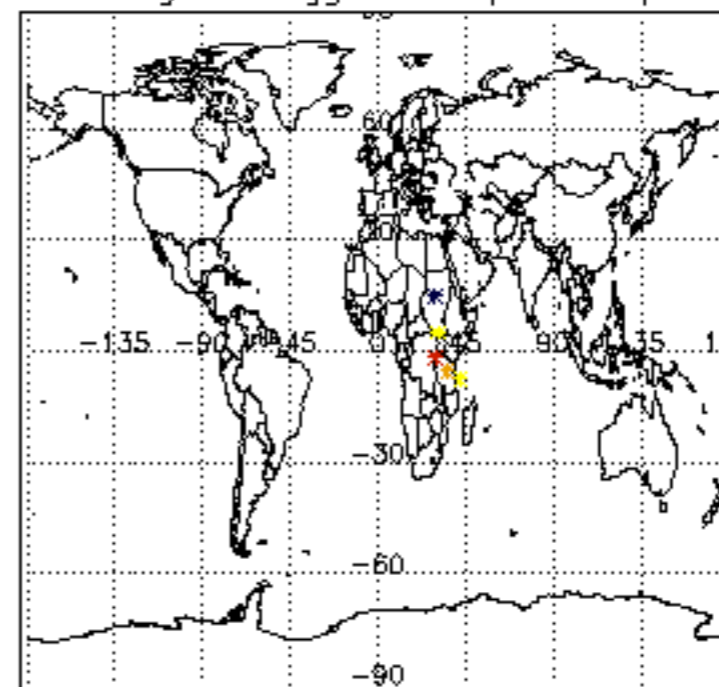
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	24-MAR-2003 20:21:19
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	24-MAR-2003 20:21:19
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	24-MAR-2003 20:21:19



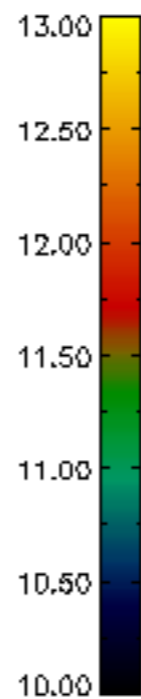
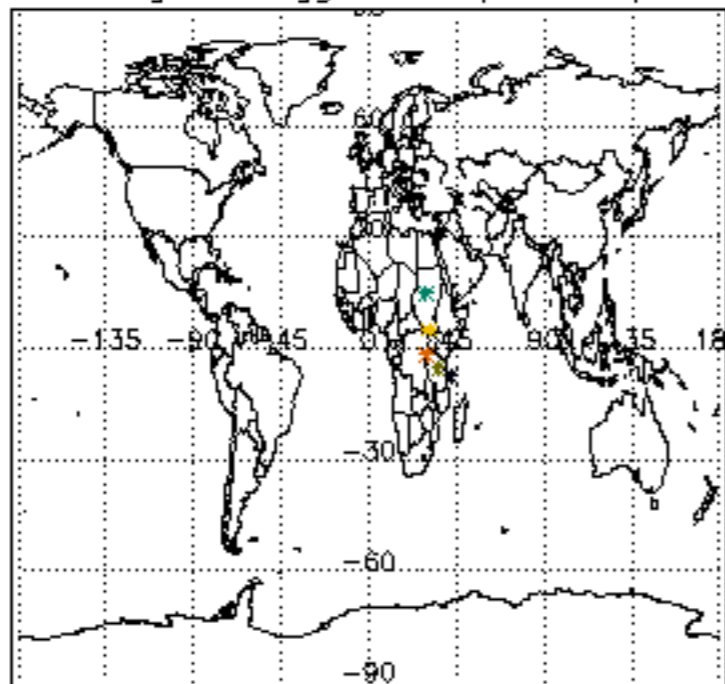
Percentage of flagged data per D3 profile



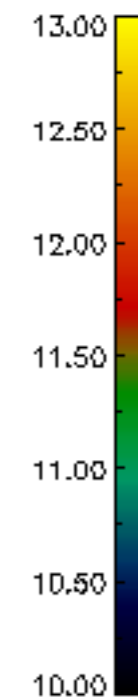
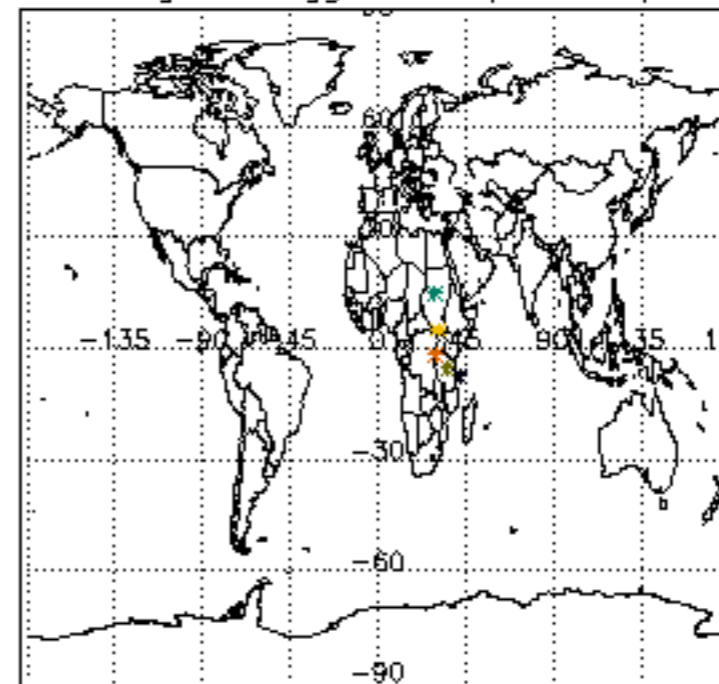
Percentage of flagged data per H2O profile

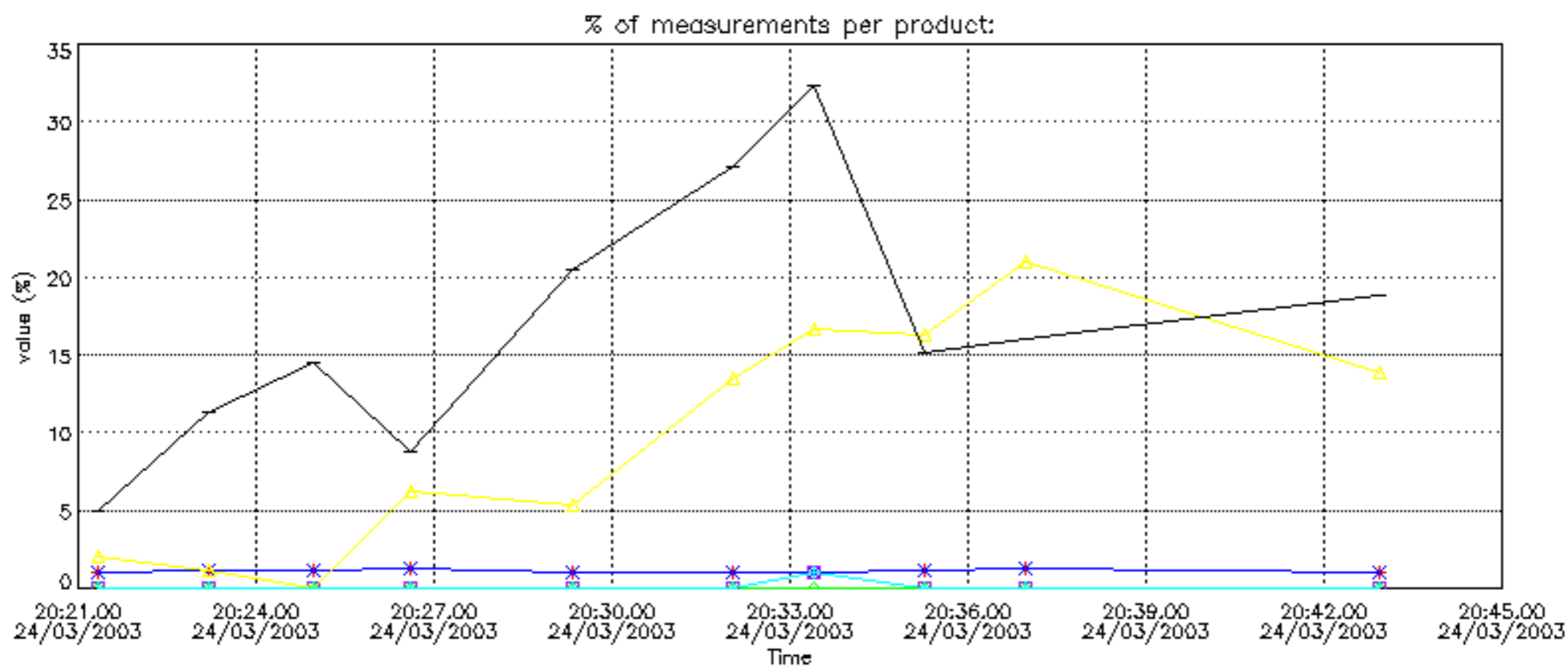


Percentage of flagged data per NO2 profile

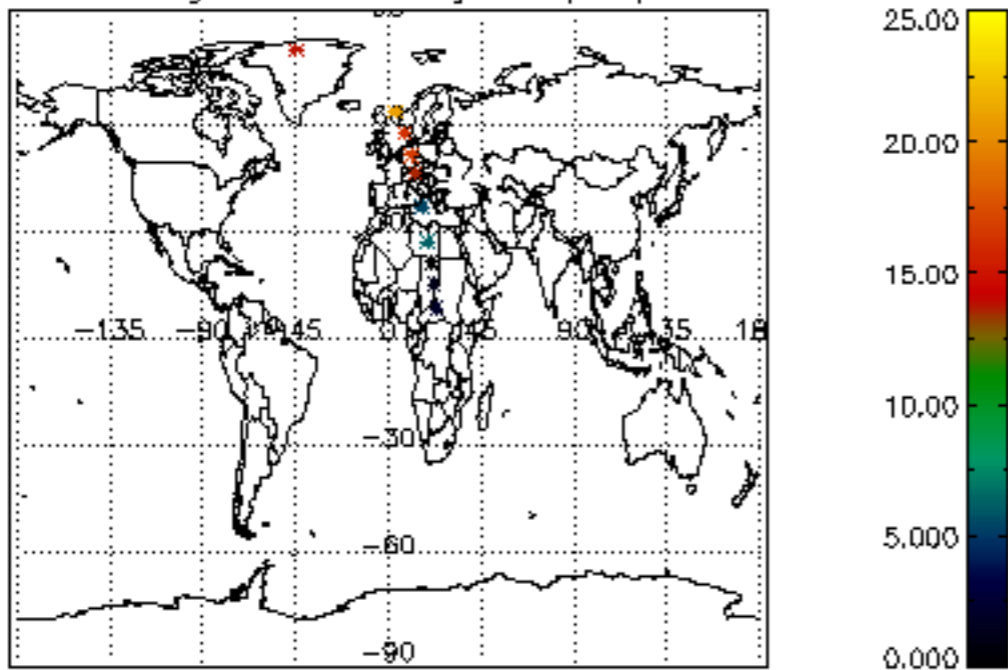


Percentage of flagged data per NO3 profile

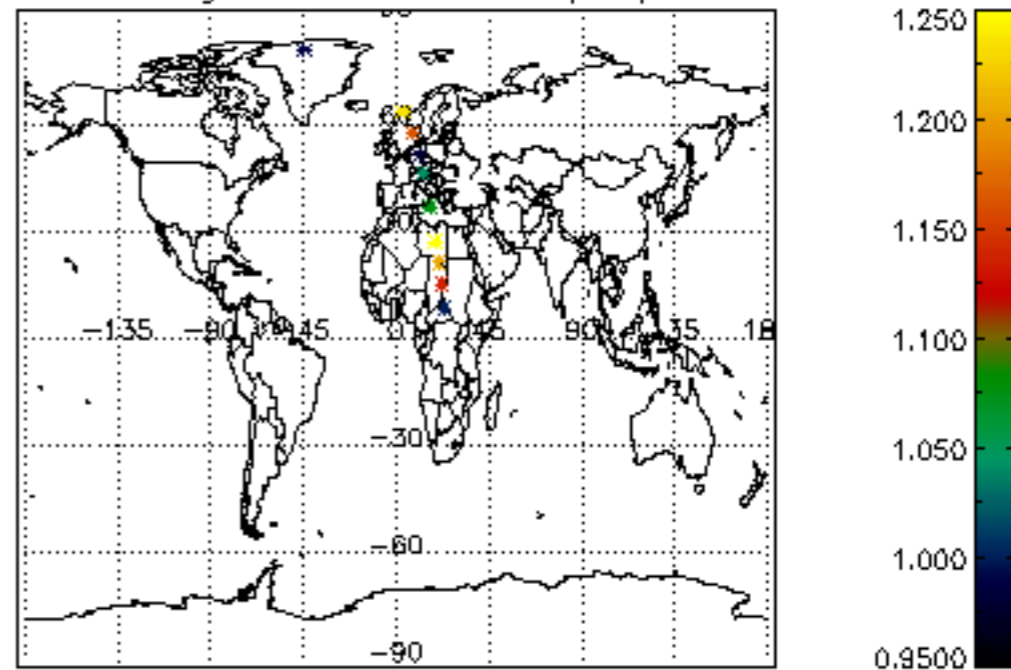




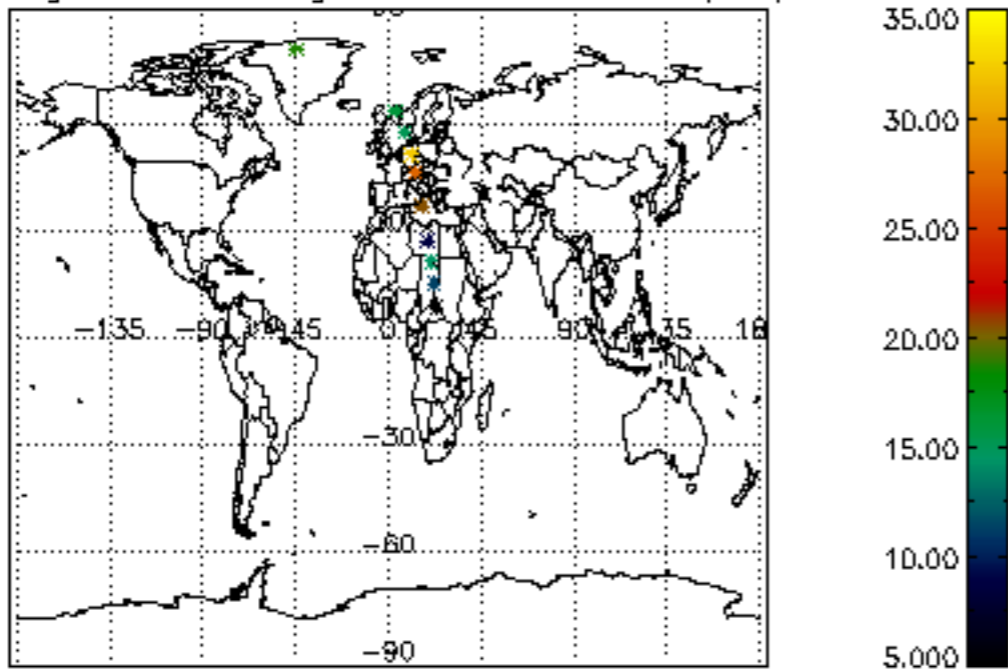
Percentage of cosmic ray hits per profile



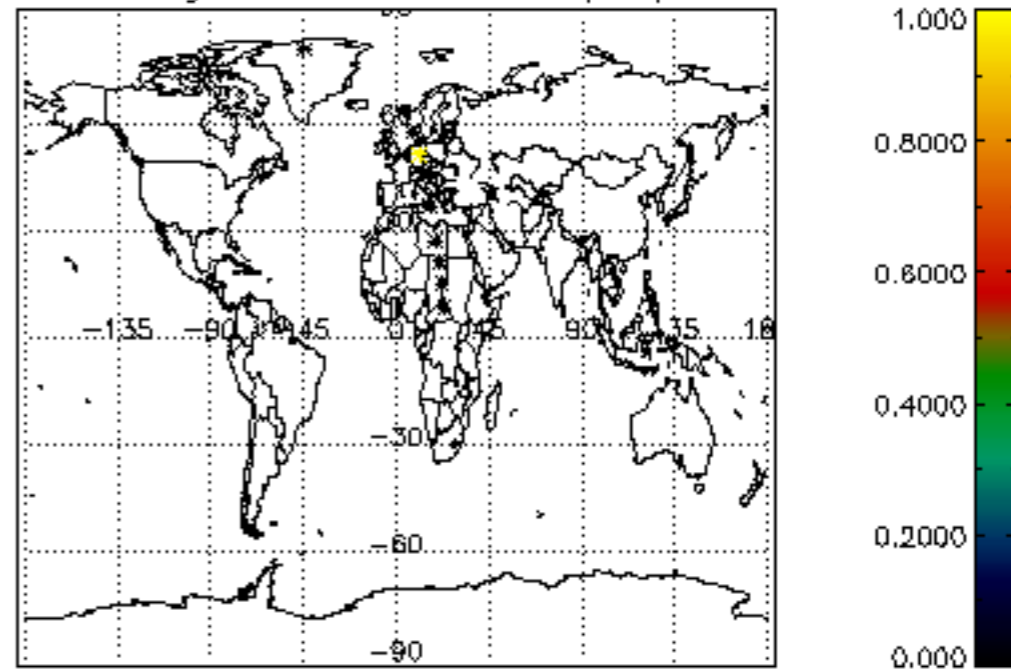
Percentage of datation errors per profile



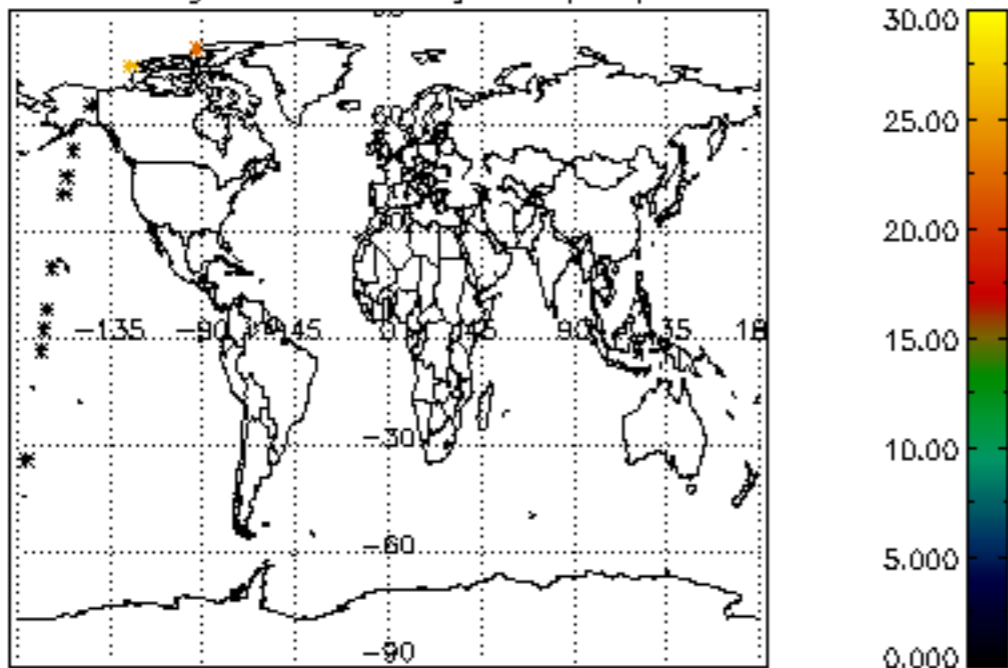
Percentage of star falling outside central band per profile



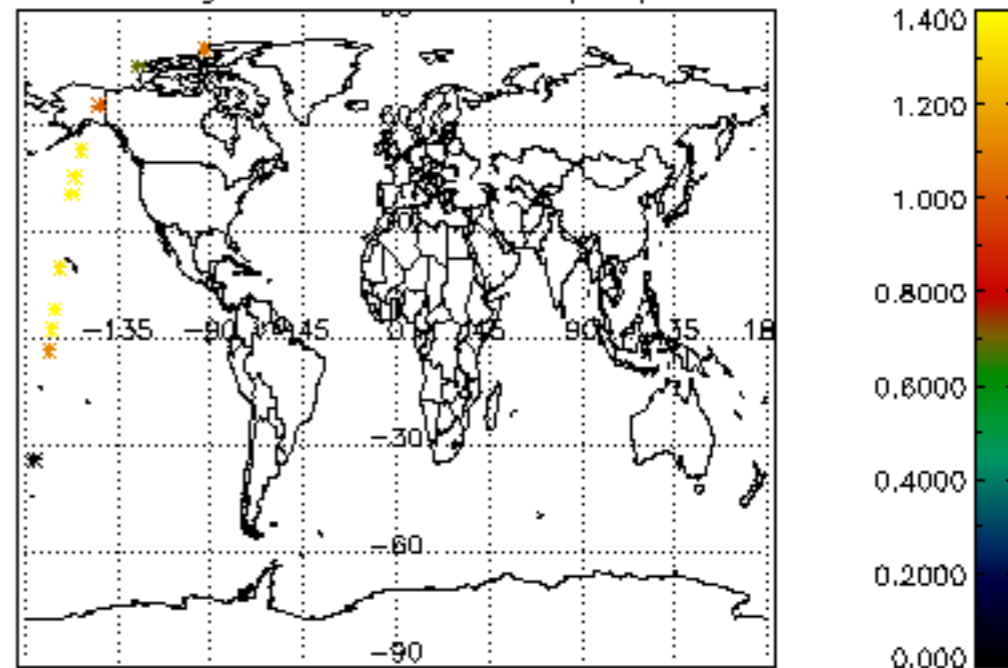
Percentage of saturation errors per profile



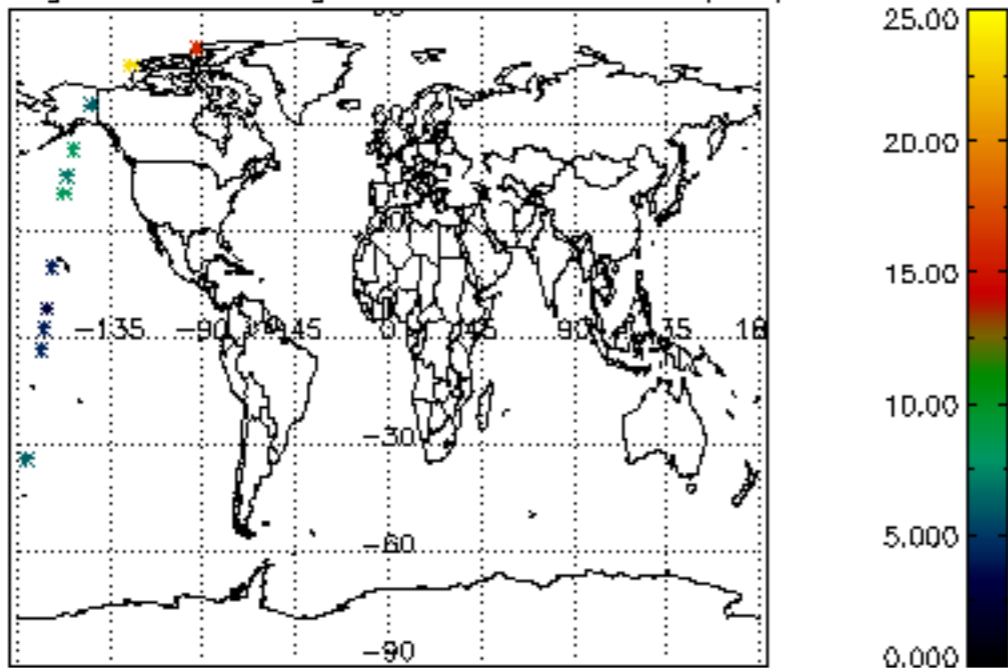
Percentage of cosmic ray hits per profile



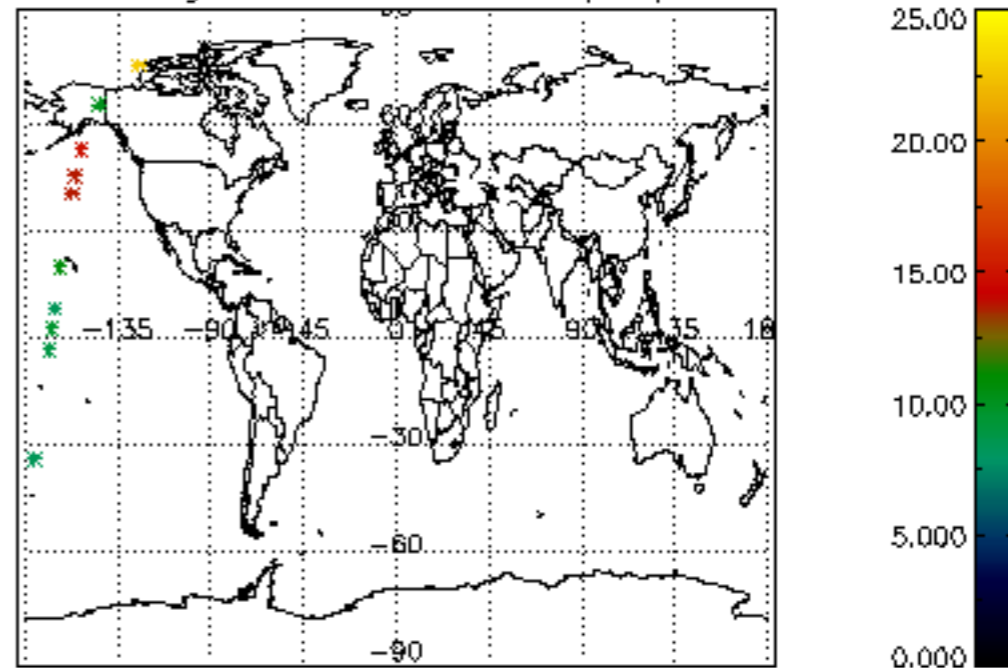
Percentage of datation errors per profile

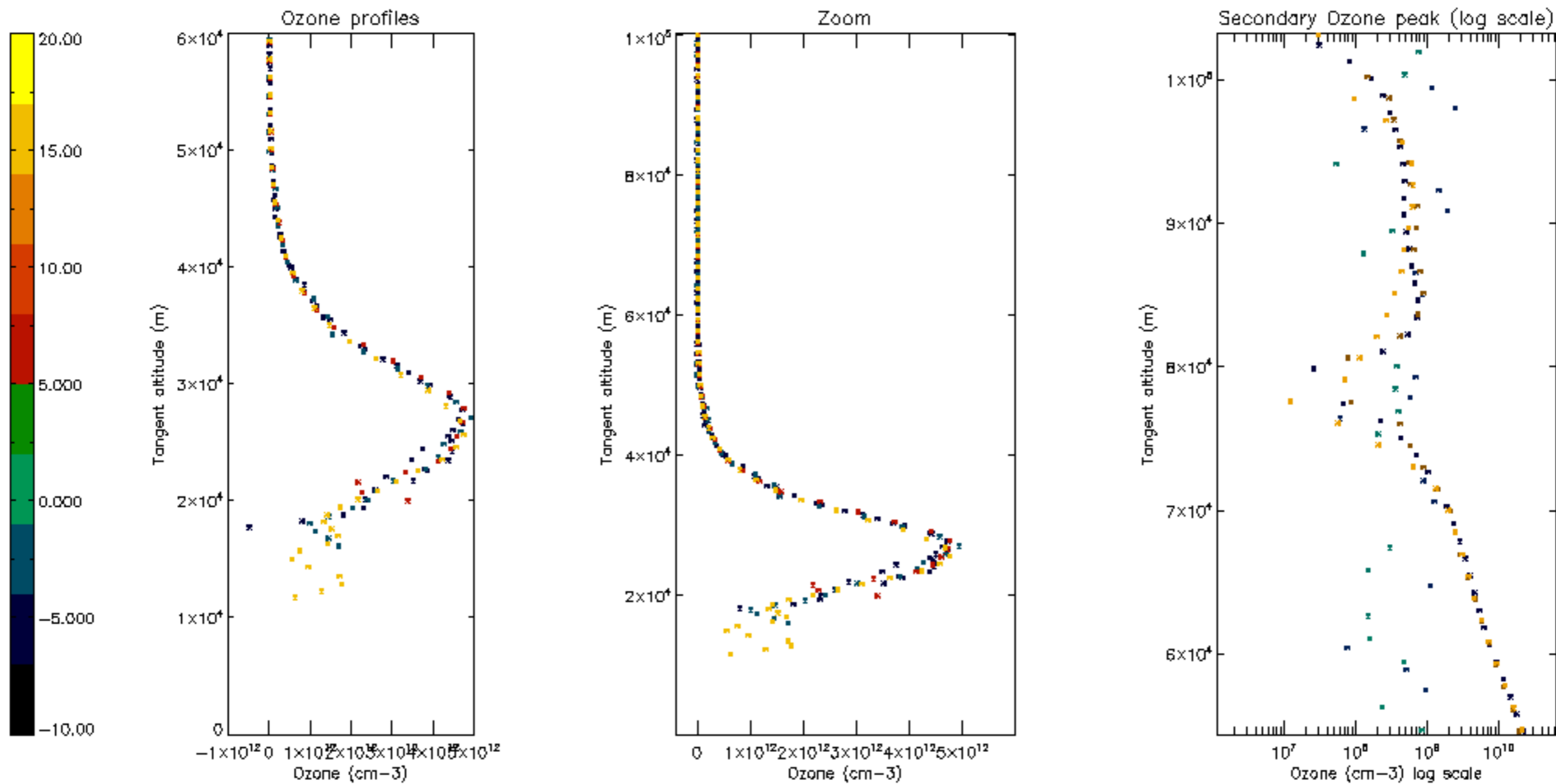


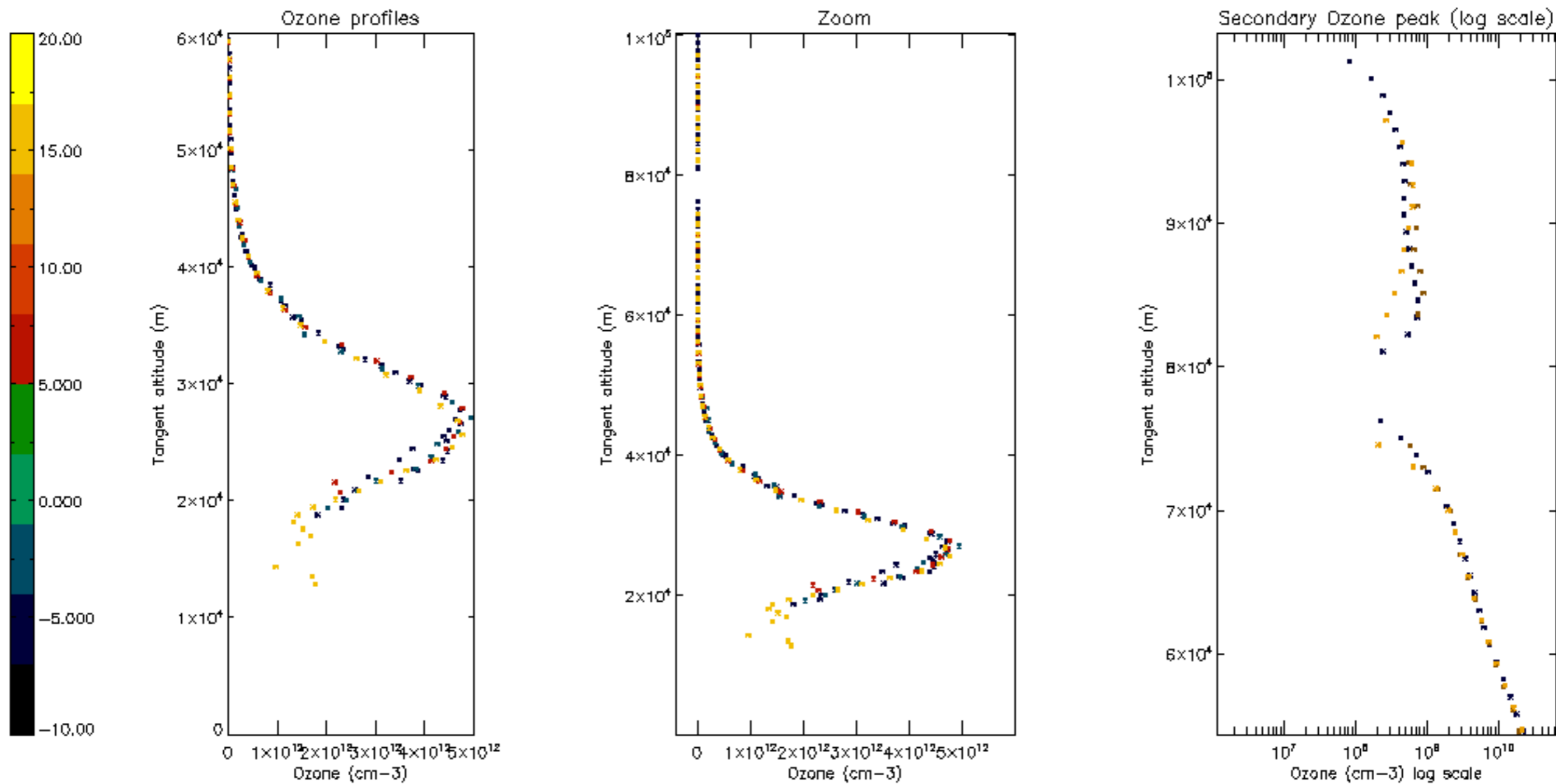
Percentage of star falling outside central band per profile

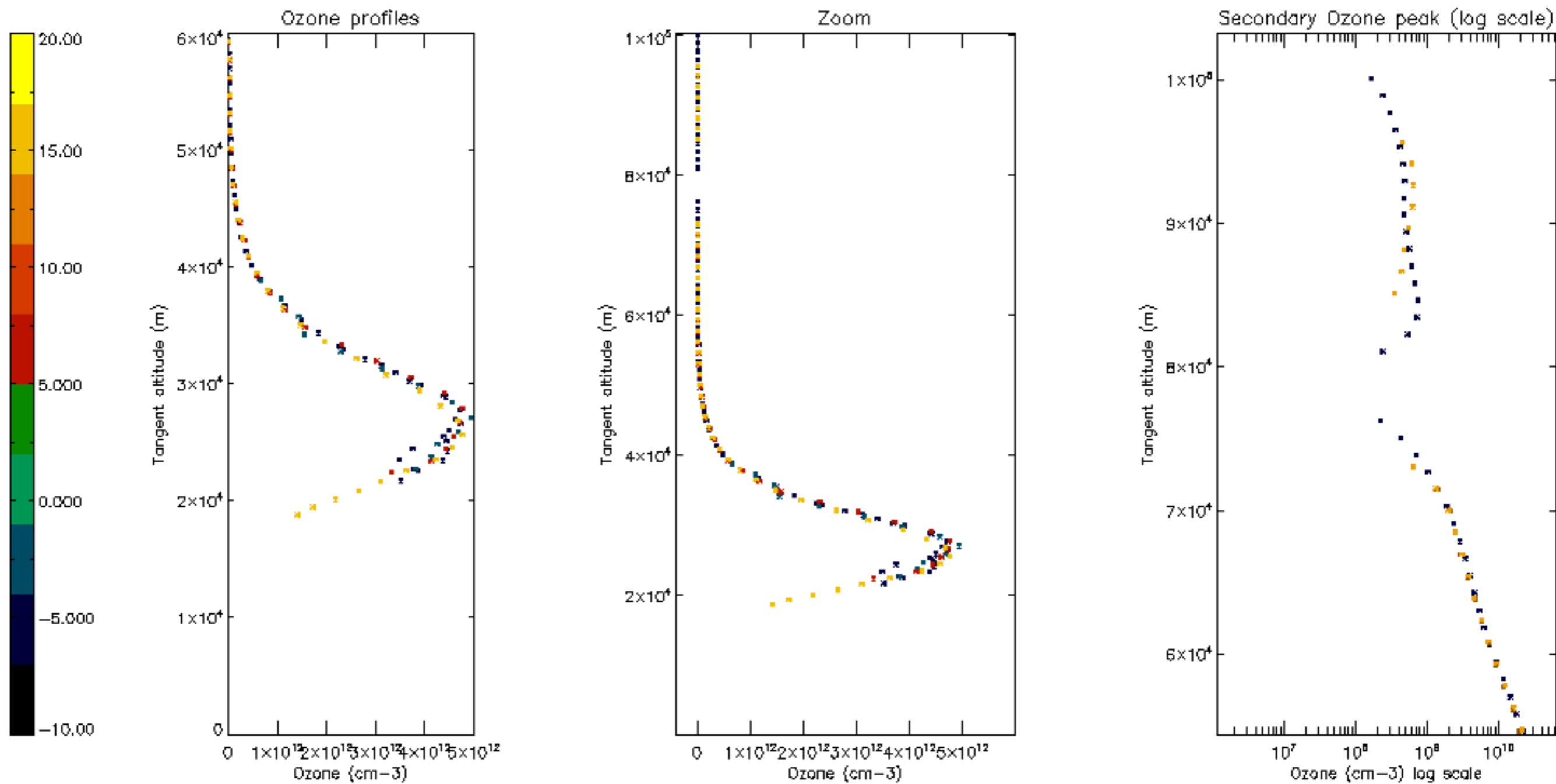


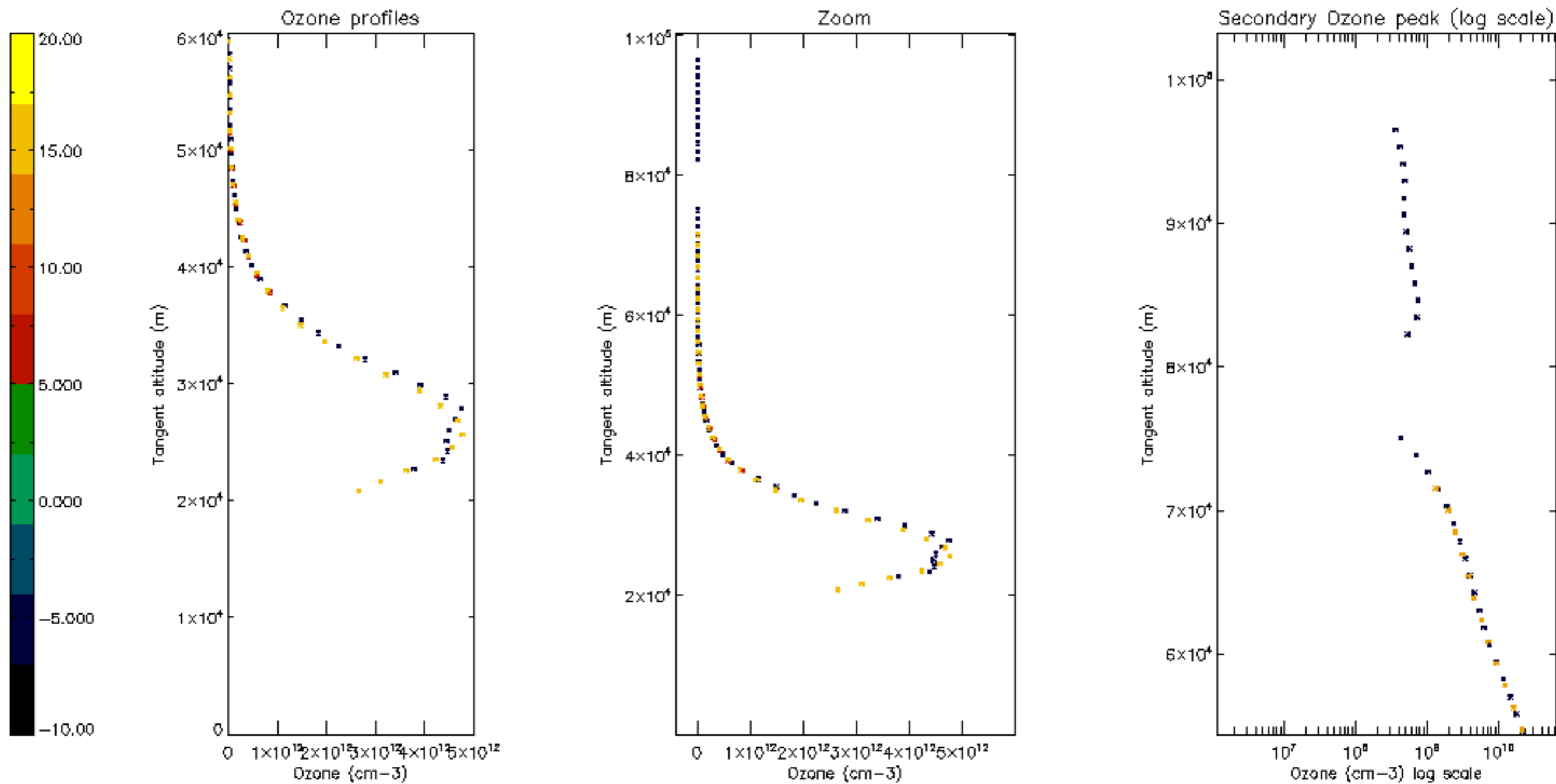
Percentage of saturation errors per profile

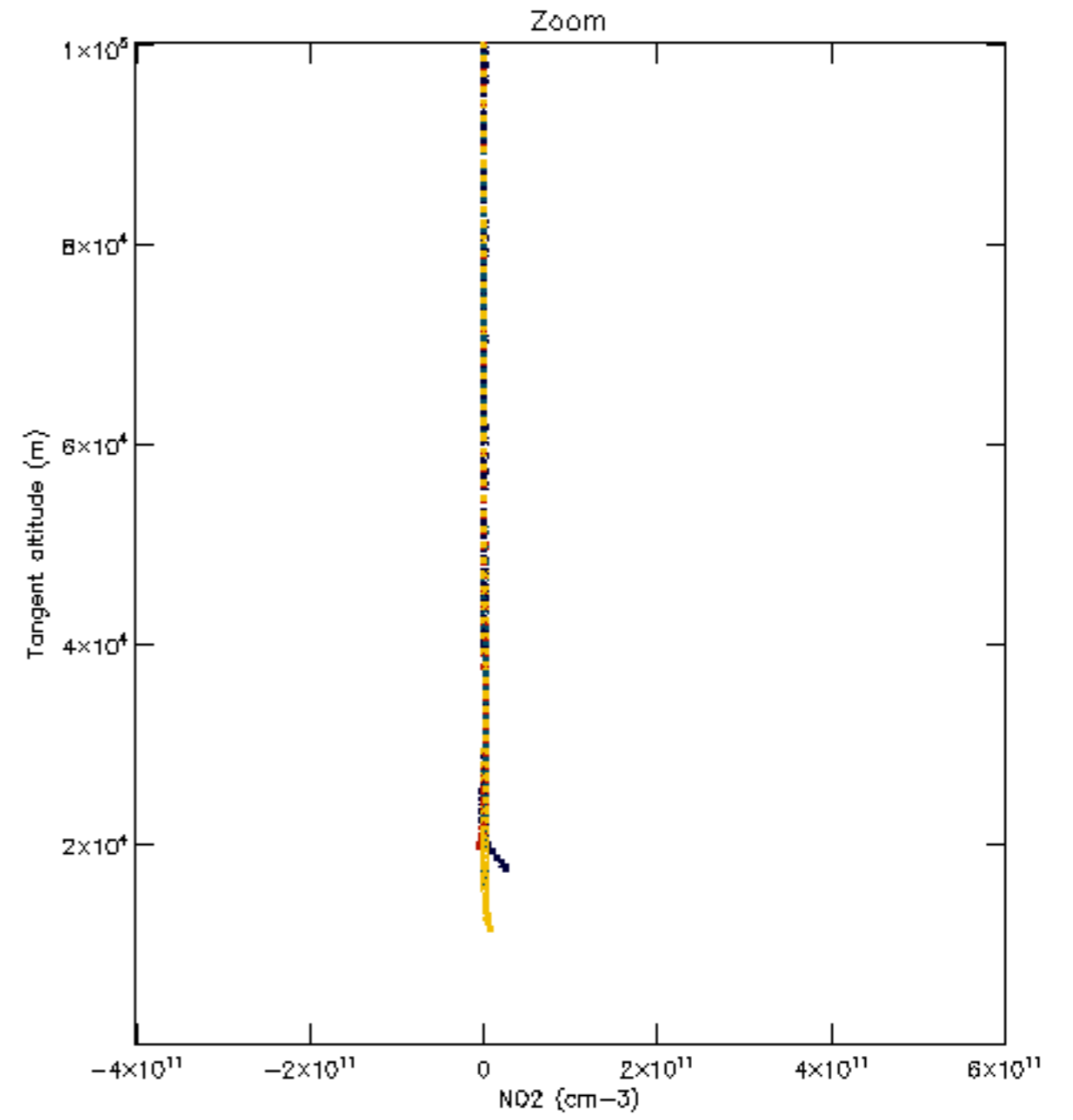
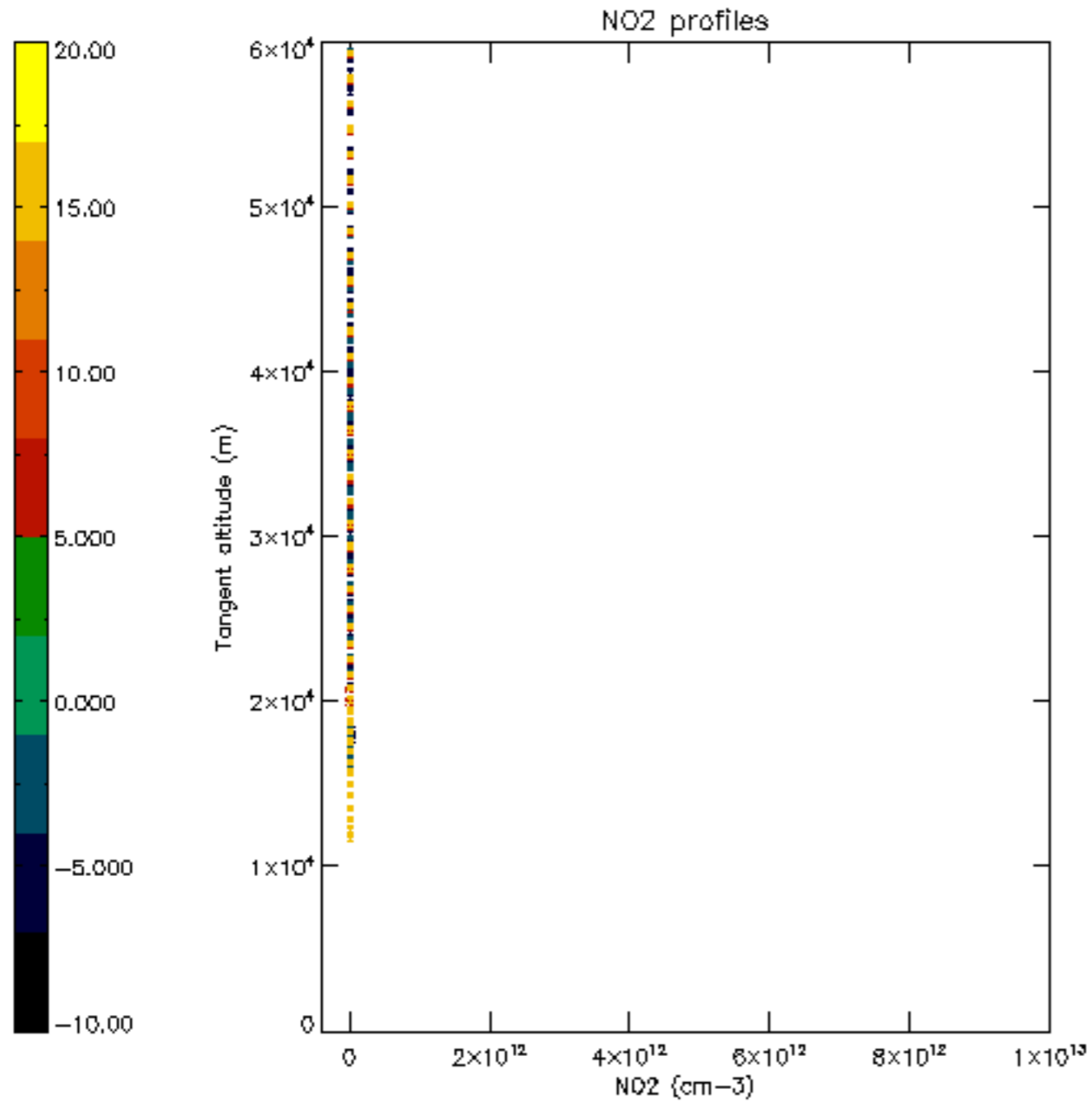


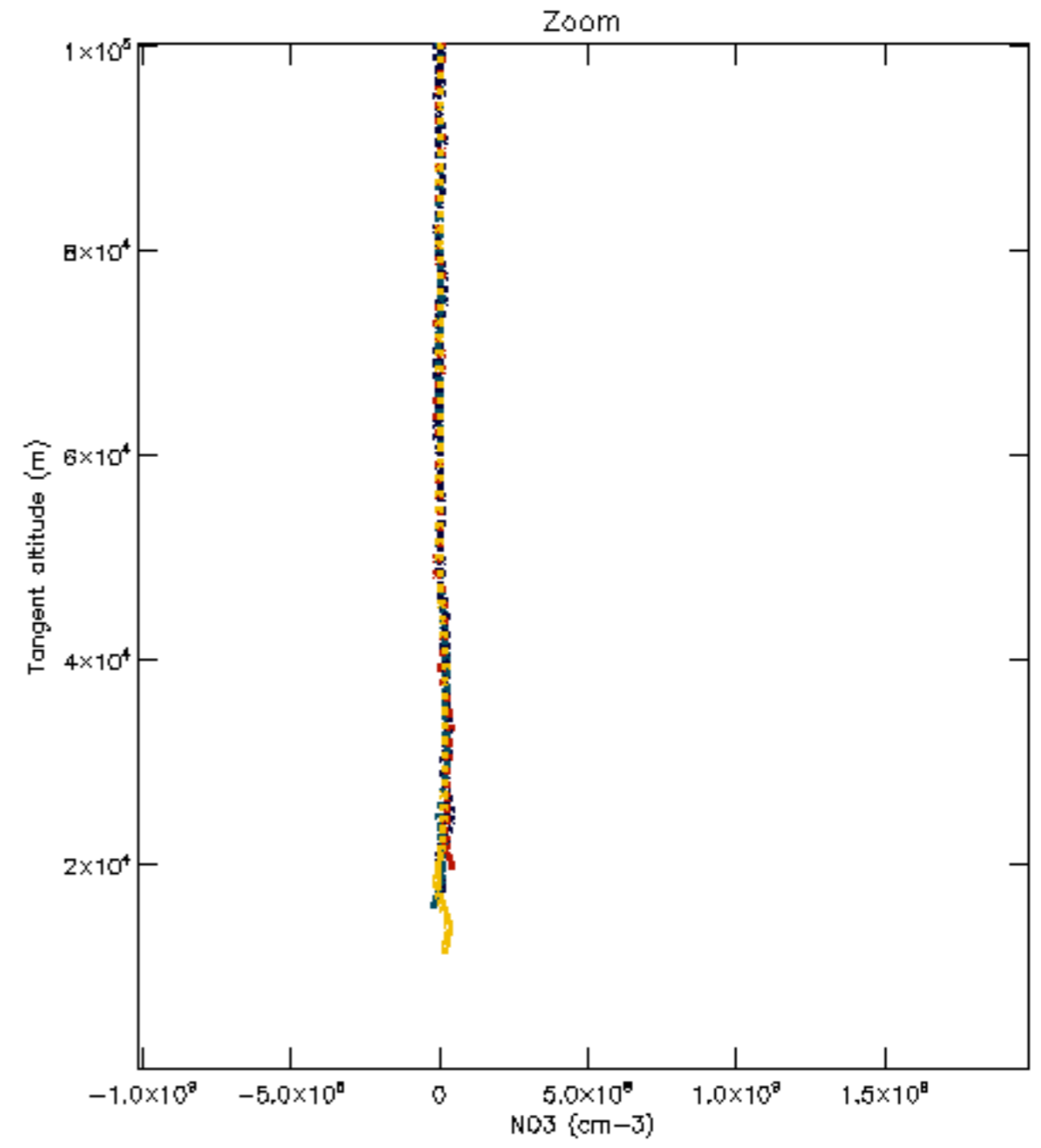
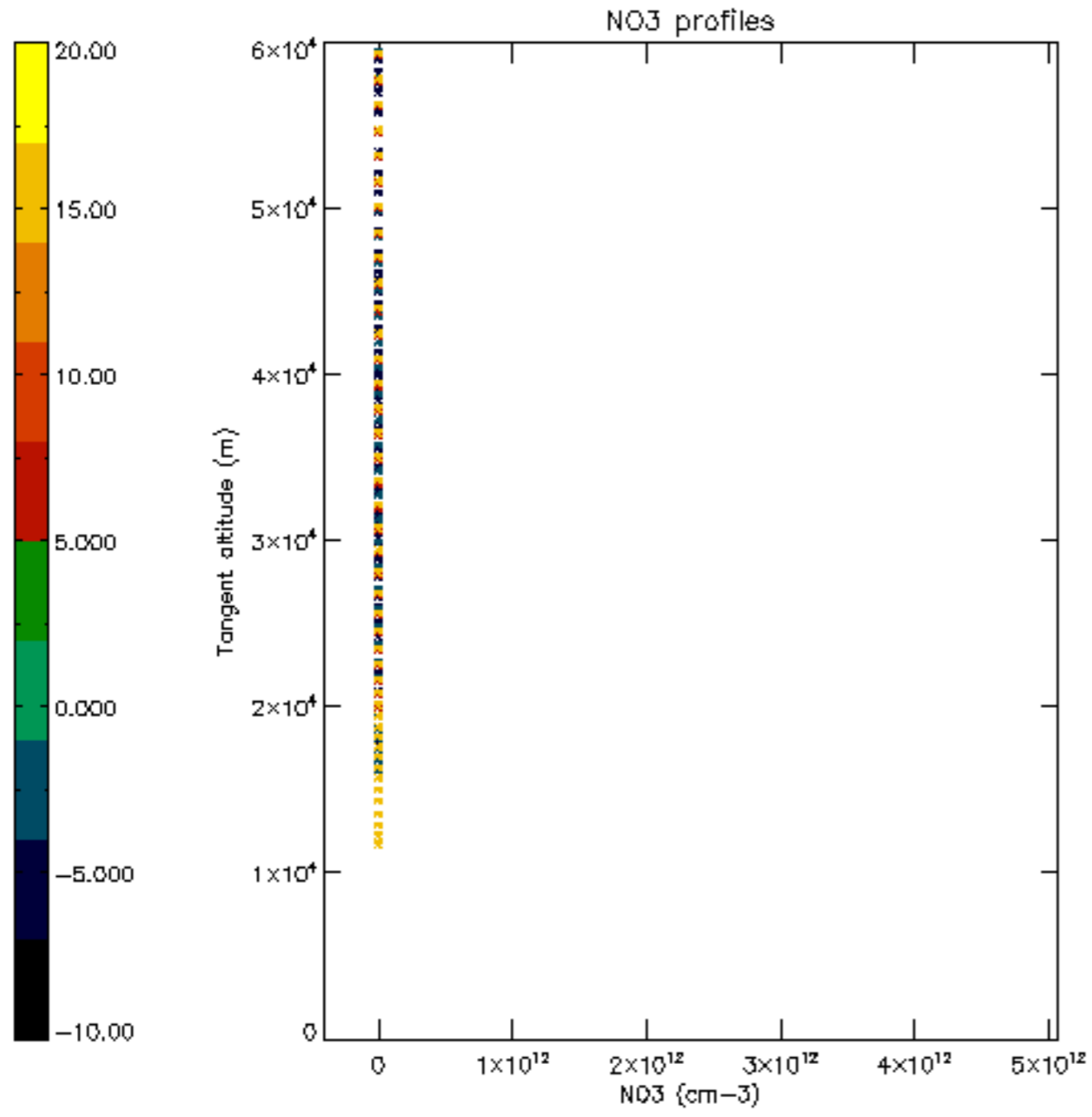


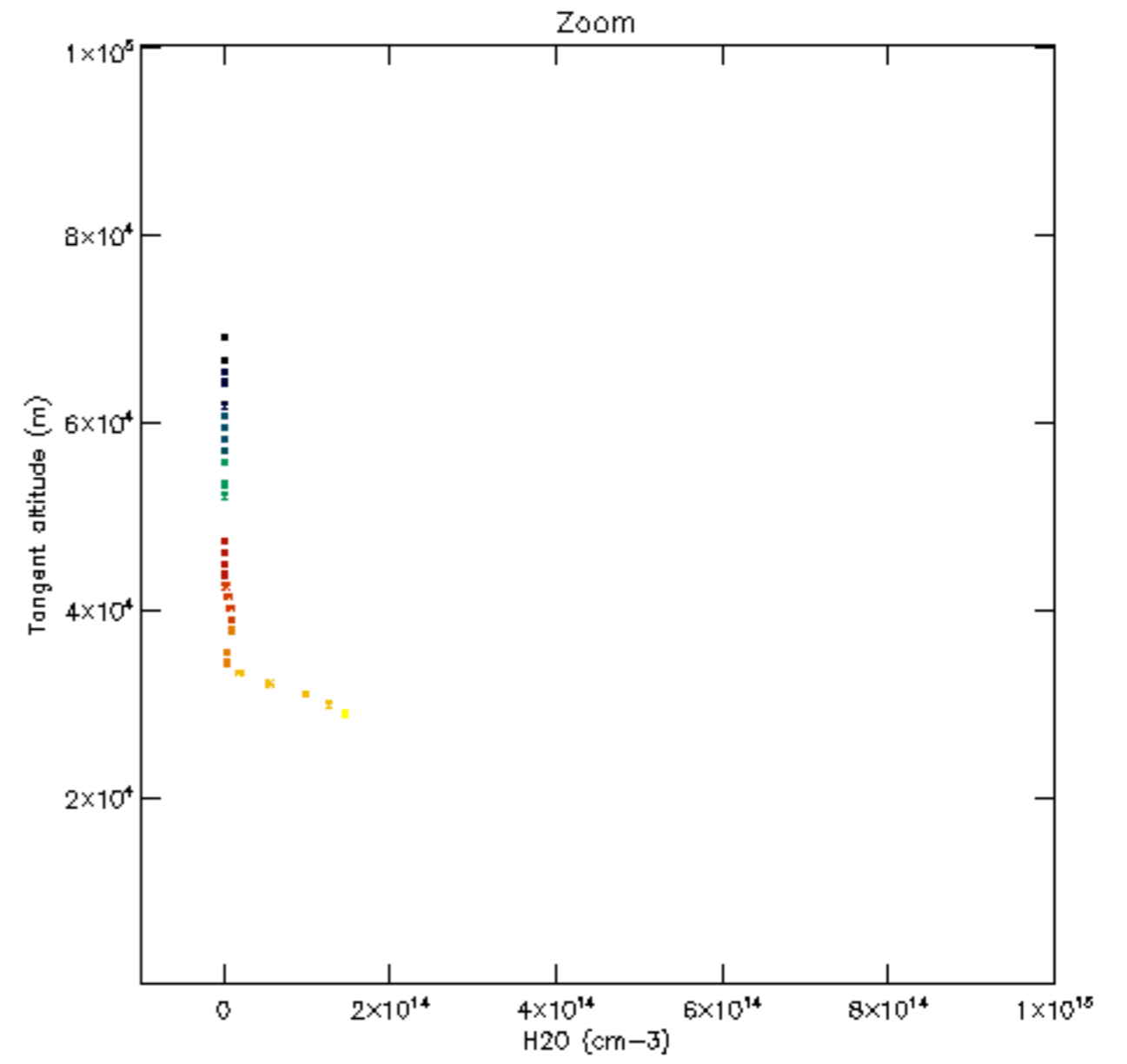
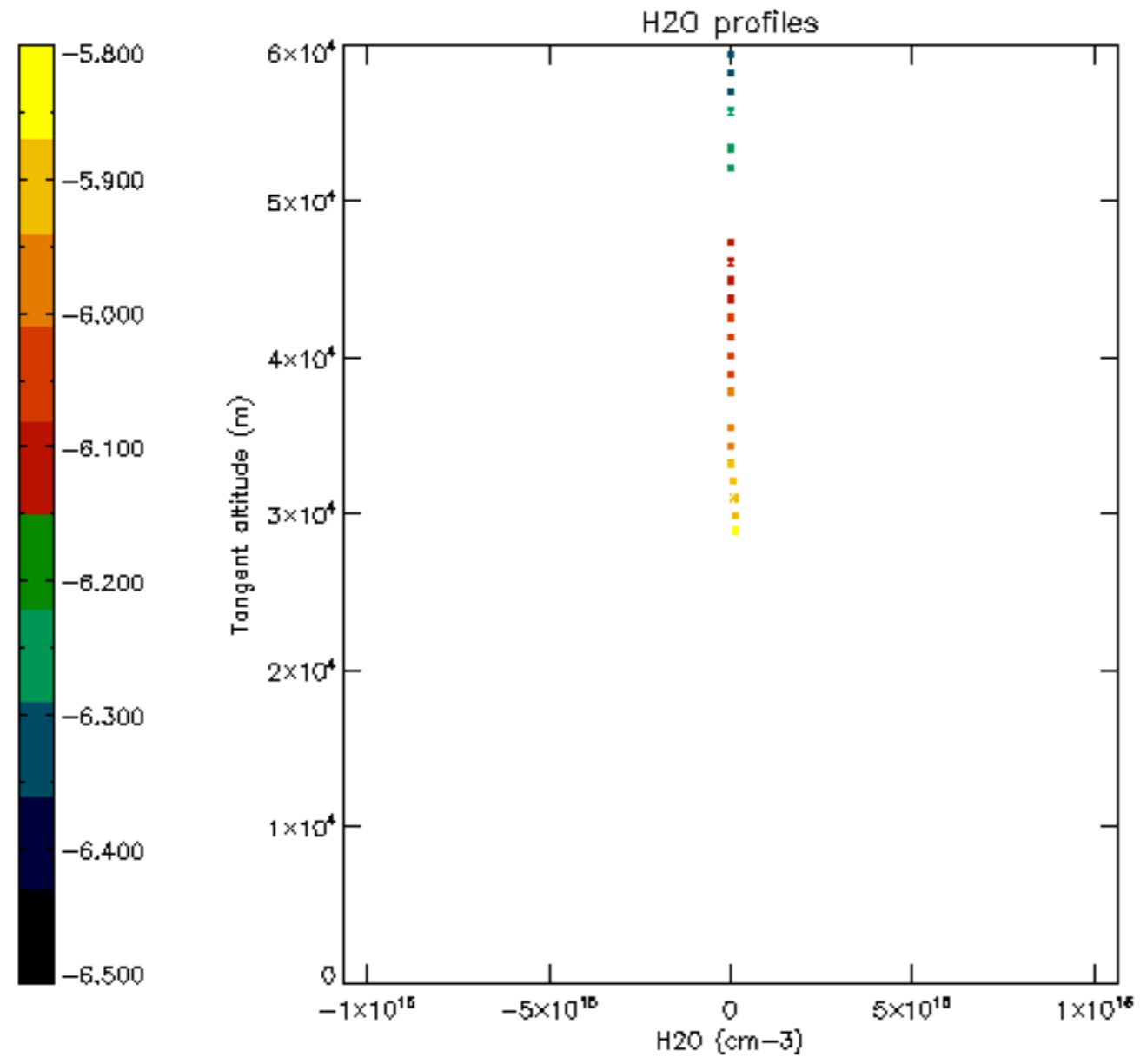


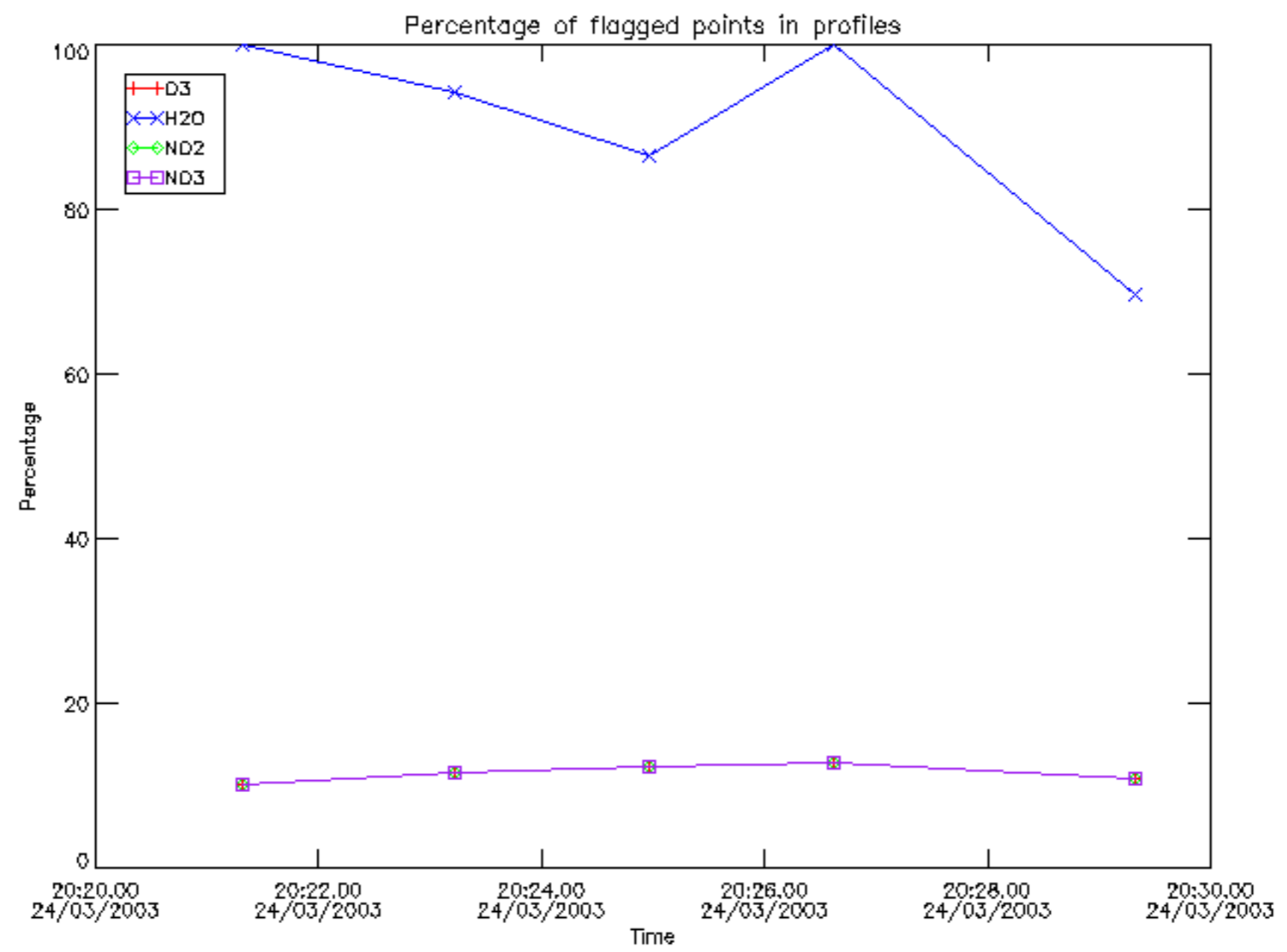




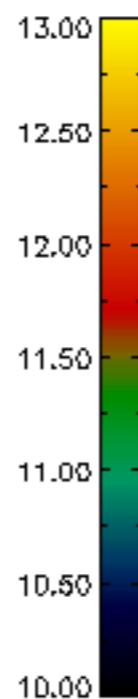
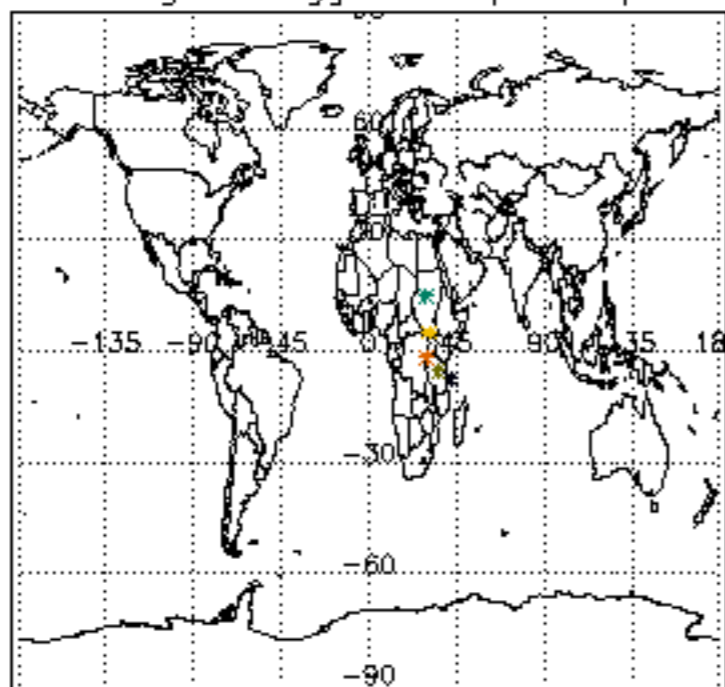




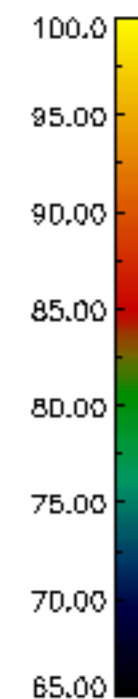
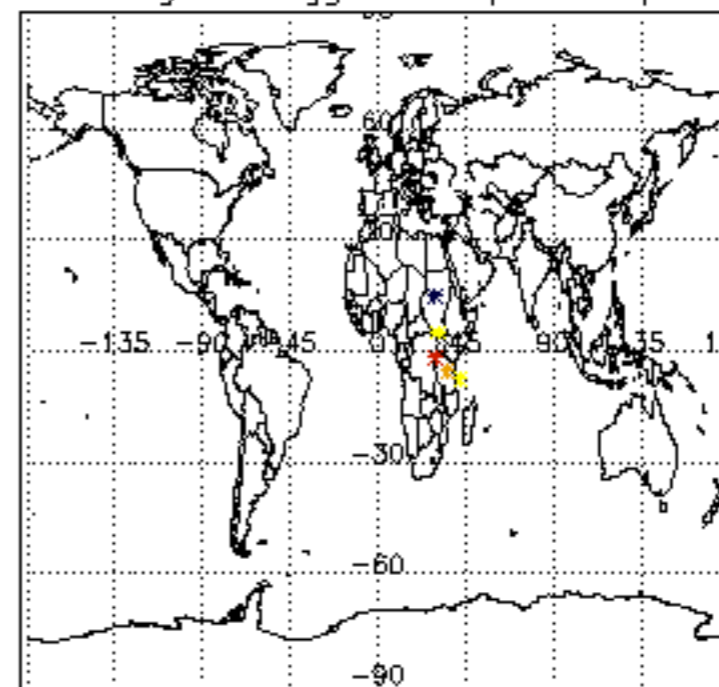




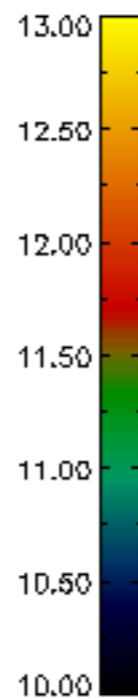
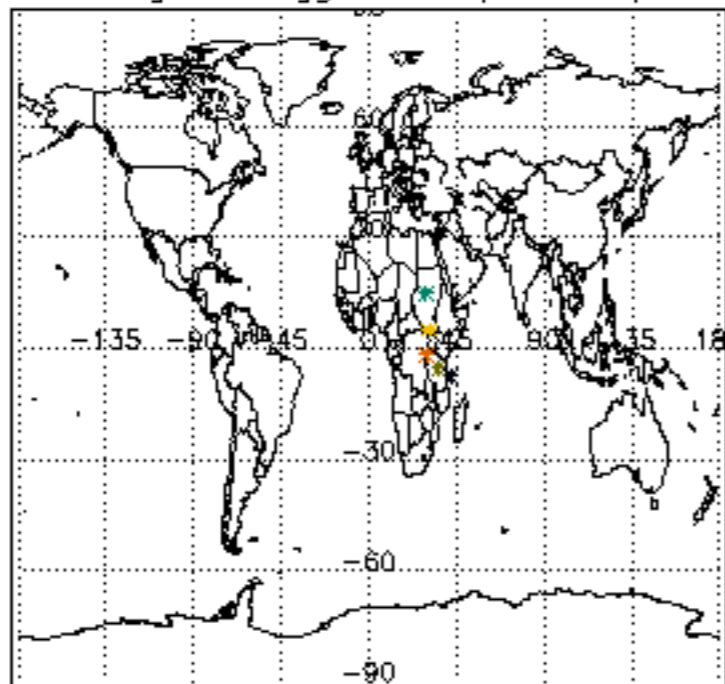
Percentage of flagged data per D3 profile



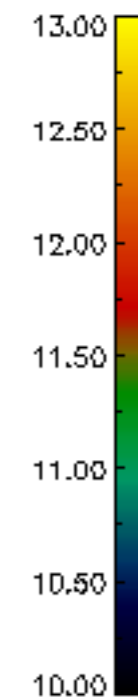
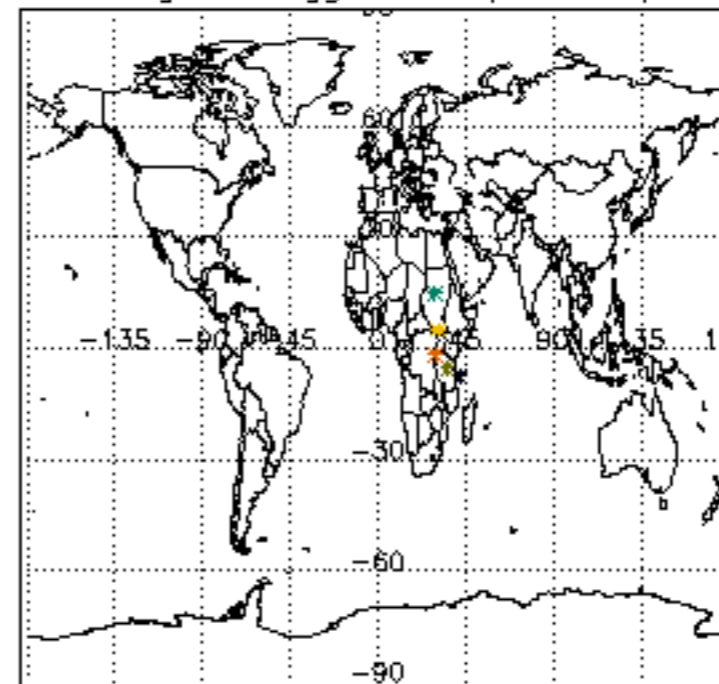
Percentage of flagged data per H2O profile

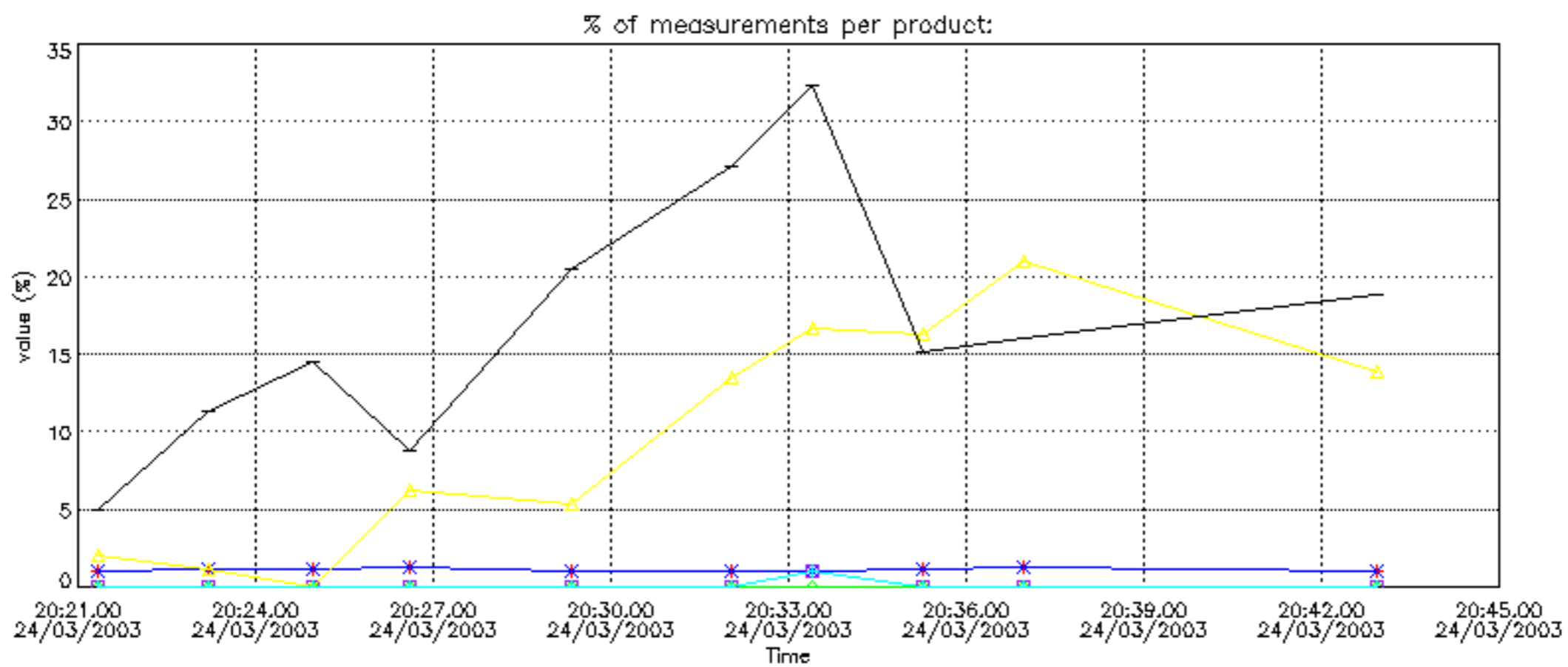


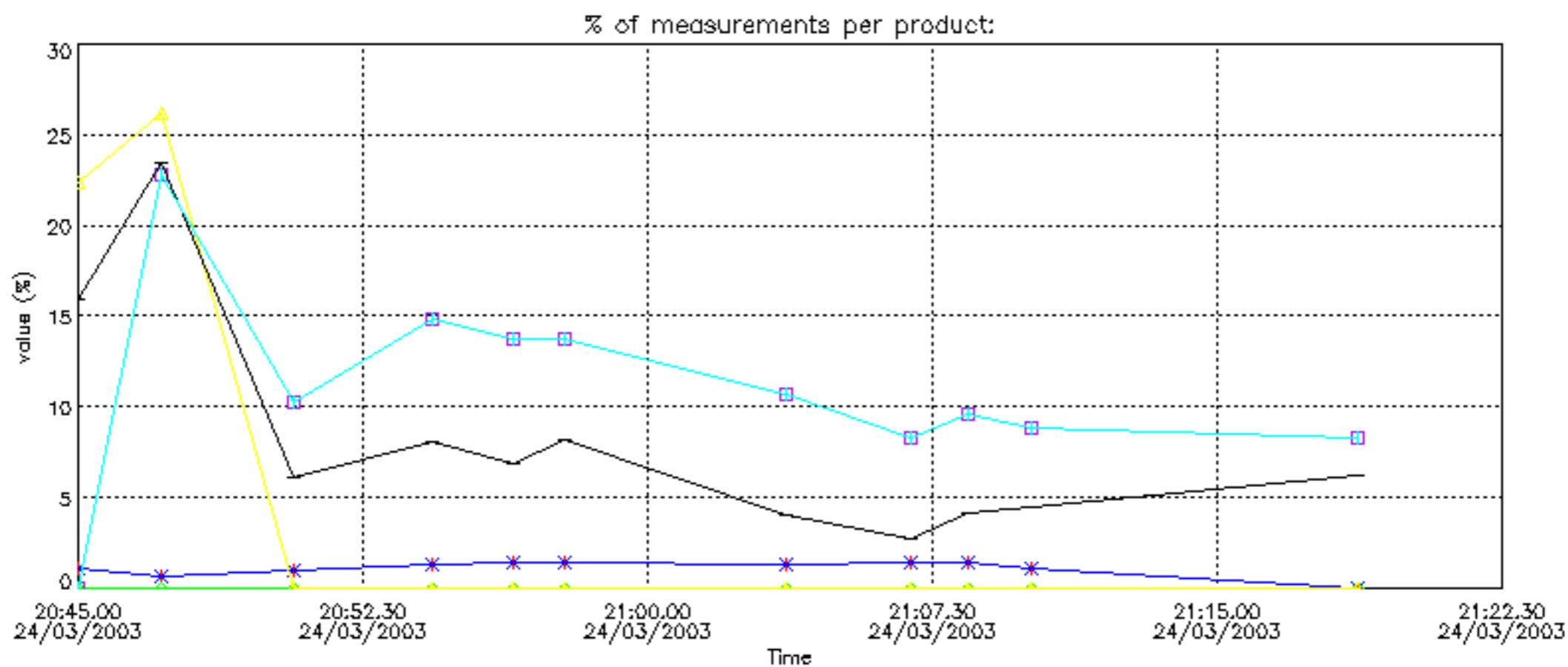
Percentage of flagged data per NO2 profile



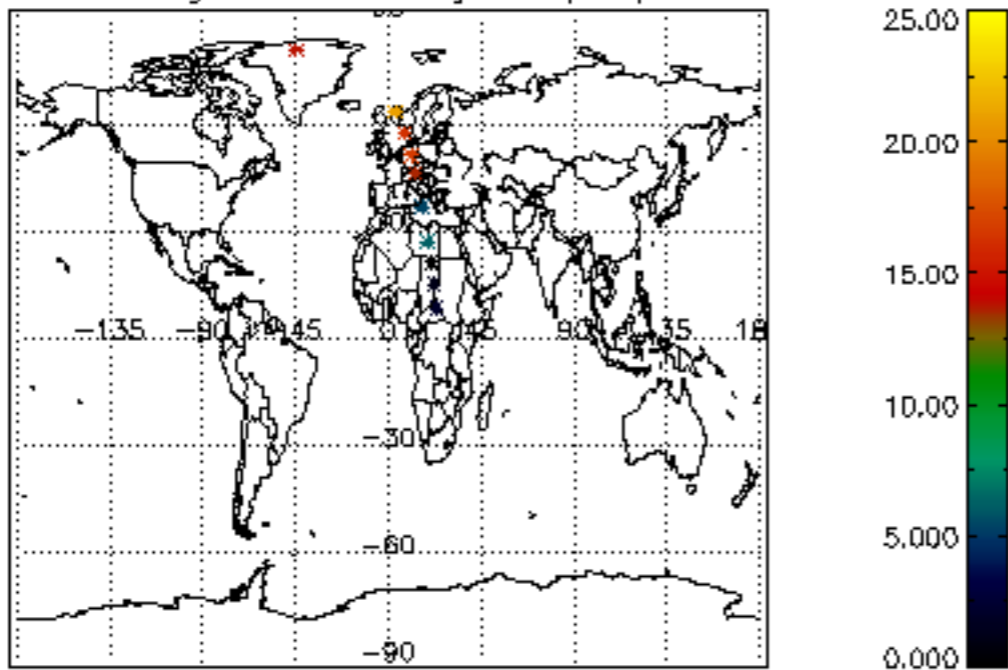
Percentage of flagged data per NO3 profile



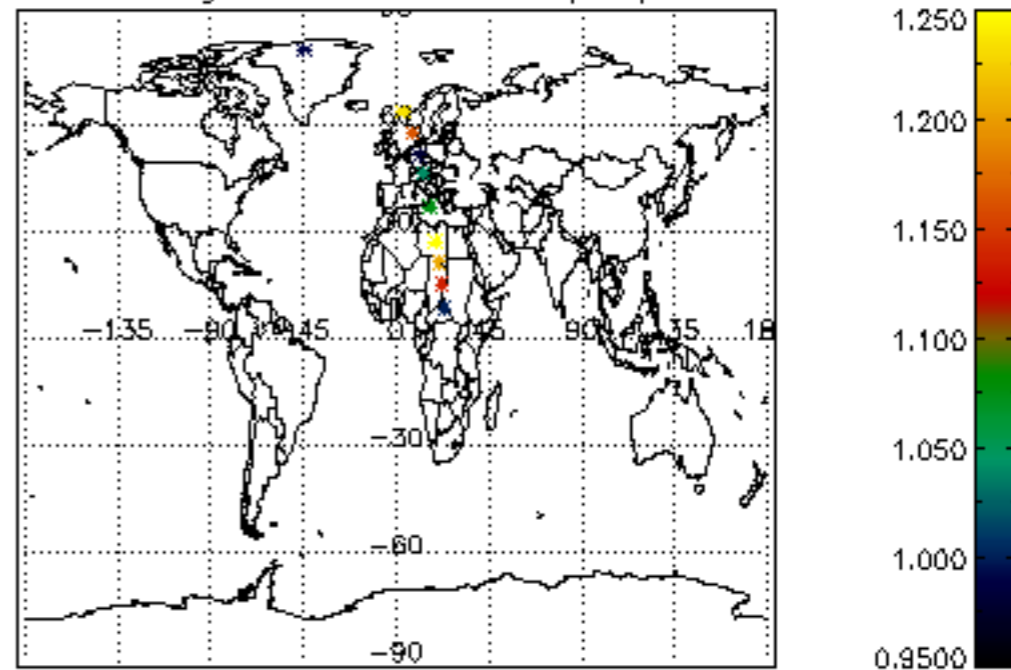




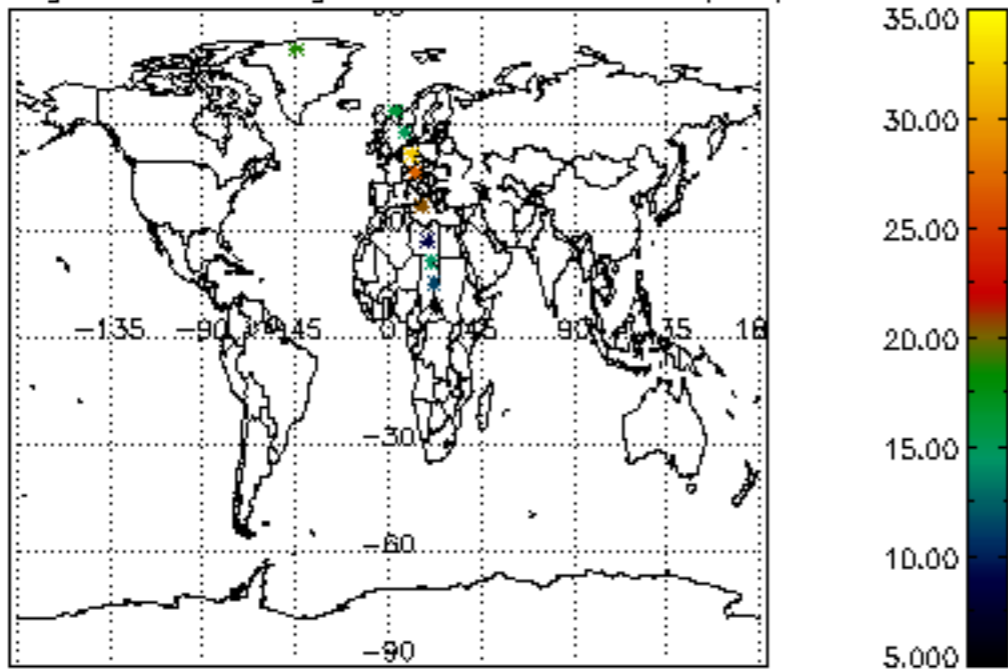
Percentage of cosmic ray hits per profile



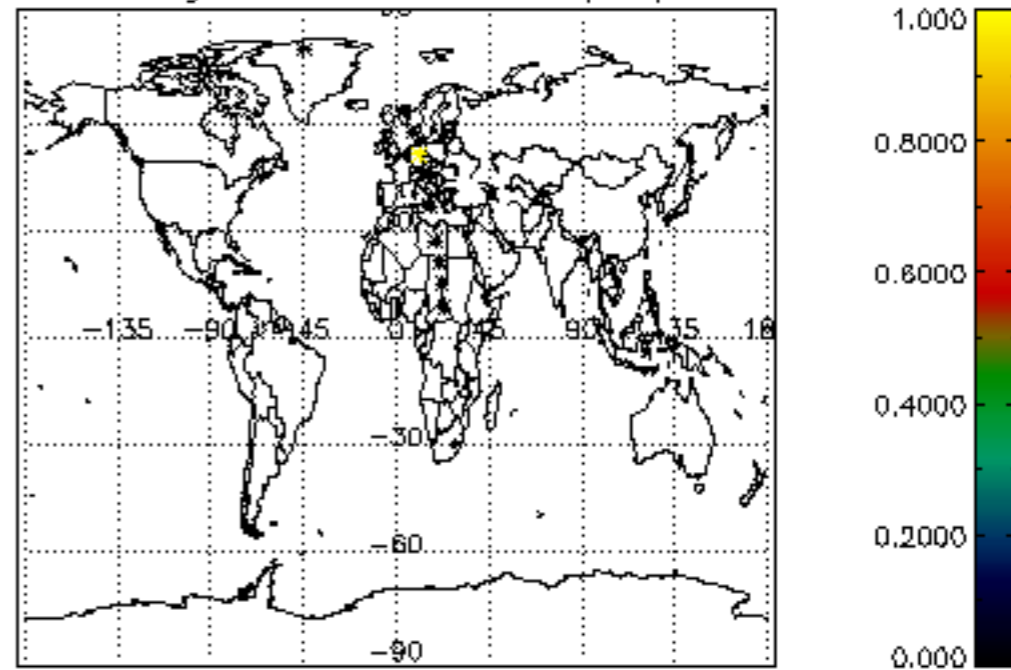
Percentage of datation errors per profile



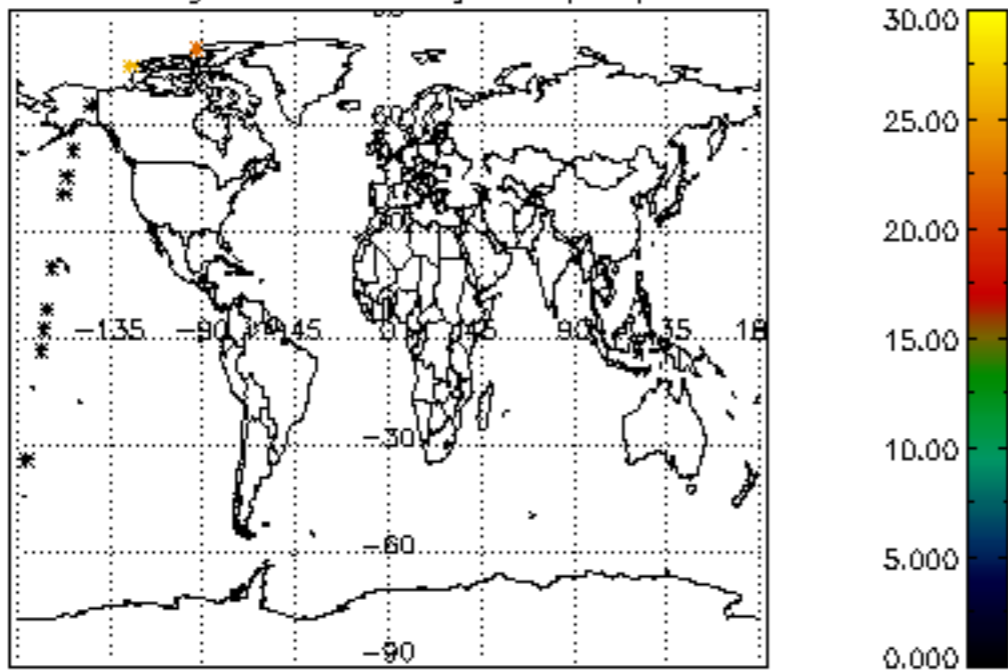
Percentage of star falling outside central band per profile



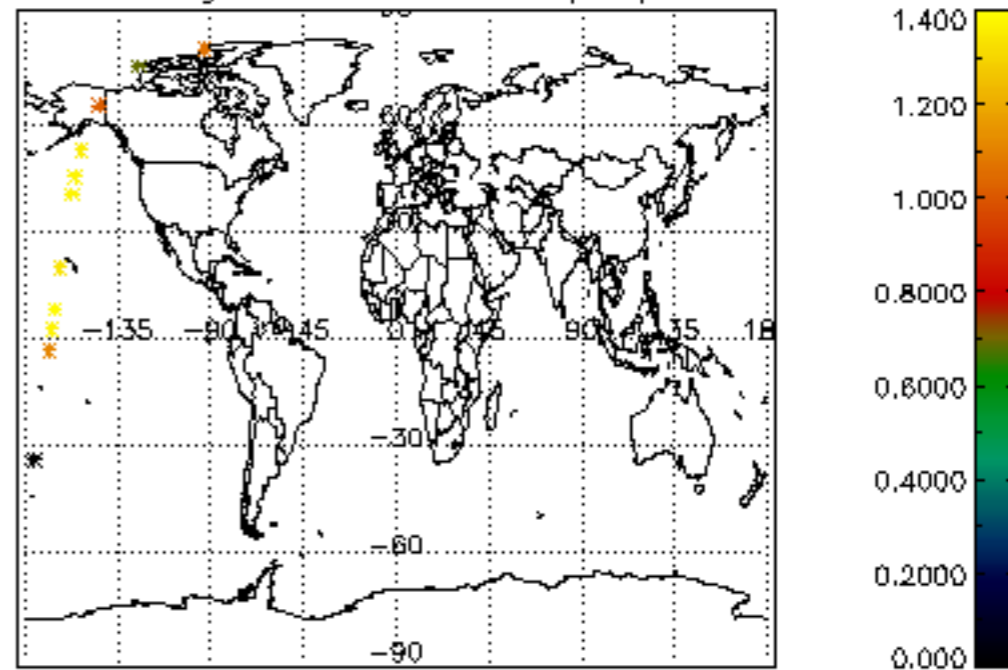
Percentage of saturation errors per profile



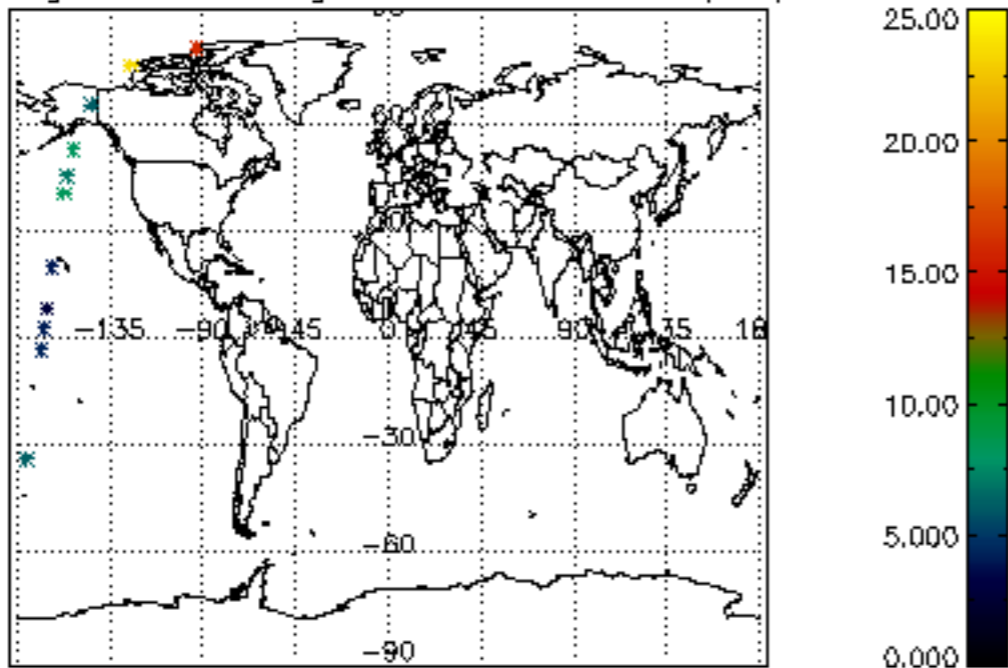
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

