

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	18APR2013 14:10:05
Data source version	GOMOS/6.01
Start time of products	03-03-2012 (03MAR2012 00:00:00)
Stop time of products	04-03-2012 (04MAR2012 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	22
Nb of prods with errors	0

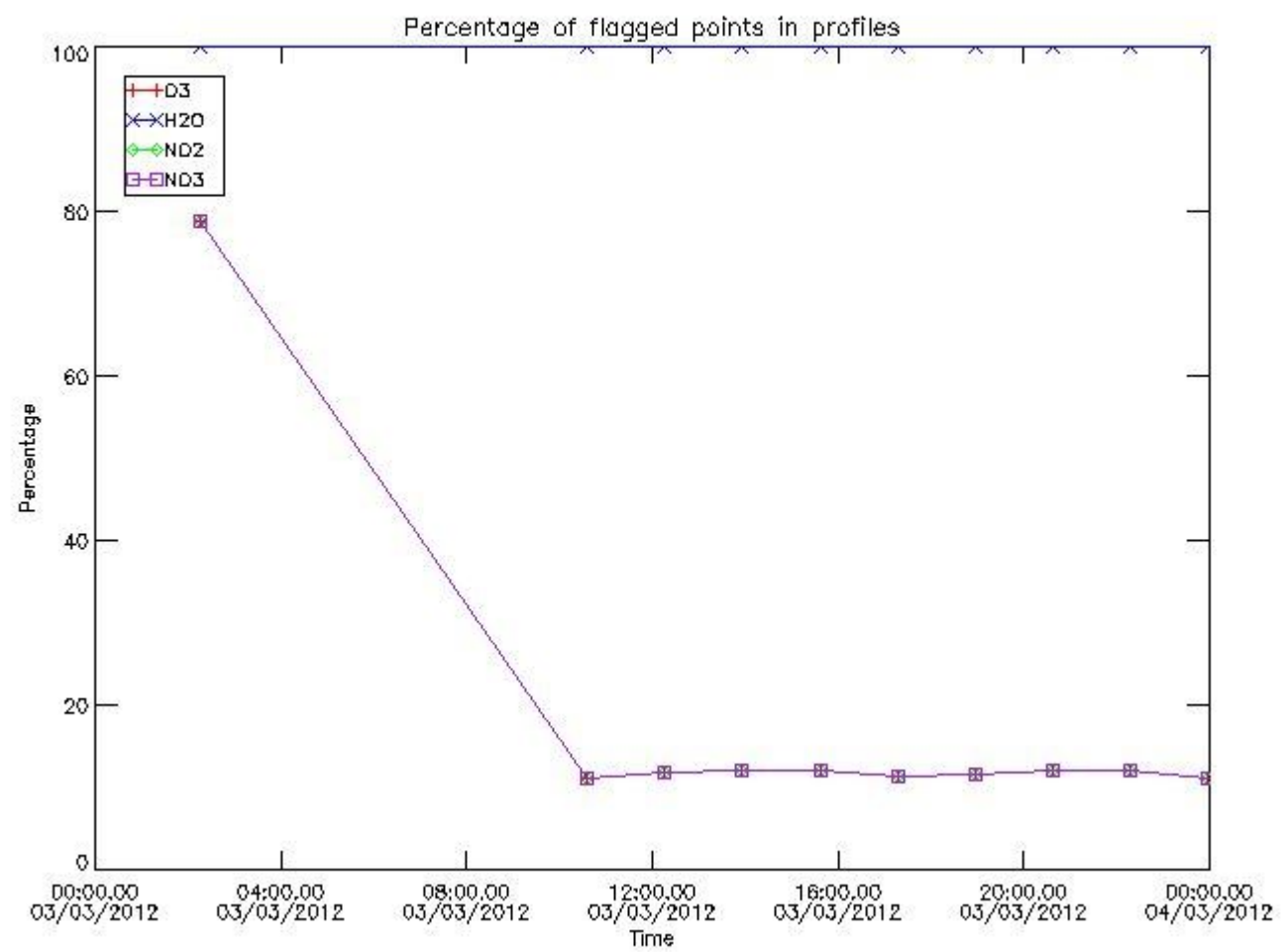
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20120303_021637_000000313112_00175_52344_9498.N1	03-MAR-2012 02:16:37	Dark	30.500	57	34Sig Sgr	2.0660	26000.	61	52344	No
2	GOM_NL__2PRFIN20120303_044346_000000273112_00177_52346_9536.N1	03-MAR-2012 04:43:46	Twilight	26.500	166	17Eps Leo	2.9800	6000.0	53	52346	No
3	GOM_NL__2PRFIN20120303_062400_000000333112_00178_52347_9547.N1	03-MAR-2012 06:24:00	Bright	32.500	166	17Eps Leo	2.9800	6000.0	65	52347	No
4	GOM_NL__2PRFIN20120303_080414_000000383112_00179_52348_9571.N1	03-MAR-2012 08:04:14	Bright	37.500	166	17Eps Leo	2.9800	6000.0	75	52348	No
5	GOM_NL__2PRFIN20120303_094428_000000383112_00180_52349_9737.N1	03-MAR-2012 09:44:28	Bright	37.500	166	17Eps Leo	2.9800	6000.0	75	52349	No
6	GOM_NL__2PRFIN20120303_103557_000000463112_00180_52349_9738.N1	03-MAR-2012 10:35:57	Dark	45.500	155	41Pi Sgr	2.9000	6600.0	91	52349	No
7	GOM_NL__2PRFIN20120303_112442_000000383112_00181_52350_9725.N1	03-MAR-2012 11:24:42	Bright	37.500	166	17Eps Leo	2.9800	6000.0	75	52350	No
8	GOM_NL__2PRFIN20120303_121611_000000433112_00181_52350_9726.N1	03-MAR-2012 12:16:11	Dark	43.000	155	41Pi Sgr	2.9000	6600.0	86	52350	No
9	GOM_NL__2PRFIN20120303_130455_000000393112_00182_52351_9713.N1	03-MAR-2012 13:04:55	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	52351	No
10	GOM_NL__2PRFIN20120303_135626_000000423112_00182_52351_9714.N1	03-MAR-2012 13:56:26	Dark	41.500	155	41Pi Sgr	2.9000	6600.0	83	52351	No
11	GOM_NL__2PRFIN20120303_144509_000000383112_00183_52352_9736.N1	03-MAR-2012 14:45:09	Bright	37.500	166	17Eps Leo	2.9800	6000.0	75	52352	No
12	GOM_NL__2PRFIN20120303_153640_000000423112_00183_52352_9737.N1	03-MAR-2012 15:36:40	Dark	42.000	155	41Pi Sgr	2.9000	6600.0	84	52352	No
13	GOM_NL__2PRFIN20120303_162524_000000373112_00184_52353_9790.N1	03-MAR-2012 16:25:24	Bright	37.000	166	17Eps Leo	2.9800	6000.0	74	52353	No
14	GOM_NL__2PRFIN20120303_171655_000000453112_00184_52353_9791.N1	03-MAR-2012 17:16:55	Dark	44.500	155	41Pi Sgr	2.9000	6600.0	89	52353	No
15	GOM_NL__2PRFIN20120303_180538_000000393112_00185_52354_9824.N1	03-MAR-2012 18:05:38	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	52354	No
16	GOM_NL__2PRFIN20120303_185710_000000443112_00185_52354_9825.N1	03-MAR-2012 18:57:10	Dark	43.500	155	41Pi Sgr	2.9000	6600.0	87	52354	No
17	GOM_NL__2PRFIN20120303_194552_000000393112_00186_52355_9850.N1	03-MAR-2012 19:45:52	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	52355	No
18	GOM_NL__2PRFIN20120303_203725_000000423112_00186_52355_9851.N1	03-MAR-2012 20:37:25	Dark	42.000	155	41Pi Sgr	2.9000	6600.0	84	52355	No
19	GOM_NL__2PRFIN20120303_212605_000000393112_00187_52356_9896.N1	03-MAR-2012 21:26:05	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	52356	No
20	GOM_NL__2PRFIN20120303_221739_000000433112_00187_52356_9897.N1	03-MAR-2012 22:17:39	Dark	42.500	155	41Pi Sgr	2.9000	6600.0	85	52356	No
21	GOM_NL__2PRFIN20120303_230619_000000383112_00188_52357_9910.N1	03-MAR-2012 23:06:19	Bright	38.000	166	17Eps Leo	2.9800	6000.0	76	52357	No
22	GOM_NL__2PRFIN20120303_235753_000000463112_00188_52357_9911.N1	03-MAR-2012 23:57:53	Dark	45.500	155	41Pi Sgr	2.9000	6600.0	91	52357	No

3. Quality information per product

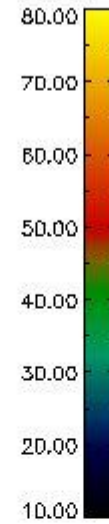
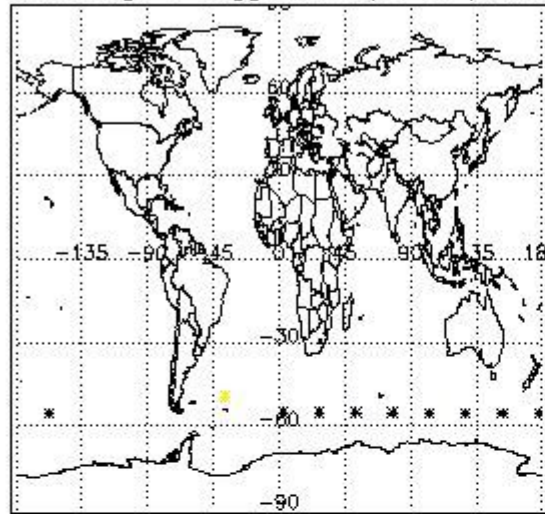
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

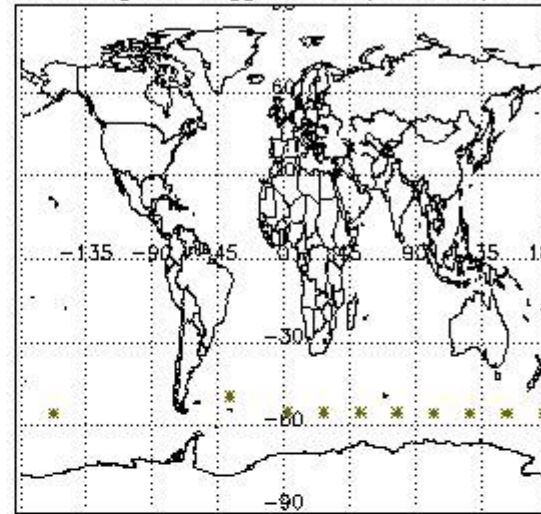


3.2 Plot quality information per product (world map)

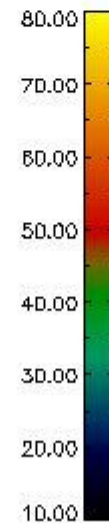
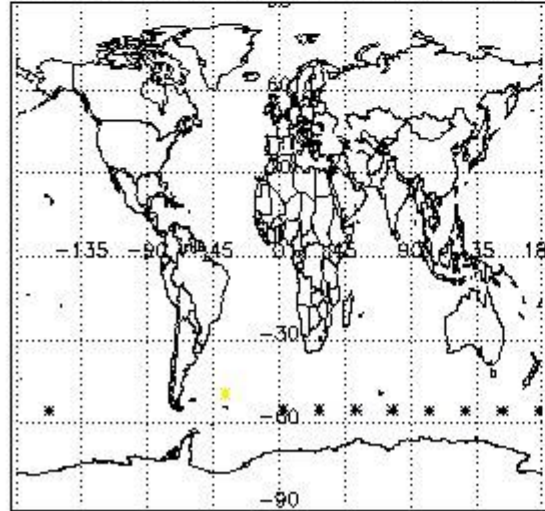
Percentage of flagged data per O3 profile



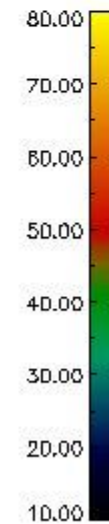
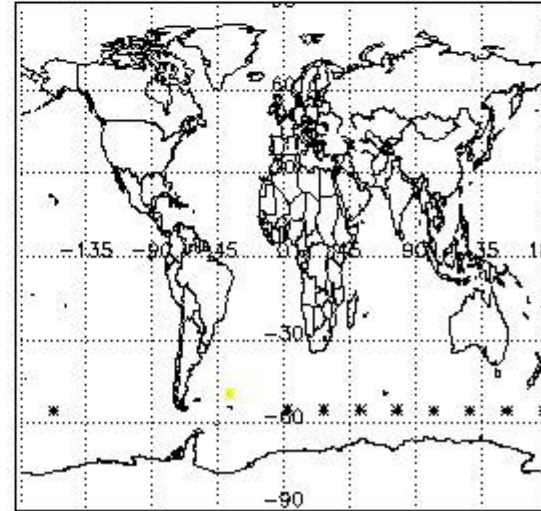
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

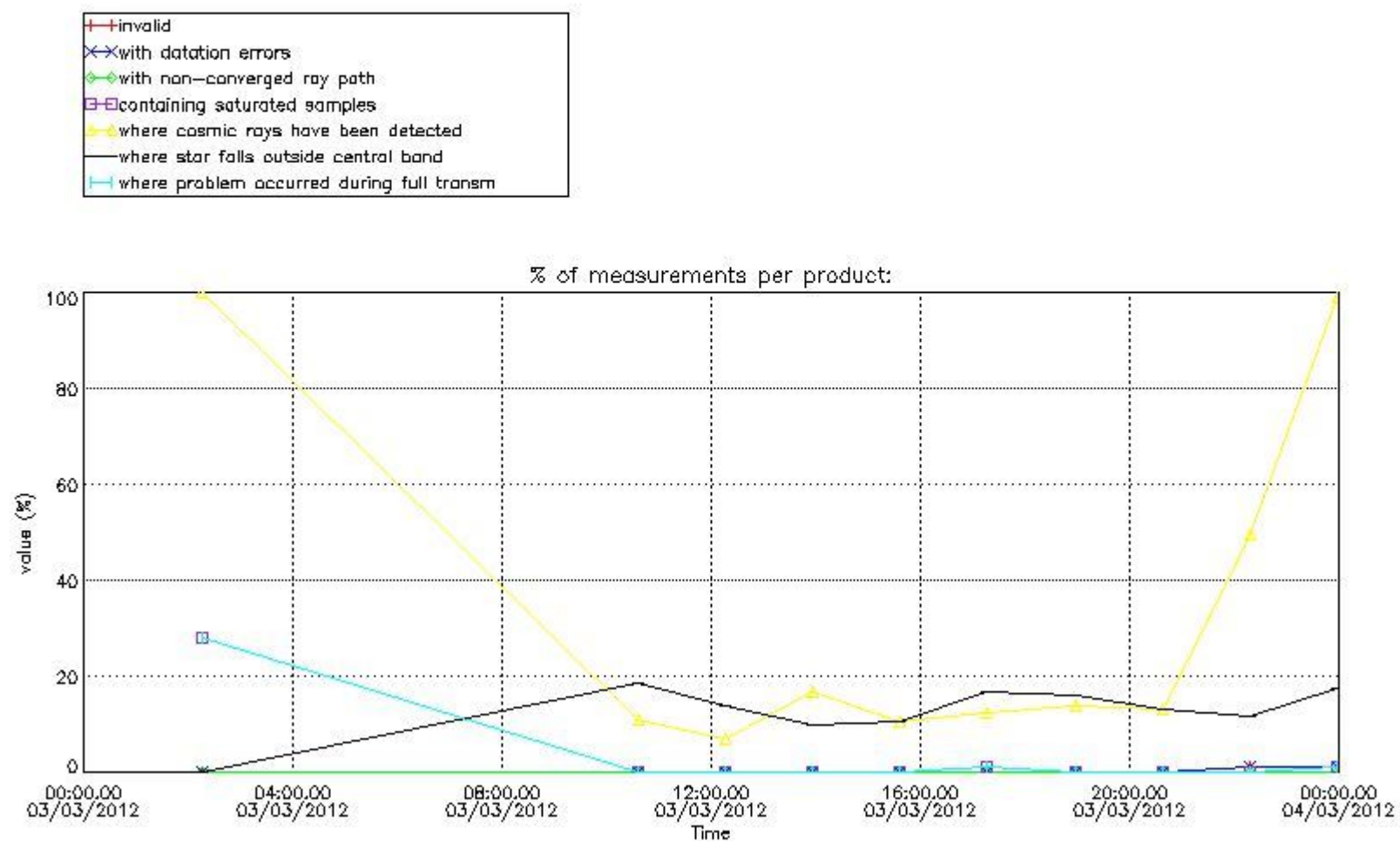


4. Level 1 quality information per product

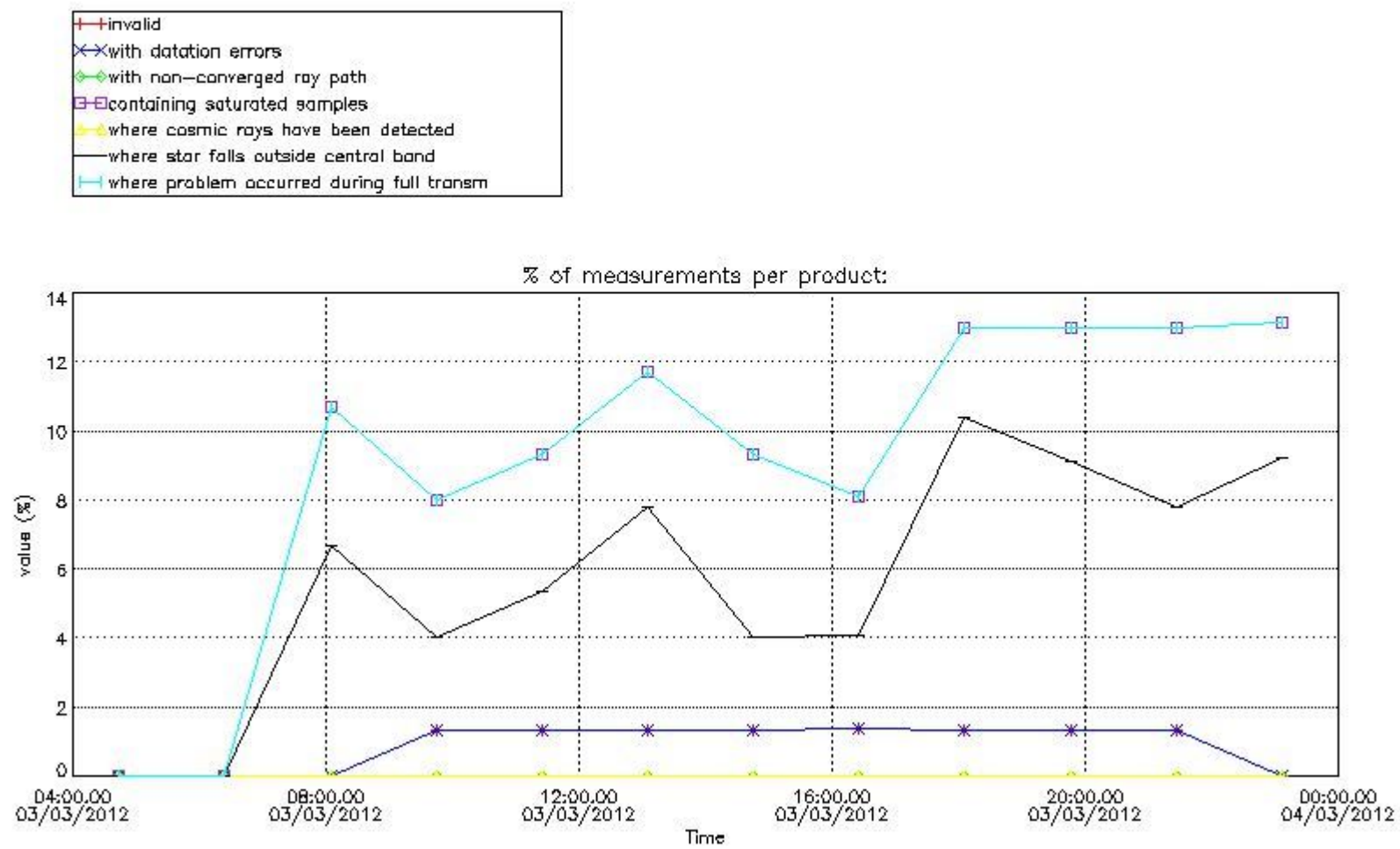
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



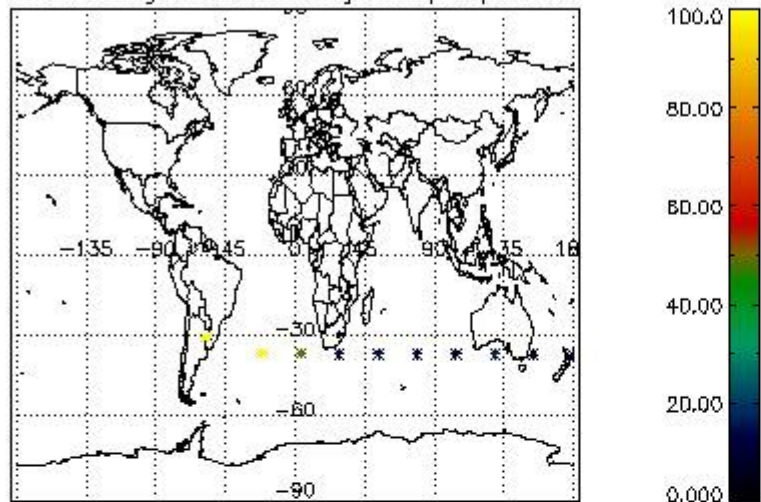
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



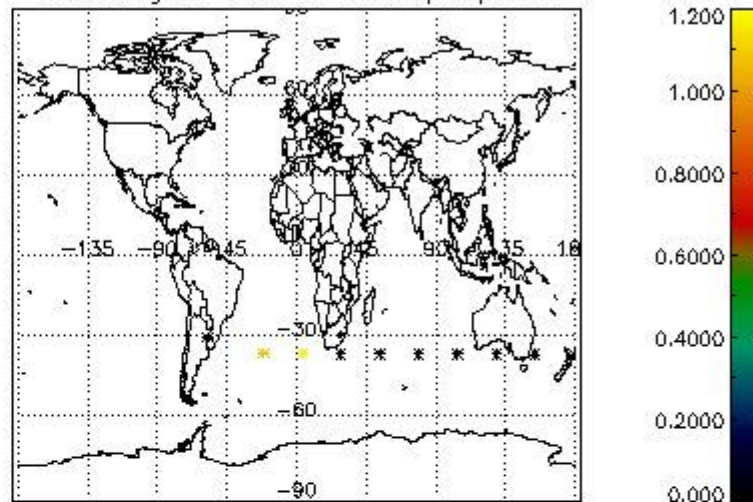
4.2 Plot quality information per product coming from level 1b processing (world map)

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

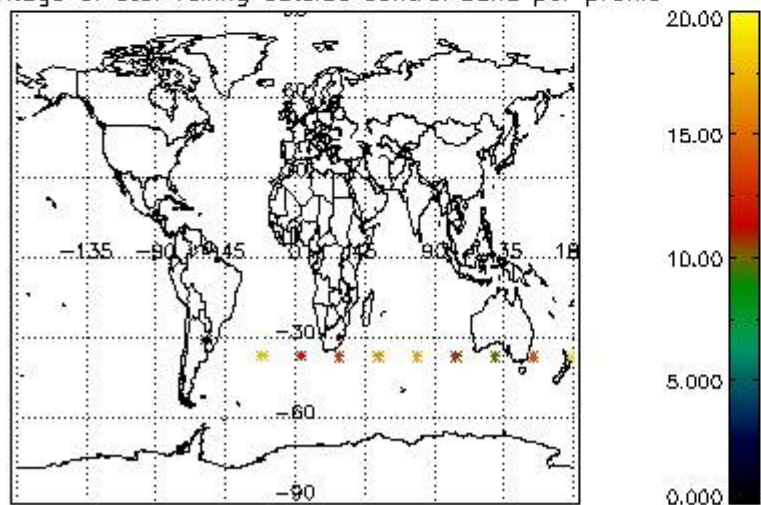
Percentage of cosmic ray hits per profile



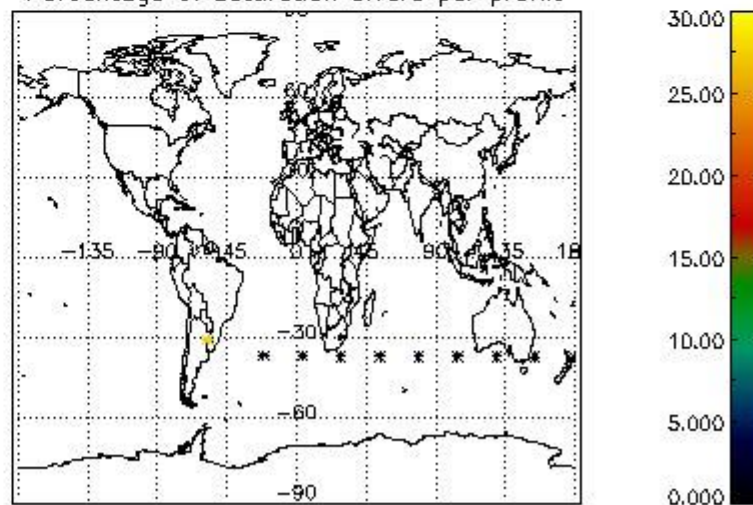
Percentage of datation errors per profile



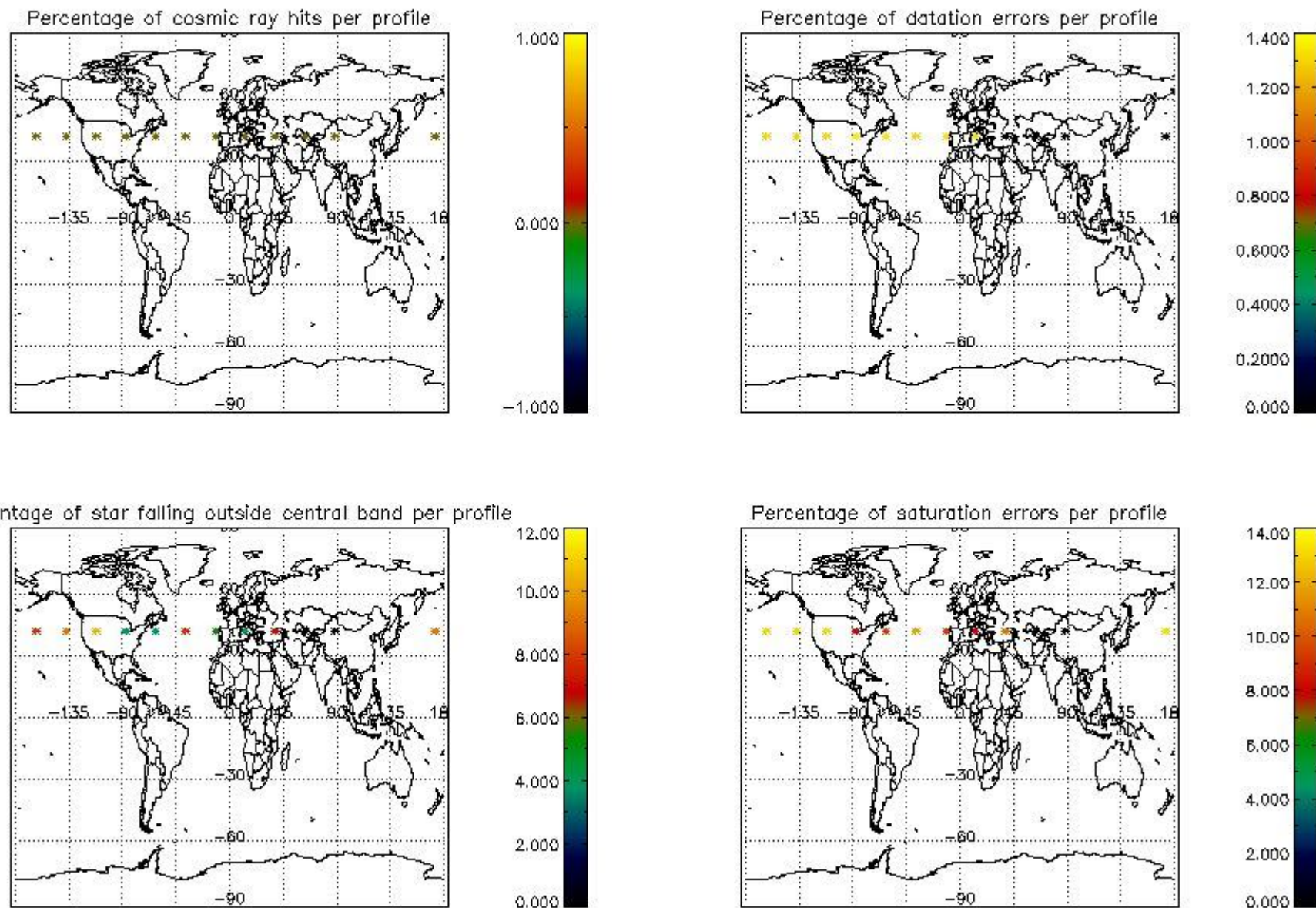
Percentage of star falling outside central band per profile



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

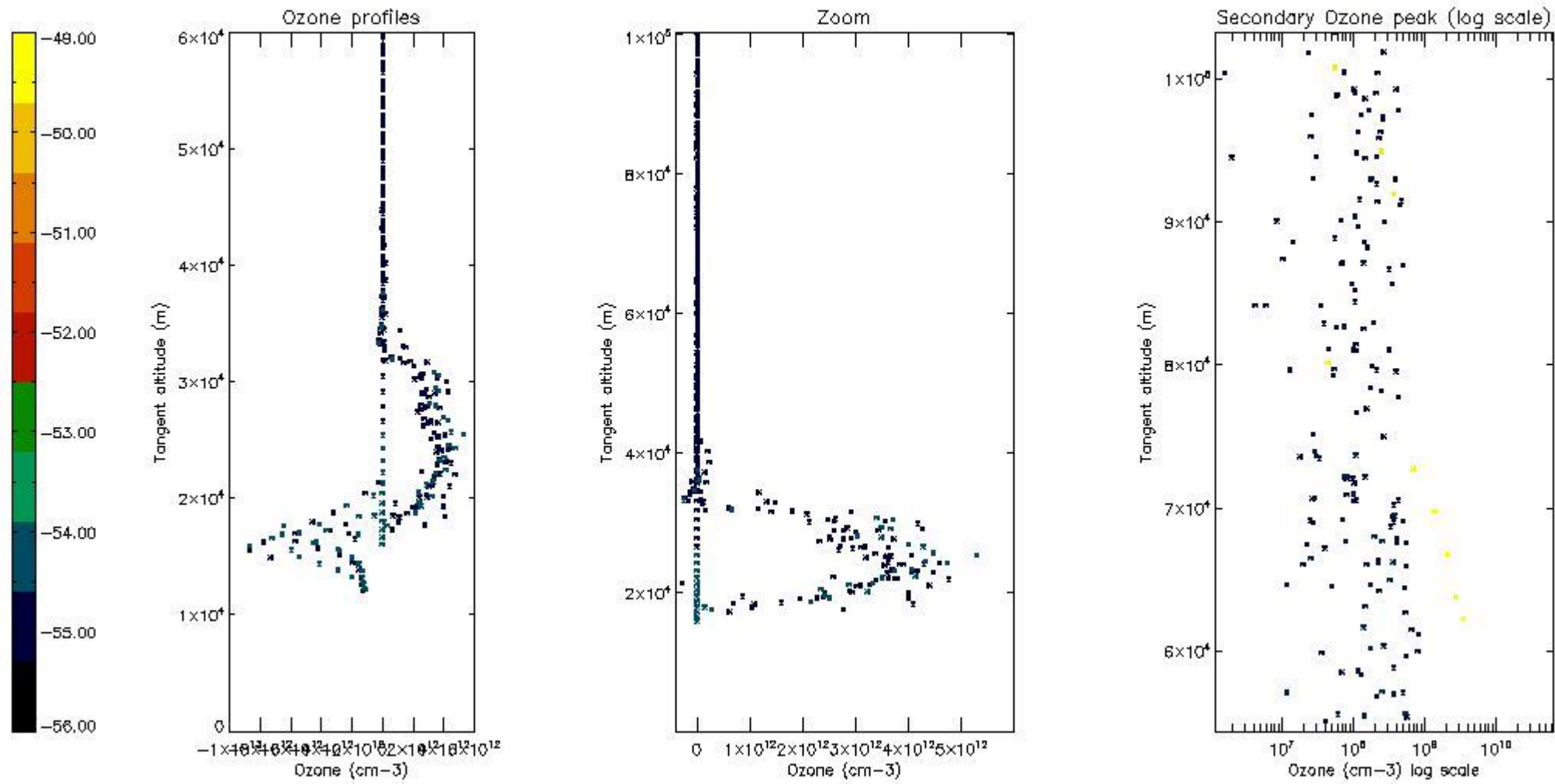
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	49
STD < 20	12

STD < 10	6
STD < 5	2

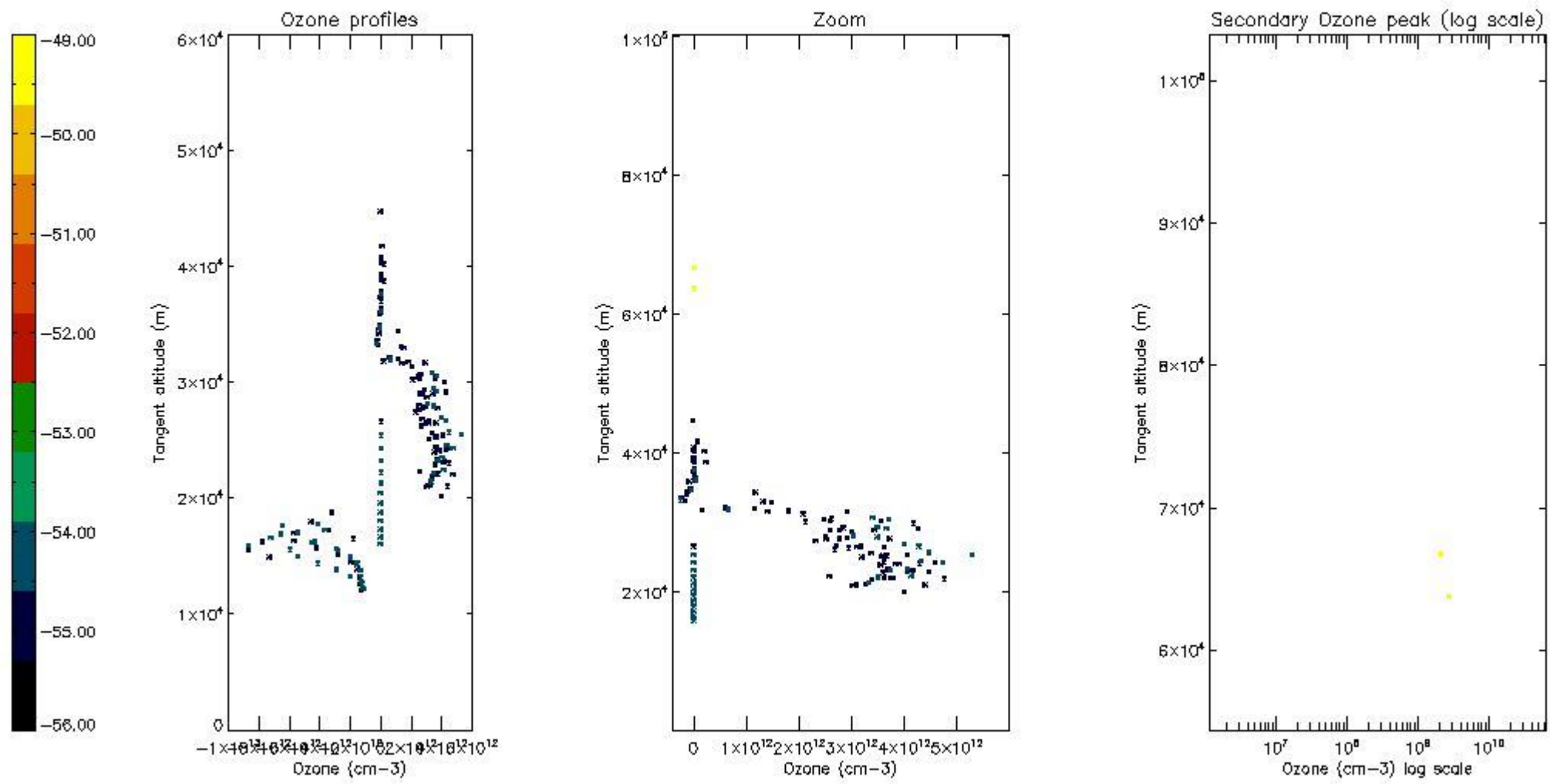
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



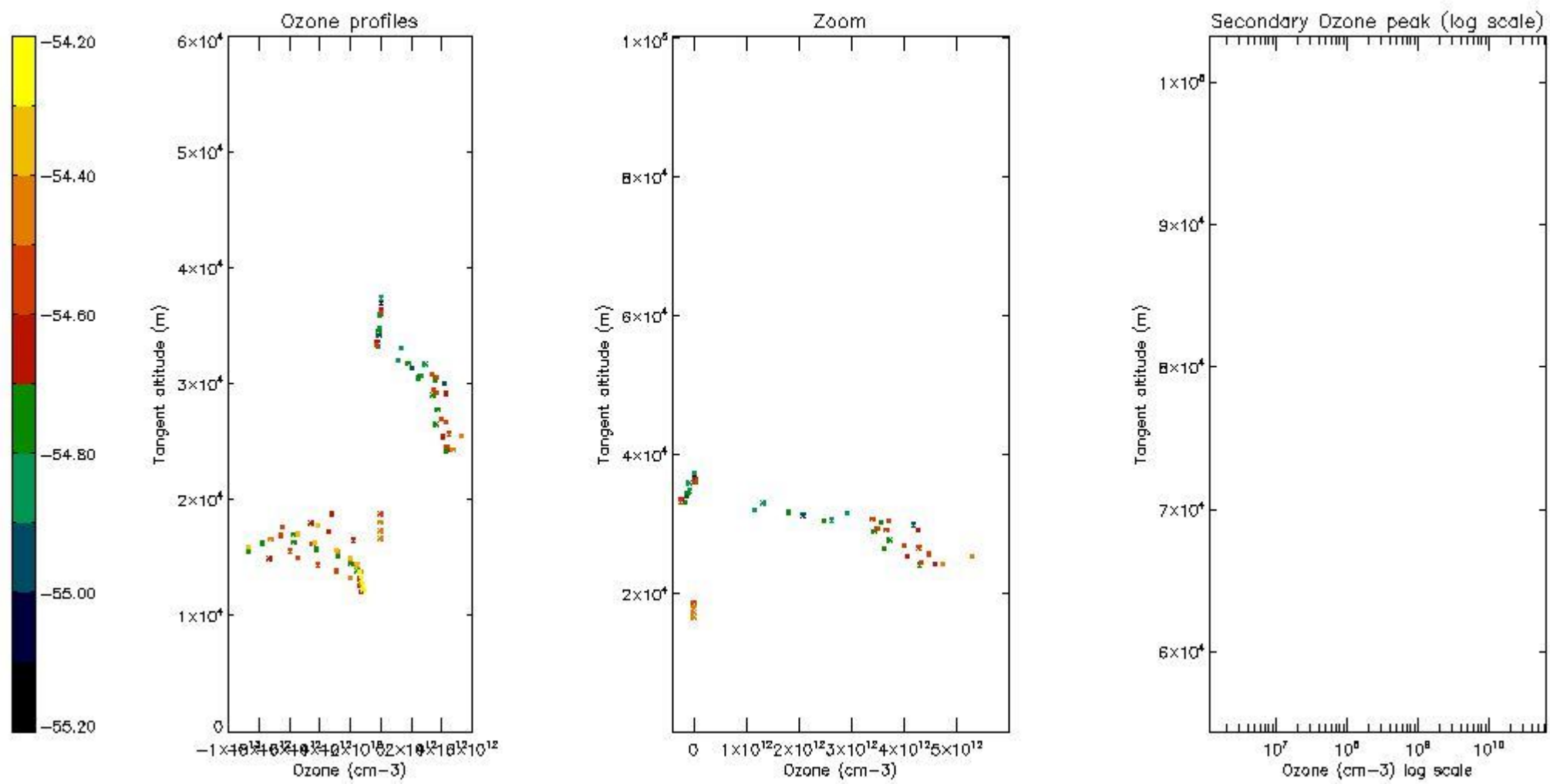
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



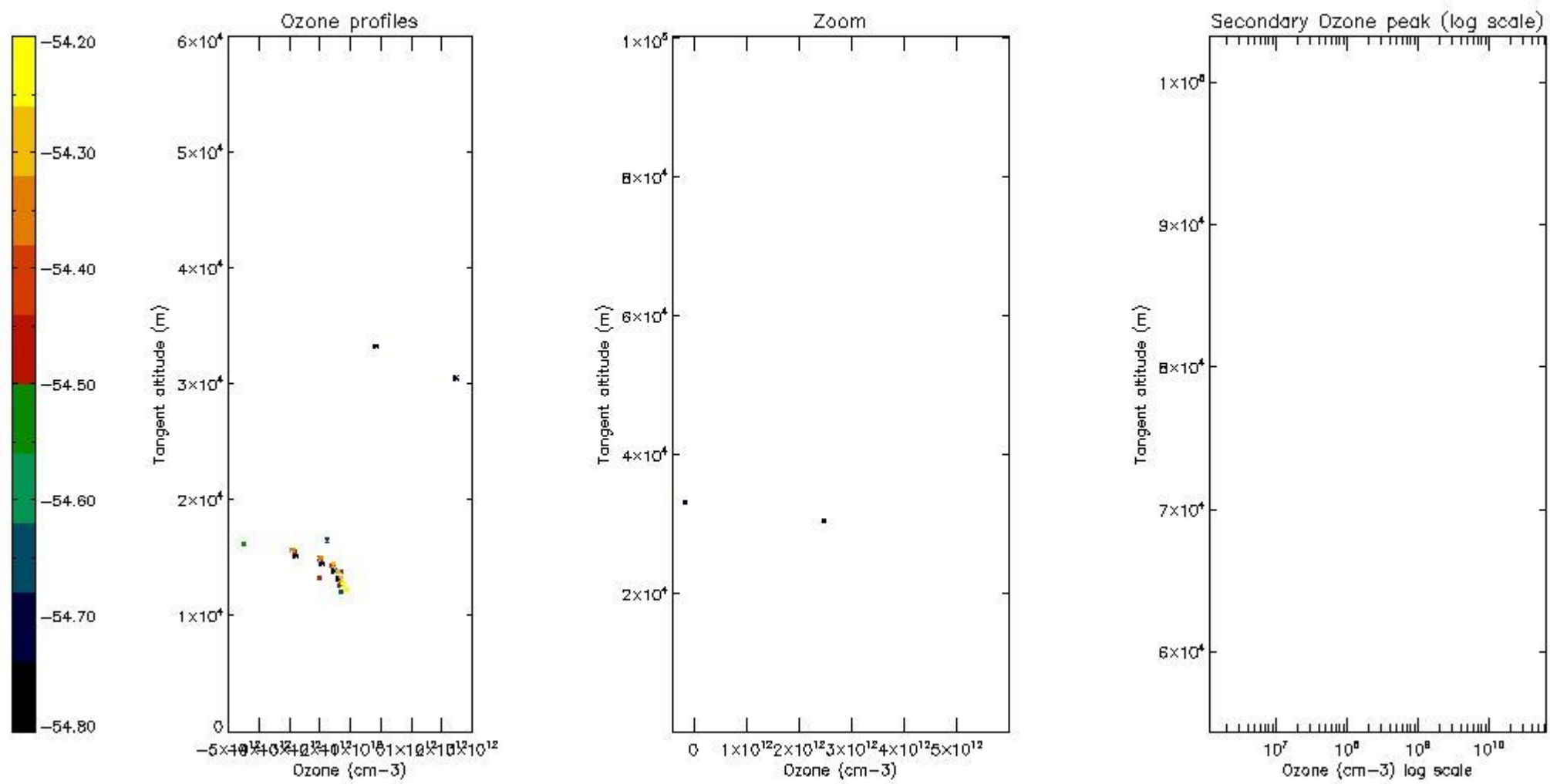
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



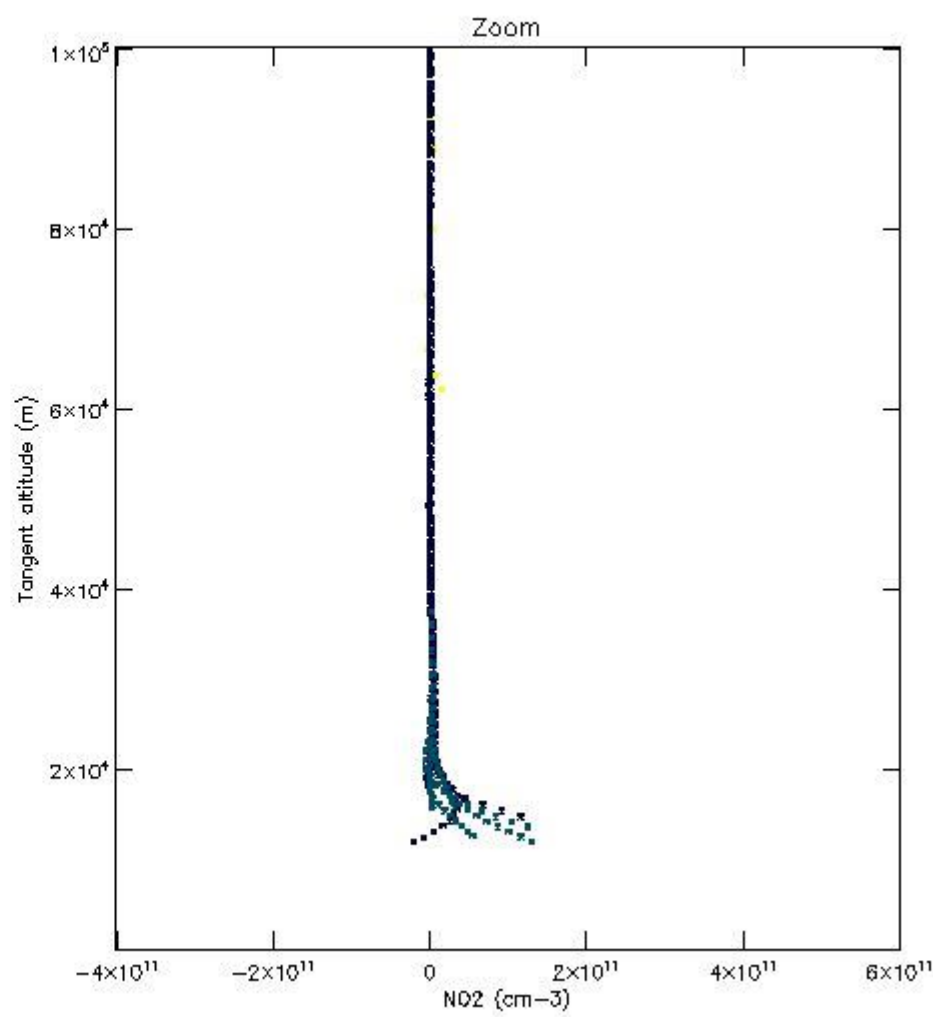
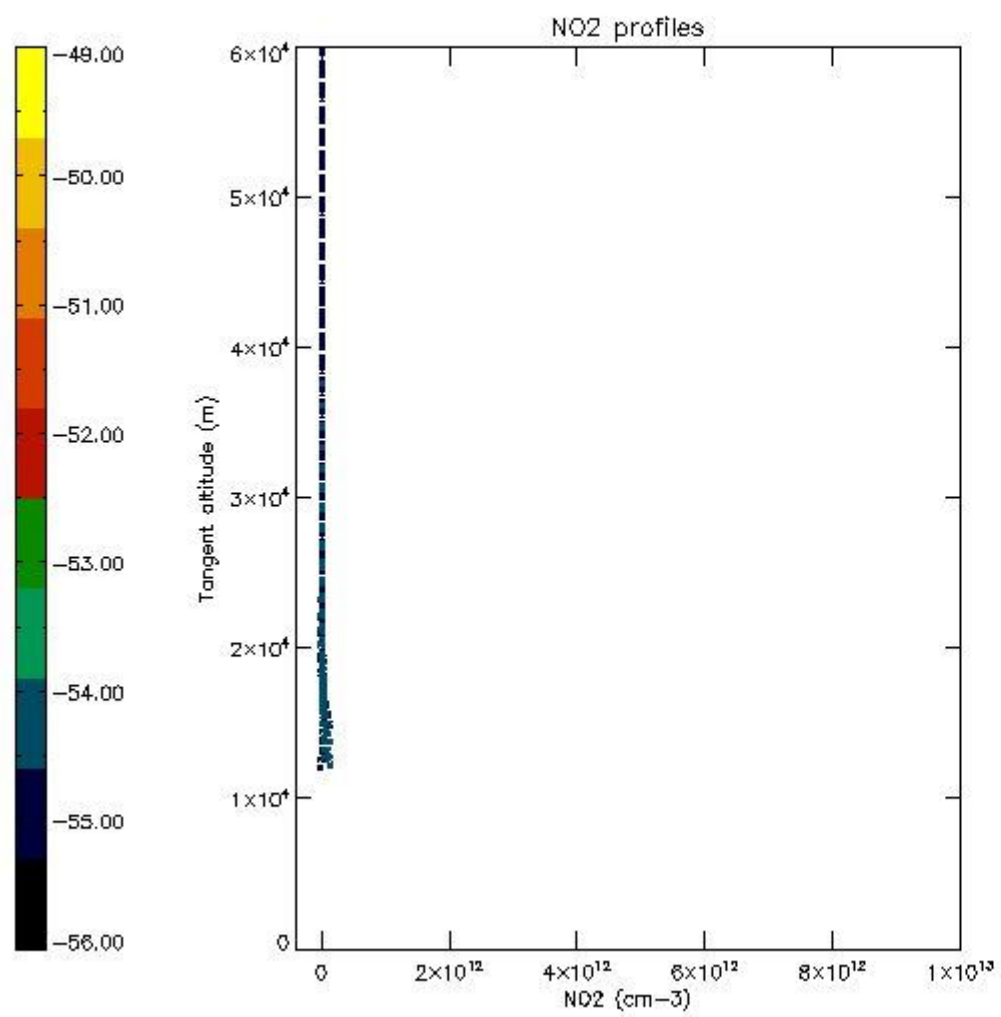
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



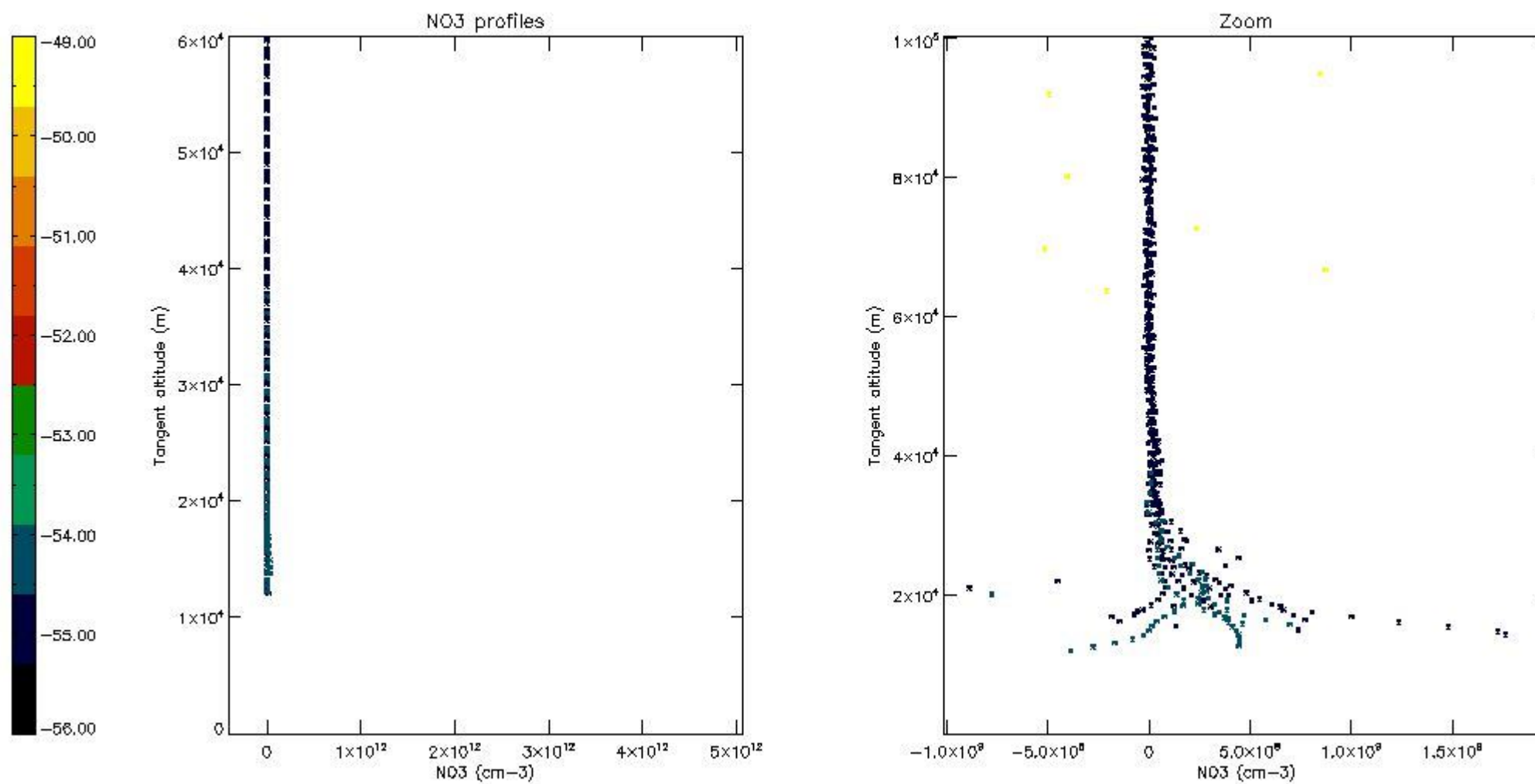
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	03-MAR-2012 02:16:37
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-MAR-2012 02:16:37
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-MAR-2012 02:16:37

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

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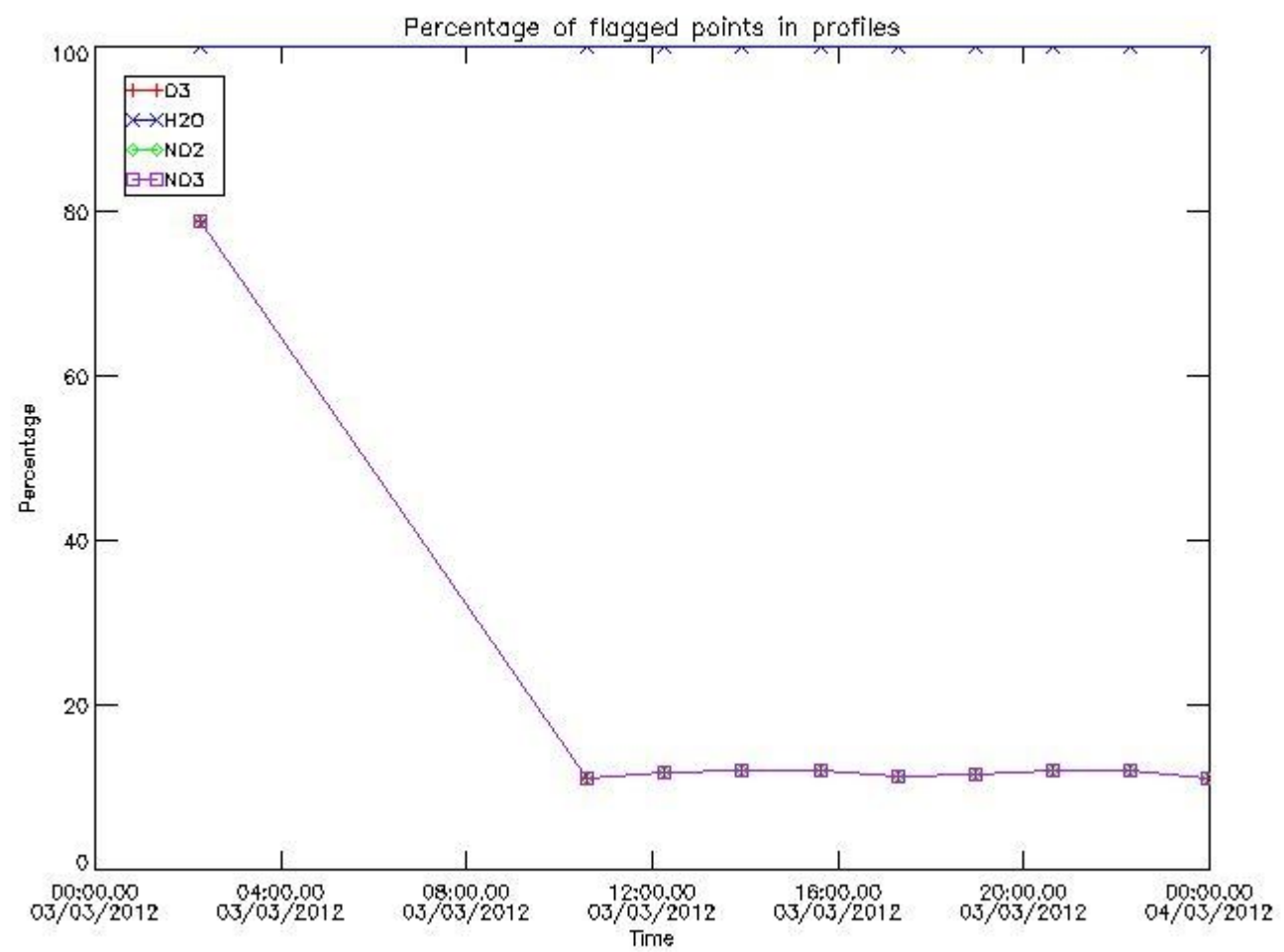
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3. Quality information per product

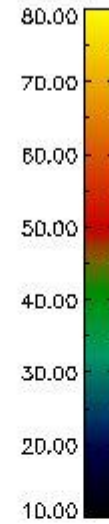
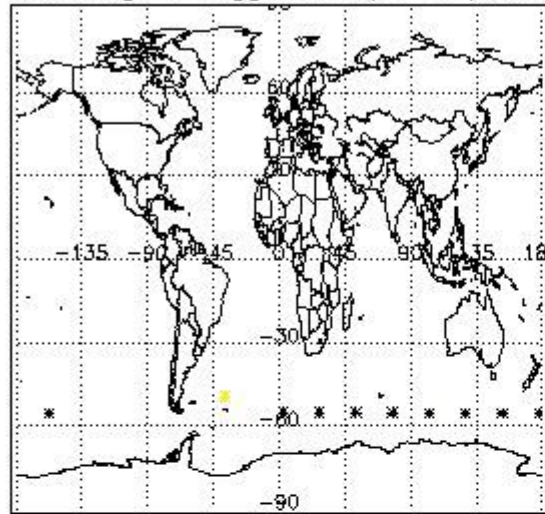
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

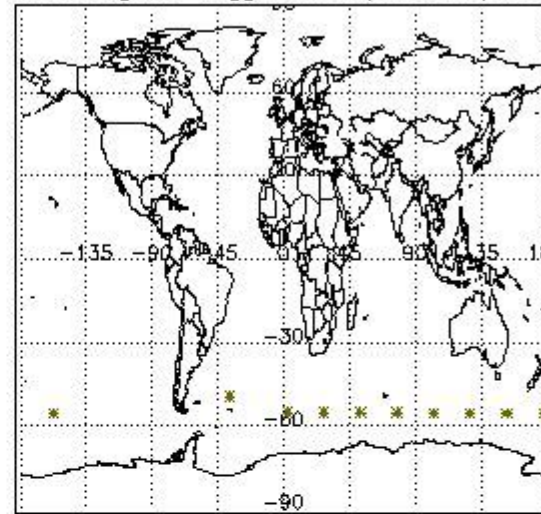


3.2 Plot quality information per product (world map)

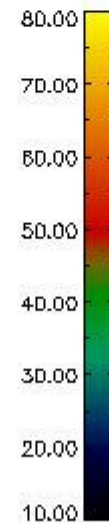
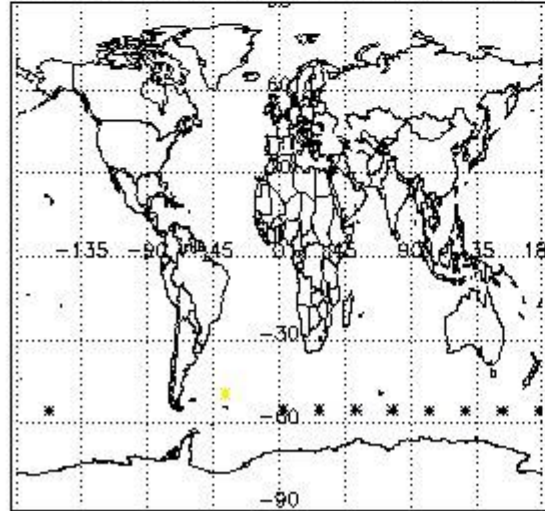
Percentage of flagged data per O3 profile



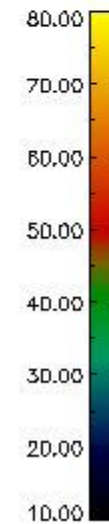
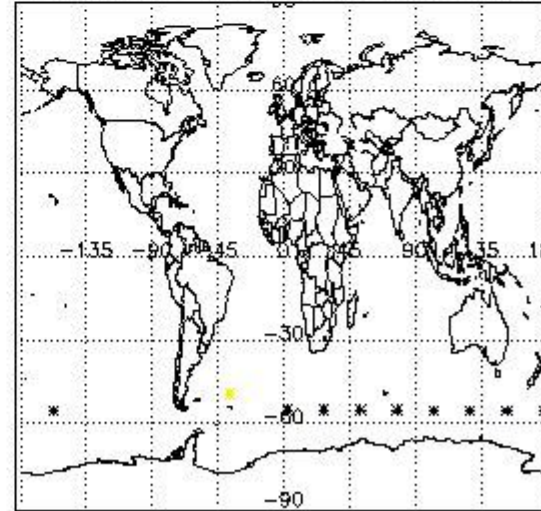
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

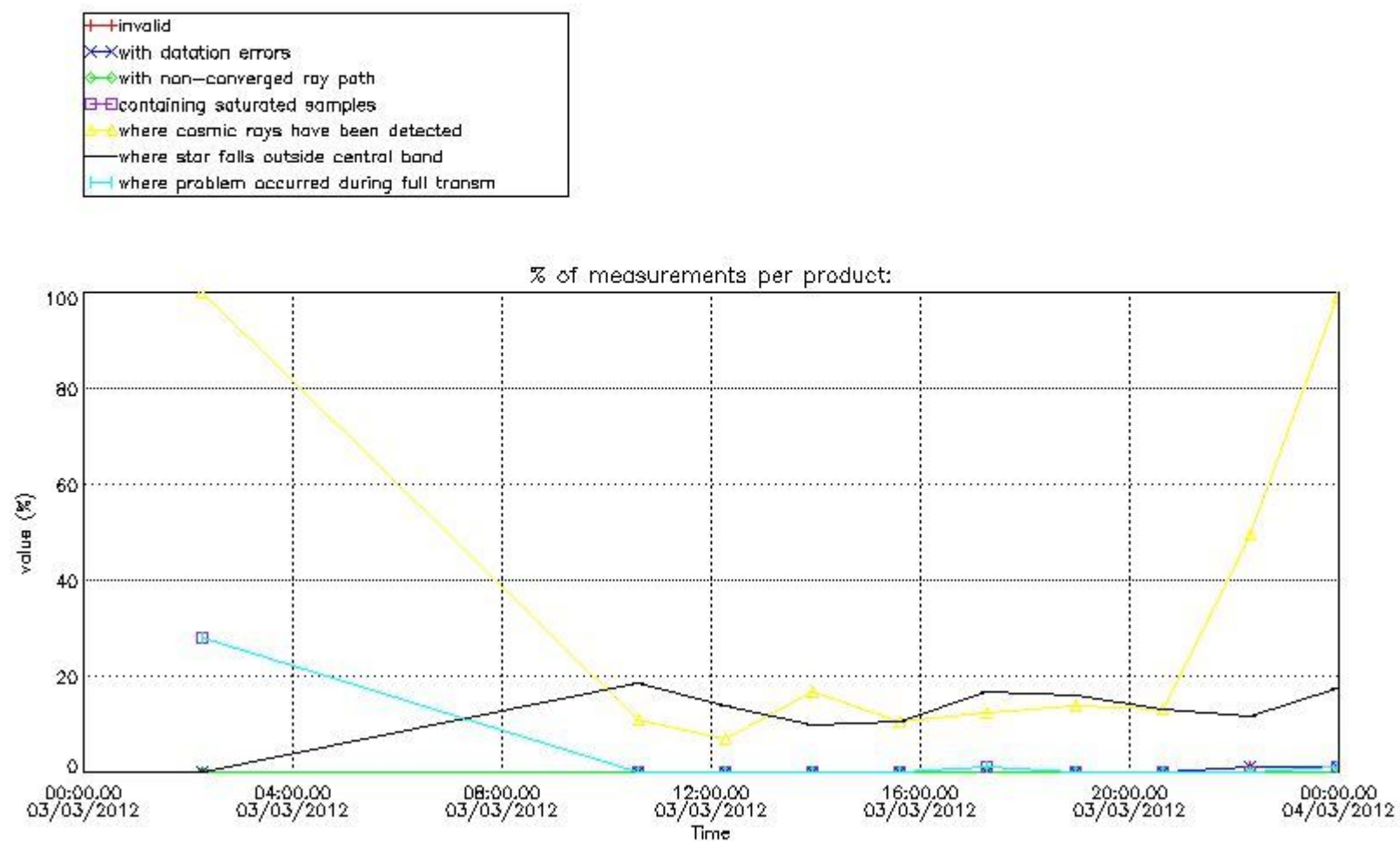


4. Level 1 quality information per product

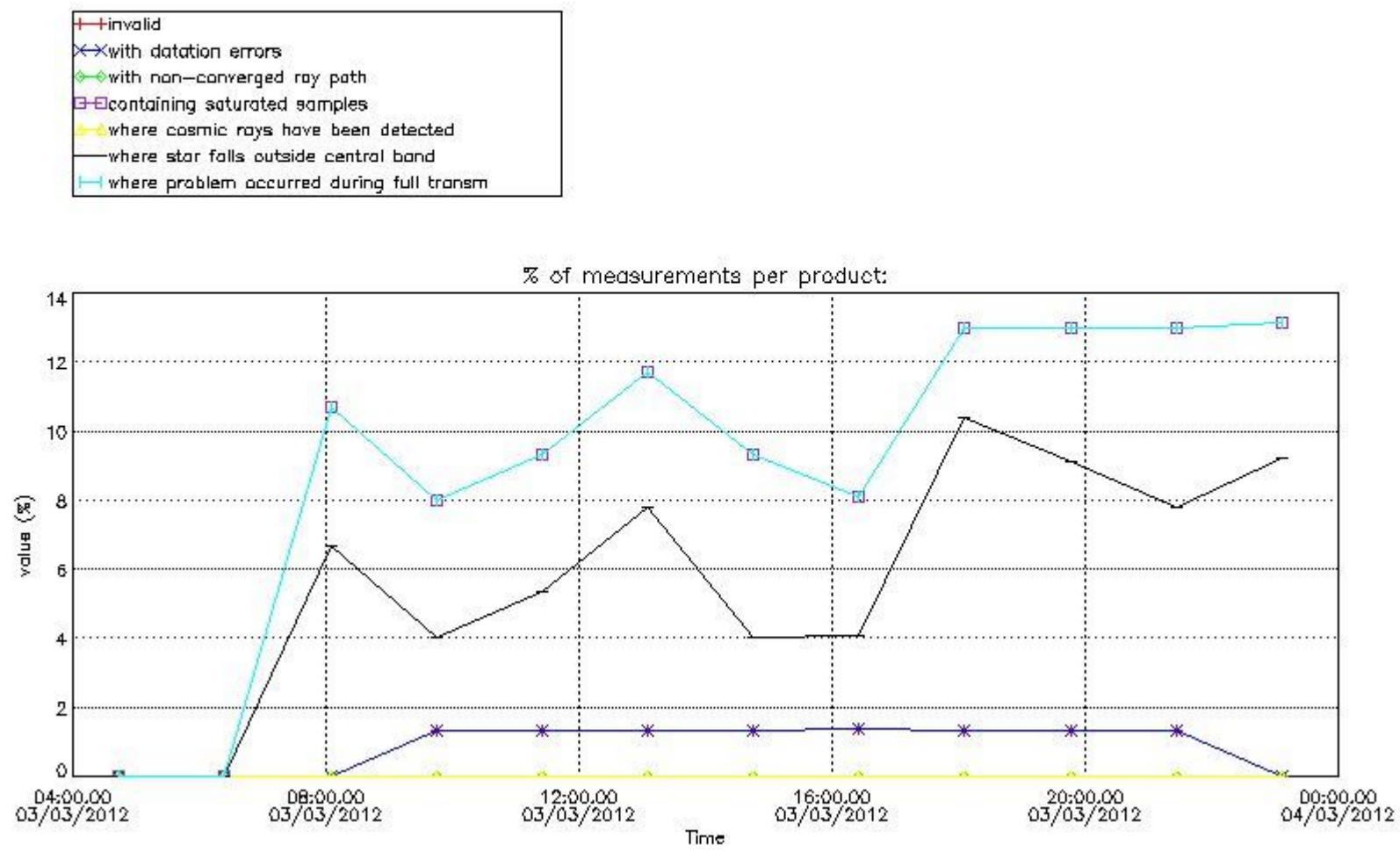
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



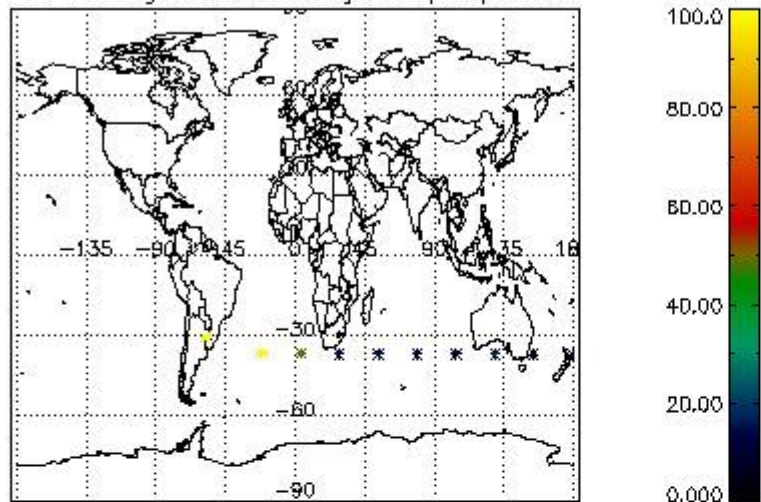
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



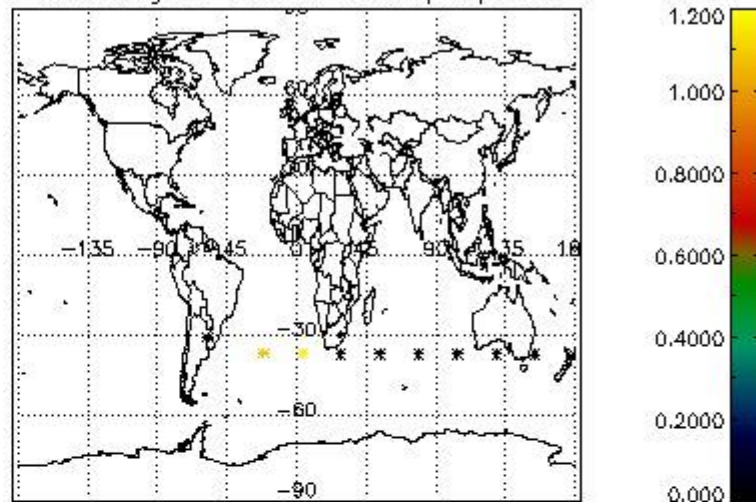
4.2 Plot quality information per product coming from level 1b processing (world map)

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

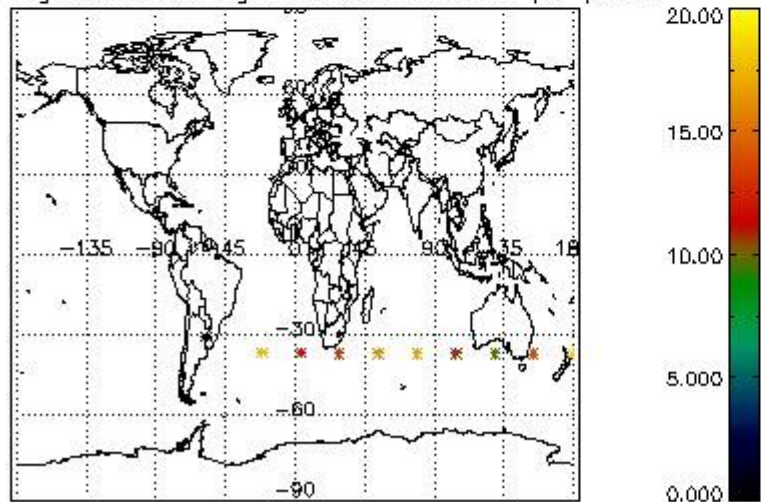
Percentage of cosmic ray hits per profile



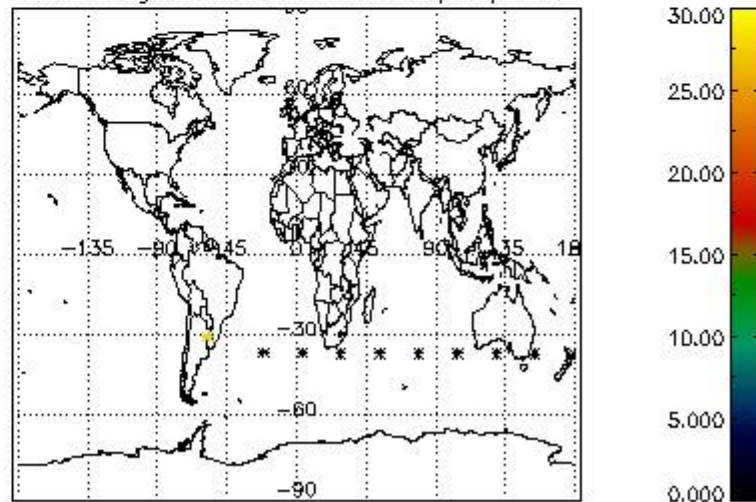
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

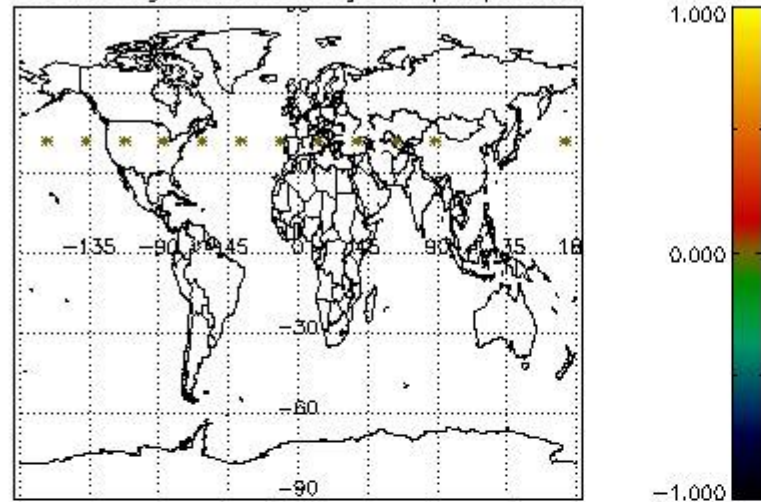


Percentage of saturation errors per profile

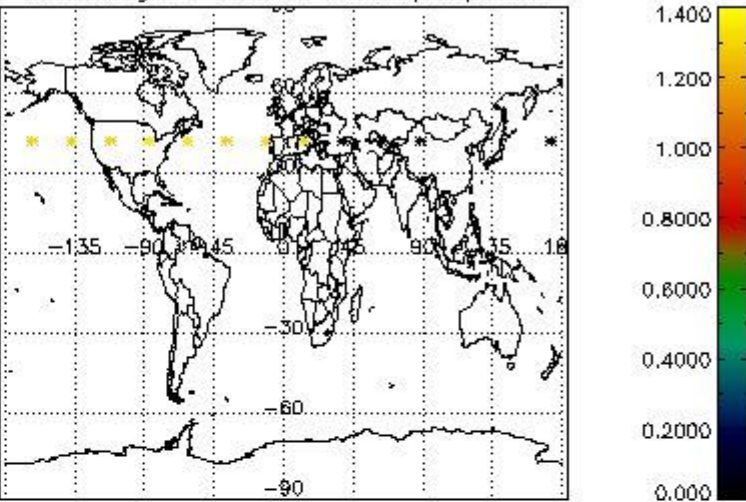


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

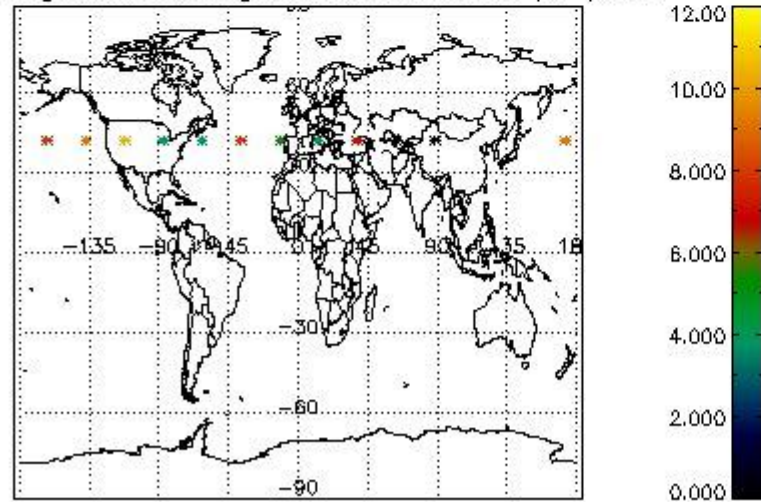
Percentage of cosmic ray hits per profile



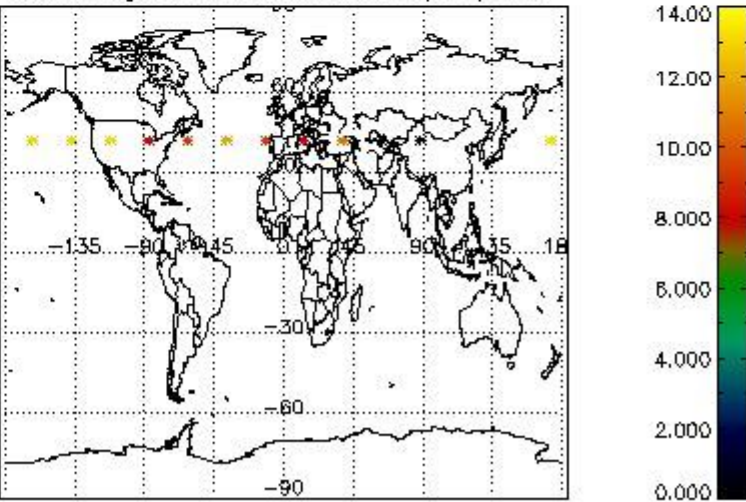
Percentage of datation errors per profile



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

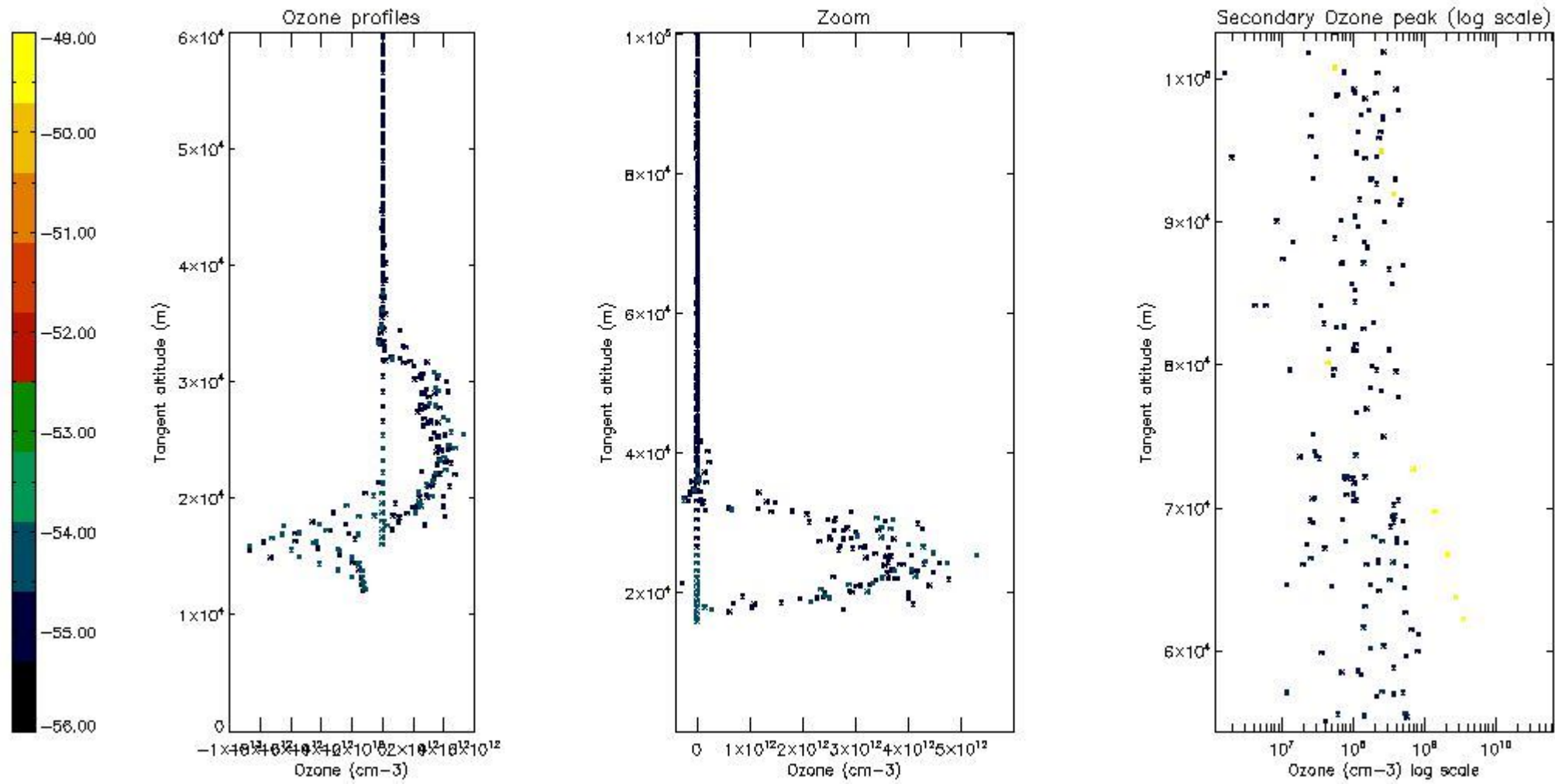
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	49
STD < 20	12

STD < 10	6
STD < 5	2

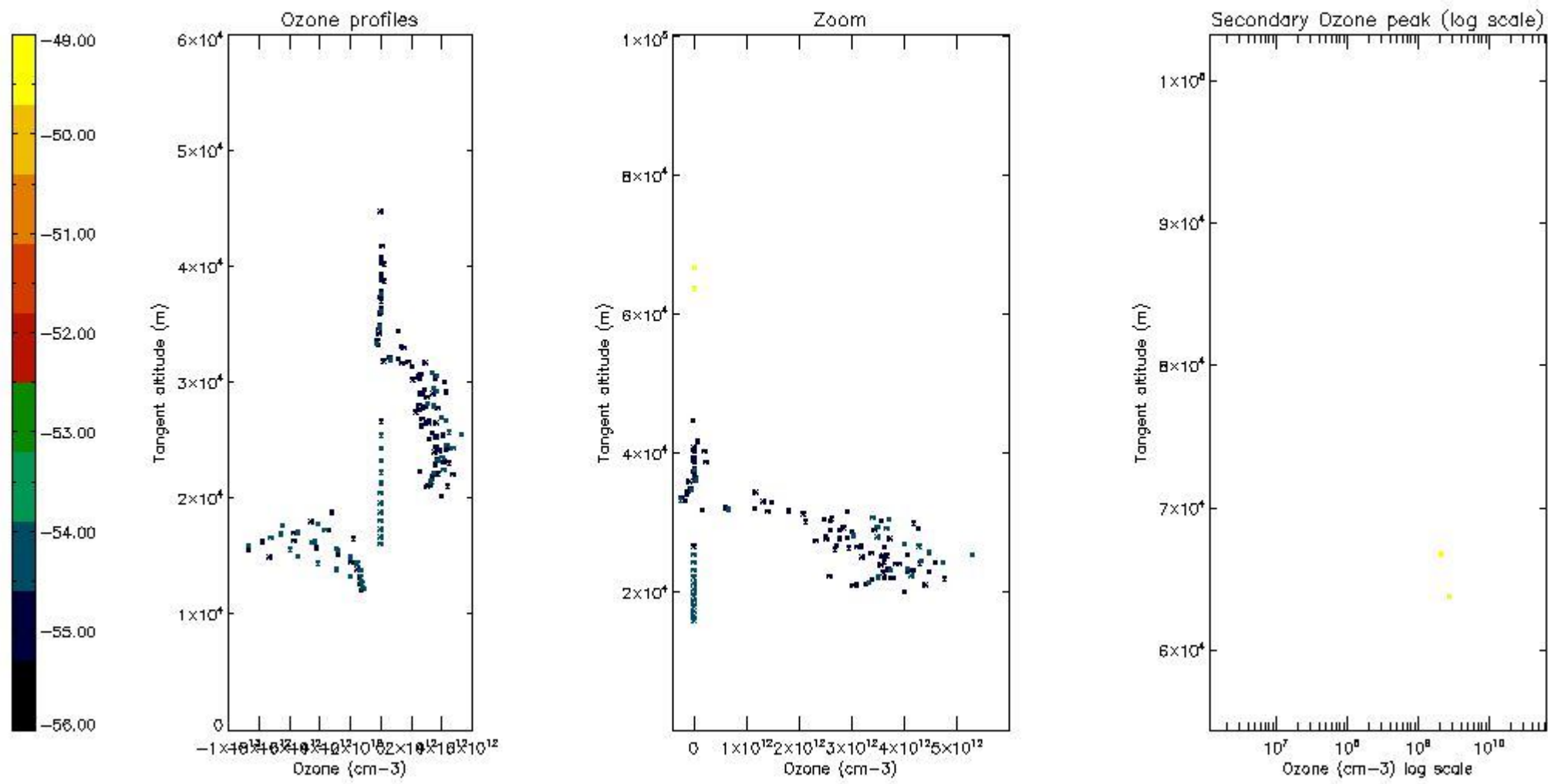
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



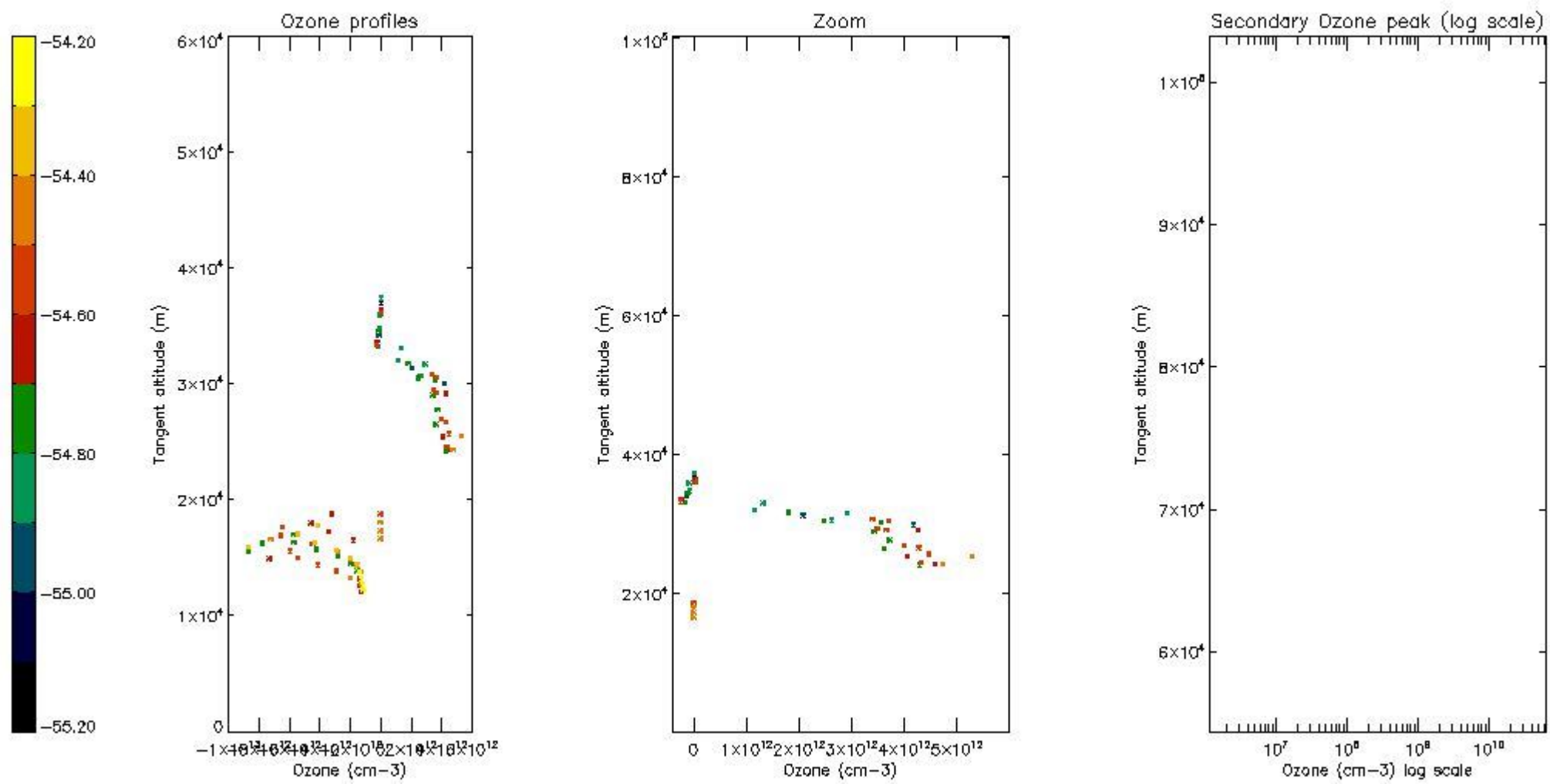
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



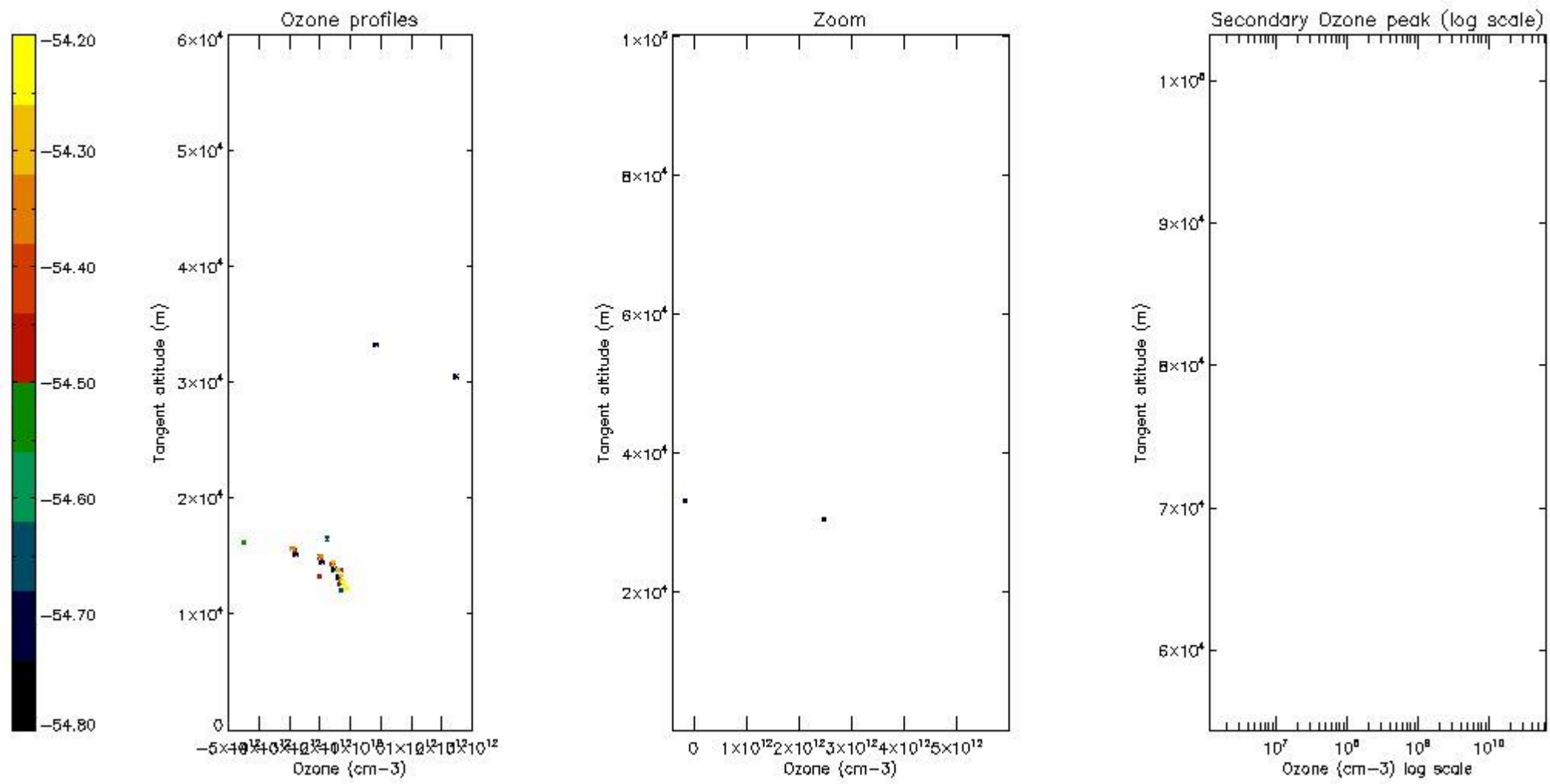
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



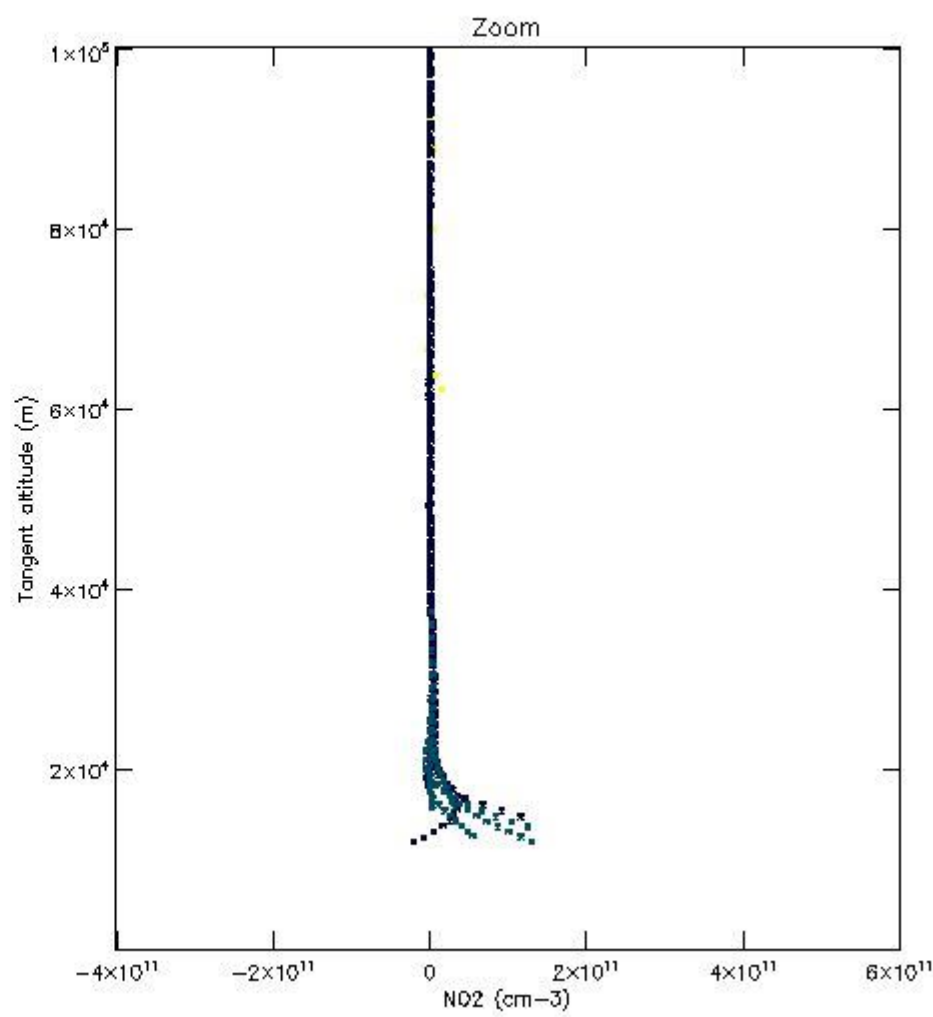
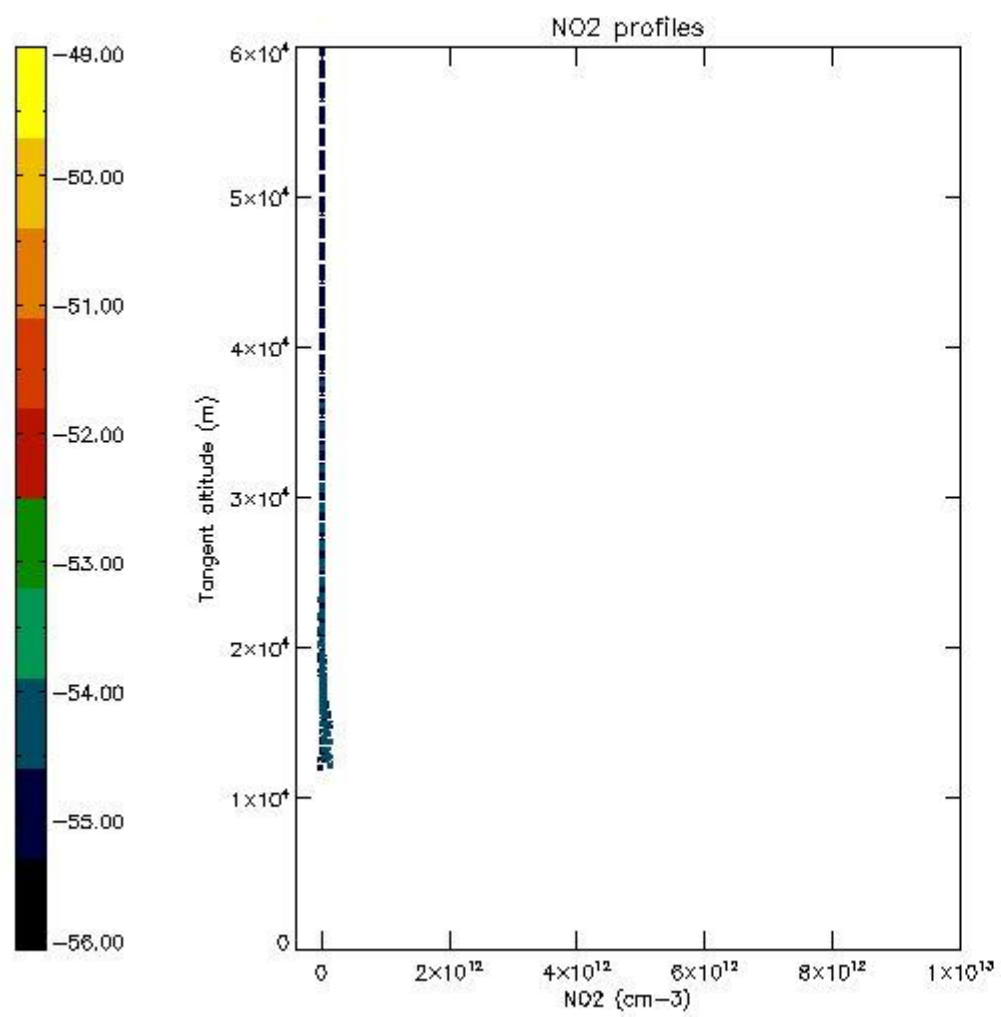
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



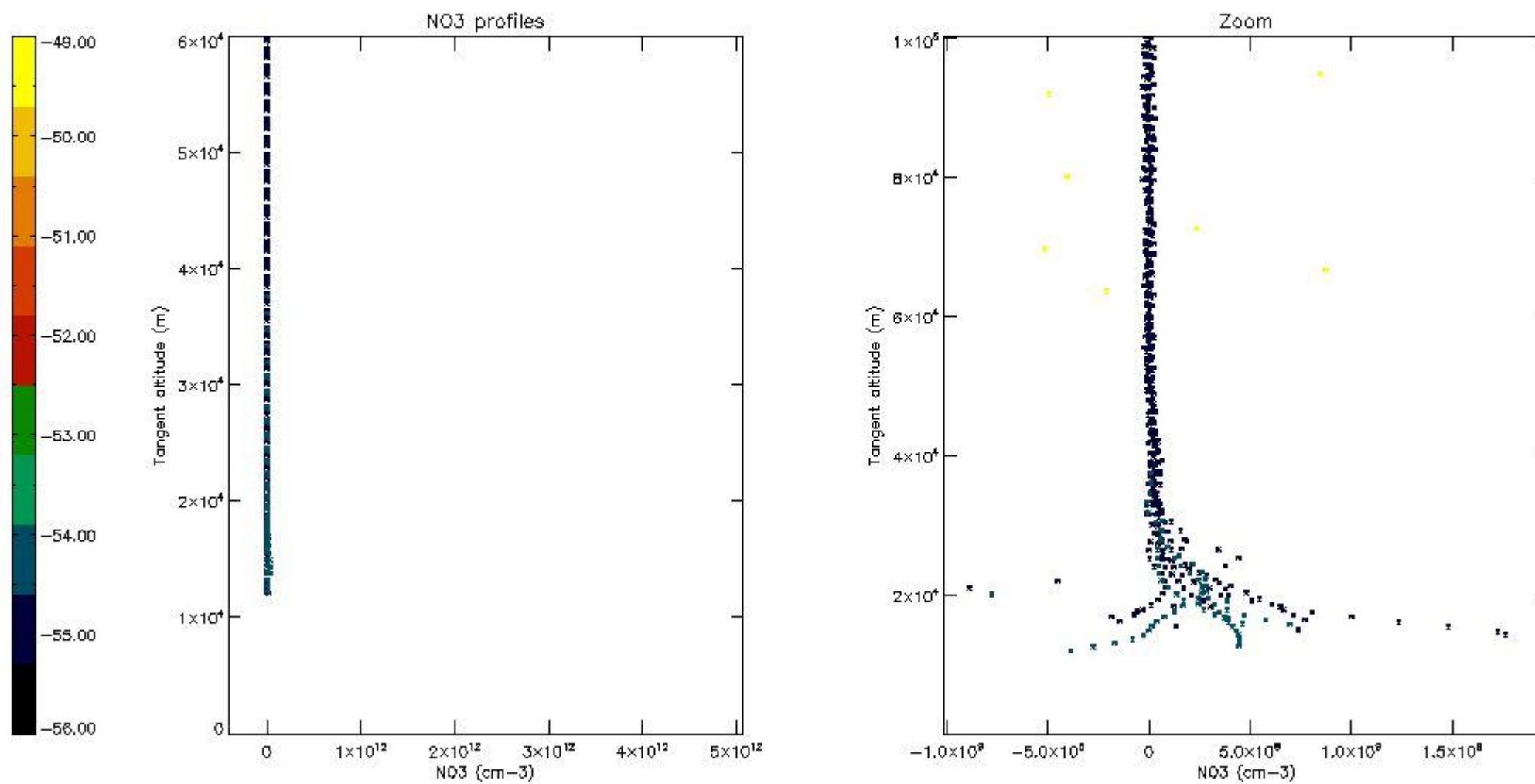
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

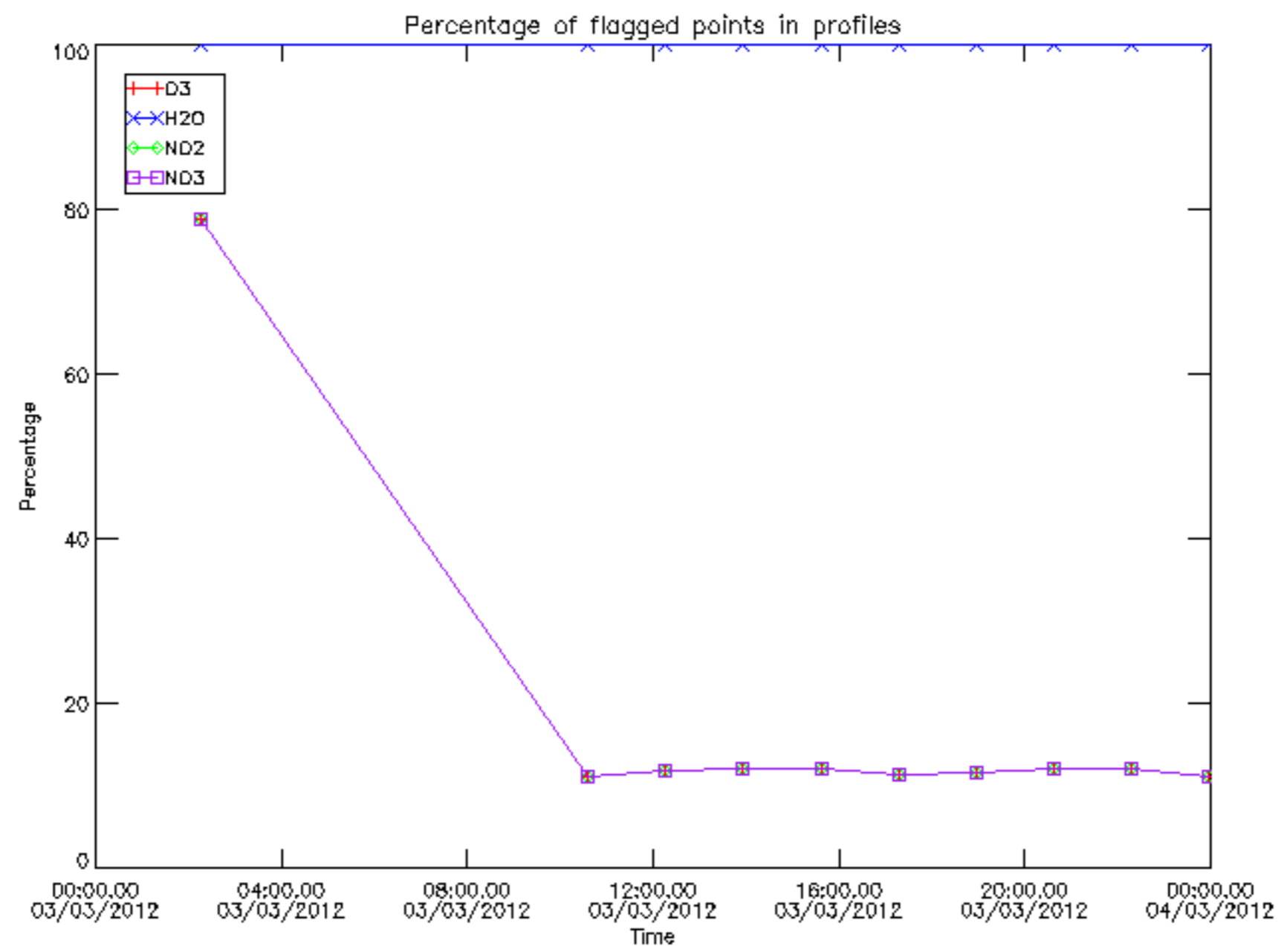
The colorbar represents the latitude.



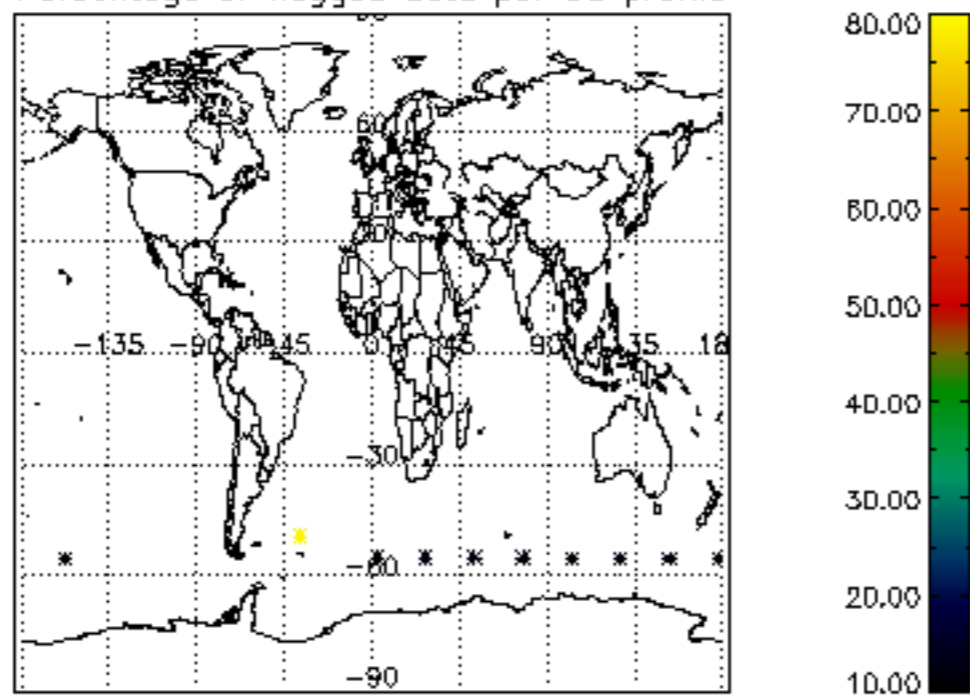
6. Auxiliary Data Files used for the production reported in section 2

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.

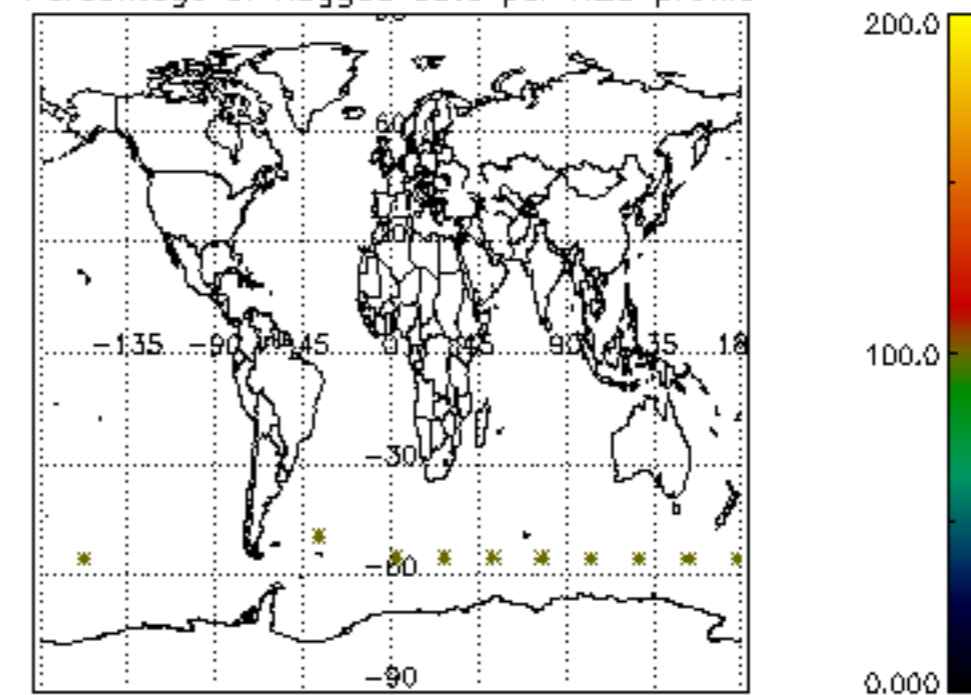
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	03-MAR-2012 02:16:37
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-MAR-2012 02:16:37
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-MAR-2012 02:16:37



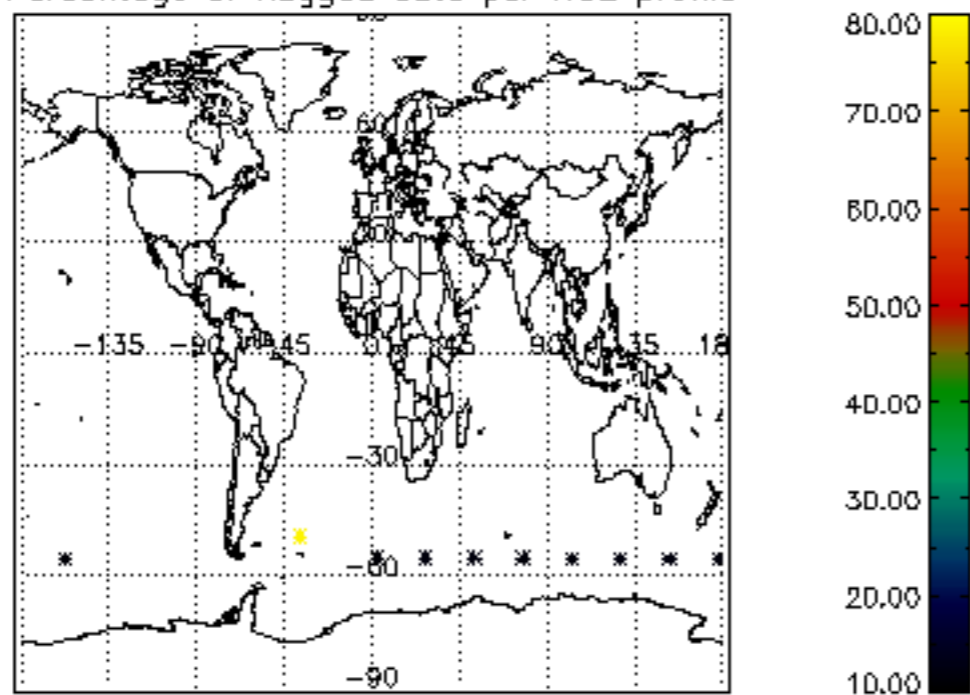
Percentage of flagged data per D3 profile



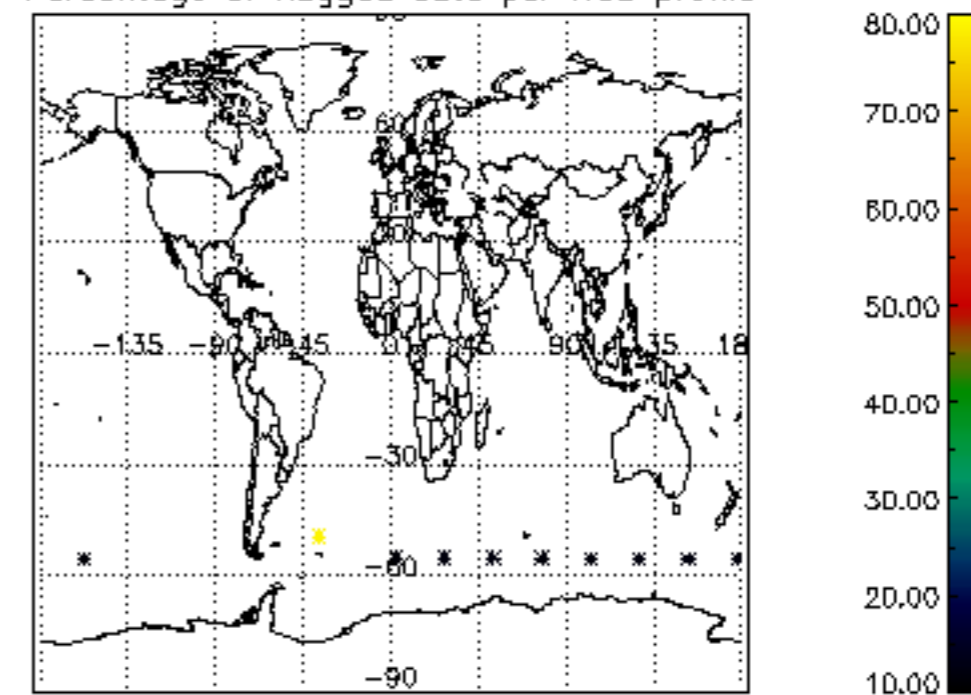
Percentage of flagged data per H2O profile

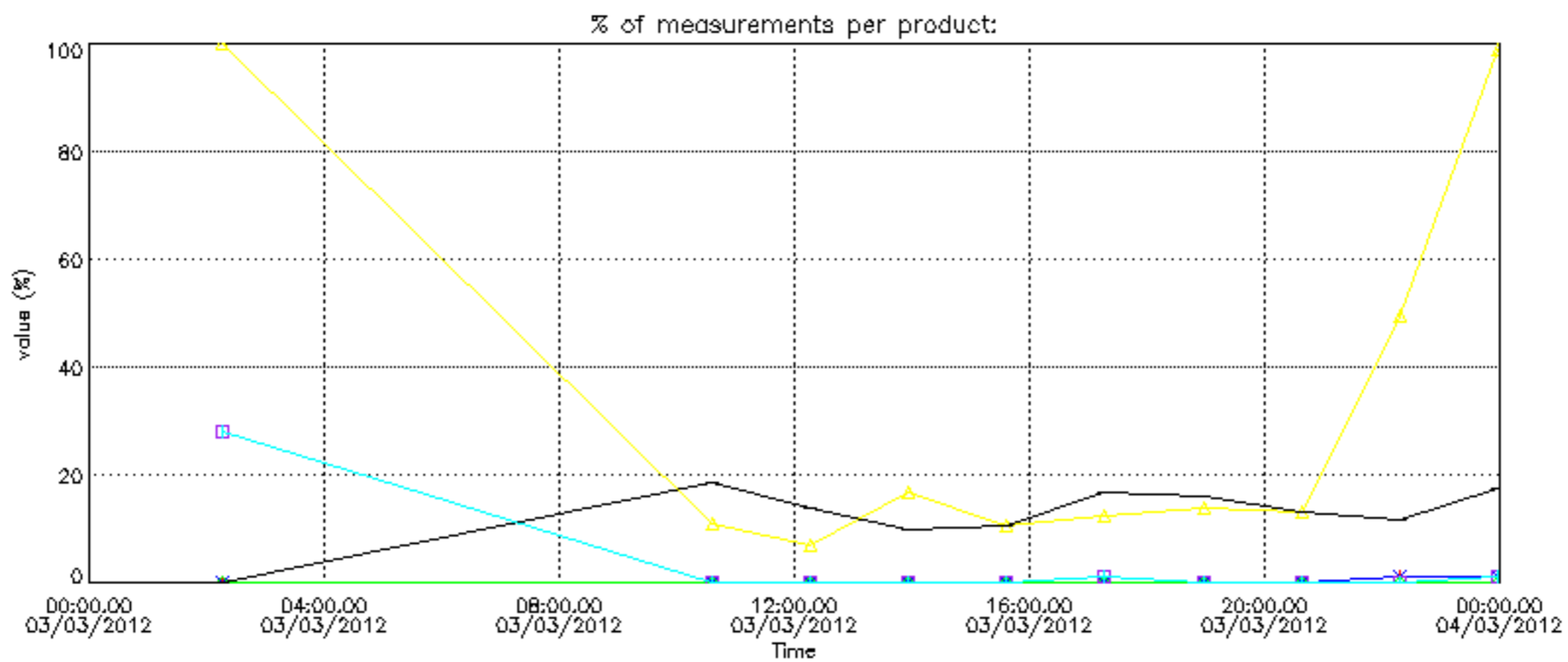


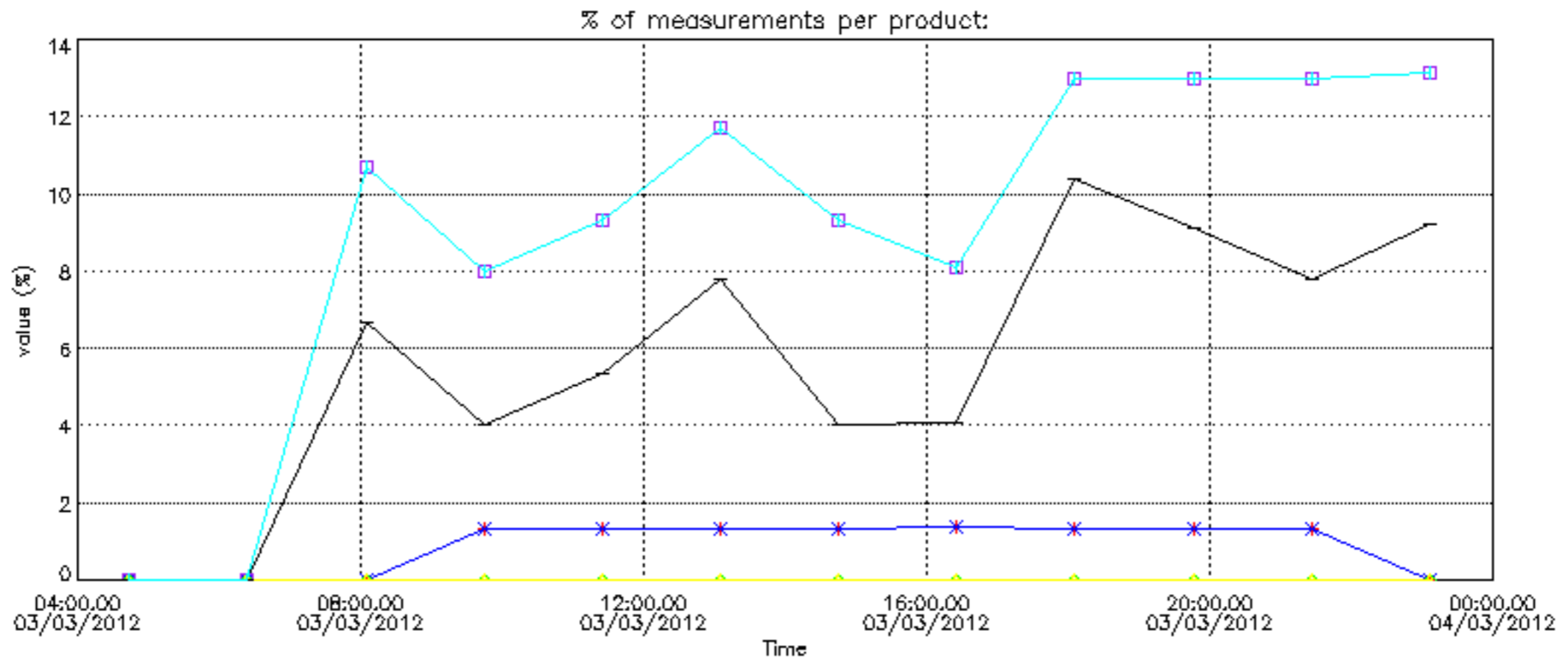
Percentage of flagged data per NO2 profile



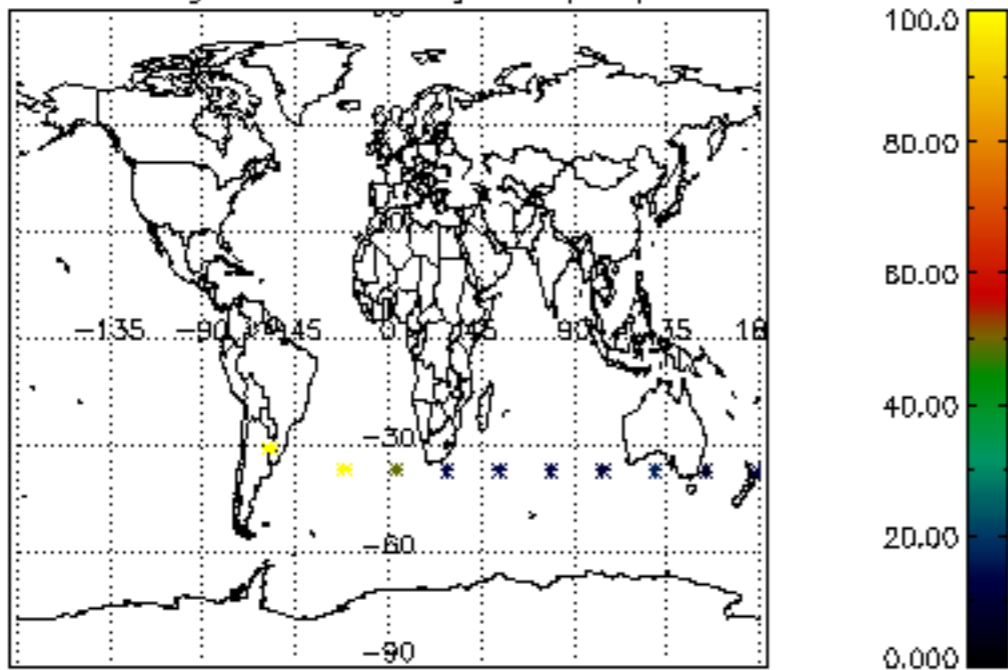
Percentage of flagged data per NO3 profile



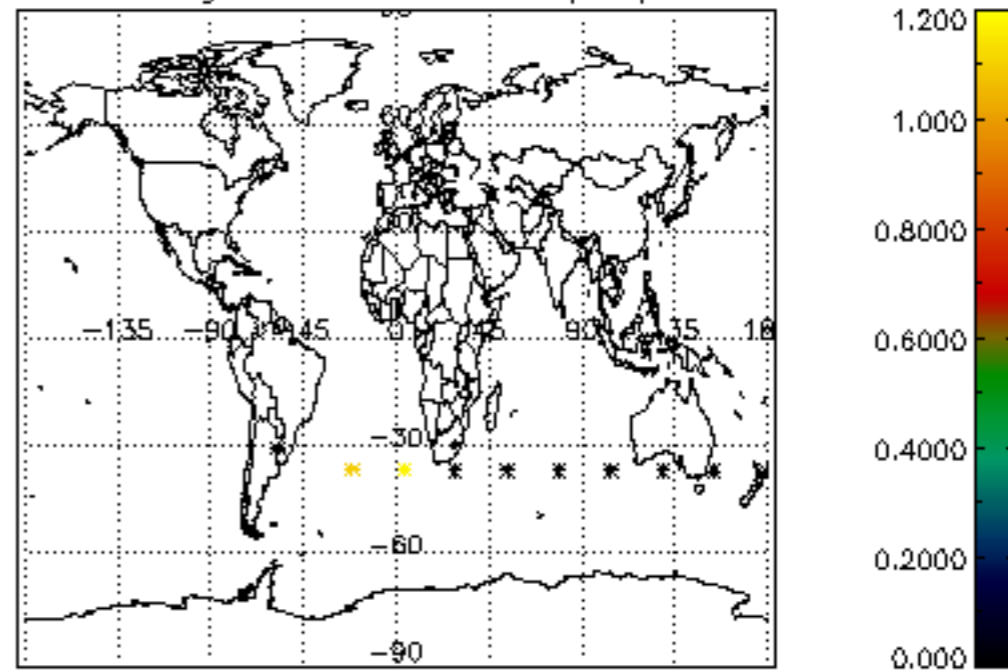




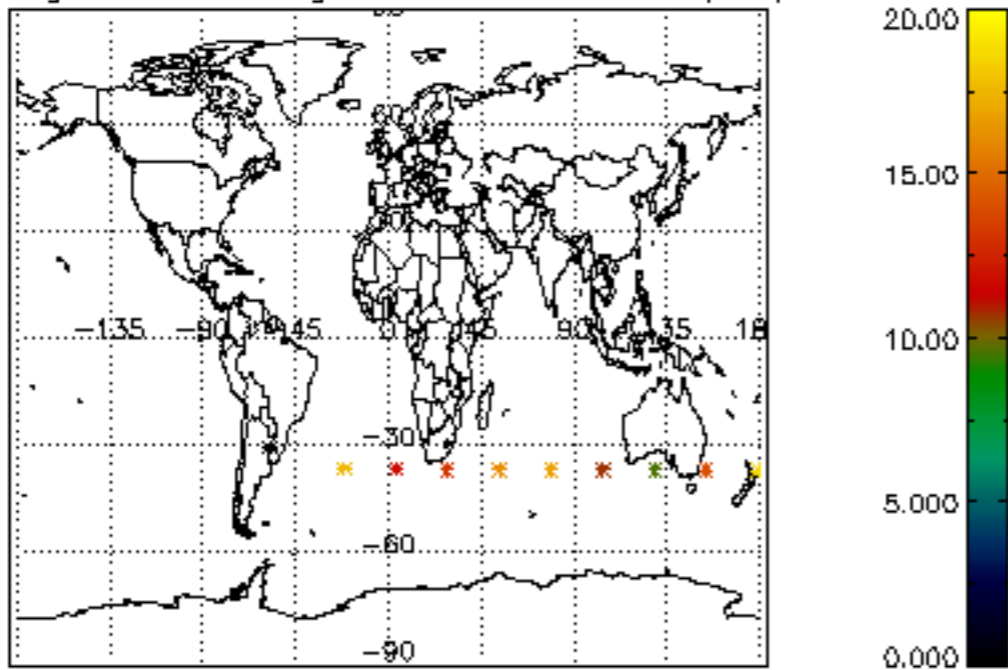
Percentage of cosmic ray hits per profile



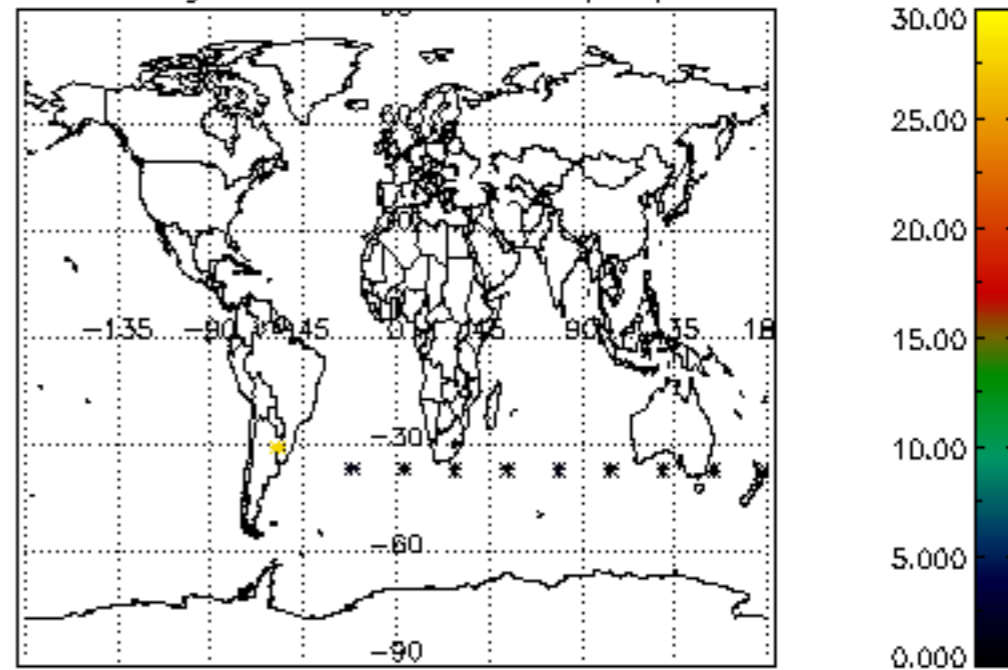
Percentage of datation errors per profile



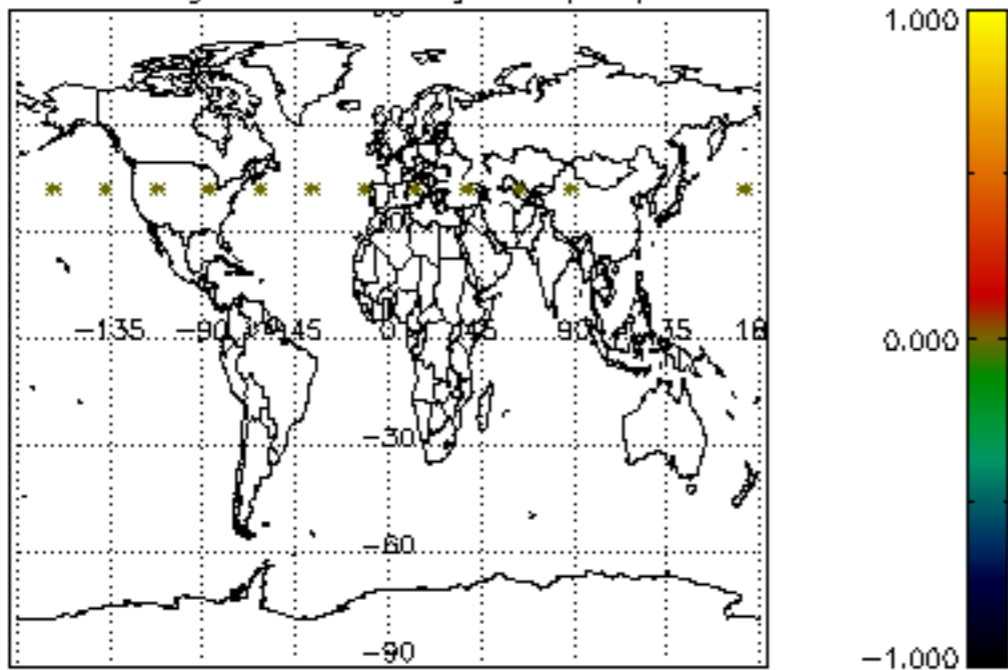
Percentage of star falling outside central band per profile



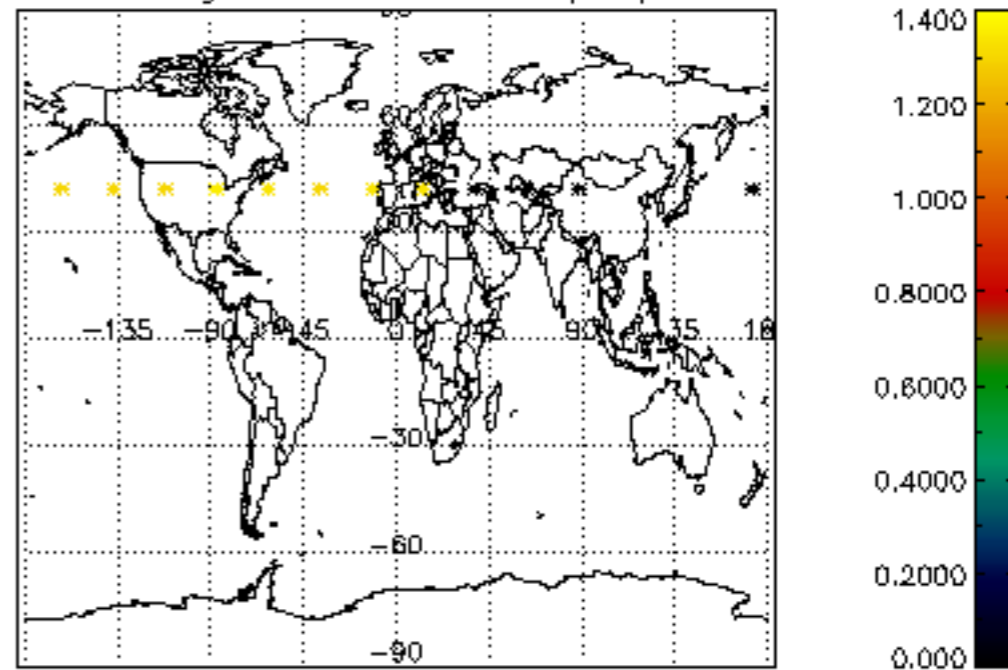
Percentage of saturation errors per profile



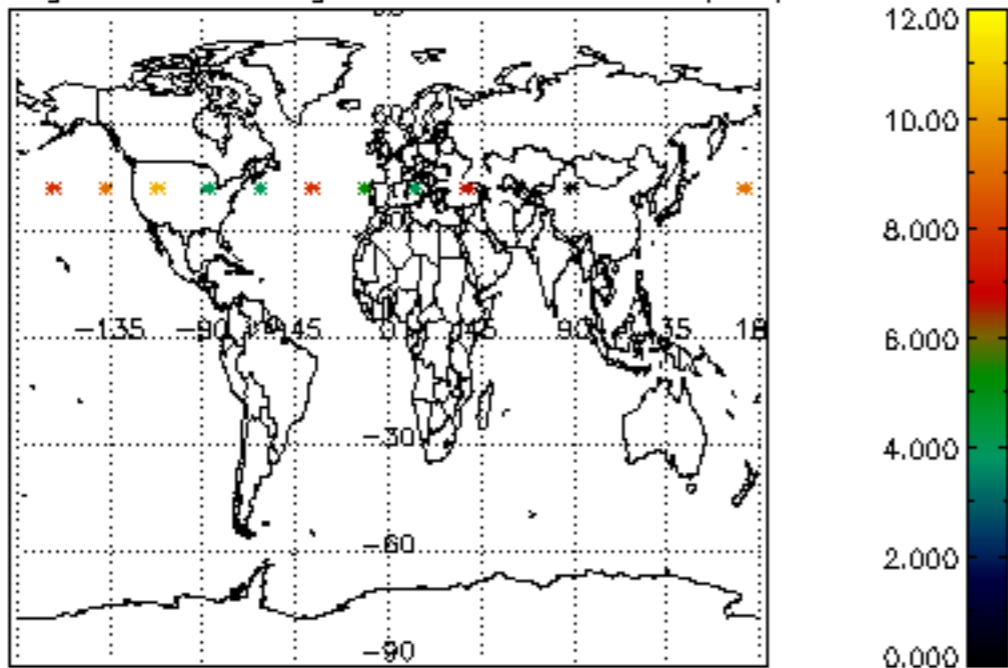
Percentage of cosmic ray hits per profile



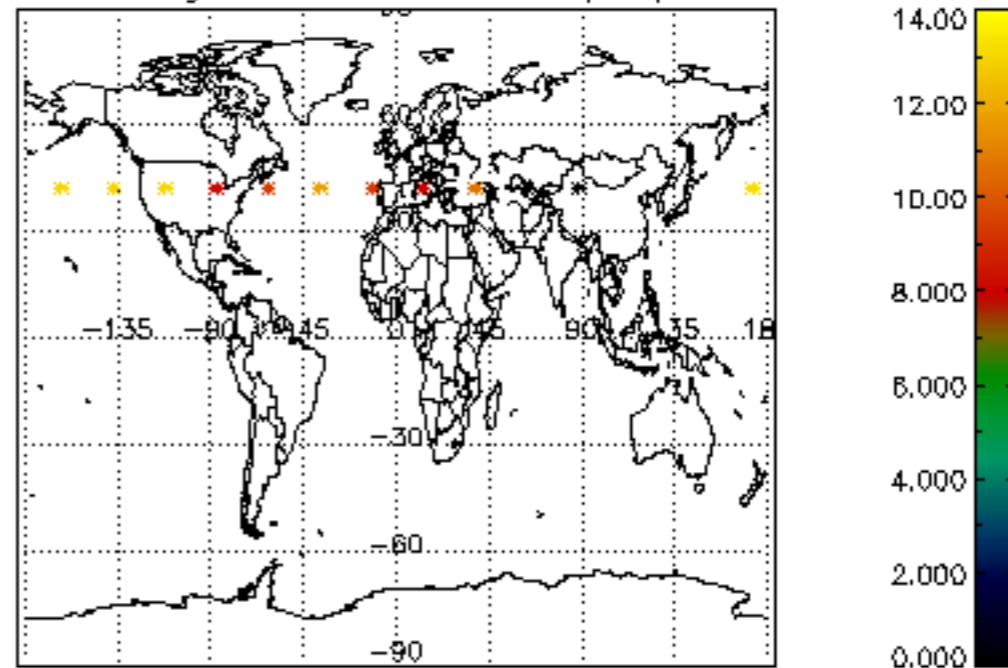
Percentage of datation errors per profile

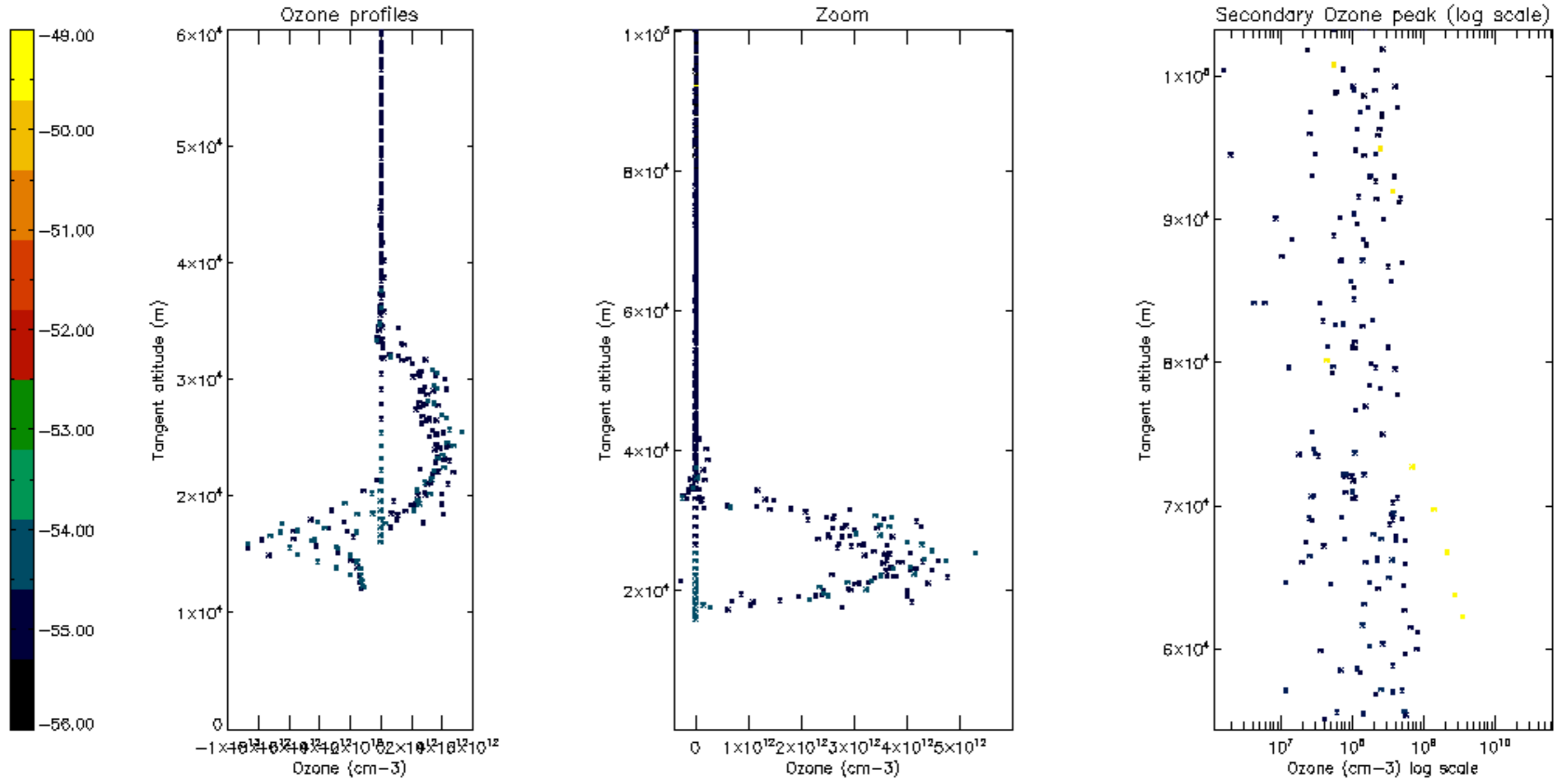


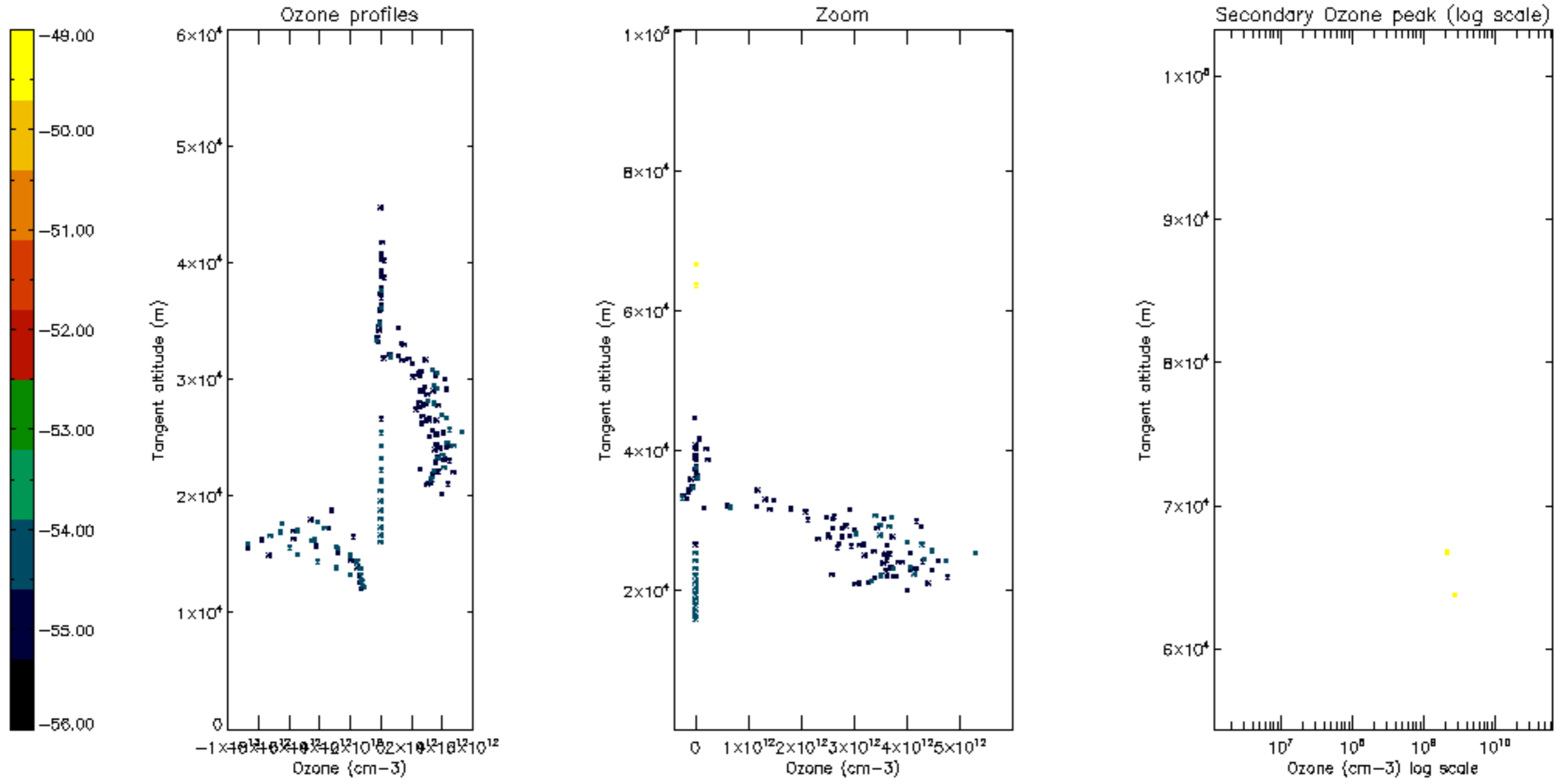
Percentage of star falling outside central band per profile

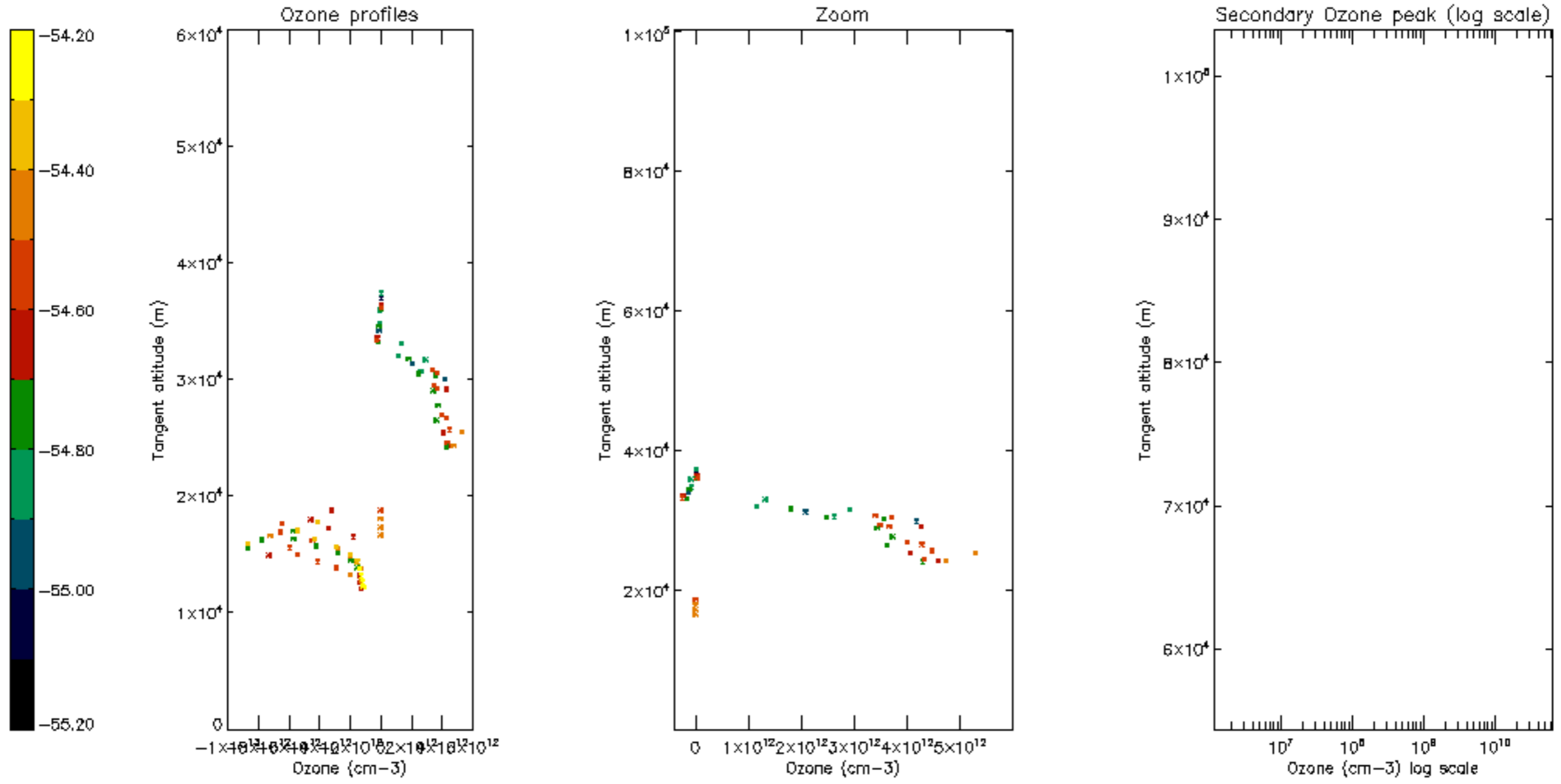


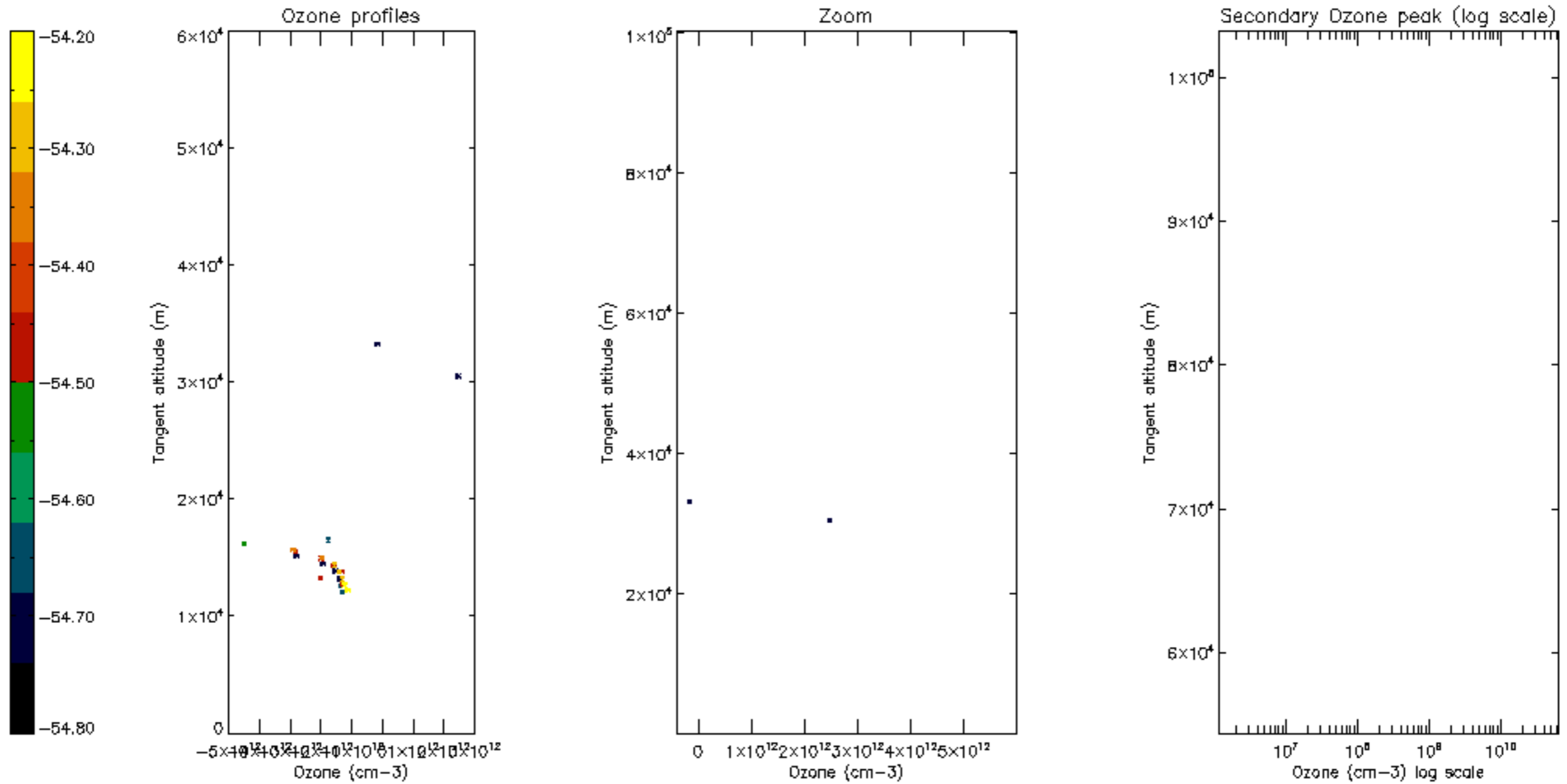
Percentage of saturation errors per profile

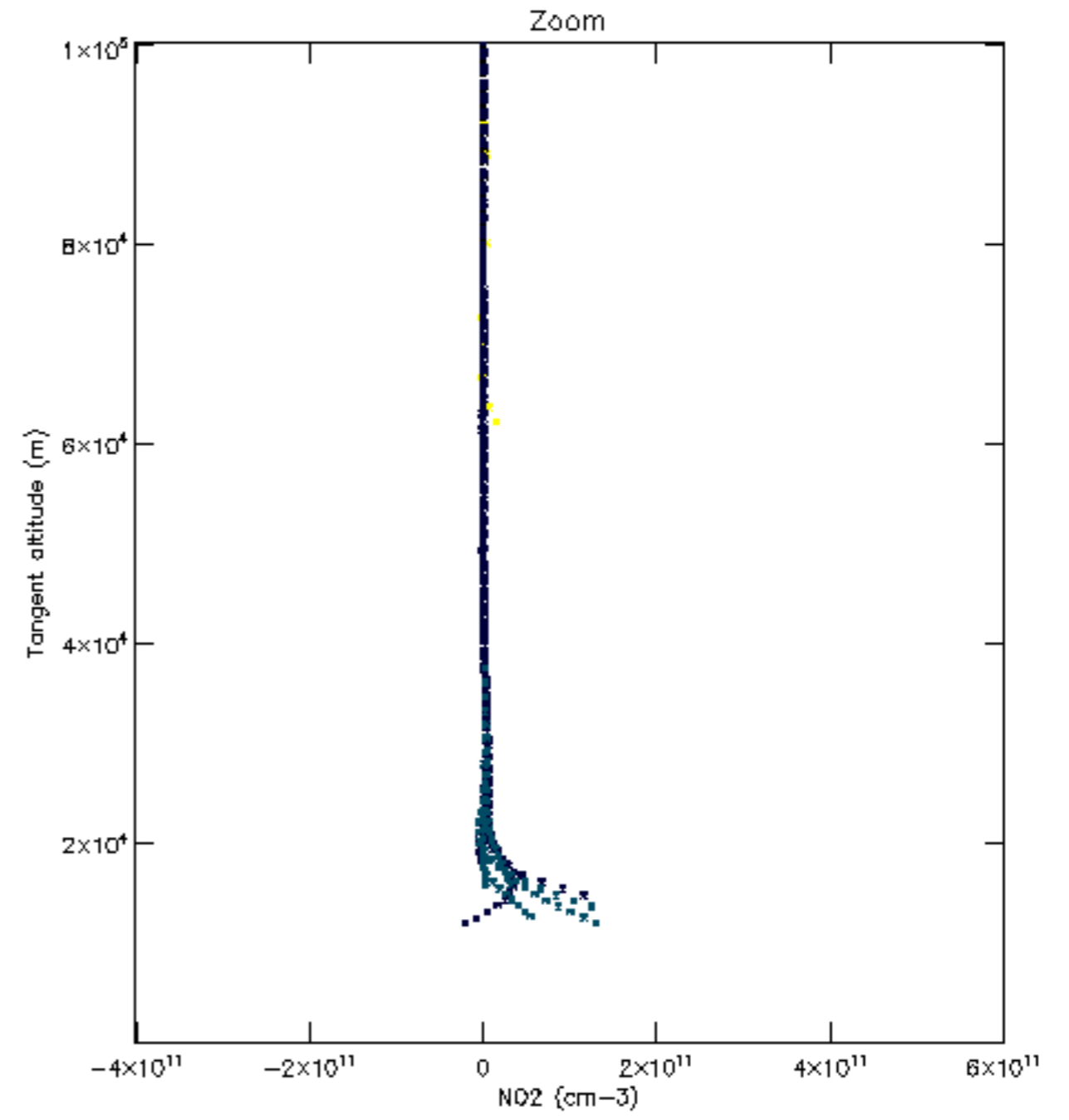
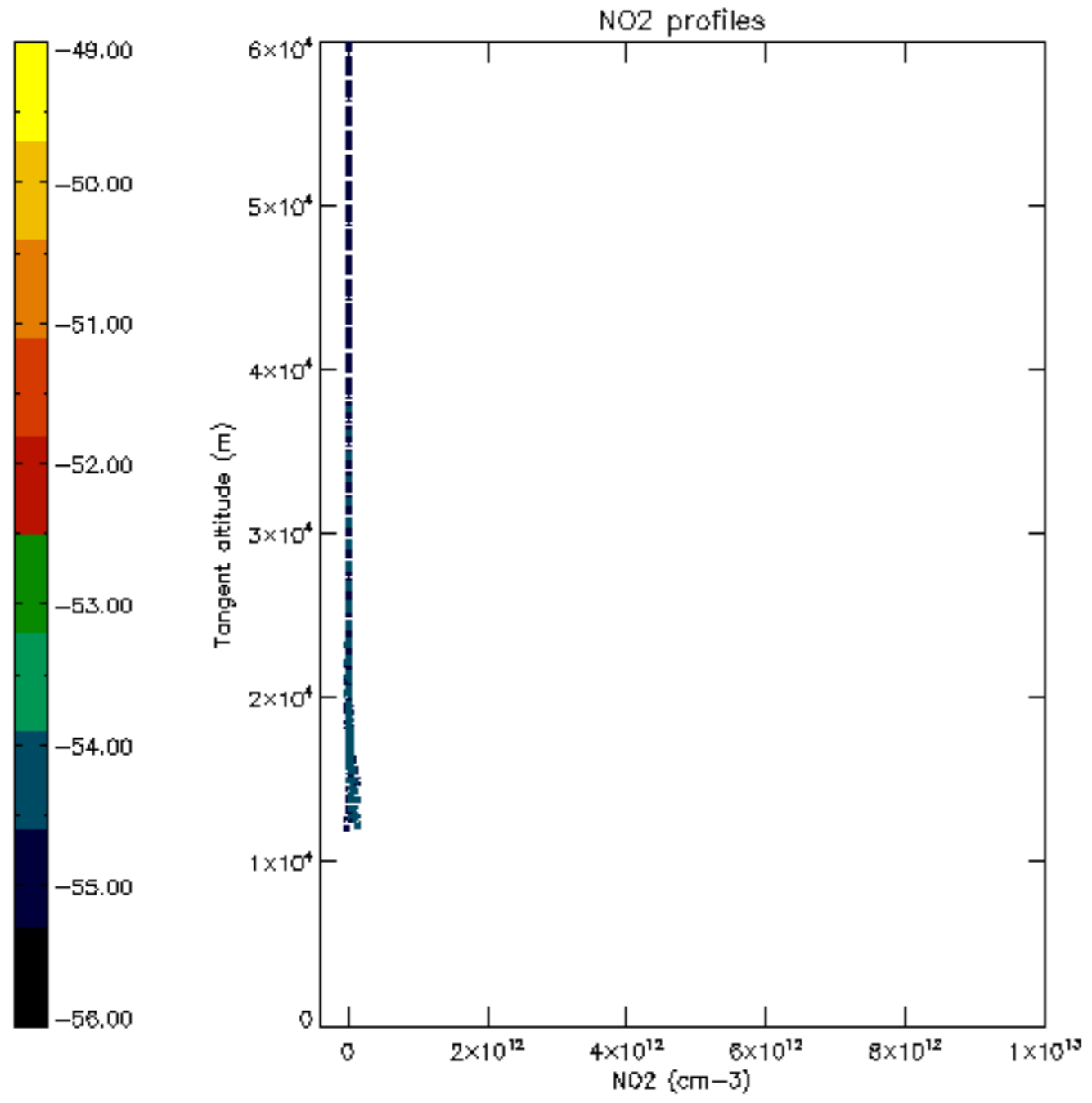


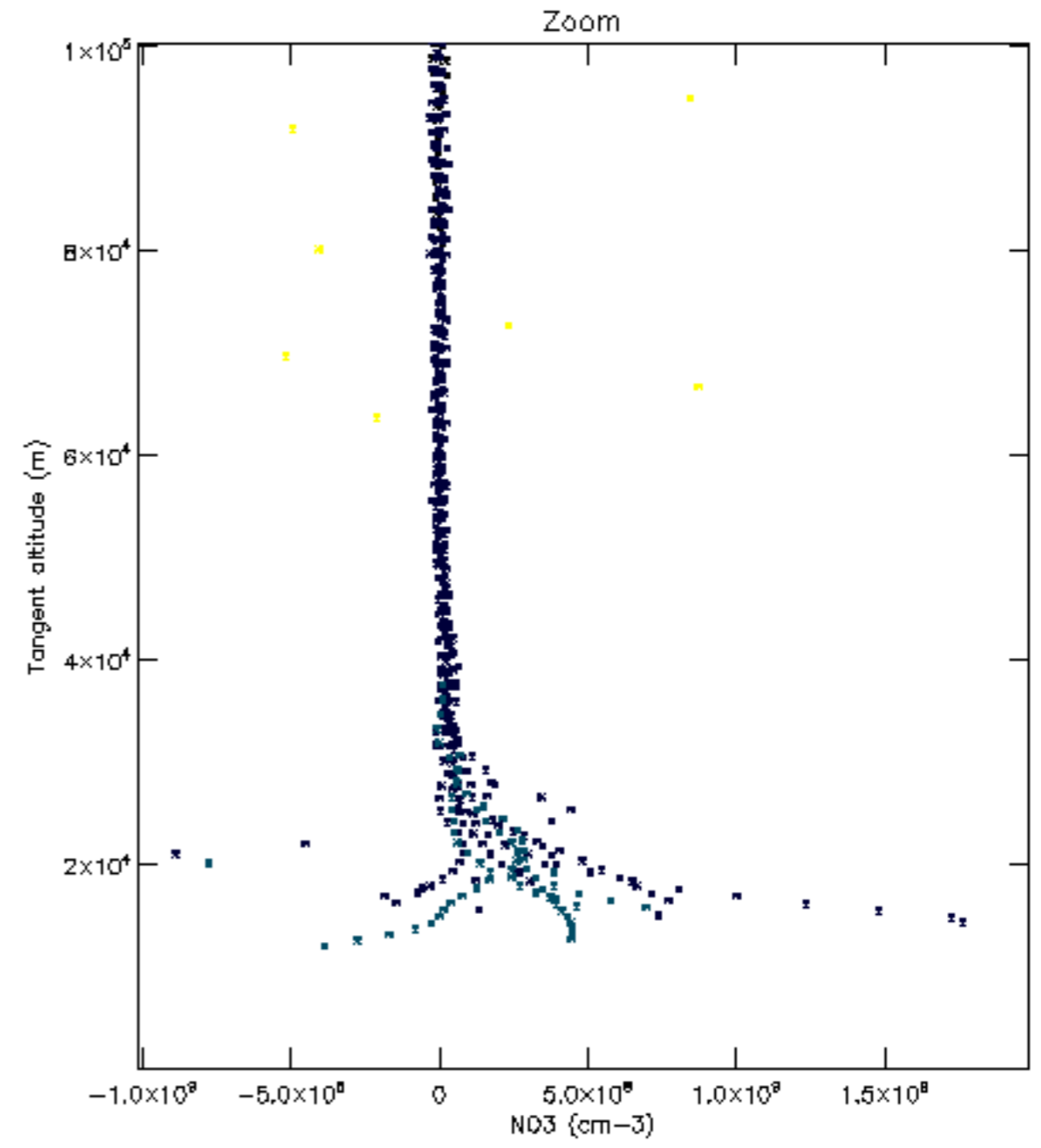
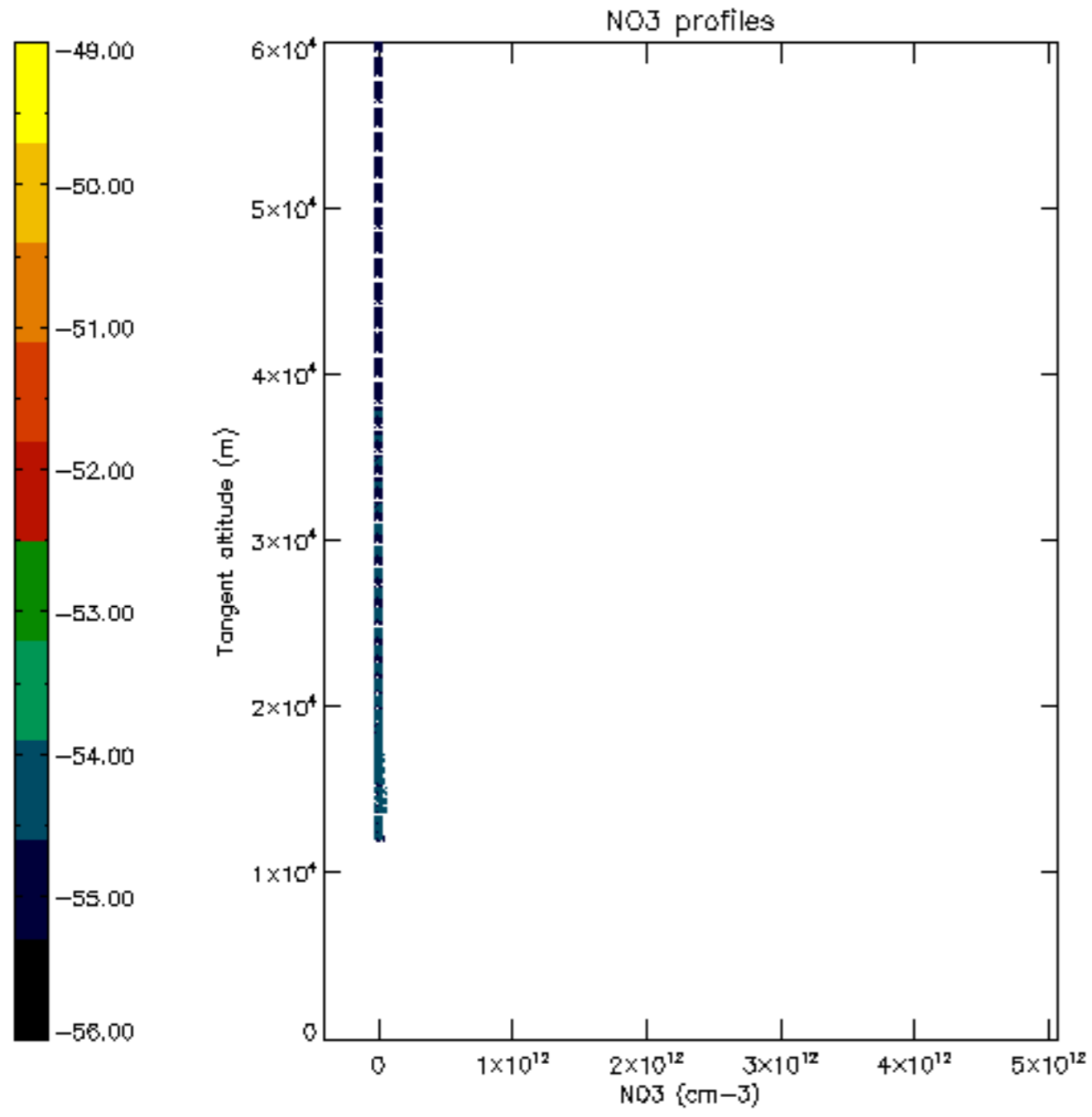


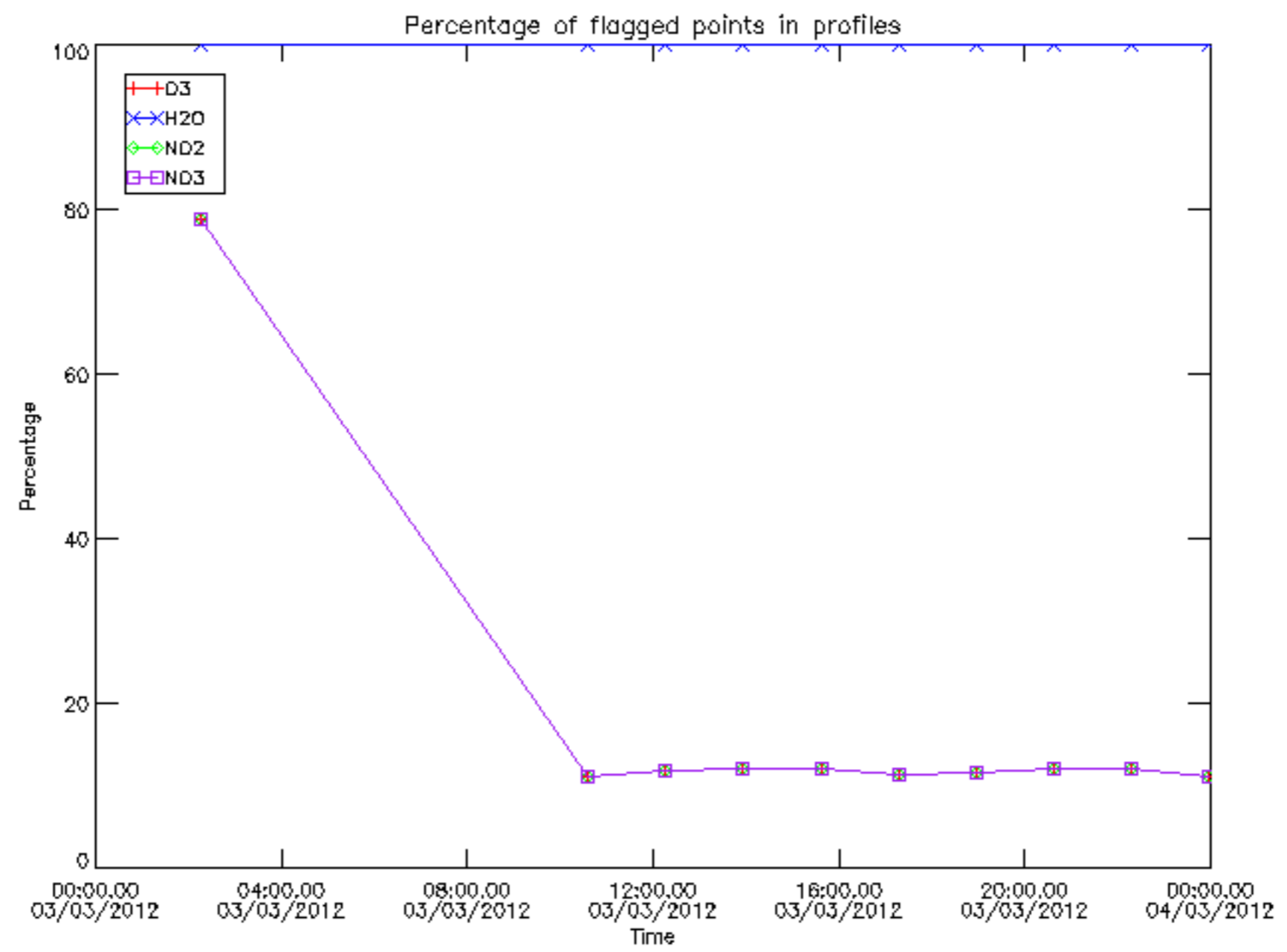




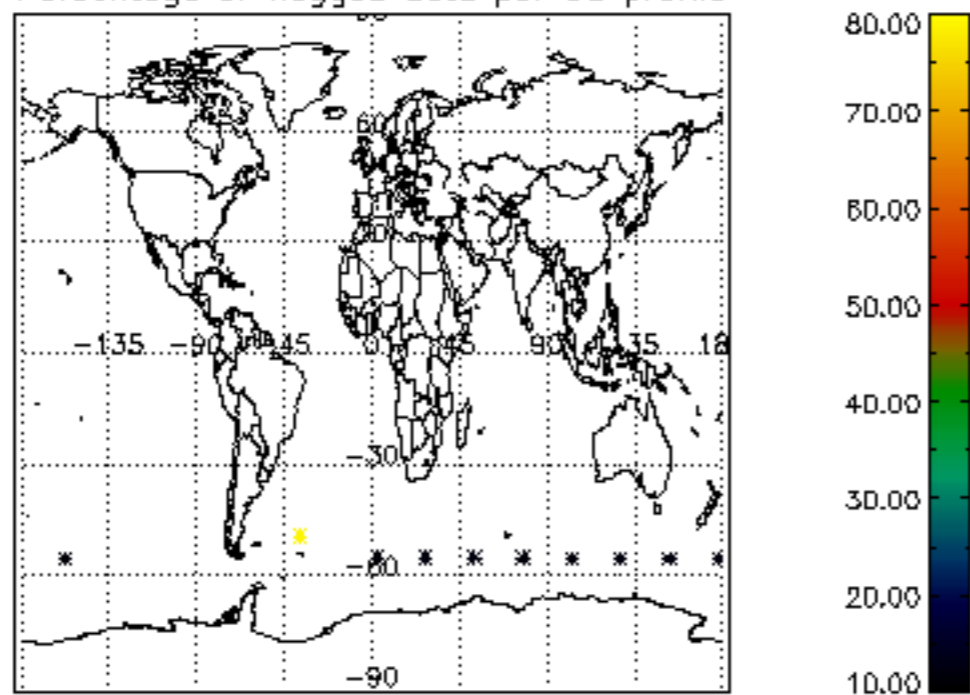




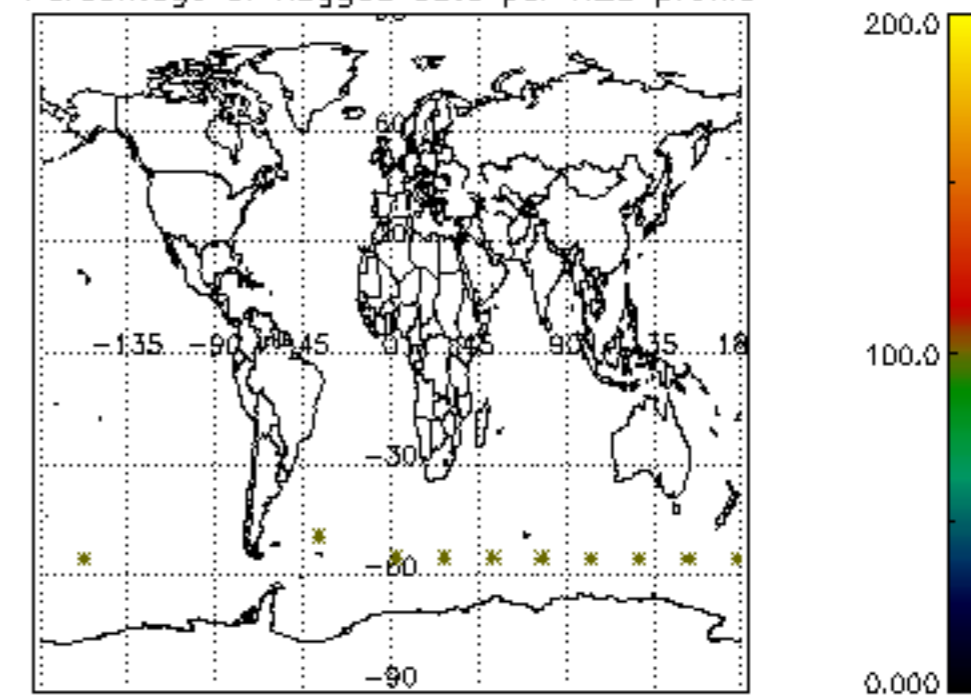




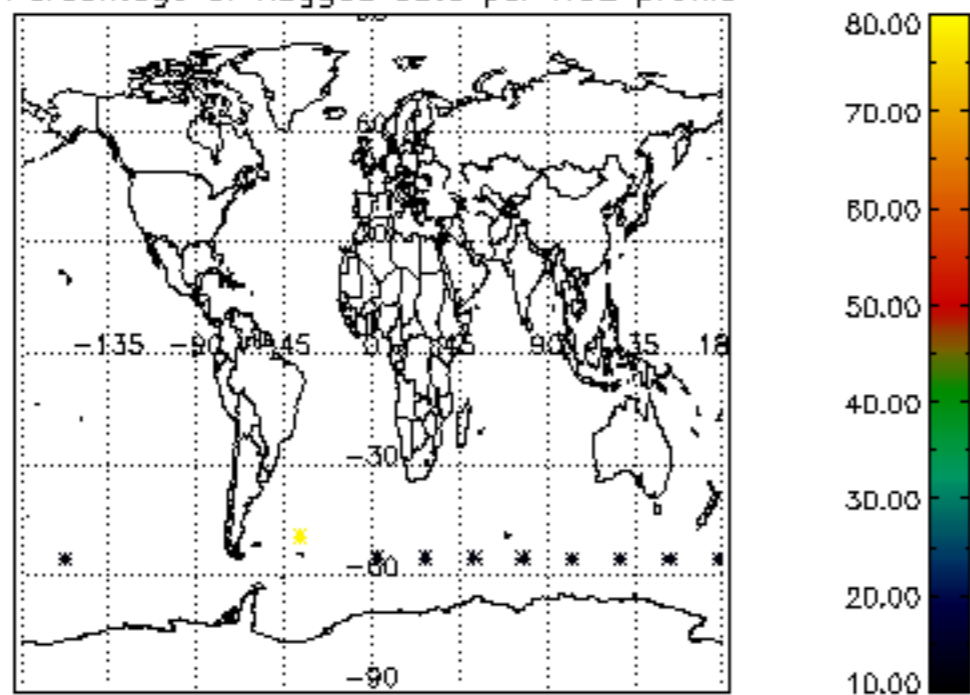
Percentage of flagged data per D3 profile



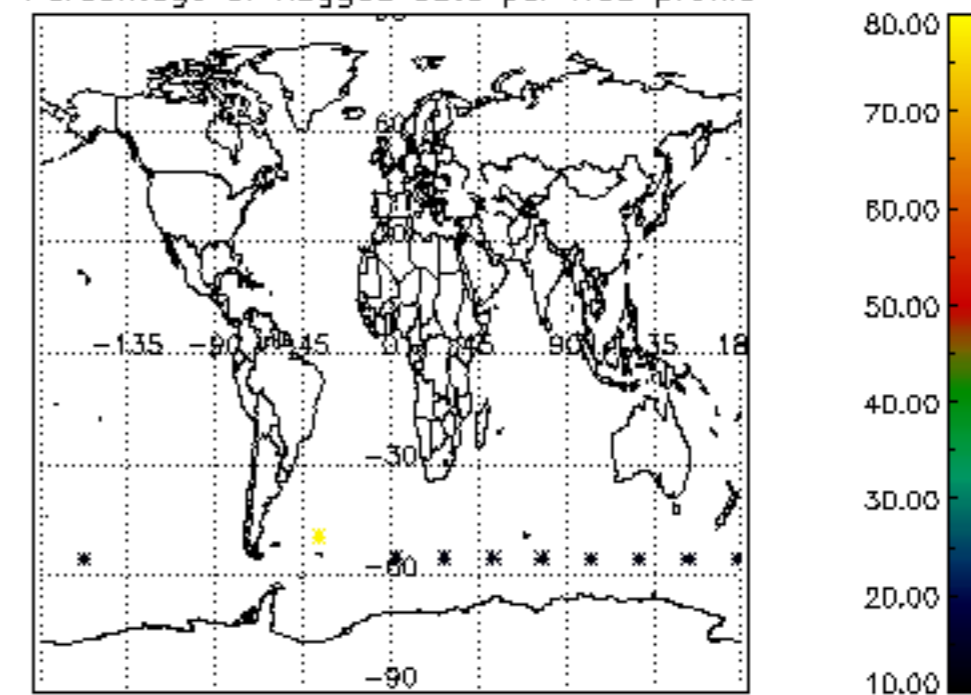
Percentage of flagged data per H2O profile

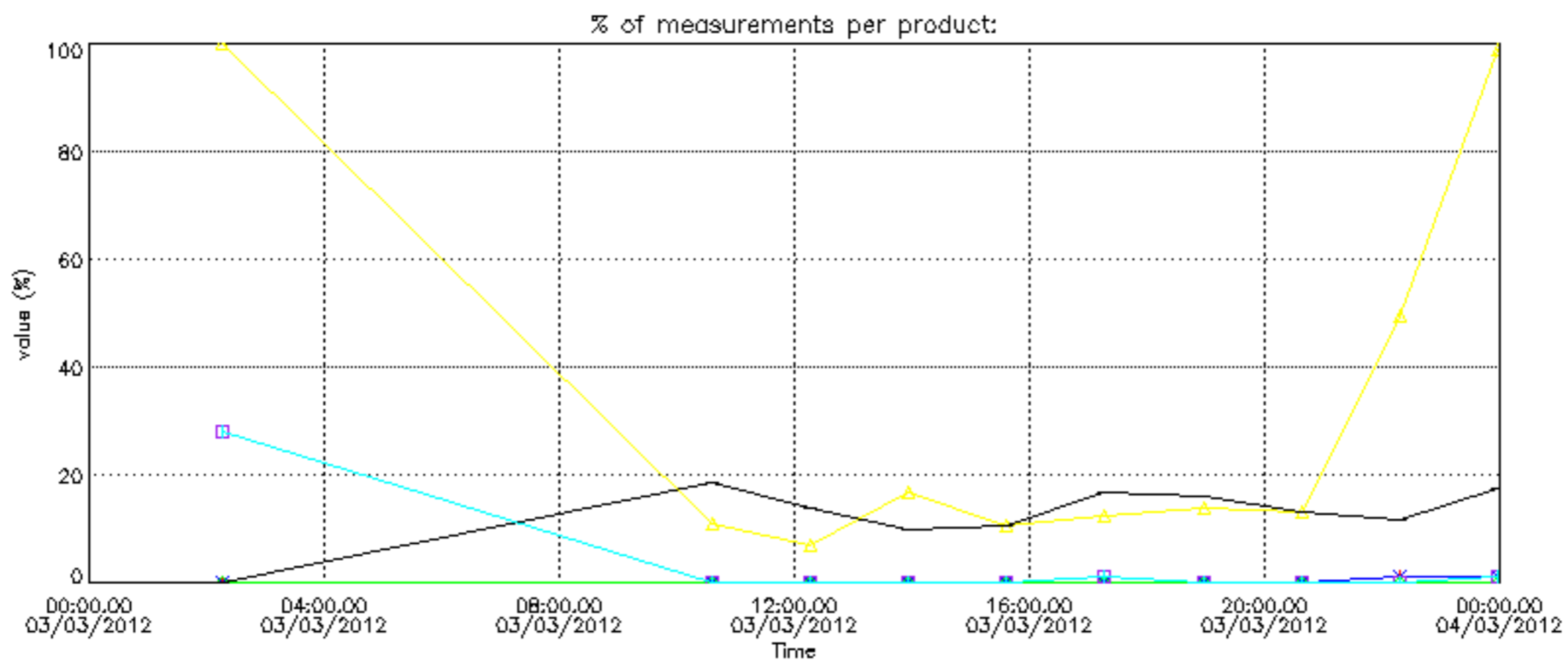


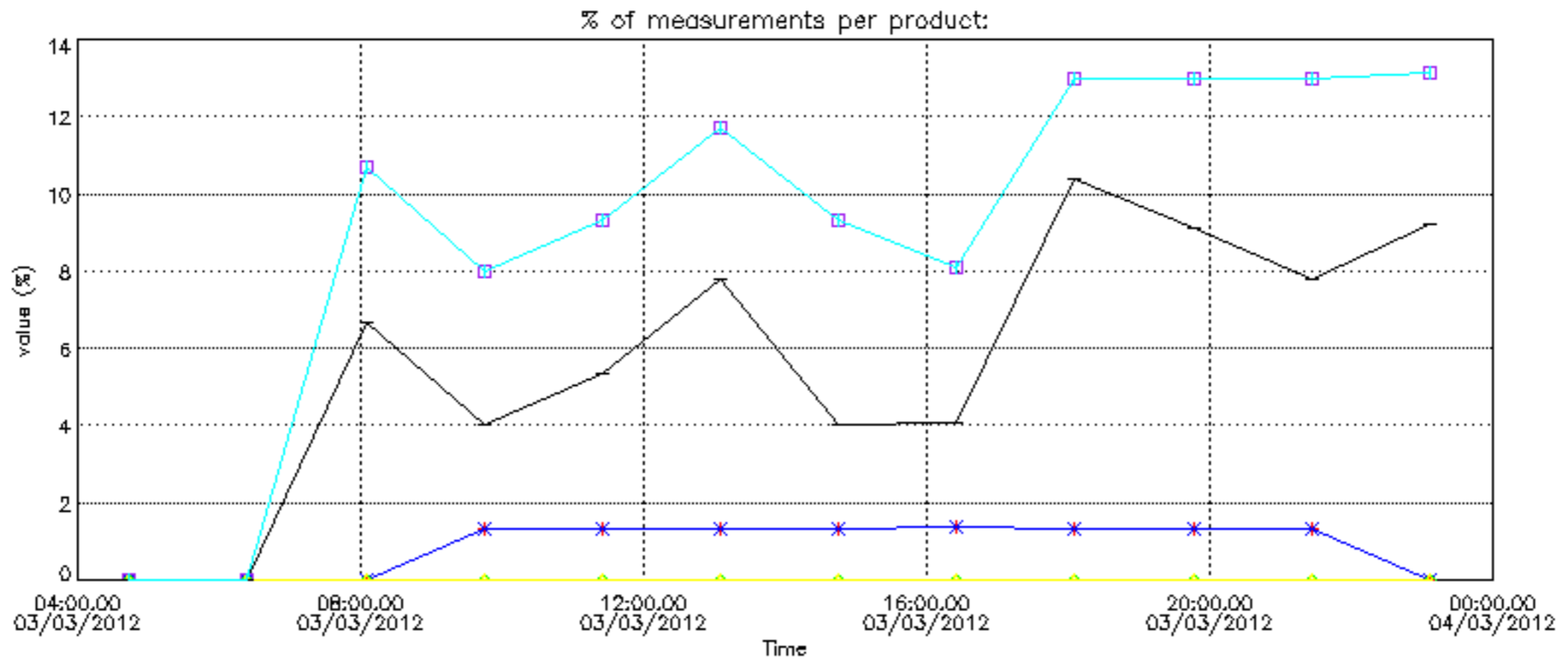
Percentage of flagged data per NO2 profile



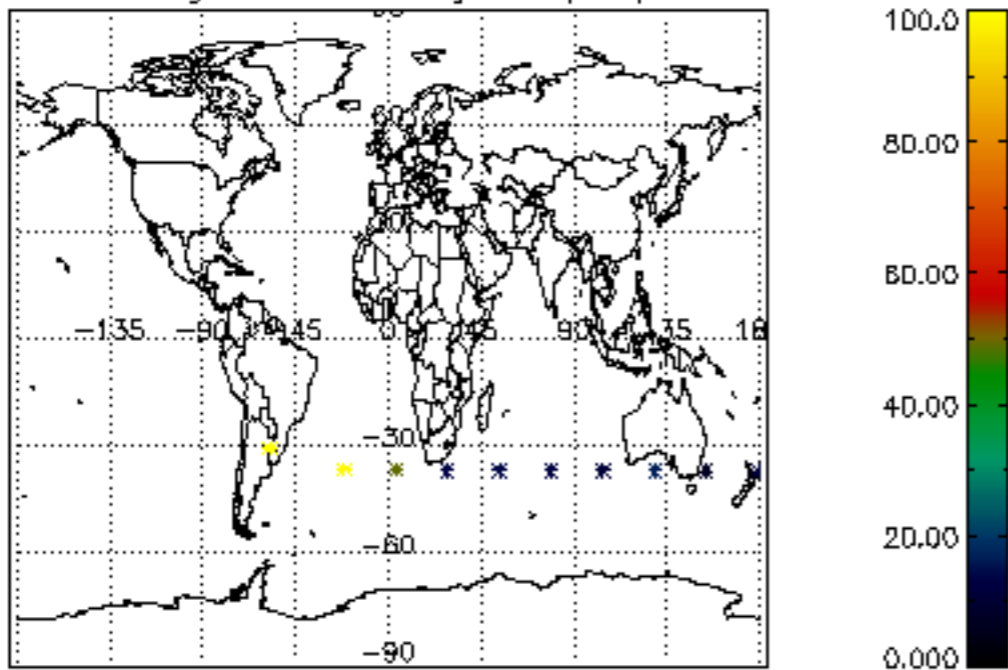
Percentage of flagged data per NO3 profile



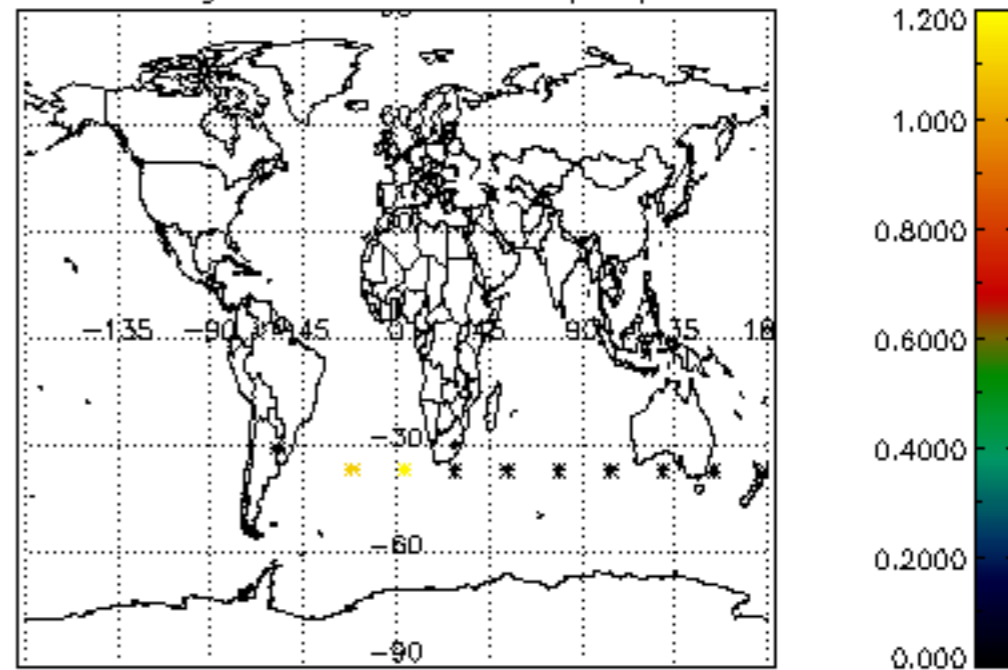




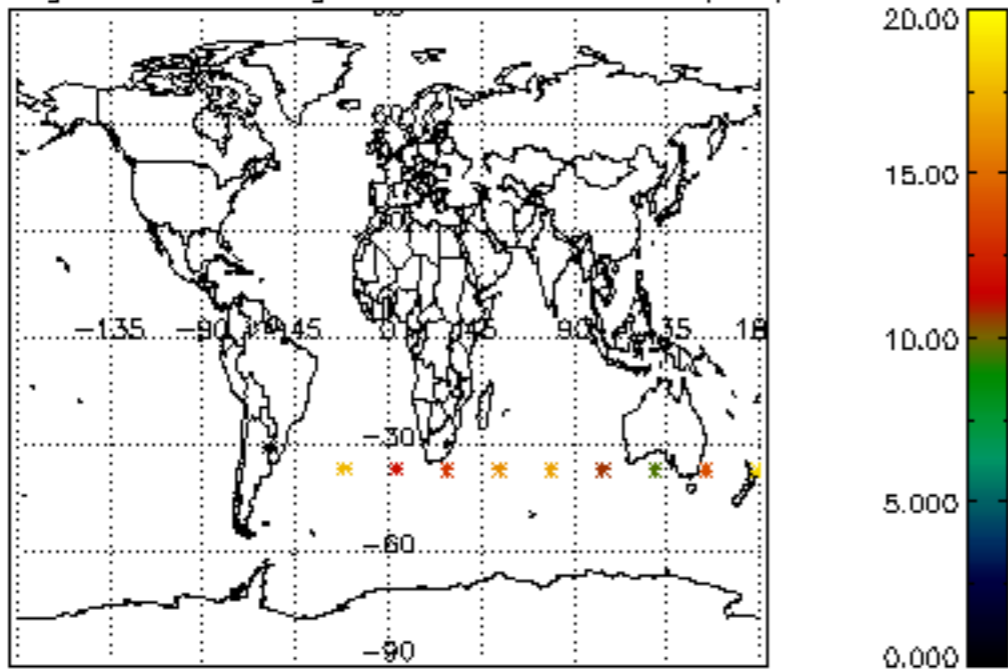
Percentage of cosmic ray hits per profile



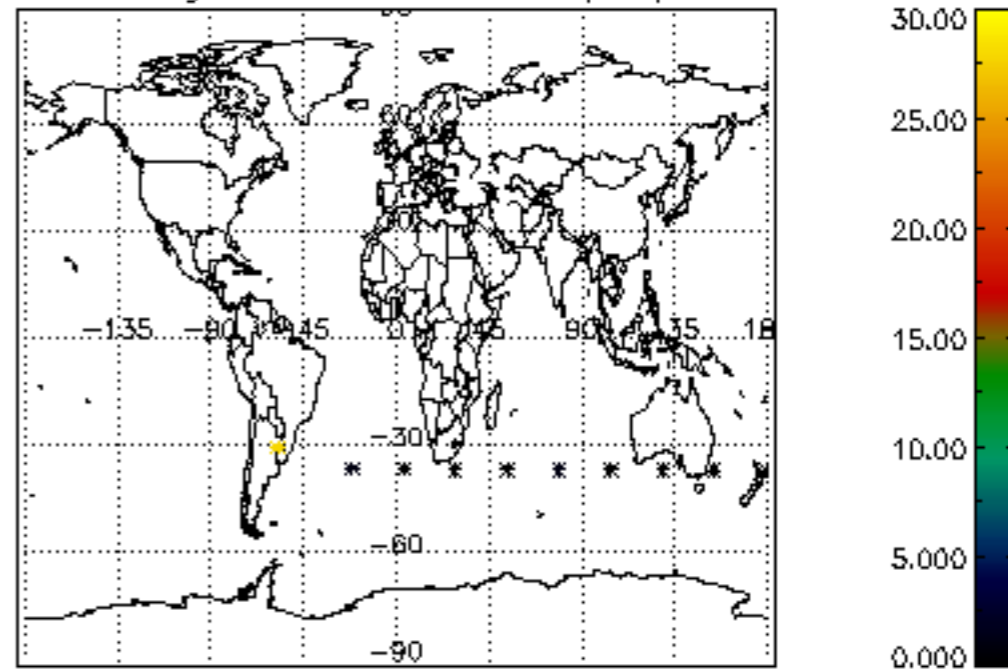
Percentage of datation errors per profile



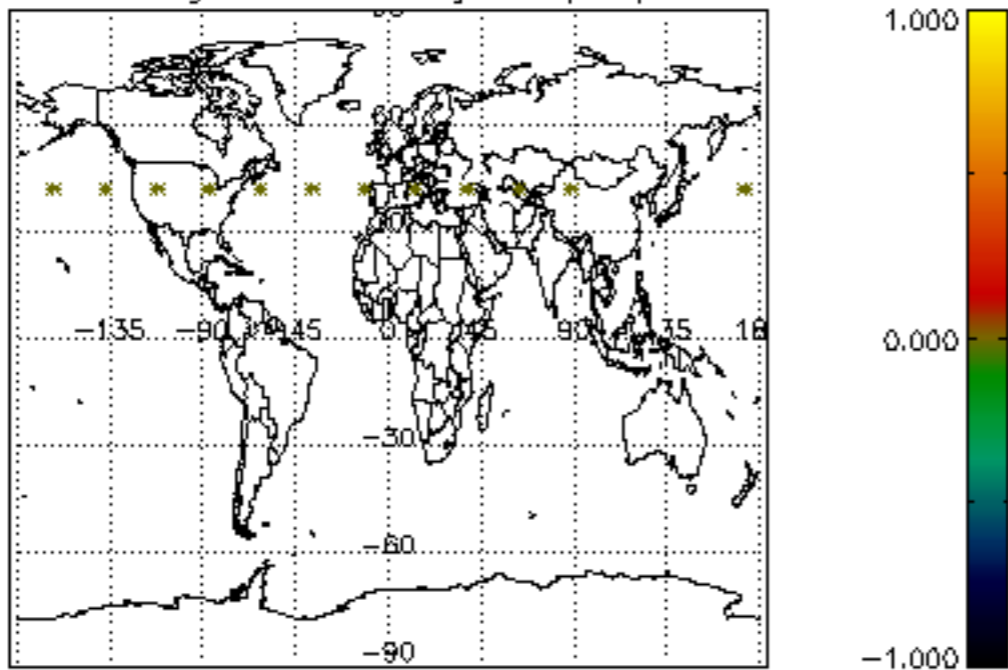
Percentage of star falling outside central band per profile



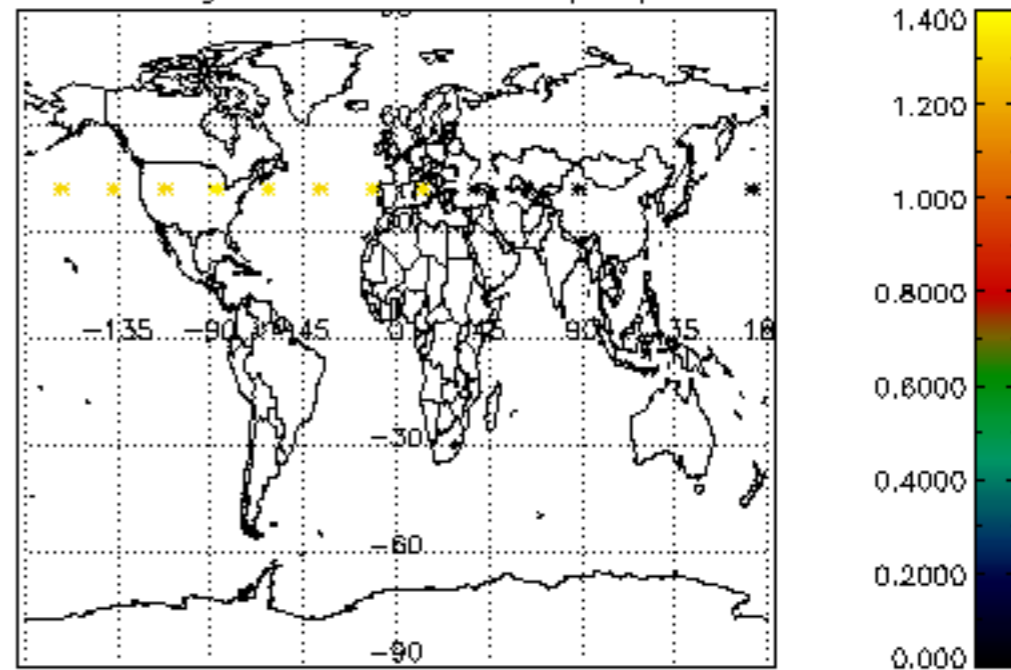
Percentage of saturation errors per profile



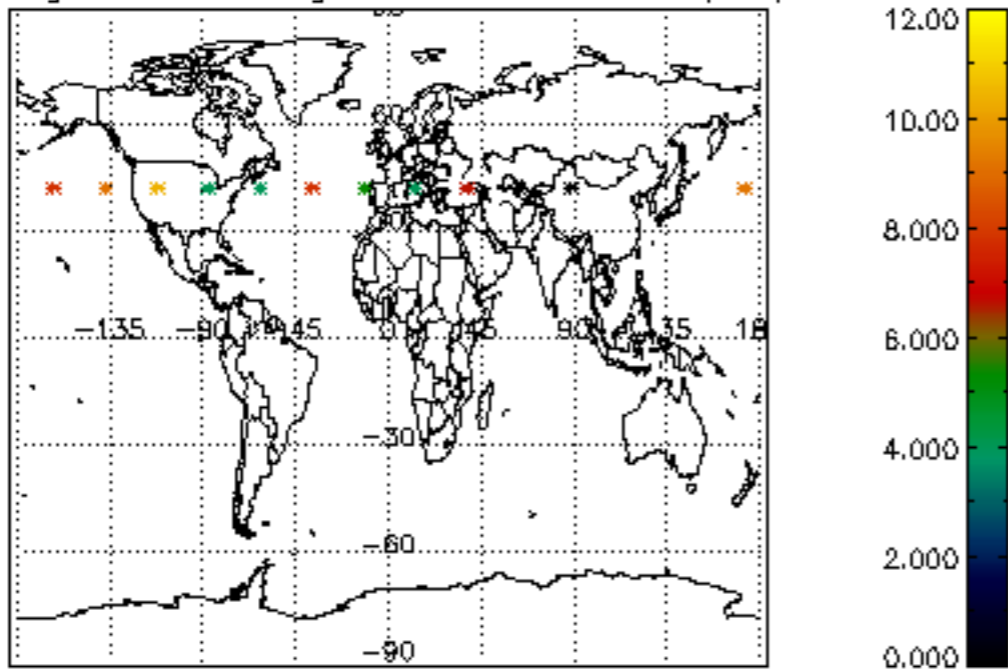
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

