

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 14:11:25
Data source version	GOMOS/6.01
Start time of products	12-03-2012 (12MAR2012 00:00:00)
Stop time of products	13-03-2012 (13MAR2012 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	19
Nb of prods with errors	0

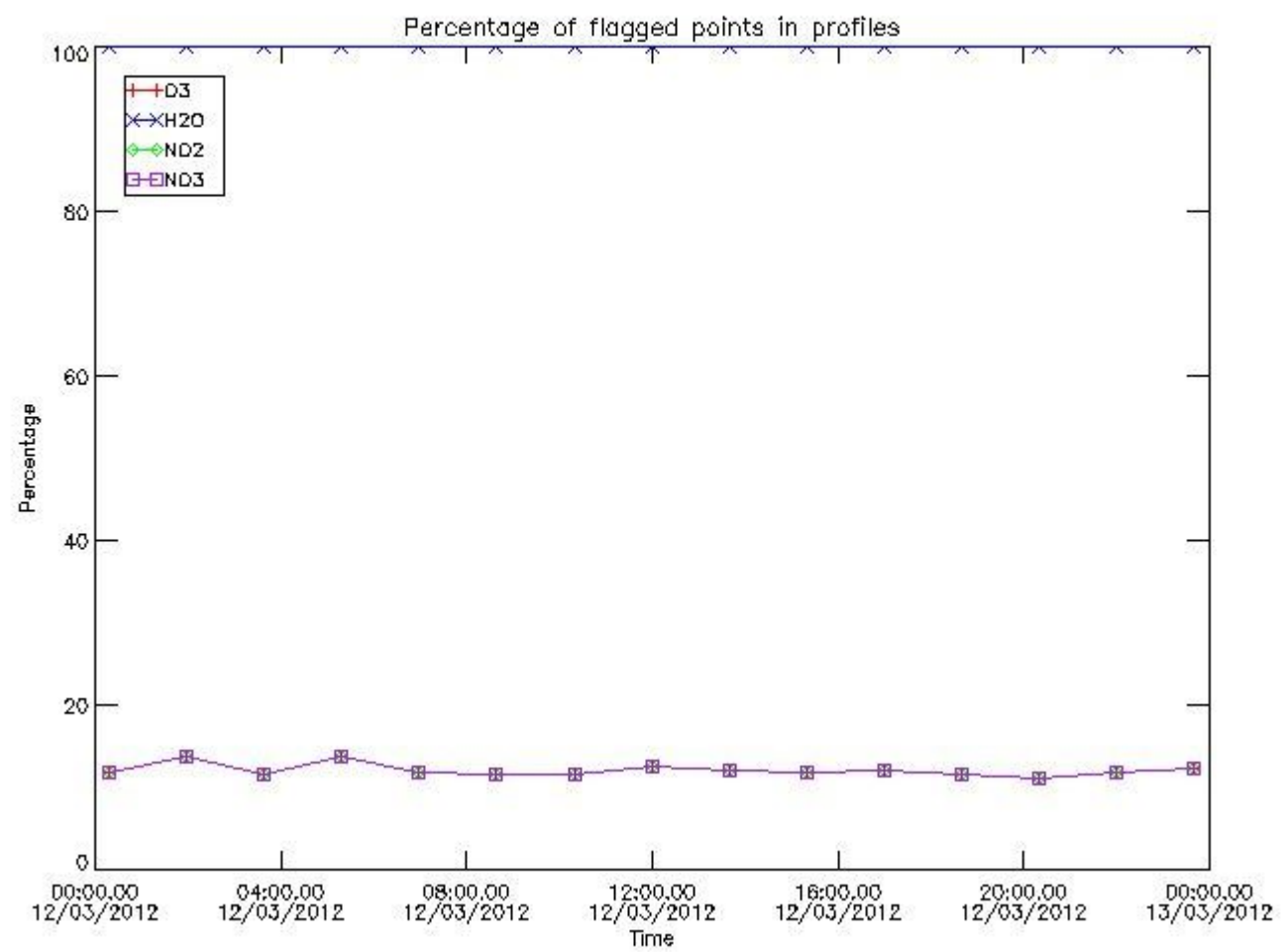
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20120312_001720_000000433112_00304_52473_3776.N1	12-MAR-2012 00:17:20	Dark	43.000	141	Bet Ara	2.8400	4600.0	86	52473	No
2	GOM_NL__2PRFIN20120312_005208_000000383112_00304_52473_3777.N1	12-MAR-2012 00:52:08	Bright	38.000	51	41Gam1Leo	2.0100	4500.0	76	52473	No
3	GOM_NL__2PRFIN20120312_015735_000000413112_00305_52474_3818.N1	12-MAR-2012 01:57:35	Dark	41.000	141	Bet Ara	2.8400	4600.0	82	52474	No
4	GOM_NL__2PRFIN20120312_023222_000000393112_00305_52474_3819.N1	12-MAR-2012 02:32:22	Bright	39.000	51	41Gam1Leo	2.0100	4500.0	78	52474	No
5	GOM_NL__2PRFIN20120312_033750_000000453112_00306_52475_3839.N1	12-MAR-2012 03:37:50	Dark	44.500	141	Bet Ara	2.8400	4600.0	89	52475	No
6	GOM_NL__2PRFIN20120312_041236_000000393112_00306_52475_3840.N1	12-MAR-2012 04:12:36	Bright	39.000	51	41Gam1Leo	2.0100	4500.0	78	52475	No
7	GOM_NL__2PRFIN20120312_051804_000000413112_00307_52476_3845.N1	12-MAR-2012 05:18:04	Dark	41.000	141	Bet Ara	2.8400	4600.0	82	52476	No
8	GOM_NL__2PRFIN20120312_055250_000000393112_00307_52476_3846.N1	12-MAR-2012 05:52:50	Bright	39.000	51	41Gam1Leo	2.0100	4500.0	78	52476	No
9	GOM_NL__2PRFIN20120312_065819_000000433112_00308_52477_3859.N1	12-MAR-2012 06:58:19	Dark	42.500	141	Bet Ara	2.8400	4600.0	85	52477	No
10	GOM_NL__2PRFIN20120312_083833_000000443112_00309_52478_3894.N1	12-MAR-2012 08:38:33	Dark	43.500	141	Bet Ara	2.8400	4600.0	87	52478	No
11	GOM_NL__2PRFIN20120312_101848_000000443112_00310_52479_3927.N1	12-MAR-2012 10:18:48	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	52479	No
12	GOM_NL__2PRFIN20120312_115903_000000403112_00311_52480_3990.N1	12-MAR-2012 11:59:03	Dark	40.000	141	Bet Ara	2.8400	4600.0	80	52480	No
13	GOM_NL__2PRFIN20120312_133917_000000423112_00312_52481_4018.N1	12-MAR-2012 13:39:17	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	52481	No
14	GOM_NL__2PRFIN20120312_151932_000000433112_00313_52482_4045.N1	12-MAR-2012 15:19:32	Dark	43.000	141	Bet Ara	2.8400	4600.0	86	52482	No
15	GOM_NL__2PRFIN20120312_165946_000000423112_00314_52483_4095.N1	12-MAR-2012 16:59:46	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	52483	No
16	GOM_NL__2PRFIN20120312_184001_000000443112_00315_52484_4119.N1	12-MAR-2012 18:40:01	Dark	43.500	141	Bet Ara	2.8400	4600.0	87	52484	No
17	GOM_NL__2PRFIN20120312_202016_000000453112_00316_52485_4169.N1	12-MAR-2012 20:20:16	Dark	45.000	141	Bet Ara	2.8400	4600.0	90	52485	No
18	GOM_NL__2PRFIN20120312_220030_000000433112_00317_52486_4174.N1	12-MAR-2012 22:00:30	Dark	42.500	141	Bet Ara	2.8400	4600.0	85	52486	No
19	GOM_NL__2PRFIN20120312_234045_000000413112_00318_52487_4184.N1	12-MAR-2012 23:40:45	Dark	41.000	141	Bet Ara	2.8400	4600.0	82	52487	No

3. Quality information per product

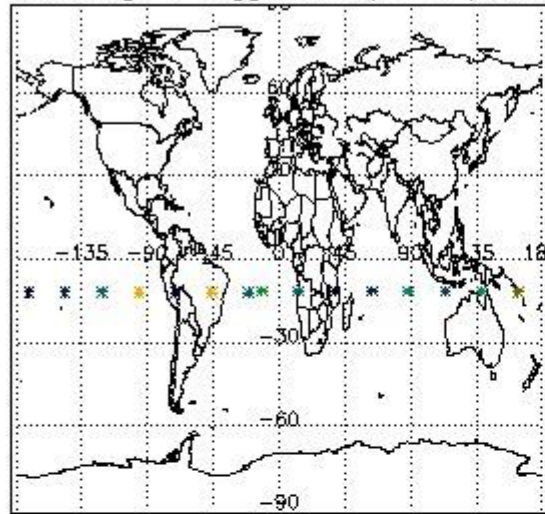
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

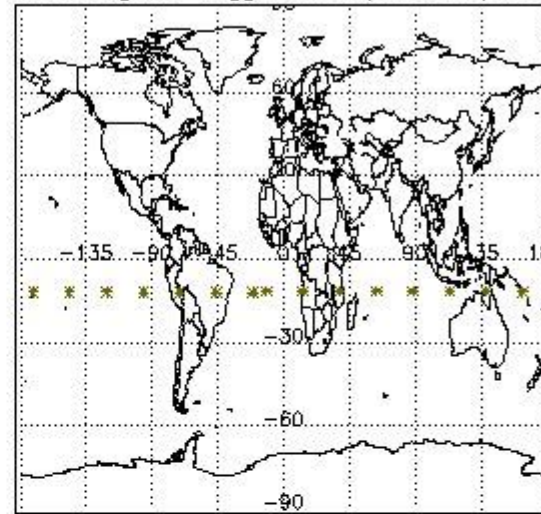


3.2 Plot quality information per product (world map)

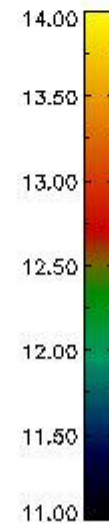
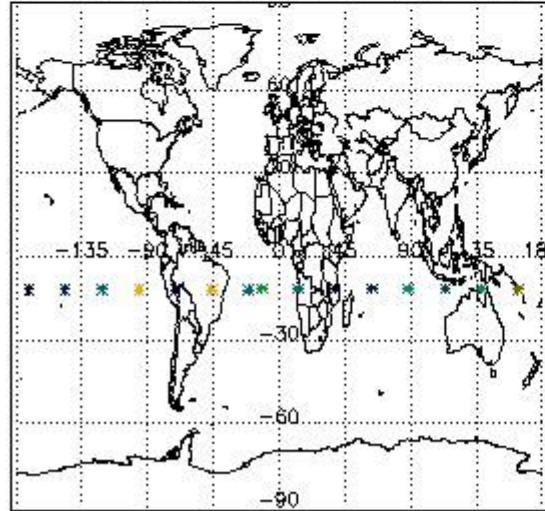
Percentage of flagged data per O3 profile



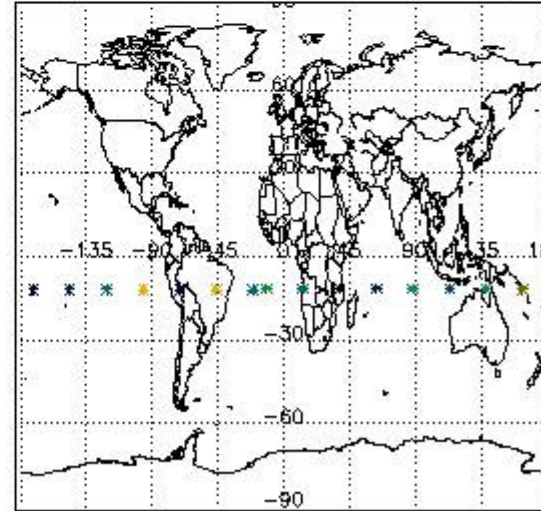
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

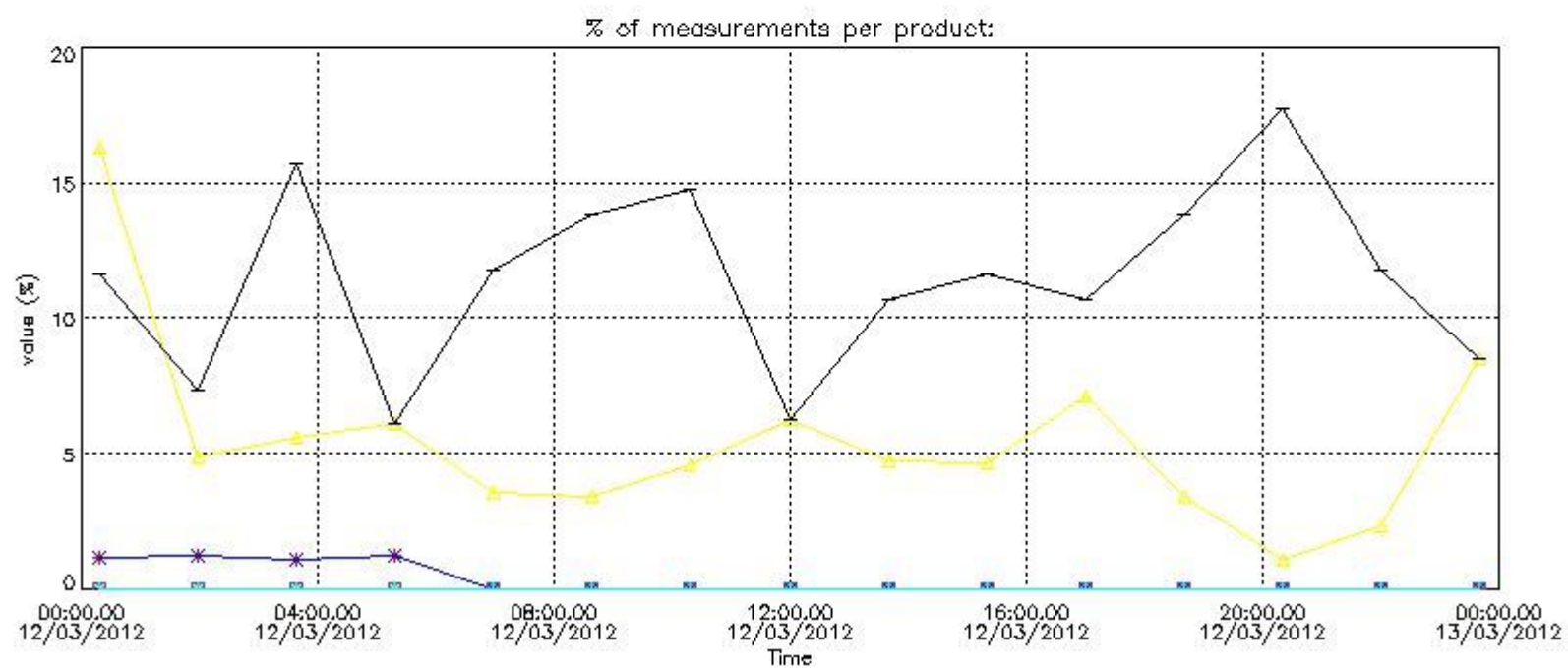


4. Level 1 quality information per product

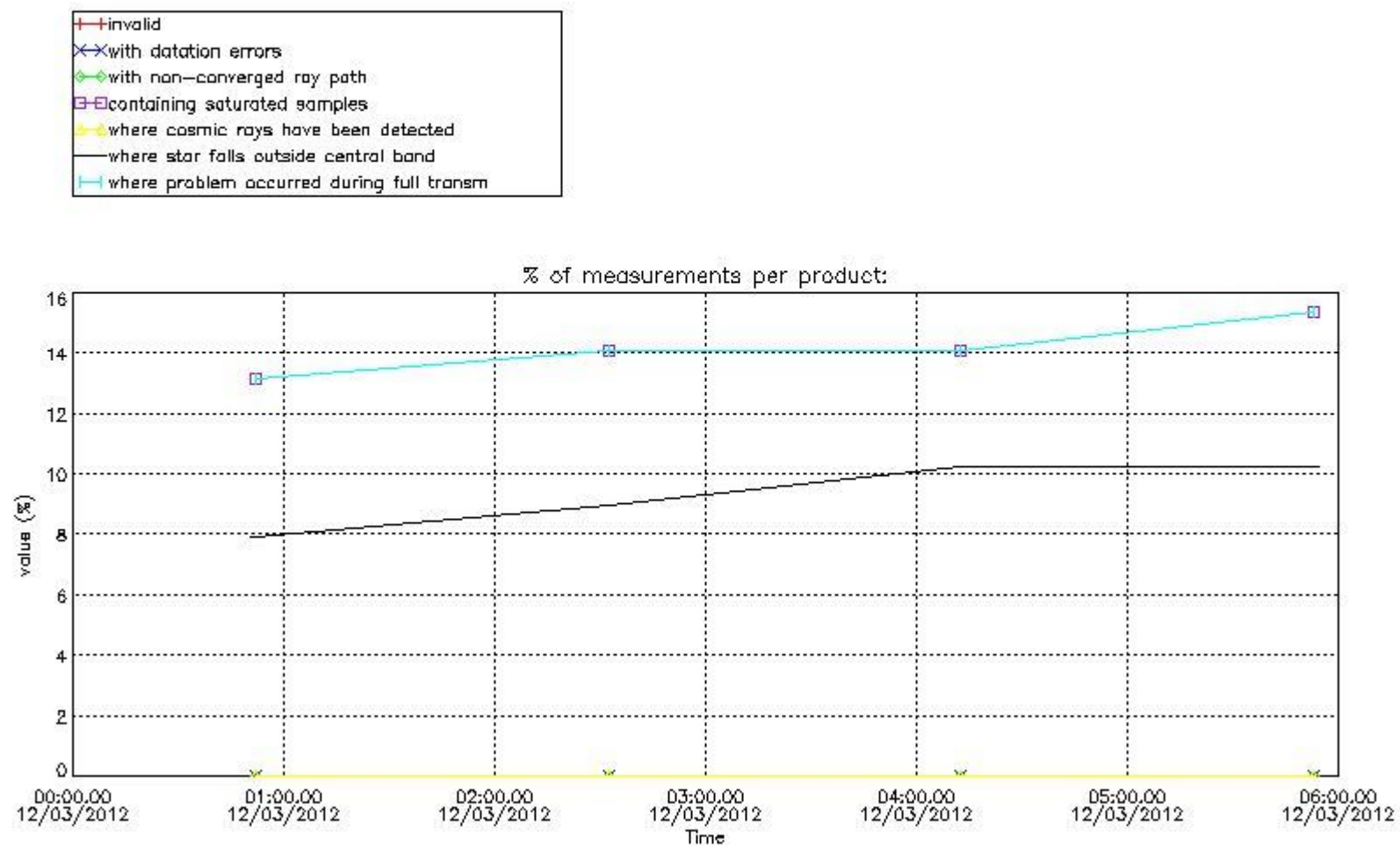
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



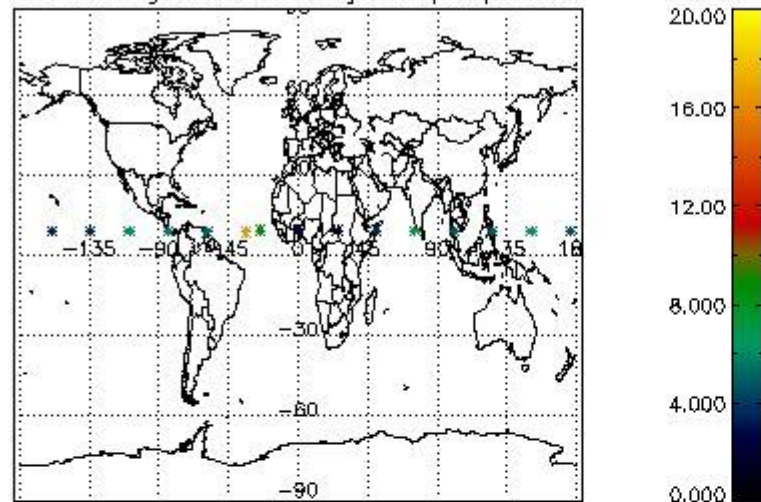
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



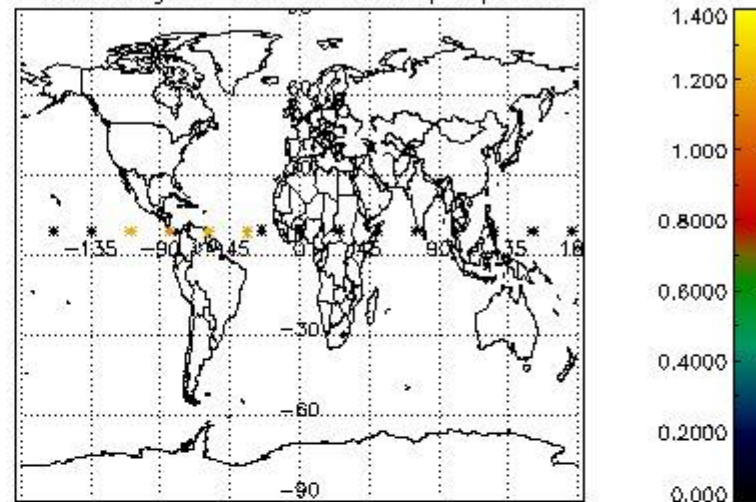
4.2 Plot quality information per product coming from level 1b processing (world map)

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

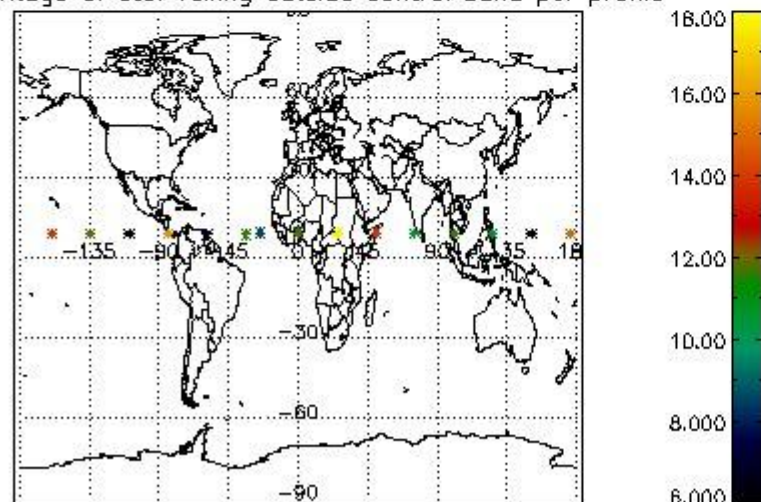
Percentage of cosmic ray hits per profile



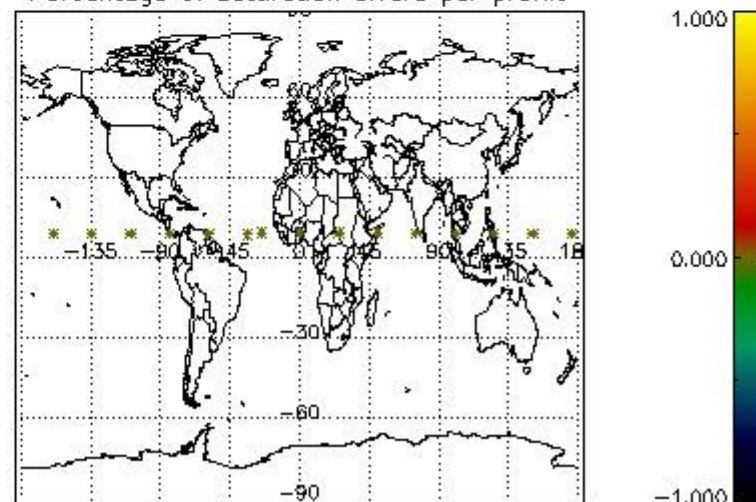
Percentage of datation errors per profile



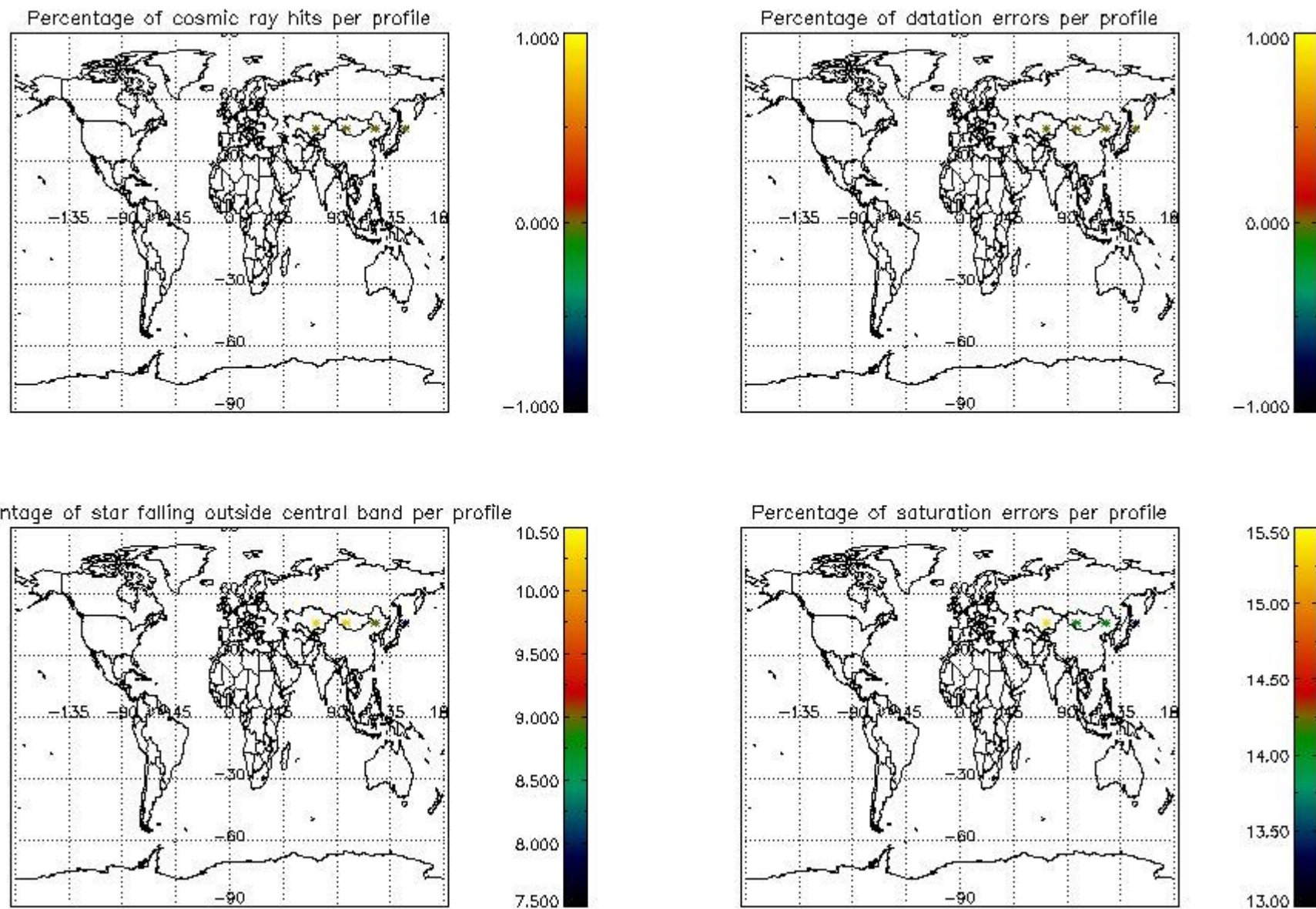
Percentage of star falling outside central band per profile



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

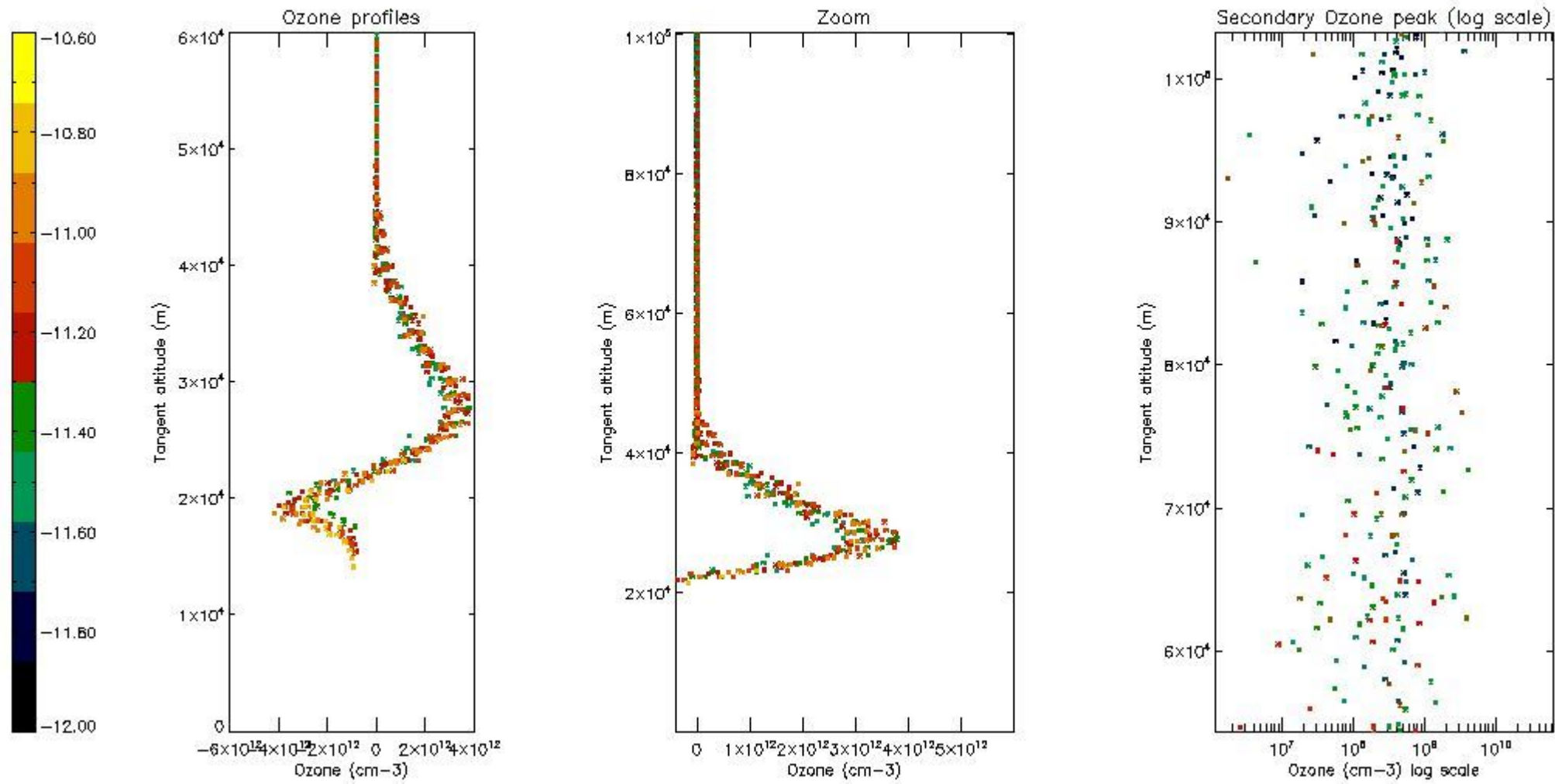
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	82
STD < 20	17

STD < 10	4
STD < 5	1

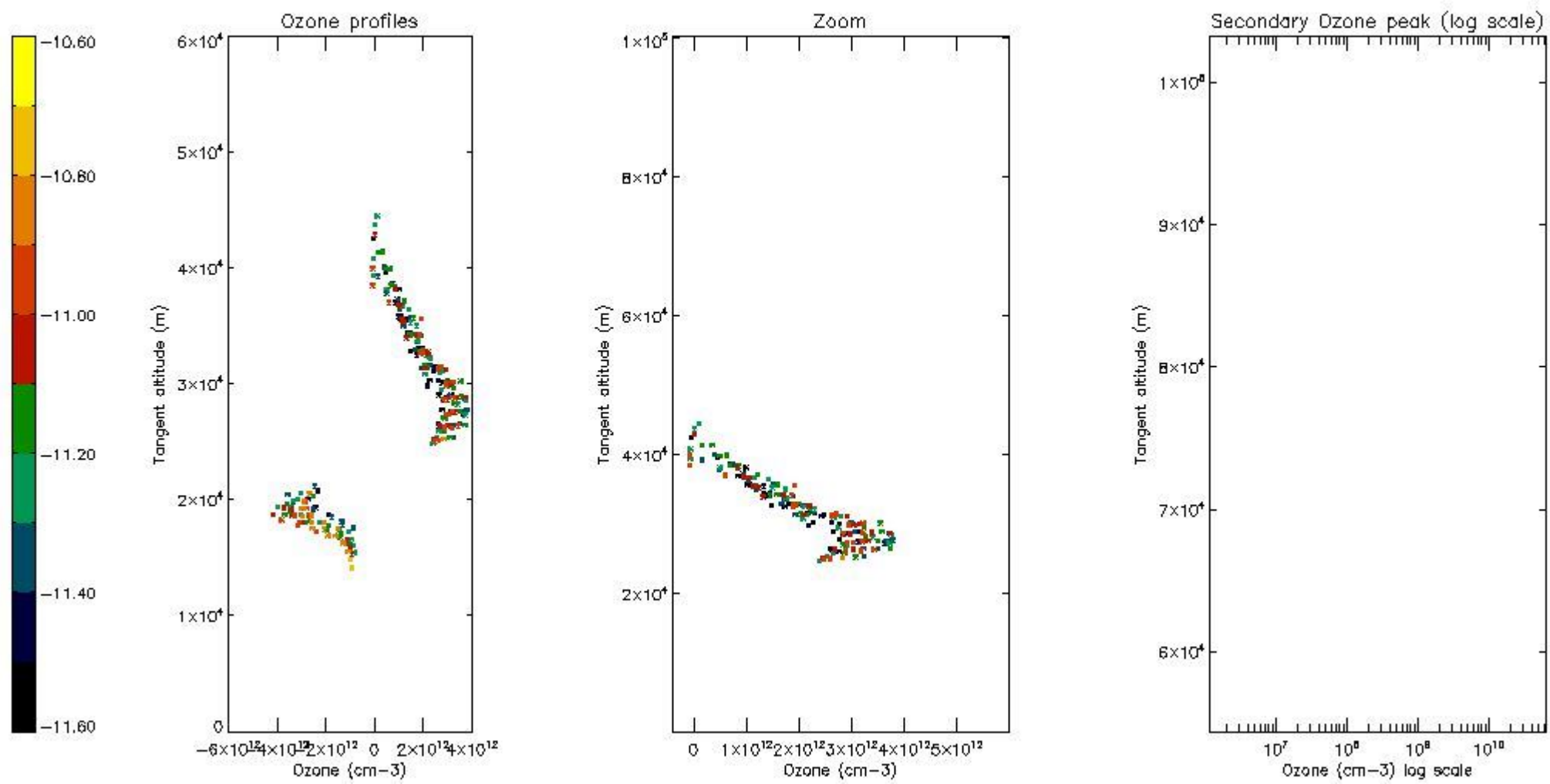
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



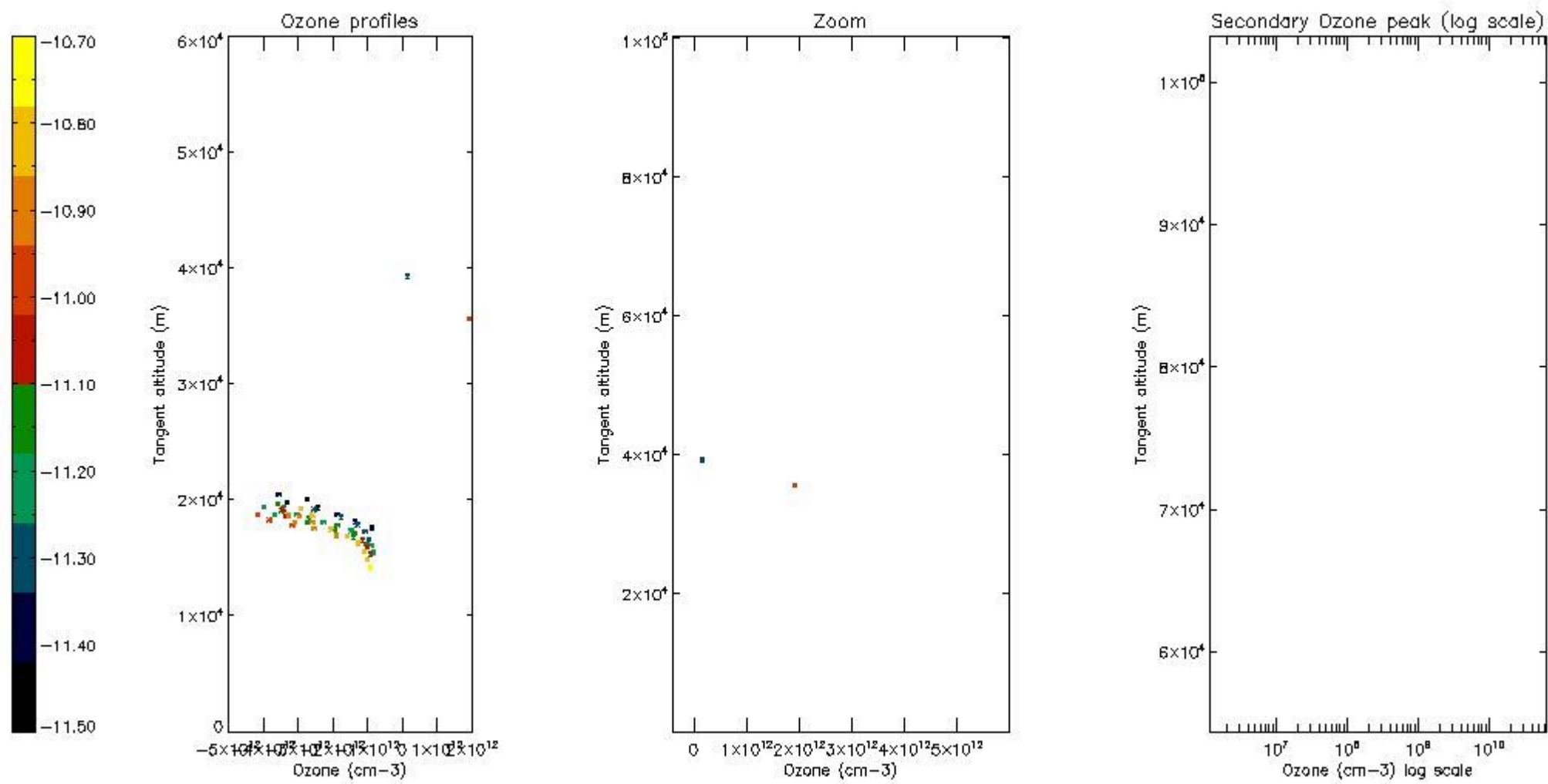
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



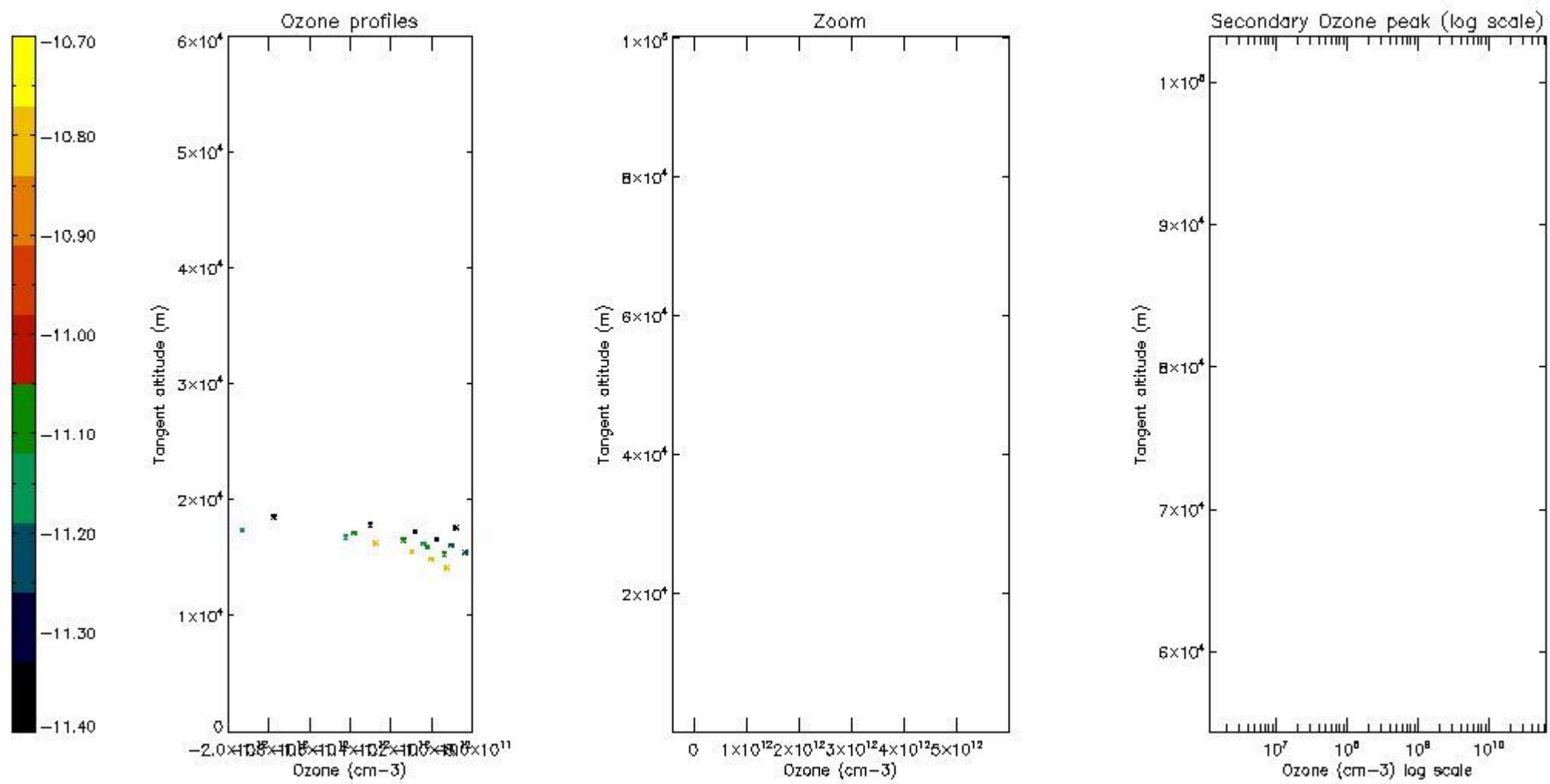
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



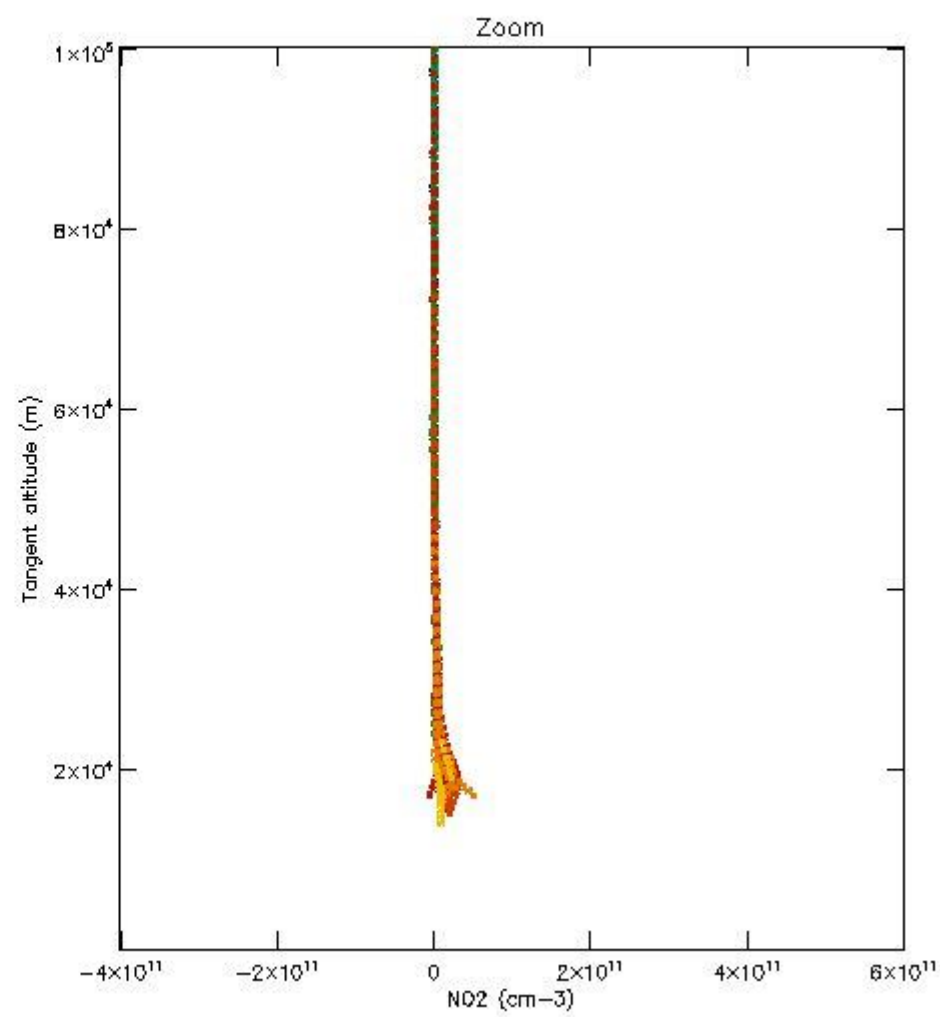
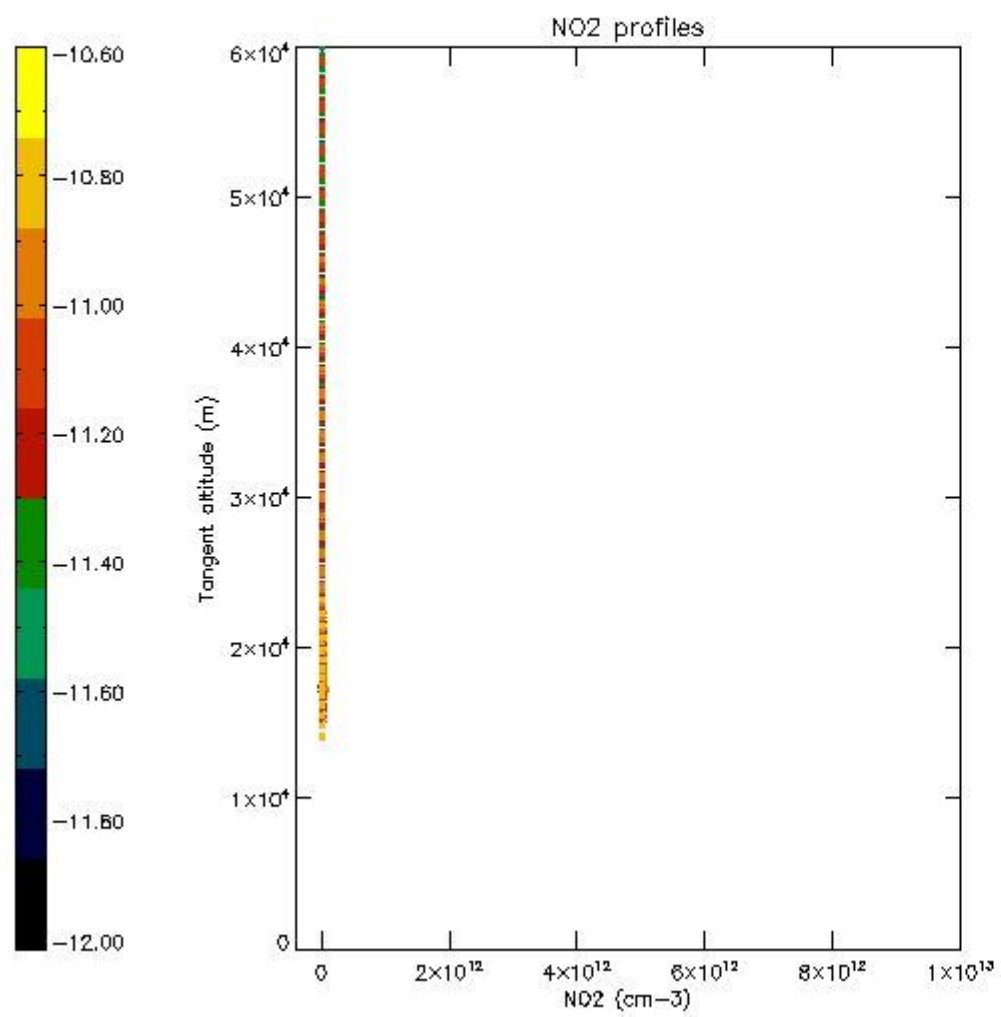
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



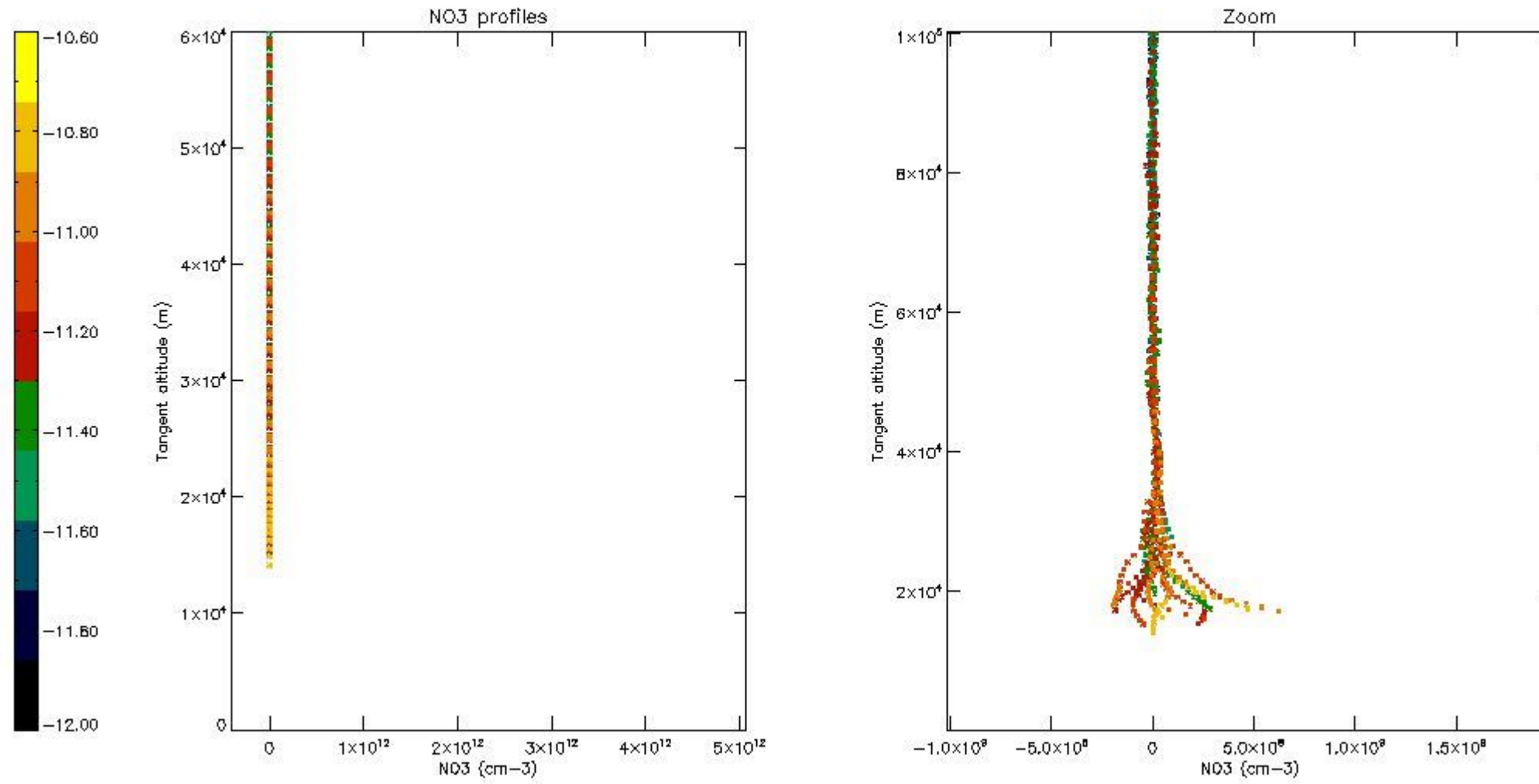
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	12-MAR-2012 00:17:20
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	12-MAR-2012 00:17:20
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	12-MAR-2012 00:17:20

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

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

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[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 \(dark without errors\)](#)

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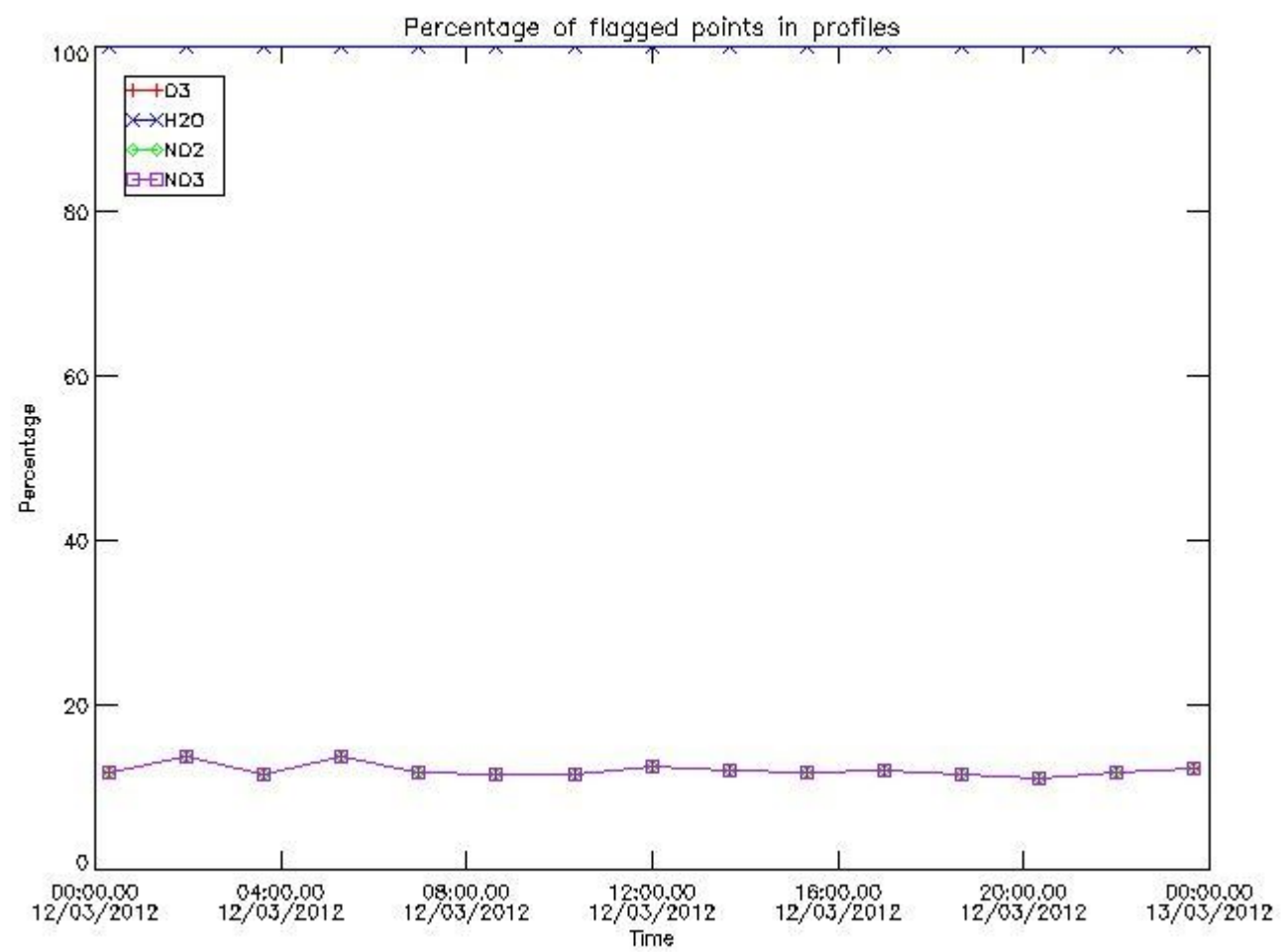
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6	GOM_NL__2PRFIN20120312_041236_000000393112_00306_52475_3840.N1	12-MAR-2012 04:12:36	Bright	39.000	51	41Gam1Leo	2.0100	4500.0	78	52475	No
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8	GOM_NL__2PRFIN20120312_055250_000000393112_00307_52476_3846.N1	12-MAR-2012 05:52:50	Bright	39.000	51	41Gam1Leo	2.0100	4500.0	78	52476	No
9	GOM_NL__2PRFIN20120312_065819_000000433112_00308_52477_3859.N1	12-MAR-2012 06:58:19	Dark	42.500	141	Bet Ara	2.8400	4600.0	85	52477	No
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12	GOM_NL__2PRFIN20120312_115903_000000403112_00311_52480_3990.N1	12-MAR-2012 11:59:03	Dark	40.000	141	Bet Ara	2.8400	4600.0	80	52480	No
13	GOM_NL__2PRFIN20120312_133917_000000423112_00312_52481_4018.N1	12-MAR-2012 13:39:17	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	52481	No
14	GOM_NL__2PRFIN20120312_151932_000000433112_00313_52482_4045.N1	12-MAR-2012 15:19:32	Dark	43.000	141	Bet Ara	2.8400	4600.0	86	52482	No
15	GOM_NL__2PRFIN20120312_165946_000000423112_00314_52483_4095.N1	12-MAR-2012 16:59:46	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	52483	No
16	GOM_NL__2PRFIN20120312_184001_000000443112_00315_52484_4119.N1	12-MAR-2012 18:40:01	Dark	43.500	141	Bet Ara	2.8400	4600.0	87	52484	No
17	GOM_NL__2PRFIN20120312_202016_000000453112_00316_52485_4169.N1	12-MAR-2012 20:20:16	Dark	45.000	141	Bet Ara	2.8400	4600.0	90	52485	No
18	GOM_NL__2PRFIN20120312_220030_000000433112_00317_52486_4174.N1	12-MAR-2012 22:00:30	Dark	42.500	141	Bet Ara	2.8400	4600.0	85	52486	No
19	GOM_NL__2PRFIN20120312_234045_000000413112_00318_52487_4184.N1	12-MAR-2012 23:40:45	Dark	41.000	141	Bet Ara	2.8400	4600.0	82	52487	No

3. Quality information per product

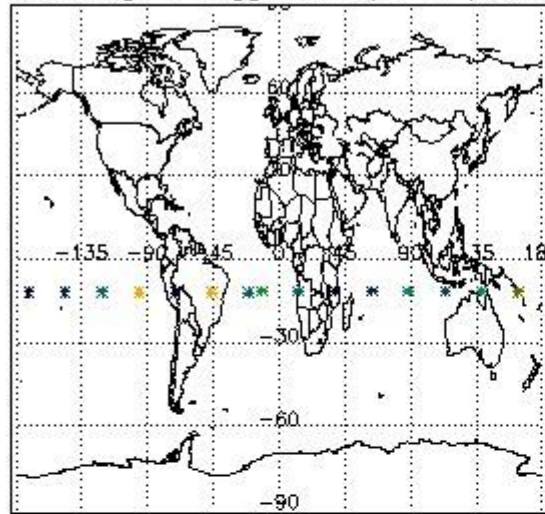
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

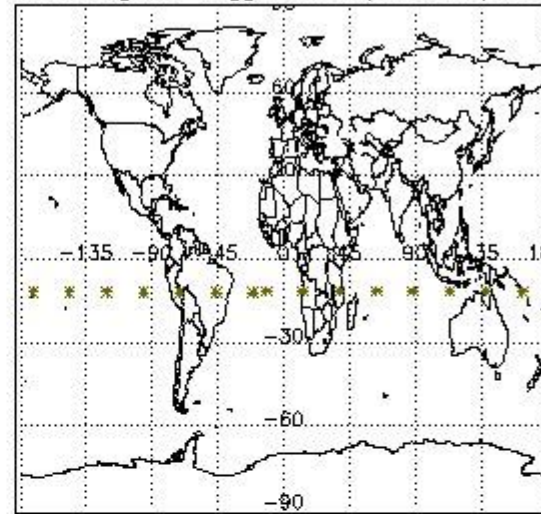


3.2 Plot quality information per product (world map)

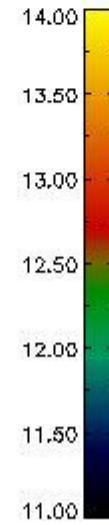
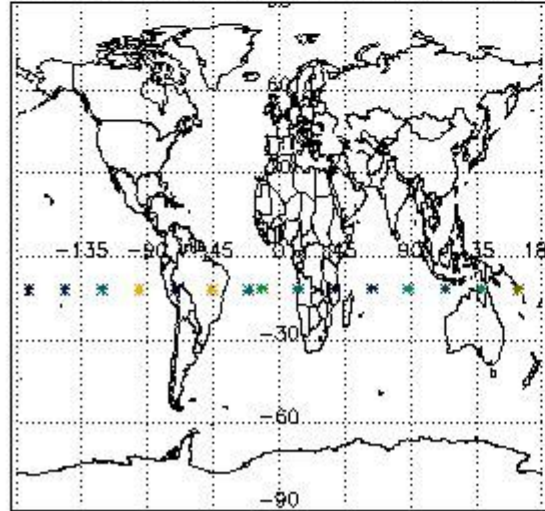
Percentage of flagged data per O3 profile



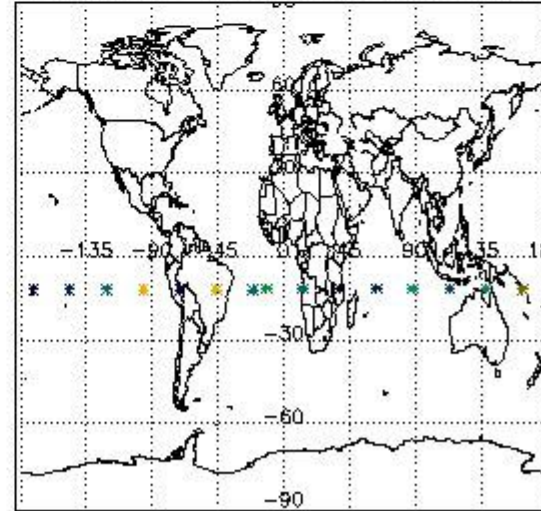
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

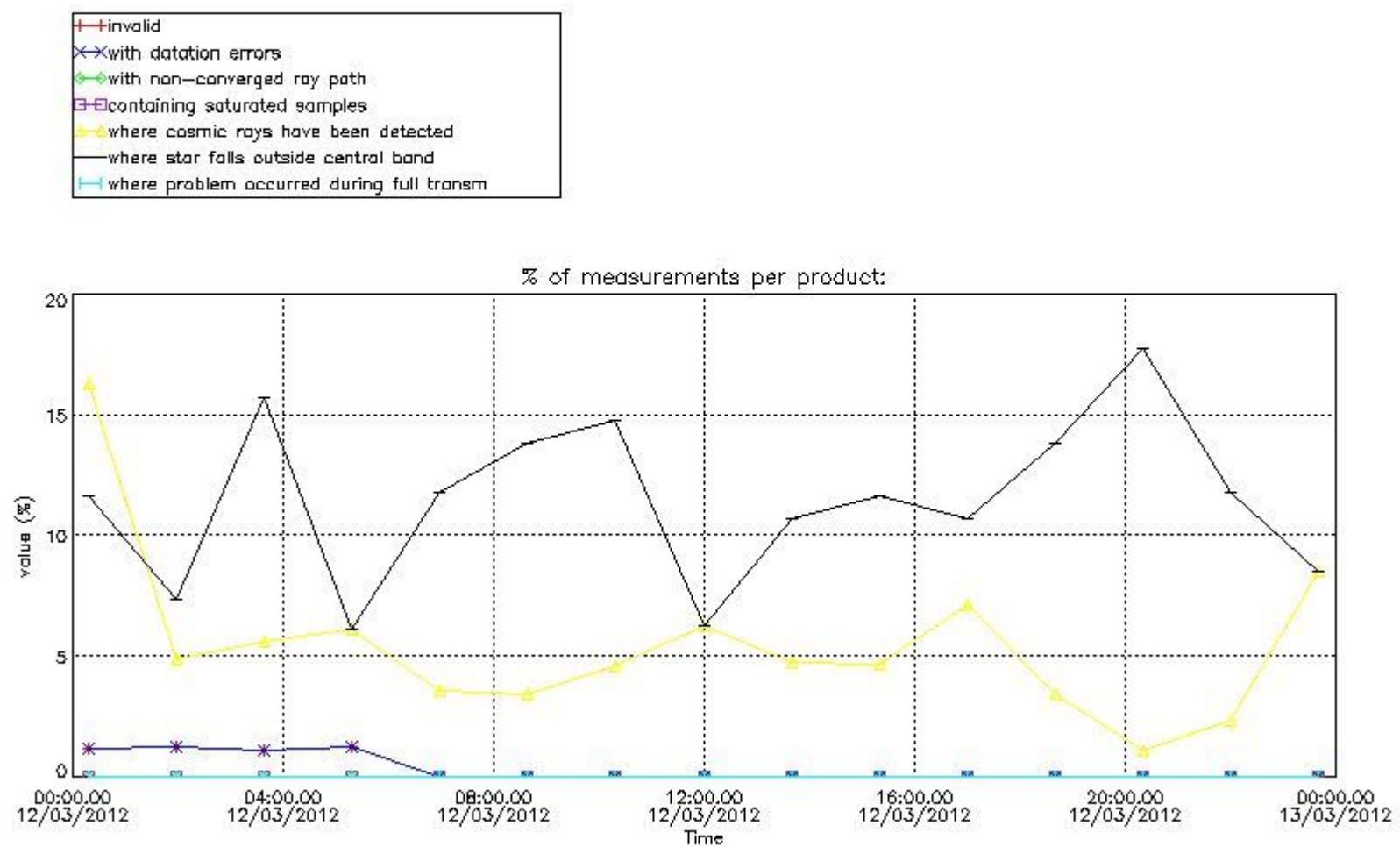


4. Level 1 quality information per product

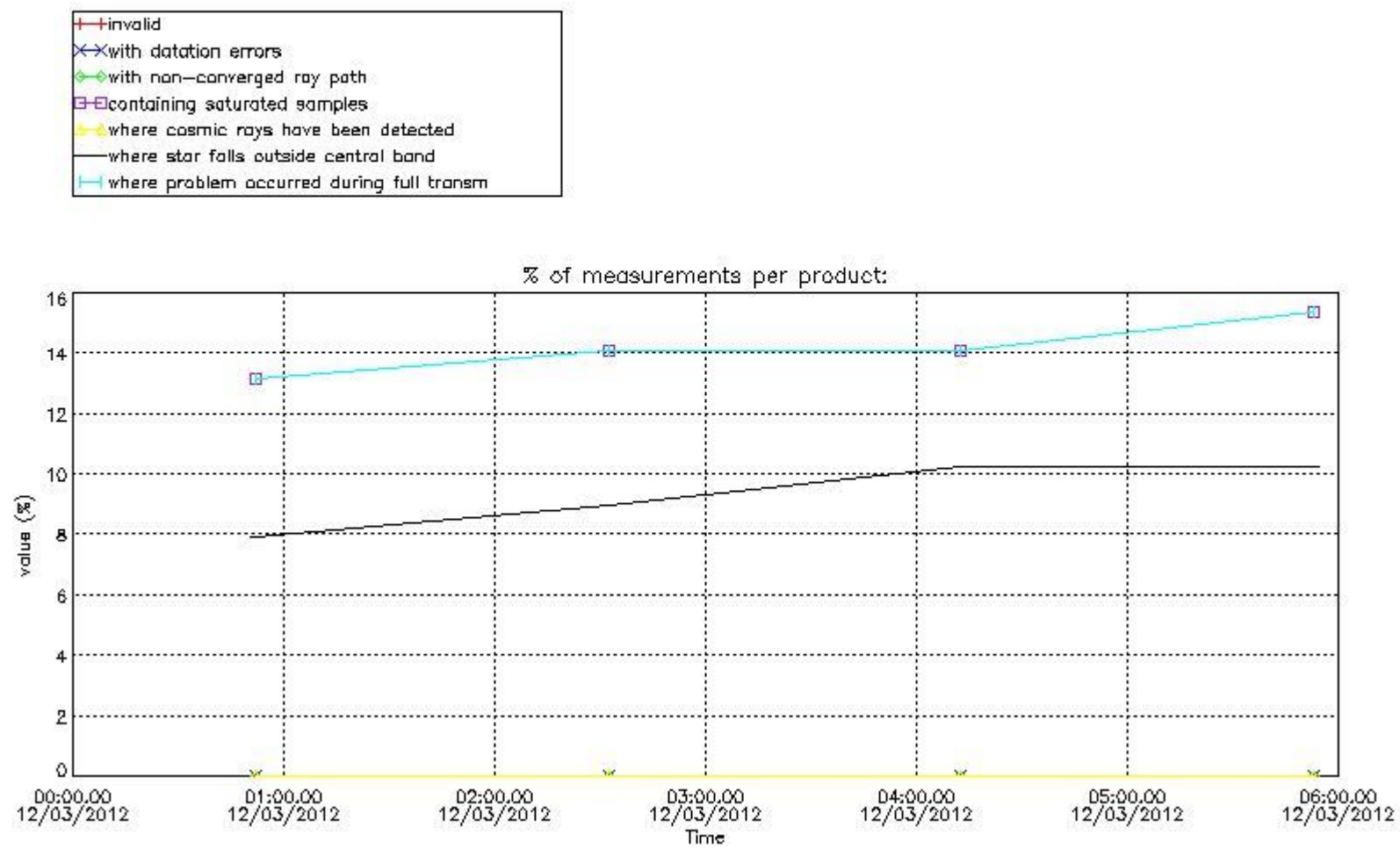
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



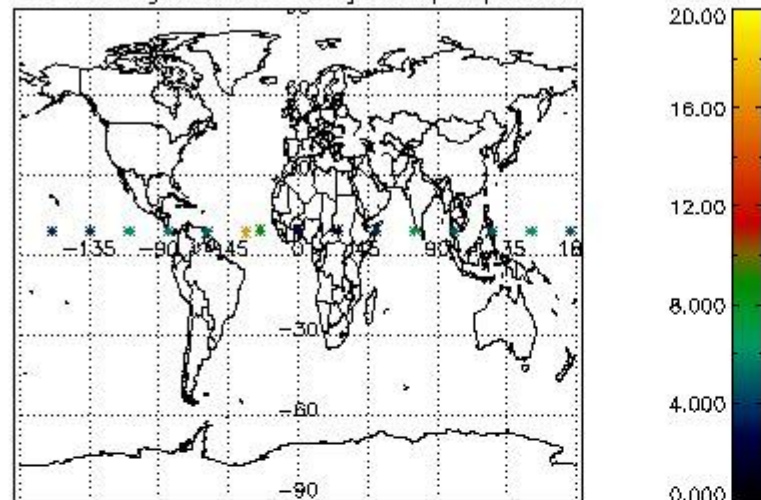
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



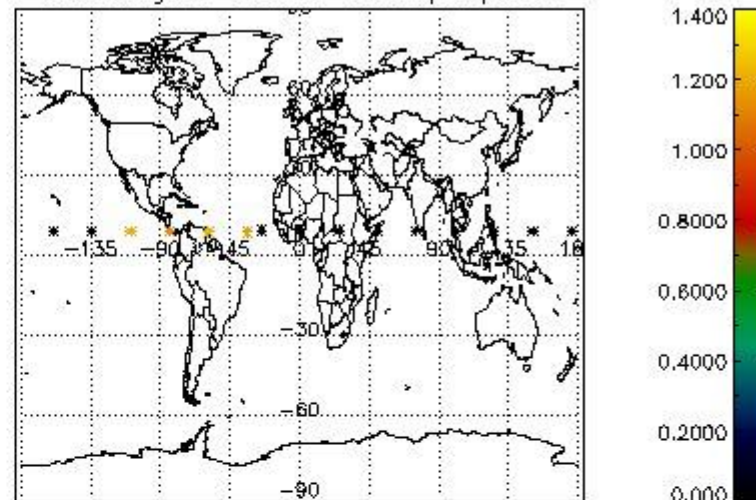
4.2 Plot quality information per product coming from level 1b processing (world map)

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

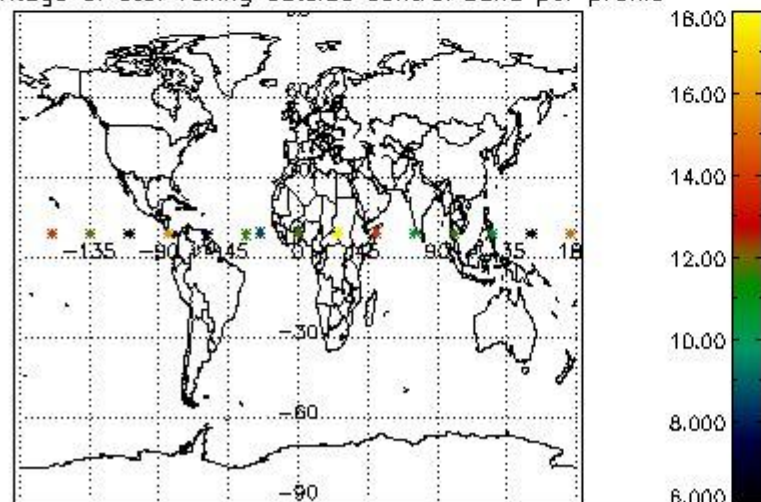
Percentage of cosmic ray hits per profile



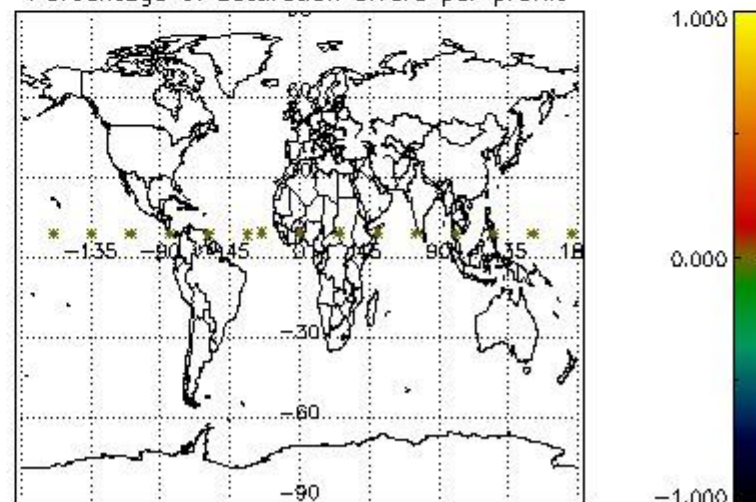
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

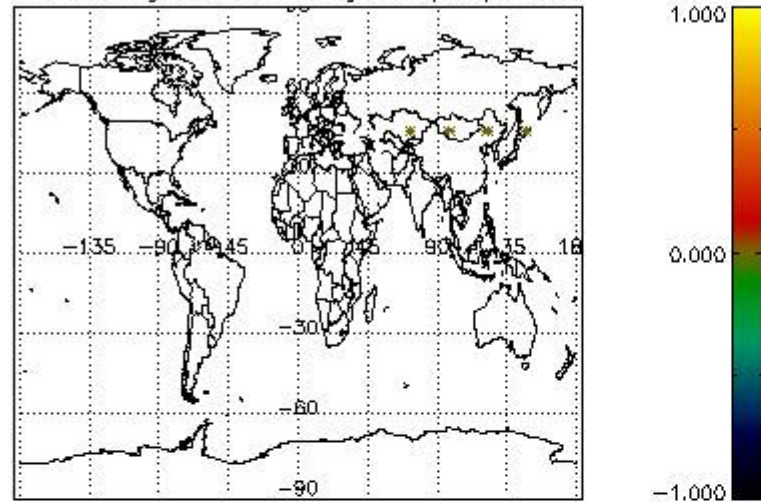


Percentage of saturation errors per profile

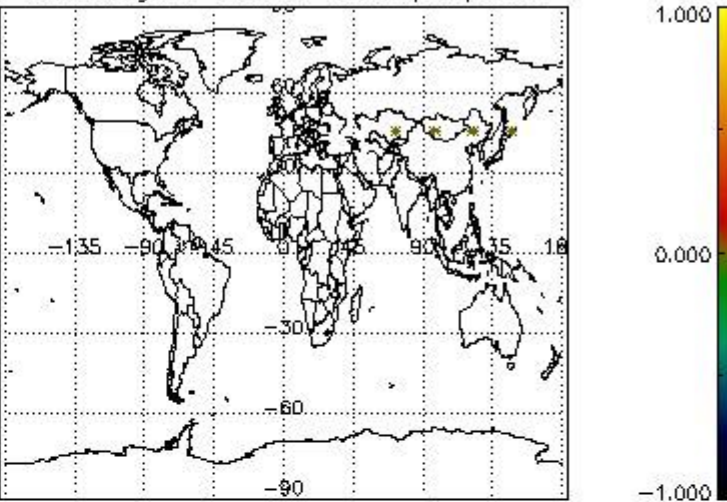


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

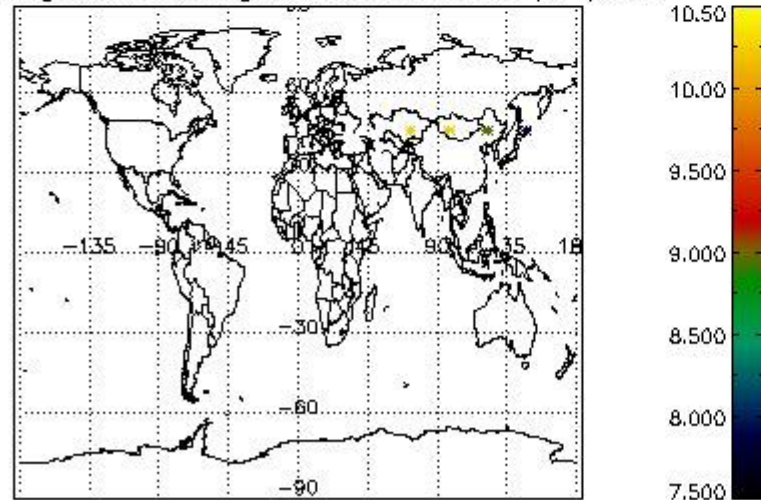
Percentage of cosmic ray hits per profile



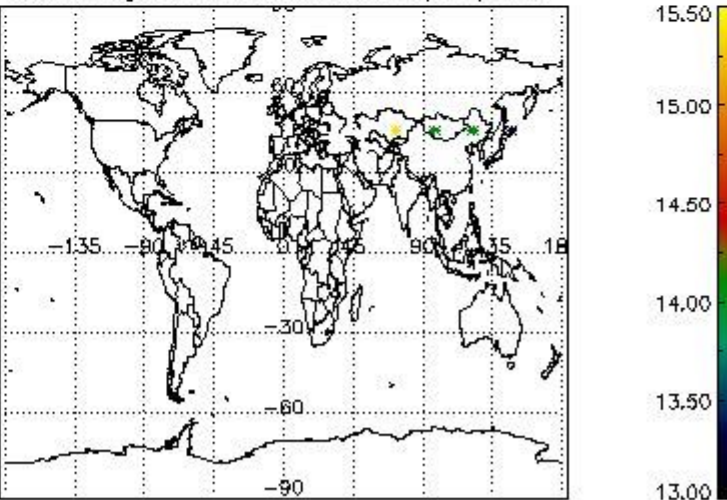
Percentage of datation errors per profile



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

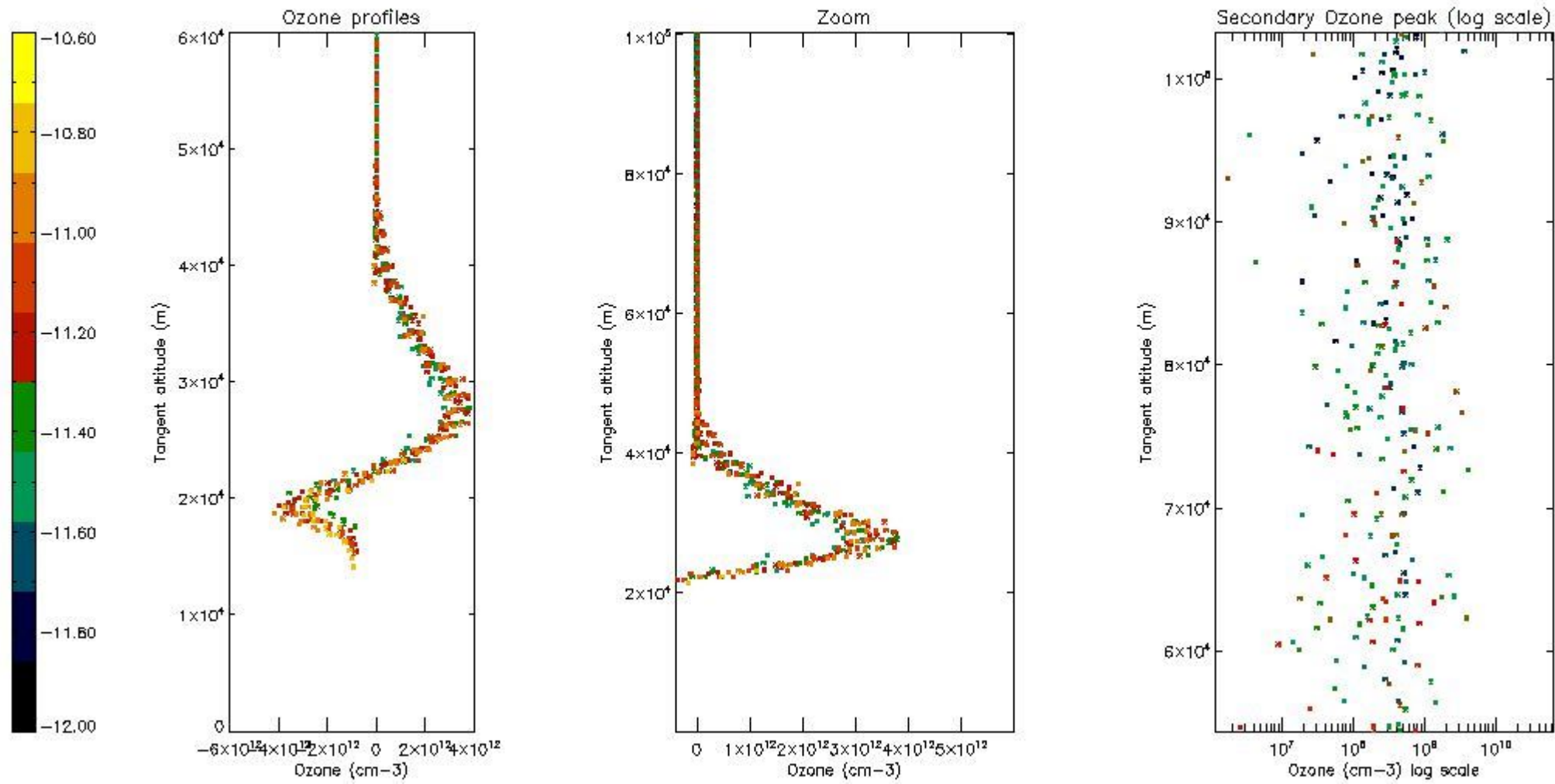
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	82
STD < 20	17

STD < 10	4
STD < 5	1

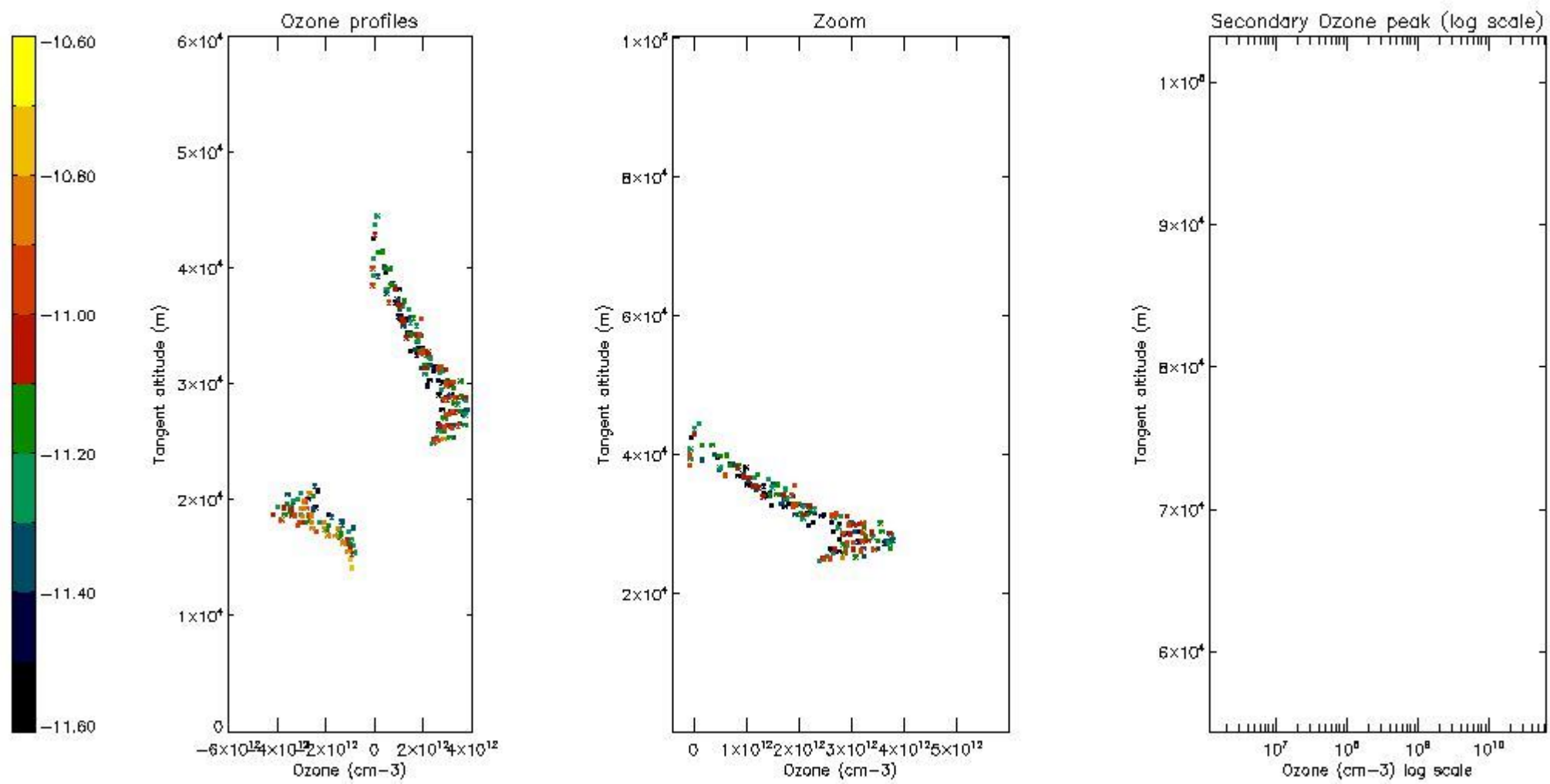
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



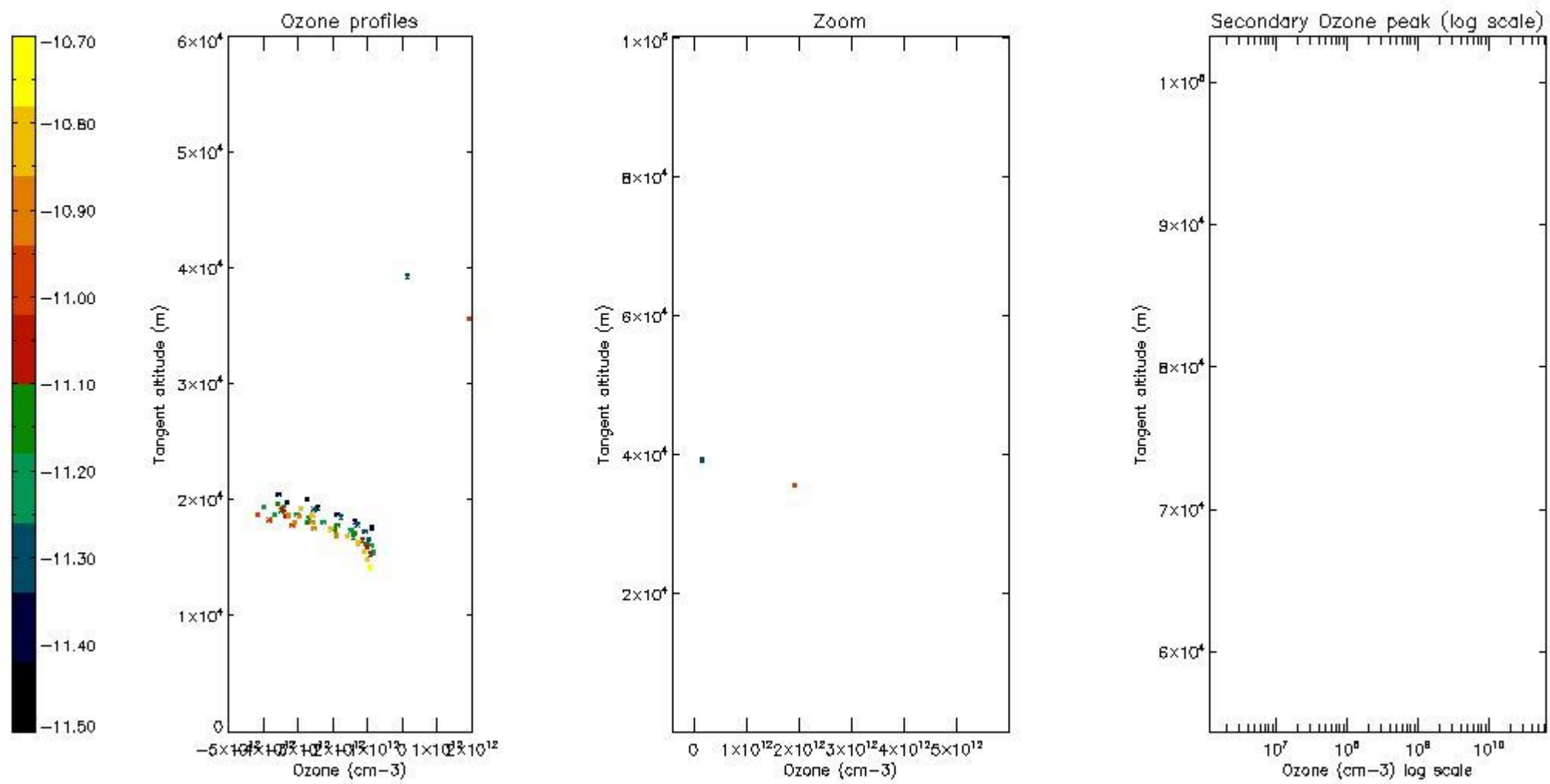
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



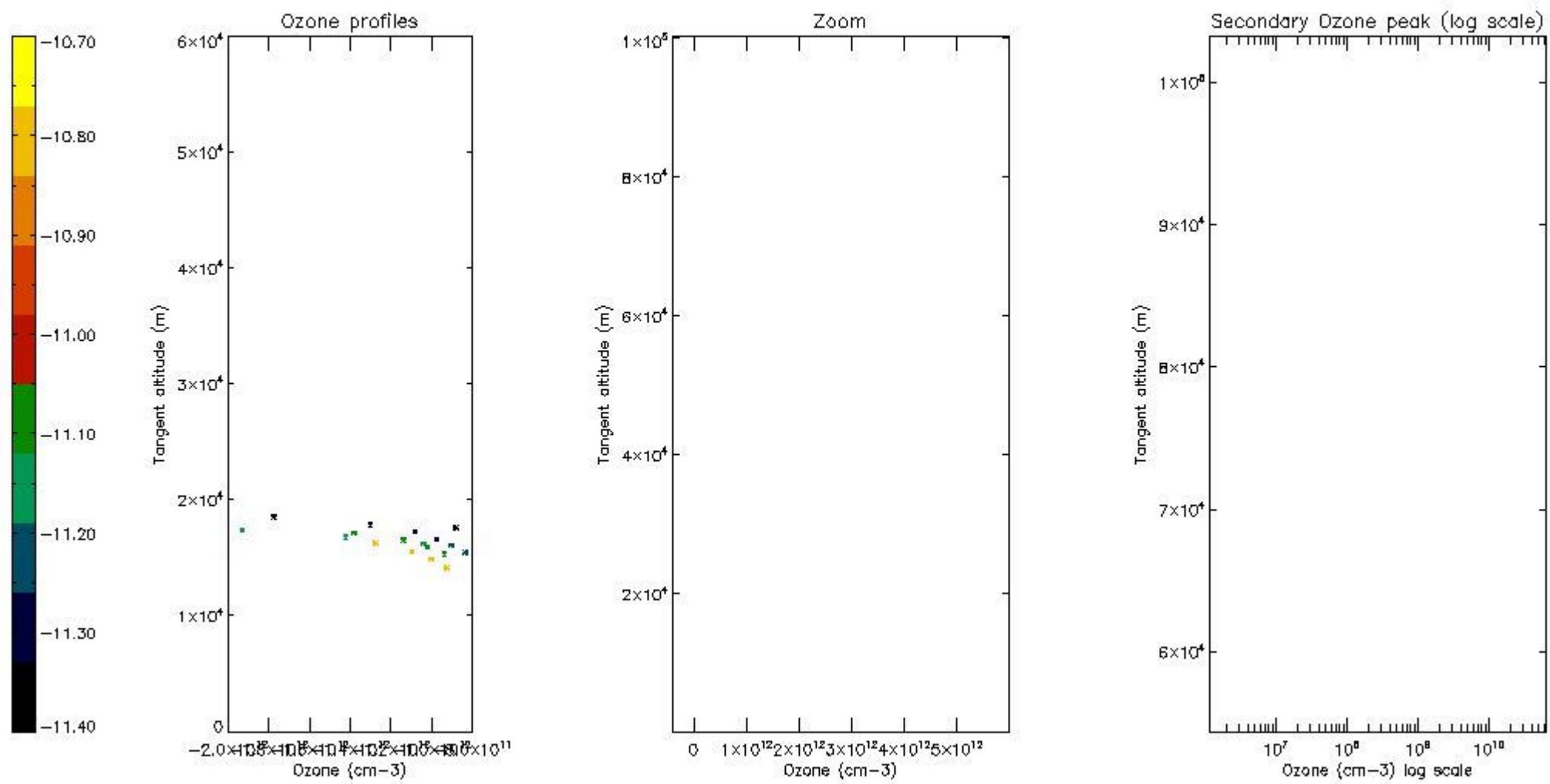
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



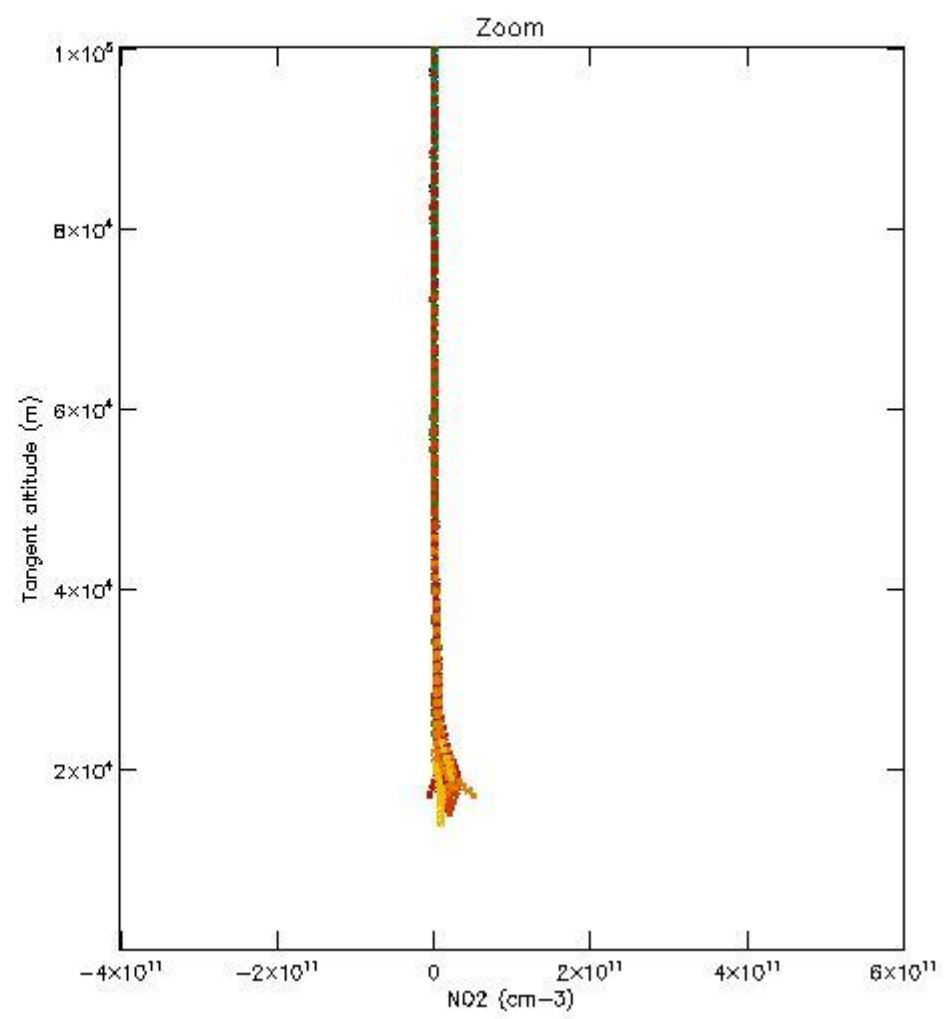
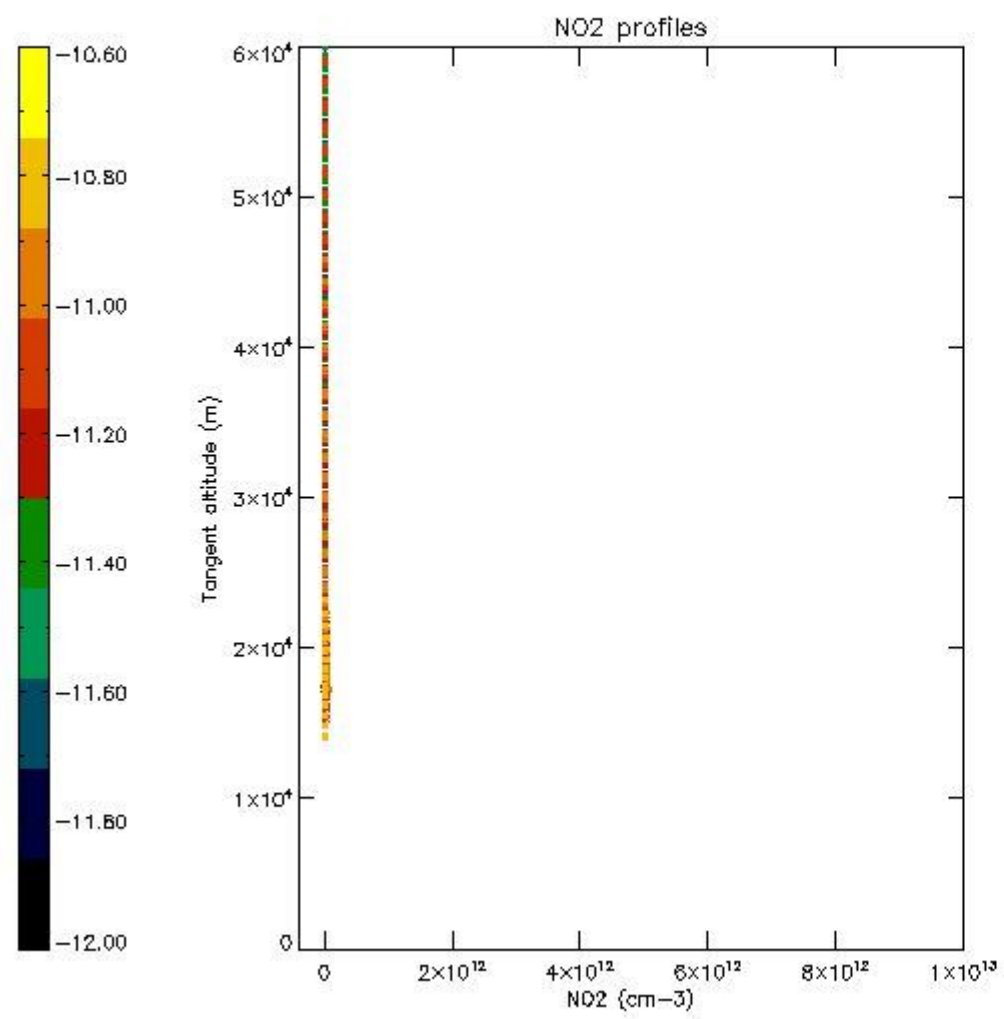
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



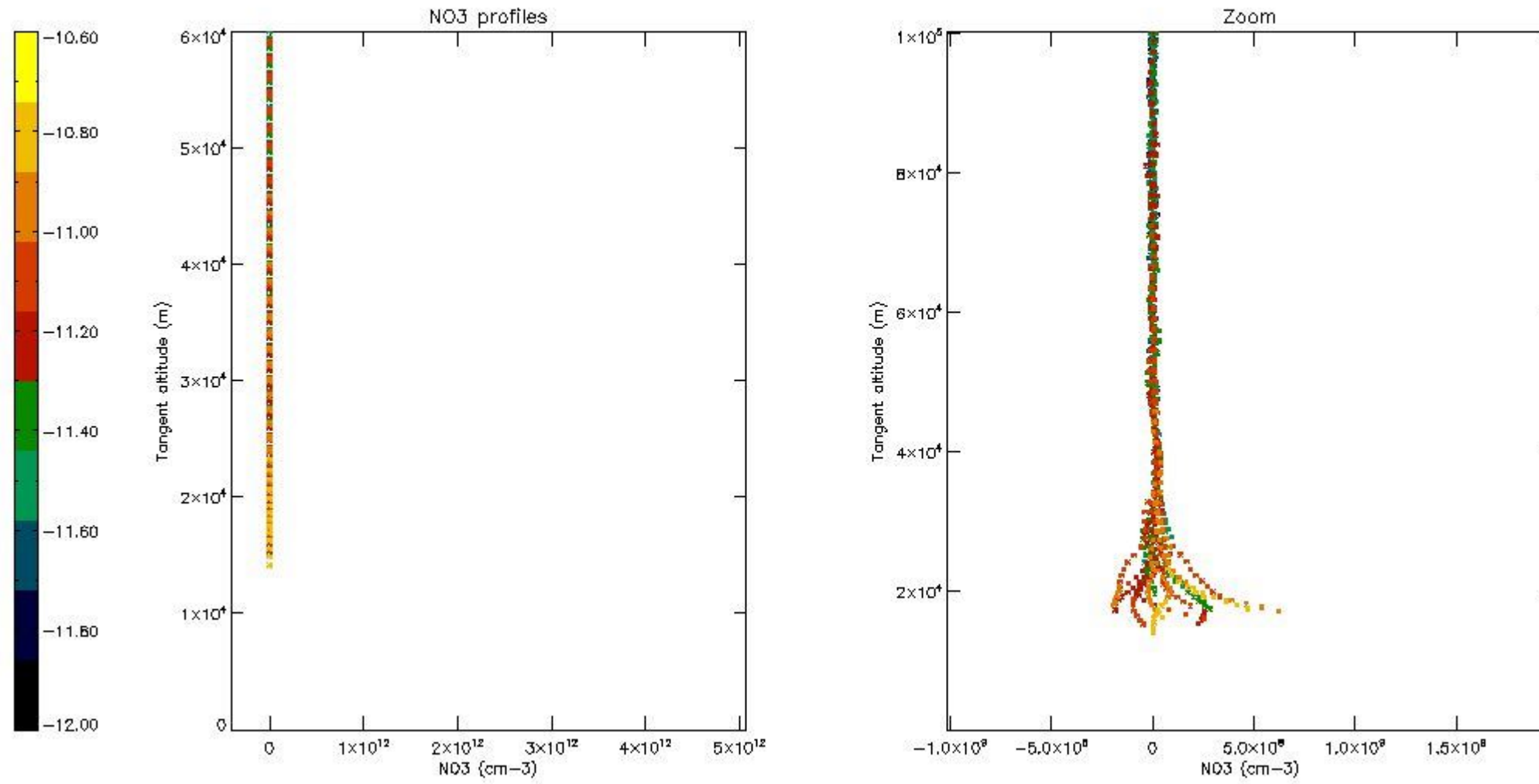
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

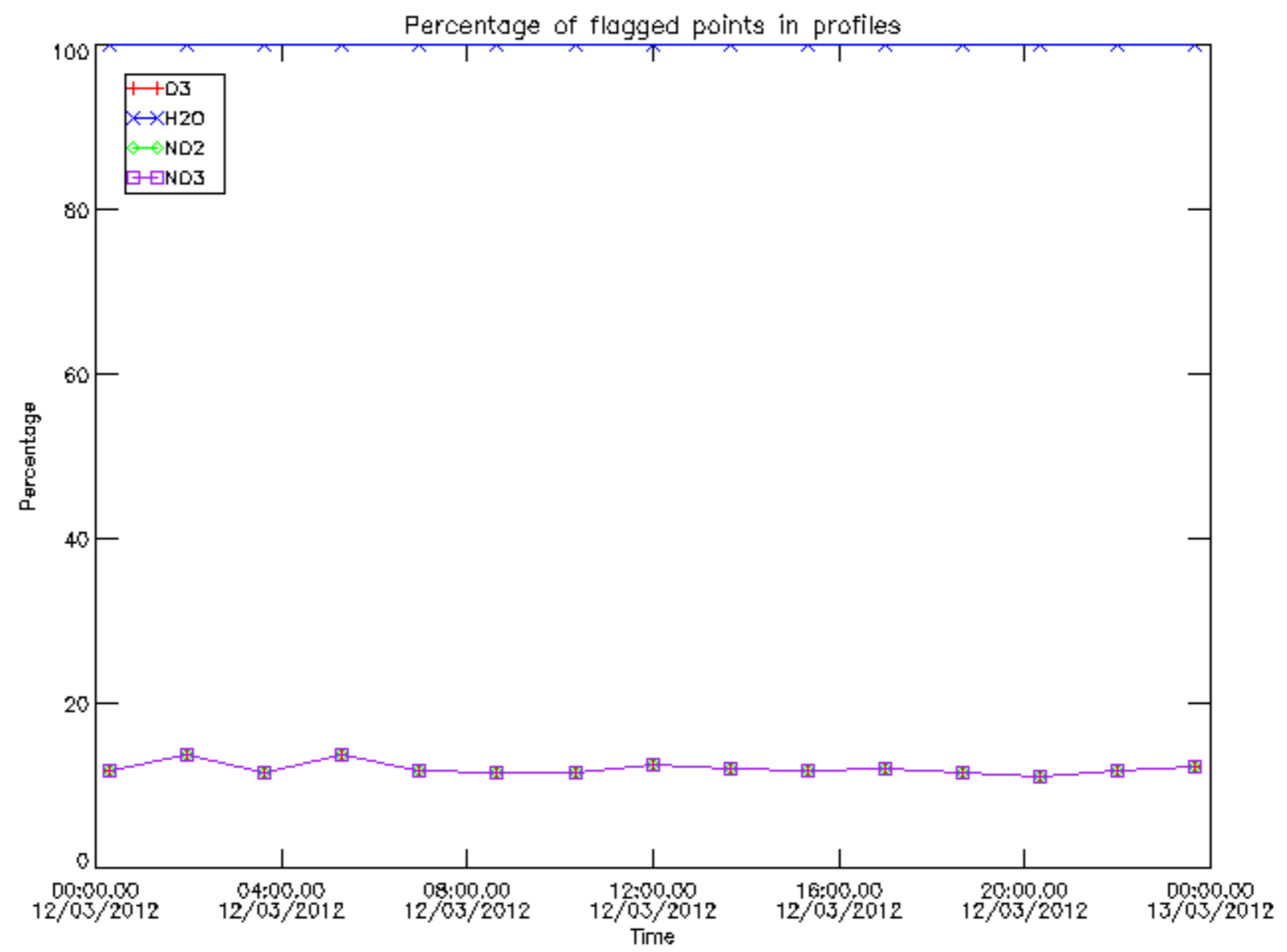
The colorbar represents the latitude.



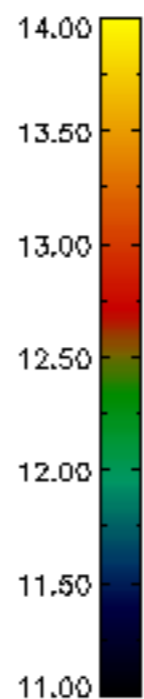
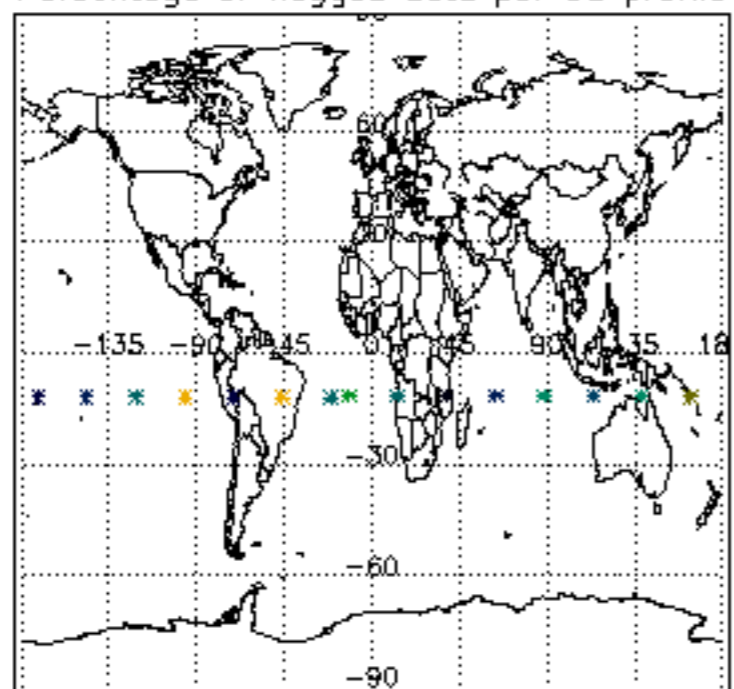
6. Auxiliary Data Files used for the production reported in section 2

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.

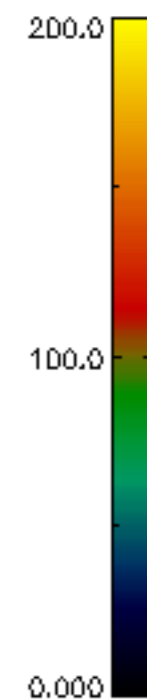
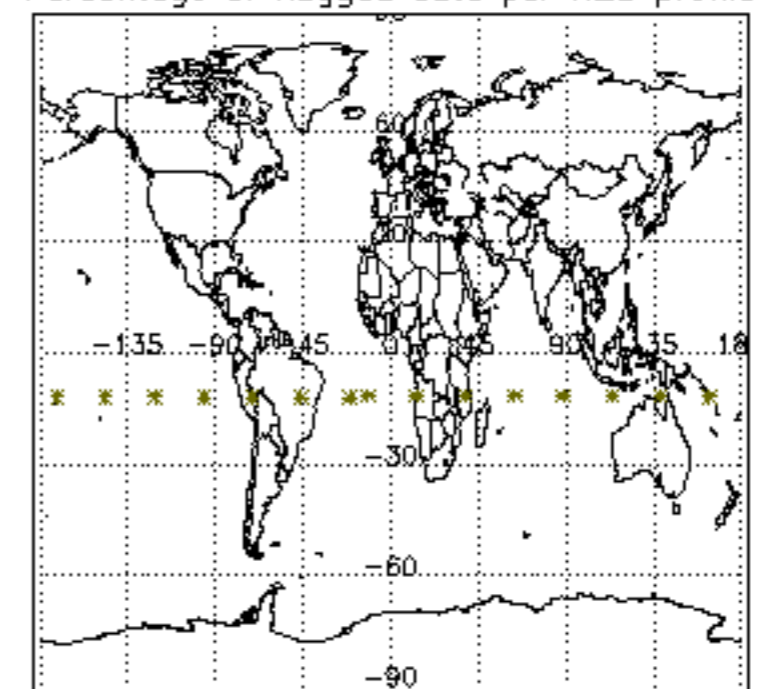
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	12-MAR-2012 00:17:20
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	12-MAR-2012 00:17:20
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	12-MAR-2012 00:17:20



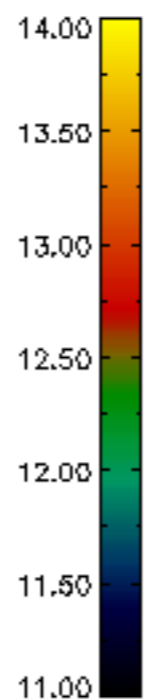
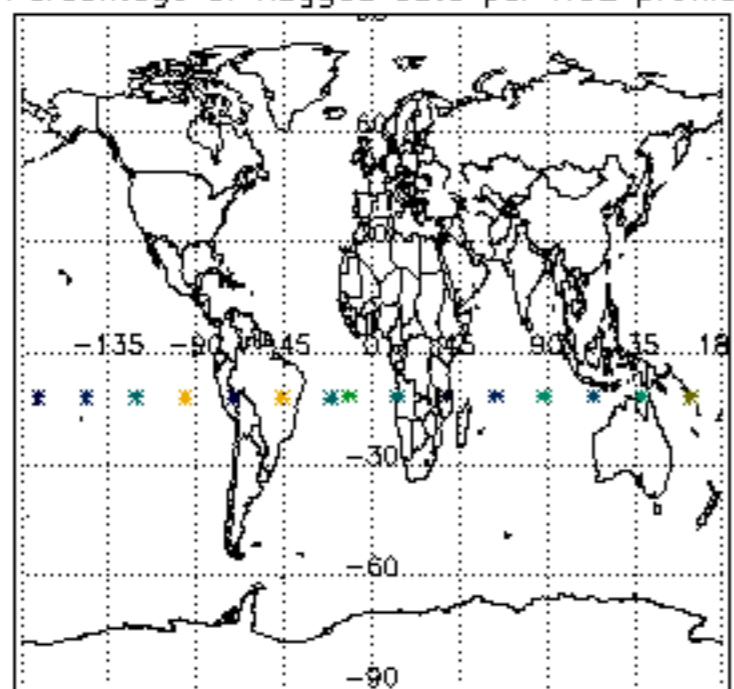
Percentage of flagged data per D3 profile



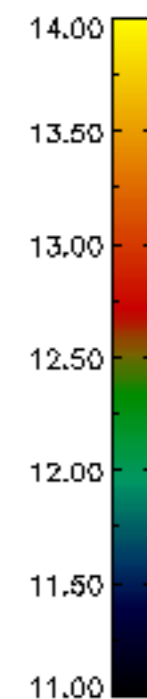
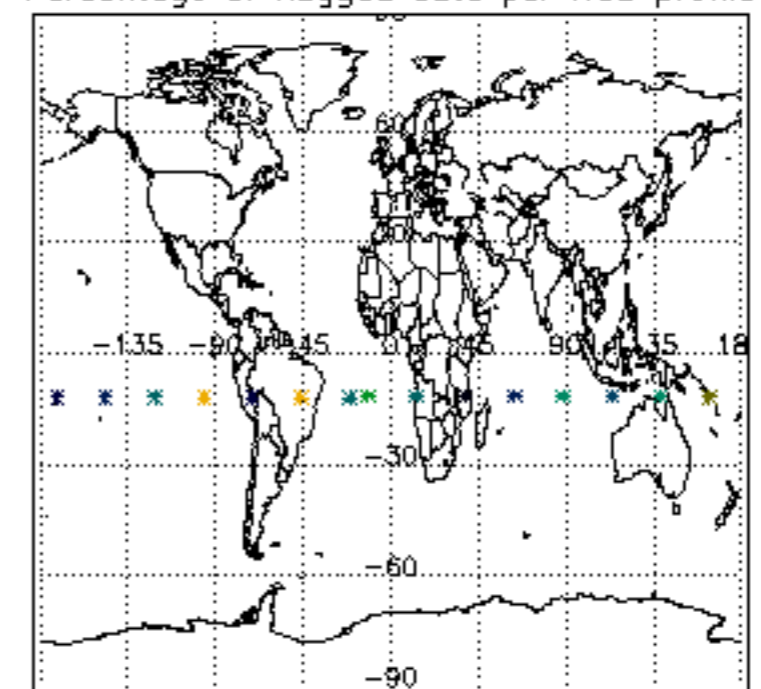
Percentage of flagged data per H2O profile

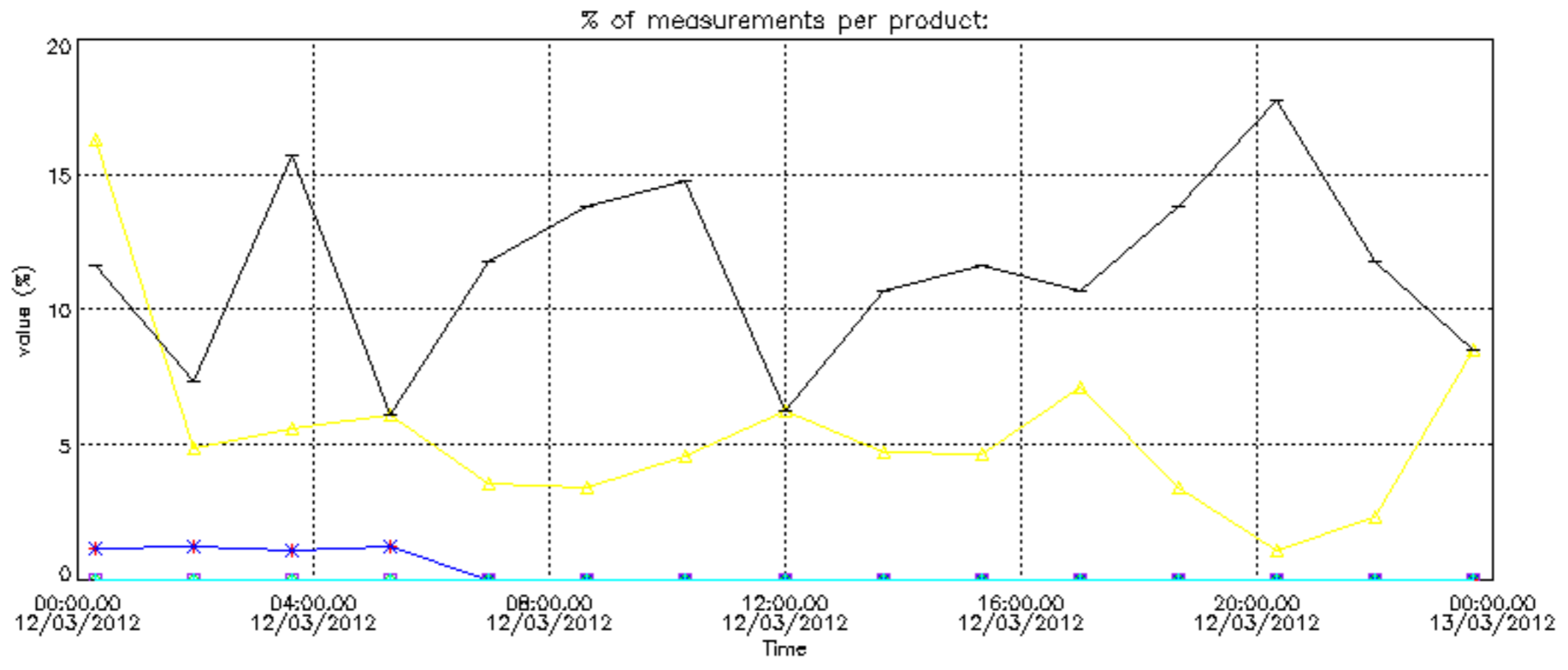


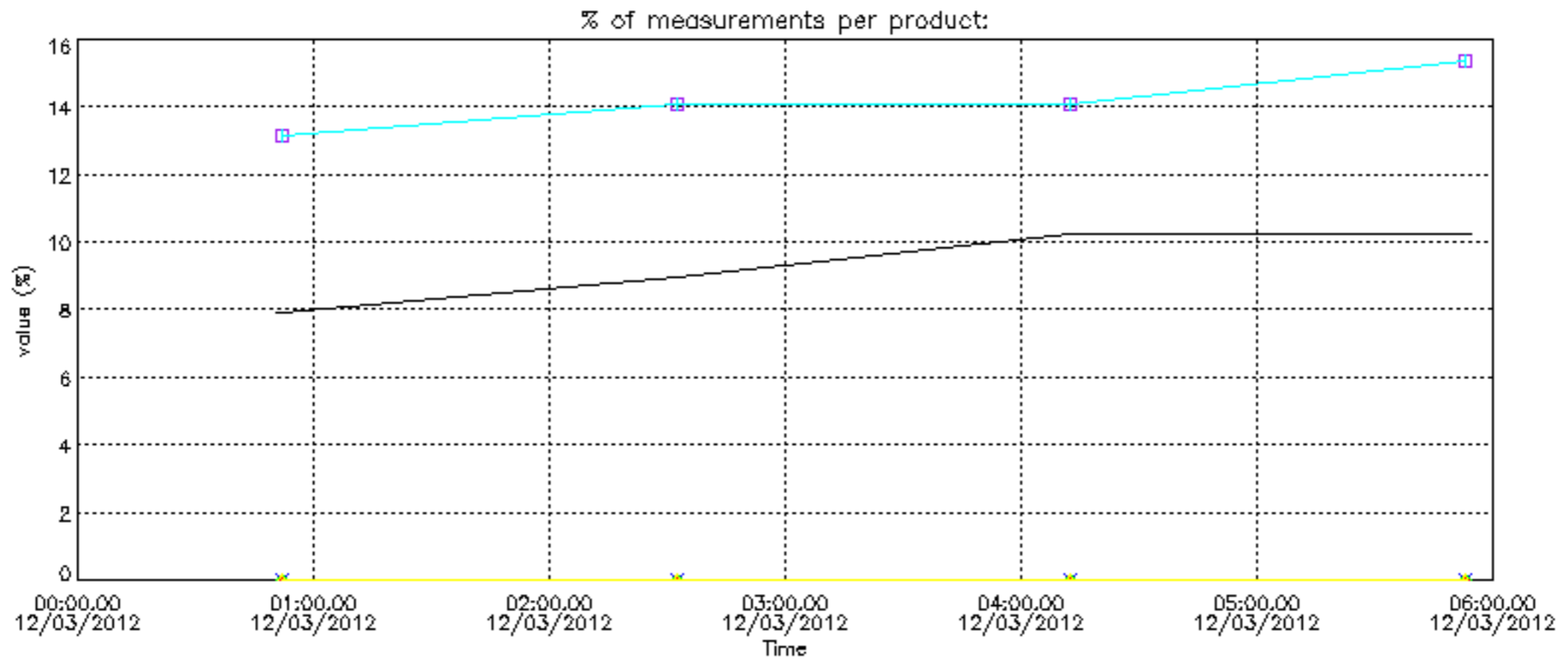
Percentage of flagged data per NO2 profile



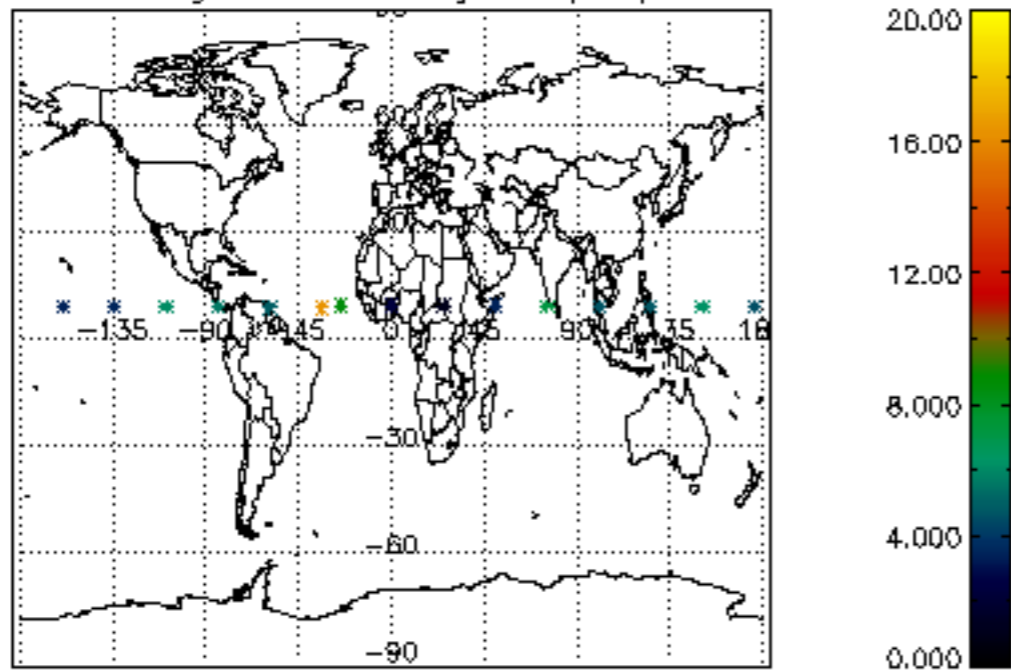
Percentage of flagged data per NO3 profile



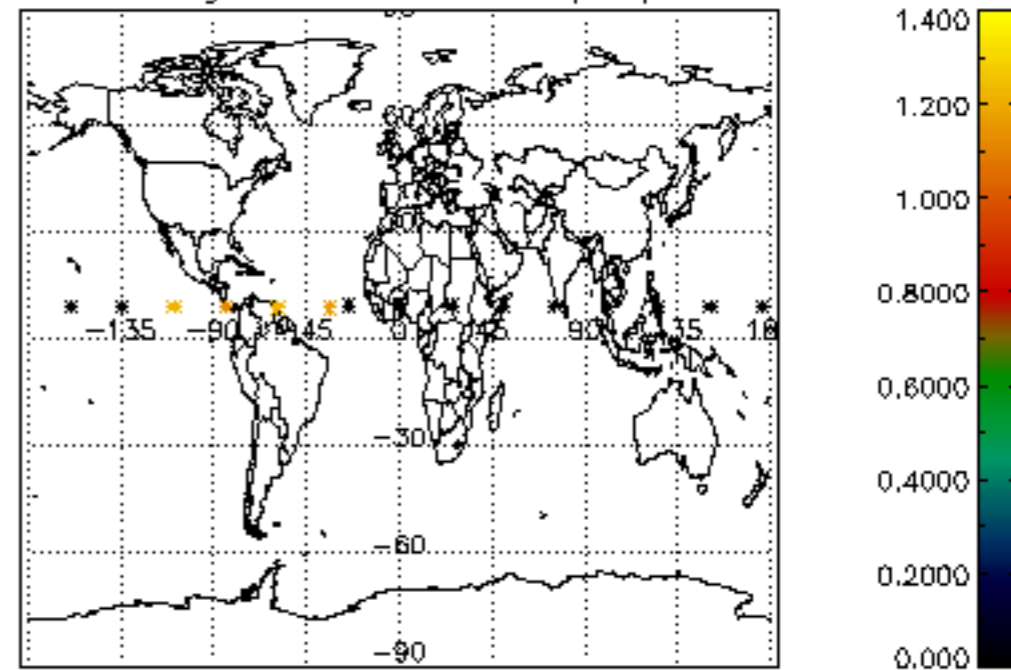




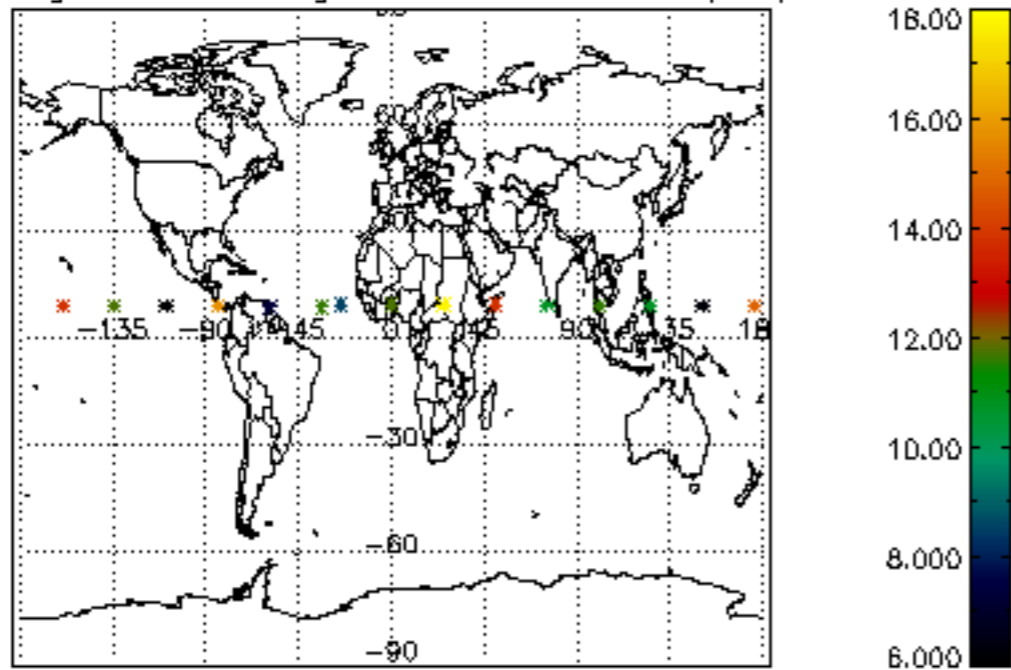
Percentage of cosmic ray hits per profile



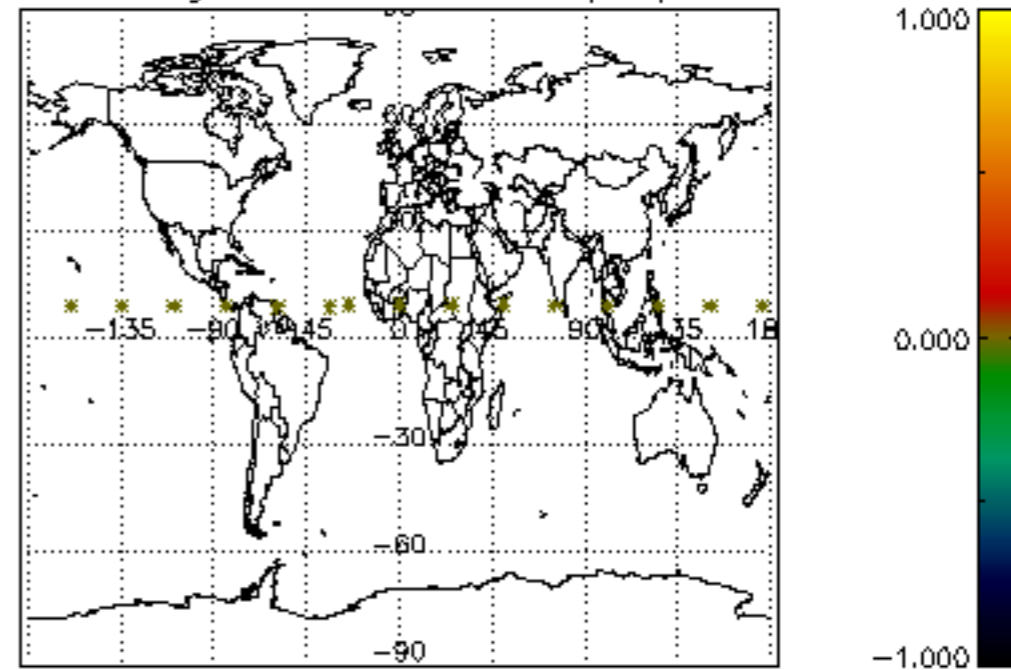
Percentage of datation errors per profile



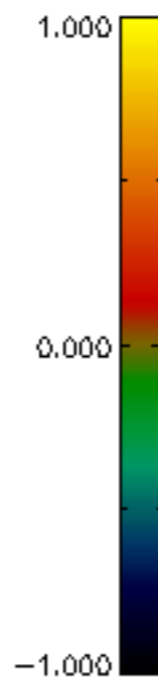
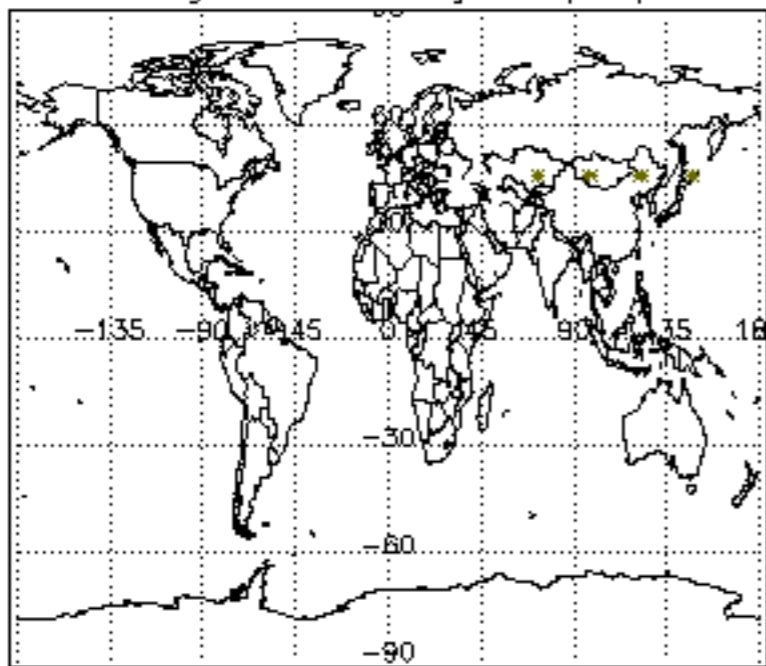
Percentage of star falling outside central band per profile



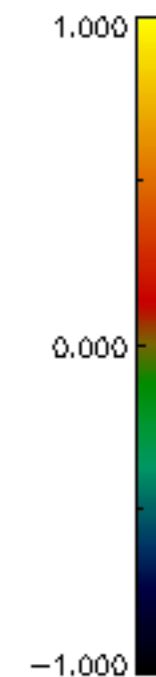
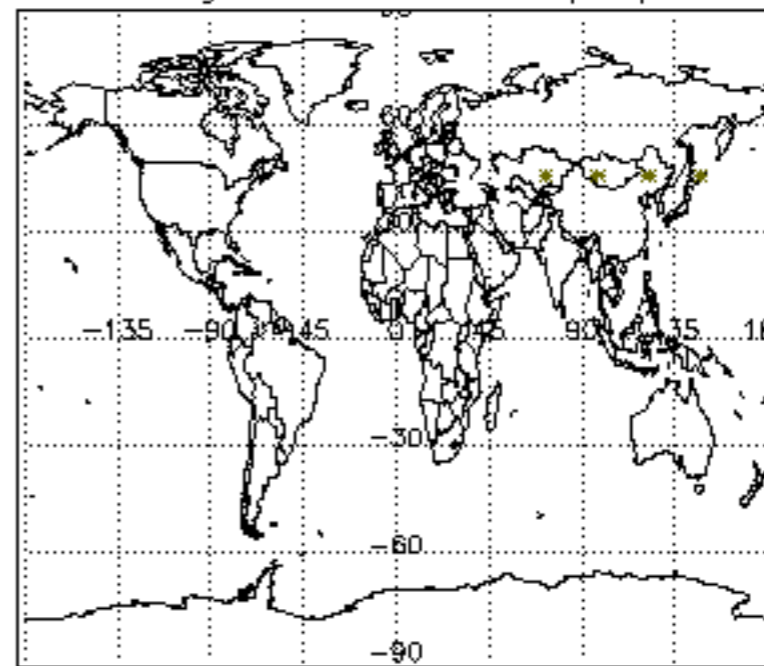
Percentage of saturation errors per profile



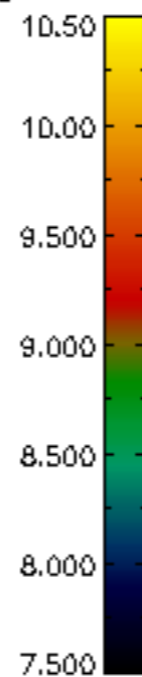
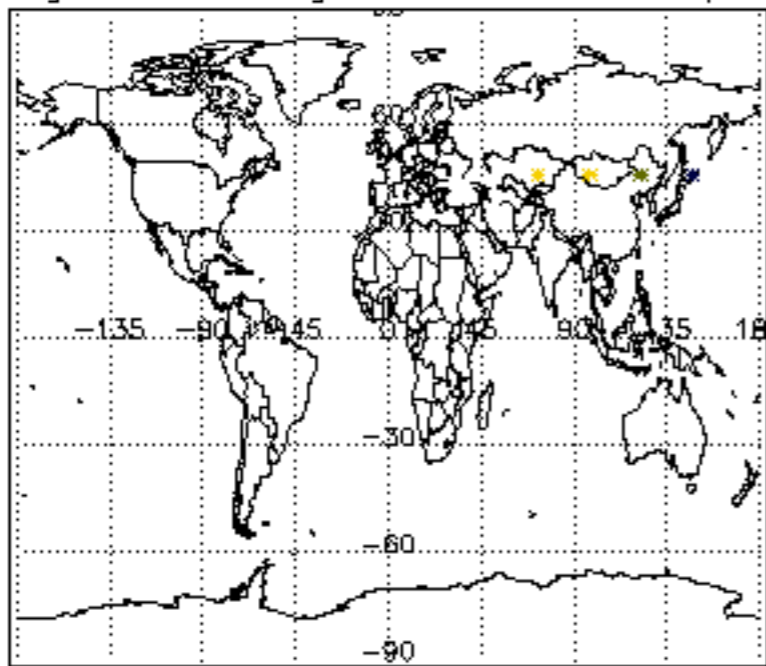
Percentage of cosmic ray hits per profile



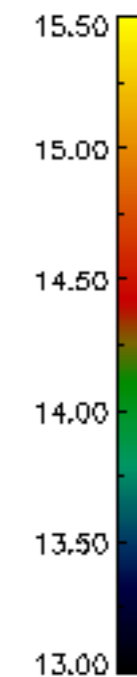
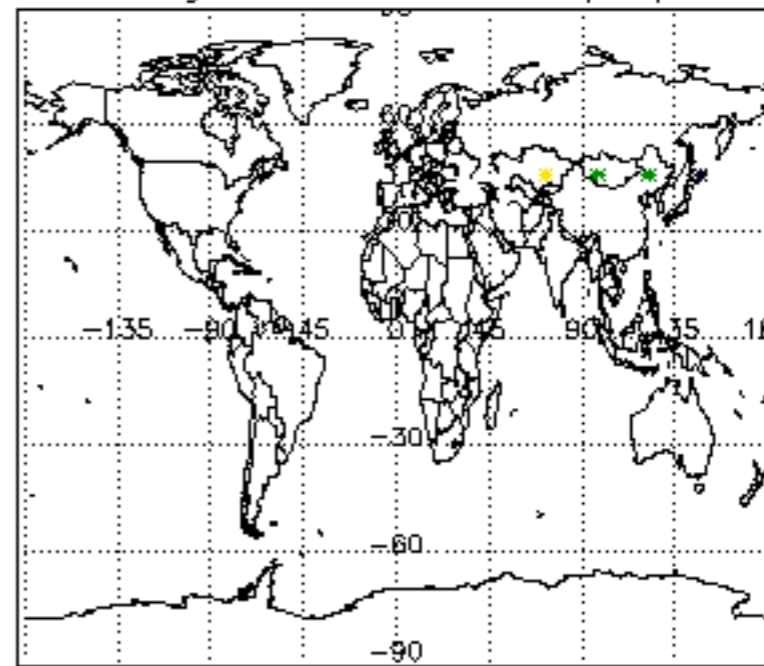
Percentage of datation errors per profile

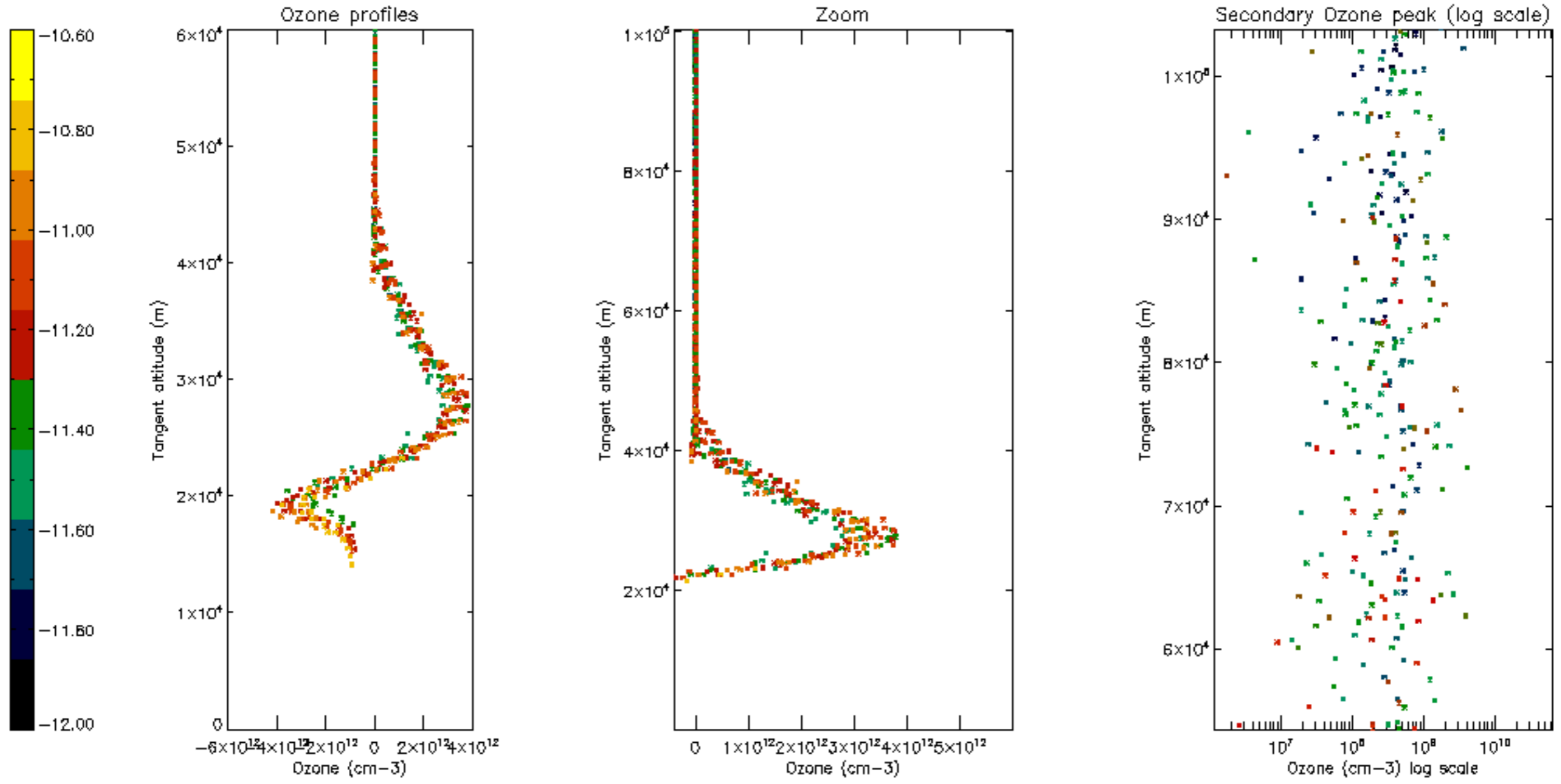


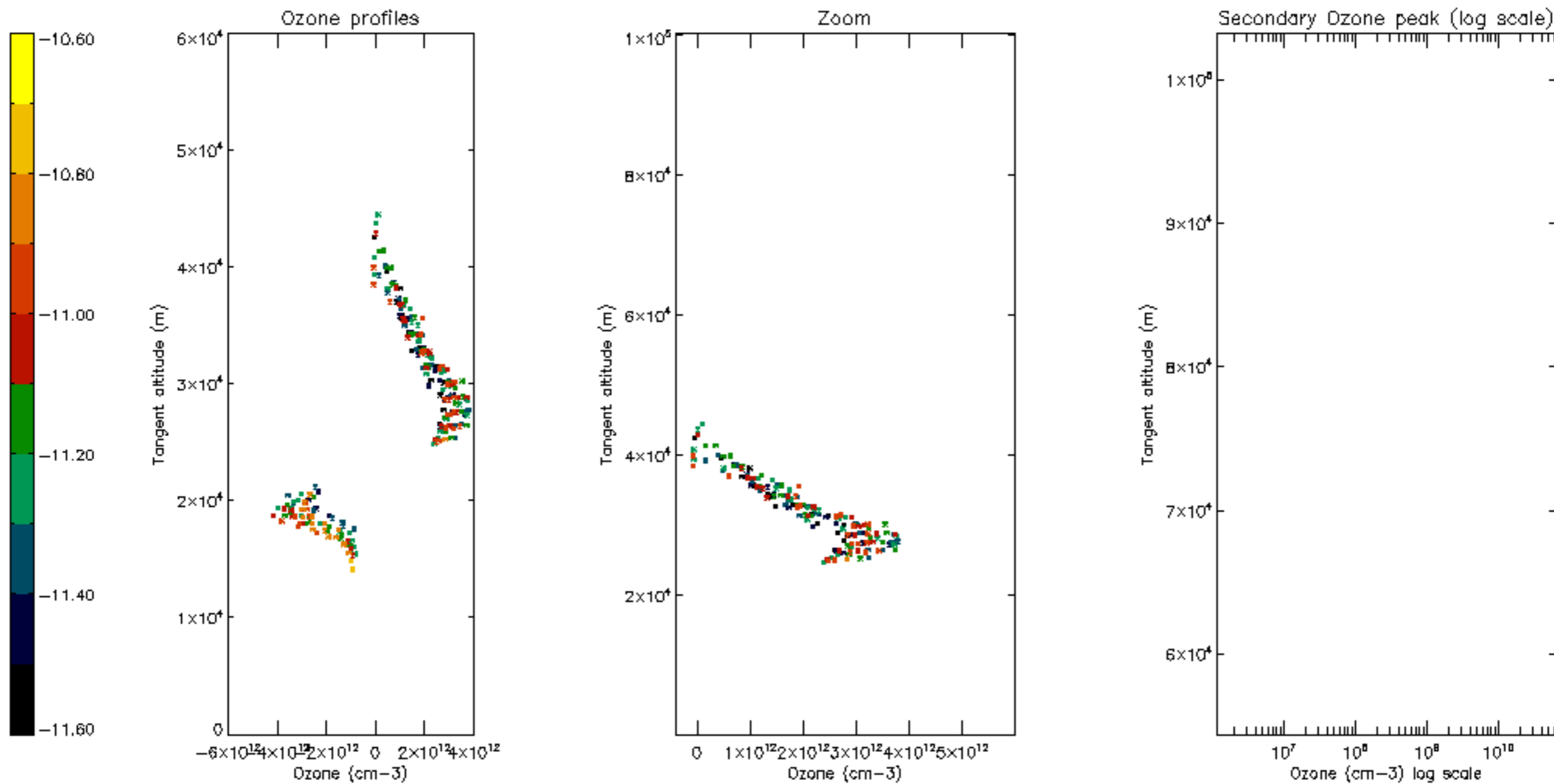
Percentage of star falling outside central band per profile

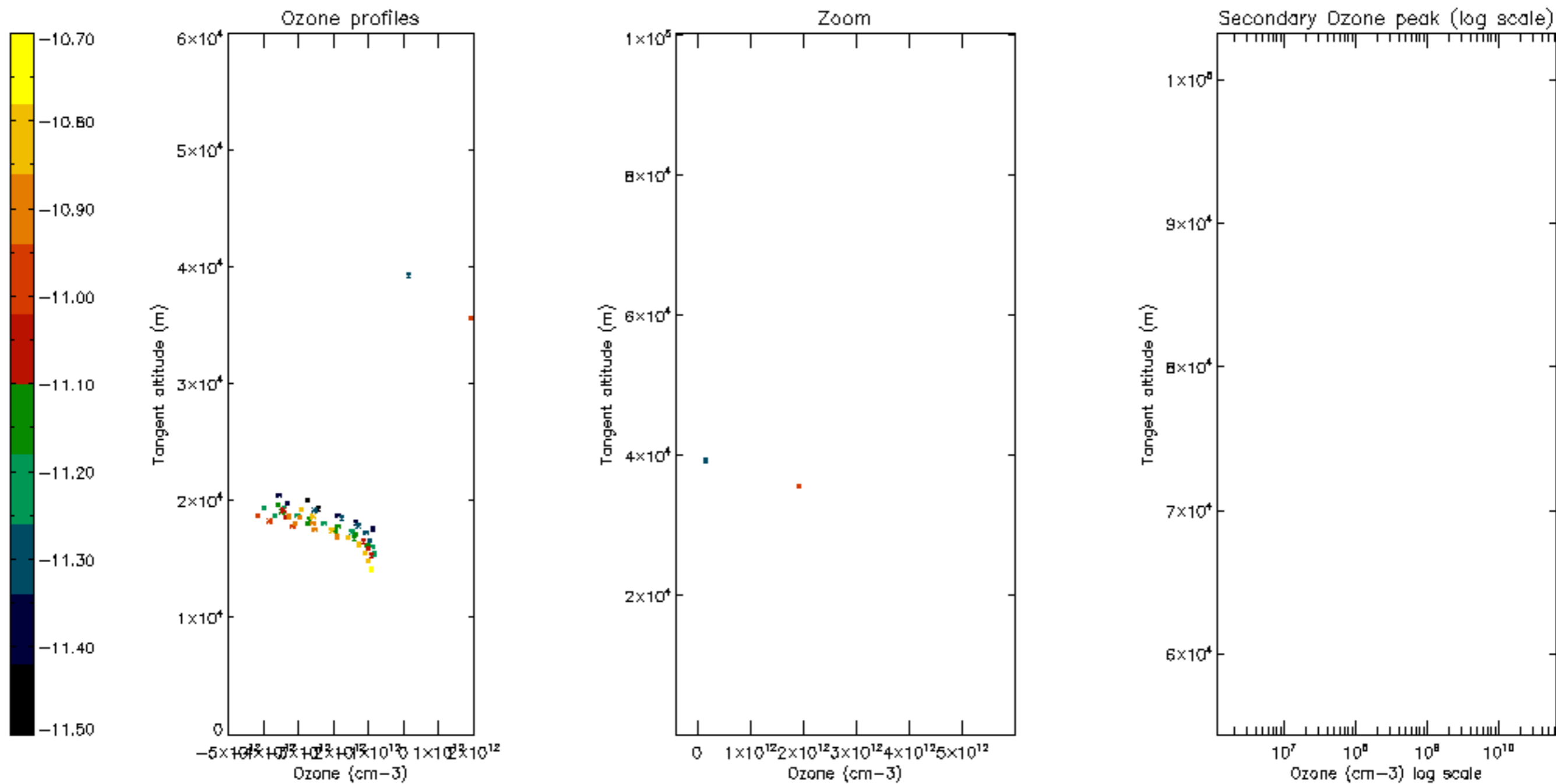


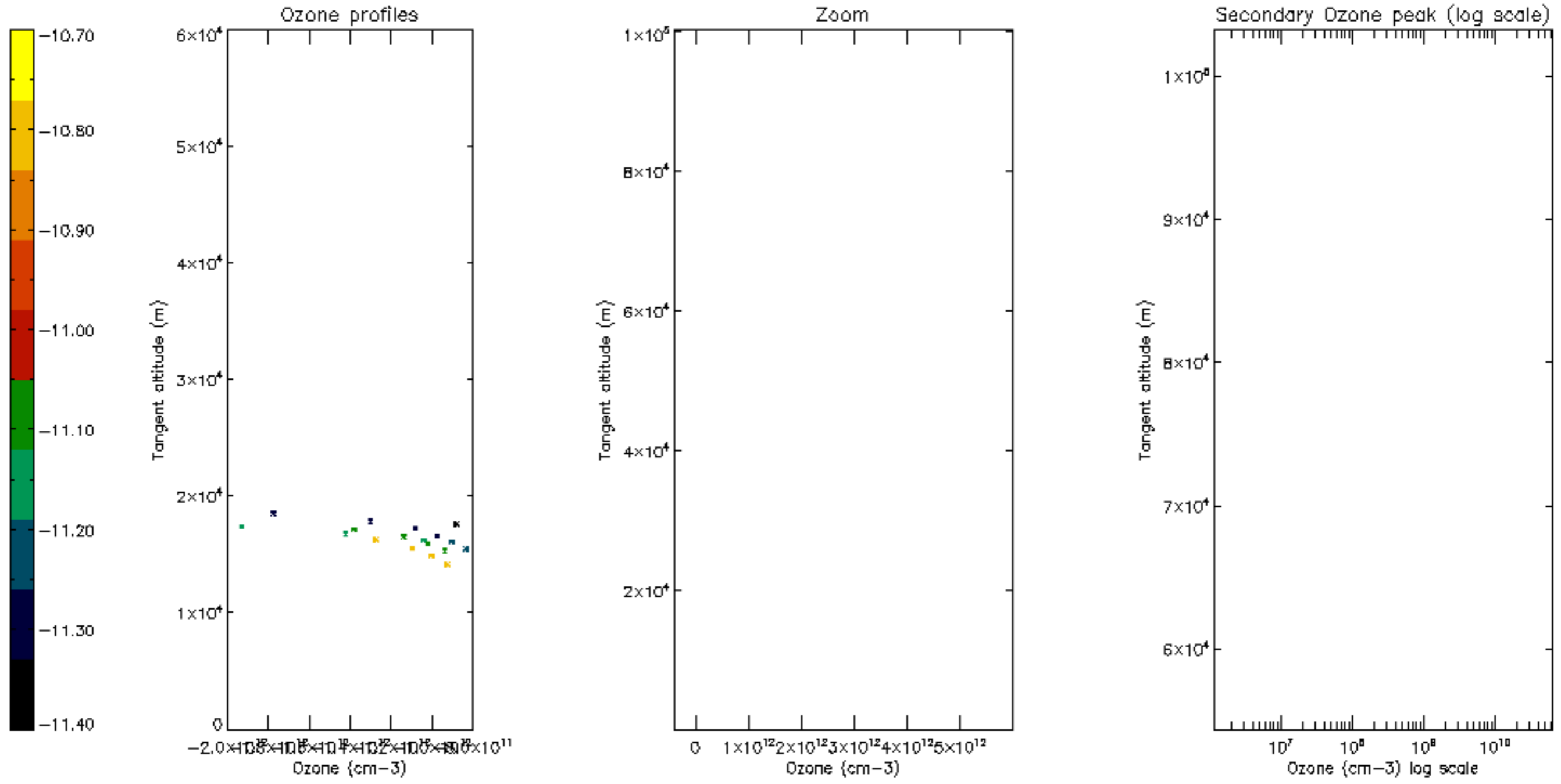
Percentage of saturation errors per profile

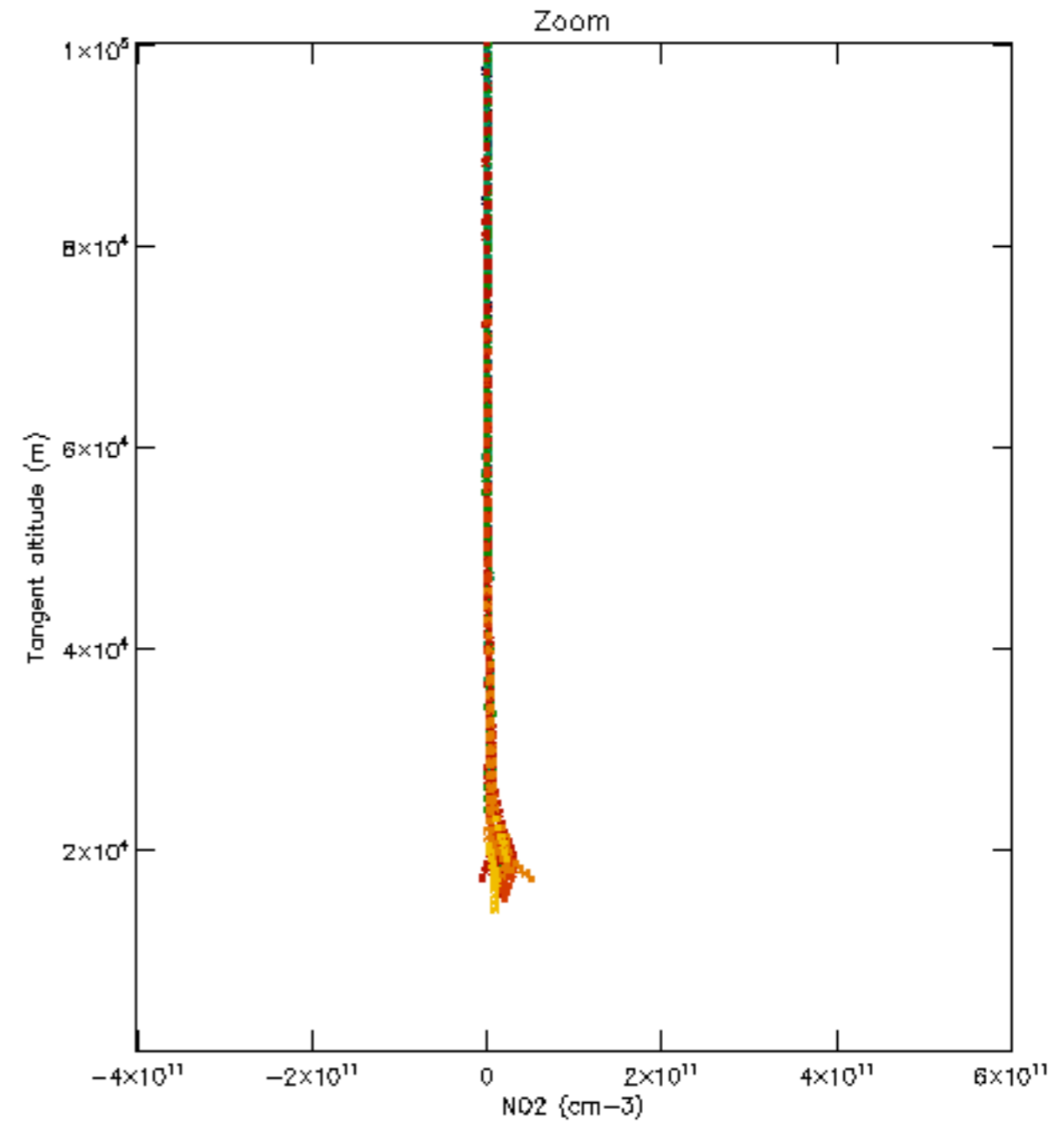
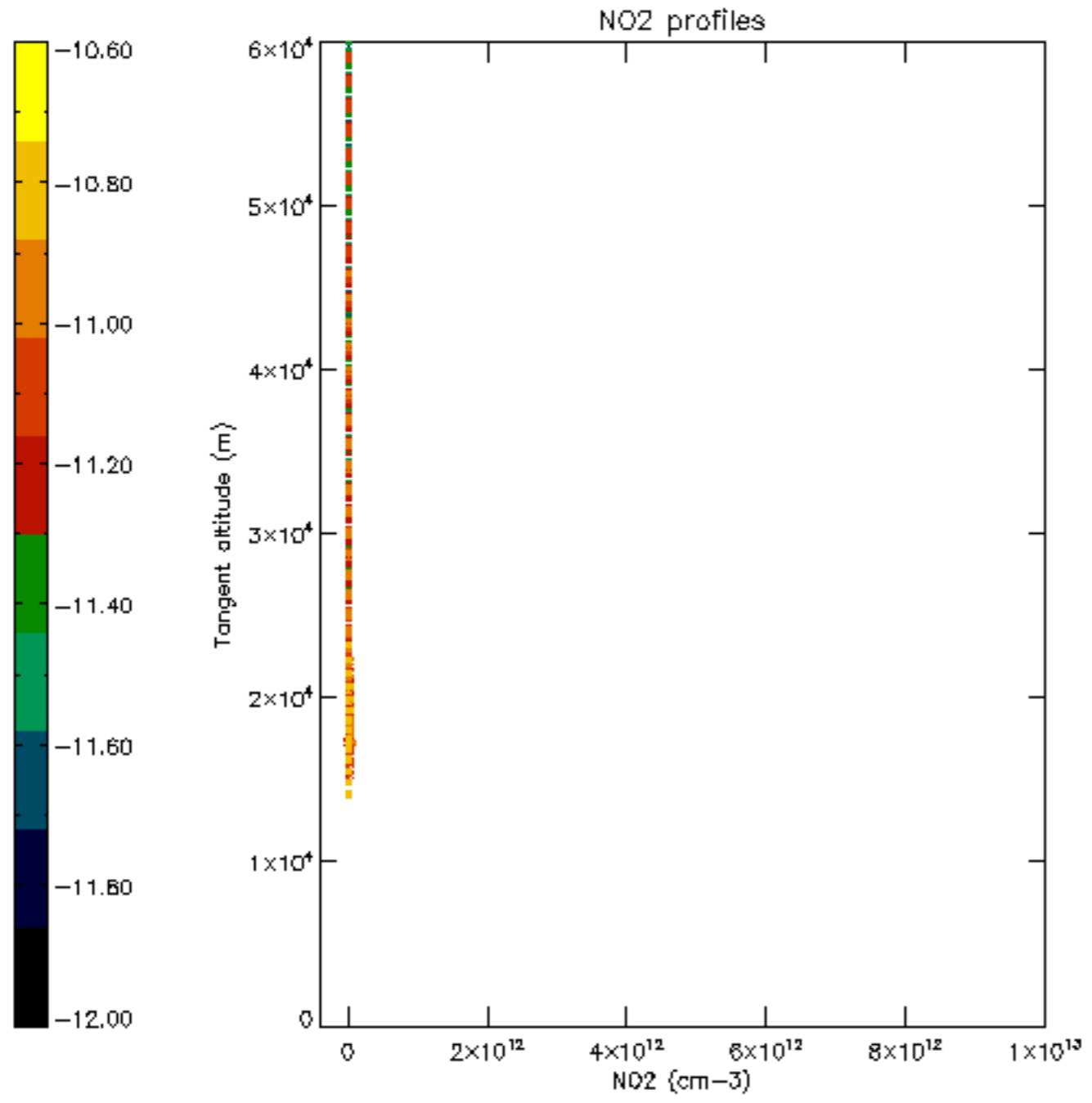


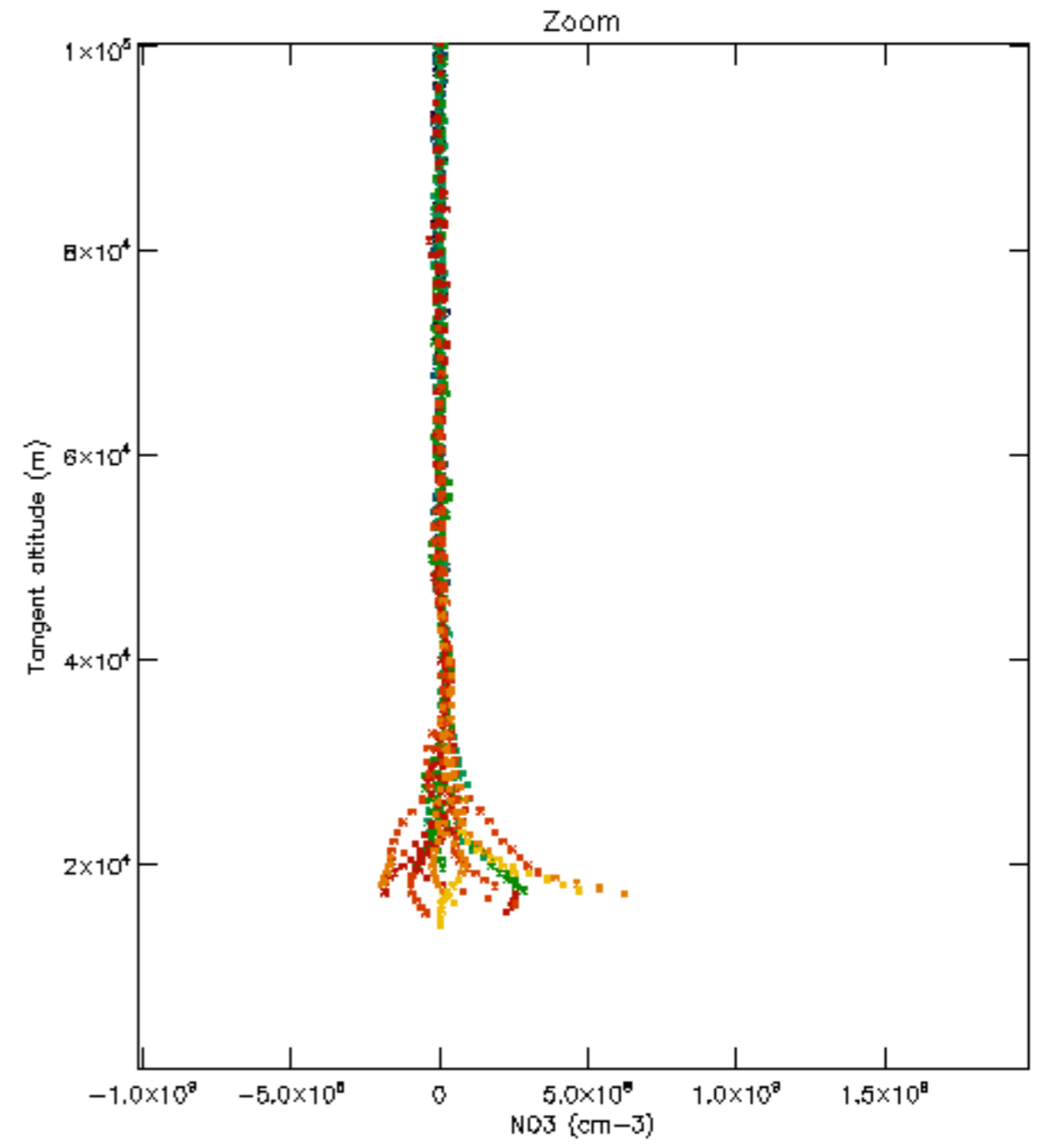
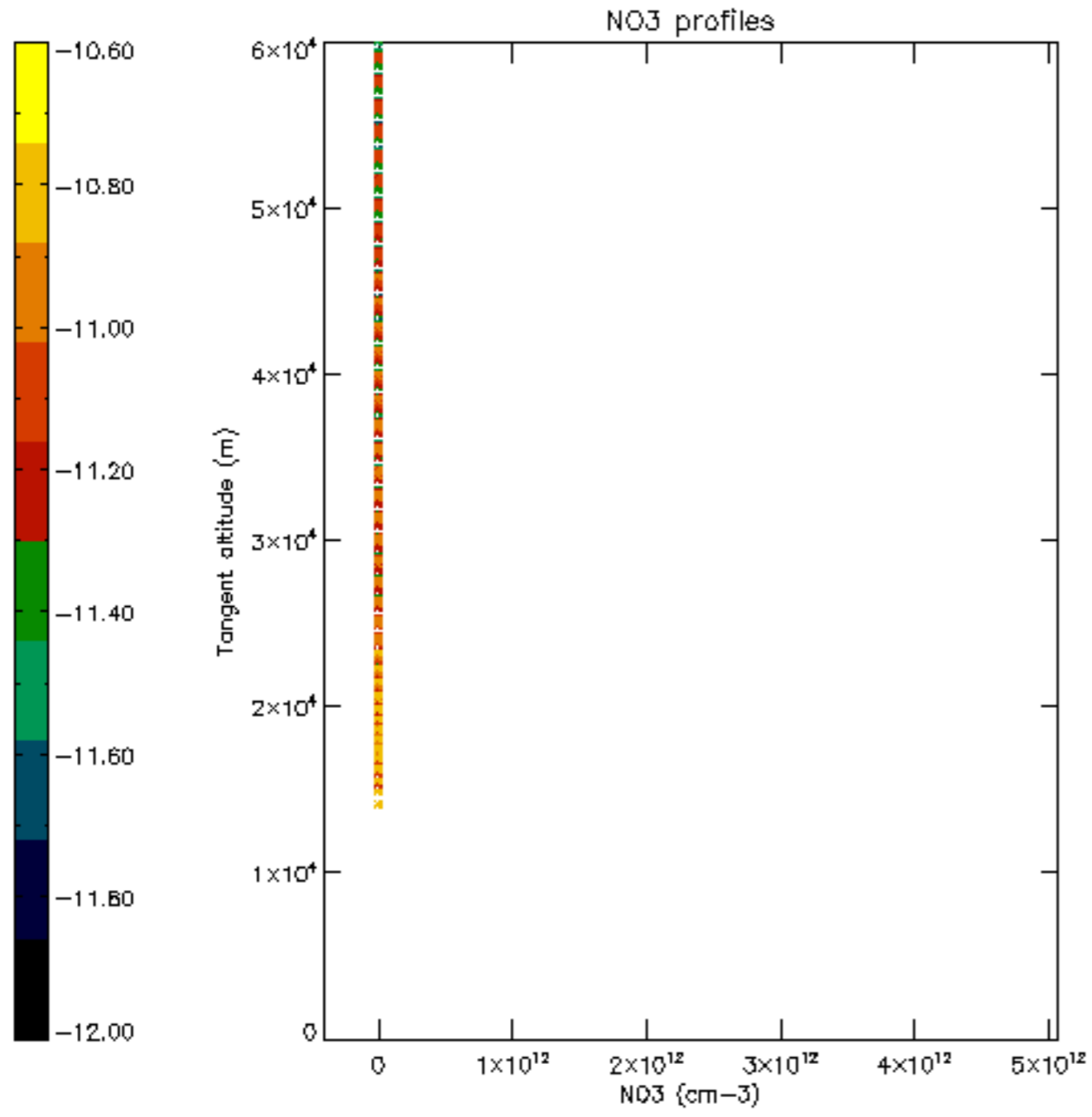


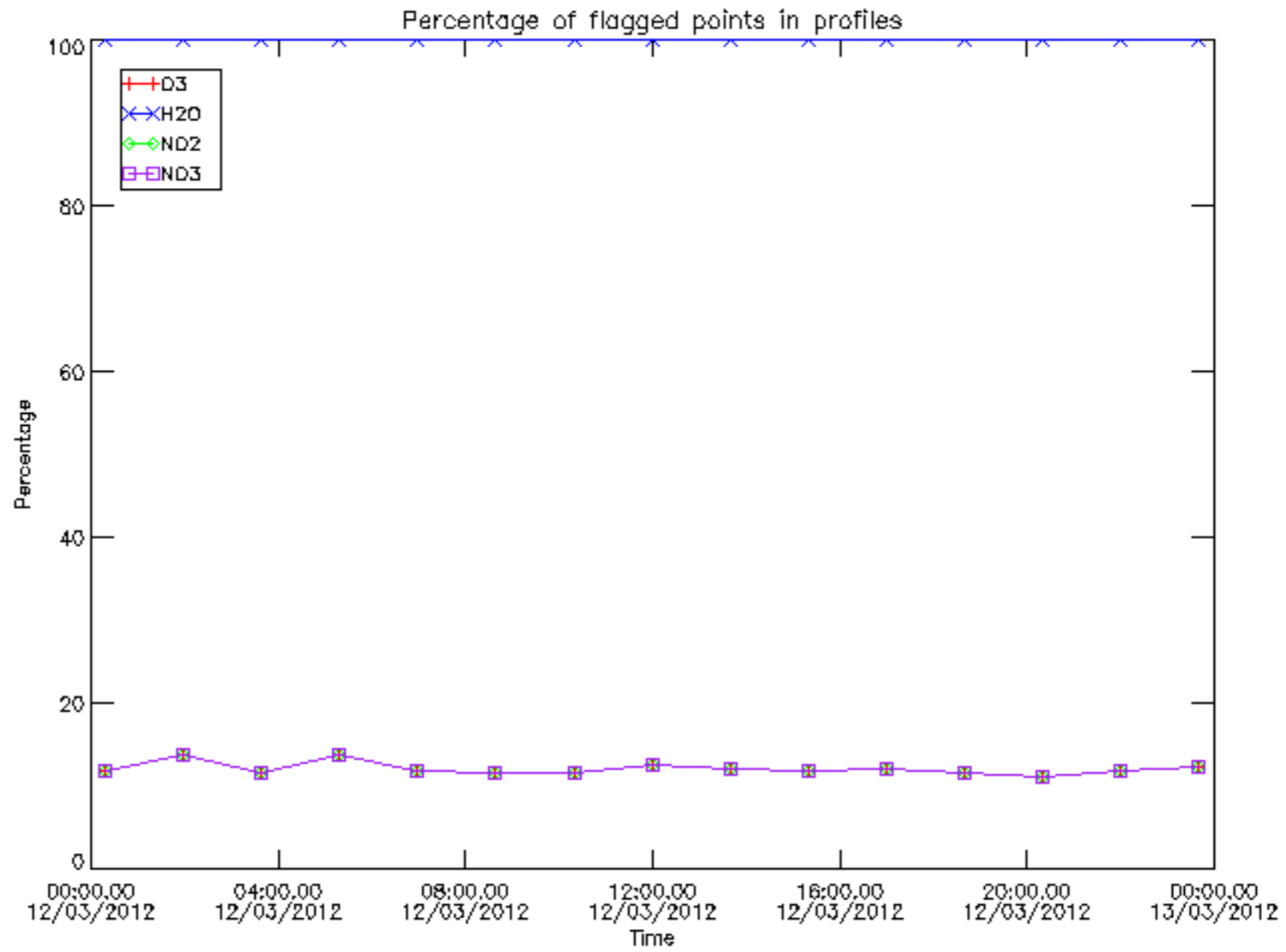




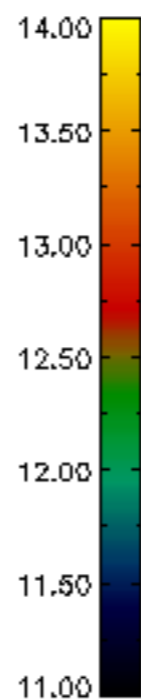
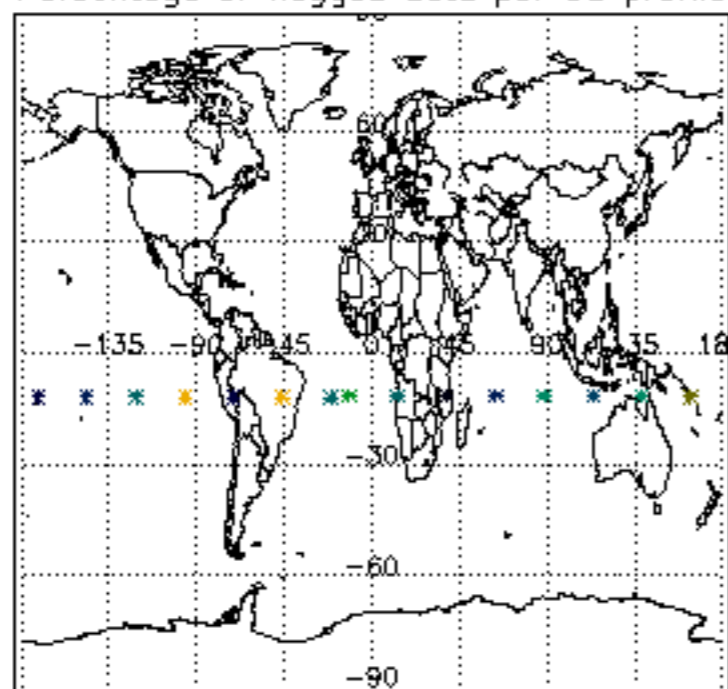




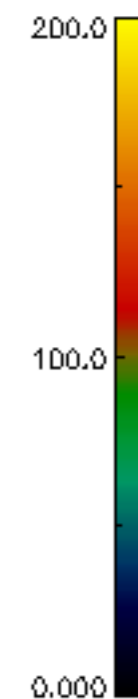
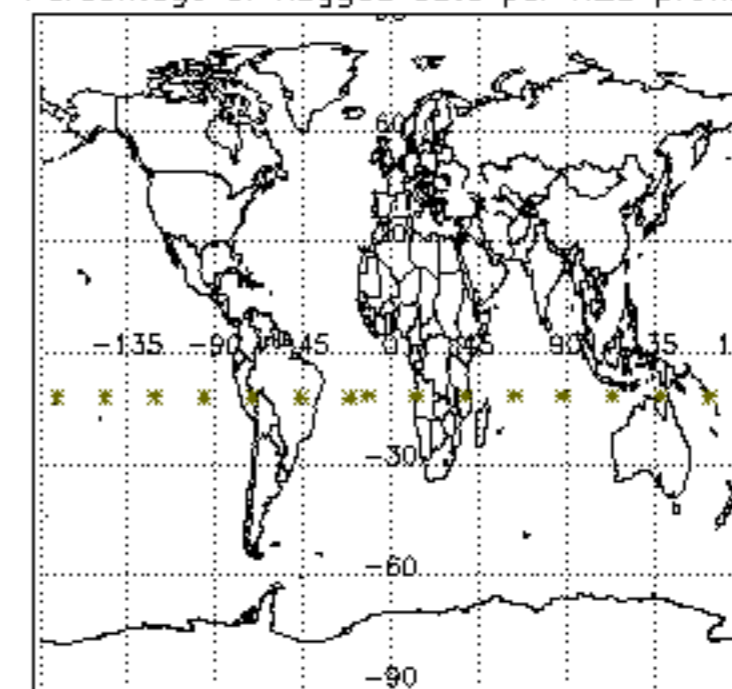




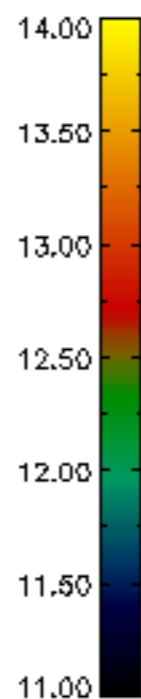
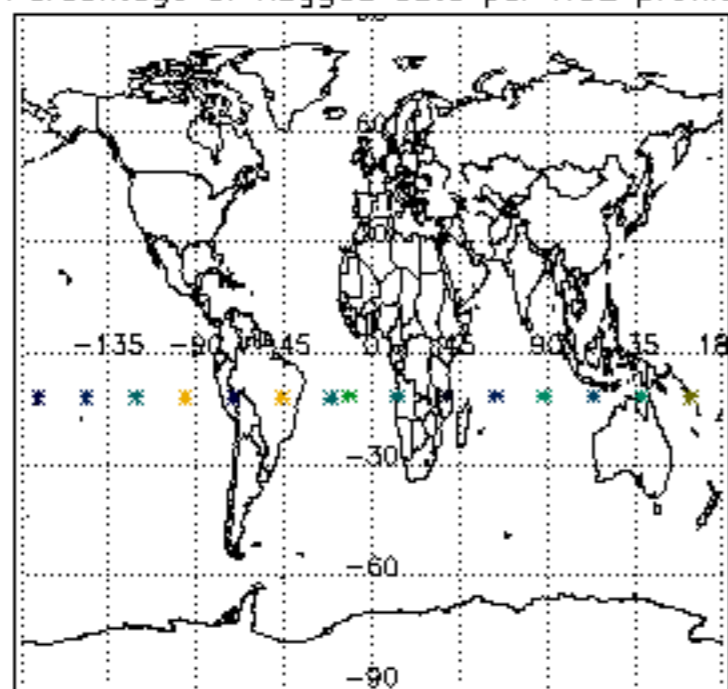
Percentage of flagged data per D3 profile



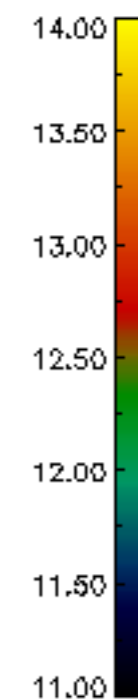
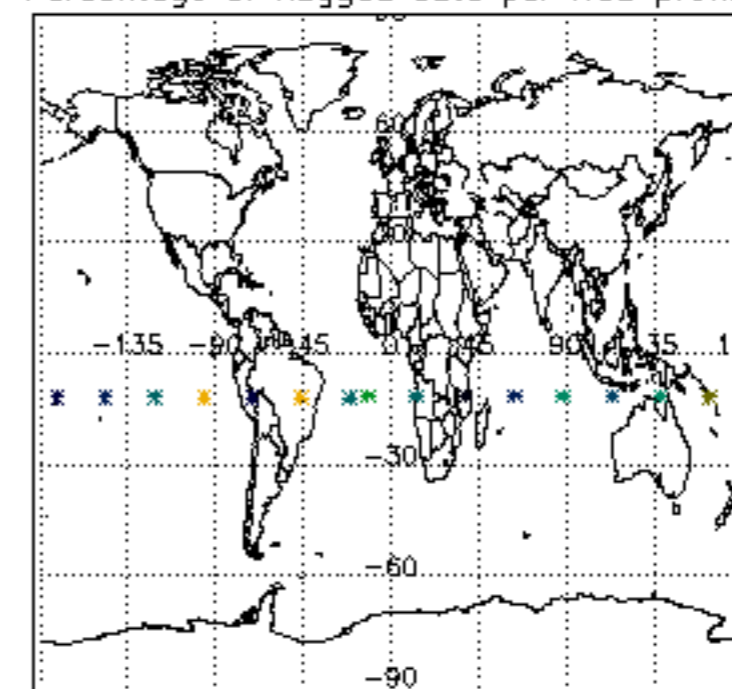
Percentage of flagged data per H2O profile

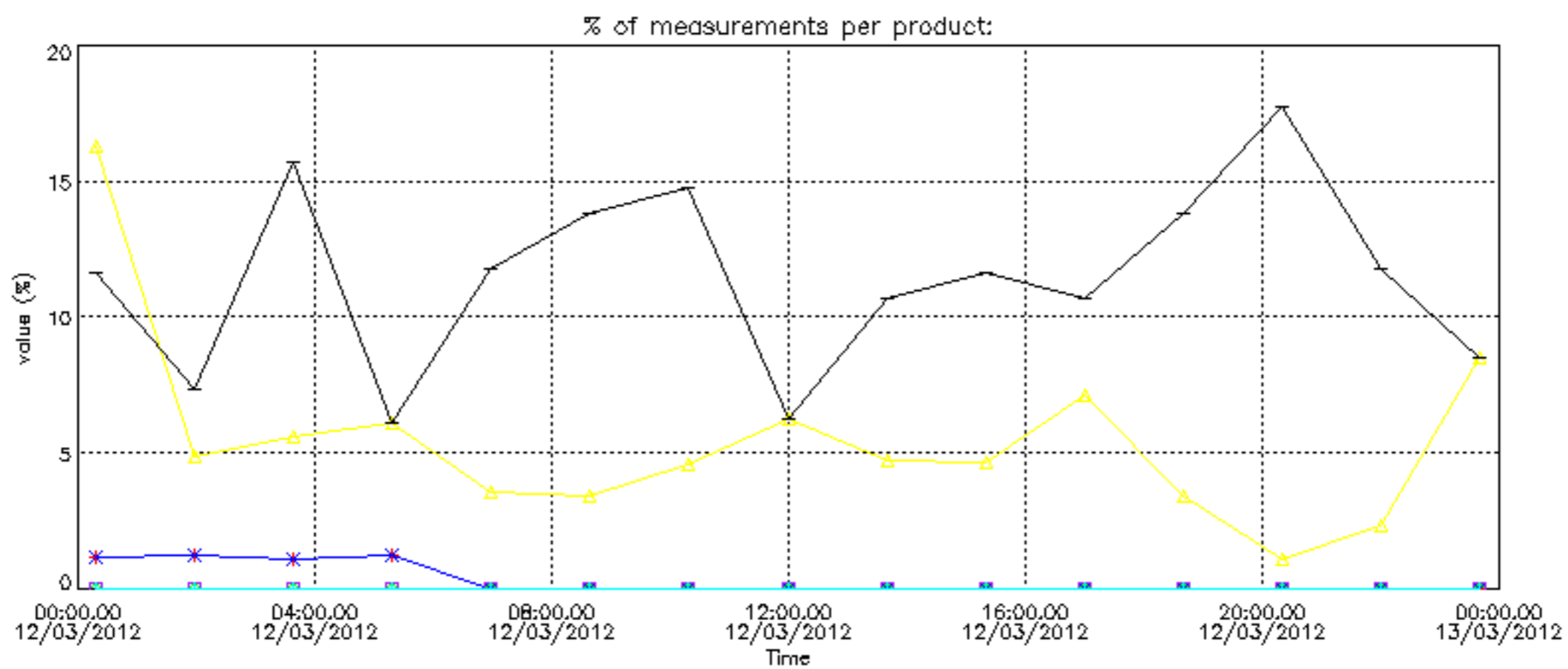


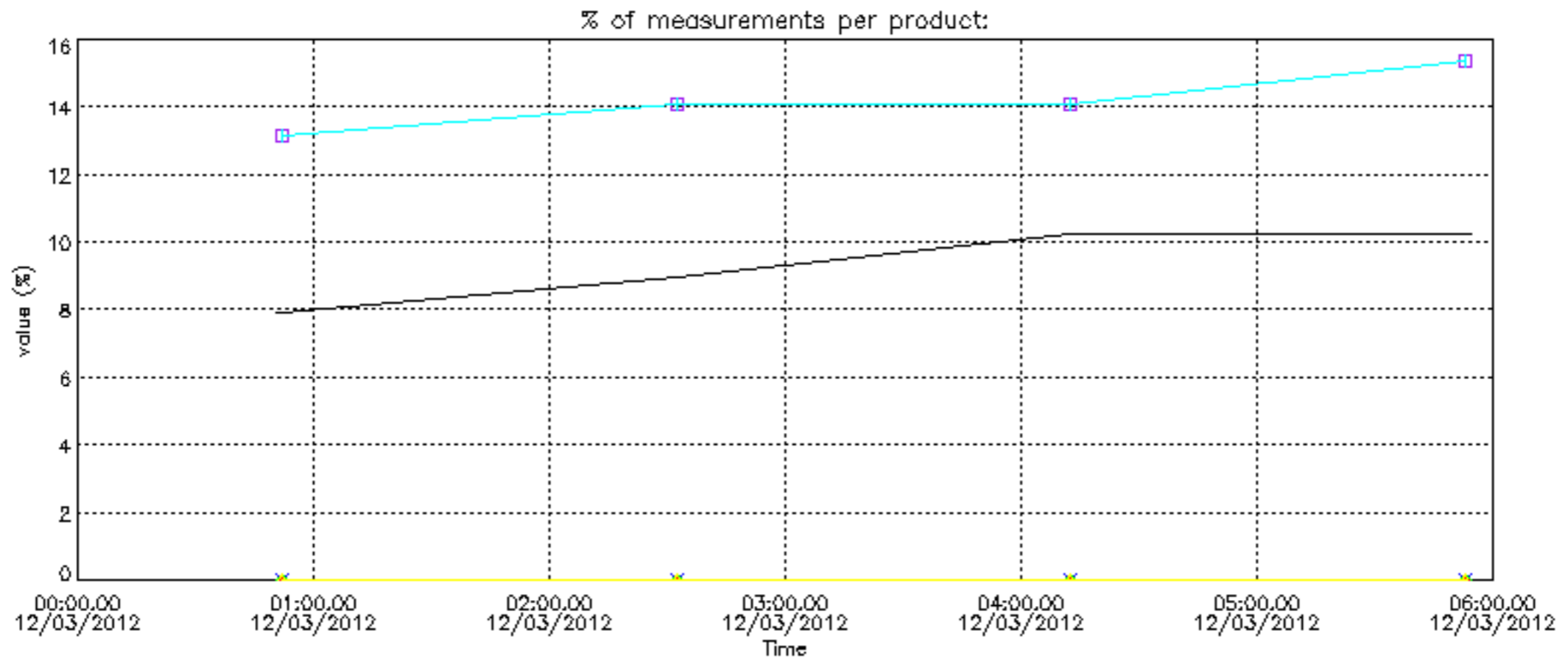
Percentage of flagged data per NO2 profile



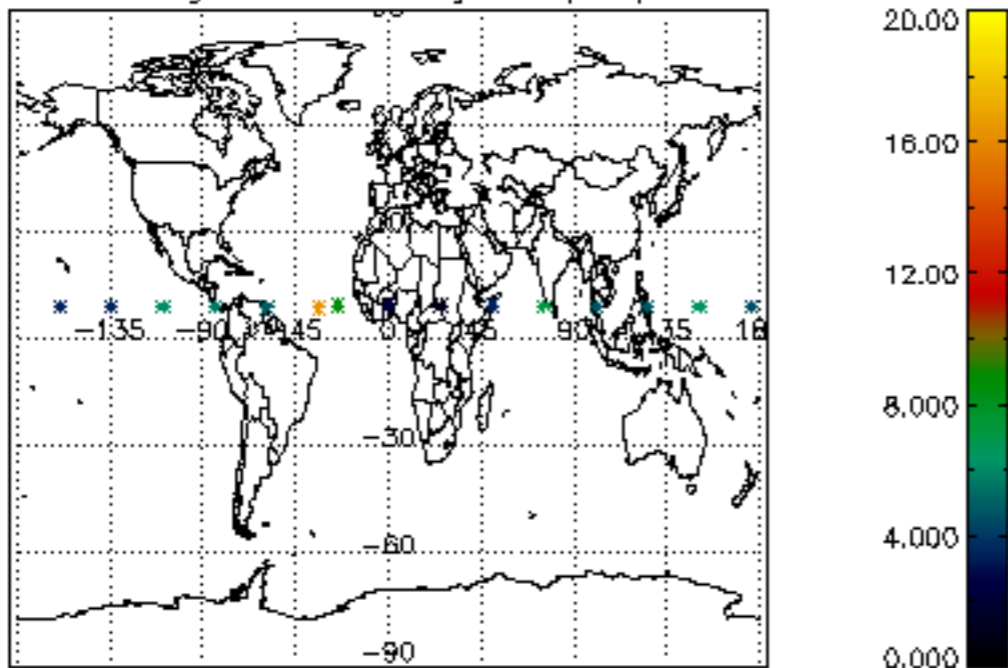
Percentage of flagged data per NO3 profile



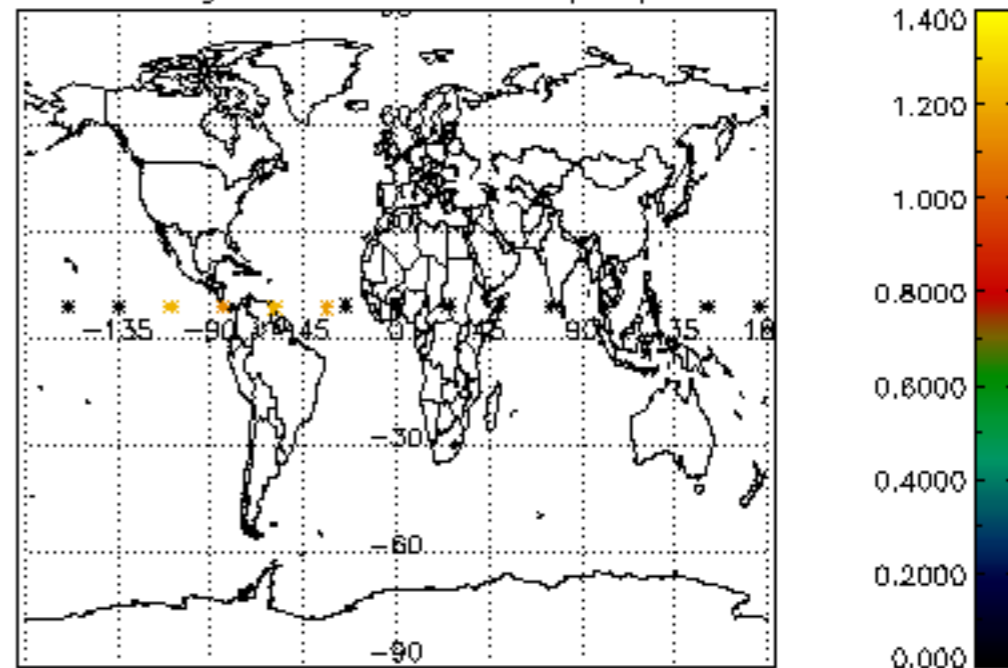




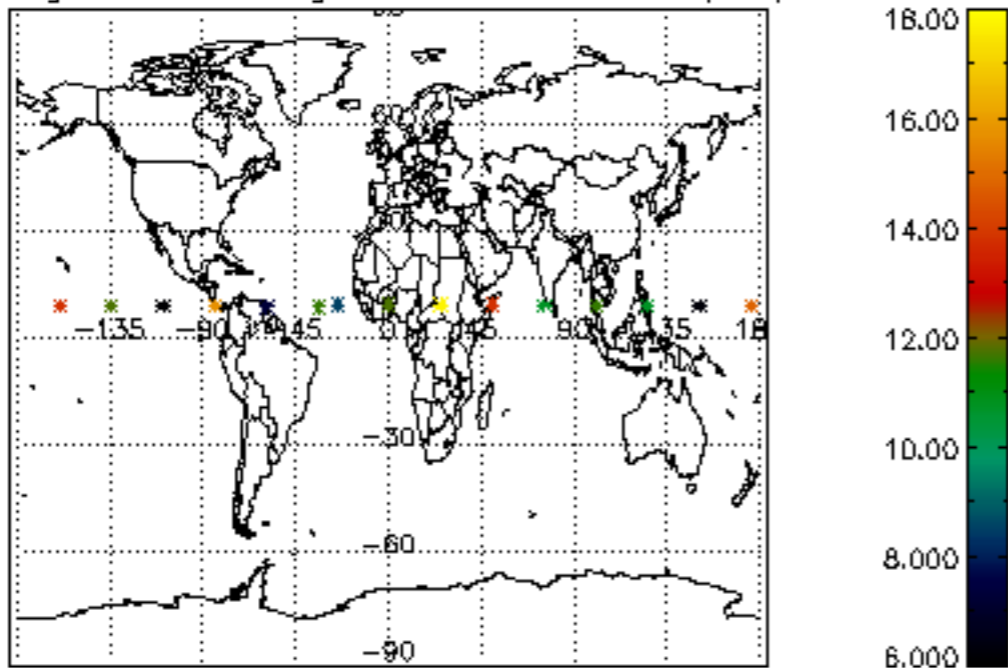
Percentage of cosmic ray hits per profile



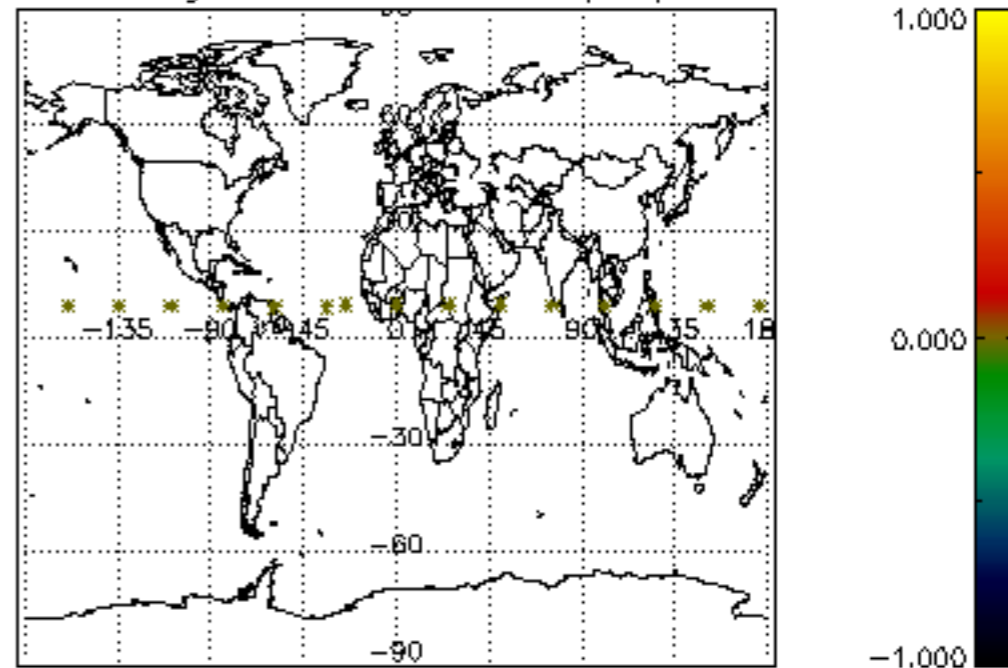
Percentage of datation errors per profile



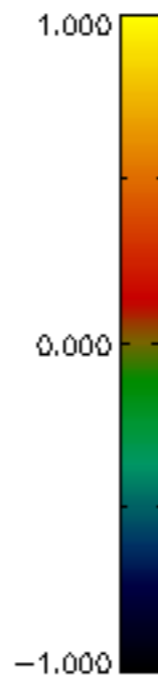
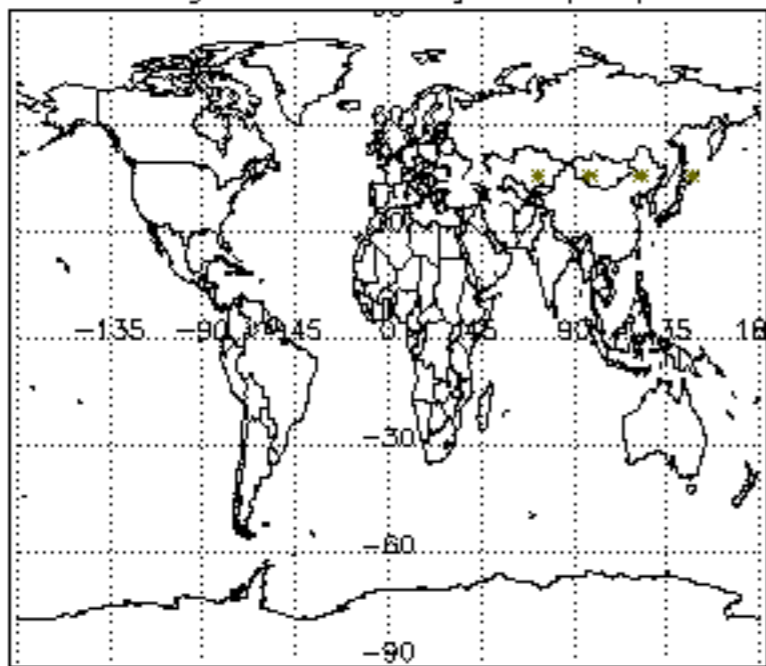
Percentage of star falling outside central band per profile



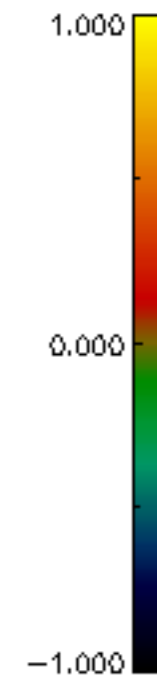
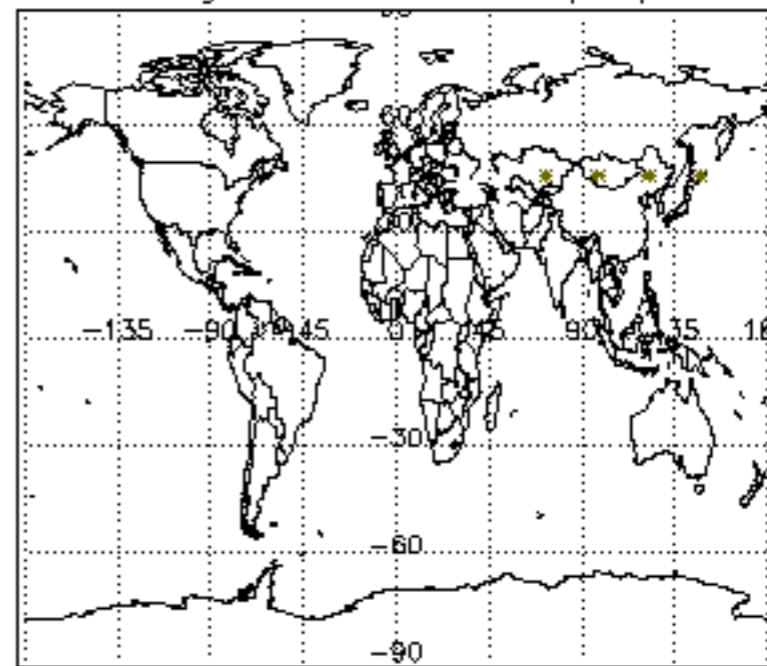
Percentage of saturation errors per profile



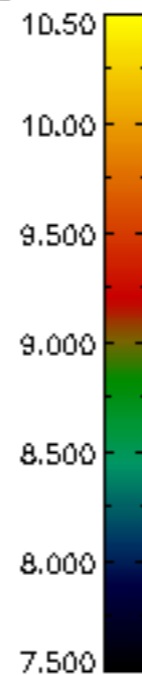
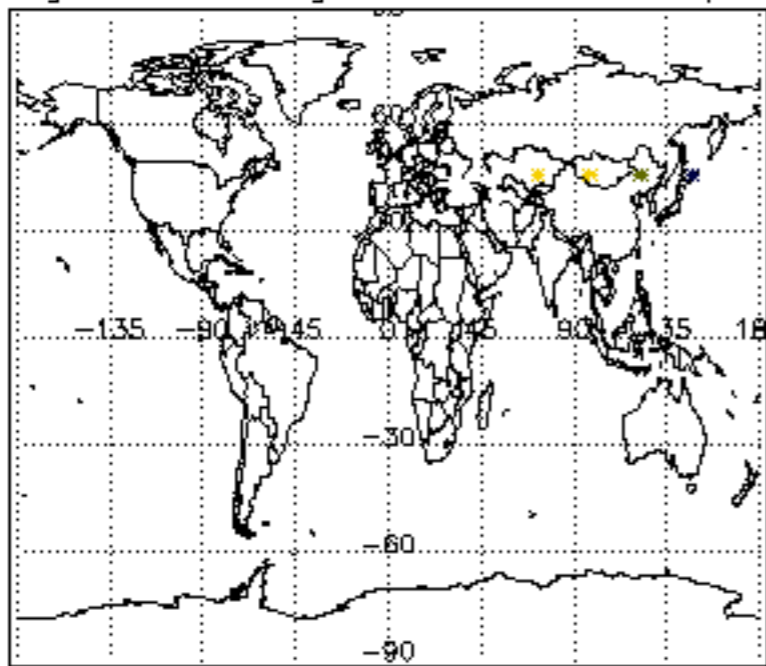
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

