

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	24APR2013 18:12:11
Data source version	GOMOS/6.01
Start time of products	15-12-2011 (15DEC2011 00:00:00)
Stop time of products	16-12-2011 (16DEC2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	26
Nb of prods with errors	0

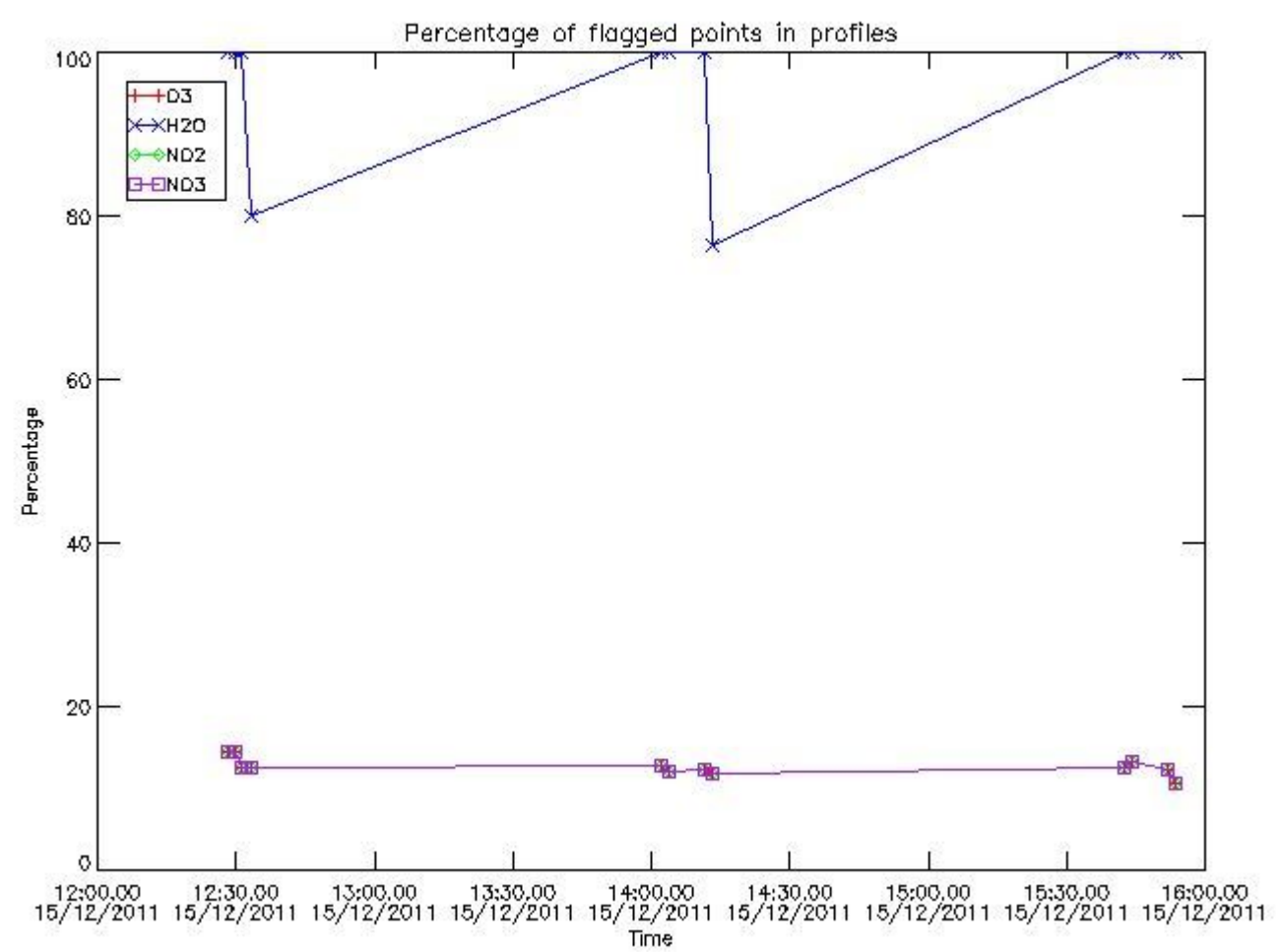
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20111215_122811_000000393109_00340_51216_0071.N1	15-DEC-2011 12:28:11	Dark	38.500	124	The Car	2.7640	30000.	77	51216	No
2	GOM_NL__2PRFIN20111215_122955_000000393109_00340_51216_0072.N1	15-DEC-2011 12:29:55	Dark	39.000	159	Ups Car	2.9200	7200.0	78	51216	No
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5	GOM_NL__2PRFIN20111215_124400_000000423109_00340_51216_0075.N1	15-DEC-2011 12:44:00	Straylight	41.500	108	Alp Col	2.6520	15200.	83	51216	No
6	GOM_NL__2PRFIN20111215_124805_000000443109_00340_51216_0076.N1	15-DEC-2011 12:48:05	Straylight	44.000	139	9Bet Lep	2.8330	5600.0	88	51216	No
7	GOM_NL__2PRFIN20111215_125257_000000443109_00340_51216_0077.N1	15-DEC-2011 12:52:57	Straylight	44.000	128	67Bet Eri	2.7840	9700.0	88	51216	No
8	GOM_NL__2PRFIN20111215_132427_000000383109_00340_51216_0078.N1	15-DEC-2011 13:24:27	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	51216	No
9	GOM_NL__2PRFIN20111215_133459_000000393109_00340_51216_0079.N1	15-DEC-2011 13:34:59	Bright	38.500	180	27Gam Boo	3.0400	8000.0	77	51216	No
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12	GOM_NL__2PRFIN20111215_140355_000000423109_00341_51217_0311.N1	15-DEC-2011 14:03:55	Dark	42.000	99	Del Cen	2.5750	26000.	84	51217	No
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19	GOM_NL__2PRFIN20111215_154232_000000413109_00341_51217_0318.N1	15-DEC-2011 15:42:32	Dark	40.500	64	Gam Cen	2.2000	10600.	81	51217	No
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21	GOM_NL__2PRFIN20111215_155146_000000423109_00342_51218_0320.N1	15-DEC-2011 15:51:46	Dark	41.500	71	Iot Car	2.2460	7700.0	83	51218	No
22	GOM_NL__2PRFIN20111215_155339_000000493109_00342_51218_0321.N1	15-DEC-2011 15:53:39	Dark	48.500	41	Eps Car	1.8600	4100.0	97	51218	No
23	GOM_NL__2PRFIN20111215_160834_000000433109_00342_51218_0322.N1	15-DEC-2011 16:08:34	Straylight	43.000	139	9Bet Lep	2.8330	5600.0	86	51218	No
24	GOM_NL__2PRFIN20111215_161325_000000433109_00342_51218_0323.N1	15-DEC-2011 16:13:25	Straylight	43.000	128	67Bet Eri	2.7840	9700.0	86	51218	No
25	GOM_NL__2PRFIN20111215_164454_000000393109_00342_51218_0324.N1	15-DEC-2011 16:44:54	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	51218	No
26	GOM_NL__2PRFIN20111215_165527_000000543109_00342_51218_0325.N1	15-DEC-2011 16:55:27	Bright	54.000	180	27Gam Boo	3.0400	8000.0	108	51218	No

3. Quality information per product

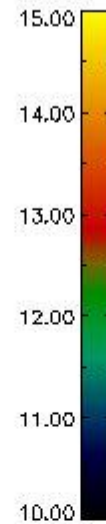
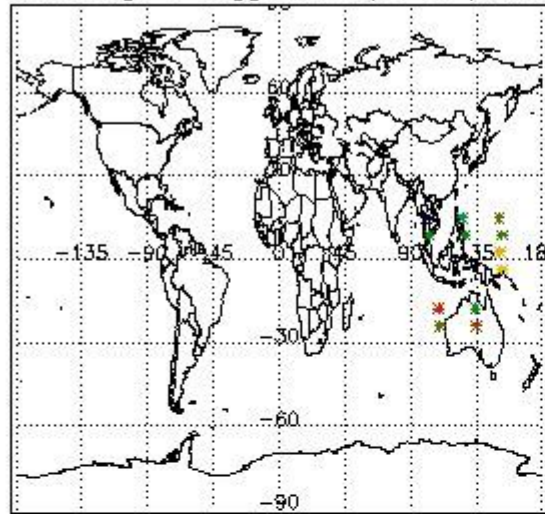
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

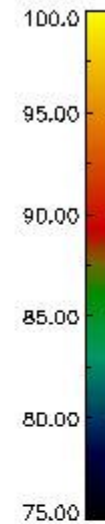
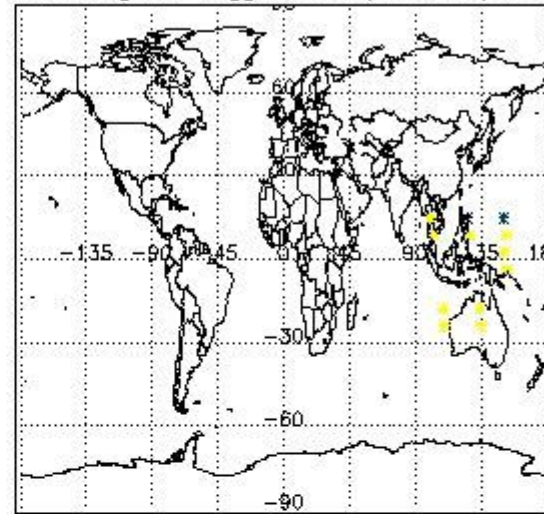


3.2 Plot quality information per product (world map)

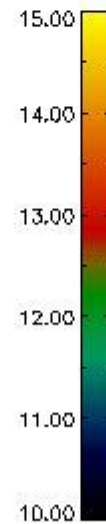
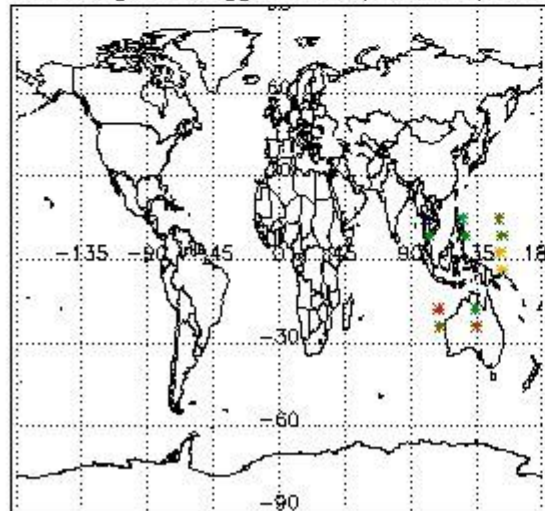
Percentage of flagged data per O3 profile



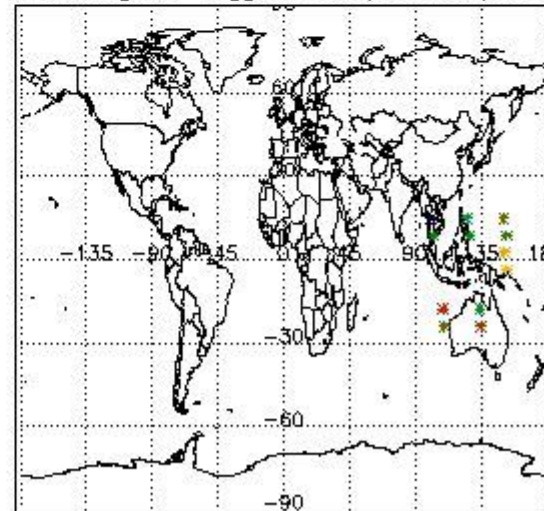
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

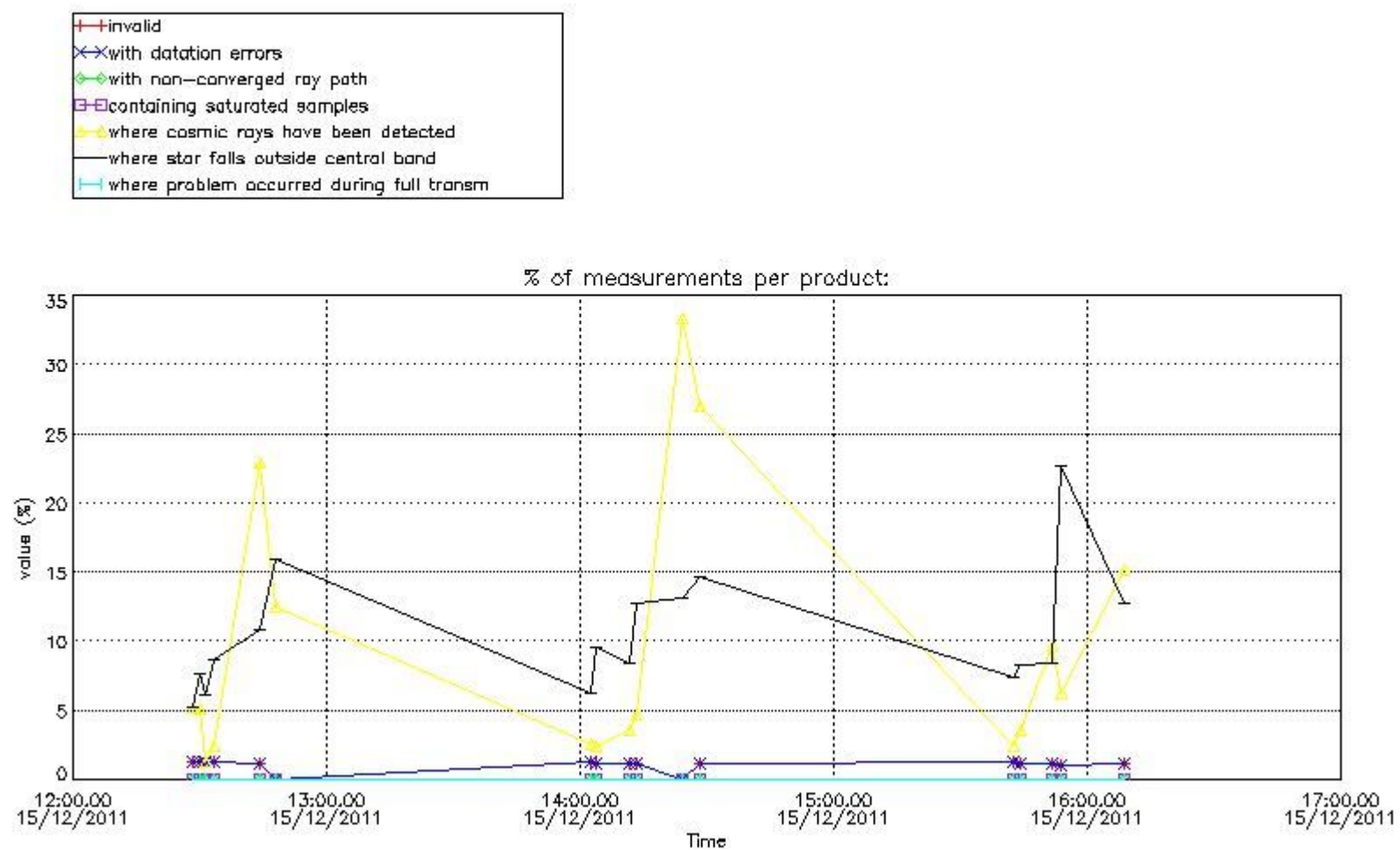


4. Level 1 quality information per product

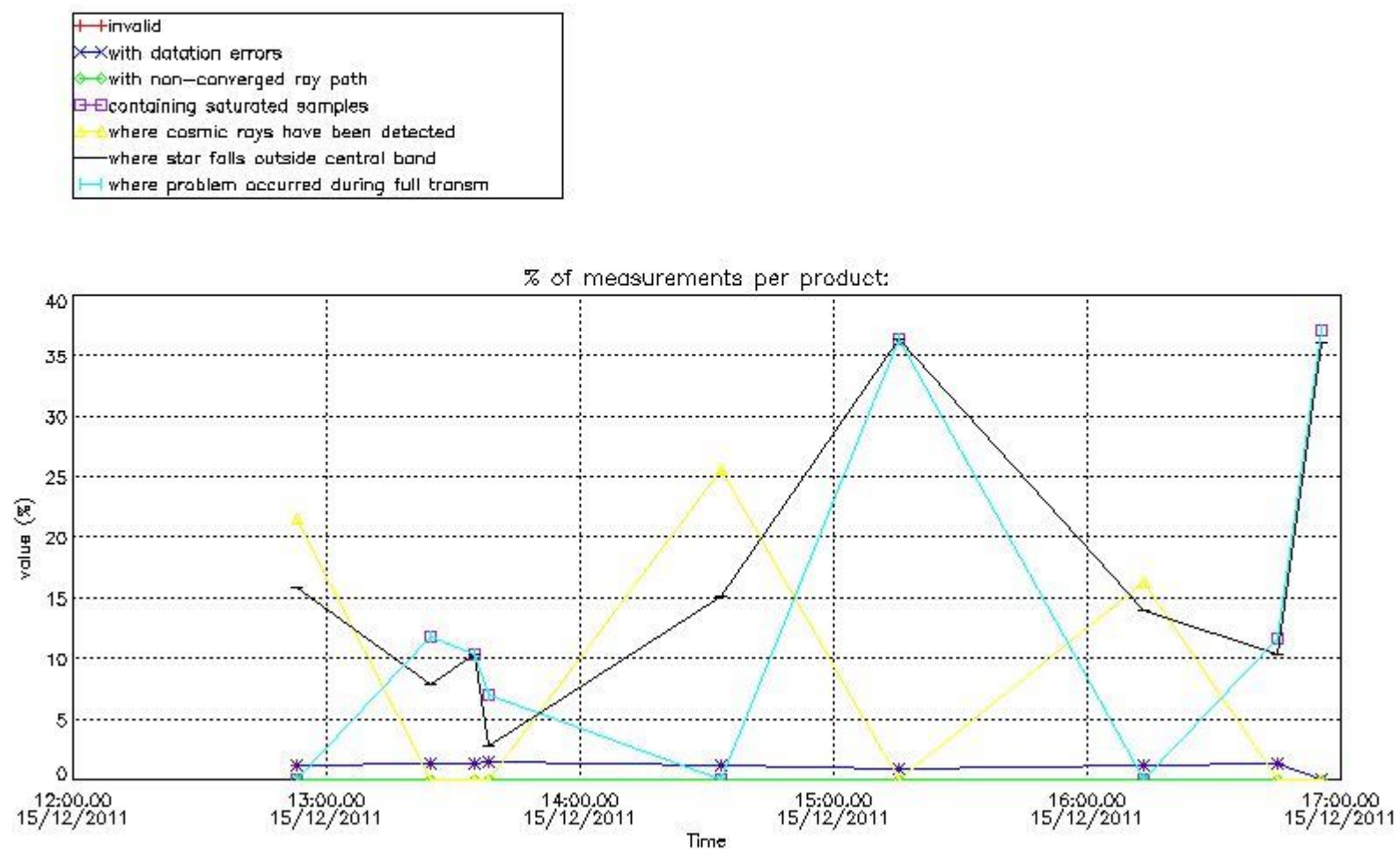
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



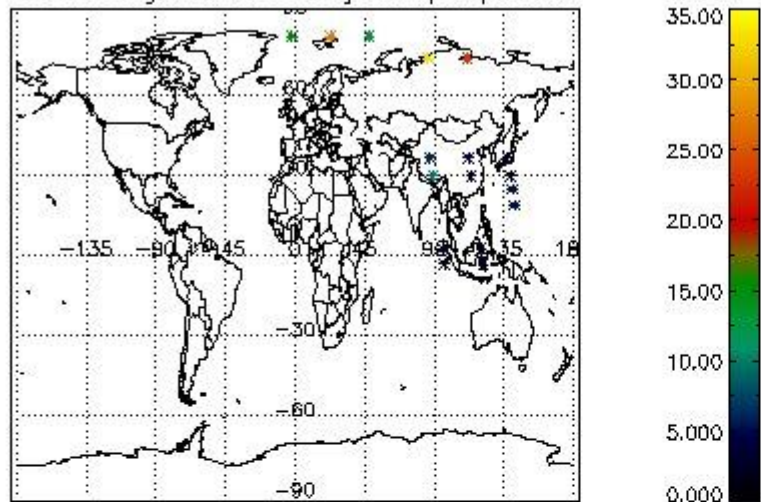
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



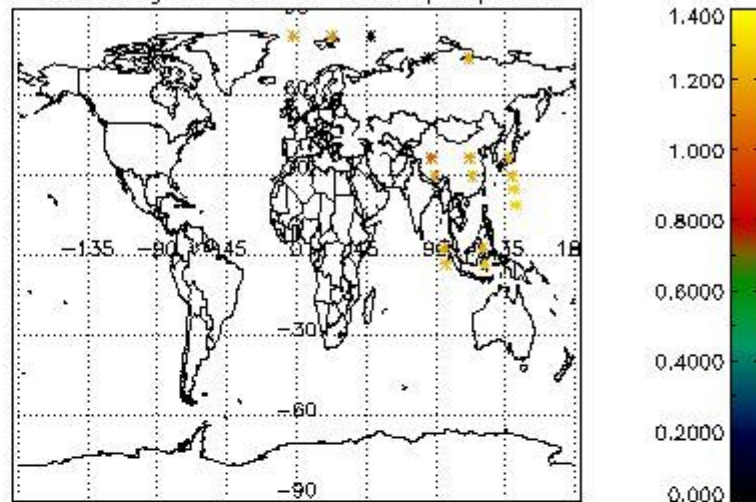
4.2 Plot quality information per product coming from level 1b processing (world map)

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

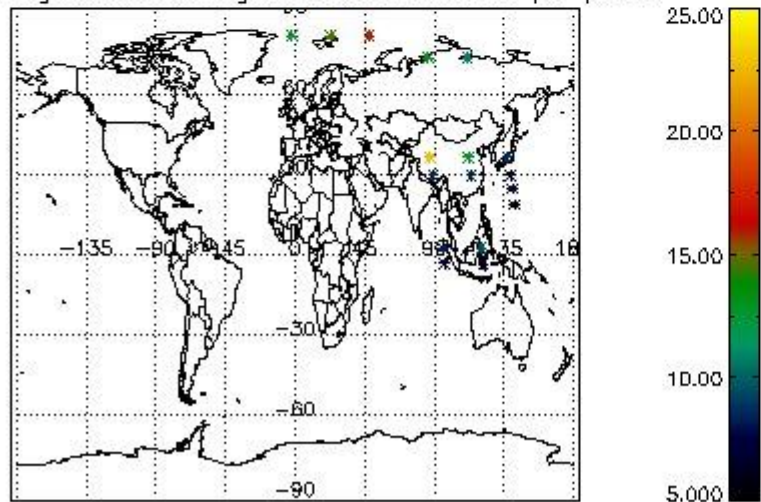
Percentage of cosmic ray hits per profile



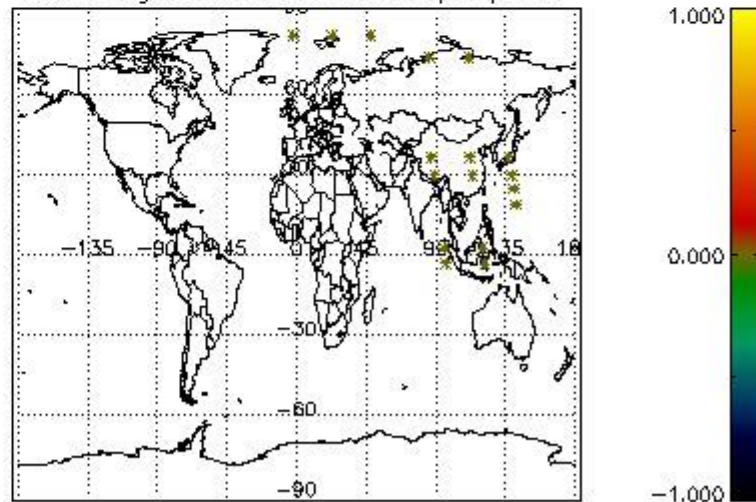
Percentage of datation errors per profile



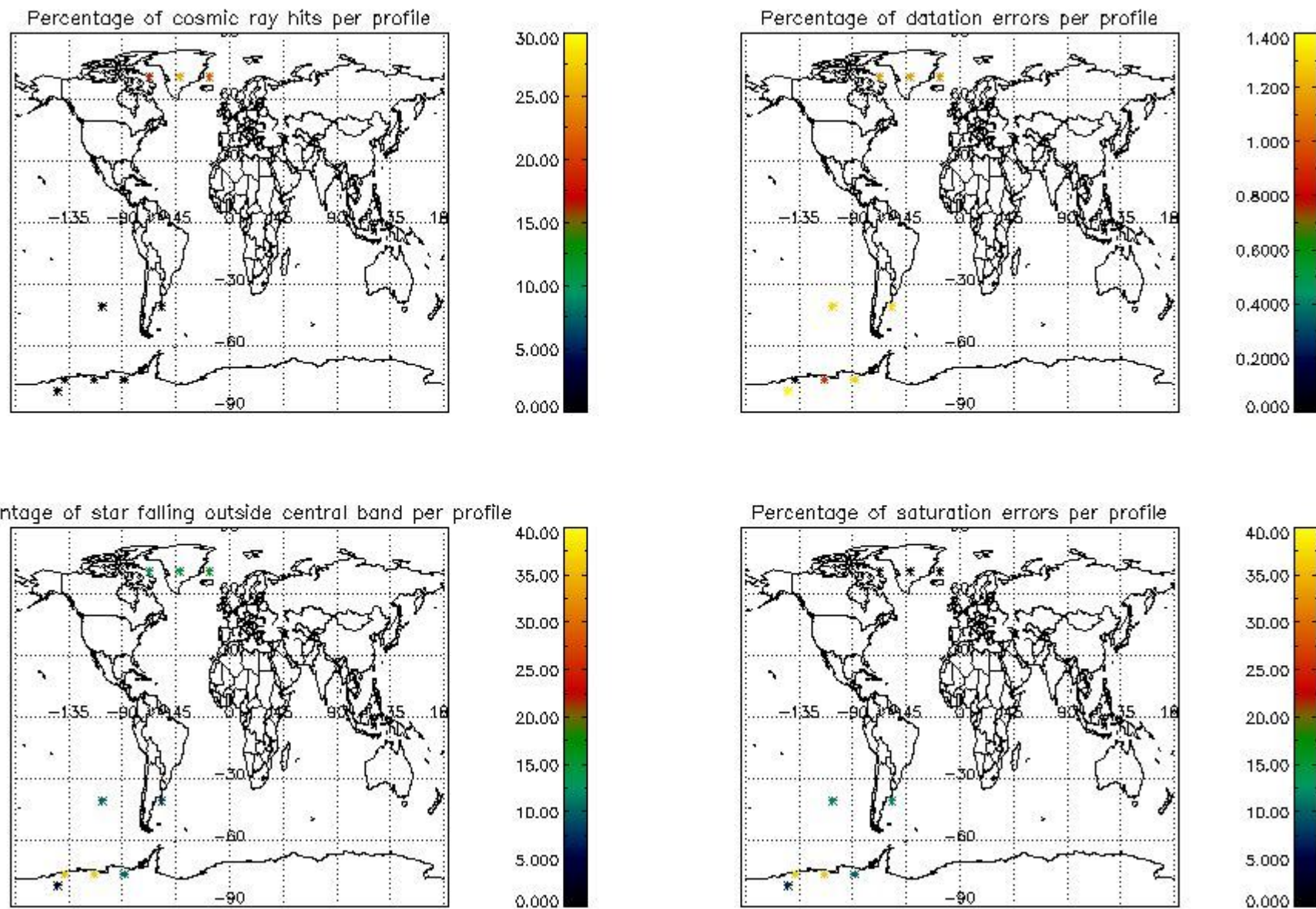
Percentage of star falling outside central band per profile



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

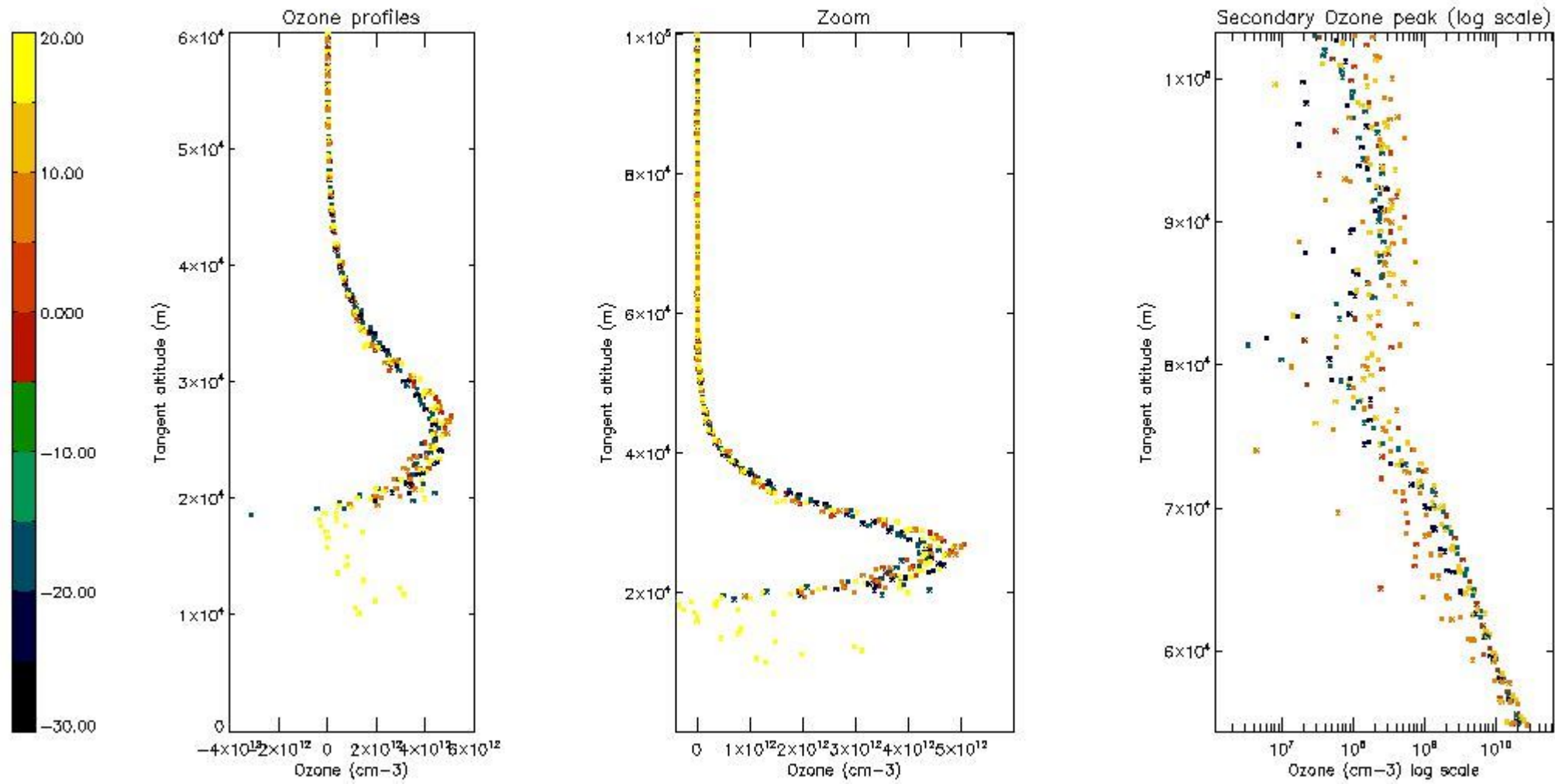
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	46
STD < 20	22

STD < 10	15
STD < 5	5

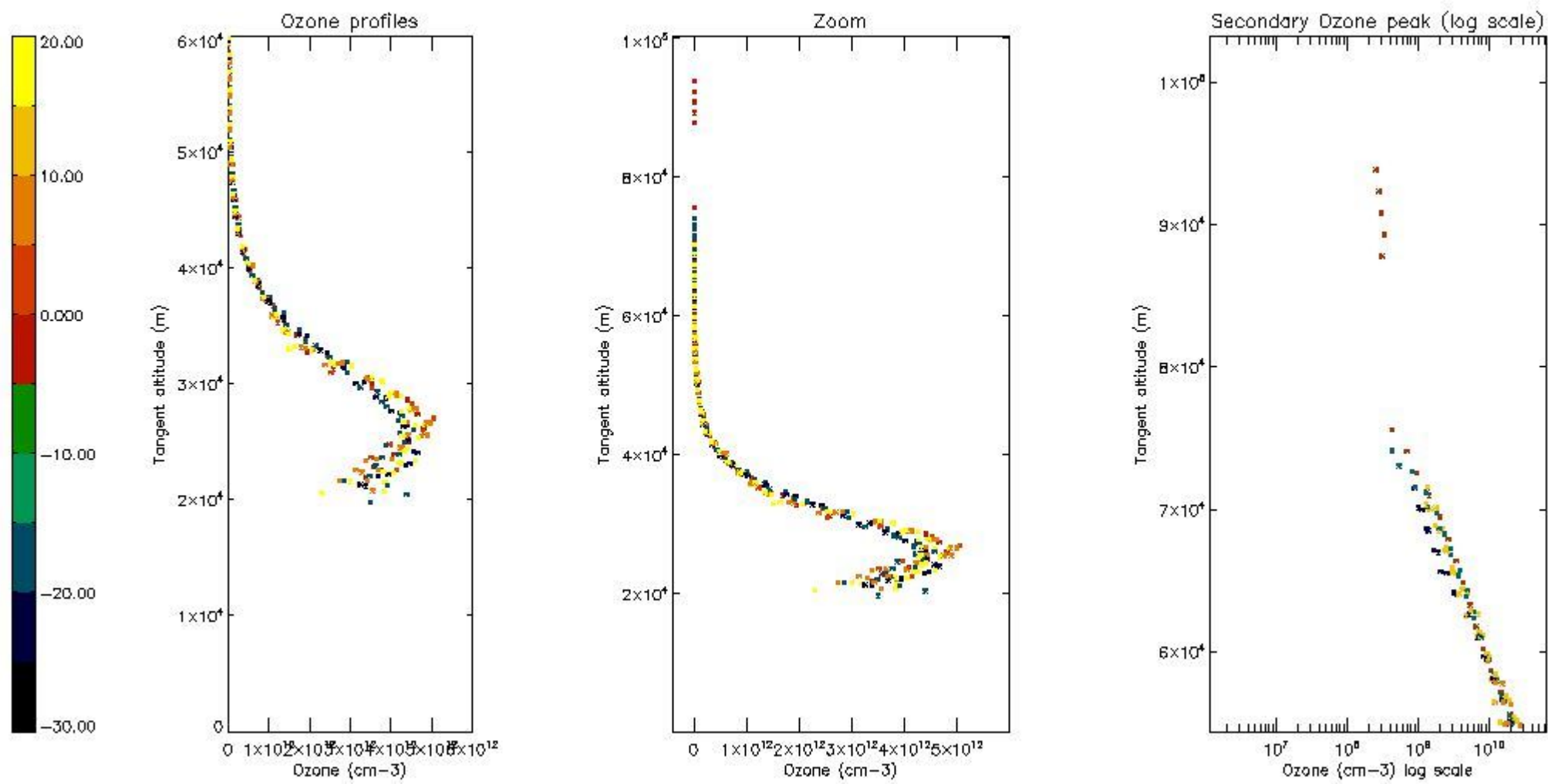
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



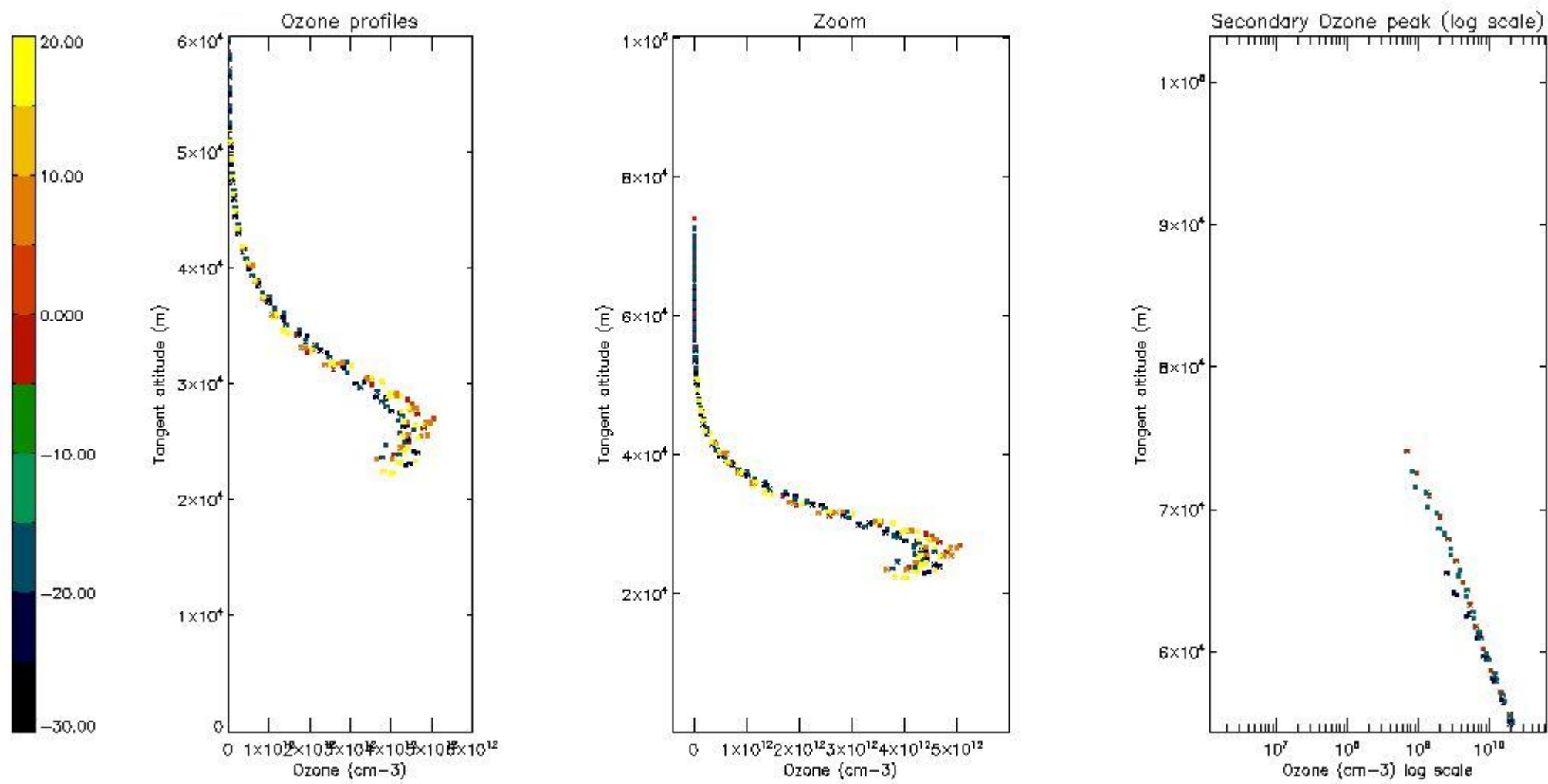
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



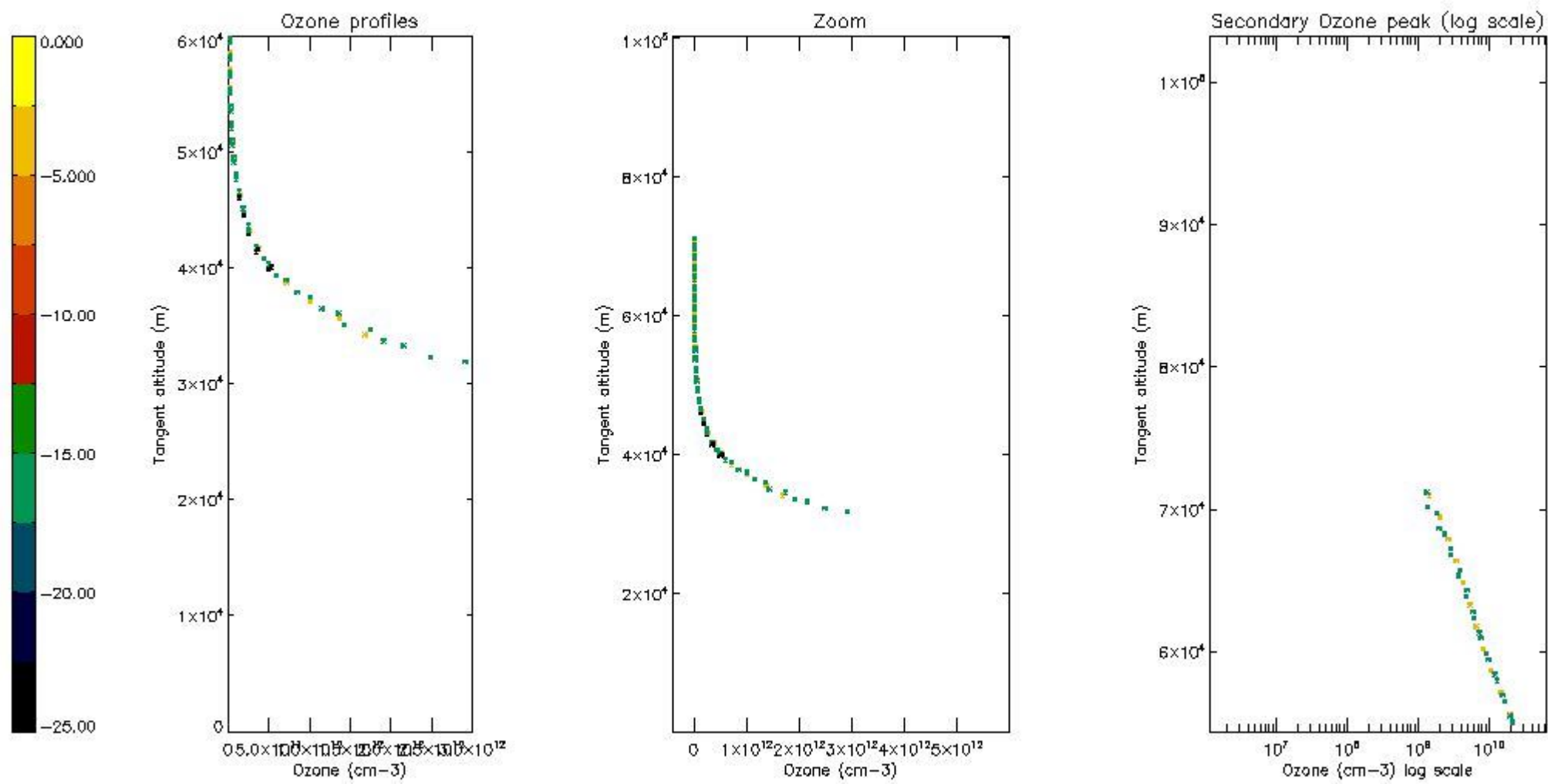
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



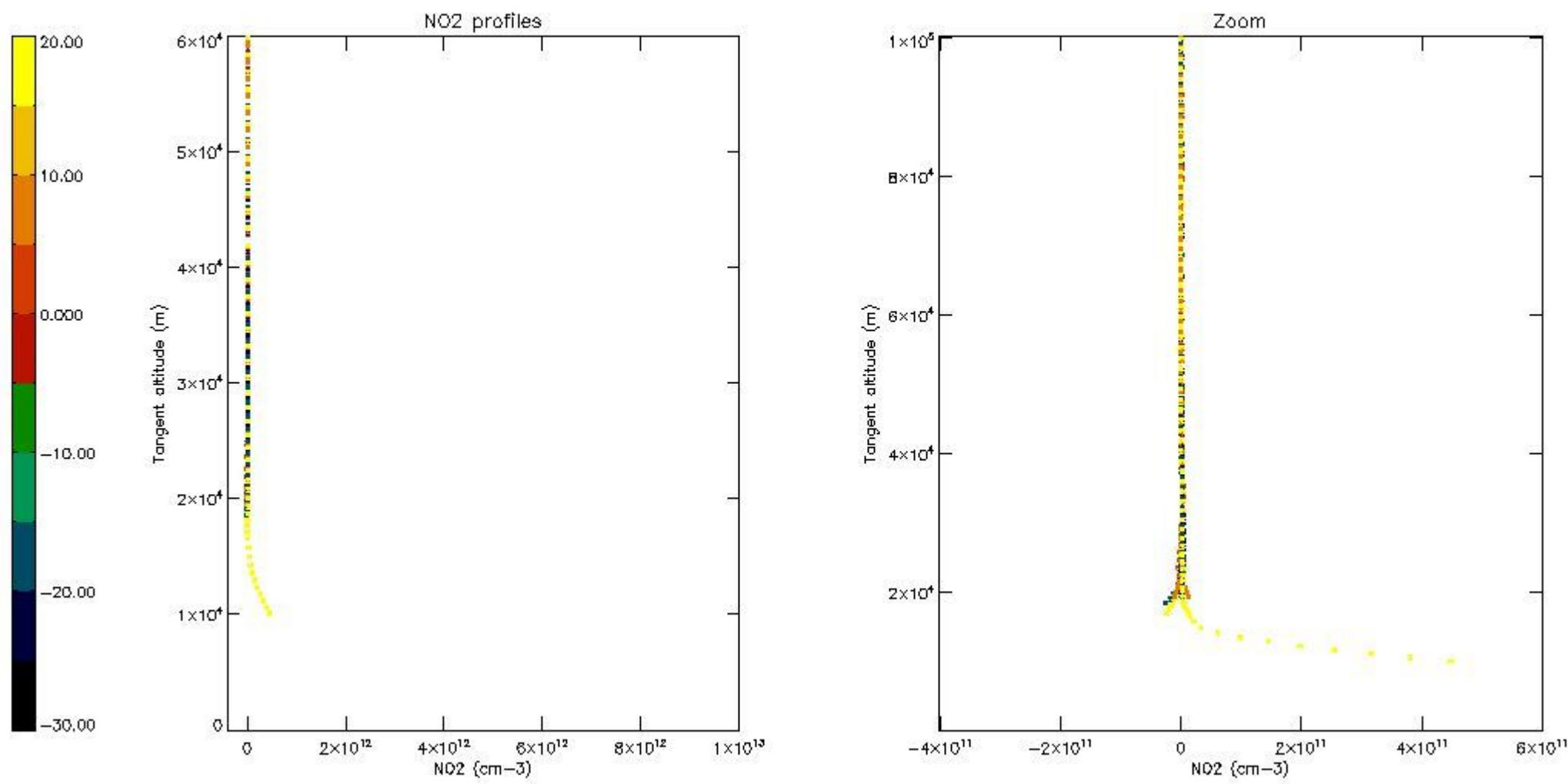
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



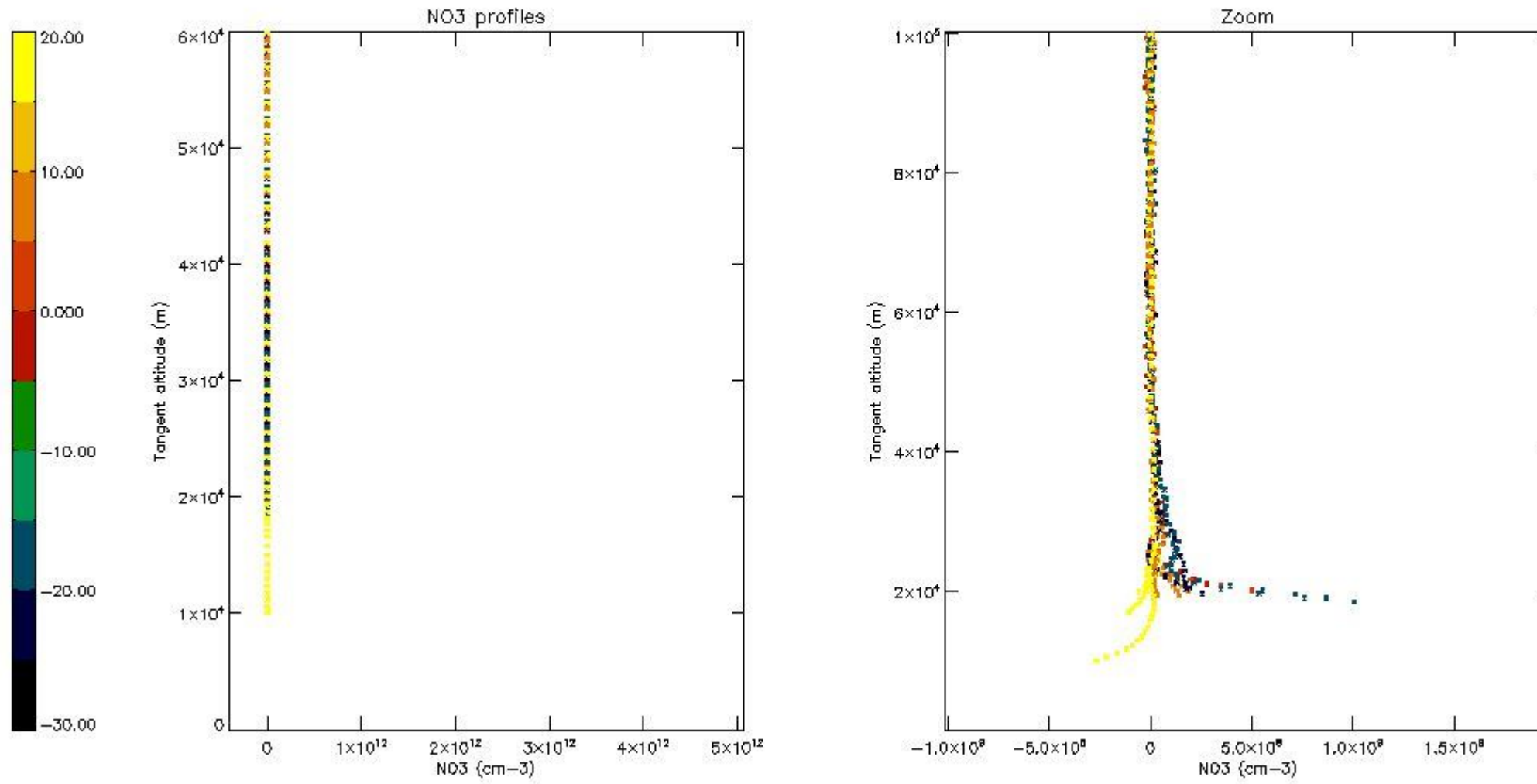
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	15-DEC-2011 12:28:11
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-DEC-2011 12:28:11
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-DEC-2011 12:28:11

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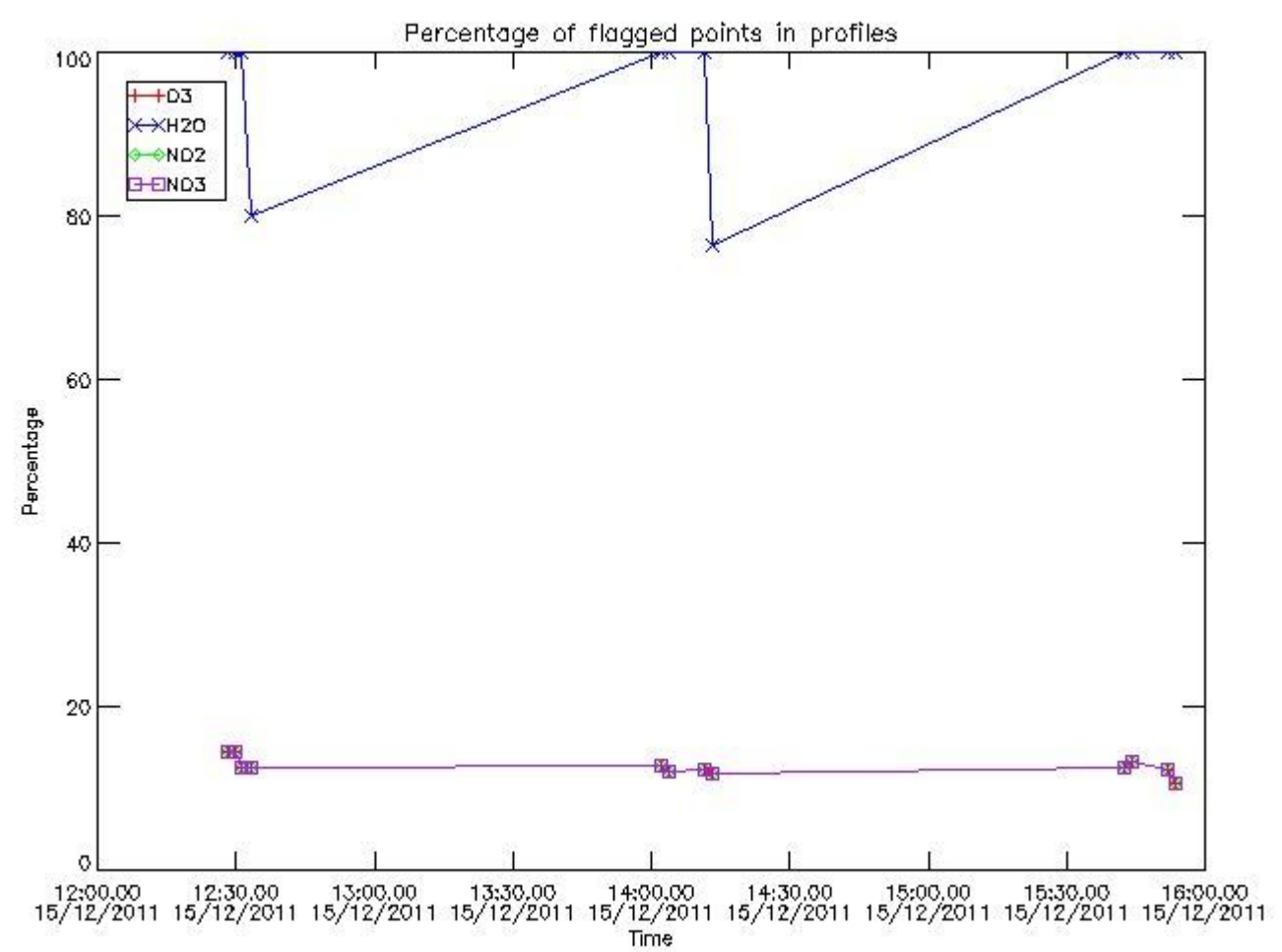
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22	GOM_NL__2PRFIN20111215_155339_000000493109_00342_51218_0321.N1	15-DEC-2011 15:53:39	Dark	48.500	41	Eps Car	1.8600	4100.0	97	51218	No
23	GOM_NL__2PRFIN20111215_160834_000000433109_00342_51218_0322.N1	15-DEC-2011 16:08:34	Straylight	43.000	139	9Bet Lep	2.8330	5600.0	86	51218	No
24	GOM_NL__2PRFIN20111215_161325_000000433109_00342_51218_0323.N1	15-DEC-2011 16:13:25	Straylight	43.000	128	67Bet Eri	2.7840	9700.0	86	51218	No
25	GOM_NL__2PRFIN20111215_164454_000000393109_00342_51218_0324.N1	15-DEC-2011 16:44:54	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	51218	No
26	GOM_NL__2PRFIN20111215_165527_000000543109_00342_51218_0325.N1	15-DEC-2011 16:55:27	Bright	54.000	180	27Gam Boo	3.0400	8000.0	108	51218	No

3. Quality information per product

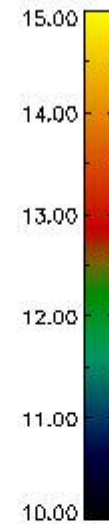
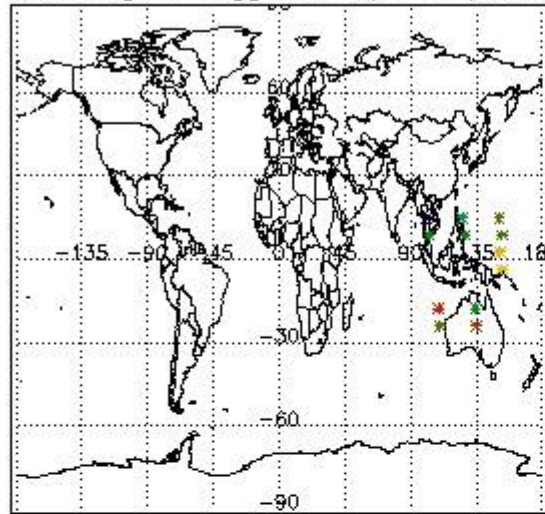
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

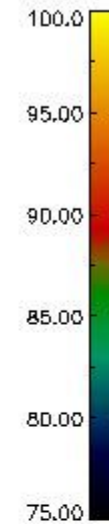
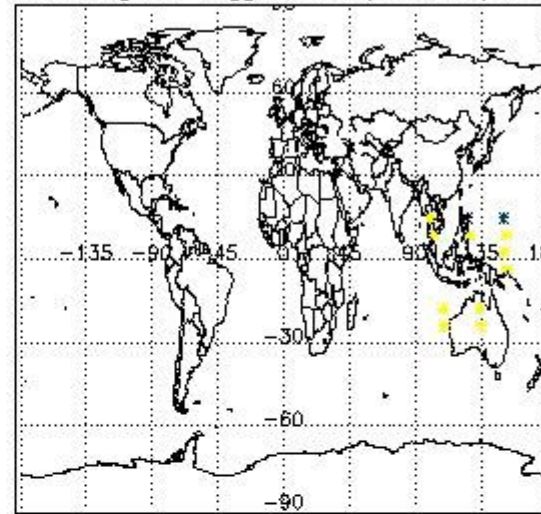


3.2 Plot quality information per product (world map)

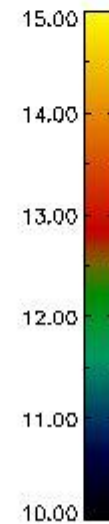
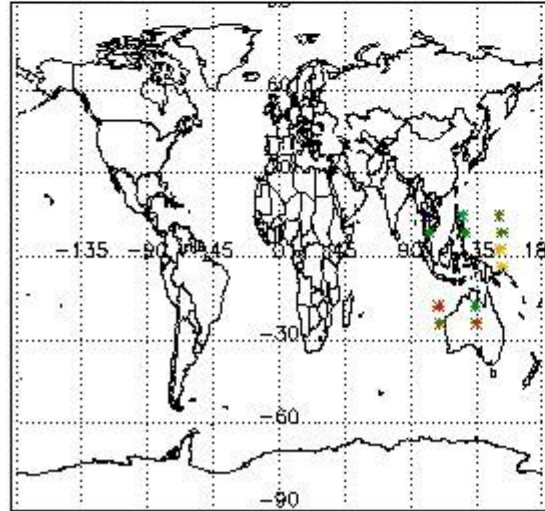
Percentage of flagged data per O3 profile



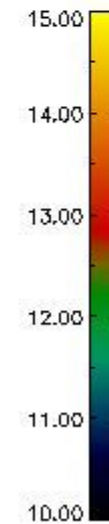
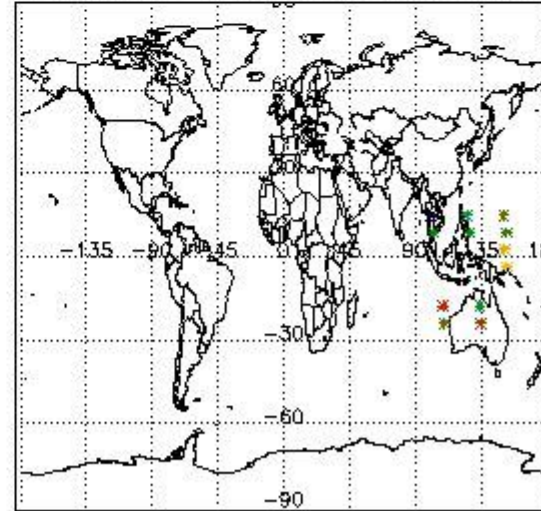
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

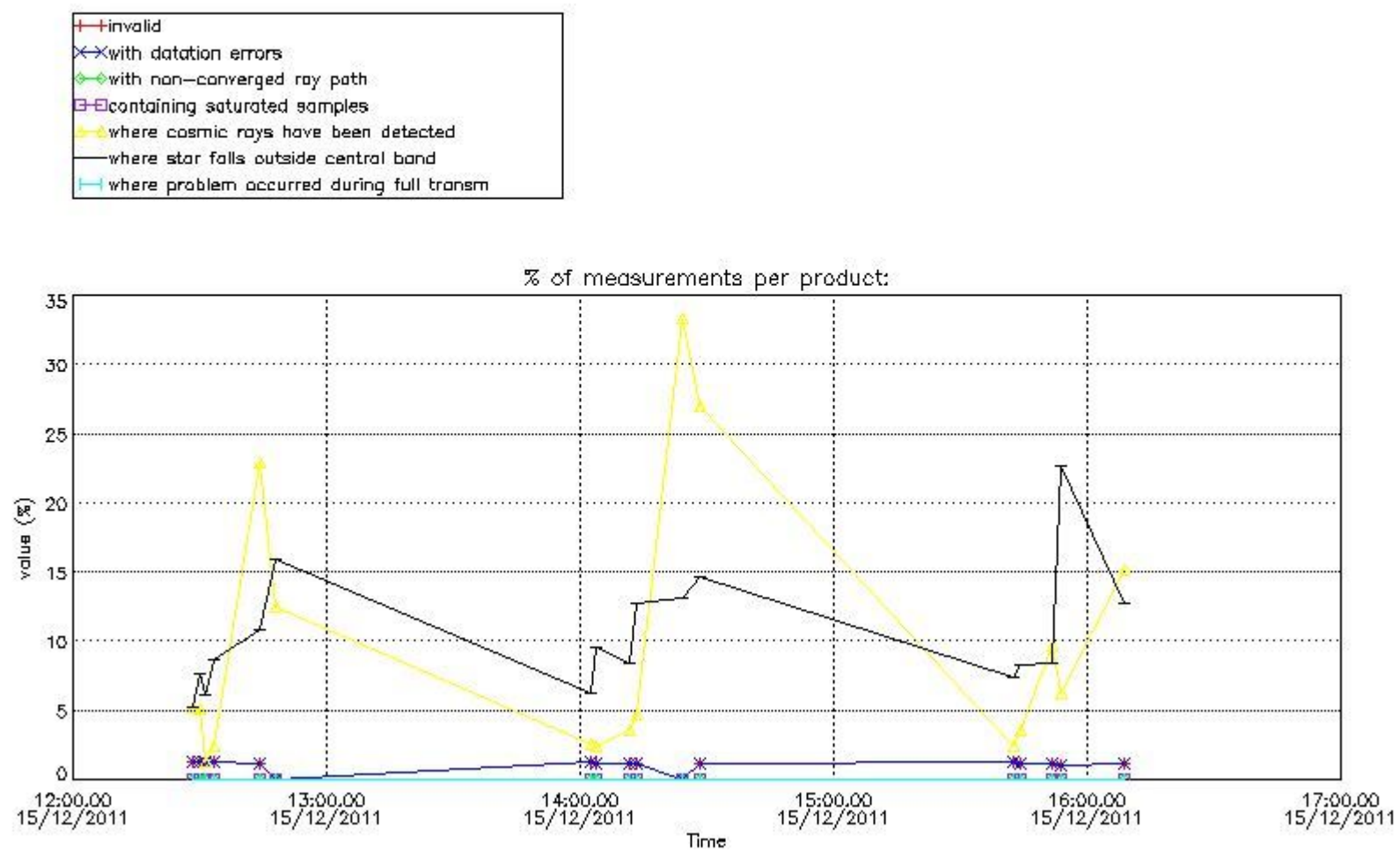


4. Level 1 quality information per product

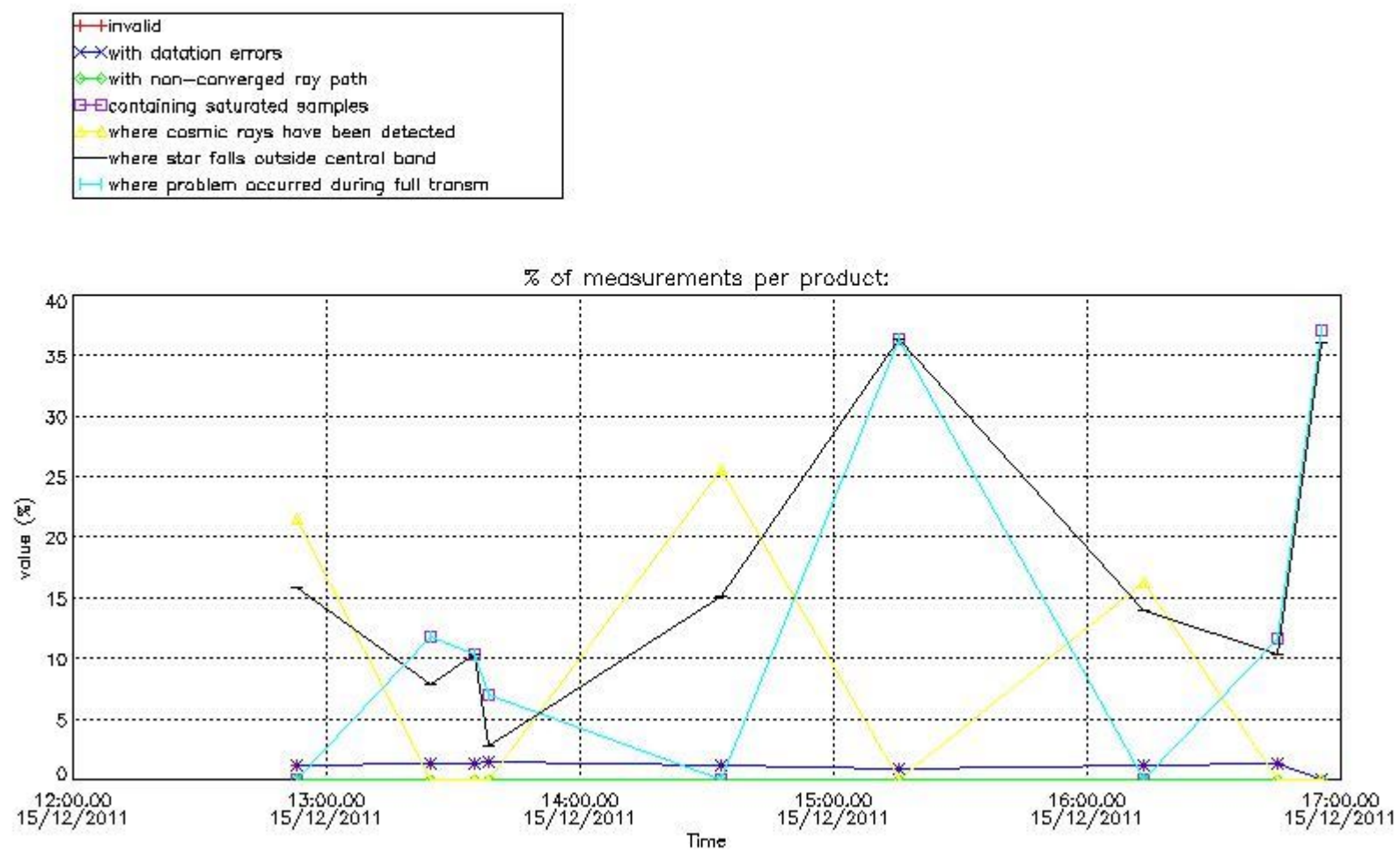
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

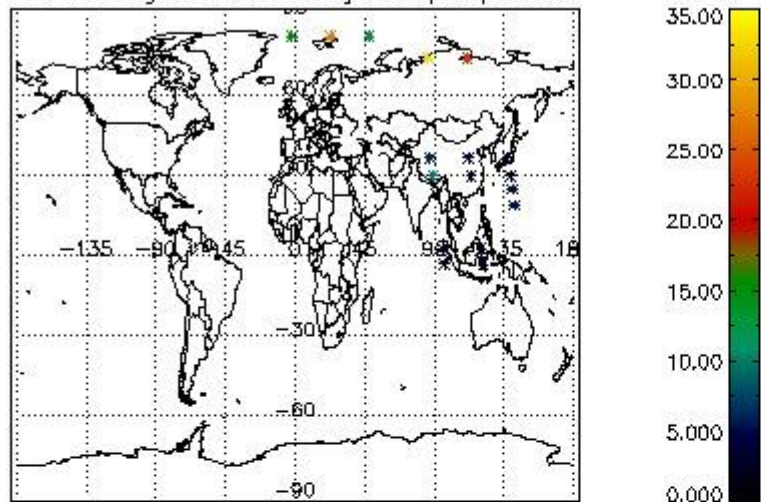


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

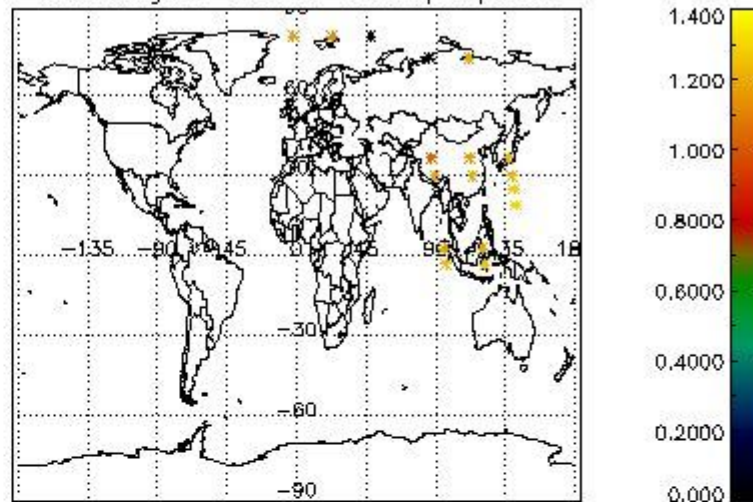


4.2 Plot quality information per product coming from level 1b processing (world map)
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

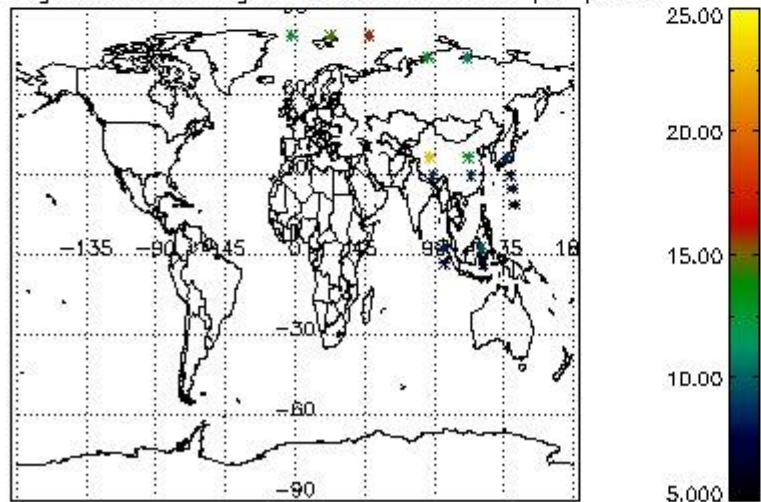
Percentage of cosmic ray hits per profile



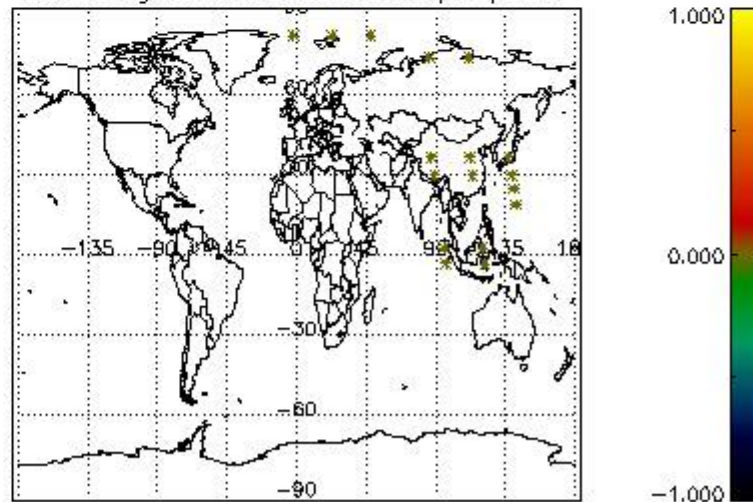
Percentage of datation errors per profile



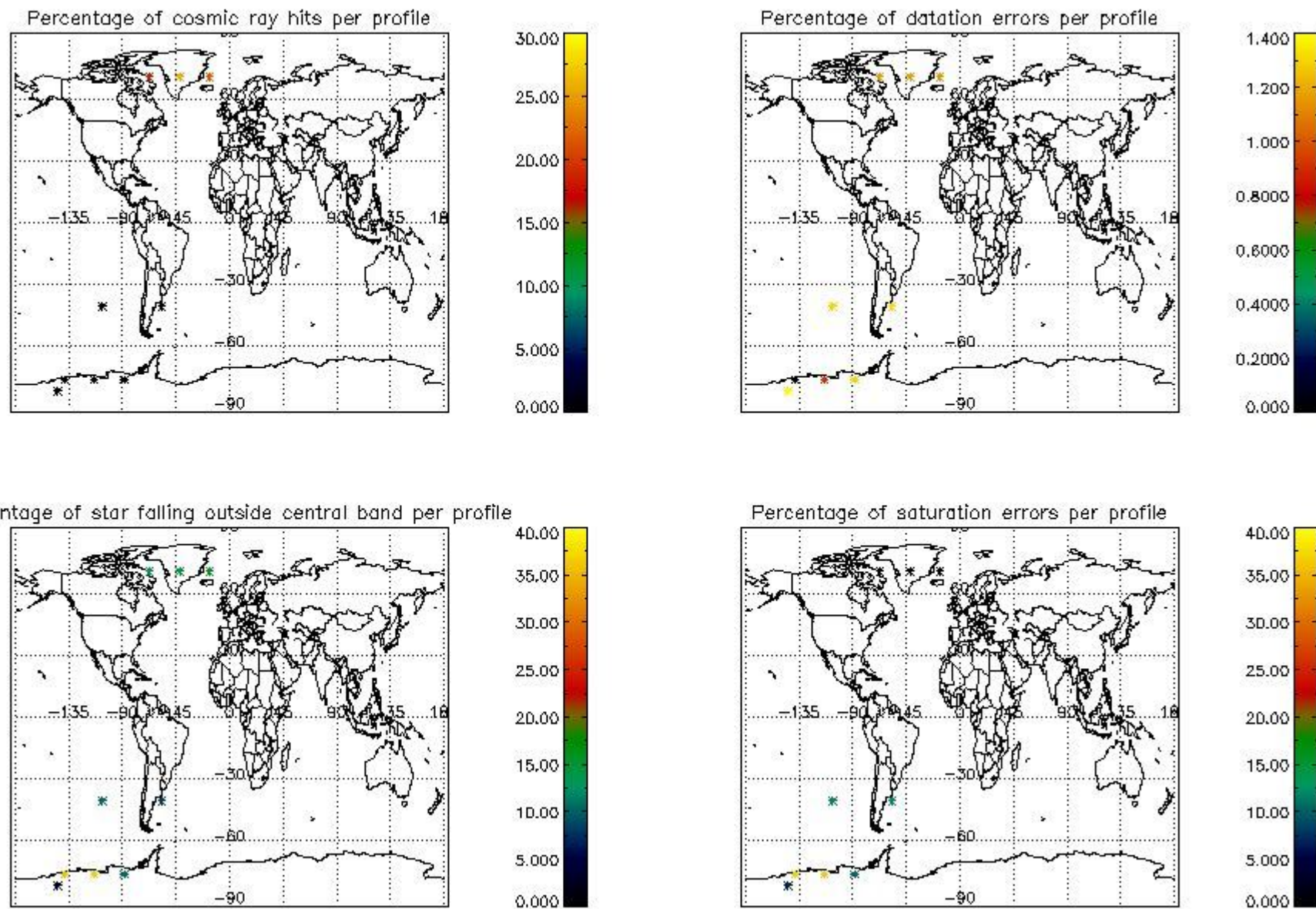
Percentage of star falling outside central band per profile



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

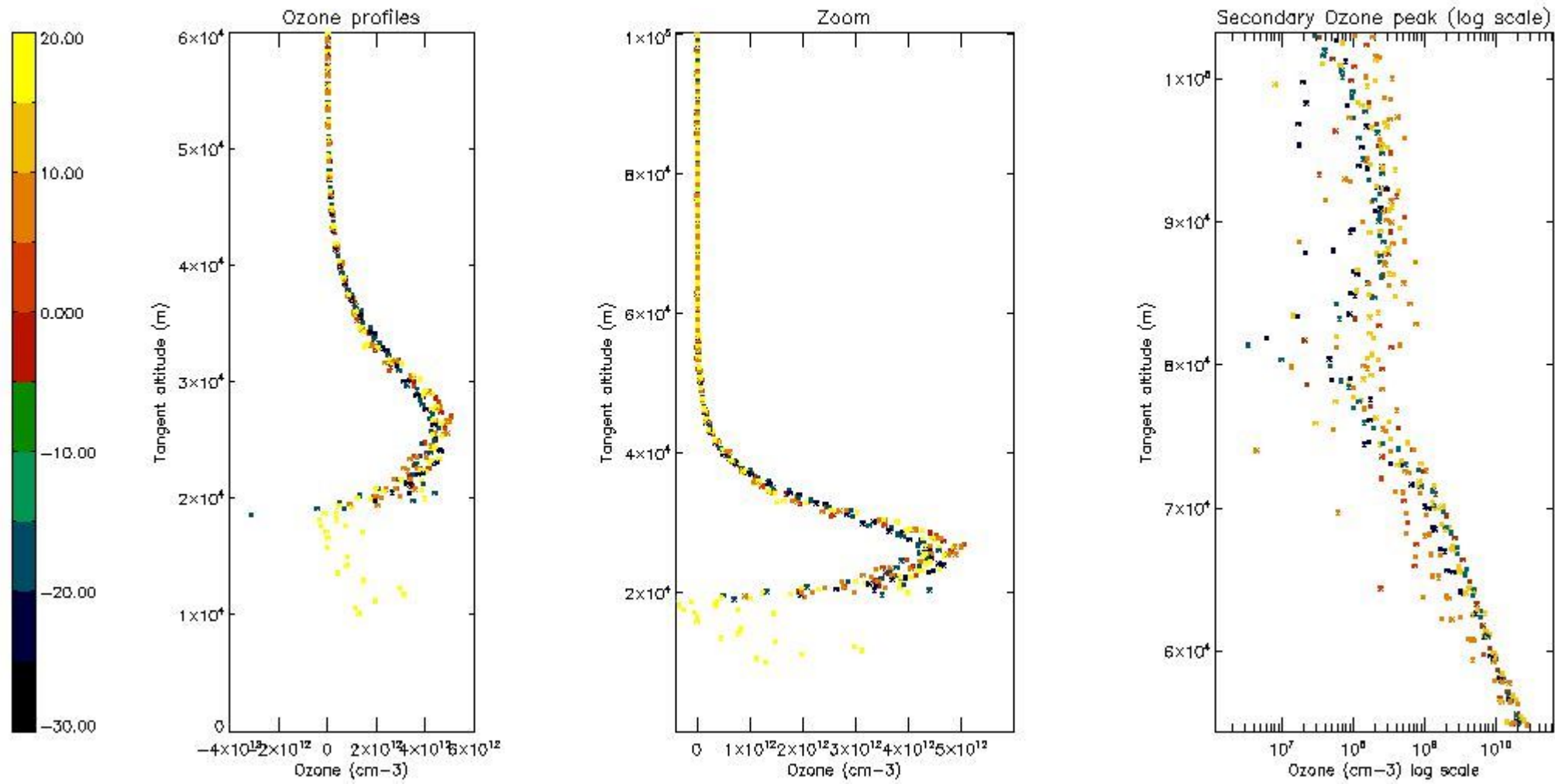
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	46
STD < 20	22

STD < 10	15
STD < 5	5

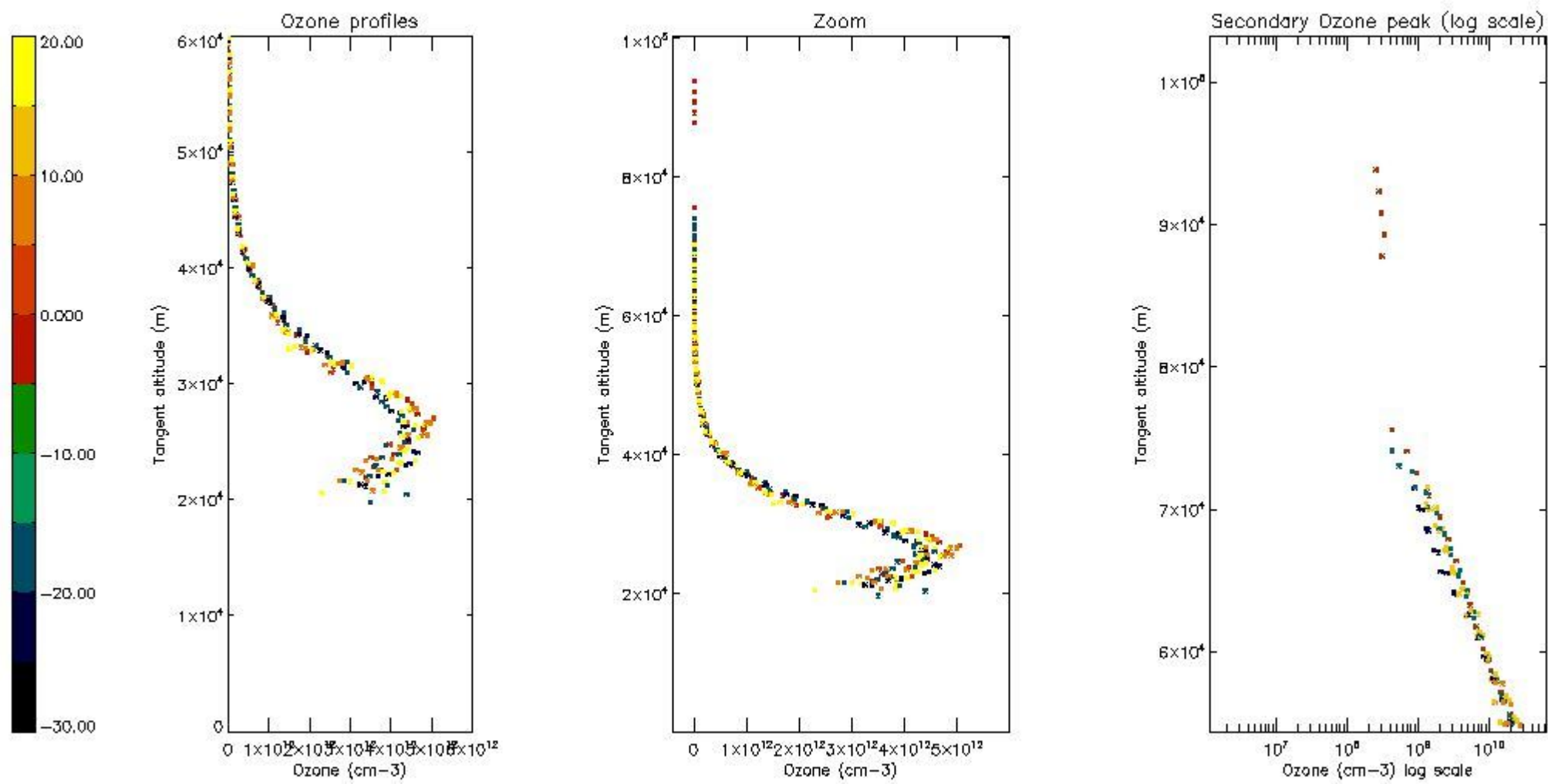
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



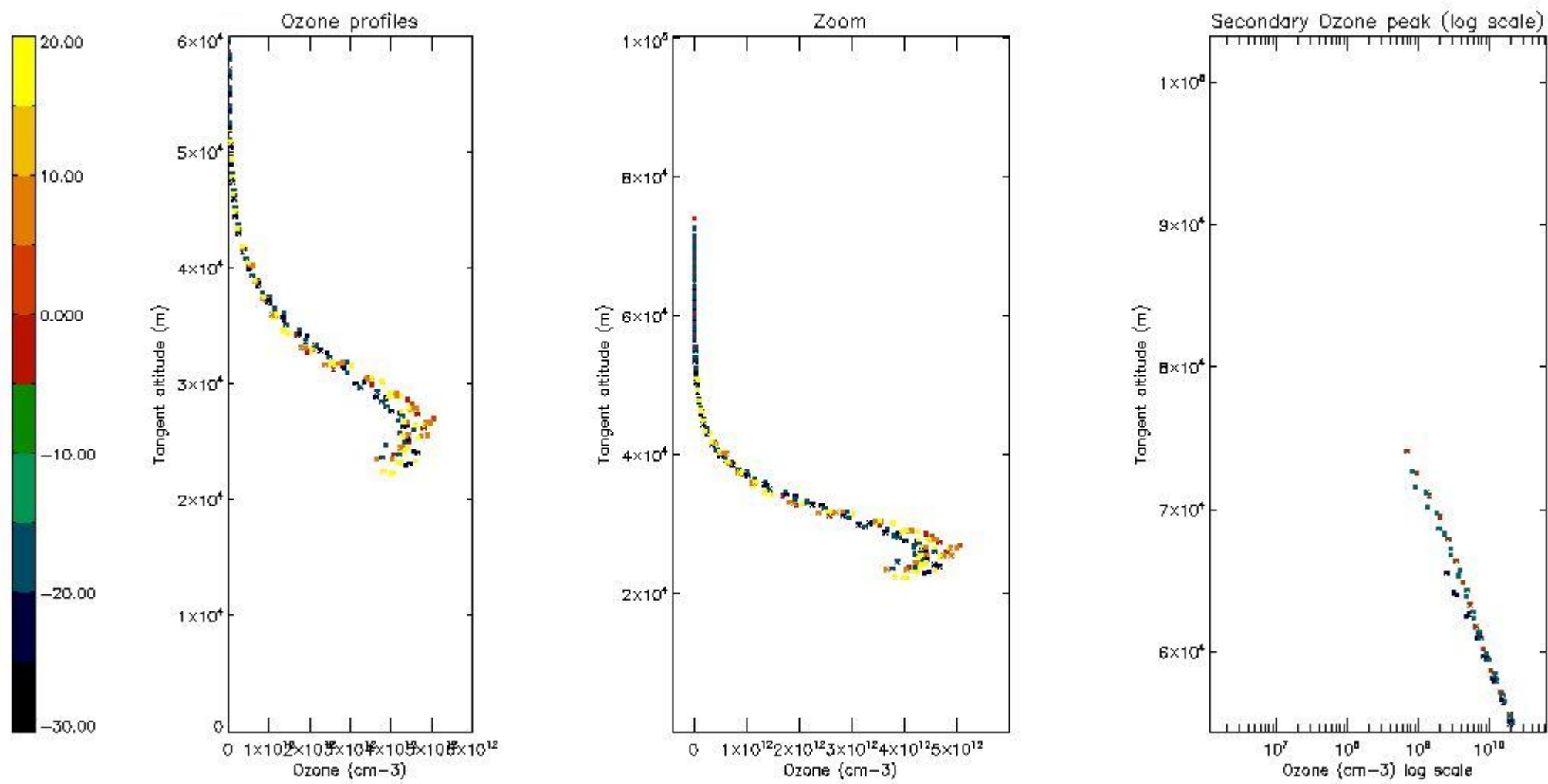
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



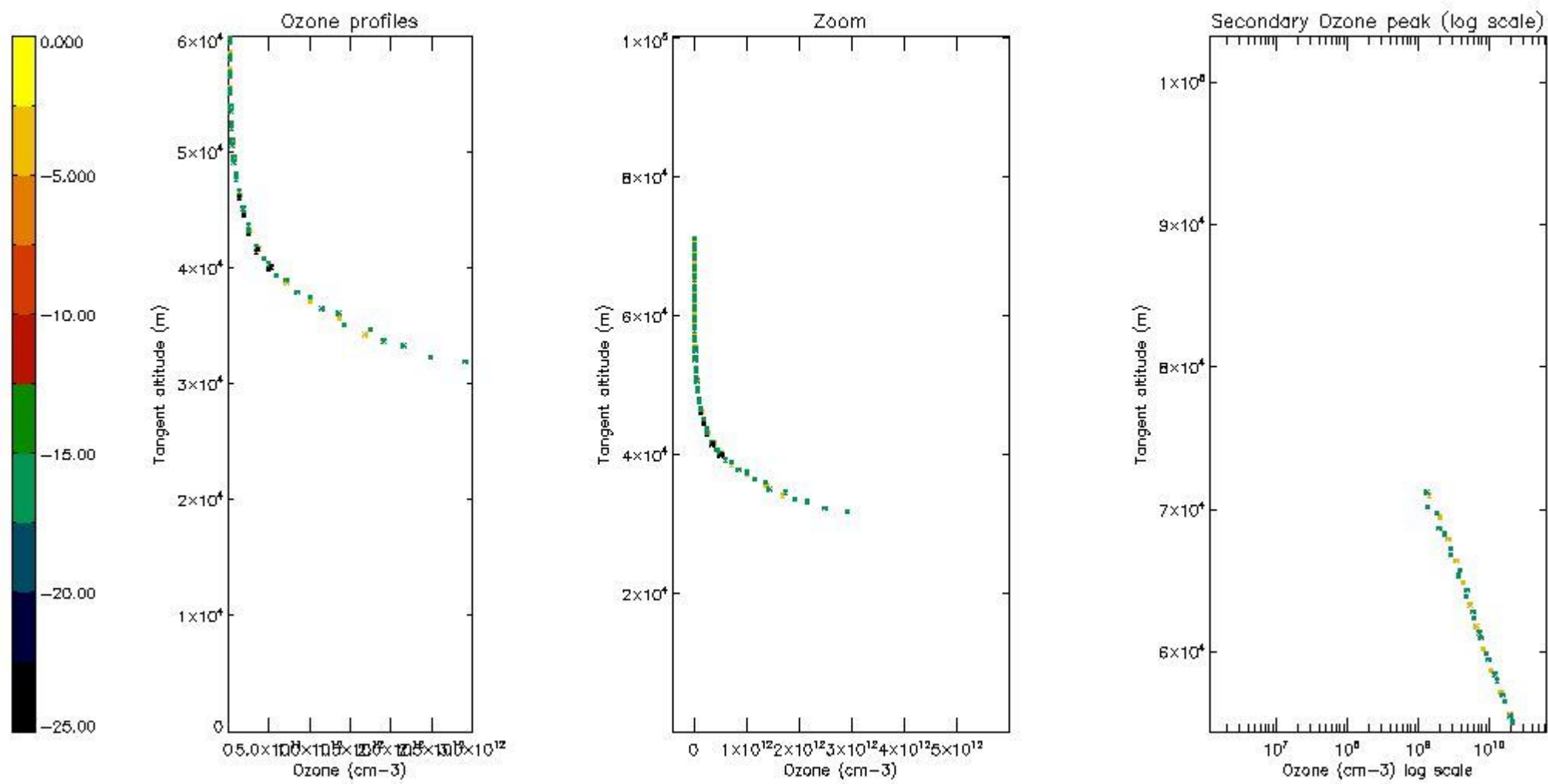
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



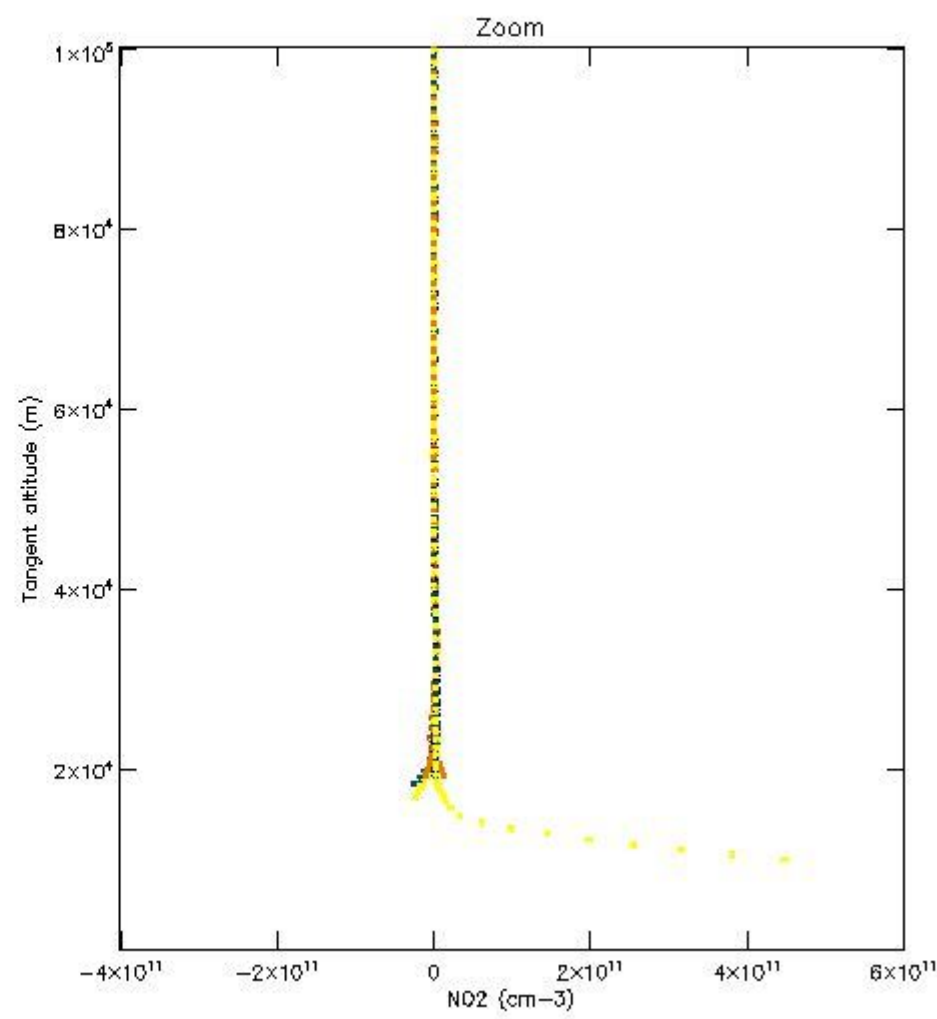
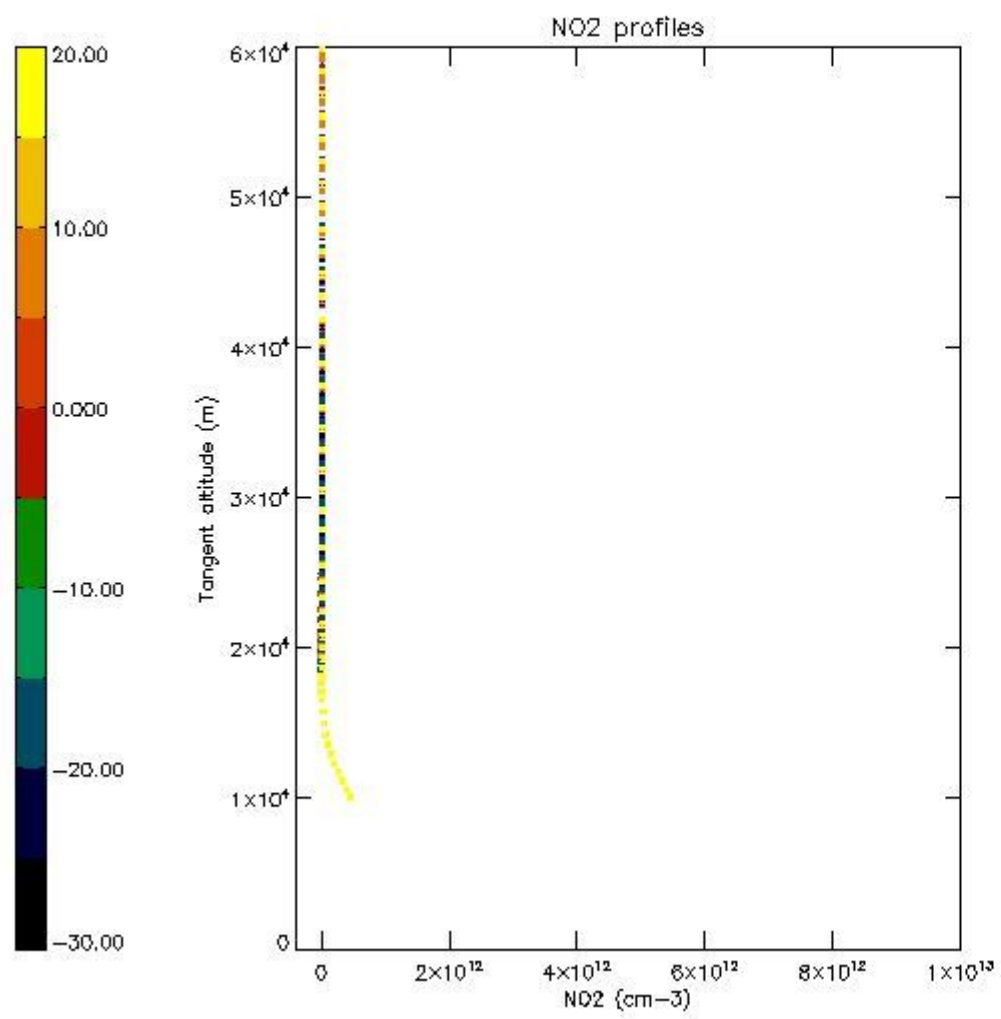
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



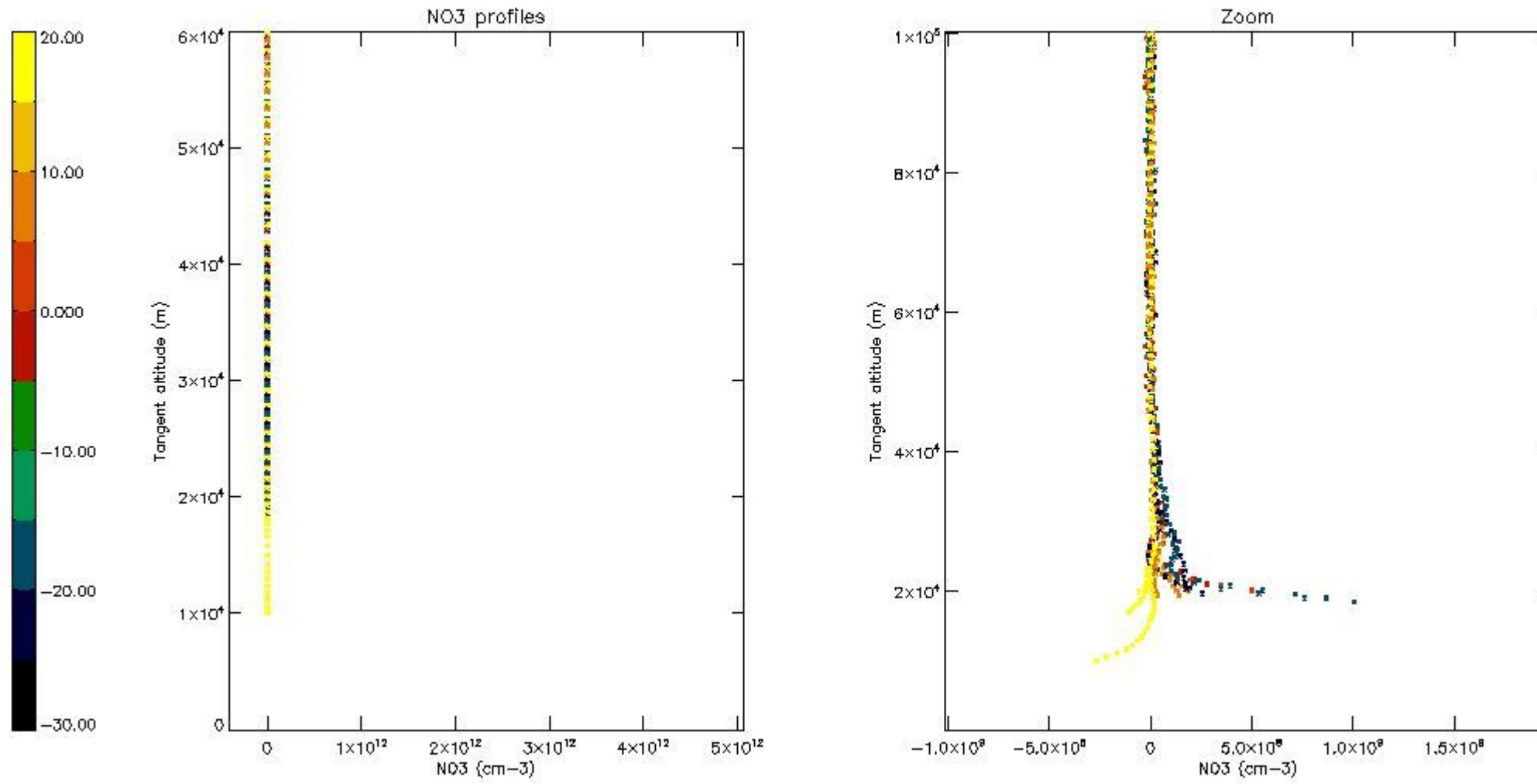
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

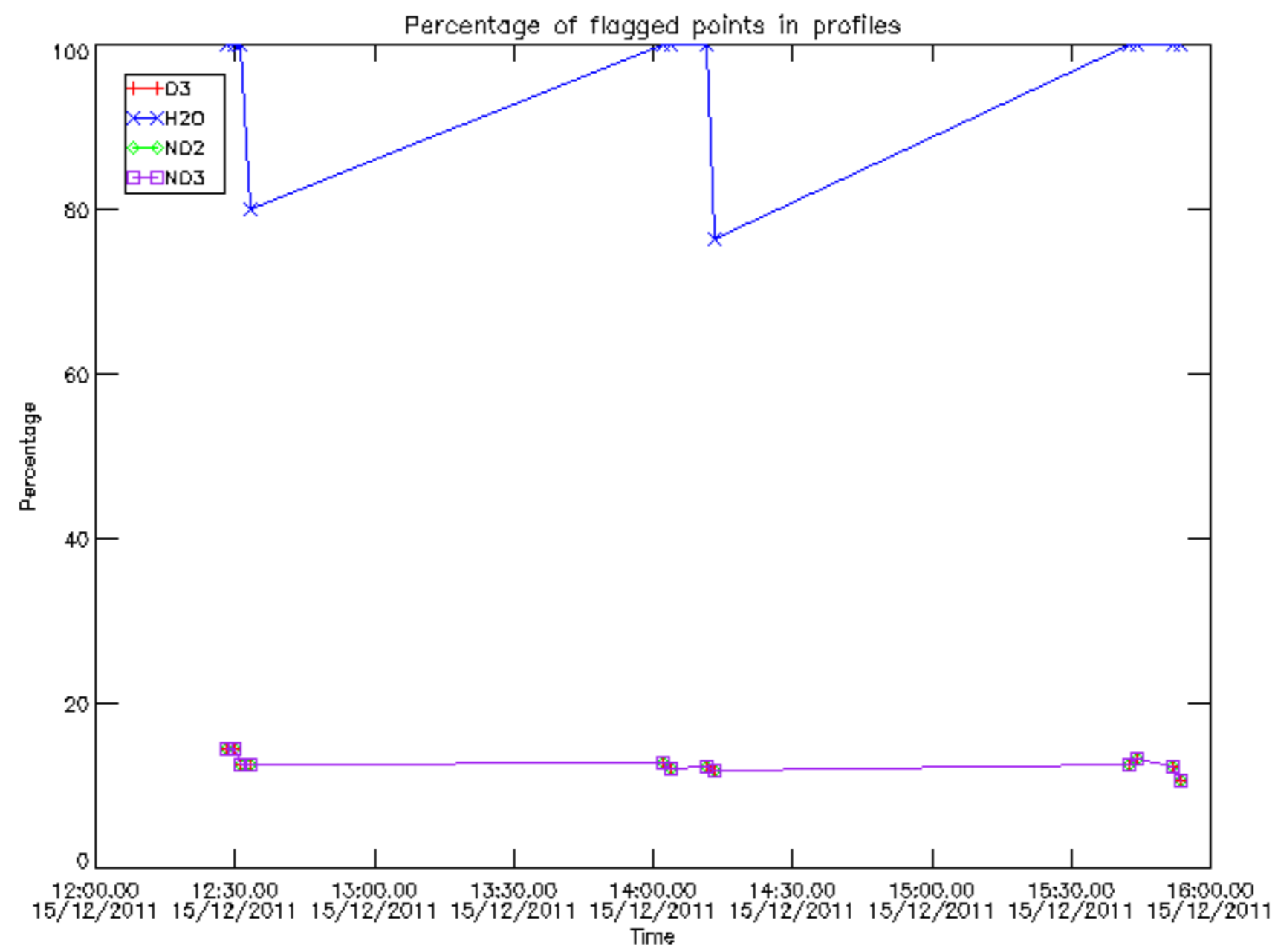
The colorbar represents the latitude.



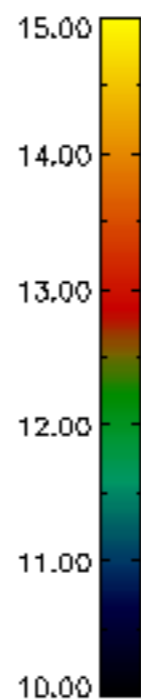
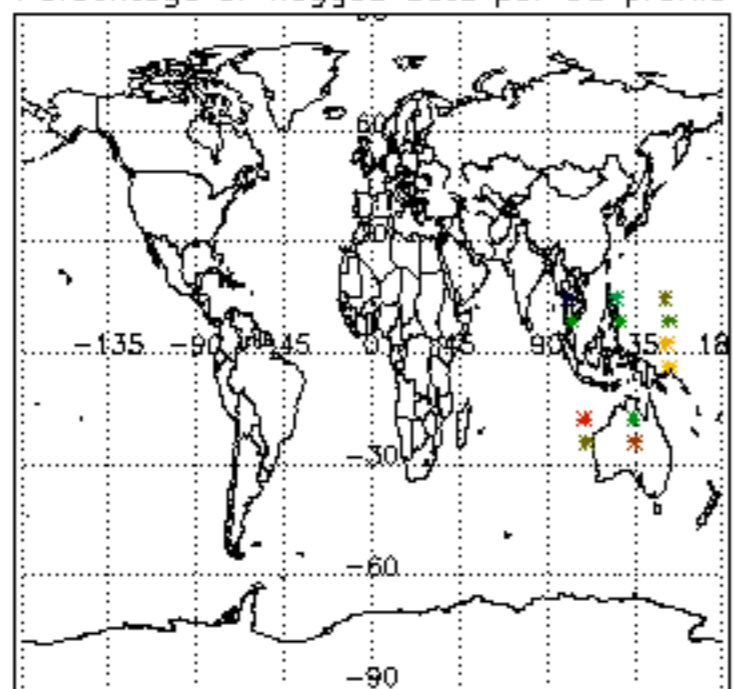
6. Auxiliary Data Files used for the production reported in section 2

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.

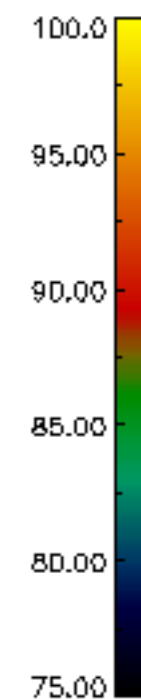
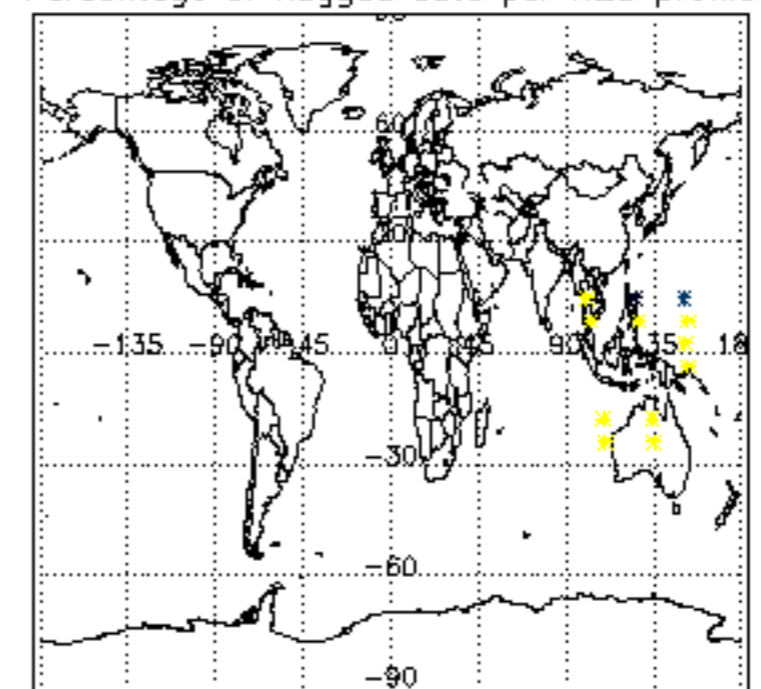
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	15-DEC-2011 12:28:11
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-DEC-2011 12:28:11
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-DEC-2011 12:28:11



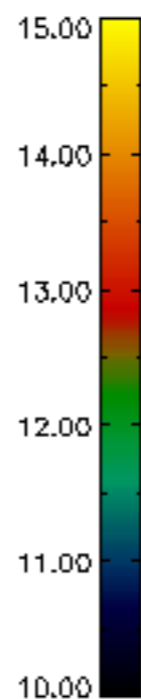
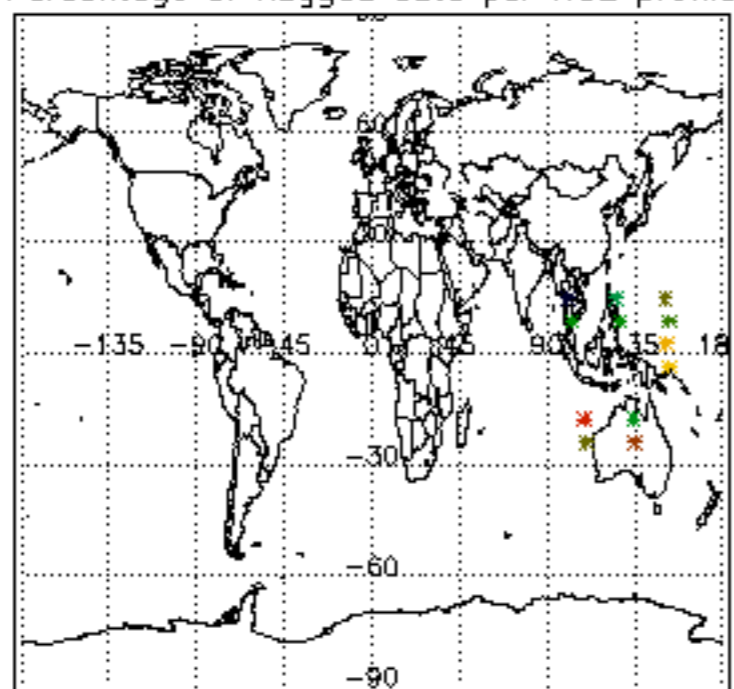
Percentage of flagged data per D3 profile



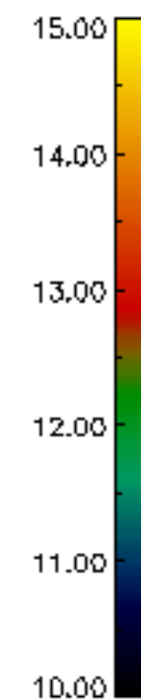
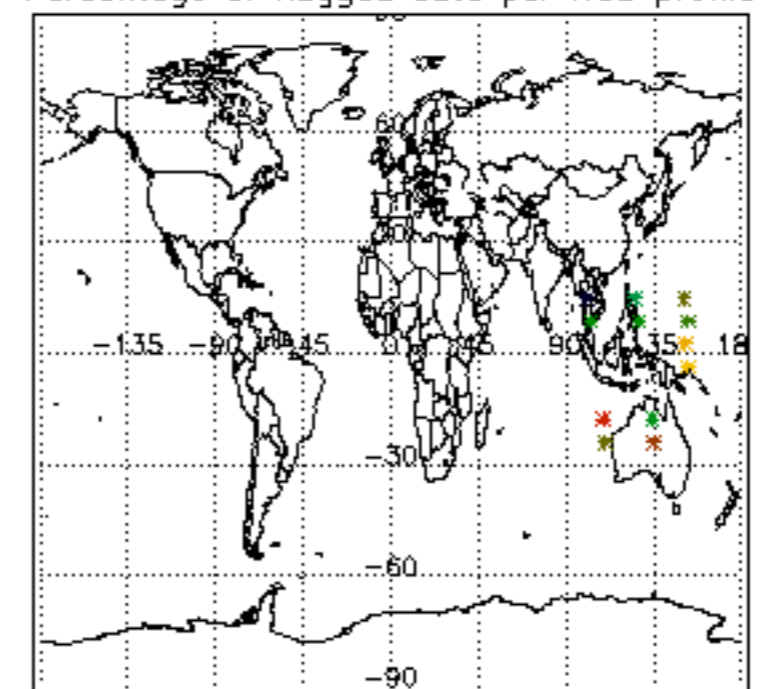
Percentage of flagged data per H2O profile

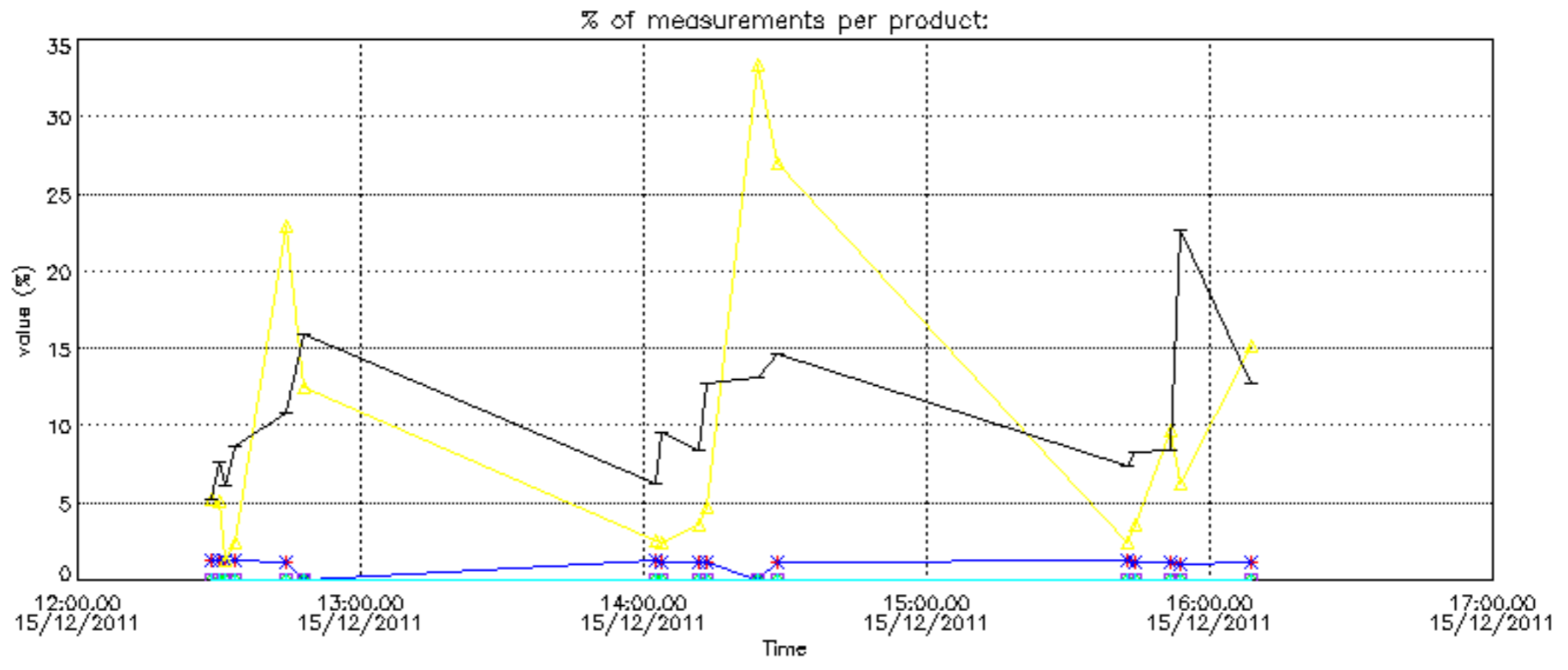


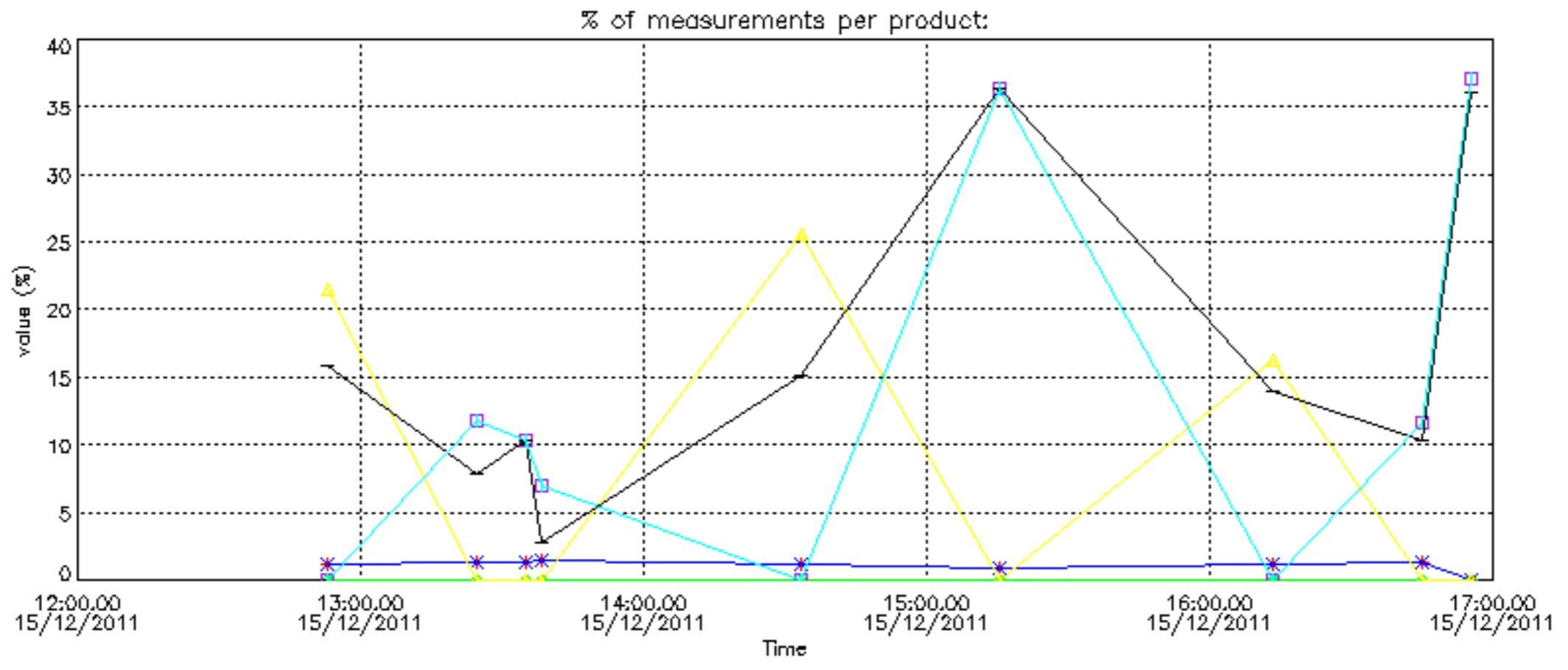
Percentage of flagged data per NO2 profile



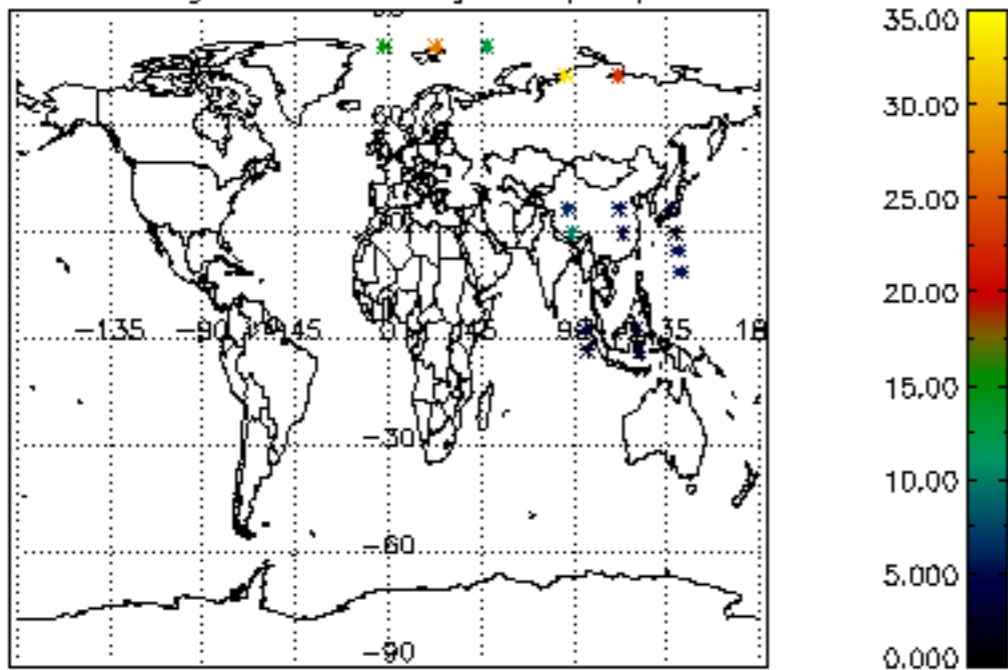
Percentage of flagged data per NO3 profile



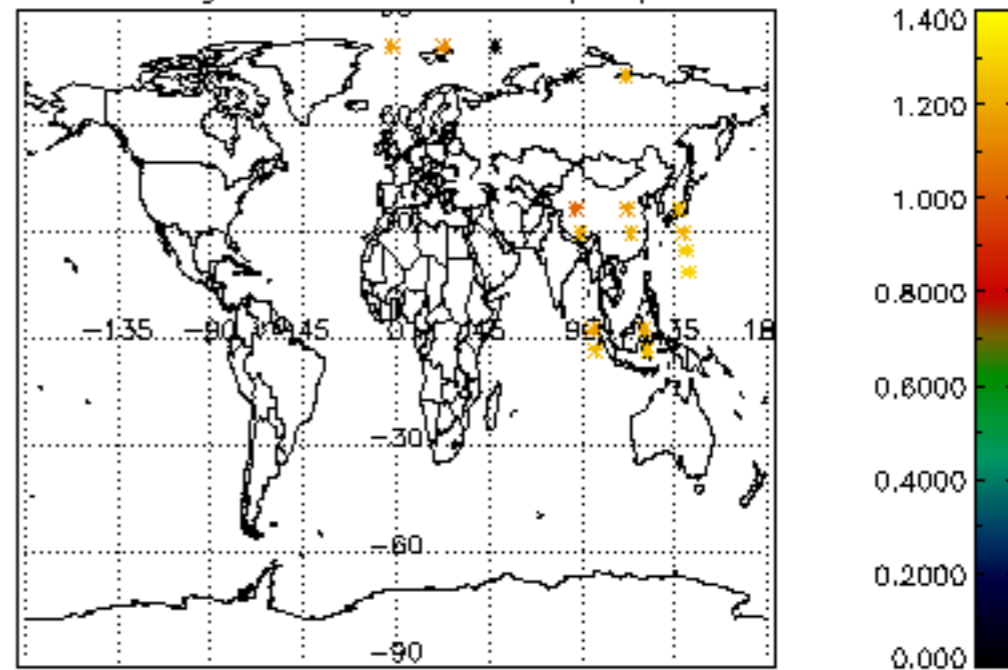




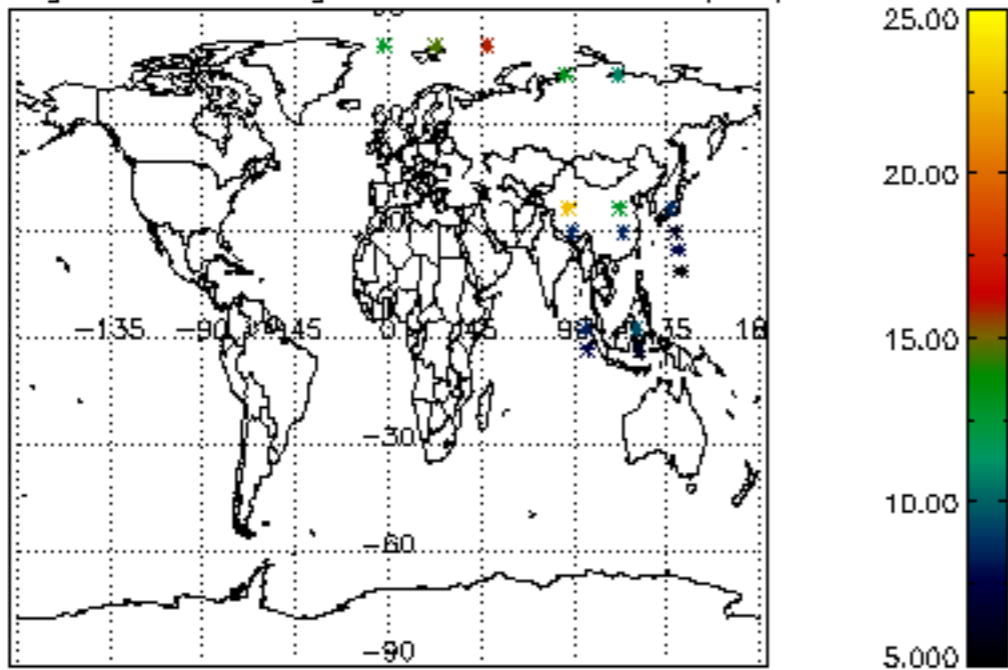
Percentage of cosmic ray hits per profile



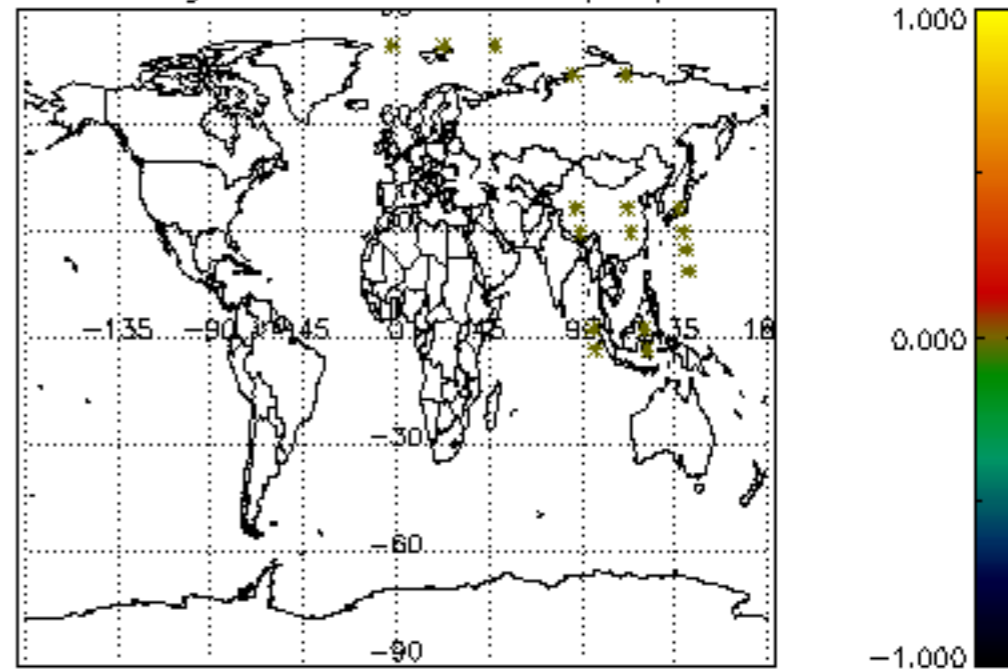
Percentage of datation errors per profile



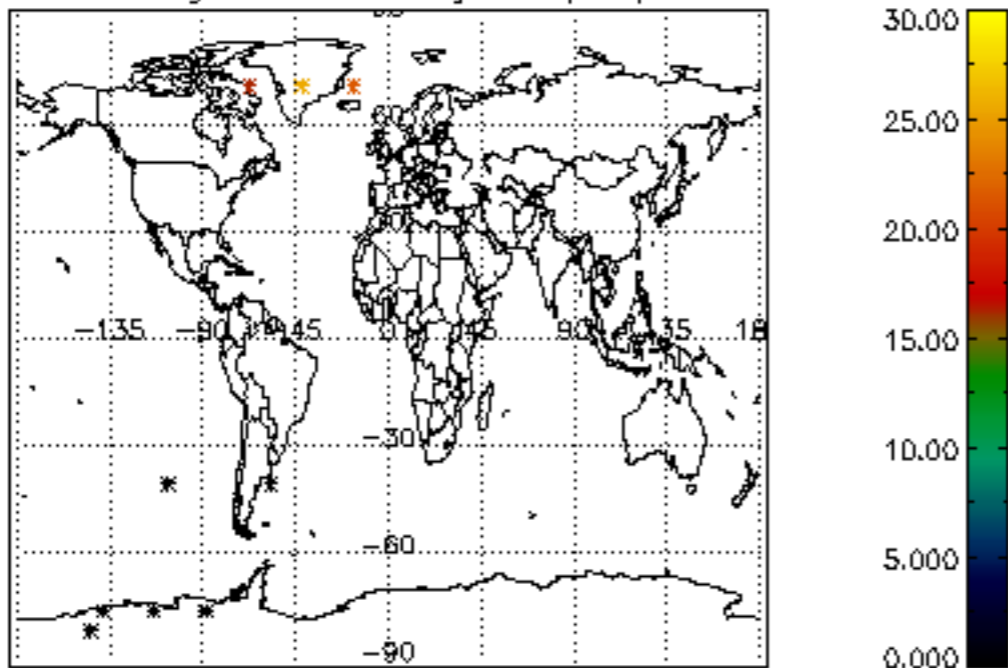
Percentage of star falling outside central band per profile



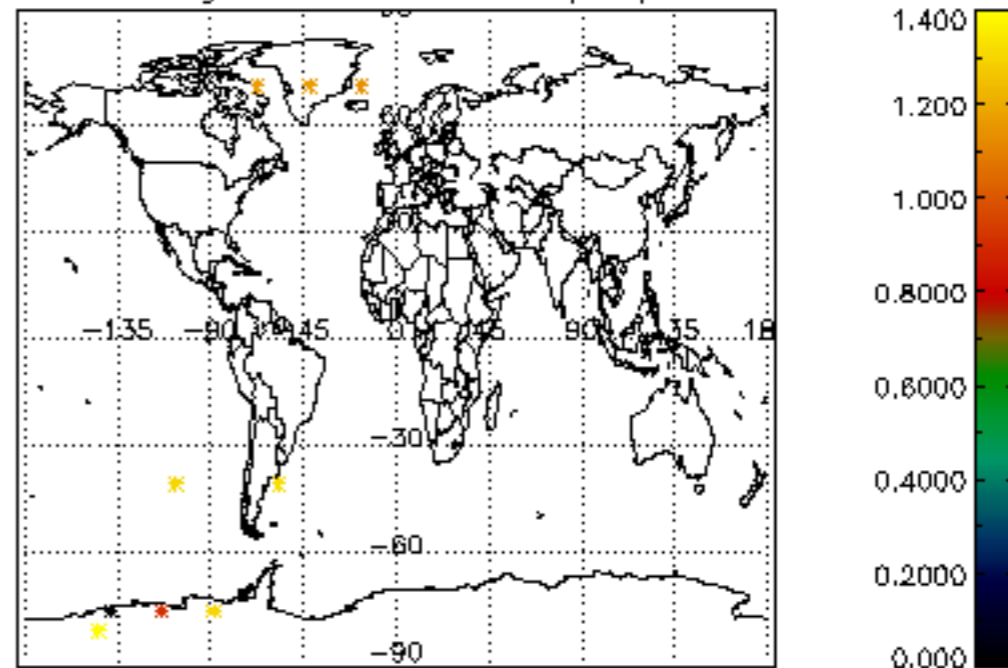
Percentage of saturation errors per profile



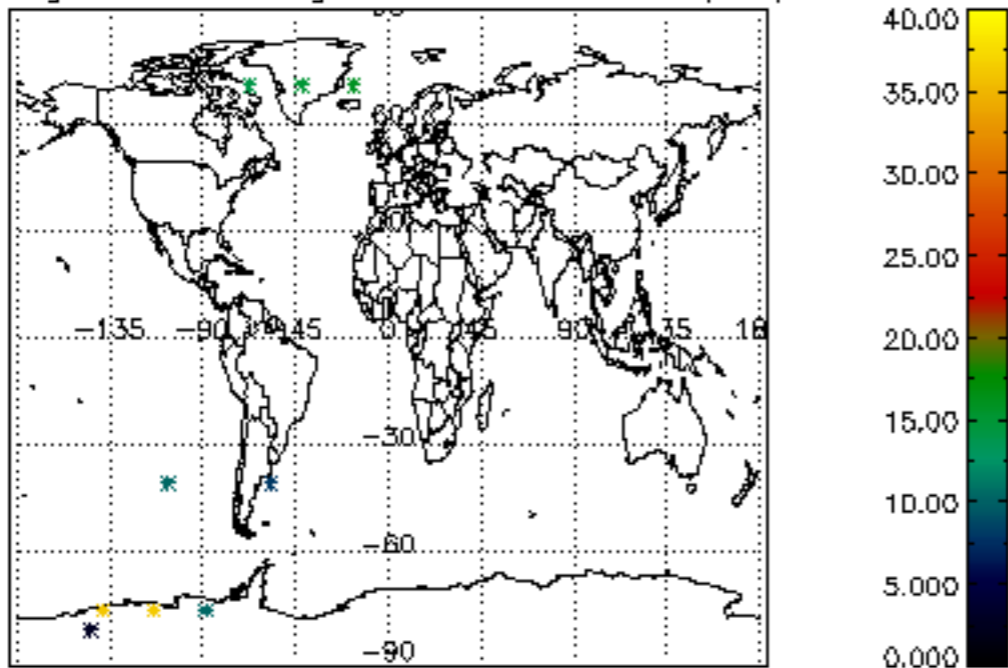
Percentage of cosmic ray hits per profile



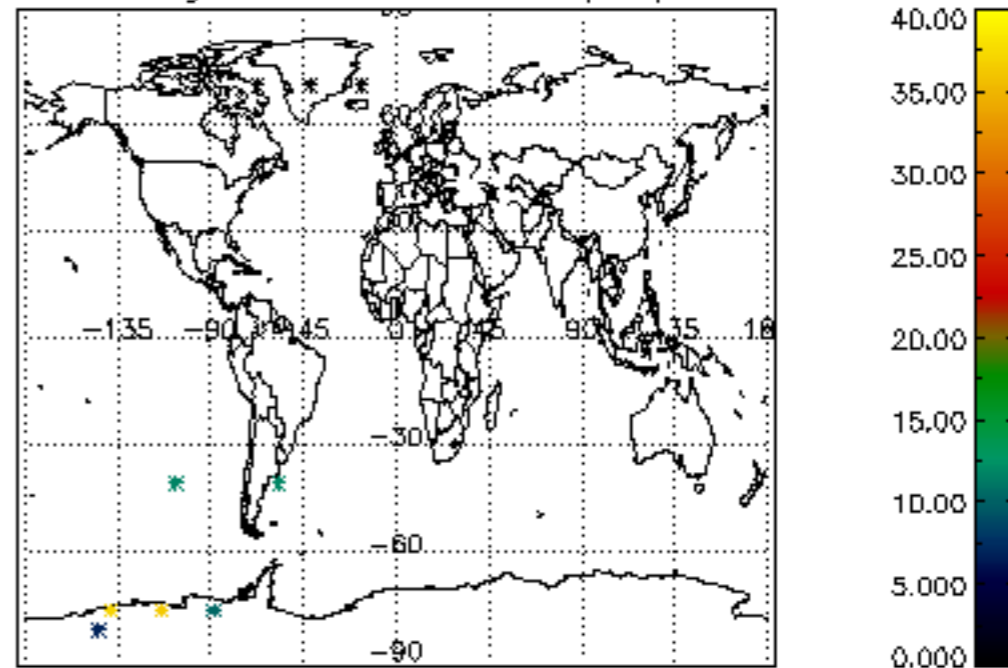
Percentage of datation errors per profile

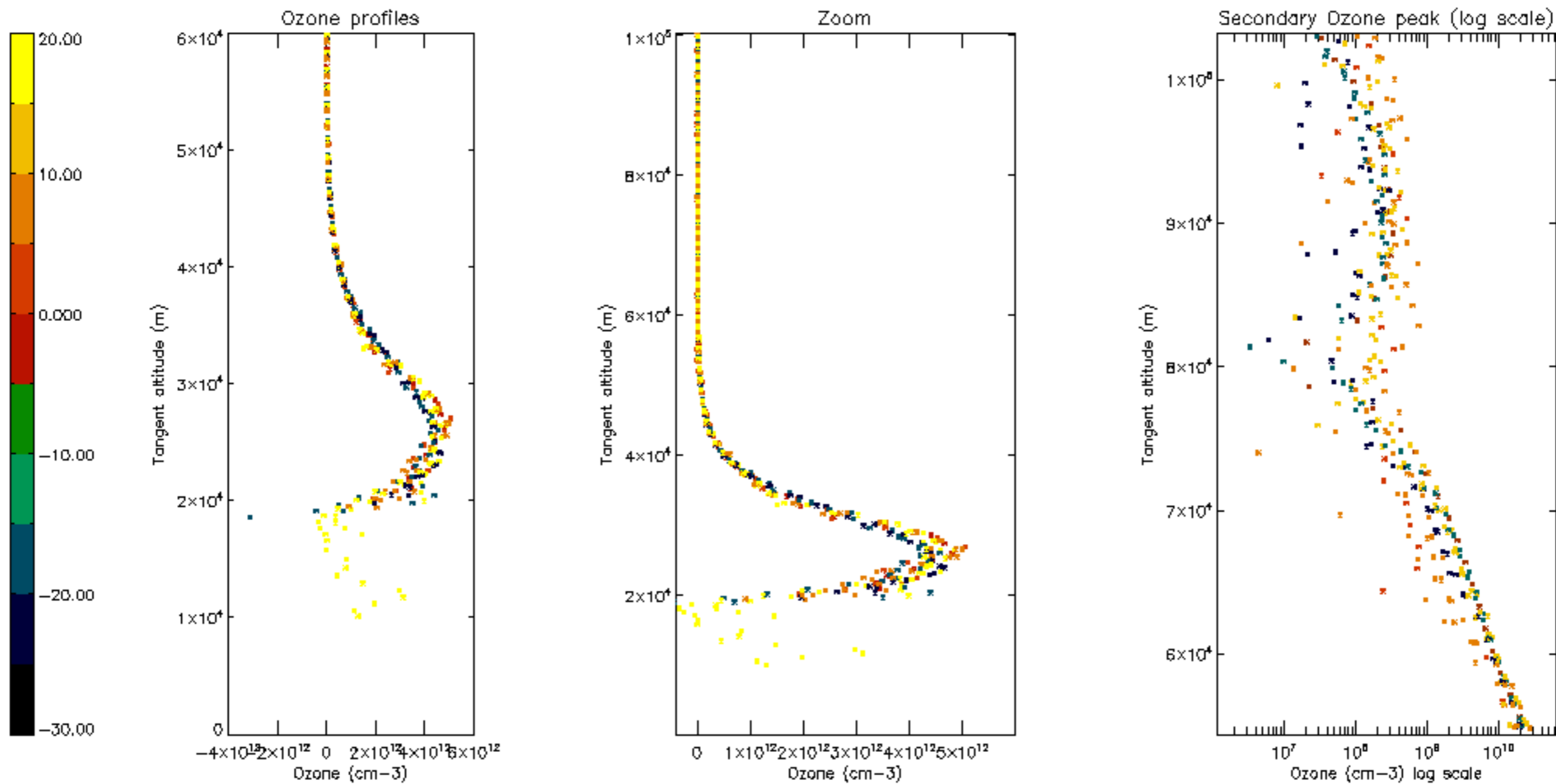


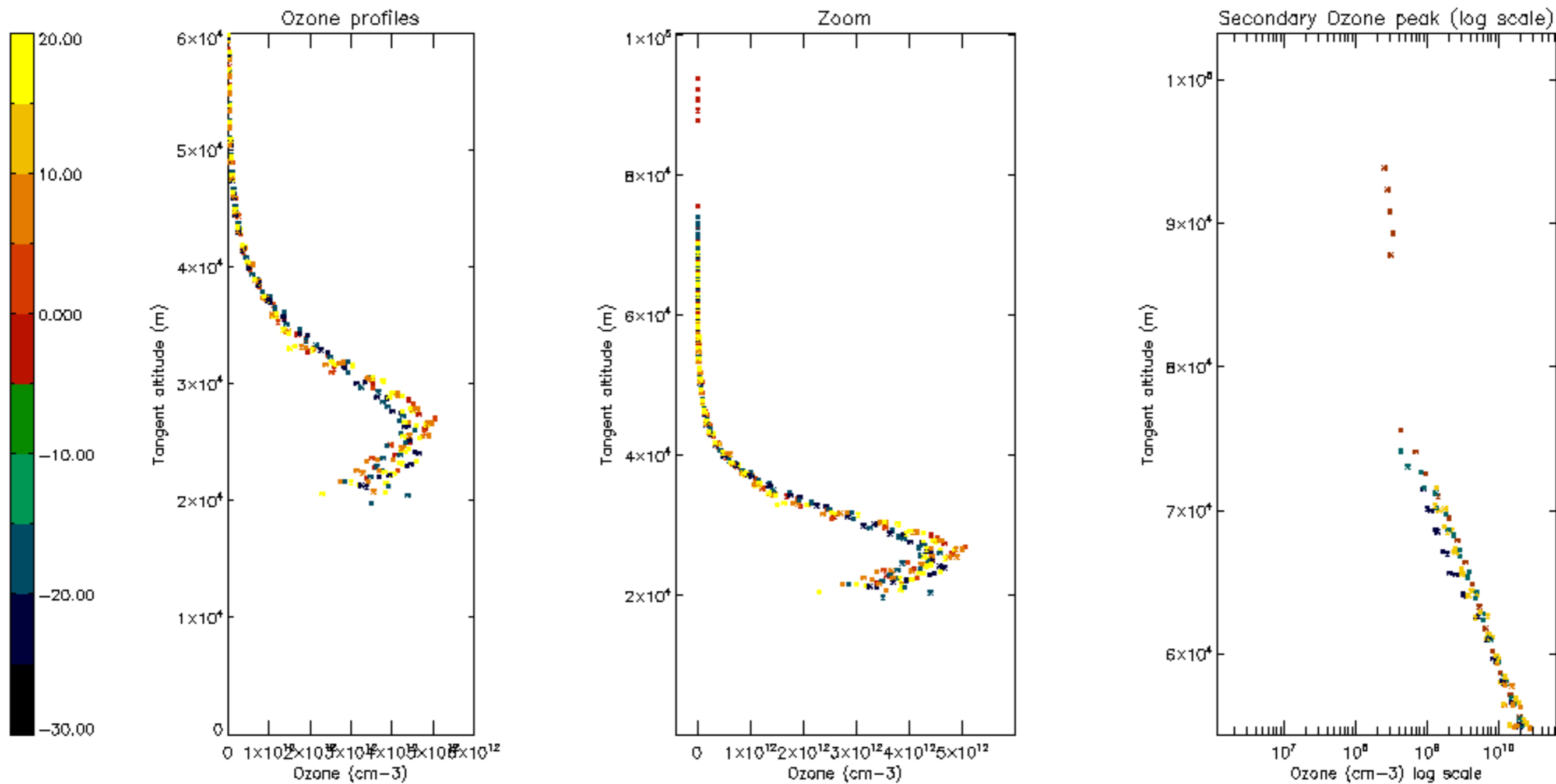
Percentage of star falling outside central band per profile

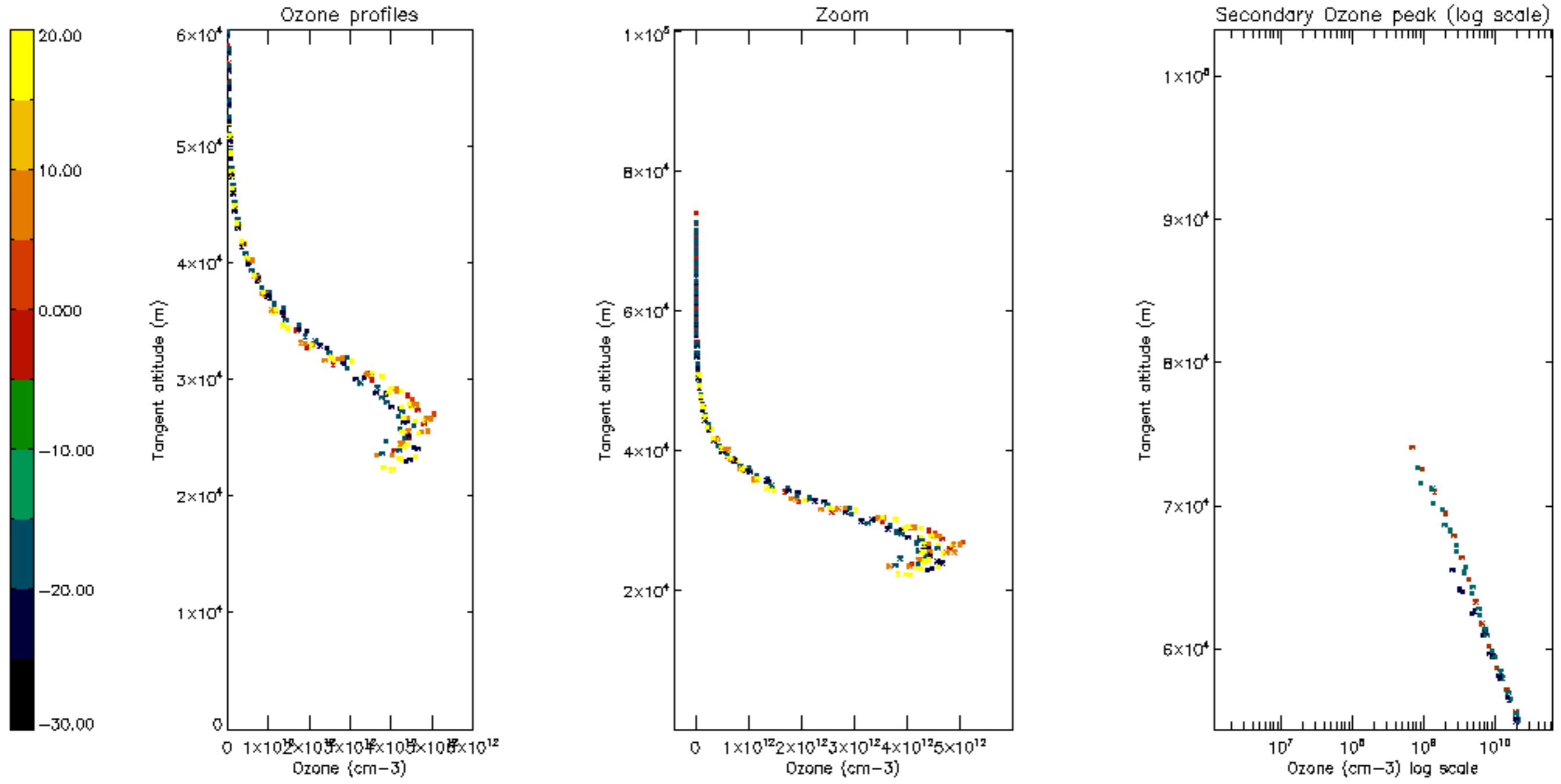


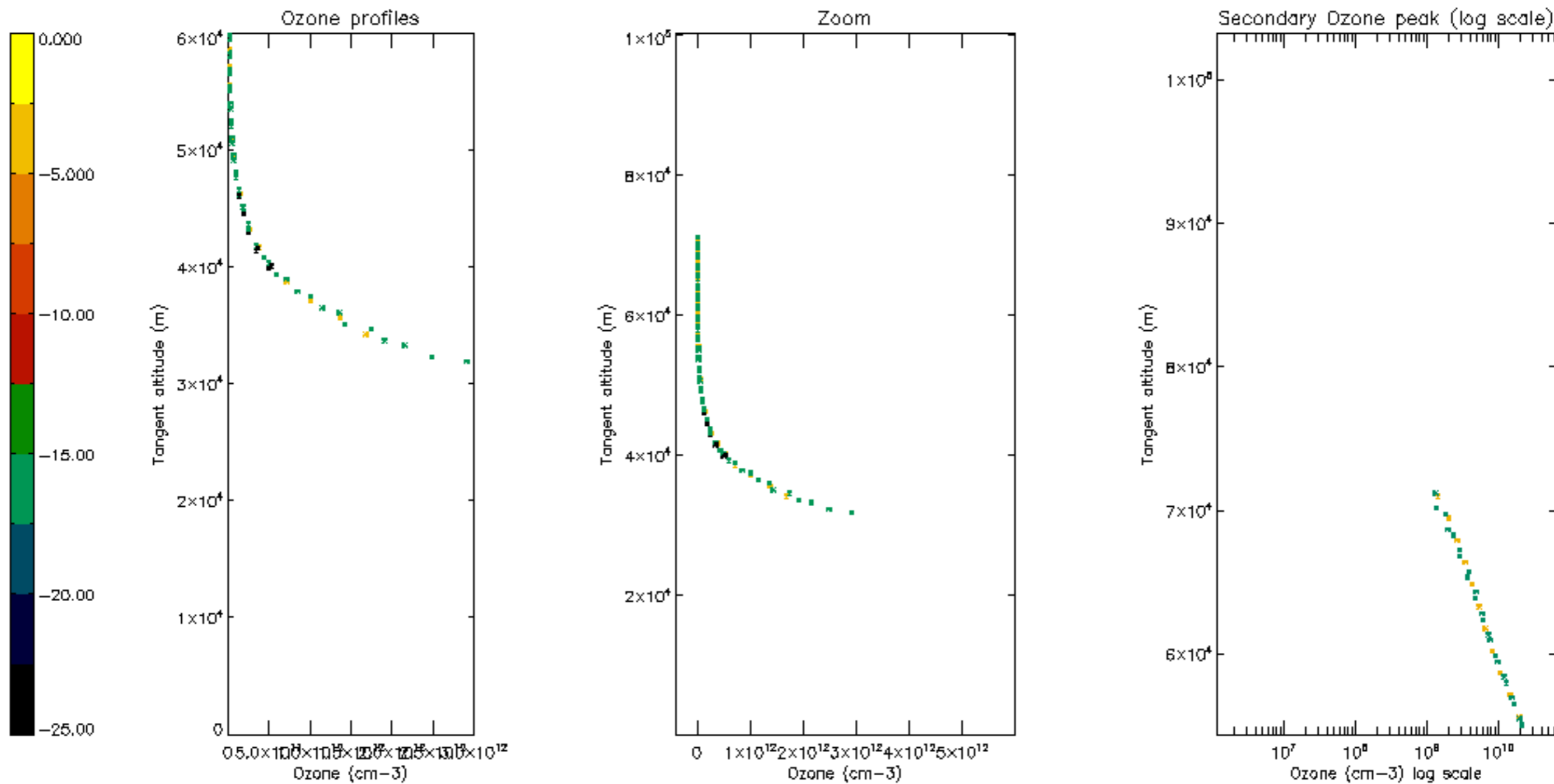
Percentage of saturation errors per profile

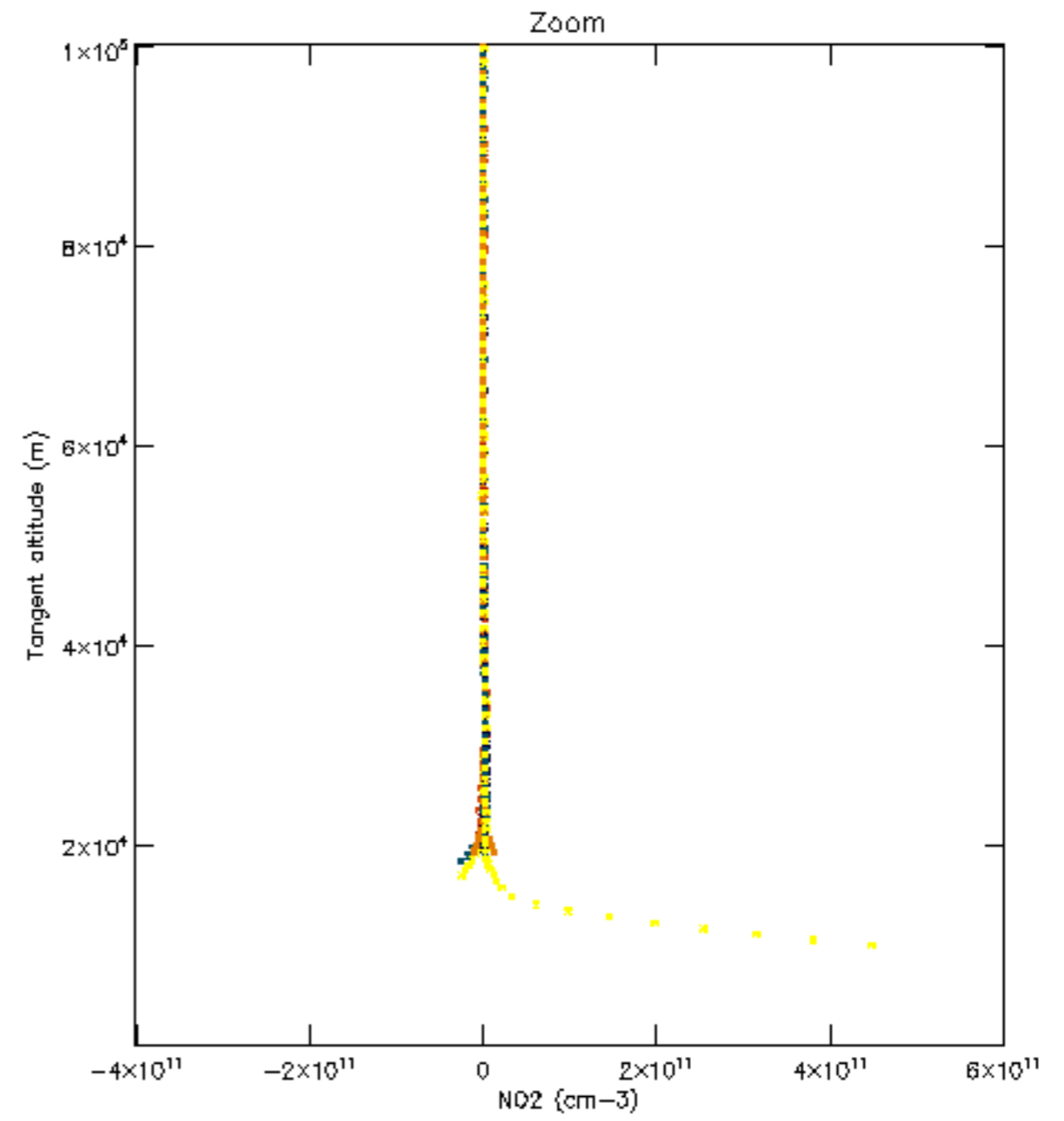
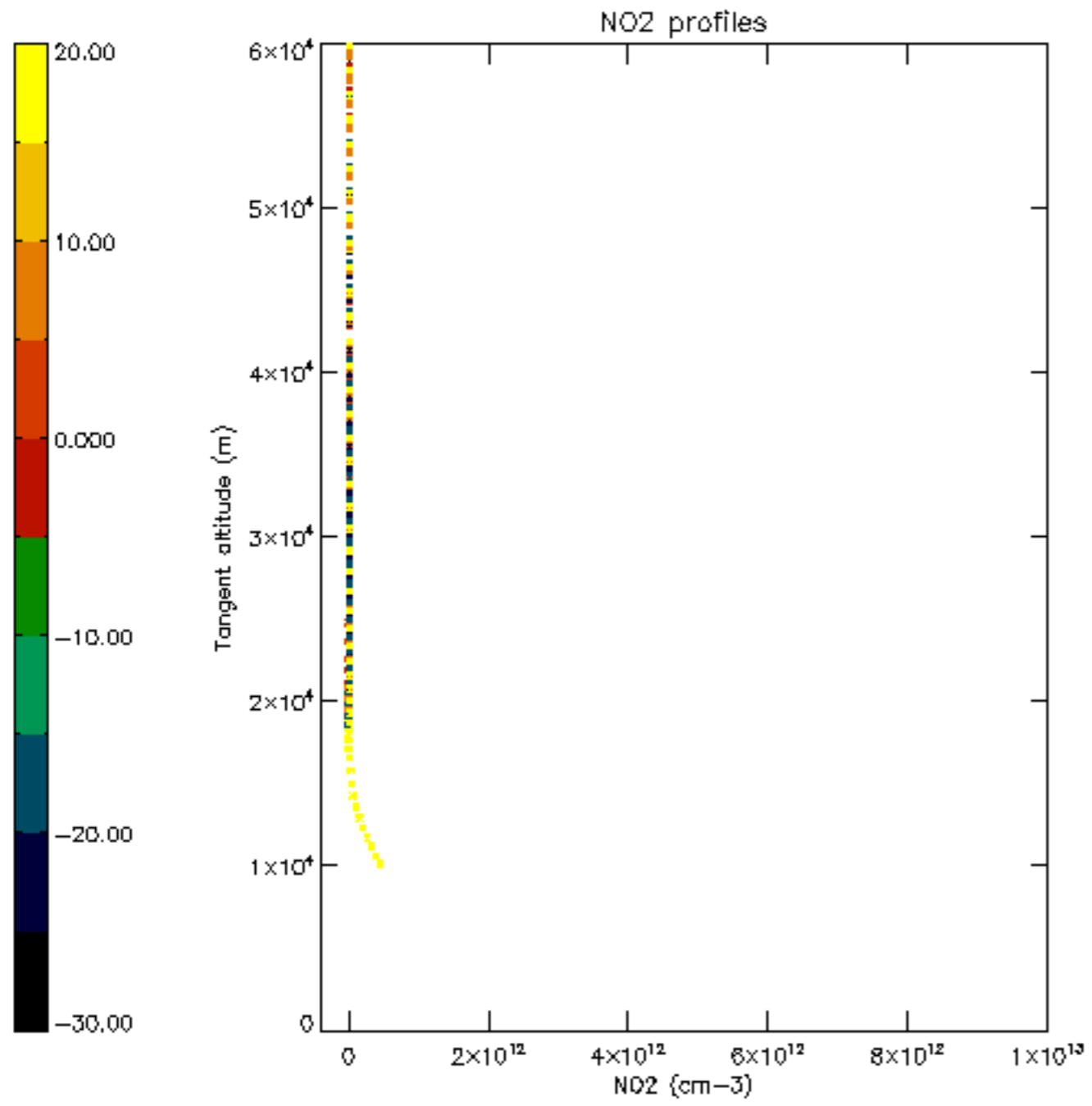


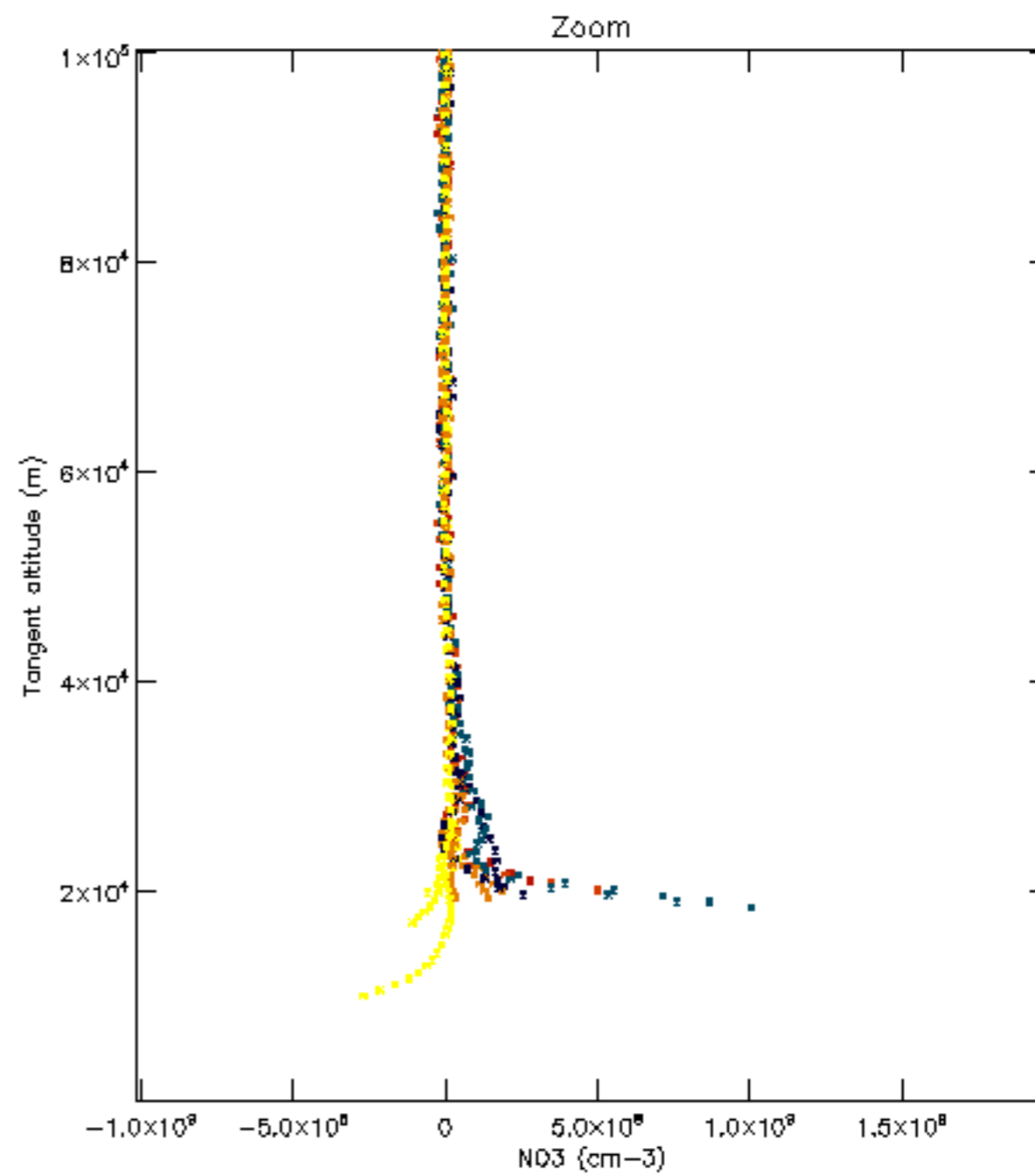
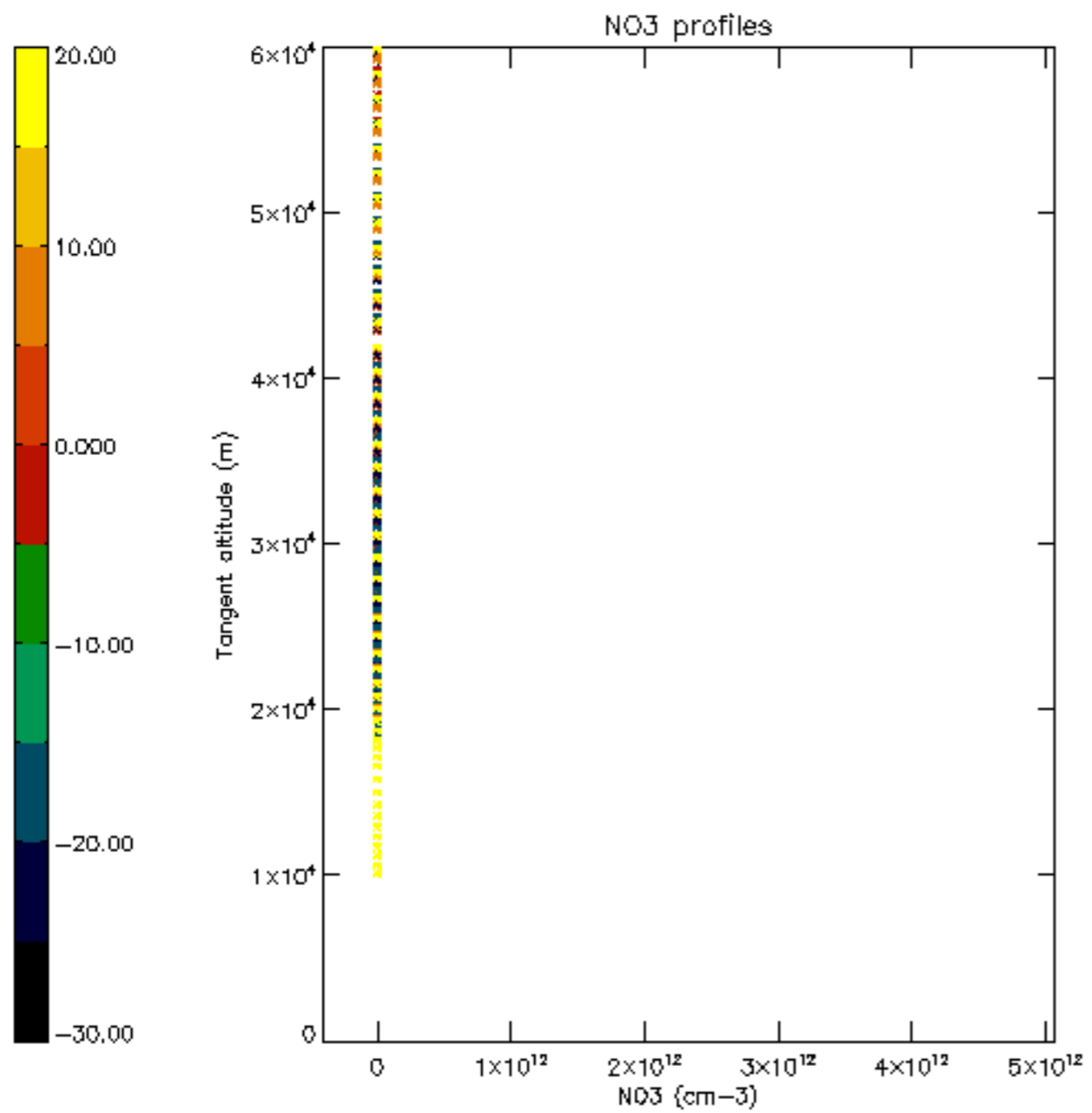


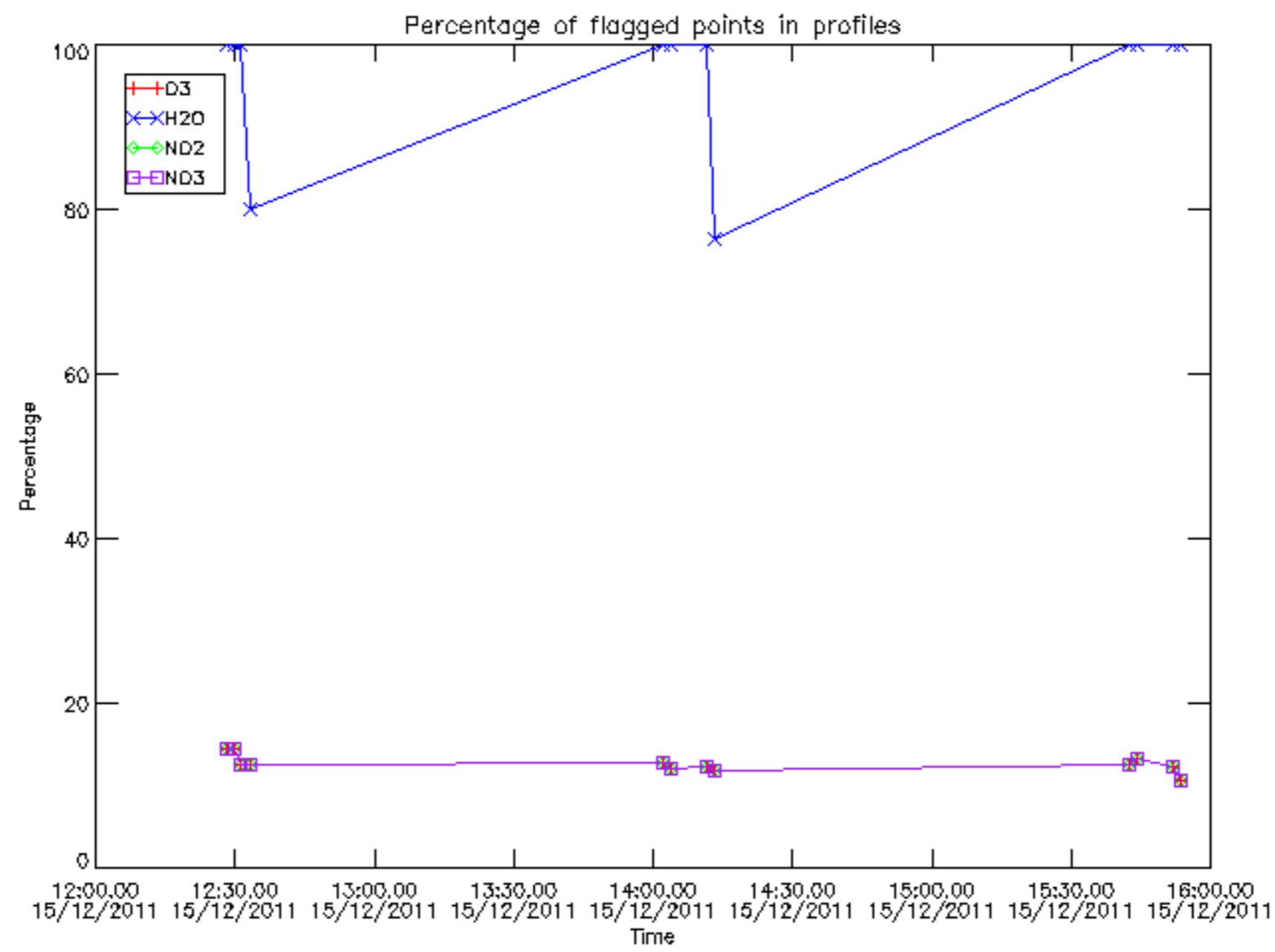




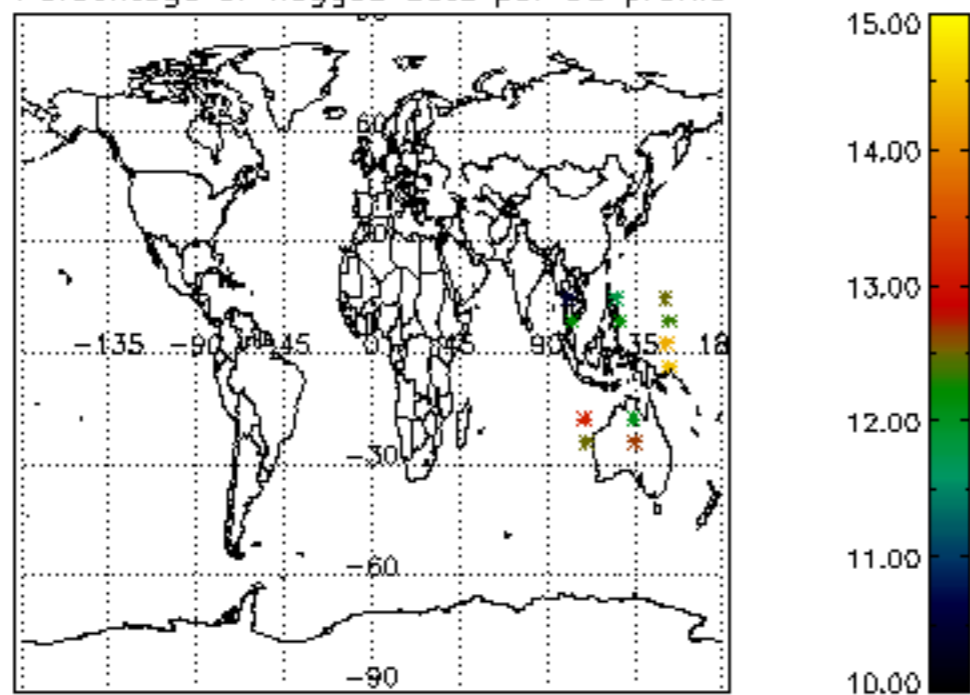




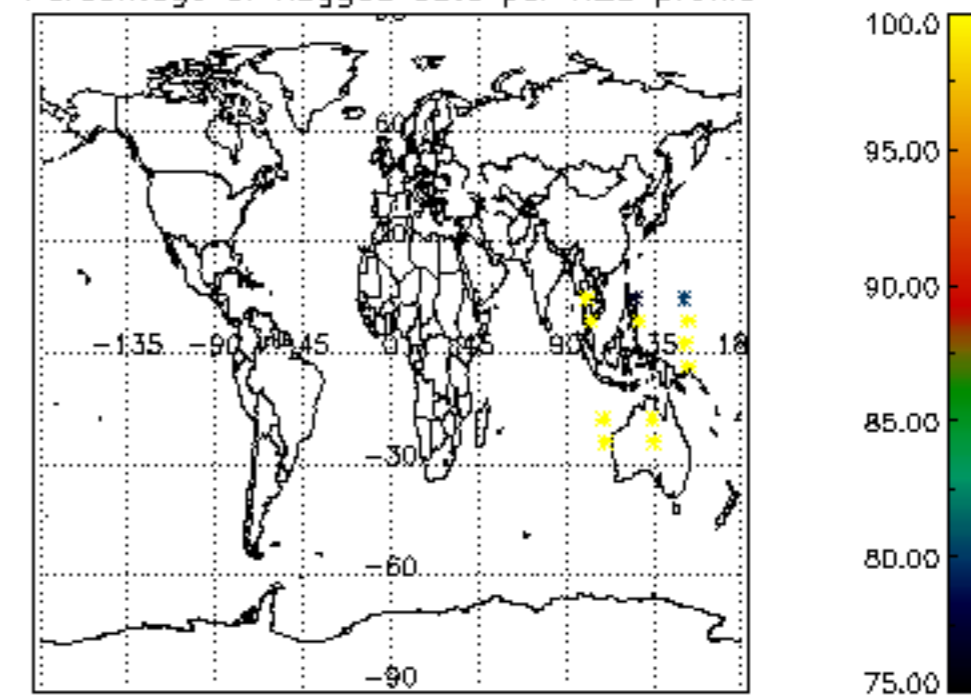




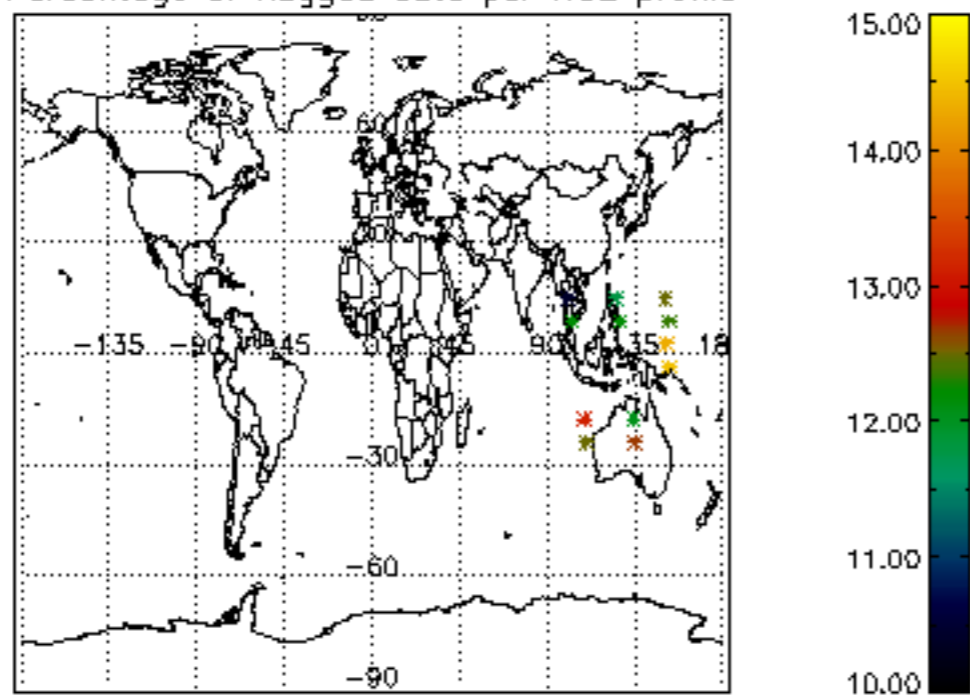
Percentage of flagged data per D3 profile



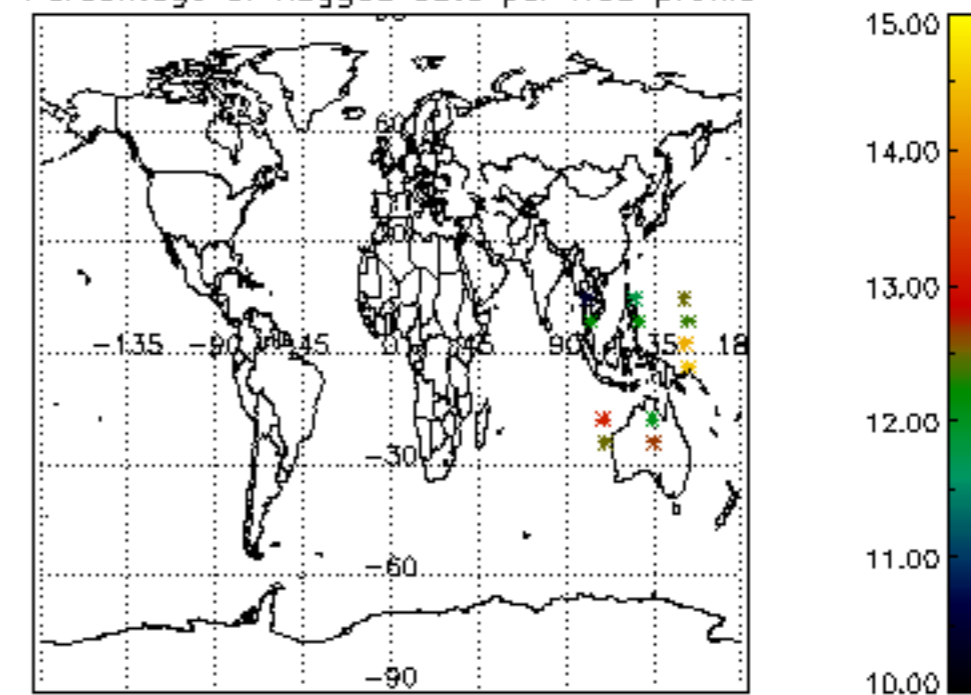
Percentage of flagged data per H2O profile

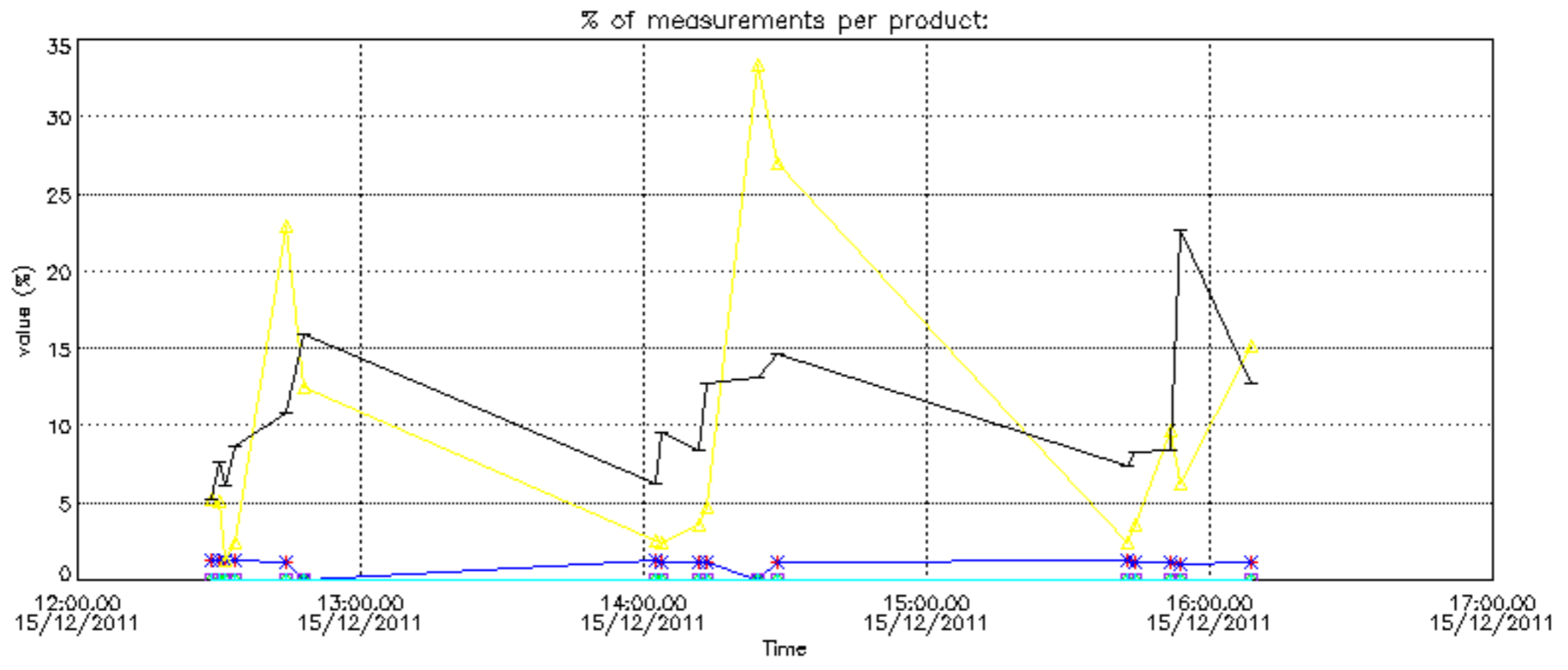


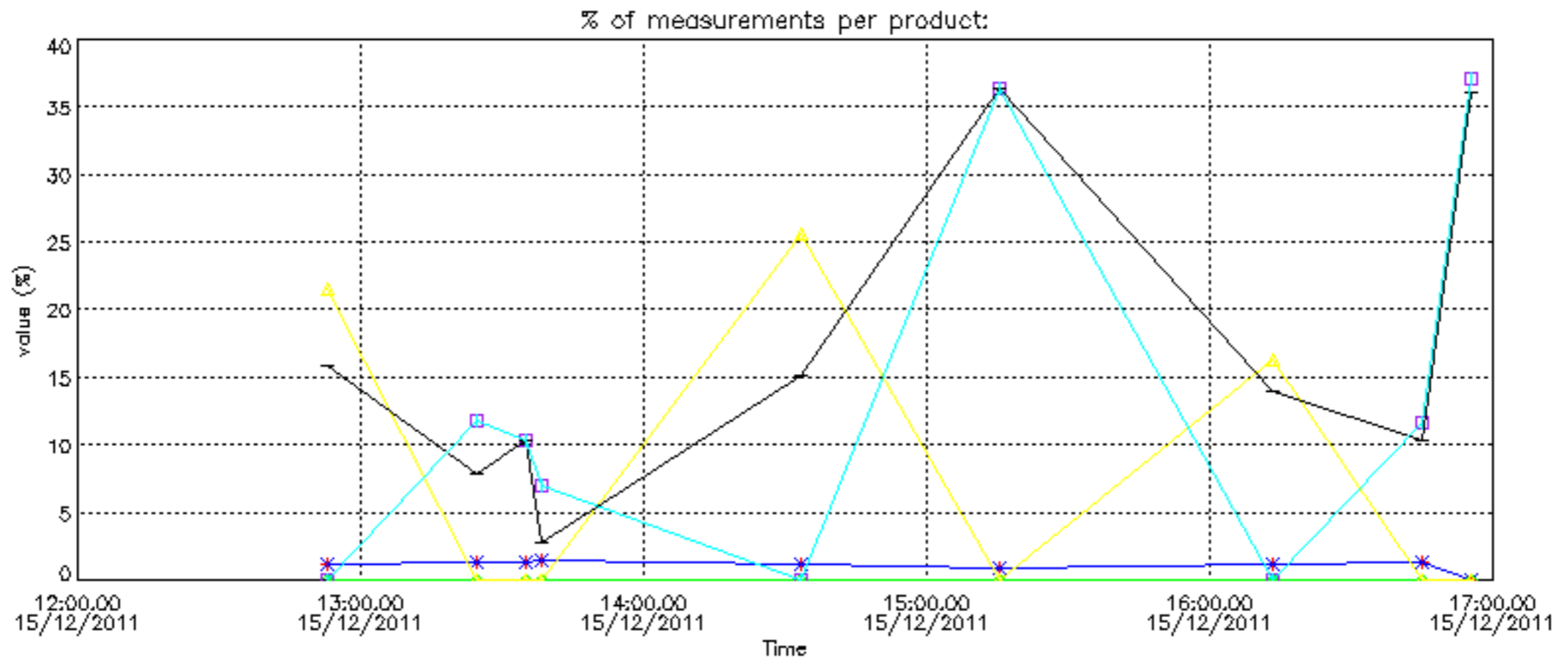
Percentage of flagged data per NO2 profile



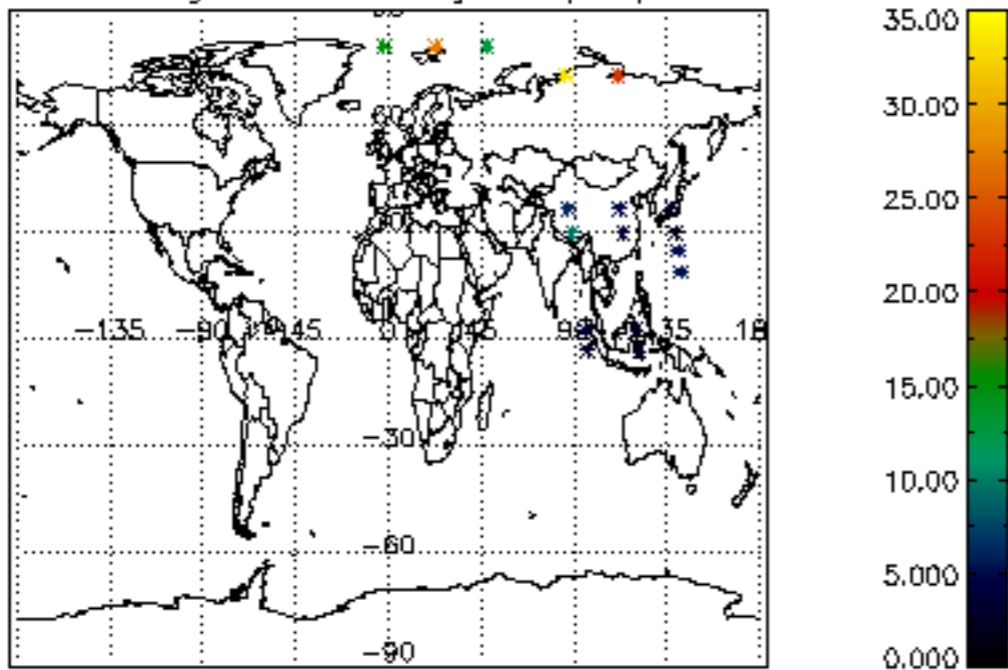
Percentage of flagged data per NO3 profile



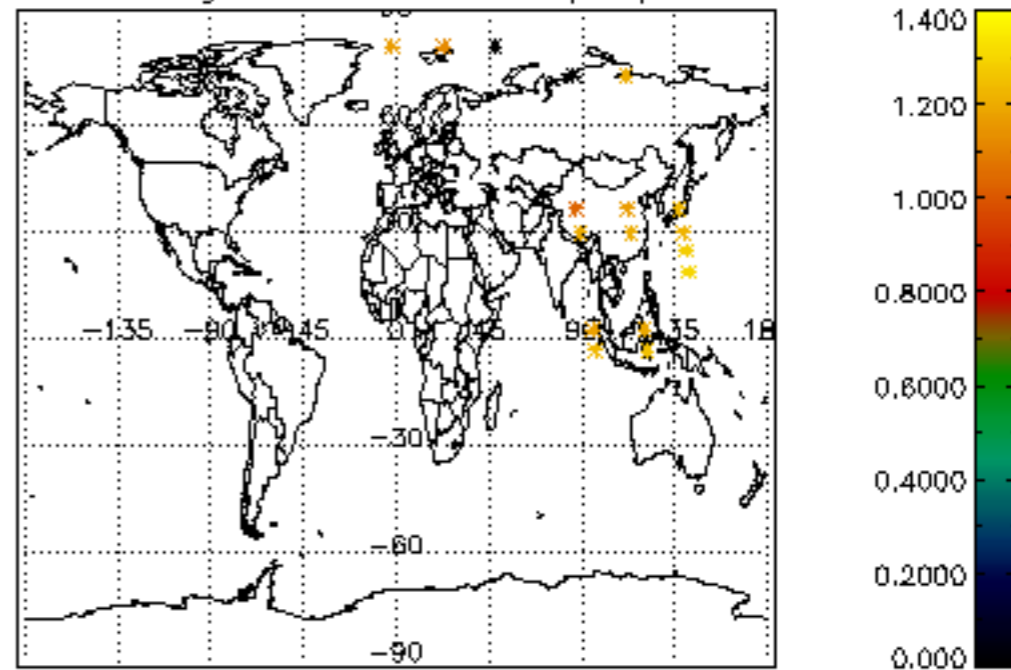




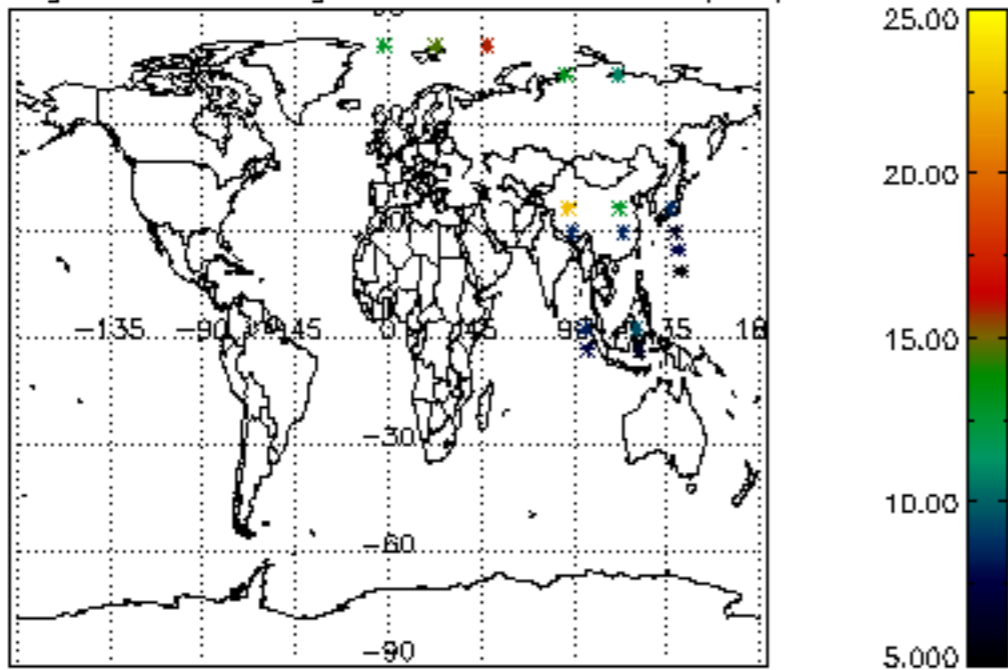
Percentage of cosmic ray hits per profile



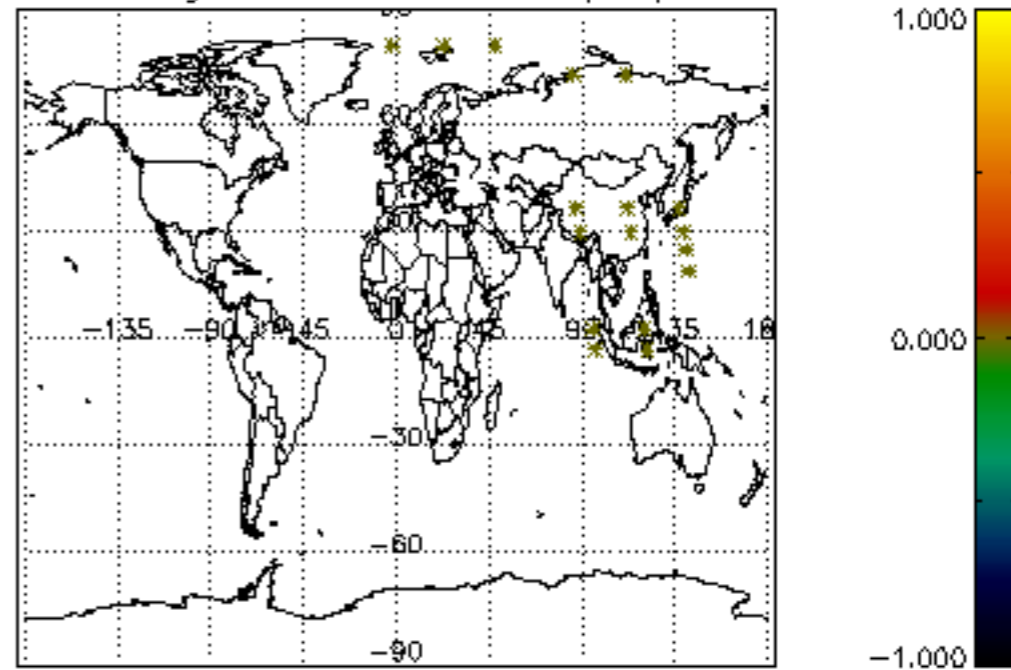
Percentage of datation errors per profile



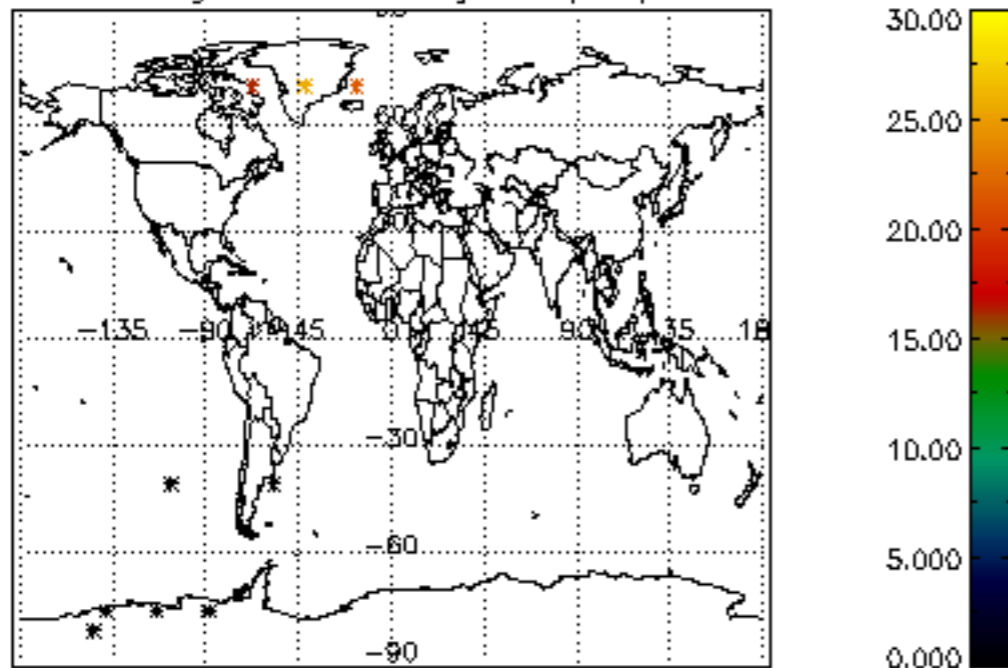
Percentage of star falling outside central band per profile



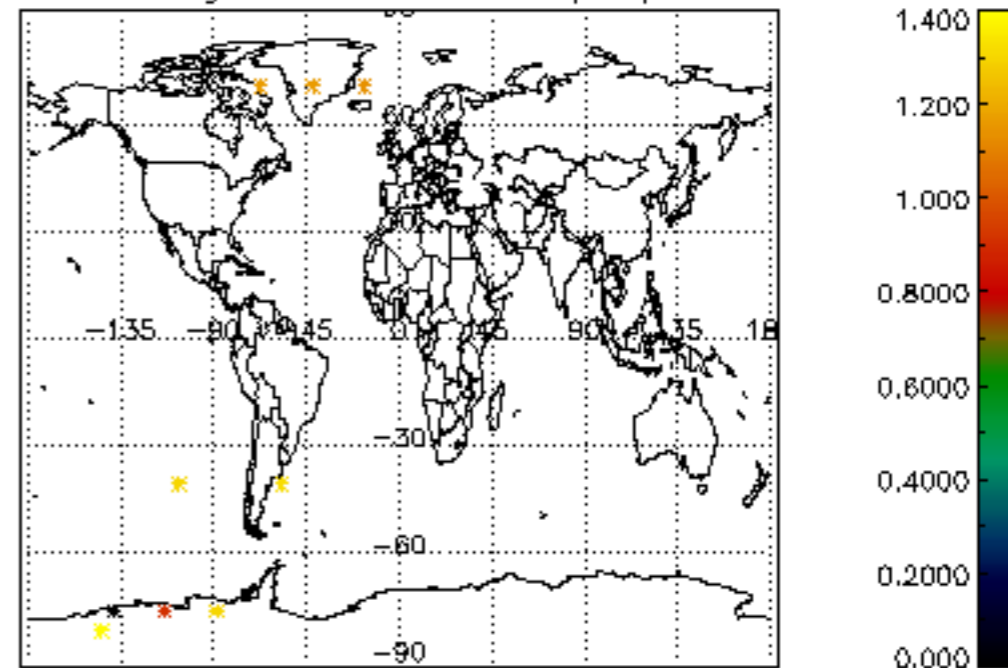
Percentage of saturation errors per profile



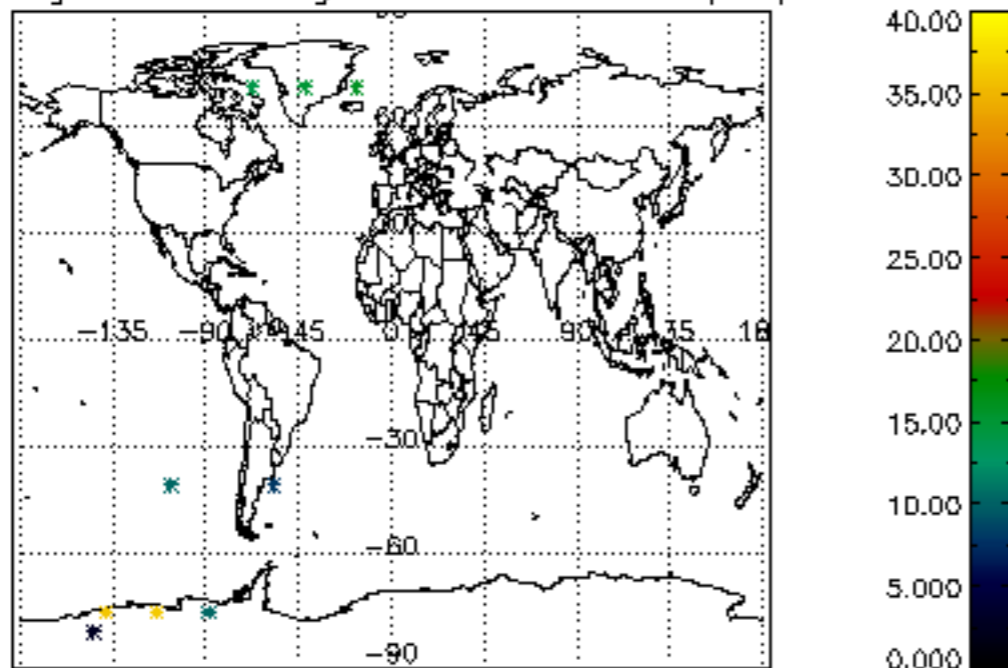
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

