

# 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	24APR2013 17:34:55
Data source version	GOMOS/6.01
Start time of products	04-09-2011 (04SEP2011 00:00:00)
Stop time of products	05-09-2011 (05SEP2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	22
Nb of prods with errors	0

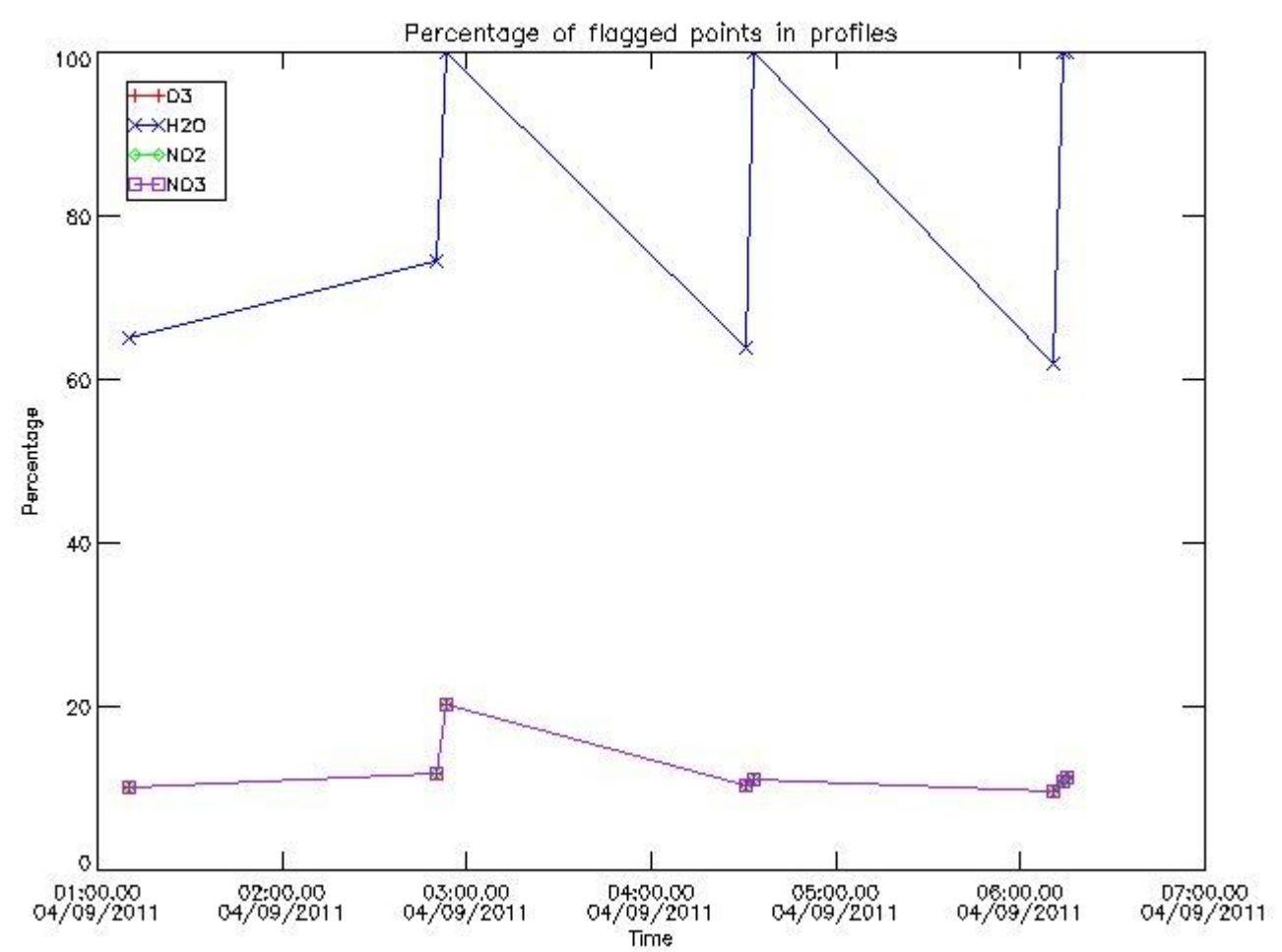
## 2. Summary of processed GOM\_NL\_\_2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110904_000241_000000483106_00160_49743_0302.N1	04-SEP-2011 00:02:41	Straylight	47.500	18	24Alp PsA	1.1660	9700.0	95	49743	No
2	GOM_NL__2PRFIN20110904_003157_000000413106_00160_49743_0303.N1	04-SEP-2011 00:31:57	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	49743	No
3	GOM_NL__2PRFIN20110904_010216_000000443106_00160_49743_0304.N1	04-SEP-2011 01:02:16	Twilight	43.500	8	10Alp CMi	0.40000	6500.0	87	49743	No
4	GOM_NL__2PRFIN20110904_011013_000000513106_00160_49743_0305.N1	04-SEP-2011 01:10:13	Dark	50.500	1	9Alp CMa	-1.4400	11000.	101	49743	No
5	GOM_NL__2PRFIN20110904_013706_000000493106_00161_49744_0309.N1	04-SEP-2011 01:37:06	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	49744	No
6	GOM_NL__2PRFIN20110904_014255_000000463106_00161_49744_0310.N1	04-SEP-2011 01:42:55	Straylight	45.500	18	24Alp PsA	1.1660	9700.0	91	49744	No
7	GOM_NL__2PRFIN20110904_015204_000000403106_00161_49744_0311.N1	04-SEP-2011 01:52:04	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	49744	No
8	GOM_NL__2PRFIN20110904_021211_000000413106_00161_49744_0312.N1	04-SEP-2011 02:12:11	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	49744	No
9	GOM_NL__2PRFIN20110904_024032_000000533106_00161_49744_0313.N1	04-SEP-2011 02:40:32	Twilight	52.500	44	24Gam Gem	1.9280	11000.	105	49744	No
10	GOM_NL__2PRFIN20110904_024231_000000463106_00161_49744_0314.N1	04-SEP-2011 02:42:31	Twilight	46.000	8	10Alp CMi	0.40000	6500.0	92	49744	No
11	GOM_NL__2PRFIN20110904_025027_000000563106_00161_49744_0315.N1	04-SEP-2011 02:50:27	Dark	55.500	1	9Alp CMa	-1.4400	11000.	111	49744	No
12	GOM_NL__2PRFIN20110904_025306_000000483106_00161_49744_0316.N1	04-SEP-2011 02:53:06	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	49744	No
13	GOM_NL__2PRFIN20110904_031720_000000463106_00162_49745_0326.N1	04-SEP-2011 03:17:20	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	49745	No
14	GOM_NL__2PRFIN20110904_035224_000000443106_00162_49745_0327.N1	04-SEP-2011 03:52:24	Bright	44.000	74	11Bet Cas	2.2680	6600.0	88	49745	No
15	GOM_NL__2PRFIN20110904_043042_000000493106_00162_49745_0328.N1	04-SEP-2011 04:30:42	Dark	49.000	1	9Alp CMa	-1.4400	11000.	98	49745	No
16	GOM_NL__2PRFIN20110904_043321_000000463106_00162_49745_0329.N1	04-SEP-2011 04:33:21	Dark	45.500	23	21Eps CMa	1.5020	26000.	91	49745	No
17	GOM_NL__2PRFIN20110904_045735_000000473106_00163_49746_0337.N1	04-SEP-2011 04:57:35	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	49746	No
18	GOM_NL__2PRFIN20110904_053238_000000443106_00163_49746_0338.N1	04-SEP-2011 05:32:38	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	49746	No
19	GOM_NL__2PRFIN20110904_060300_000000563106_00163_49746_0339.N1	04-SEP-2011 06:03:00	Twilight	56.000	8	10Alp CMi	0.40000	6500.0	112	49746	No
20	GOM_NL__2PRFIN20110904_061057_000000533106_00163_49746_0340.N1	04-SEP-2011 06:10:57	Dark	53.000	1	9Alp CMa	-1.4400	11000.	106	49746	No
21	GOM_NL__2PRFIN20110904_061335_000000473106_00163_49746_0341.N1	04-SEP-2011 06:13:35	Dark	46.500	23	21Eps CMa	1.5020	26000.	93	49746	No
22	GOM_NL__2PRFIN20110904_061528_000000453106_00163_49746_0342.N1	04-SEP-2011 06:15:28	Dark	44.500	177	1Zet CMa	3.0220	26000.	89	49746	No

## 3. Quality information per product

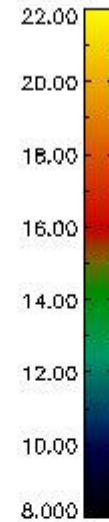
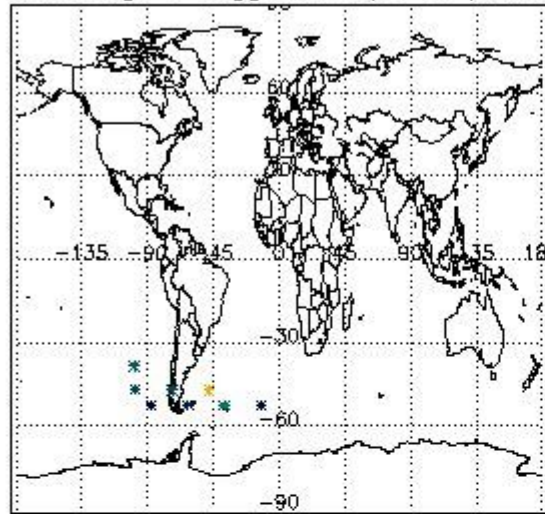
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

### 3.1 Plot quality information per product (time dependant)

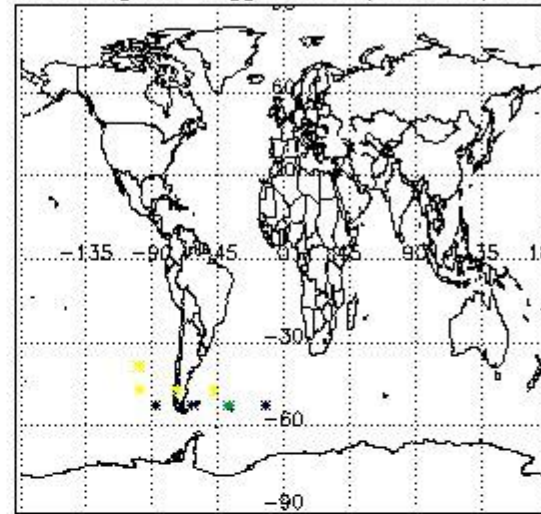


3.2 Plot quality information per product (world map)

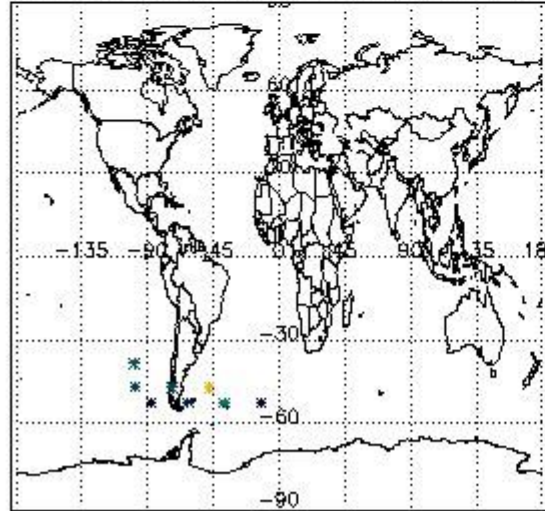
Percentage of flagged data per O3 profile



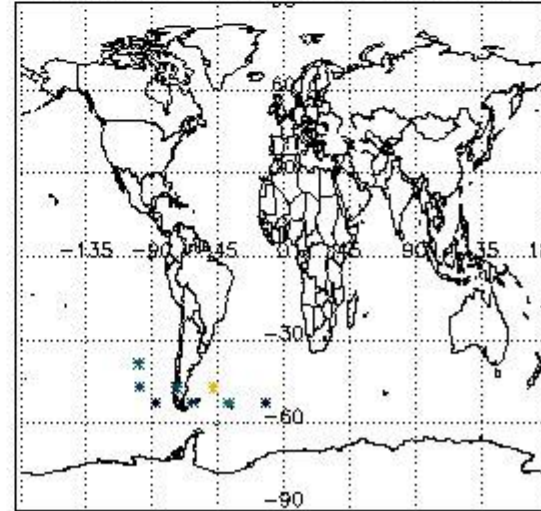
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

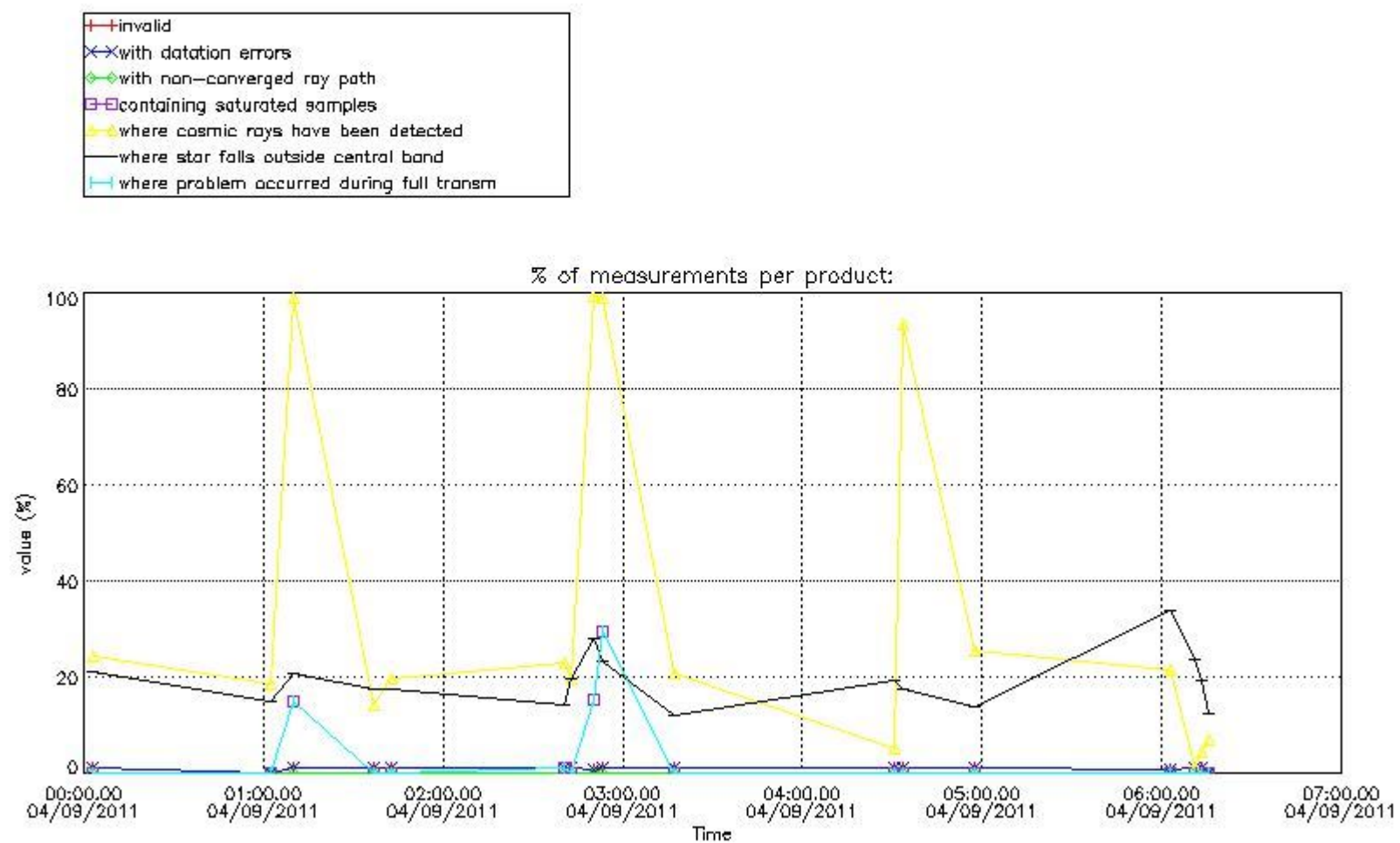


#### 4. Level 1 quality information per product

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.

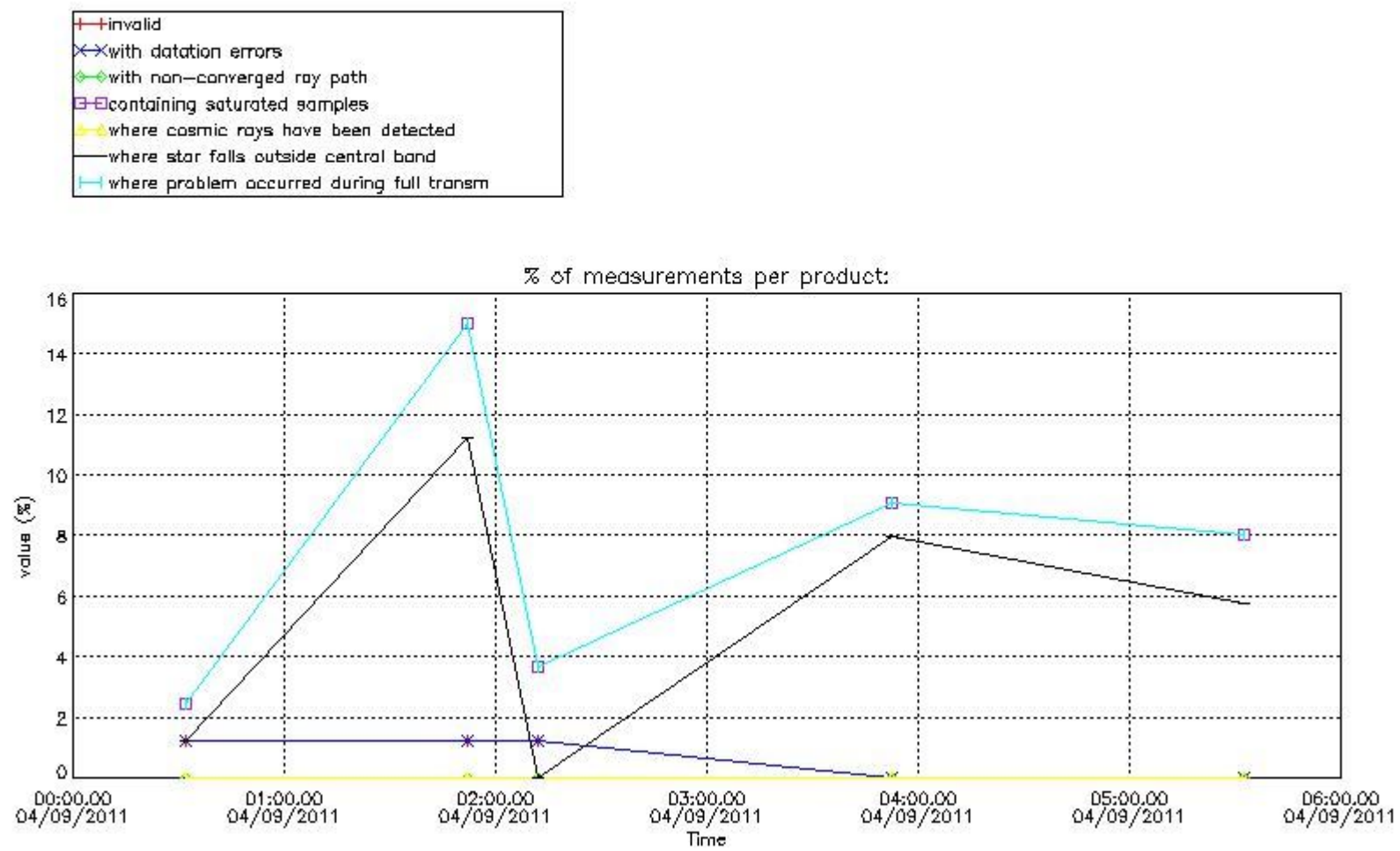
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

##### 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

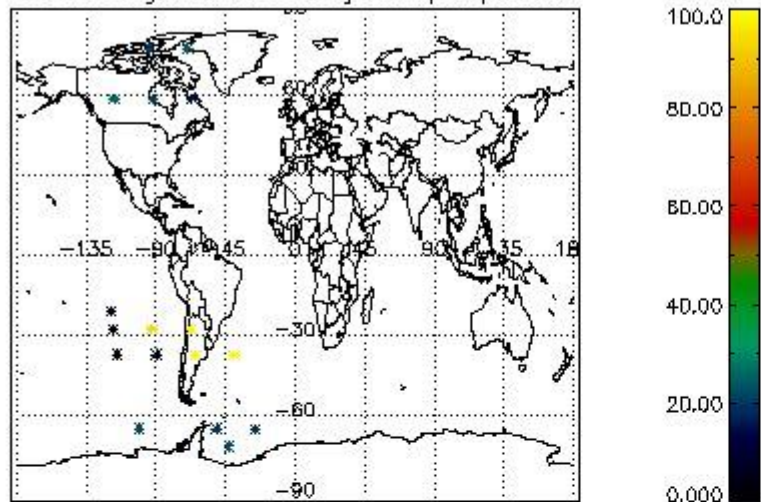




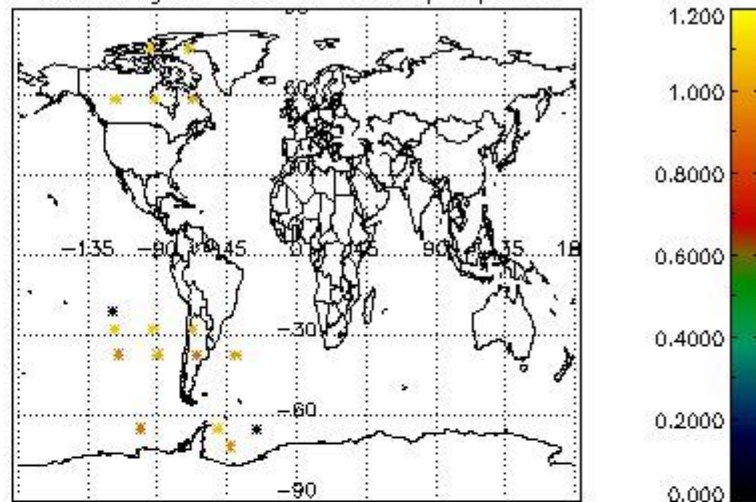
4.2 Plot quality information per product coming from level 1b processing (world map)

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

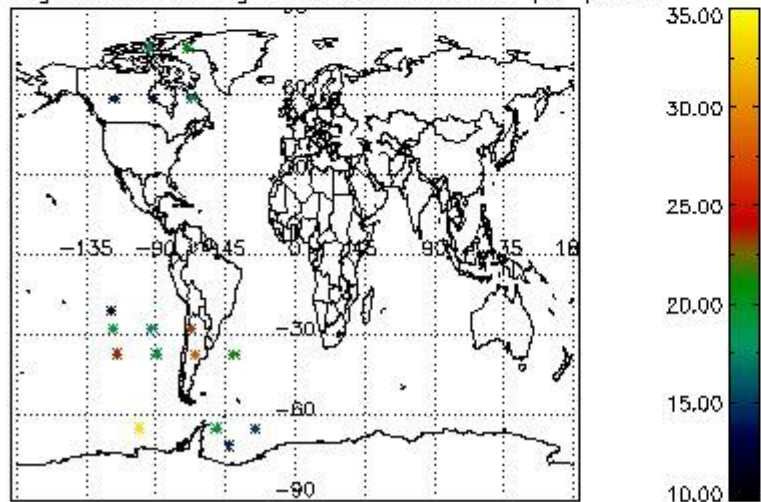
Percentage of cosmic ray hits per profile



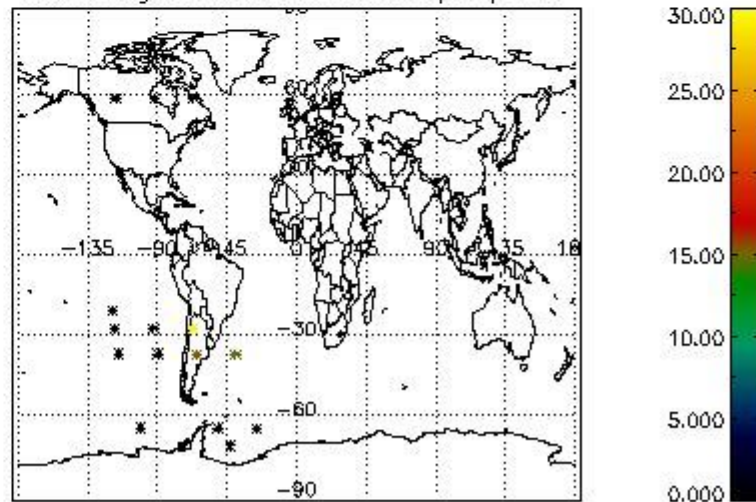
Percentage of datation errors per profile



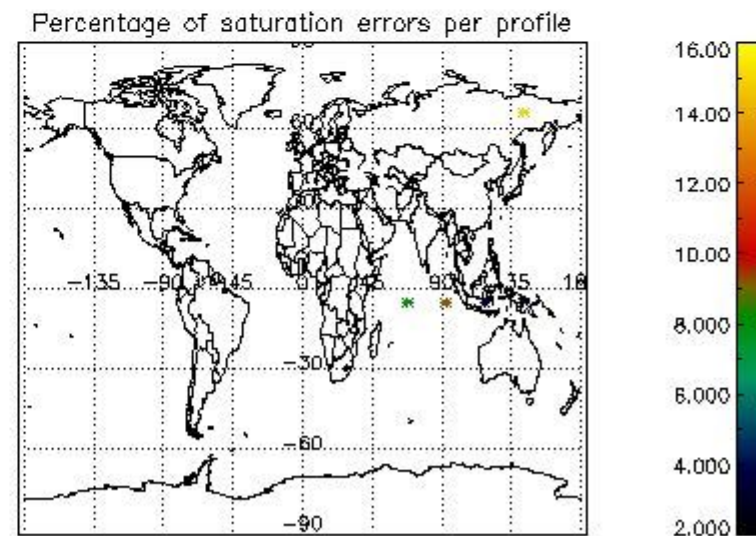
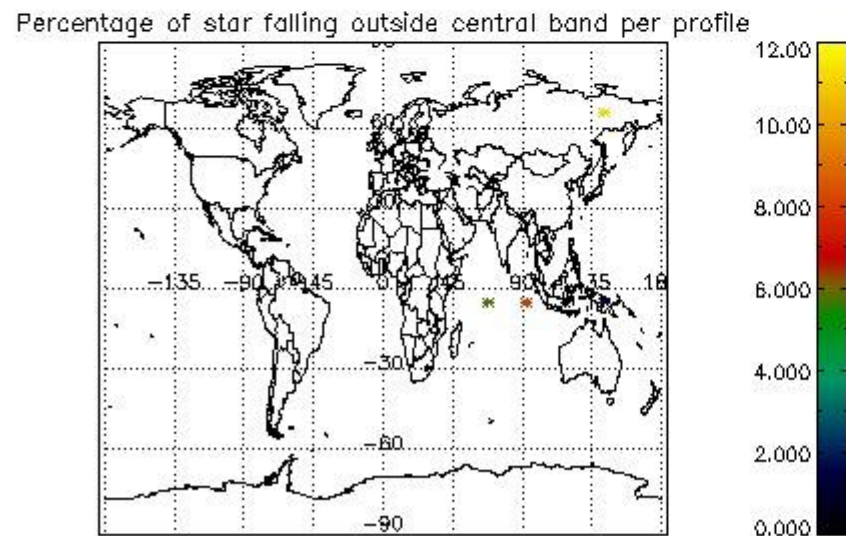
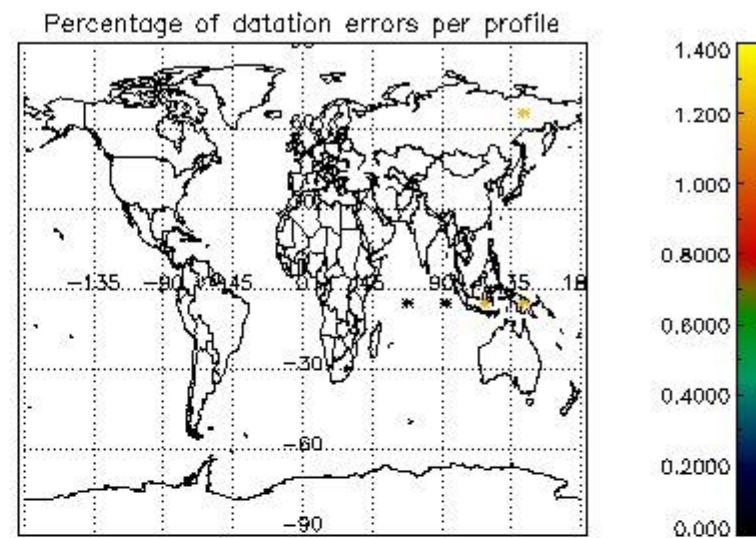
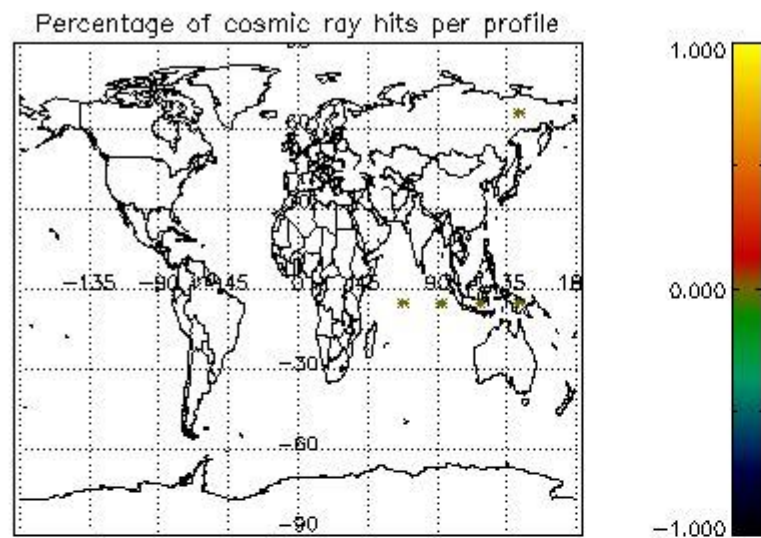
Percentage of star falling outside central band per profile



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.

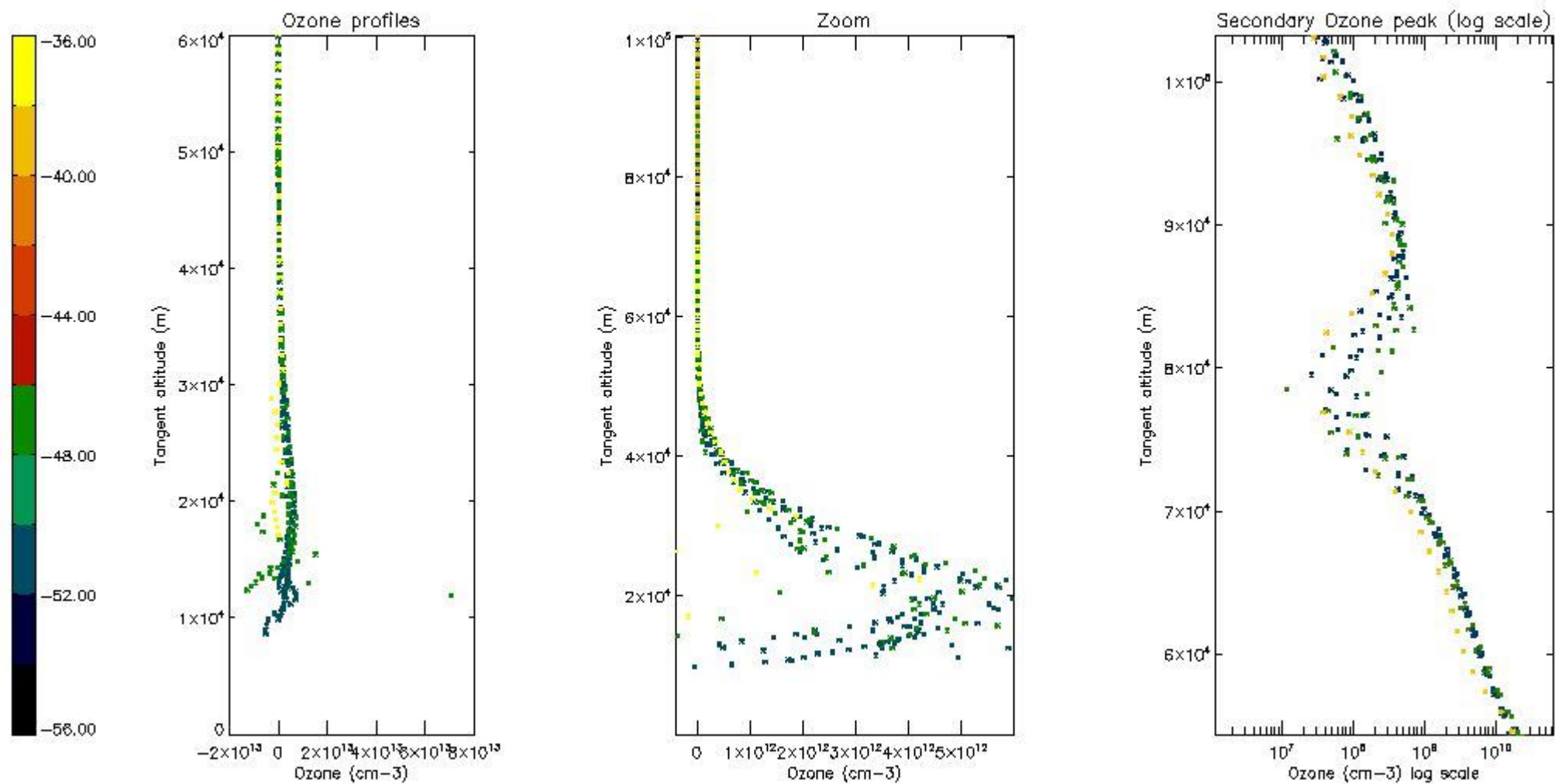
Criteria	% of total production
All STD	38
STD < 20	27



STD < 10	24
STD < 5	20

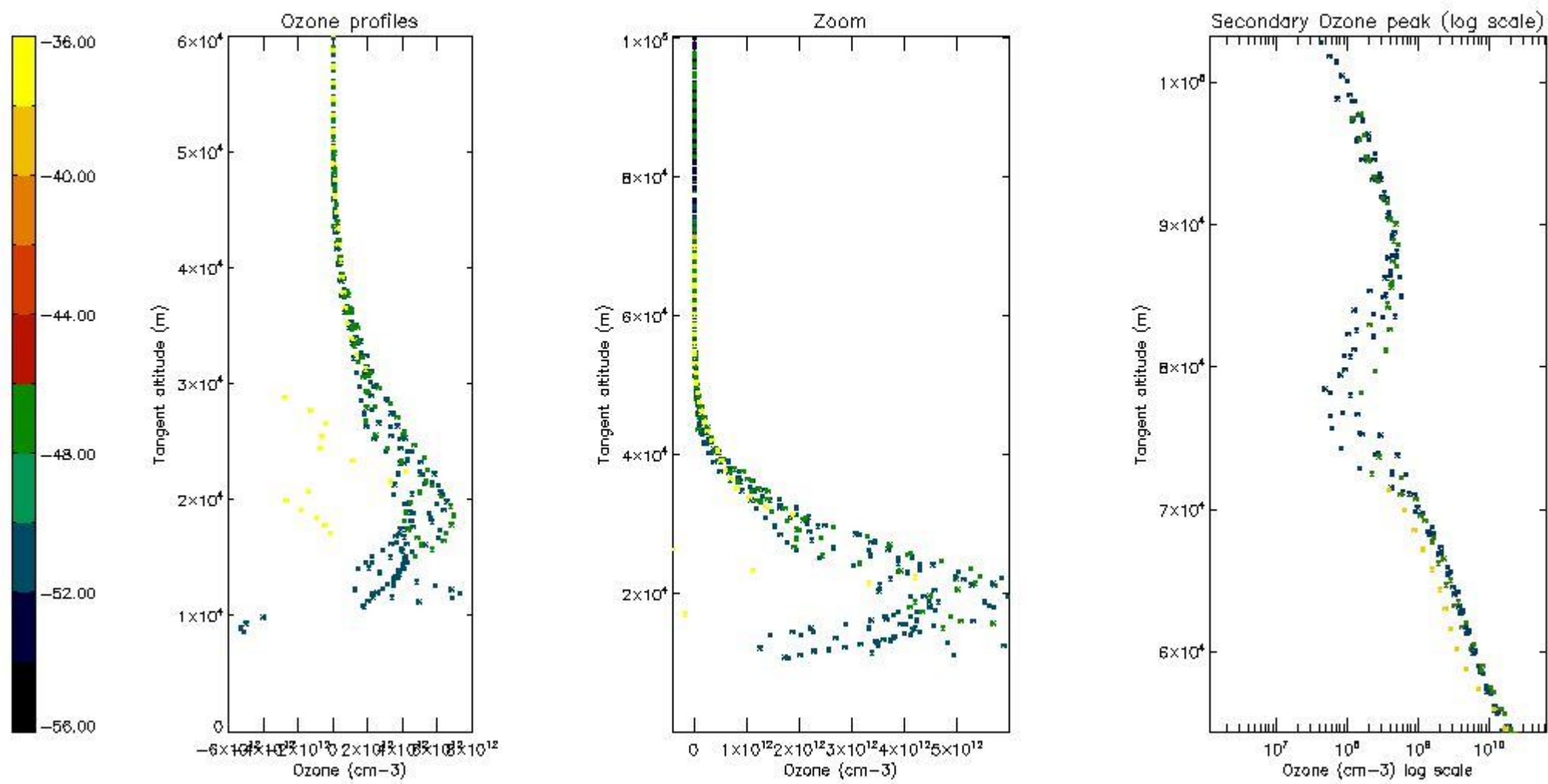
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



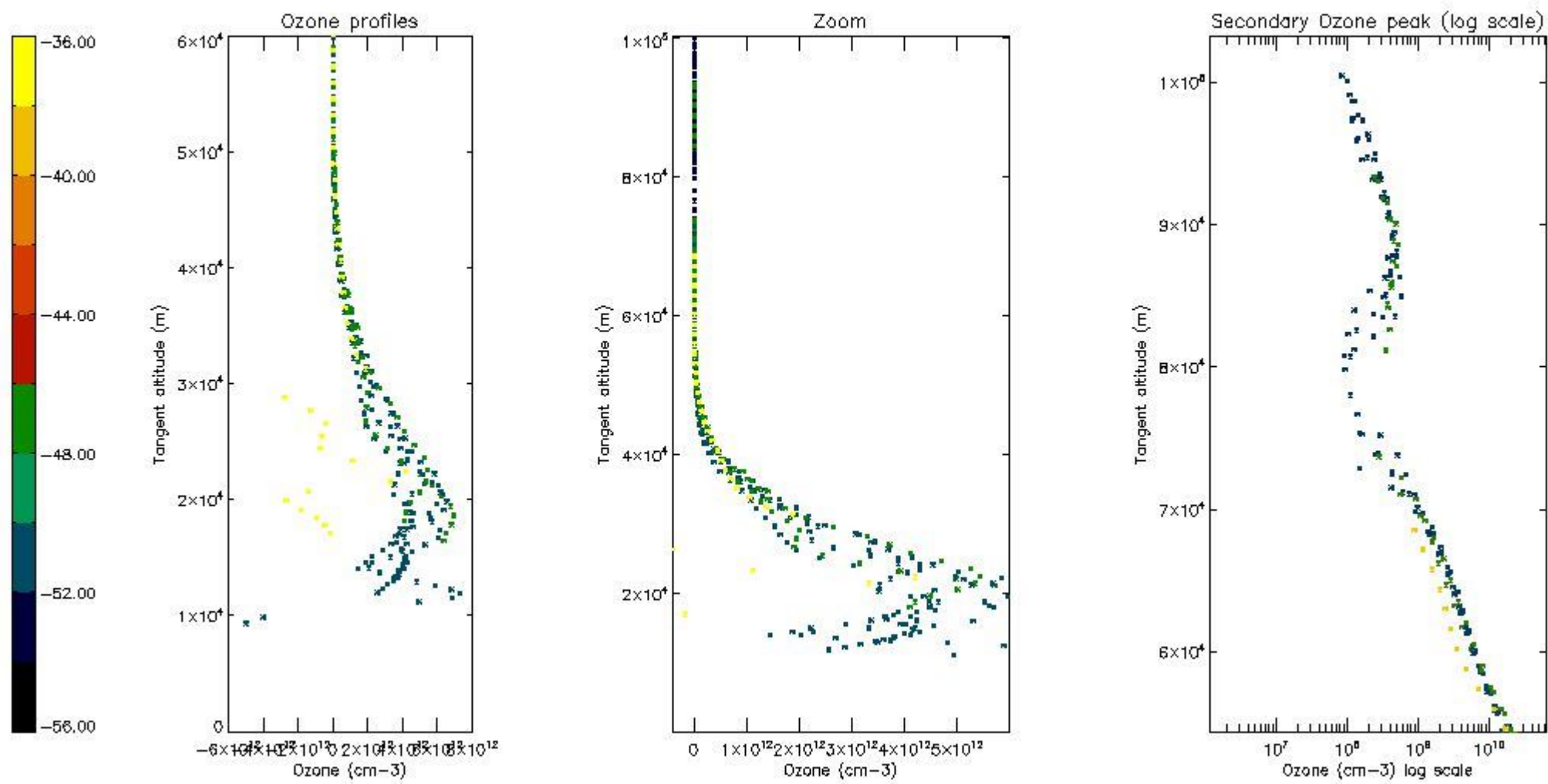
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



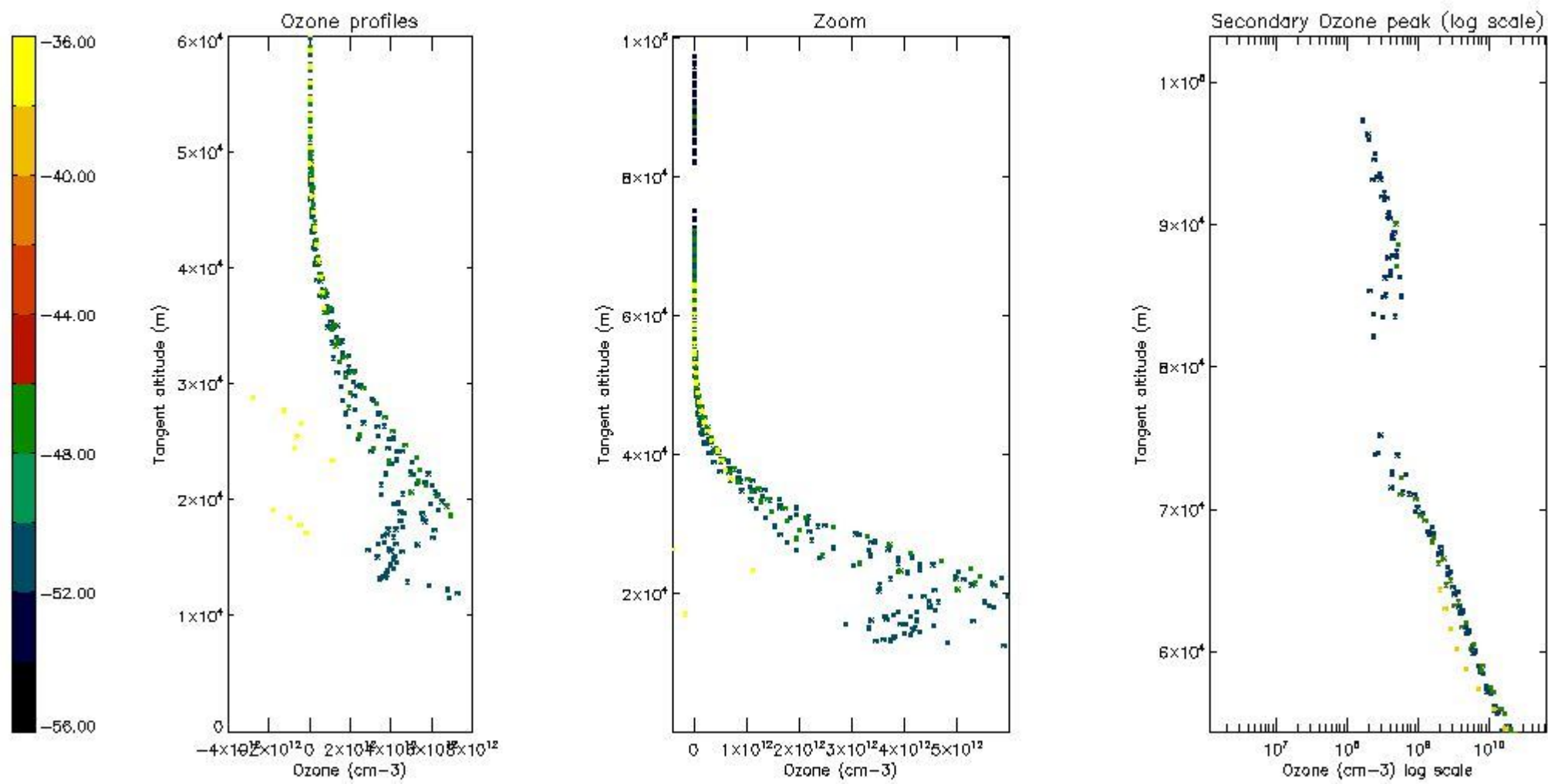
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



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

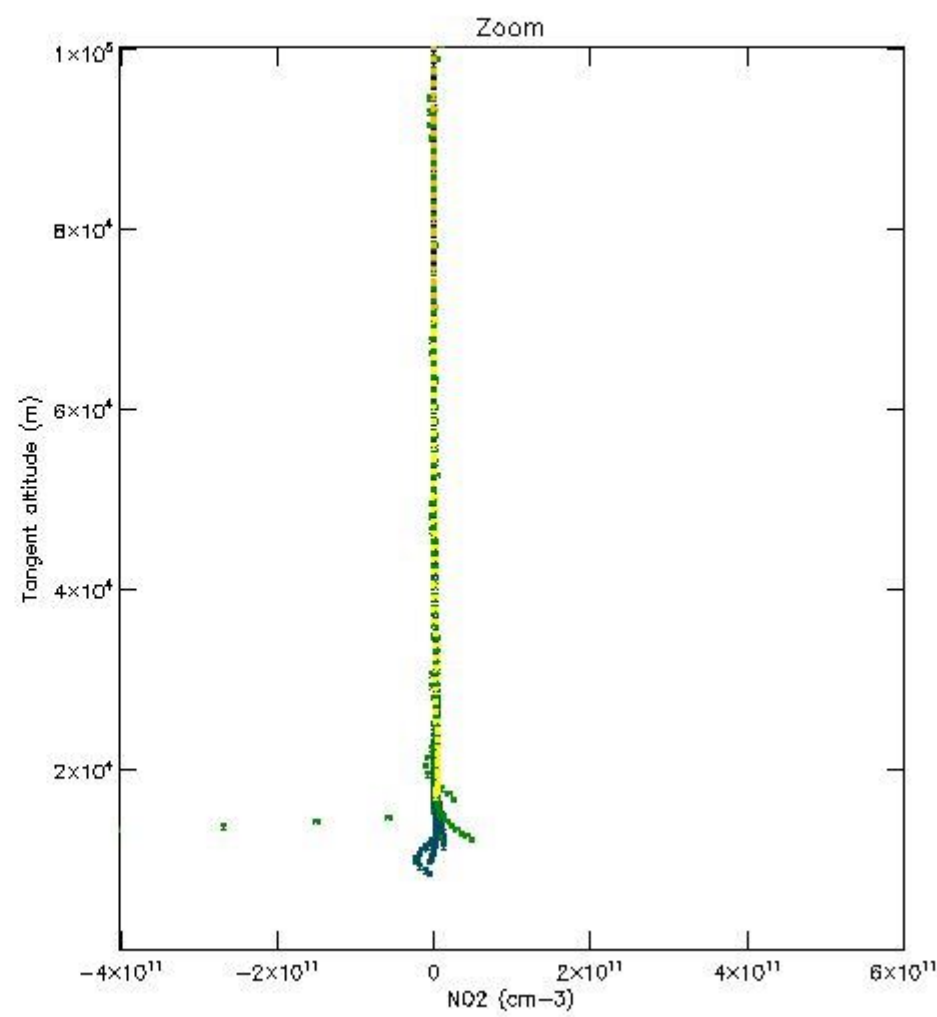
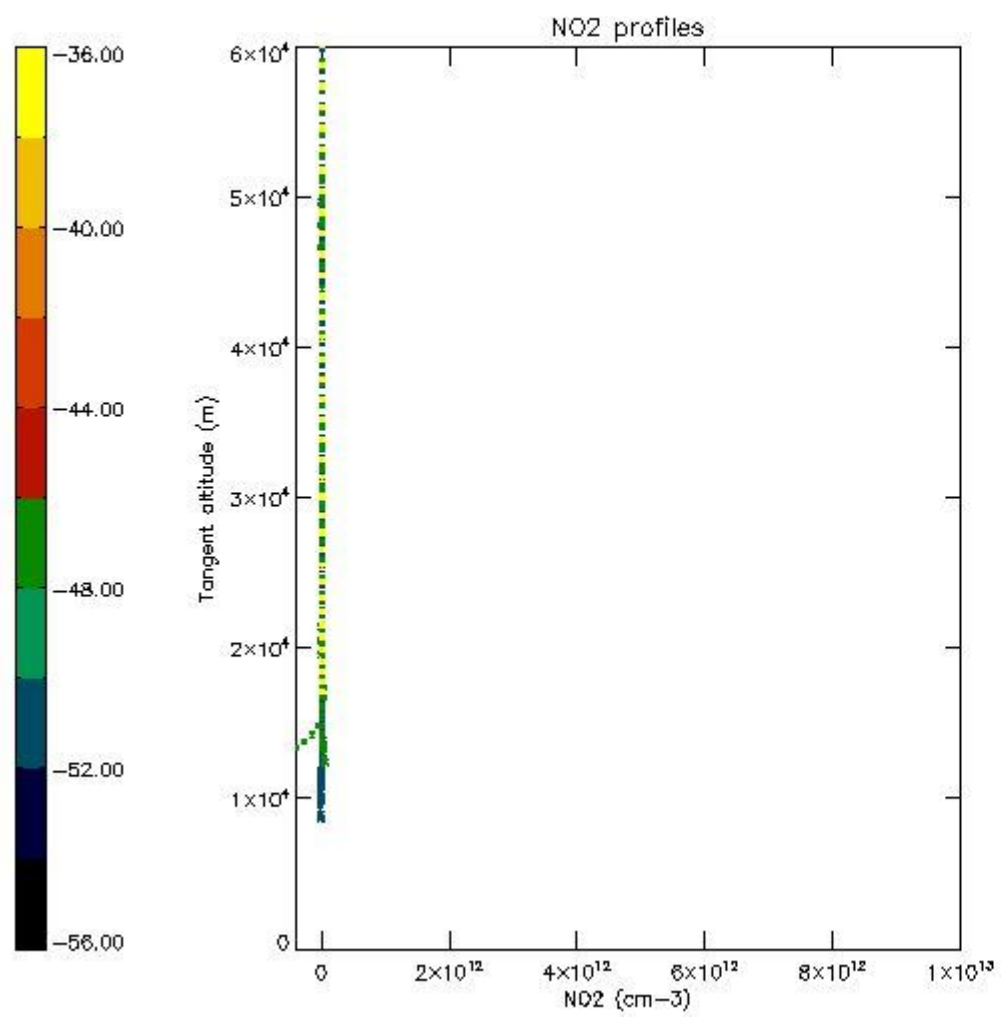
The colorbar represents the latitude.



*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

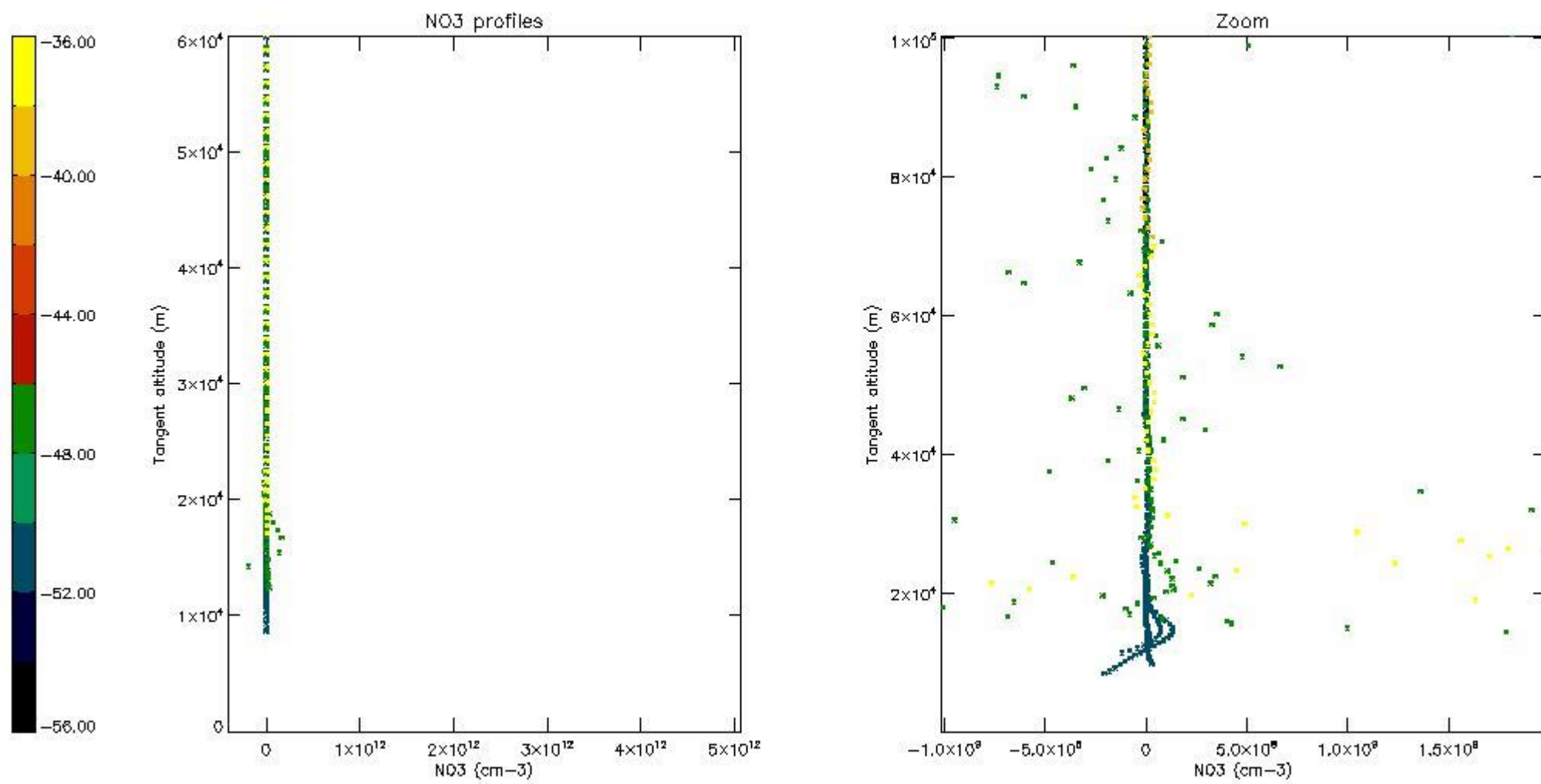
The colorbar represents the latitude.





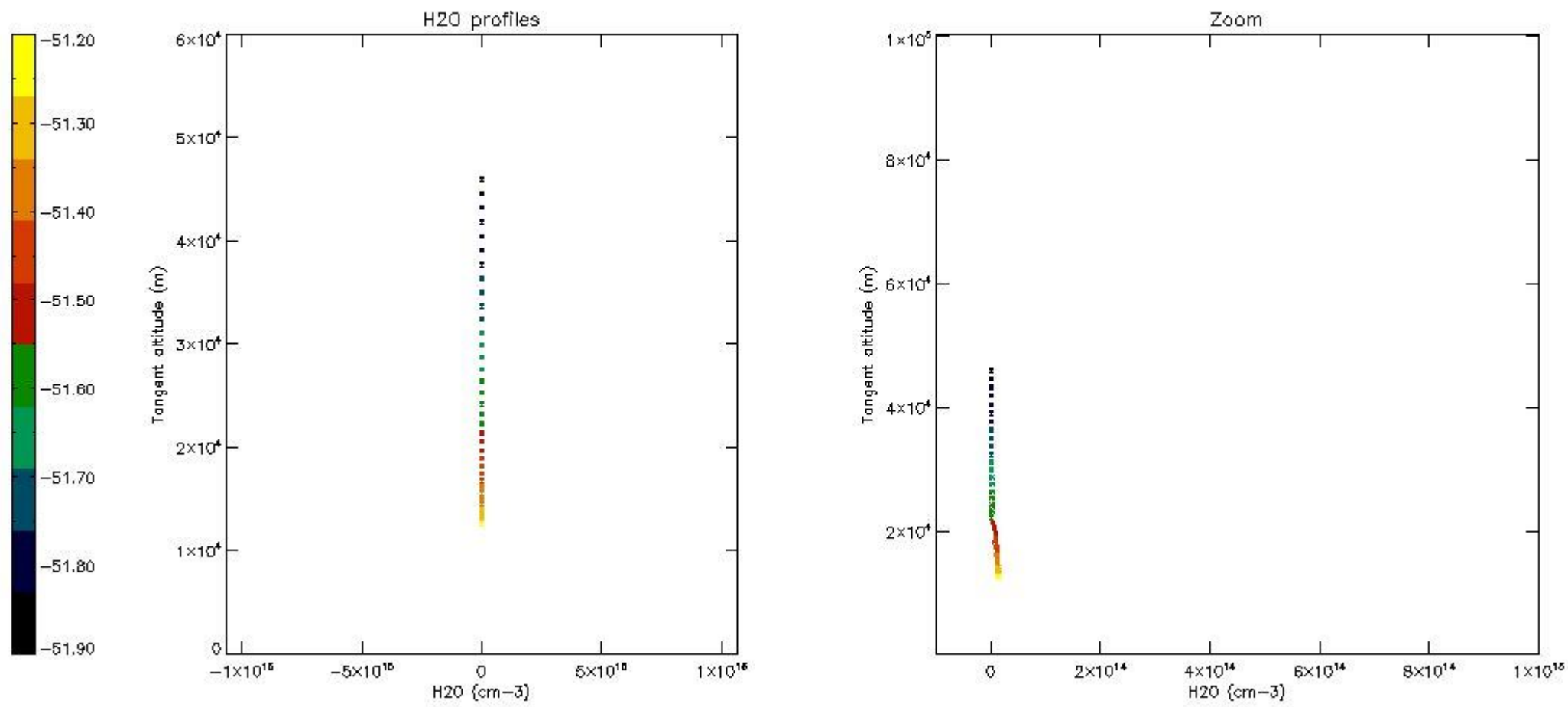
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot H<sub>2</sub>O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	04-SEP-2011 00:02:41
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-SEP-2011 00:02:41
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-SEP-2011 00:02:41

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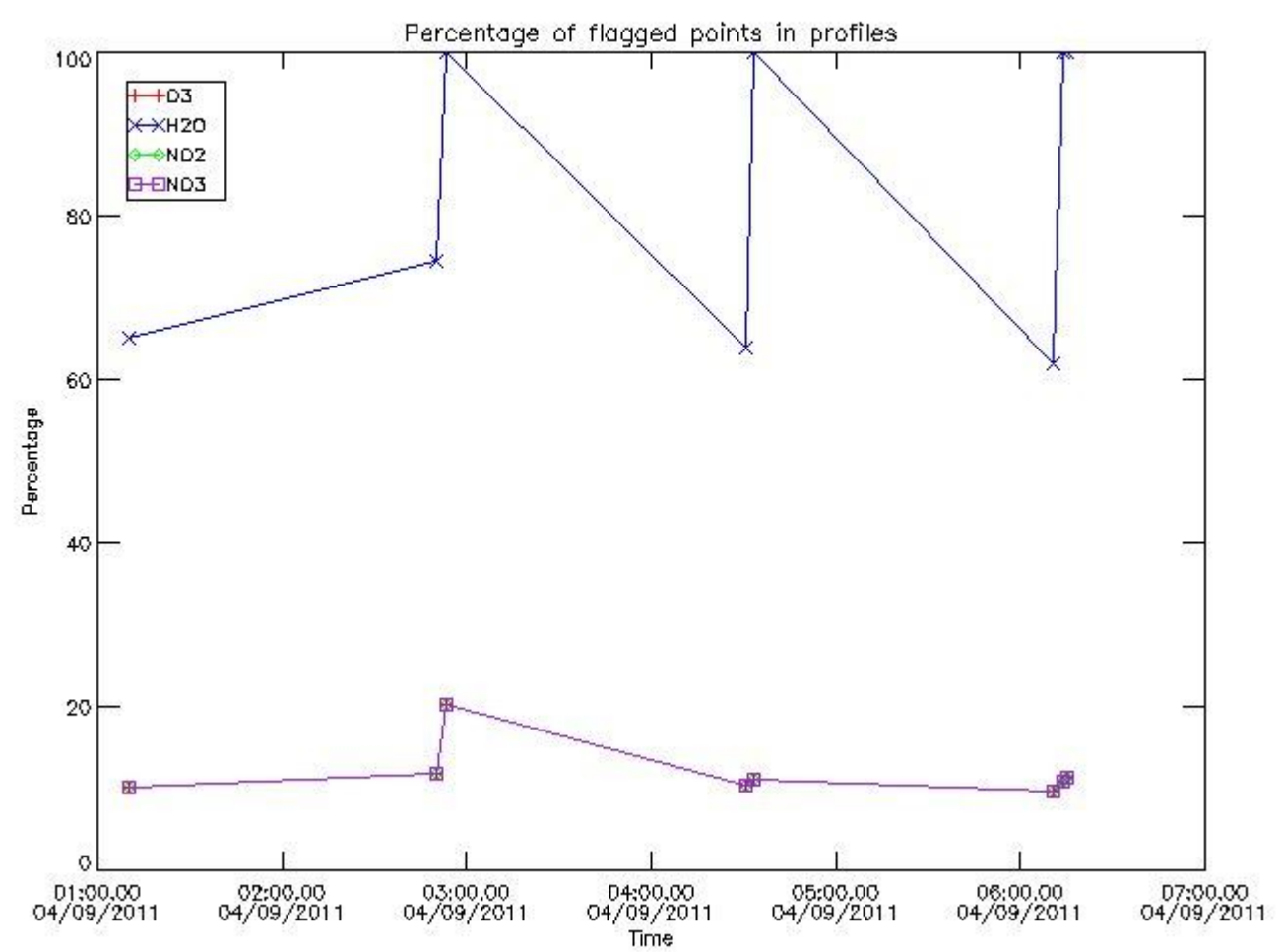
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19	GOM_NL__2PRFIN20110904_060300_000000563106_00163_49746_0339.N1	04-SEP-2011 06:03:00	Twilight	56.000	8	10Alp CMi	0.40000	6500.0	112	49746	No
20	GOM_NL__2PRFIN20110904_061057_000000533106_00163_49746_0340.N1	04-SEP-2011 06:10:57	Dark	53.000	1	9Alp CMa	-1.4400	11000.	106	49746	No
21	GOM_NL__2PRFIN20110904_061335_000000473106_00163_49746_0341.N1	04-SEP-2011 06:13:35	Dark	46.500	23	21Eps CMa	1.5020	26000.	93	49746	No
22	GOM_NL__2PRFIN20110904_061528_000000453106_00163_49746_0342.N1	04-SEP-2011 06:15:28	Dark	44.500	177	1Zet CMa	3.0220	26000.	89	49746	No

## 3. Quality information per product

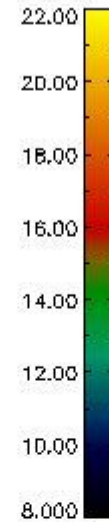
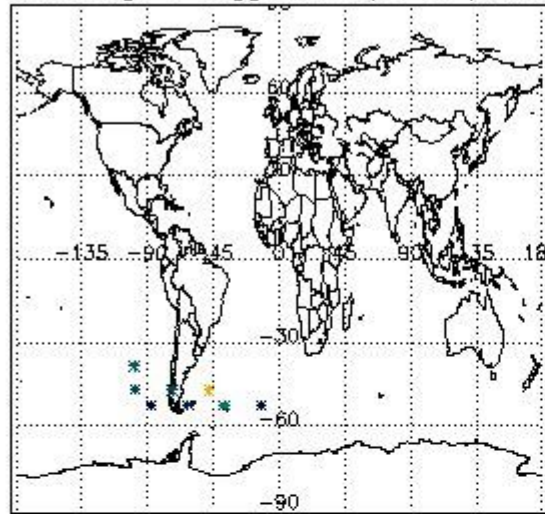
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

### 3.1 Plot quality information per product (time dependant)

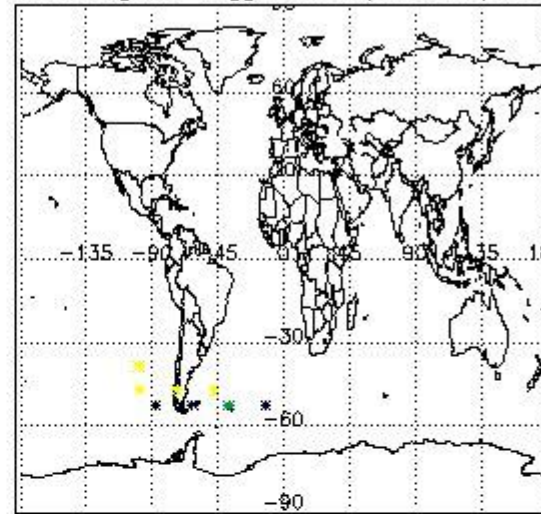


3.2 Plot quality information per product (world map)

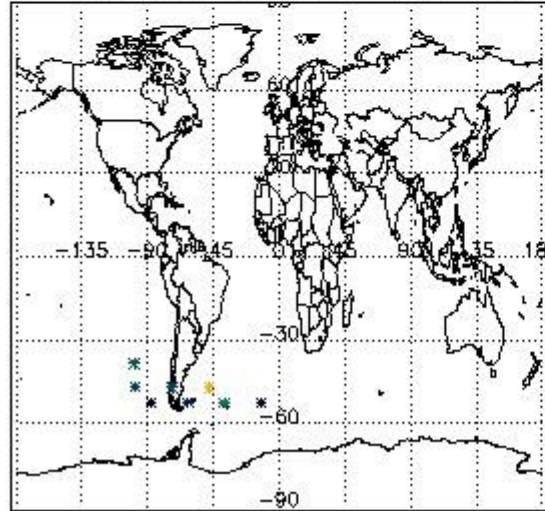
Percentage of flagged data per O3 profile



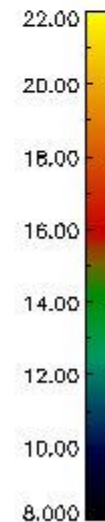
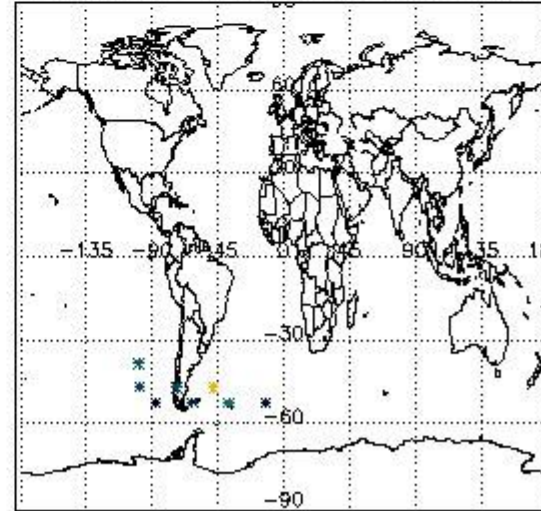
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

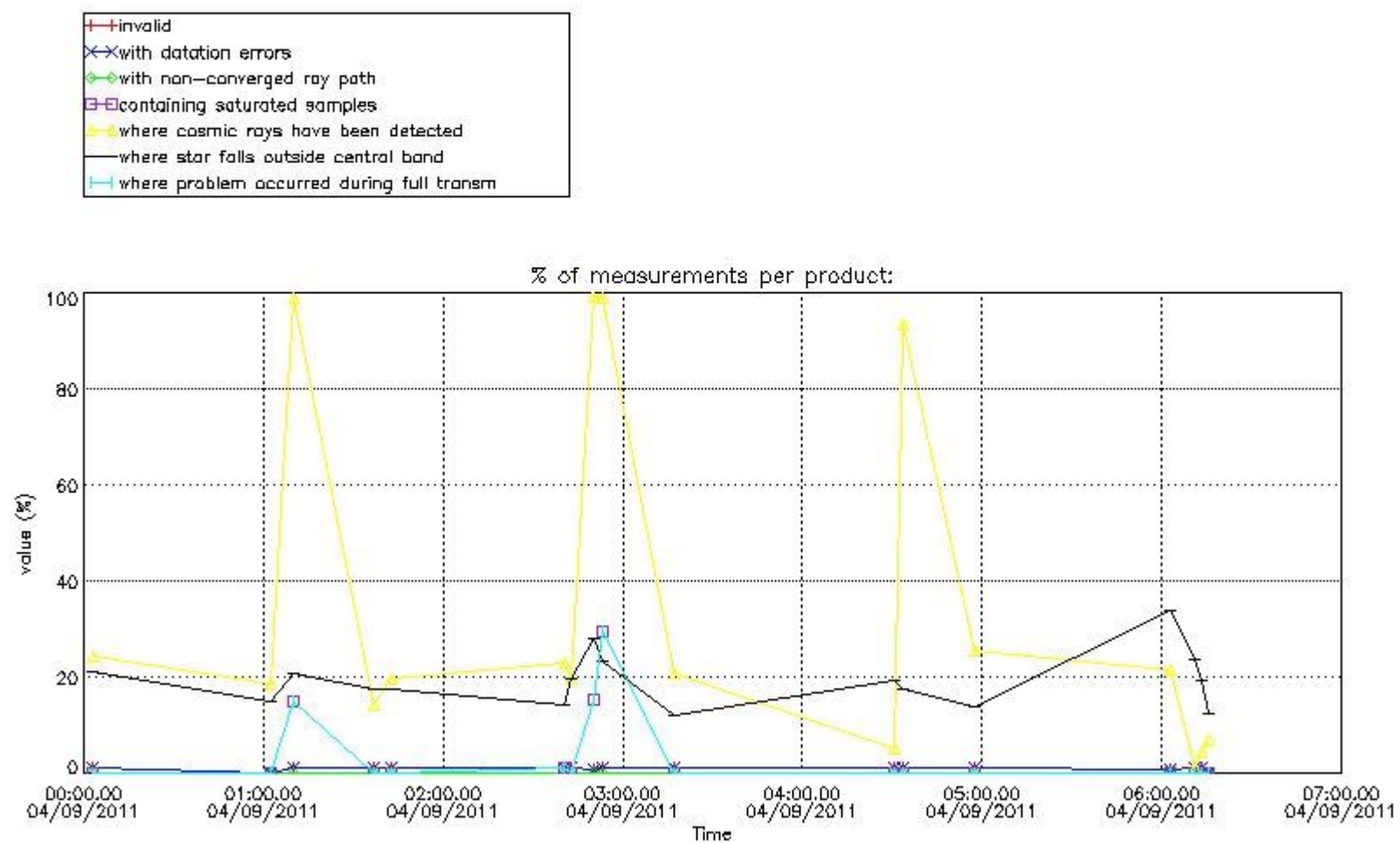


#### 4. Level 1 quality information per product

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.

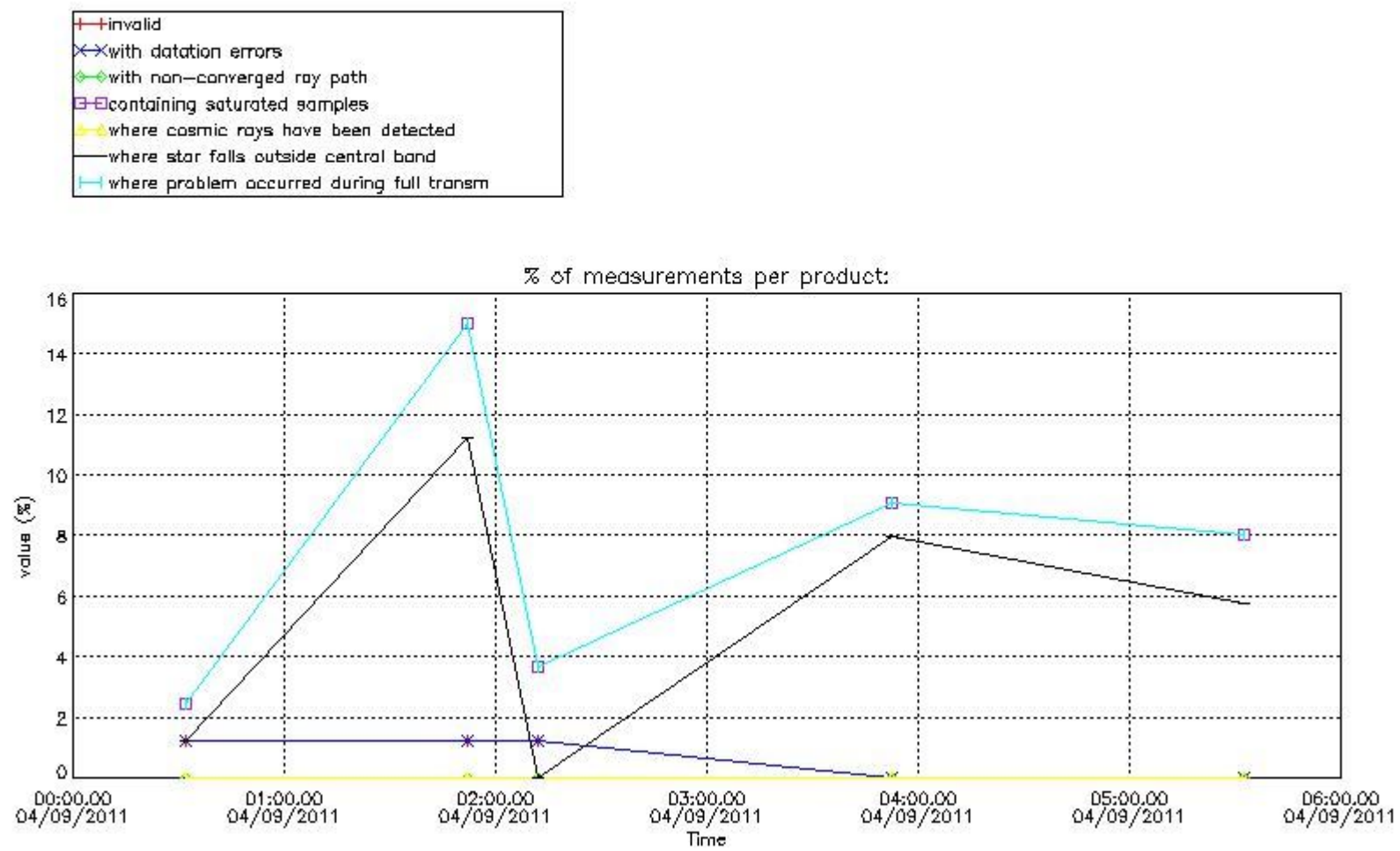
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

##### 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

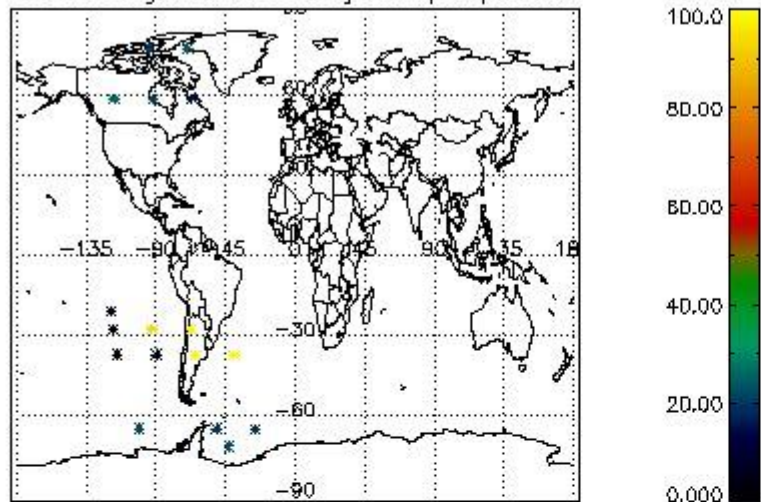




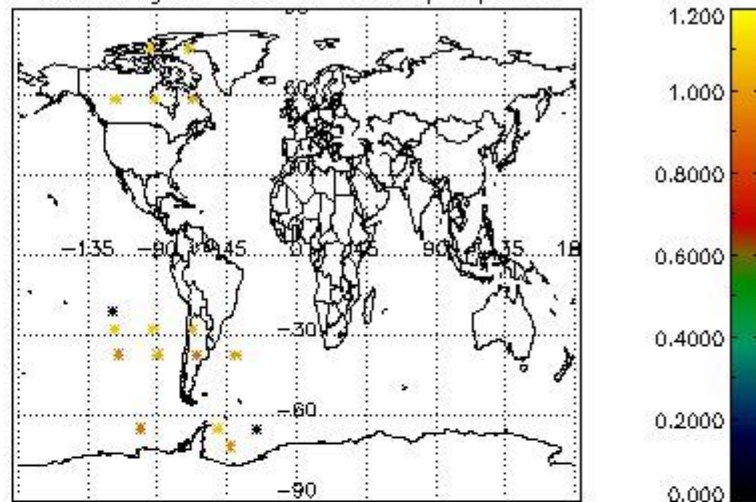
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

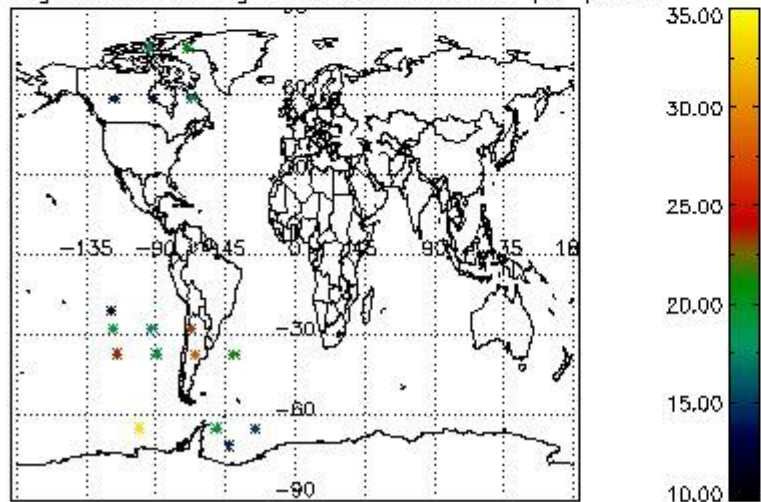
Percentage of cosmic ray hits per profile



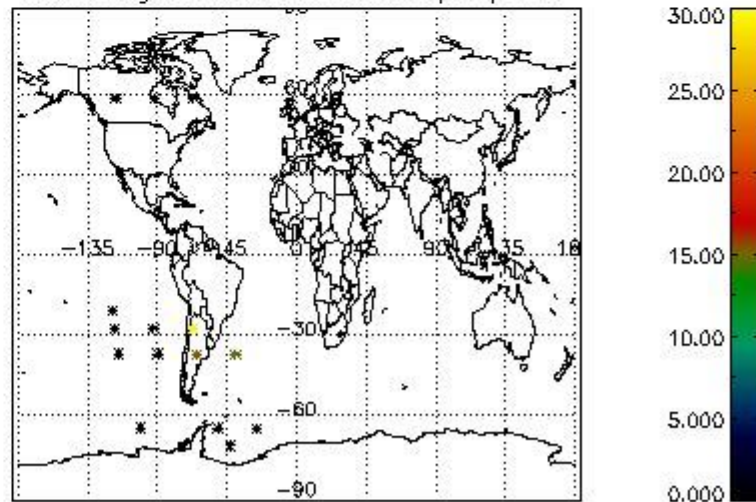
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

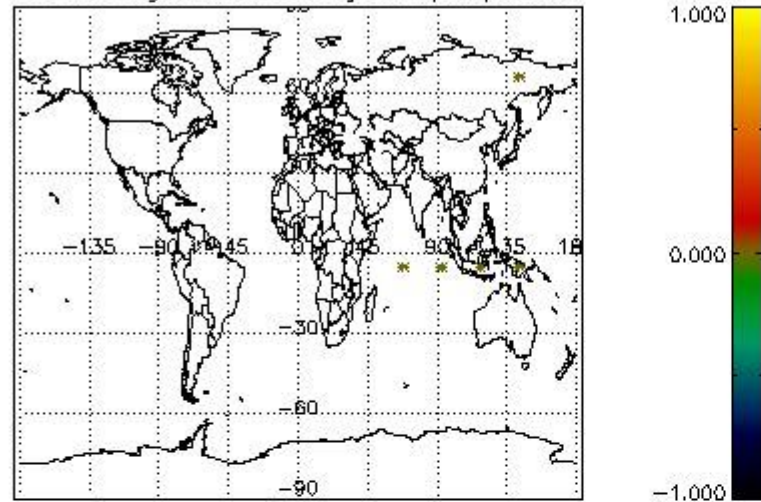


Percentage of saturation errors per profile

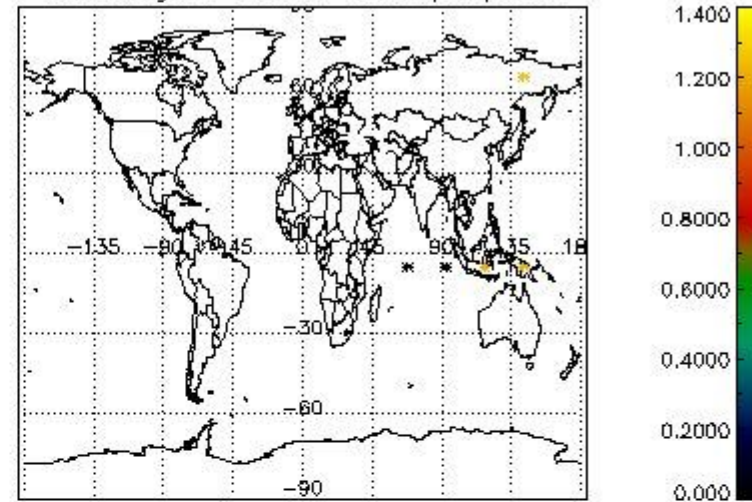


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

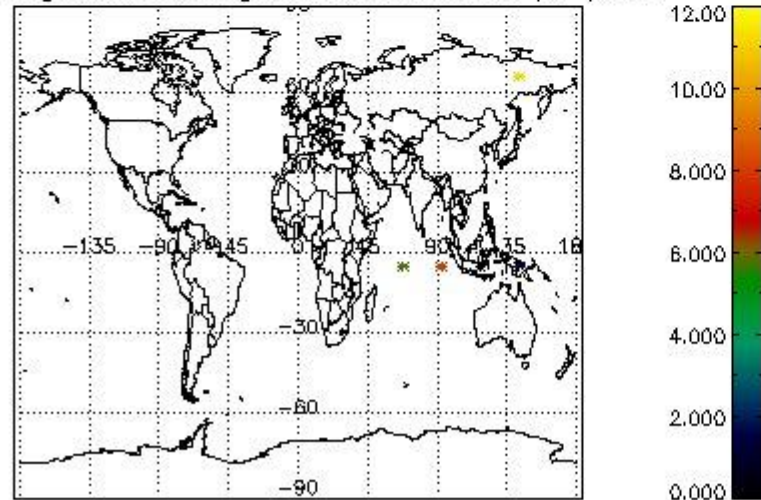
Percentage of cosmic ray hits per profile



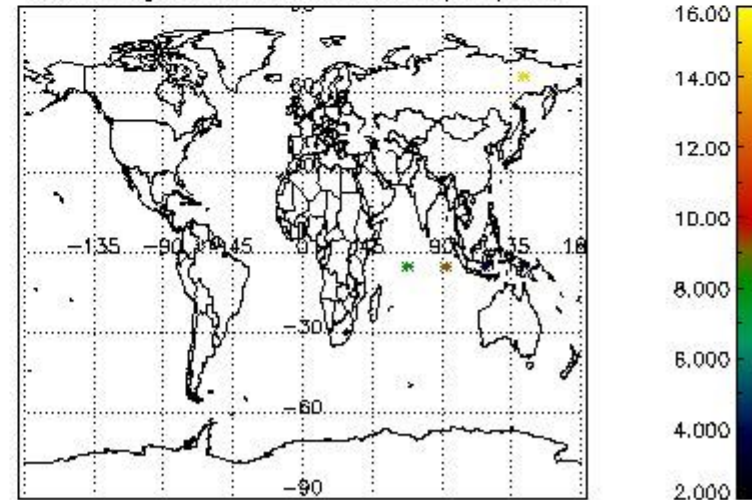
Percentage of datation errors per profile



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.

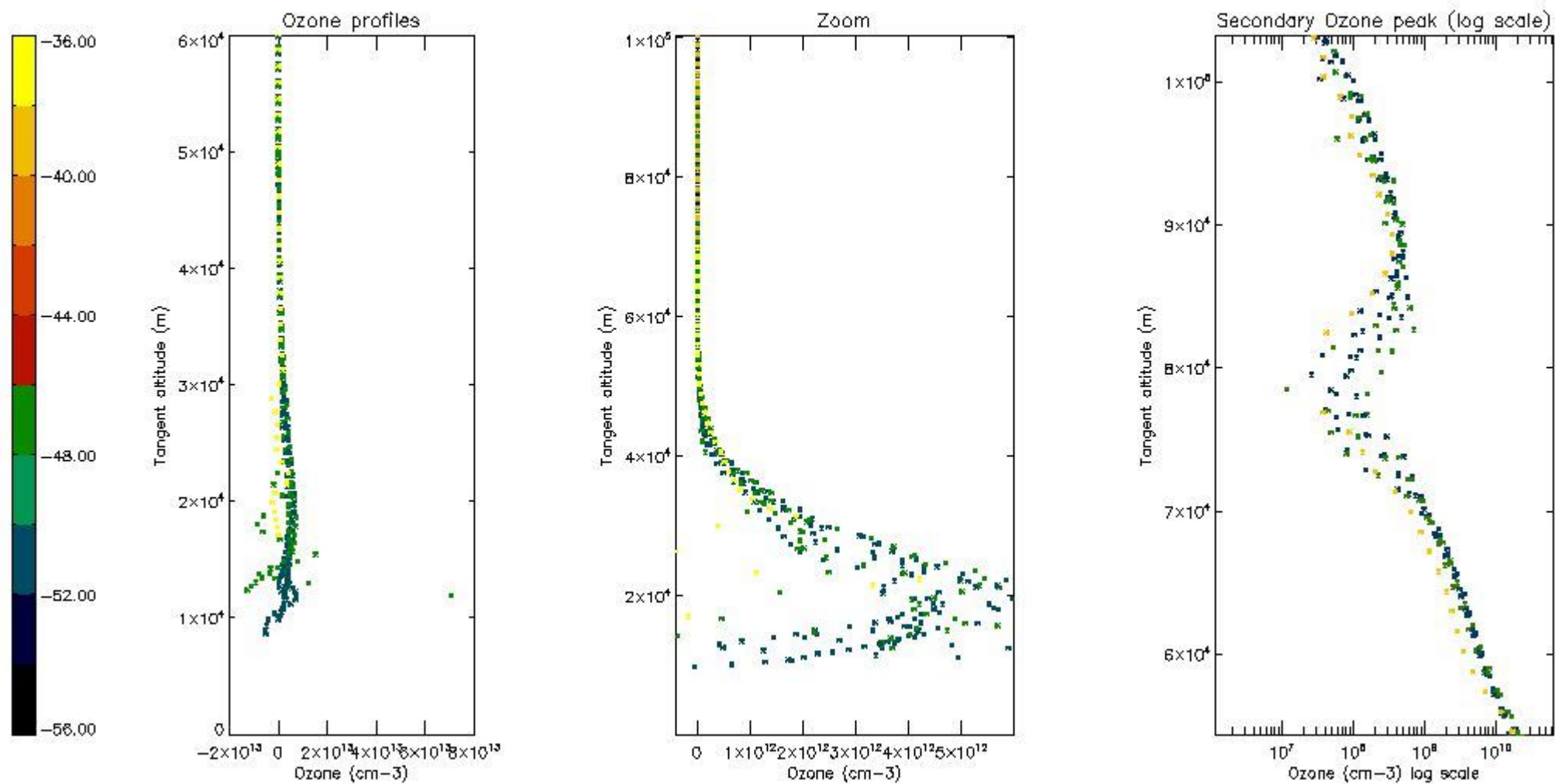
Criteria	% of total production
All STD	38
STD < 20	27



STD < 10	24
STD < 5	20

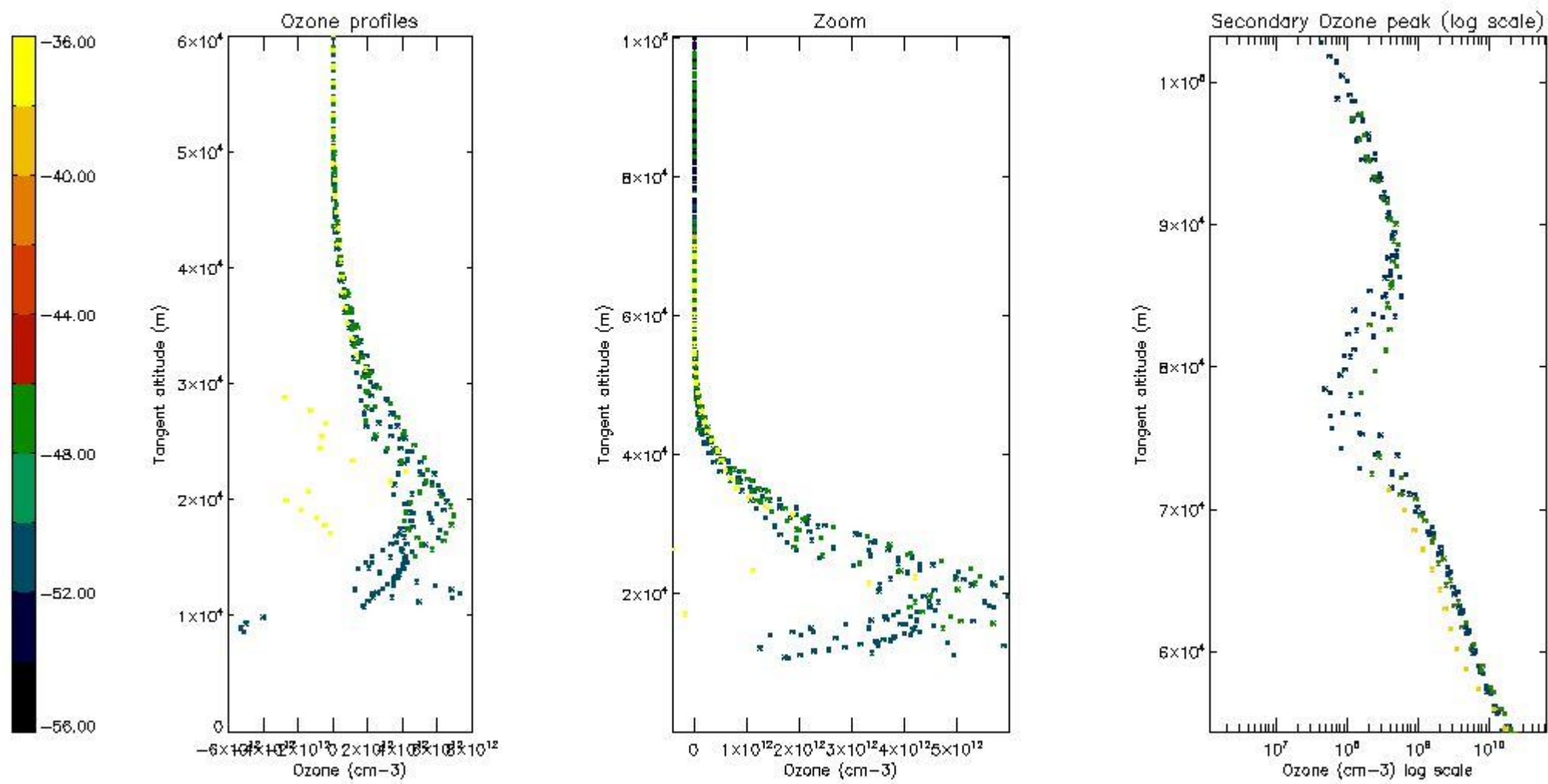
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

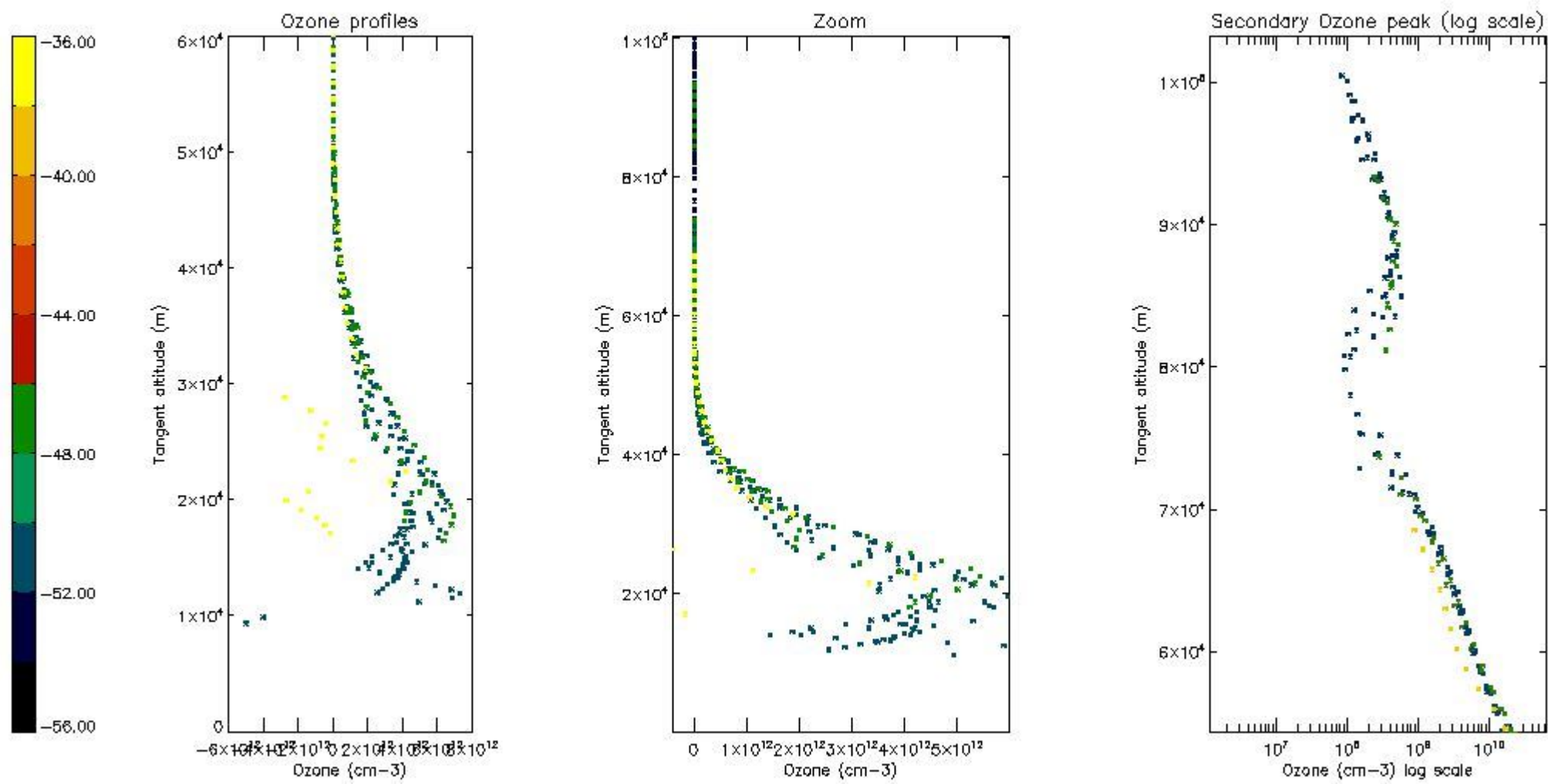
The colorbar represents the latitude.



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

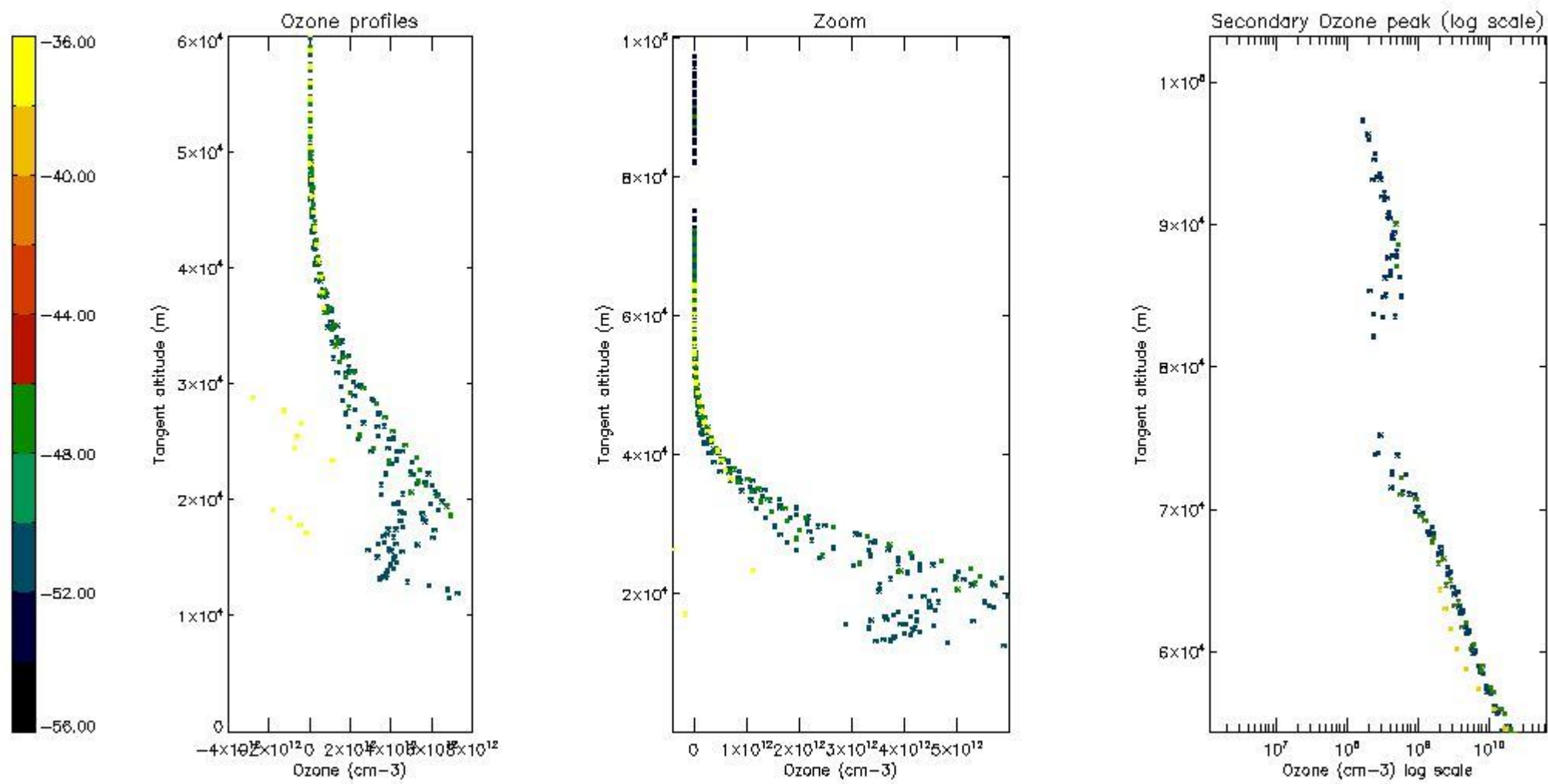
The colorbar represents the latitude.





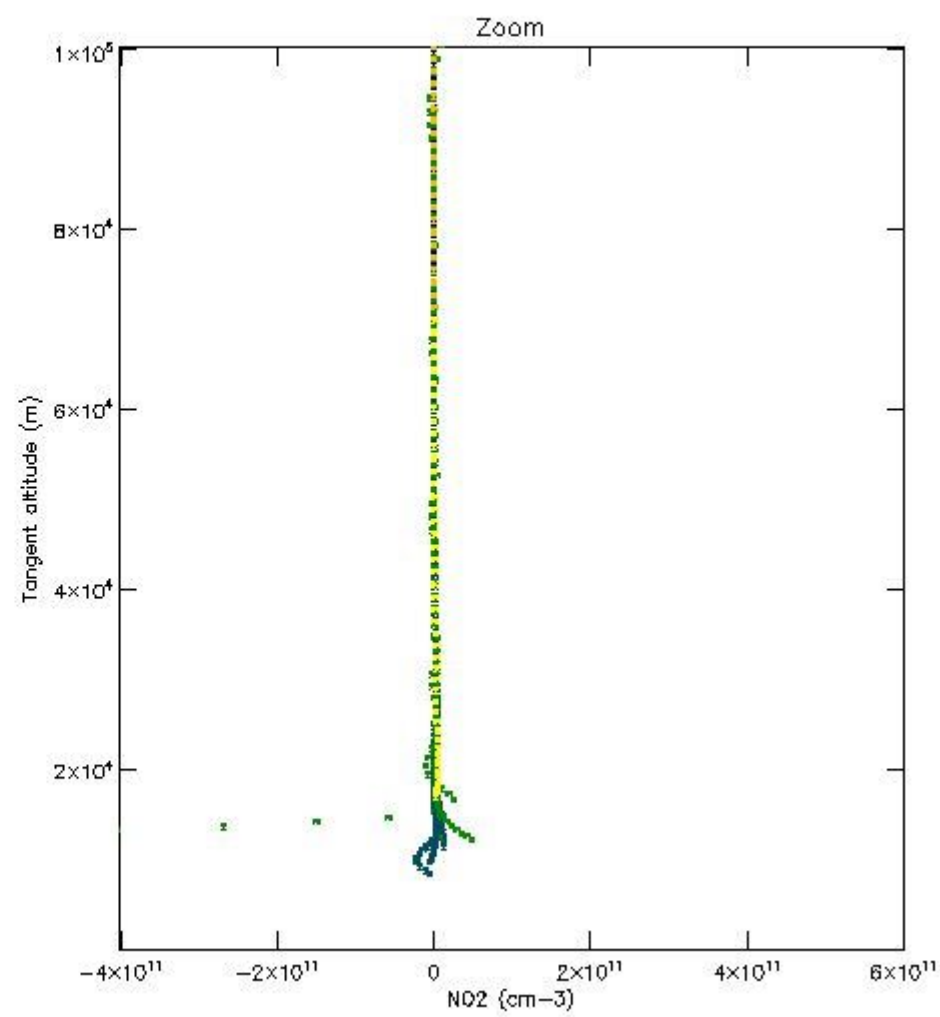
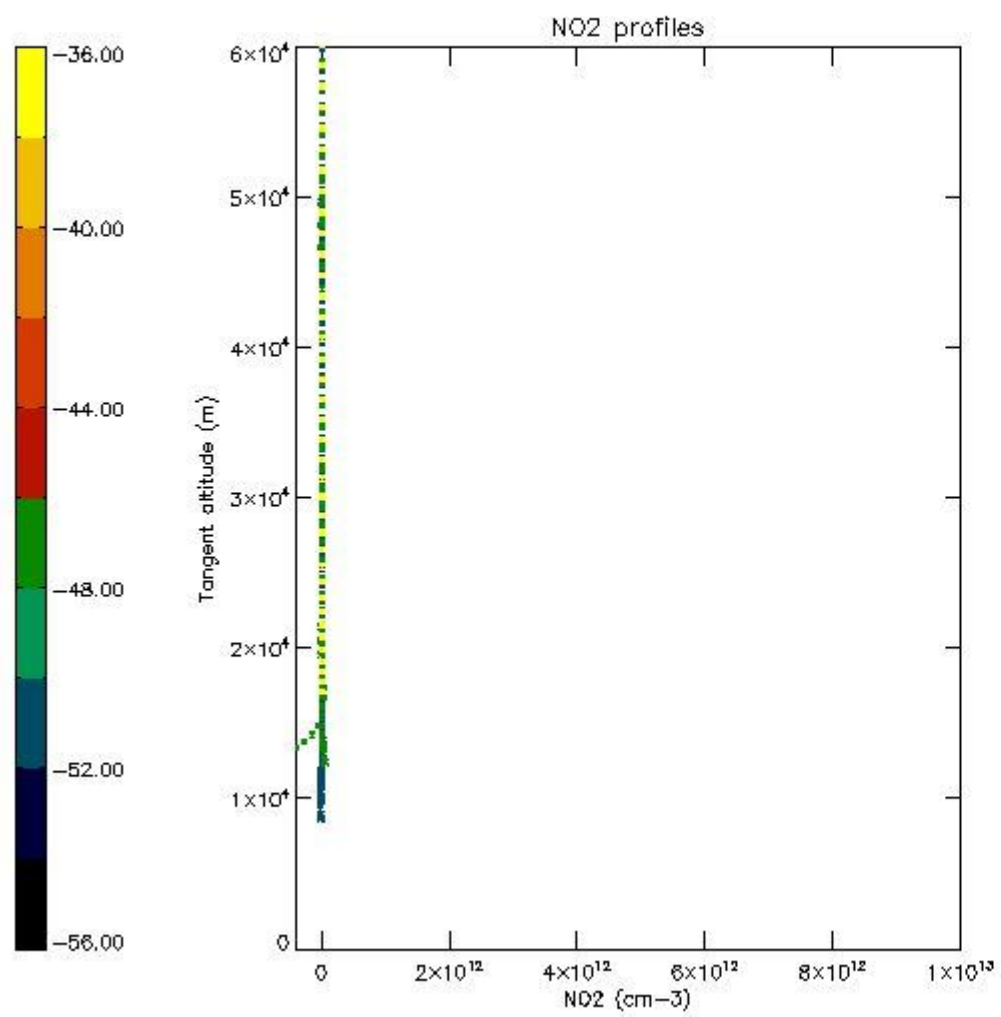
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



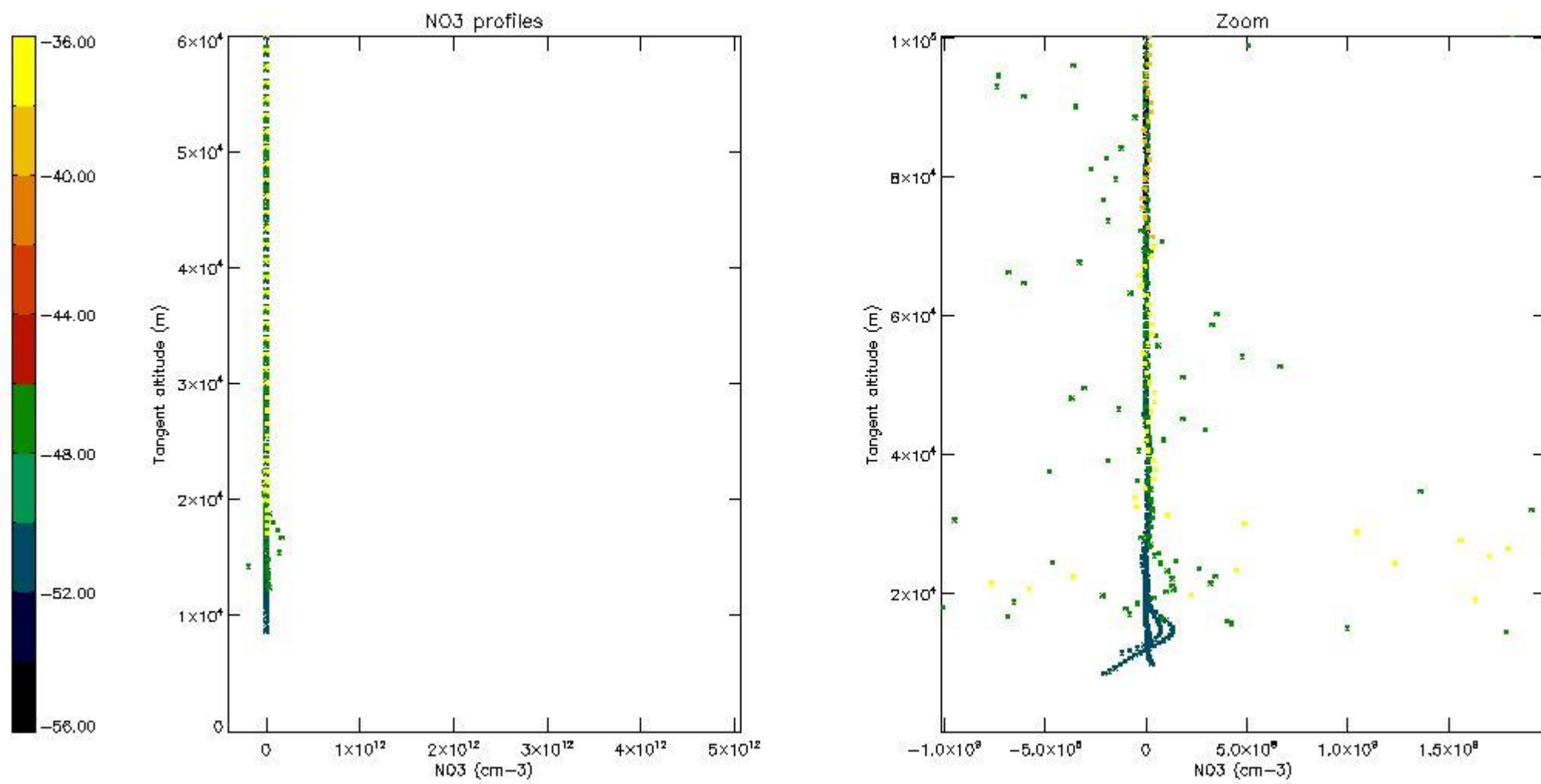
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



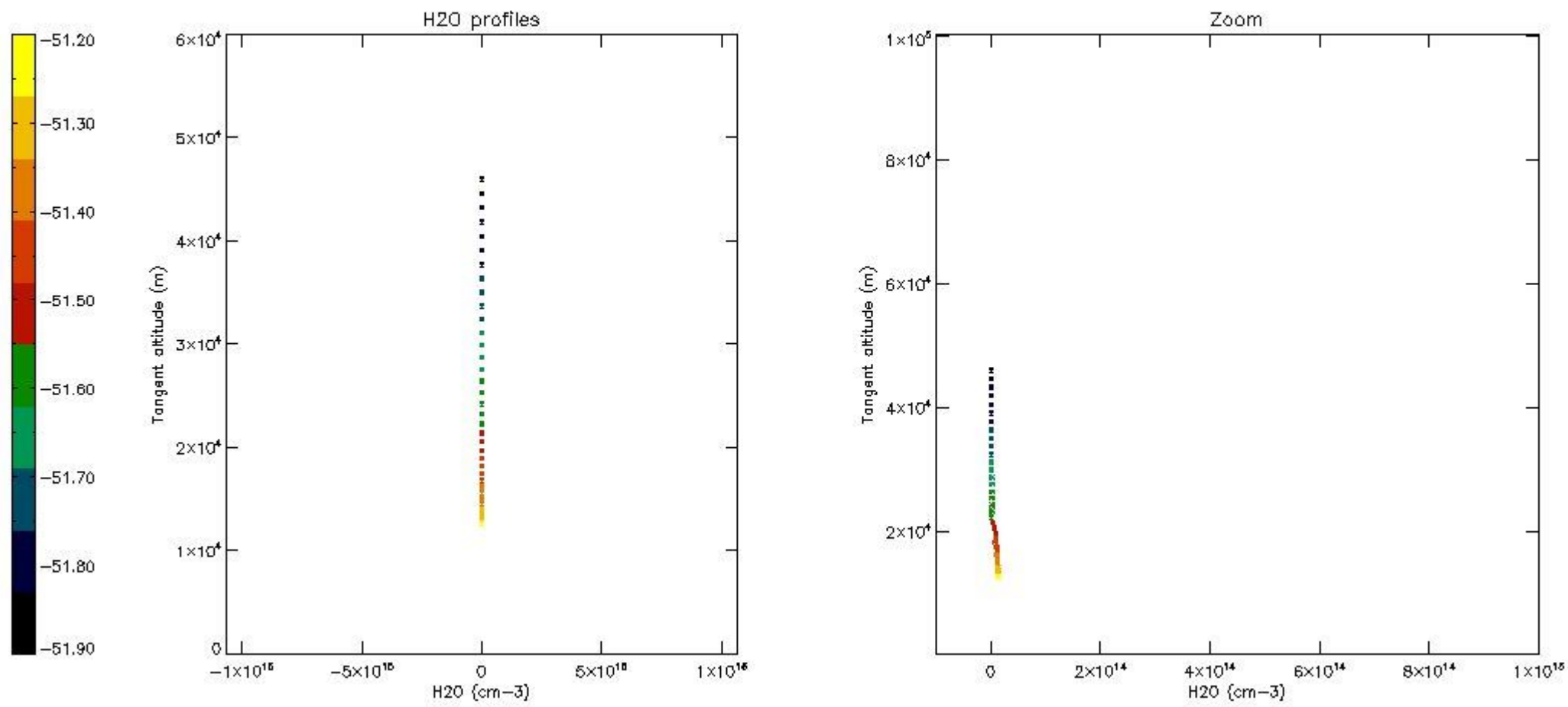
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.

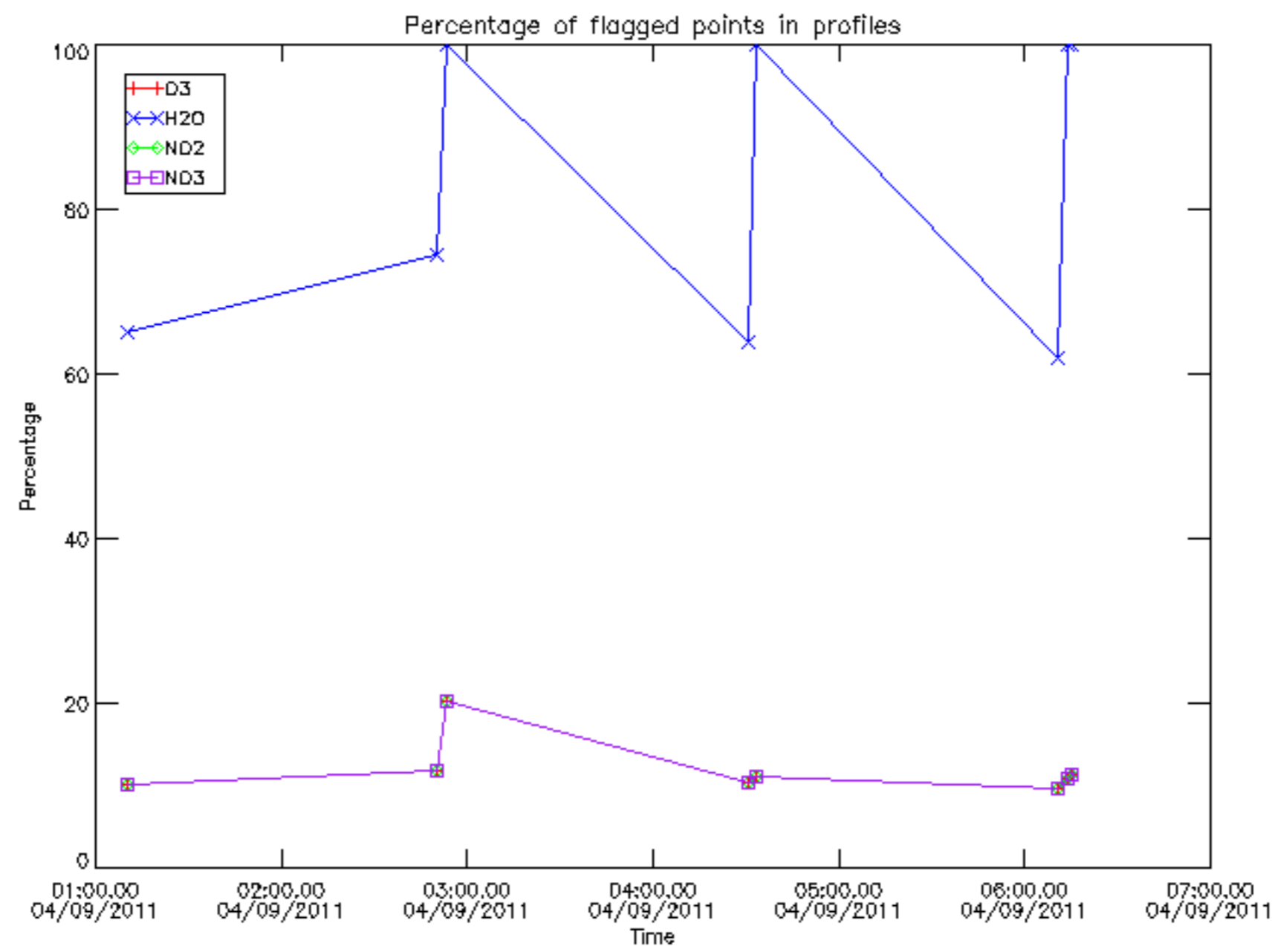


## 6. Auxiliary Data Files used for the production reported in section 2

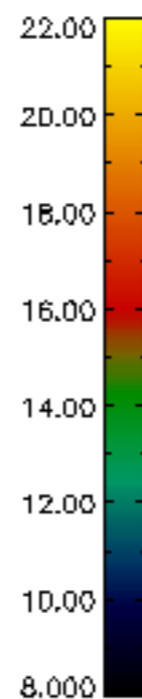
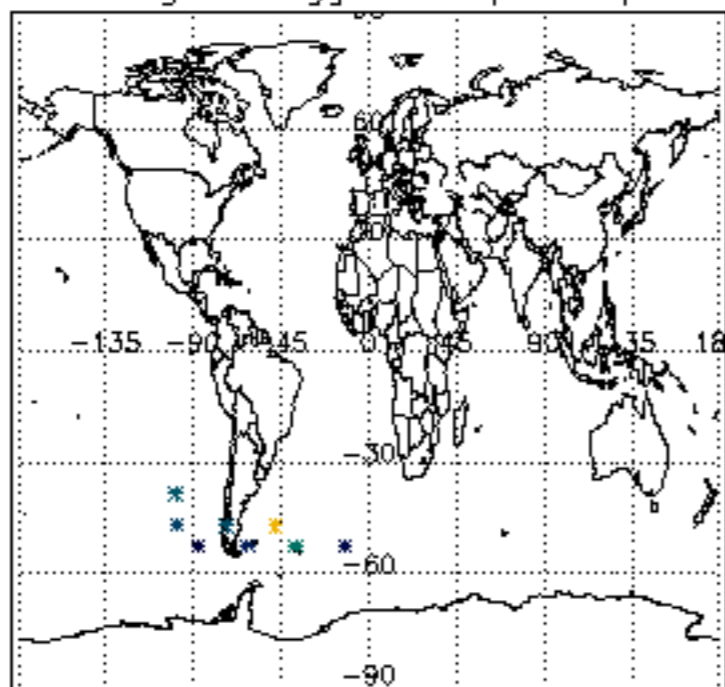
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	04-SEP-2011 00:02:41
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-SEP-2011 00:02:41
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-SEP-2011 00:02:41

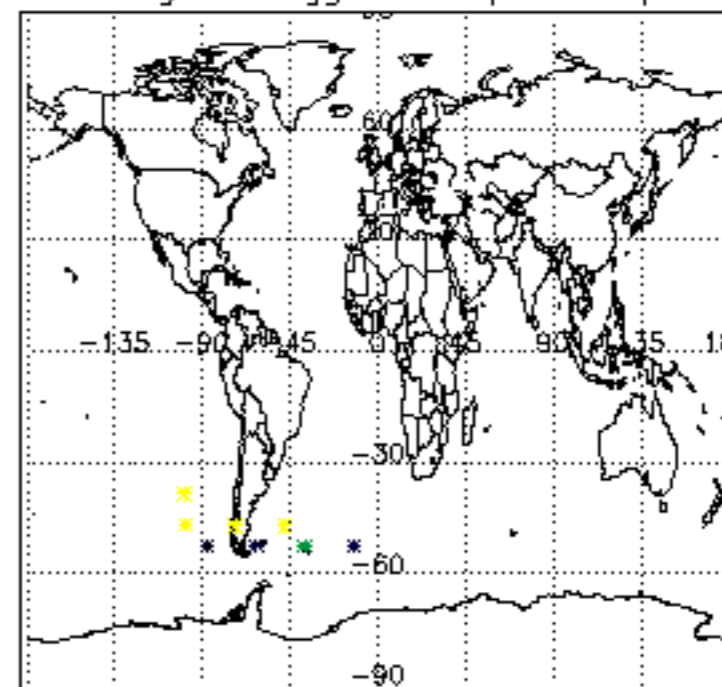




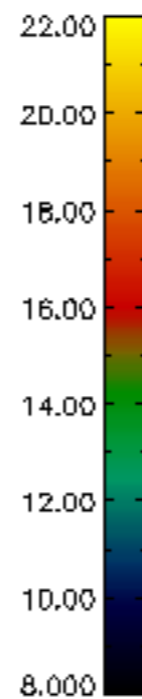
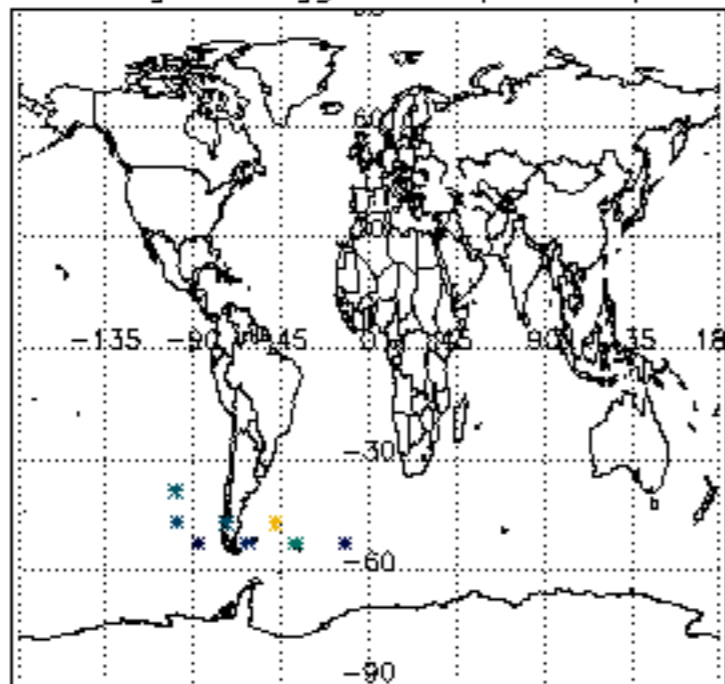
Percentage of flagged data per D3 profile



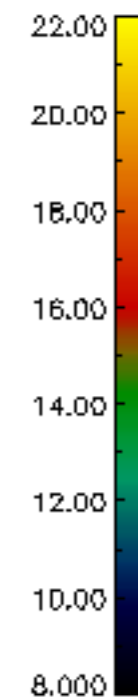
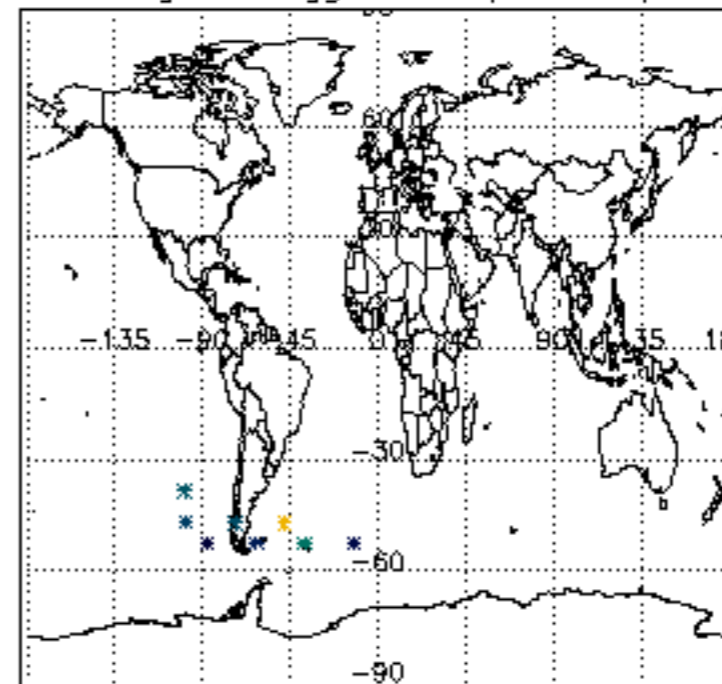
Percentage of flagged data per H2O profile

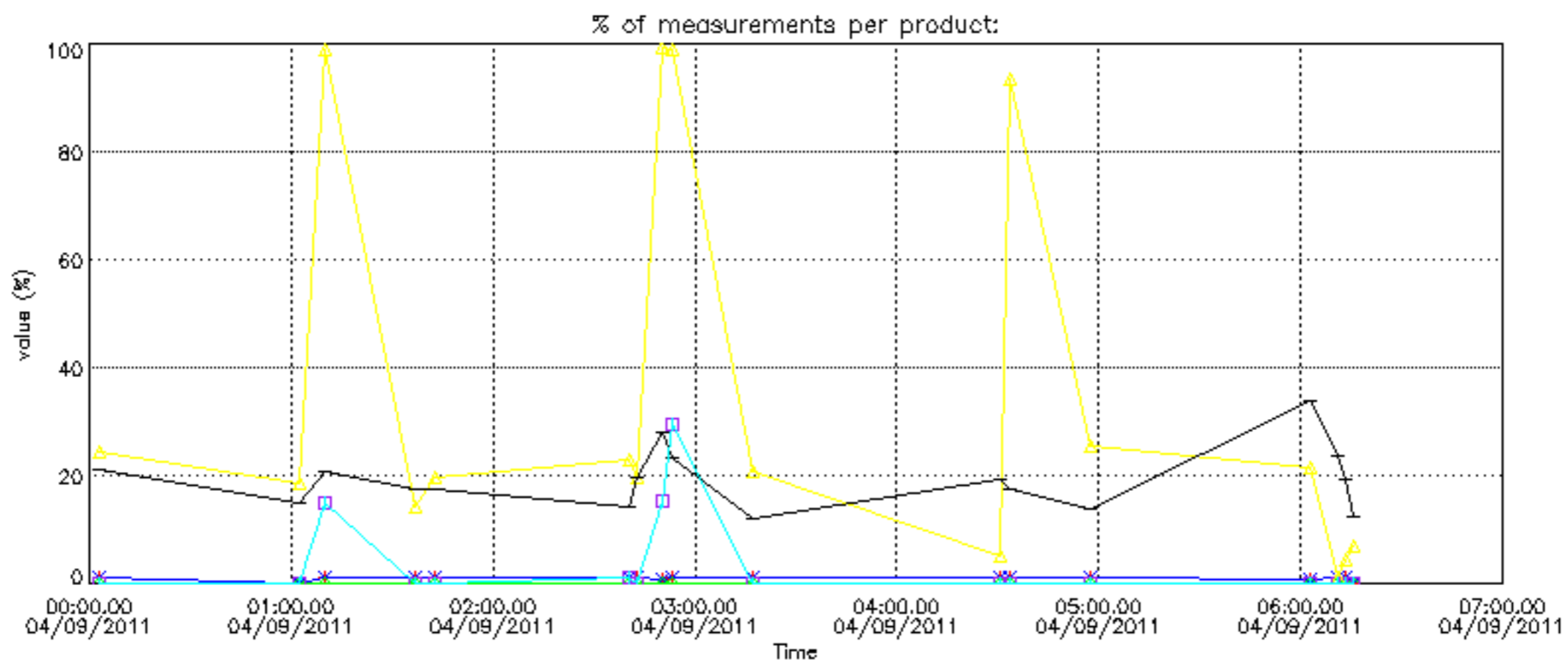


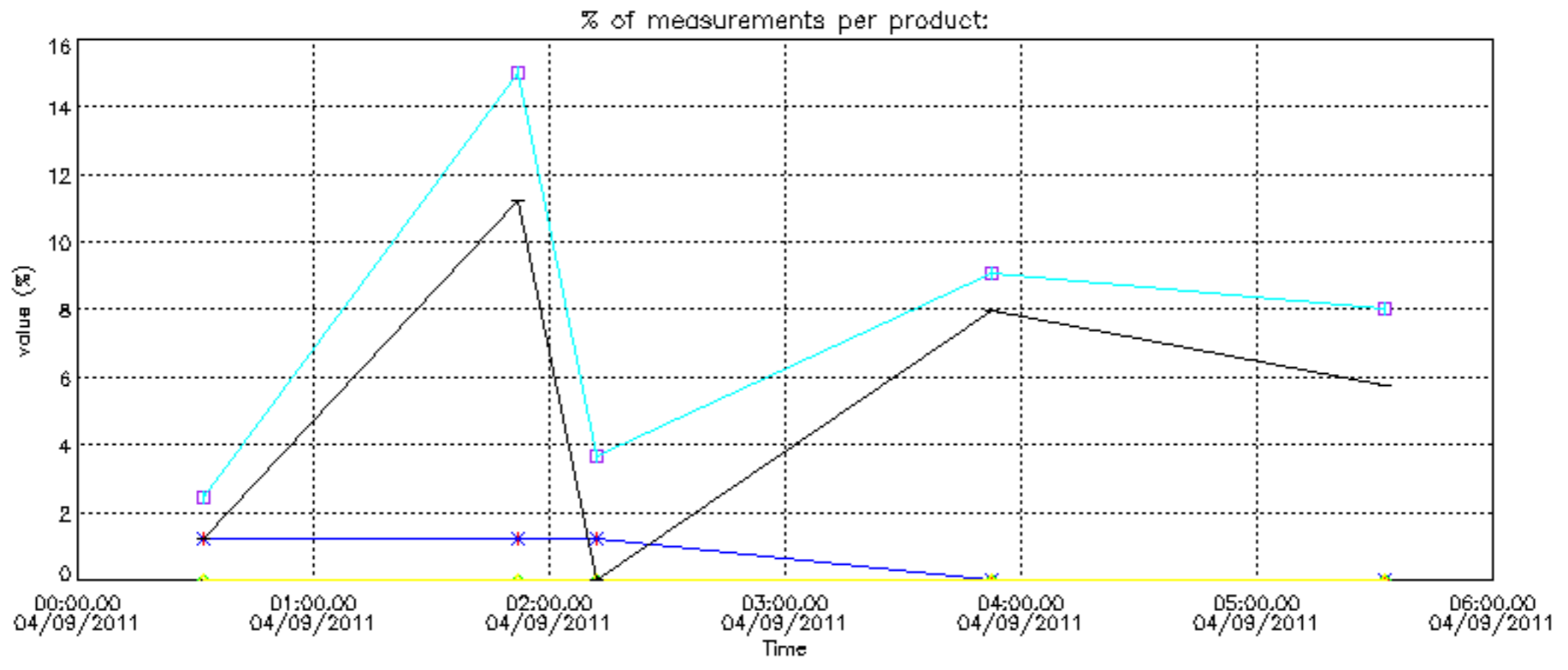
Percentage of flagged data per NO2 profile



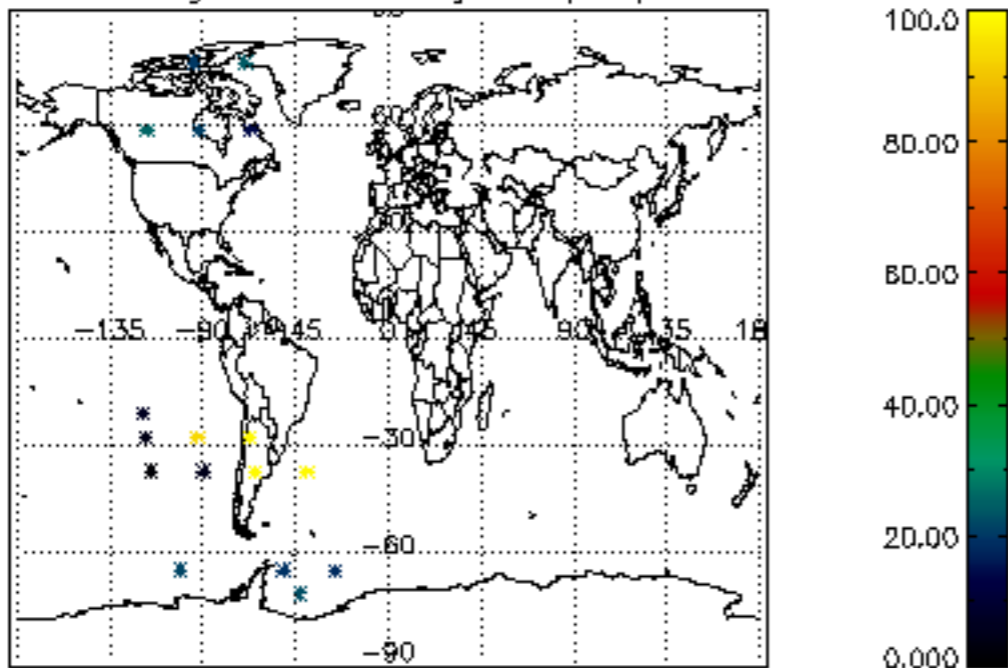
Percentage of flagged data per NO3 profile



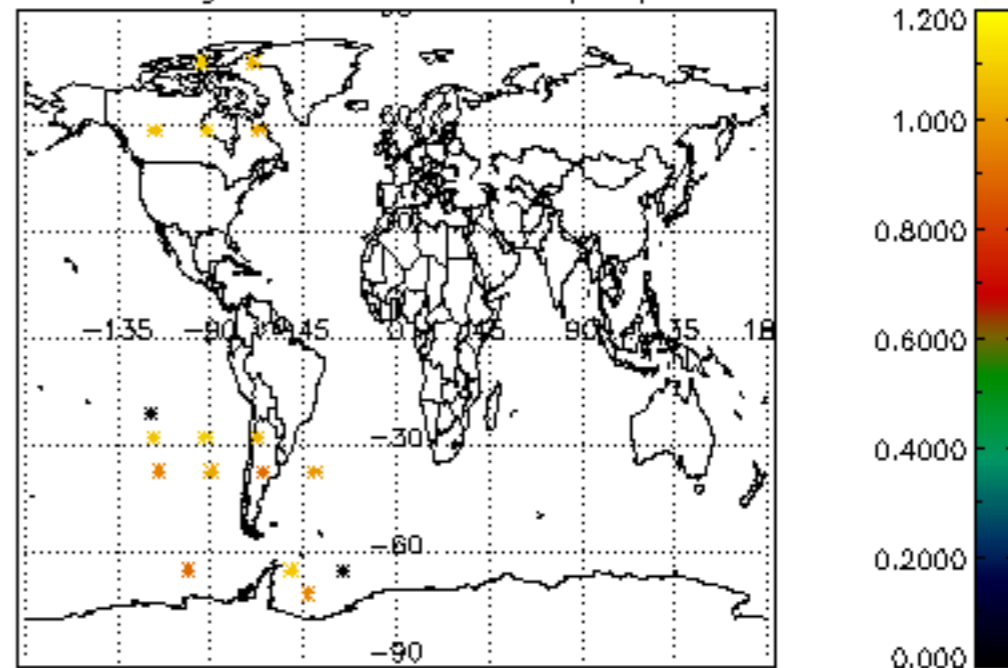




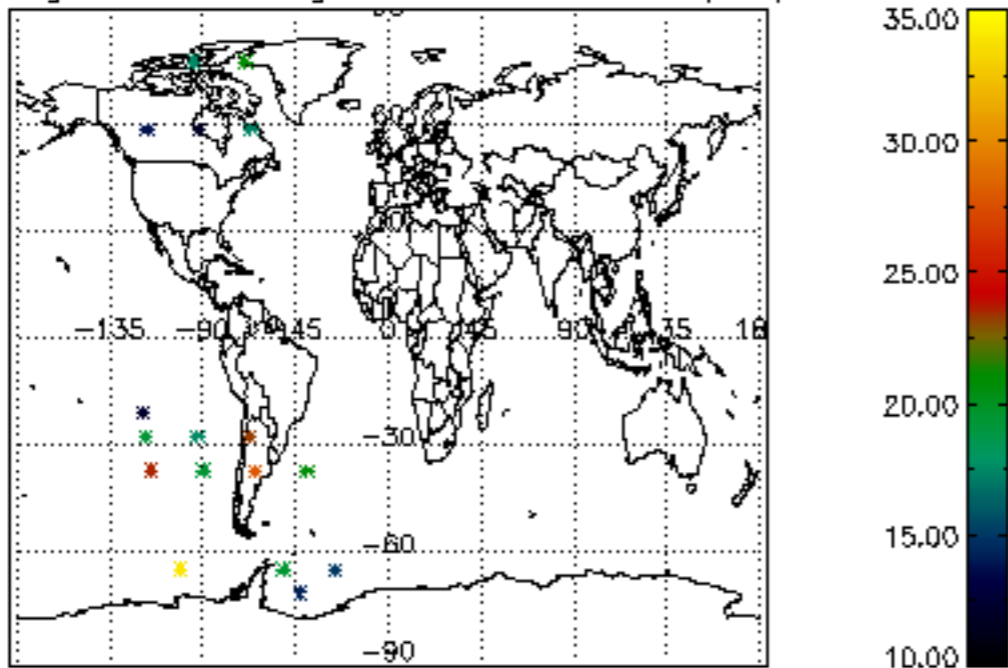
Percentage of cosmic ray hits per profile



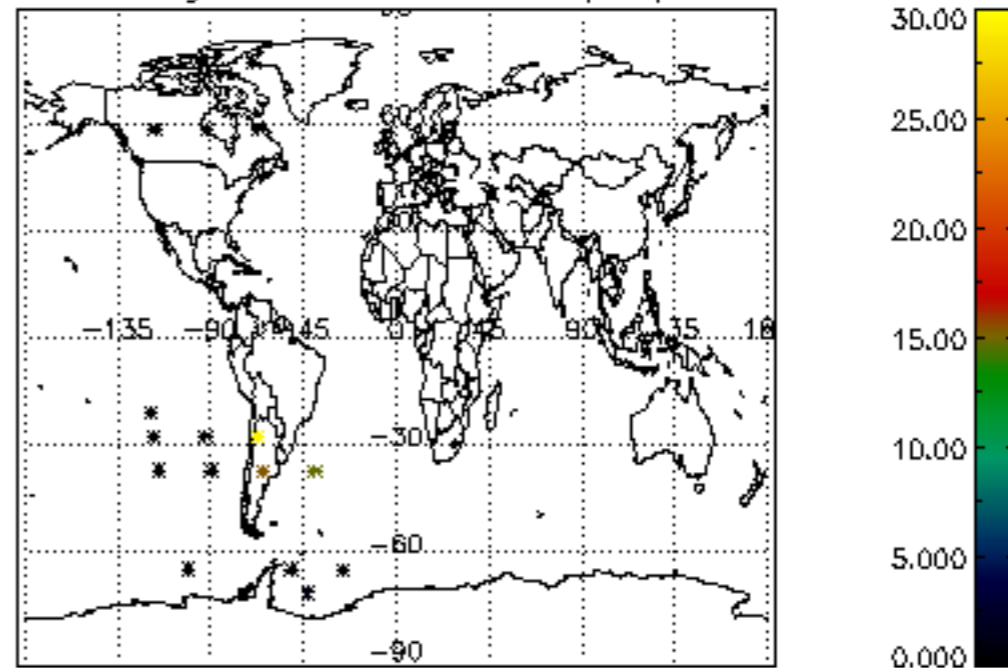
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

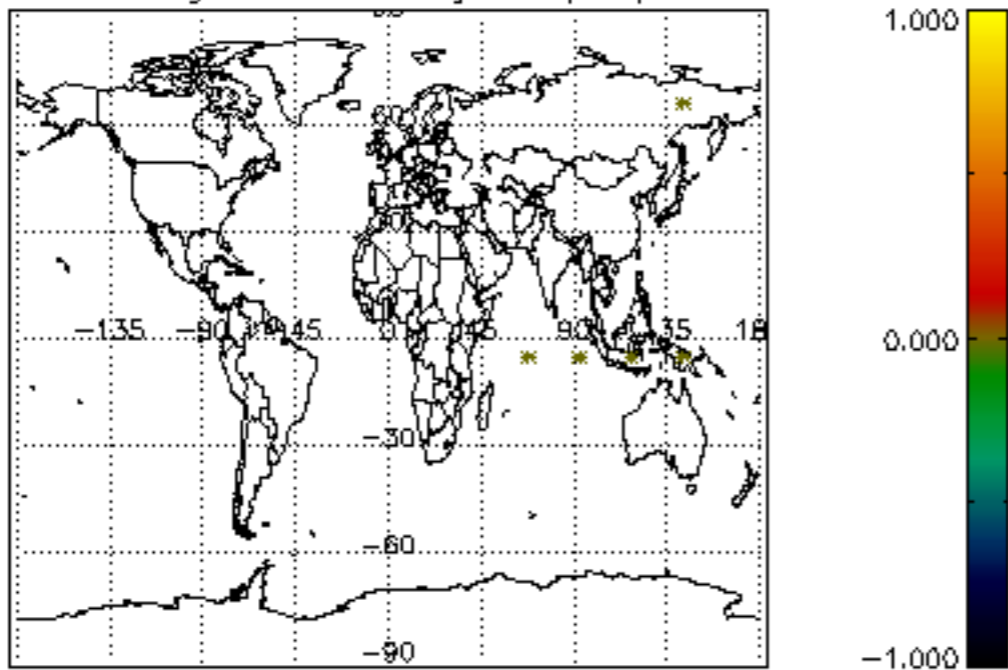


Percentage of saturation errors per profile

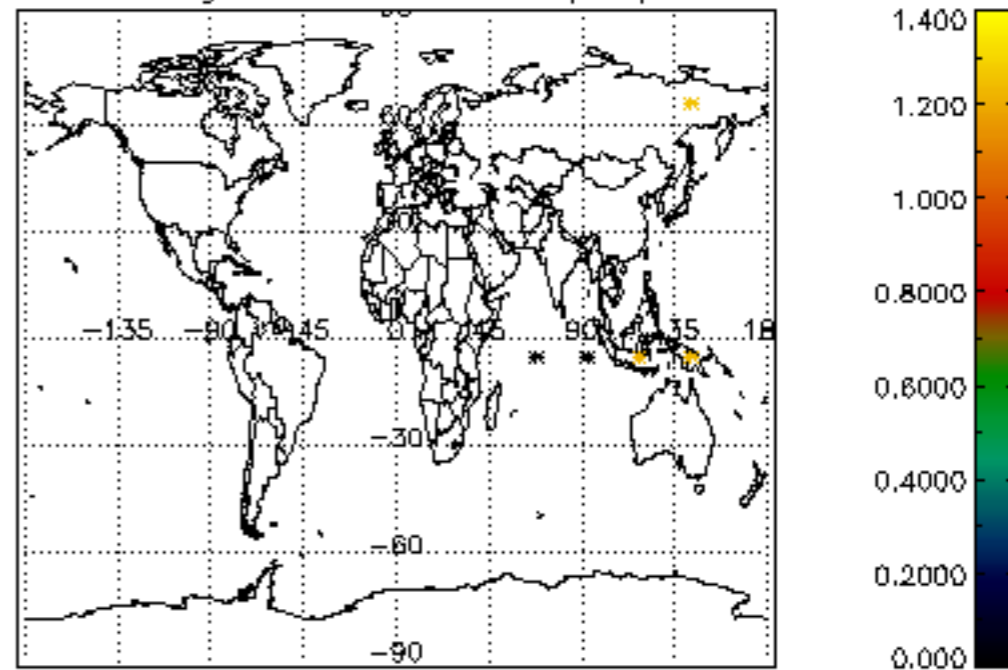




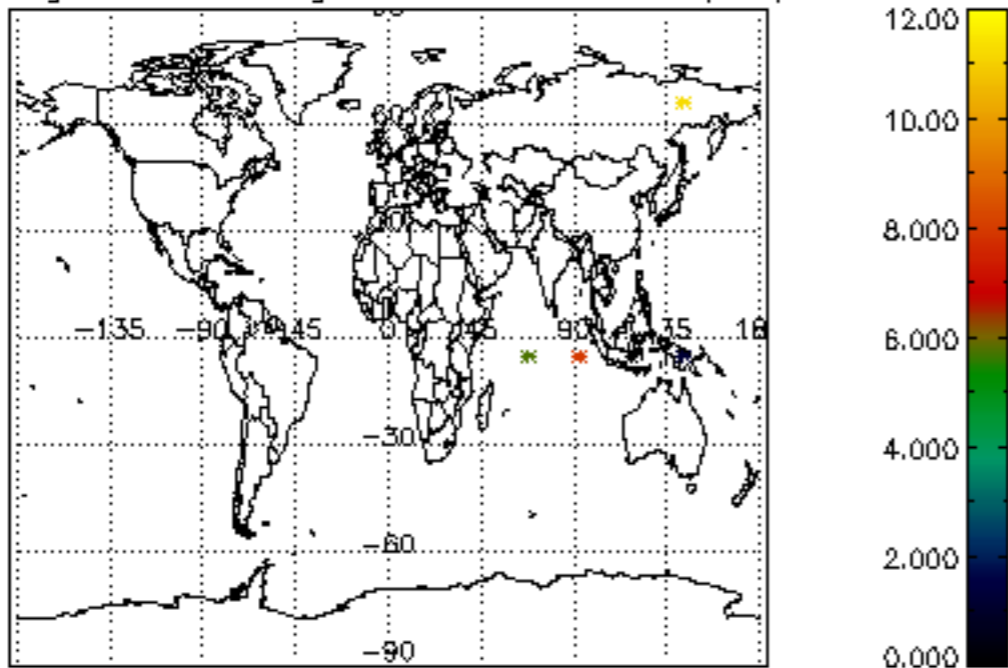
Percentage of cosmic ray hits per profile



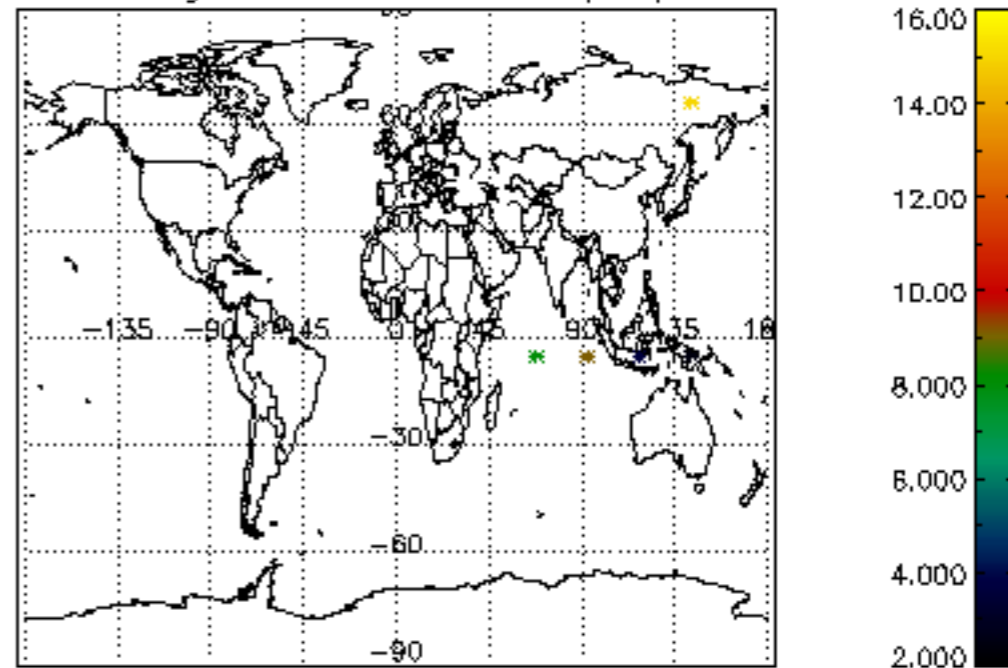
Percentage of datation errors per profile

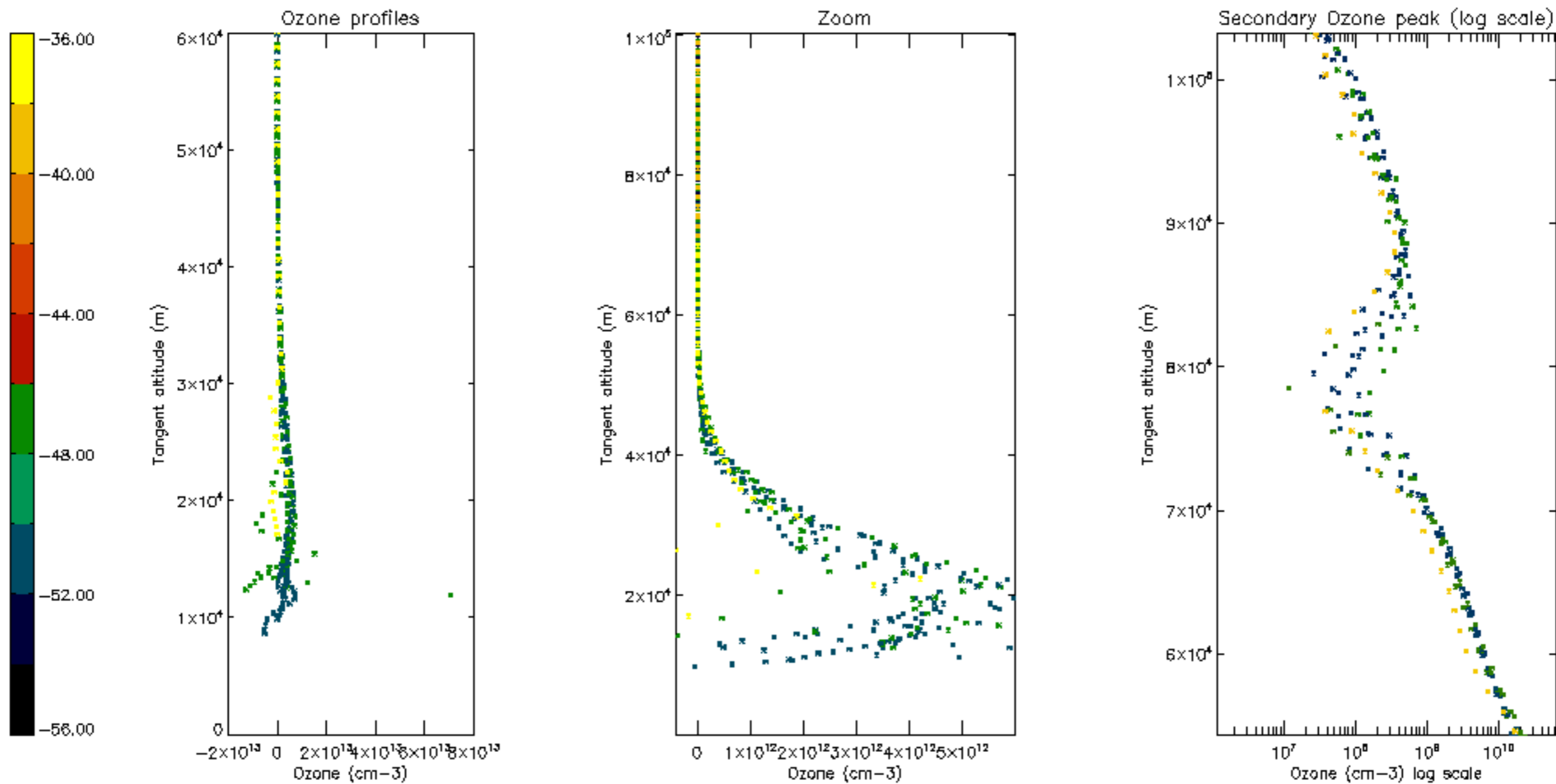


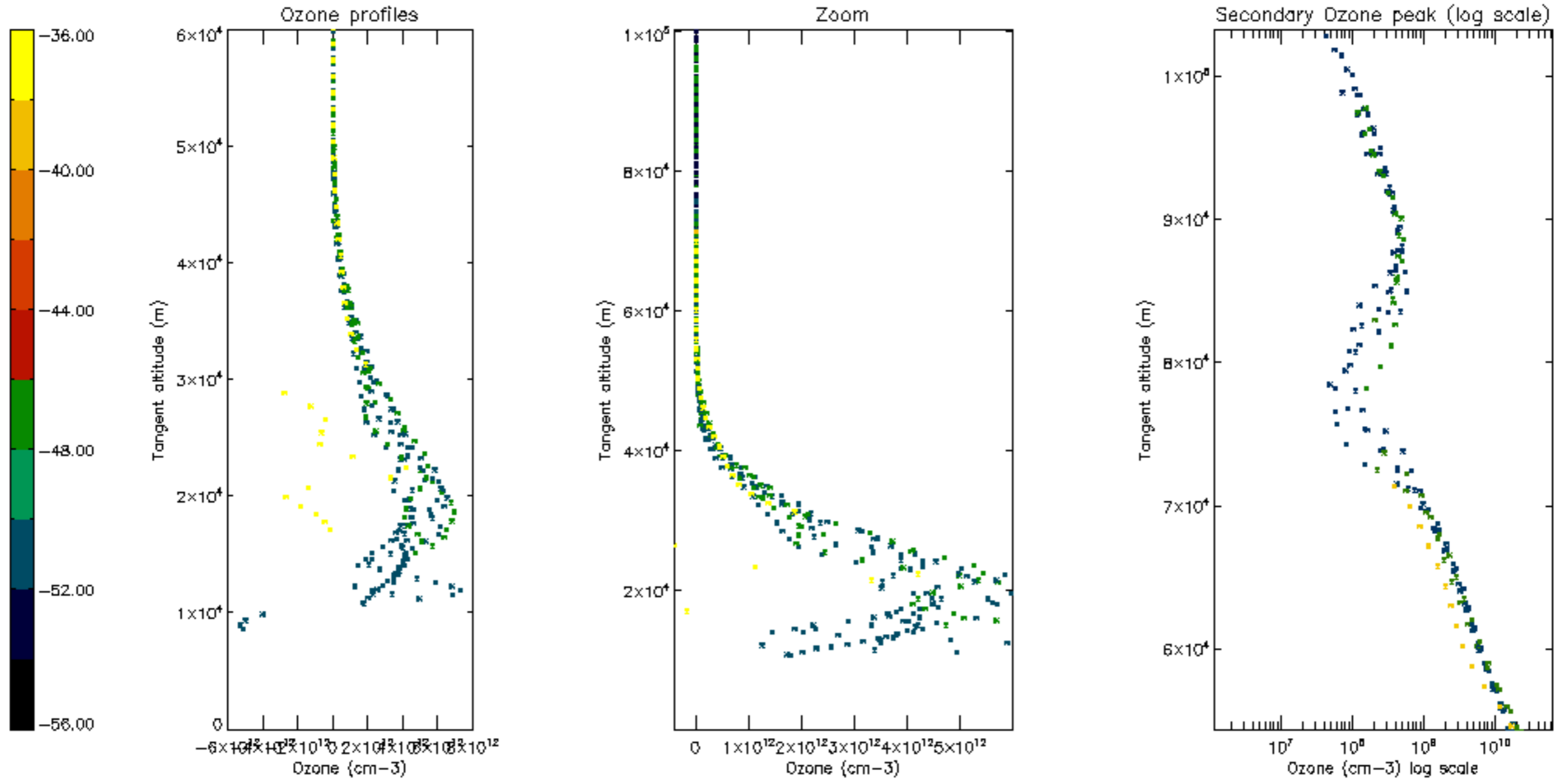
Percentage of star falling outside central band per profile

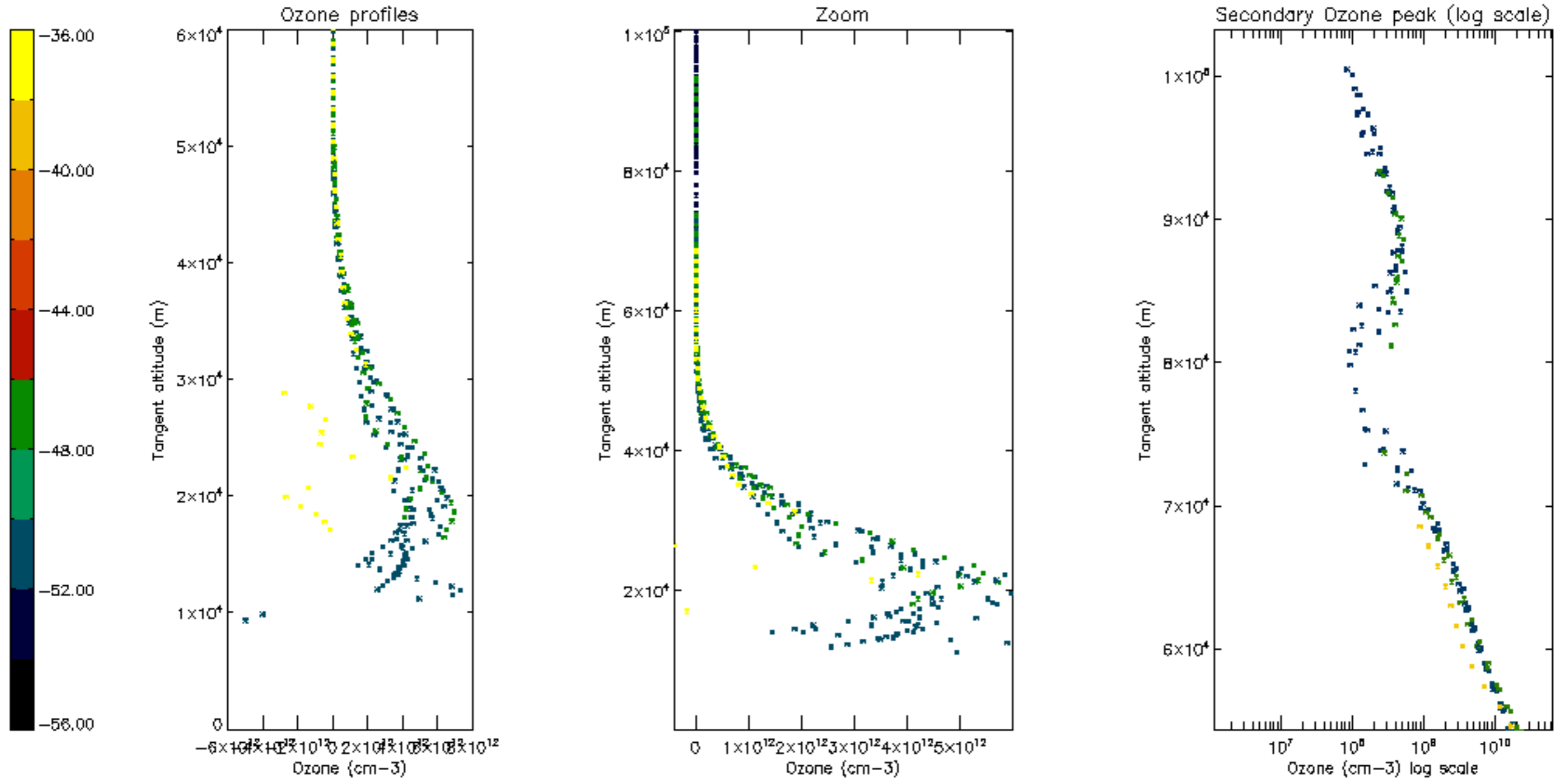


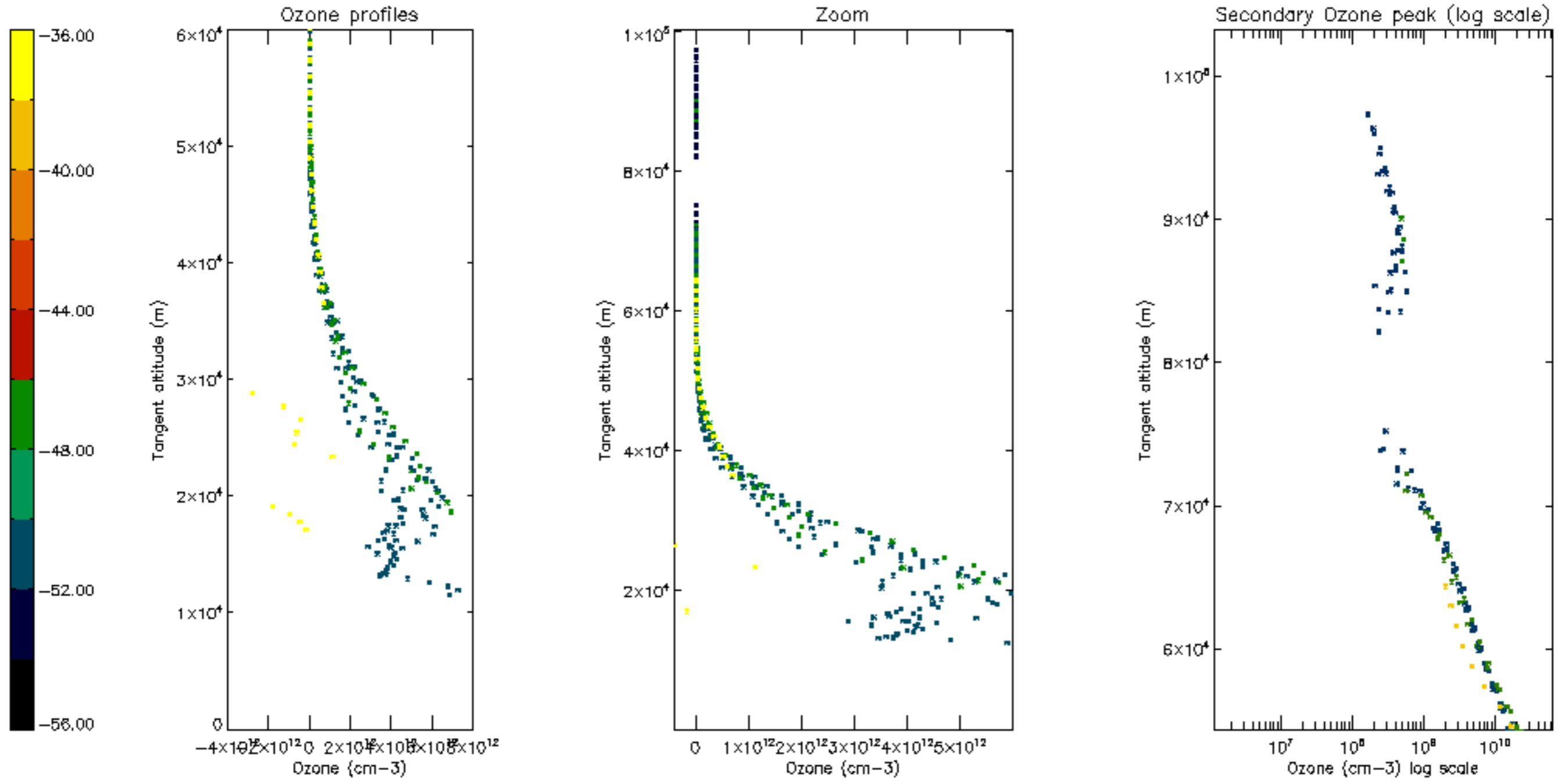
Percentage of saturation errors per profile



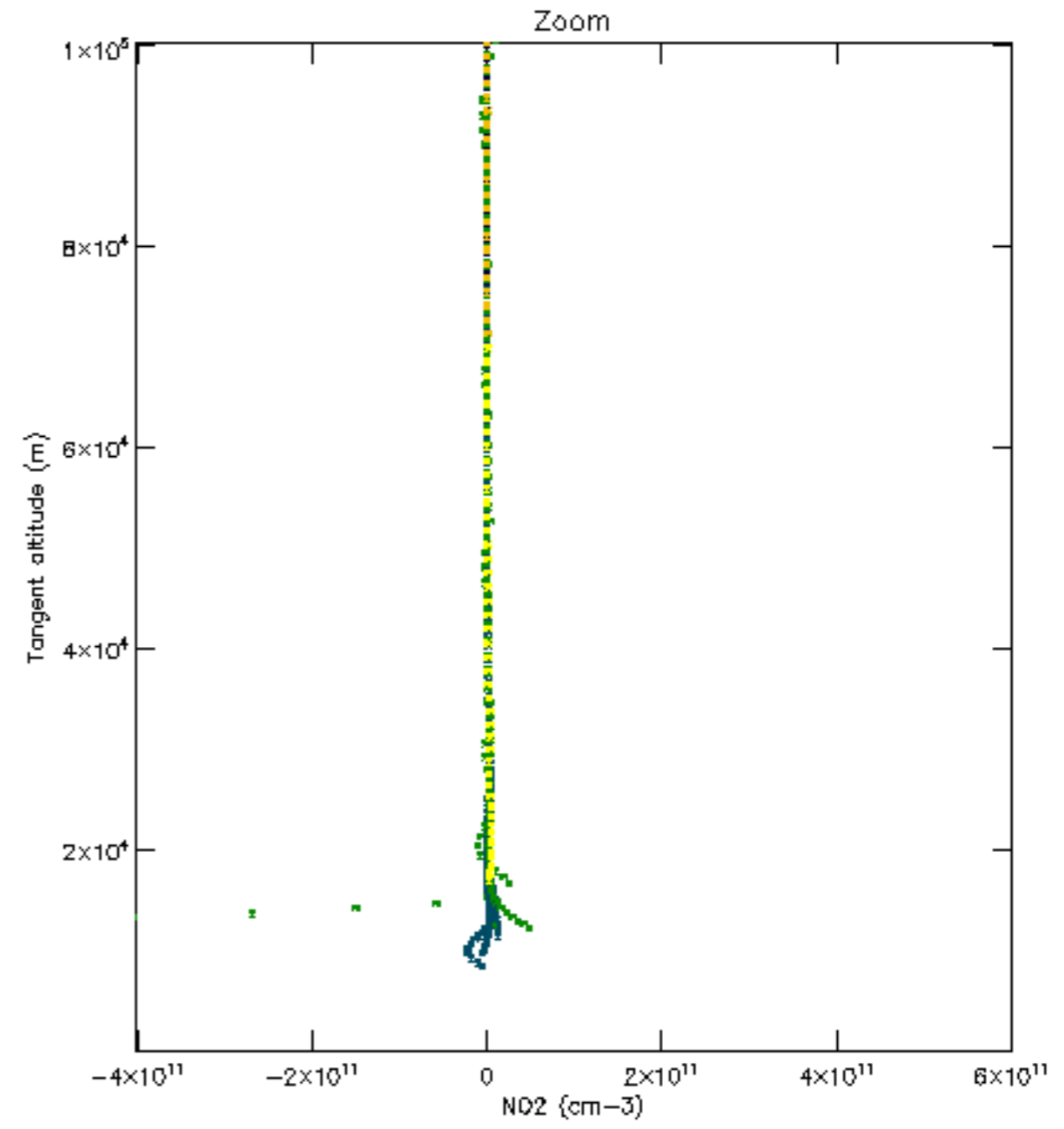
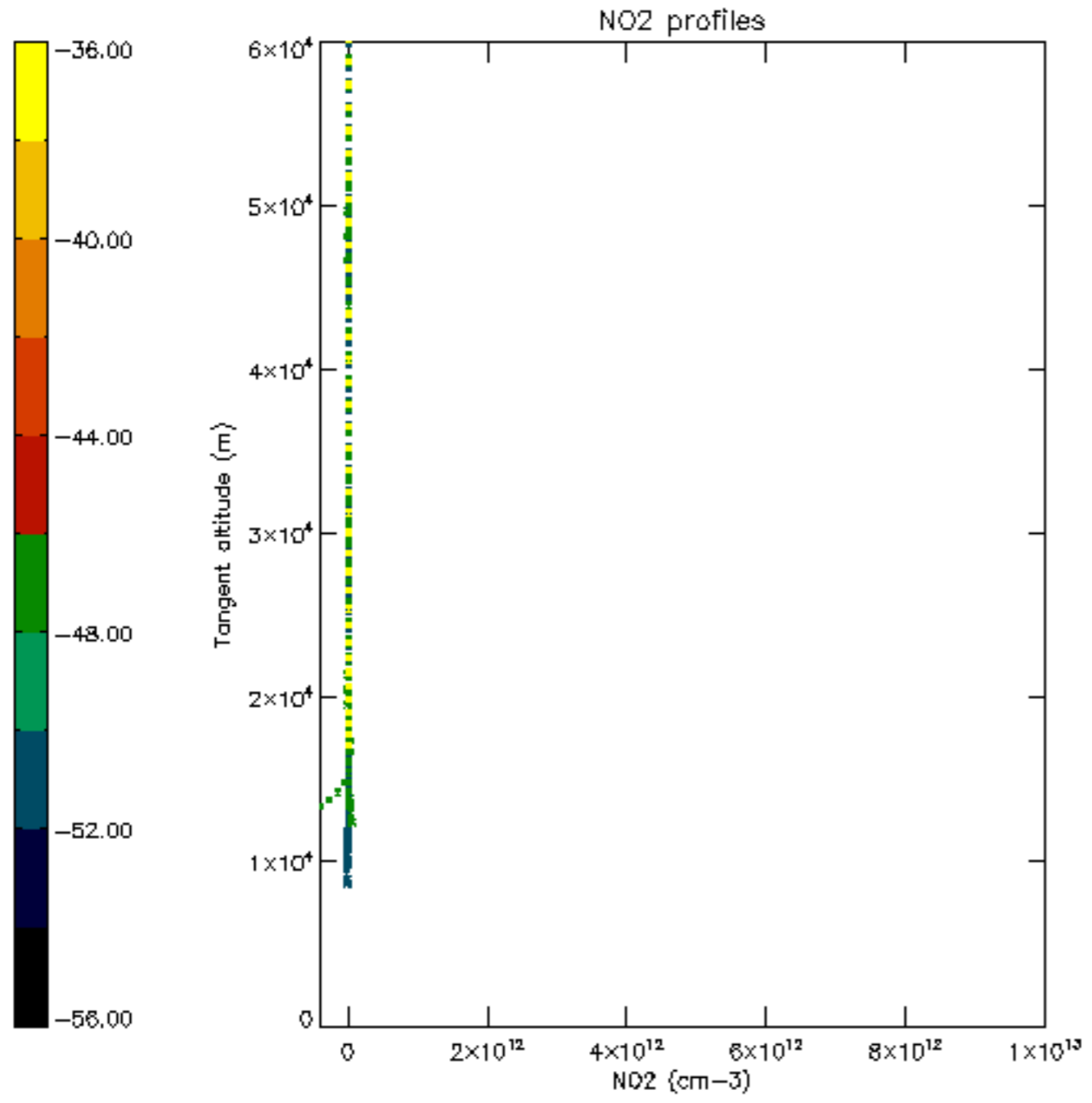


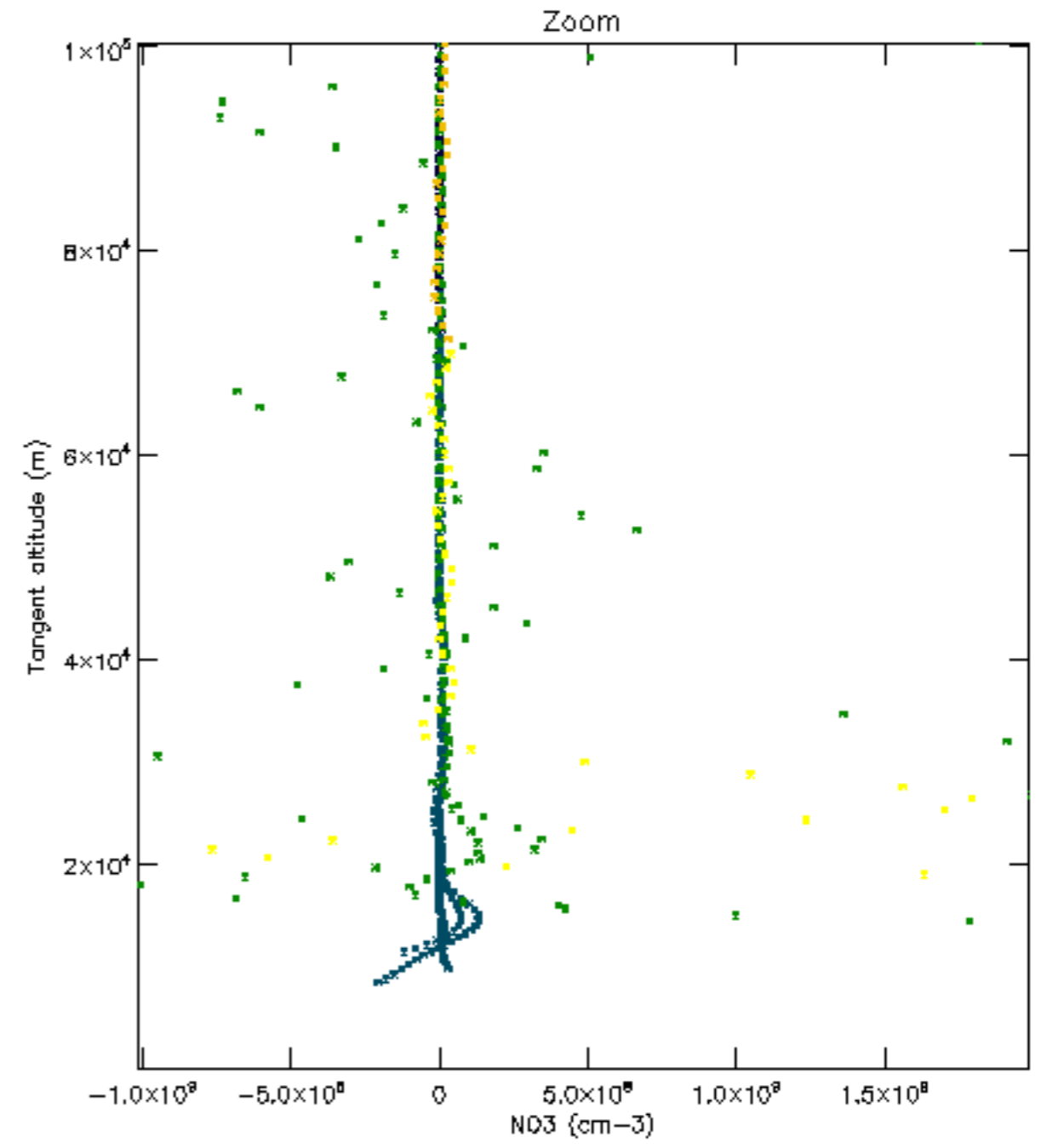
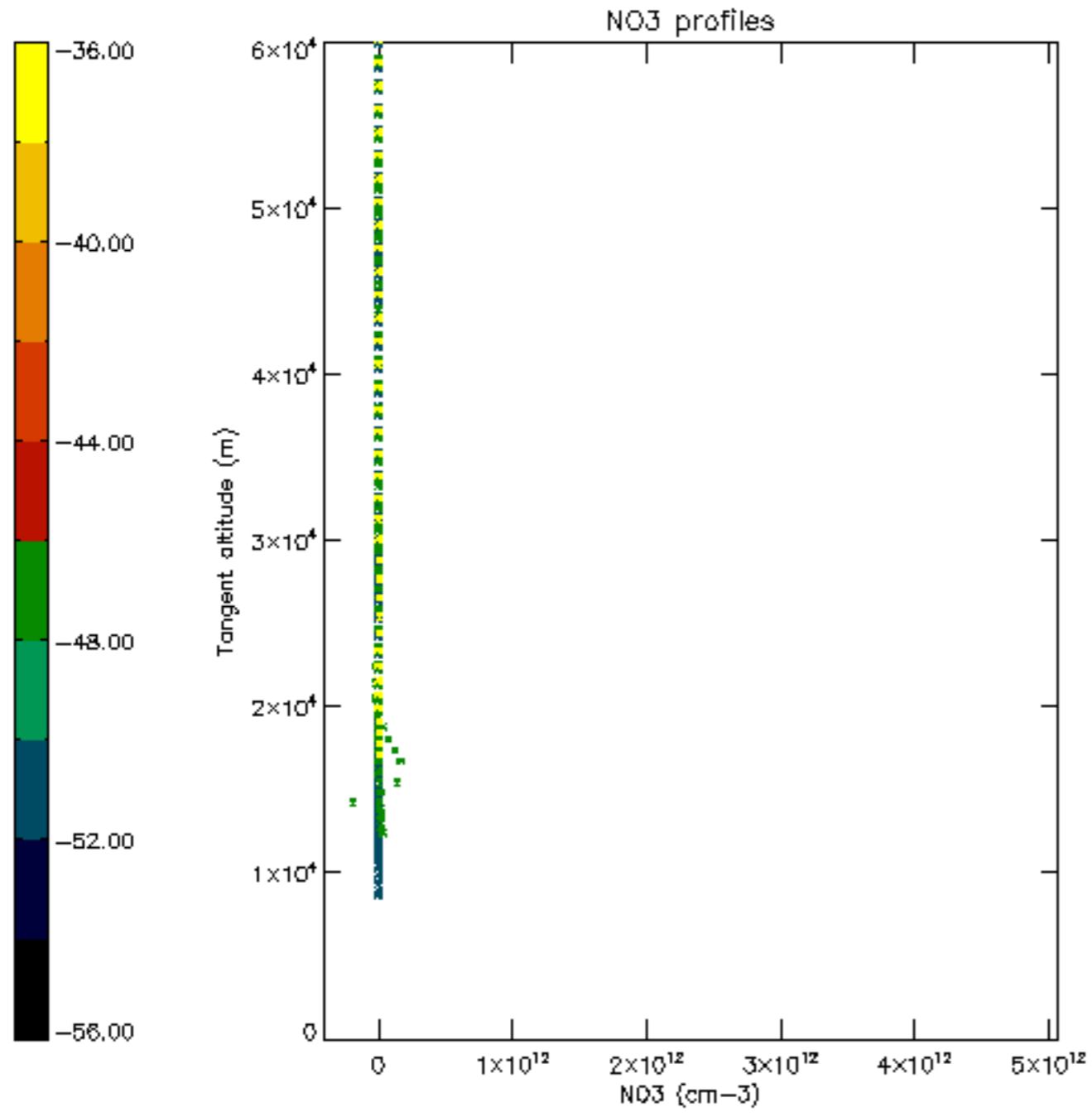


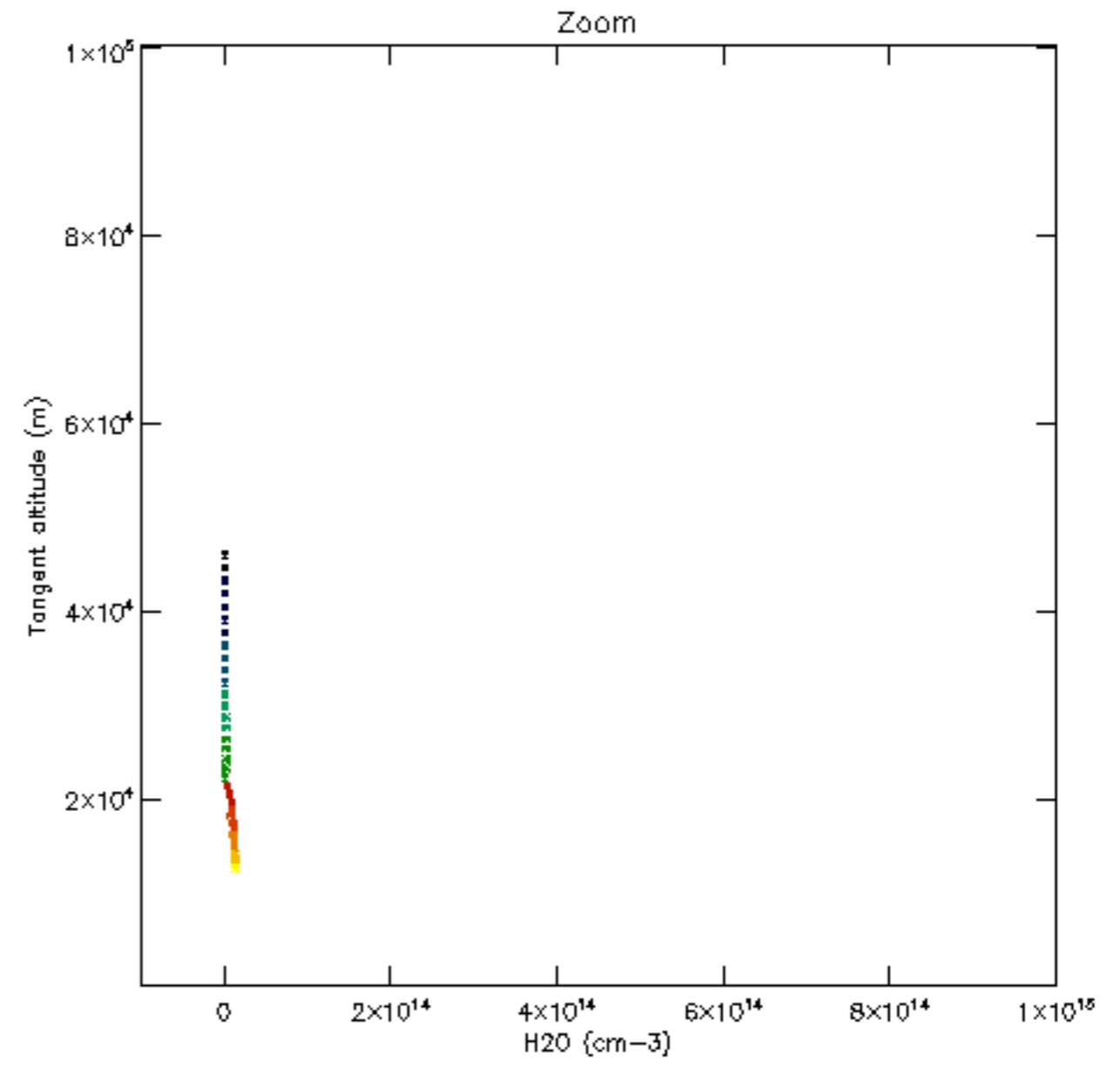
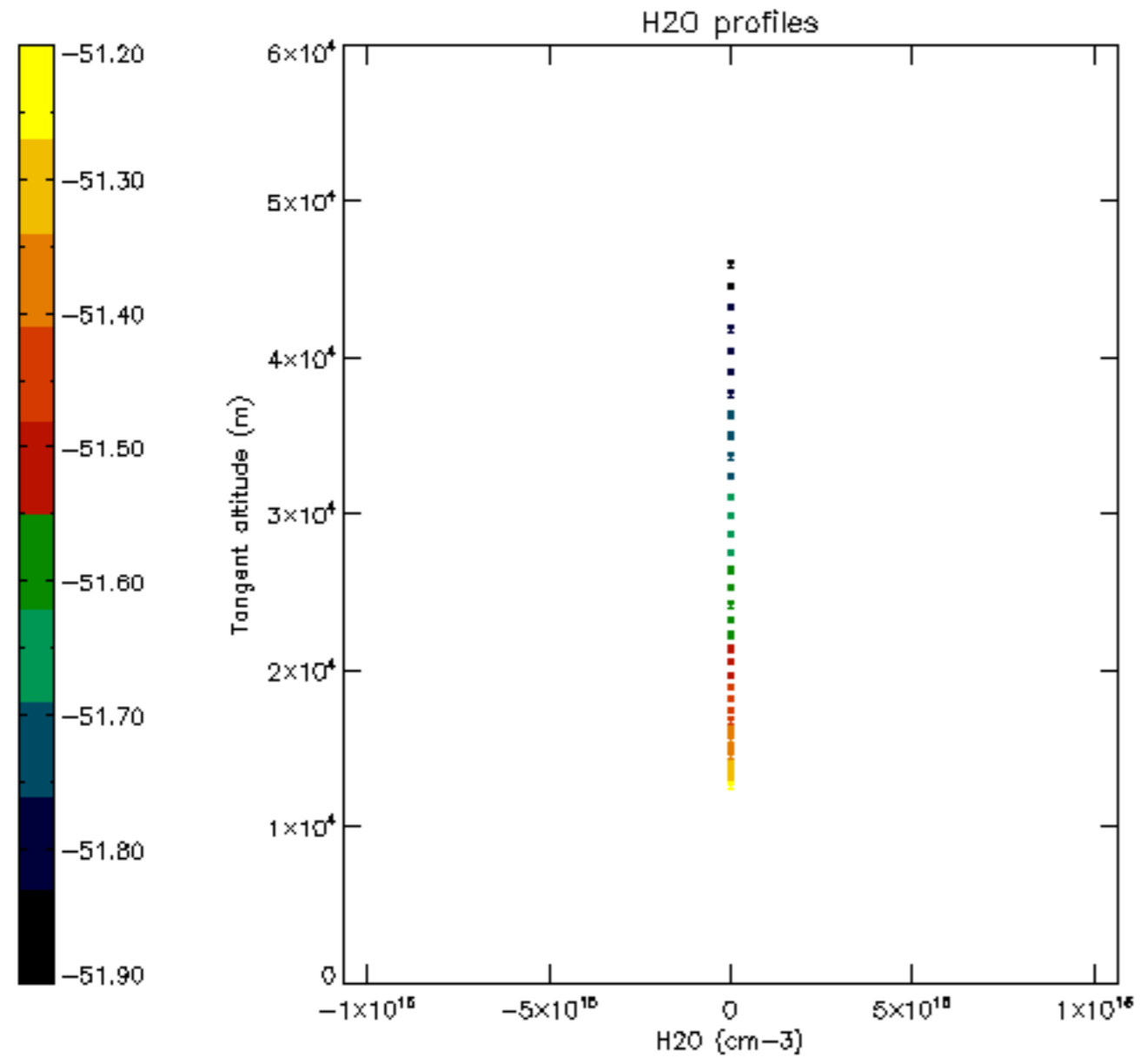


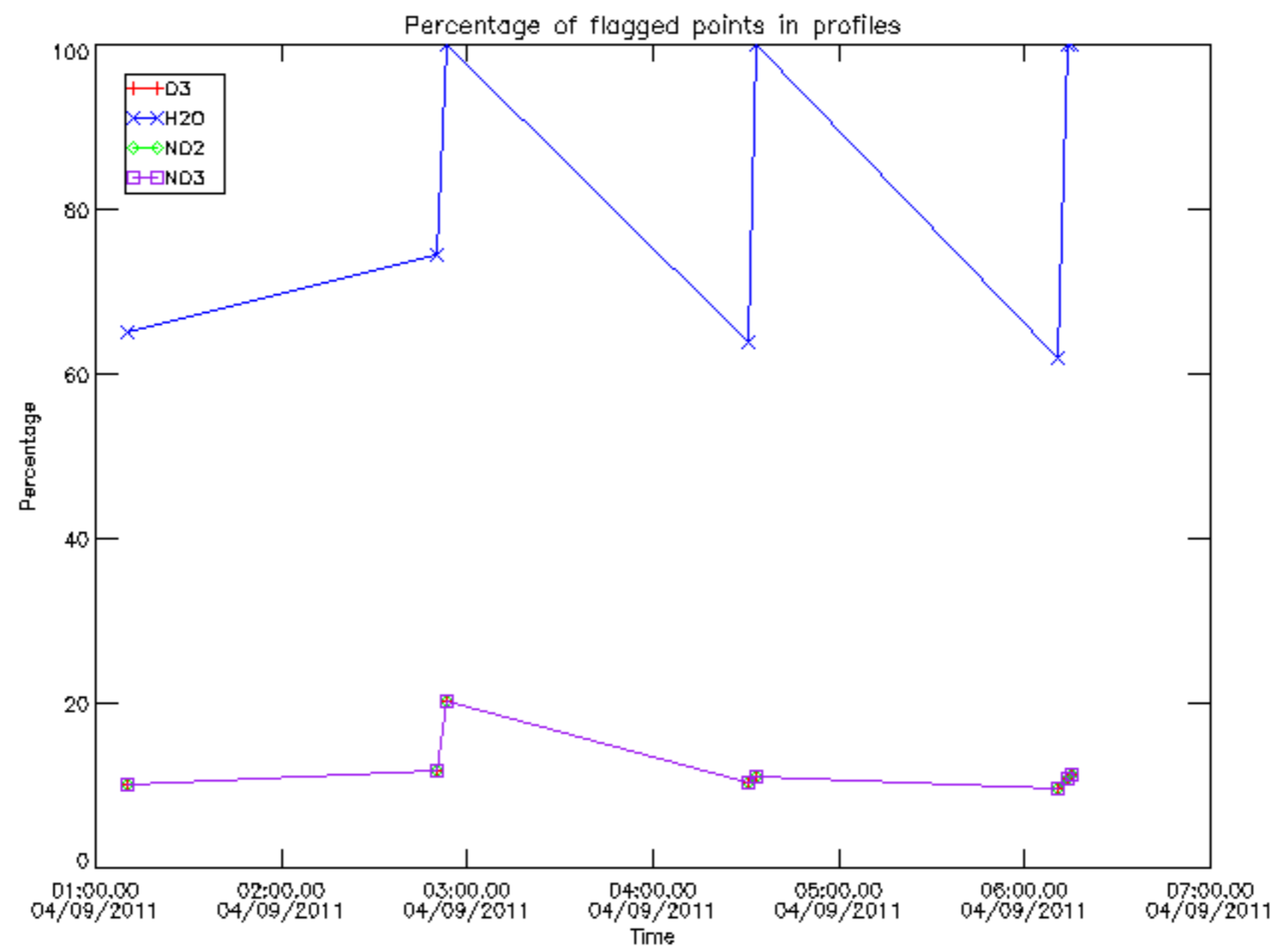




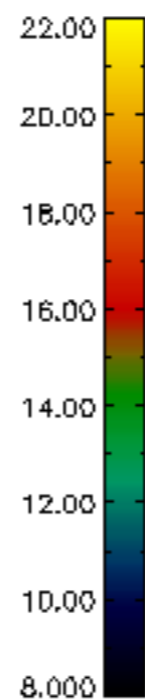
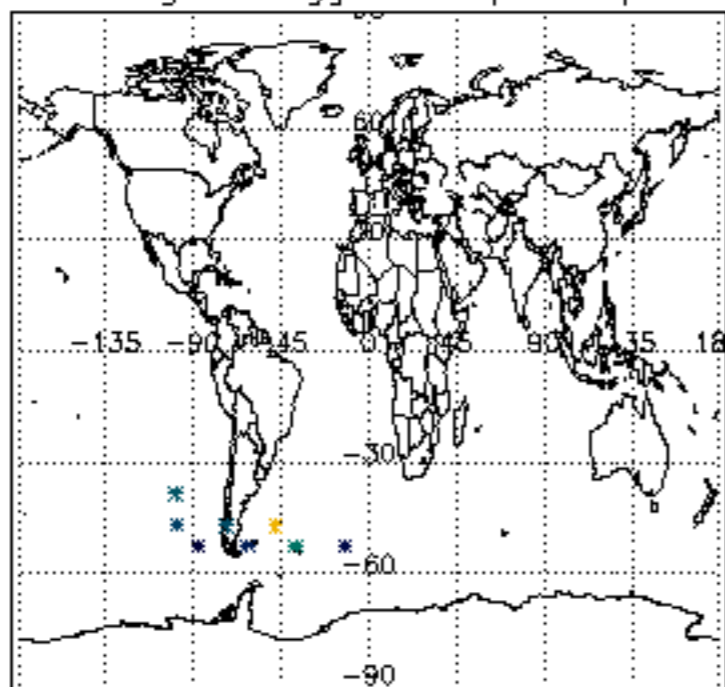




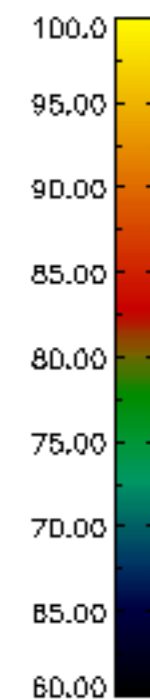
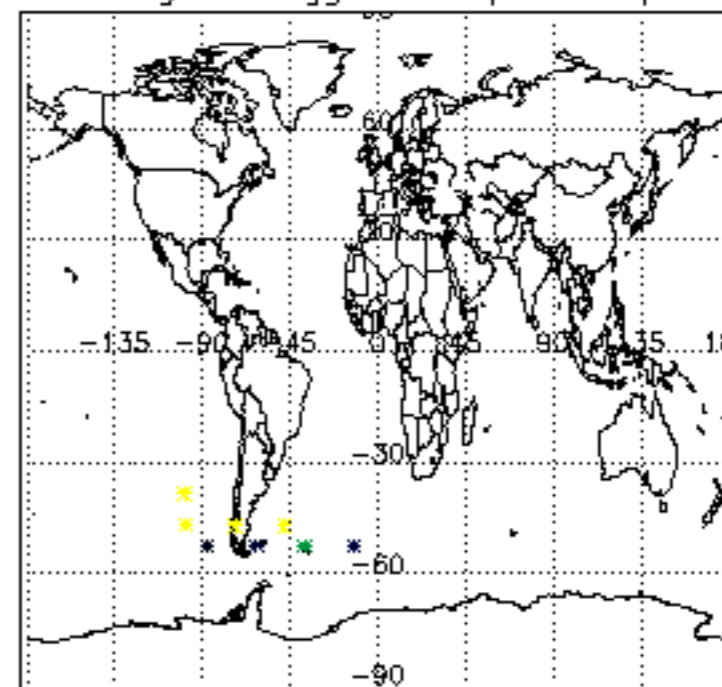




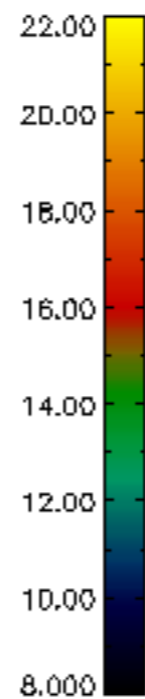
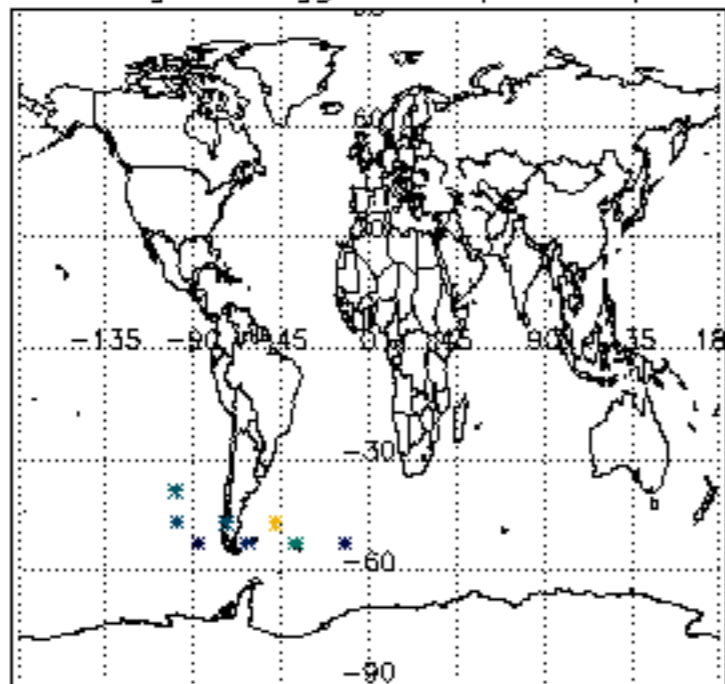
Percentage of flagged data per D3 profile



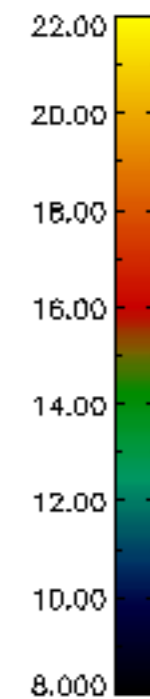
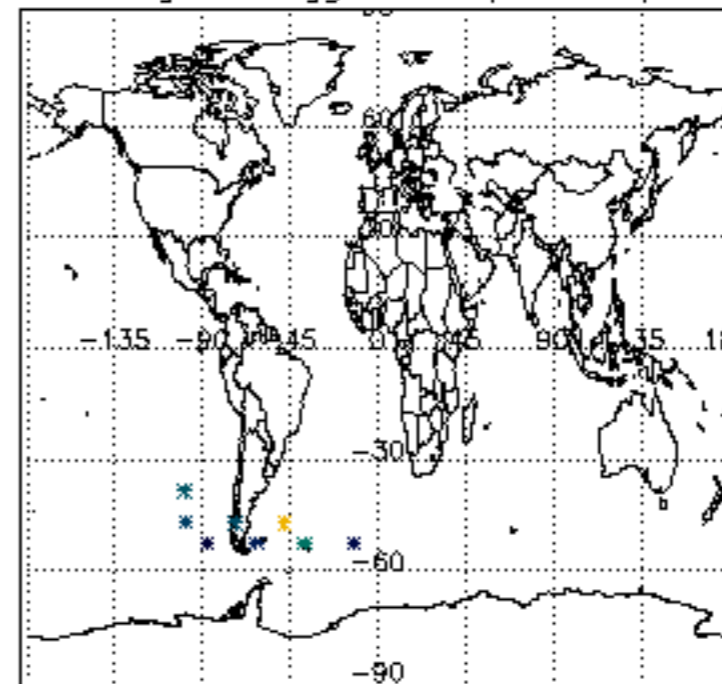
Percentage of flagged data per H2O profile



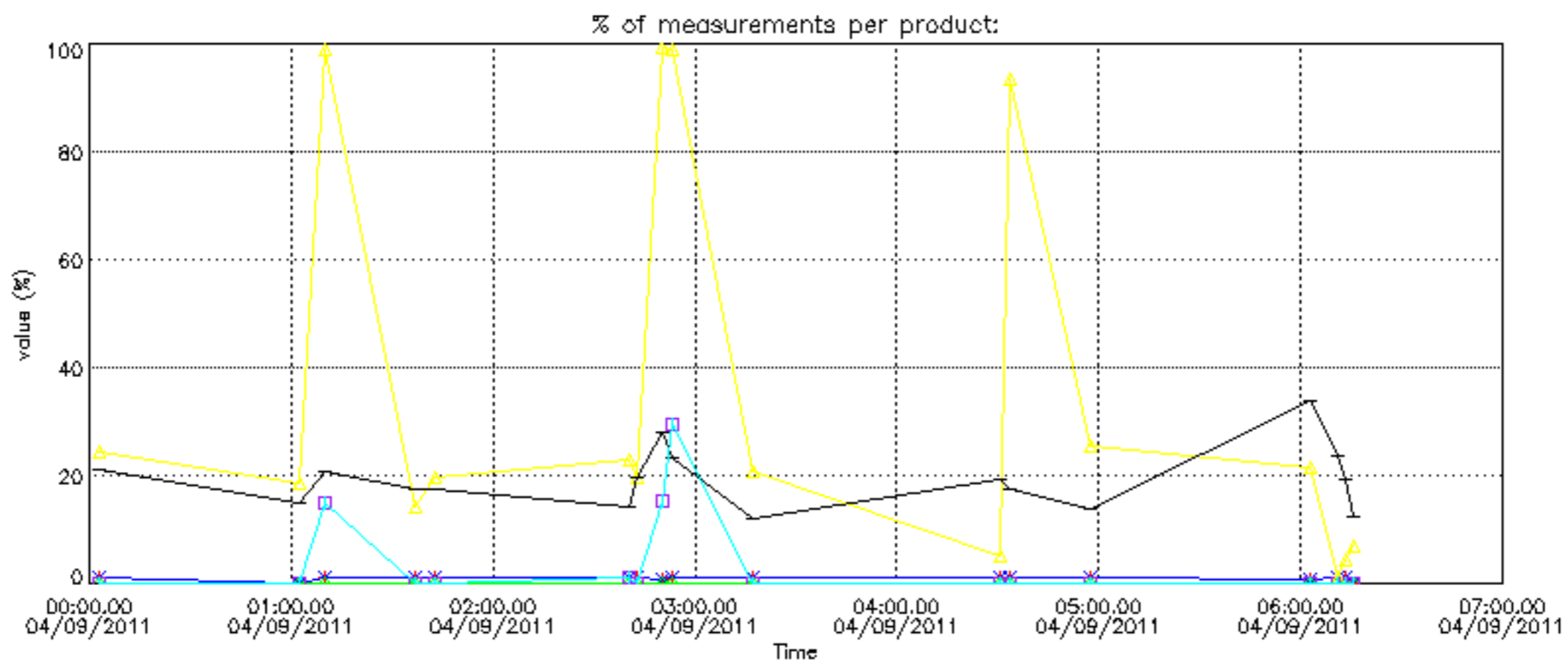
Percentage of flagged data per NO2 profile

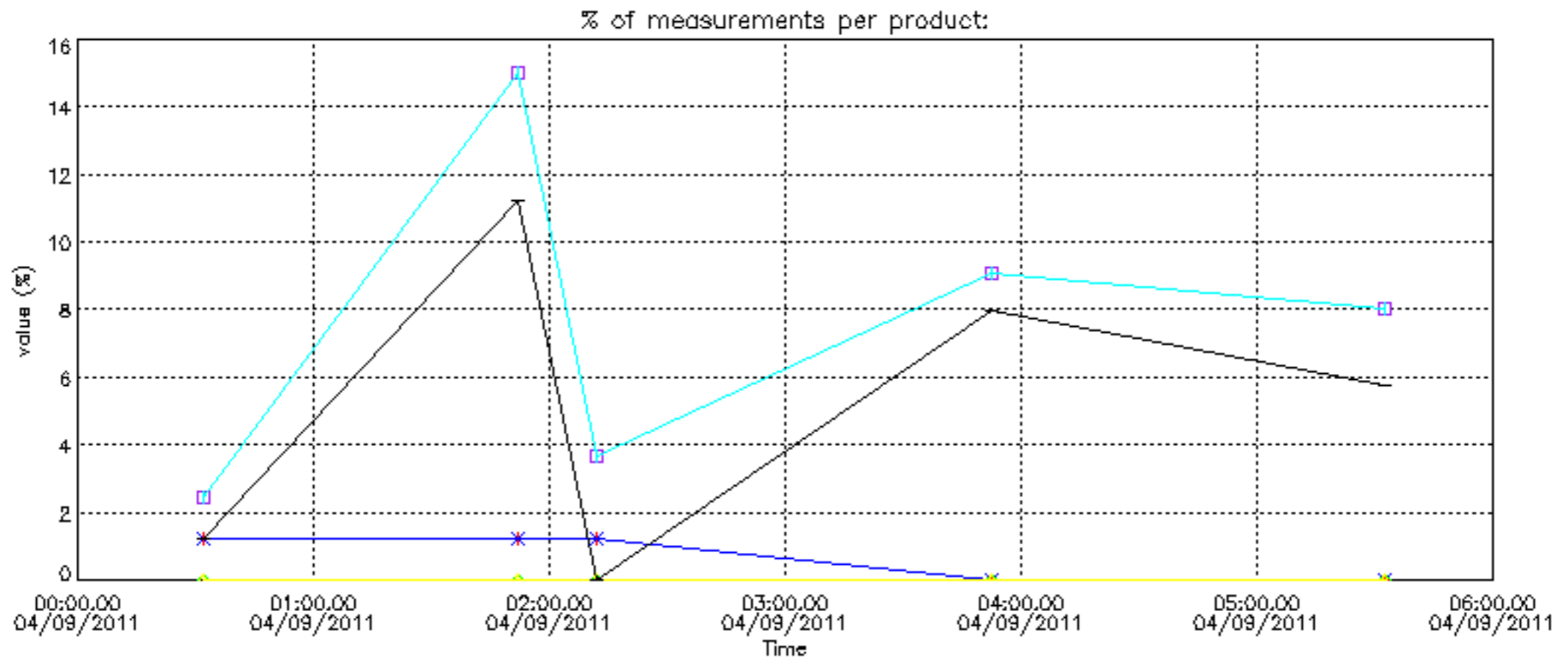


Percentage of flagged data per NO3 profile

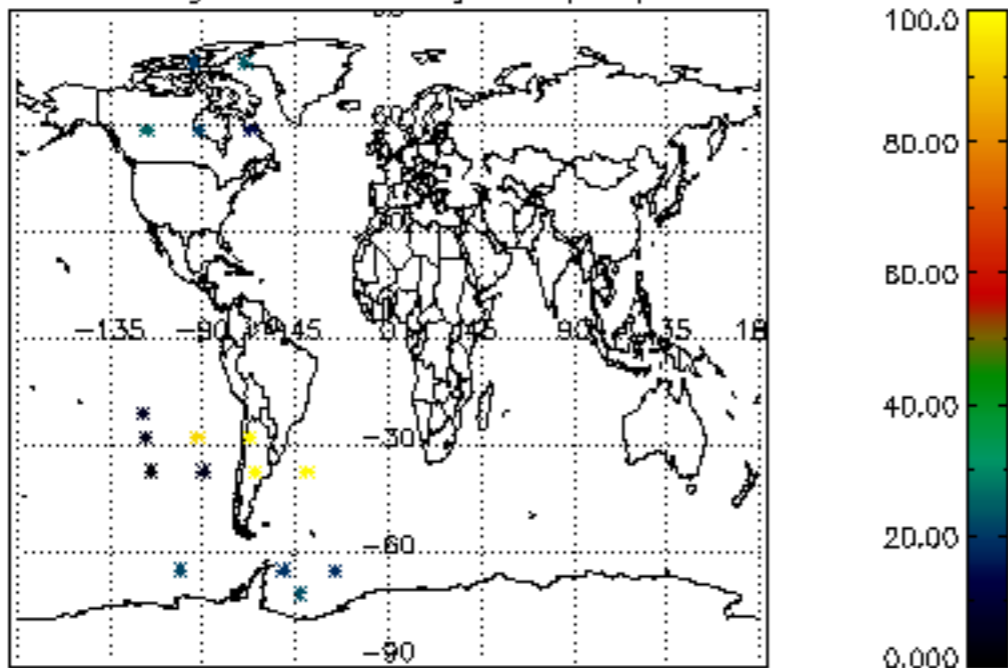




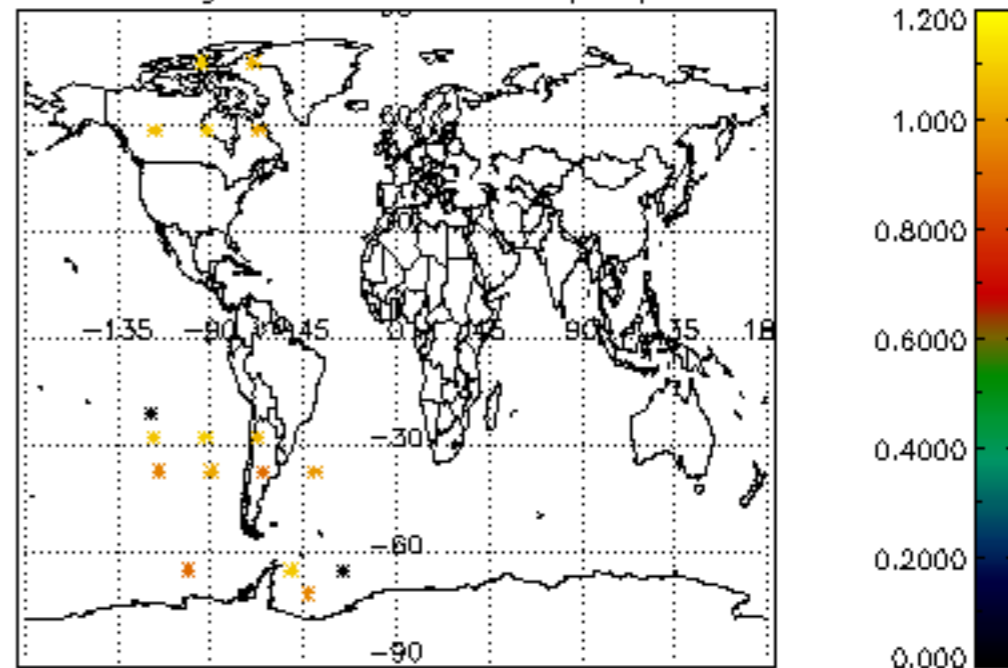




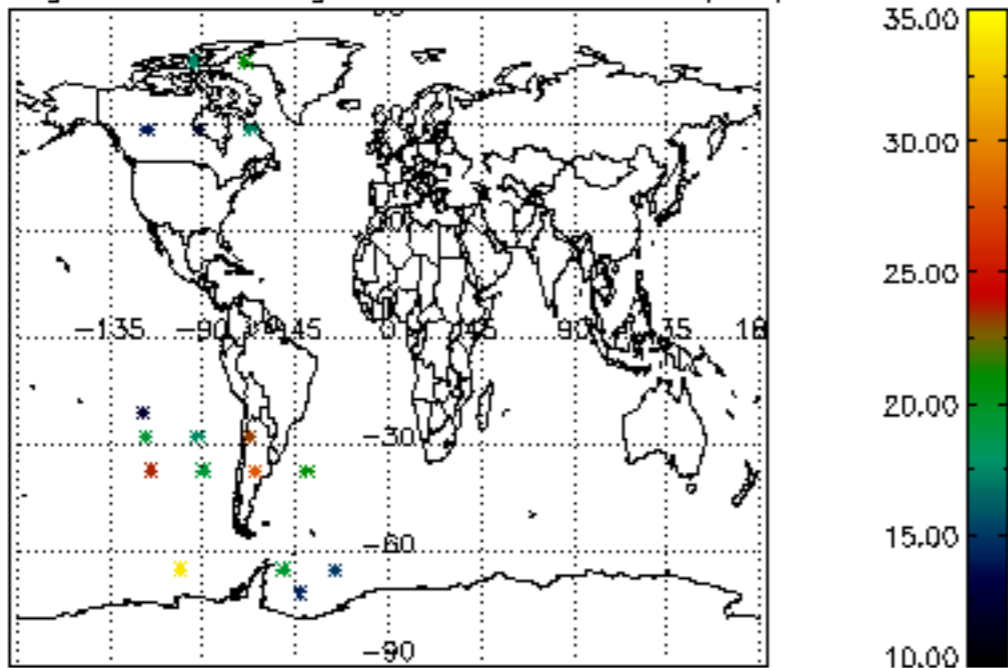
Percentage of cosmic ray hits per profile



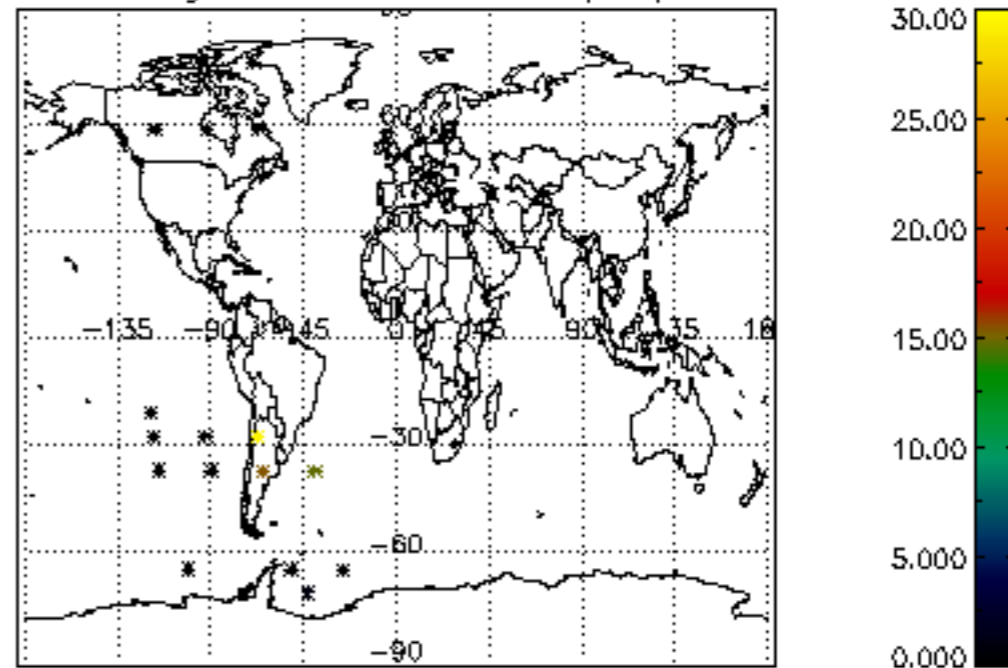
Percentage of datation errors per profile



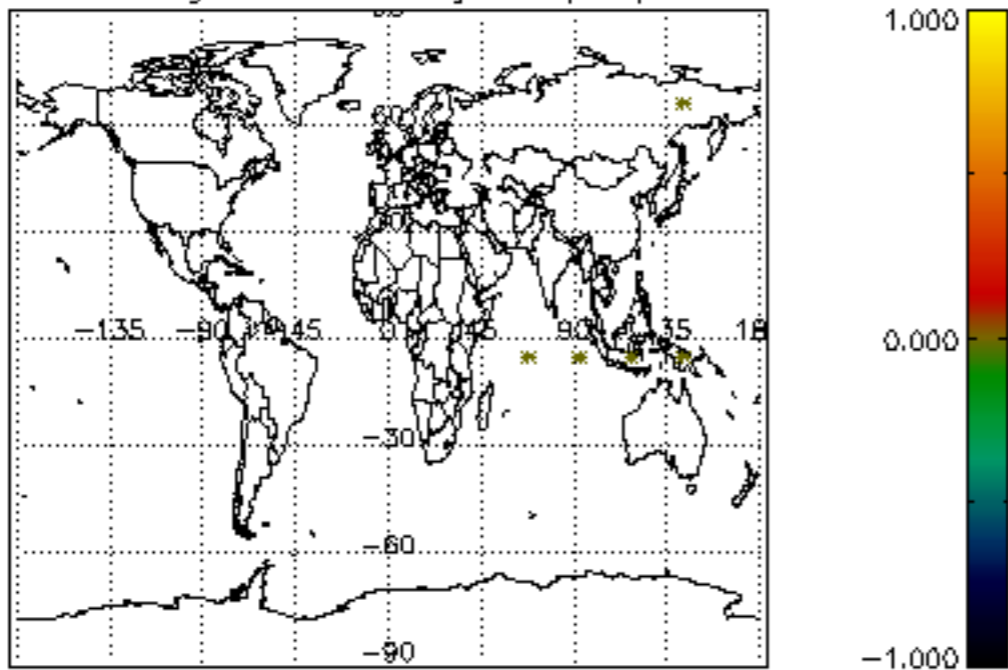
Percentage of star falling outside central band per profile



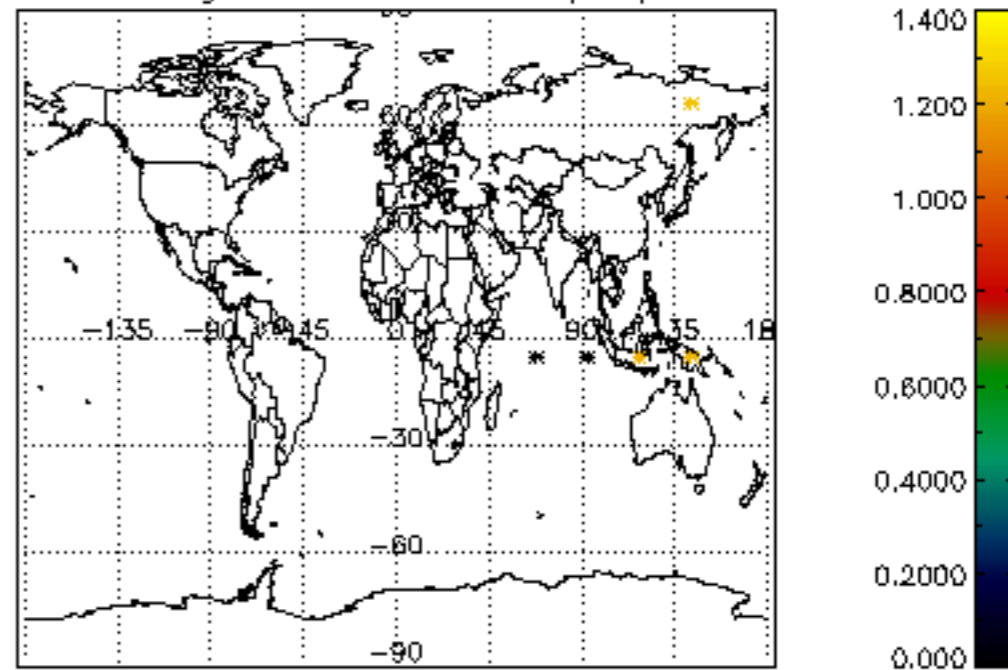
Percentage of saturation errors per profile



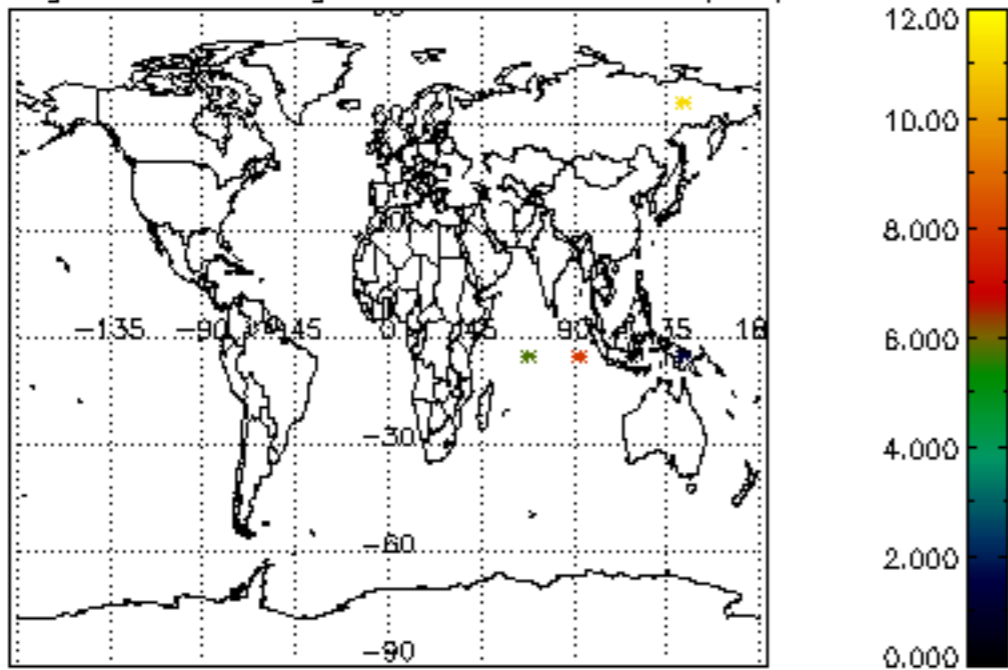
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

