

# 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	26APR2013 13:27:51
Data source version	GOMOS/6.01
Start time of products	27-10-2009 (27OCT2009 00:00:00)
Stop time of products	28-10-2009 (28OCT2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	17
Nb of prods with errors	0

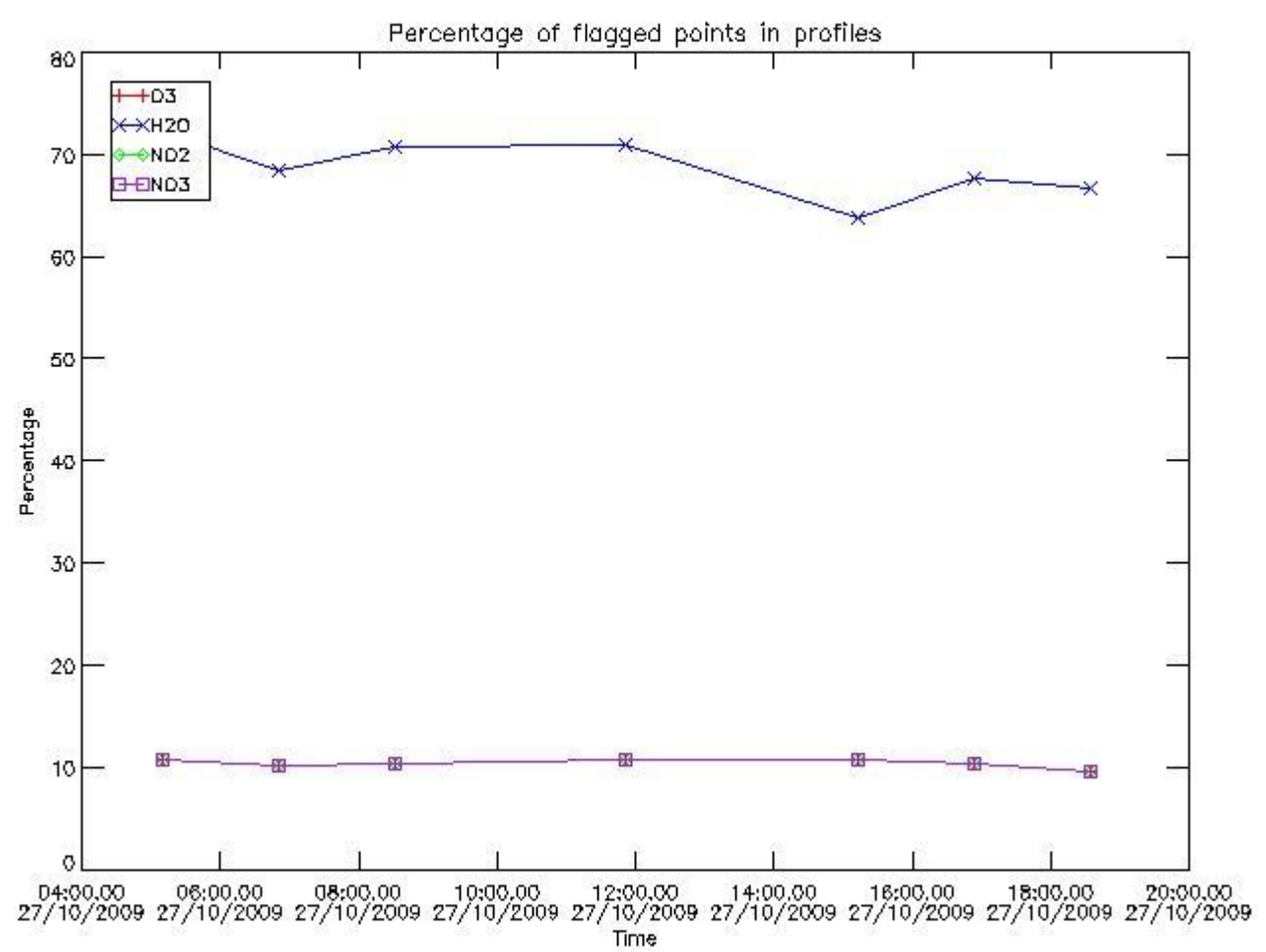
## 2. Summary of processed GOM\_NL\_\_2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20091027_022328_000000412083_00404_40037_6608.N1	27-OCT-2009 02:23:28	Bright	40.500	173	4Bet Tri	3.0040	8900.0	81	40037	No
2	GOM_NL__2PRFIN20091027_022528_000000422083_00404_40037_6609.N1	27-OCT-2009 02:25:28	Bright	42.000	73	57Gam1And	2.2600	13100.	84	40037	No
3	GOM_NL__2PRFIN20091027_050946_000000472083_00406_40039_6629.N1	27-OCT-2009 05:09:46	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	40039	No
4	GOM_NL__2PRFIN20091027_065023_000000492083_00407_40040_6640.N1	27-OCT-2009 06:50:23	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	40040	No
5	GOM_NL__2PRFIN20091027_083100_000000482083_00408_40041_6651.N1	27-OCT-2009 08:31:00	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	40041	No
6	GOM_NL__2PRFIN20091027_104625_000000412083_00409_40042_6682.N1	27-OCT-2009 10:46:25	Bright	40.500	173	4Bet Tri	3.0040	8900.0	81	40042	No
7	GOM_NL__2PRFIN20091027_104825_000000422083_00409_40042_6683.N1	27-OCT-2009 10:48:25	Bright	42.000	73	57Gam1And	2.2600	13100.	84	40042	No
8	GOM_NL__2PRFIN20091027_115213_000000472083_00410_40043_6693.N1	27-OCT-2009 11:52:13	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	40043	No
9	GOM_NL__2PRFIN20091027_140736_000000082083_00411_40044_6704.N1	27-OCT-2009 14:07:36	Straylight	8.0000	173	4Bet Tri	3.0040	8900.0	16	40044	No
10	GOM_NL__2PRFIN20091027_140937_000000382083_00411_40044_6705.N1	27-OCT-2009 14:09:37	Bright	38.000	73	57Gam1And	2.2600	13100.	76	40044	No
11	GOM_NL__2PRFIN20091027_151326_000000472083_00412_40045_6738.N1	27-OCT-2009 15:13:26	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	40045	No
12	GOM_NL__2PRFIN20091027_154812_000000402083_00412_40045_6739.N1	27-OCT-2009 15:48:12	Bright	39.500	173	4Bet Tri	3.0040	8900.0	79	40045	No
13	GOM_NL__2PRFIN20091027_155012_000000422083_00412_40045_6740.N1	27-OCT-2009 15:50:12	Bright	41.500	73	57Gam1And	2.2600	13100.	83	40045	No
14	GOM_NL__2PRFIN20091027_165403_000000482083_00413_40046_6757.N1	27-OCT-2009 16:54:03	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	40046	No
15	GOM_NL__2PRFIN20091027_183439_000000532083_00414_40047_6768.N1	27-OCT-2009 18:34:39	Dark	52.500	2	Alp Car	-0.73600	7000.0	105	40047	No
16	GOM_NL__2PRFIN20091027_190923_000000602083_00414_40047_6769.N1	27-OCT-2009 19:09:23	Bright	60.000	173	4Bet Tri	3.0040	8900.0	120	40047	No
17	GOM_NL__2PRFIN20091027_191123_000000402083_00414_40047_6770.N1	27-OCT-2009 19:11:23	Bright	39.500	73	57Gam1And	2.2600	13100.	79	40047	No

## 3. Quality information per product

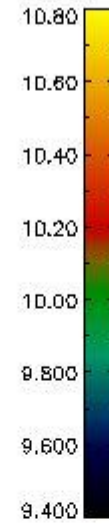
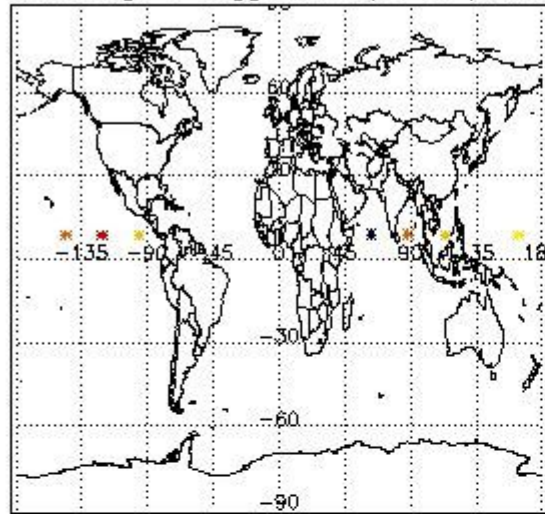
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

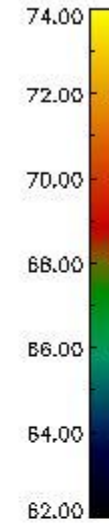
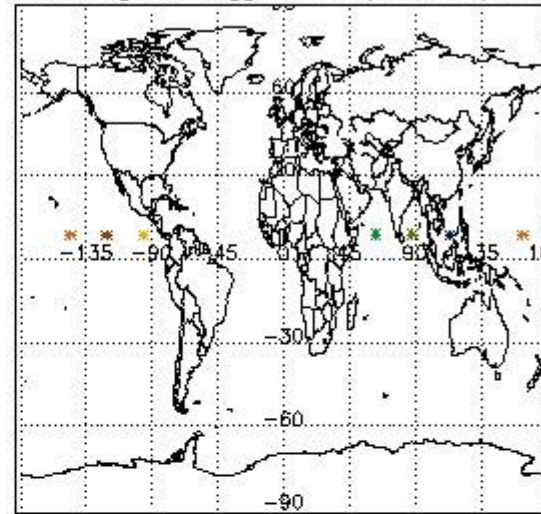


3.2 Plot quality information per product (world map)

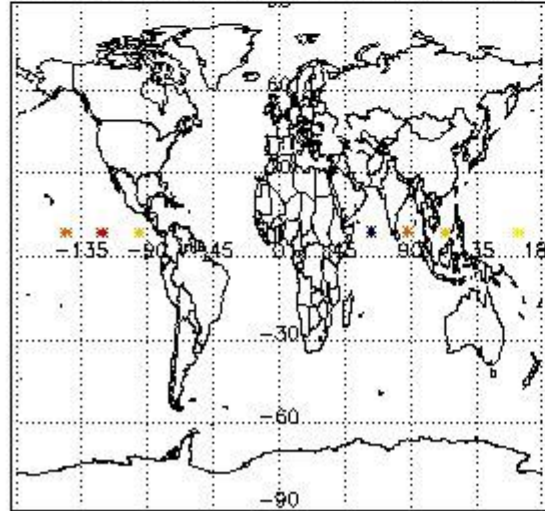
Percentage of flagged data per O3 profile



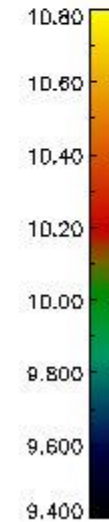
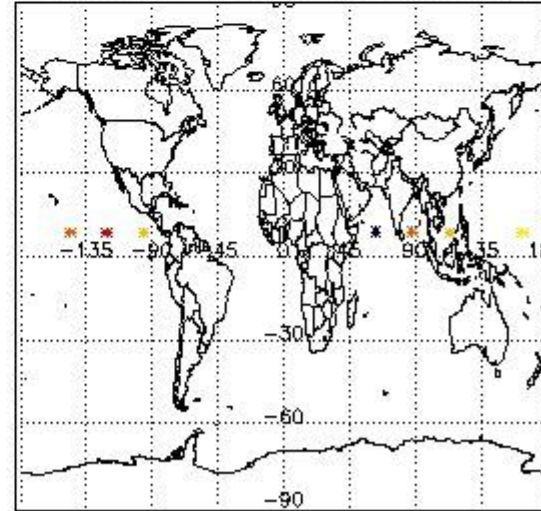
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

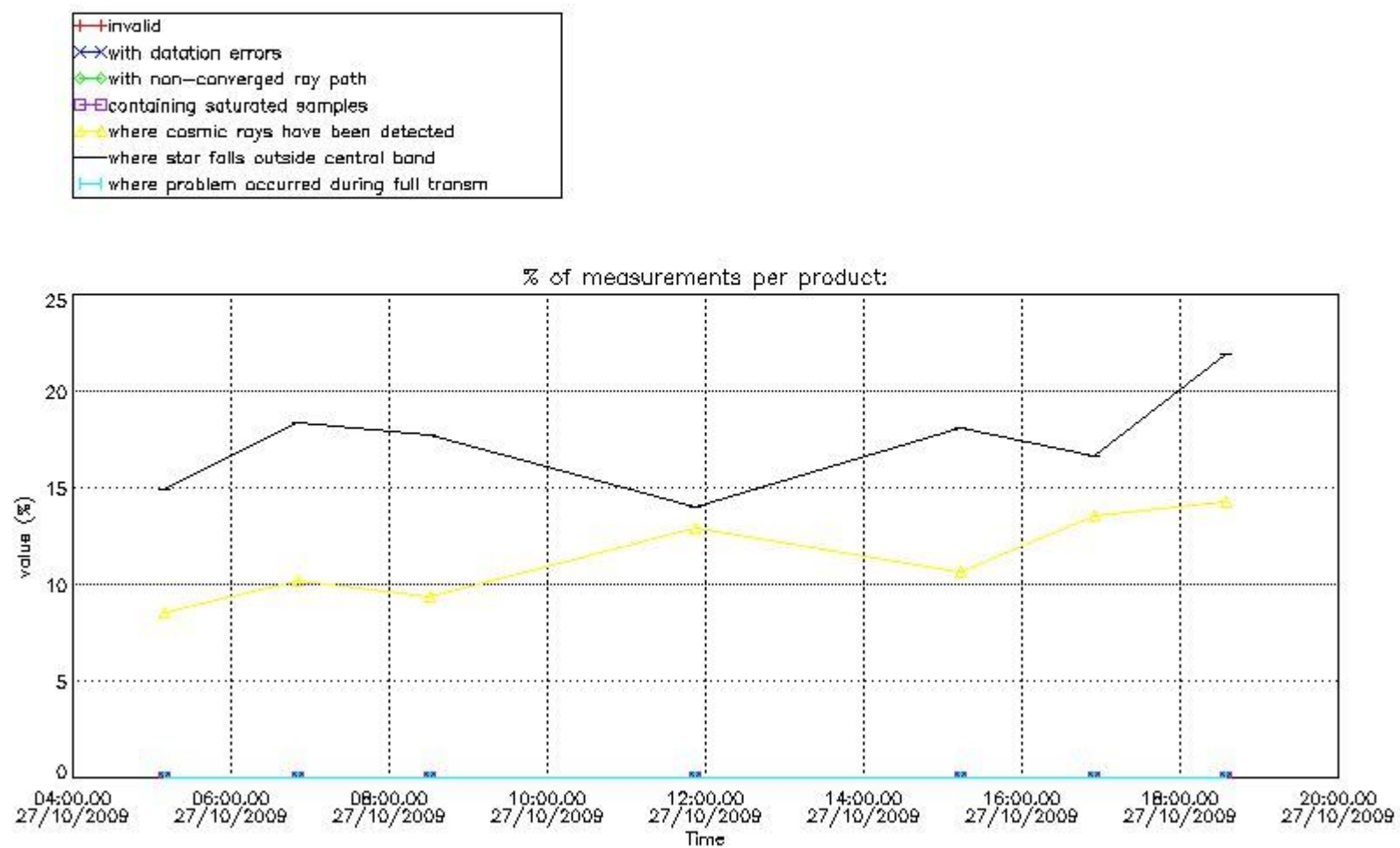


#### 4. Level 1 quality information per product

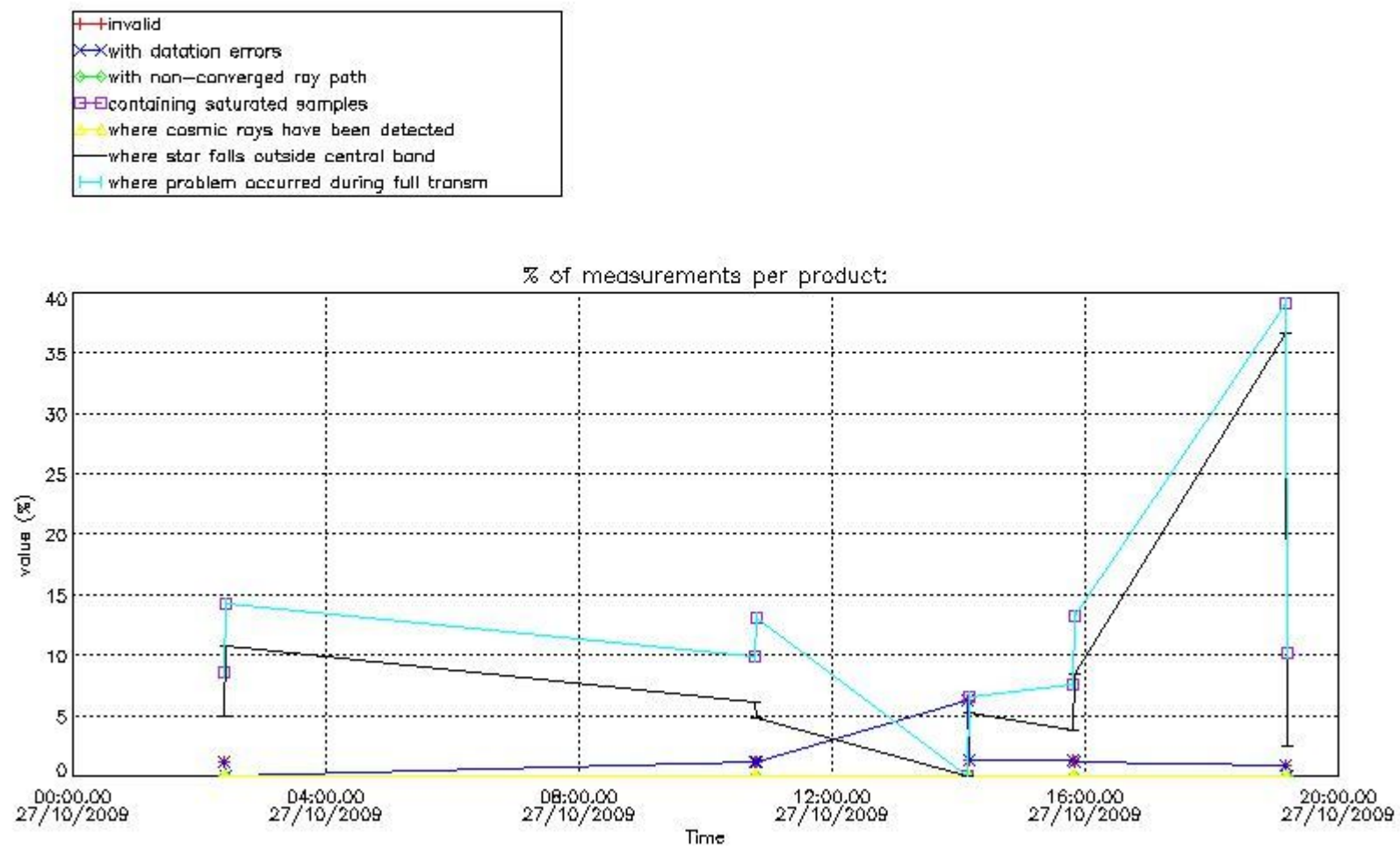
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

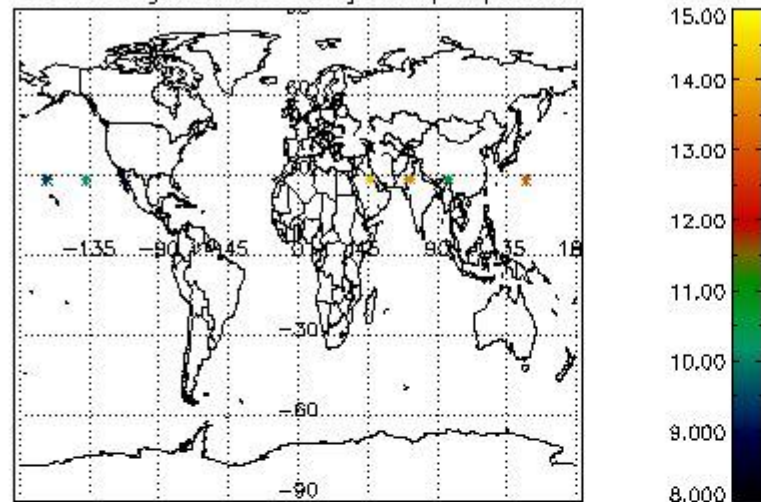


4.2 Plot quality information per product coming from level 1b processing (world map)

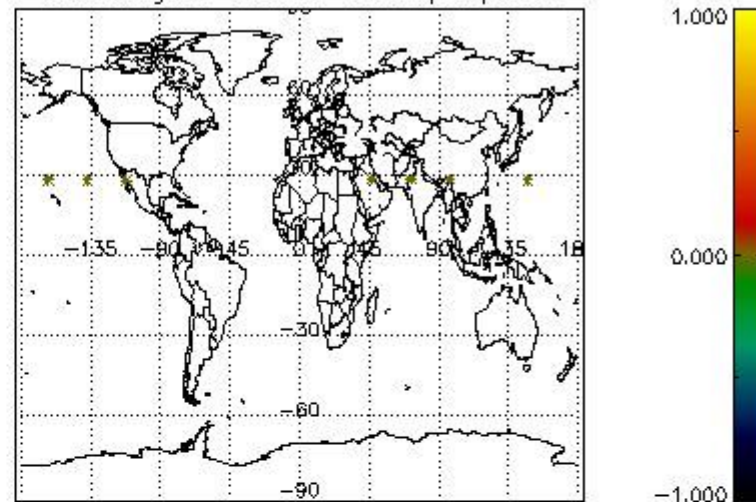
4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



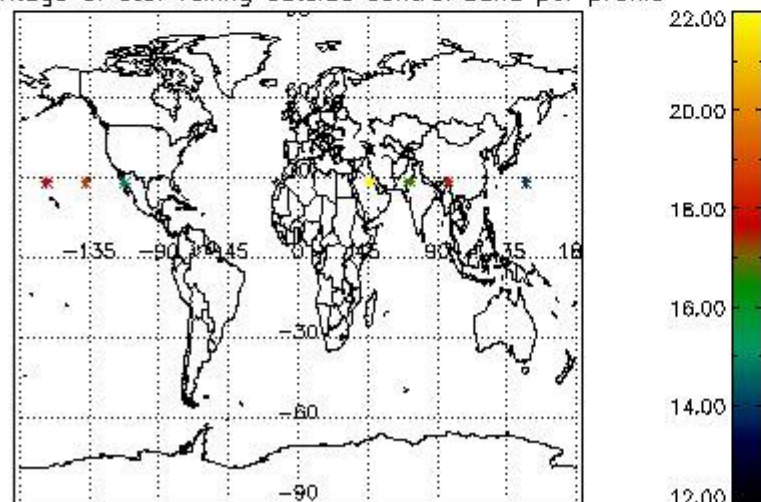
Percentage of cosmic ray hits per profile



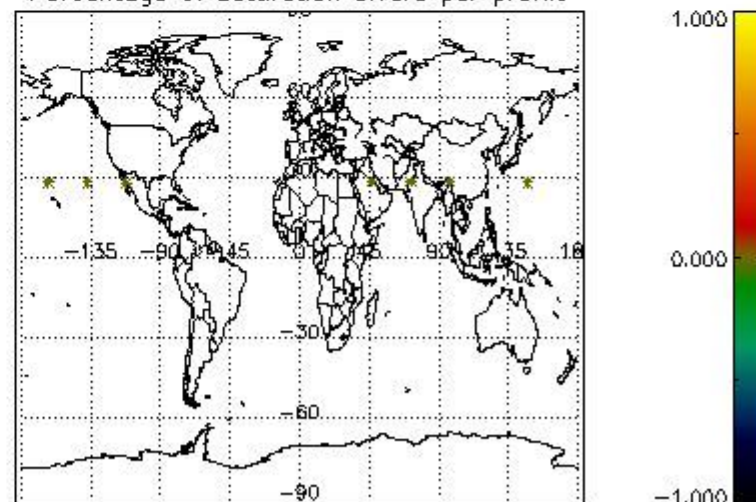
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

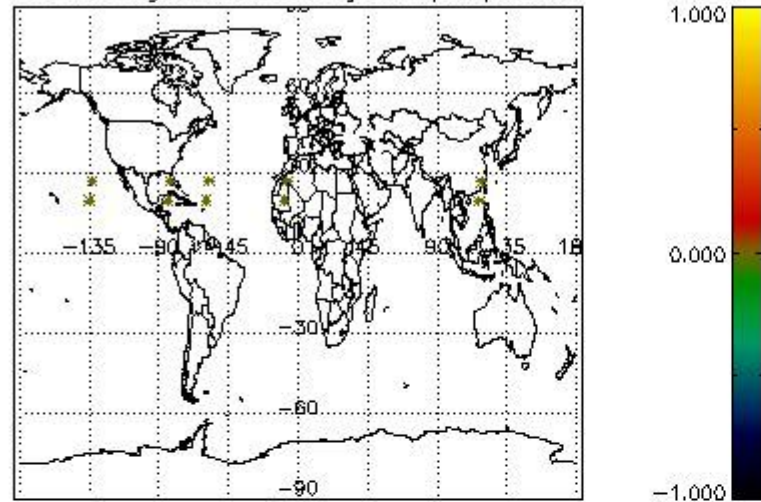


Percentage of saturation errors per profile

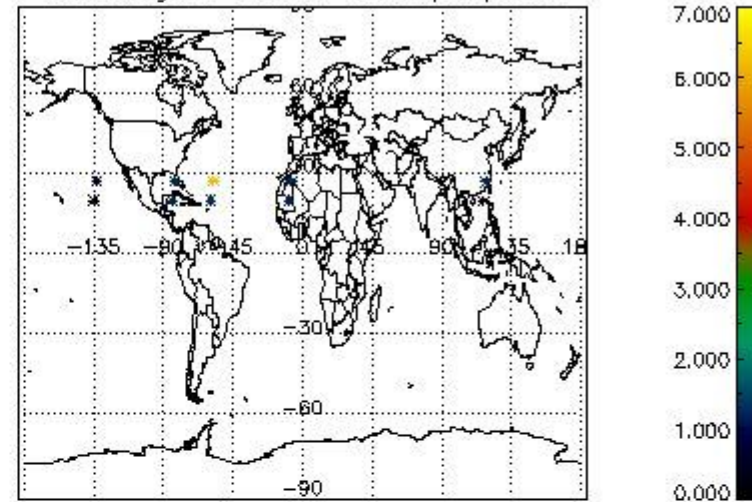


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

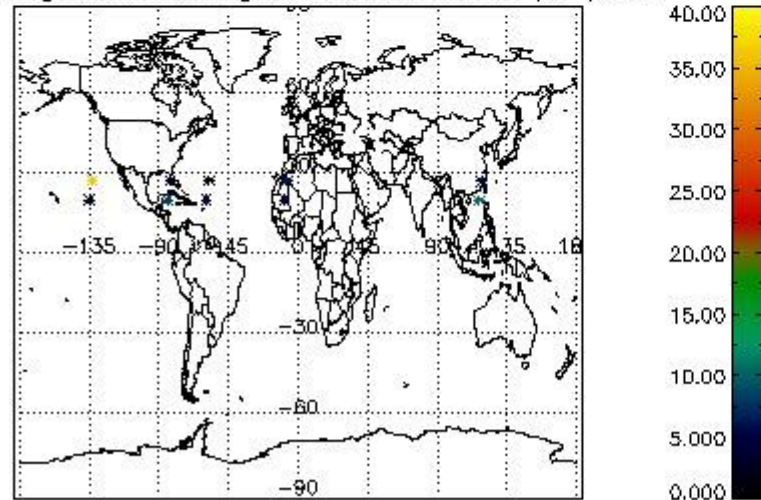
Percentage of cosmic ray hits per profile



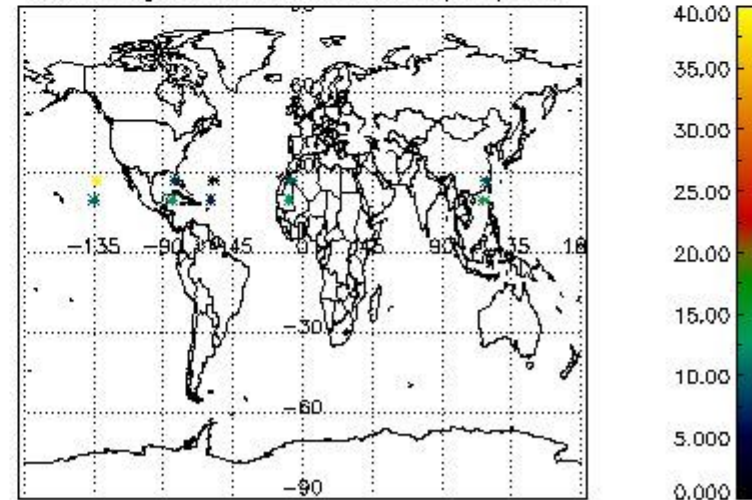
Percentage of datation errors per profile



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.

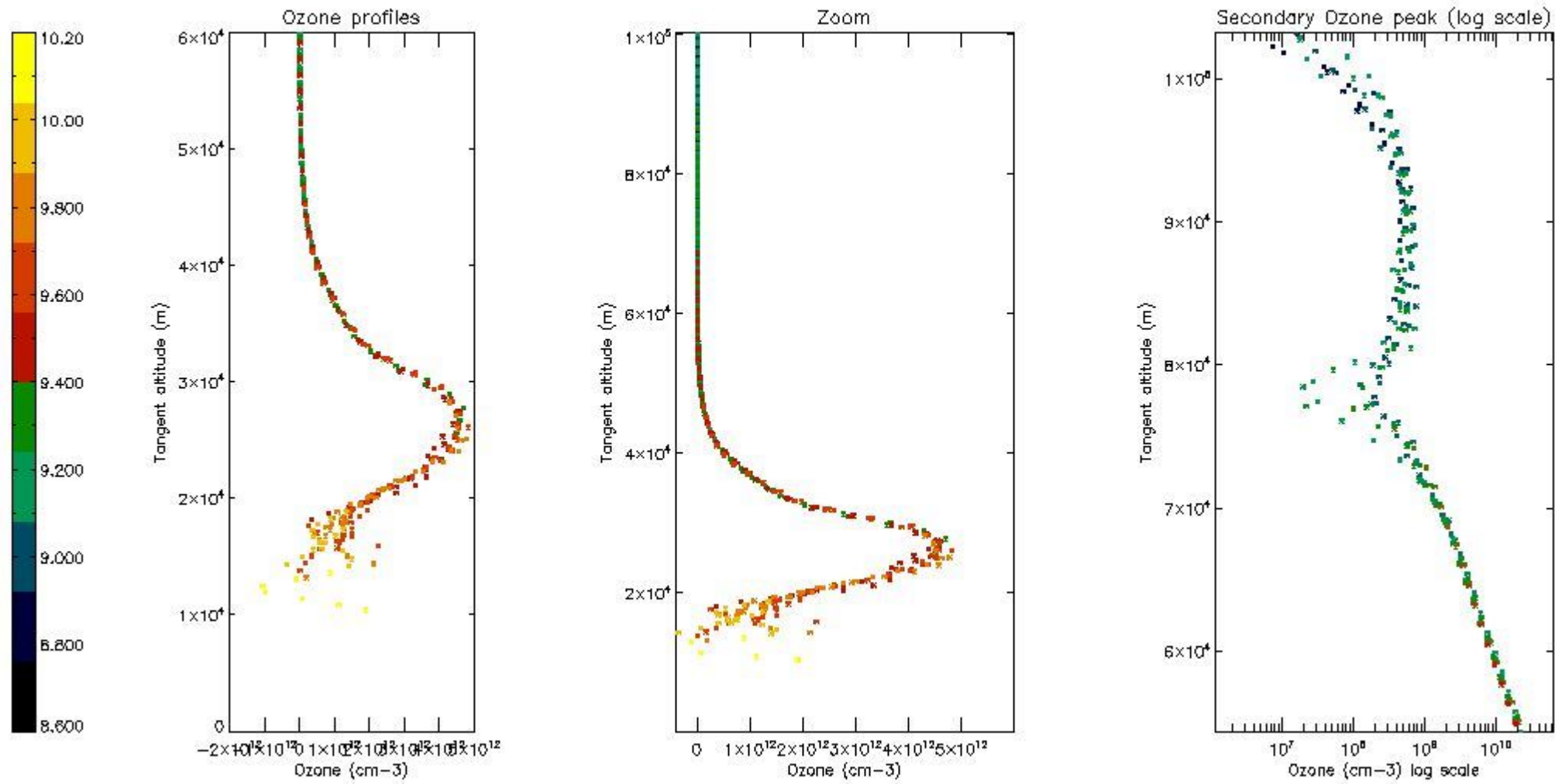
Criteria	% of total production
All STD	48
STD < 20	37



STD < 10	33
STD < 5	25

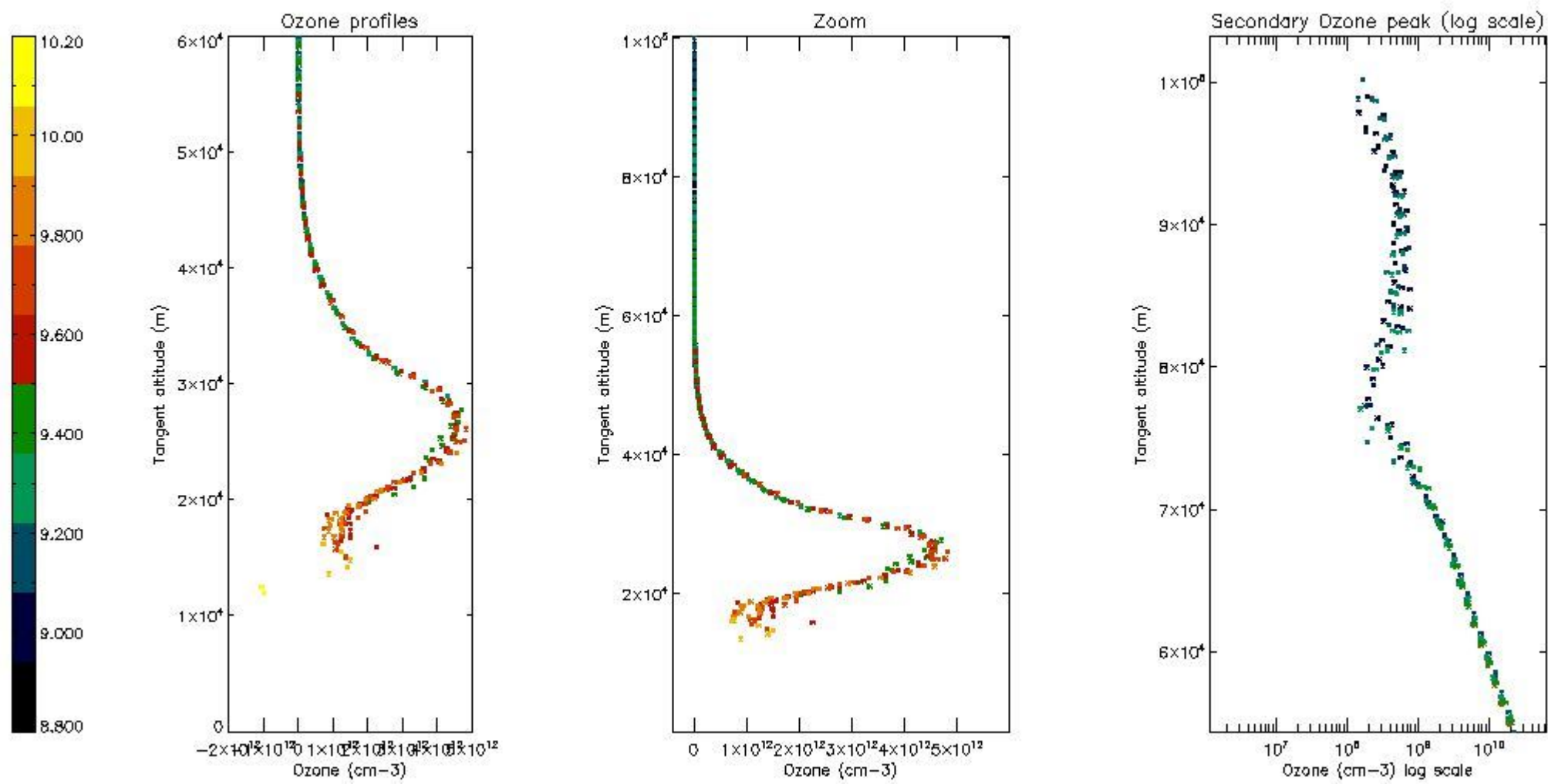
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



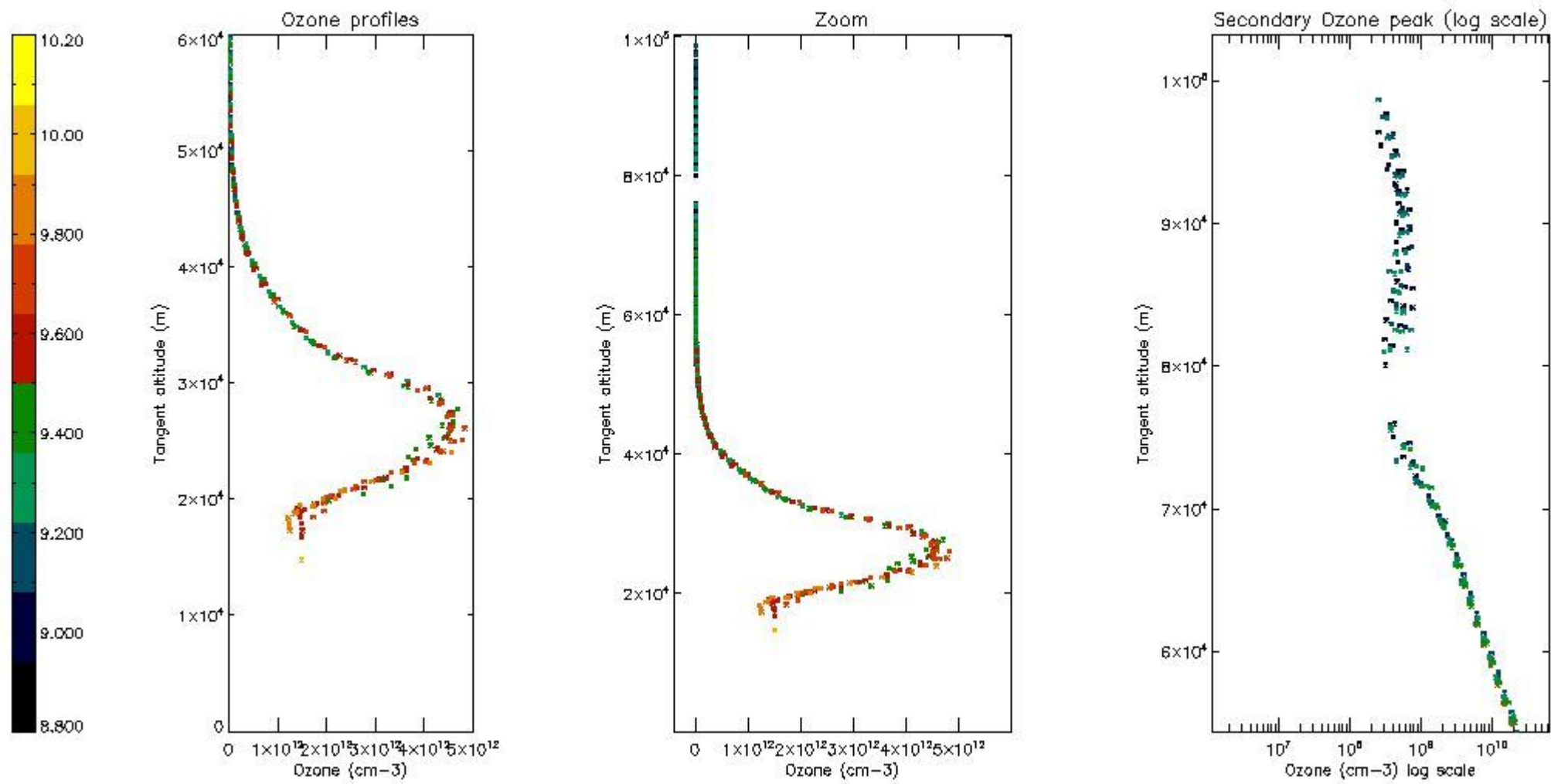
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



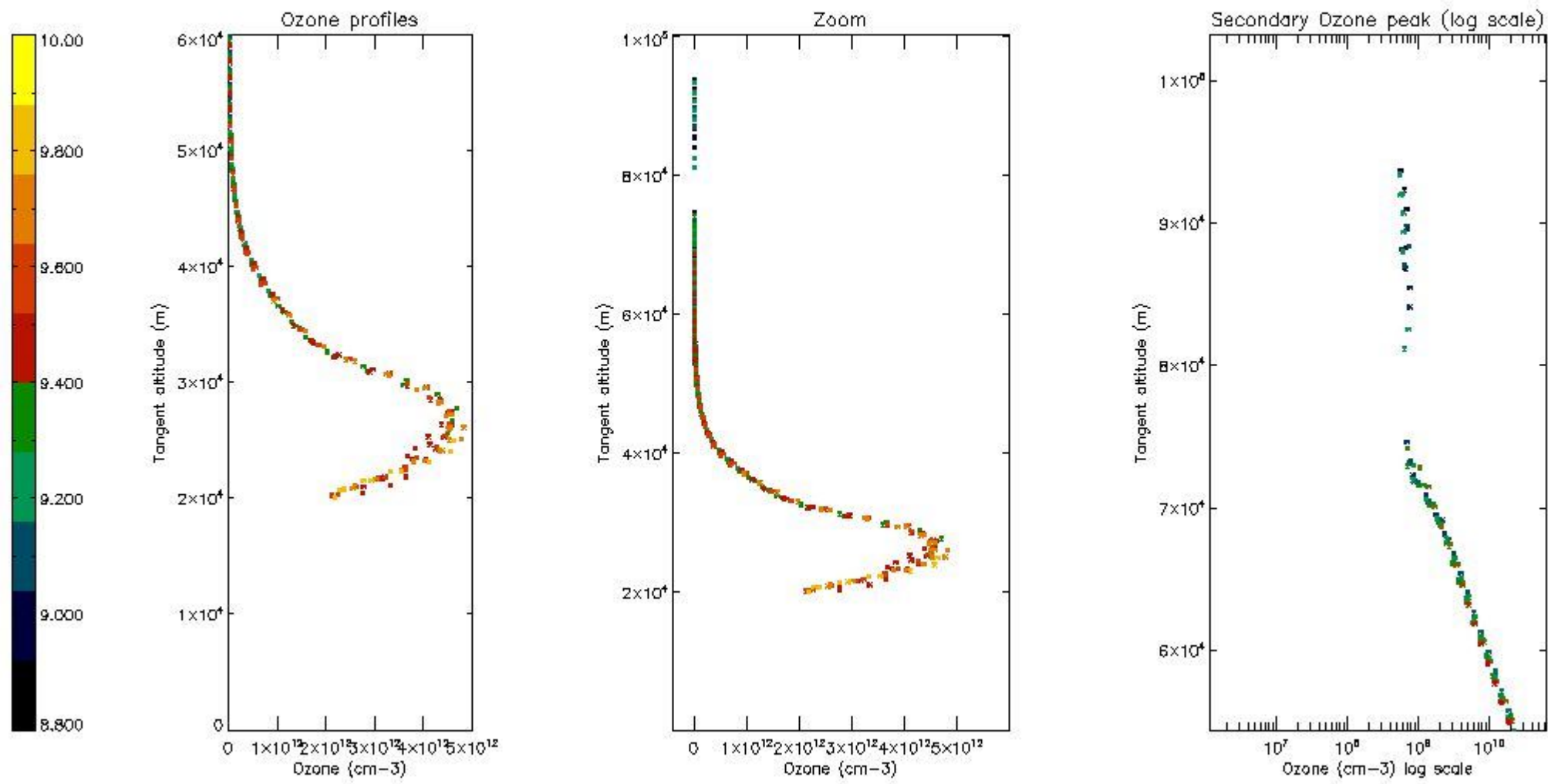
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



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

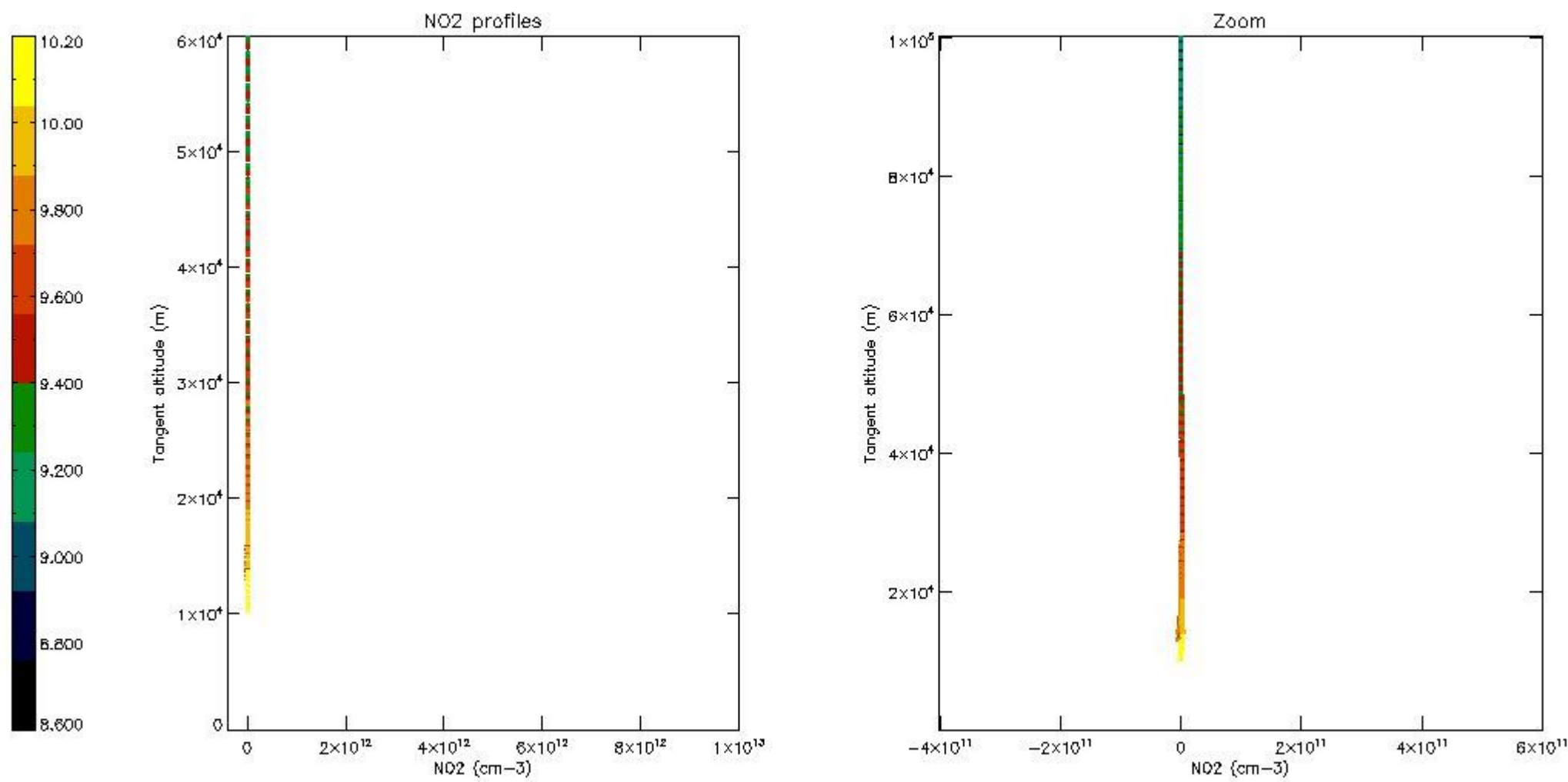
The colorbar represents the latitude.



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

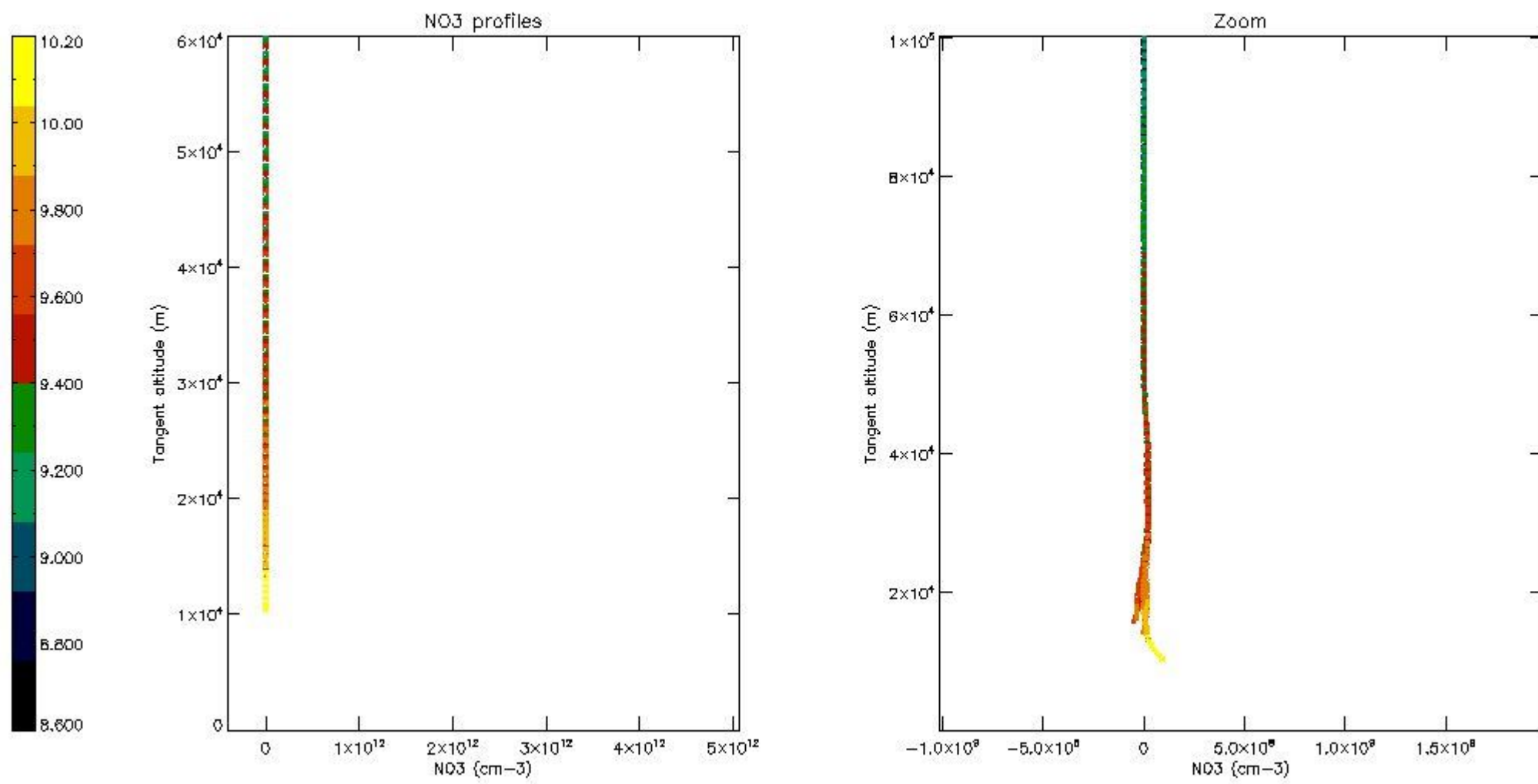
The colorbar represents the latitude.





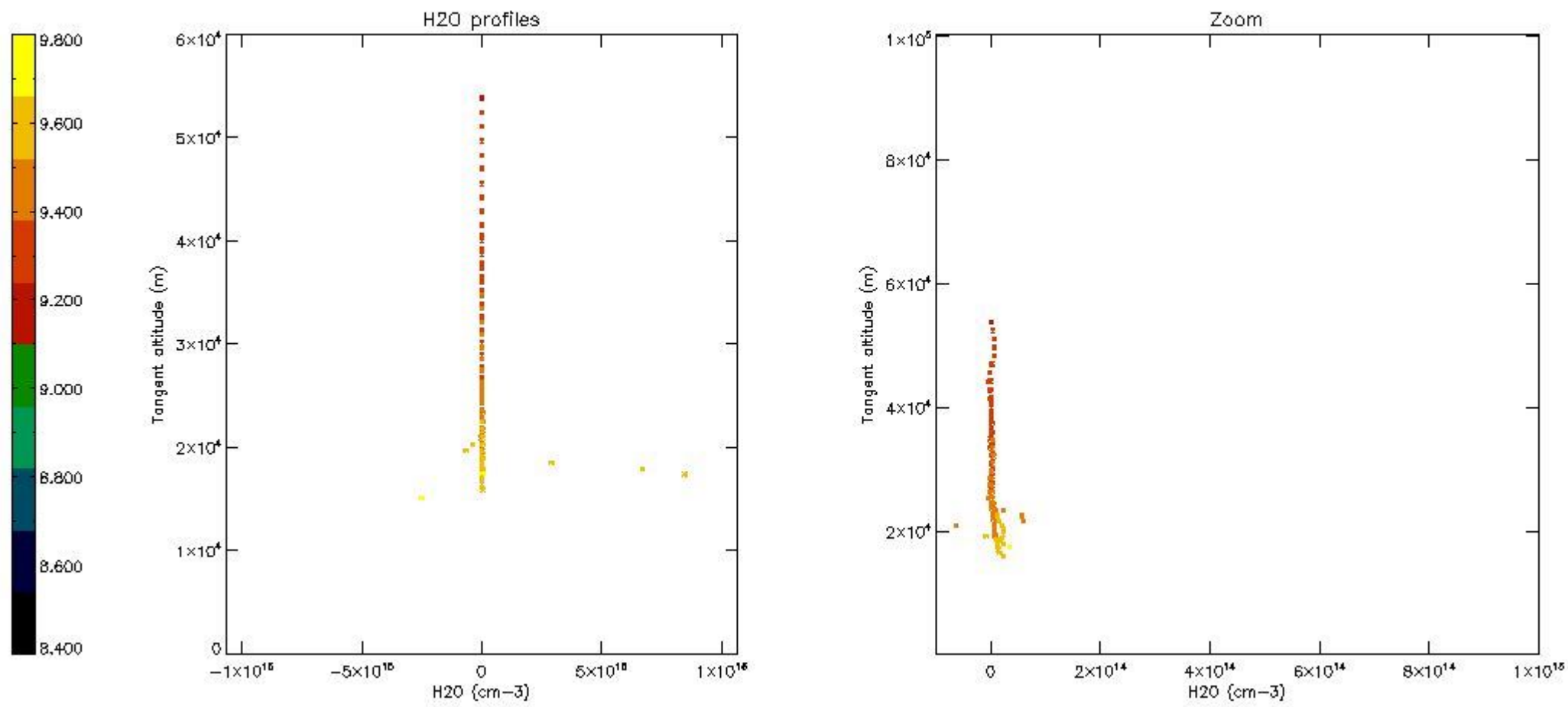
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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	27-OCT-2009 02:23:28
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	27-OCT-2009 02:23:28
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	27-OCT-2009 02:23:28

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#### [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](#)

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

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#### [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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Nb of prods with errors	0

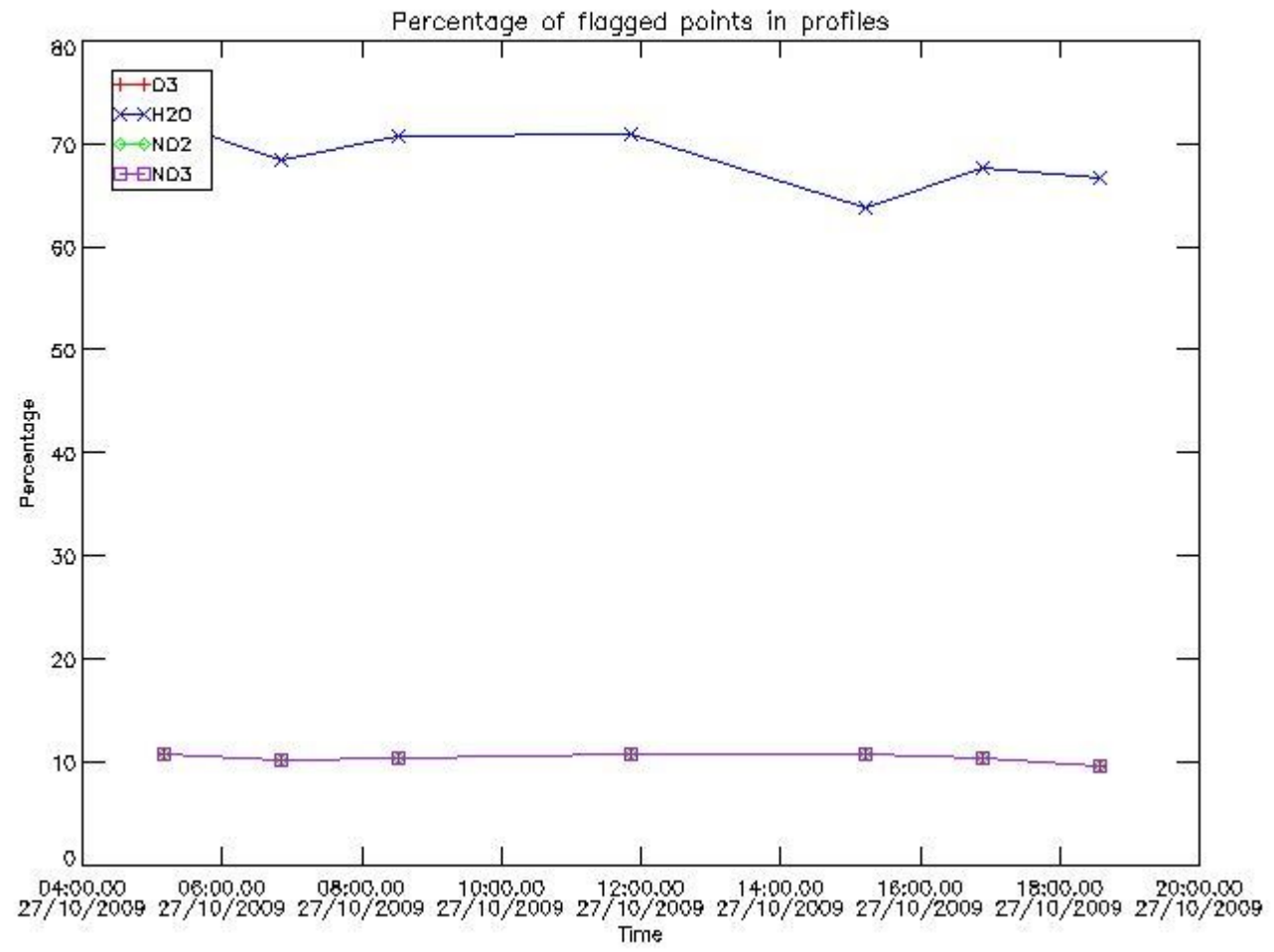
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Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
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12	GOM_NL__2PRFIN20091027_154812_000000402083_00412_40045_6739.N1	27-OCT-2009 15:48:12	Bright	39.500	173	4Bet Tri	3.0040	8900.0	79	40045	No
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14	GOM_NL__2PRFIN20091027_165403_000000482083_00413_40046_6757.N1	27-OCT-2009 16:54:03	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	40046	No
15	GOM_NL__2PRFIN20091027_183439_000000532083_00414_40047_6768.N1	27-OCT-2009 18:34:39	Dark	52.500	2	Alp Car	-0.73600	7000.0	105	40047	No
16	GOM_NL__2PRFIN20091027_190923_000000602083_00414_40047_6769.N1	27-OCT-2009 19:09:23	Bright	60.000	173	4Bet Tri	3.0040	8900.0	120	40047	No
17	GOM_NL__2PRFIN20091027_191123_000000402083_00414_40047_6770.N1	27-OCT-2009 19:11:23	Bright	39.500	73	57Gam1And	2.2600	13100.	79	40047	No

## 3. Quality information per product

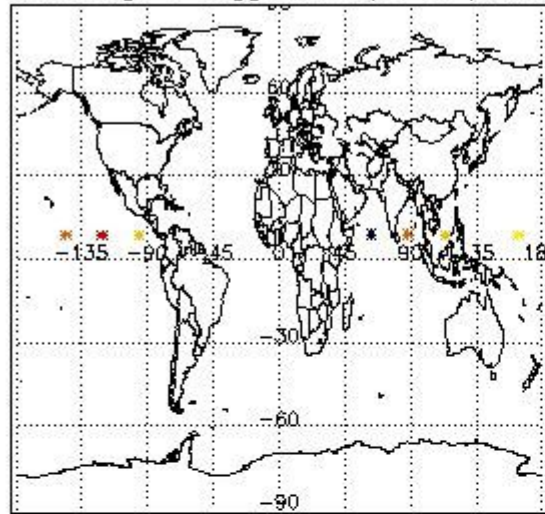
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

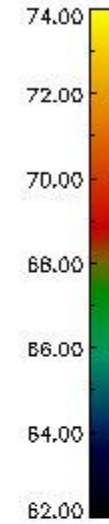
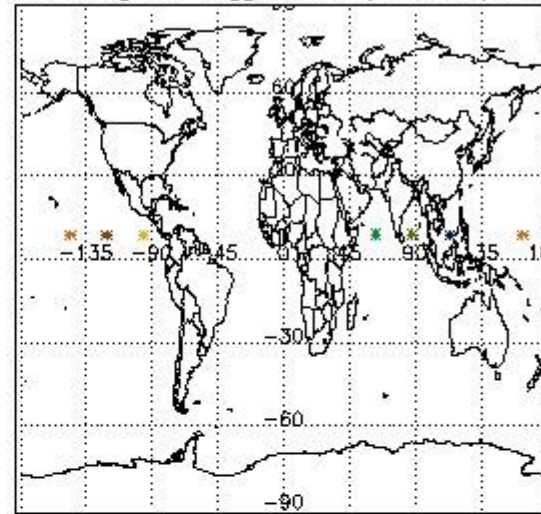


*3.2 Plot quality information per product (world map)*

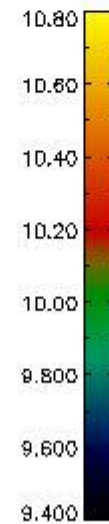
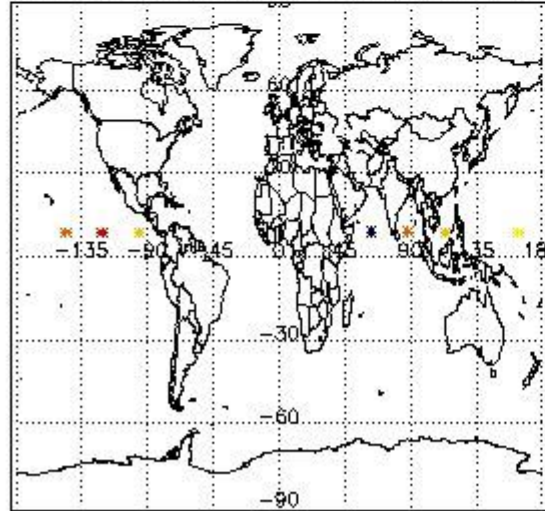
Percentage of flagged data per O3 profile



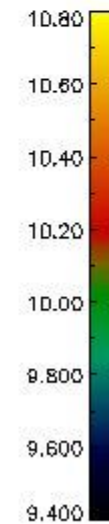
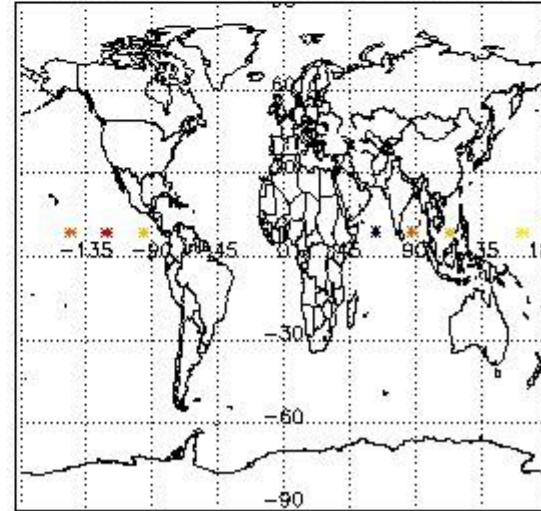
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

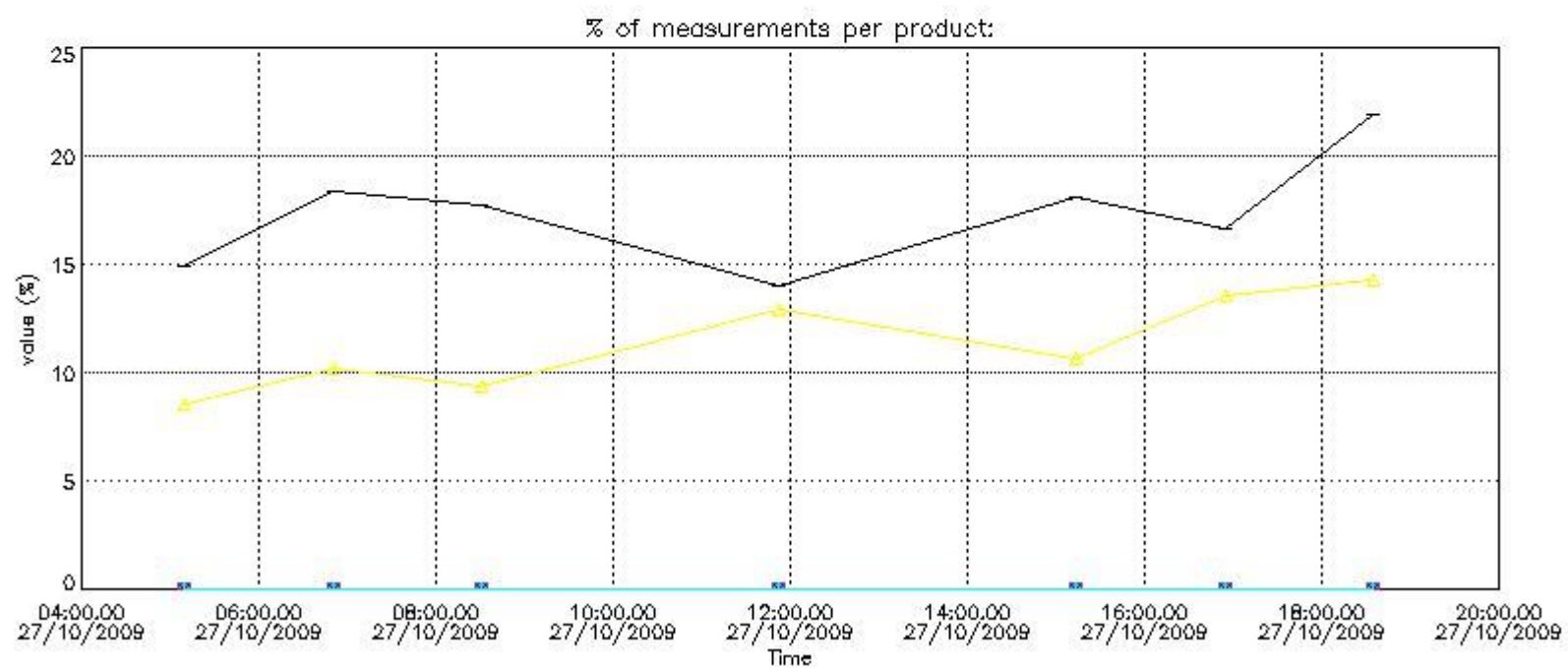


#### 4. Level 1 quality information per product

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.

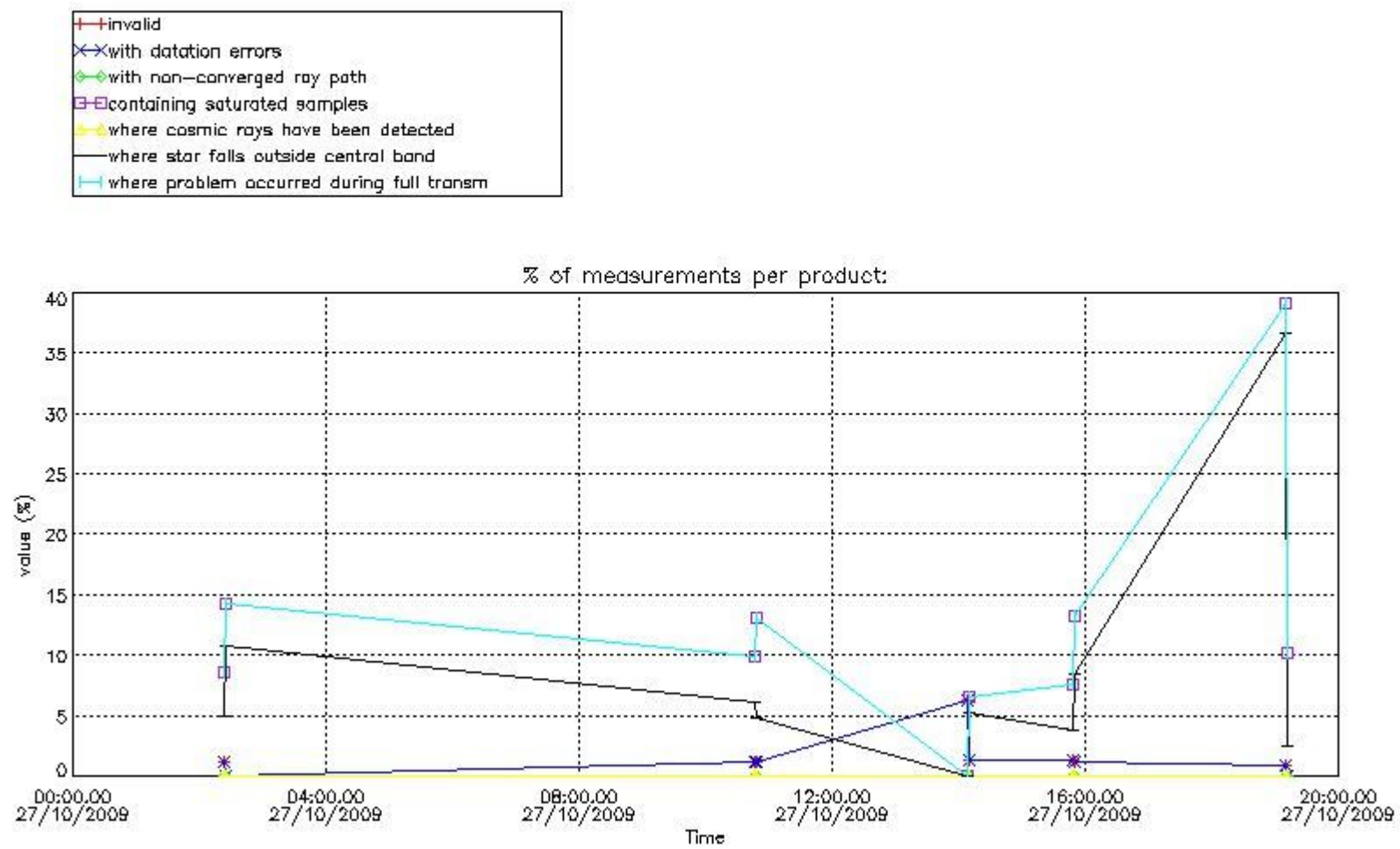
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

###### 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

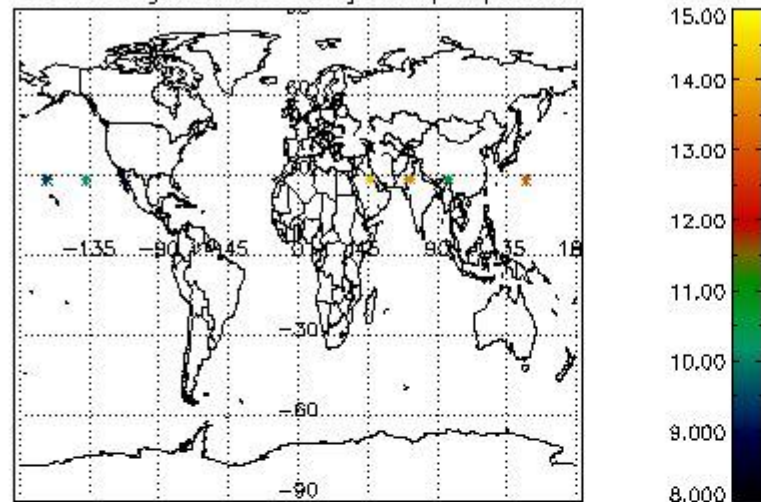




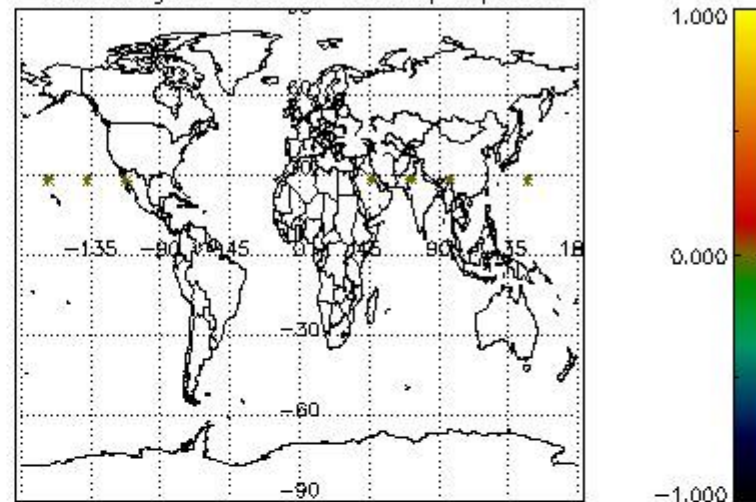
4.2 Plot quality information per product coming from level 1b processing (world map)

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

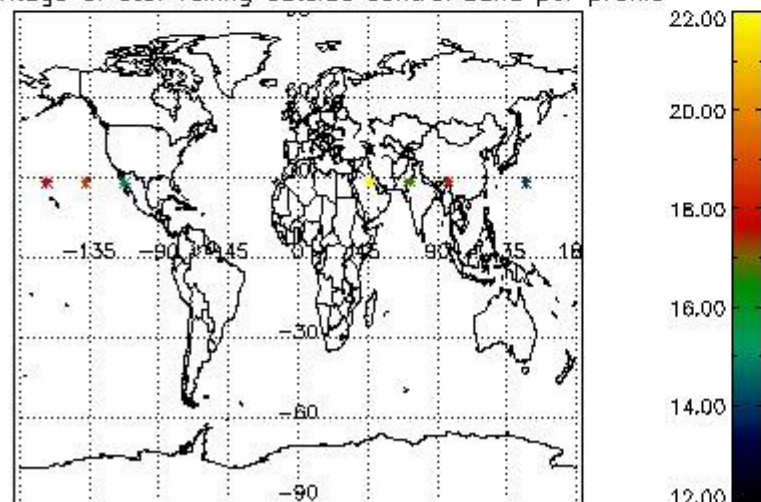
Percentage of cosmic ray hits per profile



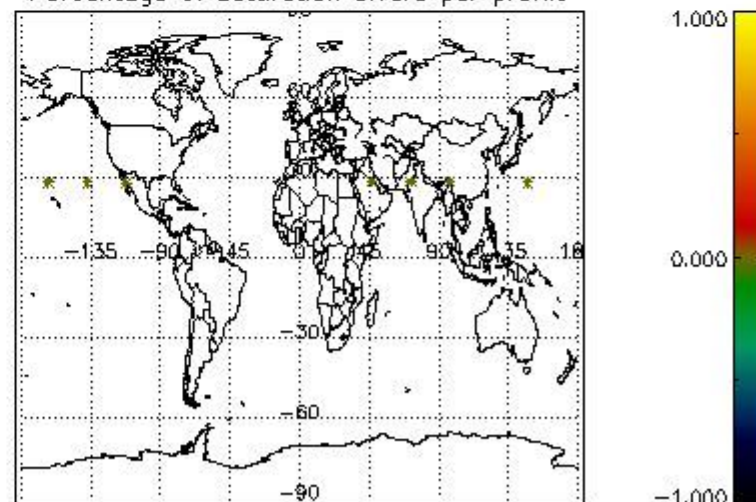
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

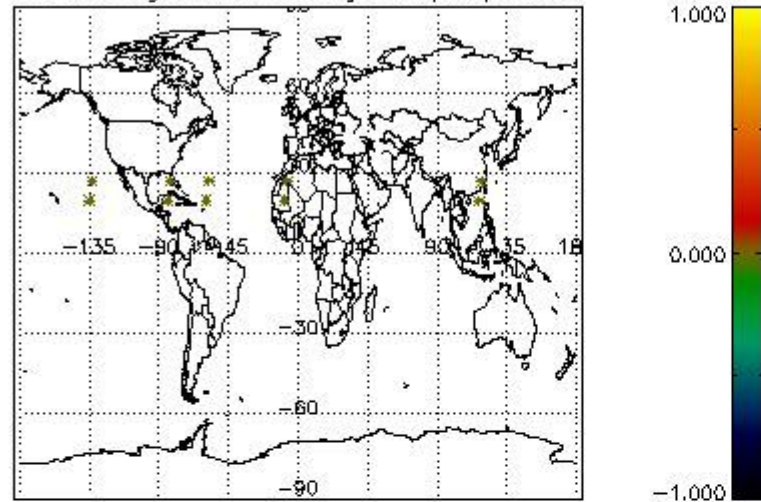


Percentage of saturation errors per profile

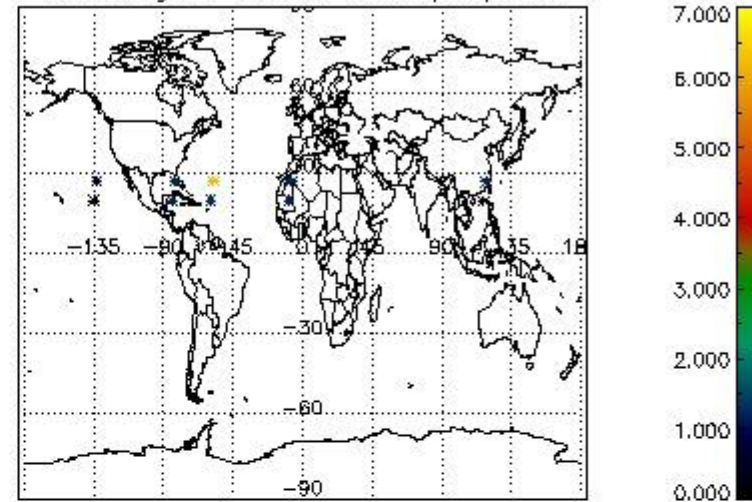


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

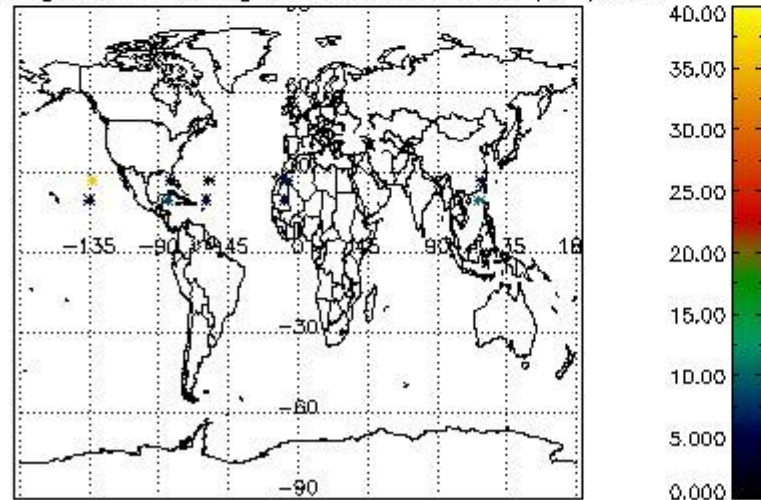
Percentage of cosmic ray hits per profile



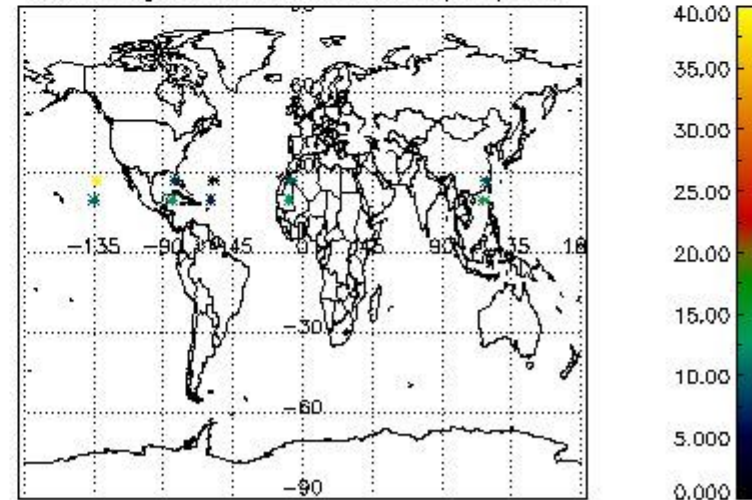
Percentage of datation errors per profile



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.

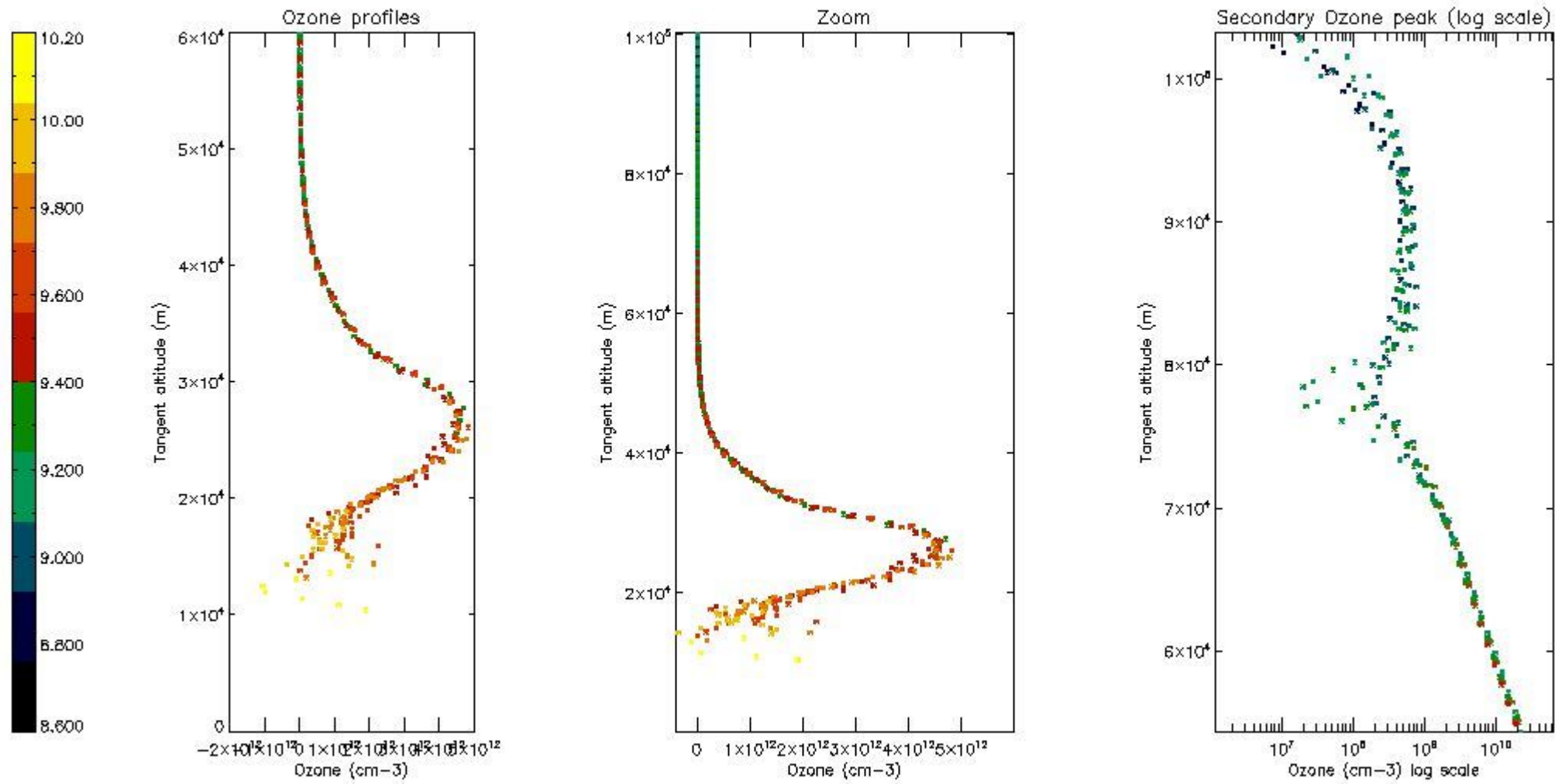
Criteria	% of total production
All STD	48
STD < 20	37



STD < 10	33
STD < 5	25

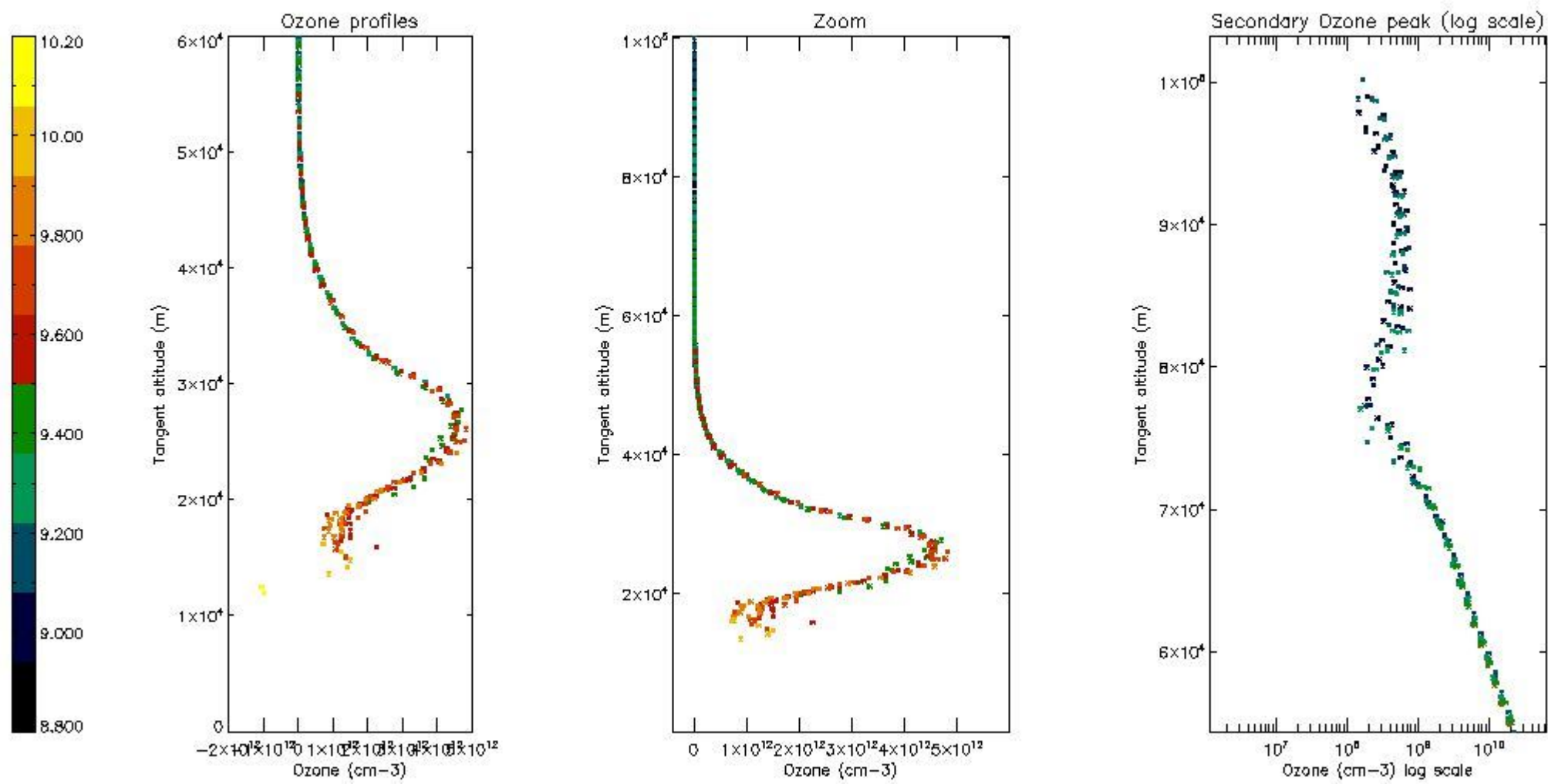
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

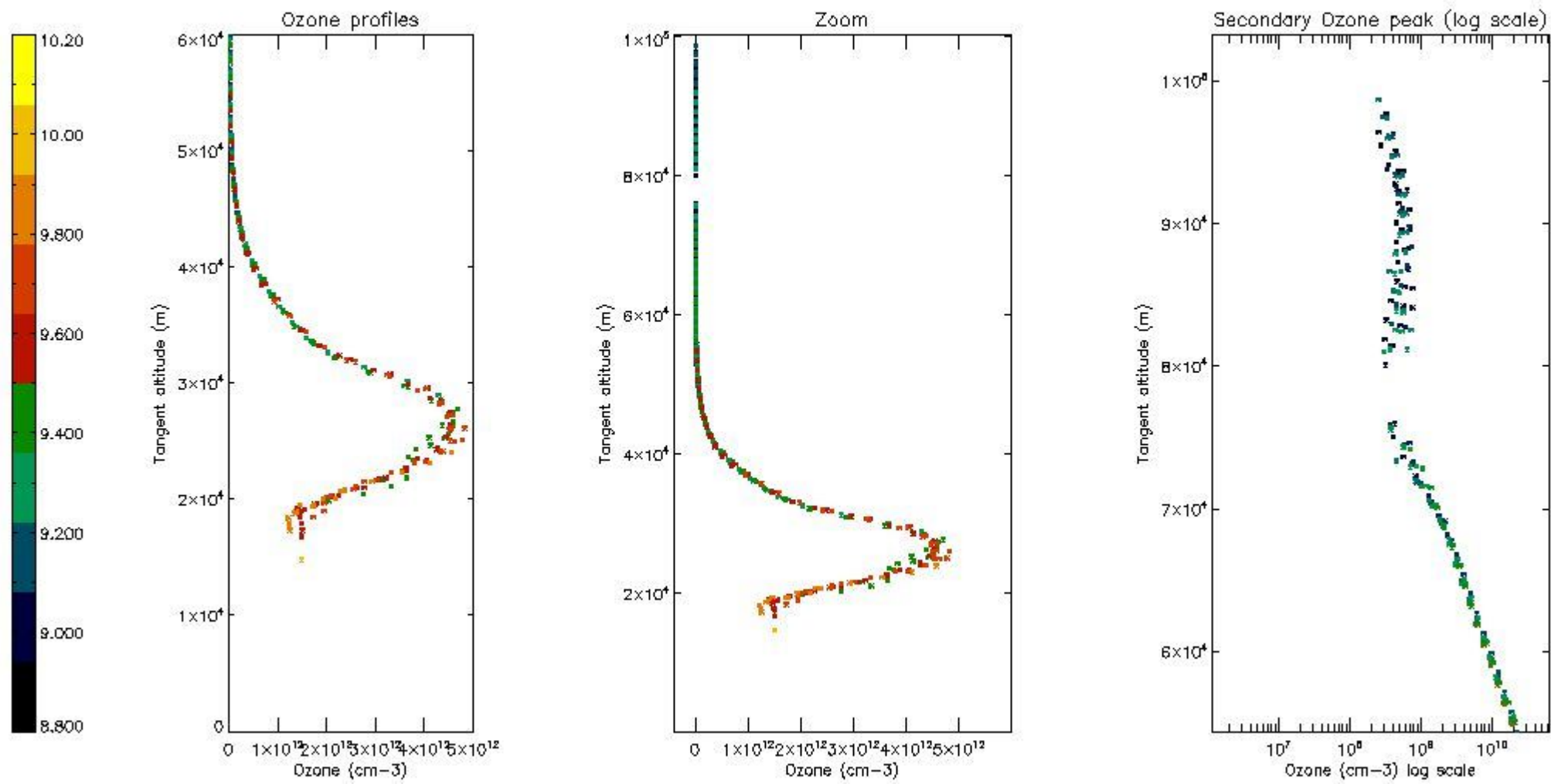
The colorbar represents the latitude.



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

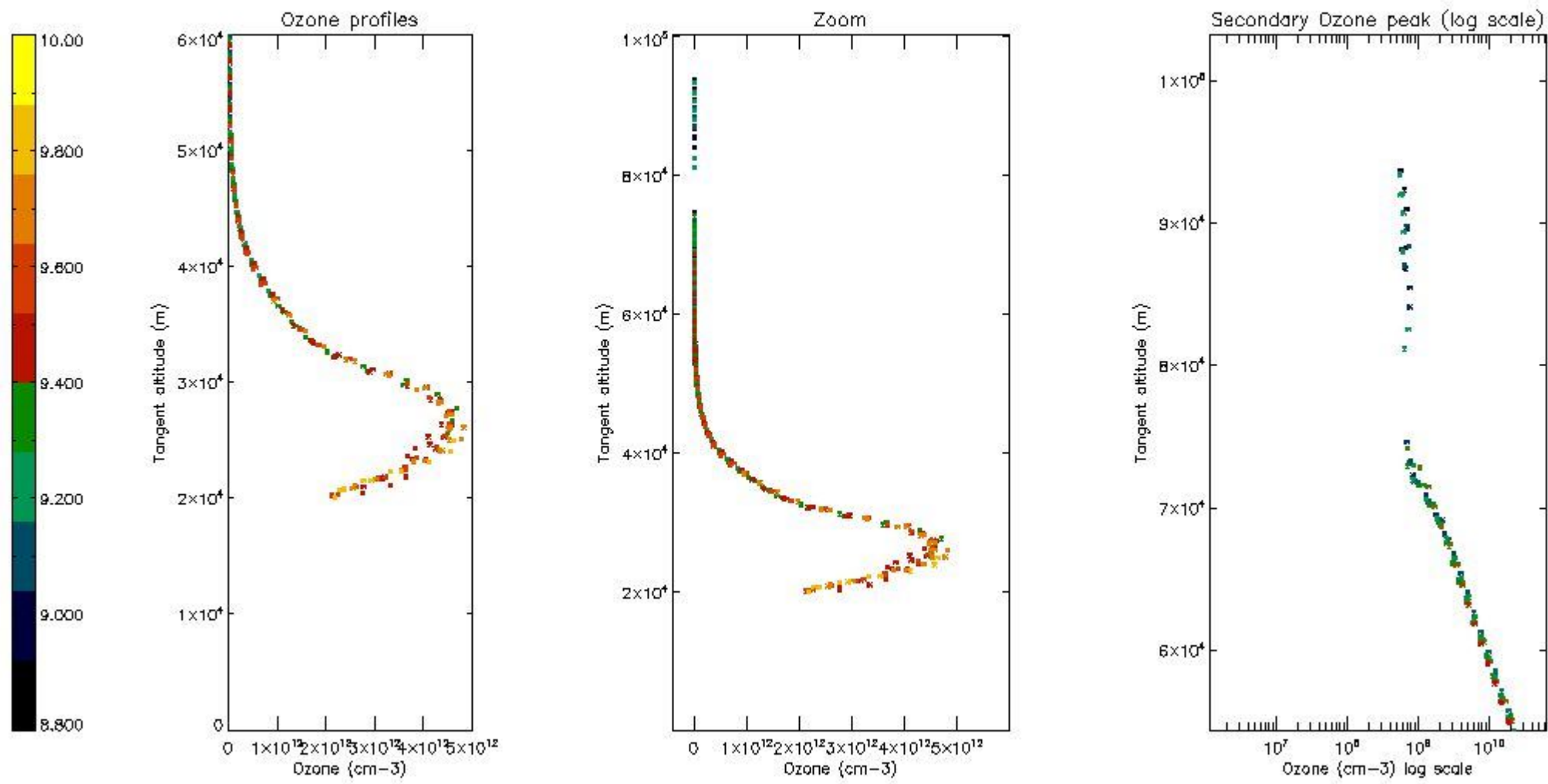
The colorbar represents the latitude.





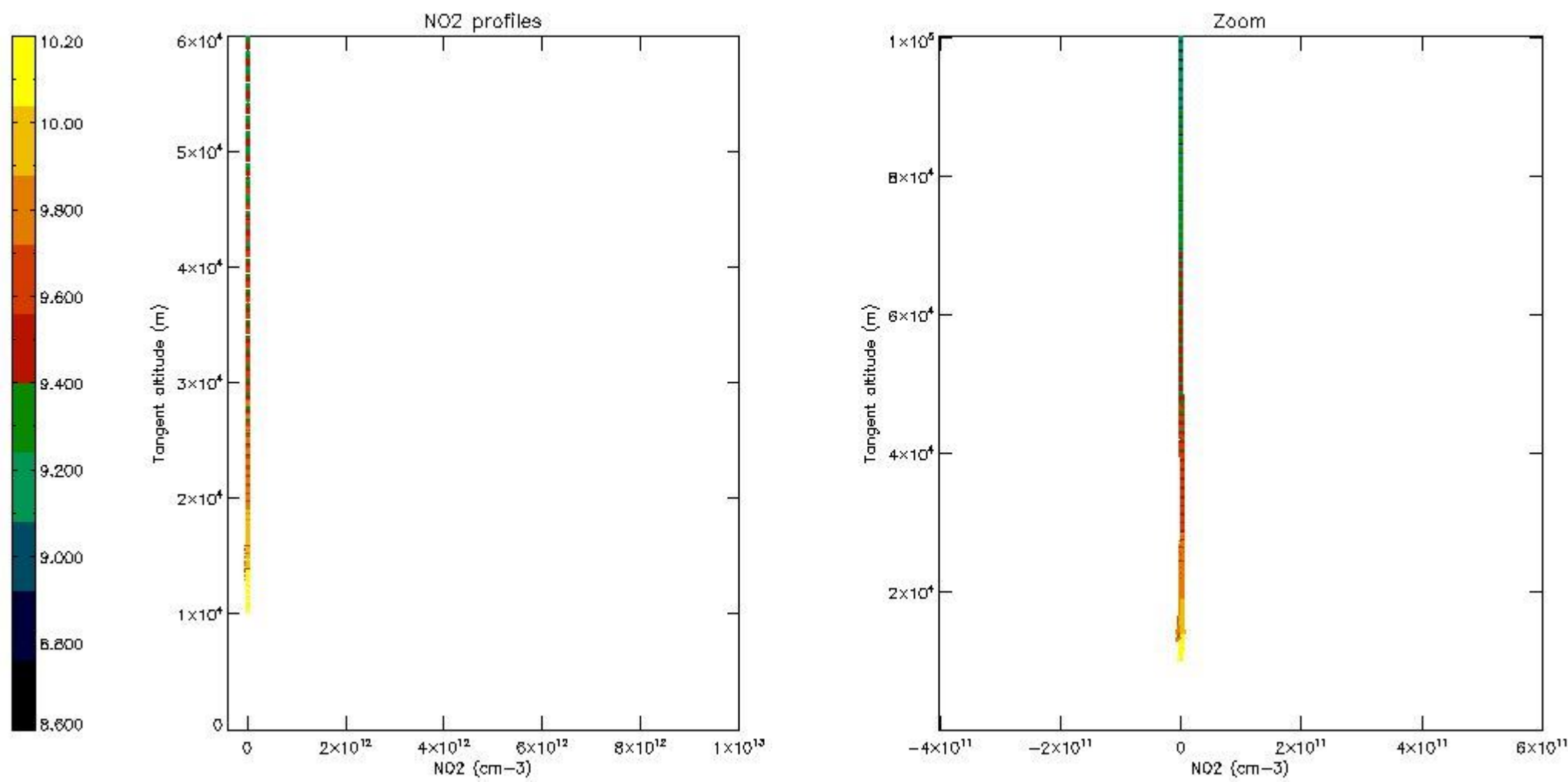
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



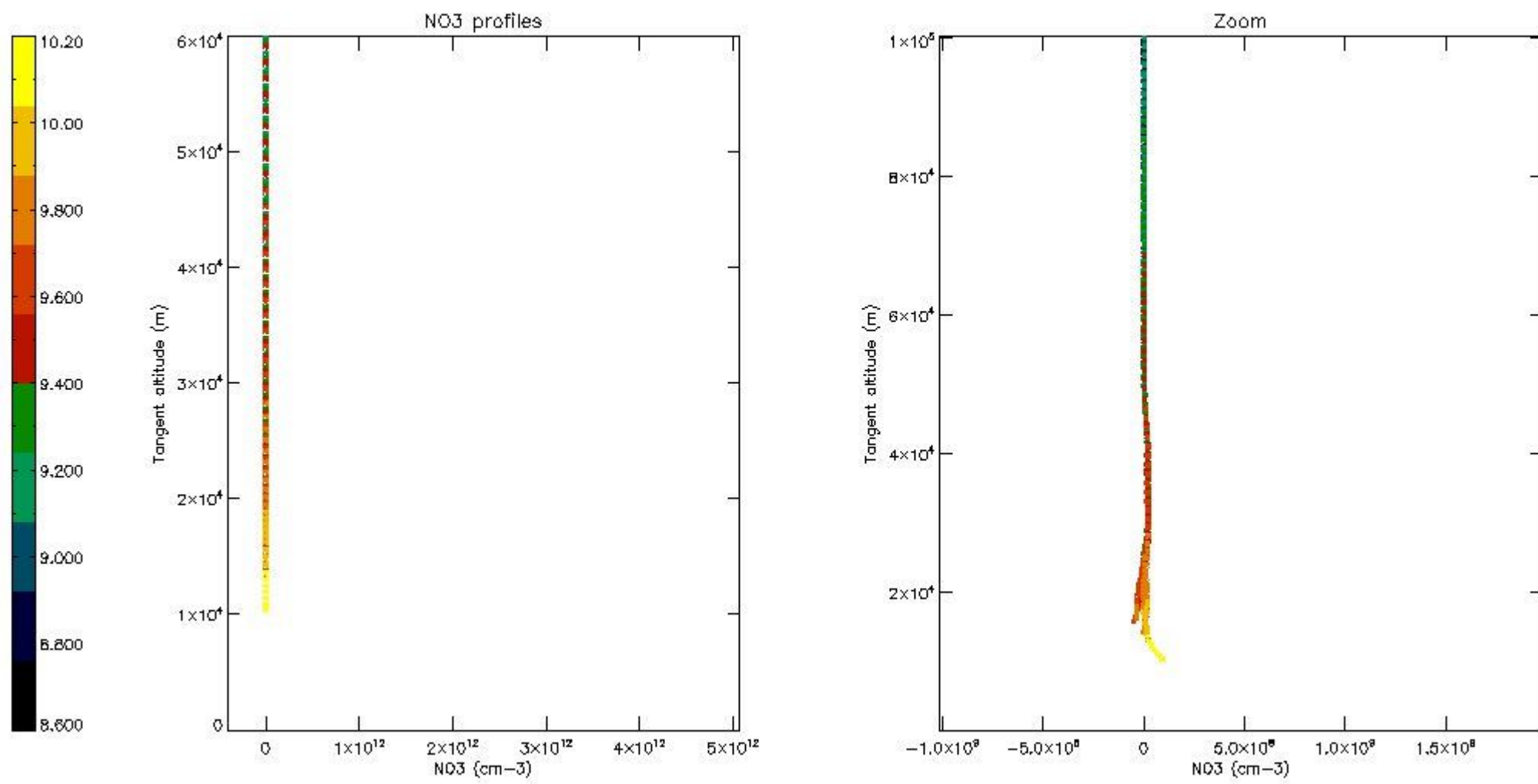
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



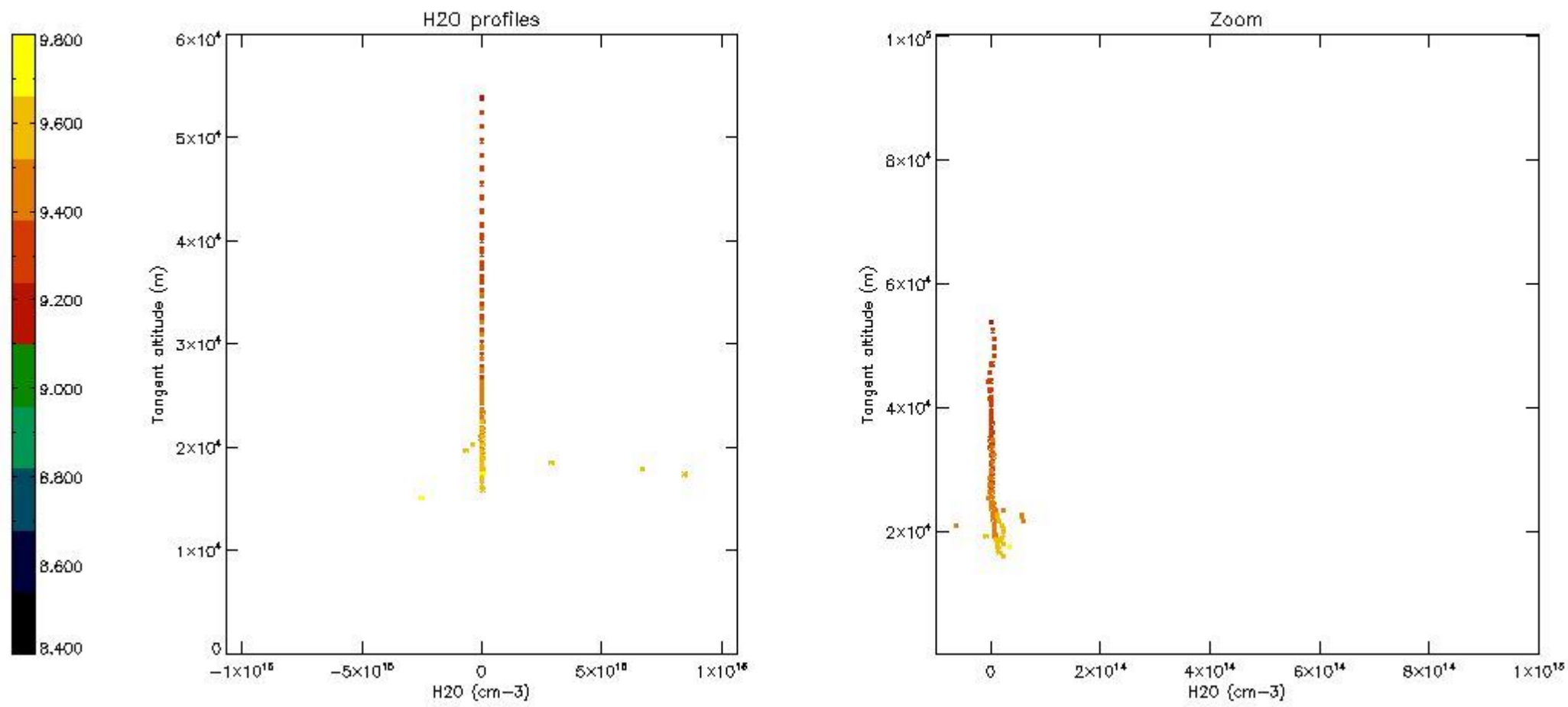
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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.

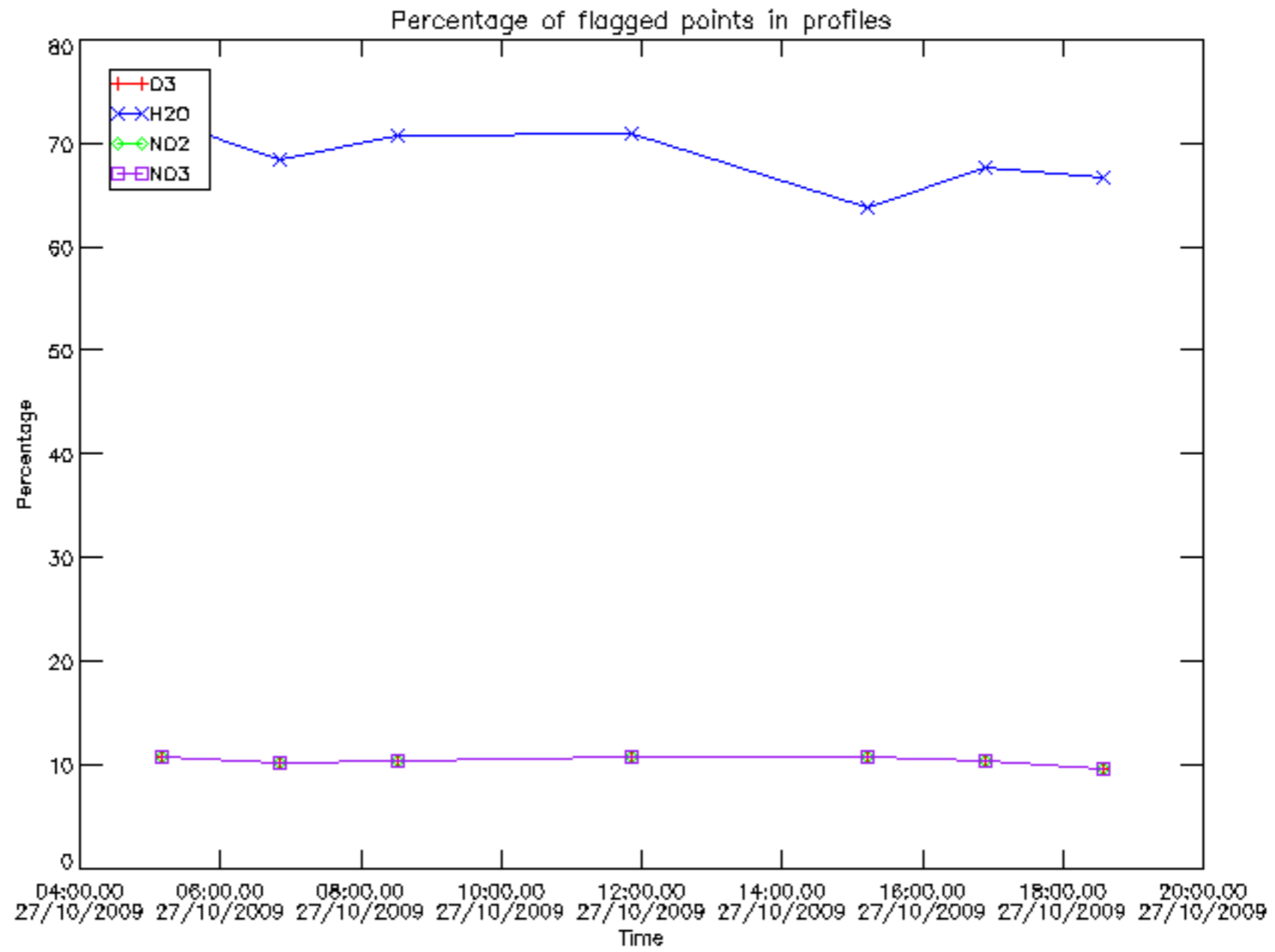


## 6. Auxiliary Data Files used for the production reported in section 2

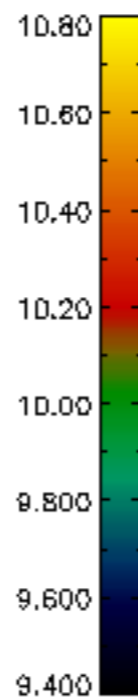
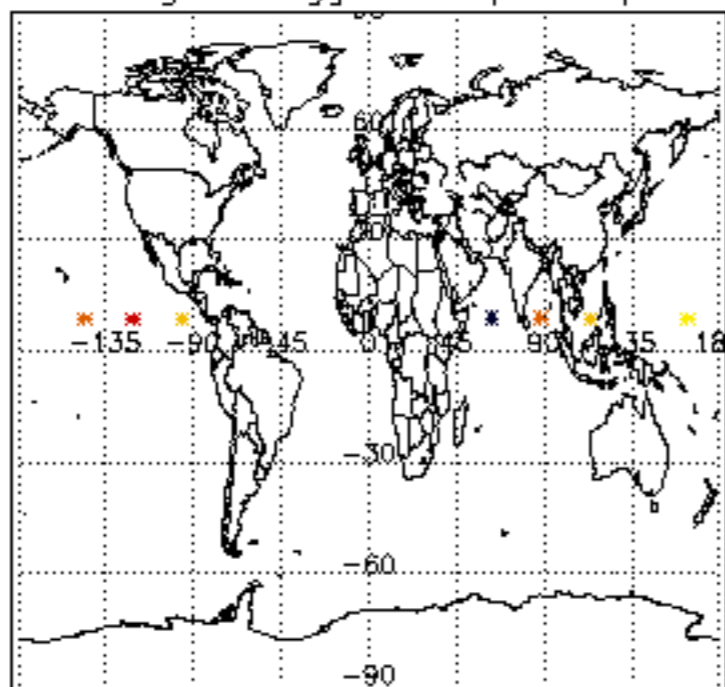
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	27-OCT-2009 02:23:28
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	27-OCT-2009 02:23:28
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	27-OCT-2009 02:23:28

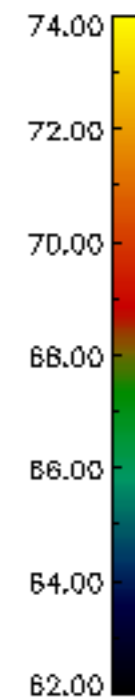
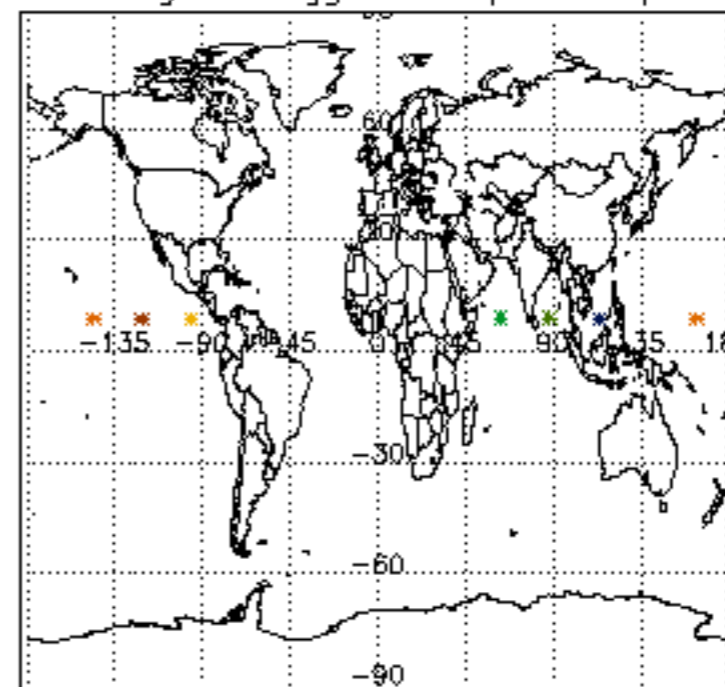




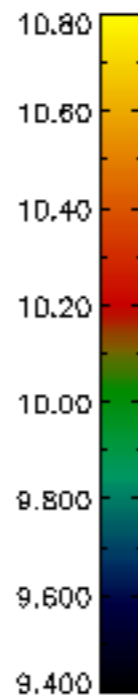
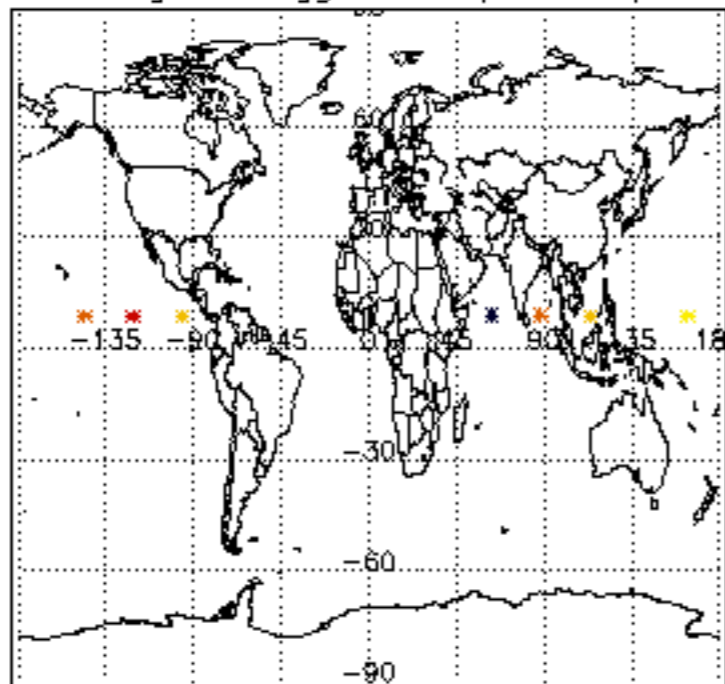
Percentage of flagged data per D3 profile



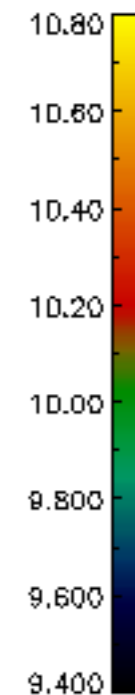
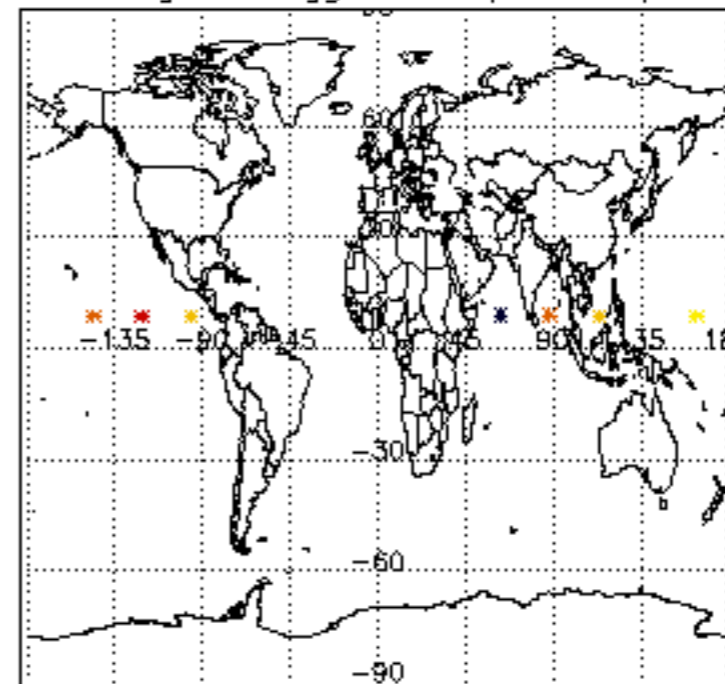
Percentage of flagged data per H2O profile

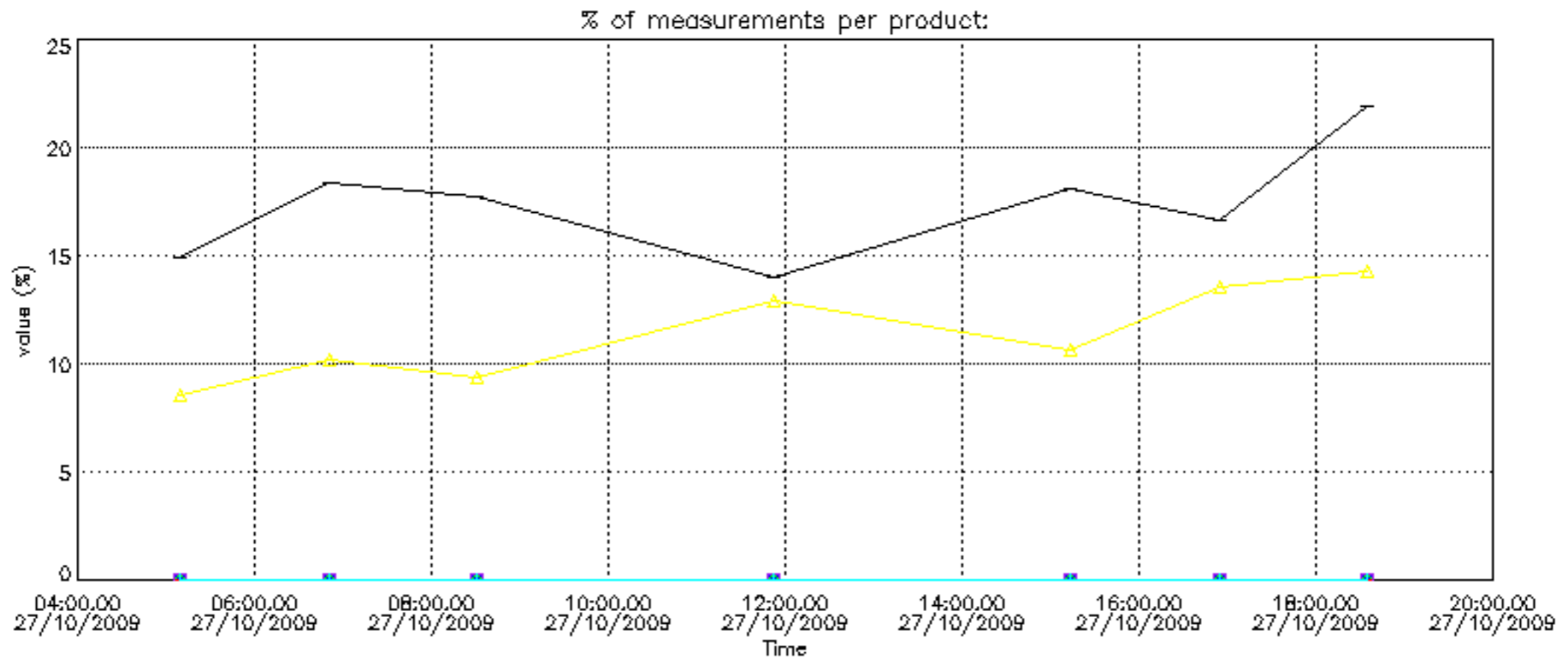


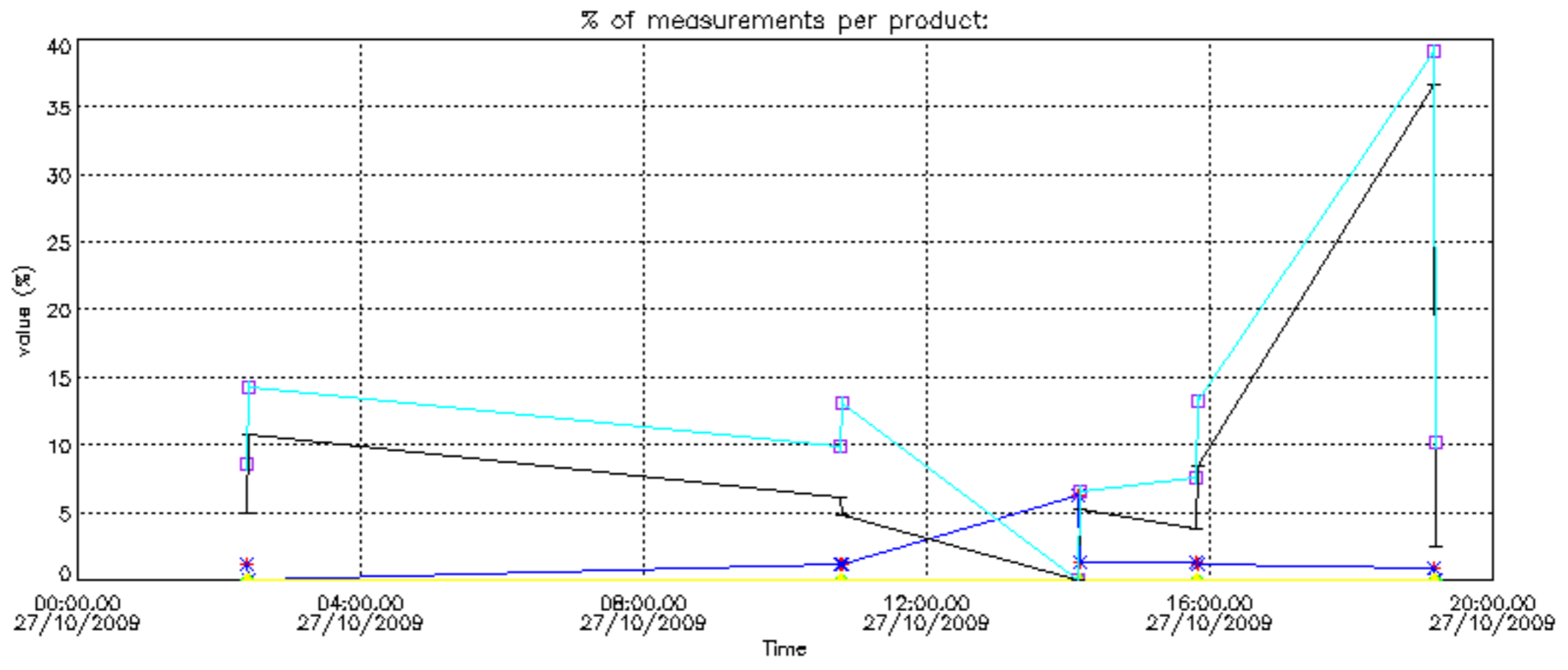
Percentage of flagged data per NO2 profile



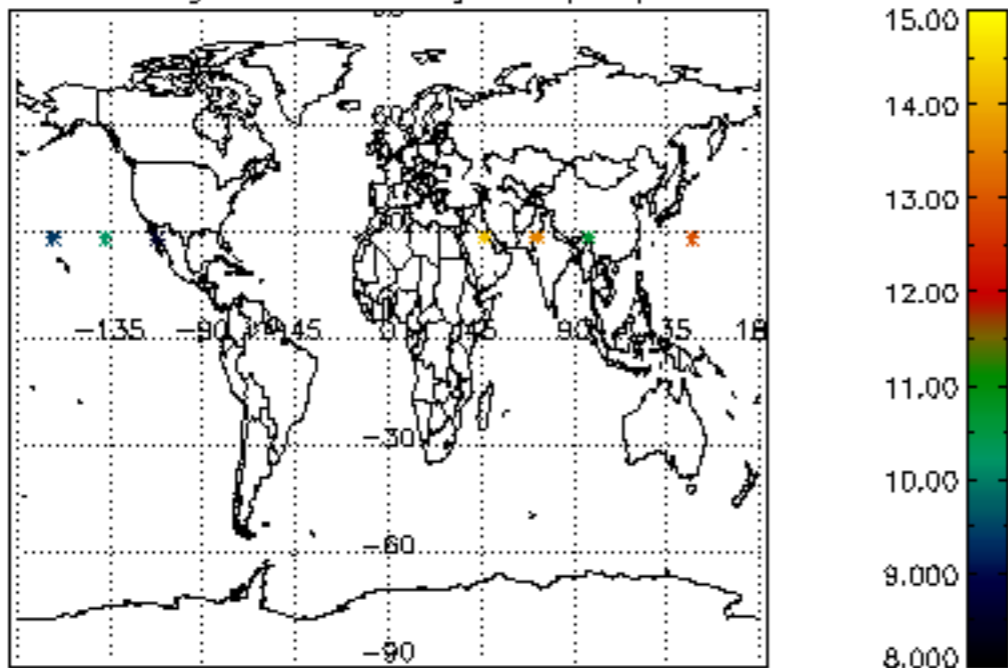
Percentage of flagged data per NO3 profile



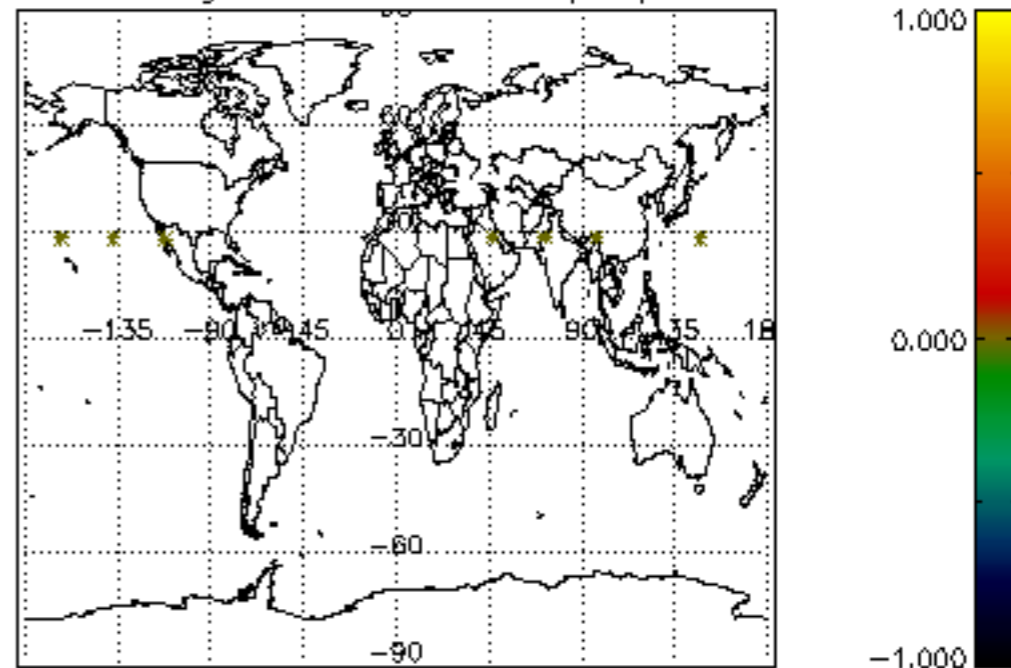




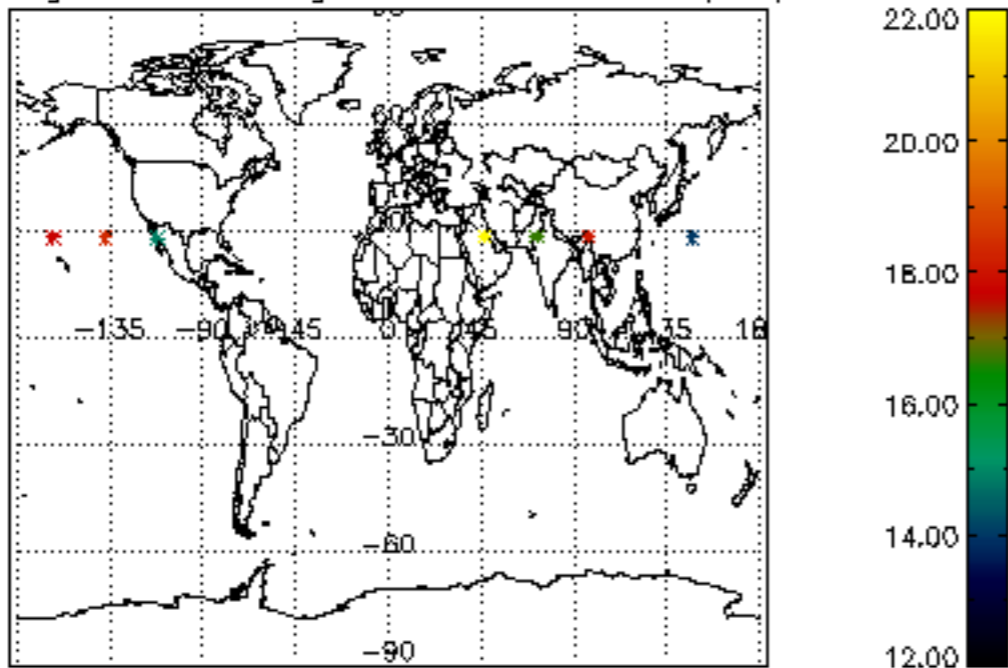
Percentage of cosmic ray hits per profile



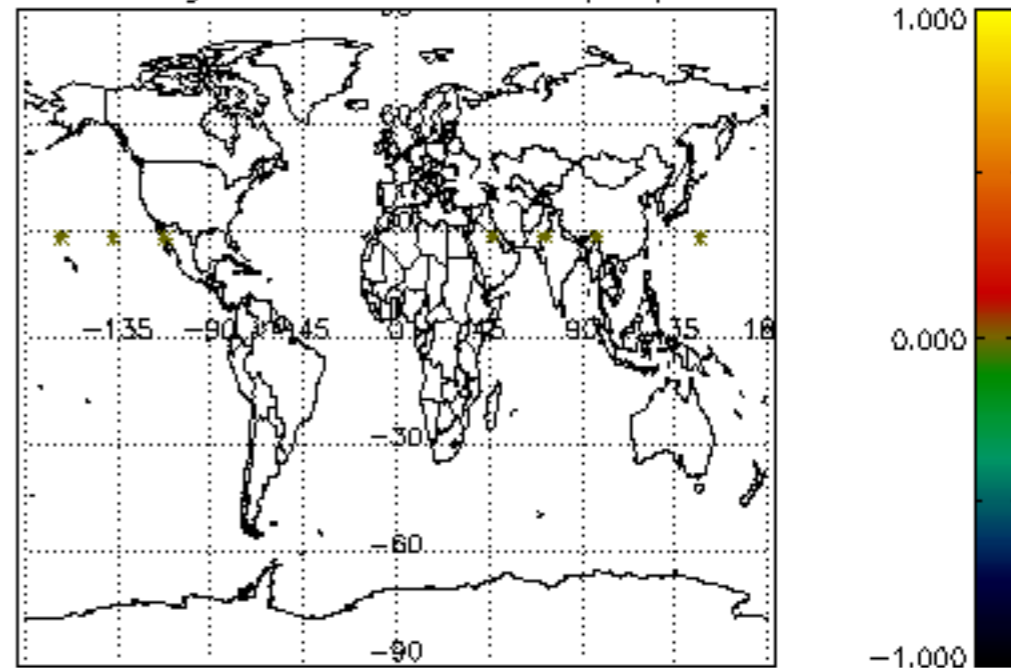
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

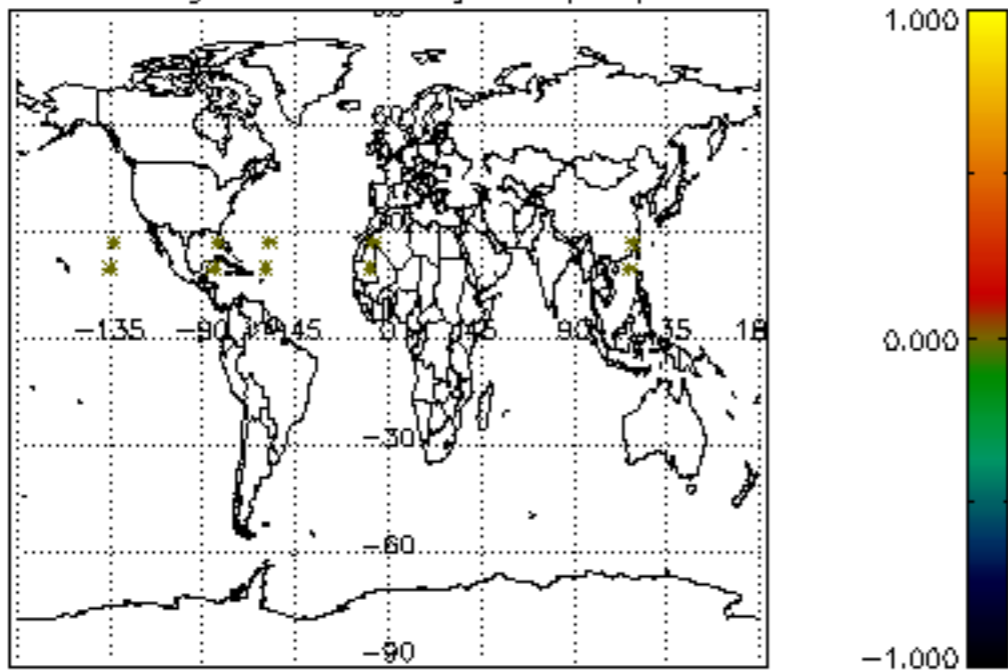


Percentage of saturation errors per profile

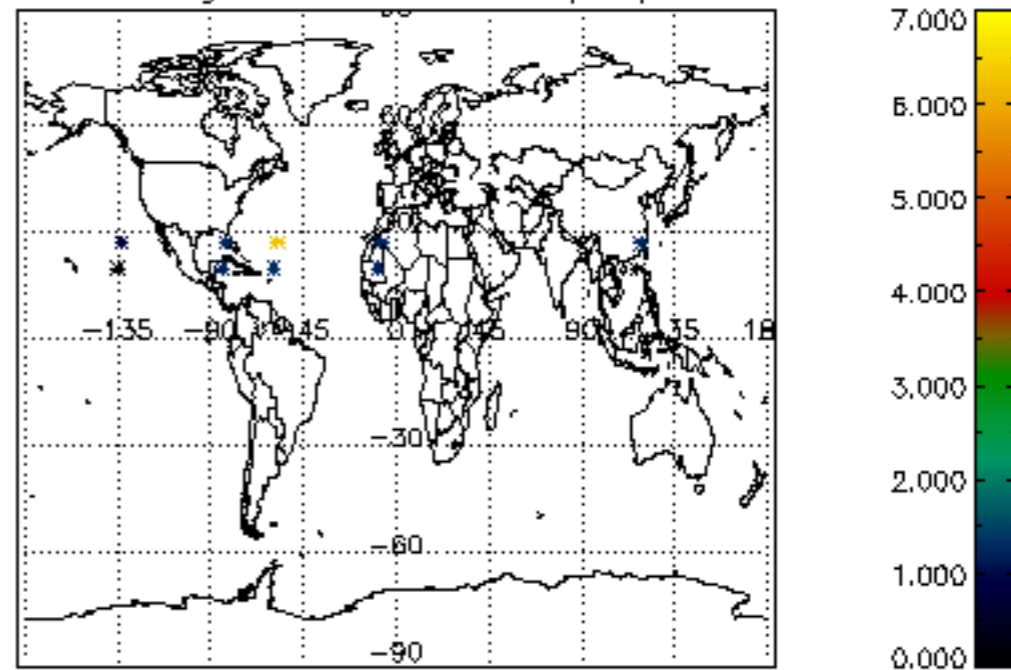




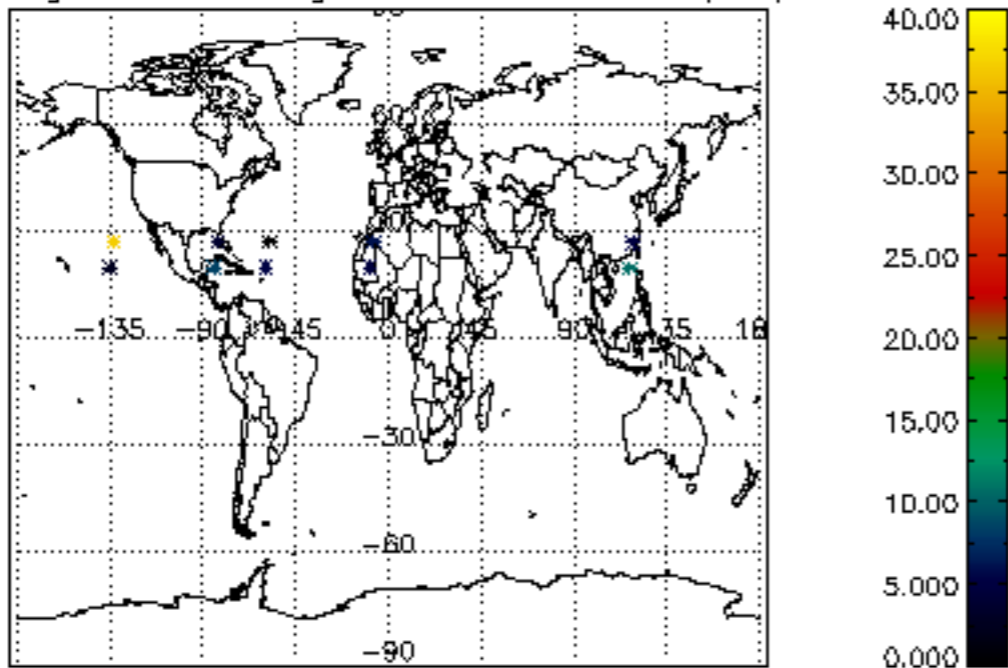
Percentage of cosmic ray hits per profile



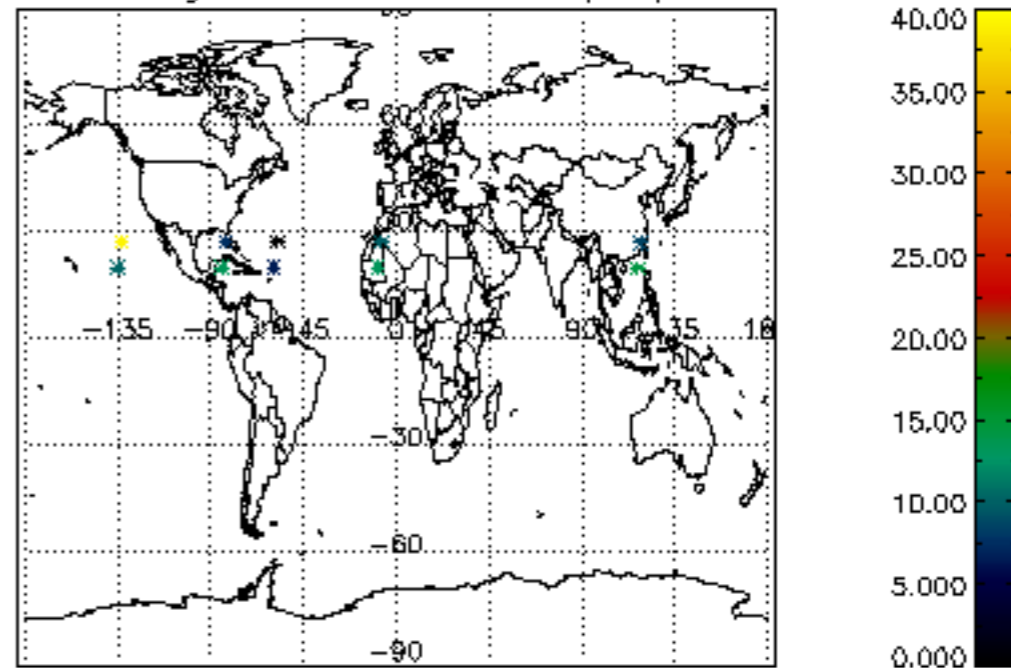
Percentage of datation errors per profile

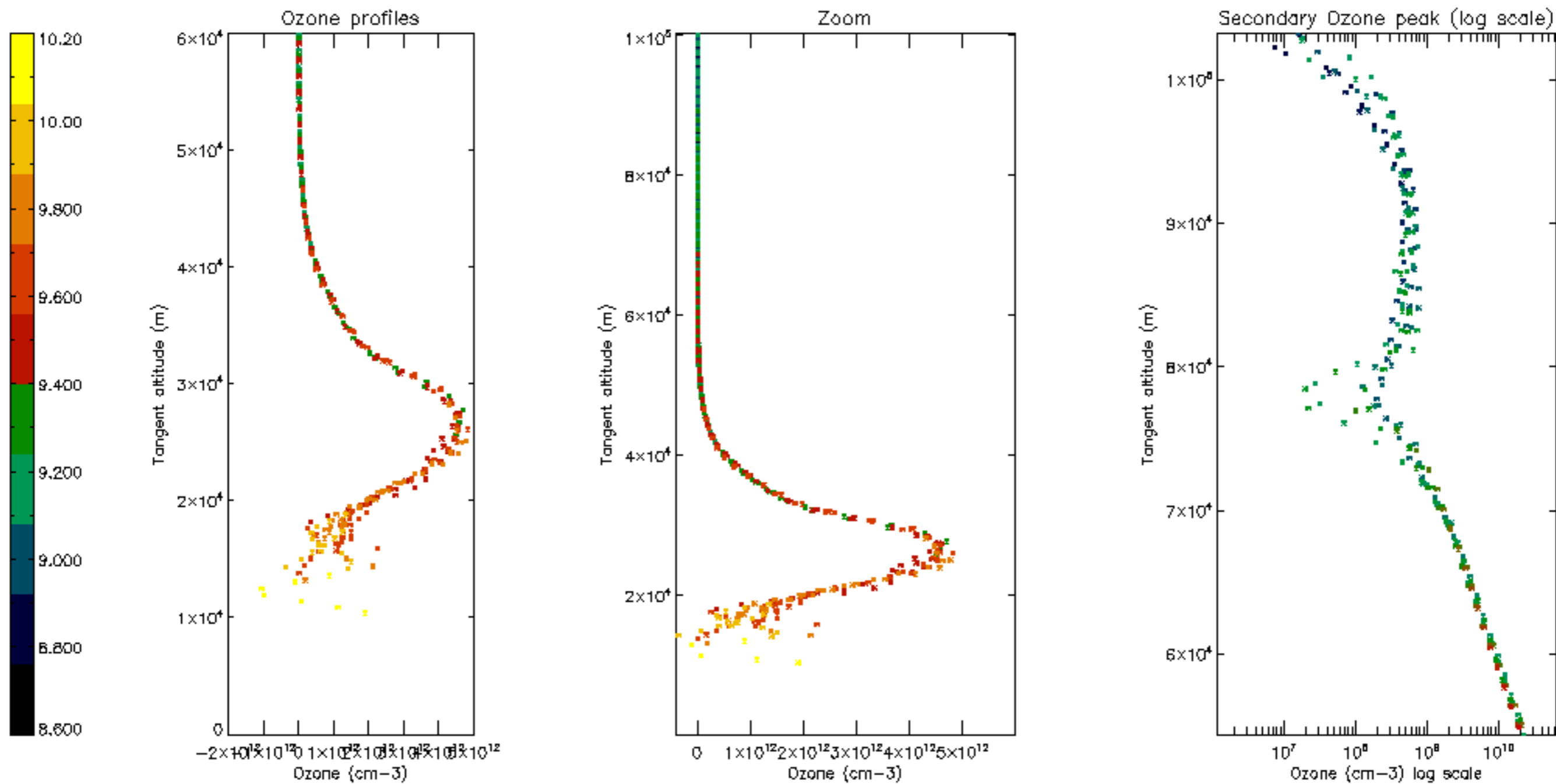


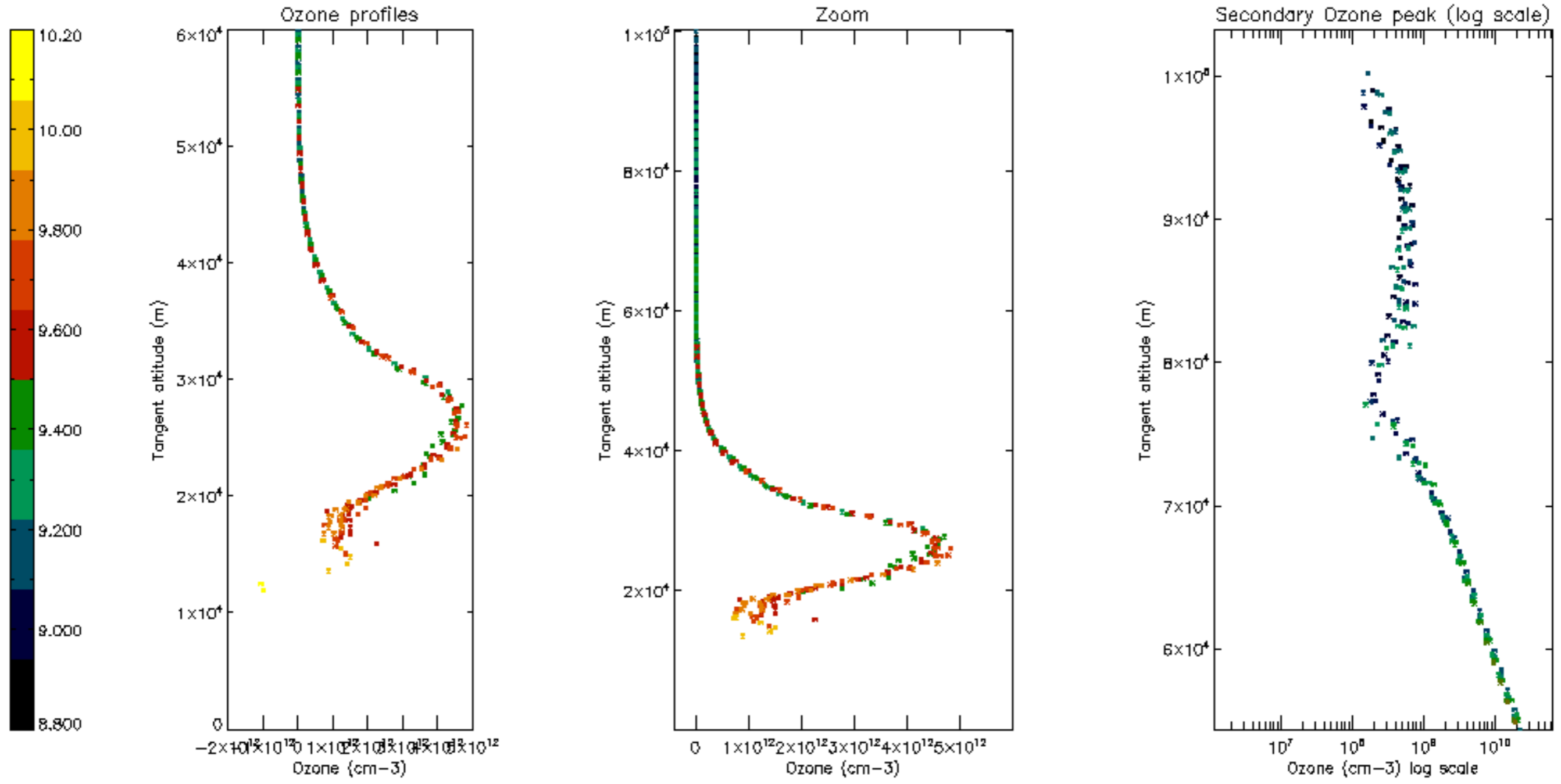
Percentage of star falling outside central band per profile

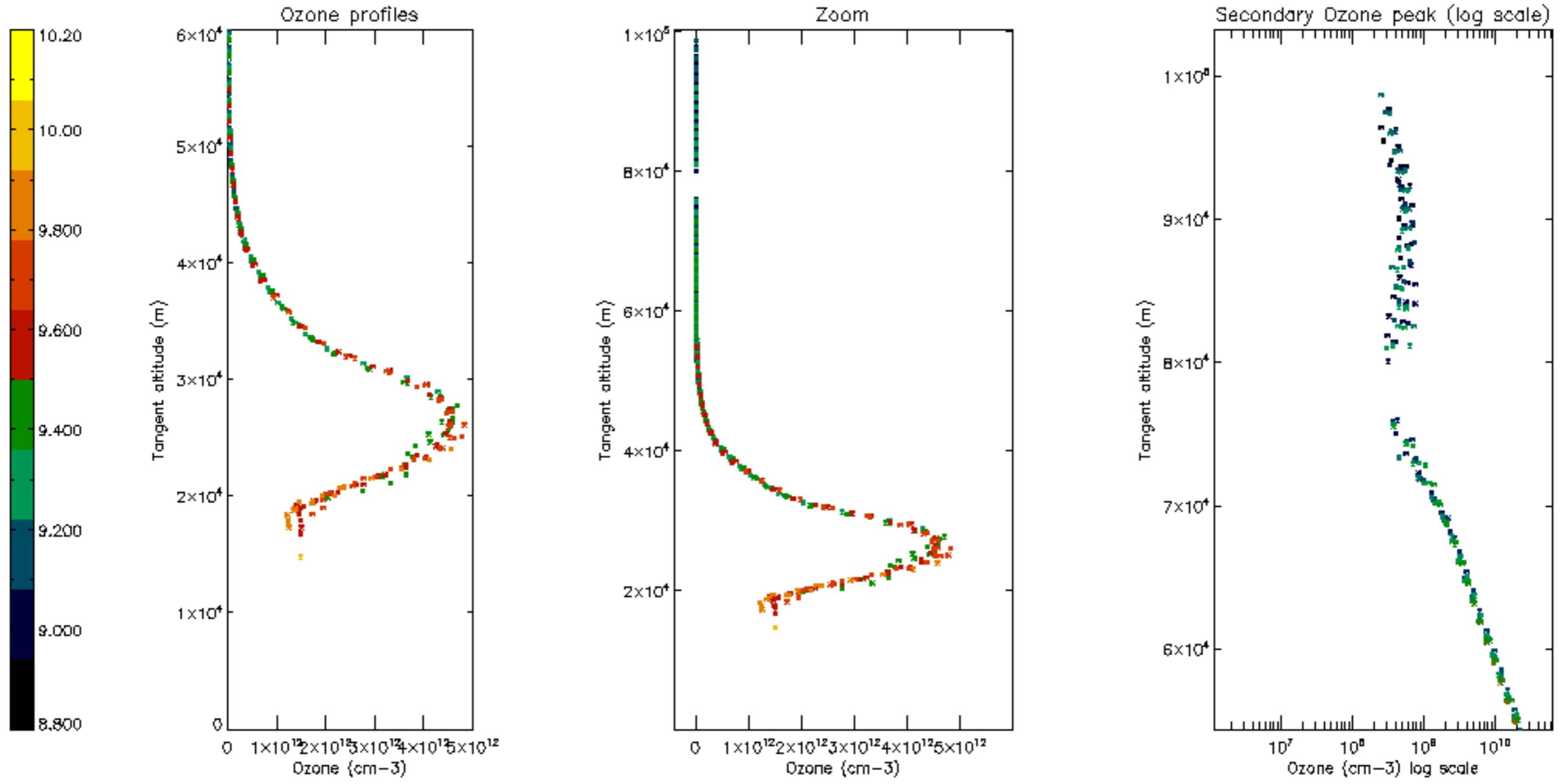


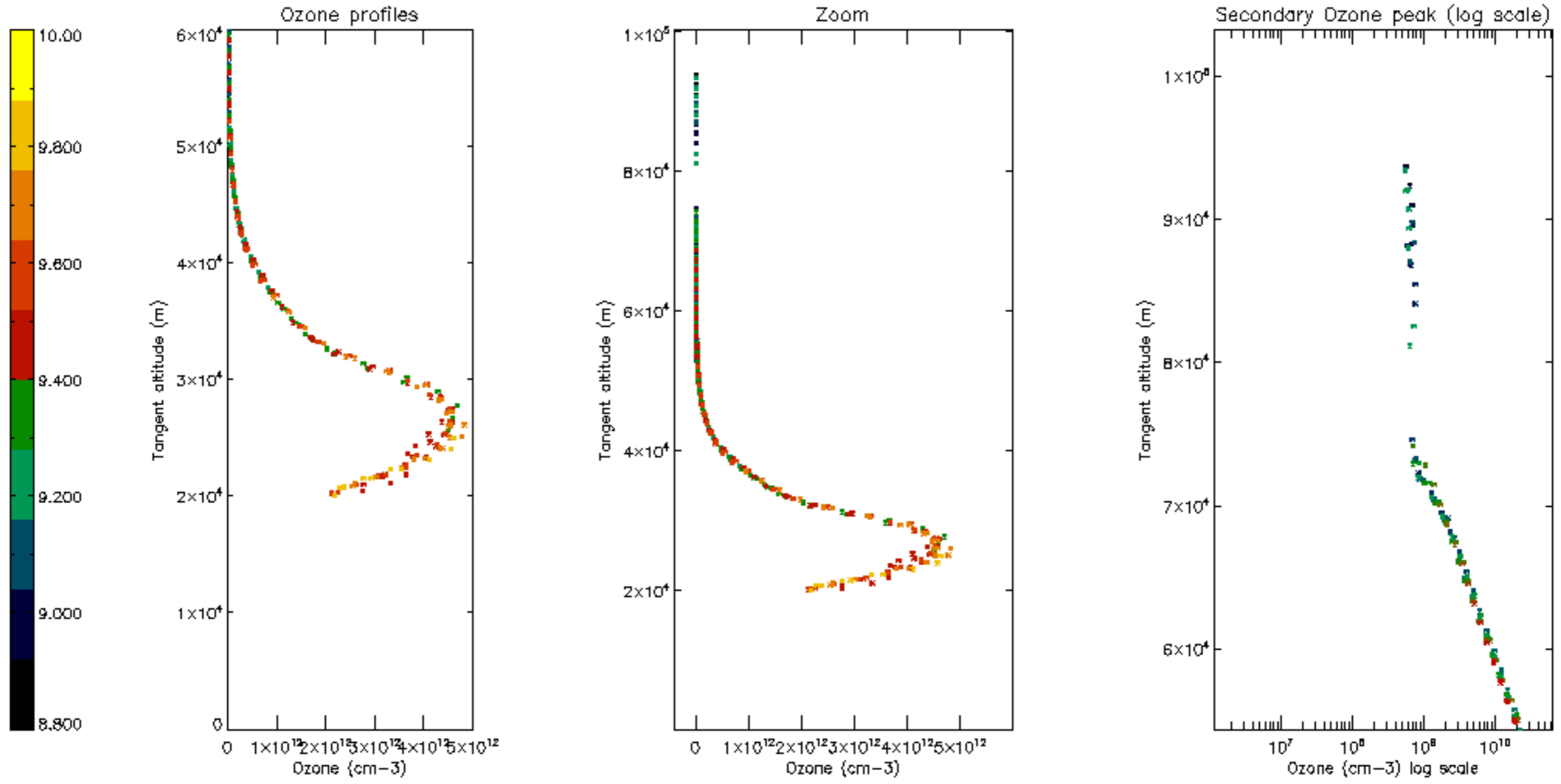
Percentage of saturation errors per profile



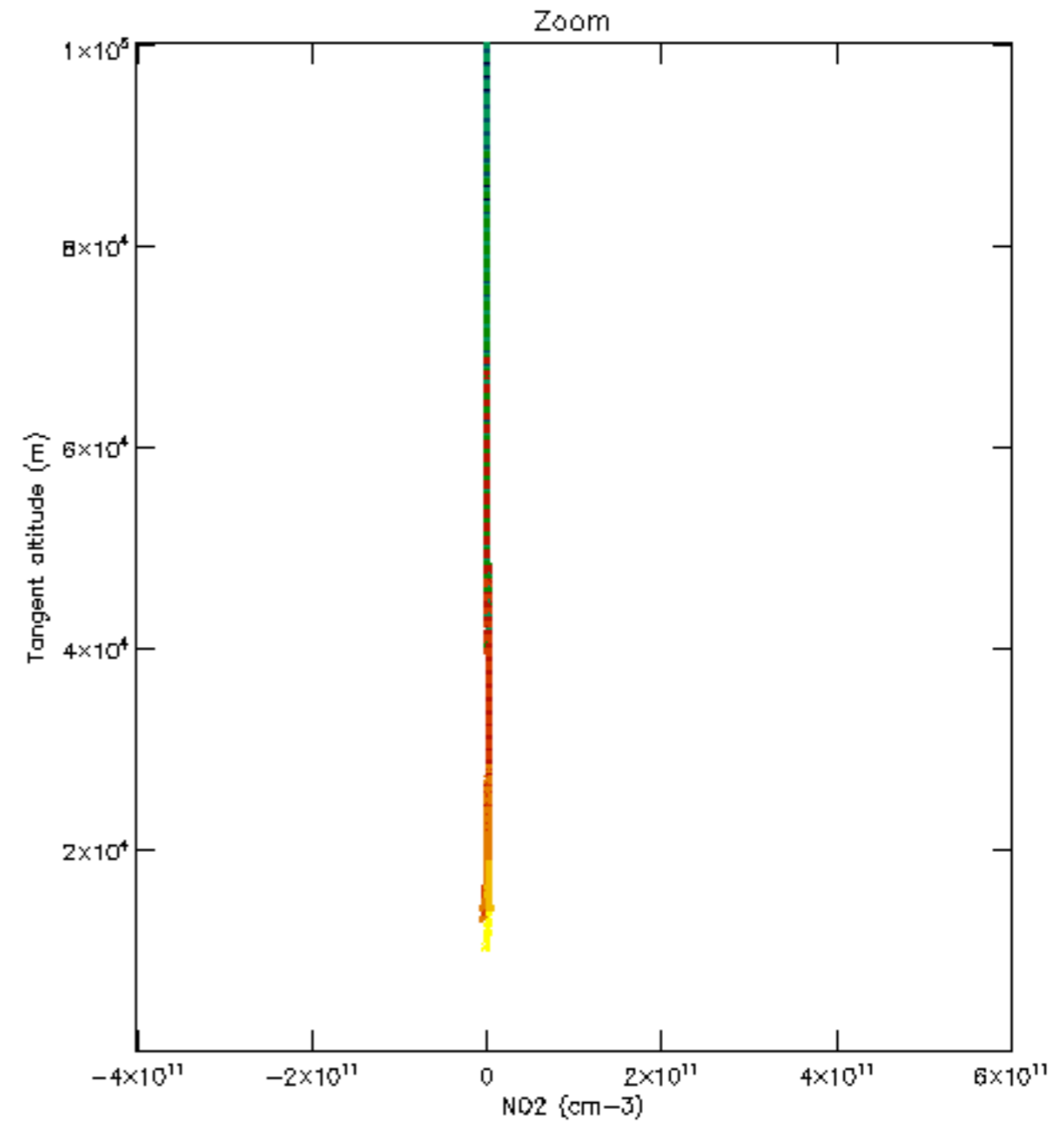
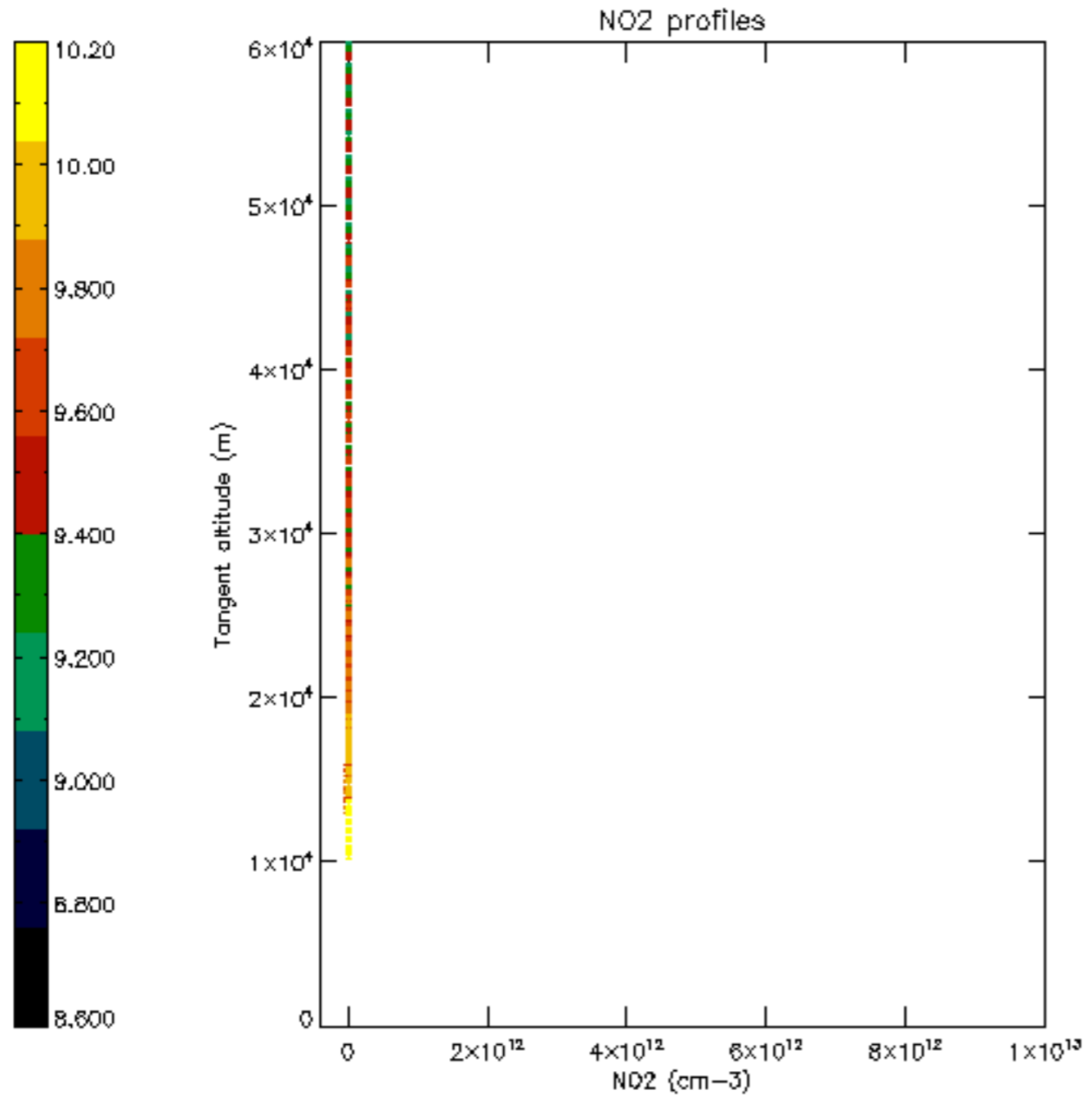


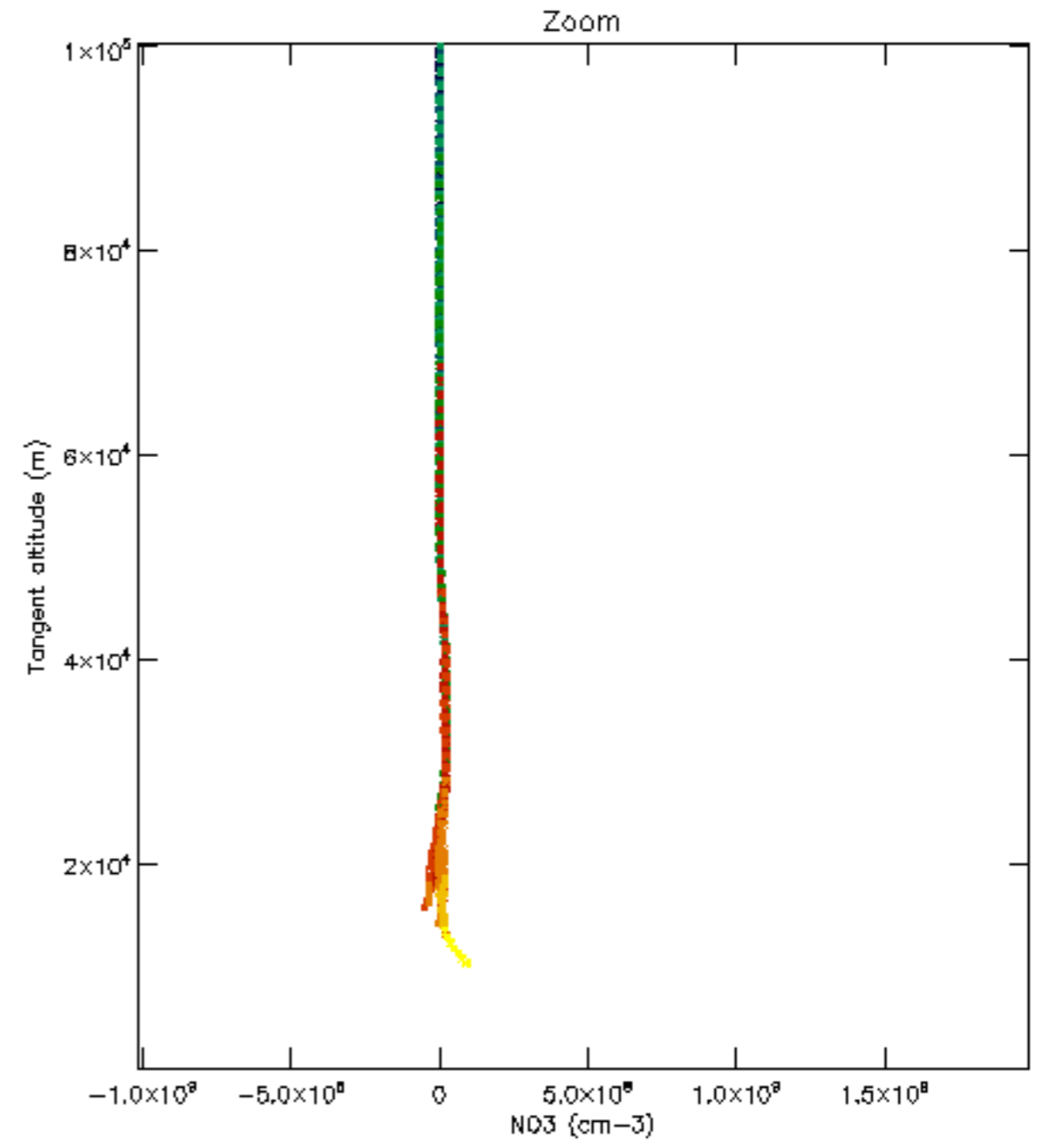
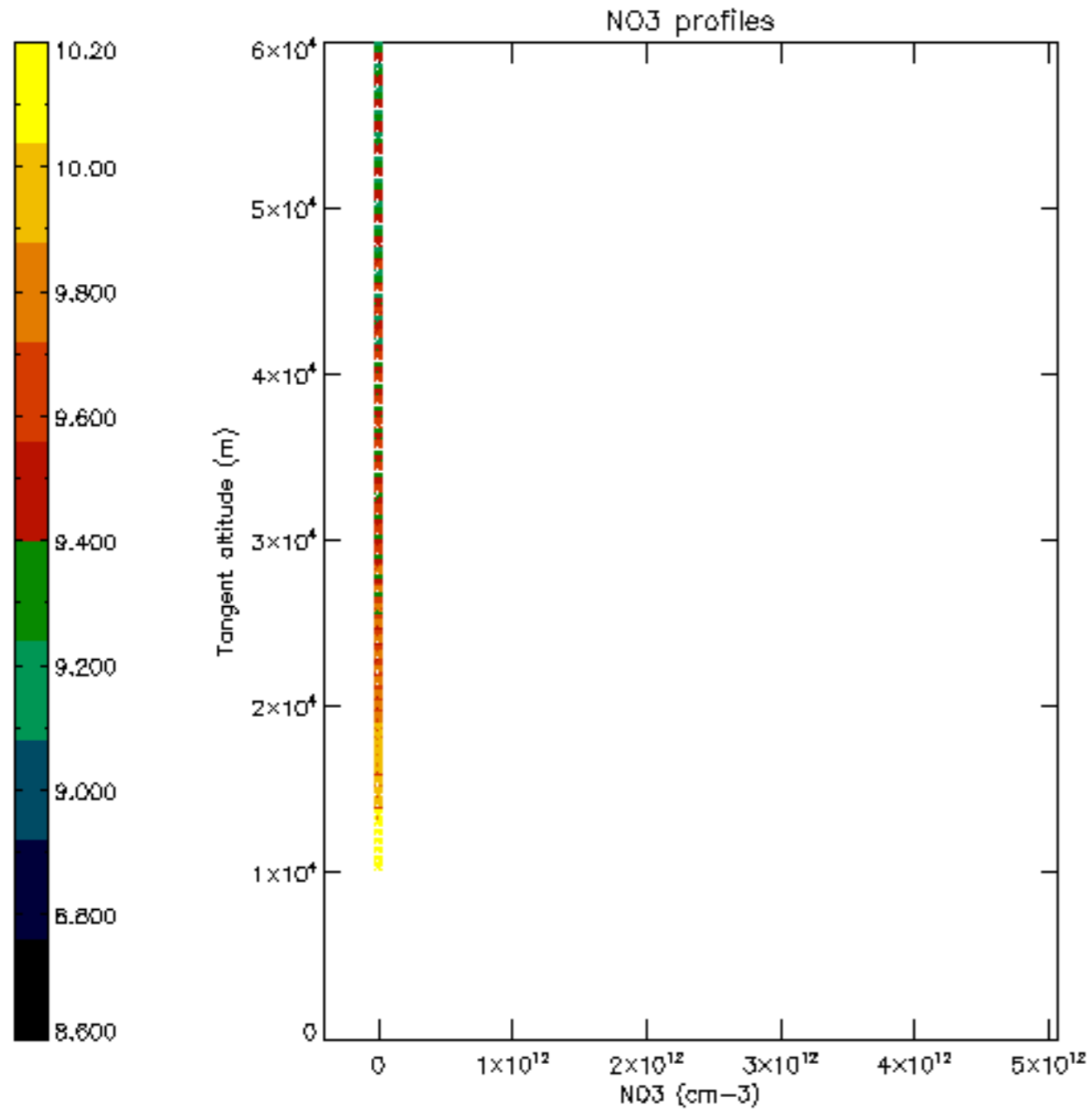


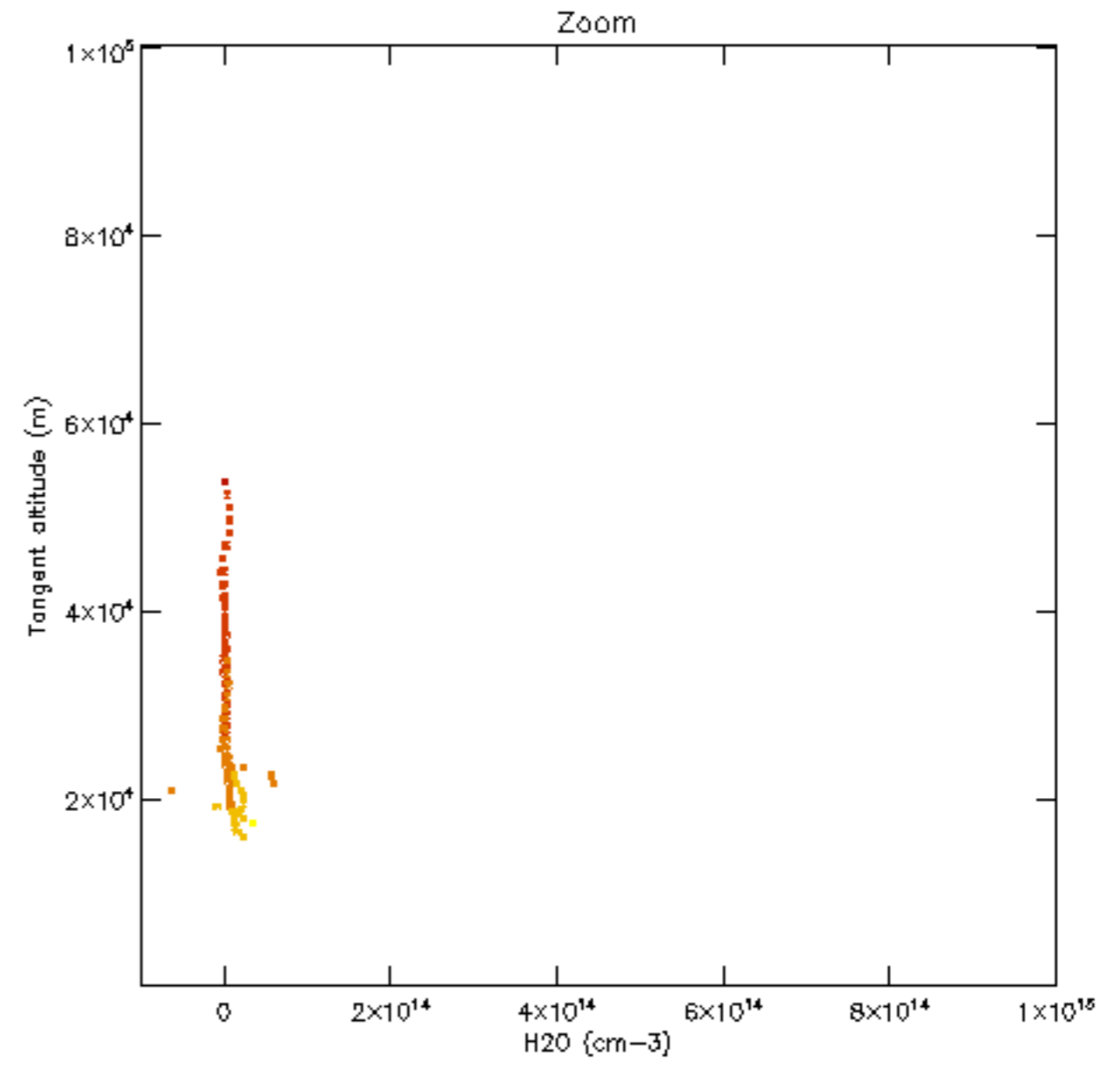
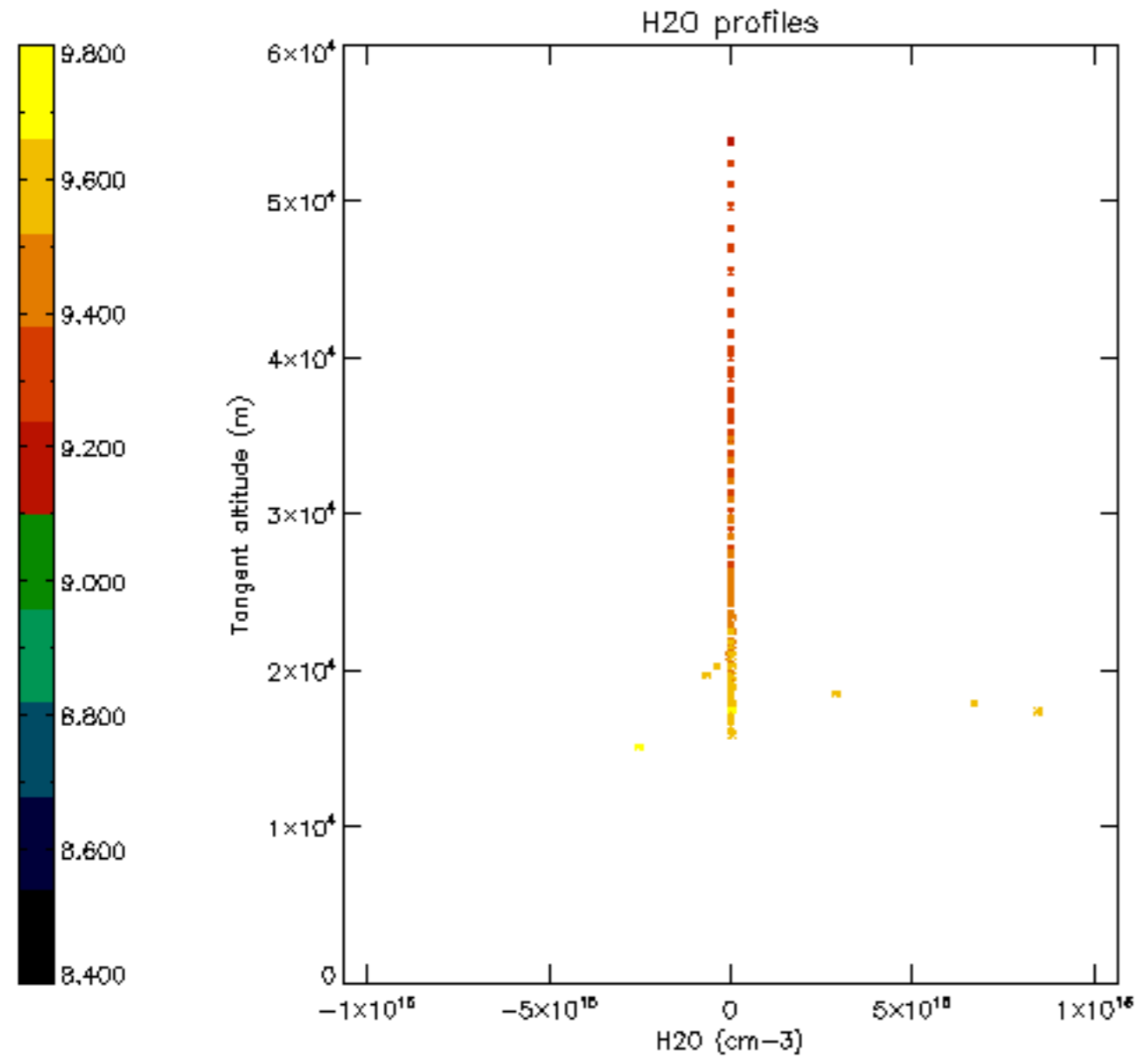


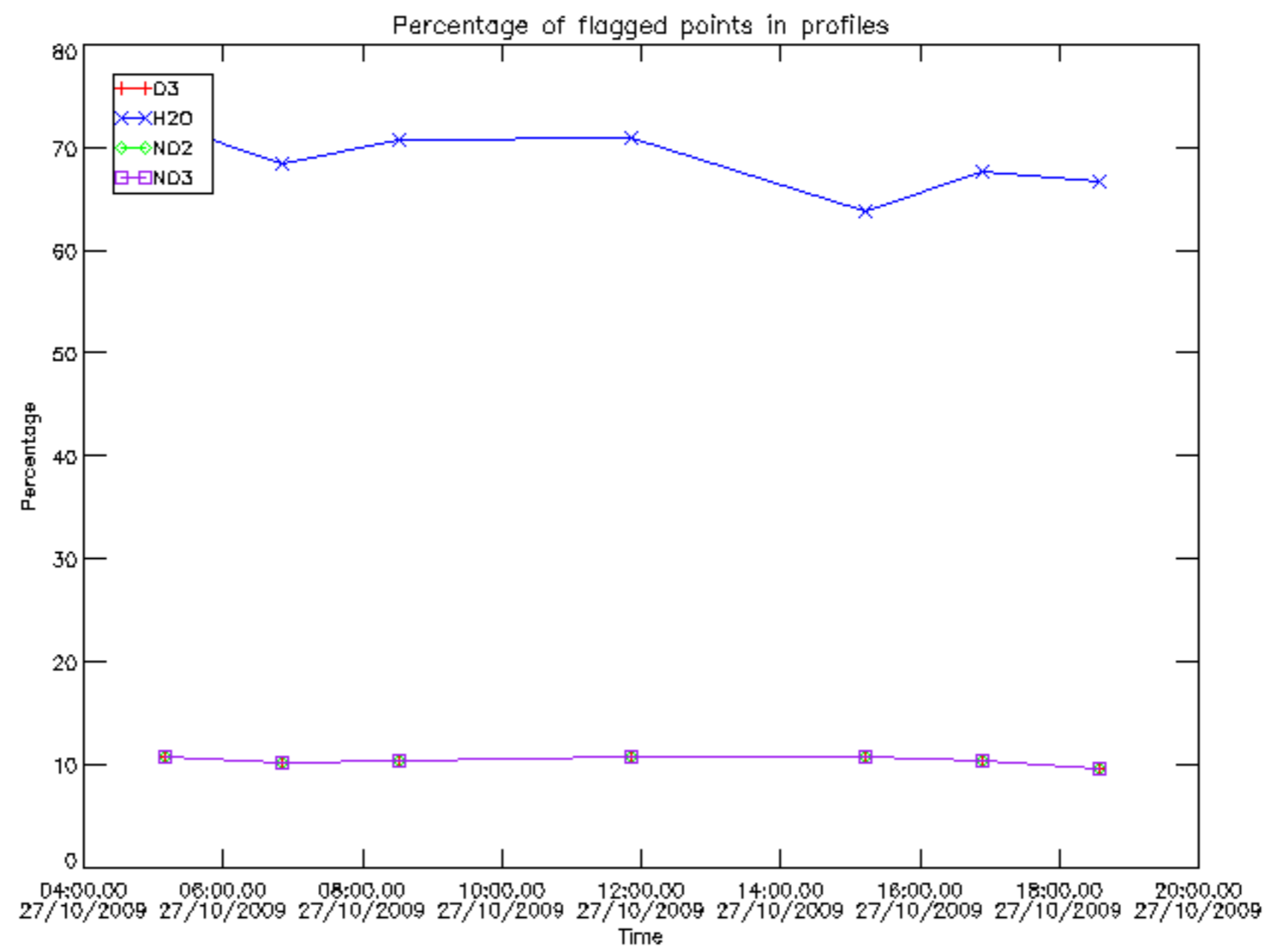




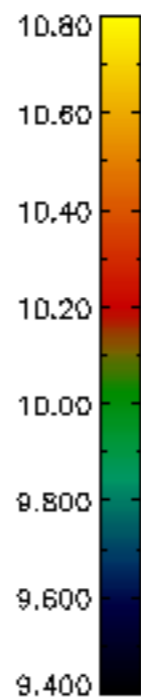
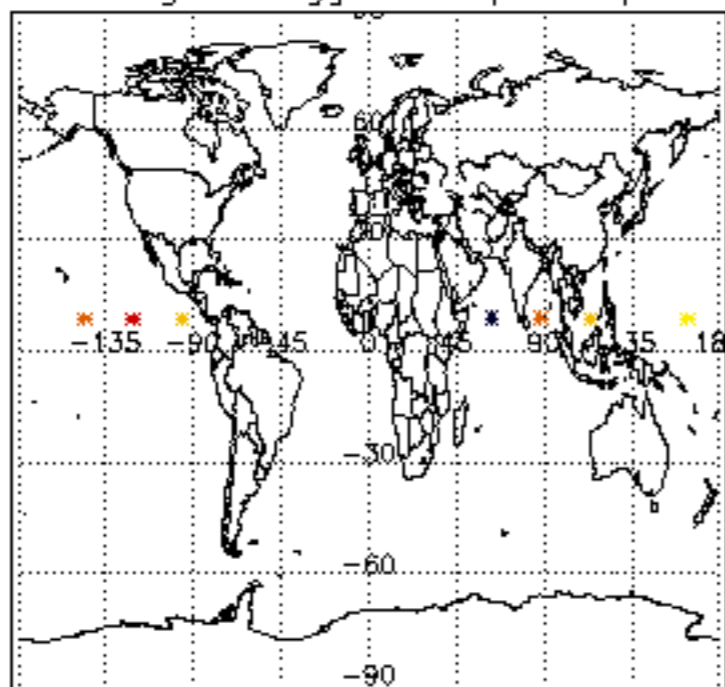




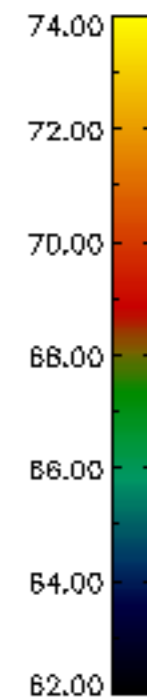
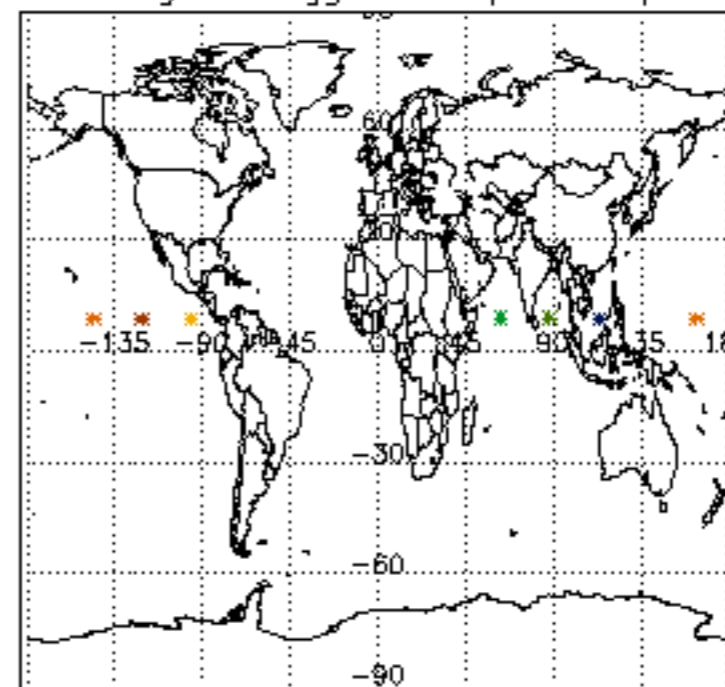




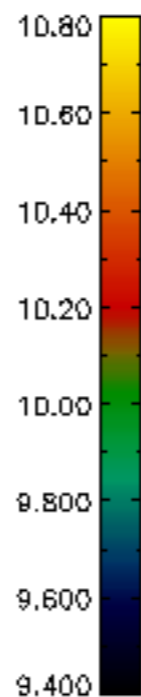
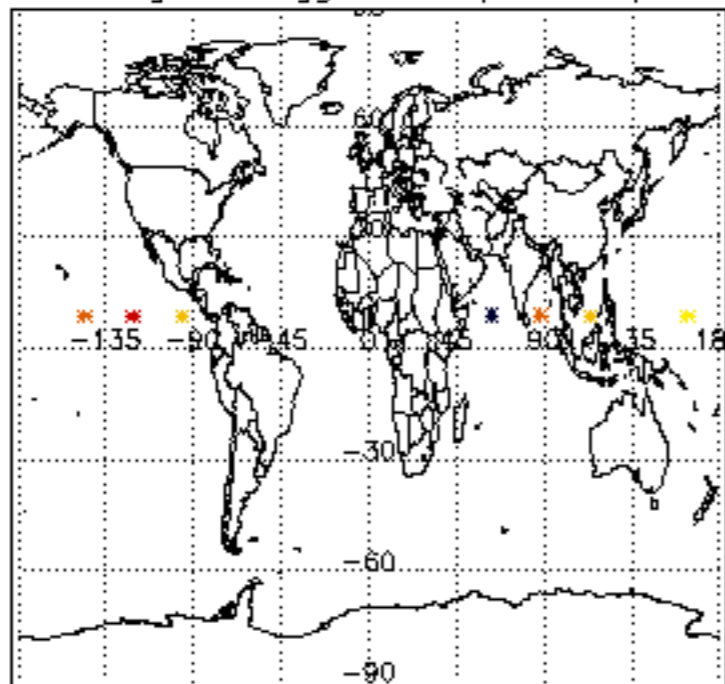
Percentage of flagged data per D3 profile



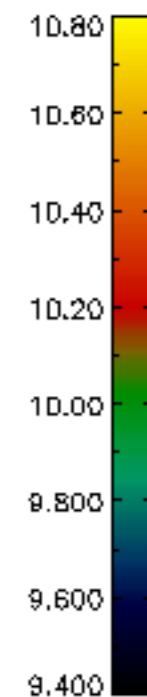
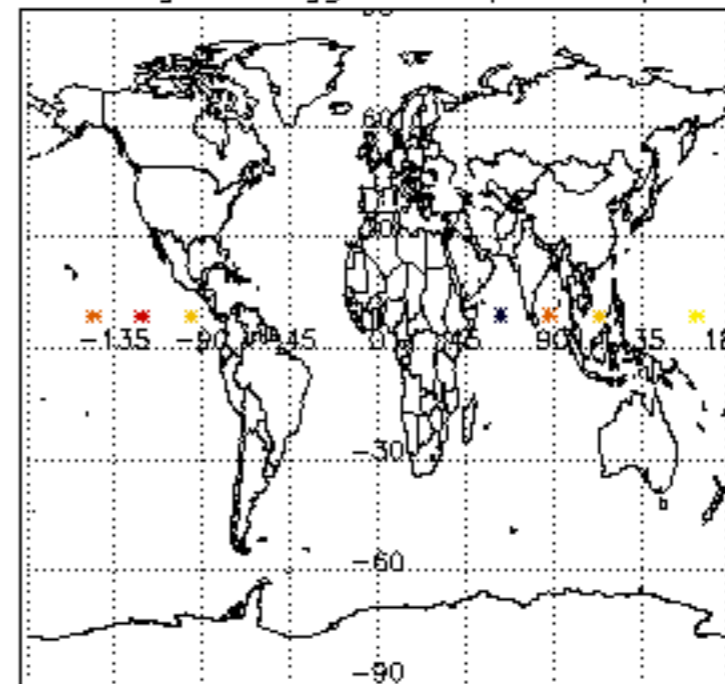
Percentage of flagged data per H2O profile



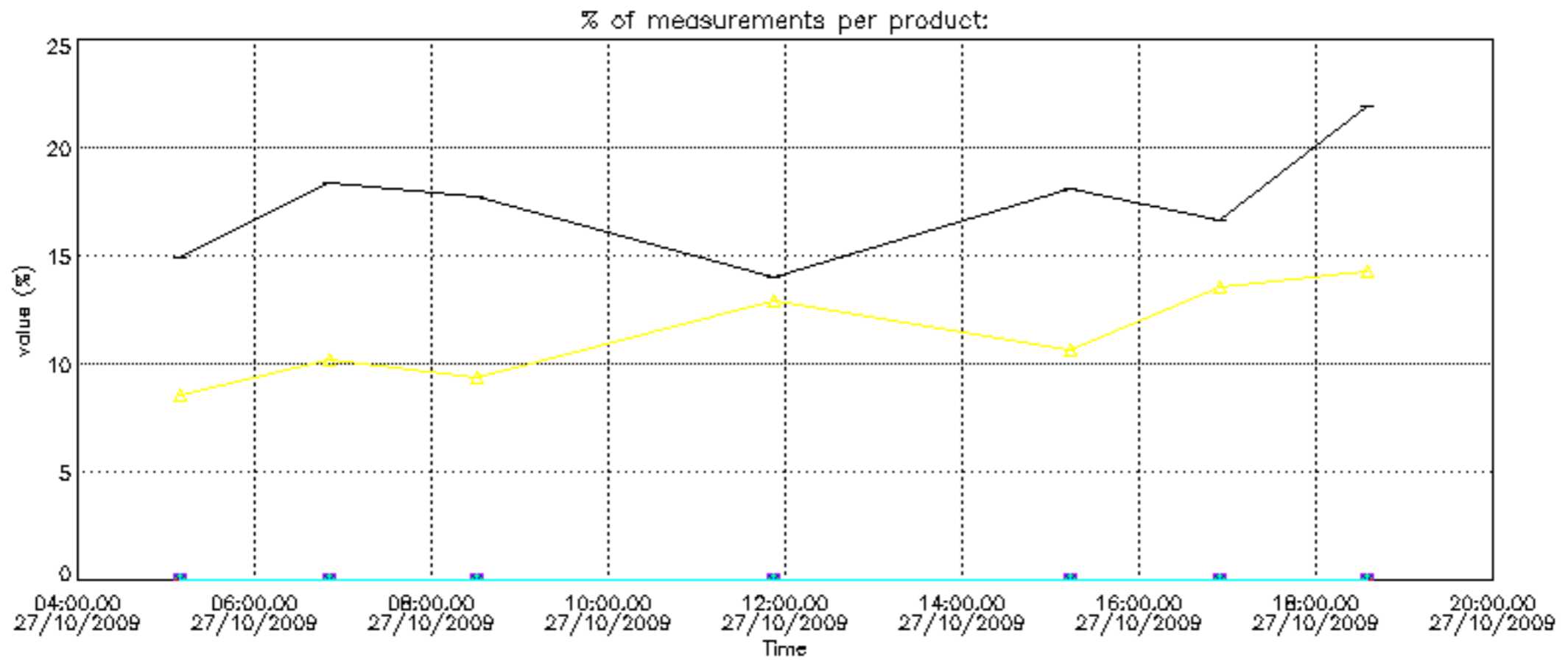
Percentage of flagged data per NO2 profile

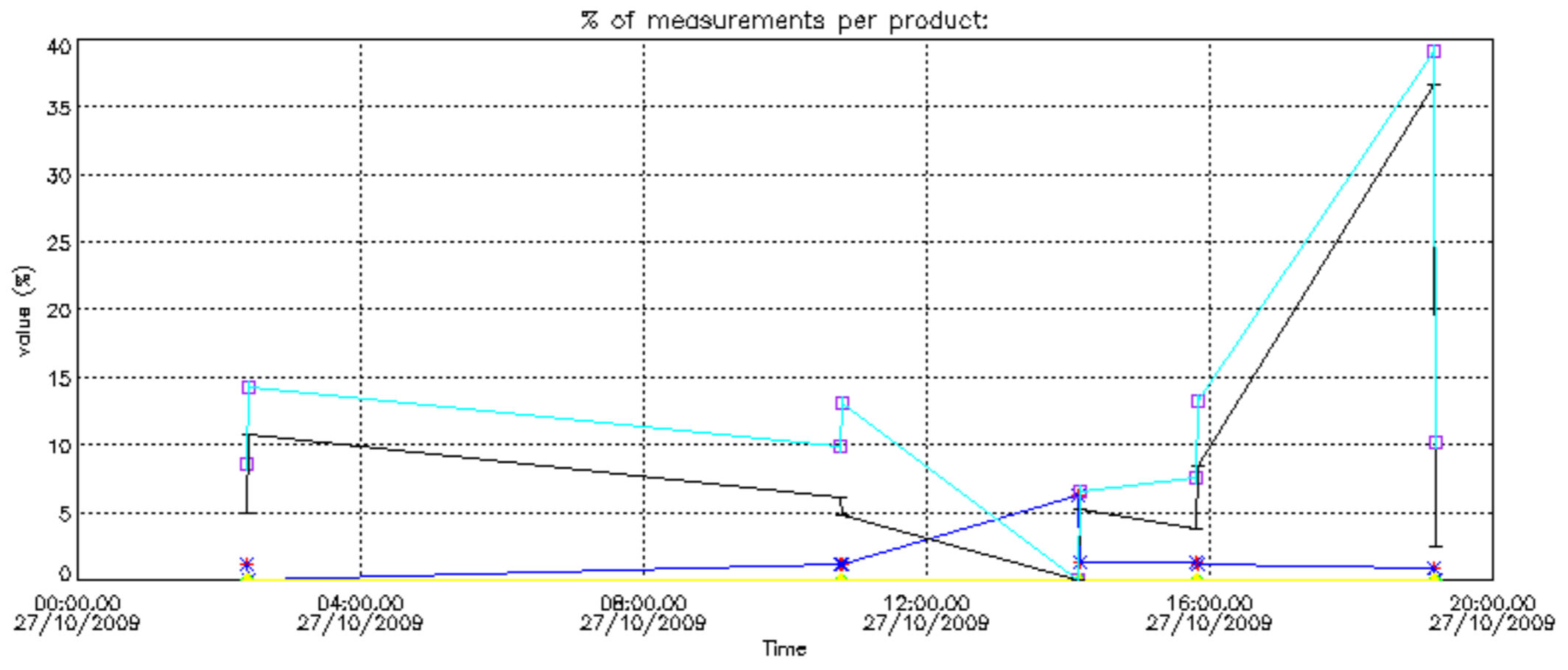


Percentage of flagged data per NO3 profile

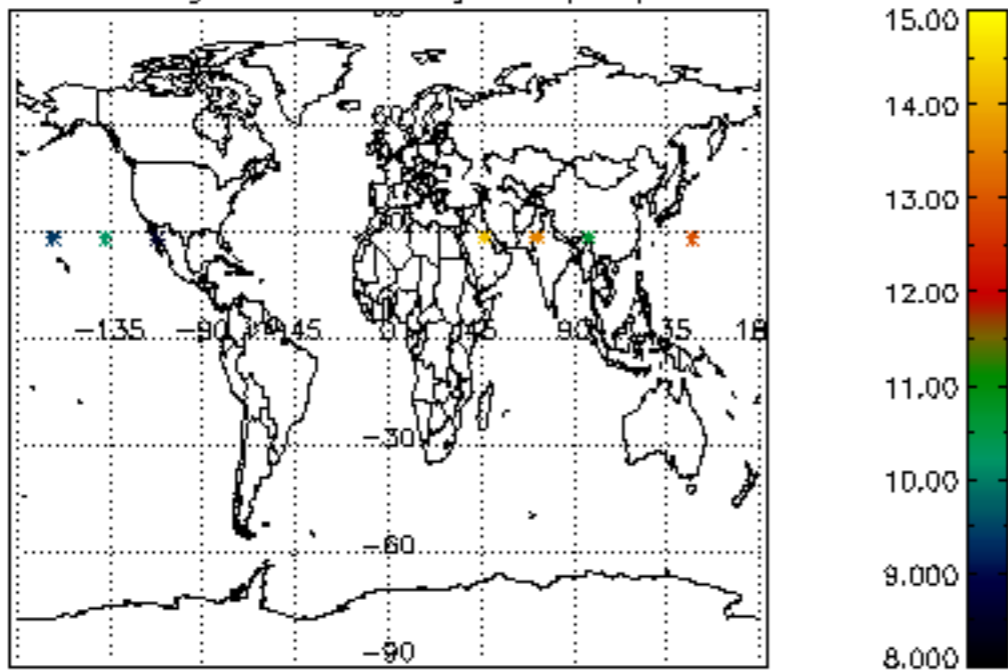




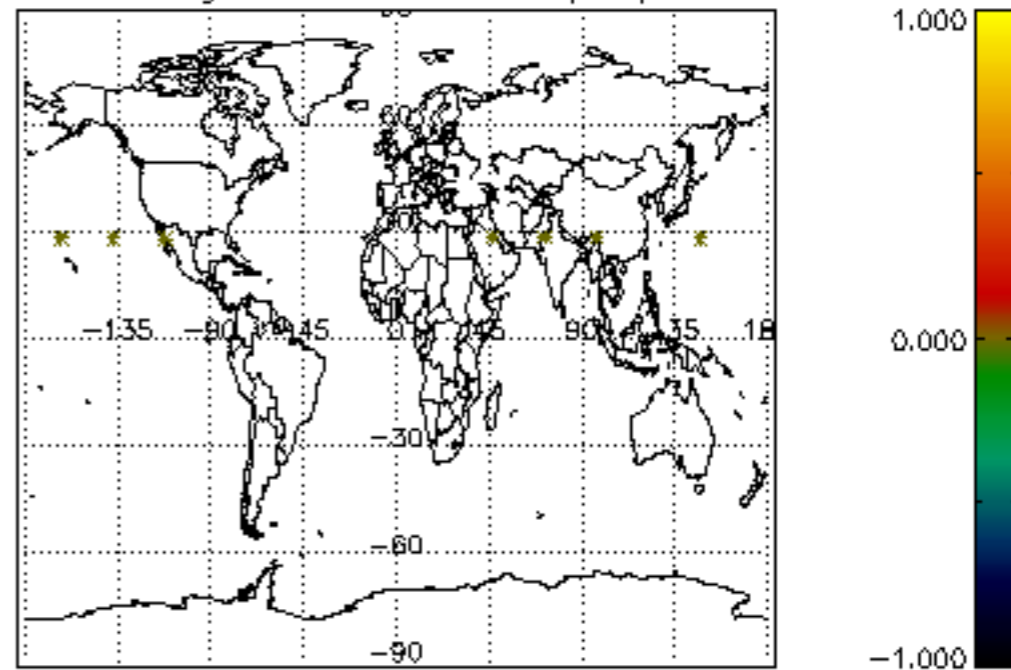




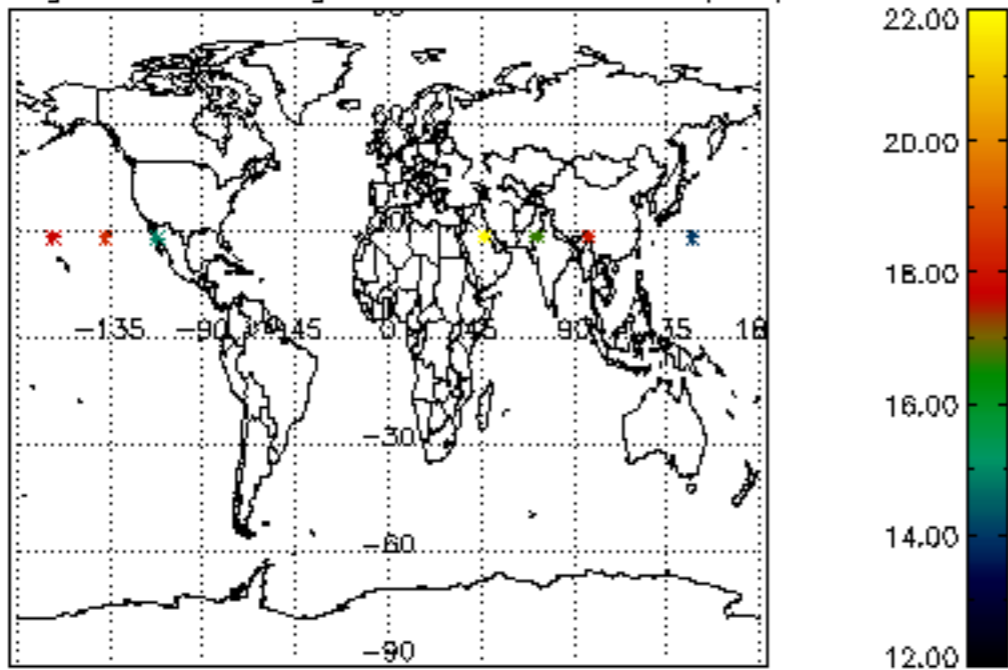
Percentage of cosmic ray hits per profile



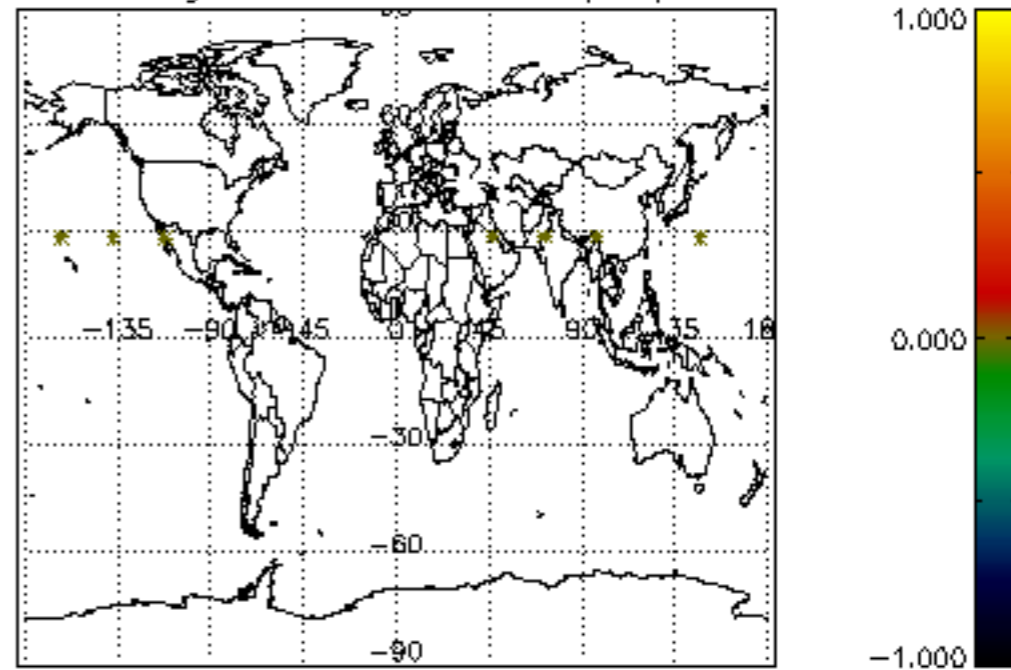
Percentage of datation errors per profile



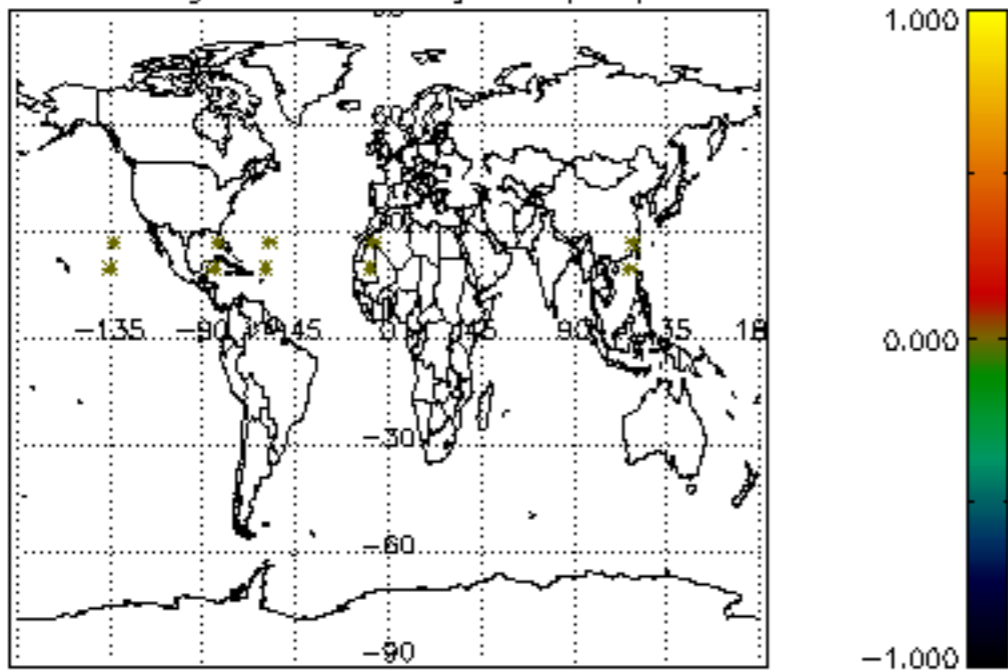
Percentage of star falling outside central band per profile



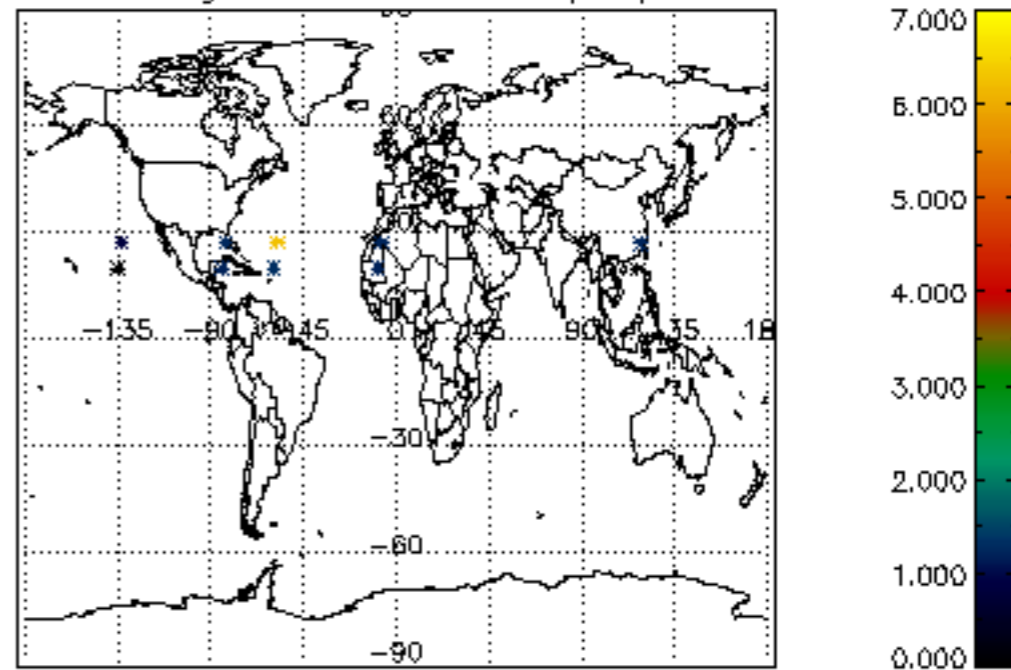
Percentage of saturation errors per profile



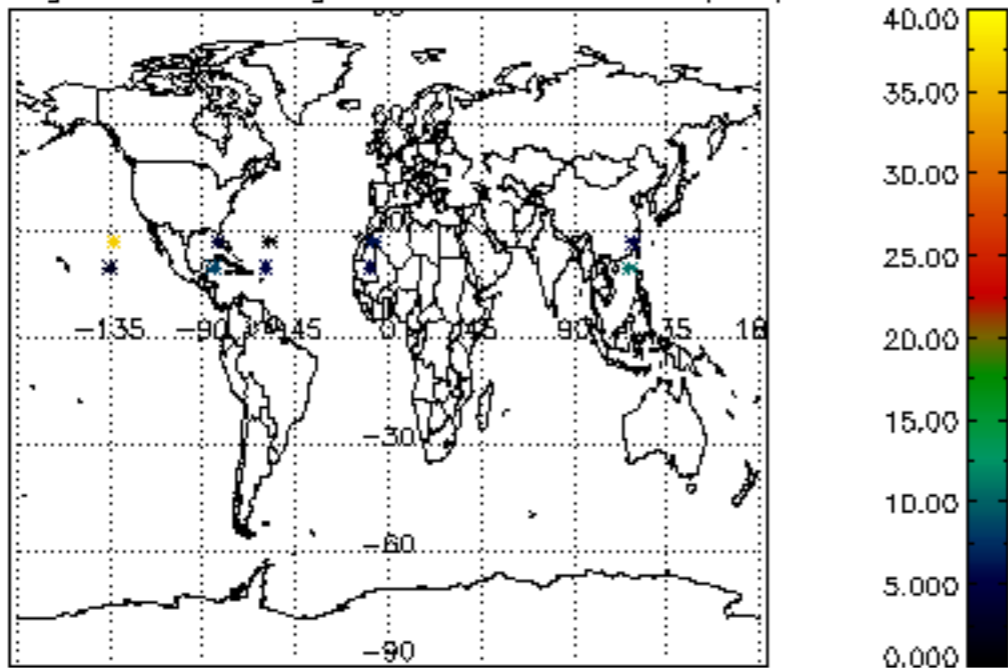
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

