

# GOMOS Level 2 Daily Report

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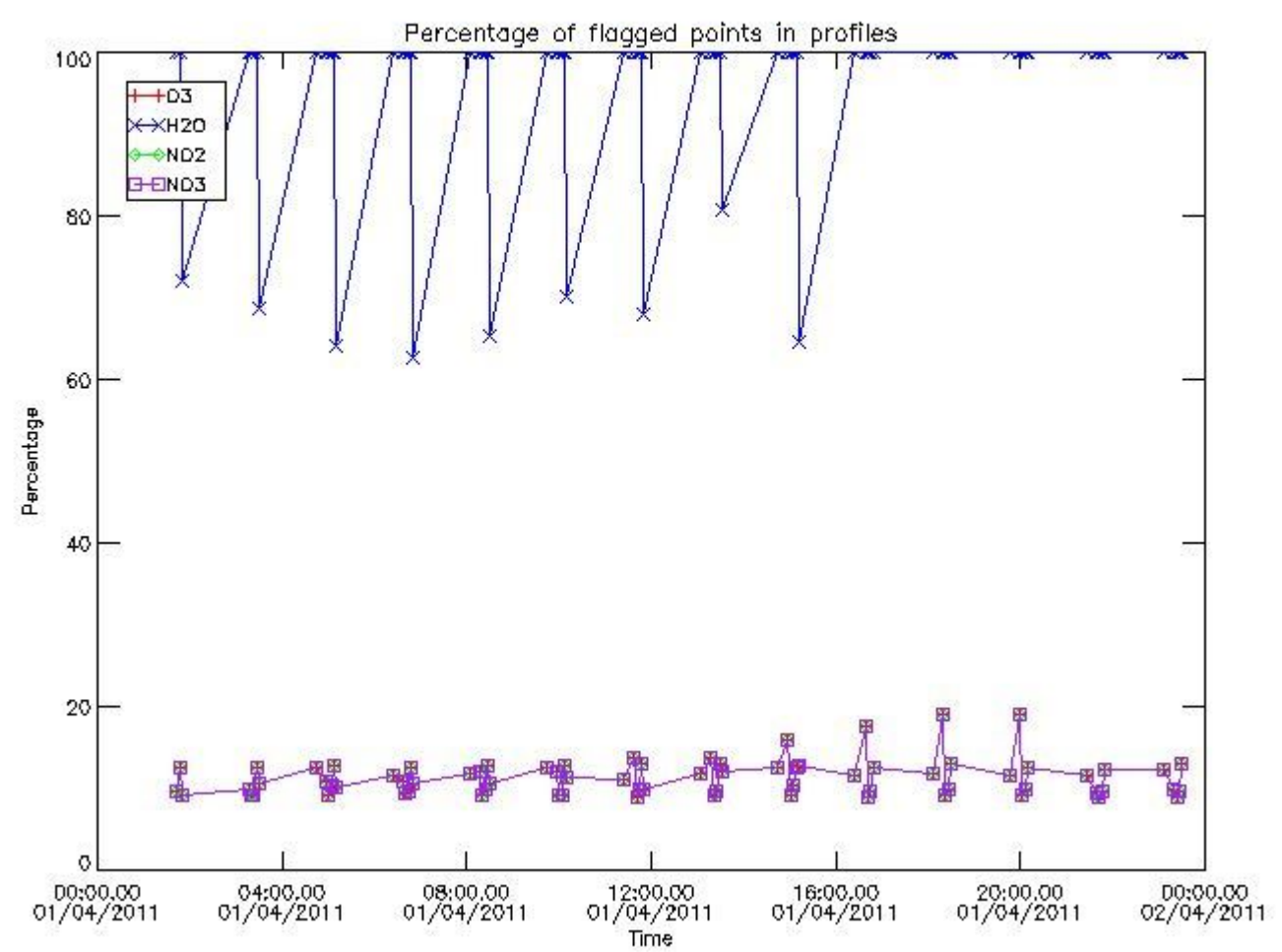


279	GOM_NL__2PRFIN20110401_220906_000000653101_00087_47515_7522.N1	01-APR-2011 22:09:06	Bright	64.500	15	67Alp Vir	0.97600	28000.	129	47515	No
280	GOM_NL__2PRFIN20110401_221219_000000443101_00087_47515_7523.N1	01-APR-2011 22:12:19	Bright	44.000	121	29Gam Vir	2.7400	7200.0	88	47515	No
281	GOM_NL__2PRFIN20110401_221657_000000393101_00087_47515_7524.N1	01-APR-2011 22:16:57	Bright	38.500	62	94Bet Leo	2.1360	9700.0	77	47515	No
282	GOM_NL__2PRFIN20110401_222521_000000533101_00087_47515_7525.N1	01-APR-2011 22:25:21	Bright	53.000	174	52Psi UMa	3.0040	4400.0	106	47515	No
283	GOM_NL__2PRFIN20110401_222819_000000373101_00087_47515_7526.N1	01-APR-2011 22:28:19	Bright	37.000	87	64Gam UMa	2.4330	11000.	74	47515	No
284	GOM_NL__2PRFIN20110401_223005_000000413101_00087_47515_7527.N1	01-APR-2011 22:30:05	Bright	40.500	32	77Eps UMa	1.7630	11000.	81	47515	No
285	GOM_NL__2PRFIN20110401_223624_000000373101_00087_47515_7528.N1	01-APR-2011 22:36:24	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	47515	No
286	GOM_NL__2PRFIN20110401_224552_000000383101_00087_47515_7529.N1	01-APR-2011 22:45:52	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	47515	No
287	GOM_NL__2PRFIN20110401_225045_000000473101_00087_47515_7530.N1	01-APR-2011 22:50:45	Bright	46.500	144	18Del Cyg	2.8600	11000.	93	47515	No
288	GOM_NL__2PRFIN20110401_225242_000000463101_00087_47515_7531.N1	01-APR-2011 22:52:42	Bright	45.500	66	37Gam Cyg	2.2080	5900.0	91	47515	No
289	GOM_NL__2PRFIN20110401_225445_000000453101_00087_47515_7532.N1	01-APR-2011 22:54:45	Bright	44.500	92	53Eps Cyg	2.5000	4500.0	89	47515	No
290	GOM_NL__2PRFIN20110401_230121_000000443101_00087_47515_7533.N1	01-APR-2011 23:01:21	Twilight	44.000	61	8Eps Peg	2.1000	3900.0	88	47515	No
291	GOM_NL__2PRFIN20110401_230557_000000463101_00087_47515_7534.N1	01-APR-2011 23:05:57	Dark	45.500	154	22Bet Aqr	2.8990	5700.0	91	47515	No
292	GOM_NL__2PRFIN20110401_231919_000000523101_00087_47515_7535.N1	01-APR-2011 23:19:19	Dark	51.500	103	38Zet Sgr	2.6000	9700.0	103	47515	No
293	GOM_NL__2PRFIN20110401_232252_000000583101_00088_47516_7534.N1	01-APR-2011 23:22:52	Dark	57.500	38	20Eps Sgr	1.8360	11000.	115	47516	No
294	GOM_NL__2PRFIN20110401_232635_000000533101_00088_47516_7535.N1	01-APR-2011 23:26:35	Dark	53.000	40	The Sco	1.8590	7100.0	106	47516	No
295	GOM_NL__2PRFIN20110401_233004_000000403101_00088_47516_7536.N1	01-APR-2011 23:30:04	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	47516	No
296	GOM_NL__2PRFIN20110401_233528_000000443101_00088_47516_7537.N1	01-APR-2011 23:35:28	Straylight	44.000	78	Alp Lup	2.3040	28000.	88	47516	No
297	GOM_NL__2PRFIN20110401_233704_000000493101_00088_47516_7538.N1	01-APR-2011 23:37:04	Straylight	49.000	81	Eta Cen	2.3560	28000.	98	47516	No
298	GOM_NL__2PRFIN20110401_233945_000000543101_00088_47516_7539.N1	01-APR-2011 23:39:45	Straylight	54.000	54	5The Cen	2.0550	4500.0	108	47516	No
299	GOM_NL__2PRFIN20110401_234538_000000473101_00088_47516_7540.N1	01-APR-2011 23:45:38	Twilight	47.000	106	9Bet Crv	2.6480	5600.0	94	47516	No
300	GOM_NL__2PRFIN20110401_234735_000000453101_00088_47516_7541.N1	01-APR-2011 23:47:35	Twilight	45.000	100	4Gam Crv	2.5800	13100.	90	47516	No
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303	GOM_NL__2PRFIN20110401_235710_000000393101_00088_47516_7544.N1	01-APR-2011 23:57:10	Bright	38.500	62	94Bet Leo	2.1360	9700.0	77	47516	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.

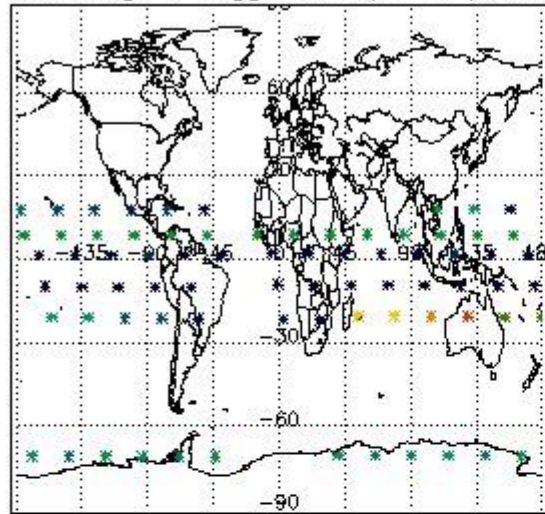
#### 3.1 Plot quality information per product (time dependant)



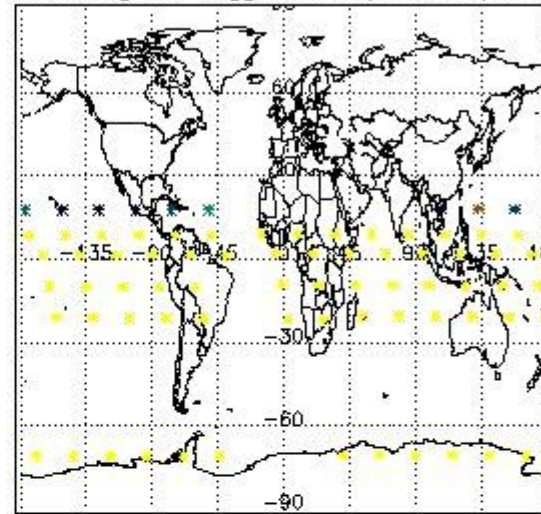
3.2 Plot quality information per product (world map)



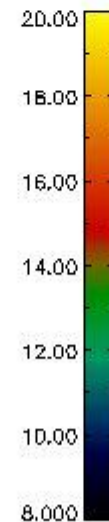
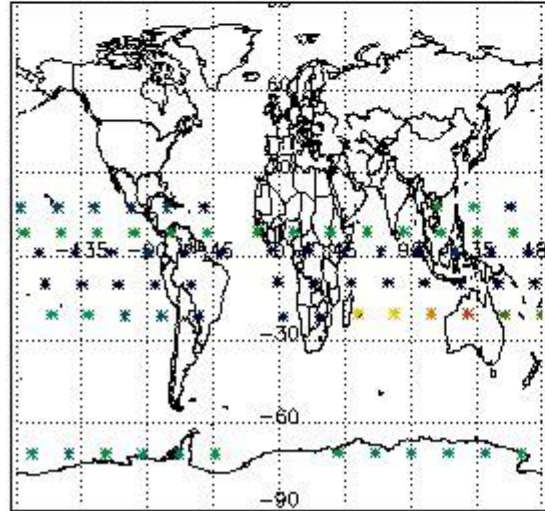
Percentage of flagged data per O3 profile



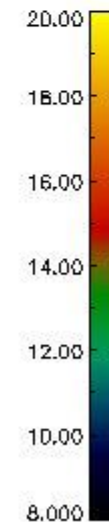
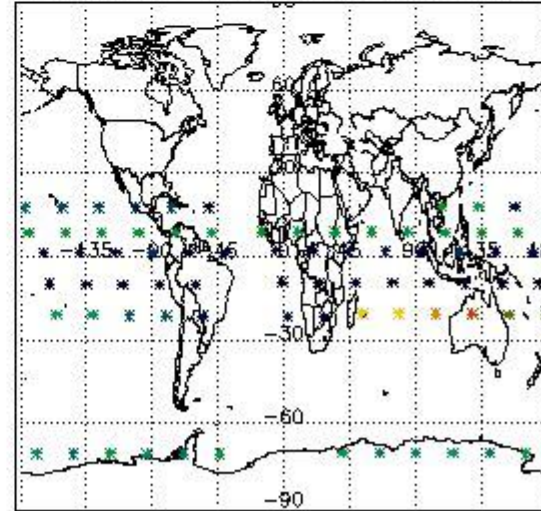
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

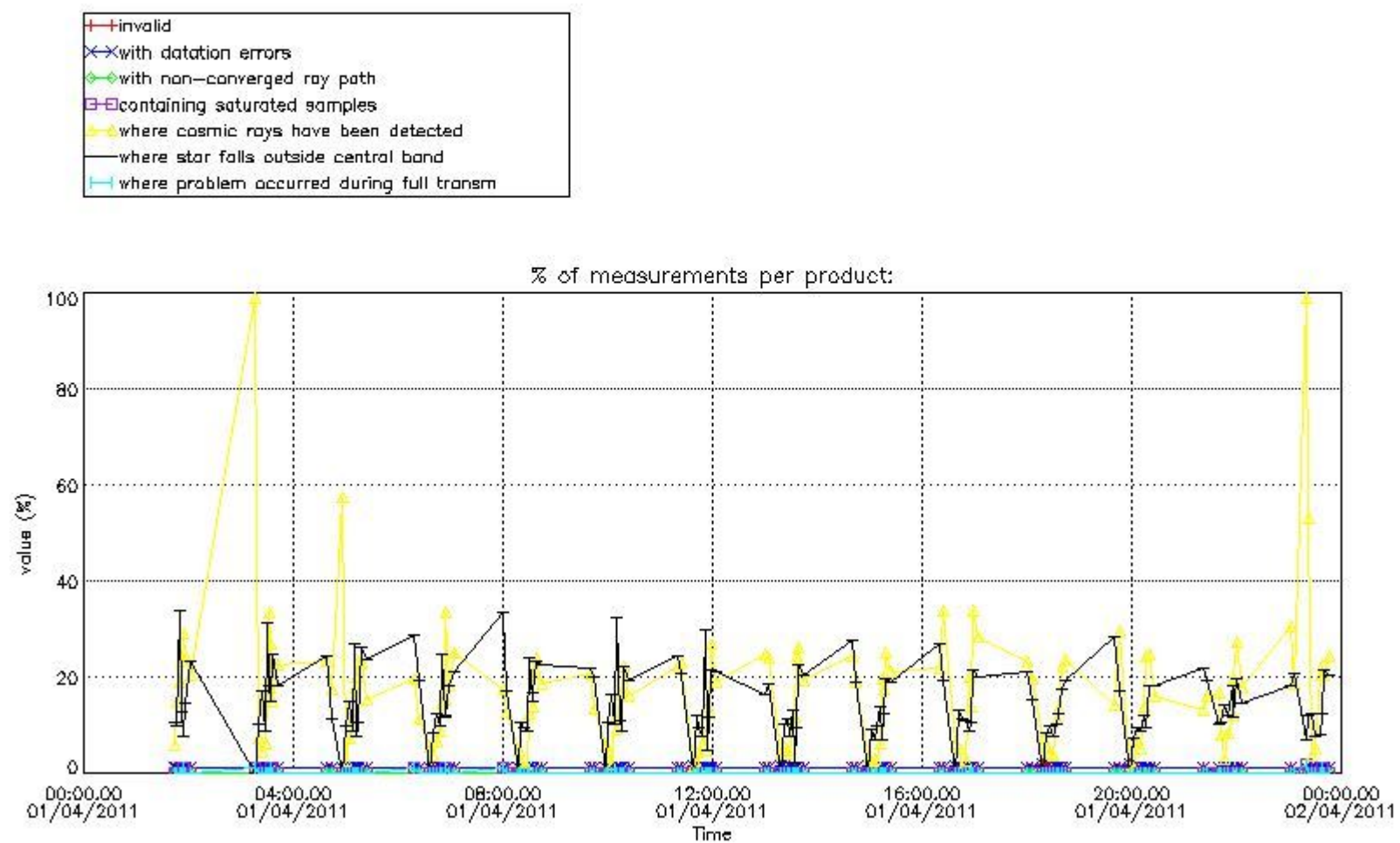


#### 4. Level 1 quality information per product

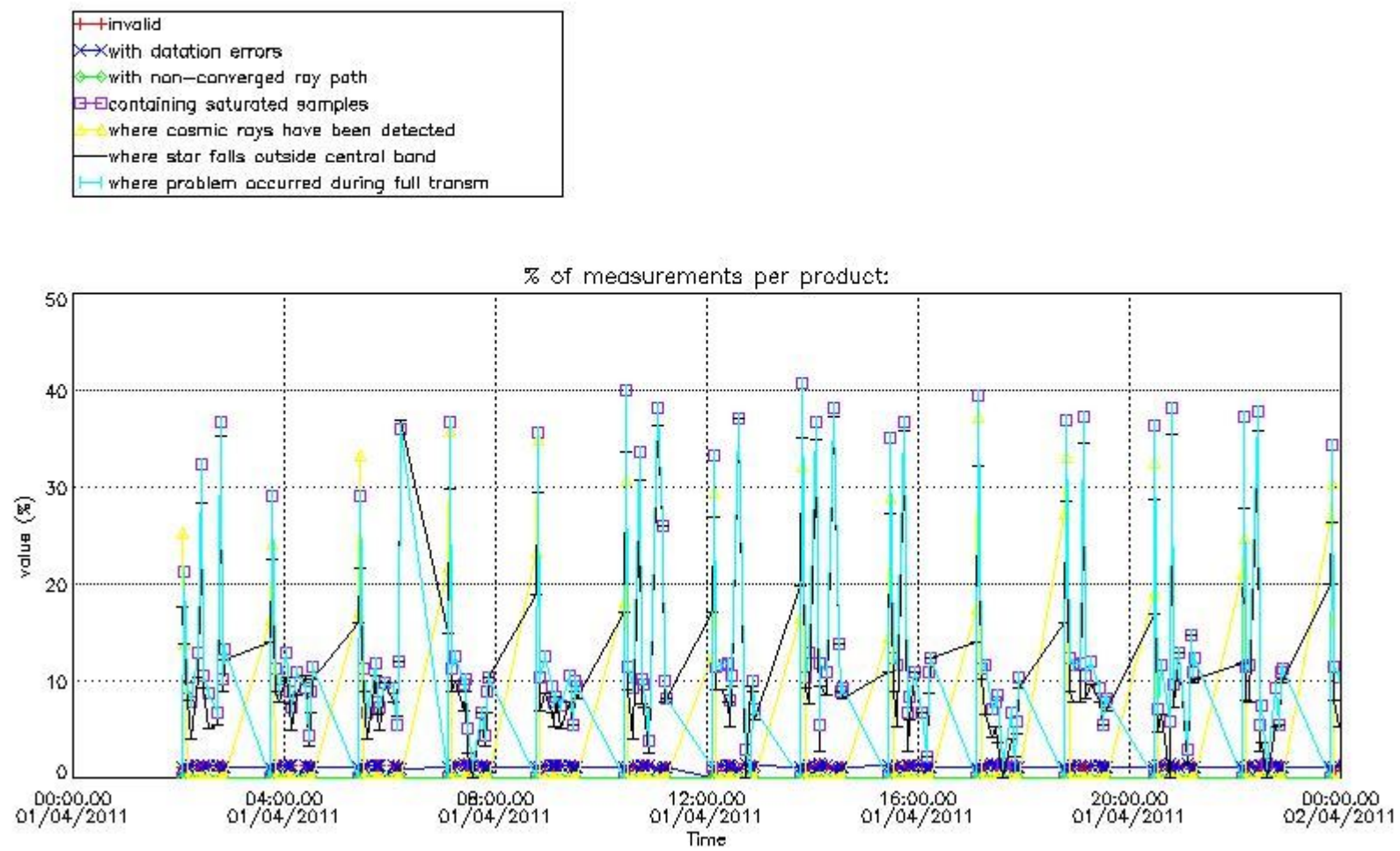
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

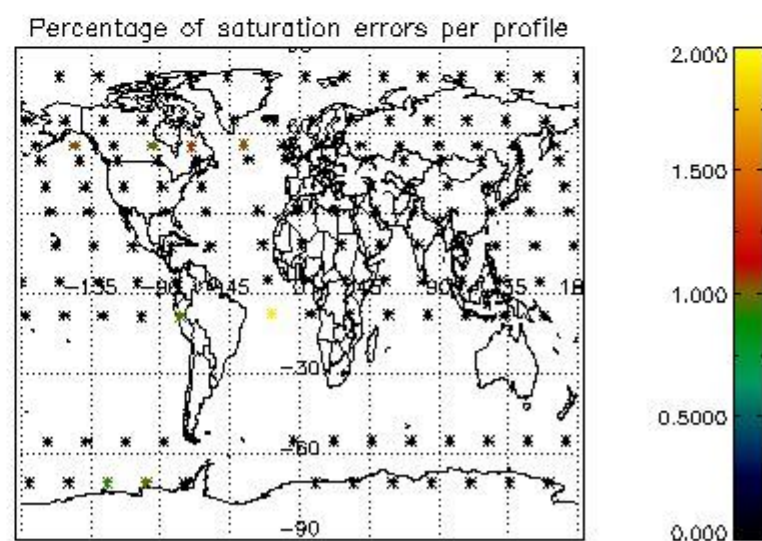
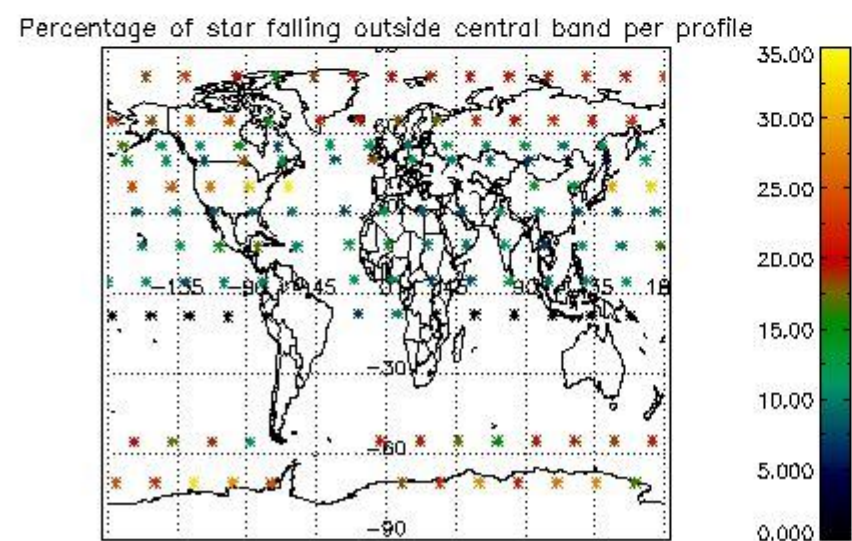
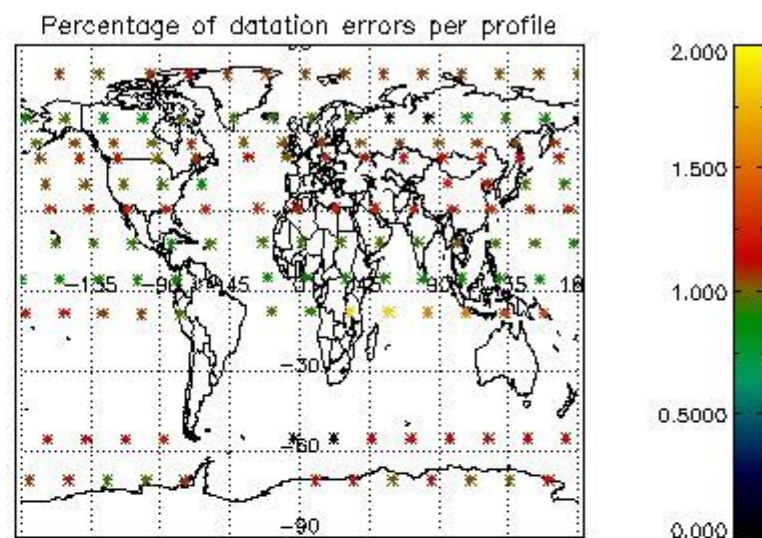
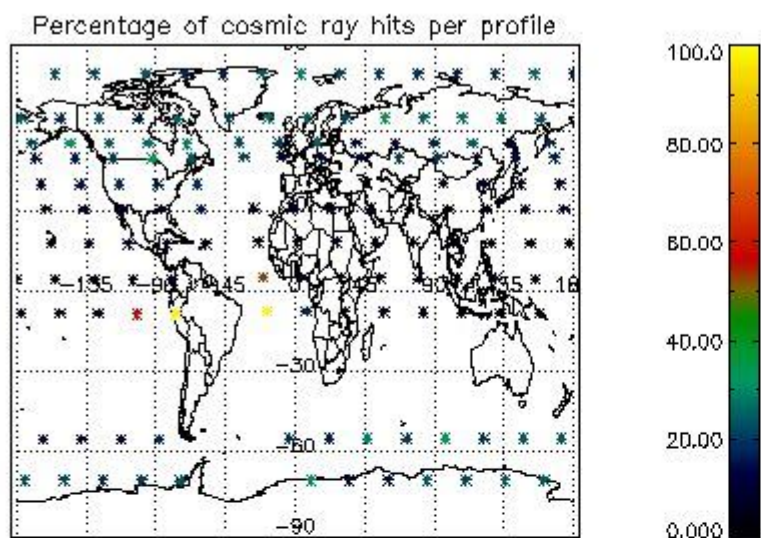


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



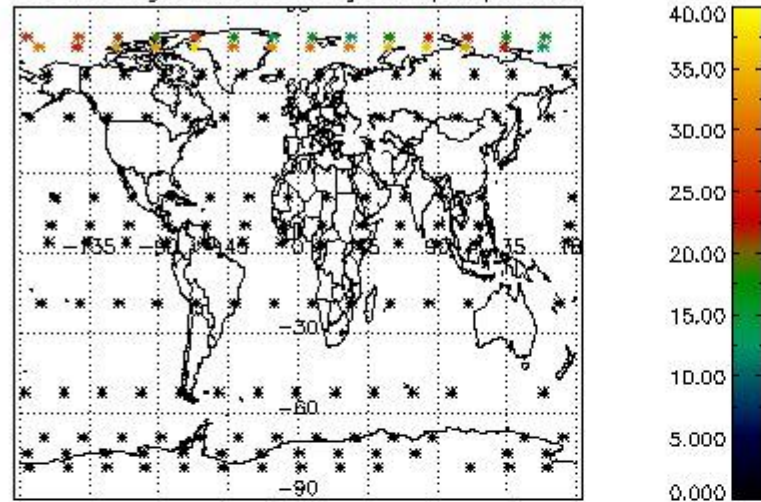
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

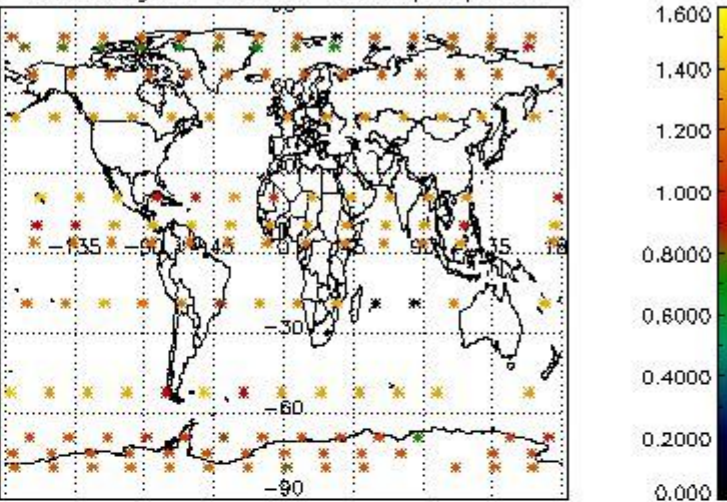


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

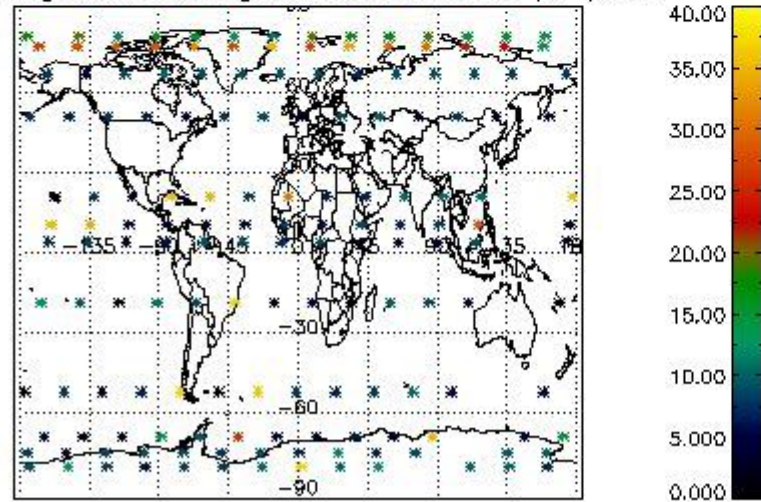
Percentage of cosmic ray hits per profile



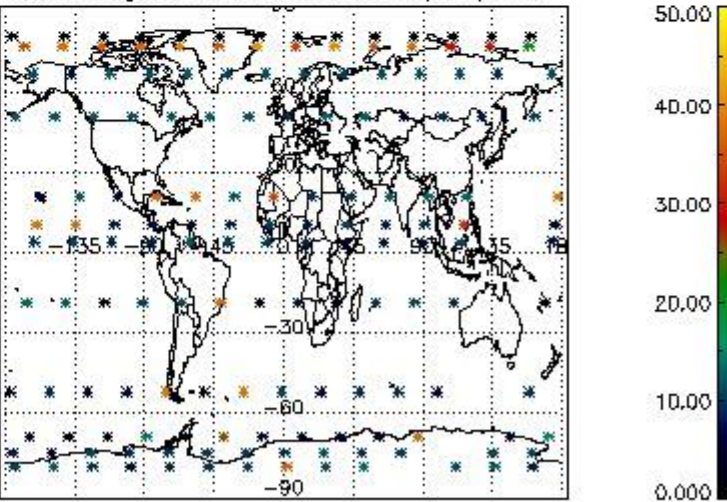
Percentage of datation errors per profile



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

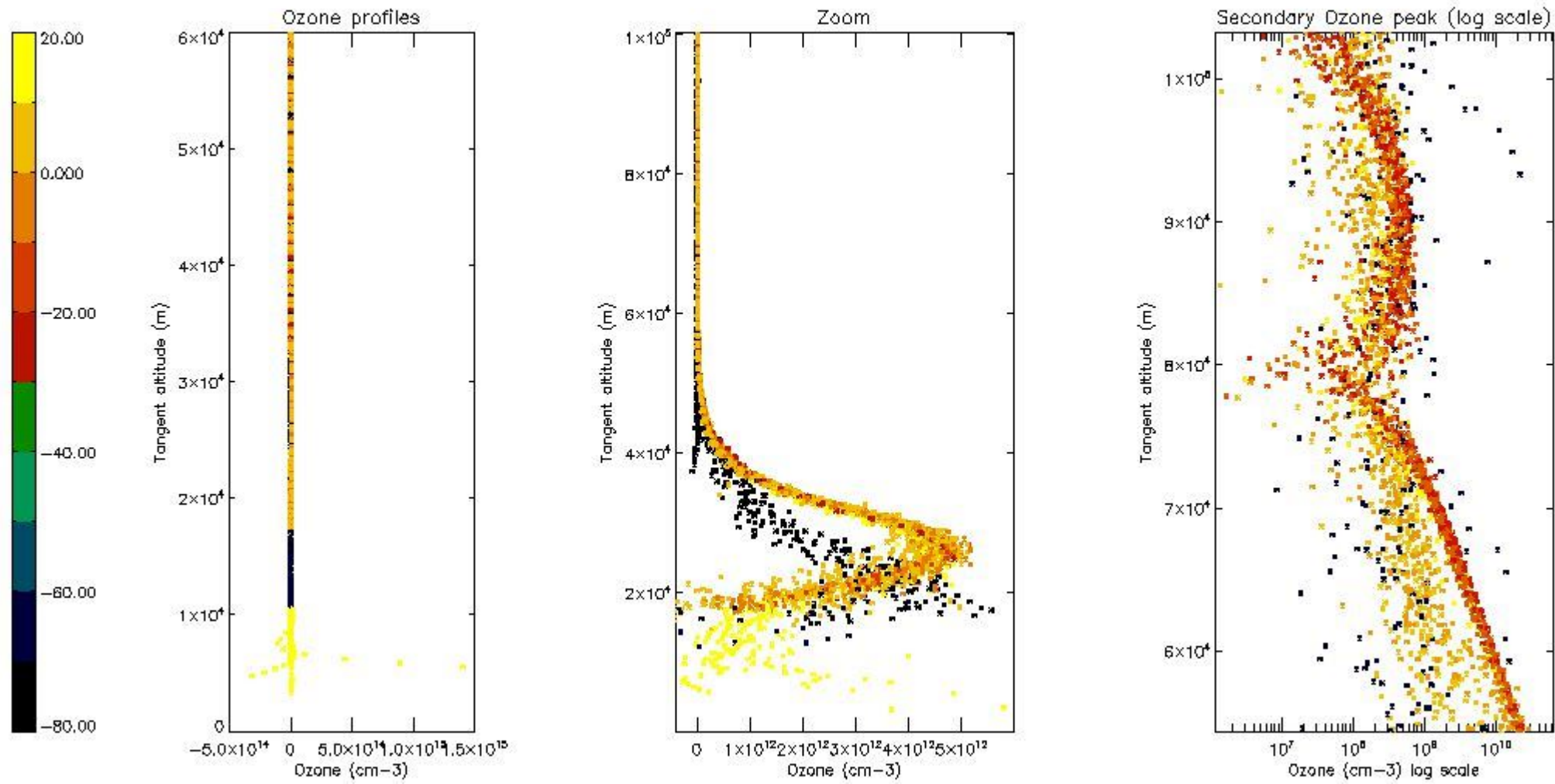
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	11

STD < 10	8
STD < 5	5

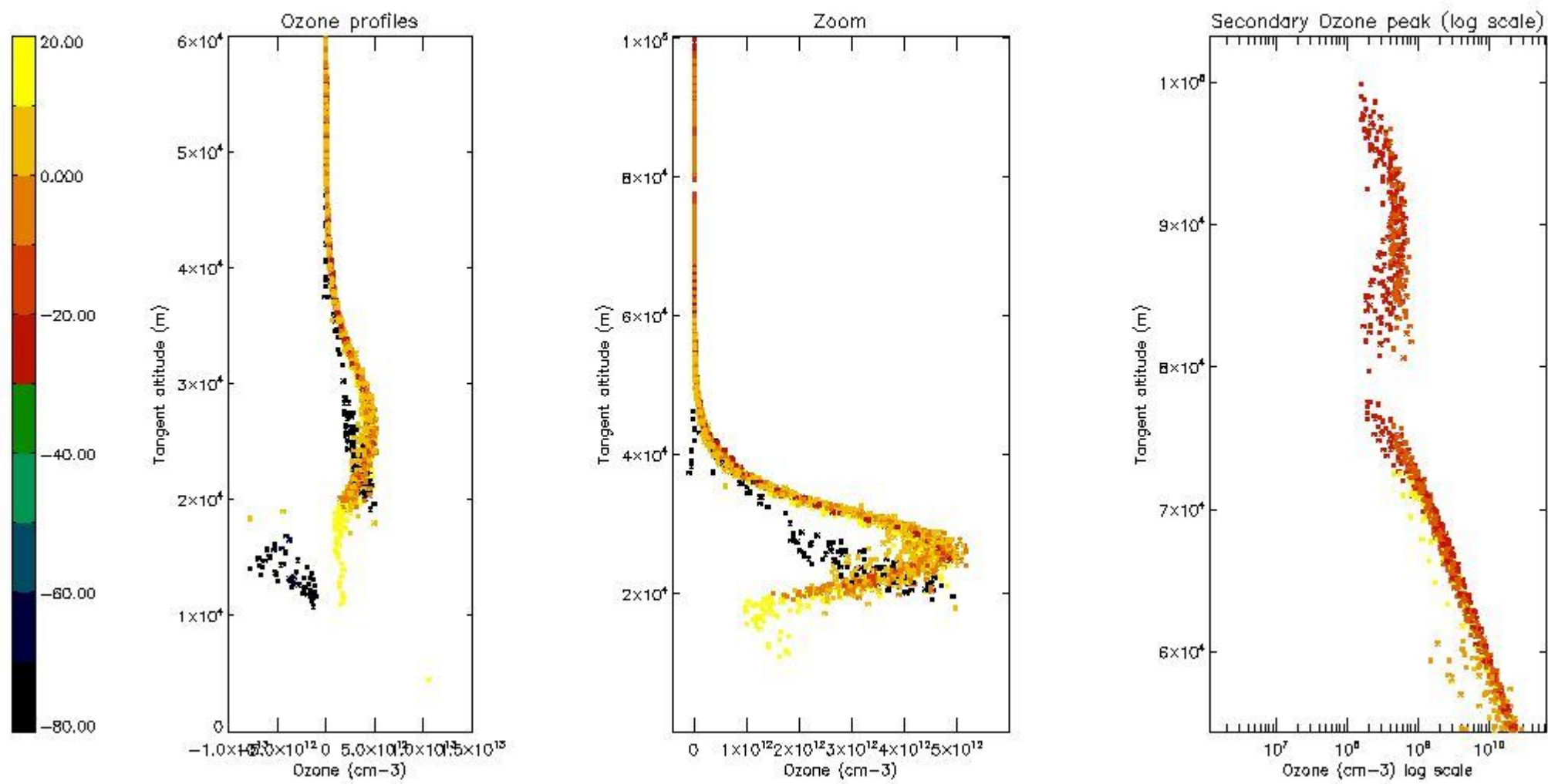
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



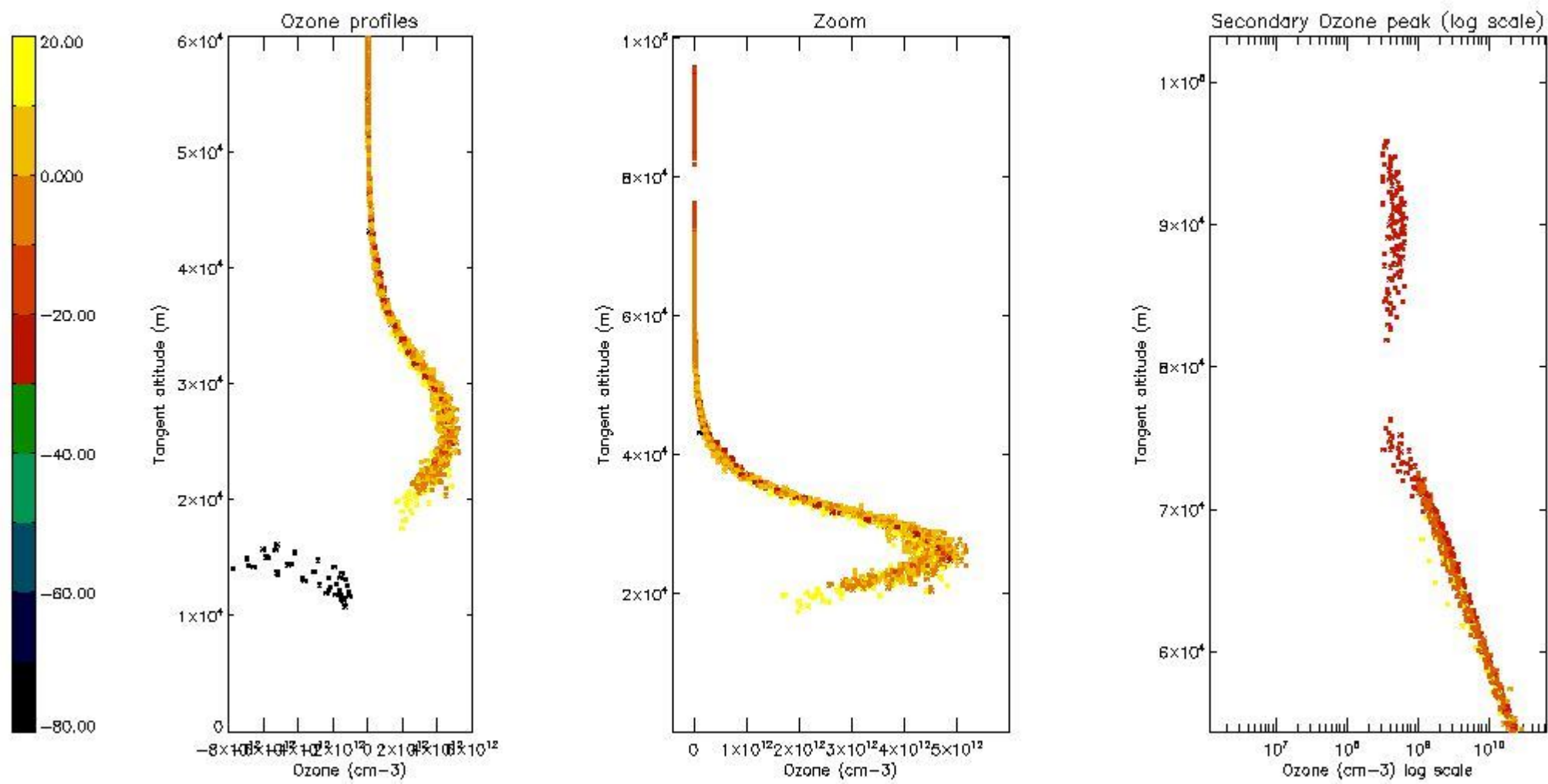
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

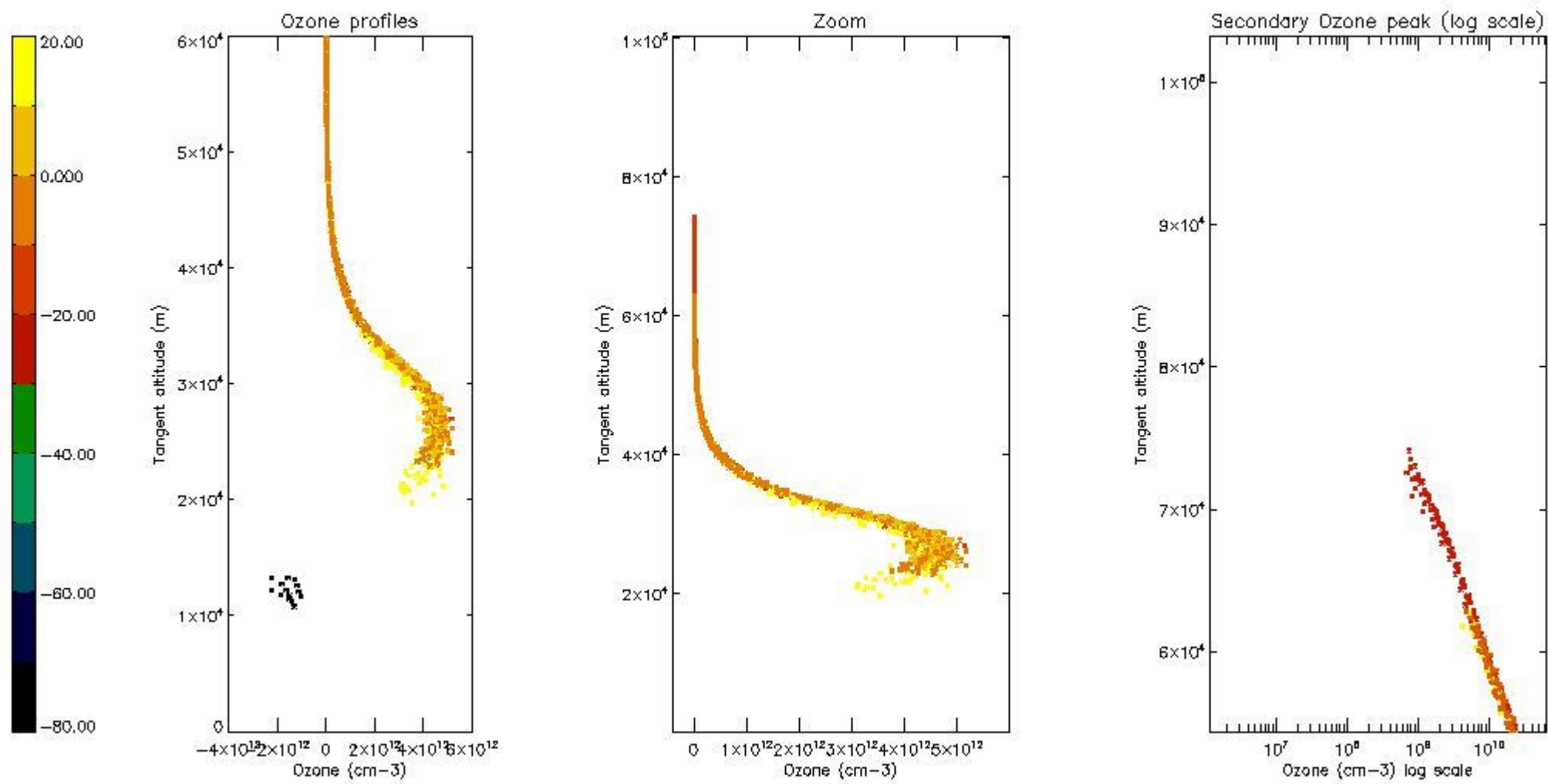
The colorbar represents the latitude.



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

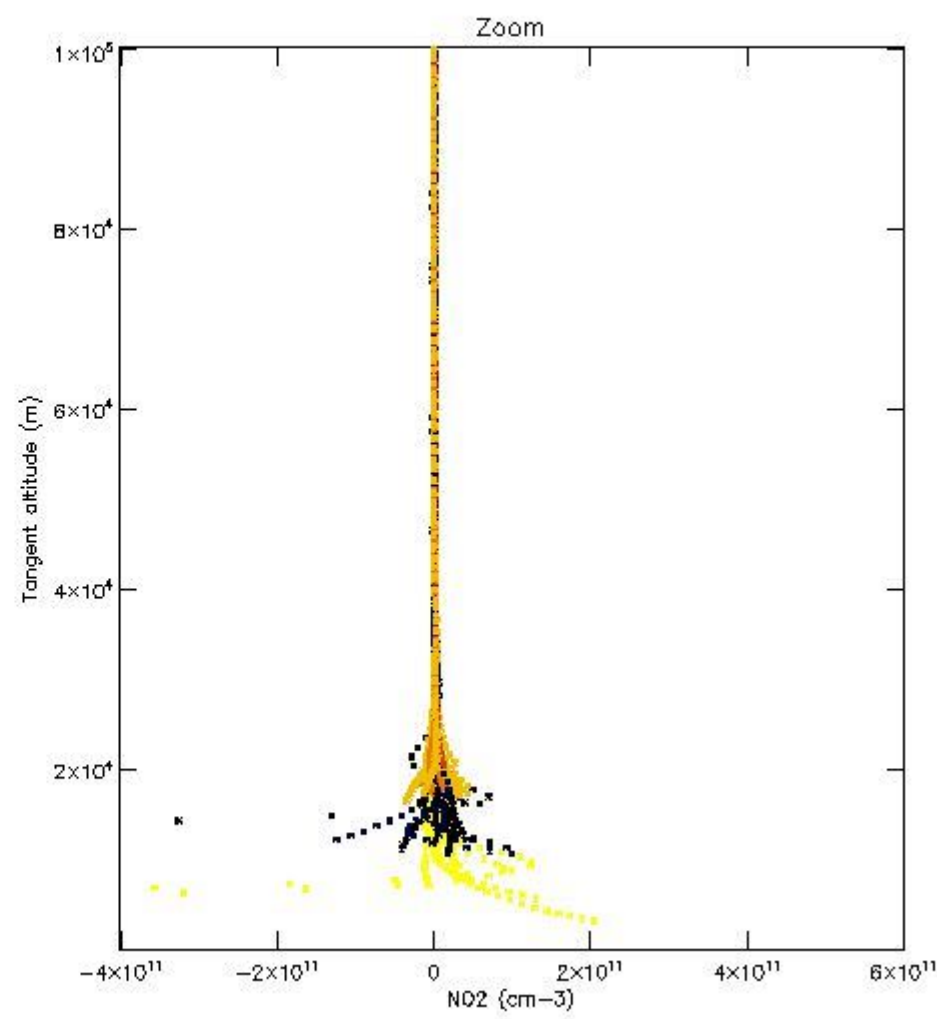
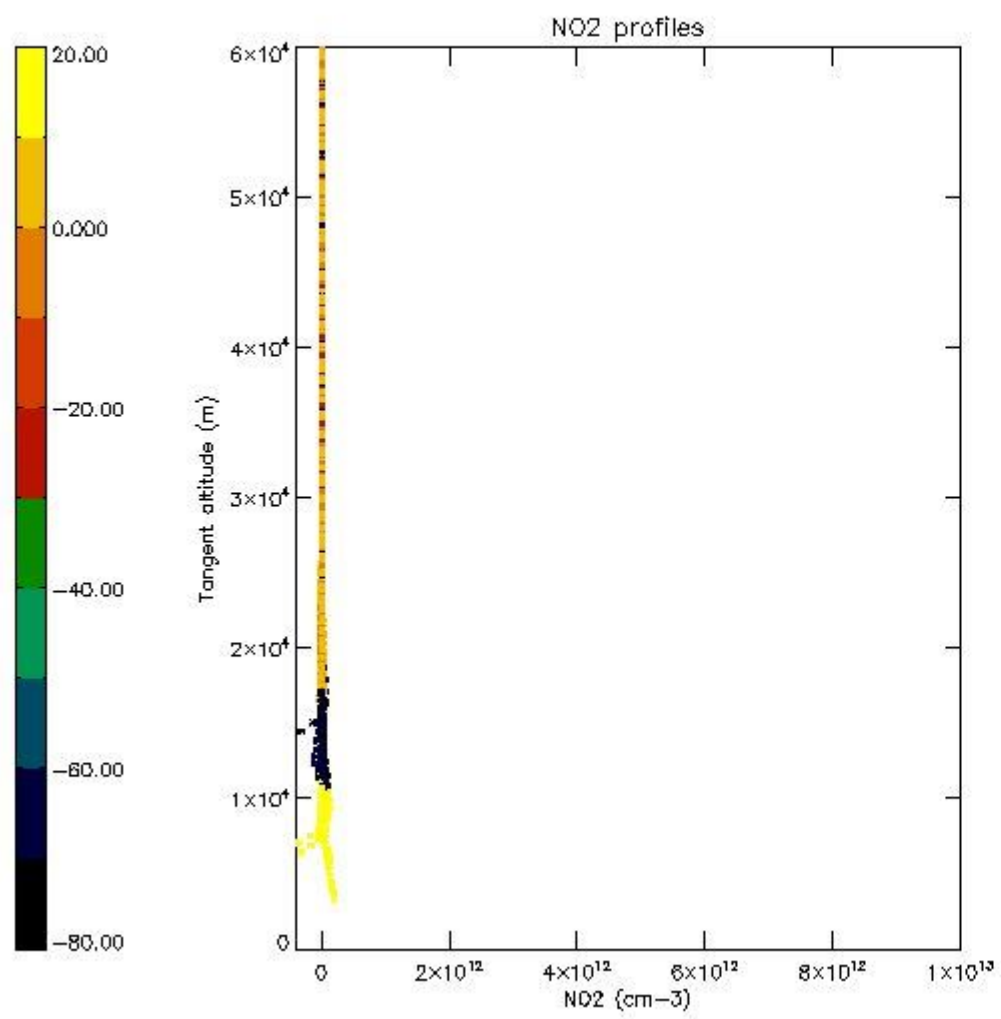
The colorbar represents the latitude.





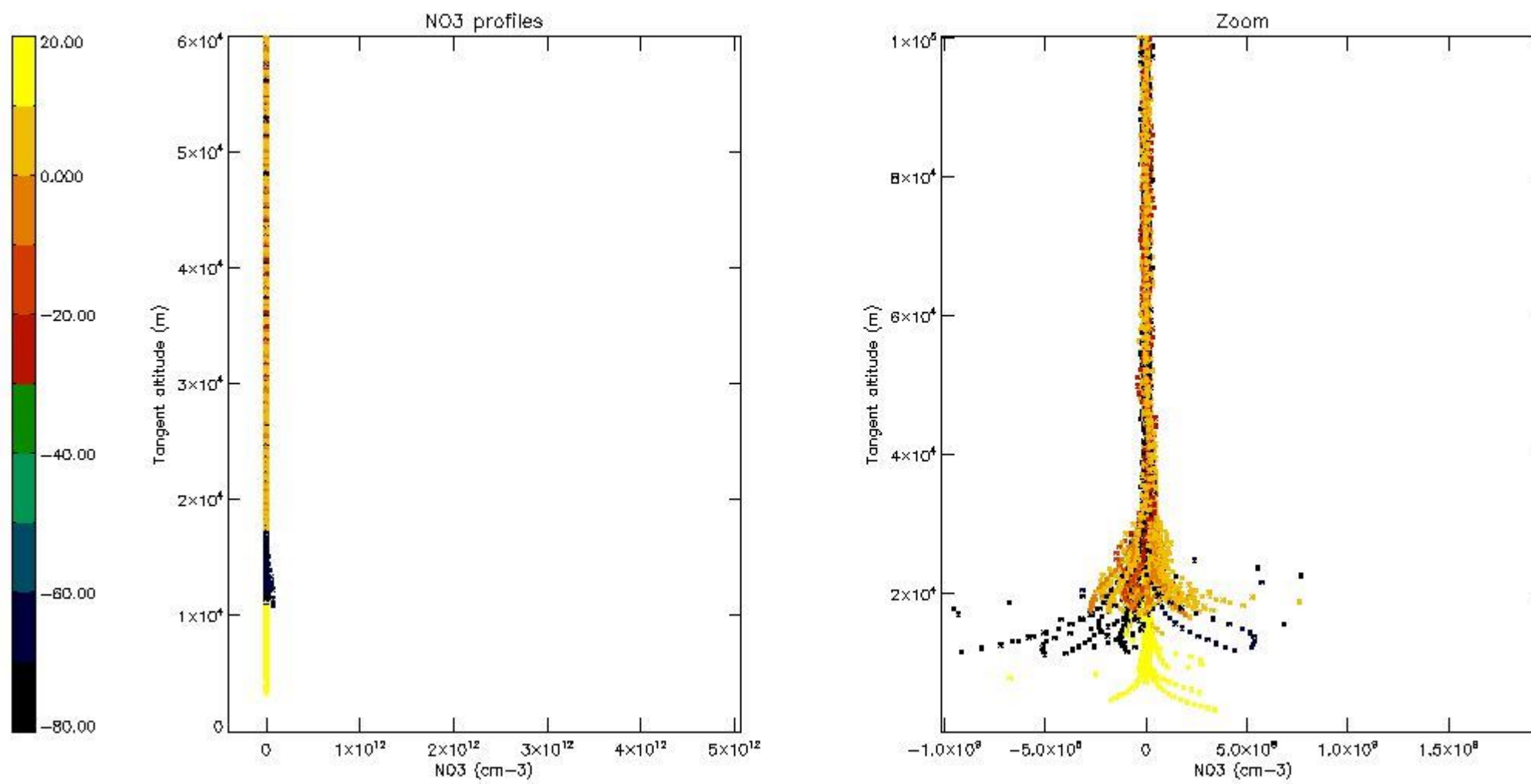
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



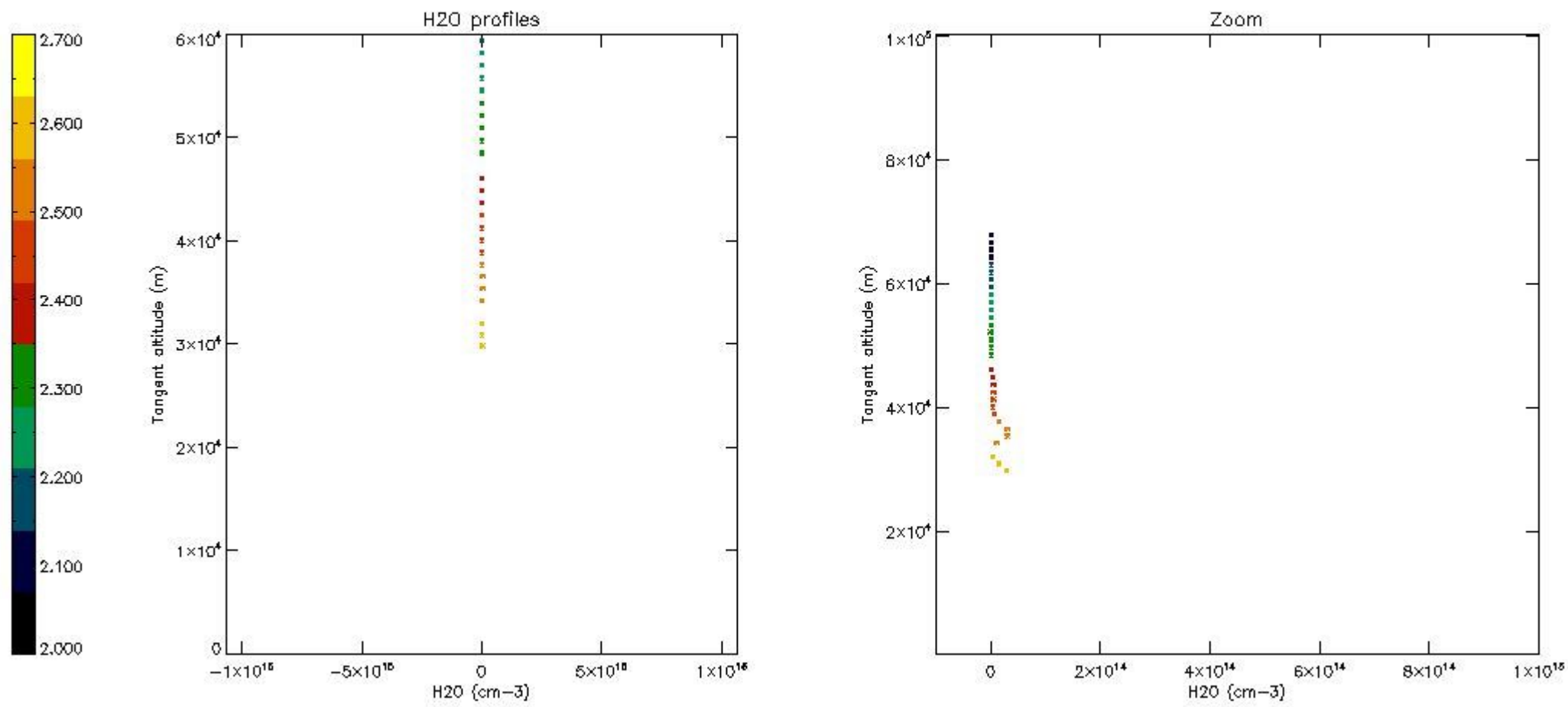
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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	01-APR-2011 01:43:19
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	01-APR-2011 01:43:19
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	01-APR-2011 01:43:19

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

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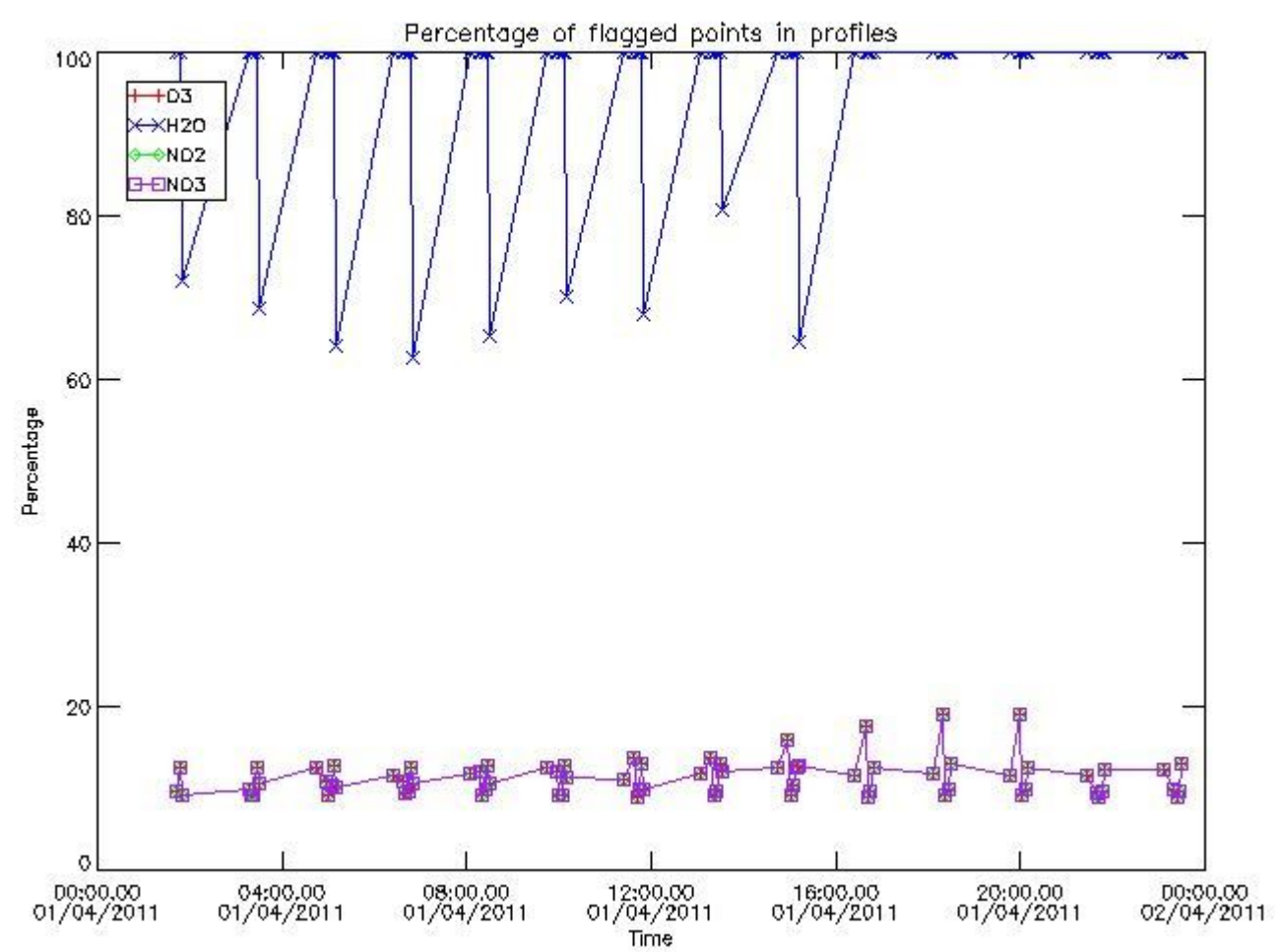


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290	GOM_NL__2PRFIN20110401_230121_000000443101_00087_47515_7533.N1	01-APR-2011 23:01:21	Twilight	44.000	61	8Eps Peg	2.1000	3900.0	88	47515	No
291	GOM_NL__2PRFIN20110401_230557_000000463101_00087_47515_7534.N1	01-APR-2011 23:05:57	Dark	45.500	154	22Bet Aqr	2.8990	5700.0	91	47515	No
292	GOM_NL__2PRFIN20110401_231919_000000523101_00087_47515_7535.N1	01-APR-2011 23:19:19	Dark	51.500	103	38Zet Sgr	2.6000	9700.0	103	47515	No
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298	GOM_NL__2PRFIN20110401_233945_000000543101_00088_47516_7539.N1	01-APR-2011 23:39:45	Straylight	54.000	54	5The Cen	2.0550	4500.0	108	47516	No
299	GOM_NL__2PRFIN20110401_234538_000000473101_00088_47516_7540.N1	01-APR-2011 23:45:38	Twilight	47.000	106	9Bet Crv	2.6480	5600.0	94	47516	No
300	GOM_NL__2PRFIN20110401_234735_000000453101_00088_47516_7541.N1	01-APR-2011 23:47:35	Twilight	45.000	100	4Gam Crv	2.5800	13100.	90	47516	No
301	GOM_NL__2PRFIN20110401_234920_000000633101_00088_47516_7542.N1	01-APR-2011 23:49:20	Bright	62.500	15	67Alp Vir	0.97600	28000.	125	47516	No
302	GOM_NL__2PRFIN20110401_235233_000000443101_00088_47516_7543.N1	01-APR-2011 23:52:33	Bright	44.000	121	29Gam Vir	2.7400	7200.0	88	47516	No
303	GOM_NL__2PRFIN20110401_235710_000000393101_00088_47516_7544.N1	01-APR-2011 23:57:10	Bright	38.500	62	94Bet Leo	2.1360	9700.0	77	47516	No

### 3. Quality information per product

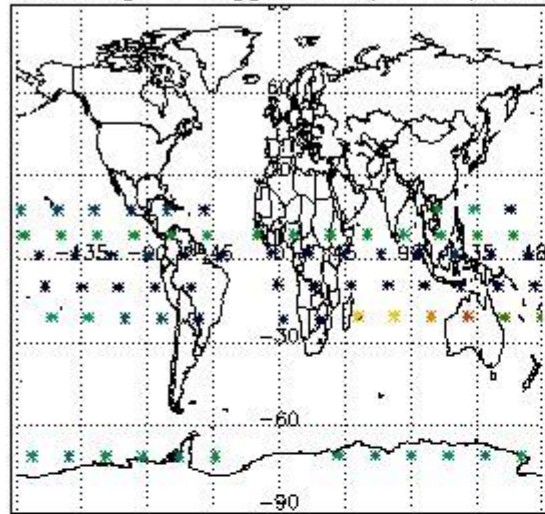
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

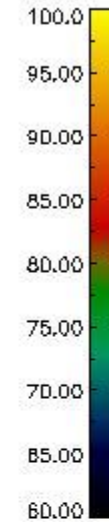
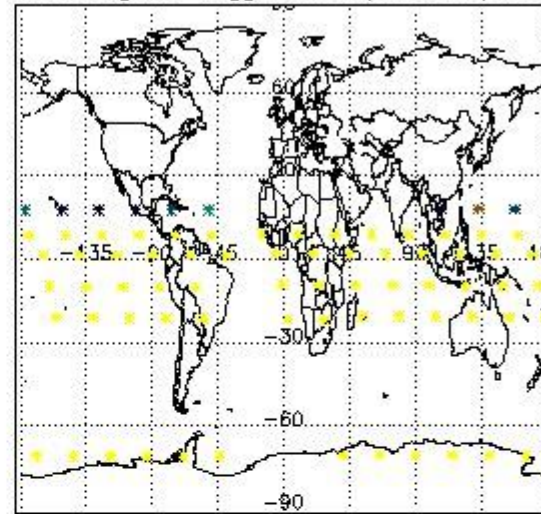


3.2 Plot quality information per product (world map)

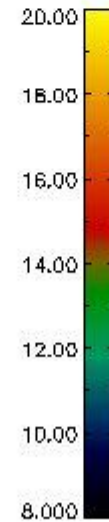
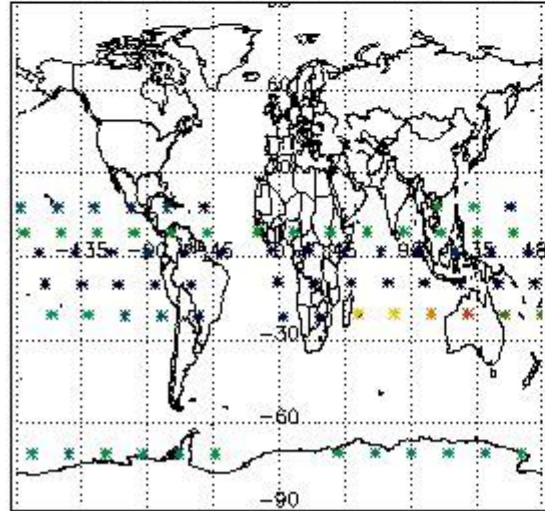
Percentage of flagged data per O3 profile



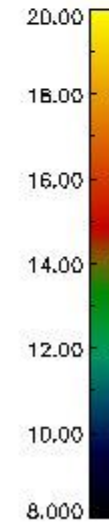
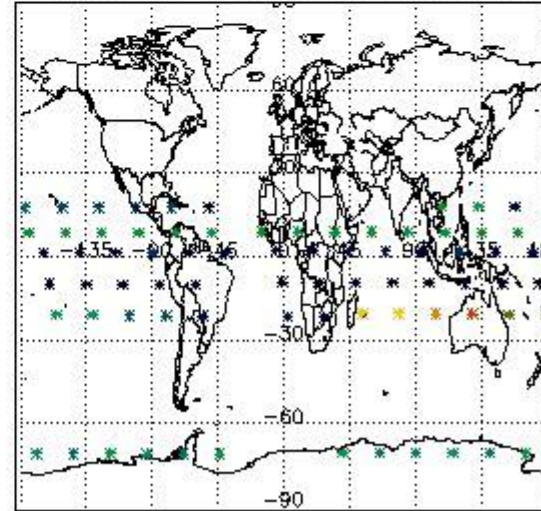
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

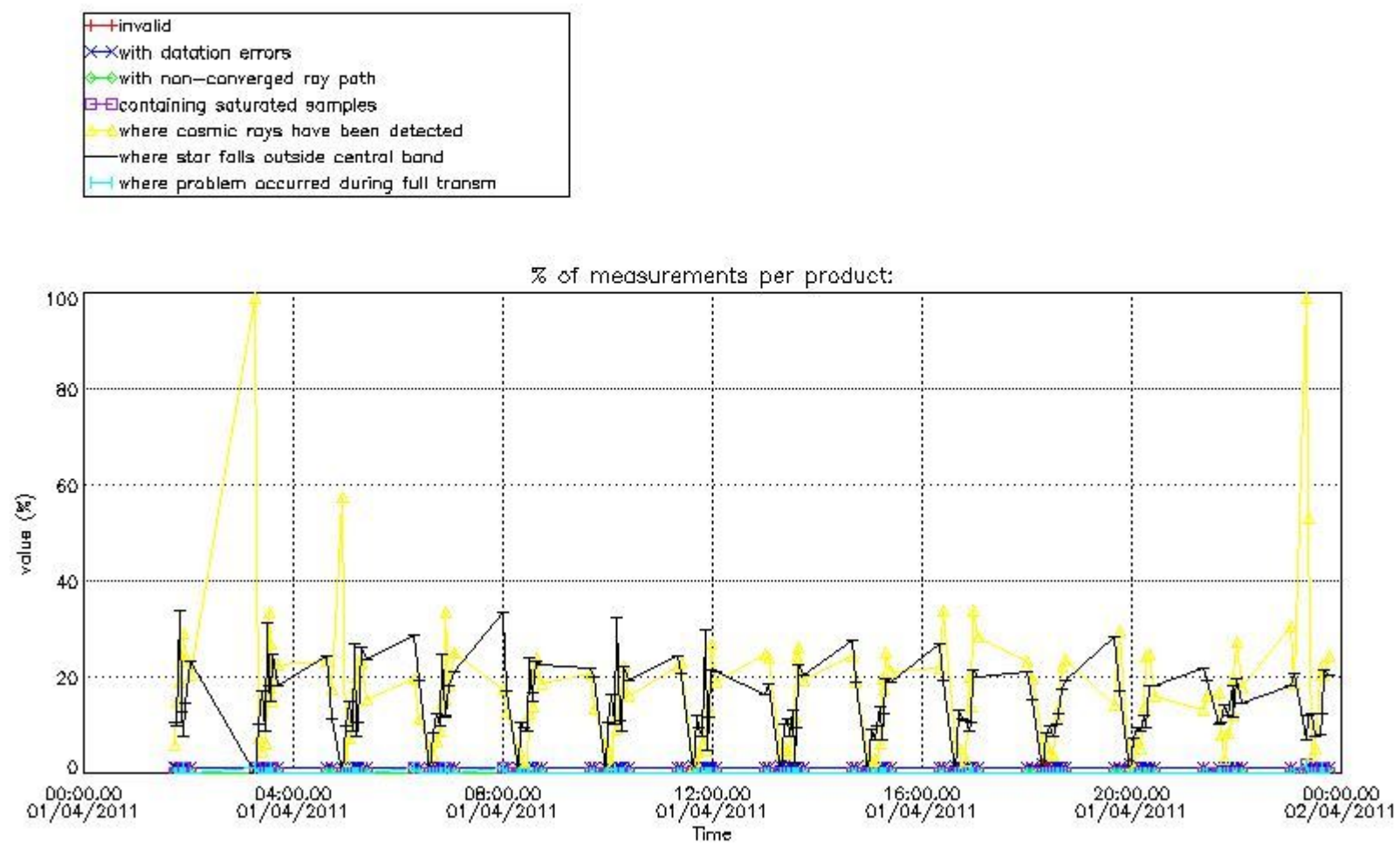


#### 4. Level 1 quality information per product

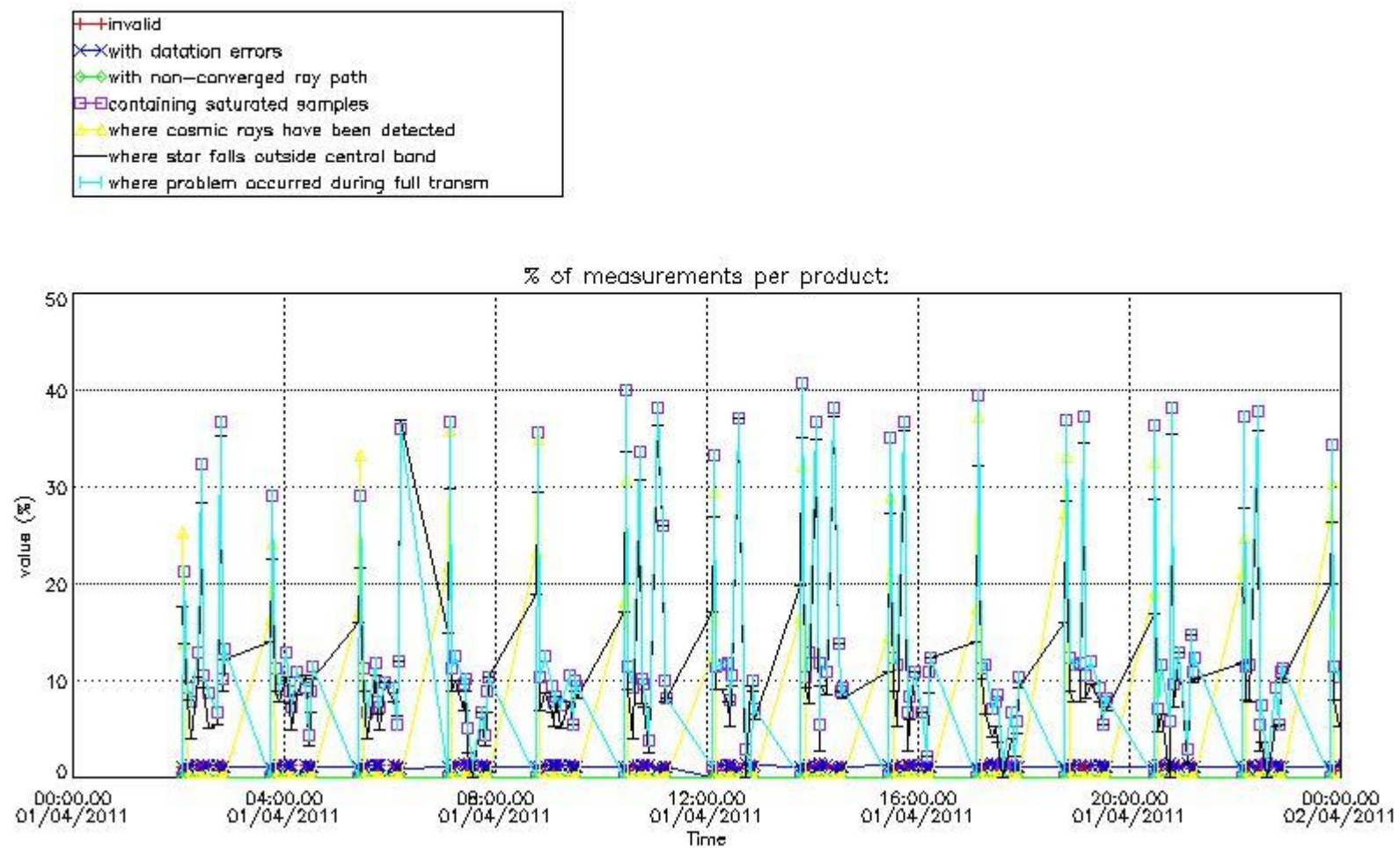
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

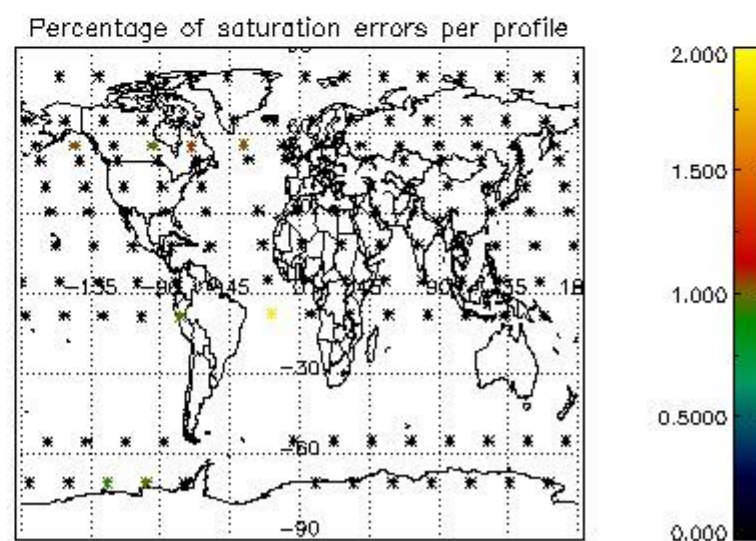
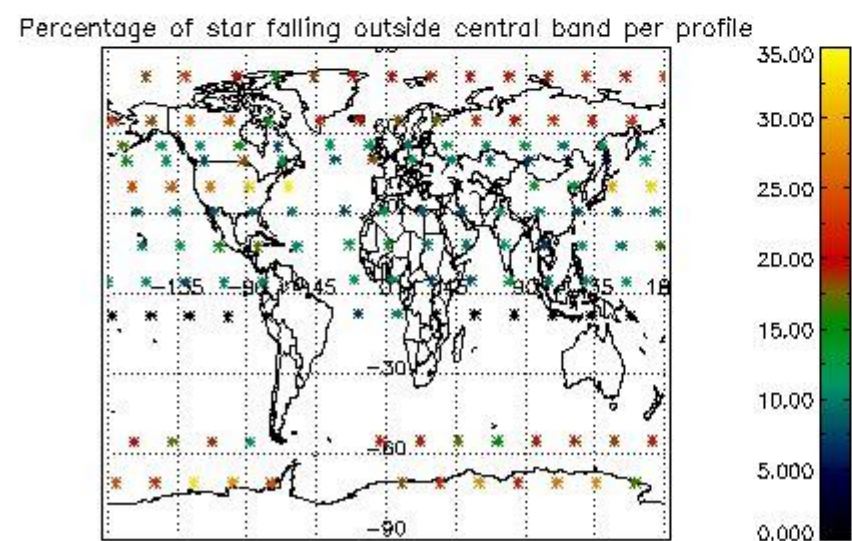
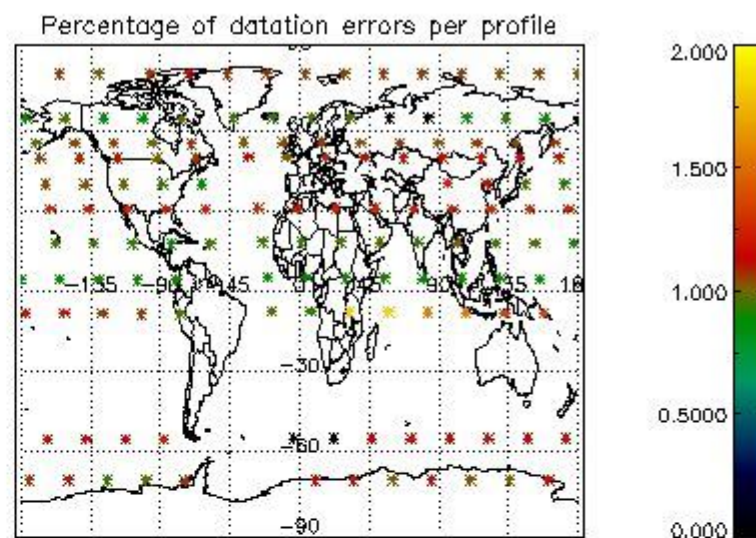
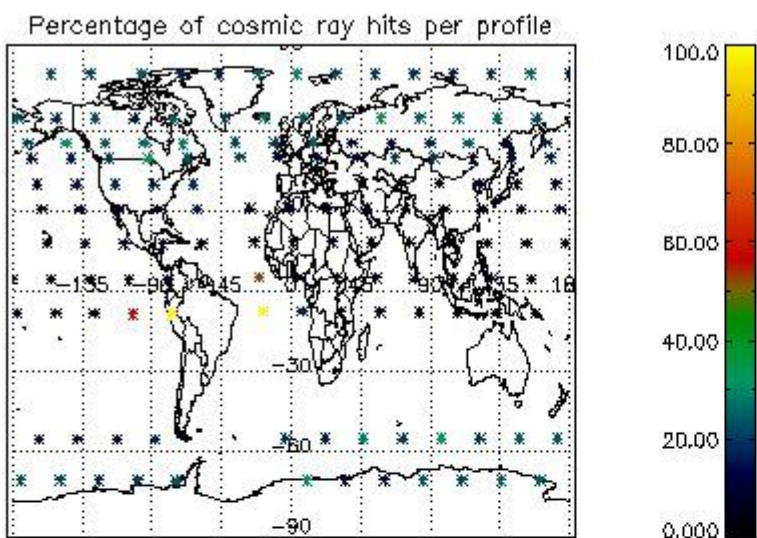


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



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

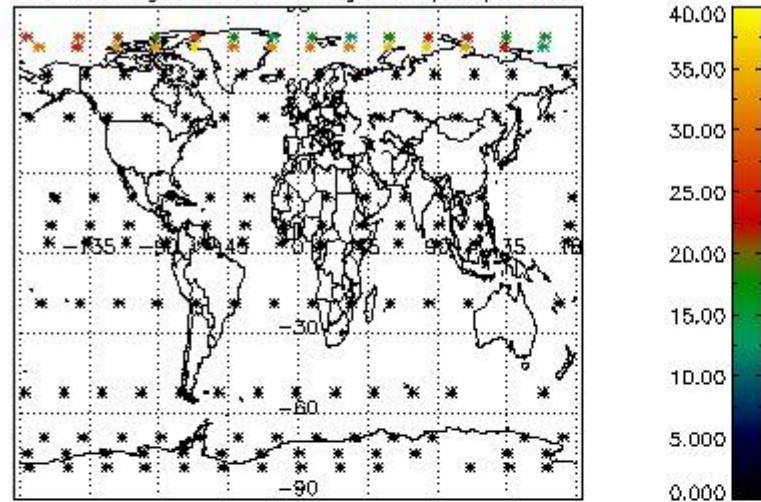
*4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes*



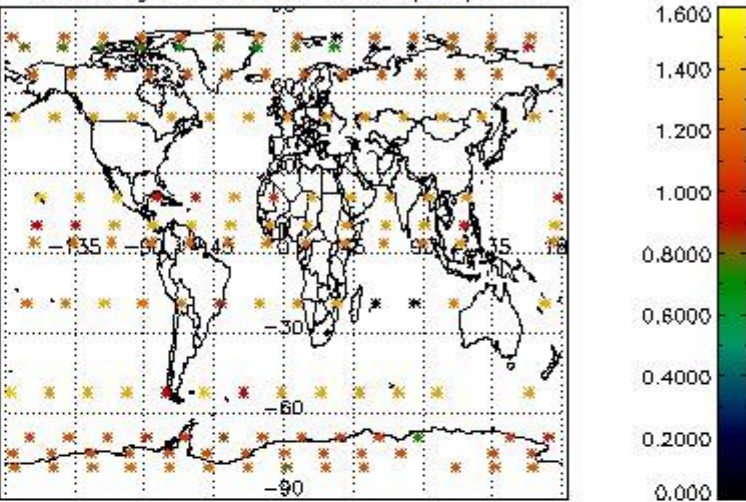
4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



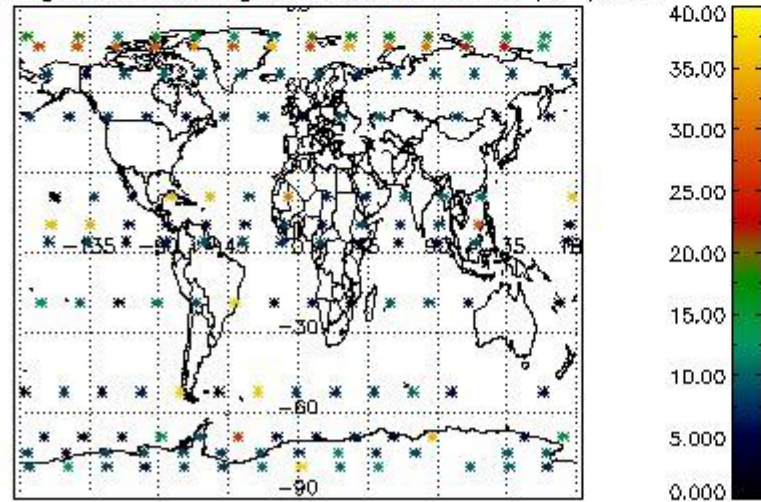
Percentage of cosmic ray hits per profile



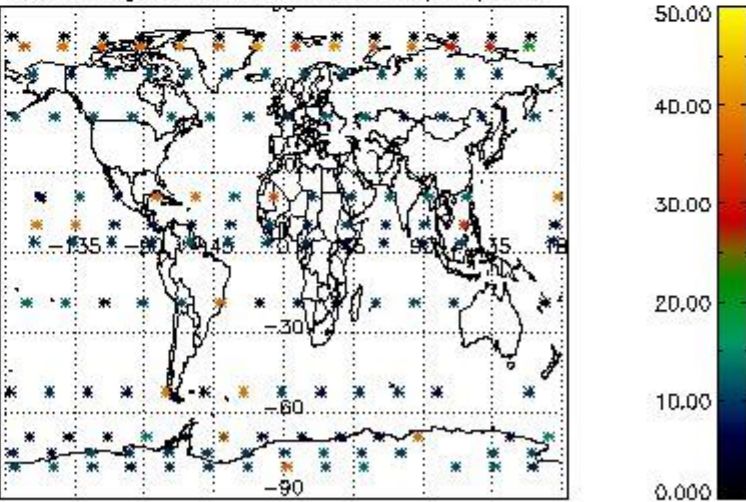
Percentage of datation errors per profile



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

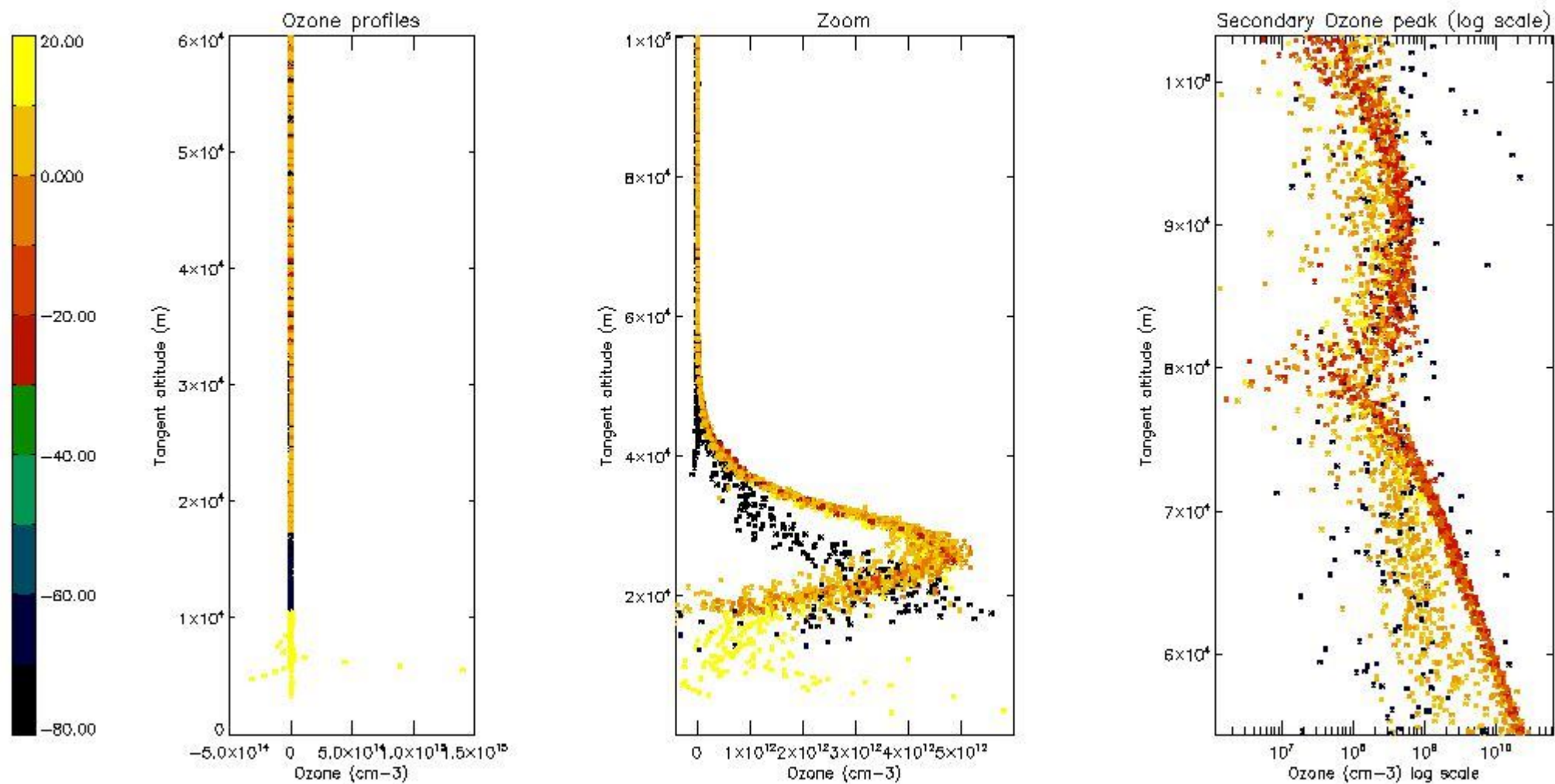
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	11

STD < 10	8
STD < 5	5

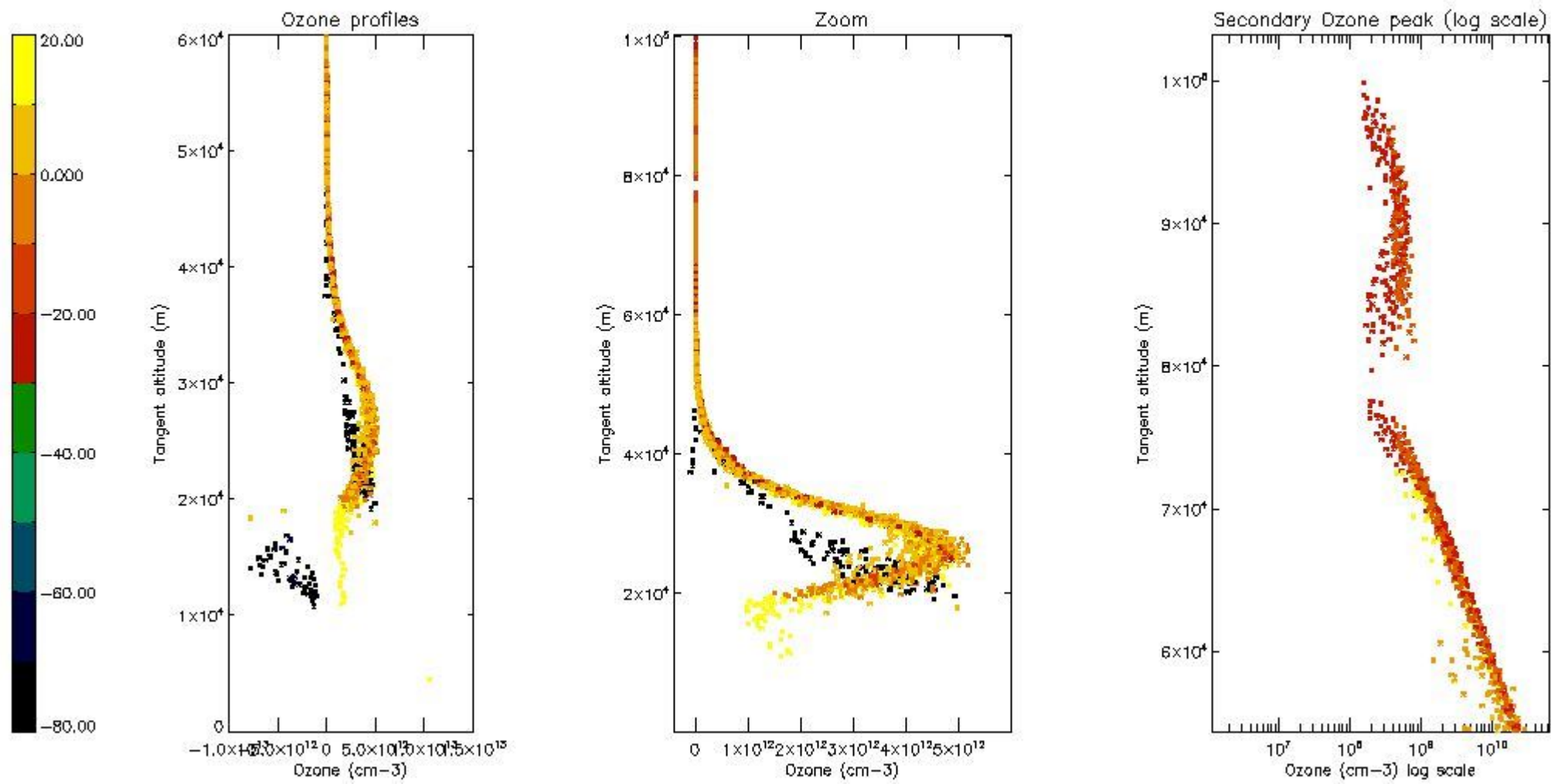
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



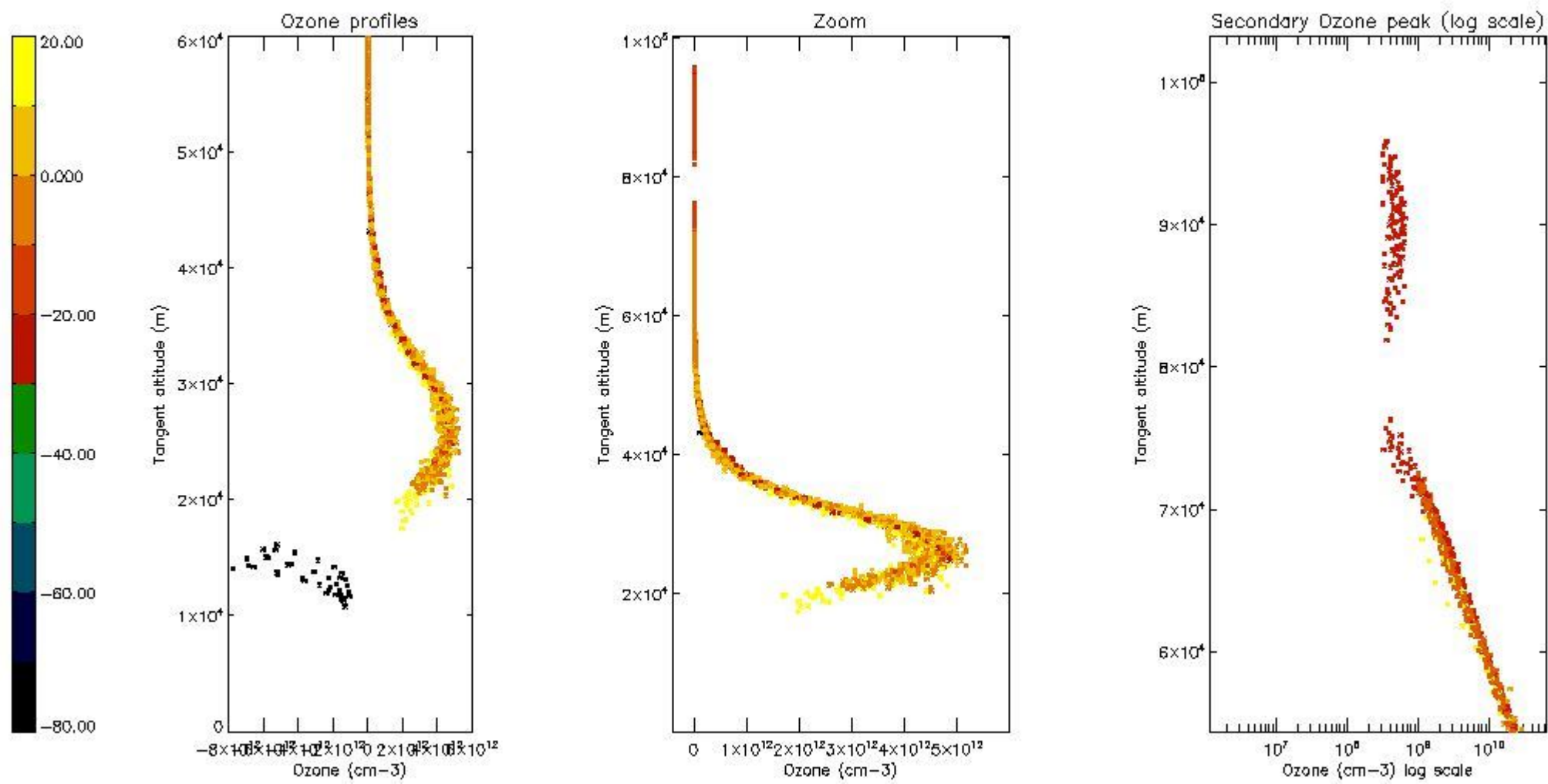
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



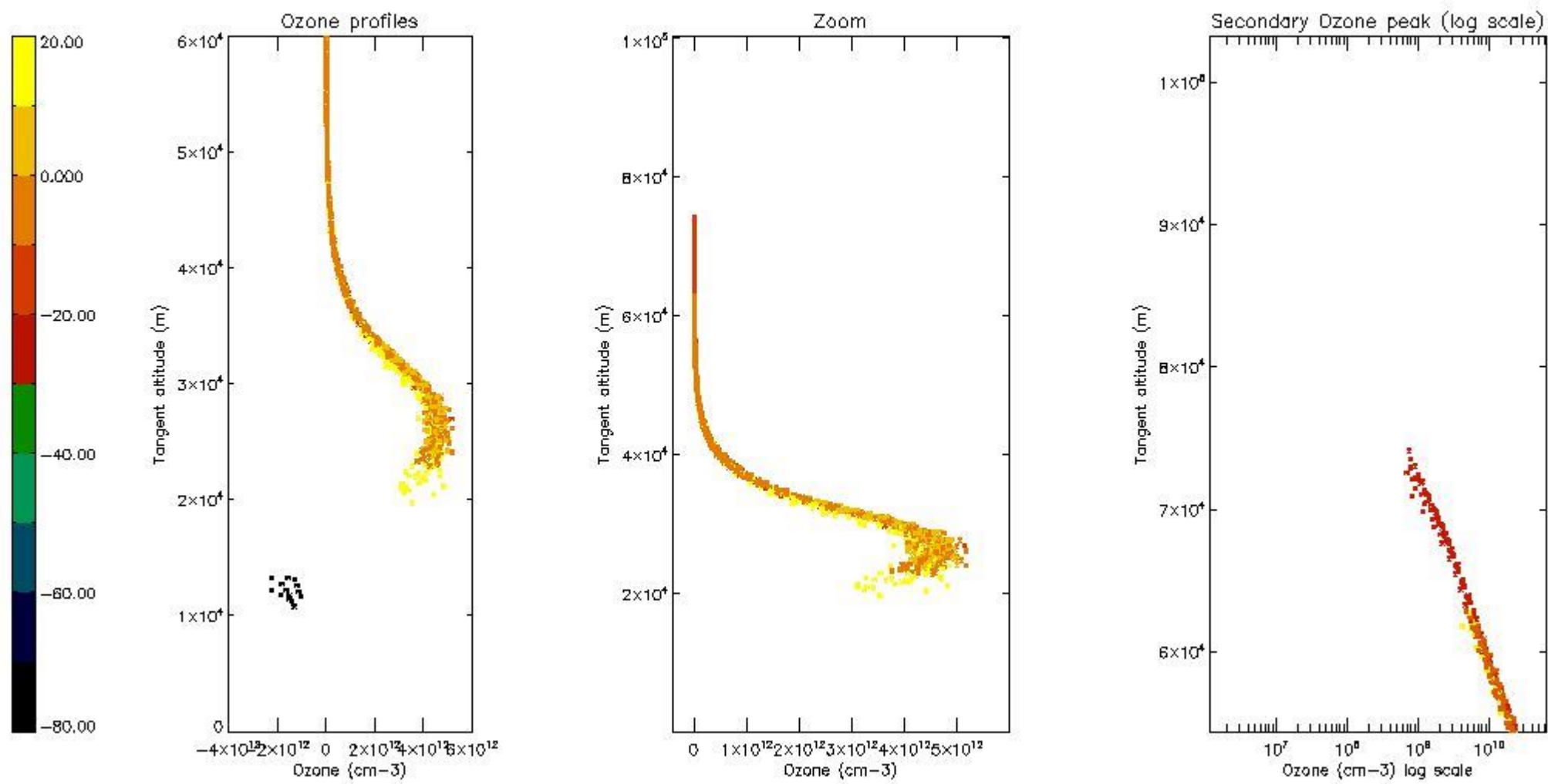
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



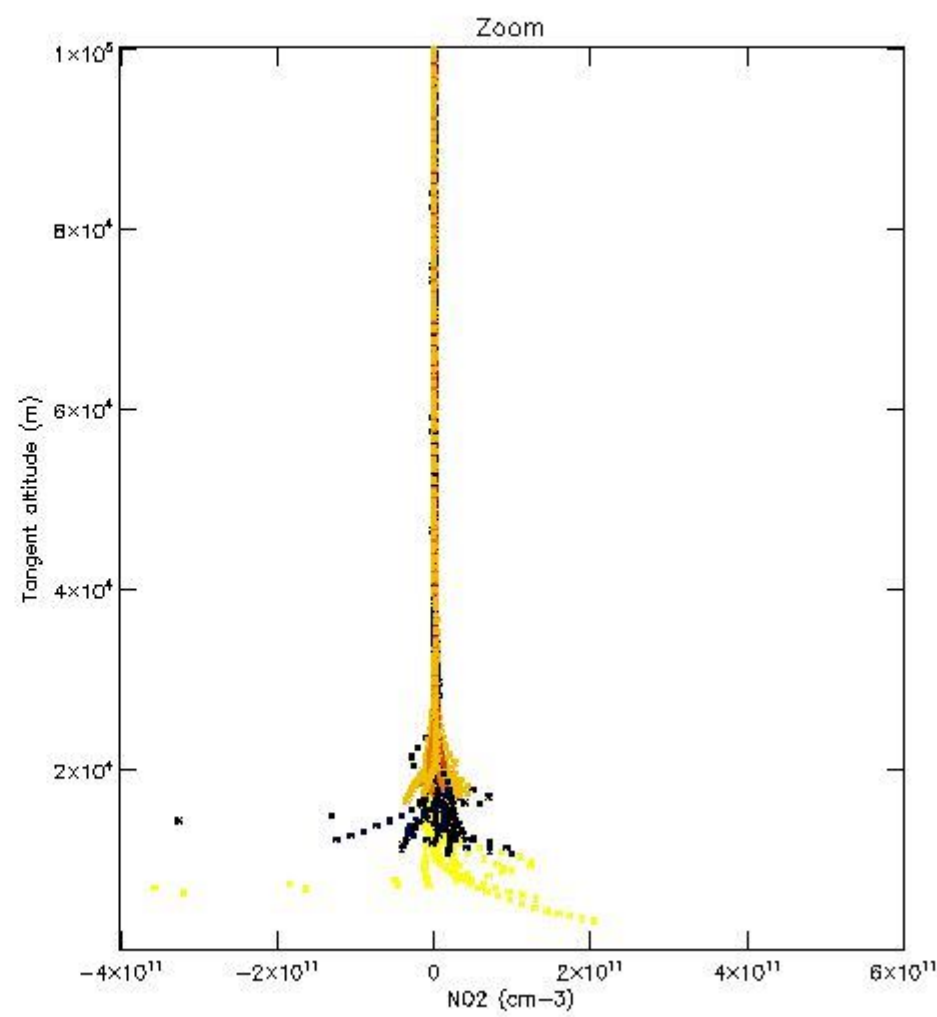
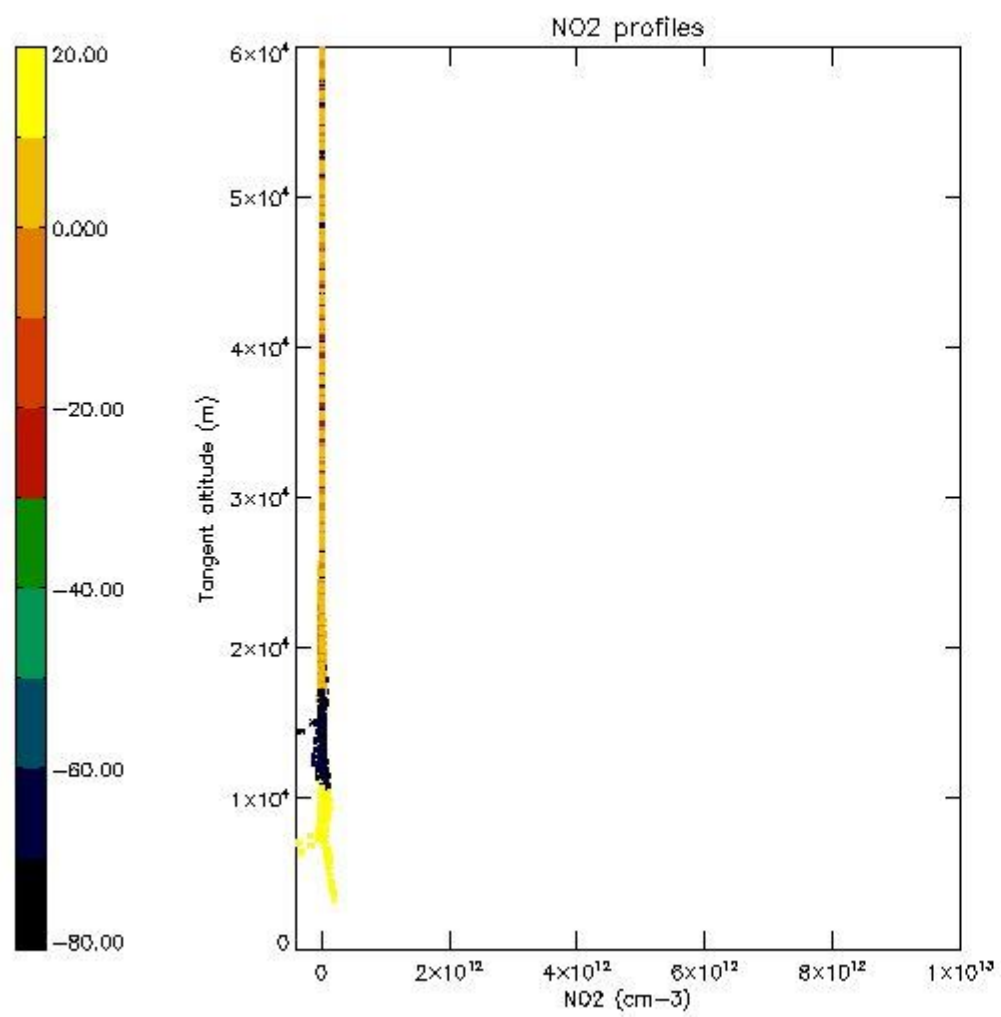
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



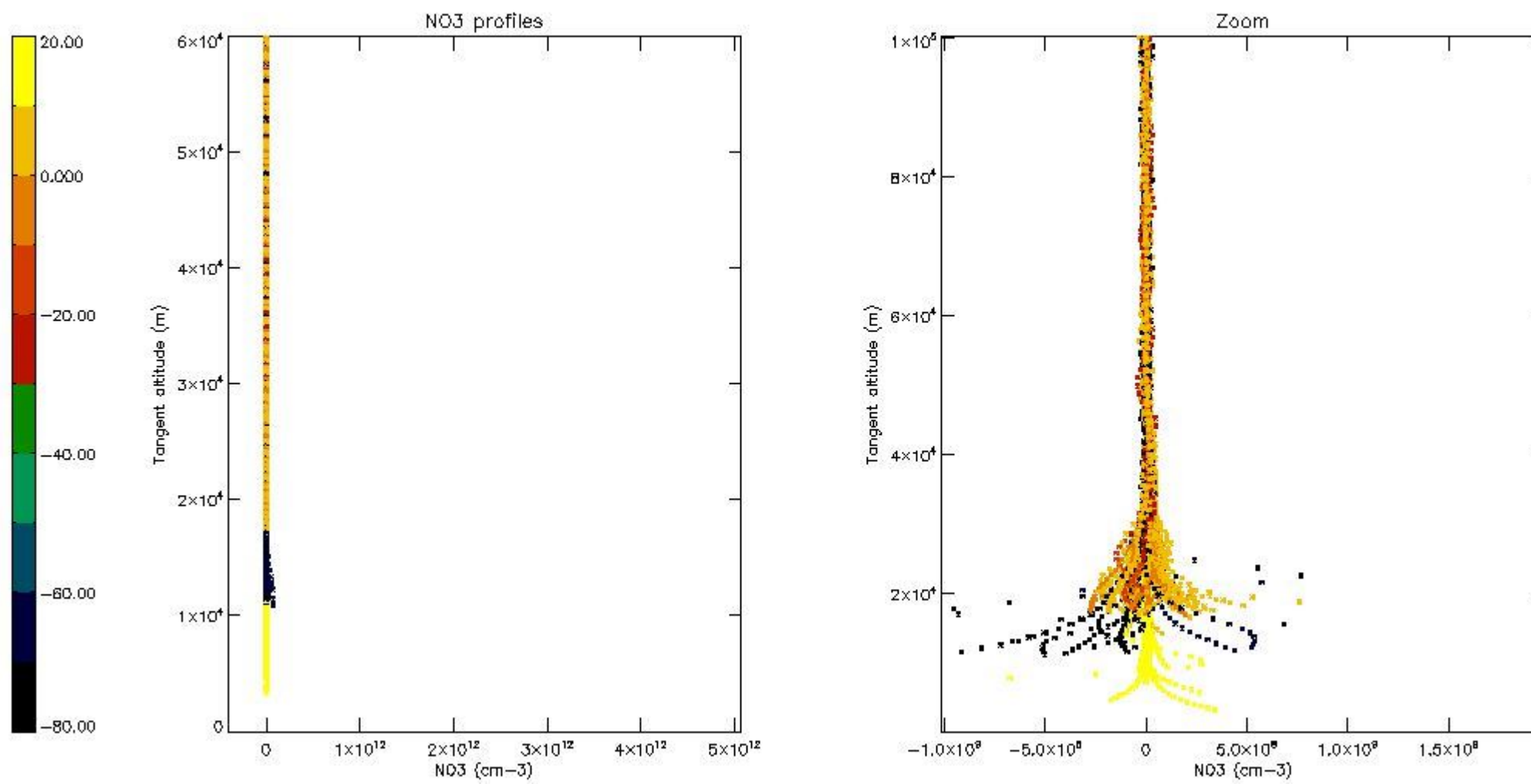
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



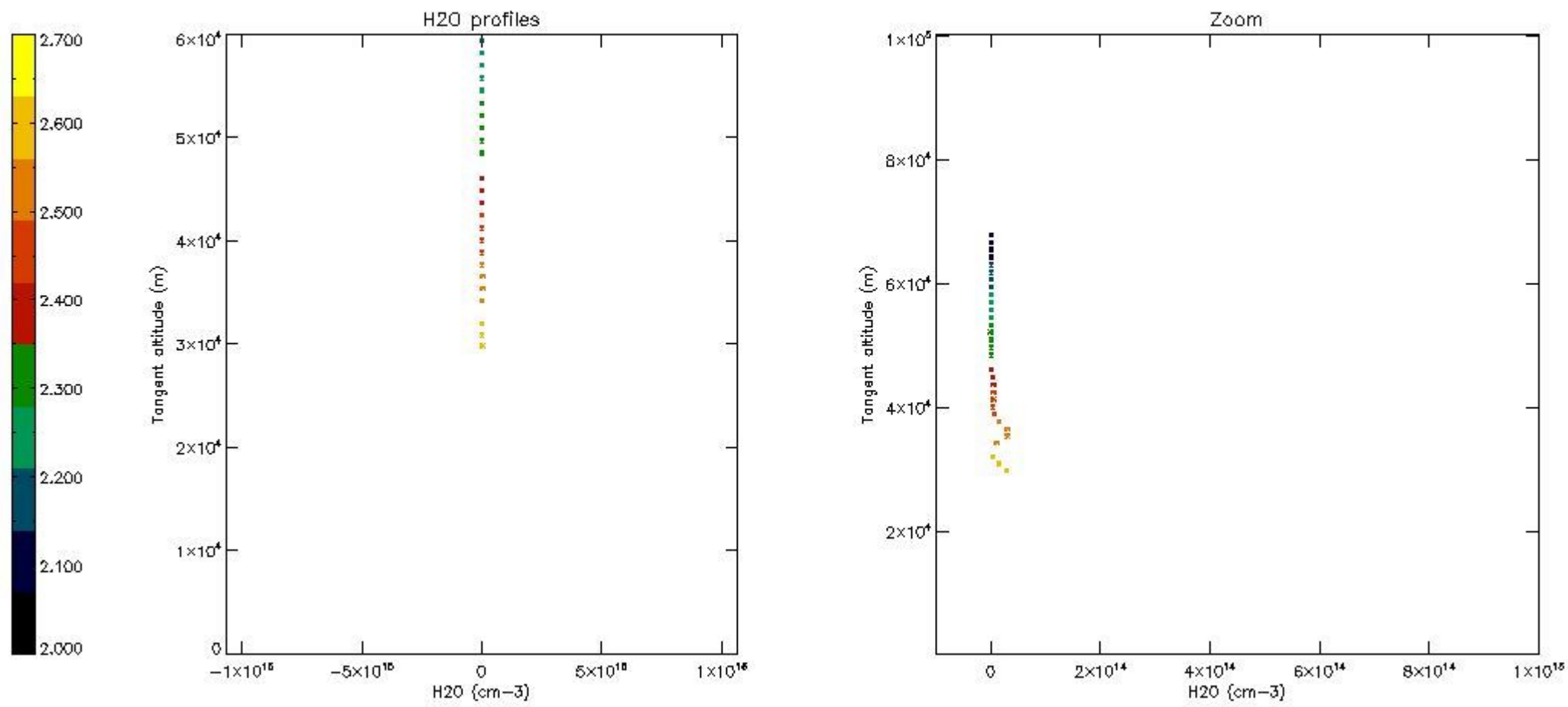
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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.

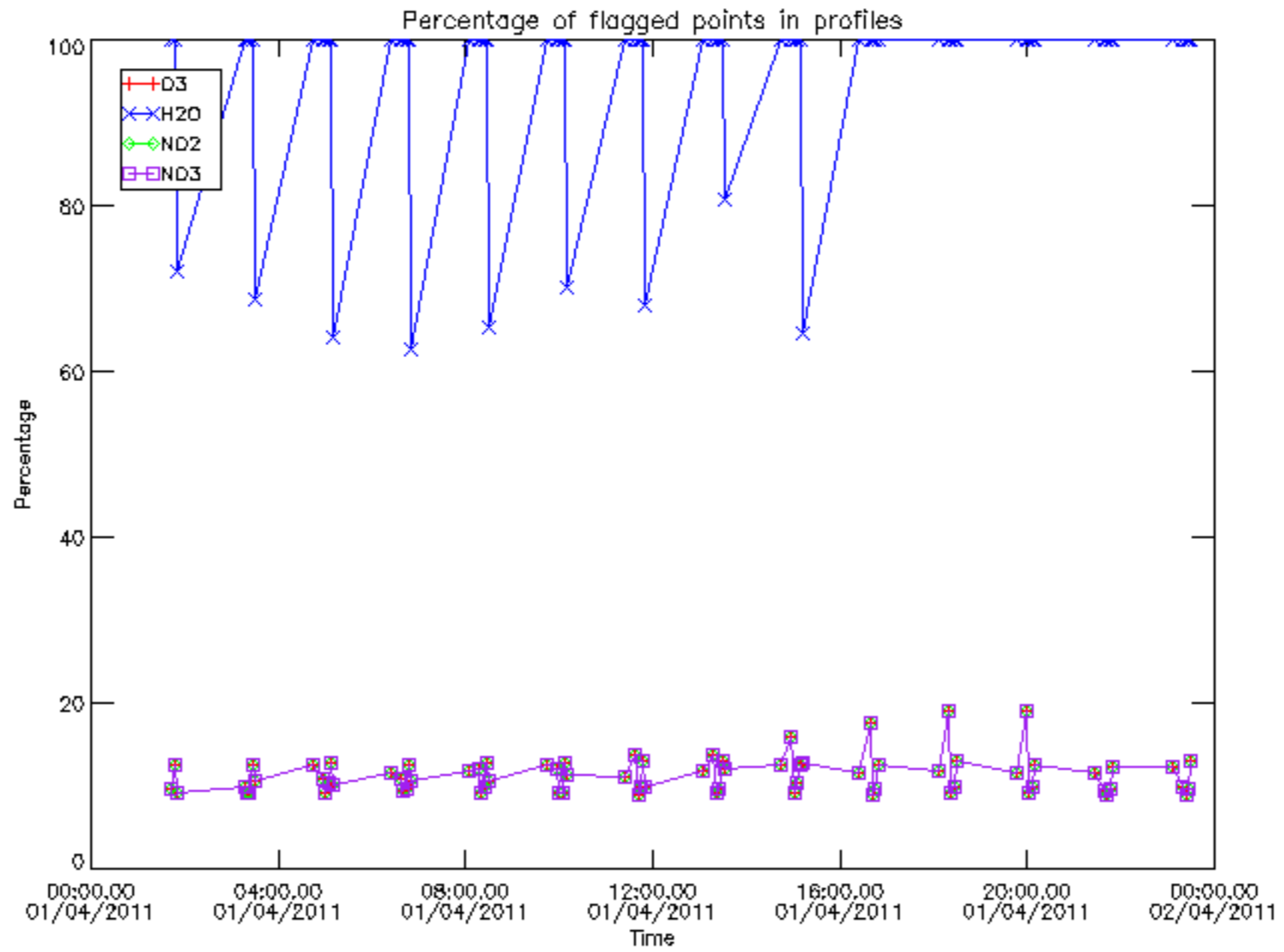


## 6. Auxiliary Data Files used for the production reported in section 2

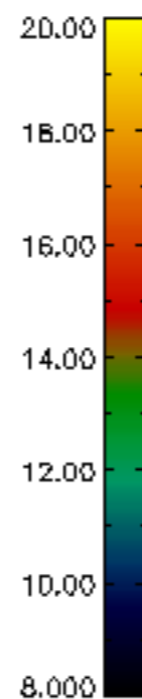
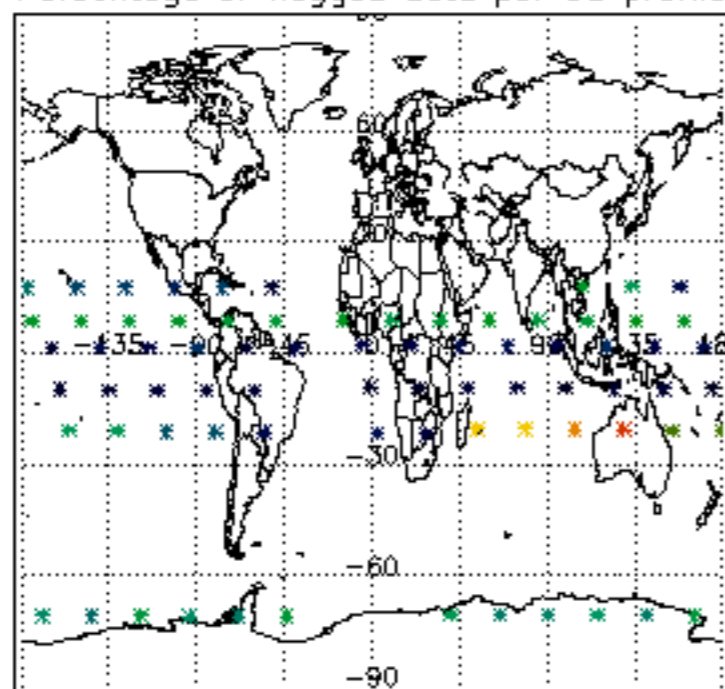
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	01-APR-2011 01:43:19
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	01-APR-2011 01:43:19
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	01-APR-2011 01:43:19

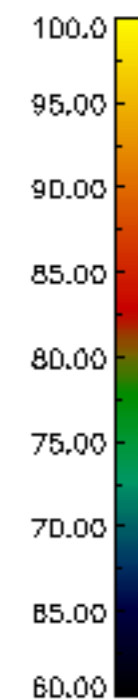
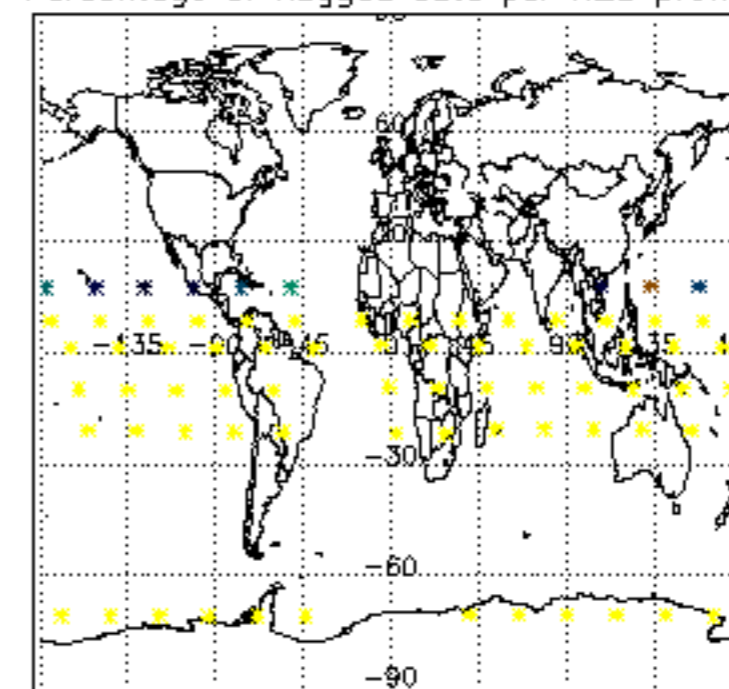




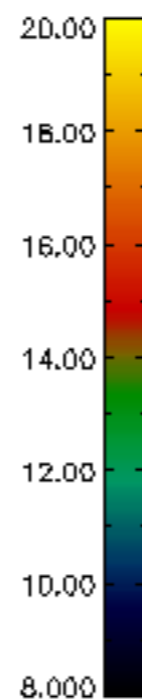
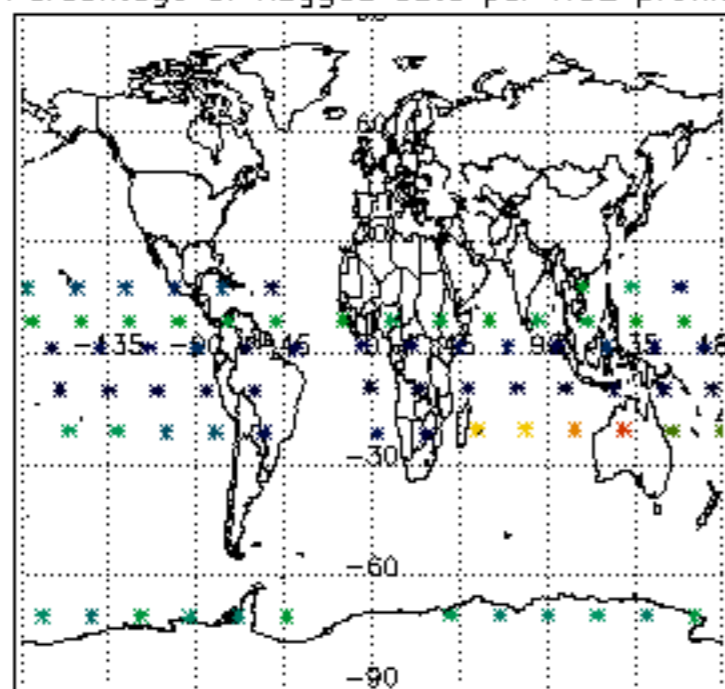
Percentage of flagged data per D3 profile



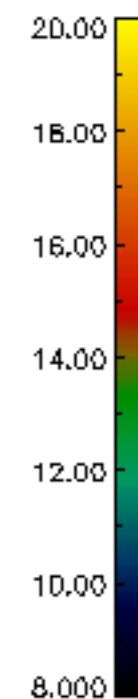
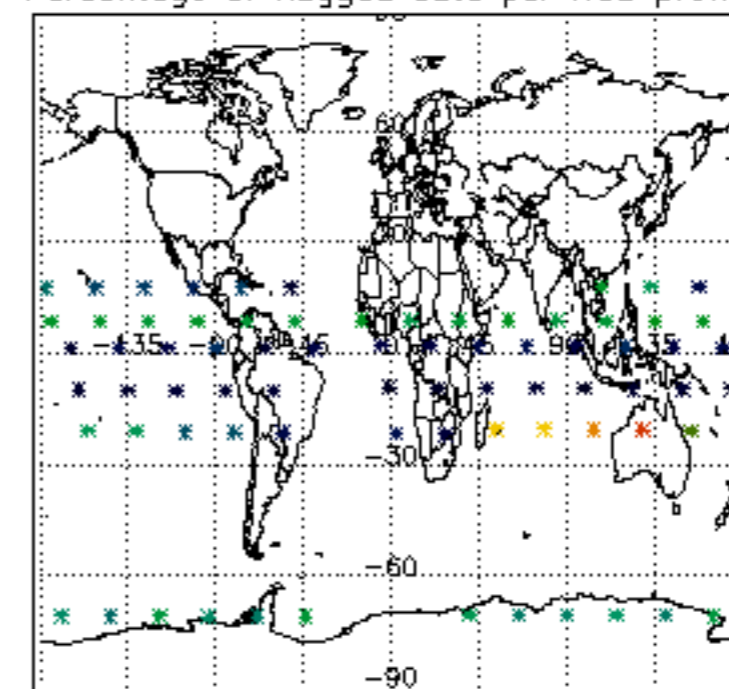
Percentage of flagged data per H2O profile

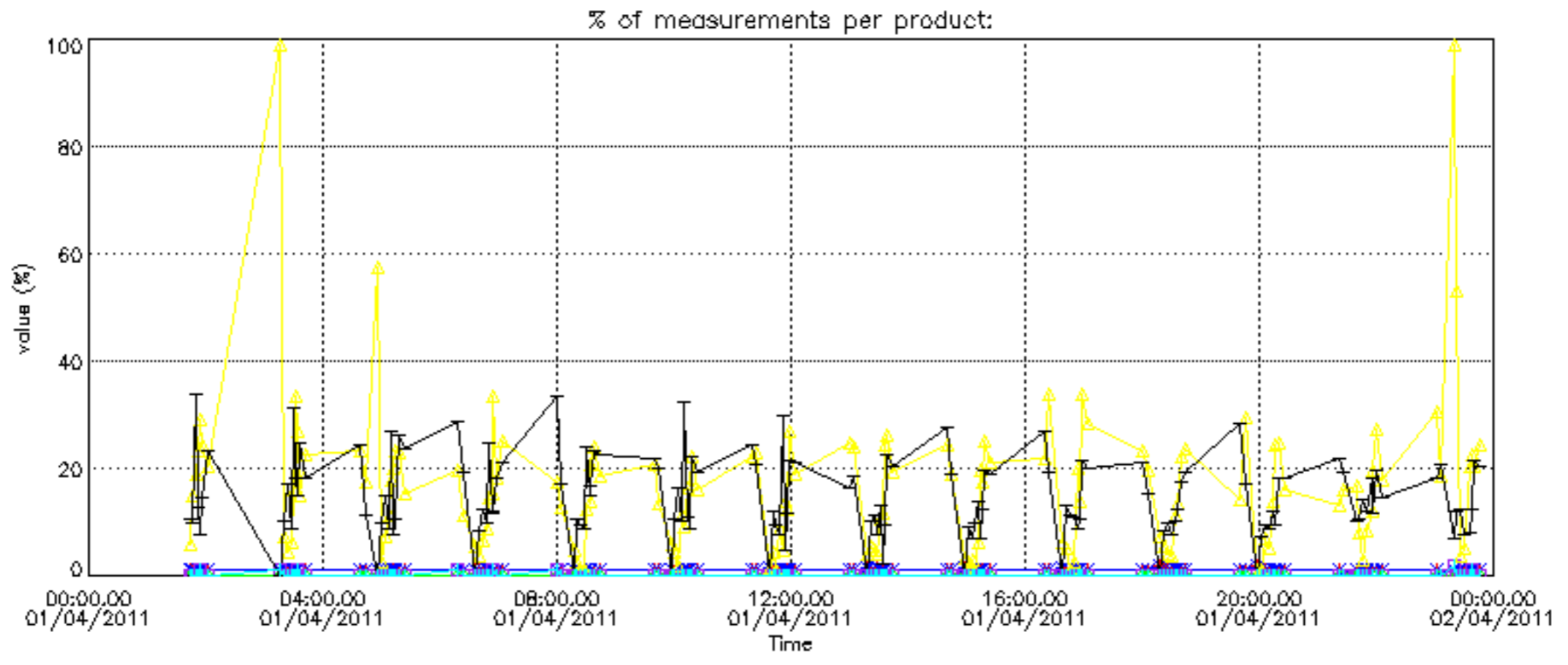


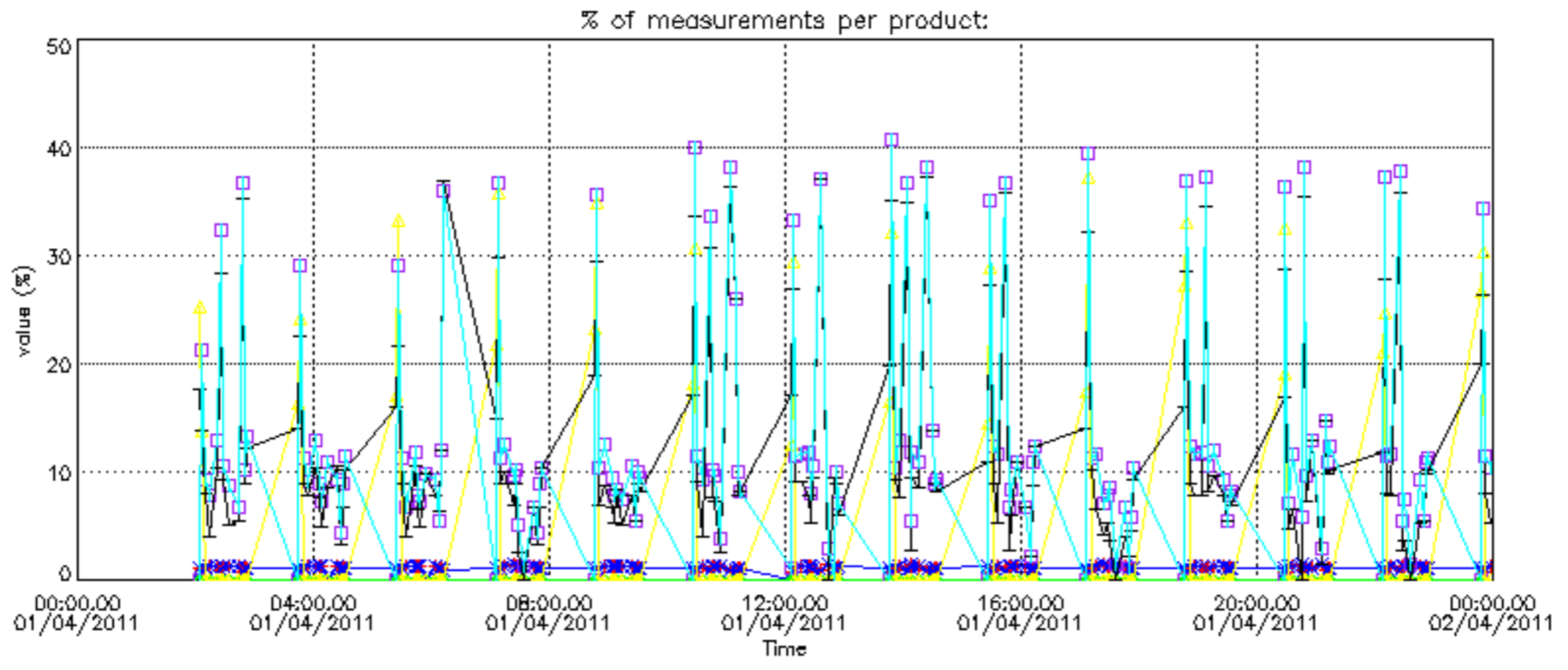
Percentage of flagged data per NO2 profile



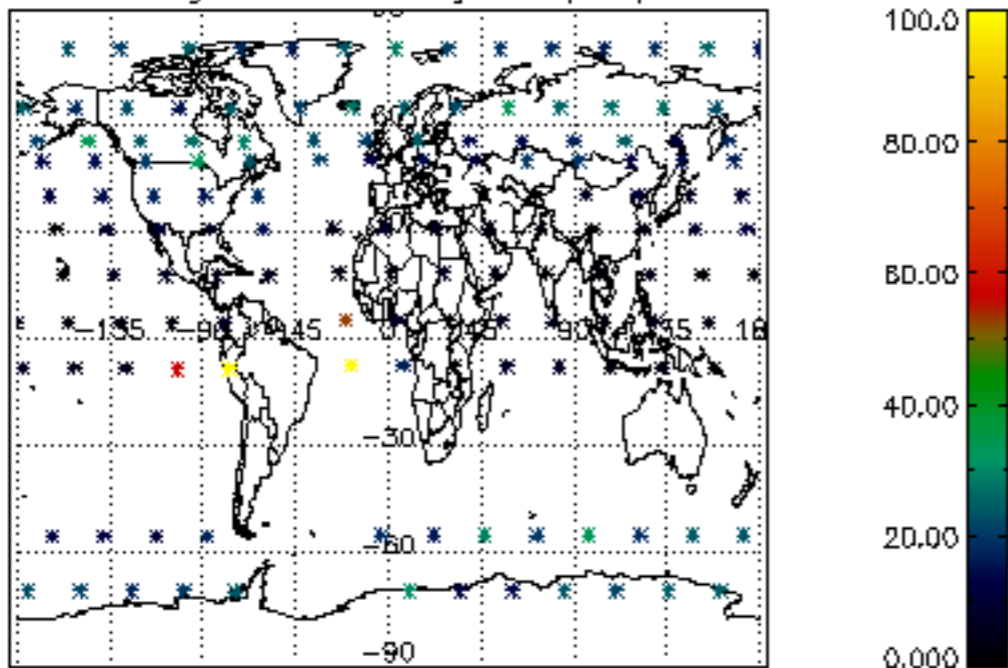
Percentage of flagged data per NO3 profile



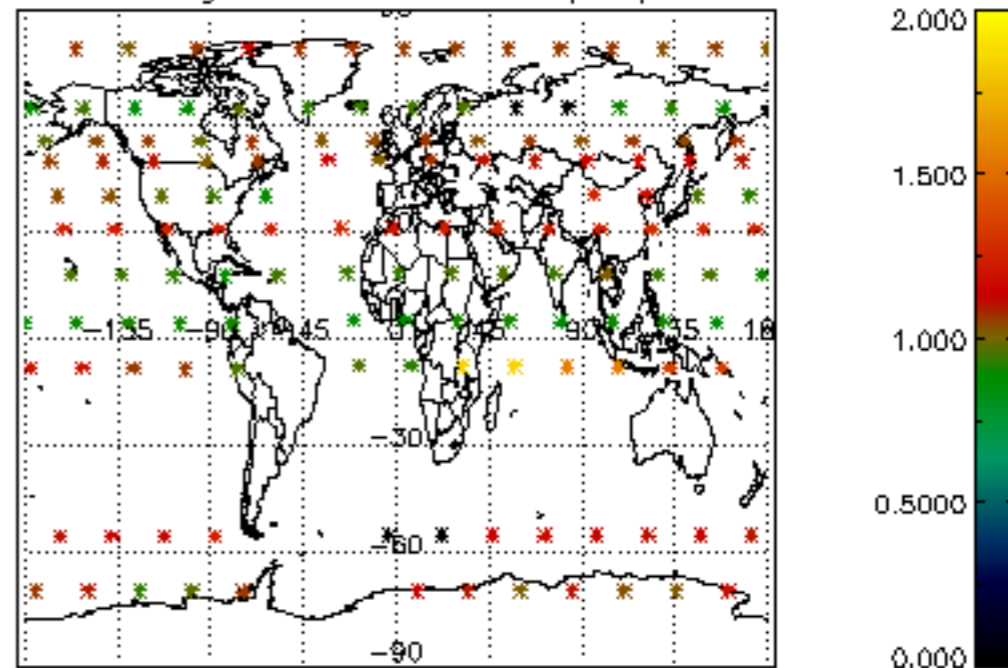




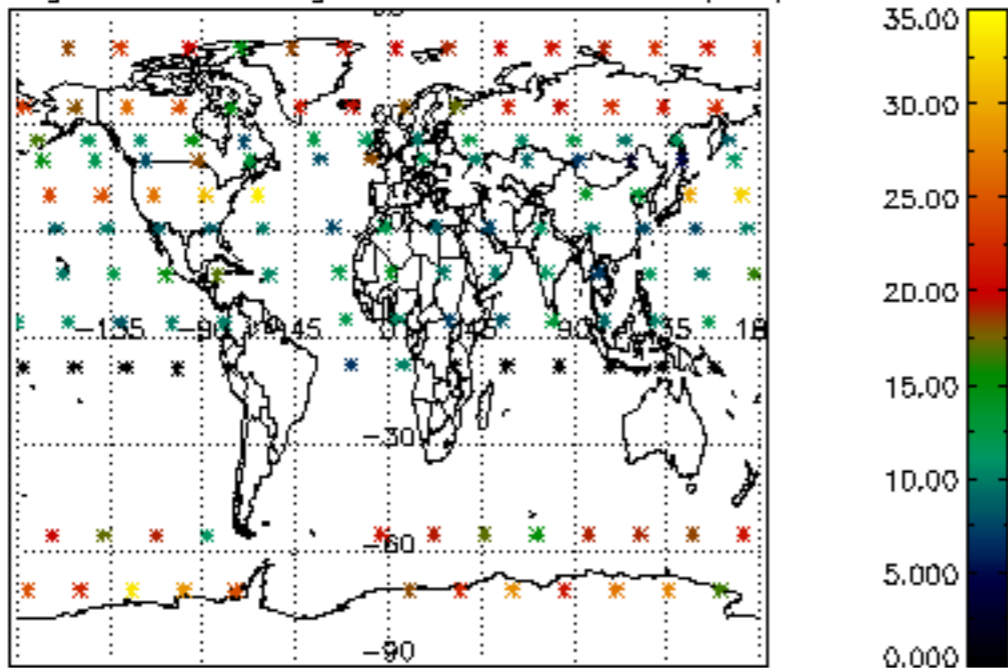
Percentage of cosmic ray hits per profile



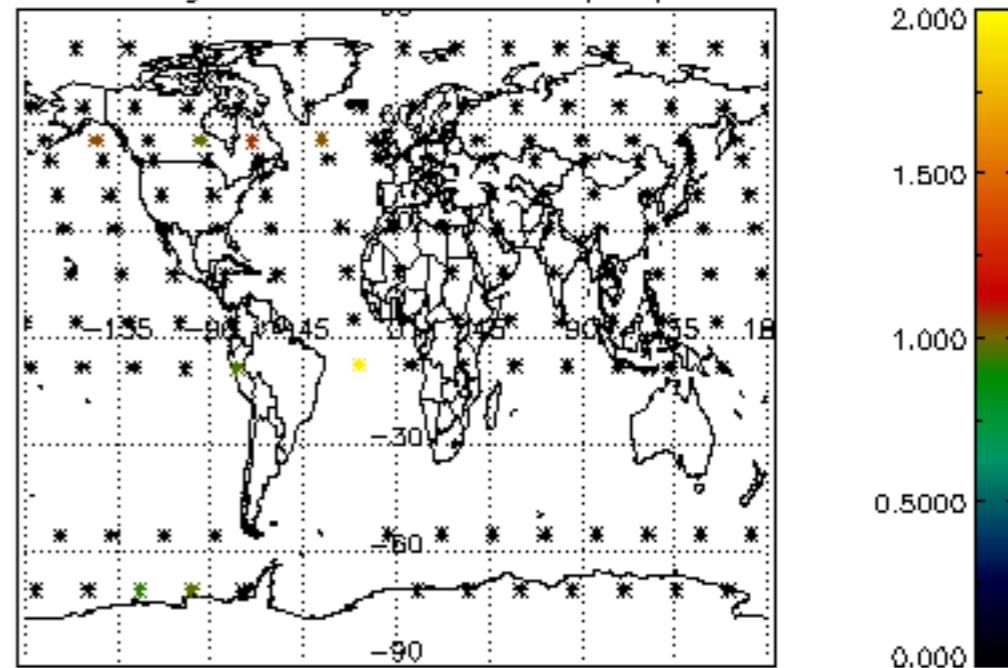
Percentage of datation errors per profile



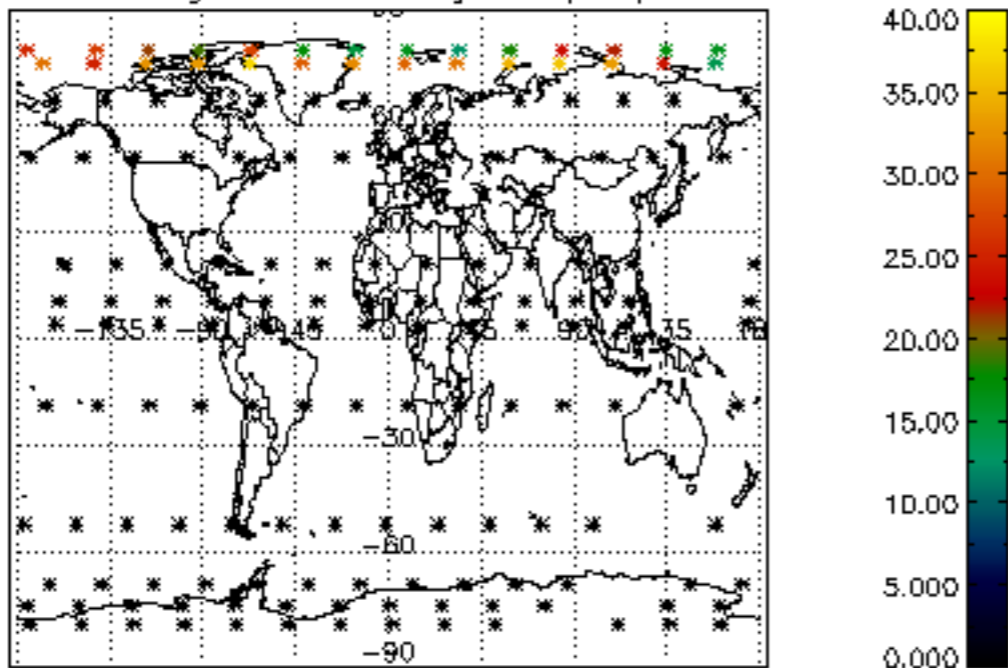
Percentage of star falling outside central band per profile



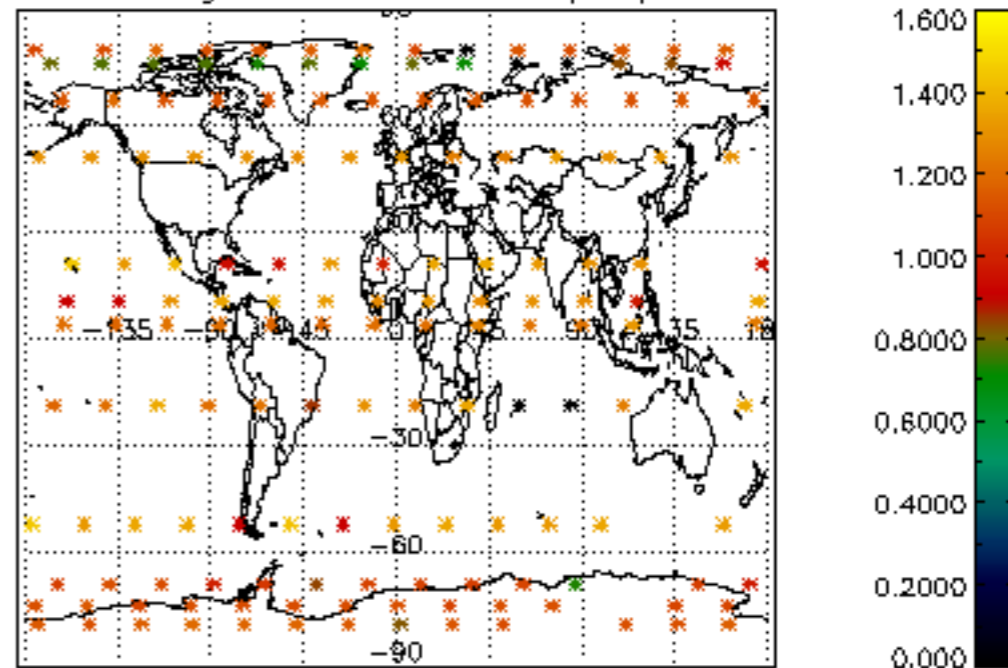
Percentage of saturation errors per profile



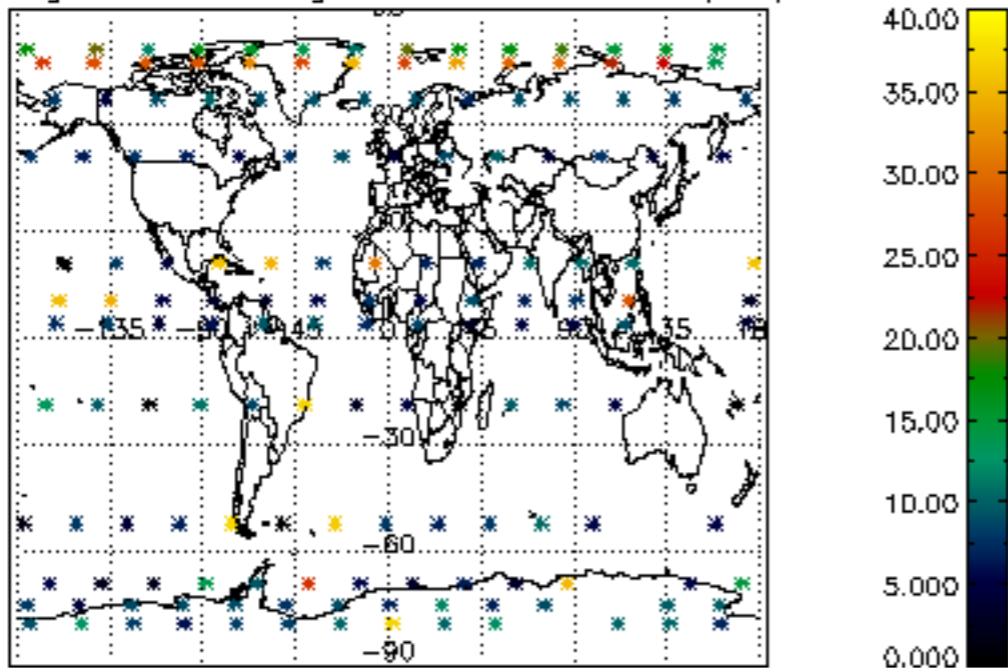
Percentage of cosmic ray hits per profile



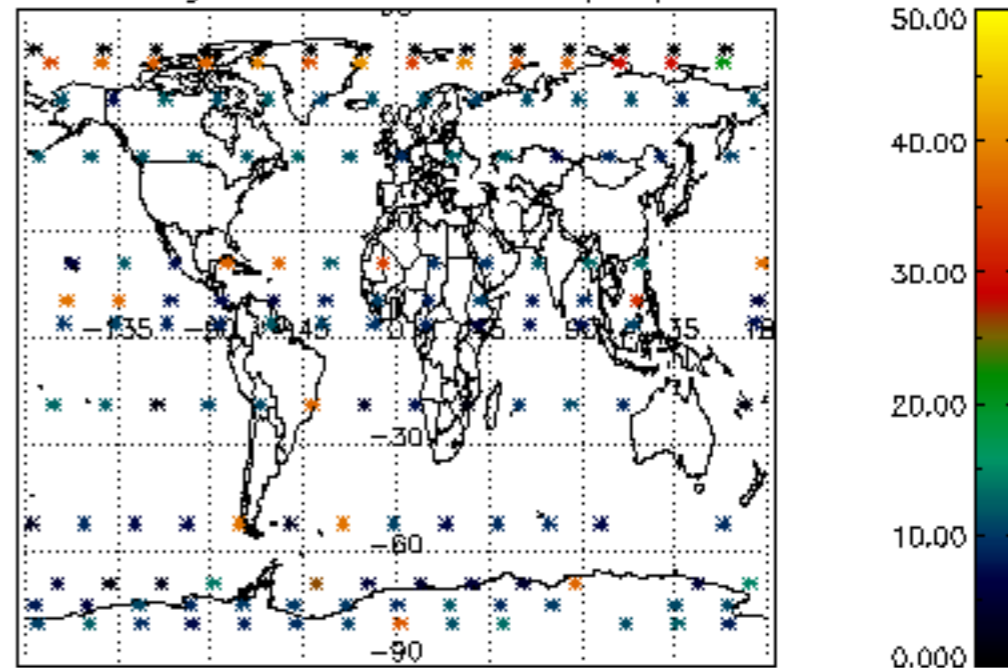
Percentage of datation errors per profile

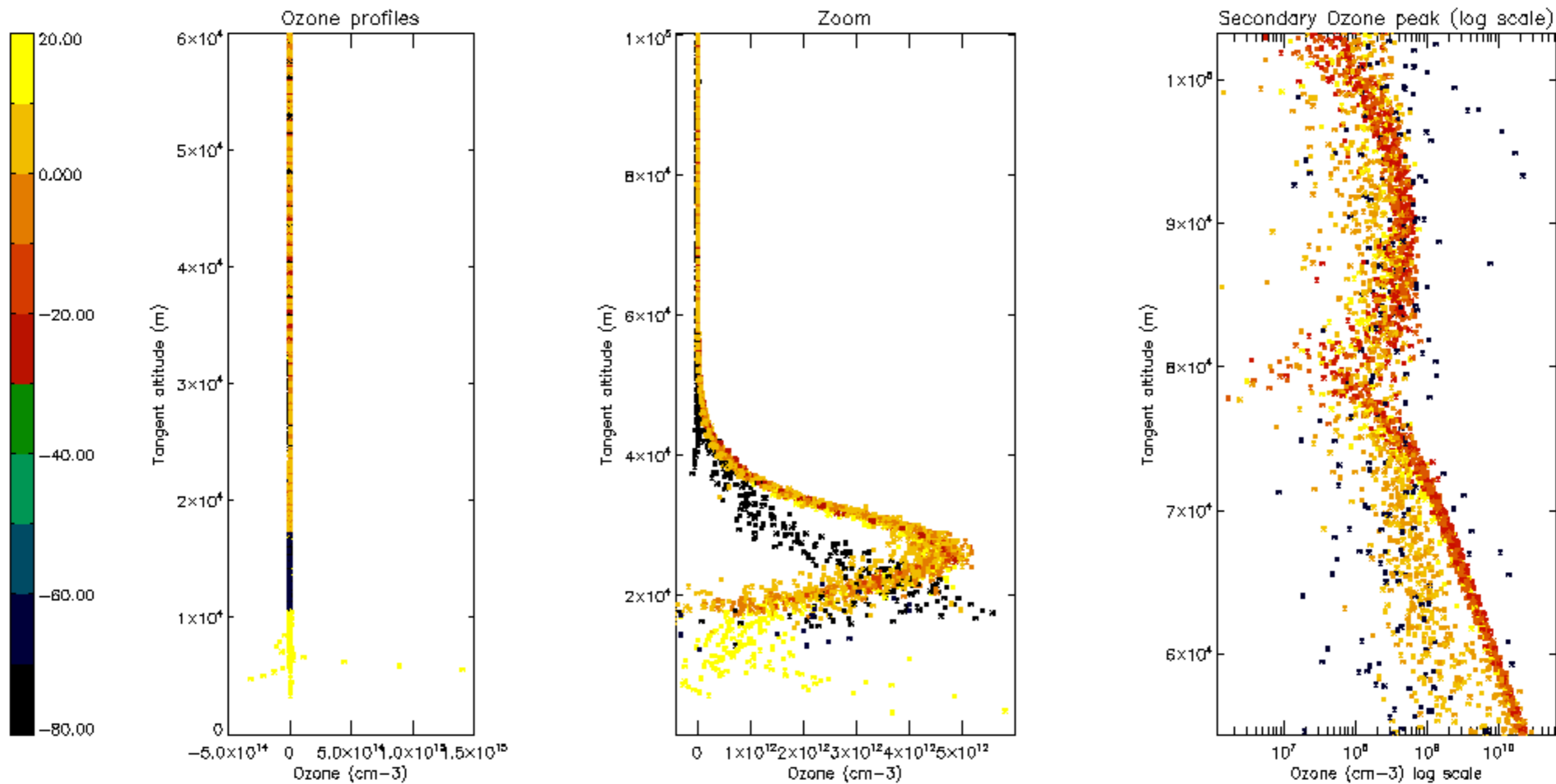


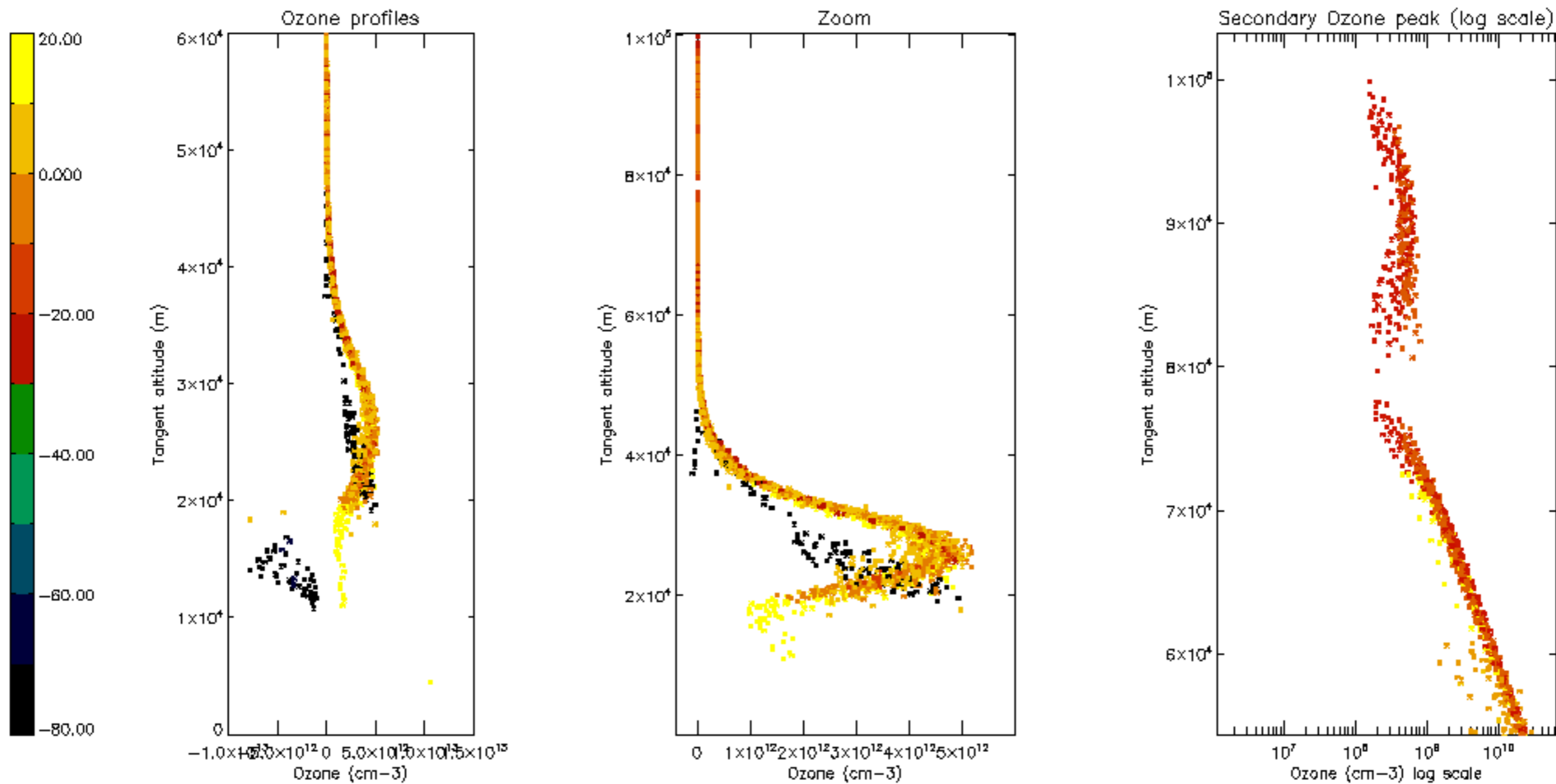
Percentage of star falling outside central band per profile



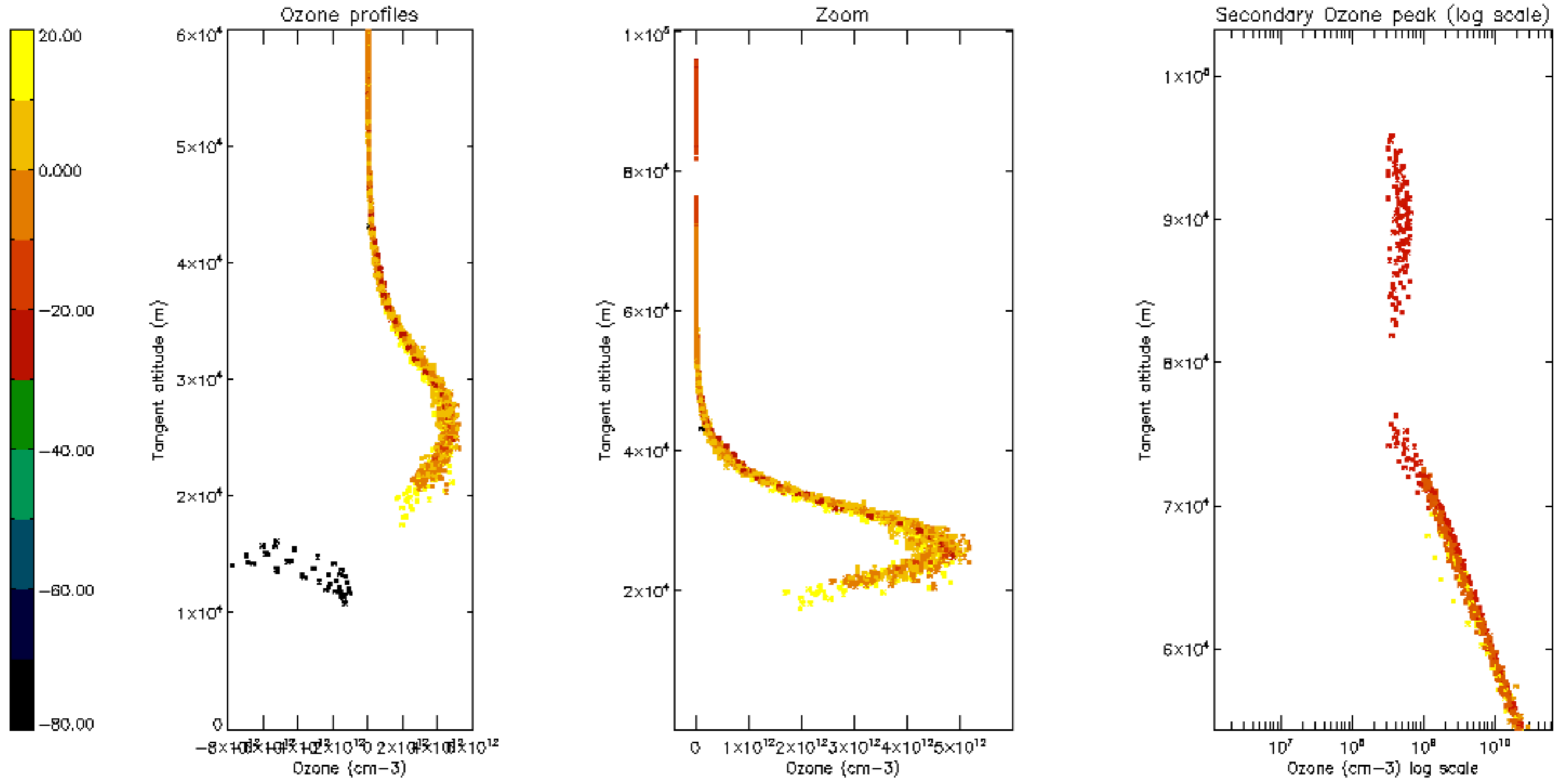
Percentage of saturation errors per profile

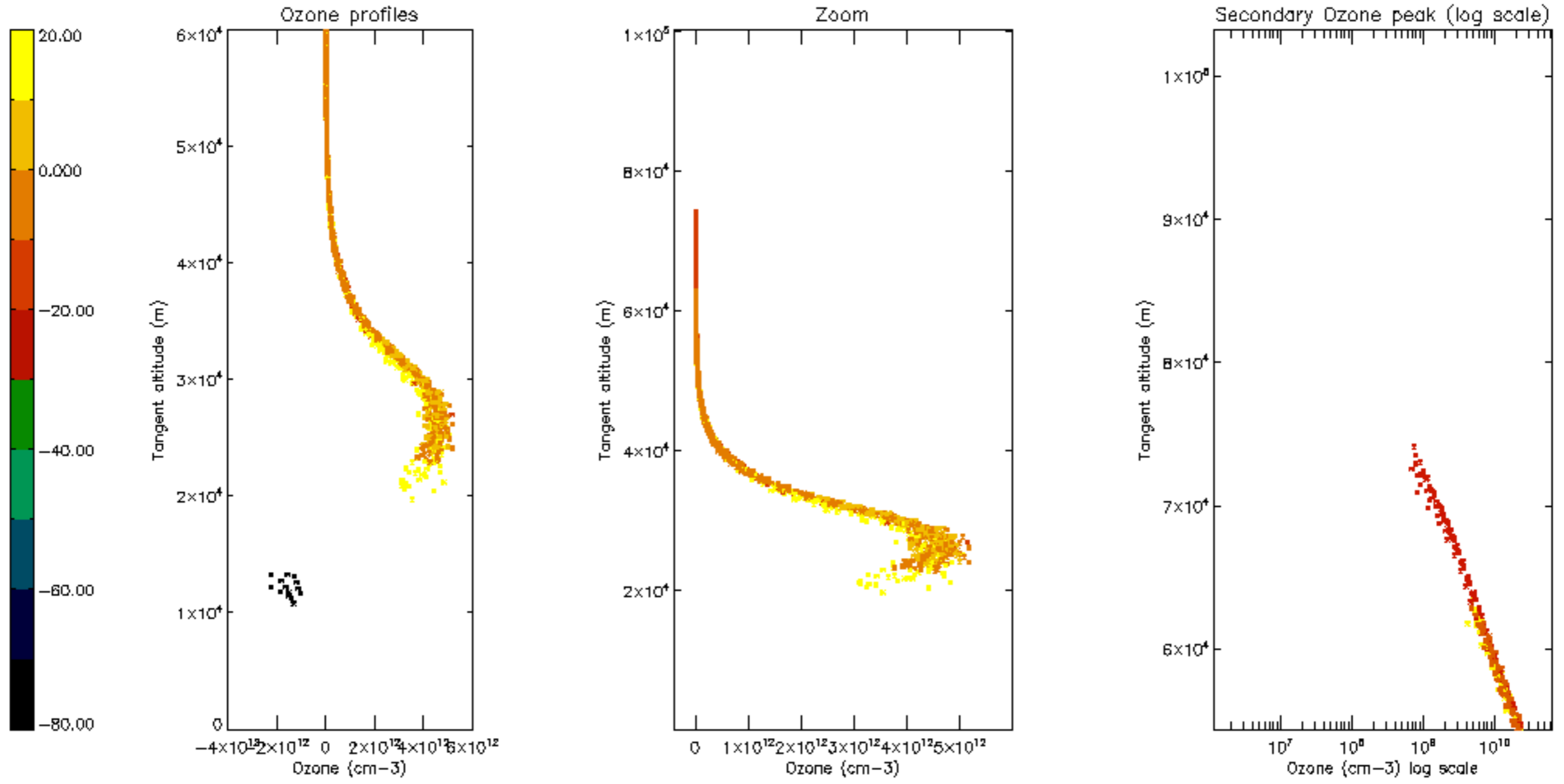


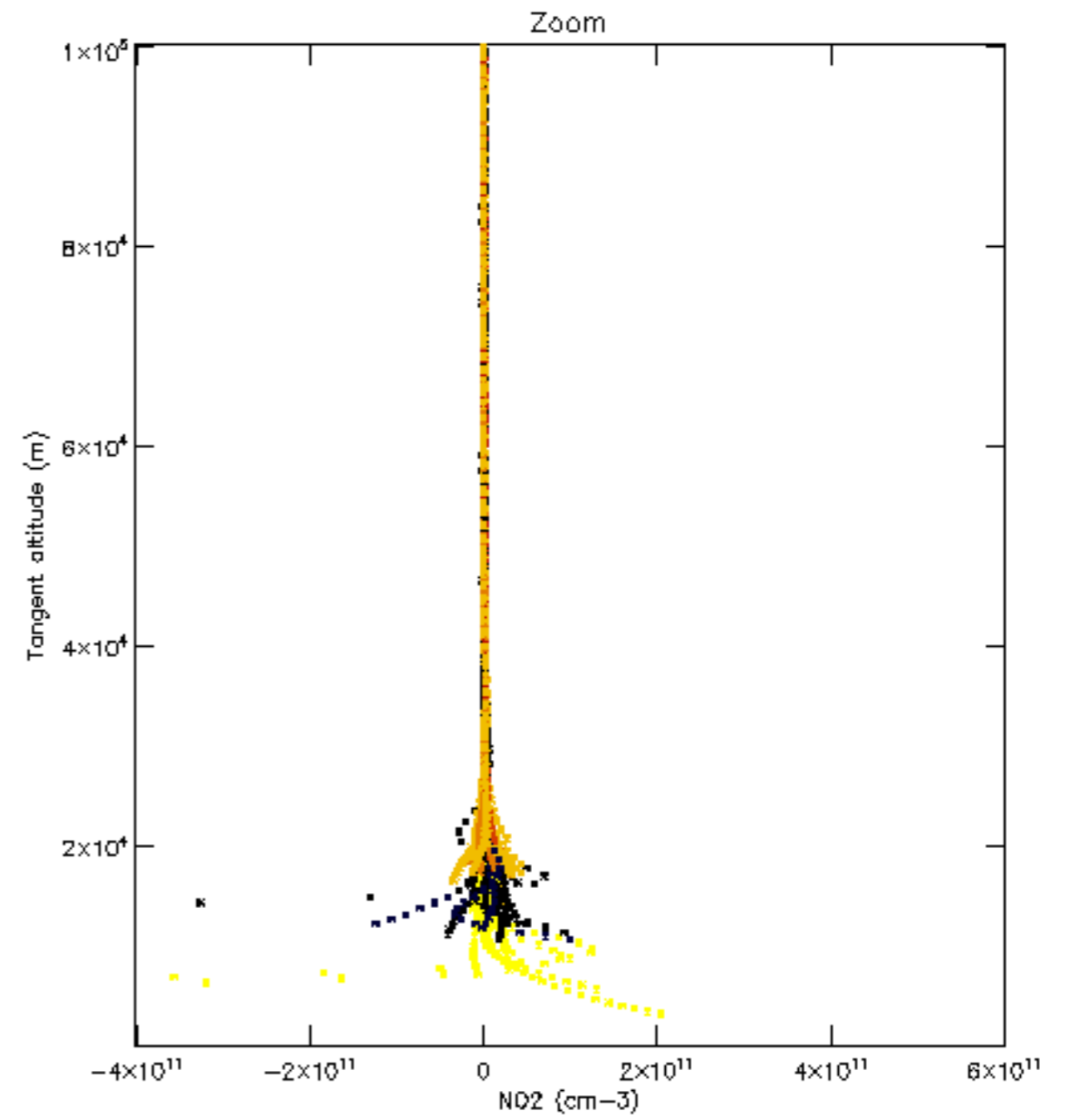
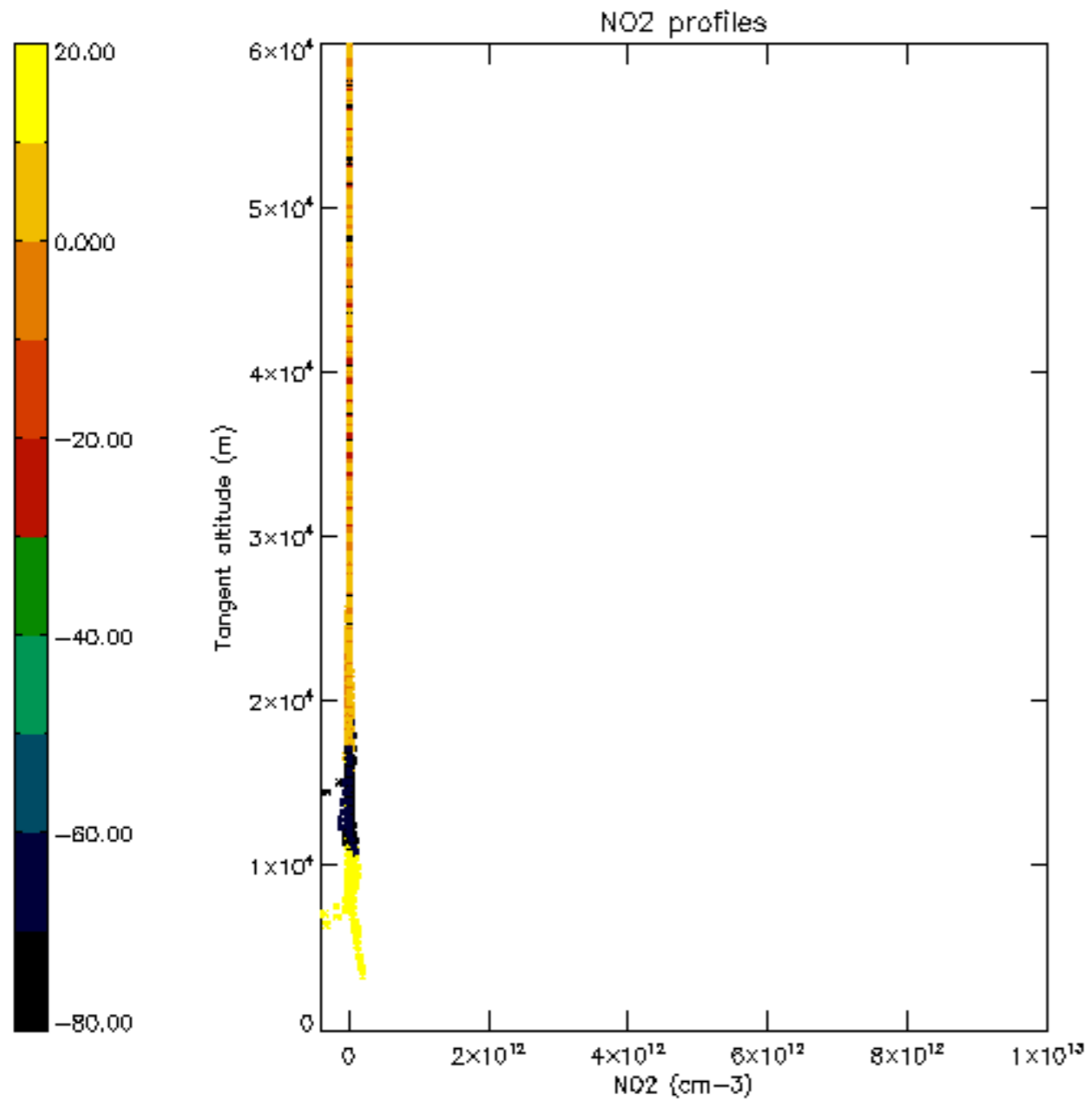


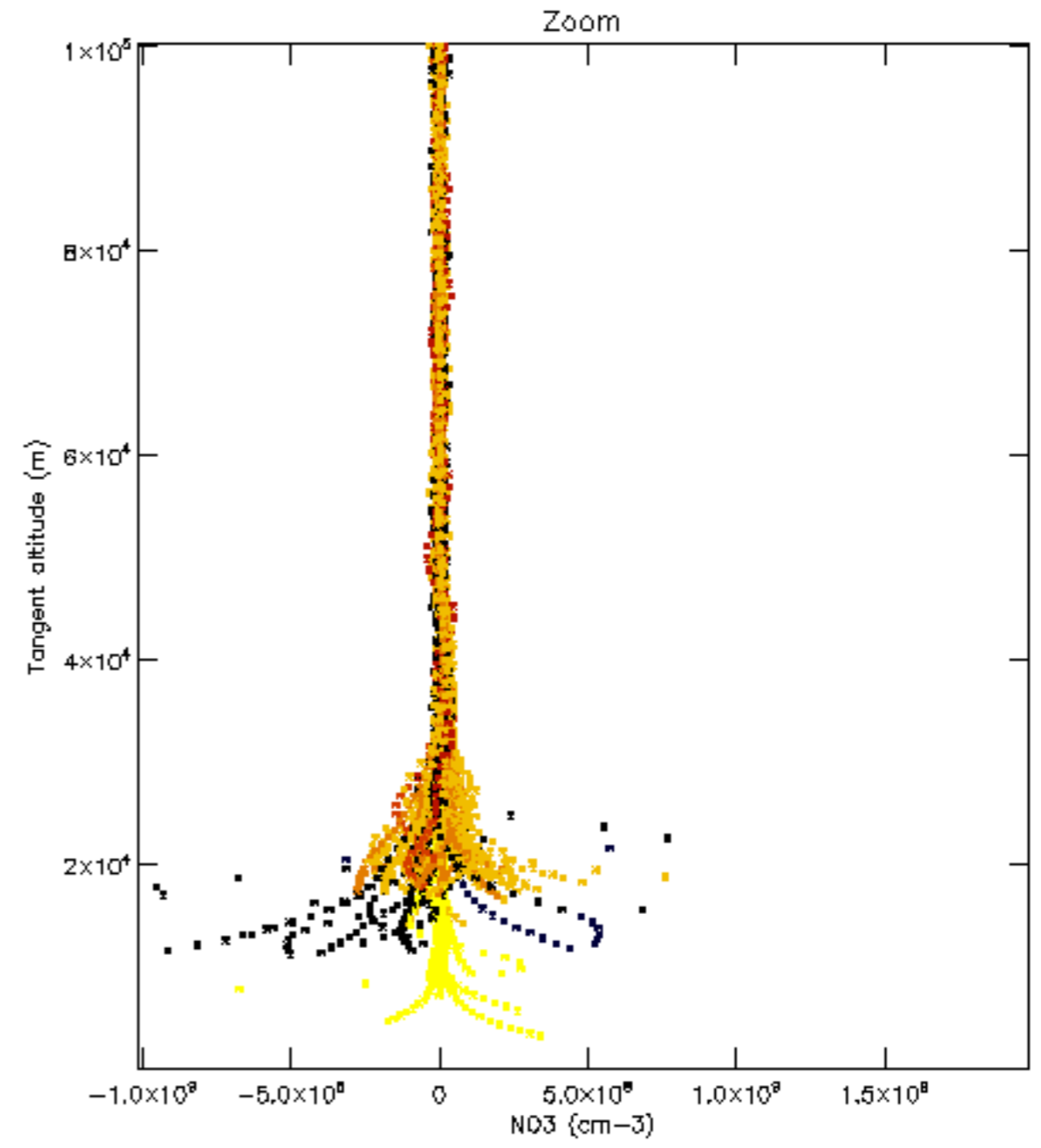
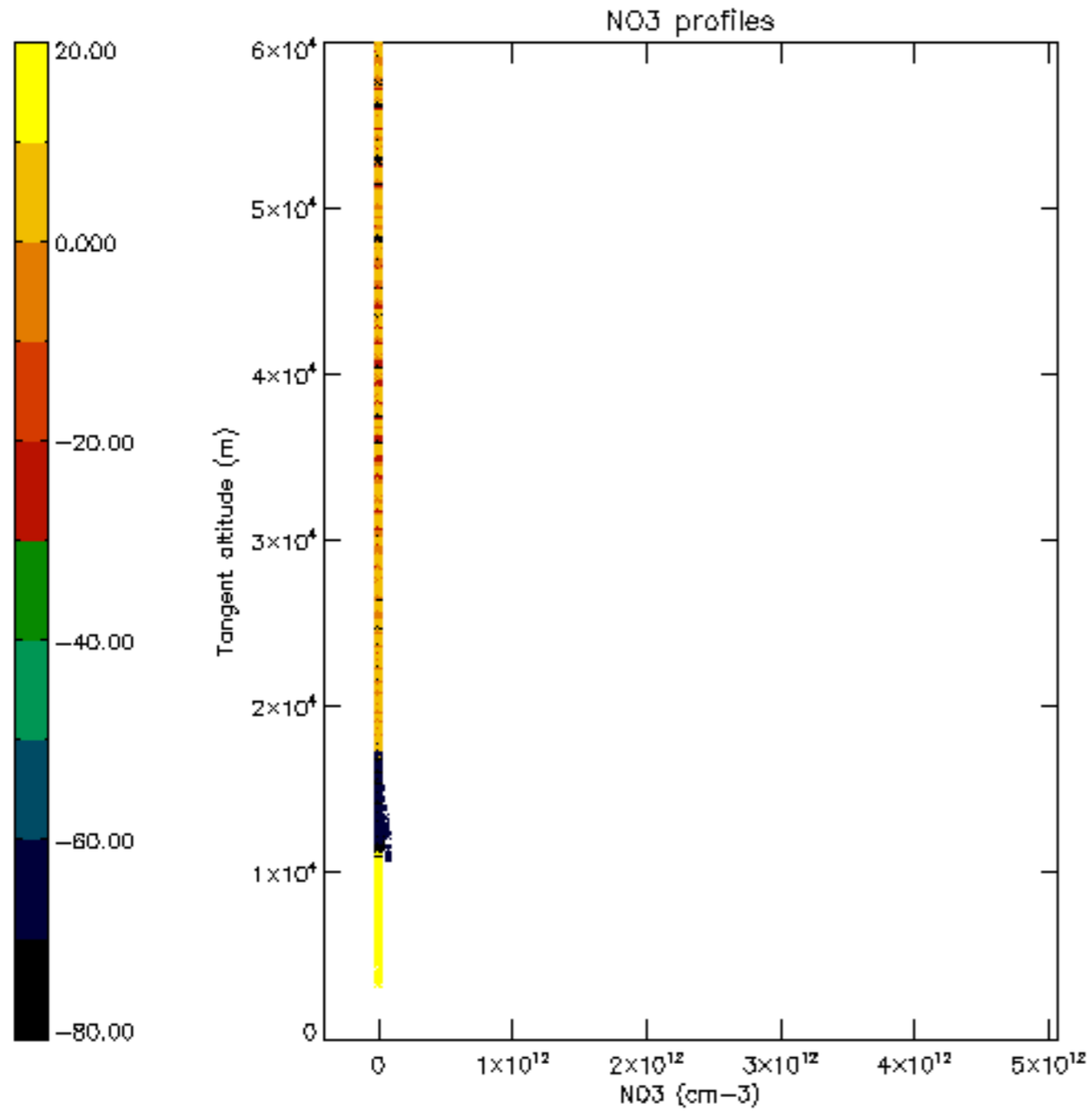


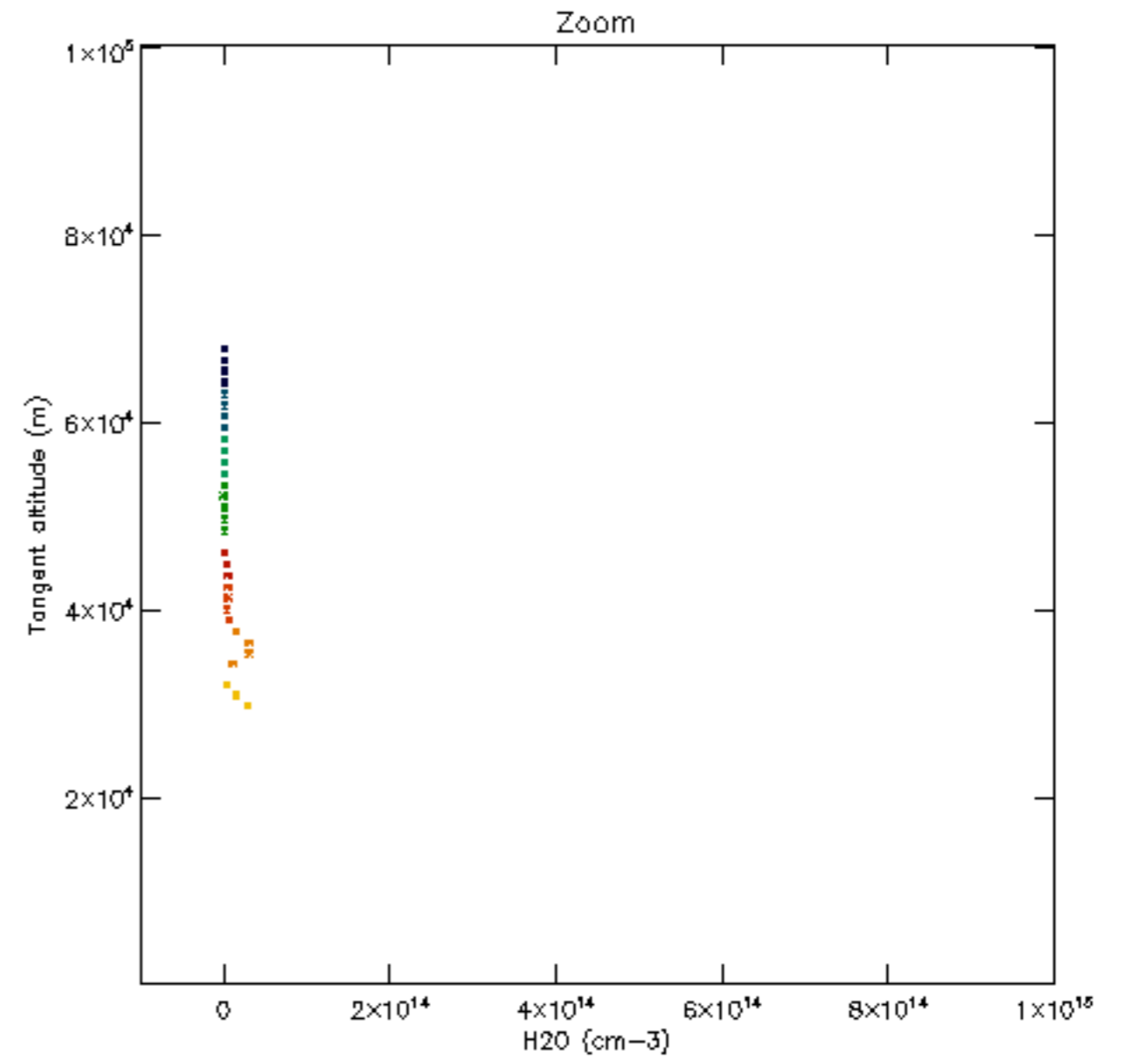
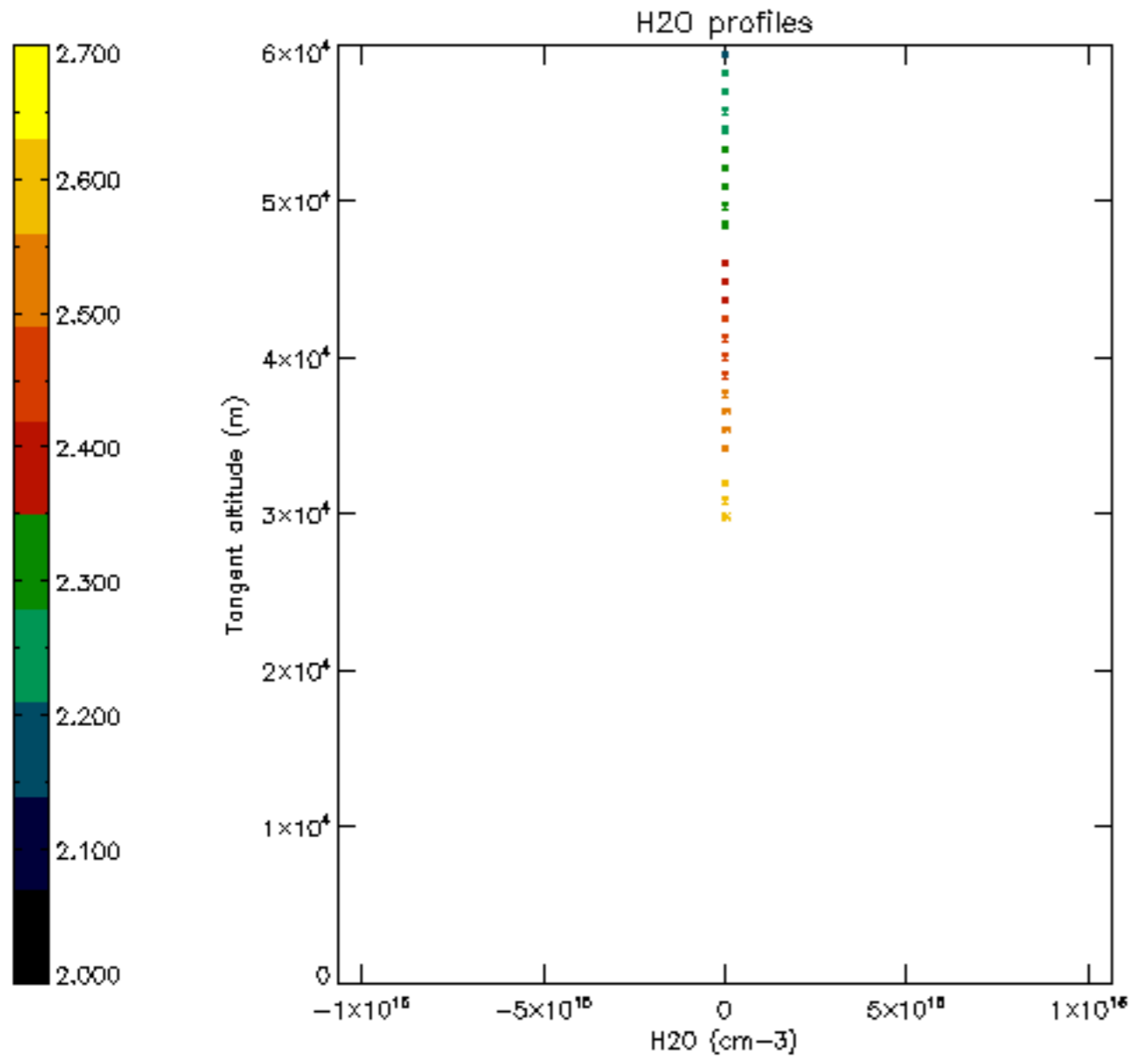


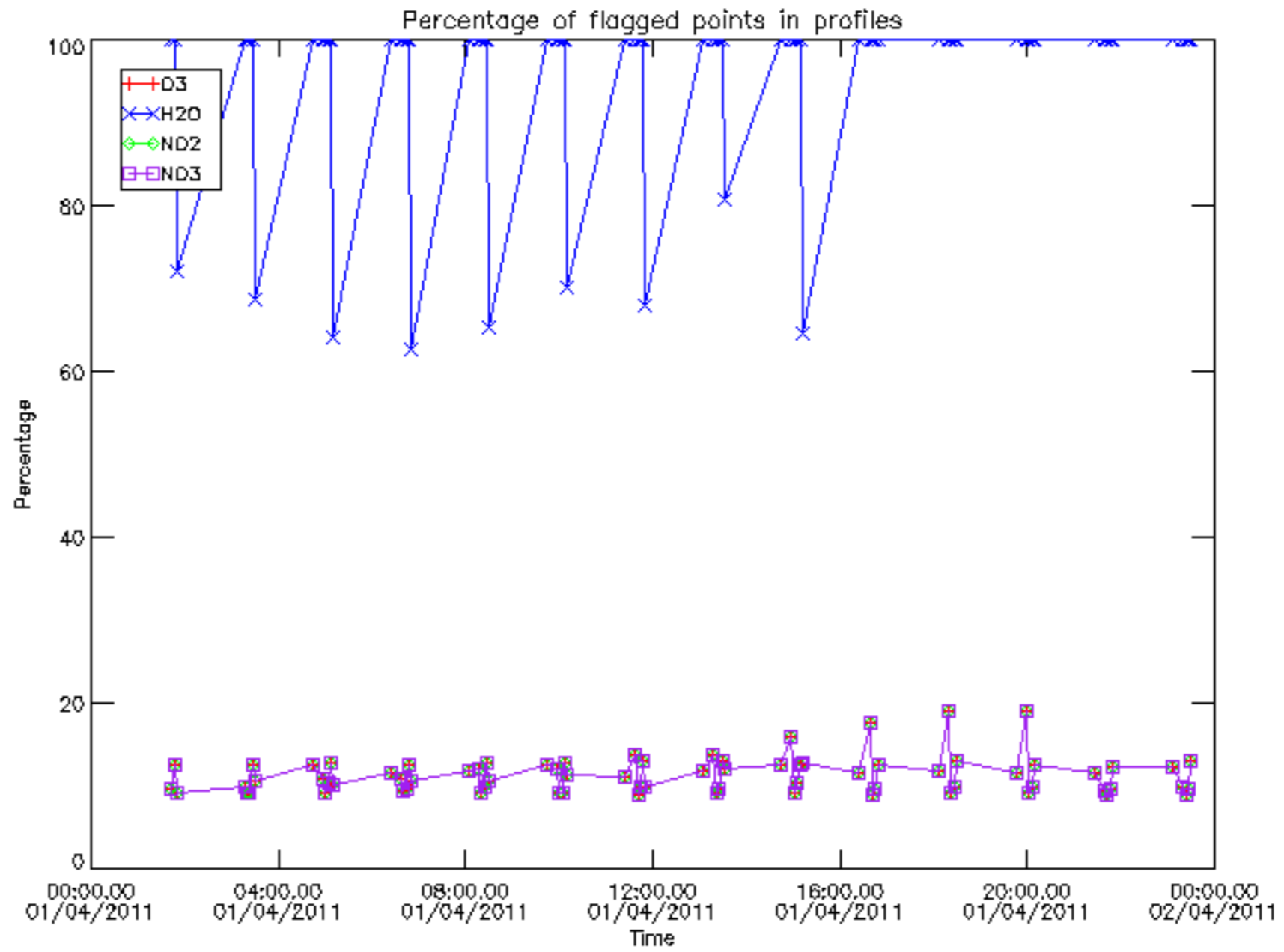




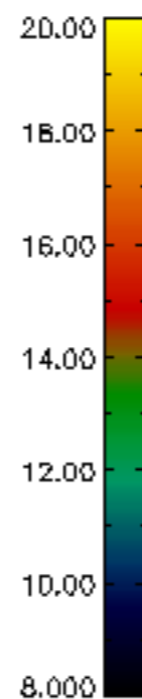
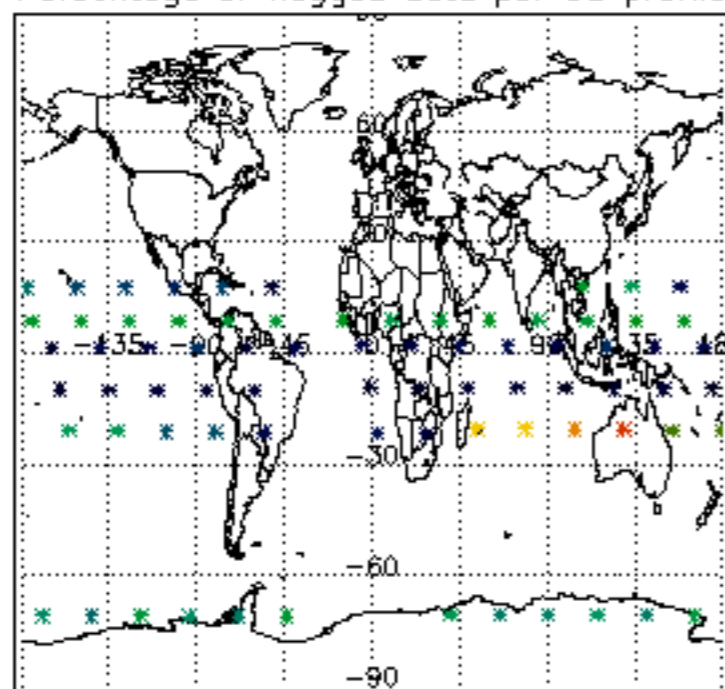




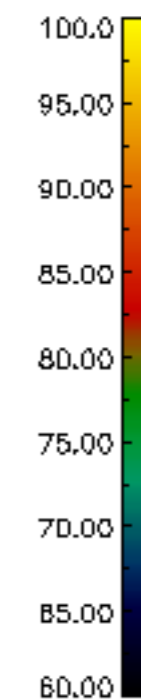
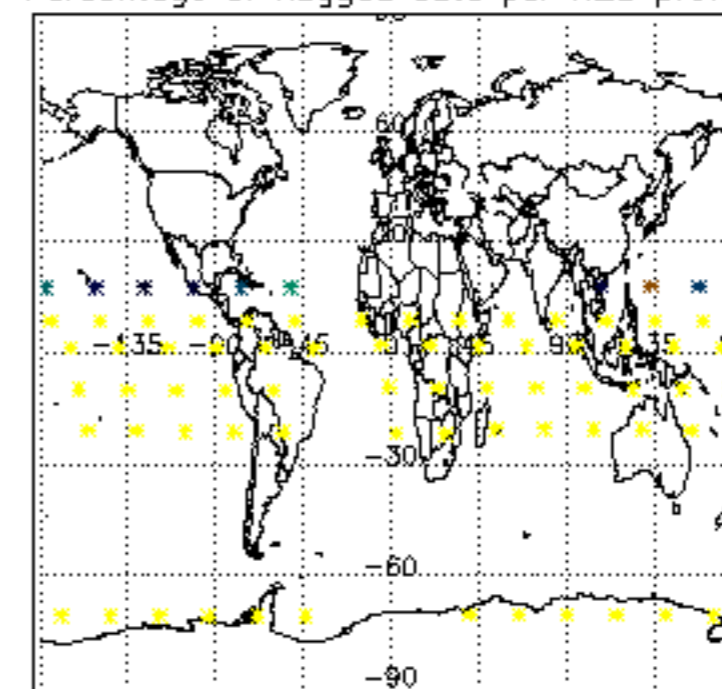




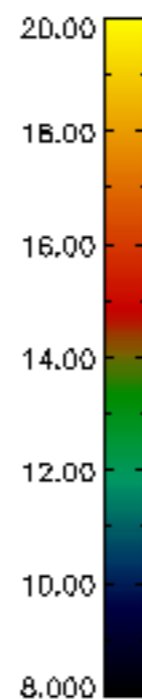
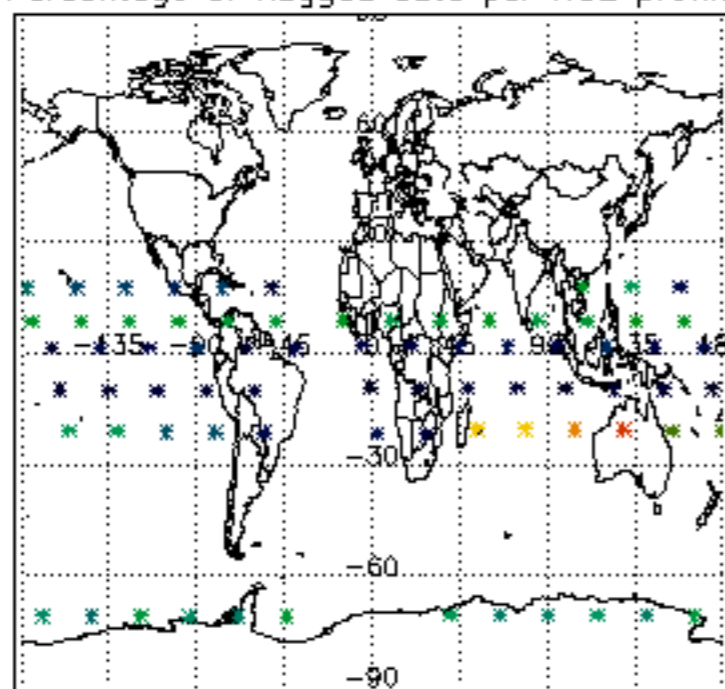
Percentage of flagged data per D3 profile



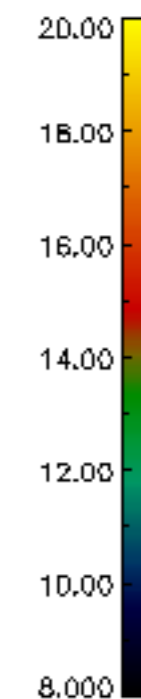
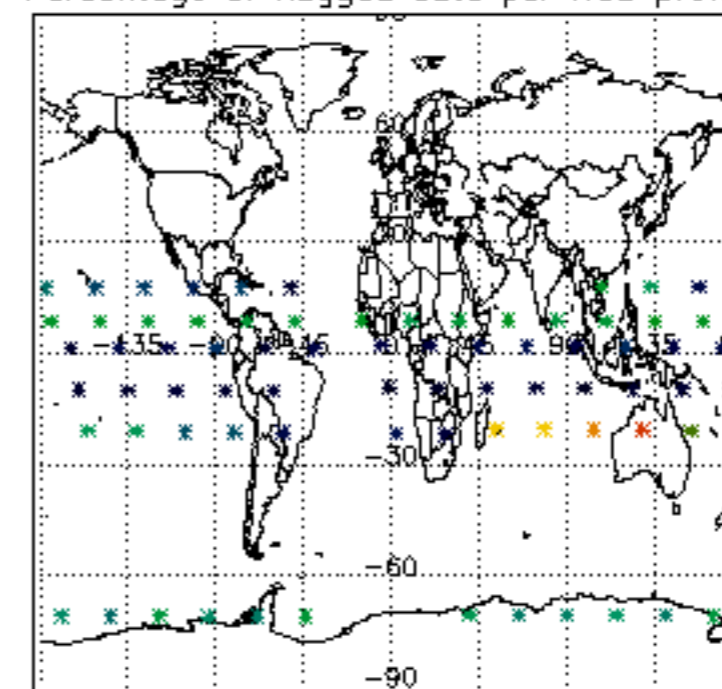
Percentage of flagged data per H2O profile

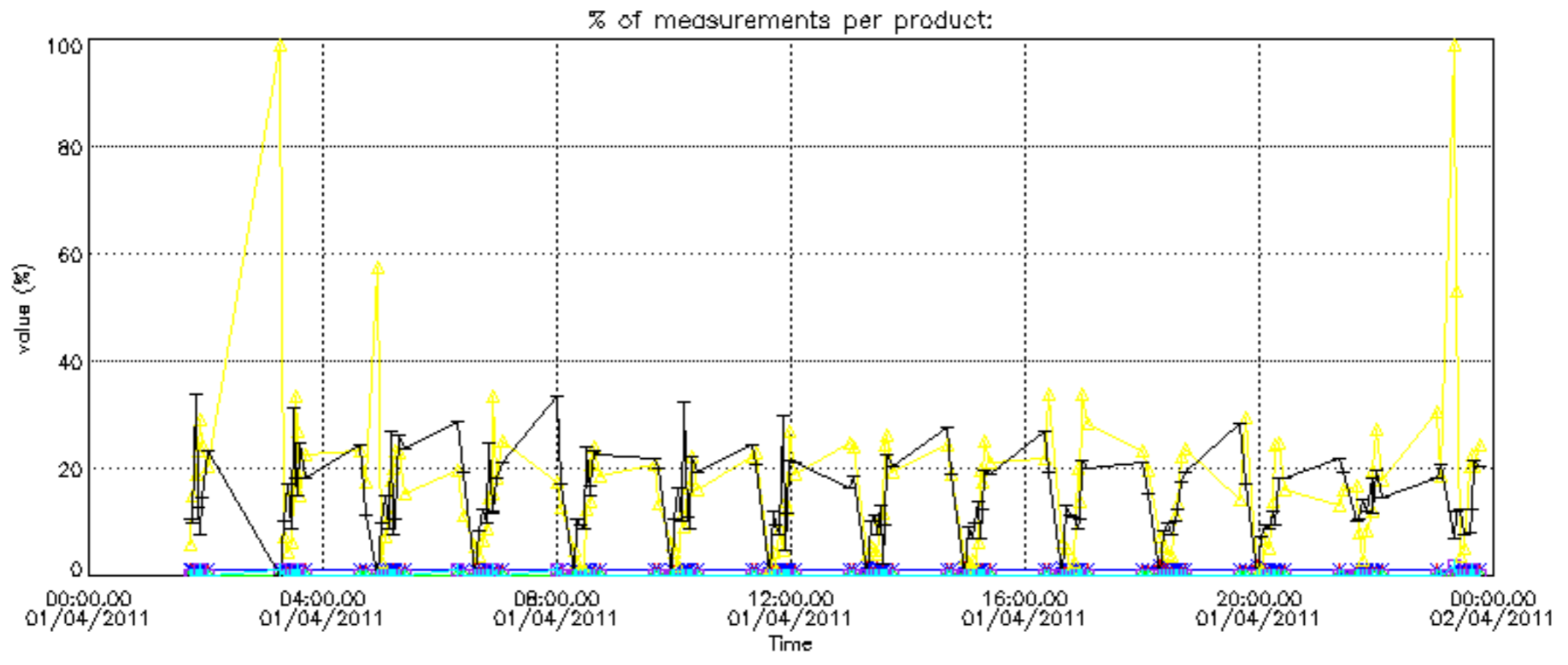


Percentage of flagged data per NO2 profile

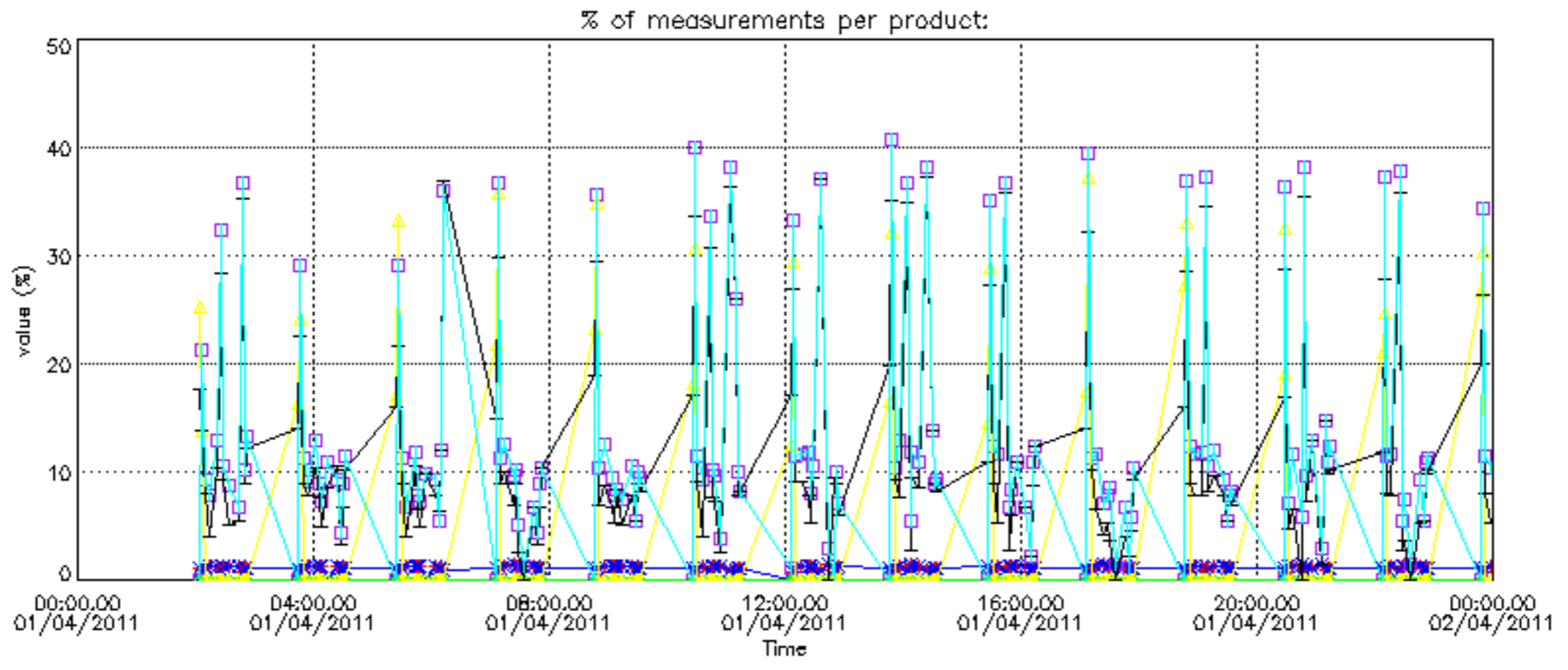


Percentage of flagged data per NO3 profile

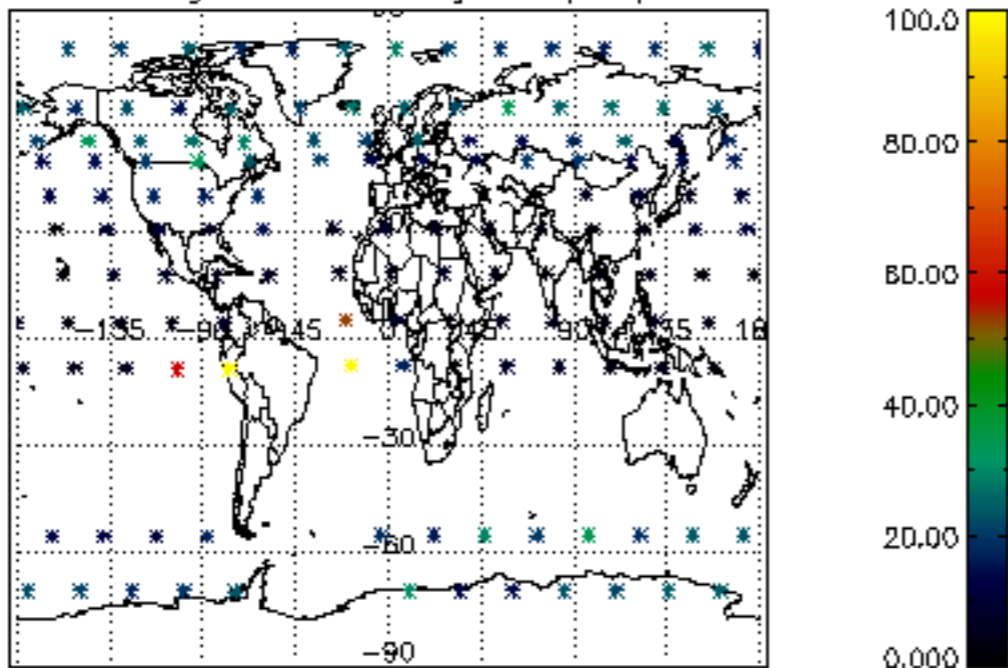




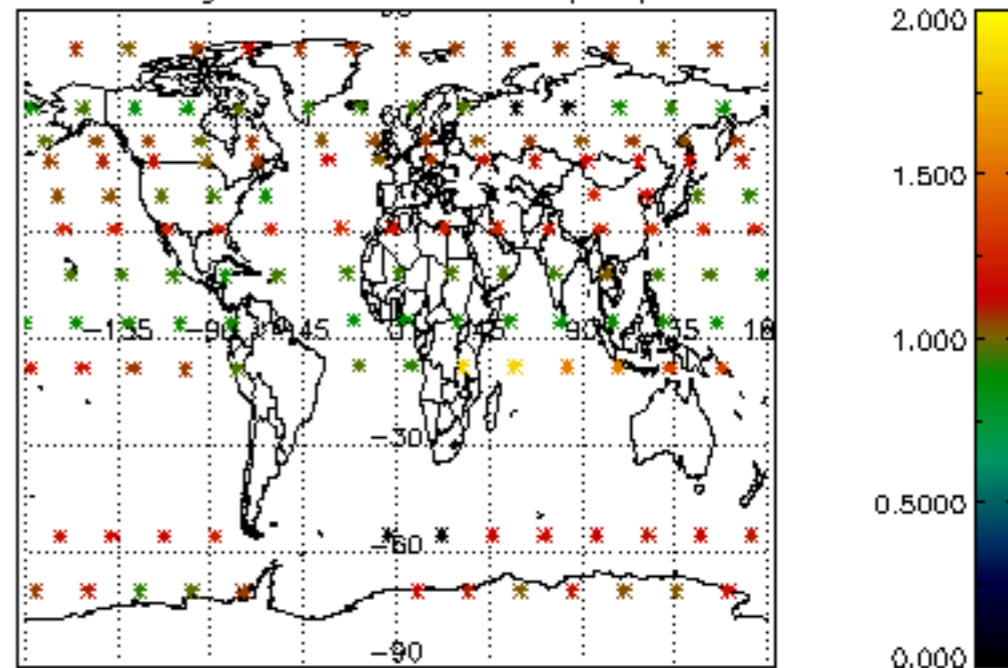




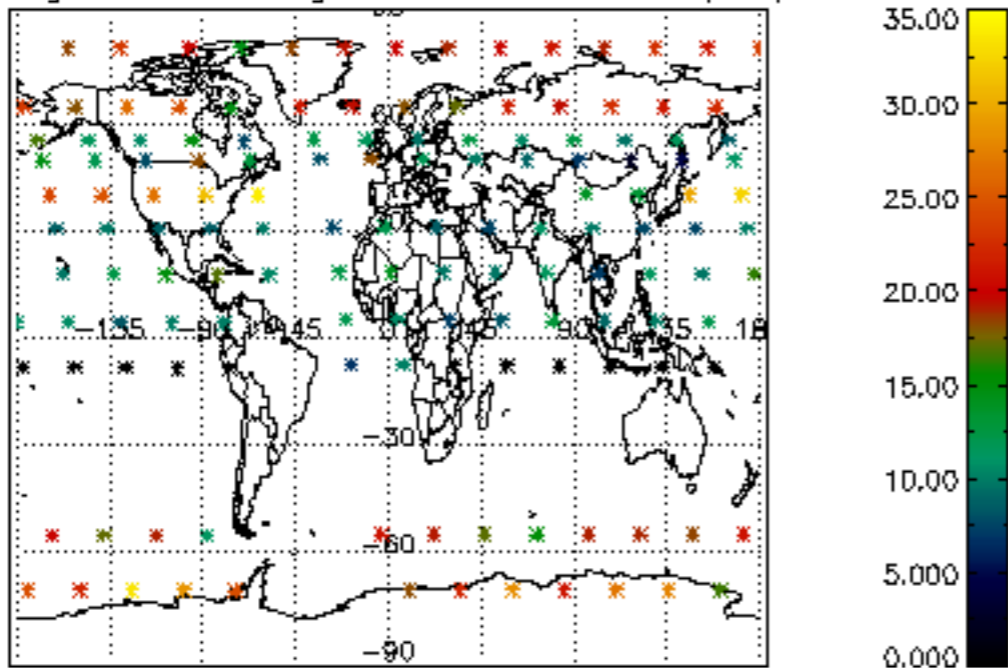
Percentage of cosmic ray hits per profile



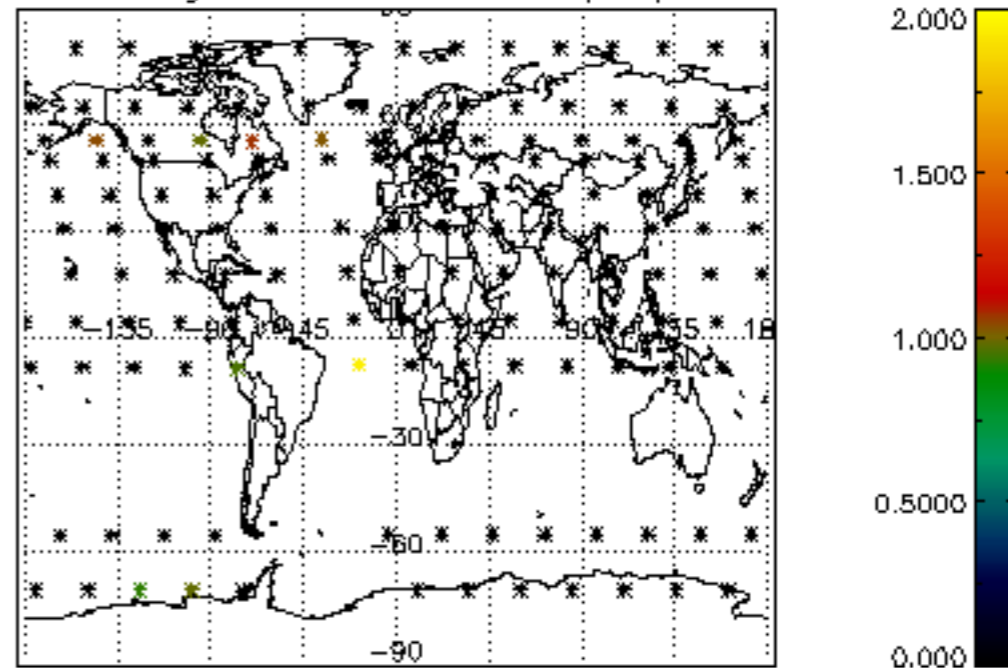
Percentage of datation errors per profile



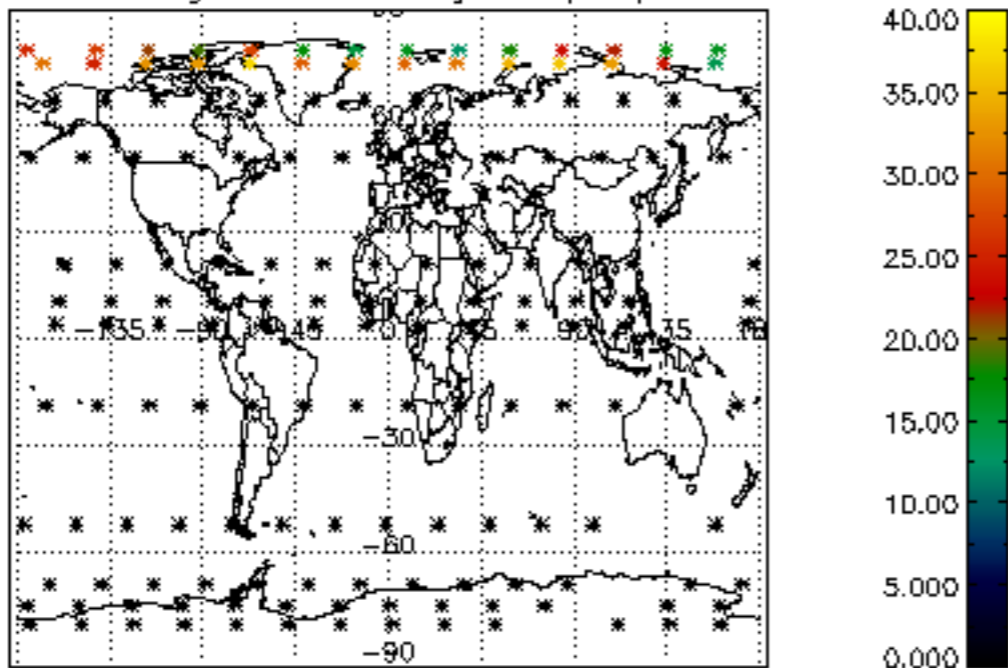
Percentage of star falling outside central band per profile



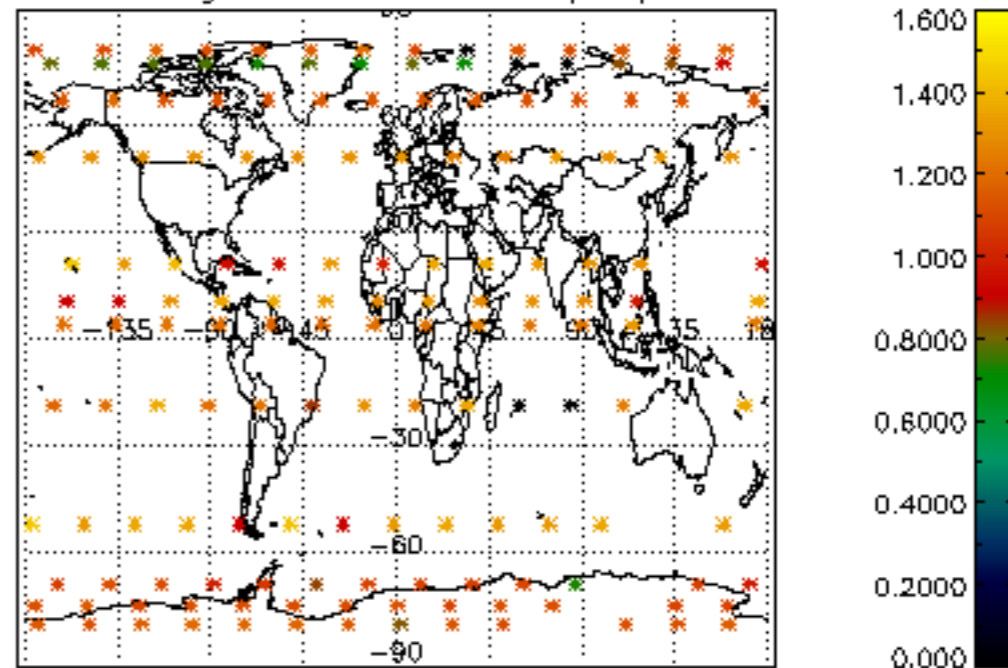
Percentage of saturation errors per profile



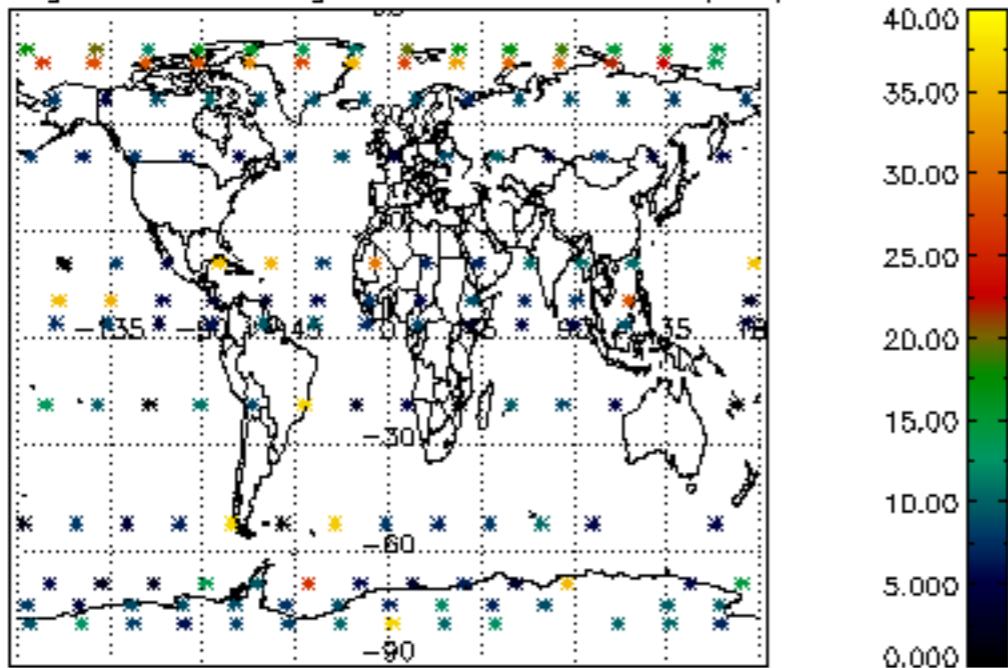
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

