

# GOMOS Level 2 Daily Report

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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM\_NL\_\_2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	18APR2013 14:12:01
Data source version	GOMOS/6.01
Start time of products	15-03-2012 (15MAR2012 00:00:00)
Stop time of products	16-03-2012 (16MAR2012 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	26
Nb of prods with errors	0

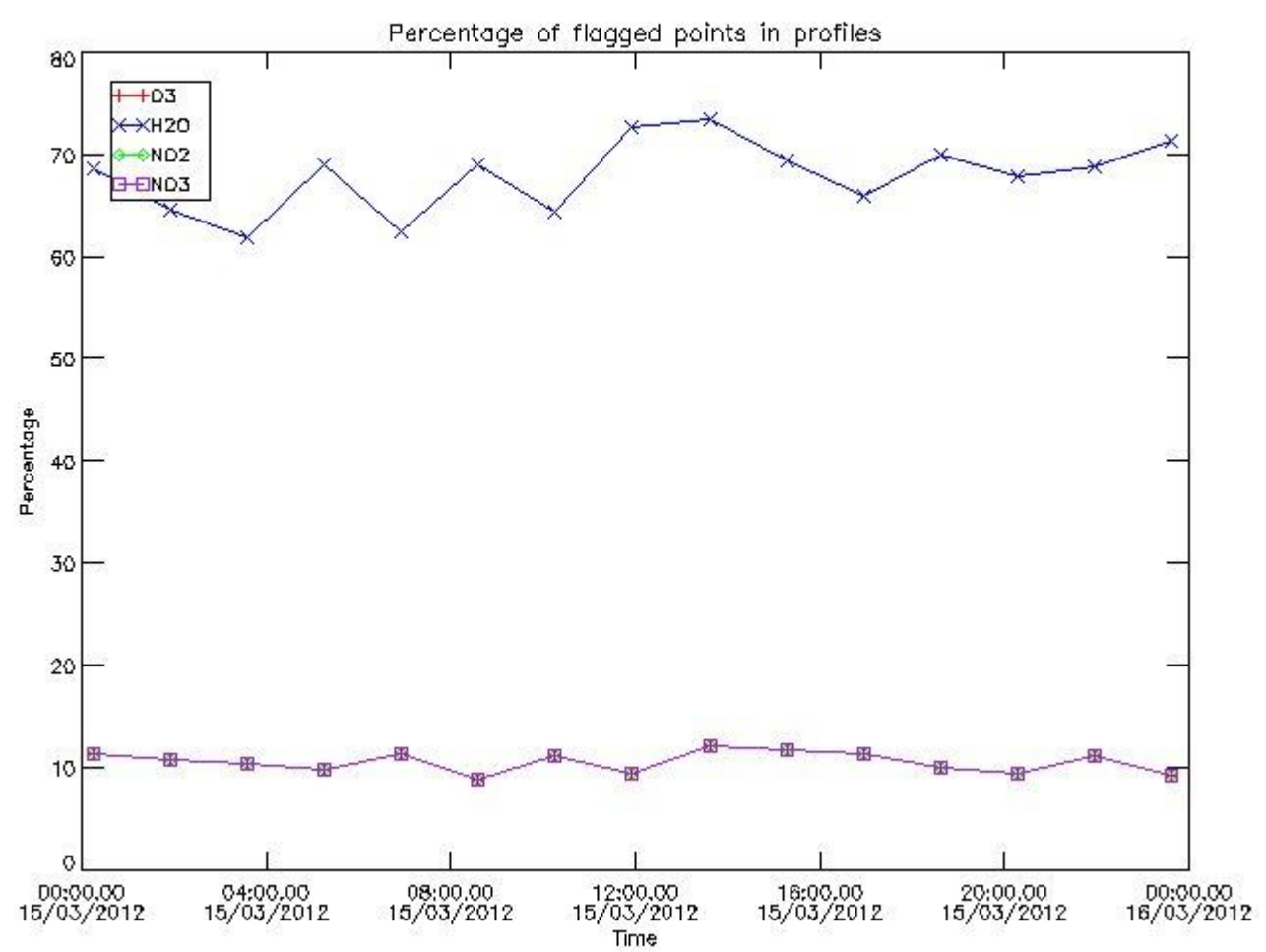
## 2. Summary of processed GOM\_NL\_\_2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20120315_001411_000000453112_00347_52516_4954.N1	15-MAR-2012 00:14:11	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	52516	No
2	GOM_NL__2PRFIN20120315_011442_000000383112_00347_52516_4955.N1	15-MAR-2012 01:14:42	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	52516	No
3	GOM_NL__2PRFIN20120315_015426_000000473112_00348_52517_4964.N1	15-MAR-2012 01:54:26	Dark	46.500	4	Alp1Cen	-0.010000	5800.0	93	52517	No
4	GOM_NL__2PRFIN20120315_025456_000000353112_00348_52517_4965.N1	15-MAR-2012 02:54:56	Bright	35.000	19	50Alp Cyg	1.2460	10500.	70	52517	No
5	GOM_NL__2PRFIN20120315_033440_000000493112_00349_52518_4981.N1	15-MAR-2012 03:34:40	Dark	48.500	4	Alp1Cen	-0.010000	5800.0	97	52518	No
6	GOM_NL__2PRFIN20120315_043510_000000383112_00349_52518_4982.N1	15-MAR-2012 04:35:10	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	52518	No
7	GOM_NL__2PRFIN20120315_051455_000000573112_00350_52519_5006.N1	15-MAR-2012 05:14:55	Dark	56.500	4	Alp1Cen	-0.010000	5800.0	113	52519	No
8	GOM_NL__2PRFIN20120315_061524_000000383112_00350_52519_5007.N1	15-MAR-2012 06:15:24	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	52519	No
9	GOM_NL__2PRFIN20120315_065509_000000443112_00351_52520_5023.N1	15-MAR-2012 06:55:09	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	52520	No
10	GOM_NL__2PRFIN20120315_075539_000000393112_00351_52520_5024.N1	15-MAR-2012 07:55:39	Bright	38.500	19	50Alp Cyg	1.2460	10500.	77	52520	No
11	GOM_NL__2PRFIN20120315_083524_000000573112_00352_52521_5047.N1	15-MAR-2012 08:35:24	Dark	56.500	4	Alp1Cen	-0.010000	5800.0	113	52521	No
12	GOM_NL__2PRFIN20120315_093553_000000363112_00352_52521_5048.N1	15-MAR-2012 09:35:53	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	52521	No
13	GOM_NL__2PRFIN20120315_101538_000000453112_00353_52522_5093.N1	15-MAR-2012 10:15:38	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	52522	No
14	GOM_NL__2PRFIN20120315_111606_000000363112_00353_52522_5094.N1	15-MAR-2012 11:16:06	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	52522	No
15	GOM_NL__2PRFIN20120315_115553_000000533112_00354_52523_5128.N1	15-MAR-2012 11:55:53	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	52523	No
16	GOM_NL__2PRFIN20120315_125620_000000343112_00354_52523_5129.N1	15-MAR-2012 12:56:20	Bright	34.000	19	50Alp Cyg	1.2460	10500.	68	52523	No
17	GOM_NL__2PRFIN20120315_133607_000000423112_00355_52524_5216.N1	15-MAR-2012 13:36:07	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	52524	No
18	GOM_NL__2PRFIN20120315_151622_000000433112_00356_52525_5253.N1	15-MAR-2012 15:16:22	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	52525	No
19	GOM_NL__2PRFIN20120315_165636_000000443112_00357_52526_5285.N1	15-MAR-2012 16:56:36	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	52526	No
20	GOM_NL__2PRFIN20120315_183651_000000503112_00358_52527_5313.N1	15-MAR-2012 18:36:51	Dark	50.000	4	Alp1Cen	-0.010000	5800.0	100	52527	No
21	GOM_NL__2PRFIN20120315_194035_000000383112_00358_52527_5314.N1	15-MAR-2012 19:40:35	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	52527	No
22	GOM_NL__2PRFIN20120315_201705_000000533112_00359_52528_5342.N1	15-MAR-2012 20:17:05	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	52528	No
23	GOM_NL__2PRFIN20120315_212049_000000353112_00359_52528_5343.N1	15-MAR-2012 21:20:49	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	52528	No
24	GOM_NL__2PRFIN20120315_215720_000000463112_00360_52529_5375.N1	15-MAR-2012 21:57:20	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	52529	No
25	GOM_NL__2PRFIN20120315_230103_000000363112_00360_52529_5376.N1	15-MAR-2012 23:01:03	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	52529	No
26	GOM_NL__2PRFIN20120315_233734_000000553112_00361_52530_5385.N1	15-MAR-2012 23:37:34	Dark	54.500	4	Alp1Cen	-0.010000	5800.0	109	52530	No

## 3. Quality information per product

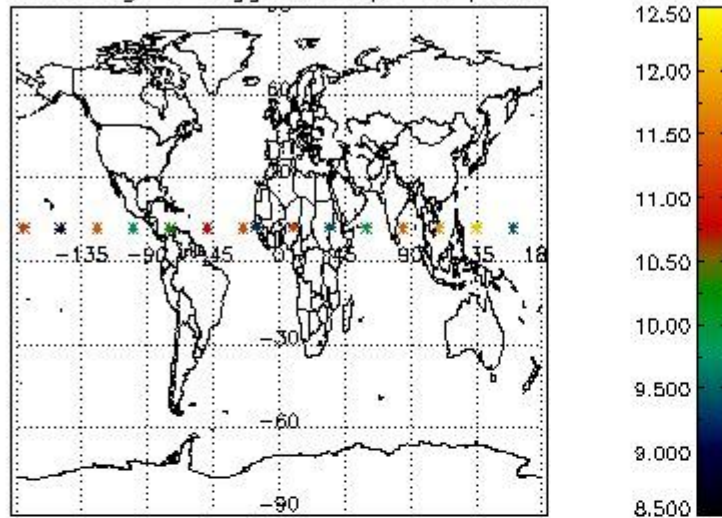
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

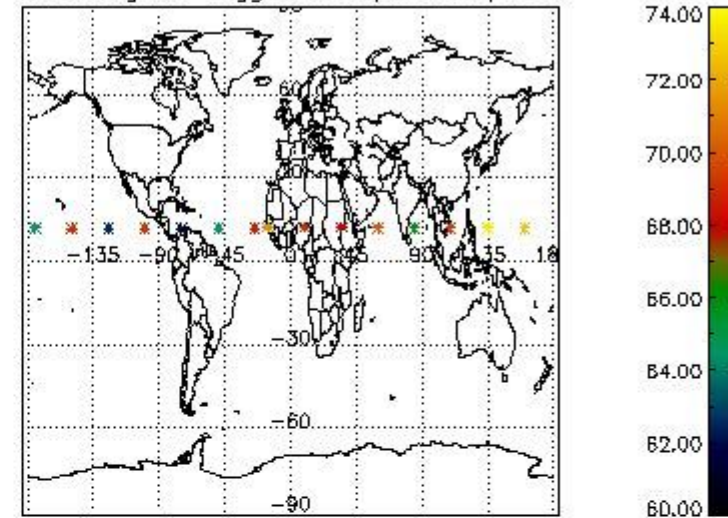


*3.2 Plot quality information per product (world map)*

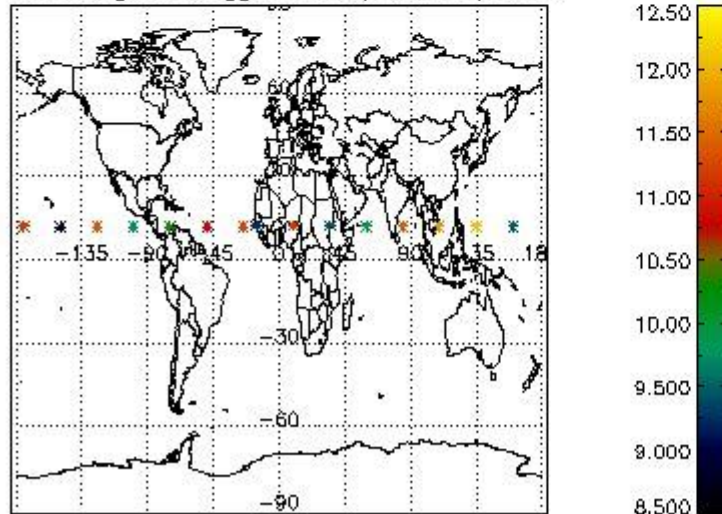
Percentage of flagged data per O3 profile



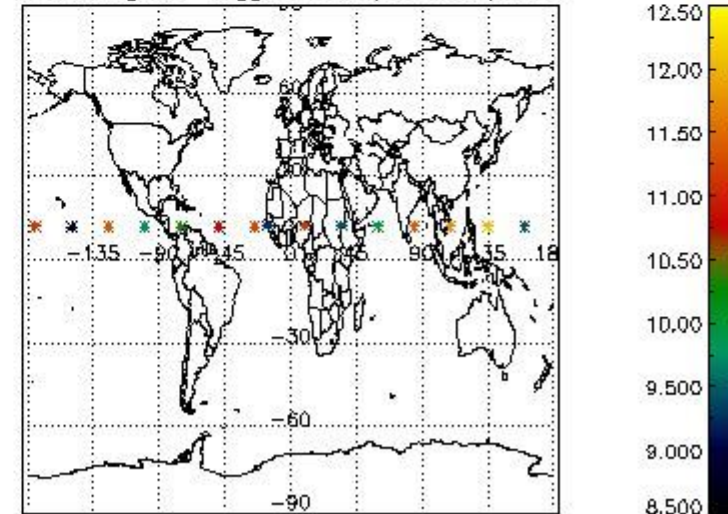
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

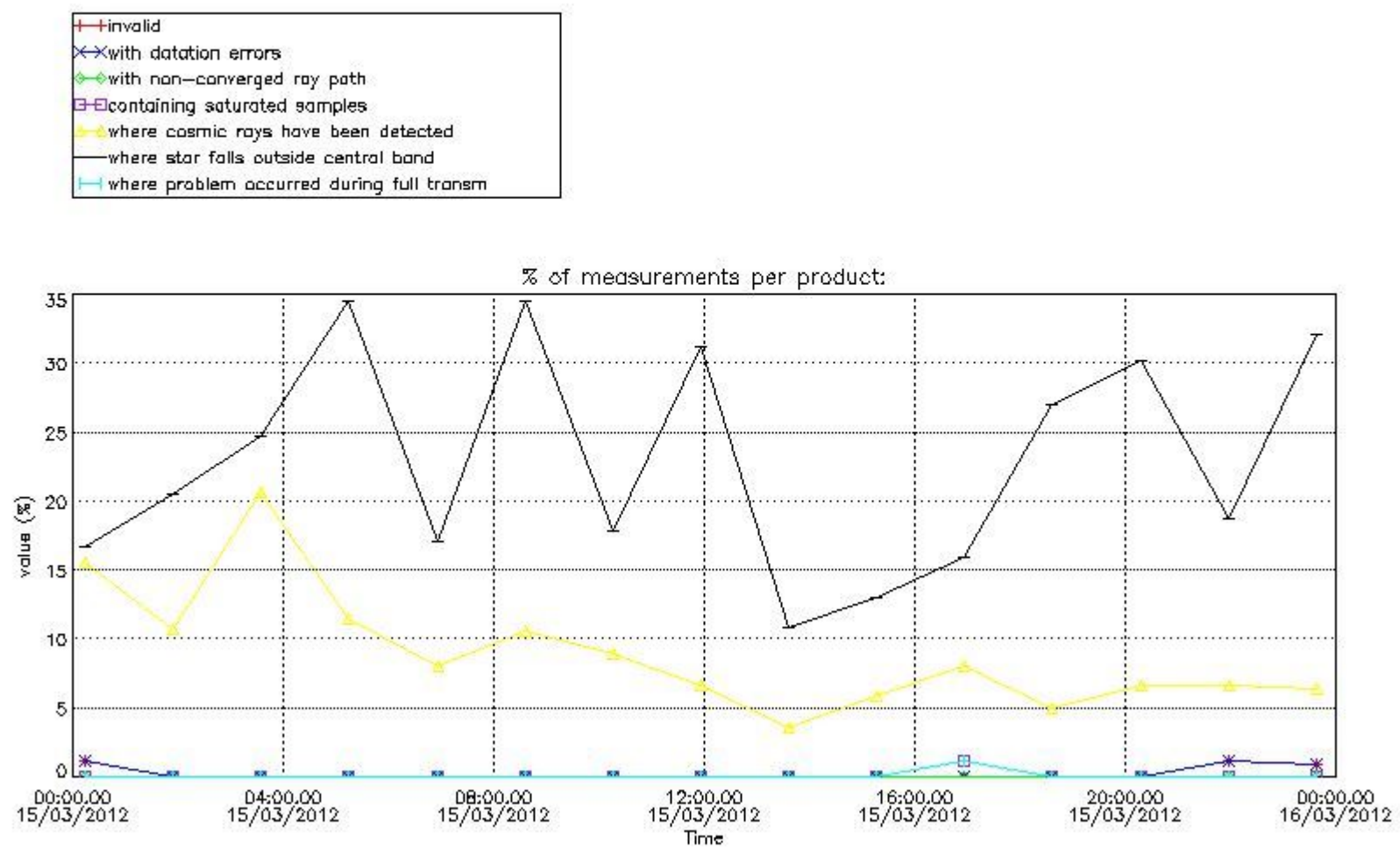


#### 4. Level 1 quality information per product

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.

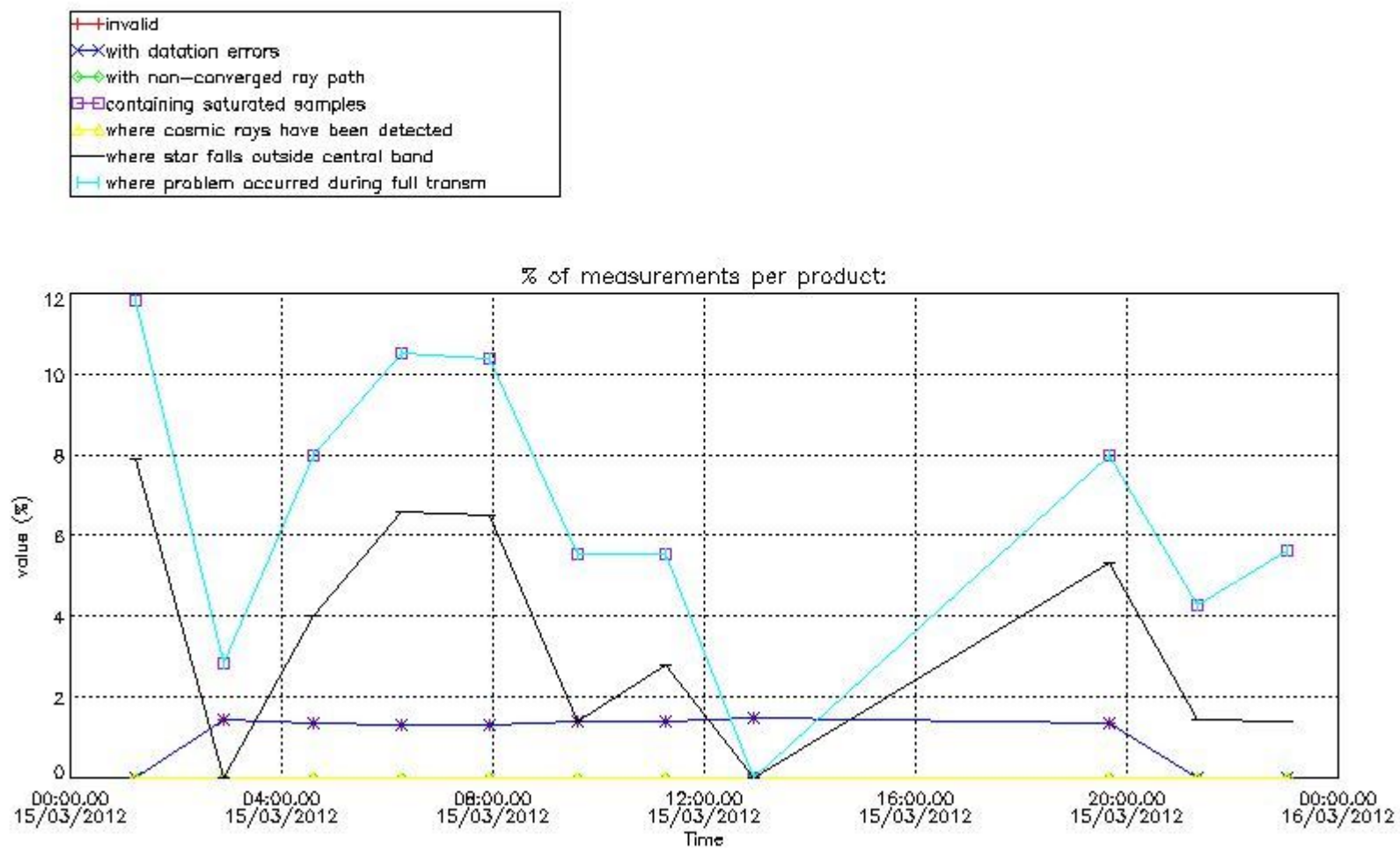
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

###### 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

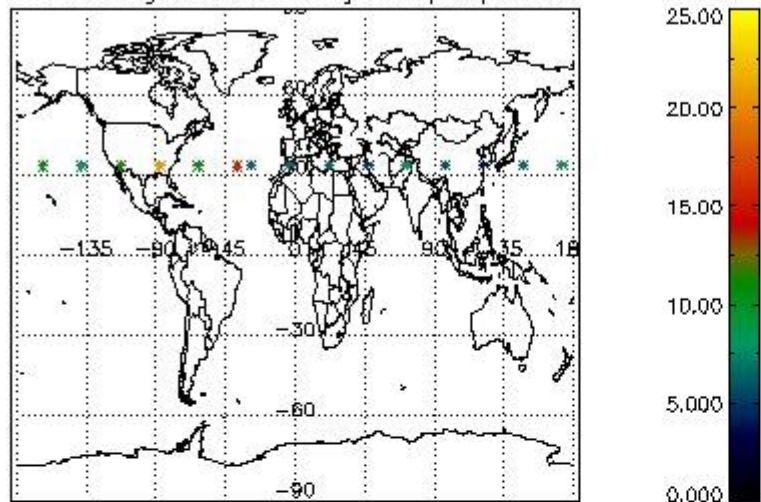




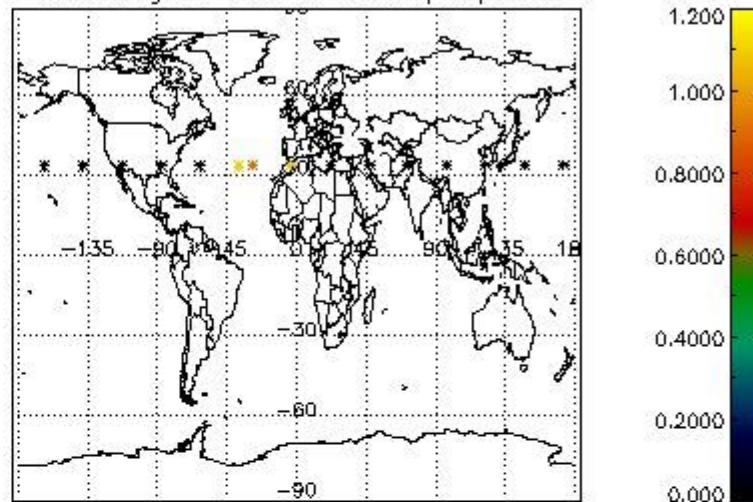
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

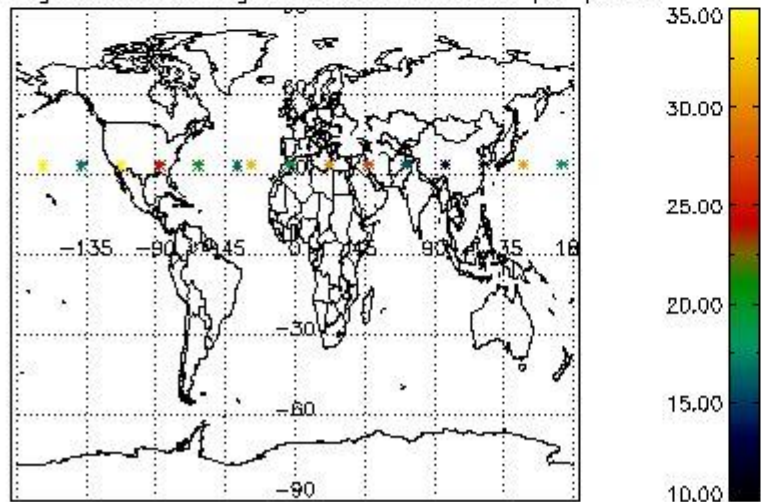
Percentage of cosmic ray hits per profile



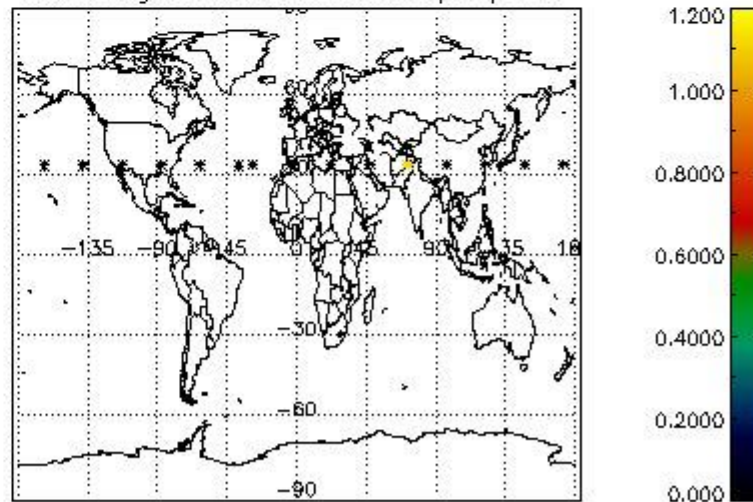
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

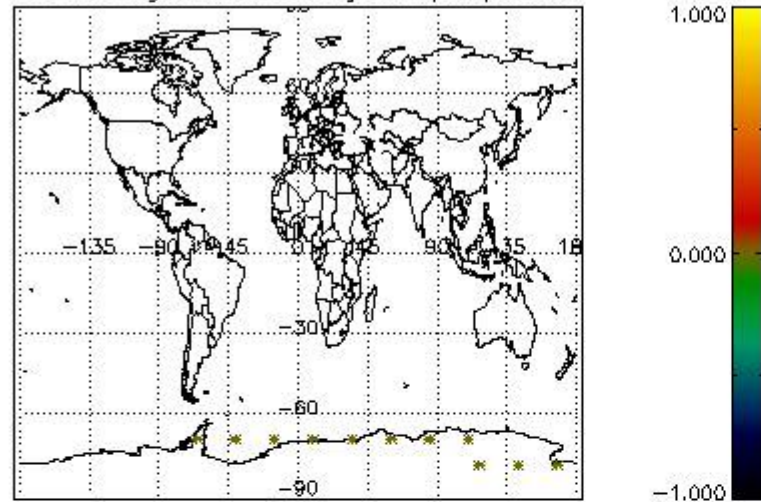


Percentage of saturation errors per profile

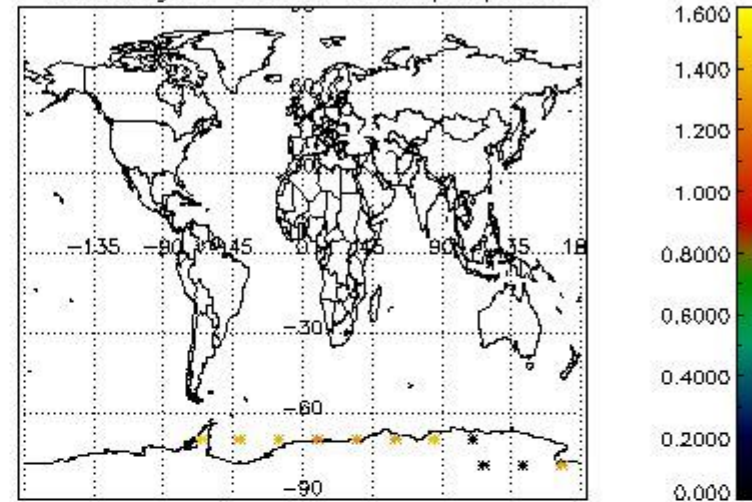


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

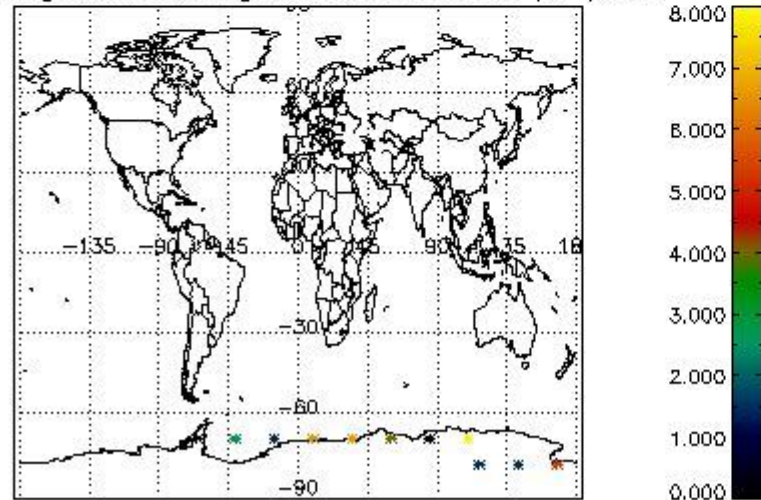
Percentage of cosmic ray hits per profile



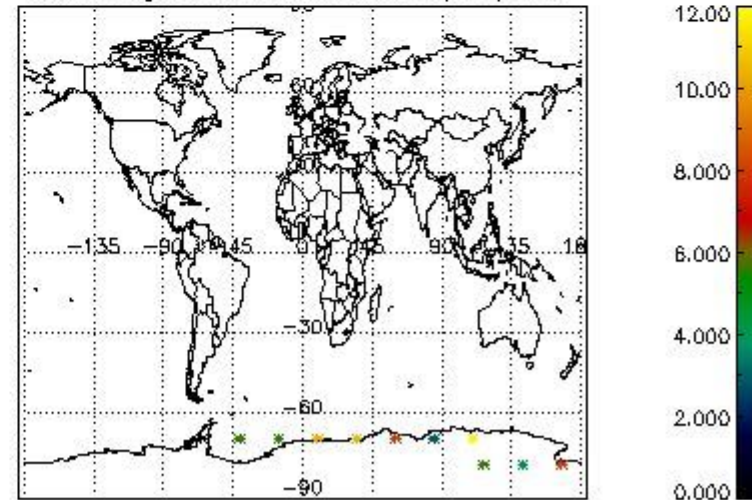
Percentage of datation errors per profile



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.

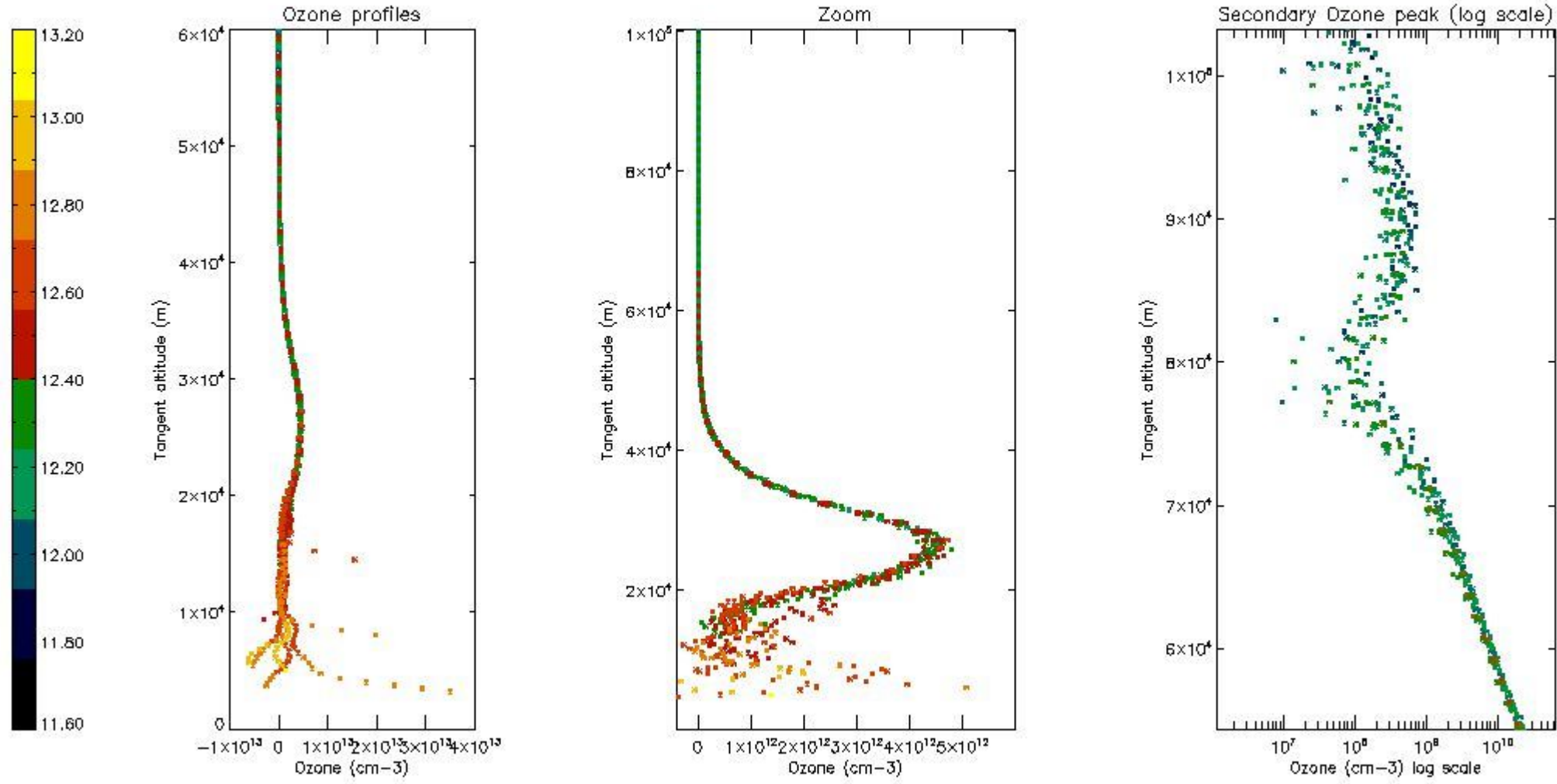
Criteria	% of total production
All STD	66
STD < 20	33



STD < 10	28
STD < 5	23

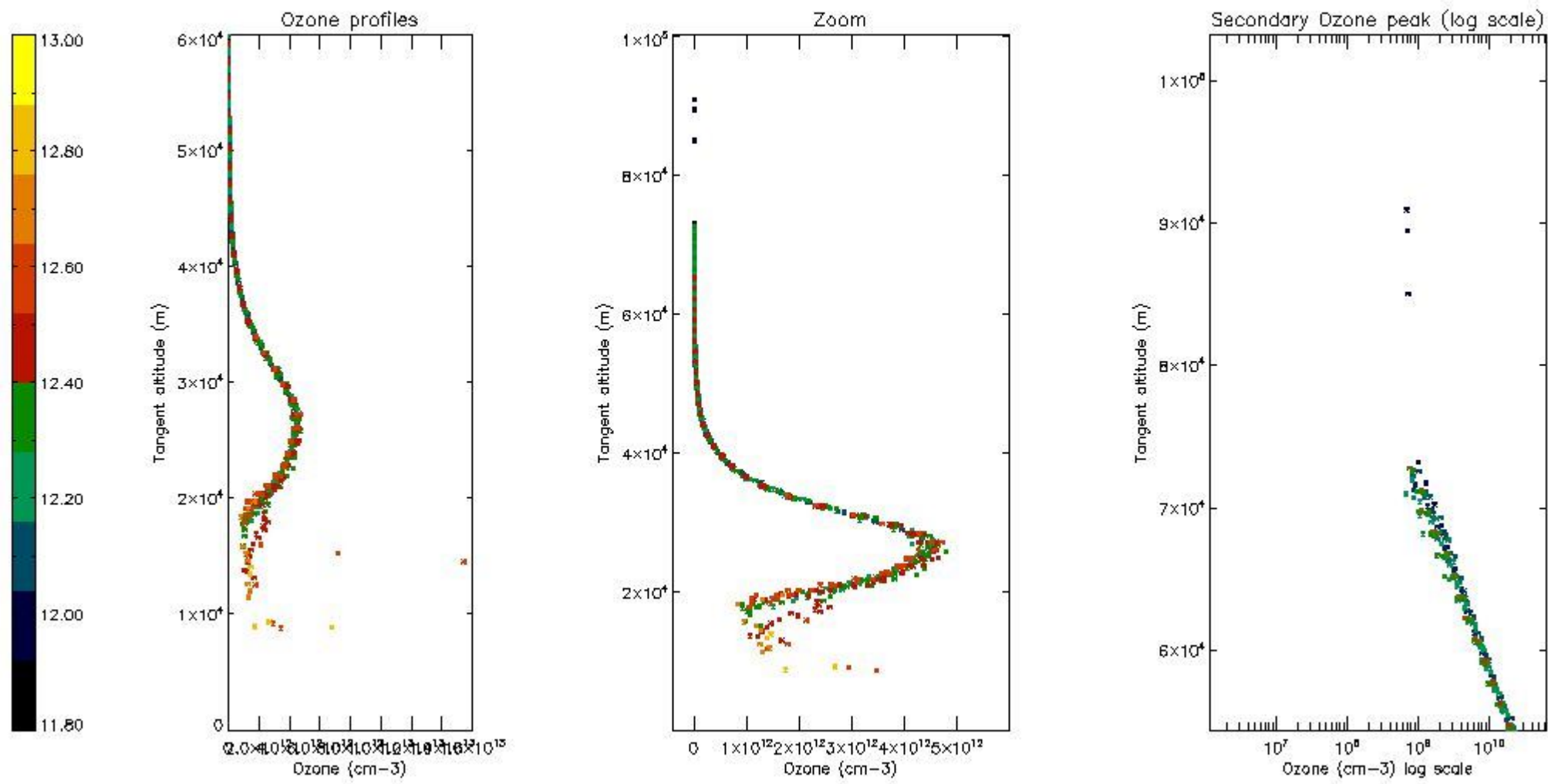
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



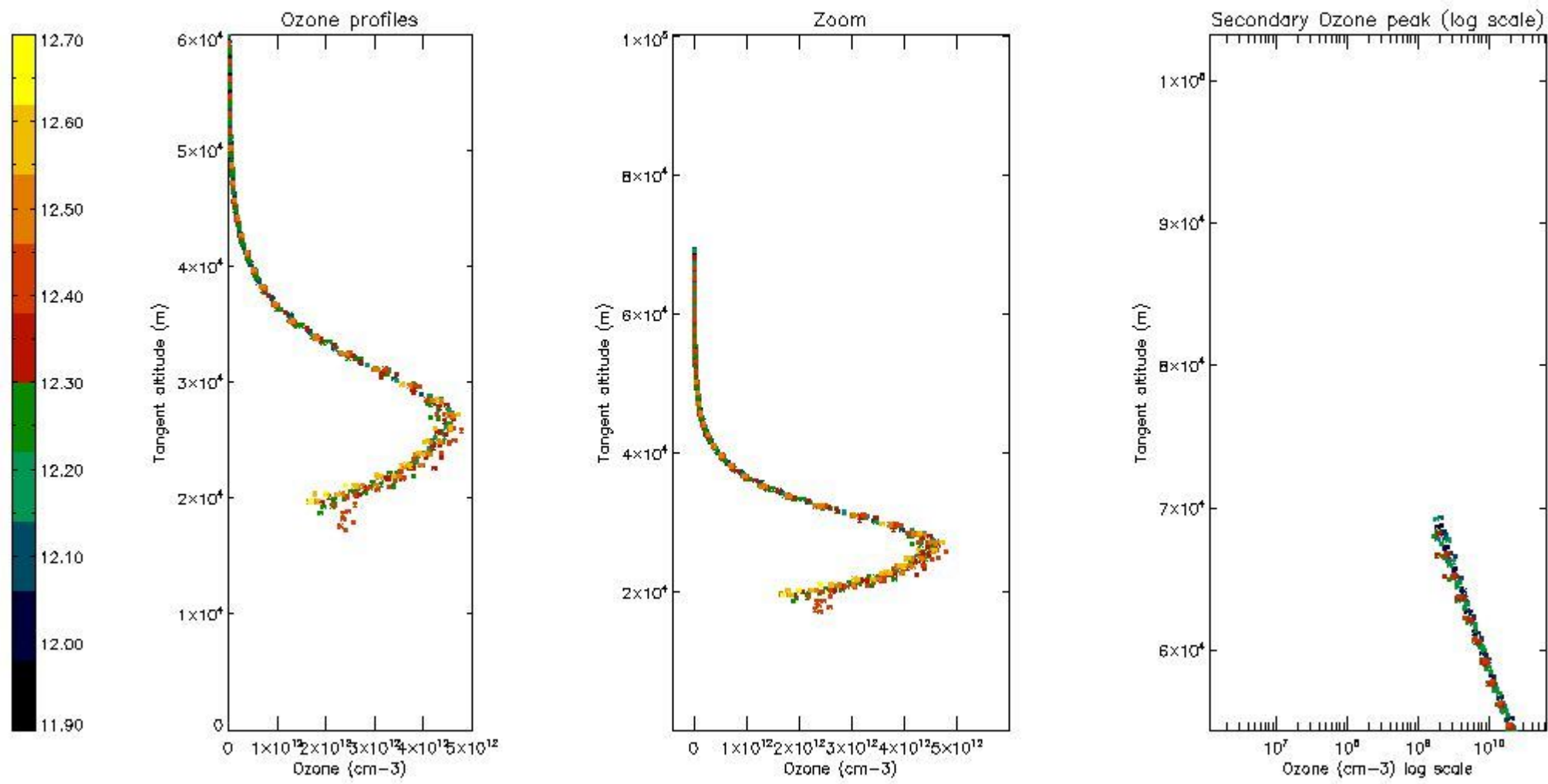
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



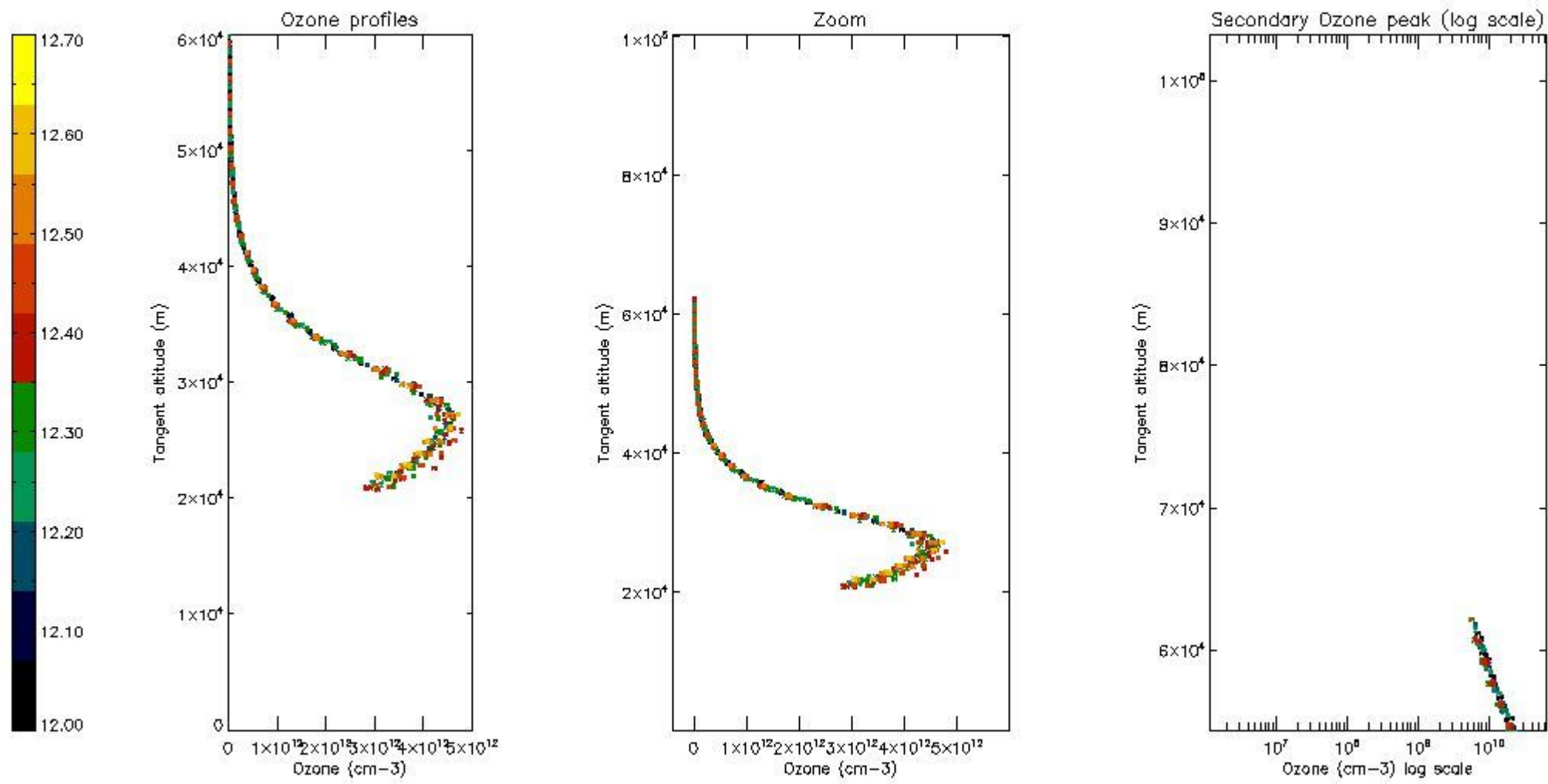
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



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

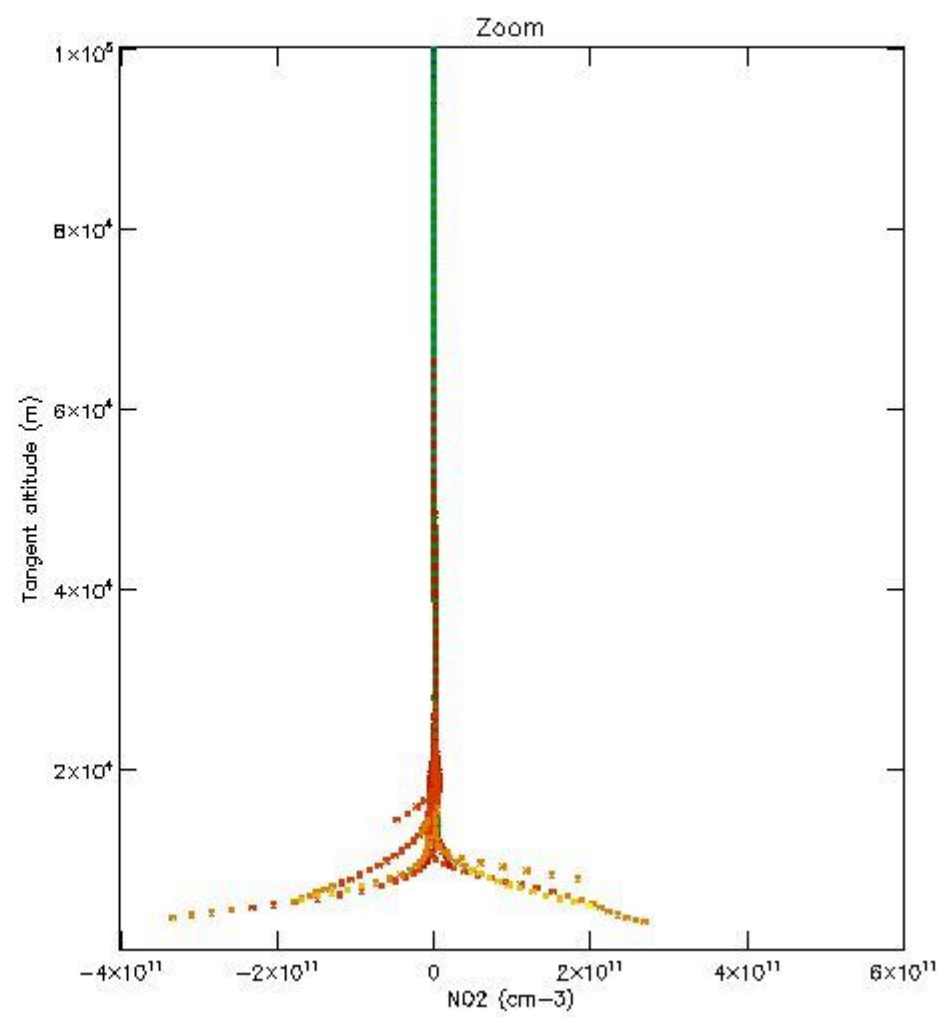
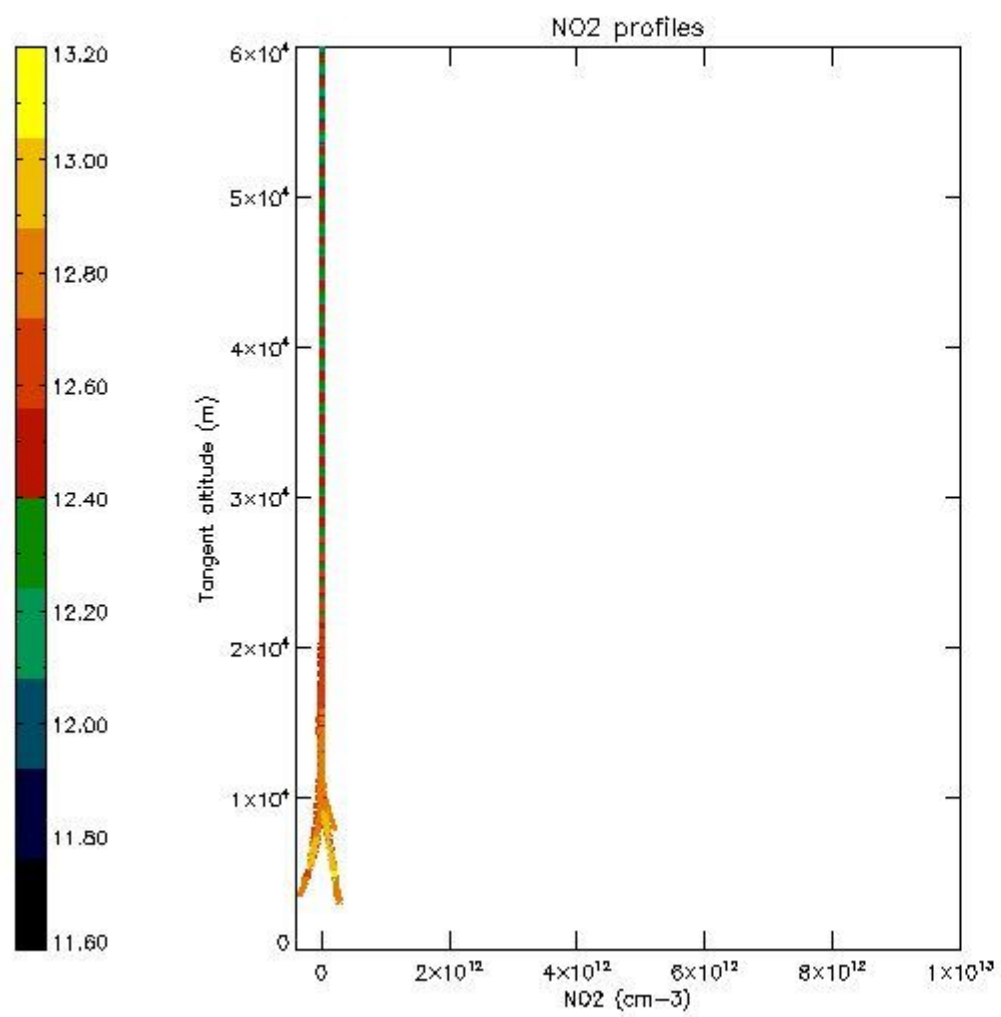
The colorbar represents the latitude.



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

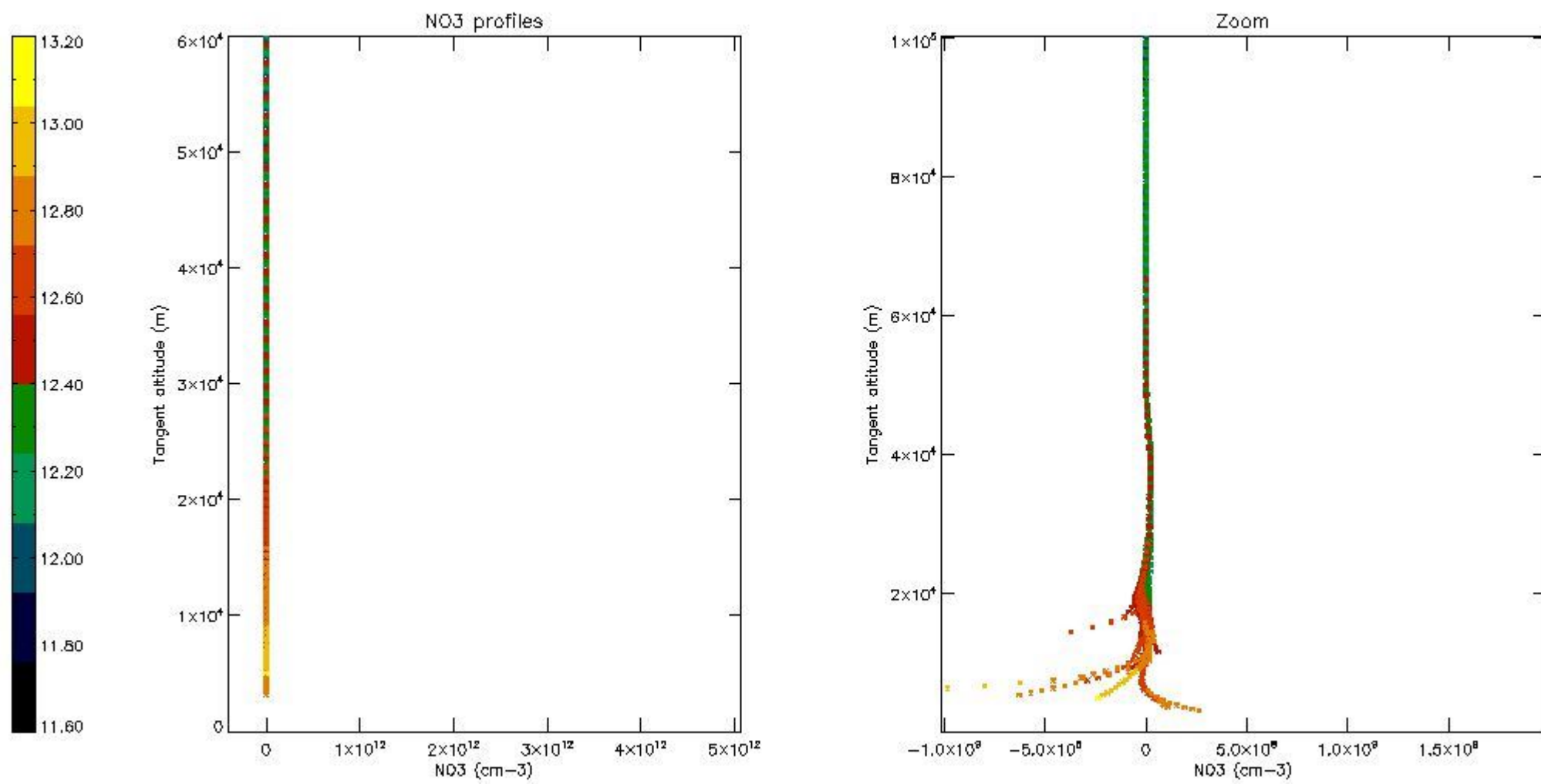
The colorbar represents the latitude.





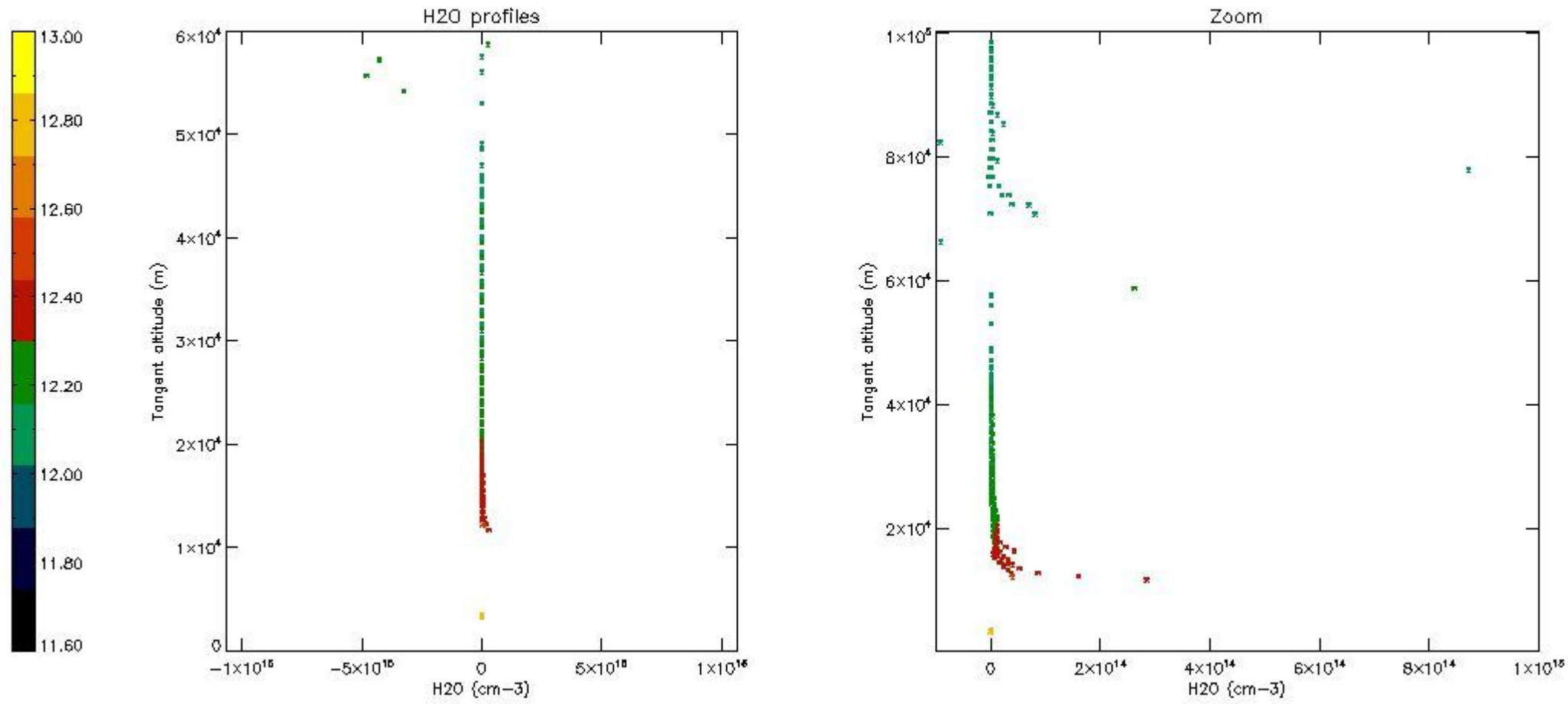
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	15-MAR-2012 00:14:11
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-MAR-2012 00:14:11
CROSS_SECTIONS_FILE	GOM_CR2_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-MAR-2012 00:14:11

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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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#### [5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

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Nb of prods with errors	0

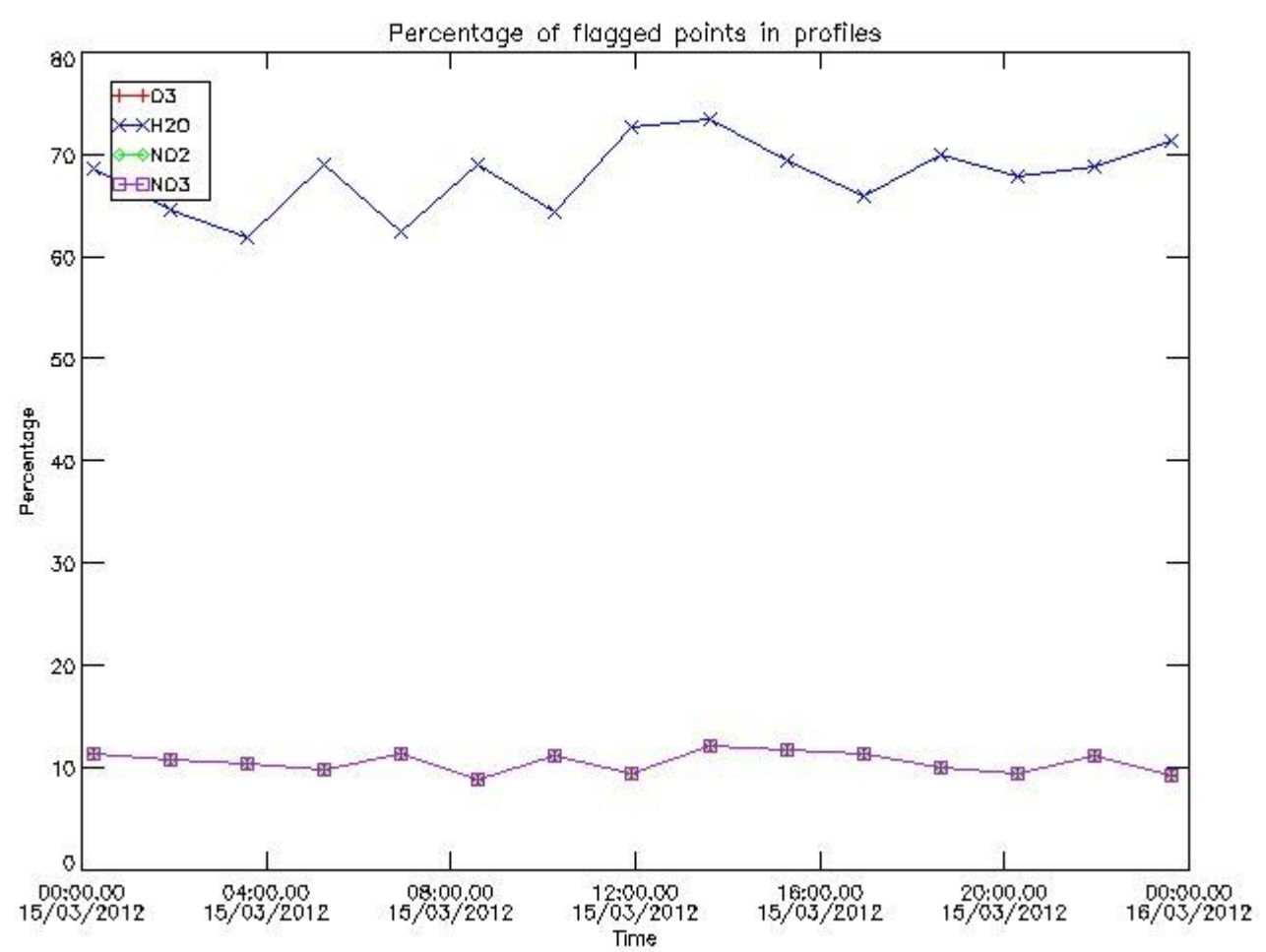
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2	GOM_NL__2PRFIN20120315_011442_000000383112_00347_52516_4955.N1	15-MAR-2012 01:14:42	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	52516	No
3	GOM_NL__2PRFIN20120315_015426_000000473112_00348_52517_4964.N1	15-MAR-2012 01:54:26	Dark	46.500	4	Alp1Cen	-0.010000	5800.0	93	52517	No
4	GOM_NL__2PRFIN20120315_025456_000000353112_00348_52517_4965.N1	15-MAR-2012 02:54:56	Bright	35.000	19	50Alp Cyg	1.2460	10500.	70	52517	No
5	GOM_NL__2PRFIN20120315_033440_000000493112_00349_52518_4981.N1	15-MAR-2012 03:34:40	Dark	48.500	4	Alp1Cen	-0.010000	5800.0	97	52518	No
6	GOM_NL__2PRFIN20120315_043510_000000383112_00349_52518_4982.N1	15-MAR-2012 04:35:10	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	52518	No
7	GOM_NL__2PRFIN20120315_051455_000000573112_00350_52519_5006.N1	15-MAR-2012 05:14:55	Dark	56.500	4	Alp1Cen	-0.010000	5800.0	113	52519	No
8	GOM_NL__2PRFIN20120315_061524_000000383112_00350_52519_5007.N1	15-MAR-2012 06:15:24	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	52519	No
9	GOM_NL__2PRFIN20120315_065509_000000443112_00351_52520_5023.N1	15-MAR-2012 06:55:09	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	52520	No
10	GOM_NL__2PRFIN20120315_075539_000000393112_00351_52520_5024.N1	15-MAR-2012 07:55:39	Bright	38.500	19	50Alp Cyg	1.2460	10500.	77	52520	No
11	GOM_NL__2PRFIN20120315_083524_000000573112_00352_52521_5047.N1	15-MAR-2012 08:35:24	Dark	56.500	4	Alp1Cen	-0.010000	5800.0	113	52521	No
12	GOM_NL__2PRFIN20120315_093553_000000363112_00352_52521_5048.N1	15-MAR-2012 09:35:53	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	52521	No
13	GOM_NL__2PRFIN20120315_101538_000000453112_00353_52522_5093.N1	15-MAR-2012 10:15:38	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	52522	No
14	GOM_NL__2PRFIN20120315_111606_000000363112_00353_52522_5094.N1	15-MAR-2012 11:16:06	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	52522	No
15	GOM_NL__2PRFIN20120315_115553_000000533112_00354_52523_5128.N1	15-MAR-2012 11:55:53	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	52523	No
16	GOM_NL__2PRFIN20120315_125620_000000343112_00354_52523_5129.N1	15-MAR-2012 12:56:20	Bright	34.000	19	50Alp Cyg	1.2460	10500.	68	52523	No
17	GOM_NL__2PRFIN20120315_133607_000000423112_00355_52524_5216.N1	15-MAR-2012 13:36:07	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	52524	No
18	GOM_NL__2PRFIN20120315_151622_000000433112_00356_52525_5253.N1	15-MAR-2012 15:16:22	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	52525	No
19	GOM_NL__2PRFIN20120315_165636_000000443112_00357_52526_5285.N1	15-MAR-2012 16:56:36	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	52526	No
20	GOM_NL__2PRFIN20120315_183651_000000503112_00358_52527_5313.N1	15-MAR-2012 18:36:51	Dark	50.000	4	Alp1Cen	-0.010000	5800.0	100	52527	No
21	GOM_NL__2PRFIN20120315_194035_000000383112_00358_52527_5314.N1	15-MAR-2012 19:40:35	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	52527	No
22	GOM_NL__2PRFIN20120315_201705_000000533112_00359_52528_5342.N1	15-MAR-2012 20:17:05	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	52528	No
23	GOM_NL__2PRFIN20120315_212049_000000353112_00359_52528_5343.N1	15-MAR-2012 21:20:49	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	52528	No
24	GOM_NL__2PRFIN20120315_215720_000000463112_00360_52529_5375.N1	15-MAR-2012 21:57:20	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	52529	No
25	GOM_NL__2PRFIN20120315_230103_000000363112_00360_52529_5376.N1	15-MAR-2012 23:01:03	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	52529	No
26	GOM_NL__2PRFIN20120315_233734_000000553112_00361_52530_5385.N1	15-MAR-2012 23:37:34	Dark	54.500	4	Alp1Cen	-0.010000	5800.0	109	52530	No

## 3. Quality information per product

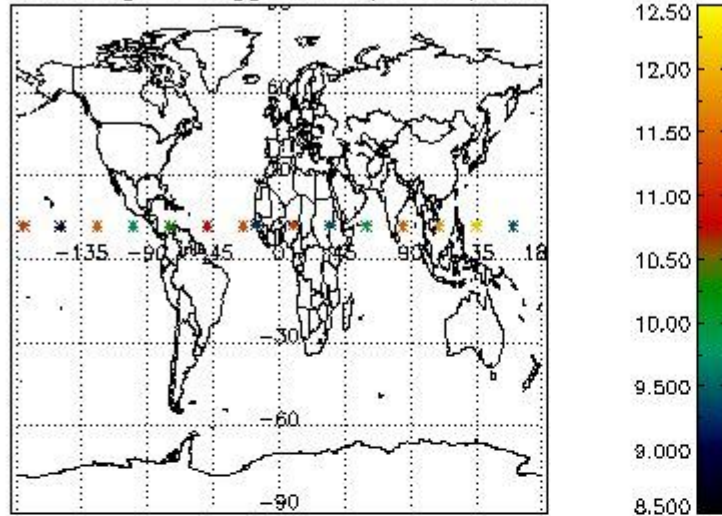
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

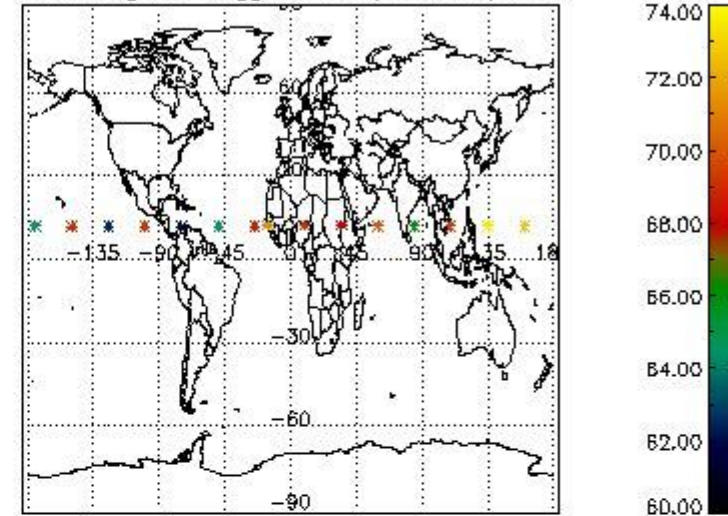


3.2 Plot quality information per product (world map)

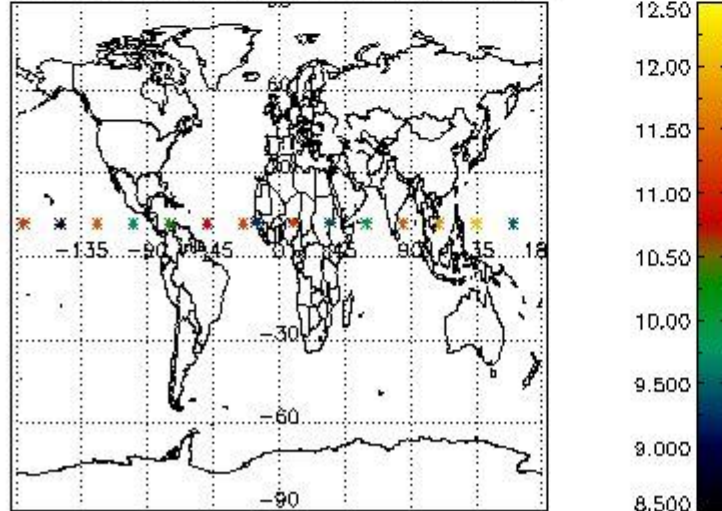
Percentage of flagged data per O3 profile



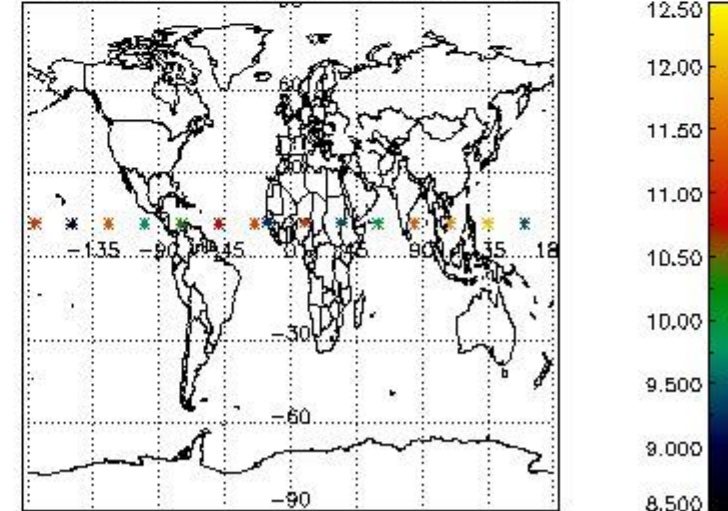
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

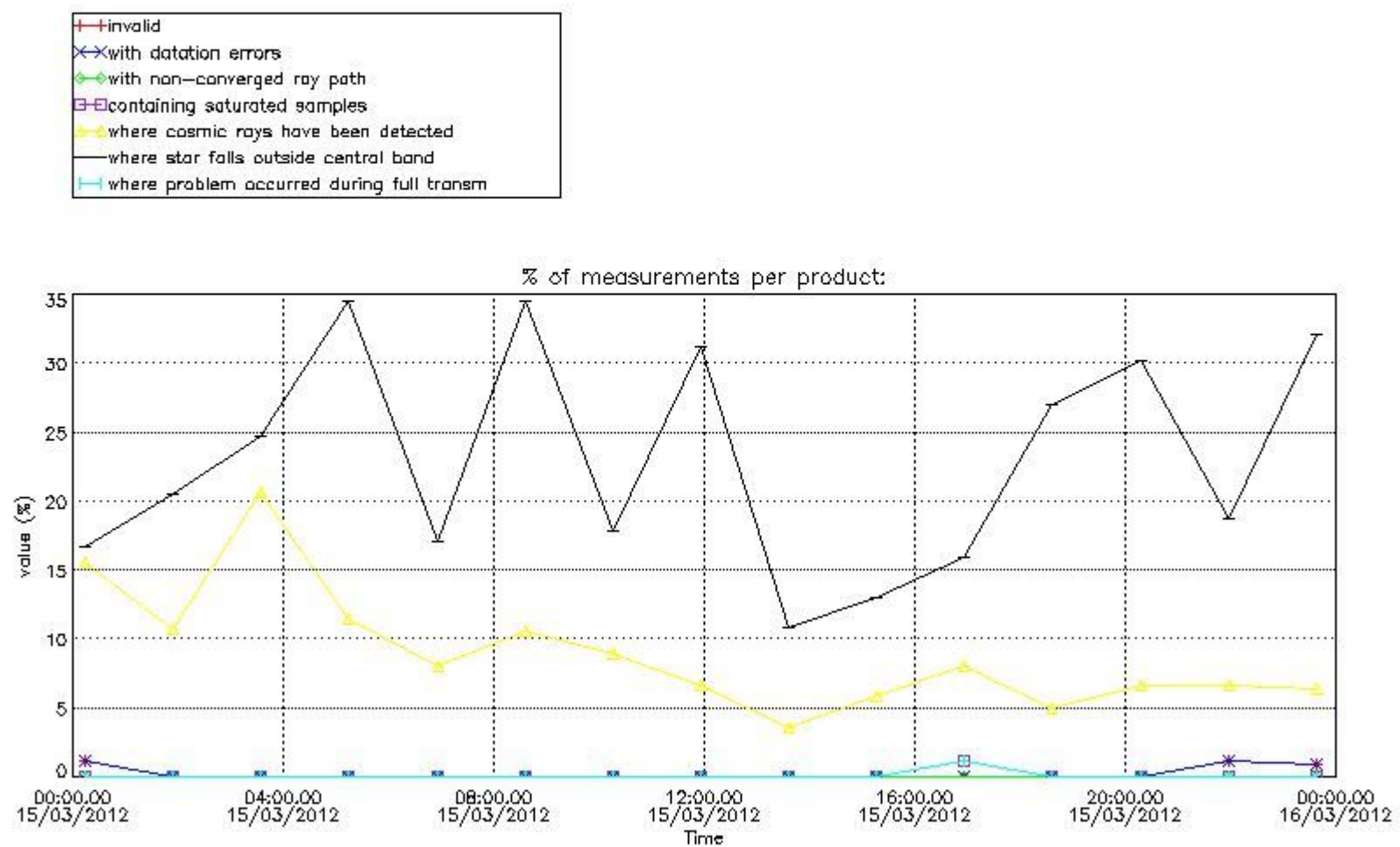


#### 4. Level 1 quality information per product

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.

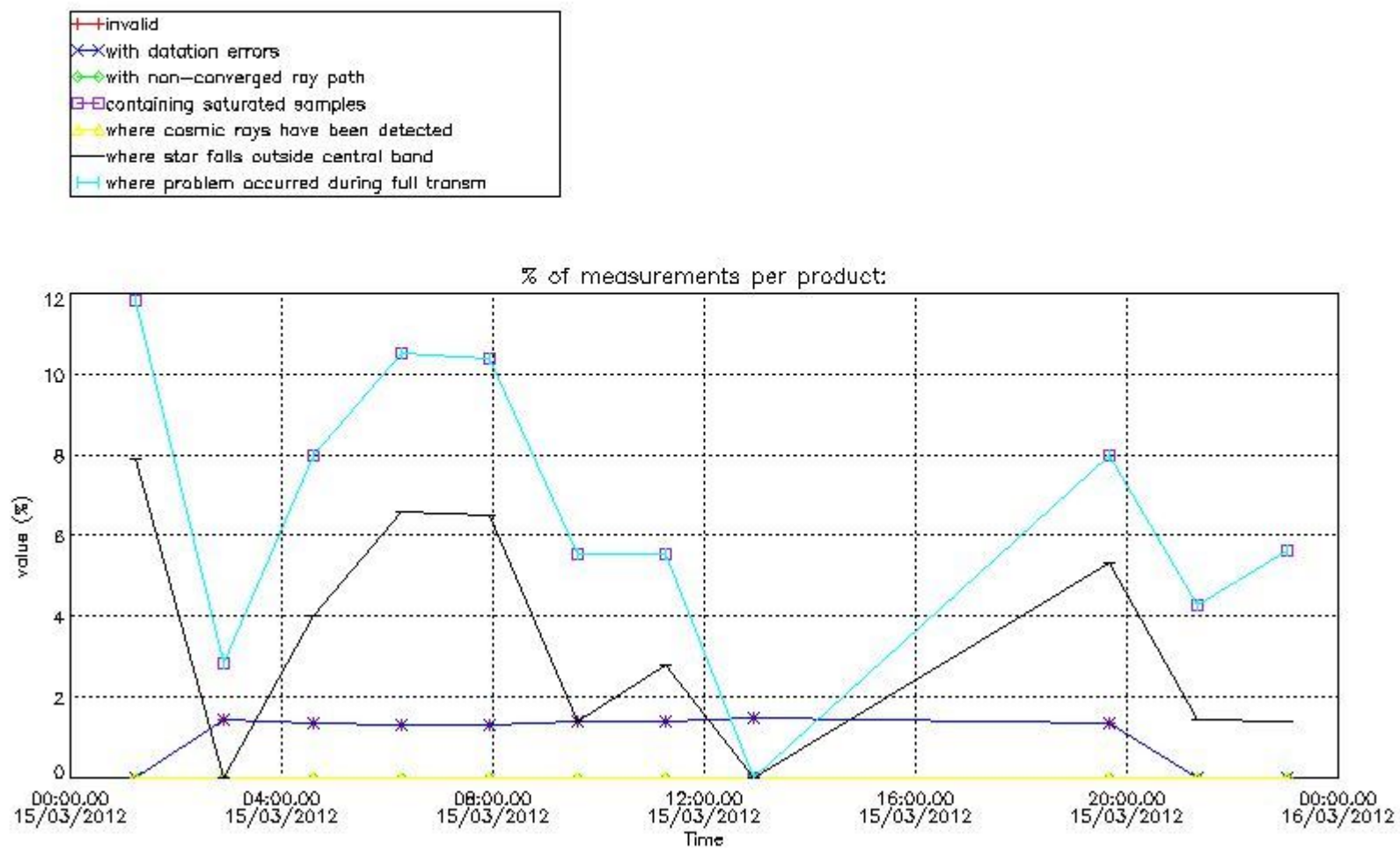
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

###### 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

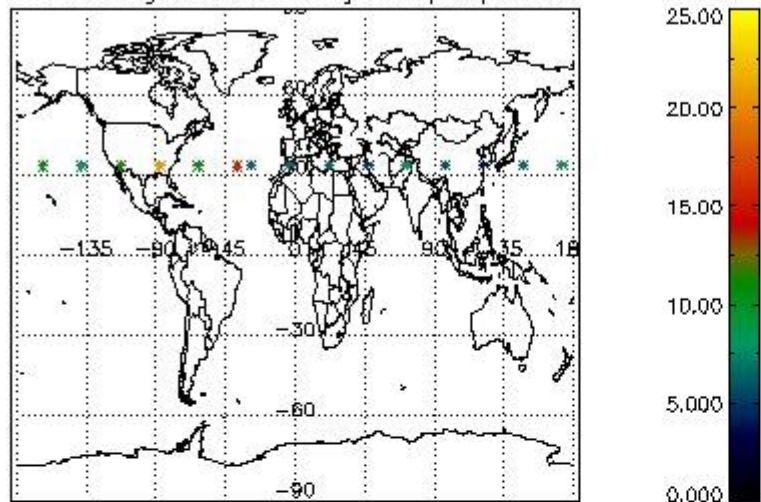




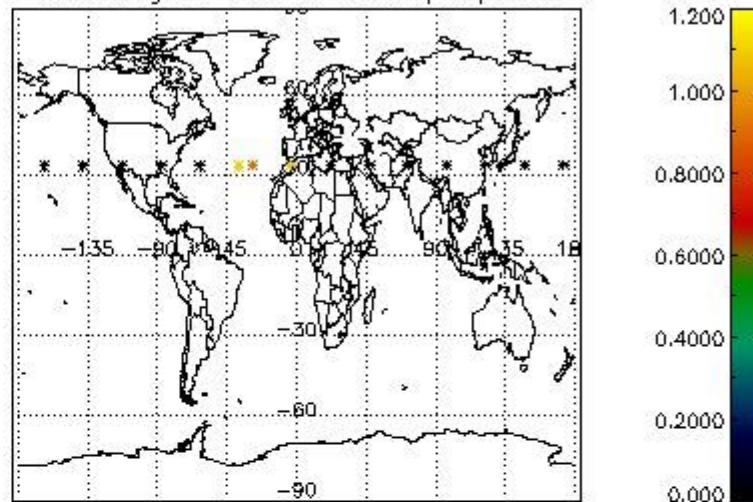
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

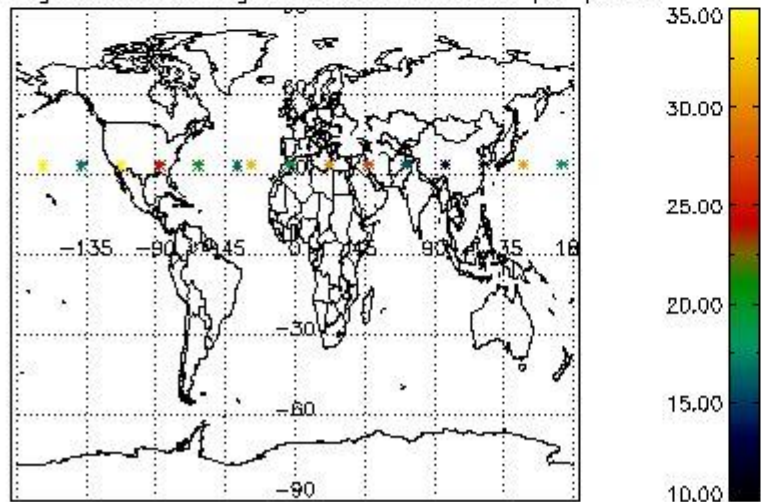
Percentage of cosmic ray hits per profile



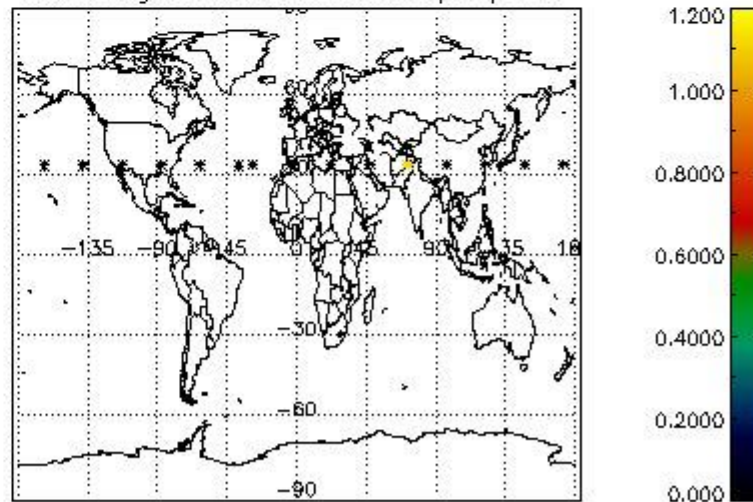
Percentage of datation errors per profile



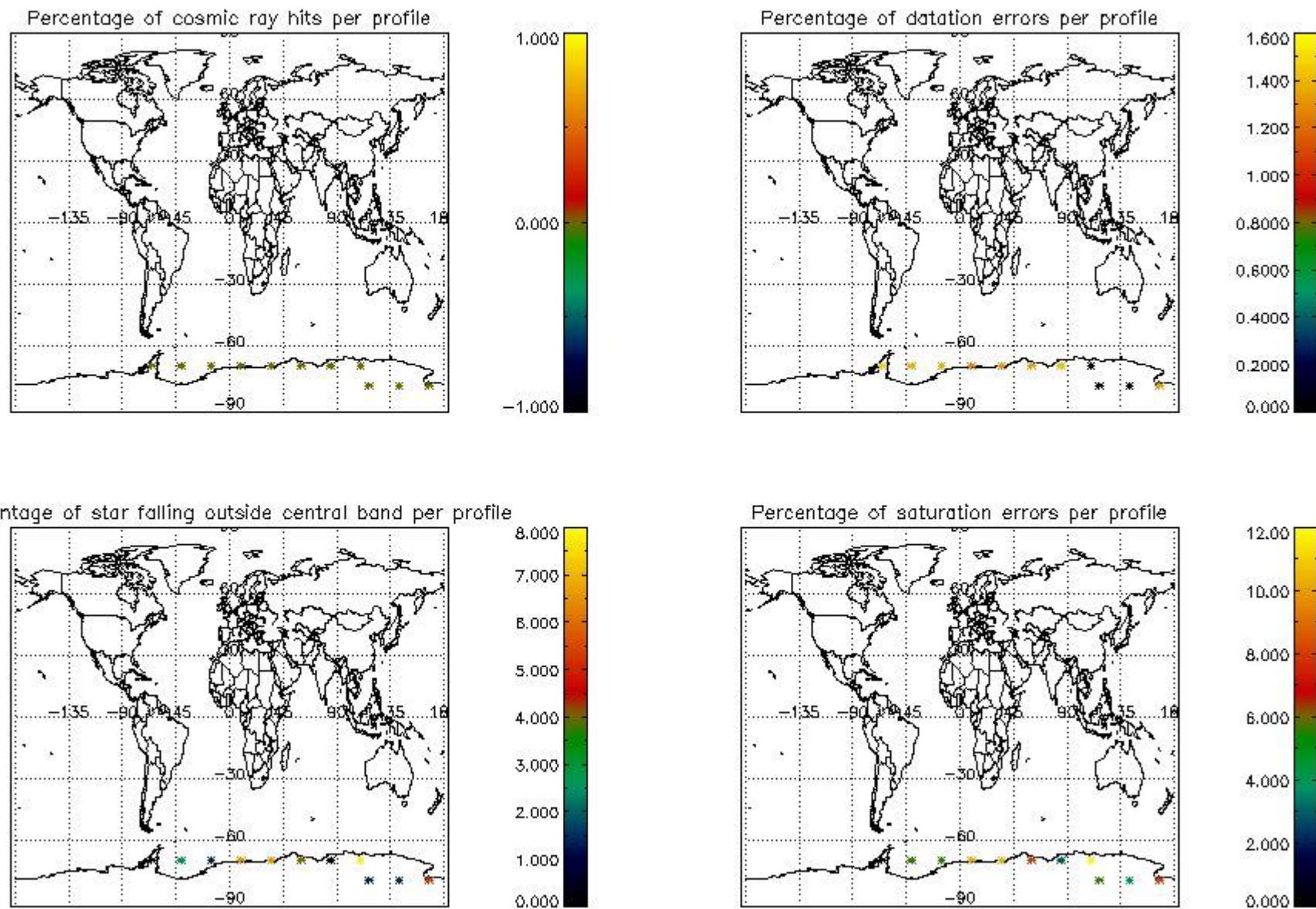
Percentage of star falling outside central band per profile



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.

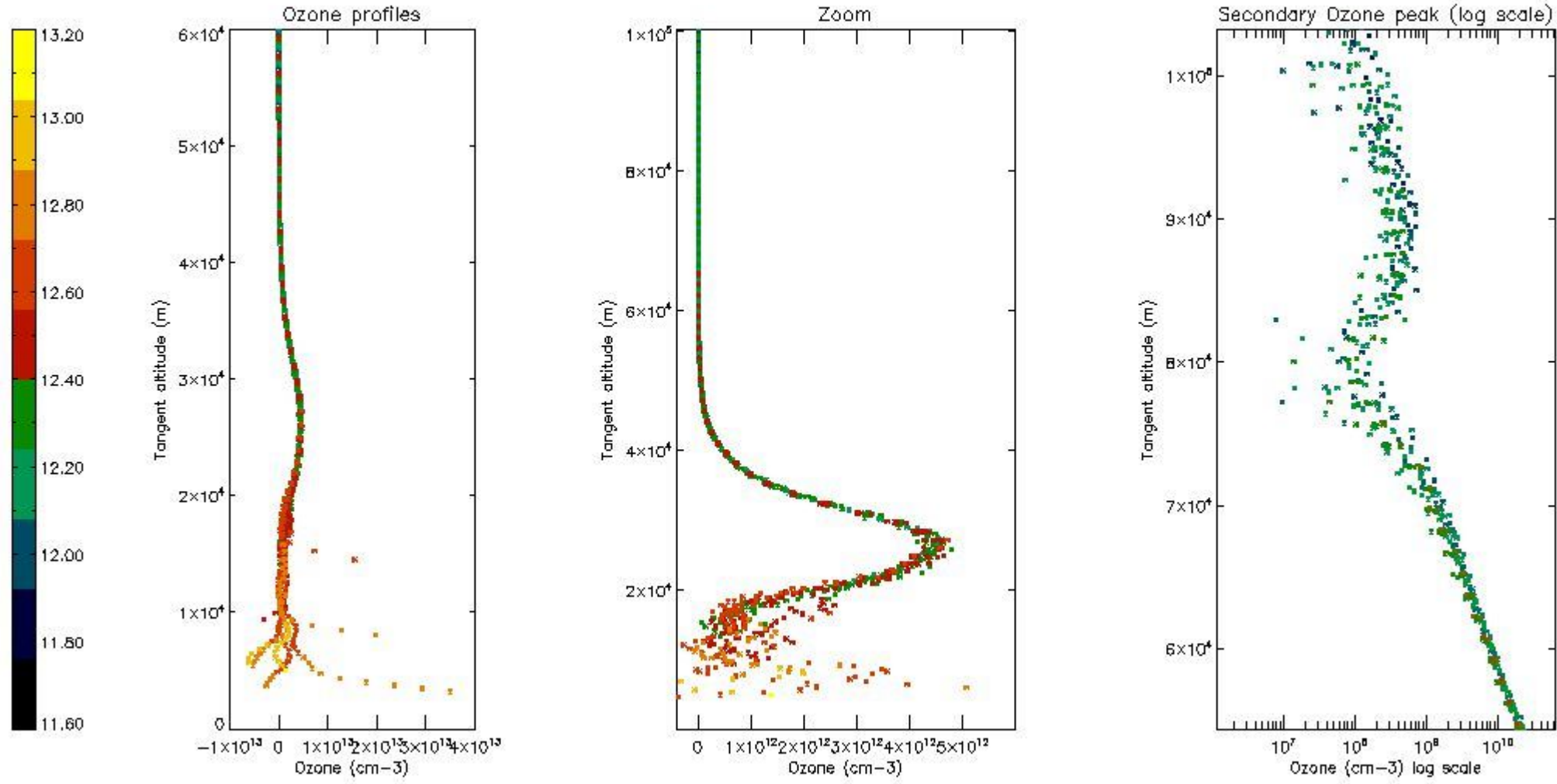
Criteria	% of total production
All STD	66
STD < 20	33



STD < 10	28
STD < 5	23

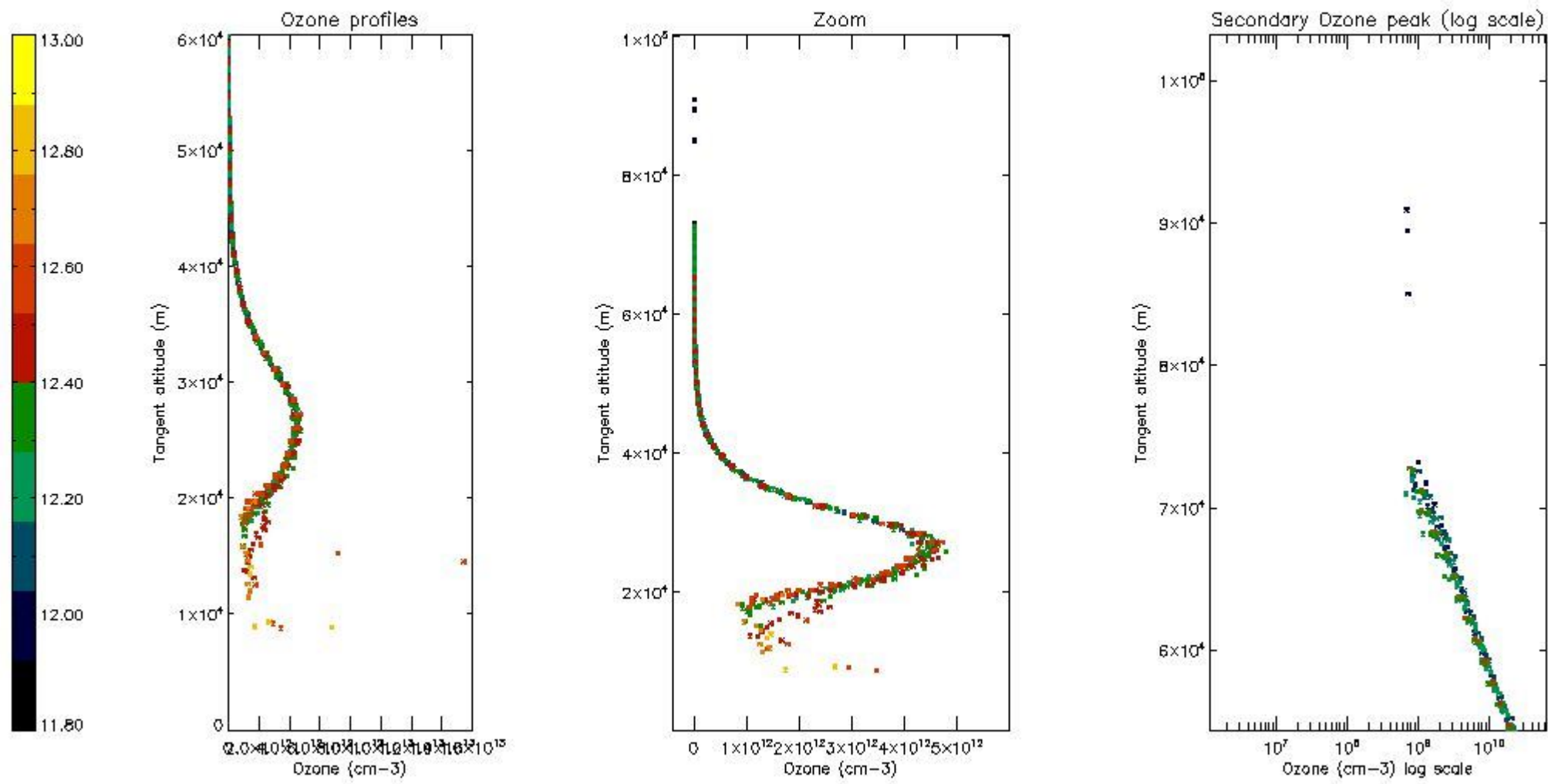
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

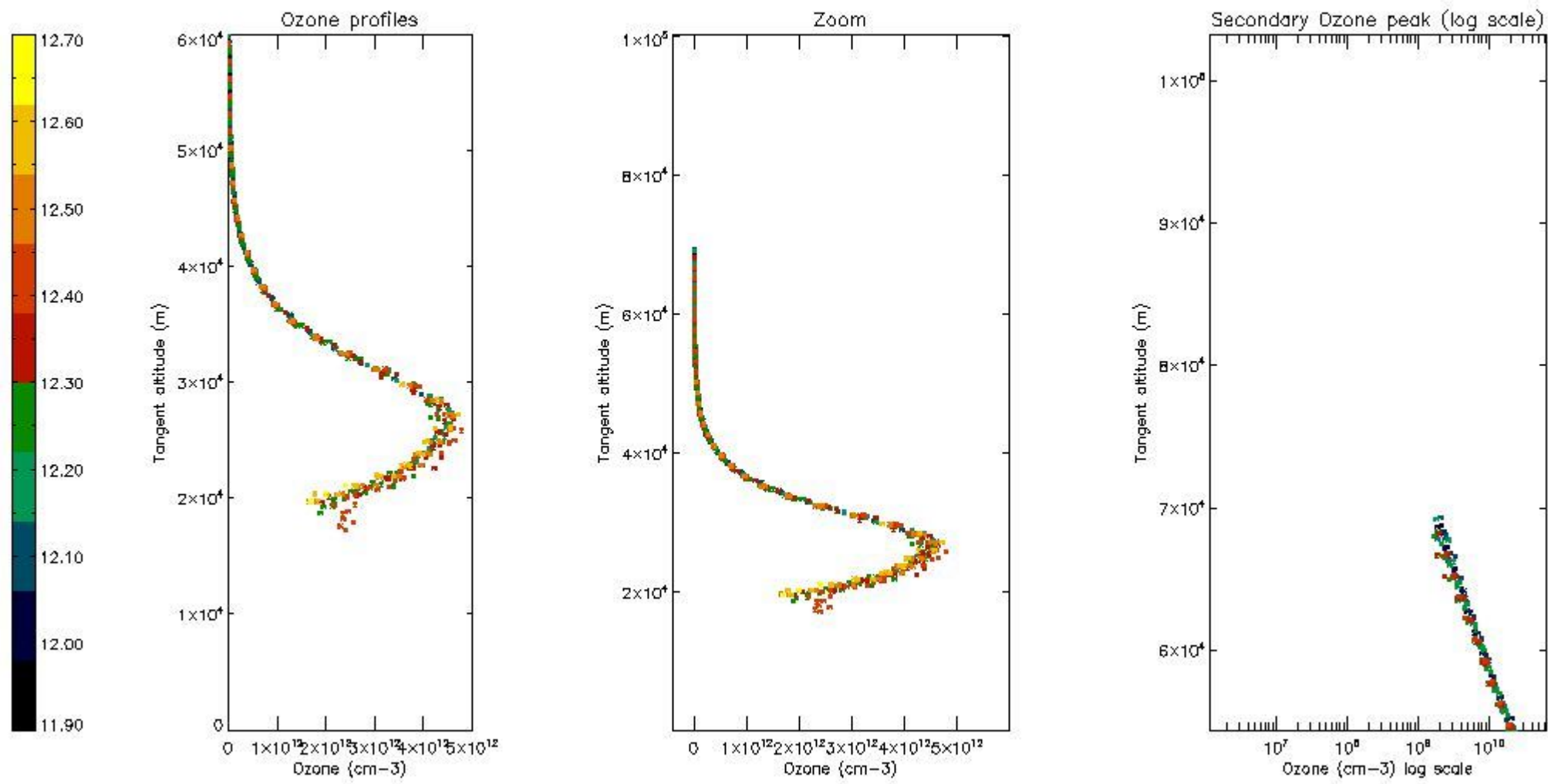
The colorbar represents the latitude.



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

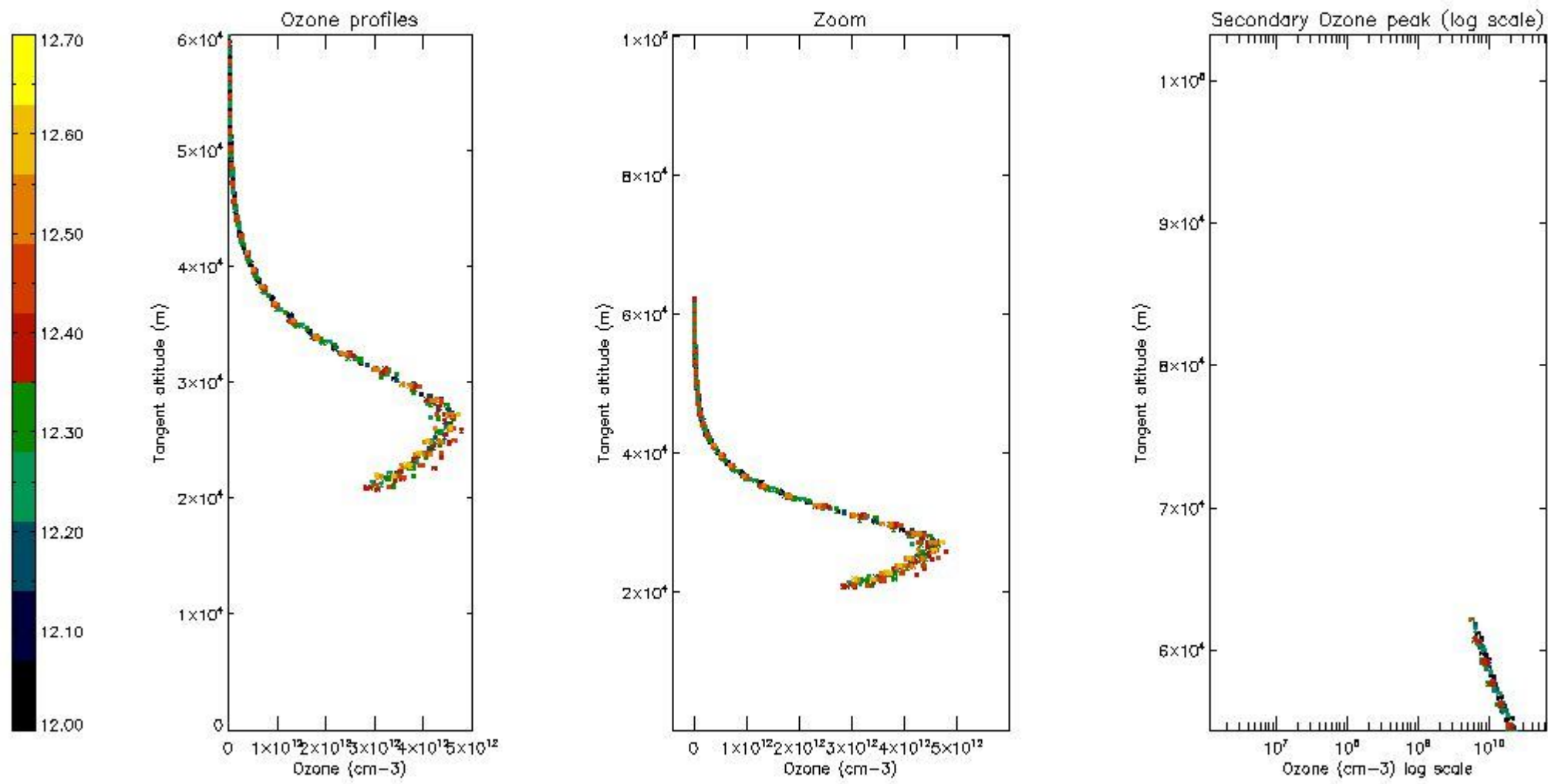
The colorbar represents the latitude.





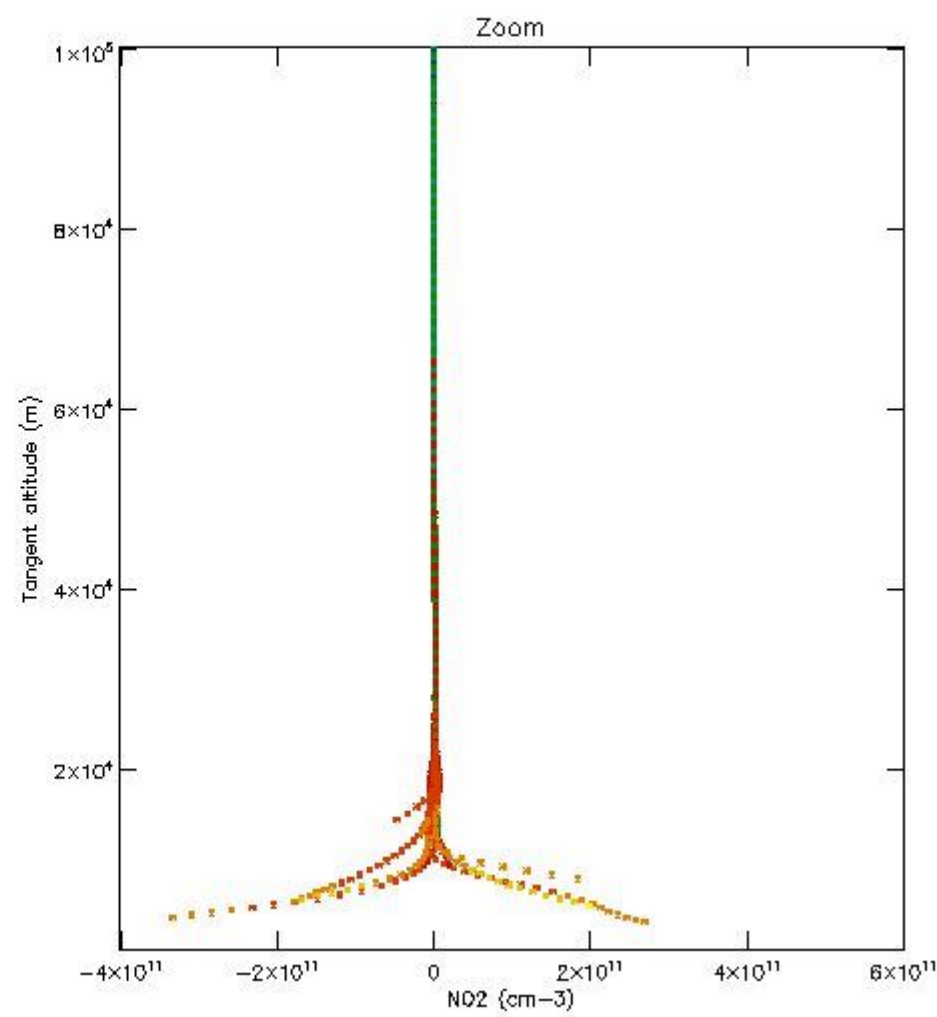
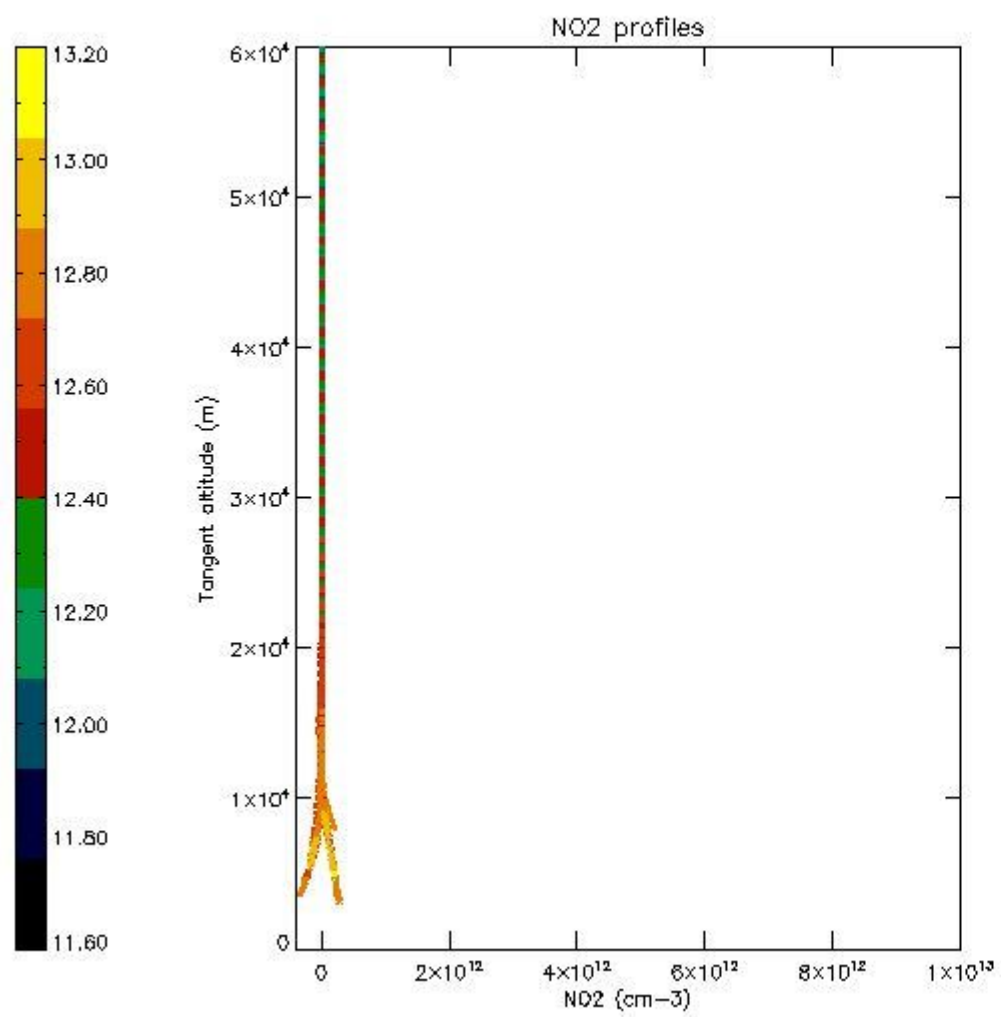
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



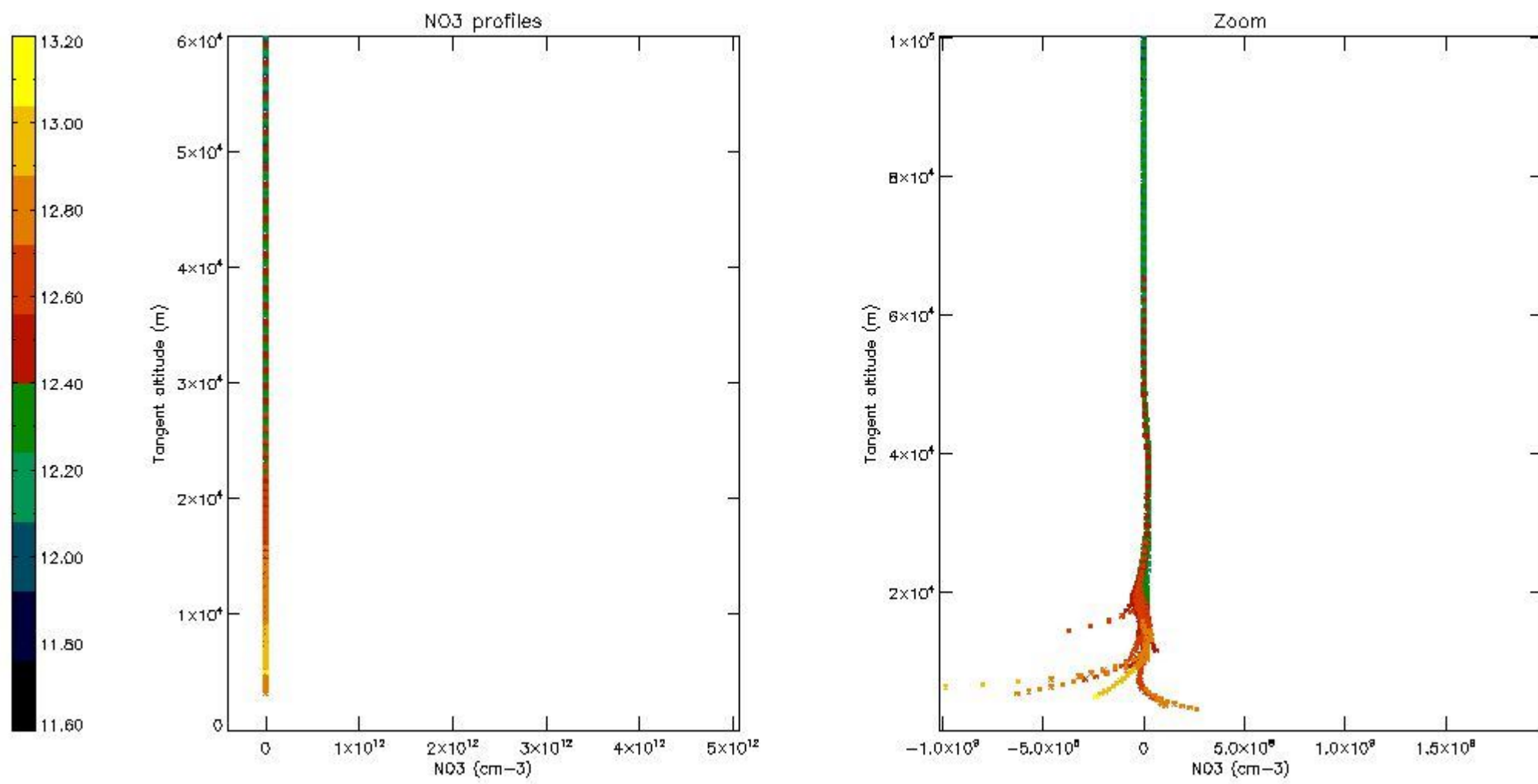
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



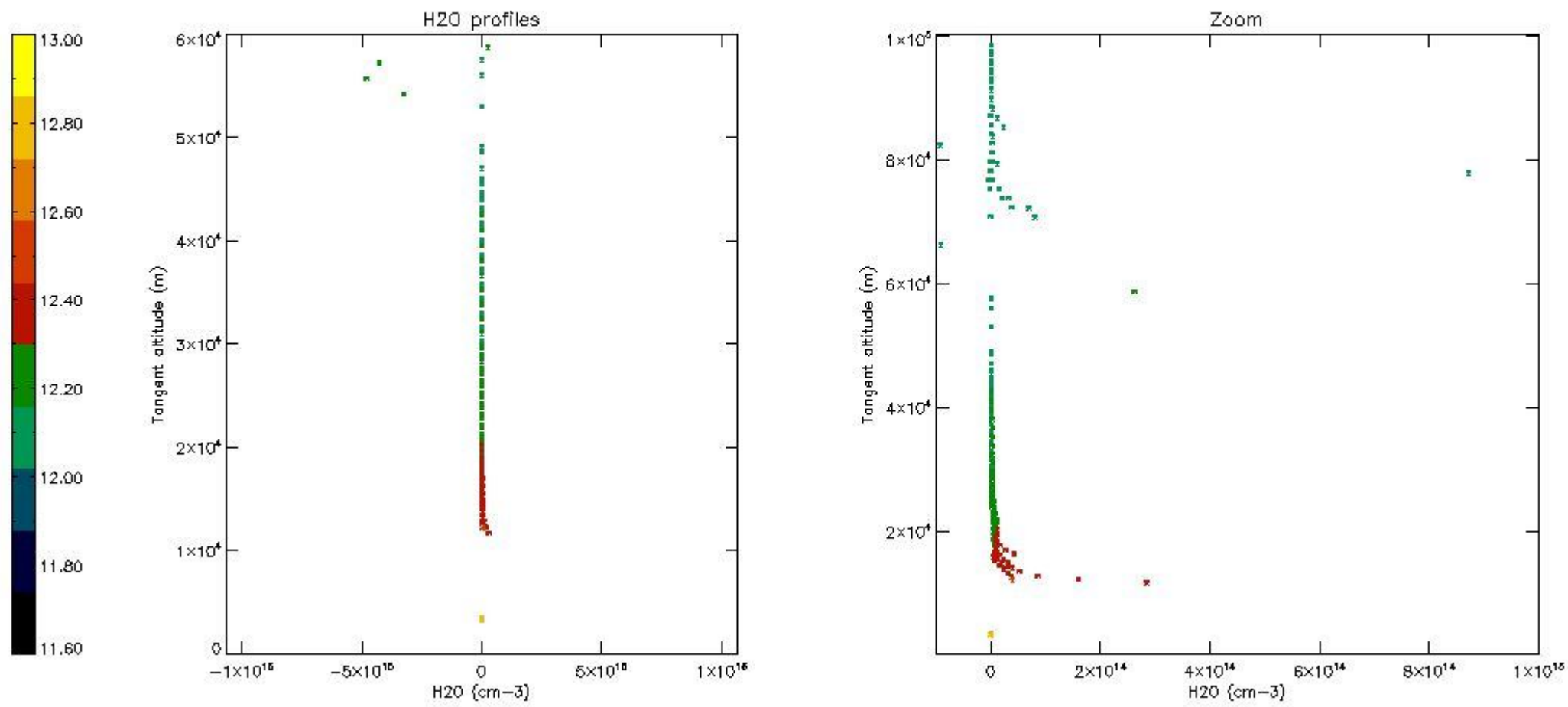
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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.

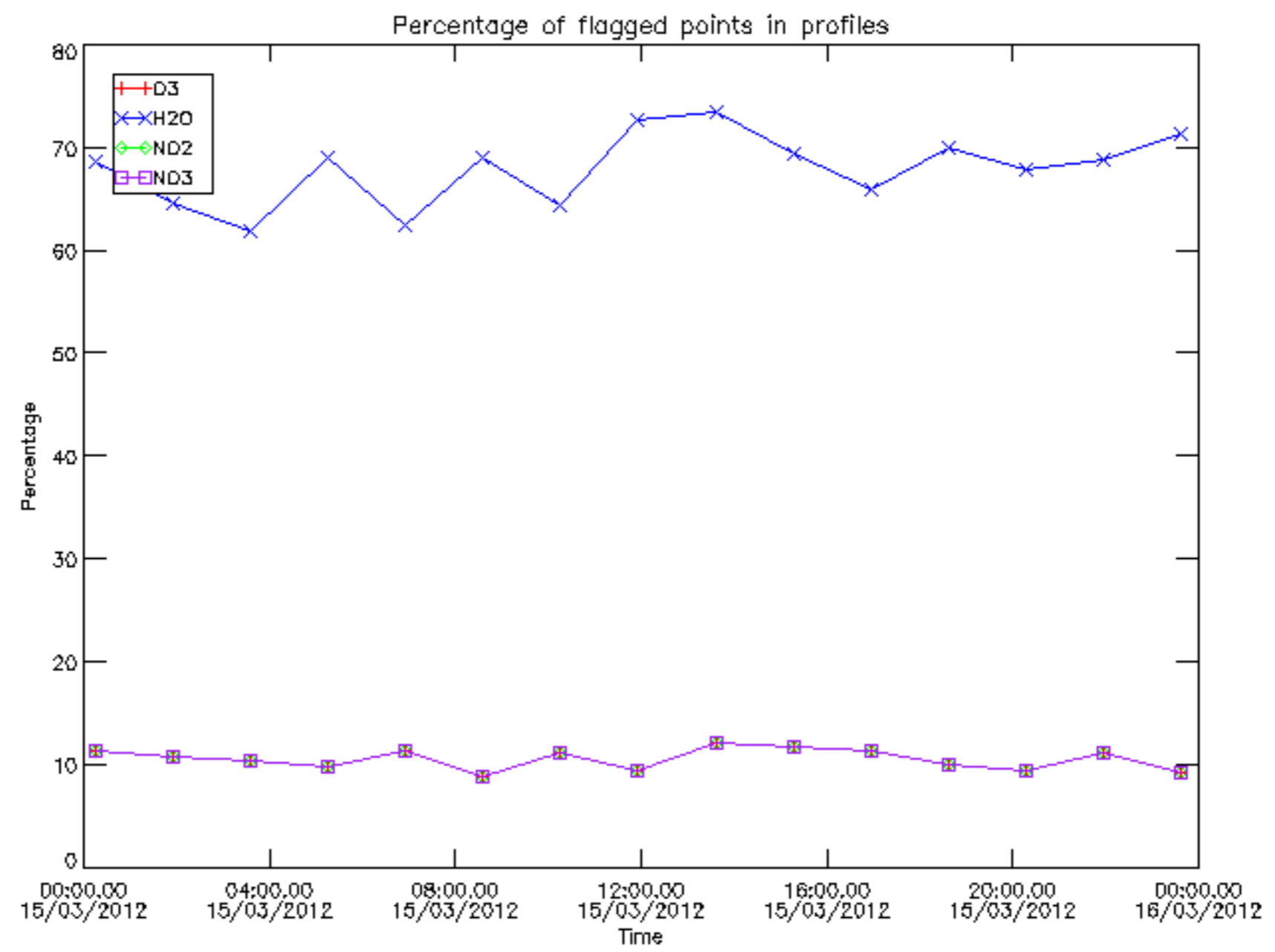


## 6. Auxiliary Data Files used for the production reported in section 2

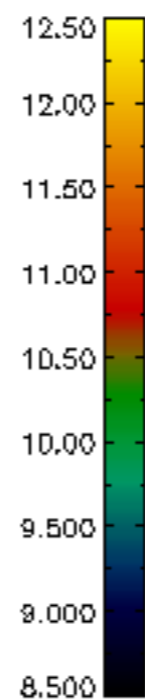
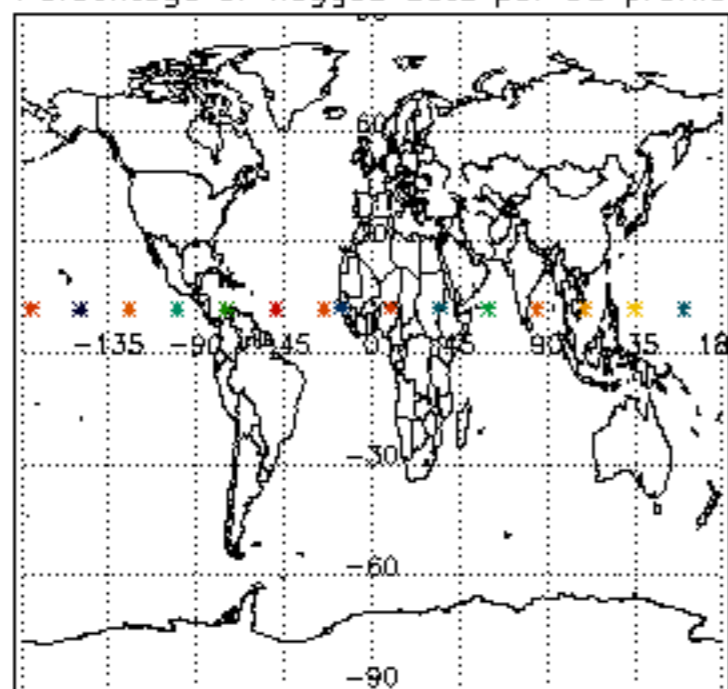
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	15-MAR-2012 00:14:11
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-MAR-2012 00:14:11
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-MAR-2012 00:14:11

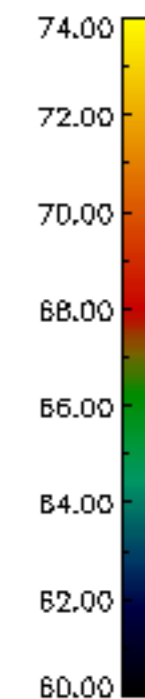
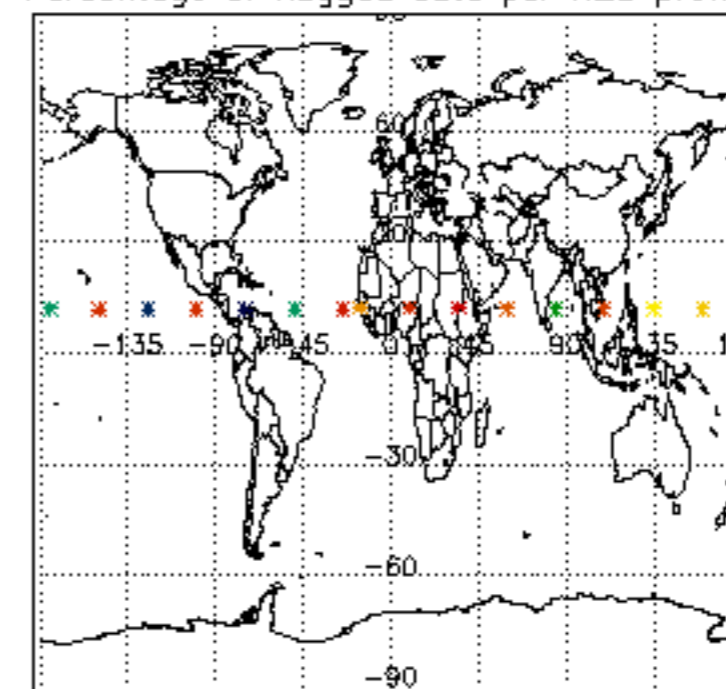




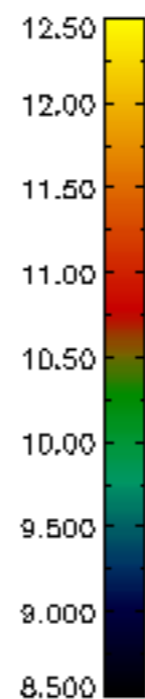
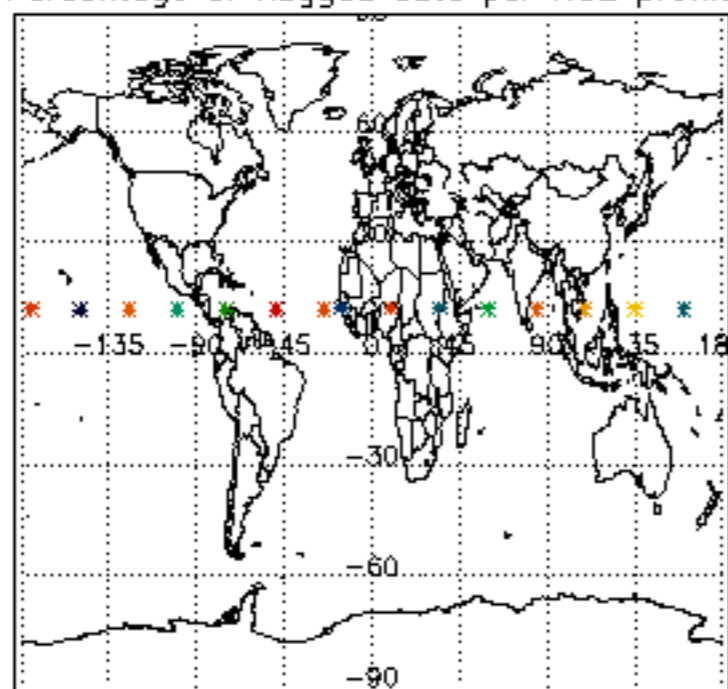
Percentage of flagged data per D3 profile



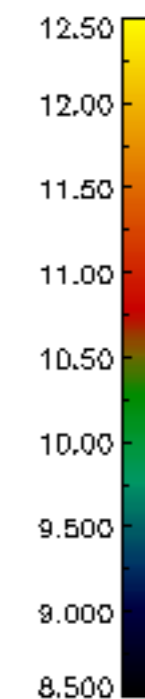
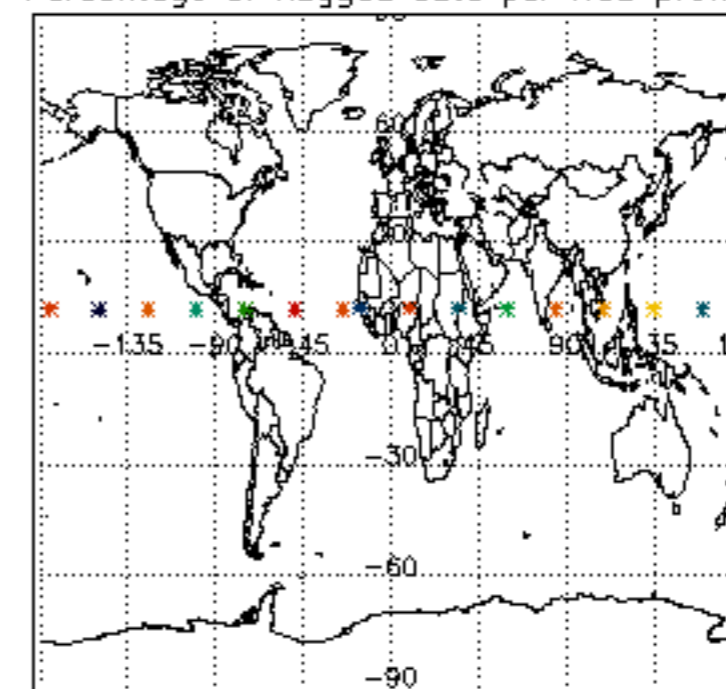
Percentage of flagged data per H2O profile

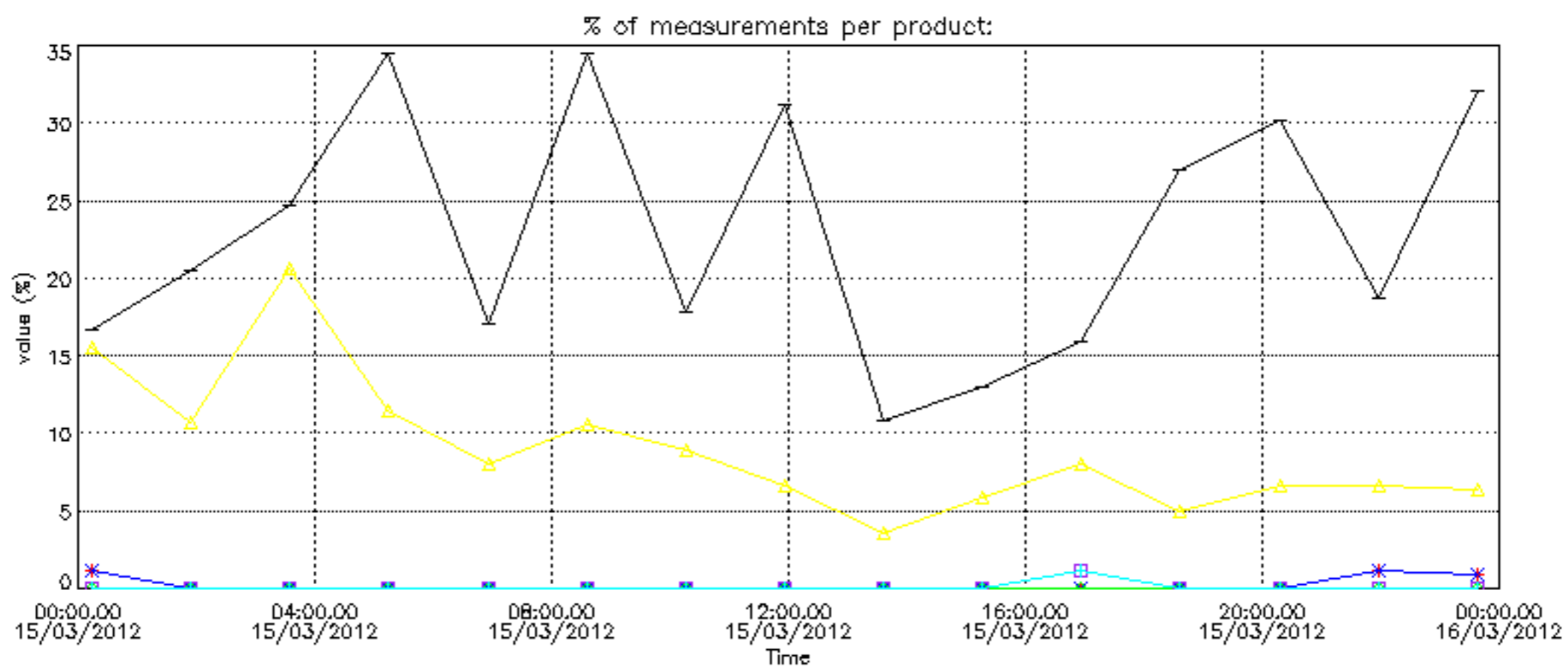


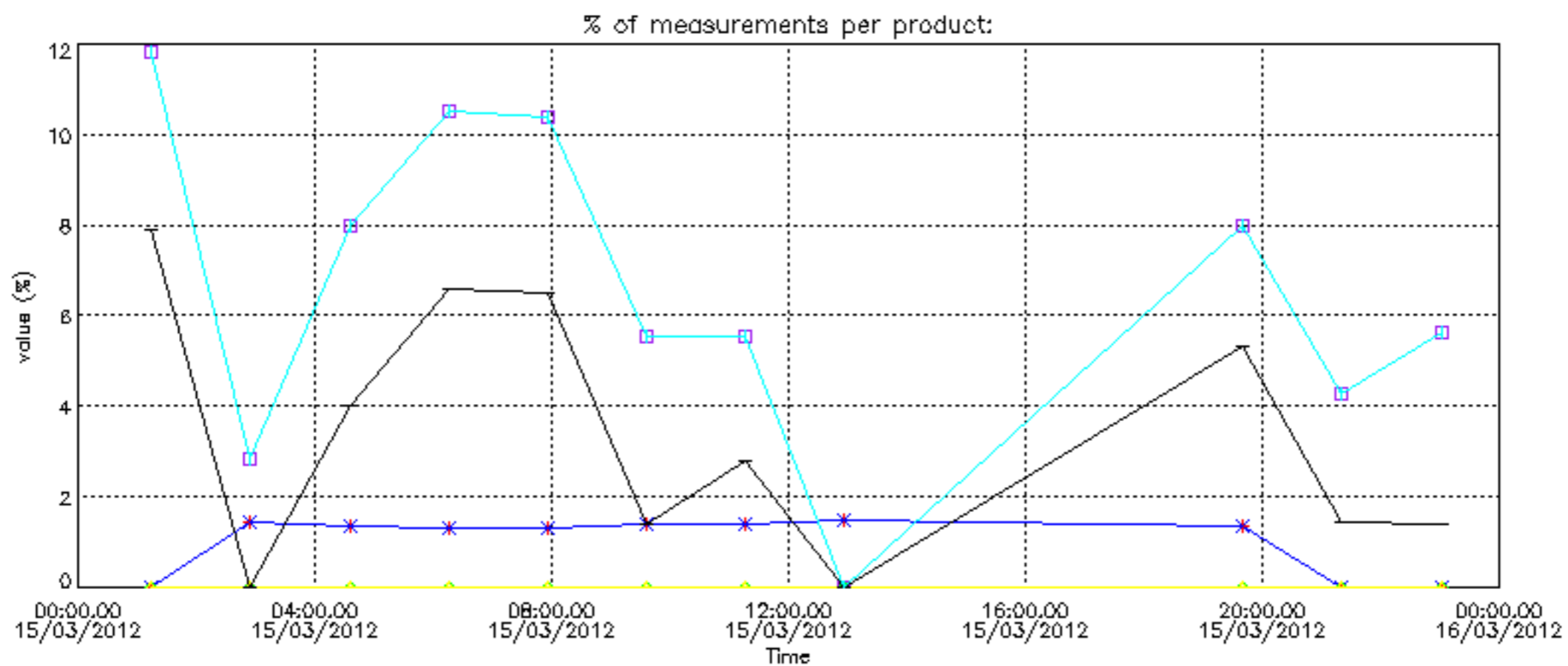
Percentage of flagged data per NO2 profile



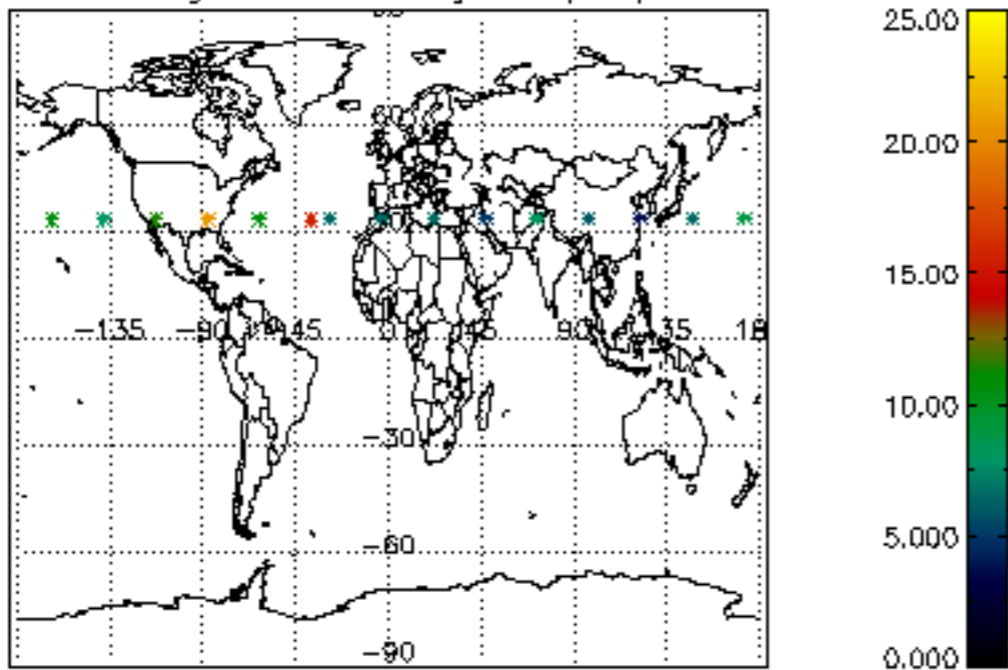
Percentage of flagged data per NO3 profile



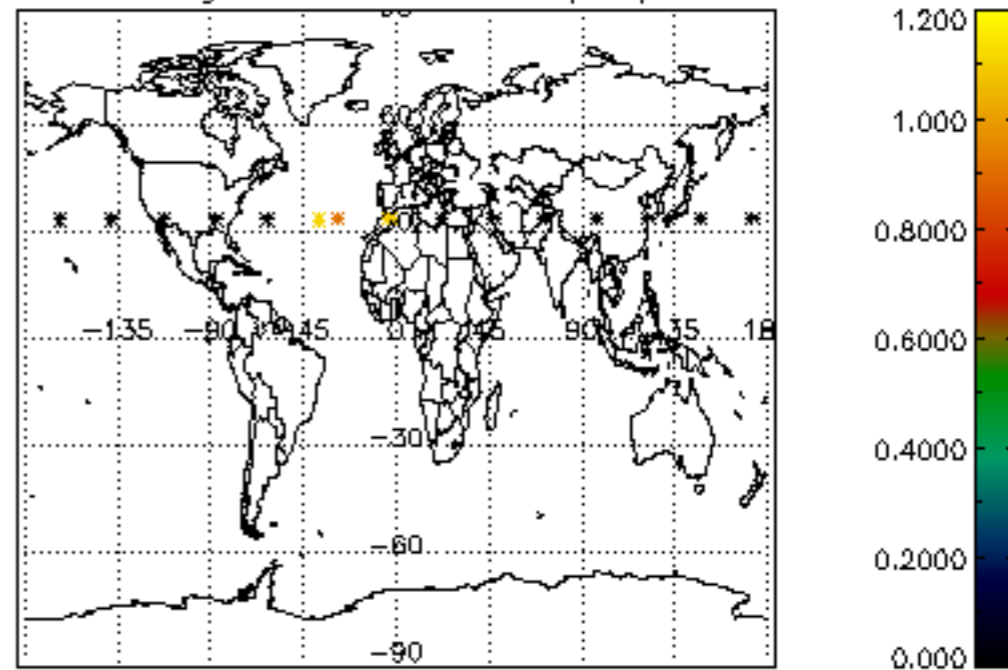




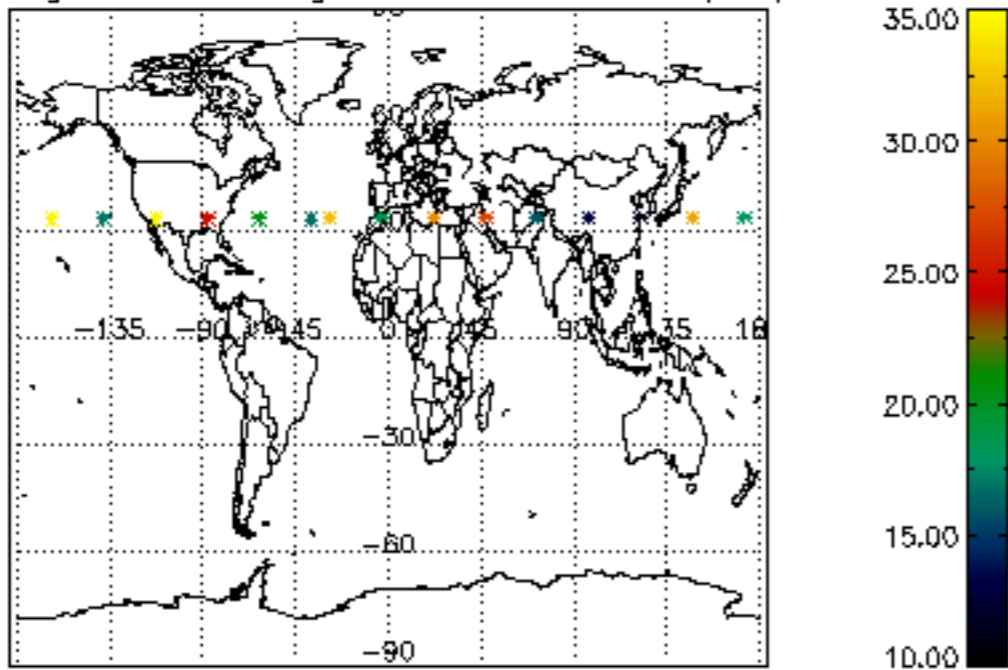
Percentage of cosmic ray hits per profile



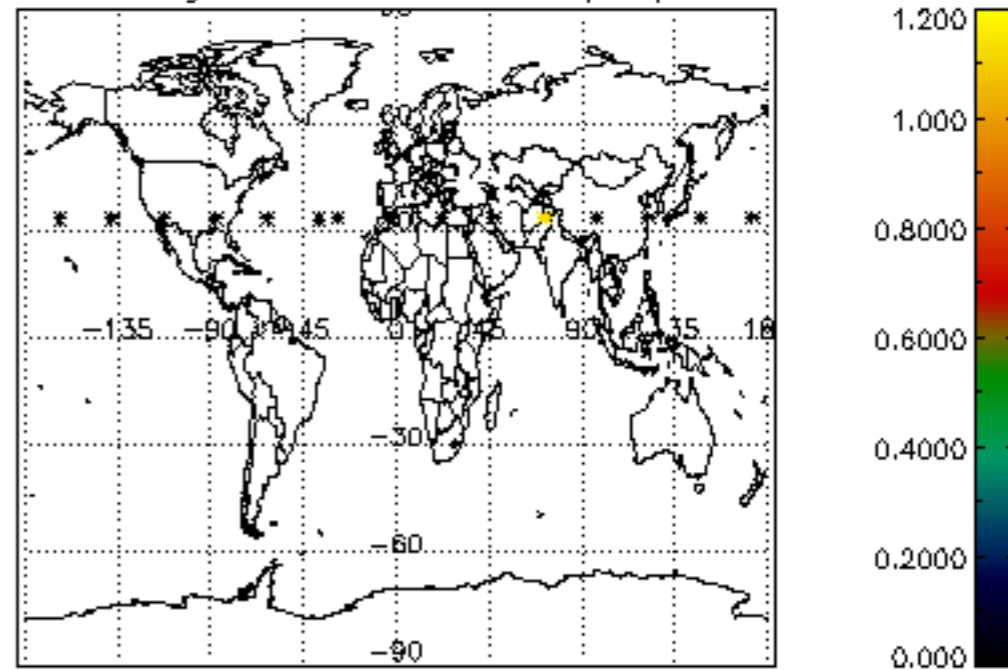
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

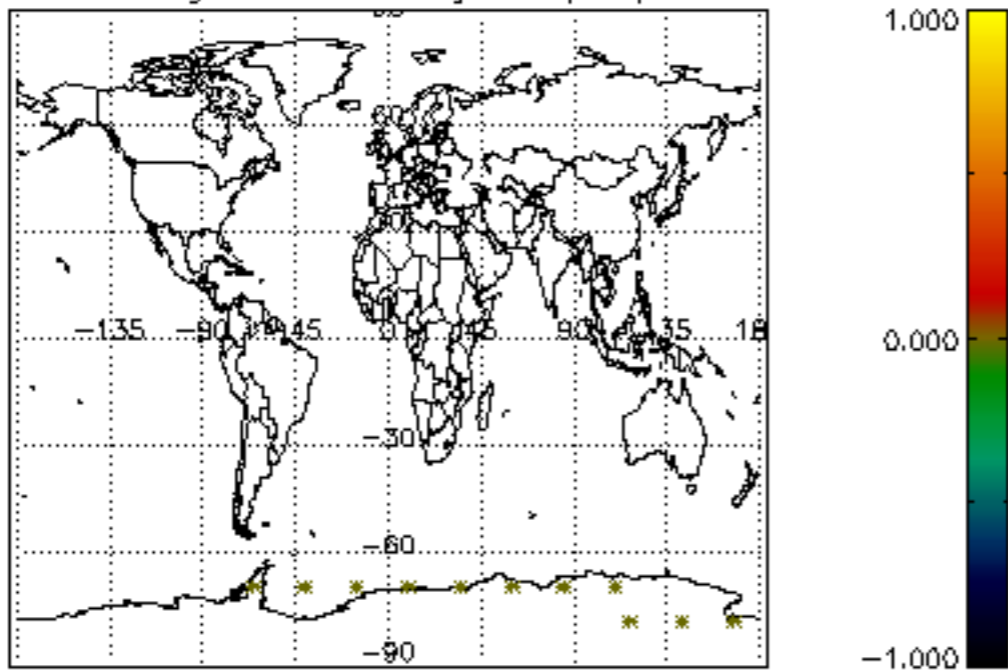


Percentage of saturation errors per profile

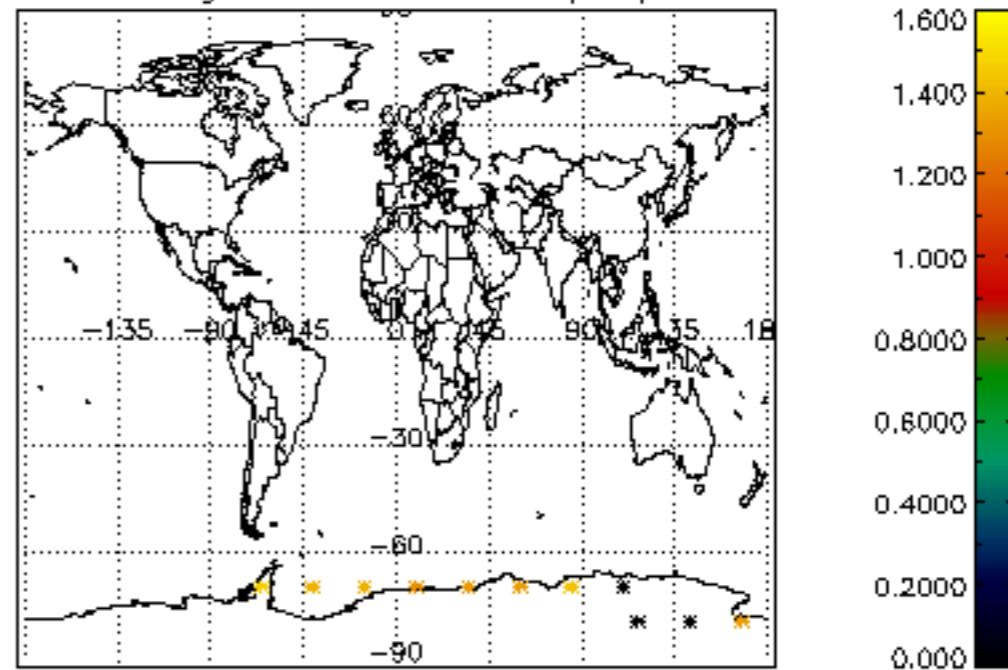




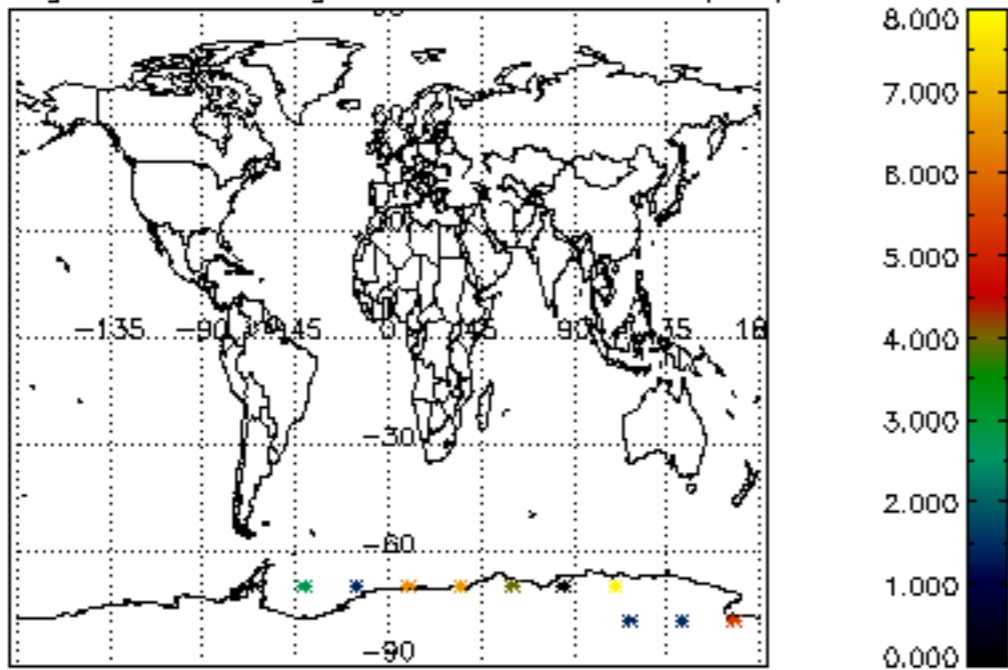
Percentage of cosmic ray hits per profile



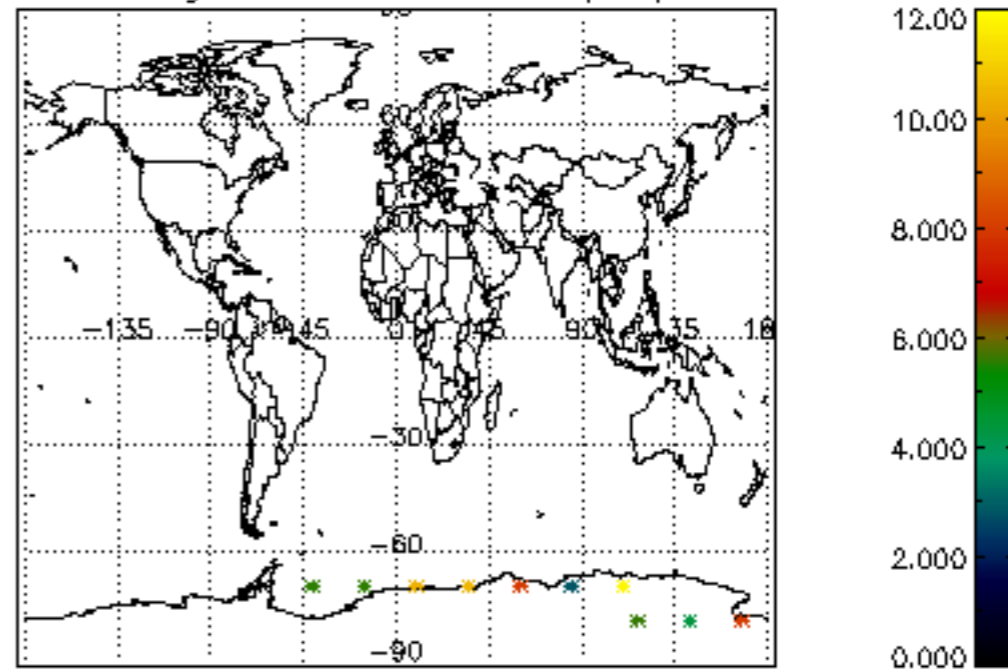
Percentage of datation errors per profile

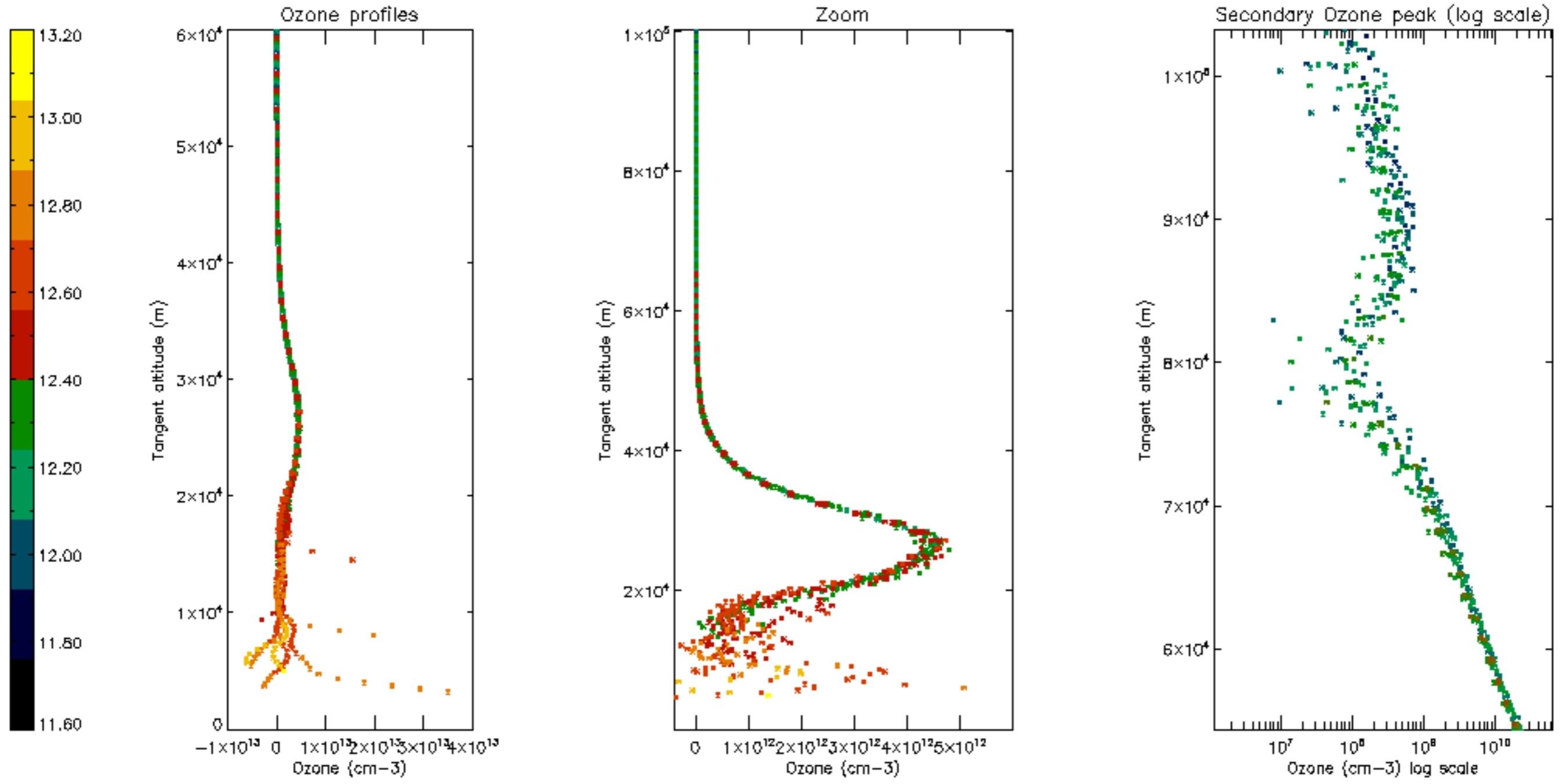


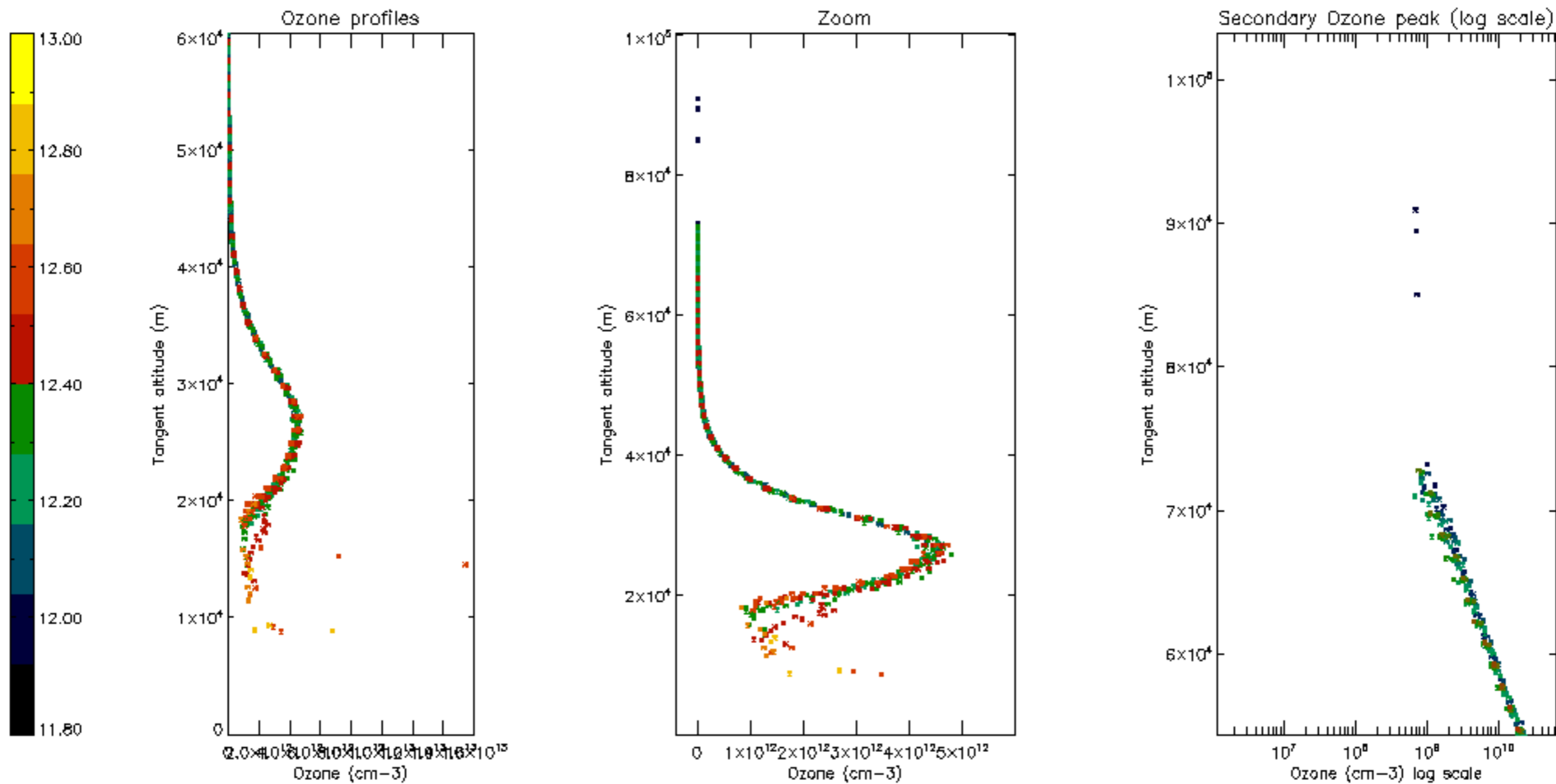
Percentage of star falling outside central band per profile

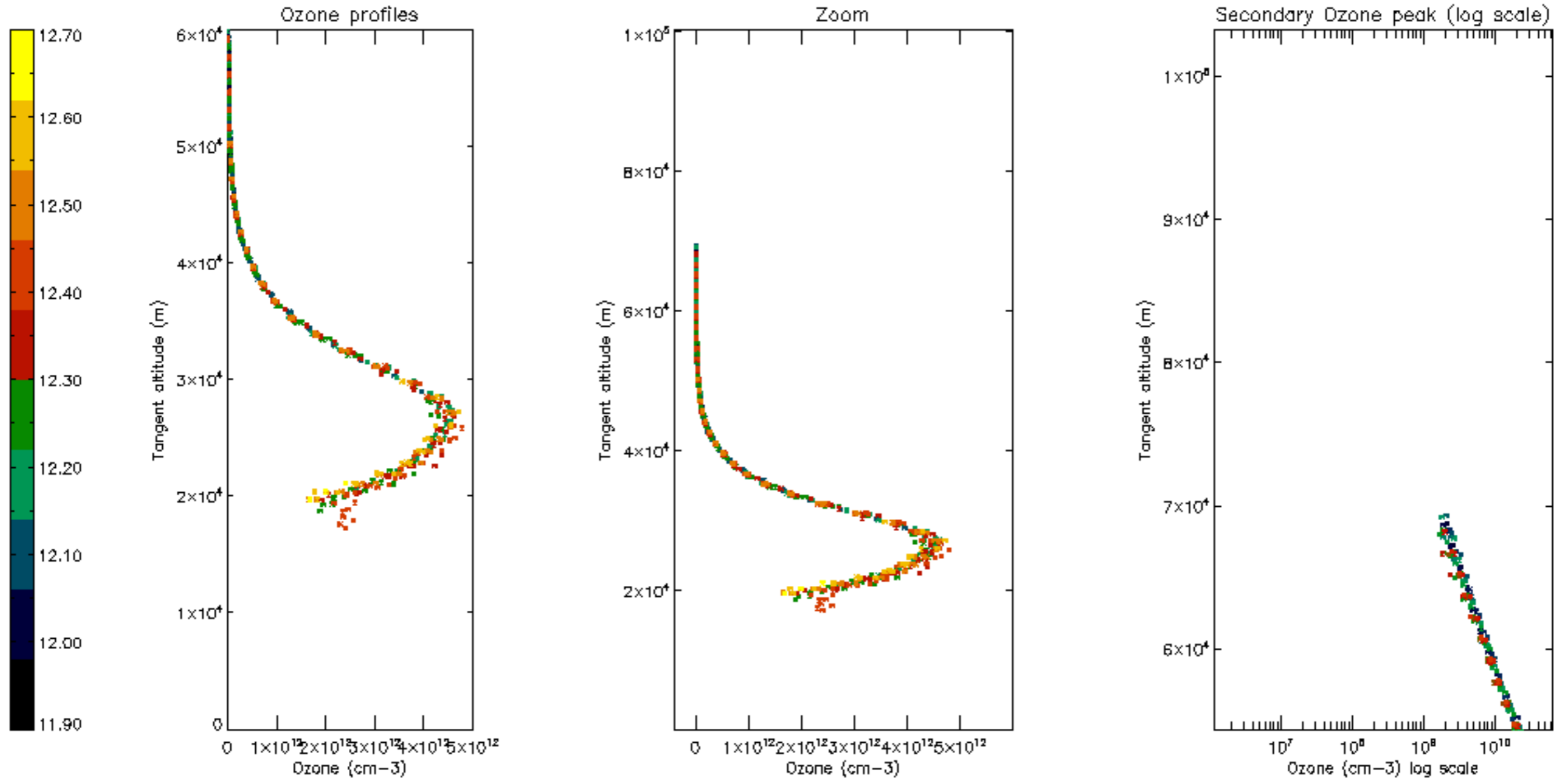


Percentage of saturation errors per profile

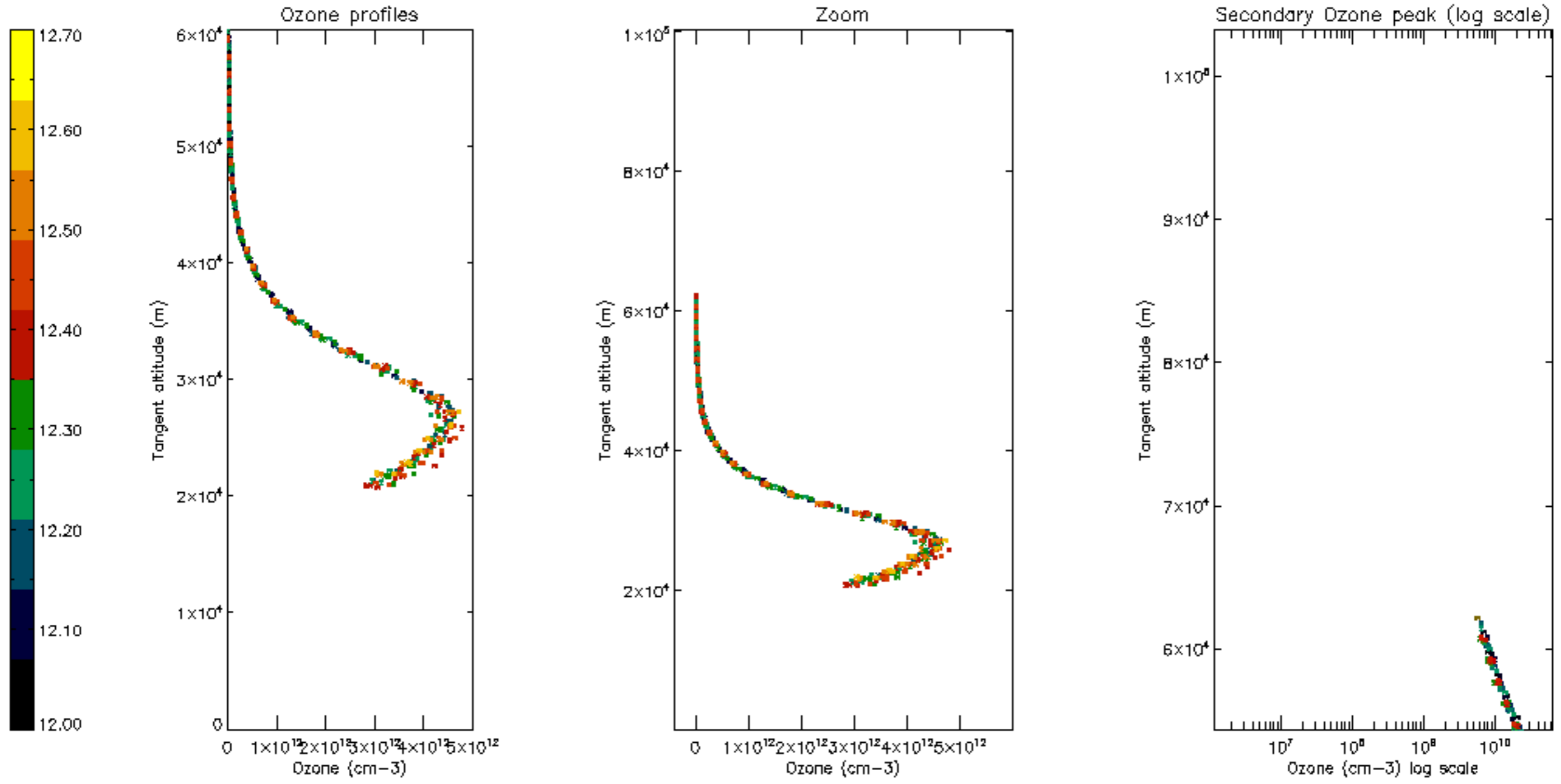


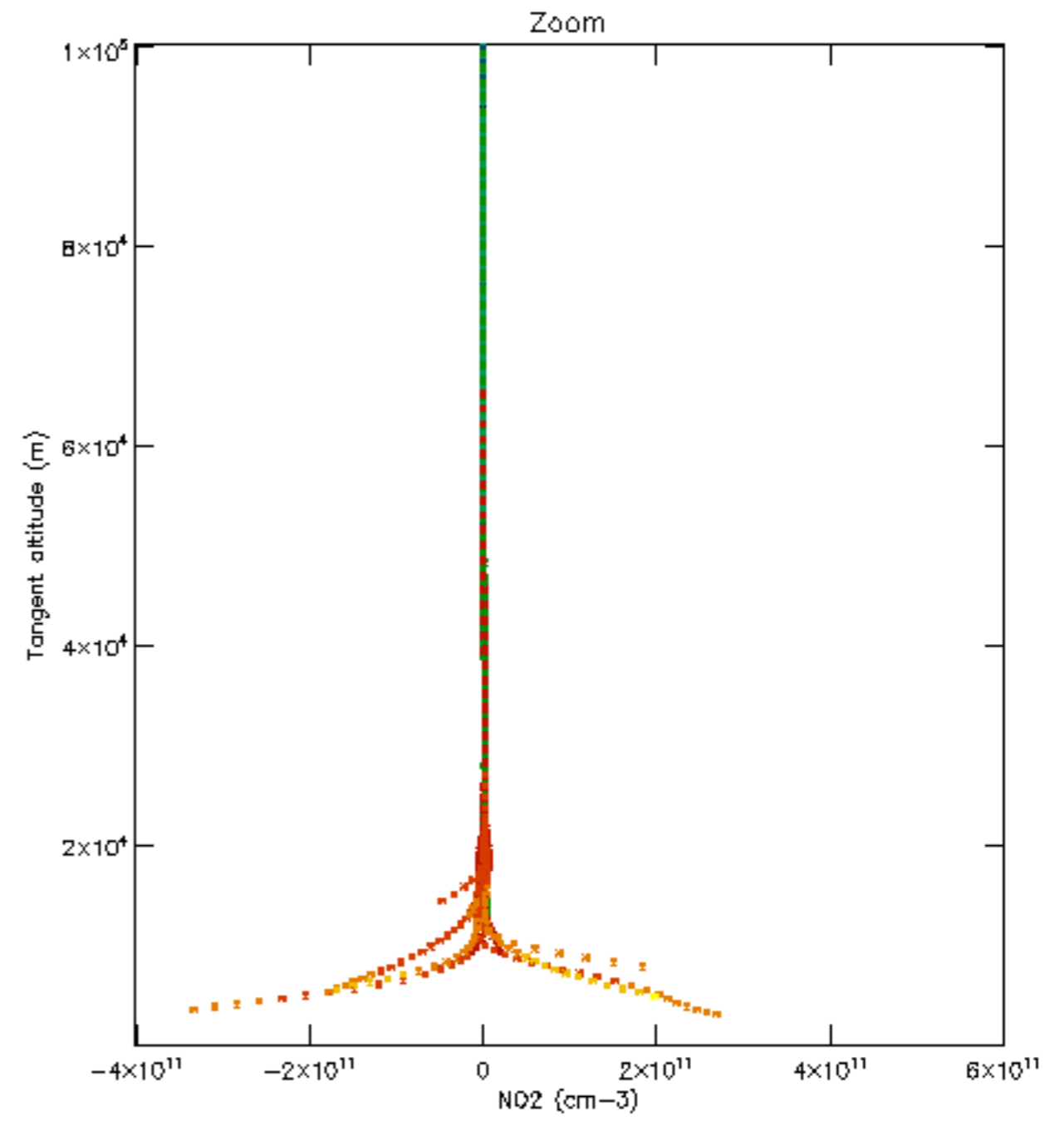
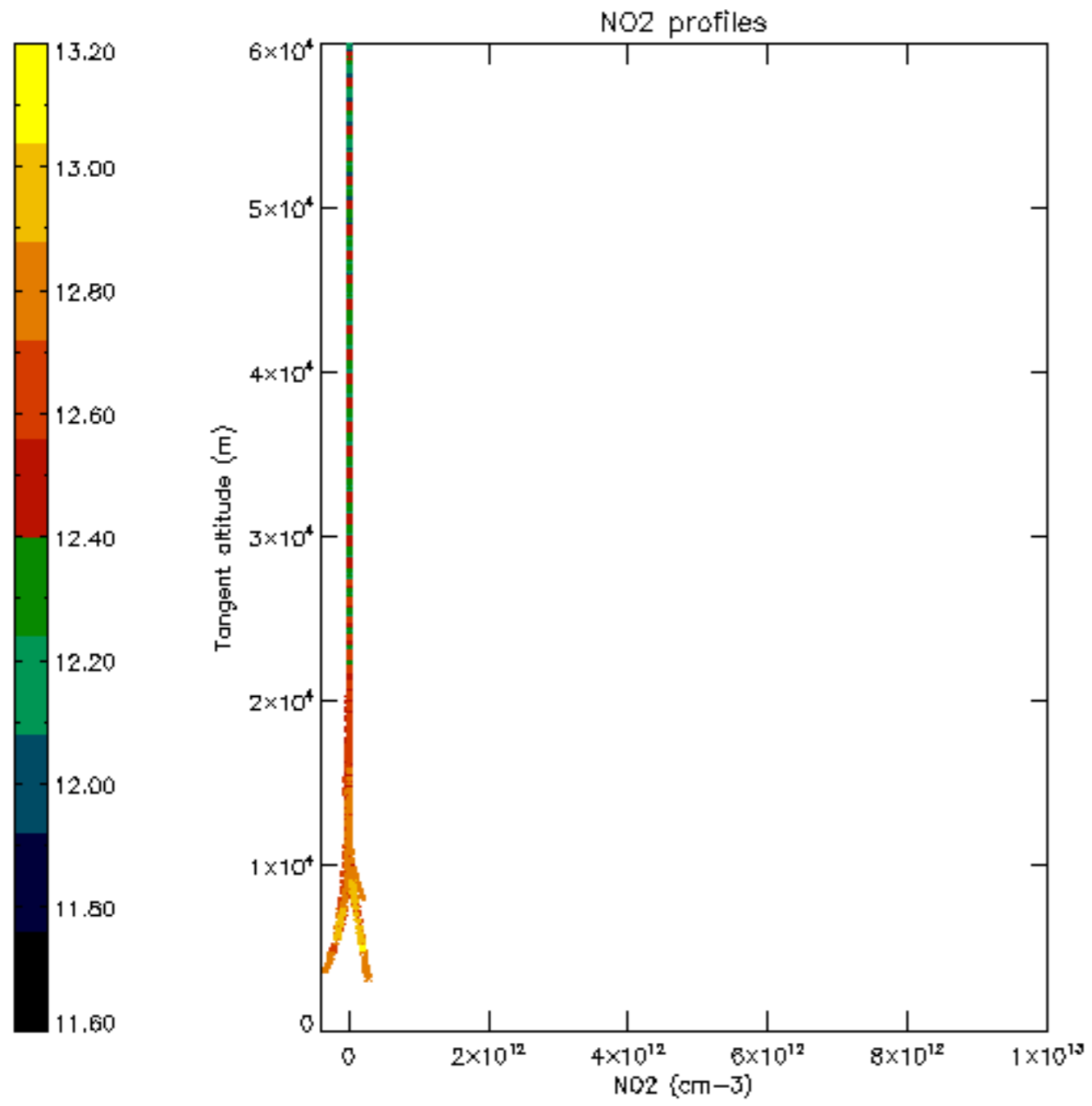


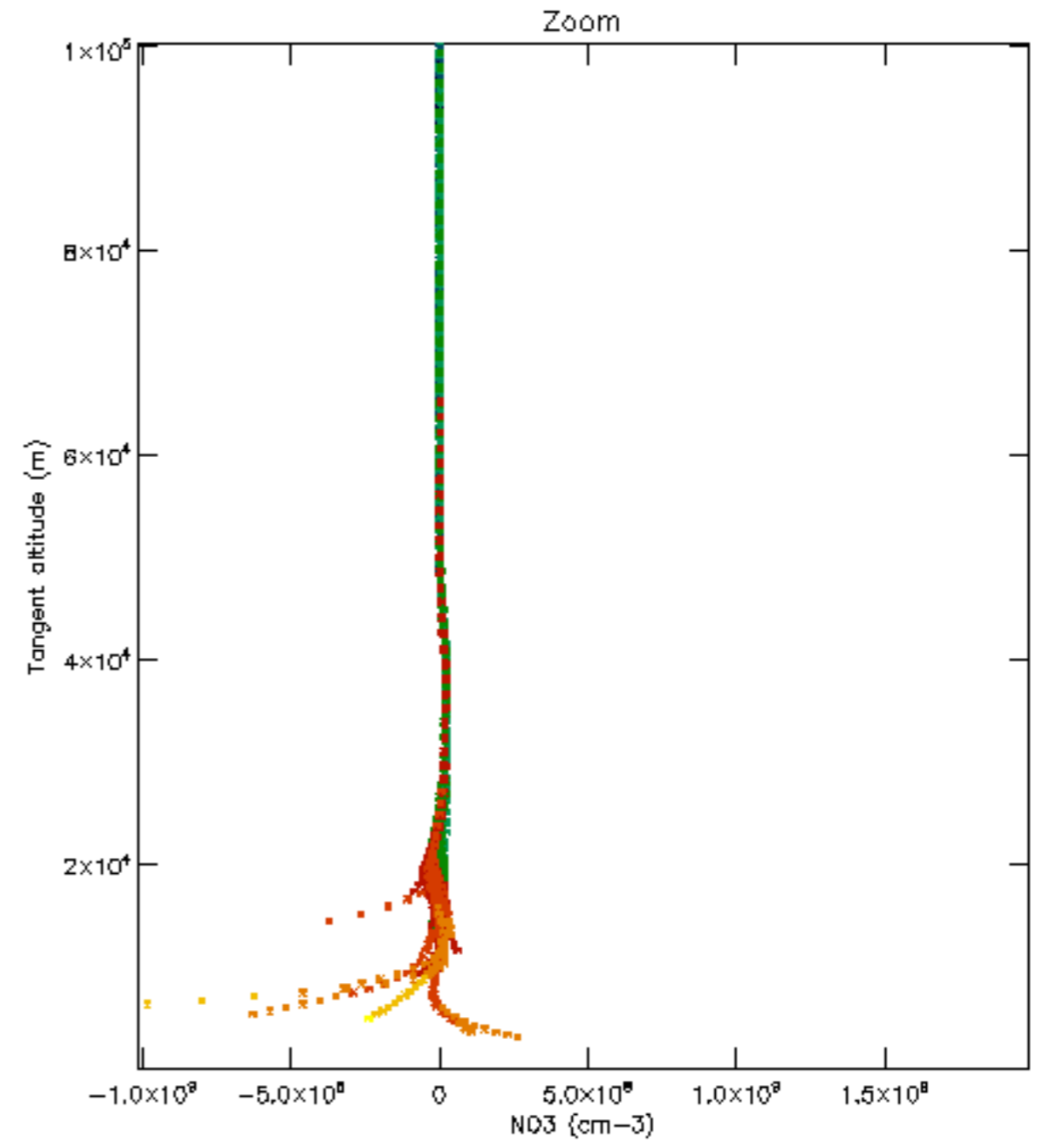
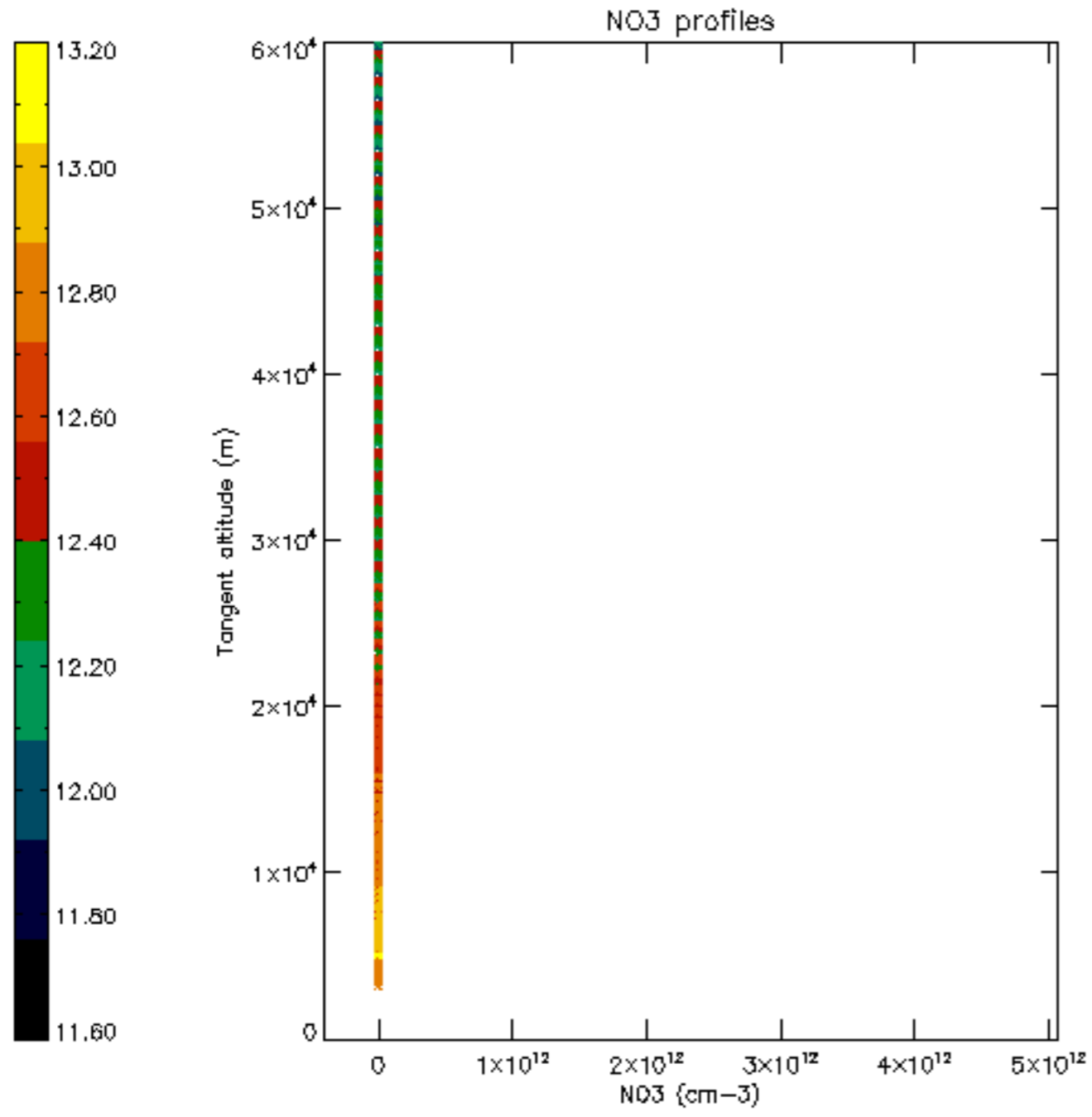


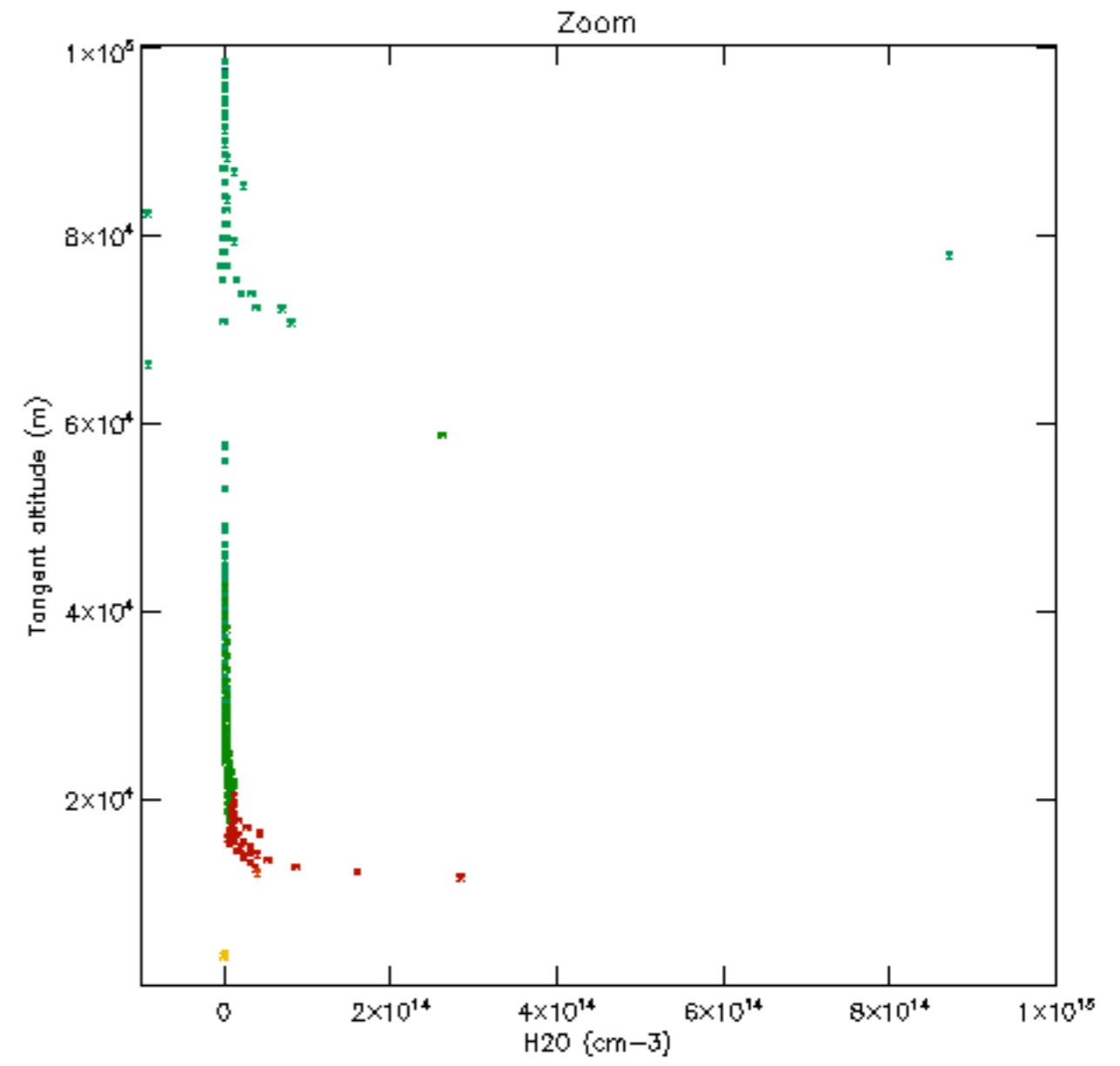
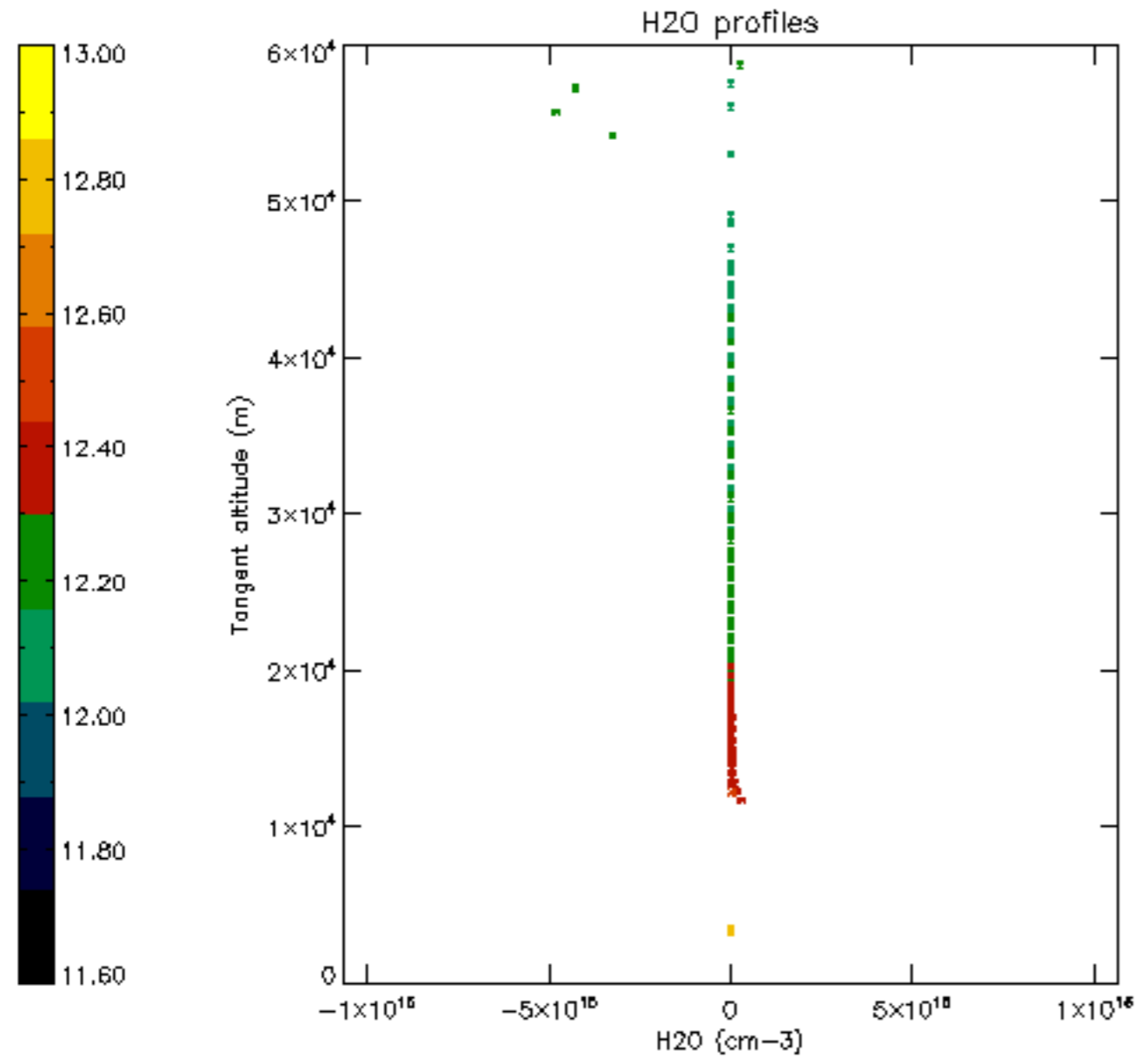


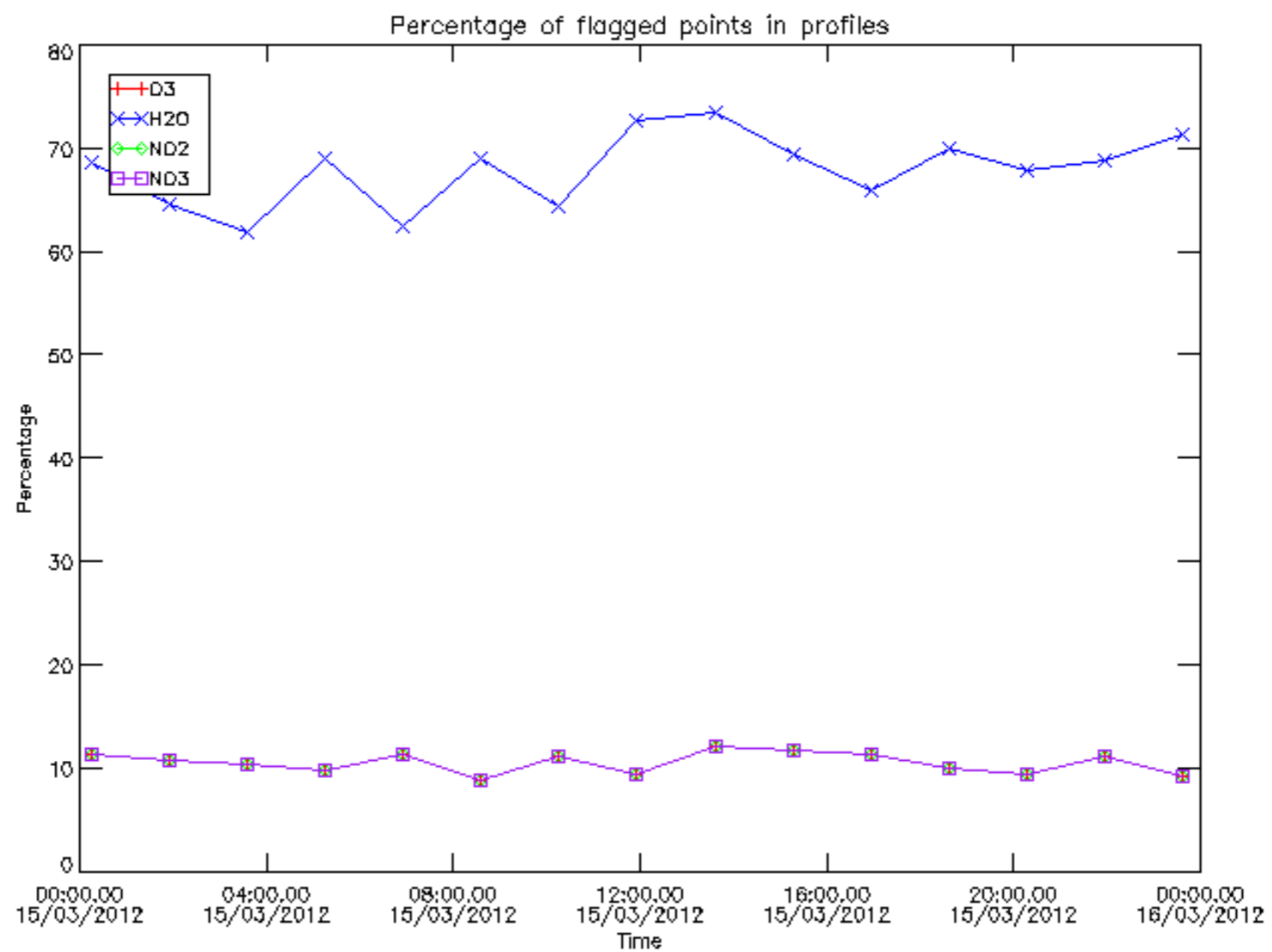






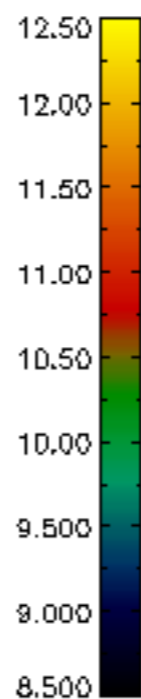
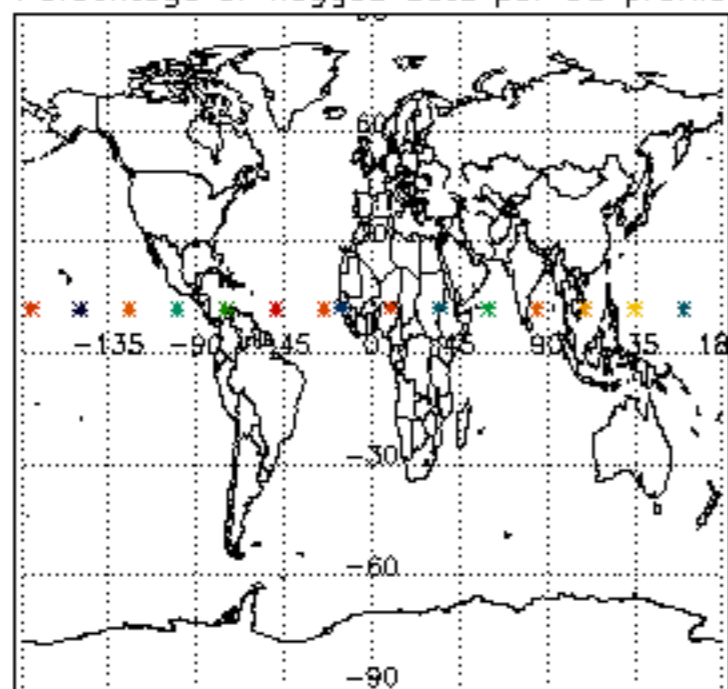




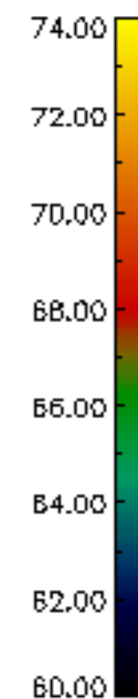
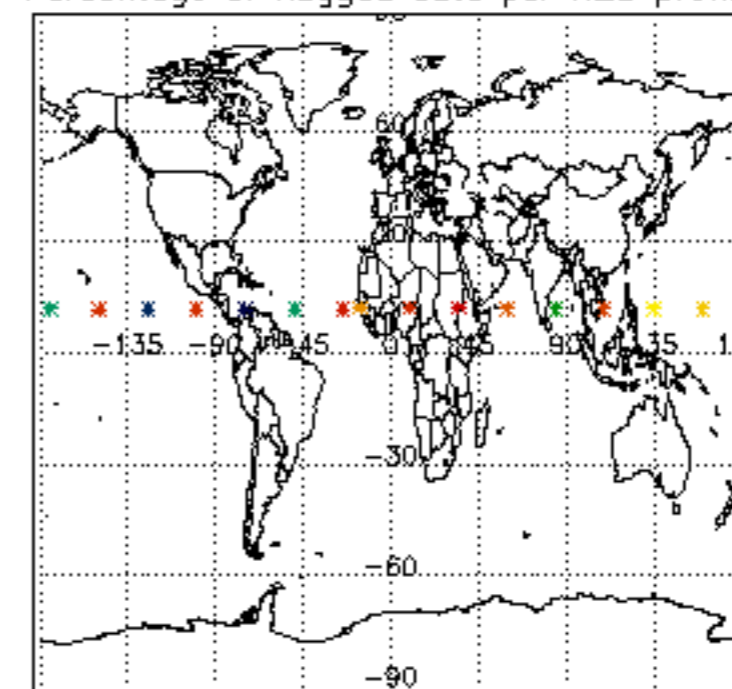




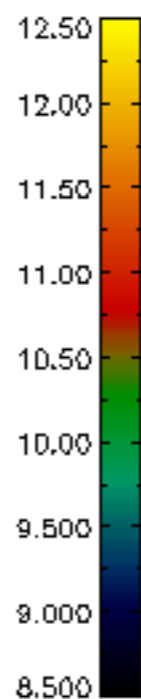
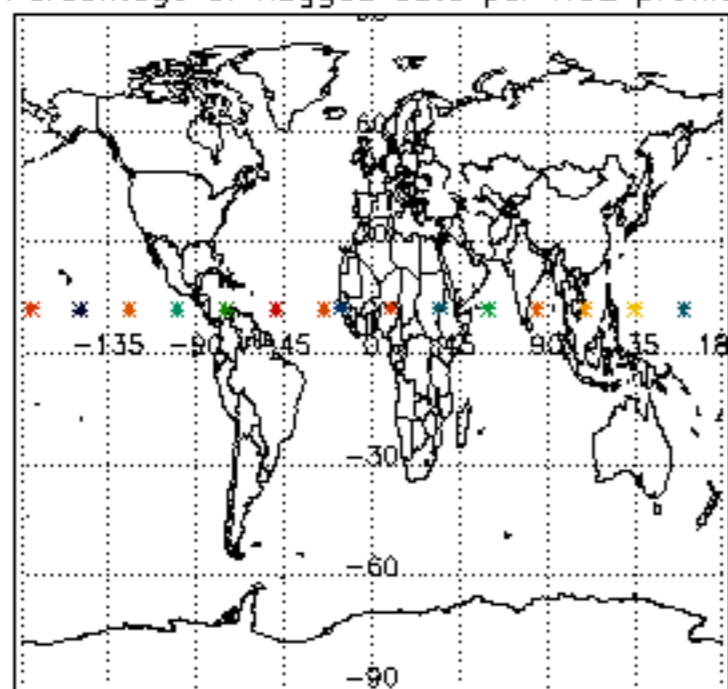
Percentage of flagged data per D3 profile



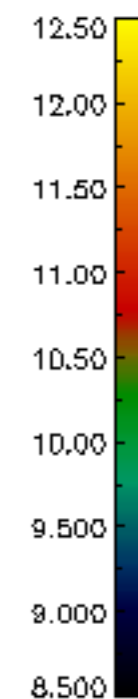
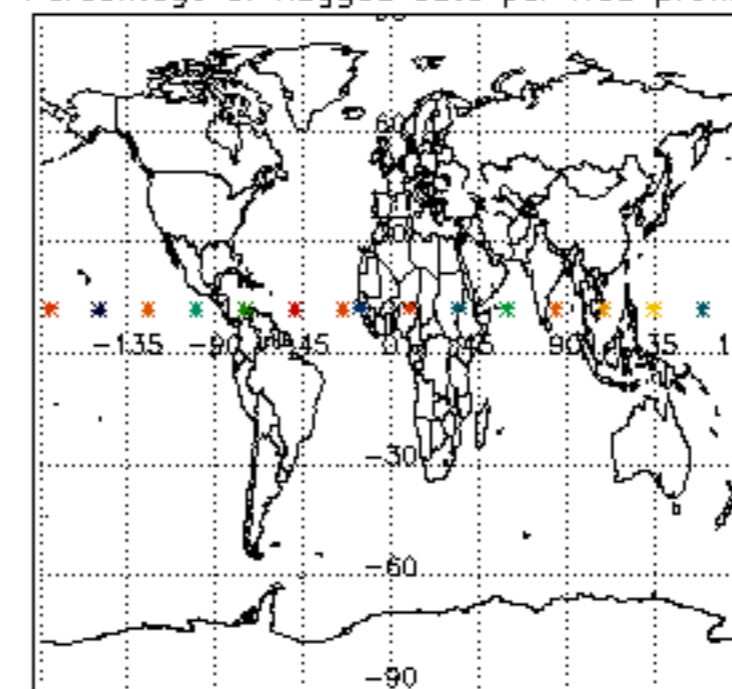
Percentage of flagged data per H2O profile

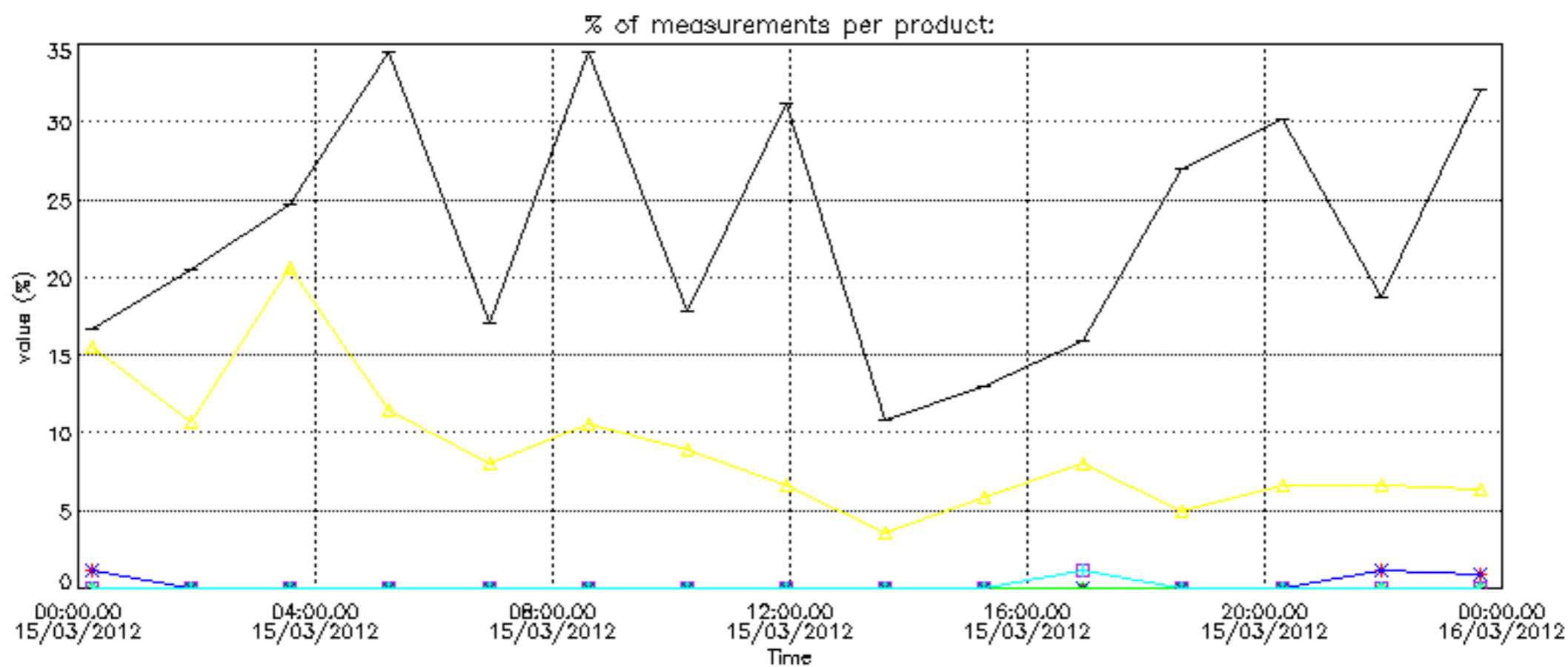


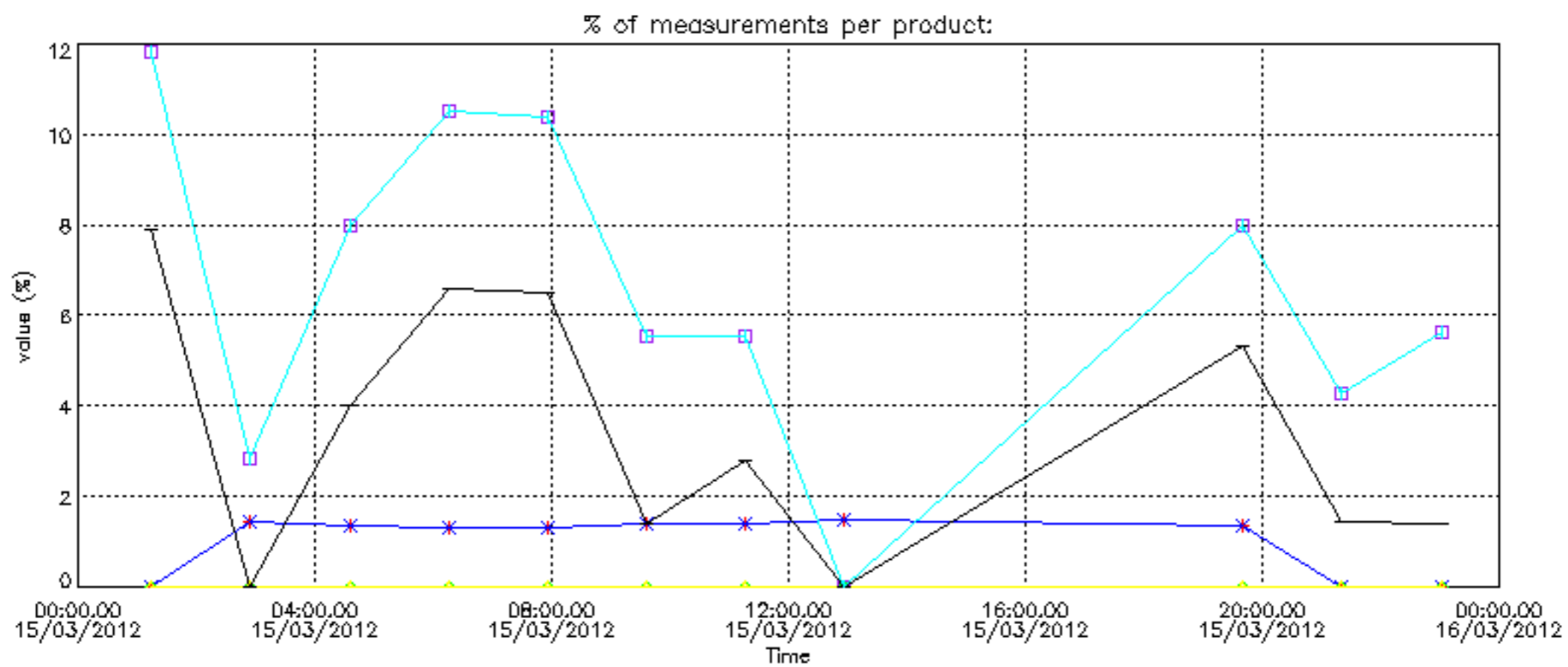
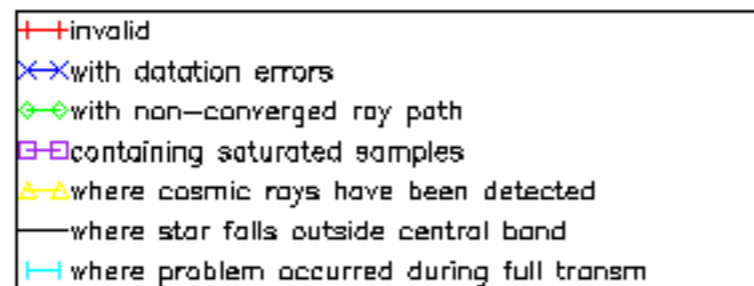
Percentage of flagged data per NO2 profile



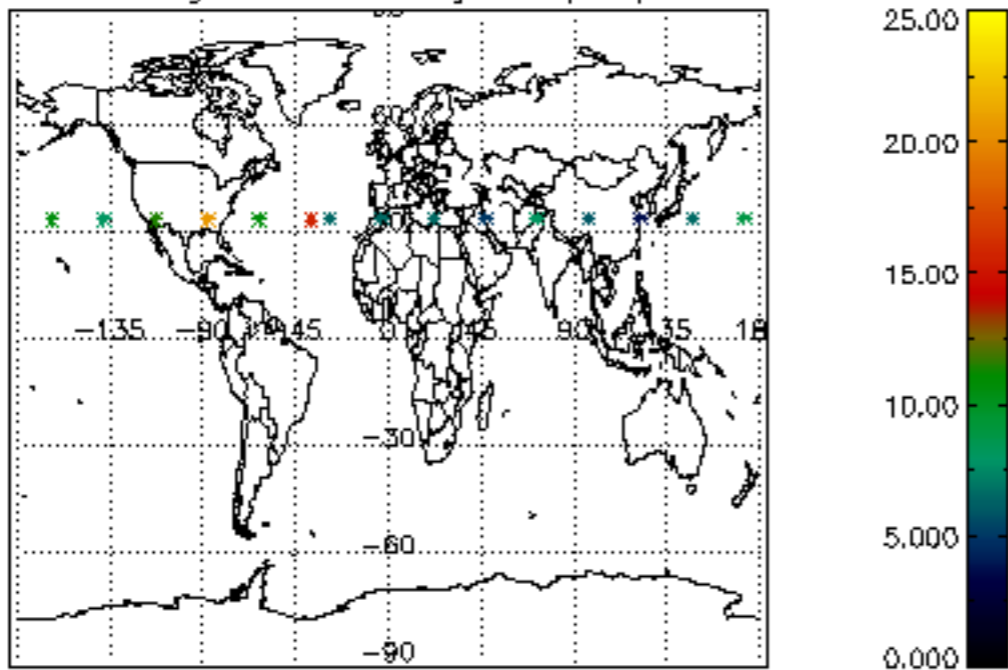
Percentage of flagged data per NO3 profile



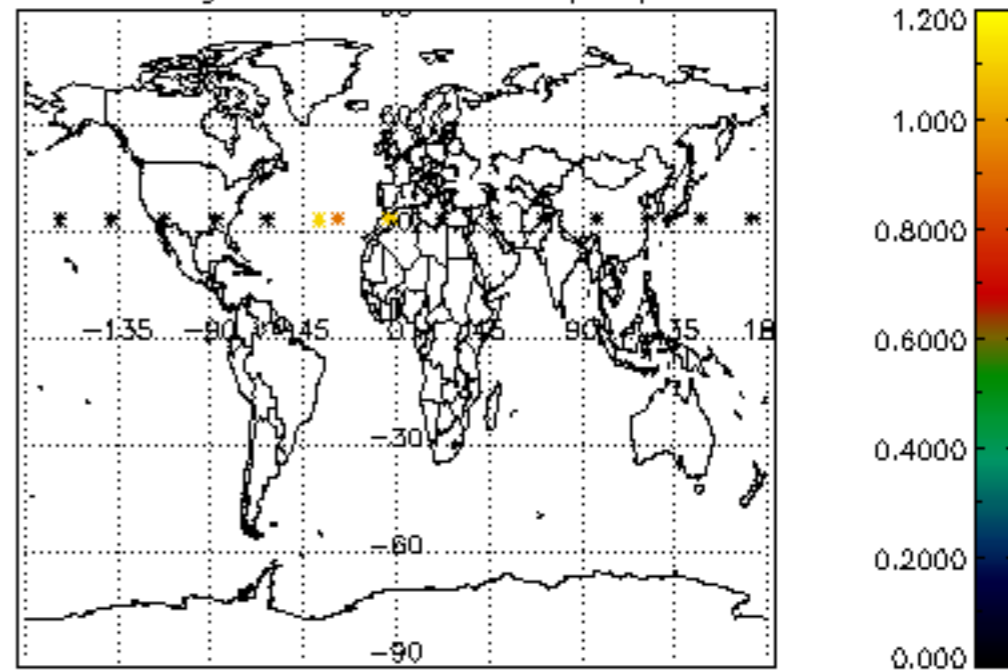




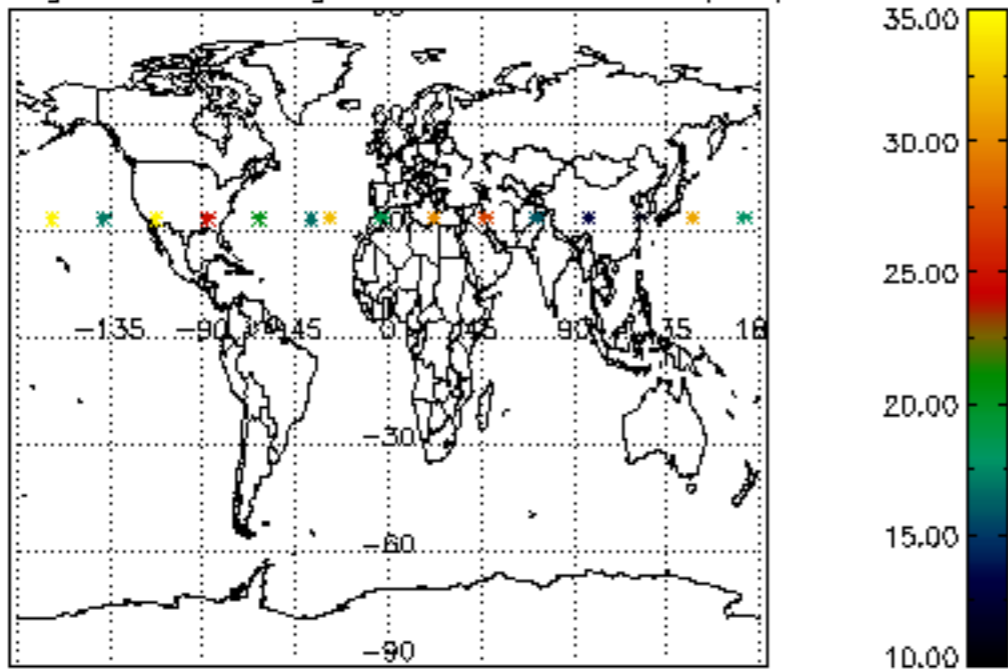
Percentage of cosmic ray hits per profile



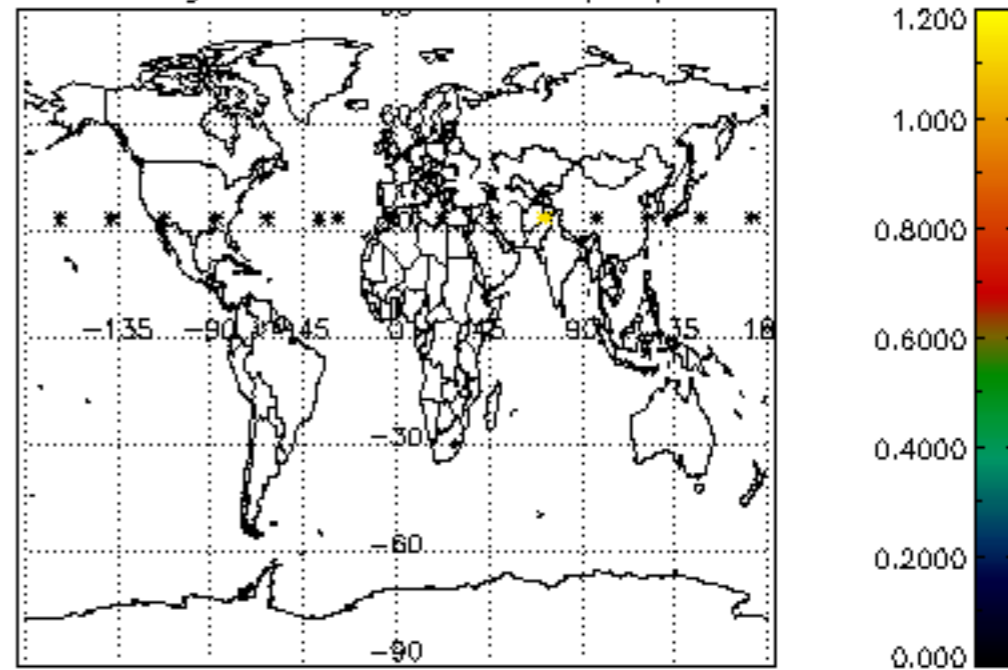
Percentage of datation errors per profile



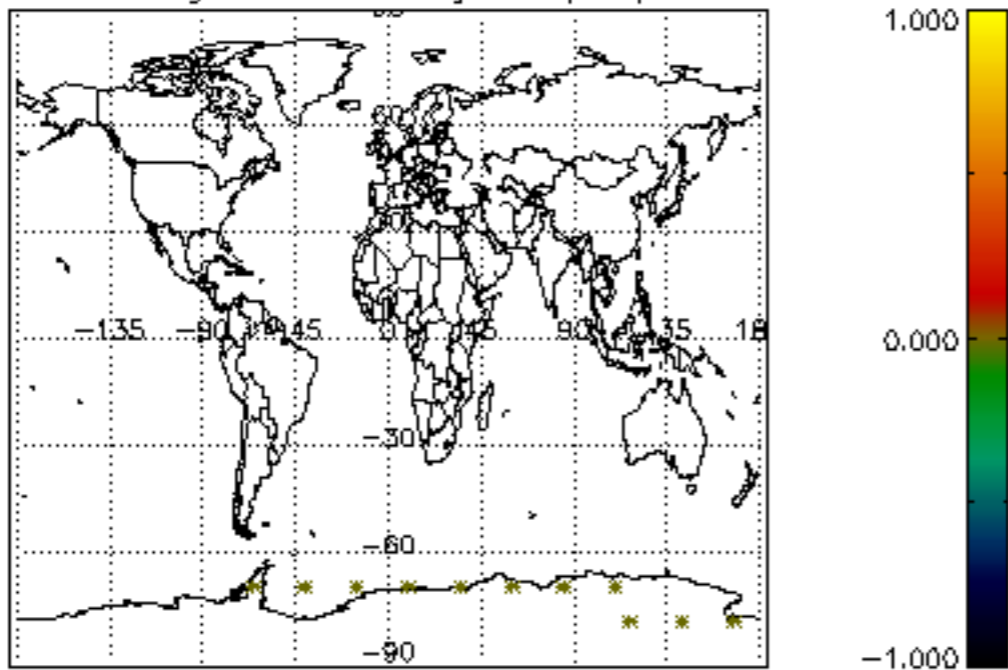
Percentage of star falling outside central band per profile



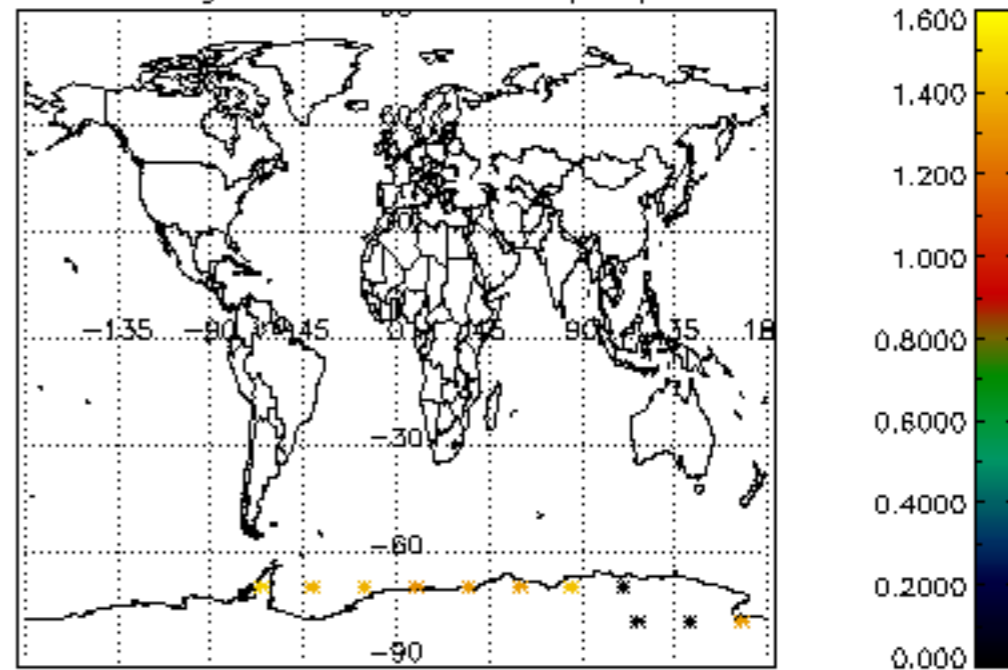
Percentage of saturation errors per profile



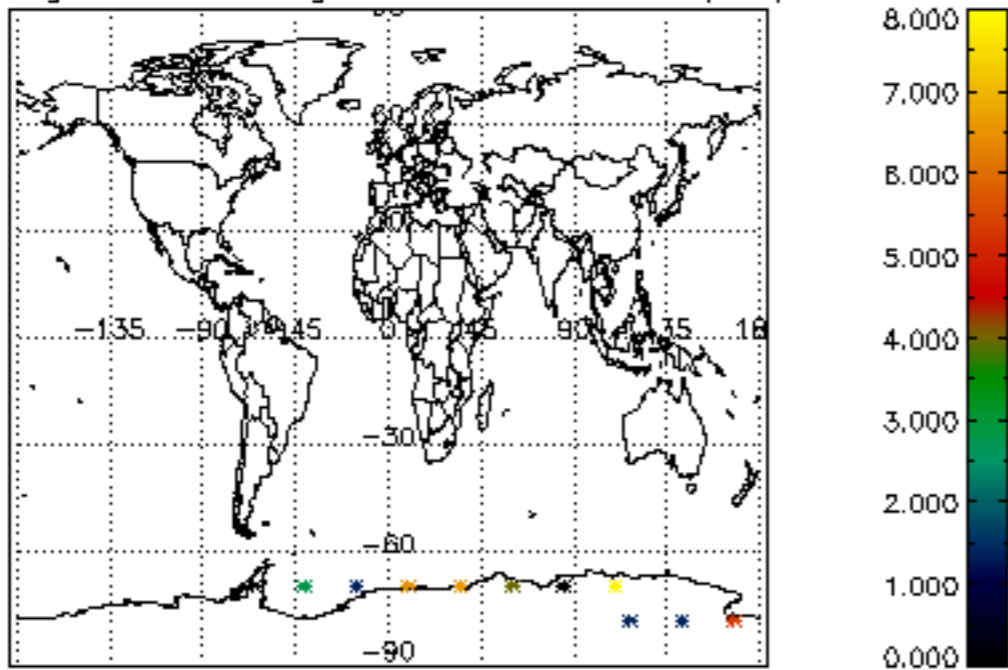
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

