

# 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	17APR2013 17:46:01
Data source version	GOMOS/6.01
Start time of products	23-07-2002 (23JUL2002 00:00:00)
Stop time of products	24-07-2002 (24JUL2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	28
Nb of prods with errors	0

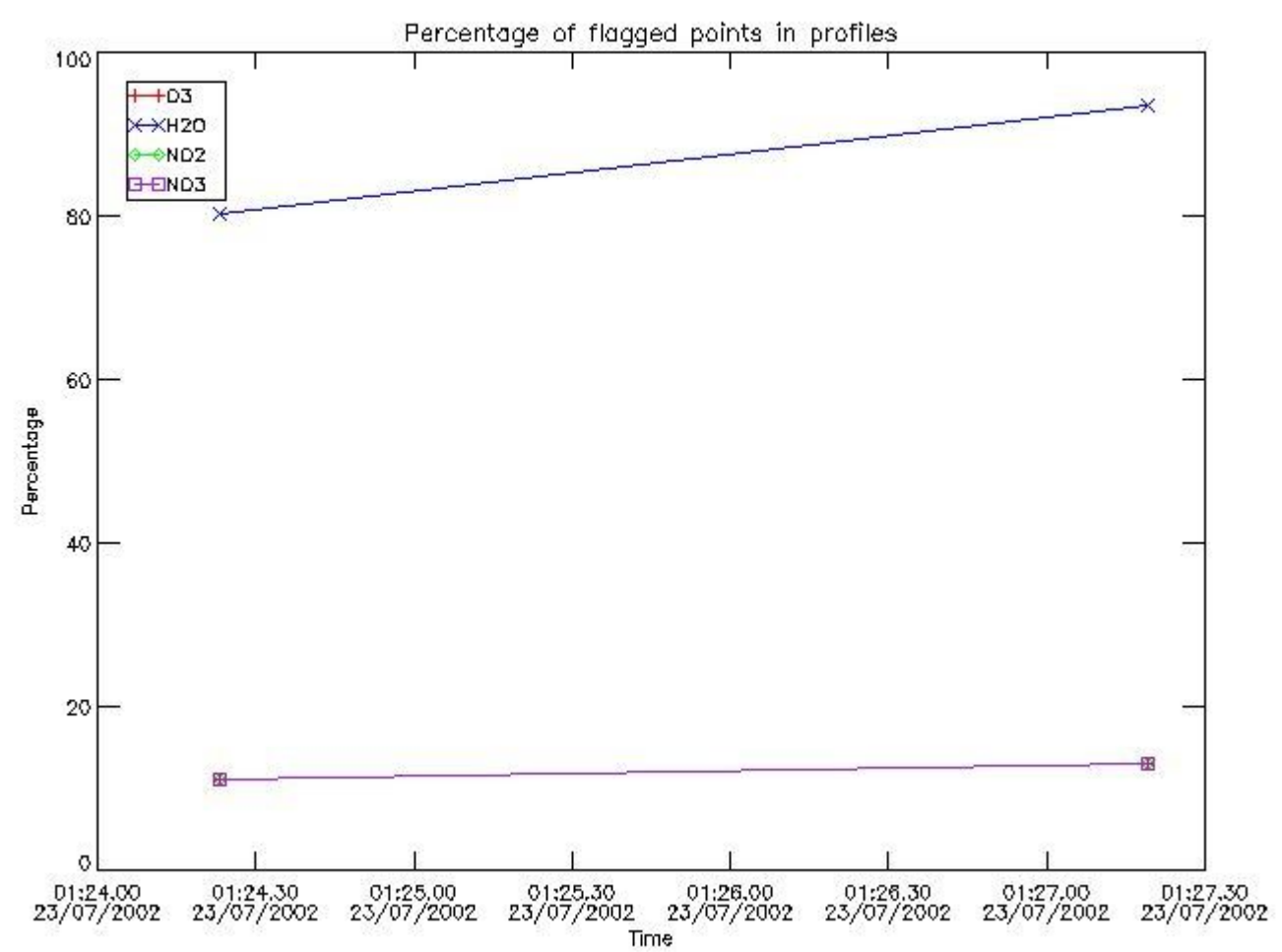
## 2. Summary of processed GOM\_NL\_\_2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20020723_000230_000000442008_00002_02060_8789.N1	23-JUL-2002 00:02:30	Bright	44.000	38	20Eps Sgr	1.8360	11000.	88	2060	No
2	GOM_NL__2PRFIN20020723_000348_000000402008_00002_02060_8790.N1	23-JUL-2002 00:03:48	Bright	39.500	116	19Del Sgr	2.7000	4100.0	79	2060	No
3	GOM_NL__2PRFIN20020723_000607_000000662008_00002_02060_8791.N1	23-JUL-2002 00:06:07	Bright	66.000	142	49Del Cap	2.8500	8900.0	132	2060	No
4	GOM_NL__2PRFIN20020723_001116_000000692008_00002_02060_8792.N1	23-JUL-2002 00:11:16	Bright	68.500	154	22Bet Aqr	2.8990	5700.0	137	2060	No
5	GOM_NL__2PRFIN20020723_001445_000000442008_00002_02060_8793.N1	23-JUL-2002 00:14:45	Bright	44.000	11	53Alp Aql	0.76500	8000.0	88	2060	No
6	GOM_NL__2PRFIN20020723_001638_000001272008_00002_02060_8794.N1	23-JUL-2002 00:16:38	Bright	126.50	162	34Alp Aqr	2.9440	5350.0	253	2060	No
7	GOM_NL__2PRFIN20020723_002258_000000382008_00002_02060_8795.N1	23-JUL-2002 00:22:58	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	2060	No
8	GOM_NL__2PRFIN20020723_002540_000000432008_00002_02060_8796.N1	23-JUL-2002 00:25:40	Bright	42.500	144	18Del Cyg	2.8600	11000.	85	2060	No
9	GOM_NL__2PRFIN20020723_002731_000000492008_00002_02060_8797.N1	23-JUL-2002 00:27:31	Bright	49.000	19	50Alp Cyg	1.2460	10500.	98	2060	No
10	GOM_NL__2PRFIN20020723_012423_000000462008_00003_02061_8792.N1	23-JUL-2002 01:24:23	Dark	46.000	9	Alp Eri	0.45300	24000.	92	2061	No
11	GOM_NL__2PRFIN20020723_012718_000000392008_00003_02061_8793.N1	23-JUL-2002 01:27:18	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	2061	No
12	GOM_NL__2PRFIN20020723_013203_000002082008_00003_02061_8794.N1	23-JUL-2002 01:32:03	Straylight	207.50	52	16Bet Cet	2.0370	4500.0	415	2061	No
13	GOM_NL__2PRFIN20020723_013747_000000762008_00003_02061_8795.N1	23-JUL-2002 01:37:47	Straylight	75.500	18	24Alp PsA	1.1660	9700.0	151	2061	No
14	GOM_NL__2PRFIN20020723_014306_000000412008_00003_02061_8796.N1	23-JUL-2002 01:43:06	Bright	40.500	38	20Eps Sgr	1.8360	11000.	81	2061	No
15	GOM_NL__2PRFIN20020723_014424_000000432008_00003_02061_8797.N1	23-JUL-2002 01:44:24	Bright	42.500	116	19Del Sgr	2.7000	4100.0	85	2061	No
16	GOM_NL__2PRFIN20020723_014643_000000662008_00003_02061_8798.N1	23-JUL-2002 01:46:43	Bright	66.000	142	49Del Cap	2.8500	8900.0	132	2061	No
17	GOM_NL__2PRFIN20020723_015152_000000382008_00003_02061_8799.N1	23-JUL-2002 01:51:52	Twilight	38.000	154	22Bet Aqr	2.8990	5700.0	76	2061	No
18	GOM_NL__2PRFIN20020723_015519_000000462008_00003_02061_8800.N1	23-JUL-2002 01:55:19	Bright	46.000	11	53Alp Aql	0.76500	8000.0	92	2061	No
19	GOM_NL__2PRFIN20020723_015712_000001242008_00003_02061_8801.N1	23-JUL-2002 01:57:12	Bright	124.00	162	34Alp Aqr	2.9440	5350.0	248	2061	No
20	GOM_NL__2PRFIN20020723_020334_000000392008_00003_02061_8802.N1	23-JUL-2002 02:03:34	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	2061	No
21	GOM_NL__2PRFIN20020723_020617_000000422008_00003_02061_8803.N1	23-JUL-2002 02:06:17	Bright	42.000	144	18Del Cyg	2.8600	11000.	84	2061	No
22	GOM_NL__2PRFIN20020723_020806_000000462008_00003_02061_8804.N1	23-JUL-2002 02:08:06	Bright	46.000	19	50Alp Cyg	1.2460	10500.	92	2061	No
23	GOM_NL__2PRFIN20020723_021044_000000382008_00003_02061_8805.N1	23-JUL-2002 02:10:44	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	2061	No
24	GOM_NL__2PRFIN20020723_021316_000000472008_00003_02061_8806.N1	23-JUL-2002 02:13:16	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	2061	No
25	GOM_NL__2PRFIN20020723_021458_000000352008_00003_02061_8807.N1	23-JUL-2002 02:14:58	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	2061	No
26	GOM_NL__2PRFIN20020723_021807_000000392008_00003_02061_8808.N1	23-JUL-2002 02:18:07	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	2061	No
27	GOM_NL__2PRFIN20020723_022027_000000542008_00003_02061_8809.N1	23-JUL-2002 02:20:27	Bright	54.000	74	11Bet Cas	2.2680	6600.0	108	2061	No
28	GOM_NL__2PRFIN20020723_022207_000000492008_00003_02061_8810.N1	23-JUL-2002 02:22:07	Bright	49.000	76	27Gam Cas	2.3000	30000.	98	2061	No

## 3. Quality information per product

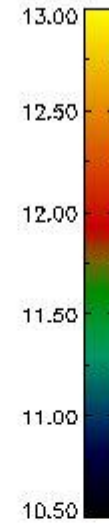
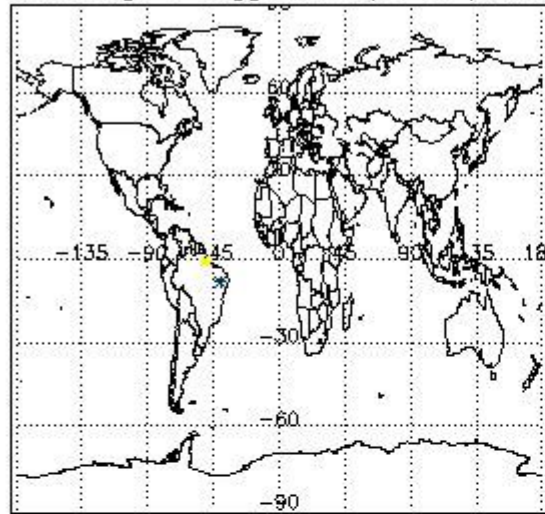
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

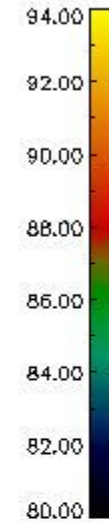
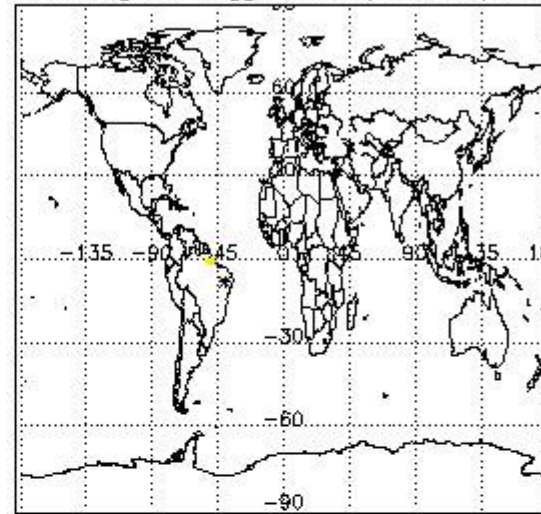


3.2 Plot quality information per product (world map)

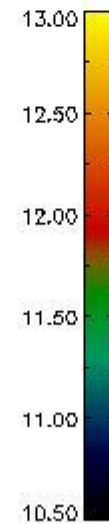
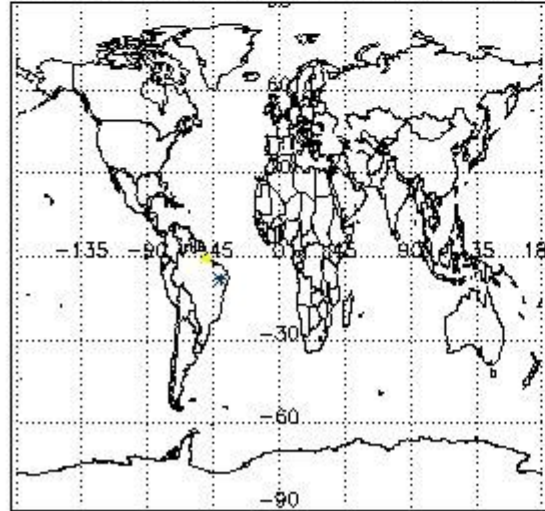
Percentage of flagged data per O3 profile



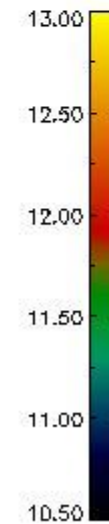
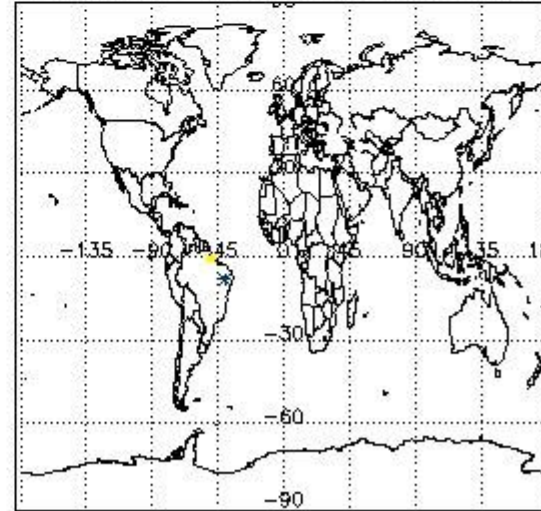
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

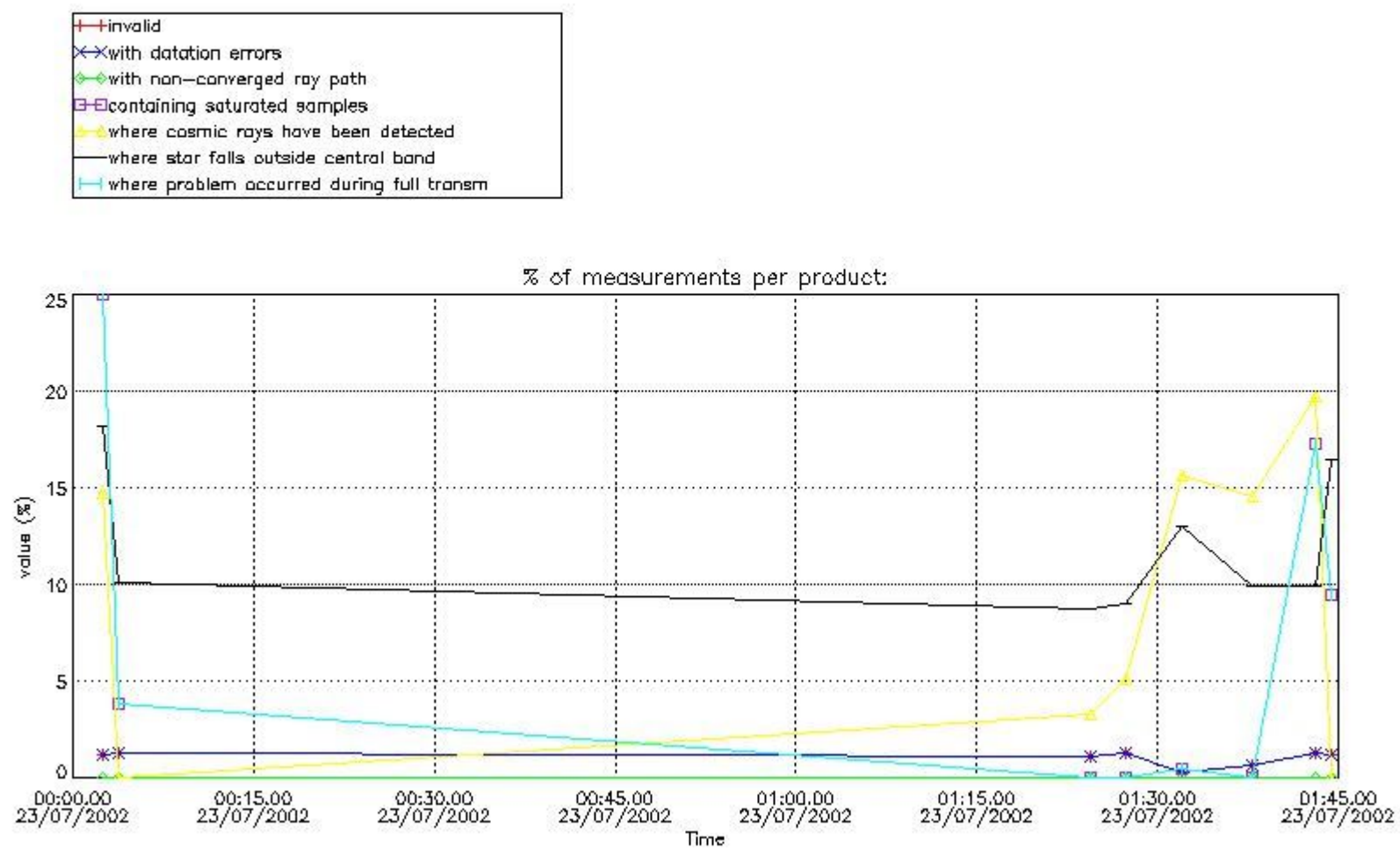


#### 4. Level 1 quality information per product

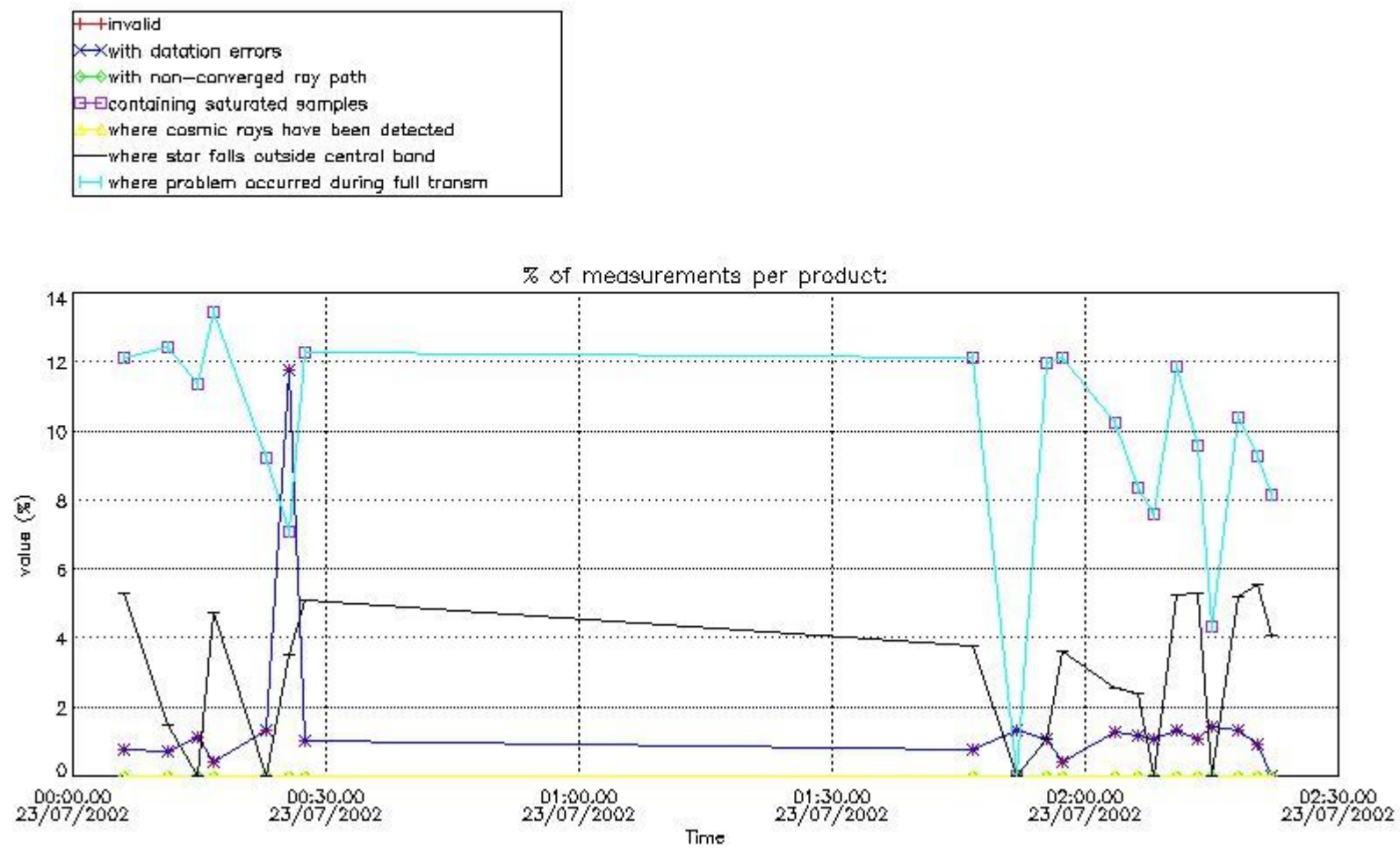
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

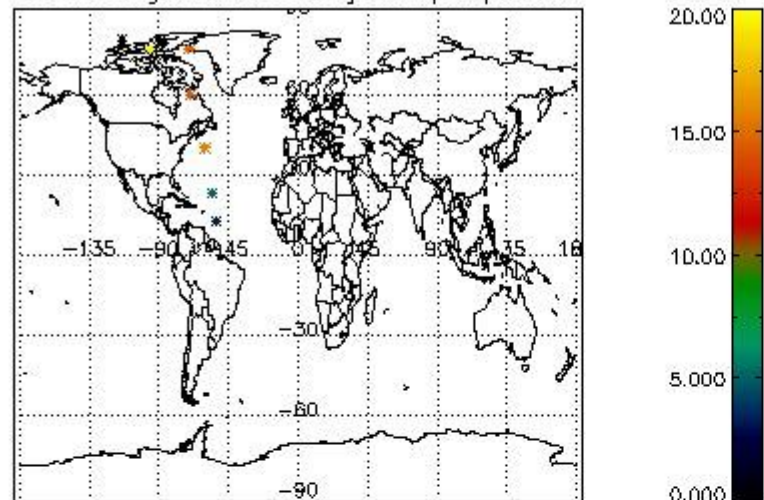


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

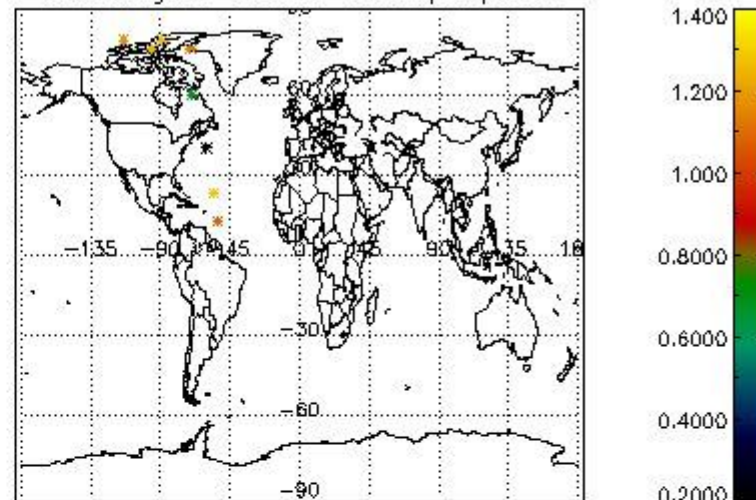


4.2 Plot quality information per product coming from level 1b processing (world map)  
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

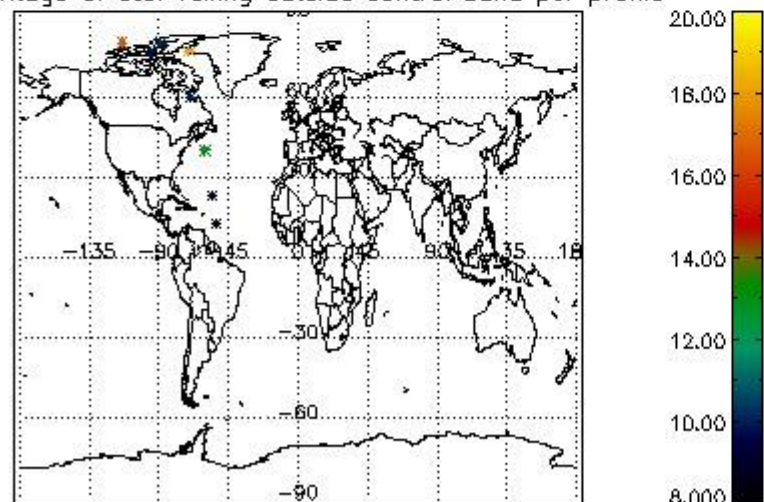
Percentage of cosmic ray hits per profile



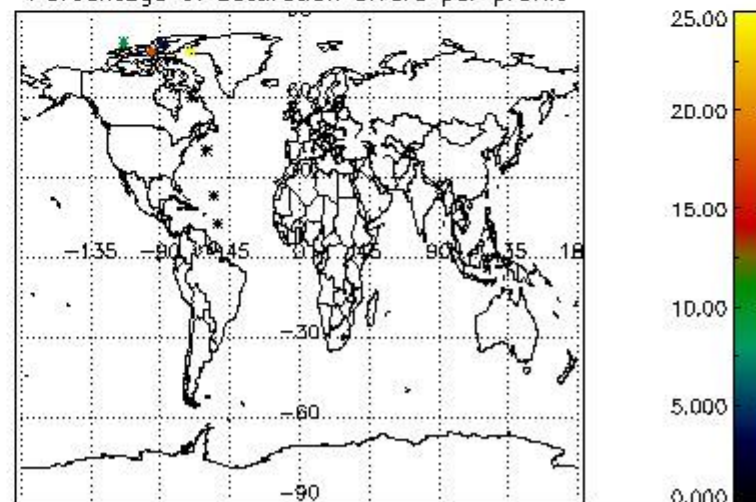
Percentage of datation errors per profile



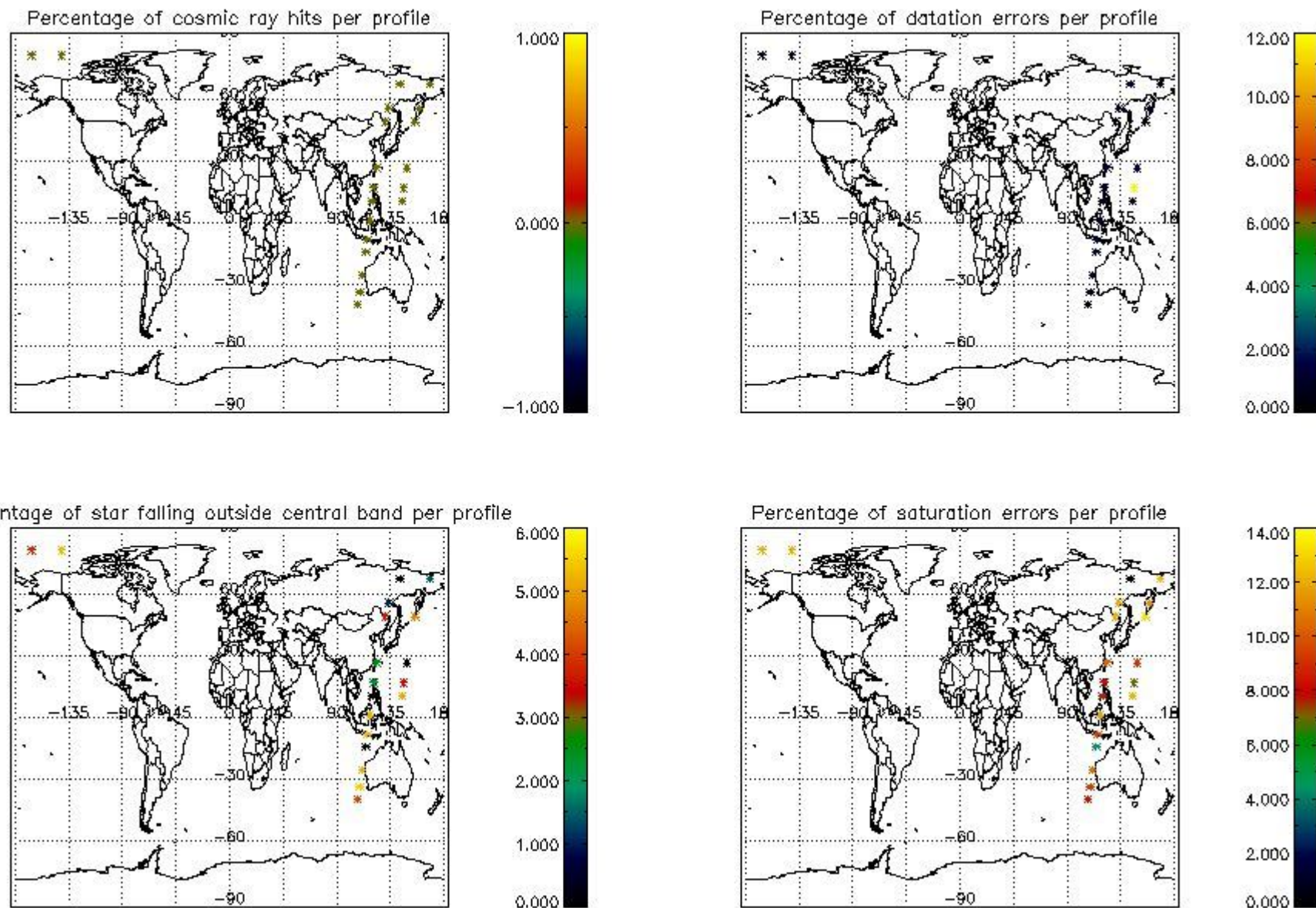
Percentage of star falling outside central band per profile



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.

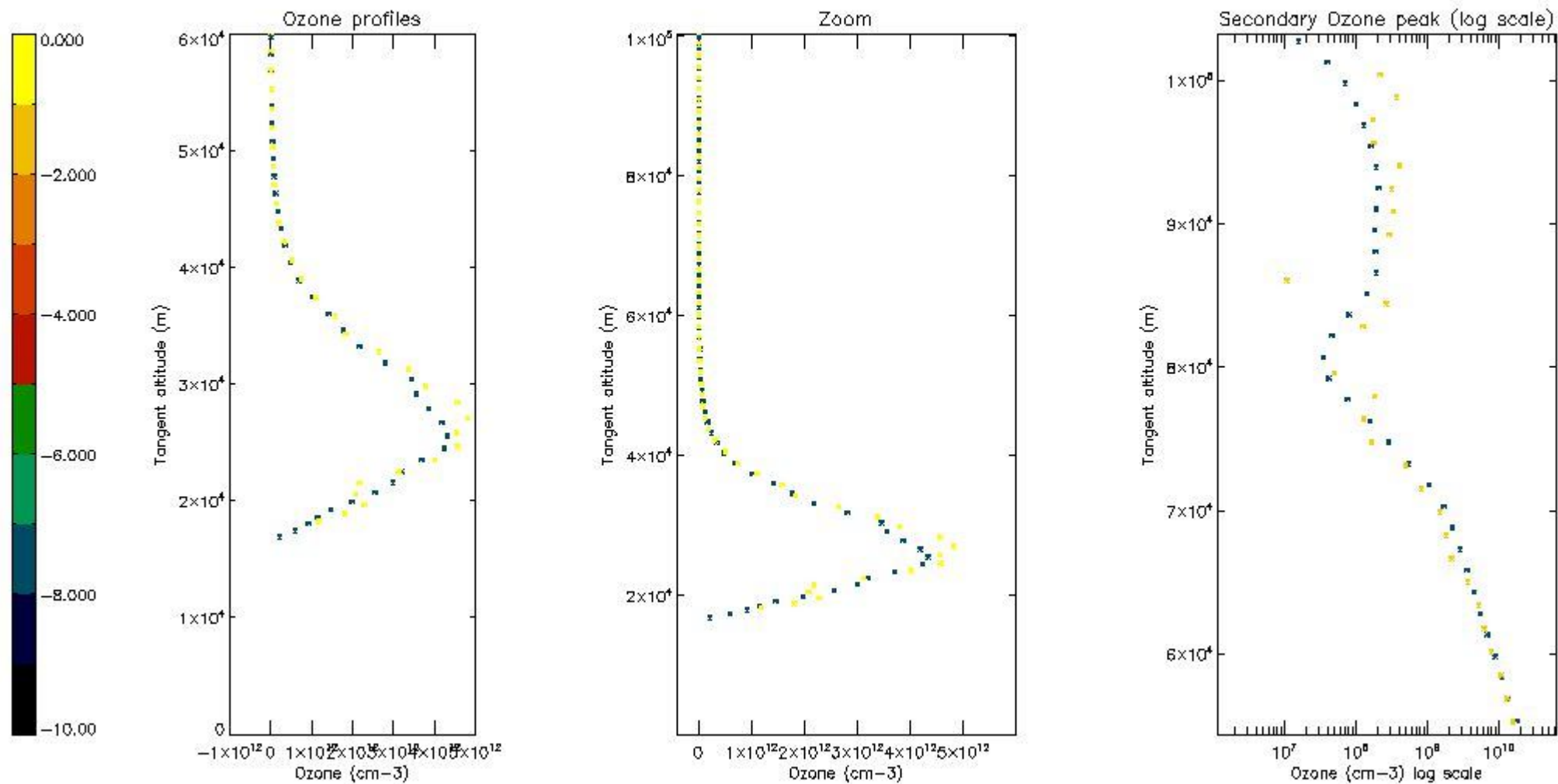
Criteria	% of total production
All STD	5
STD < 20	3



STD < 10	3
STD < 5	2

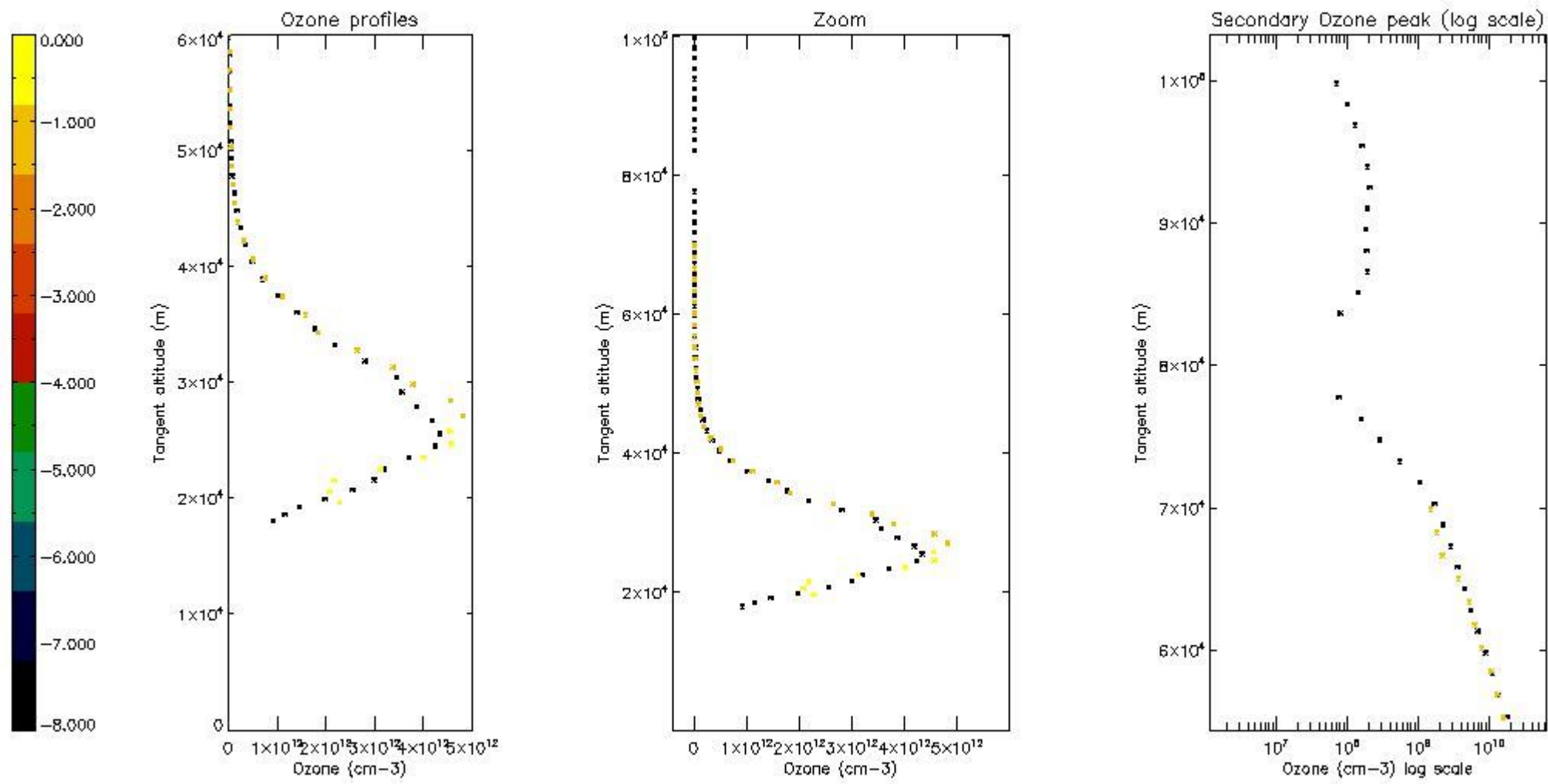
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



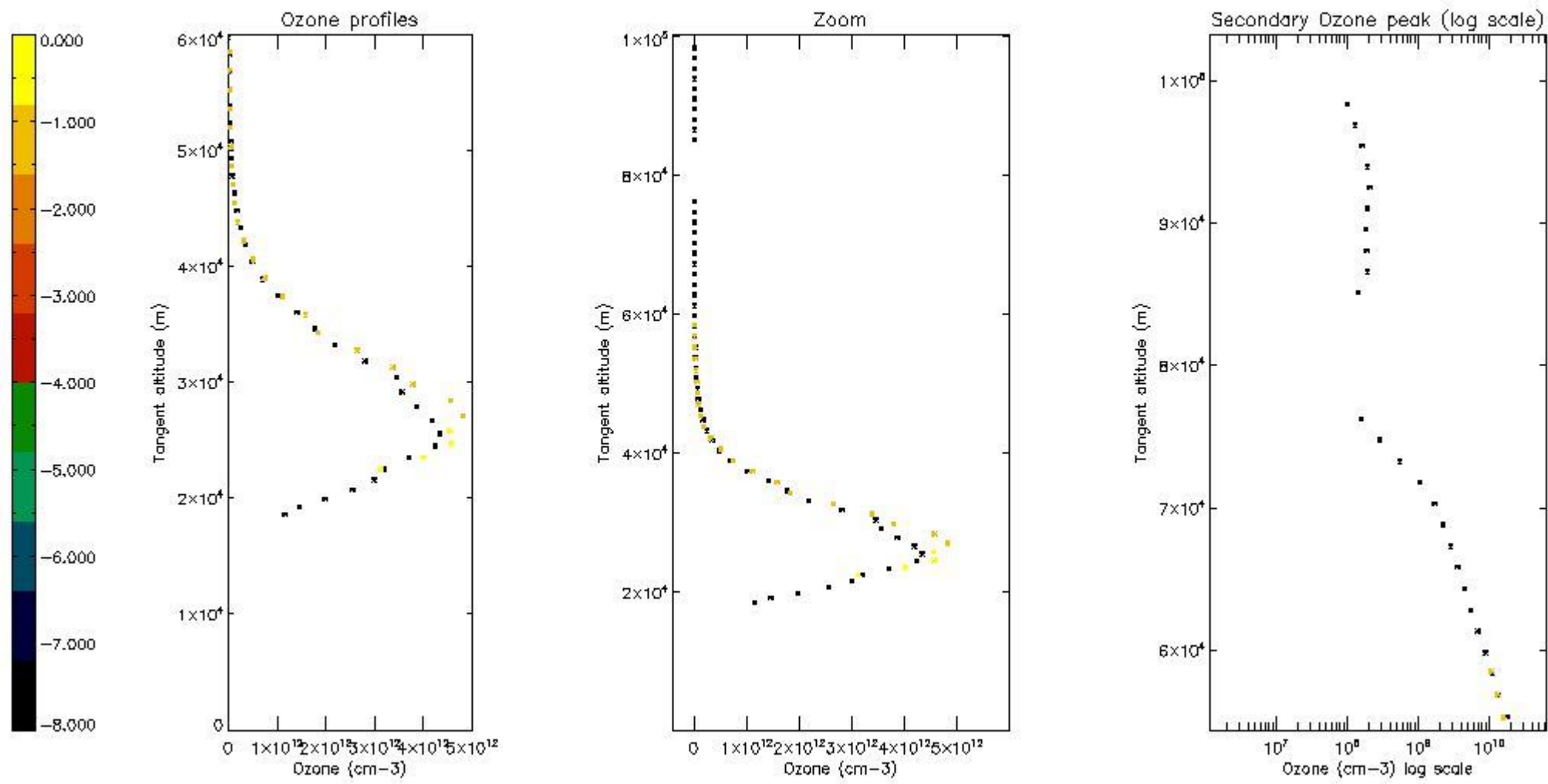
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



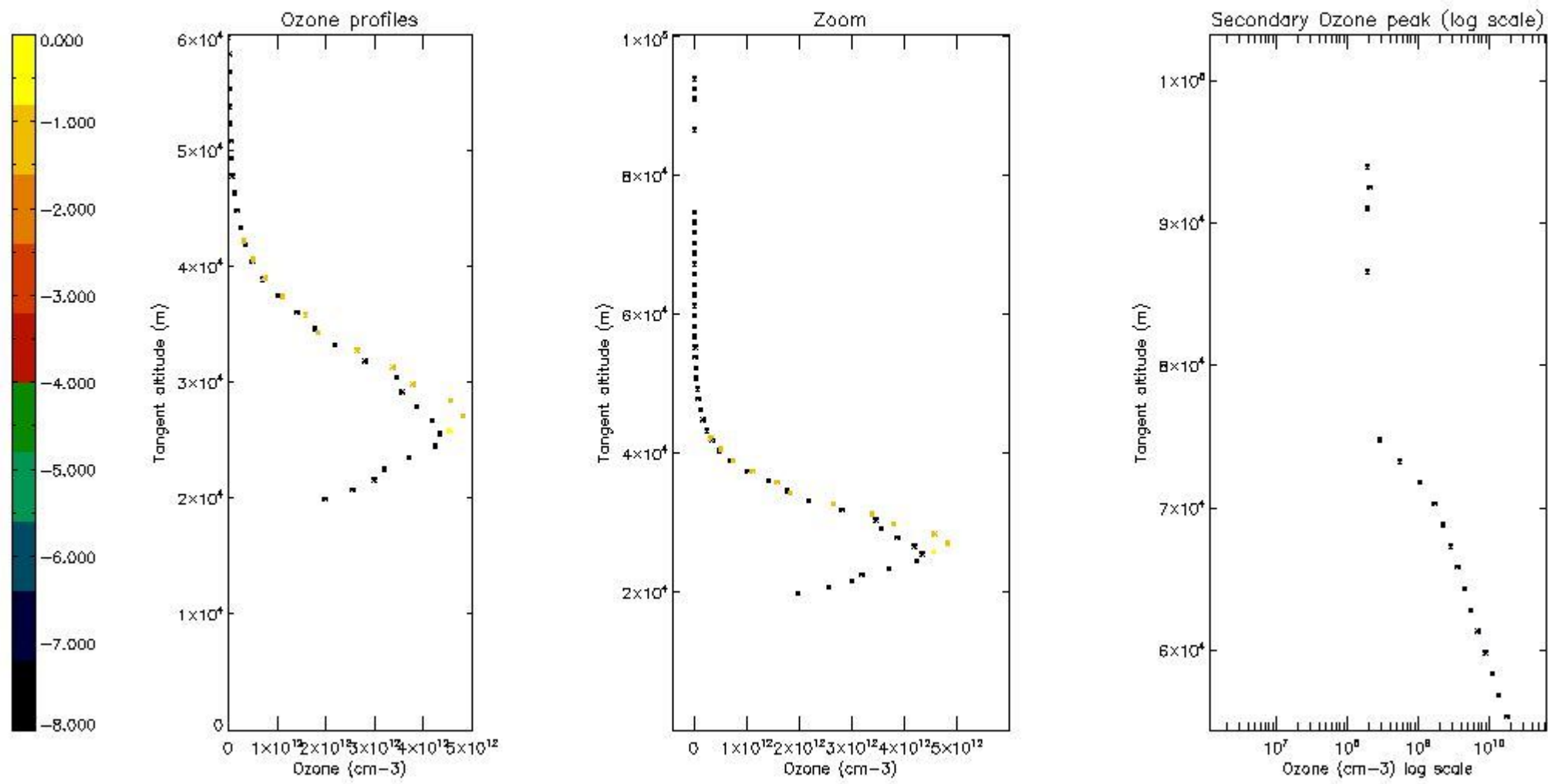
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



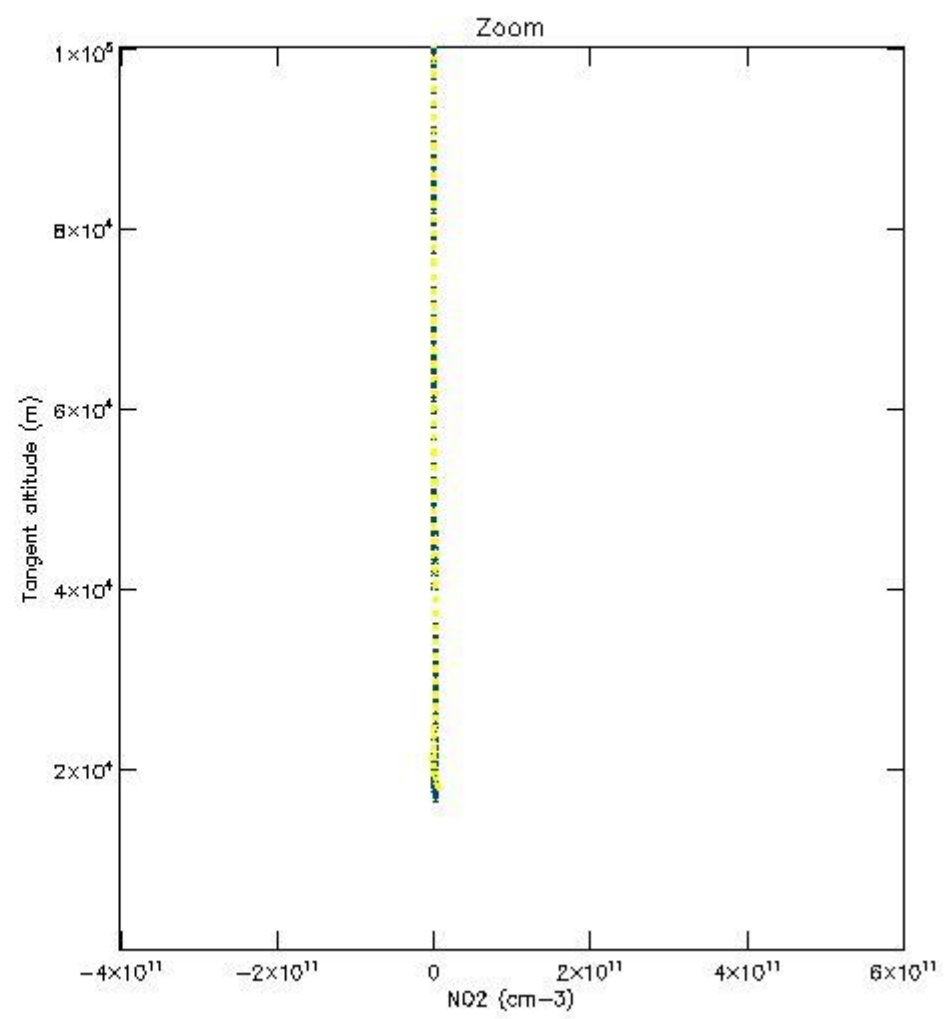
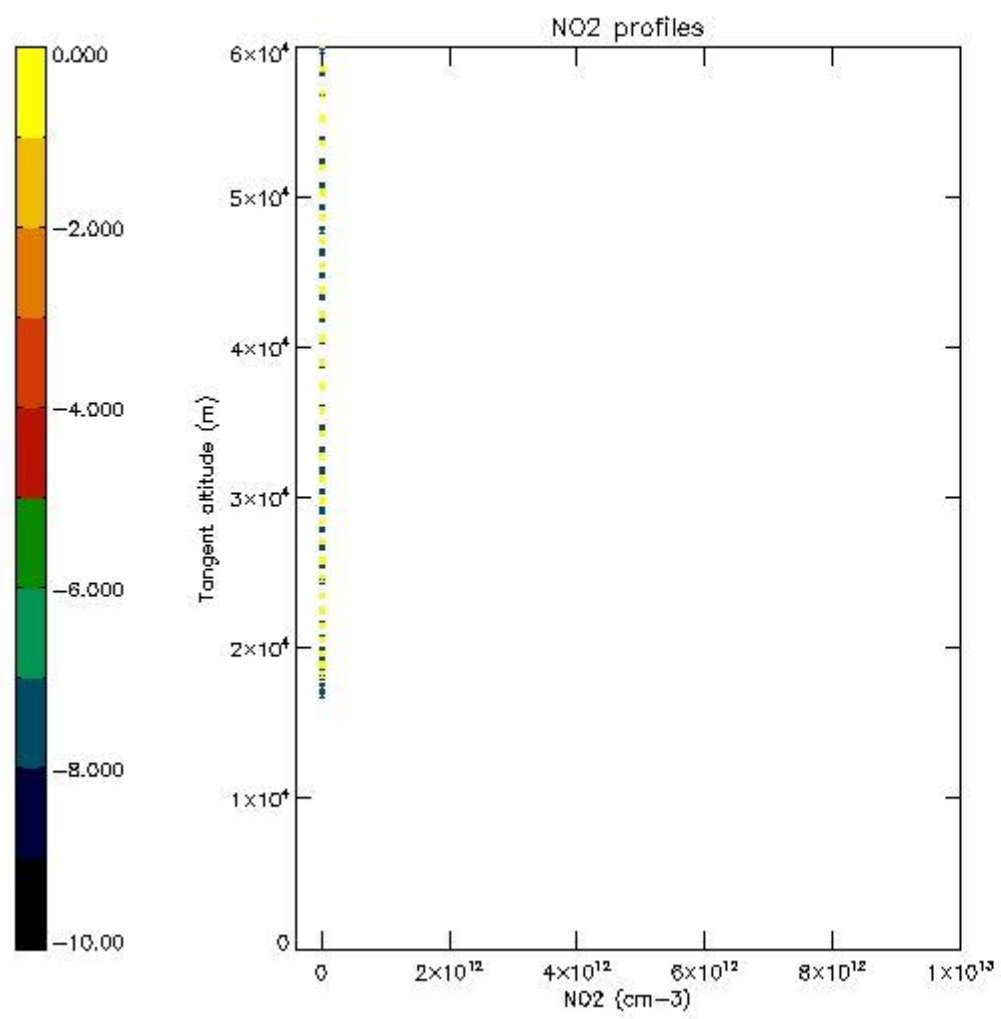
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



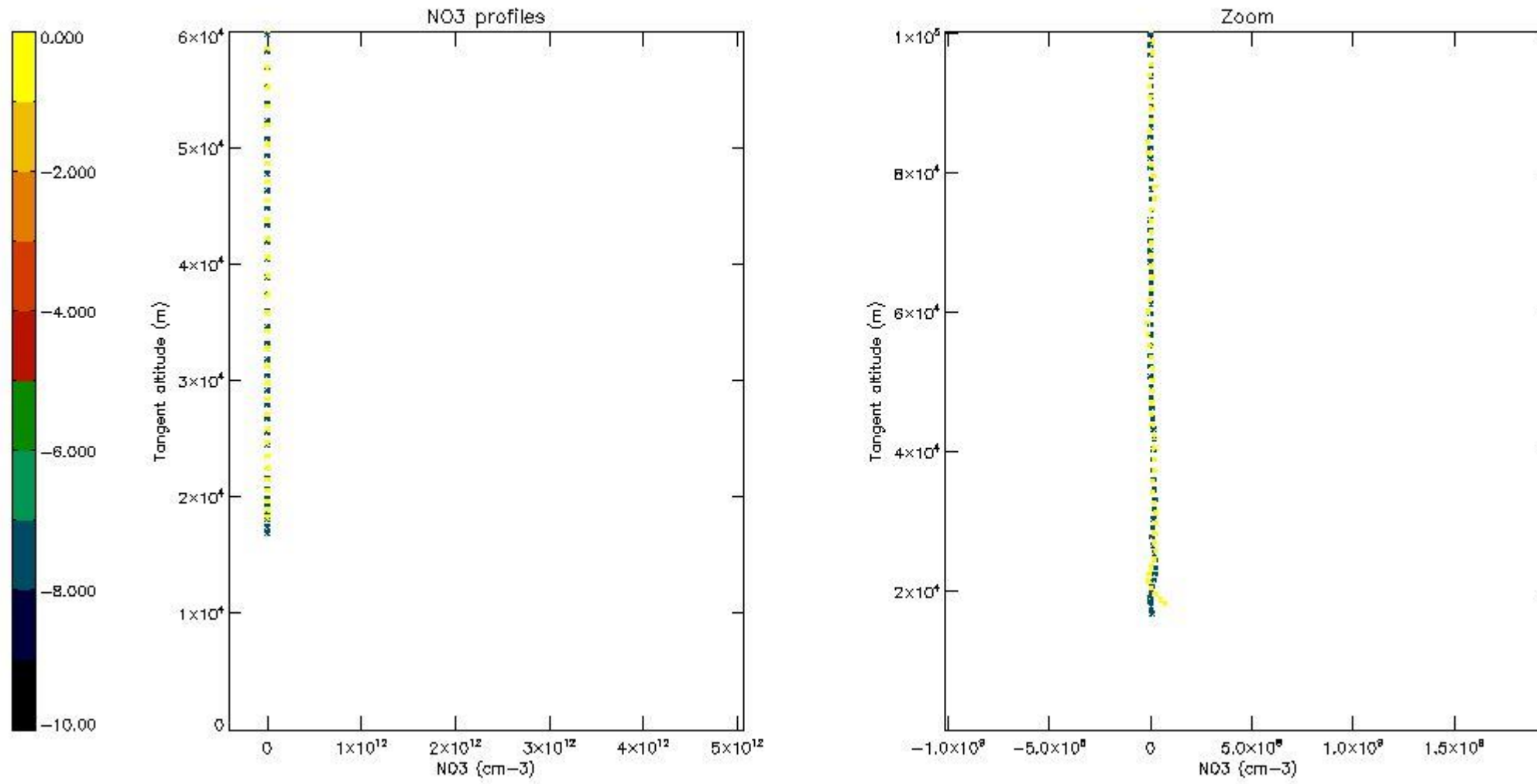
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.



## 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_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	23-JUL-2002 00:02:30
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	23-JUL-2002 00:02:30
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	23-JUL-2002 00:02:30

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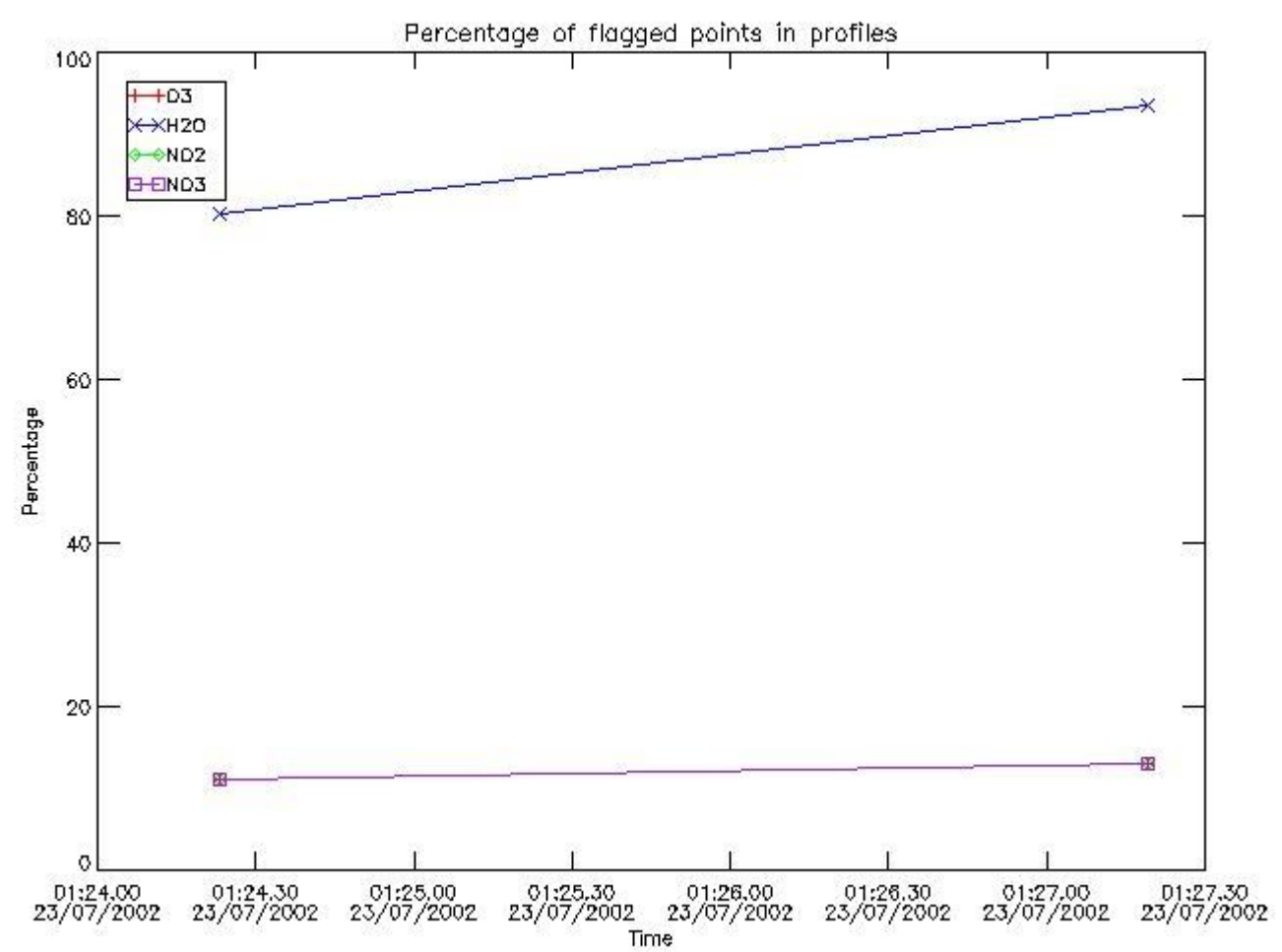
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16	GOM_NL__2PRFIN20020723_014643_000000662008_00003_02061_8798.N1	23-JUL-2002 01:46:43	Bright	66.000	142	49Del Cap	2.8500	8900.0	132	2061	No
17	GOM_NL__2PRFIN20020723_015152_000000382008_00003_02061_8799.N1	23-JUL-2002 01:51:52	Twilight	38.000	154	22Bet Aqr	2.8990	5700.0	76	2061	No
18	GOM_NL__2PRFIN20020723_015519_000000462008_00003_02061_8800.N1	23-JUL-2002 01:55:19	Bright	46.000	11	53Alp Aql	0.76500	8000.0	92	2061	No
19	GOM_NL__2PRFIN20020723_015712_000001242008_00003_02061_8801.N1	23-JUL-2002 01:57:12	Bright	124.00	162	34Alp Aqr	2.9440	5350.0	248	2061	No
20	GOM_NL__2PRFIN20020723_020334_000000392008_00003_02061_8802.N1	23-JUL-2002 02:03:34	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	2061	No
21	GOM_NL__2PRFIN20020723_020617_000000422008_00003_02061_8803.N1	23-JUL-2002 02:06:17	Bright	42.000	144	18Del Cyg	2.8600	11000.	84	2061	No
22	GOM_NL__2PRFIN20020723_020806_000000462008_00003_02061_8804.N1	23-JUL-2002 02:08:06	Bright	46.000	19	50Alp Cyg	1.2460	10500.	92	2061	No
23	GOM_NL__2PRFIN20020723_021044_000000382008_00003_02061_8805.N1	23-JUL-2002 02:10:44	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	2061	No
24	GOM_NL__2PRFIN20020723_021316_000000472008_00003_02061_8806.N1	23-JUL-2002 02:13:16	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	2061	No
25	GOM_NL__2PRFIN20020723_021458_000000352008_00003_02061_8807.N1	23-JUL-2002 02:14:58	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	2061	No
26	GOM_NL__2PRFIN20020723_021807_000000392008_00003_02061_8808.N1	23-JUL-2002 02:18:07	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	2061	No
27	GOM_NL__2PRFIN20020723_022027_000000542008_00003_02061_8809.N1	23-JUL-2002 02:20:27	Bright	54.000	74	11Bet Cas	2.2680	6600.0	108	2061	No
28	GOM_NL__2PRFIN20020723_022207_000000492008_00003_02061_8810.N1	23-JUL-2002 02:22:07	Bright	49.000	76	27Gam Cas	2.3000	30000.	98	2061	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.

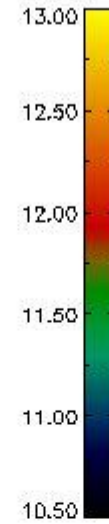
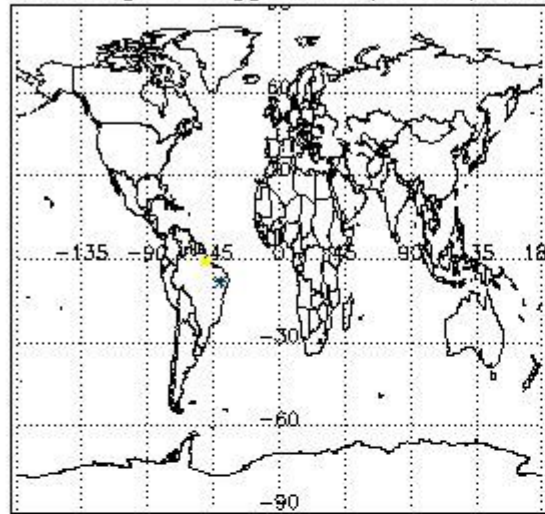
### 3.1 Plot quality information per product (time dependant)



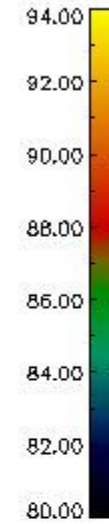
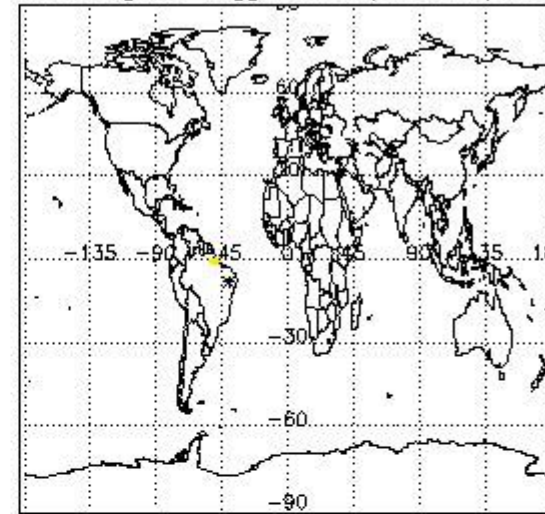


3.2 Plot quality information per product (world map)

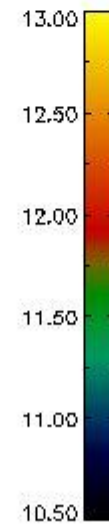
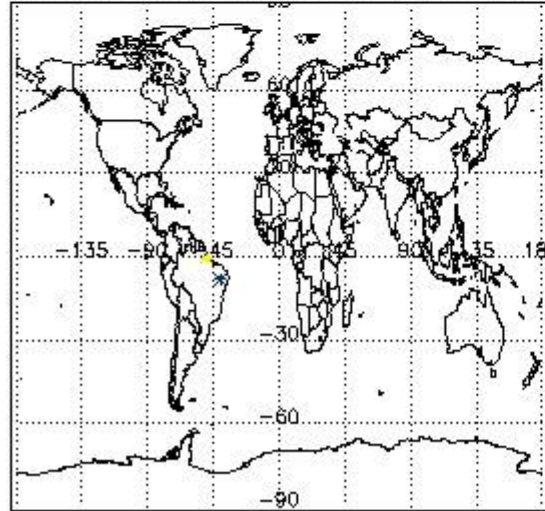
Percentage of flagged data per O3 profile



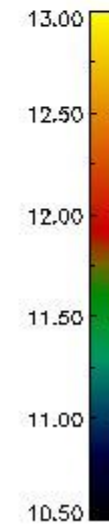
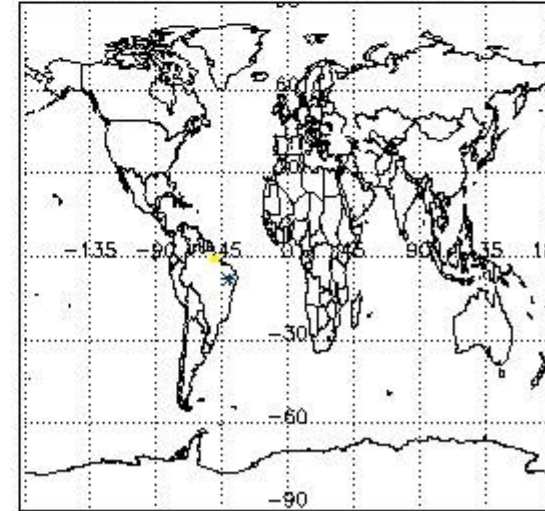
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

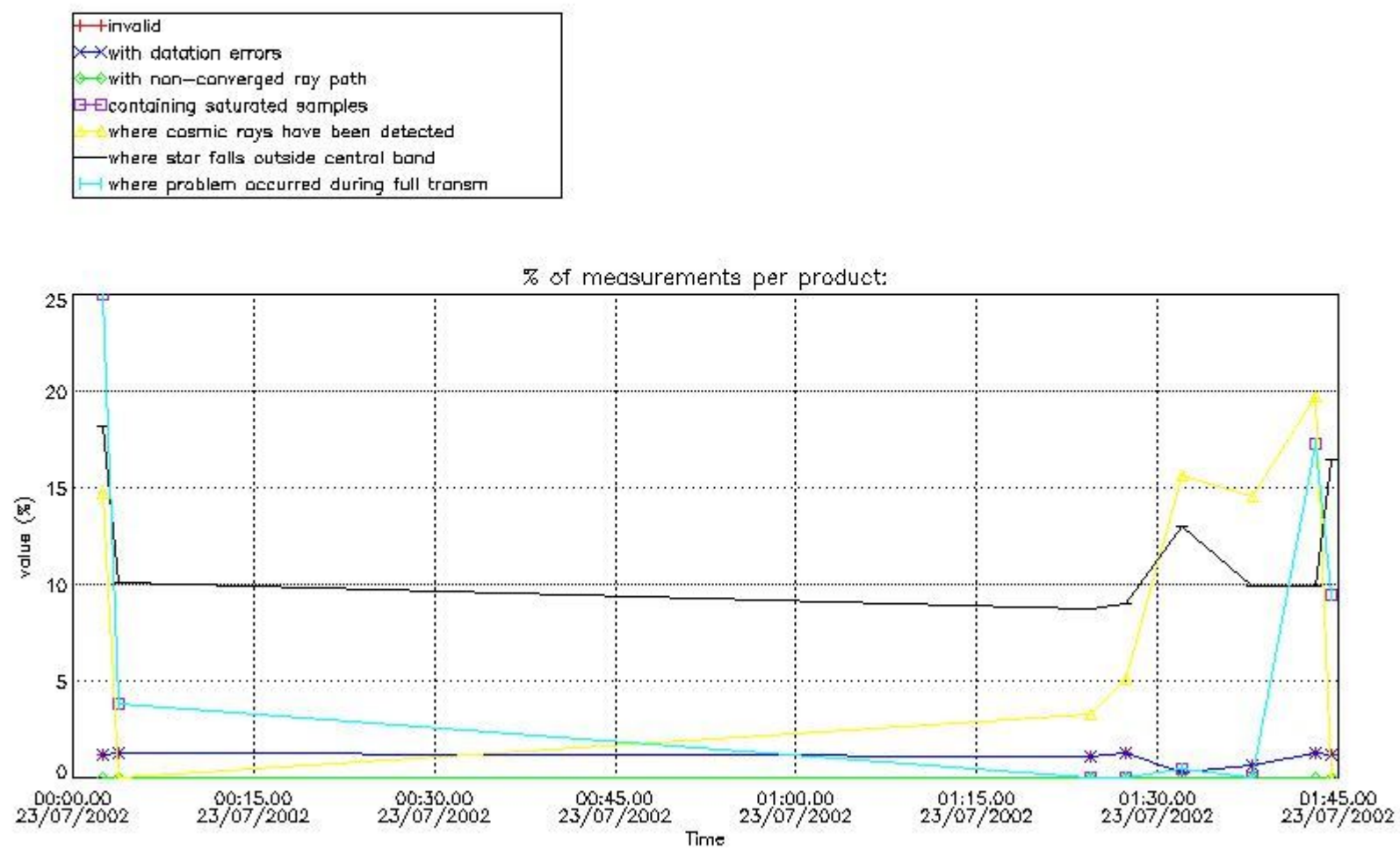


#### 4. Level 1 quality information per product

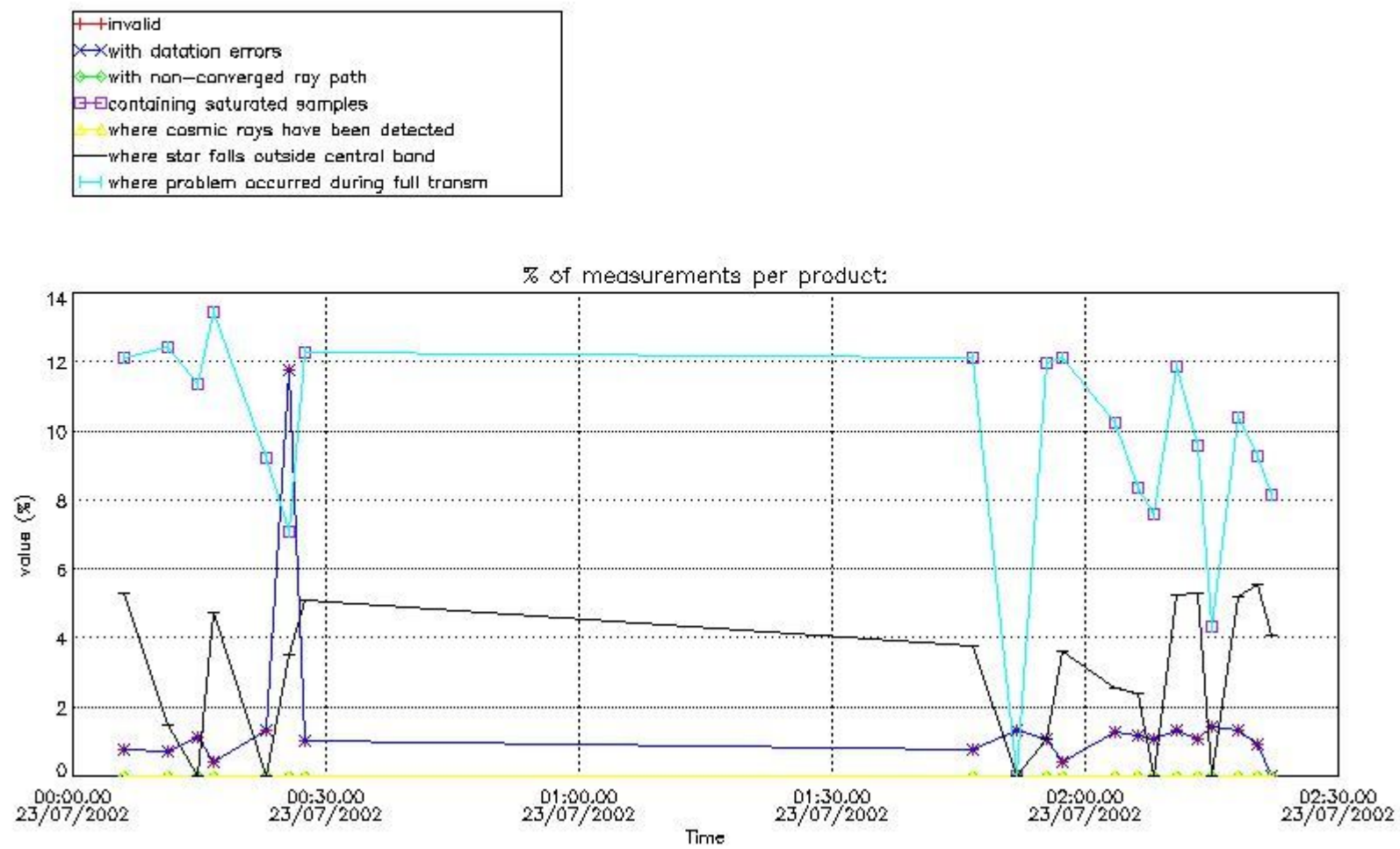
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

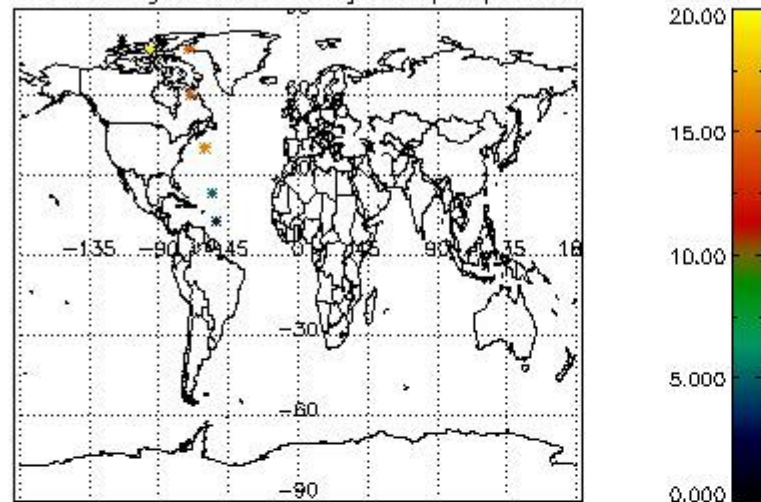


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

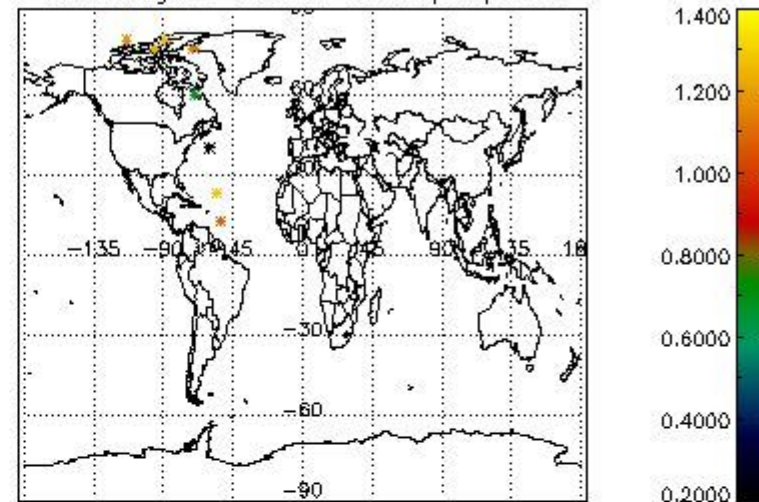


4.2 Plot quality information per product coming from level 1b processing (world map)  
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

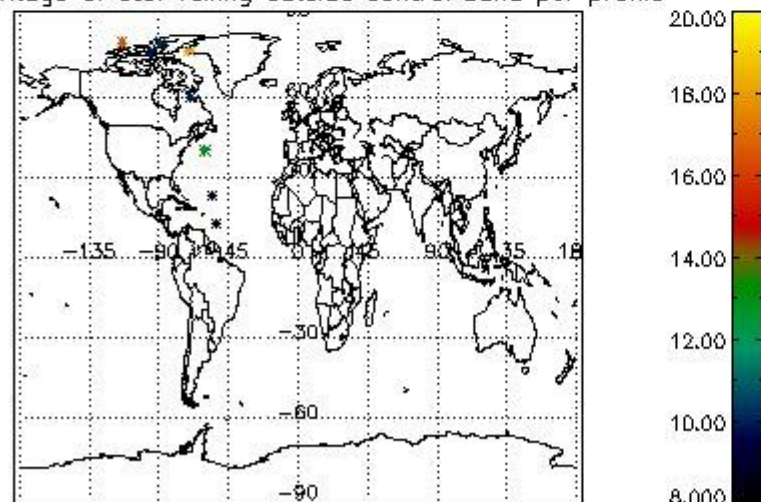
Percentage of cosmic ray hits per profile



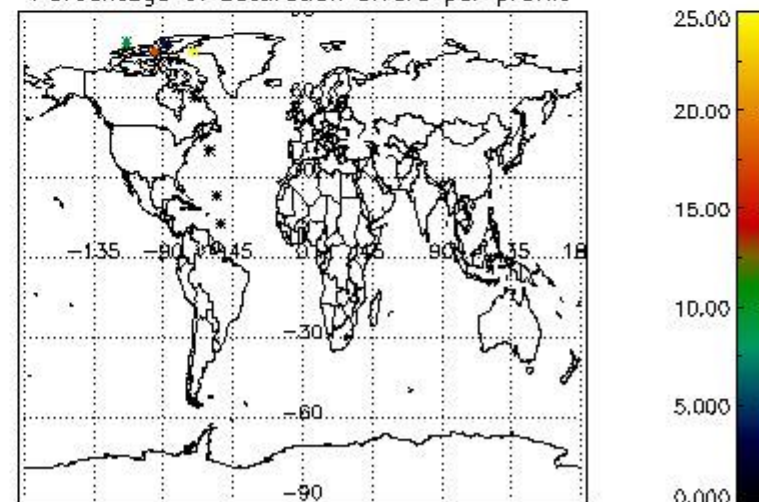
Percentage of datation errors per profile



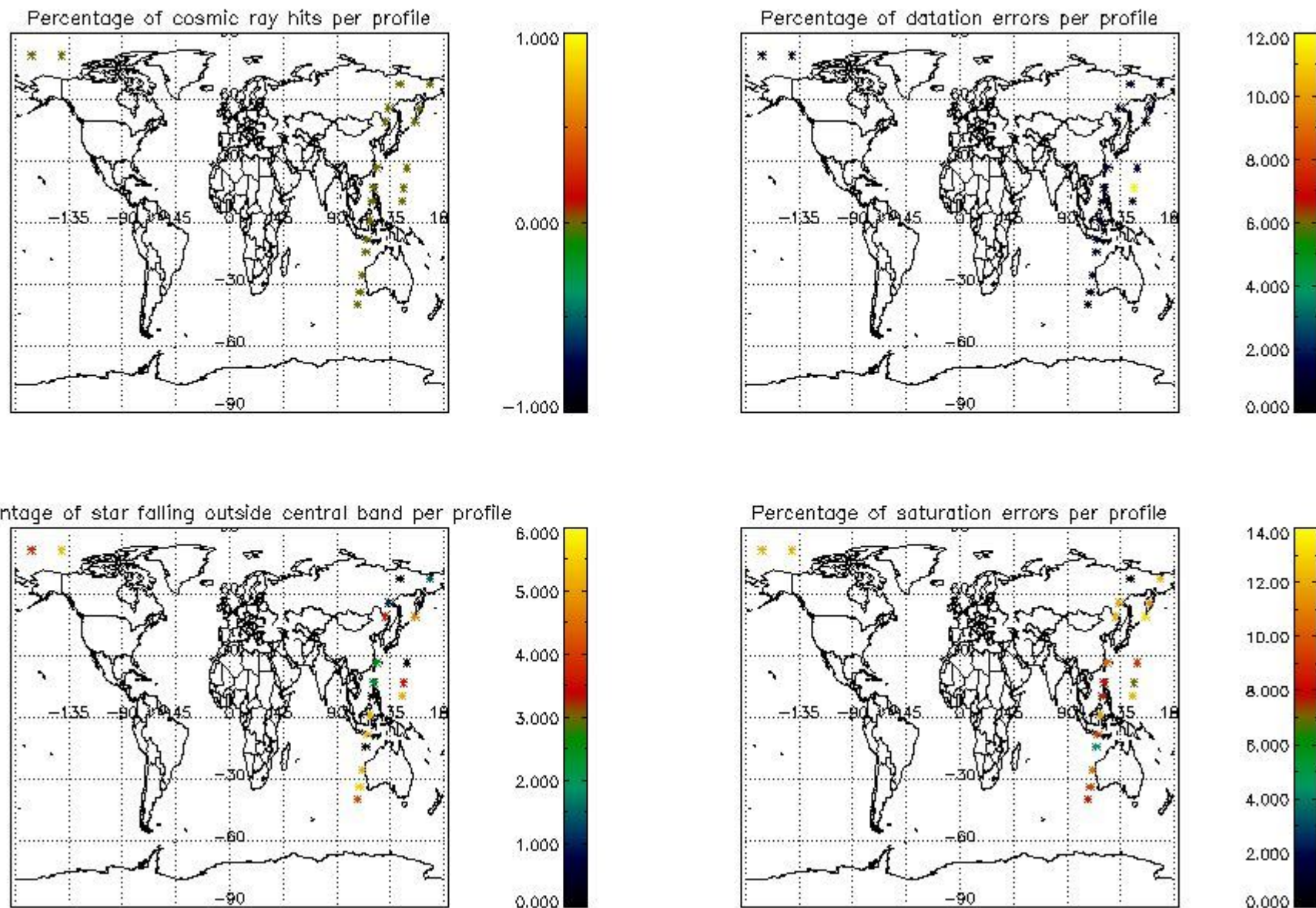
Percentage of star falling outside central band per profile



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

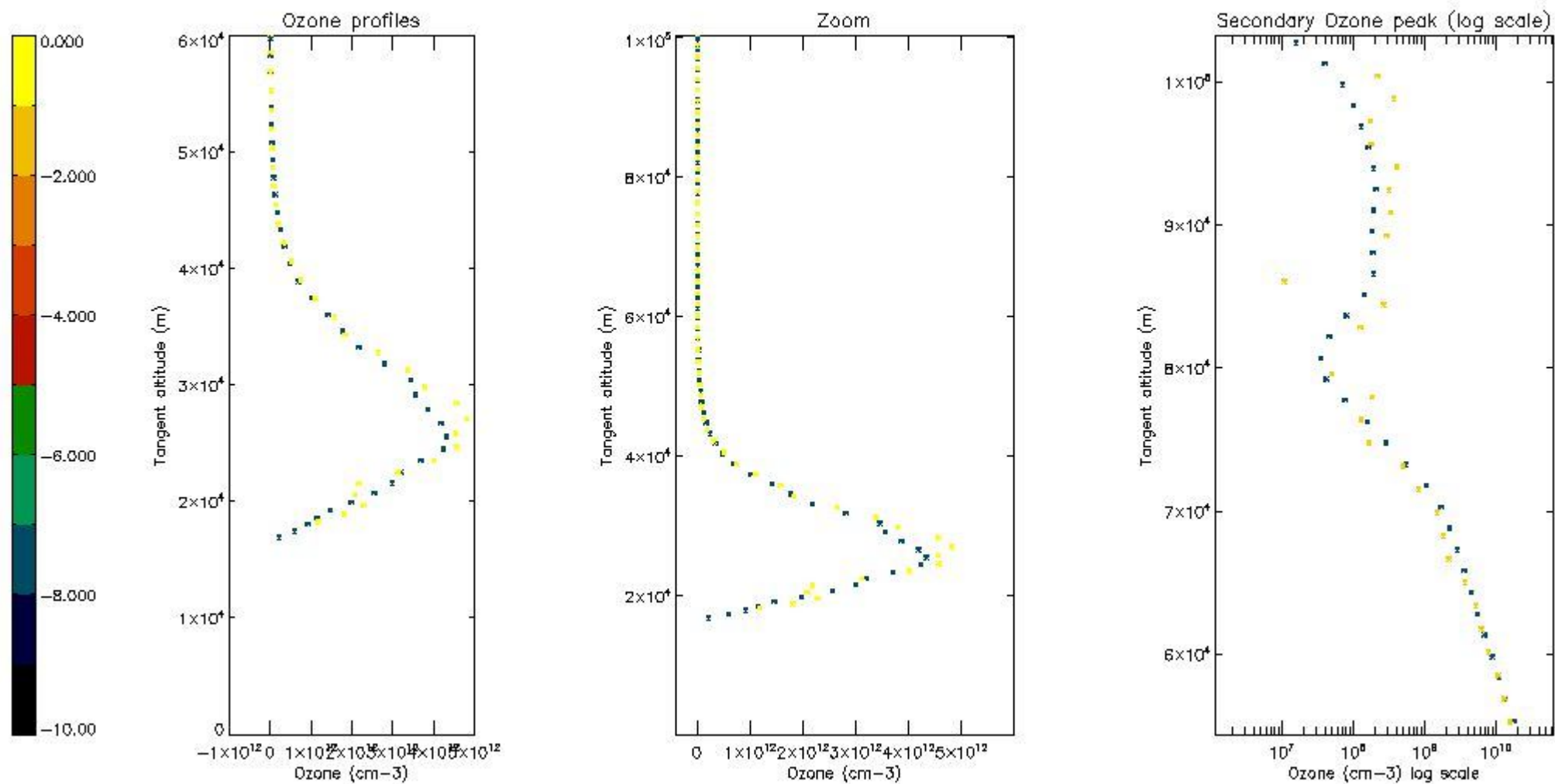
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	5
STD < 20	3

STD < 10	3
STD < 5	2

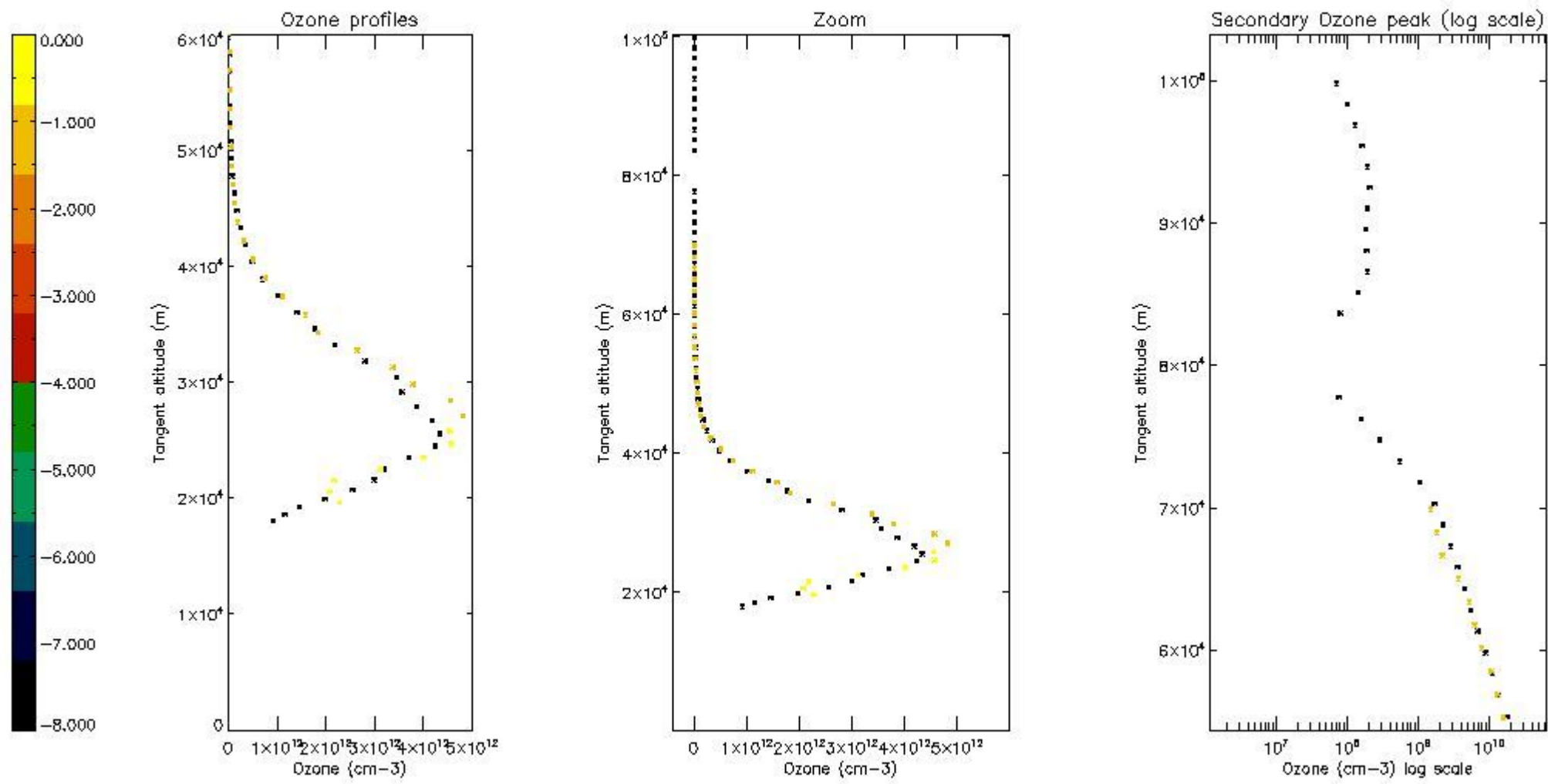
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

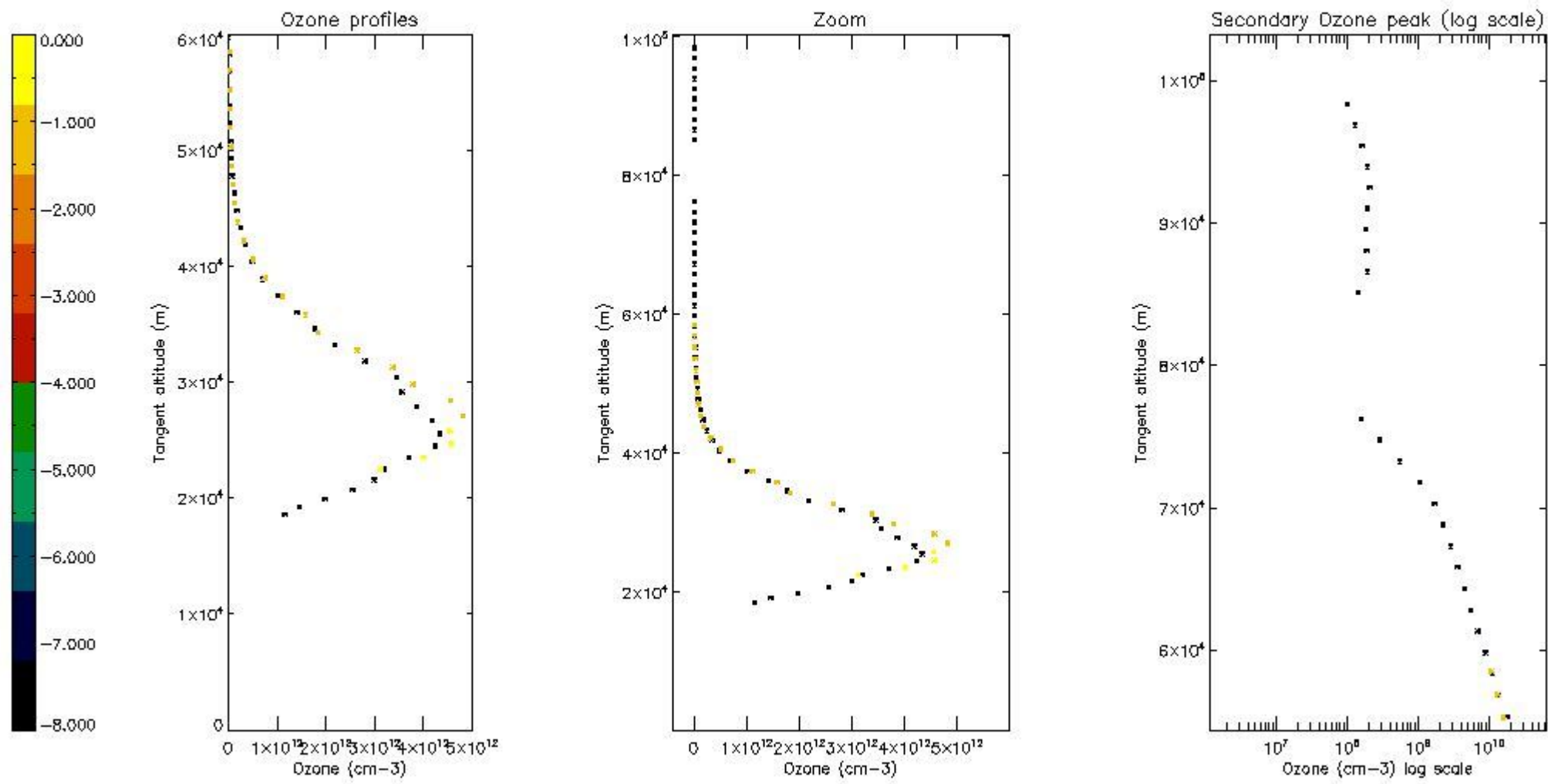
The colorbar represents the latitude.



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

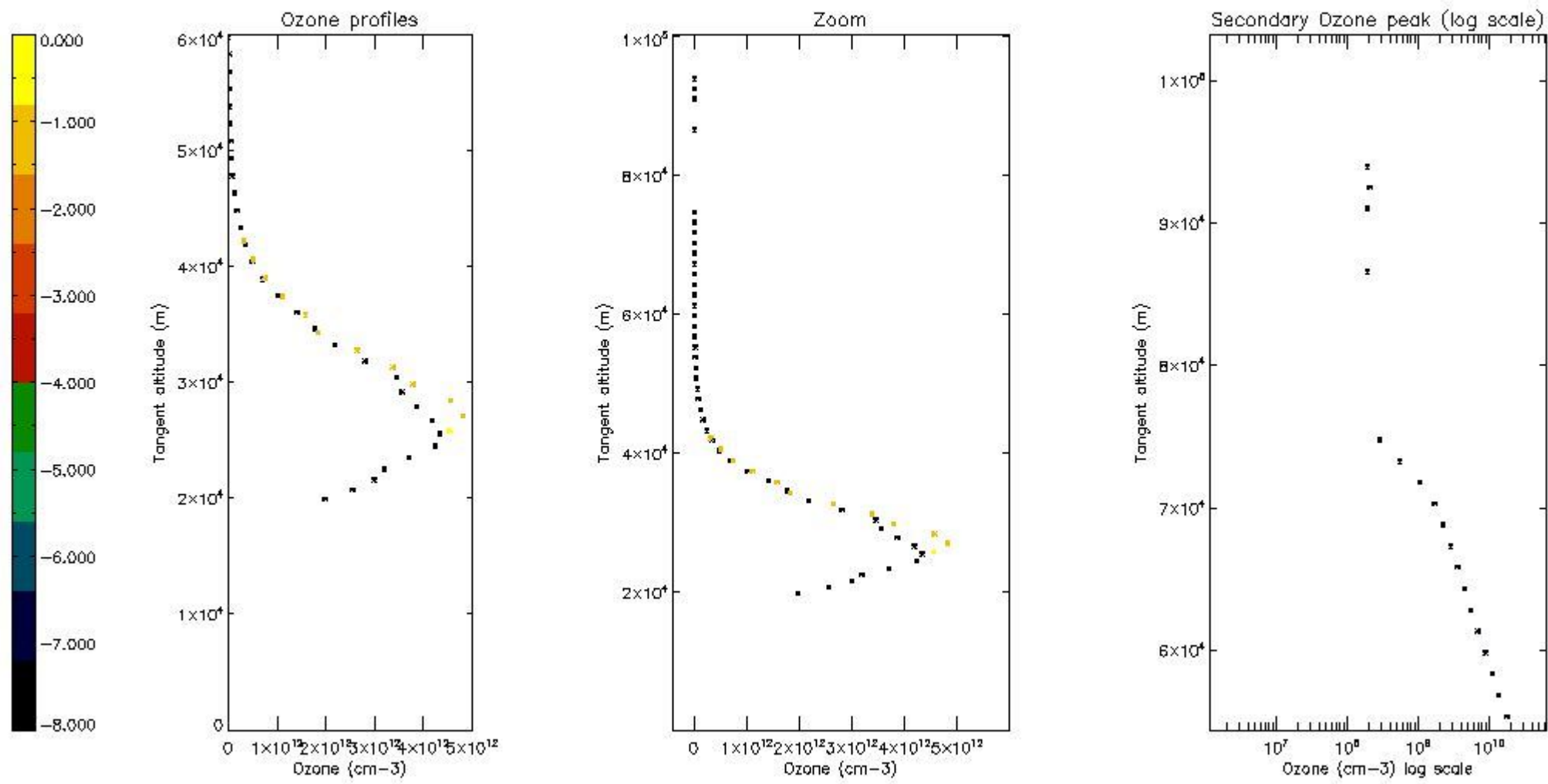
The colorbar represents the latitude.





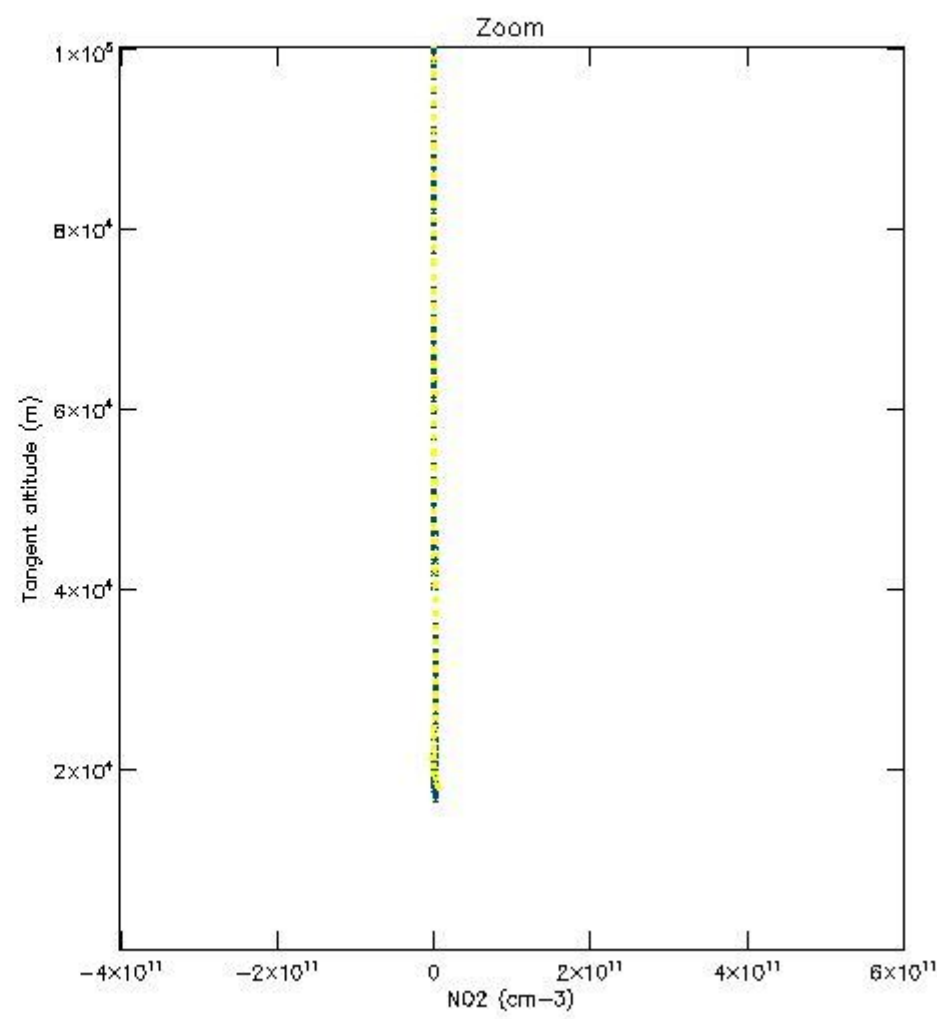
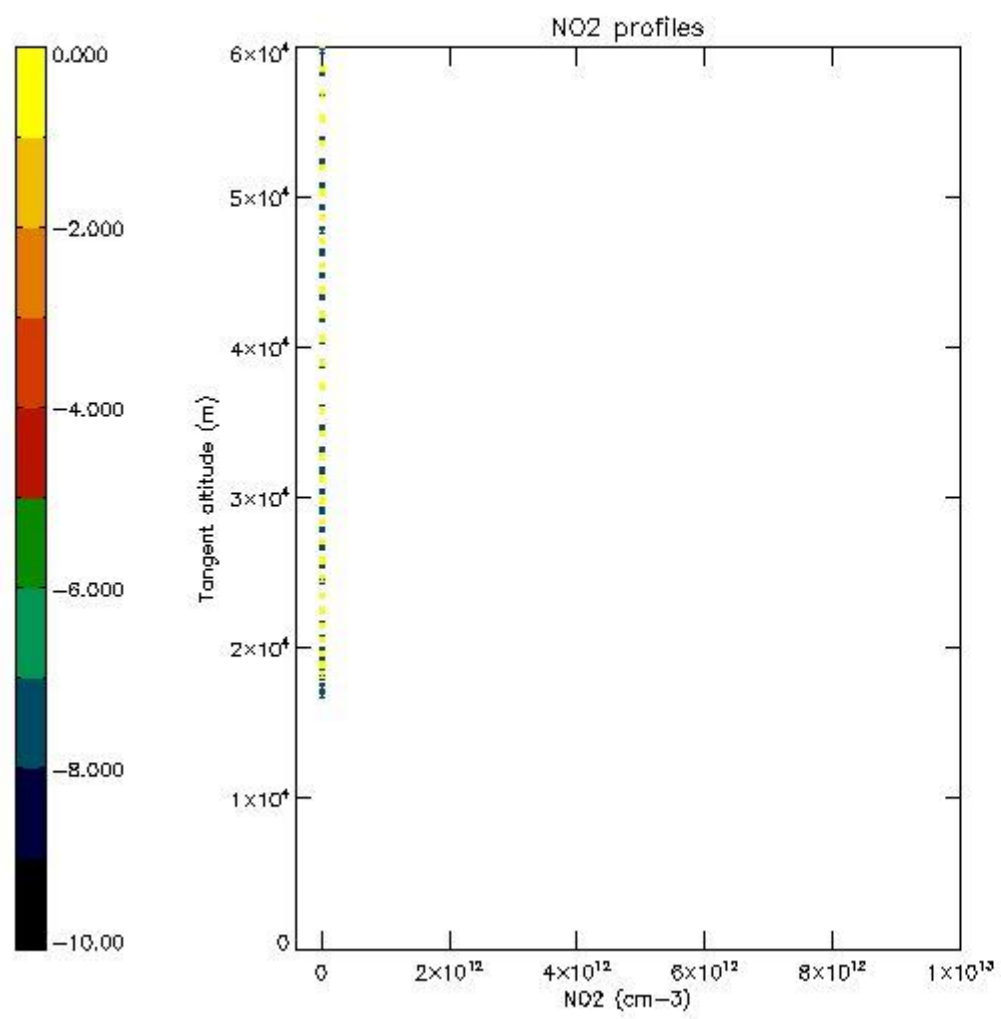
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



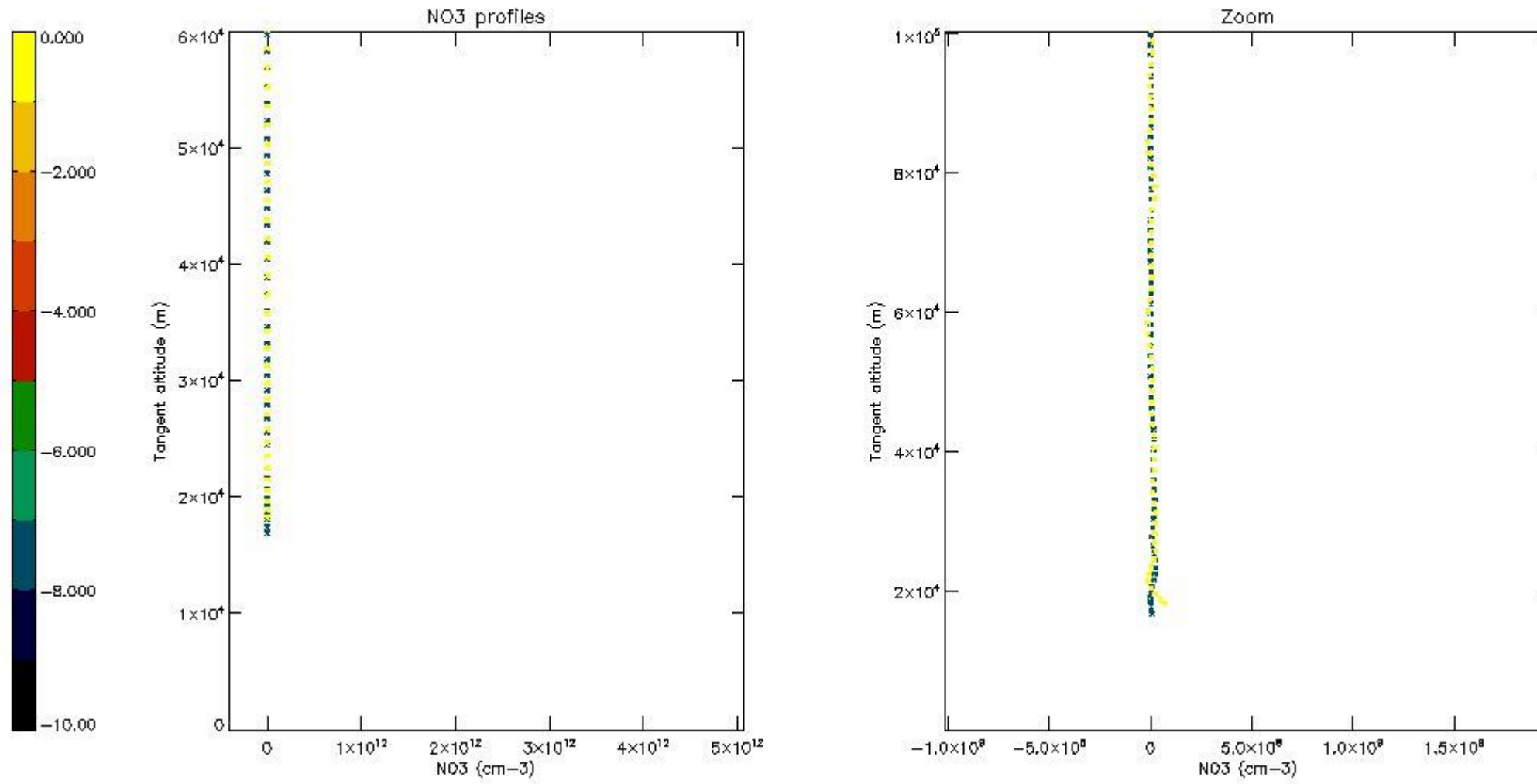
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

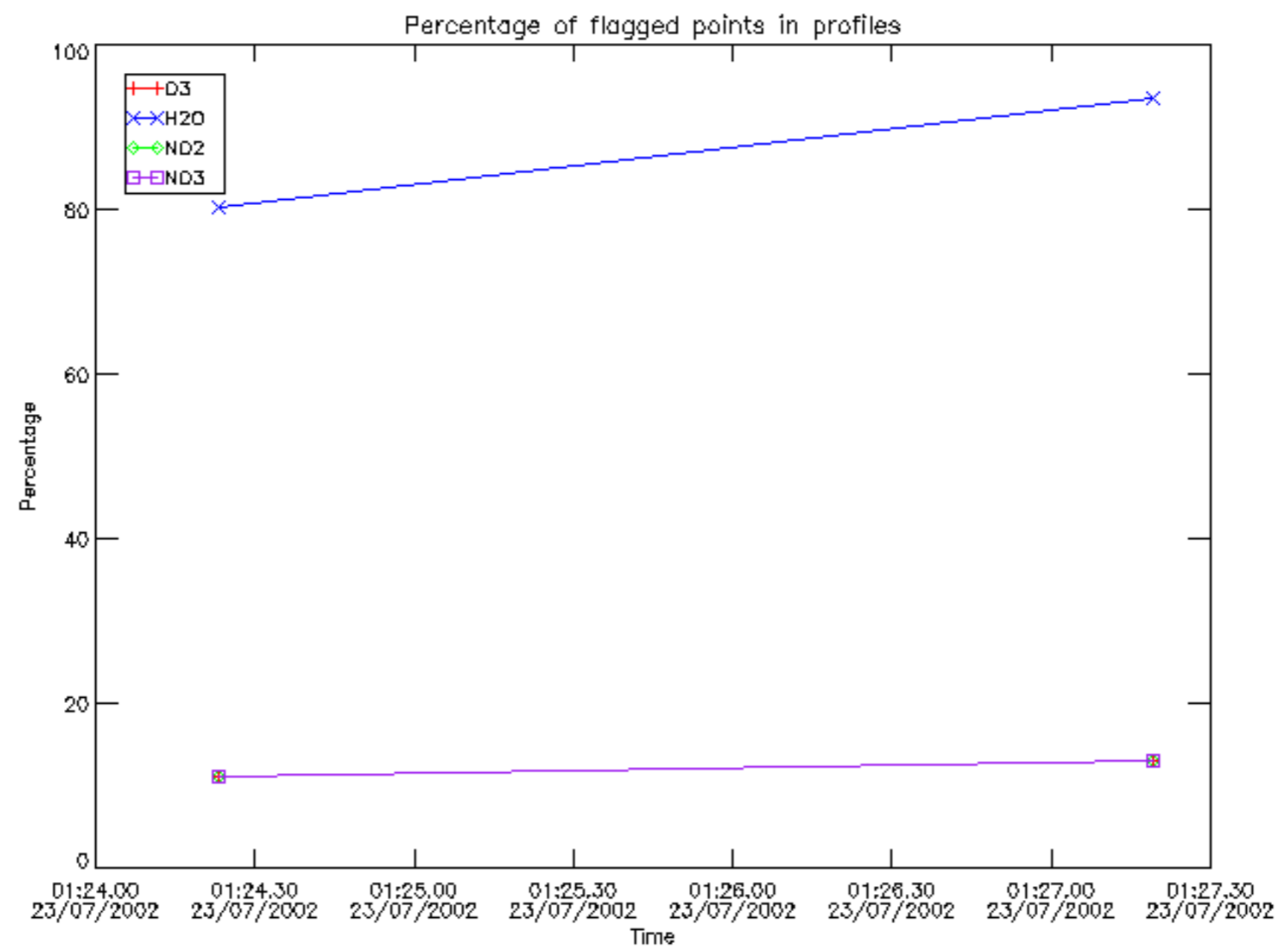
The colorbar represents the latitude.



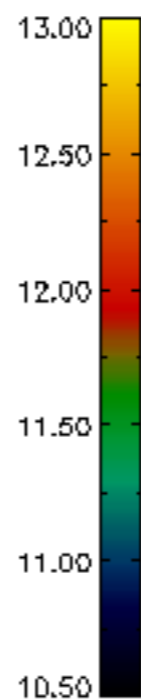
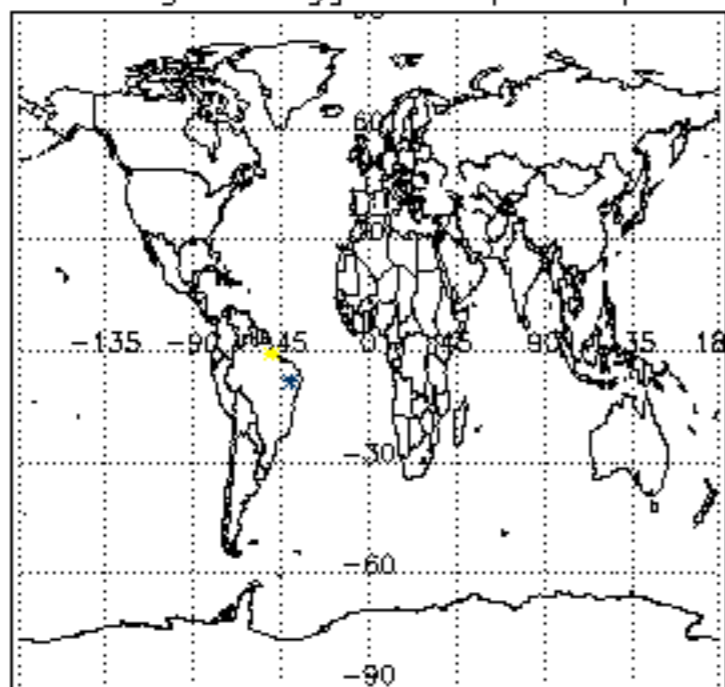
## 6. Auxiliary Data Files used for the production reported in section 2

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.

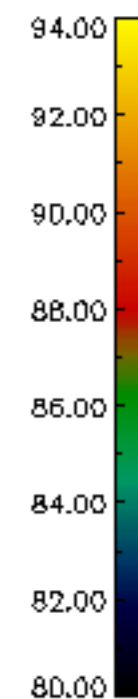
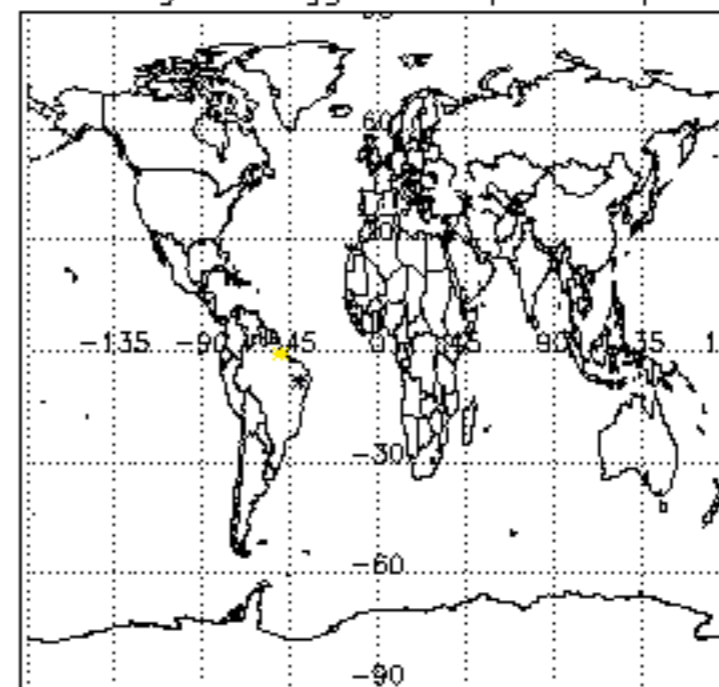
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	23-JUL-2002 00:02:30
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	23-JUL-2002 00:02:30
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	23-JUL-2002 00:02:30



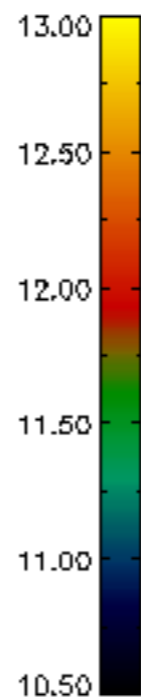
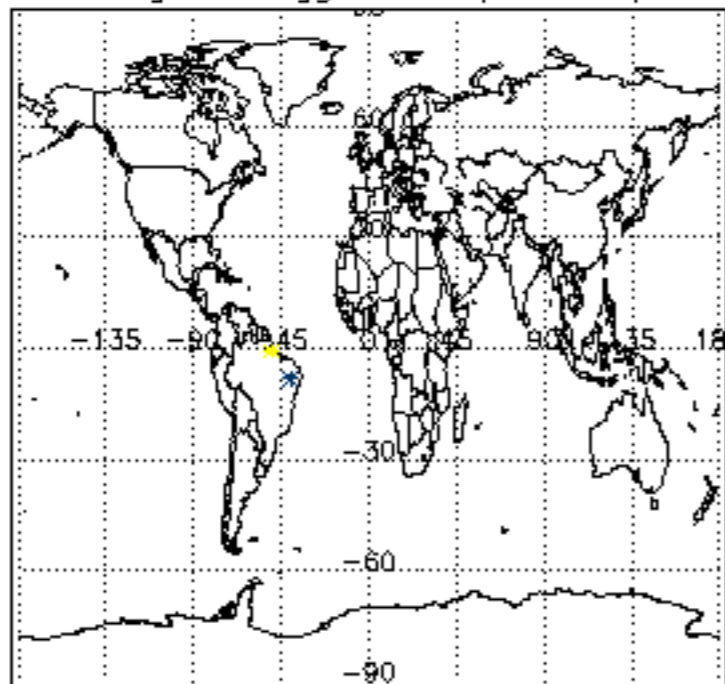
Percentage of flagged data per D3 profile



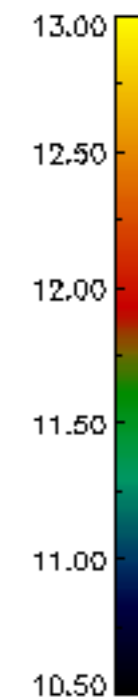
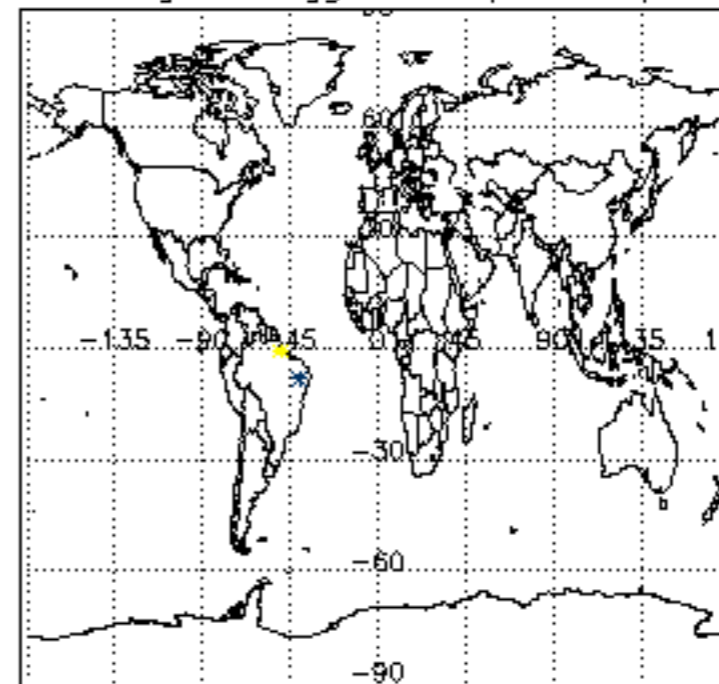
Percentage of flagged data per H2O profile

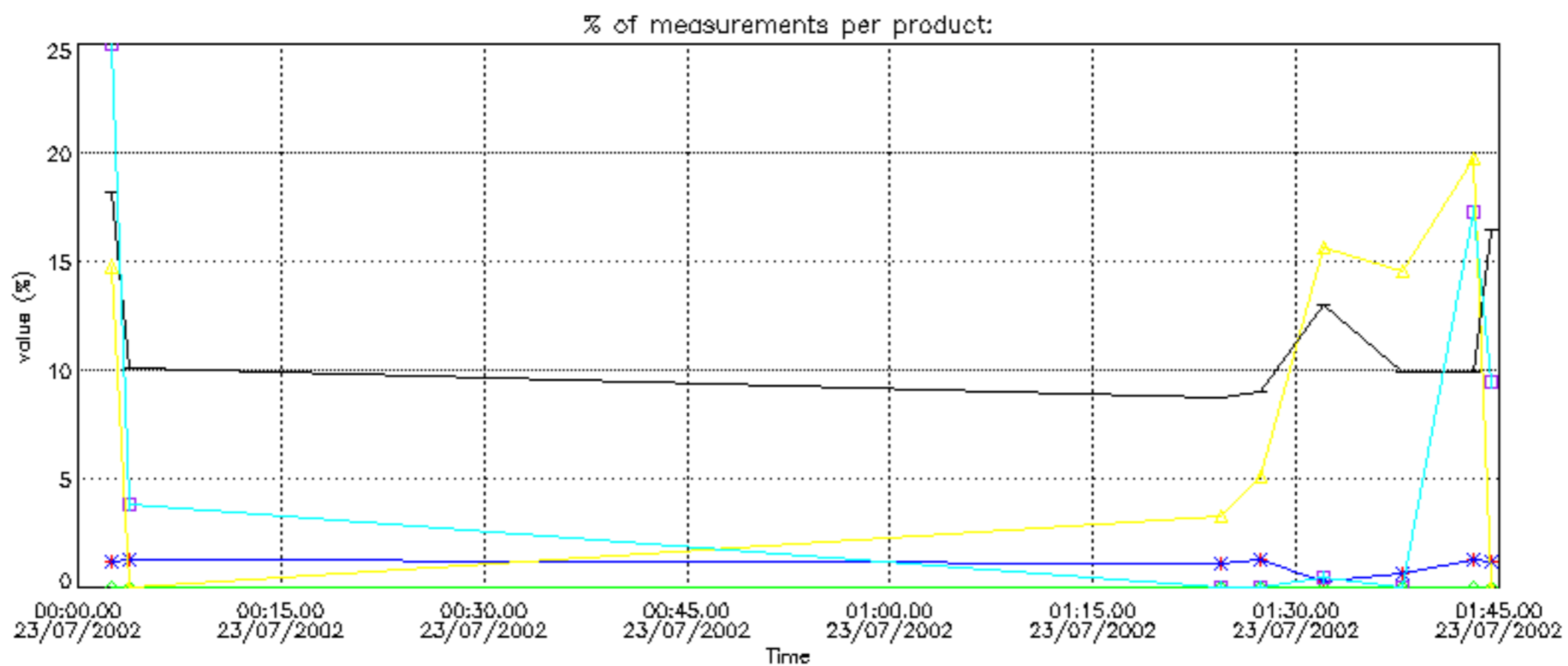
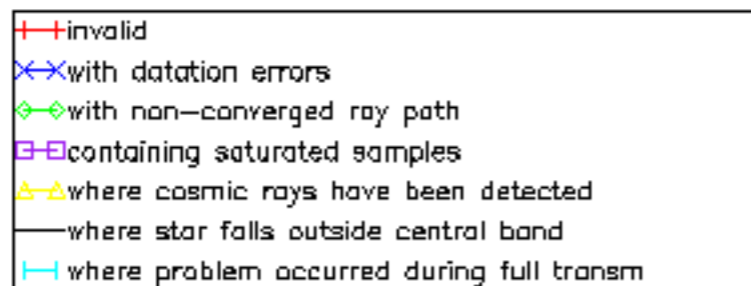


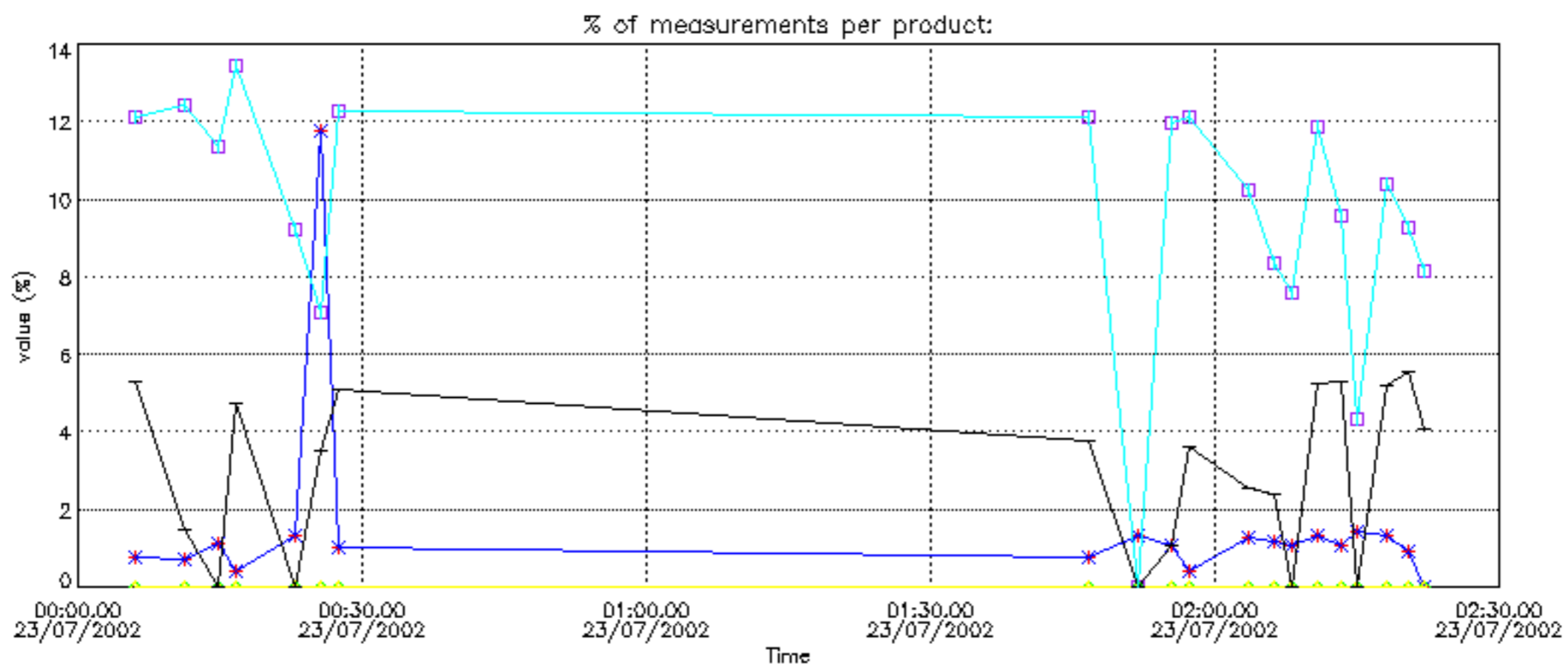
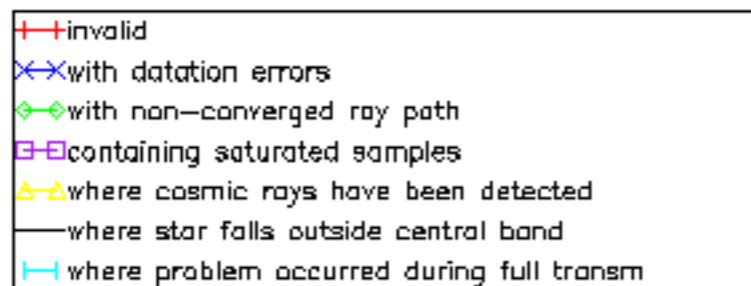
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

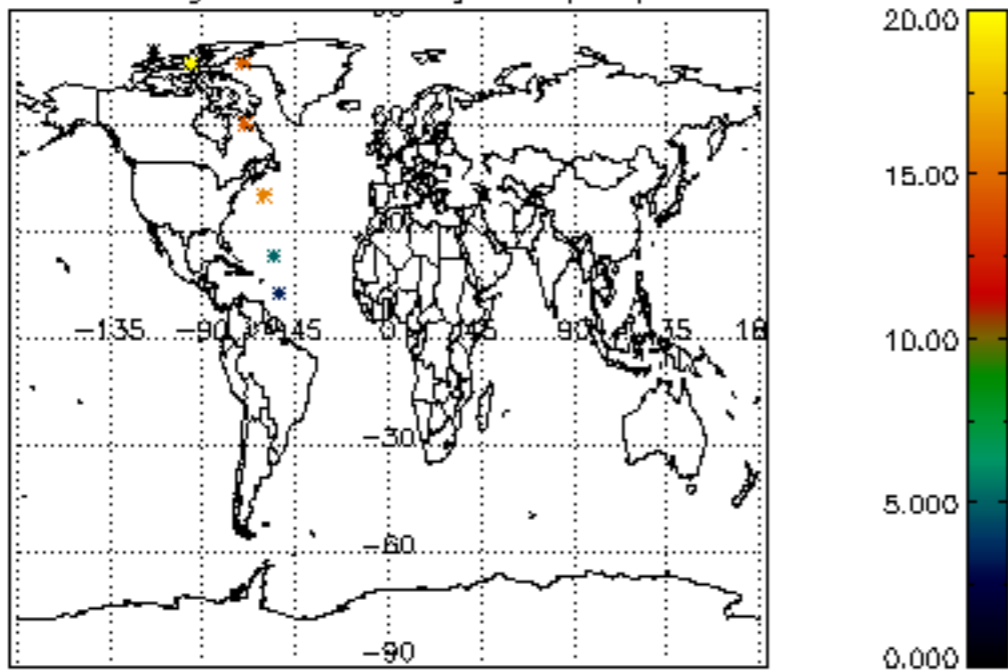




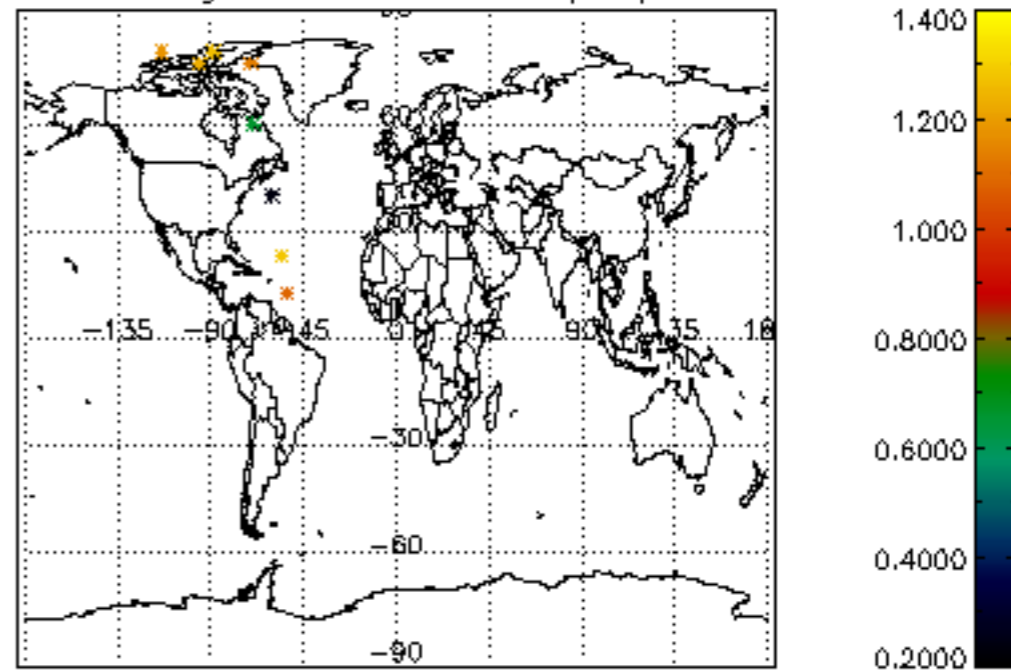




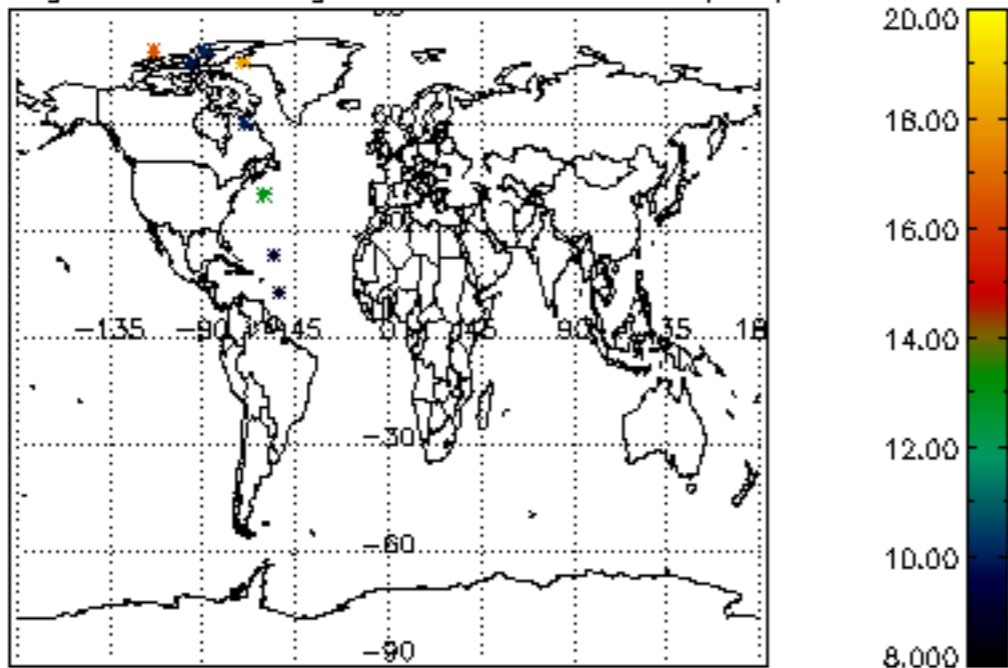
Percentage of cosmic ray hits per profile



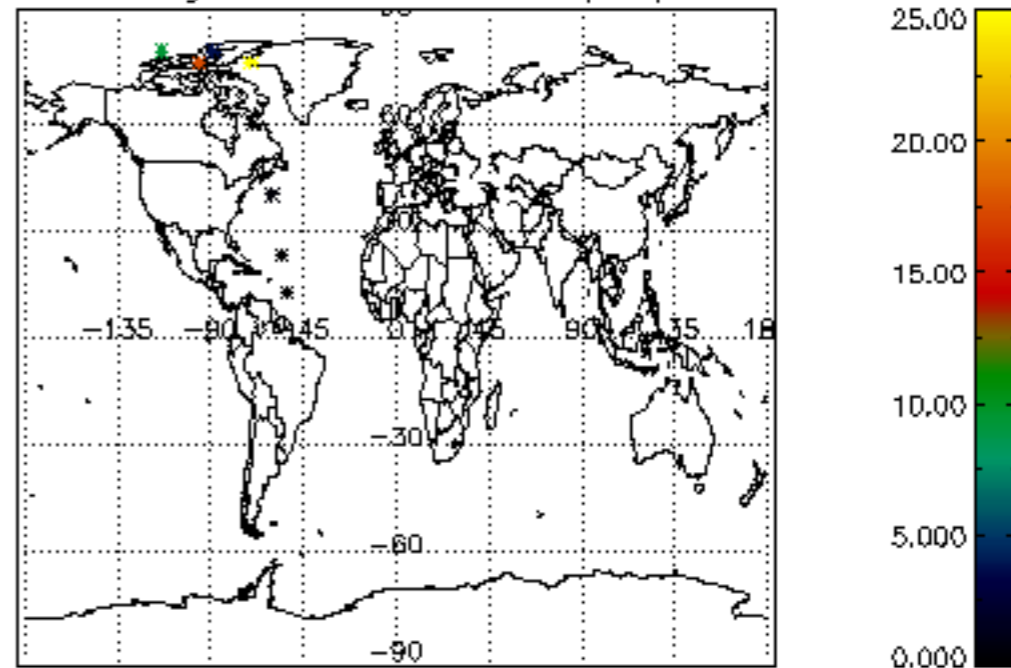
Percentage of datation errors per profile



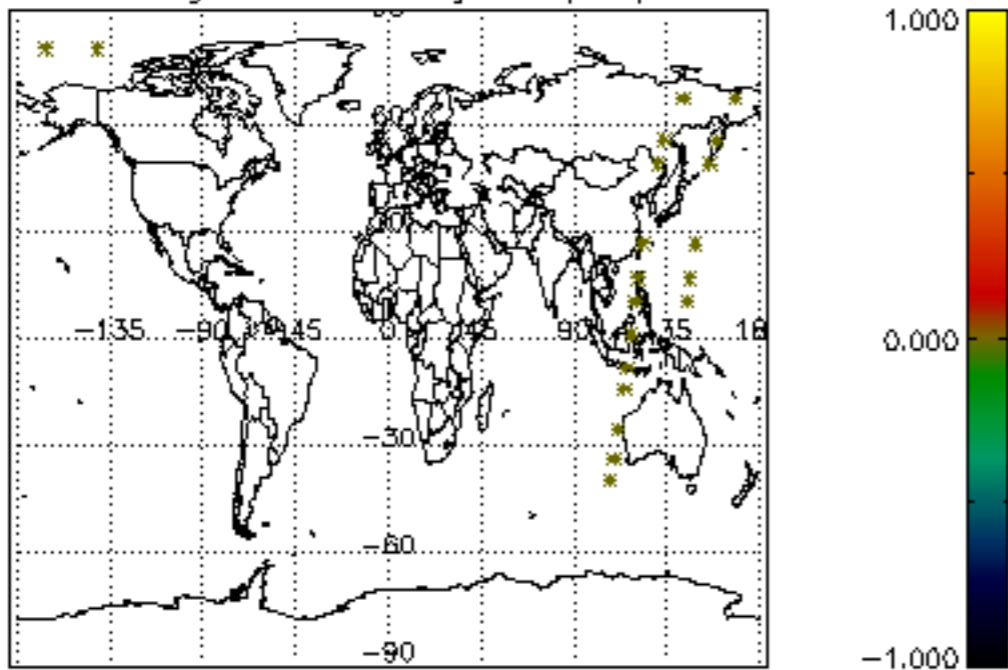
Percentage of star falling outside central band per profile



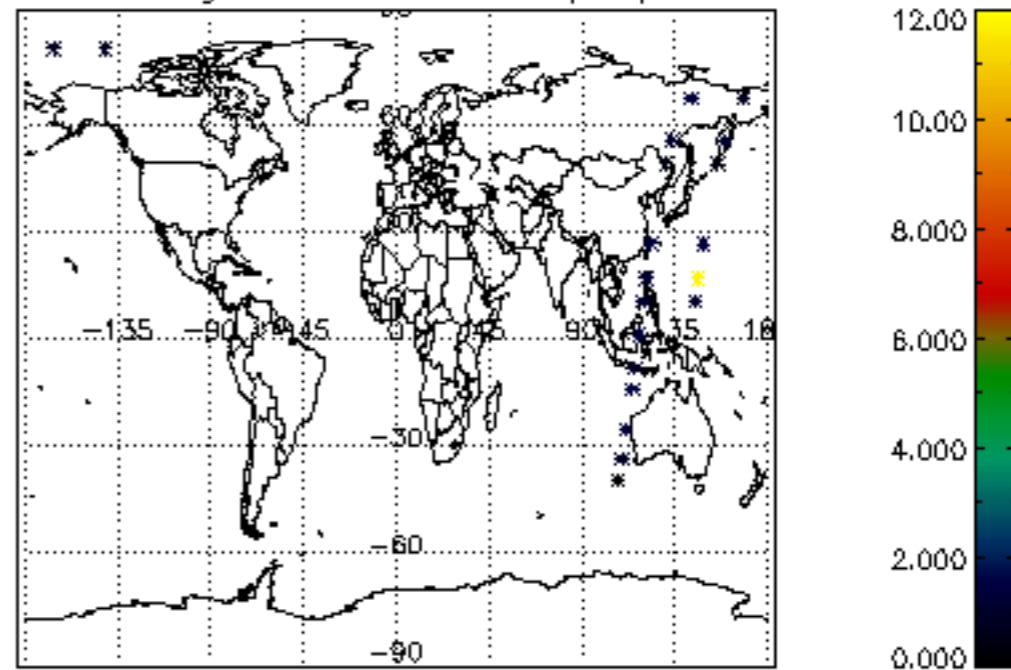
Percentage of saturation errors per profile



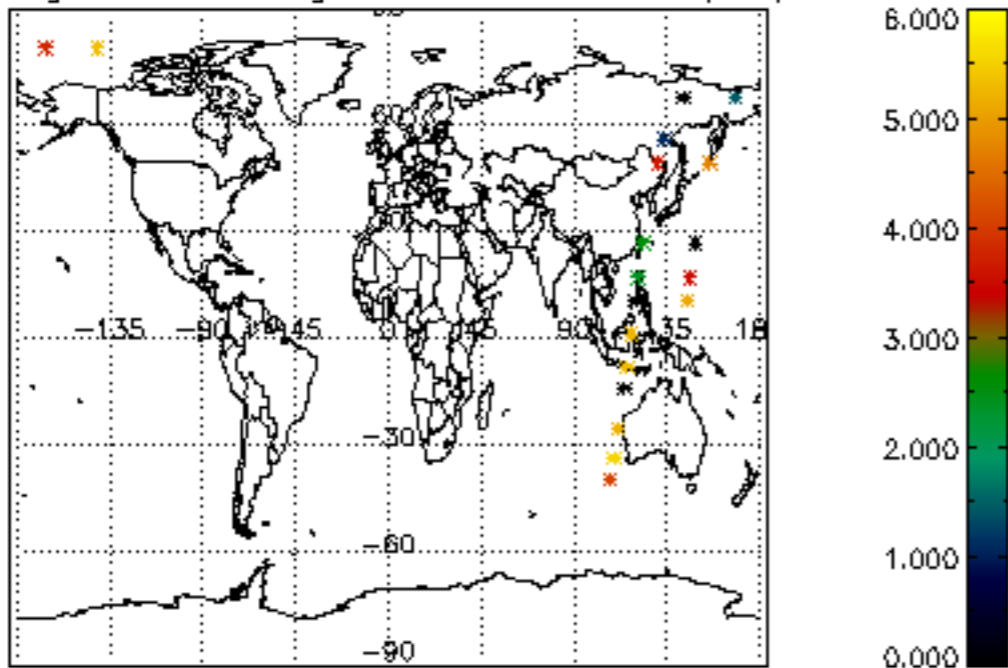
Percentage of cosmic ray hits per profile



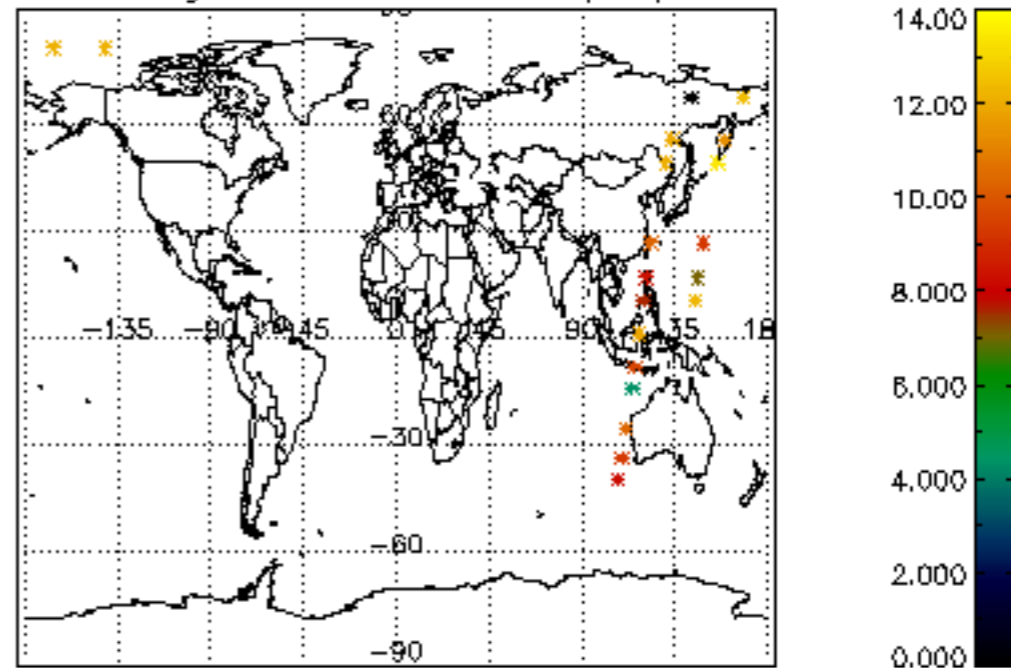
Percentage of datation errors per profile

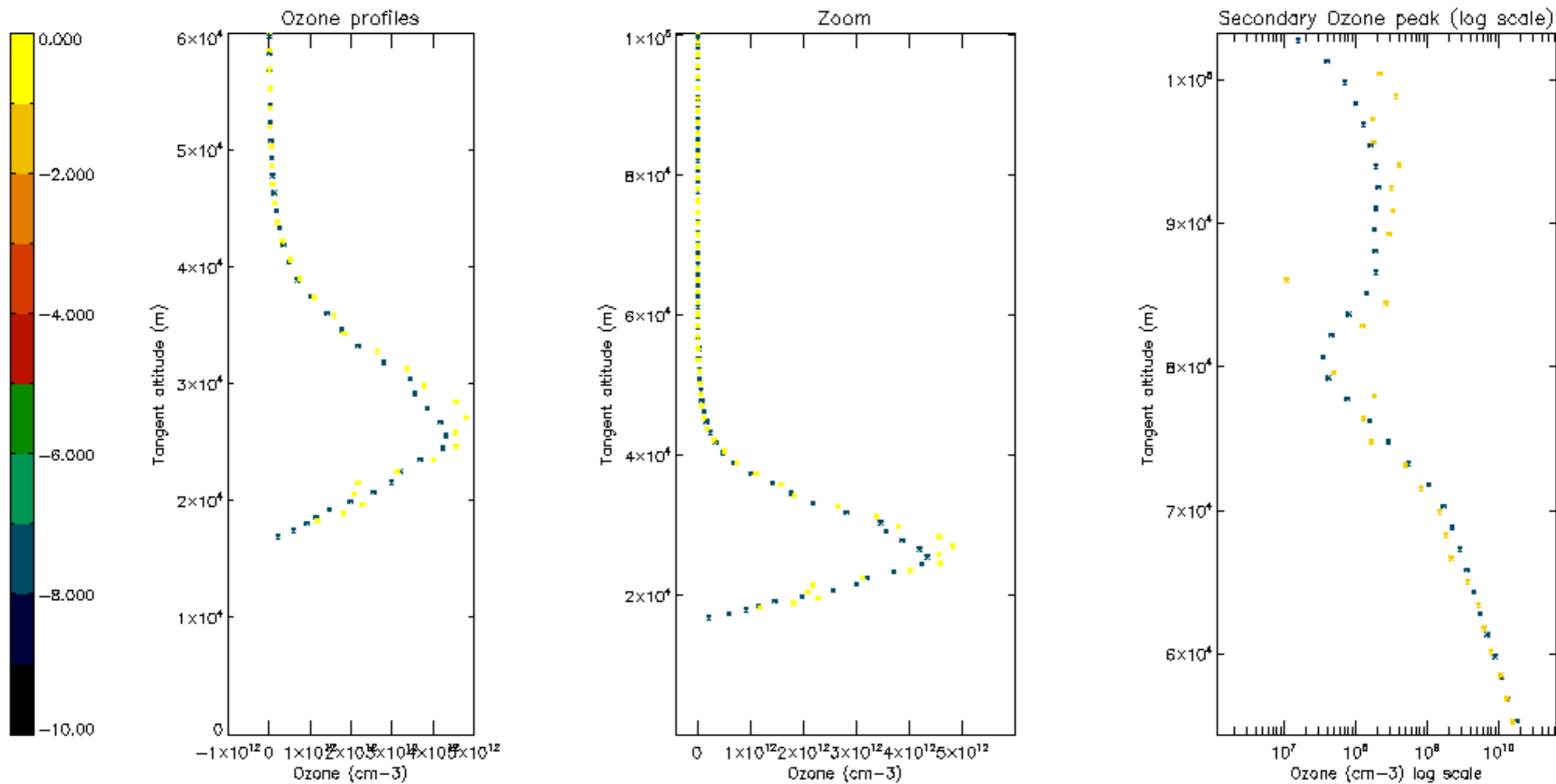


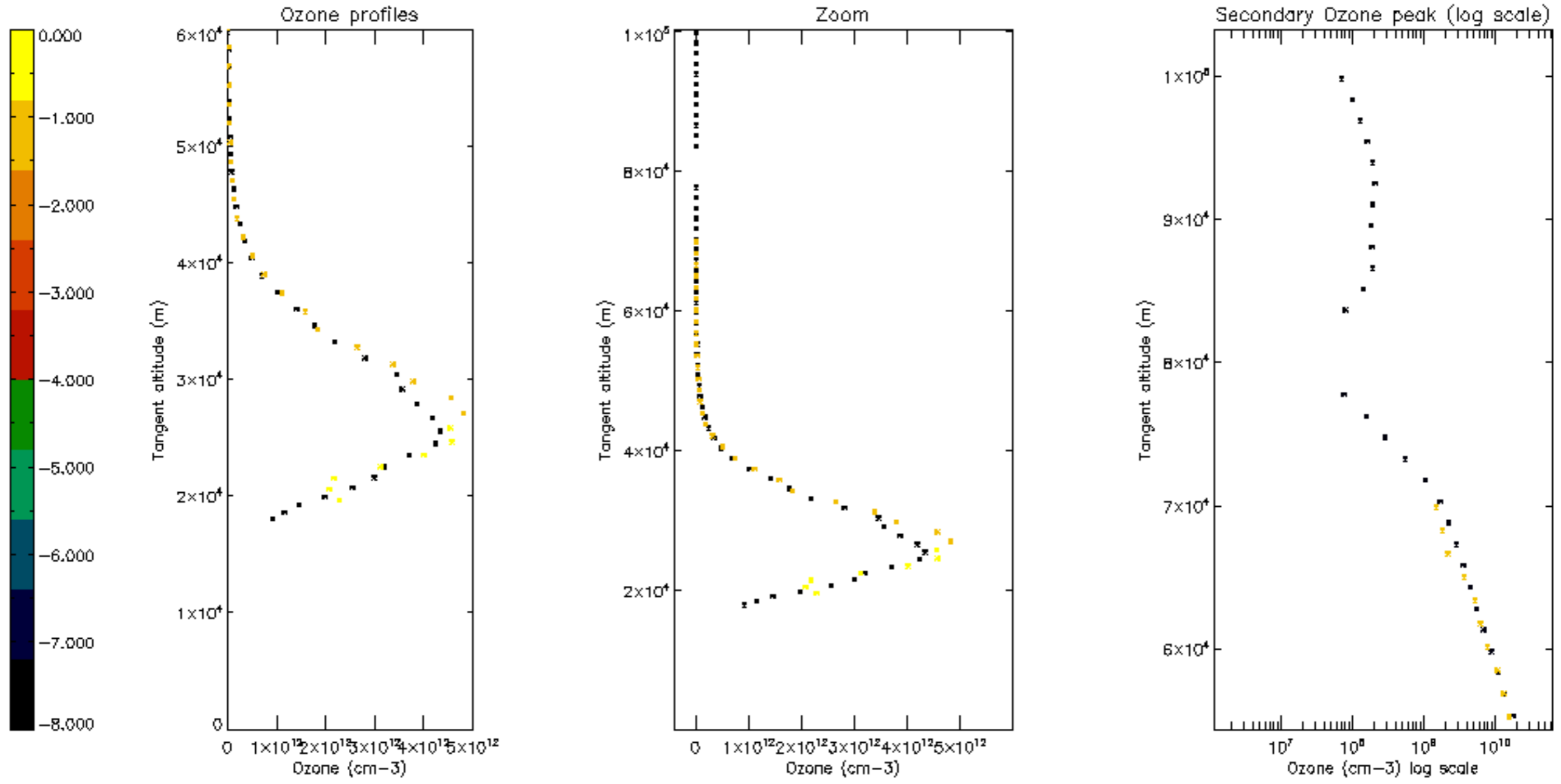
Percentage of star falling outside central band per profile

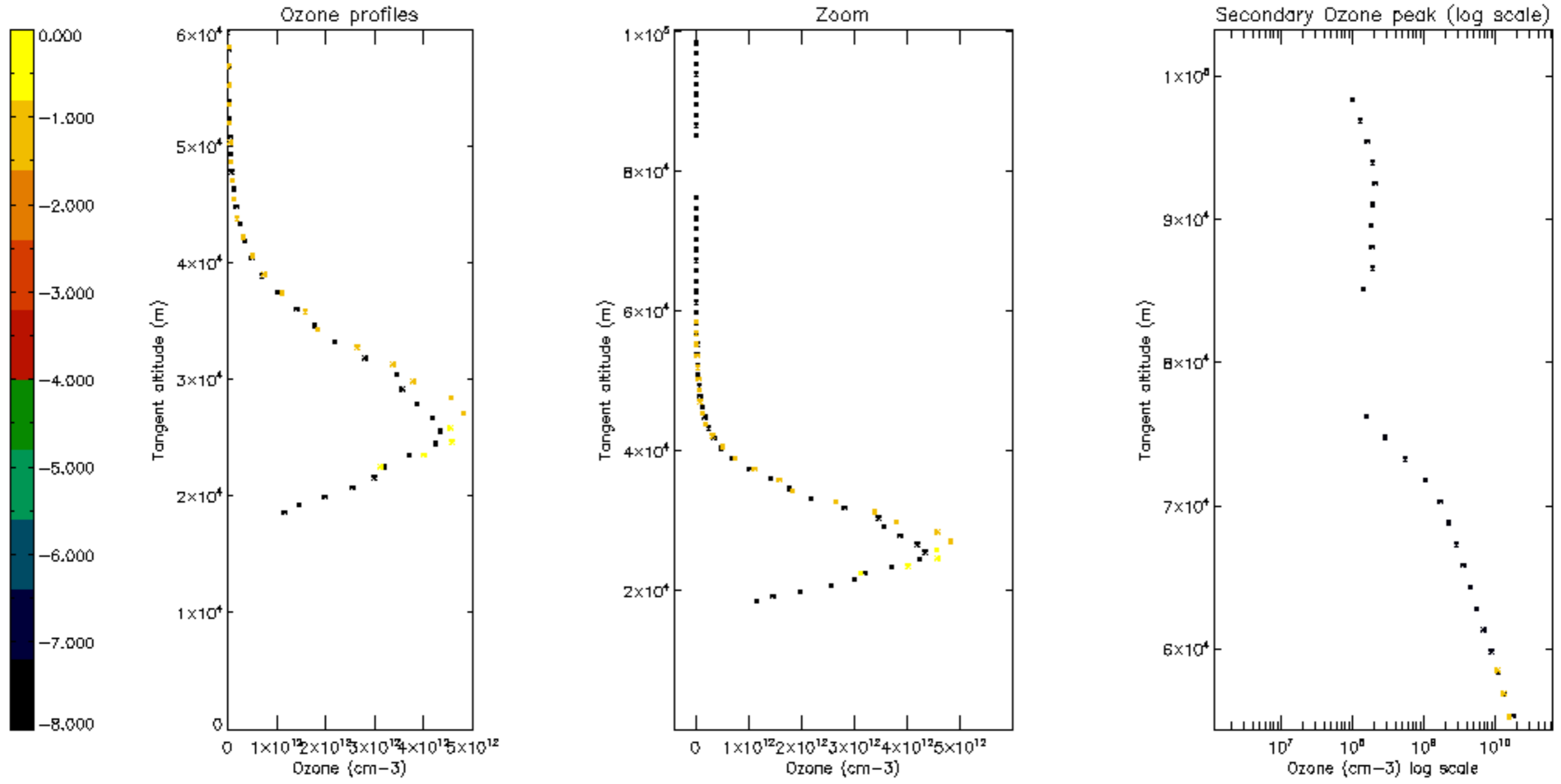


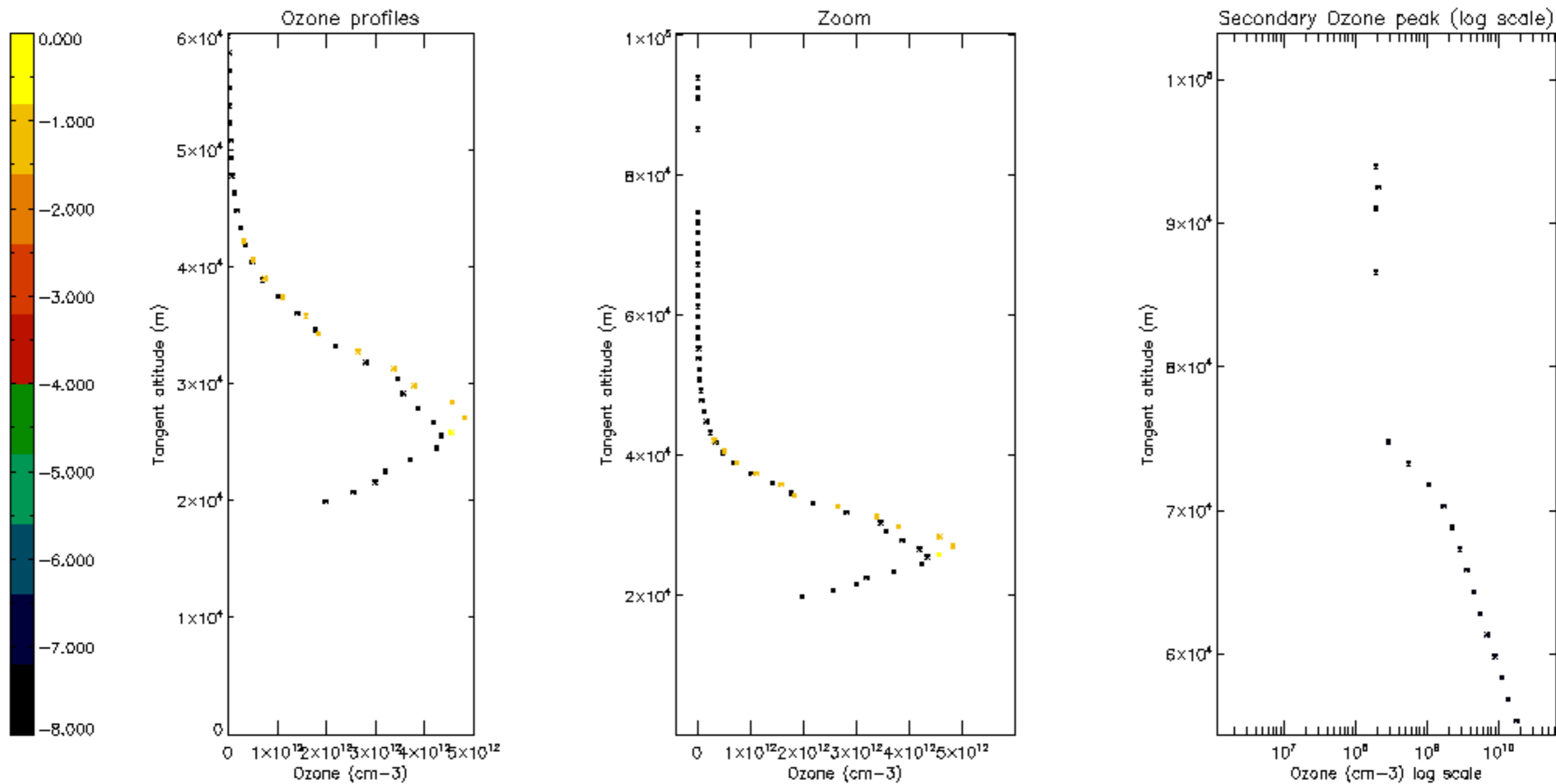
Percentage of saturation errors per profile

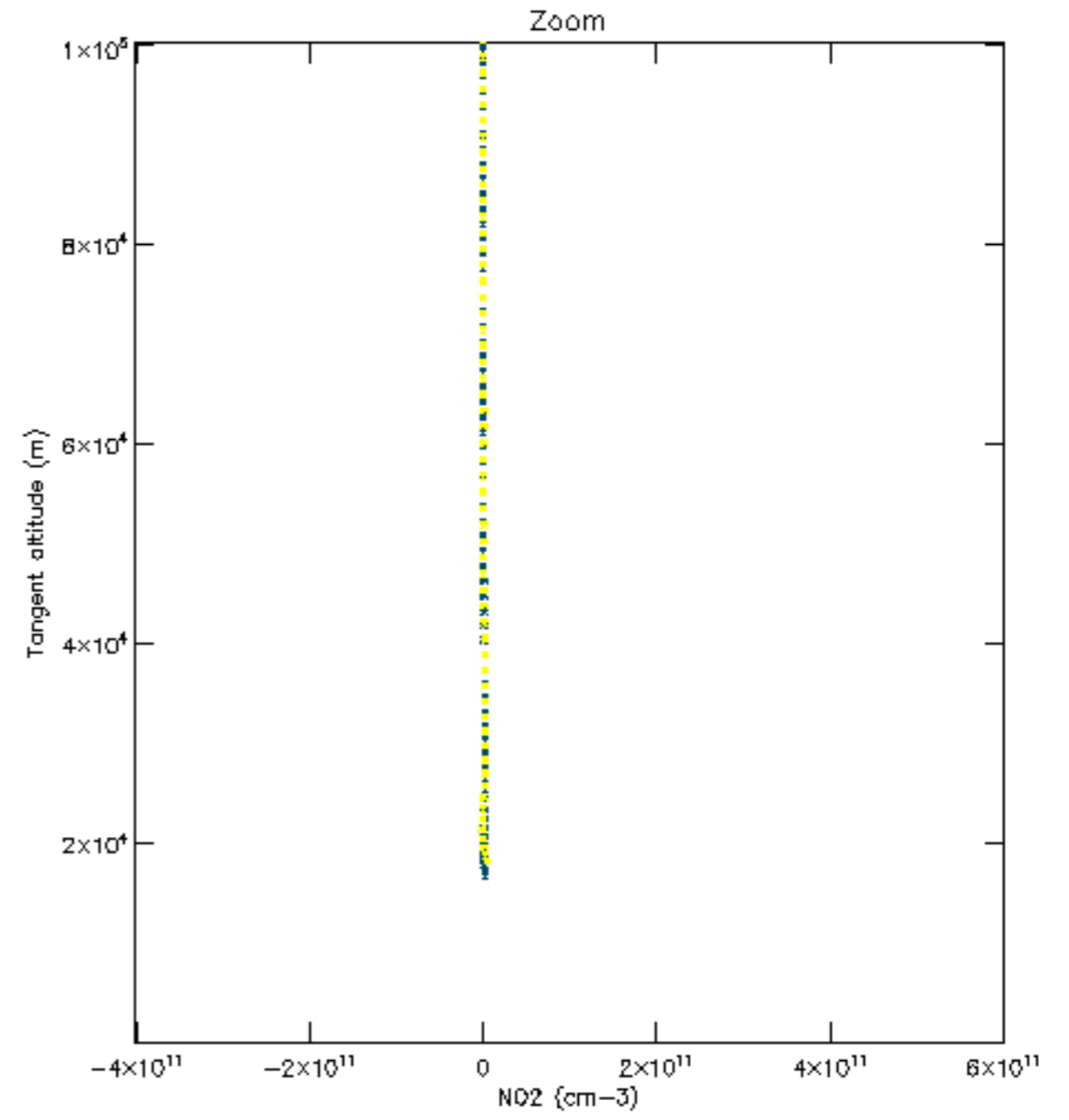
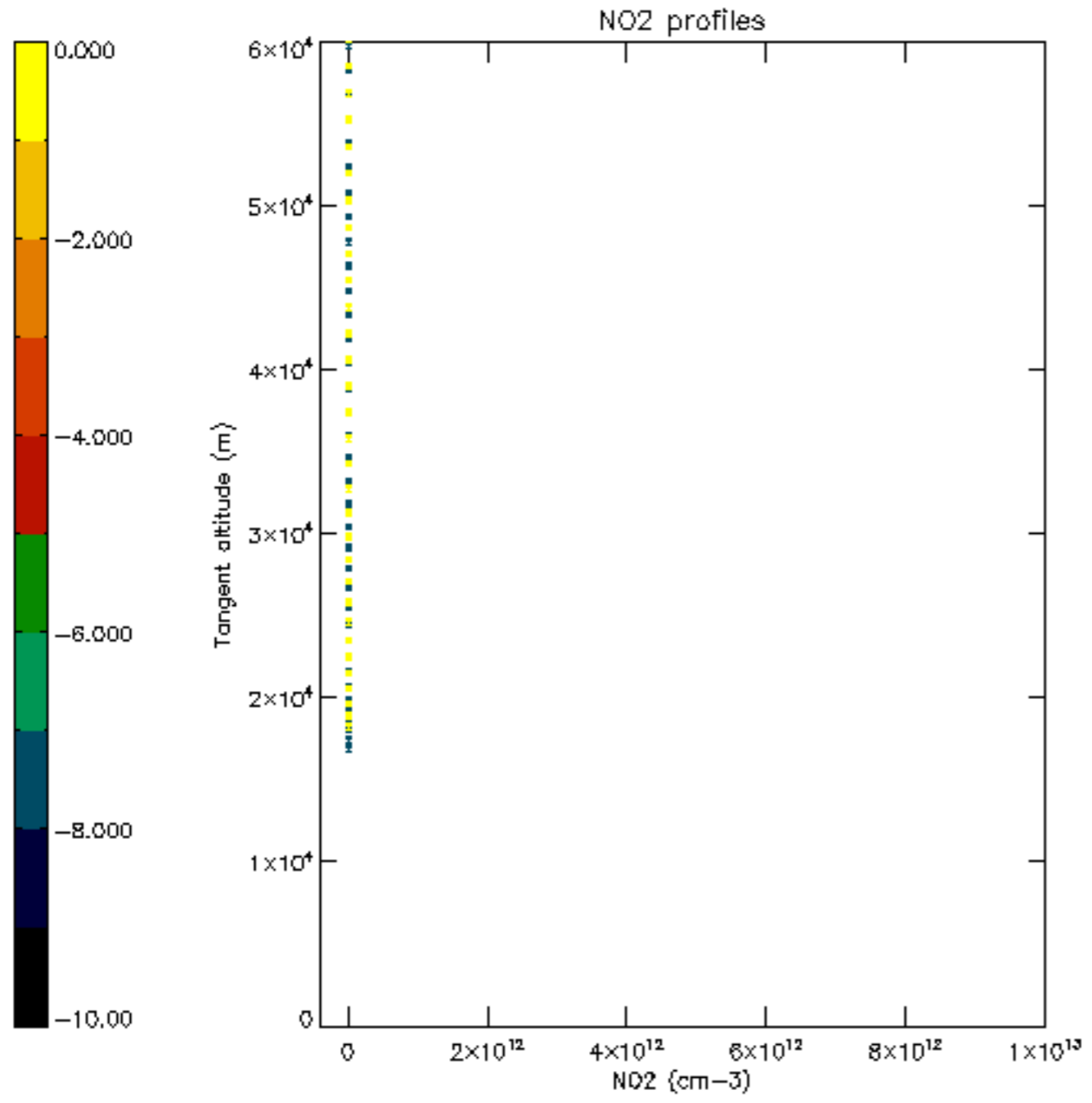


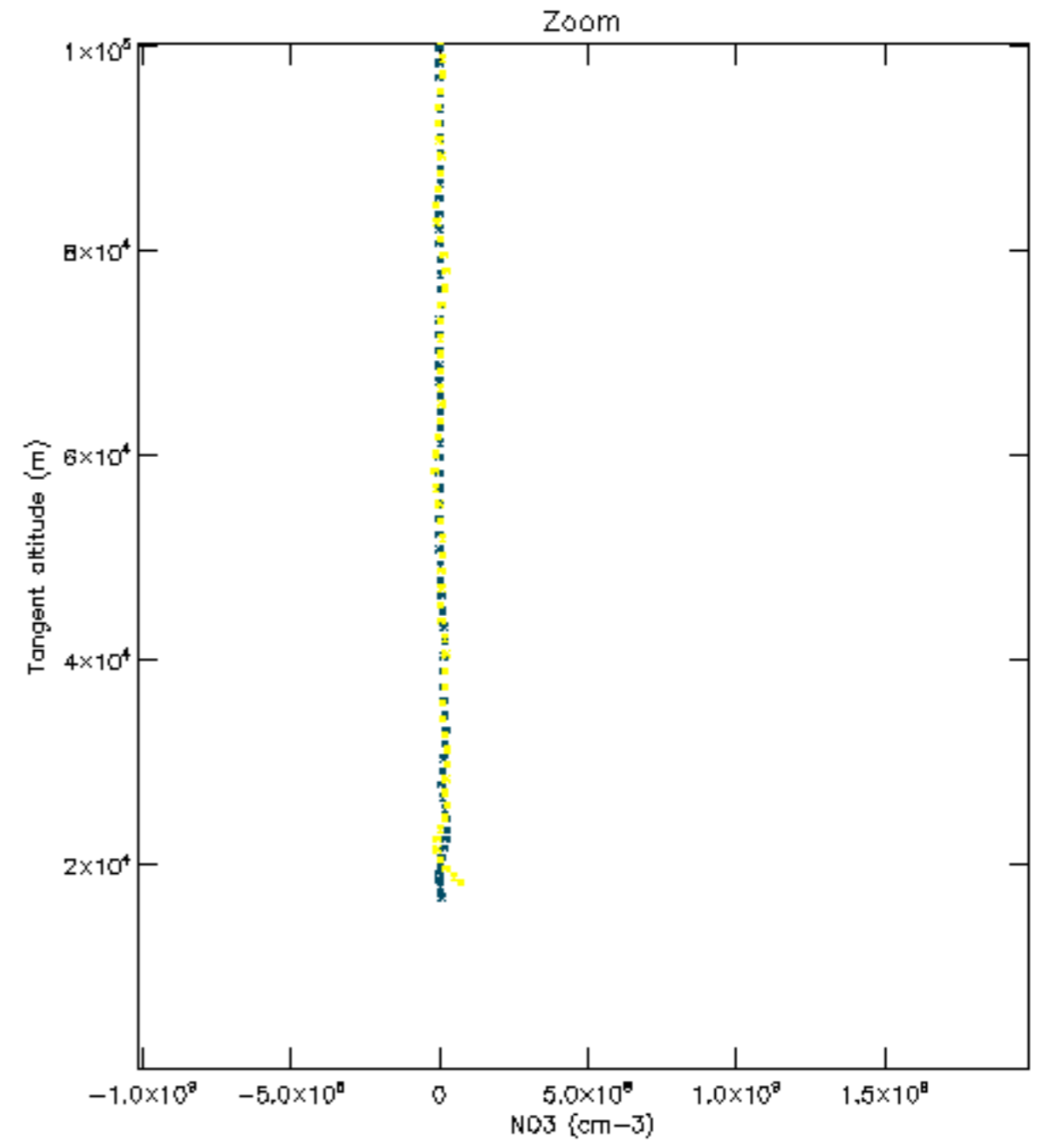
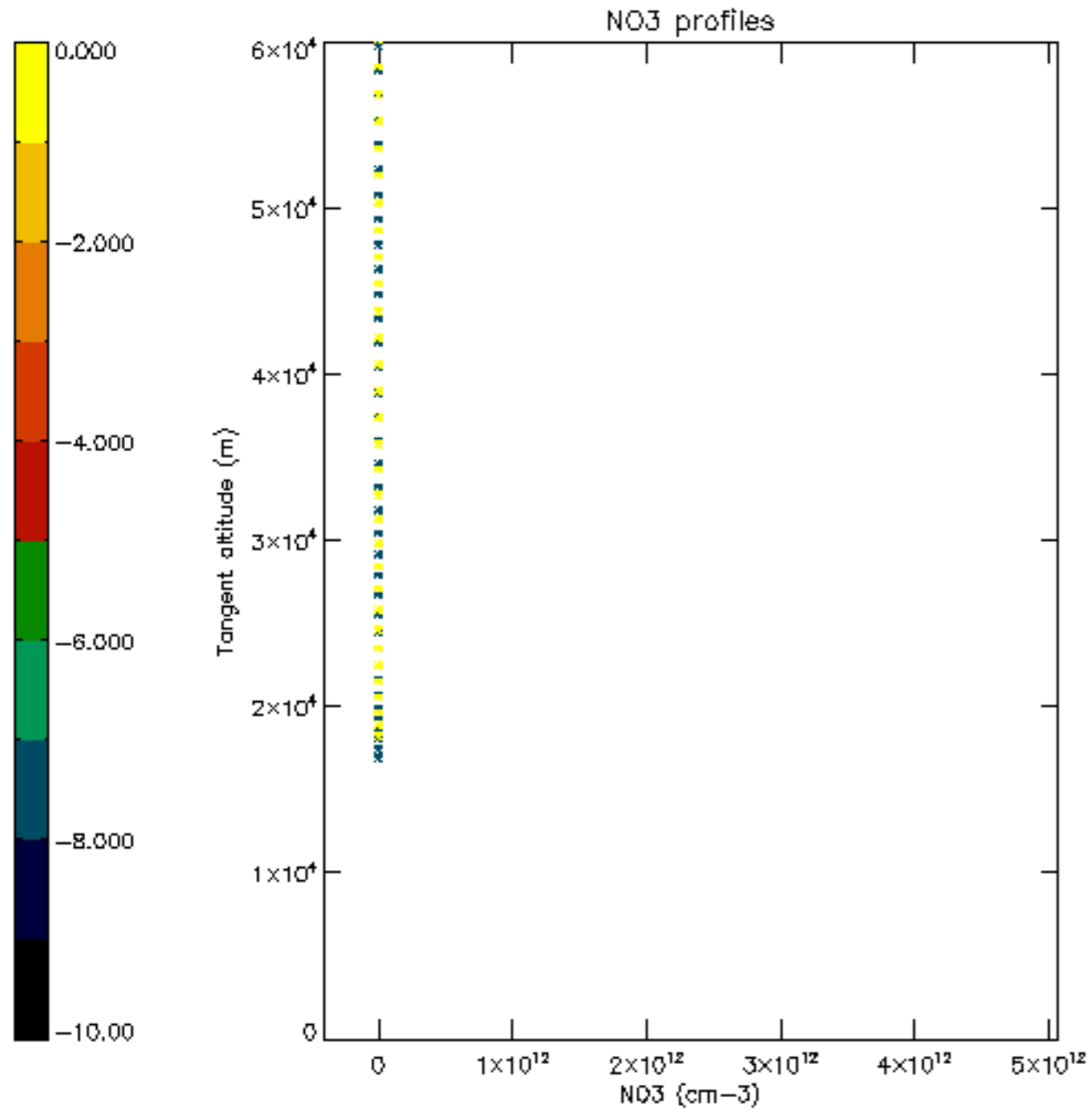




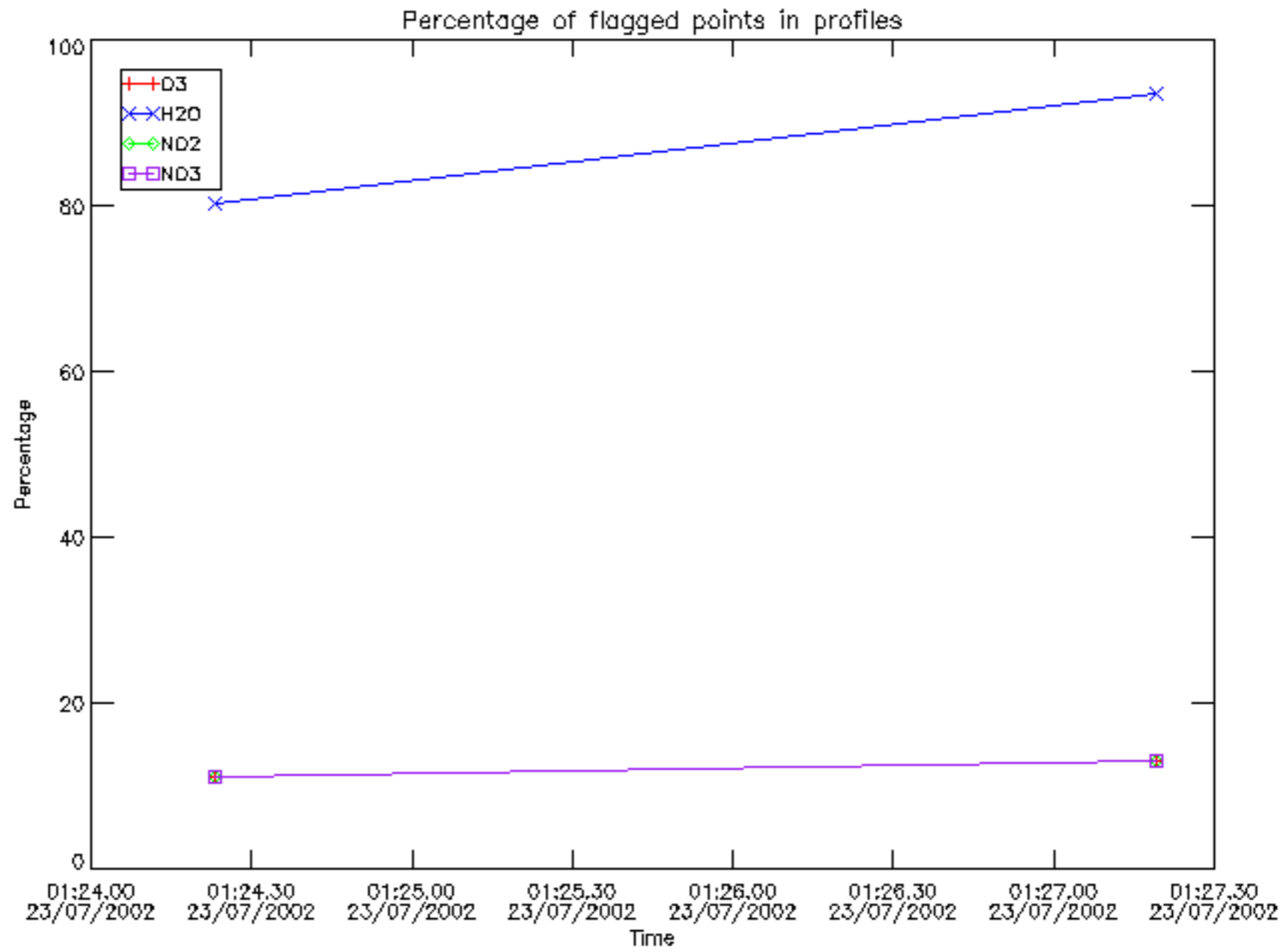




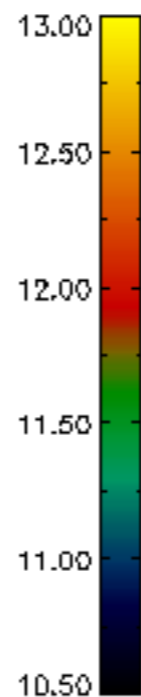
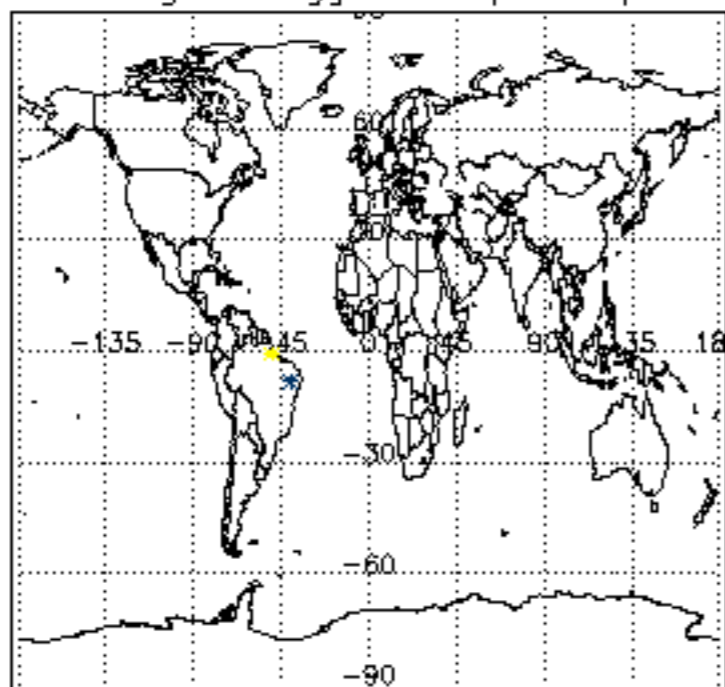




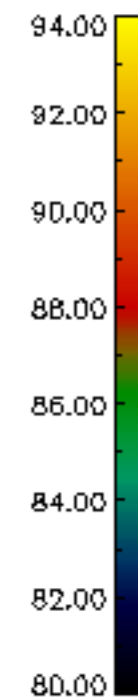
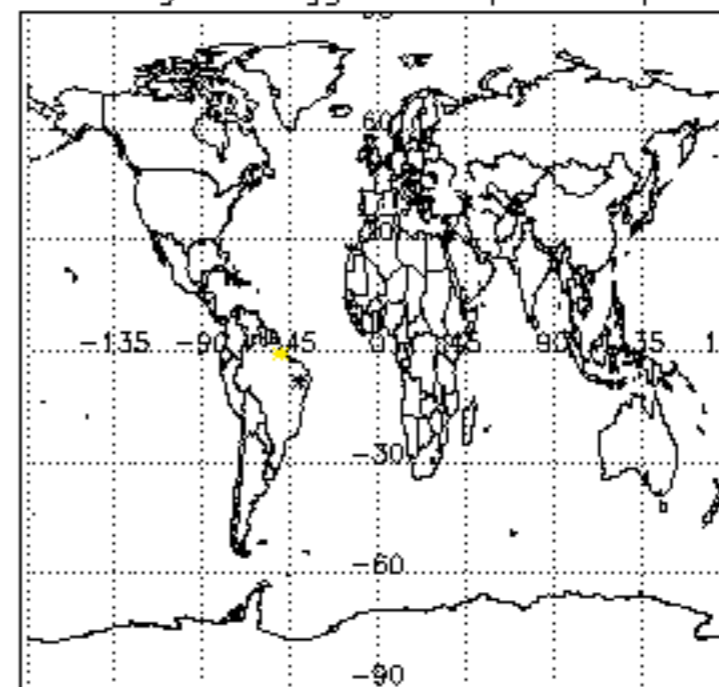




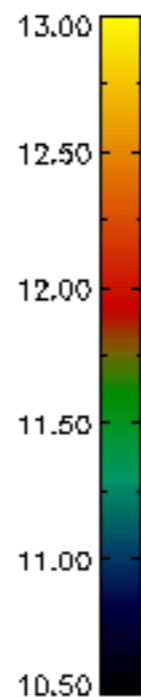
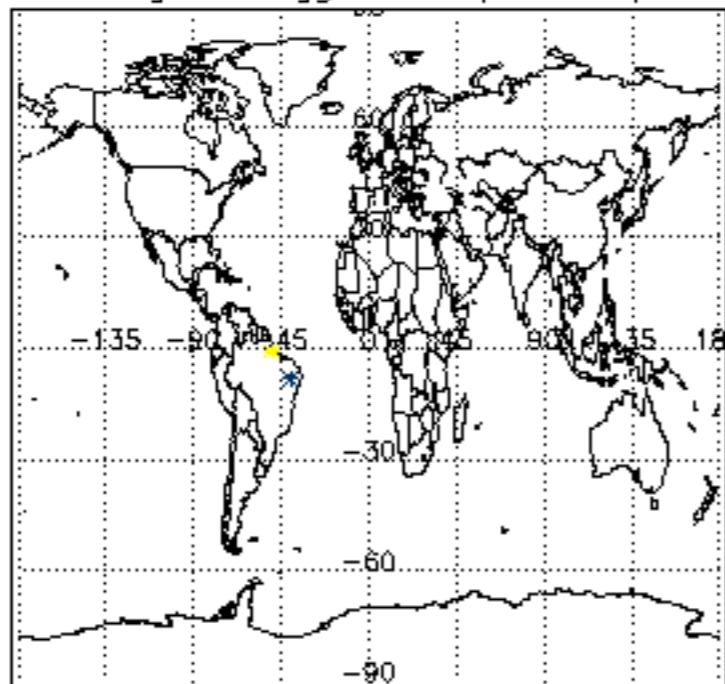
Percentage of flagged data per D3 profile



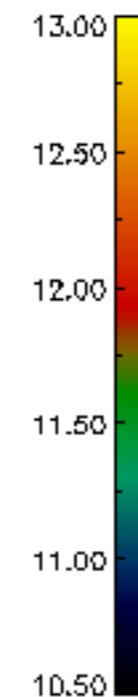
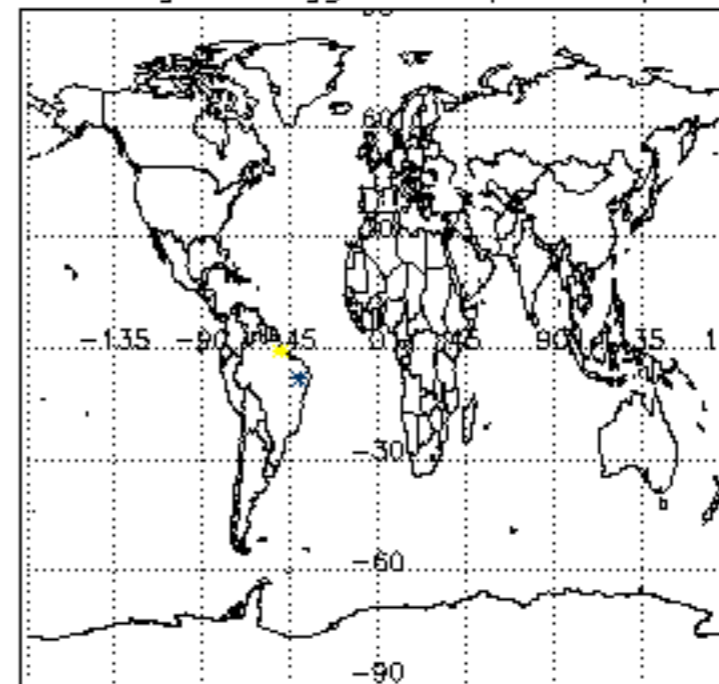
Percentage of flagged data per H2O profile

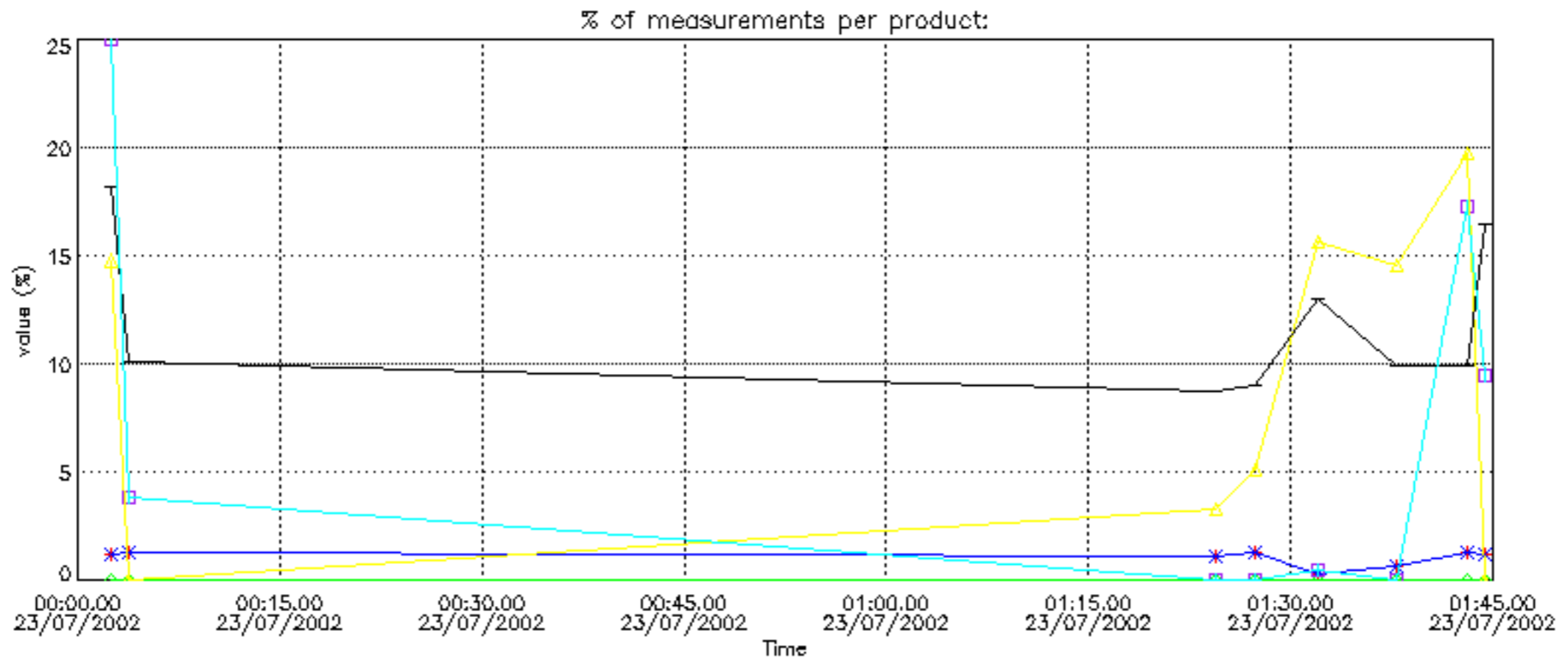


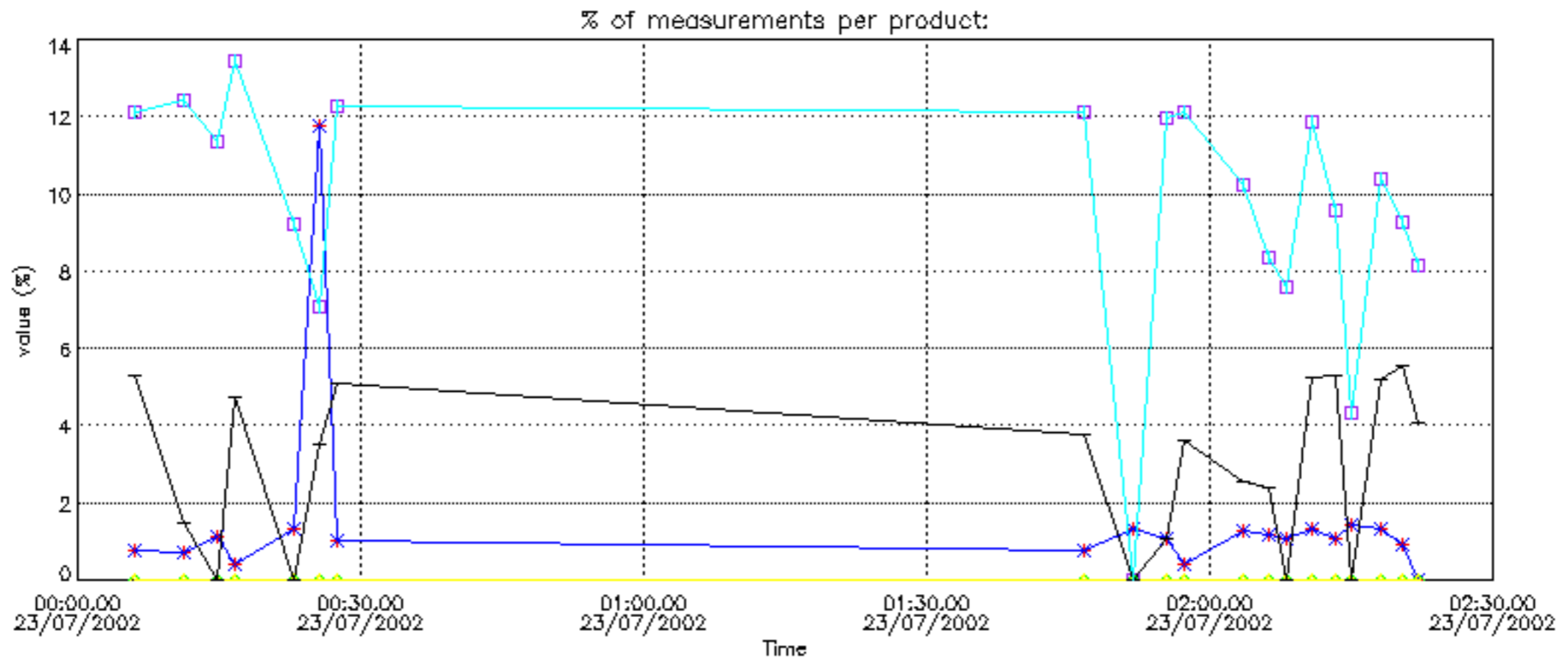
Percentage of flagged data per NO2 profile



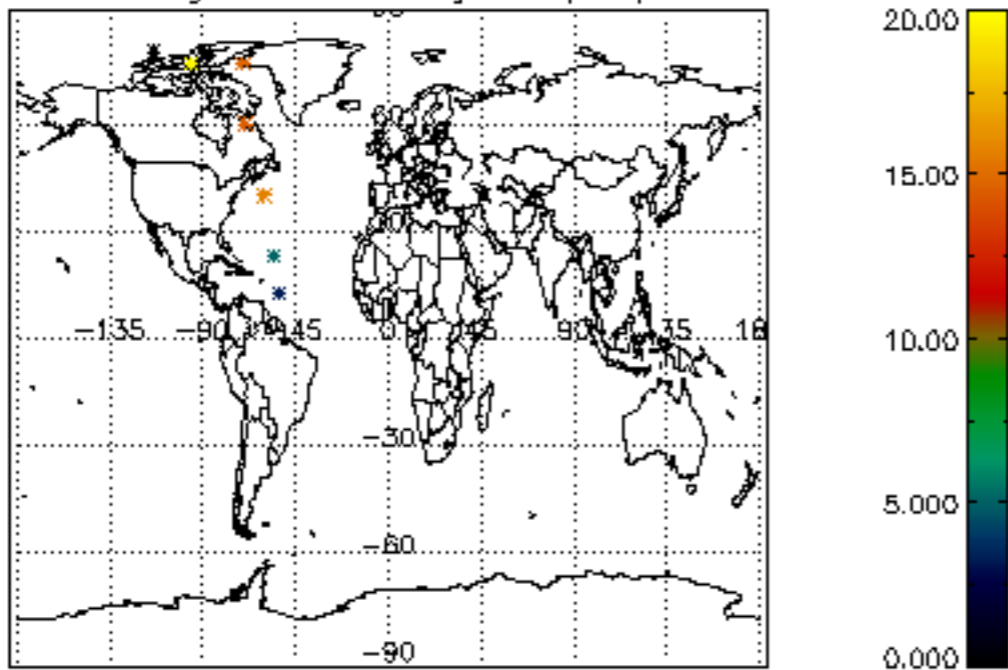
Percentage of flagged data per NO3 profile



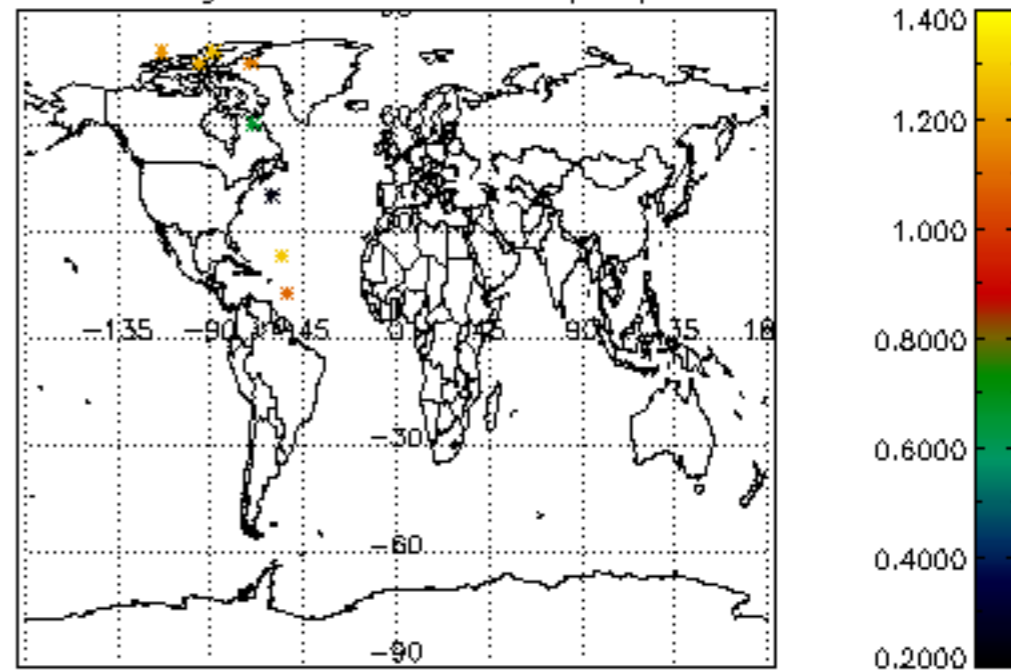




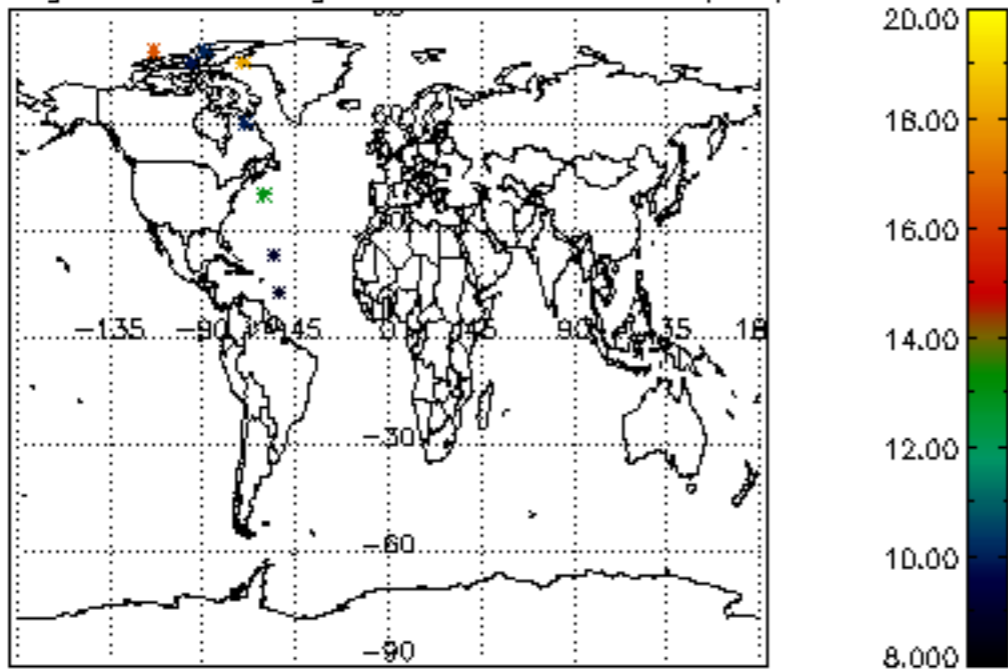
Percentage of cosmic ray hits per profile



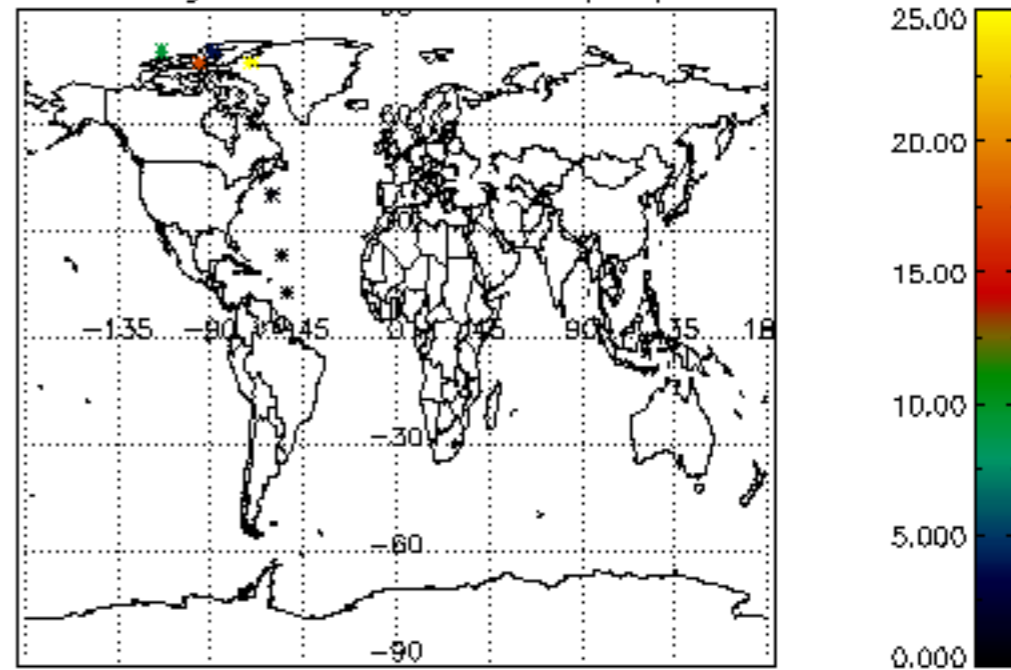
Percentage of datation errors per profile



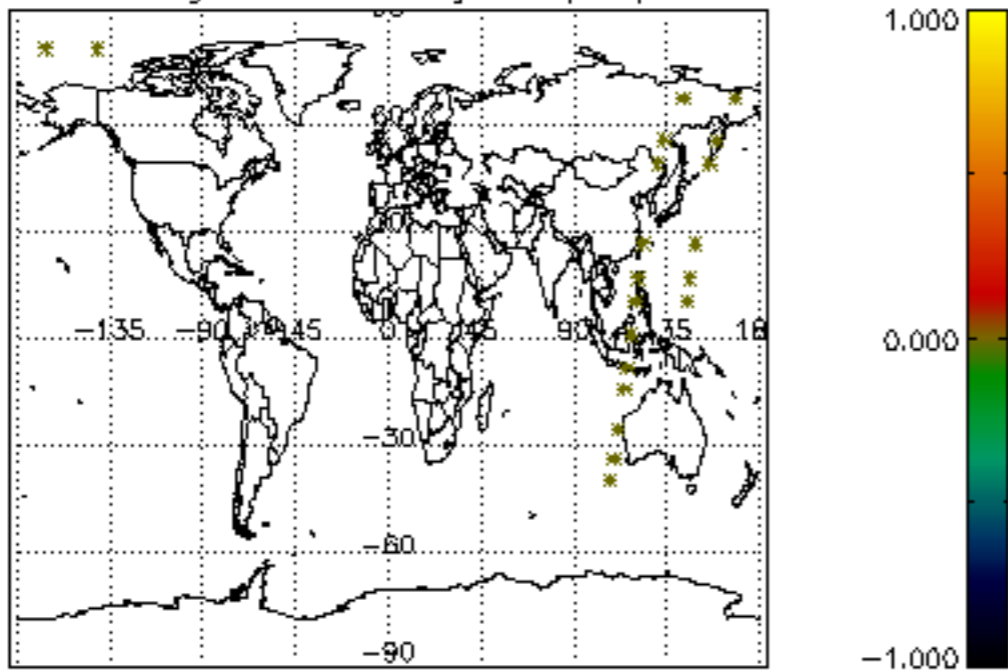
Percentage of star falling outside central band per profile



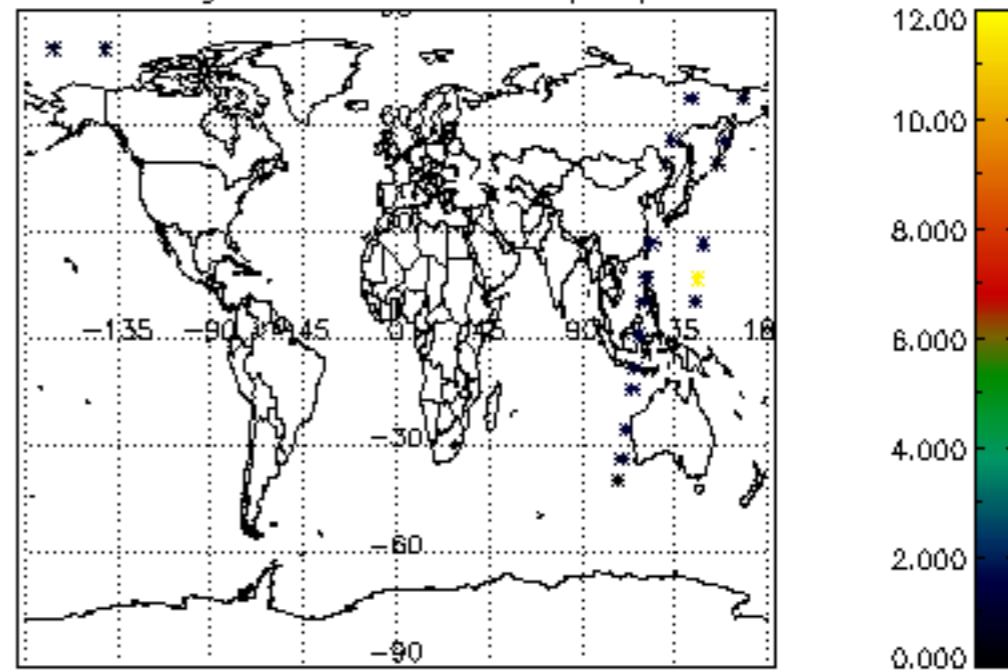
Percentage of saturation errors per profile



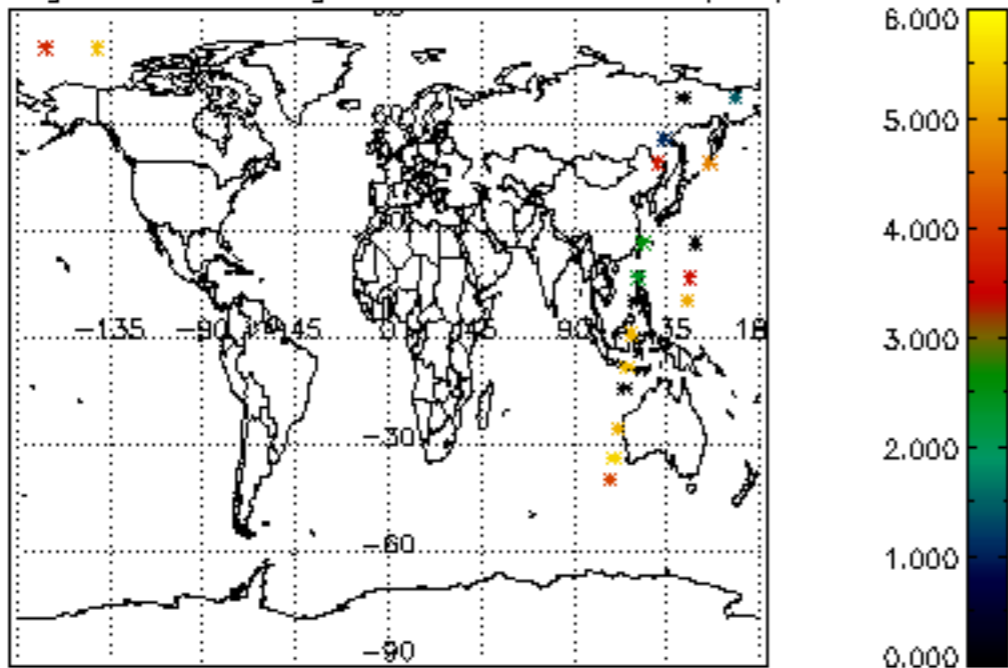
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

