

# GOMOS Level 2 Daily Report

## SUMMARY

### [1. General Info](#)

### [2. Summary of processed GOM\\_NL\\_2P products](#)

### [3. Level 2 Quality information per product](#)

#### [3.1 Plot of level 2 quality information per product \(time dependant\)](#)

#### [3.2 Plot of level 2 quality information per product \(world map\)](#)

### [4. Level 1 Quality information per product \(stored on level 2 products\)](#)

#### [4.1 Plot of level 1 quality information per product \(time dependant\)](#)

##### [4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

##### [4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

#### [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](#)

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

### [5. Ozone profiles based on quality statistics and other trace gas profiles](#)

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

#### [5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

#### [5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

#### [5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

#### [5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

#### [5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

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

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

### [6. Auxiliary Data Files used for the production reported in section 2](#)

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

Item	Value
Time of report generation	26APR2013 10:59:45
Data source version	GOMOS/6.01
Start time of products	21-07-2009 (21JUL2009 00:00:00)
Stop time of products	22-07-2009 (22JUL2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	154
Nb of prods with errors	0

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

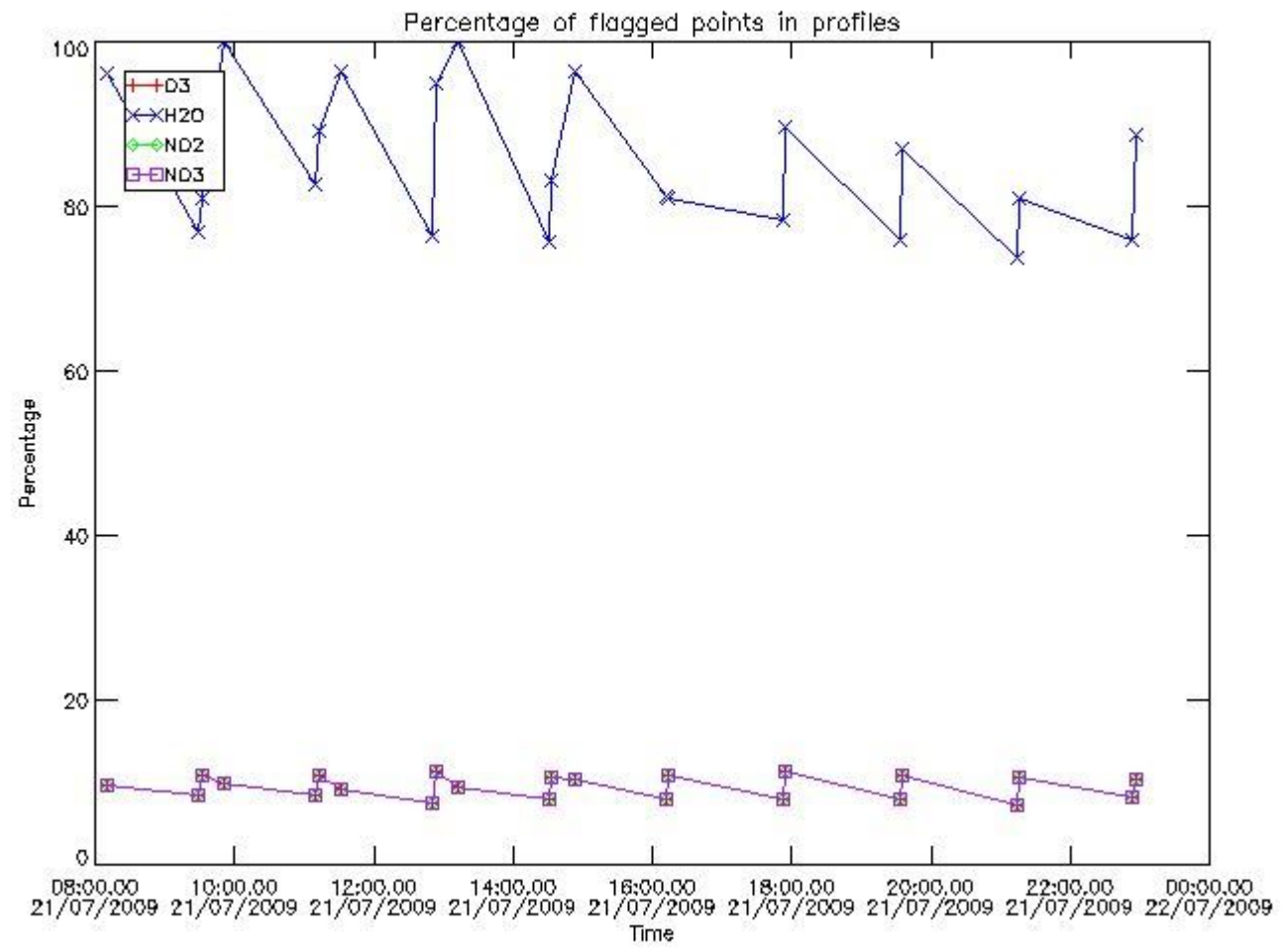
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090721_081007_000000522081_00007_38638_2081.N1	21-JUL-2009 08:10:07	Dark	52.000	84	Alp Phe	2.3970	4500.0	104	38638	No
2	GOM_NL__2PRFIN20090721_084847_000000402081_00007_38638_2082.N1	21-JUL-2009 08:48:47	Bright	39.500	144	18Del Cyg	2.8600	11000.	79	38638	No
3	GOM_NL__2PRFIN20090721_085042_000000462081_00007_38638_2083.N1	21-JUL-2009 08:50:42	Bright	45.500	19	50Alp Cyg	1.2460	10500.	91	38638	No
4	GOM_NL__2PRFIN20090721_085551_000000412081_00007_38638_2084.N1	21-JUL-2009 08:55:51	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	38638	No
5	GOM_NL__2PRFIN20090721_090305_000000472081_00007_38638_2085.N1	21-JUL-2009 09:03:05	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	38638	No
6	GOM_NL__2PRFIN20090721_090441_000000452081_00007_38638_2086.N1	21-JUL-2009 09:04:41	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	38638	No
7	GOM_NL__2PRFIN20090721_091010_000000382081_00007_38638_2087.N1	21-JUL-2009 09:10:10	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	38638	No
8	GOM_NL__2PRFIN20090721_091136_000000382081_00007_38638_2088.N1	21-JUL-2009 09:11:36	Bright	37.500	35	33Alp Per	1.7950	6250.0	75	38638	No
9	GOM_NL__2PRFIN20090721_091439_000000412081_00007_38638_2089.N1	21-JUL-2009 09:14:39	Bright	40.500	79	26Bet Per	2.3100	13100.	81	38638	No
10	GOM_NL__2PRFIN20090721_091746_000000372081_00007_38638_2090.N1	21-JUL-2009 09:17:46	Twilight	36.500	150	44Zet Per	2.8900	28000.	73	38638	No
11	GOM_NL__2PRFIN20090721_092030_000000392081_00007_38638_2091.N1	21-JUL-2009 09:20:30	Twilight	38.500	146	25Eta Tau	2.8730	15200.	77	38638	No
12	GOM_NL__2PRFIN20090721_092914_000000612081_00007_38638_2092.N1	21-JUL-2009 09:29:14	Dark	61.000	94	92Alp Cet	2.5260	3100.0	122	38638	No
13	GOM_NL__2PRFIN20090721_093154_000000482081_00007_38638_2093.N1	21-JUL-2009 09:31:54	Dark	47.500	165	34Gam Eri	2.9500	3200.0	95	38638	No
14	GOM_NL__2PRFIN20090721_095045_000000522081_00008_38639_2095.N1	21-JUL-2009 09:50:45	Dark	51.500	84	Alp Phe	2.3970	4500.0	103	38639	No
15	GOM_NL__2PRFIN20090721_095605_000000662081_00008_38639_2096.N1	21-JUL-2009 09:56:05	Straylight	66.000	63	Bet Gru	2.1500	2800.0	132	38639	No
16	GOM_NL__2PRFIN20090721_095732_000000472081_00008_38639_2097.N1	21-JUL-2009 09:57:32	Straylight	46.500	31	Alp Gru	1.7340	15200.	93	38639	No
17	GOM_NL__2PRFIN20090721_100045_000000492081_00008_38639_2098.N1	21-JUL-2009 10:00:45	Straylight	49.000	172	Gam Gru	3.0030	13100.	98	38639	No
18	GOM_NL__2PRFIN20090721_101823_000000432081_00008_38639_2099.N1	21-JUL-2009 10:18:23	Bright	42.500	11	53Alp Aql	0.76500	8000.0	85	38639	No
19	GOM_NL__2PRFIN20090721_102922_000000392081_00008_38639_2100.N1	21-JUL-2009 10:29:22	Bright	39.000	144	18Del Cyg	2.8600	11000.	78	38639	No
20	GOM_NL__2PRFIN20090721_103118_000000462081_00008_38639_2101.N1	21-JUL-2009 10:31:18	Bright	45.500	19	50Alp Cyg	1.2460	10500.	91	38639	No
21	GOM_NL__2PRFIN20090721_103626_000000442081_00008_38639_2102.N1	21-JUL-2009 10:36:26	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38639	No
22	GOM_NL__2PRFIN20090721_104340_000000492081_00008_38639_2103.N1	21-JUL-2009 10:43:40	Bright	48.500	74	11Bet Cas	2.2680	6600.0	97	38639	No
23	GOM_NL__2PRFIN20090721_104516_000000462081_00008_38639_2104.N1	21-JUL-2009 10:45:16	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	38639	No
24	GOM_NL__2PRFIN20090721_105046_000000432081_00008_38639_2105.N1	21-JUL-2009 10:50:46	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	38639	No
25	GOM_NL__2PRFIN20090721_105212_000000452081_00008_38639_2106.N1	21-JUL-2009 10:52:12	Bright	44.500	35	33Alp Per	1.7950	6250.0	89	38639	No
26	GOM_NL__2PRFIN20090721_105515_000000502081_00008_38639_2107.N1	21-JUL-2009 10:55:15	Bright	49.500	79	26Bet Per	2.3100	13100.	99	38639	No
27	GOM_NL__2PRFIN20090721_105823_000000472081_00008_38639_2108.N1	21-JUL-2009 10:58:23	Twilight	46.500	150	44Zet Per	2.8900	28000.	93	38639	No
28	GOM_NL__2PRFIN20090721_110107_000000462081_00008_38639_2109.N1	21-JUL-2009 11:01:07	Twilight	46.000	146	25Eta Tau	2.8730	15200.	92	38639	No
29	GOM_NL__2PRFIN20090721_110951_000000672081_00008_38639_2110.N1	21-JUL-2009 11:09:51	Dark	67.000	94	92Alp Cet	2.5260	3100.0	134	38639	No
30	GOM_NL__2PRFIN20090721_111231_000000472081_00008_38639_2111.N1	21-JUL-2009 11:12:31	Dark	46.500	165	34Gam Eri	2.9500	3200.0	93	38639	No
31	GOM_NL__2PRFIN20090721_113122_000000552081_00009_38640_2135.N1	21-JUL-2009 11:31:22	Dark	55.000	84	Alp Phe	2.3970	4500.0	110	38640	No
32	GOM_NL__2PRFIN20090721_113641_000000632081_00009_38640_2136.N1	21-JUL-2009 11:36:41	Straylight	63.000	63	Bet Gru	2.1500	2800.0	126	38640	No
33	GOM_NL__2PRFIN20090721_113808_000000482081_00009_38640_2137.N1	21-JUL-2009 11:38:08	Straylight	47.500	31	Alp Gru	1.7340	15200.	95	38640	No
34	GOM_NL__2PRFIN20090721_114121_000000482081_00009_38640_2138.N1	21-JUL-2009 11:41:21	Straylight	48.000	172	Gam Gru	3.0030	13100.	96	38640	No
35	GOM_NL__2PRFIN20090721_115859_000000412081_00009_38640_2139.N1	21-JUL-2009 11:58:59	Bright	41.000	11	53Alp Aql	0.76500	8000.0	82	38640	No
36	GOM_NL__2PRFIN20090721_120957_000000592081_00009_38640_2140.N1	21-JUL-2009 12:09:57	Bright	59.000	144	18Del Cyg	2.8600	11000.	118	38640	No
37	GOM_NL__2PRFIN20090721_121152_000000462081_00009_38640_2141.N1	21-JUL-2009 12:11:52	Bright	45.500	19	50Alp Cyg	1.2460	10500.	91	38640	No
38	GOM_NL__2PRFIN20090721_121701_000000432081_00009_38640_2142.N1	21-JUL-2009 12:17:01	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	38640	No
39	GOM_NL__2PRFIN20090721_122414_000000502081_00009_38640_2143.N1	21-JUL-2009 12:24:14	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38640	No
40	GOM_NL__2PRFIN20090721_122550_000000472081_00009_38640_2144.N1	21-JUL-2009 12:25:50	Bright	46.500	76	27Gam Cas	2.3000	30000.	93	38640	No
41	GOM_NL__2PRFIN20090721_123120_000000632081_00009_38640_2145.N1	21-JUL-2009 12:31:20	Bright	63.000	160	23Gam Per	2.9300	4700.0	126	38640	No
42	GOM_NL__2PRFIN20090721_123247_000000452081_00009_38640_2146.N1	21-JUL-2009 12:32:47	Bright	45.000	35	33Alp Per	1.7950	6250.0	90	38640	No





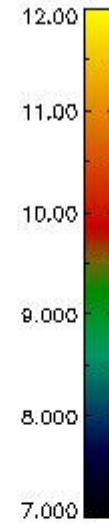
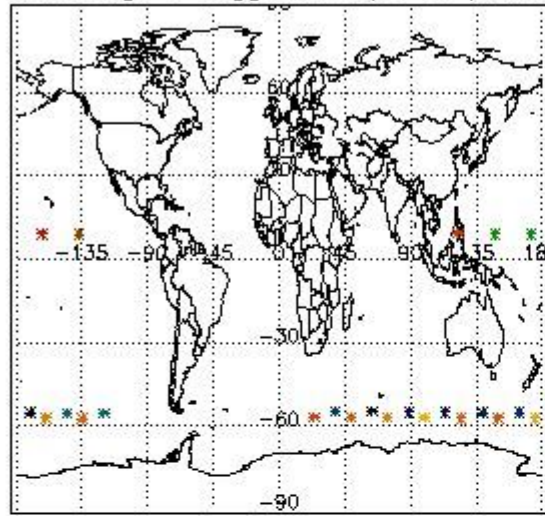
the MPH set to "0") are used.

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

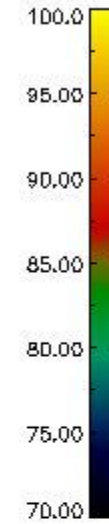
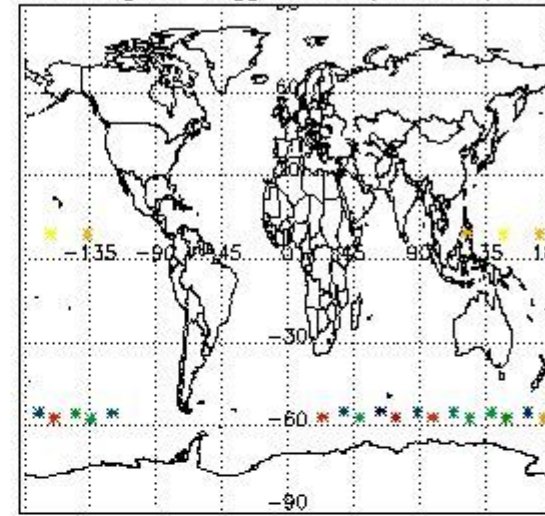


### 3.2 Plot quality information per product (world map)

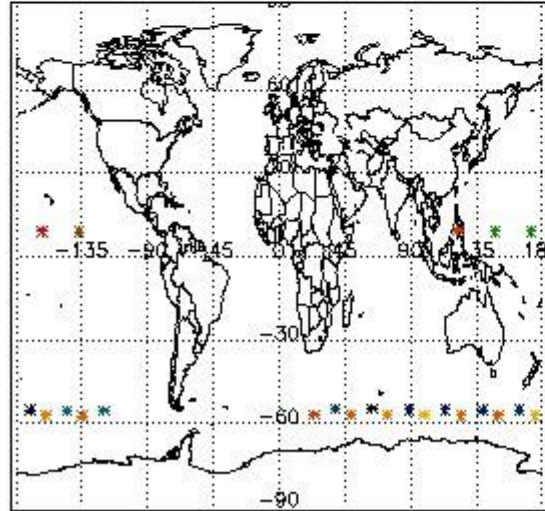
Percentage of flagged data per O3 profile



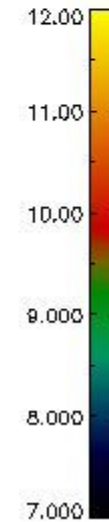
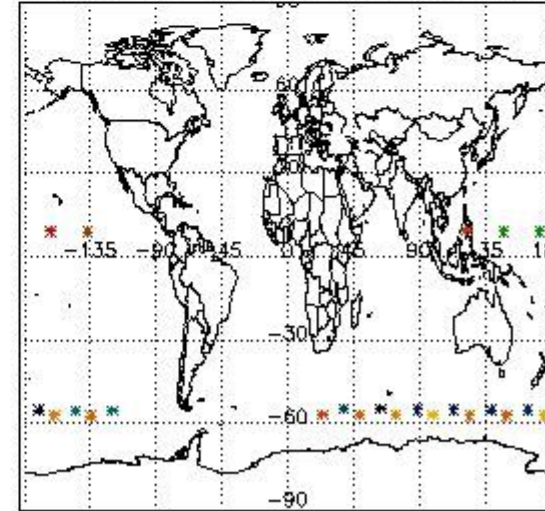
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

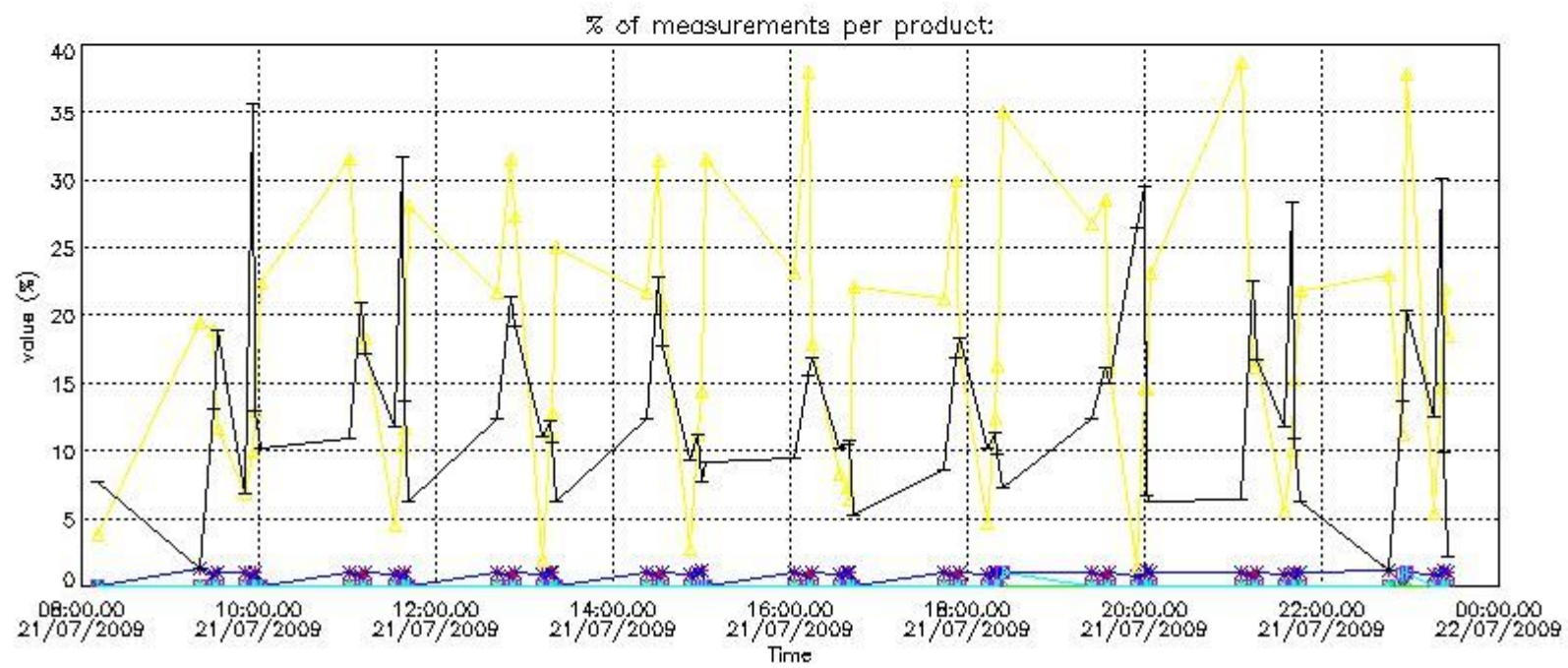
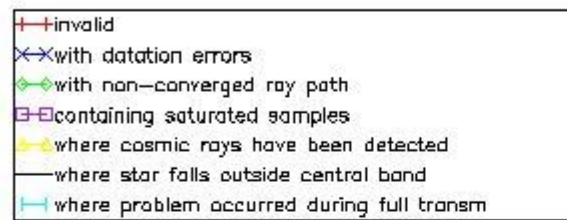


#### 4. Level 1 quality information per product

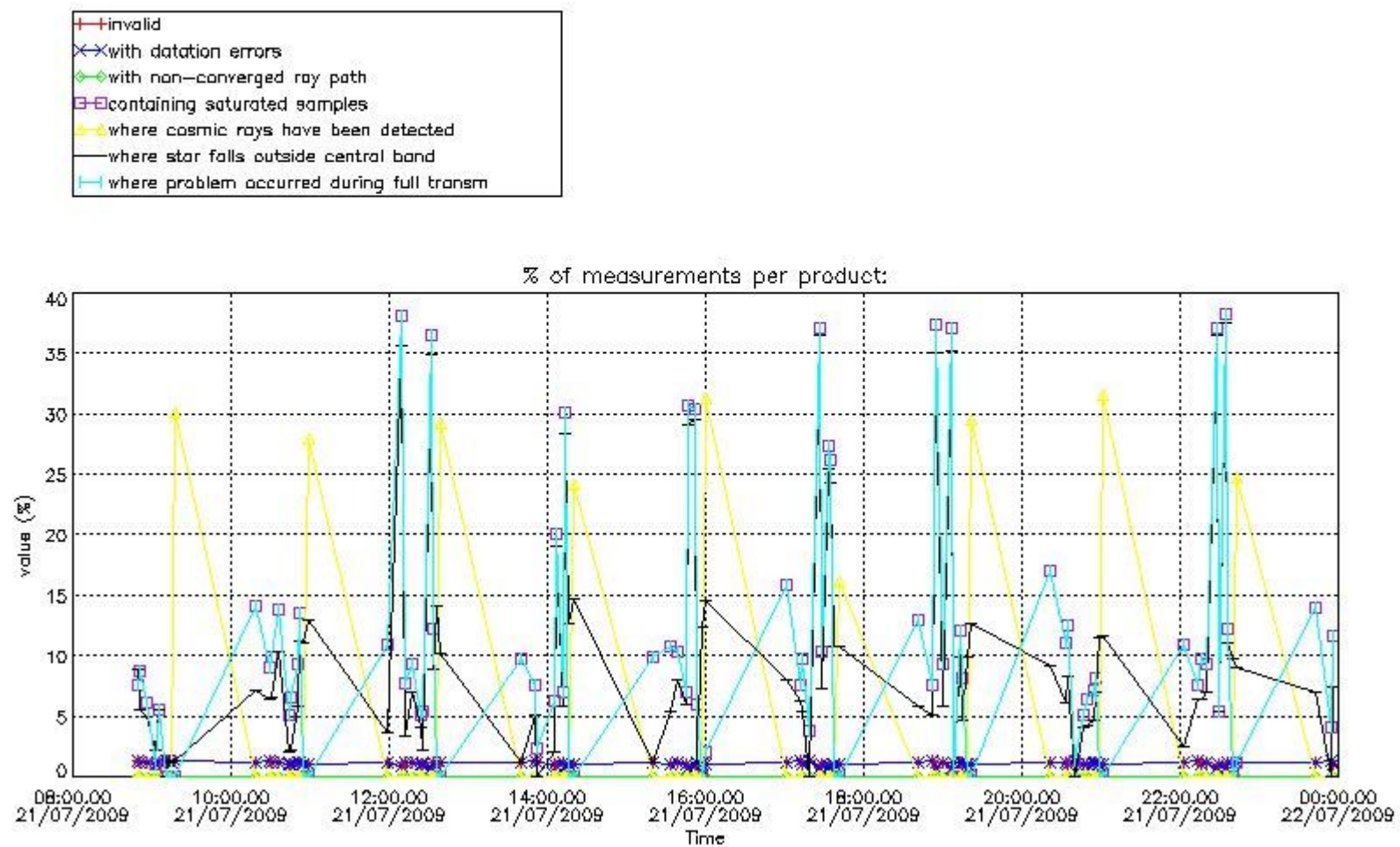
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



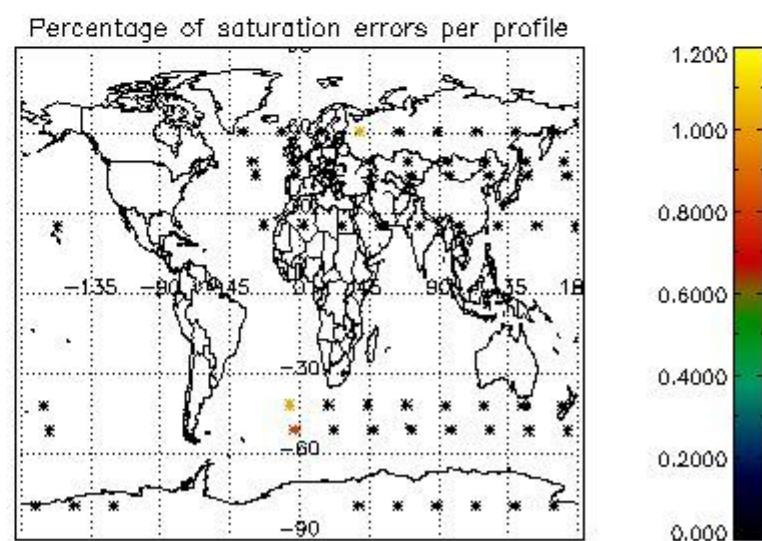
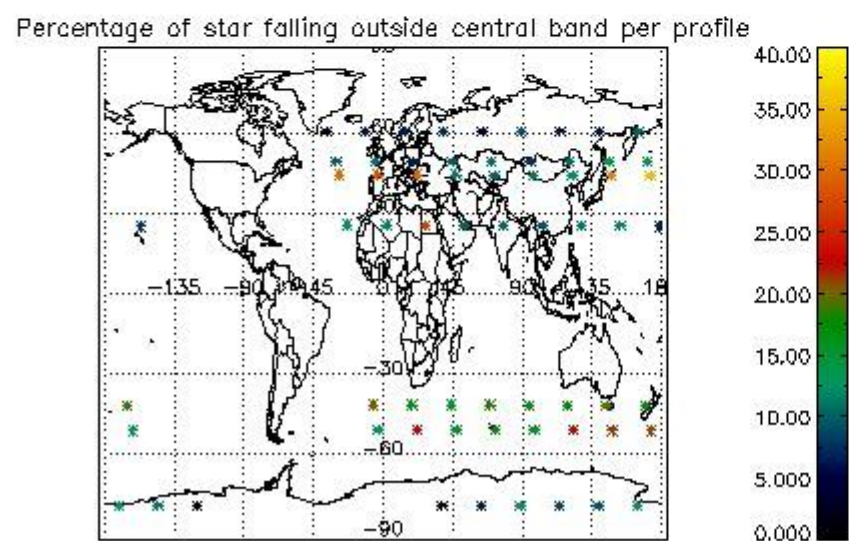
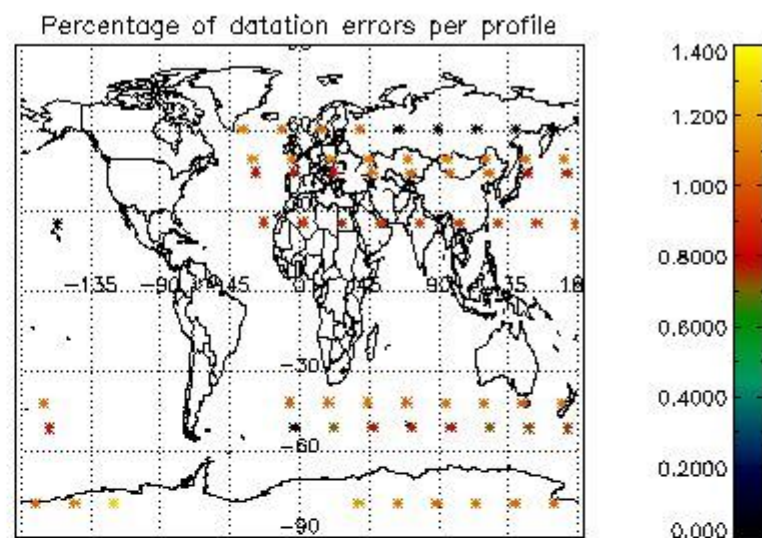
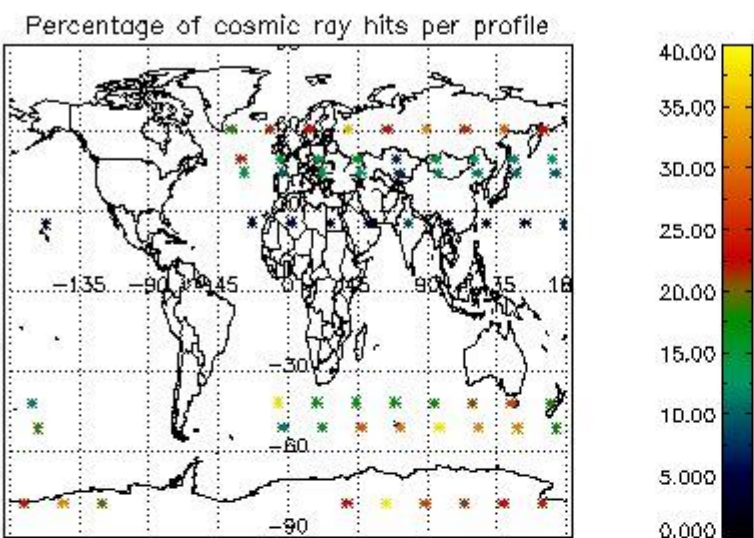
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



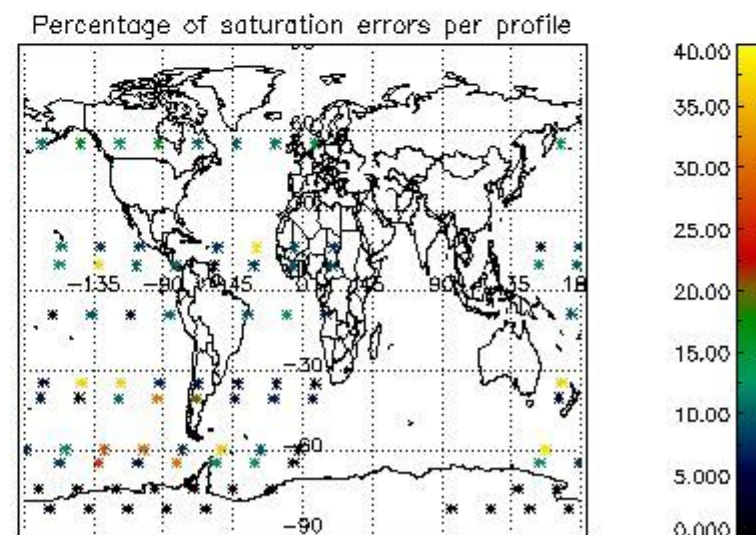
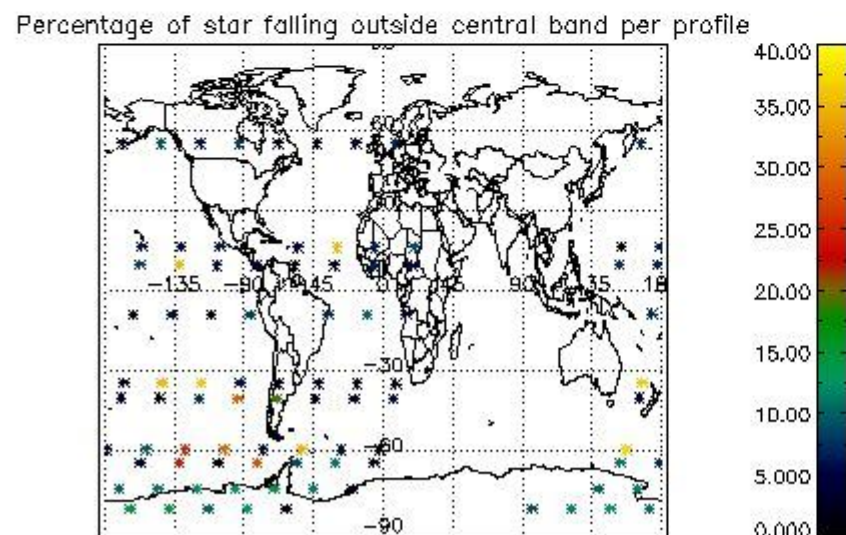
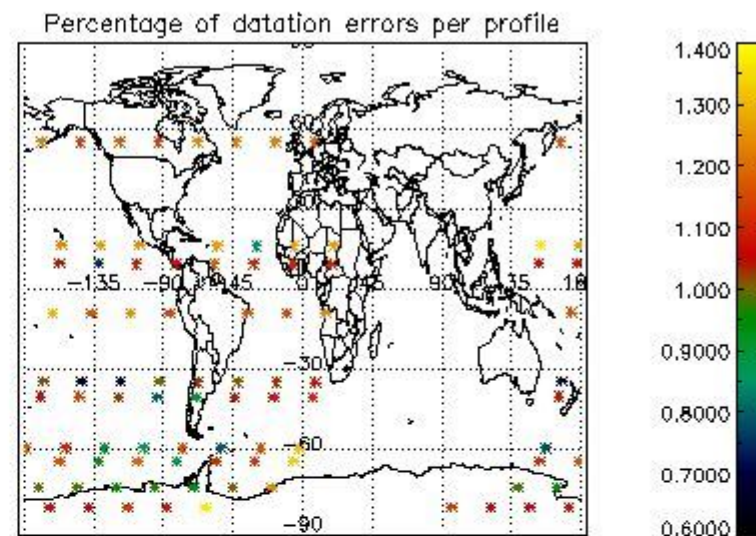
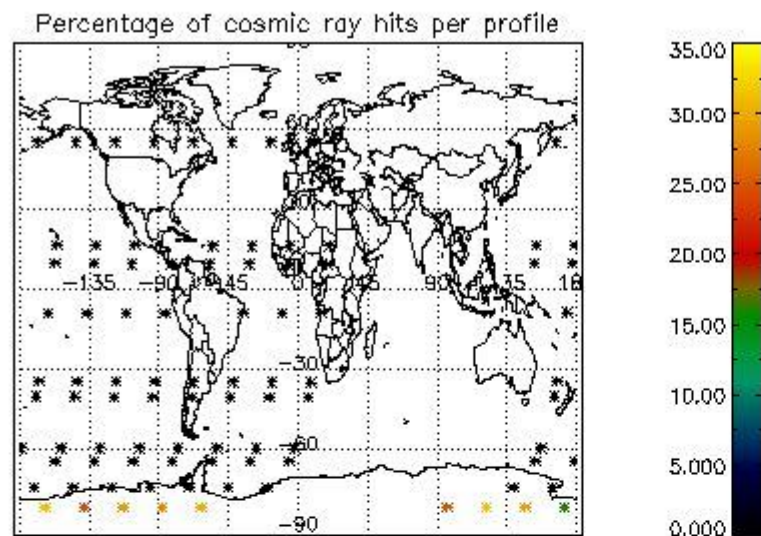
4.2 Plot quality information per product coming from level 1b processing (world map)

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





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

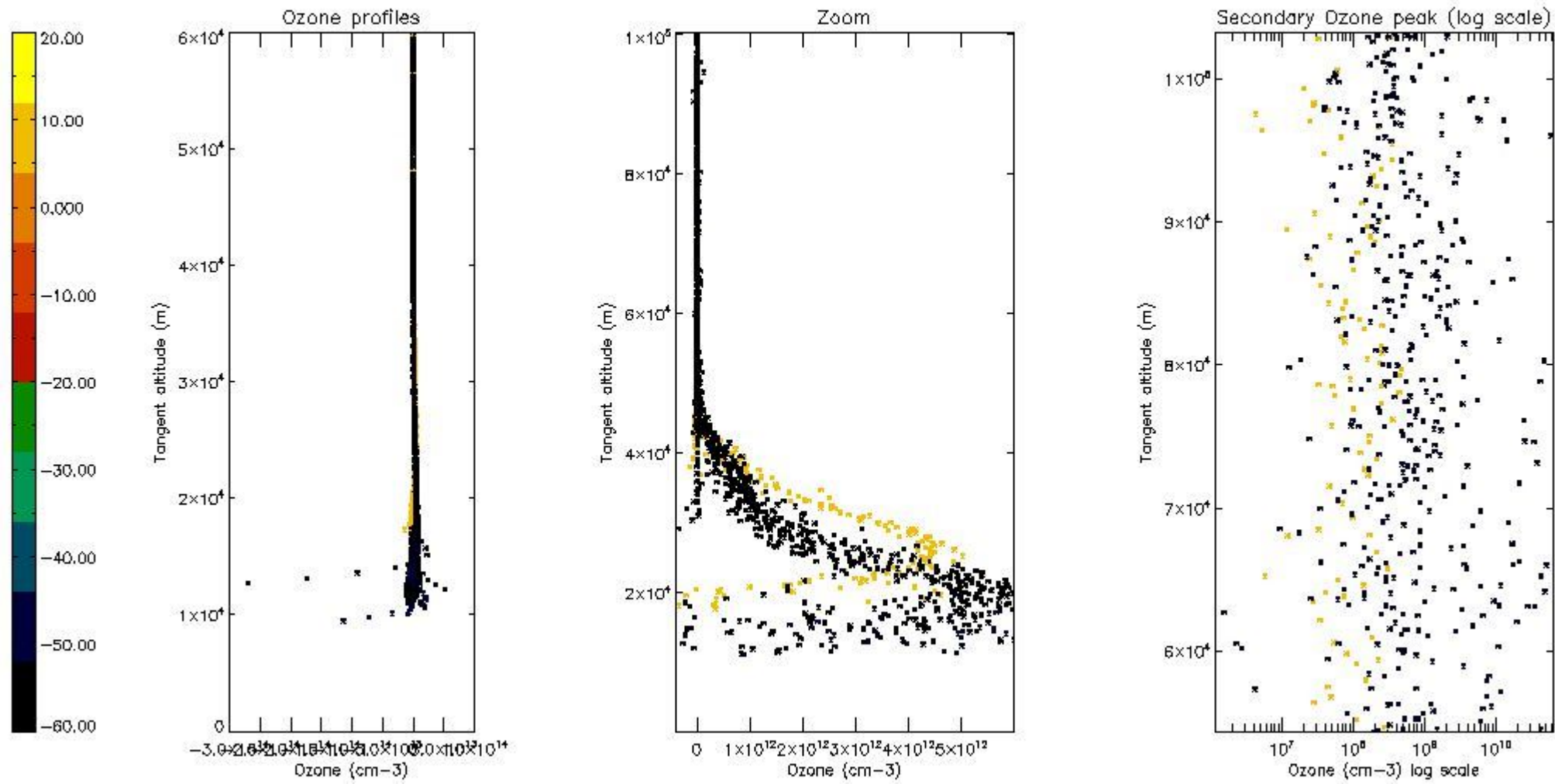
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	18
STD < 20	4

STD < 10	2
STD < 5	0

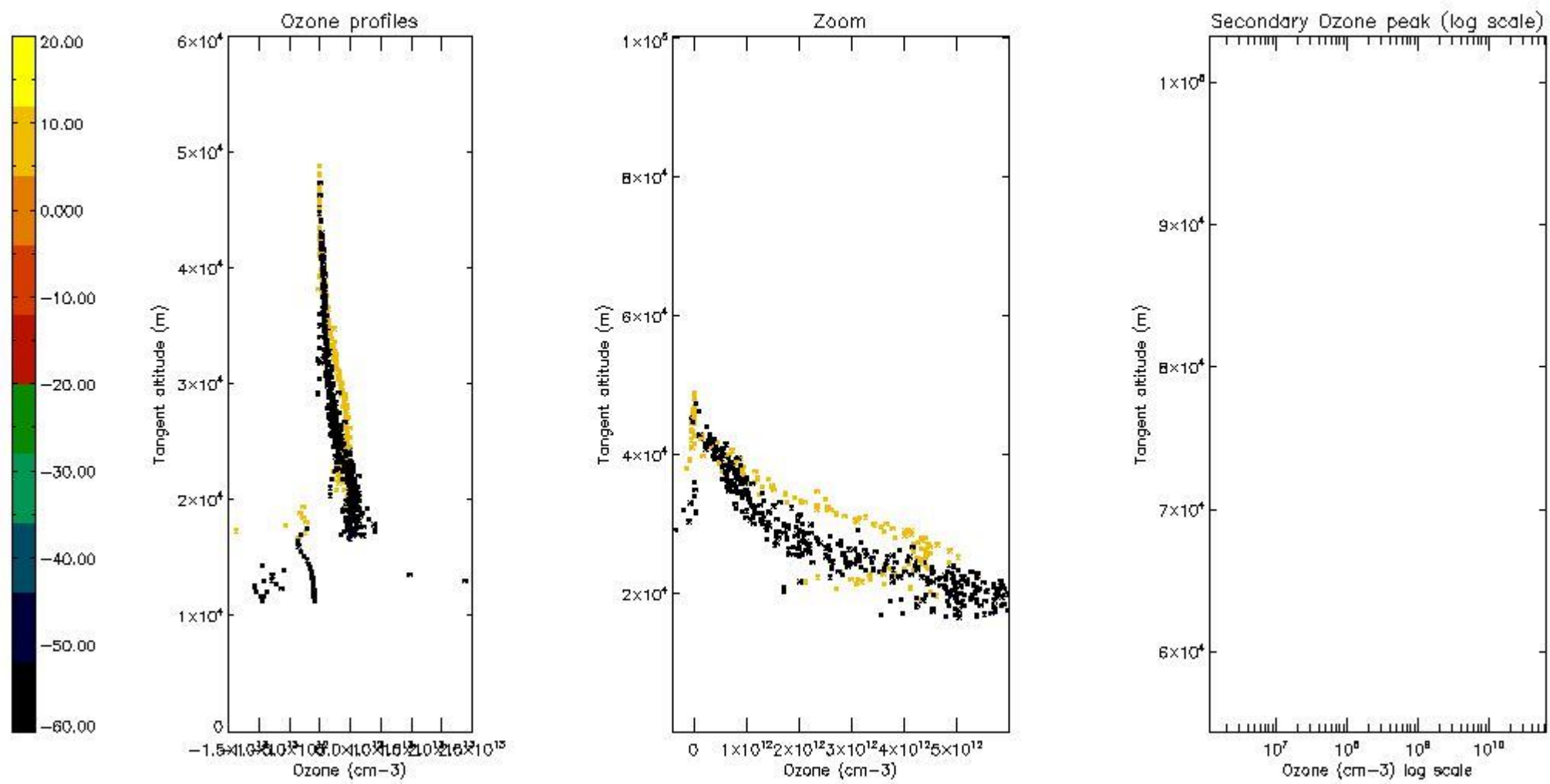
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



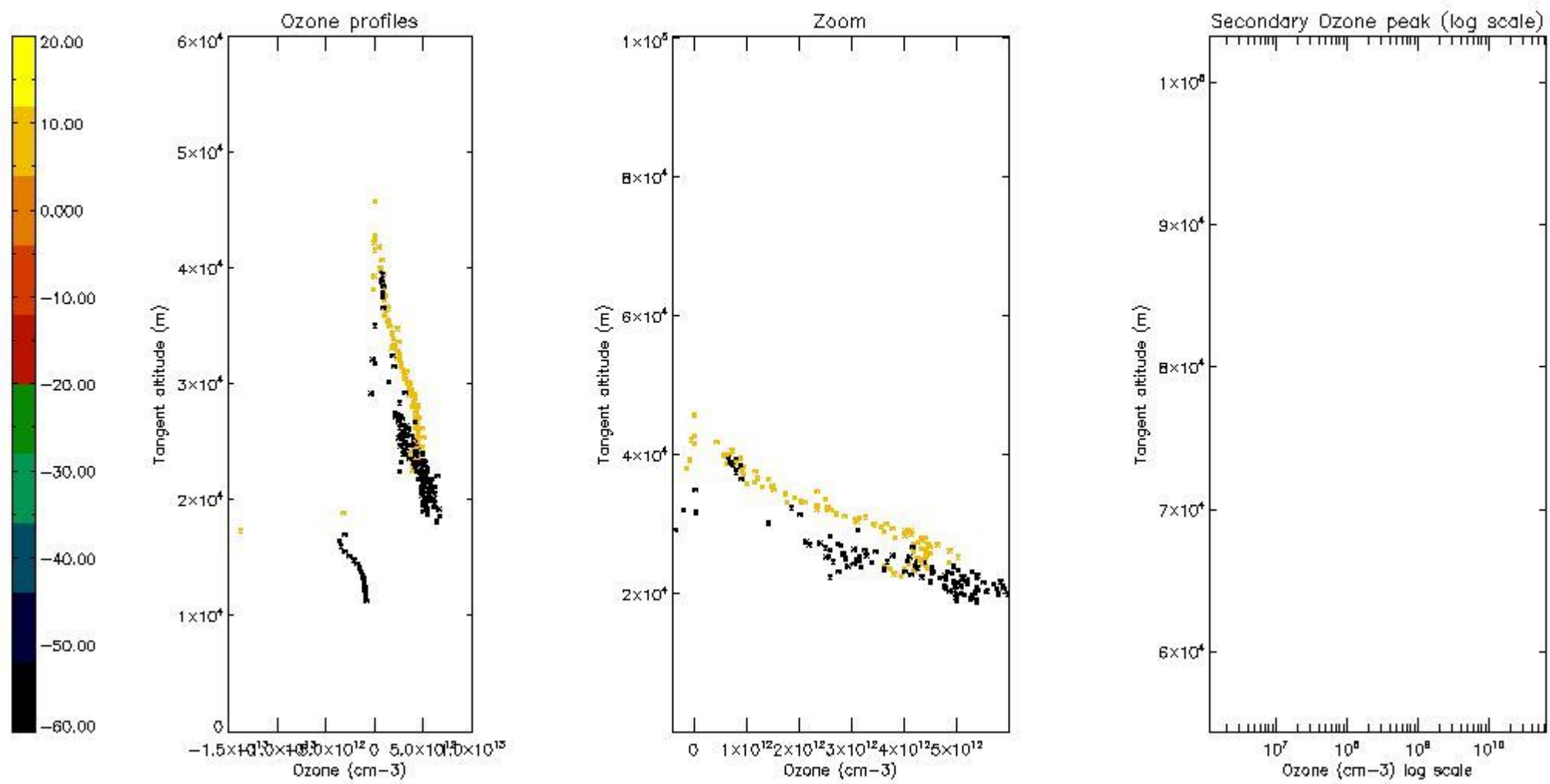
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



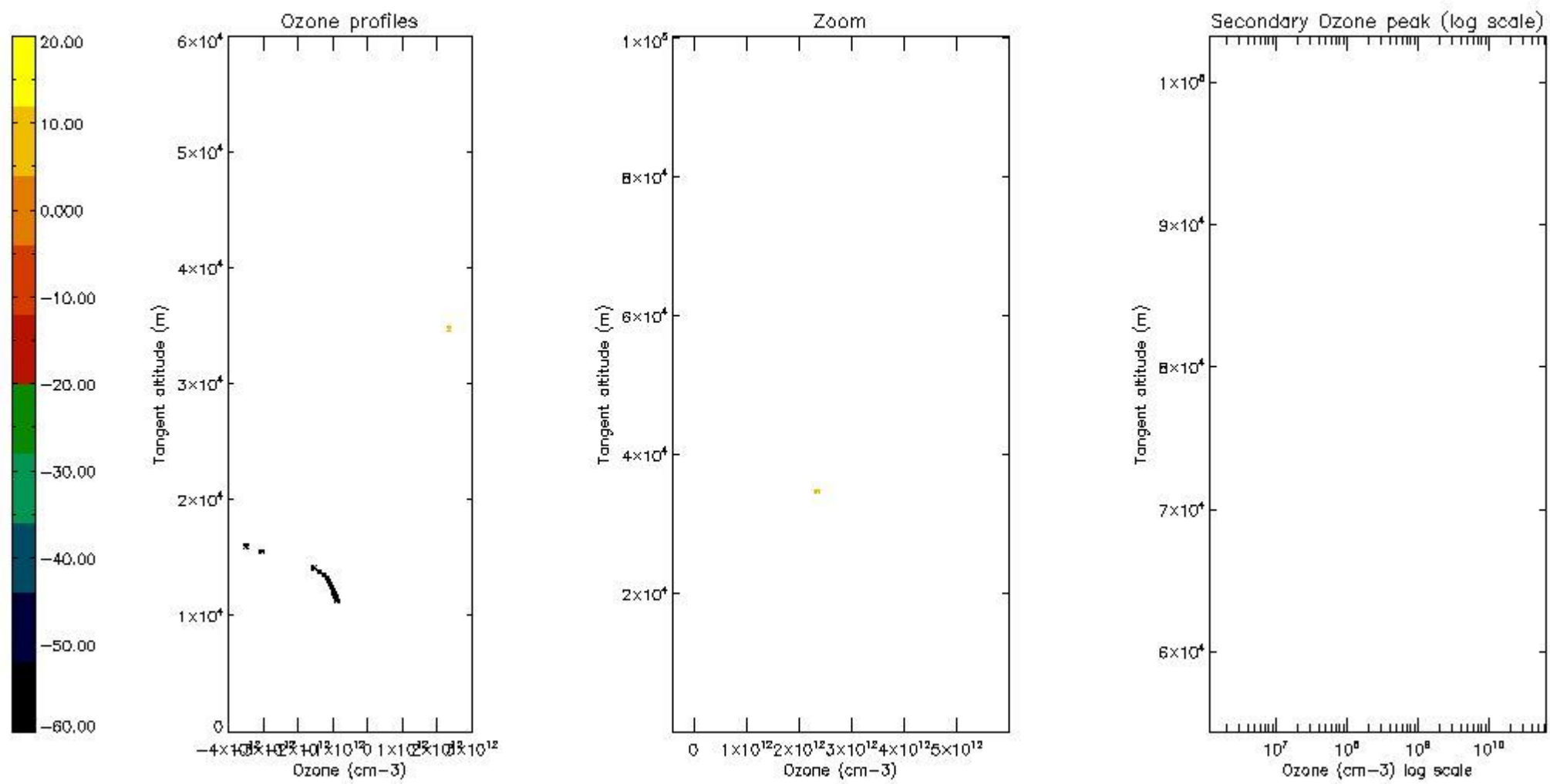
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



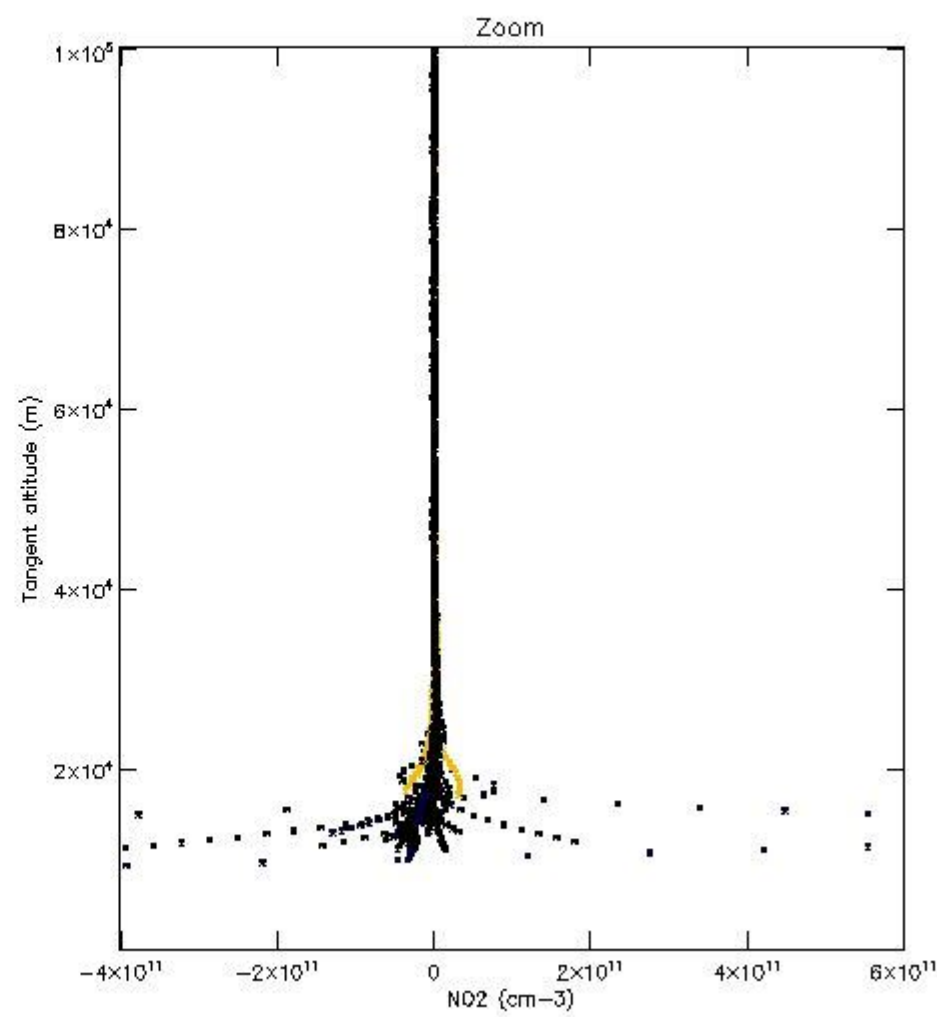
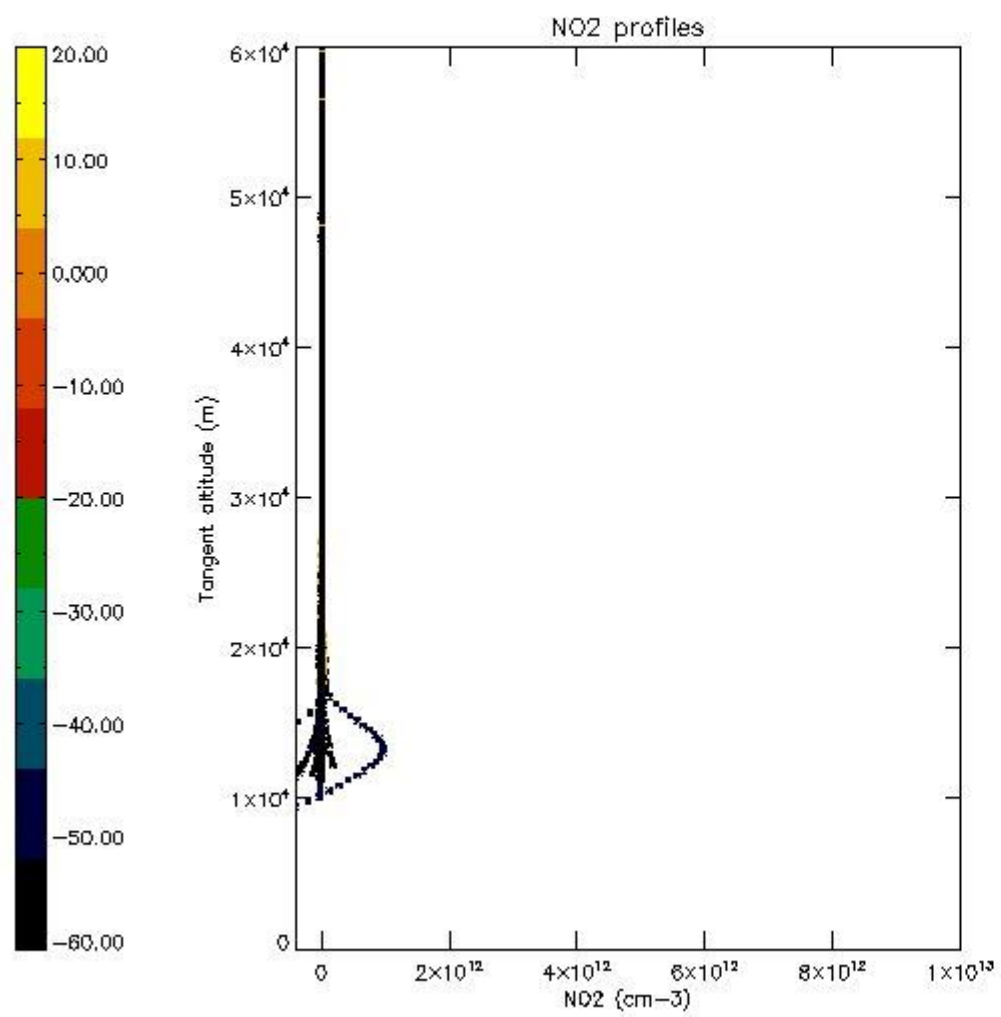
*5.5 Plot ozone profiles where  $STD < 5\%$  (dark without errors)*

The colorbar represents the latitude.



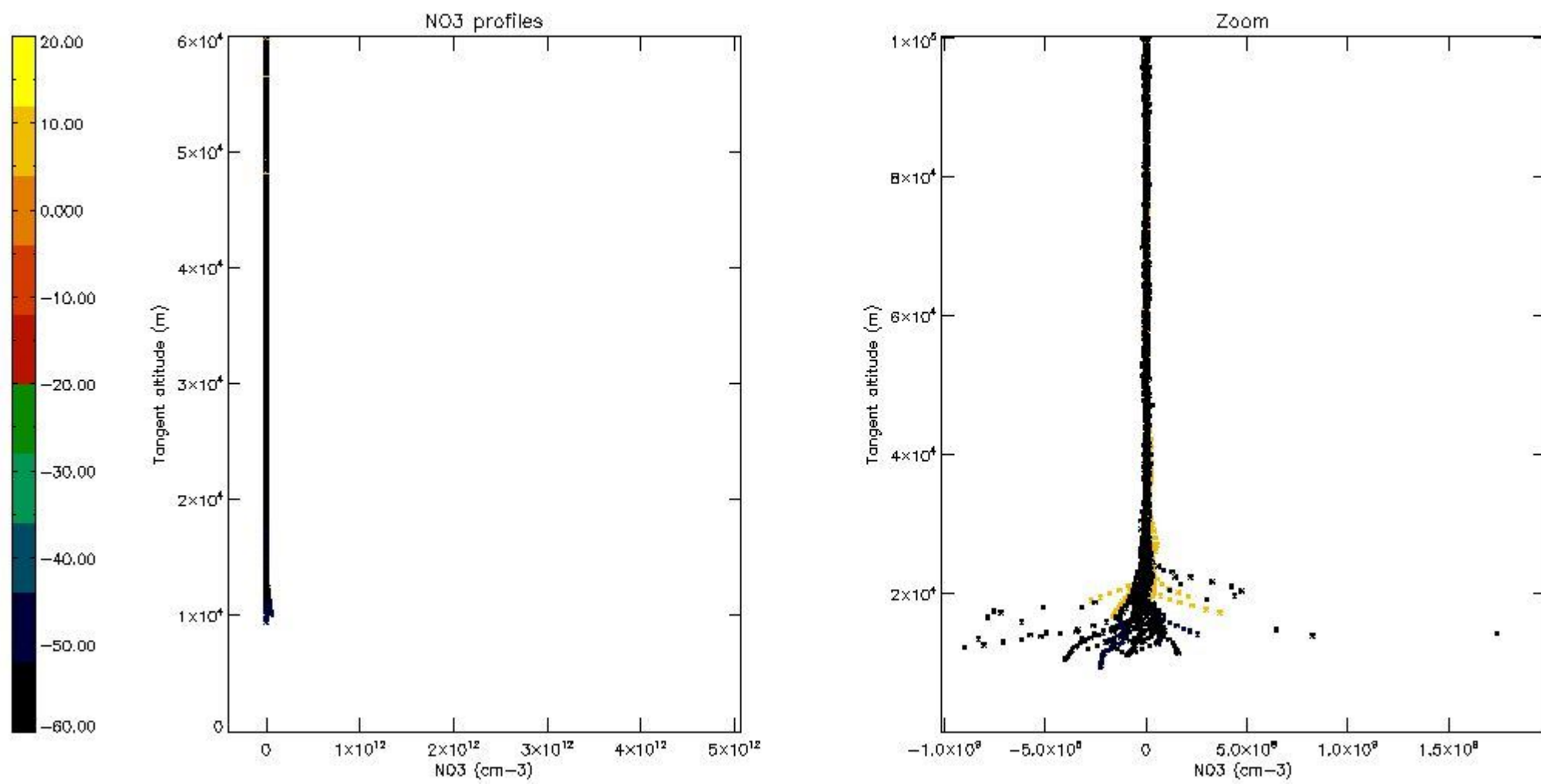
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

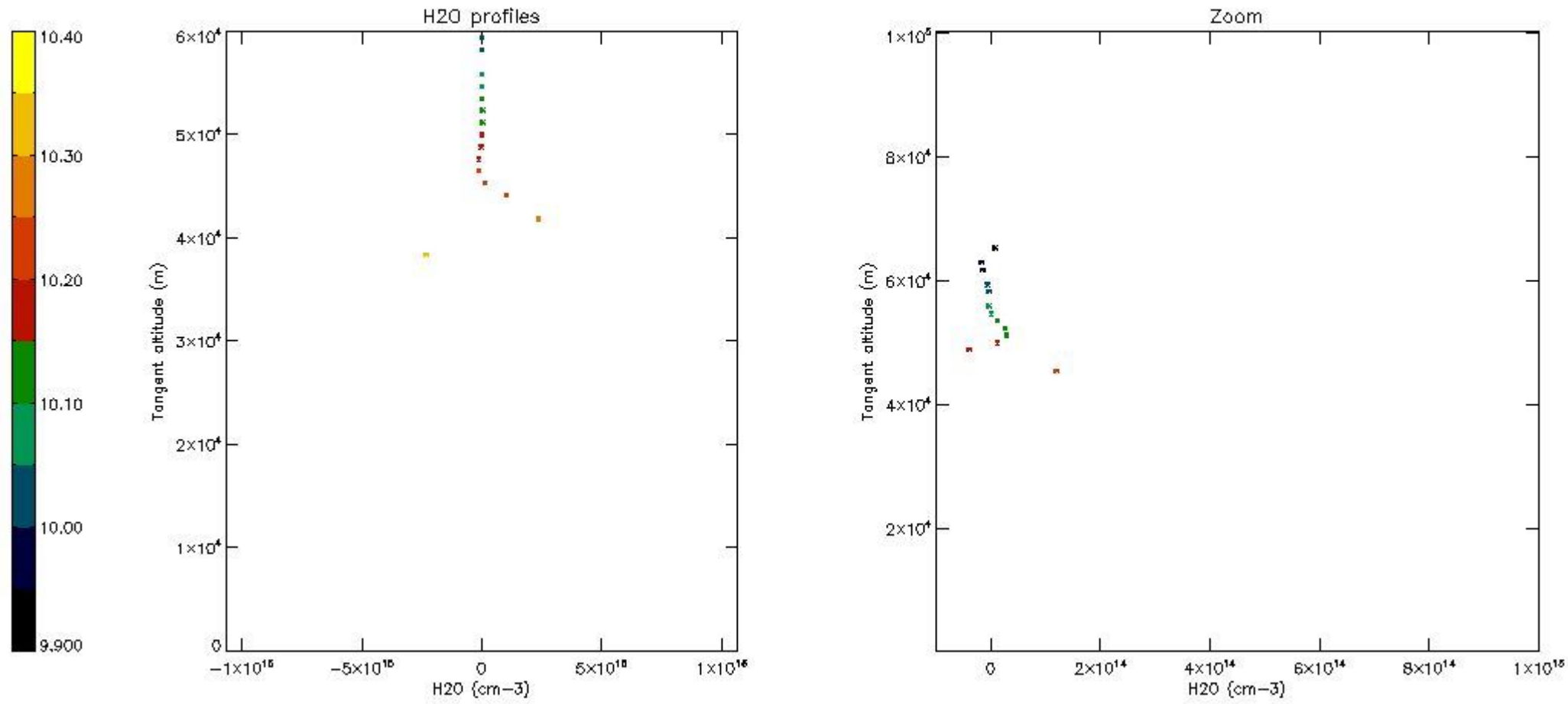
The colorbar represents the latitude.



*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	21-JUL-2009 08:10:07
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-JUL-2009 08:10:07
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-JUL-2009 08:10:07

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#### [4.1 Plot of level 1 quality information per product \(time dependant\)](#)

##### [4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

##### [4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

#### [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](#)

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

### [5. Ozone profiles based on quality statistics and other trace gas profiles](#)

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

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

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

### [6. Auxiliary Data Files used for the production reported in section 2](#)

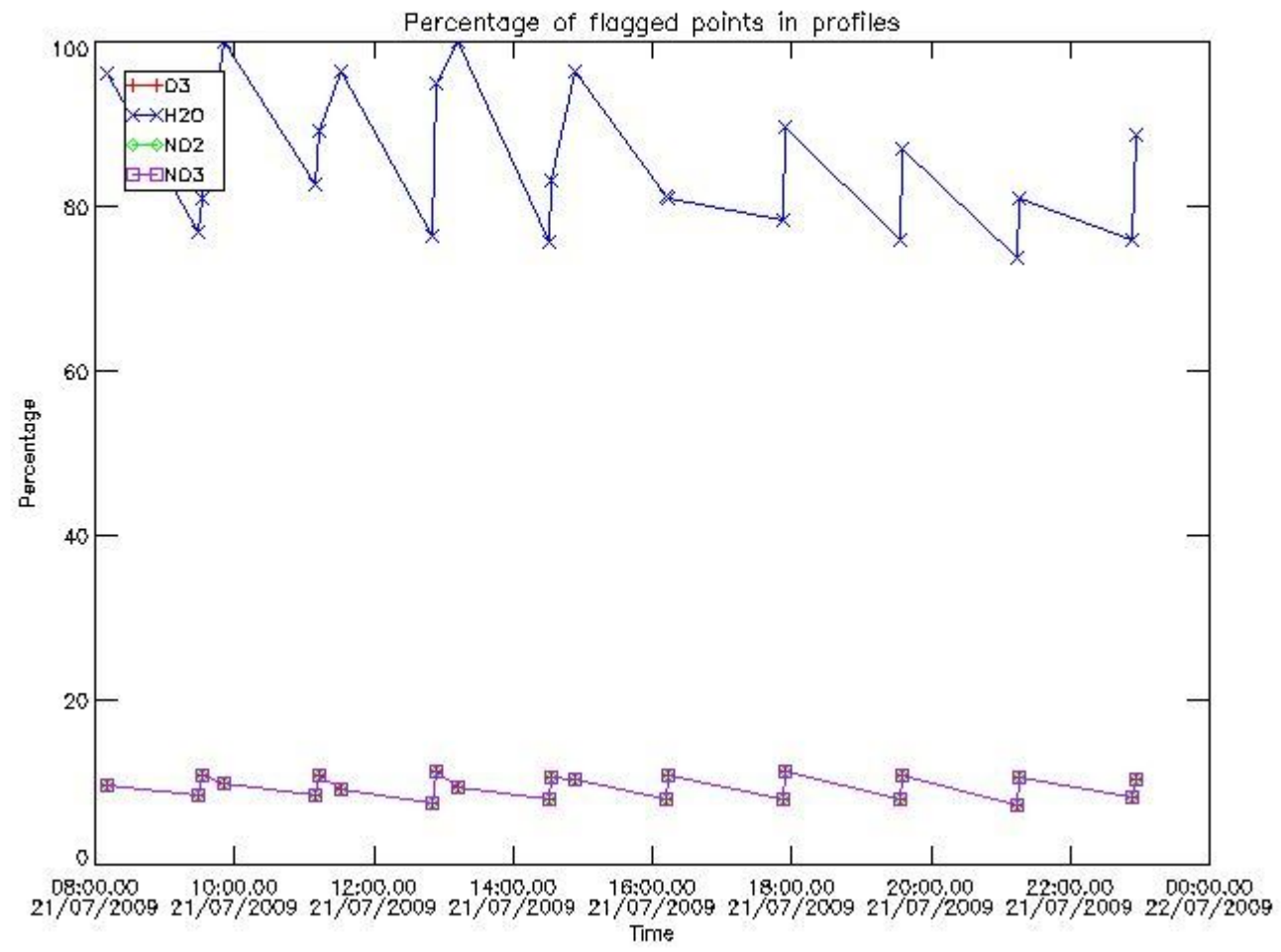






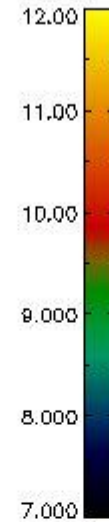
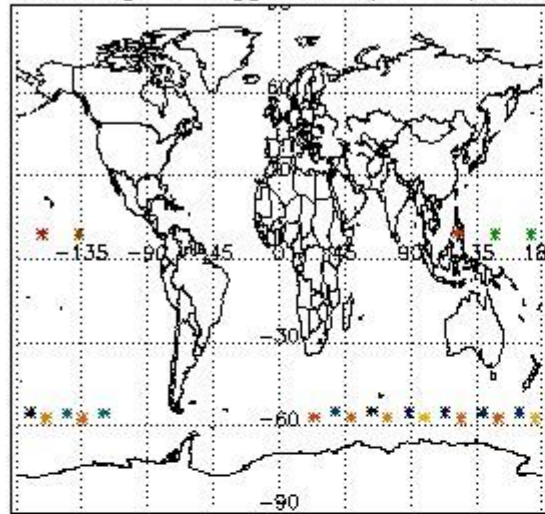
the MPH set to "0") are used.

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

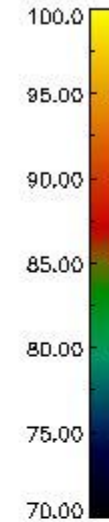
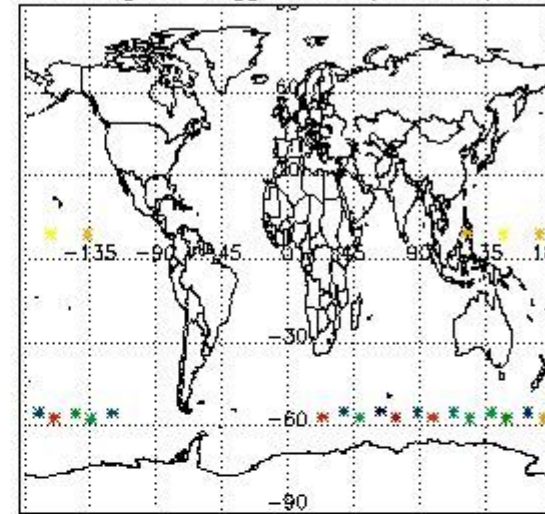


### 3.2 Plot quality information per product (world map)

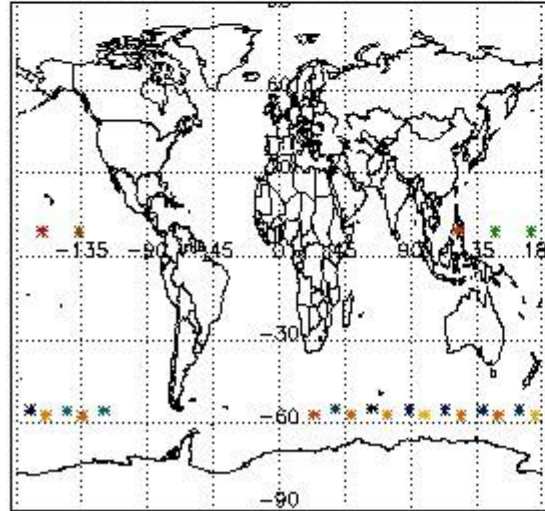
Percentage of flagged data per O3 profile



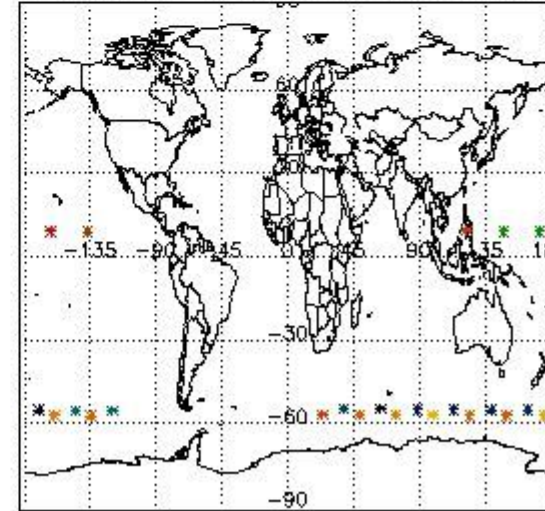
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

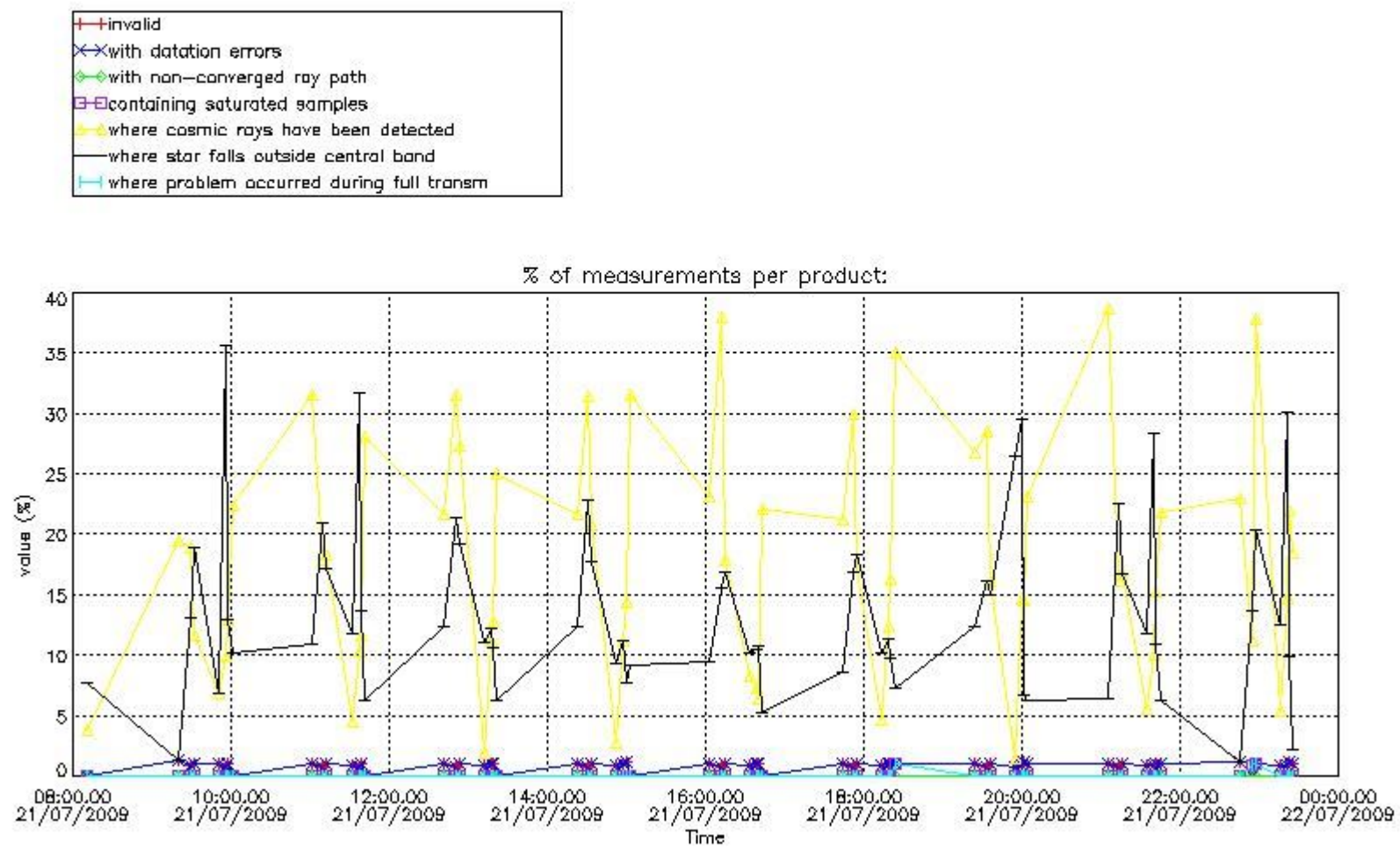


#### 4. Level 1 quality information per product

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.

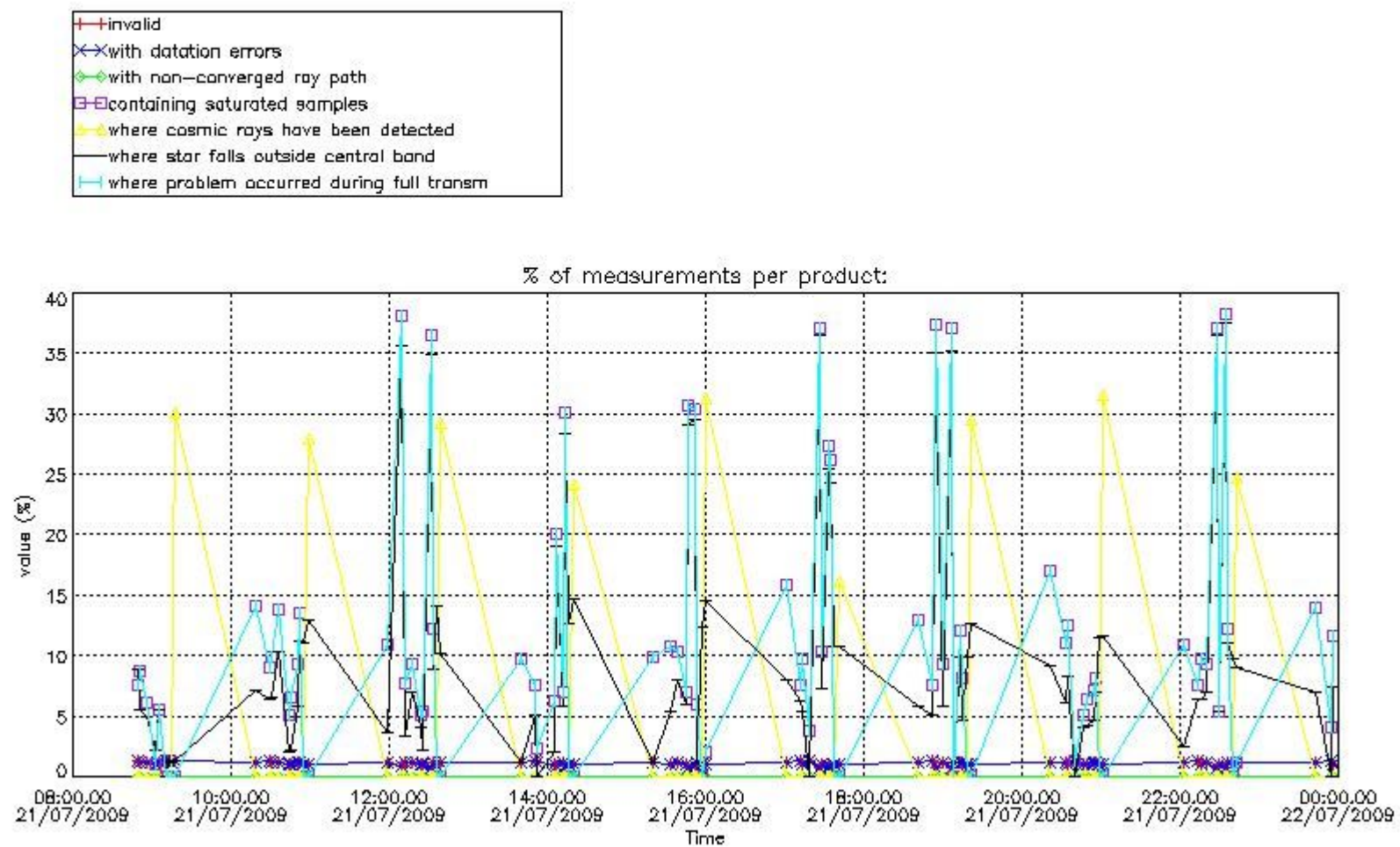
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

###### 4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes



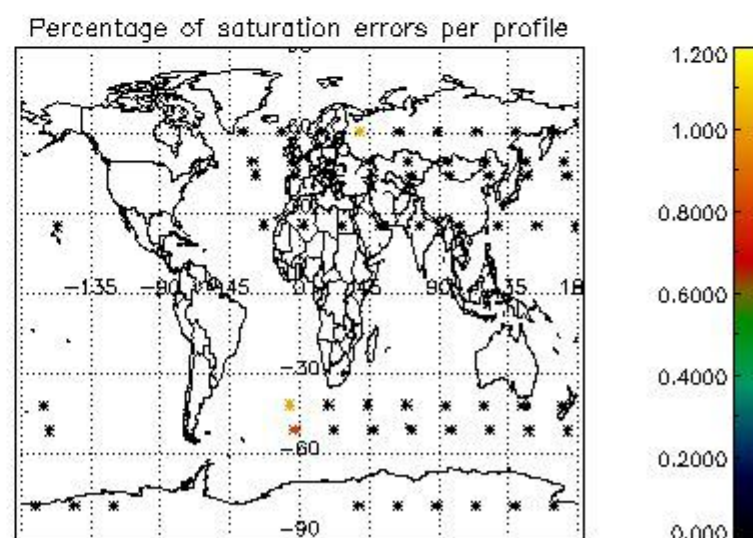
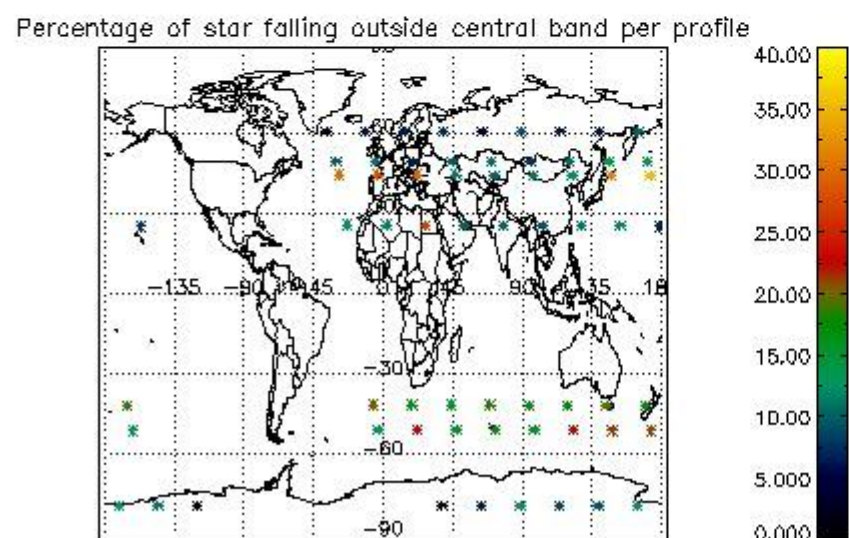
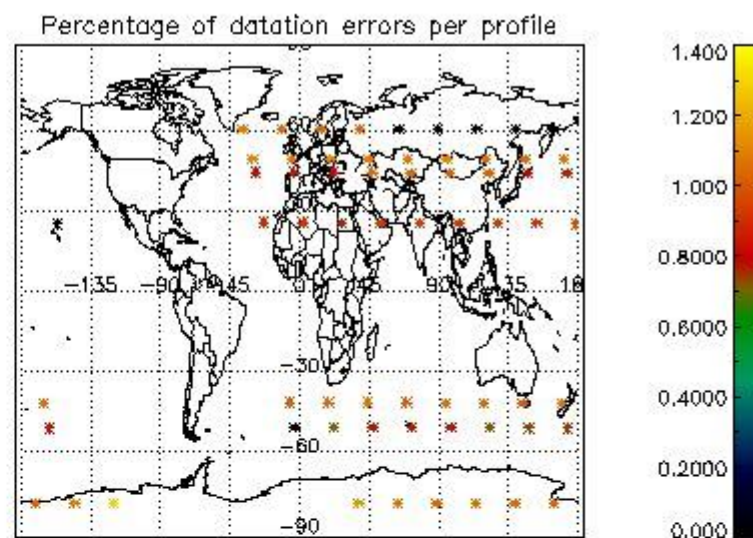
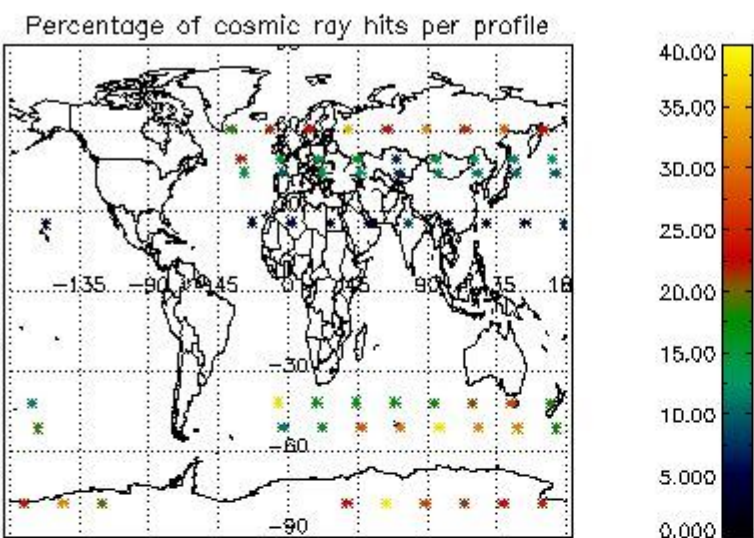
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



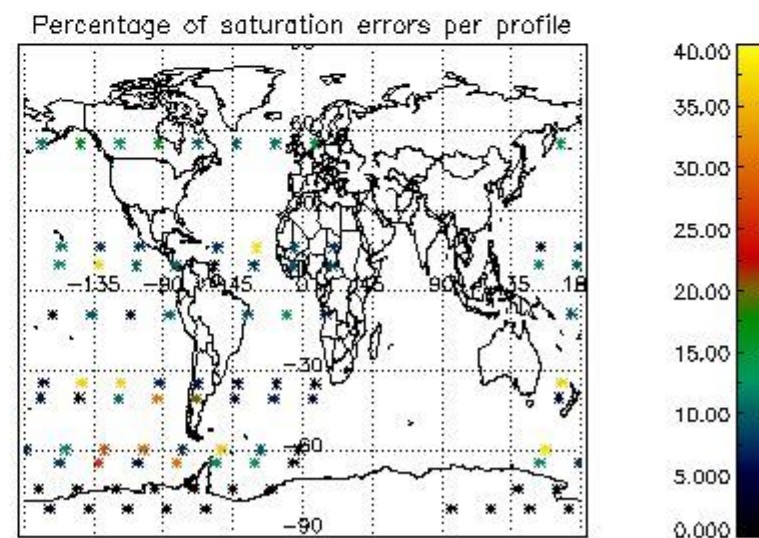
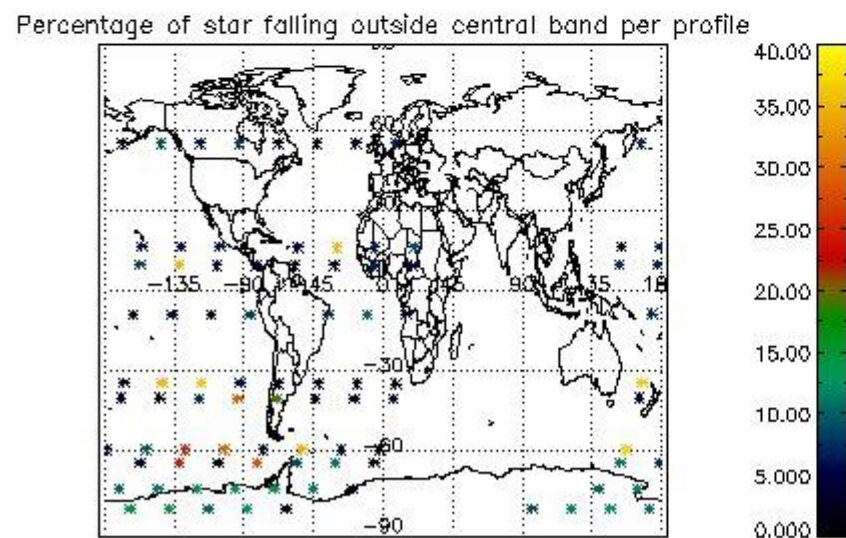
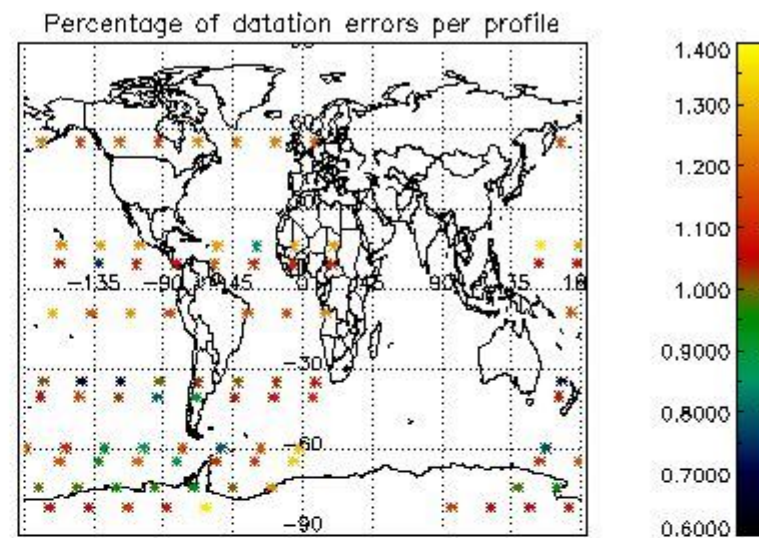
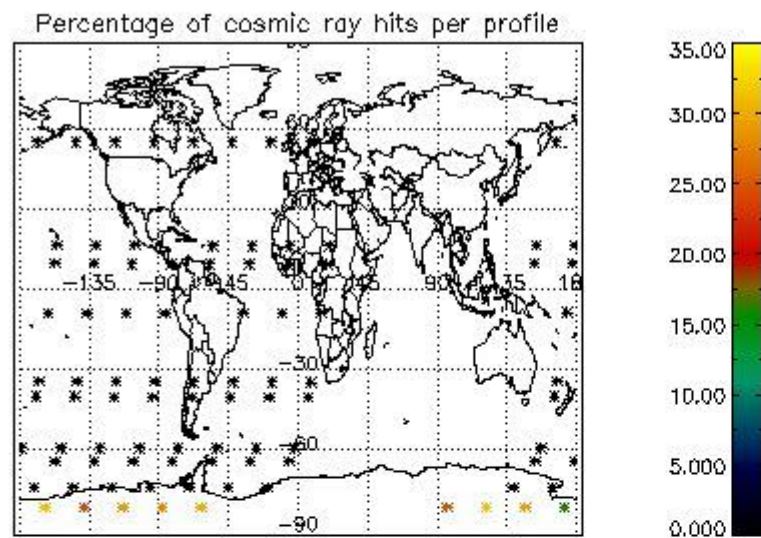


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

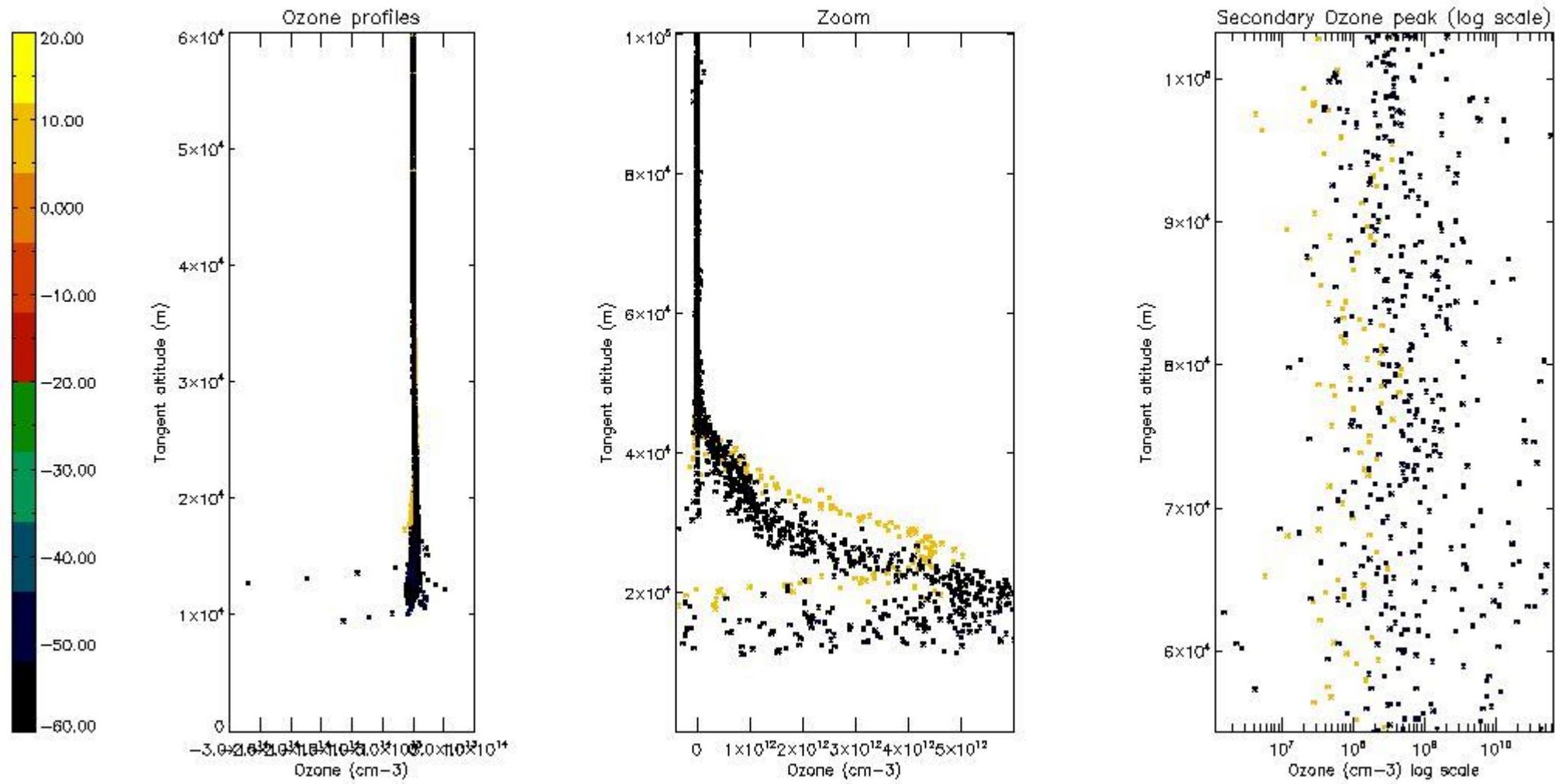
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	18
STD < 20	4

STD < 10	2
STD < 5	0

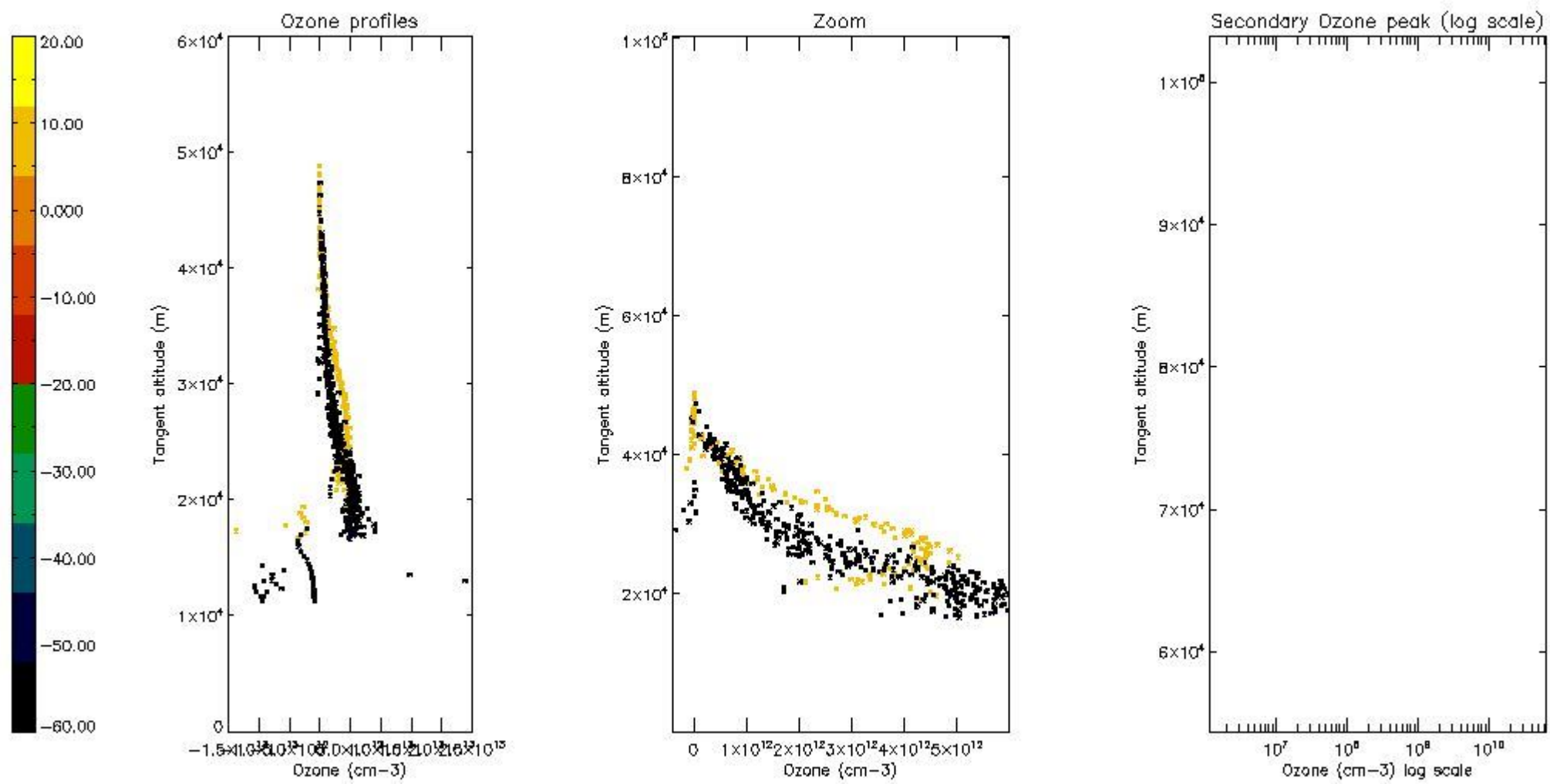
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



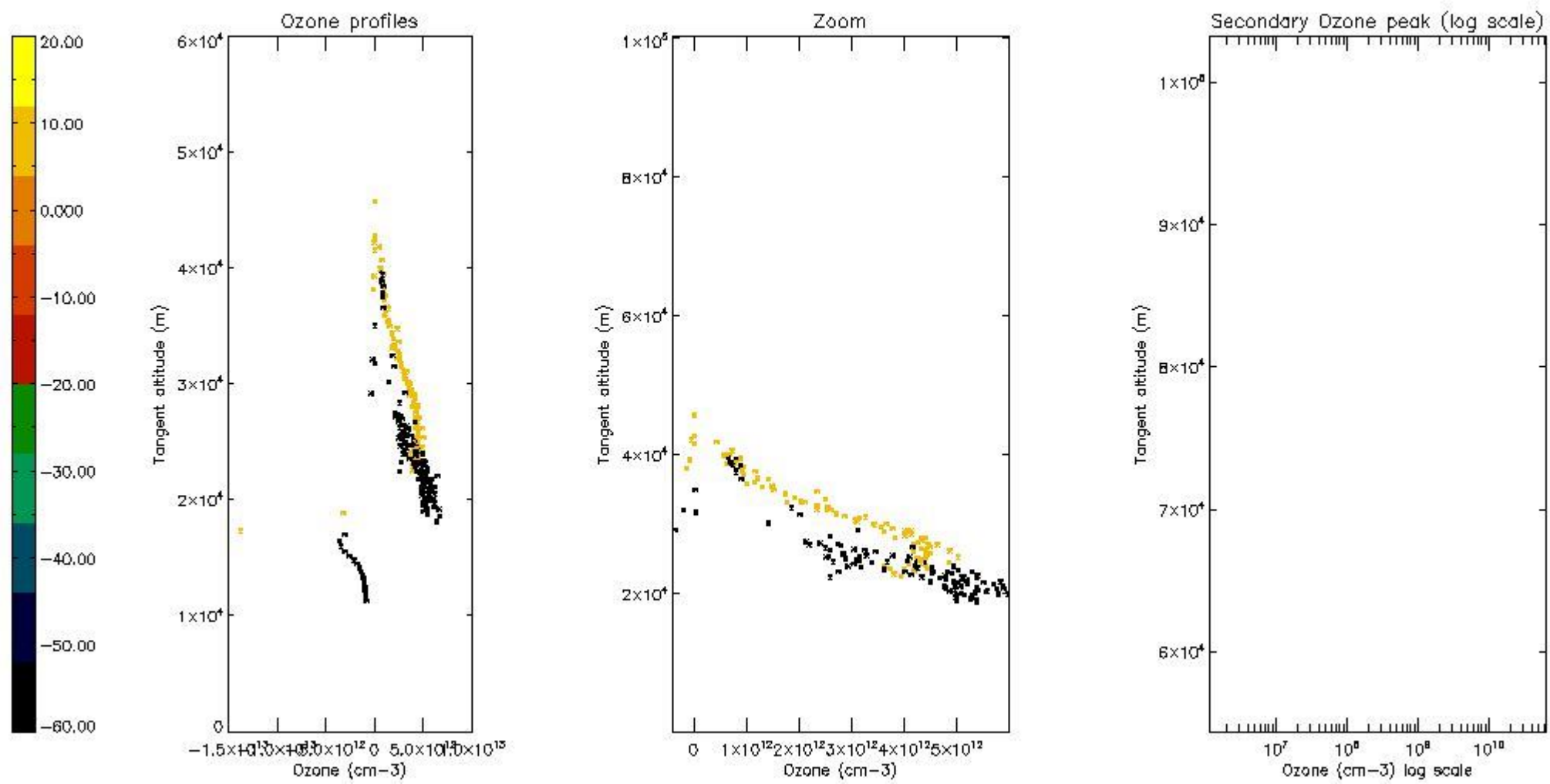
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



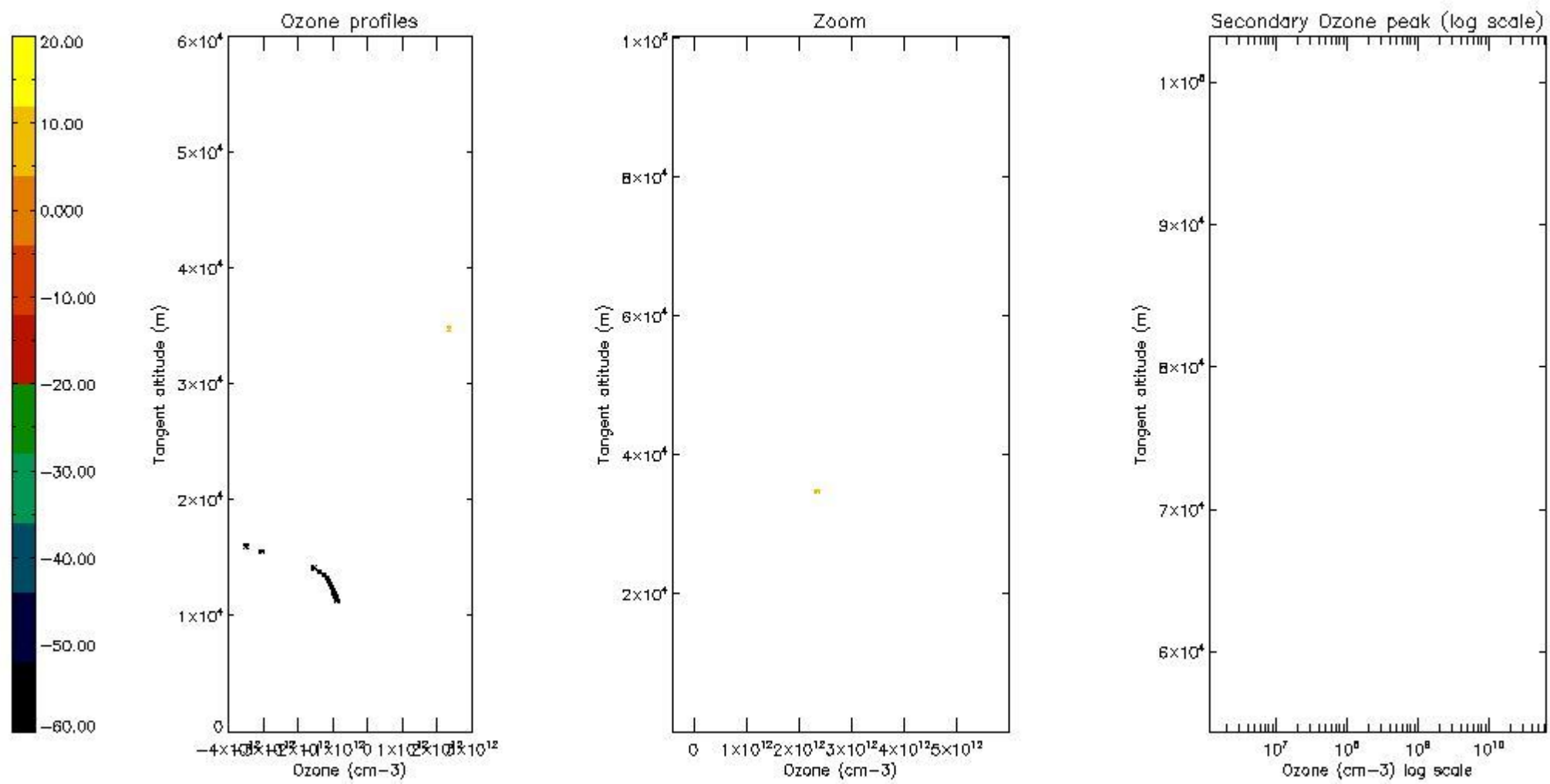
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



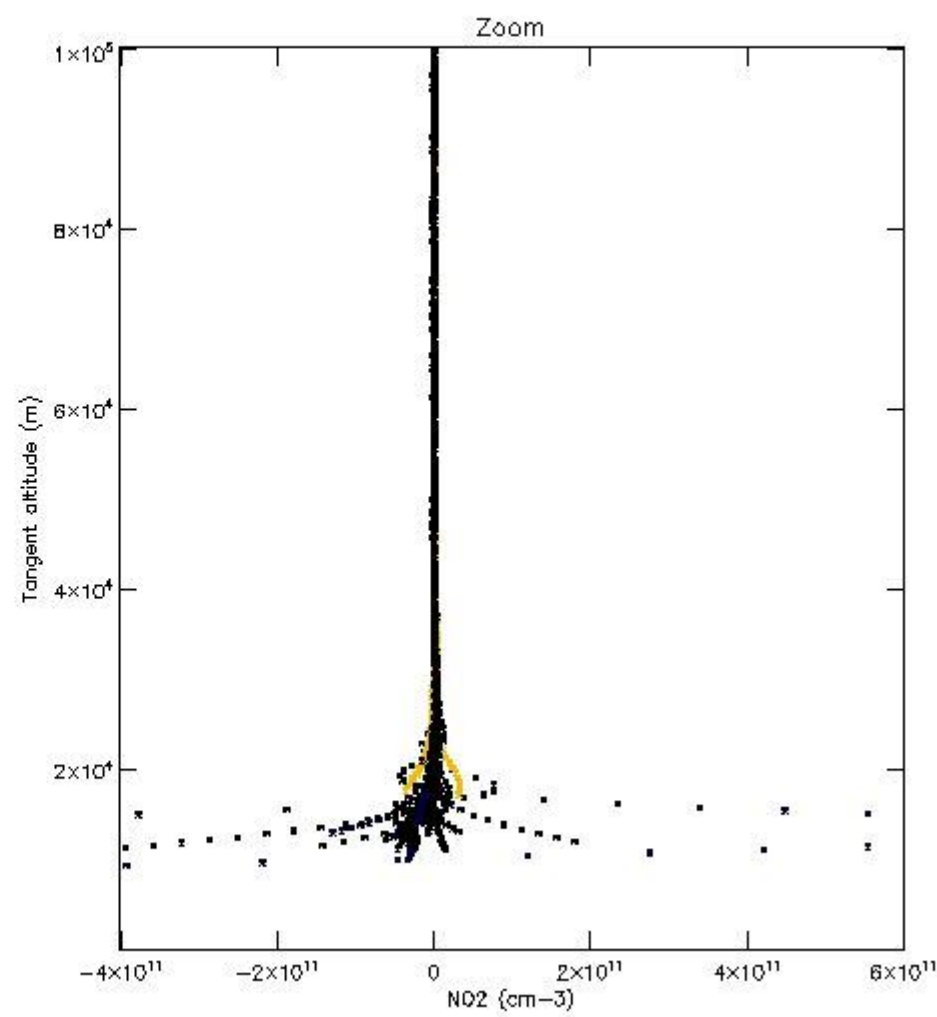
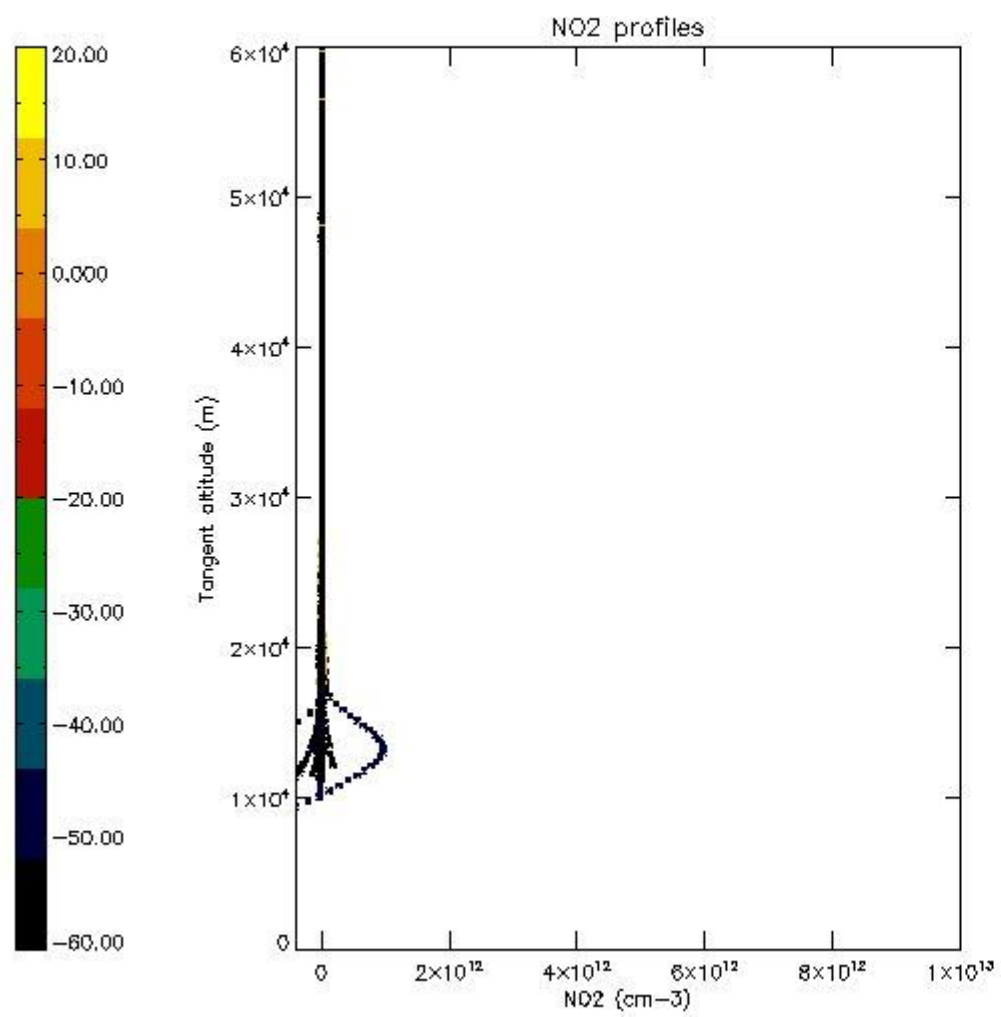
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



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

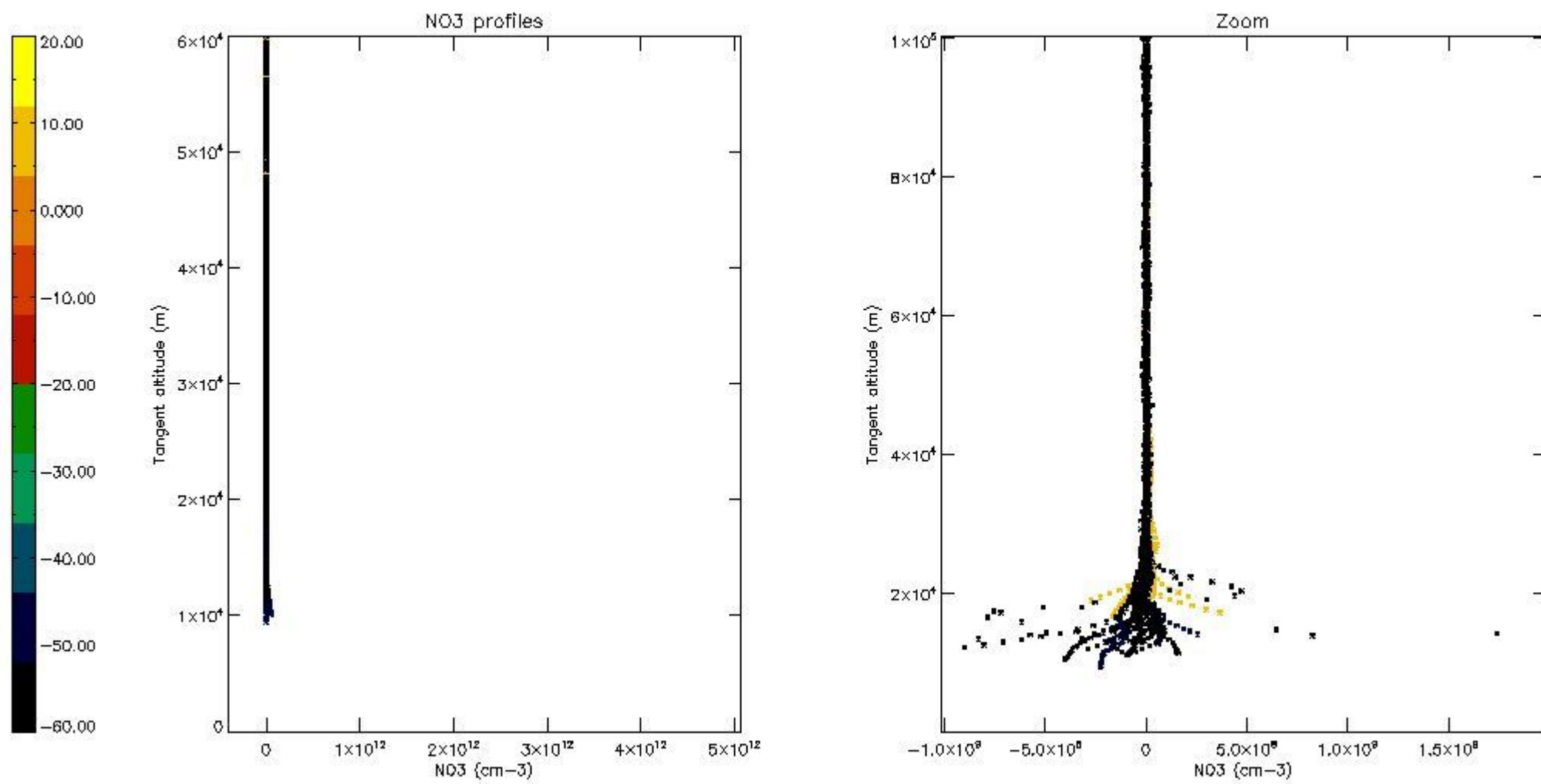
The colorbar represents the latitude.



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

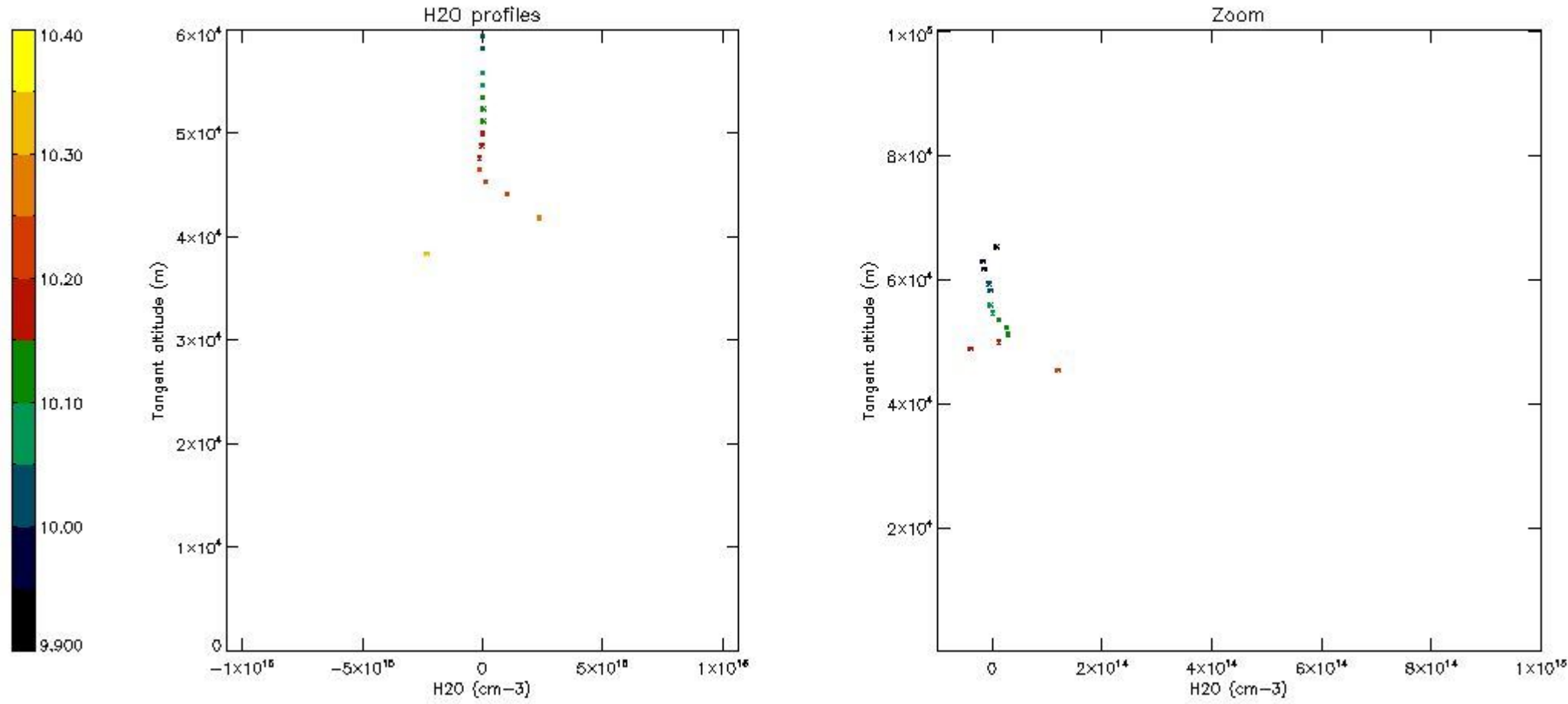
The colorbar represents the latitude.





*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)*

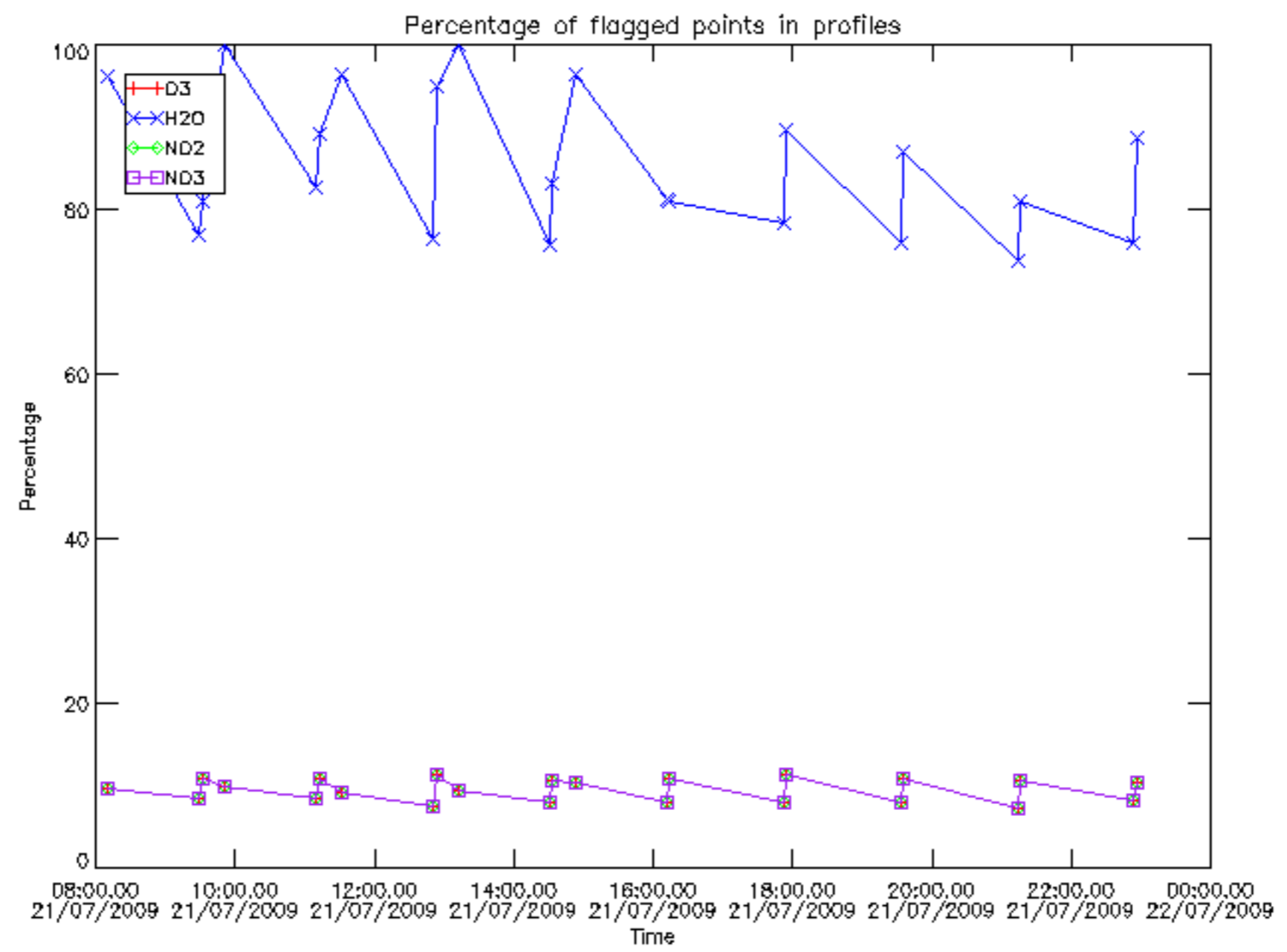
The colorbar represents the latitude.



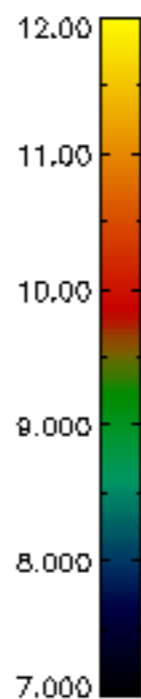
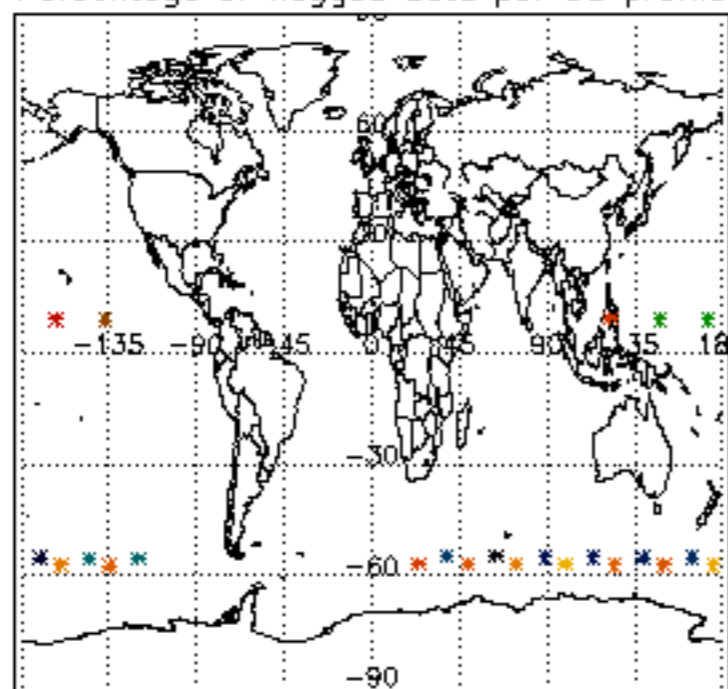
## 6. Auxiliary Data Files used for the production reported in section 2

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.

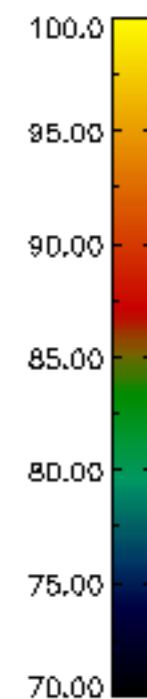
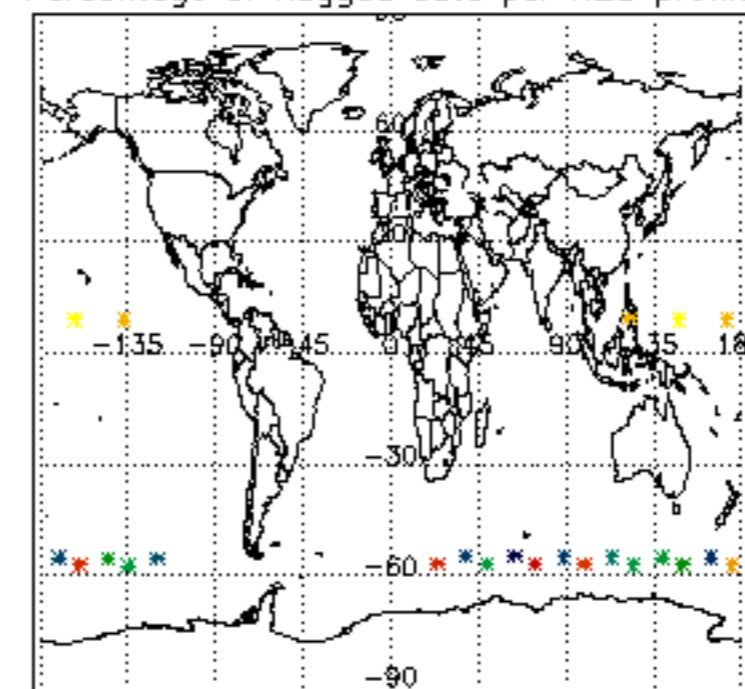
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	21-JUL-2009 08:10:07
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-JUL-2009 08:10:07
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-JUL-2009 08:10:07



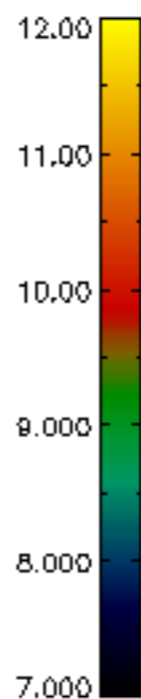
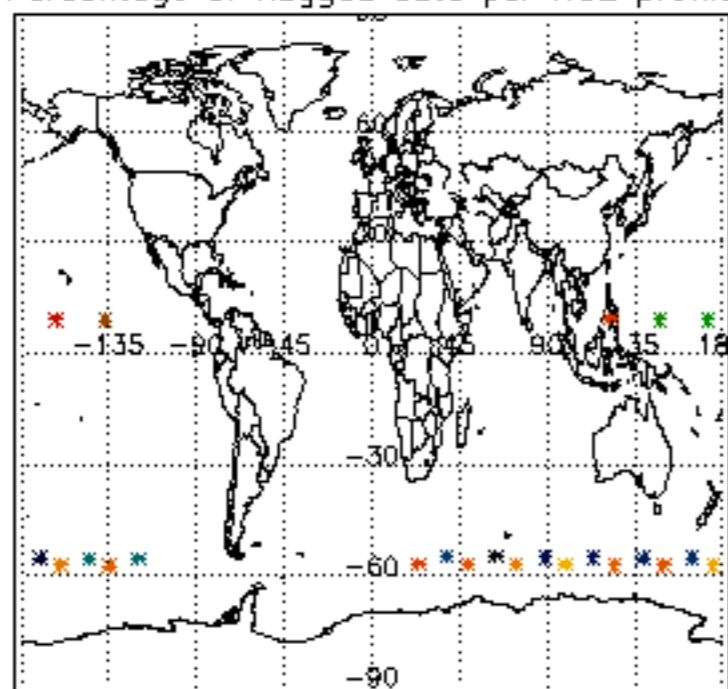
Percentage of flagged data per D3 profile



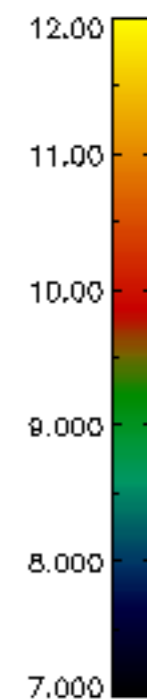
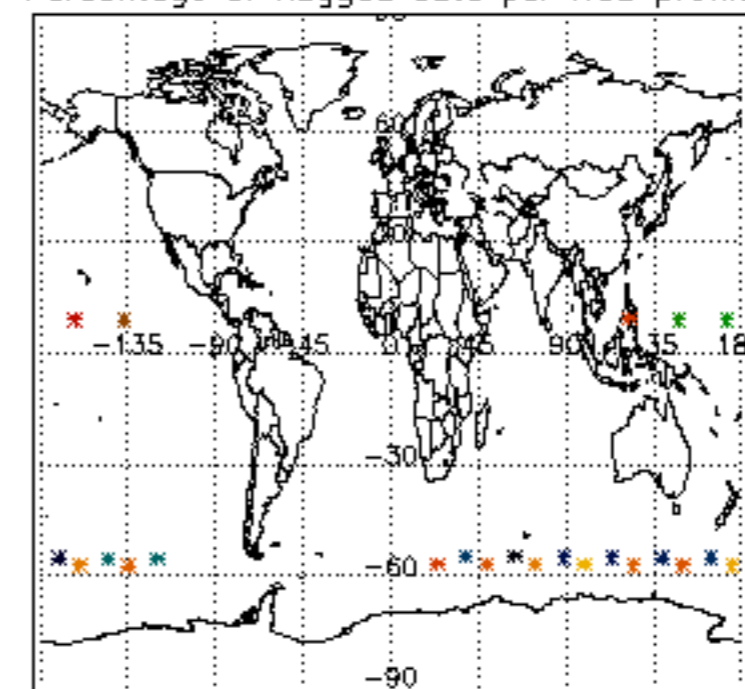
Percentage of flagged data per H2O profile

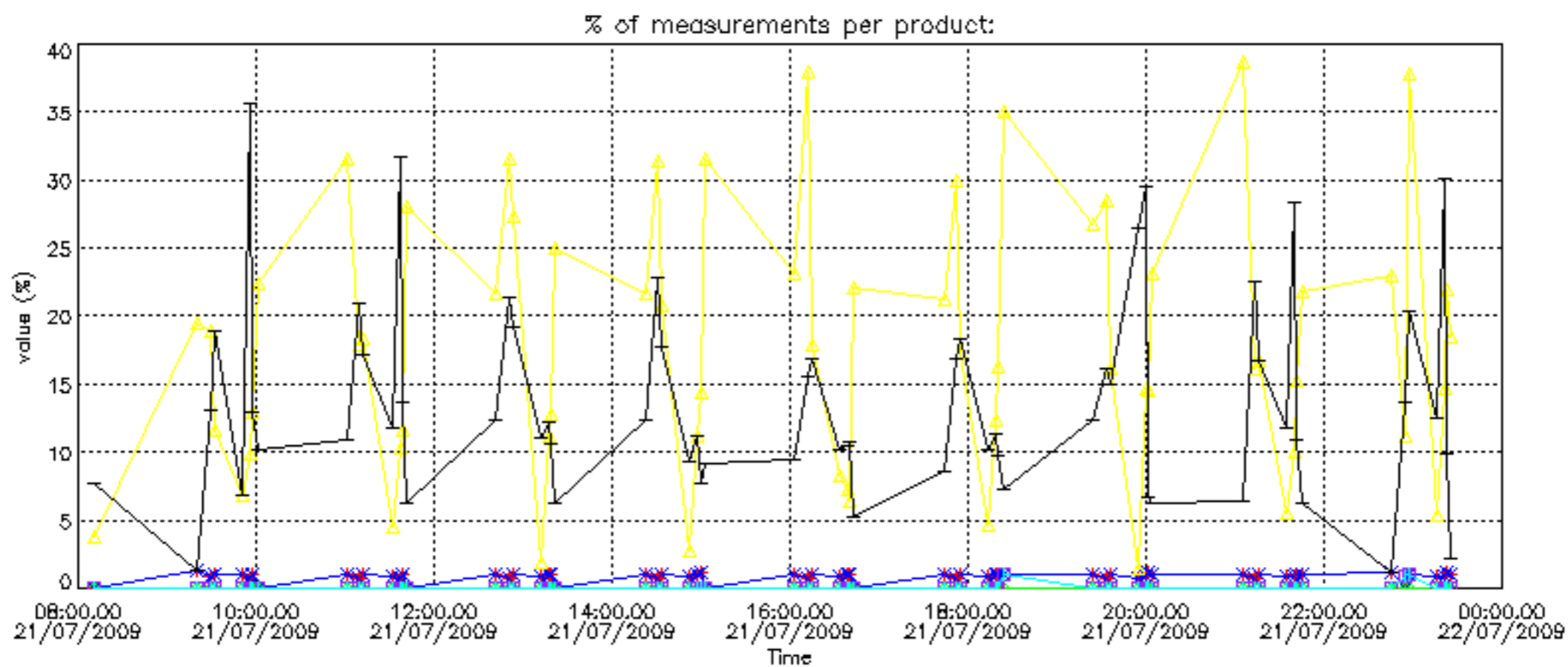


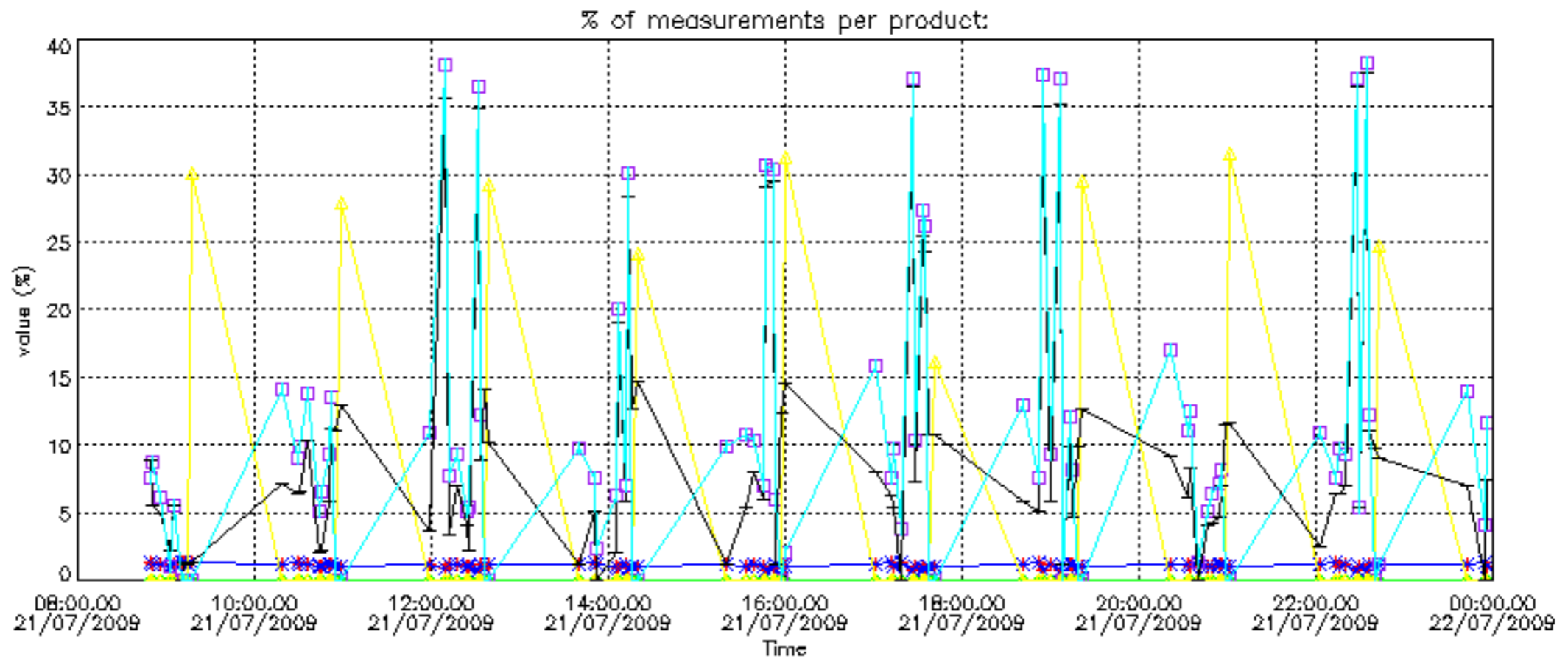
Percentage of flagged data per NO2 profile



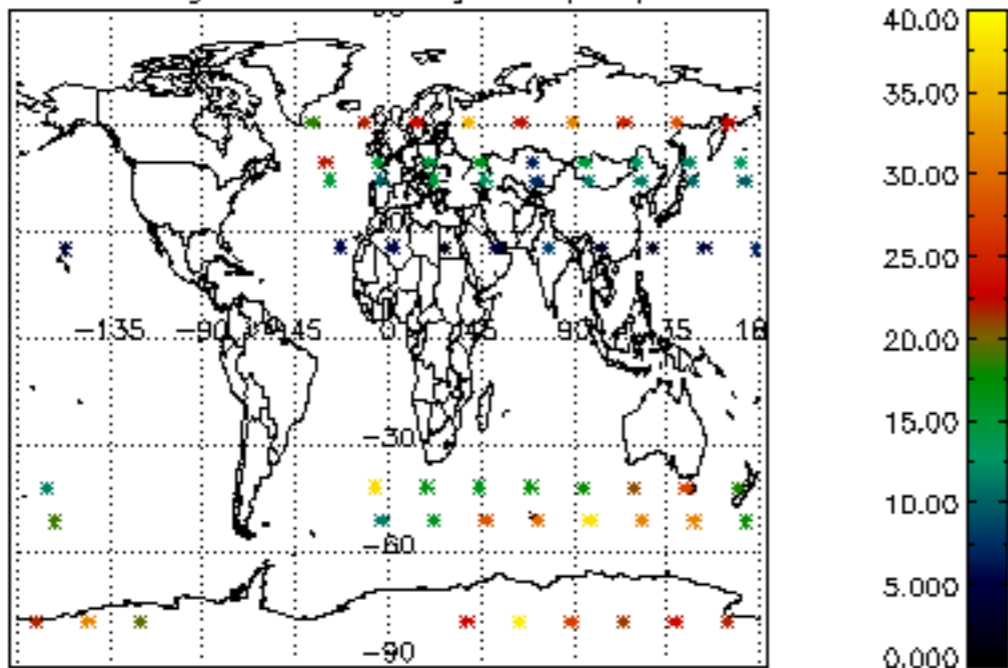
Percentage of flagged data per NO3 profile



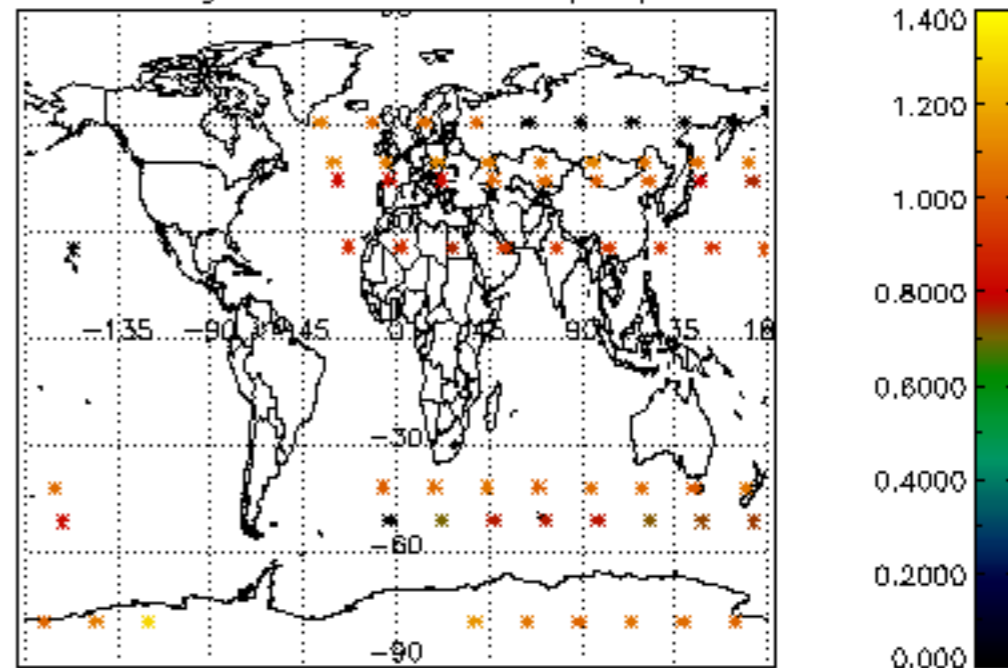




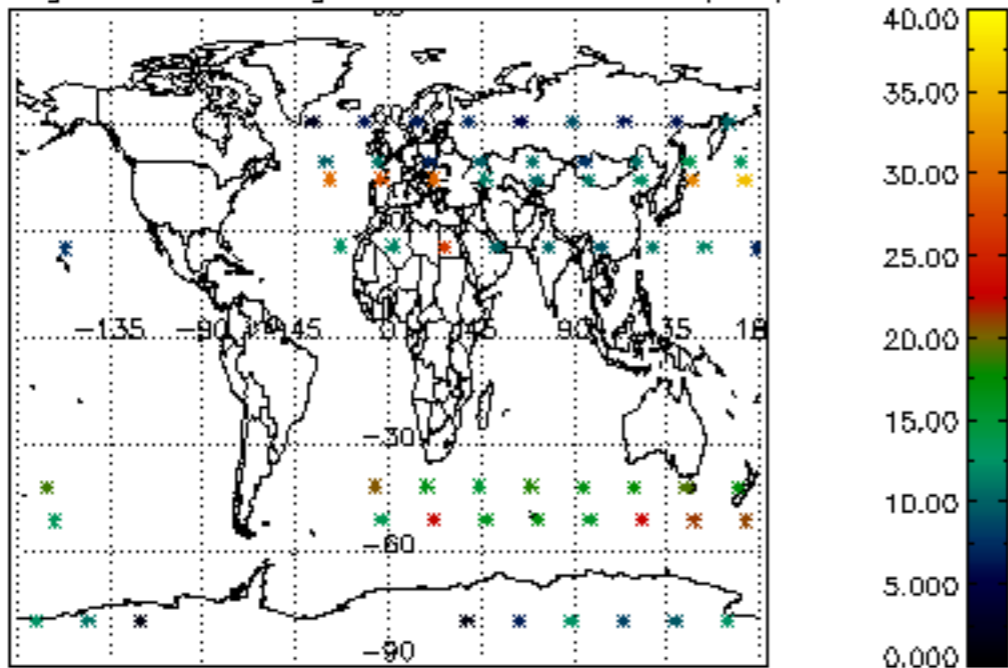
Percentage of cosmic ray hits per profile



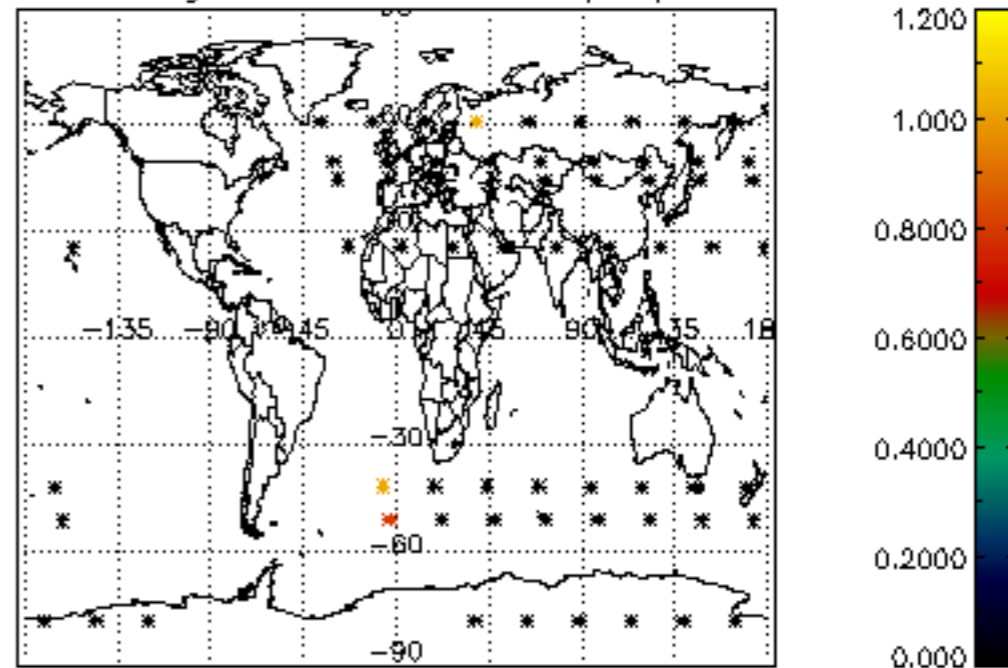
Percentage of datation errors per profile



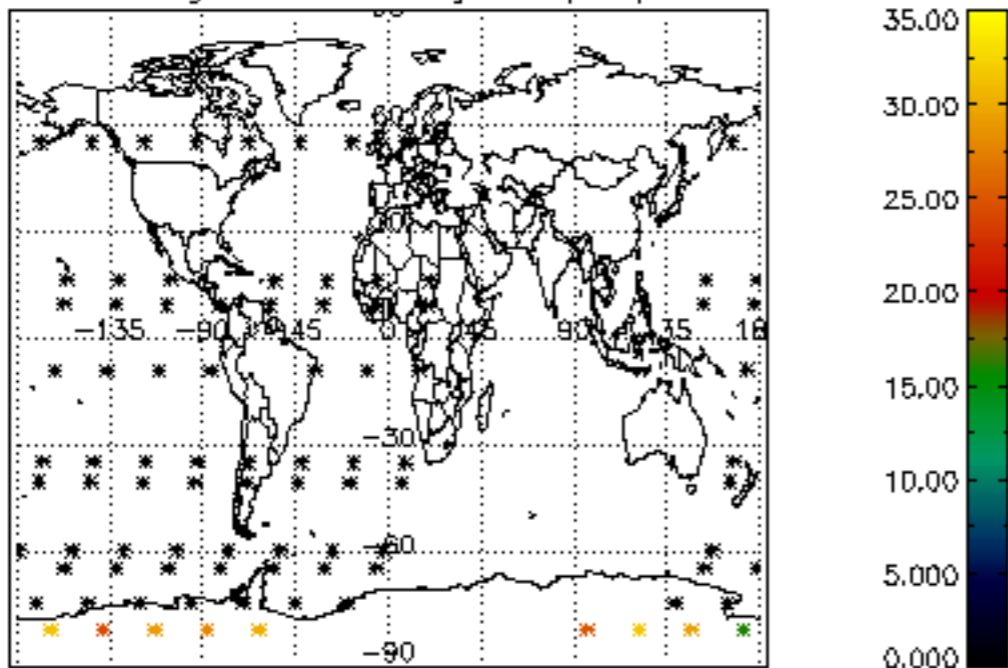
Percentage of star falling outside central band per profile



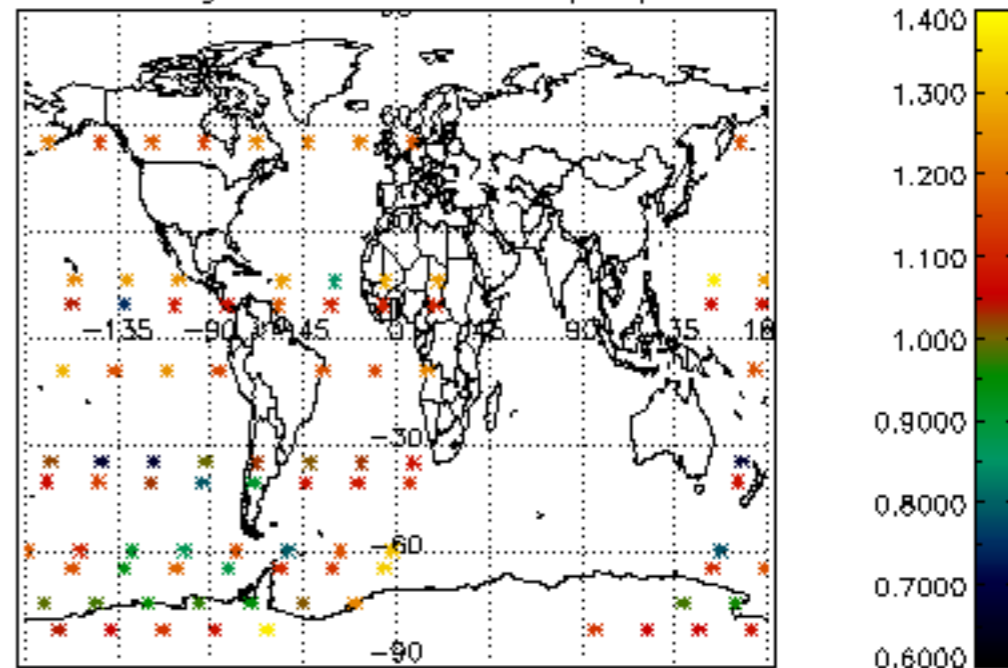
Percentage of saturation errors per profile



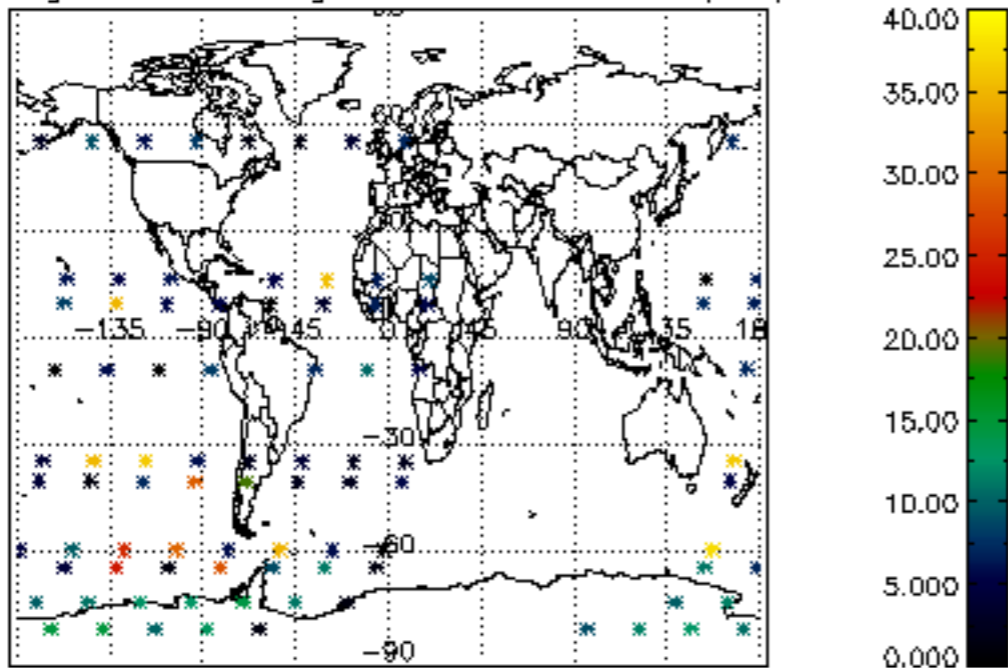
Percentage of cosmic ray hits per profile



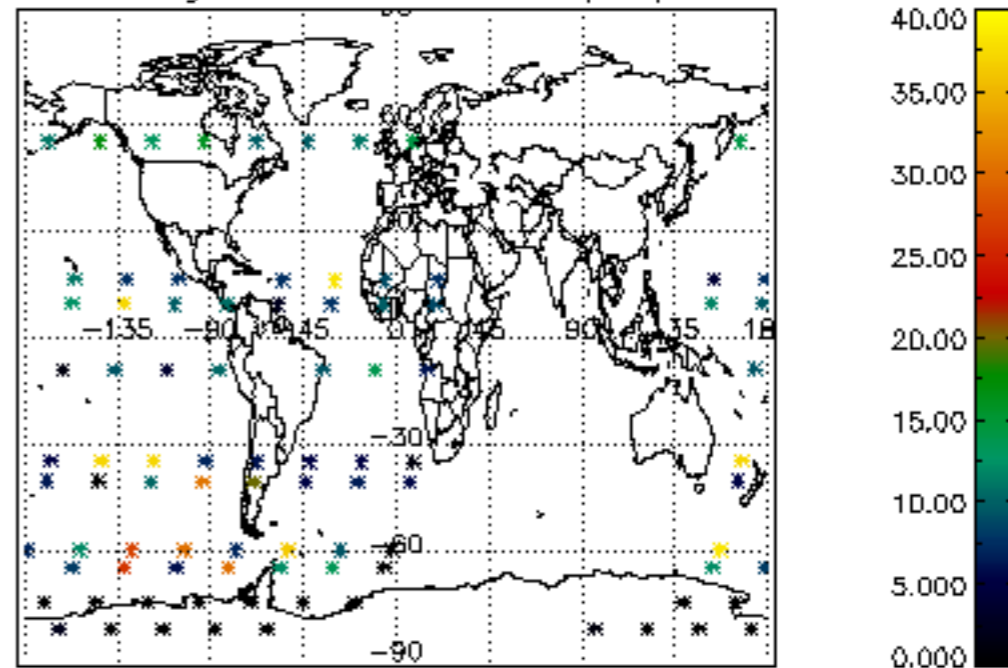
Percentage of datation errors per profile



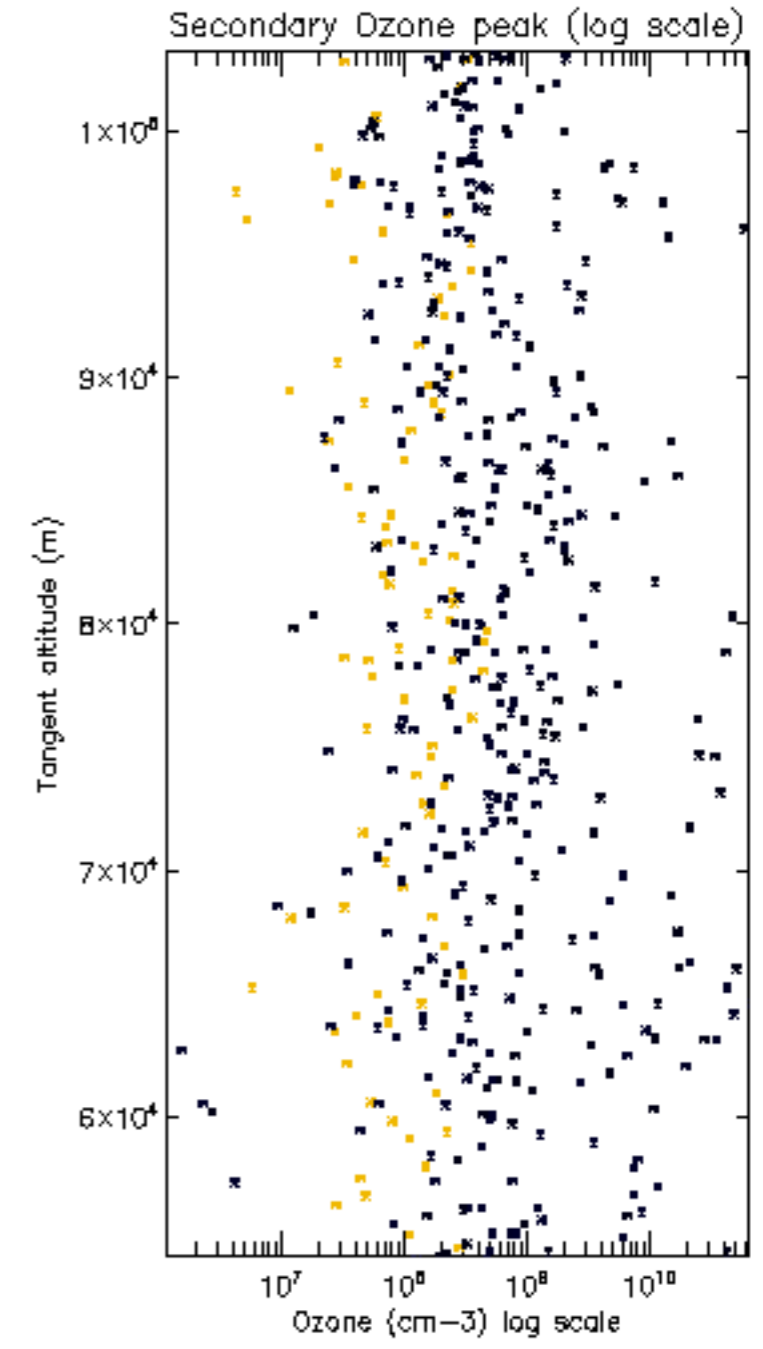
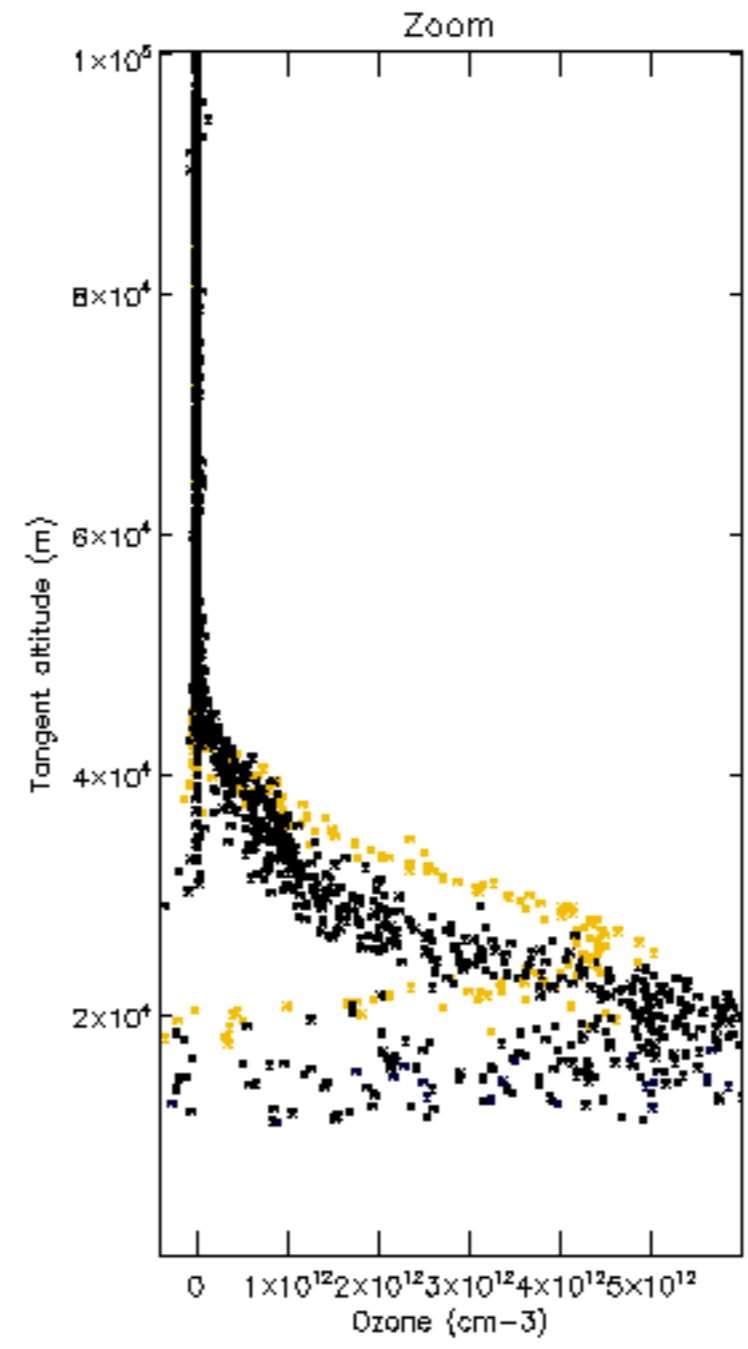
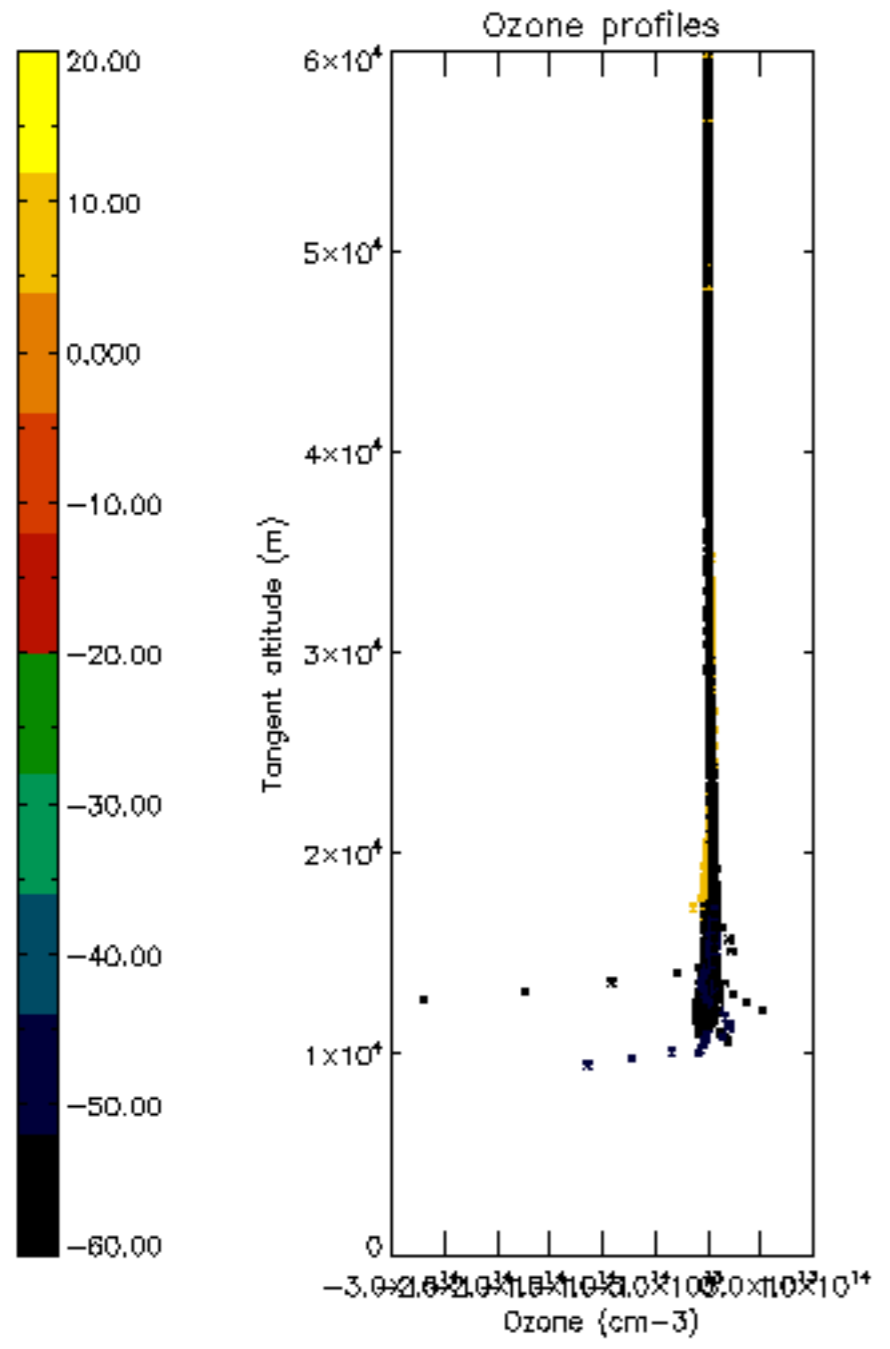
Percentage of star falling outside central band per profile

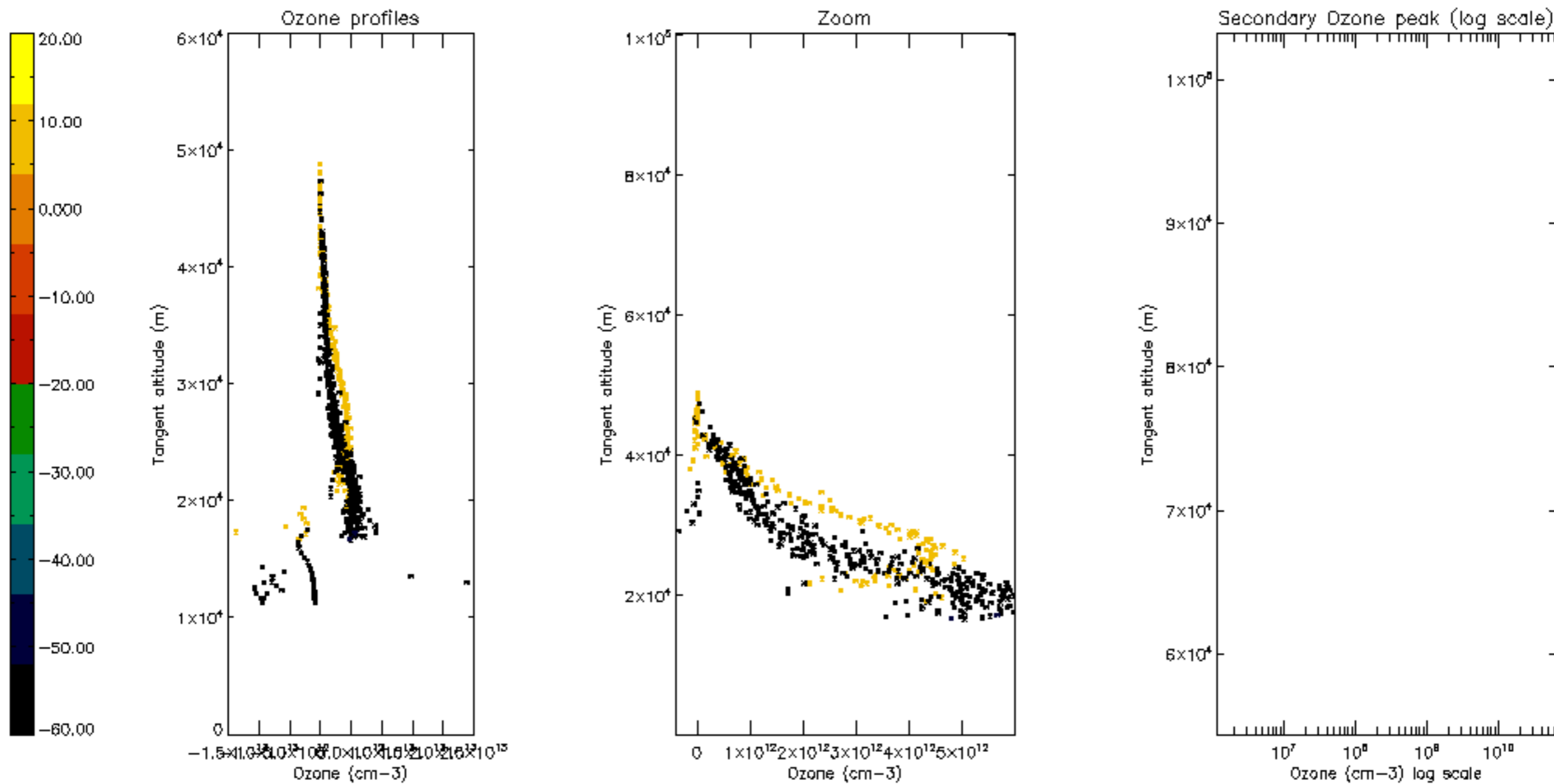


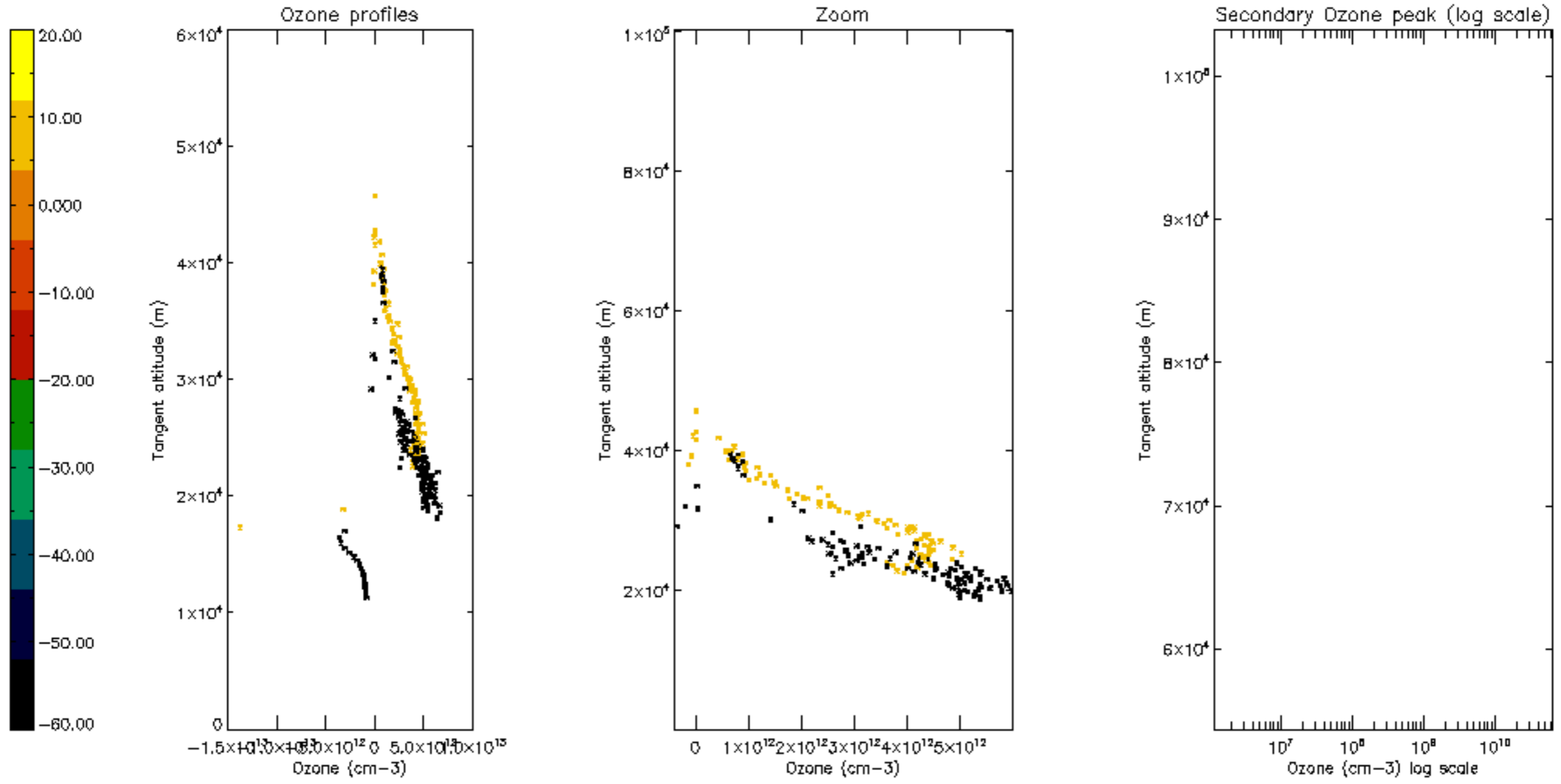
Percentage of saturation errors per profile

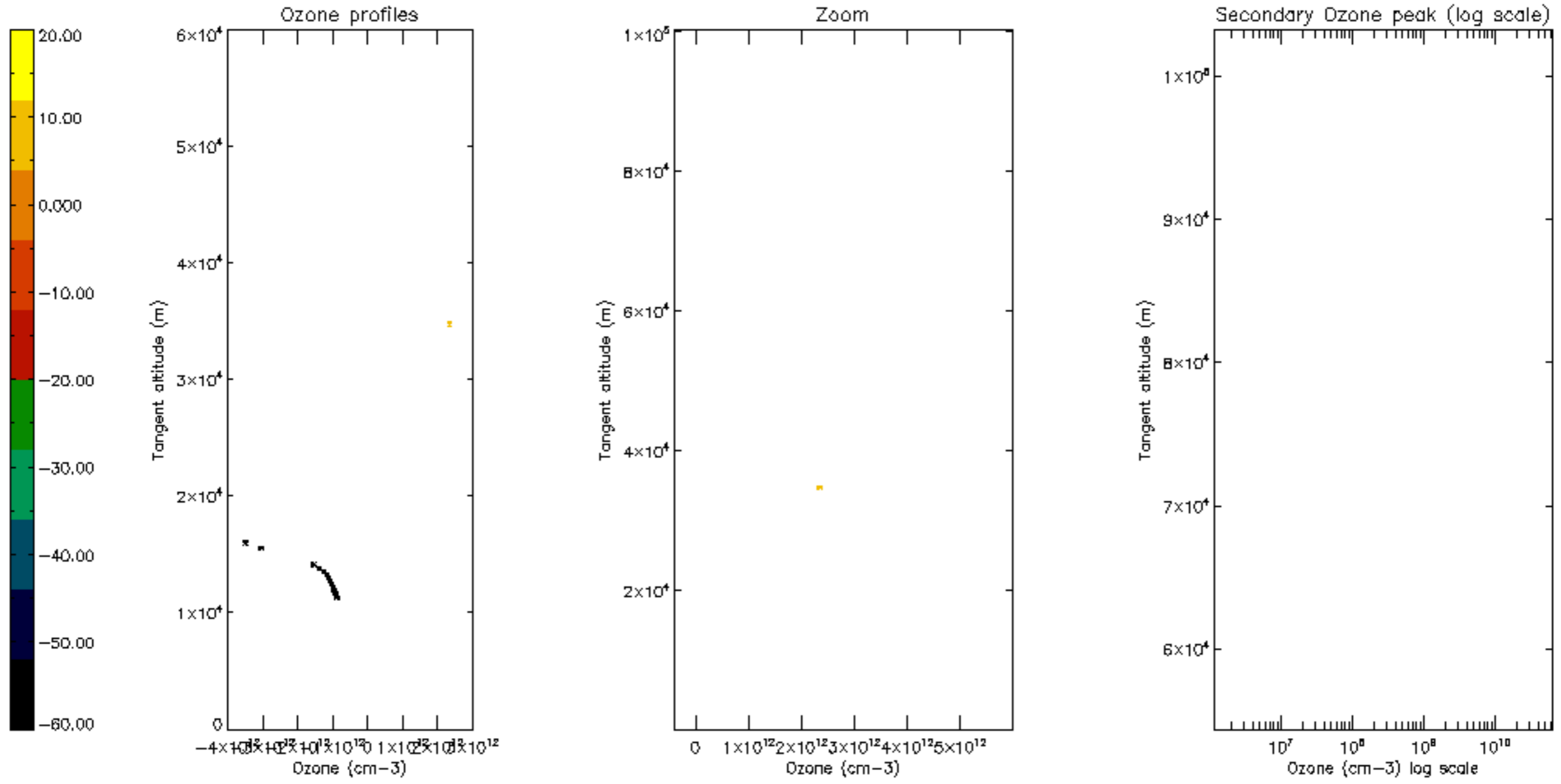


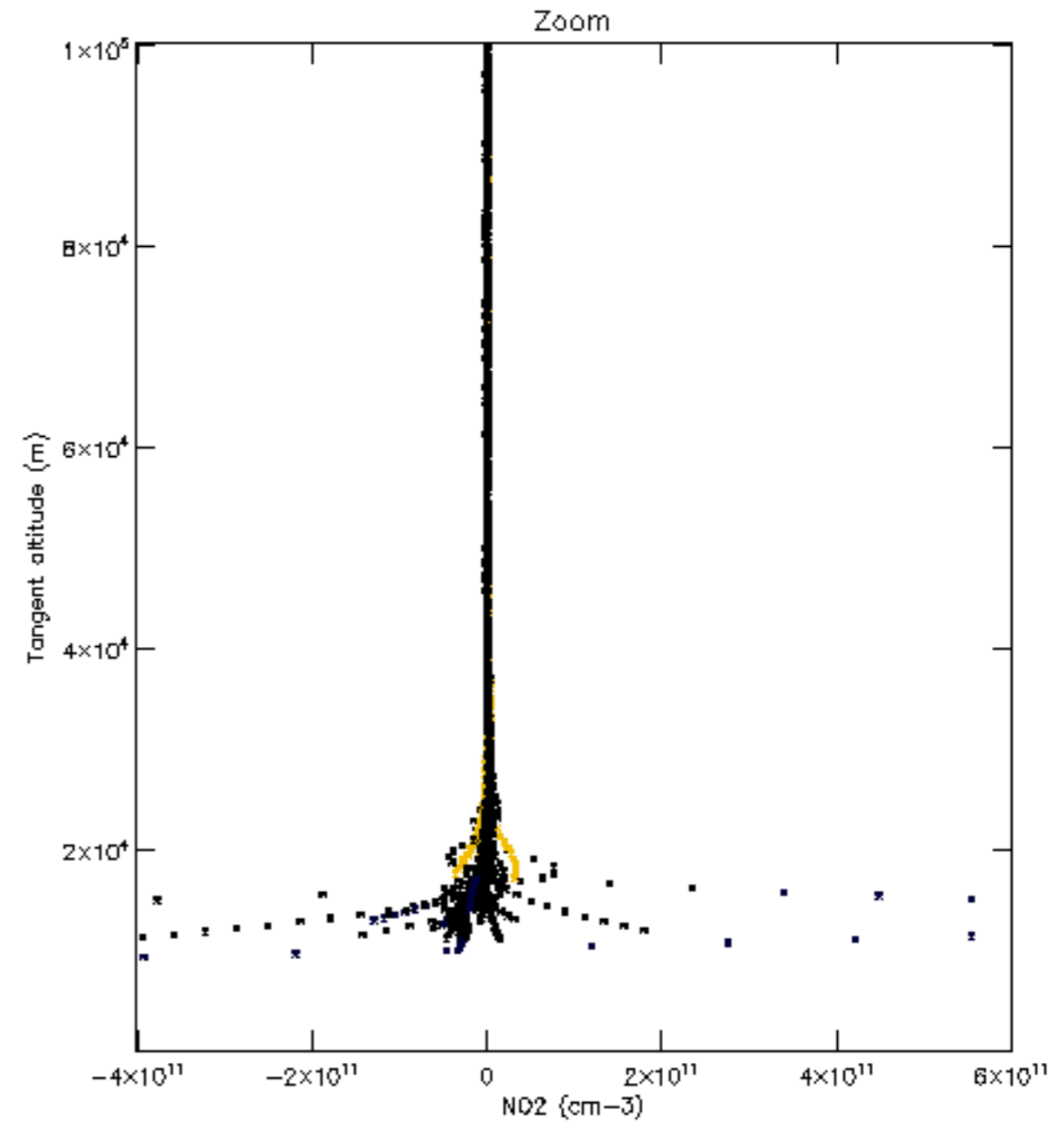
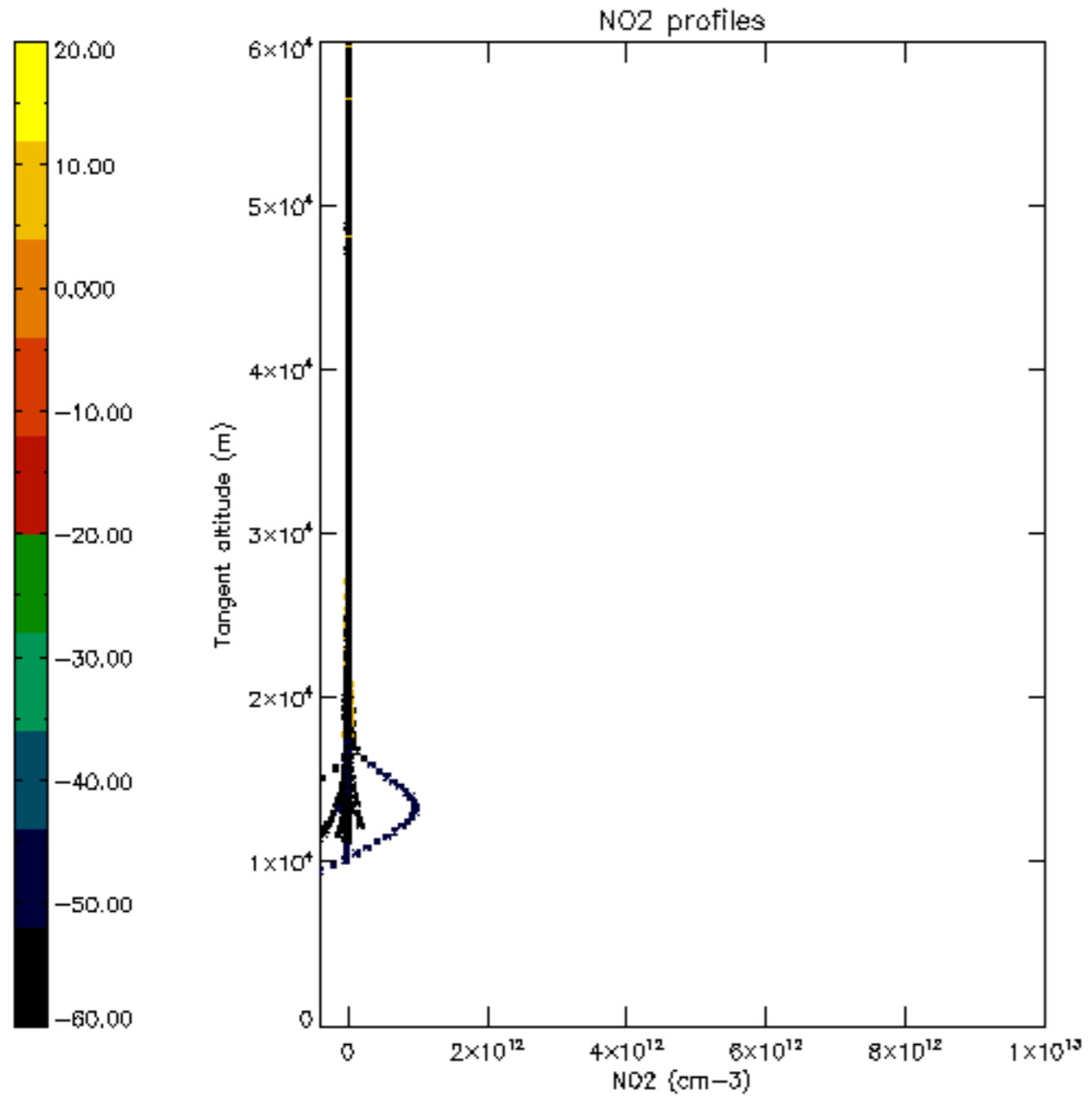


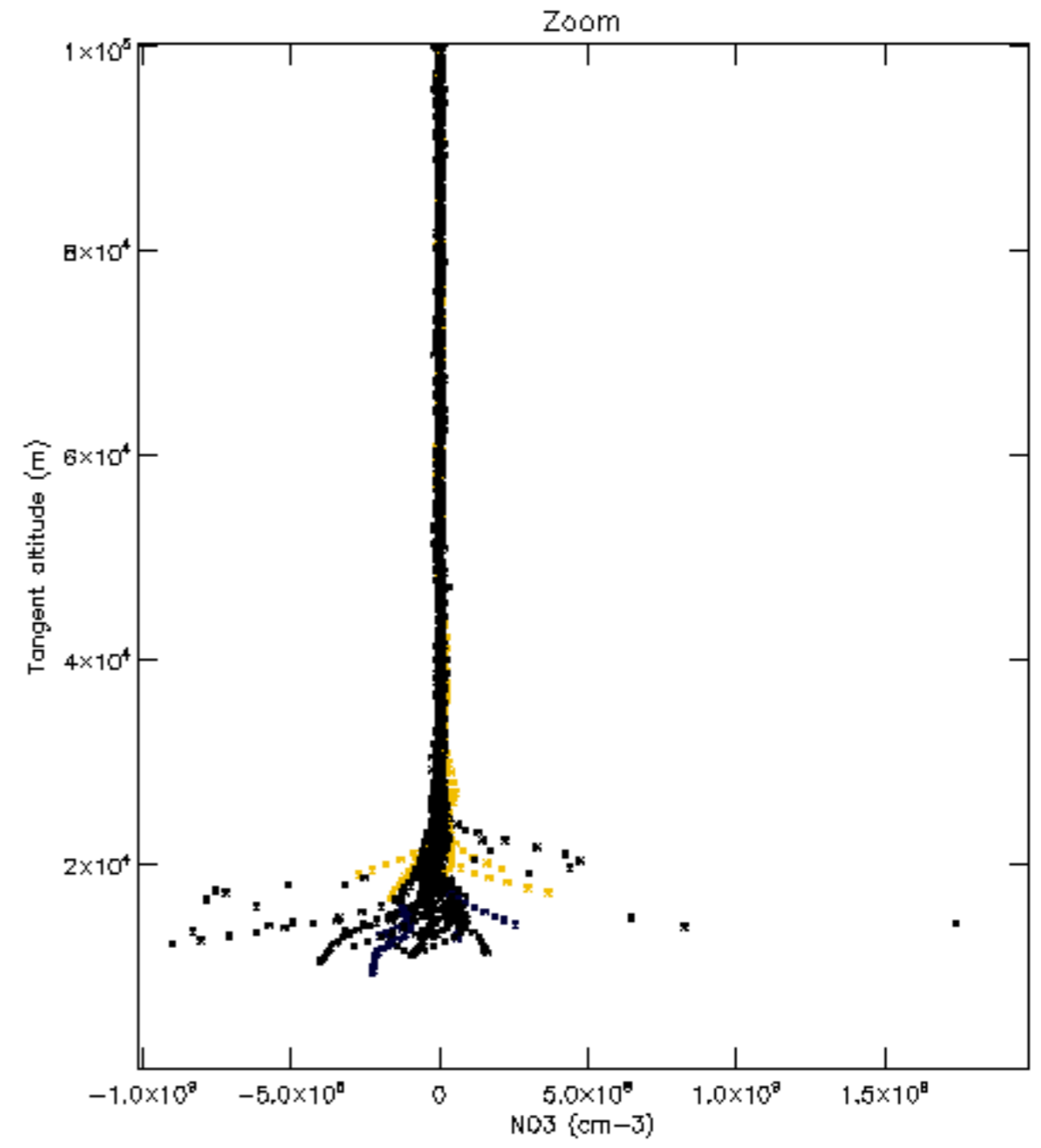
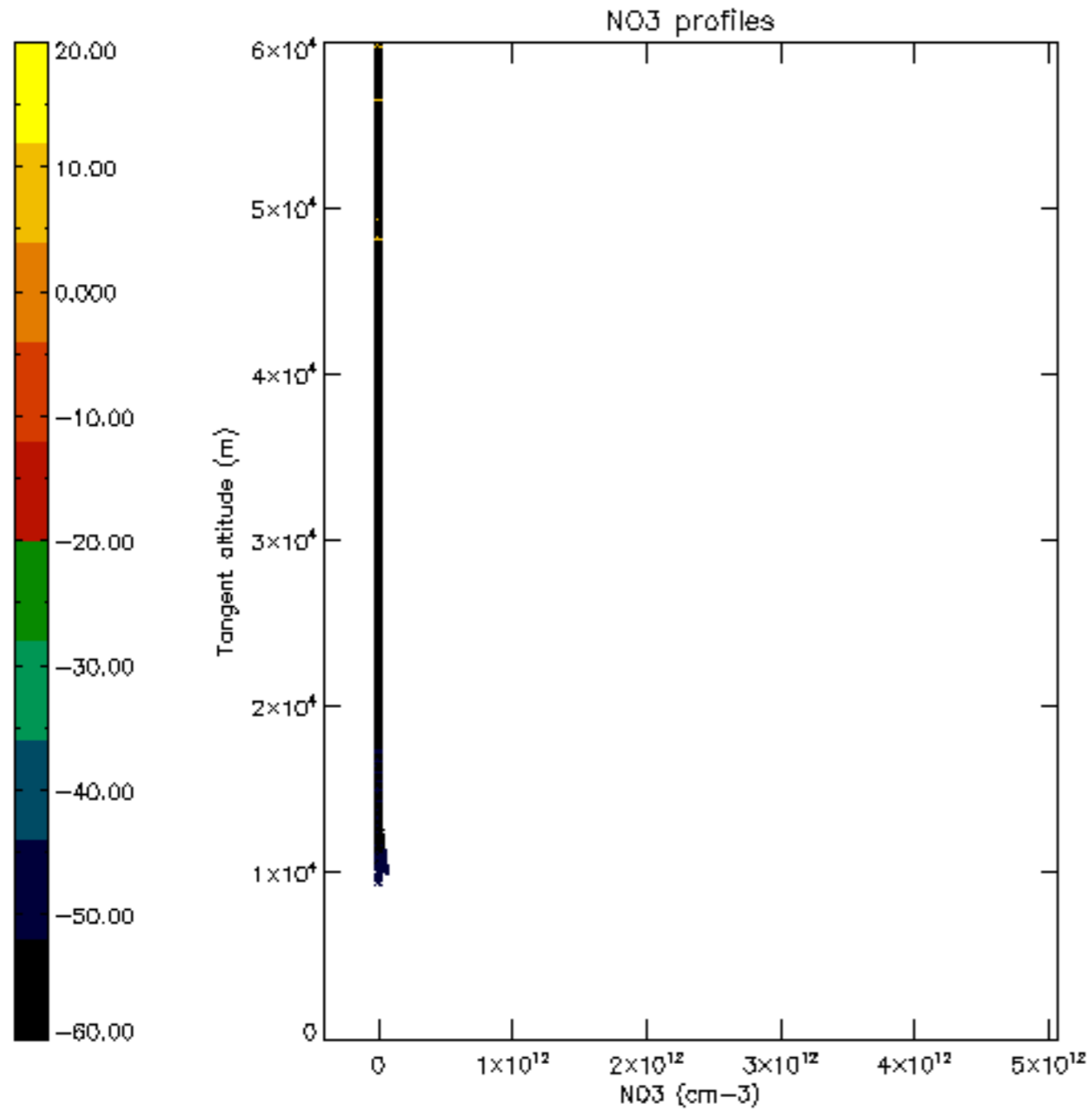


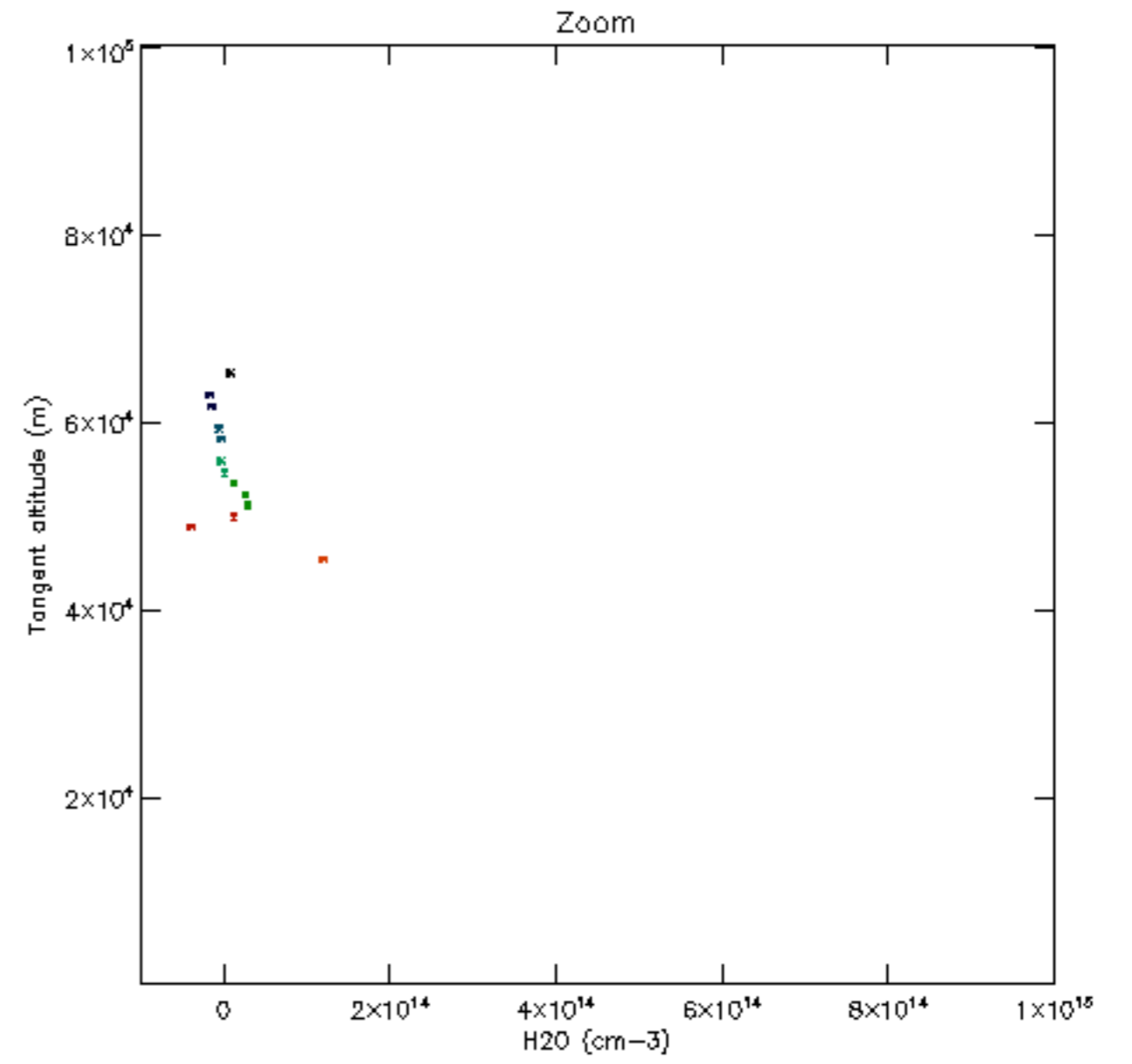
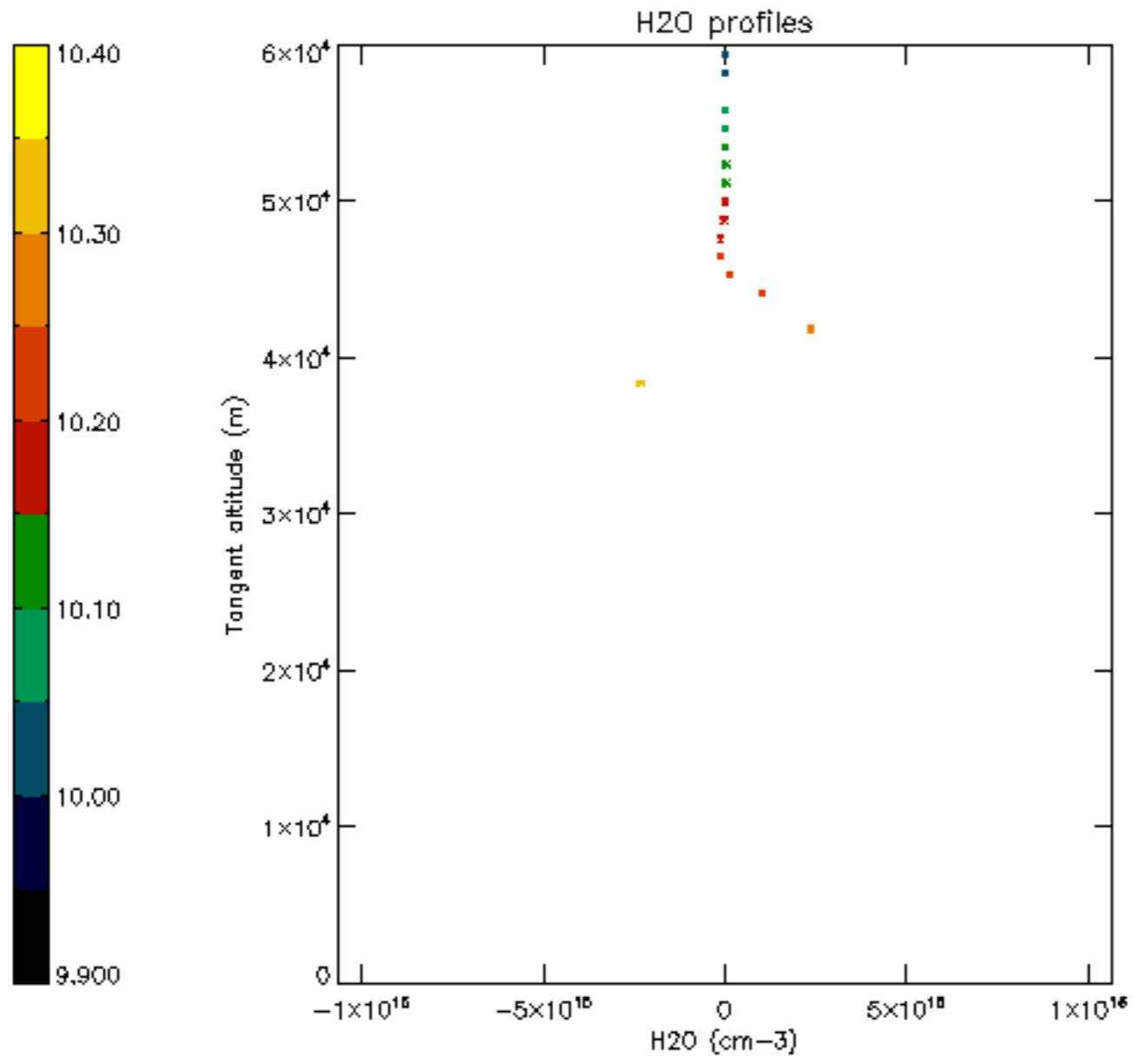


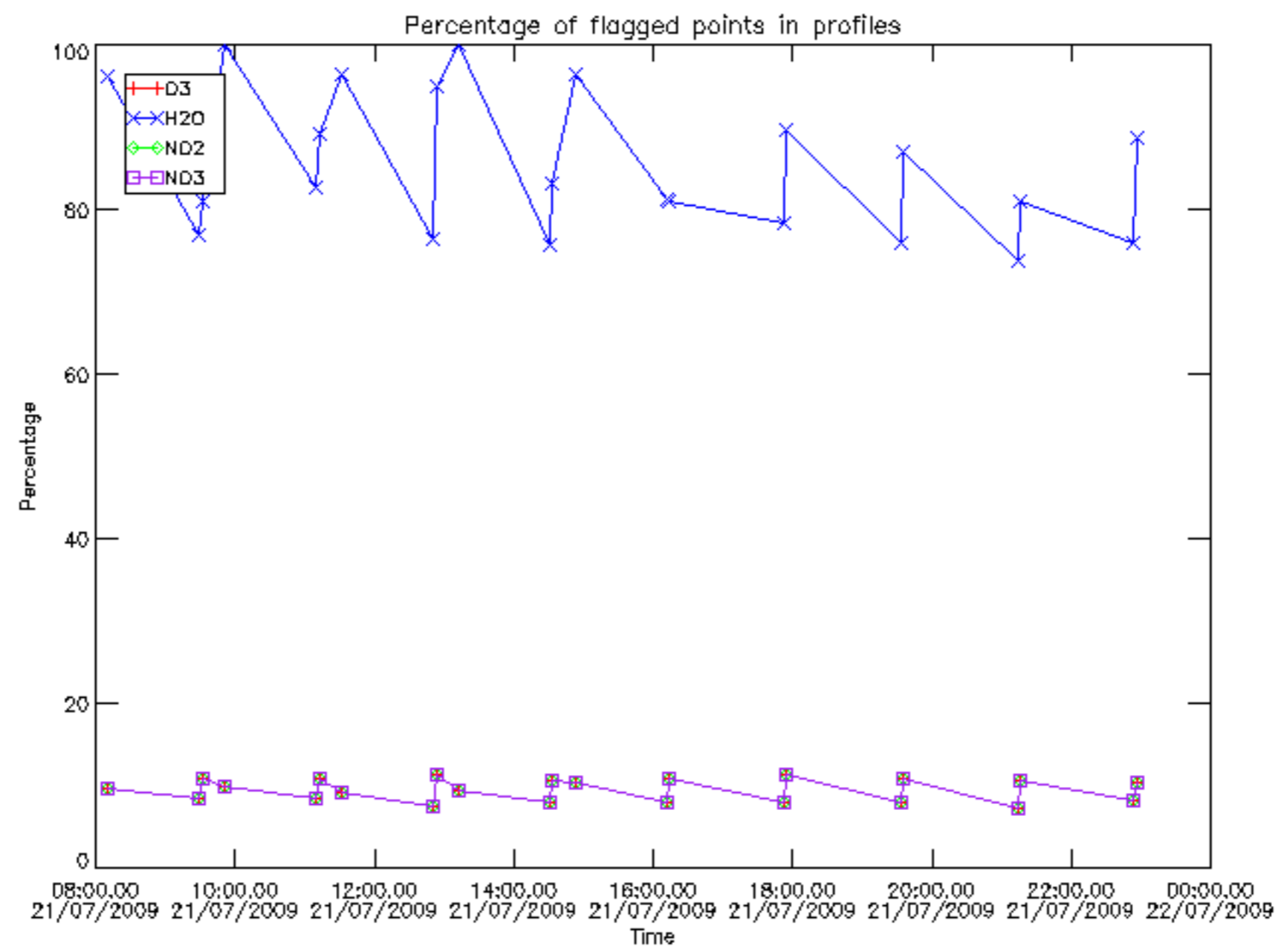






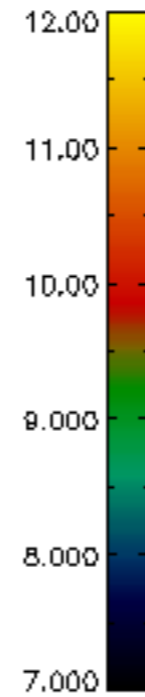
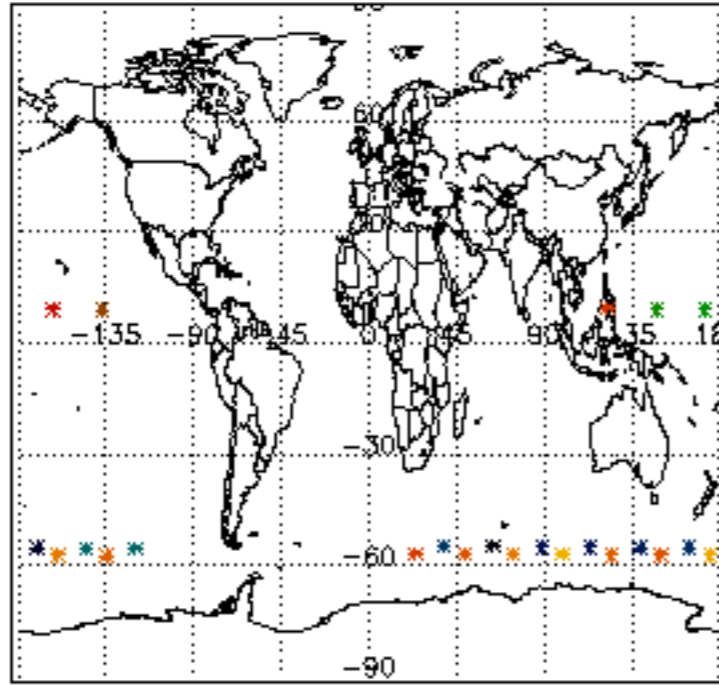




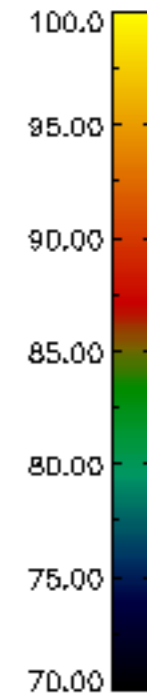
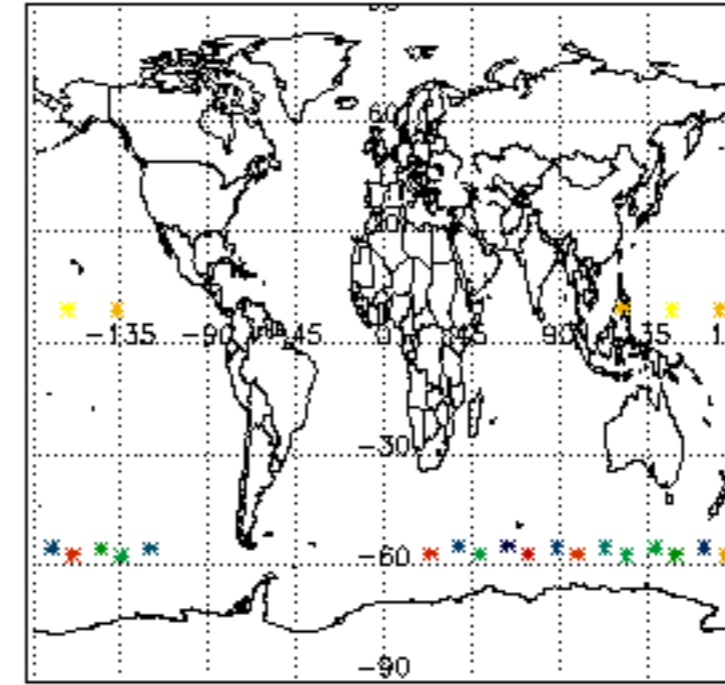




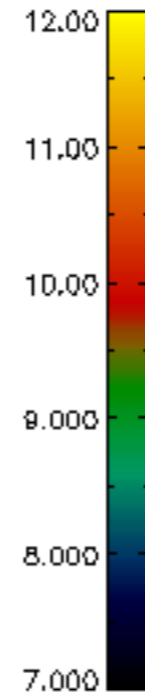
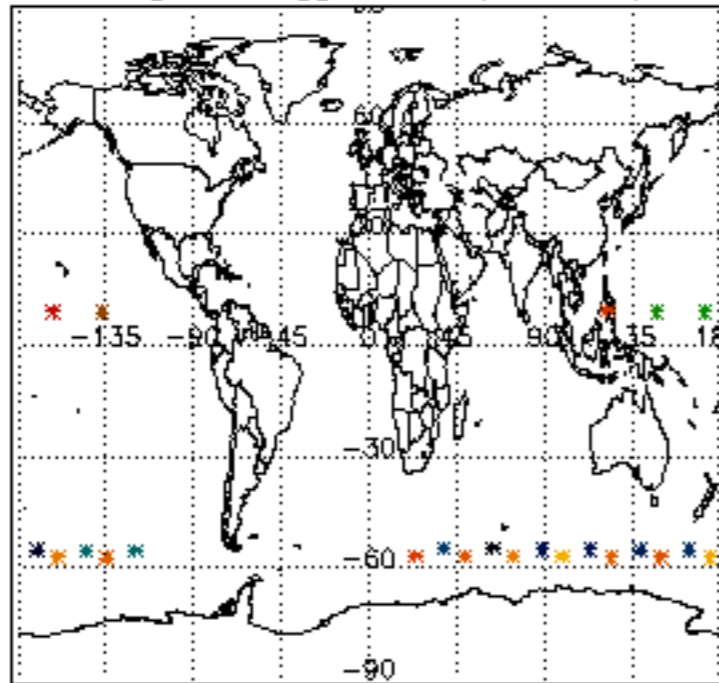
Percentage of flagged data per D3 profile



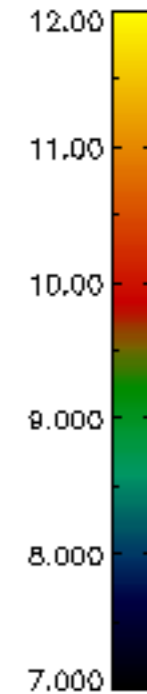
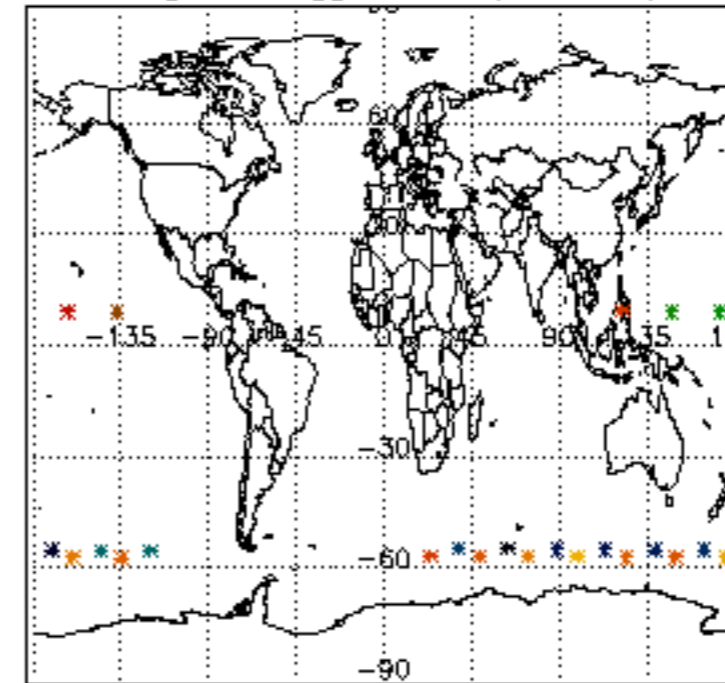
Percentage of flagged data per H2O profile

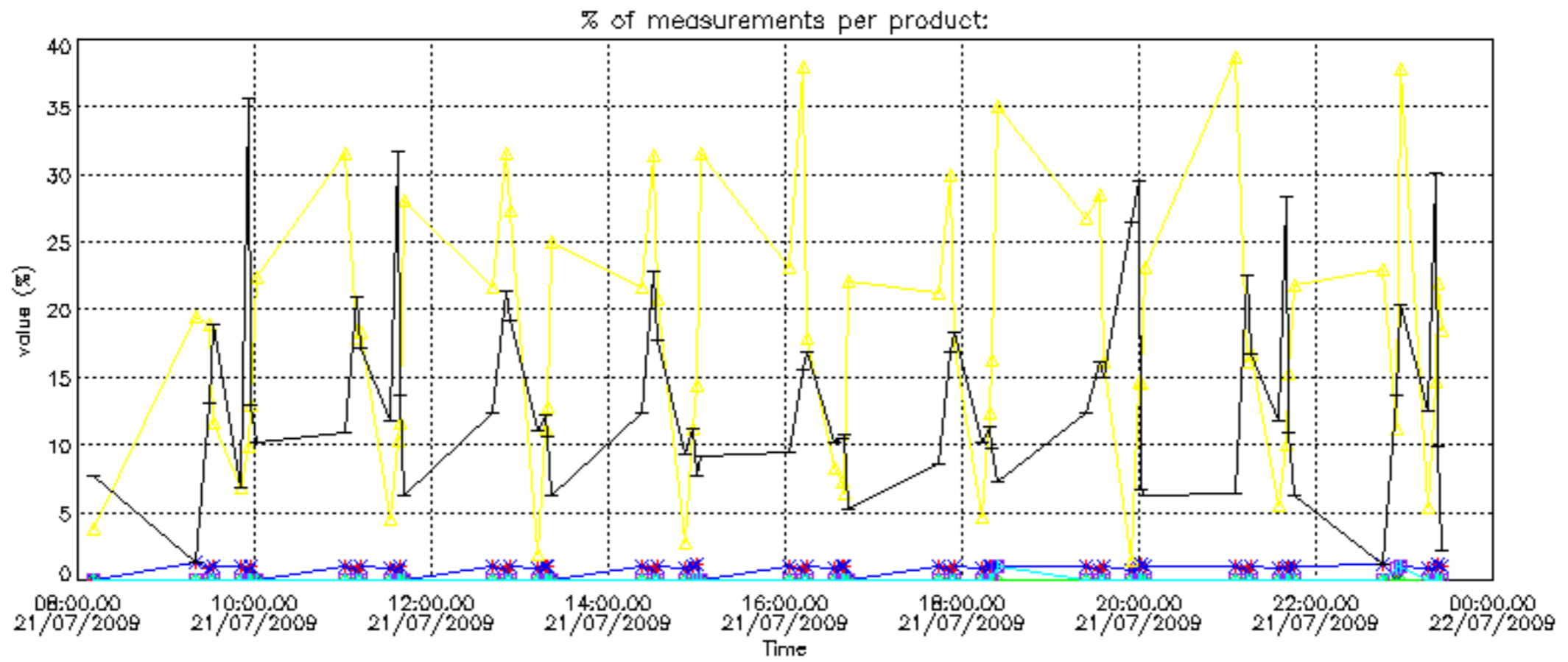


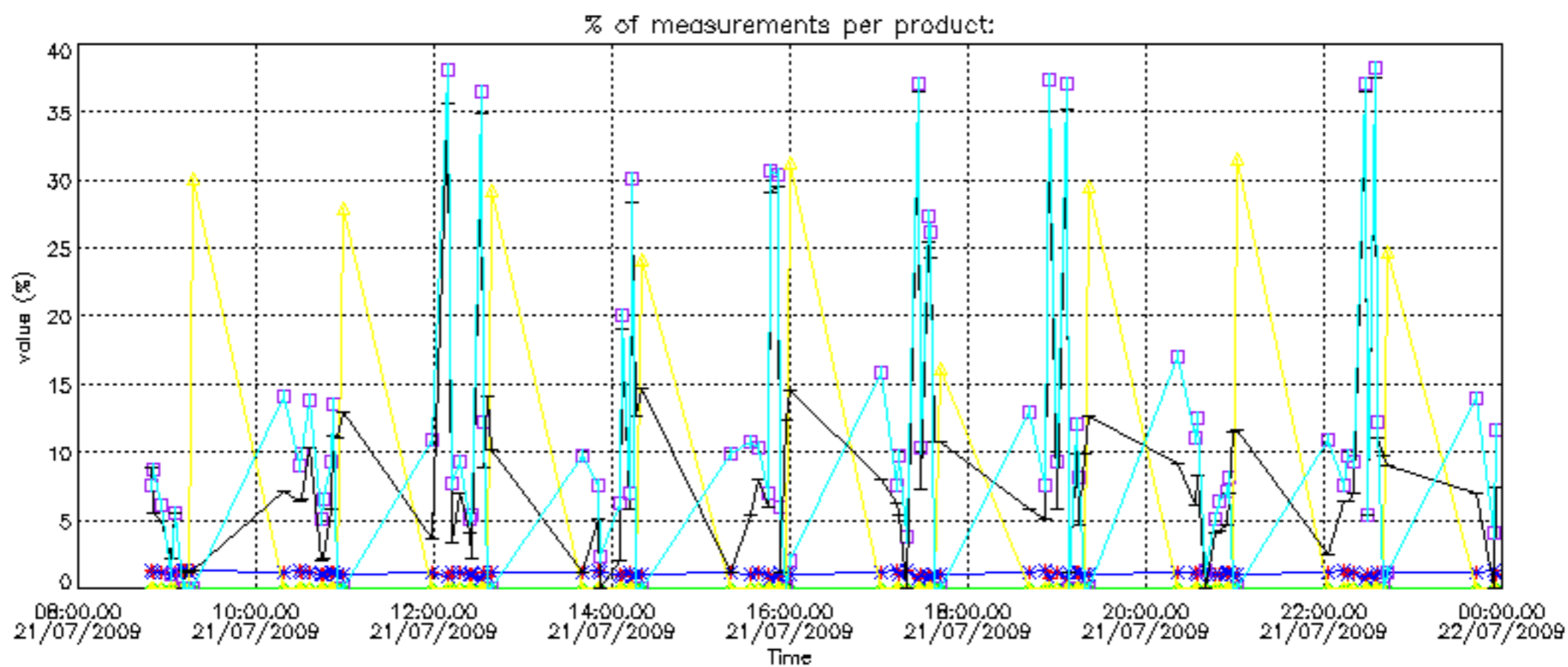
Percentage of flagged data per NO2 profile



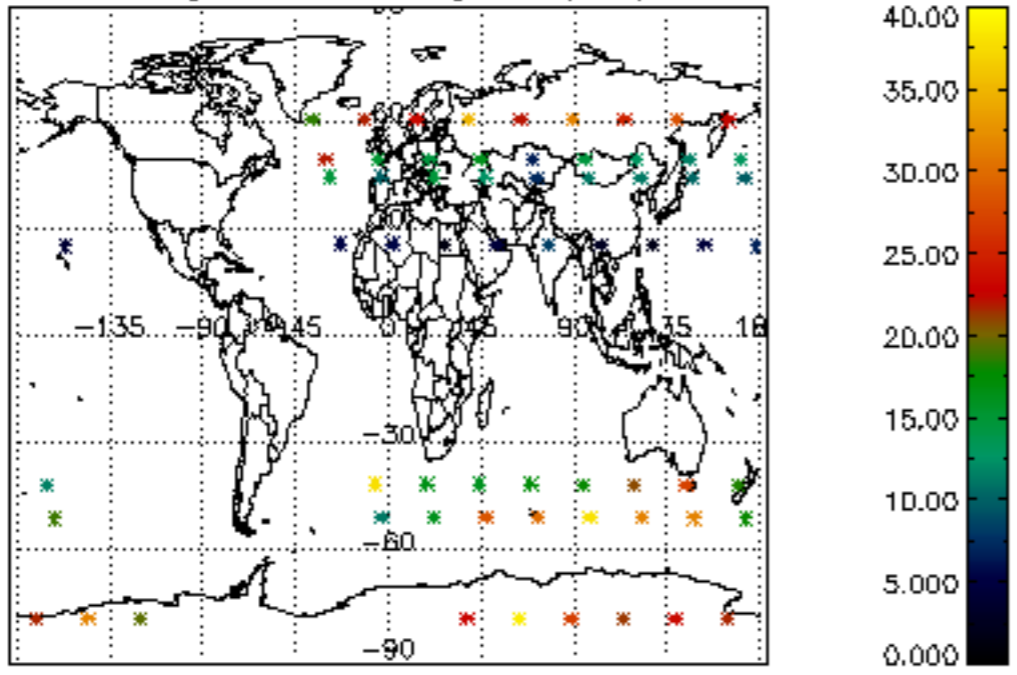
Percentage of flagged data per NO3 profile



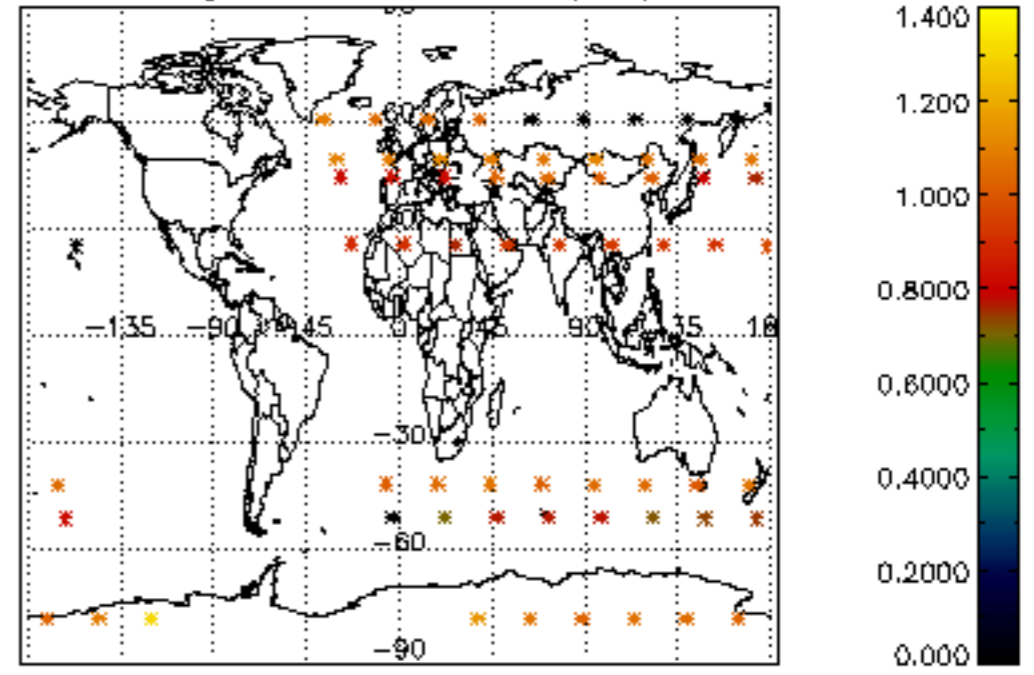




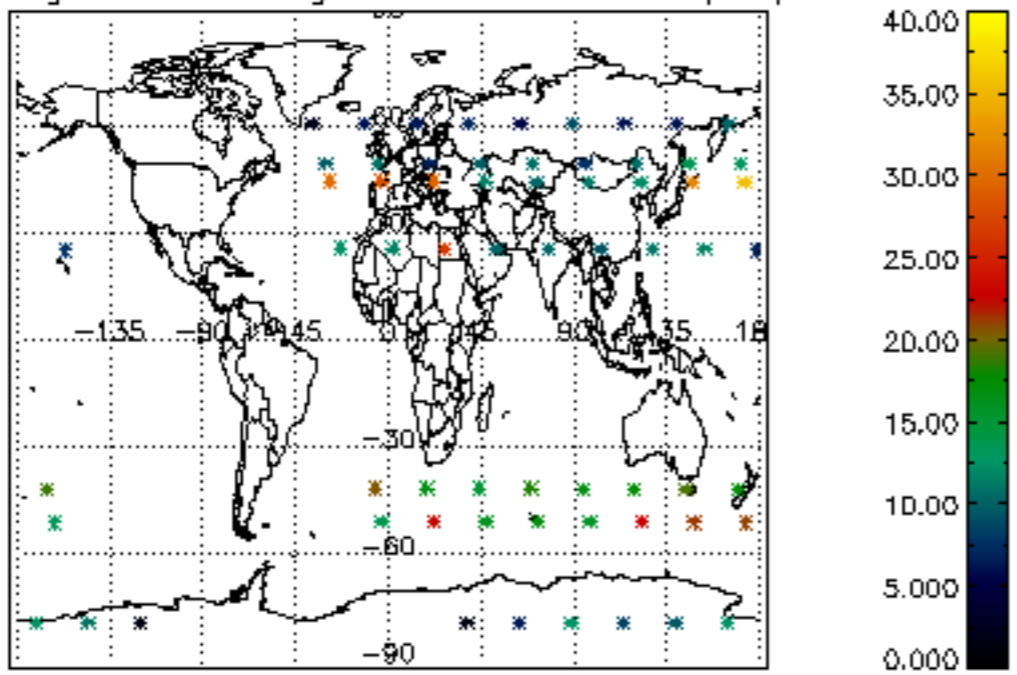
Percentage of cosmic ray hits per profile



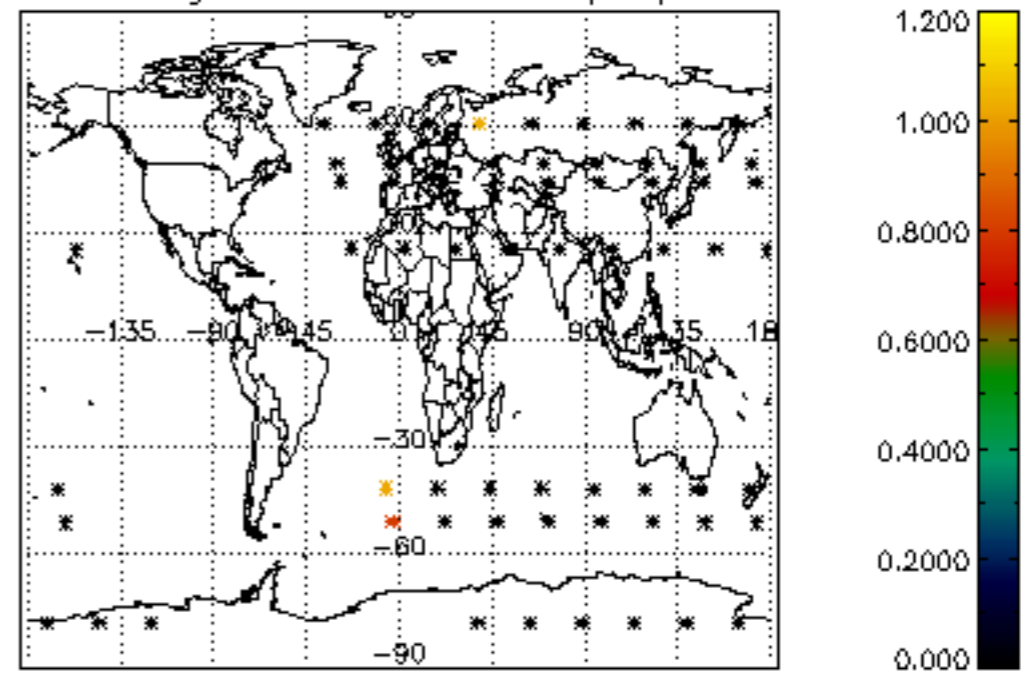
Percentage of datation errors per profile



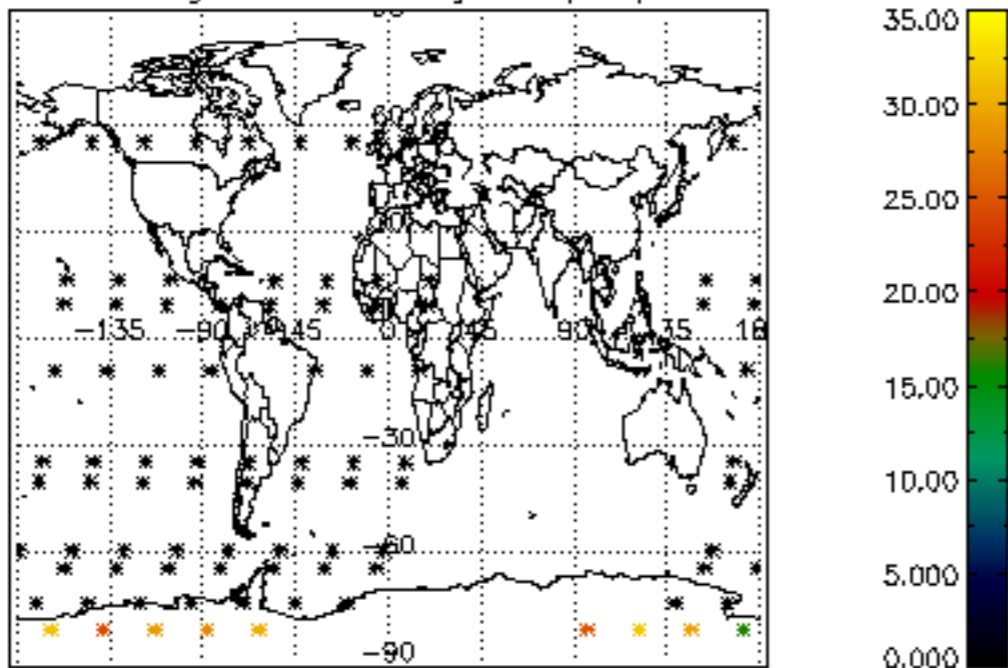
Percentage of star falling outside central band per profile



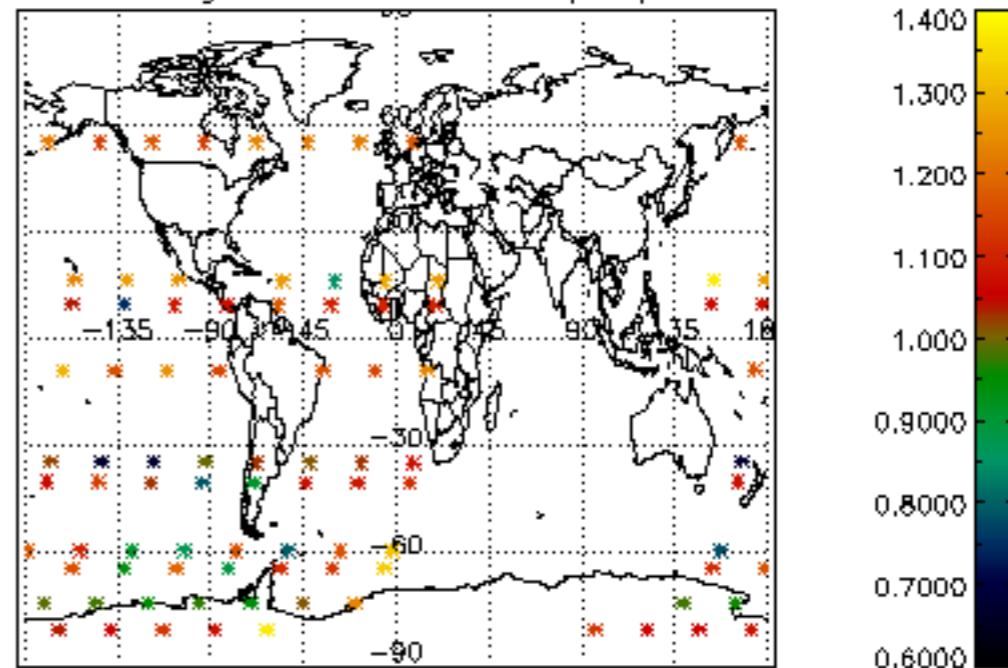
Percentage of saturation errors per profile



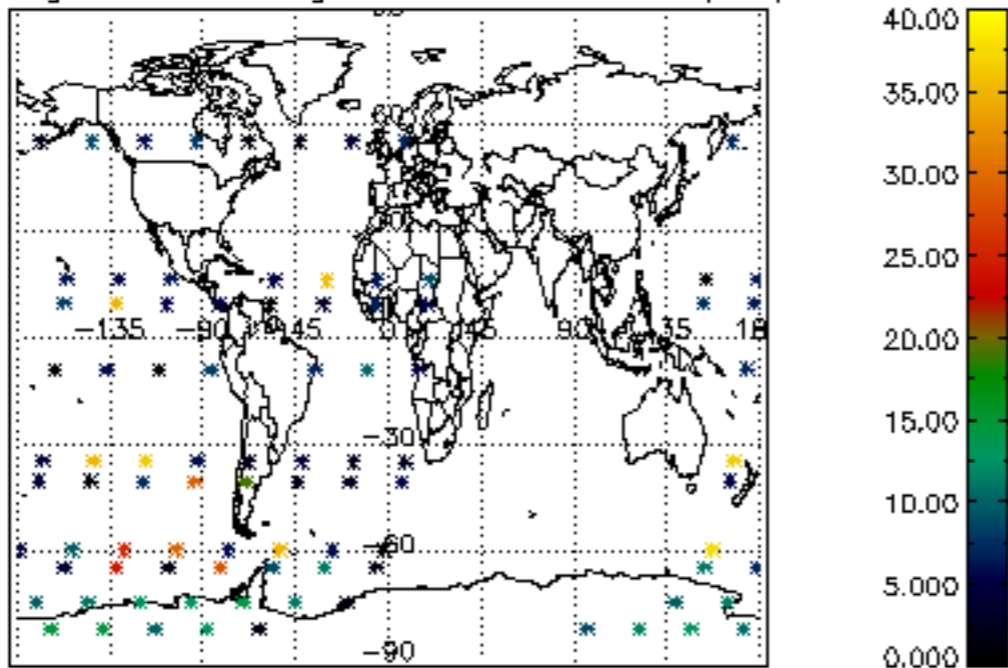
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

