

# 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	19APR2013 12:37:28
Data source version	GOMOS/6.01
Start time of products	06-10-2004 (06OCT2004 00:00:00)
Stop time of products	07-10-2004 (07OCT2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	401
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__2PRFIN20041006_000158_000000522031_00016_13597_4651.N1	06-OCT-2004 00:01:58	Bright	51.500	160	23Gam Per	2.9300	4700.0	103	13597	No
2	GOM_NL__2PRFIN20041006_000545_000000402031_00016_13597_4652.N1	06-OCT-2004 00:05:45	Bright	39.500	49	1Alp UMi	1.9900	6300.0	79	13597	No
3	GOM_NL__2PRFIN20041006_000809_000000402031_00016_13597_4653.N1	06-OCT-2004 00:08:09	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	13597	No
4	GOM_NL__2PRFIN20041006_001350_000000402031_00016_13597_4654.N1	06-OCT-2004 00:13:50	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	13597	No
5	GOM_NL__2PRFIN20041006_001522_000000352031_00016_13597_4655.N1	06-OCT-2004 00:15:22	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	13597	No
6	GOM_NL__2PRFIN20041006_001837_000000522031_00016_13597_4656.N1	06-OCT-2004 00:18:37	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	13597	No
7	GOM_NL__2PRFIN20041006_002543_000000782031_00016_13597_4657.N1	06-OCT-2004 00:25:43	Bright	78.000	17	78Bet Gem	1.1610	4500.0	156	13597	No
8	GOM_NL__2PRFIN20041006_003004_000001642031_00016_13597_4658.N1	06-OCT-2004 00:30:04	Straylight	164.00	170	27Eps Gem	3.0000	9700.0	328	13597	No
9	GOM_NL__2PRFIN20041006_003614_000000882031_00016_13597_4659.N1	06-OCT-2004 00:36:14	Dark	88.000	8	10Alp CMi	0.40000	6500.0	176	13597	No
10	GOM_NL__2PRFIN20041006_004252_000000542031_00016_13597_4660.N1	06-OCT-2004 00:42:52	Dark	53.500	132	15Rho Pup	2.8030	6900.0	107	13597	No
11	GOM_NL__2PRFIN20041006_004452_000000462031_00016_13597_4661.N1	06-OCT-2004 00:44:52	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	13597	No
12	GOM_NL__2PRFIN20041006_004628_000000472031_00016_13597_4662.N1	06-OCT-2004 00:46:28	Dark	47.000	70	Zet Pup	2.2460	39000.	94	13597	No
13	GOM_NL__2PRFIN20041006_005303_000000612031_00017_13598_4635.N1	06-OCT-2004 00:53:03	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	13598	No
14	GOM_NL__2PRFIN20041006_005615_000000662031_00017_13598_4636.N1	06-OCT-2004 00:56:15	Dark	66.000	108	Alp Col	2.6520	15200.	132	13598	No
15	GOM_NL__2PRFIN20041006_005927_000000382031_00017_13598_4637.N1	06-OCT-2004 00:59:27	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	13598	No
16	GOM_NL__2PRFIN20041006_010154_000000432031_00017_13598_4638.N1	06-OCT-2004 01:01:54	Dark	42.500	143	Alp Hyi	2.8570	7200.0	85	13598	No
17	GOM_NL__2PRFIN20041006_010322_000000472031_00017_13598_4639.N1	06-OCT-2004 01:03:22	Dark	46.500	9	Alp Eri	0.45300	24000.	93	13598	No
18	GOM_NL__2PRFIN20041006_010520_000000532031_00017_13598_4640.N1	06-OCT-2004 01:05:20	Straylight	53.000	157	The1Eri	2.9060	9300.0	106	13598	No
19	GOM_NL__2PRFIN20041006_010833_000000462031_00017_13598_4641.N1	06-OCT-2004 01:08:33	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	13598	No
20	GOM_NL__2PRFIN20041006_011308_000000462031_00017_13598_4642.N1	06-OCT-2004 01:13:08	Straylight	46.000	18	24Alp PsA	1.1660	9700.0	92	13598	No
21	GOM_NL__2PRFIN20041006_011521_000000492031_00017_13598_4643.N1	06-OCT-2004 01:15:21	Straylight	48.500	52	16Bet Cet	2.0370	4500.0	97	13598	No
22	GOM_NL__2PRFIN20041006_011810_000002152031_00017_13598_4644.N1	06-OCT-2004 01:18:10	Bright	215.00	165	34Gam Eri	2.9500	3200.0	430	13598	No
23	GOM_NL__2PRFIN20041006_012527_000000392031_00017_13598_4645.N1	06-OCT-2004 01:25:27	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	13598	No
24	GOM_NL__2PRFIN20041006_012903_000000392031_00017_13598_4646.N1	06-OCT-2004 01:29:03	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	13598	No
25	GOM_NL__2PRFIN20041006_013247_000000492031_00017_13598_4647.N1	06-OCT-2004 01:32:47	Bright	49.000	53	43Bet And	2.0480	3300.0	98	13598	No
26	GOM_NL__2PRFIN20041006_013528_000000542031_00017_13598_4648.N1	06-OCT-2004 01:35:28	Bright	53.500	173	4Bet Tri	3.0040	8900.0	107	13598	No
27	GOM_NL__2PRFIN20041006_013752_000000432031_00017_13598_4649.N1	06-OCT-2004 01:37:52	Bright	42.500	68	18Alp Cas	2.2250	4500.0	85	13598	No
28	GOM_NL__2PRFIN20041006_013919_000000412031_00017_13598_4650.N1	06-OCT-2004 01:39:19	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	13598	No
29	GOM_NL__2PRFIN20041006_014232_000000512031_00017_13598_4651.N1	06-OCT-2004 01:42:32	Bright	51.000	160	23Gam Per	2.9300	4700.0	102	13598	No
30	GOM_NL__2PRFIN20041006_014619_000000412031_00017_13598_4652.N1	06-OCT-2004 01:46:19	Bright	41.000	49	1Alp UMi	1.9900	6300.0	82	13598	No
31	GOM_NL__2PRFIN20041006_014844_000000412031_00017_13598_4653.N1	06-OCT-2004 01:48:44	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	13598	No
32	GOM_NL__2PRFIN20041006_015424_000000422031_00017_13598_4654.N1	06-OCT-2004 01:54:24	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	13598	No
33	GOM_NL__2PRFIN20041006_015558_000000502031_00017_13598_4655.N1	06-OCT-2004 01:55:58	Bright	50.000	82	48Bet UMa	2.3650	10600.	100	13598	No
34	GOM_NL__2PRFIN20041006_015913_000000522031_00017_13598_4656.N1	06-OCT-2004 01:59:13	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	13598	No
35	GOM_NL__2PRFIN20041006_020619_000000692031_00017_13598_4657.N1	06-OCT-2004 02:06:19	Bright	68.500	17	78Bet Gem	1.1610	4500.0	137	13598	No
36	GOM_NL__2PRFIN20041006_021041_000001412031_00017_13598_4658.N1	06-OCT-2004 02:10:41	Straylight	140.50	170	27Eps Gem	3.0000	9700.0	281	13598	No
37	GOM_NL__2PRFIN20041006_021652_000000952031_00017_13598_4659.N1	06-OCT-2004 02:16:52	Dark	95.000	8	10Alp CMi	0.40000	6500.0	190	13598	No
38	GOM_NL__2PRFIN20041006_022528_000000472031_00017_13598_4660.N1	06-OCT-2004 02:25:28	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	13598	No
39	GOM_NL__2PRFIN20041006_022702_000000502031_00017_13598_4661.N1	06-OCT-2004 02:27:02	Dark	50.000	70	Zet Pup	2.2460	39000.	100	13598	No
40	GOM_NL__2PRFIN20041006_023340_000000472031_00018_13599_4635.N1	06-OCT-2004 02:33:40	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	13599	No
41	GOM_NL__2PRFIN20041006_023653_000000672031_00018_13599_4636.N1	06-OCT-2004 02:36:53	Dark	67.000	108	Alp Col	2.6520	15200.	134	13599	No
42	GOM_NL__2PRFIN20041006_024003_000000392031_00018_13599_4637.N1	06-OCT-2004 02:40:03	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	13599	No













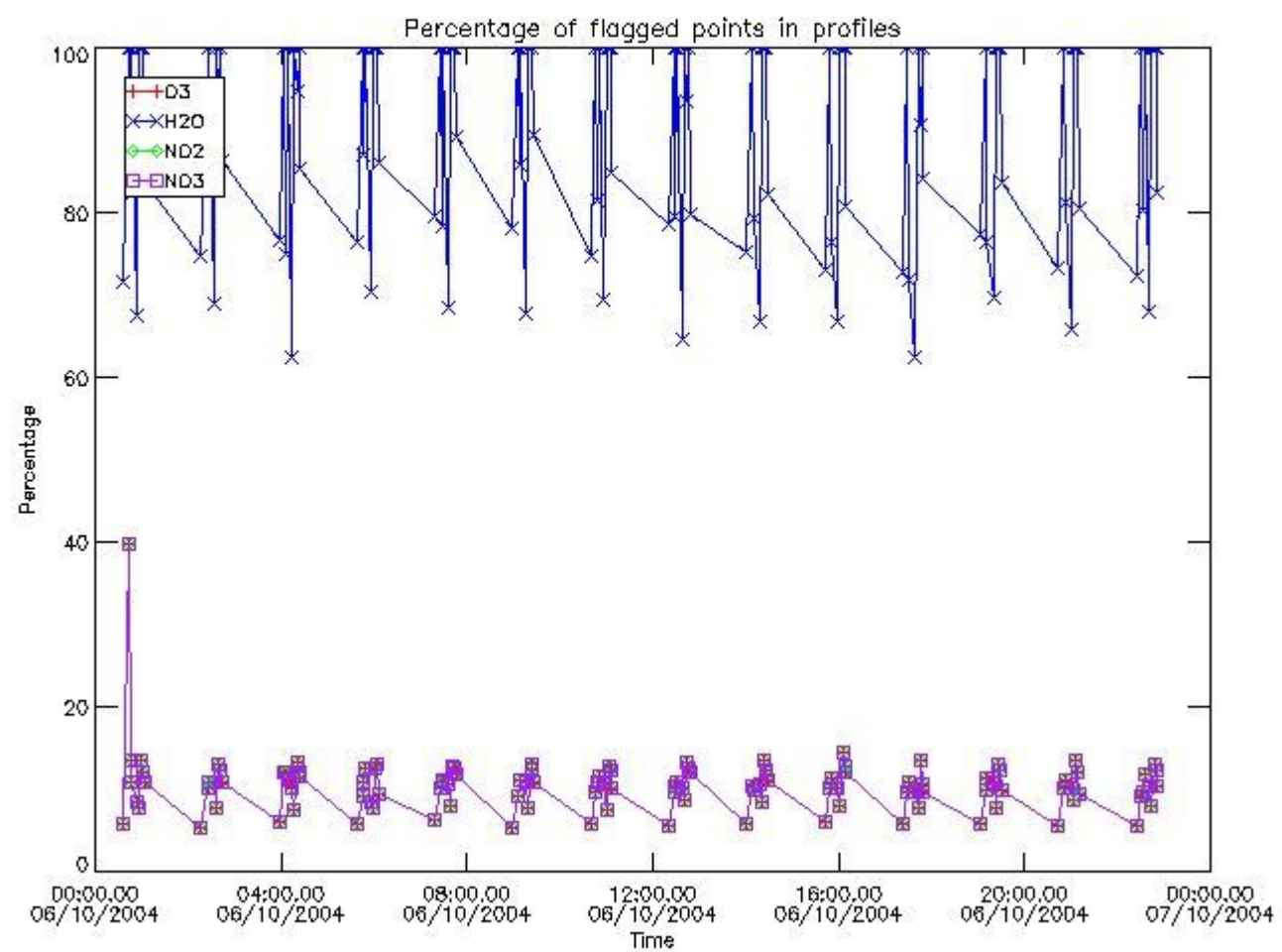


397	GOM_NL__2PRFIN20041006_234346_000000372031_00030_13611_4655.N1	06-OCT-2004 23:43:46	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	13611	No
398	GOM_NL__2PRFIN20041006_234703_000000372031_00030_13611_4656.N1	06-OCT-2004 23:47:03	Bright	36.500	174	52Psi UMa	3.0040	4400.0	73	13611	No
399	GOM_NL__2PRFIN20041006_235230_000000702031_00030_13611_4657.N1	06-OCT-2004 23:52:30	Bright	69.500	24	66Alp Gem	1.5800	10200.	139	13611	No
400	GOM_NL__2PRFIN20041006_235654_000000492031_00030_13611_4658.N1	06-OCT-2004 23:56:54	Bright	49.000	22	32Alp Leo	1.3600	15200.	98	13611	No
401	GOM_NL__2PRFIN20041006_235850_000001632031_00030_13611_4659.N1	06-OCT-2004 23:58:50	Straylight	163.00	170	27Eps Gem	3.0000	9700.0	326	13611	No

### 3. Quality information per product

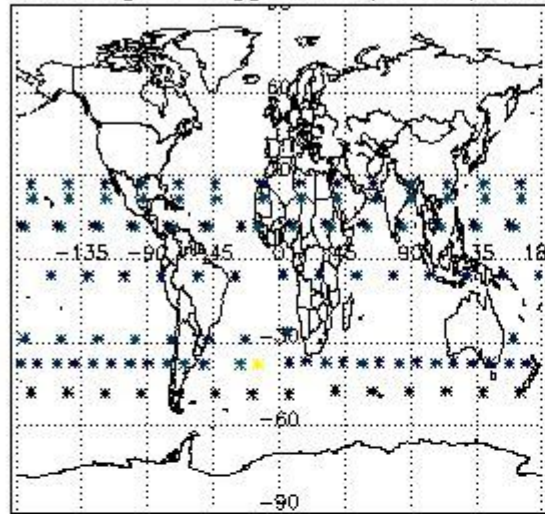
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

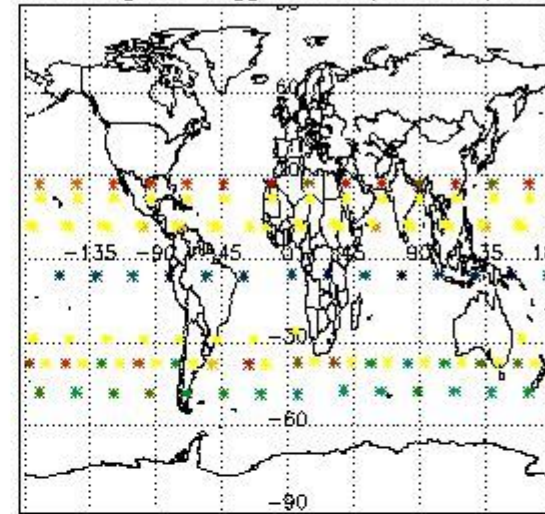


#### 3.2 Plot quality information per product (world map)

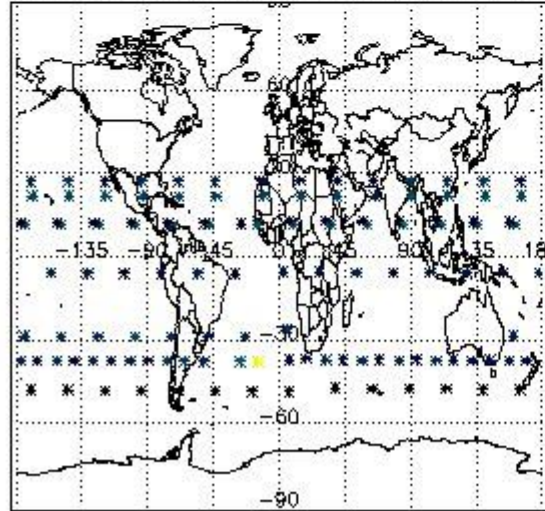
Percentage of flagged data per O3 profile



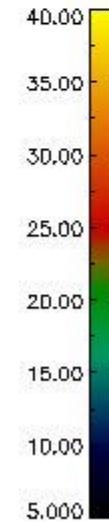
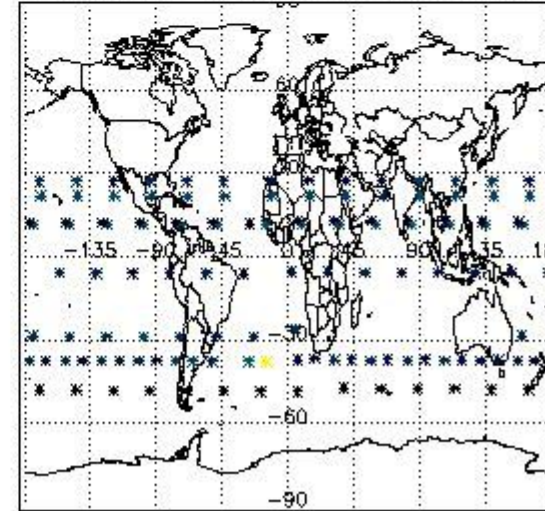
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

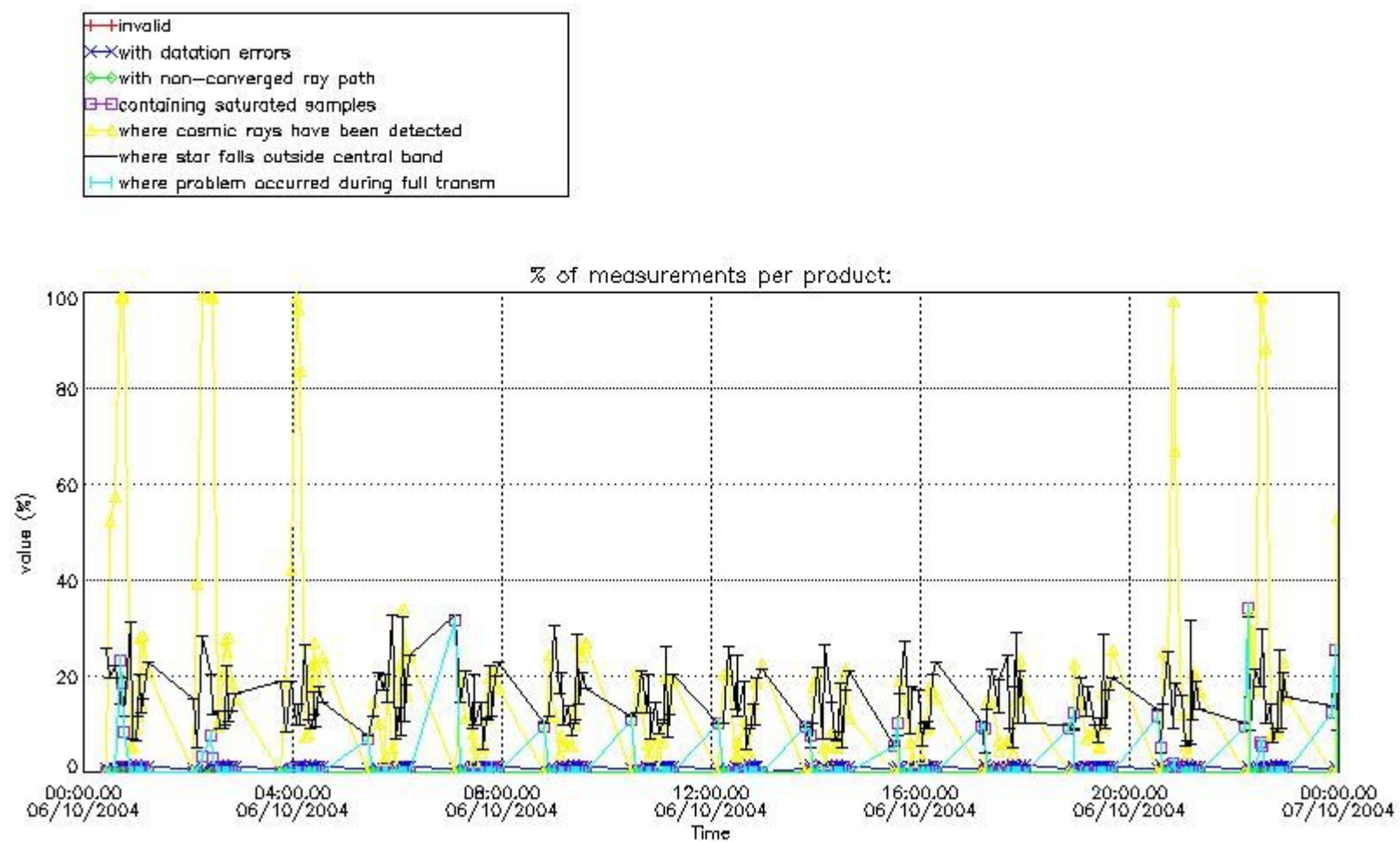


#### 4. Level 1 quality information per product

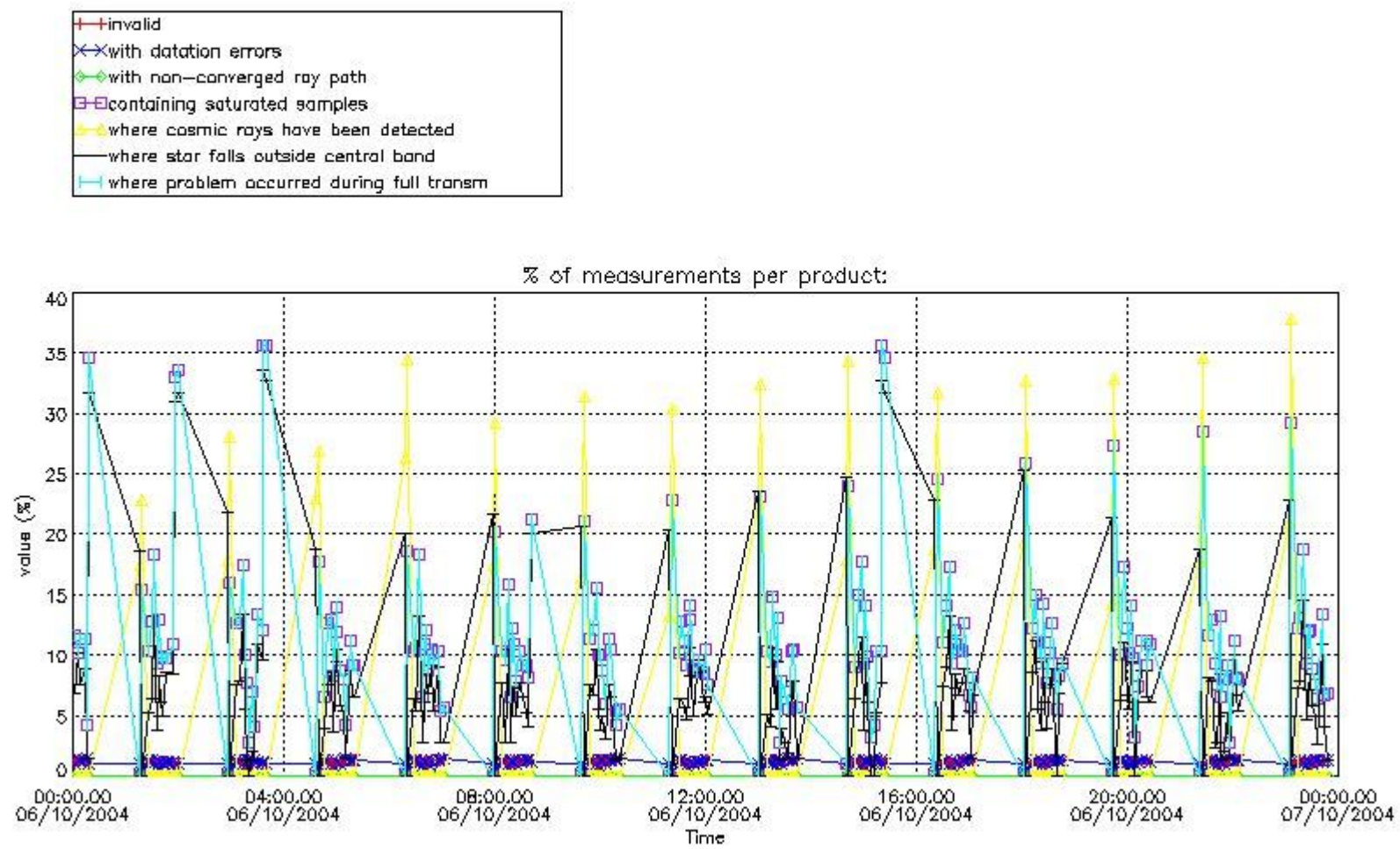
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

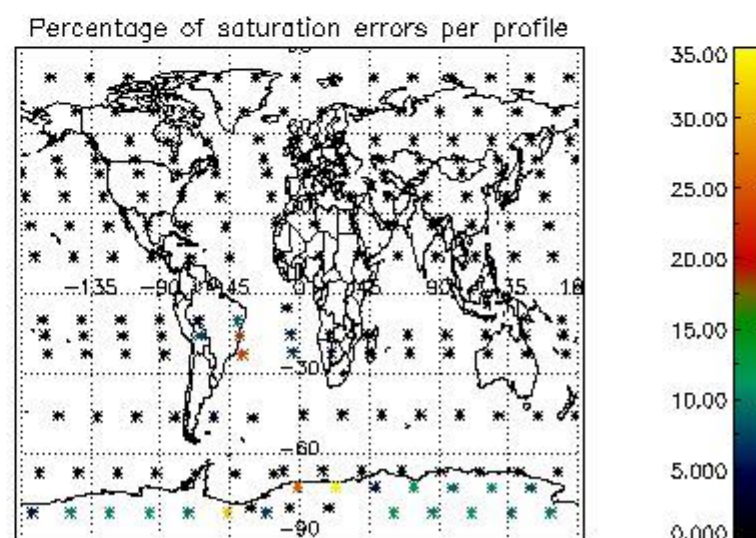
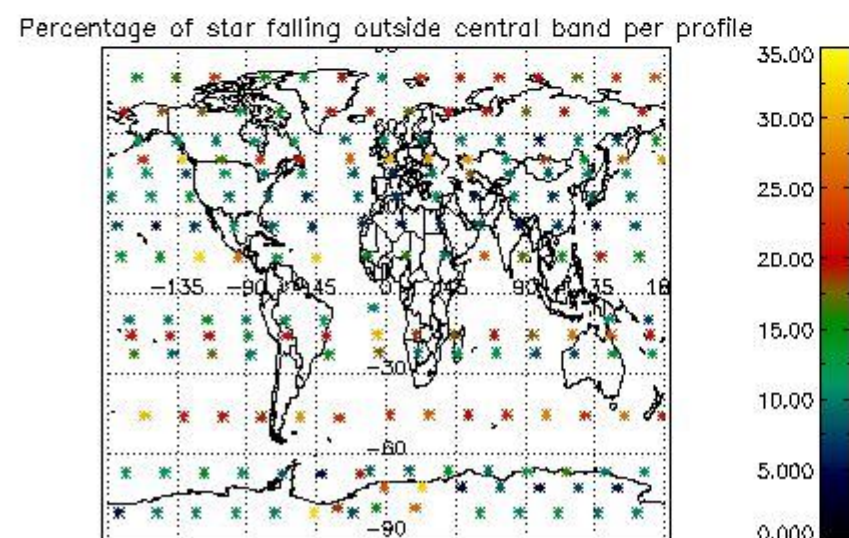
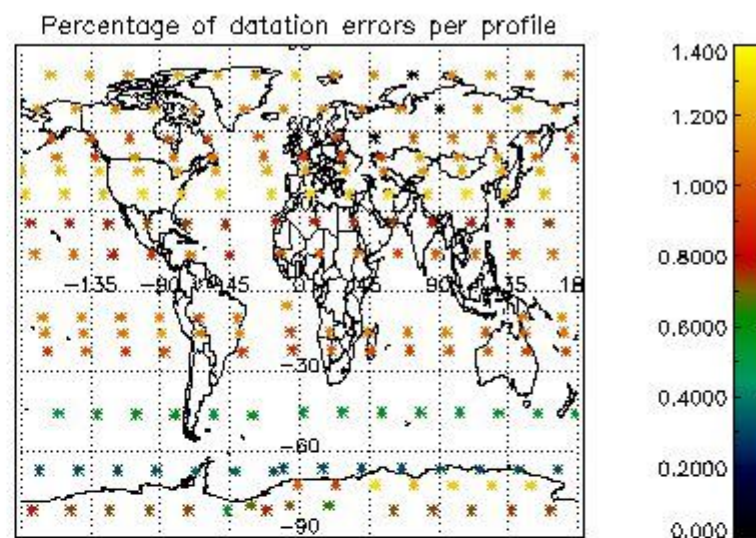
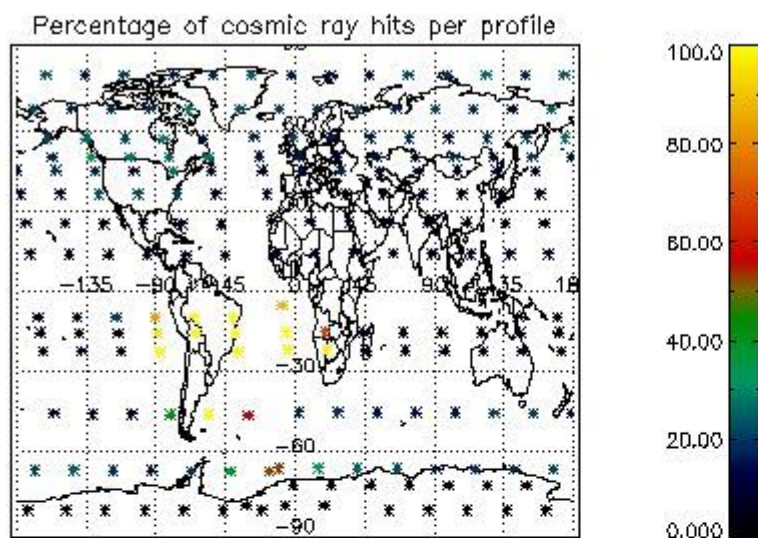


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



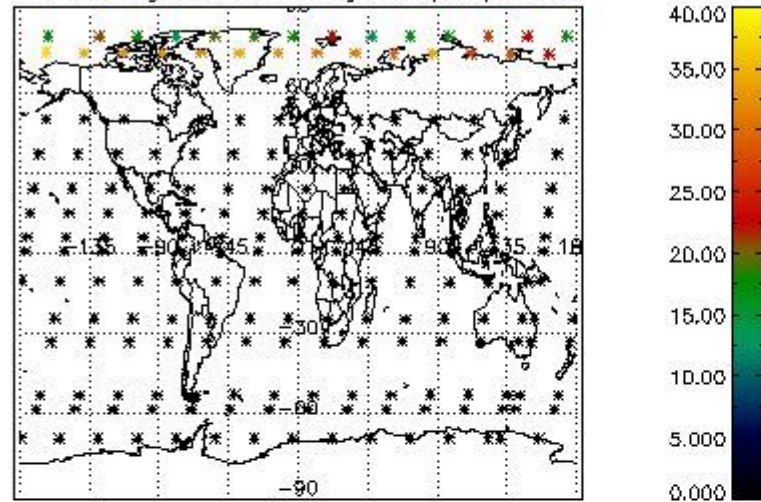
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

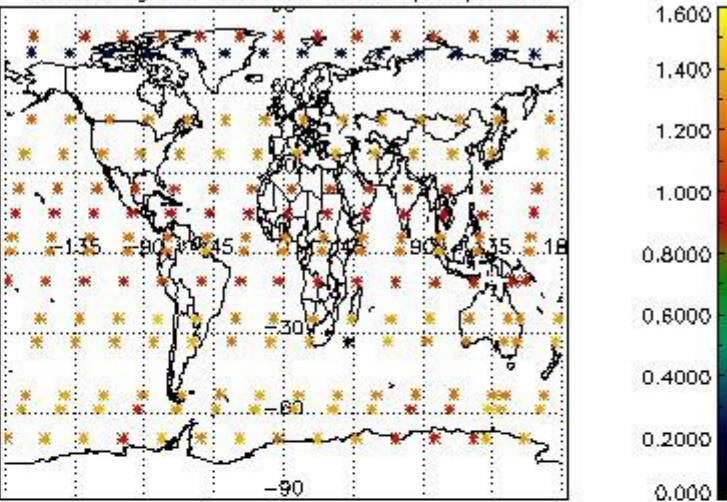


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

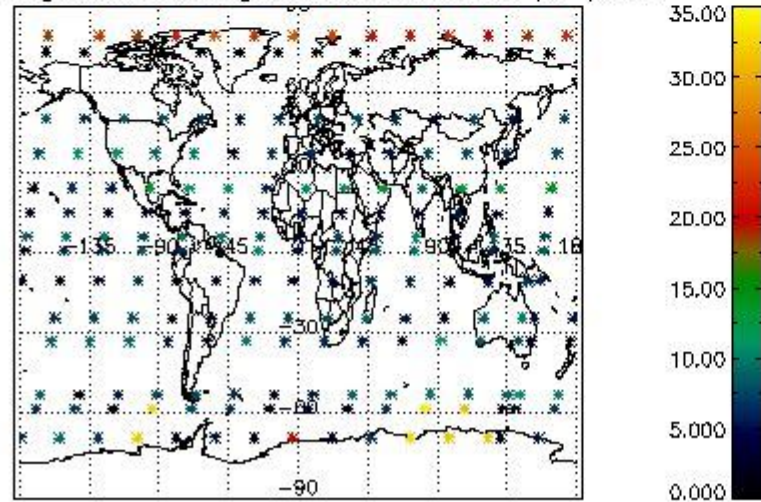
Percentage of cosmic ray hits per profile



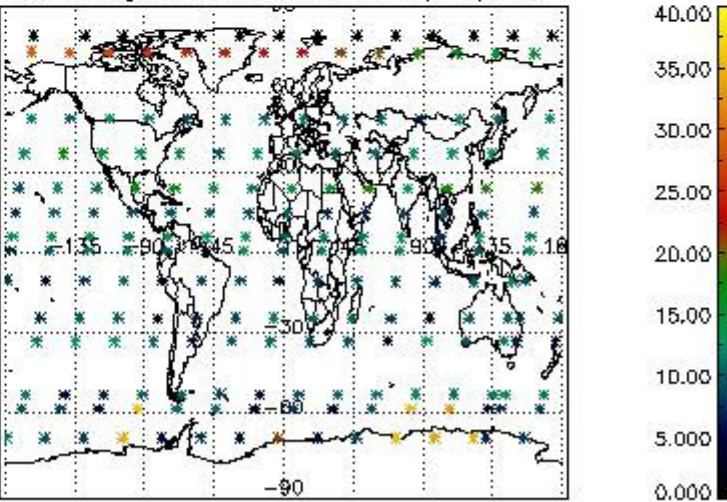
Percentage of datation errors per profile



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

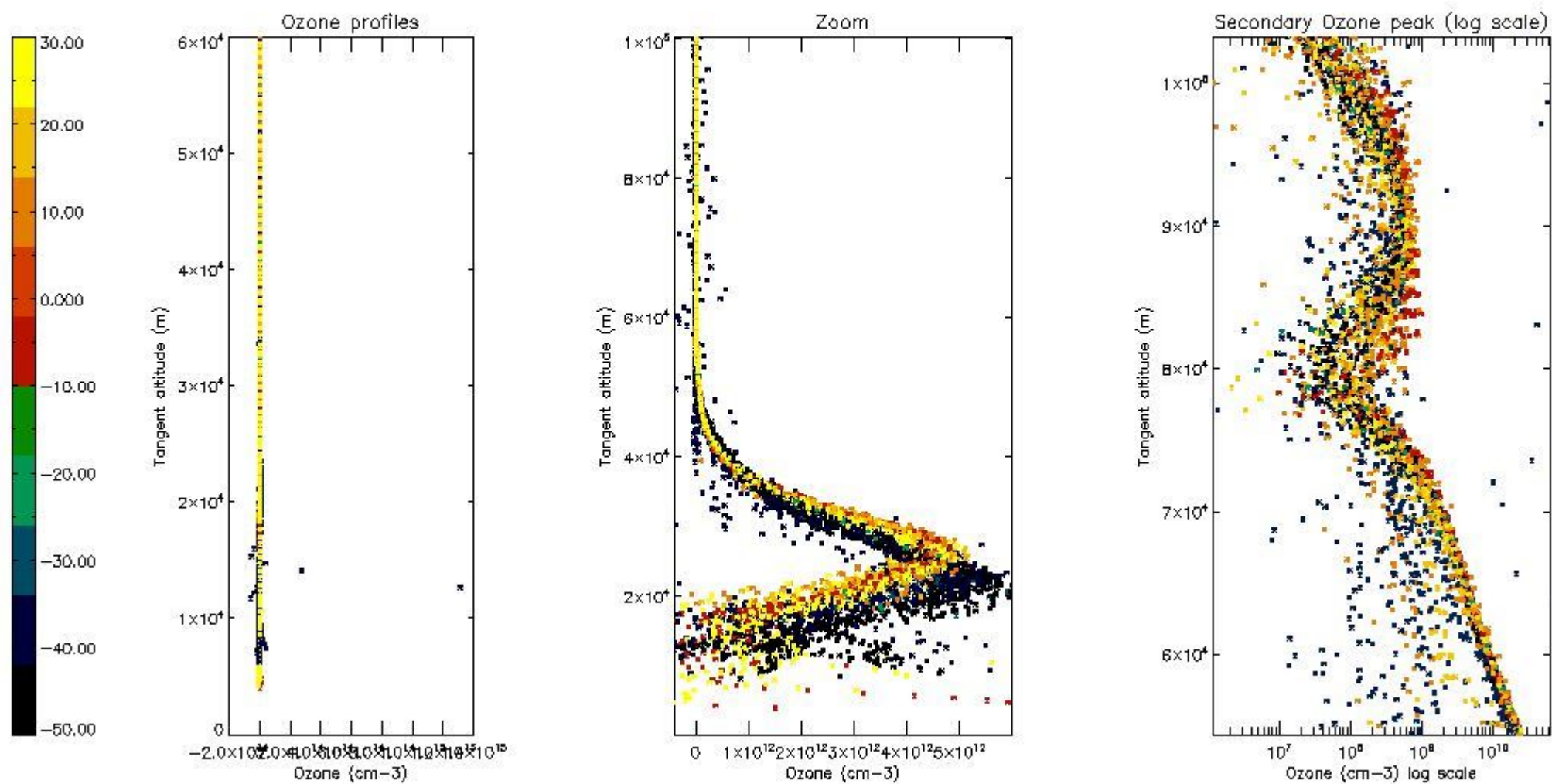
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	17

STD < 10	14
STD < 5	10

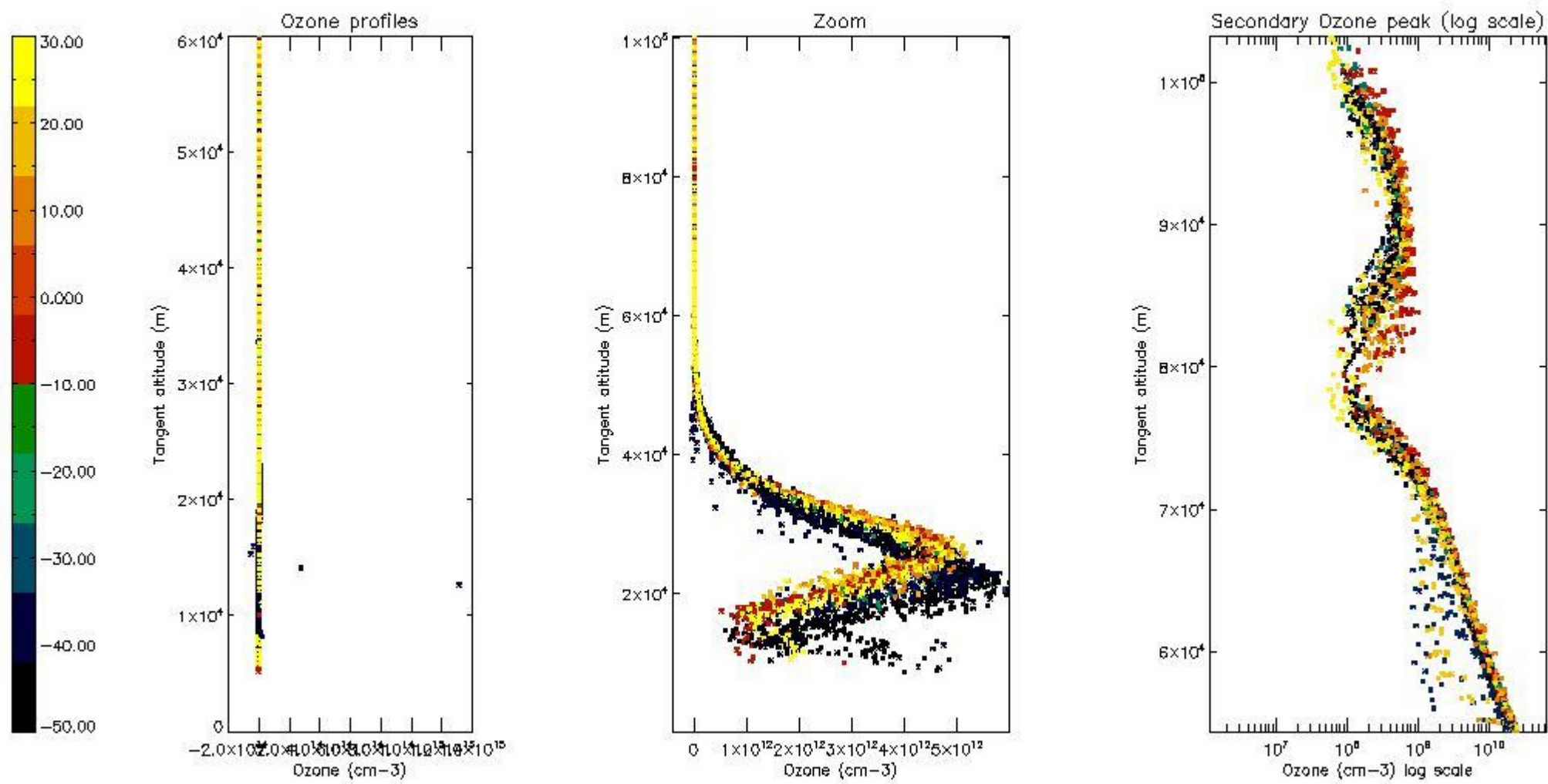
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

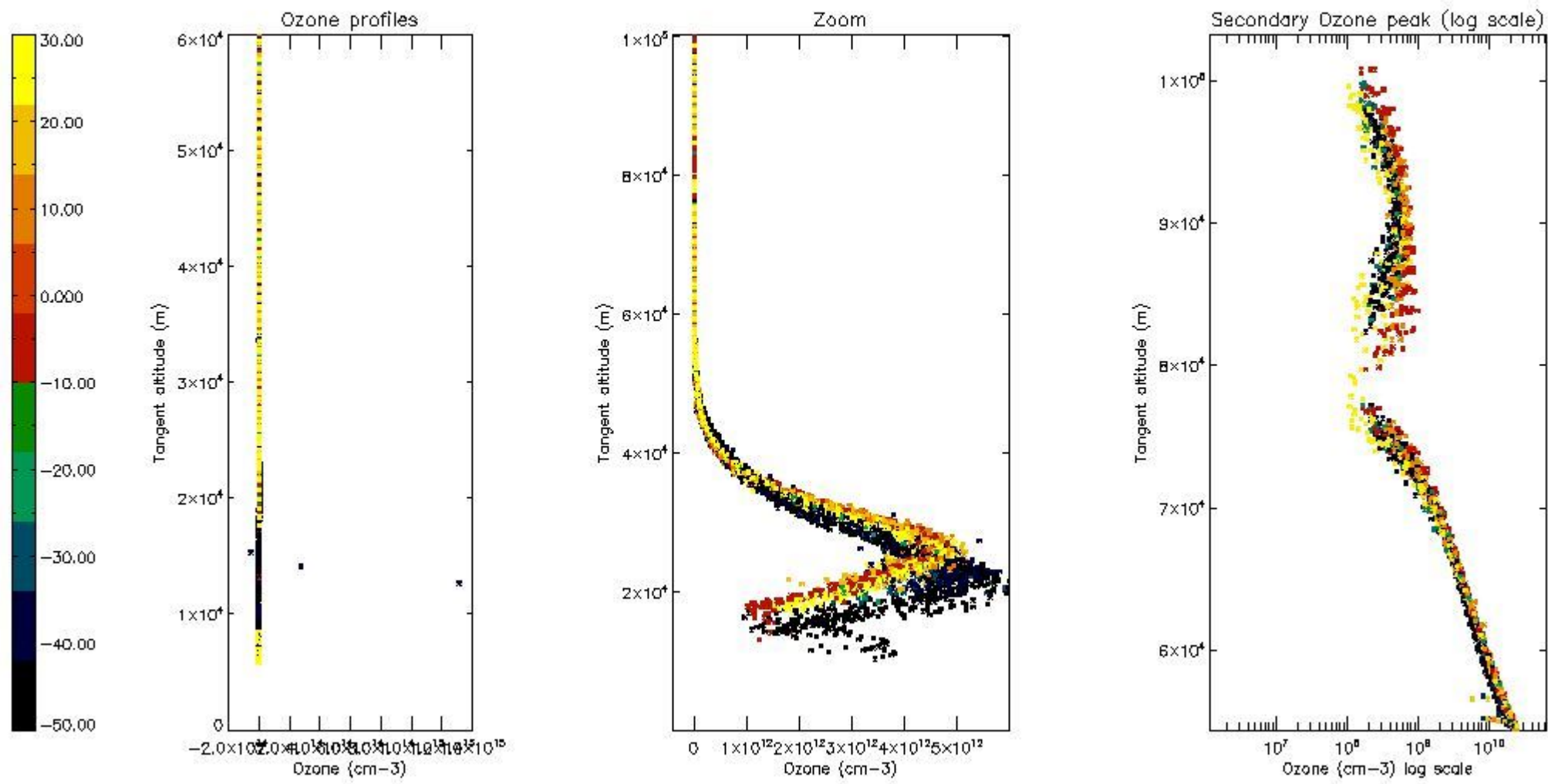
The colorbar represents the latitude.



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

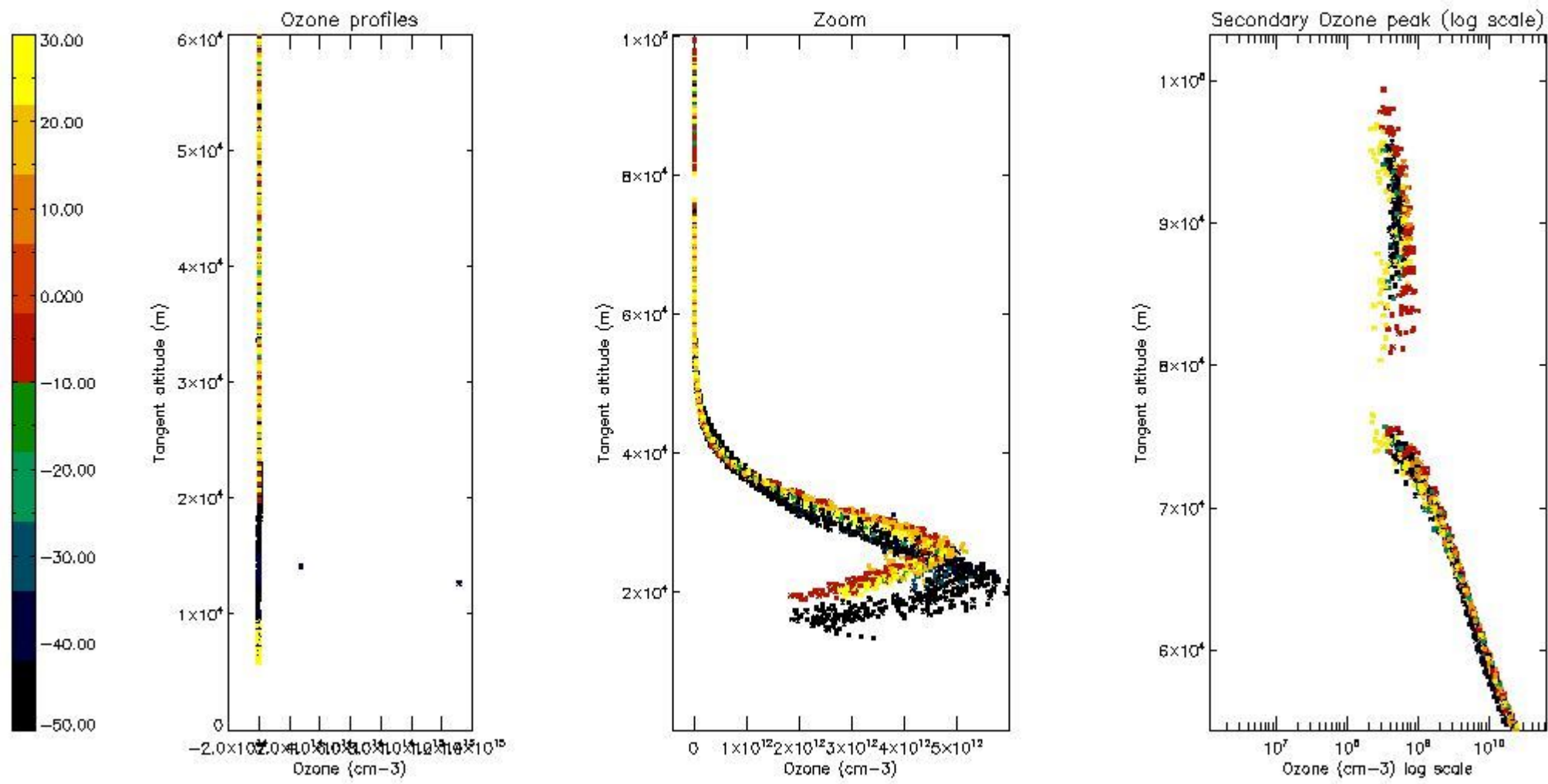
The colorbar represents the latitude.





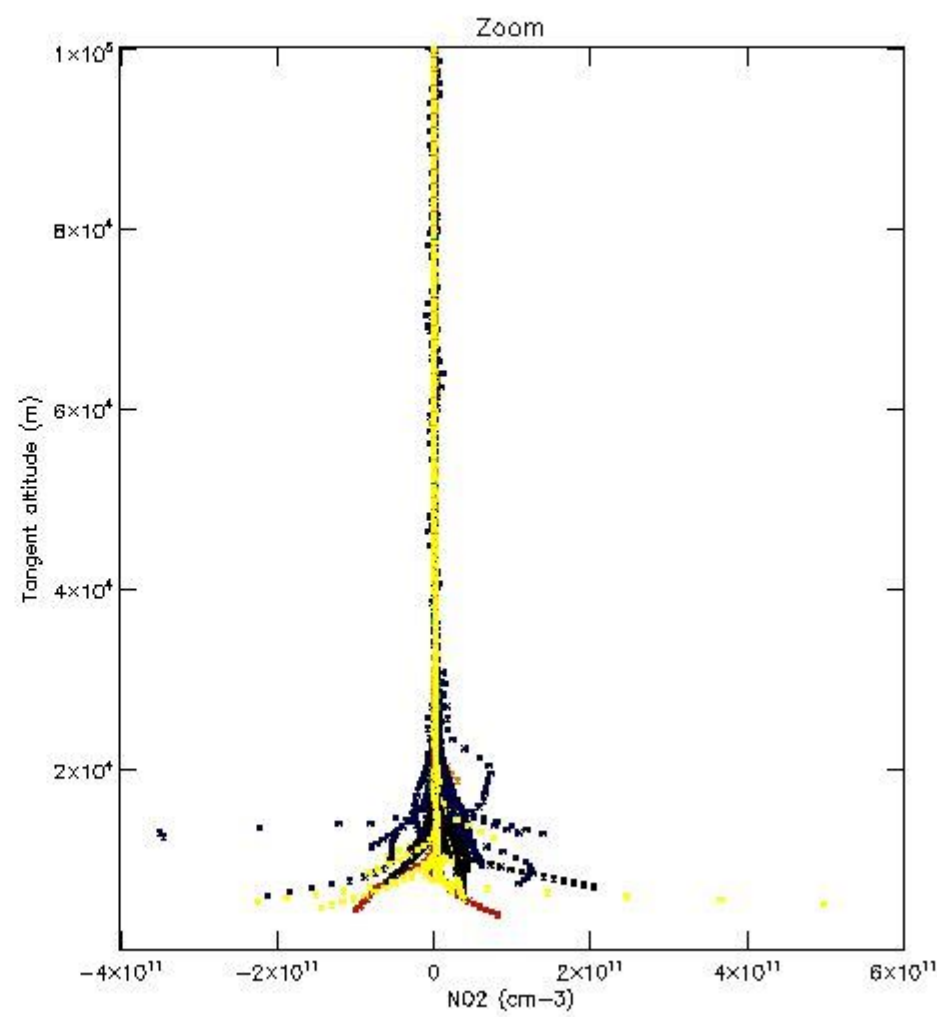
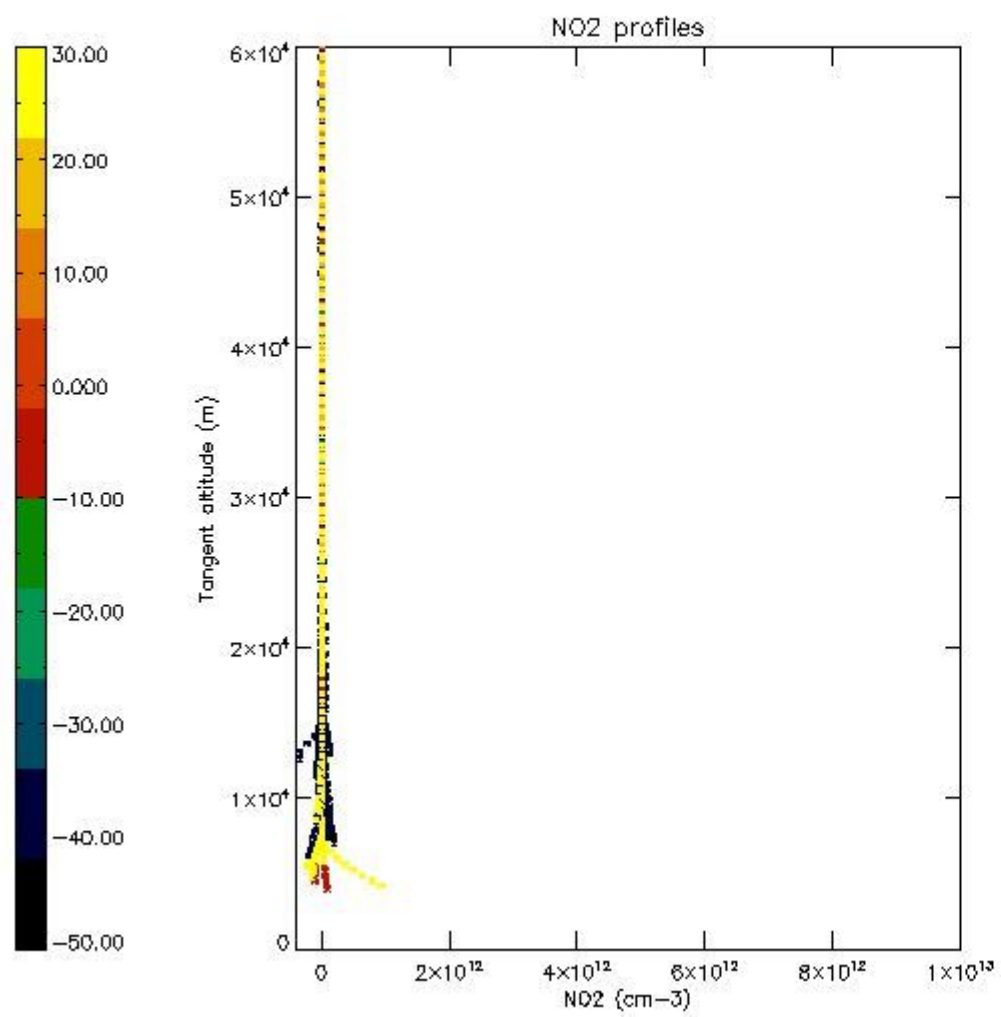
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



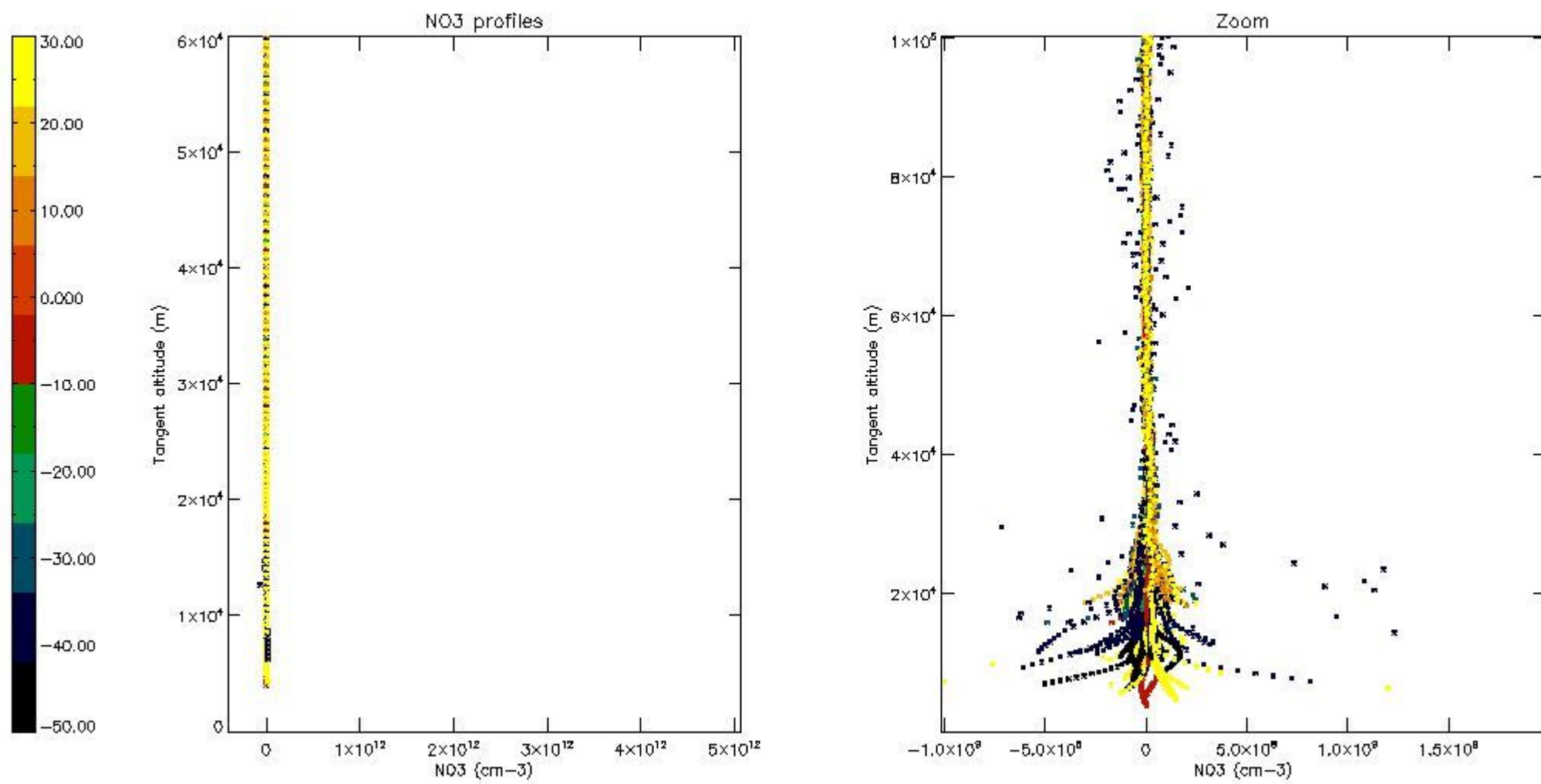
5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)

The colorbar represents the latitude.



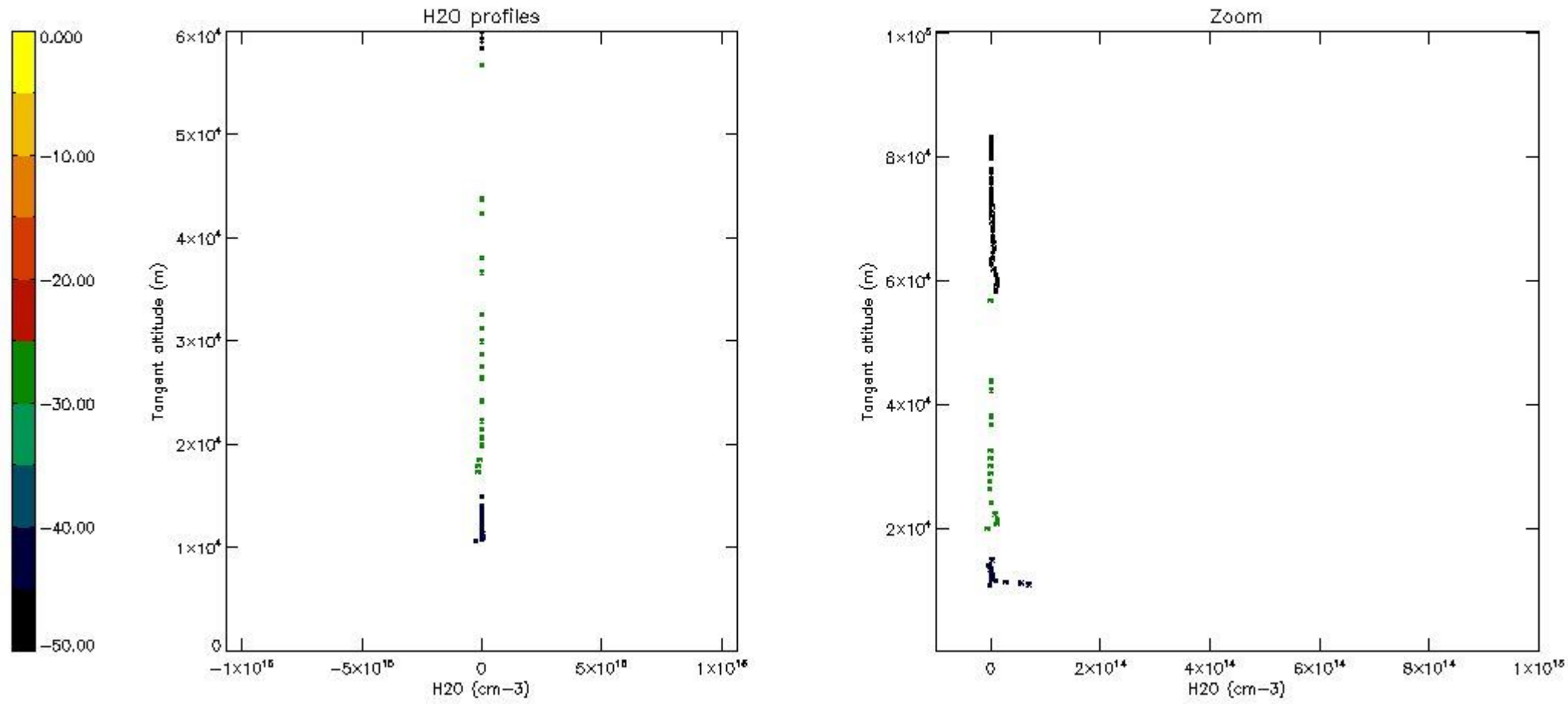
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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	06-OCT-2004 00:01:58
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-OCT-2004 00:01:58
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-OCT-2004 00:01:58

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#### [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](#)















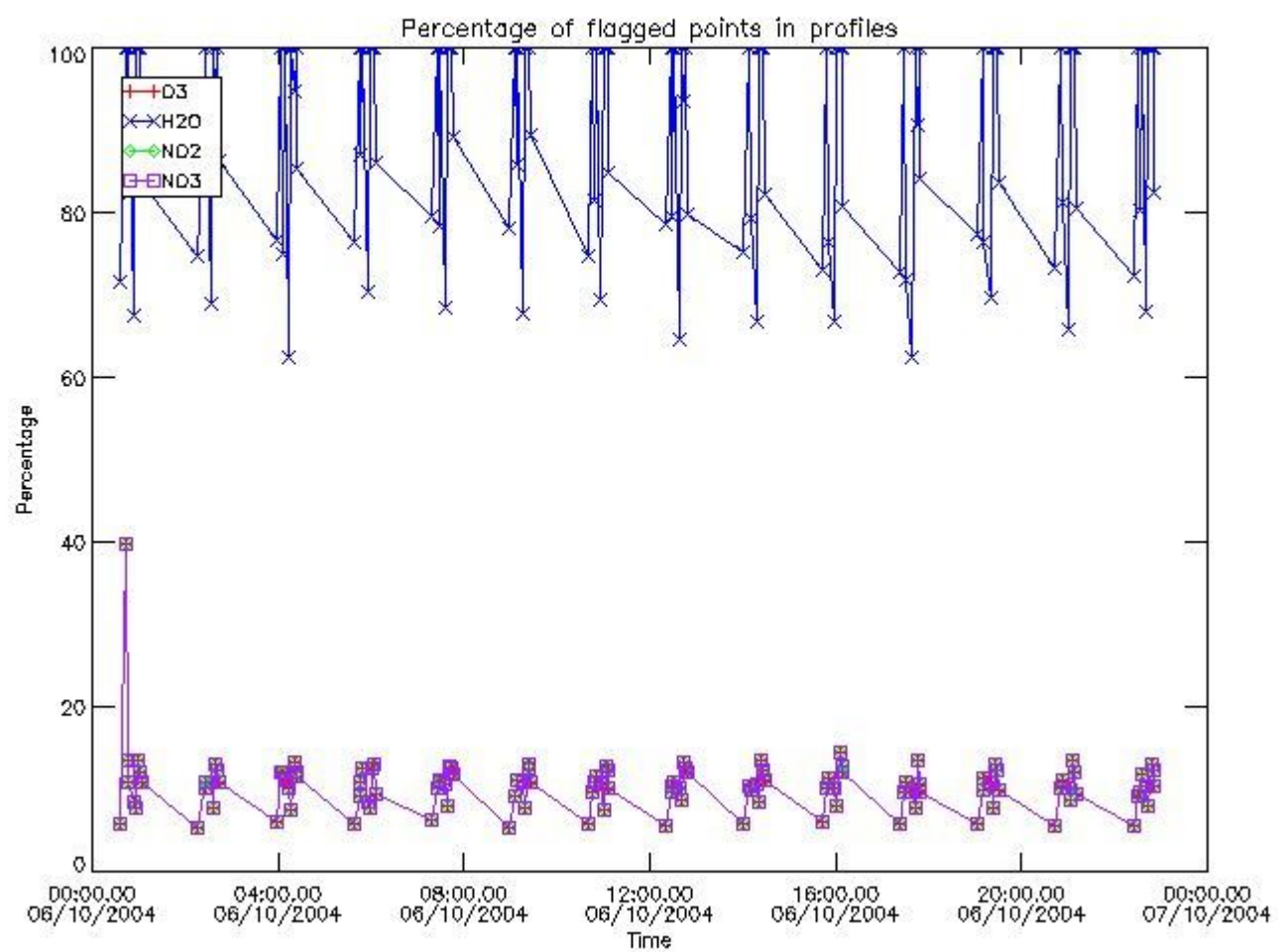


397	GOM_NL__2PRFIN20041006_234346_000000372031_00030_13611_4655.N1	06-OCT-2004 23:43:46	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	13611	No
398	GOM_NL__2PRFIN20041006_234703_000000372031_00030_13611_4656.N1	06-OCT-2004 23:47:03	Bright	36.500	174	52Psi UMa	3.0040	4400.0	73	13611	No
399	GOM_NL__2PRFIN20041006_235230_000000702031_00030_13611_4657.N1	06-OCT-2004 23:52:30	Bright	69.500	24	66Alp Gem	1.5800	10200.	139	13611	No
400	GOM_NL__2PRFIN20041006_235654_000000492031_00030_13611_4658.N1	06-OCT-2004 23:56:54	Bright	49.000	22	32Alp Leo	1.3600	15200.	98	13611	No
401	GOM_NL__2PRFIN20041006_235850_000001632031_00030_13611_4659.N1	06-OCT-2004 23:58:50	Straylight	163.00	170	27Eps Gem	3.0000	9700.0	326	13611	No

### 3. Quality information per product

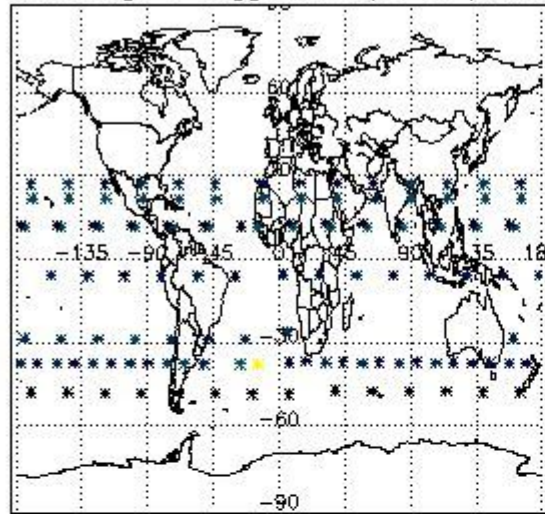
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

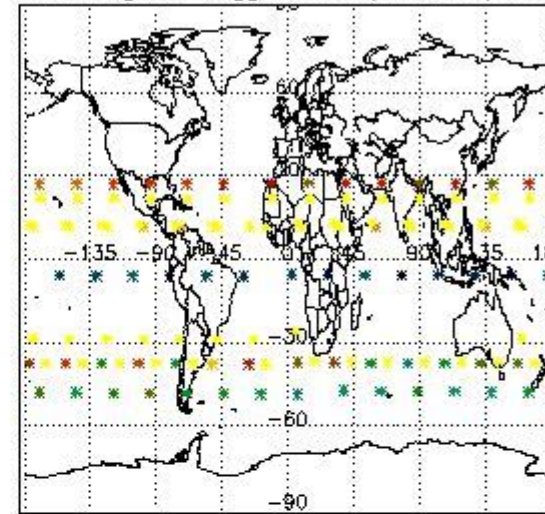


#### 3.2 Plot quality information per product (world map)

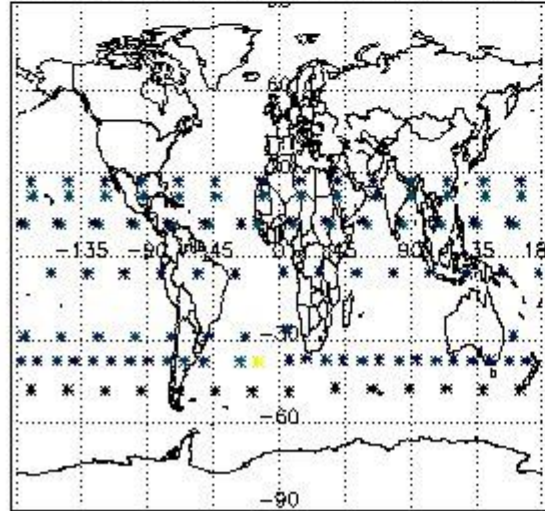
Percentage of flagged data per O3 profile



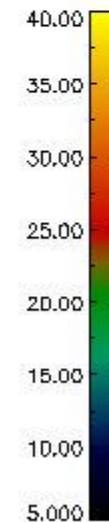
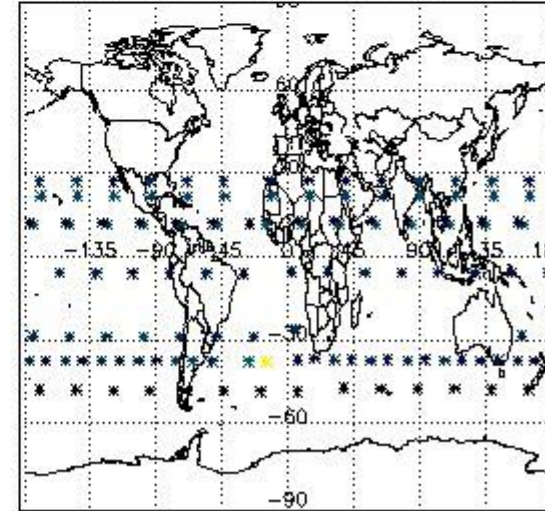
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

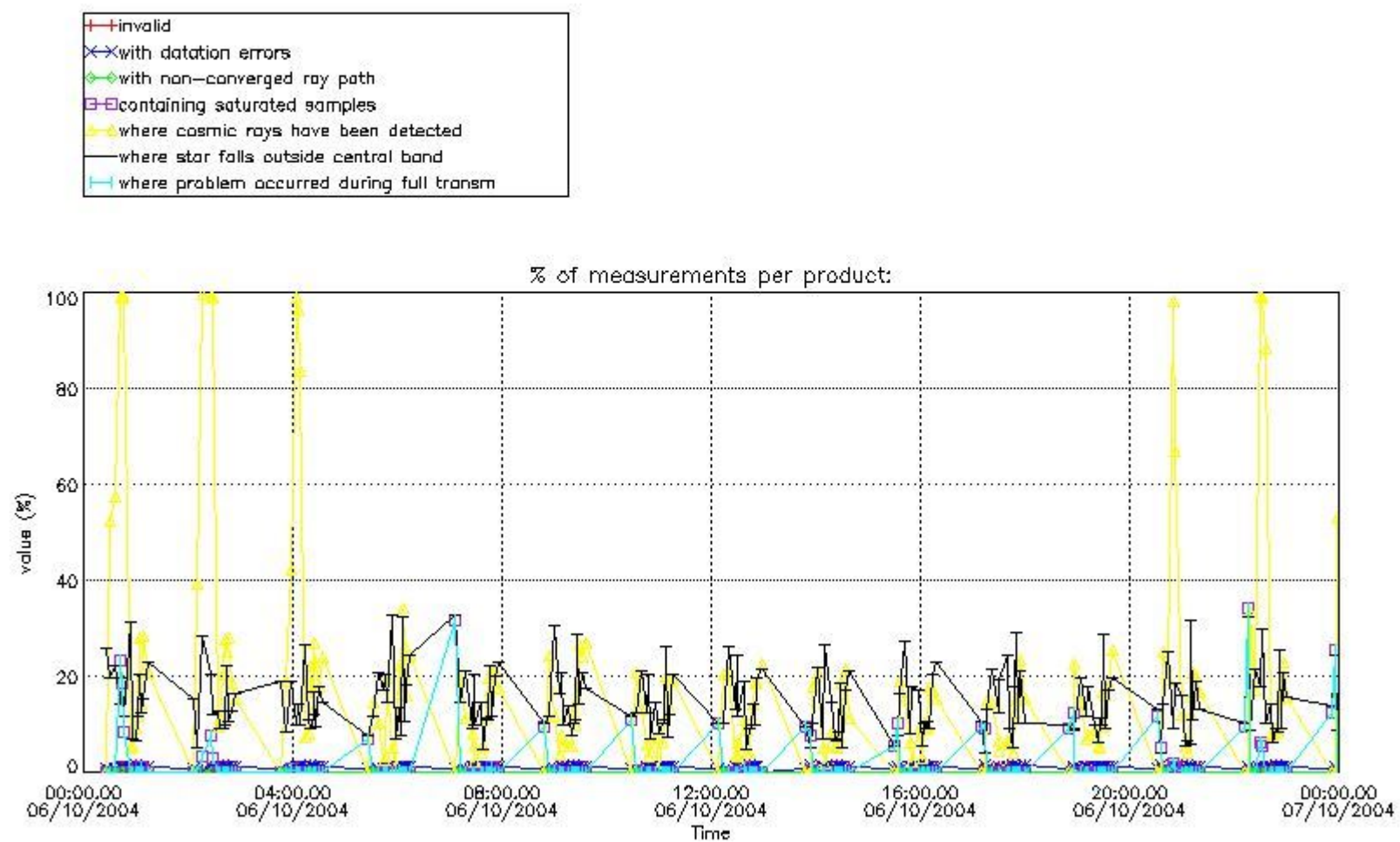


#### 4. Level 1 quality information per product

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.

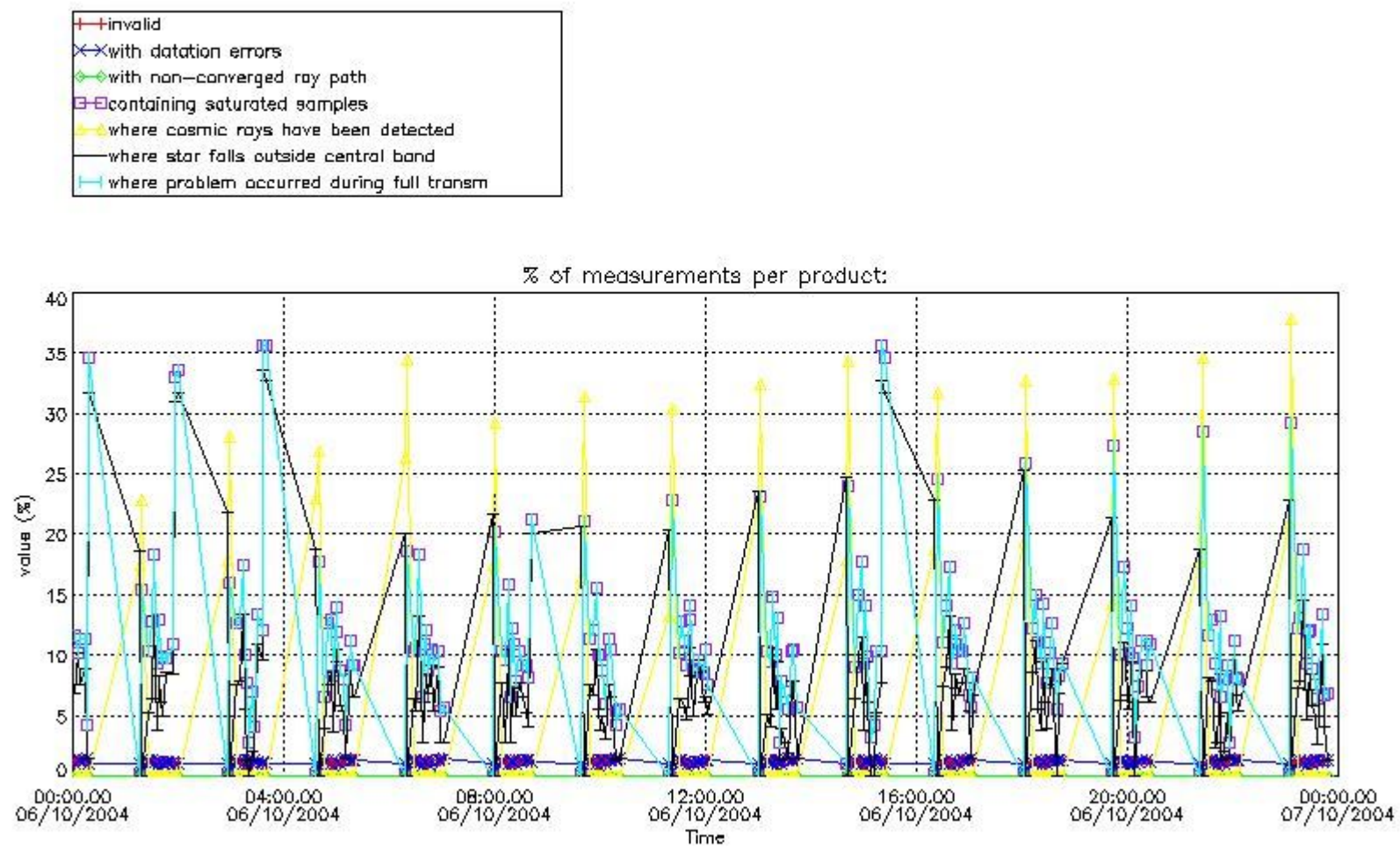
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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



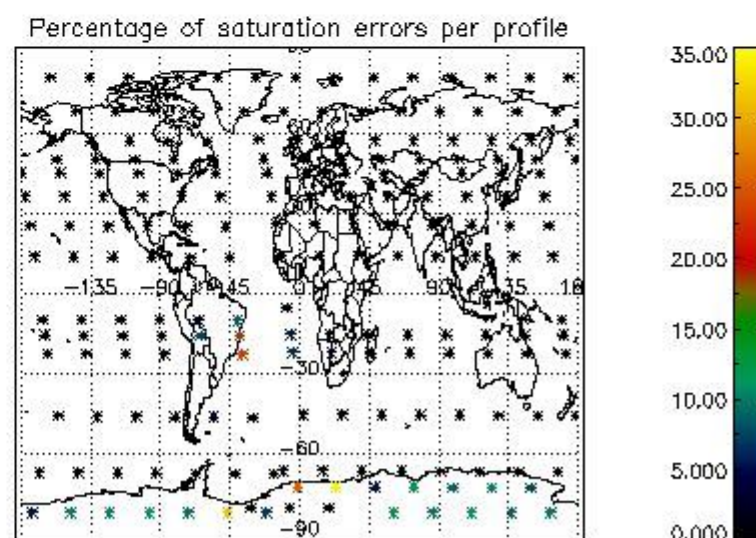
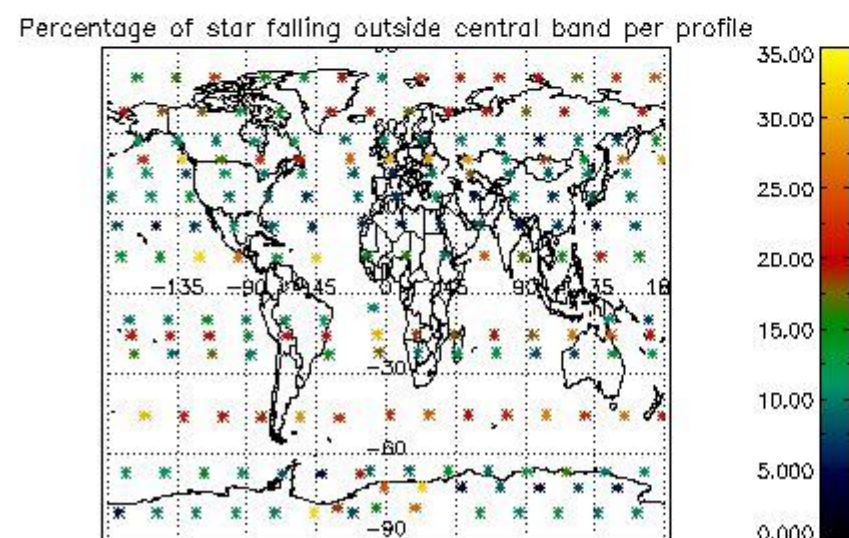
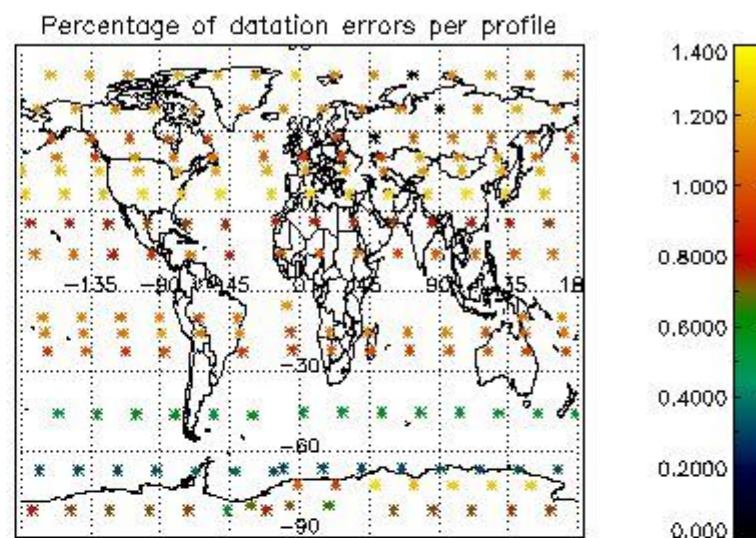
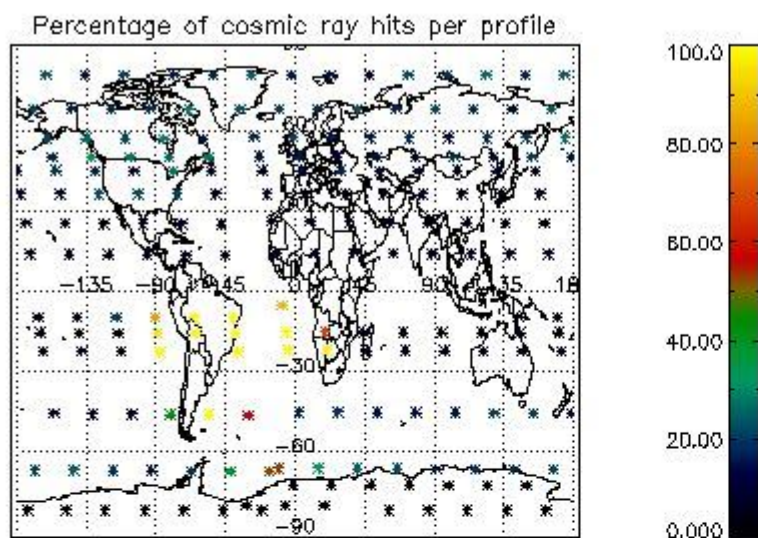
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



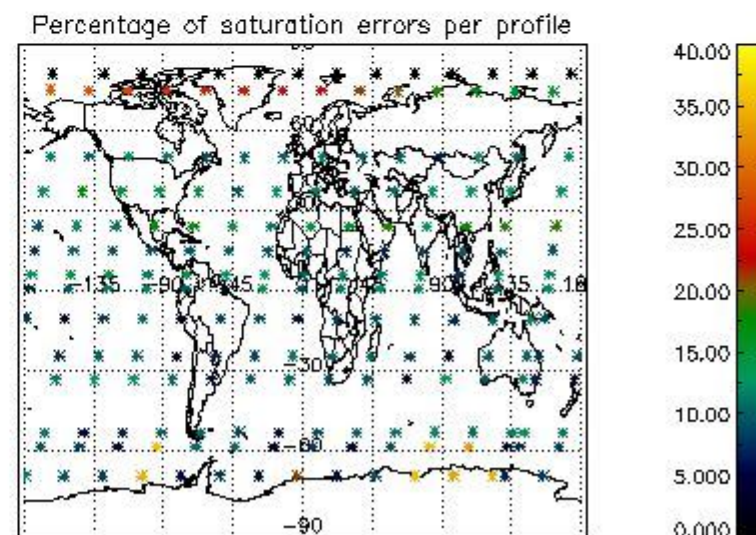
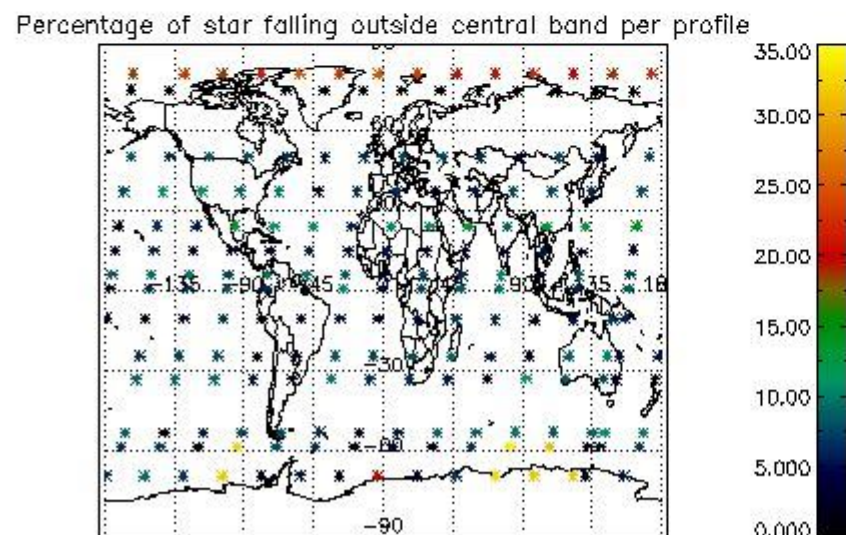
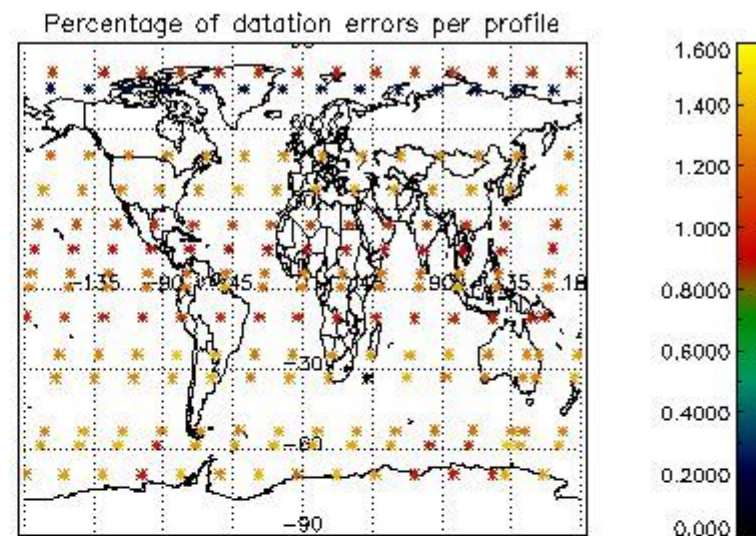
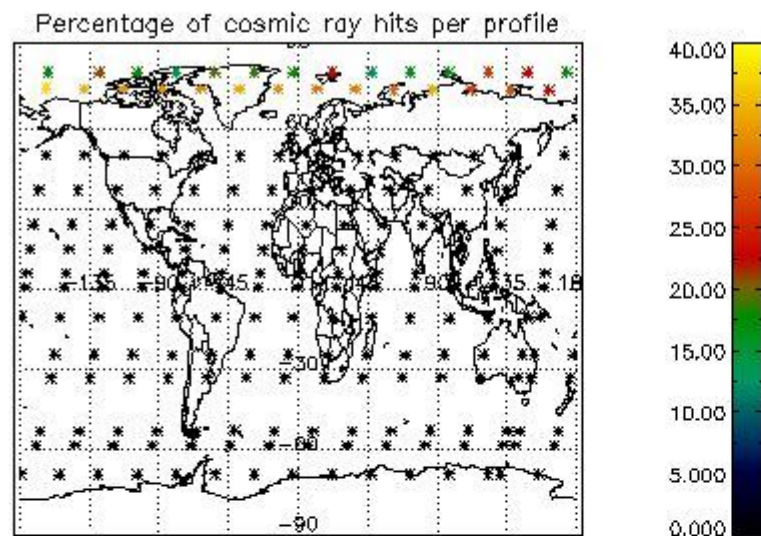


#### 4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

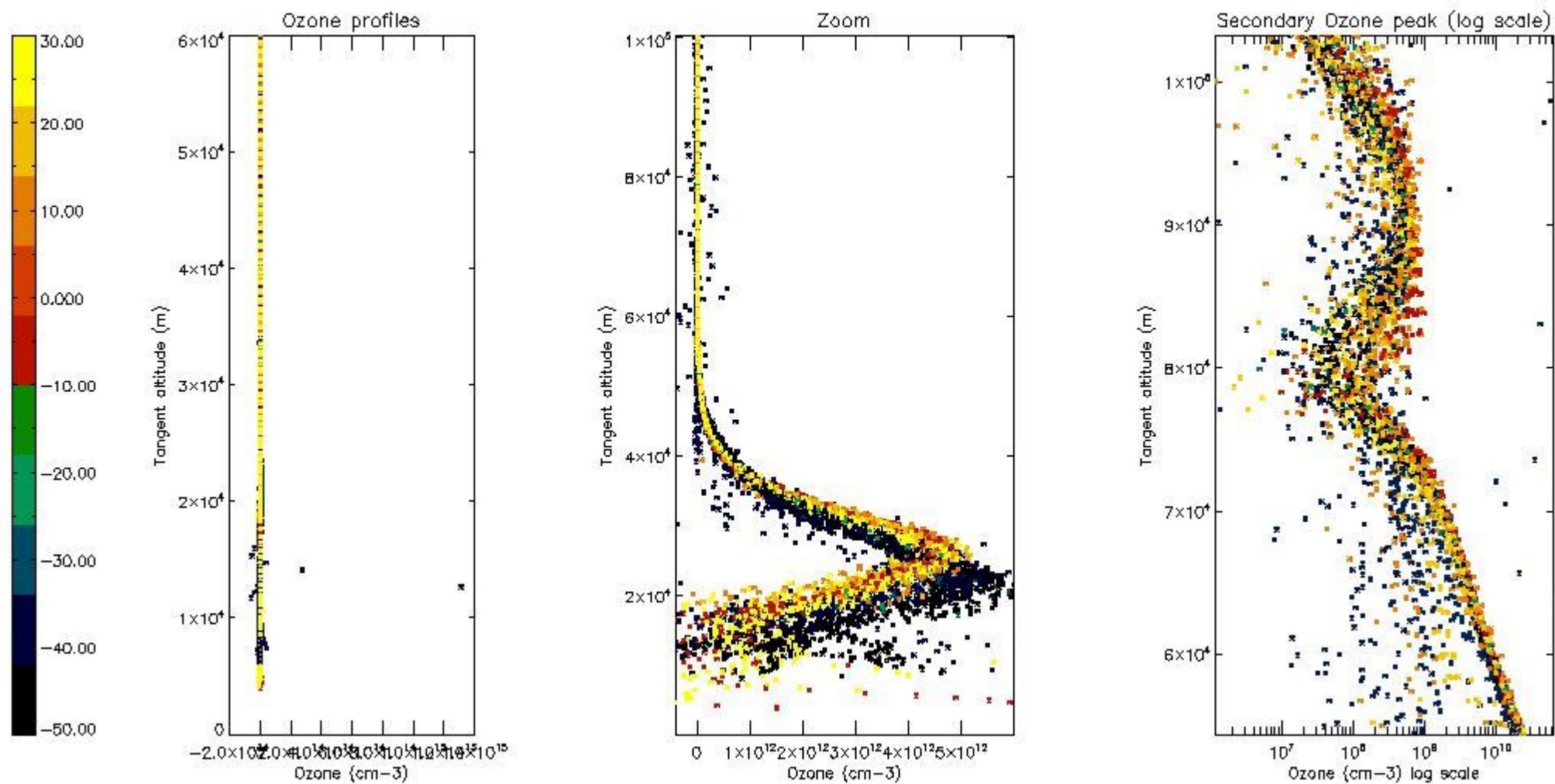
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	17

STD < 10	14
STD < 5	10

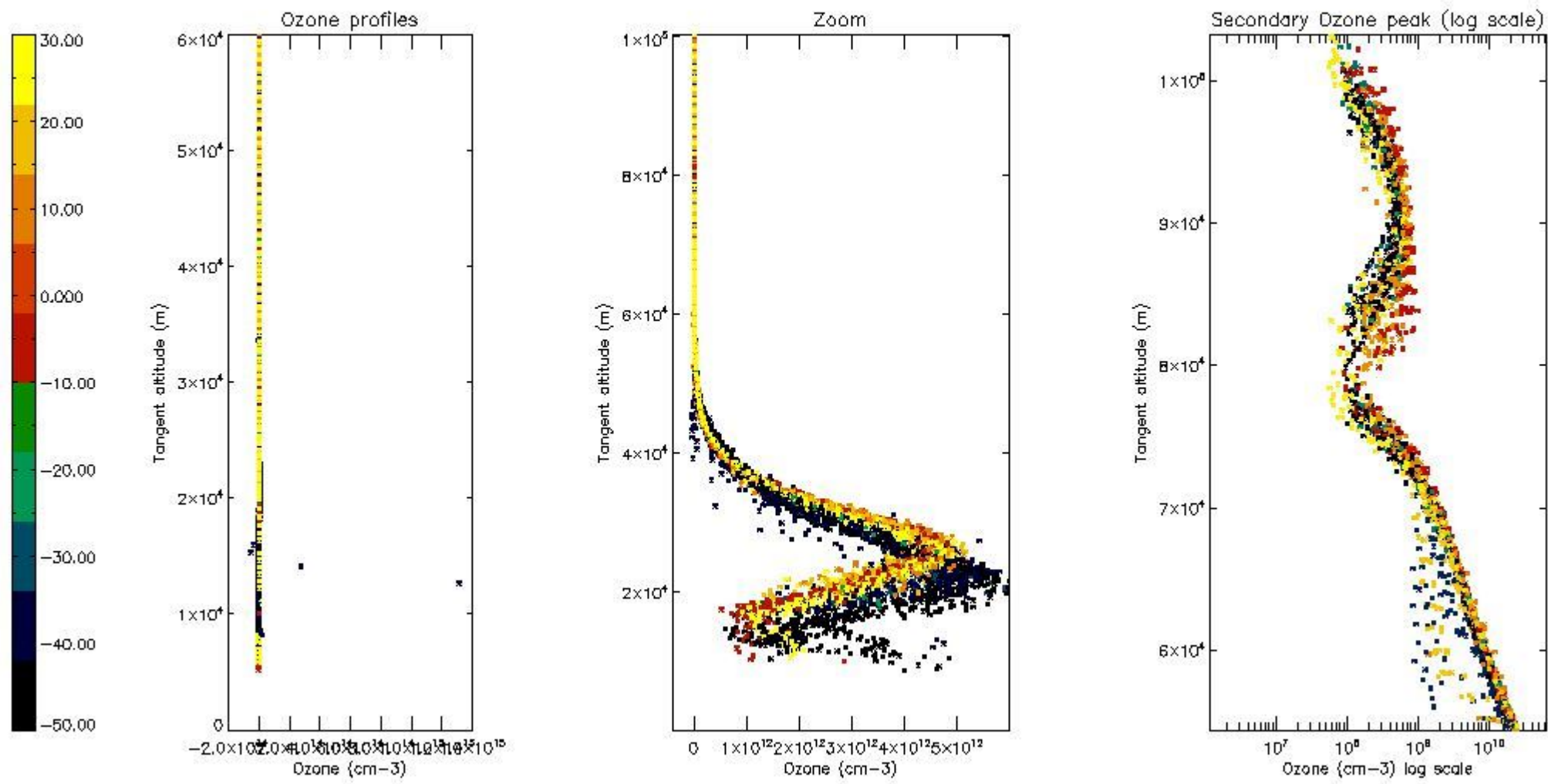
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



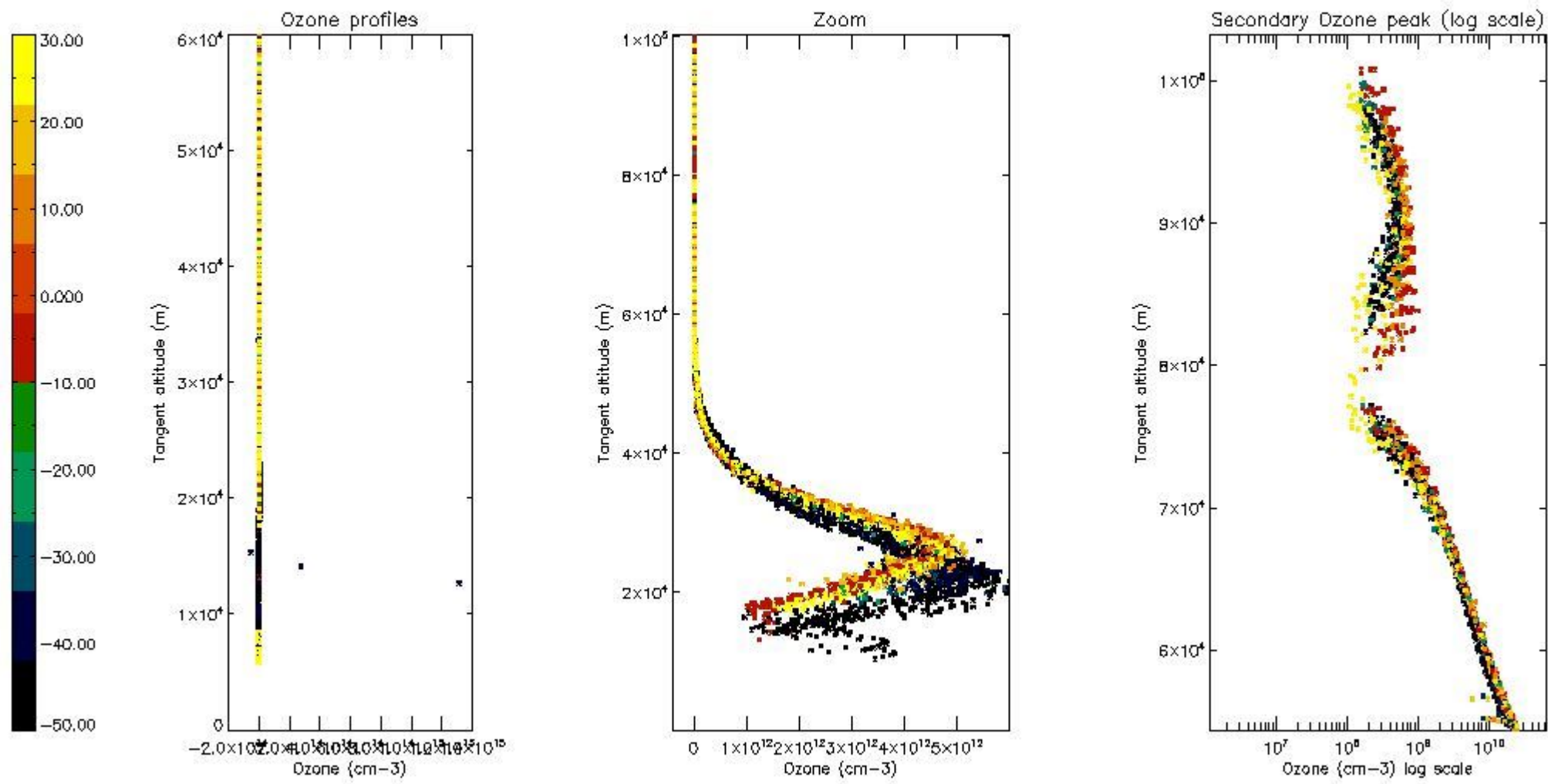
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



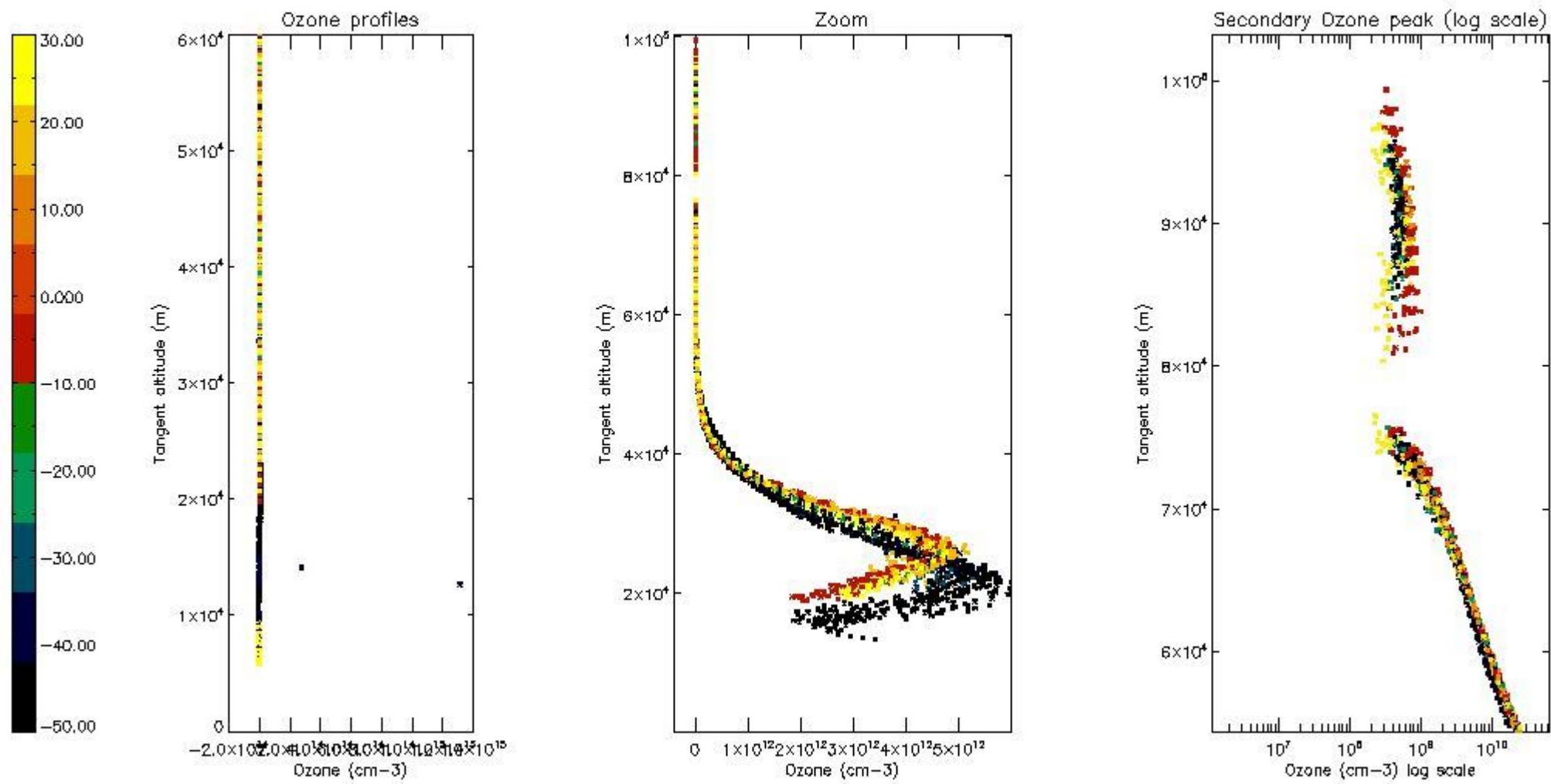
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



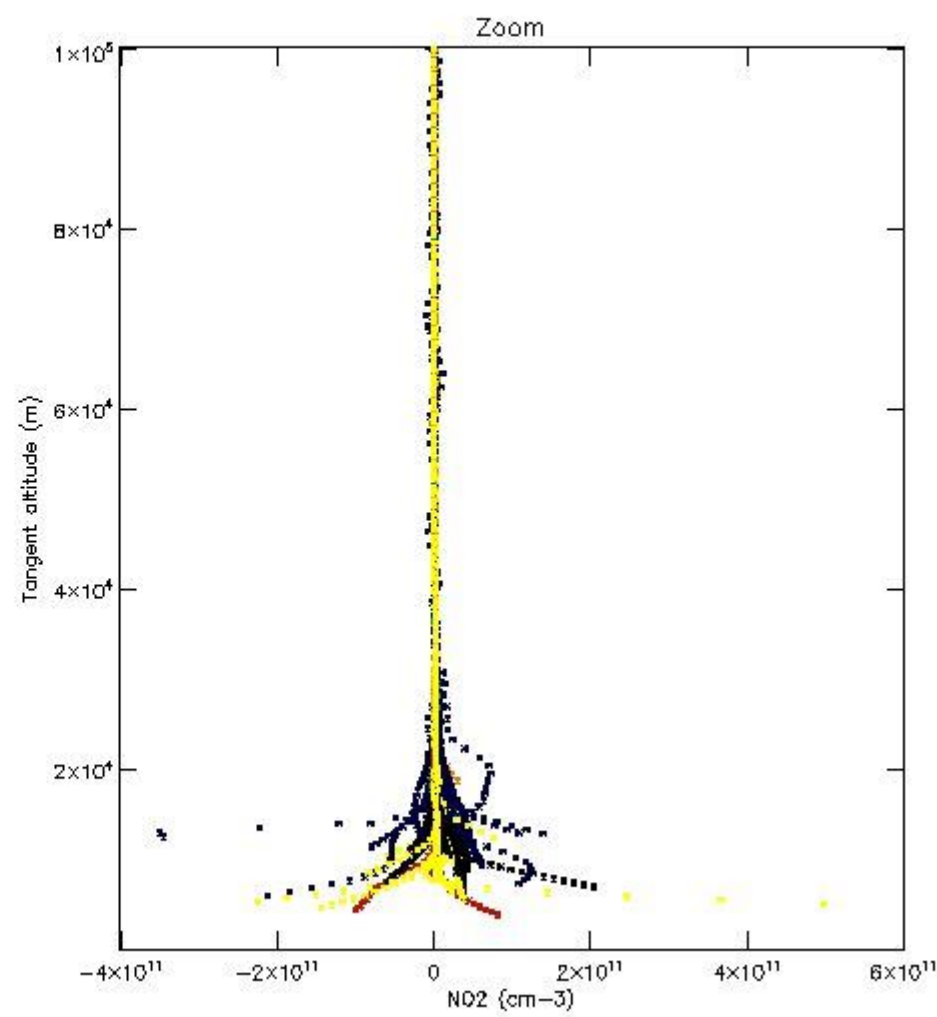
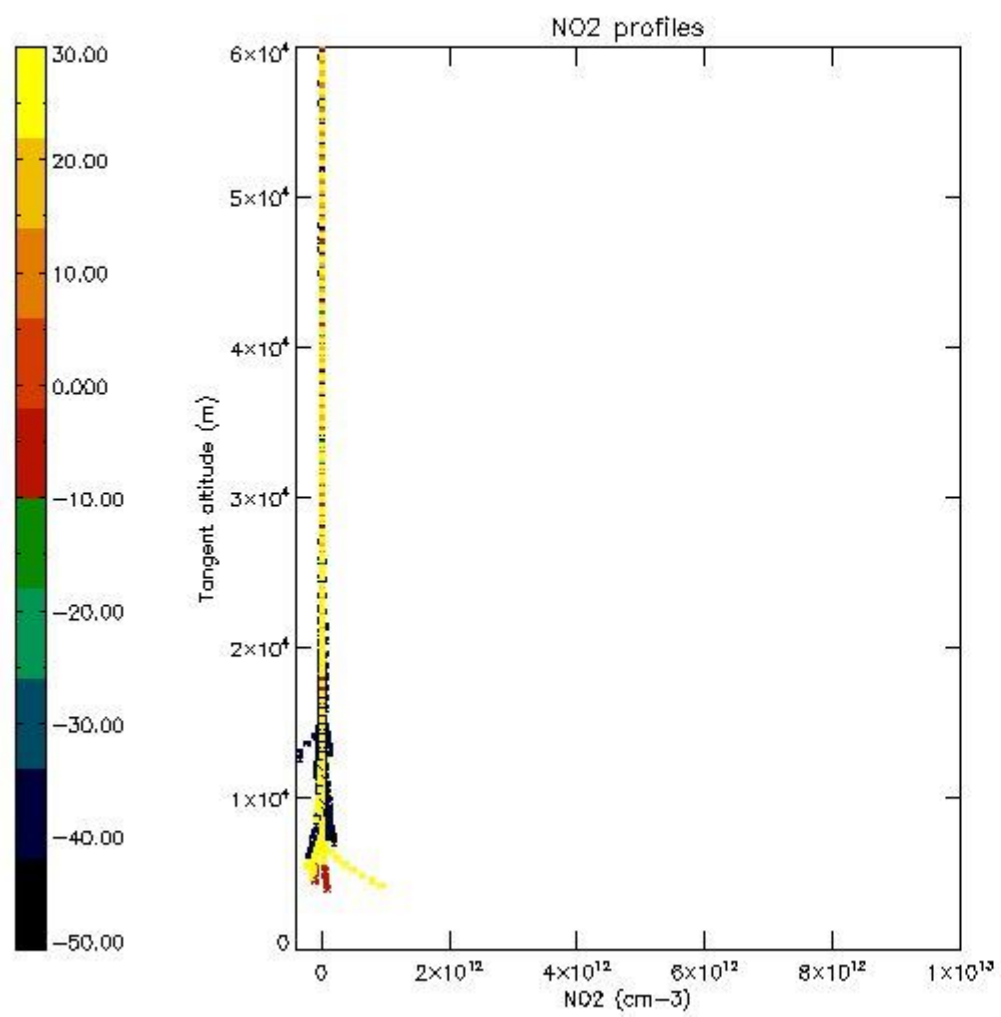
*5.5 Plot ozone profiles where  $STD < 5\%$  (dark without errors)*

The colorbar represents the latitude.



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

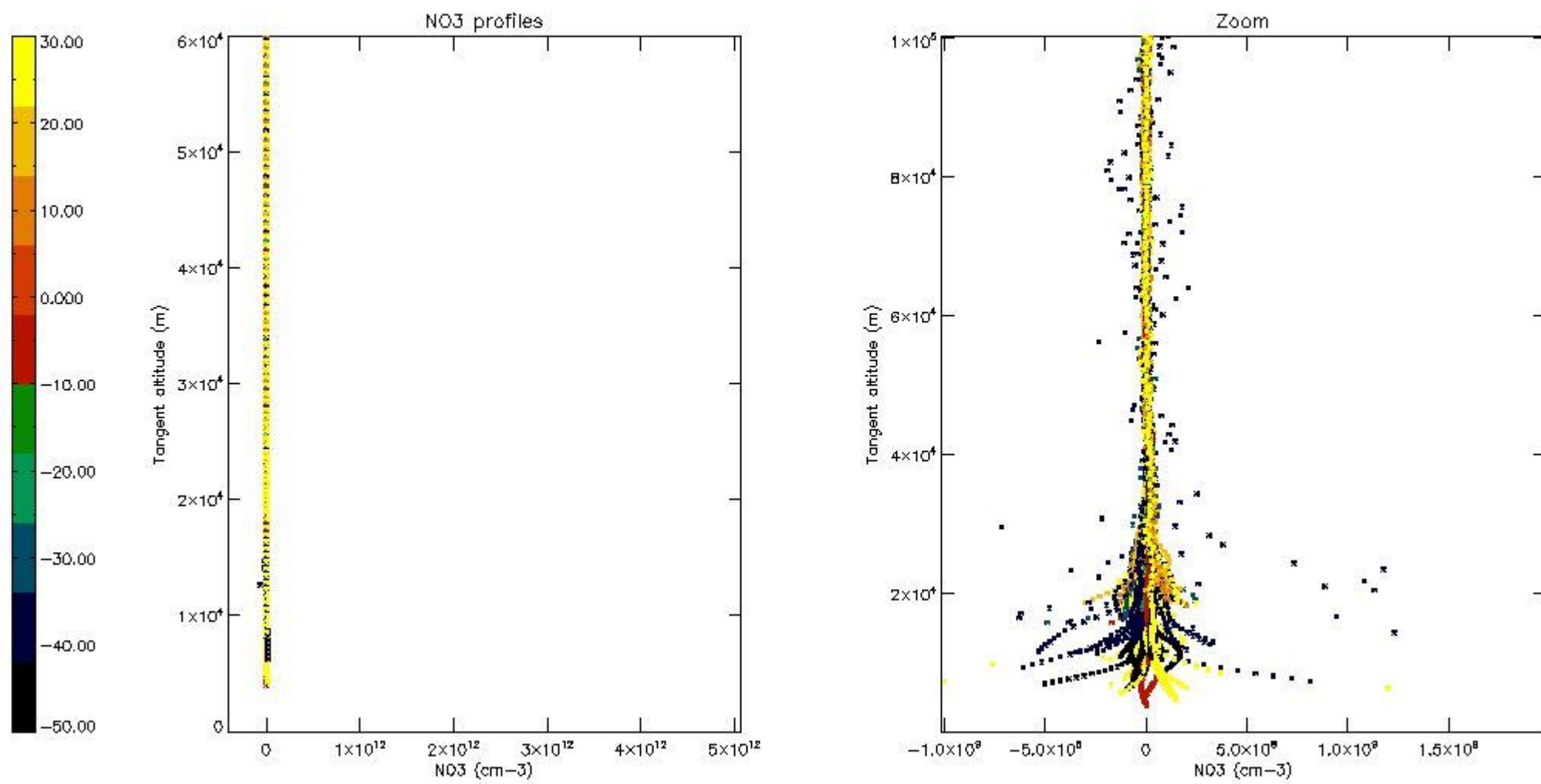
The colorbar represents the latitude.



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

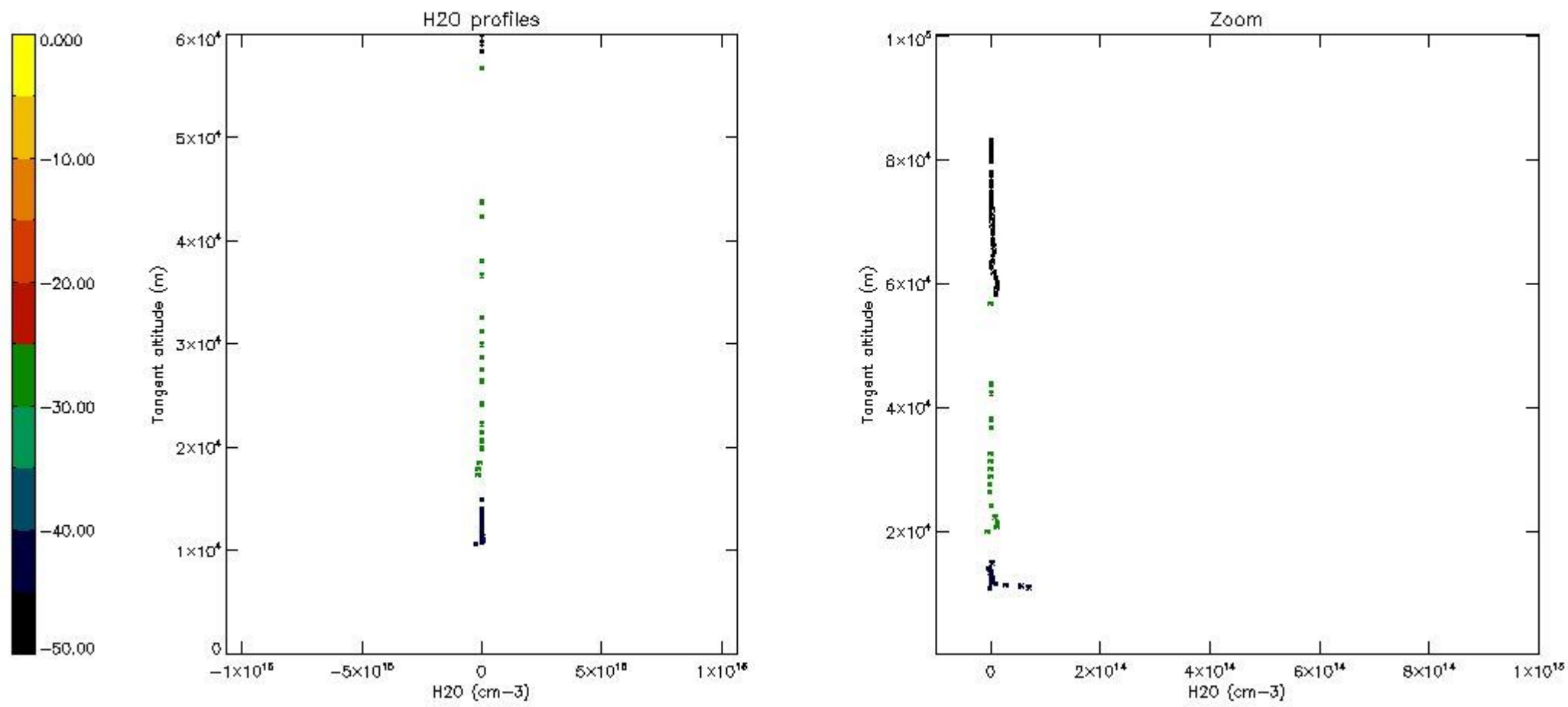
The colorbar represents the latitude.





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)

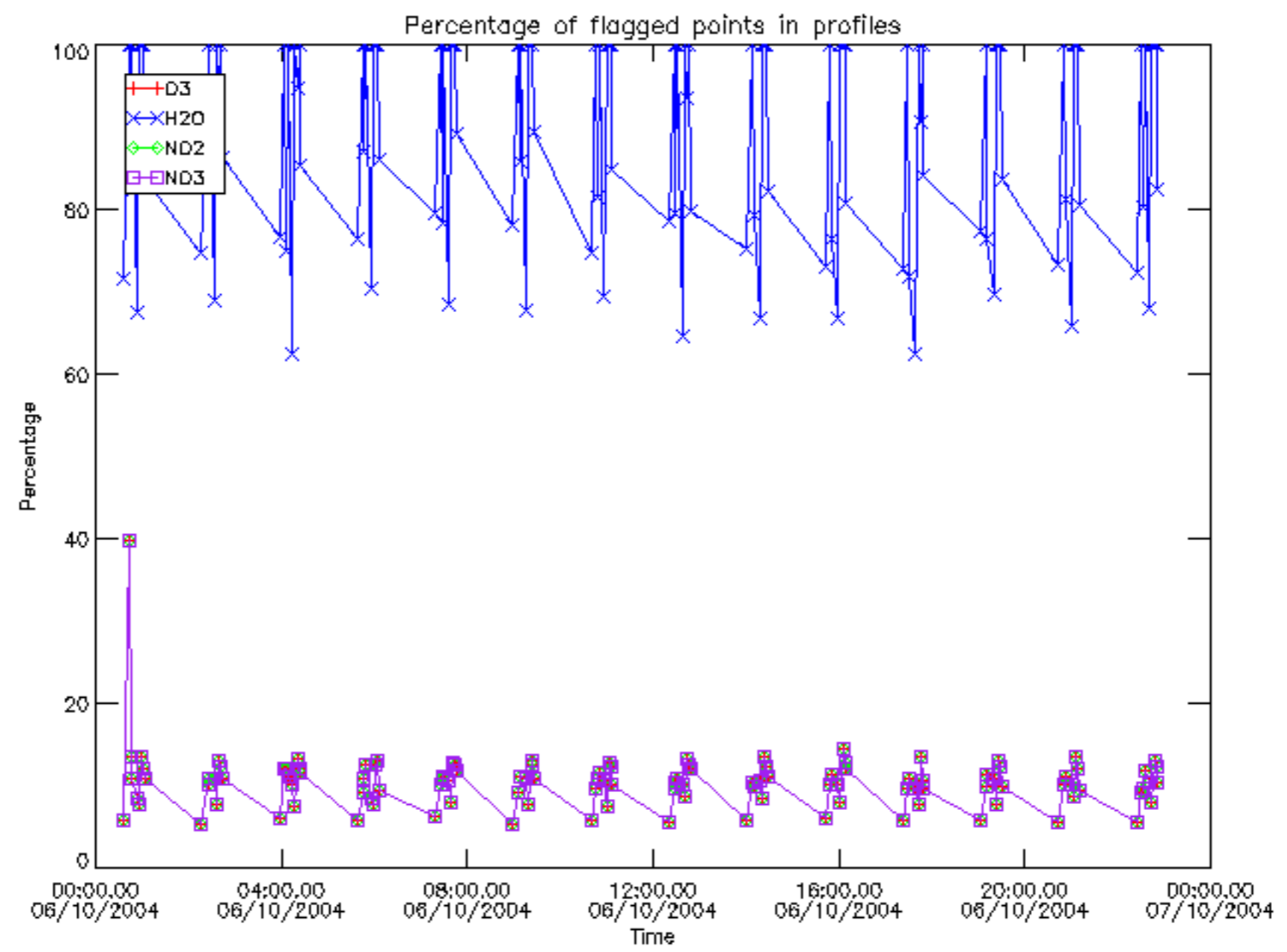
The colorbar represents the latitude.



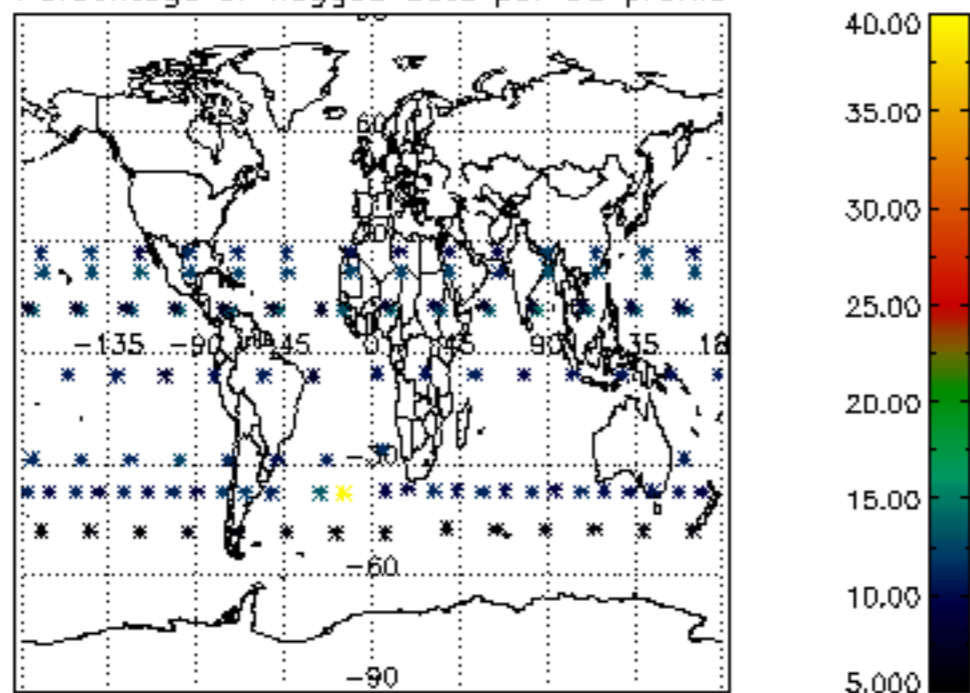
## 6. Auxiliary Data Files used for the production reported in section 2

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.

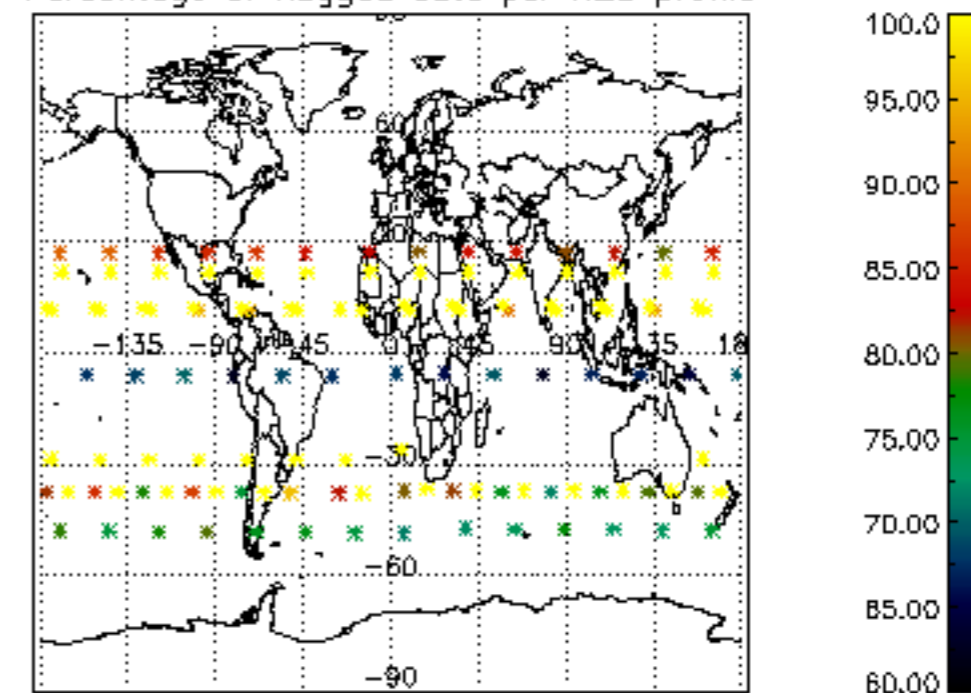
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	06-OCT-2004 00:01:58
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-OCT-2004 00:01:58
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-OCT-2004 00:01:58



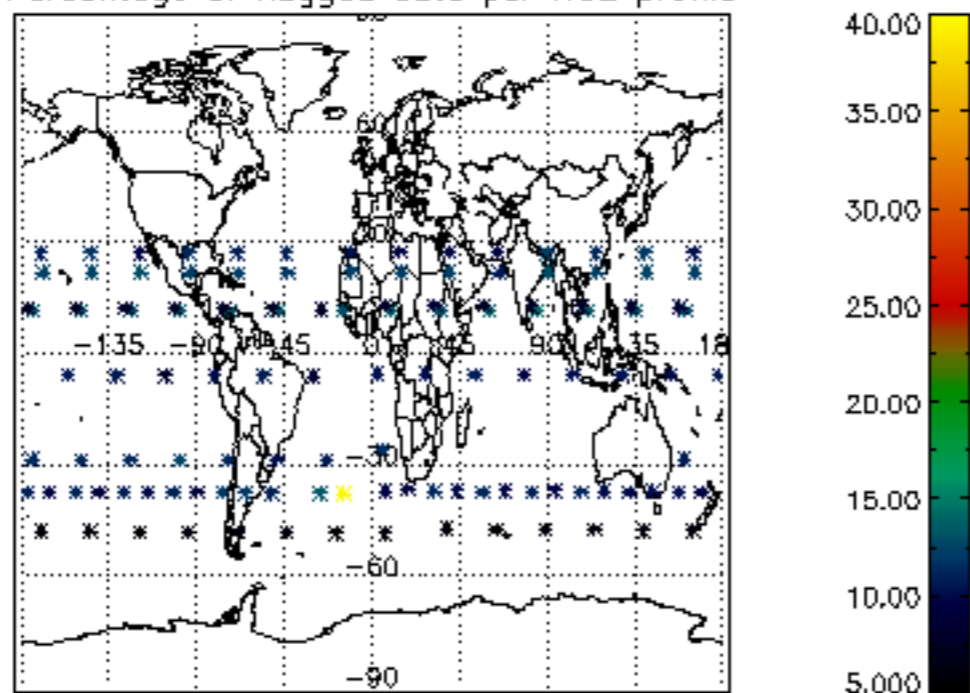
Percentage of flagged data per D3 profile



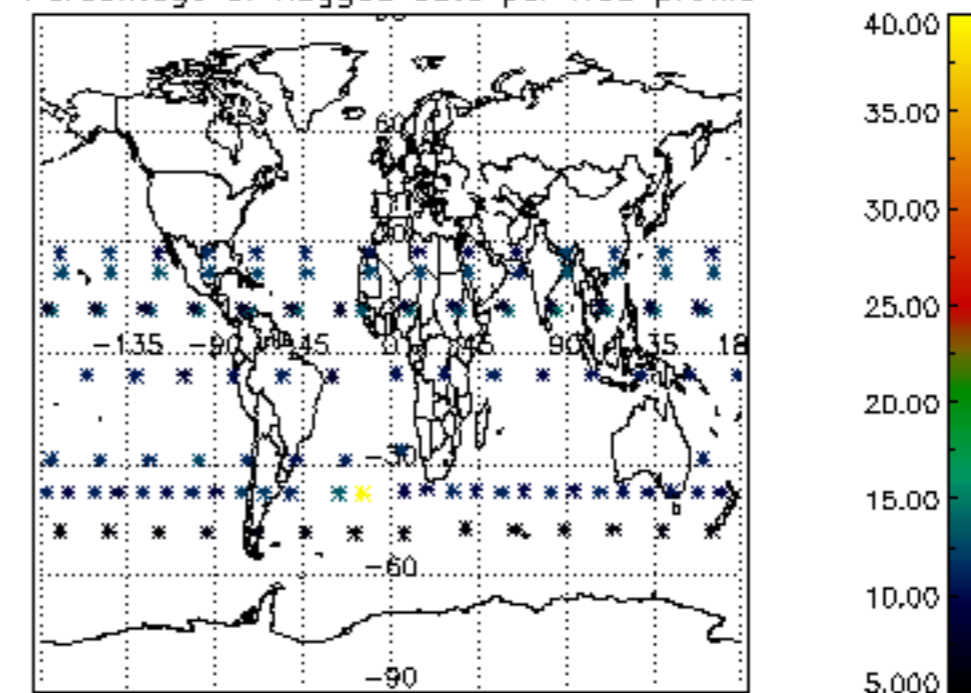
Percentage of flagged data per H2O profile

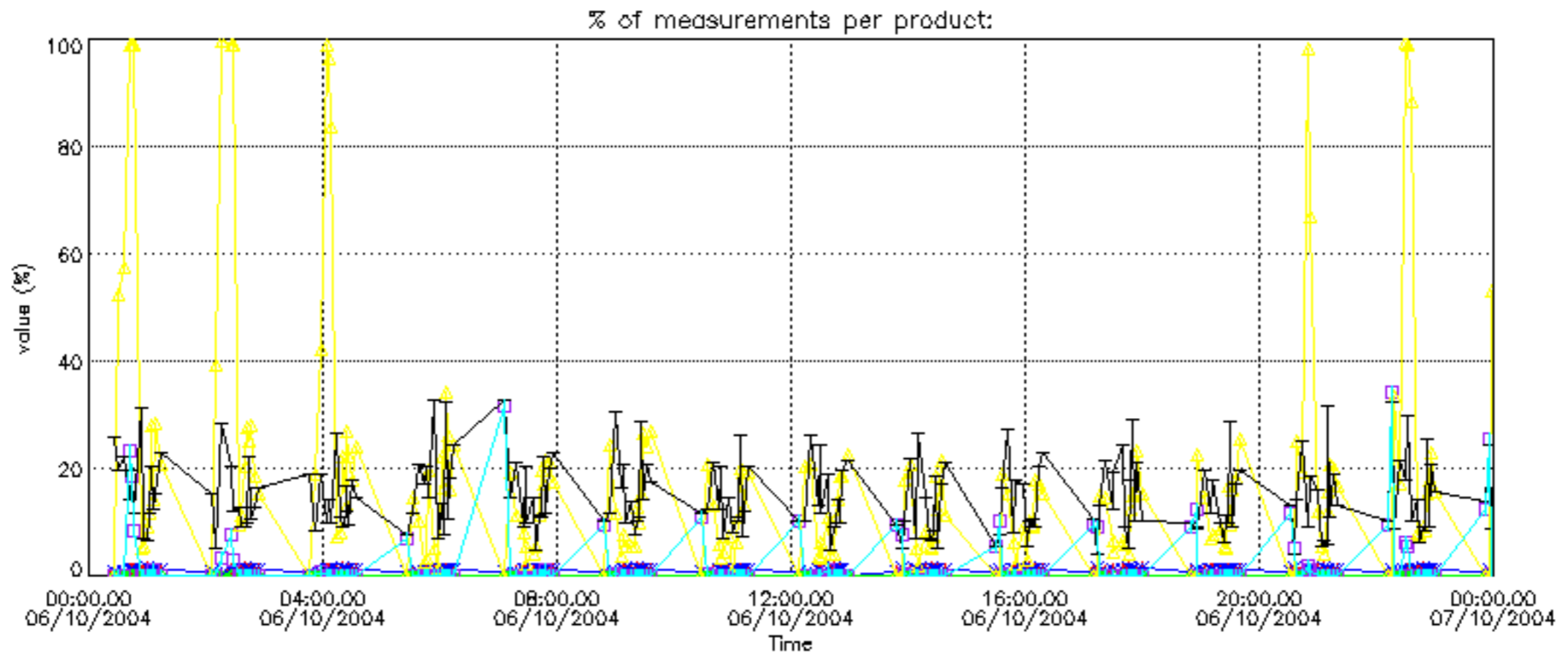


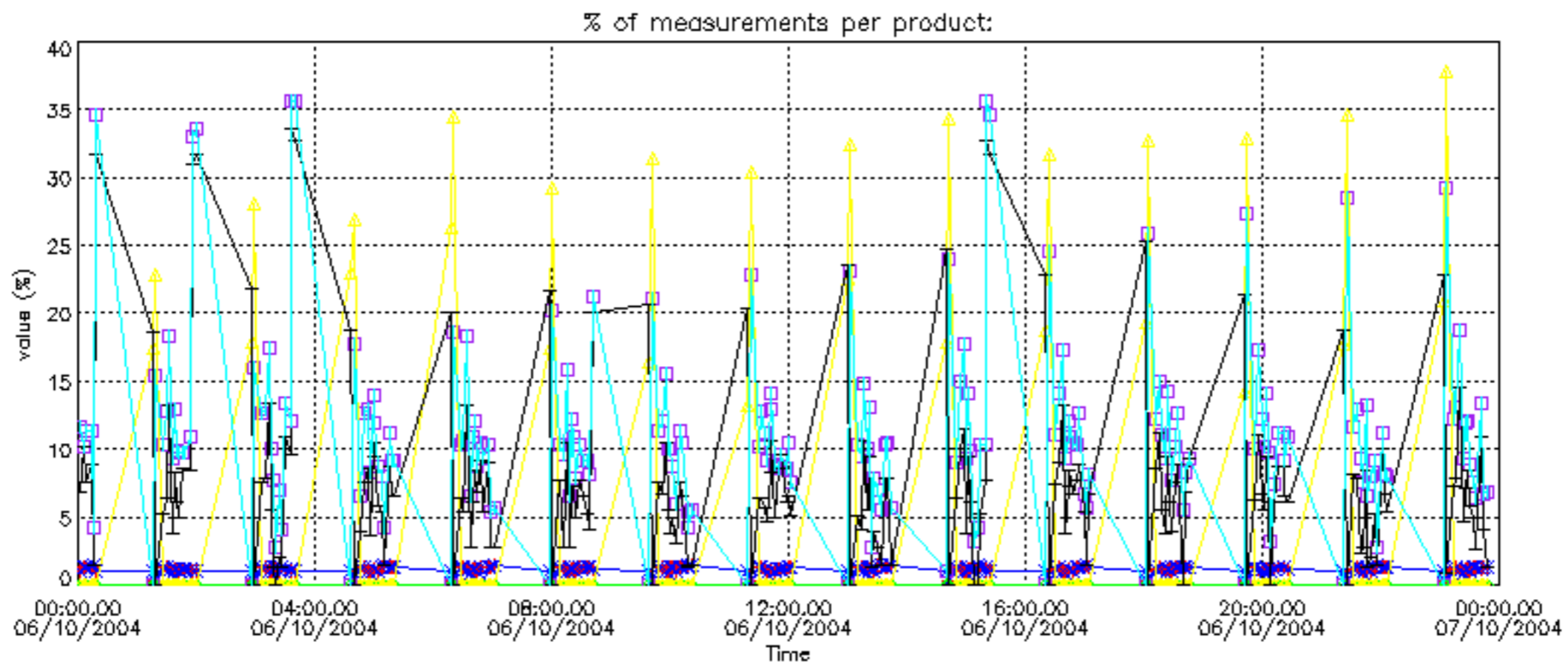
Percentage of flagged data per NO2 profile



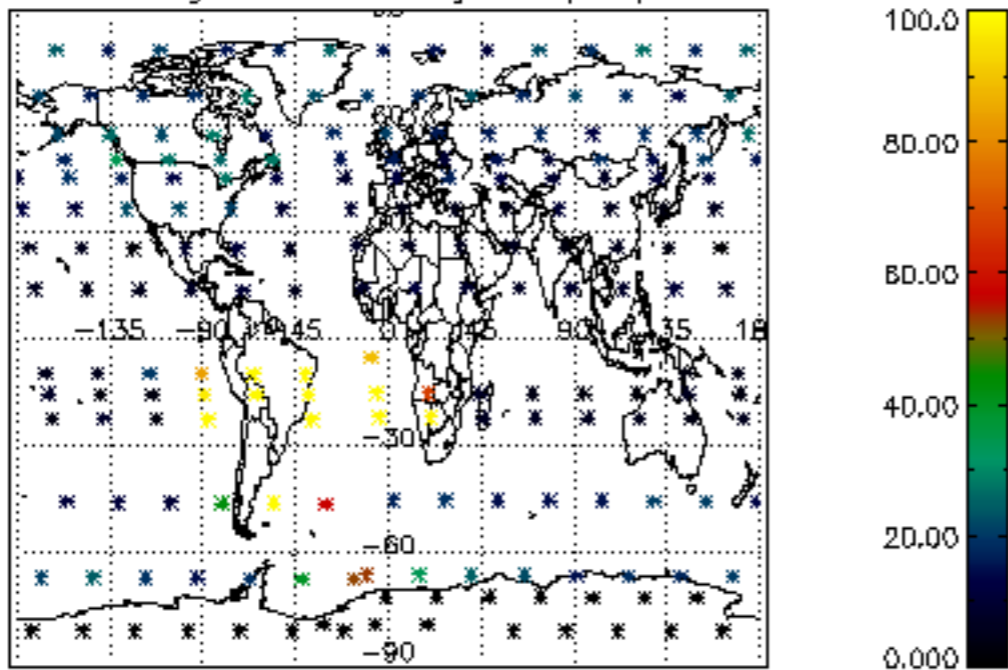
Percentage of flagged data per NO3 profile



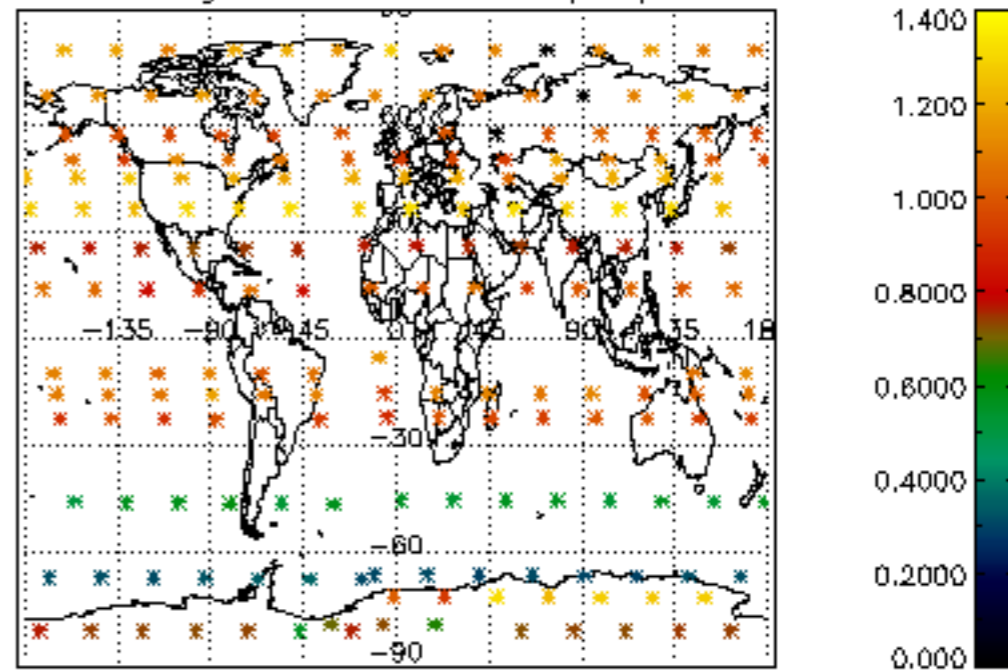




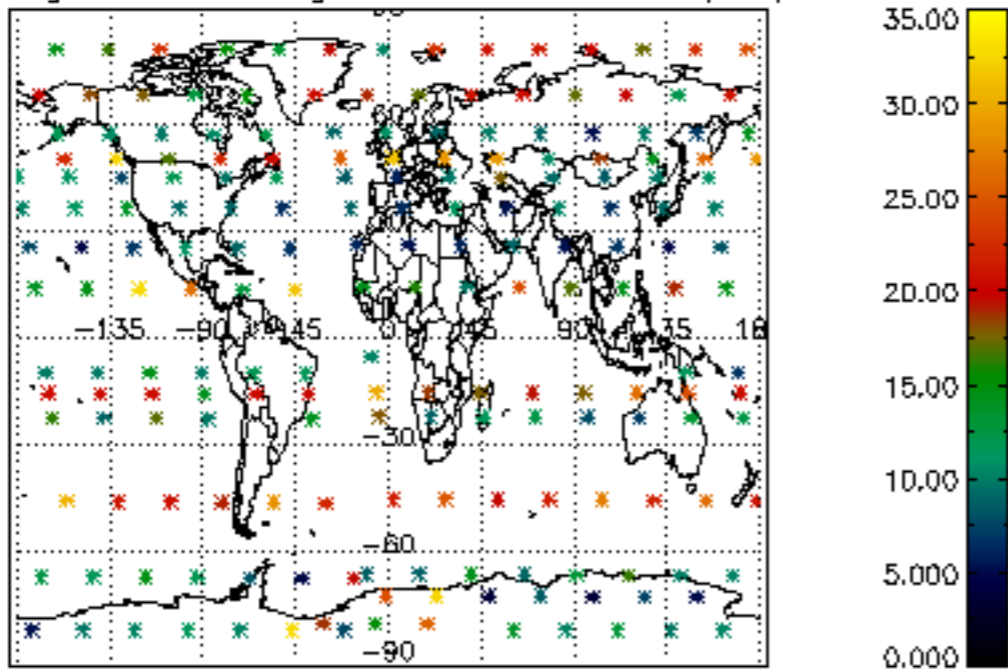
Percentage of cosmic ray hits per profile



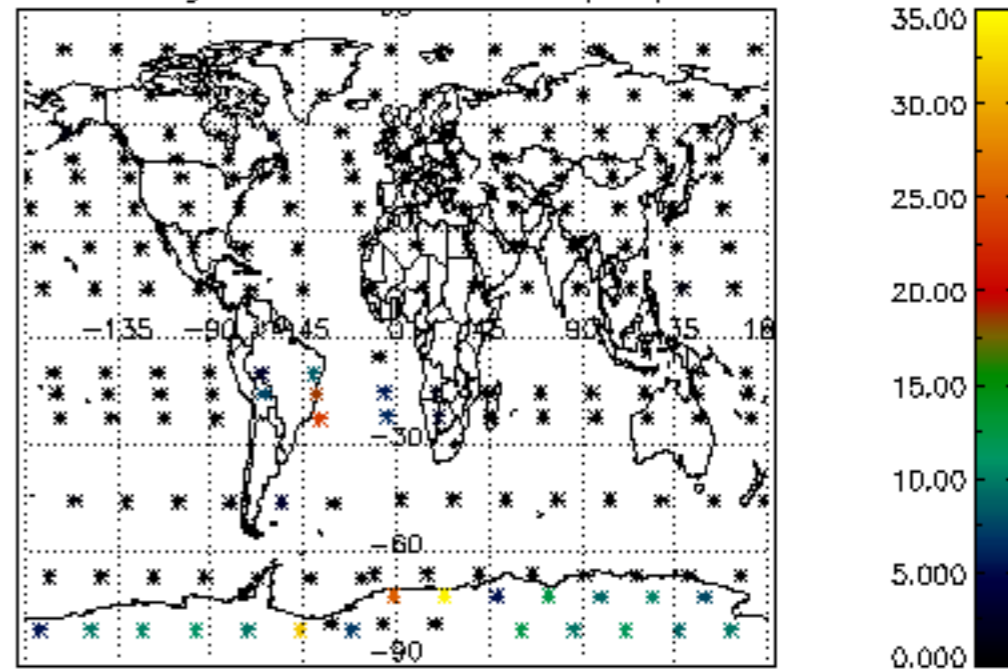
Percentage of datation errors per profile



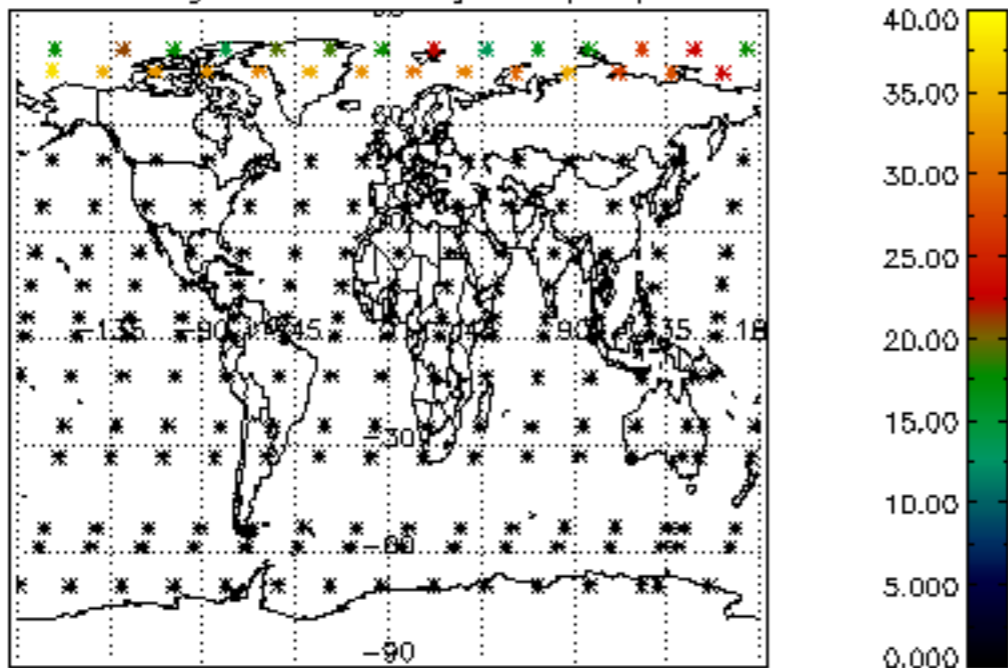
Percentage of star falling outside central band per profile



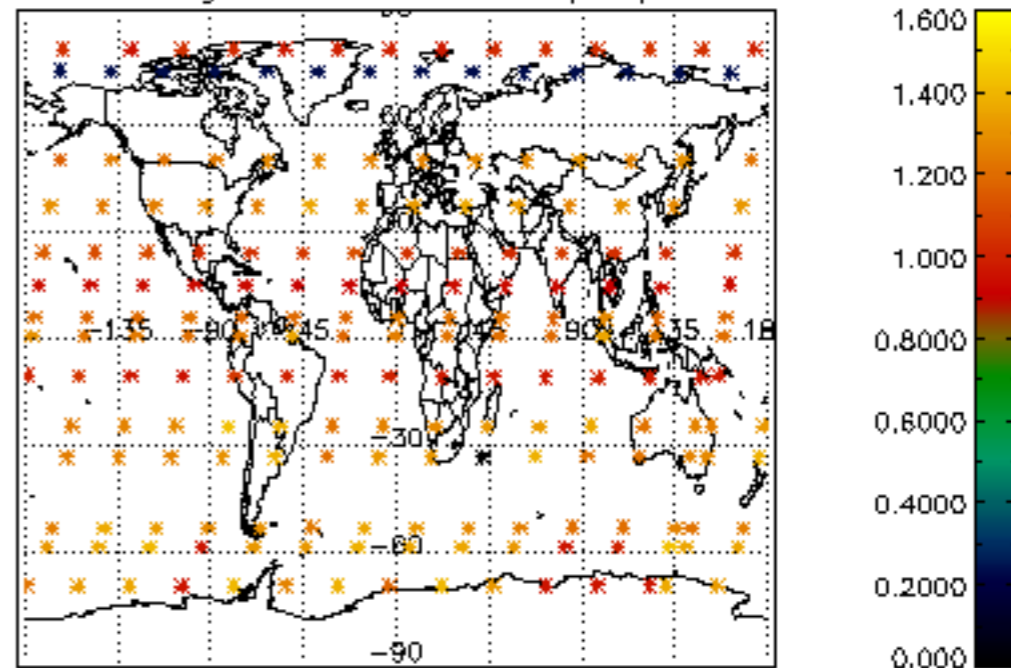
Percentage of saturation errors per profile



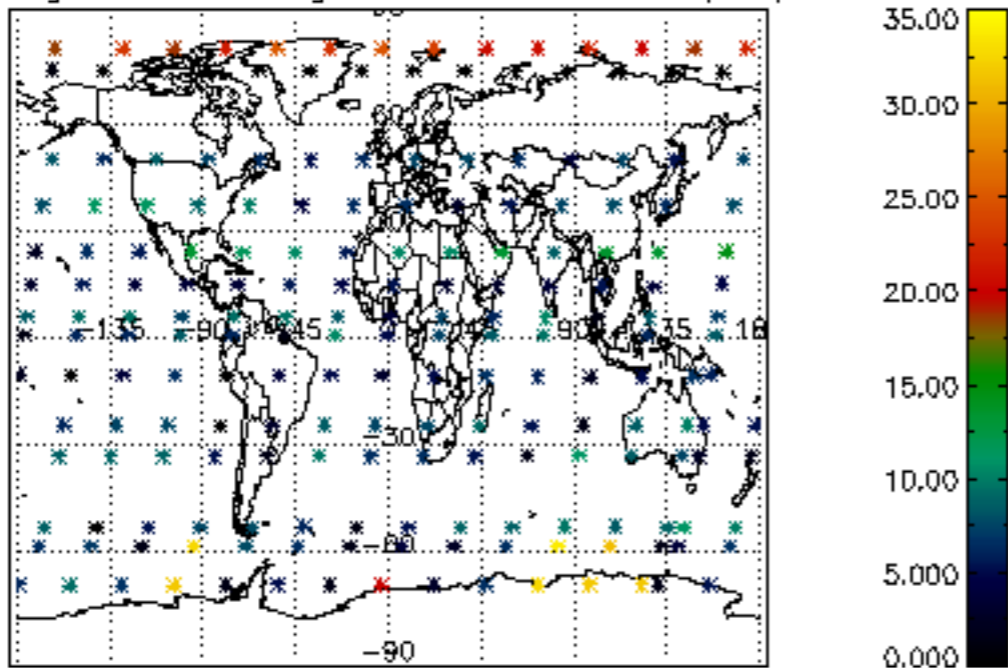
Percentage of cosmic ray hits per profile



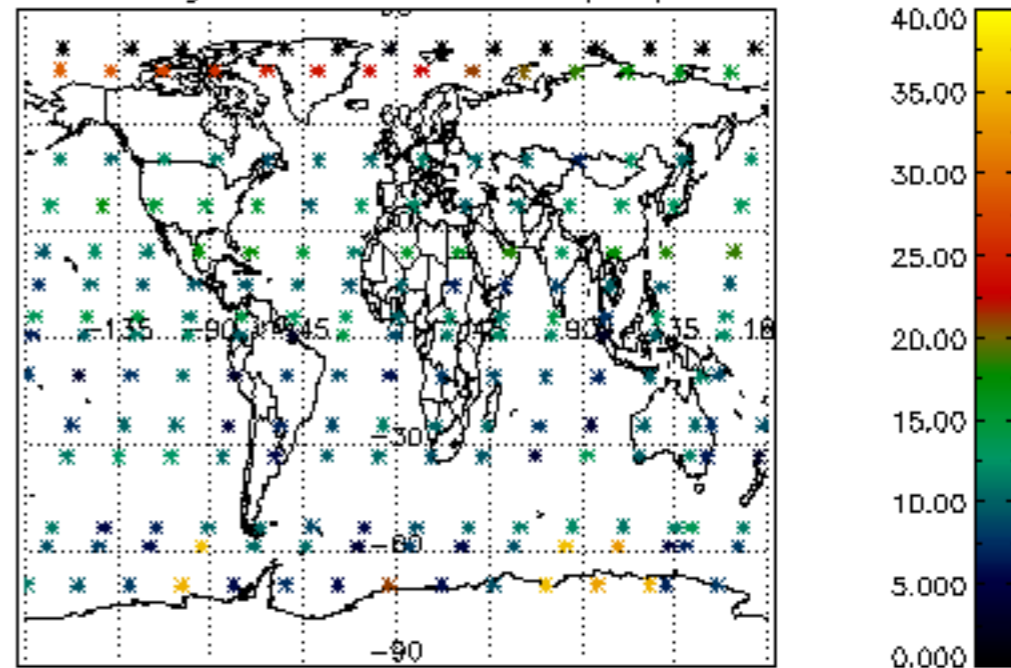
Percentage of datation errors per profile



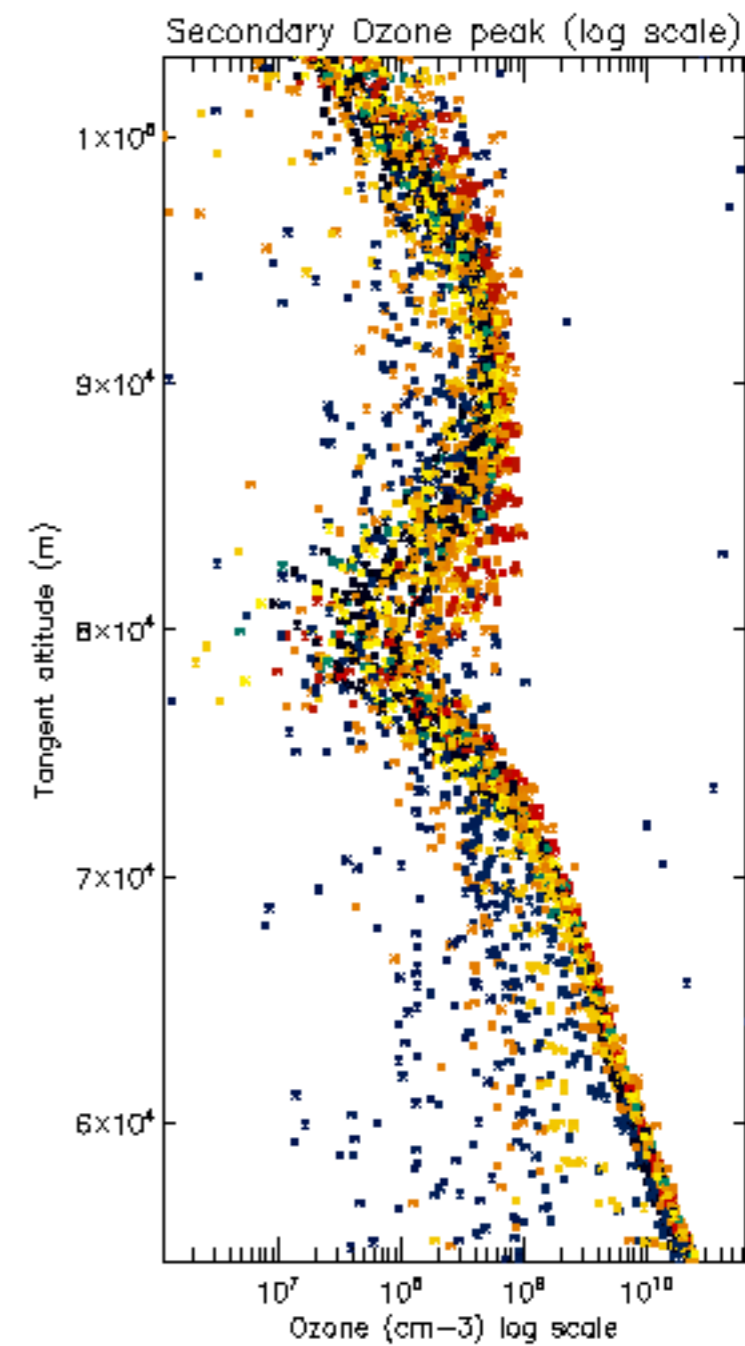
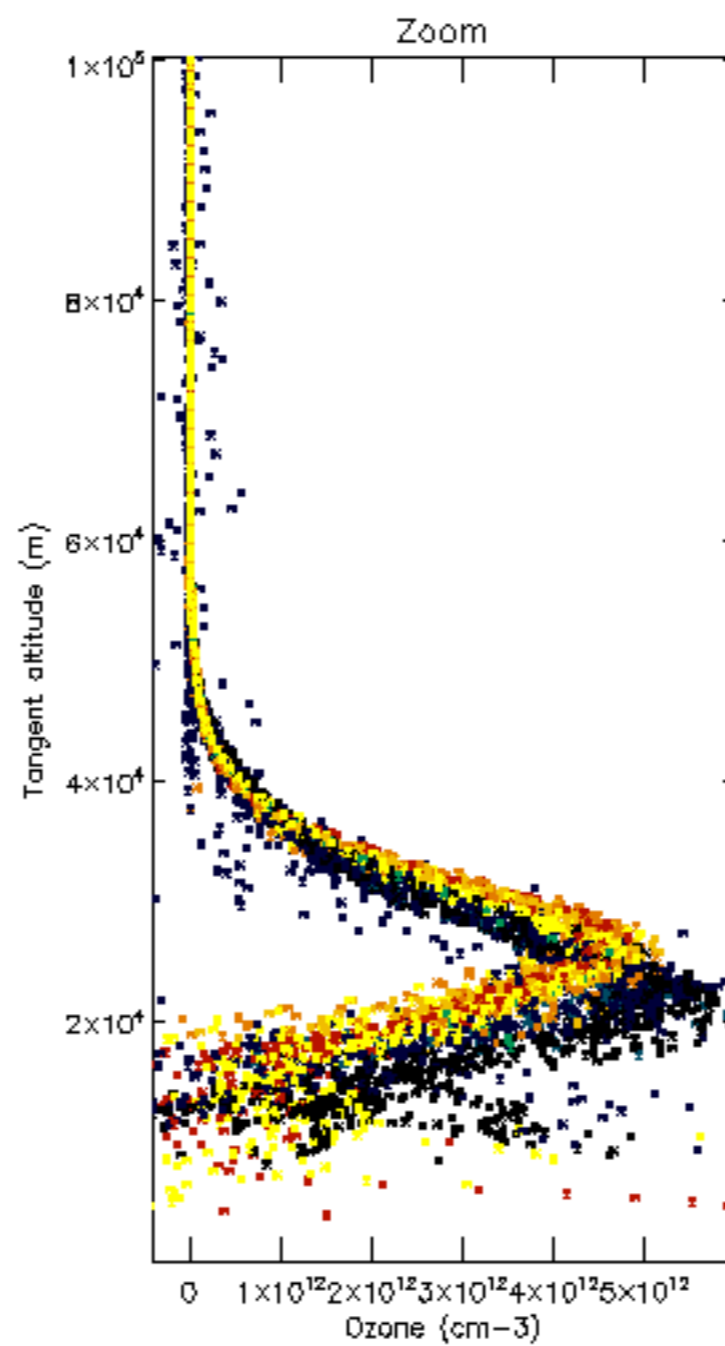
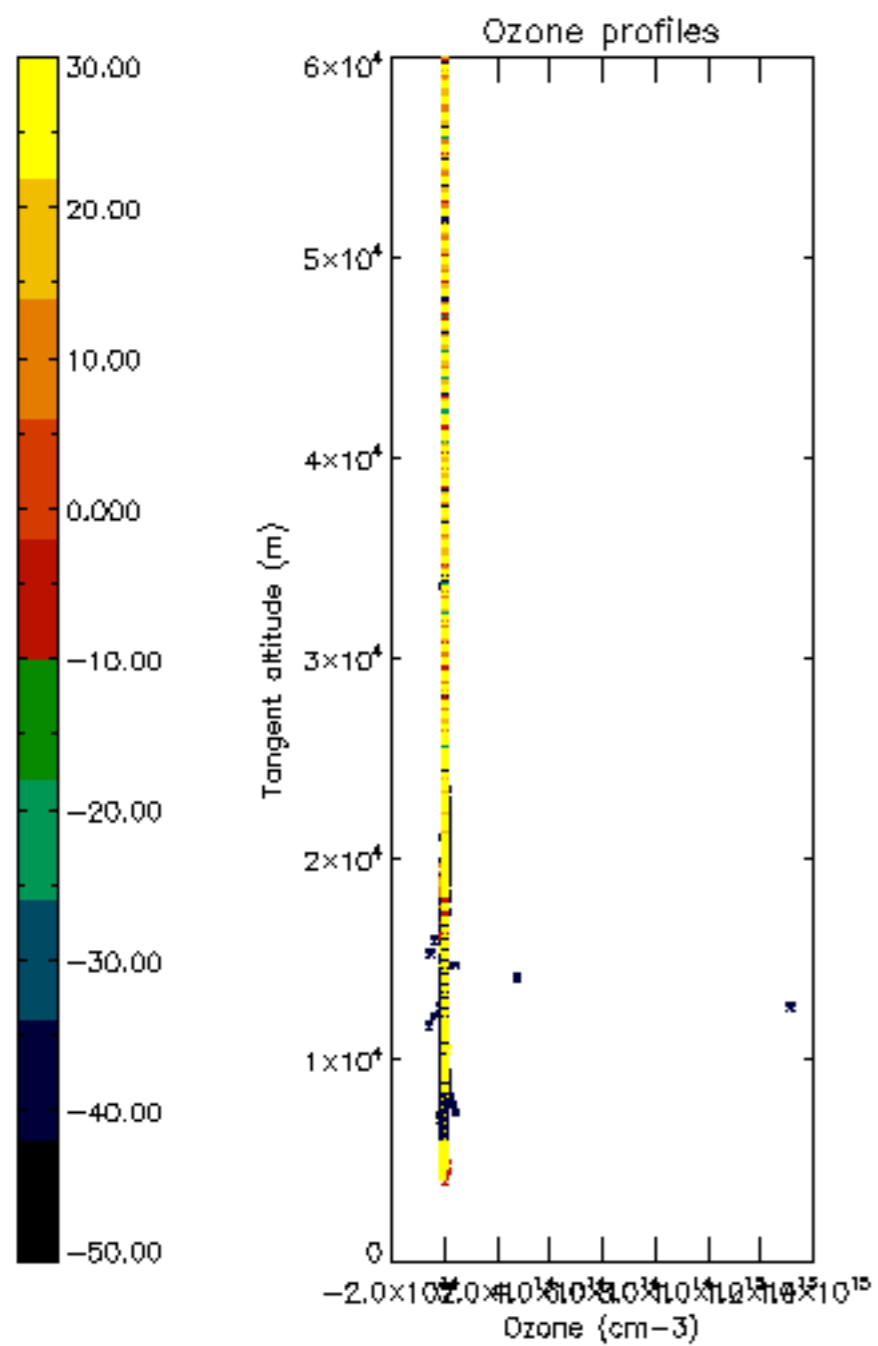
Percentage of star falling outside central band per profile

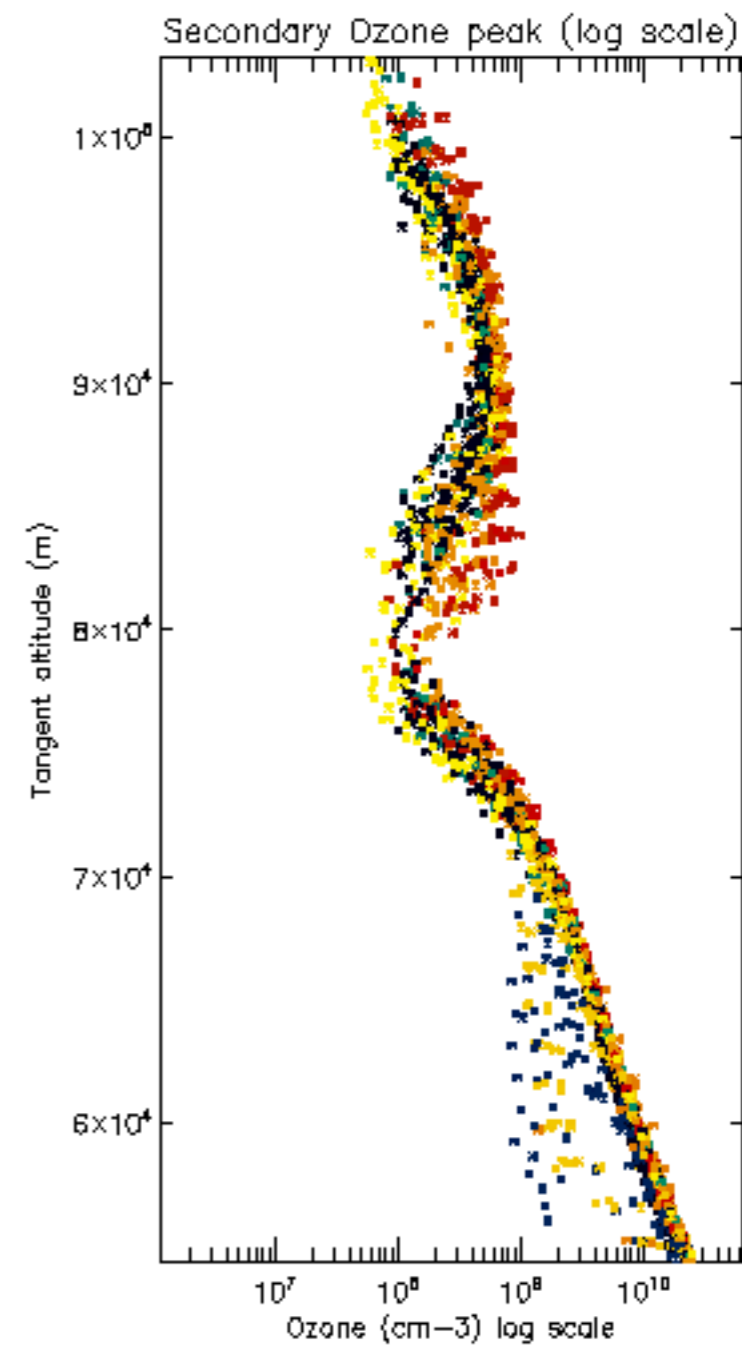
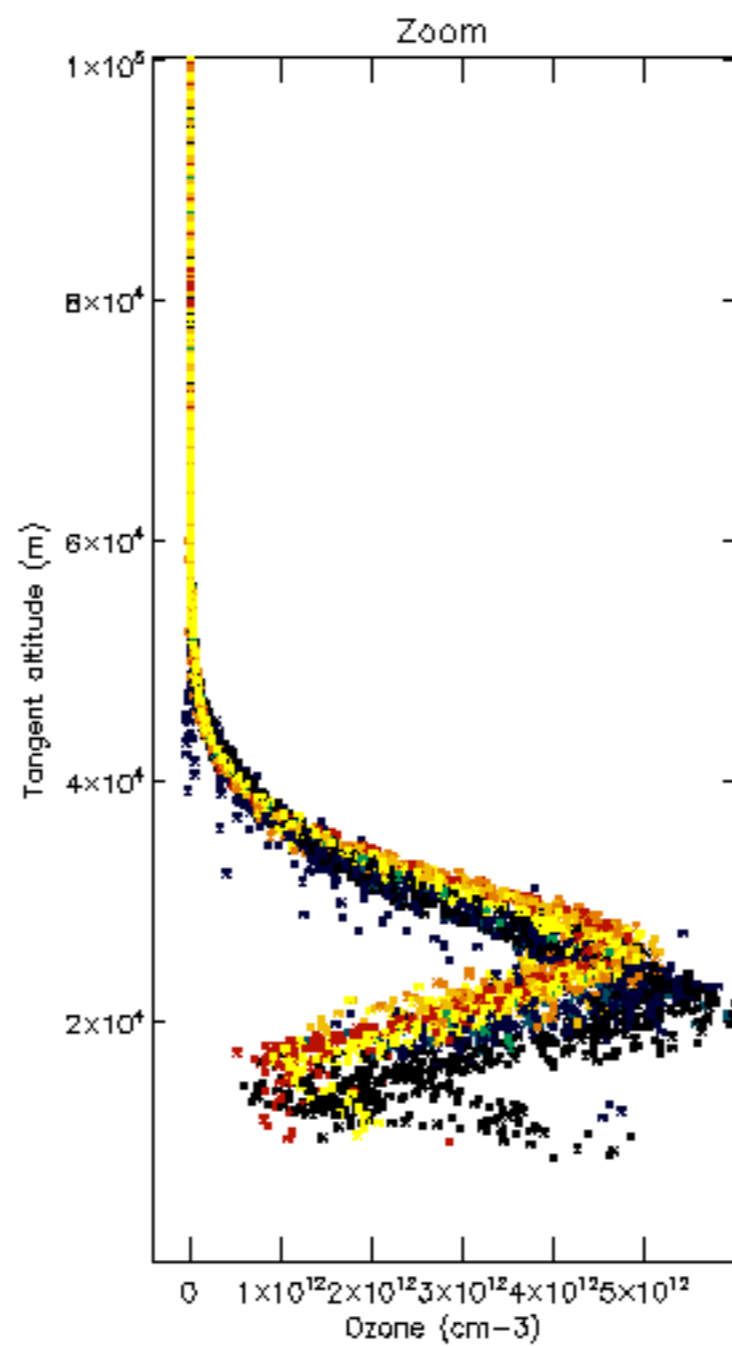
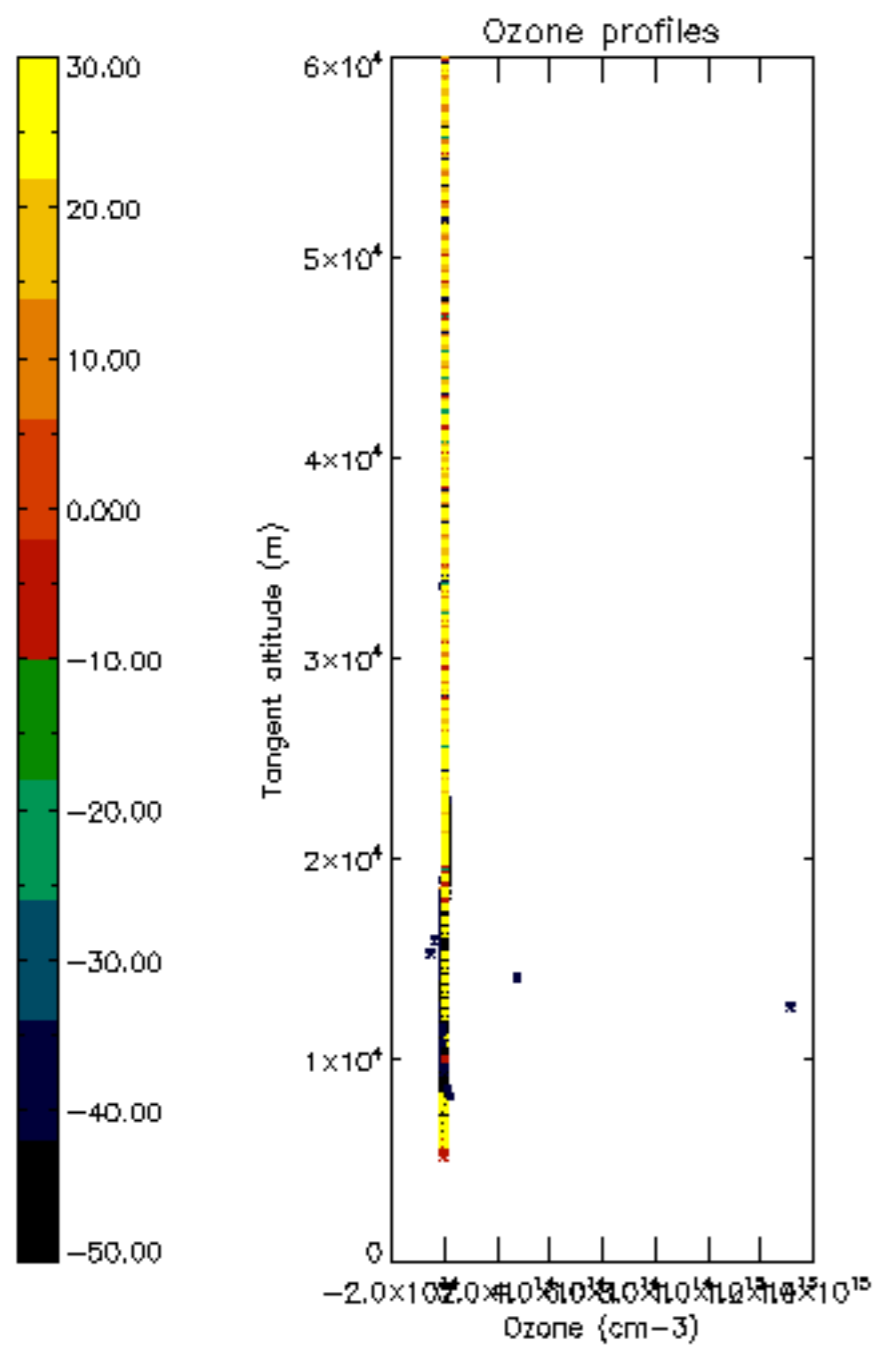


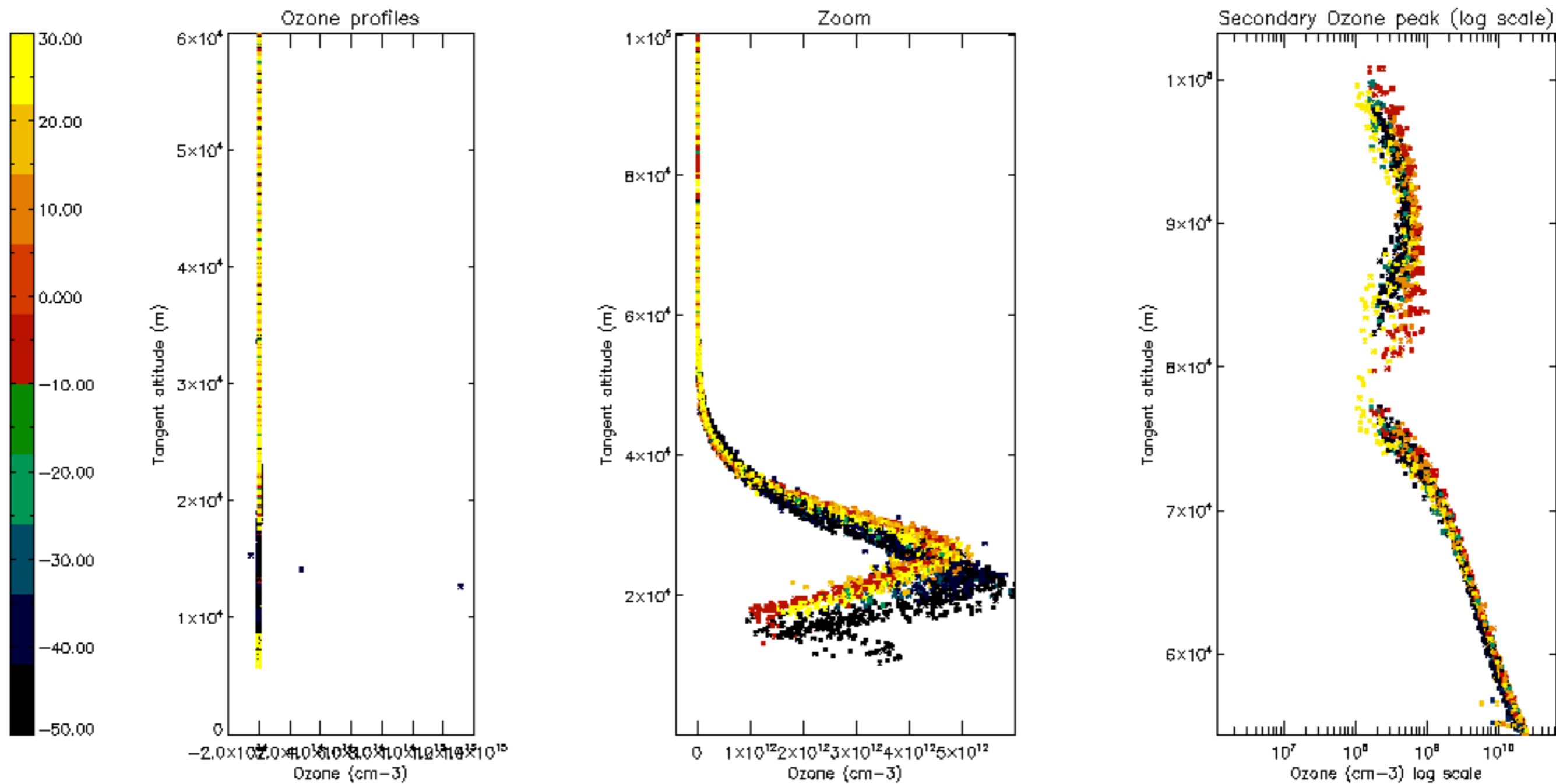
Percentage of saturation errors per profile

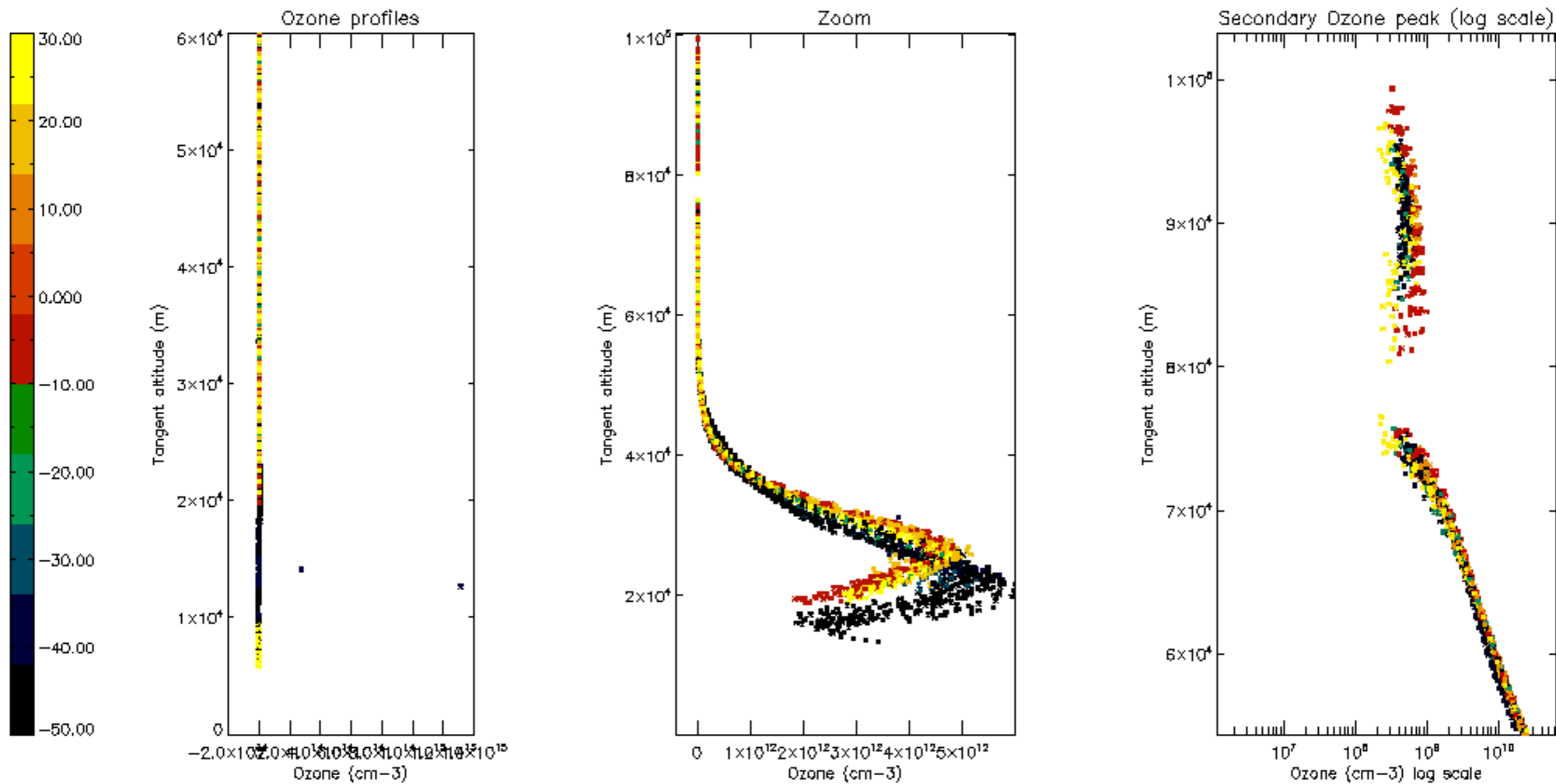


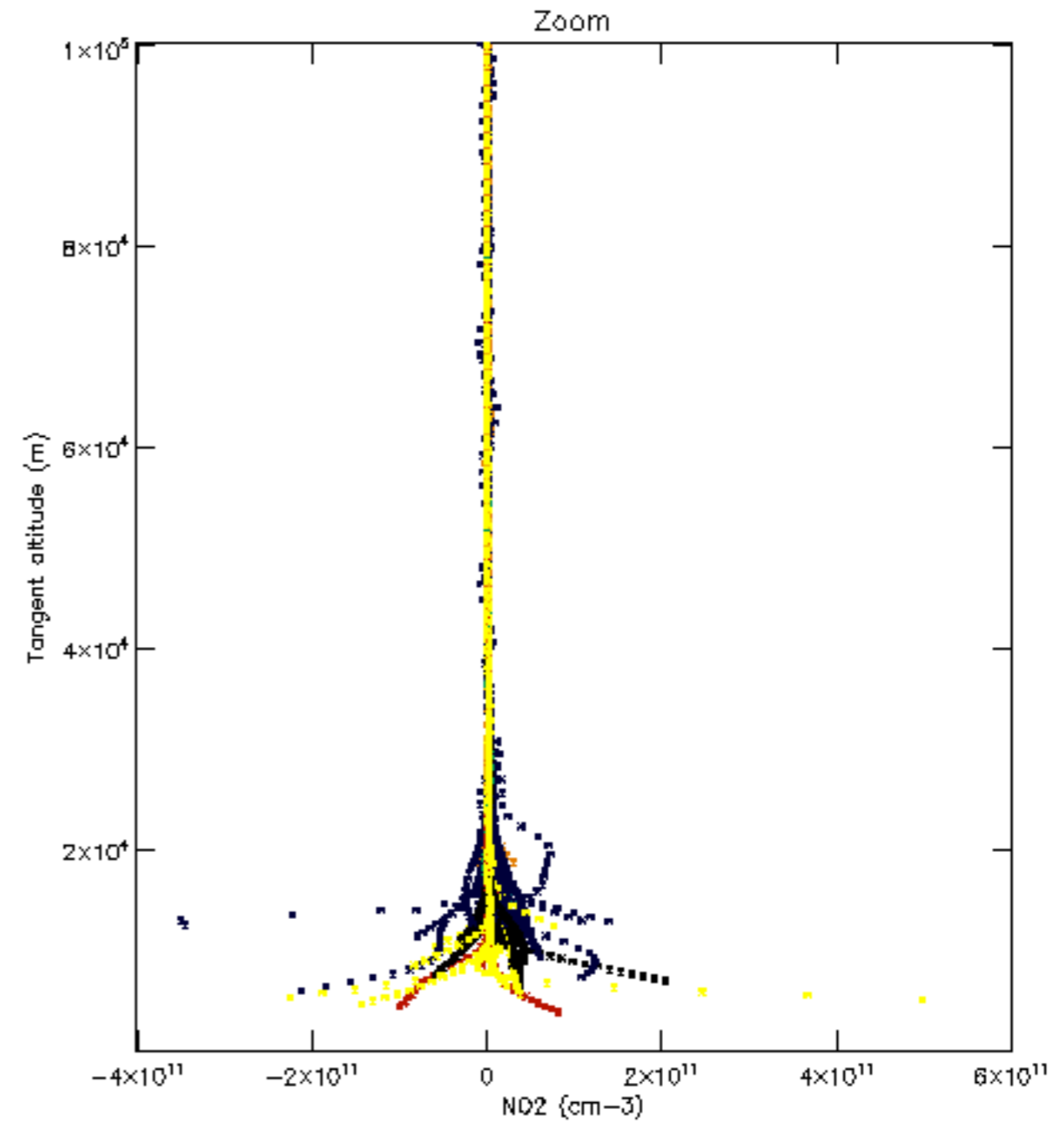
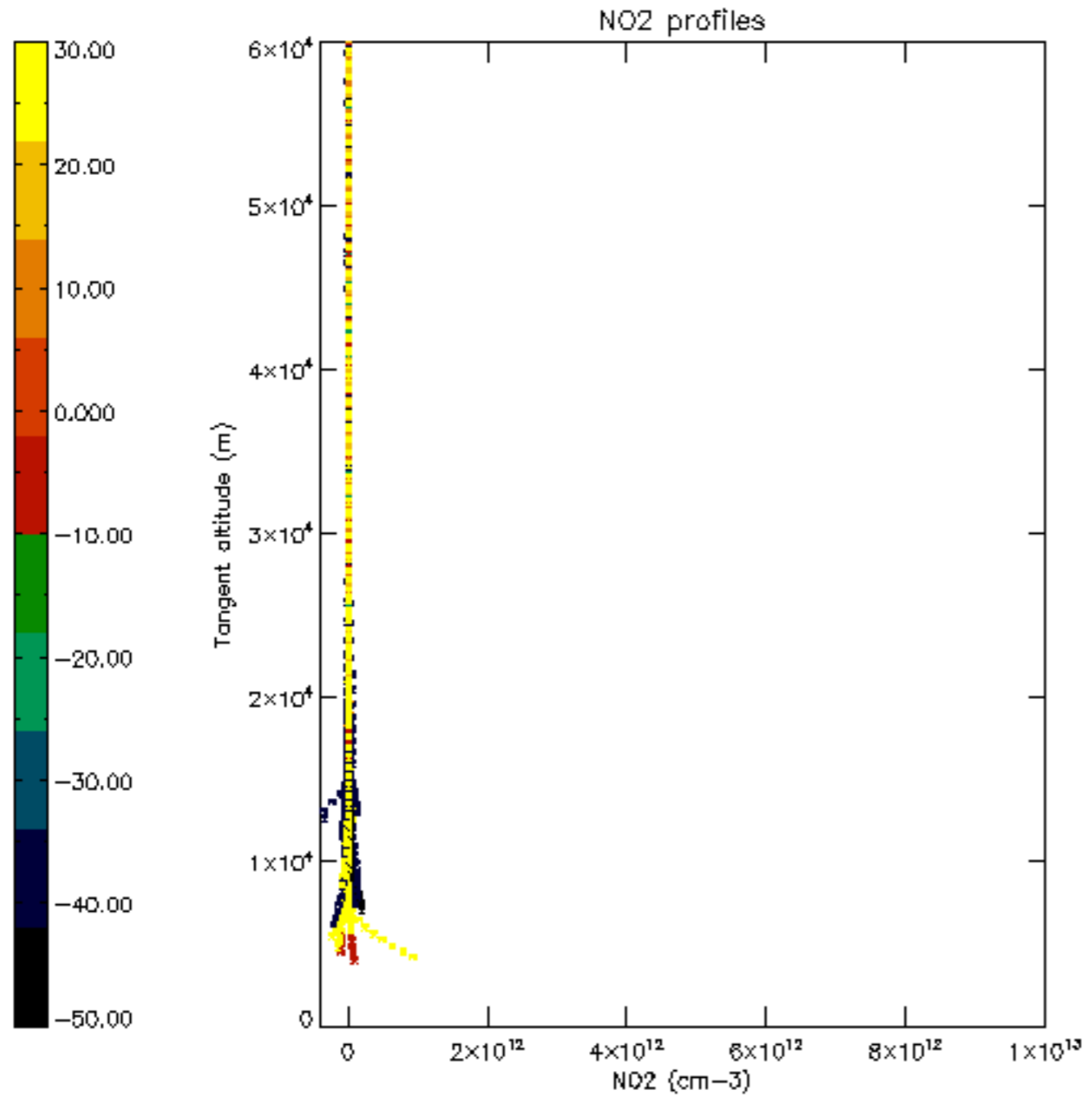


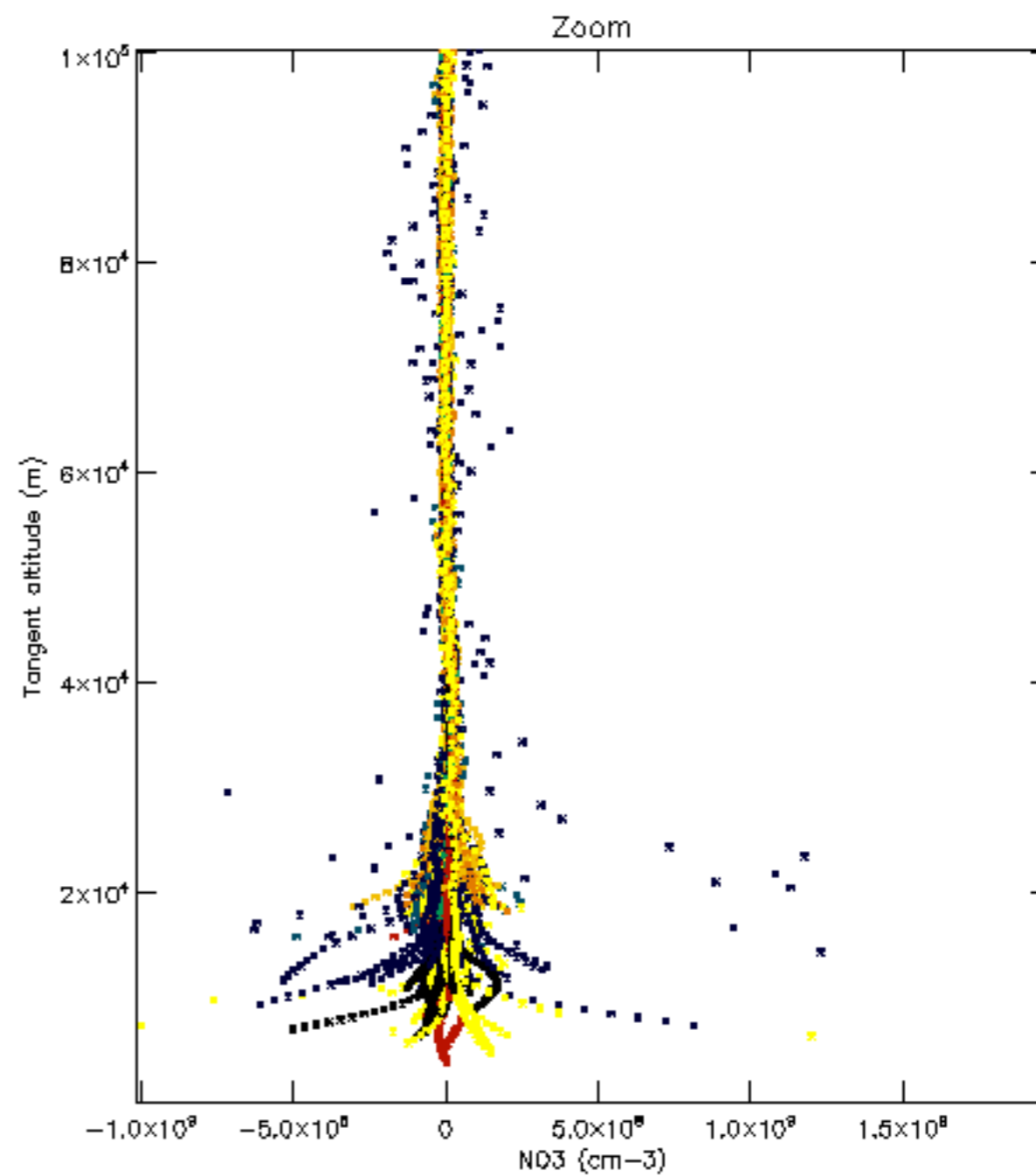
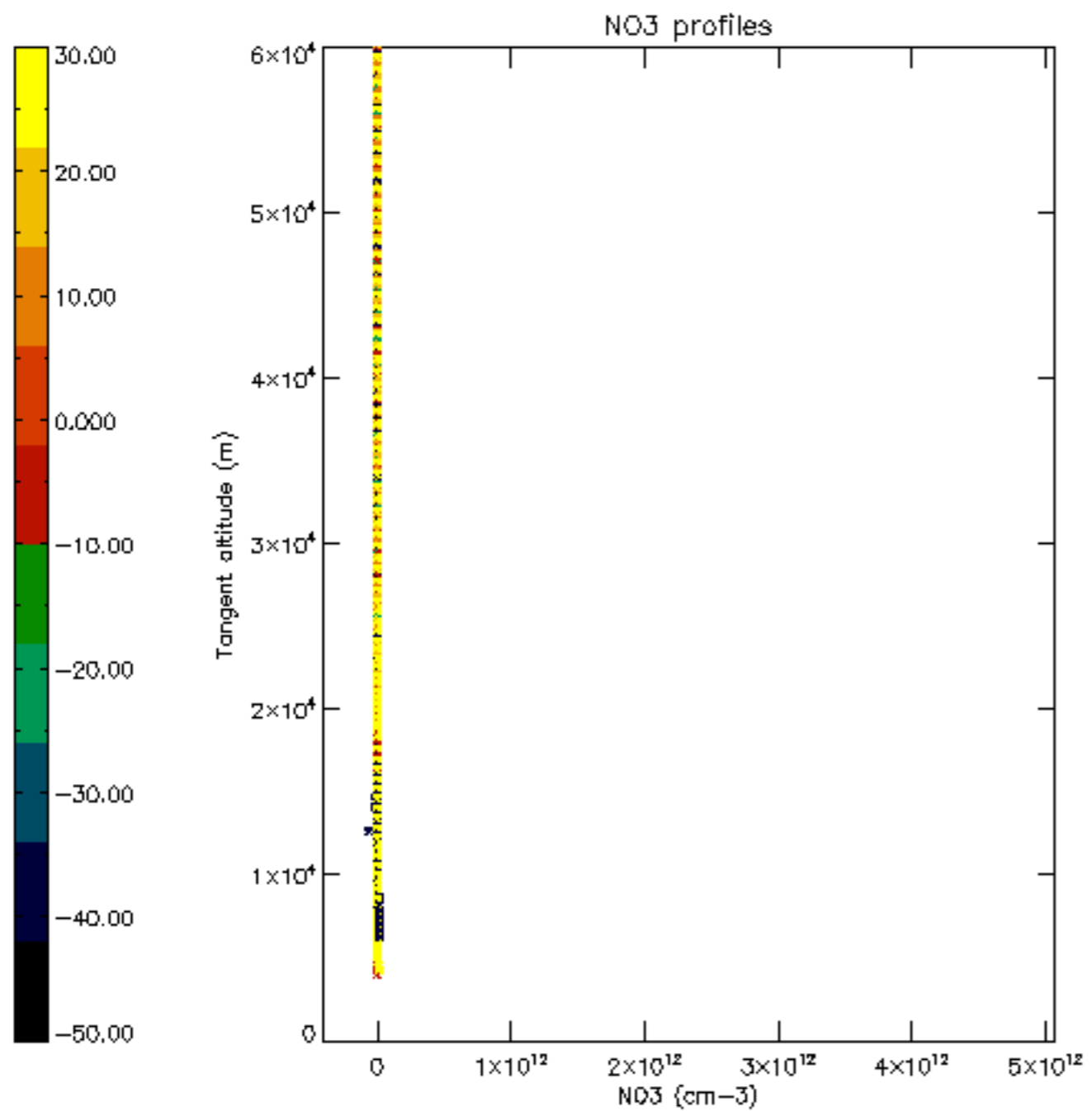


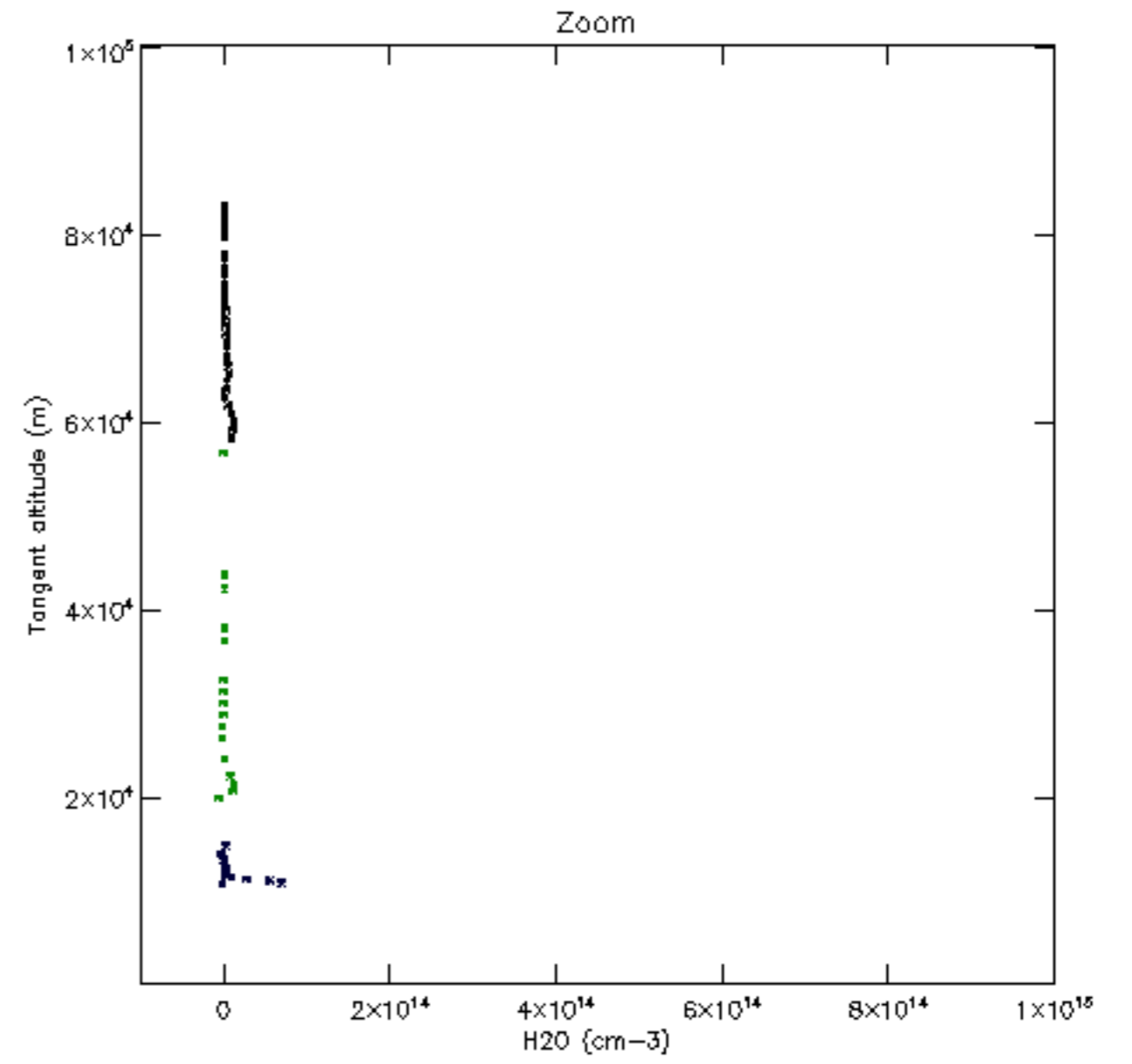
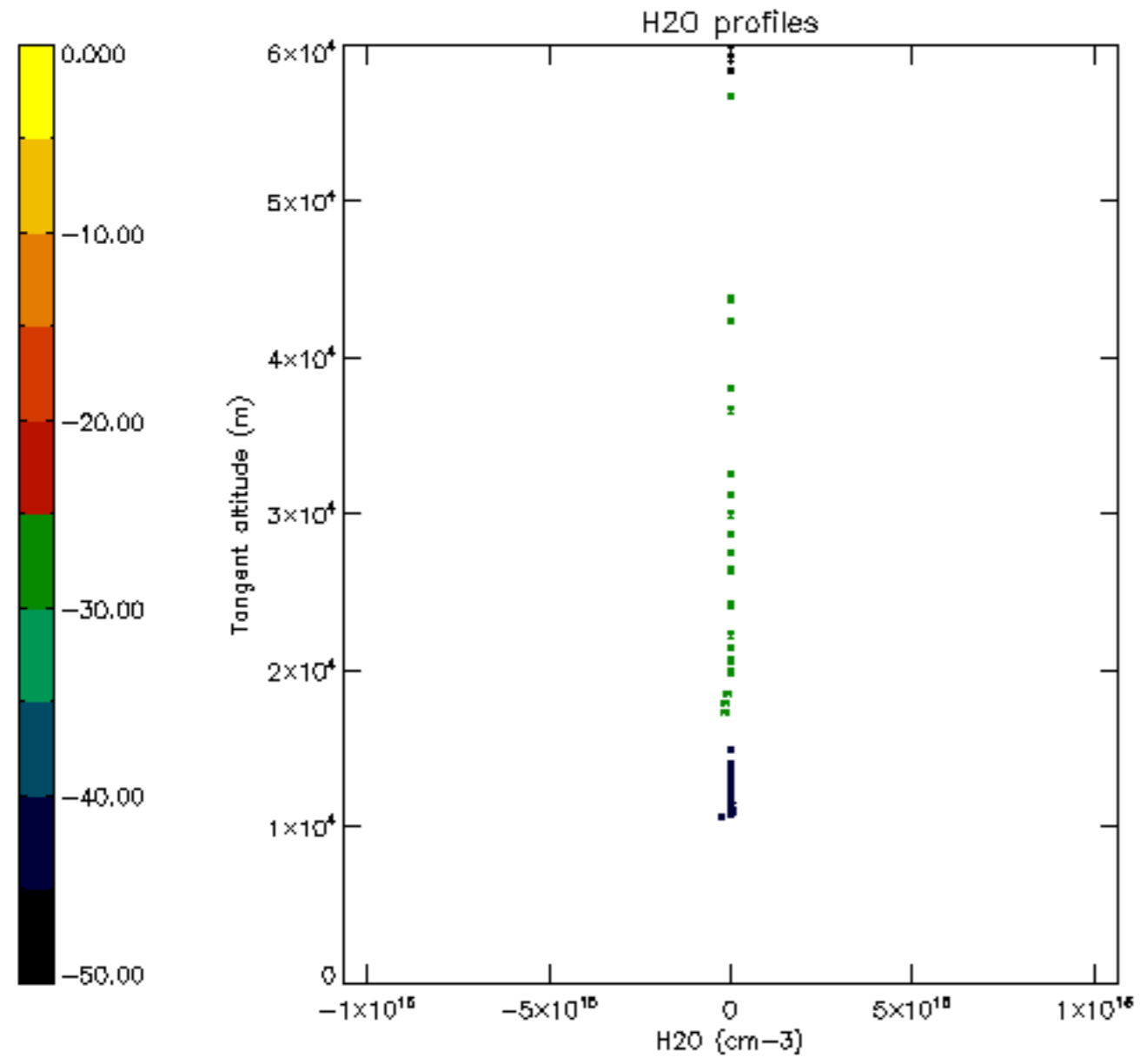


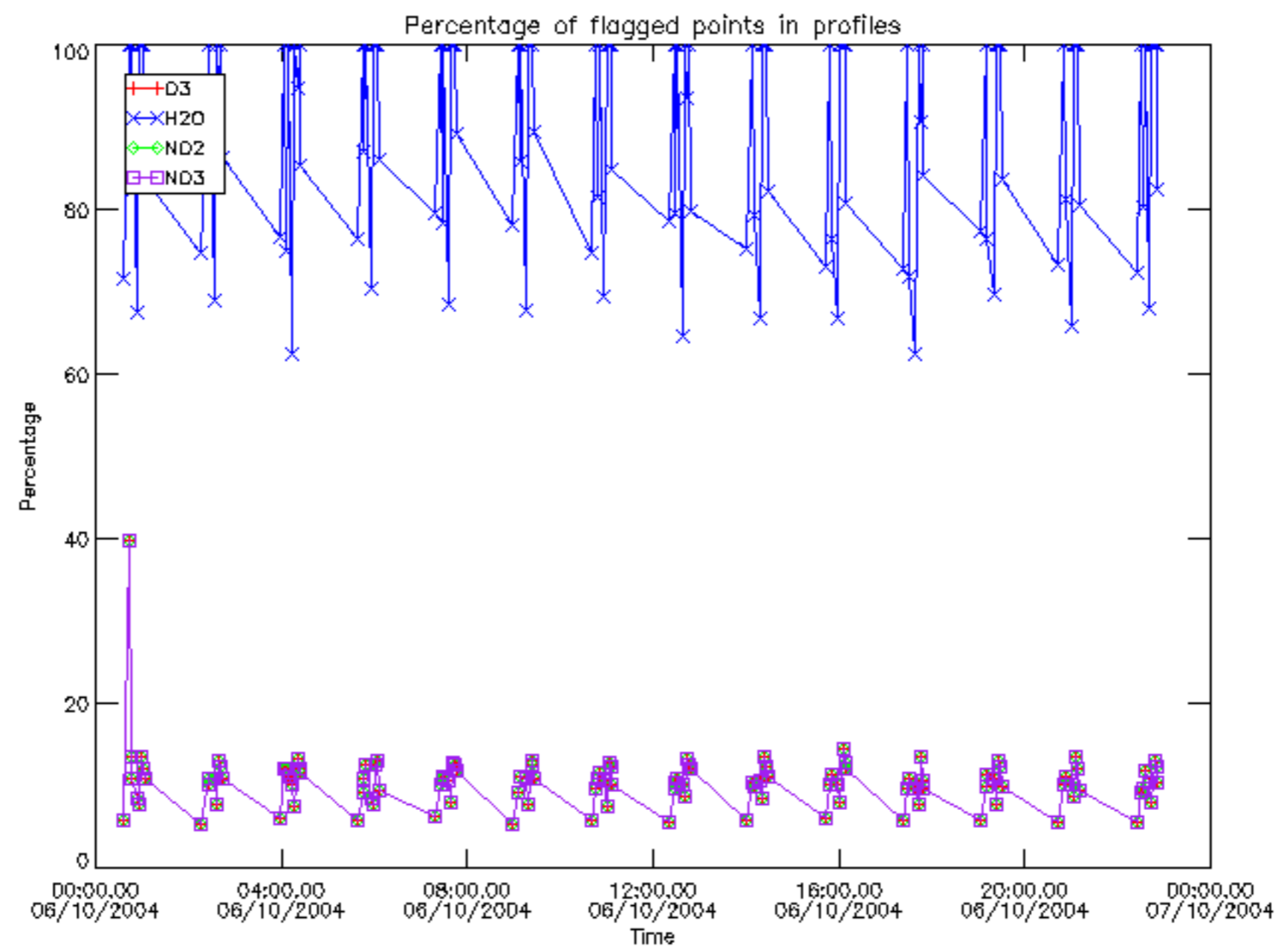






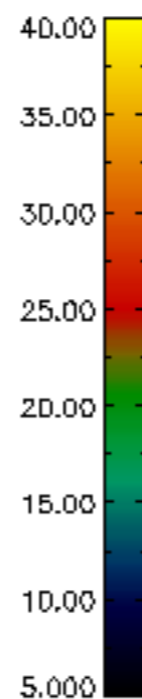
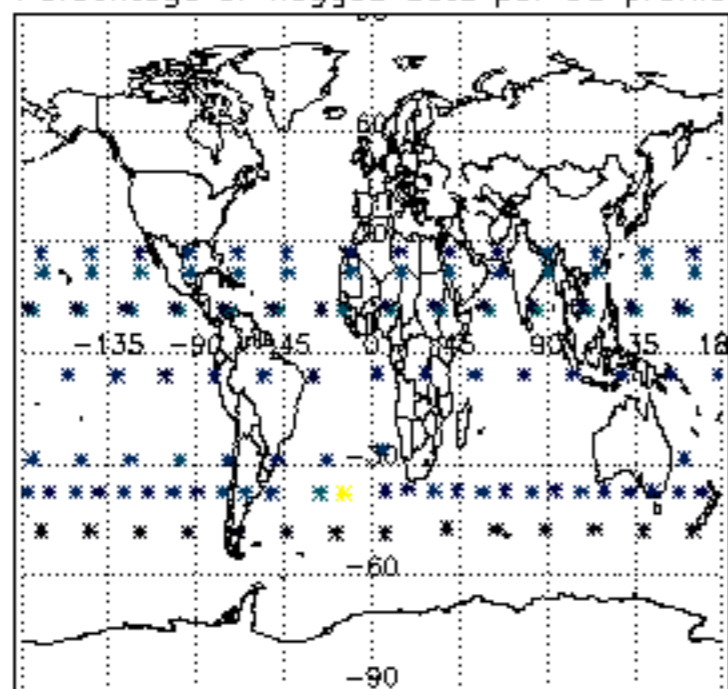




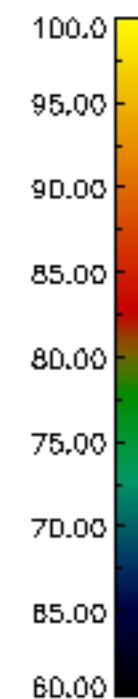
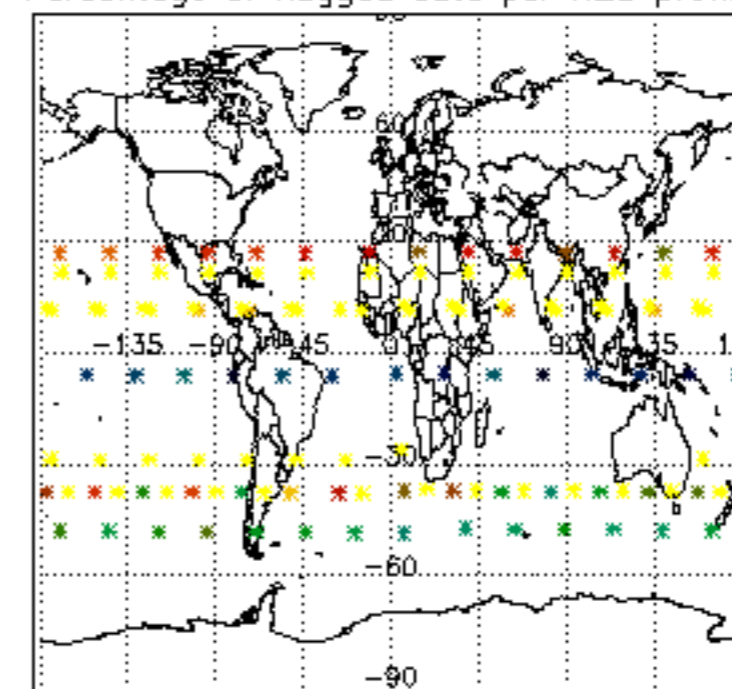




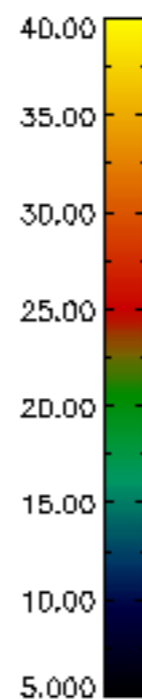
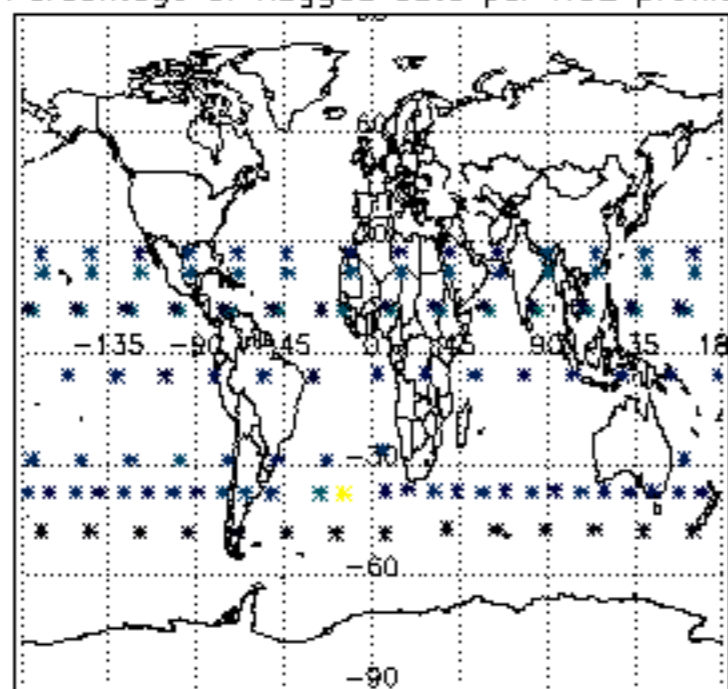
Percentage of flagged data per D3 profile



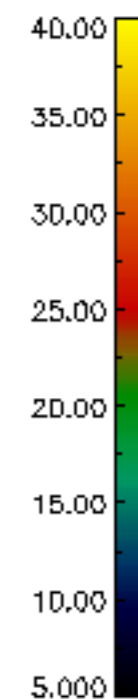
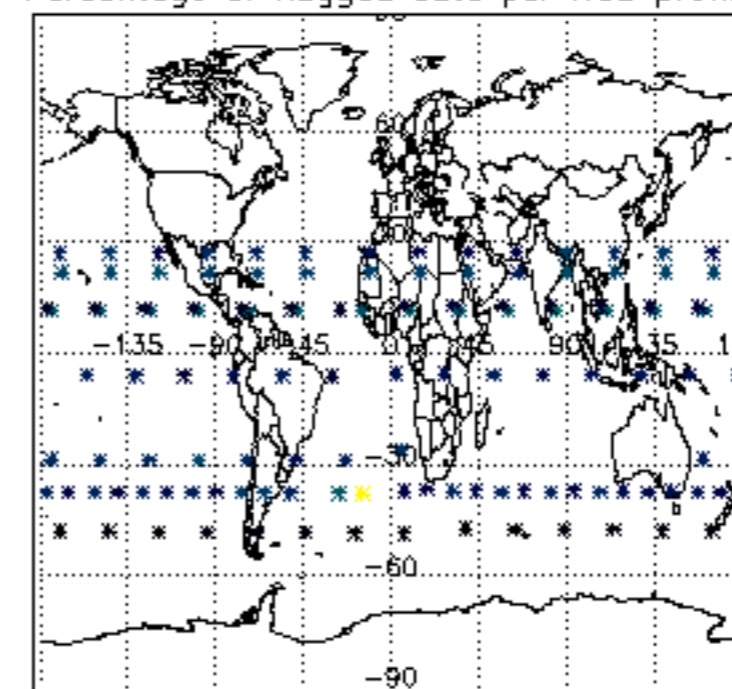
Percentage of flagged data per H2O profile

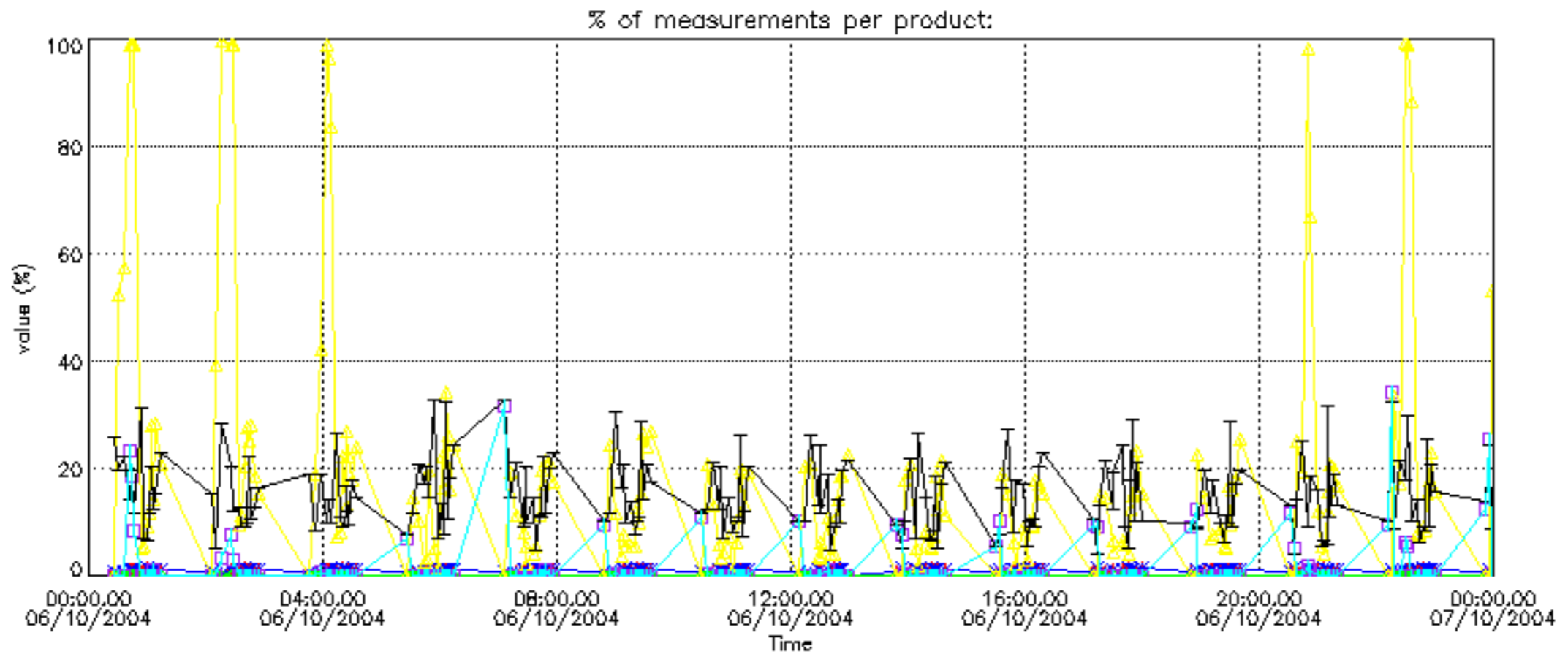


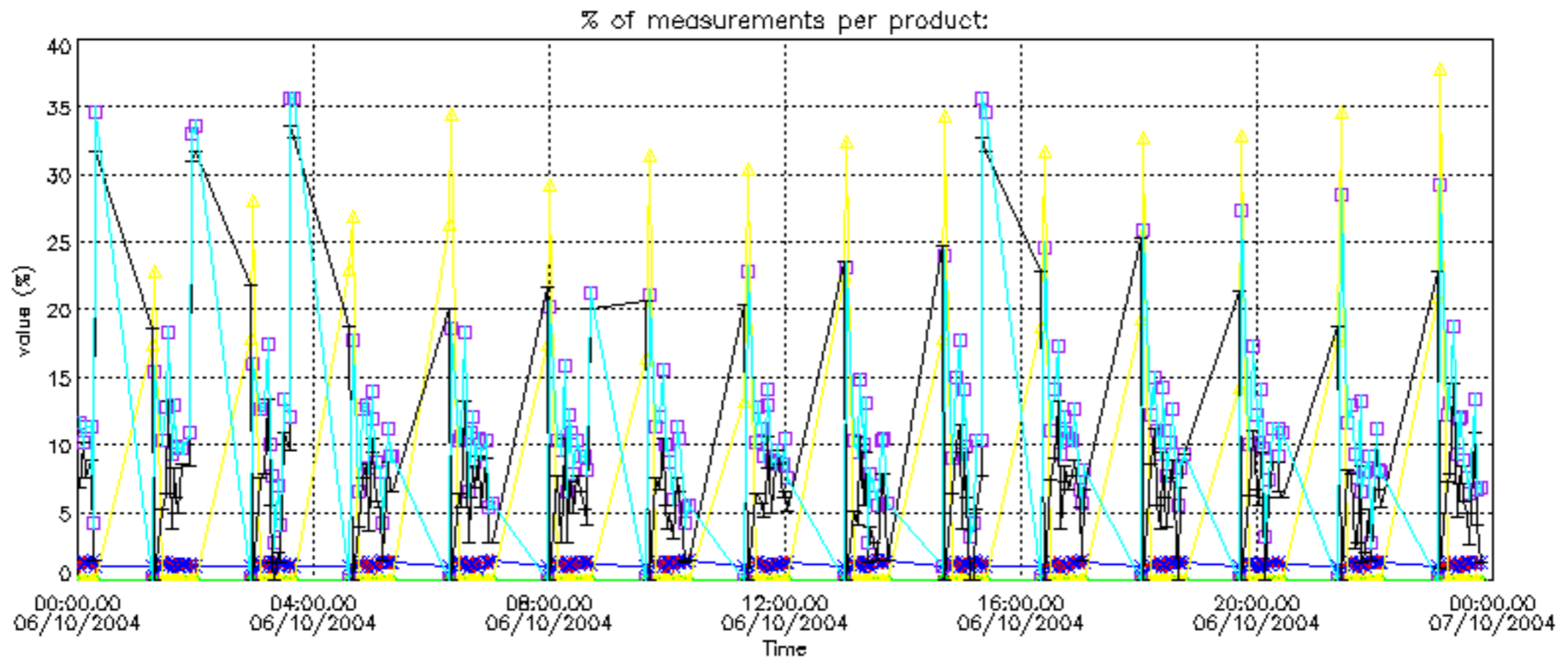
Percentage of flagged data per NO2 profile



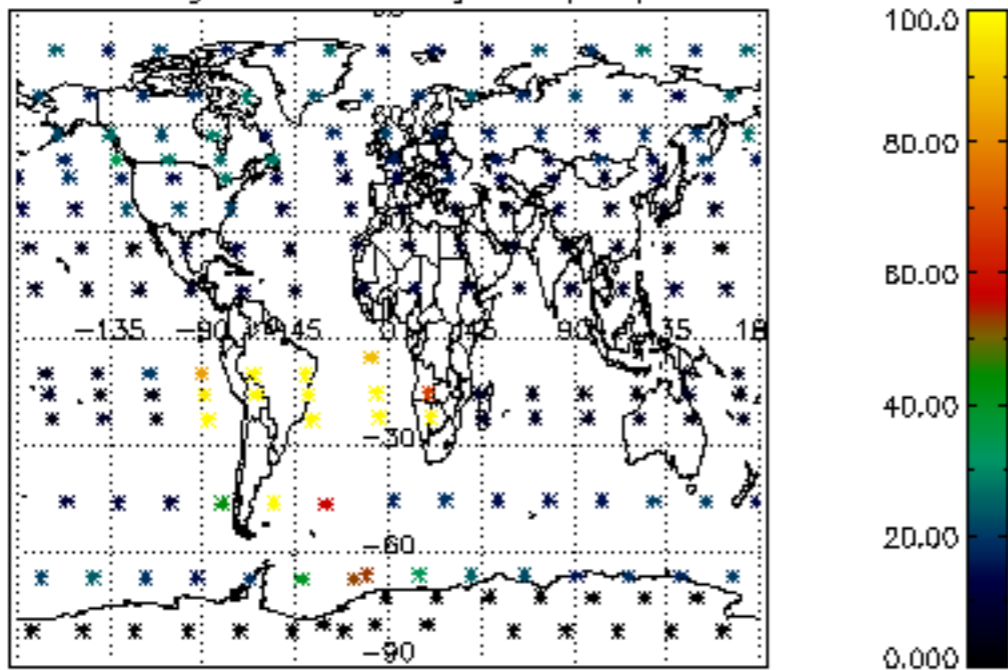
Percentage of flagged data per NO3 profile



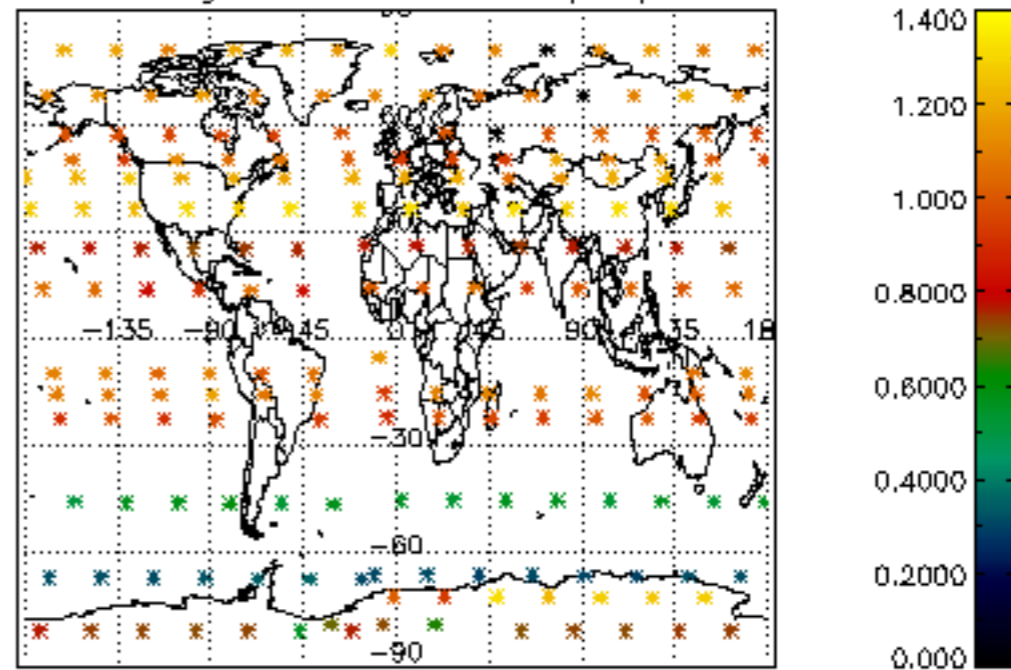




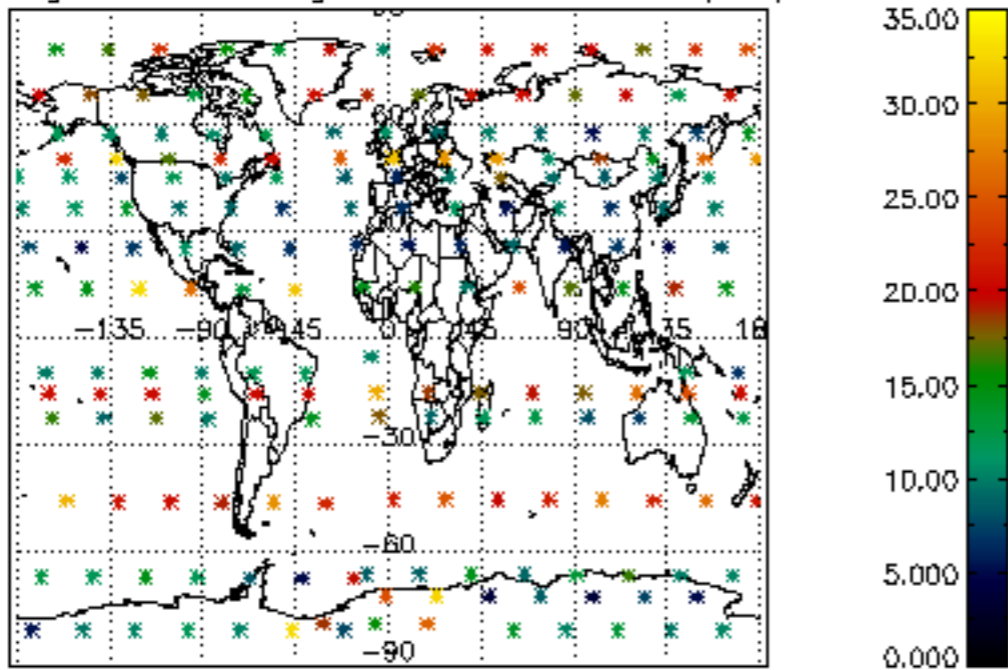
Percentage of cosmic ray hits per profile



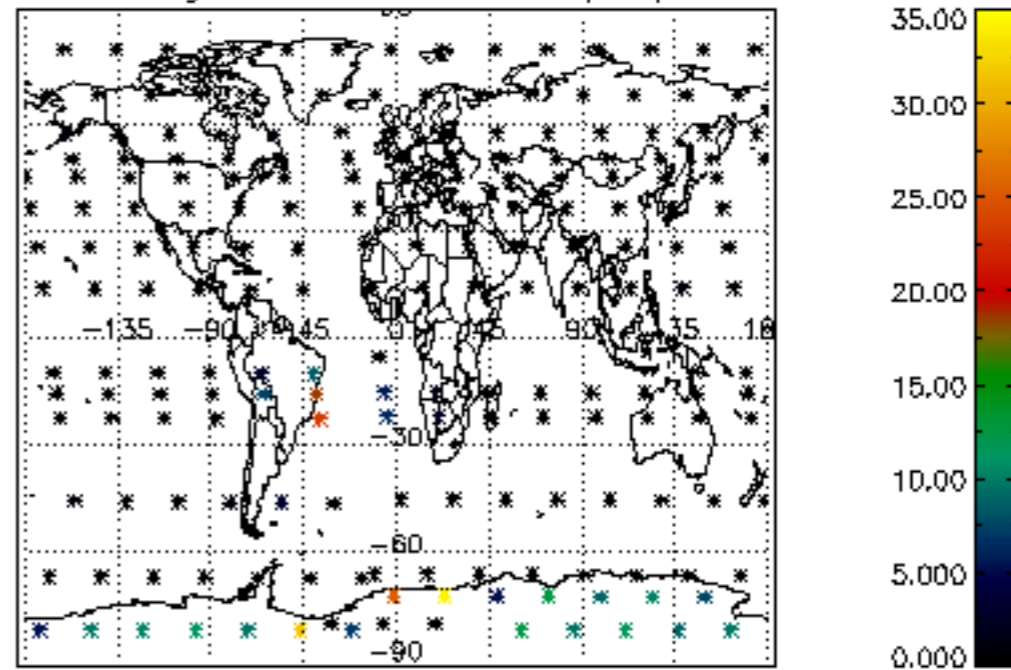
Percentage of datation errors per profile



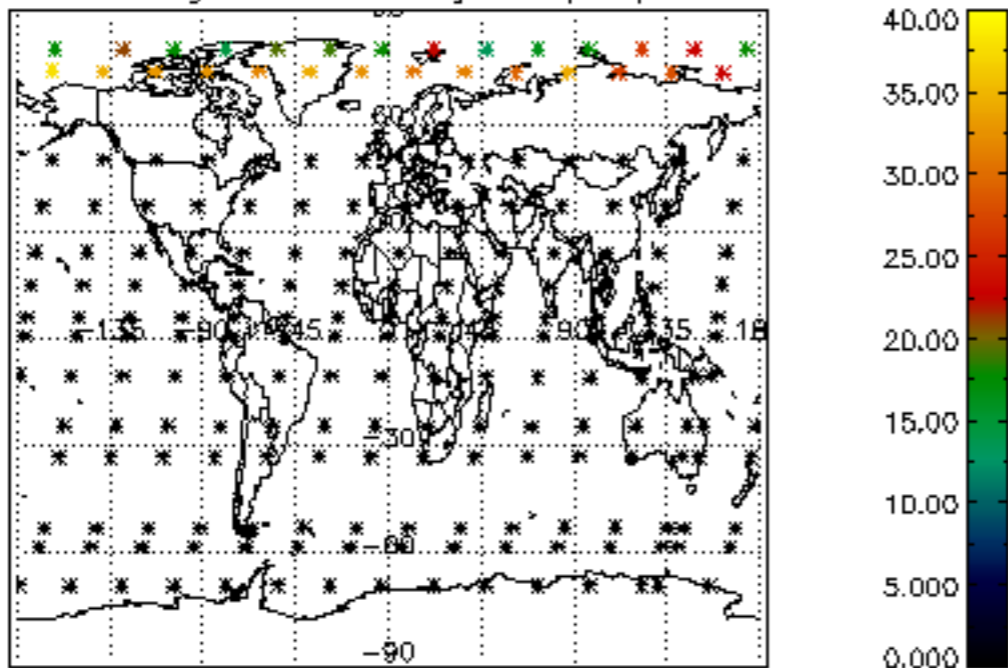
Percentage of star falling outside central band per profile



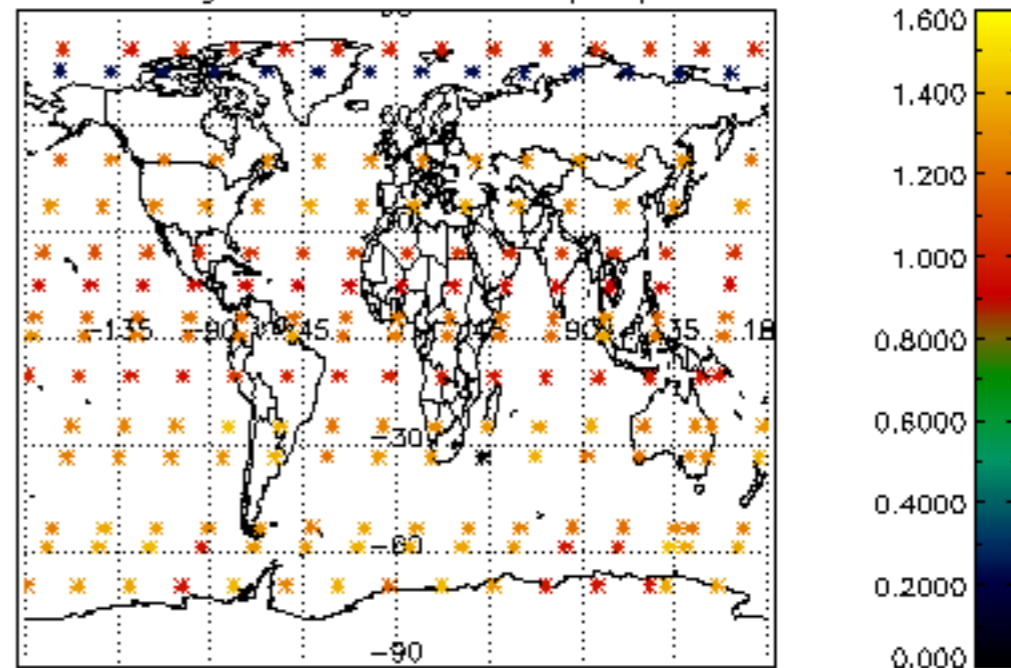
Percentage of saturation errors per profile



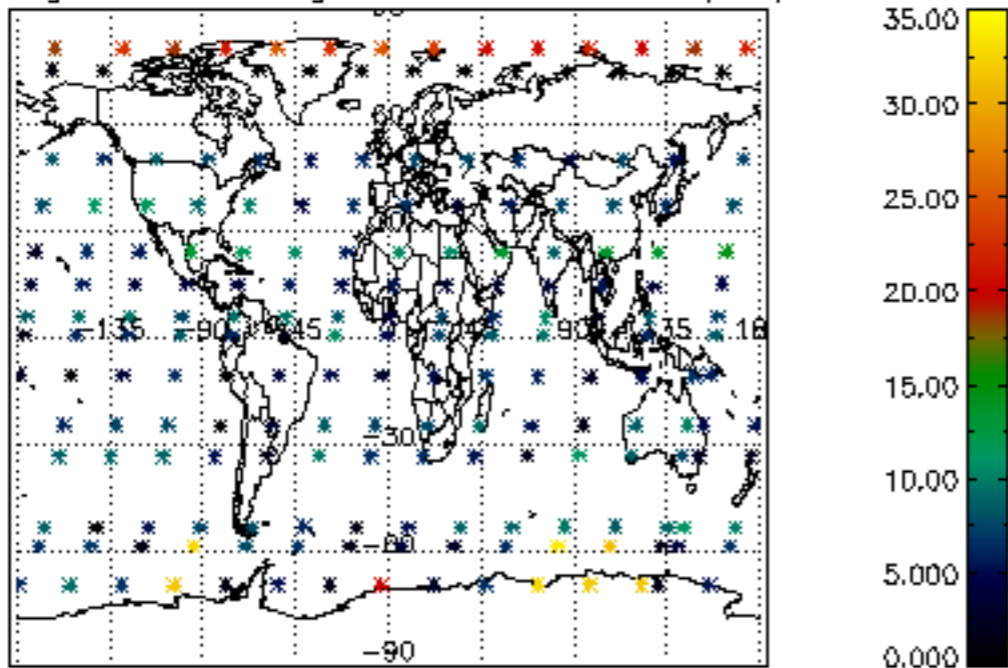
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

