

# 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	24APR2013 11:33:33
Data source version	GOMOS/6.01
Start time of products	20-03-2011 (20MAR2011 00:00:00)
Stop time of products	21-03-2011 (21MAR2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	340
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__2PRFIN20110320_000740_000000393100_00332_47329_9804.N1	20-MAR-2011 00:07:40	Bright	38.500	19	50Alp Cyg	1.2460	10500.	77	47329	No
2	GOM_NL__2PRFIN20110320_000914_000000413100_00332_47329_9805.N1	20-MAR-2011 00:09:14	Bright	40.500	66	37Gam Cyg	2.2080	5900.0	81	47329	No
3	GOM_NL__2PRFIN20110320_001101_000000383100_00332_47329_9806.N1	20-MAR-2011 00:11:01	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	47329	No
4	GOM_NL__2PRFIN20110320_001938_000000603100_00332_47329_9807.N1	20-MAR-2011 00:19:38	Twilight	59.500	11	53Alp Aql	0.76500	8000.0	119	47329	No
5	GOM_NL__2PRFIN20110320_003011_000000523100_00332_47329_9808.N1	20-MAR-2011 00:30:11	Dark	51.500	155	41Pi Sgr	2.9000	6600.0	103	47329	No
6	GOM_NL__2PRFIN20110320_003216_000000493100_00332_47329_9809.N1	20-MAR-2011 00:32:16	Dark	49.000	57	34Sig Sgr	2.0660	26000.	98	47329	No
7	GOM_NL__2PRFIN20110320_003352_000000553100_00332_47329_9810.N1	20-MAR-2011 00:33:52	Dark	54.500	137	22Lam Sgr	2.8240	4400.0	109	47329	No
8	GOM_NL__2PRFIN20110320_003548_000000493100_00332_47329_9811.N1	20-MAR-2011 00:35:48	Dark	49.000	38	20Eps Sgr	1.8360	11000.	98	47329	No
9	GOM_NL__2PRFIN20110320_004129_000000463100_00333_47330_9817.N1	20-MAR-2011 00:41:29	Dark	45.500	141	Bet Ara	2.8400	4600.0	91	47330	No
10	GOM_NL__2PRFIN20110320_004502_000000423100_00333_47330_9818.N1	20-MAR-2011 00:45:02	Dark	42.000	134	Bet TrA	2.8100	6600.0	84	47330	No
11	GOM_NL__2PRFIN20110320_004745_000000573100_00333_47330_9819.N1	20-MAR-2011 00:47:45	Dark	57.000	4	Alp1Cen	-0.010000	5800.0	114	47330	No
12	GOM_NL__2PRFIN20110320_004956_000000473100_00333_47330_9820.N1	20-MAR-2011 00:49:56	Dark	46.500	78	Alp Lup	2.3040	28000.	93	47330	No
13	GOM_NL__2PRFIN20110320_005127_000000543100_00333_47330_9821.N1	20-MAR-2011 00:51:27	Straylight	53.500	81	Eta Cen	2.3560	28000.	107	47330	No
14	GOM_NL__2PRFIN20110320_005428_000000633100_00333_47330_9822.N1	20-MAR-2011 00:54:28	Straylight	63.000	54	5The Cen	2.0550	4500.0	126	47330	No
15	GOM_NL__2PRFIN20110320_005605_000000493100_00333_47330_9823.N1	20-MAR-2011 00:56:05	Straylight	49.000	123	lot Cen	2.7500	10200.	98	47330	No
16	GOM_NL__2PRFIN20110320_010134_000000533100_00333_47330_9824.N1	20-MAR-2011 01:01:34	Straylight	52.500	106	9Bet Crv	2.6480	5600.0	105	47330	No
17	GOM_NL__2PRFIN20110320_010346_000000503100_00333_47330_9825.N1	20-MAR-2011 01:03:46	Twilight	49.500	100	4Gam Crv	2.5800	13100.	99	47330	No
18	GOM_NL__2PRFIN20110320_011423_000000443100_00333_47330_9826.N1	20-MAR-2011 01:14:23	Bright	44.000	62	94Bet Leo	2.1360	9700.0	88	47330	No
19	GOM_NL__2PRFIN20110320_012239_000000393100_00333_47330_9827.N1	20-MAR-2011 01:22:39	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	47330	No
20	GOM_NL__2PRFIN20110320_012553_000000373100_00333_47330_9828.N1	20-MAR-2011 01:25:53	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	47330	No
21	GOM_NL__2PRFIN20110320_012724_000000373100_00333_47330_9829.N1	20-MAR-2011 01:27:24	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	47330	No
22	GOM_NL__2PRFIN20110320_012934_000000483100_00333_47330_9830.N1	20-MAR-2011 01:29:34	Bright	47.500	55	79Zet UMa	2.0600	10200.	95	47330	No
23	GOM_NL__2PRFIN20110320_013418_000000413100_00333_47330_9831.N1	20-MAR-2011 01:34:18	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47330	No
24	GOM_NL__2PRFIN20110320_013804_000000463100_00333_47330_9832.N1	20-MAR-2011 01:38:04	Bright	46.000	119	14Eta Dra	2.7270	4700.0	92	47330	No
25	GOM_NL__2PRFIN20110320_014754_000000363100_00333_47330_9833.N1	20-MAR-2011 01:47:54	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	47330	No
26	GOM_NL__2PRFIN20110320_014928_000000373100_00333_47330_9834.N1	20-MAR-2011 01:49:28	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	47330	No
27	GOM_NL__2PRFIN20110320_015115_000000393100_00333_47330_9835.N1	20-MAR-2011 01:51:15	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	47330	No
28	GOM_NL__2PRFIN20110320_015953_000000553100_00333_47330_9836.N1	20-MAR-2011 01:59:53	Twilight	54.500	11	53Alp Aql	0.76500	8000.0	109	47330	No
29	GOM_NL__2PRFIN20110320_021026_000000503100_00333_47330_9837.N1	20-MAR-2011 02:10:26	Dark	50.000	155	41Pi Sgr	2.9000	6600.0	100	47330	No
30	GOM_NL__2PRFIN20110320_021231_000000503100_00333_47330_9838.N1	20-MAR-2011 02:12:31	Dark	49.500	57	34Sig Sgr	2.0660	26000.	99	47330	No
31	GOM_NL__2PRFIN20110320_021407_000000533100_00333_47330_9839.N1	20-MAR-2011 02:14:07	Dark	52.500	137	22Lam Sgr	2.8240	4400.0	105	47330	No
32	GOM_NL__2PRFIN20110320_021603_000000493100_00333_47330_9840.N1	20-MAR-2011 02:16:03	Dark	49.000	38	20Eps Sgr	1.8360	11000.	98	47330	No
33	GOM_NL__2PRFIN20110320_022144_000000453100_00334_47331_9827.N1	20-MAR-2011 02:21:44	Dark	44.500	141	Bet Ara	2.8400	4600.0	89	47331	No
34	GOM_NL__2PRFIN20110320_022517_000000413100_00334_47331_9828.N1	20-MAR-2011 02:25:17	Dark	40.500	134	Bet TrA	2.8100	6600.0	81	47331	No
35	GOM_NL__2PRFIN20110320_022800_000000453100_00334_47331_9829.N1	20-MAR-2011 02:28:00	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	47331	No
36	GOM_NL__2PRFIN20110320_023011_000000483100_00334_47331_9830.N1	20-MAR-2011 02:30:11	Dark	47.500	78	Alp Lup	2.3040	28000.	95	47331	No
37	GOM_NL__2PRFIN20110320_023141_000000513100_00334_47331_9831.N1	20-MAR-2011 02:31:41	Straylight	51.000	81	Eta Cen	2.3560	28000.	102	47331	No
38	GOM_NL__2PRFIN20110320_023443_000000613100_00334_47331_9832.N1	20-MAR-2011 02:34:43	Straylight	60.500	54	5The Cen	2.0550	4500.0	121	47331	No
39	GOM_NL__2PRFIN20110320_023620_000000483100_00334_47331_9833.N1	20-MAR-2011 02:36:20	Straylight	48.000	123	lot Cen	2.7500	10200.	96	47331	No
40	GOM_NL__2PRFIN20110320_024148_000000533100_00334_47331_9834.N1	20-MAR-2011 02:41:48	Straylight	53.000	106	9Bet Crv	2.6480	5600.0	106	47331	No
41	GOM_NL__2PRFIN20110320_024400_000000503100_00334_47331_9835.N1	20-MAR-2011 02:44:00	Twilight	49.500	100	4Gam Crv	2.5800	13100.	99	47331	No
42	GOM_NL__2PRFIN20110320_025437_000000433100_00334_47331_9836.N1	20-MAR-2011 02:54:37	Bright	43.000	62	94Bet Leo	2.1360	9700.0	86	47331	No









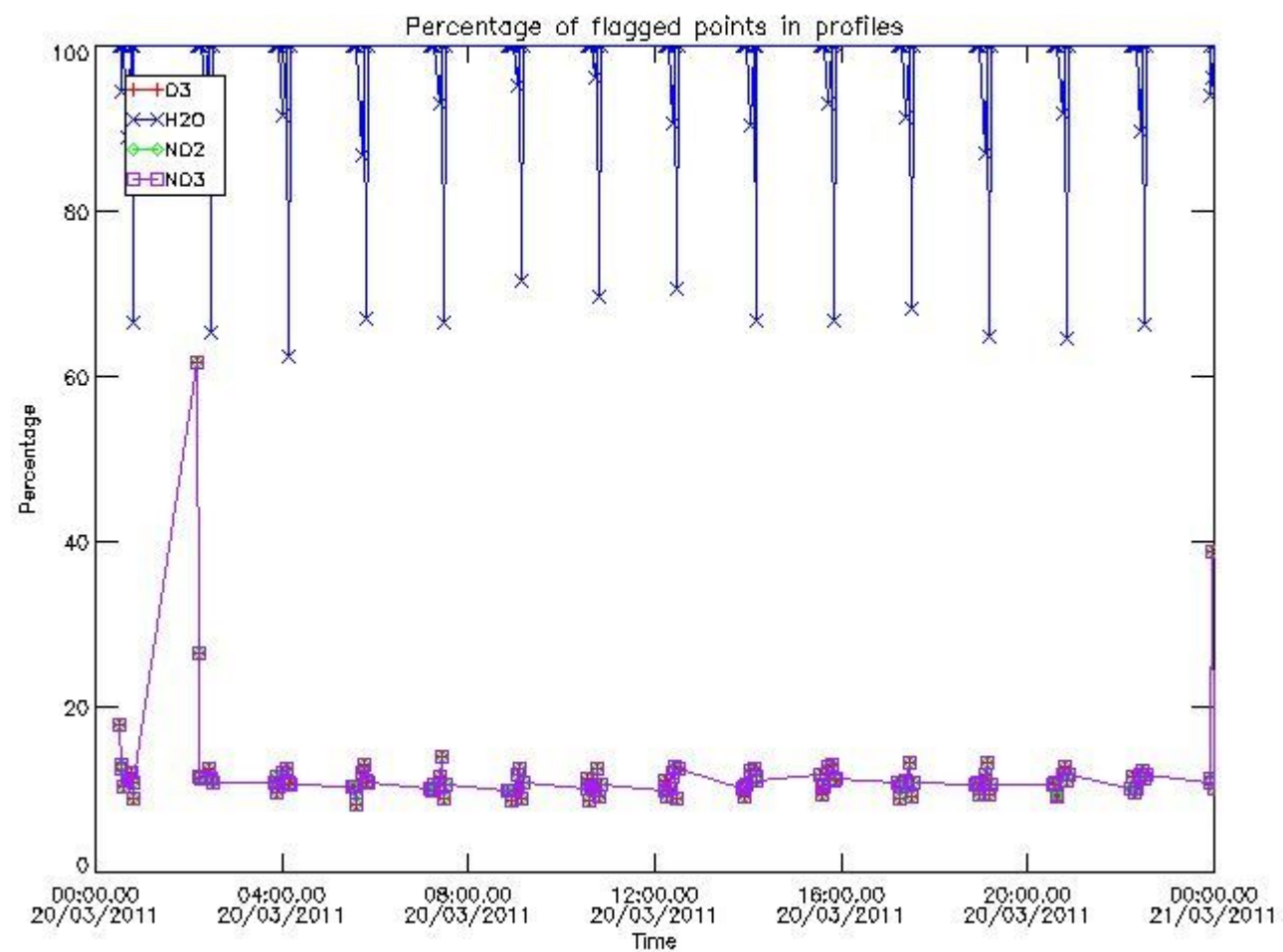


338	GOM_NL__2PRFIN20110320_235546_000000503100_00346_47343_7093.N1	20-MAR-2011 23:55:46	Dark	49.500	57	34Sig Sgr	2.0660	26000.	99	47343	No
339	GOM_NL__2PRFIN20110320_235725_000000653100_00346_47343_7094.N1	20-MAR-2011 23:57:25	Dark	65.000	137	22Lam Sgr	2.8240	4400.0	130	47343	No
340	GOM_NL__2PRFIN20110320_235918_000000513100_00346_47343_7095.N1	20-MAR-2011 23:59:18	Dark	50.500	38	20Eps Sgr	1.8360	11000.	101	47343	No

### 3. Quality information per product

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

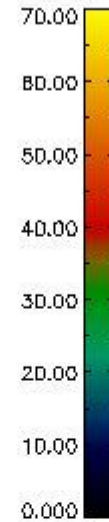
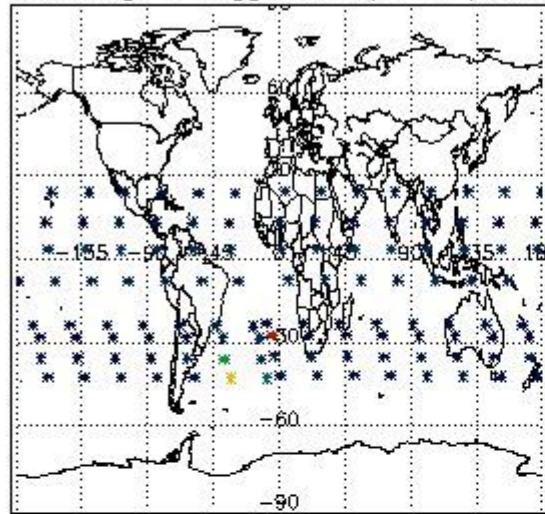
#### 3.1 Plot quality information per product (time dependant)



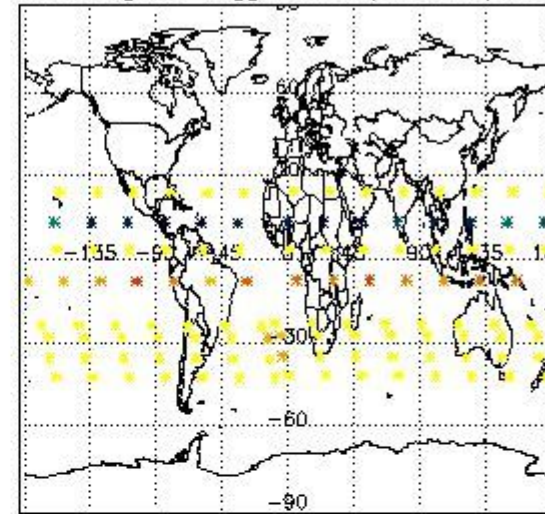
#### 3.2 Plot quality information per product (world map)



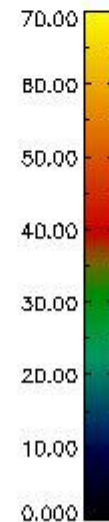
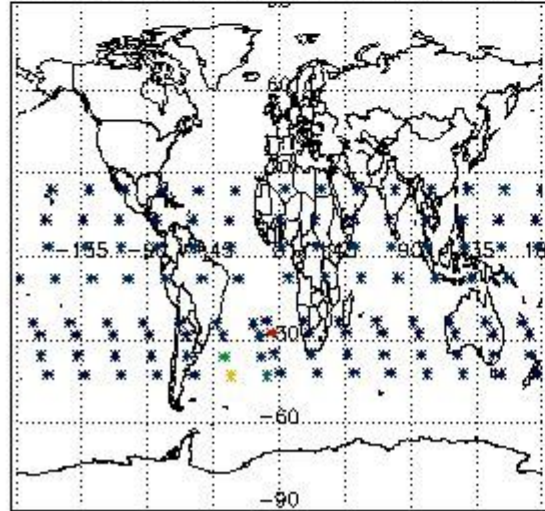
Percentage of flagged data per O3 profile



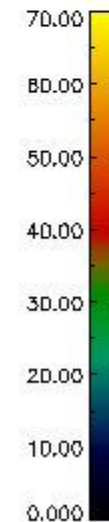
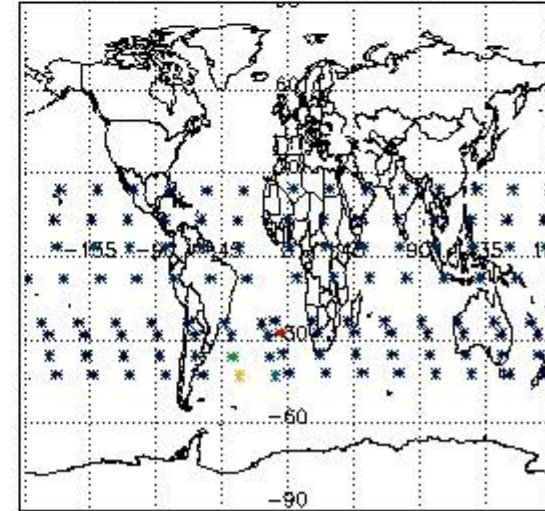
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

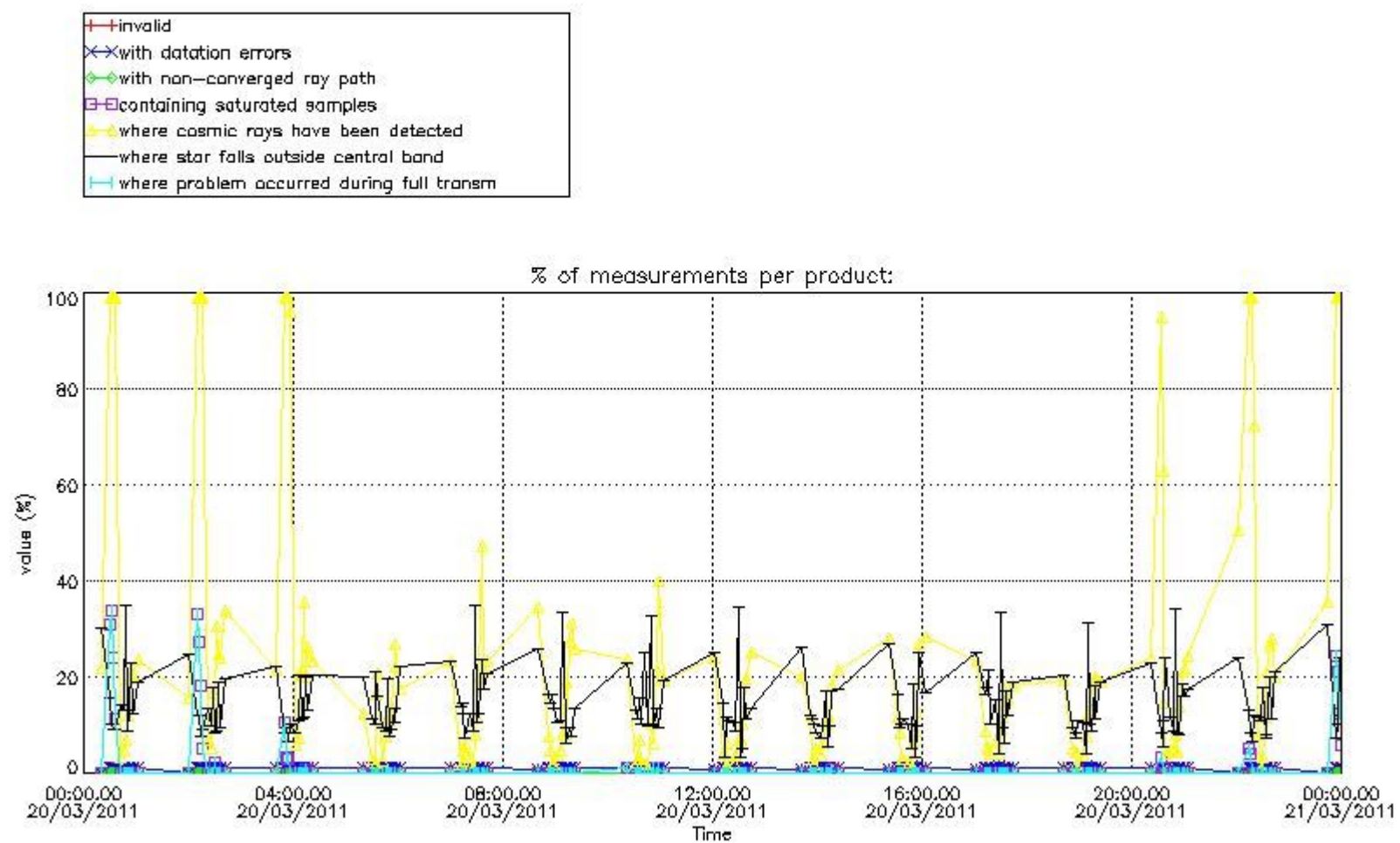


#### 4. Level 1 quality information per product

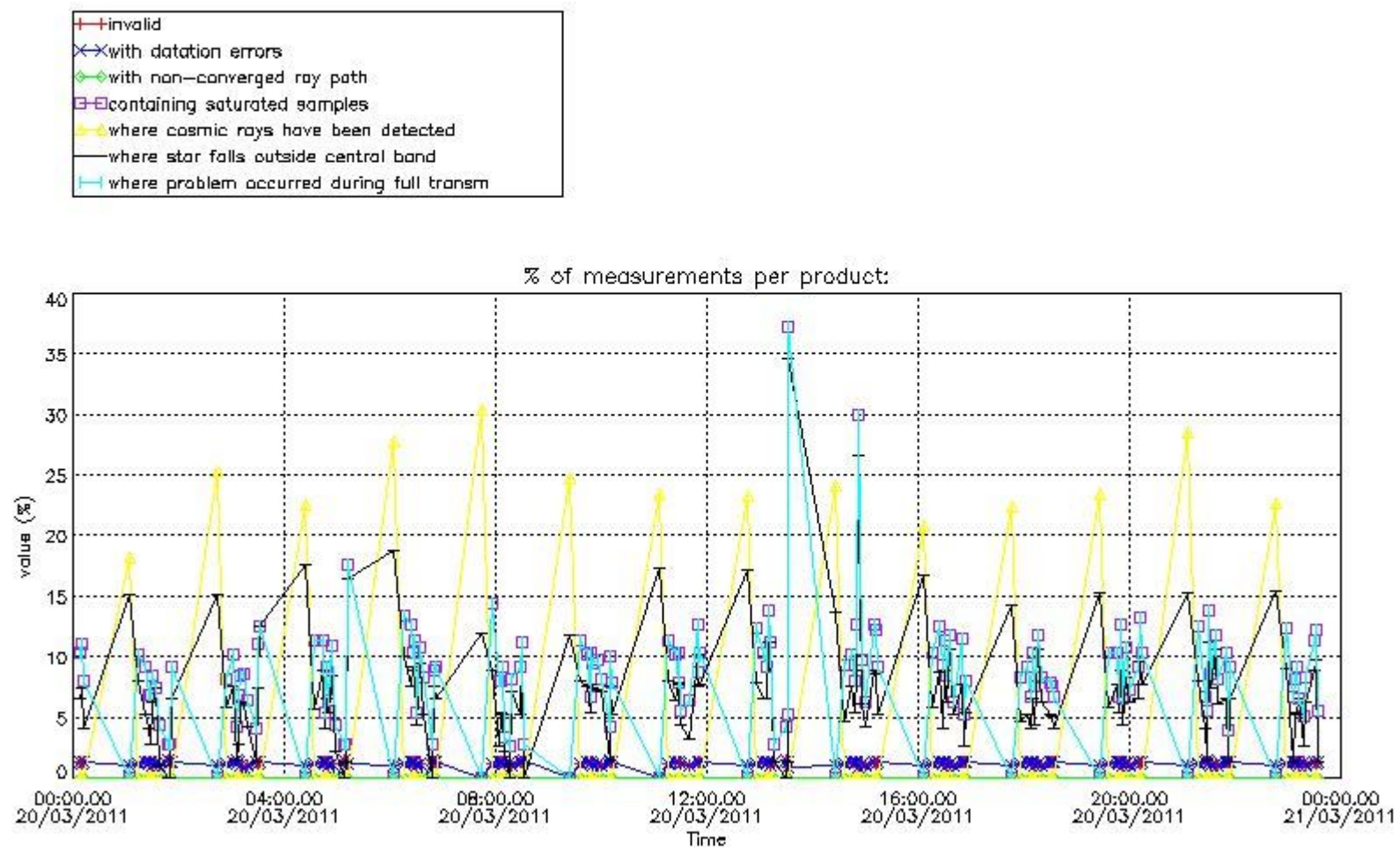
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

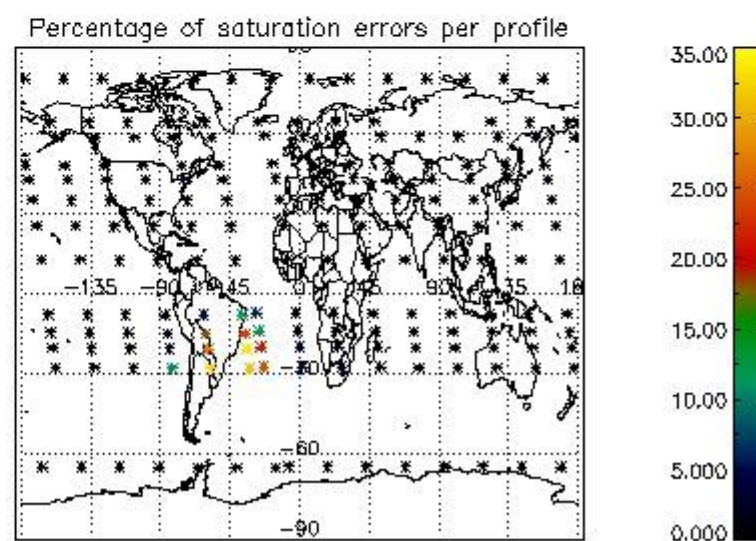
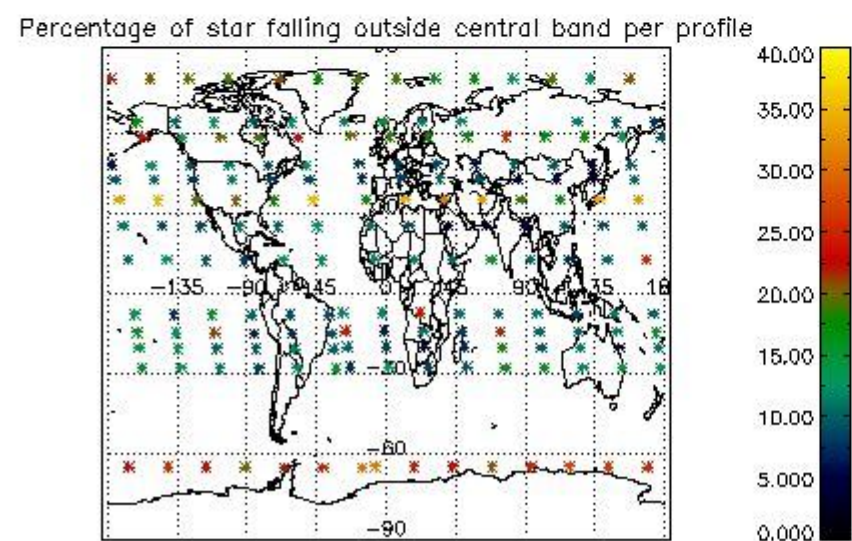
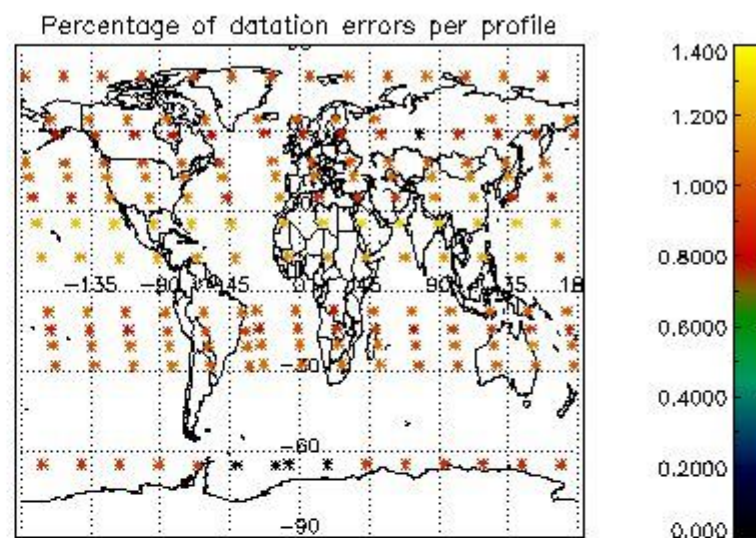
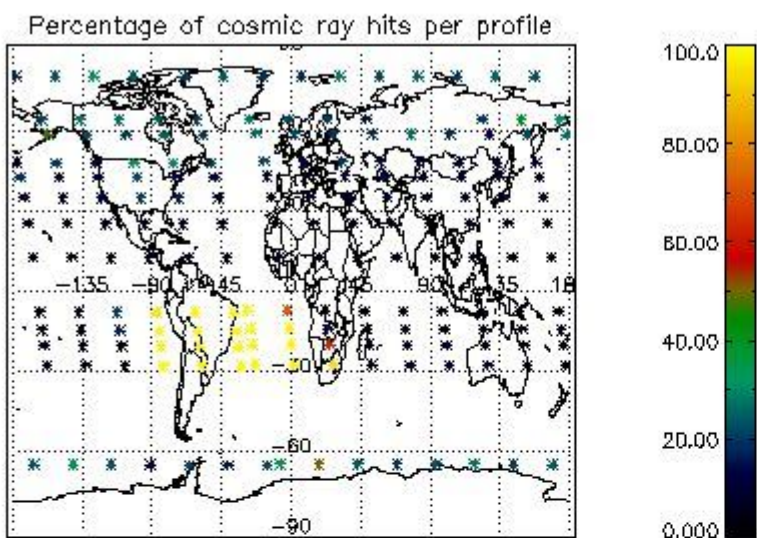


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

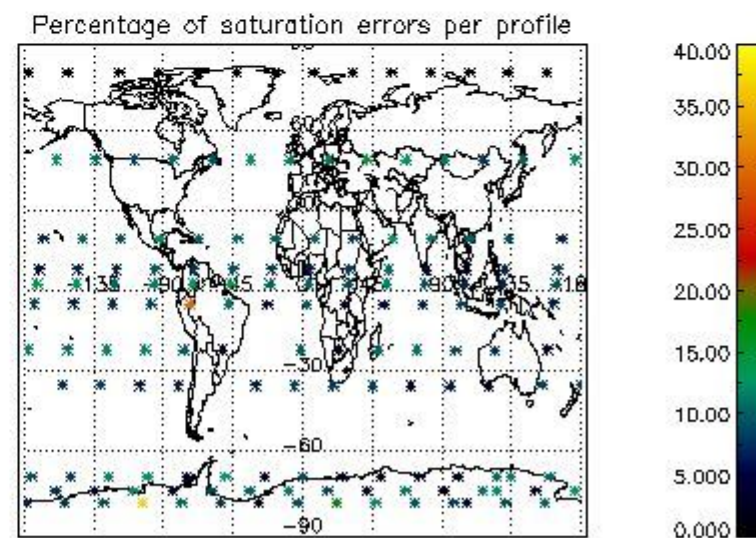
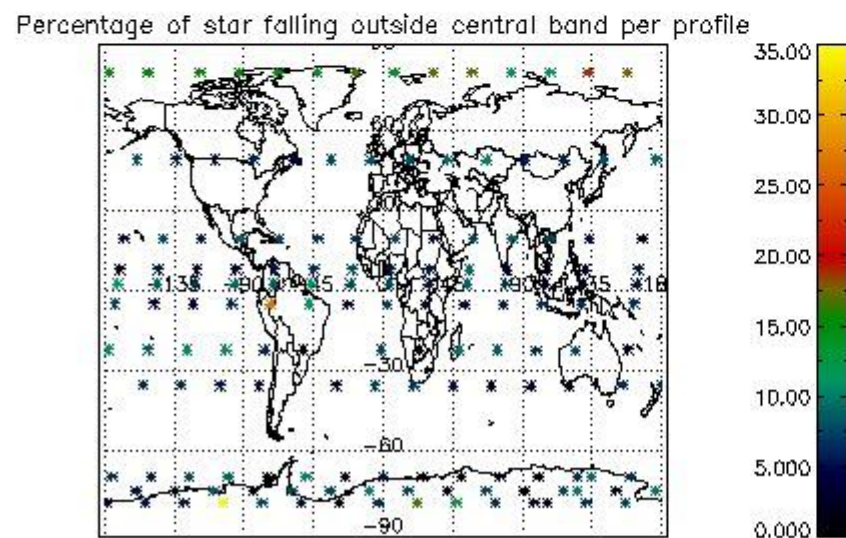
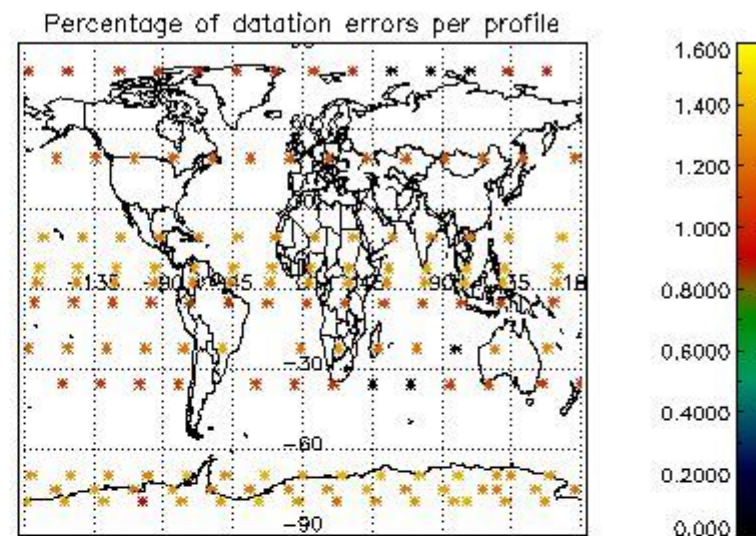
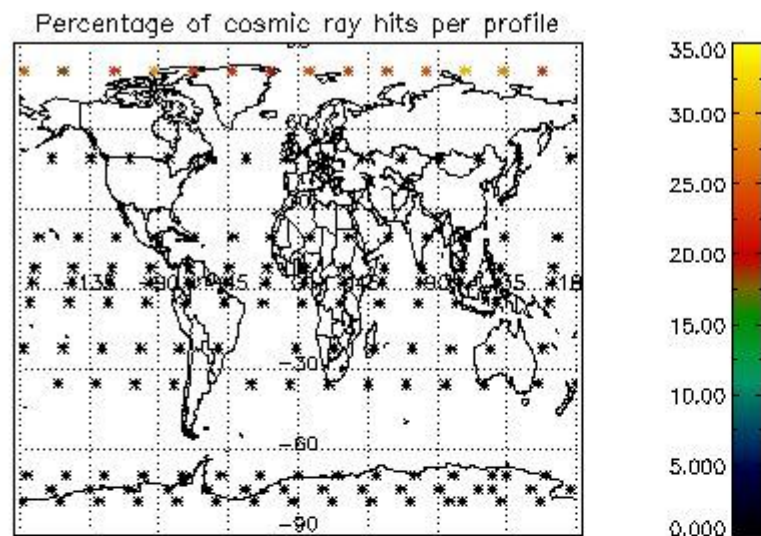


*4.2 Plot quality information per product coming from level 1b processing (world map)*

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



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



## 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

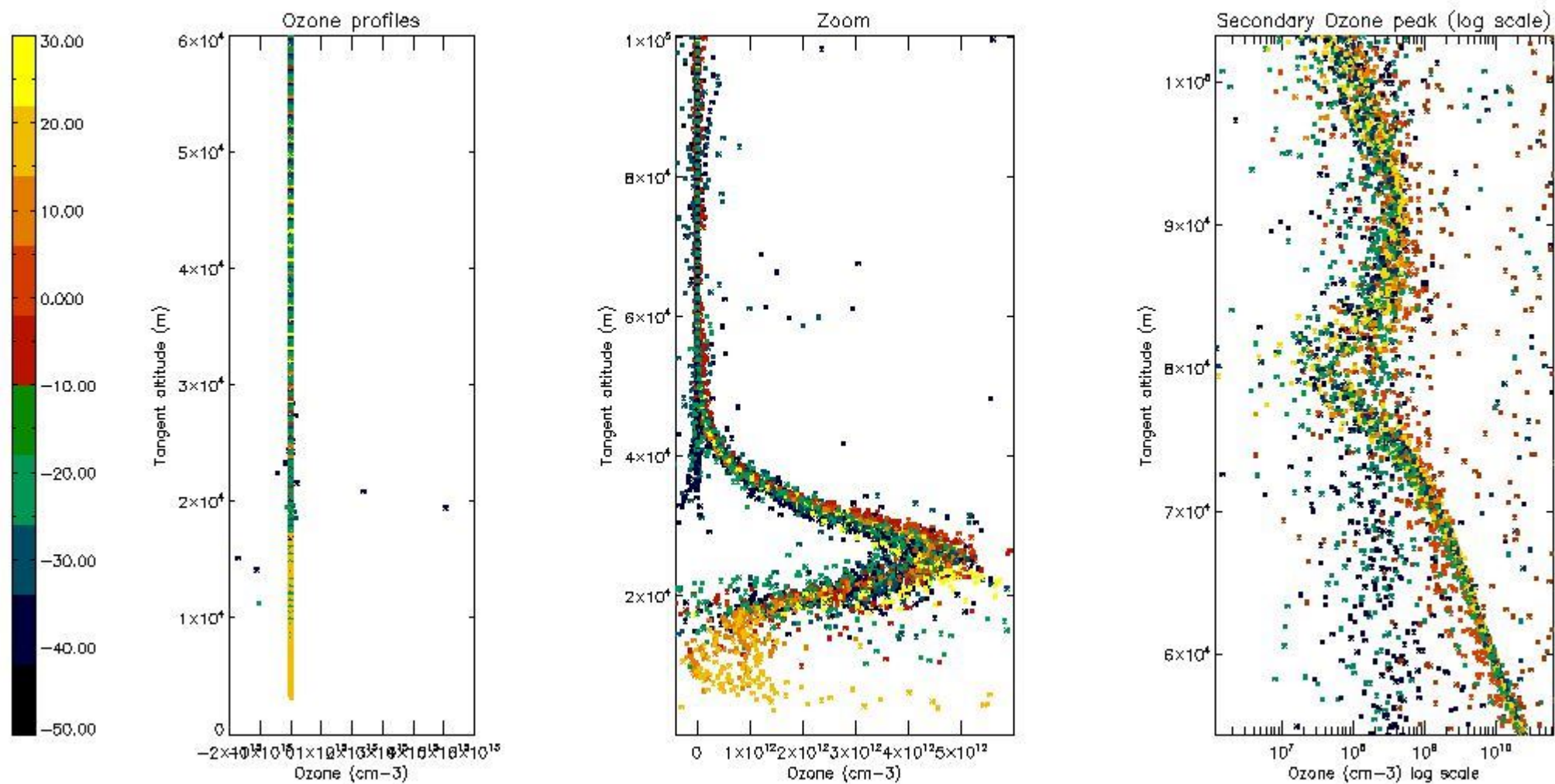
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	15

STD < 10	10
STD < 5	7

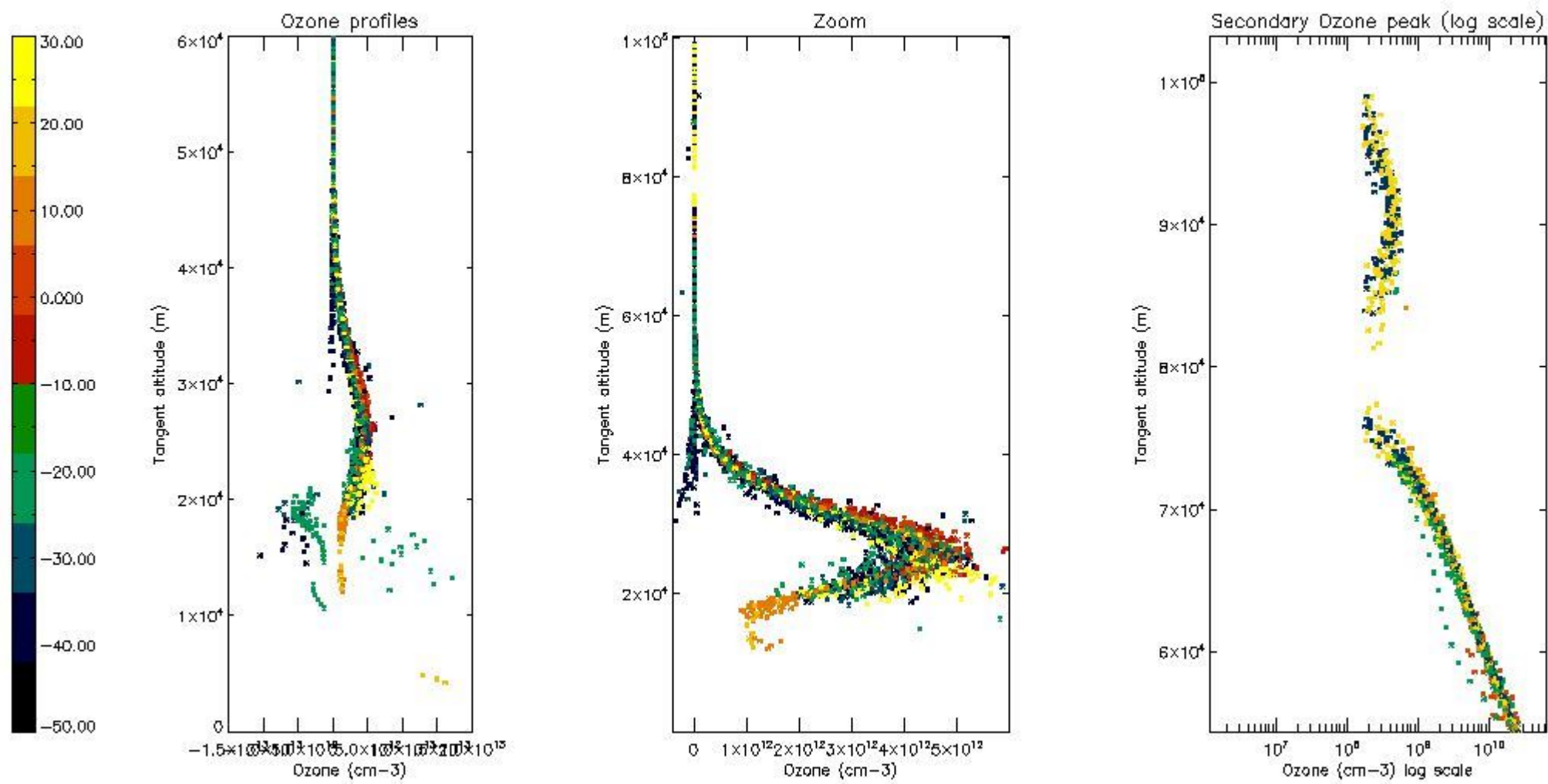
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



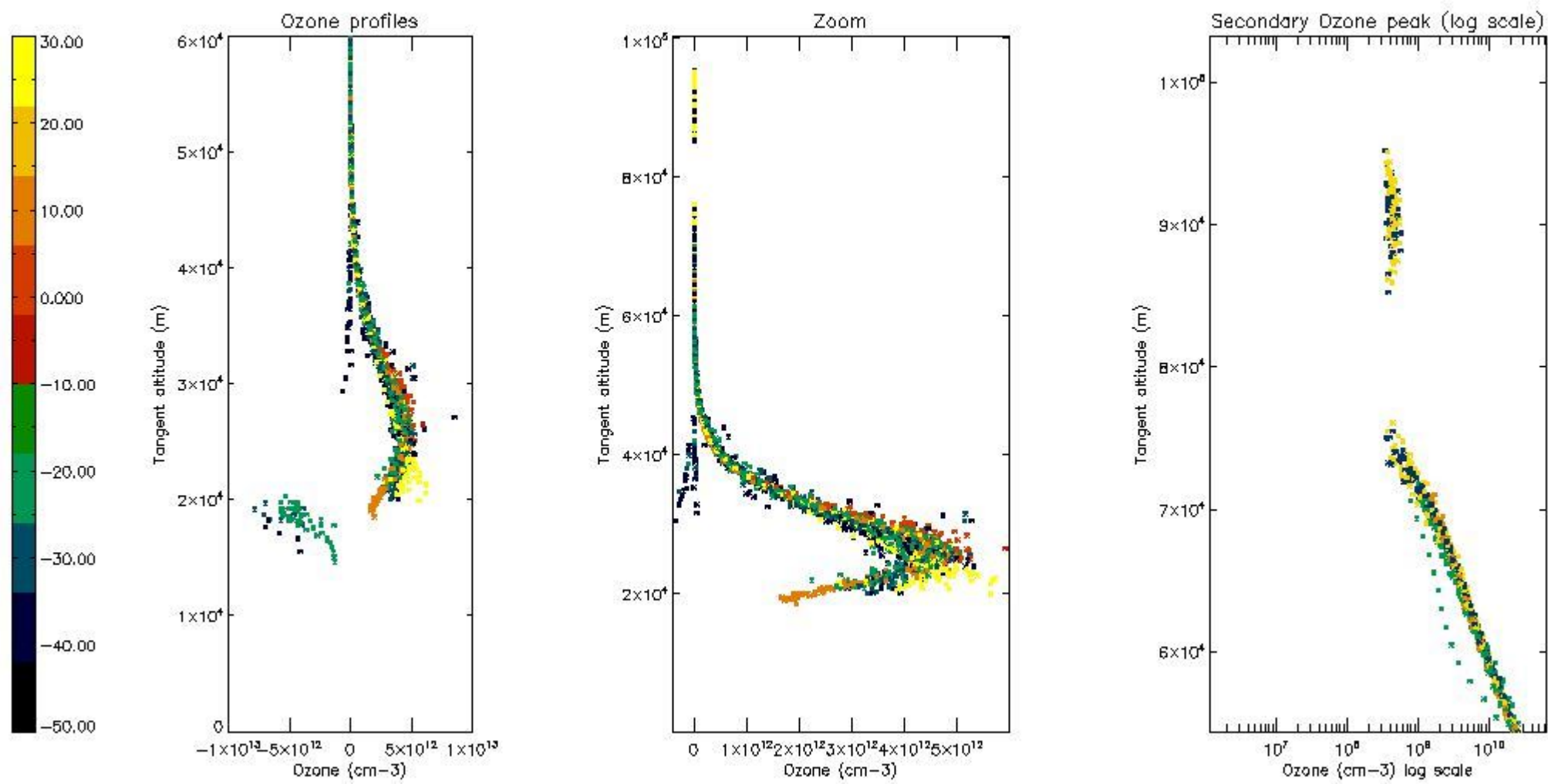
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

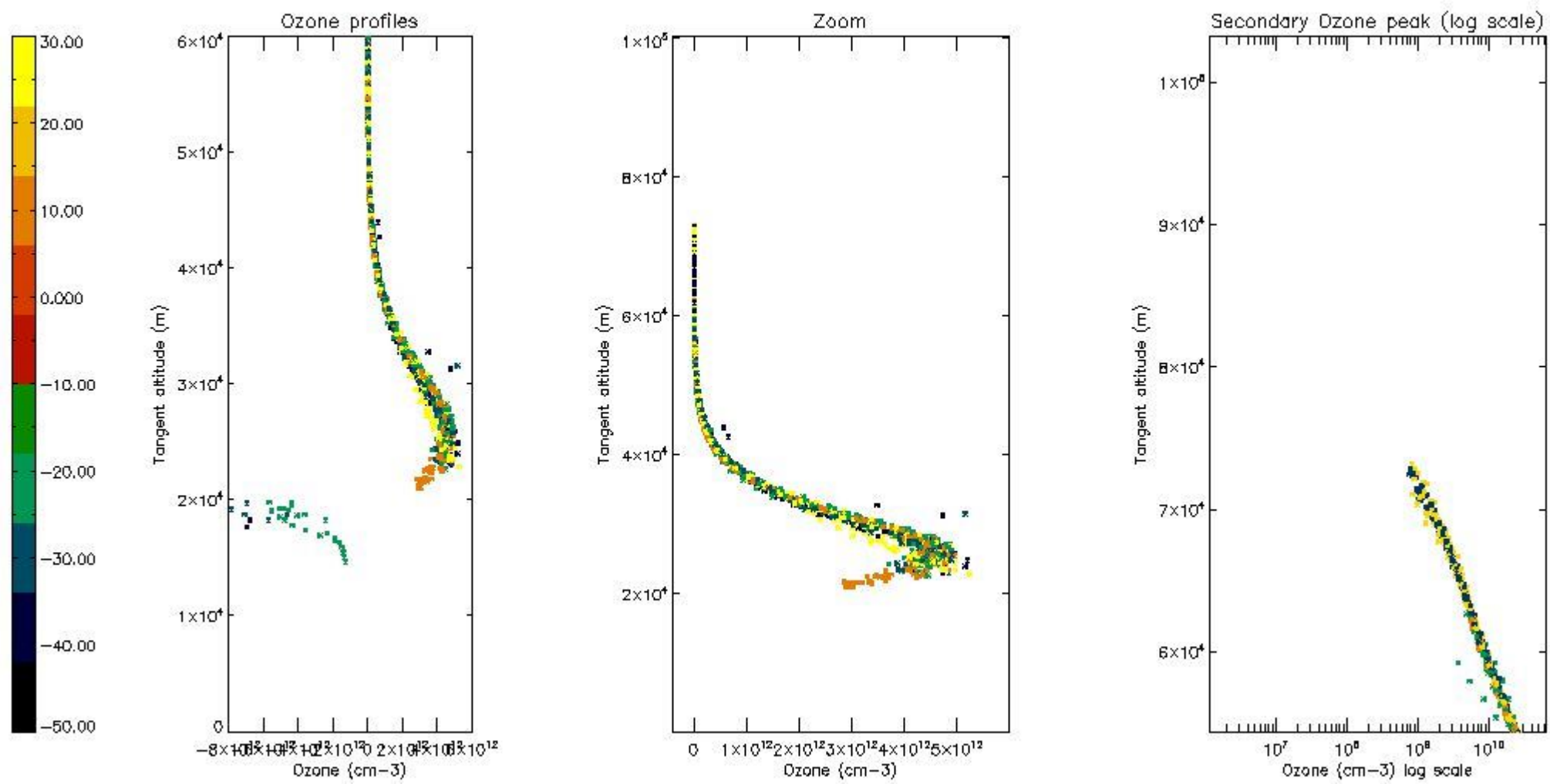
The colorbar represents the latitude.



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

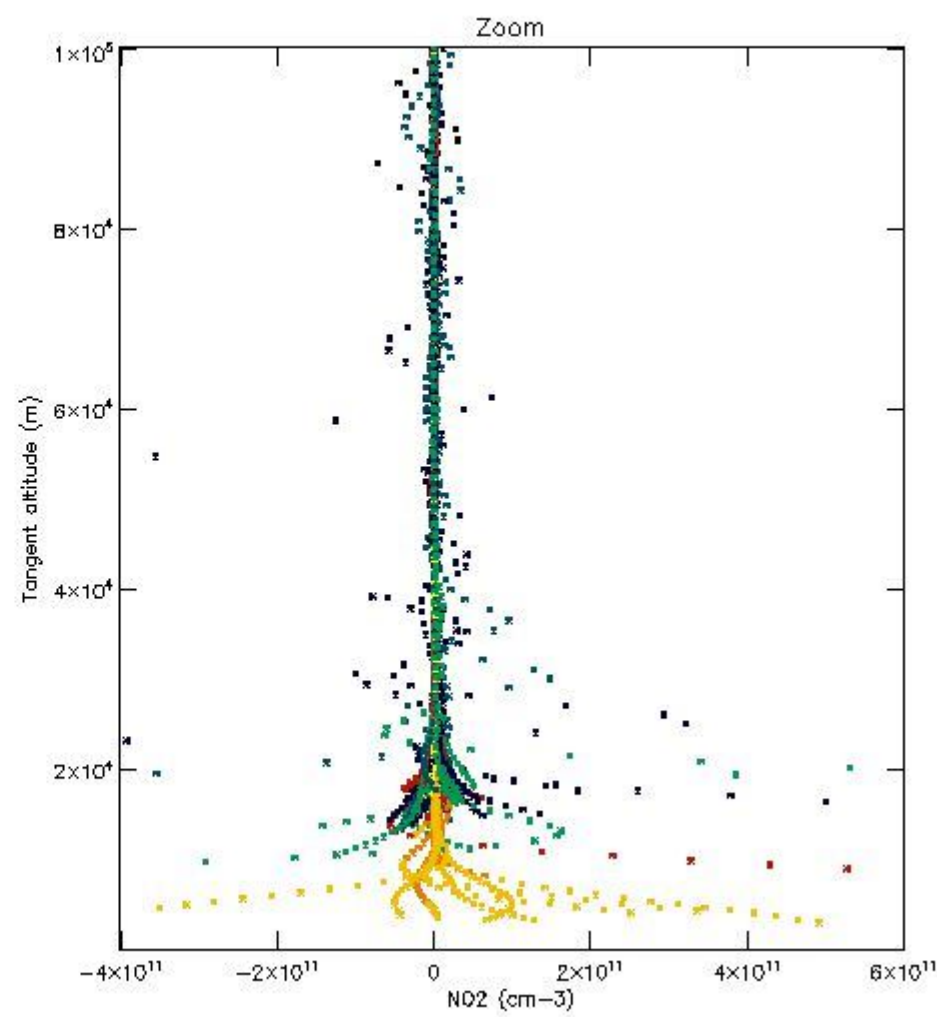
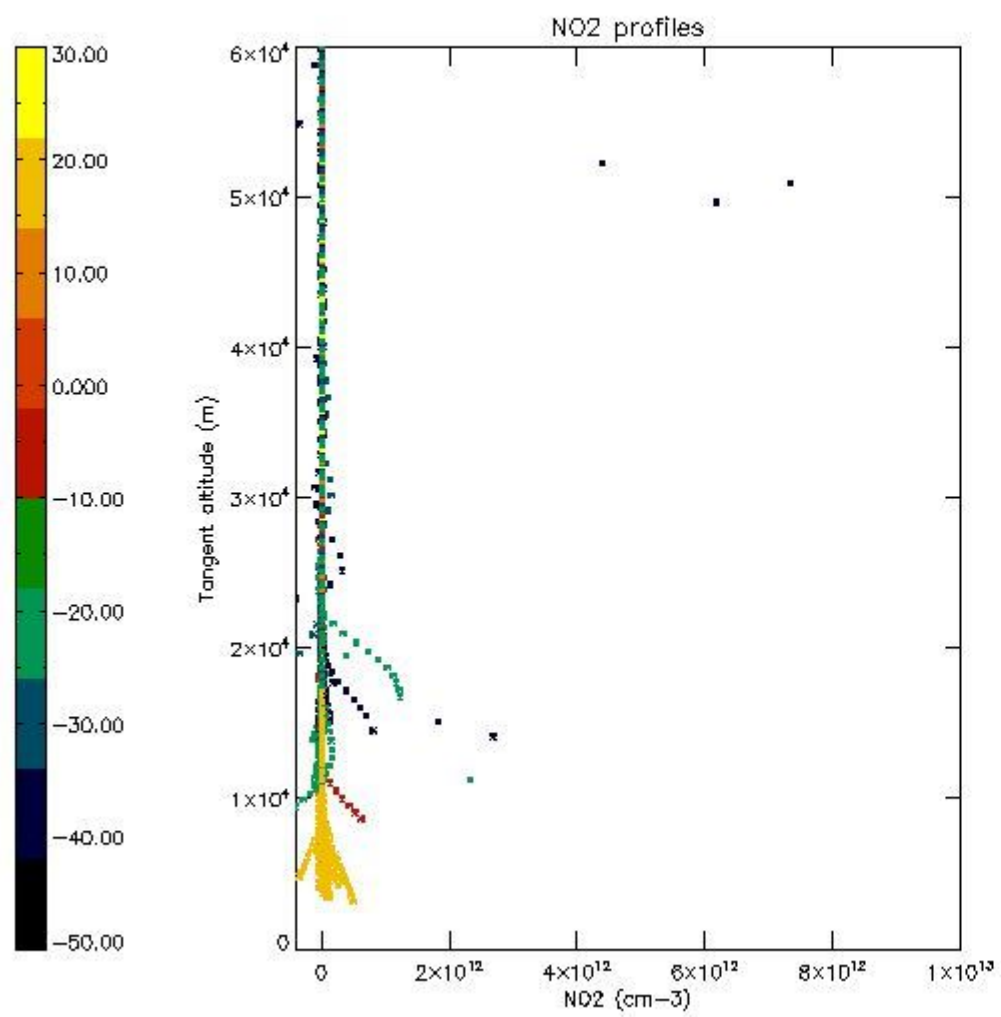
The colorbar represents the latitude.





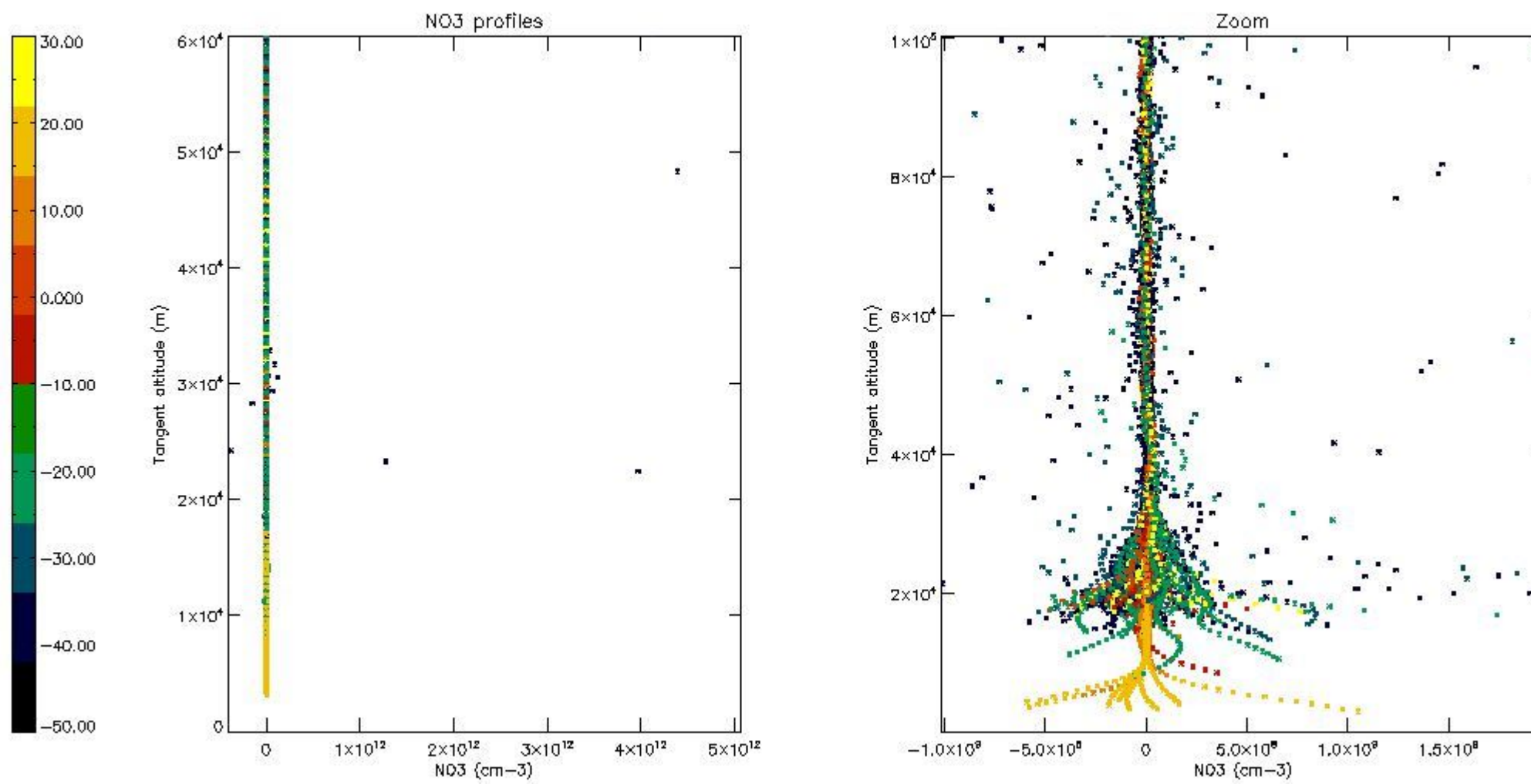
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

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_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	20-MAR-2011 00:07:40
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-MAR-2011 00:07:40
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-MAR-2011 00:07:40

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##### [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](#)

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

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### [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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#### [5.8 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](#)













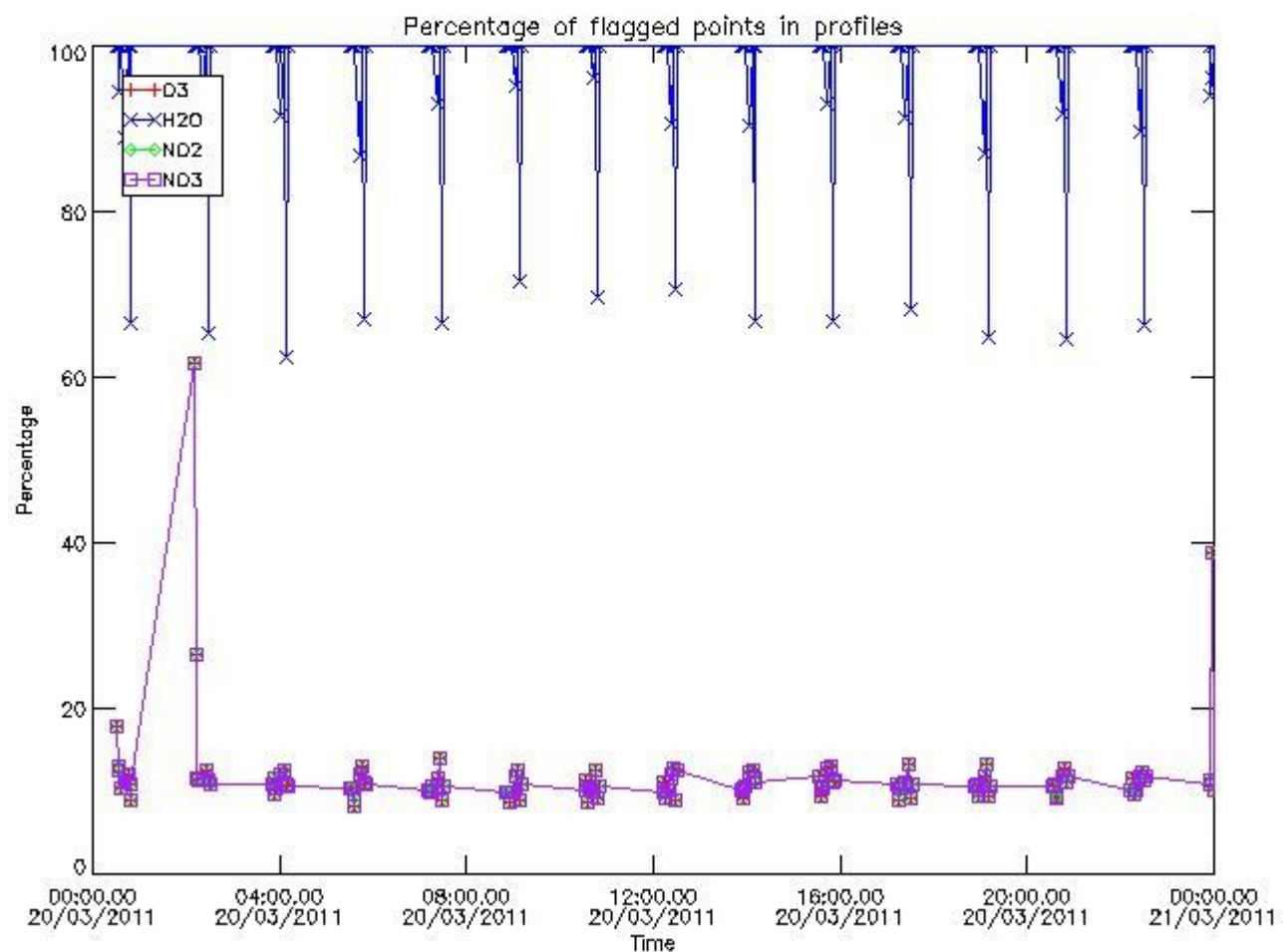


338	GOM_NL__2PRFIN20110320_235546_000000503100_00346_47343_7093.N1	20-MAR-2011 23:55:46	Dark	49.500	57	34Sig Sgr	2.0660	26000.	99	47343	No
339	GOM_NL__2PRFIN20110320_235725_000000653100_00346_47343_7094.N1	20-MAR-2011 23:57:25	Dark	65.000	137	22Lam Sgr	2.8240	4400.0	130	47343	No
340	GOM_NL__2PRFIN20110320_235918_000000513100_00346_47343_7095.N1	20-MAR-2011 23:59:18	Dark	50.500	38	20Eps Sgr	1.8360	11000.	101	47343	No

### 3. Quality information per product

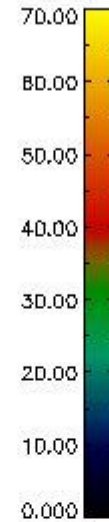
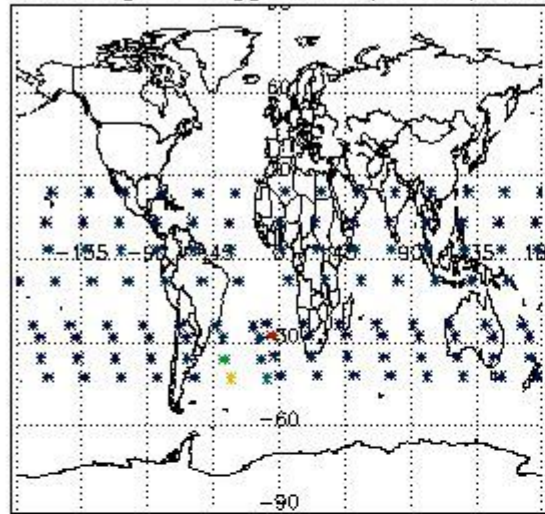
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

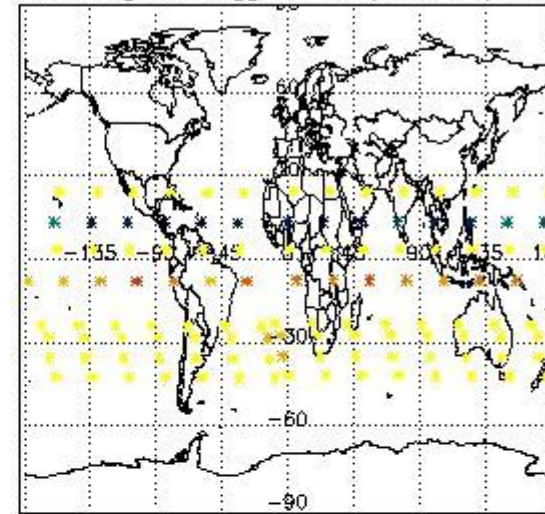


#### 3.2 Plot quality information per product (world map)

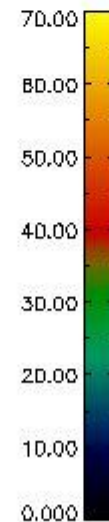
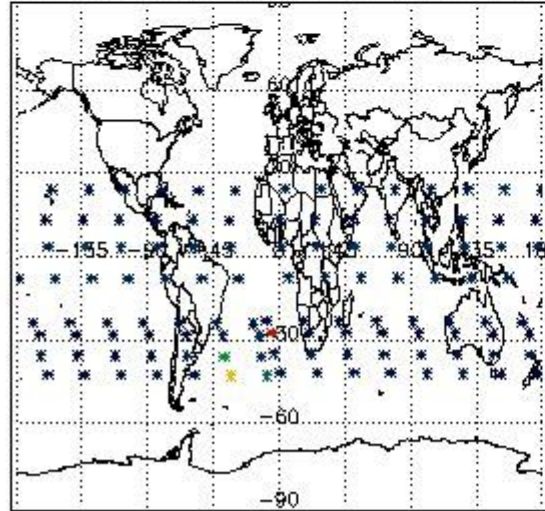
Percentage of flagged data per O3 profile



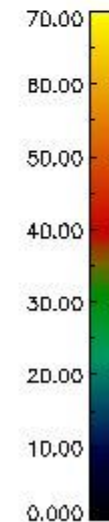
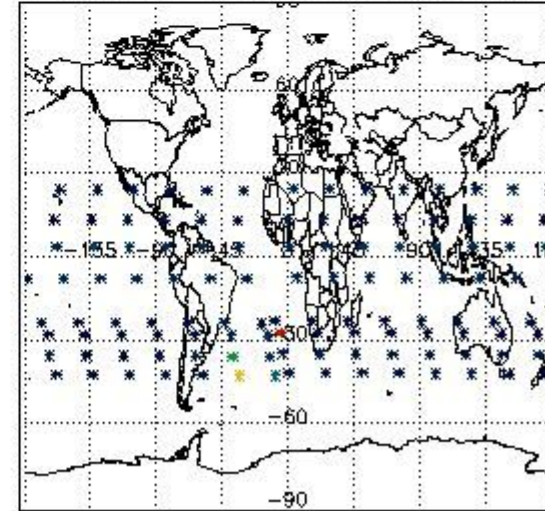
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

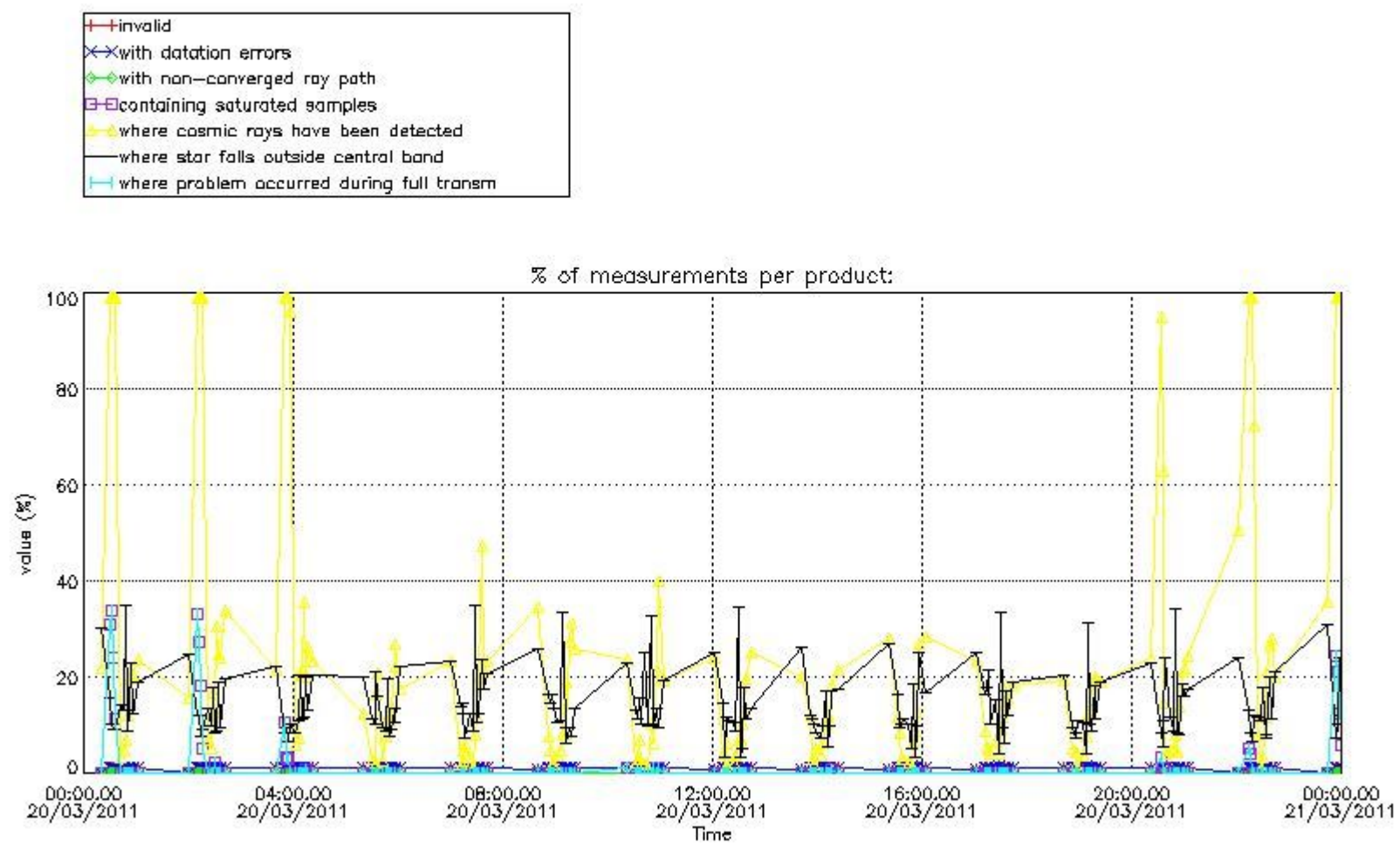


#### 4. Level 1 quality information per product

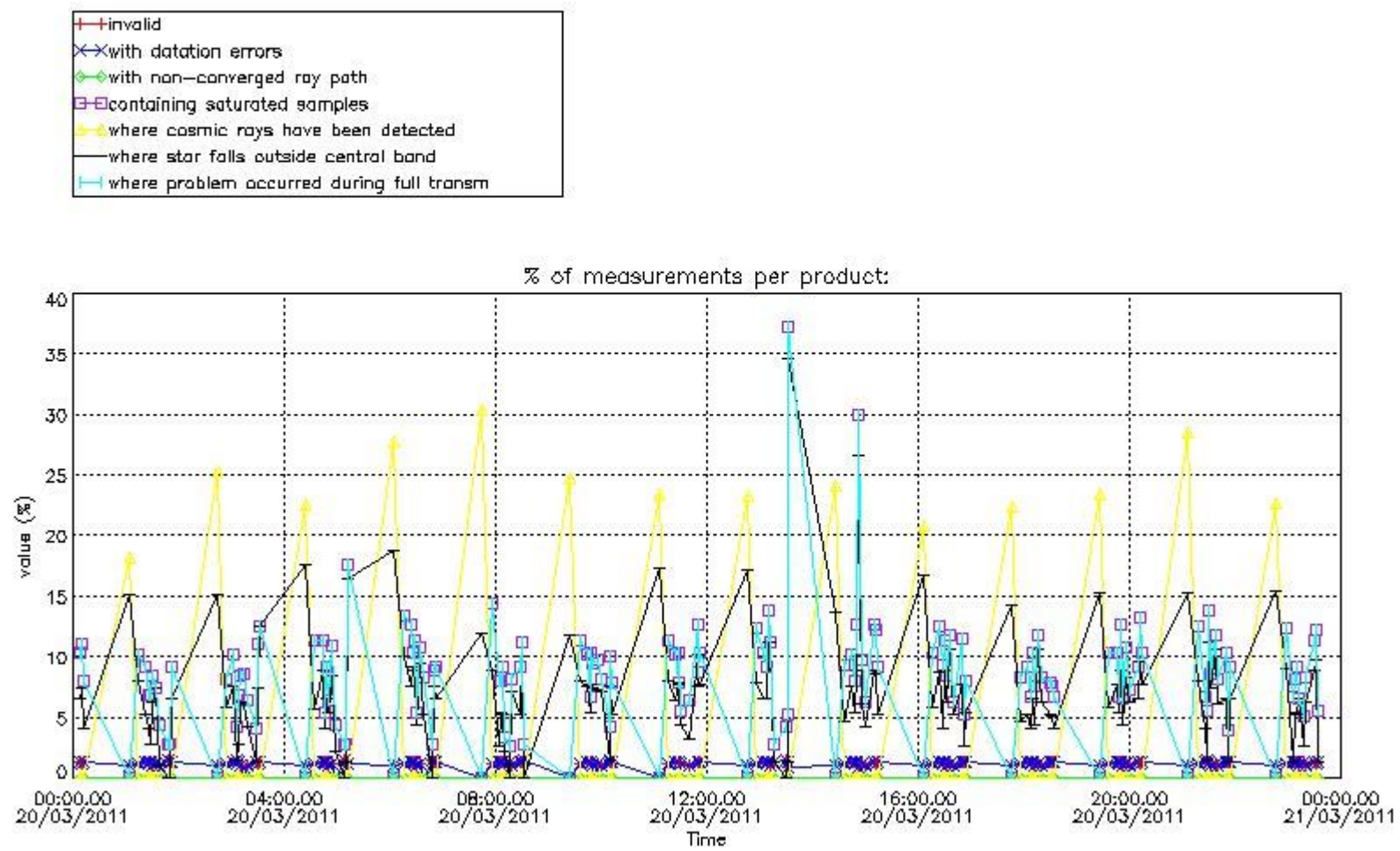
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

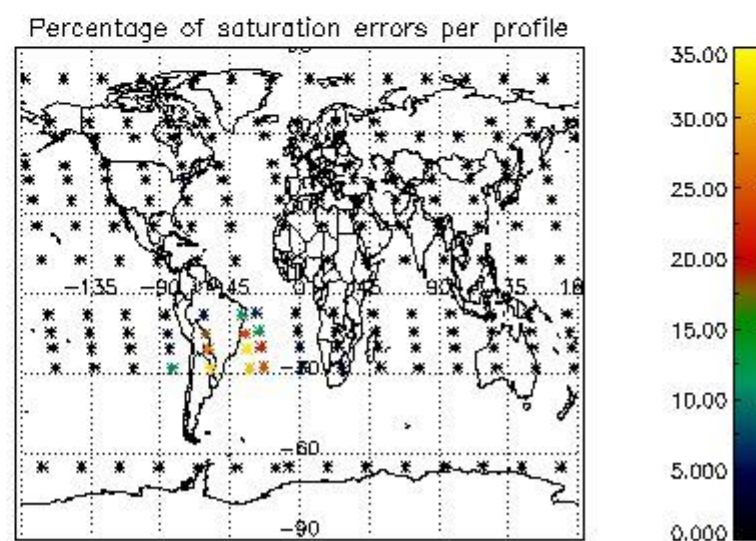
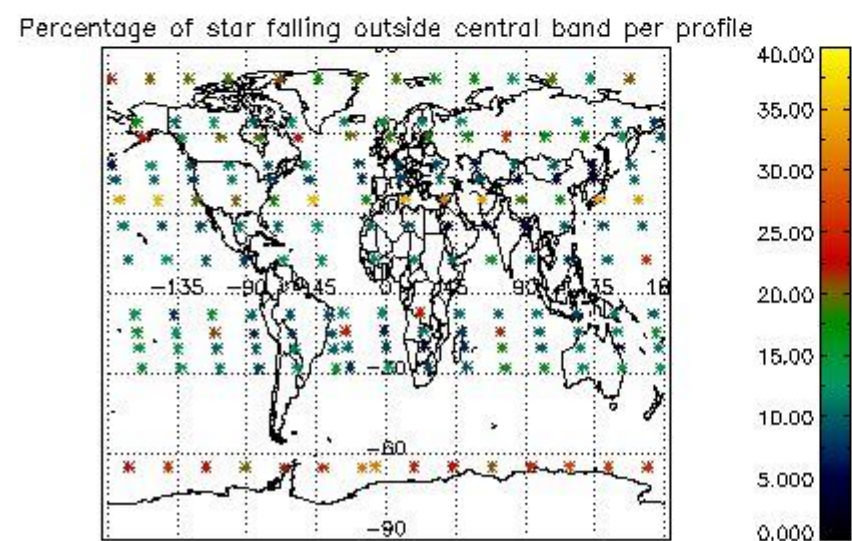
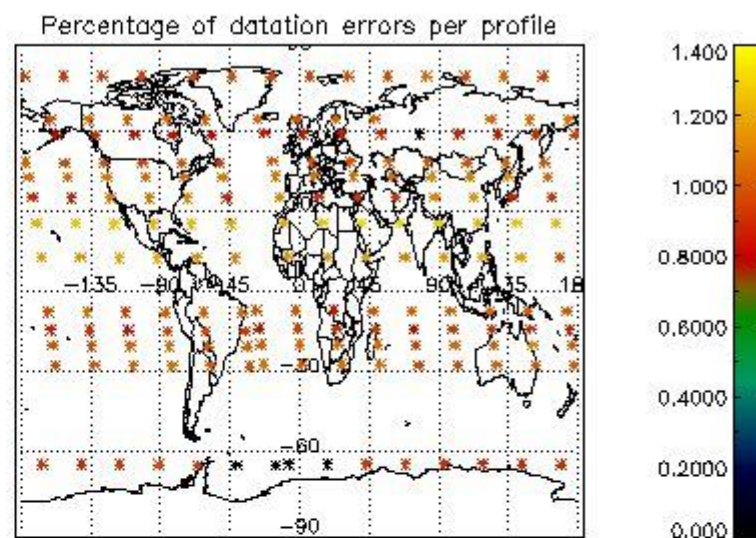
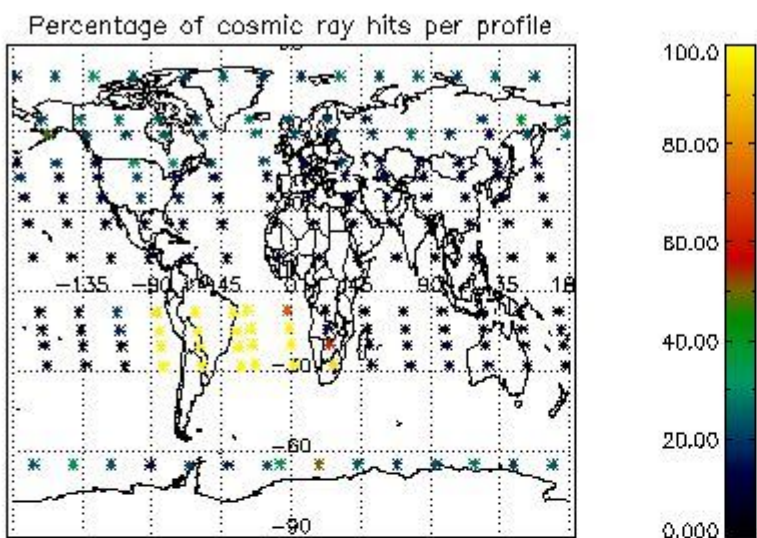


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

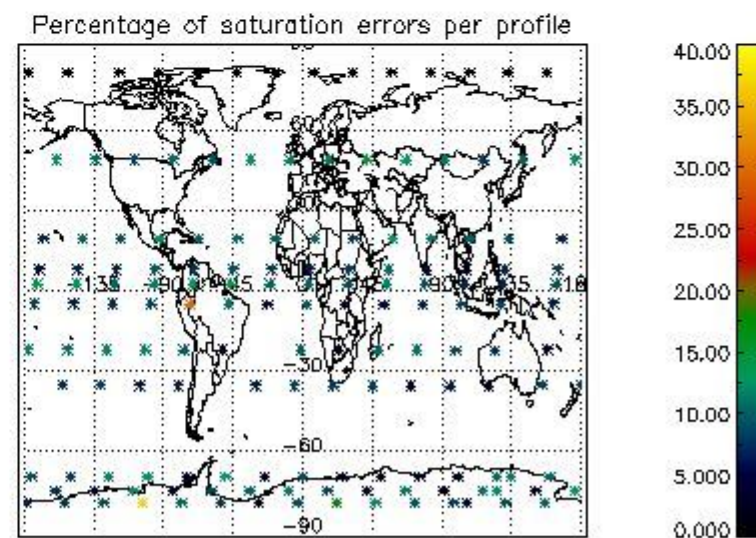
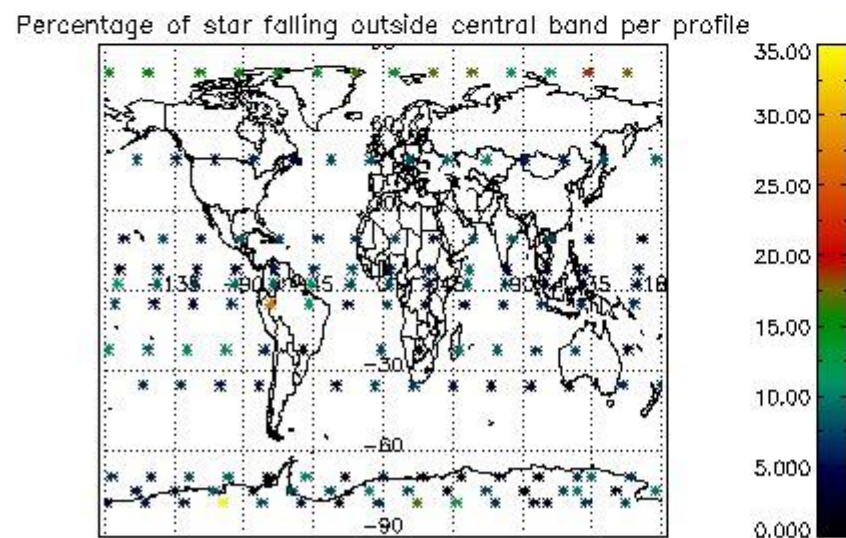
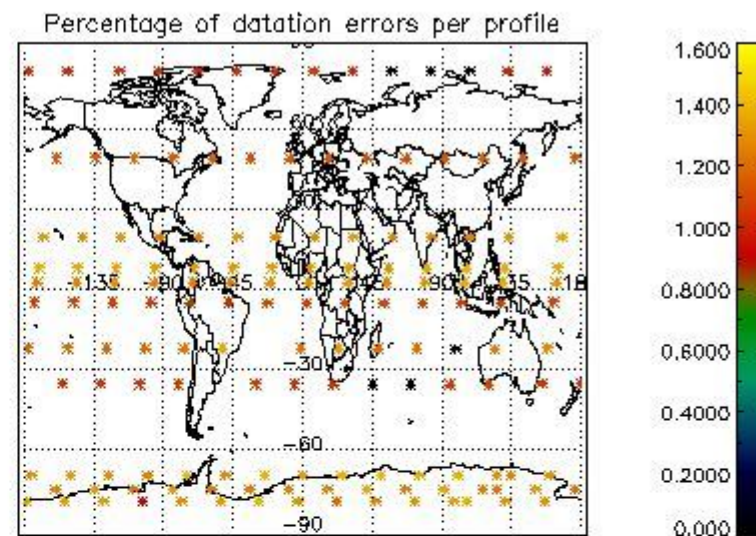
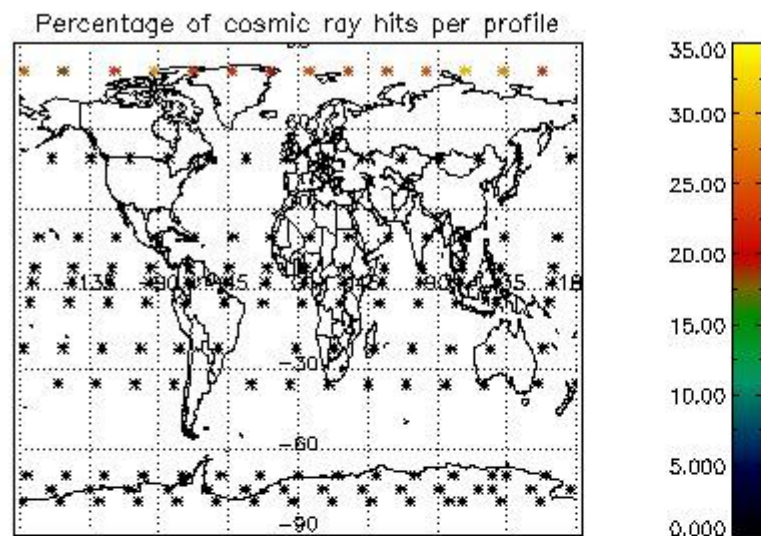


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



## 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.

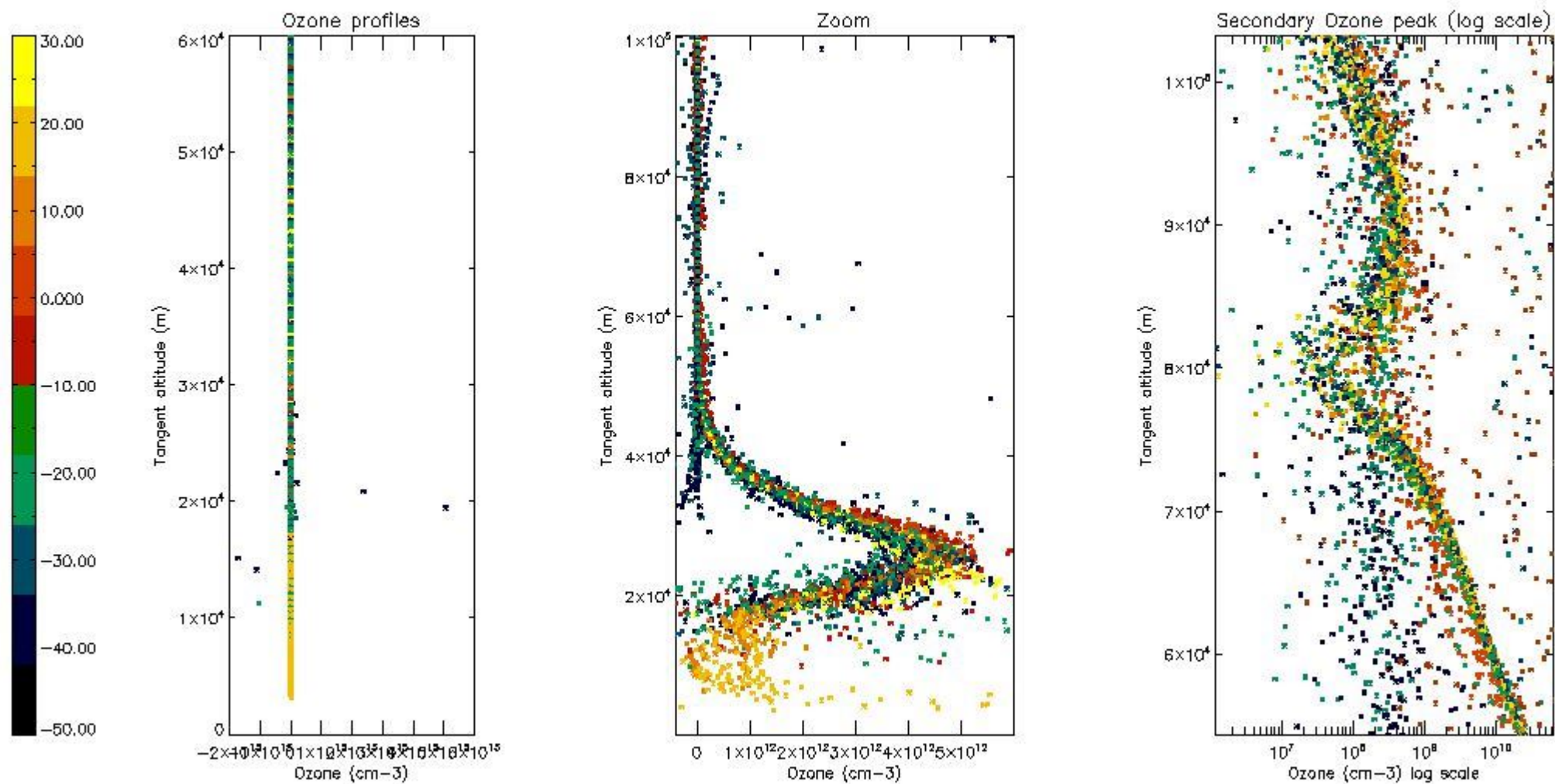
Criteria	% of total production
All STD	36
STD < 20	15



STD < 10	10
STD < 5	7

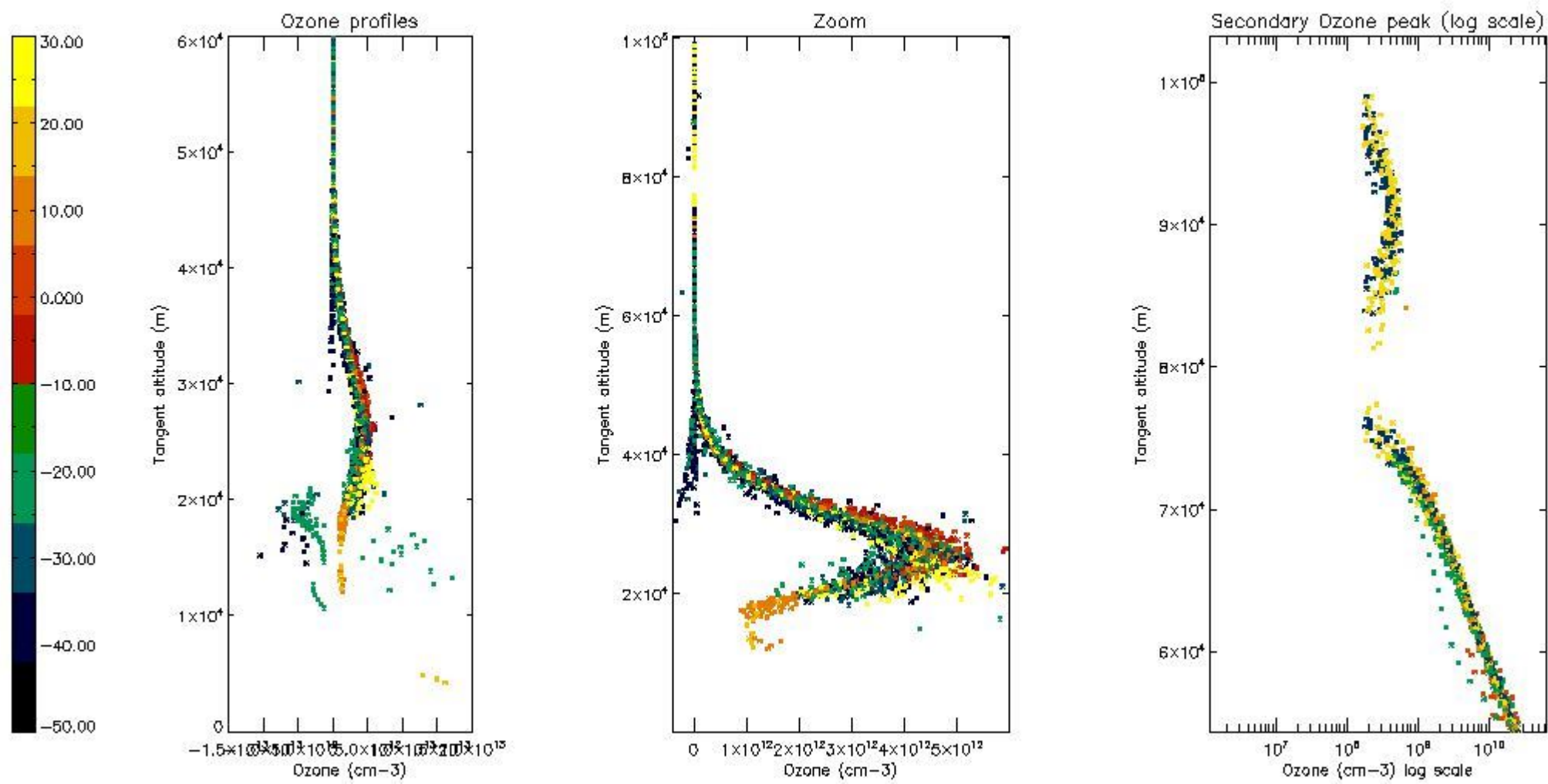
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



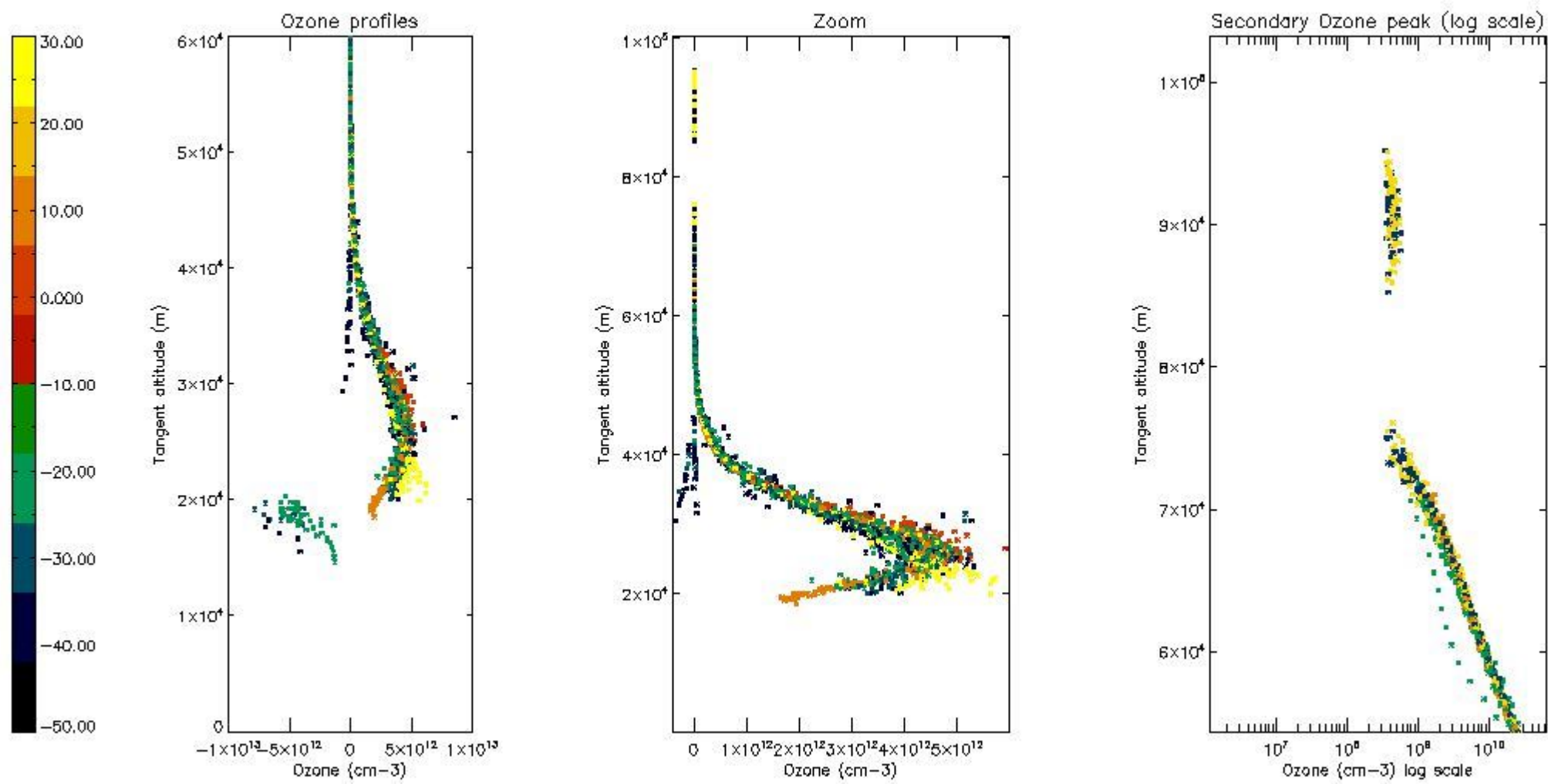
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



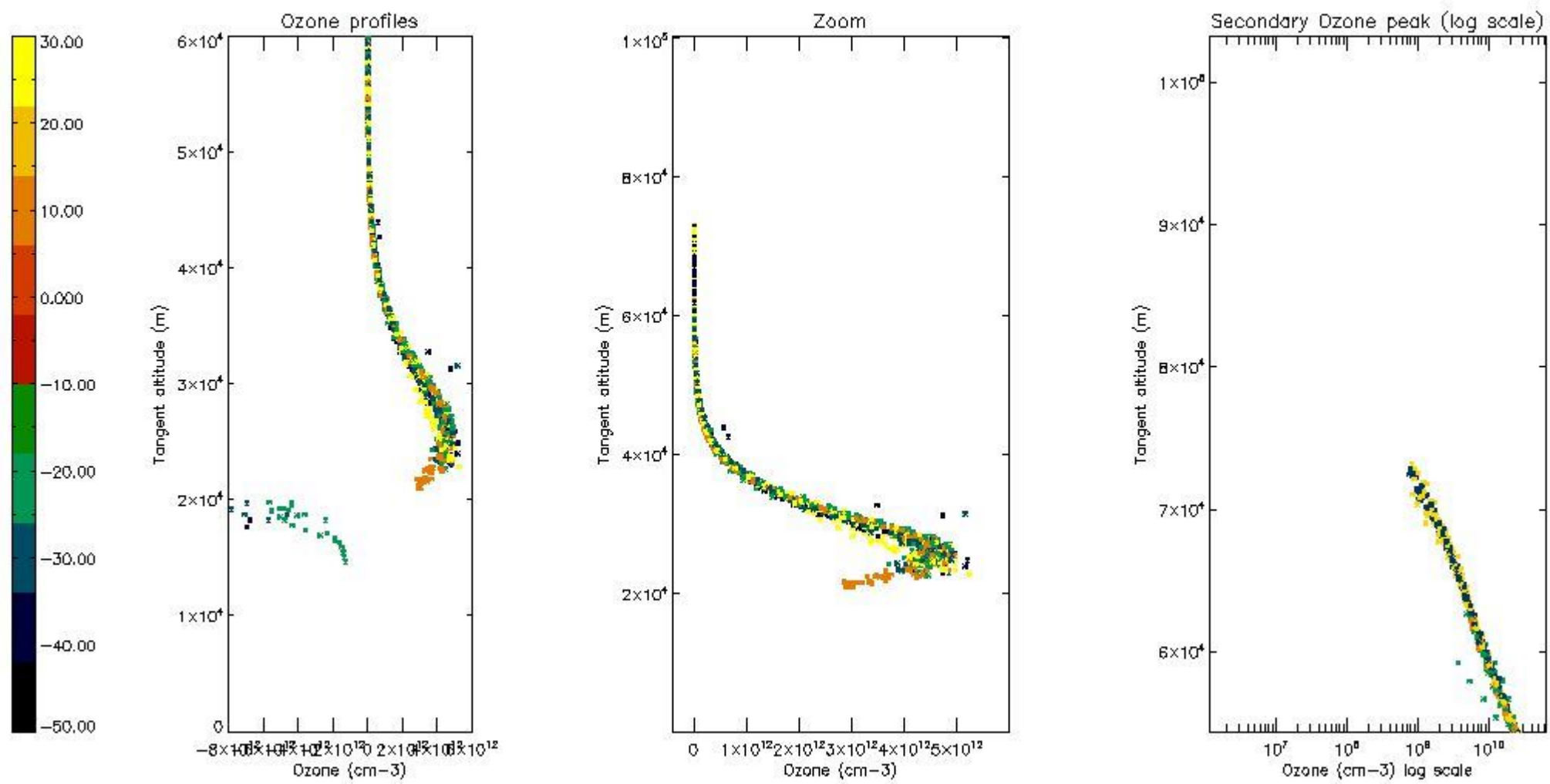
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



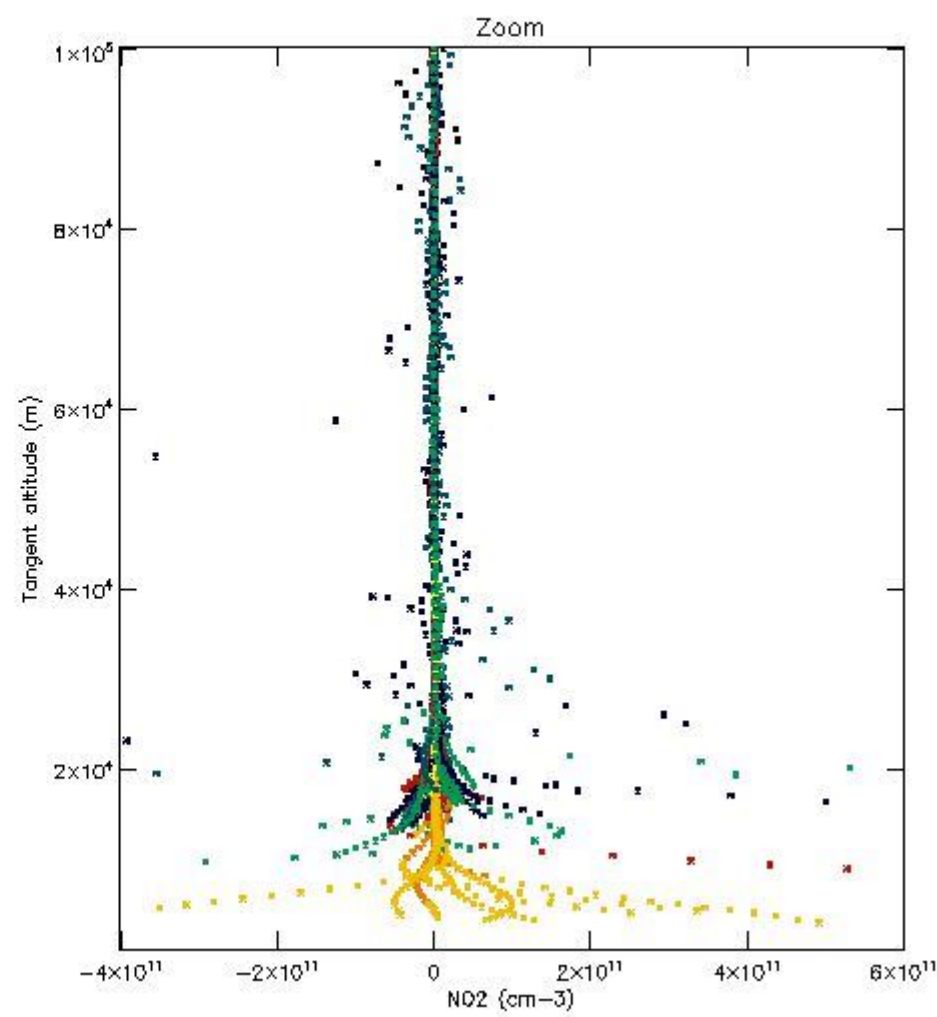
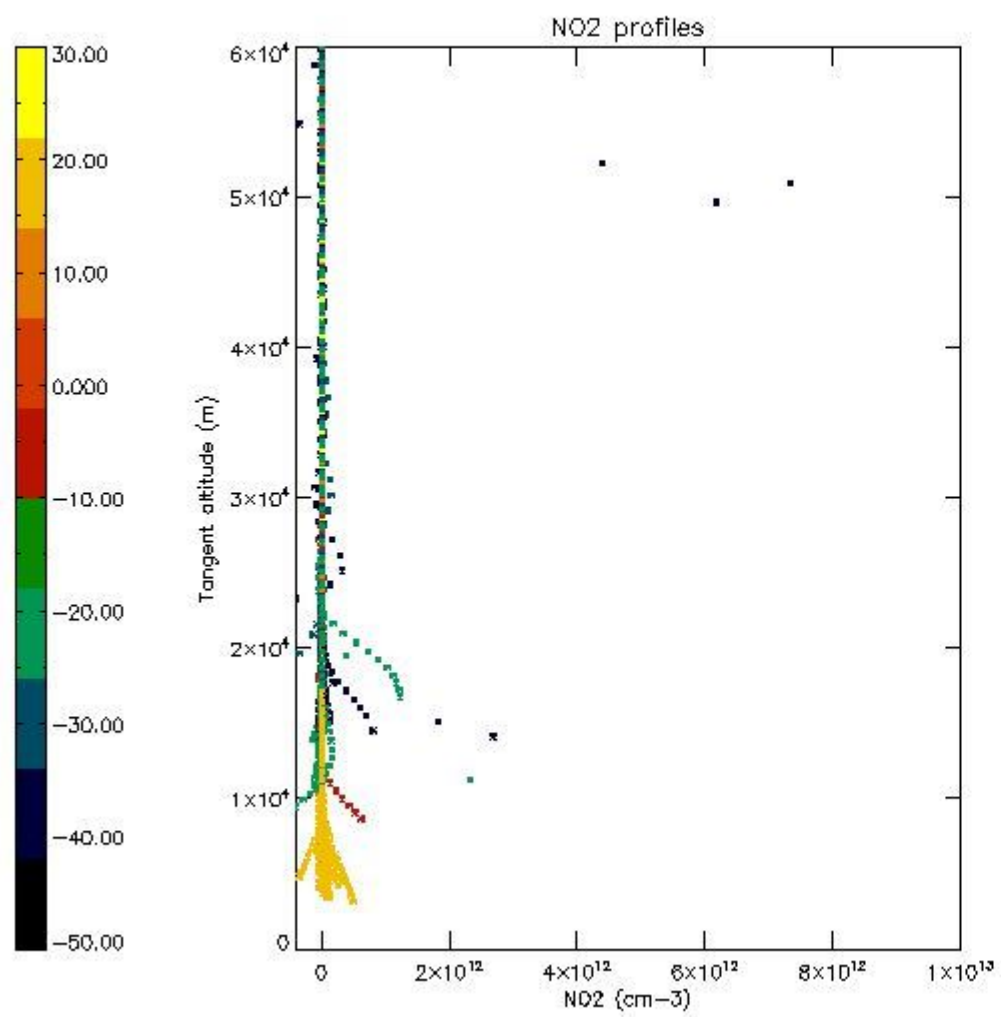
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



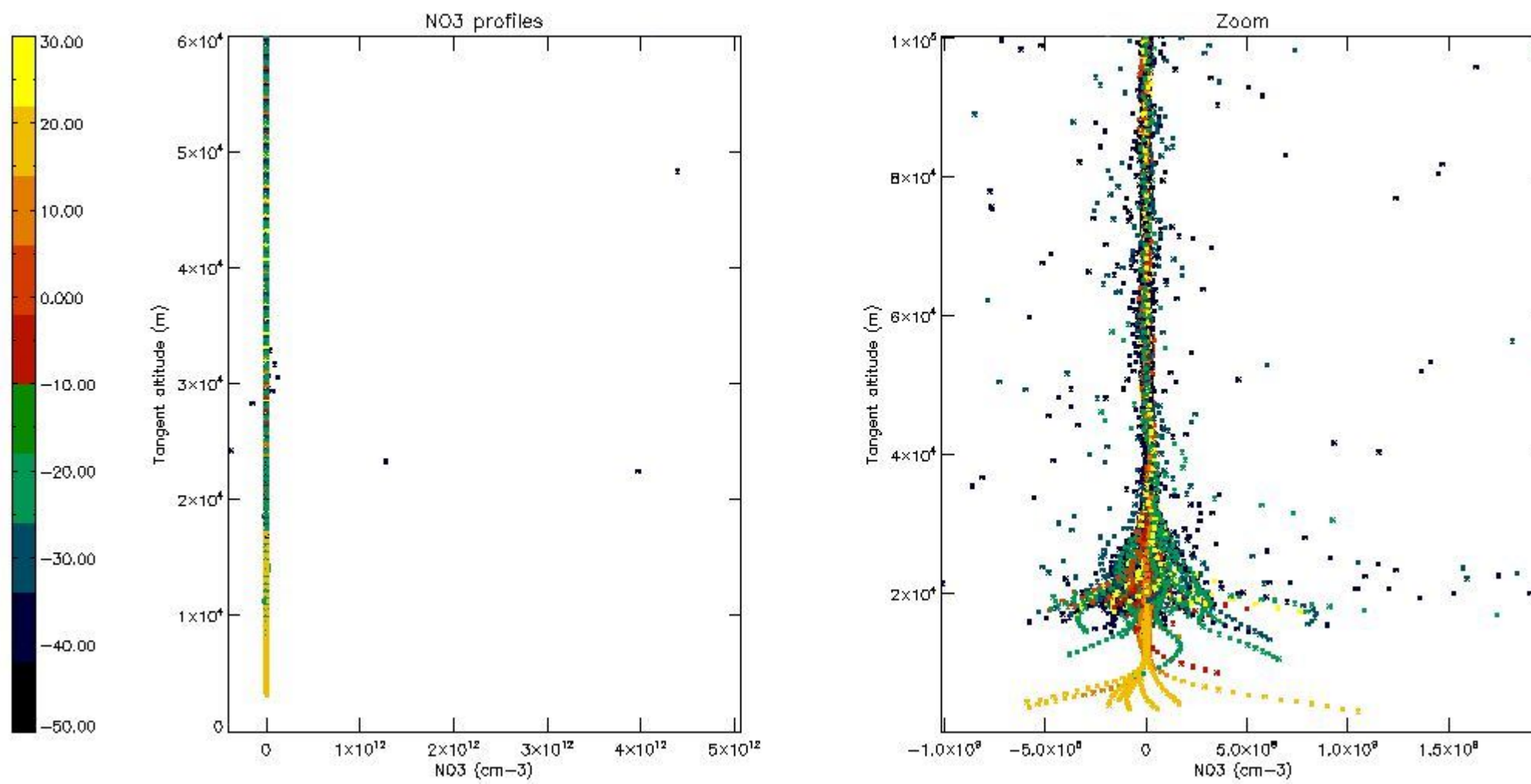
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

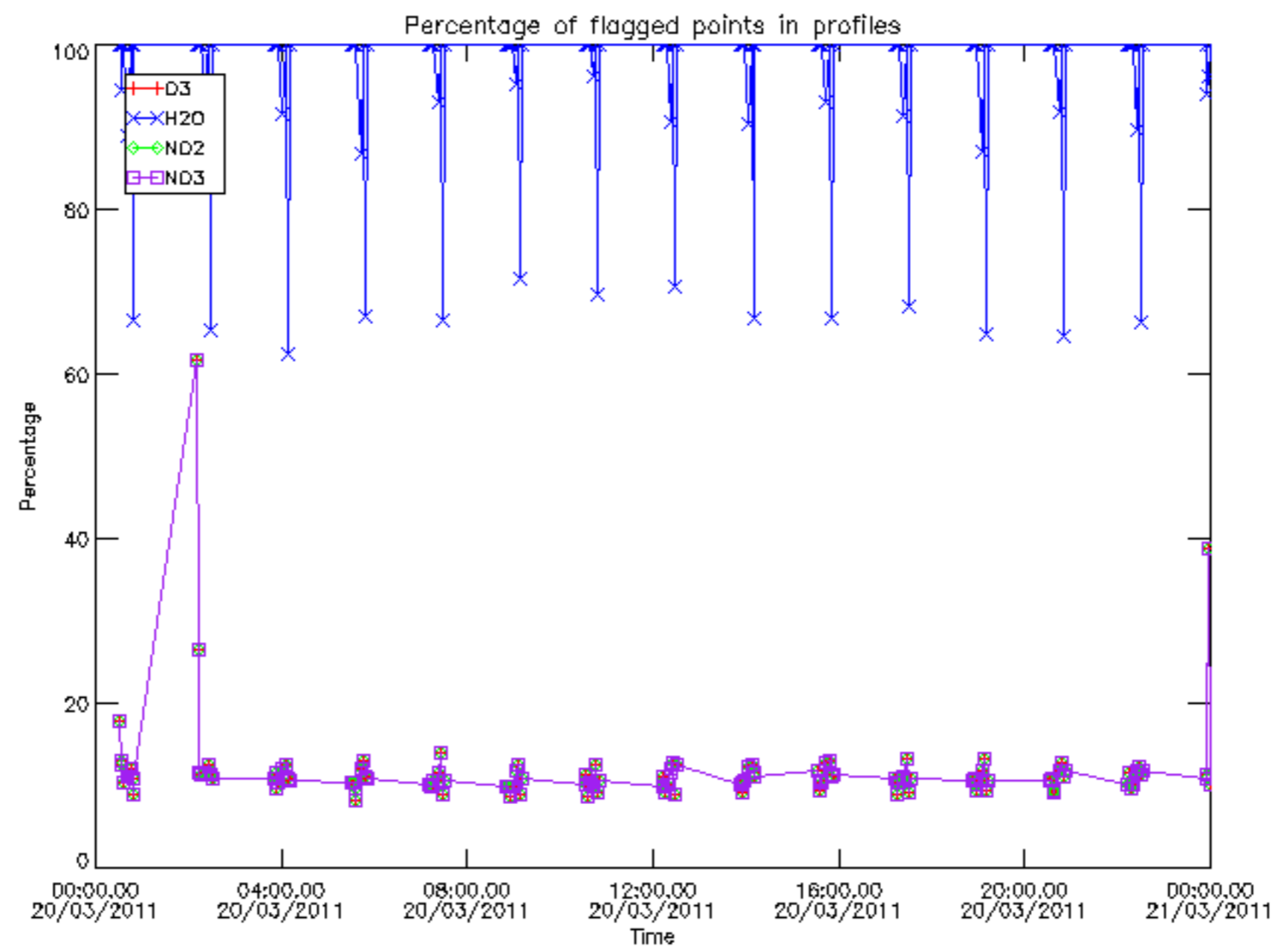
The colorbar represents the latitude.



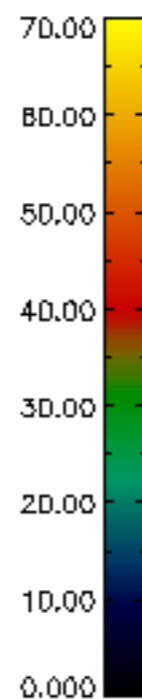
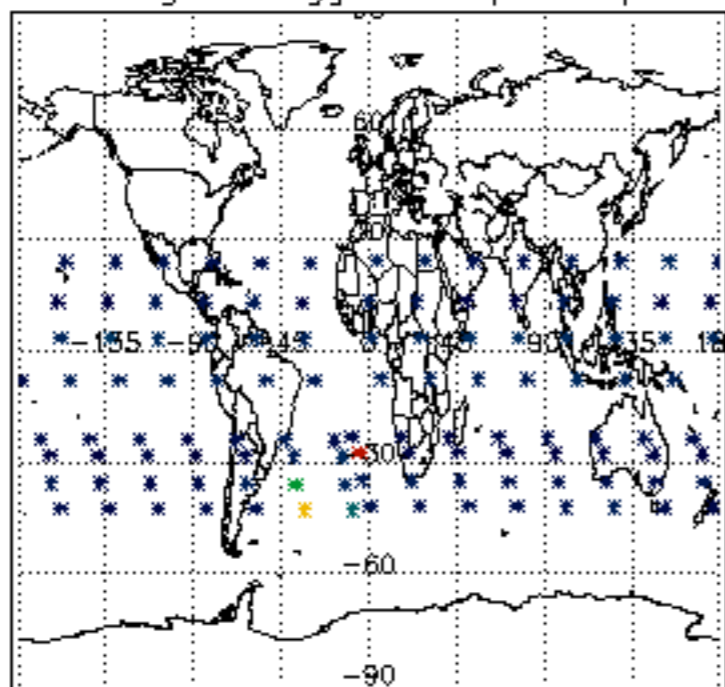
## 6. Auxiliary Data Files used for the production reported in section 2

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.

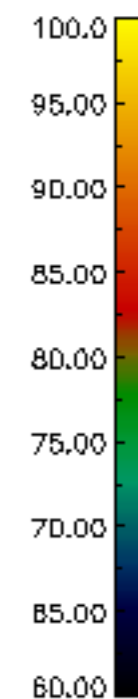
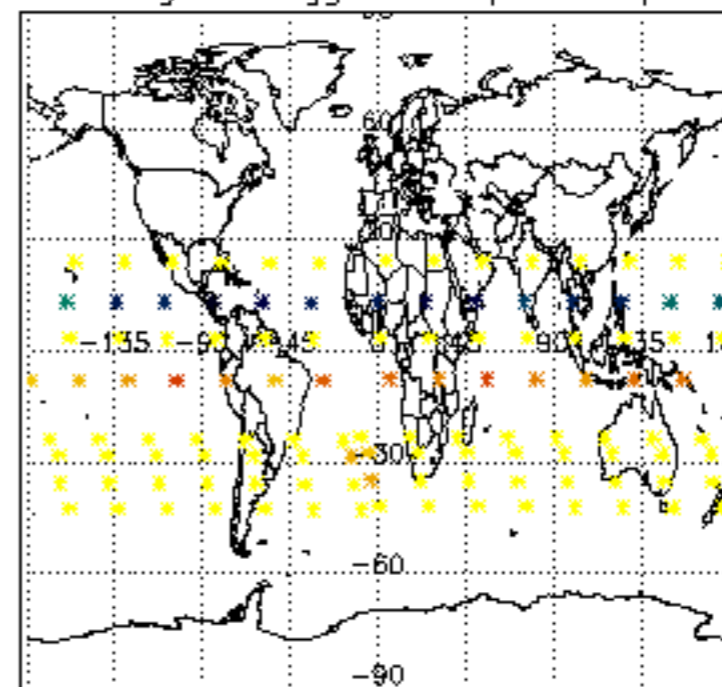
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	20-MAR-2011 00:07:40
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-MAR-2011 00:07:40
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-MAR-2011 00:07:40



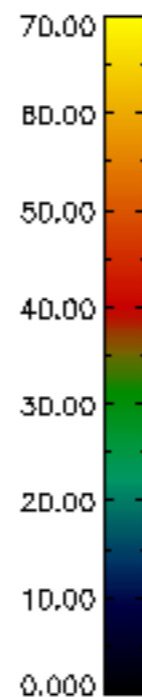
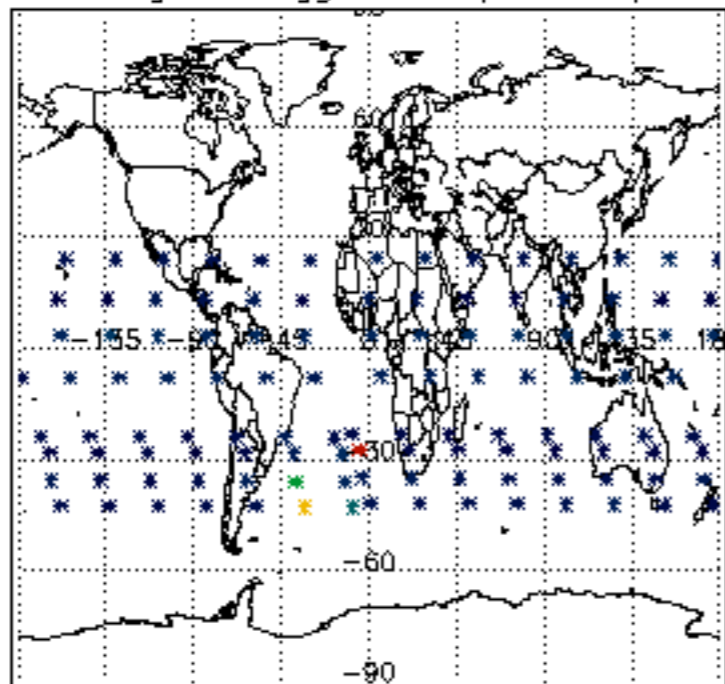
Percentage of flagged data per D3 profile



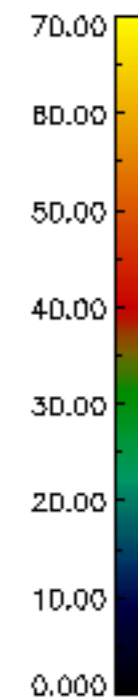
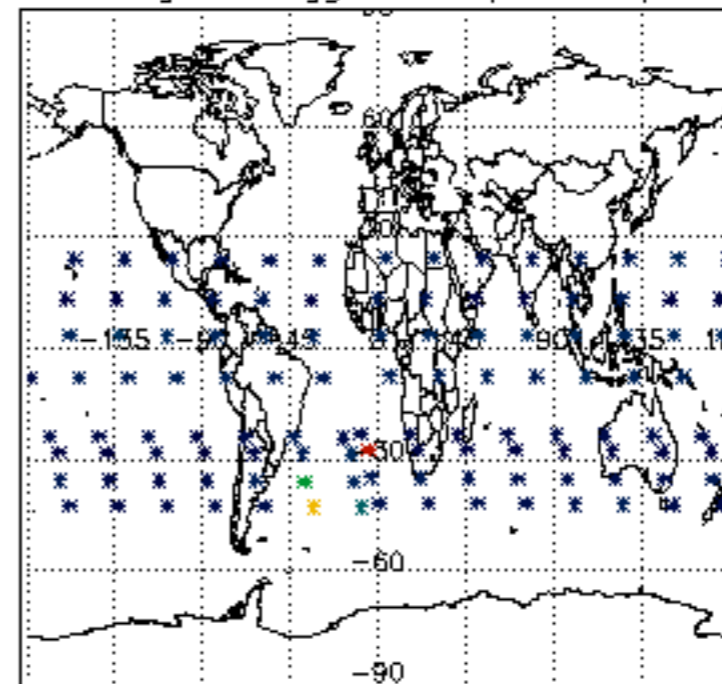
Percentage of flagged data per H2O profile



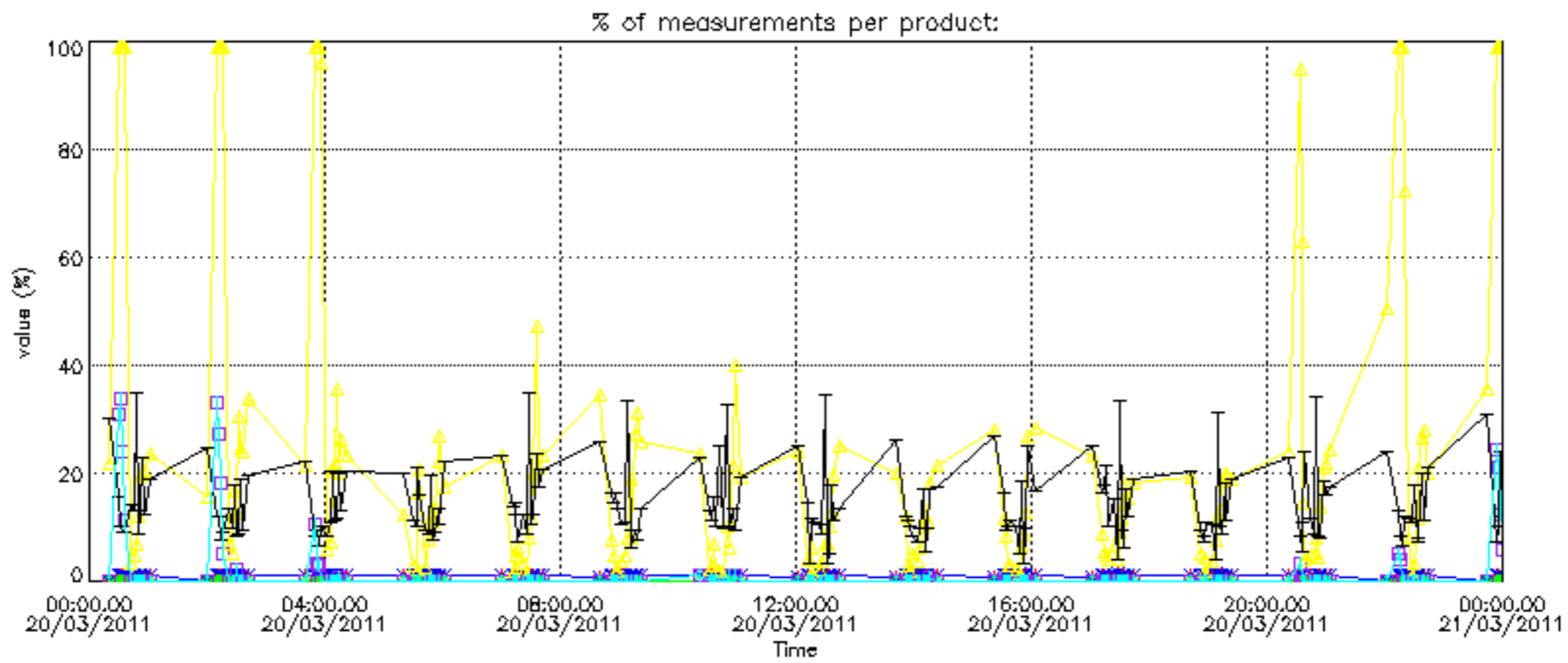
Percentage of flagged data per NO2 profile

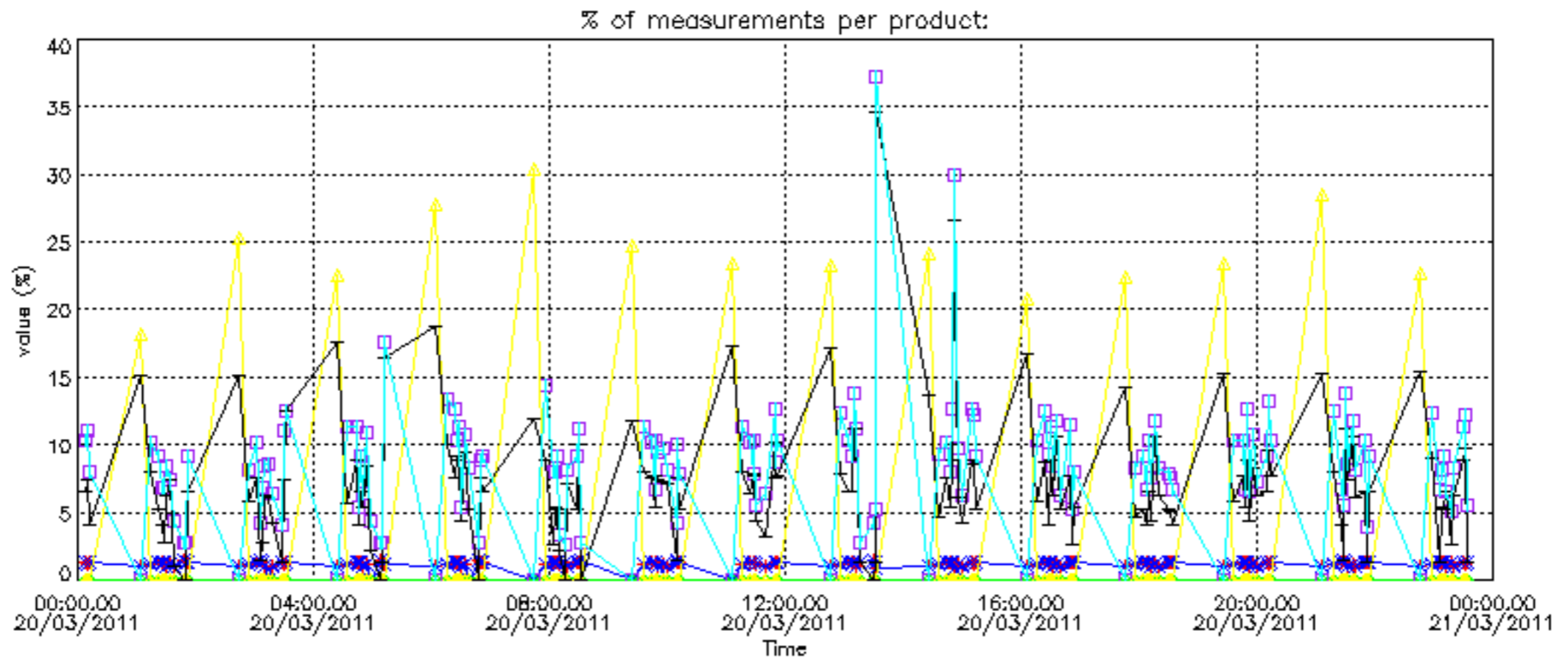


Percentage of flagged data per NO3 profile

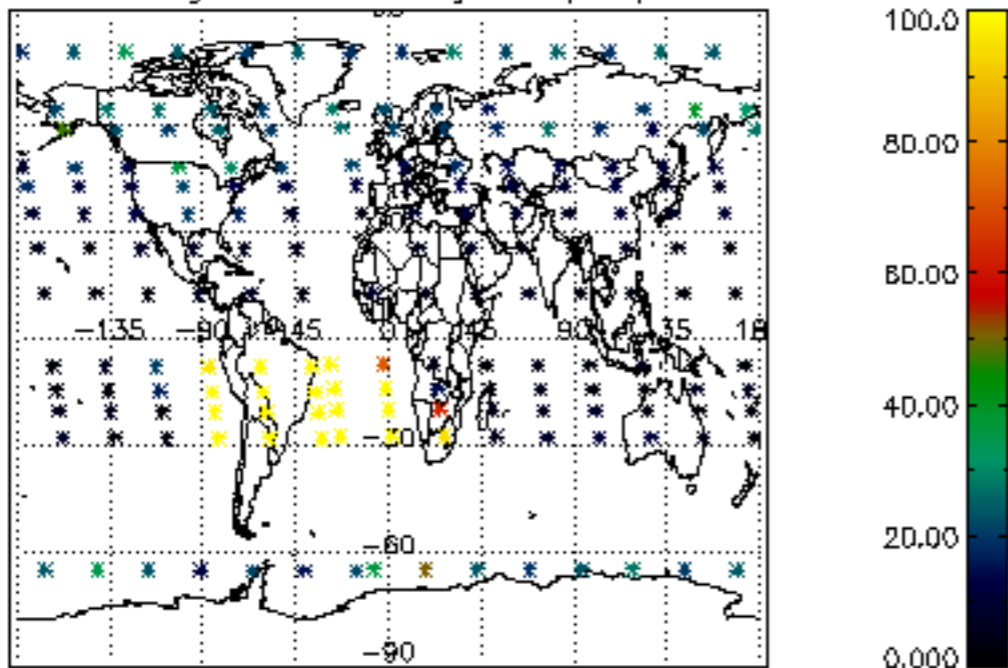




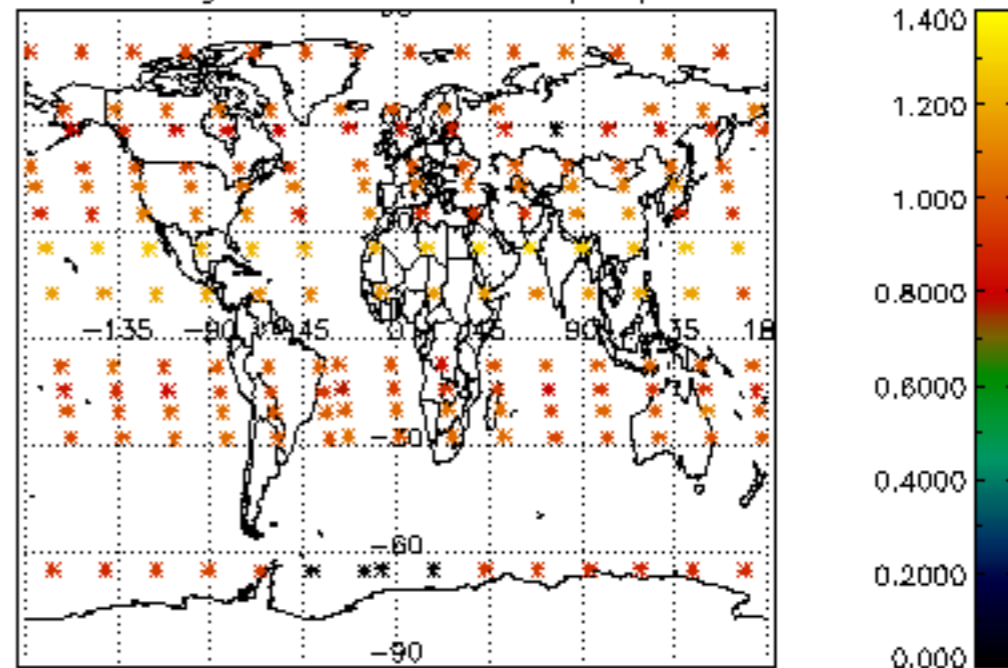




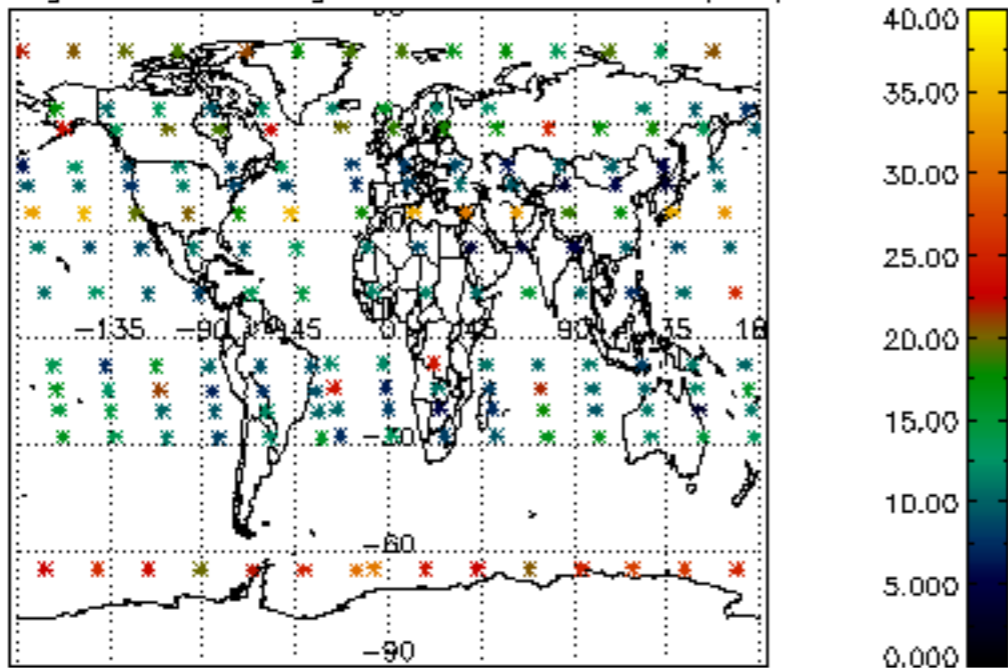
Percentage of cosmic ray hits per profile



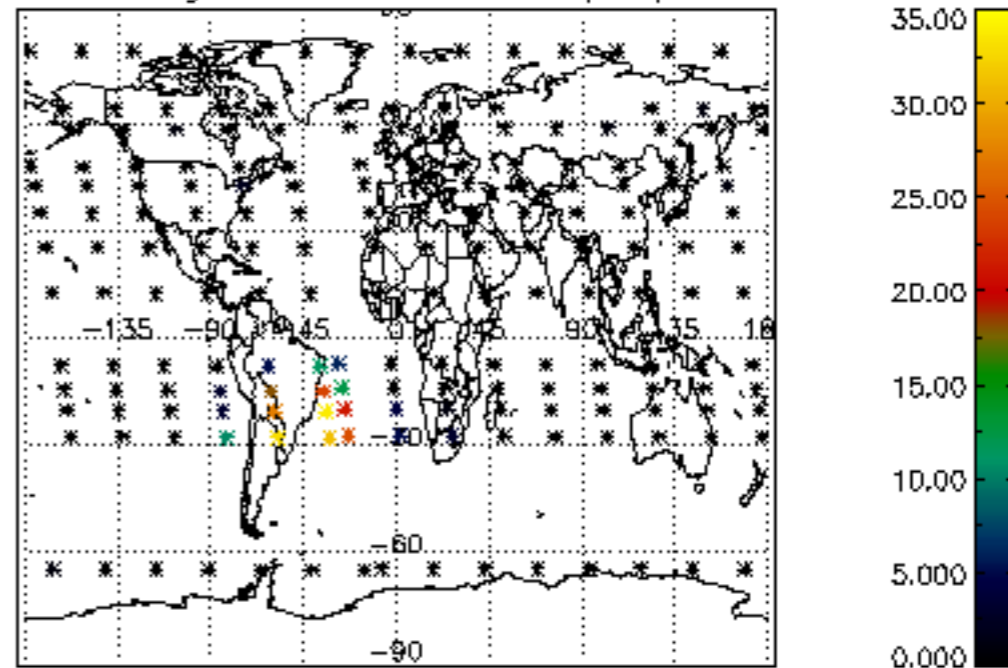
Percentage of datation errors per profile



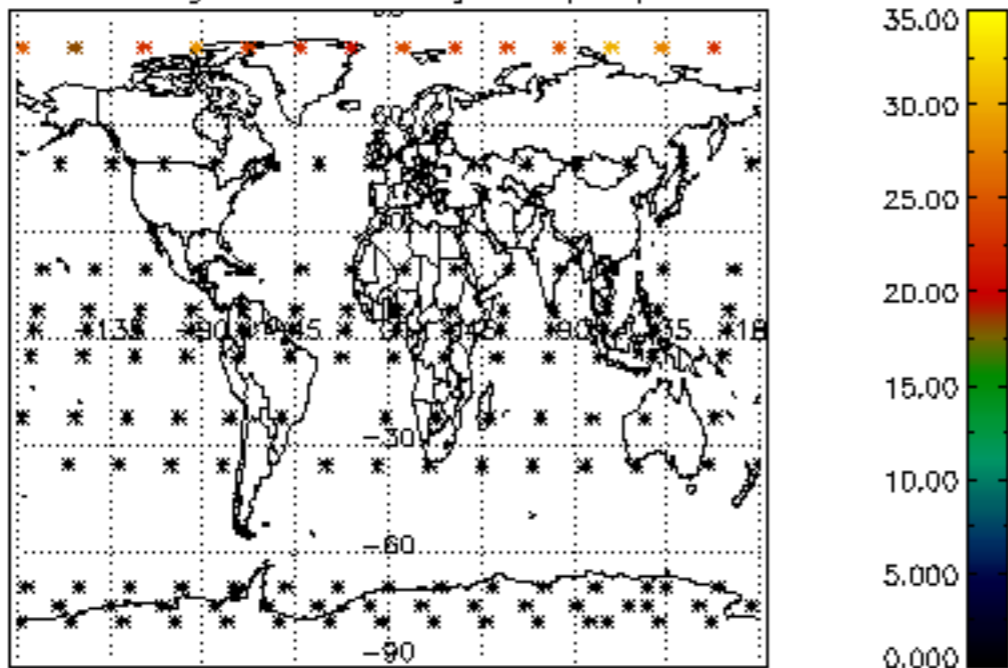
Percentage of star falling outside central band per profile



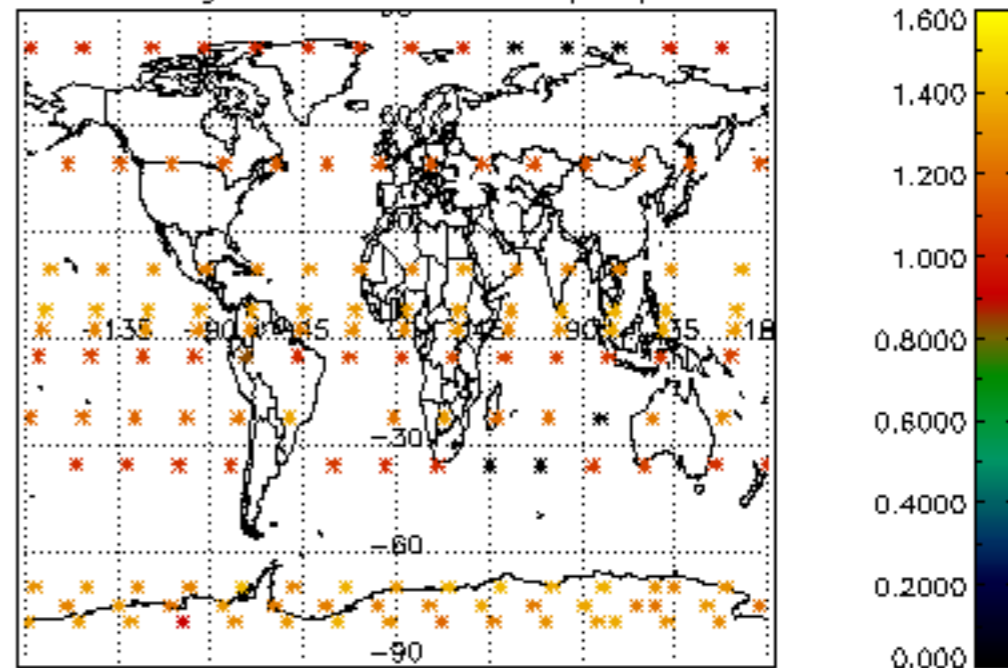
Percentage of saturation errors per profile



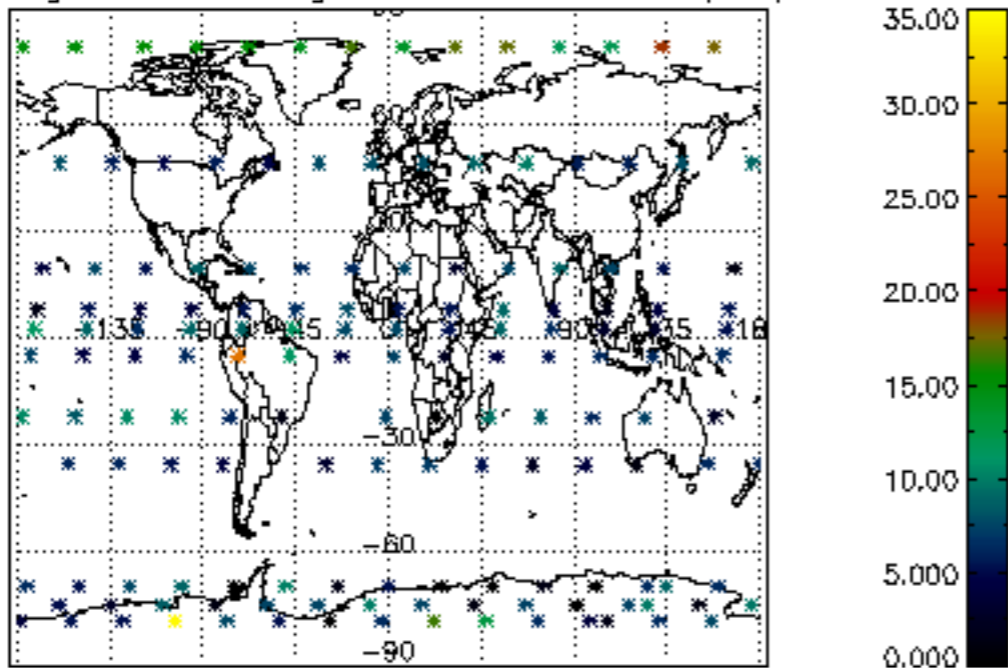
Percentage of cosmic ray hits per profile



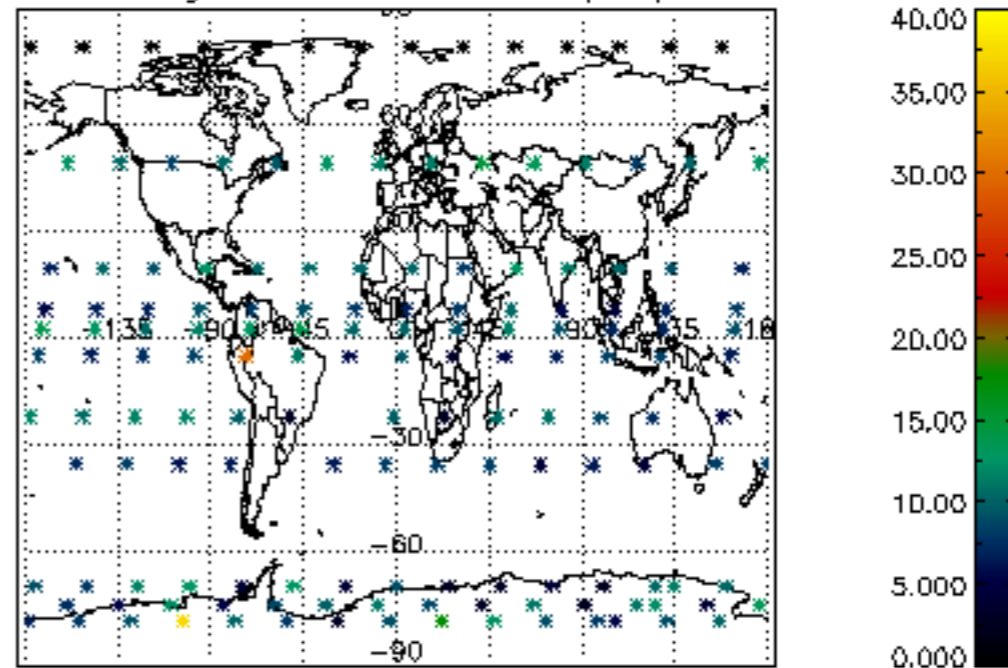
Percentage of datation errors per profile

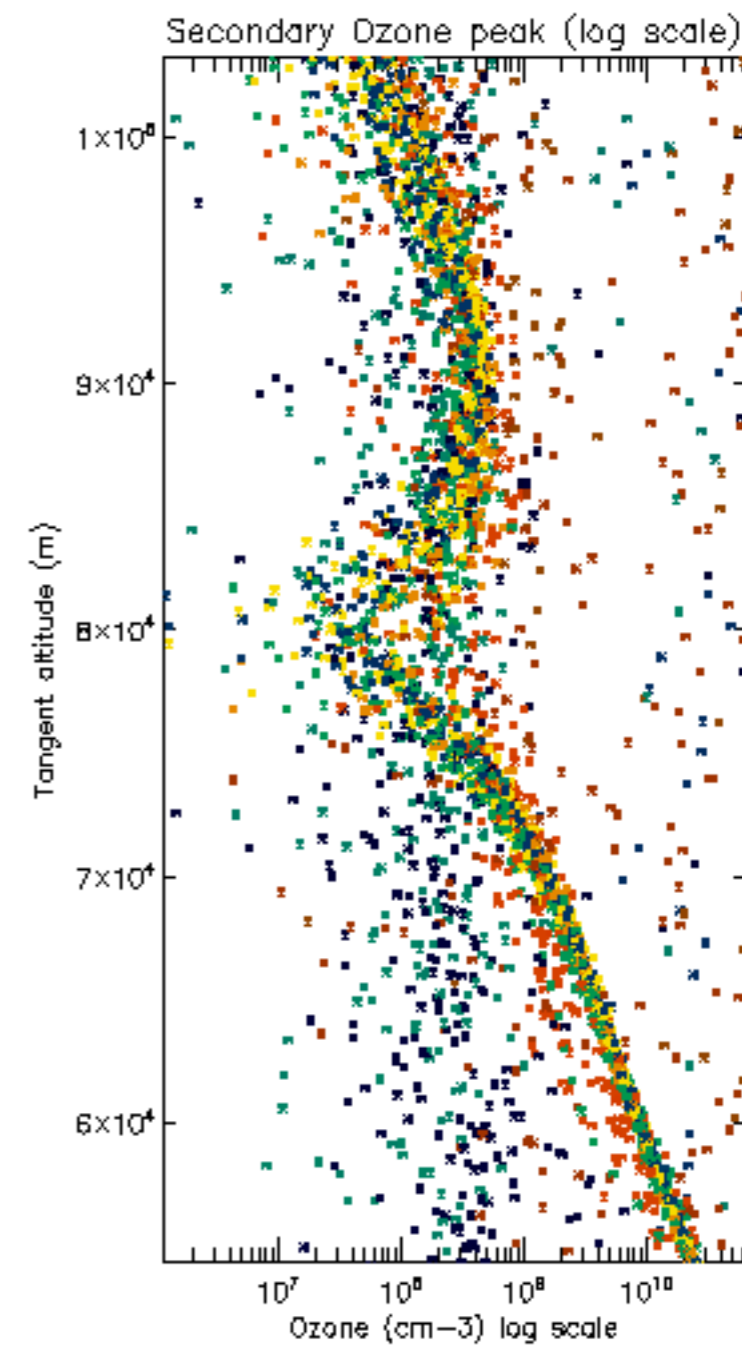
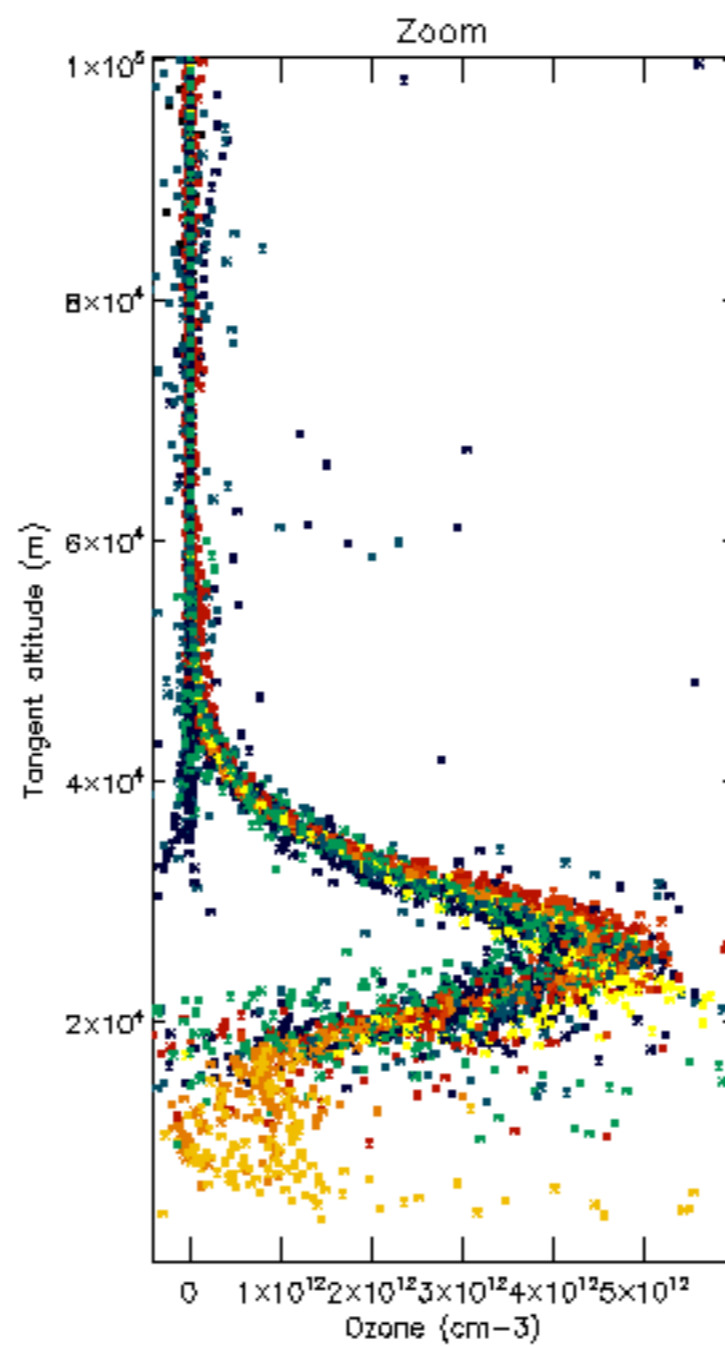
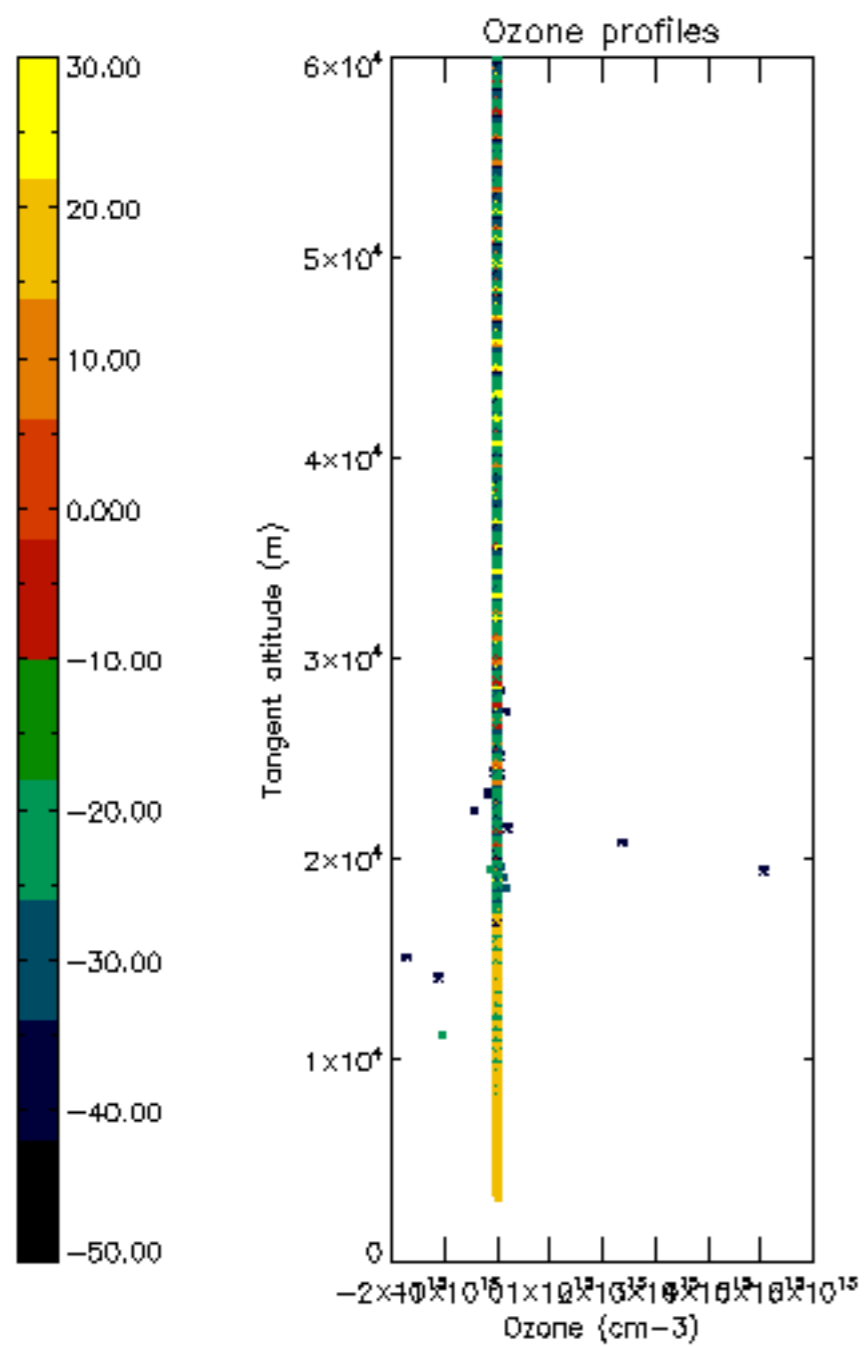


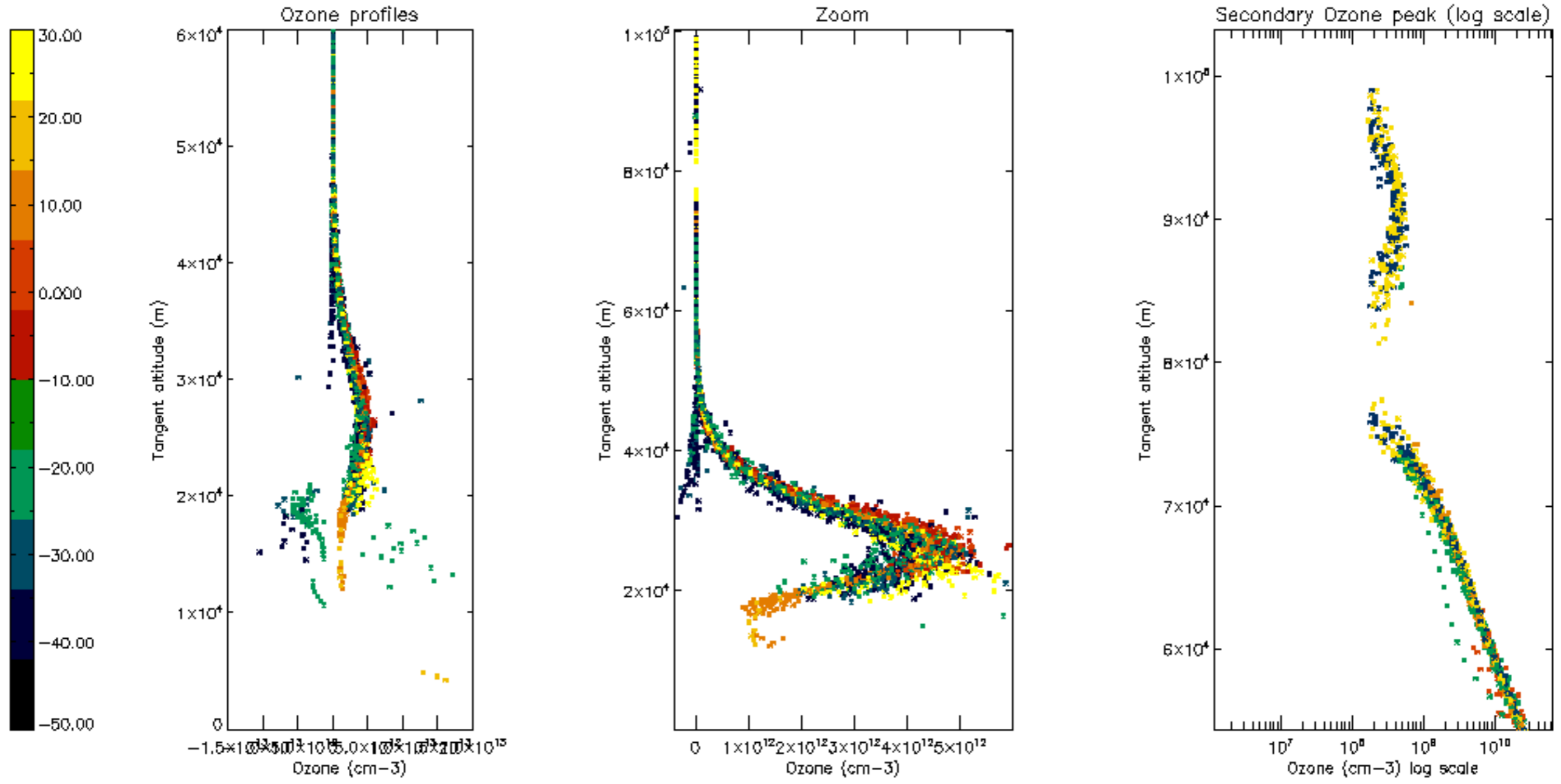
Percentage of star falling outside central band per profile

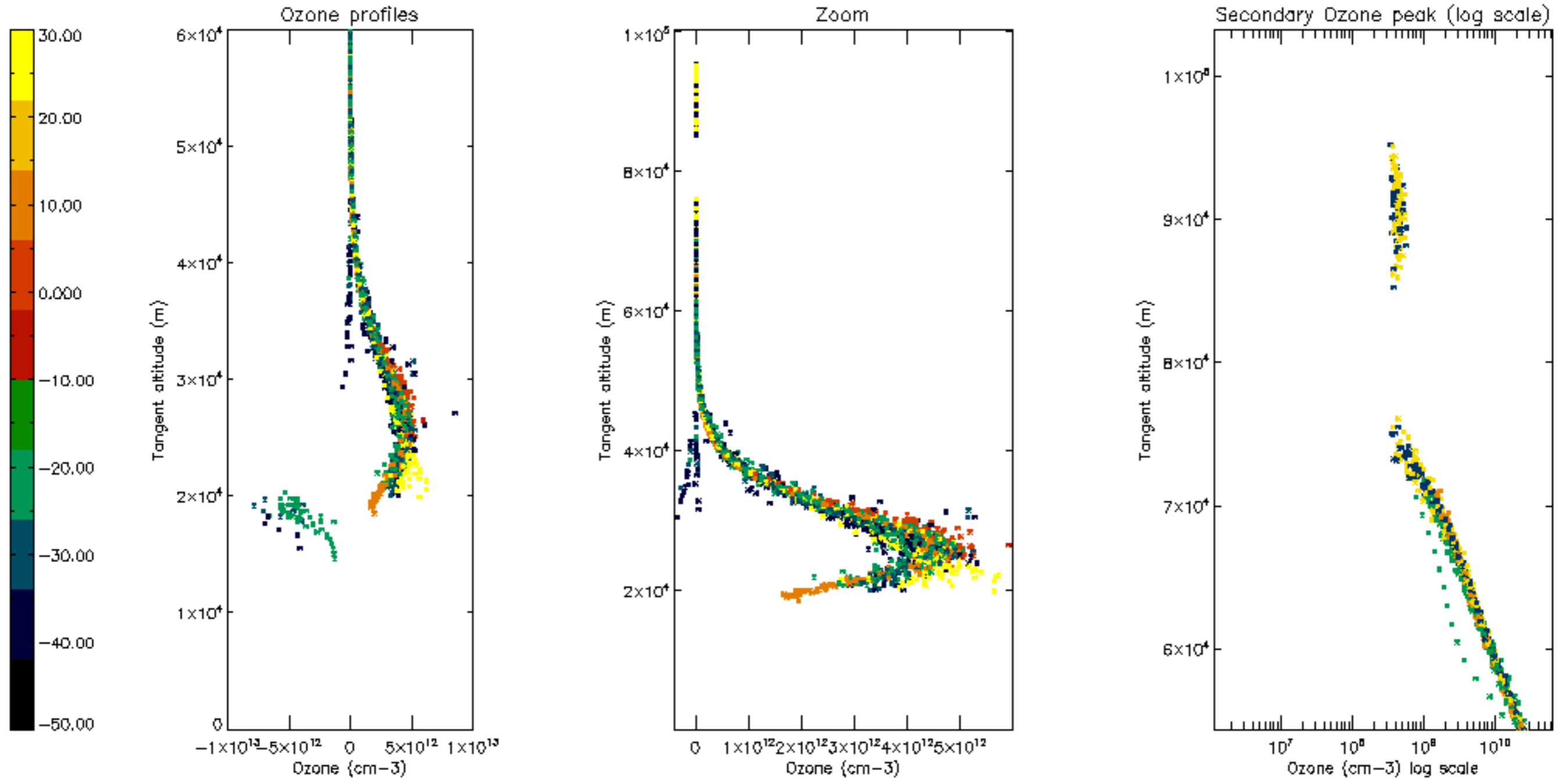


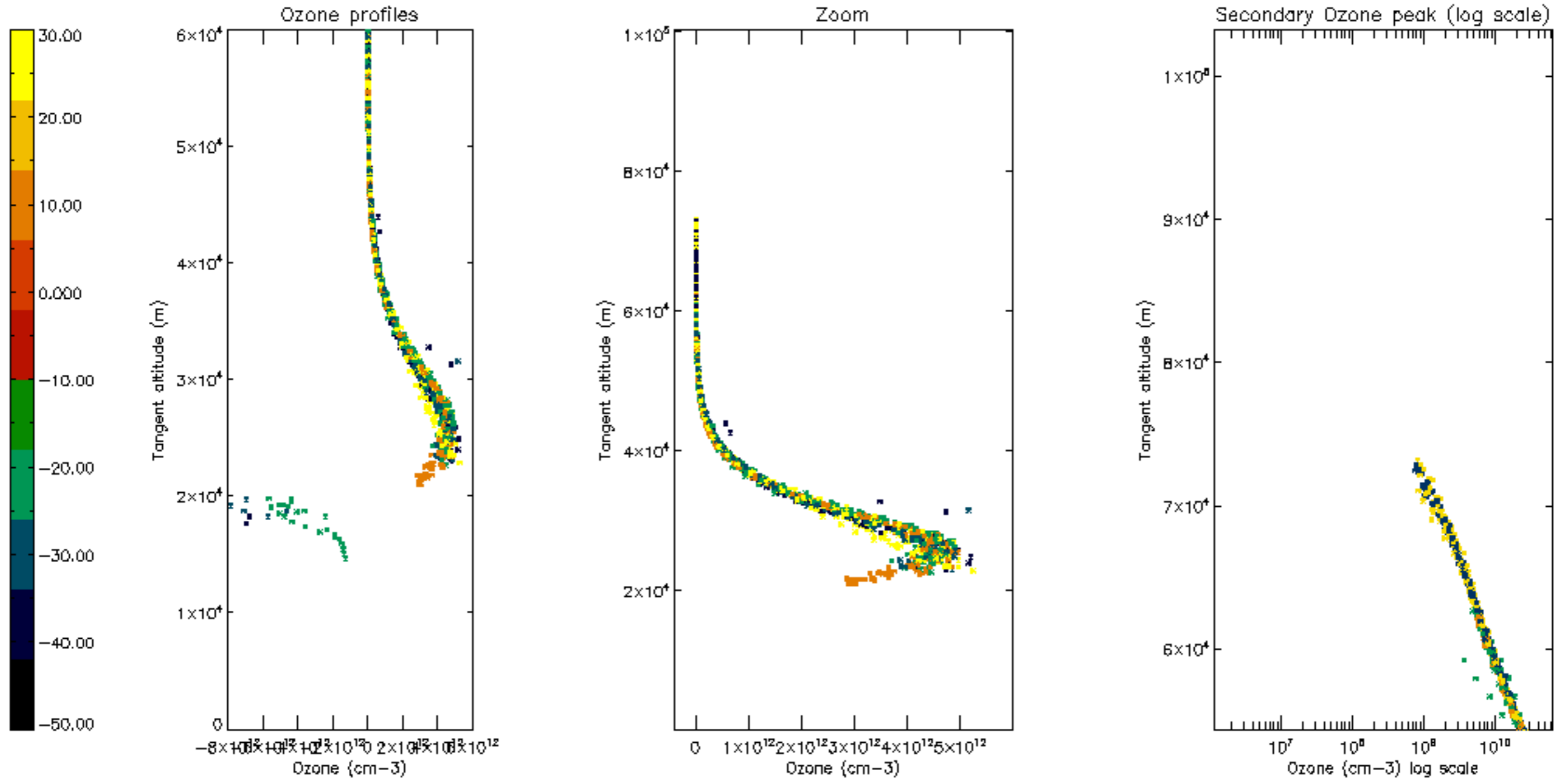
Percentage of saturation errors per profile



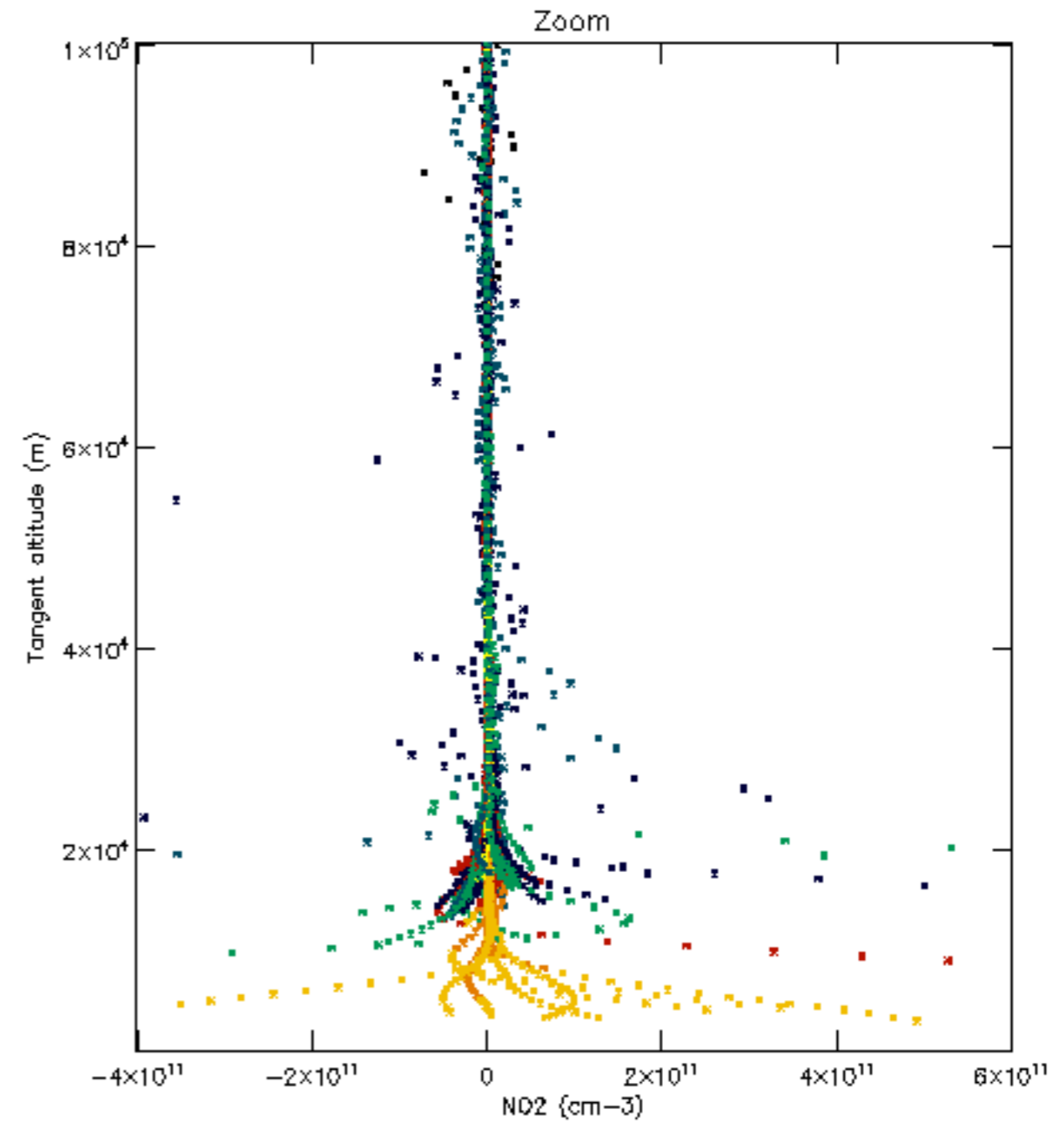
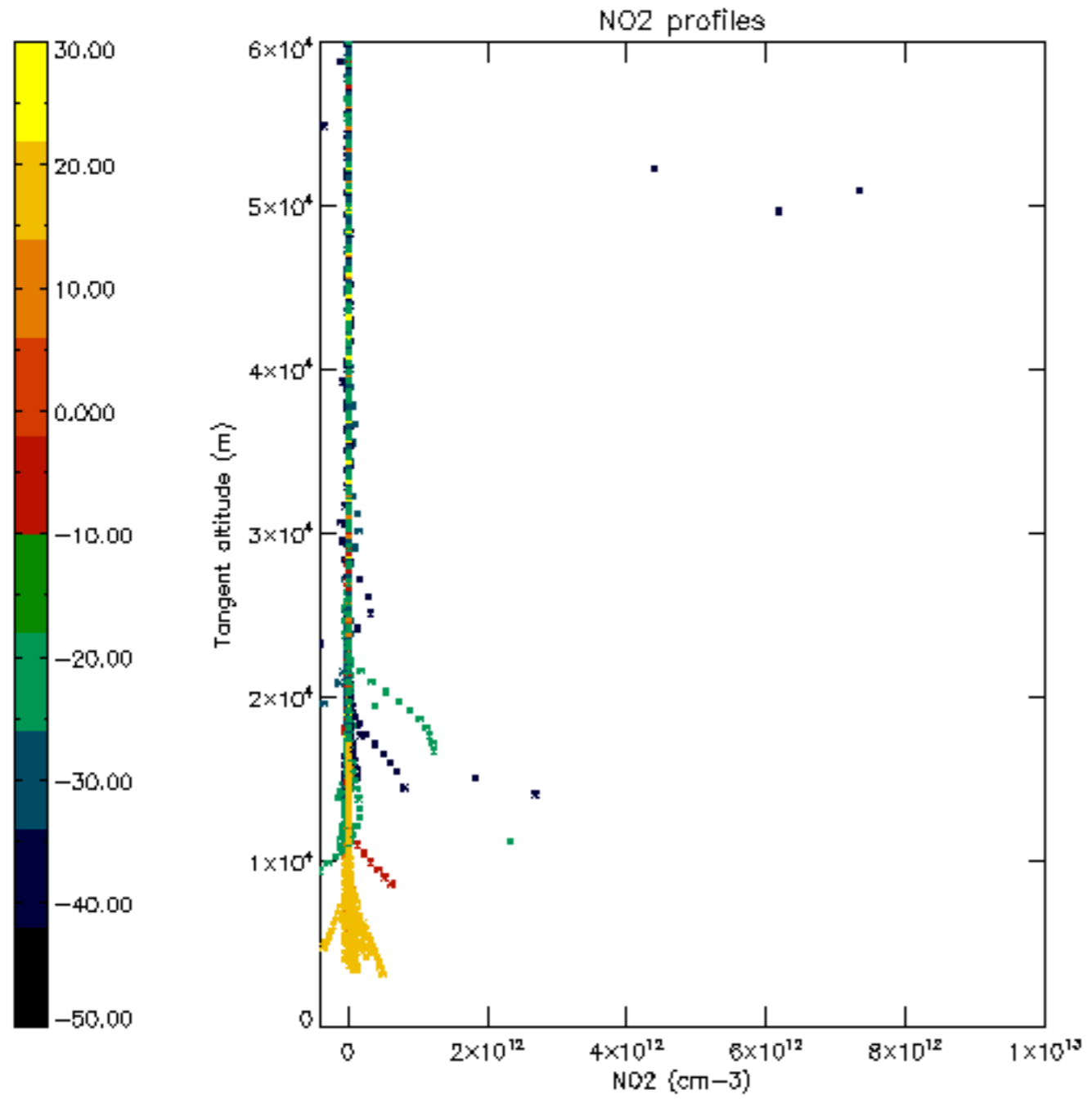


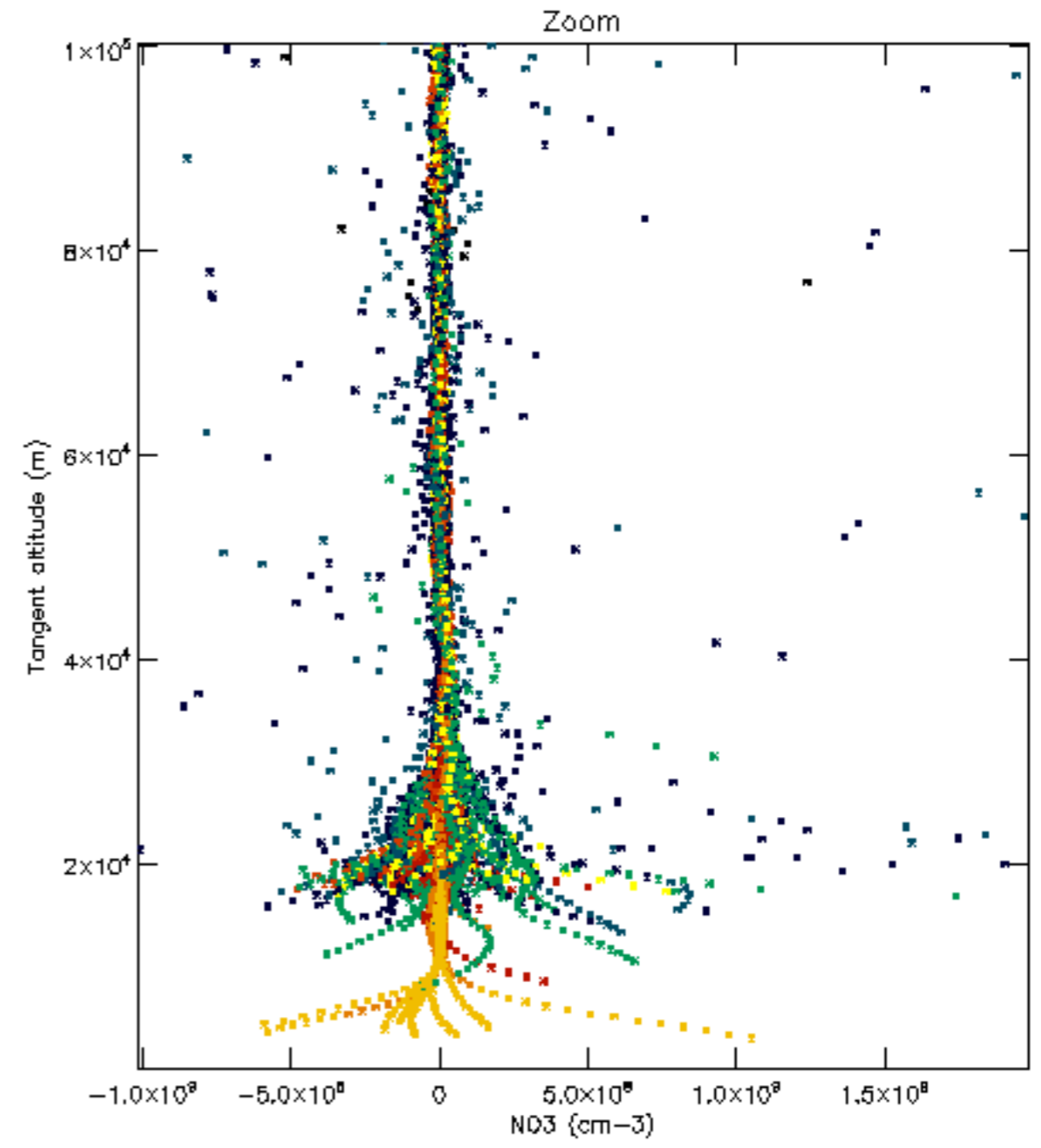
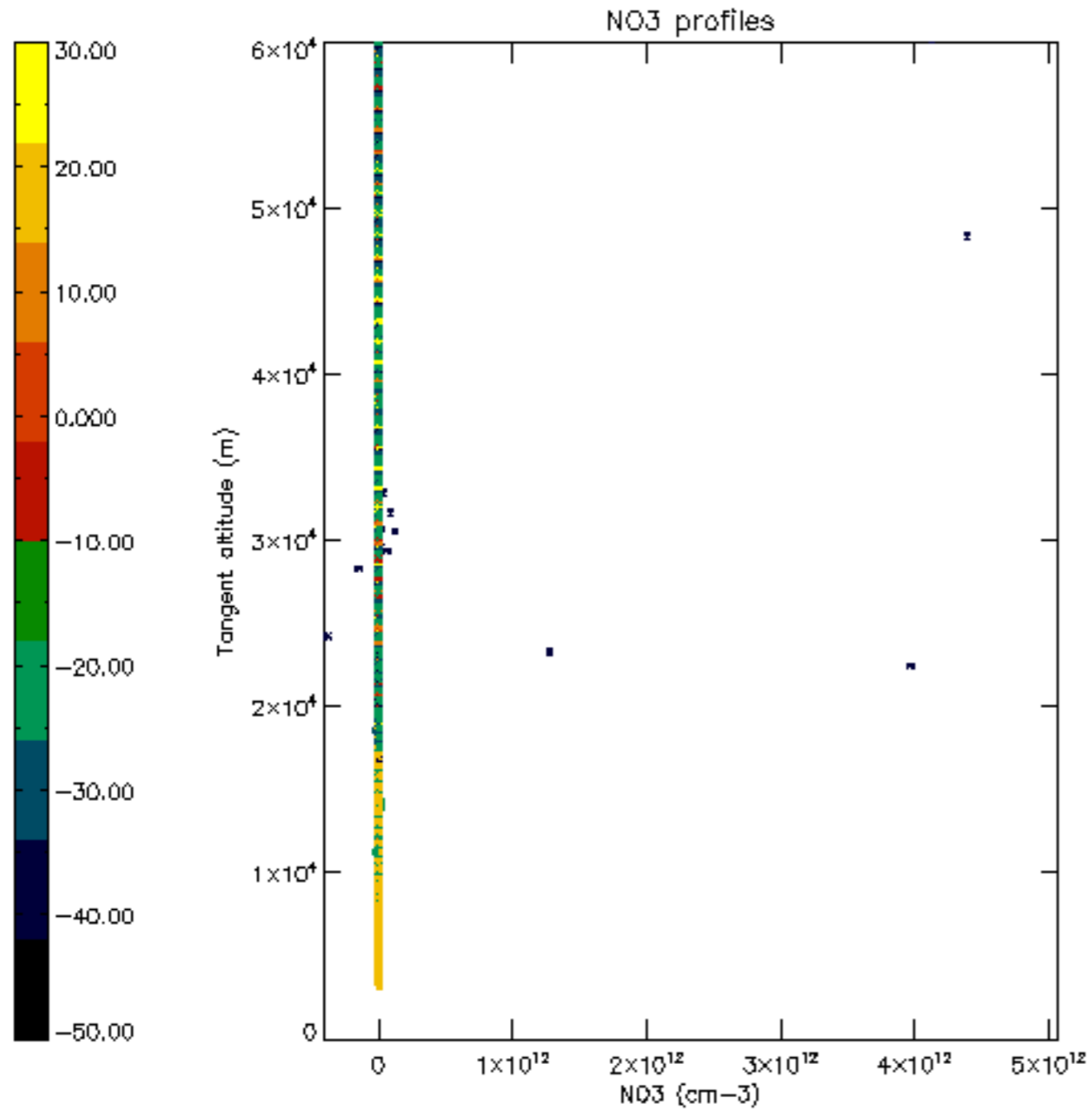


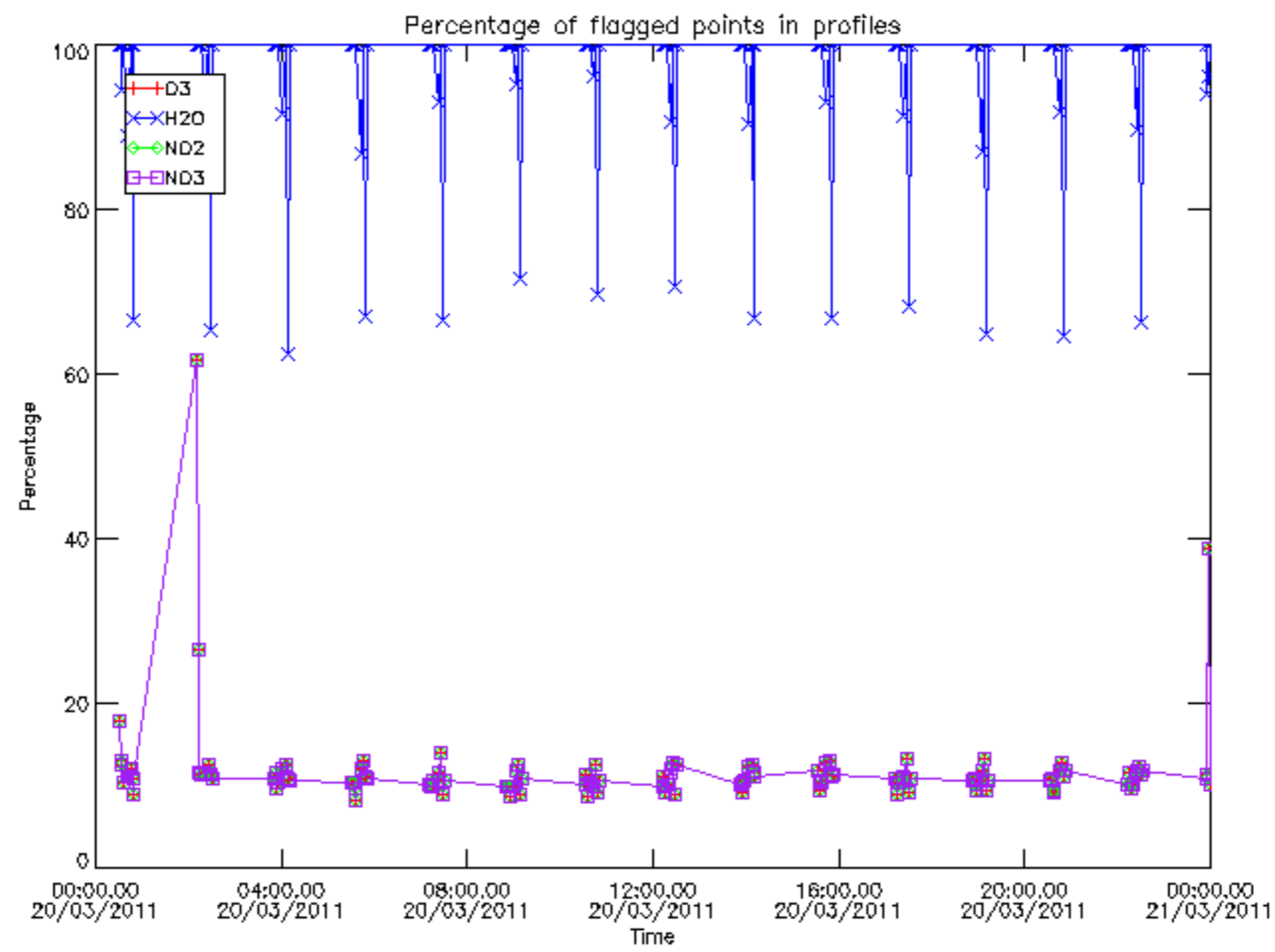




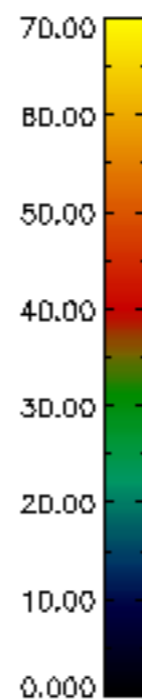
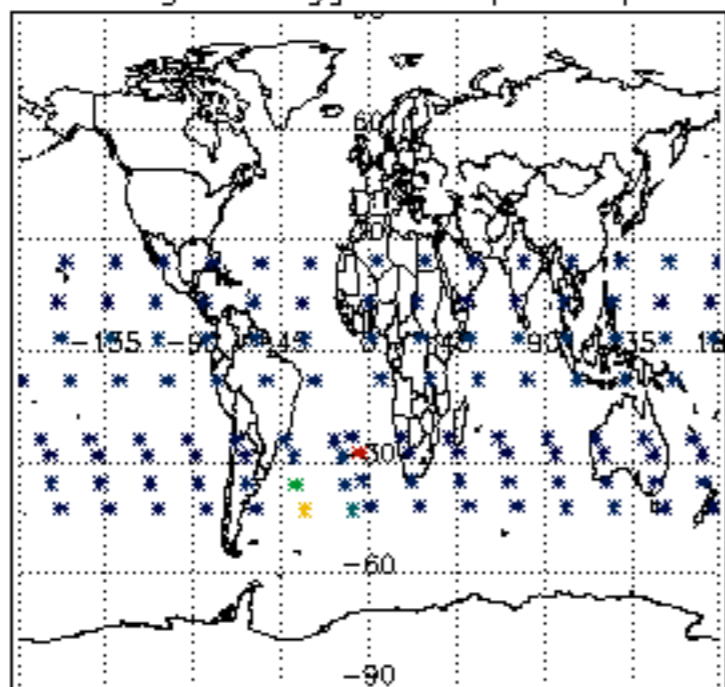




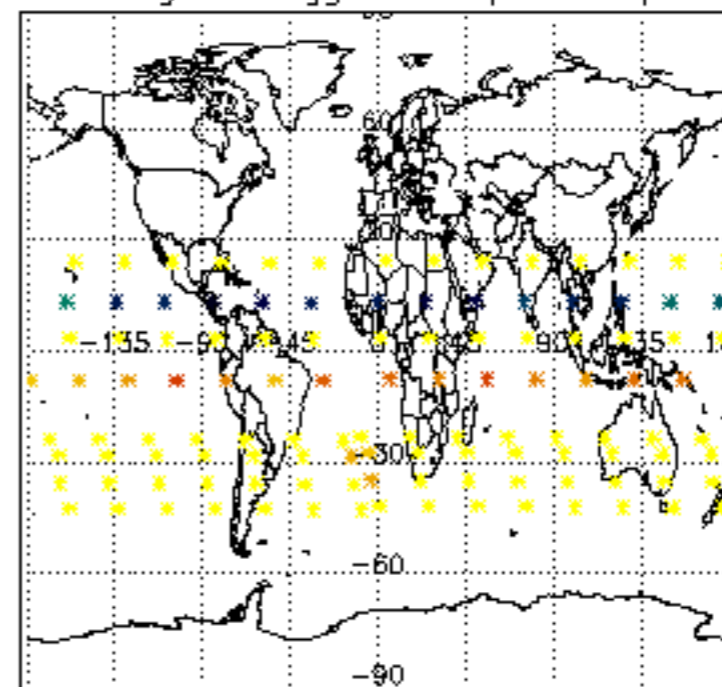




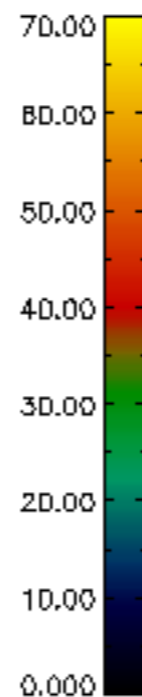
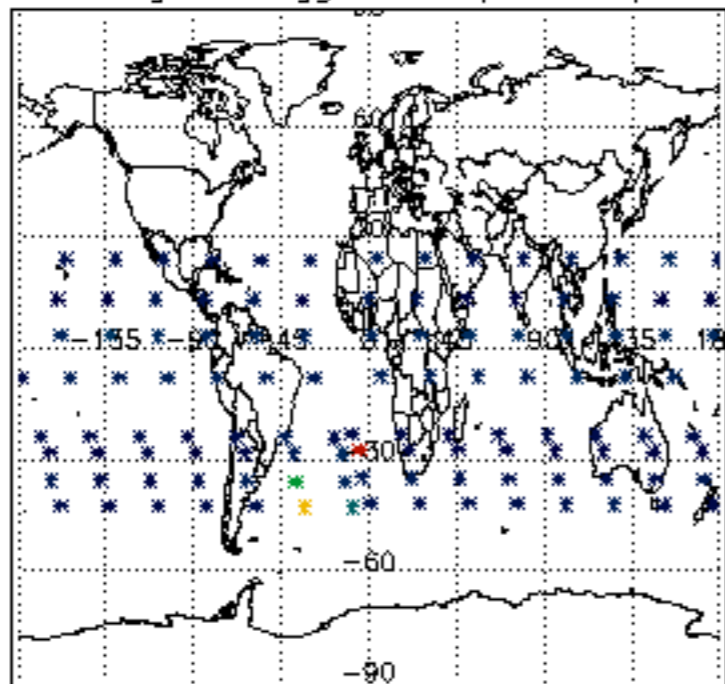
Percentage of flagged data per D3 profile



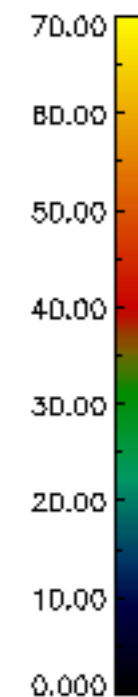
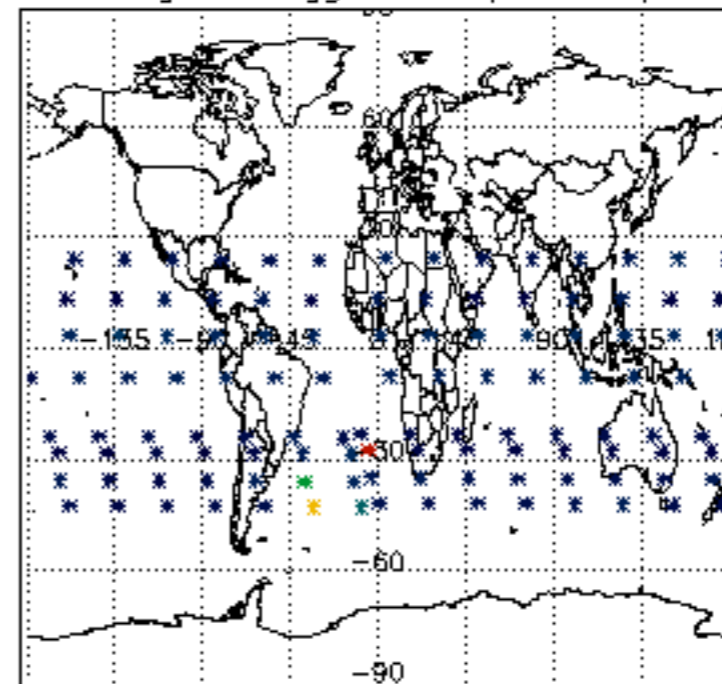
Percentage of flagged data per H2O profile

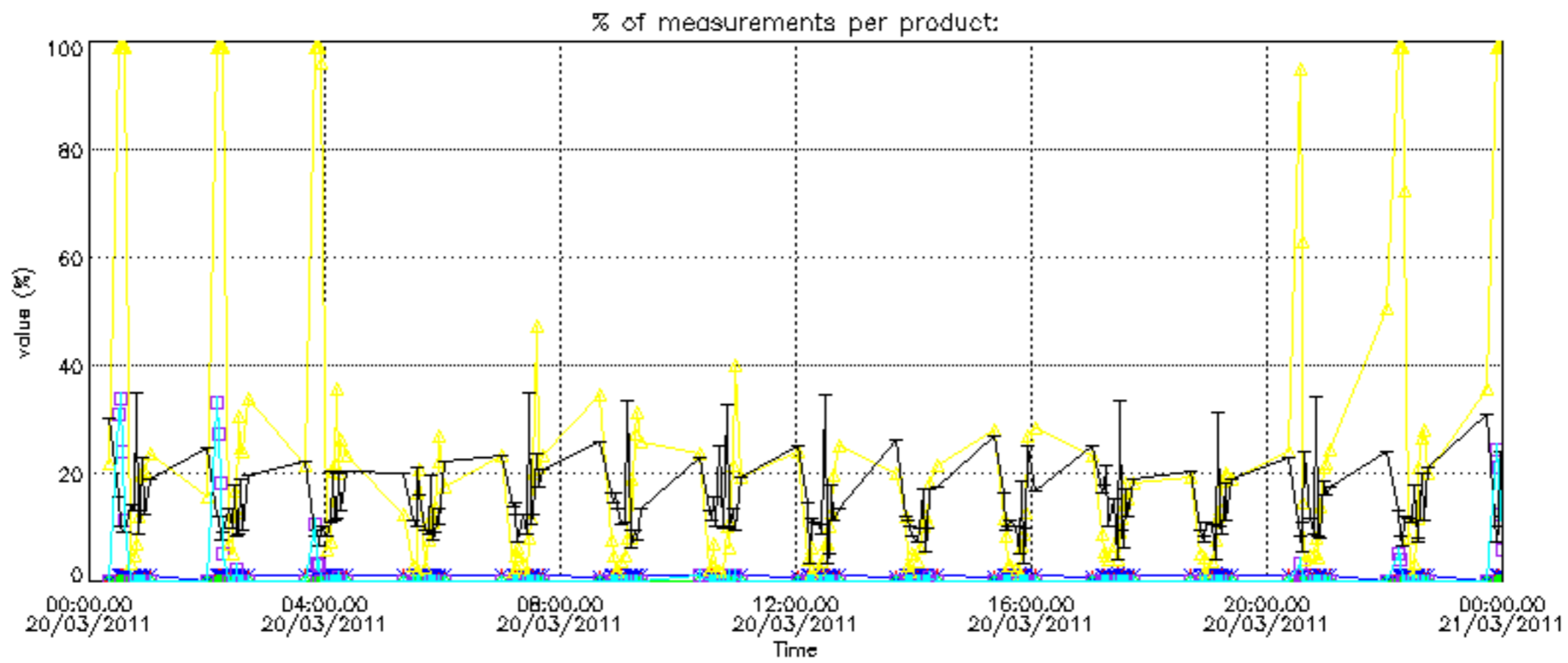


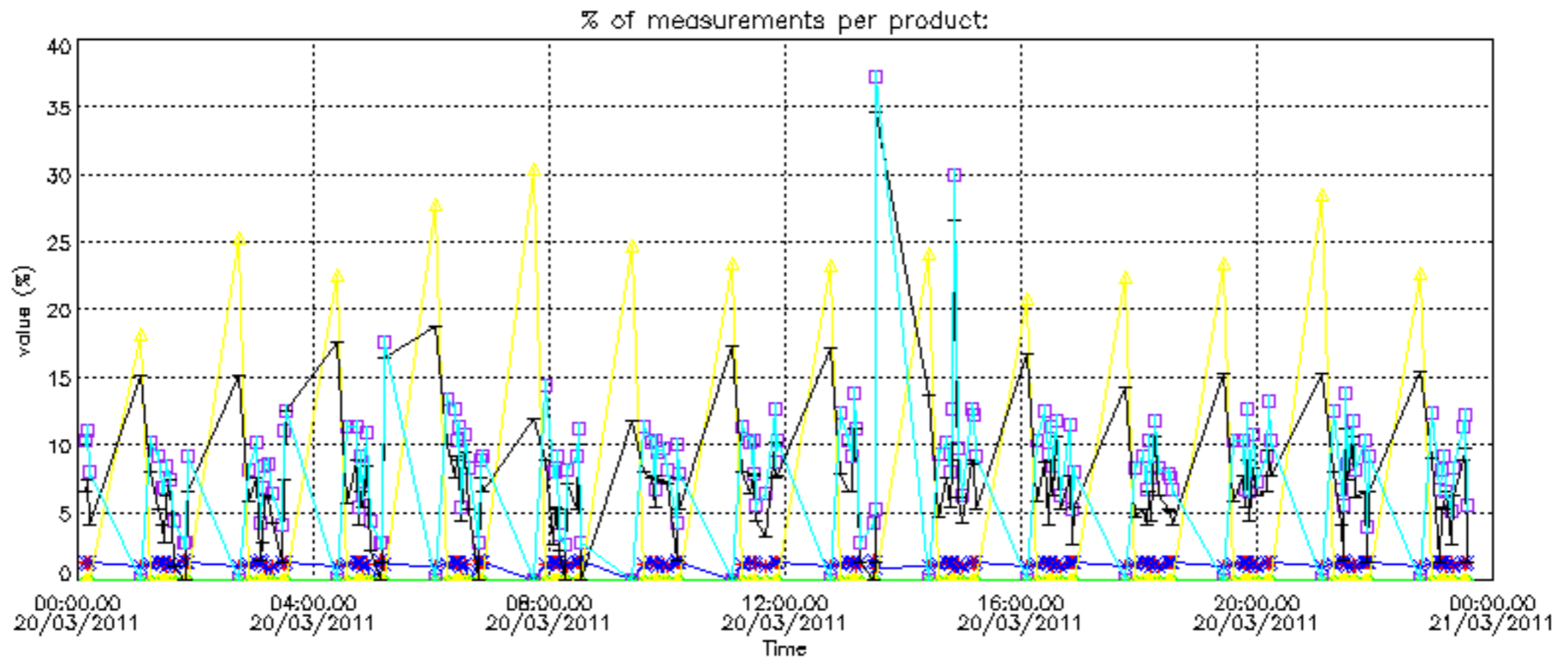
Percentage of flagged data per NO2 profile



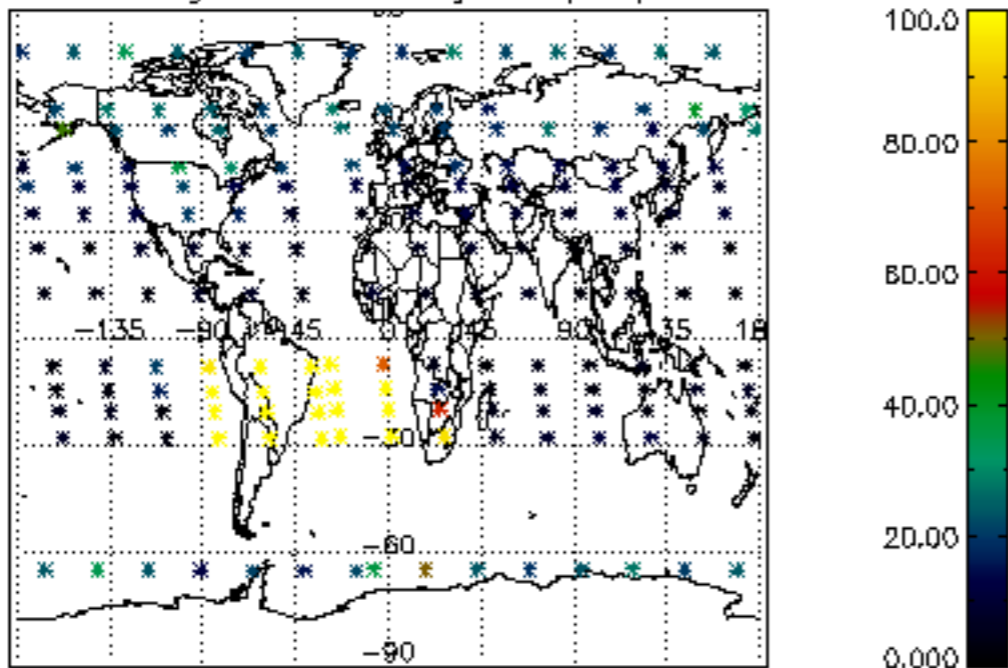
Percentage of flagged data per NO3 profile



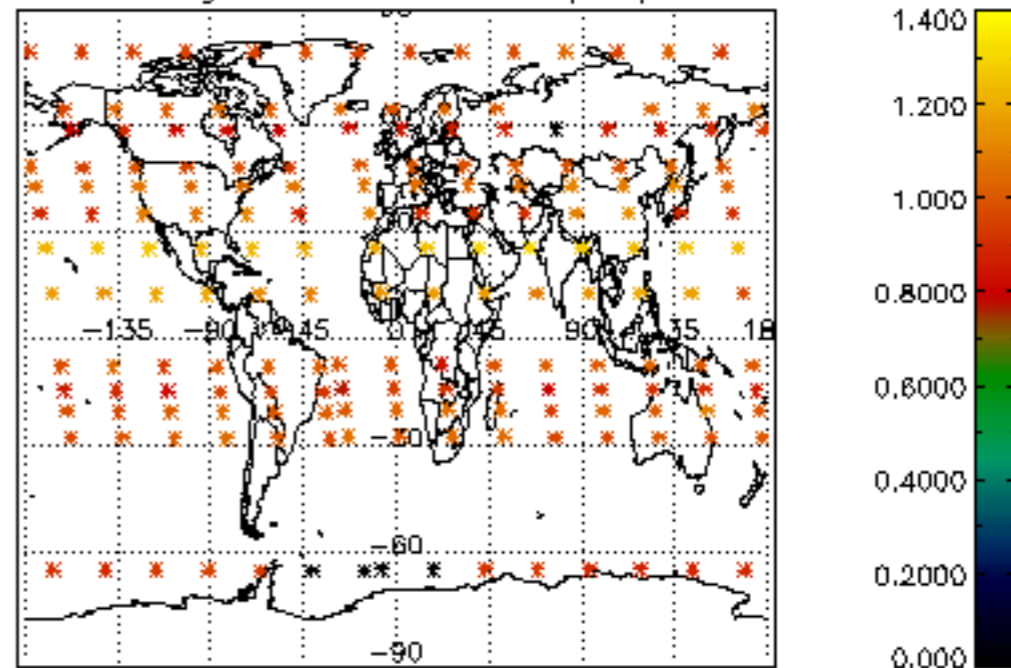




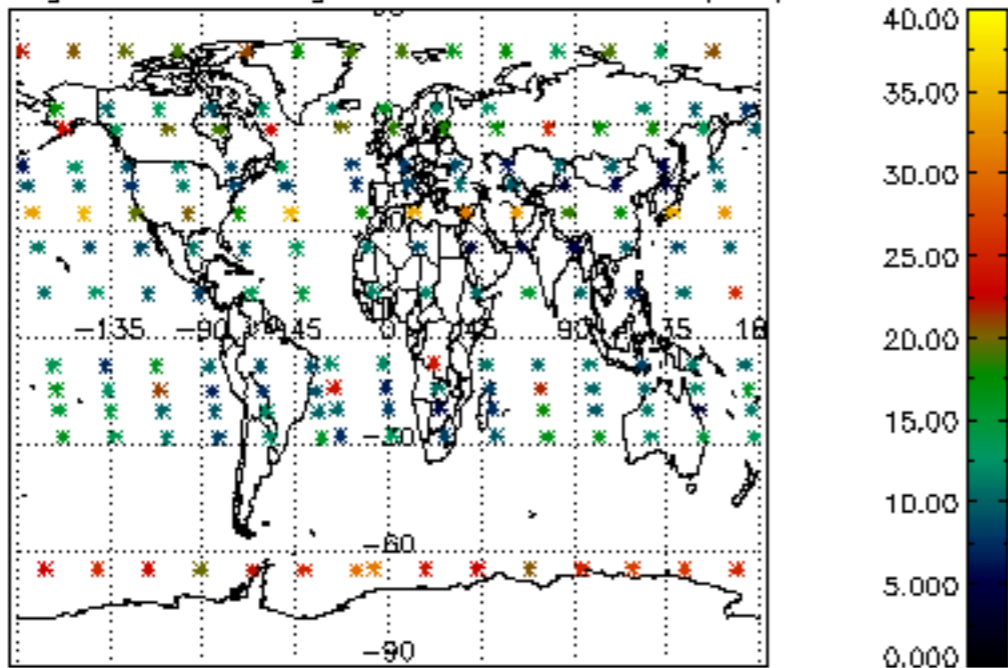
Percentage of cosmic ray hits per profile



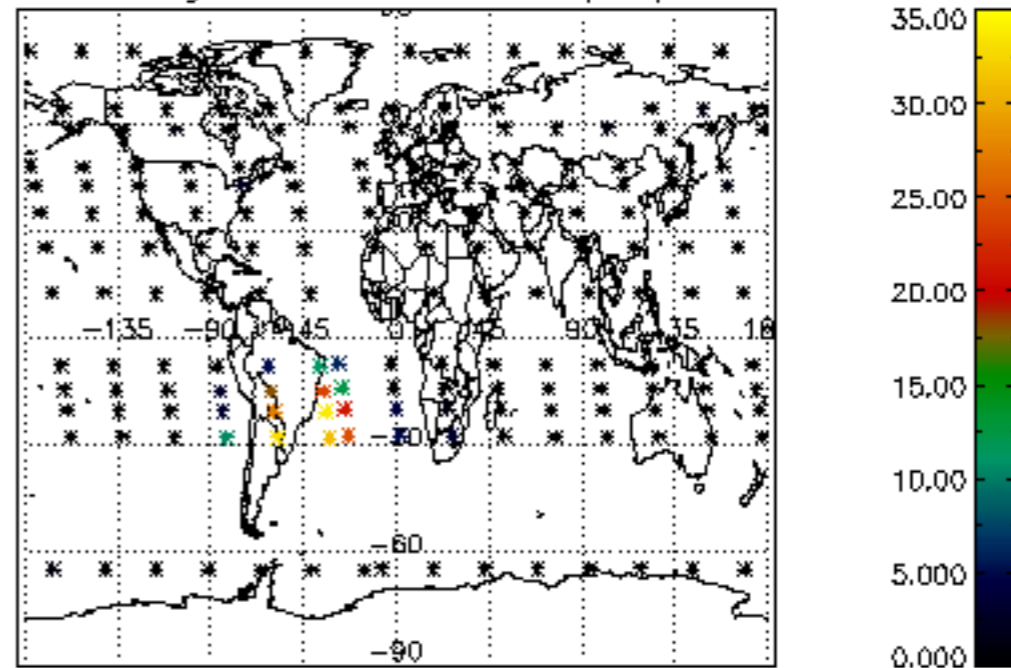
Percentage of datation errors per profile



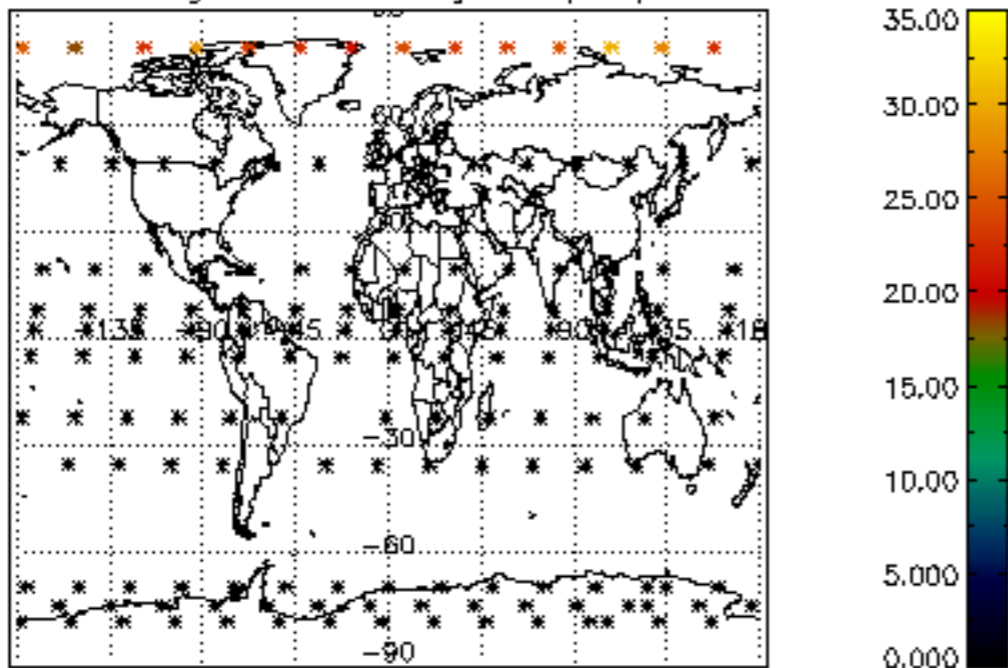
Percentage of star falling outside central band per profile



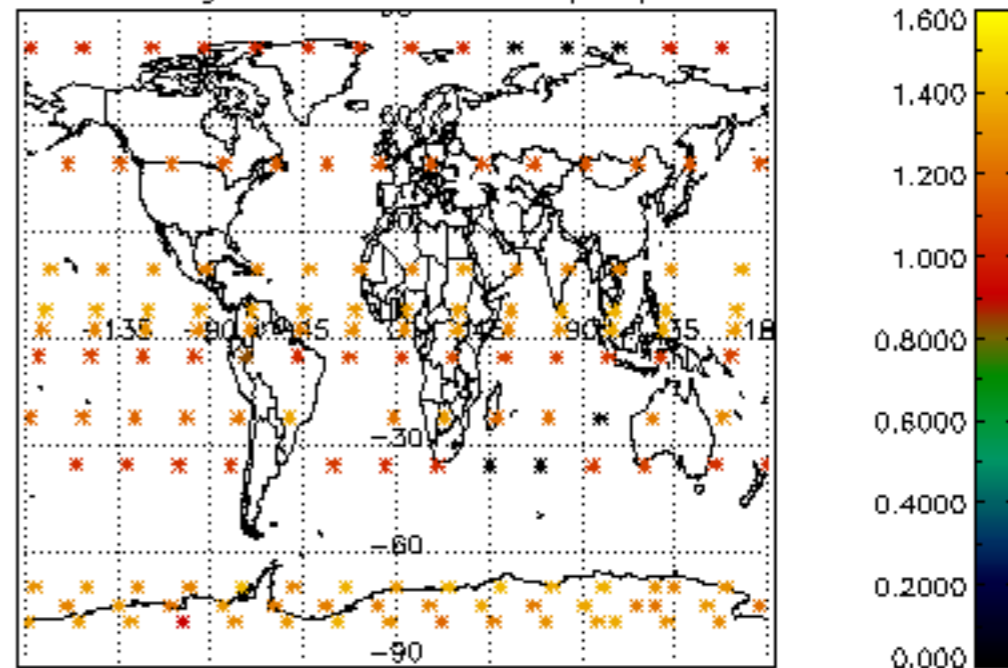
Percentage of saturation errors per profile



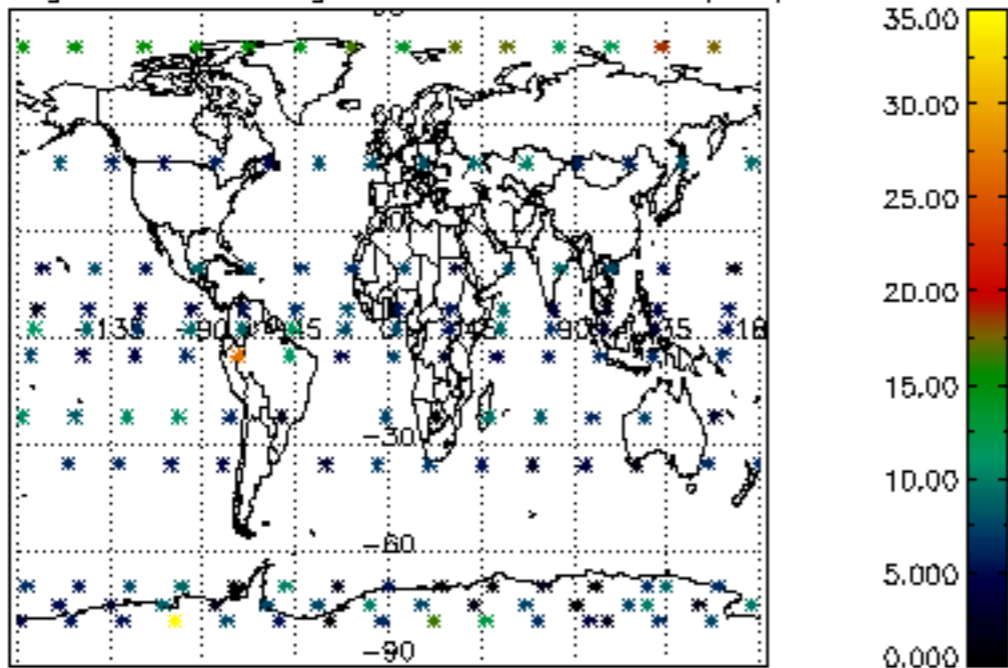
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

