

# GOMOS Level 2 Daily Report

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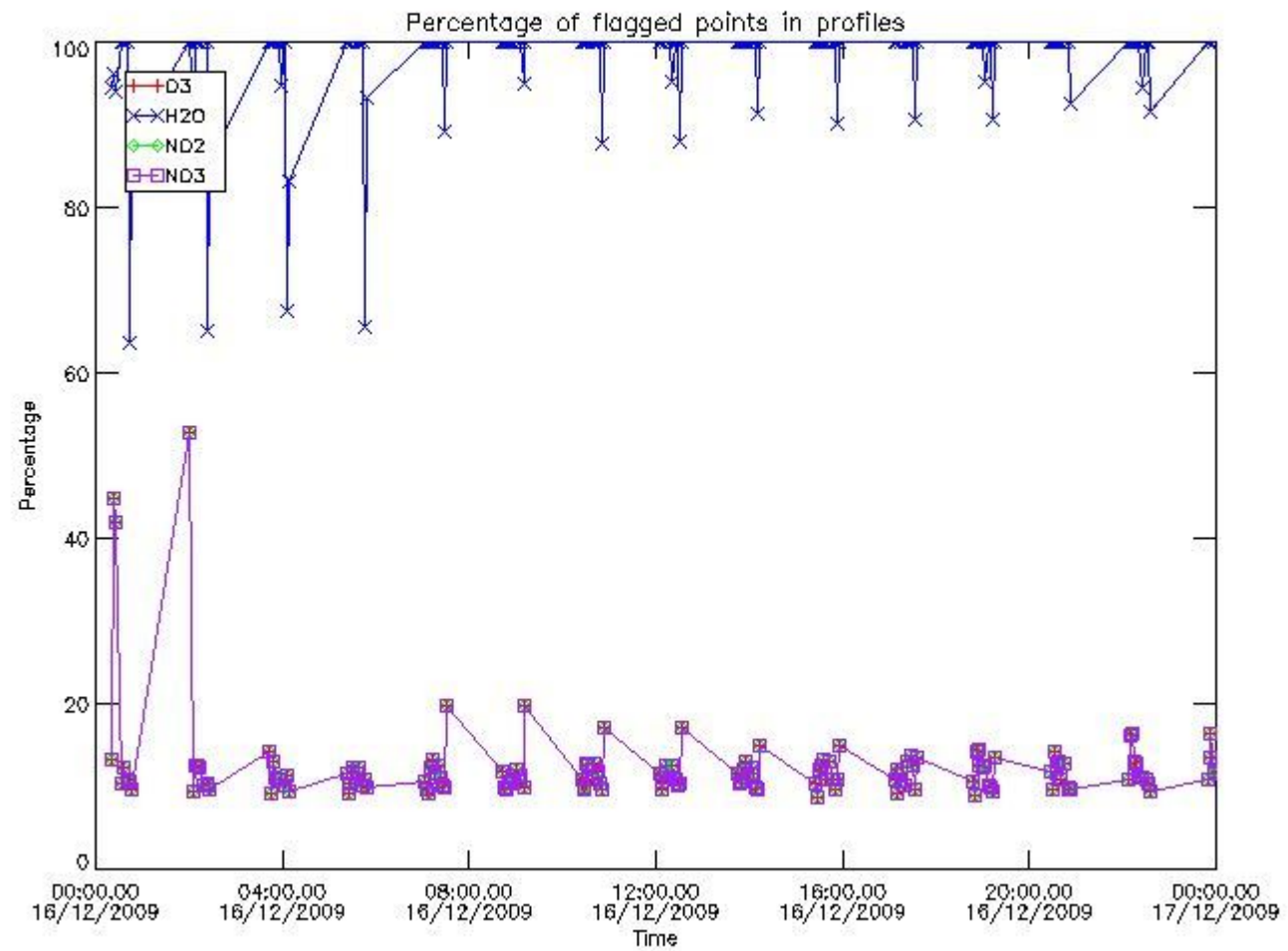


397	GOM_NL__2PRFIN20091216_234534_000000572085_00130_40765_7150.N1	16-DEC-2009 23:45:34	Twilight_stray	56.500	15	67Alp Vir	0.97600	28000.	113	40765	No
398	GOM_NL__2PRFIN20091216_234904_000000472085_00130_40765_7151.N1	16-DEC-2009 23:49:04	Dark	47.000	169	46Gam Hya	2.9910	4700.0	94	40765	No
399	GOM_NL__2PRFIN20091216_235138_000000532085_00130_40765_7152.N1	16-DEC-2009 23:51:38	Dark	53.000	106	9Bet Crv	2.6480	5600.0	106	40765	No
400	GOM_NL__2PRFIN20091216_235318_000000312085_00130_40765_7153.N1	16-DEC-2009 23:53:18	Dark	31.000	171	2Eps Crv	3.0010	4250.0	62	40765	No
401	GOM_NL__2PRFIN20091216_235622_000000452085_00130_40765_7154.N1	16-DEC-2009 23:56:22	Dark	44.500	64	Gam Cen	2.2000	10600.	89	40765	No
402	GOM_NL__2PRFIN20091216_235801_000000442085_00131_40766_7157.N1	16-DEC-2009 23:58:01	Dark	43.500	99	Del Cen	2.5750	26000.	87	40766	No

### 3. Quality information per product

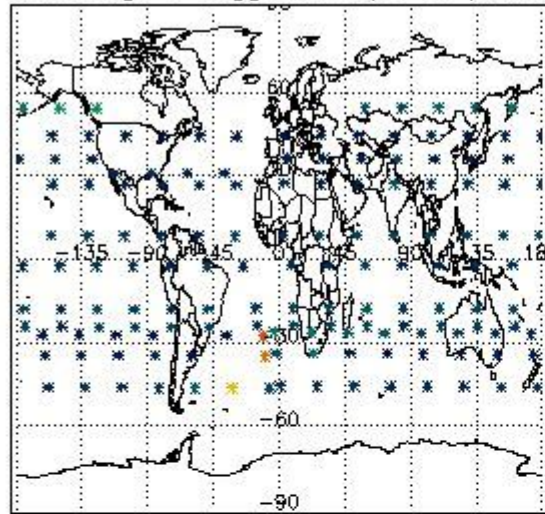
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

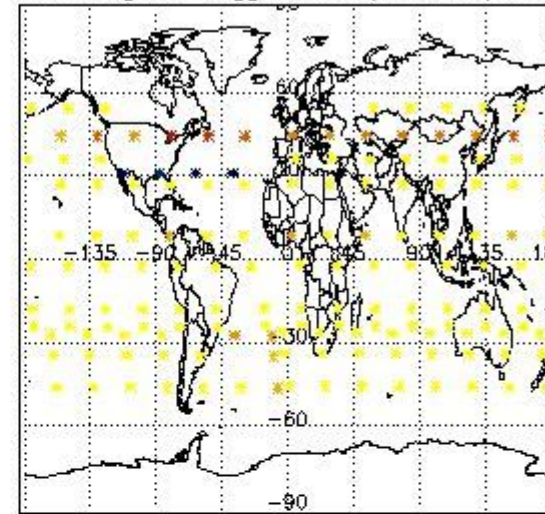


#### 3.2 Plot quality information per product (world map)

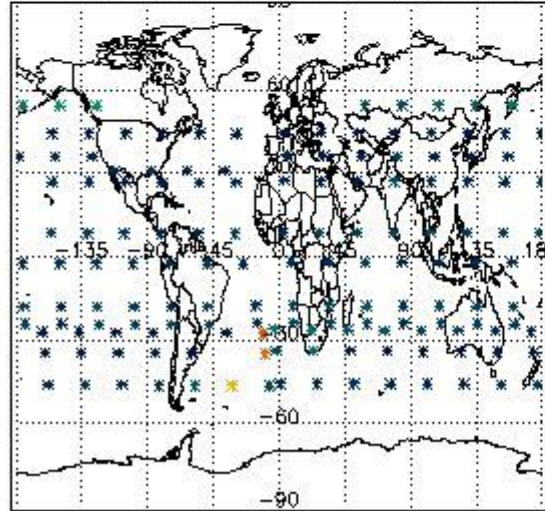
Percentage of flagged data per O3 profile



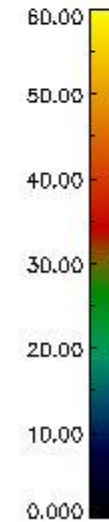
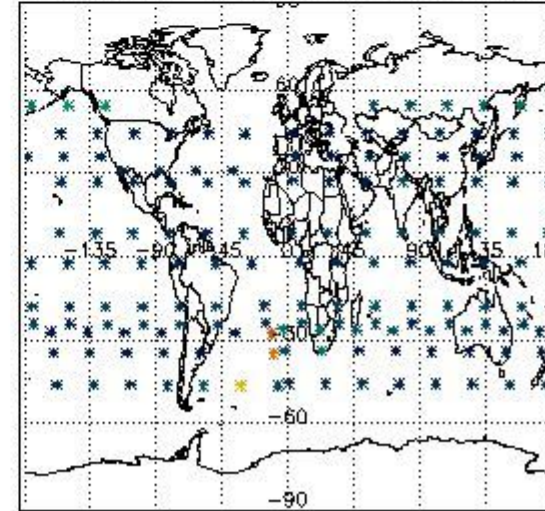
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

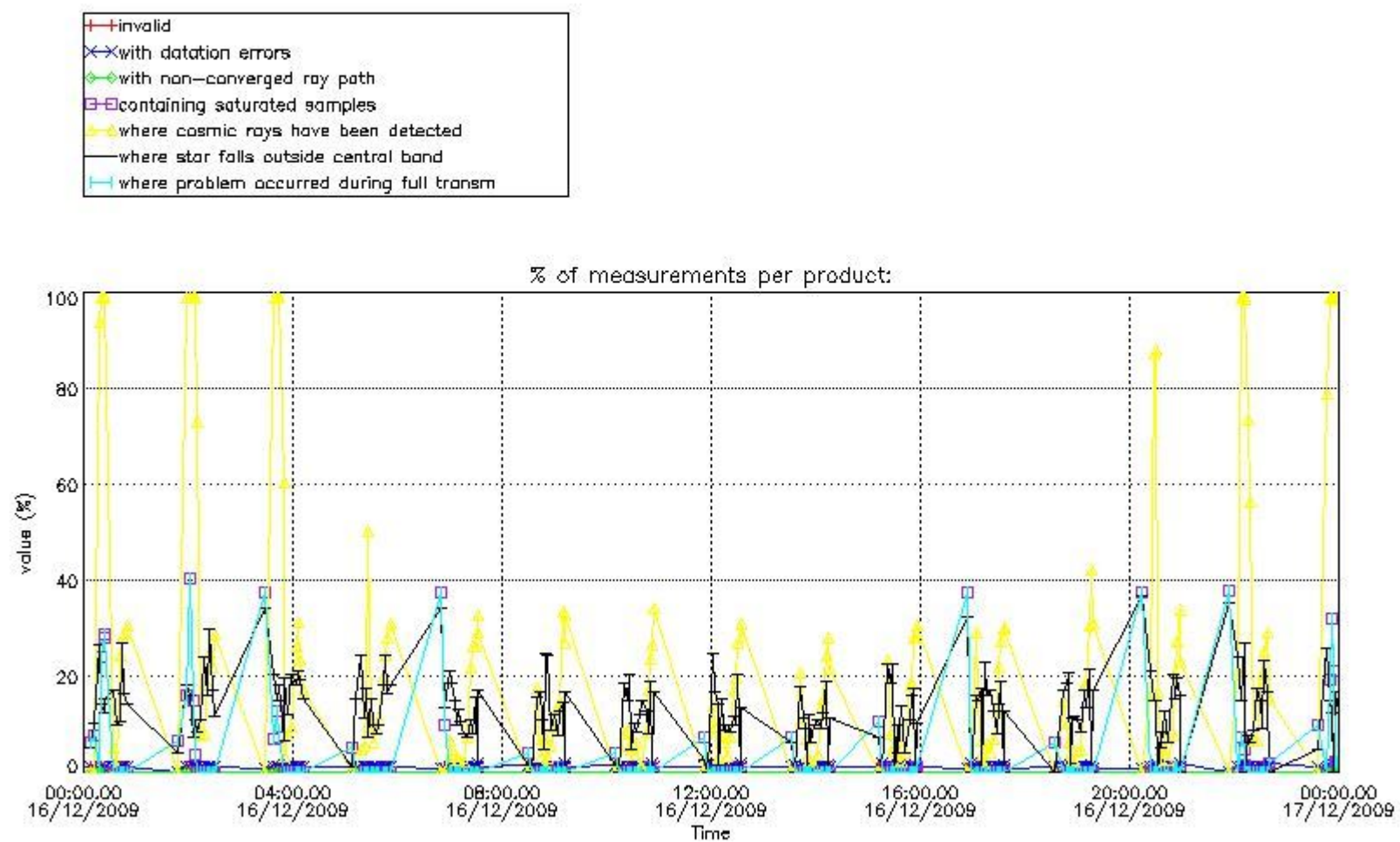


#### 4. Level 1 quality information per product

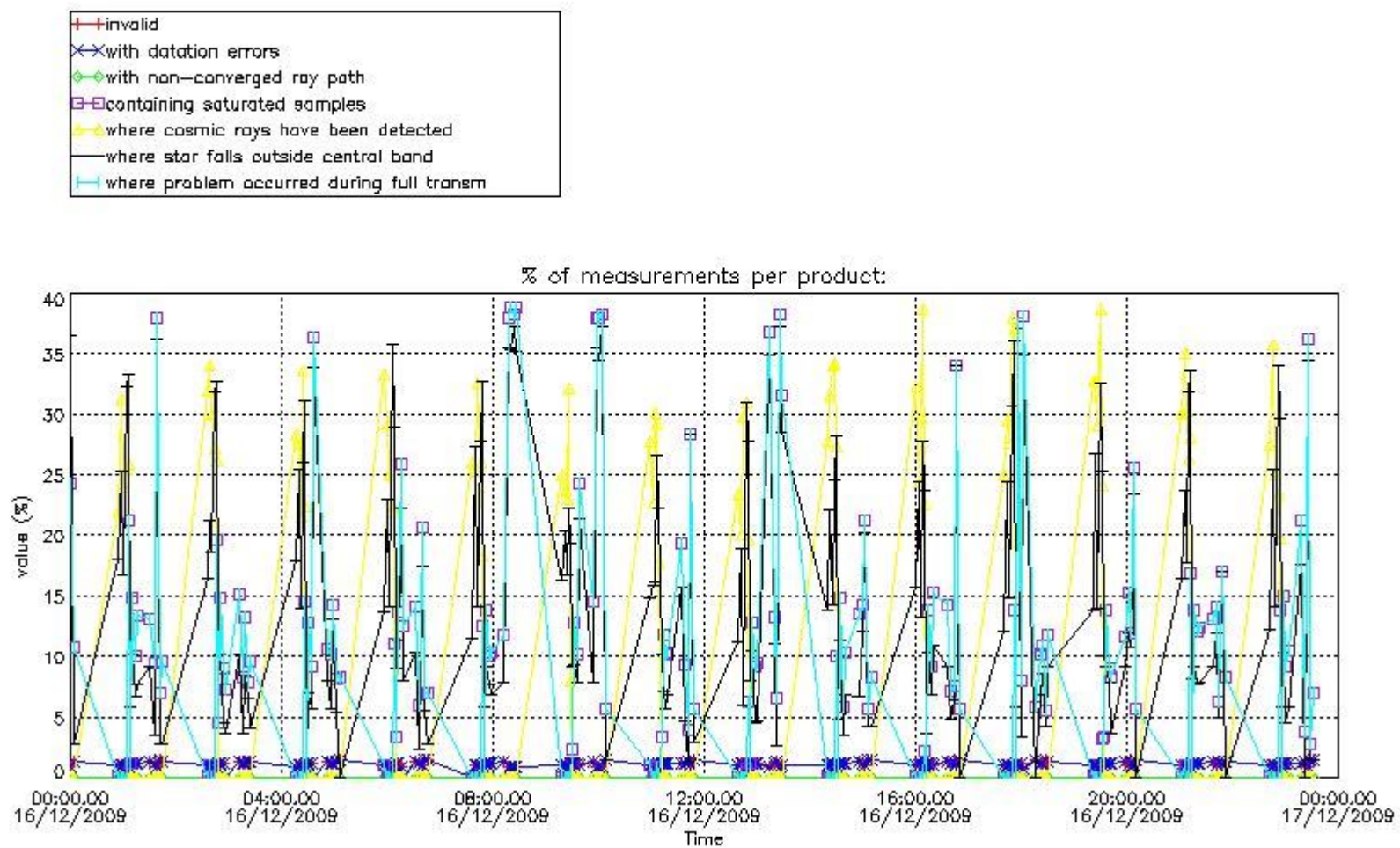
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

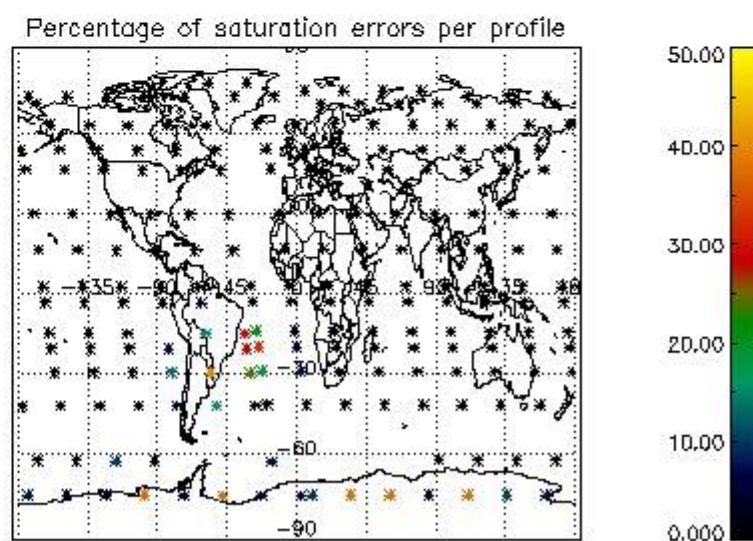
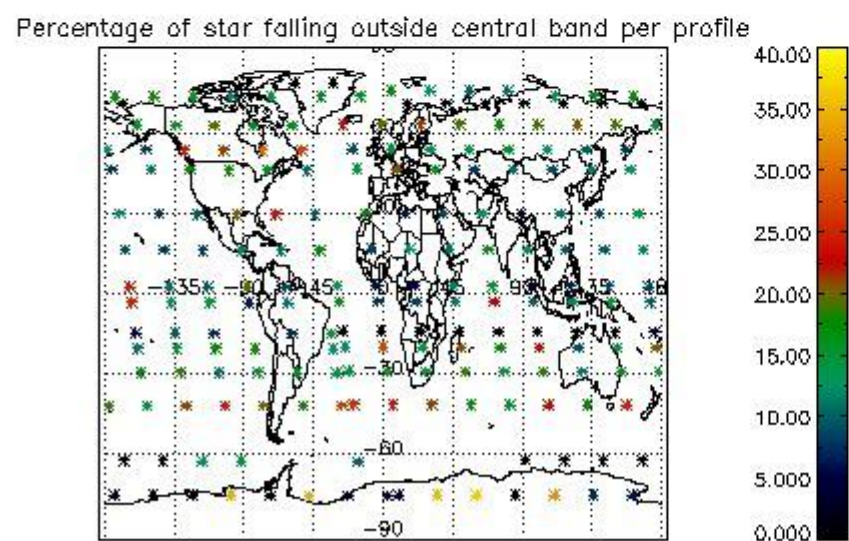
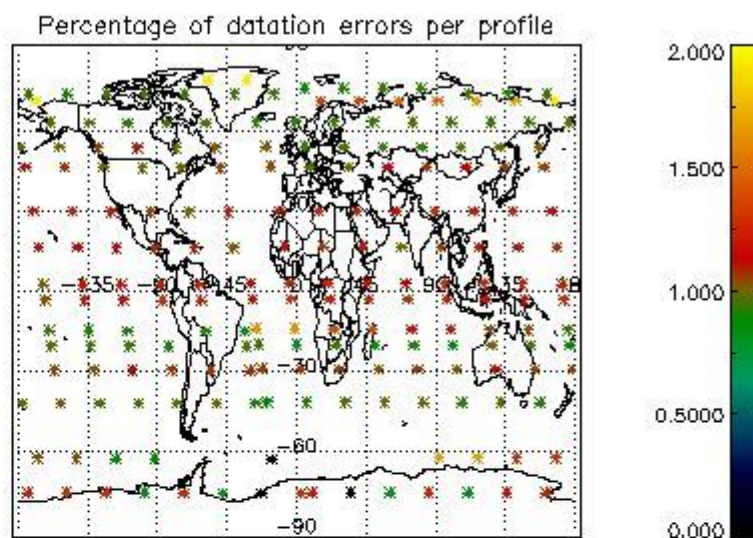
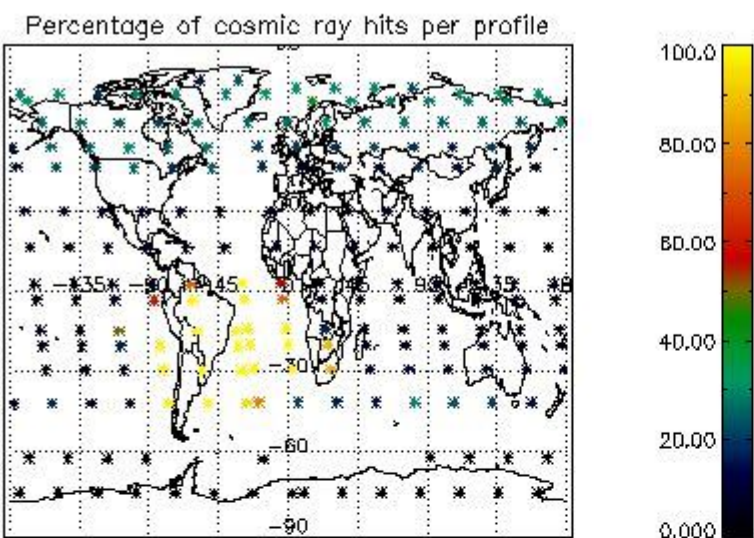


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

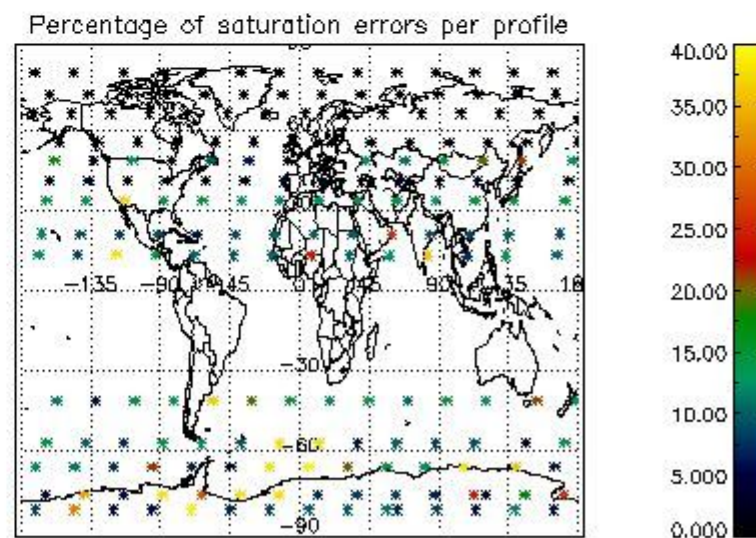
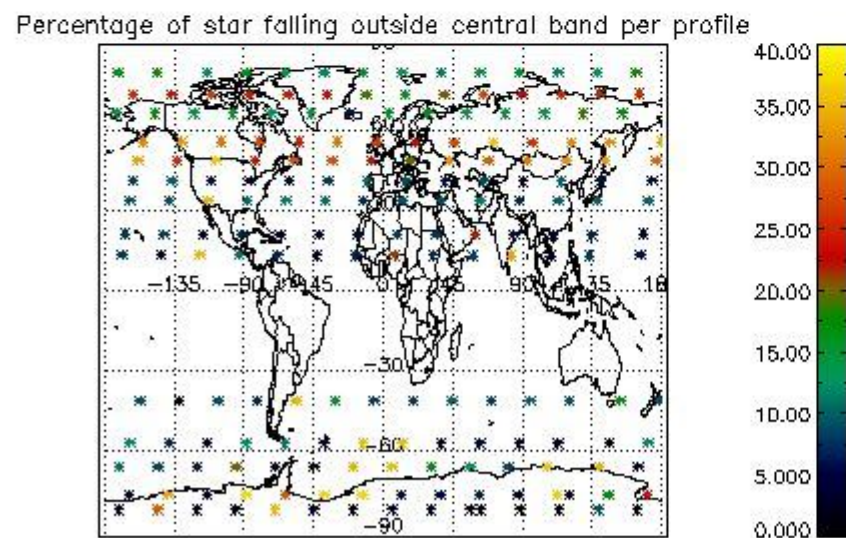
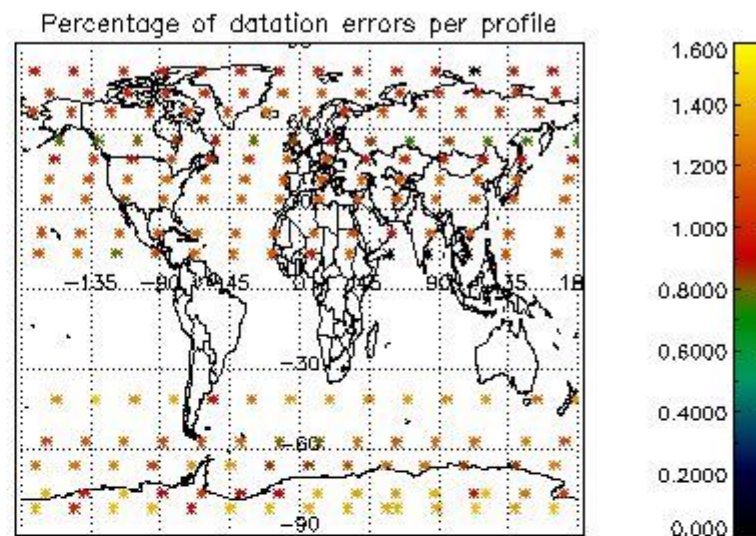
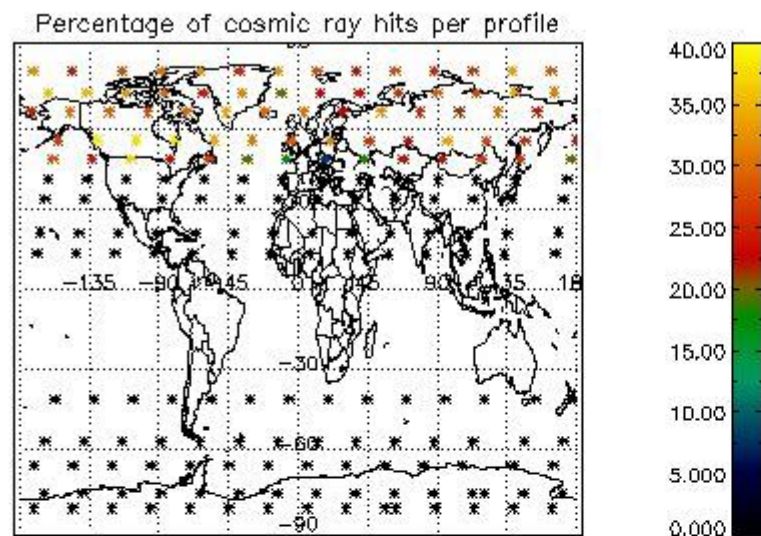


4.2 Plot quality information per product coming from level 1b processing (world map)

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

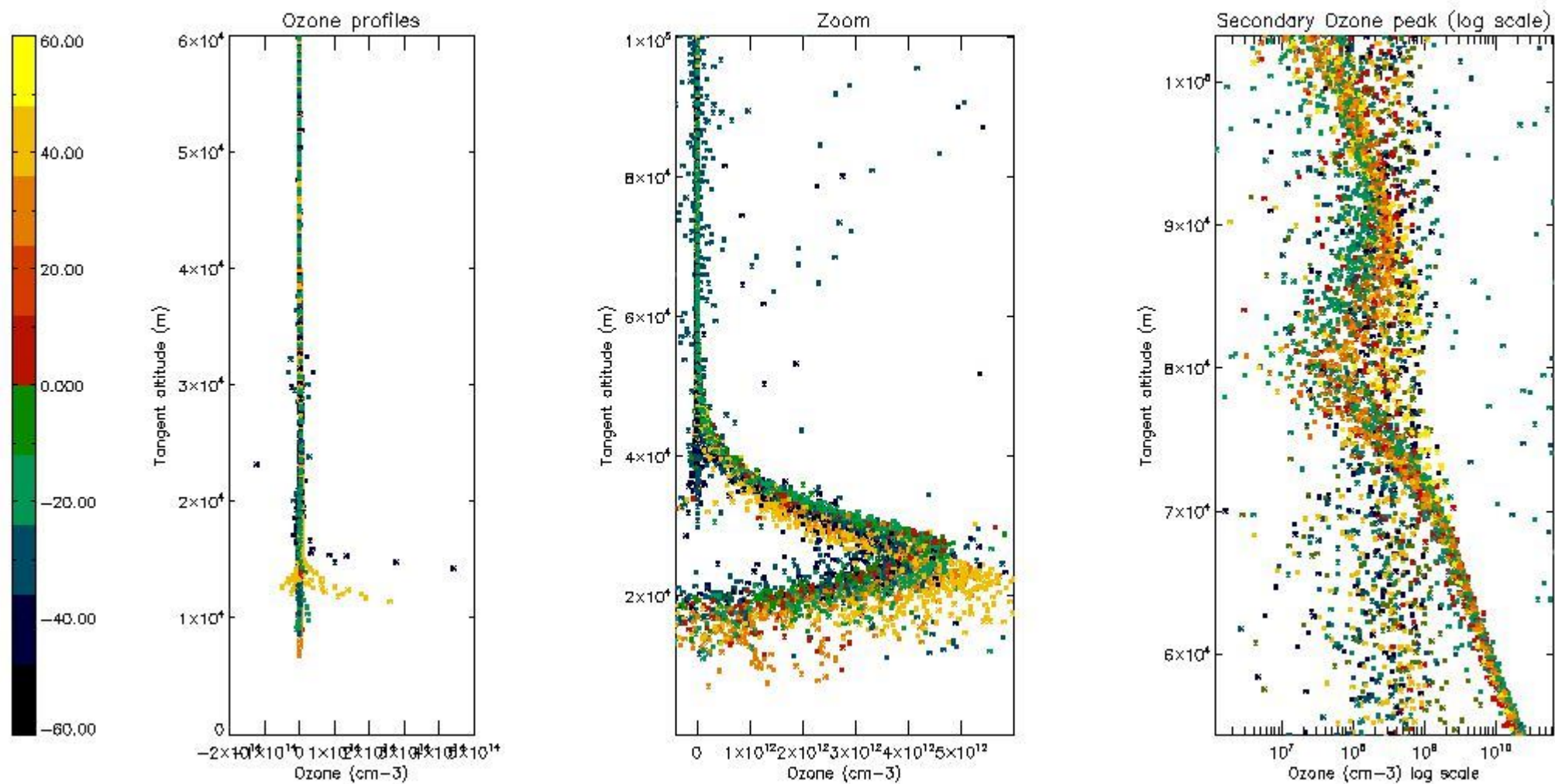
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	14

STD < 10	10
STD < 5	6

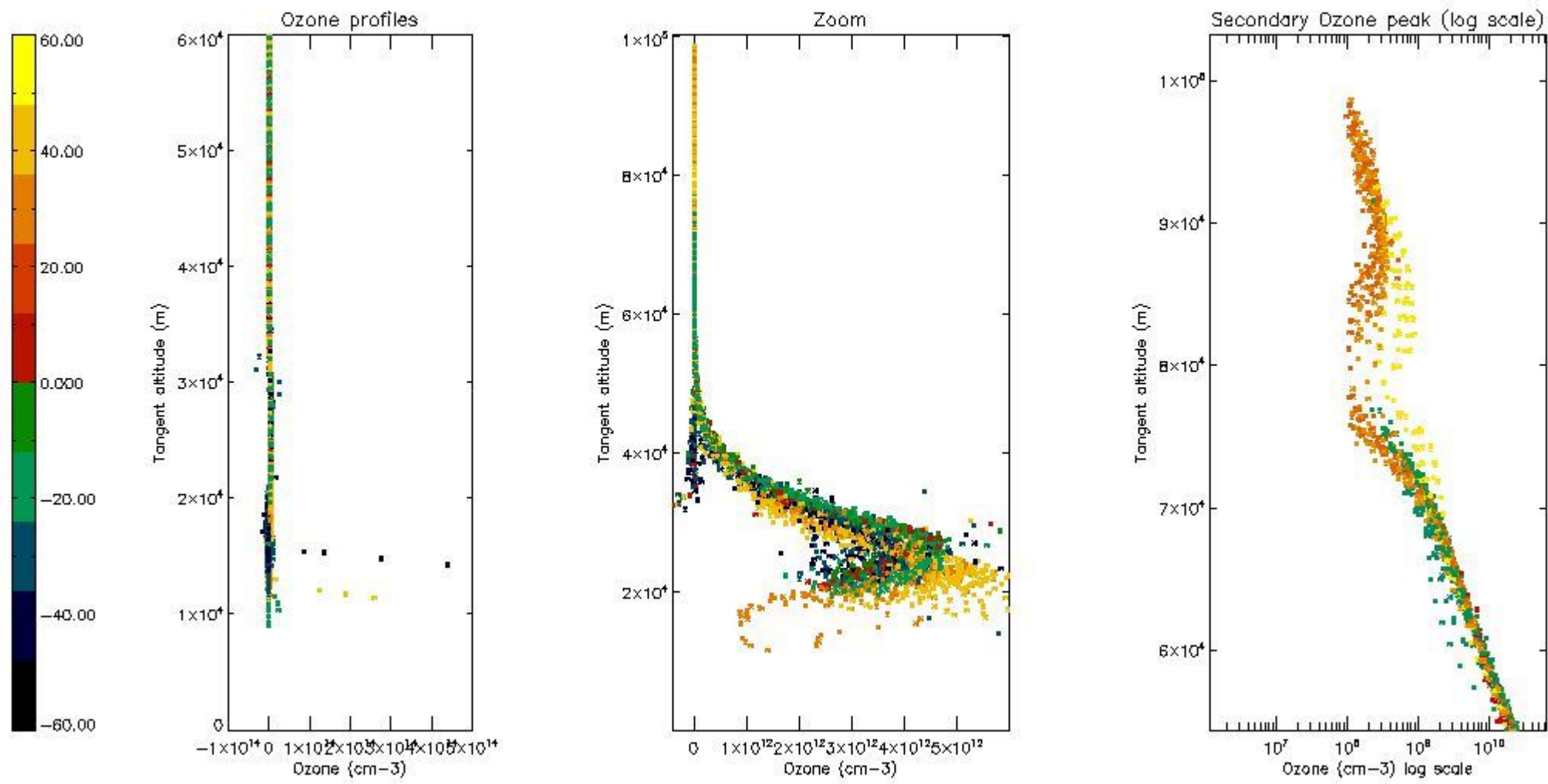
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

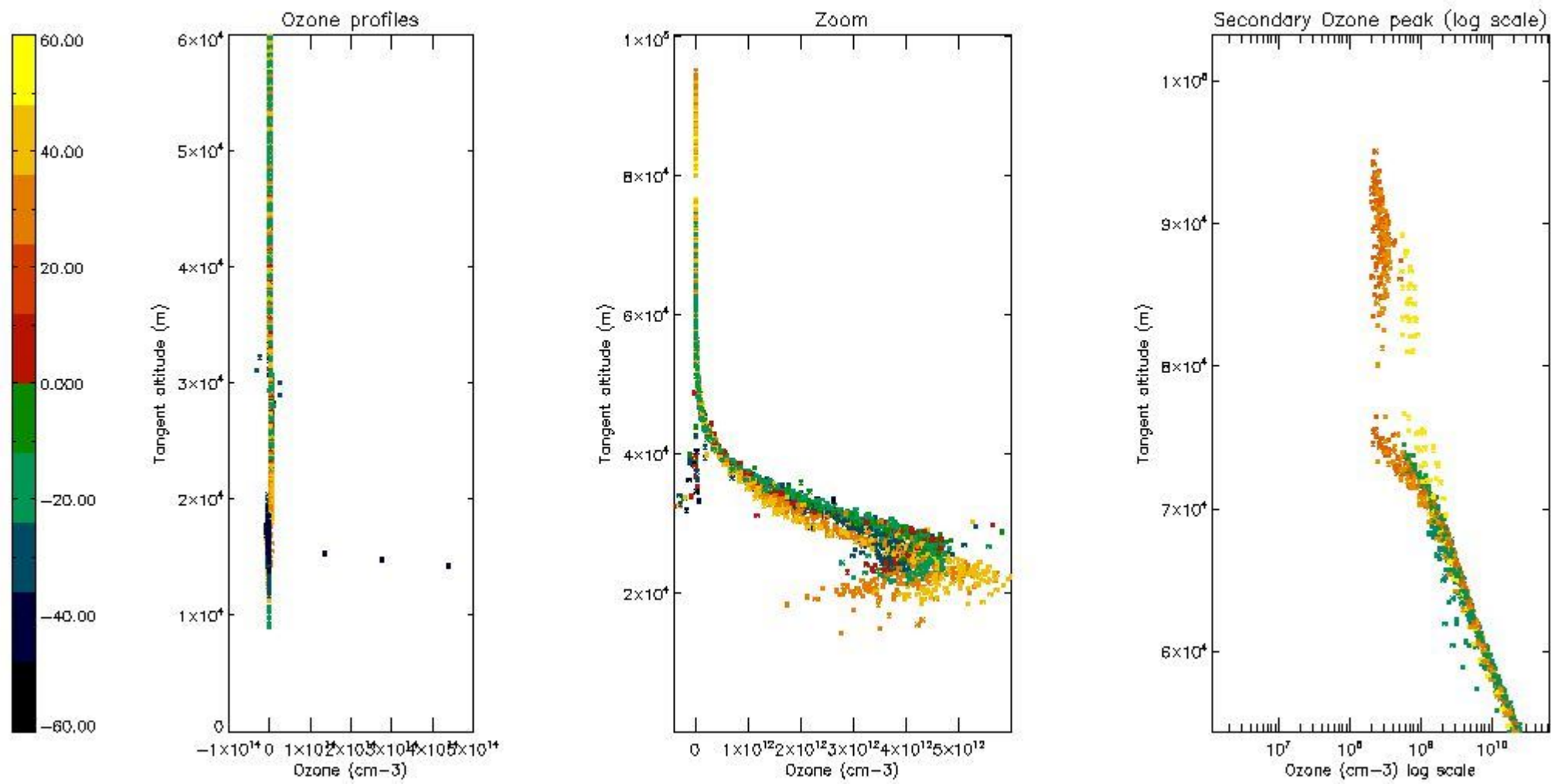
The colorbar represents the latitude.



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

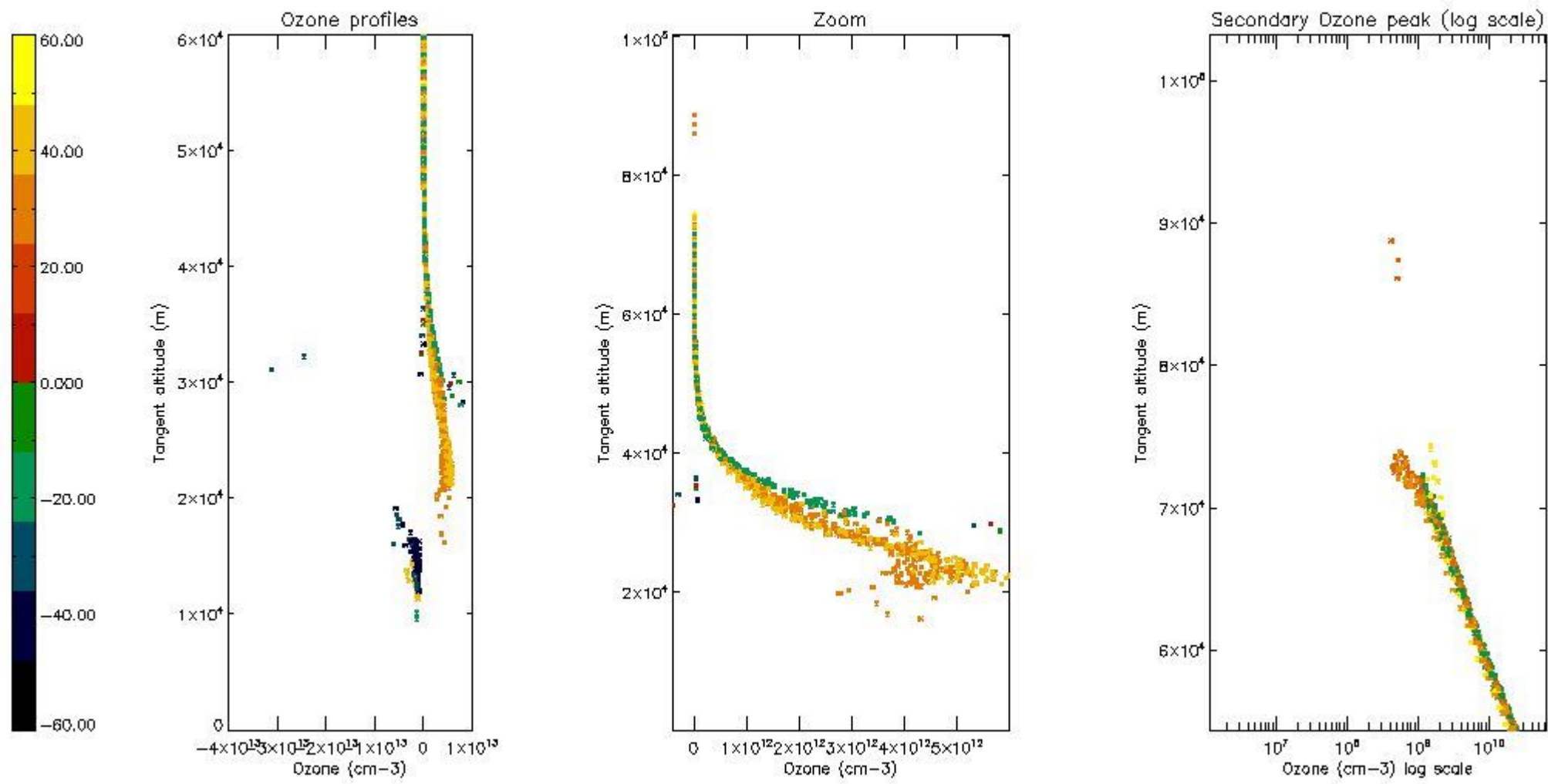
The colorbar represents the latitude.





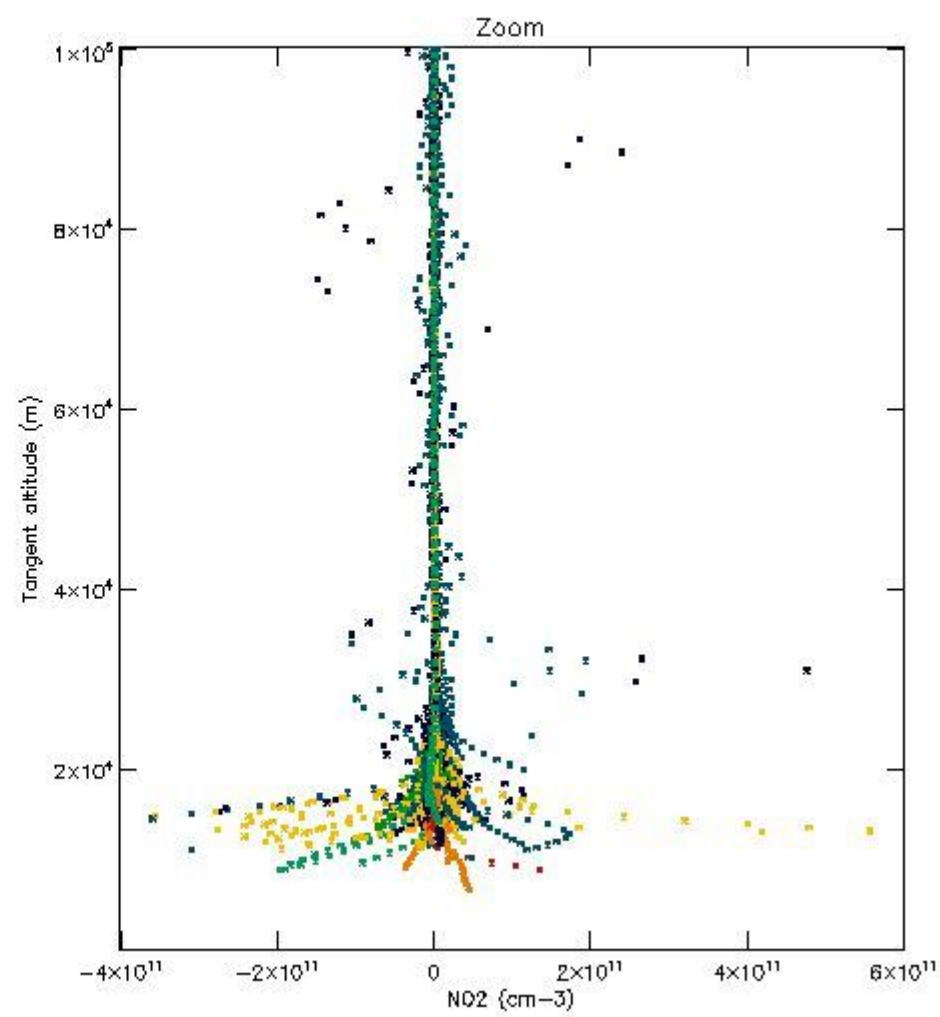
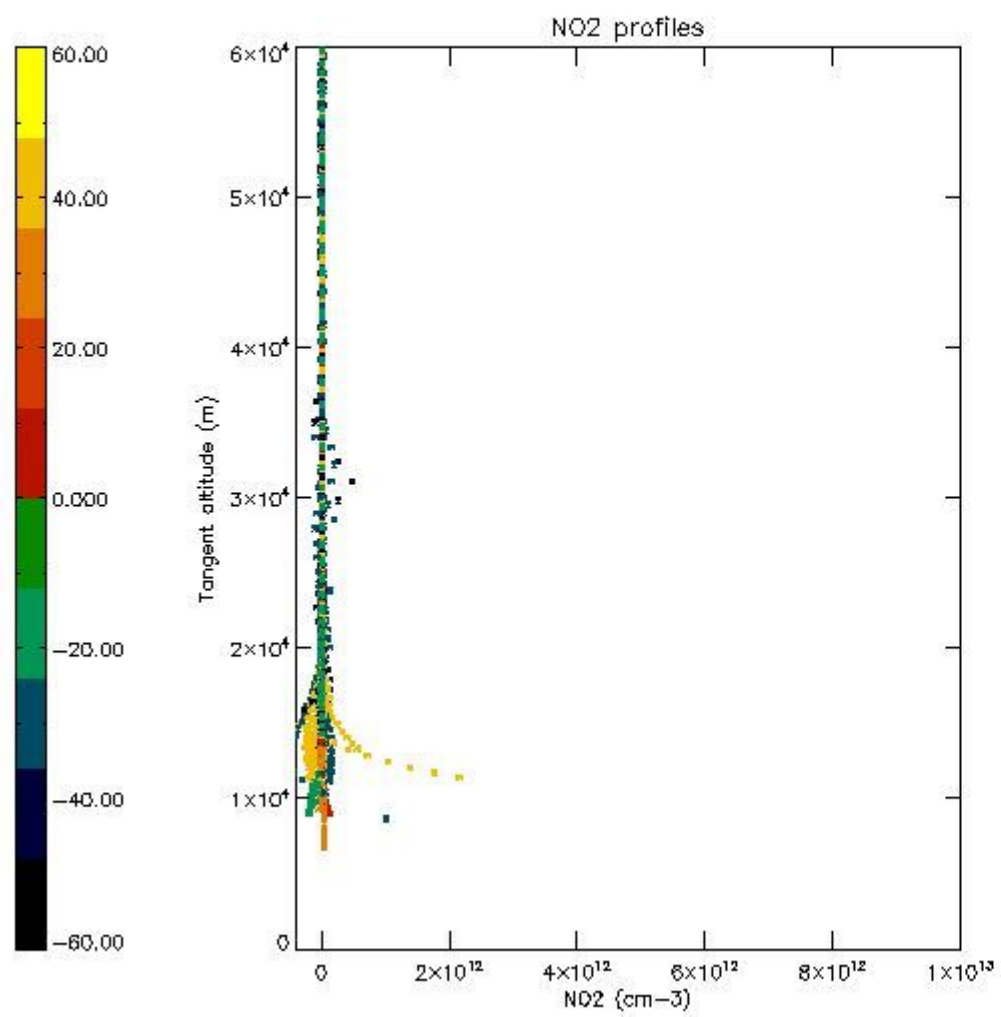
*5.5 Plot ozone profiles where  $STD < 5\%$  (dark without errors)*

The colorbar represents the latitude.



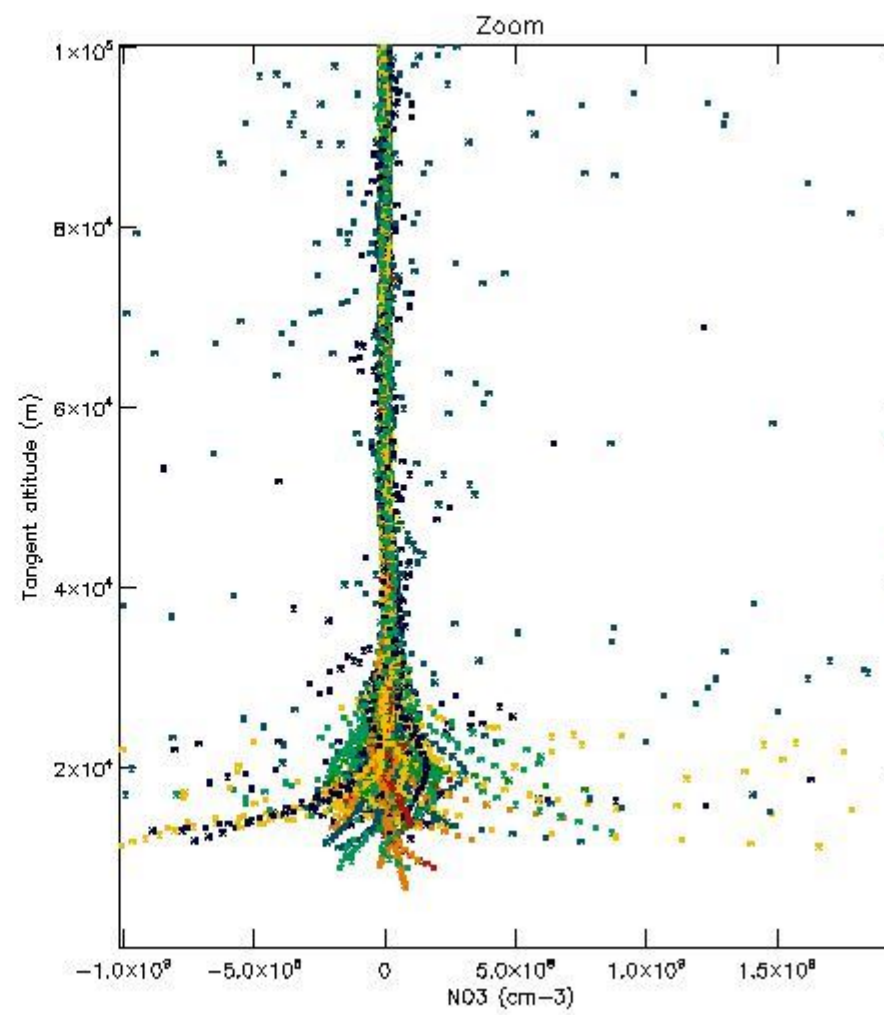
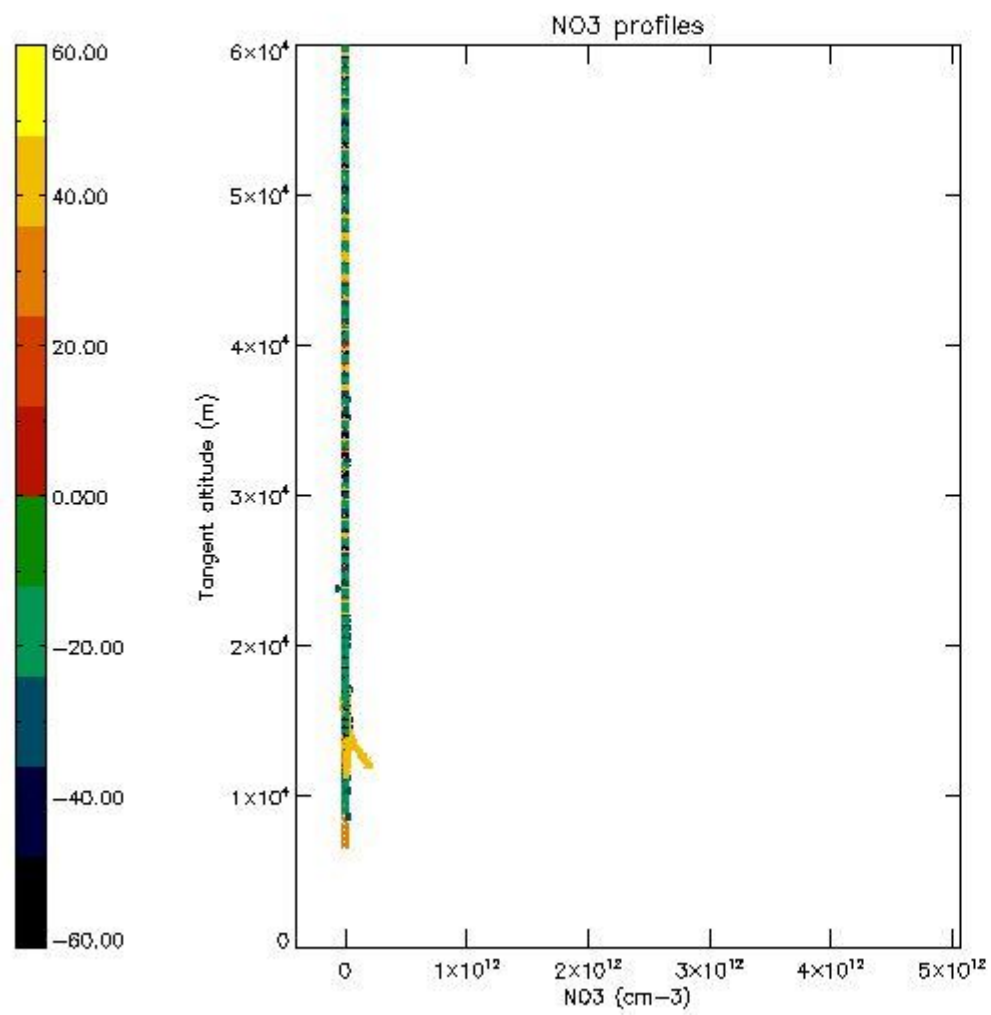
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

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	16-DEC-2009 00:00:32
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	16-DEC-2009 00:00:32
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	16-DEC-2009 00:00:32

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### [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	30APR2013 09:28:24
Data source version	GOMOS/6.01
Start time of products	16-12-2009 (16DEC2009 00:00:00)
Stop time of products	17-12-2009 (17DEC2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	402
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__2PRFIN20091216_000032_000000542085_00116_40751_6965.N1	16-DEC-2009 00:00:32	Bright	53.500	180	27Gam Boo	3.0400	8000.0	107	40751	No
2	GOM_NL__2PRFIN20091216_000344_000000372085_00116_40751_6966.N1	16-DEC-2009 00:03:44	Bright	37.000	83		2.3780	11000.	74	40751	No
3	GOM_NL__2PRFIN20091216_000704_000000402085_00116_40751_6967.N1	16-DEC-2009 00:07:04	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	40751	No
4	GOM_NL__2PRFIN20091216_001102_000000542085_00116_40751_6968.N1	16-DEC-2009 00:11:02	Bright	53.500	138	47Eps Vir	2.8280	4700.0	107	40751	No
5	GOM_NL__2PRFIN20091216_001700_000000572085_00116_40751_6969.N1	16-DEC-2009 00:17:00	Twilight	56.500	15	67Alp Vir	0.97600	28000.	113	40751	No
6	GOM_NL__2PRFIN20091216_002030_000000462085_00116_40751_6970.N1	16-DEC-2009 00:20:30	Dark	46.000	169	46Gam Hya	2.9910	4700.0	92	40751	No
7	GOM_NL__2PRFIN20091216_002300_000000522085_00116_40751_6971.N1	16-DEC-2009 00:23:00	Dark	52.000	106	9Bet Crv	2.6480	5600.0	104	40751	No
8	GOM_NL__2PRFIN20091216_002436_000000592085_00116_40751_6972.N1	16-DEC-2009 00:24:36	Dark	59.000	171	2Eps Crv	3.0010	4250.0	118	40751	No
9	GOM_NL__2PRFIN20091216_003319_000000502085_00117_40752_6957.N1	16-DEC-2009 00:33:19	Dark	49.500	113	Mu Vel	2.6920	5000.0	99	40752	No
10	GOM_NL__2PRFIN20091216_003706_000000422085_00117_40752_6958.N1	16-DEC-2009 00:37:06	Dark	41.500	71	lot Car	2.2460	7700.0	83	40752	No
11	GOM_NL__2PRFIN20091216_004146_000000472085_00117_40752_6959.N1	16-DEC-2009 00:41:46	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40752	No
12	GOM_NL__2PRFIN20091216_004354_000000492085_00117_40752_6960.N1	16-DEC-2009 00:43:54	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	40752	No
13	GOM_NL__2PRFIN20091216_004638_000000532085_00117_40752_6961.N1	16-DEC-2009 00:46:38	Dark	52.500	117	Pi Pup	2.7060	3800.0	105	40752	No
14	GOM_NL__2PRFIN20091216_004953_000000532085_00117_40752_6962.N1	16-DEC-2009 00:49:53	Straylight	52.500	23	21Eps CMa	1.5020	26000.	105	40752	No
15	GOM_NL__2PRFIN20091216_005427_000000532085_00117_40752_6963.N1	16-DEC-2009 00:54:27	Straylight	52.500	47	2Bet CMa	1.9760	28000.	105	40752	No
16	GOM_NL__2PRFIN20091216_005759_000000502085_00117_40752_6964.N1	16-DEC-2009 00:57:59	Straylight	49.500	7	19Bet Ori	0.10000	14000.	99	40752	No
17	GOM_NL__2PRFIN20091216_010015_000000482085_00117_40752_6965.N1	16-DEC-2009 01:00:15	Straylight	48.000	30	46Eps Ori	1.6940	30000.	96	40752	No
18	GOM_NL__2PRFIN20091216_010324_000000652085_00117_40752_6966.N1	16-DEC-2009 01:03:24	Twilight	65.000	14	58Alp Ori	0.87000	3000.0	130	40752	No
19	GOM_NL__2PRFIN20091216_010520_000000542085_00117_40752_6967.N1	16-DEC-2009 01:05:20	Twilight	54.000	13	87Alp Tau	0.86700	3800.0	108	40752	No
20	GOM_NL__2PRFIN20091216_010735_000000432085_00117_40752_6968.N1	16-DEC-2009 01:07:35	Bright	43.000	176	23Zet Tau	3.0200	22000.	86	40752	No
21	GOM_NL__2PRFIN20091216_010938_000000442085_00117_40752_6969.N1	16-DEC-2009 01:09:38	Bright	44.000	28	12Bet Tau	1.6500	15200.	88	40752	No
22	GOM_NL__2PRFIN20091216_011314_000000452085_00117_40752_6970.N1	16-DEC-2009 01:13:14	Bright	45.000	107	37The Aur	2.6490	11000.	90	40752	No
23	GOM_NL__2PRFIN20091216_011524_000000452085_00117_40752_6971.N1	16-DEC-2009 01:15:24	Bright	45.000	42	34Bet Aur	1.9000	10200.	90	40752	No
24	GOM_NL__2PRFIN20091216_013034_000000382085_00117_40752_6972.N1	16-DEC-2009 01:30:34	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	40752	No
25	GOM_NL__2PRFIN20091216_013512_000000432085_00117_40752_6973.N1	16-DEC-2009 01:35:12	Bright	42.500	32	77Eps UMa	1.7630	11000.	85	40752	No
26	GOM_NL__2PRFIN20091216_013747_000000582085_00117_40752_6974.N1	16-DEC-2009 01:37:47	Bright	58.000	39	85Eta UMa	1.8540	24000.	116	40752	No
27	GOM_NL__2PRFIN20091216_014108_000000362085_00117_40752_6975.N1	16-DEC-2009 01:41:08	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	40752	No
28	GOM_NL__2PRFIN20091216_014420_000000372085_00117_40752_6976.N1	16-DEC-2009 01:44:20	Bright	36.500	83		2.3780	11000.	73	40752	No
29	GOM_NL__2PRFIN20091216_014740_000000392085_00117_40752_6977.N1	16-DEC-2009 01:47:40	Bright	39.000	111	8Eta Boo	2.6800	6000.0	78	40752	No
30	GOM_NL__2PRFIN20091216_015737_000000502085_00117_40752_6978.N1	16-DEC-2009 01:57:37	Twilight	50.000	15	67Alp Vir	0.97600	28000.	100	40752	No
31	GOM_NL__2PRFIN20091216_020107_000000472085_00117_40752_6979.N1	16-DEC-2009 02:01:07	Dark	47.000	169	46Gam Hya	2.9910	4700.0	94	40752	No
32	GOM_NL__2PRFIN20091216_020513_000000542085_00117_40752_6980.N1	16-DEC-2009 02:05:13	Dark	54.000	171	2Eps Crv	3.0010	4250.0	108	40752	No
33	GOM_NL__2PRFIN20091216_020827_000000412085_00117_40752_6981.N1	16-DEC-2009 02:08:27	Dark	41.000	64	Gam Cen	2.2000	10600.	82	40752	No
34	GOM_NL__2PRFIN20091216_021005_000000412085_00118_40753_6966.N1	16-DEC-2009 02:10:05	Dark	41.000	99	Del Cen	2.5750	26000.	82	40753	No
35	GOM_NL__2PRFIN20091216_021356_000000462085_00118_40753_6967.N1	16-DEC-2009 02:13:56	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	40753	No
36	GOM_NL__2PRFIN20091216_021743_000000502085_00118_40753_6968.N1	16-DEC-2009 02:17:43	Dark	50.000	71	lot Car	2.2460	7700.0	100	40753	No
37	GOM_NL__2PRFIN20091216_022223_000000502085_00118_40753_6969.N1	16-DEC-2009 02:22:23	Dark	49.500	34	Gam2Vel	1.7930	23000.	99	40753	No
38	GOM_NL__2PRFIN20091216_022430_000000512085_00118_40753_6970.N1	16-DEC-2009 02:24:30	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	40753	No
39	GOM_NL__2PRFIN20091216_022714_000000532085_00118_40753_6971.N1	16-DEC-2009 02:27:14	Dark	52.500	117	Pi Pup	2.7060	3800.0	105	40753	No
40	GOM_NL__2PRFIN20091216_023029_000000522085_00118_40753_6972.N1	16-DEC-2009 02:30:29	Straylight	52.000	23	21Eps CMa	1.5020	26000.	104	40753	No
41	GOM_NL__2PRFIN20091216_023503_000000522085_00118_40753_6973.N1	16-DEC-2009 02:35:03	Straylight	51.500	47	2Bet CMa	1.9760	28000.	103	40753	No
42	GOM_NL__2PRFIN20091216_023835_000000472085_00118_40753_6974.N1	16-DEC-2009 02:38:35	Straylight	47.000	7	19Bet Ori	0.10000	14000.	94	40753	No













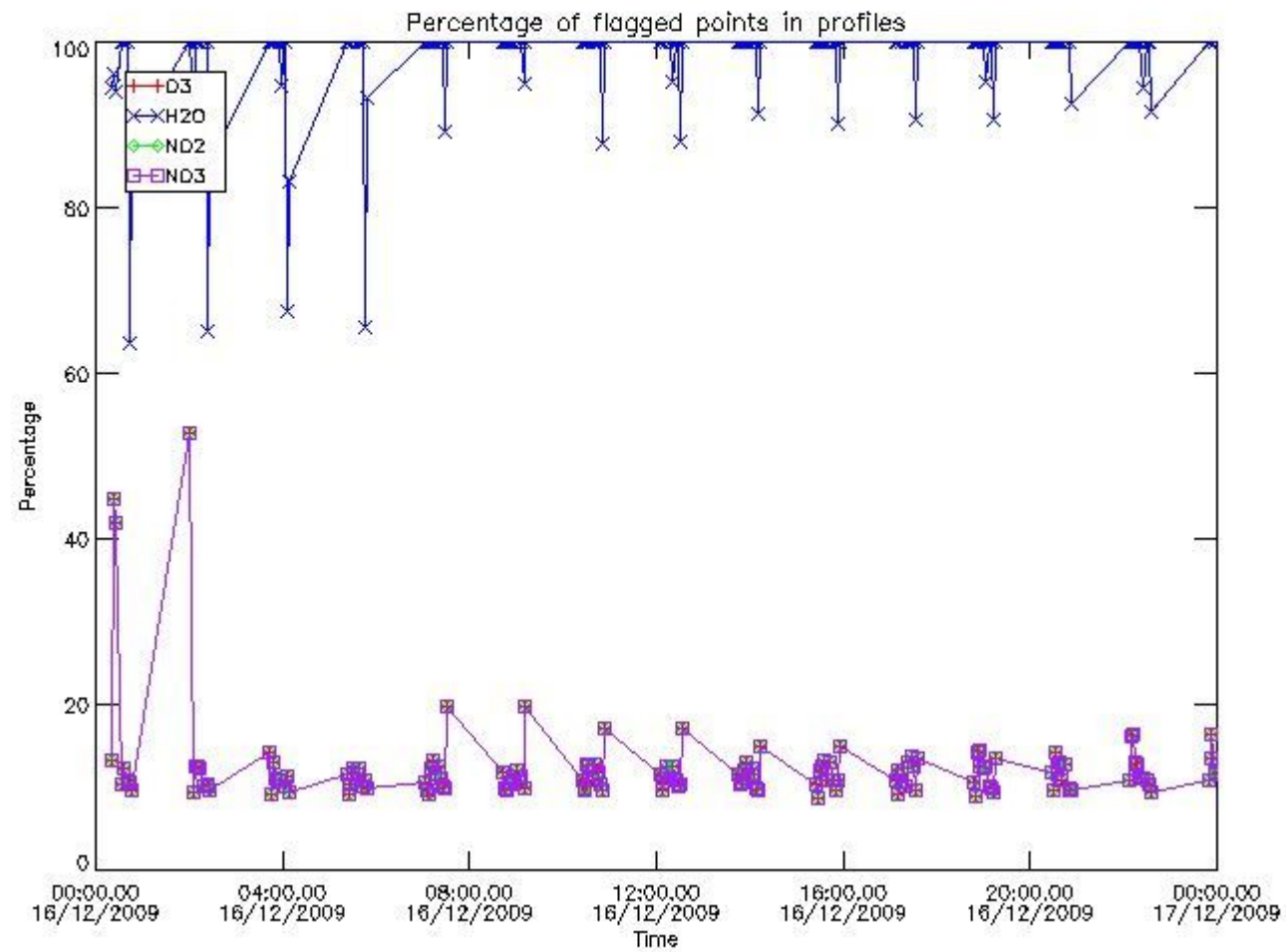


397	GOM_NL__2PRFIN20091216_234534_000000572085_00130_40765_7150.N1	16-DEC-2009 23:45:34	Twilight_stray	56.500	15	67Alp Vir	0.97600	28000.	113	40765	No
398	GOM_NL__2PRFIN20091216_234904_000000472085_00130_40765_7151.N1	16-DEC-2009 23:49:04	Dark	47.000	169	46Gam Hya	2.9910	4700.0	94	40765	No
399	GOM_NL__2PRFIN20091216_235138_000000532085_00130_40765_7152.N1	16-DEC-2009 23:51:38	Dark	53.000	106	9Bet Crv	2.6480	5600.0	106	40765	No
400	GOM_NL__2PRFIN20091216_235318_000000312085_00130_40765_7153.N1	16-DEC-2009 23:53:18	Dark	31.000	171	2Eps Crv	3.0010	4250.0	62	40765	No
401	GOM_NL__2PRFIN20091216_235622_000000452085_00130_40765_7154.N1	16-DEC-2009 23:56:22	Dark	44.500	64	Gam Cen	2.2000	10600.	89	40765	No
402	GOM_NL__2PRFIN20091216_235801_000000442085_00131_40766_7157.N1	16-DEC-2009 23:58:01	Dark	43.500	99	Del Cen	2.5750	26000.	87	40766	No

### 3. Quality information per product

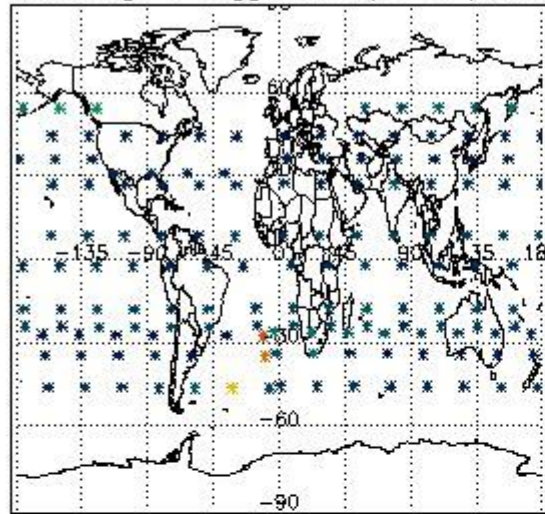
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

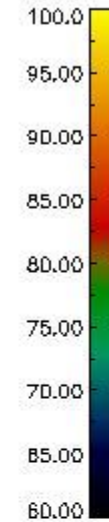
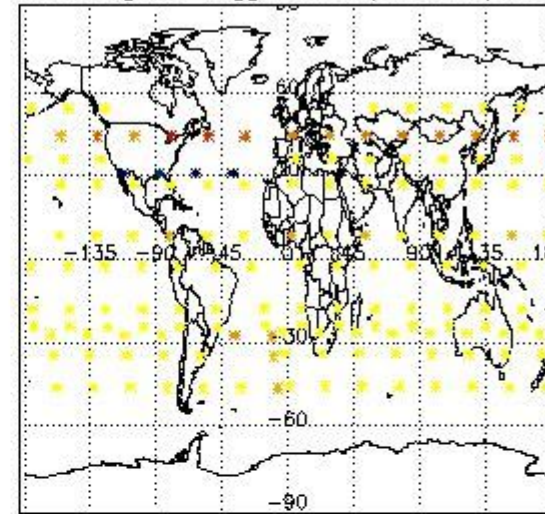


#### 3.2 Plot quality information per product (world map)

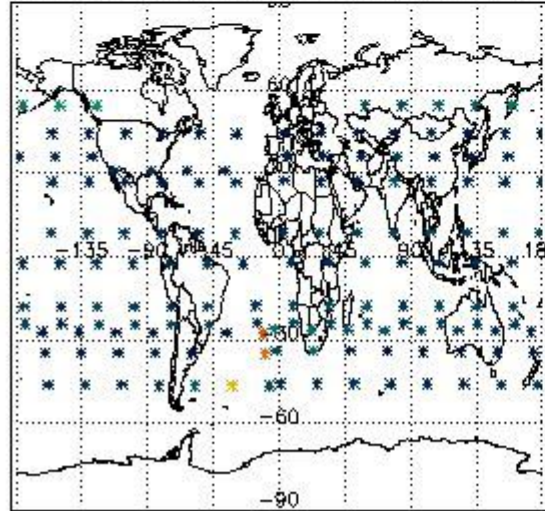
Percentage of flagged data per O3 profile



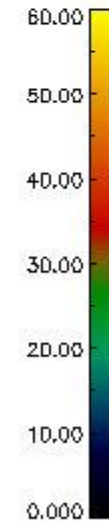
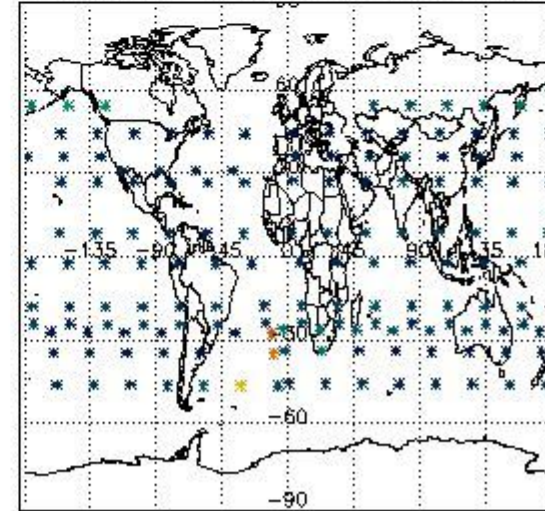
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

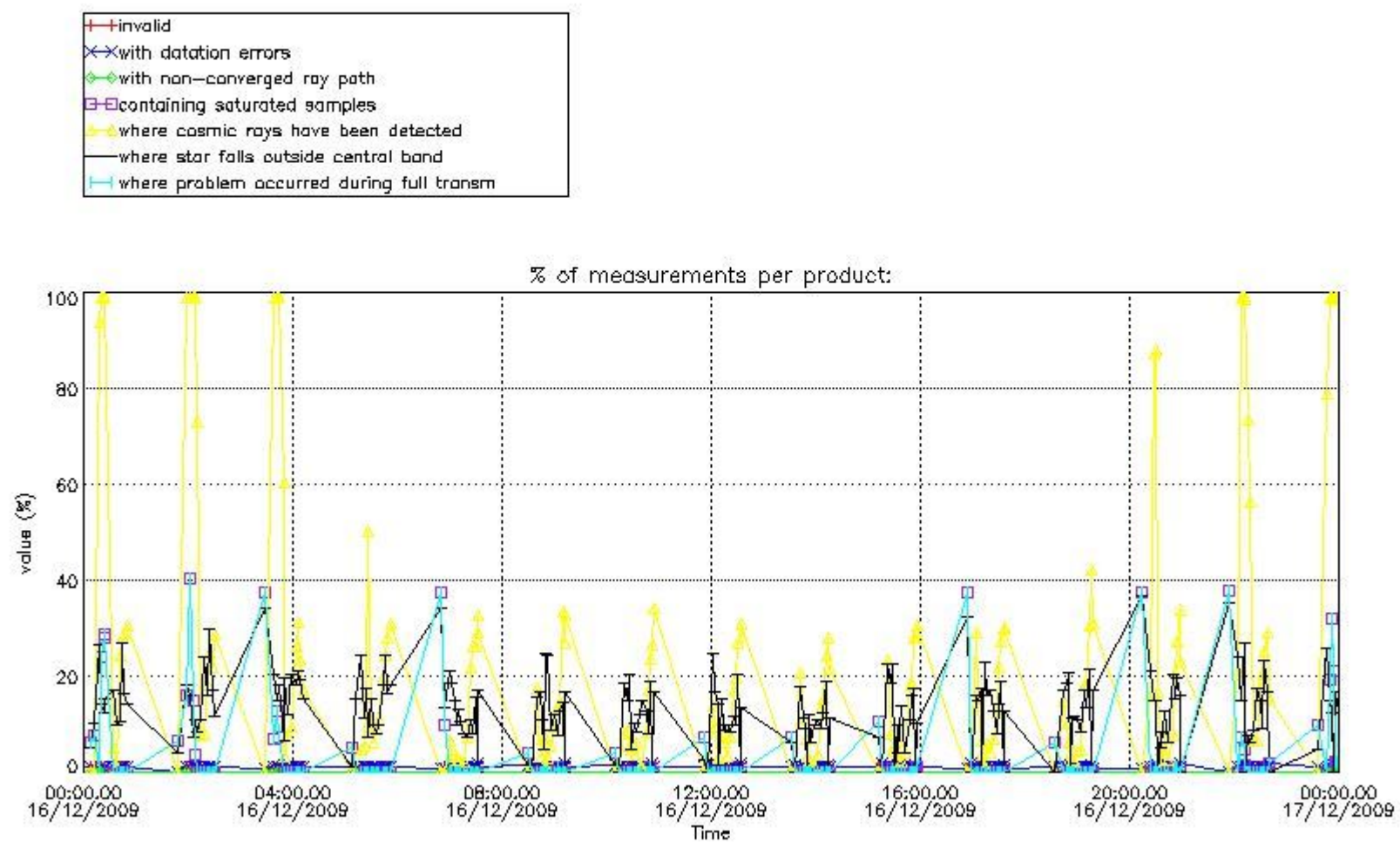


#### 4. Level 1 quality information per product

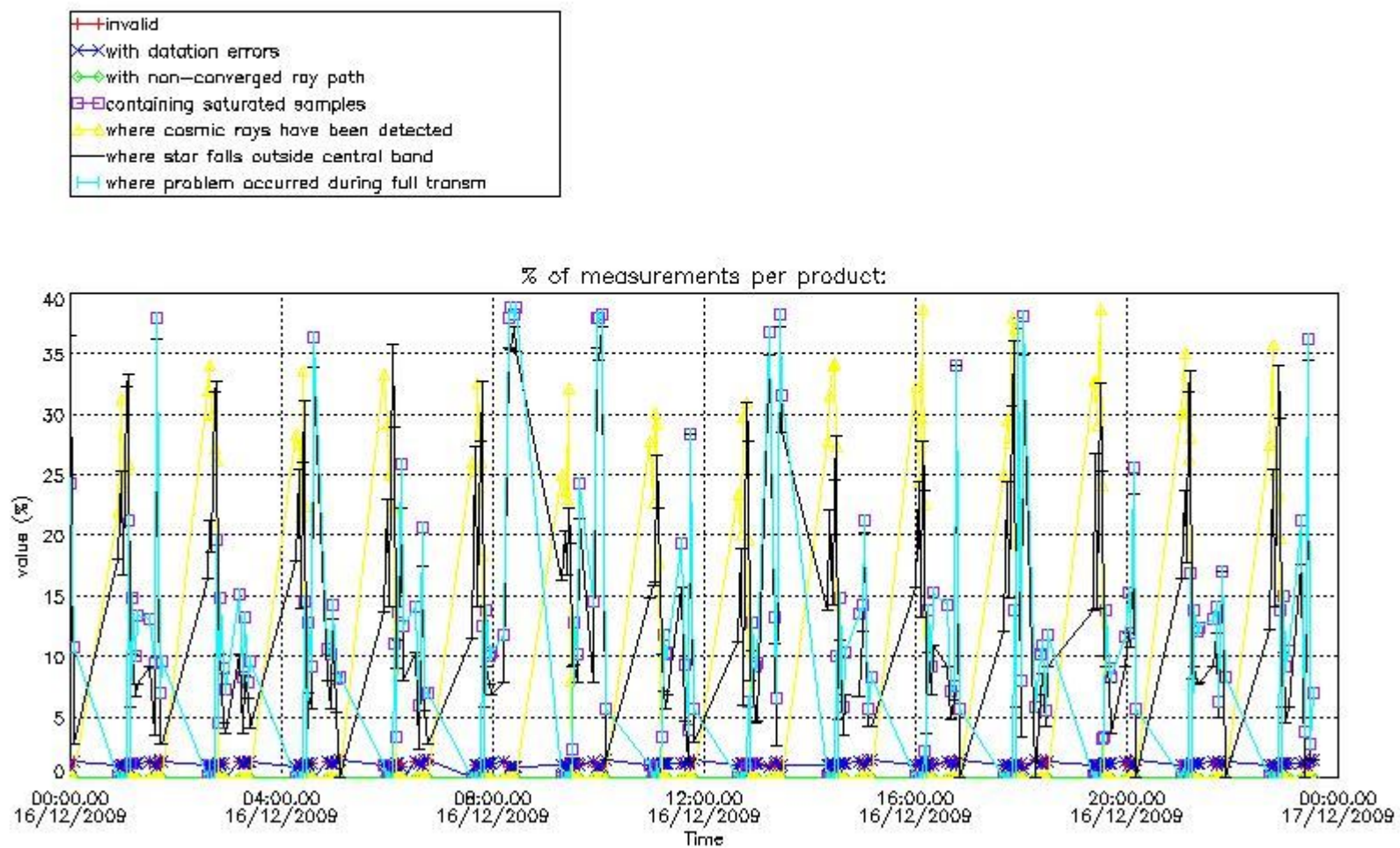
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



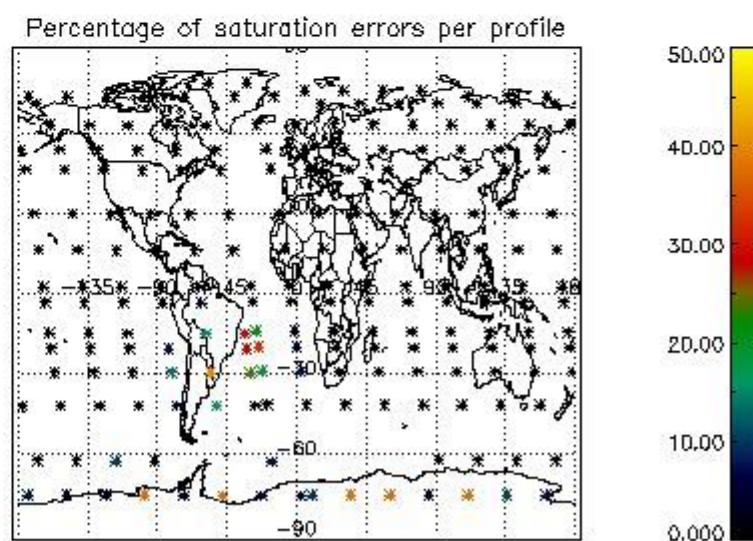
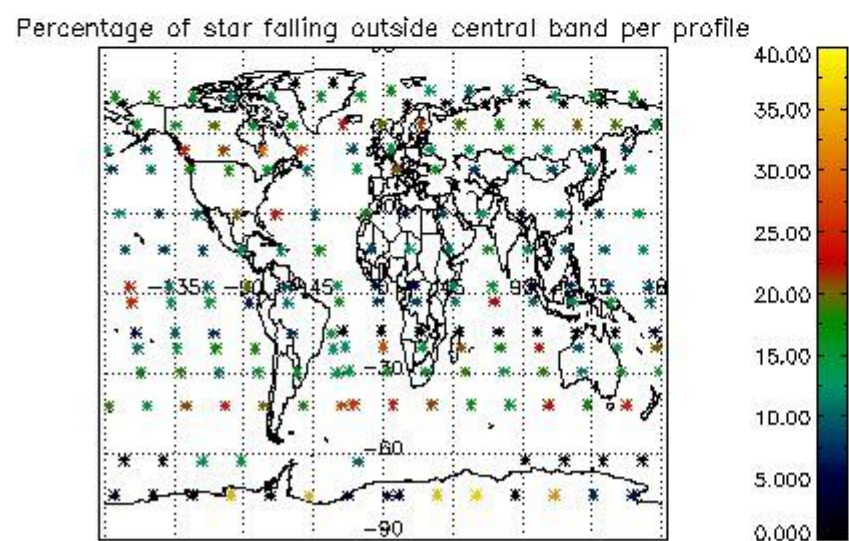
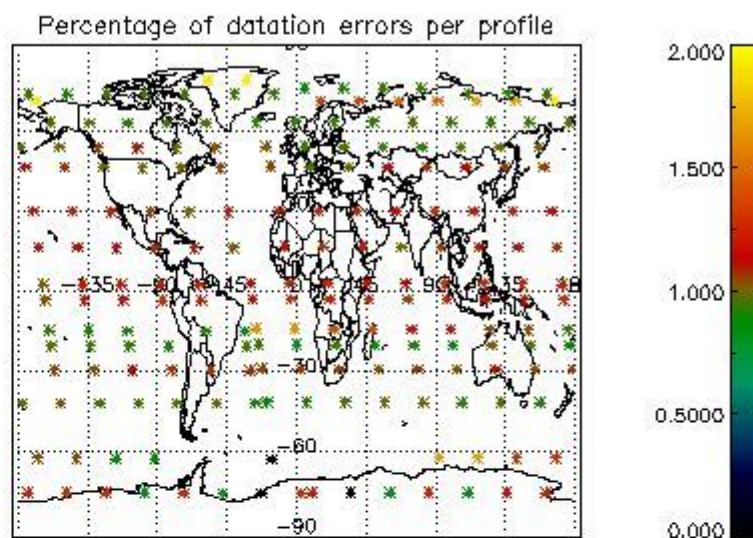
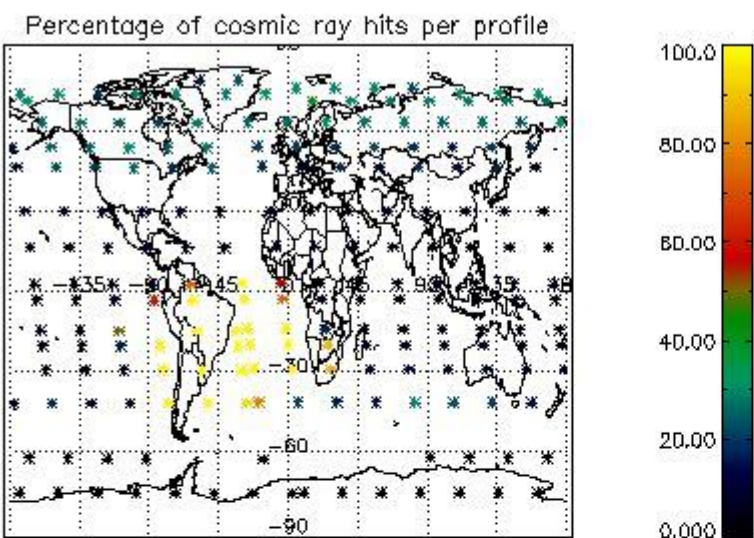
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



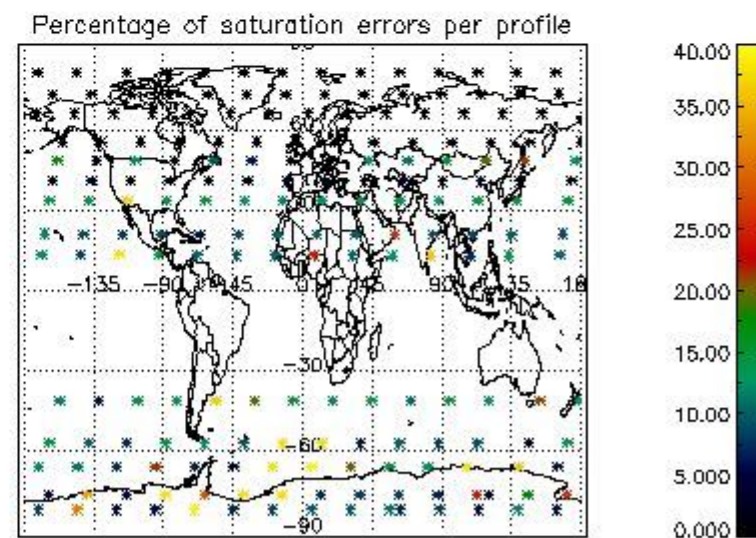
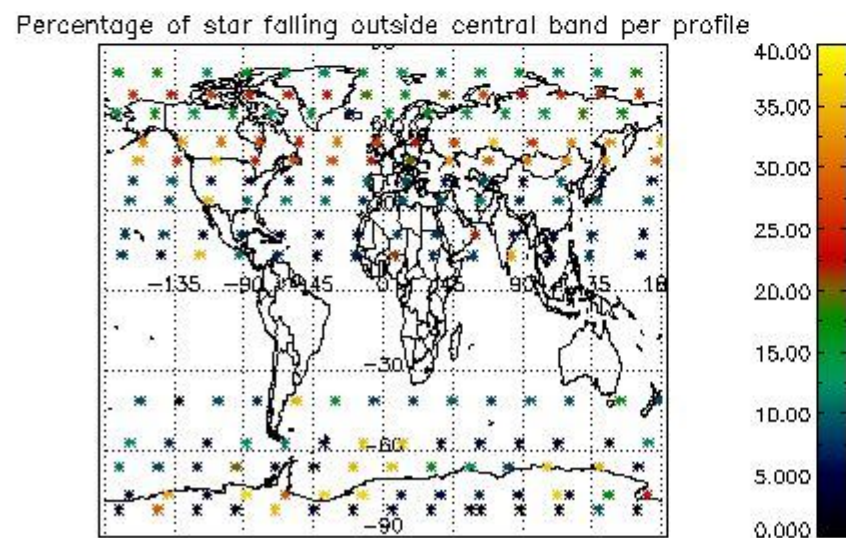
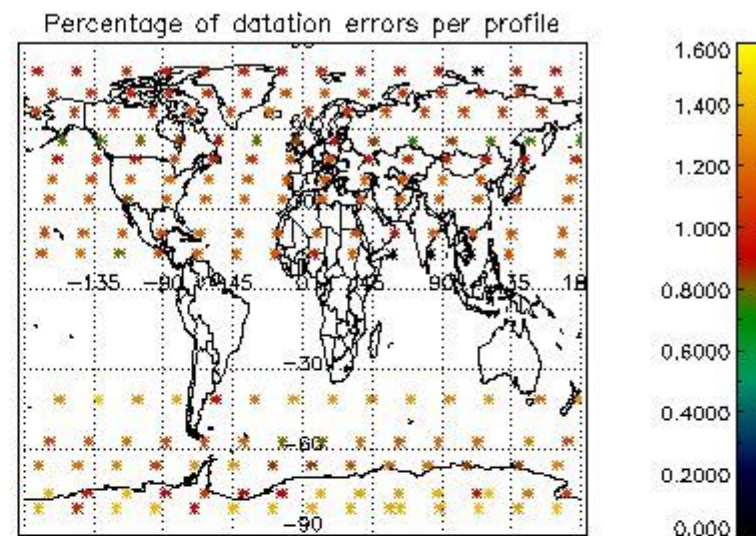
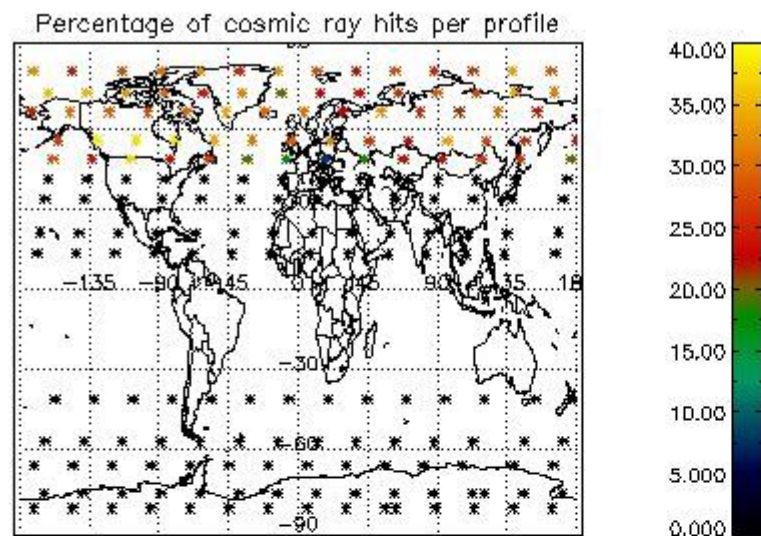
#### 4.2 Plot quality information per product coming from level 1b processing (world map)

##### 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

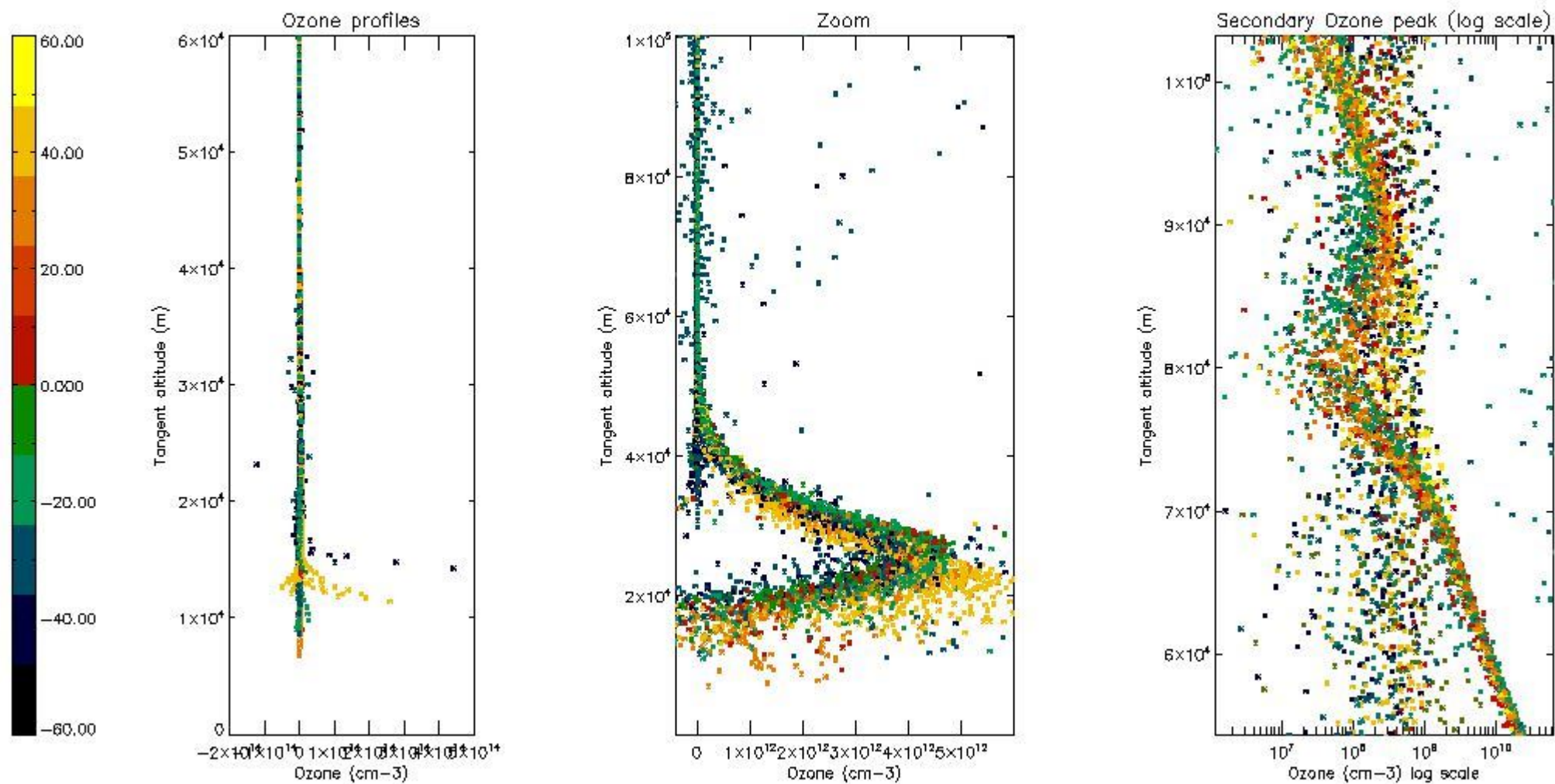
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	14

STD < 10	10
STD < 5	6

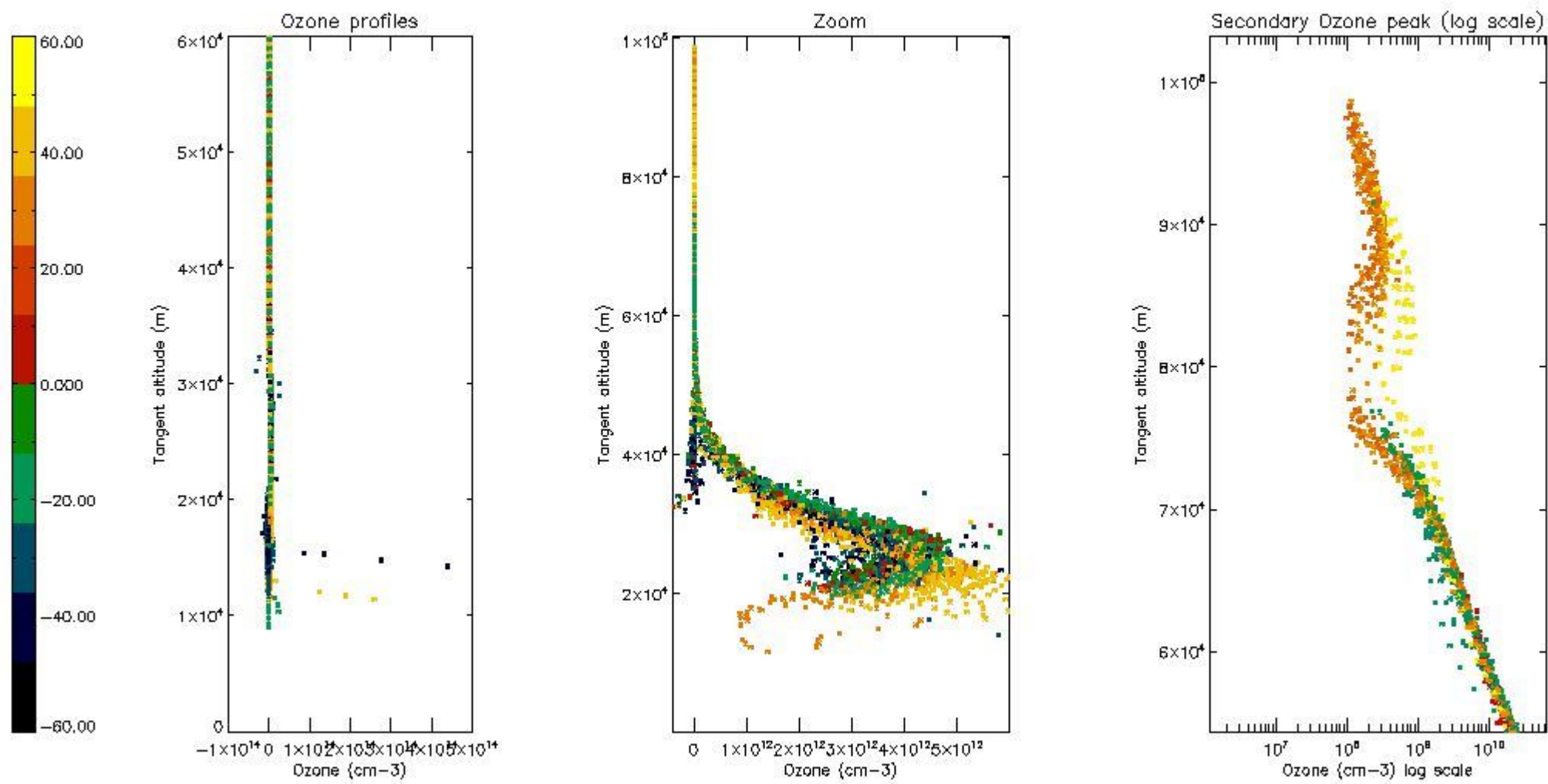
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



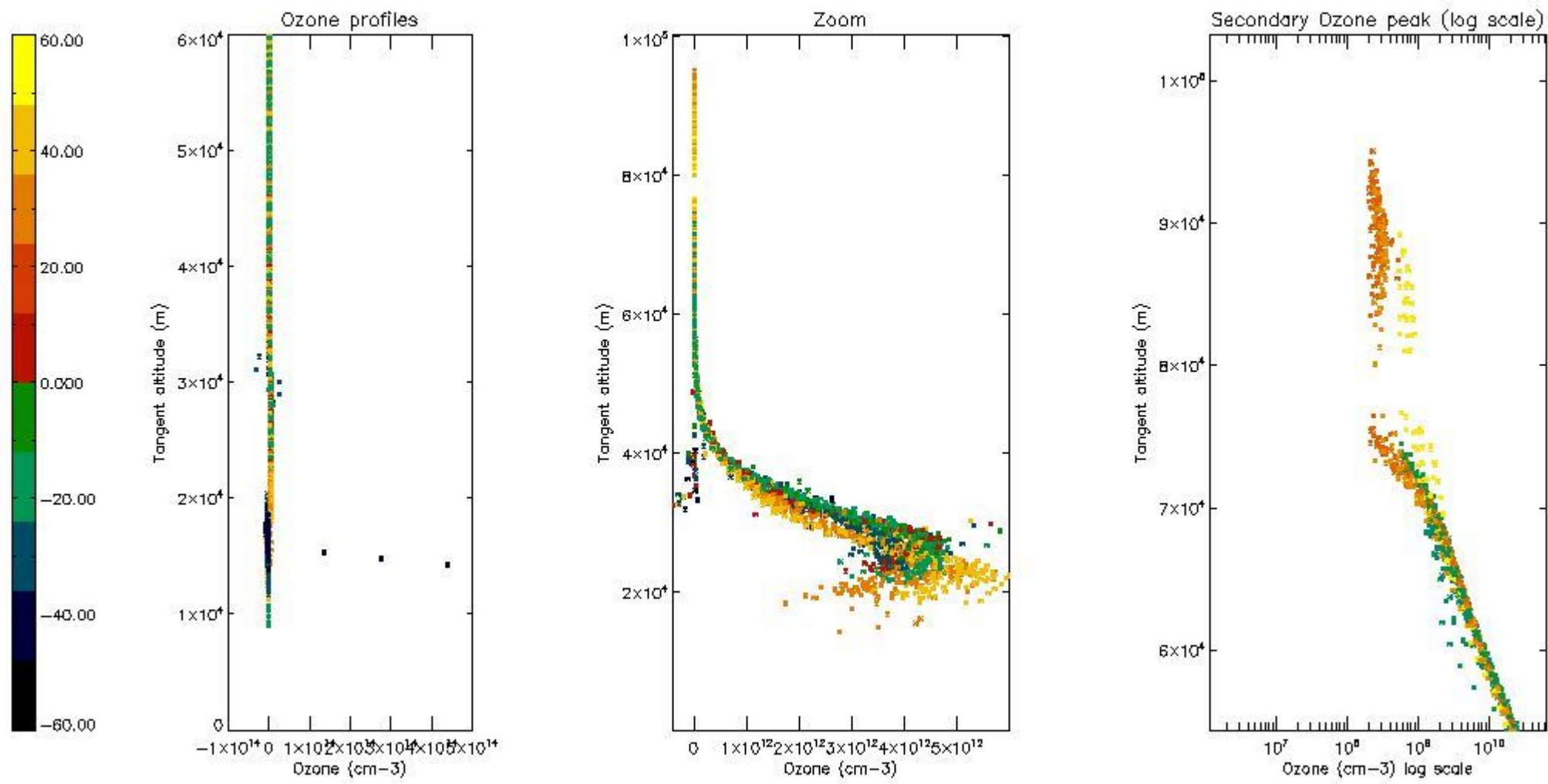
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



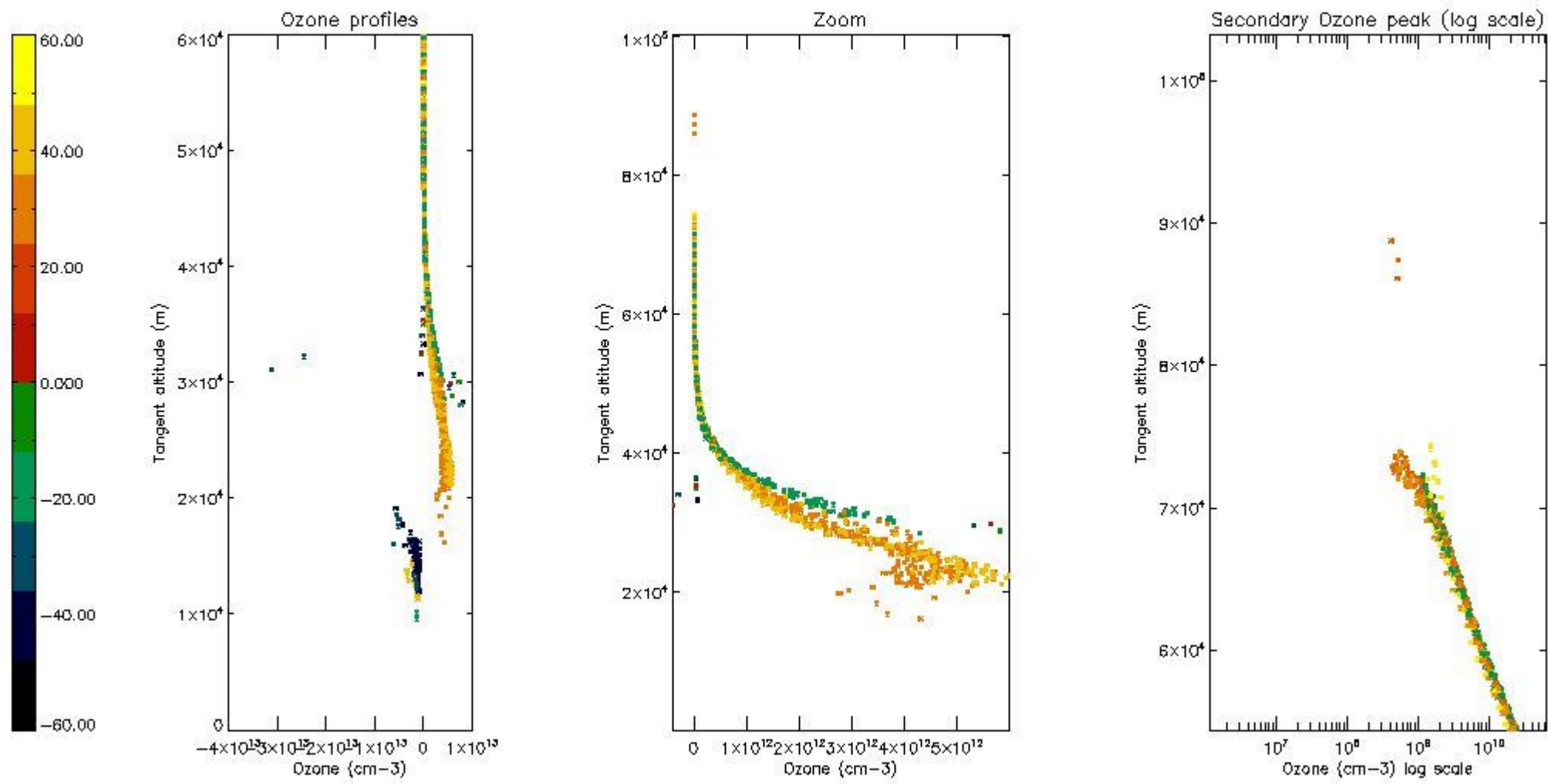
5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)

The colorbar represents the latitude.



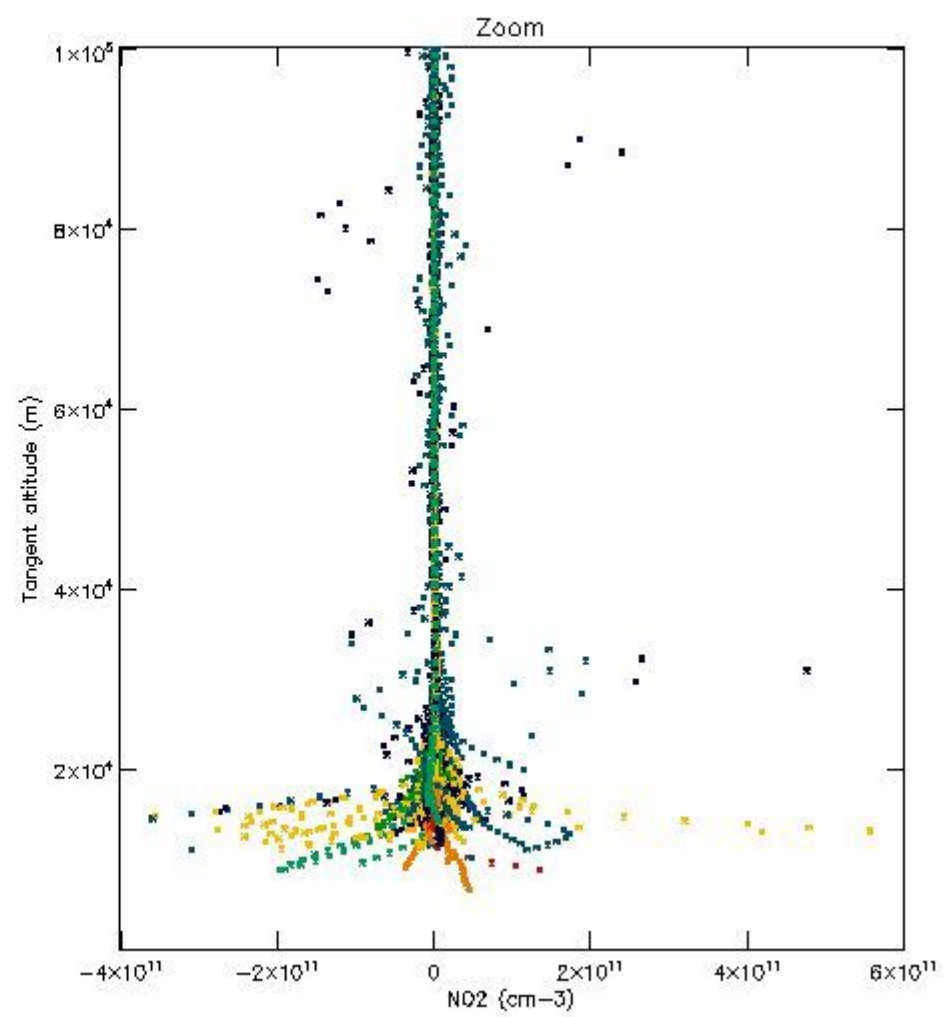
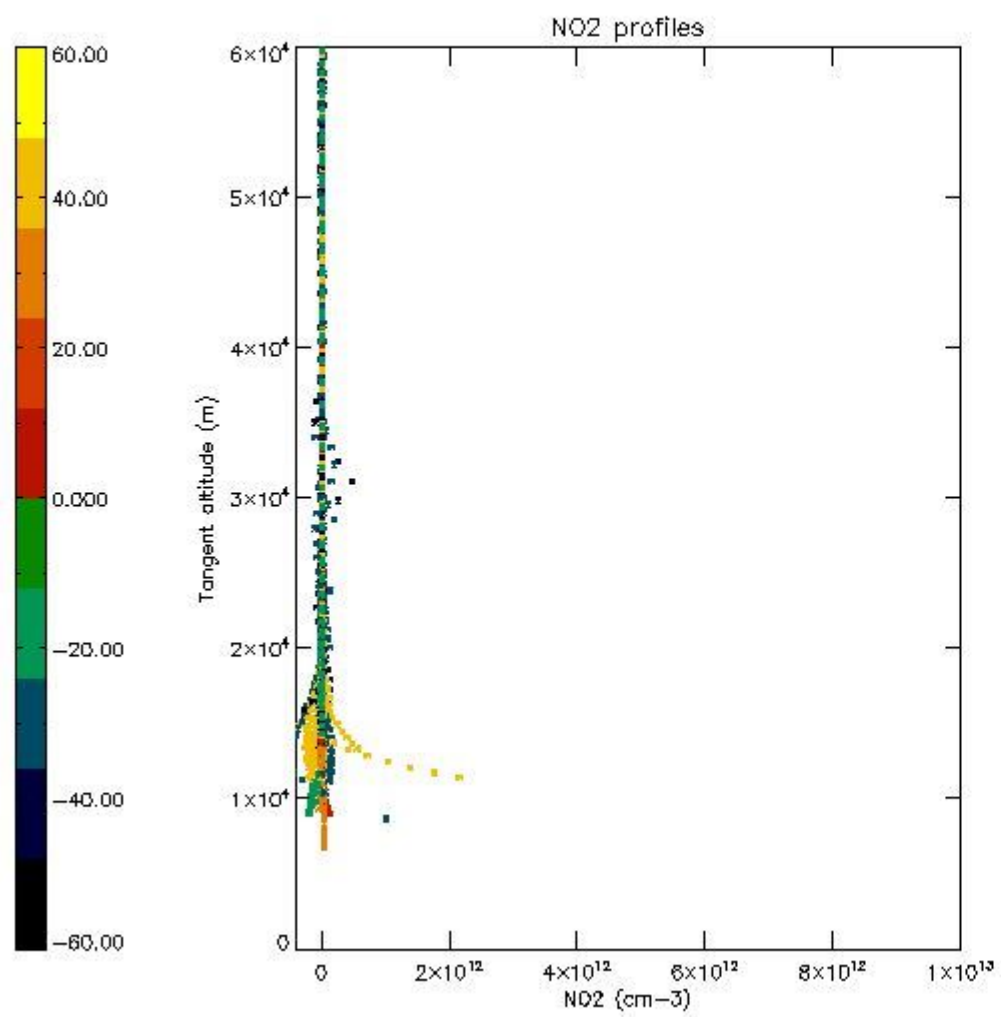
*5.5 Plot ozone profiles where  $STD < 5\%$  (dark without errors)*

The colorbar represents the latitude.



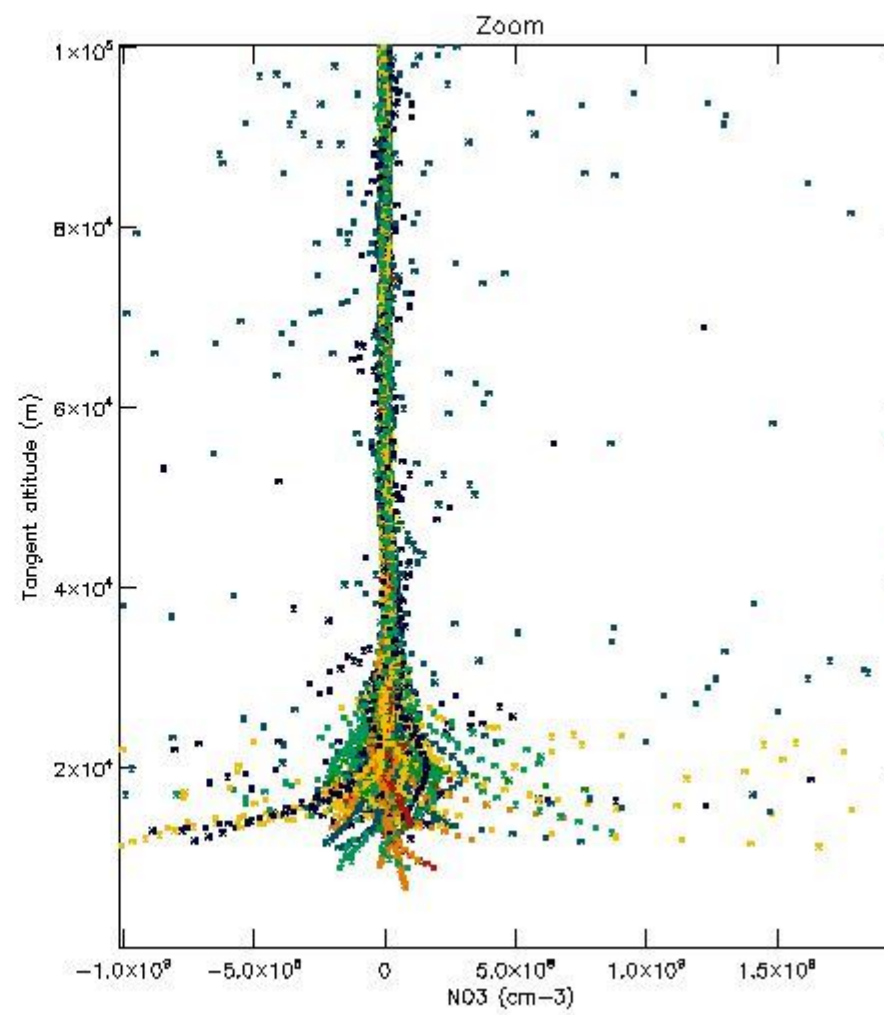
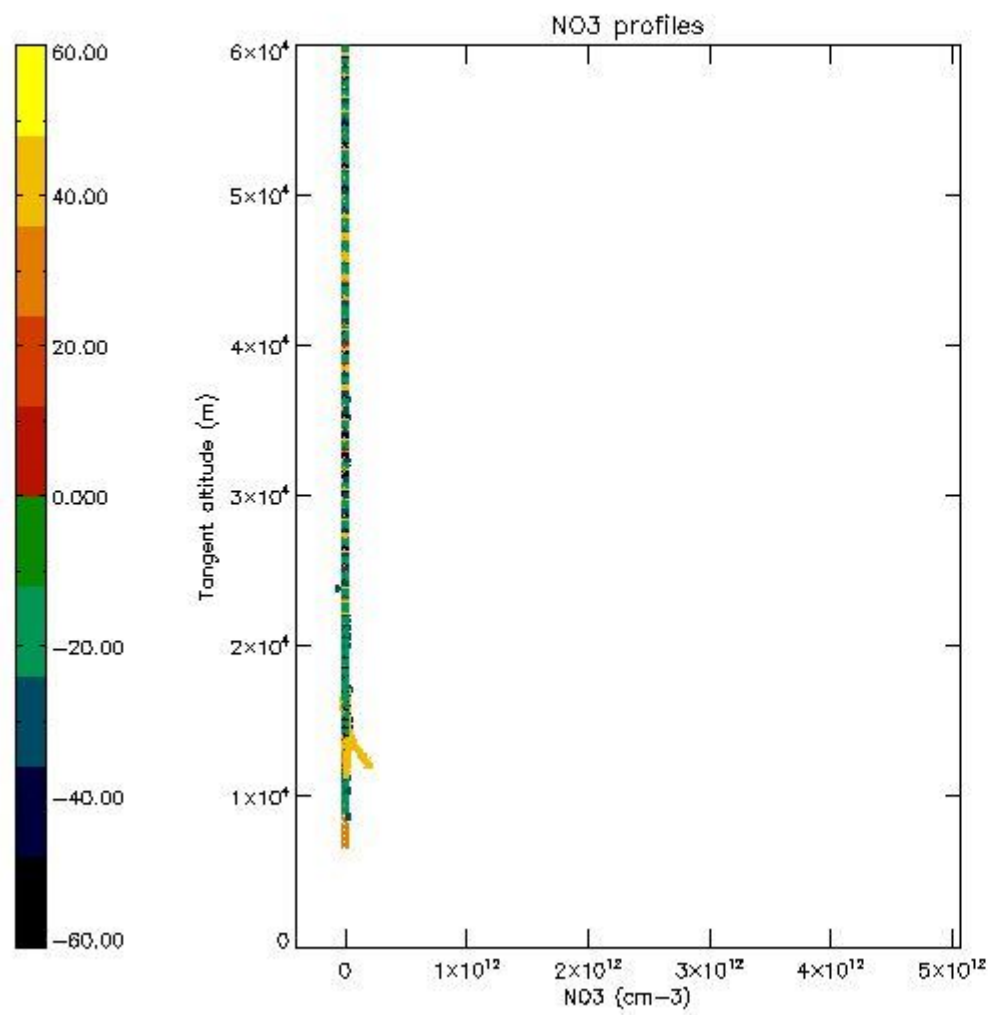
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.

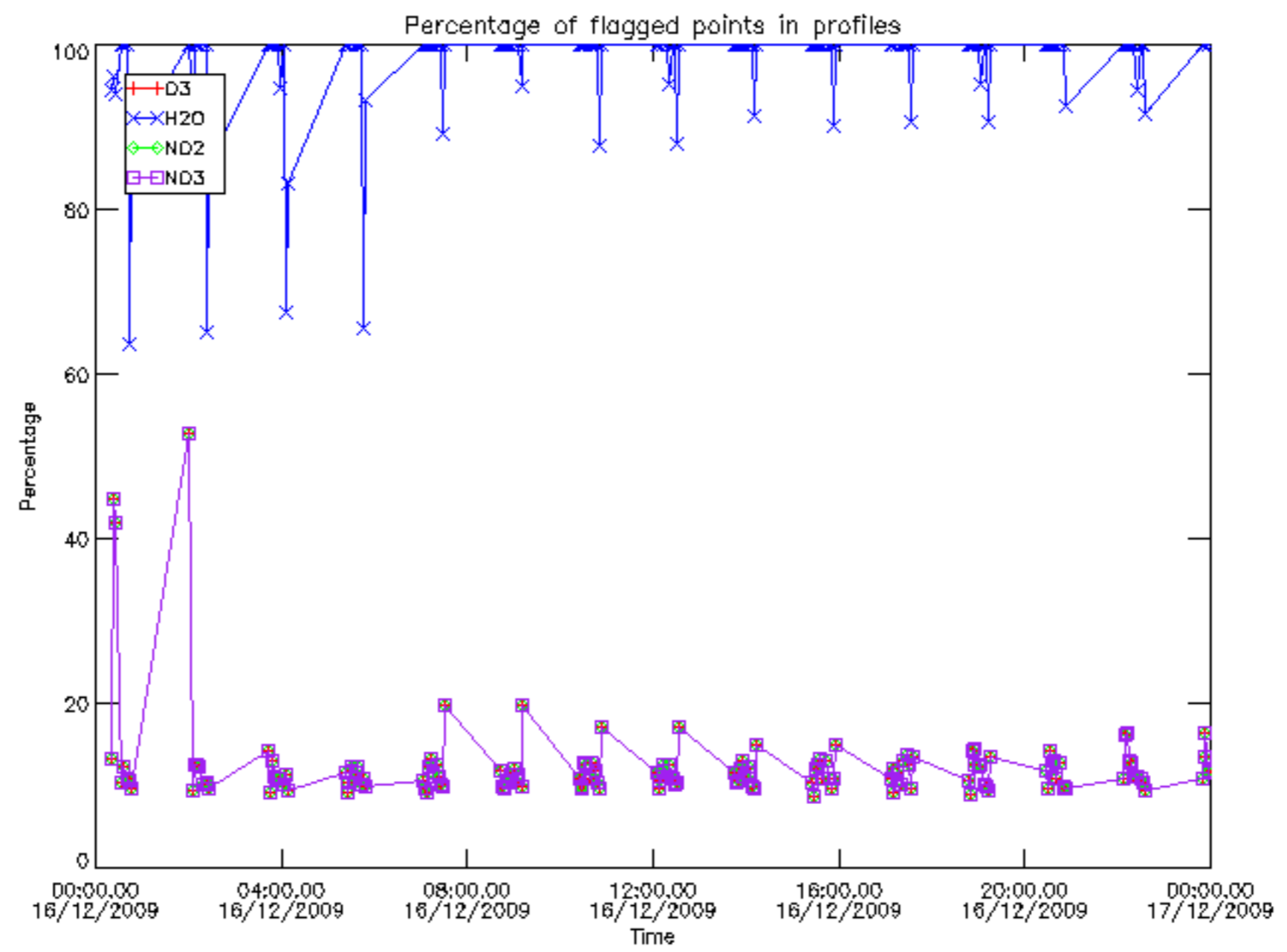


## 6. Auxiliary Data Files used for the production reported in section 2

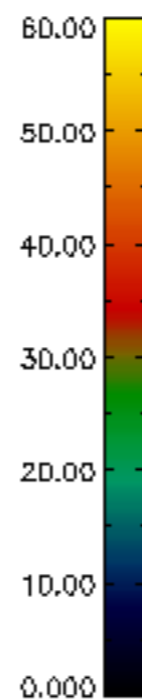
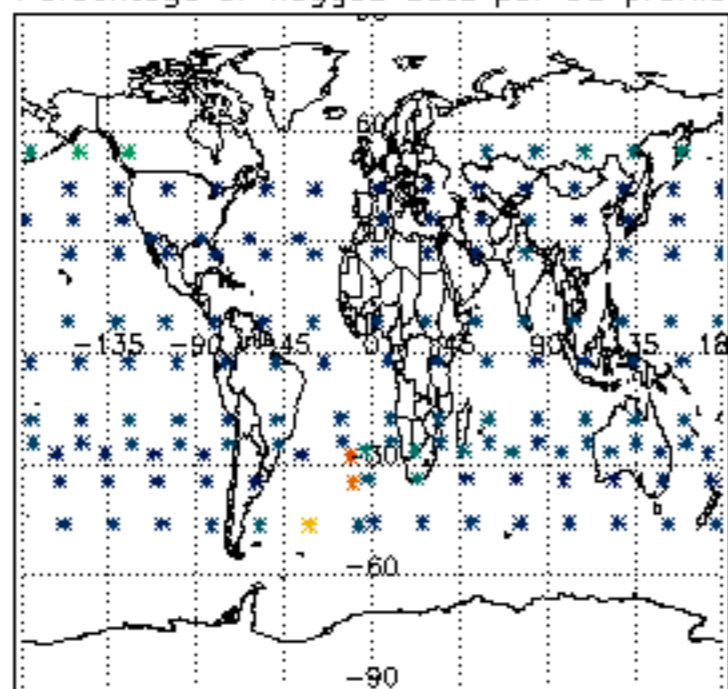
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	16-DEC-2009 00:00:32
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	16-DEC-2009 00:00:32
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	16-DEC-2009 00:00:32

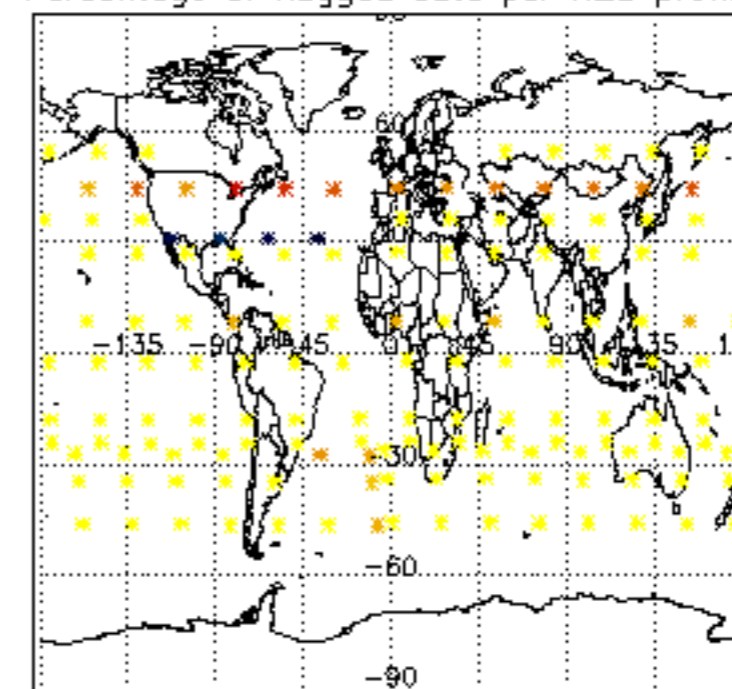




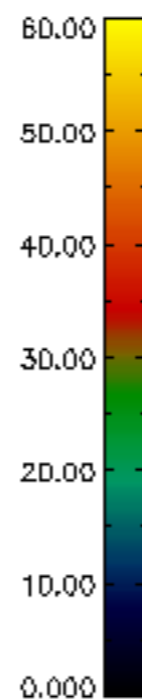
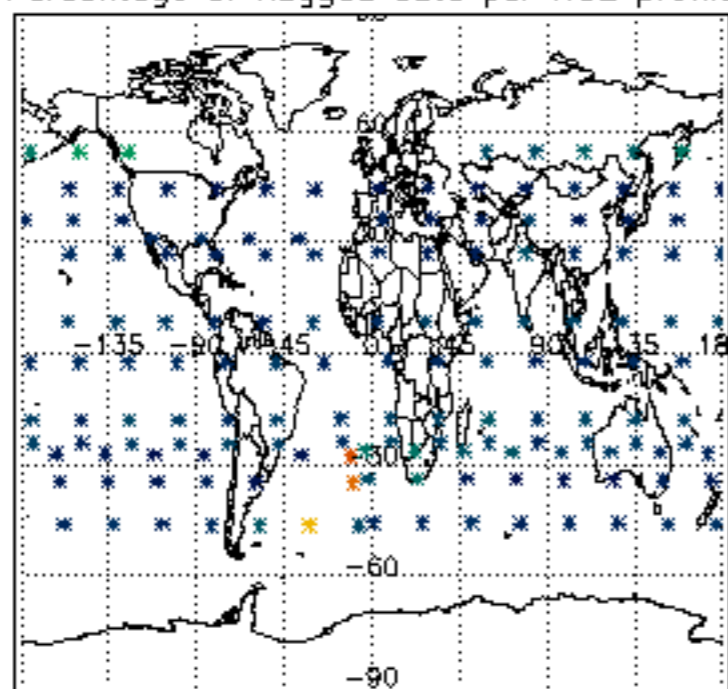
Percentage of flagged data per D3 profile



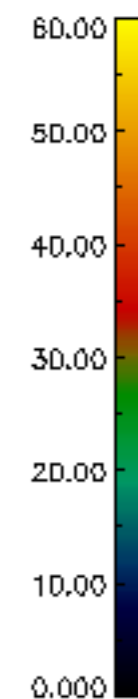
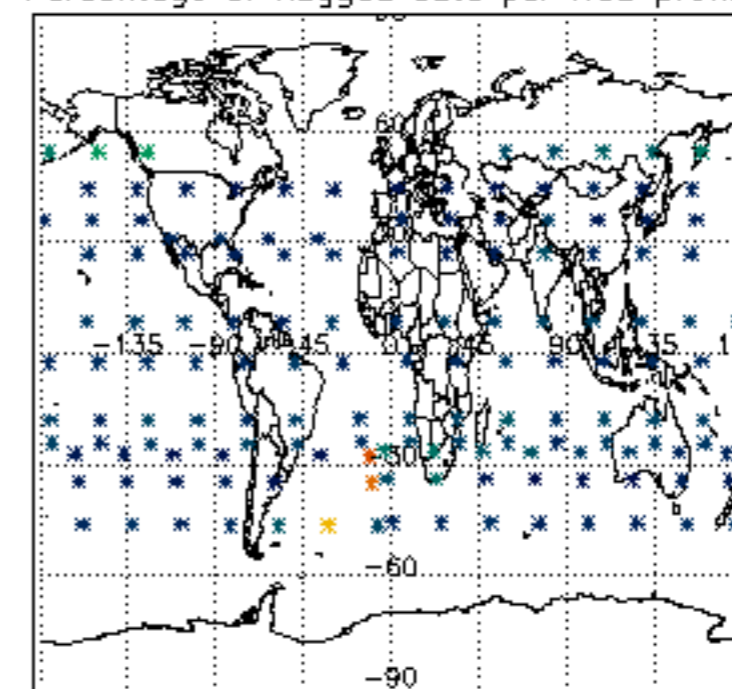
Percentage of flagged data per H2O profile

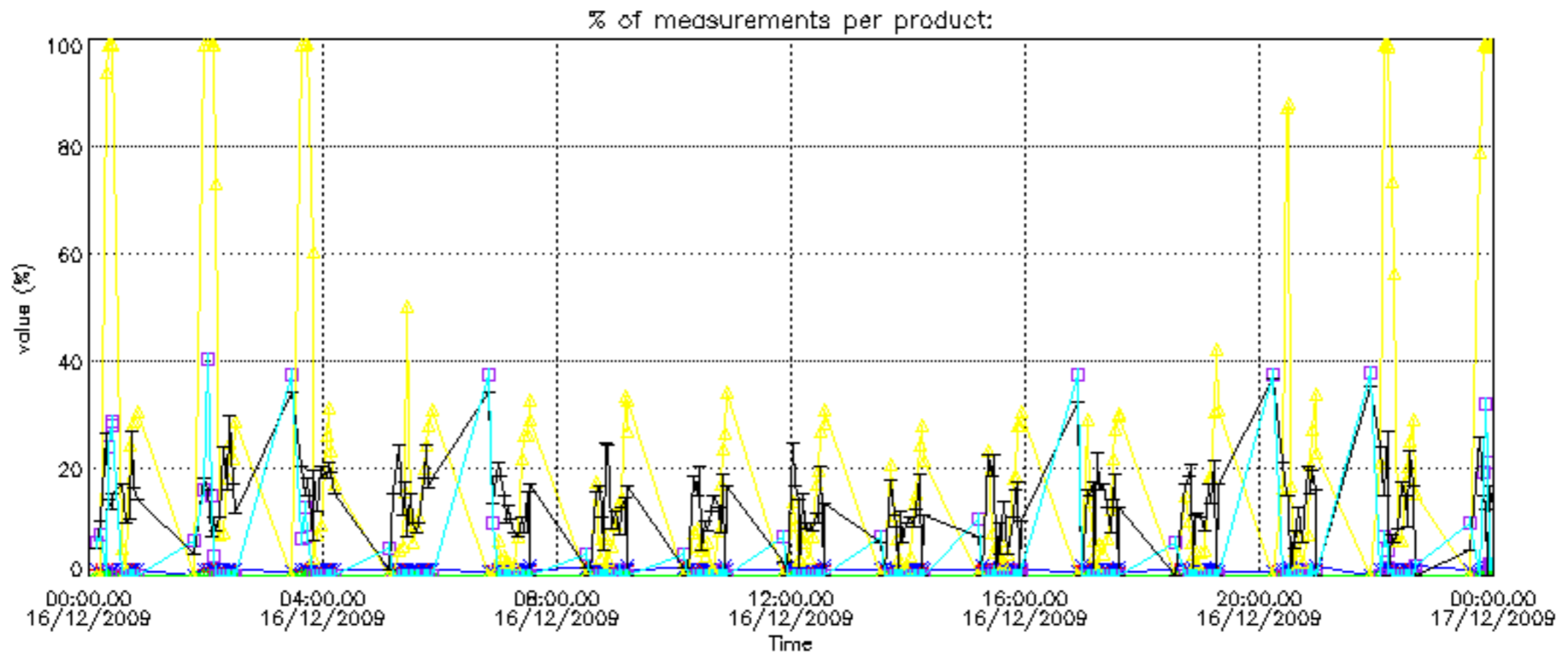


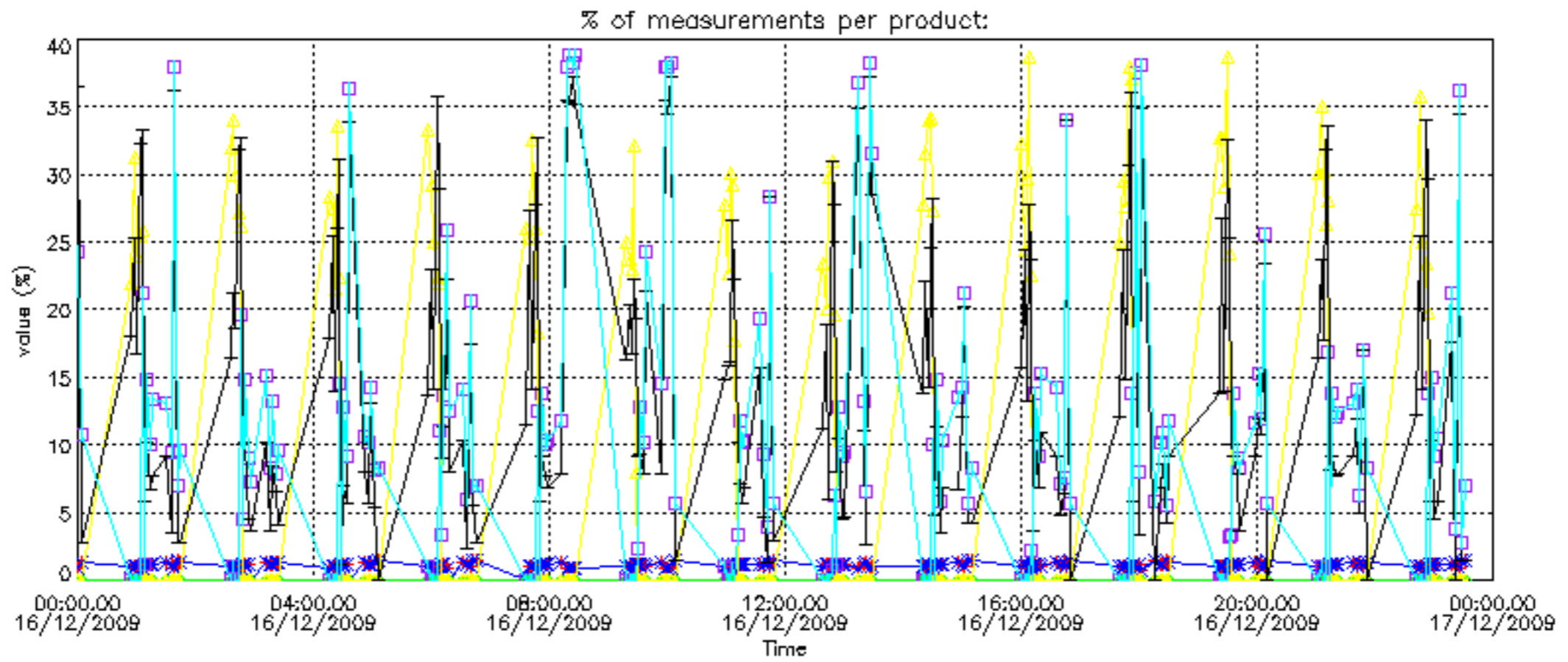
Percentage of flagged data per NO2 profile



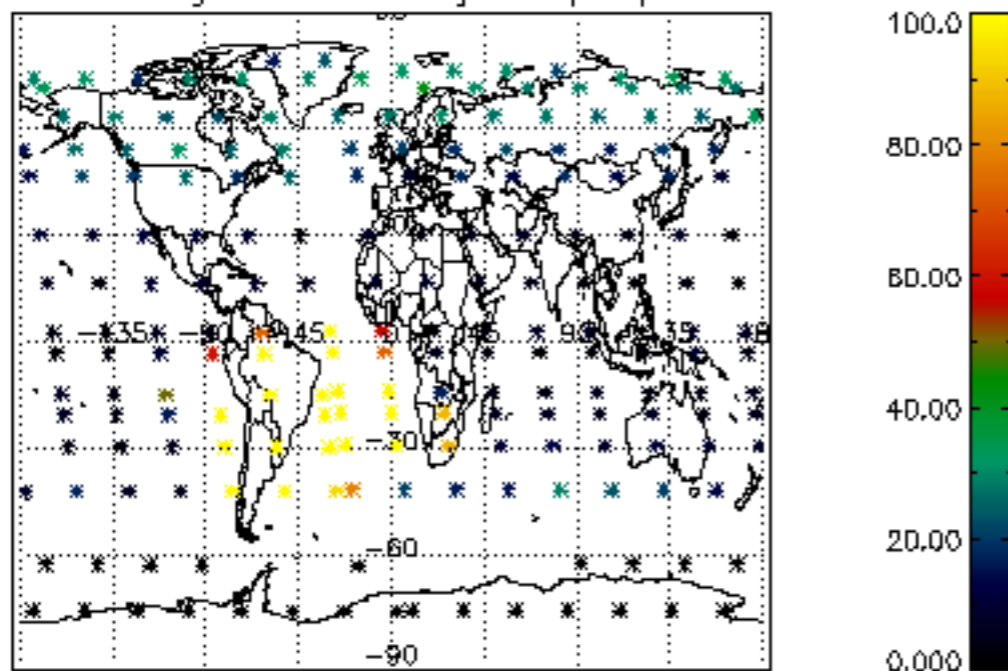
Percentage of flagged data per NO3 profile



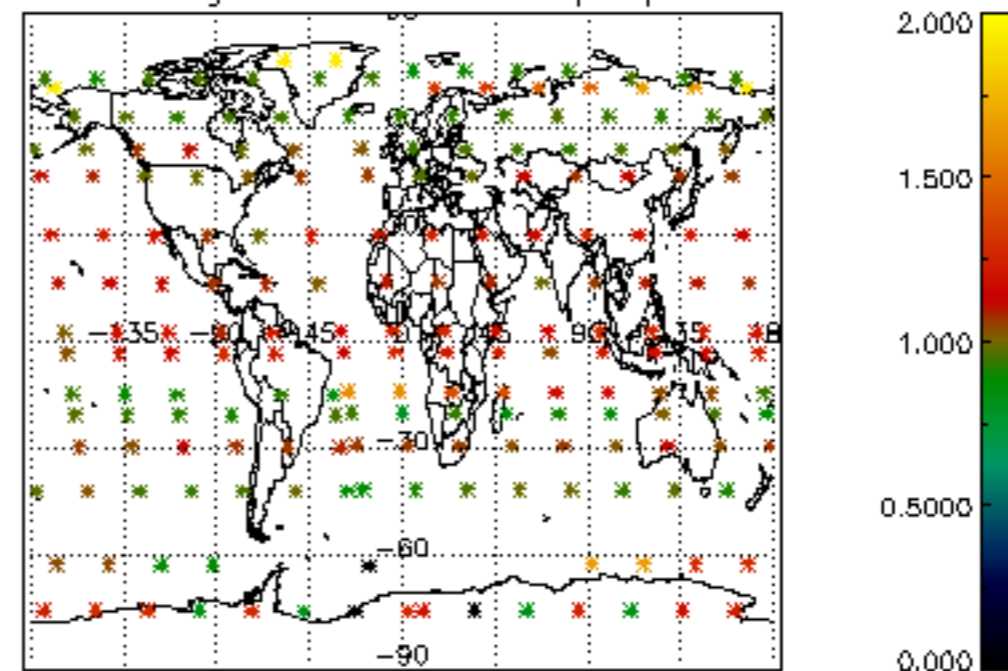




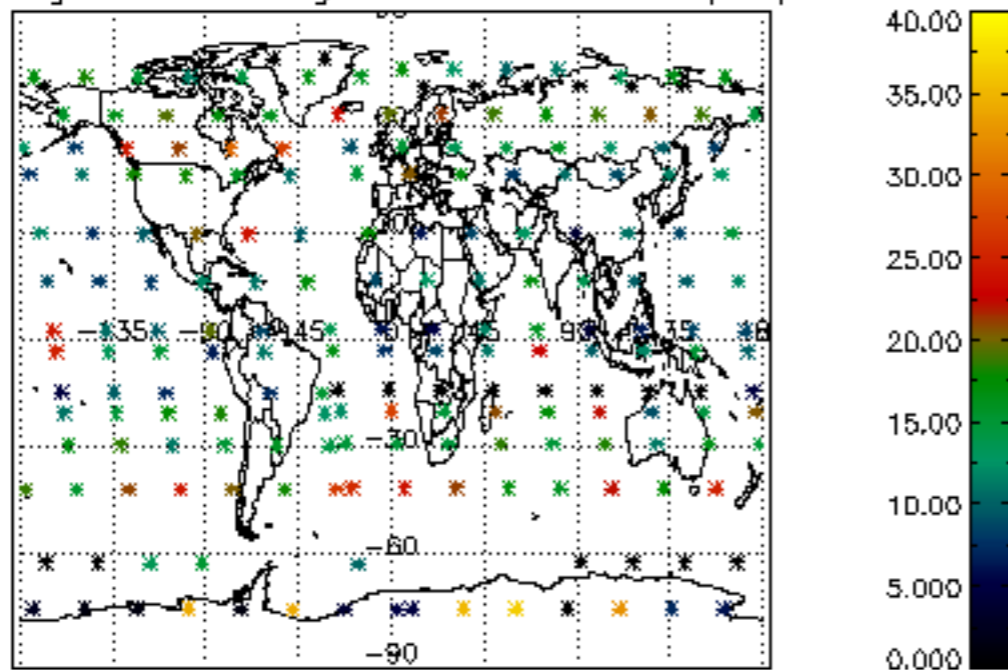
Percentage of cosmic ray hits per profile



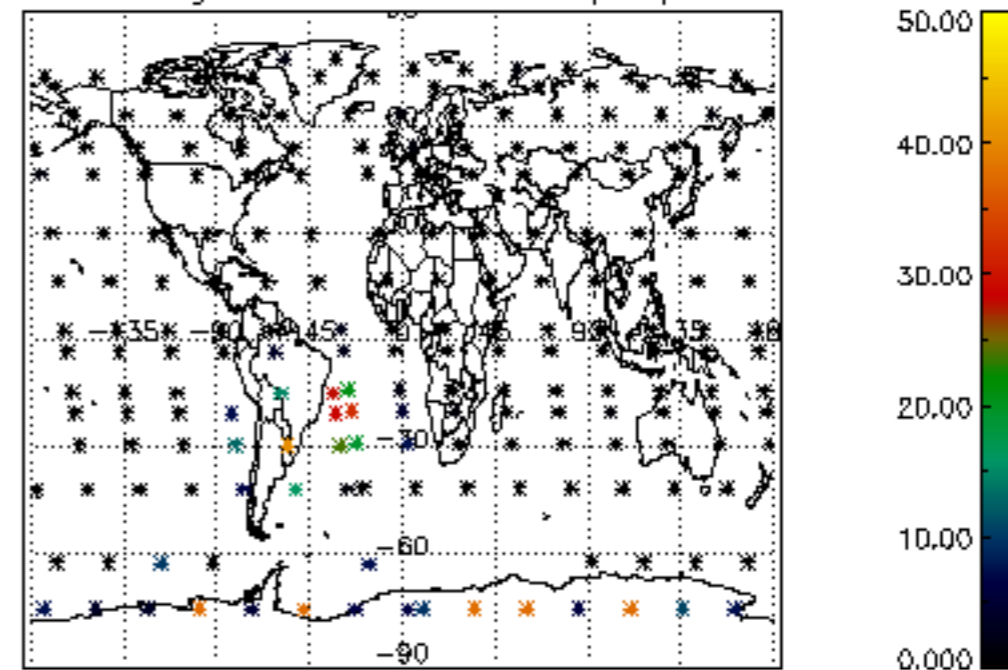
Percentage of datation errors per profile



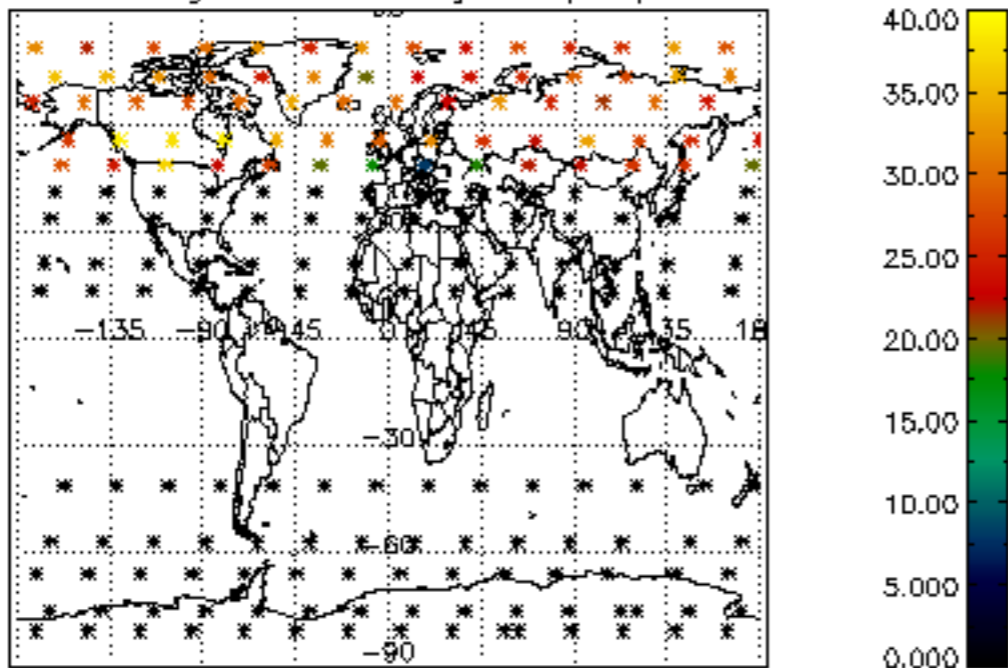
Percentage of star falling outside central band per profile



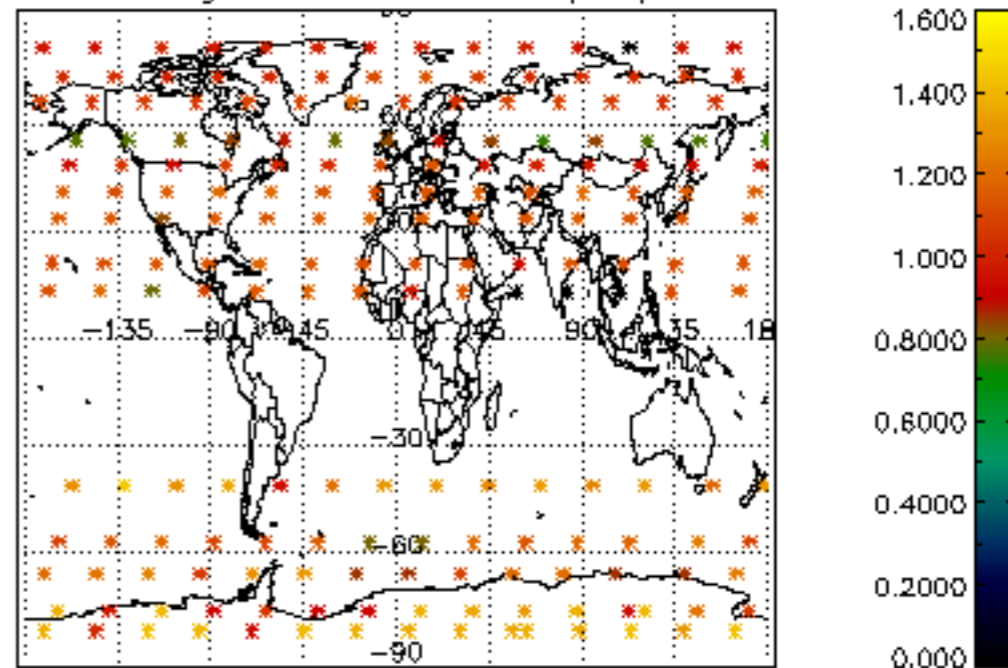
Percentage of saturation errors per profile



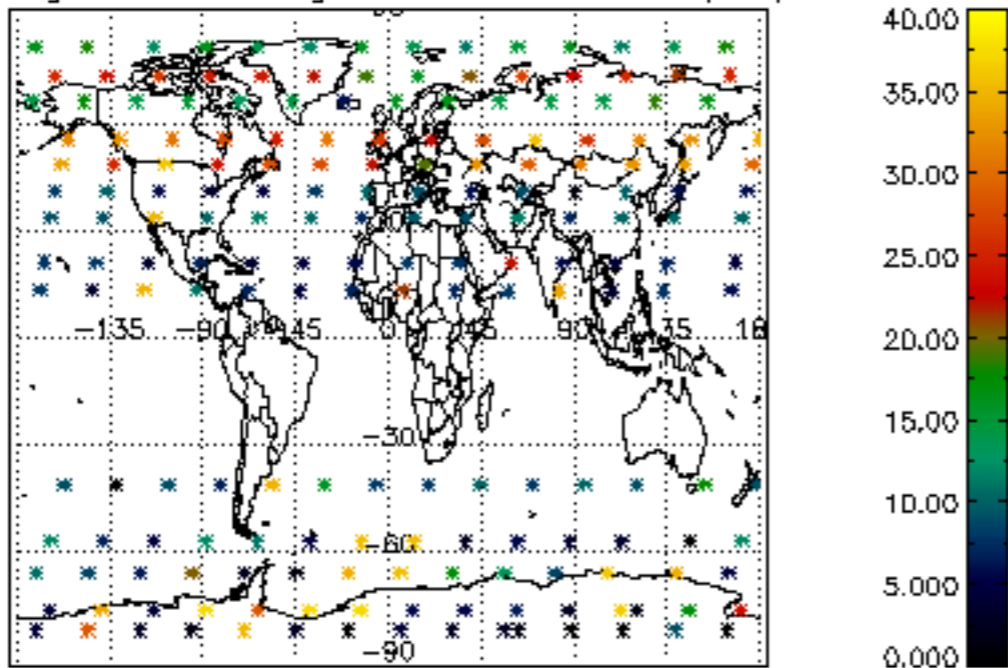
Percentage of cosmic ray hits per profile



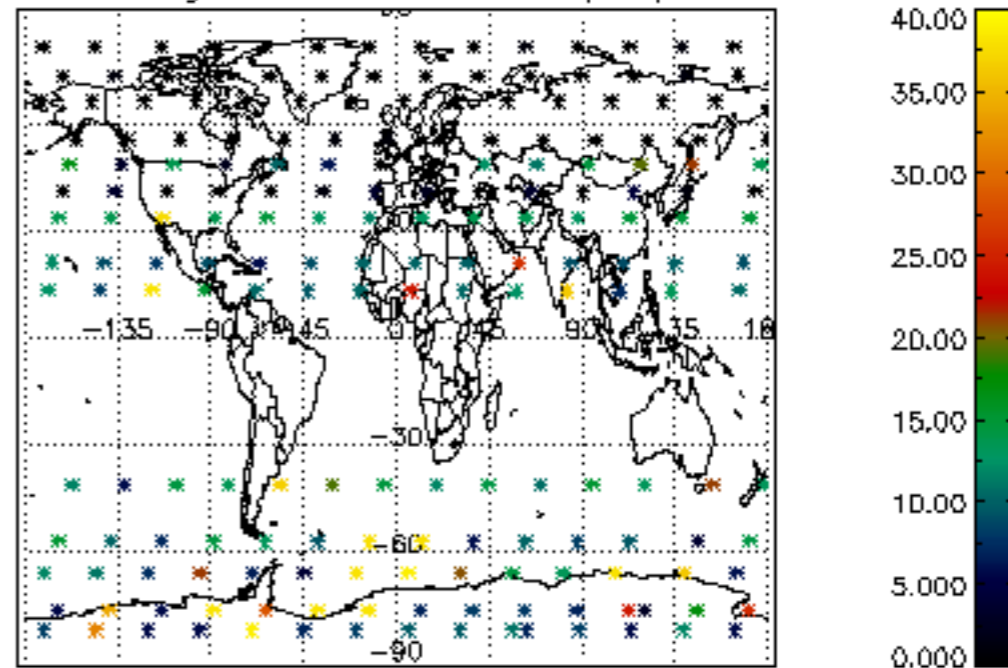
Percentage of datation errors per profile

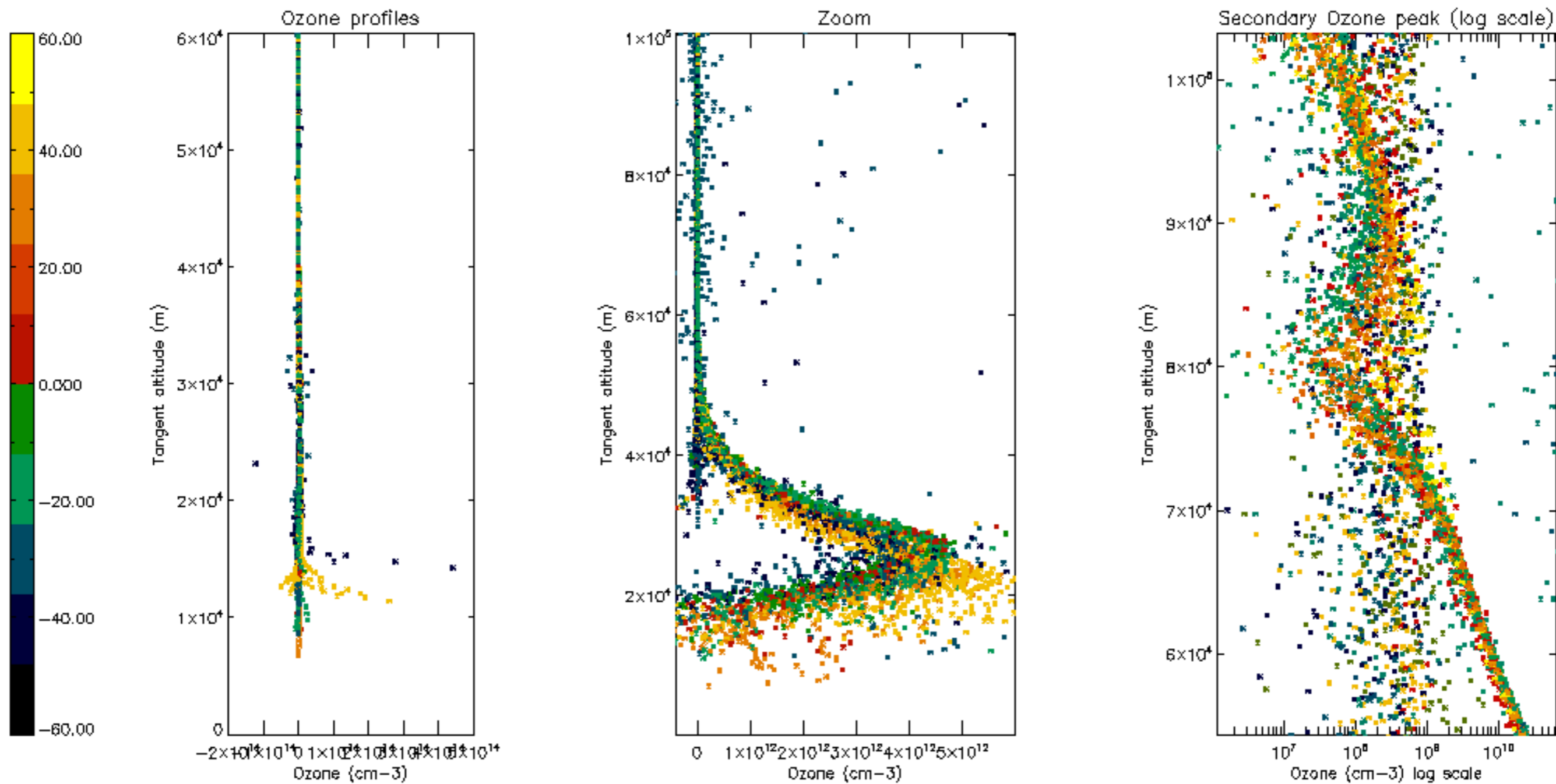


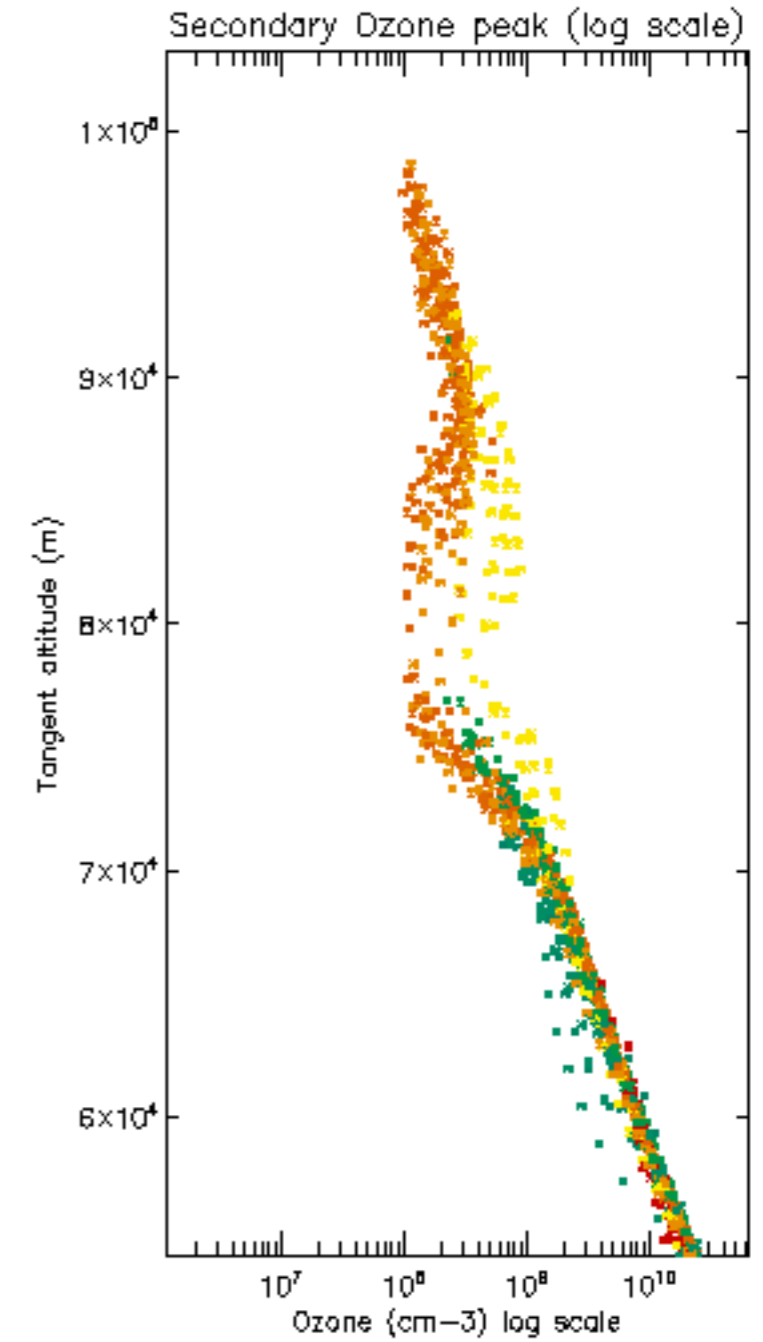
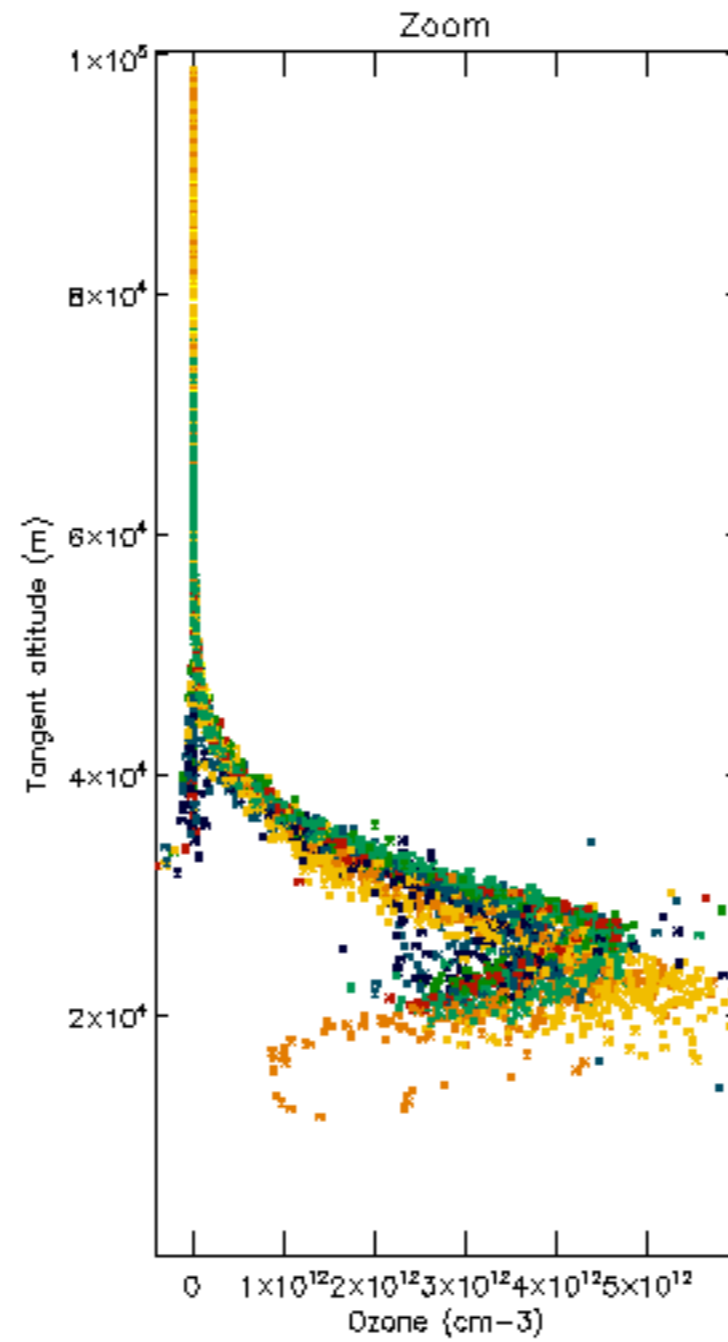
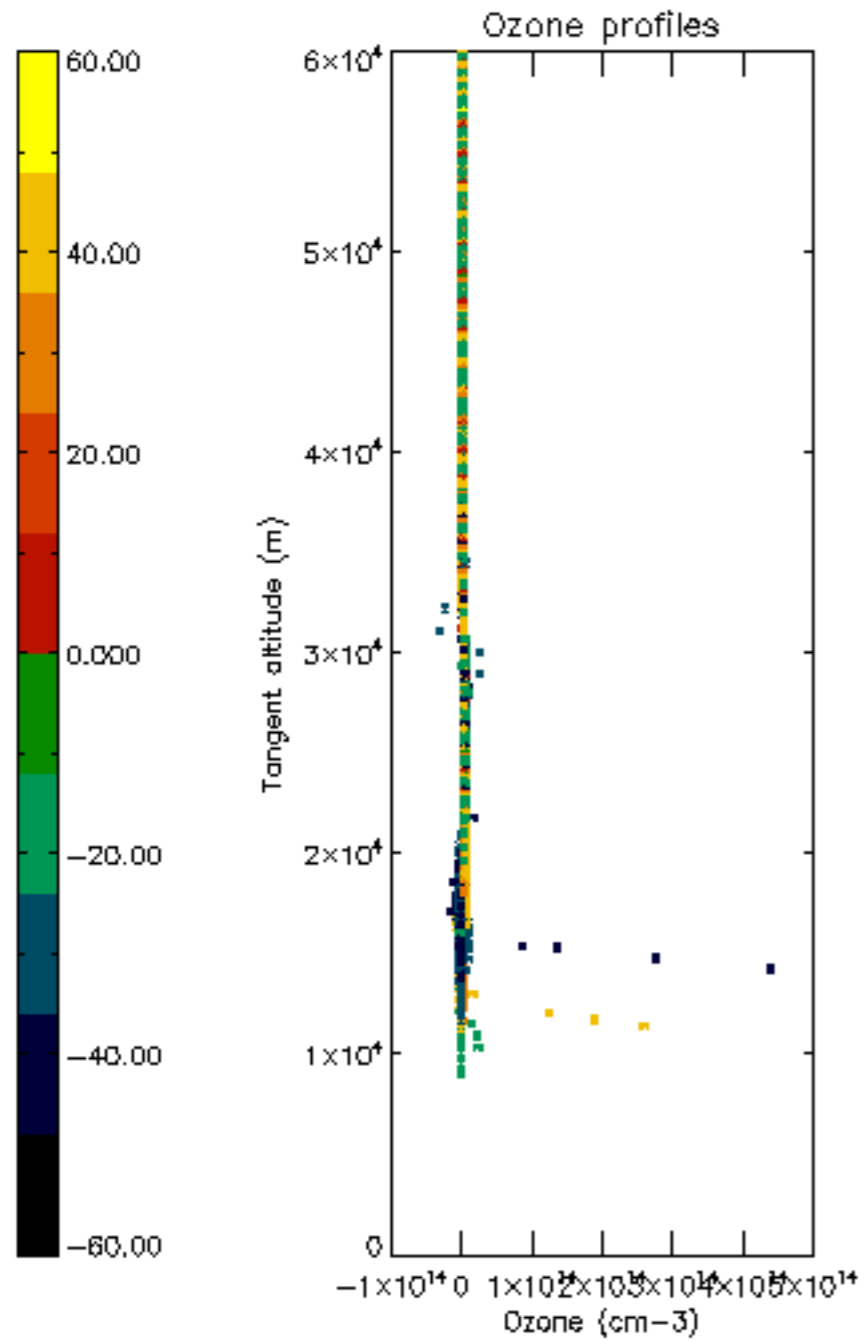
Percentage of star falling outside central band per profile



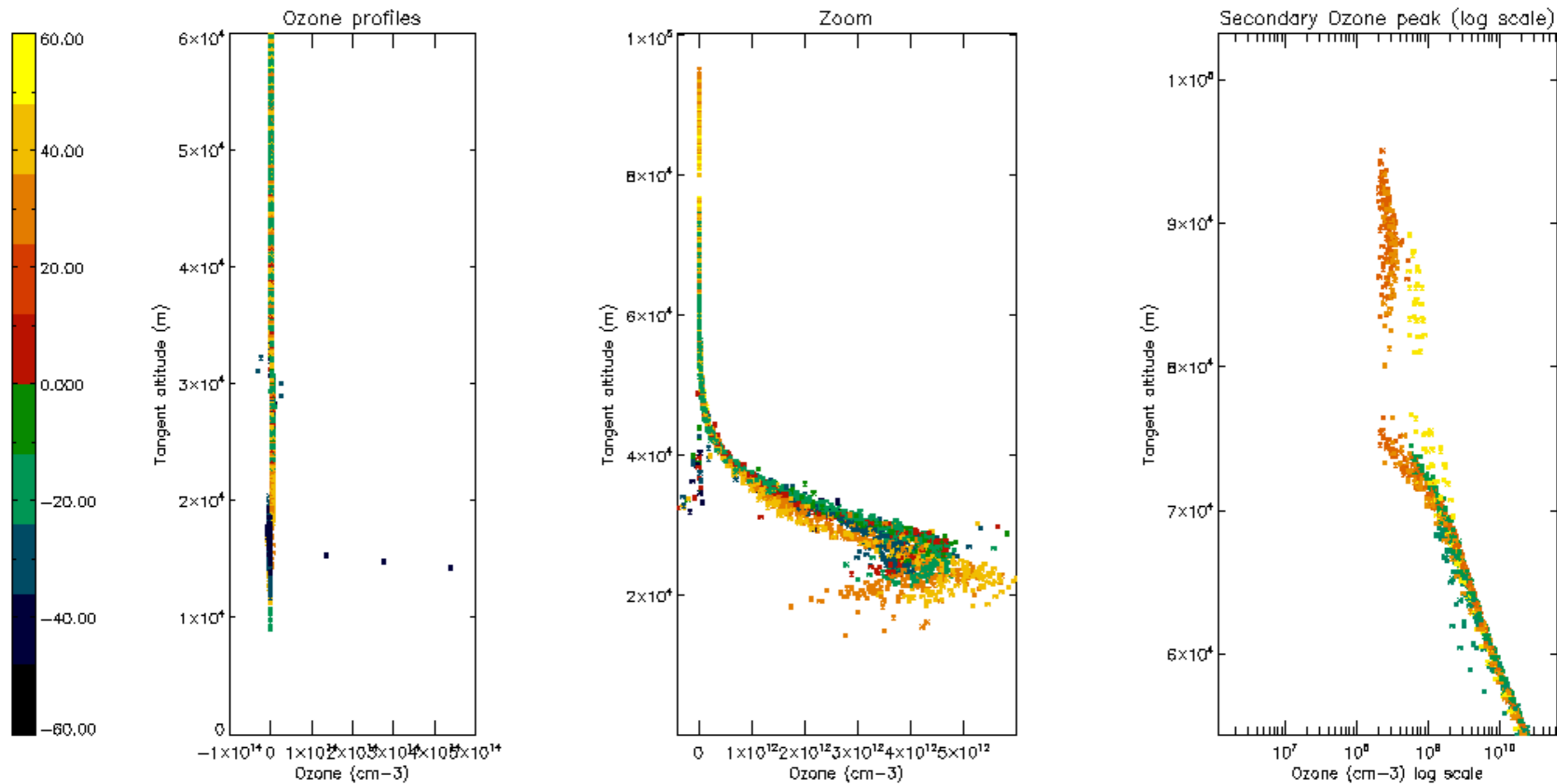
Percentage of saturation errors per profile

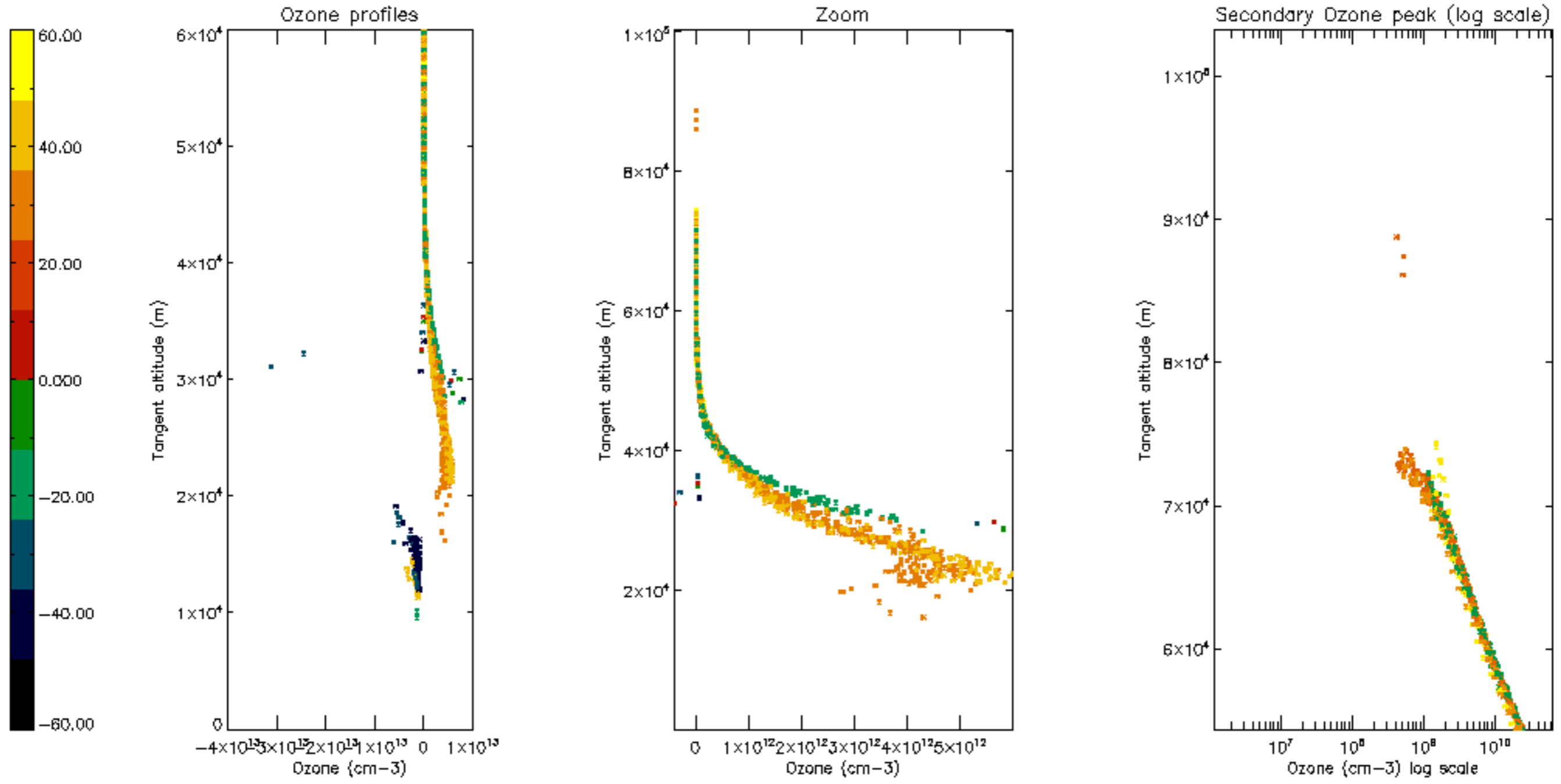


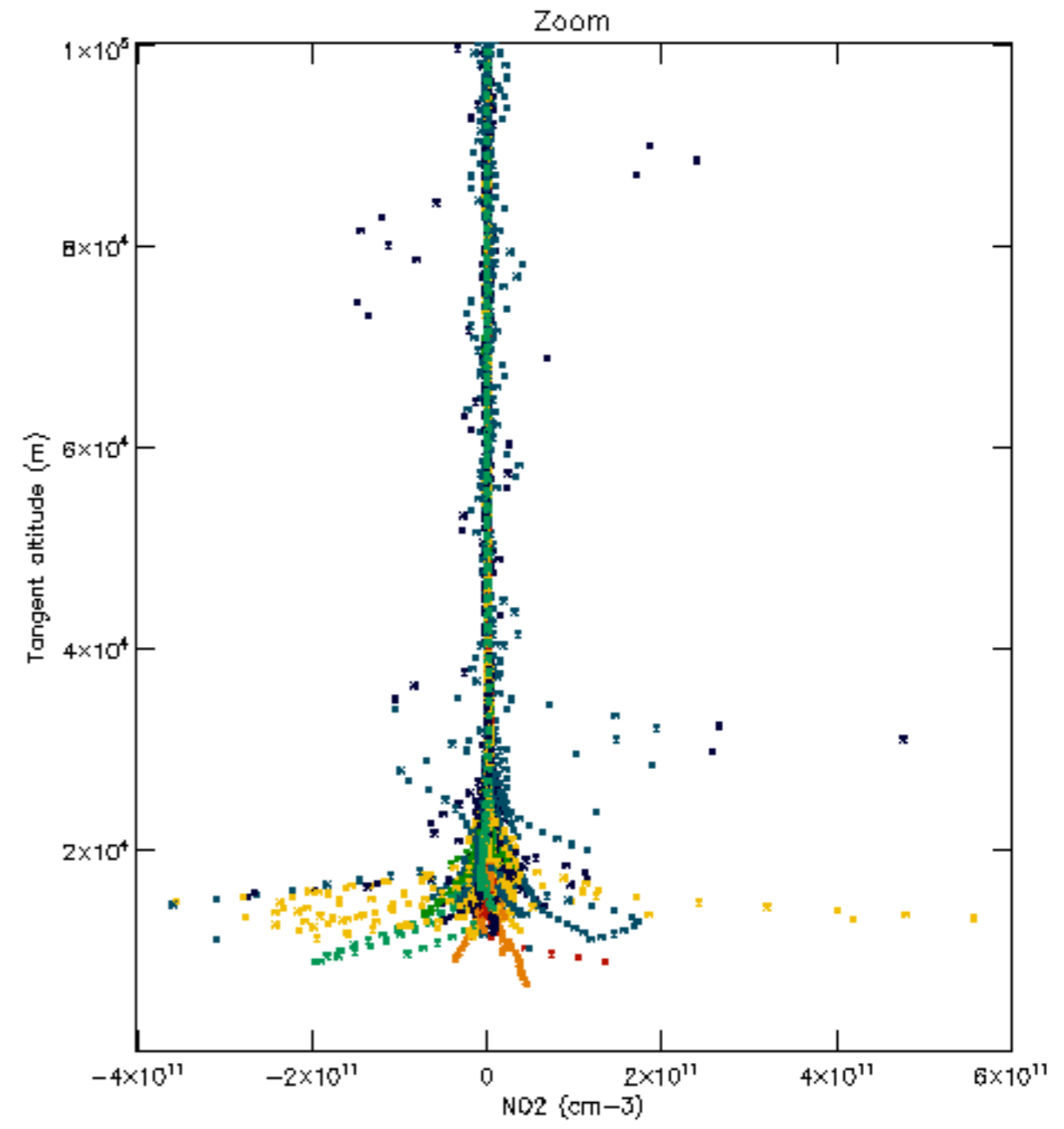
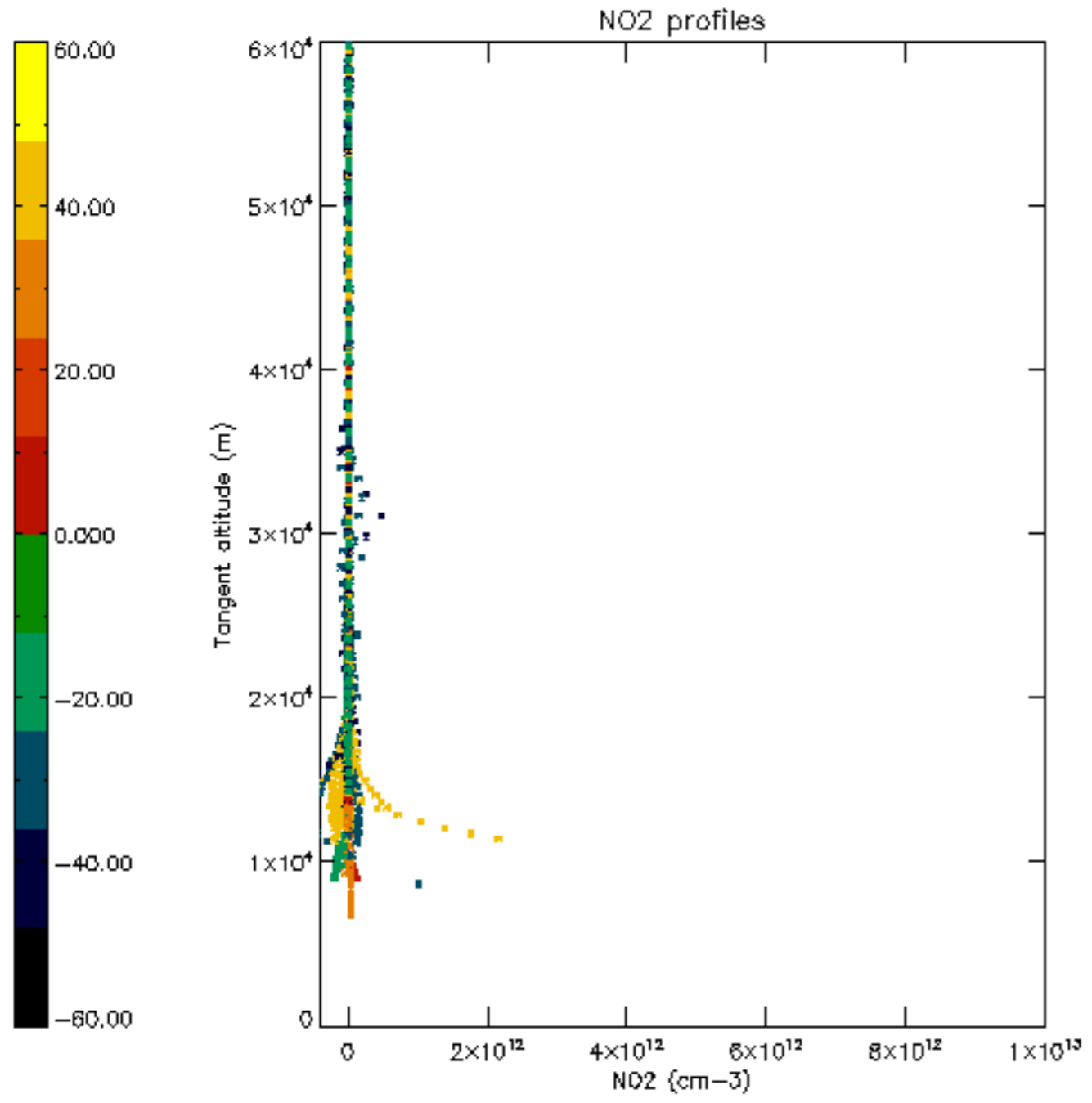


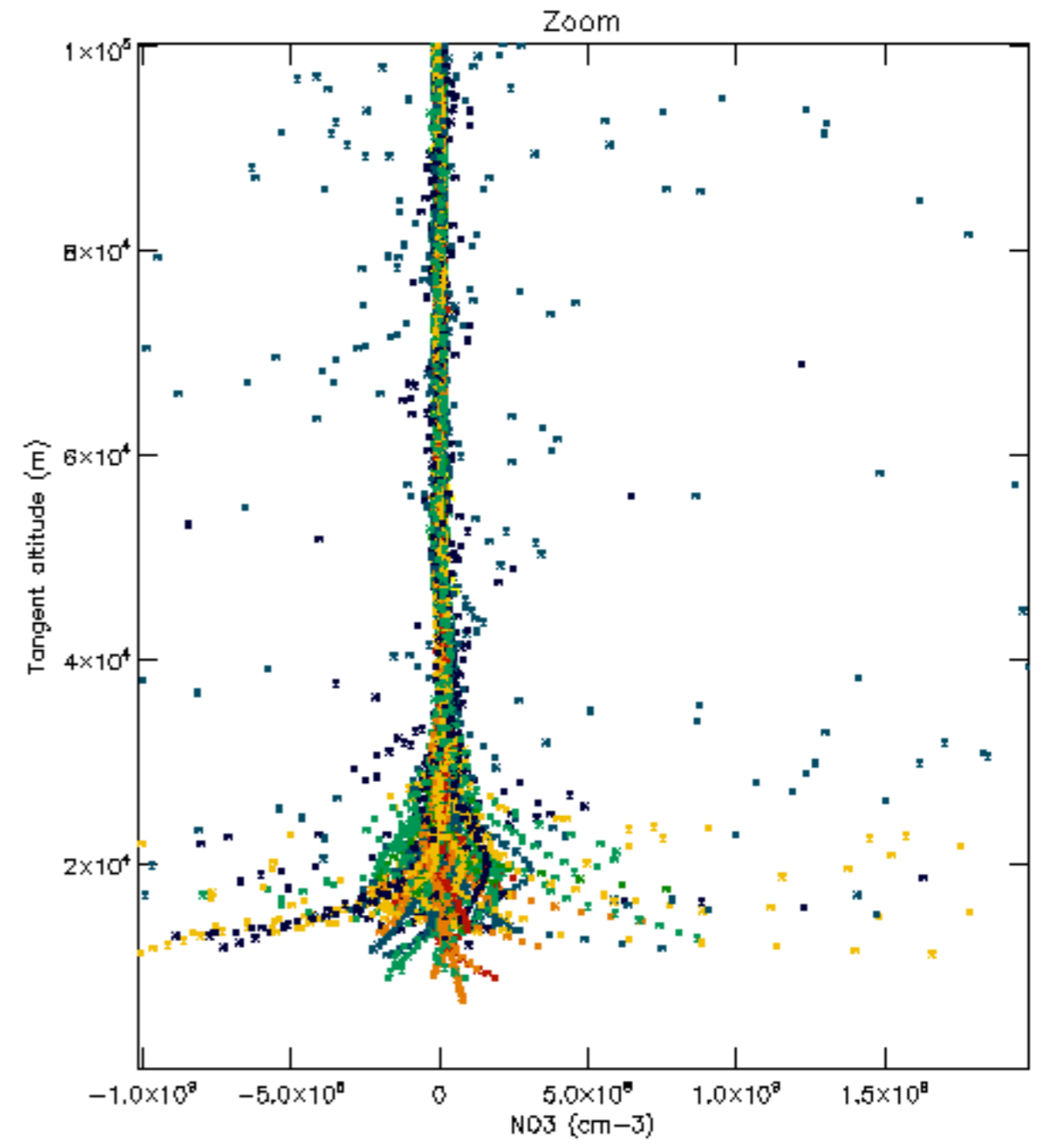
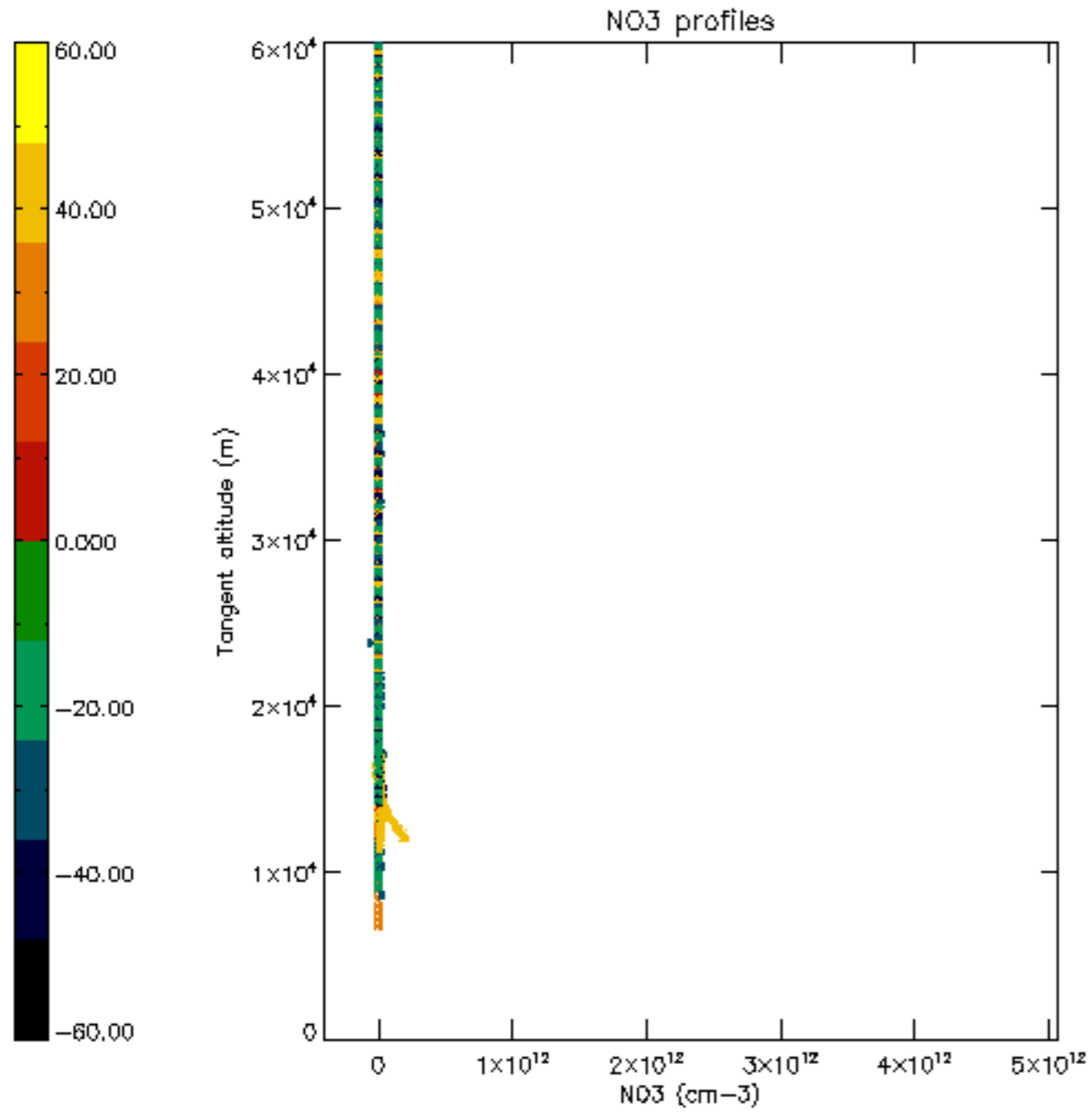


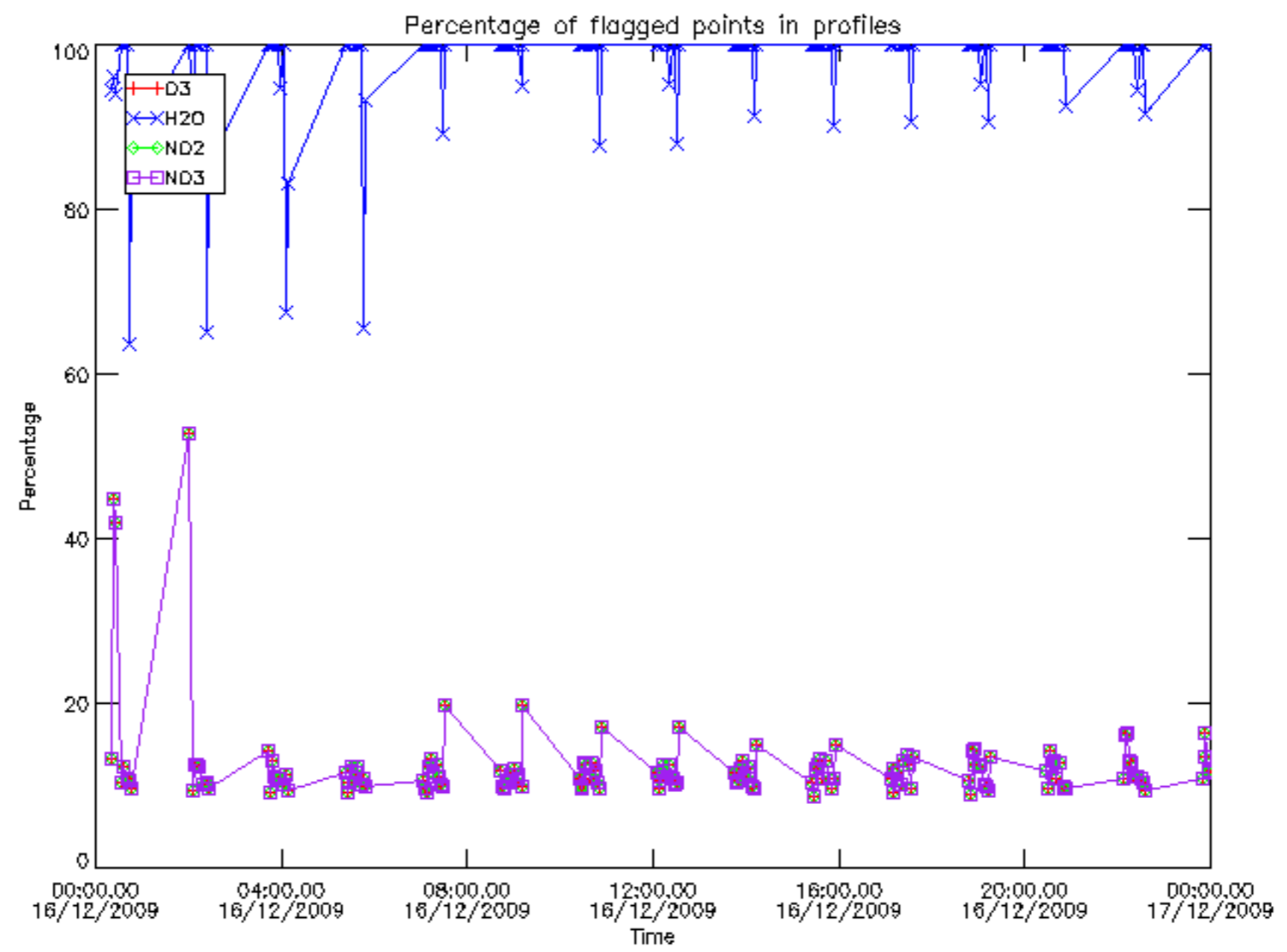




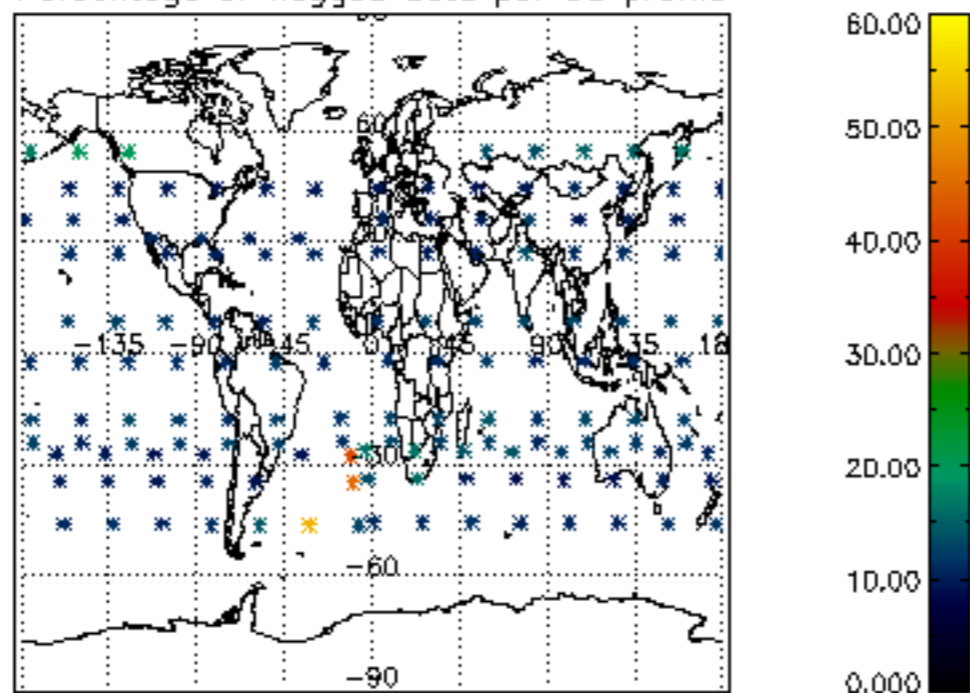




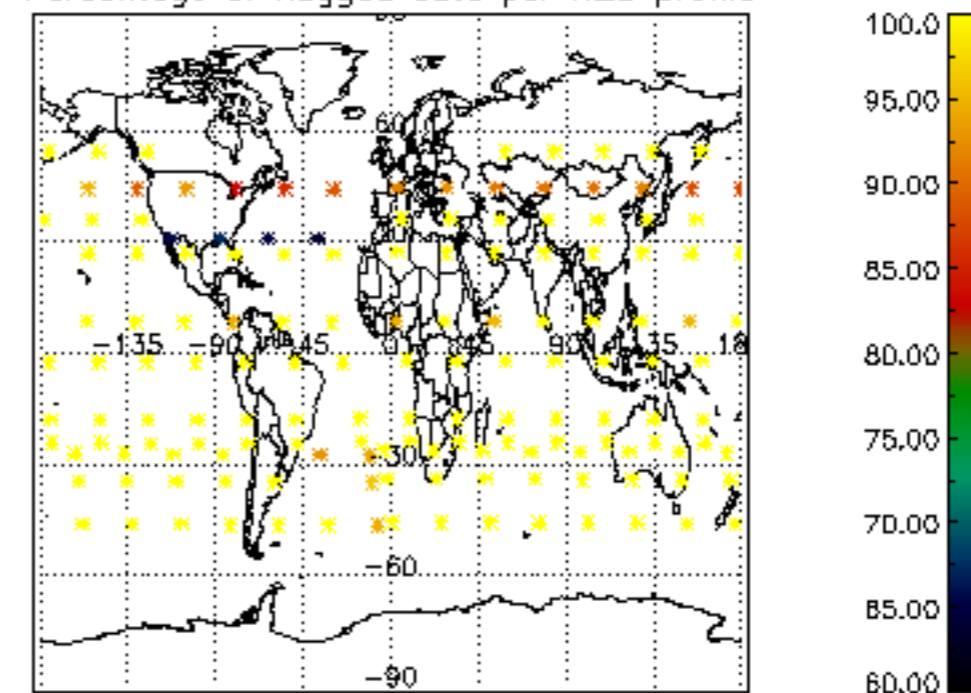




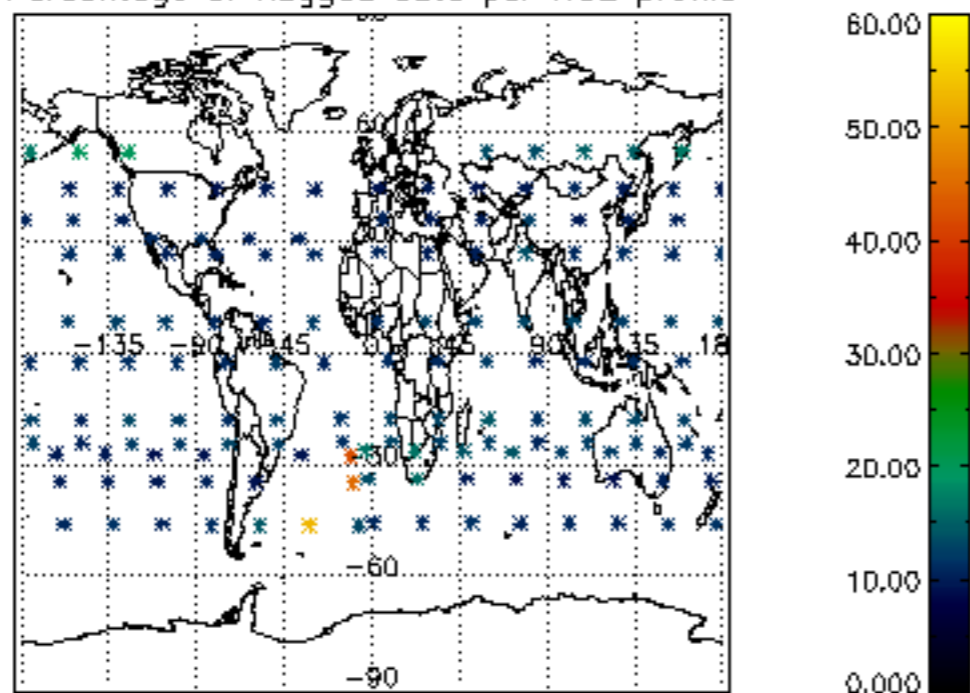
Percentage of flagged data per D3 profile



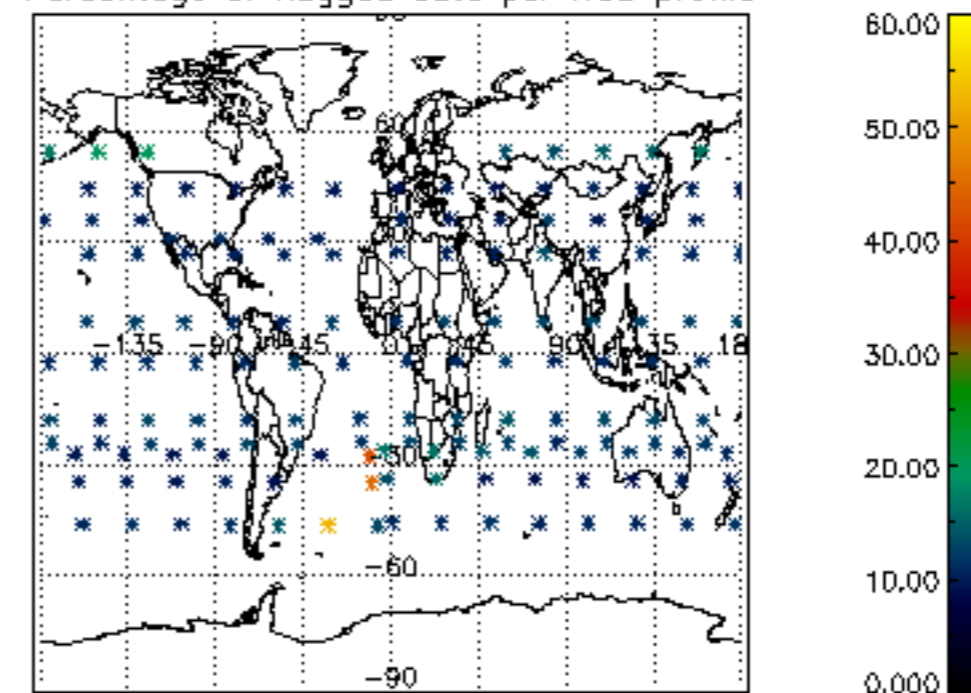
Percentage of flagged data per H2O profile

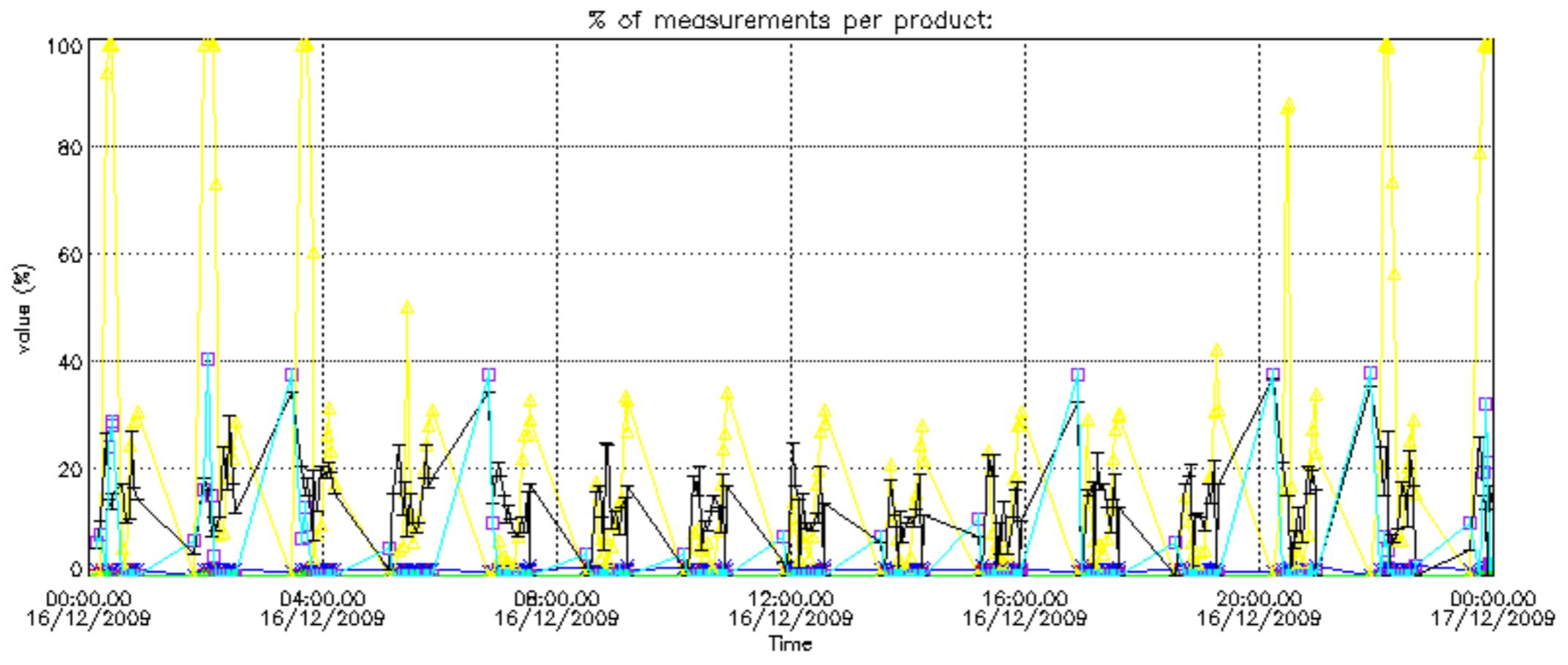


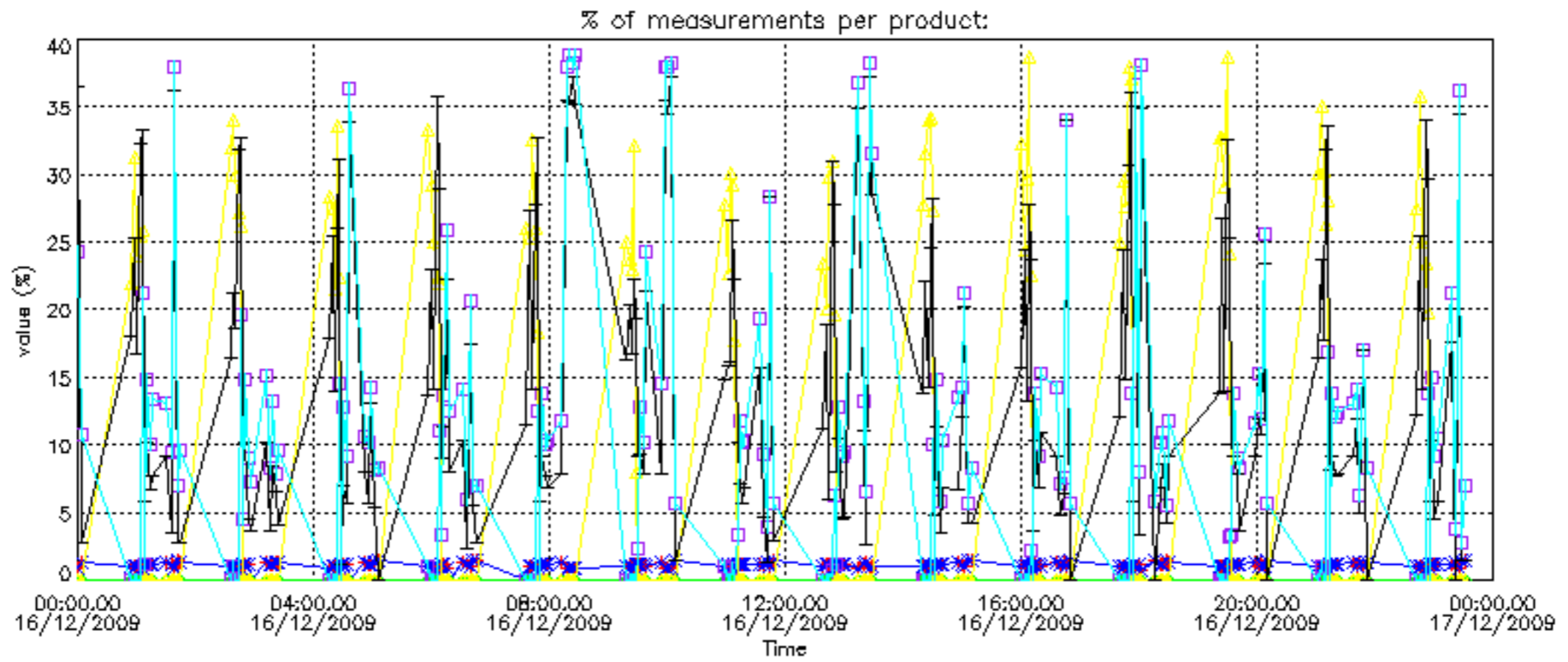
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

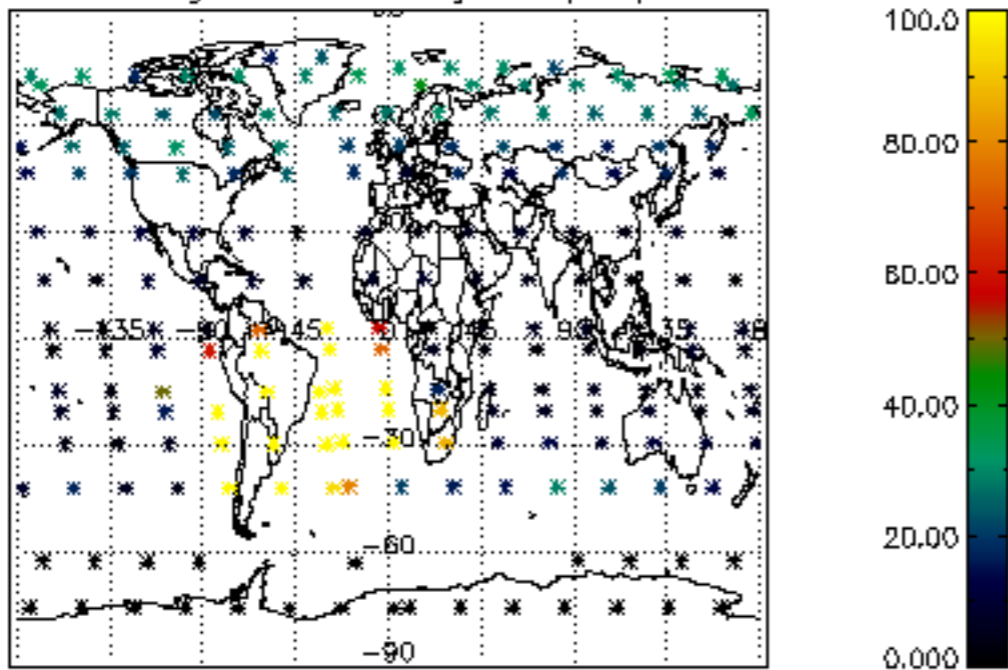




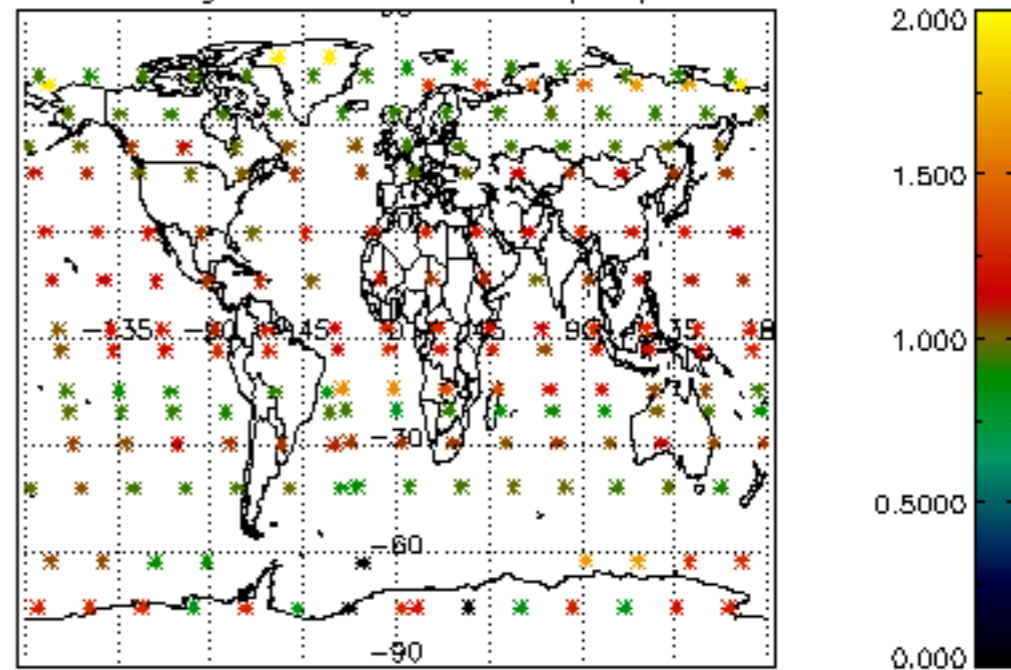




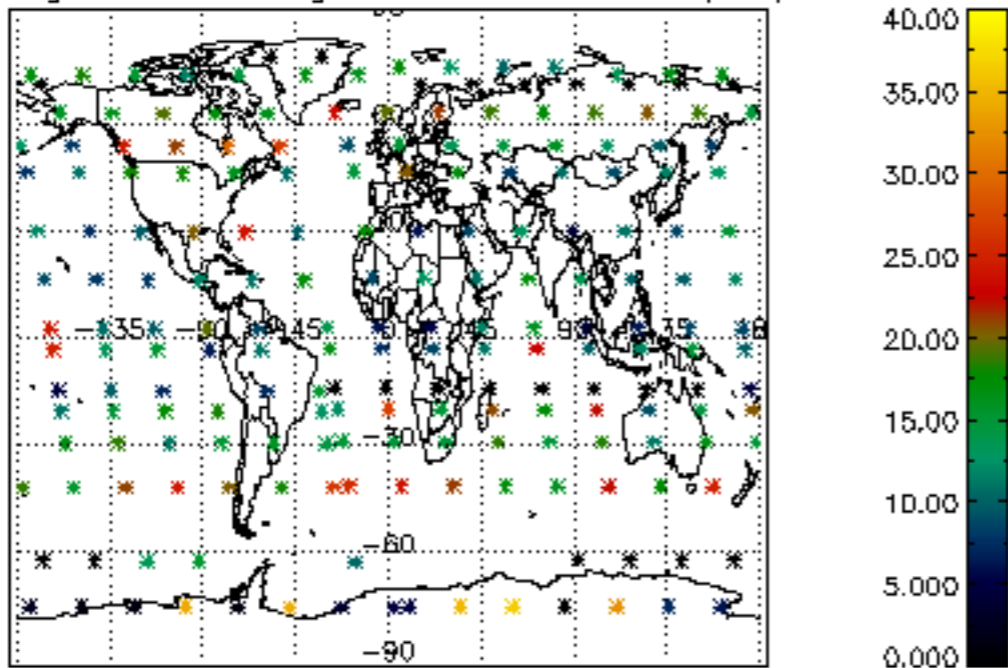
Percentage of cosmic ray hits per profile



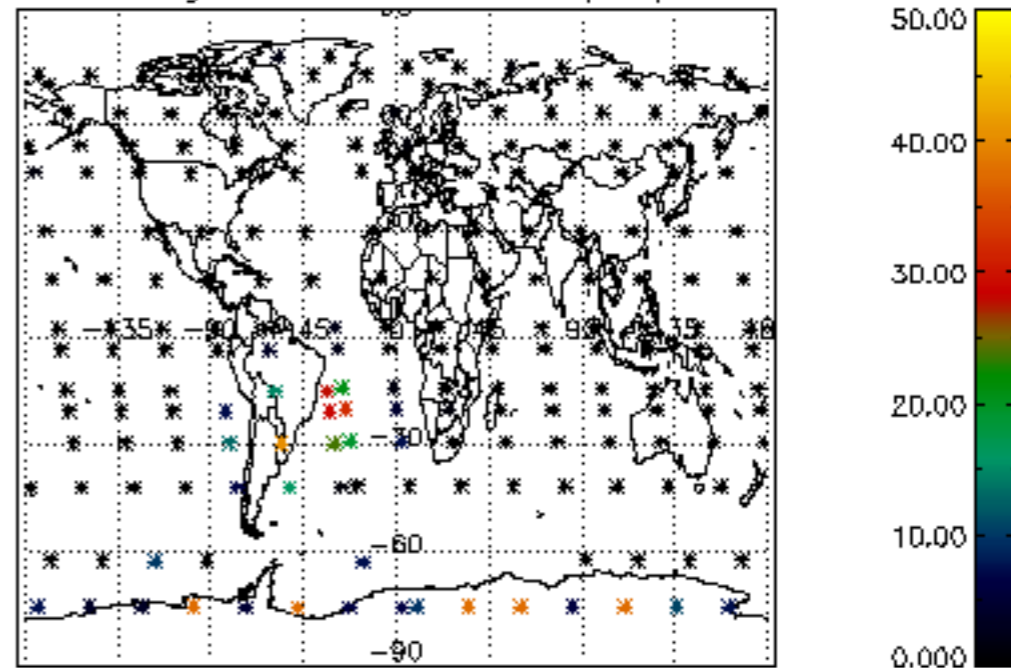
Percentage of datation errors per profile



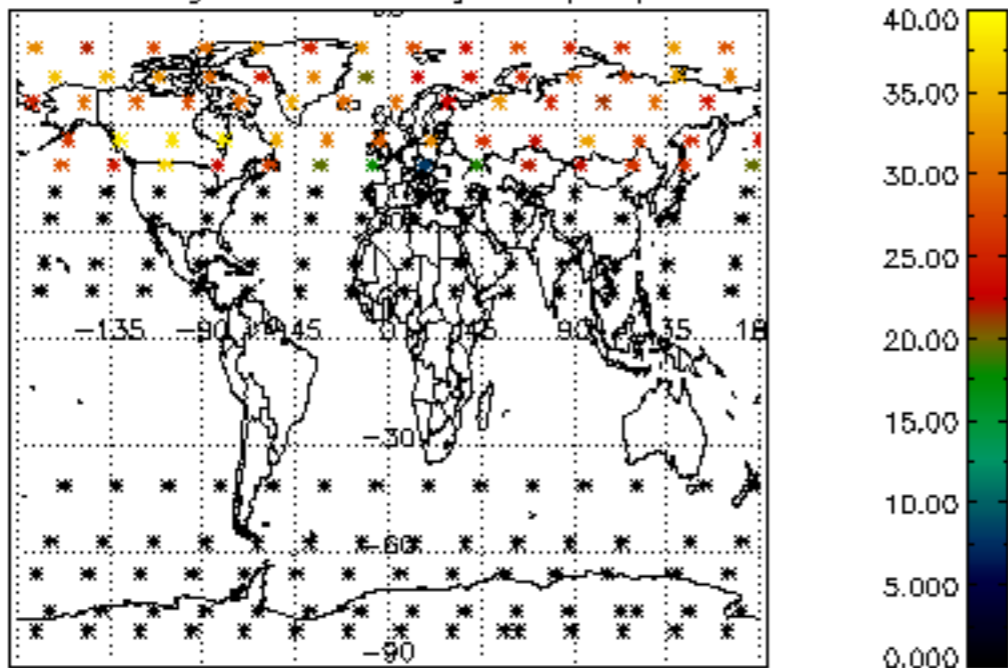
Percentage of star falling outside central band per profile



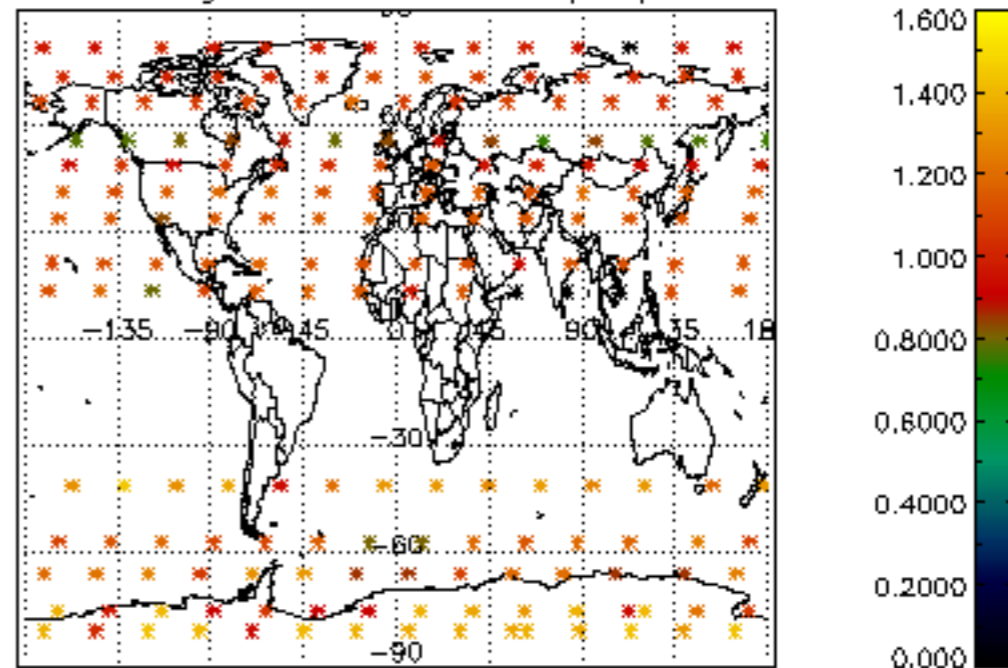
Percentage of saturation errors per profile



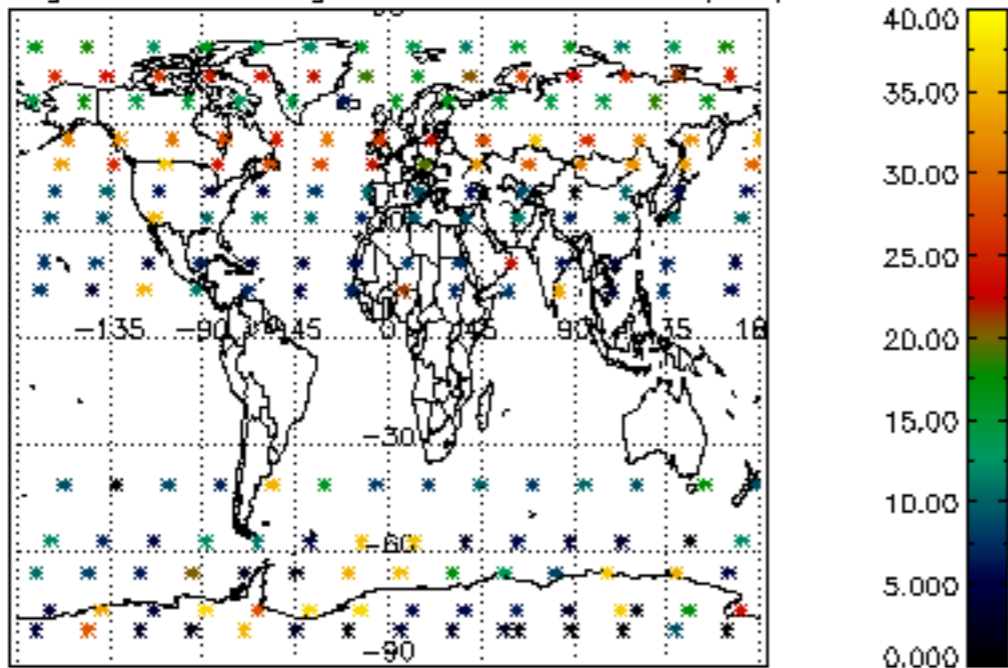
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

