

# GOMOS Level 2 Daily Report

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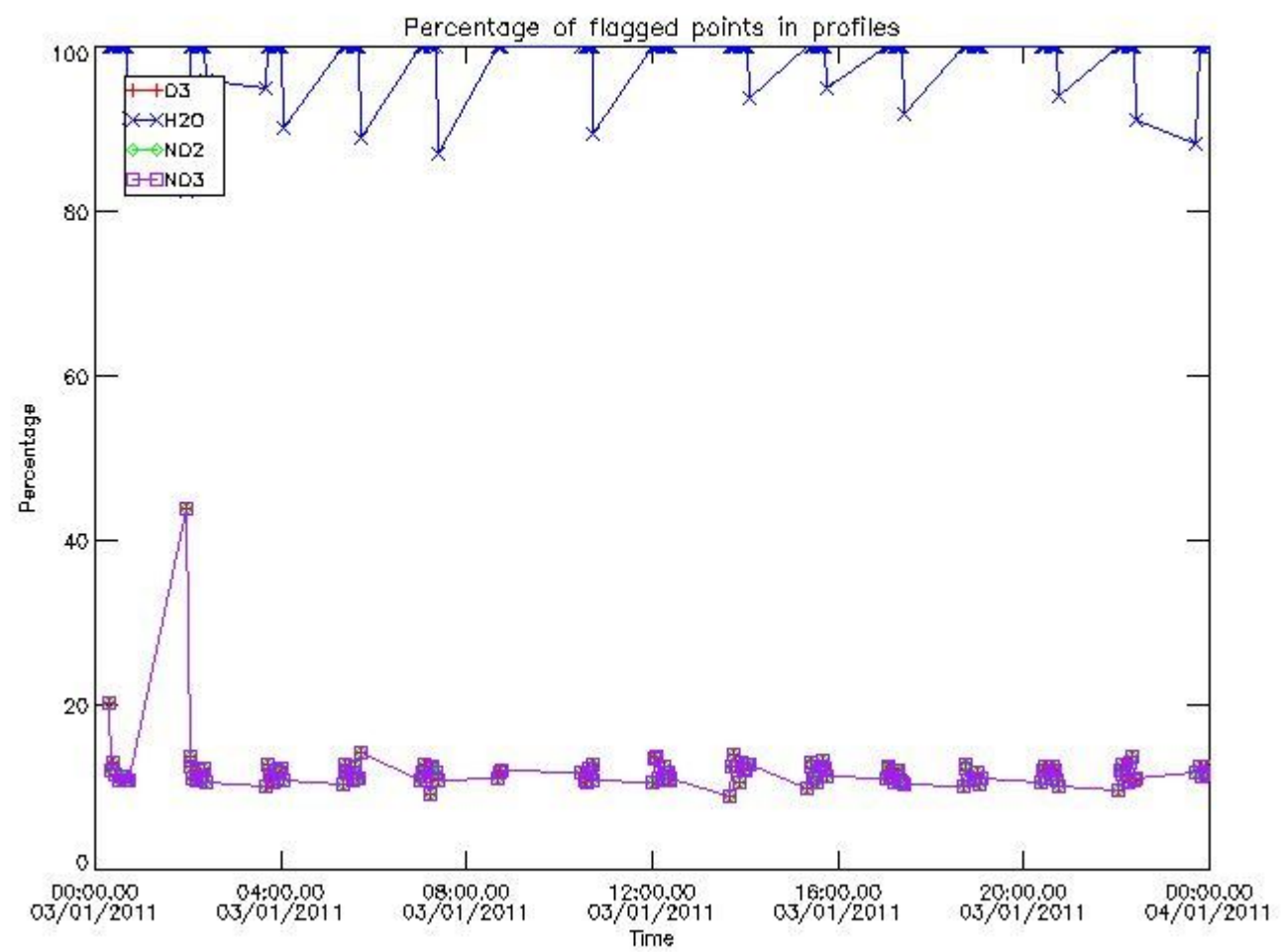
338	GOM_NL__2PRFIN20110103_221434_000000493098_00116_46251_3453.N1	03-JAN-2011 22:14:34	Dark	48.500	113	Mu Vel	2.6920	5000.0	97	46251	No
339	GOM_NL__2PRFIN20110103_221653_000000433098_00116_46251_3454.N1	03-JAN-2011 22:16:53	Dark	43.000	71	lot Car	2.2460	7700.0	86	46251	No
340	GOM_NL__2PRFIN20110103_221847_000000413098_00116_46251_3455.N1	03-JAN-2011 22:18:47	Dark	40.500	46	Del Vel	1.9540	10600.	81	46251	No
341	GOM_NL__2PRFIN20110103_222136_000000473098_00116_46251_3456.N1	03-JAN-2011 22:21:36	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	46251	No
342	GOM_NL__2PRFIN20110103_222347_000000483098_00116_46251_3457.N1	03-JAN-2011 22:23:47	Dark	47.500	70	Zet Pup	2.2460	39000.	95	46251	No
343	GOM_NL__2PRFIN20110103_222545_000000513098_00116_46251_3458.N1	03-JAN-2011 22:25:45	Dark	51.000	117	Pl Pup	2.7060	3800.0	102	46251	No
344	GOM_NL__2PRFIN20110103_222829_000000473098_00116_46251_3459.N1	03-JAN-2011 22:28:29	Straylight	46.500	23	21Eps CMa	1.5020	26000.	93	46251	No
345	GOM_NL__2PRFIN20110103_222959_000000443098_00116_46251_3460.N1	03-JAN-2011 22:29:59	Straylight	43.500	179	24Omi2CMa	3.0320	24000.	87	46251	No
346	GOM_NL__2PRFIN20110103_223223_000000463098_00116_46251_3461.N1	03-JAN-2011 22:32:23	Straylight	46.000	1	9Alp CMa	-1.4400	11000.	92	46251	No
347	GOM_NL__2PRFIN20110103_223946_000000493098_00116_46251_3462.N1	03-JAN-2011 22:39:46	Twl_and_stray	49.000	14	58Alp Ori	0.87000	3000.0	98	46251	No
348	GOM_NL__2PRFIN20110103_224249_000000493098_00116_46251_3463.N1	03-JAN-2011 22:42:49	Twl_and_stray	48.500	44	24Gam Gem	1.9280	11000.	97	46251	No
349	GOM_NL__2PRFIN20110103_224428_000000483098_00116_46251_3464.N1	03-JAN-2011 22:44:28	Bright	48.000	151	13Mu Gem	2.8900	3000.0	96	46251	No
350	GOM_NL__2PRFIN20110103_224830_000000393098_00116_46251_3465.N1	03-JAN-2011 22:48:30	Bright	38.500	107	37The Aur	2.6490	11000.	77	46251	No
351	GOM_NL__2PRFIN20110103_225043_000000403098_00116_46251_3466.N1	03-JAN-2011 22:50:43	Bright	39.500	42	34Bet Aur	1.9000	10200.	79	46251	No
352	GOM_NL__2PRFIN20110103_230715_000000363098_00116_46251_3467.N1	03-JAN-2011 23:07:15	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	46251	No
353	GOM_NL__2PRFIN20110103_231039_000000373098_00116_46251_3468.N1	03-JAN-2011 23:10:39	Bright	37.000	32	77Eps UMa	1.7630	11000.	74	46251	No
354	GOM_NL__2PRFIN20110103_231143_000000443098_00116_46251_3469.N1	03-JAN-2011 23:11:43	Bright	44.000	55	79Zet UMa	2.0600	10200.	88	46251	No
355	GOM_NL__2PRFIN20110103_231405_000000573098_00116_46251_3470.N1	03-JAN-2011 23:14:05	Bright	57.000	39	85Eta UMa	1.8540	24000.	114	46251	No
356	GOM_NL__2PRFIN20110103_231819_000000653098_00116_46251_3471.N1	03-JAN-2011 23:18:19	Bright	65.000	180	27Gam Boo	3.0400	8000.0	130	46251	No
357	GOM_NL__2PRFIN20110103_232208_000000653098_00116_46251_3472.N1	03-JAN-2011 23:22:08	Bright	65.000	83		2.3780	11000.	130	46251	No
358	GOM_NL__2PRFIN20110103_232533_000000263098_00116_46251_3473.N1	03-JAN-2011 23:25:33	Twl_and_stray	26.000	3	16Alp Boo	-0.050000	4250.0	52	46251	No
359	GOM_NL__2PRFIN20110103_232728_000000373098_00116_46251_3474.N1	03-JAN-2011 23:27:28	Bright	37.000	102	24Alp Ser	2.6000	4250.0	74	46251	No
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362	GOM_NL__2PRFIN20110103_234220_000000473098_00116_46251_3477.N1	03-JAN-2011 23:42:20	Dark	47.000	54	5The Cen	2.0550	4500.0	94	46251	No
363	GOM_NL__2PRFIN20110103_234643_000000413098_00117_46252_3467.N1	03-JAN-2011 23:46:43	Dark	41.000	77	Eps Cen	2.3030	28000.	82	46252	No
364	GOM_NL__2PRFIN20110103_234838_000000453098_00117_46252_3468.N1	03-JAN-2011 23:48:38	Dark	45.000	64	Gam Cen	2.2000	10600.	90	46252	No
365	GOM_NL__2PRFIN20110103_235449_000000473098_00117_46252_3469.N1	03-JAN-2011 23:54:49	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	46252	No
366	GOM_NL__2PRFIN20110103_235707_000000413098_00117_46252_3470.N1	03-JAN-2011 23:57:07	Dark	41.000	71	lot Car	2.2460	7700.0	82	46252	No
367	GOM_NL__2PRFIN20110103_235901_000000443098_00117_46252_3471.N1	03-JAN-2011 23:59:01	Dark	44.000	46	Del Vel	1.9540	10600.	88	46252	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.

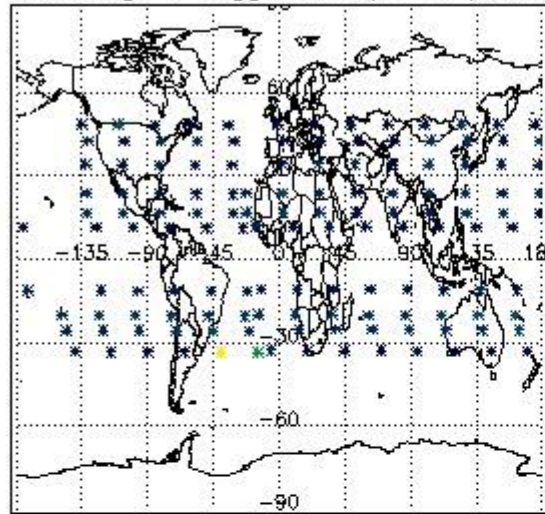
#### 3.1 Plot quality information per product (time dependant)



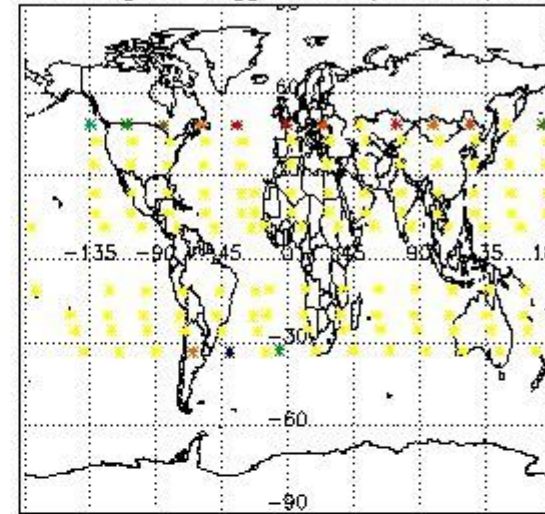


3.2 Plot quality information per product (world map)

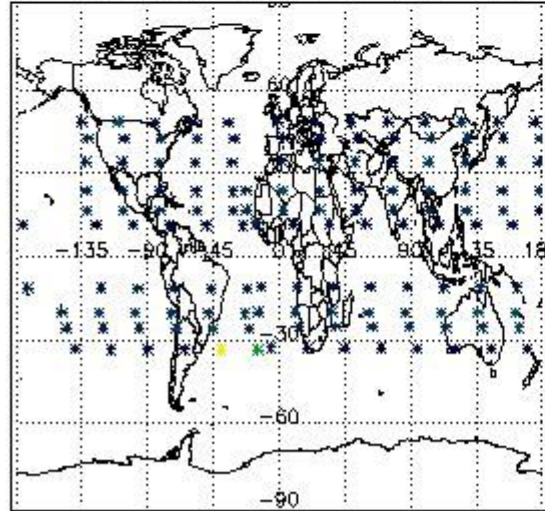
Percentage of flagged data per O3 profile



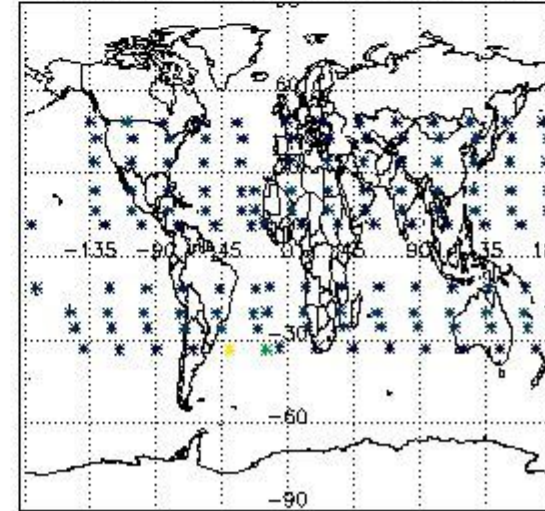
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

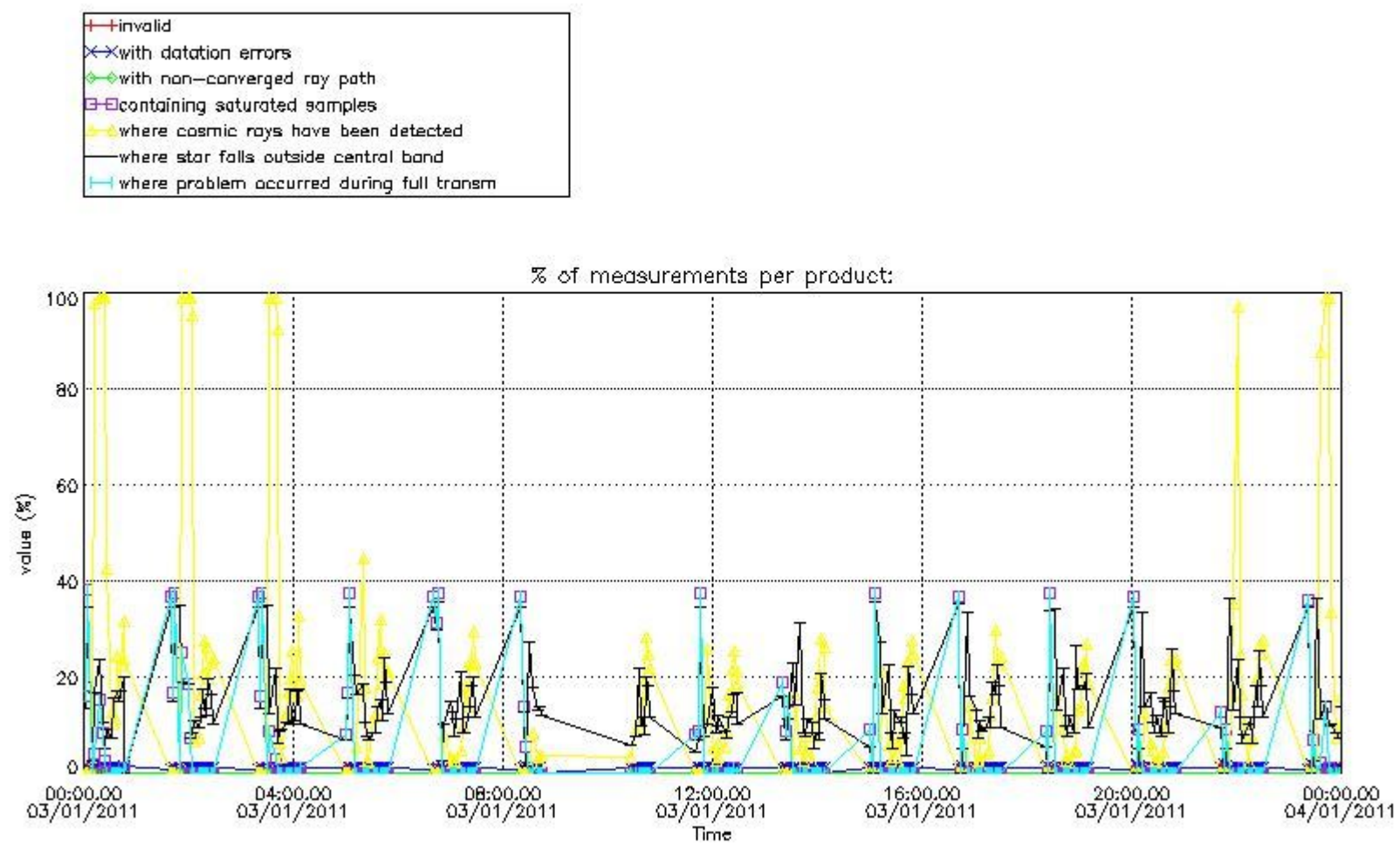


#### 4. Level 1 quality information per product

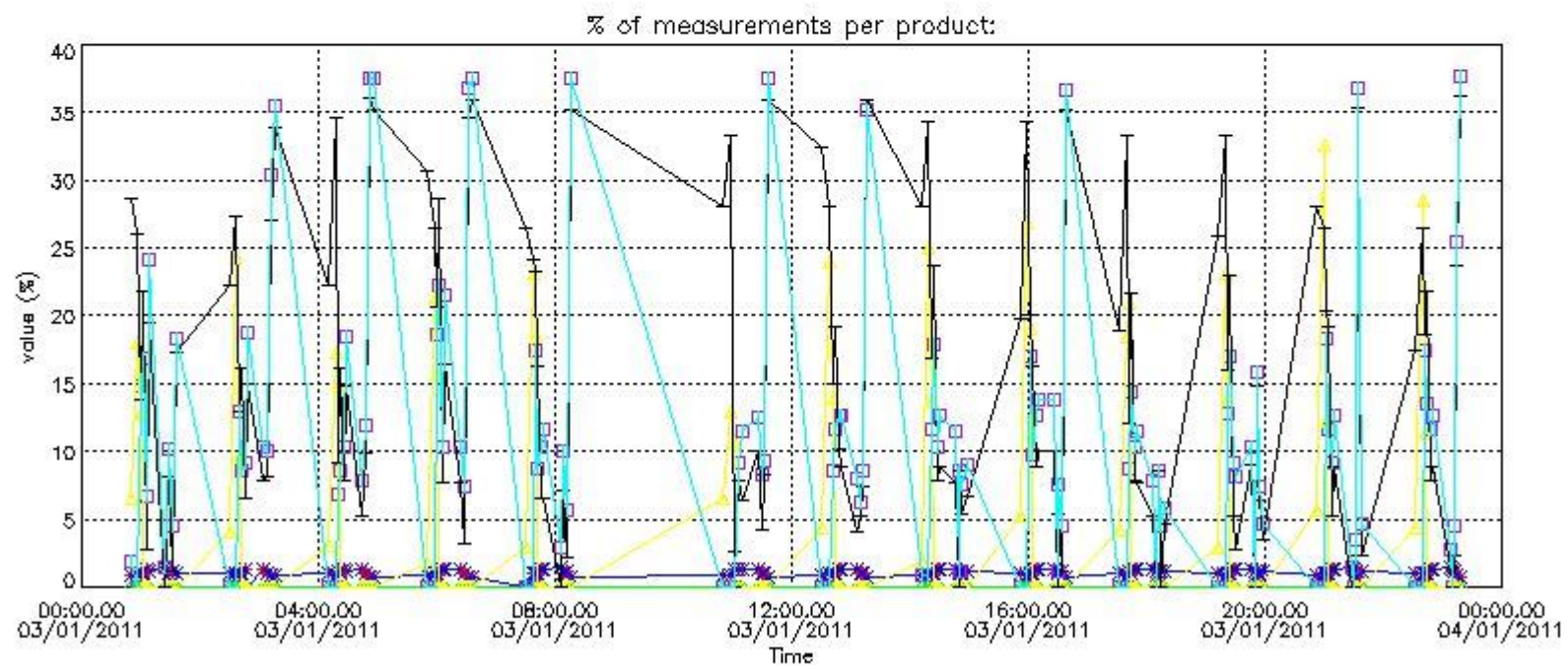
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

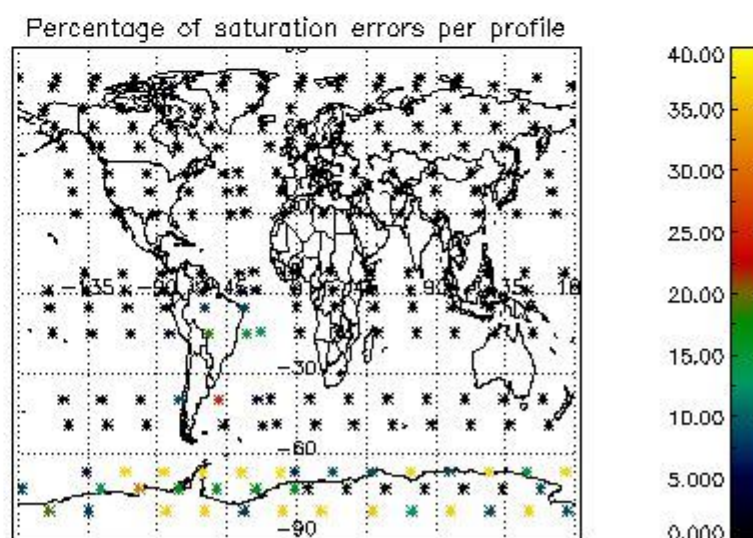
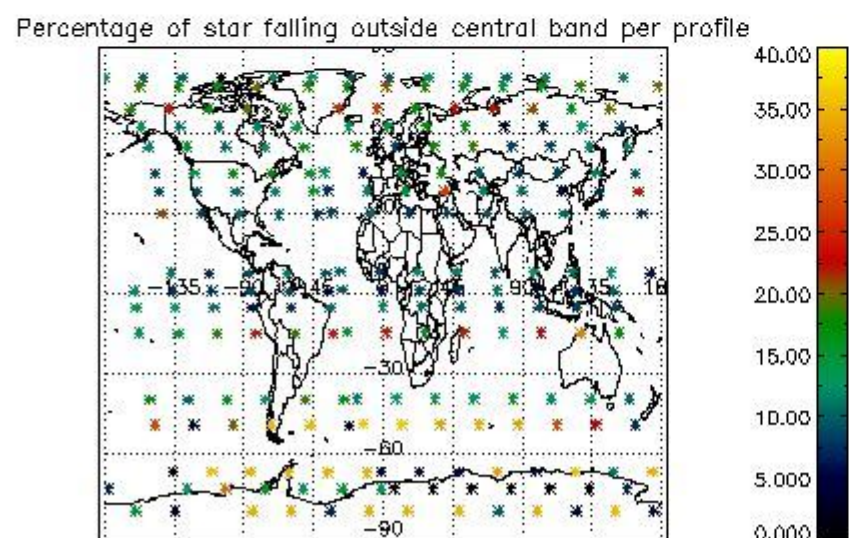
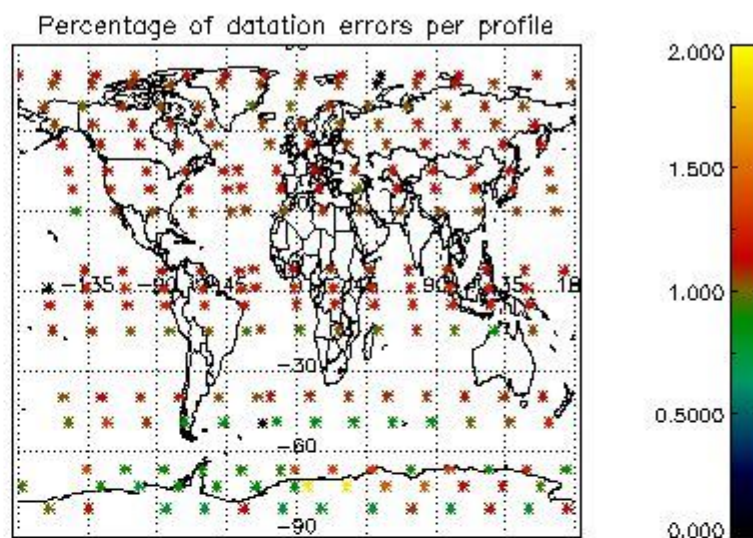
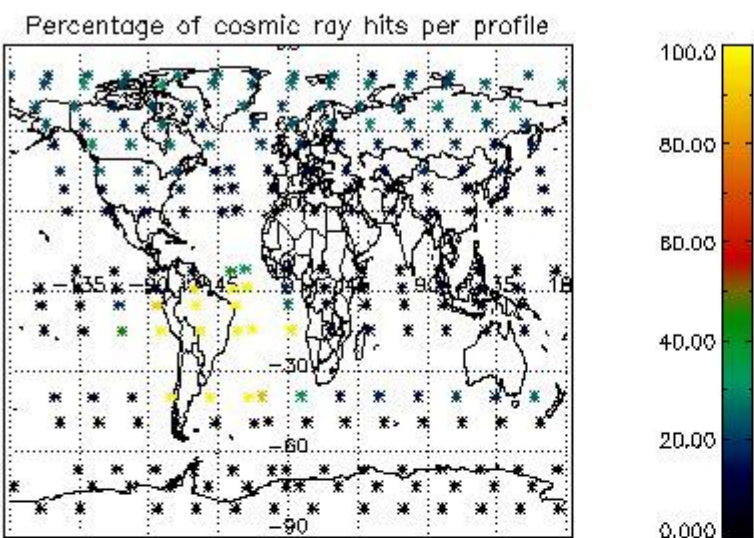


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

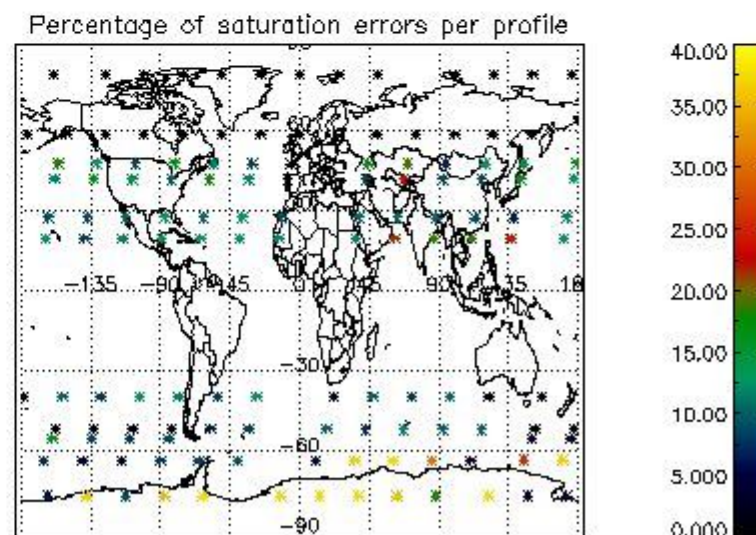
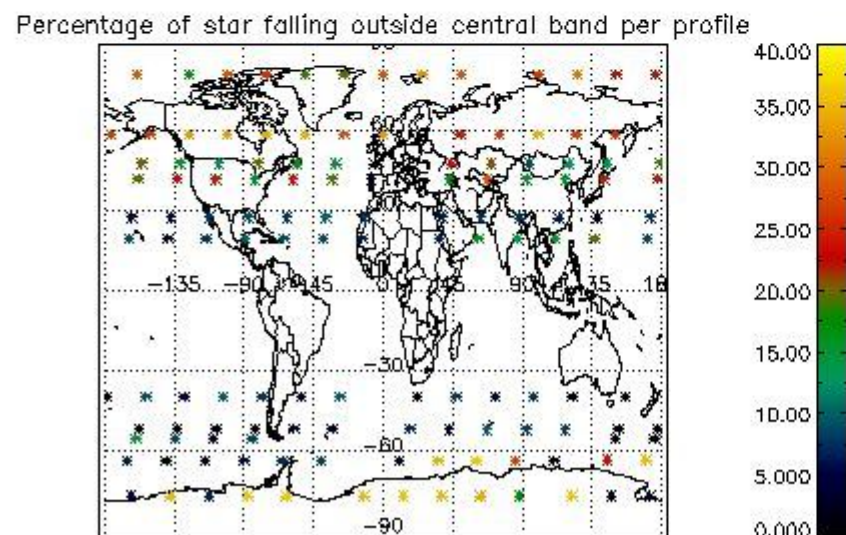
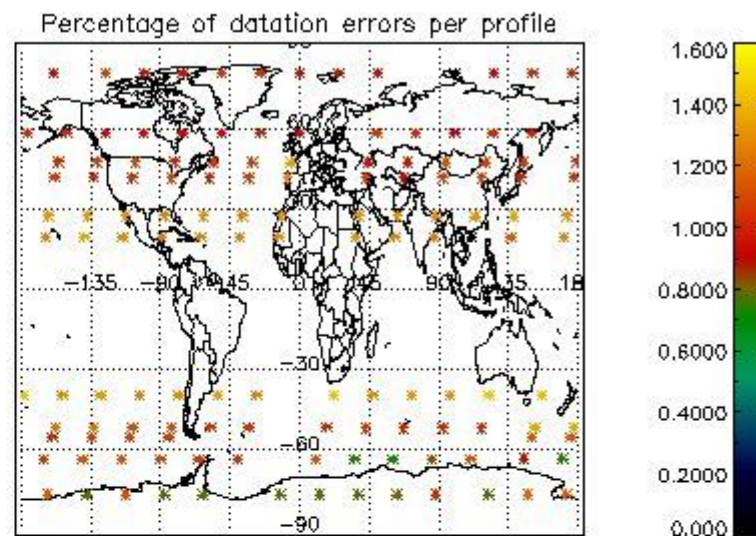
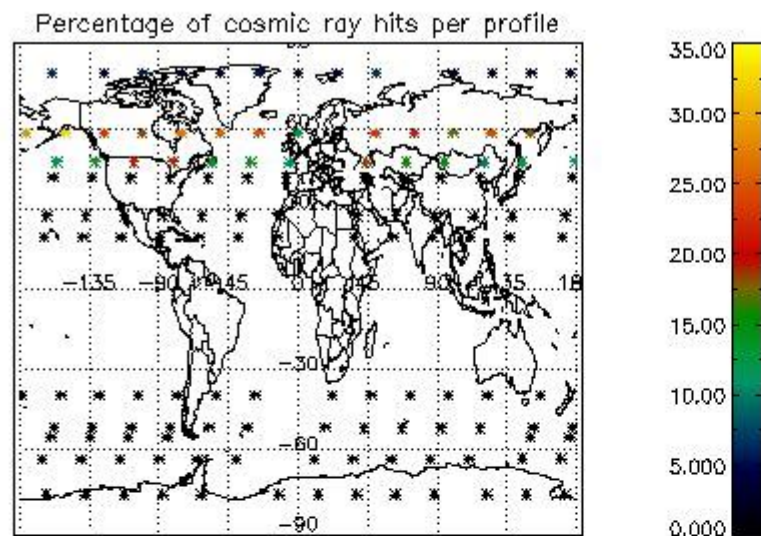


*4.2 Plot quality information per product coming from level 1b processing (world map)*

*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

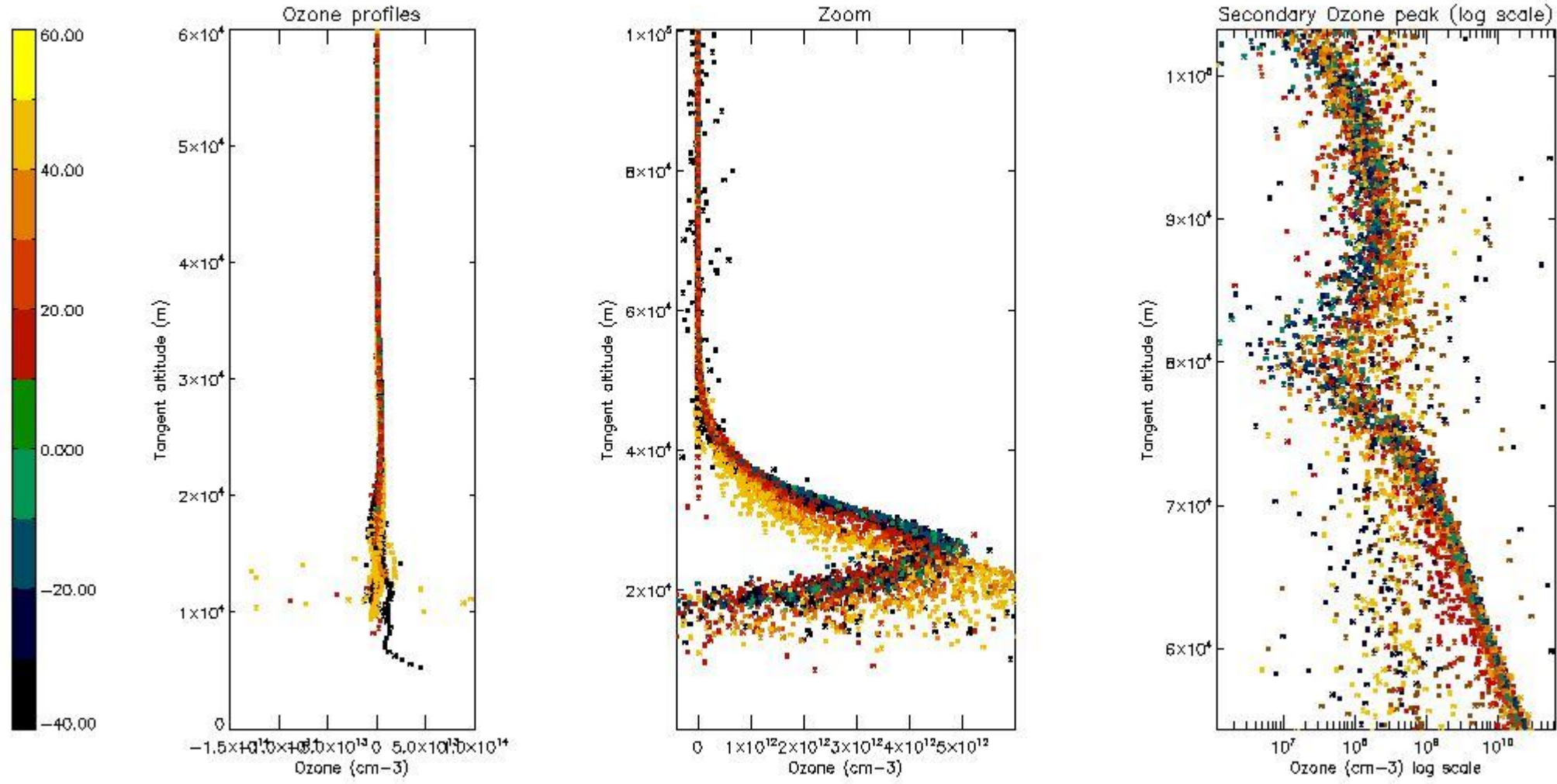
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	16

STD < 10	13
STD < 5	7

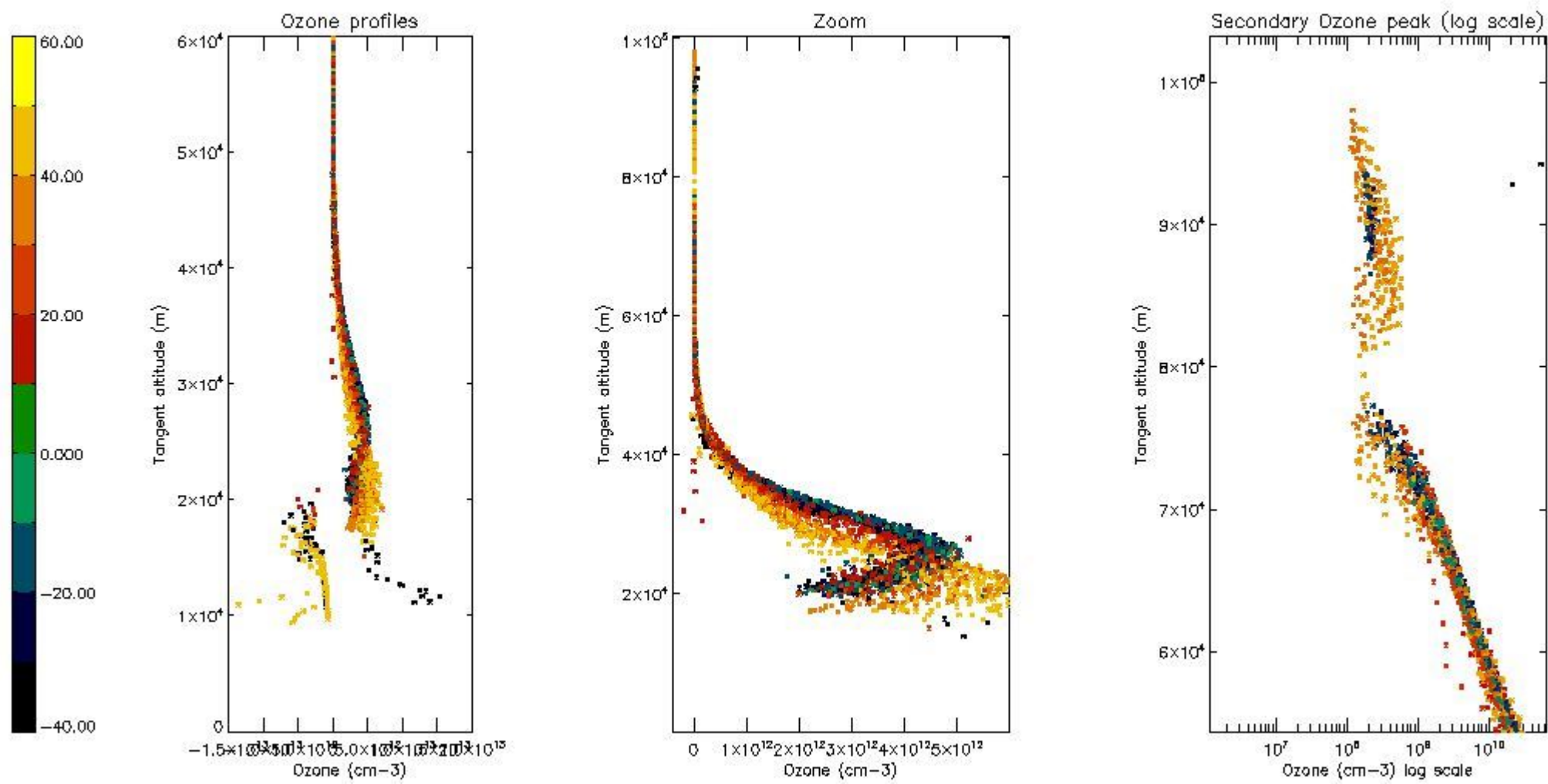
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

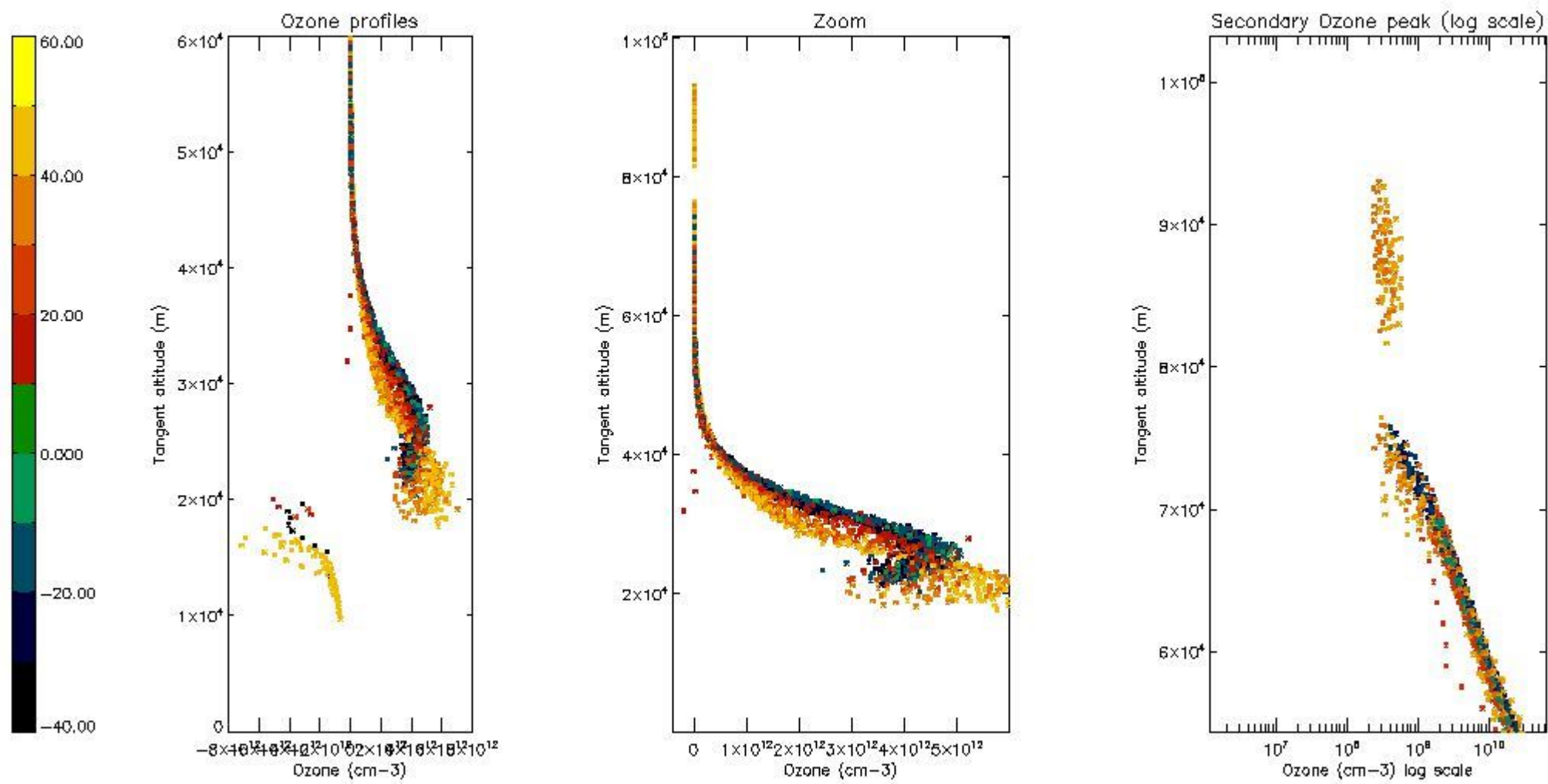
The colorbar represents the latitude.



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

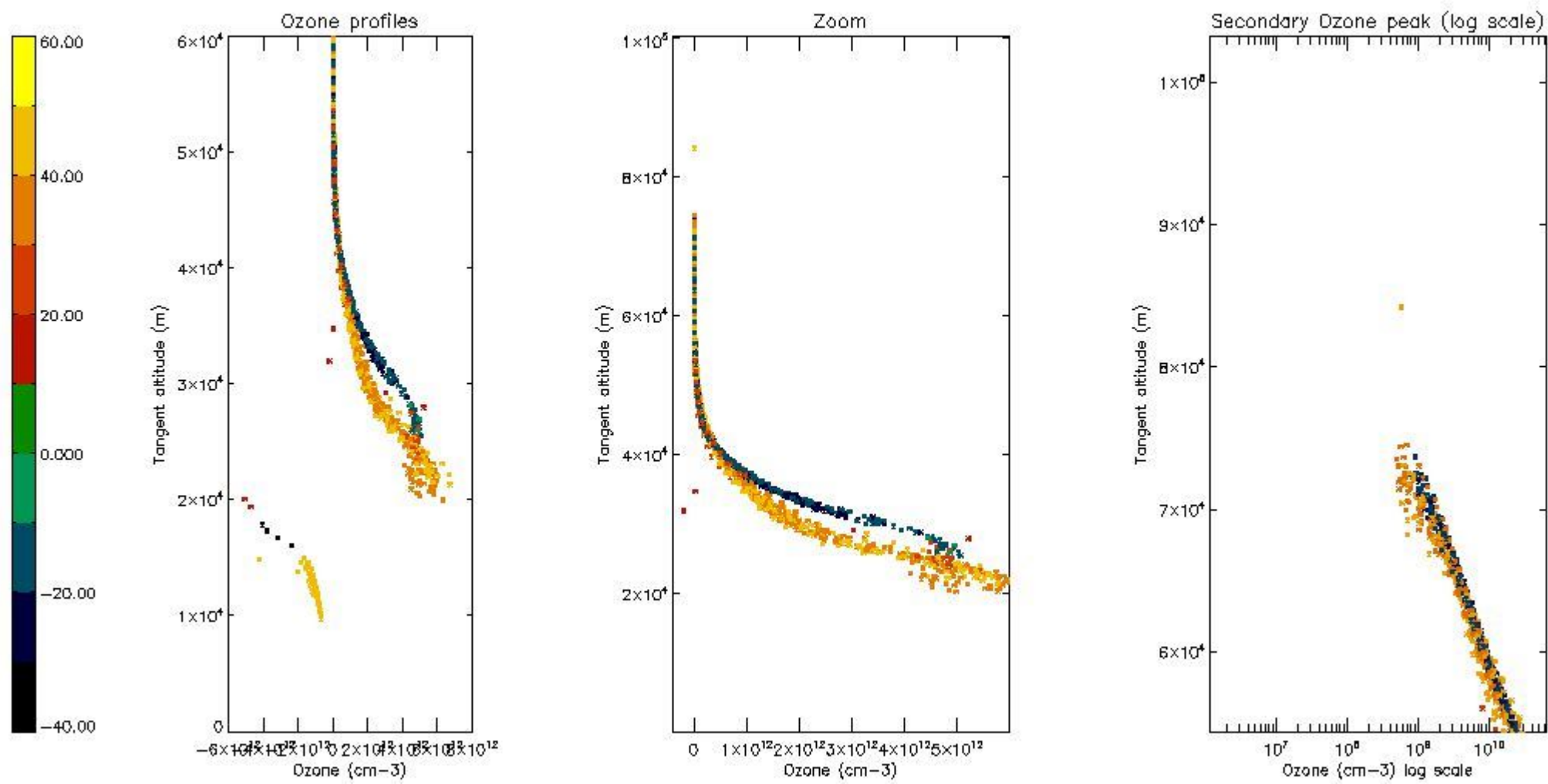
The colorbar represents the latitude.





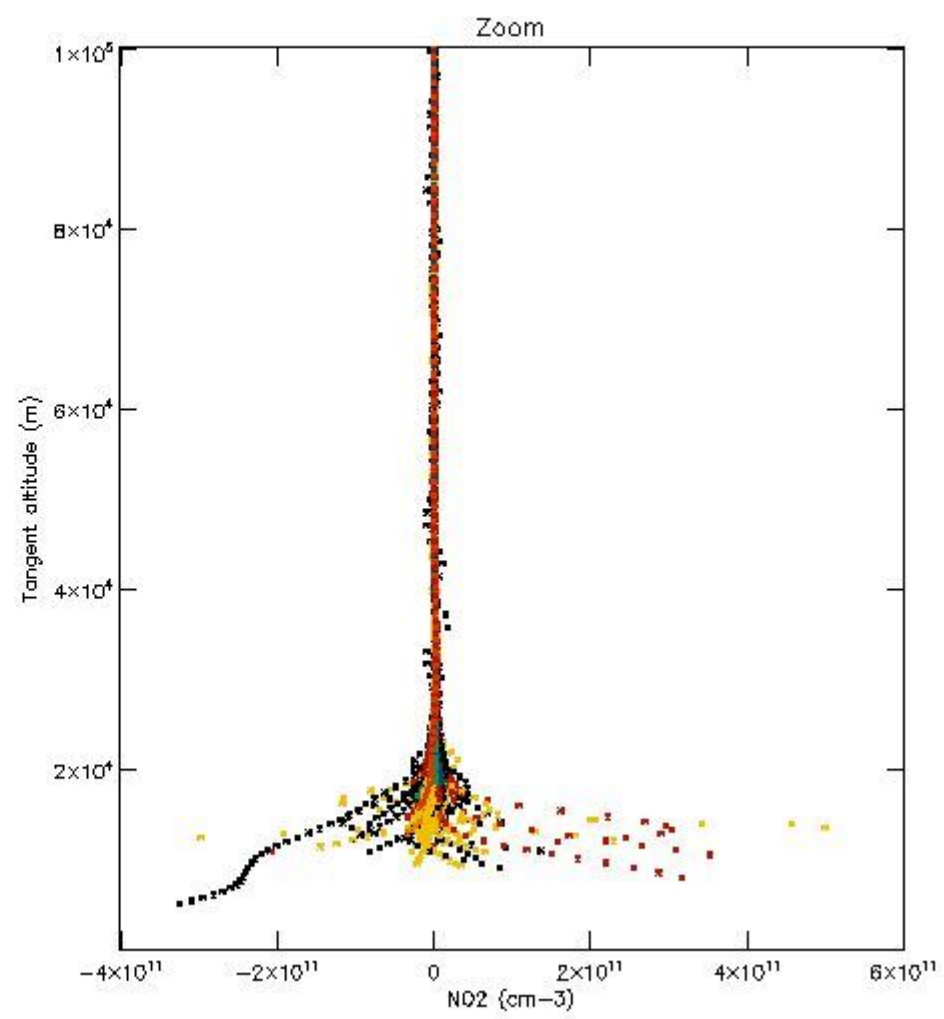
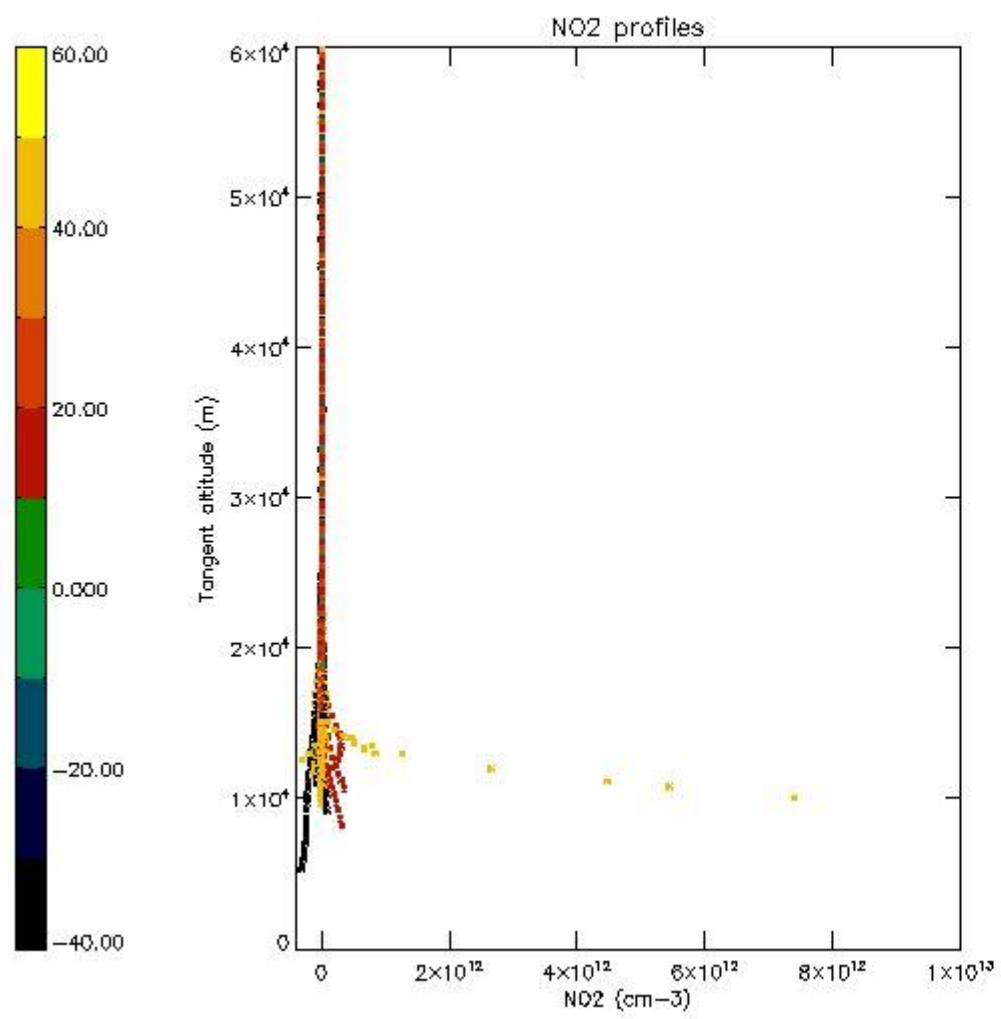
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



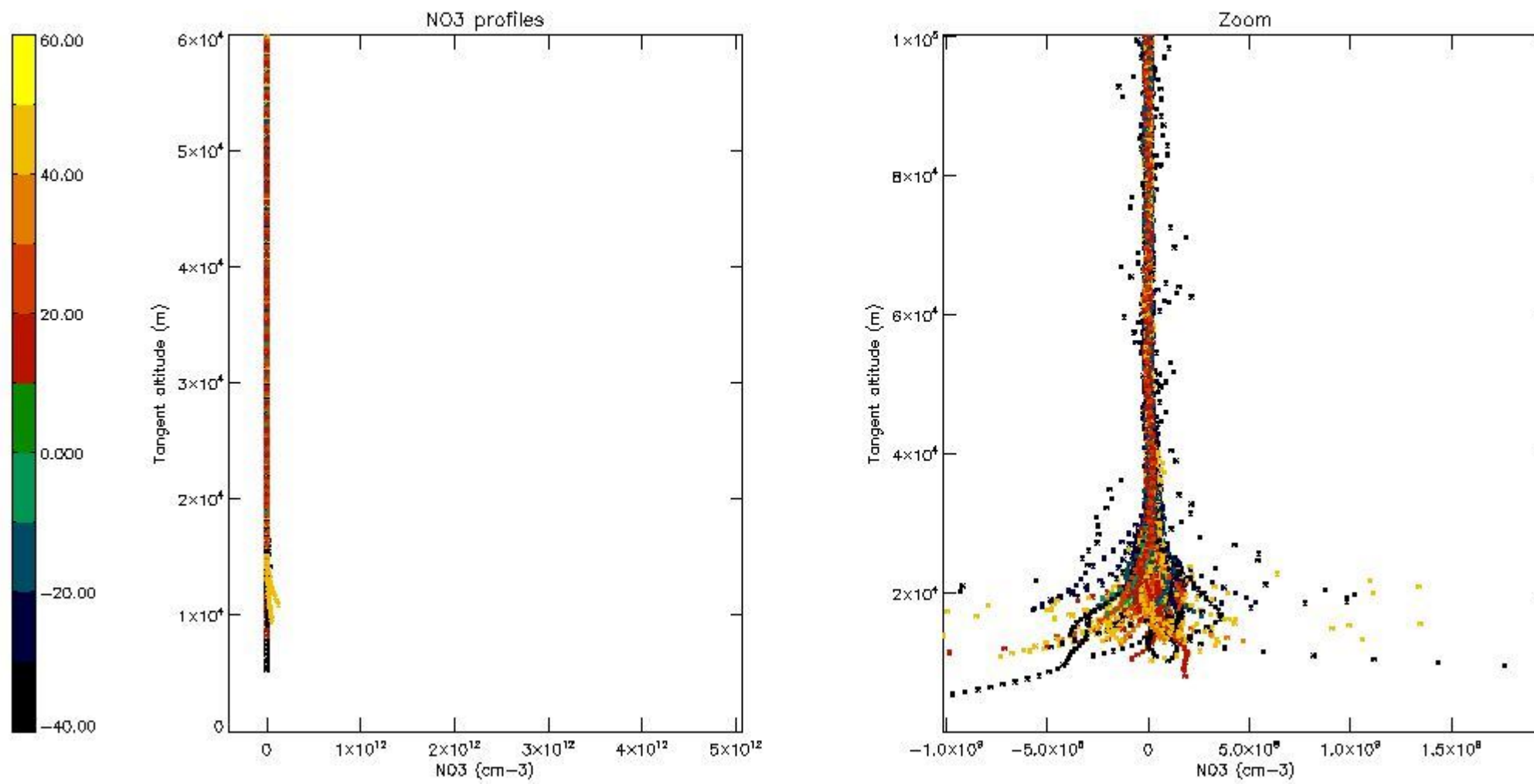
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

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	03-JAN-2011 00:02:11
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-JAN-2011 00:02:11
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-JAN-2011 00:02:11

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#### [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](#)

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













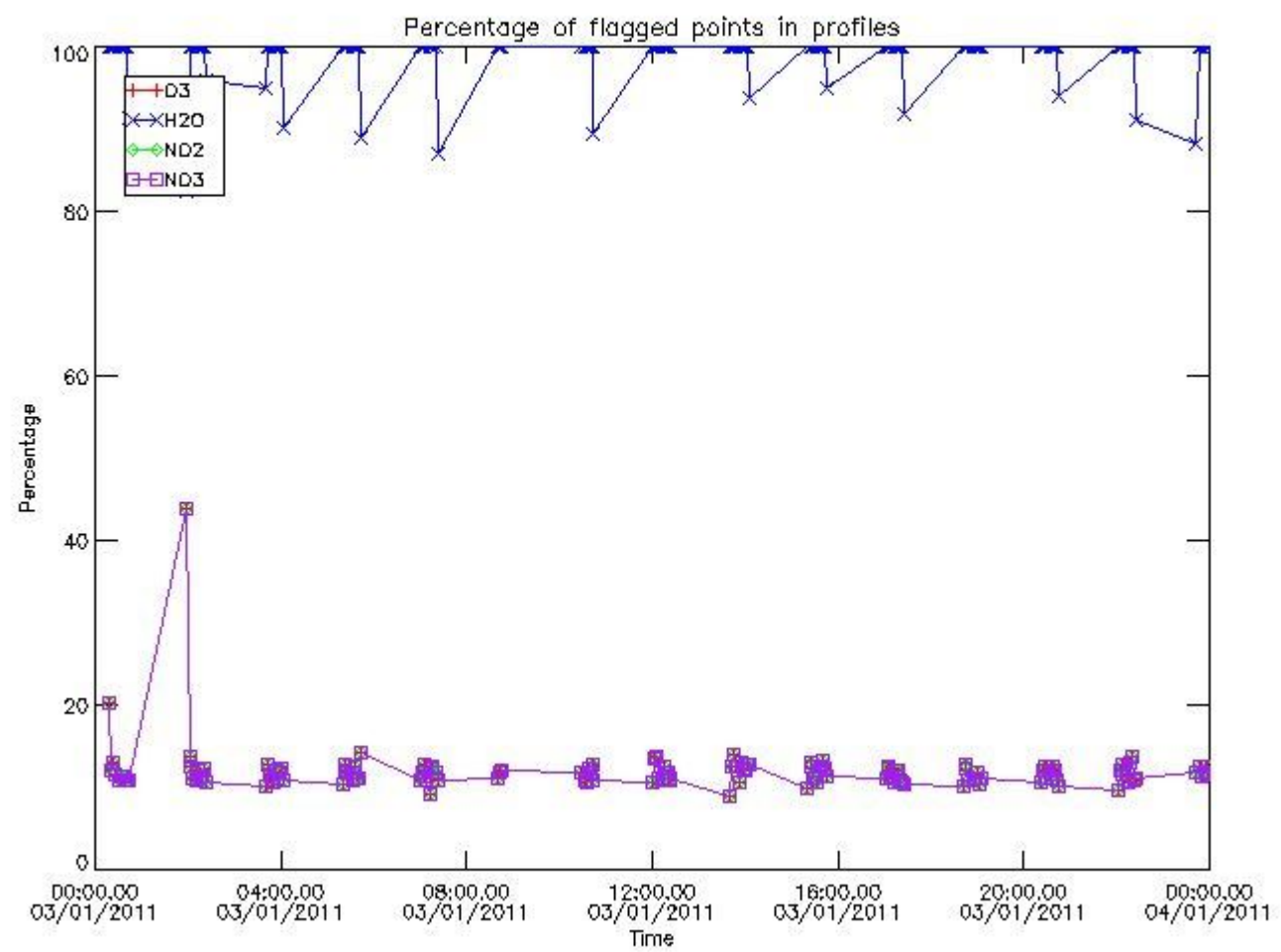


338	GOM_NL__2PRFIN20110103_221434_000000493098_00116_46251_3453.N1	03-JAN-2011 22:14:34	Dark	48.500	113	Mu Vel	2.6920	5000.0	97	46251	No
339	GOM_NL__2PRFIN20110103_221653_000000433098_00116_46251_3454.N1	03-JAN-2011 22:16:53	Dark	43.000	71	lot Car	2.2460	7700.0	86	46251	No
340	GOM_NL__2PRFIN20110103_221847_000000413098_00116_46251_3455.N1	03-JAN-2011 22:18:47	Dark	40.500	46	Del Vel	1.9540	10600.	81	46251	No
341	GOM_NL__2PRFIN20110103_222136_000000473098_00116_46251_3456.N1	03-JAN-2011 22:21:36	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	46251	No
342	GOM_NL__2PRFIN20110103_222347_000000483098_00116_46251_3457.N1	03-JAN-2011 22:23:47	Dark	47.500	70	Zet Pup	2.2460	39000.	95	46251	No
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345	GOM_NL__2PRFIN20110103_222959_000000443098_00116_46251_3460.N1	03-JAN-2011 22:29:59	Straylight	43.500	179	24Omi2CMa	3.0320	24000.	87	46251	No
346	GOM_NL__2PRFIN20110103_223223_000000463098_00116_46251_3461.N1	03-JAN-2011 22:32:23	Straylight	46.000	1	9Alp CMa	-1.4400	11000.	92	46251	No
347	GOM_NL__2PRFIN20110103_223946_000000493098_00116_46251_3462.N1	03-JAN-2011 22:39:46	Twl_and_stray	49.000	14	58Alp Ori	0.87000	3000.0	98	46251	No
348	GOM_NL__2PRFIN20110103_224249_000000493098_00116_46251_3463.N1	03-JAN-2011 22:42:49	Twl_and_stray	48.500	44	24Gam Gem	1.9280	11000.	97	46251	No
349	GOM_NL__2PRFIN20110103_224428_000000483098_00116_46251_3464.N1	03-JAN-2011 22:44:28	Bright	48.000	151	13Mu Gem	2.8900	3000.0	96	46251	No
350	GOM_NL__2PRFIN20110103_224830_000000393098_00116_46251_3465.N1	03-JAN-2011 22:48:30	Bright	38.500	107	37The Aur	2.6490	11000.	77	46251	No
351	GOM_NL__2PRFIN20110103_225043_000000403098_00116_46251_3466.N1	03-JAN-2011 22:50:43	Bright	39.500	42	34Bet Aur	1.9000	10200.	79	46251	No
352	GOM_NL__2PRFIN20110103_230715_000000363098_00116_46251_3467.N1	03-JAN-2011 23:07:15	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	46251	No
353	GOM_NL__2PRFIN20110103_231039_000000373098_00116_46251_3468.N1	03-JAN-2011 23:10:39	Bright	37.000	32	77Eps UMa	1.7630	11000.	74	46251	No
354	GOM_NL__2PRFIN20110103_231143_000000443098_00116_46251_3469.N1	03-JAN-2011 23:11:43	Bright	44.000	55	79Zet UMa	2.0600	10200.	88	46251	No
355	GOM_NL__2PRFIN20110103_231405_000000573098_00116_46251_3470.N1	03-JAN-2011 23:14:05	Bright	57.000	39	85Eta UMa	1.8540	24000.	114	46251	No
356	GOM_NL__2PRFIN20110103_231819_000000653098_00116_46251_3471.N1	03-JAN-2011 23:18:19	Bright	65.000	180	27Gam Boo	3.0400	8000.0	130	46251	No
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358	GOM_NL__2PRFIN20110103_232533_000000263098_00116_46251_3473.N1	03-JAN-2011 23:25:33	Twl_and_stray	26.000	3	16Alp Boo	-0.050000	4250.0	52	46251	No
359	GOM_NL__2PRFIN20110103_232728_000000373098_00116_46251_3474.N1	03-JAN-2011 23:27:28	Bright	37.000	102	24Alp Ser	2.6000	4250.0	74	46251	No
360	GOM_NL__2PRFIN20110103_233238_000000583098_00116_46251_3475.N1	03-JAN-2011 23:32:38	Bright	58.000	104	27Bet Lib	2.6140	13100.	116	46251	No
361	GOM_NL__2PRFIN20110103_233523_000000453098_00116_46251_3476.N1	03-JAN-2011 23:35:23	Twl_and_stray	44.500	122	9Alp2Lib	2.7470	9700.0	89	46251	No
362	GOM_NL__2PRFIN20110103_234220_000000473098_00116_46251_3477.N1	03-JAN-2011 23:42:20	Dark	47.000	54	5The Cen	2.0550	4500.0	94	46251	No
363	GOM_NL__2PRFIN20110103_234643_000000413098_00117_46252_3467.N1	03-JAN-2011 23:46:43	Dark	41.000	77	Eps Cen	2.3030	28000.	82	46252	No
364	GOM_NL__2PRFIN20110103_234838_000000453098_00117_46252_3468.N1	03-JAN-2011 23:48:38	Dark	45.000	64	Gam Cen	2.2000	10600.	90	46252	No
365	GOM_NL__2PRFIN20110103_235449_000000473098_00117_46252_3469.N1	03-JAN-2011 23:54:49	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	46252	No
366	GOM_NL__2PRFIN20110103_235707_000000413098_00117_46252_3470.N1	03-JAN-2011 23:57:07	Dark	41.000	71	lot Car	2.2460	7700.0	82	46252	No
367	GOM_NL__2PRFIN20110103_235901_000000443098_00117_46252_3471.N1	03-JAN-2011 23:59:01	Dark	44.000	46	Del Vel	1.9540	10600.	88	46252	No

### *3. Quality information per product*

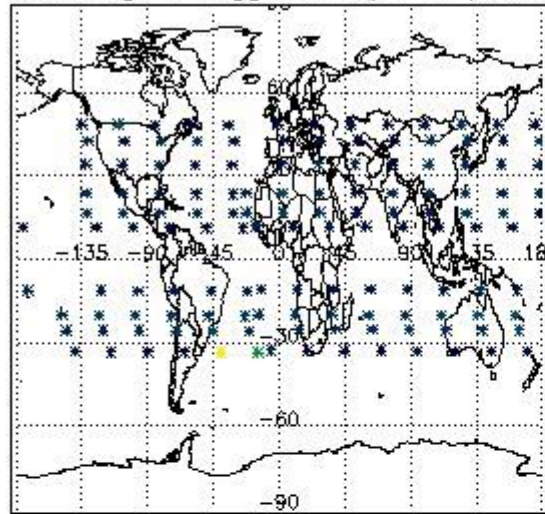
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

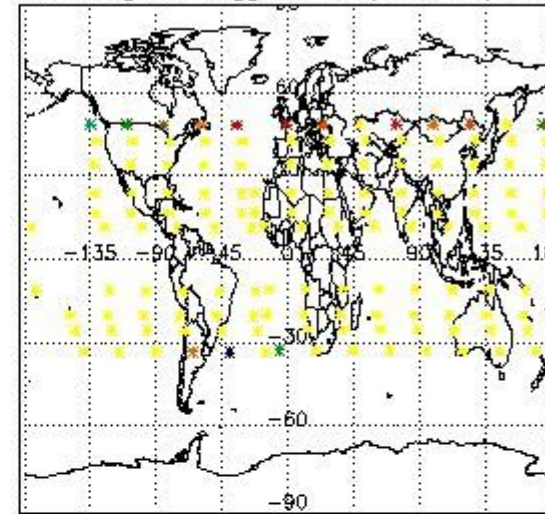


3.2 Plot quality information per product (world map)

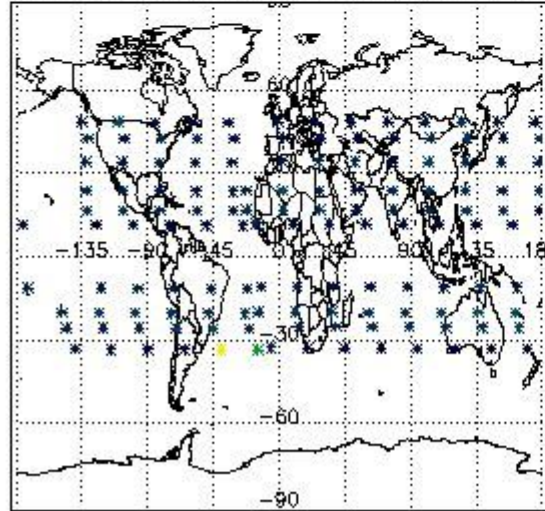
Percentage of flagged data per O3 profile



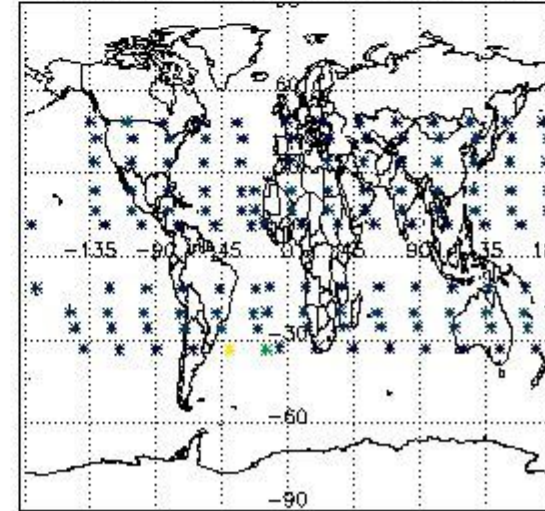
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

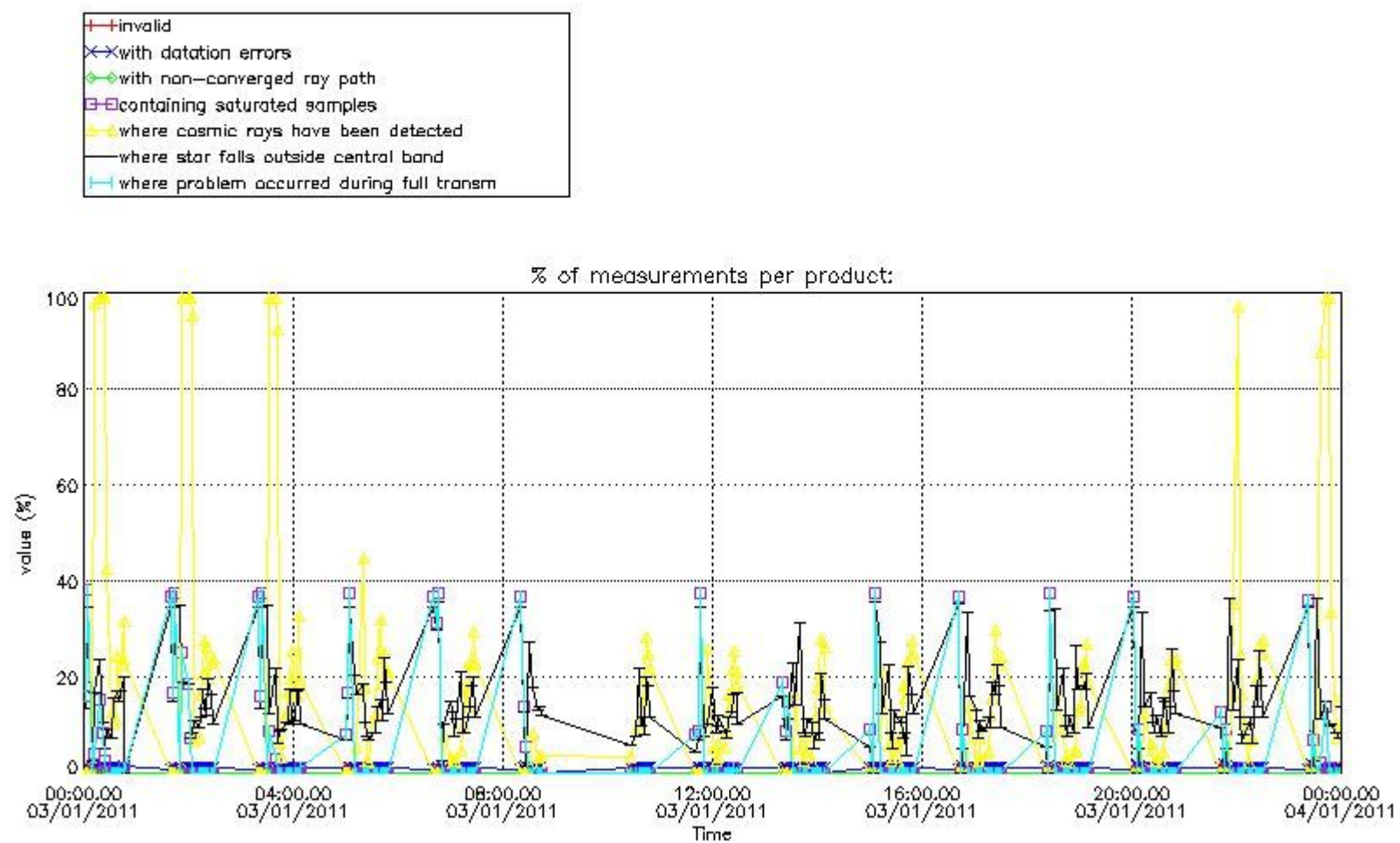


#### 4. Level 1 quality information per product

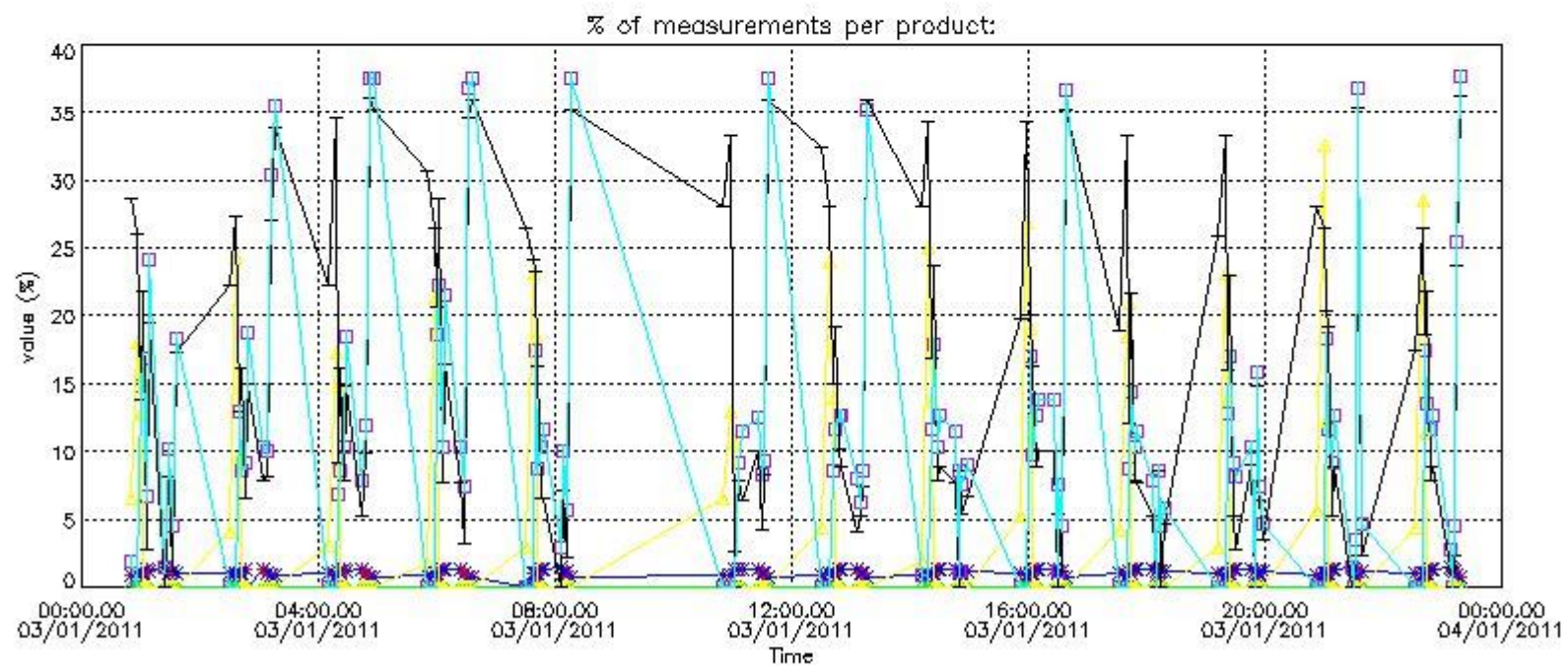
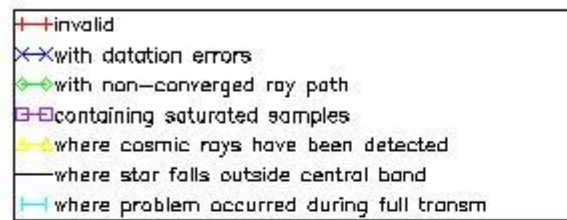
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



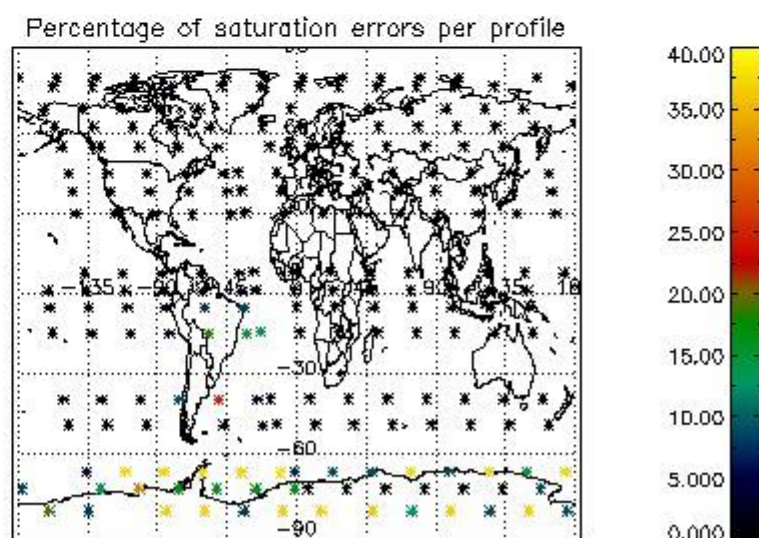
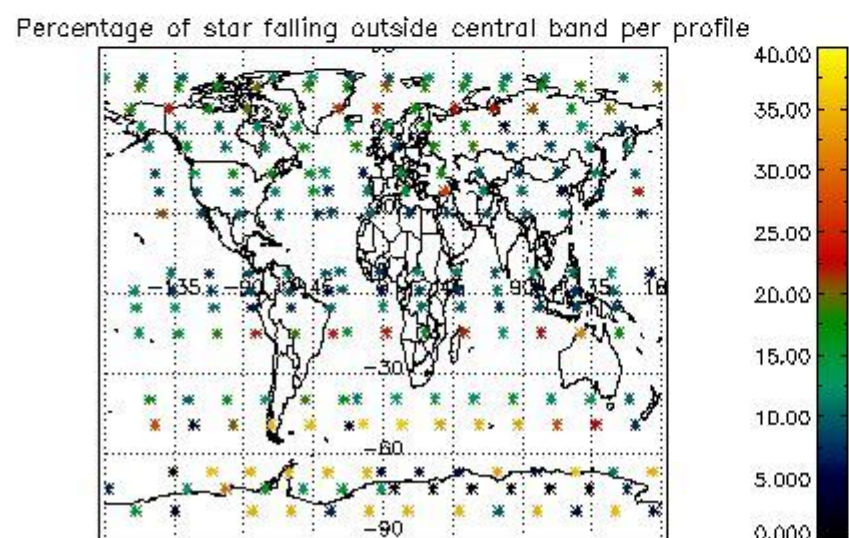
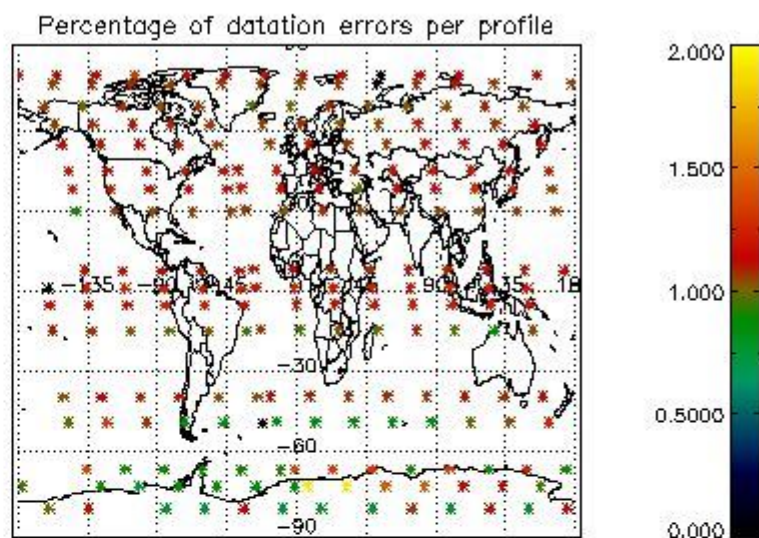
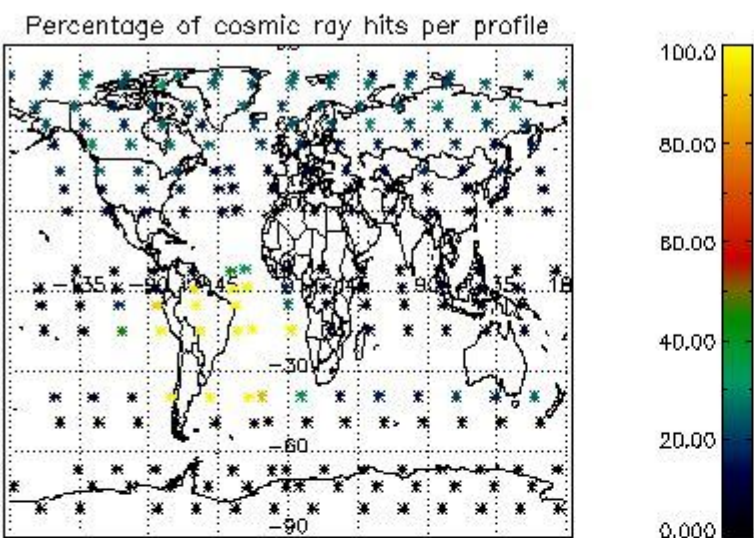
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



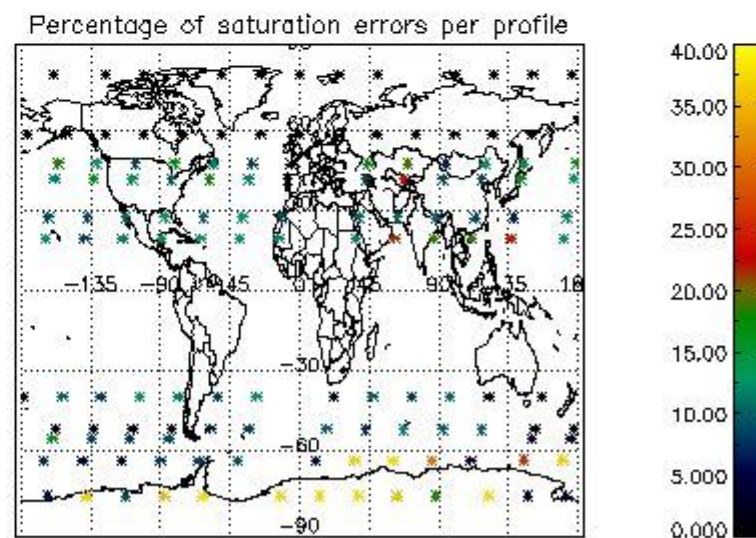
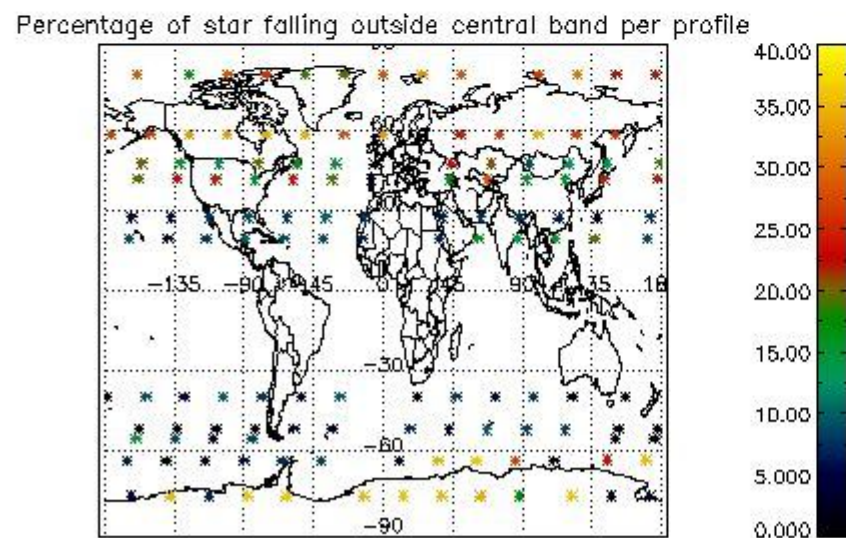
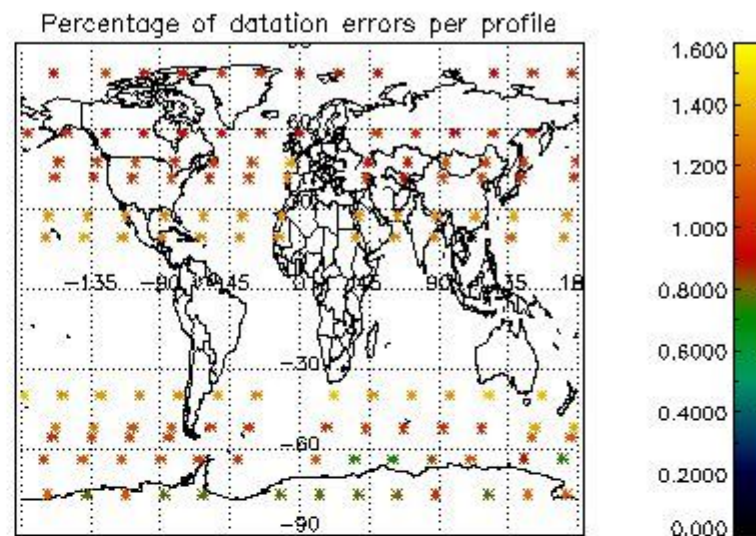
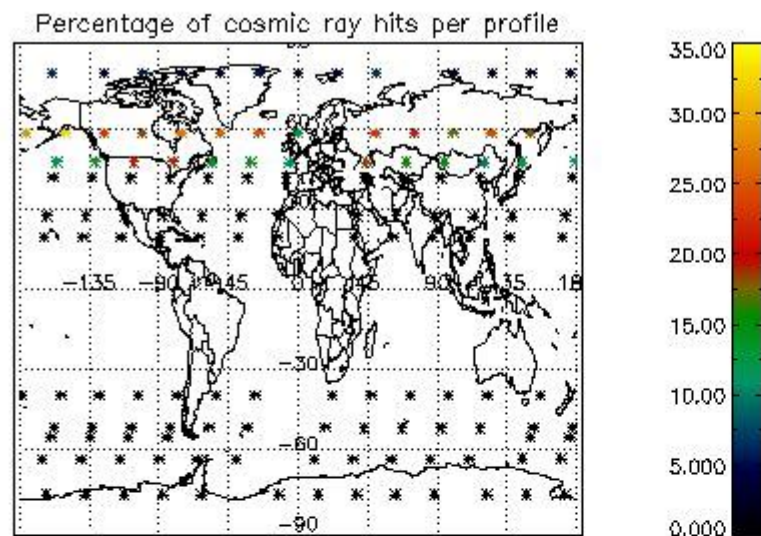
*4.2 Plot quality information per product coming from level 1b processing (world map)*

*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

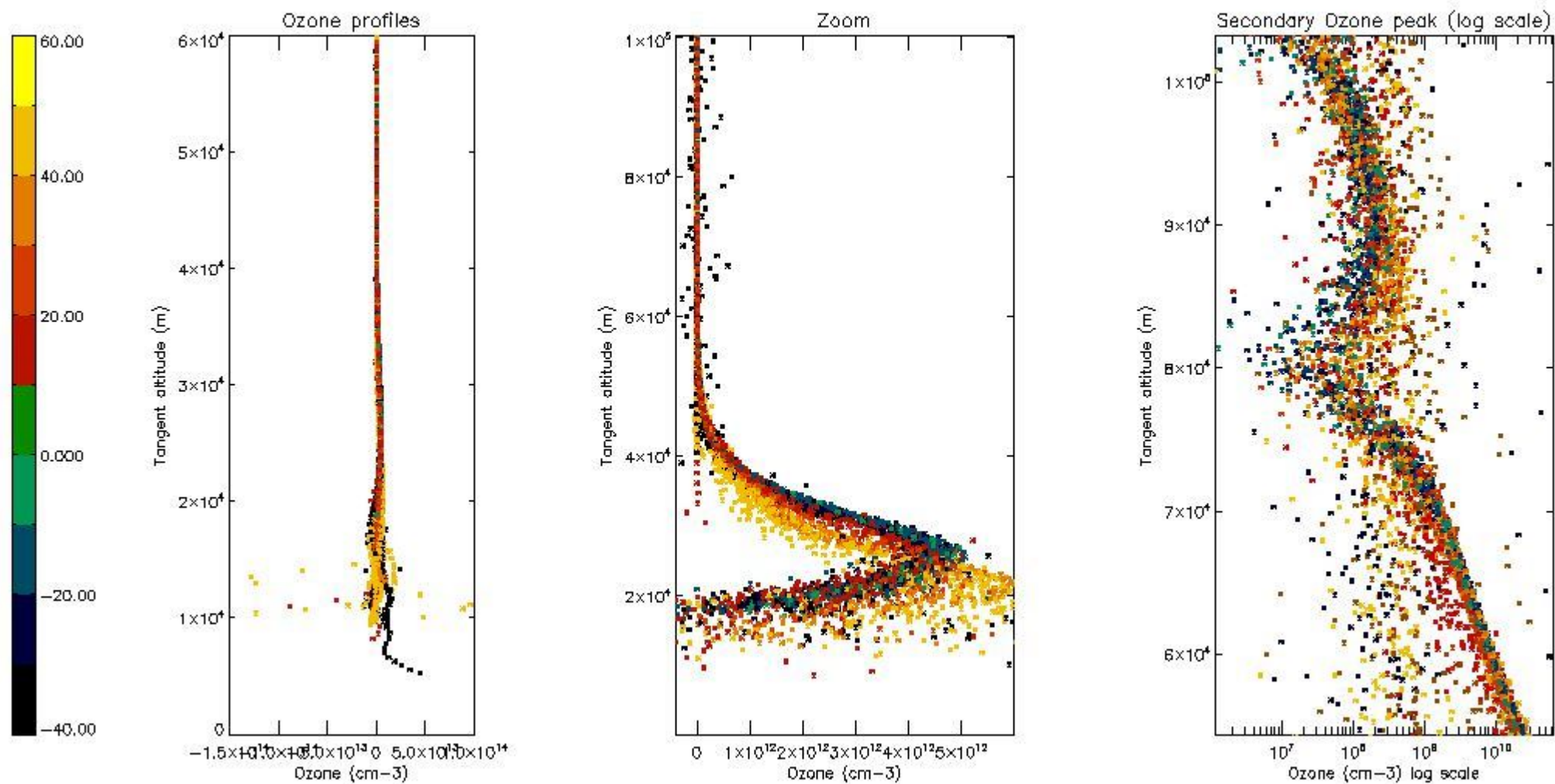
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	16

STD < 10	13
STD < 5	7

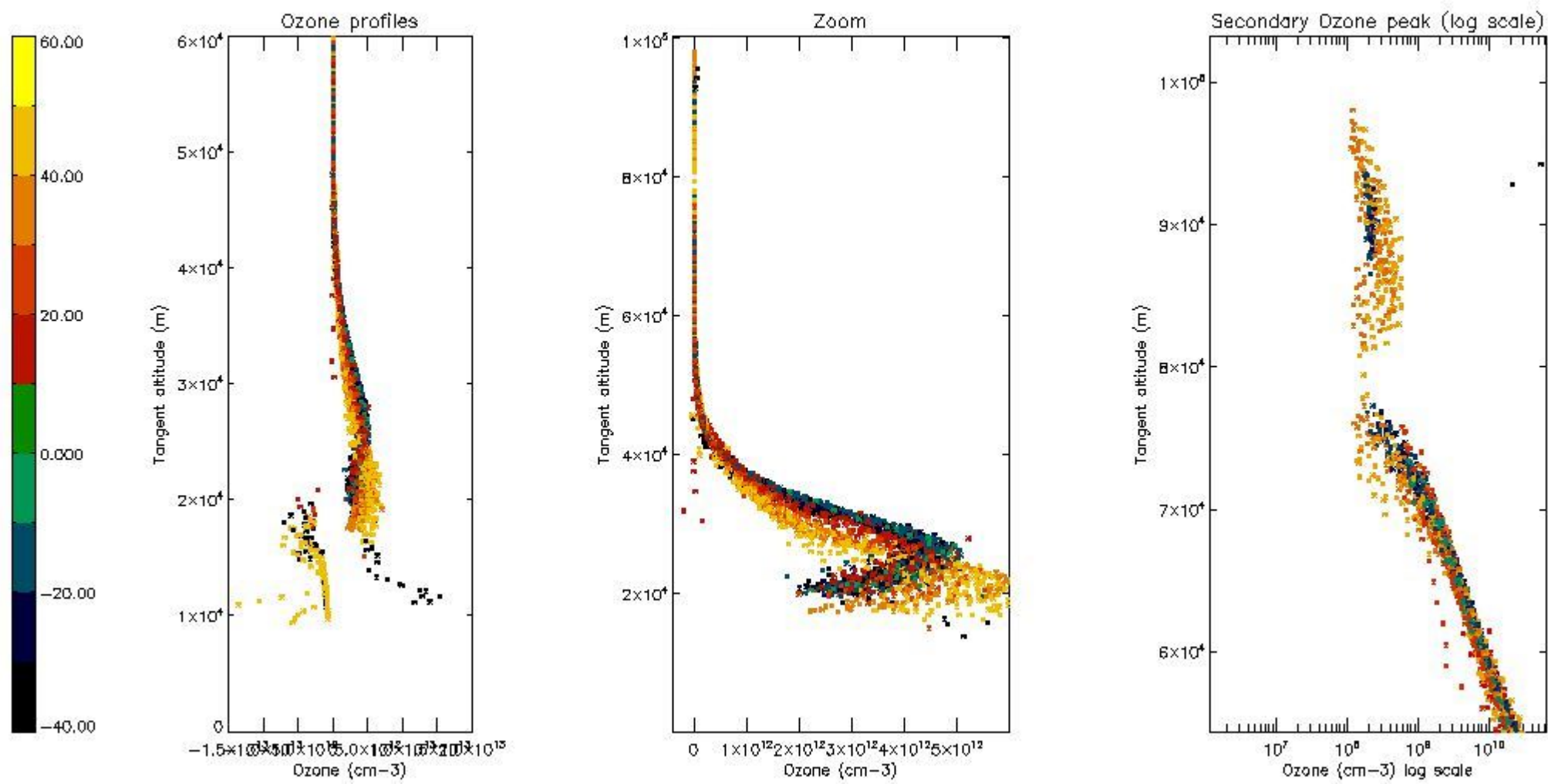
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



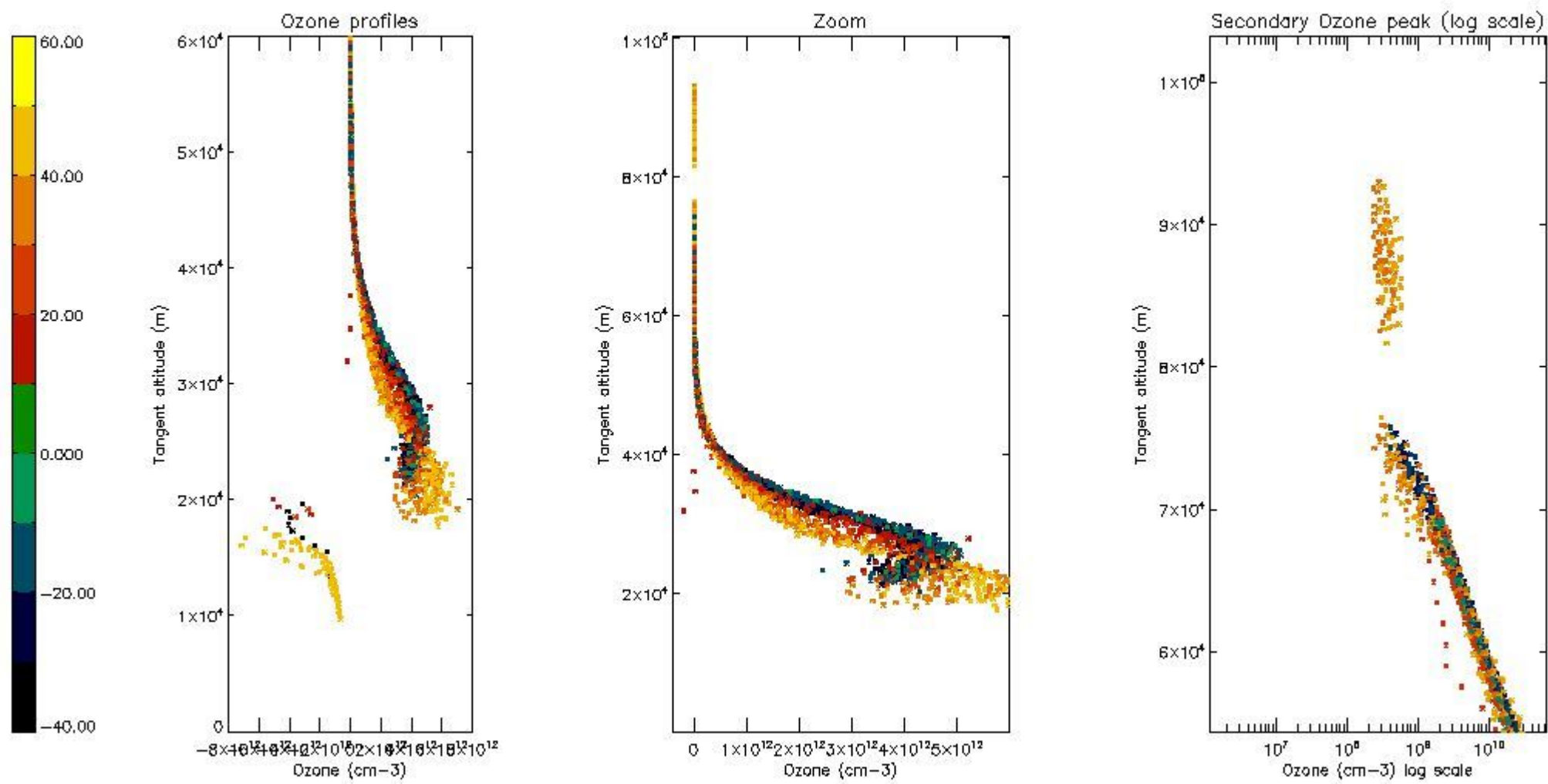
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



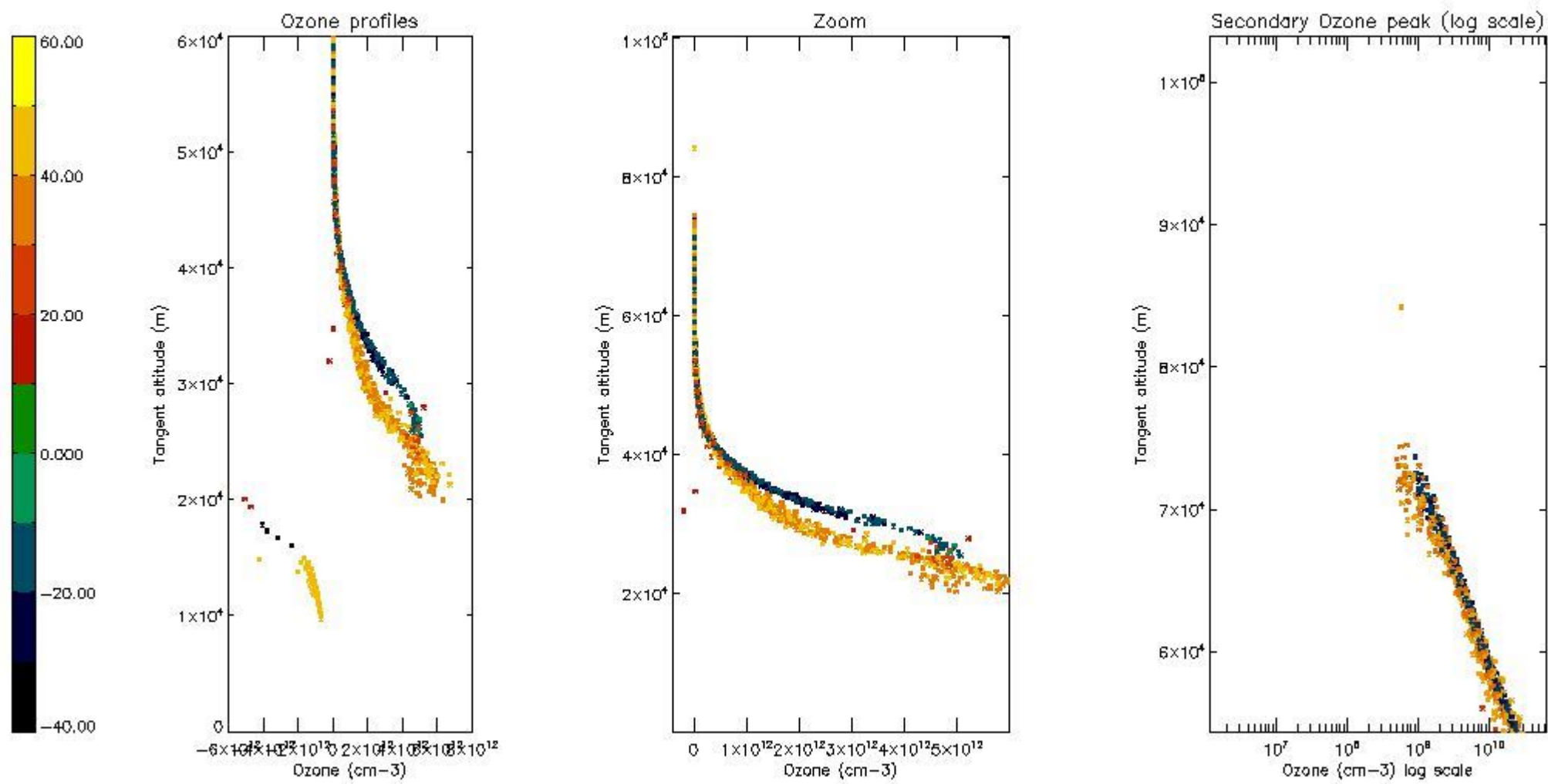
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



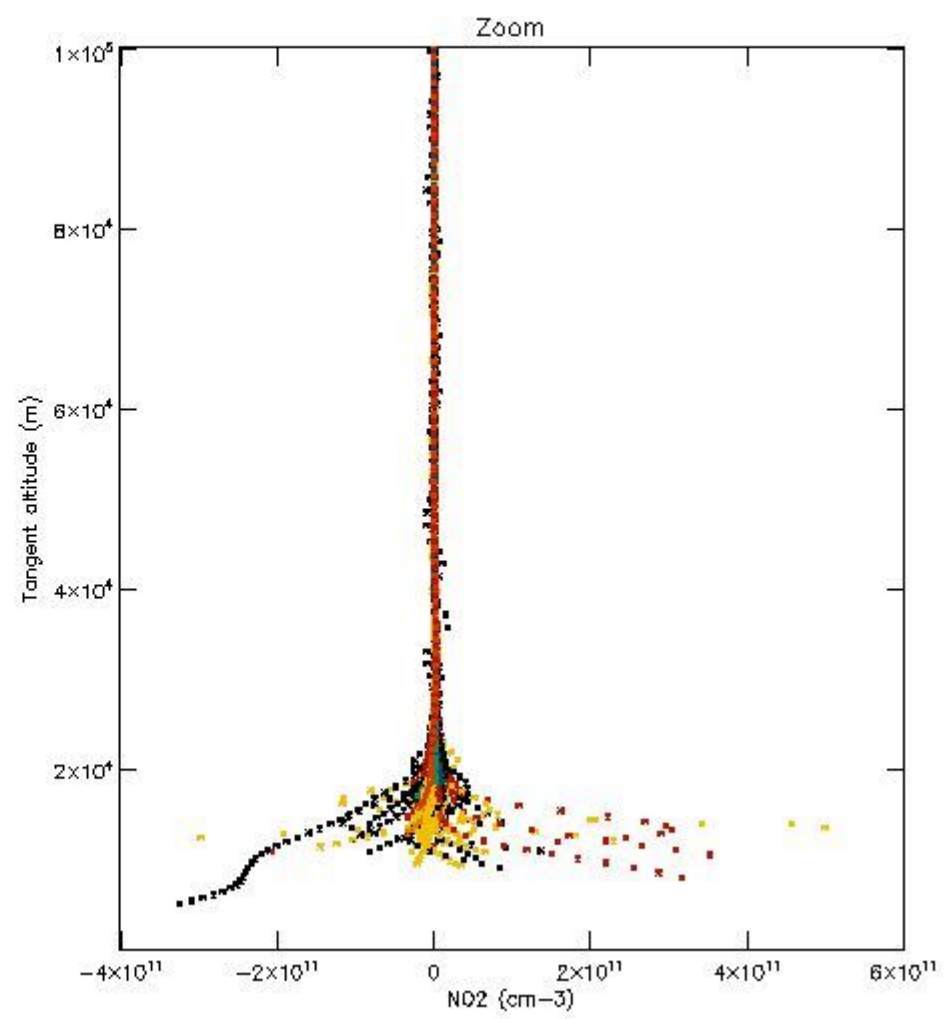
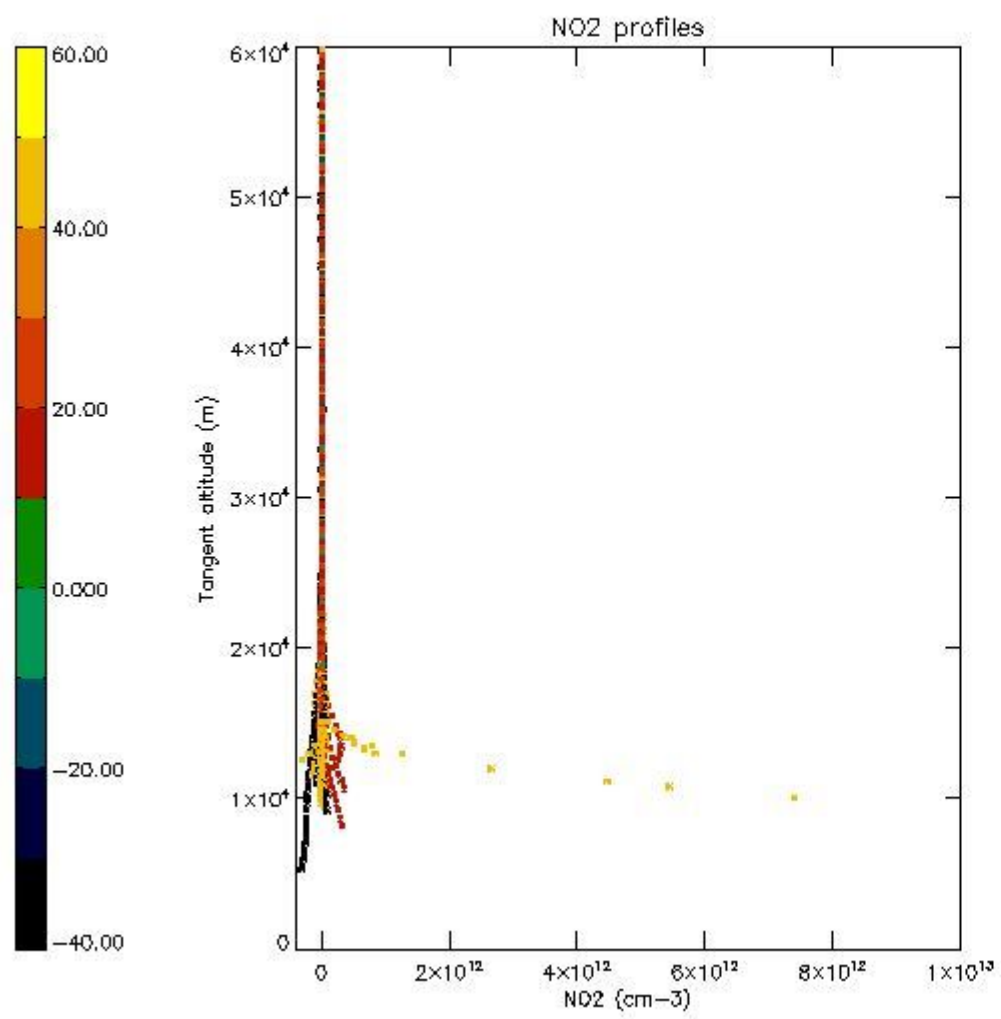
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



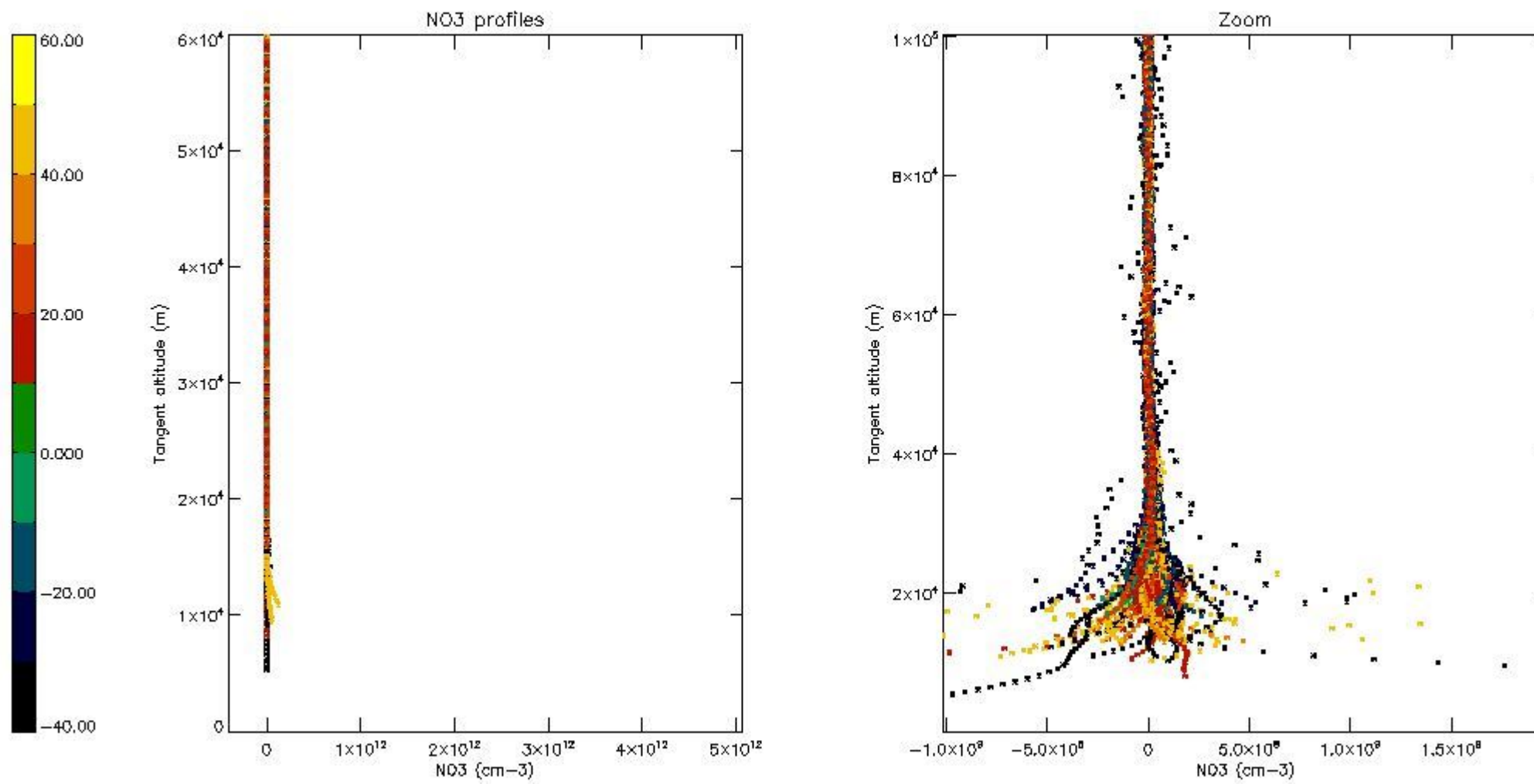
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.

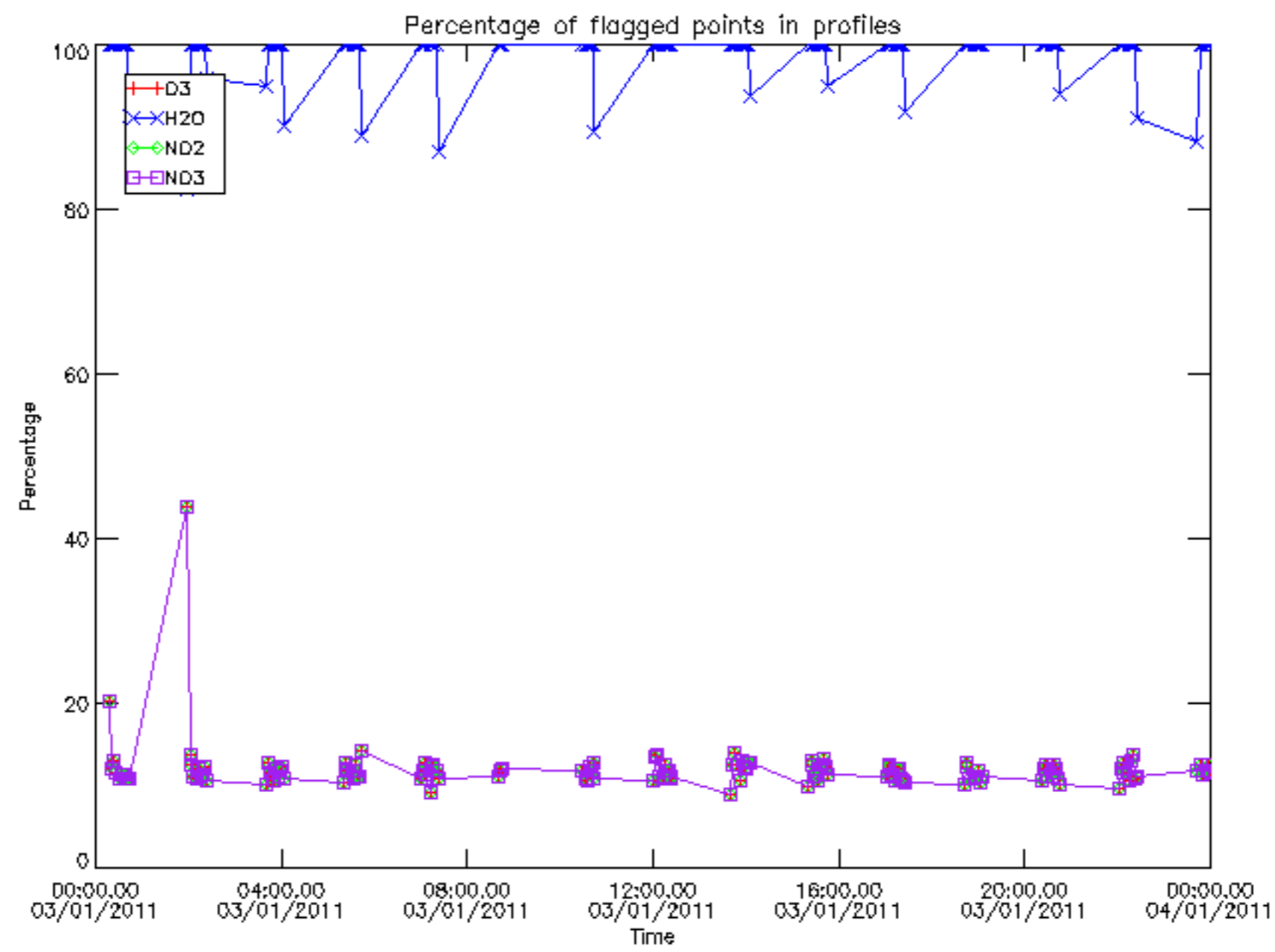


## 6. Auxiliary Data Files used for the production reported in section 2

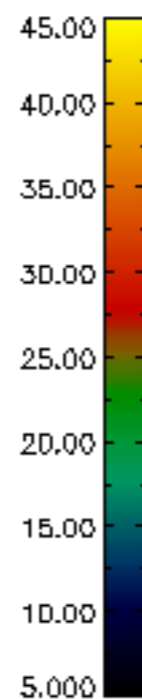
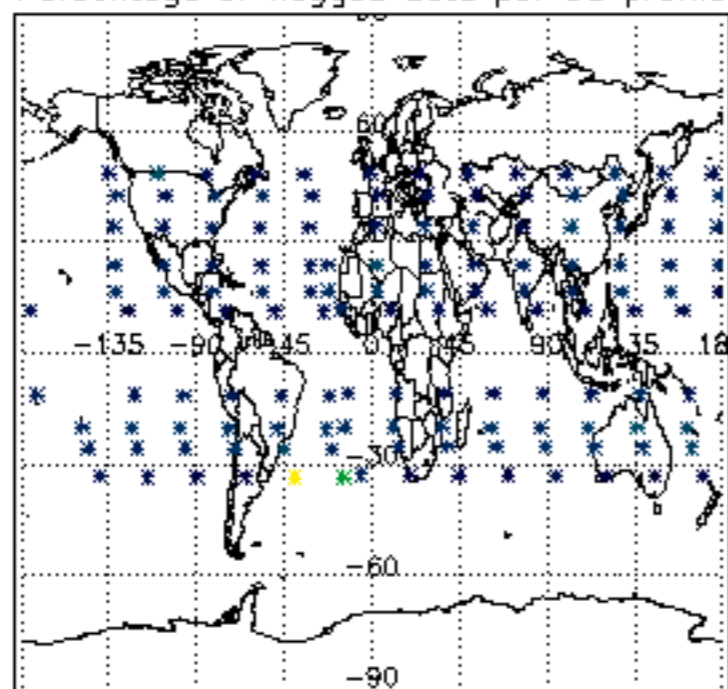
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	03-JAN-2011 00:02:11
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-JAN-2011 00:02:11
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-JAN-2011 00:02:11

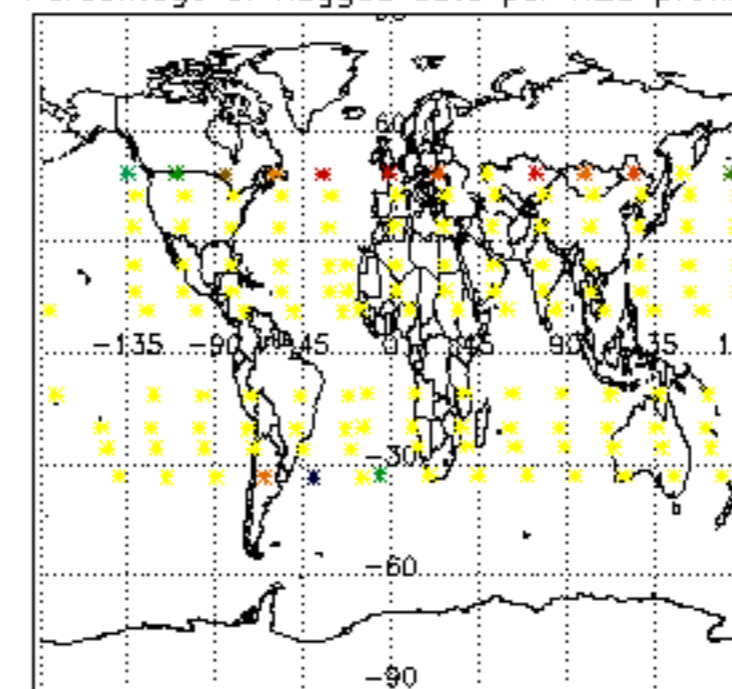




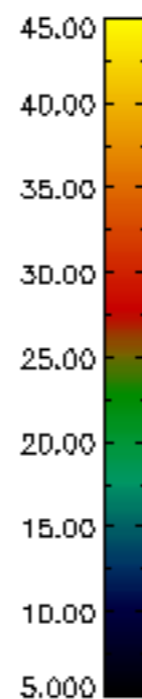
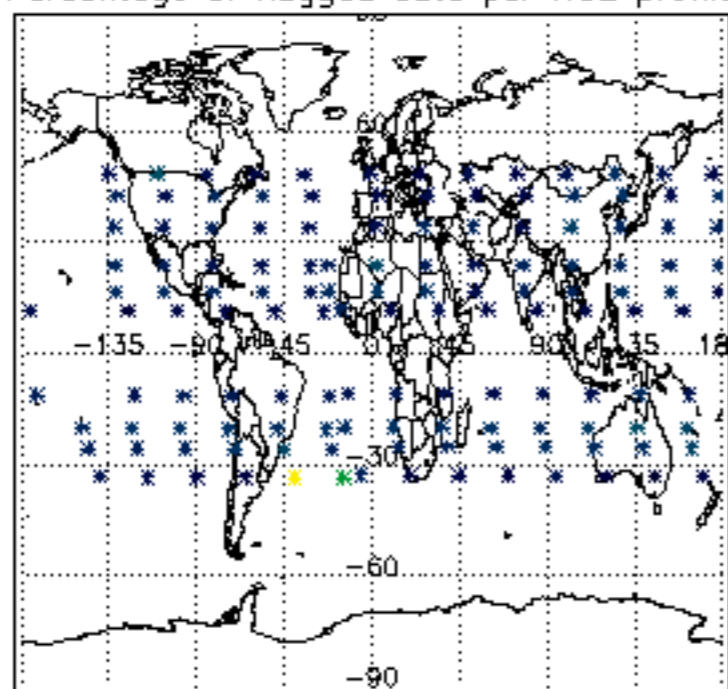
Percentage of flagged data per D3 profile



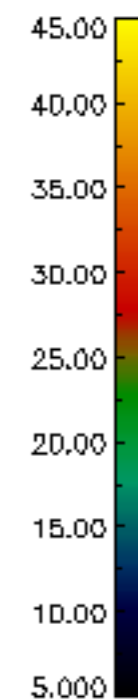
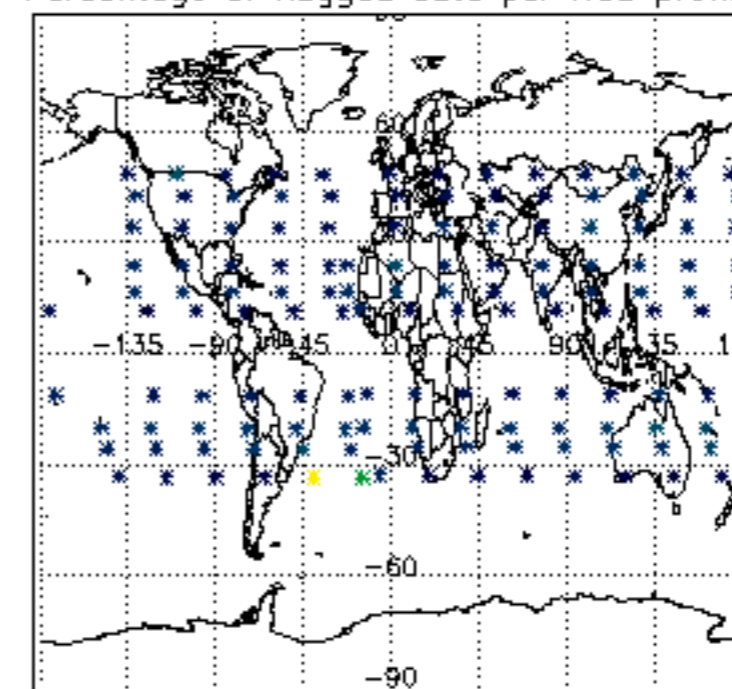
Percentage of flagged data per H2O profile

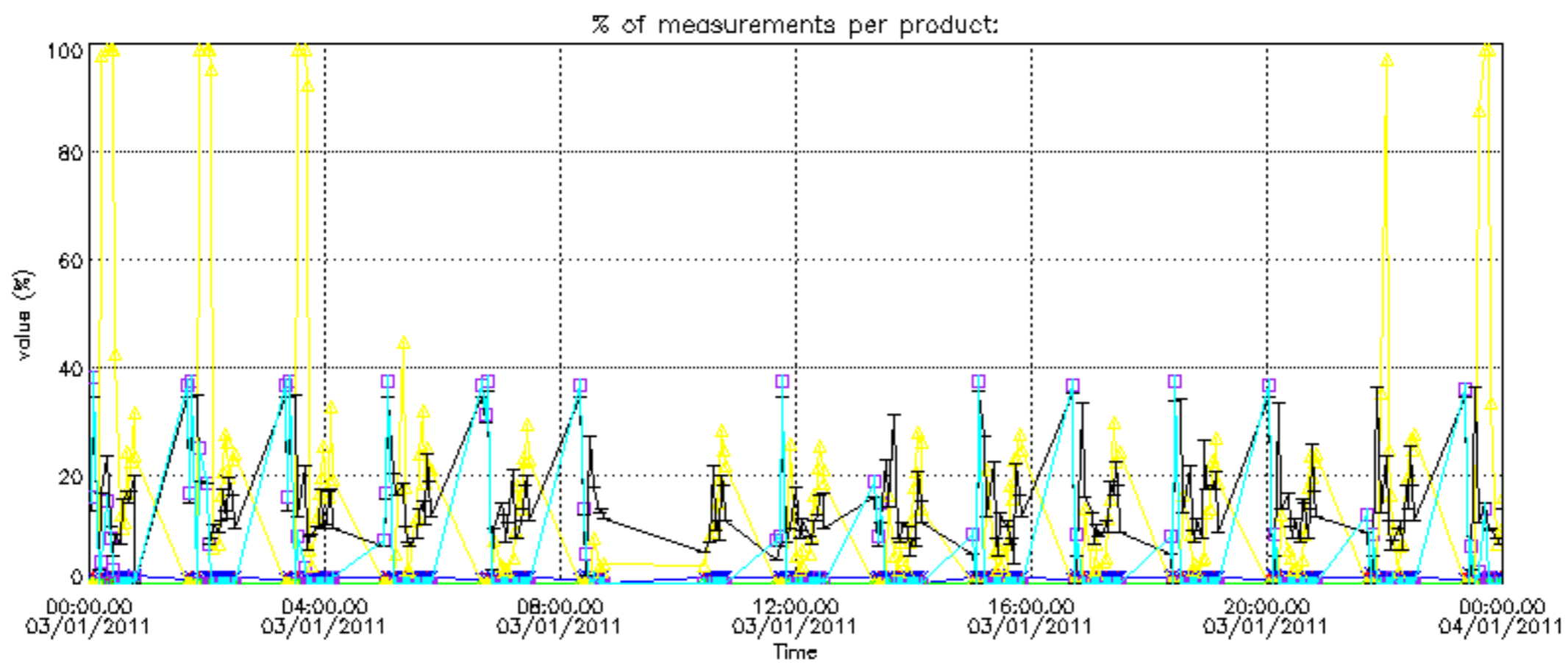


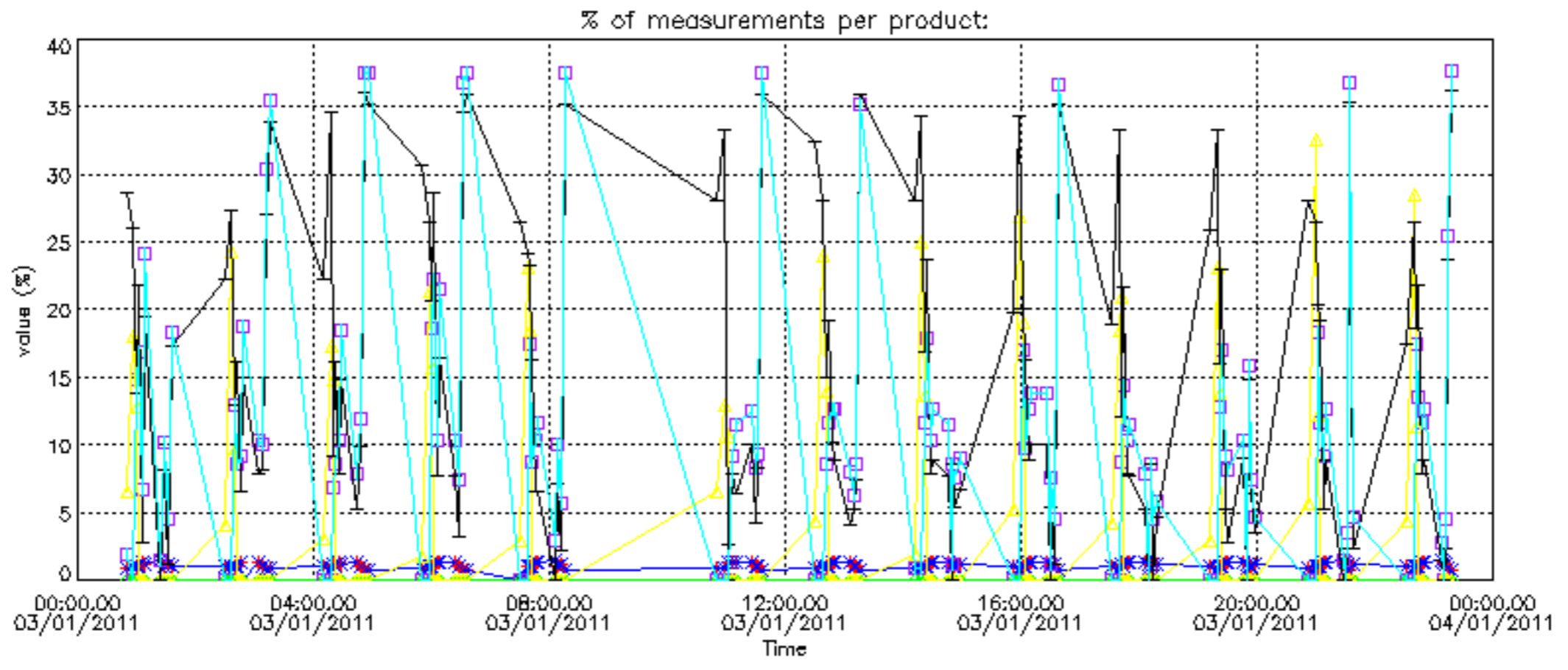
Percentage of flagged data per NO2 profile



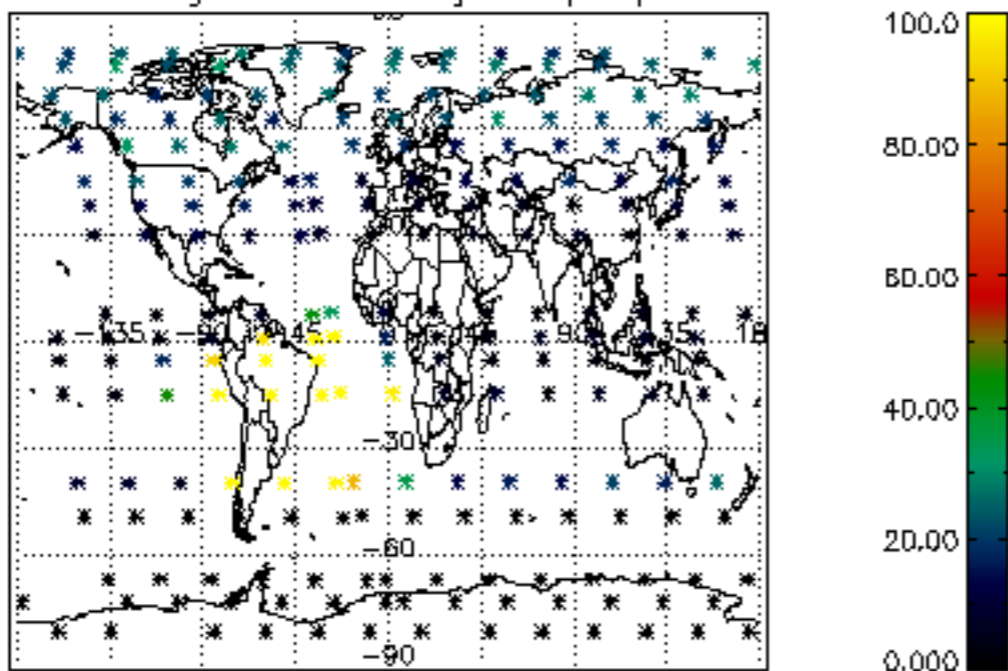
Percentage of flagged data per NO3 profile



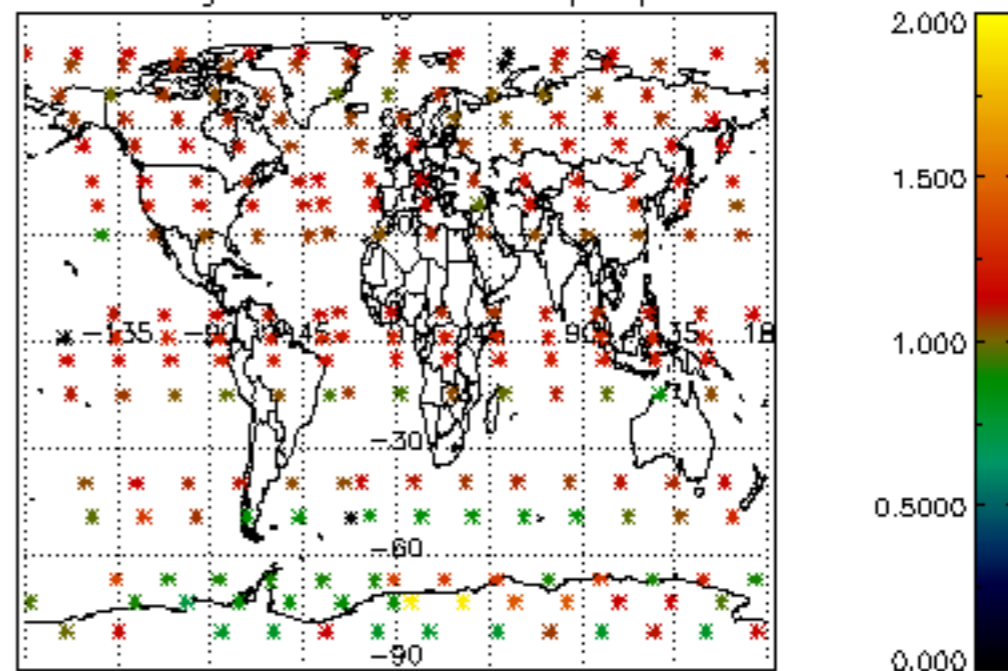




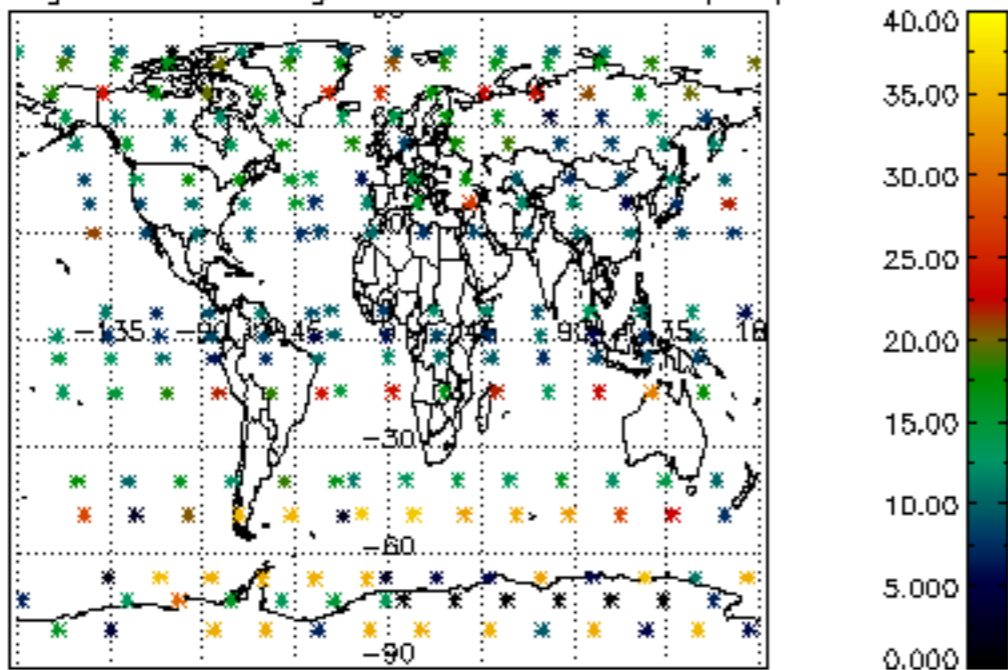
Percentage of cosmic ray hits per profile



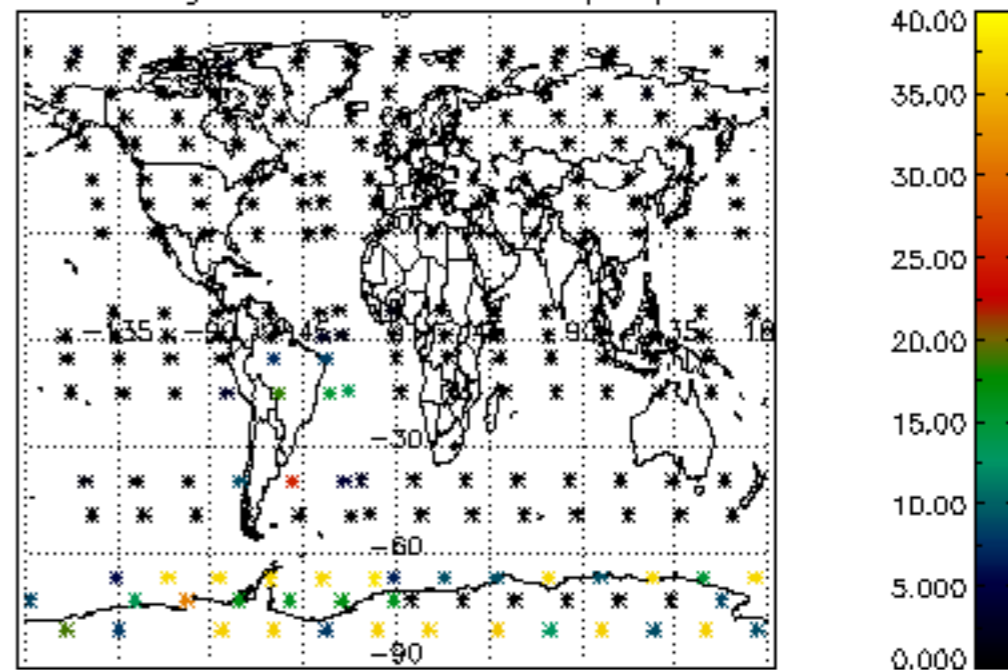
Percentage of datation errors per profile



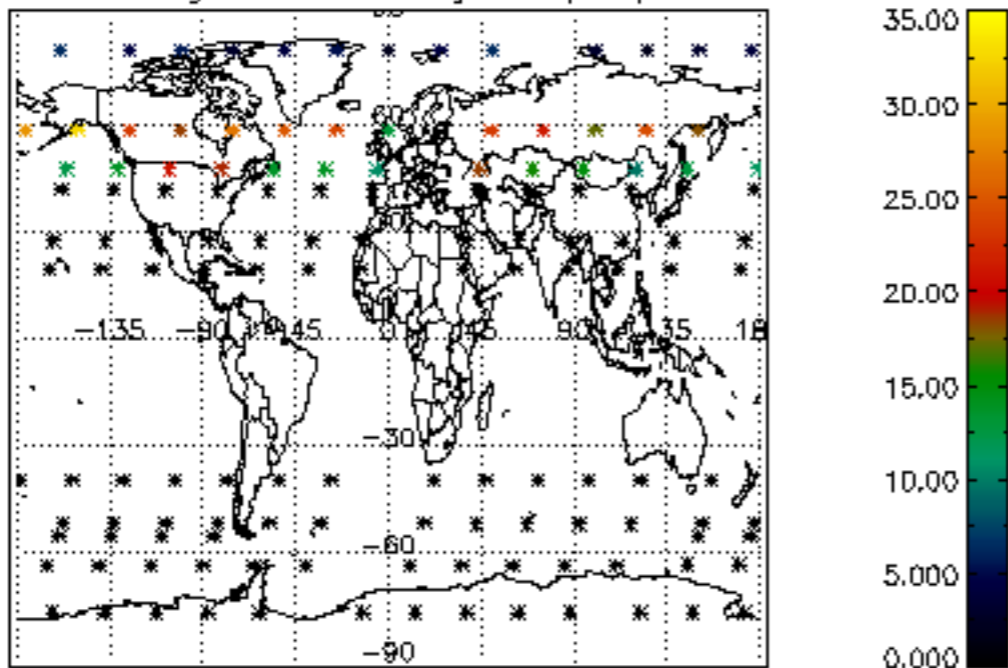
Percentage of star falling outside central band per profile



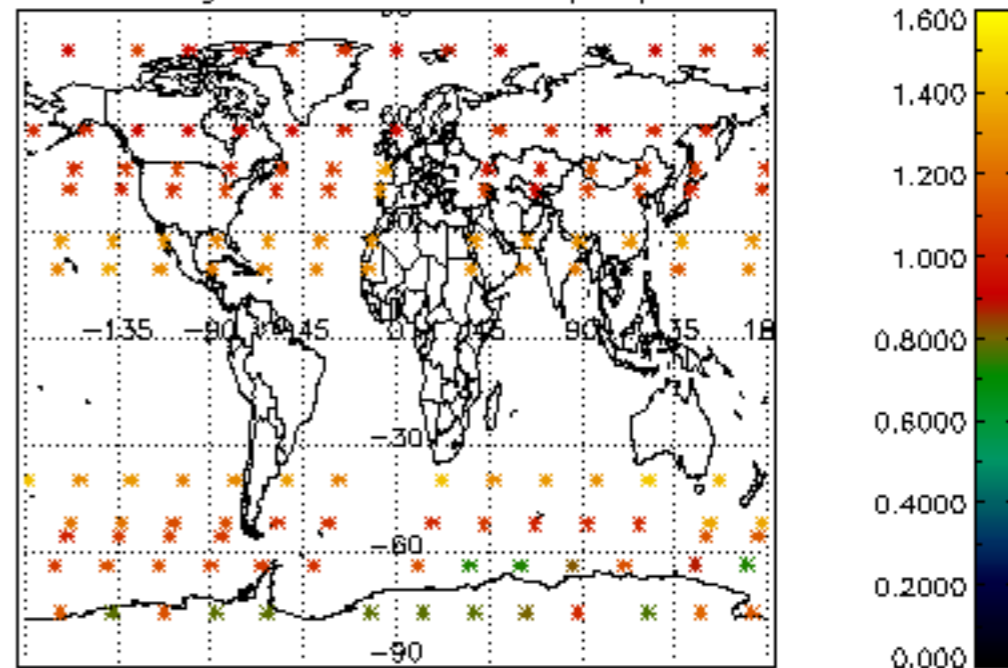
Percentage of saturation errors per profile



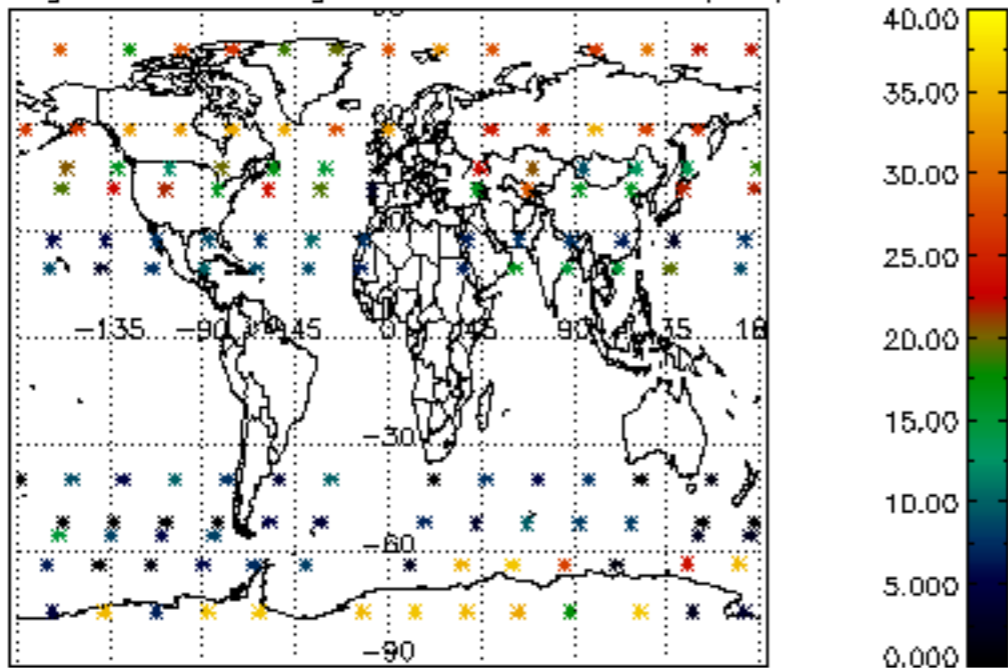
Percentage of cosmic ray hits per profile



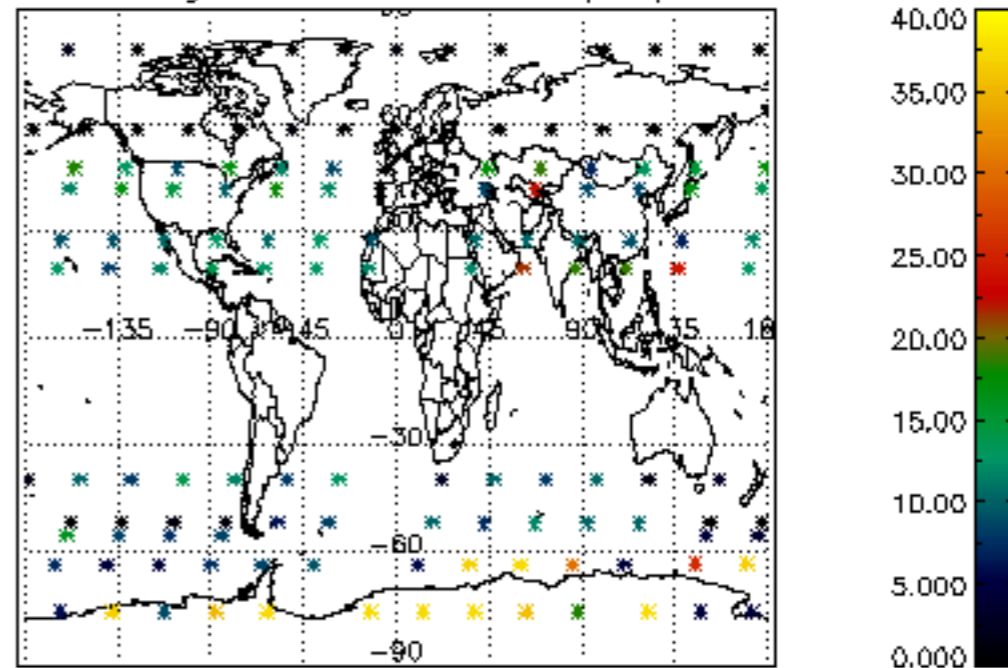
Percentage of datation errors per profile

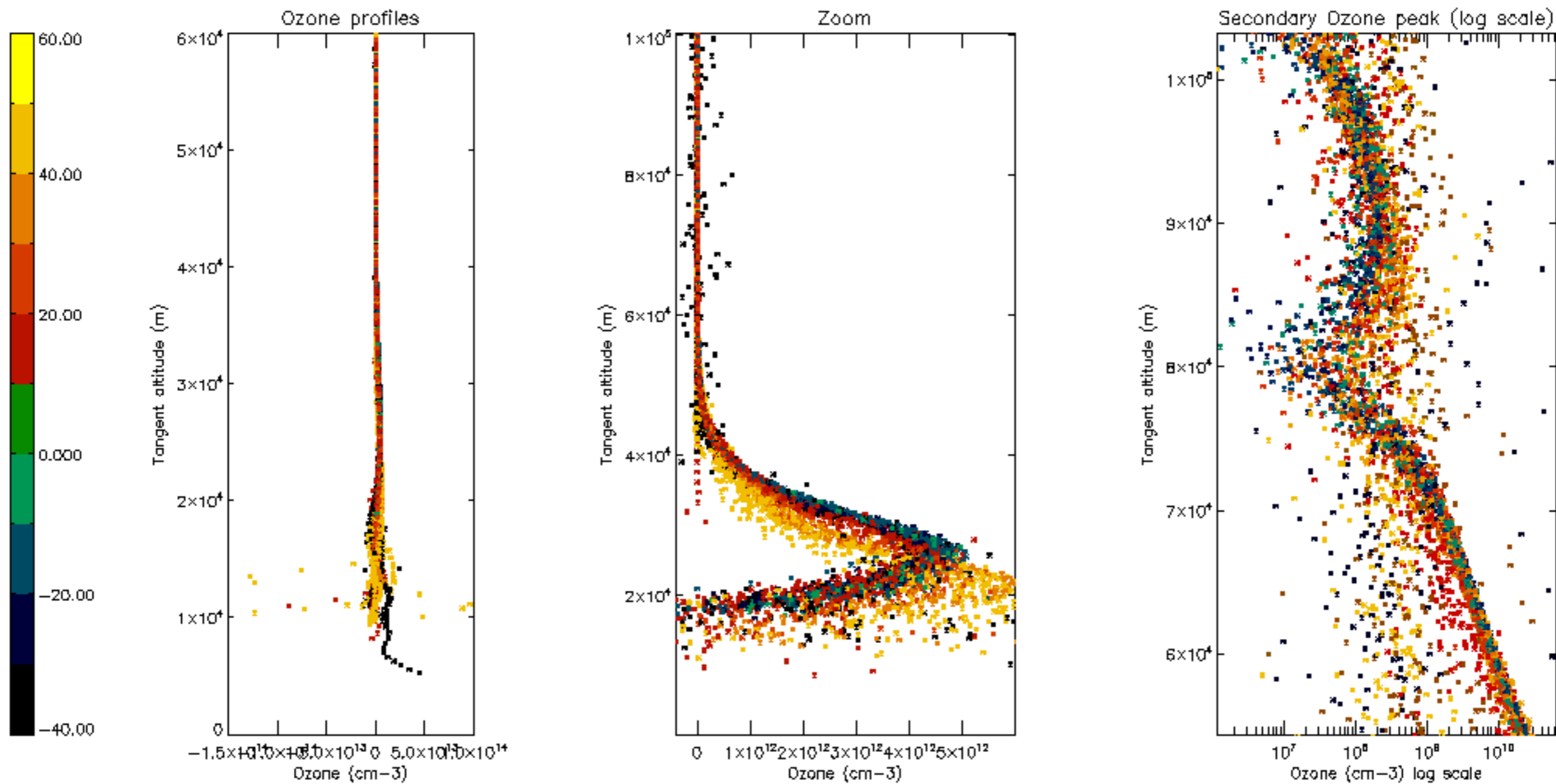


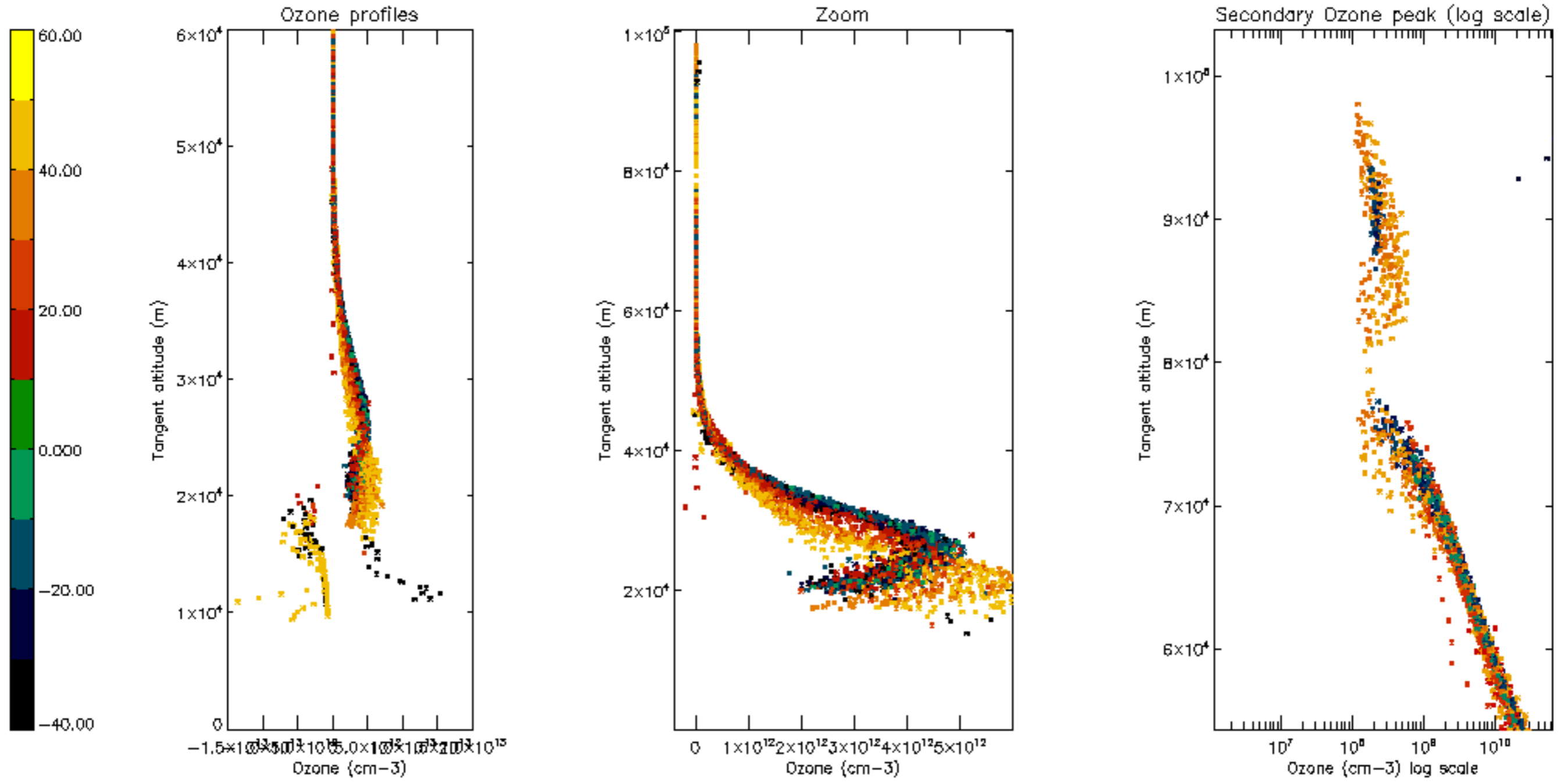
Percentage of star falling outside central band per profile



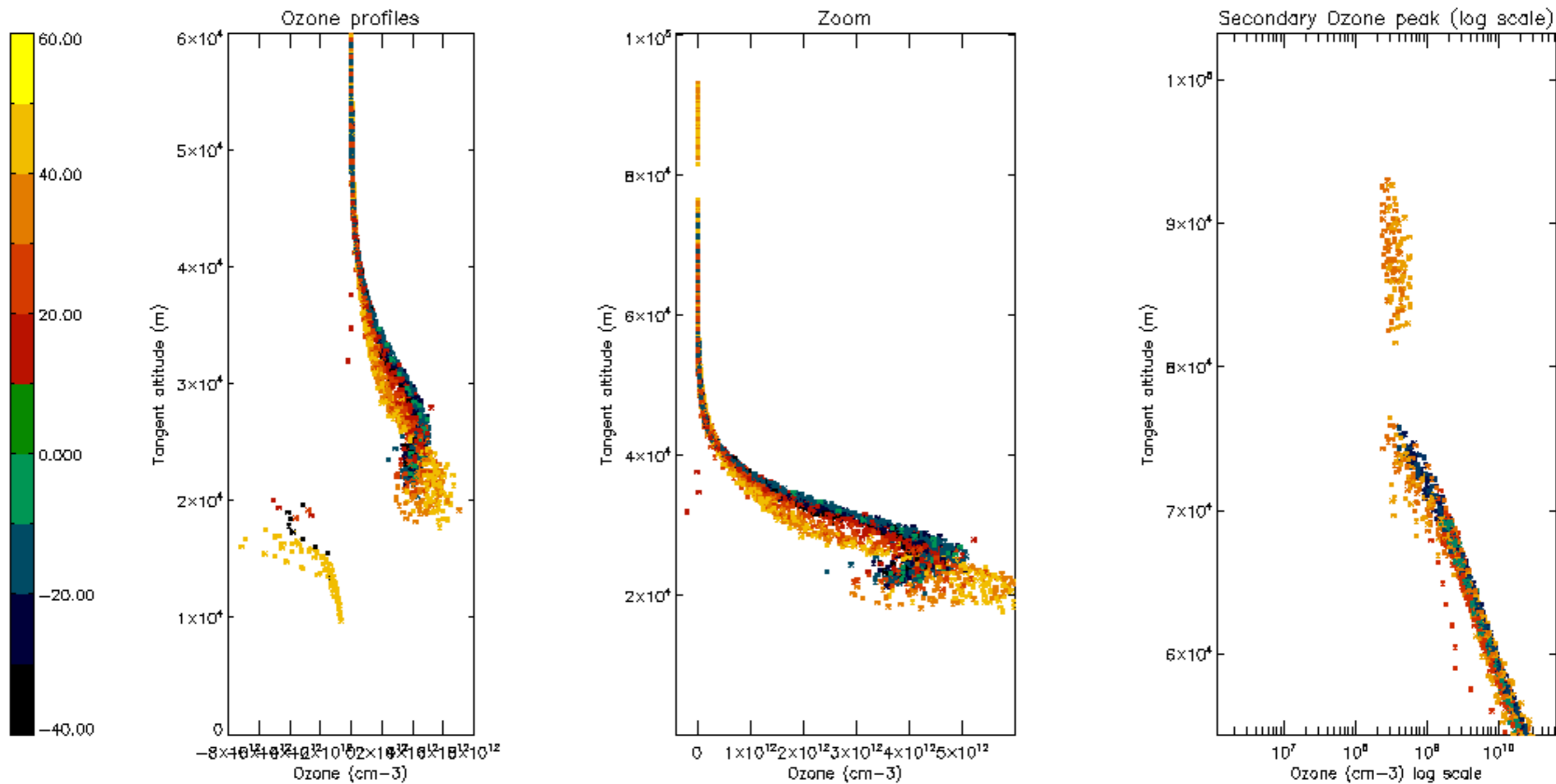
Percentage of saturation errors per profile

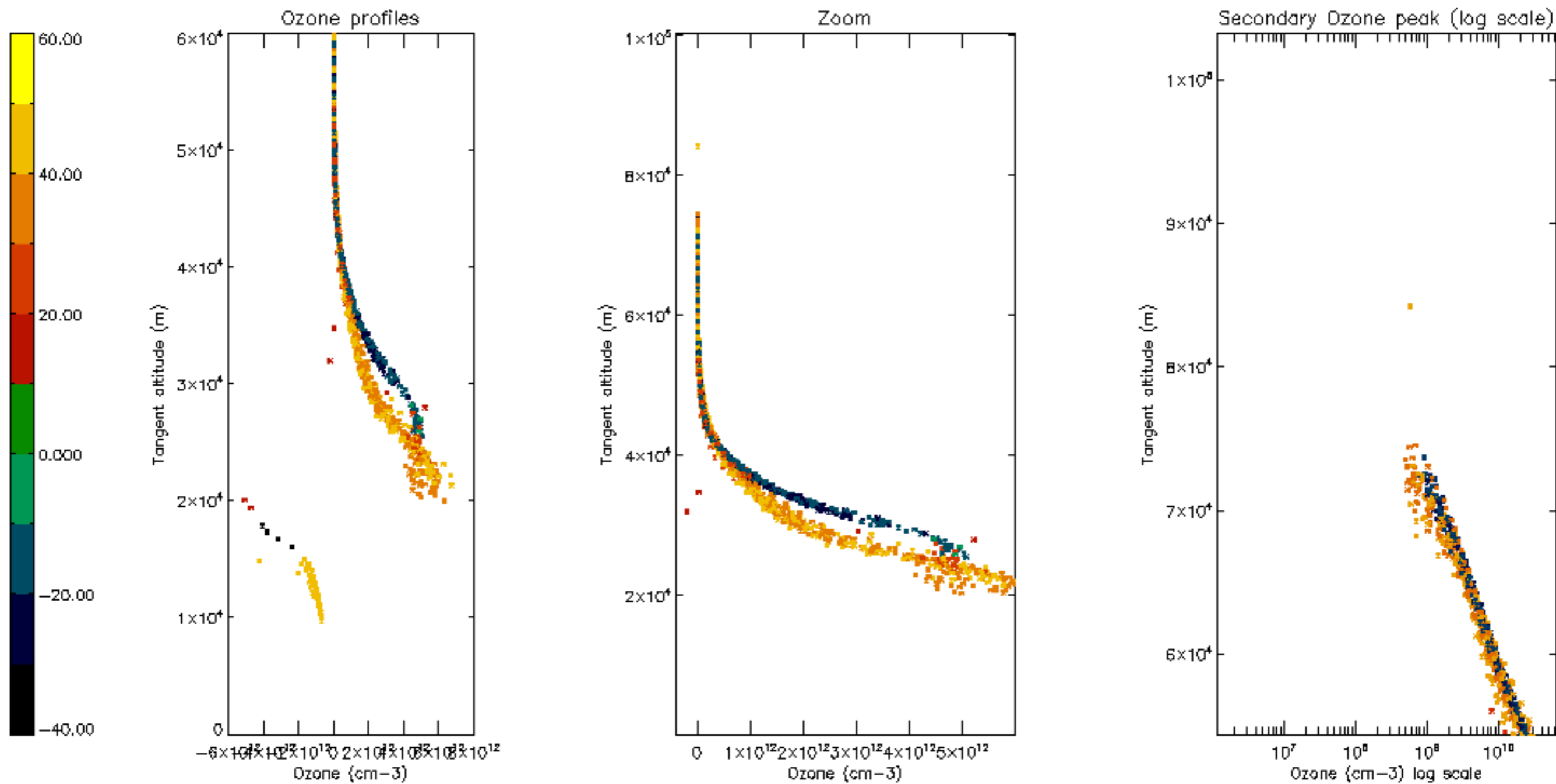


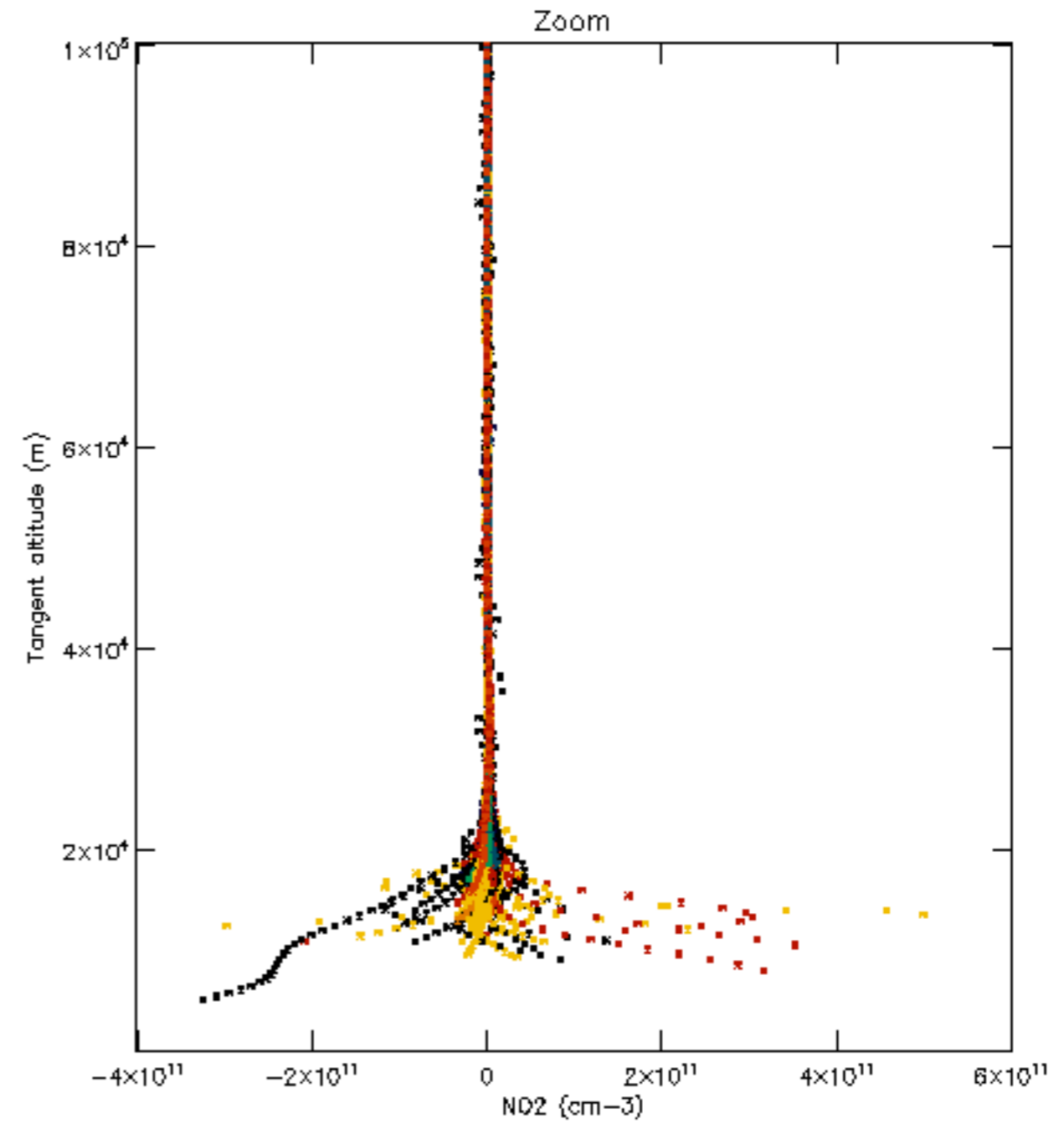
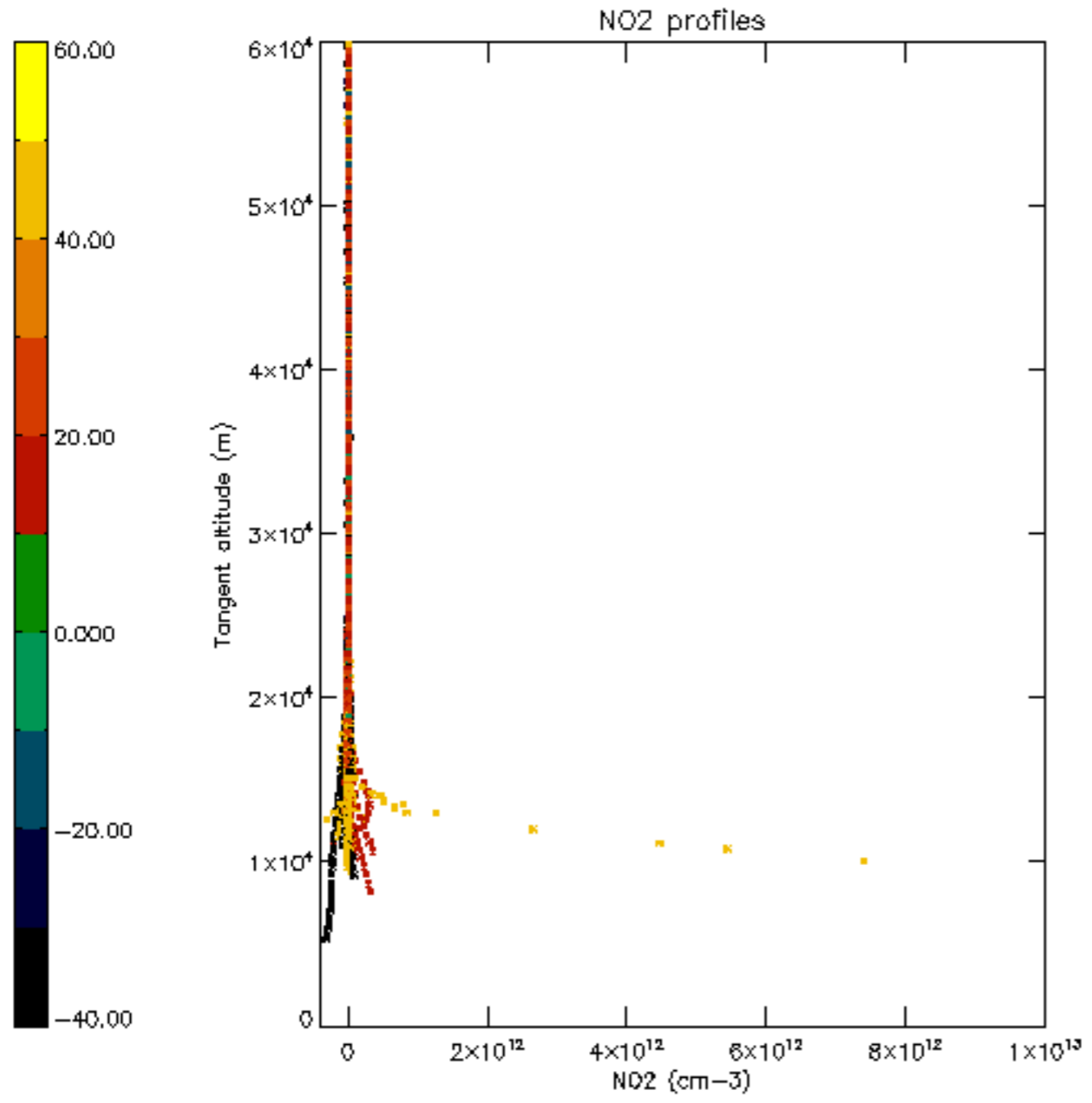


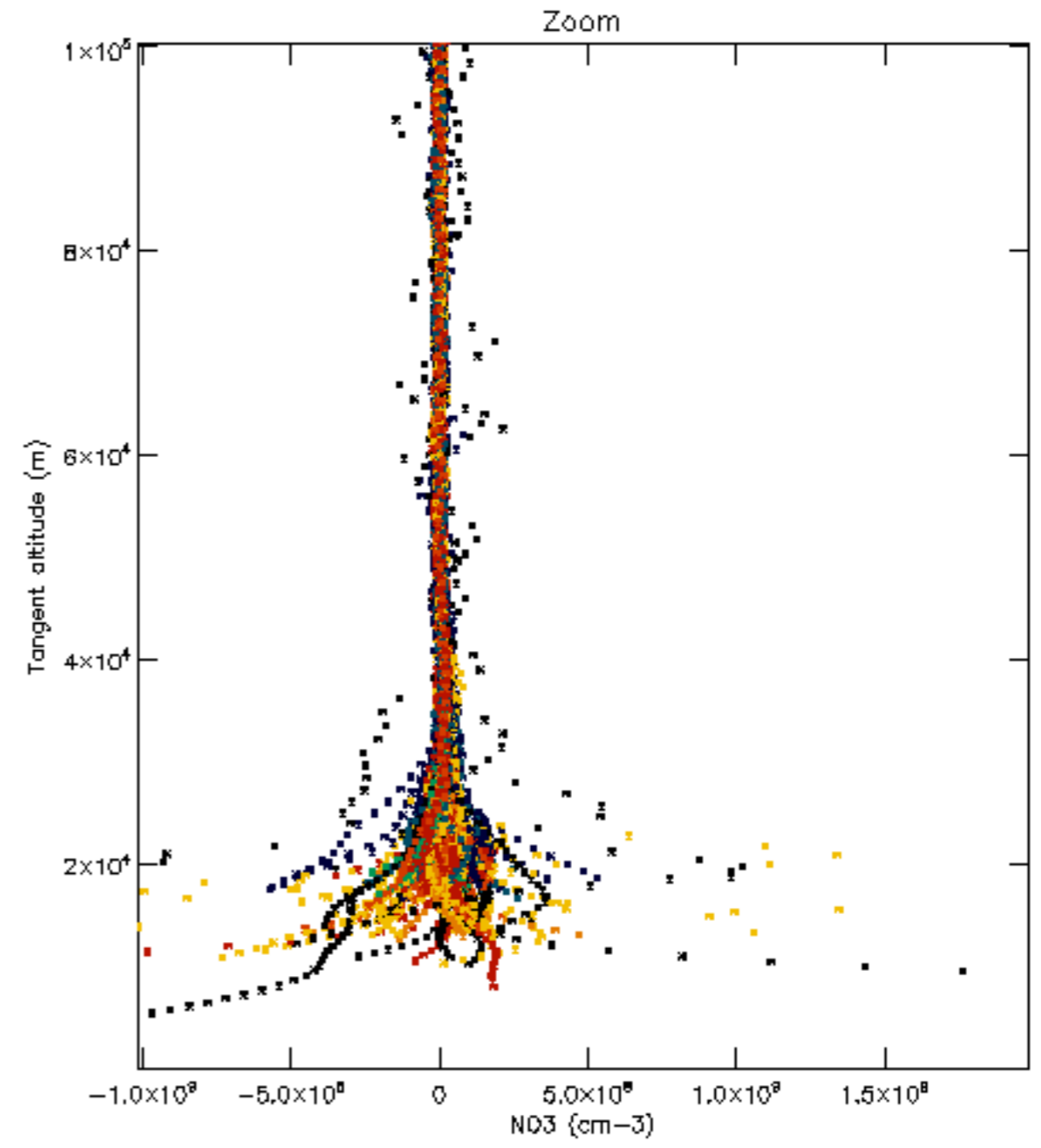
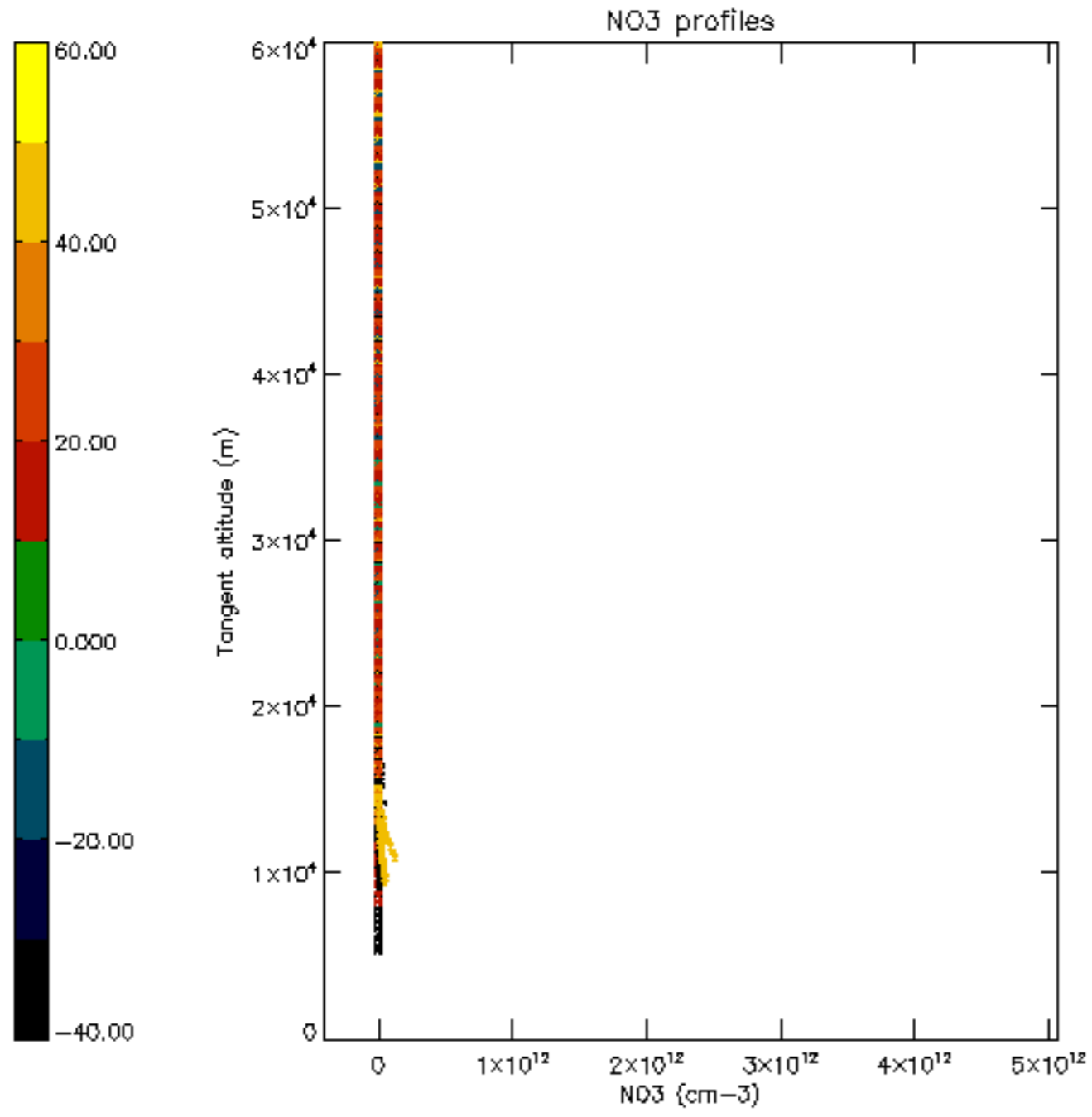


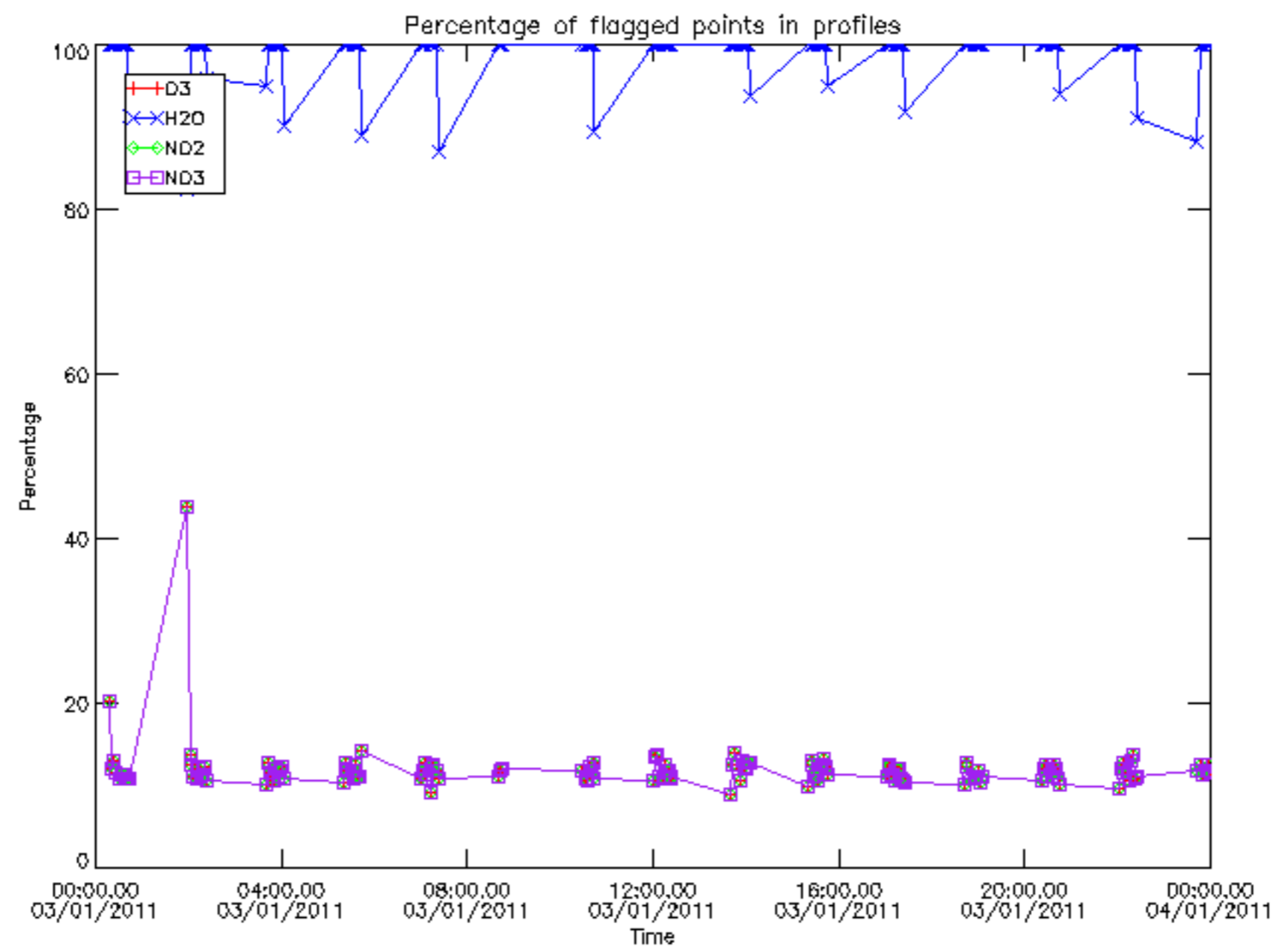




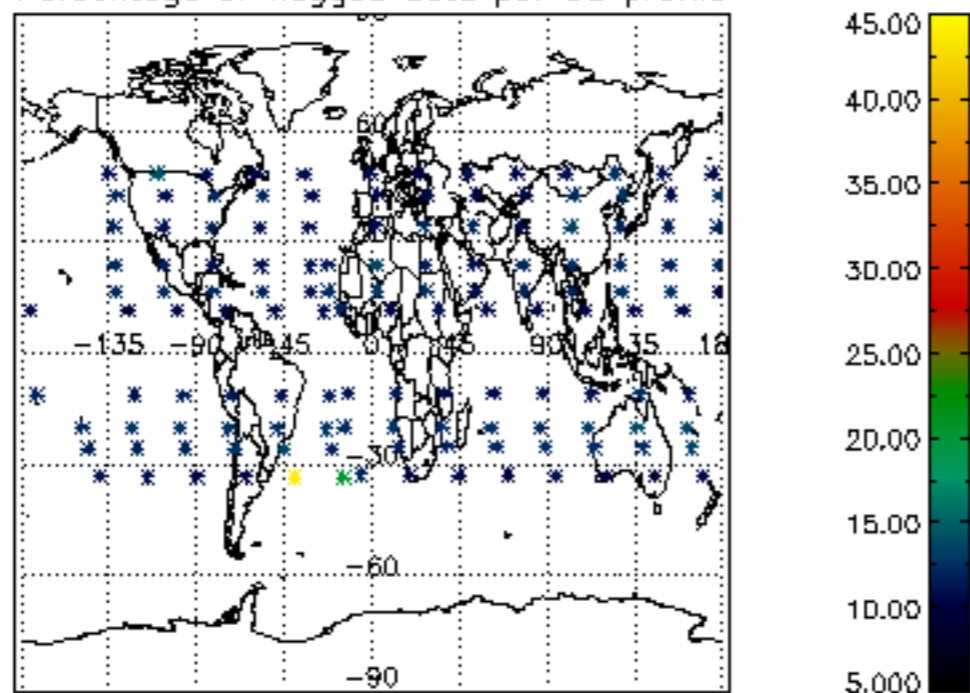




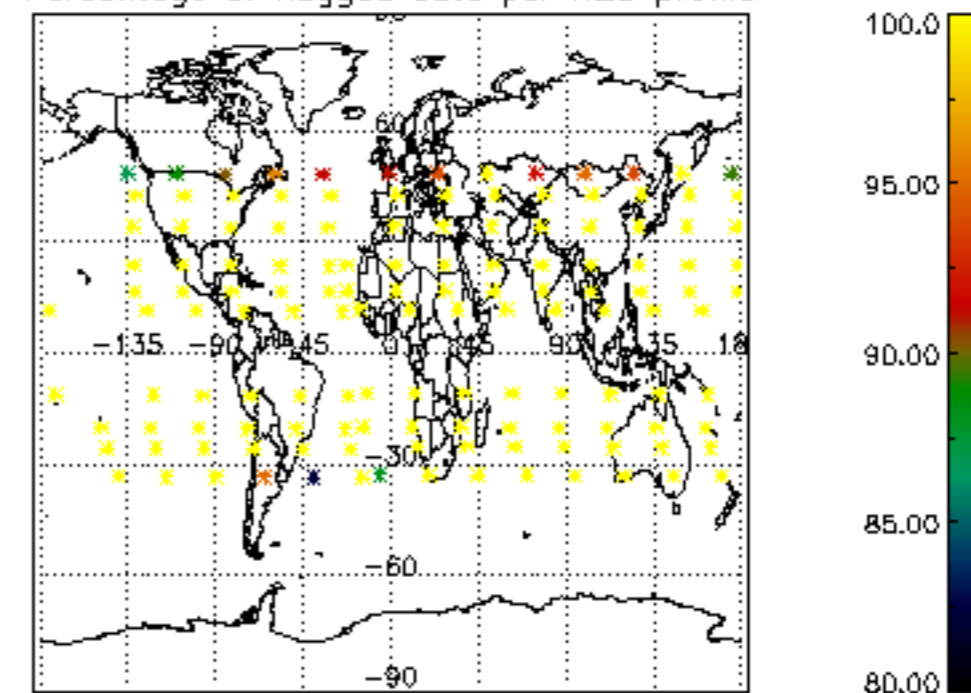




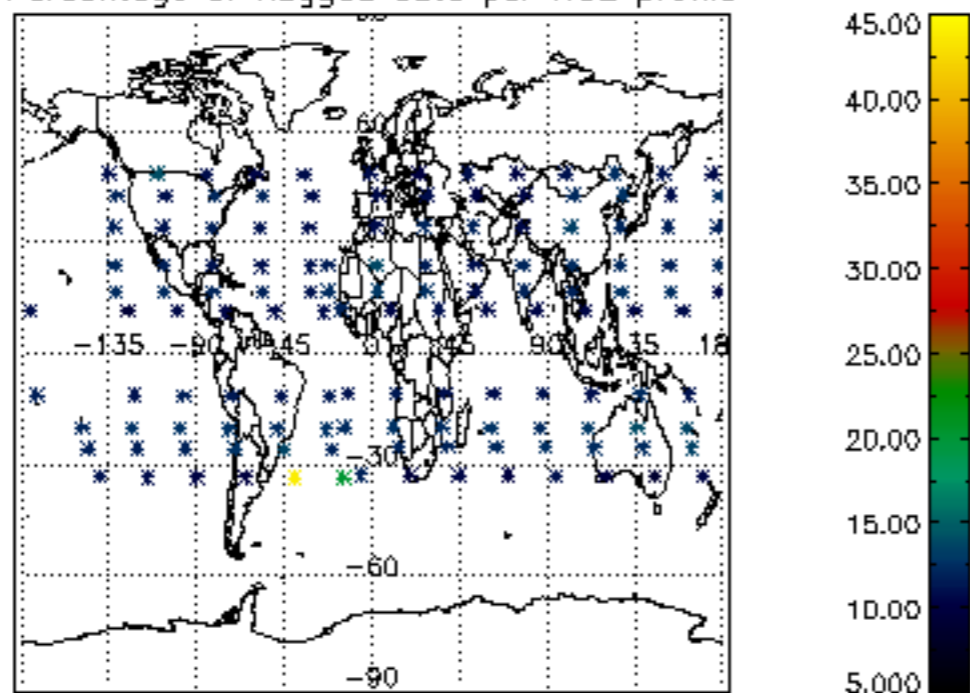
Percentage of flagged data per D3 profile



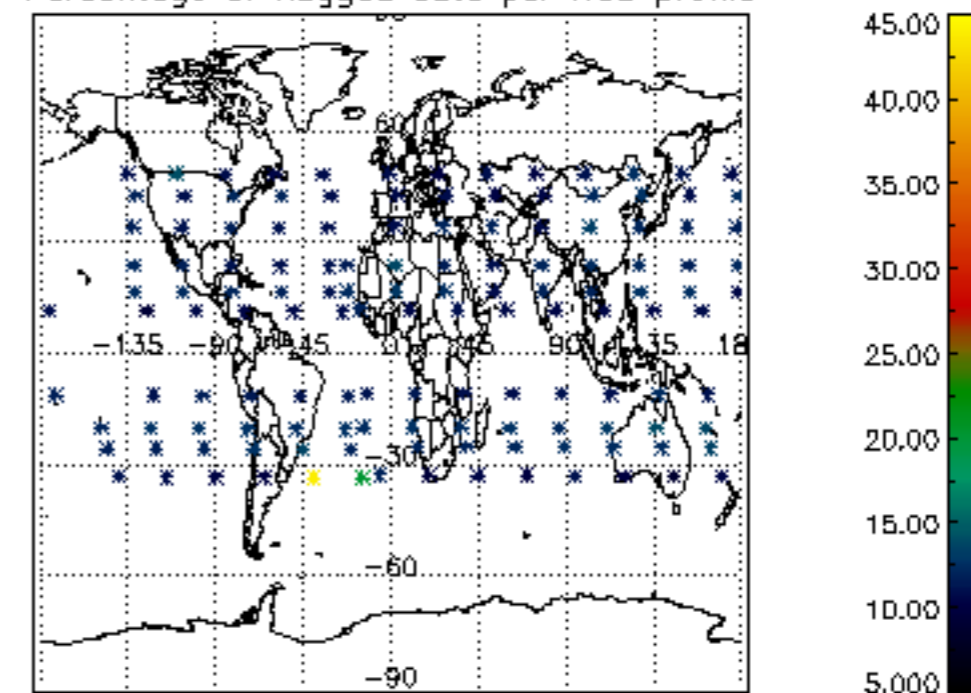
Percentage of flagged data per H2O profile

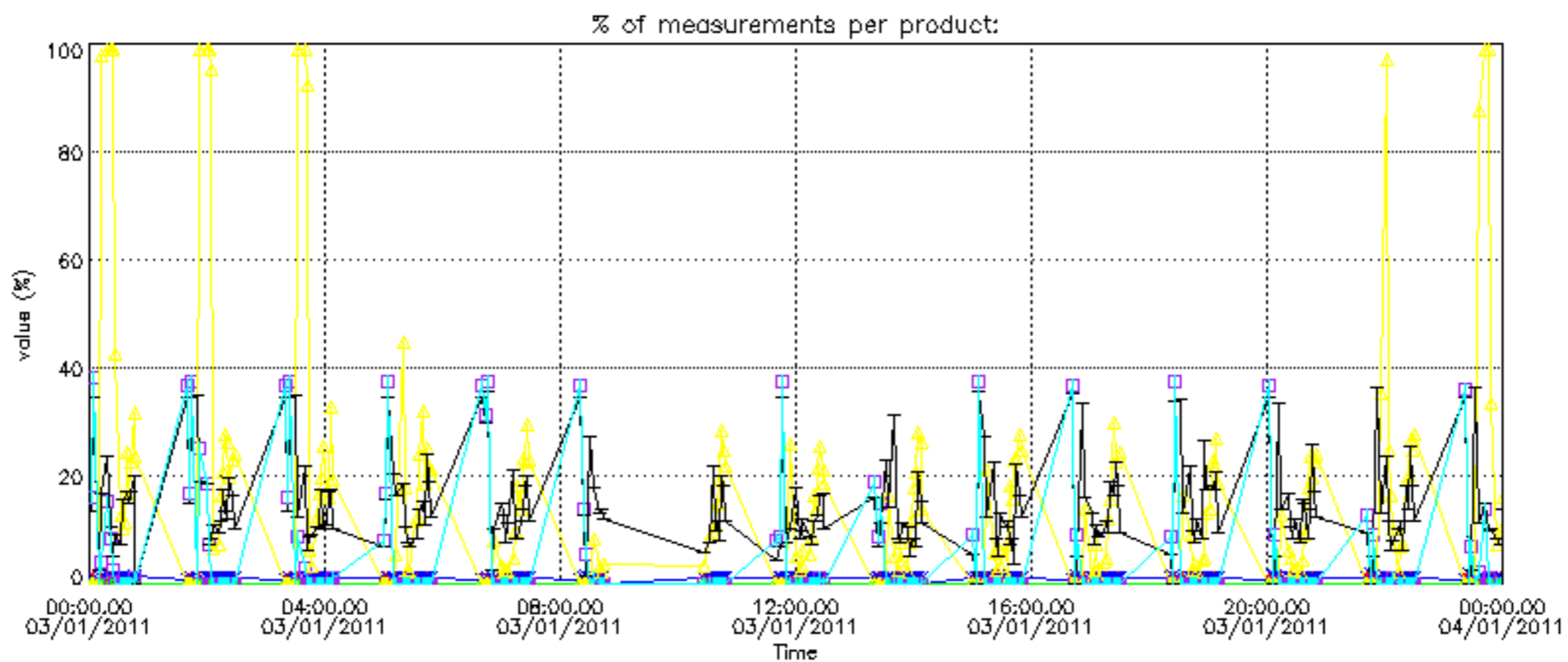


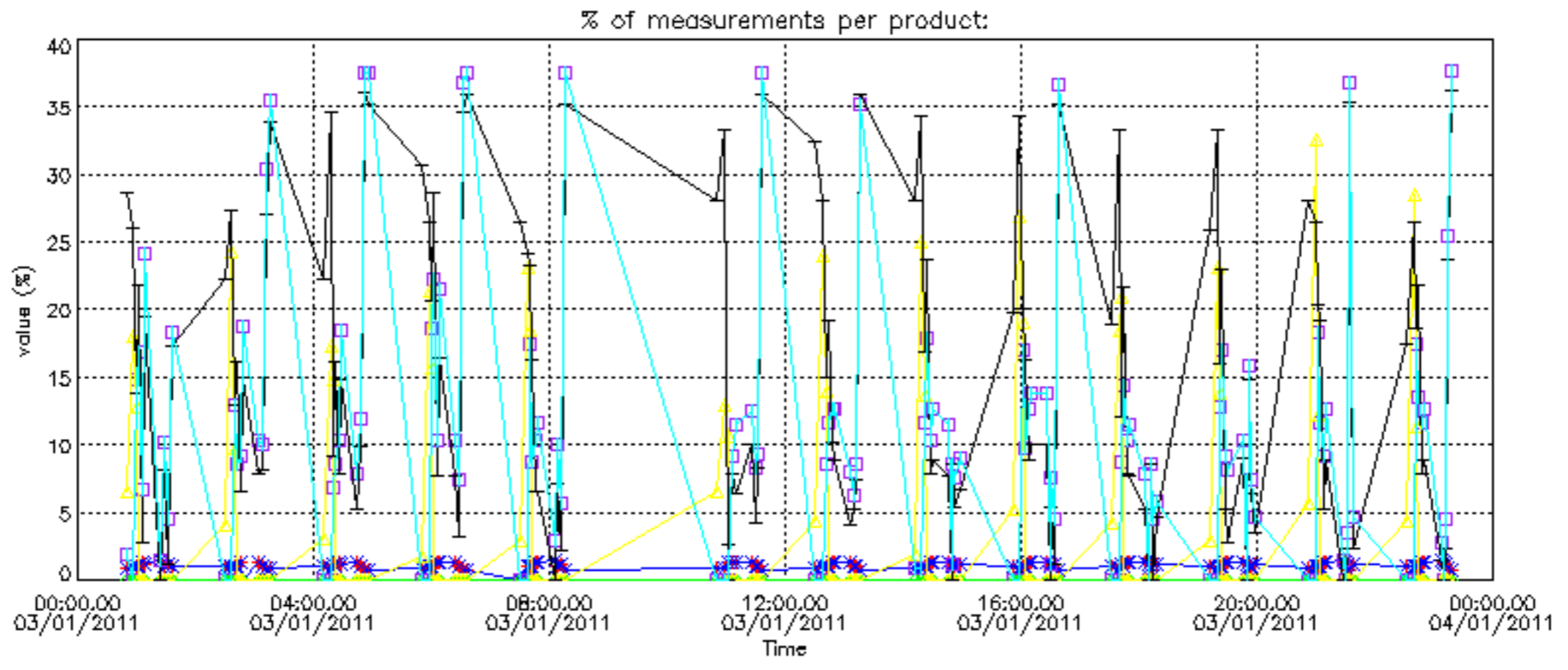
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

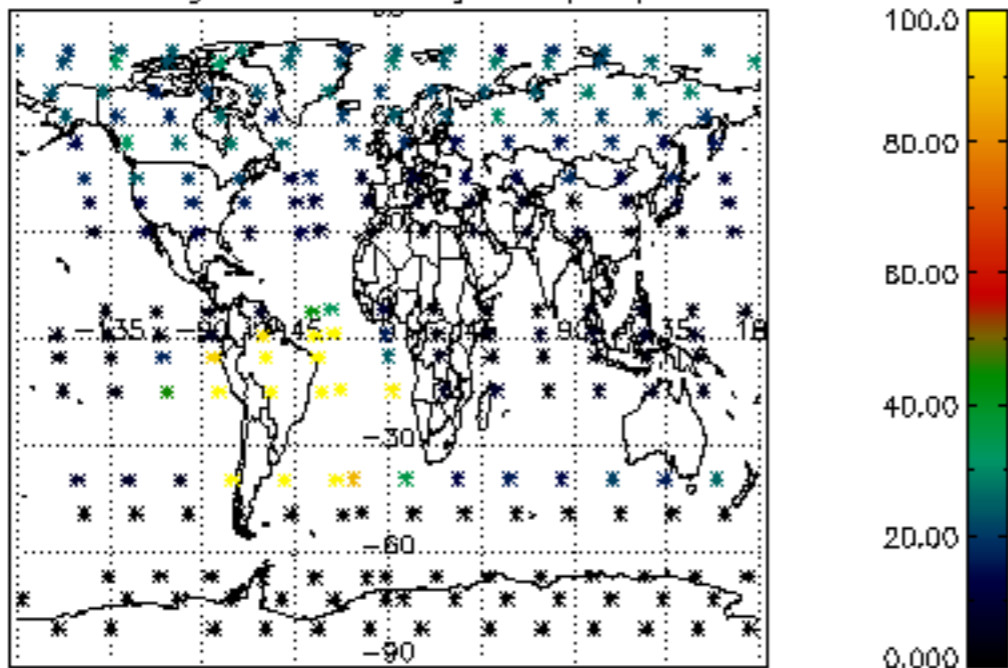




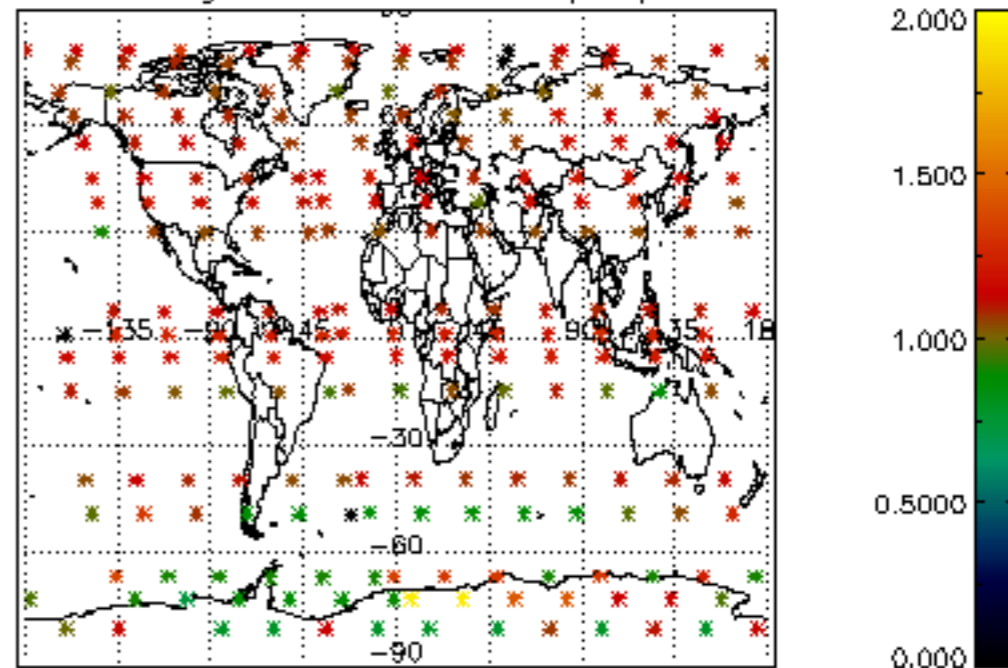




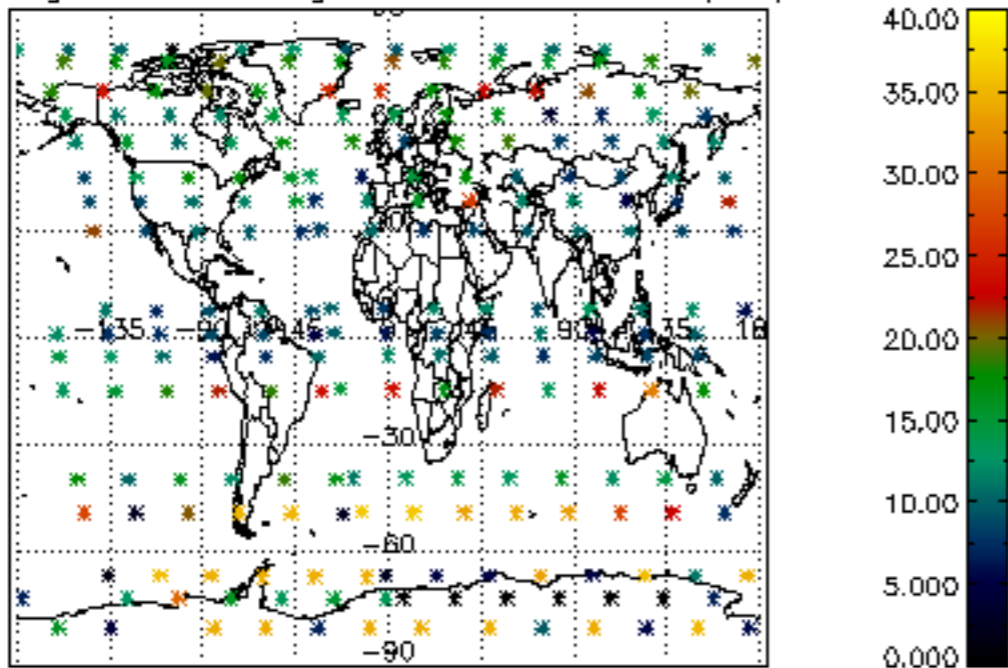
Percentage of cosmic ray hits per profile



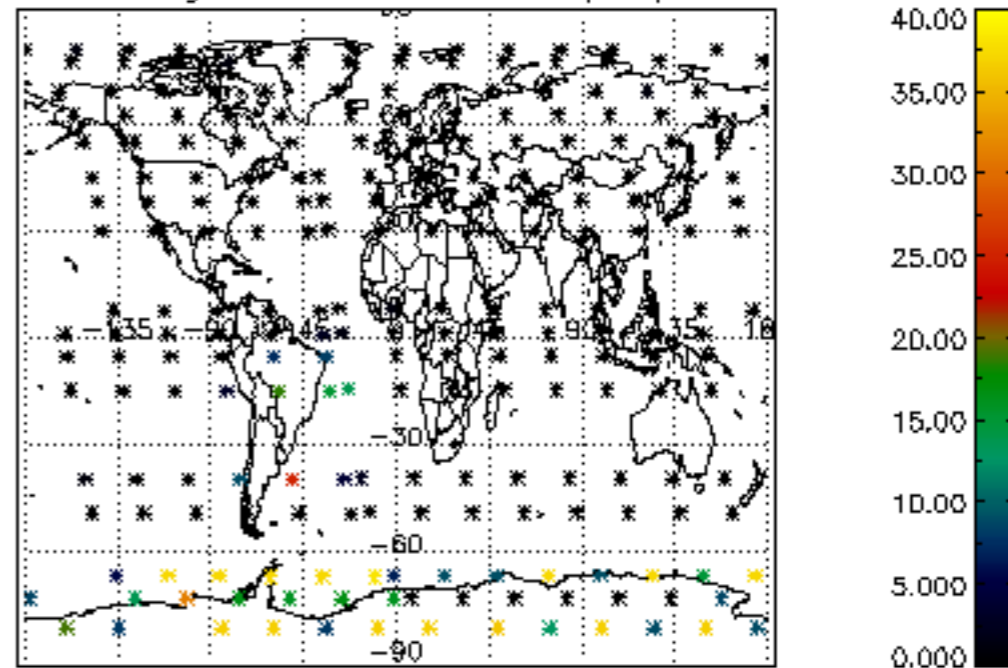
Percentage of datation errors per profile



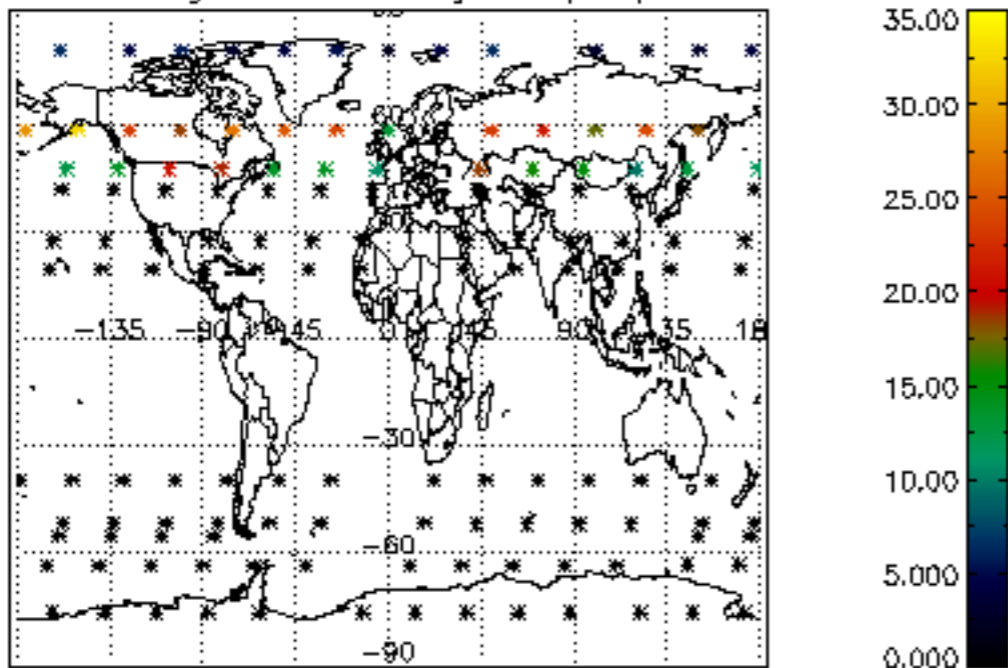
Percentage of star falling outside central band per profile



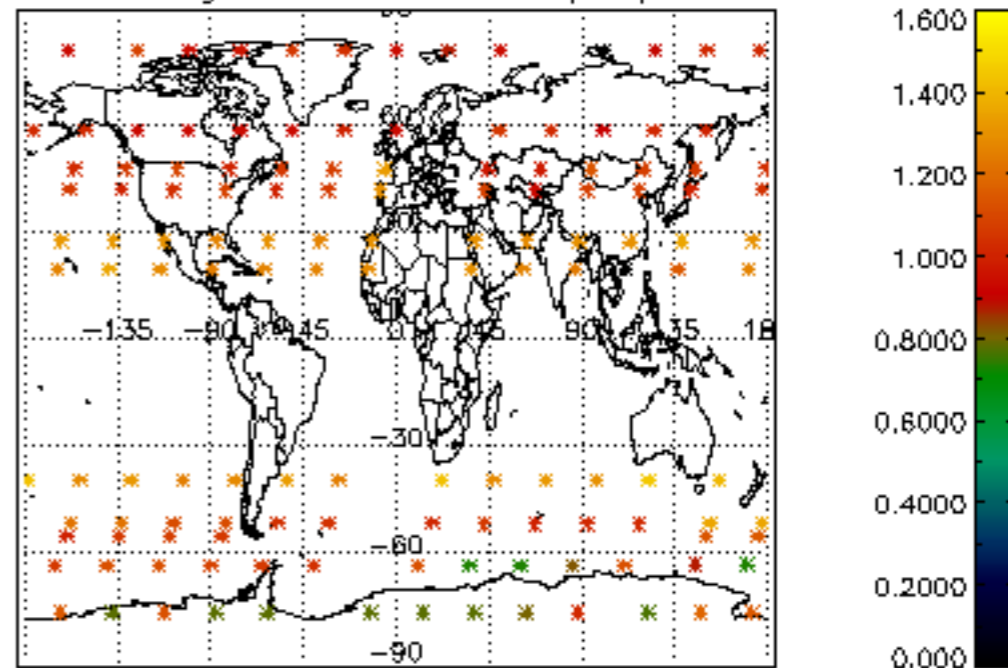
Percentage of saturation errors per profile



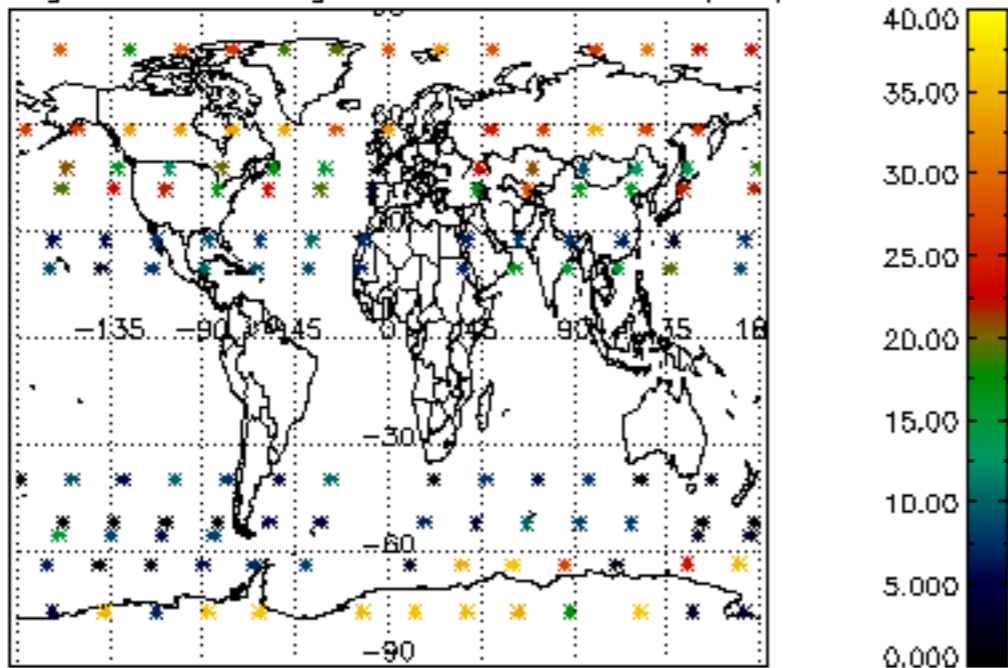
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

