

# 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 17:40:18
Data source version	GOMOS/6.01
Start time of products	12-09-2011 (12SEP2011 00:00:00)
Stop time of products	13-09-2011 (13SEP2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	25
Nb of prods with errors	0

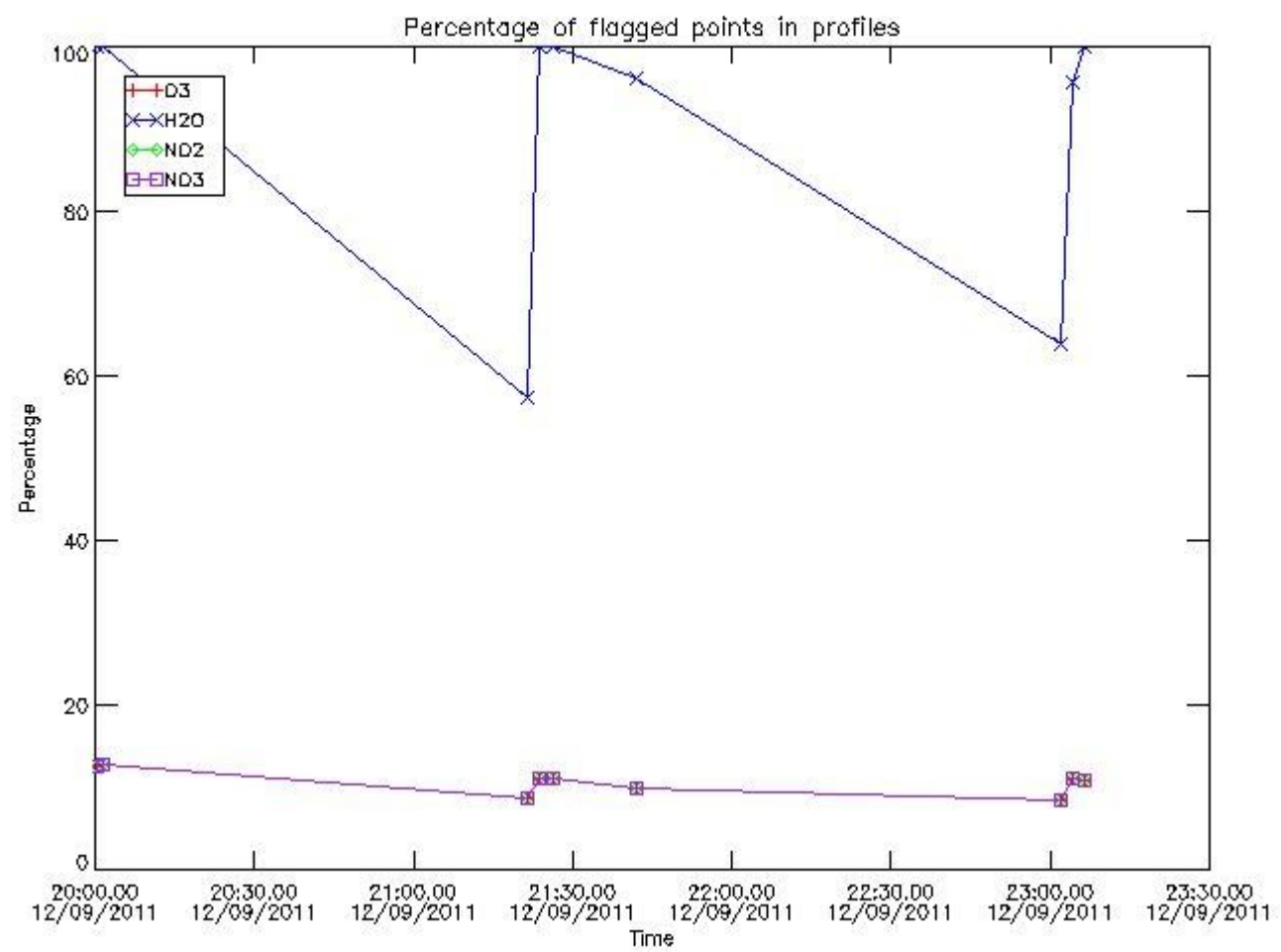
## 2. Summary of processed GOM\_NL\_\_2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110912_200016_000000413106_00287_49870_4358.N1	12-SEP-2011 20:00:16	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	49870	No
2	GOM_NL__2PRFIN20110912_200140_000000433106_00287_49870_4359.N1	12-SEP-2011 20:01:40	Dark	43.000	9	Alp Eri	0.45300	24000.	86	49870	No
3	GOM_NL__2PRFIN20110912_200726_000000483106_00287_49870_4360.N1	12-SEP-2011 20:07:26	Straylight	48.000	84	Alp Phe	2.3970	4500.0	96	49870	No
4	GOM_NL__2PRFIN20110912_203006_000000403106_00287_49870_4361.N1	12-SEP-2011 20:30:06	Bright	40.000	93	53Bet Peg	2.5200	3100.0	80	49870	No
5	GOM_NL__2PRFIN20110912_204024_000000423106_00287_49870_4362.N1	12-SEP-2011 20:40:24	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	49870	No
6	GOM_NL__2PRFIN20110912_204215_000000433106_00287_49870_4363.N1	12-SEP-2011 20:42:15	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	49870	No
7	GOM_NL__2PRFIN20110912_210415_000000433106_00287_49870_4364.N1	12-SEP-2011 21:04:15	Bright	43.000	24	66Alp Gem	1.5800	10200.	86	49870	No
8	GOM_NL__2PRFIN20110912_211243_000000473106_00287_49870_4365.N1	12-SEP-2011 21:12:43	Twilight	46.500	8	10Alp CMi	0.40000	6500.0	93	49870	No
9	GOM_NL__2PRFIN20110912_212132_000000593106_00287_49870_4366.N1	12-SEP-2011 21:21:32	Dark	59.000	1	9Alp CMa	-1.4400	11000.	118	49870	No
10	GOM_NL__2PRFIN20110912_212352_000000463106_00287_49870_4367.N1	12-SEP-2011 21:23:52	Dark	45.500	23	21Eps CMa	1.5020	26000.	91	49870	No
11	GOM_NL__2PRFIN20110912_212611_000000463106_00287_49870_4368.N1	12-SEP-2011 21:26:11	Dark	46.000	177	1Zet CMa	3.0220	26000.	92	49870	No
12	GOM_NL__2PRFIN20110912_214155_000000523106_00288_49871_4396.N1	12-SEP-2011 21:41:55	Dark	52.000	9	Alp Eri	0.45300	24000.	104	49871	No
13	GOM_NL__2PRFIN20110912_214740_000000473106_00288_49871_4397.N1	12-SEP-2011 21:47:40	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	49871	No
14	GOM_NL__2PRFIN20110912_220626_000000413106_00288_49871_4398.N1	12-SEP-2011 22:06:26	Bright	41.000	90	54Alp Peg	2.4870	11000.	82	49871	No
15	GOM_NL__2PRFIN20110912_221019_000000423106_00288_49871_4399.N1	12-SEP-2011 22:10:19	Bright	41.500	93	53Bet Peg	2.5200	3100.0	83	49871	No
16	GOM_NL__2PRFIN20110912_222038_000000403106_00288_49871_4400.N1	12-SEP-2011 22:20:38	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	49871	No
17	GOM_NL__2PRFIN20110912_222228_000000453106_00288_49871_4401.N1	12-SEP-2011 22:22:28	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	49871	No
18	GOM_NL__2PRFIN20110912_224429_000000613106_00288_49871_4402.N1	12-SEP-2011 22:44:29	Bright	61.000	24	66Alp Gem	1.5800	10200.	122	49871	No
19	GOM_NL__2PRFIN20110912_225257_000000553106_00288_49871_4403.N1	12-SEP-2011 22:52:57	Twilight	55.000	8	10Alp CMi	0.40000	6500.0	110	49871	No
20	GOM_NL__2PRFIN20110912_230147_000000603106_00288_49871_4404.N1	12-SEP-2011 23:01:47	Dark	60.000	1	9Alp CMa	-1.4400	11000.	120	49871	No
21	GOM_NL__2PRFIN20110912_230407_000000463106_00288_49871_4405.N1	12-SEP-2011 23:04:07	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	49871	No
22	GOM_NL__2PRFIN20110912_230626_000000483106_00288_49871_4406.N1	12-SEP-2011 23:06:26	Dark	47.500	177	1Zet CMa	3.0220	26000.	95	49871	No
23	GOM_NL__2PRFIN20110912_232754_000000453106_00289_49872_4410.N1	12-SEP-2011 23:27:54	Straylight	45.000	84	Alp Phe	2.3970	4500.0	90	49872	No
24	GOM_NL__2PRFIN20110912_234639_000000403106_00289_49872_4411.N1	12-SEP-2011 23:46:39	Bright	40.000	90	54Alp Peg	2.4870	11000.	80	49872	No
25	GOM_NL__2PRFIN20110912_235033_000000433106_00289_49872_4412.N1	12-SEP-2011 23:50:33	Bright	42.500	93	53Bet Peg	2.5200	3100.0	85	49872	No

## 3. Quality information per product

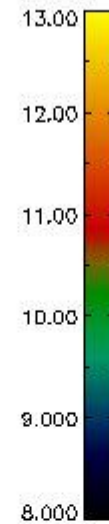
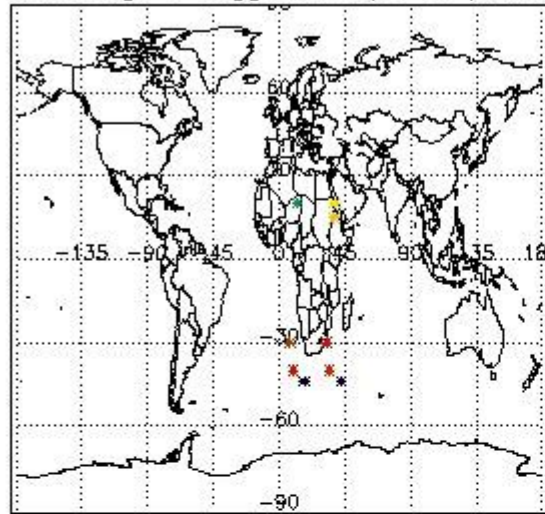
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

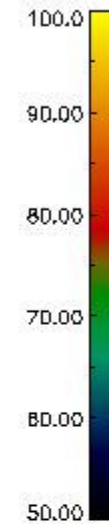
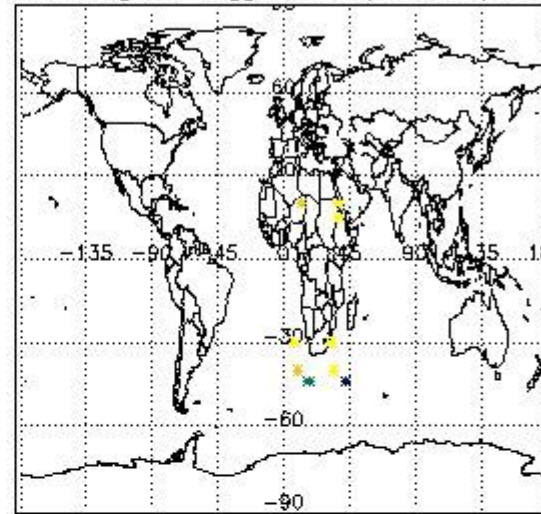


*3.2 Plot quality information per product (world map)*

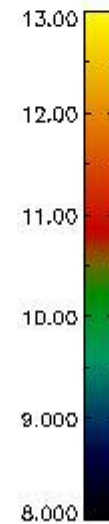
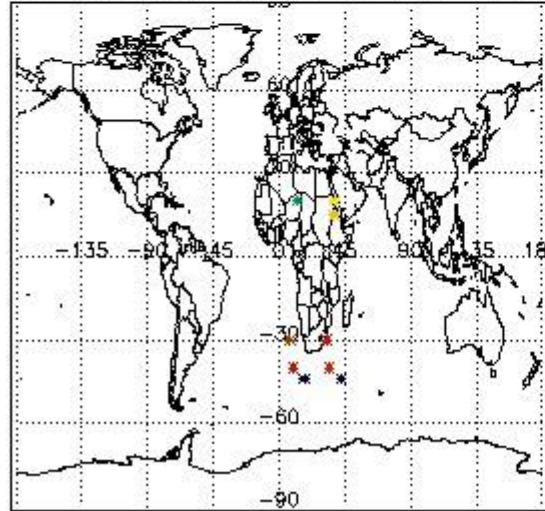
Percentage of flagged data per O3 profile



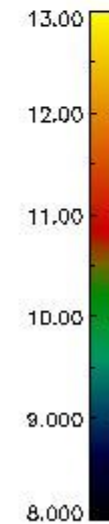
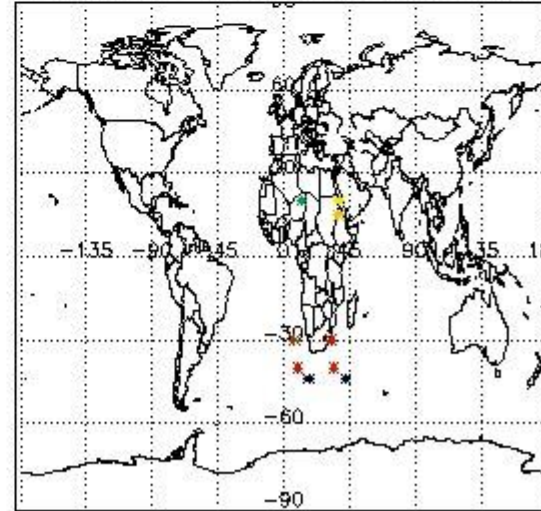
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

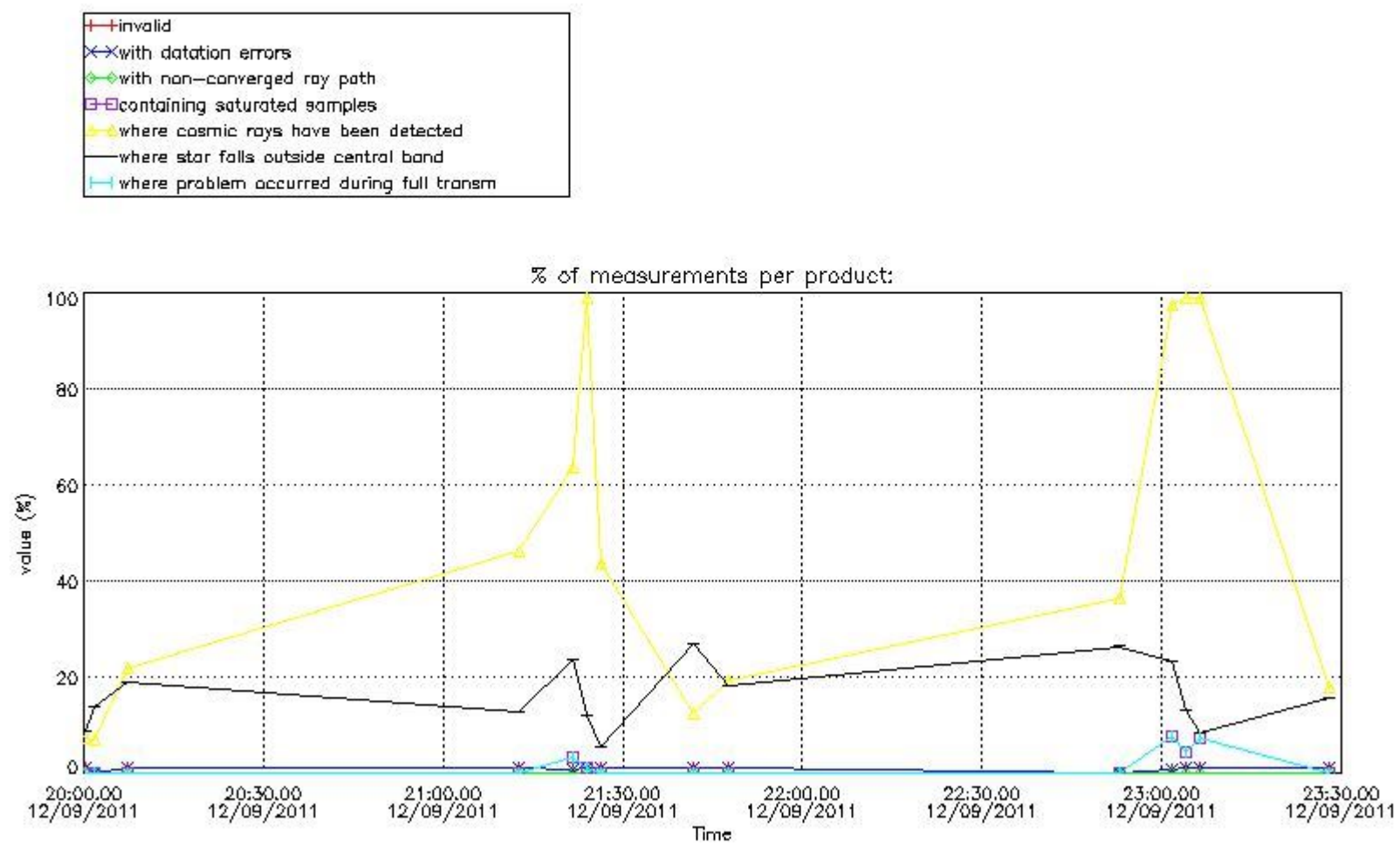


#### 4. Level 1 quality information per product

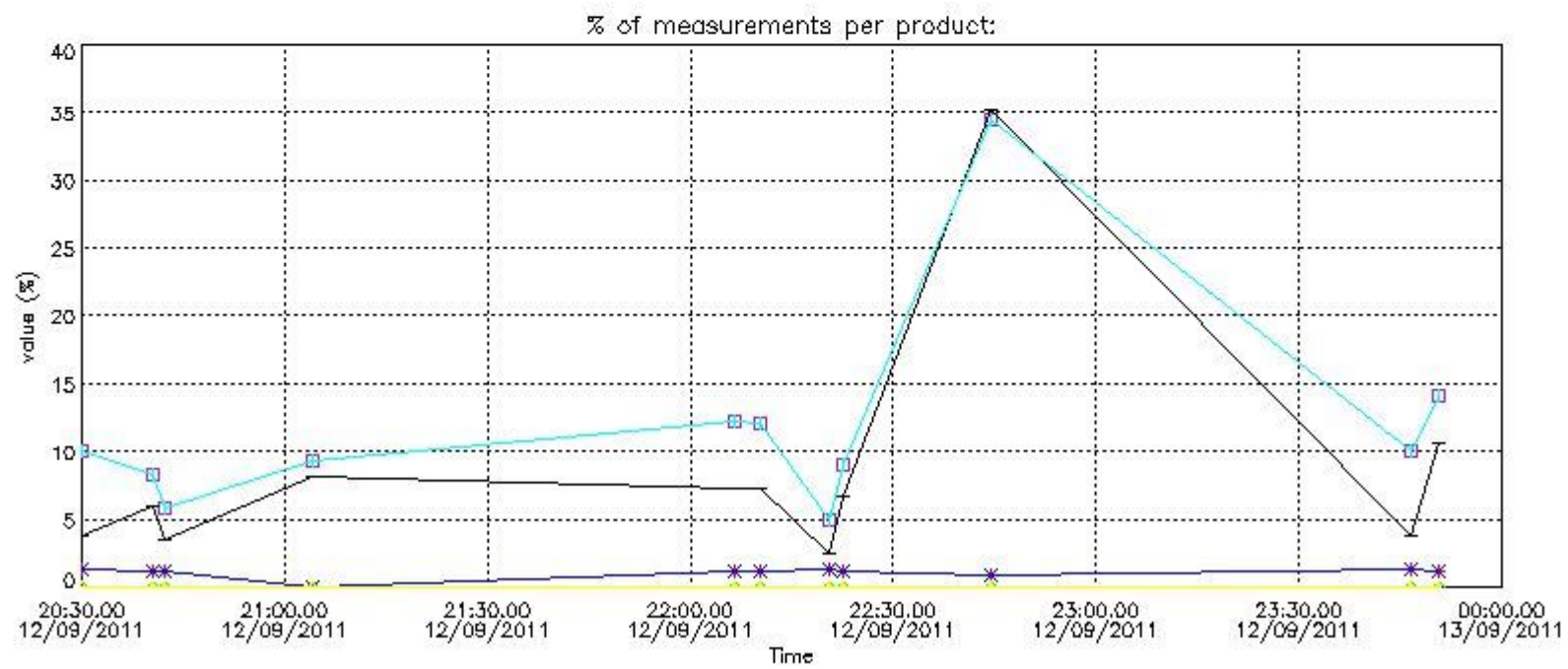
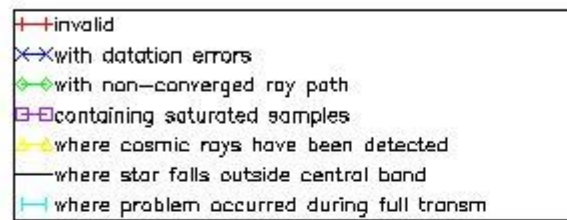
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



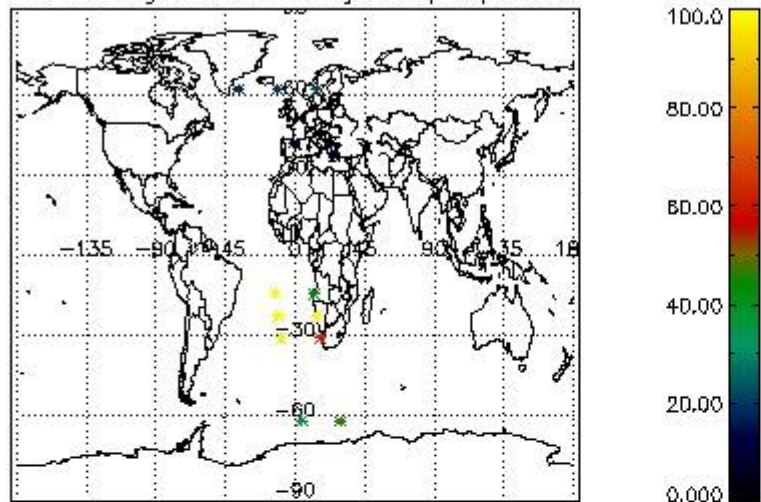
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



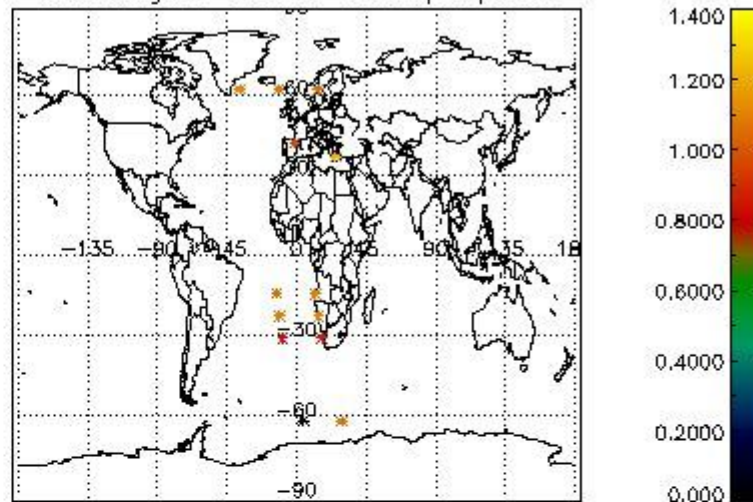
4.2 Plot quality information per product coming from level 1b processing (world map)

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

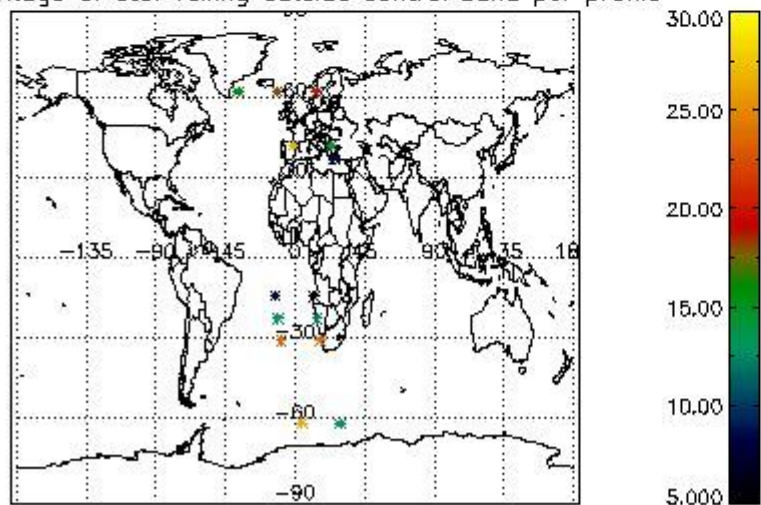
Percentage of cosmic ray hits per profile



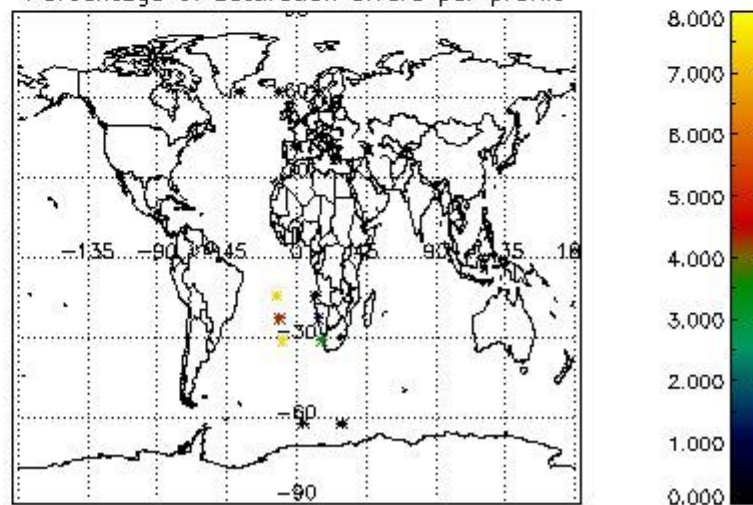
Percentage of datation errors per profile



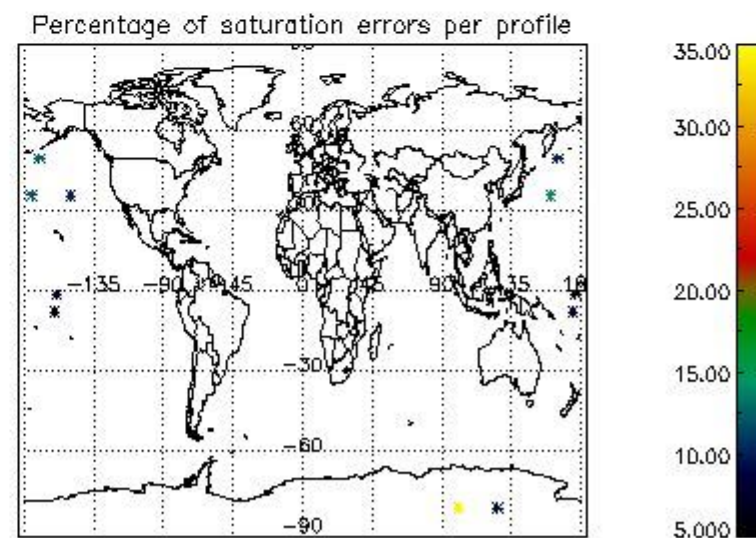
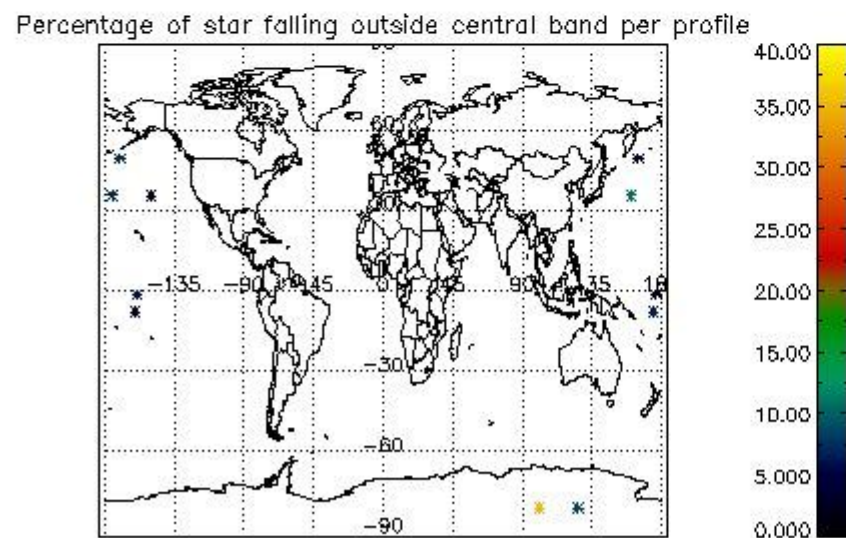
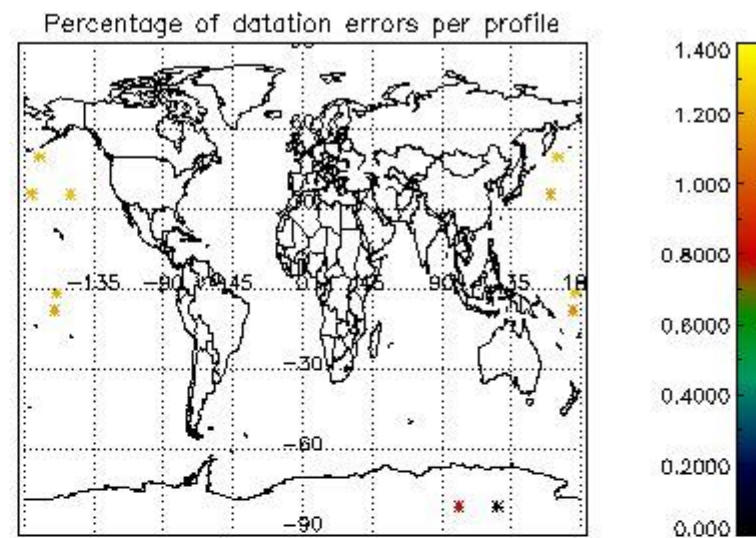
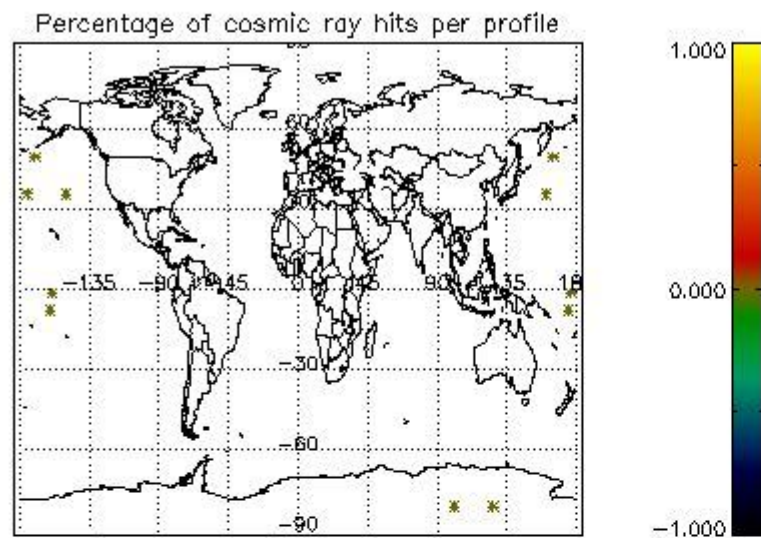
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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.

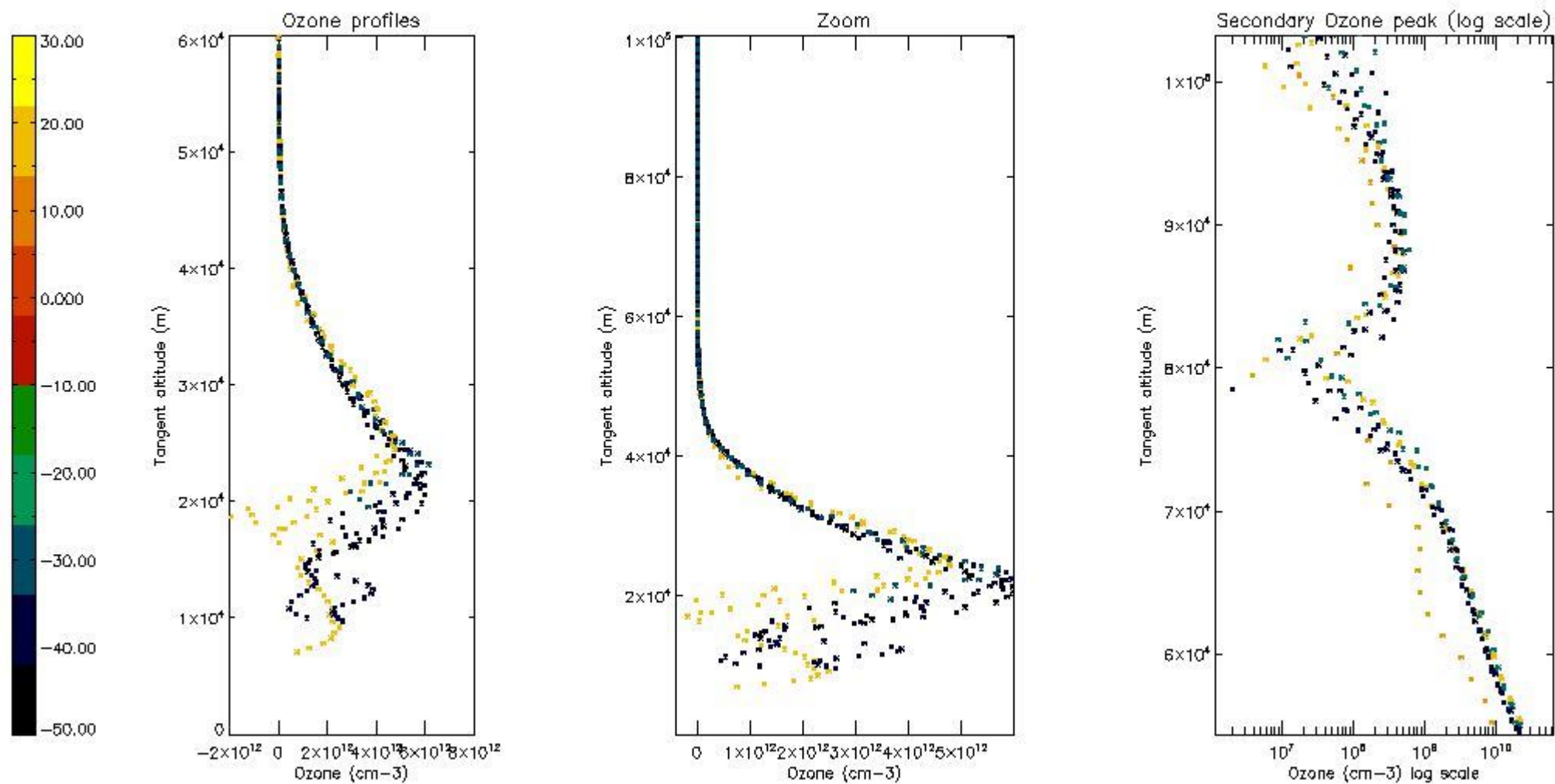
Criteria	% of total production
All STD	39
STD < 20	26



STD < 10	23
STD < 5	18

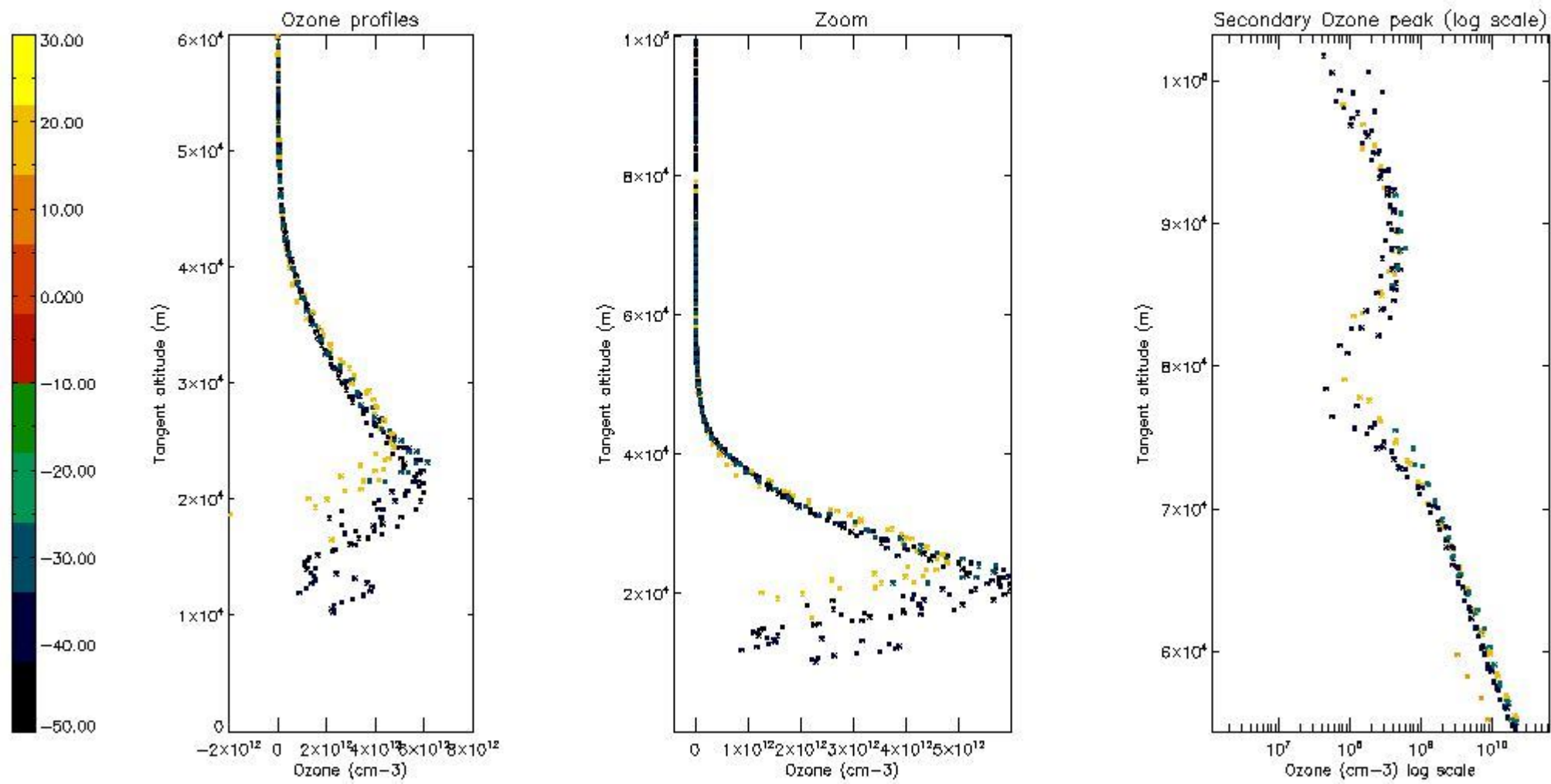
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



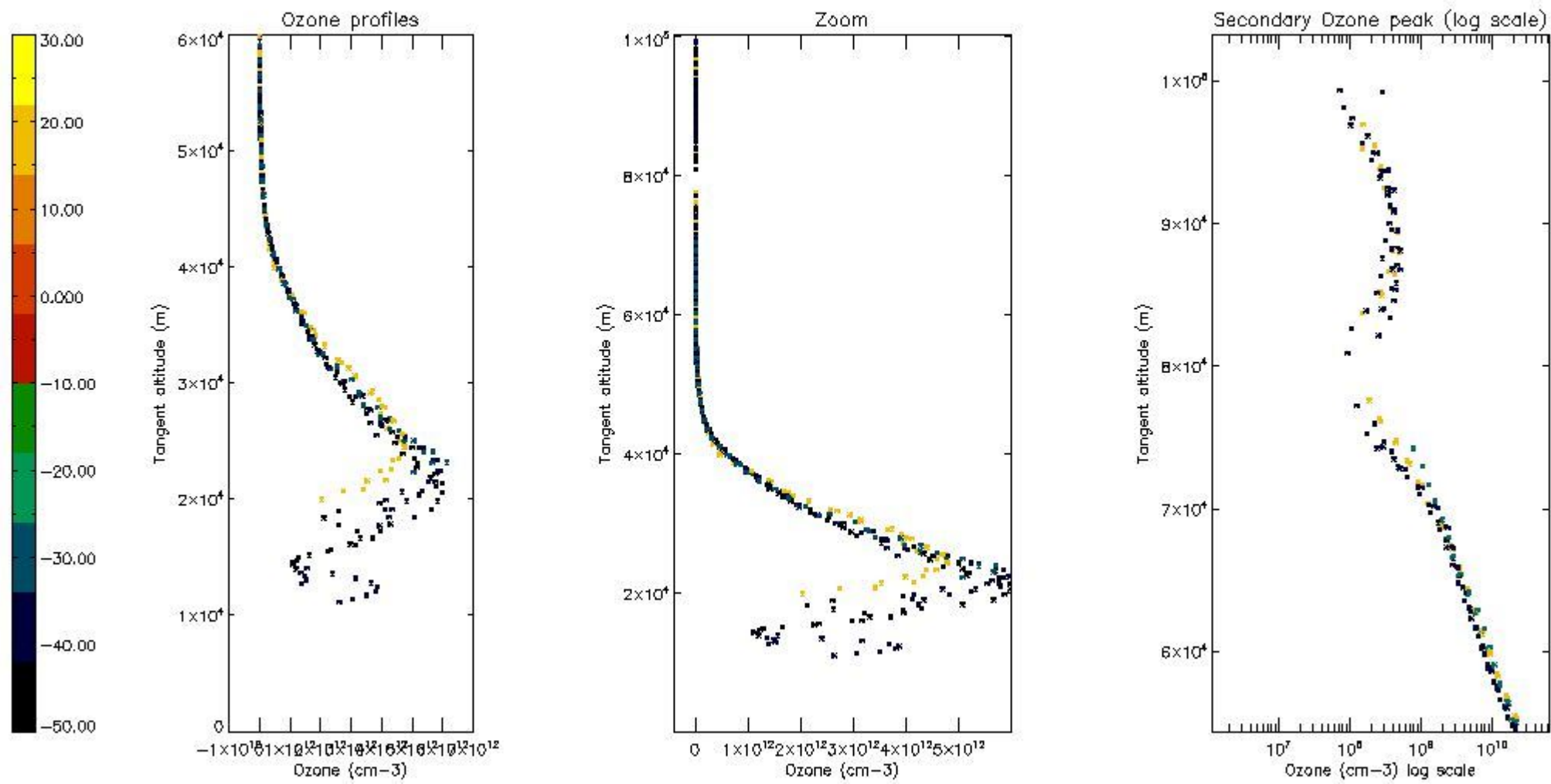
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



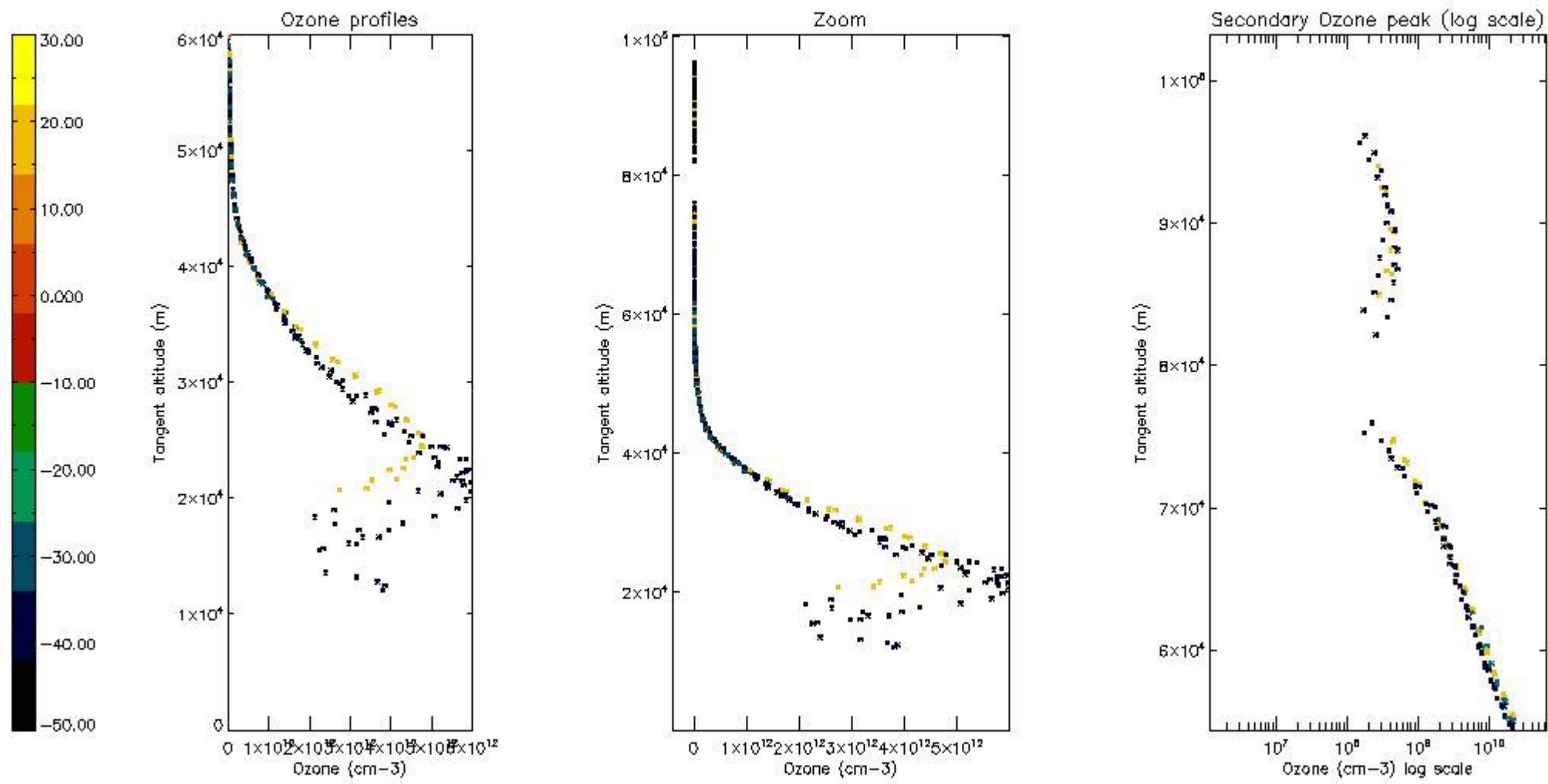
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



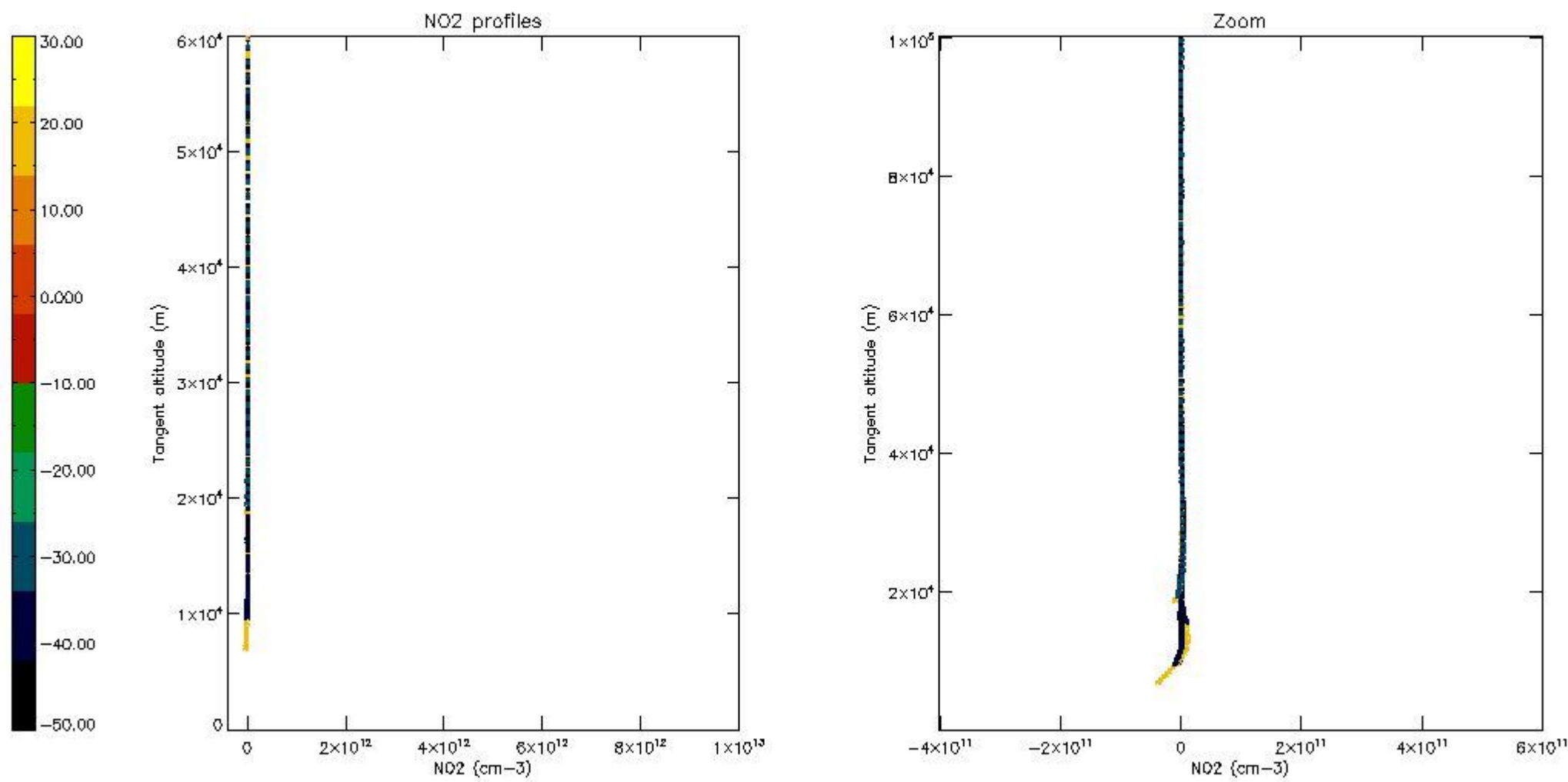
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



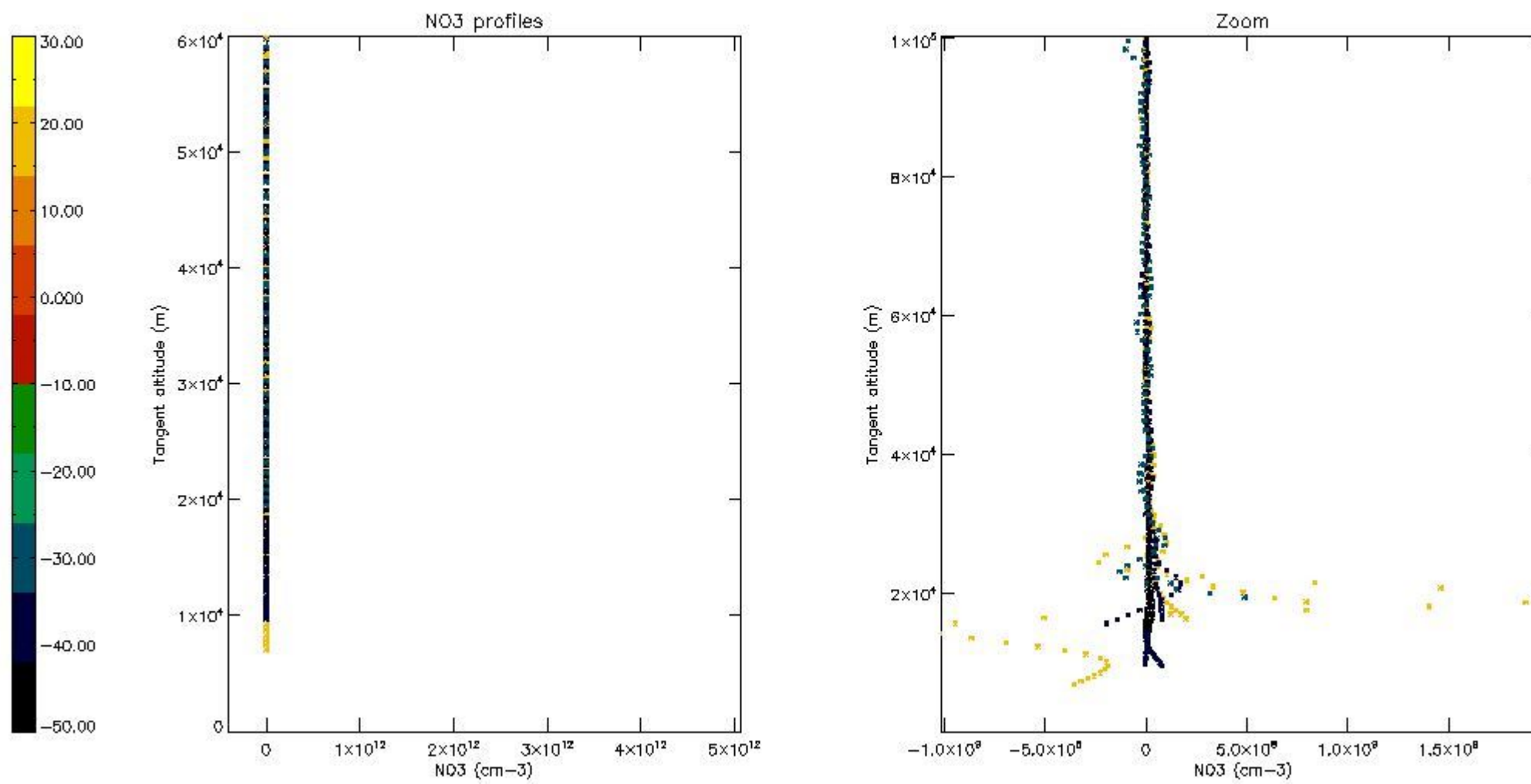
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

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	12-SEP-2011 20:00:16
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	12-SEP-2011 20:00:16
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	12-SEP-2011 20:00:16

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

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

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

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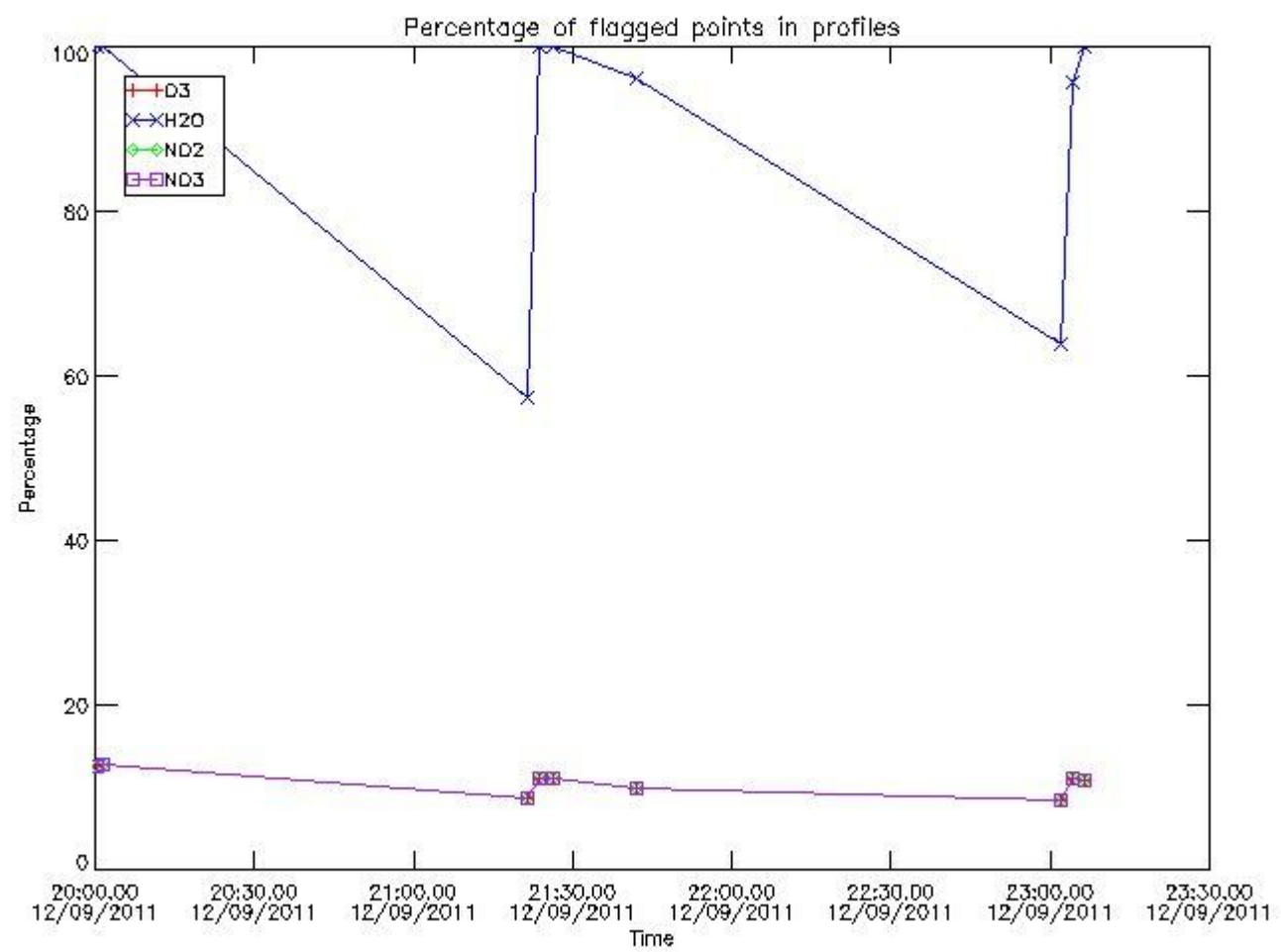
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110912_200016_000000413106_00287_49870_4358.N1	12-SEP-2011 20:00:16	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	49870	No
2	GOM_NL__2PRFIN20110912_200140_000000433106_00287_49870_4359.N1	12-SEP-2011 20:01:40	Dark	43.000	9	Alp Eri	0.45300	24000.	86	49870	No
3	GOM_NL__2PRFIN20110912_200726_000000483106_00287_49870_4360.N1	12-SEP-2011 20:07:26	Straylight	48.000	84	Alp Phe	2.3970	4500.0	96	49870	No
4	GOM_NL__2PRFIN20110912_203006_000000403106_00287_49870_4361.N1	12-SEP-2011 20:30:06	Bright	40.000	93	53Bet Peg	2.5200	3100.0	80	49870	No
5	GOM_NL__2PRFIN20110912_204024_000000423106_00287_49870_4362.N1	12-SEP-2011 20:40:24	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	49870	No
6	GOM_NL__2PRFIN20110912_204215_000000433106_00287_49870_4363.N1	12-SEP-2011 20:42:15	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	49870	No
7	GOM_NL__2PRFIN20110912_210415_000000433106_00287_49870_4364.N1	12-SEP-2011 21:04:15	Bright	43.000	24	66Alp Gem	1.5800	10200.	86	49870	No
8	GOM_NL__2PRFIN20110912_211243_000000473106_00287_49870_4365.N1	12-SEP-2011 21:12:43	Twilight	46.500	8	10Alp CMi	0.40000	6500.0	93	49870	No
9	GOM_NL__2PRFIN20110912_212132_000000593106_00287_49870_4366.N1	12-SEP-2011 21:21:32	Dark	59.000	1	9Alp CMa	-1.4400	11000.	118	49870	No
10	GOM_NL__2PRFIN20110912_212352_000000463106_00287_49870_4367.N1	12-SEP-2011 21:23:52	Dark	45.500	23	21Eps CMa	1.5020	26000.	91	49870	No
11	GOM_NL__2PRFIN20110912_212611_000000463106_00287_49870_4368.N1	12-SEP-2011 21:26:11	Dark	46.000	177	1Zet CMa	3.0220	26000.	92	49870	No
12	GOM_NL__2PRFIN20110912_214155_000000523106_00288_49871_4396.N1	12-SEP-2011 21:41:55	Dark	52.000	9	Alp Eri	0.45300	24000.	104	49871	No
13	GOM_NL__2PRFIN20110912_214740_000000473106_00288_49871_4397.N1	12-SEP-2011 21:47:40	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	49871	No
14	GOM_NL__2PRFIN20110912_220626_000000413106_00288_49871_4398.N1	12-SEP-2011 22:06:26	Bright	41.000	90	54Alp Peg	2.4870	11000.	82	49871	No
15	GOM_NL__2PRFIN20110912_221019_000000423106_00288_49871_4399.N1	12-SEP-2011 22:10:19	Bright	41.500	93	53Bet Peg	2.5200	3100.0	83	49871	No
16	GOM_NL__2PRFIN20110912_222038_000000403106_00288_49871_4400.N1	12-SEP-2011 22:20:38	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	49871	No
17	GOM_NL__2PRFIN20110912_222228_000000453106_00288_49871_4401.N1	12-SEP-2011 22:22:28	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	49871	No
18	GOM_NL__2PRFIN20110912_224429_000000613106_00288_49871_4402.N1	12-SEP-2011 22:44:29	Bright	61.000	24	66Alp Gem	1.5800	10200.	122	49871	No
19	GOM_NL__2PRFIN20110912_225257_000000553106_00288_49871_4403.N1	12-SEP-2011 22:52:57	Twilight	55.000	8	10Alp CMi	0.40000	6500.0	110	49871	No
20	GOM_NL__2PRFIN20110912_230147_000000603106_00288_49871_4404.N1	12-SEP-2011 23:01:47	Dark	60.000	1	9Alp CMa	-1.4400	11000.	120	49871	No
21	GOM_NL__2PRFIN20110912_230407_000000463106_00288_49871_4405.N1	12-SEP-2011 23:04:07	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	49871	No
22	GOM_NL__2PRFIN20110912_230626_000000483106_00288_49871_4406.N1	12-SEP-2011 23:06:26	Dark	47.500	177	1Zet CMa	3.0220	26000.	95	49871	No
23	GOM_NL__2PRFIN20110912_232754_000000453106_00289_49872_4410.N1	12-SEP-2011 23:27:54	Straylight	45.000	84	Alp Phe	2.3970	4500.0	90	49872	No
24	GOM_NL__2PRFIN20110912_234639_000000403106_00289_49872_4411.N1	12-SEP-2011 23:46:39	Bright	40.000	90	54Alp Peg	2.4870	11000.	80	49872	No
25	GOM_NL__2PRFIN20110912_235033_000000433106_00289_49872_4412.N1	12-SEP-2011 23:50:33	Bright	42.500	93	53Bet Peg	2.5200	3100.0	85	49872	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.

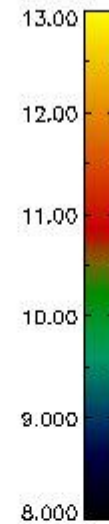
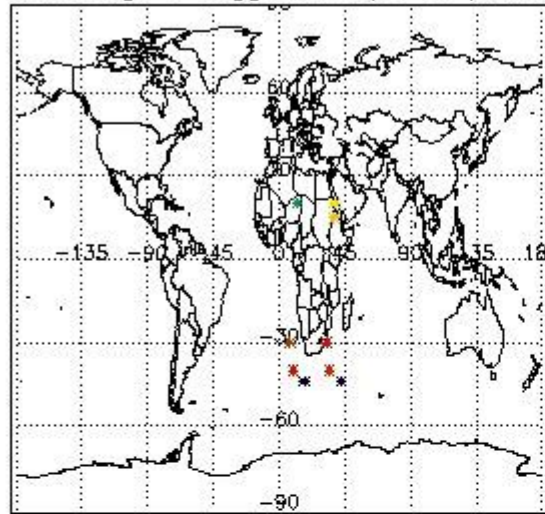
### 3.1 Plot quality information per product (time dependant)



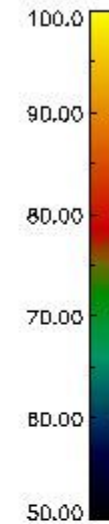
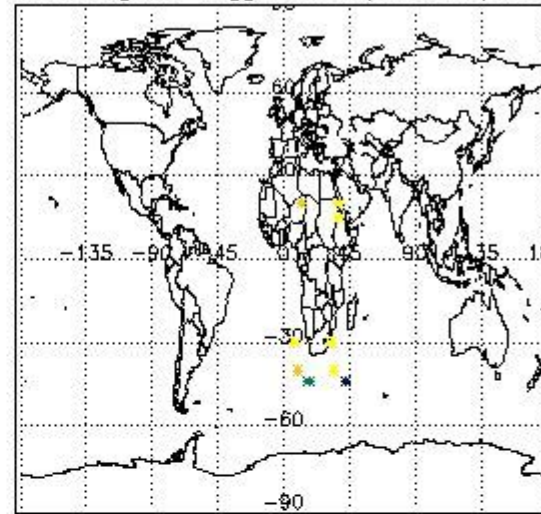


*3.2 Plot quality information per product (world map)*

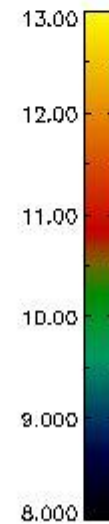
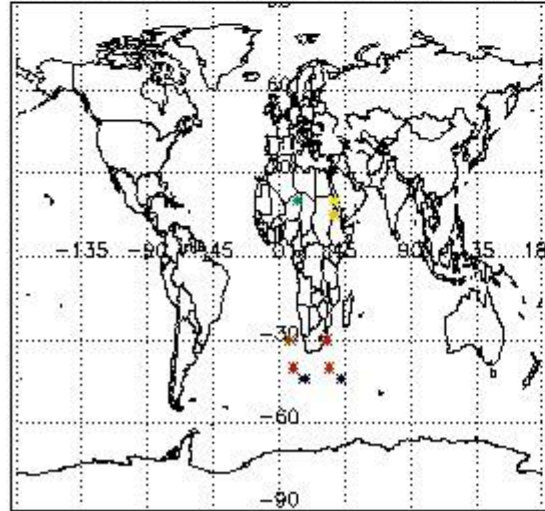
Percentage of flagged data per O3 profile



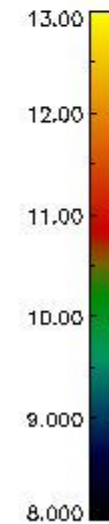
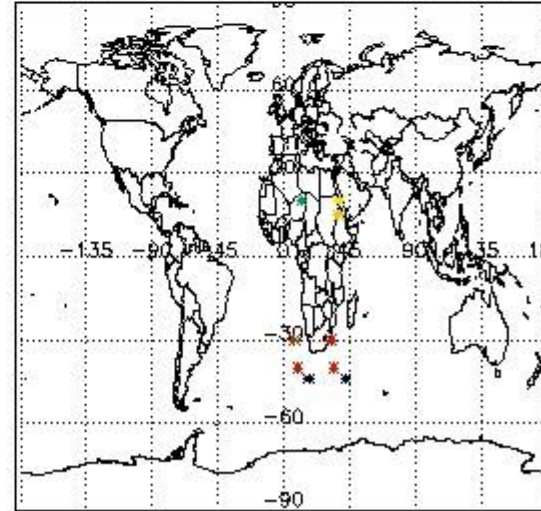
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

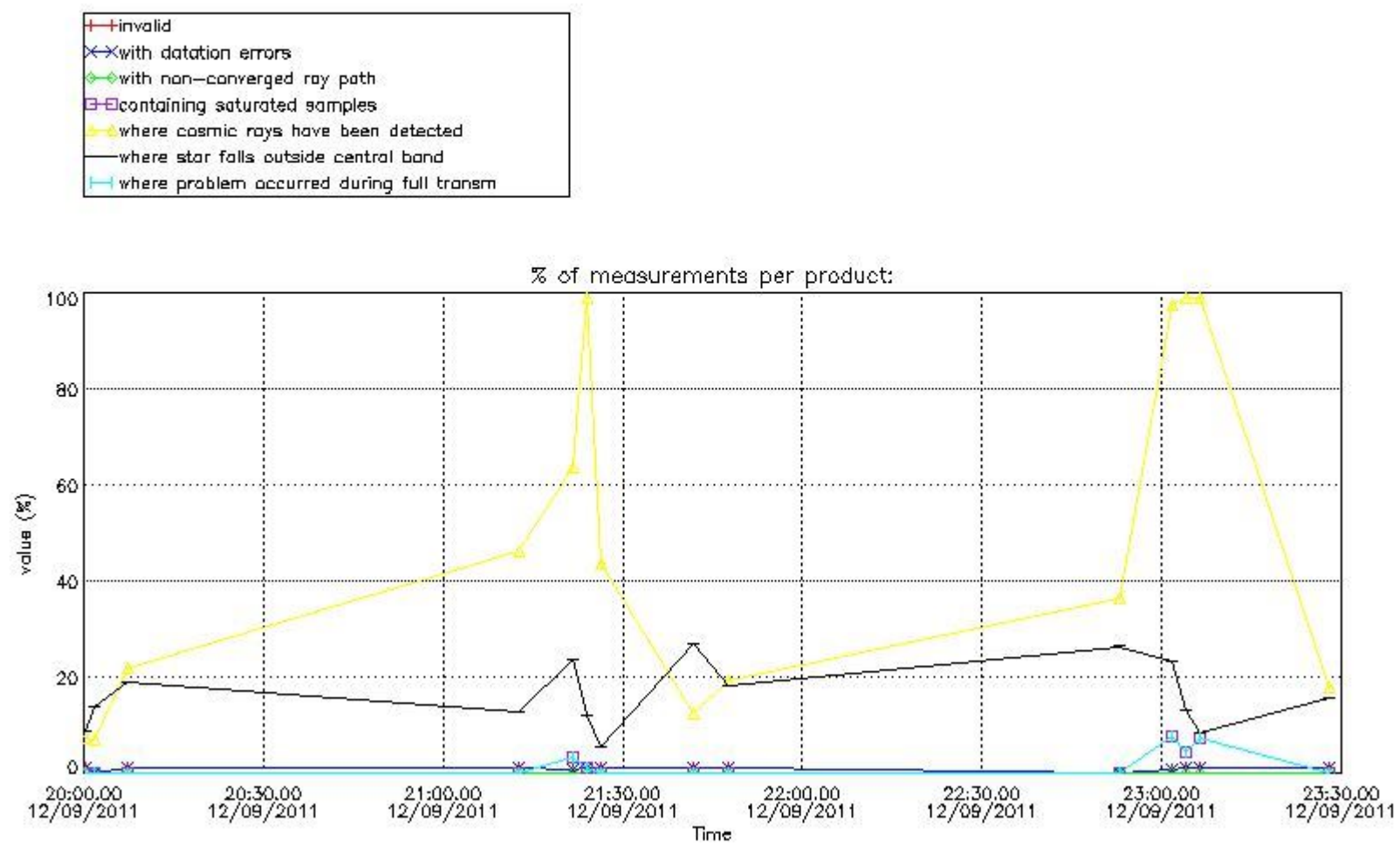


#### 4. Level 1 quality information per product

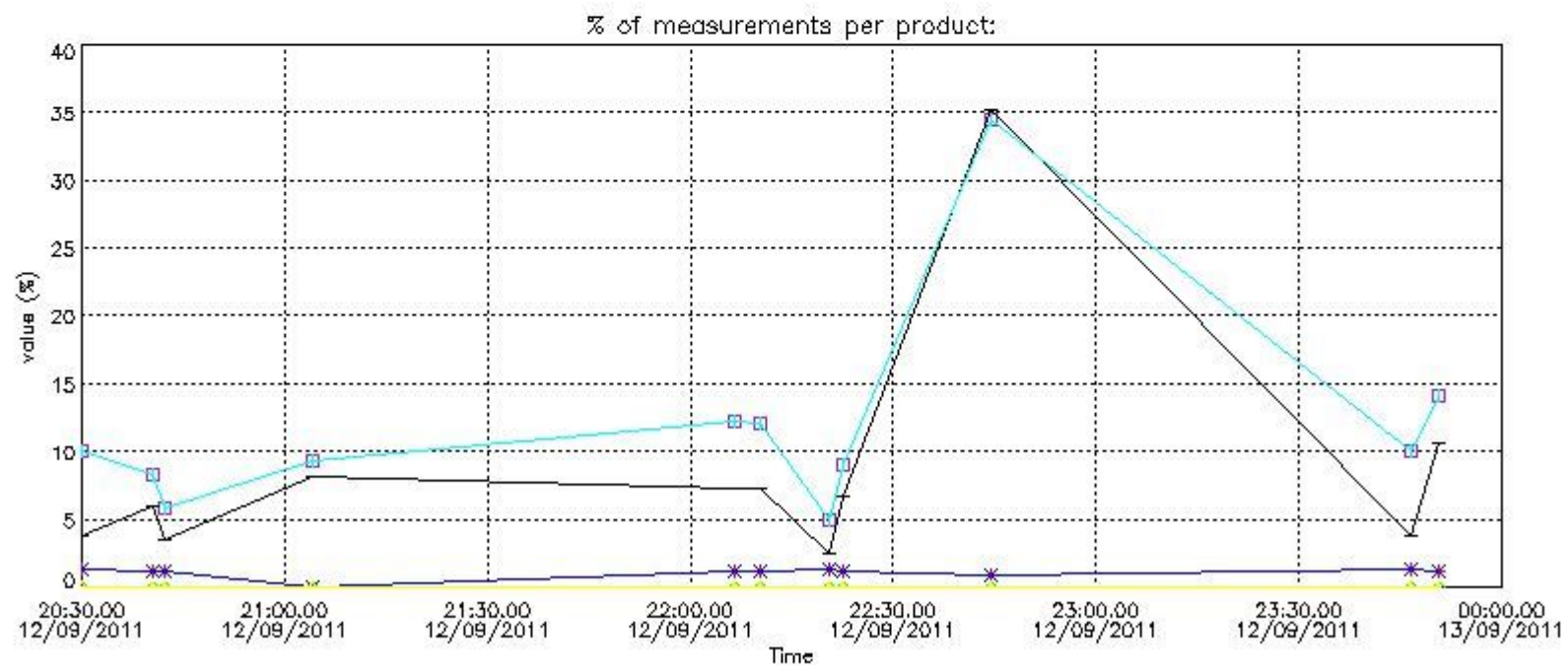
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



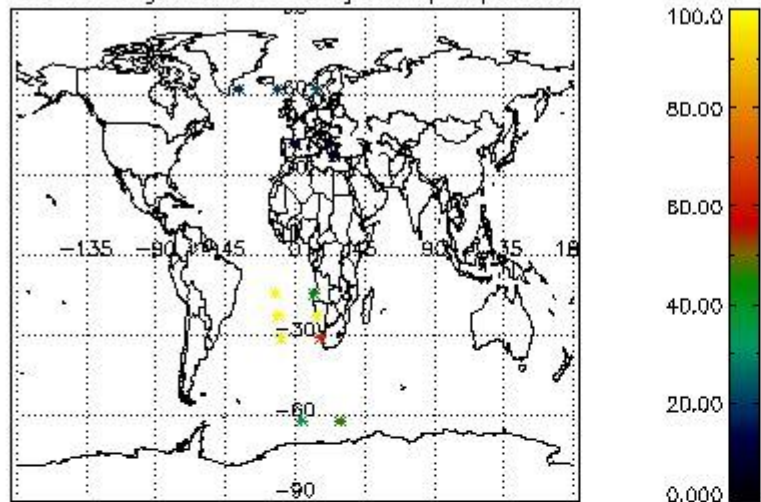
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



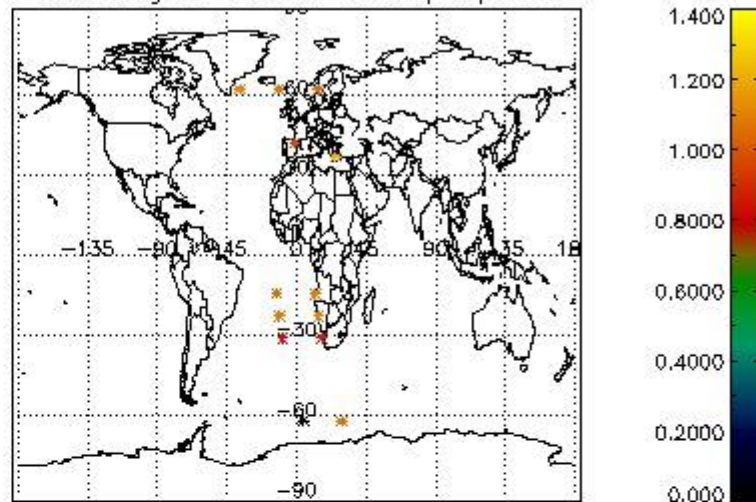
4.2 Plot quality information per product coming from level 1b processing (world map)

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

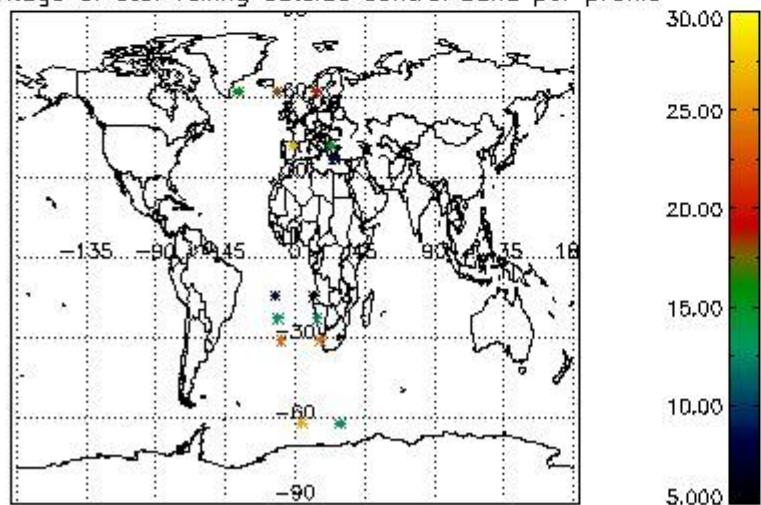
Percentage of cosmic ray hits per profile



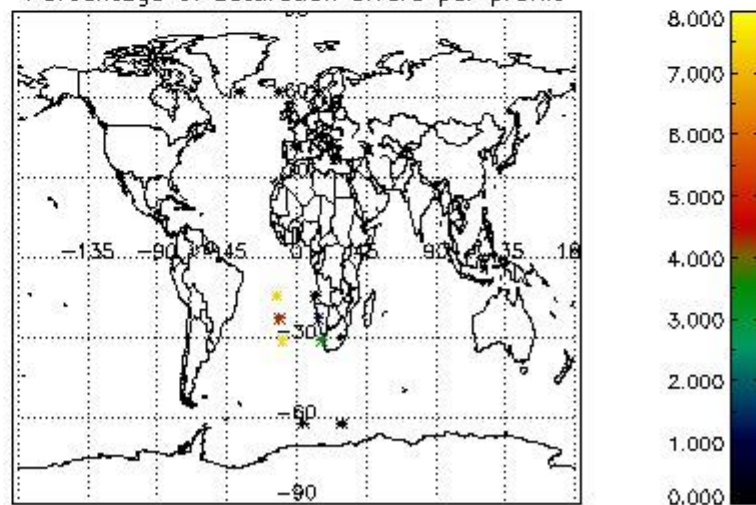
Percentage of datation errors per profile



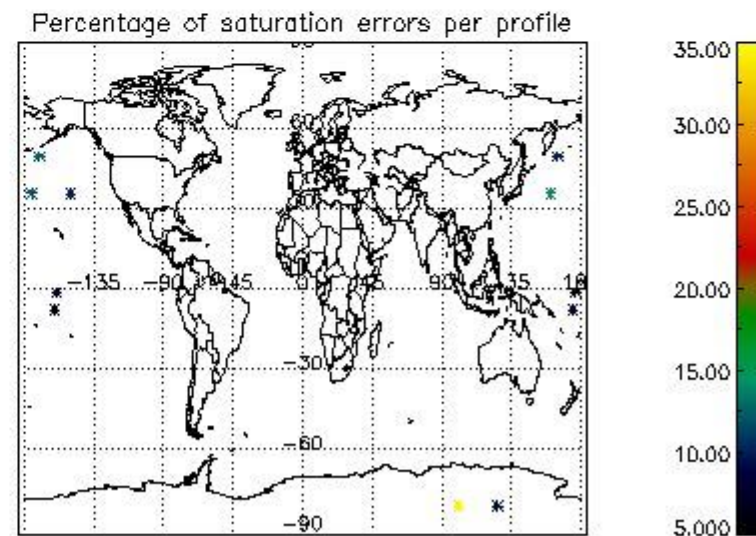
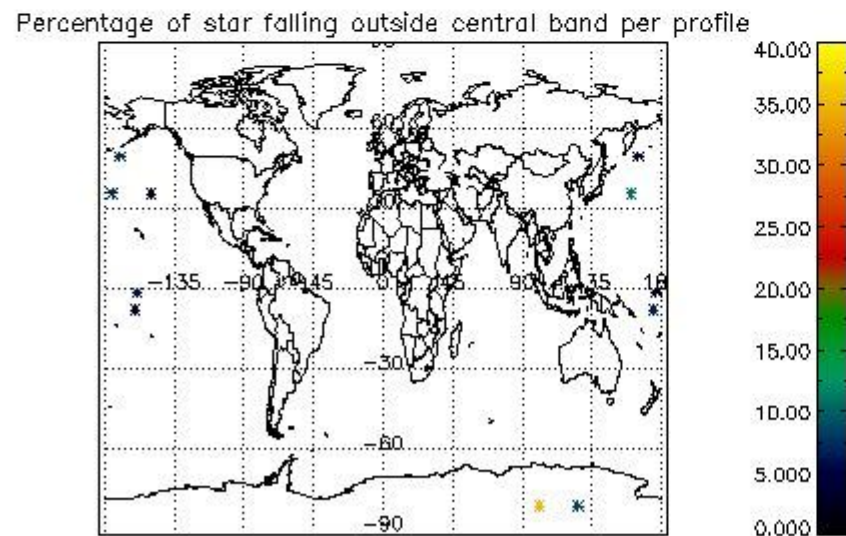
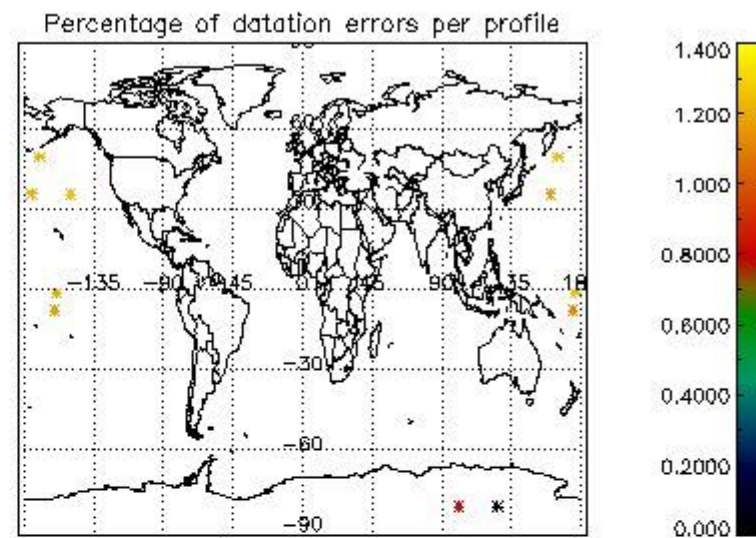
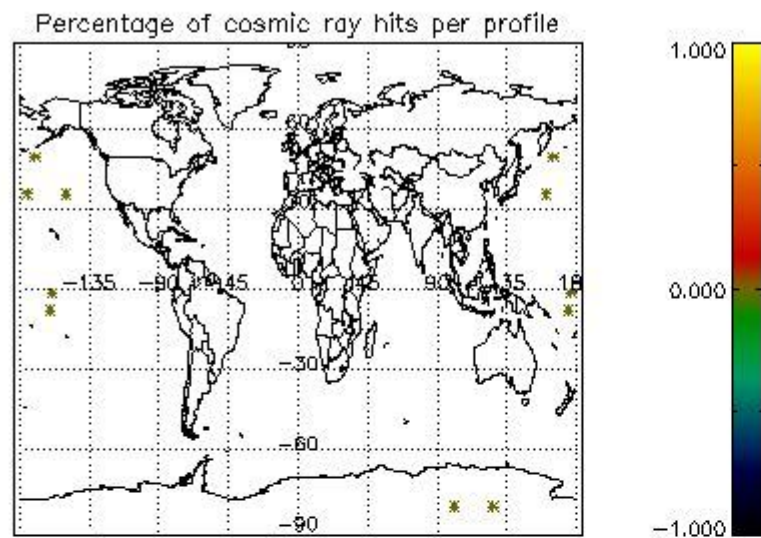
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

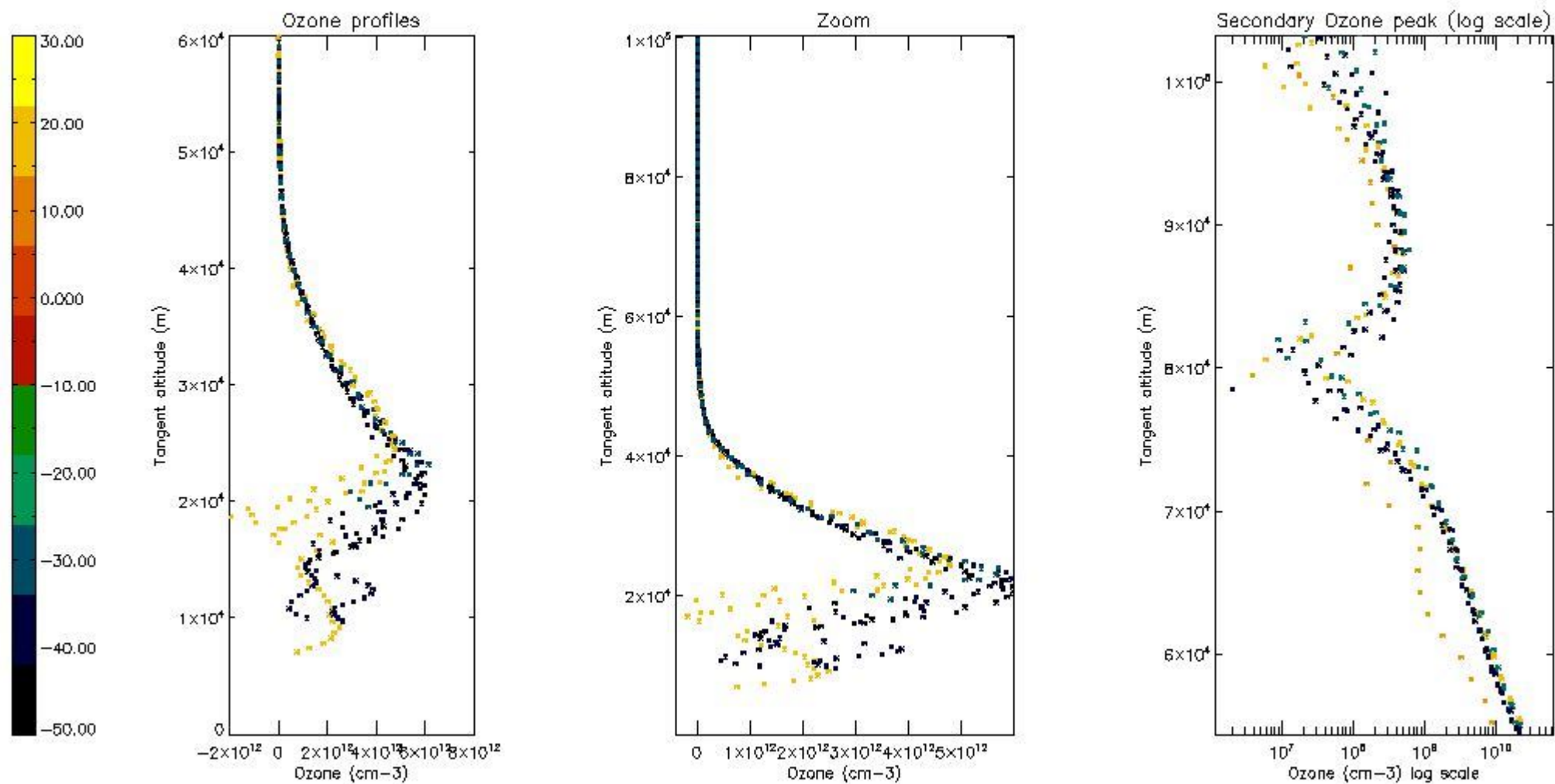
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	39
STD < 20	26

STD < 10	23
STD < 5	18

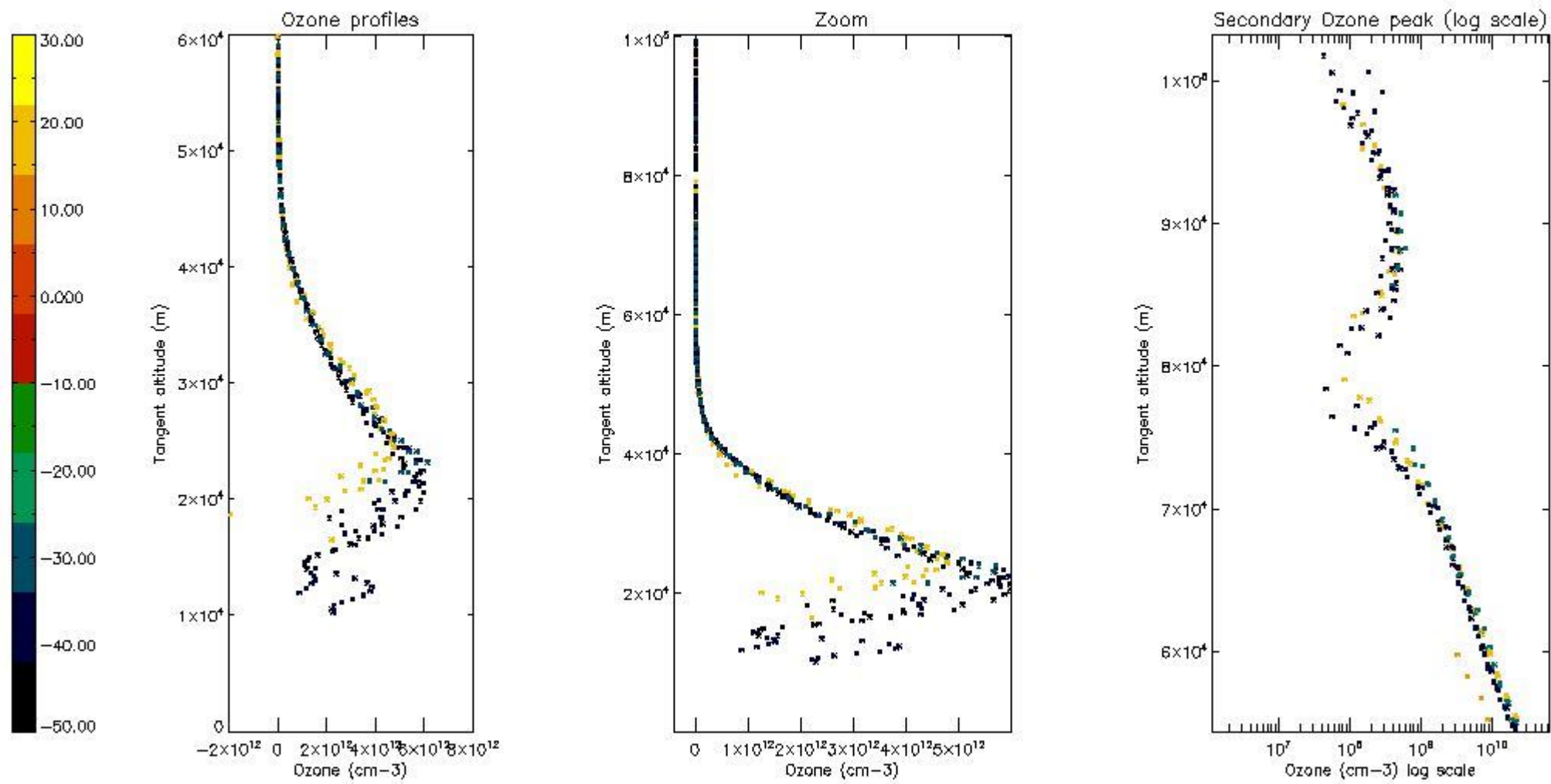
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

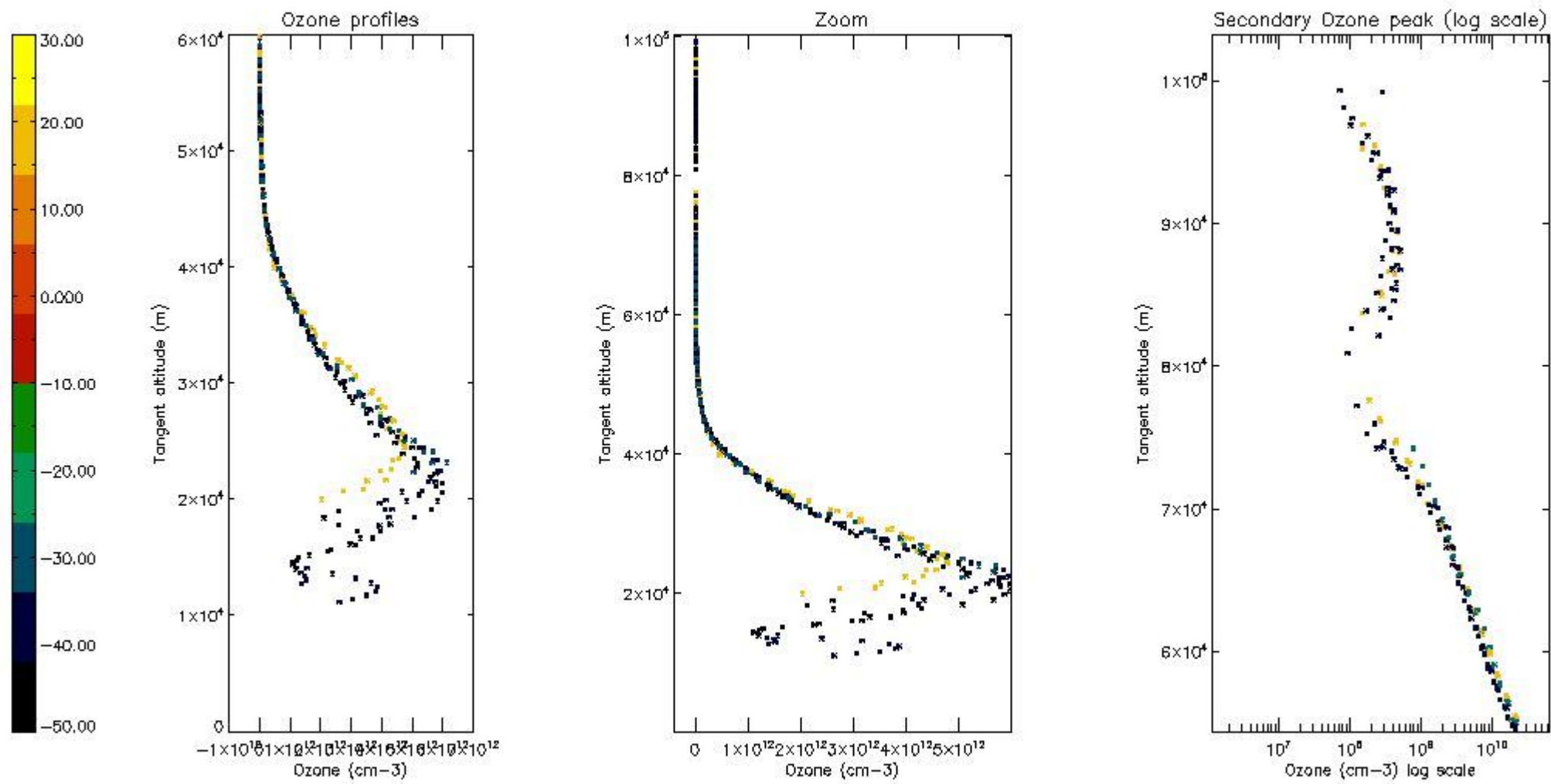
The colorbar represents the latitude.



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

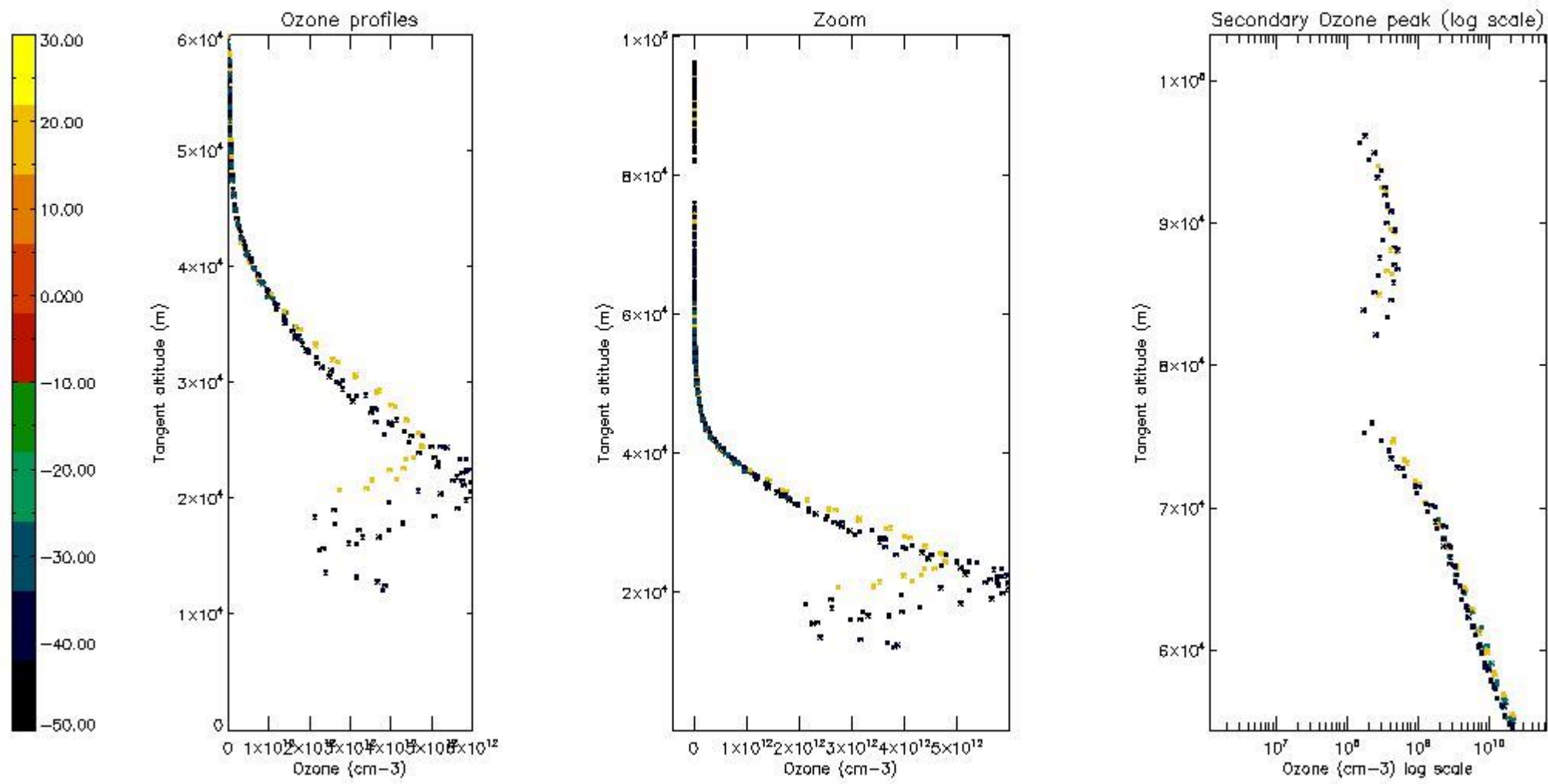
The colorbar represents the latitude.





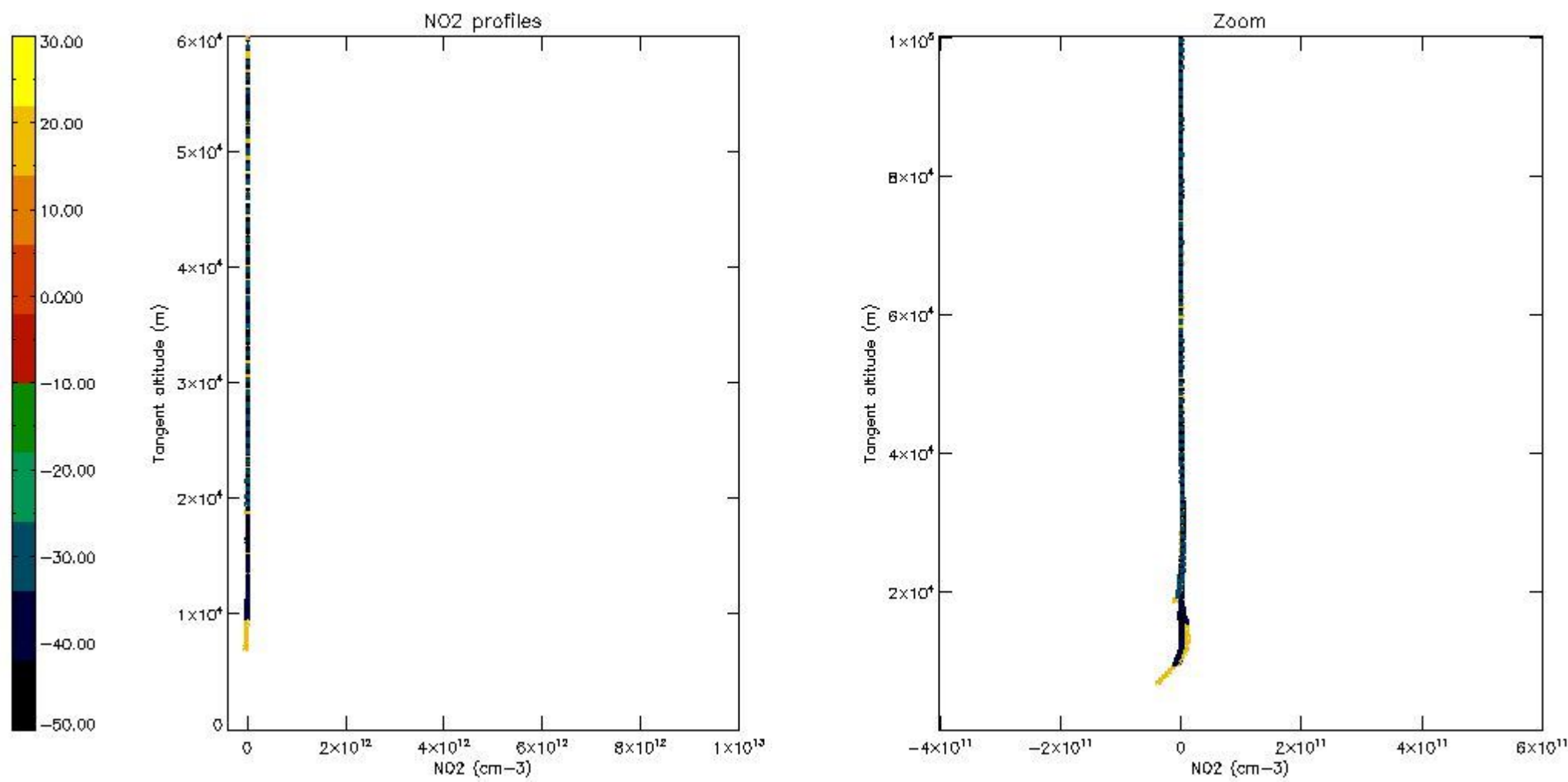
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



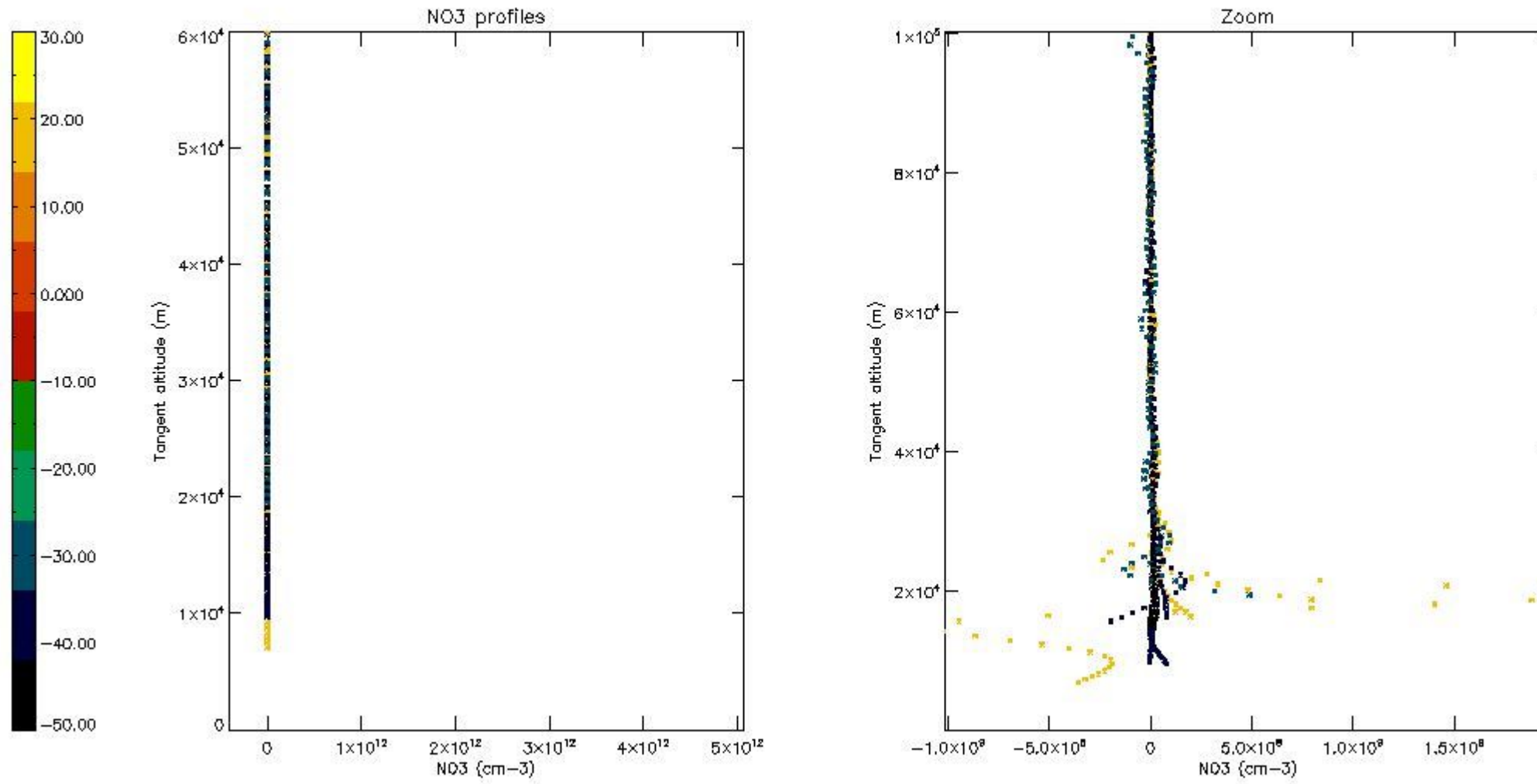
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

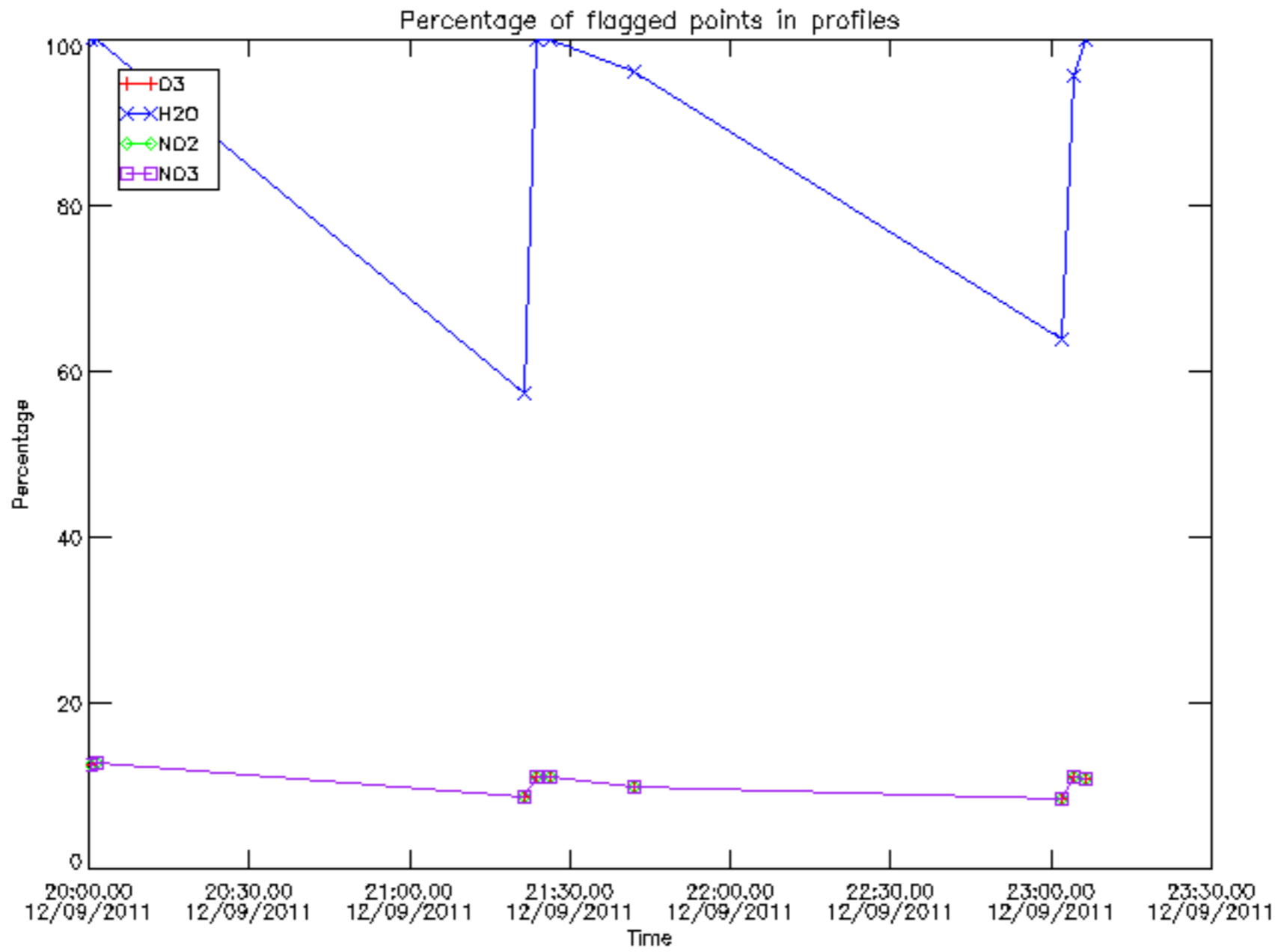
The colorbar represents the latitude.



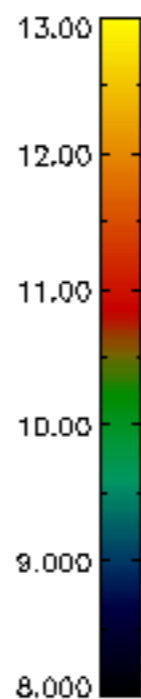
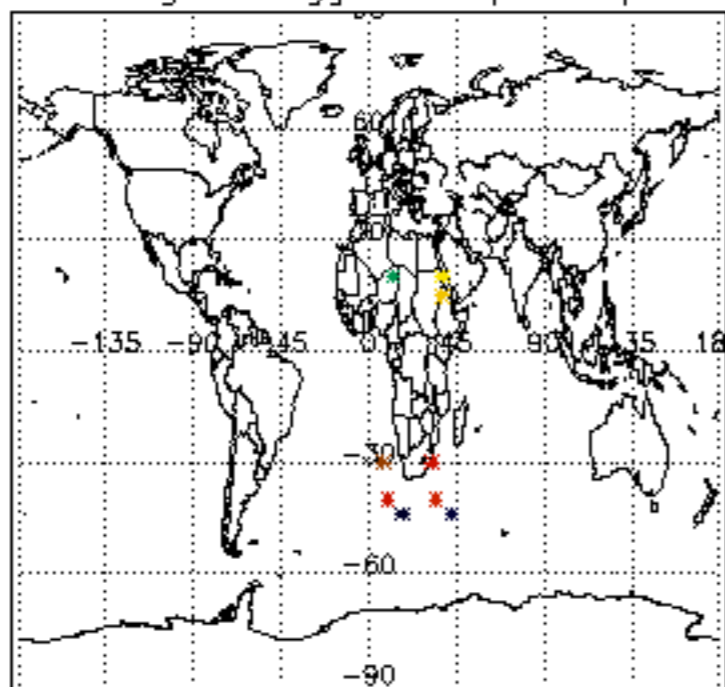
## 6. Auxiliary Data Files used for the production reported in section 2

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.

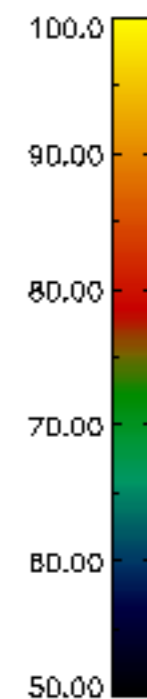
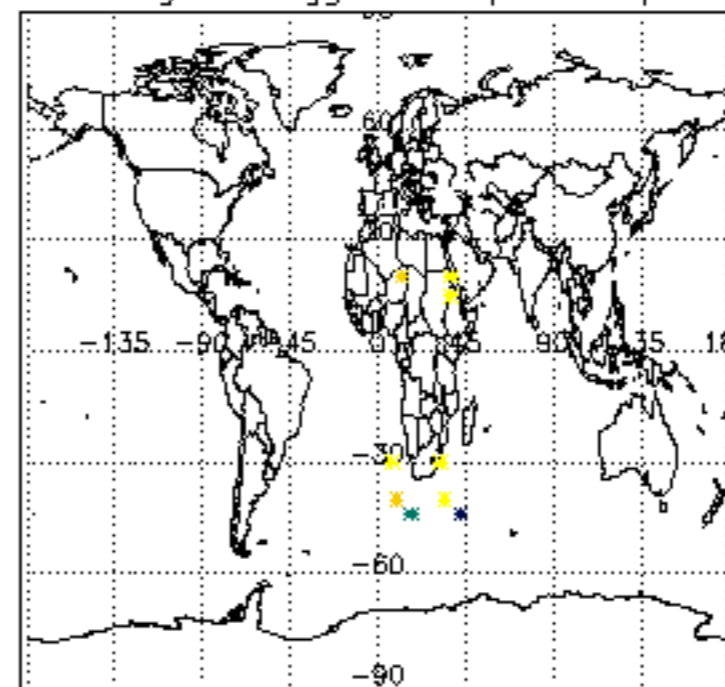
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	12-SEP-2011 20:00:16
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	12-SEP-2011 20:00:16
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	12-SEP-2011 20:00:16



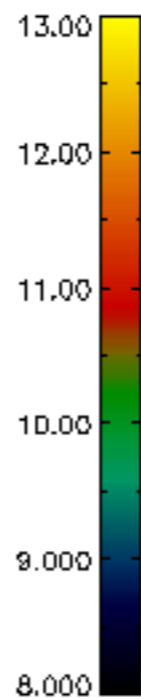
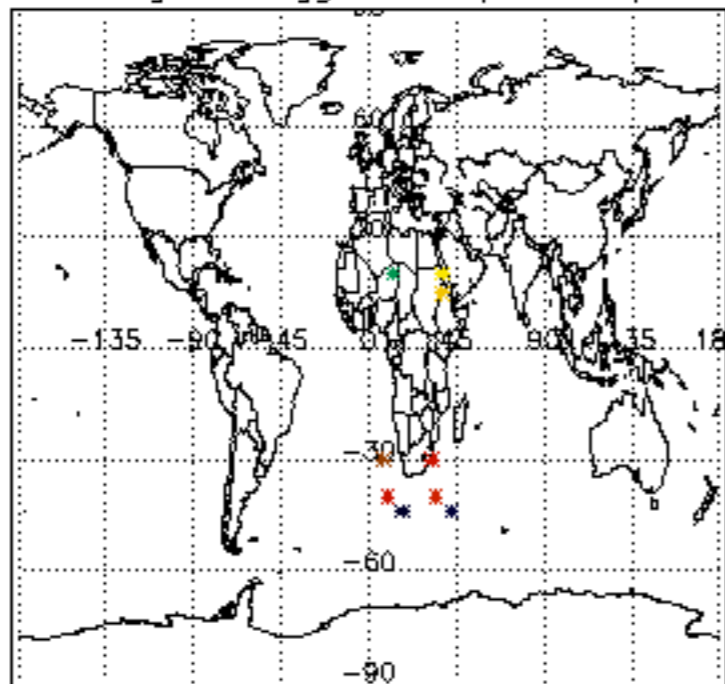
Percentage of flagged data per D3 profile



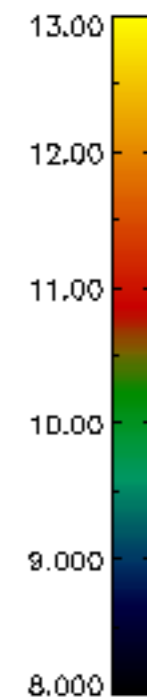
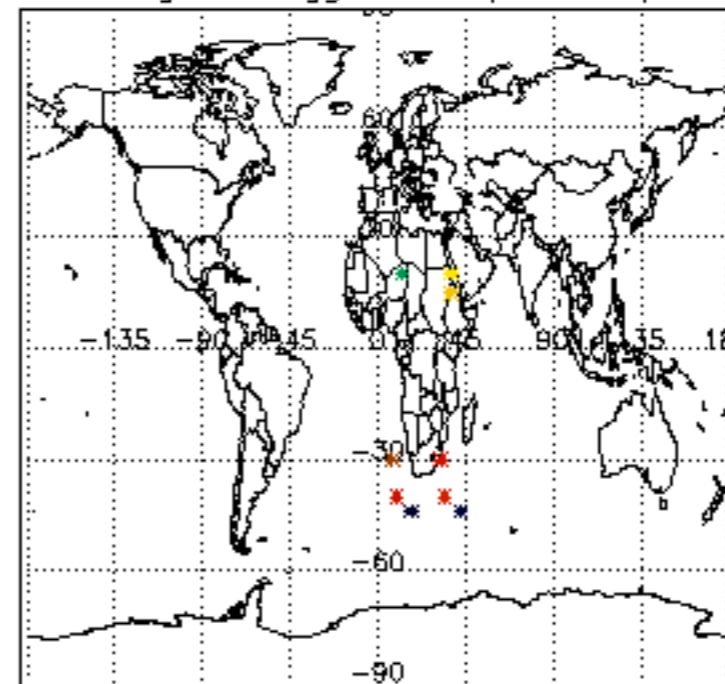
Percentage of flagged data per H2O profile

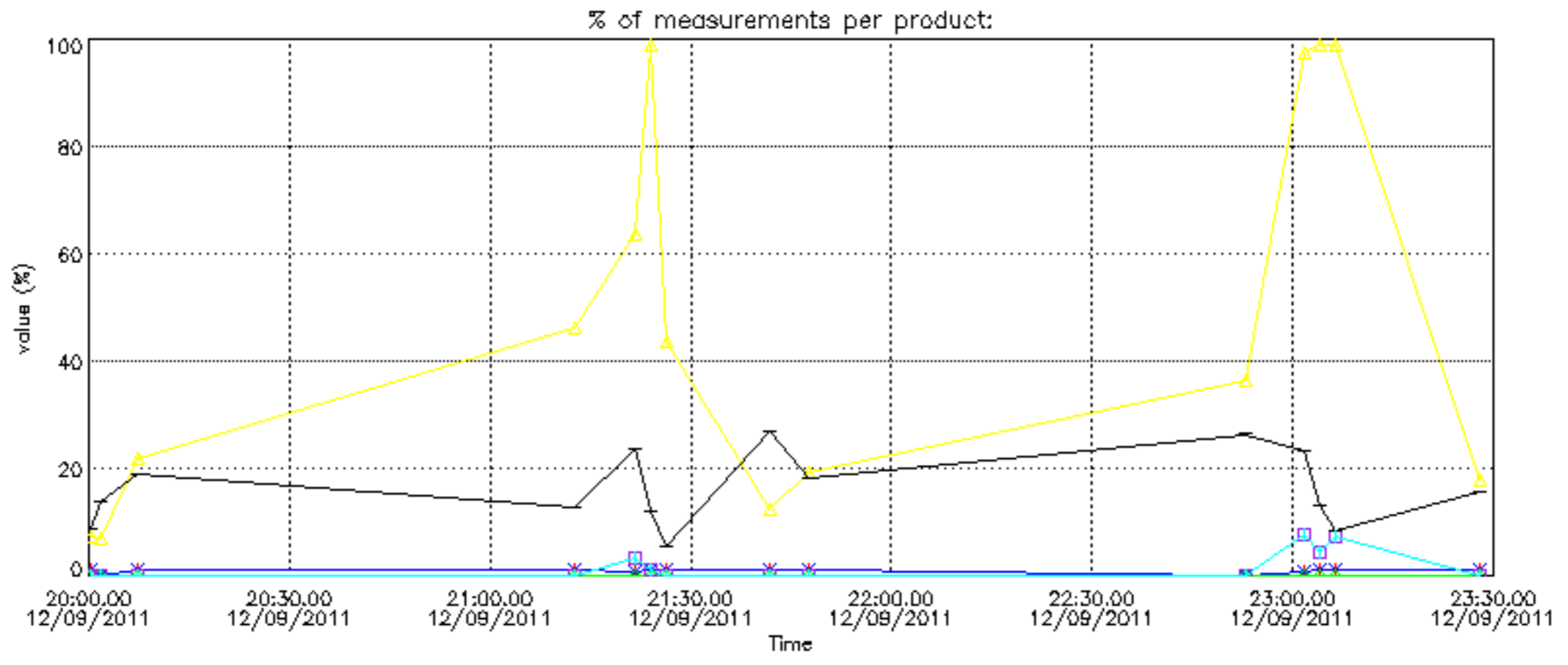


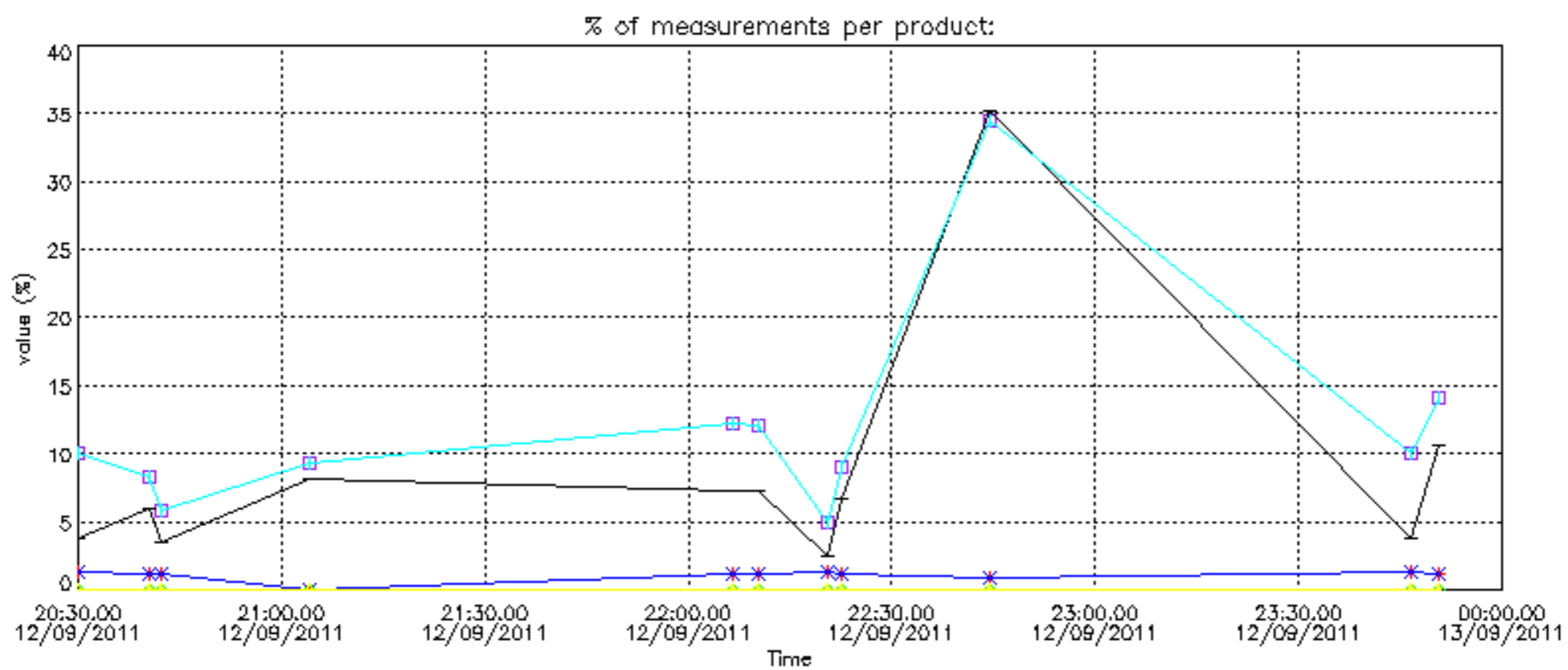
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

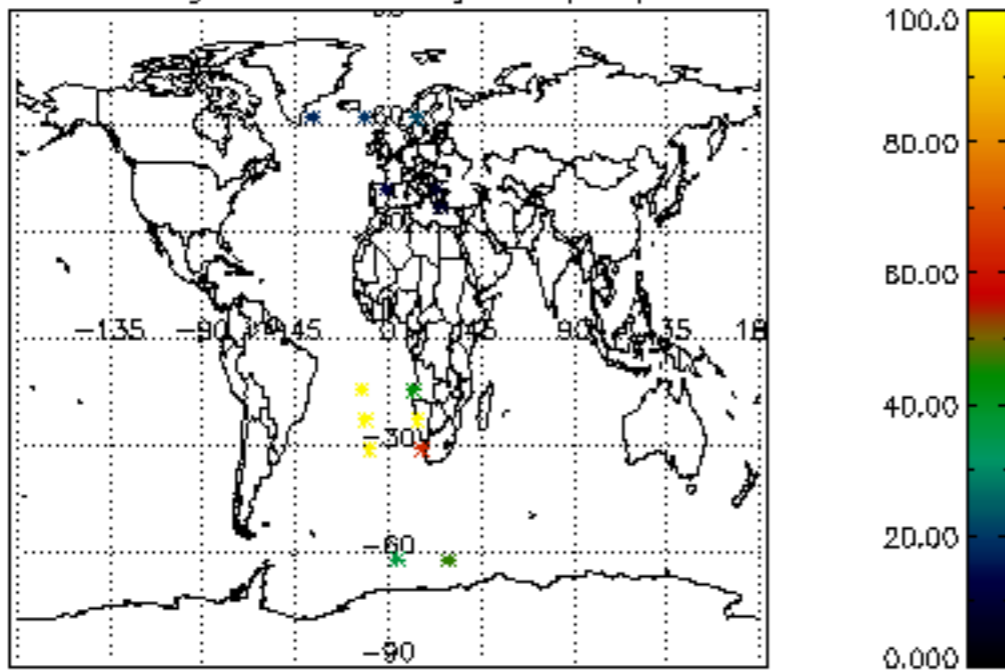




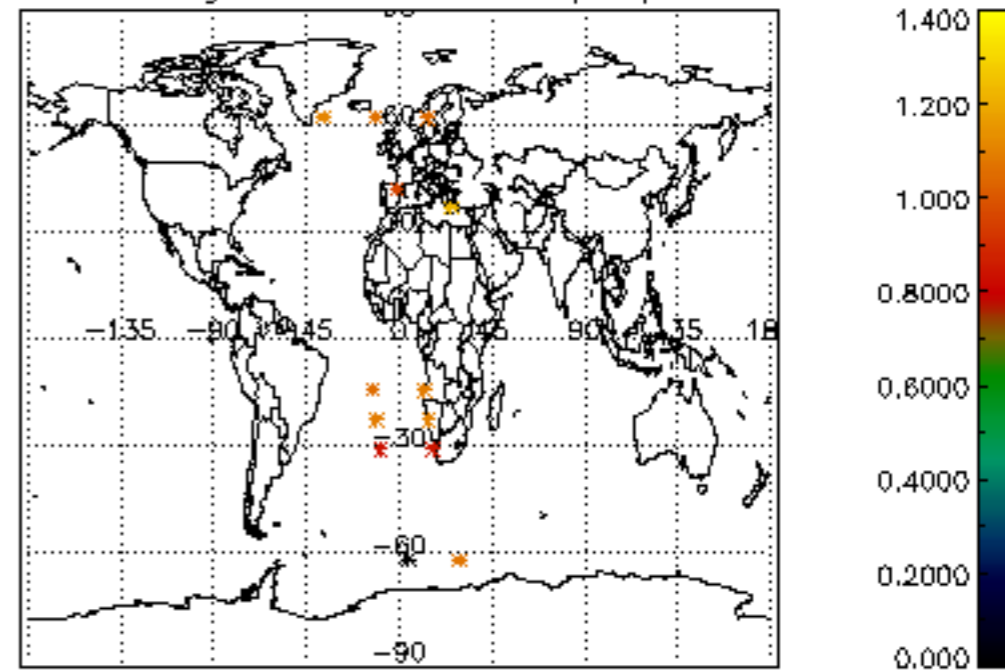




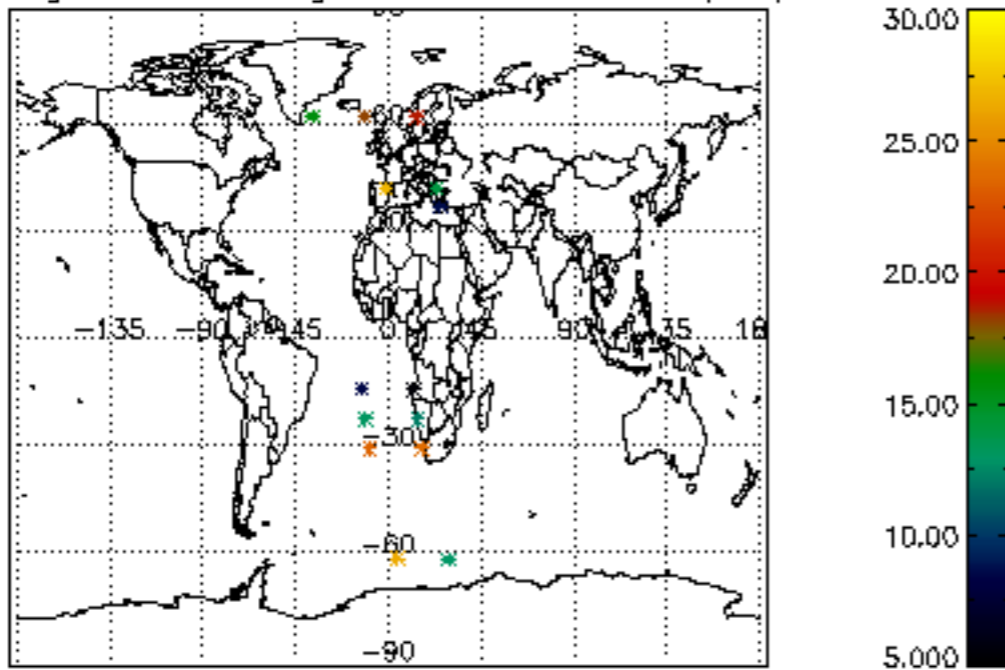
Percentage of cosmic ray hits per profile



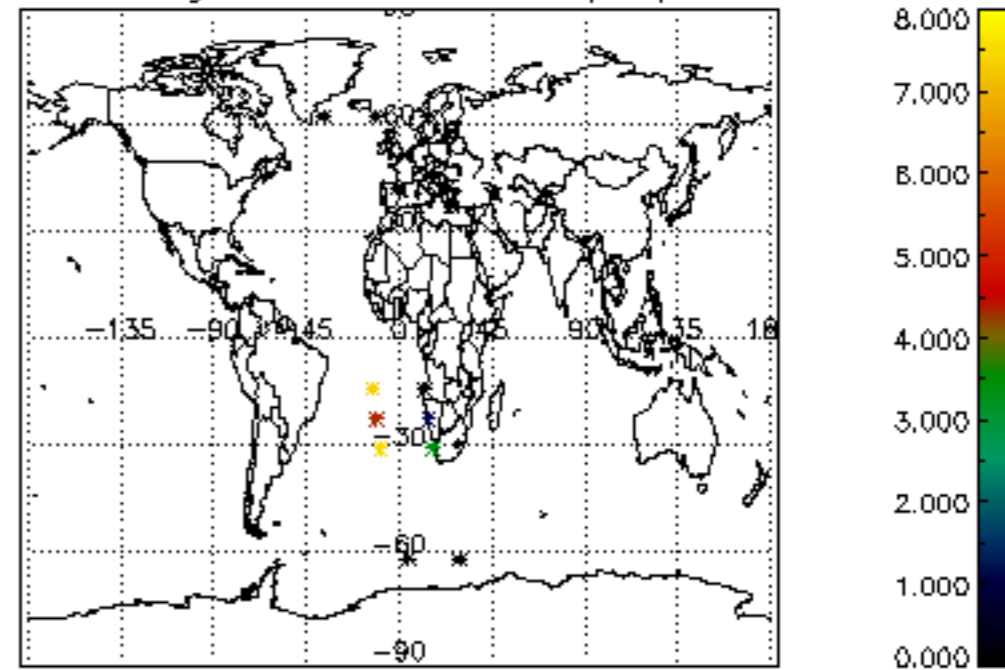
Percentage of datation errors per profile



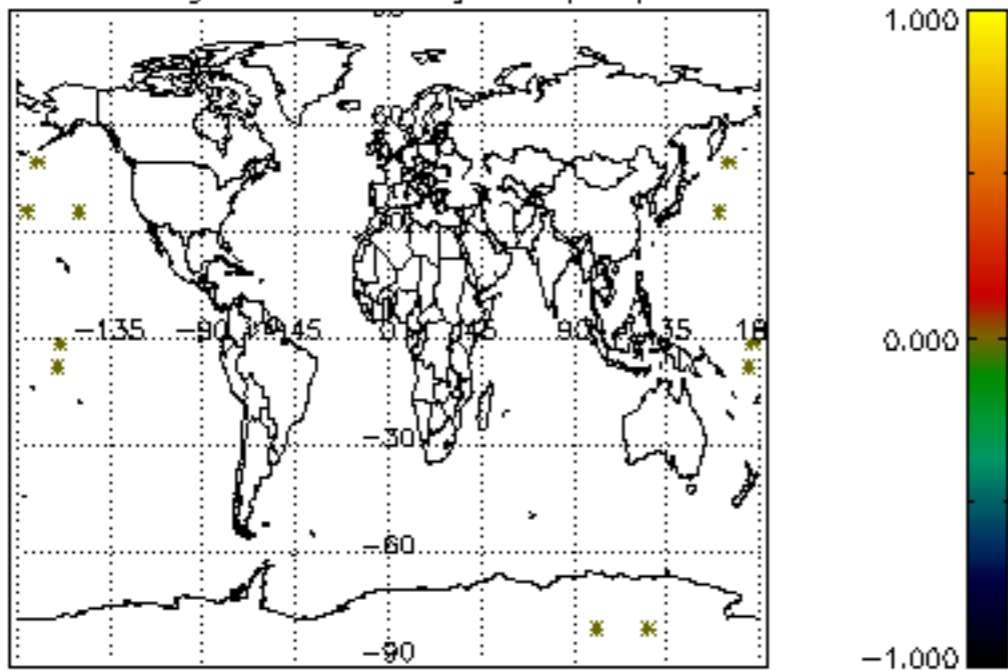
Percentage of star falling outside central band per profile



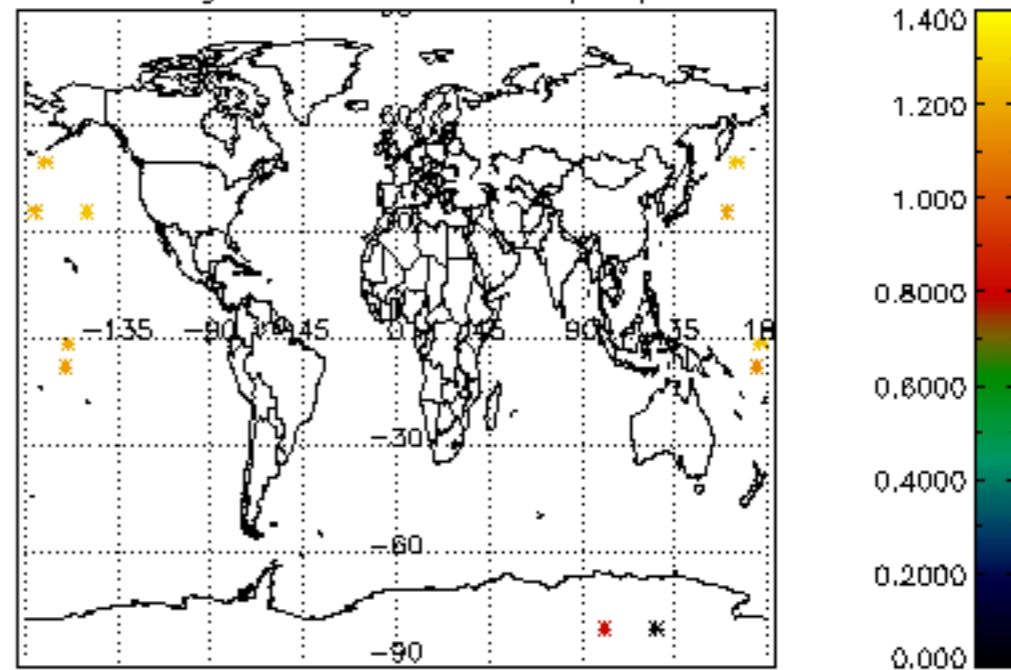
Percentage of saturation errors per profile



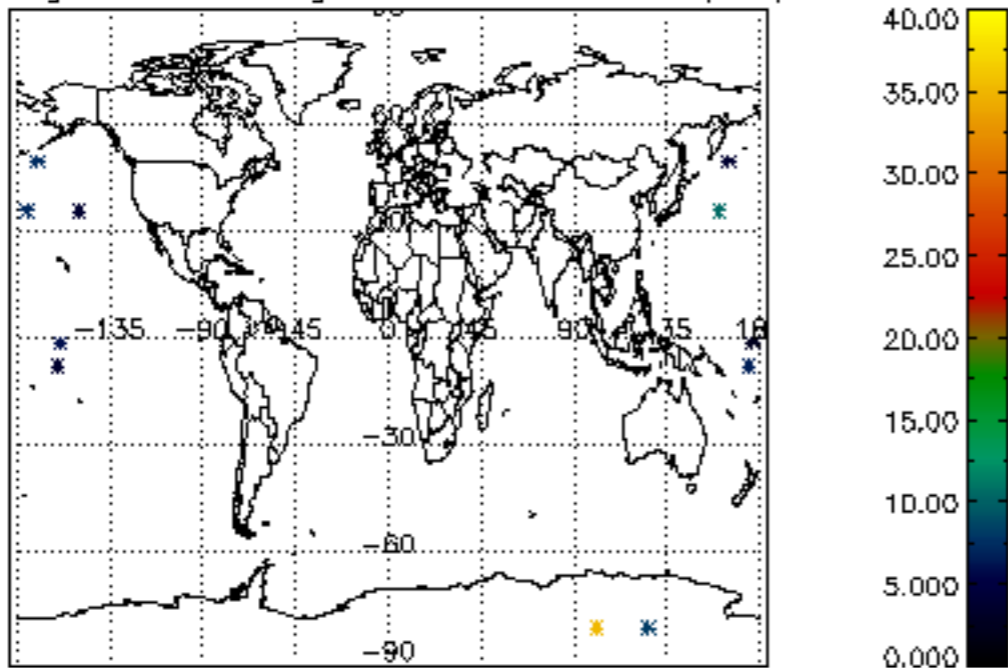
Percentage of cosmic ray hits per profile



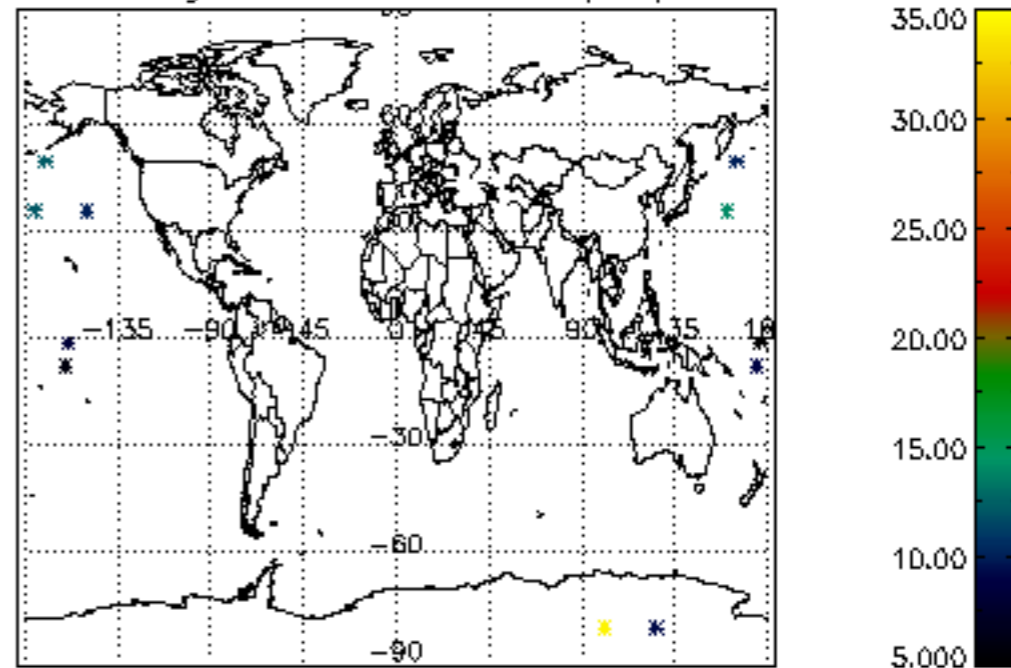
Percentage of datation errors per profile

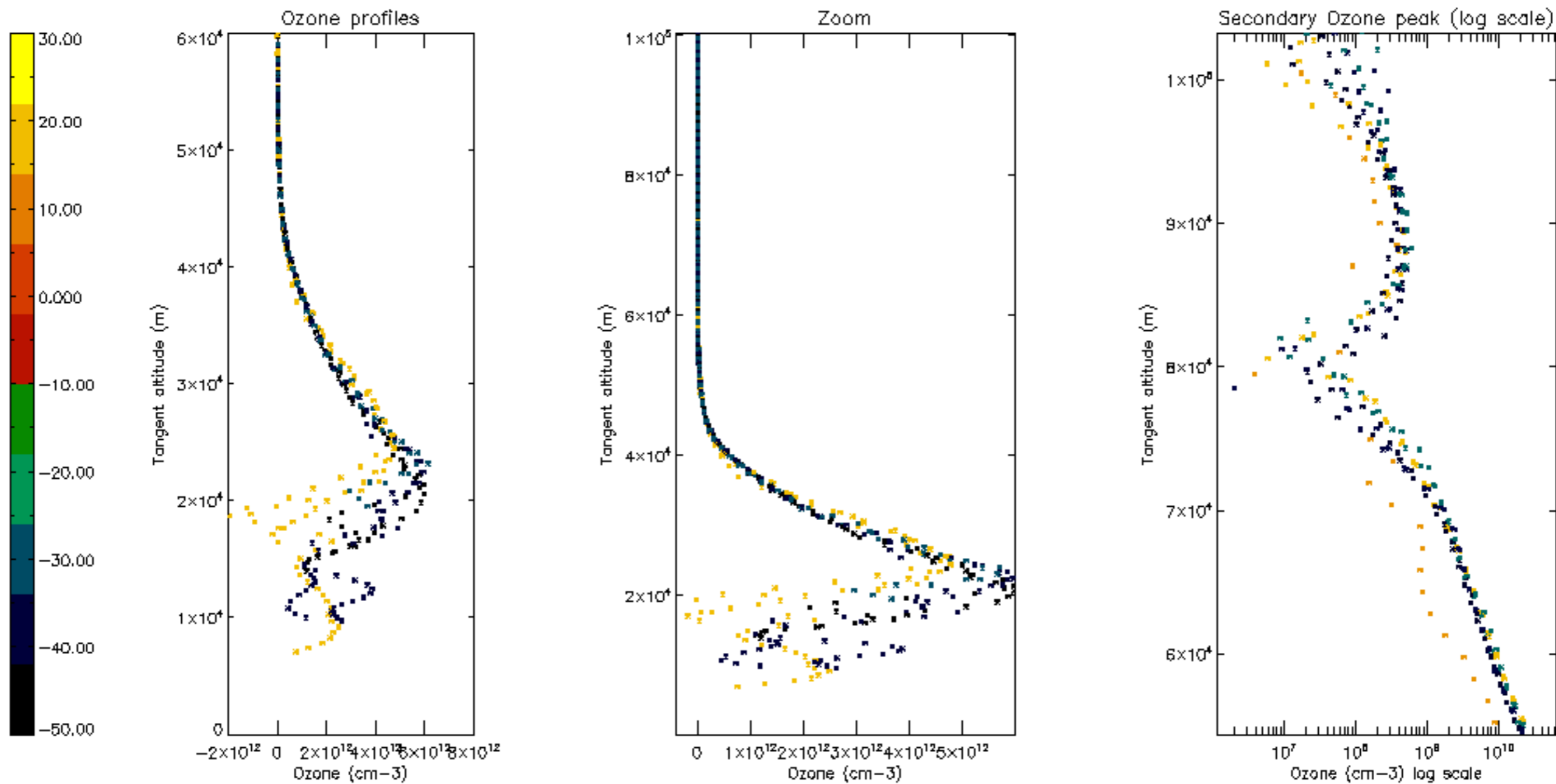


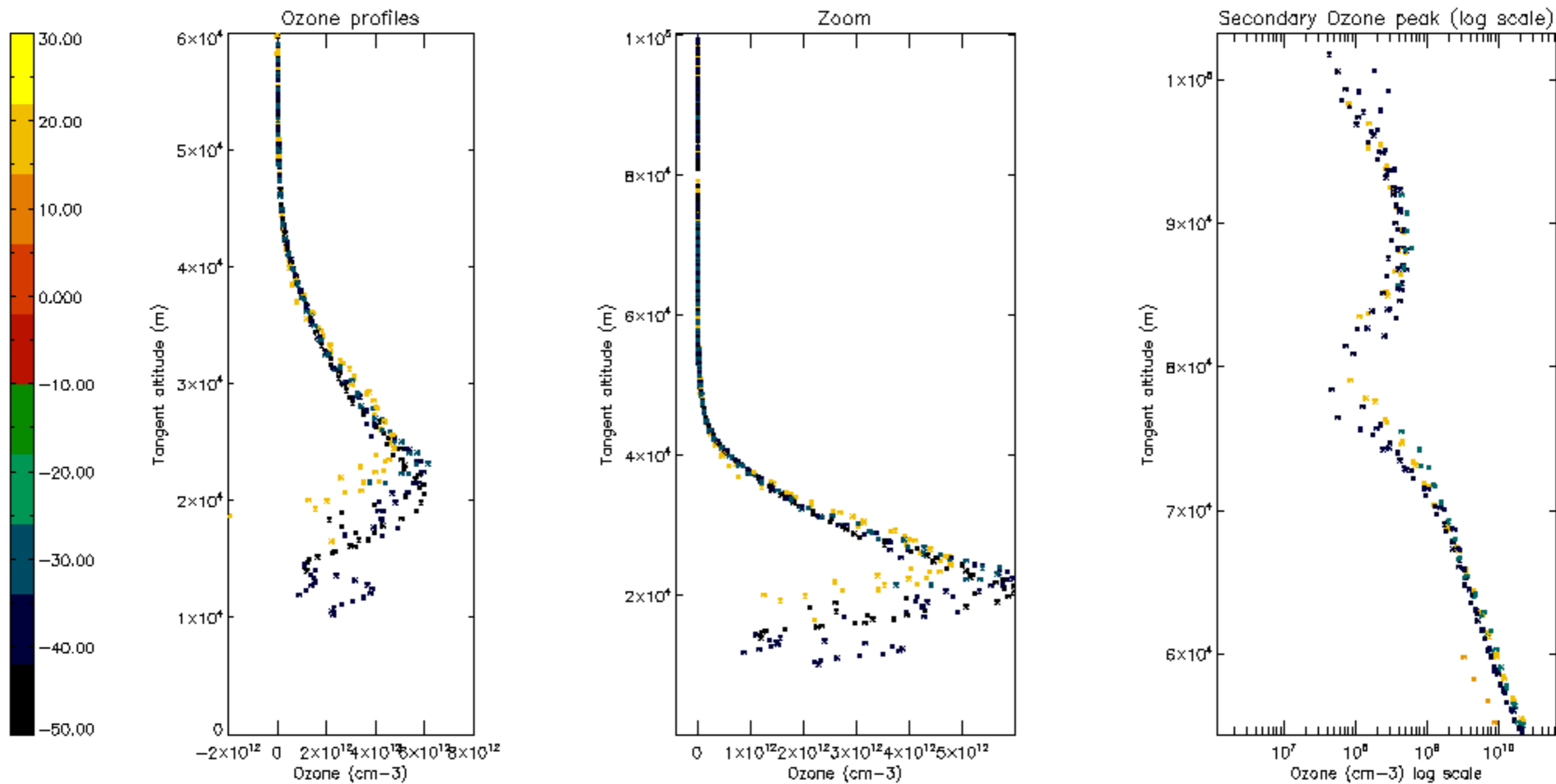
Percentage of star falling outside central band per profile

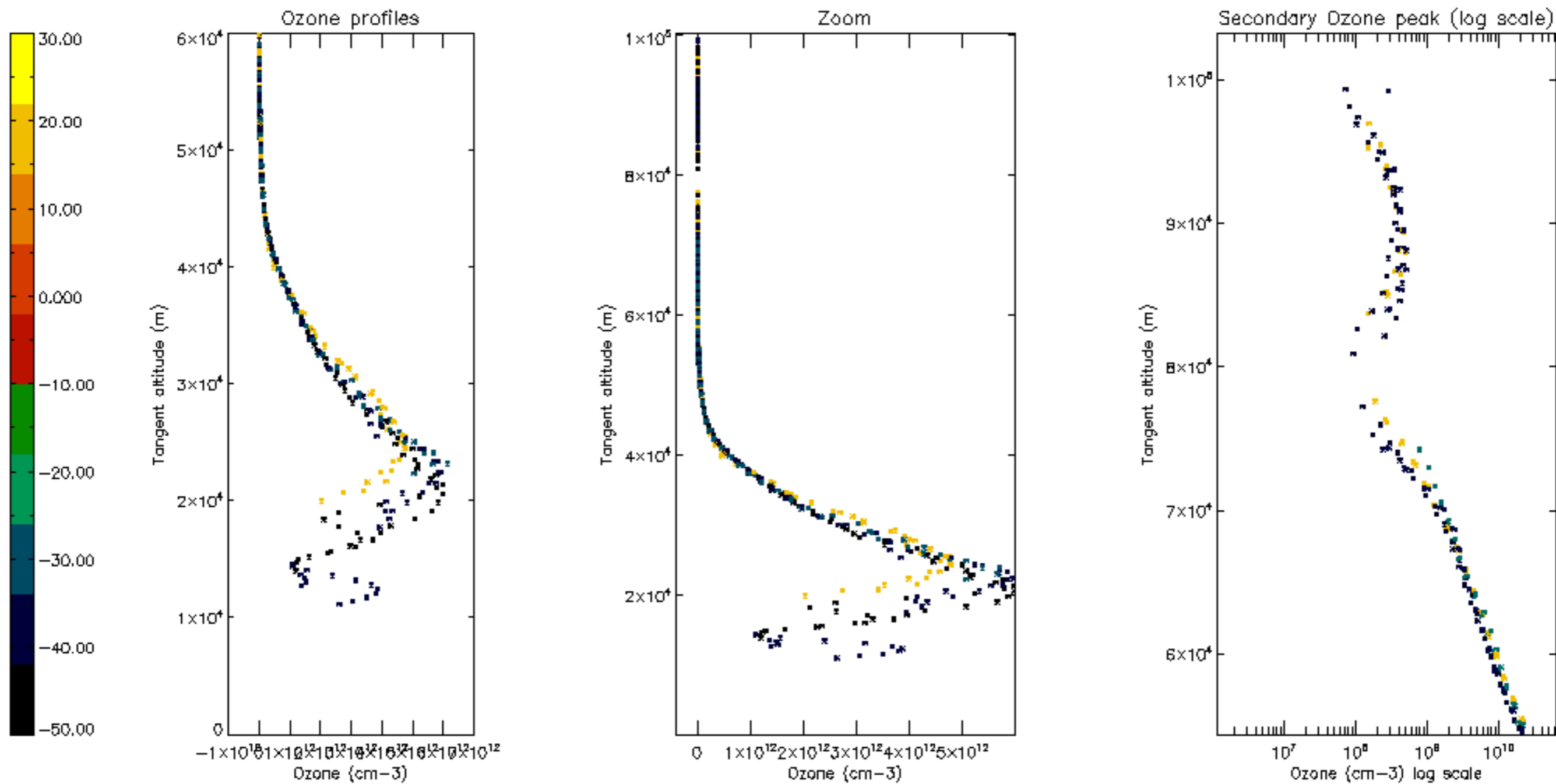


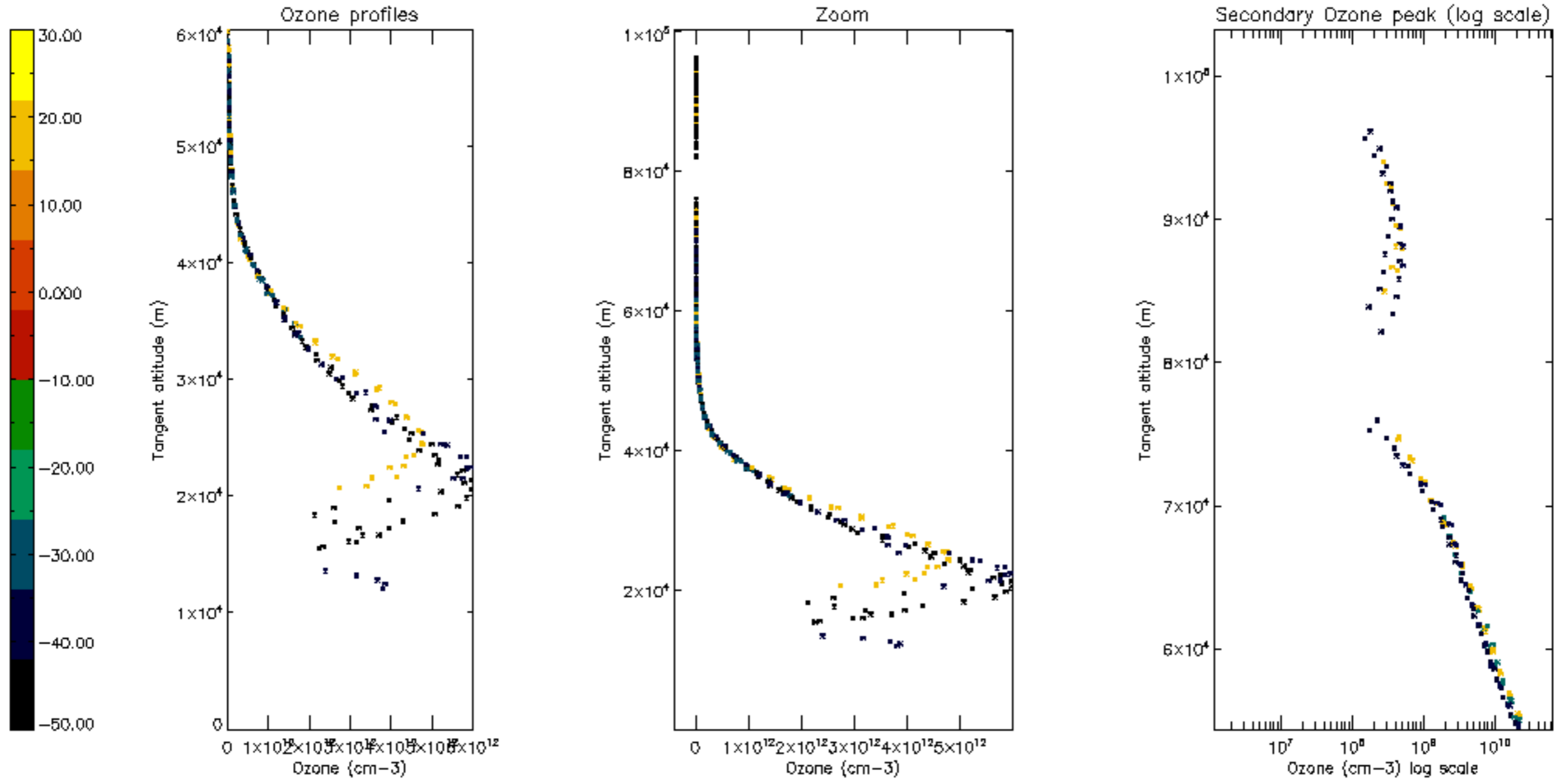
Percentage of saturation errors per profile

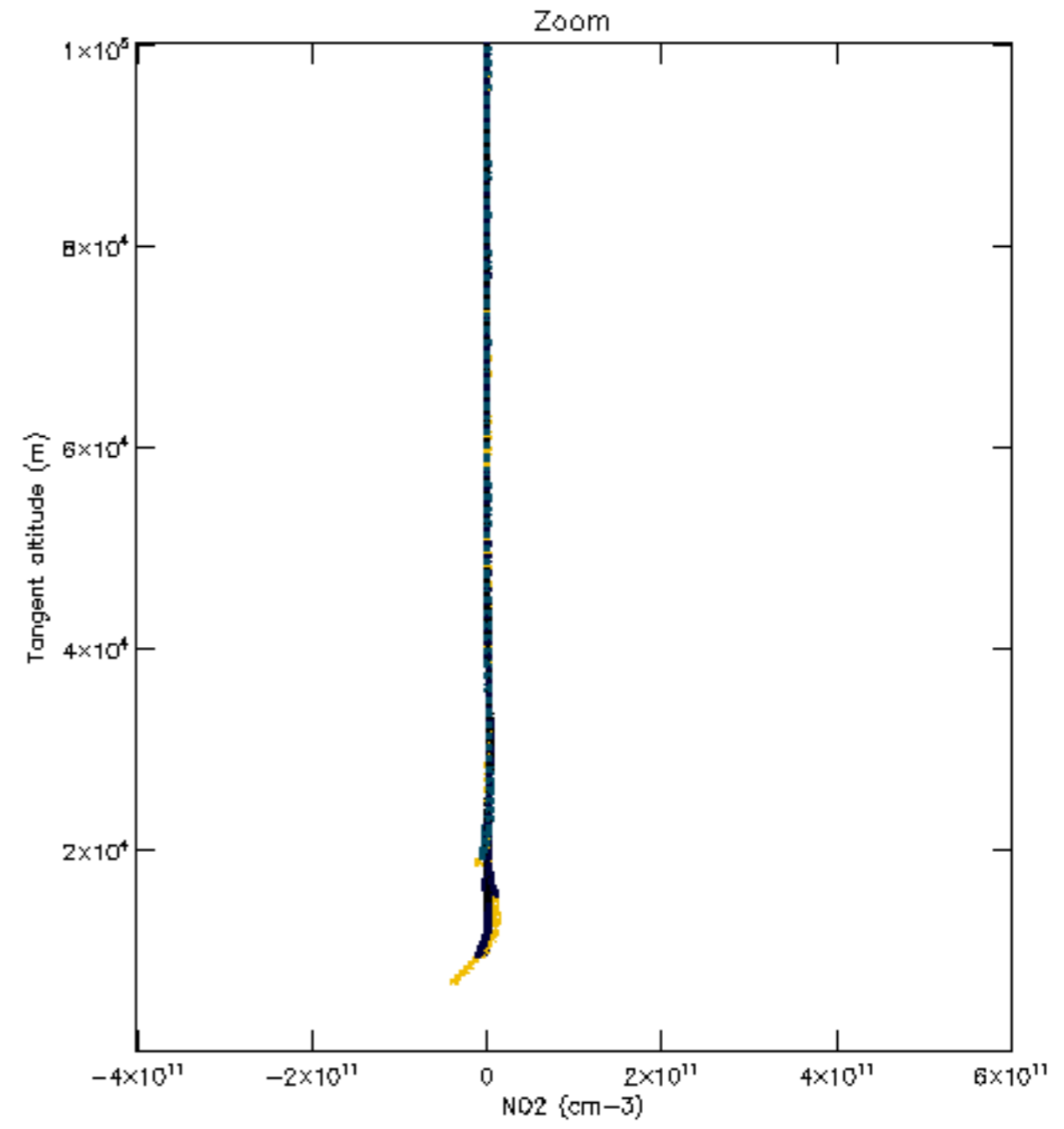
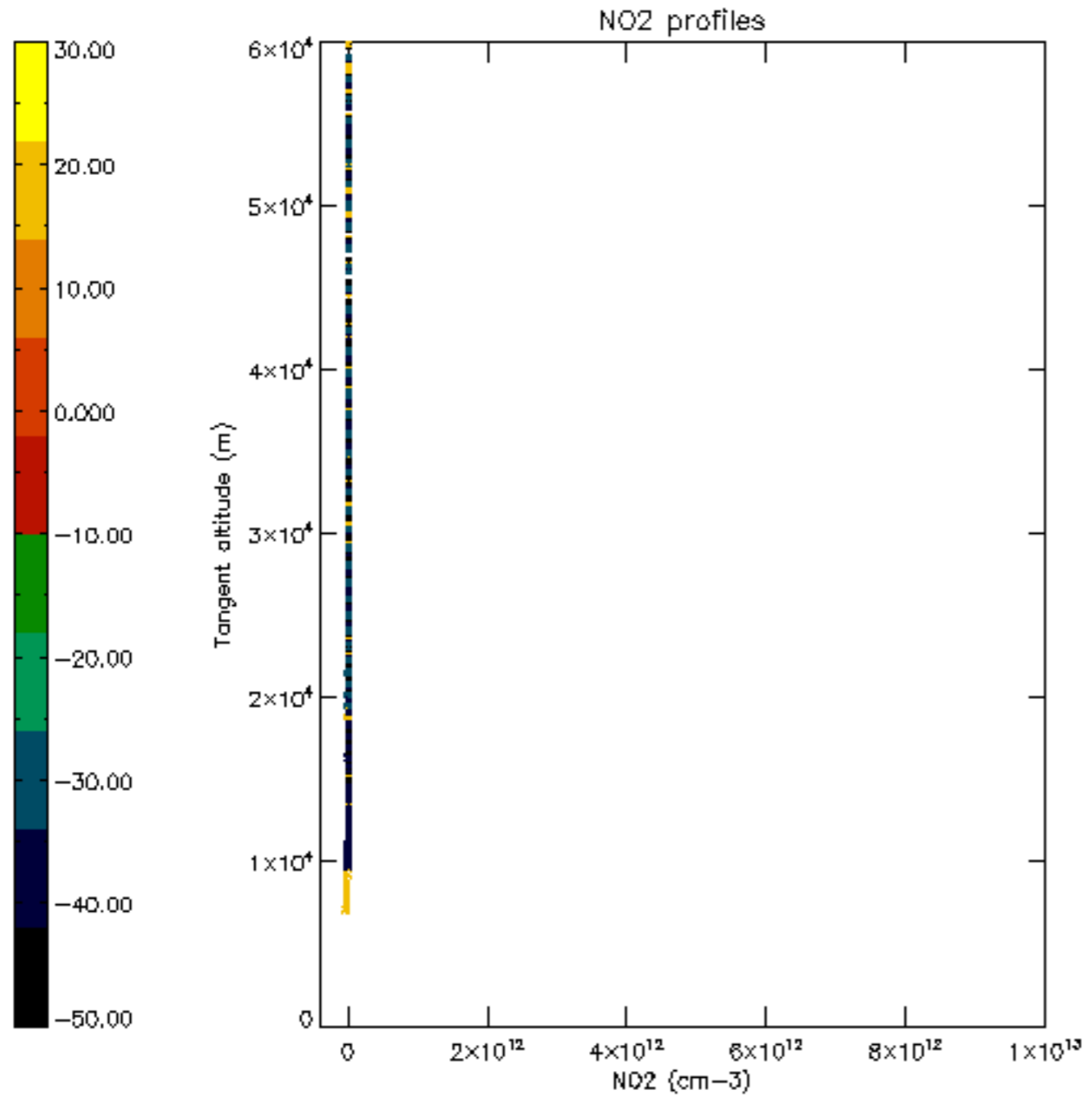


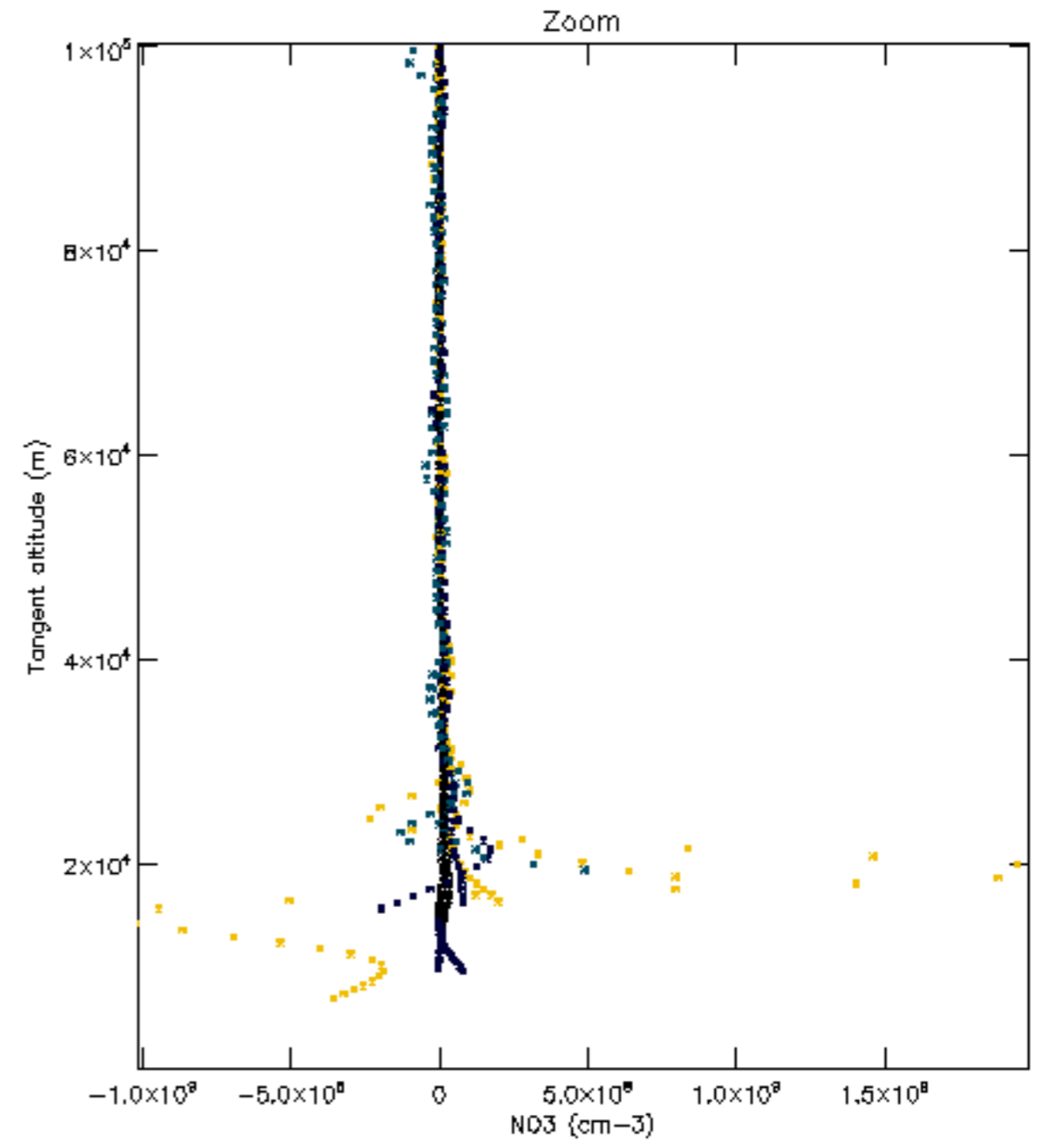
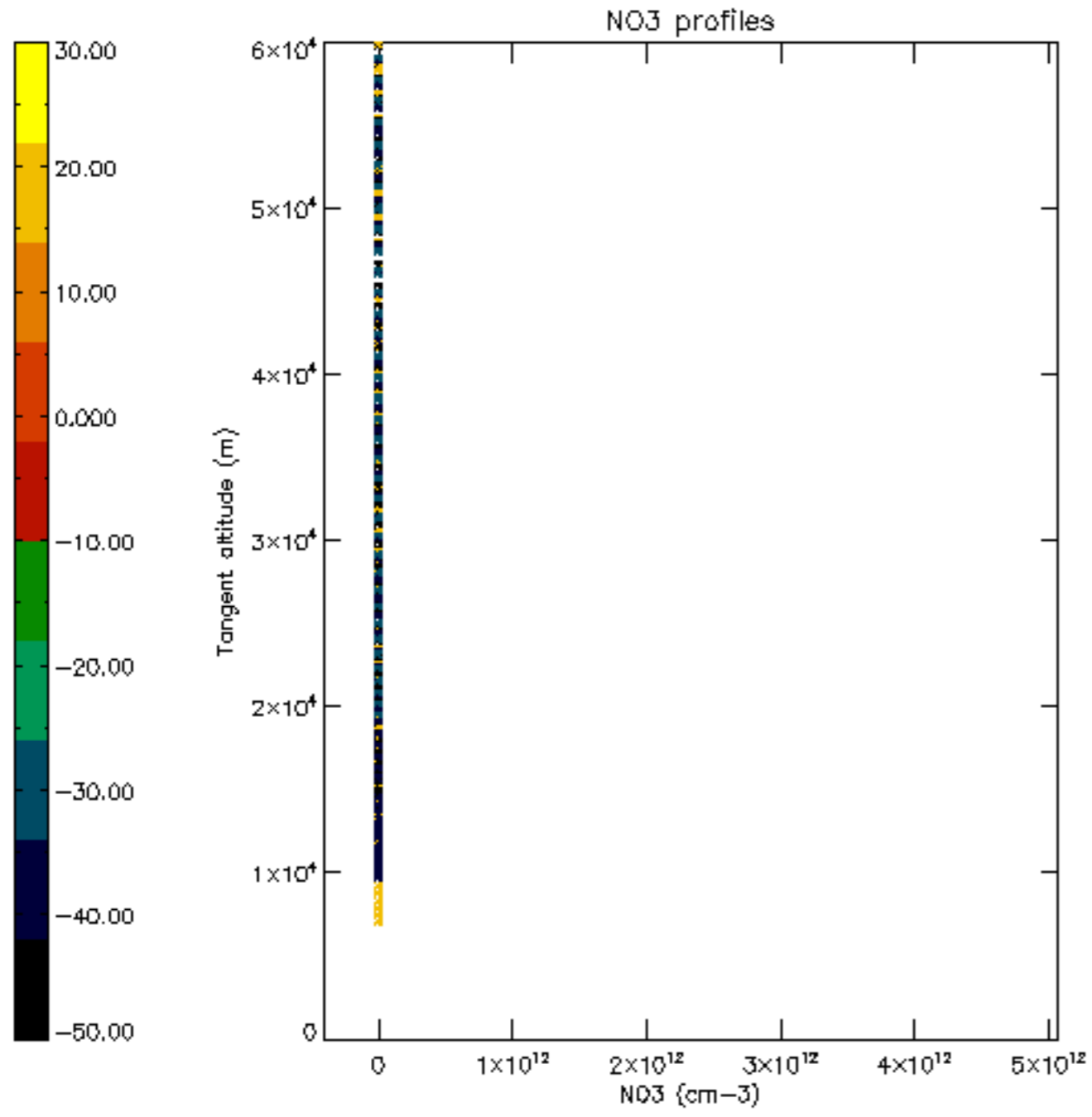




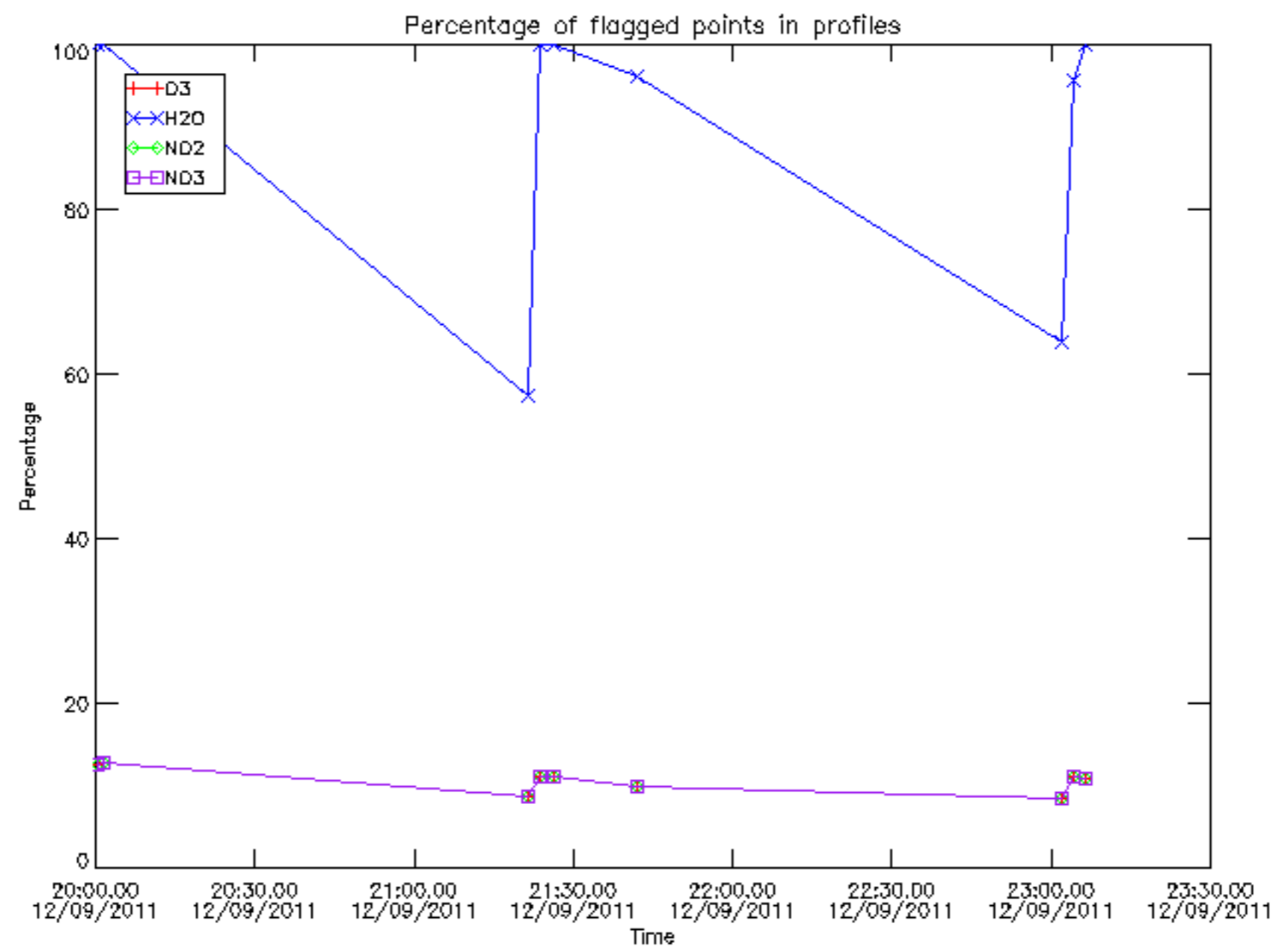




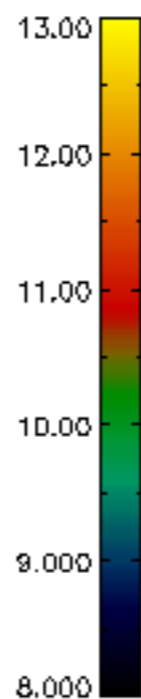
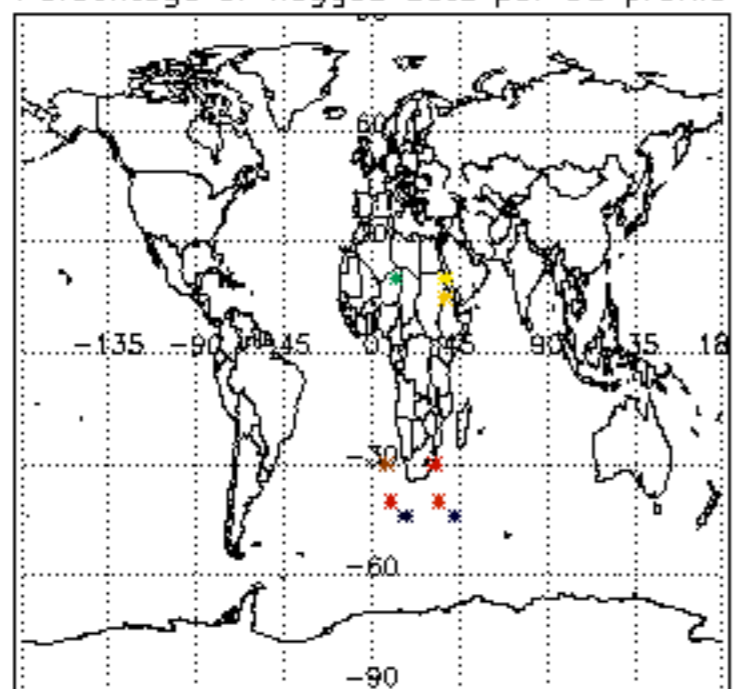




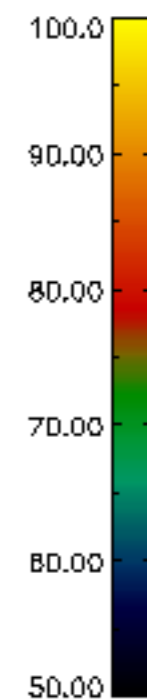
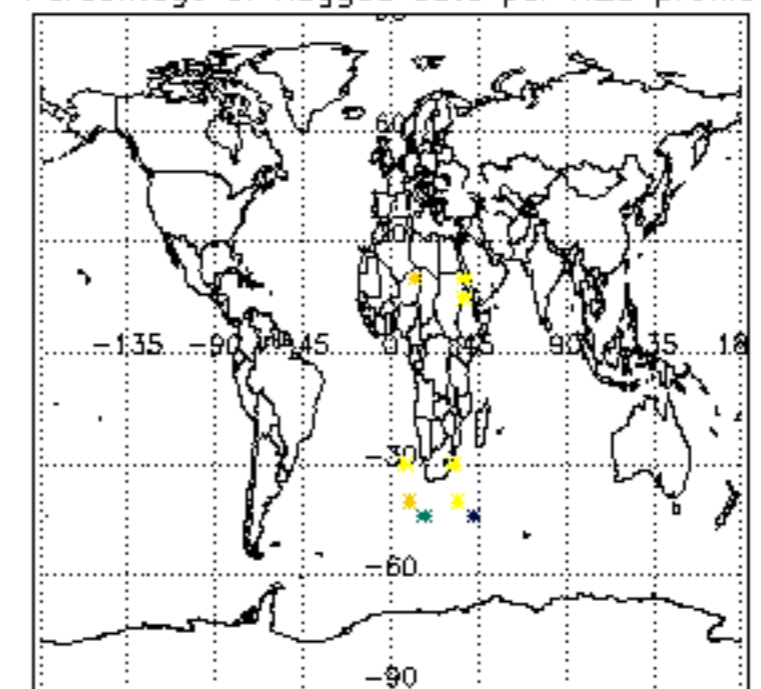




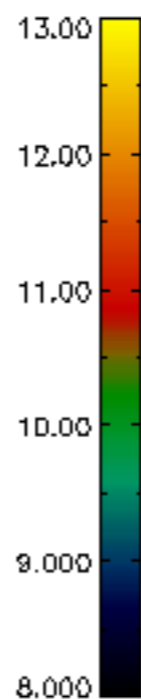
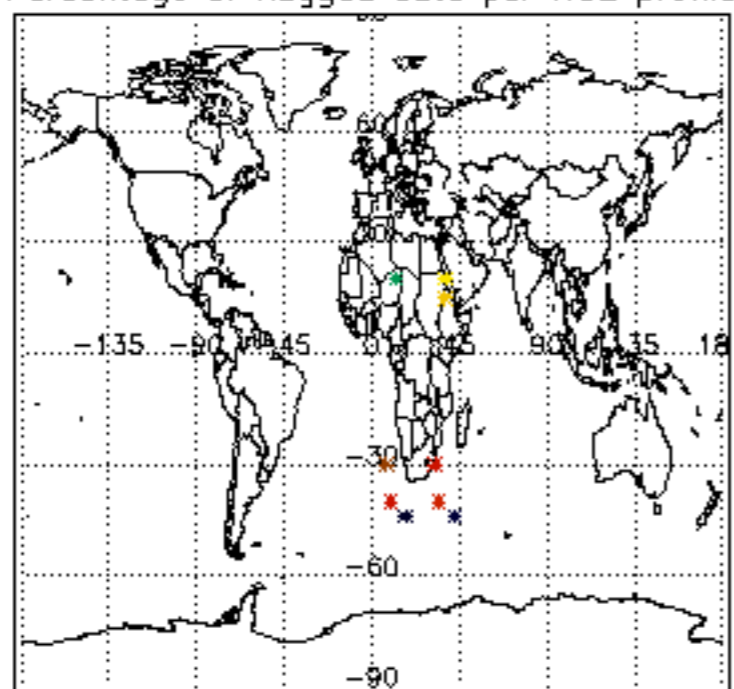
Percentage of flagged data per D3 profile



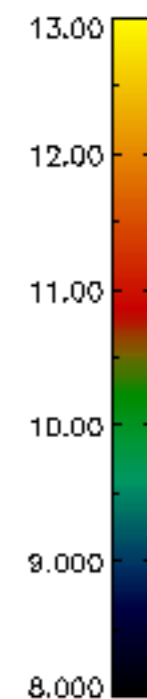
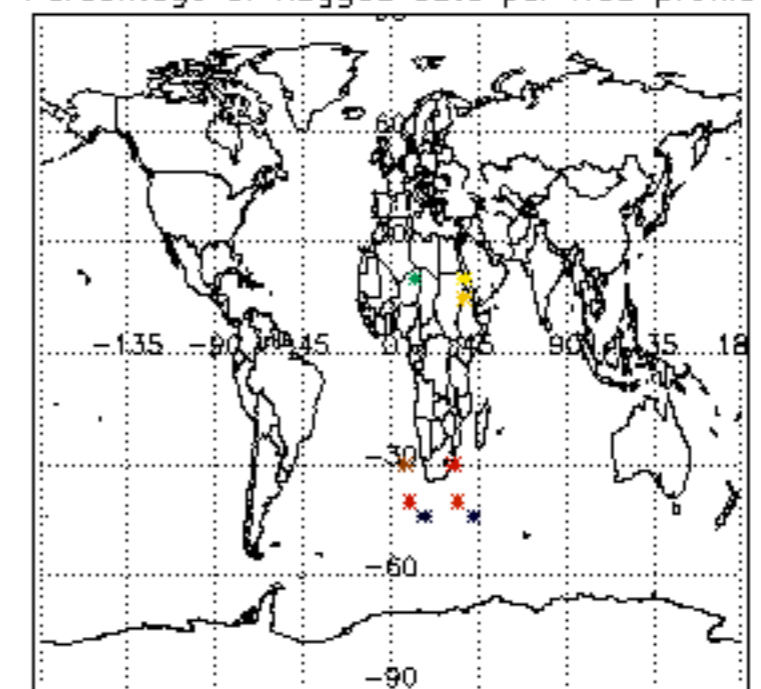
Percentage of flagged data per H2O profile

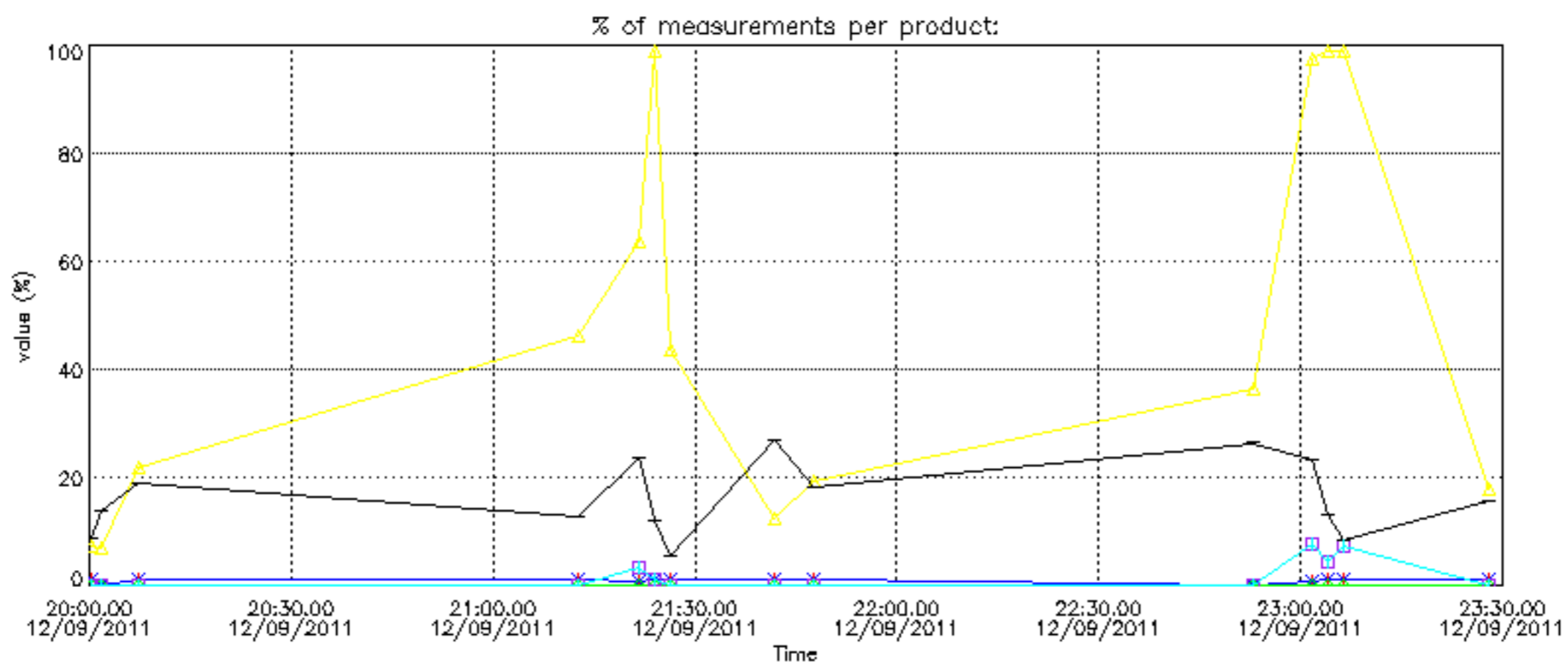
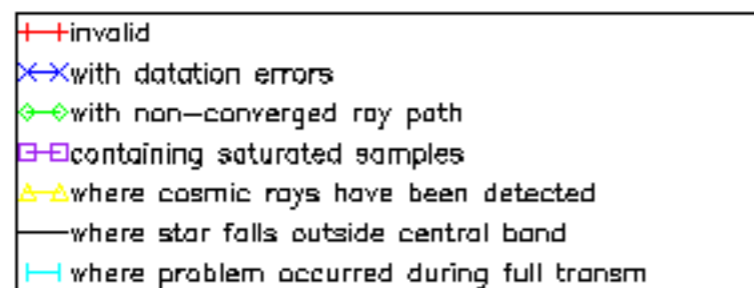


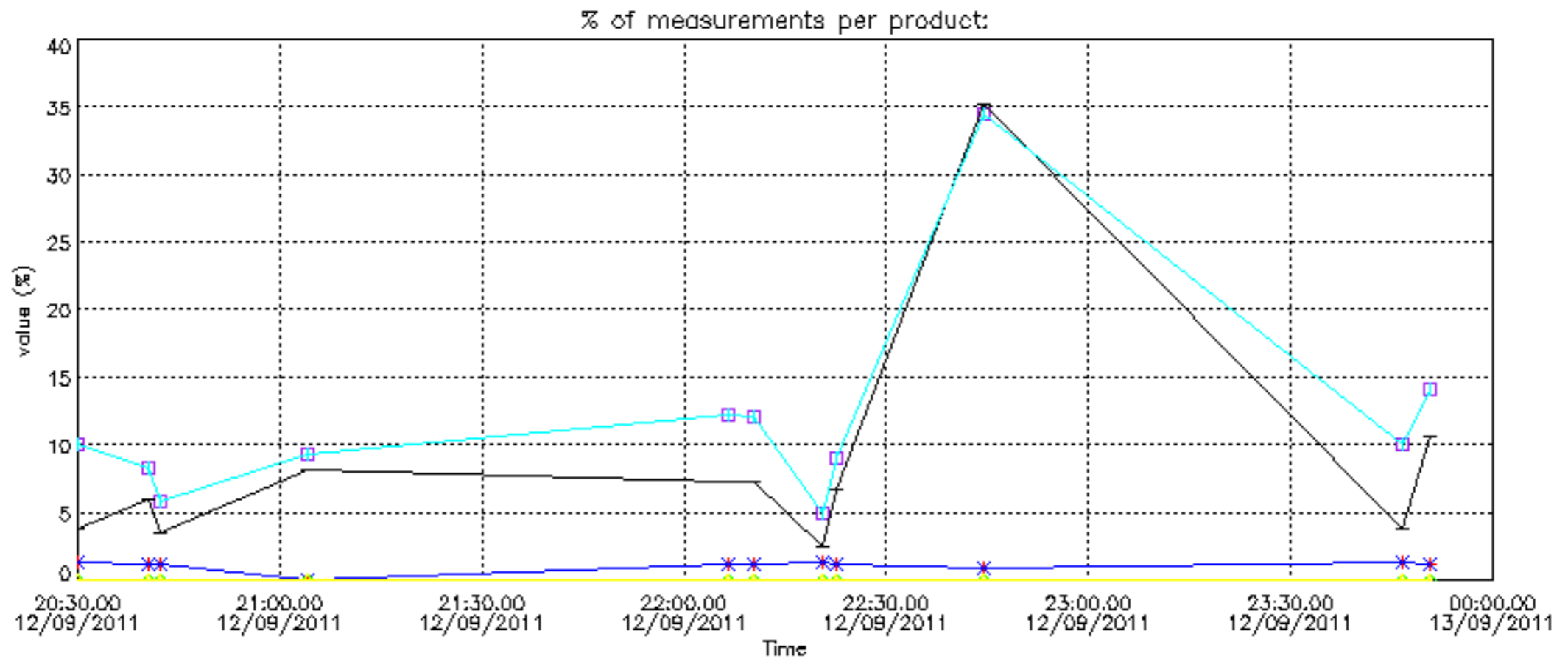
Percentage of flagged data per NO2 profile



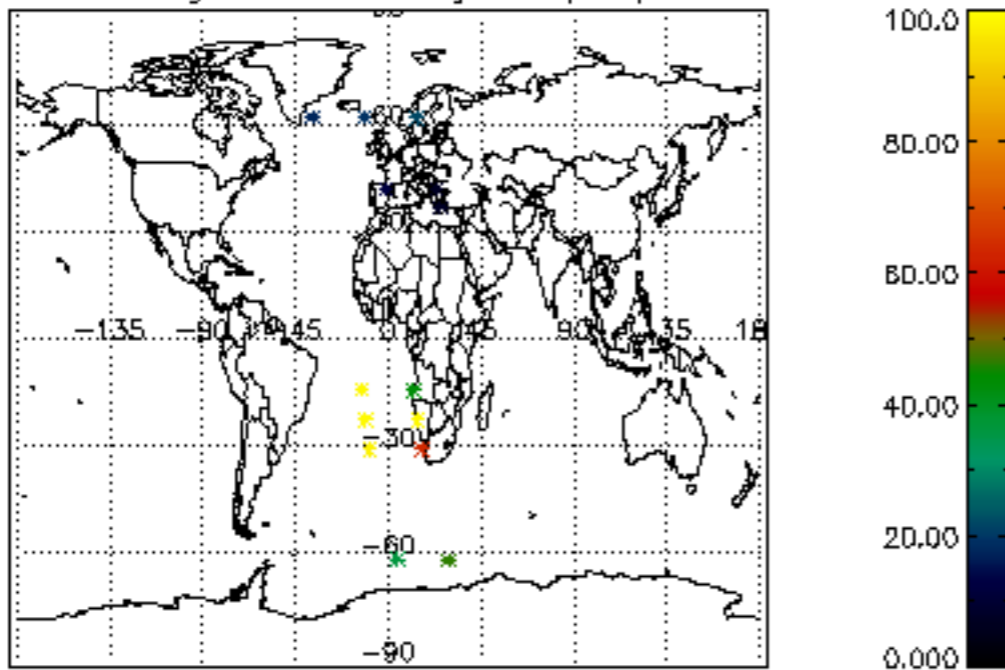
Percentage of flagged data per NO3 profile



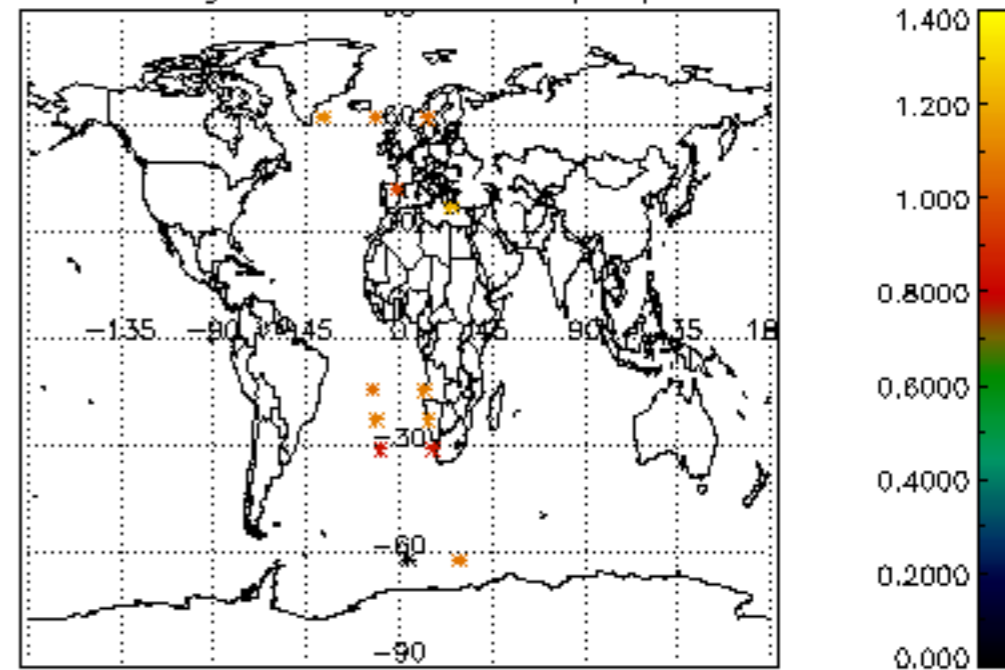




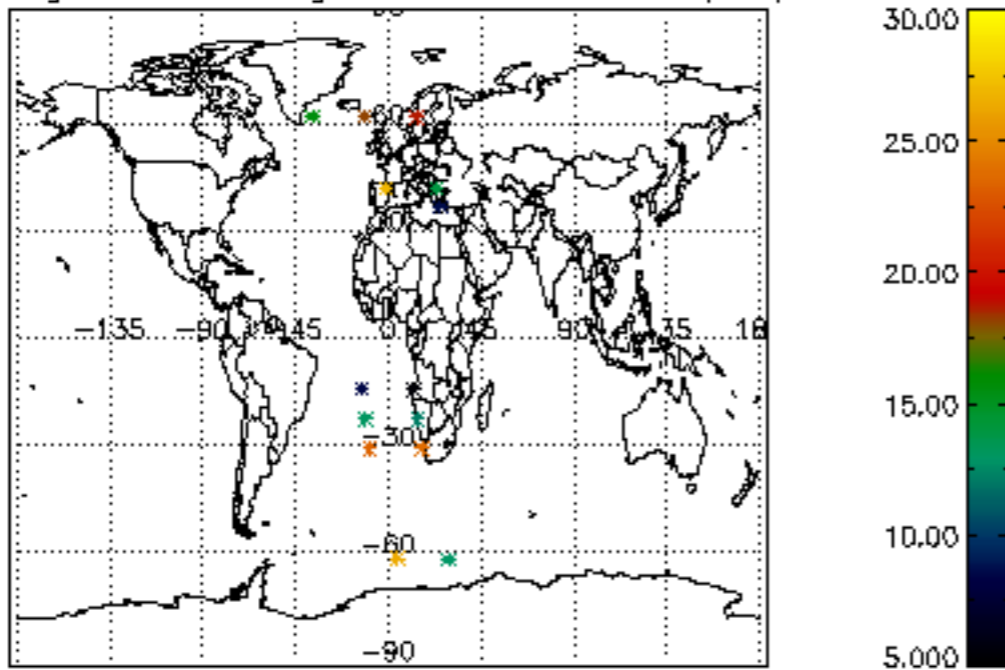
Percentage of cosmic ray hits per profile



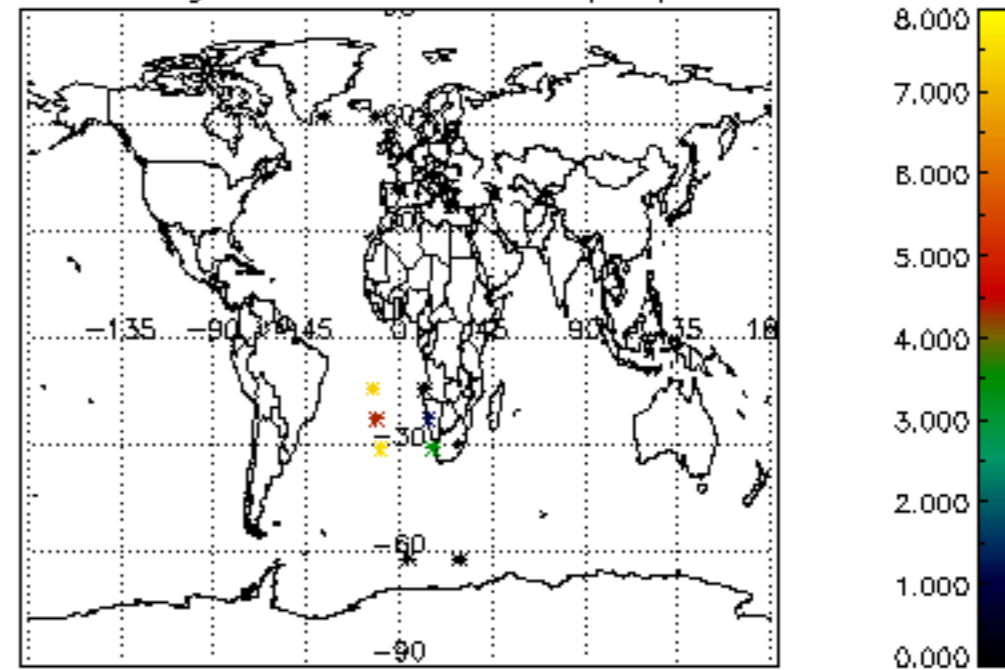
Percentage of datation errors per profile



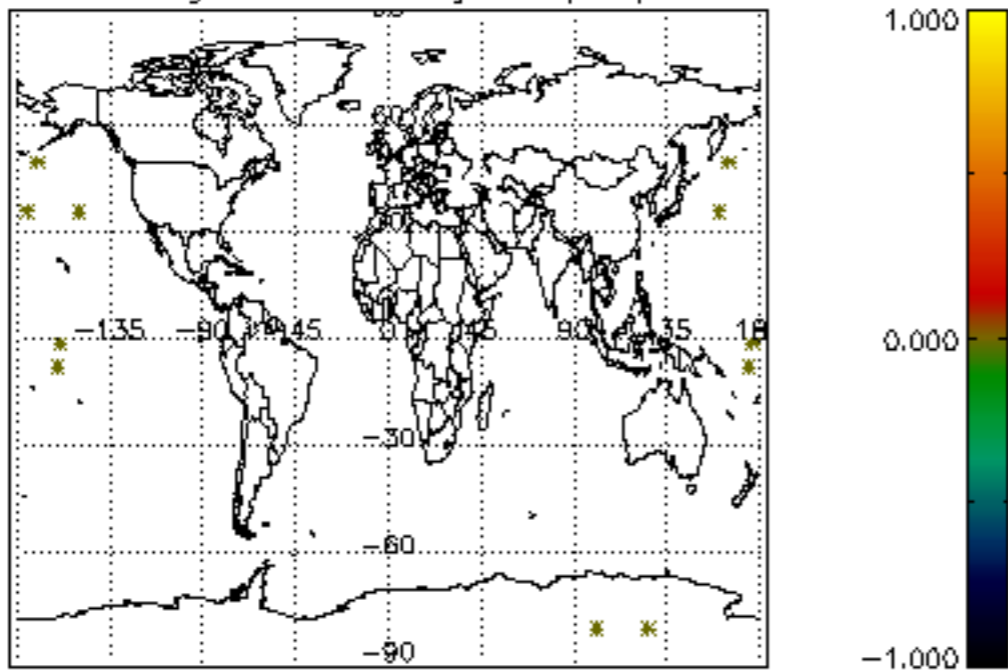
Percentage of star falling outside central band per profile



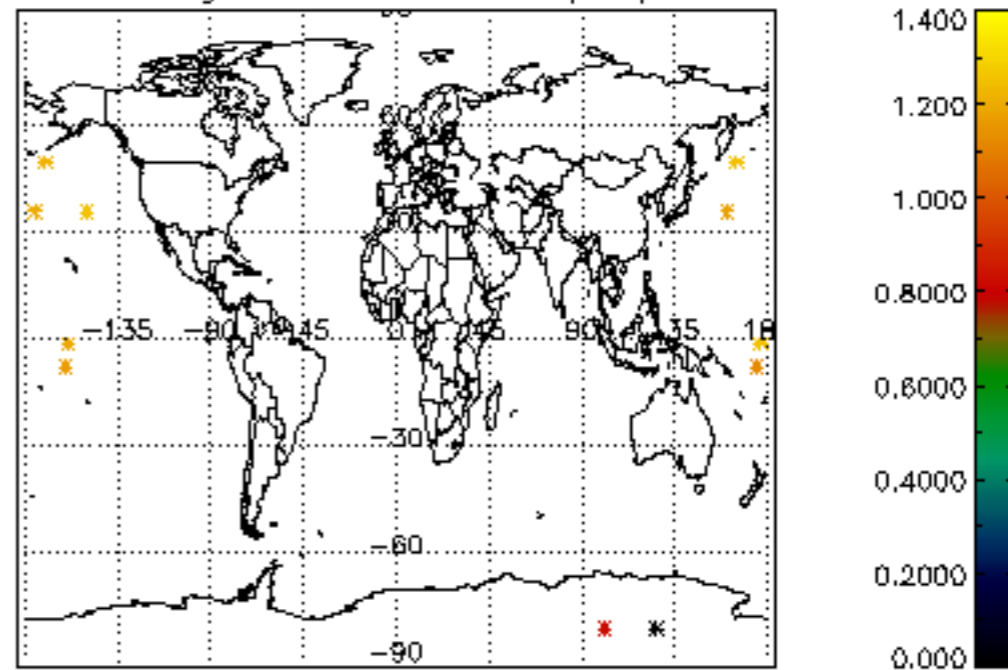
Percentage of saturation errors per profile



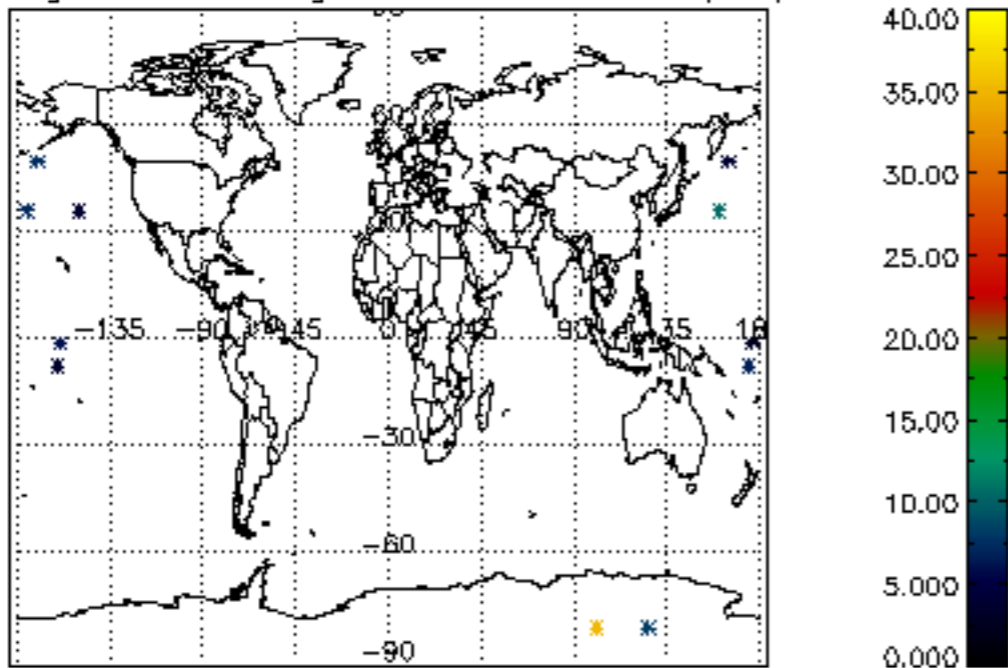
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

