

# GOMOS Level 2 Daily Report

## SUMMARY

### [1. General Info](#)

### [2. Summary of processed GOM\\_NL\\_2P products](#)

### [3. Level 2 Quality information per product](#)

#### [3.1 Plot of level 2 quality information per product \(time dependant\)](#)

#### [3.2 Plot of level 2 quality information per product \(world map\)](#)

### [4. Level 1 Quality information per product \(stored on level 2 products\)](#)

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

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

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

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

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

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

### [5. Ozone profiles based on quality statistics and other trace gas profiles](#)

#### [5.1 Ozone statistics based on quality of products](#)

#### [5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

#### [5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

#### [5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

#### [5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

#### [5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

#### [5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

#### [5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

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















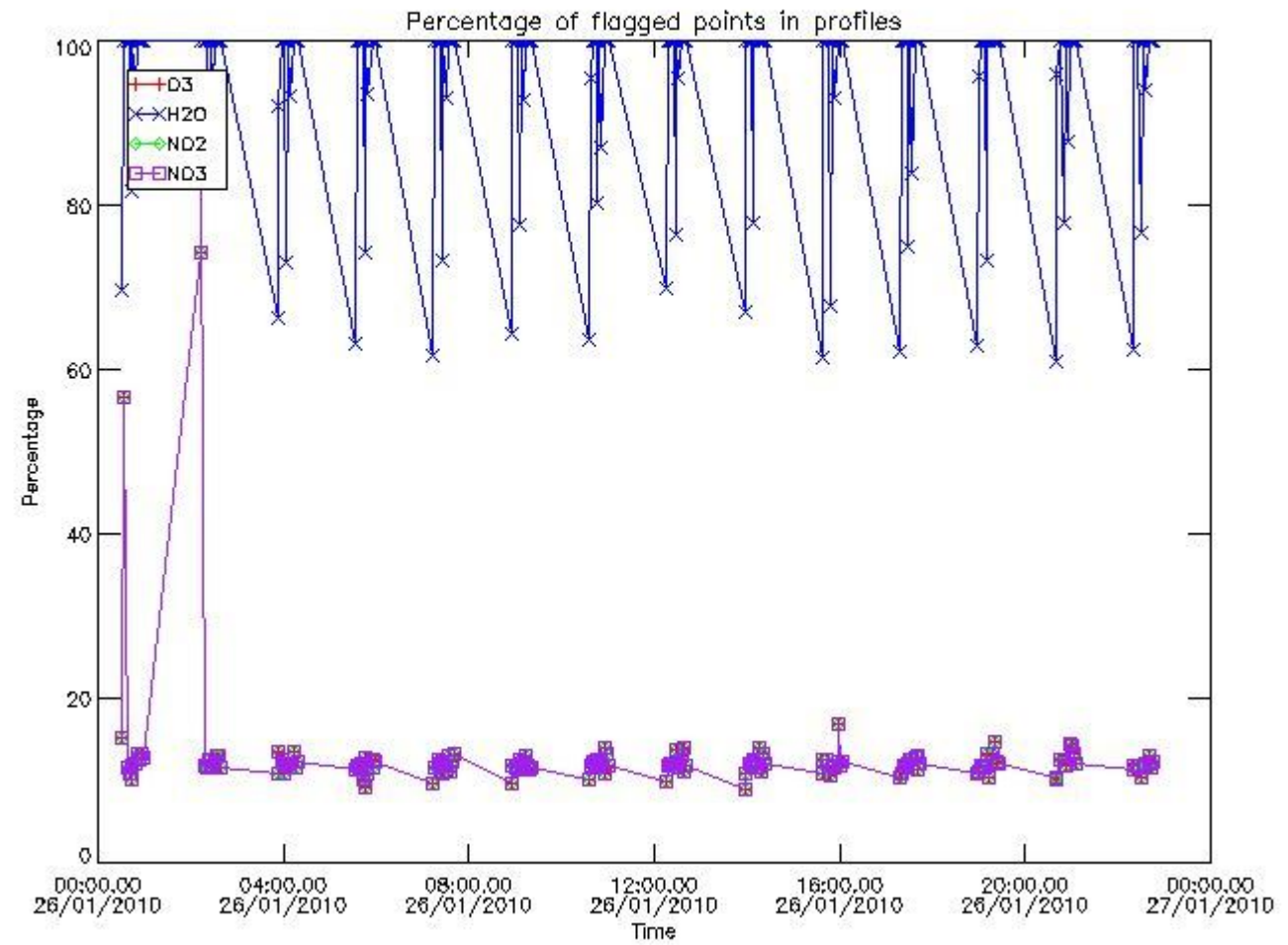


397	GOM_NL__2PRFIN20100126_220709_000000352086_00215_41351_2100.N1	26-JAN-2010 22:07:09	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	41351	No
398	GOM_NL__2PRFIN20100126_220916_000000352086_00215_41351_2101.N1	26-JAN-2010 22:09:16	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	41351	No
399	GOM_NL__2PRFIN20100126_221359_000000542086_00215_41351_2102.N1	26-JAN-2010 22:13:59	Tw_i_and_stray	54.000	120	1Del Oph	2.7340	3200.0	108	41351	No
400	GOM_NL__2PRFIN20100126_221533_000000402086_00215_41351_2103.N1	26-JAN-2010 22:15:33	Tw_i_and_stray	40.000	86	35Eta Oph	2.4300	10200.	80	41351	No
401	GOM_NL__2PRFIN20100126_221937_000000542086_00215_41351_2104.N1	26-JAN-2010 22:19:37	Dark	53.500	16	21Alp Sco	1.0200	3000.0	107	41351	No
402	GOM_NL__2PRFIN20100126_222059_000000482086_00215_41351_2105.N1	26-JAN-2010 22:20:59	Dark	47.500	75	26Eps Sco	2.2910	4250.0	95	41351	No
403	GOM_NL__2PRFIN20100126_222516_000000432086_00215_41351_2106.N1	26-JAN-2010 22:25:16	Dark	43.000	131	Gam Lup	2.8000	26000.	86	41351	No
404	GOM_NL__2PRFIN20100126_223044_000000542086_00216_41352_2087.N1	26-JAN-2010 22:30:44	Dark	54.000	4	Alp1Cen	-0.010000	5800.0	108	41352	No
405	GOM_NL__2PRFIN20100126_223222_000000442086_00216_41352_2088.N1	26-JAN-2010 22:32:22	Dark	44.000	77	Eps Cen	2.3030	28000.	88	41352	No
406	GOM_NL__2PRFIN20100126_223518_000000432086_00216_41352_2089.N1	26-JAN-2010 22:35:18	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	41352	No
407	GOM_NL__2PRFIN20100126_223931_000000422086_00216_41352_2090.N1	26-JAN-2010 22:39:31	Dark	42.000	159	Ups Car	2.9200	7200.0	84	41352	No
408	GOM_NL__2PRFIN20100126_224126_000000392086_00216_41352_2091.N1	26-JAN-2010 22:41:26	Dark	39.000	71	lot Car	2.2460	7700.0	78	41352	No
409	GOM_NL__2PRFIN20100126_224313_000000452086_00216_41352_2092.N1	26-JAN-2010 22:43:13	Dark	44.500	46	Del Vel	1.9540	10600.	89	41352	No
410	GOM_NL__2PRFIN20100126_224548_000000422086_00216_41352_2093.N1	26-JAN-2010 22:45:48	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	41352	No
411	GOM_NL__2PRFIN20100126_224754_000000412086_00216_41352_2094.N1	26-JAN-2010 22:47:54	Straylight	41.000	70	Zet Pup	2.2460	39000.	82	41352	No
412	GOM_NL__2PRFIN20100126_225126_000000402086_00216_41352_2095.N1	26-JAN-2010 22:51:26	Straylight	40.000	88	31Eta CMa	2.4480	20000.	80	41352	No
413	GOM_NL__2PRFIN20100126_225312_000000382086_00216_41352_2096.N1	26-JAN-2010 22:53:12	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	41352	No
414	GOM_NL__2PRFIN20100126_230121_000000492086_00216_41352_2097.N1	26-JAN-2010 23:01:21	Tw_i_and_stray	48.500	8	10Alp CMi	0.40000	6500.0	97	41352	No
415	GOM_NL__2PRFIN20100126_230438_000000412086_00216_41352_2098.N1	26-JAN-2010 23:04:38	Bright	40.500	44	24Gam Gem	1.9280	11000.	81	41352	No
416	GOM_NL__2PRFIN20100126_230626_000000402086_00216_41352_2099.N1	26-JAN-2010 23:06:26	Bright	39.500	151	13Mu Gem	2.8900	3000.0	79	41352	No
417	GOM_NL__2PRFIN20100126_230815_000000442086_00216_41352_2100.N1	26-JAN-2010 23:08:15	Bright	43.500	17	78Bet Gem	1.1610	4500.0	87	41352	No
418	GOM_NL__2PRFIN20100126_231248_000000352086_00216_41352_2101.N1	26-JAN-2010 23:12:48	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	41352	No
419	GOM_NL__2PRFIN20100126_232515_000000342086_00216_41352_2102.N1	26-JAN-2010 23:25:15	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	41352	No
420	GOM_NL__2PRFIN20100126_232838_000000382086_00216_41352_2103.N1	26-JAN-2010 23:28:38	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	41352	No
421	GOM_NL__2PRFIN20100126_233315_000000412086_00216_41352_2104.N1	26-JAN-2010 23:33:15	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	41352	No
422	GOM_NL__2PRFIN20100126_233614_000000422086_00216_41352_2105.N1	26-JAN-2010 23:36:14	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	41352	No
423	GOM_NL__2PRFIN20100126_234244_000000592086_00216_41352_2106.N1	26-JAN-2010 23:42:44	Bright	59.000	133	40Zet Her	2.8070	6000.0	118	41352	No
424	GOM_NL__2PRFIN20100126_234609_000000612086_00216_41352_2107.N1	26-JAN-2010 23:46:09	Bright	61.000	127	27Bet Her	2.7810	4700.0	122	41352	No
425	GOM_NL__2PRFIN20100126_234745_000000352086_00216_41352_2108.N1	26-JAN-2010 23:47:45	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	41352	No
426	GOM_NL__2PRFIN20100126_234952_000000522086_00216_41352_2109.N1	26-JAN-2010 23:49:52	Bright	52.000	126	60Bet Oph	2.7700	4250.0	104	41352	No
427	GOM_NL__2PRFIN20100126_235435_000000542086_00216_41352_2110.N1	26-JAN-2010 23:54:35	Tw_i_and_stray	54.000	120	1Del Oph	2.7340	3200.0	108	41352	No
428	GOM_NL__2PRFIN20100126_235609_000000412086_00216_41352_2111.N1	26-JAN-2010 23:56:09	Tw_i_and_stray	40.500	86	35Eta Oph	2.4300	10200.	81	41352	No

### 3. Quality information per product

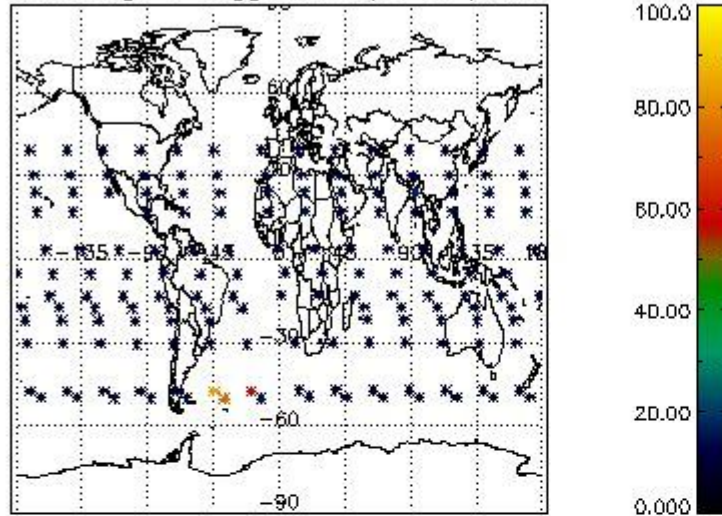
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

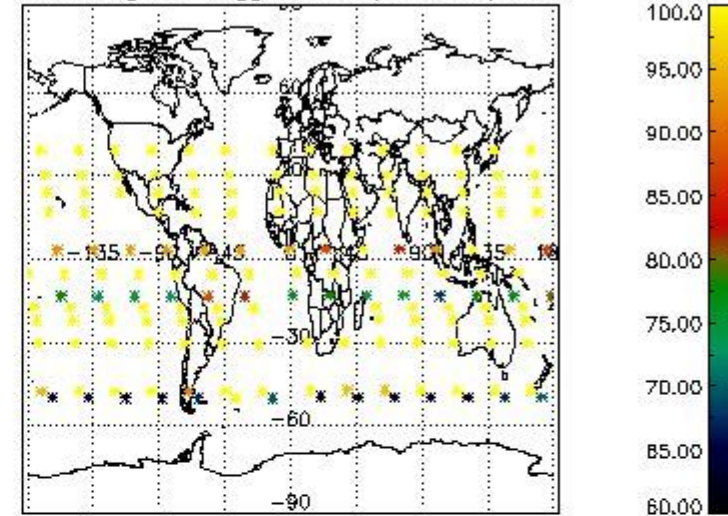


3.2 Plot quality information per product (world map)

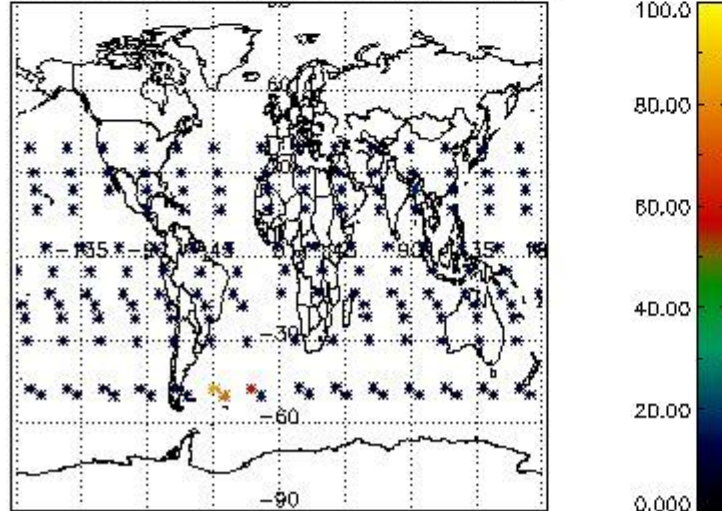
Percentage of flagged data per O3 profile



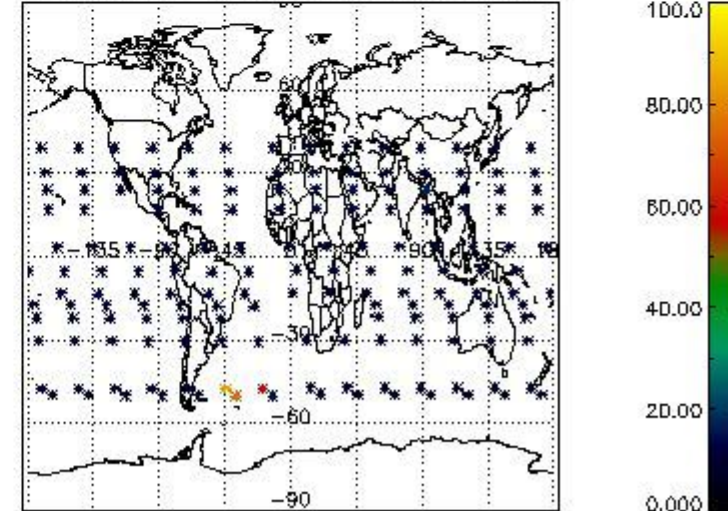
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

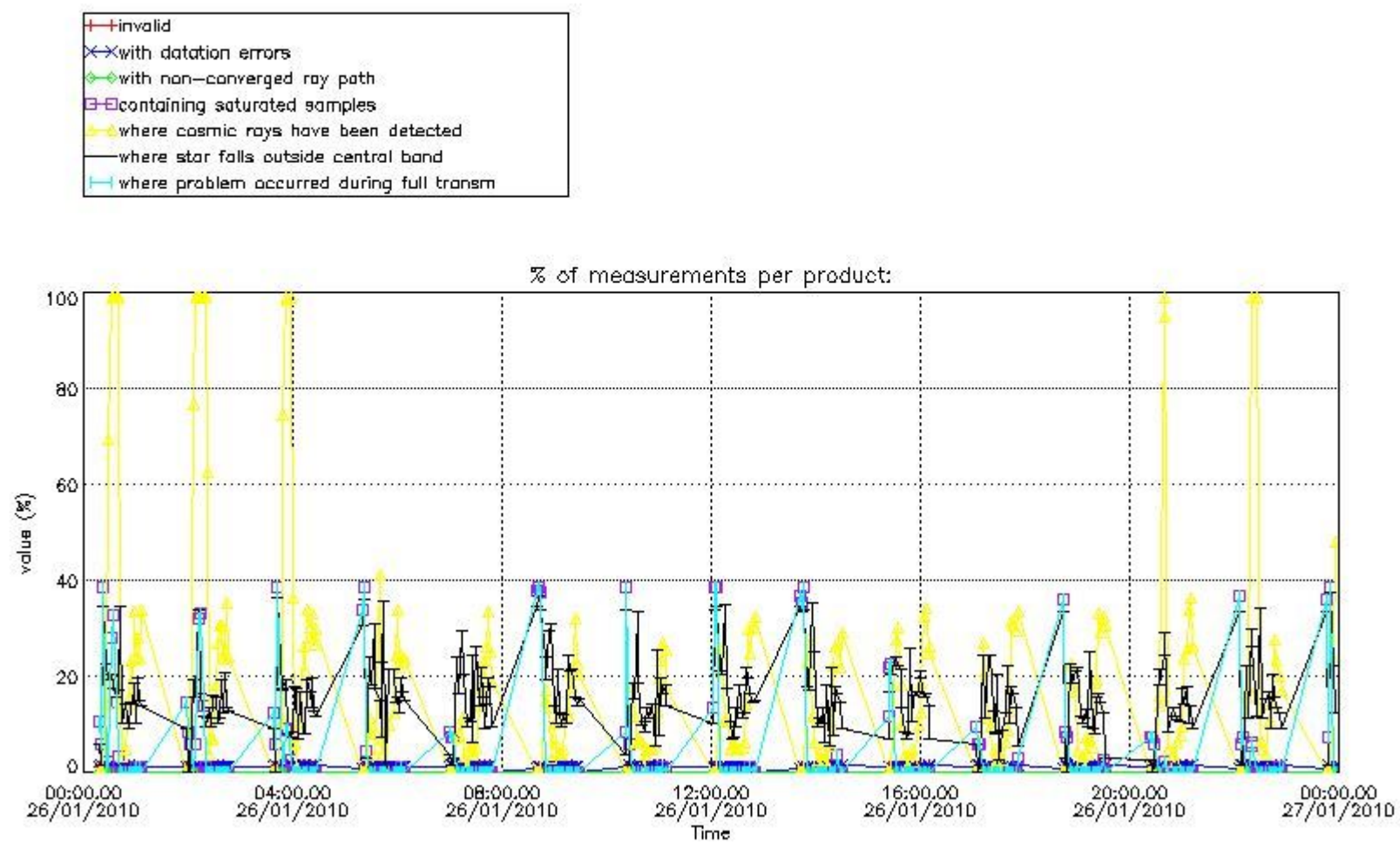


#### 4. Level 1 quality information per product

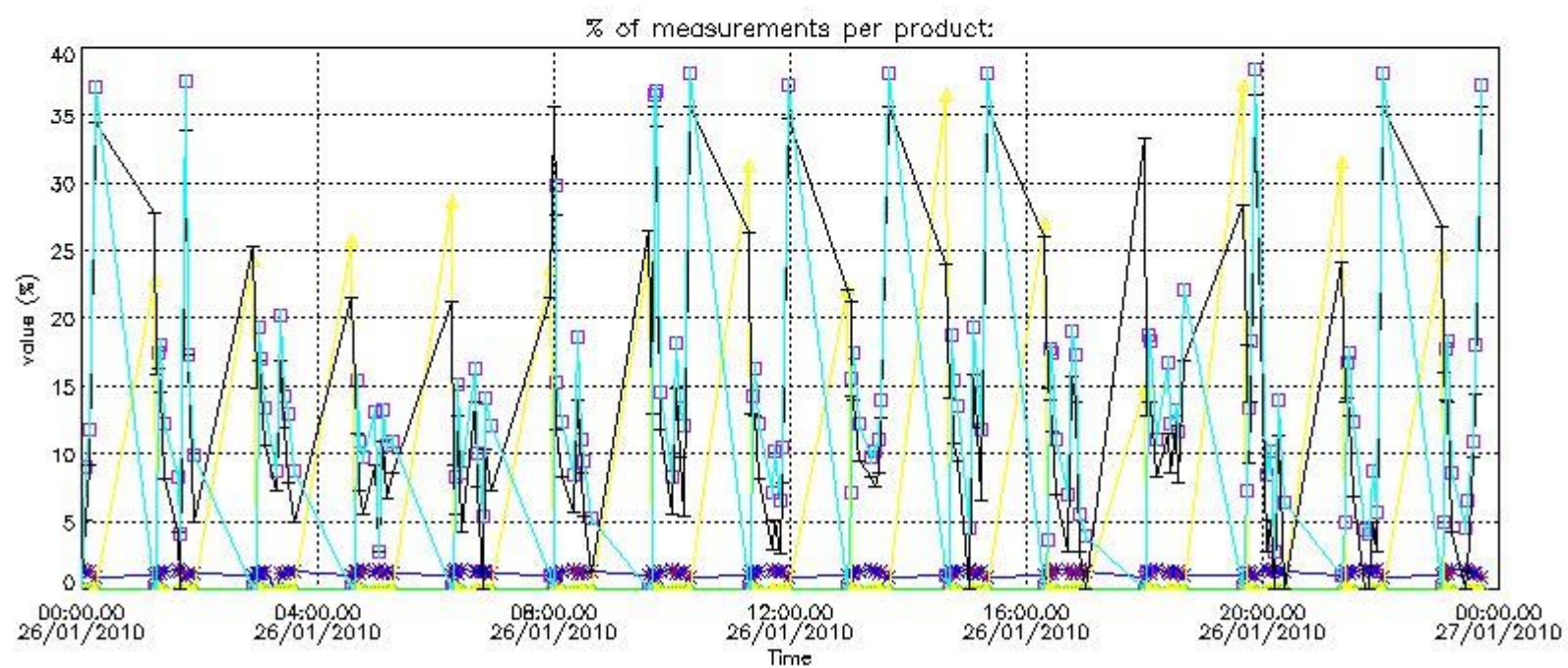
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

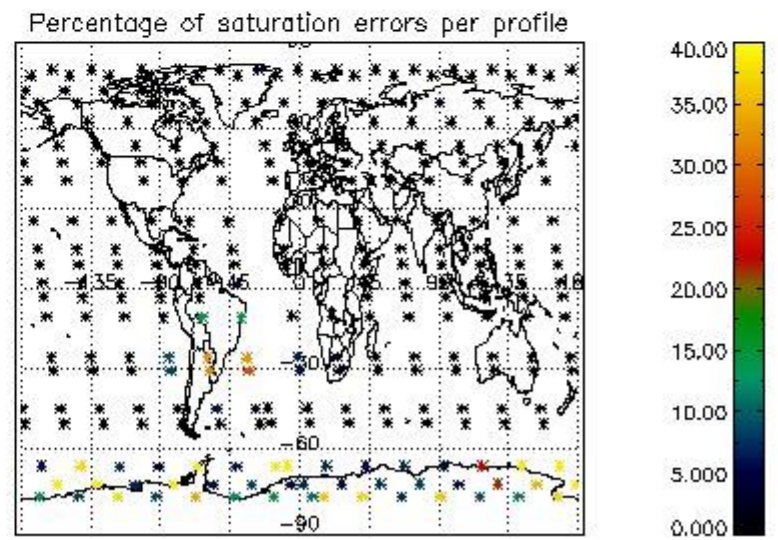
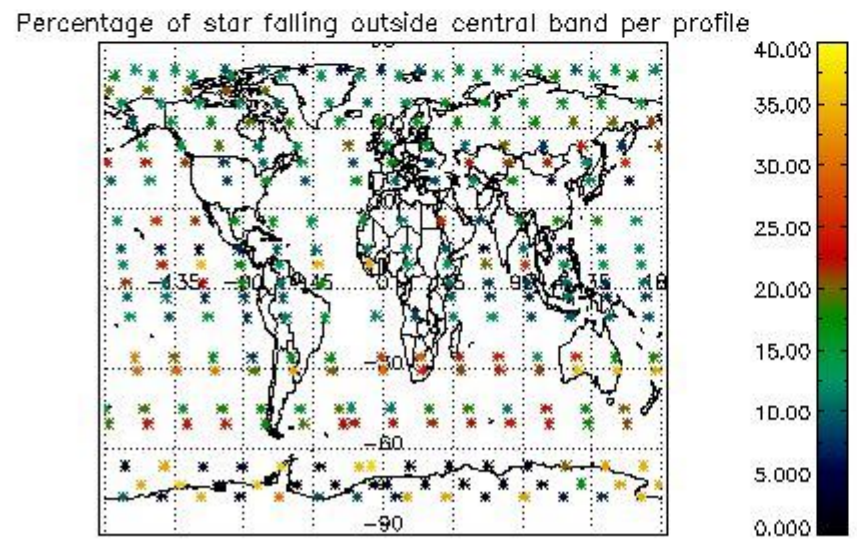
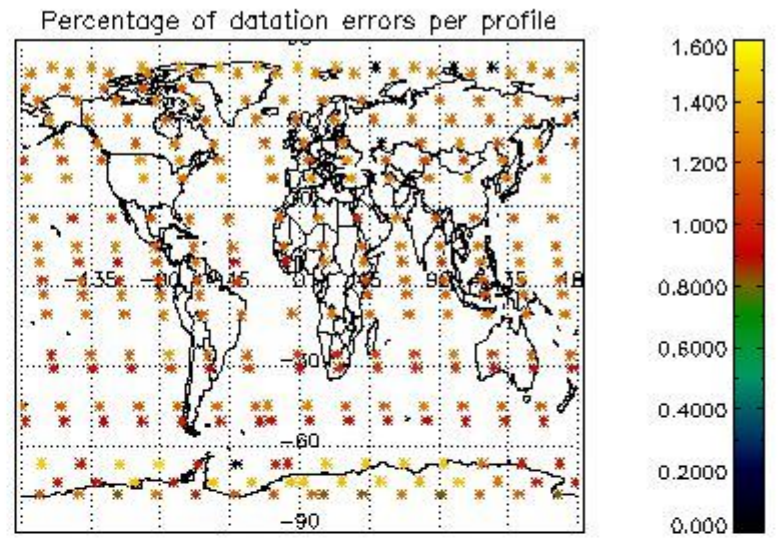
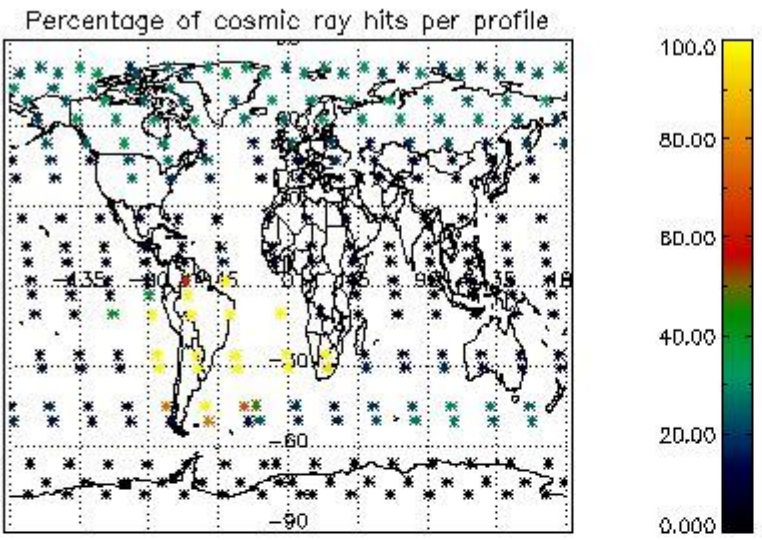


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

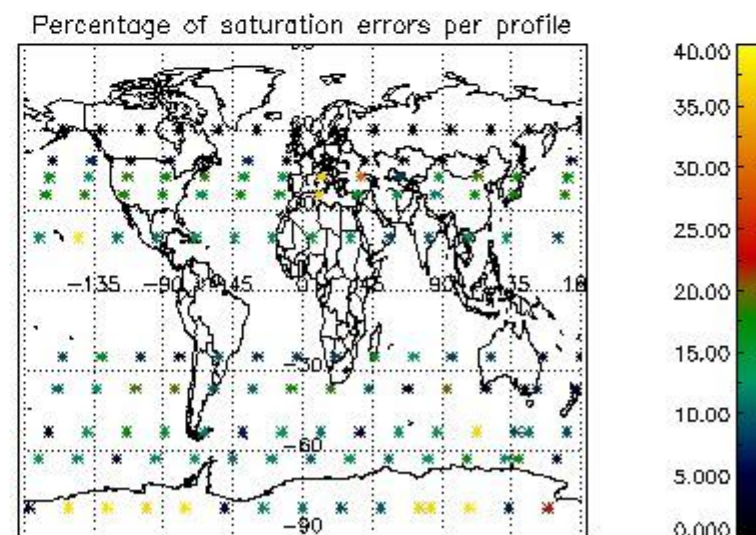
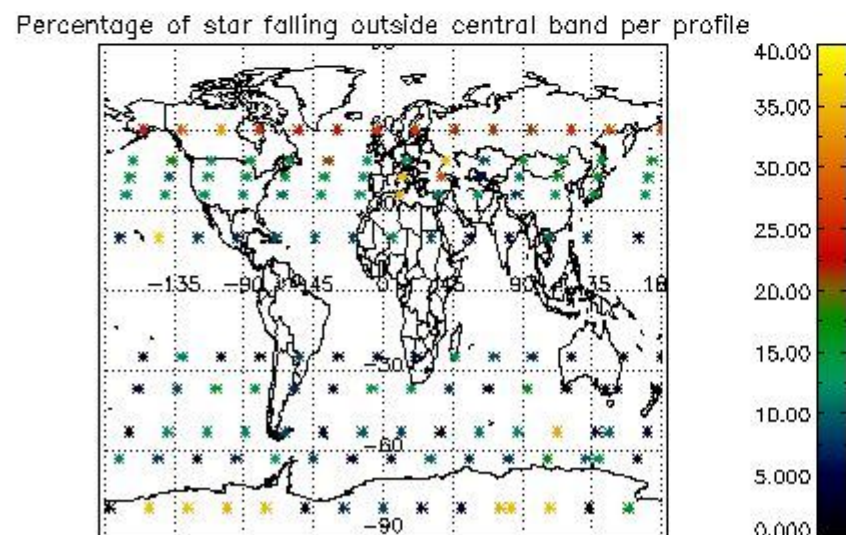
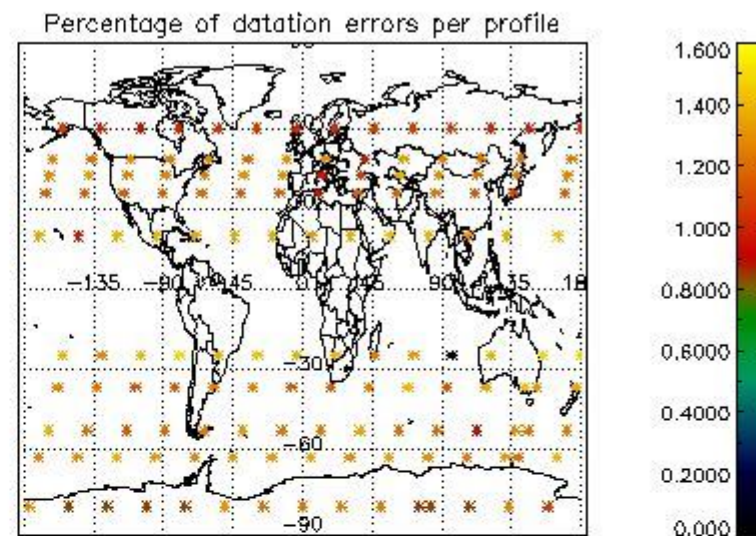
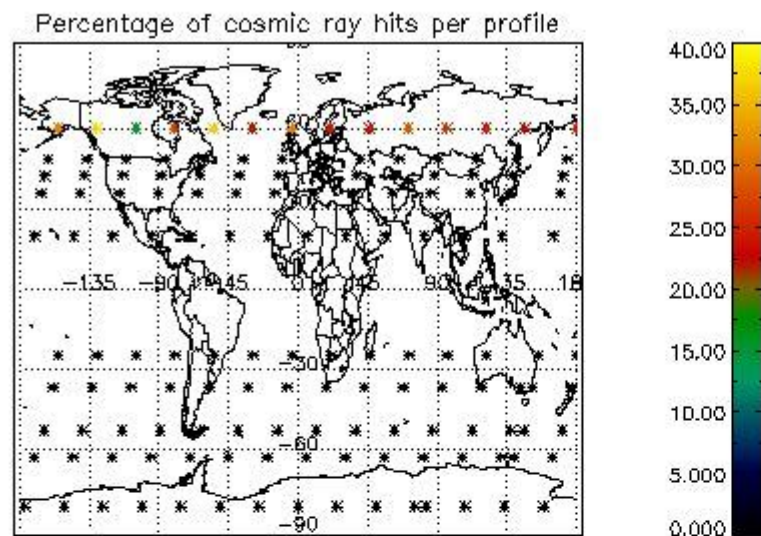


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

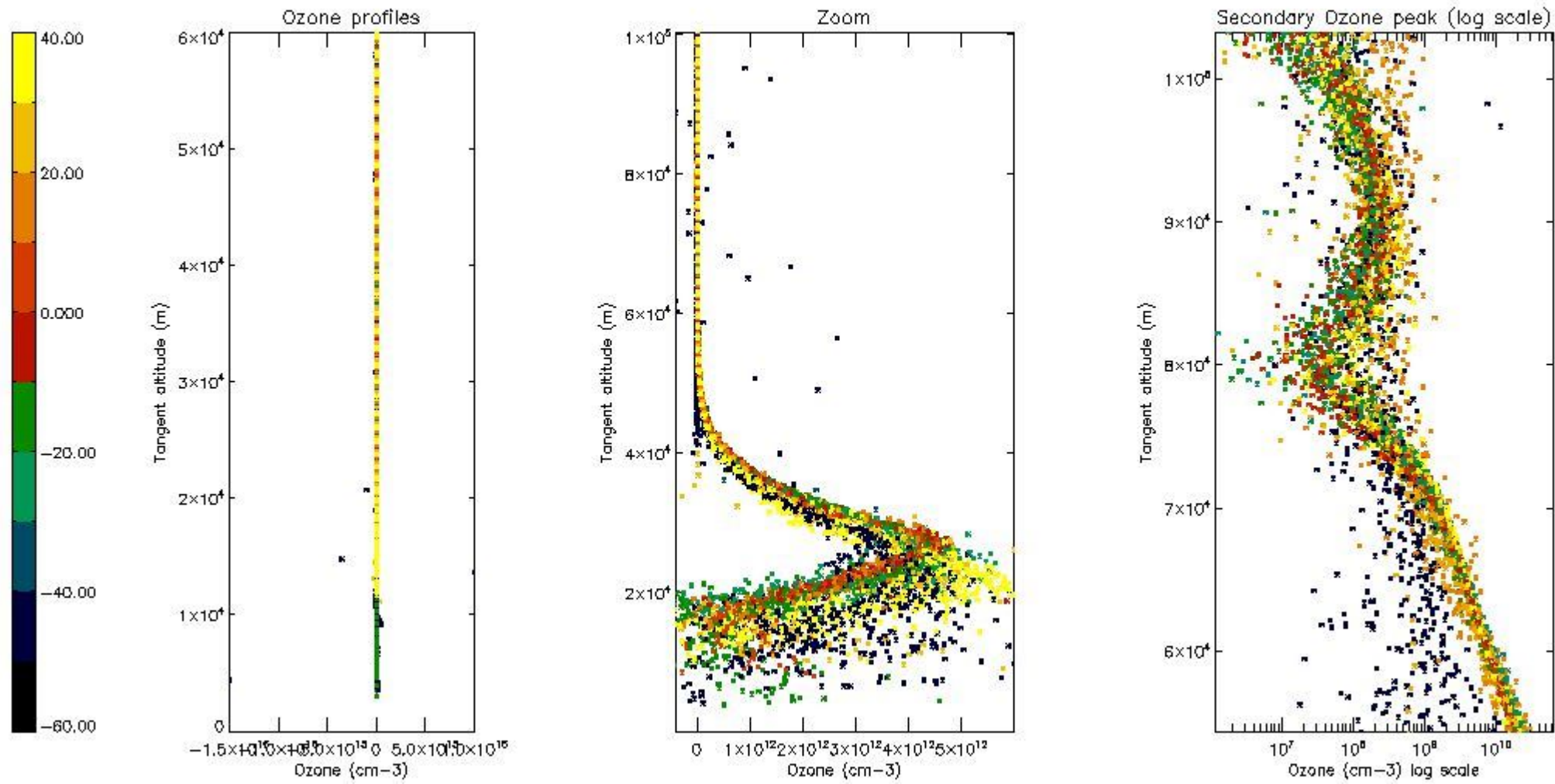
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	15
STD < 5	10

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

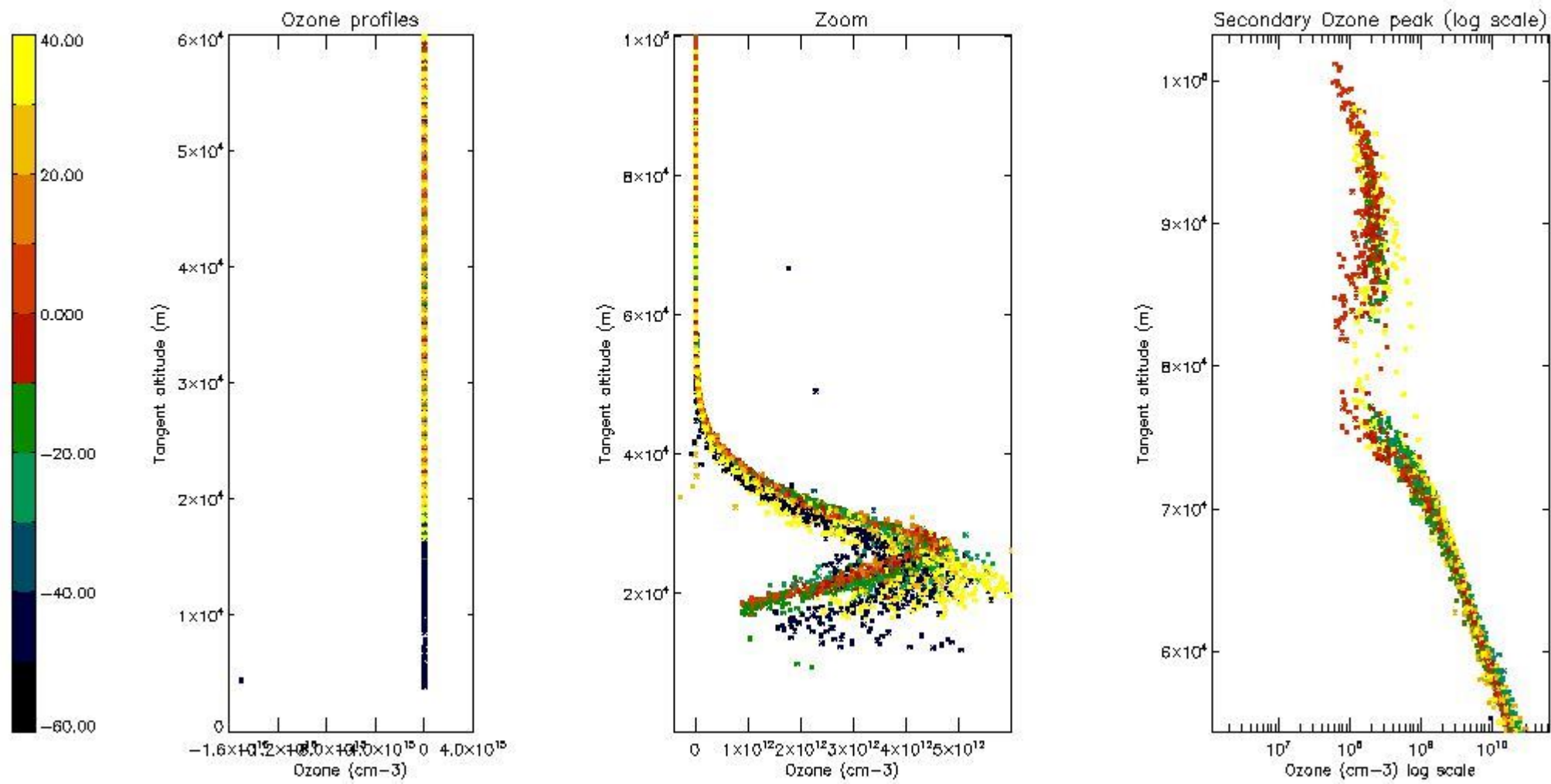
The colorbar represents the latitude.



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

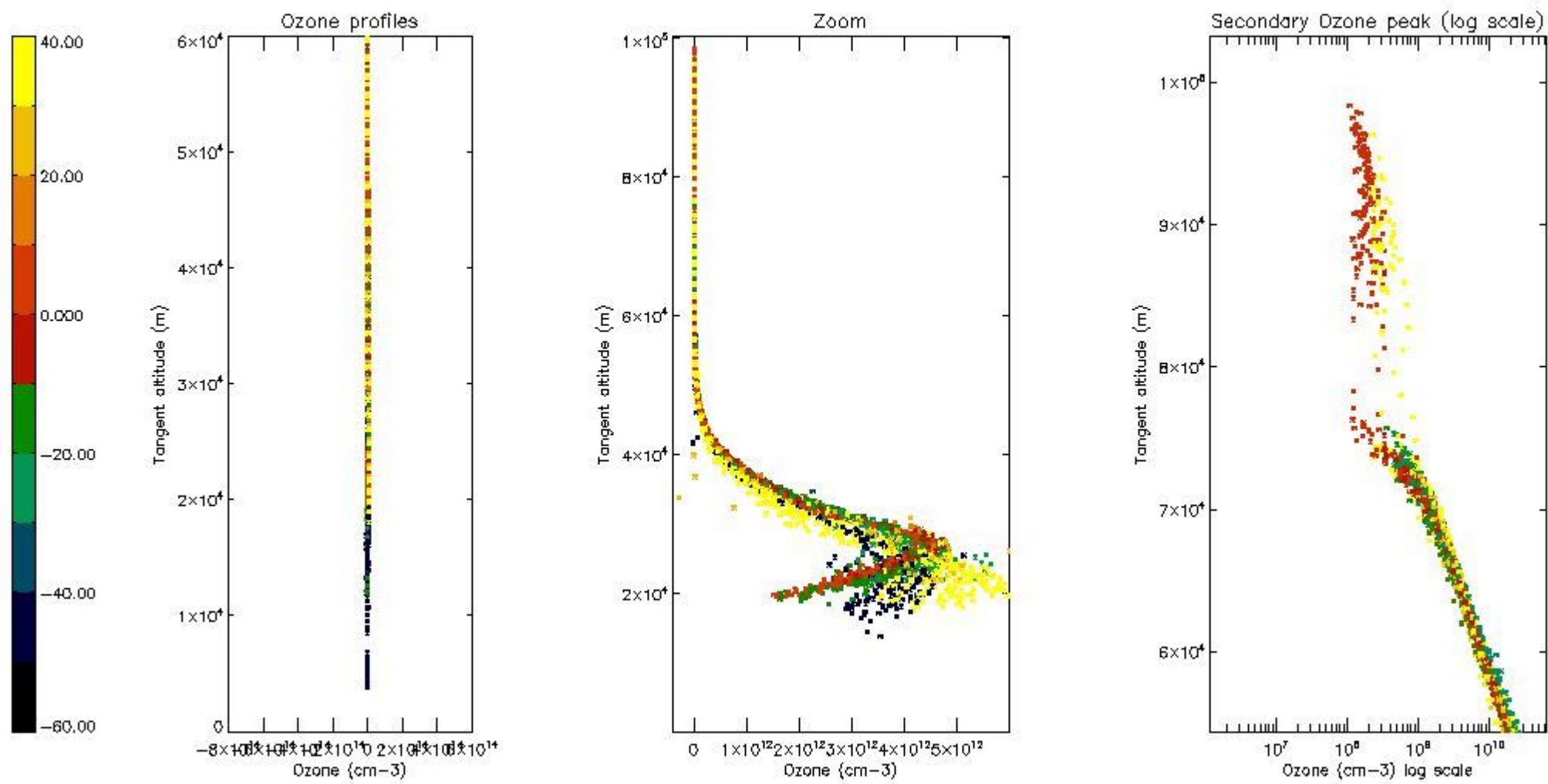
The colorbar represents the latitude.





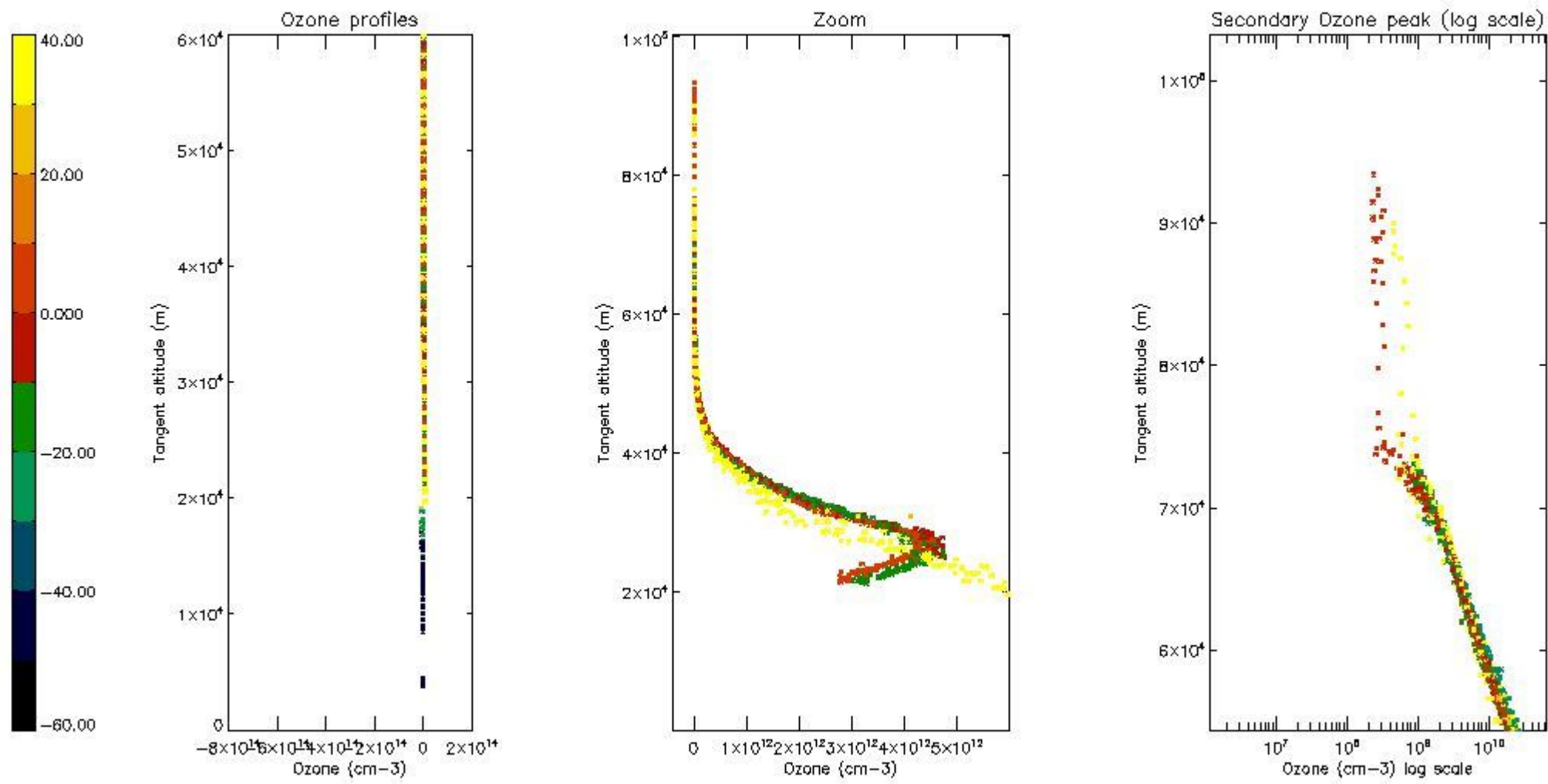
5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)

The colorbar represents the latitude.



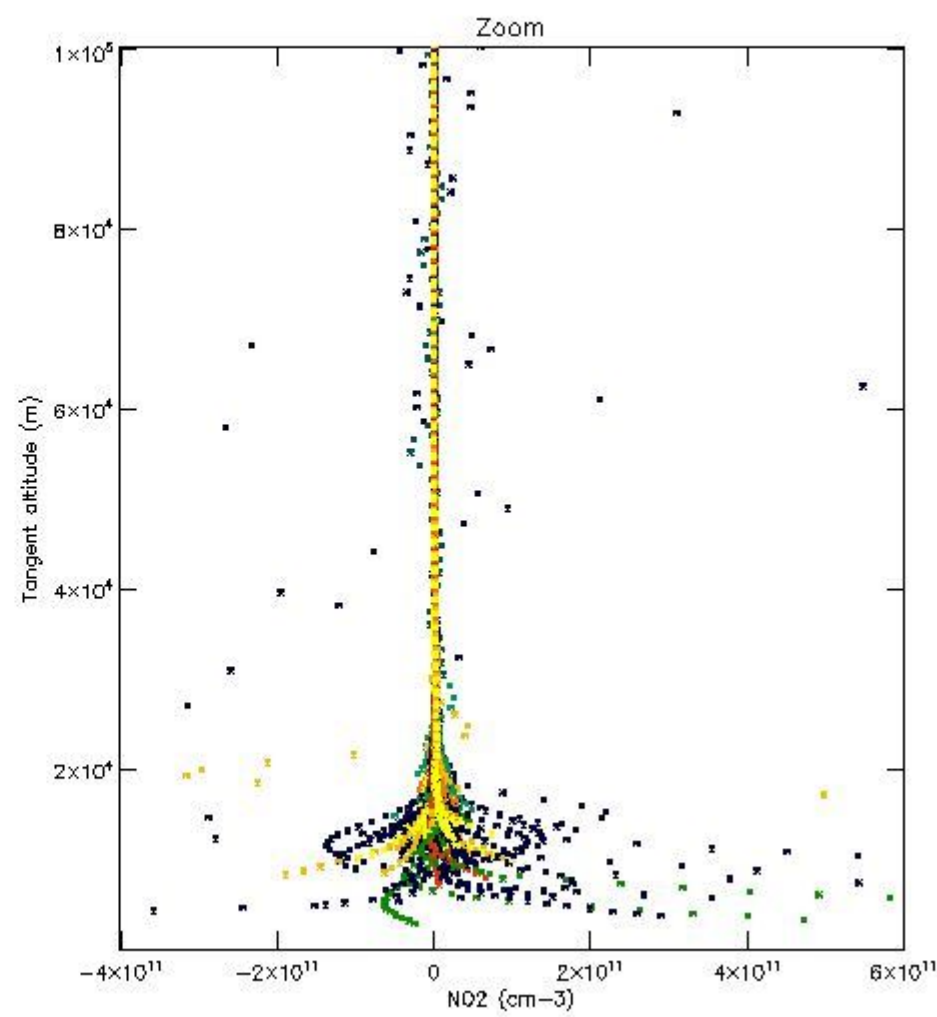
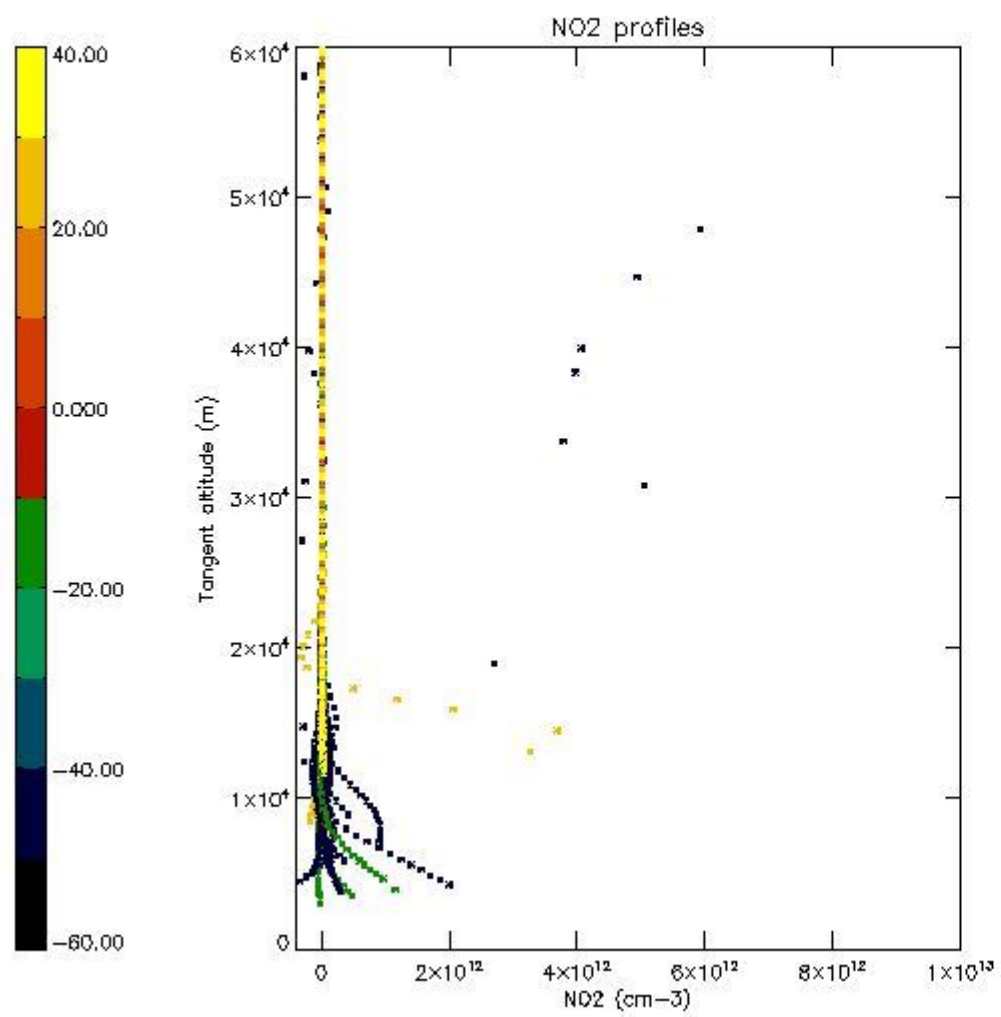
*5.5 Plot ozone profiles where  $STD < 5\%$  (dark without errors)*

The colorbar represents the latitude.



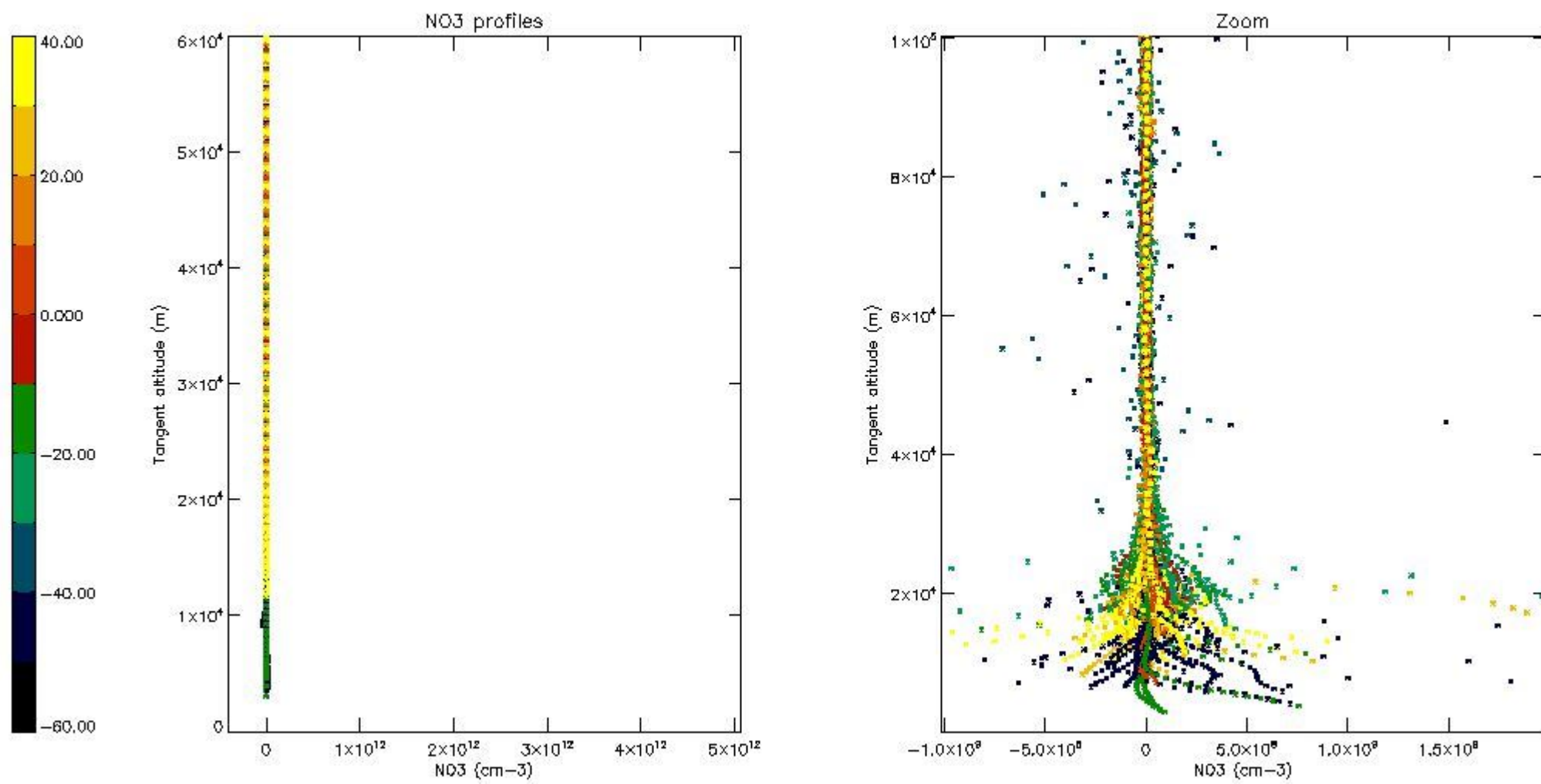
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



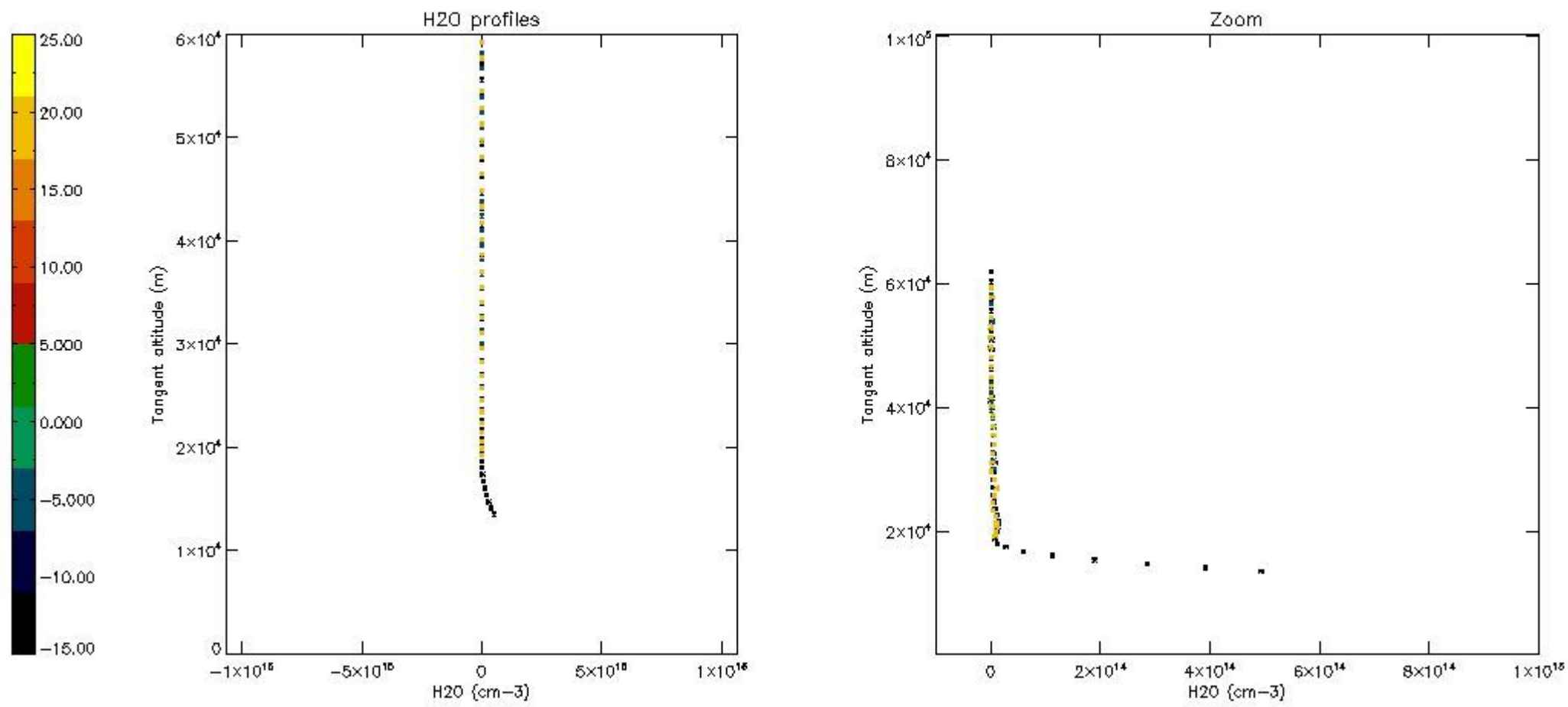
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot H2O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-JAN-2010 00:00:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-JAN-2010 00:00:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-JAN-2010 00:00:18

# GOMOS Level 2 Daily Report

## SUMMARY

### [1. General Info](#)

### [2. Summary of processed GOM\\_NL\\_2P products](#)

### [3. Level 2 Quality information per product](#)

#### [3.1 Plot of level 2 quality information per product \(time dependant\)](#)

#### [3.2 Plot of level 2 quality information per product \(world map\)](#)

### [4. Level 1 Quality information per product \(stored on level 2 products\)](#)

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

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

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

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

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

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

### [5. Ozone profiles based on quality statistics and other trace gas profiles](#)

#### [5.1 Ozone statistics based on quality of products](#)

#### [5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

#### [5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

#### [5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

#### [5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

#### [5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

#### [5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

#### [5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

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















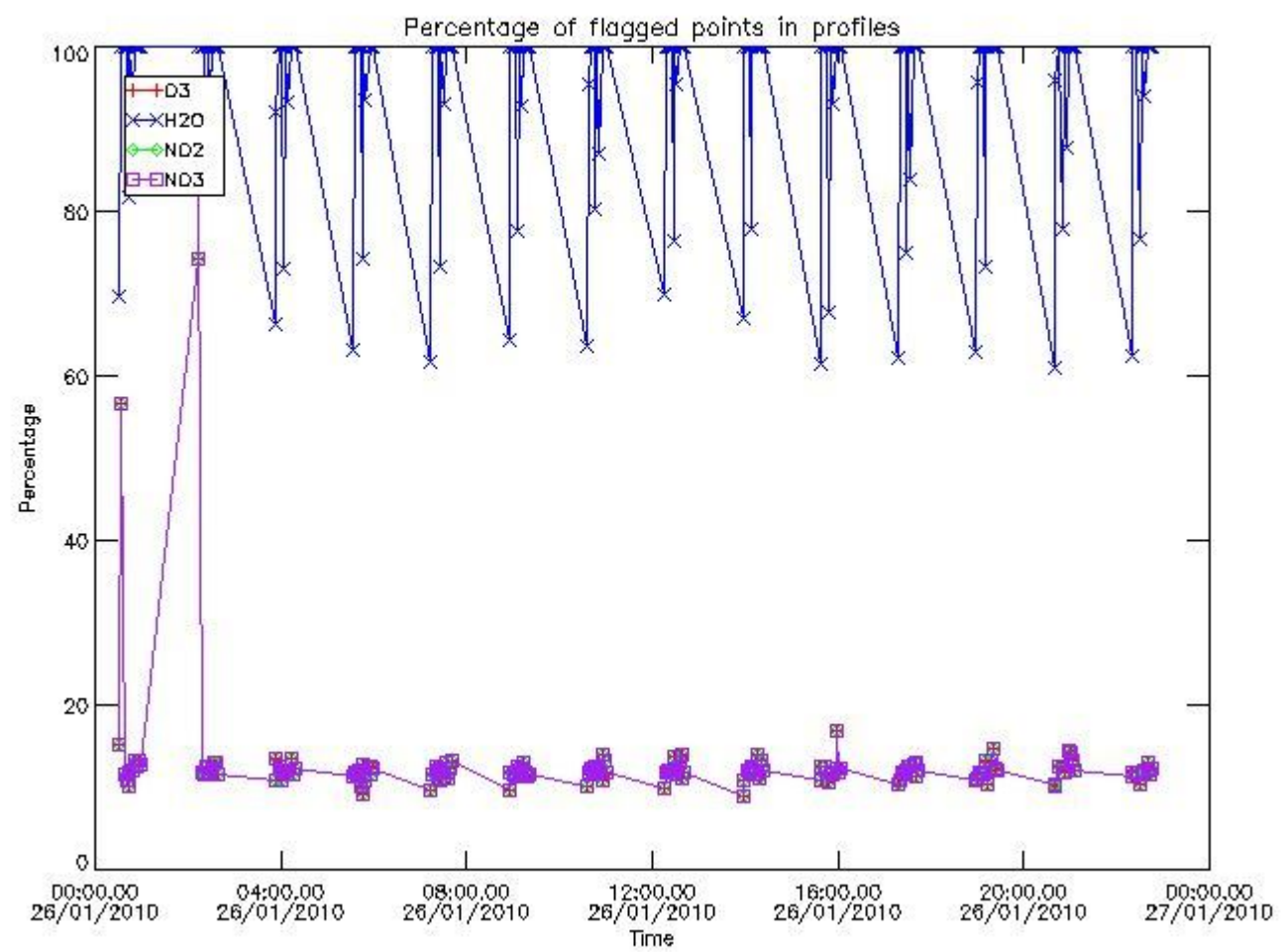


397	GOM_NL__2PRFIN20100126_220709_000000352086_00215_41351_2100.N1	26-JAN-2010 22:07:09	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	41351	No
398	GOM_NL__2PRFIN20100126_220916_000000352086_00215_41351_2101.N1	26-JAN-2010 22:09:16	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	41351	No
399	GOM_NL__2PRFIN20100126_221359_000000542086_00215_41351_2102.N1	26-JAN-2010 22:13:59	Twilight	54.000	120	1Del Oph	2.7340	3200.0	108	41351	No
400	GOM_NL__2PRFIN20100126_221533_000000402086_00215_41351_2103.N1	26-JAN-2010 22:15:33	Twilight	40.000	86	35Eta Oph	2.4300	10200.	80	41351	No
401	GOM_NL__2PRFIN20100126_221937_000000542086_00215_41351_2104.N1	26-JAN-2010 22:19:37	Dark	53.500	16	21Alp Sco	1.0200	3000.0	107	41351	No
402	GOM_NL__2PRFIN20100126_222059_000000482086_00215_41351_2105.N1	26-JAN-2010 22:20:59	Dark	47.500	75	26Eps Sco	2.2910	4250.0	95	41351	No
403	GOM_NL__2PRFIN20100126_222516_000000432086_00215_41351_2106.N1	26-JAN-2010 22:25:16	Dark	43.000	131	Gam Lup	2.8000	26000.	86	41351	No
404	GOM_NL__2PRFIN20100126_223044_000000542086_00216_41352_2087.N1	26-JAN-2010 22:30:44	Dark	54.000	4	Alp1Cen	-0.010000	5800.0	108	41352	No
405	GOM_NL__2PRFIN20100126_223222_000000442086_00216_41352_2088.N1	26-JAN-2010 22:32:22	Dark	44.000	77	Eps Cen	2.3030	28000.	88	41352	No
406	GOM_NL__2PRFIN20100126_223518_000000432086_00216_41352_2089.N1	26-JAN-2010 22:35:18	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	41352	No
407	GOM_NL__2PRFIN20100126_223931_000000422086_00216_41352_2090.N1	26-JAN-2010 22:39:31	Dark	42.000	159	Ups Car	2.9200	7200.0	84	41352	No
408	GOM_NL__2PRFIN20100126_224126_000000392086_00216_41352_2091.N1	26-JAN-2010 22:41:26	Dark	39.000	71	lot Car	2.2460	7700.0	78	41352	No
409	GOM_NL__2PRFIN20100126_224313_000000452086_00216_41352_2092.N1	26-JAN-2010 22:43:13	Dark	44.500	46	Del Vel	1.9540	10600.	89	41352	No
410	GOM_NL__2PRFIN20100126_224548_000000422086_00216_41352_2093.N1	26-JAN-2010 22:45:48	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	41352	No
411	GOM_NL__2PRFIN20100126_224754_000000412086_00216_41352_2094.N1	26-JAN-2010 22:47:54	Straylight	41.000	70	Zet Pup	2.2460	39000.	82	41352	No
412	GOM_NL__2PRFIN20100126_225126_000000402086_00216_41352_2095.N1	26-JAN-2010 22:51:26	Straylight	40.000	88	31Eta CMa	2.4480	20000.	80	41352	No
413	GOM_NL__2PRFIN20100126_225312_000000382086_00216_41352_2096.N1	26-JAN-2010 22:53:12	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	41352	No
414	GOM_NL__2PRFIN20100126_230121_000000492086_00216_41352_2097.N1	26-JAN-2010 23:01:21	Twilight	48.500	8	10Alp CMi	0.40000	6500.0	97	41352	No
415	GOM_NL__2PRFIN20100126_230438_000000412086_00216_41352_2098.N1	26-JAN-2010 23:04:38	Bright	40.500	44	24Gam Gem	1.9280	11000.	81	41352	No
416	GOM_NL__2PRFIN20100126_230626_000000402086_00216_41352_2099.N1	26-JAN-2010 23:06:26	Bright	39.500	151	13Mu Gem	2.8900	3000.0	79	41352	No
417	GOM_NL__2PRFIN20100126_230815_000000442086_00216_41352_2100.N1	26-JAN-2010 23:08:15	Bright	43.500	17	78Bet Gem	1.1610	4500.0	87	41352	No
418	GOM_NL__2PRFIN20100126_231248_000000352086_00216_41352_2101.N1	26-JAN-2010 23:12:48	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	41352	No
419	GOM_NL__2PRFIN20100126_232515_000000342086_00216_41352_2102.N1	26-JAN-2010 23:25:15	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	41352	No
420	GOM_NL__2PRFIN20100126_232838_000000382086_00216_41352_2103.N1	26-JAN-2010 23:28:38	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	41352	No
421	GOM_NL__2PRFIN20100126_233315_000000412086_00216_41352_2104.N1	26-JAN-2010 23:33:15	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	41352	No
422	GOM_NL__2PRFIN20100126_233614_000000422086_00216_41352_2105.N1	26-JAN-2010 23:36:14	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	41352	No
423	GOM_NL__2PRFIN20100126_234244_000000592086_00216_41352_2106.N1	26-JAN-2010 23:42:44	Bright	59.000	133	40Zet Her	2.8070	6000.0	118	41352	No
424	GOM_NL__2PRFIN20100126_234609_000000612086_00216_41352_2107.N1	26-JAN-2010 23:46:09	Bright	61.000	127	27Bet Her	2.7810	4700.0	122	41352	No
425	GOM_NL__2PRFIN20100126_234745_000000352086_00216_41352_2108.N1	26-JAN-2010 23:47:45	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	41352	No
426	GOM_NL__2PRFIN20100126_234952_000000522086_00216_41352_2109.N1	26-JAN-2010 23:49:52	Bright	52.000	126	60Bet Oph	2.7700	4250.0	104	41352	No
427	GOM_NL__2PRFIN20100126_235435_000000542086_00216_41352_2110.N1	26-JAN-2010 23:54:35	Twilight	54.000	120	1Del Oph	2.7340	3200.0	108	41352	No
428	GOM_NL__2PRFIN20100126_235609_000000412086_00216_41352_2111.N1	26-JAN-2010 23:56:09	Twilight	40.500	86	35Eta Oph	2.4300	10200.	81	41352	No

### 3. Quality information per product

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

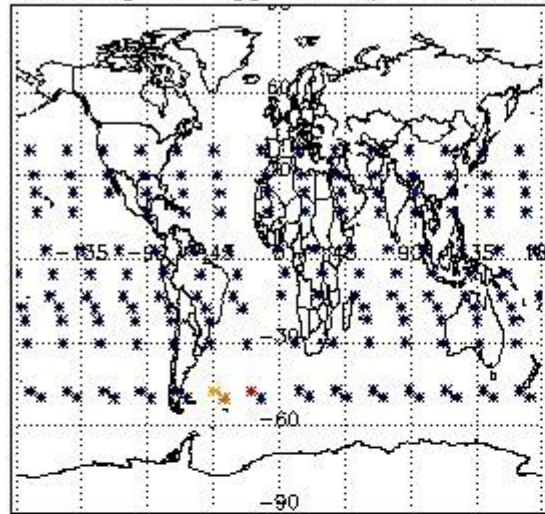
#### 3.1 Plot quality information per product (time dependant)



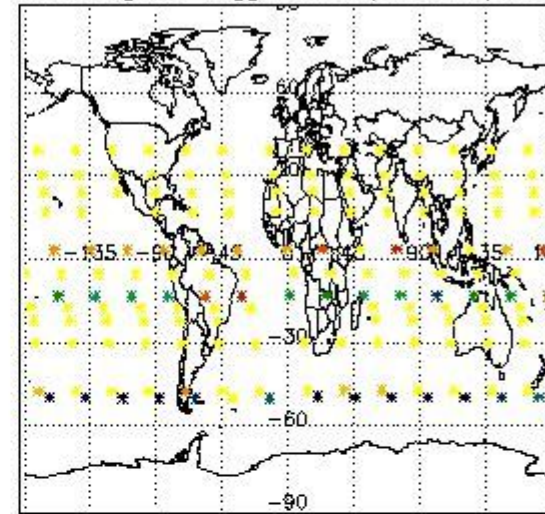
3.2 Plot quality information per product (world map)



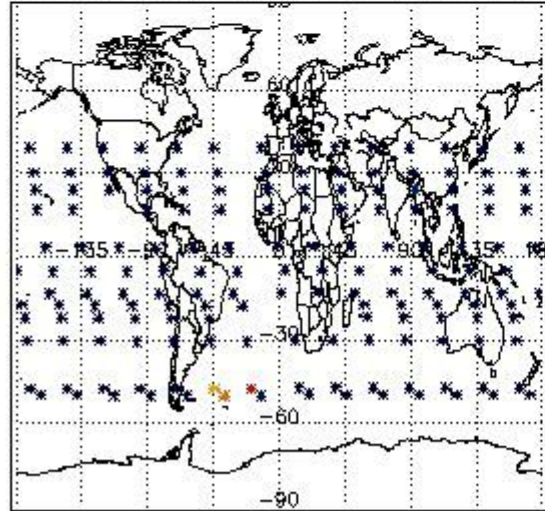
Percentage of flagged data per O3 profile



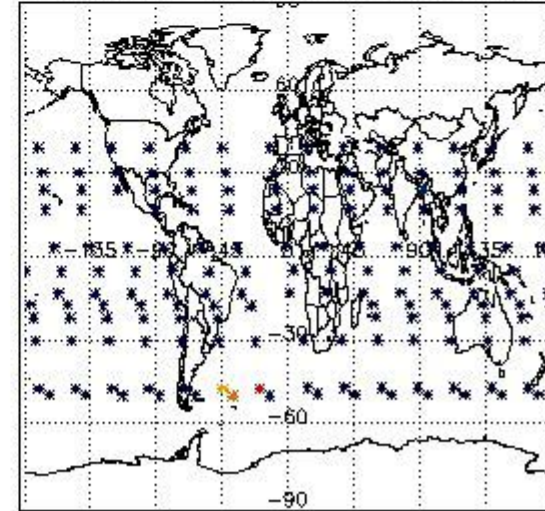
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

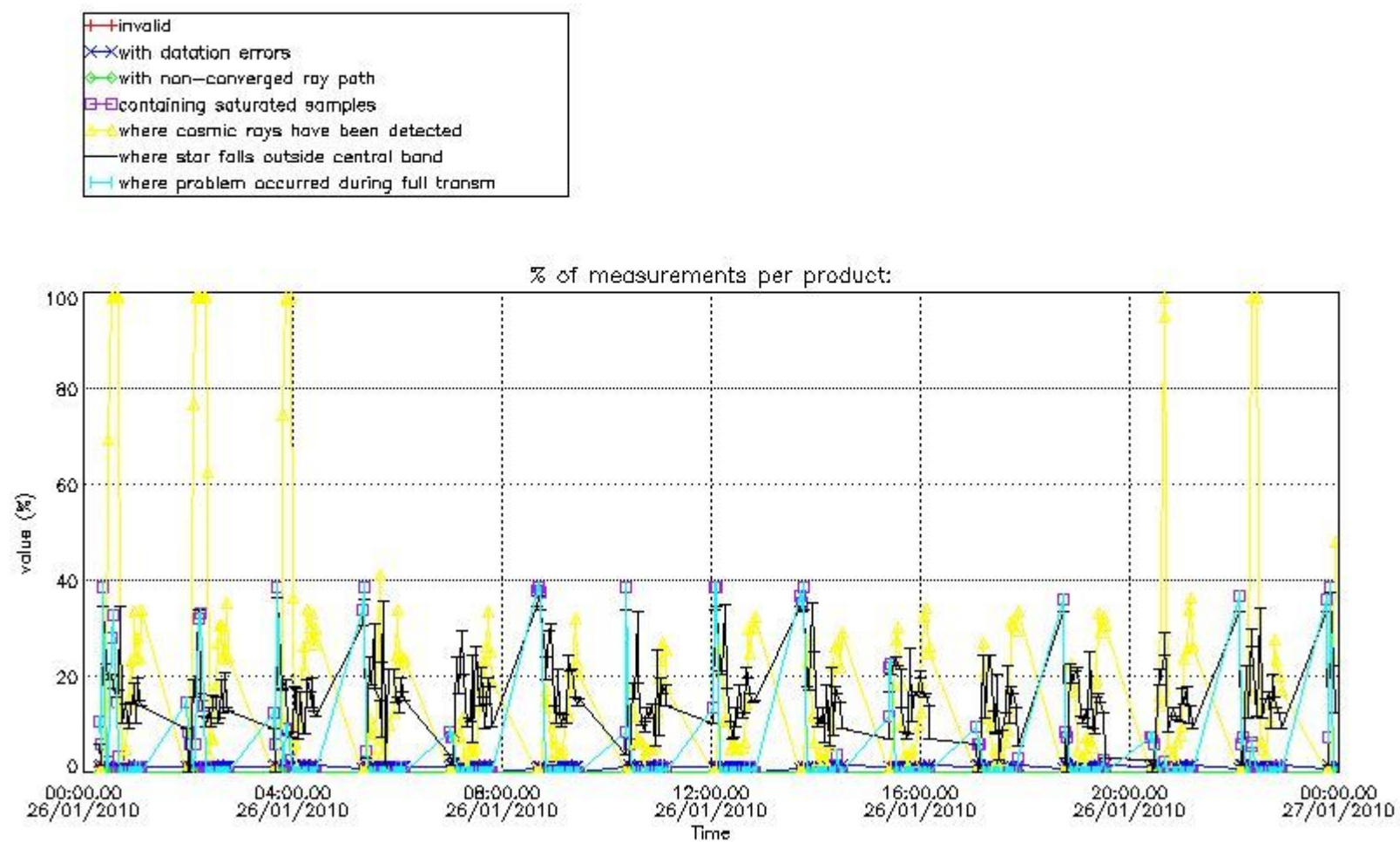


#### 4. Level 1 quality information per product

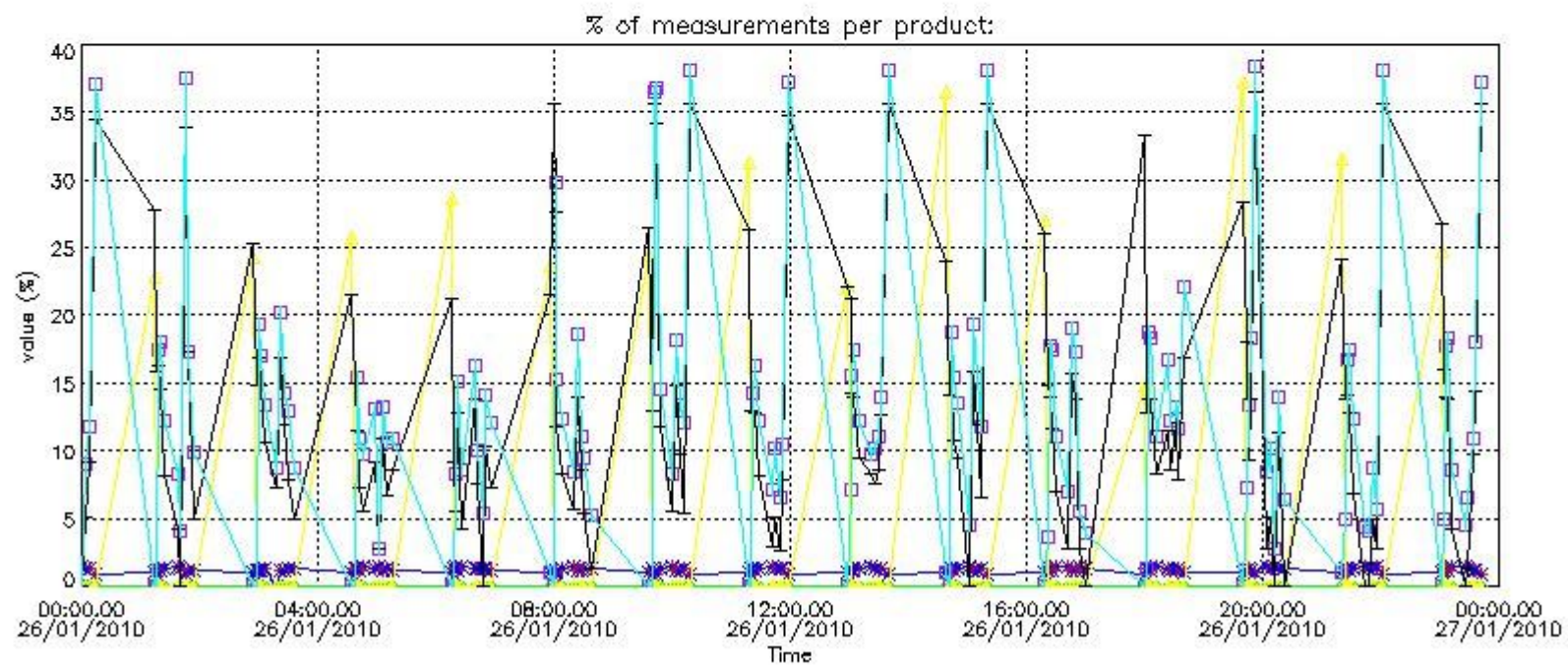
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

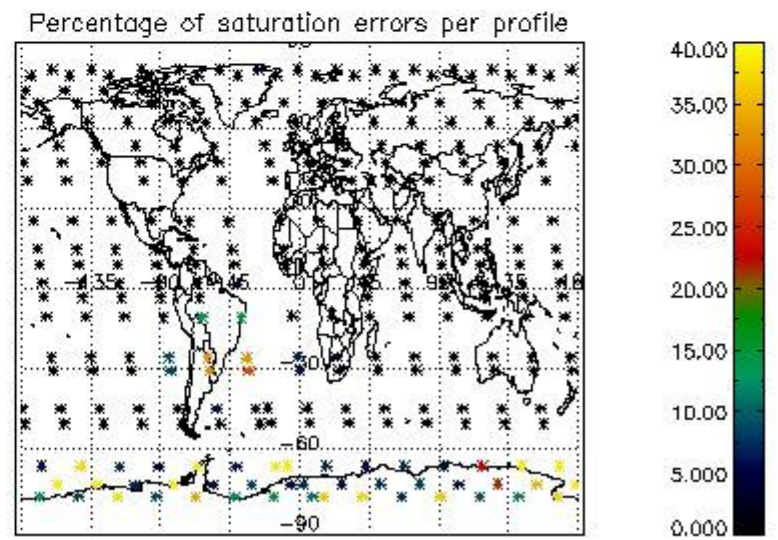
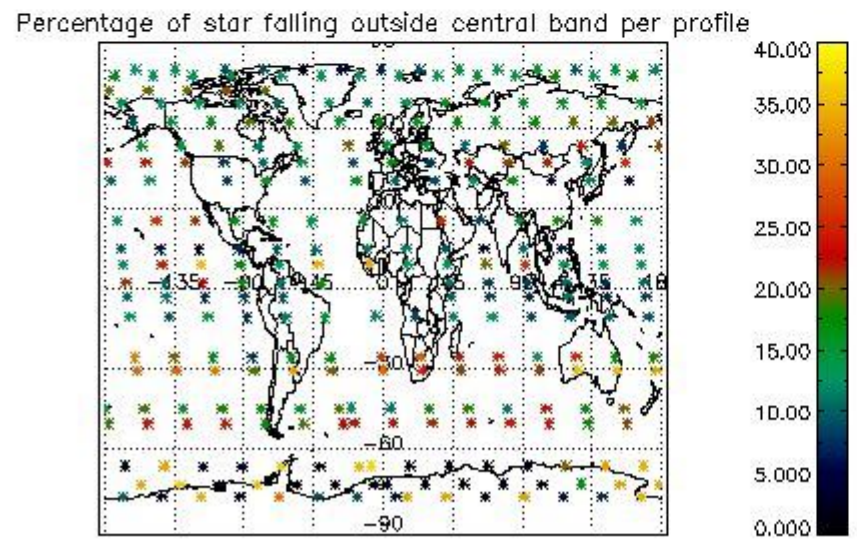
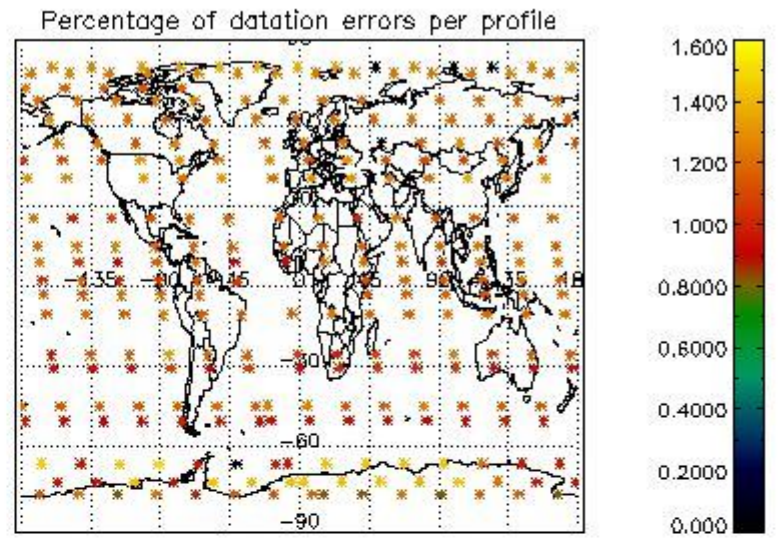
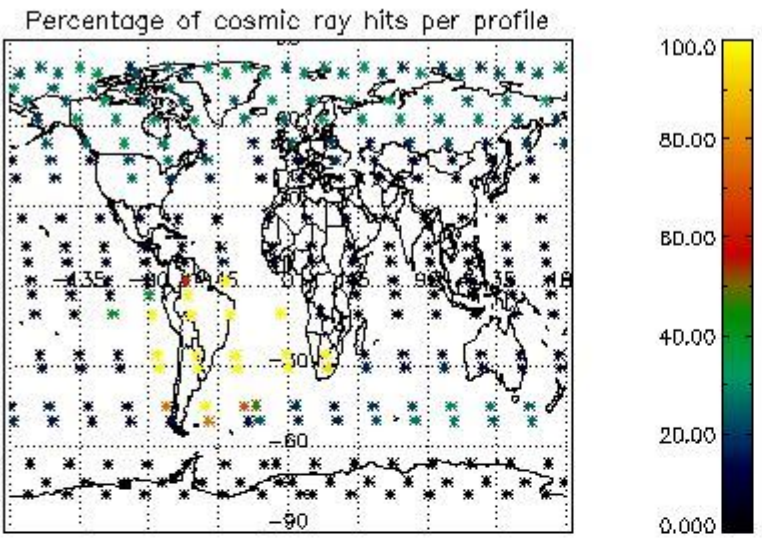


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

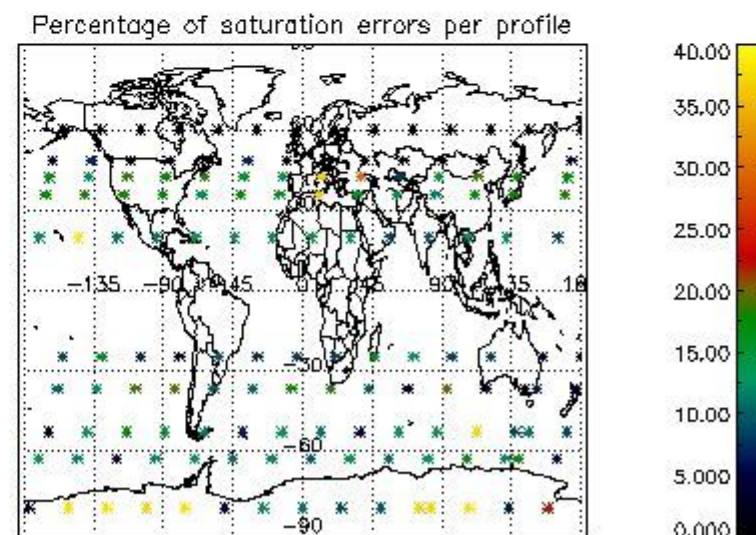
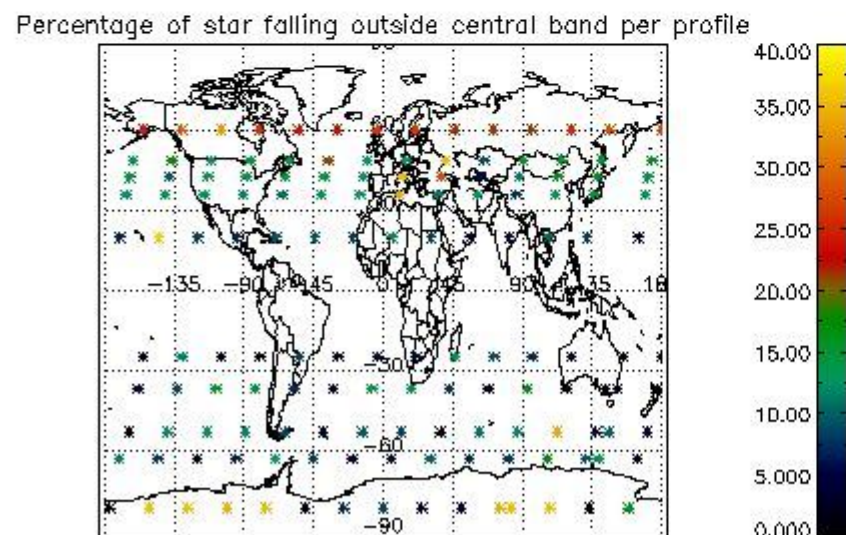
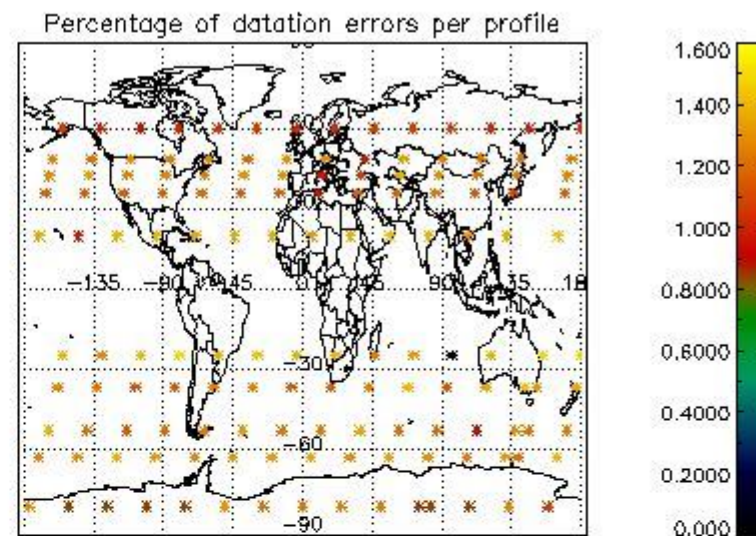
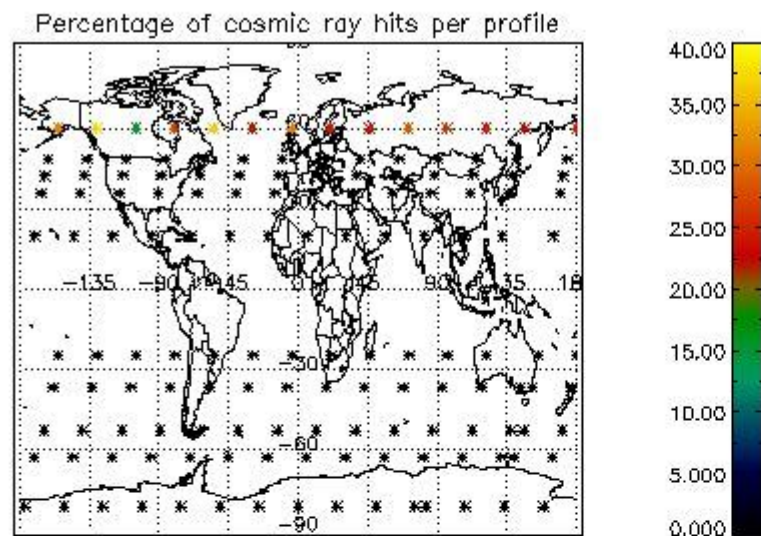


*4.2 Plot quality information per product coming from level 1b processing (world map)*

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



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



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

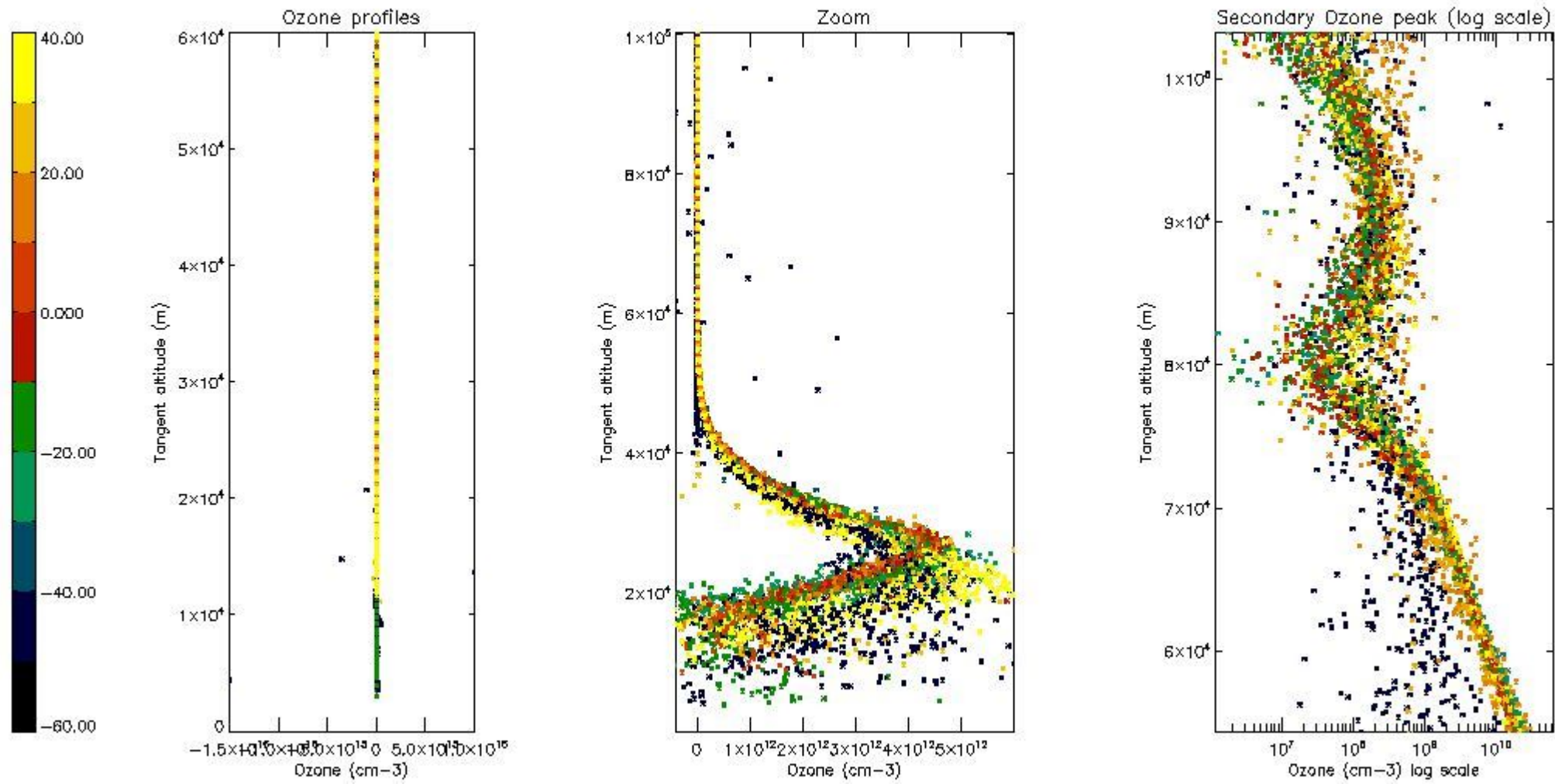
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	15
STD < 5	10

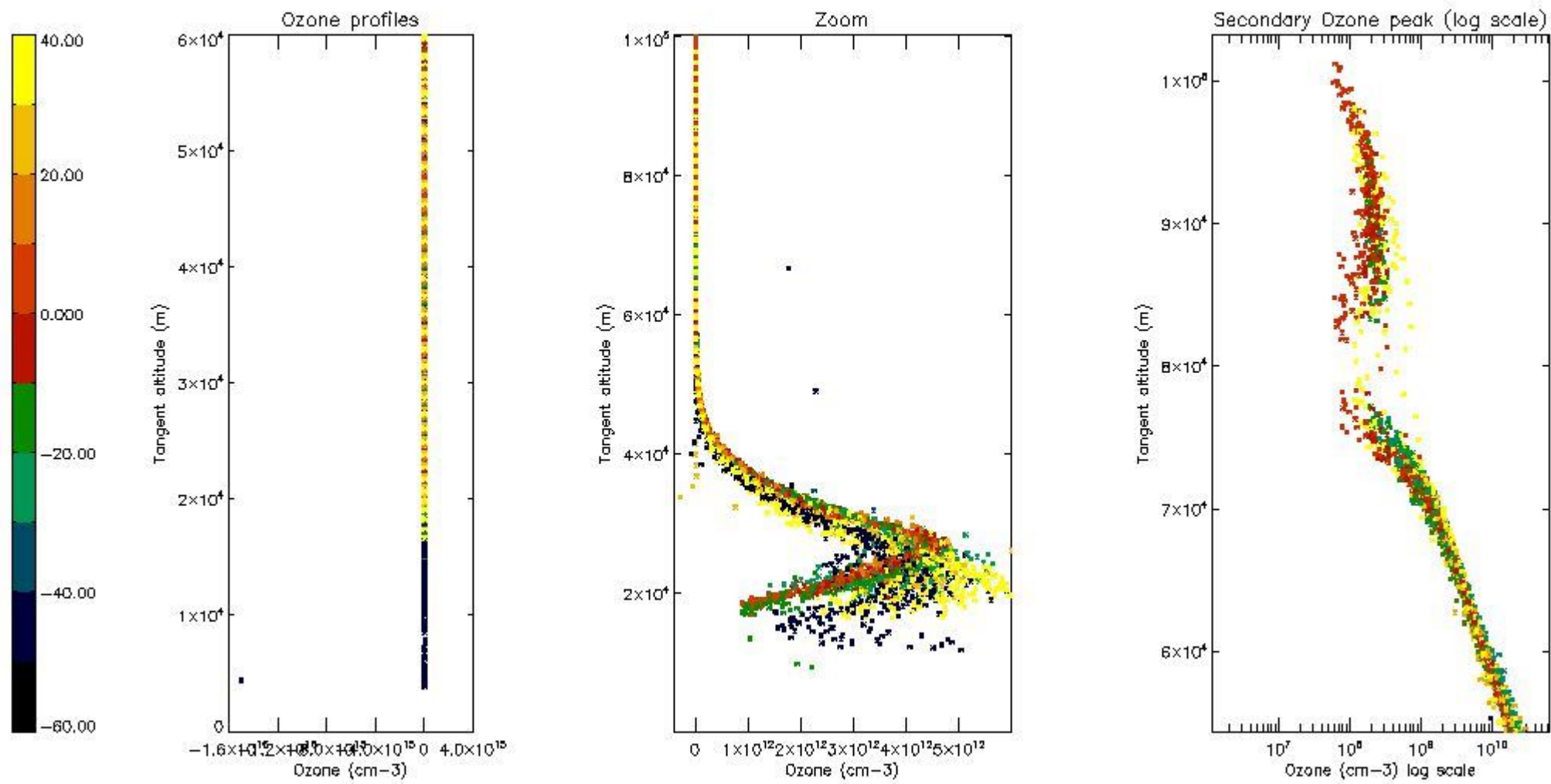
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



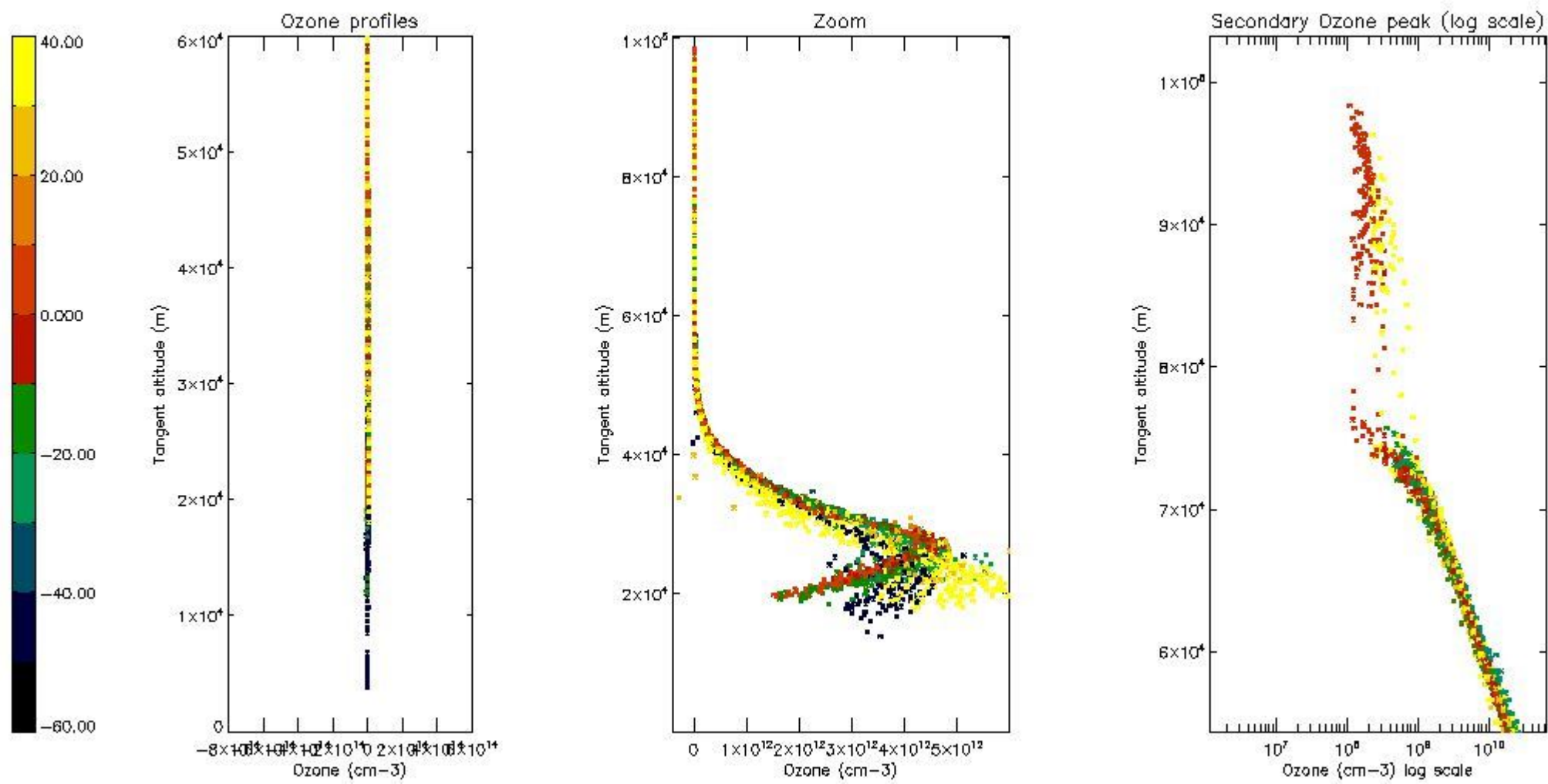
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

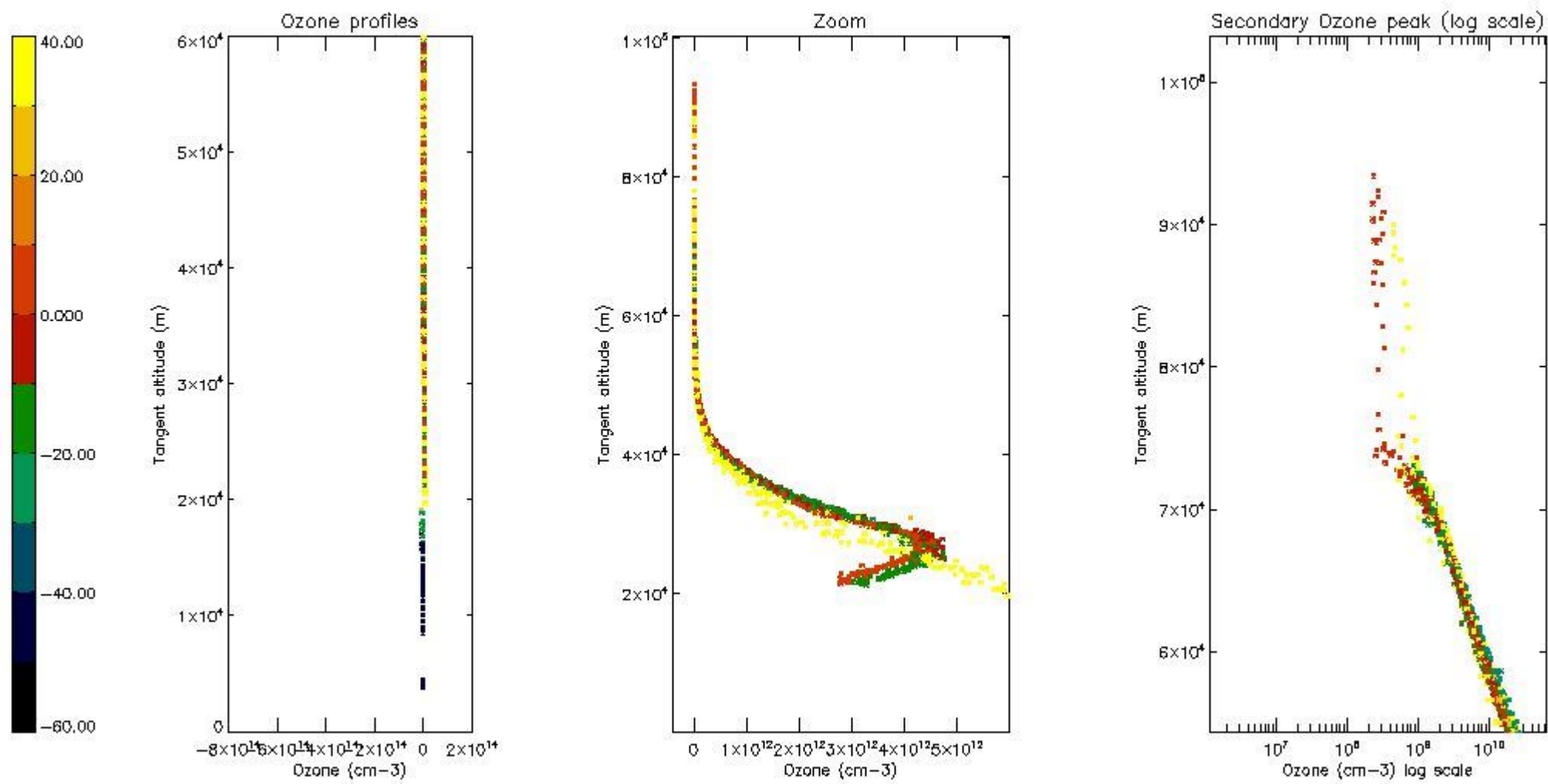
The colorbar represents the latitude.



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

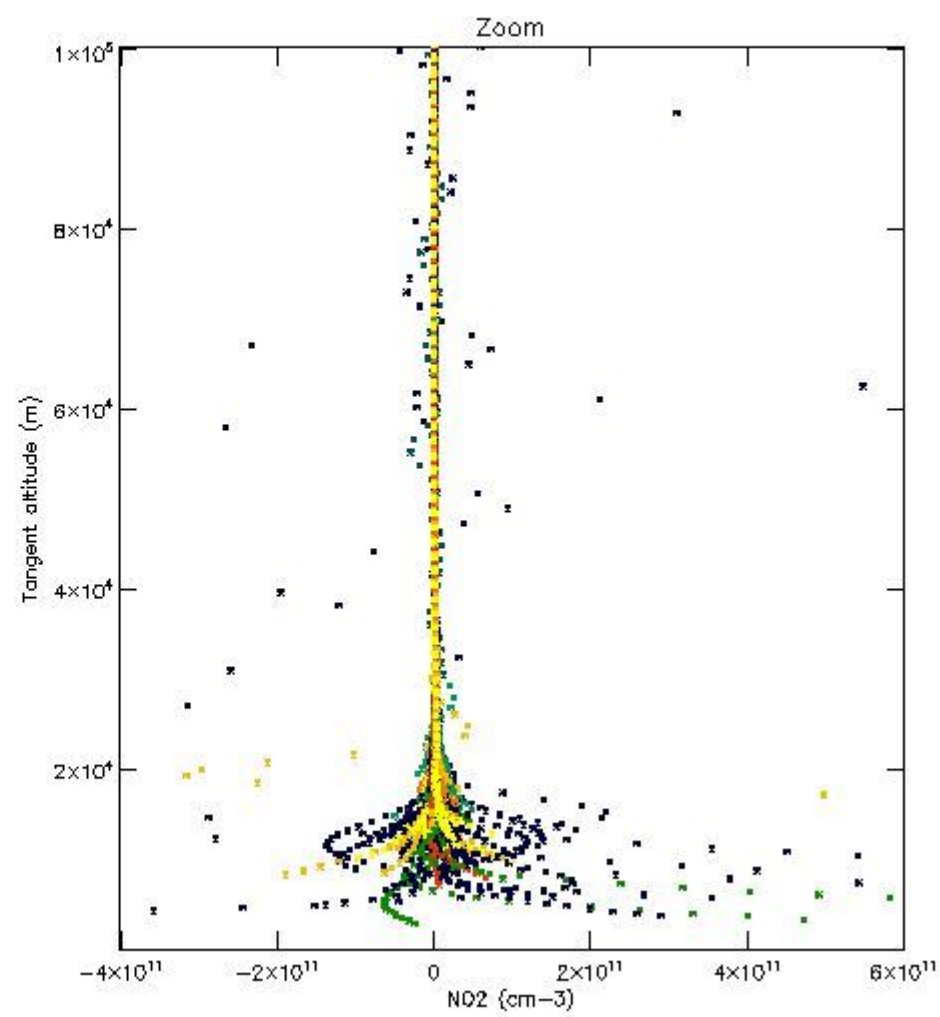
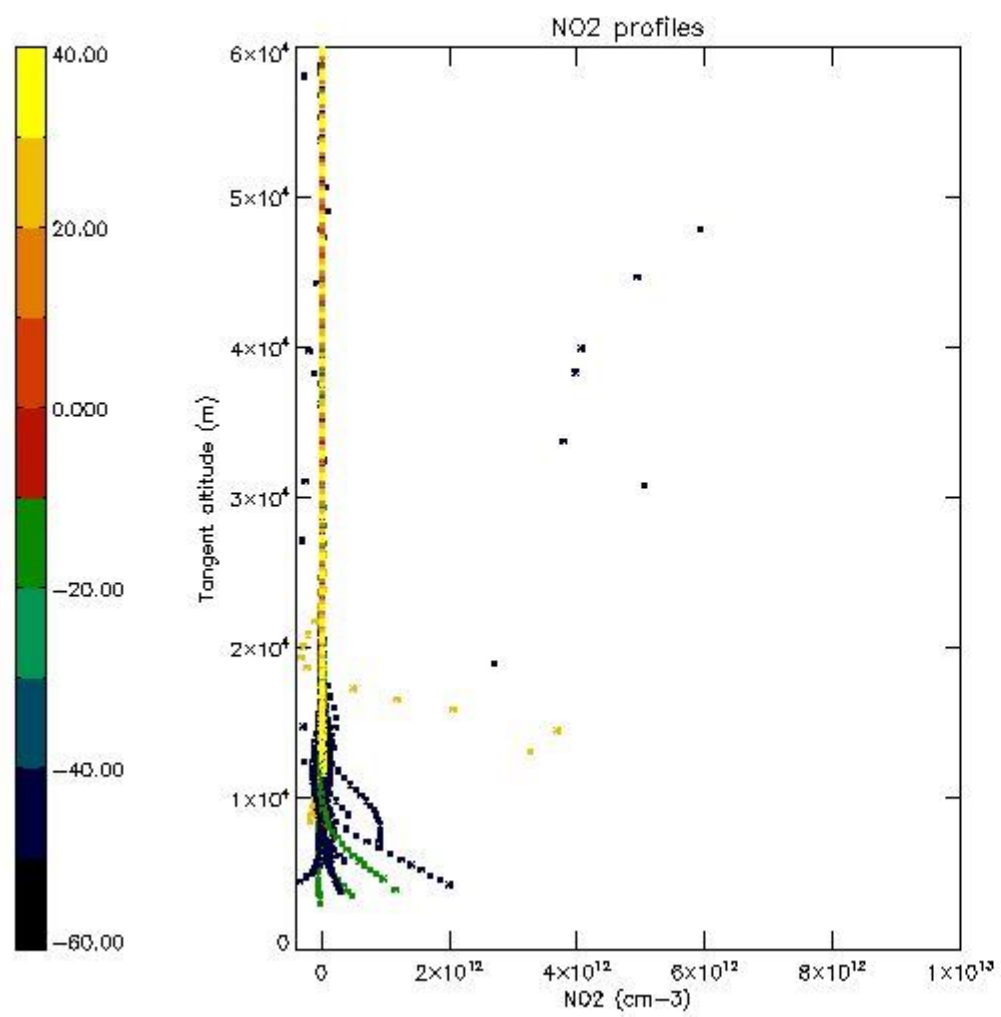
The colorbar represents the latitude.





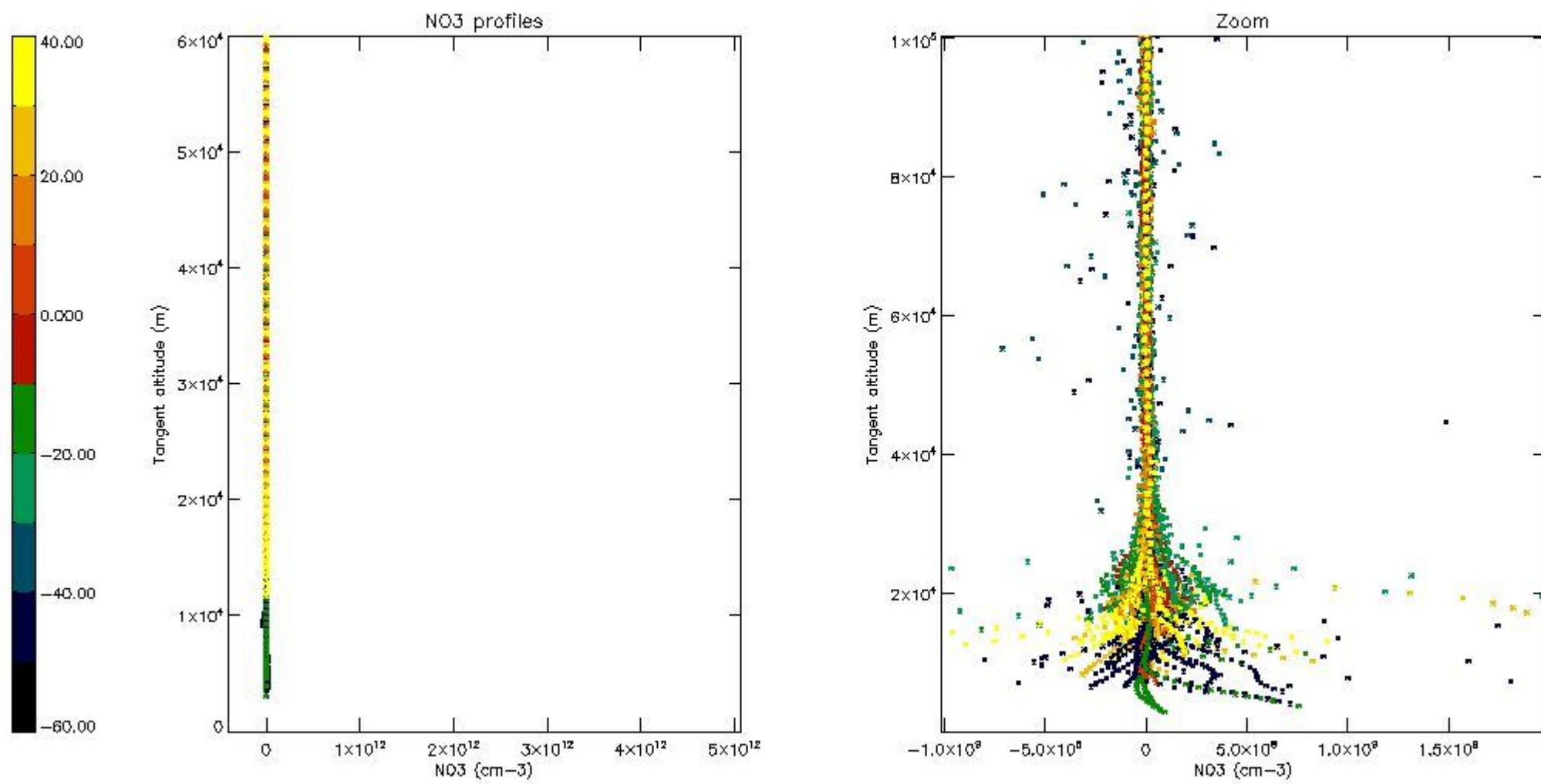
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



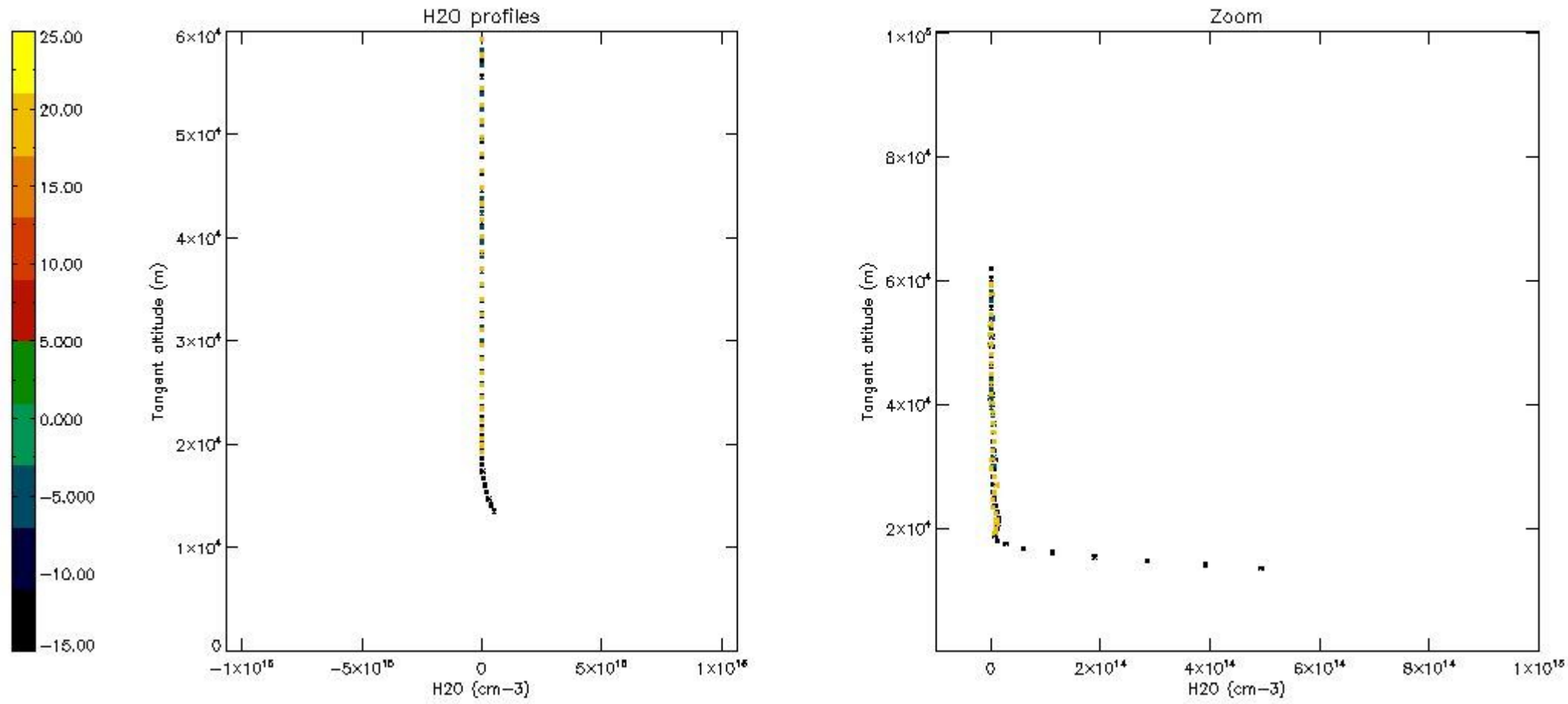
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



*5.8 Plot H2O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)*

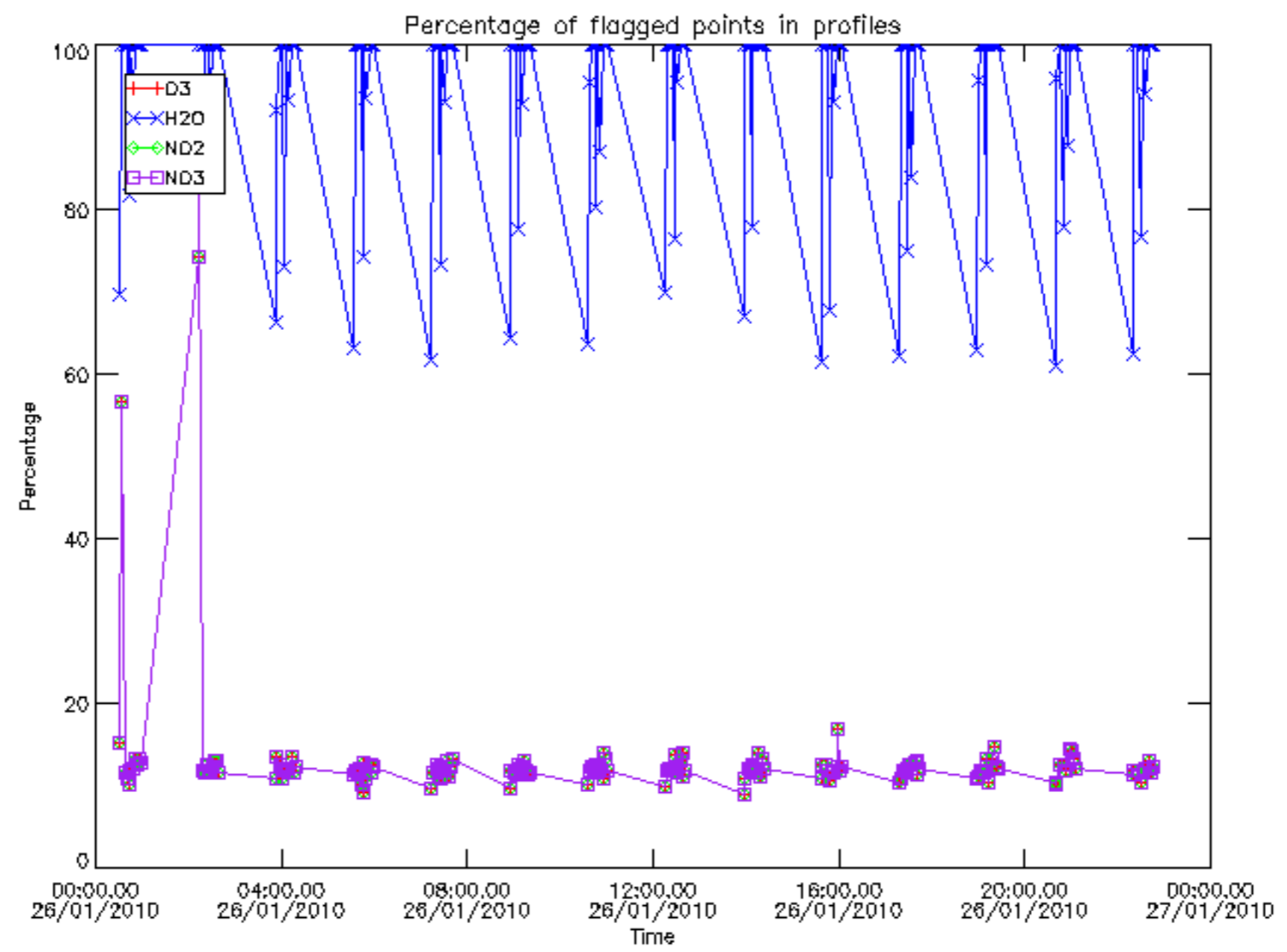
The colorbar represents the latitude.



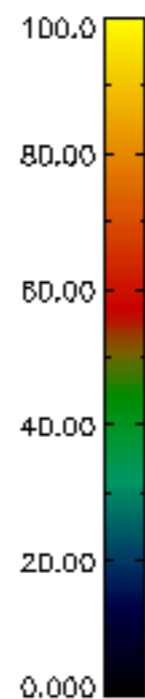
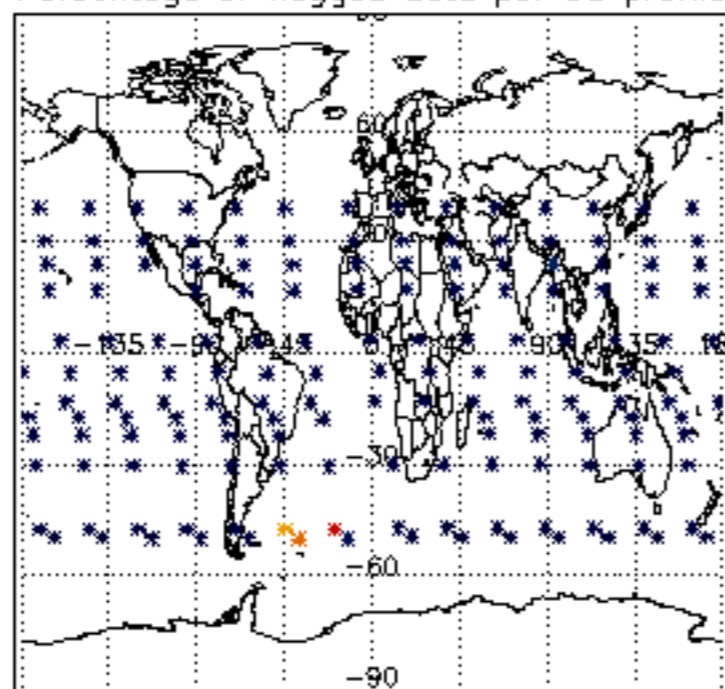
## 6. Auxiliary Data Files used for the production reported in section 2

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

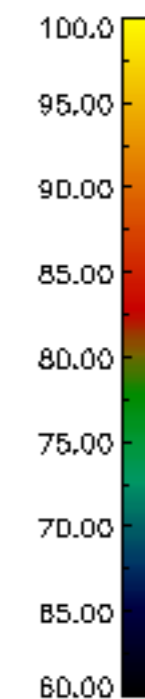
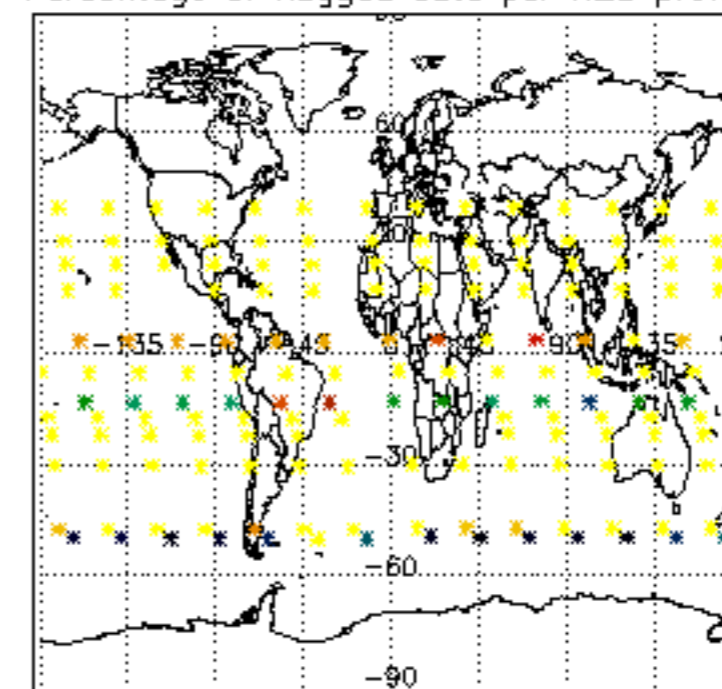
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-JAN-2010 00:00:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-JAN-2010 00:00:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-JAN-2010 00:00:18



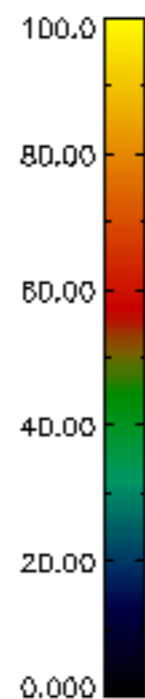
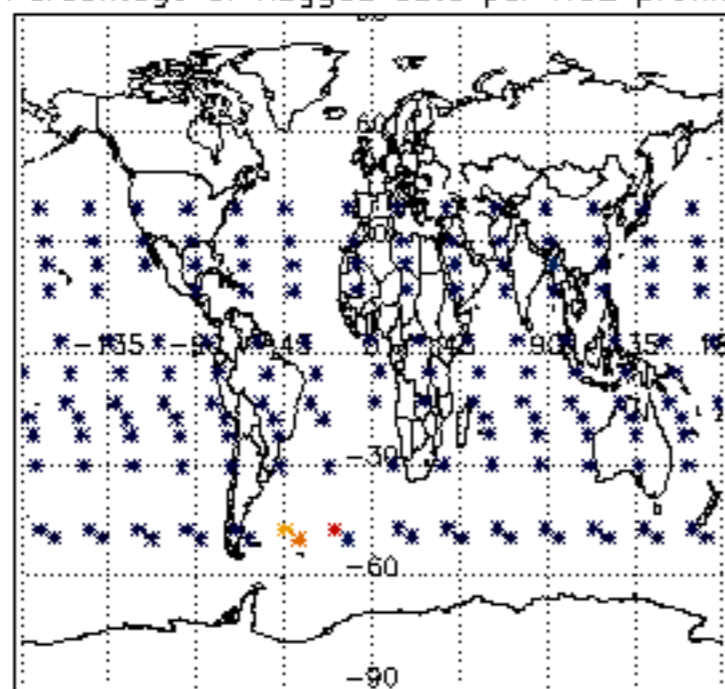
Percentage of flagged data per D3 profile



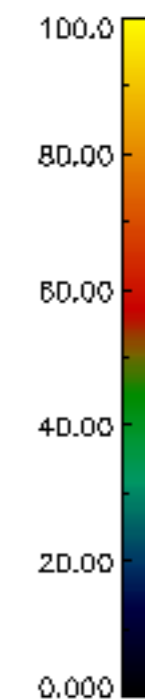
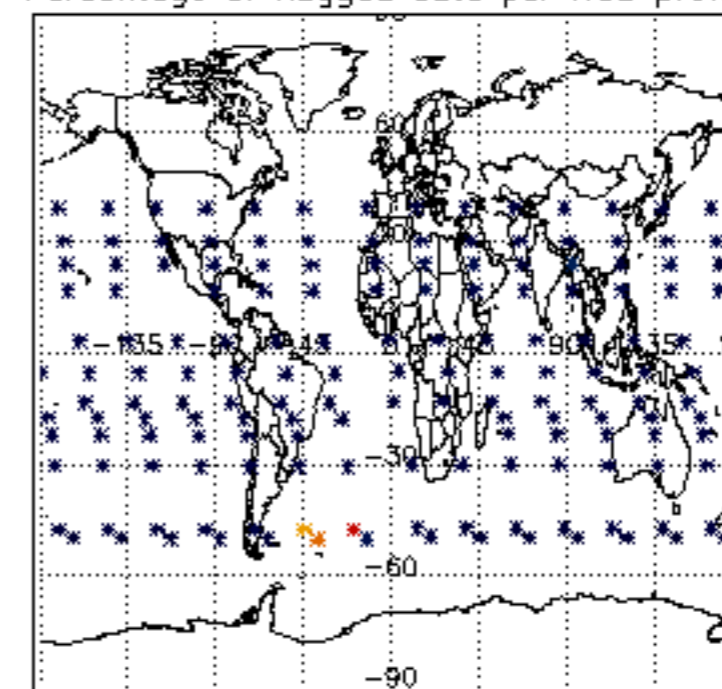
Percentage of flagged data per H2O profile

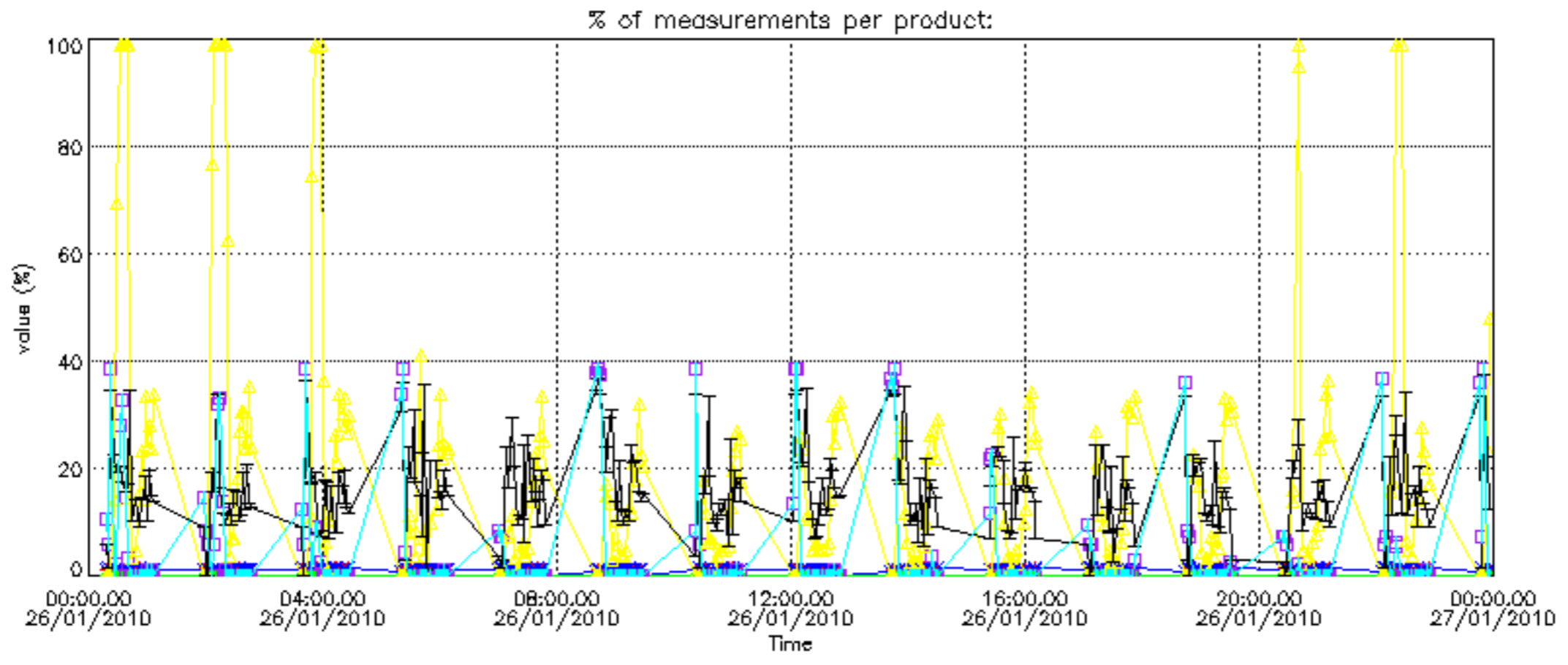


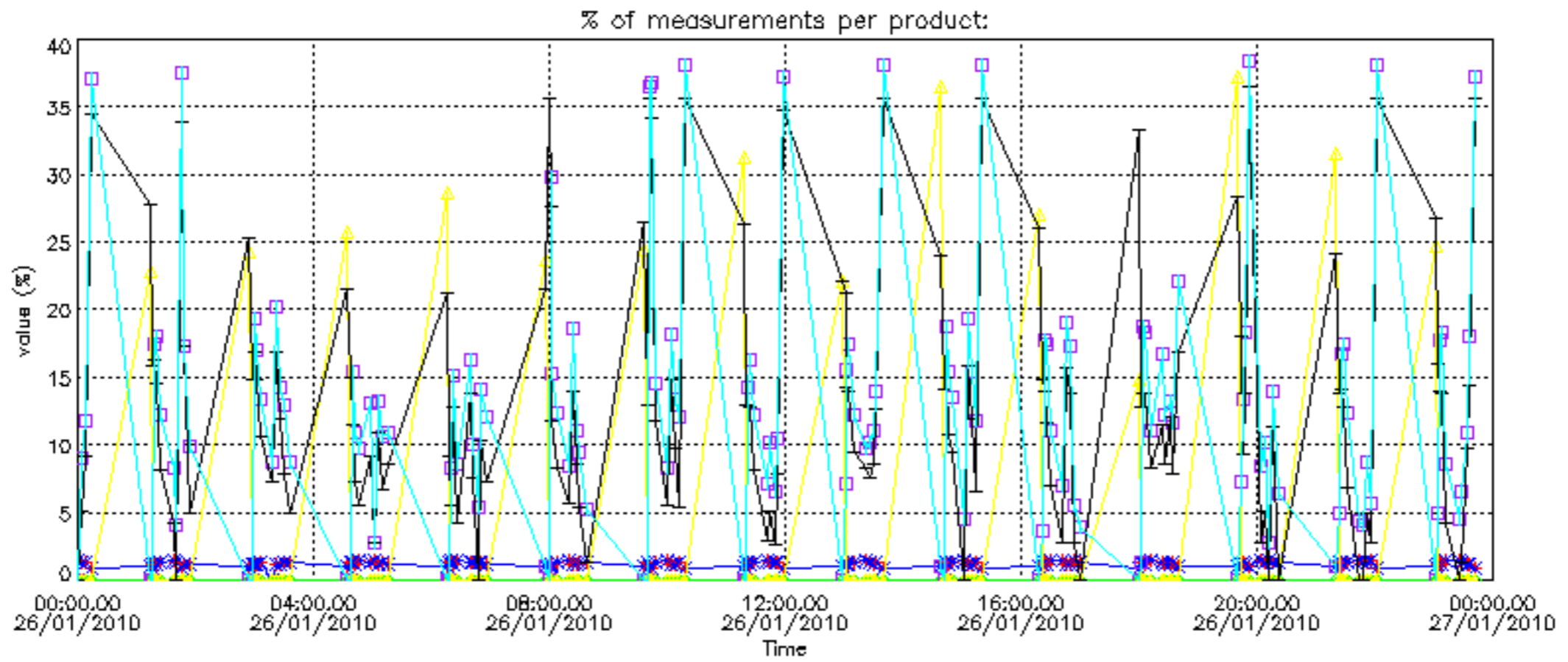
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

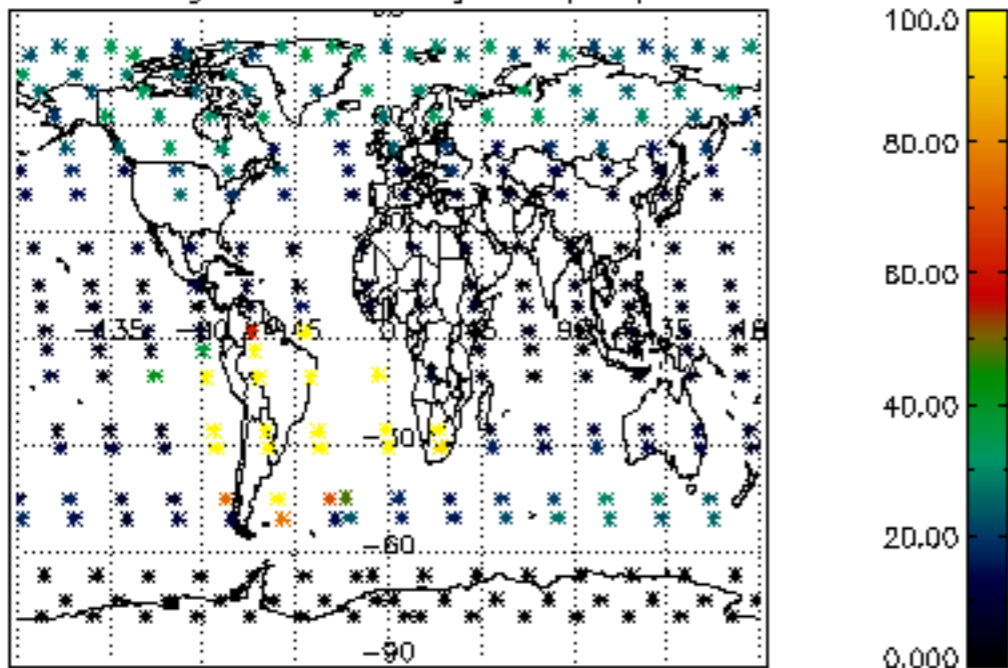




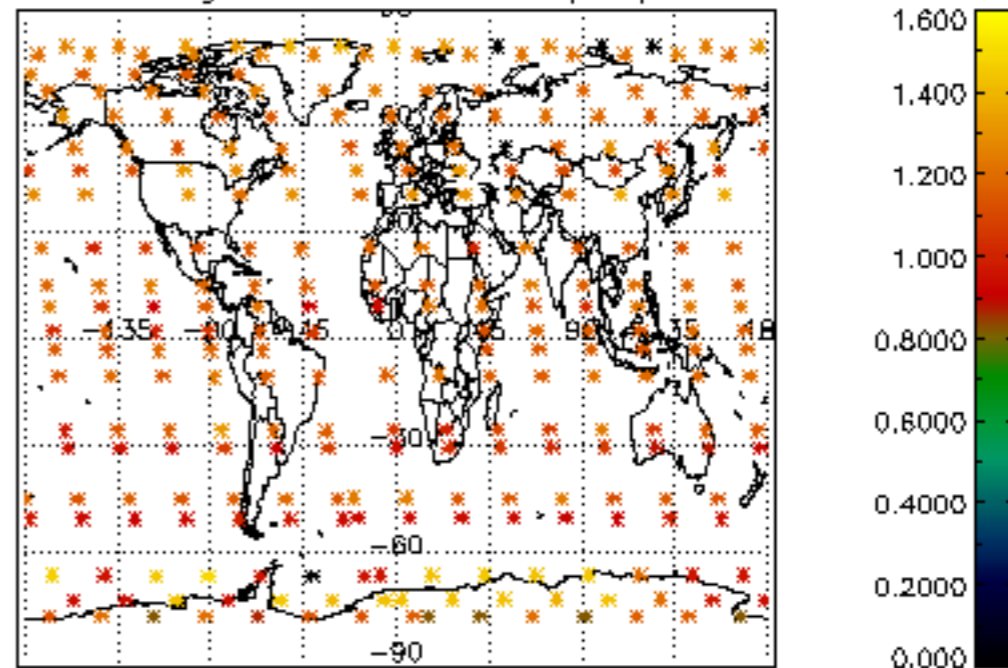




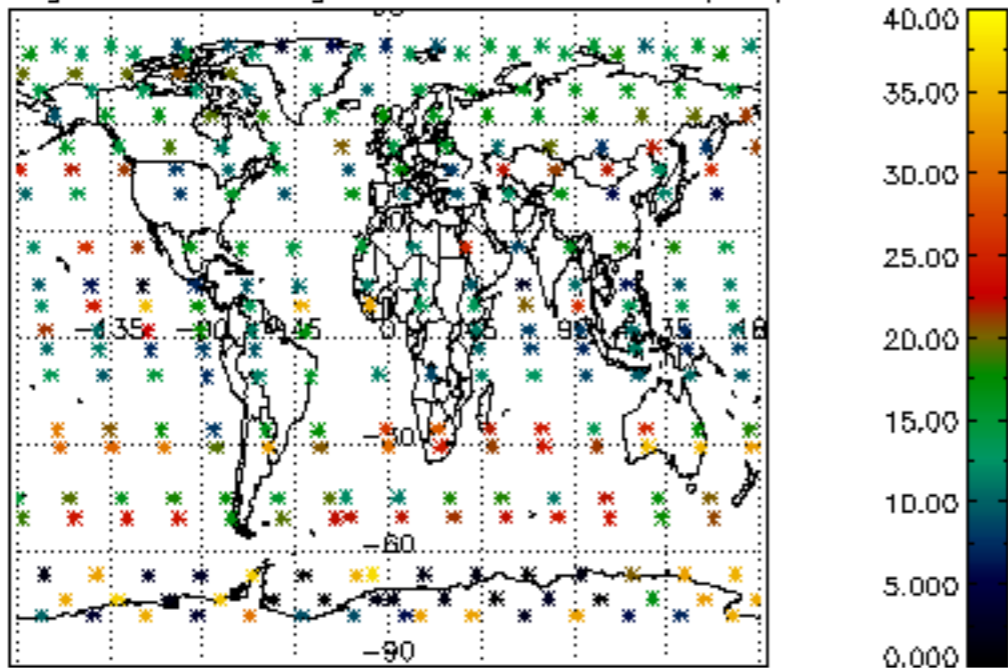
Percentage of cosmic ray hits per profile



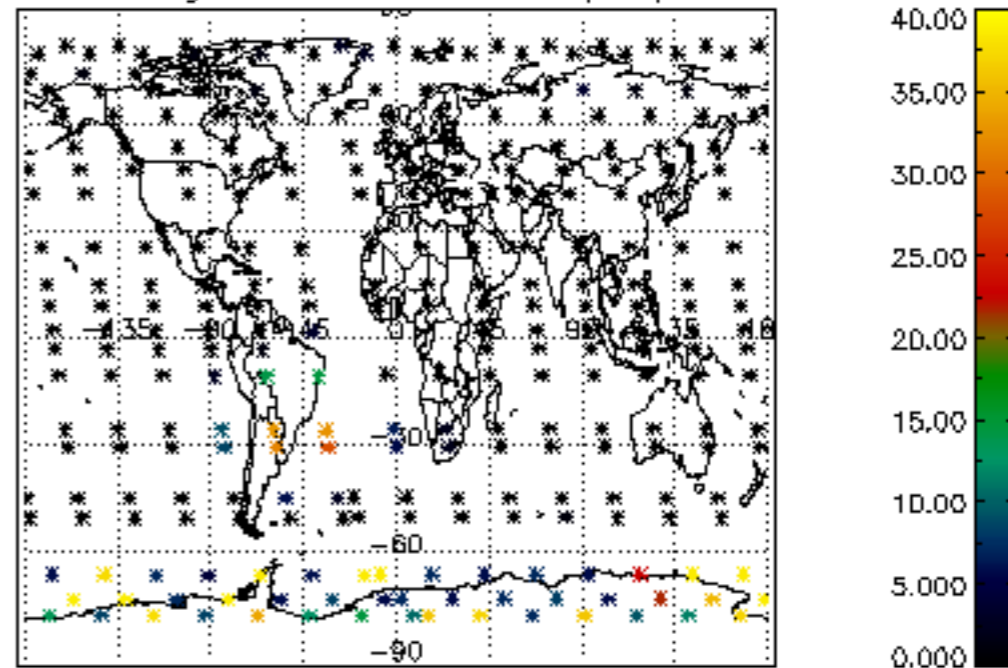
Percentage of datation errors per profile



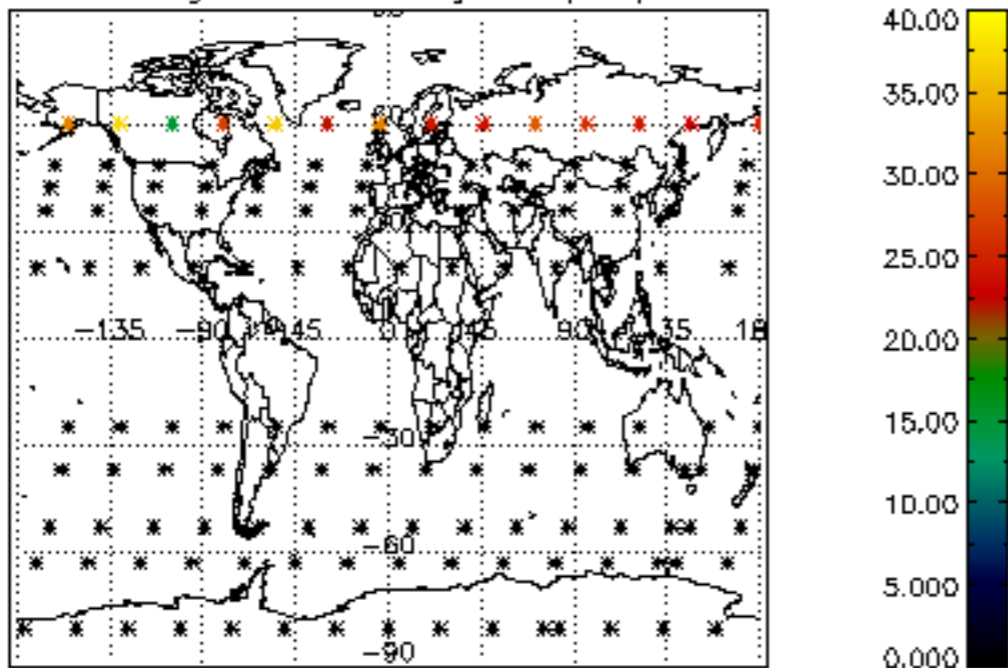
Percentage of star falling outside central band per profile



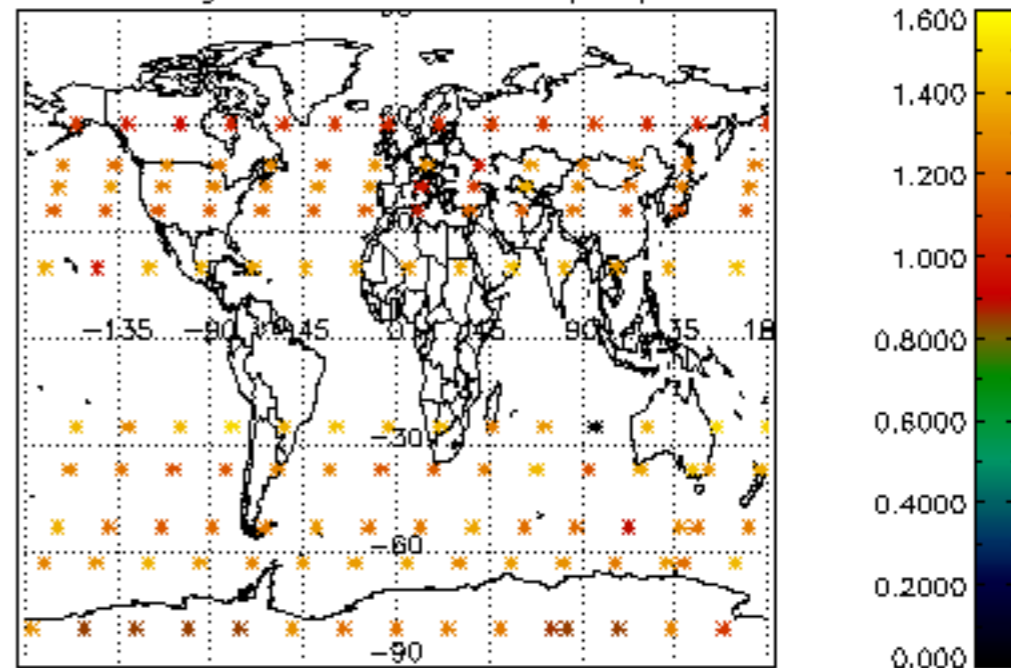
Percentage of saturation errors per profile



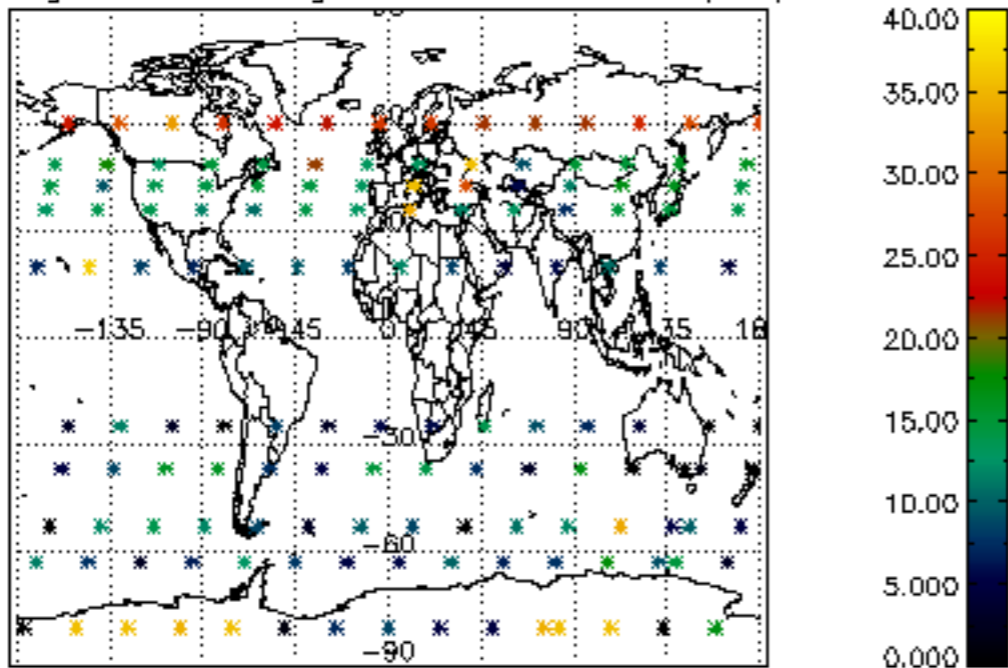
Percentage of cosmic ray hits per profile



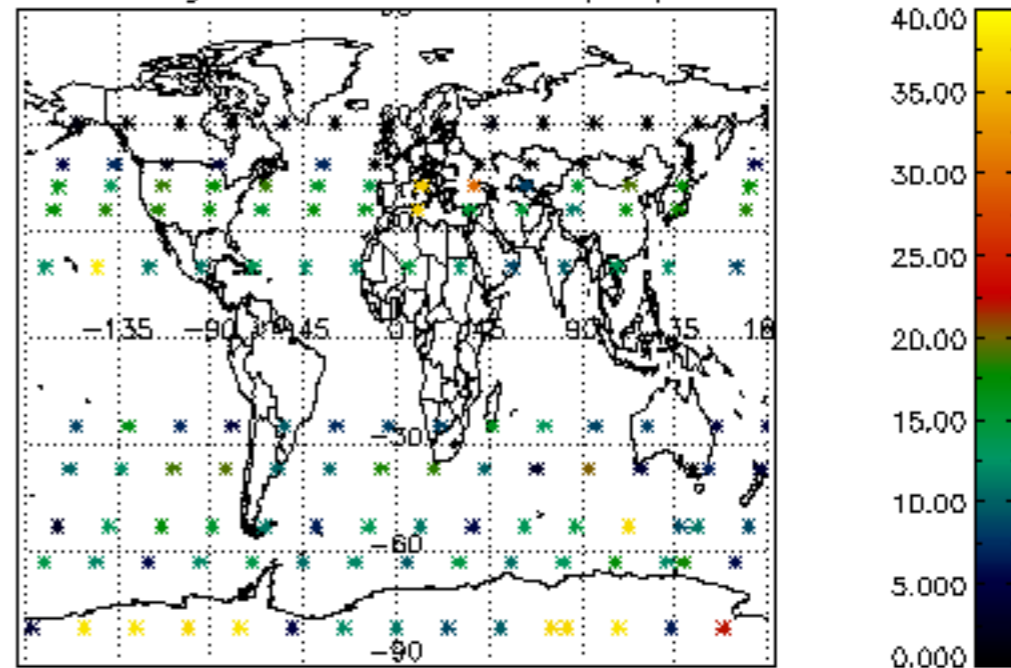
Percentage of datation errors per profile

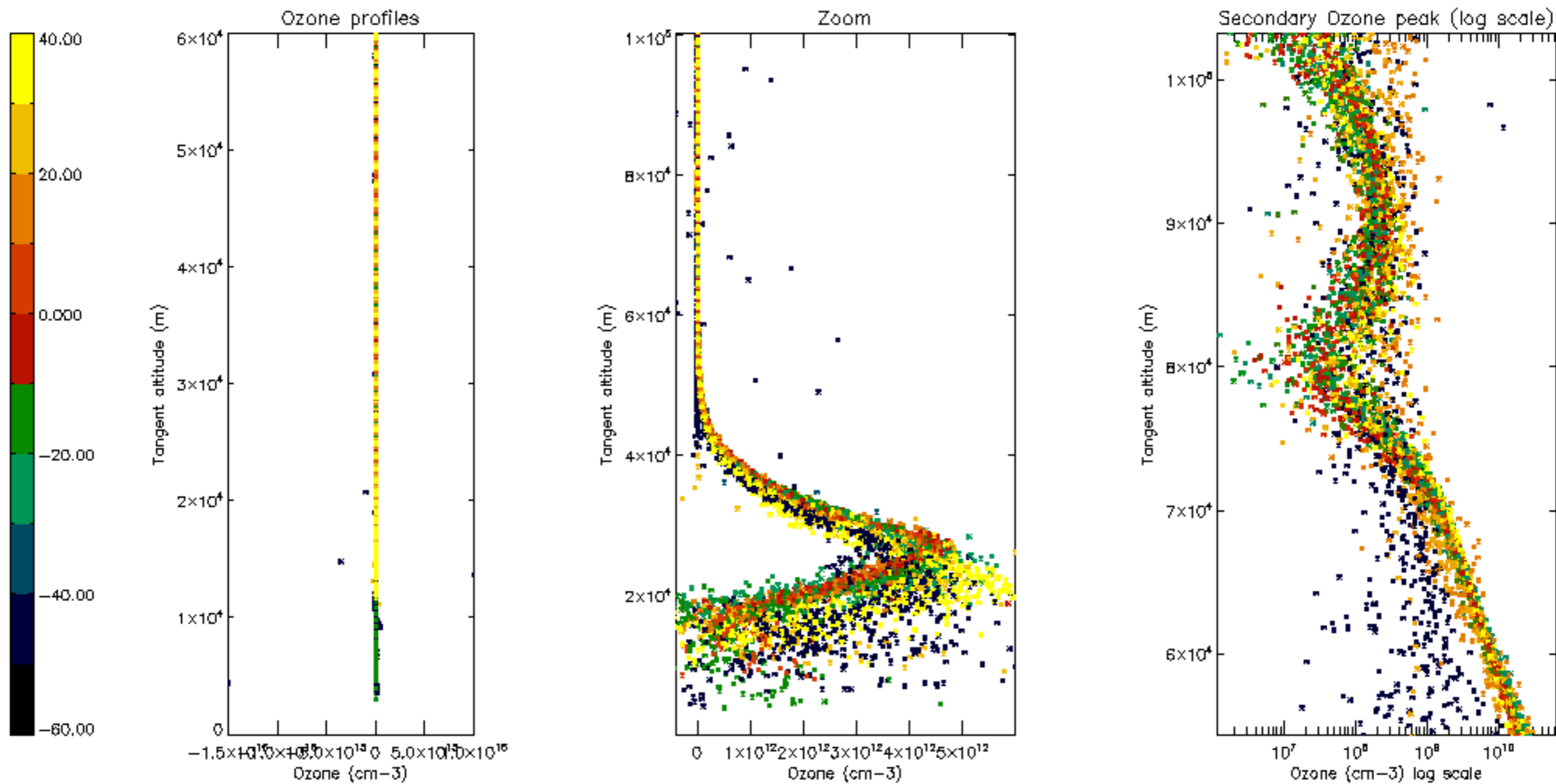


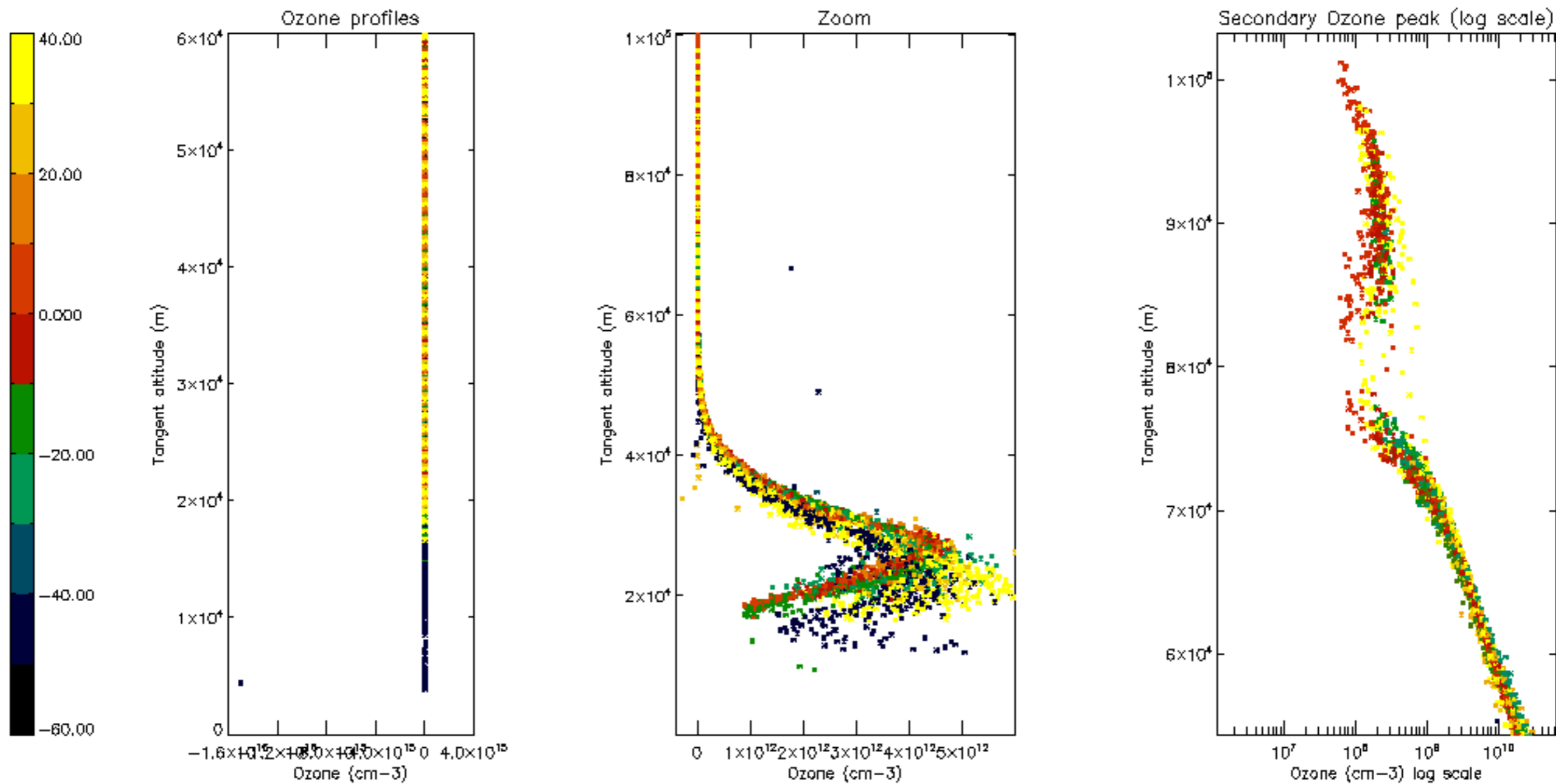
Percentage of star falling outside central band per profile

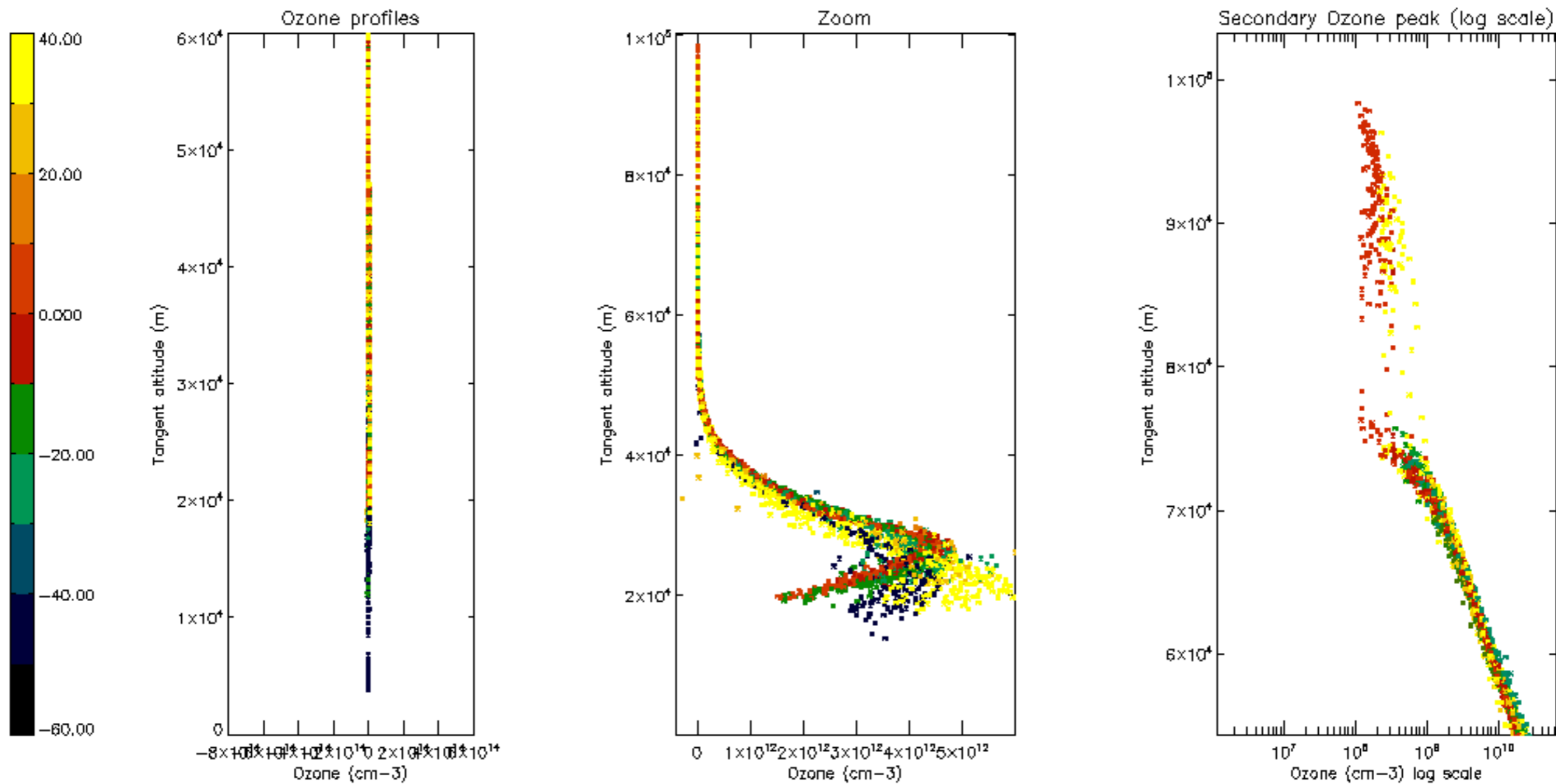


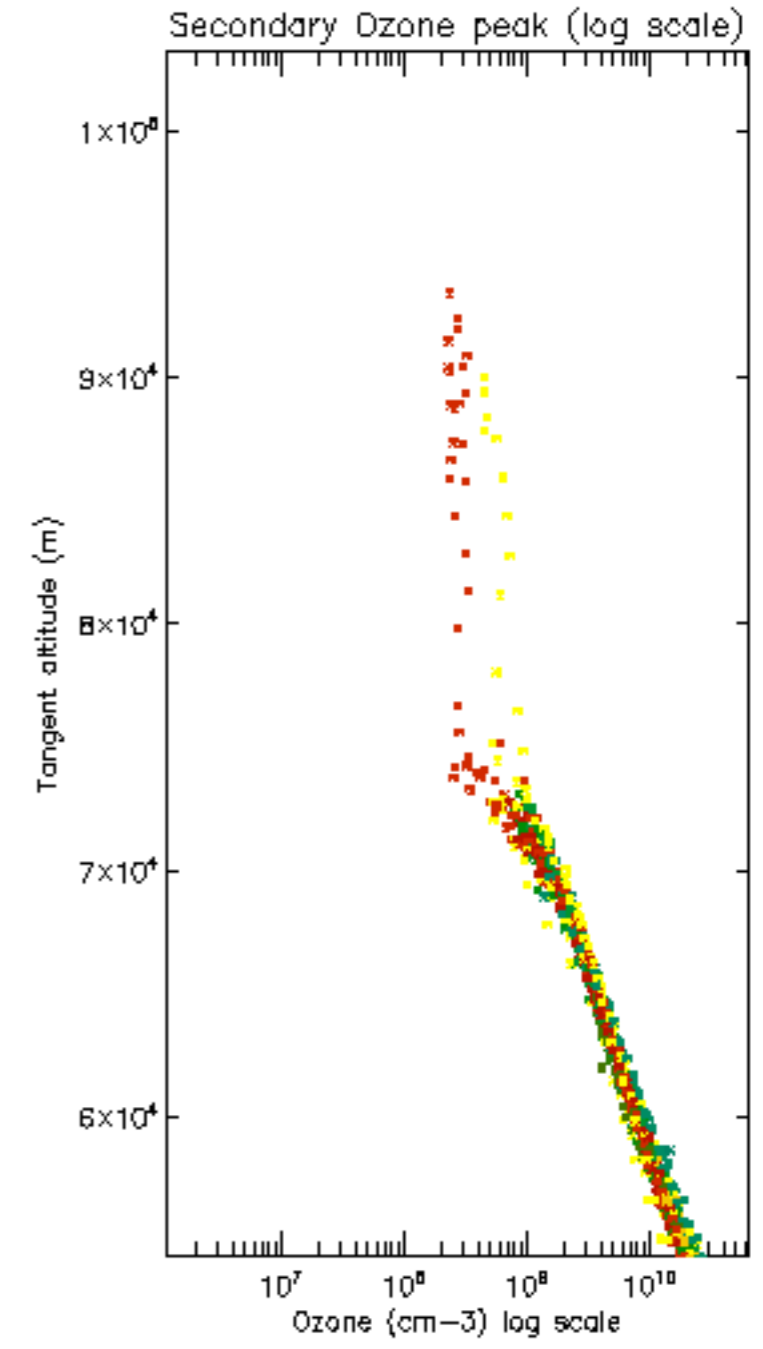
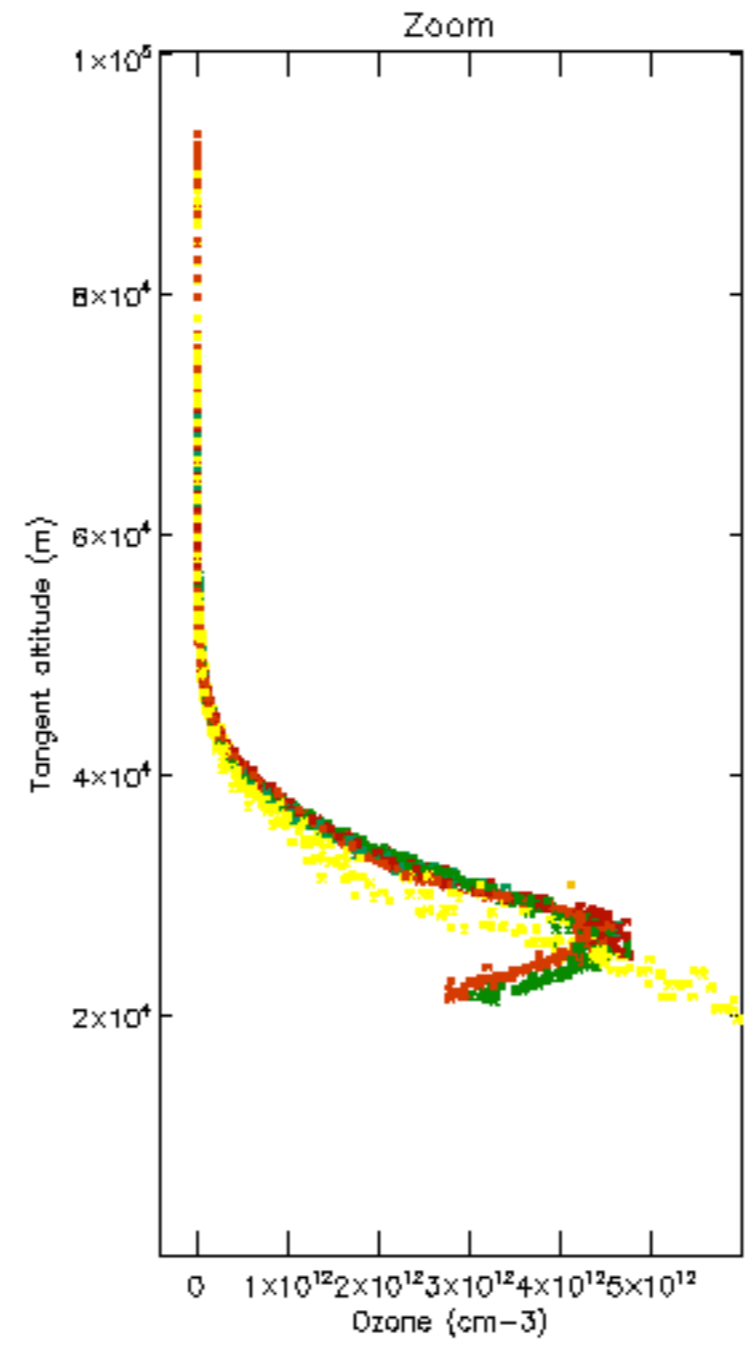
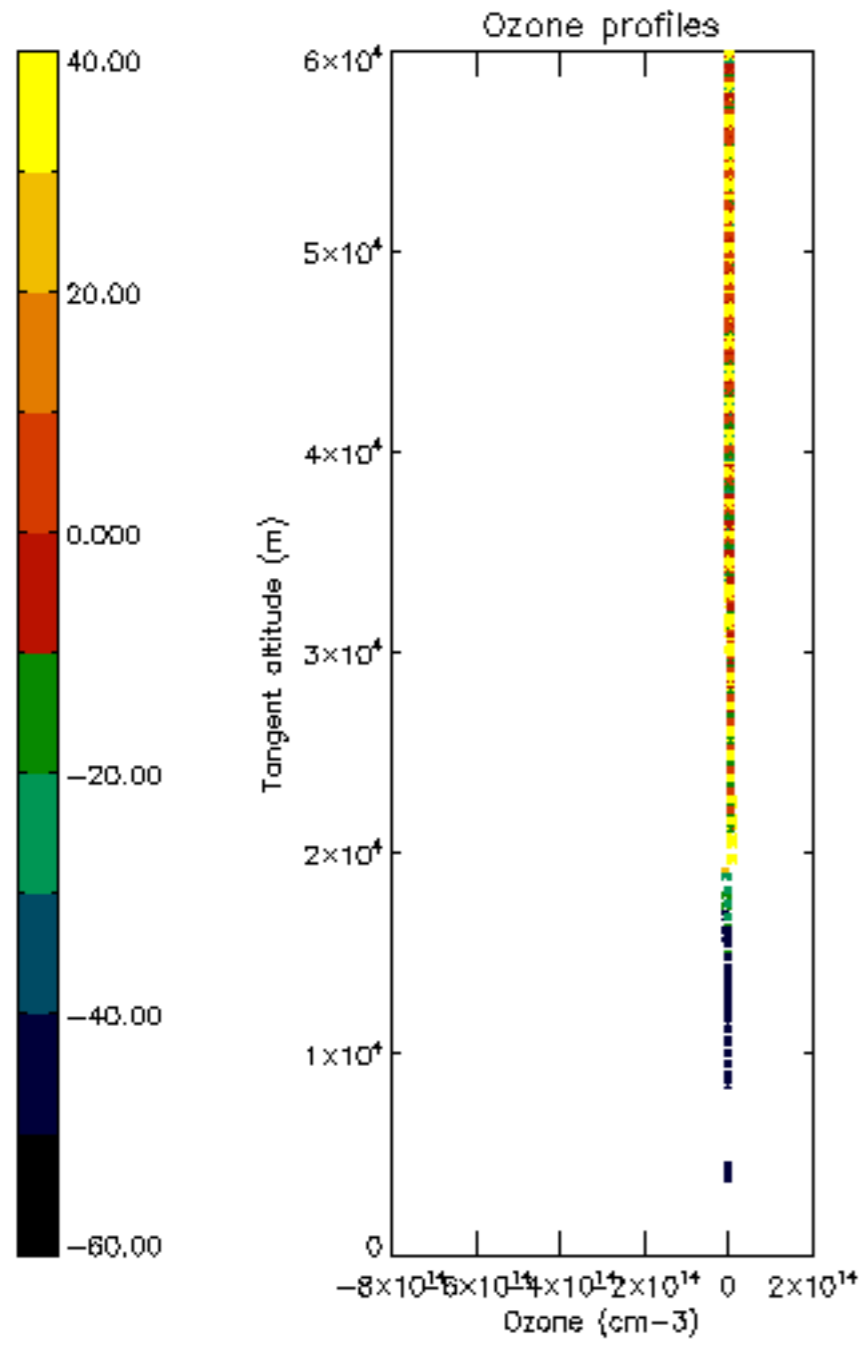
Percentage of saturation errors per profile

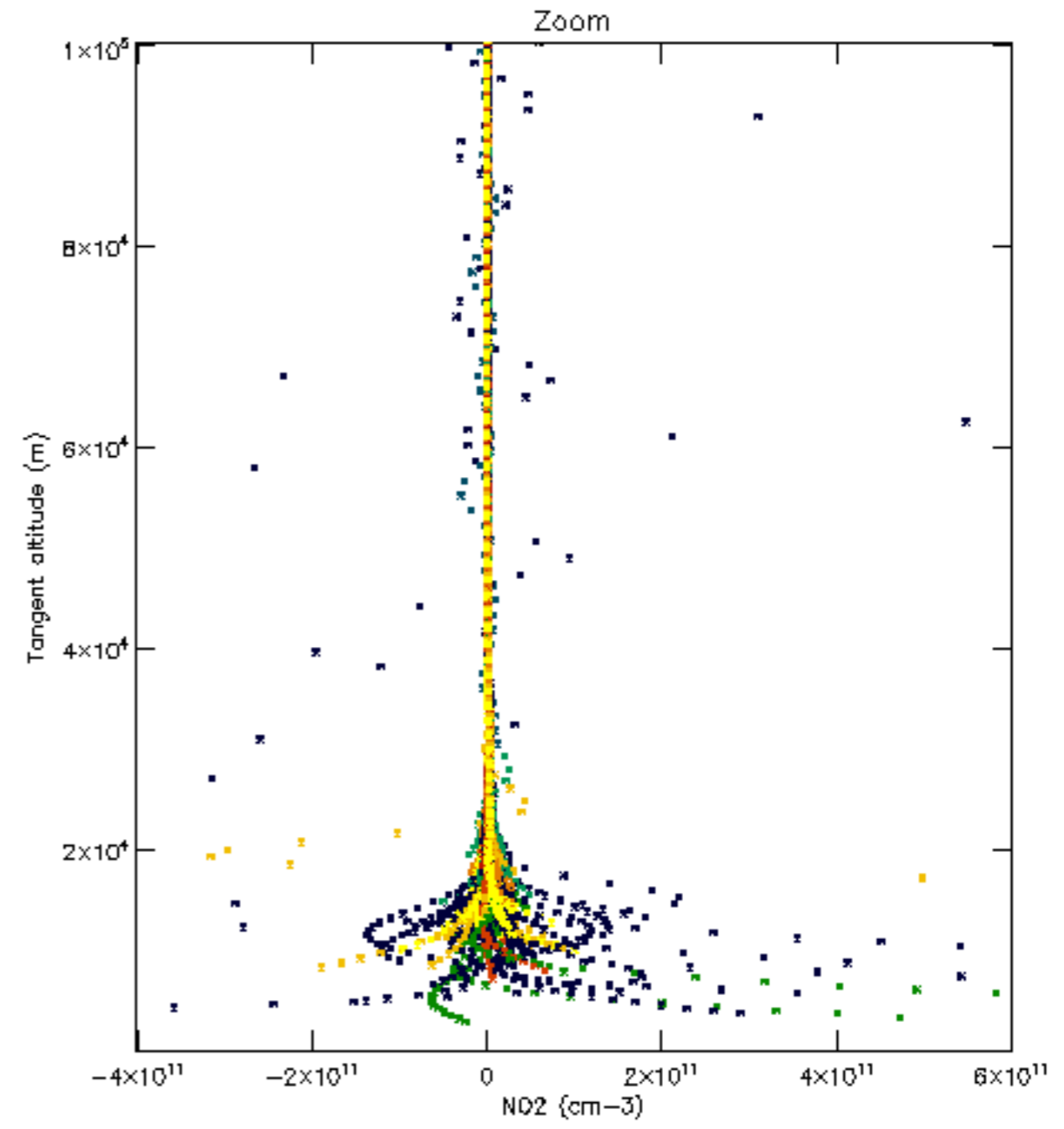
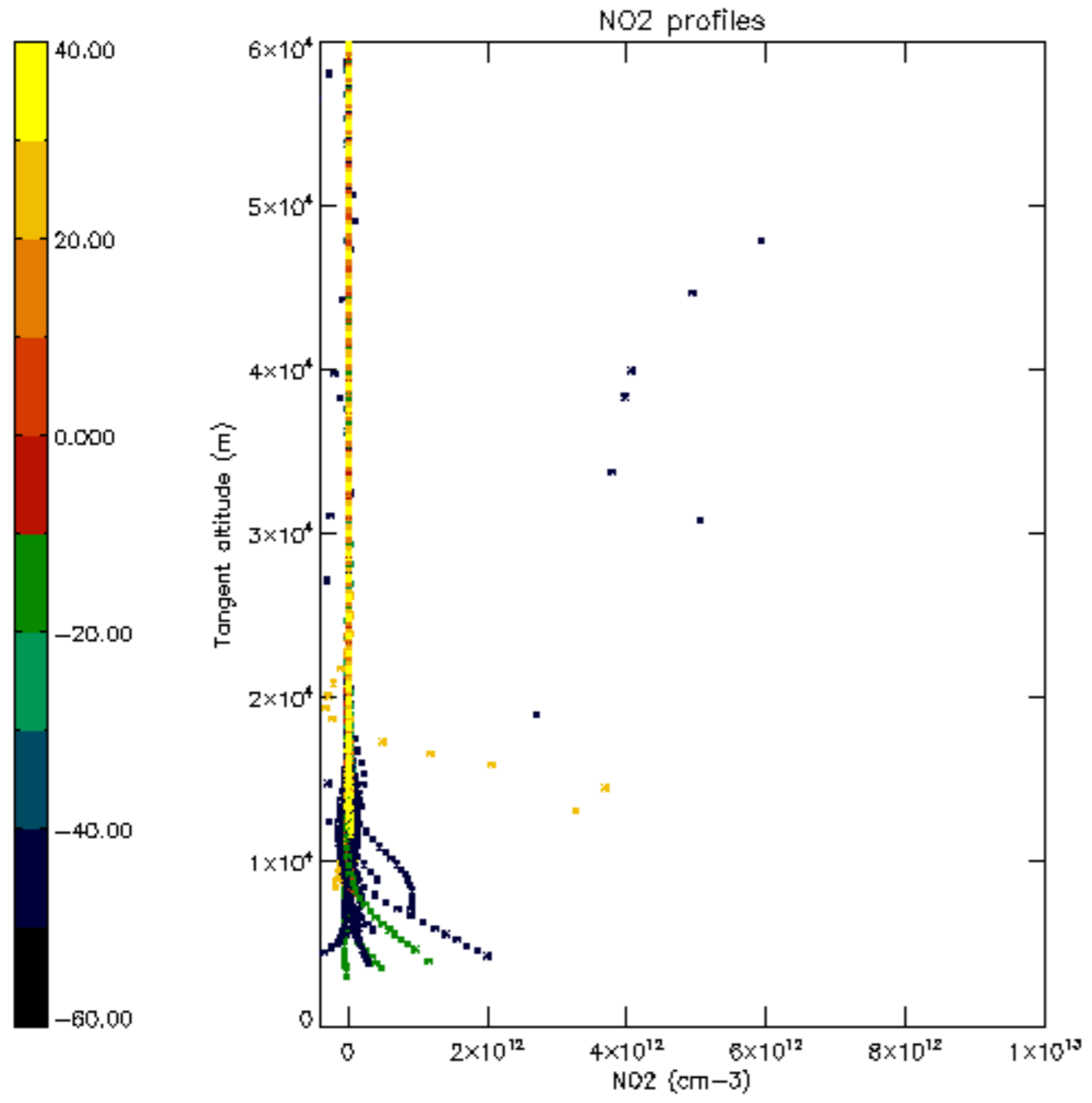


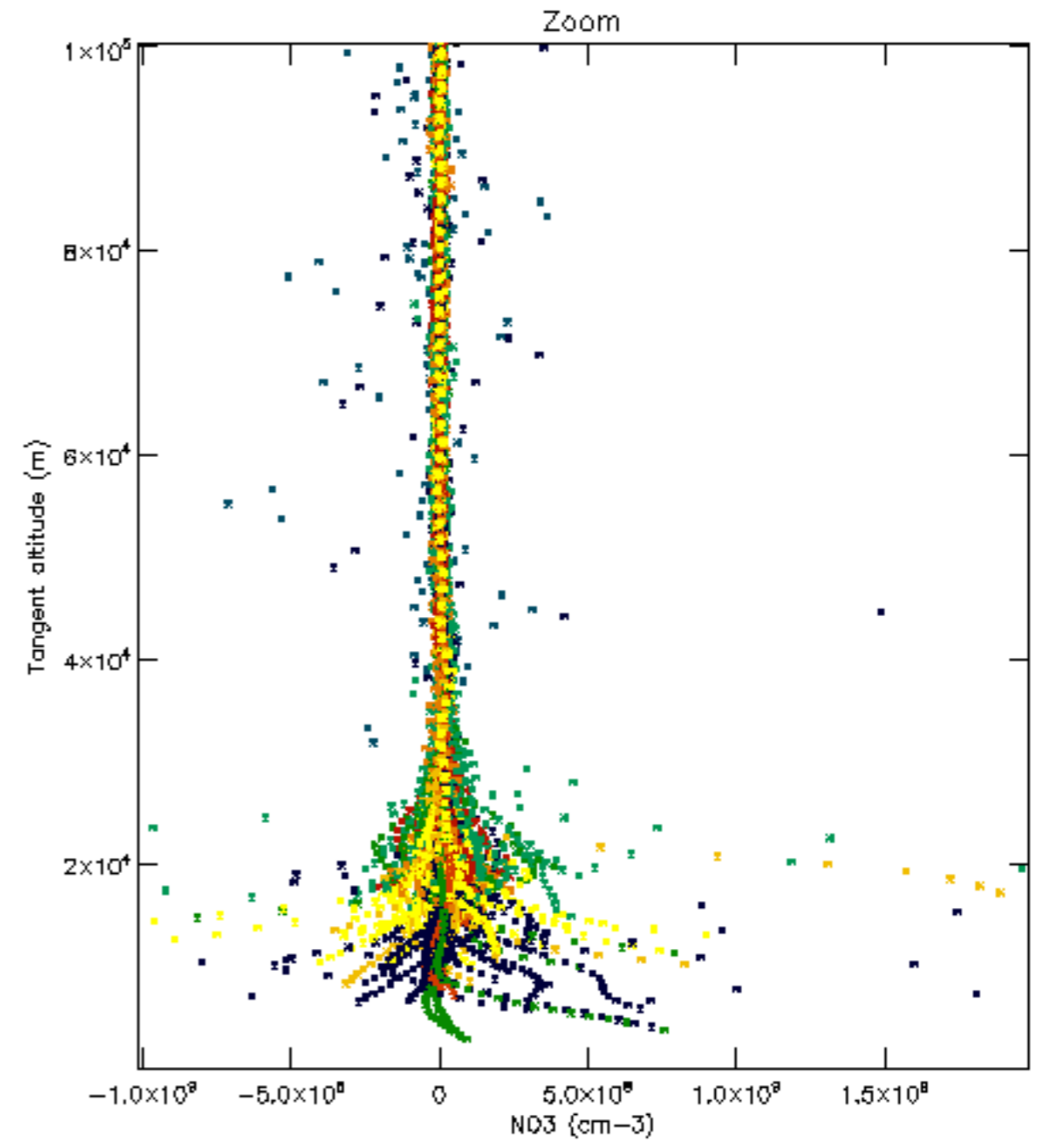
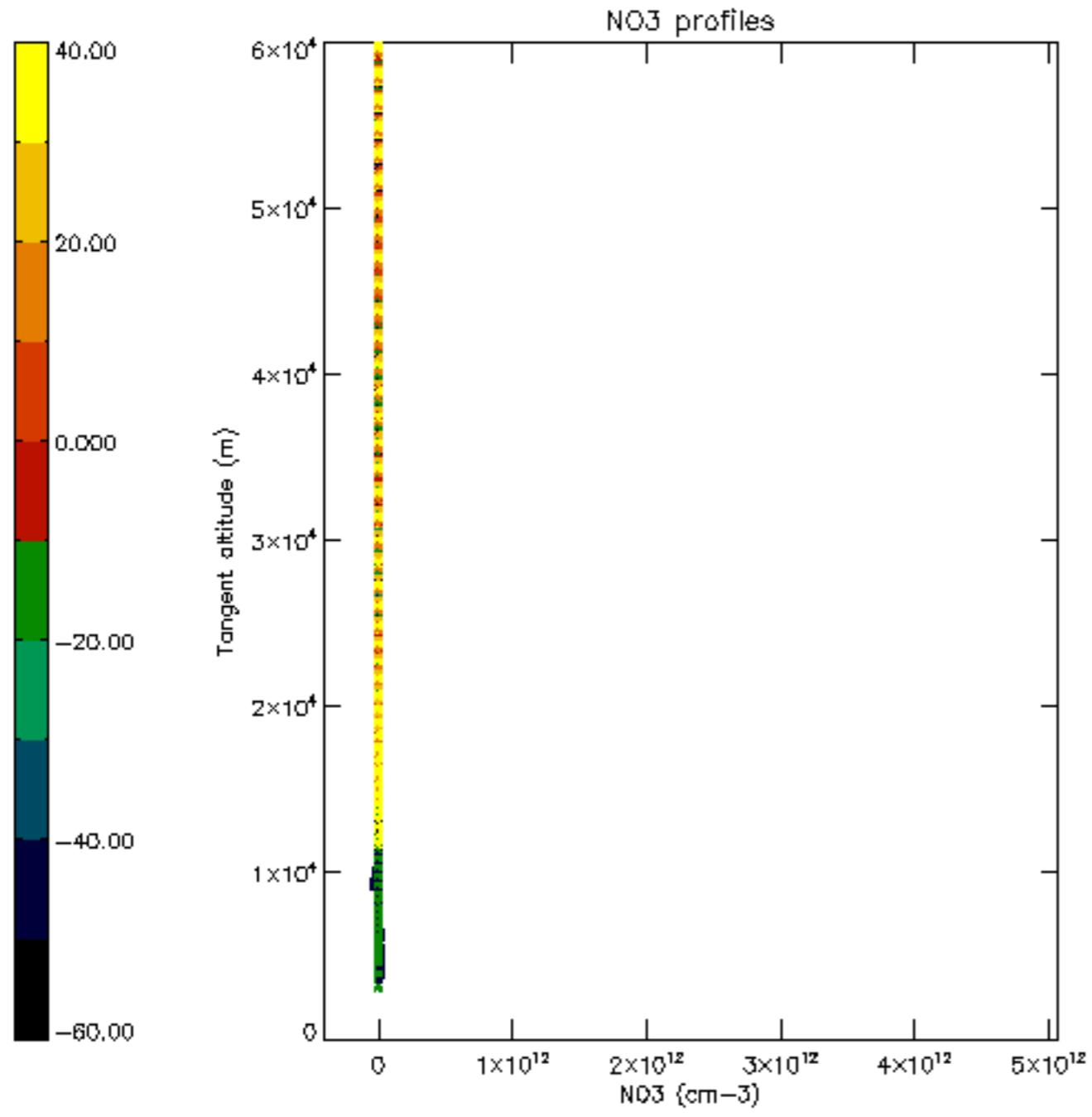




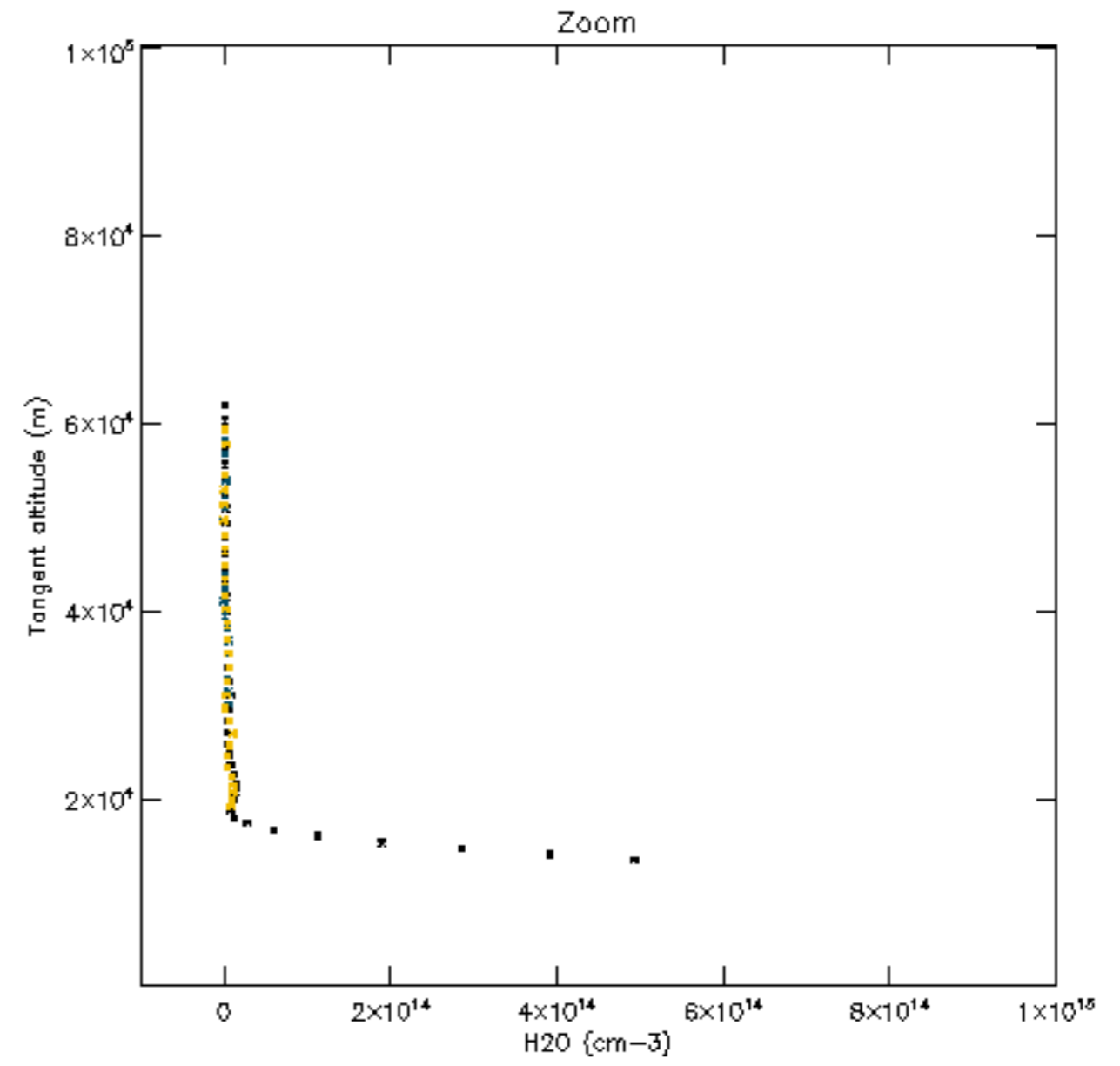
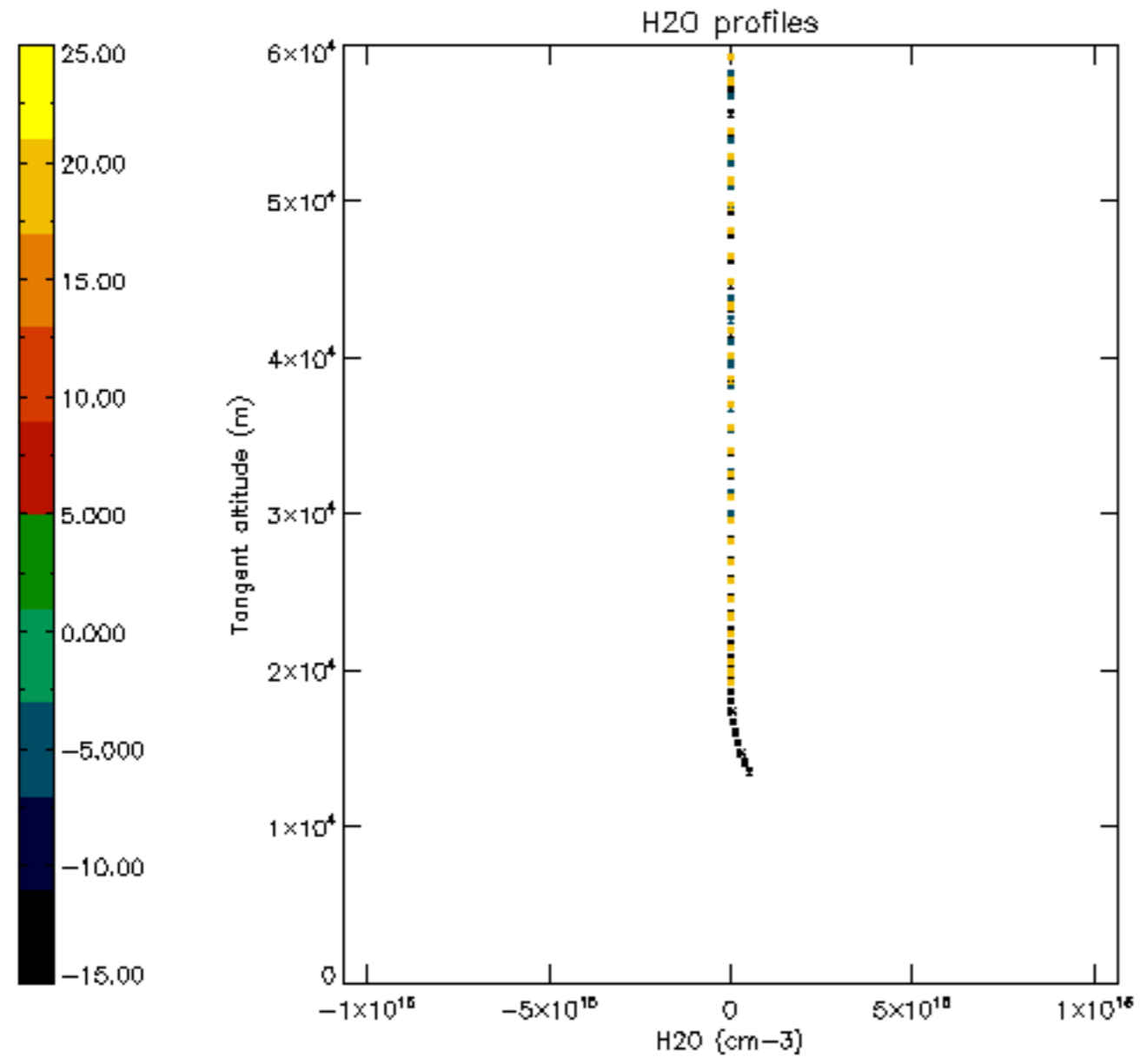


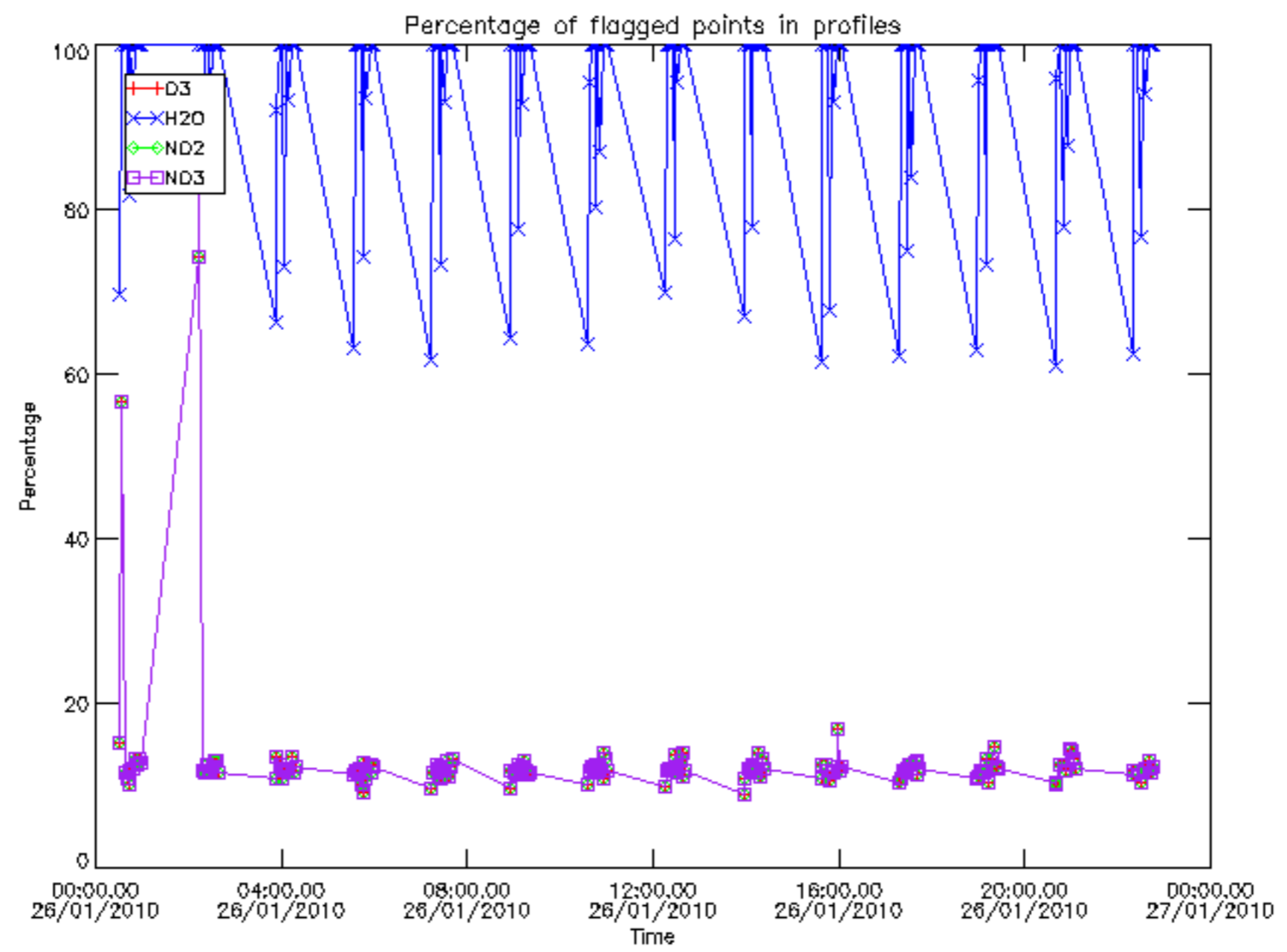




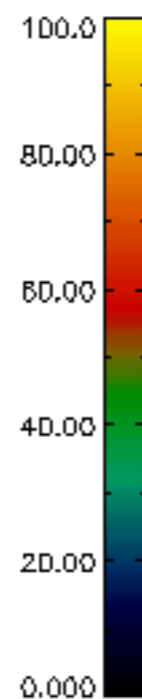
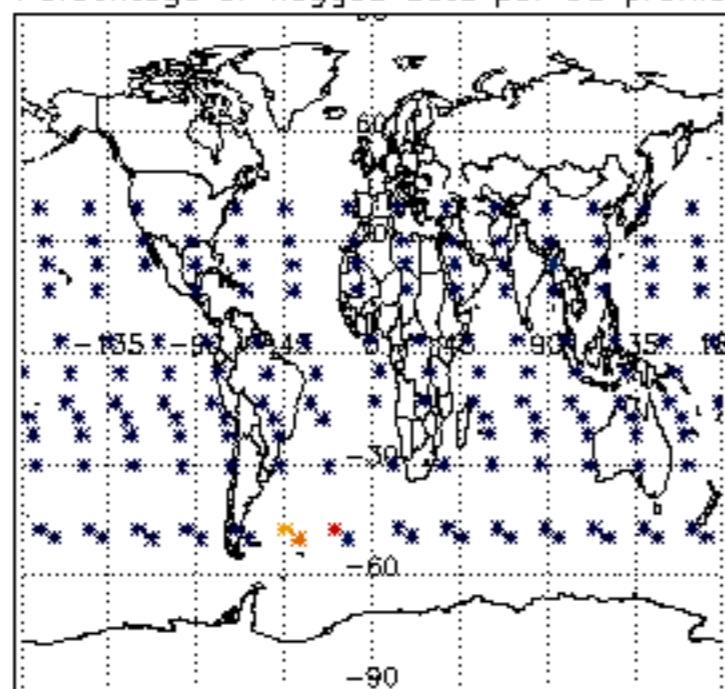




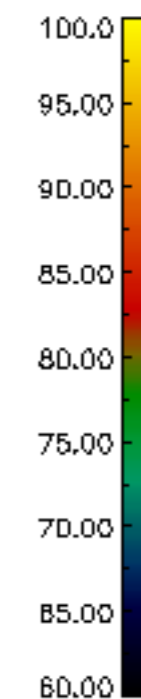
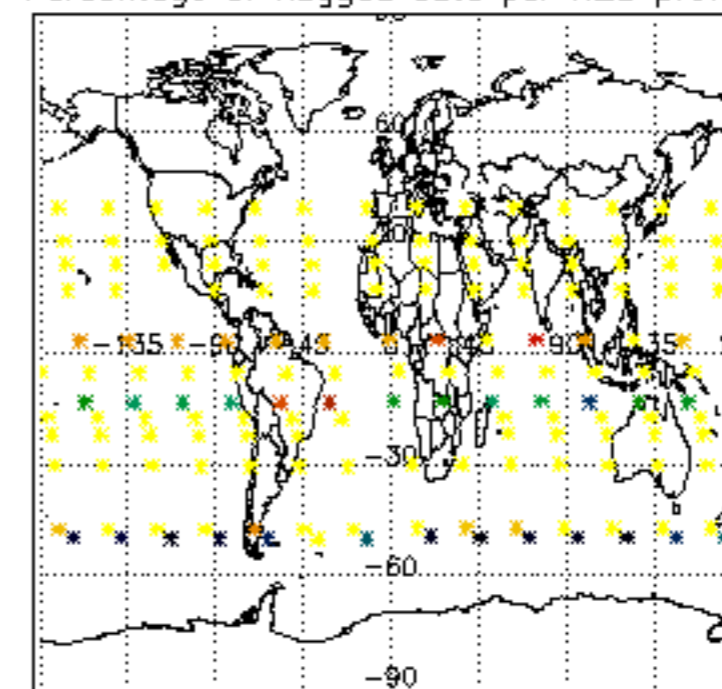




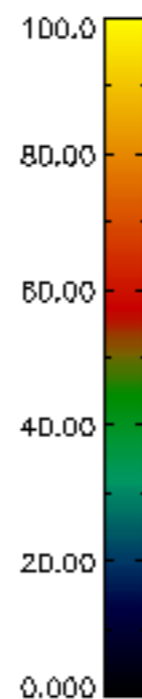
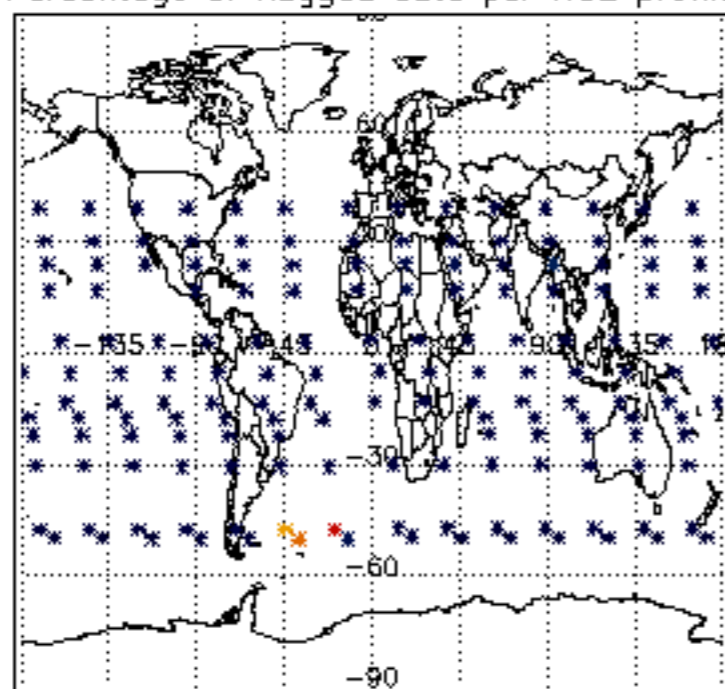
Percentage of flagged data per D3 profile



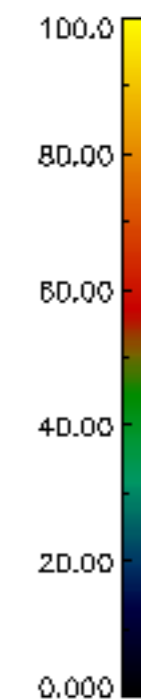
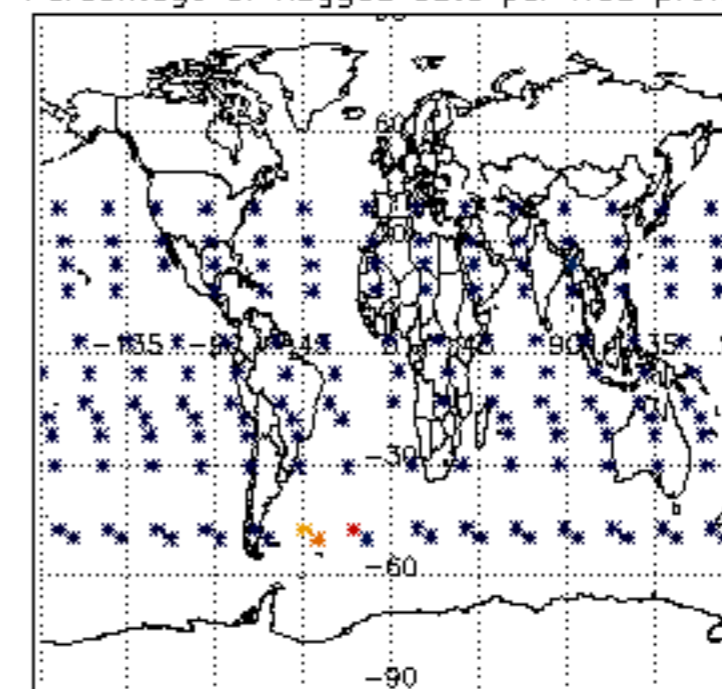
Percentage of flagged data per H2O profile

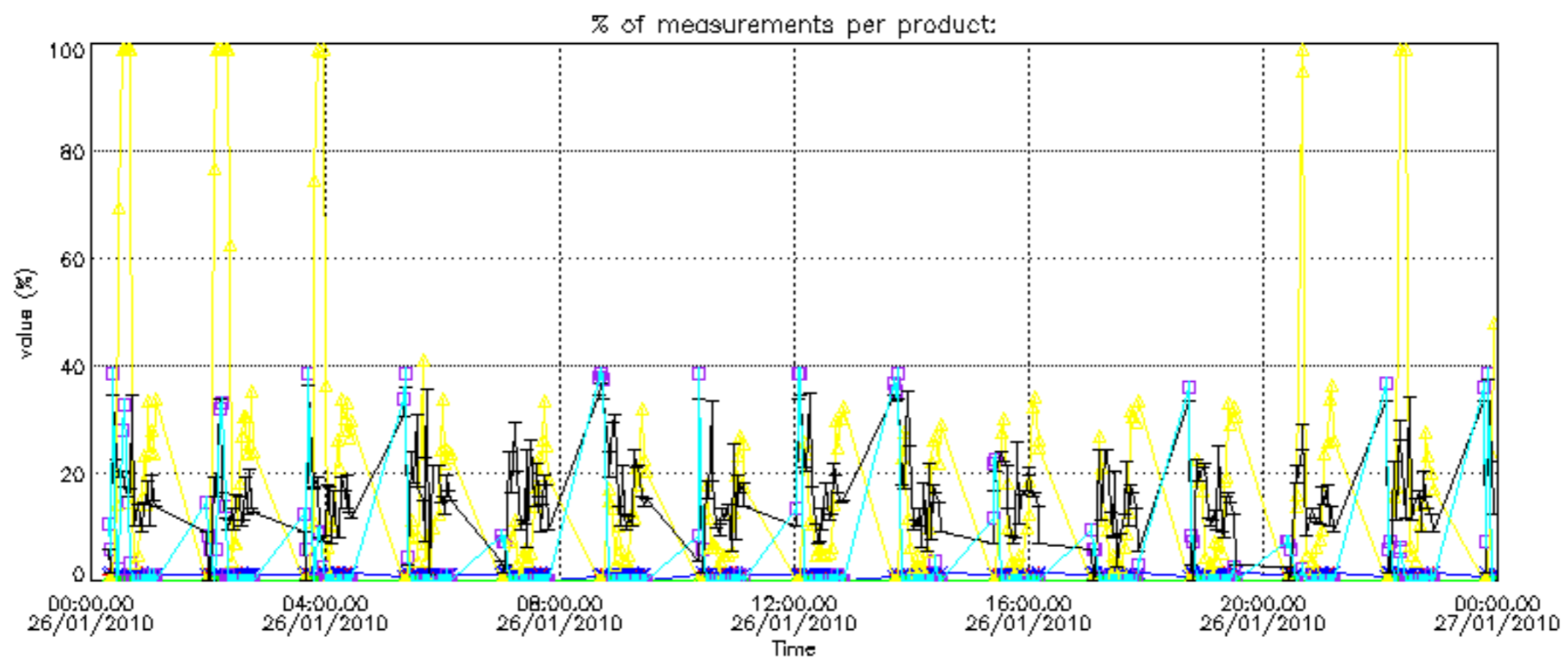
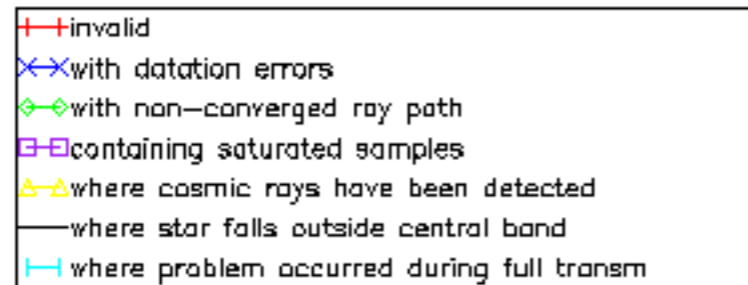


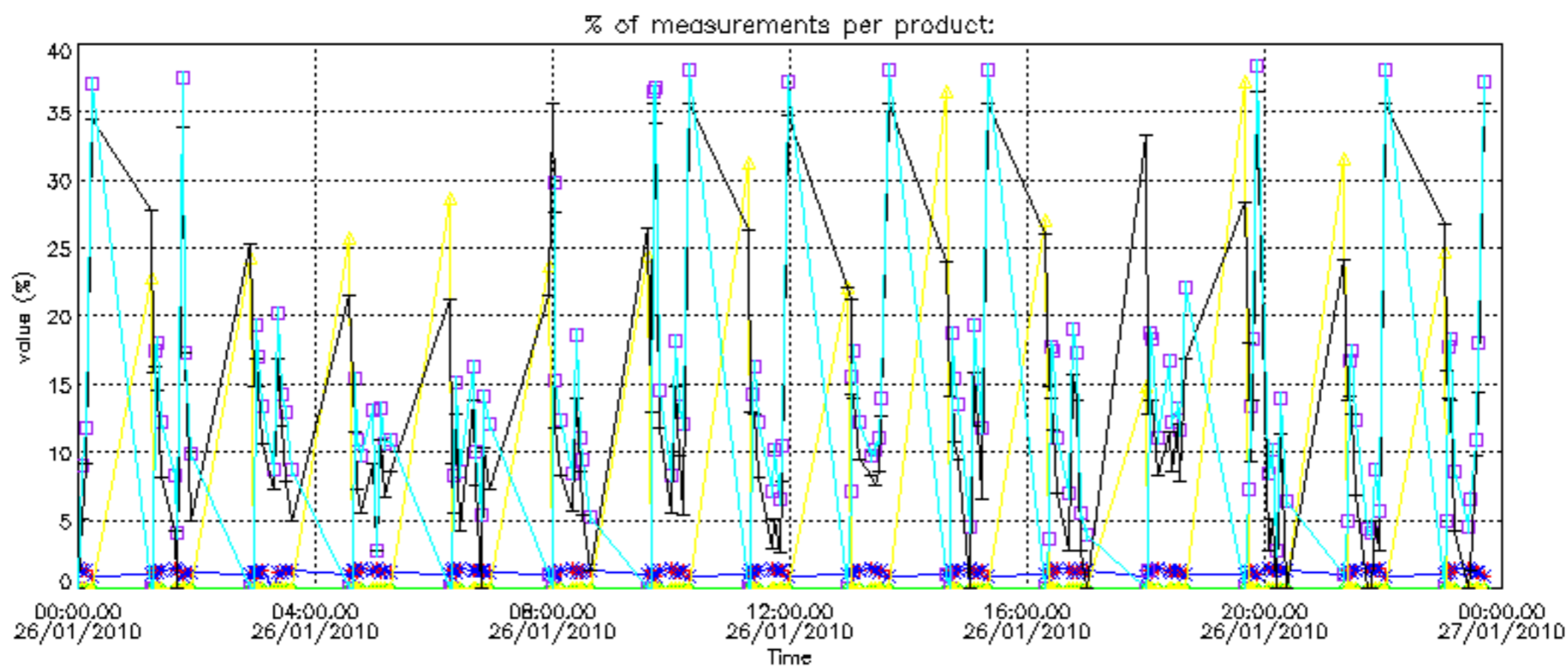
Percentage of flagged data per NO2 profile



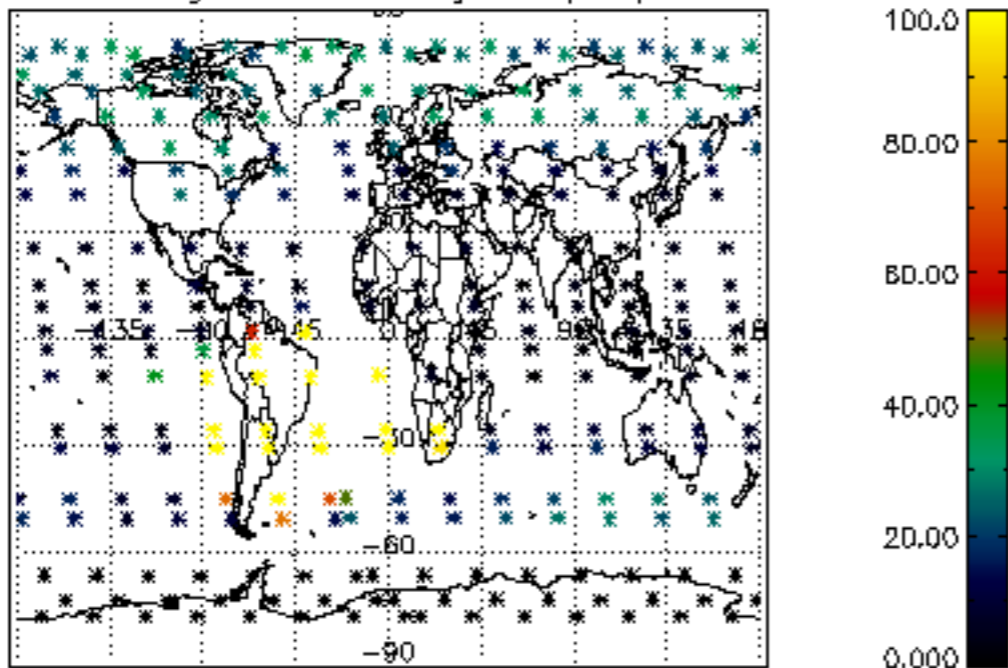
Percentage of flagged data per NO3 profile



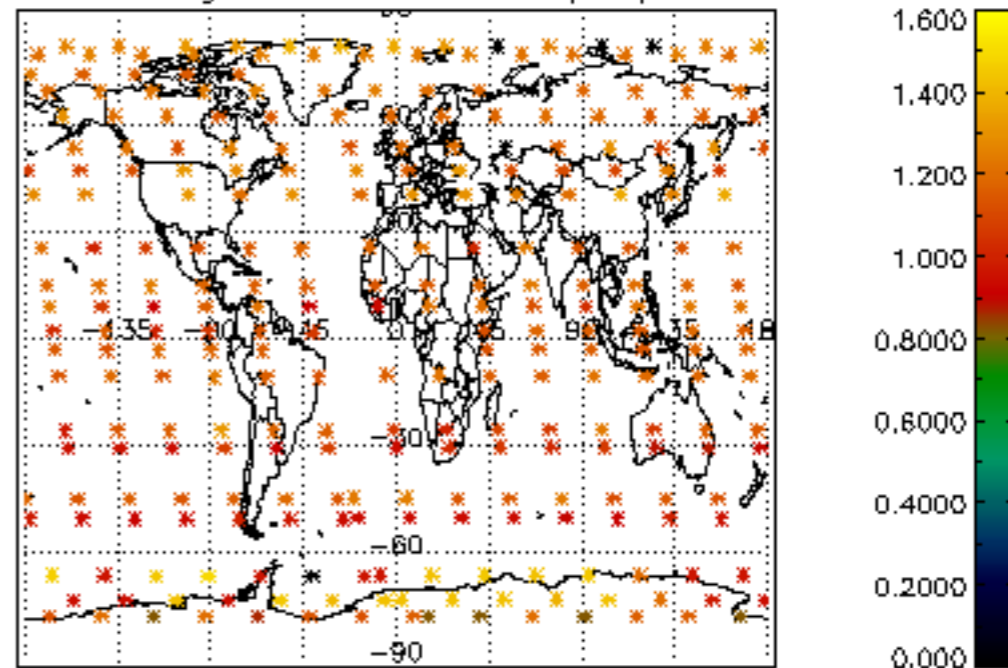




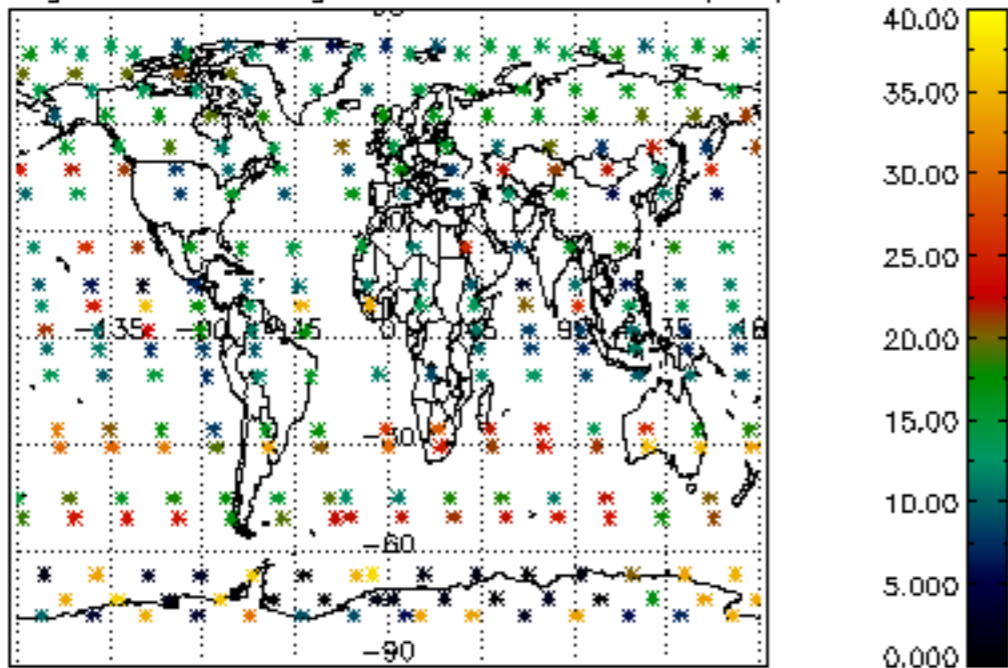
Percentage of cosmic ray hits per profile



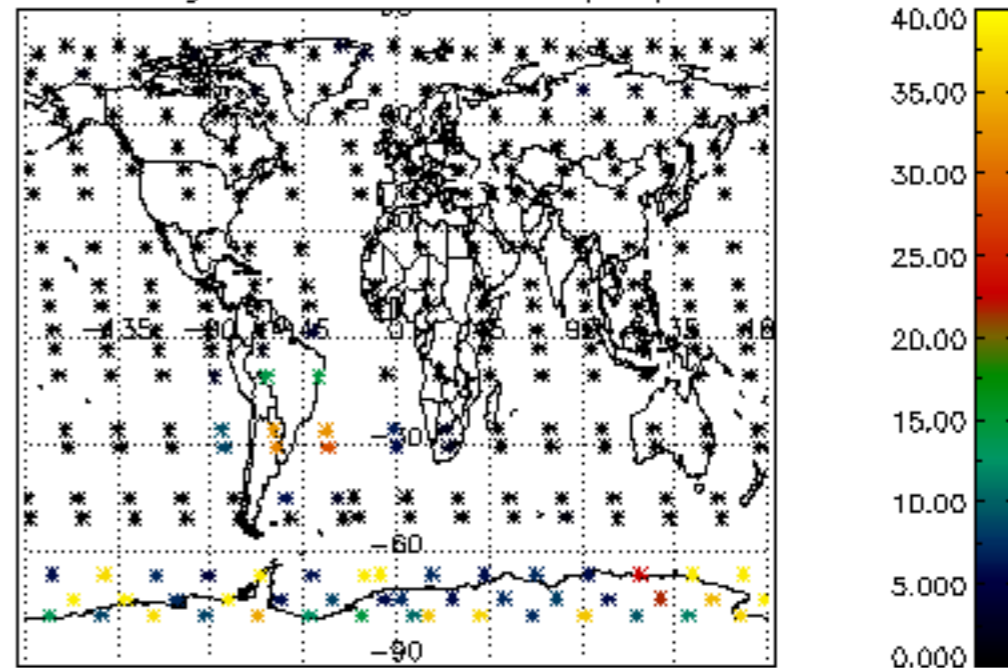
Percentage of datation errors per profile



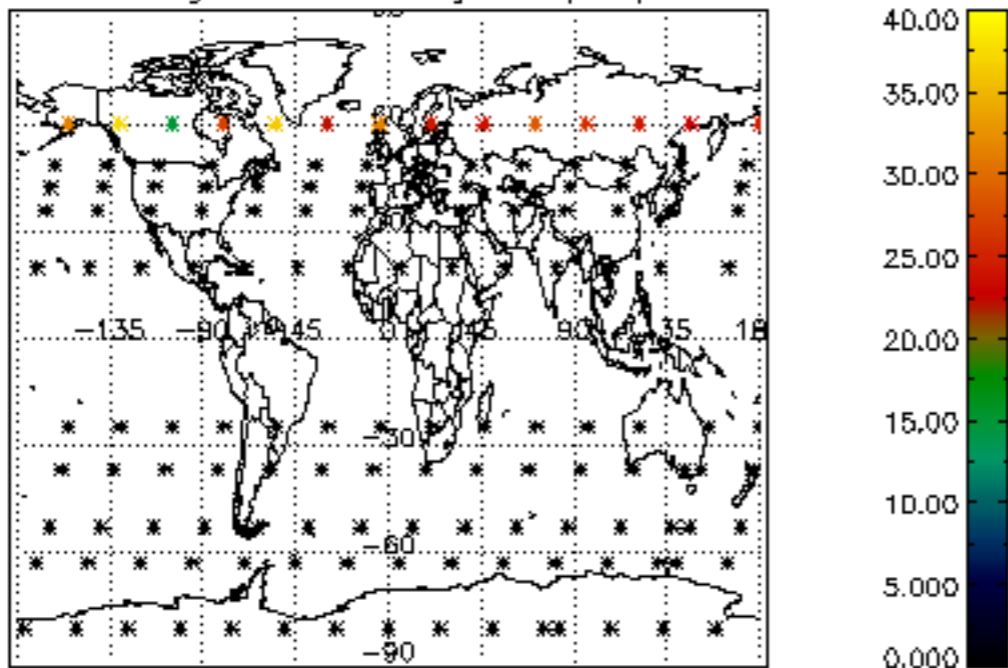
Percentage of star falling outside central band per profile



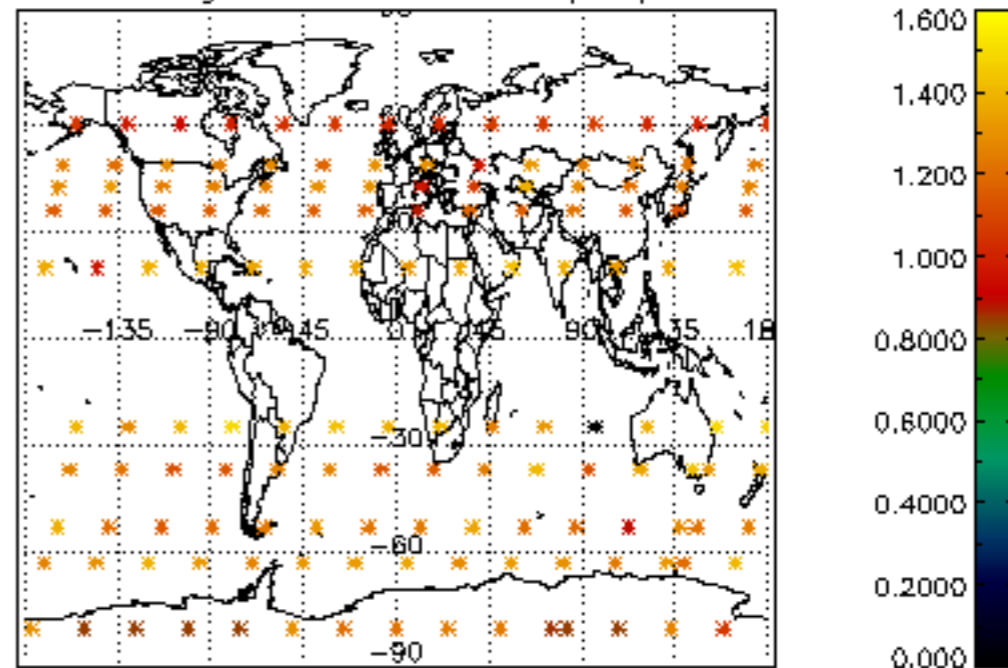
Percentage of saturation errors per profile



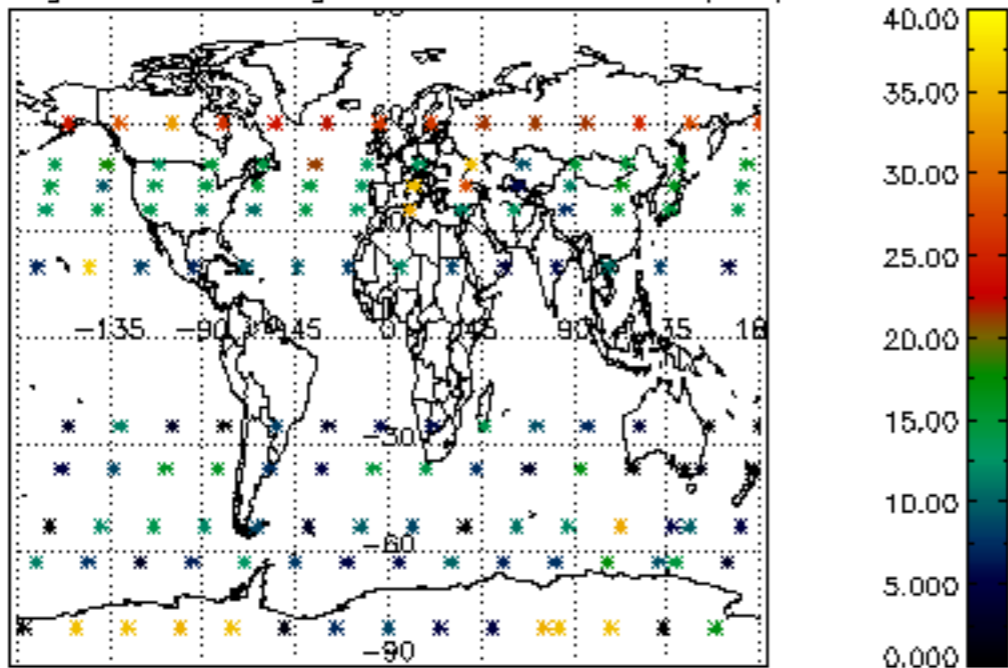
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

