

# GOMOS Level 2 Daily Report

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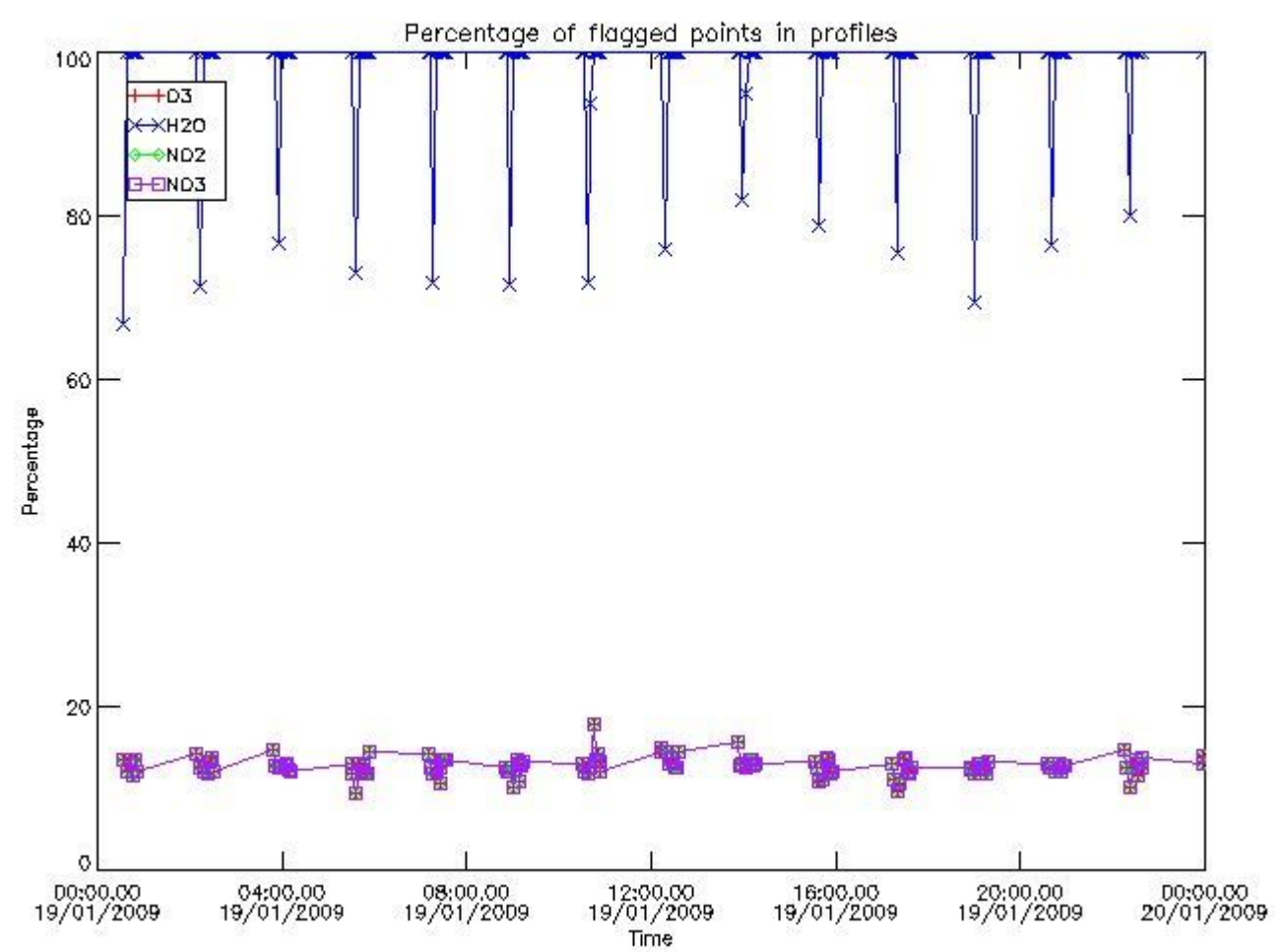


397	GOM_NL__2PRFIN20090119_223215_000000402075_00402_36027_5407.N1	19-JAN-2009 22:32:15	Dark	39.500	71	lot Car	2.2460	7700.0	79	36027	No
398	GOM_NL__2PRFIN20090119_223405_000000442075_00402_36027_5408.N1	19-JAN-2009 22:34:05	Dark	44.000	46	Del Vel	1.9540	10600.	88	36027	No
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402	GOM_NL__2PRFIN20090119_224257_000000432075_00402_36027_5412.N1	19-JAN-2009 22:42:57	Straylight	42.500	23	21Eps CMa	1.5020	26000.	85	36027	No
403	GOM_NL__2PRFIN20090119_224421_000000402075_00402_36027_5413.N1	19-JAN-2009 22:44:21	Straylight	40.000	179	24Omi2CMa	3.0320	24000.	80	36027	No
404	GOM_NL__2PRFIN20090119_224632_000000422075_00402_36027_5414.N1	19-JAN-2009 22:46:32	Straylight	41.500	1	9Alp CMa	-1.4400	11000.	83	36027	No
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410	GOM_NL__2PRFIN20090119_231640_000000362075_00402_36027_5420.N1	19-JAN-2009 23:16:40	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	36027	No
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412	GOM_NL__2PRFIN20090119_232451_000000372075_00402_36027_5422.N1	19-JAN-2009 23:24:51	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	36027	No
413	GOM_NL__2PRFIN20090119_232735_000000392075_00402_36027_5423.N1	19-JAN-2009 23:27:35	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	36027	No
414	GOM_NL__2PRFIN20090119_233357_000000562075_00402_36027_5424.N1	19-JAN-2009 23:33:57	Bright	56.000	133	40Zet Her	2.8070	6000.0	112	36027	No
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417	GOM_NL__2PRFIN20090119_234055_000000342075_00402_36027_5427.N1	19-JAN-2009 23:40:55	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	36027	No
418	GOM_NL__2PRFIN20090119_234504_000000472075_00402_36027_5428.N1	19-JAN-2009 23:45:04	Bright	47.000	120	1Del Oph	2.7340	3200.0	94	36027	No
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422	GOM_NL__2PRFIN20090119_235615_000000402075_00402_36027_5432.N1	19-JAN-2009 23:56:15	Dark	39.500	131	Gam Lup	2.8000	26000.	79	36027	No
423	GOM_NL__2PRFIN20090119_235808_000000402075_00402_36027_5433.N1	19-JAN-2009 23:58:08	Dark	40.000	109	Bet Lup	2.6770	26000.	80	36027	No

### 3. Quality information per product

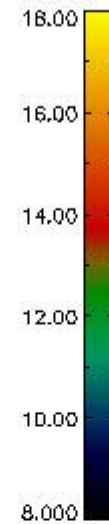
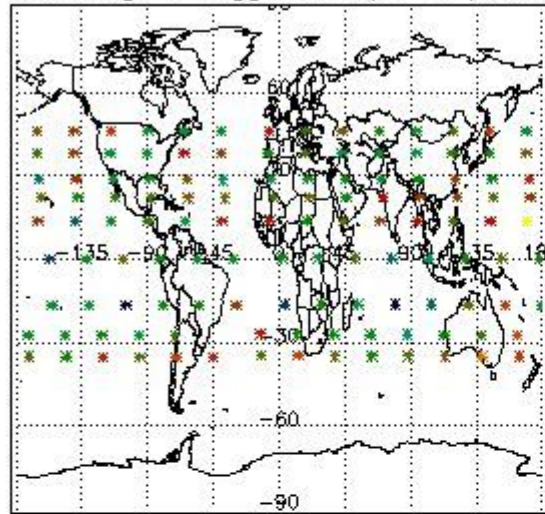
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

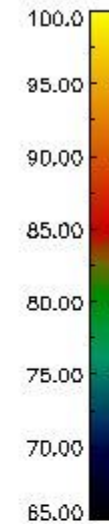
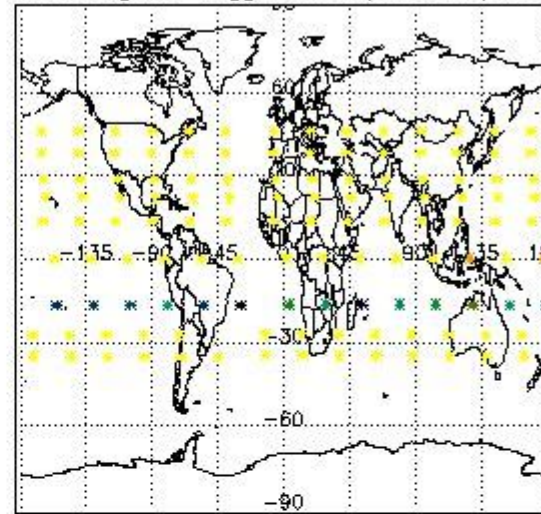


3.2 Plot quality information per product (world map)

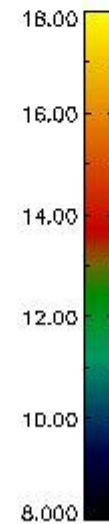
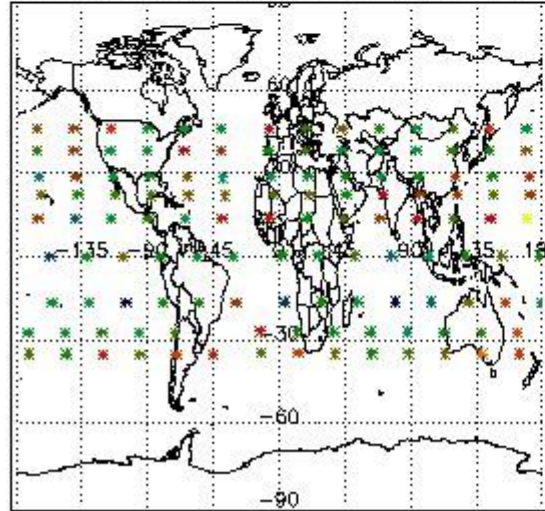
Percentage of flagged data per O3 profile



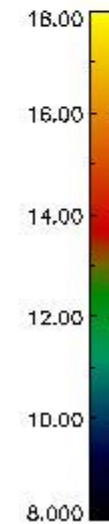
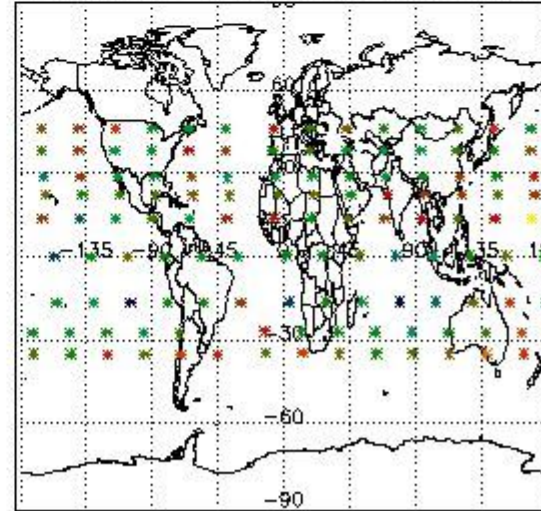
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

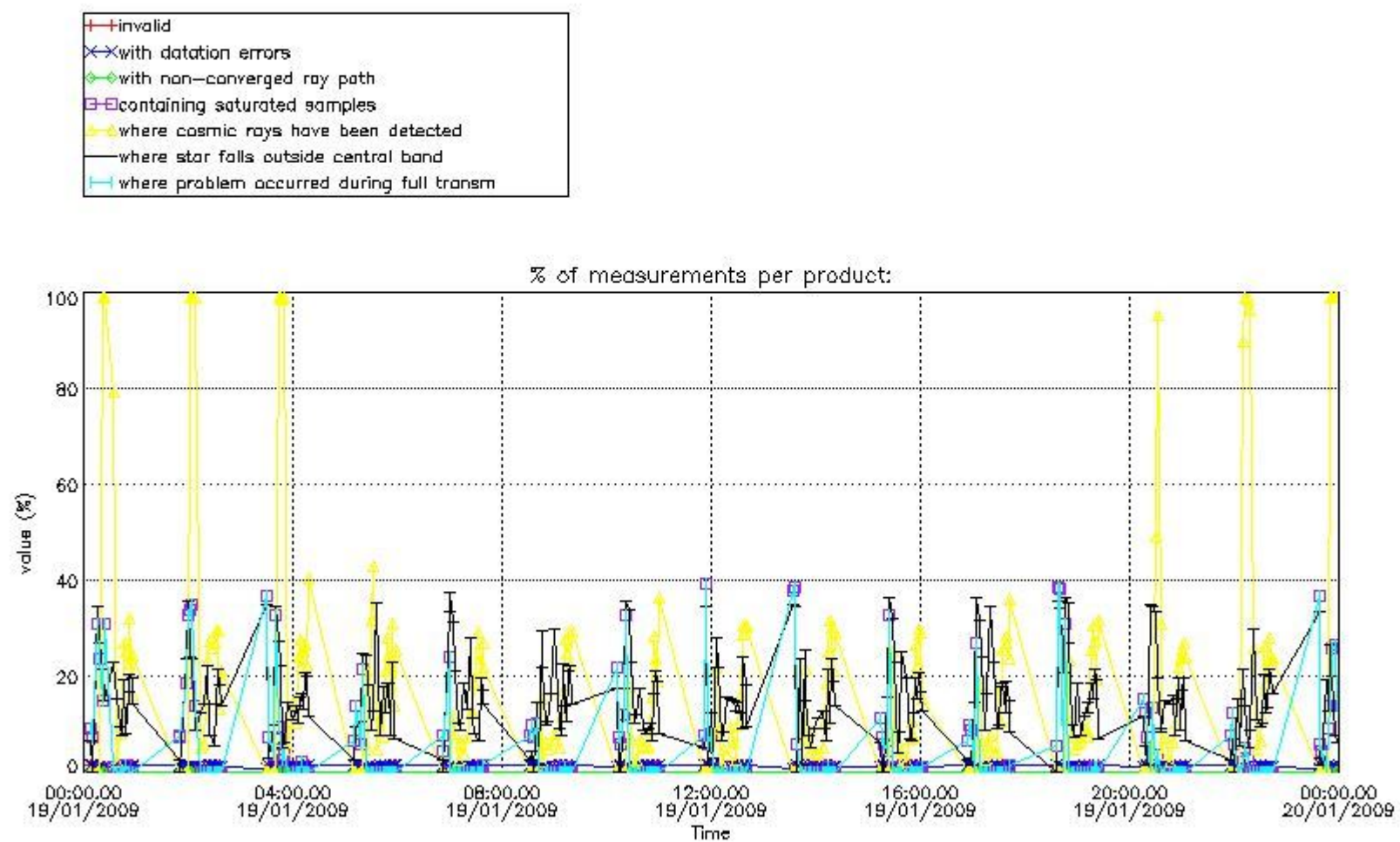


#### 4. Level 1 quality information per product

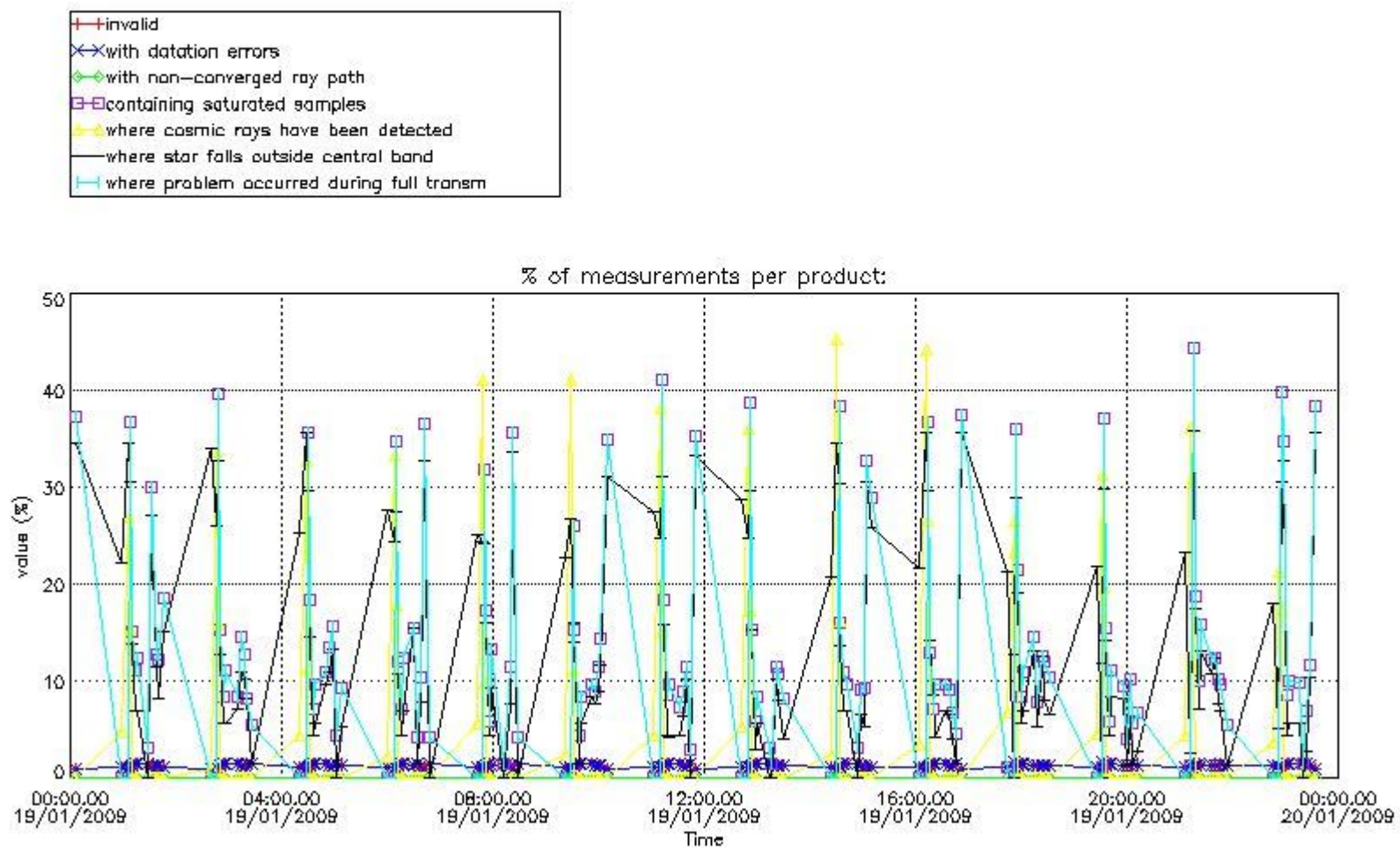
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

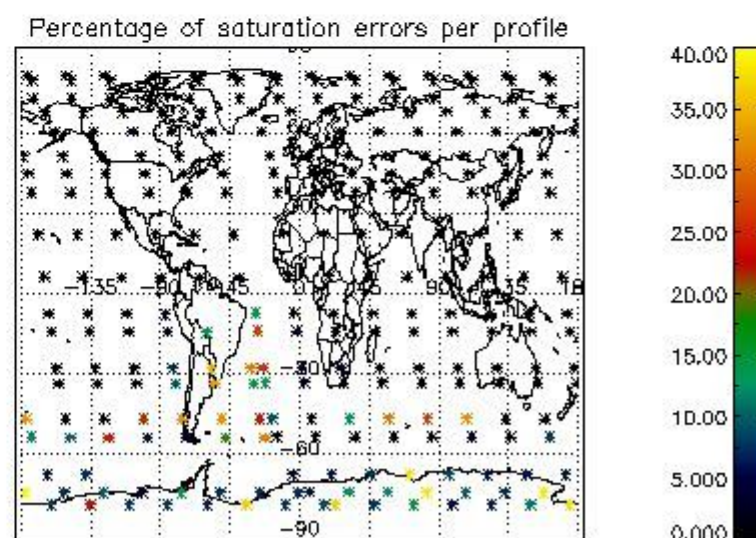
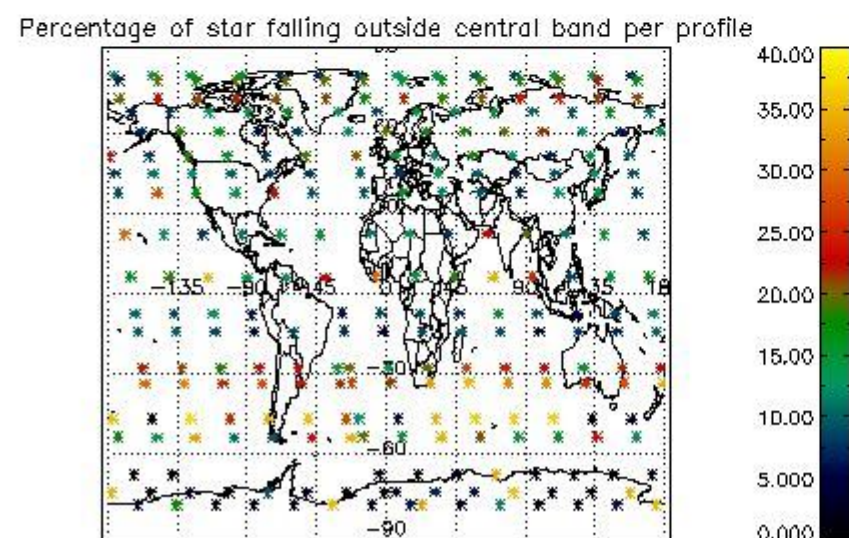
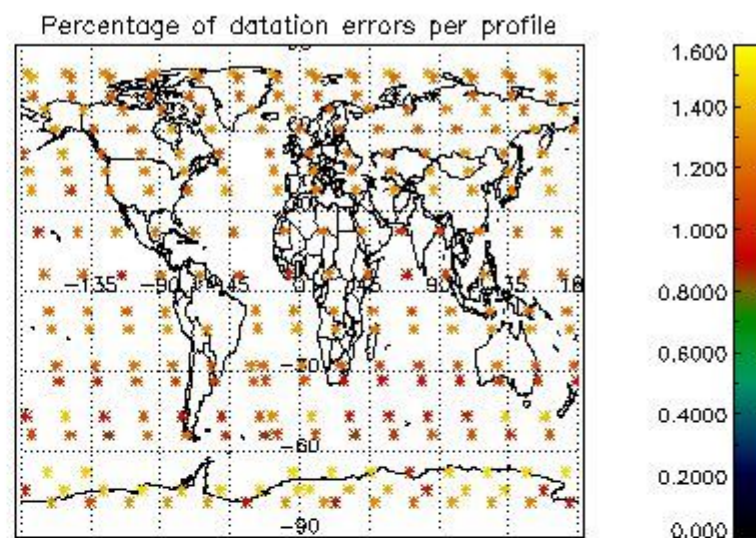
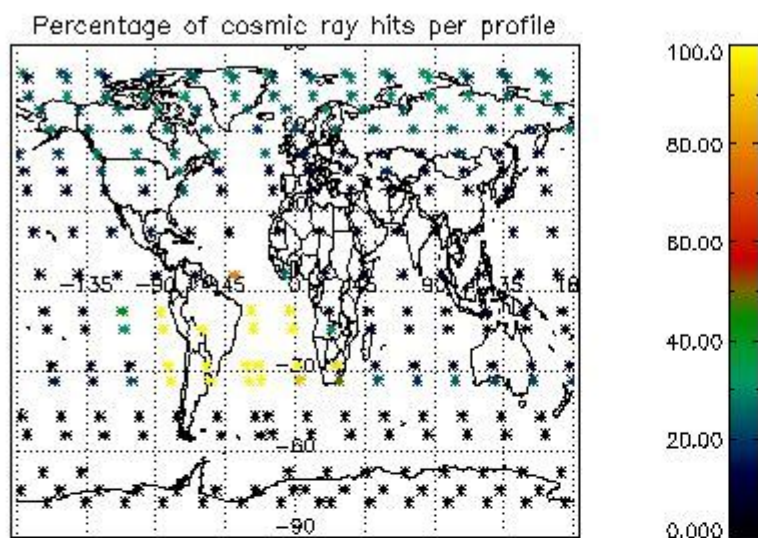


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

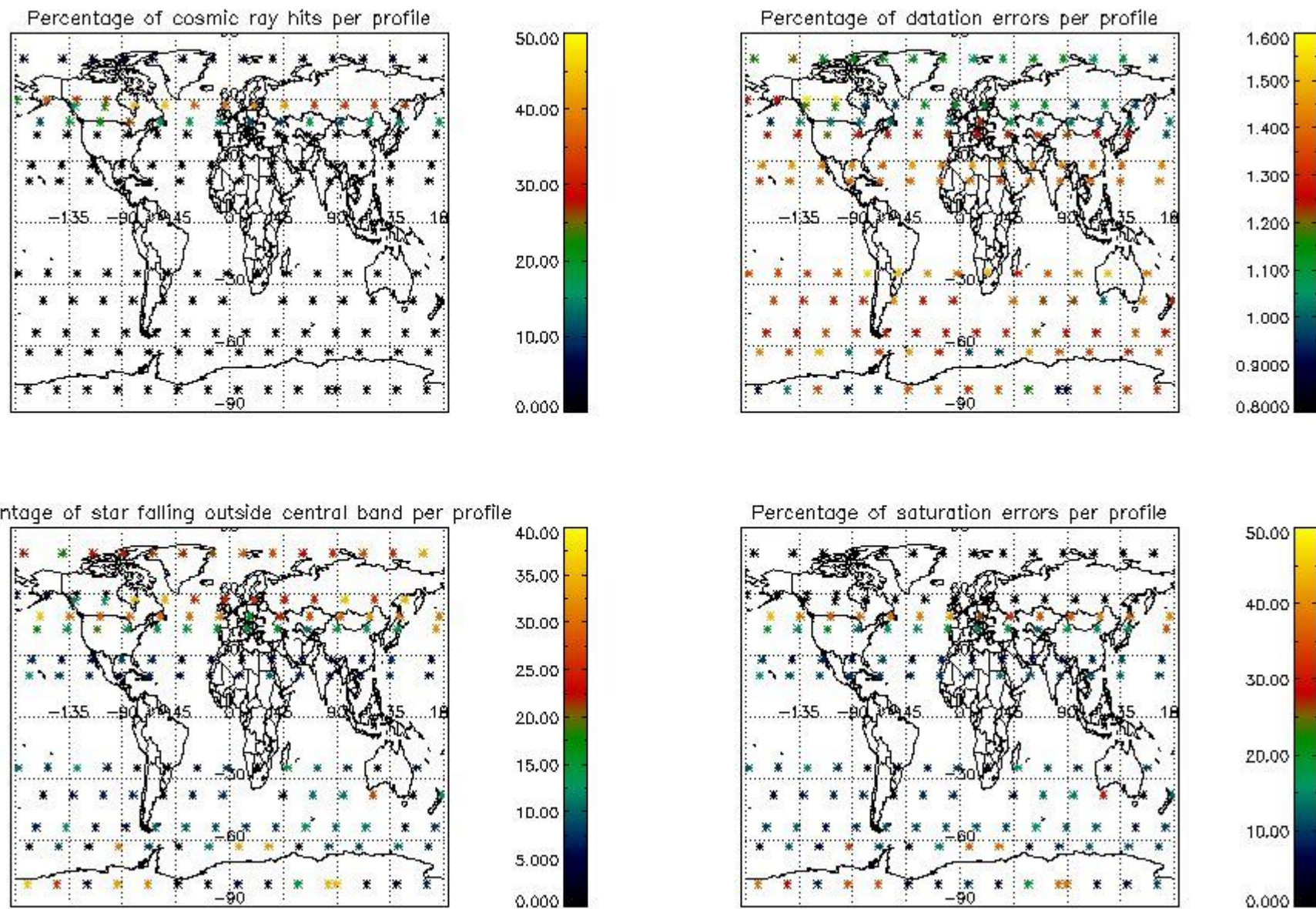


4.2 Plot quality information per product coming from level 1b processing (world map)

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

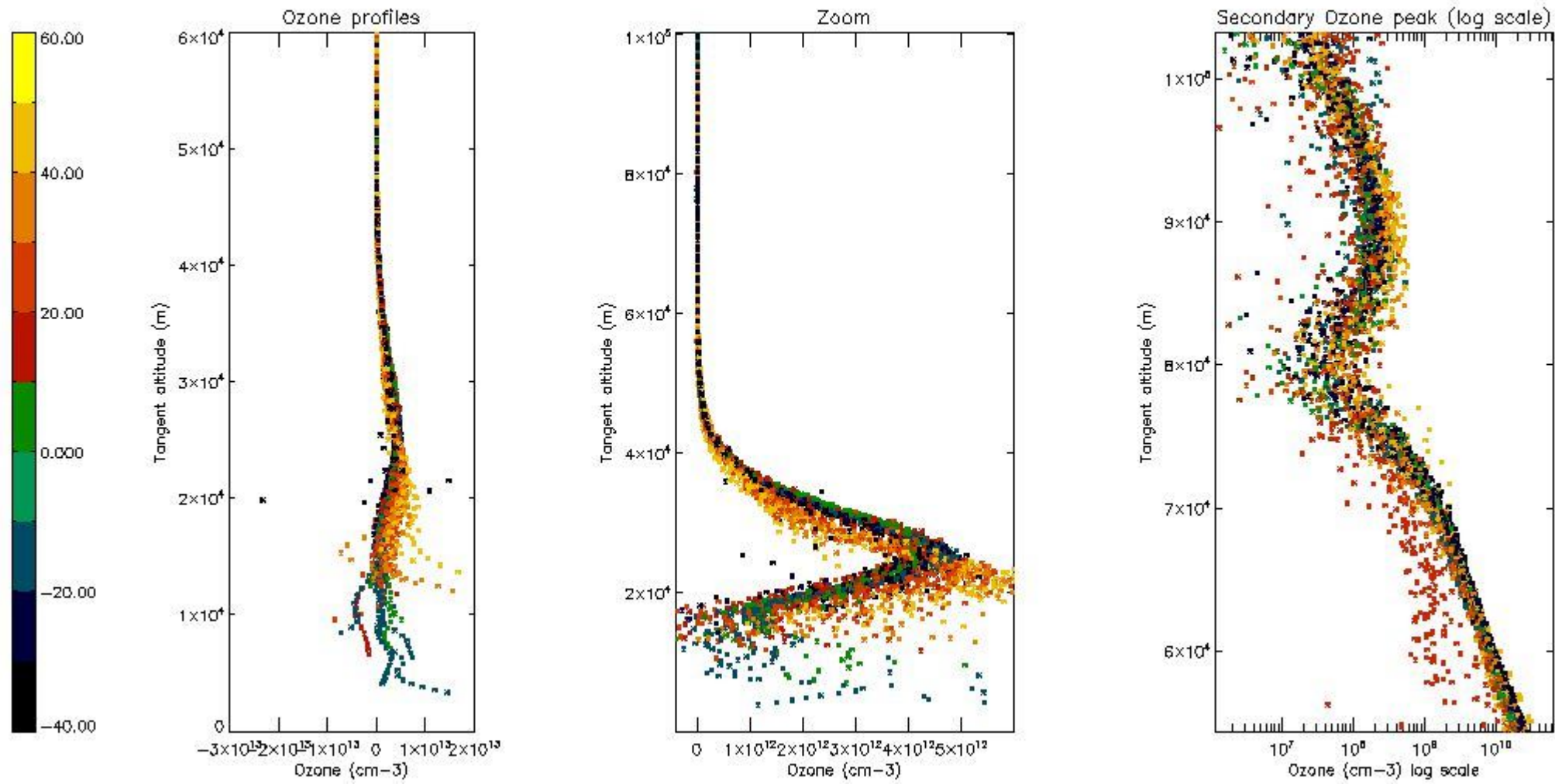
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	30
STD < 20	18

STD < 10	16
STD < 5	11

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

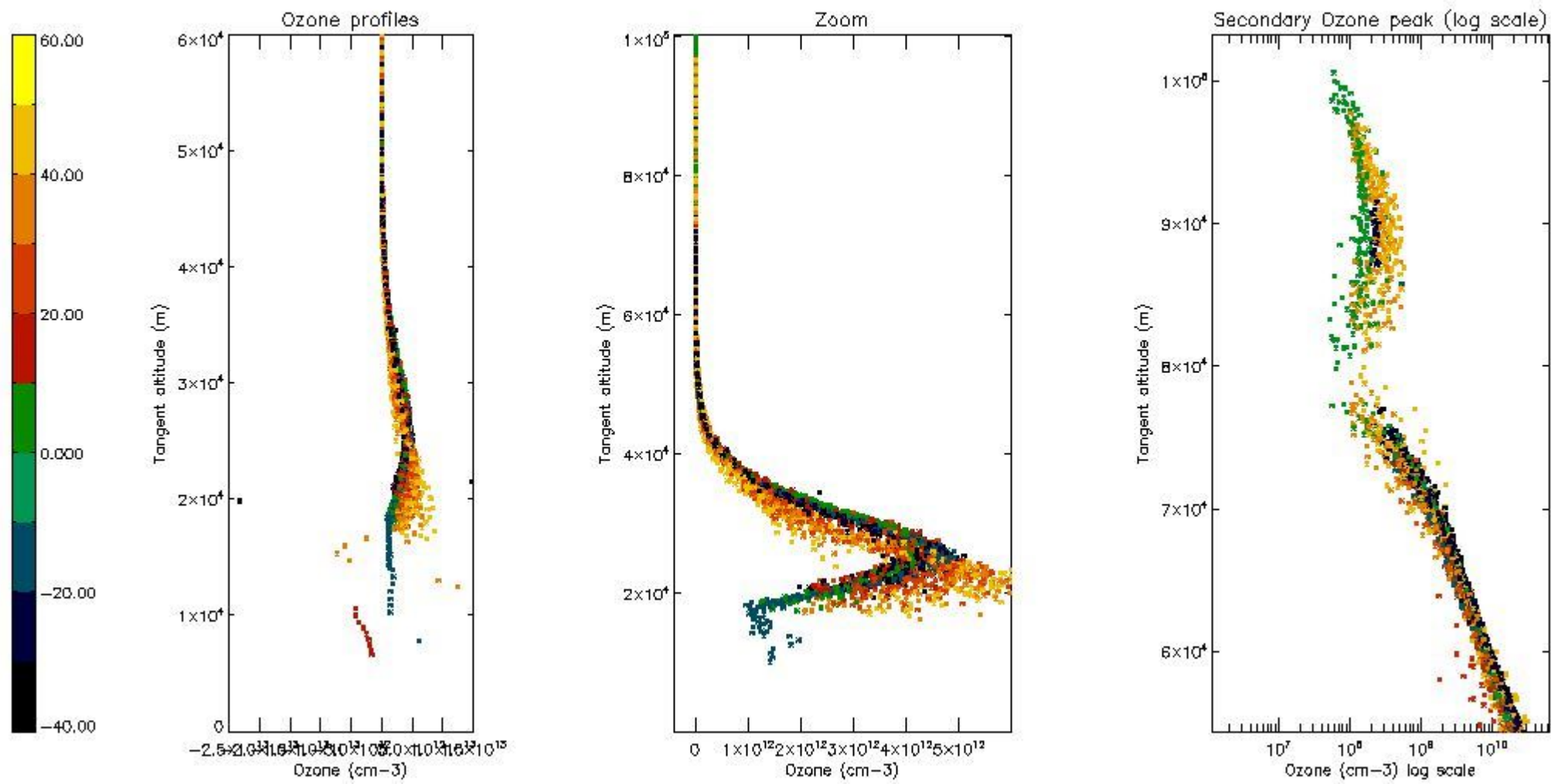
The colorbar represents the latitude.



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

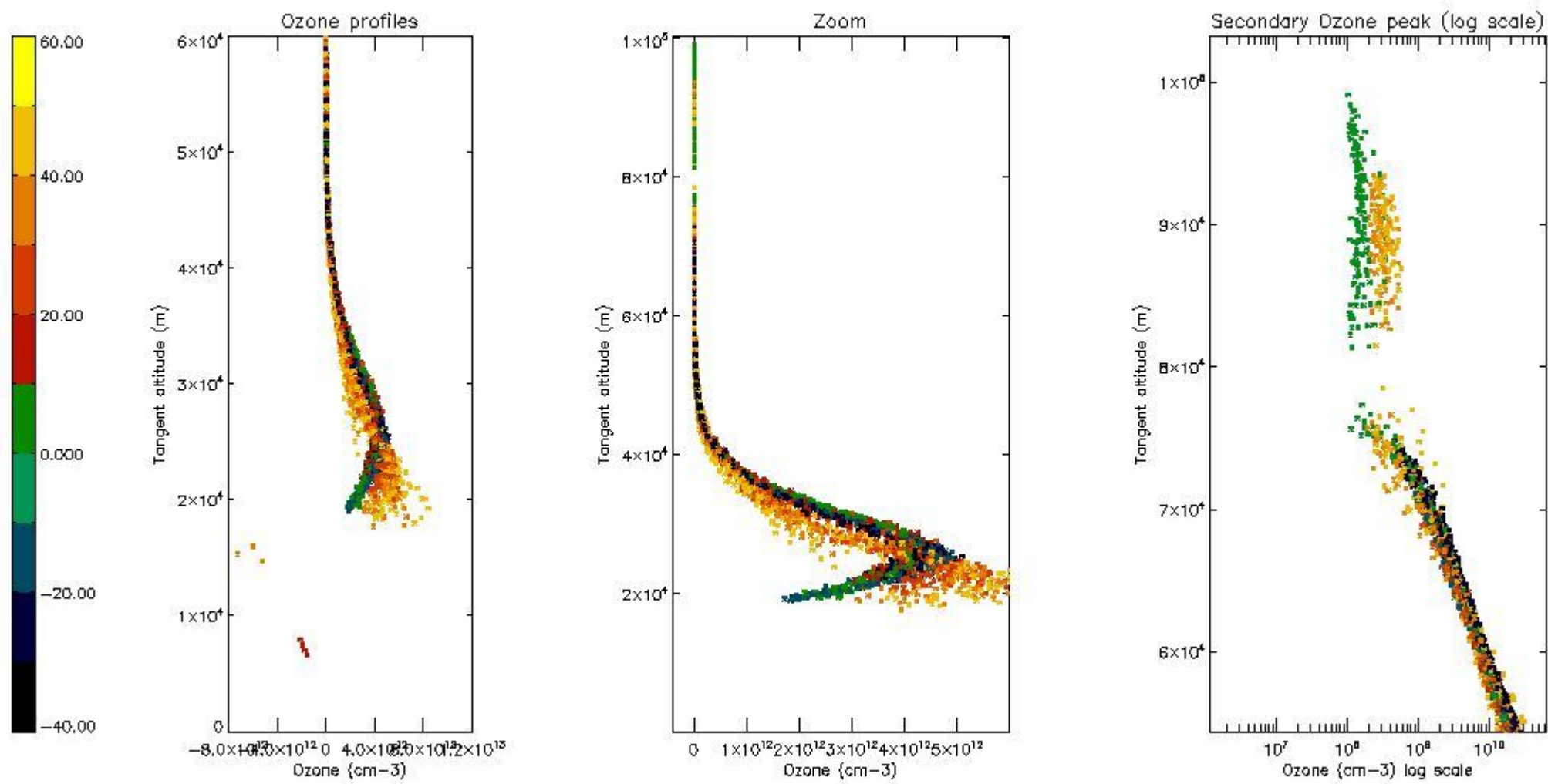
The colorbar represents the latitude.





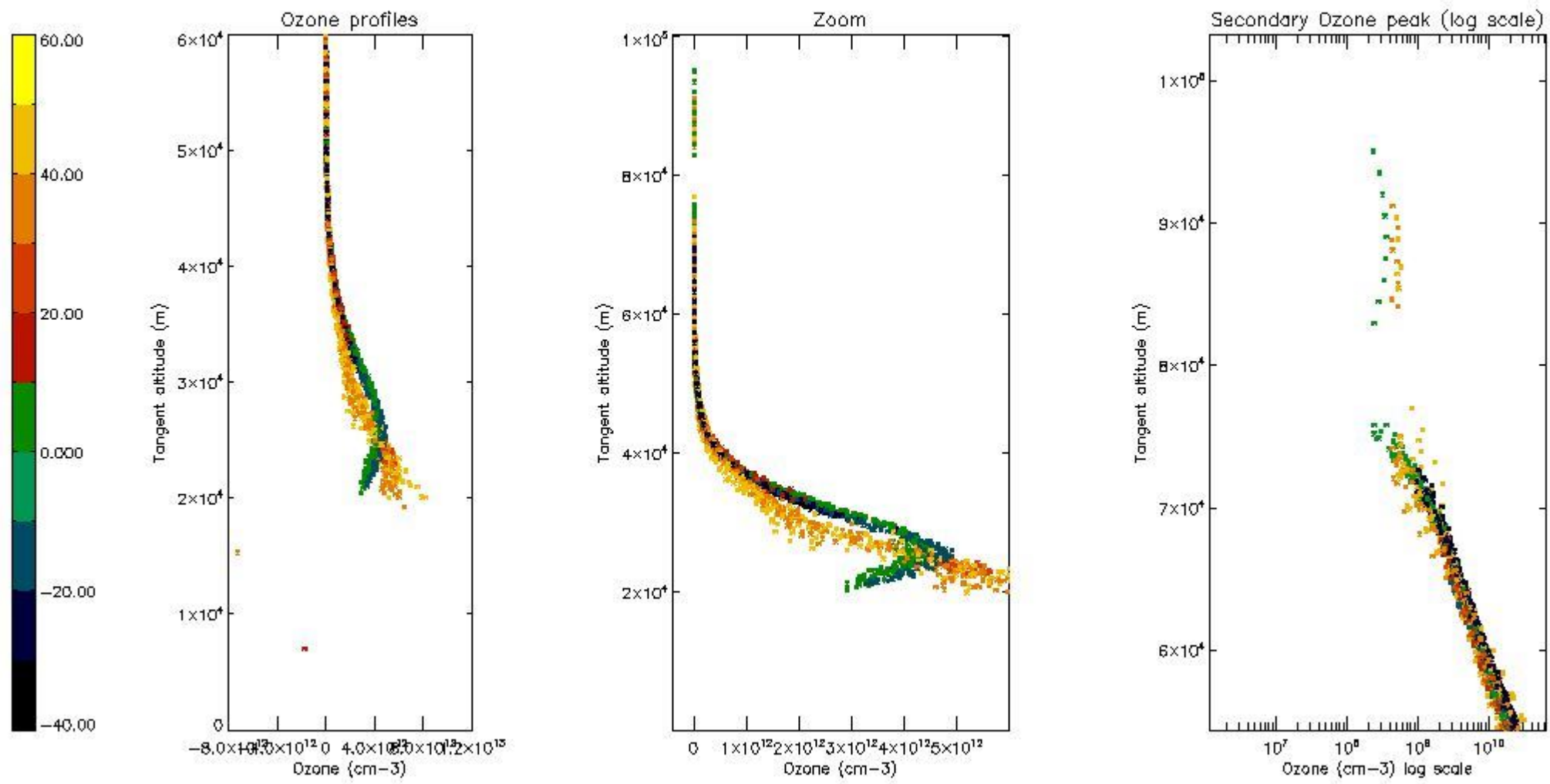
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



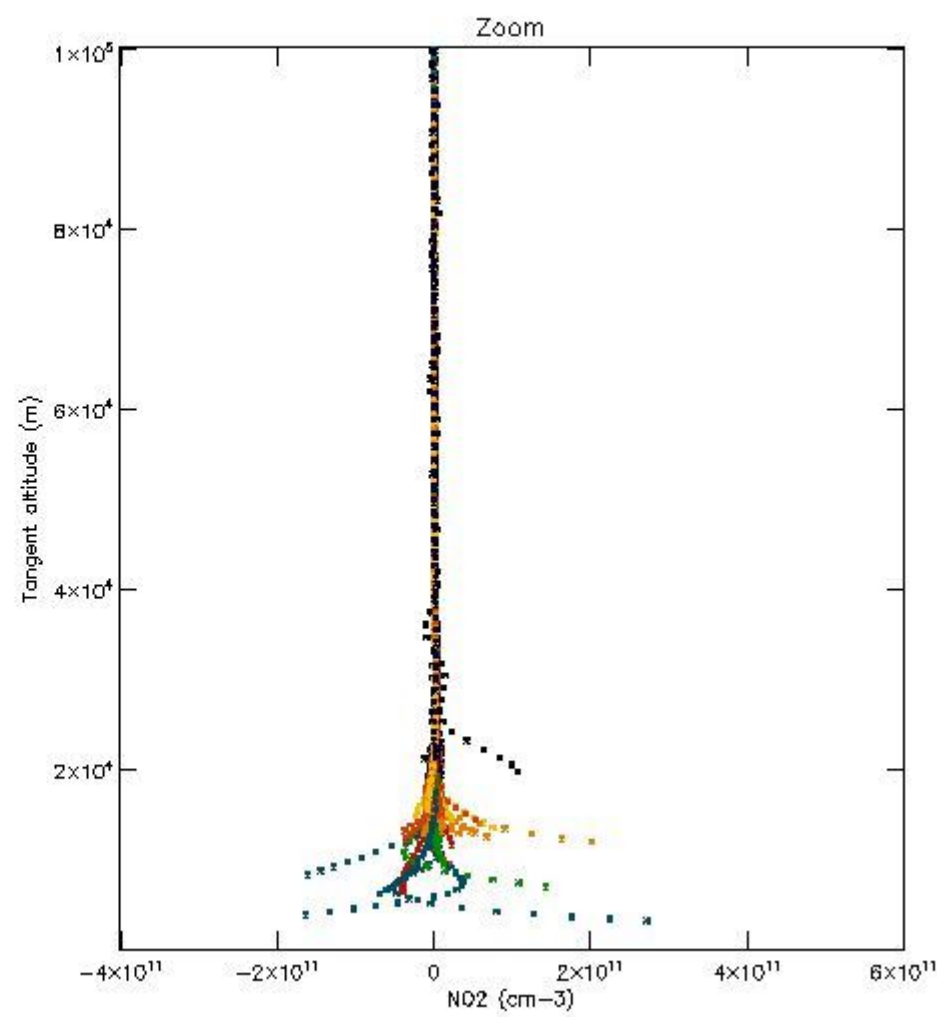
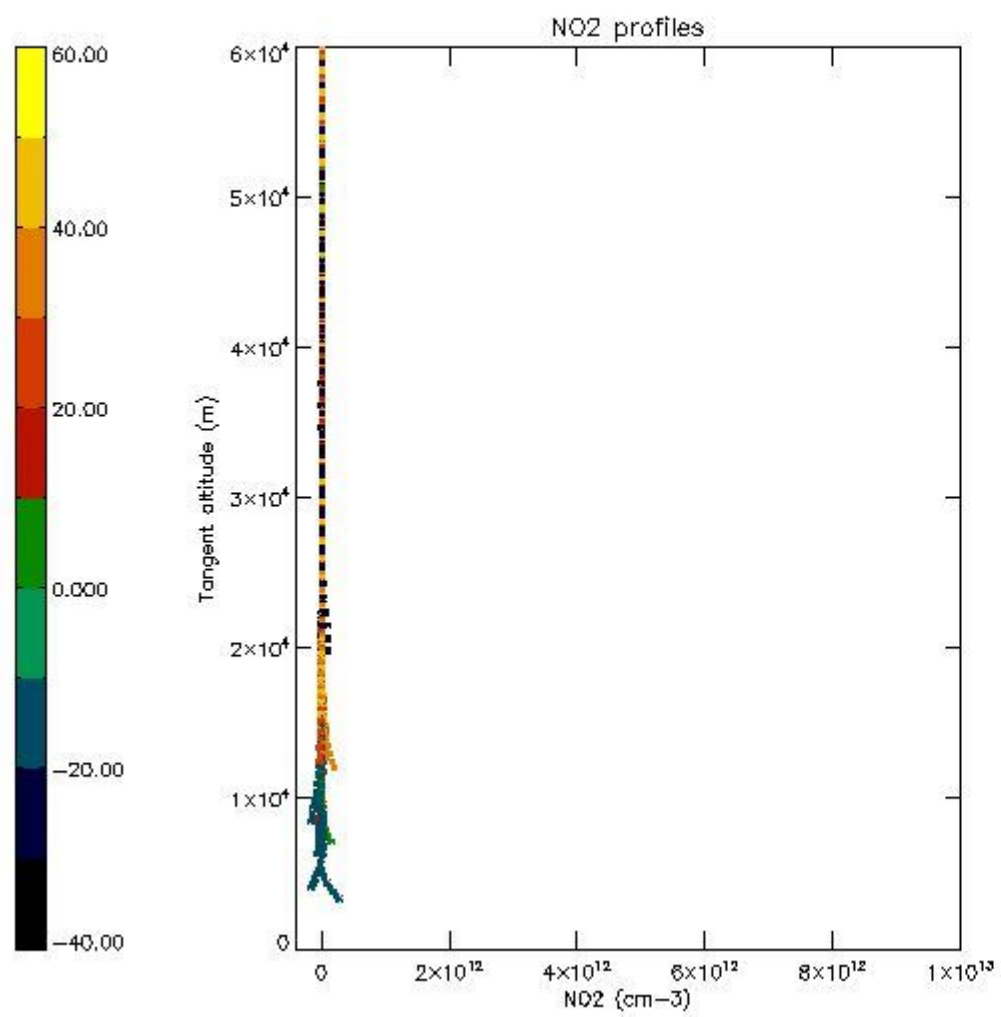
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



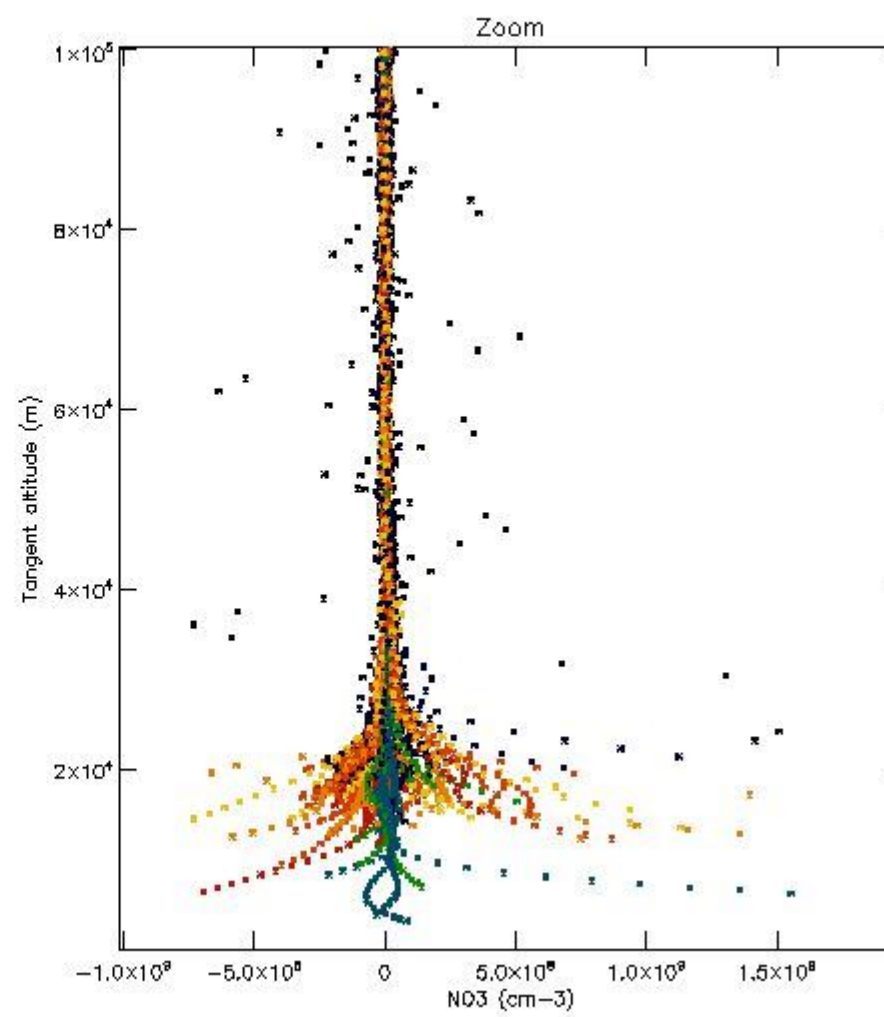
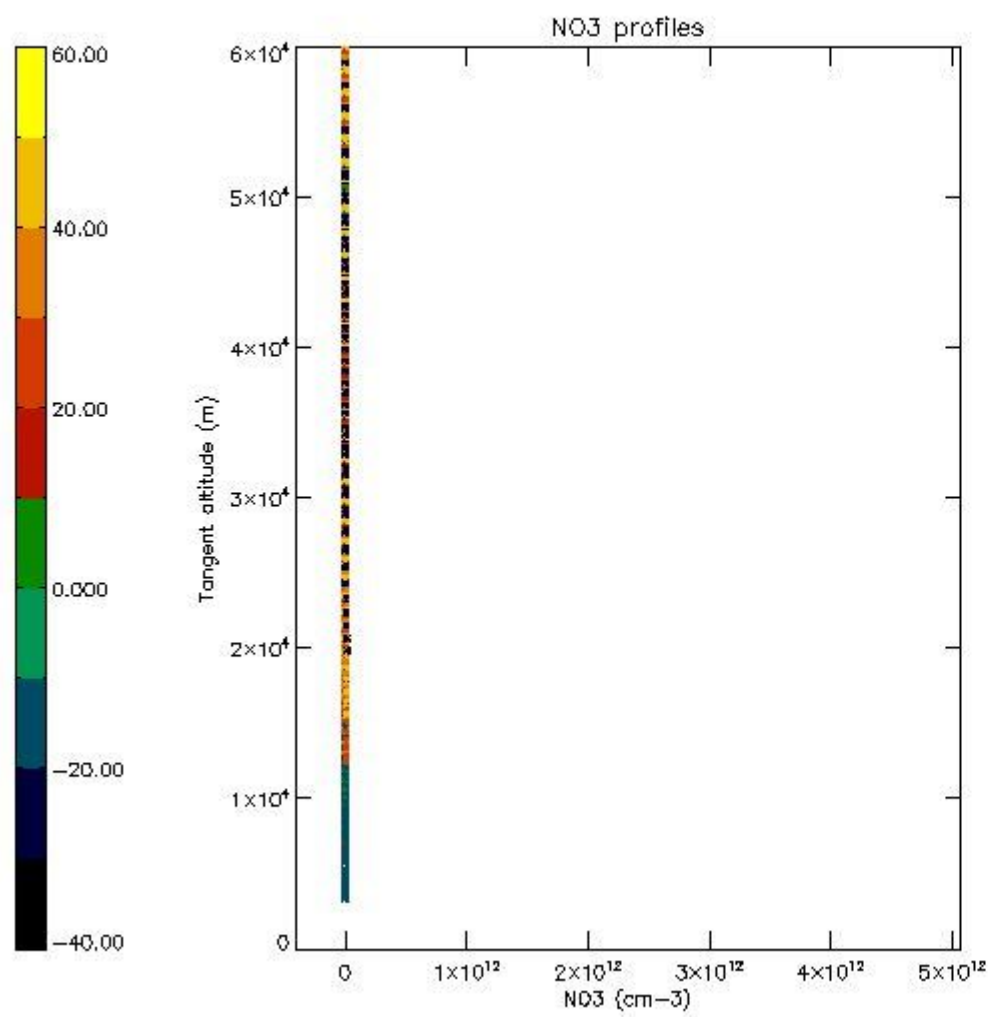
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



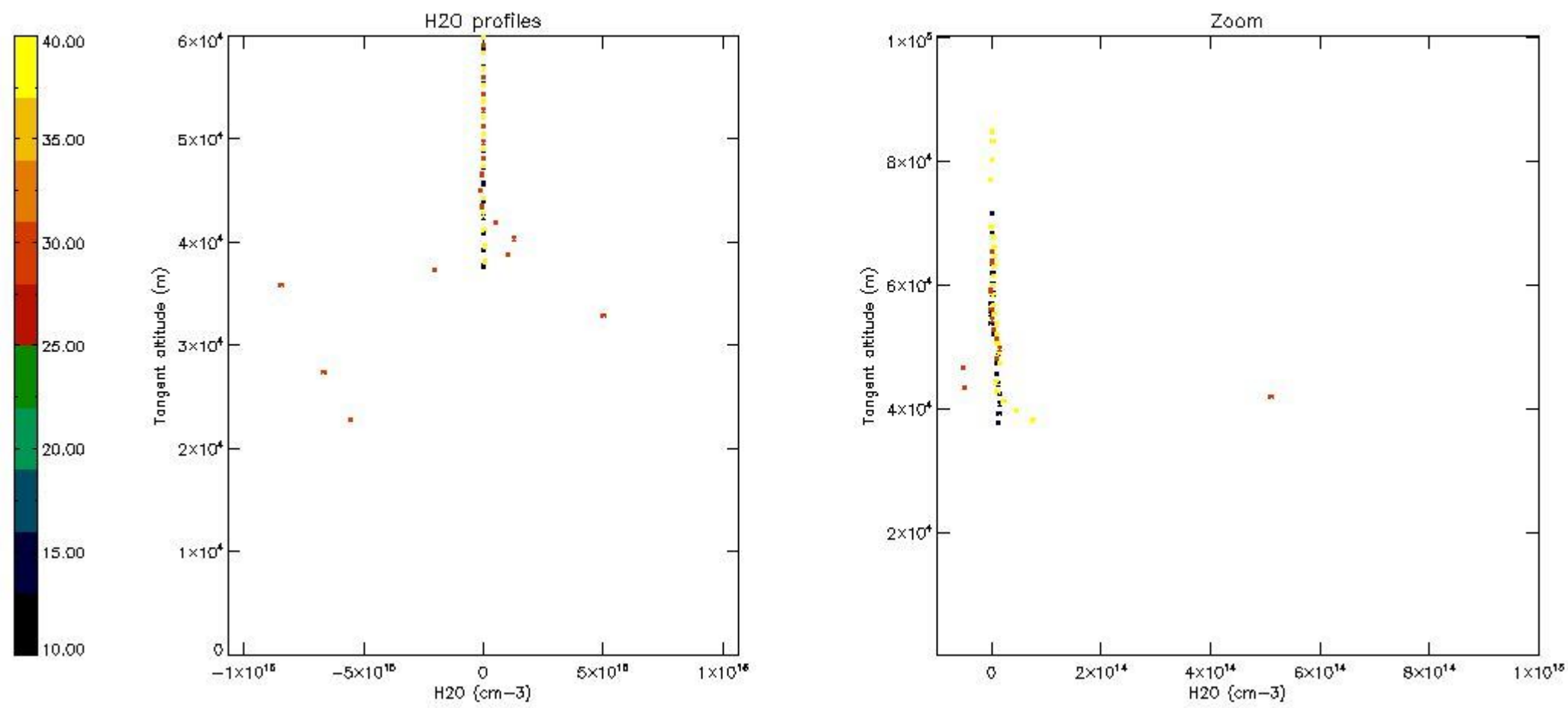
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot H<sub>2</sub>O 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	19-JAN-2009 00:05:32
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-JAN-2009 00:05:32
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-JAN-2009 00:05:32

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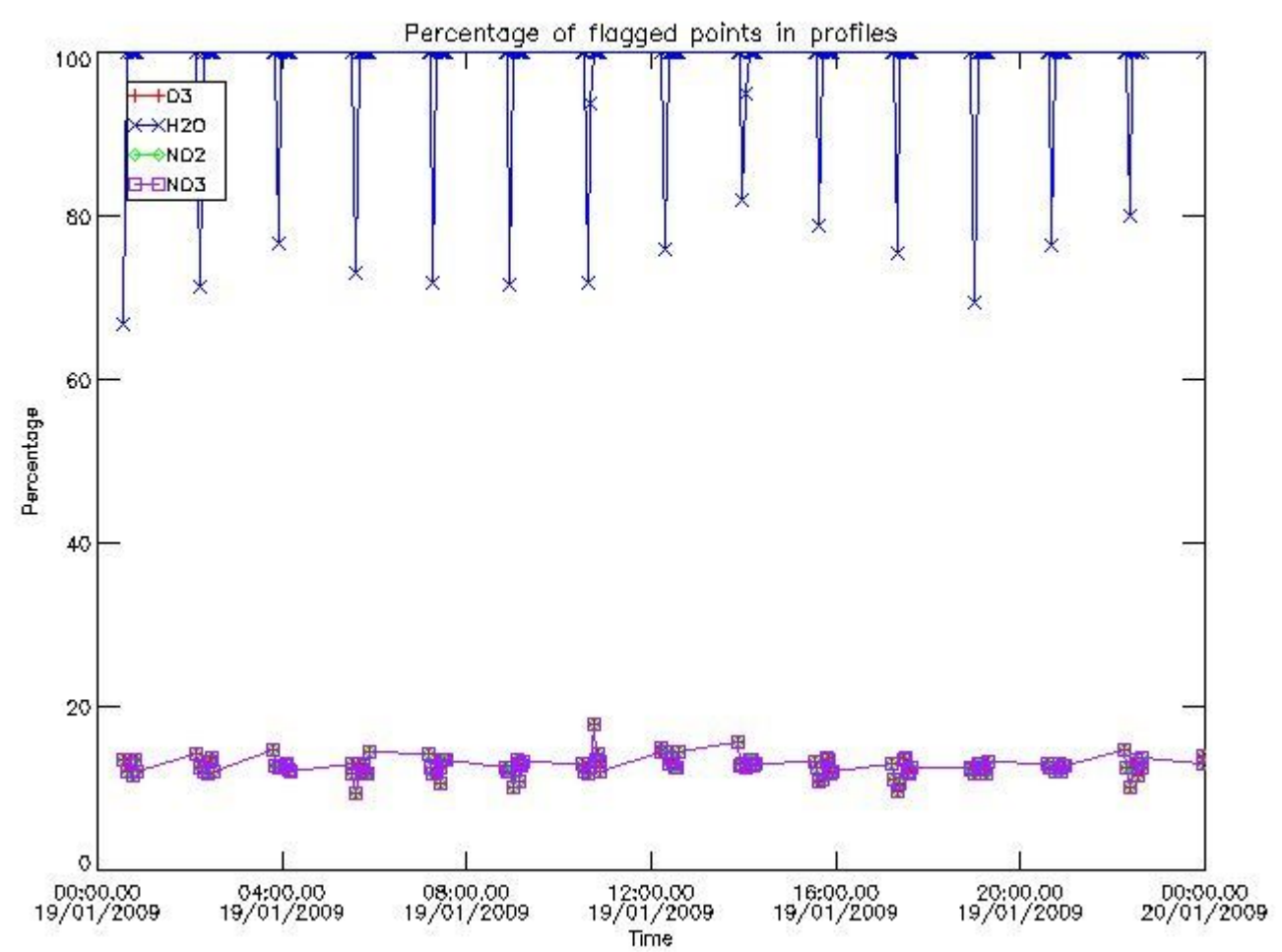


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416	GOM_NL__2PRFIN20090119_233849_000000342075_00402_36027_5426.N1	19-JAN-2009 23:38:49	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	36027	No
417	GOM_NL__2PRFIN20090119_234055_000000342075_00402_36027_5427.N1	19-JAN-2009 23:40:55	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	36027	No
418	GOM_NL__2PRFIN20090119_234504_000000472075_00402_36027_5428.N1	19-JAN-2009 23:45:04	Bright	47.000	120	1Del Oph	2.7340	3200.0	94	36027	No
419	GOM_NL__2PRFIN20090119_234700_000000392075_00402_36027_5429.N1	19-JAN-2009 23:47:00	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	36027	No
420	GOM_NL__2PRFIN20090119_235050_000000472075_00402_36027_5430.N1	19-JAN-2009 23:50:50	Twilight	47.000	16	21Alp Sco	1.0200	3000.0	94	36027	No
421	GOM_NL__2PRFIN20090119_235223_000000432075_00402_36027_5431.N1	19-JAN-2009 23:52:23	Twilight	42.500	75	26Eps Sco	2.2910	4250.0	85	36027	No
422	GOM_NL__2PRFIN20090119_235615_000000402075_00402_36027_5432.N1	19-JAN-2009 23:56:15	Dark	39.500	131	Gam Lup	2.8000	26000.	79	36027	No
423	GOM_NL__2PRFIN20090119_235808_000000402075_00402_36027_5433.N1	19-JAN-2009 23:58:08	Dark	40.000	109	Bet Lup	2.6770	26000.	80	36027	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.

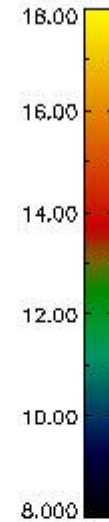
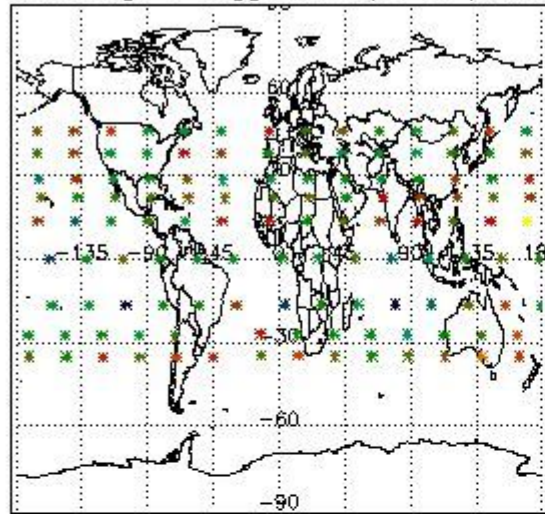
#### 3.1 Plot quality information per product (time dependant)



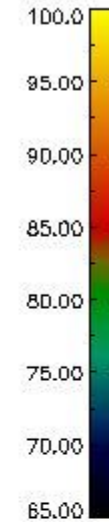
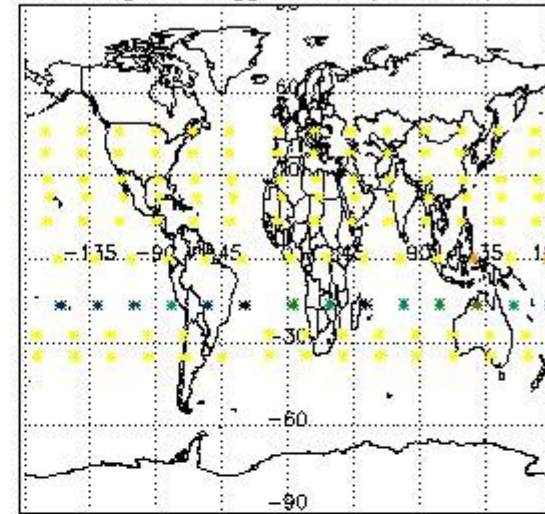
3.2 Plot quality information per product (world map)



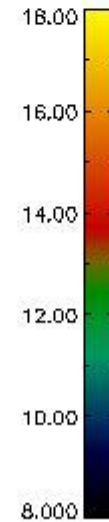
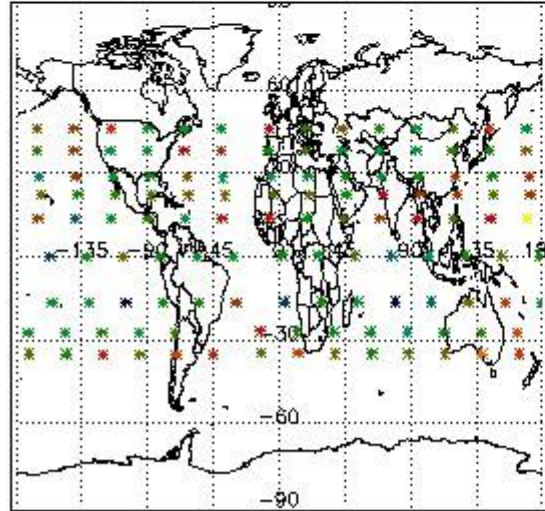
Percentage of flagged data per O3 profile



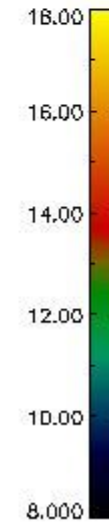
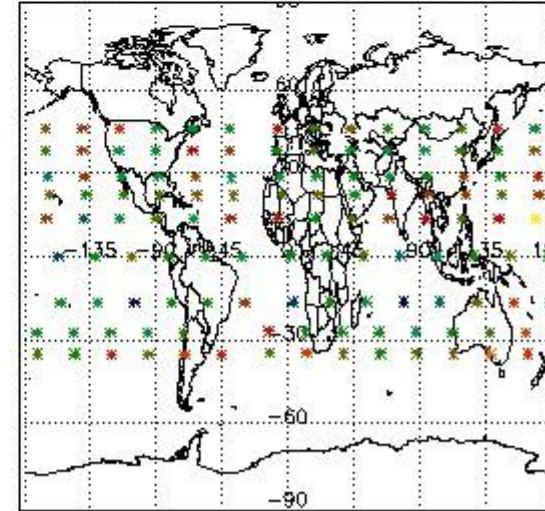
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

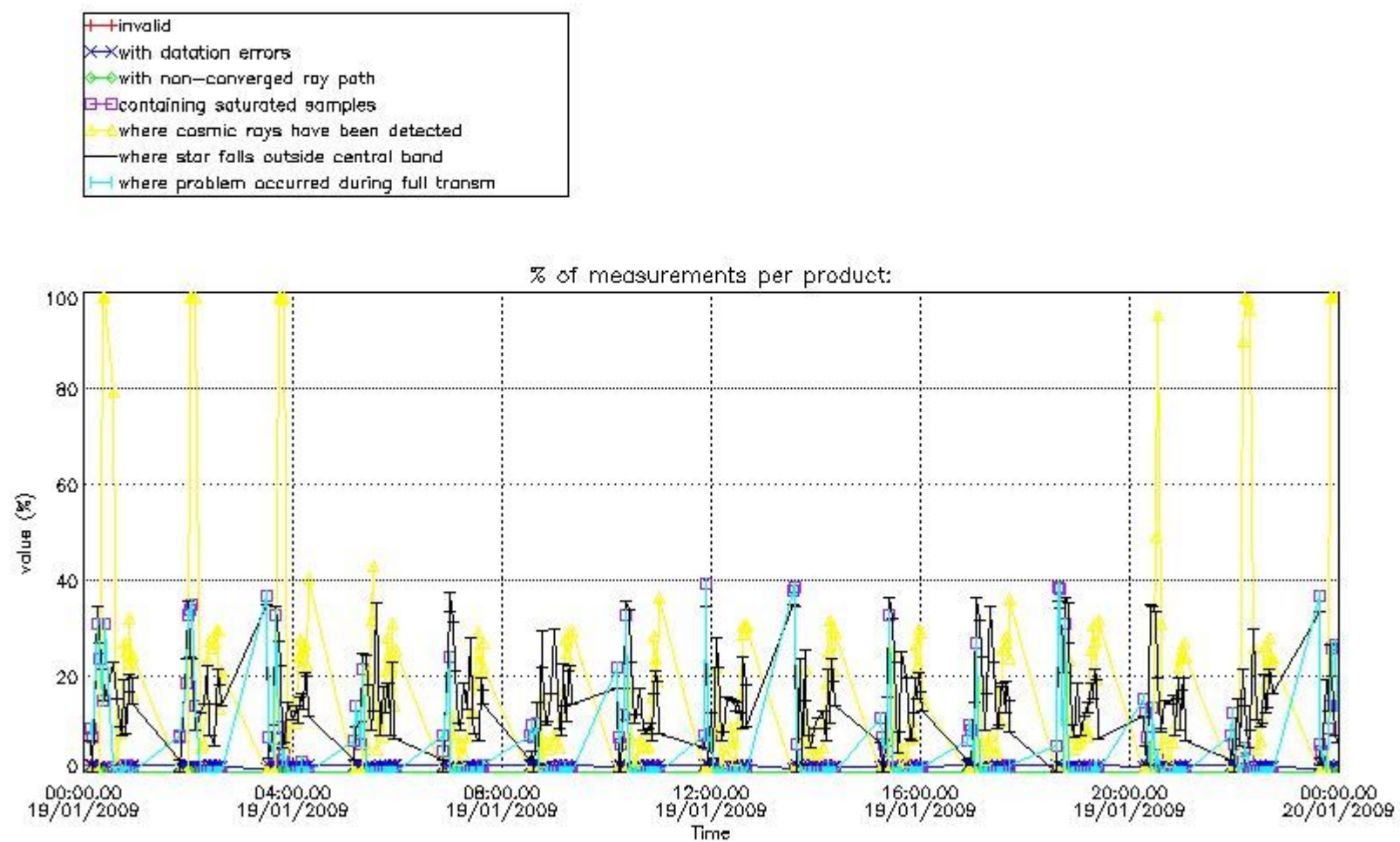


#### 4. Level 1 quality information per product

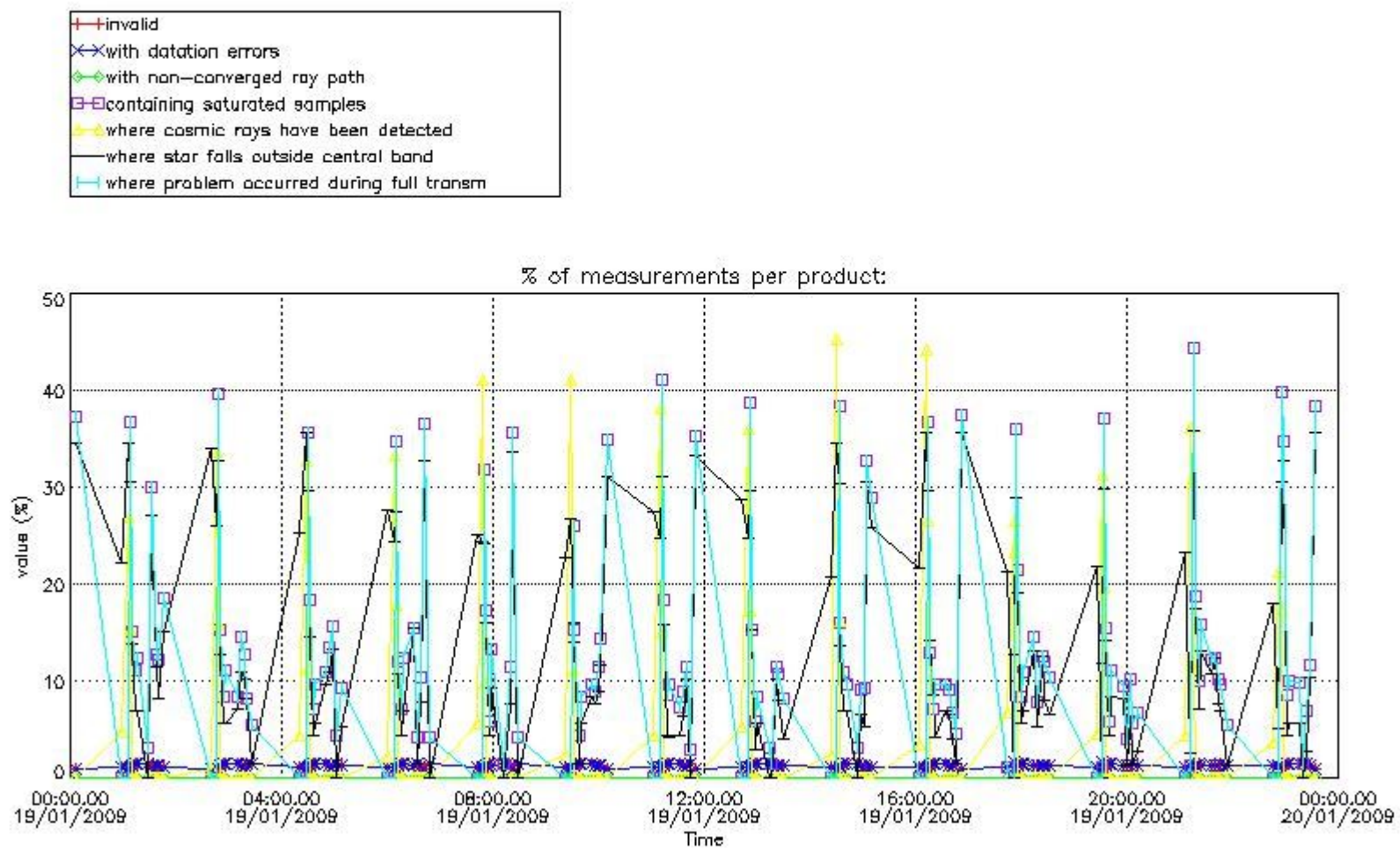
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

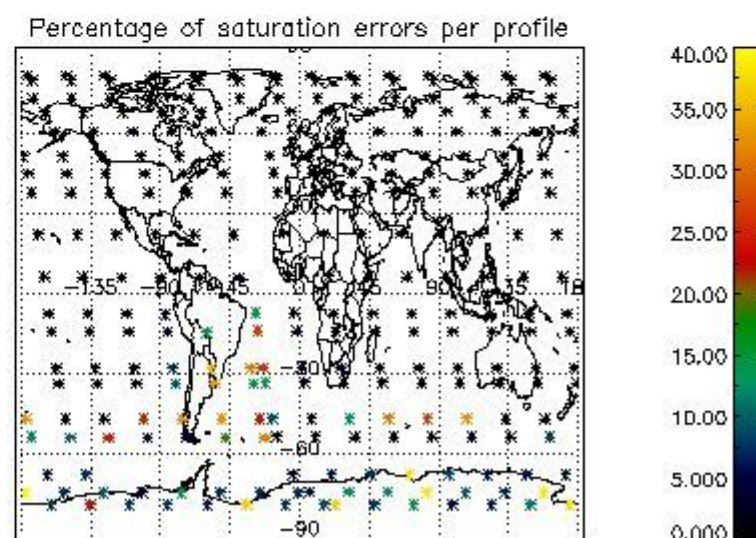
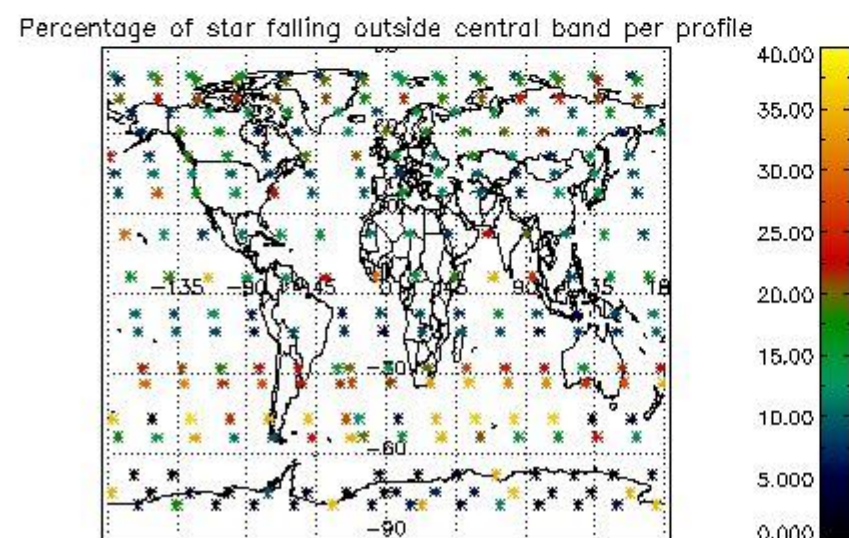
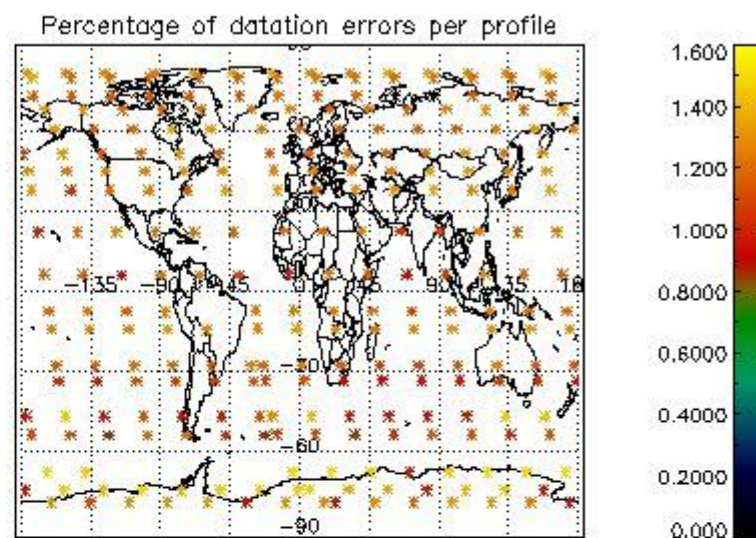
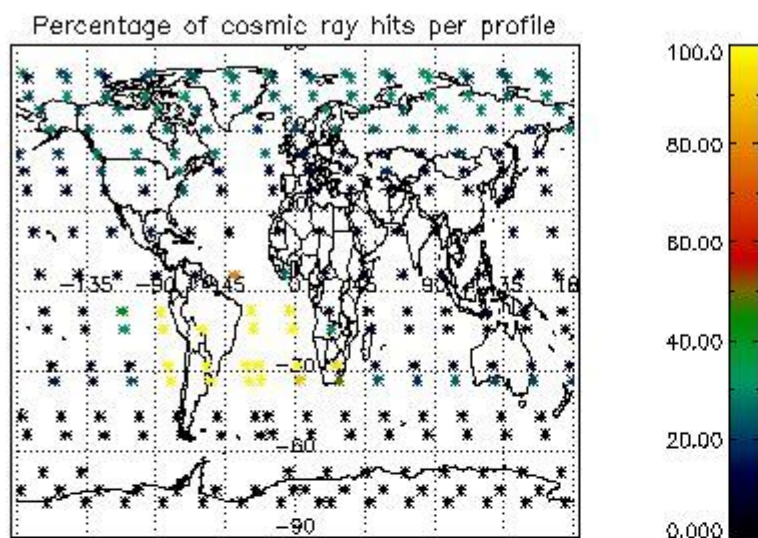


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

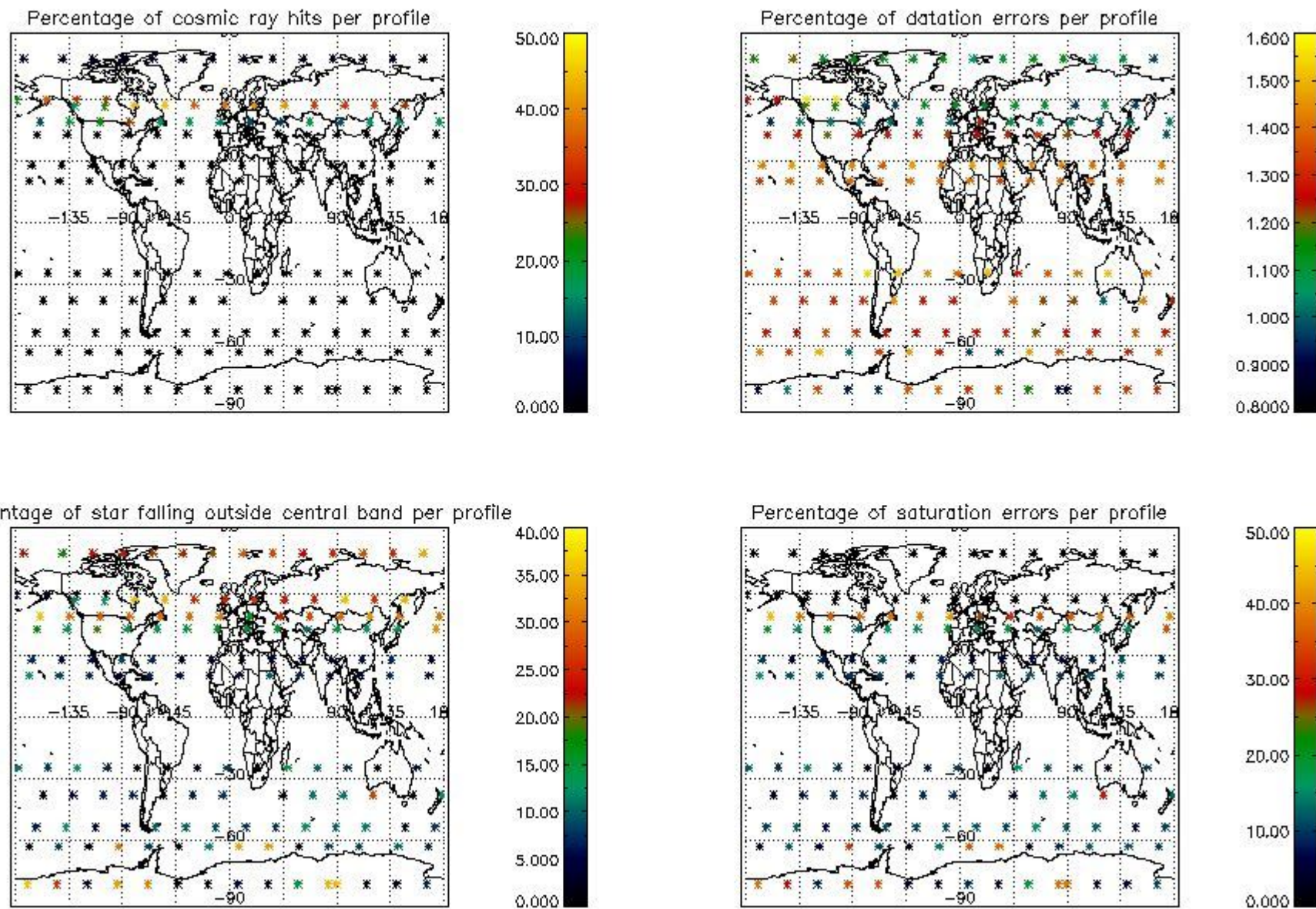


4.2 Plot quality information per product coming from level 1b processing (world map)

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

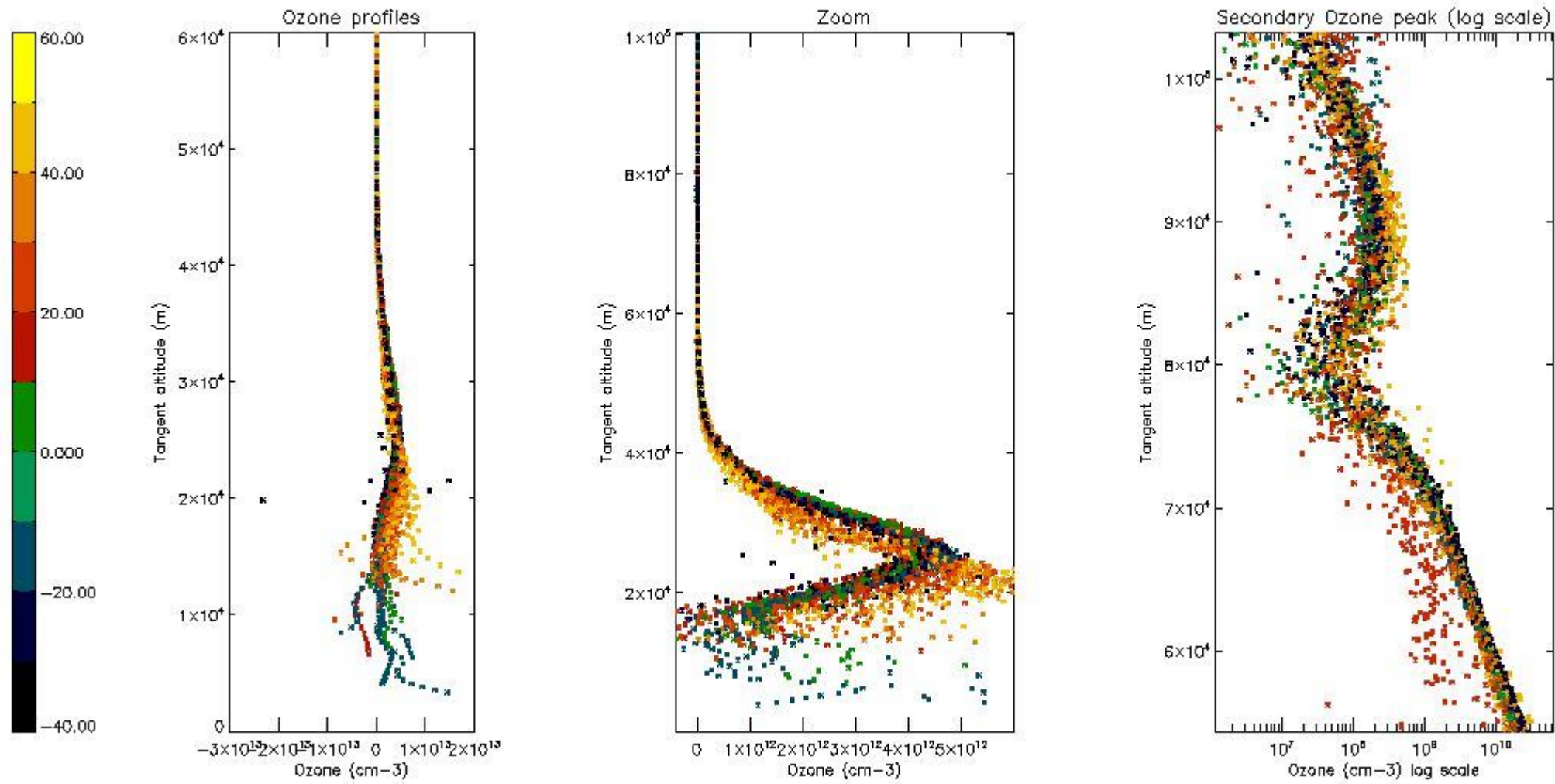
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	30
STD < 20	18

STD < 10	16
STD < 5	11

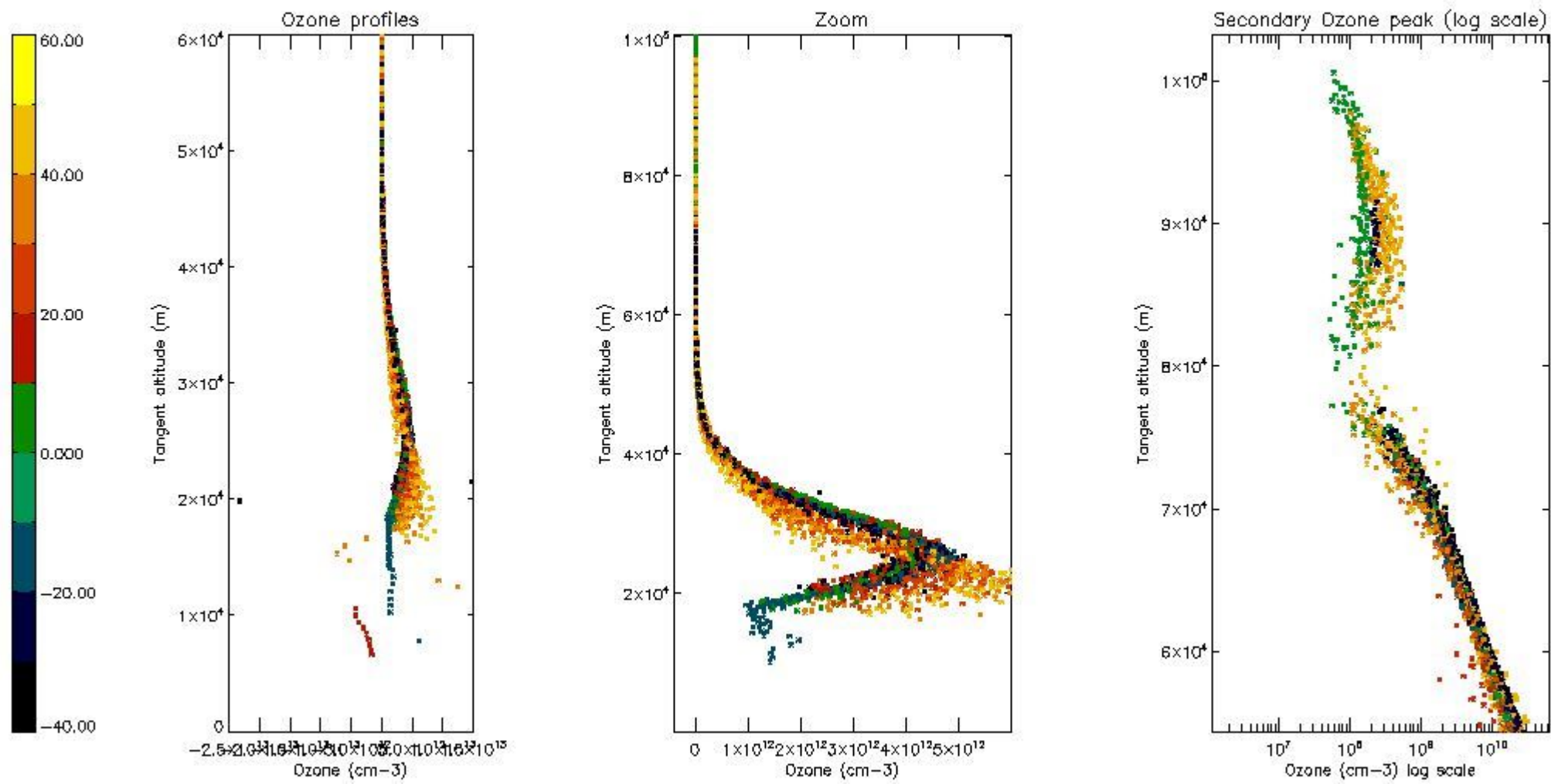
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



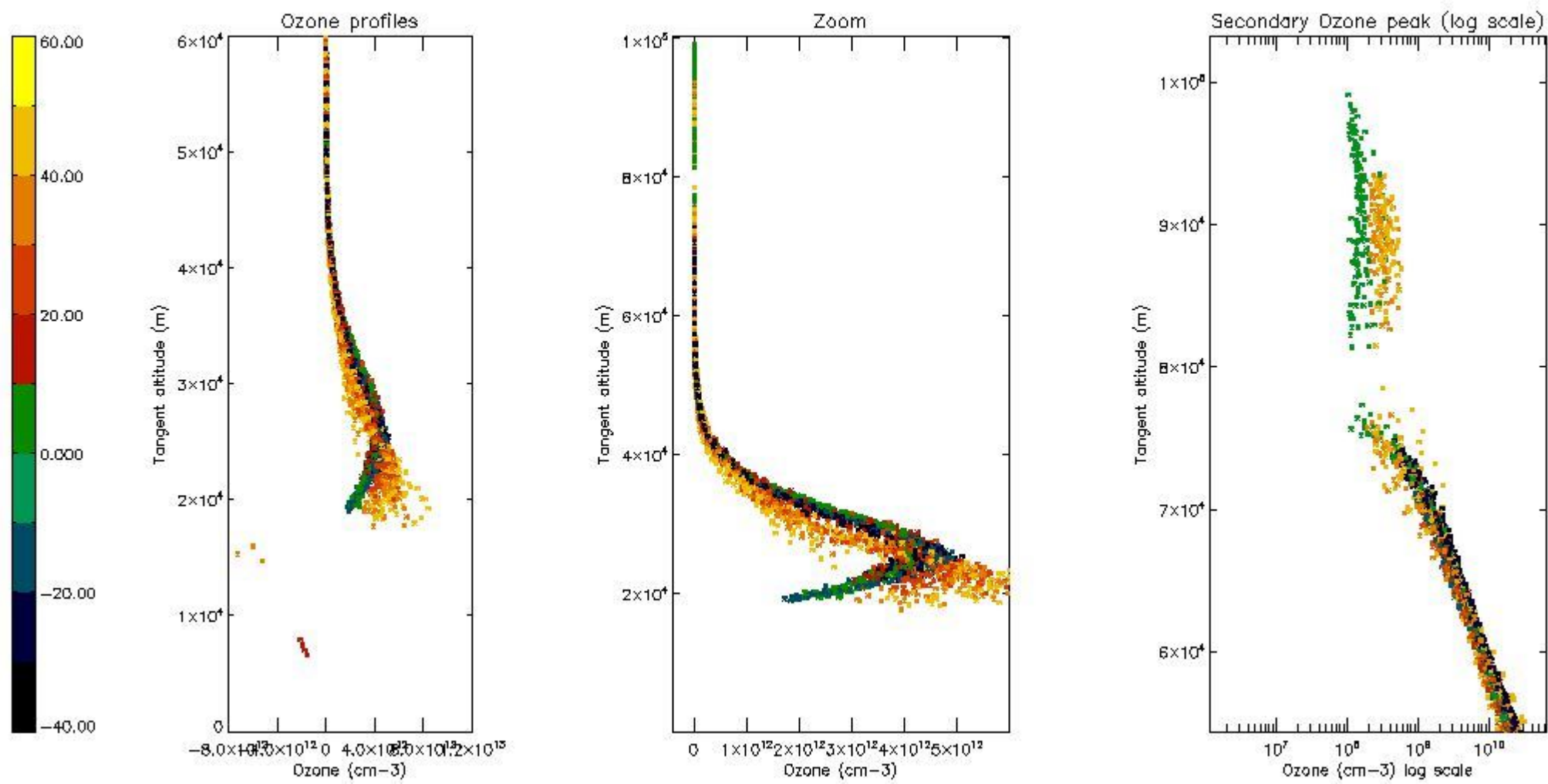
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

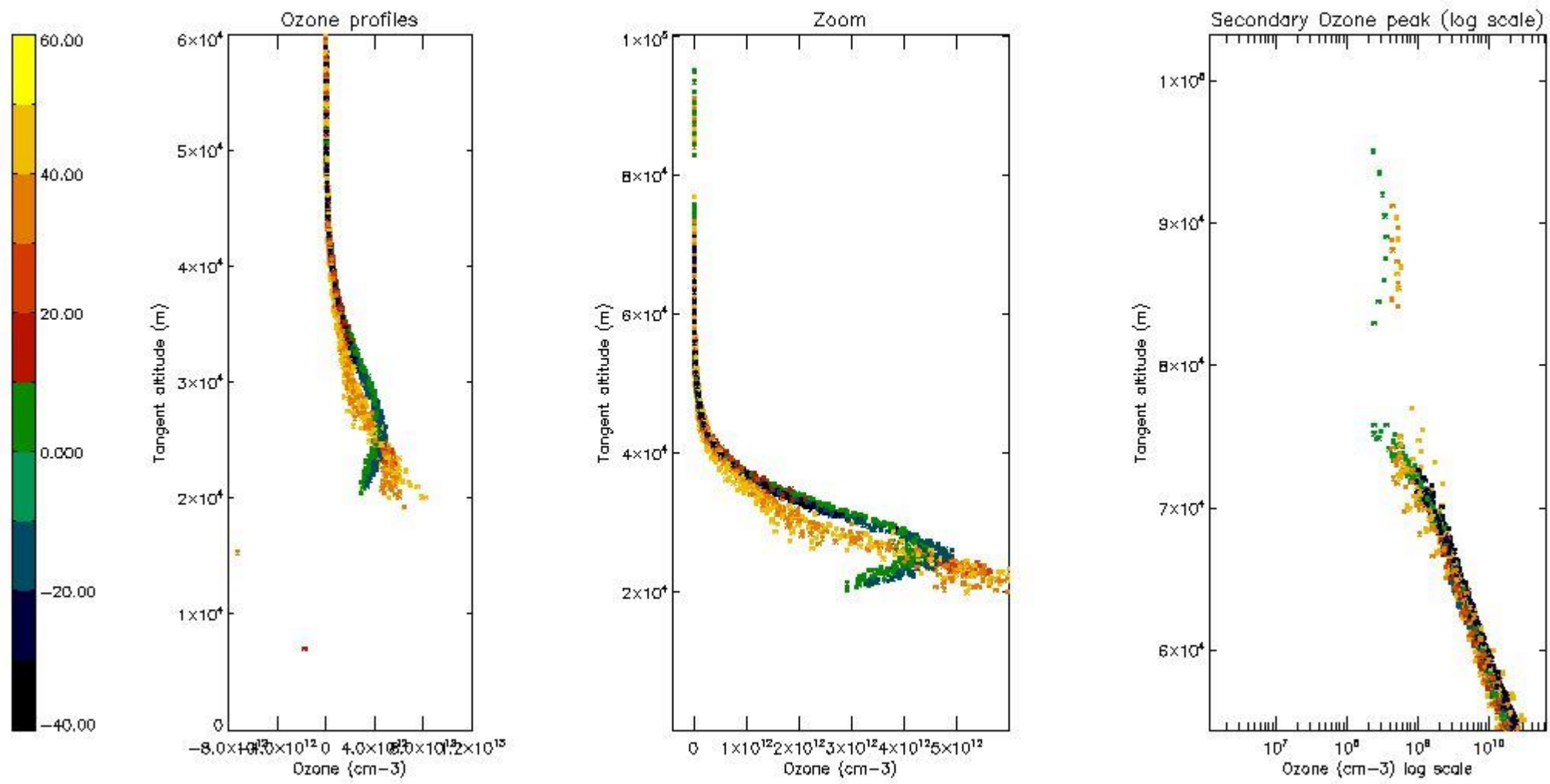
The colorbar represents the latitude.



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

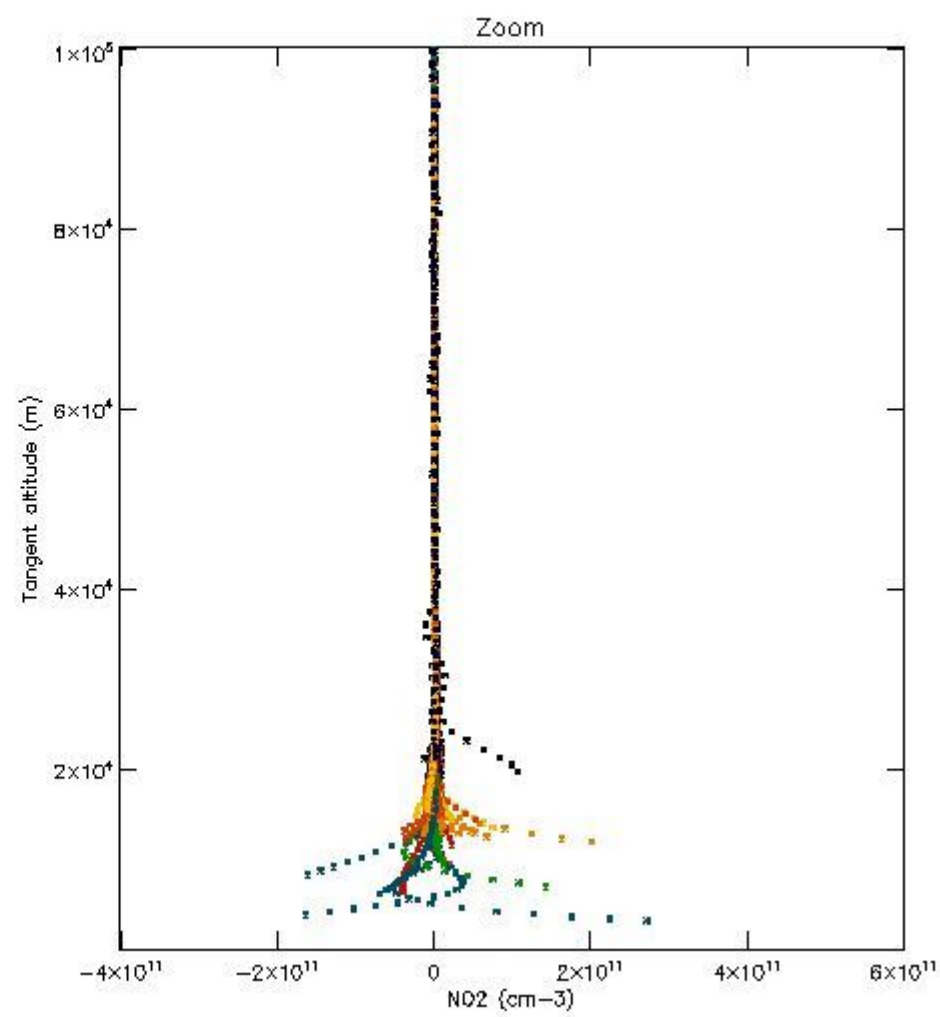
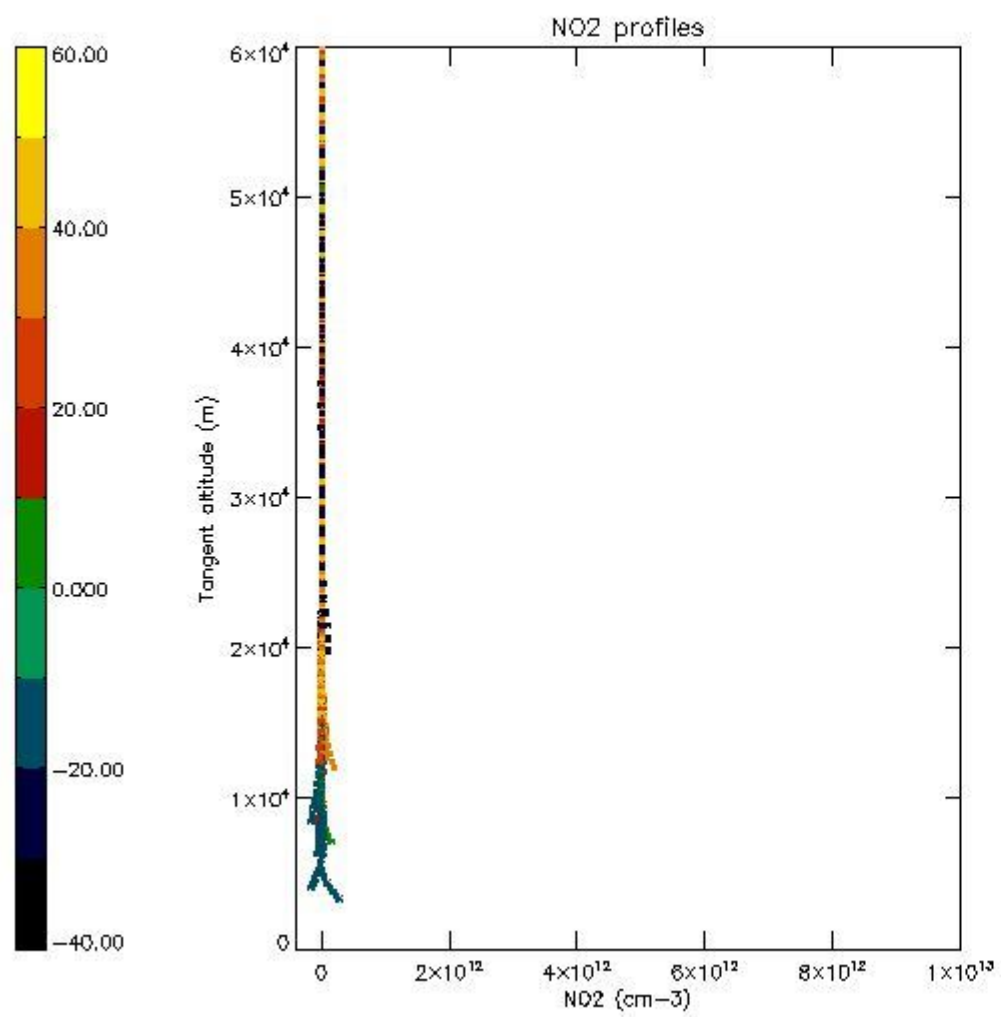
The colorbar represents the latitude.





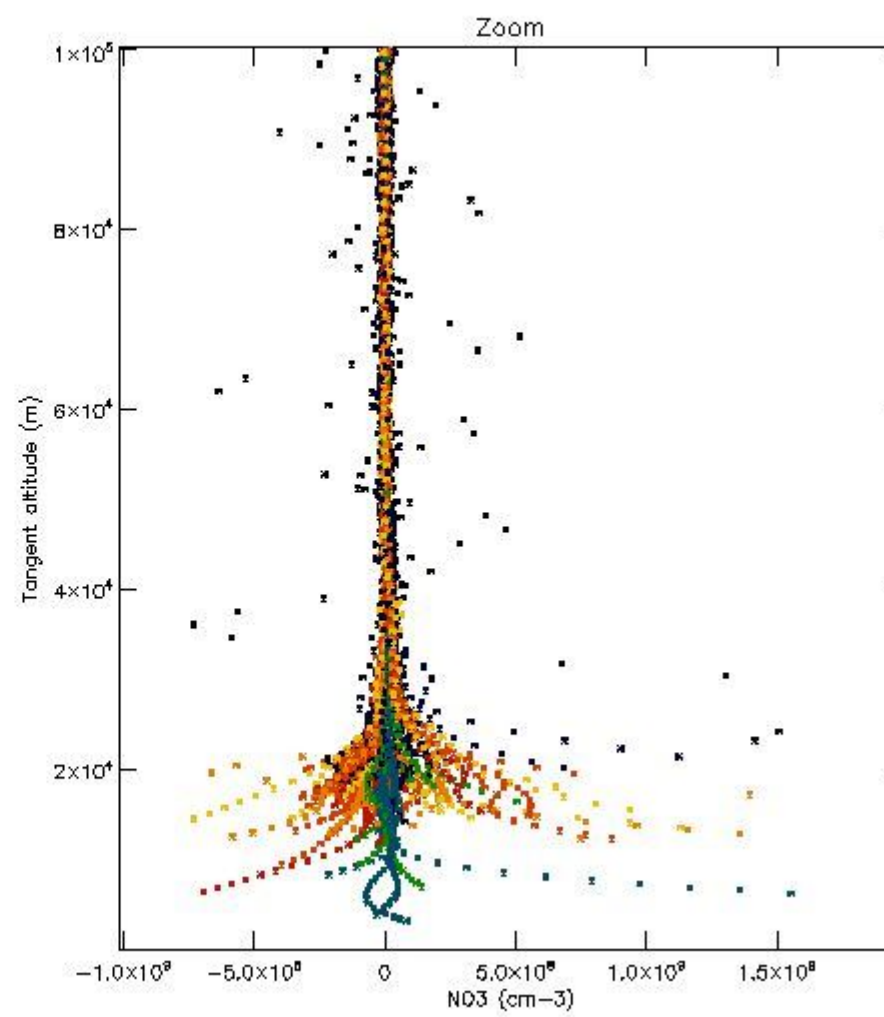
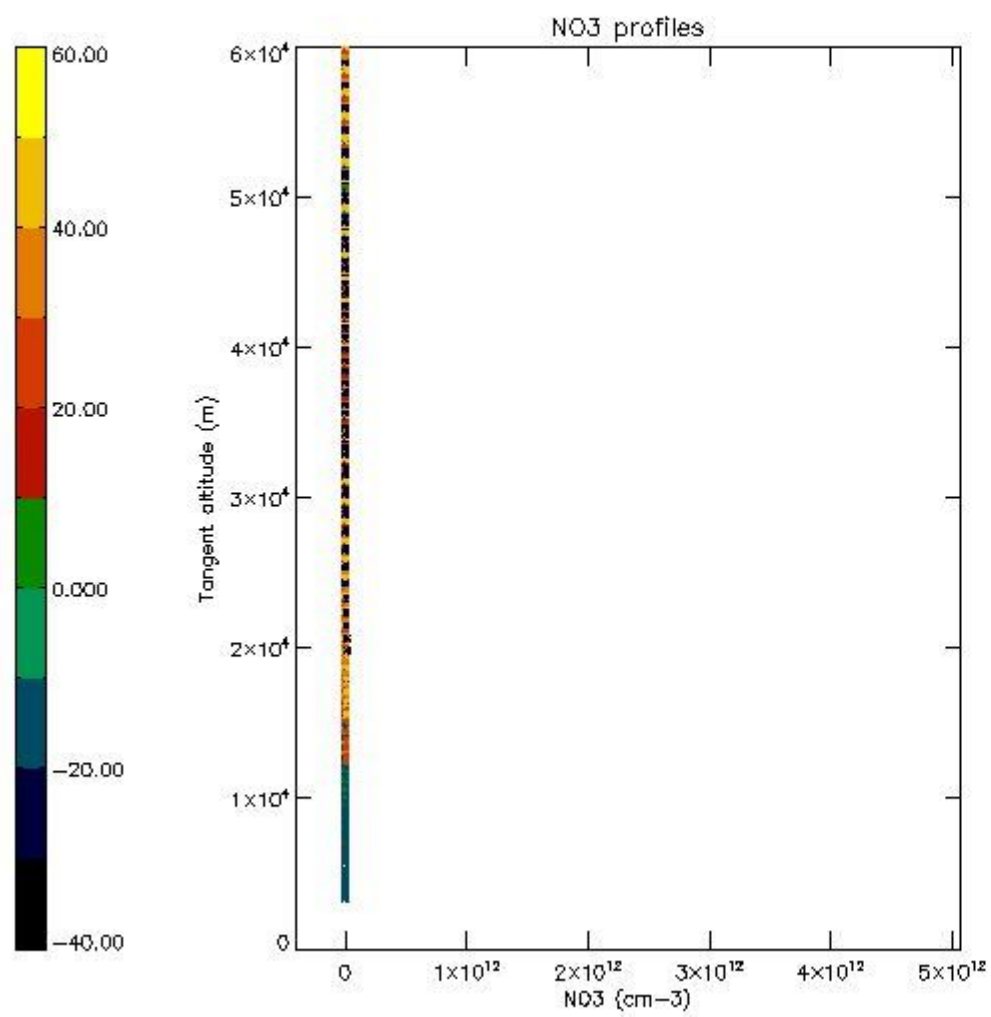
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



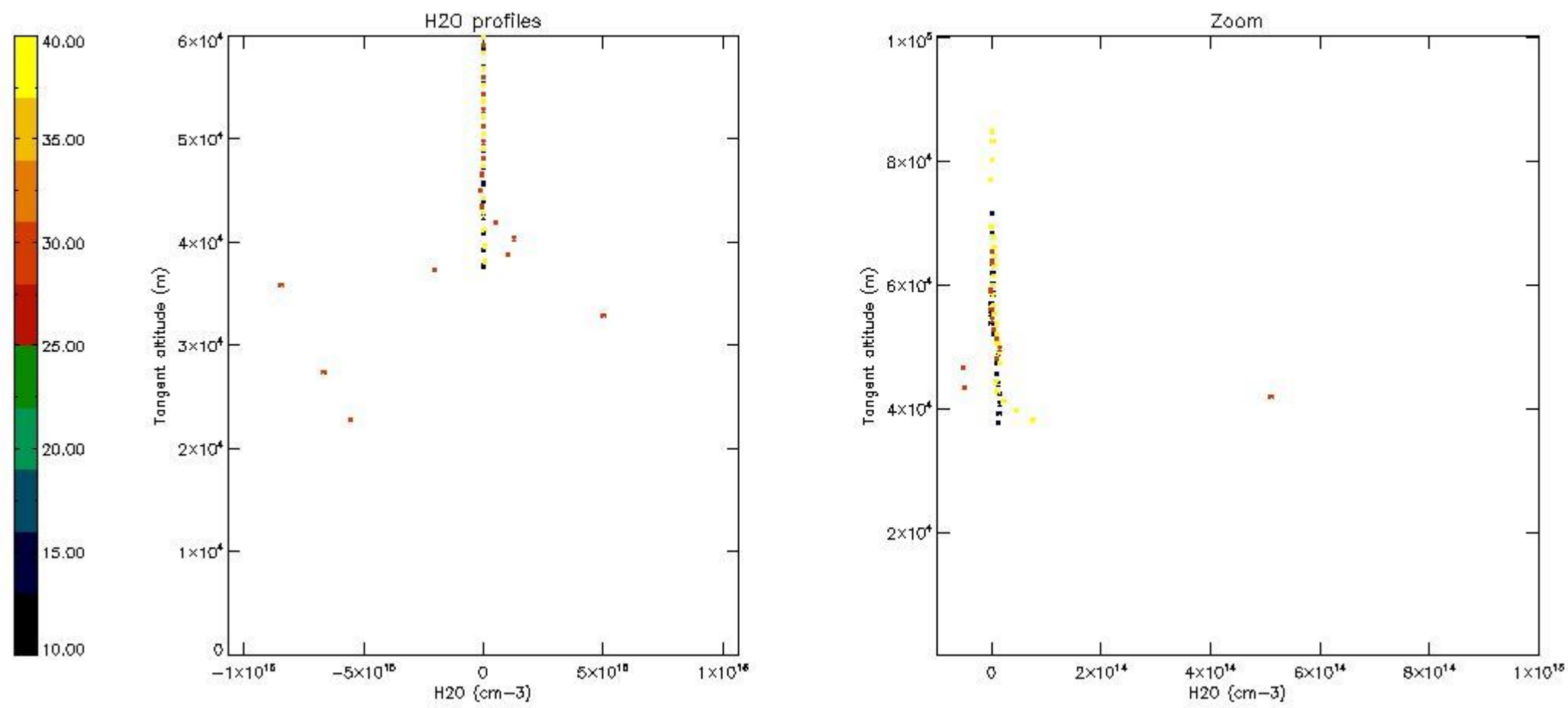
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot H<sub>2</sub>O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)

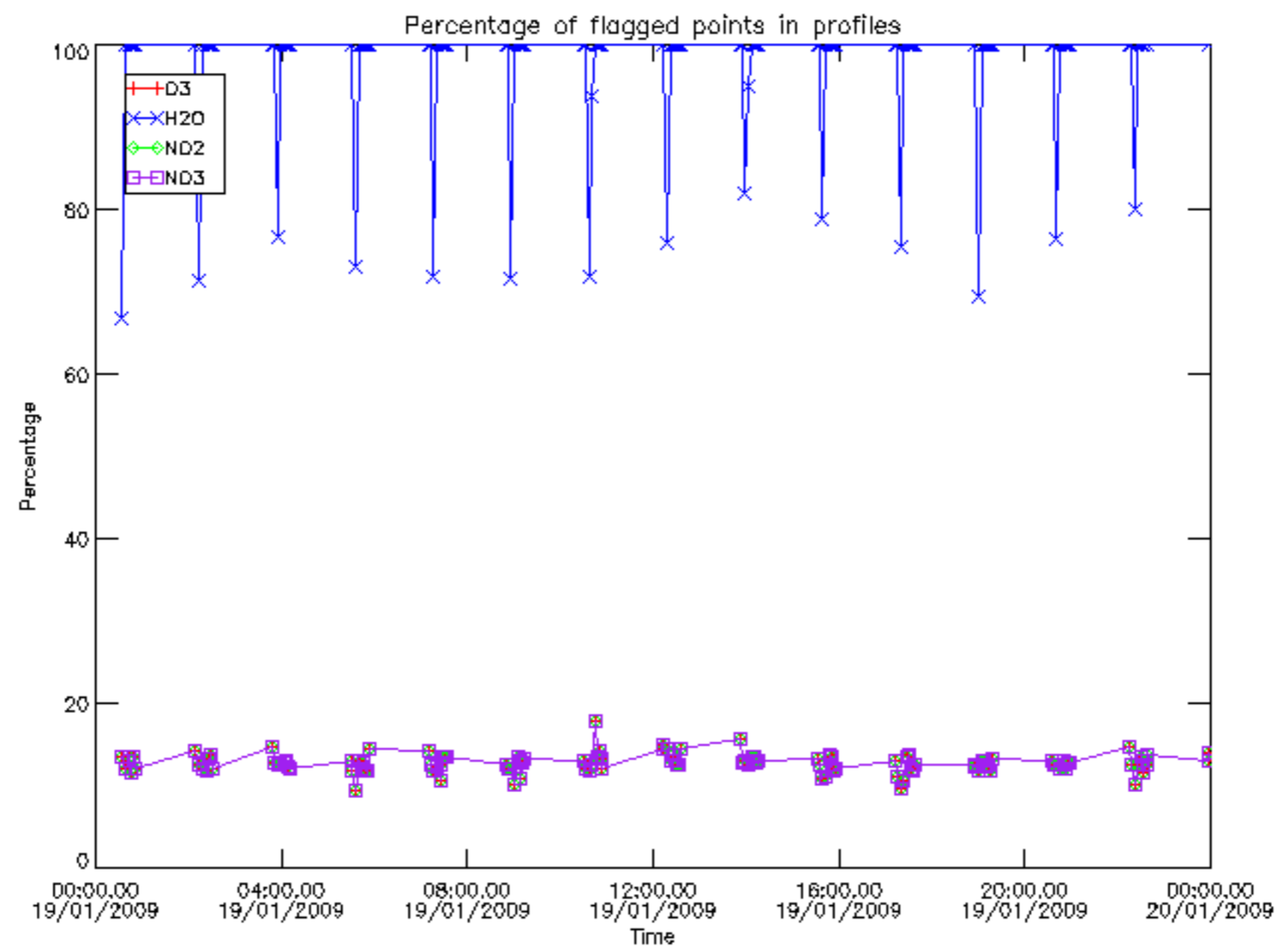
The colorbar represents the latitude.



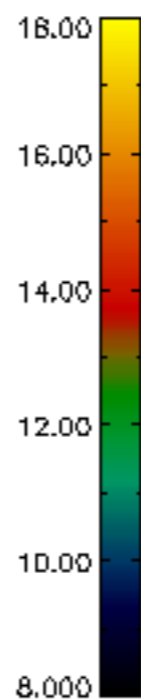
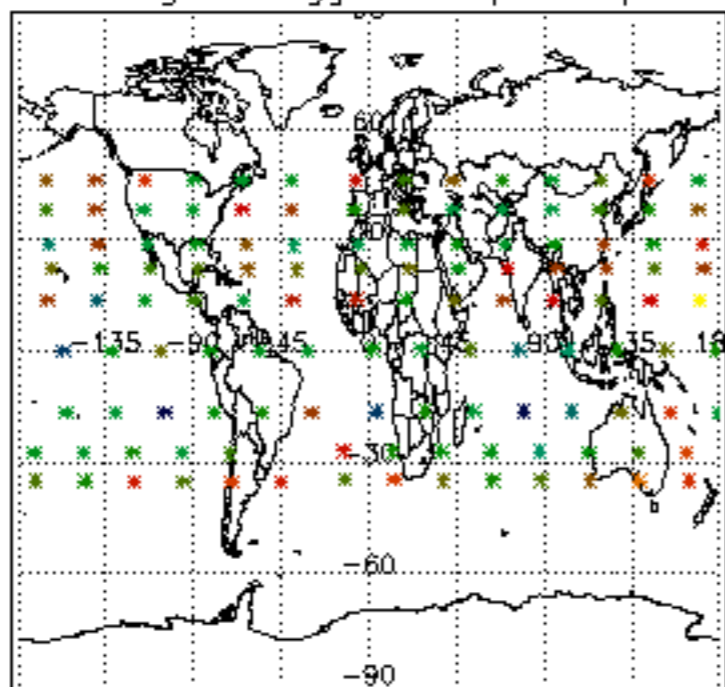
## 6. Auxiliary Data Files used for the production reported in section 2

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.

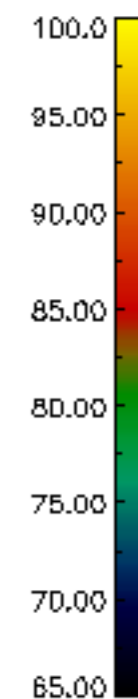
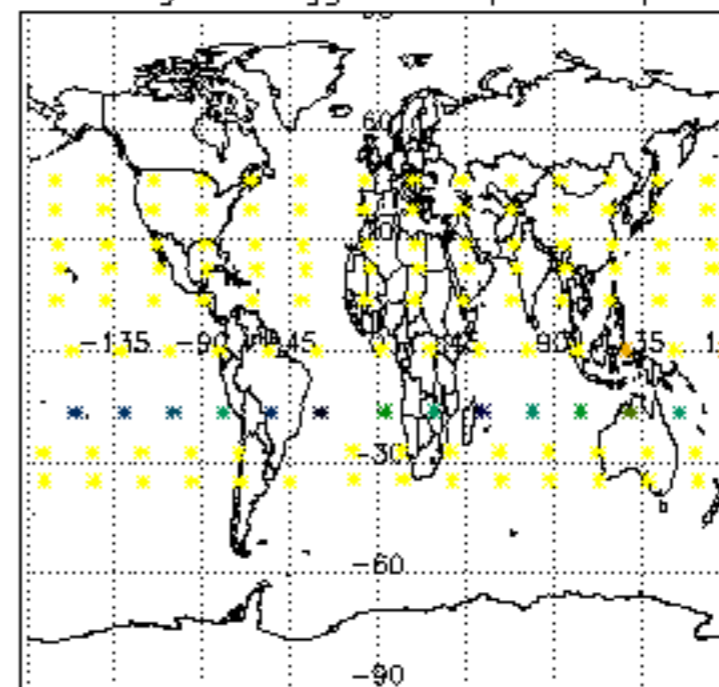
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	19-JAN-2009 00:05:32
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-JAN-2009 00:05:32
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-JAN-2009 00:05:32



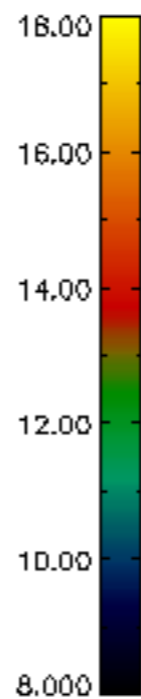
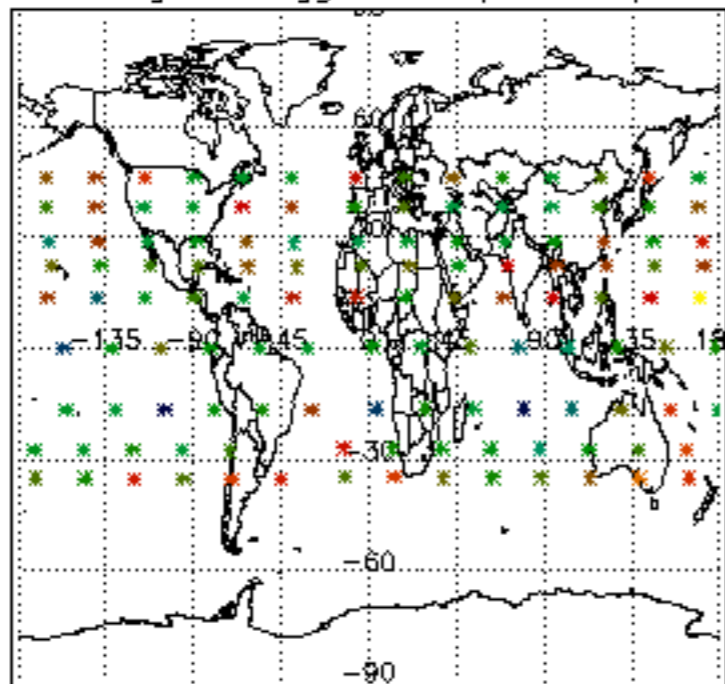
Percentage of flagged data per D3 profile



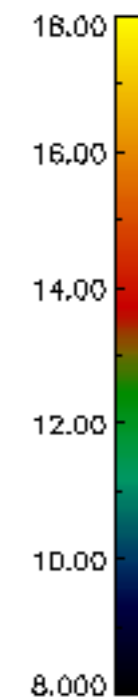
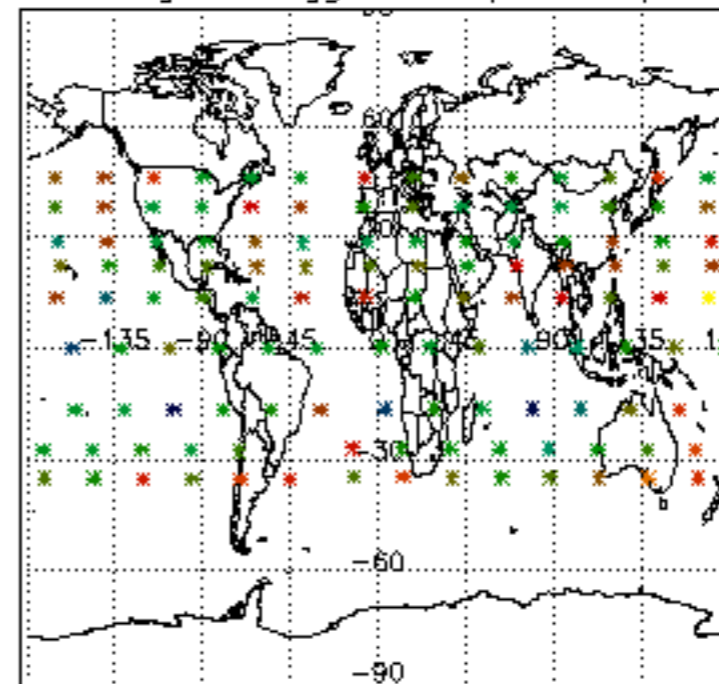
Percentage of flagged data per H2O profile

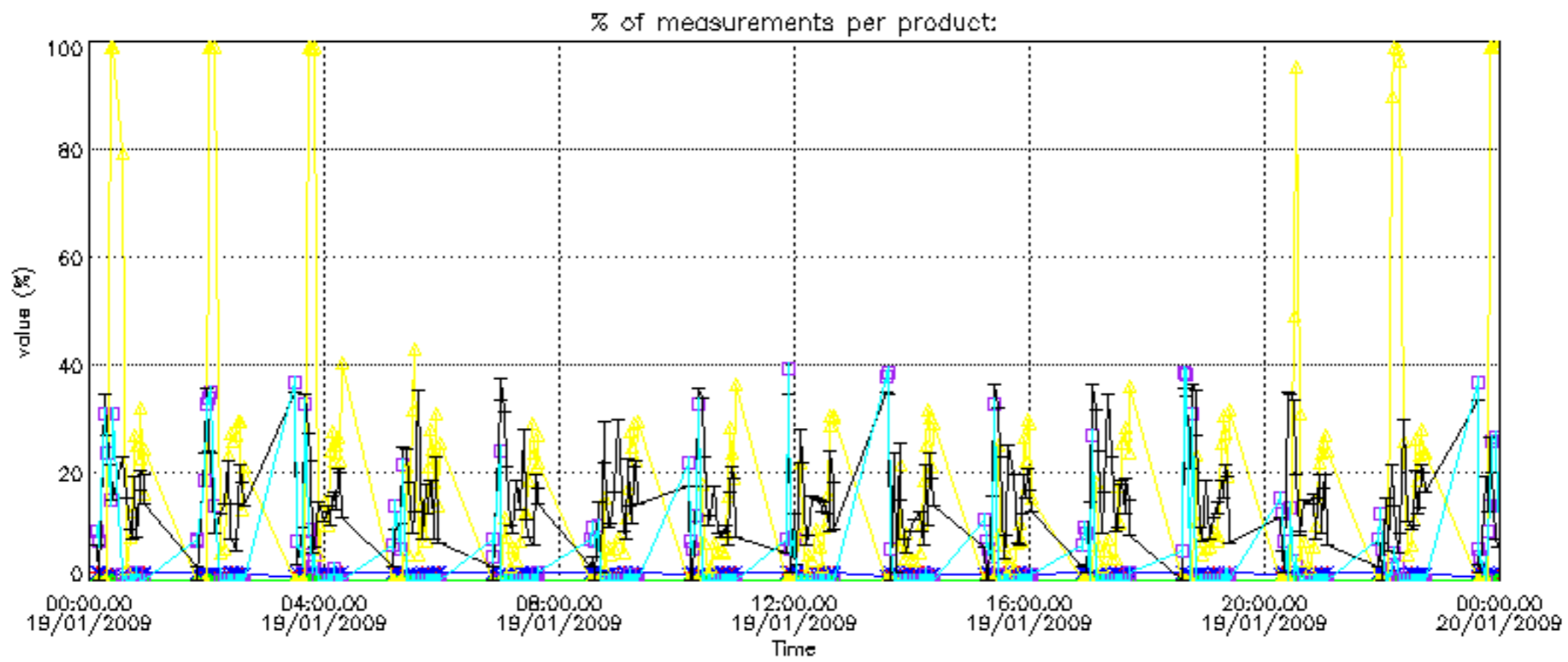
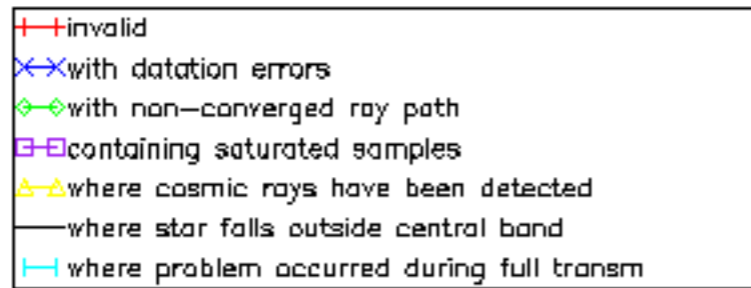


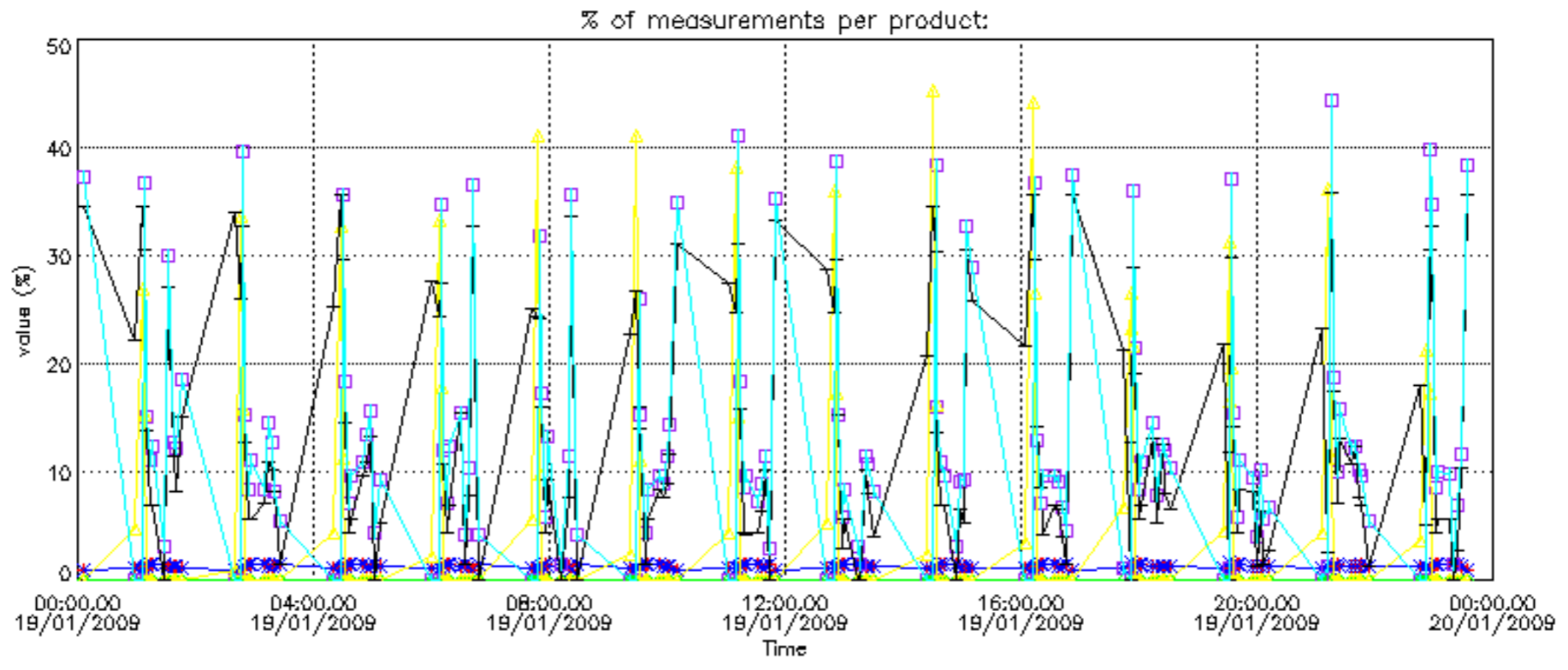
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

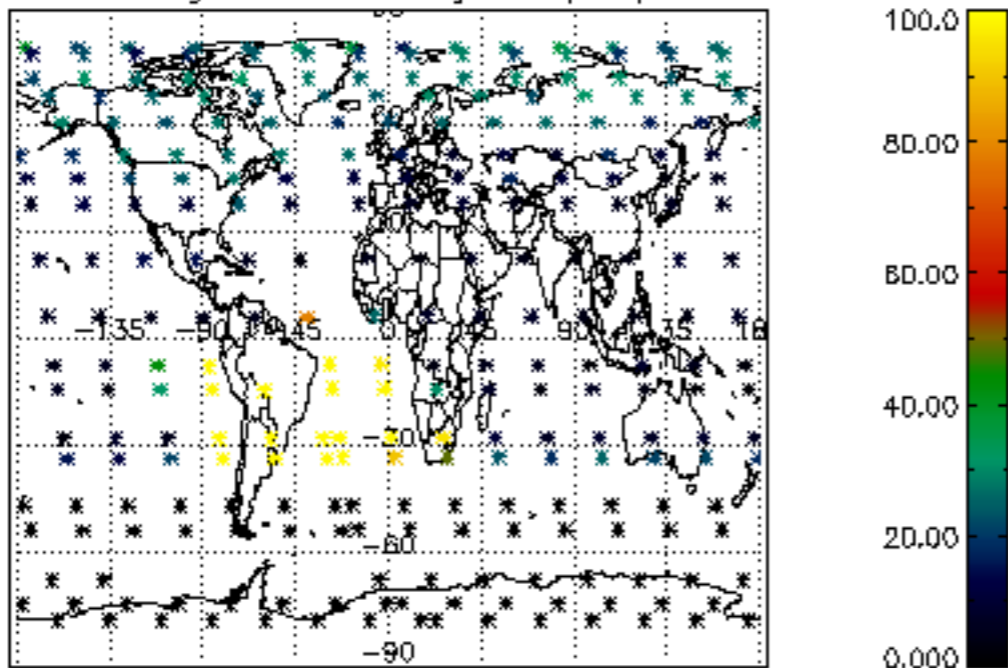




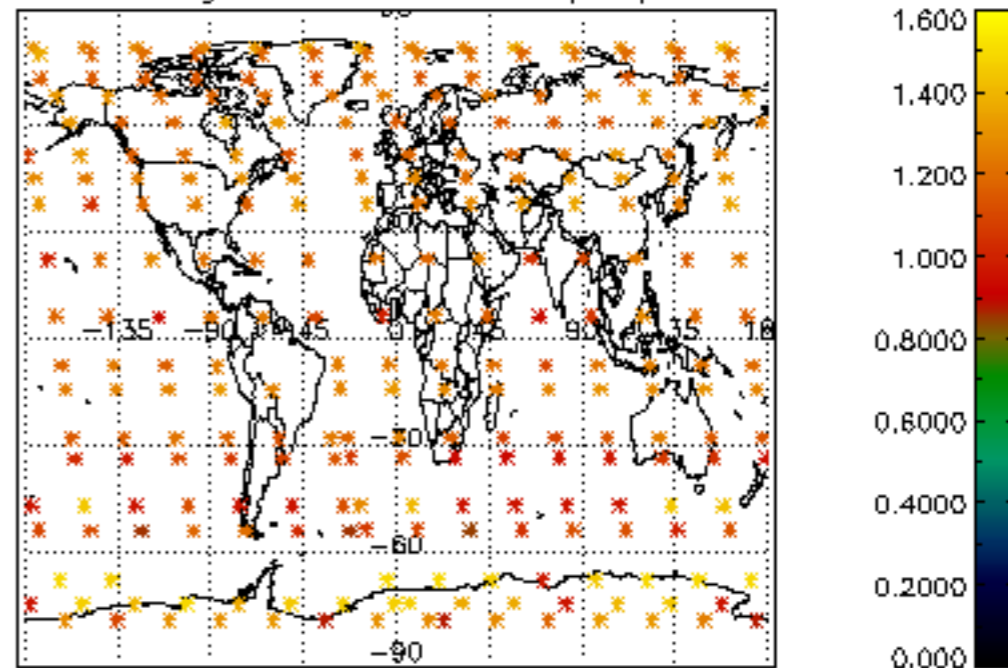




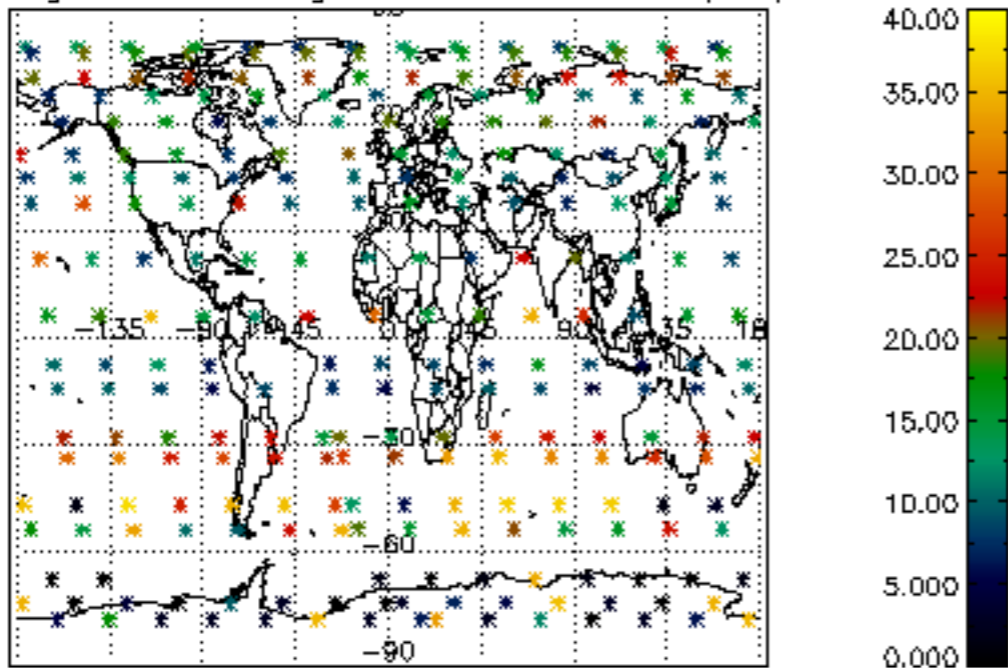
Percentage of cosmic ray hits per profile



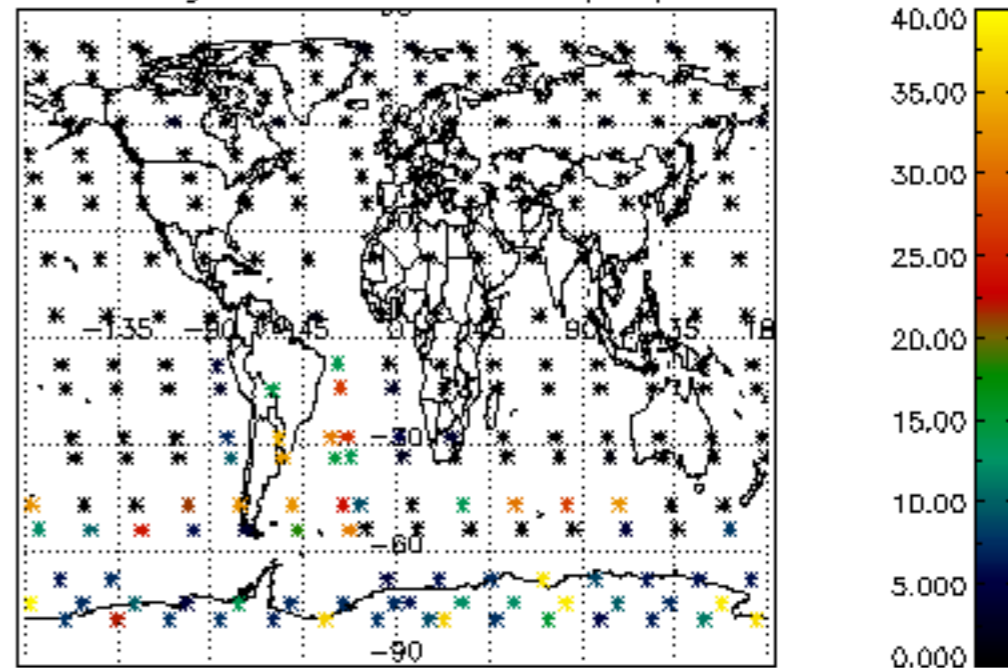
Percentage of datation errors per profile



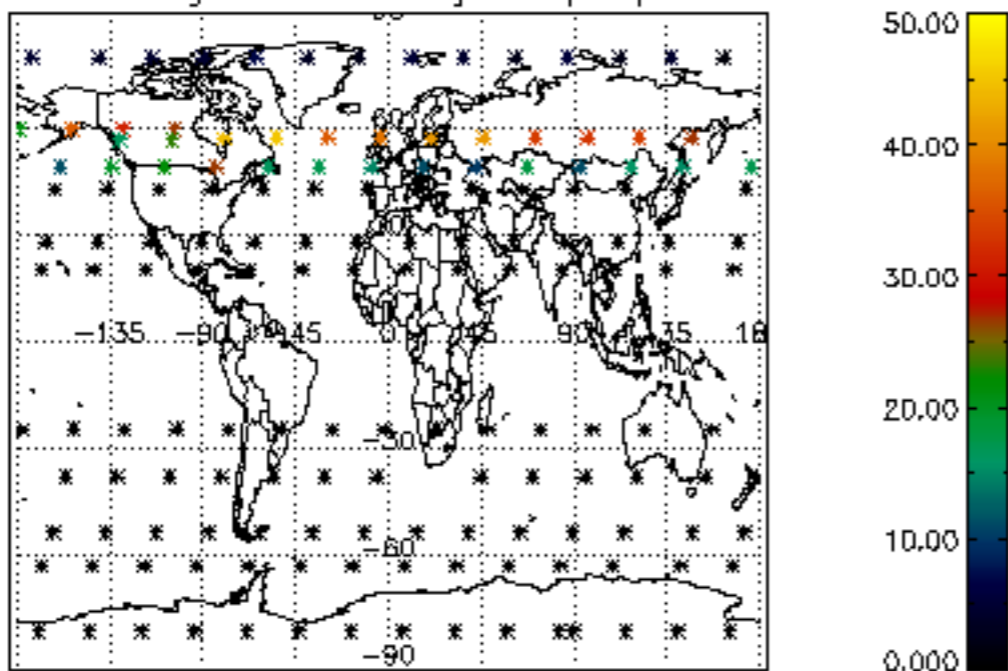
Percentage of star falling outside central band per profile



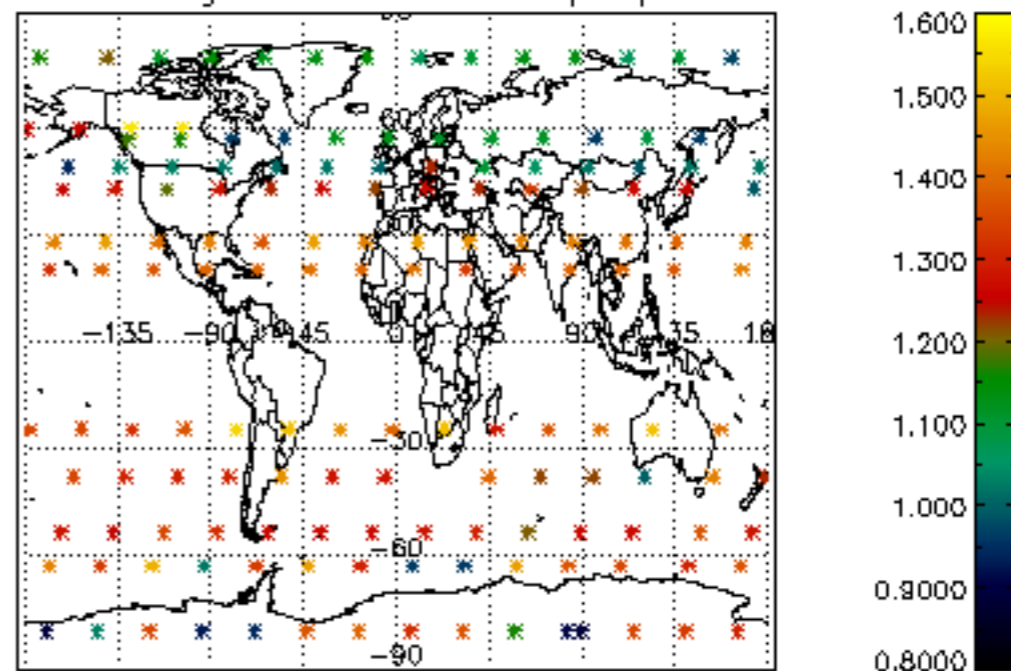
Percentage of saturation errors per profile



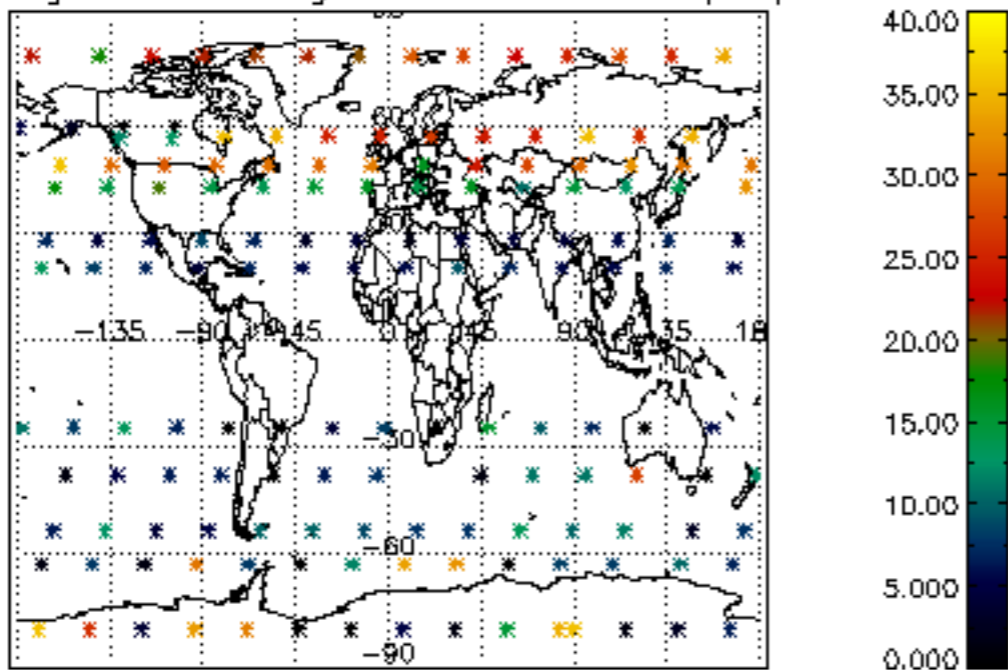
Percentage of cosmic ray hits per profile



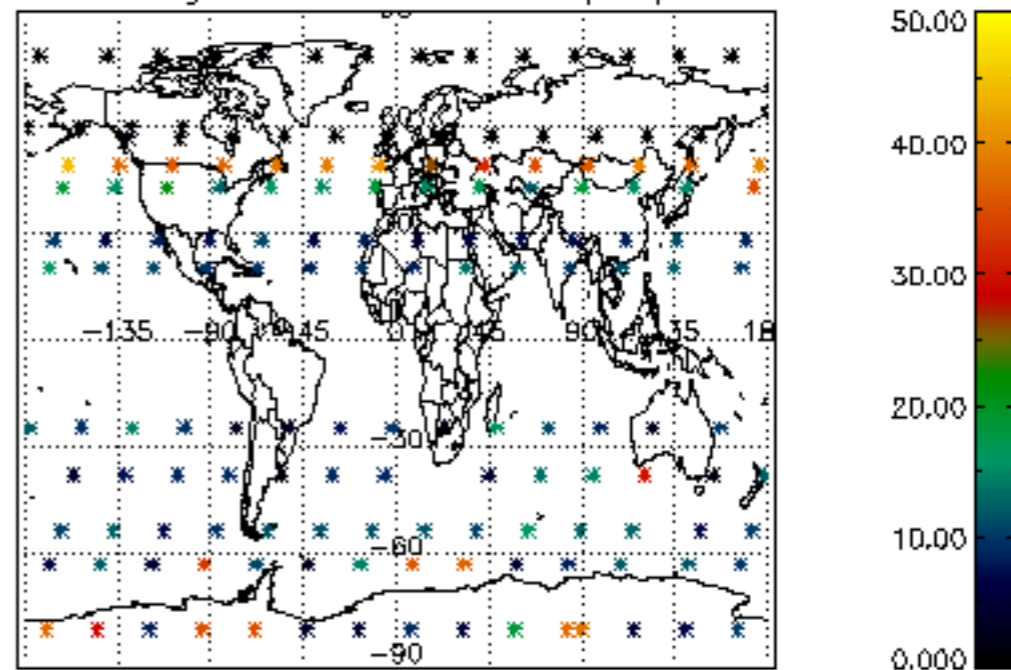
Percentage of datation errors per profile

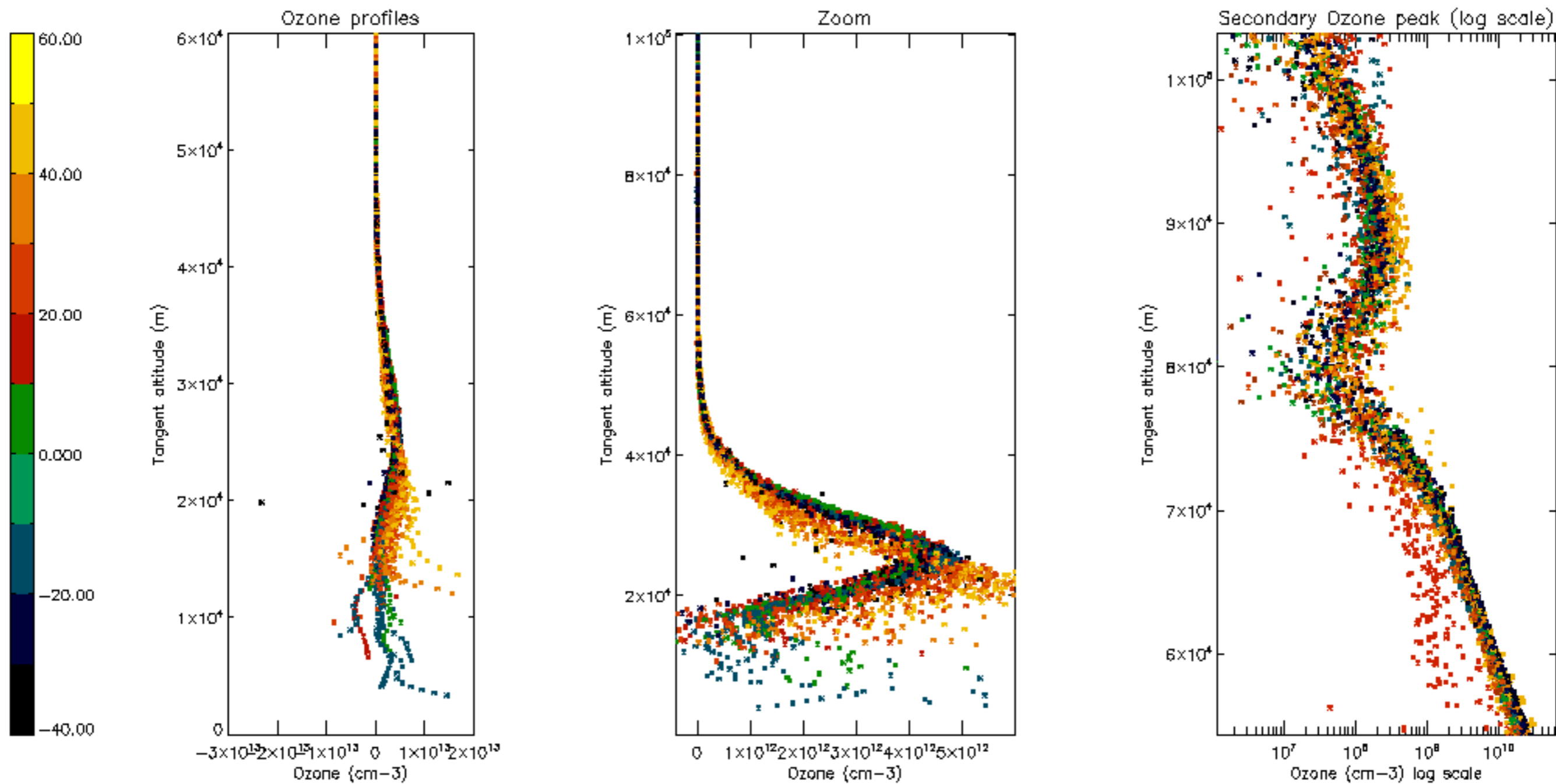


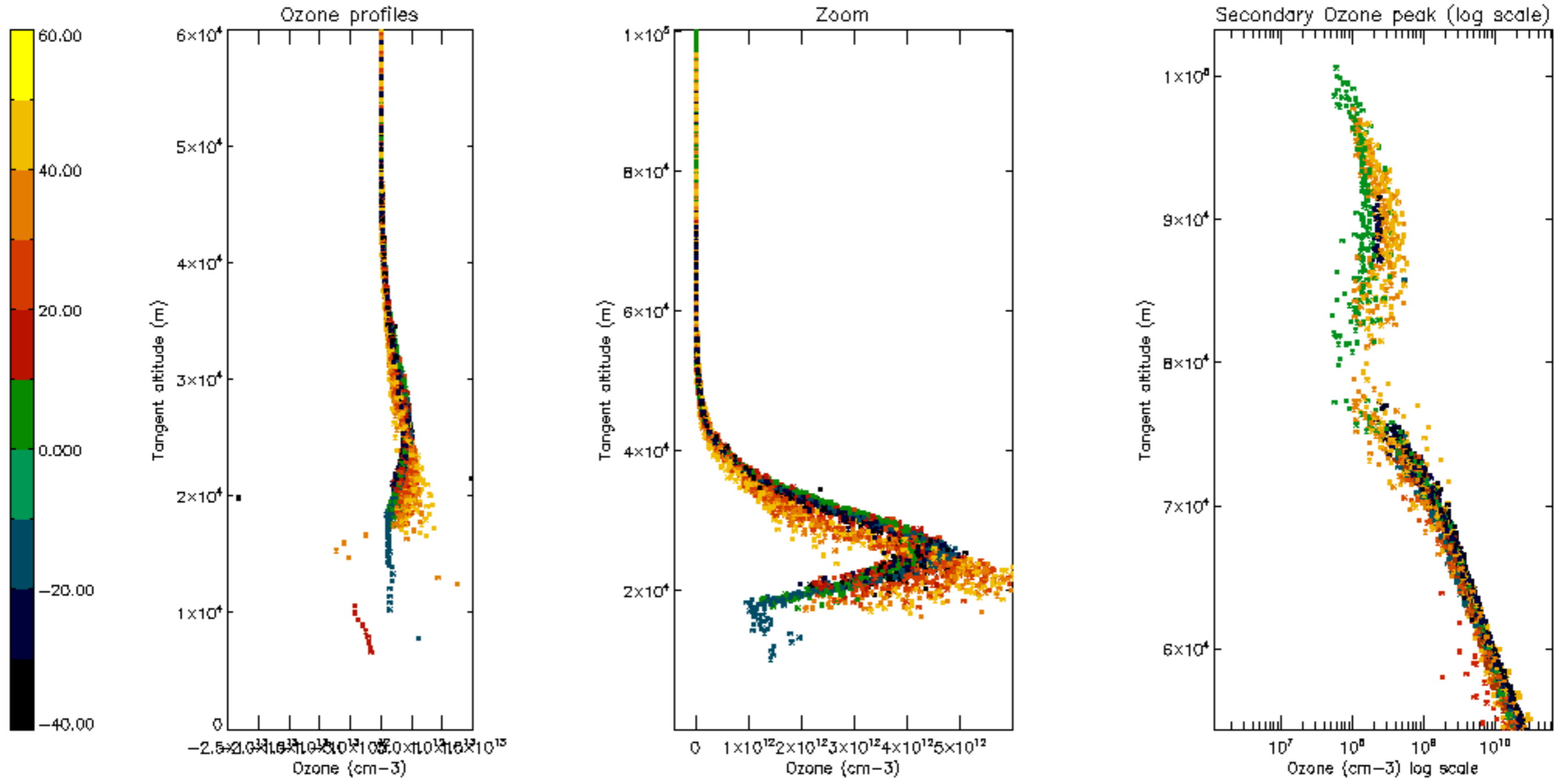
Percentage of star falling outside central band per profile

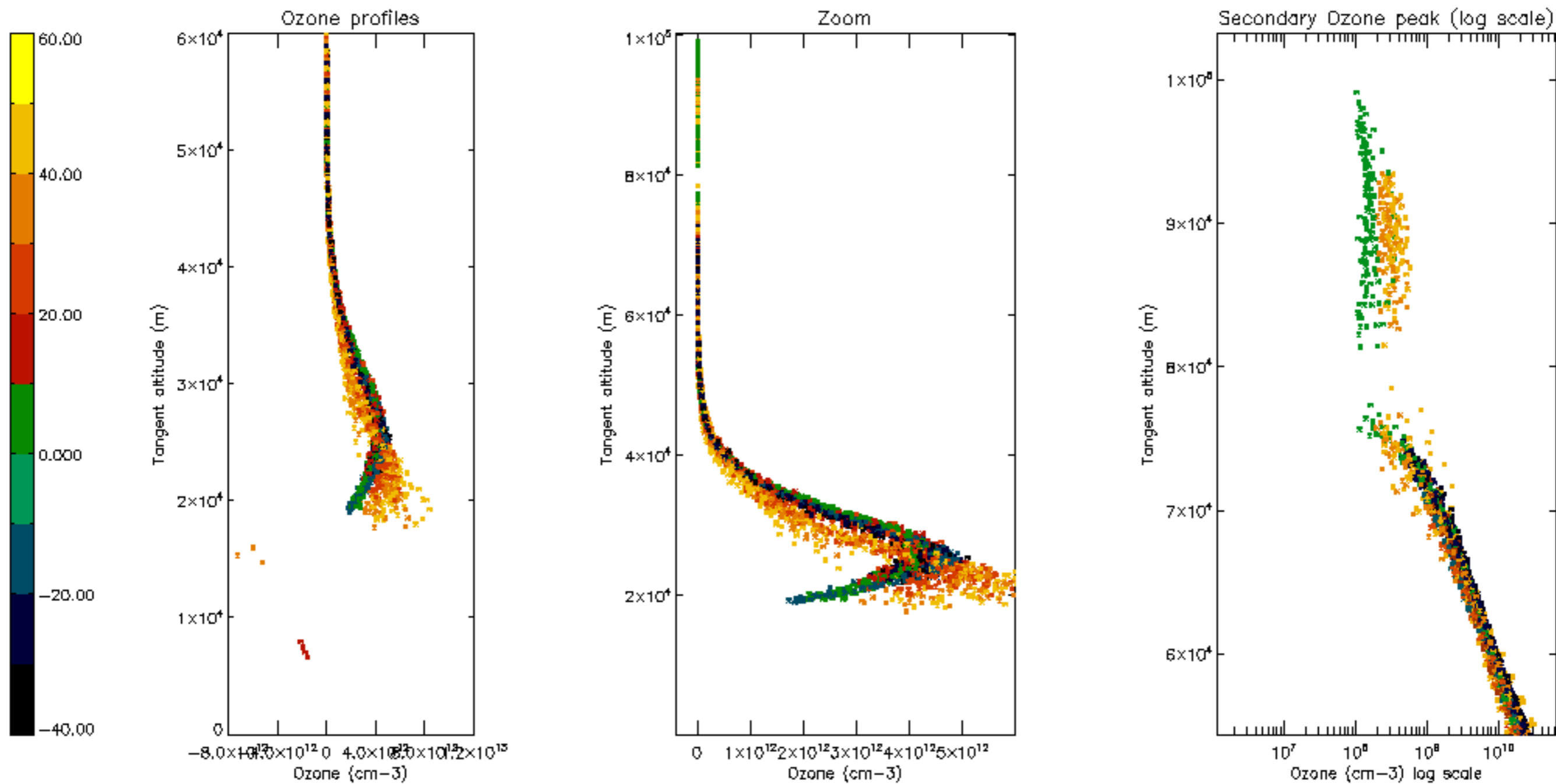


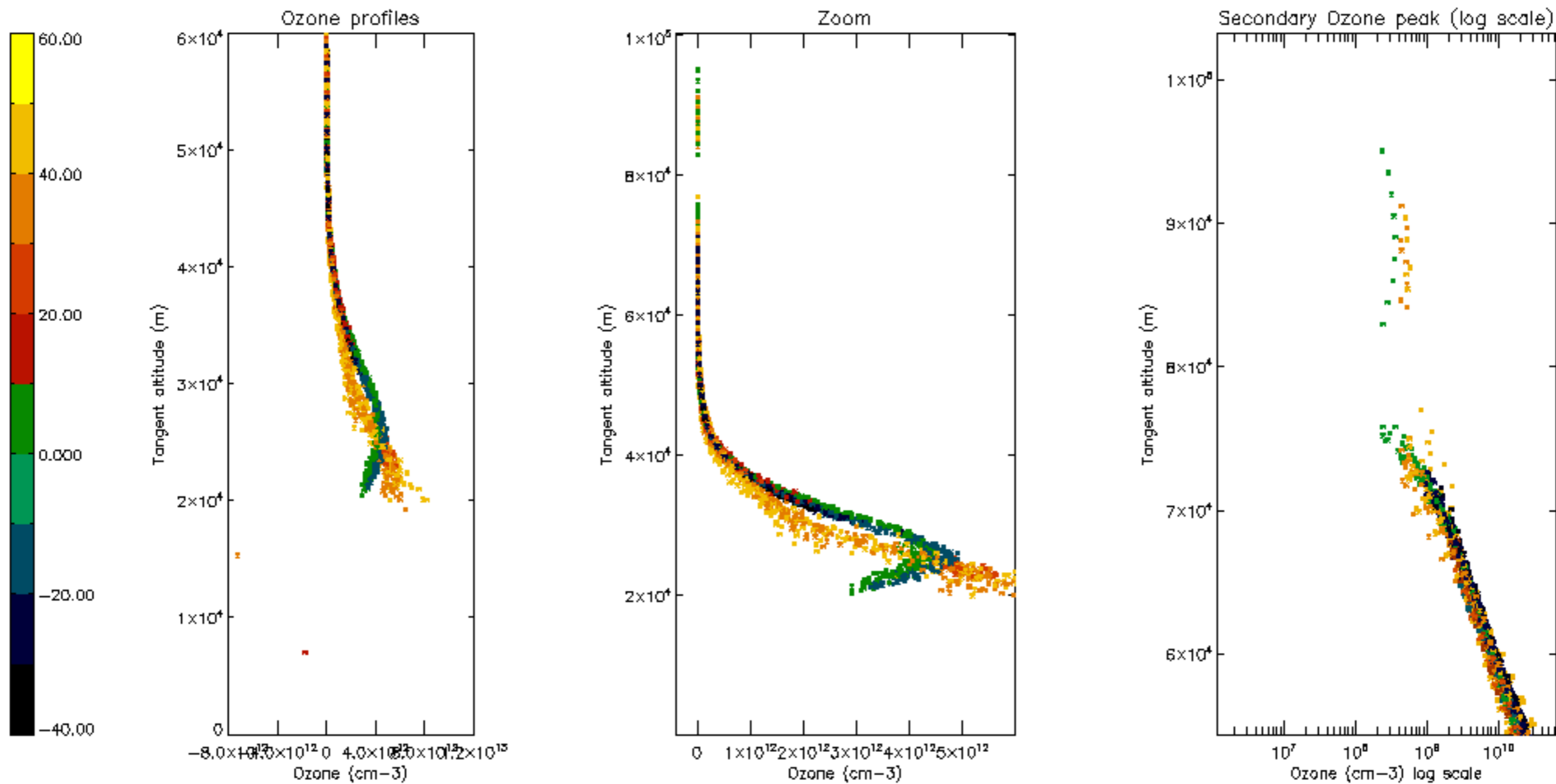
Percentage of saturation errors per profile

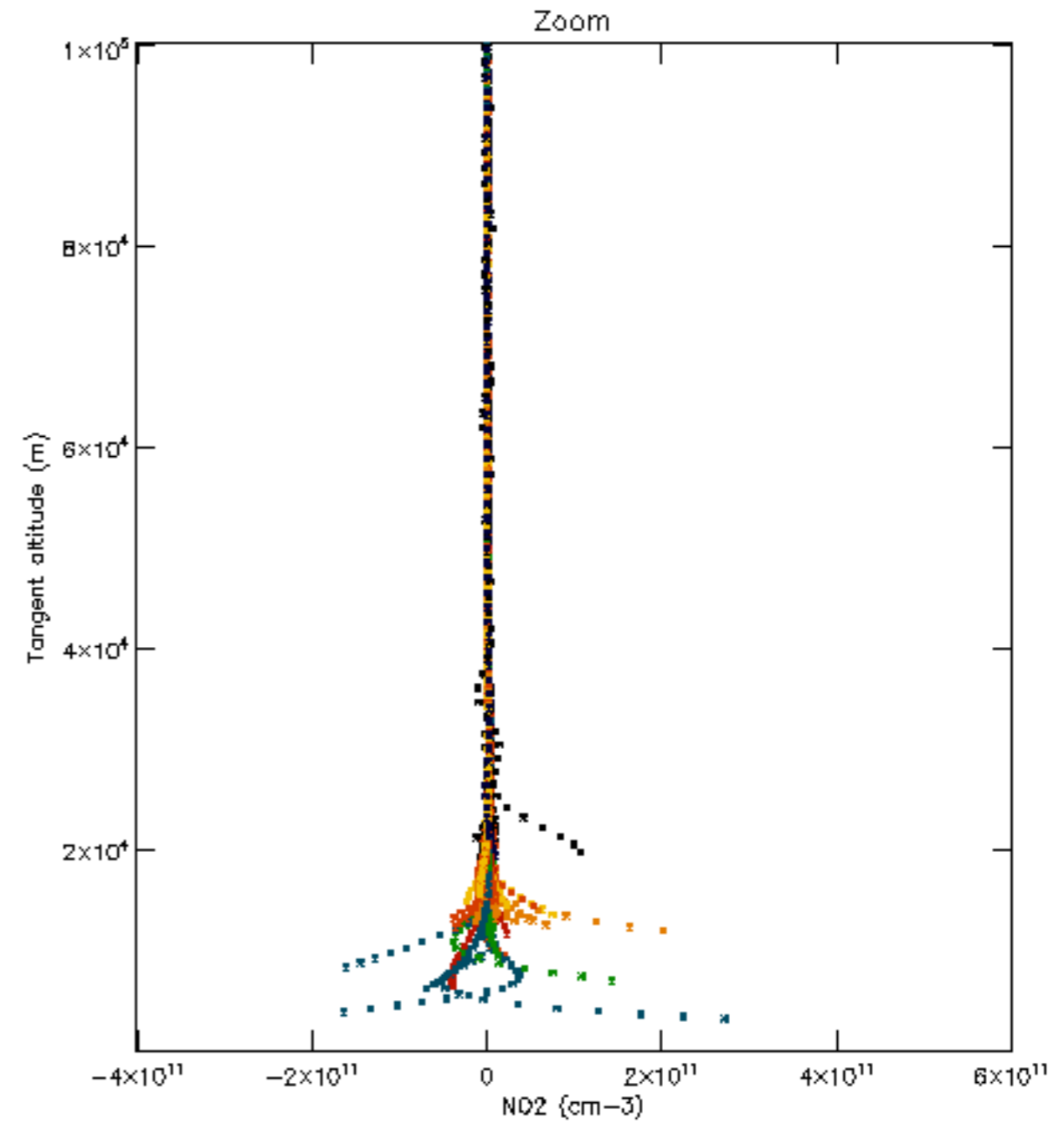
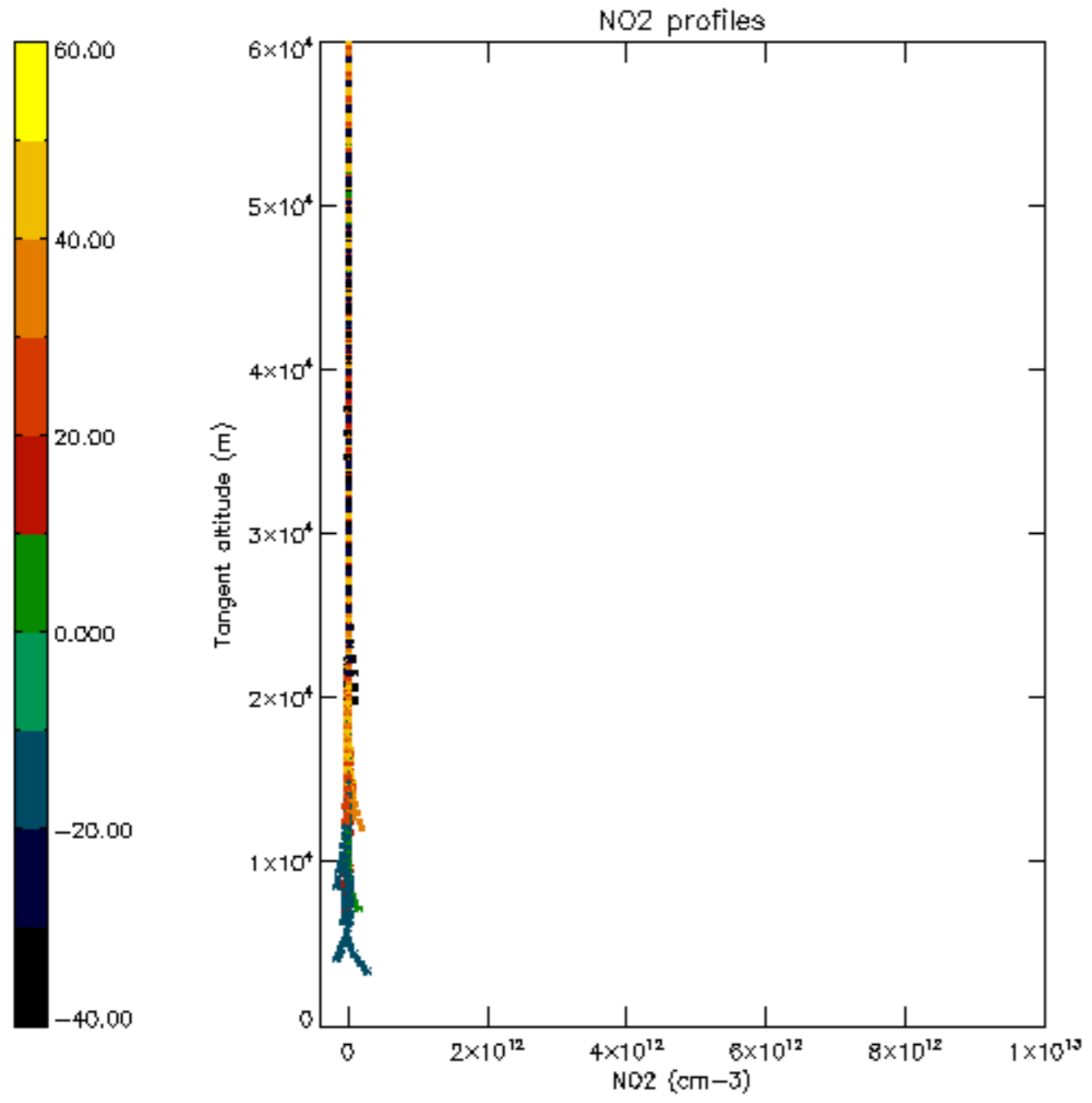


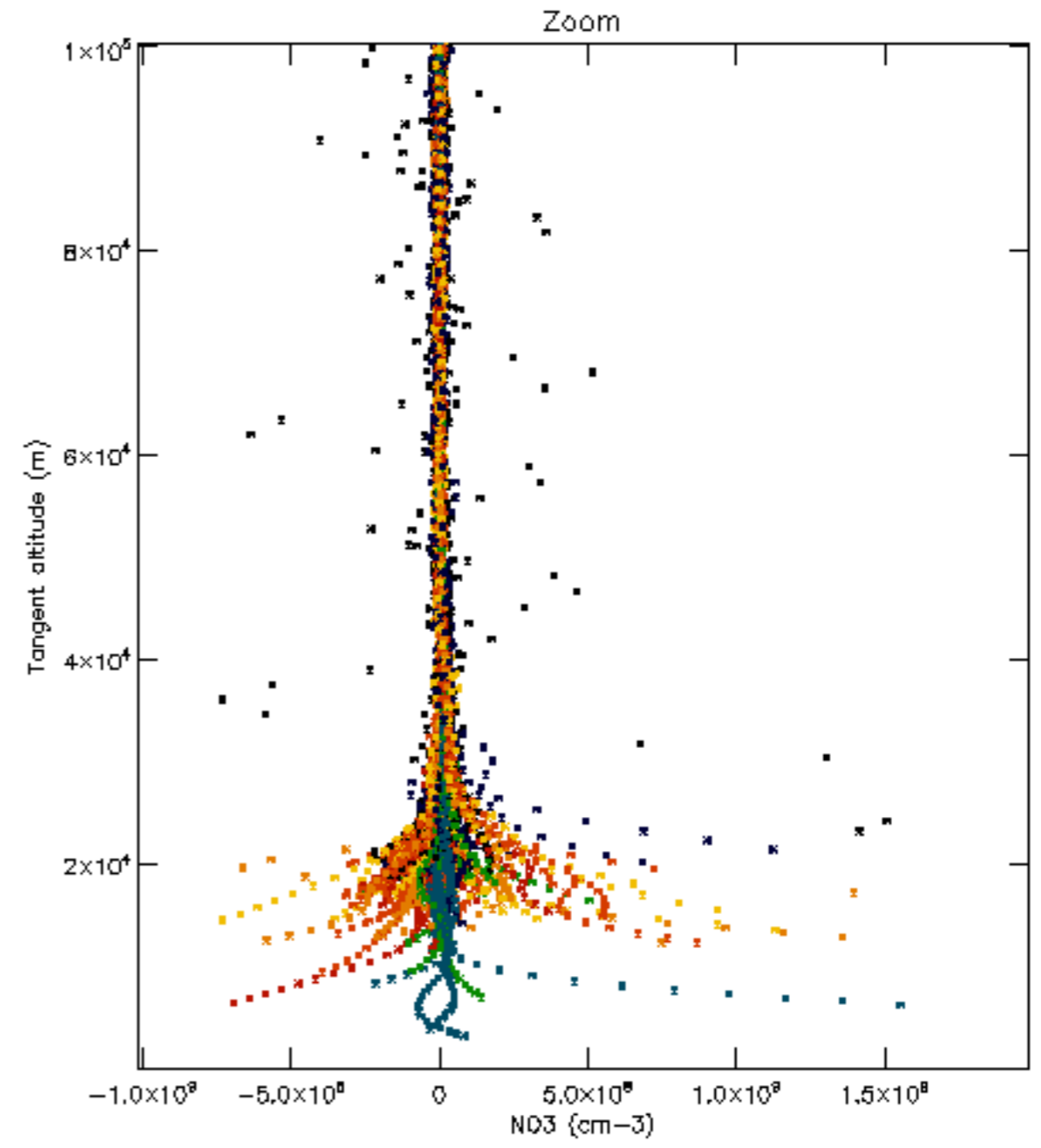
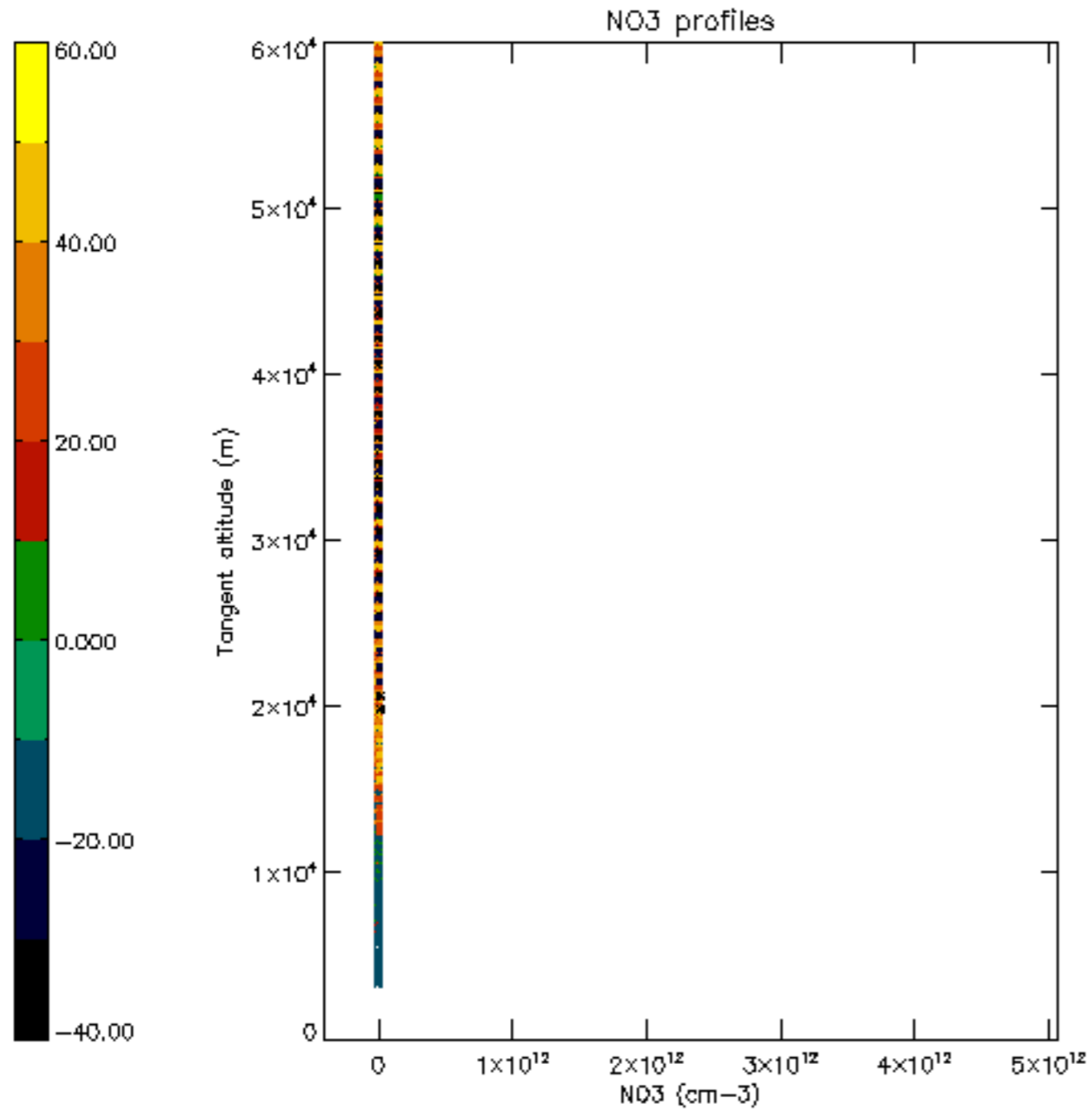




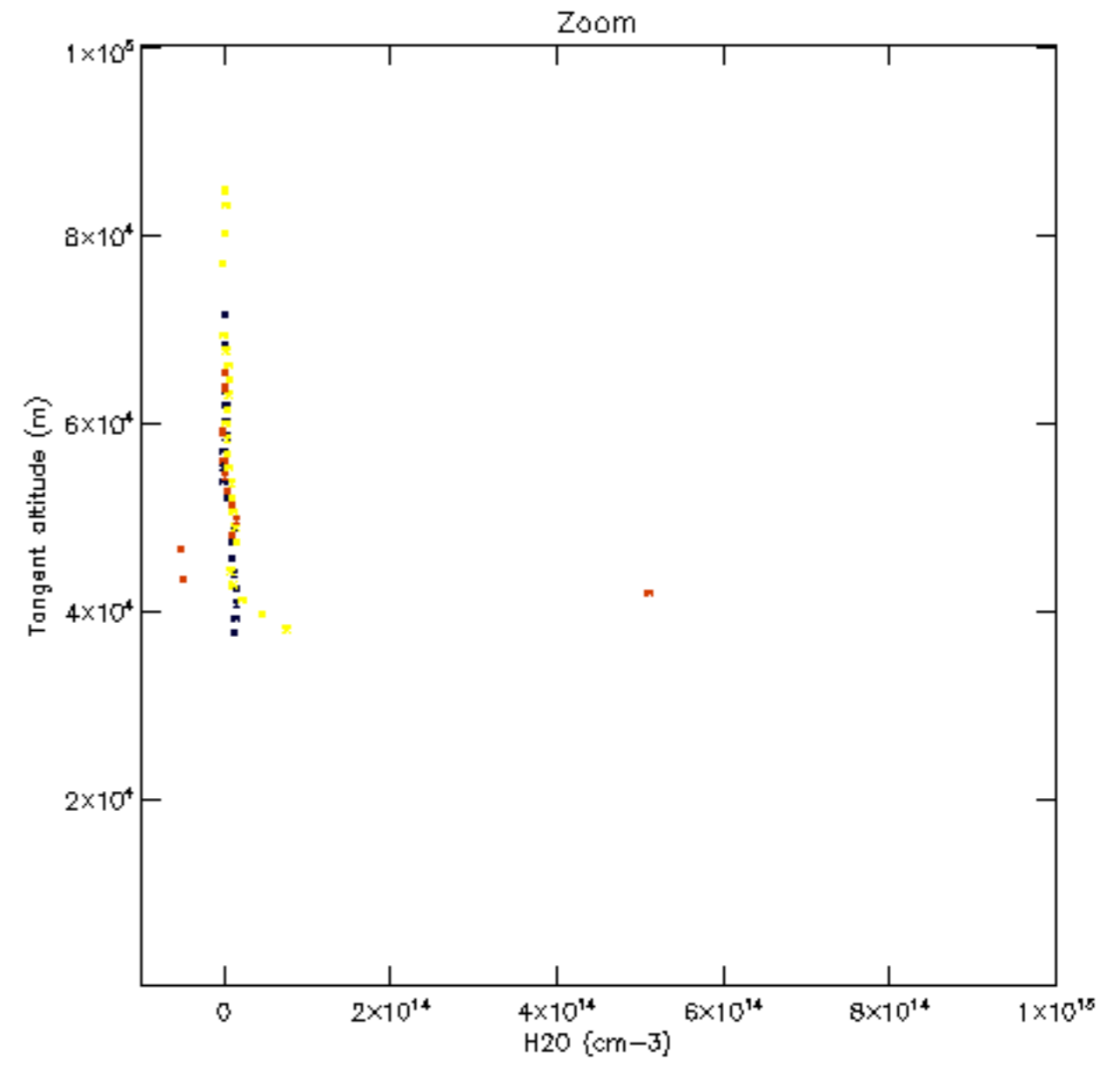
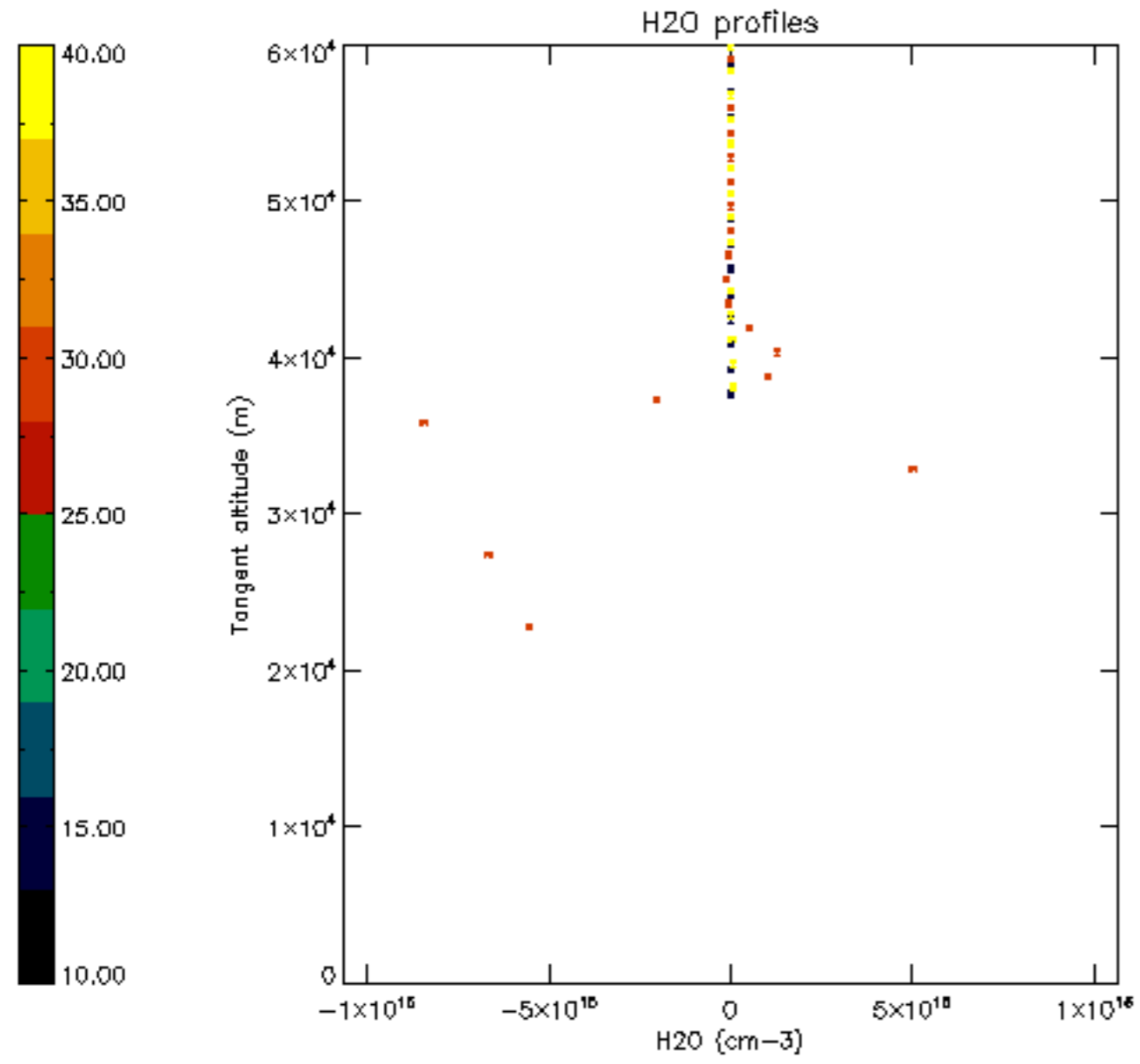


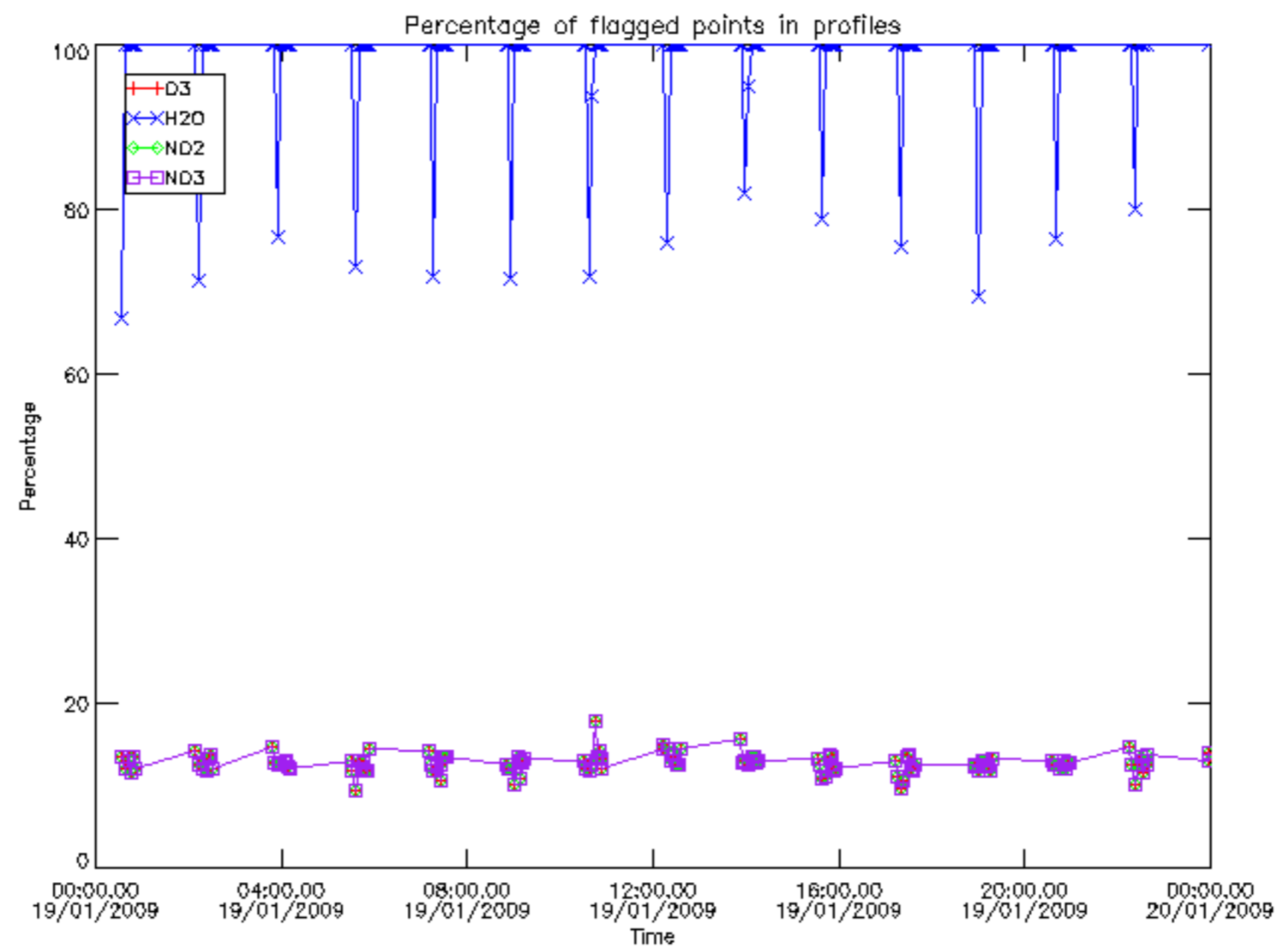




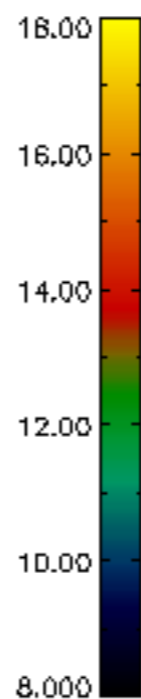
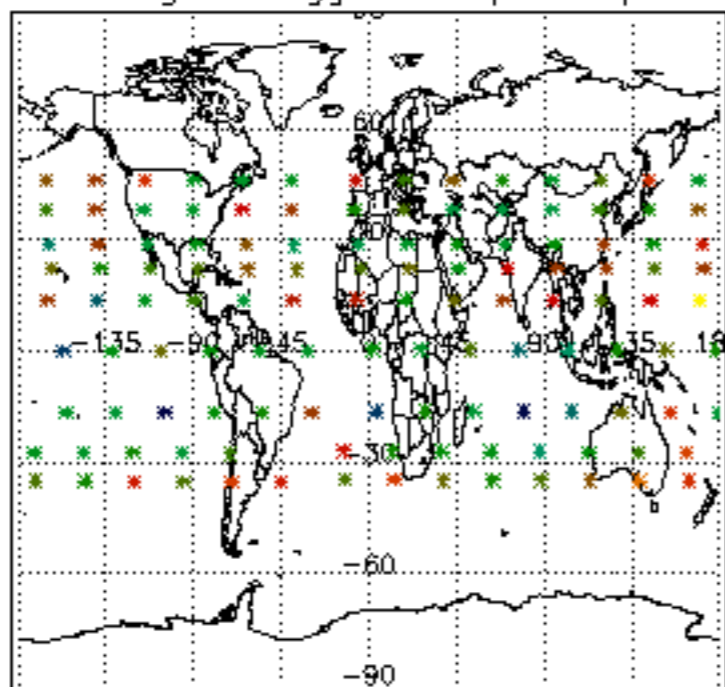




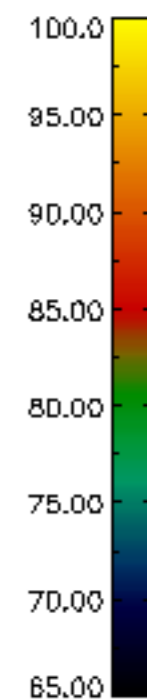
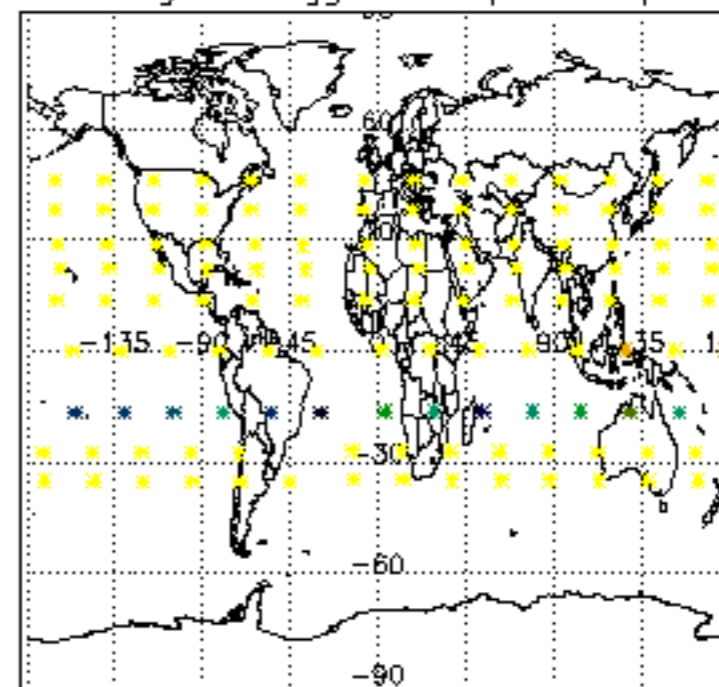




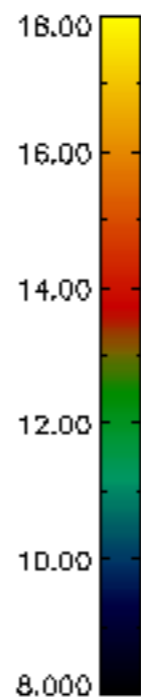
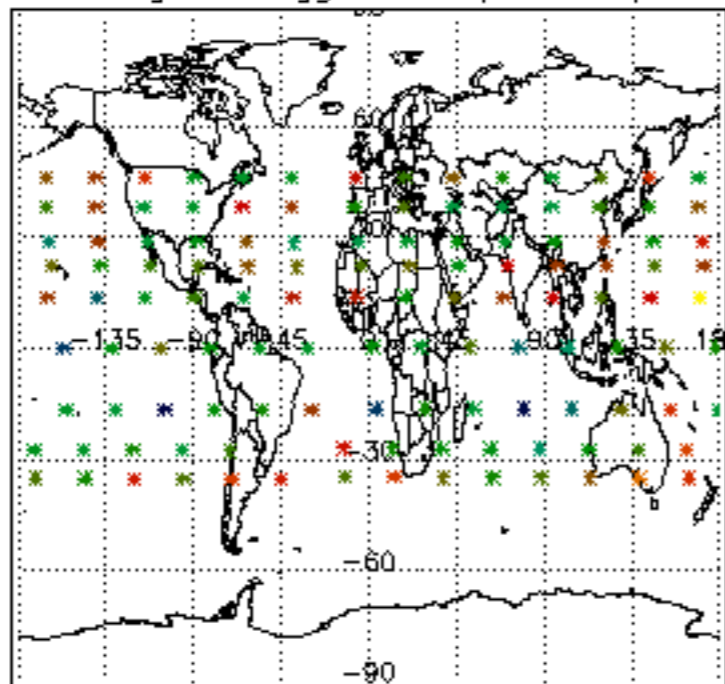
Percentage of flagged data per D3 profile



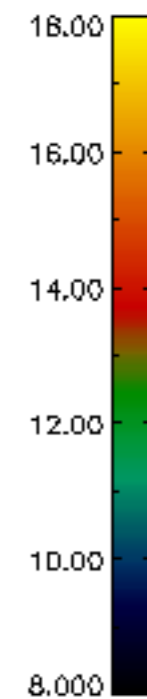
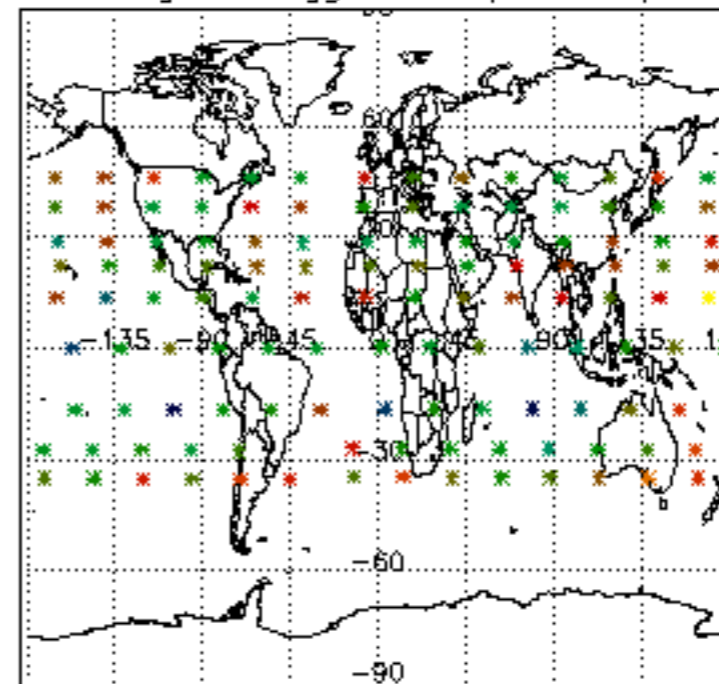
Percentage of flagged data per H2O profile

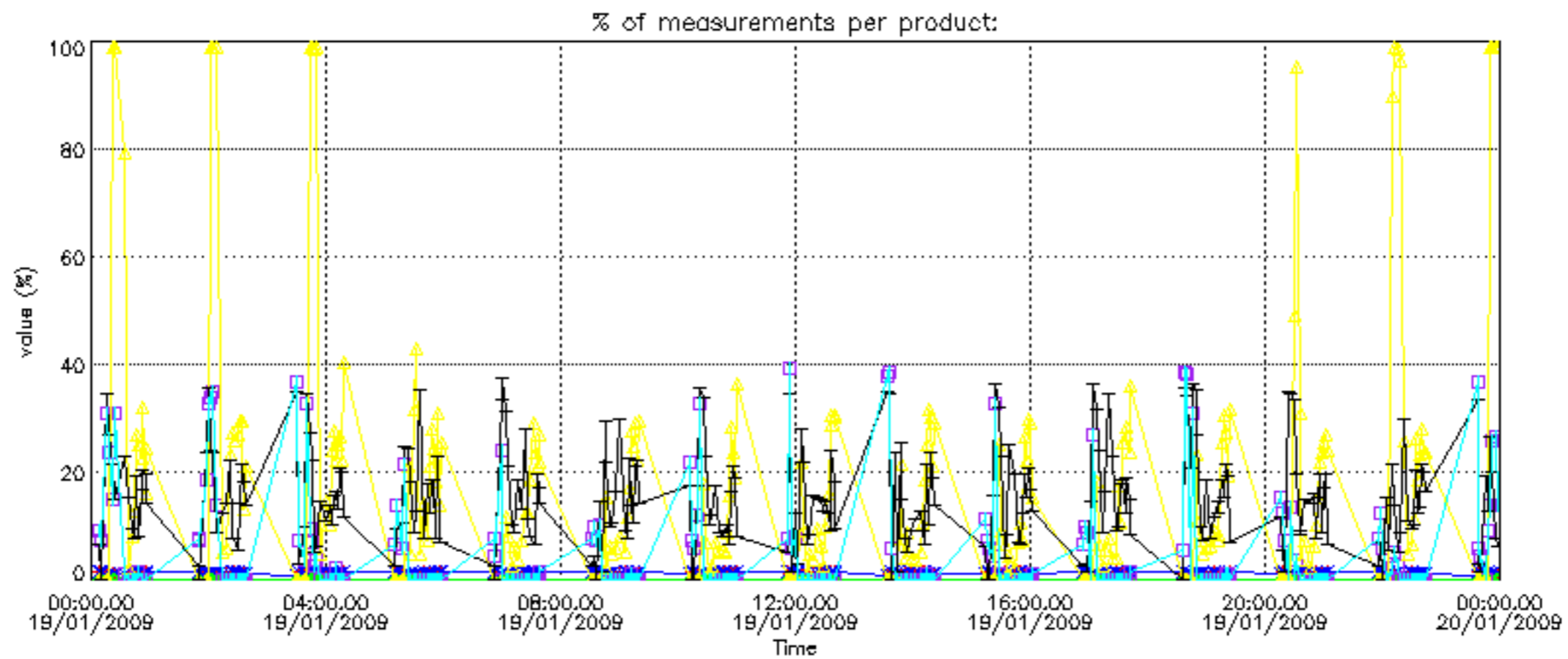


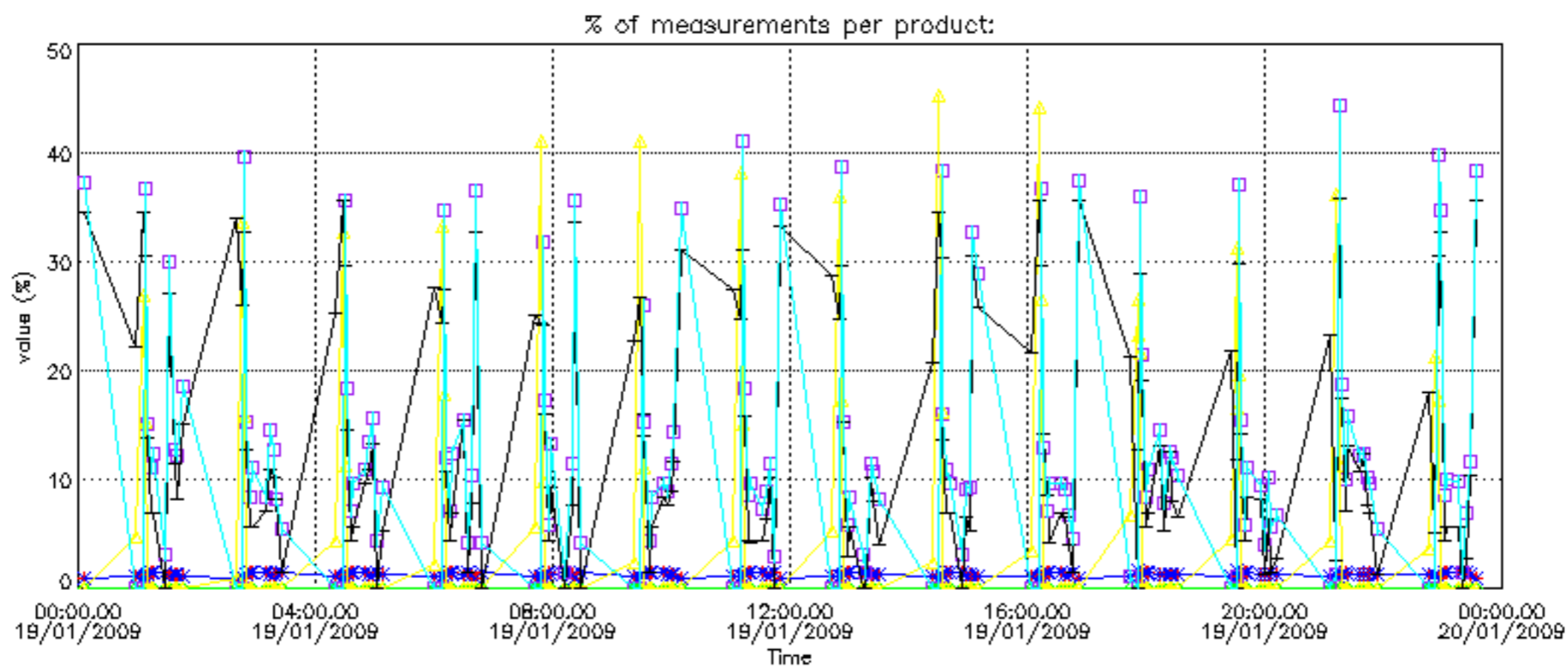
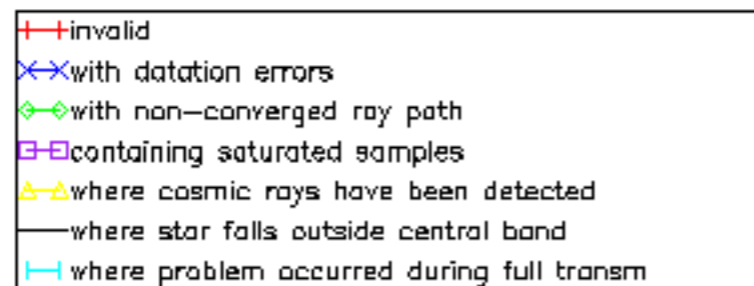
Percentage of flagged data per NO2 profile



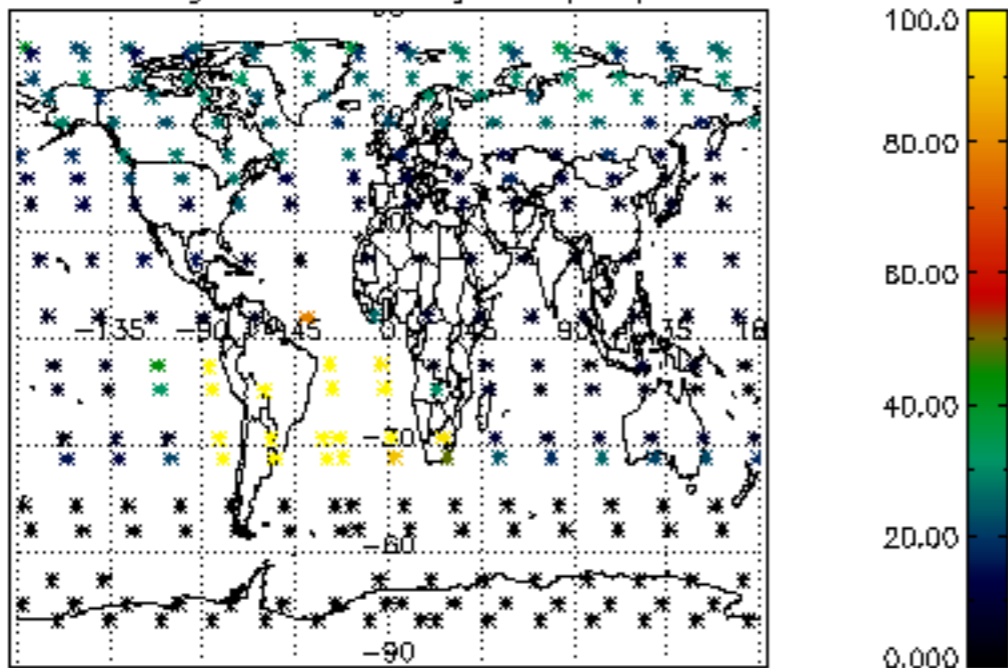
Percentage of flagged data per NO3 profile



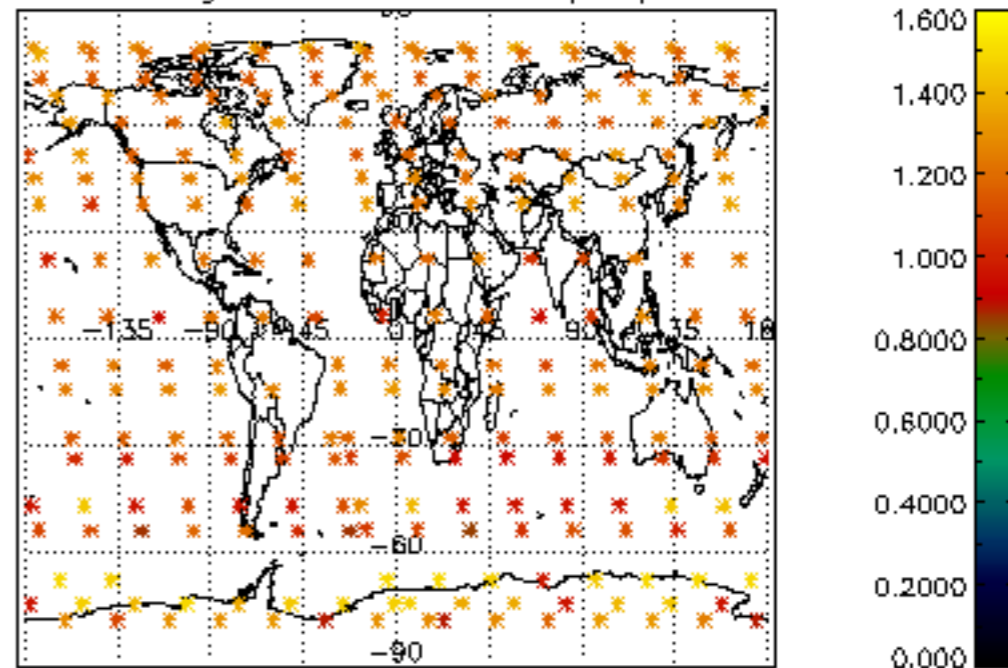




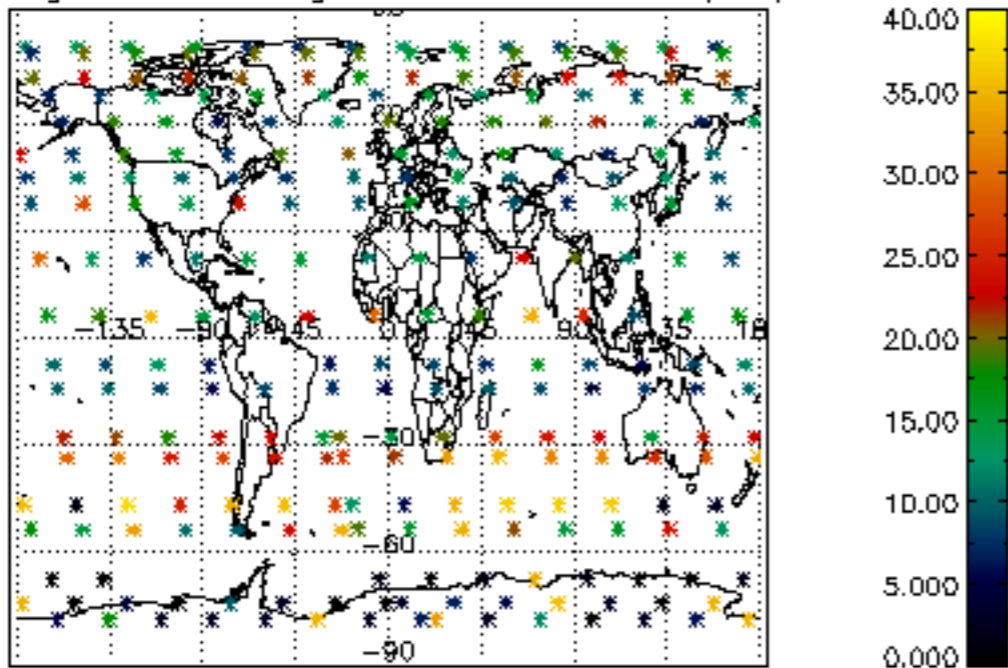
Percentage of cosmic ray hits per profile



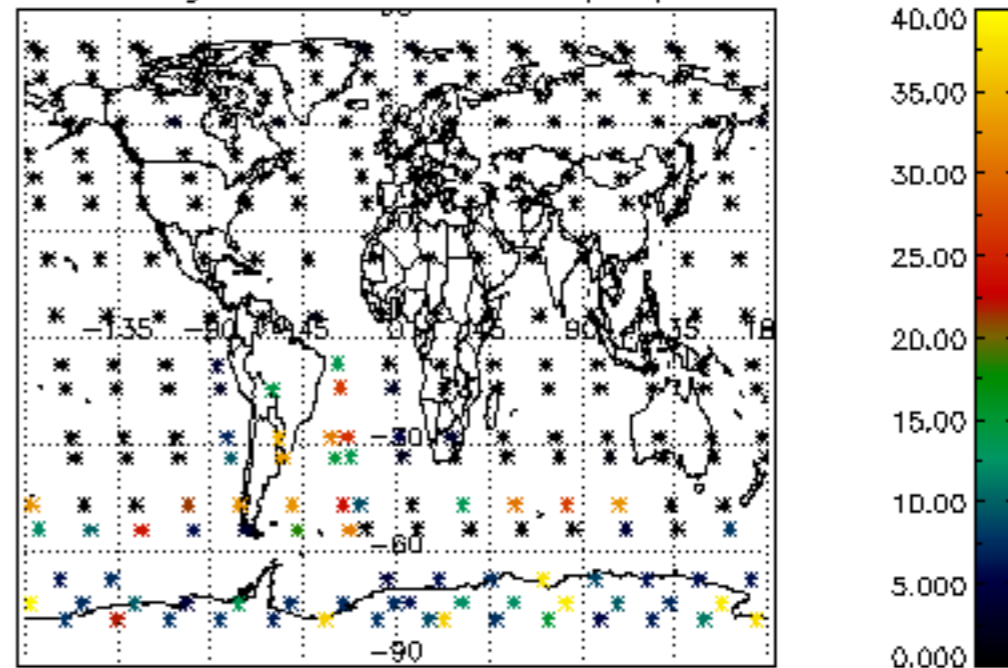
Percentage of datation errors per profile



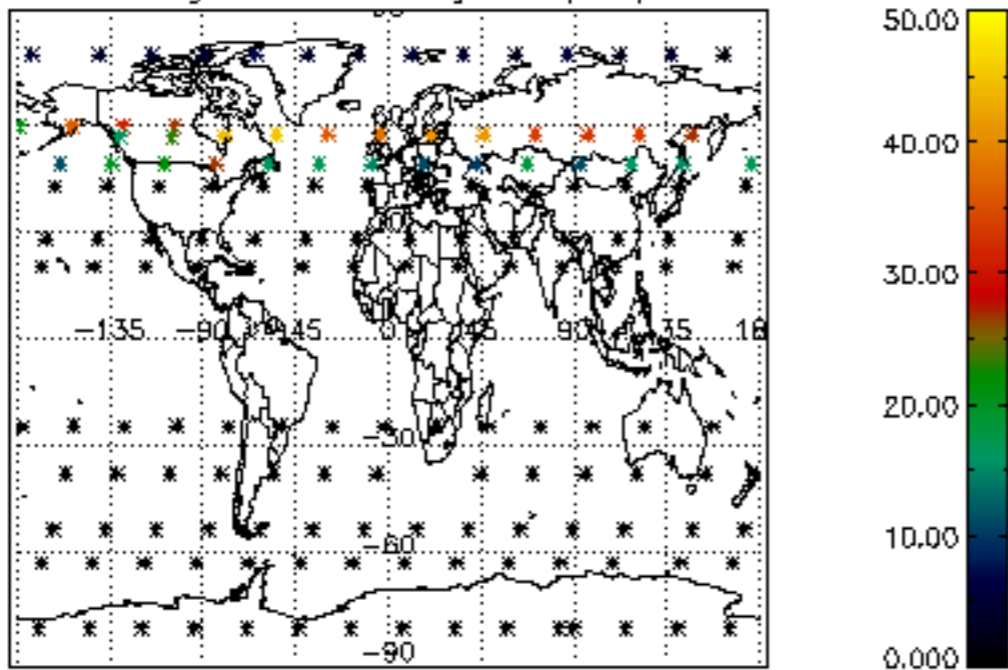
Percentage of star falling outside central band per profile



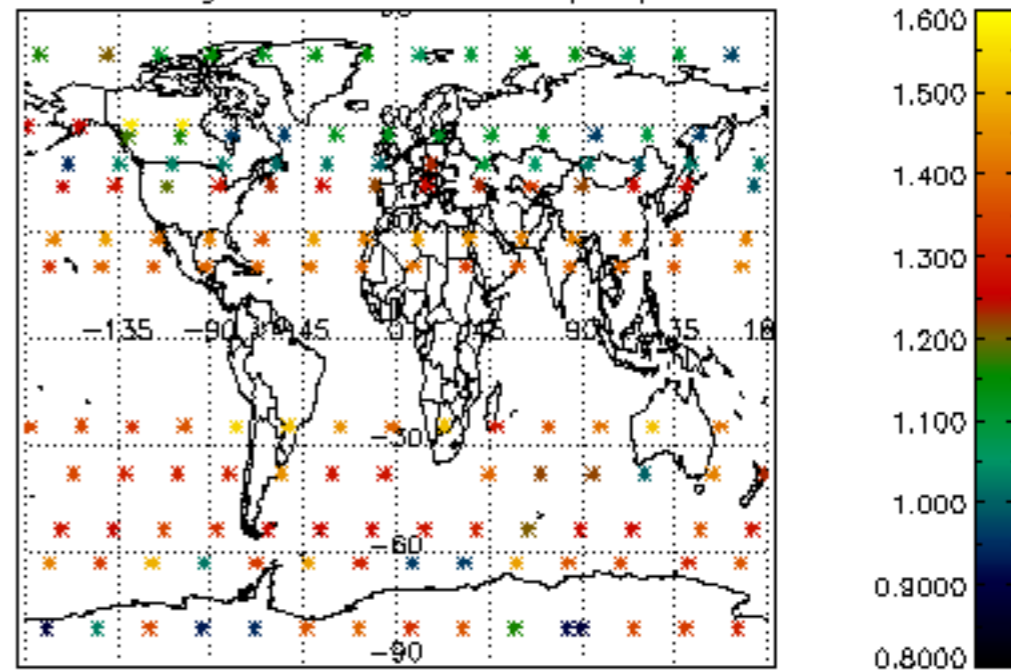
Percentage of saturation errors per profile



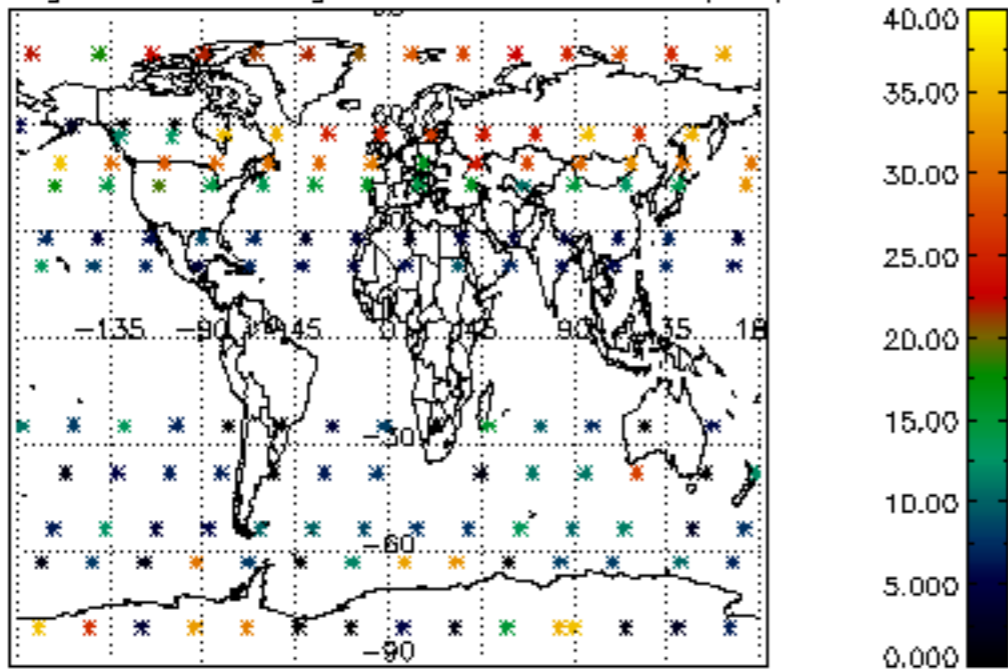
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

