

# 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	19APR2013 14:34:05
Data source version	GOMOS/6.01
Start time of products	02-06-2003 (02JUN2003 00:00:00)
Stop time of products	03-06-2003 (03JUN2003 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	394
Nb of prods with errors	1

## 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__2PRFIN20030602_000105_000000482016_00488_06554_7144.N1	02-JUN-2003 00:01:05	Dark	47.500	52	16Bet Cet	2.0370	4500.0	95	6554	No
2	GOM_NL__2PRFIN20030602_000746_000000482016_00488_06554_7145.N1	02-JUN-2003 00:07:46	Dark	47.500	84	Alp Phe	2.3970	4500.0	95	6554	No
3	GOM_NL__2PRFIN20030602_001307_000000622016_00489_06555_7142.N1	02-JUN-2003 00:13:07	Dark	62.000	63	Bet Gru	2.1500	2800.0	124	6555	No
4	GOM_NL__2PRFIN20030602_001500_000000472016_00489_06555_7143.N1	02-JUN-2003 00:15:00	Dark	46.500	31	Alp Gru	1.7340	15200.	93	6555	No
5	GOM_NL__2PRFIN20030602_001957_000000442016_00489_06555_7144.N1	02-JUN-2003 00:19:57	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	6555	No
6	GOM_NL__2PRFIN20030602_002606_000000492016_00489_06555_7145.N1	02-JUN-2003 00:26:06	Straylight	48.500	141	Bet Ara	2.8400	4600.0	97	6555	No
7	GOM_NL__2PRFIN20030602_002722_000000422016_00489_06555_7146.N1	02-JUN-2003 00:27:22	Straylight	41.500	147	Alp Ara	2.8770	26000.	83	6555	No
8	GOM_NL__2PRFIN20030602_002903_000000472016_00489_06555_7147.N1	02-JUN-2003 00:29:03	Straylight	46.500	40	The Sco	1.8590	7100.0	93	6555	No
9	GOM_NL__2PRFIN20030602_003051_000000502016_00489_06555_7148.N1	02-JUN-2003 00:30:51	Dark	49.500	25	35Lam Sco	1.6200	28000.	99	6555	Yes
10	GOM_NL__2PRFIN20030602_003236_000000482016_00489_06555_7149.N1	02-JUN-2003 00:32:36	Twilight	47.500	75	26Eps Sco	2.2910	4250.0	95	6555	No
11	GOM_NL__2PRFIN20030602_003438_000000422016_00489_06555_7150.N1	02-JUN-2003 00:34:38	Bright	41.500	136	23Tau Sco	2.8220	30000.	83	6555	No
12	GOM_NL__2PRFIN20030602_003643_000000392016_00489_06555_7151.N1	02-JUN-2003 00:36:43	Bright	39.000	80	7Del Sco	2.3160	30000.	78	6555	No
13	GOM_NL__2PRFIN20030602_003815_000000462016_00489_06555_7152.N1	02-JUN-2003 00:38:15	Bright	45.500	86	35Eta Oph	2.4300	10200.	91	6555	No
14	GOM_NL__2PRFIN20030602_004006_000000412016_00489_06555_7153.N1	02-JUN-2003 00:40:06	Bright	41.000	98	13Zet Oph	2.5710	30000.	82	6555	No
15	GOM_NL__2PRFIN20030602_004217_000000412016_00489_06555_7154.N1	02-JUN-2003 00:42:17	Bright	40.500	120	1Del Oph	2.7340	3200.0	81	6555	No
16	GOM_NL__2PRFIN20030602_004518_000000372016_00489_06555_7155.N1	02-JUN-2003 00:45:18	Bright	37.000	102	24Alp Ser	2.6000	4250.0	74	6555	No
17	GOM_NL__2PRFIN20030602_005112_000000372016_00489_06555_7156.N1	02-JUN-2003 00:51:12	Bright	37.000	67	5Alp CrB	2.2210	11000.	74	6555	No
18	GOM_NL__2PRFIN20030602_005427_000000352016_00489_06555_7157.N1	02-JUN-2003 00:54:27	Bright	34.500	180	27Gam Boo	3.0400	8000.0	69	6555	No
19	GOM_NL__2PRFIN20030602_010146_000000362016_00489_06555_7158.N1	02-JUN-2003 01:01:46	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	6555	No
20	GOM_NL__2PRFIN20030602_010429_000000382016_00489_06555_7159.N1	02-JUN-2003 01:04:29	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	6555	No
21	GOM_NL__2PRFIN20030602_010910_000000362016_00489_06555_7160.N1	02-JUN-2003 01:09:10	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	6555	No
22	GOM_NL__2PRFIN20030602_011208_000000462016_00489_06555_7161.N1	02-JUN-2003 01:12:08	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	6555	No
23	GOM_NL__2PRFIN20030602_011430_000000832016_00489_06555_7162.N1	02-JUN-2003 01:14:30	Bright	83.000	19	50Alp Cyg	1.2460	10500.	166	6555	No
24	GOM_NL__2PRFIN20030602_011712_000000392016_00489_06555_7163.N1	02-JUN-2003 01:17:12	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	6555	No
25	GOM_NL__2PRFIN20030602_012459_000000472016_00489_06555_7164.N1	02-JUN-2003 01:24:59	Bright	47.000	53	43Bet And	2.0480	3300.0	94	6555	No
26	GOM_NL__2PRFIN20030602_012741_000000542016_00489_06555_7165.N1	02-JUN-2003 01:27:41	Twilight	53.500	58	21Alp And	2.0730	11000.	107	6555	No
27	GOM_NL__2PRFIN20030602_012915_000000922016_00489_06555_7166.N1	02-JUN-2003 01:29:15	Dark	92.000	93	53Bet Peg	2.5200	3100.0	184	6555	No
28	GOM_NL__2PRFIN20030602_013241_000000532016_00489_06555_7167.N1	02-JUN-2003 01:32:41	Dark	53.000	140	88Gam Peg	2.8340	26000.	106	6555	No
29	GOM_NL__2PRFIN20030602_013605_000000902016_00489_06555_7168.N1	02-JUN-2003 01:36:05	Dark	90.000	90	54Alp Peg	2.4870	11000.	180	6555	No
30	GOM_NL__2PRFIN20030602_014141_000000502016_00489_06555_7169.N1	02-JUN-2003 01:41:41	Dark	50.000	52	16Bet Cet	2.0370	4500.0	100	6555	No
31	GOM_NL__2PRFIN20030602_014822_000000462016_00489_06555_7170.N1	02-JUN-2003 01:48:22	Dark	46.000	84	Alp Phe	2.3970	4500.0	92	6555	No
32	GOM_NL__2PRFIN20030602_015028_000000552016_00489_06555_7171.N1	02-JUN-2003 01:50:28	Dark	55.000	18	24Alp PsA	1.1660	9700.0	110	6555	No
33	GOM_NL__2PRFIN20030602_015344_000000522016_00490_06556_7036.N1	02-JUN-2003 01:53:44	Dark	52.000	63	Bet Gru	2.1500	2800.0	104	6556	No
34	GOM_NL__2PRFIN20030602_015537_000000462016_00490_06556_7037.N1	02-JUN-2003 01:55:37	Dark	46.000	31	Alp Gru	1.7340	15200.	92	6556	No
35	GOM_NL__2PRFIN20030602_020033_000000432016_00490_06556_7038.N1	02-JUN-2003 02:00:33	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	6556	No
36	GOM_NL__2PRFIN20030602_020642_000000432016_00490_06556_7039.N1	02-JUN-2003 02:06:42	Straylight	43.000	141	Bet Ara	2.8400	4600.0	86	6556	No
37	GOM_NL__2PRFIN20030602_020758_000000412016_00490_06556_7040.N1	02-JUN-2003 02:07:58	Straylight	40.500	147	Alp Ara	2.8770	26000.	81	6556	No
38	GOM_NL__2PRFIN20030602_020939_000000482016_00490_06556_7041.N1	02-JUN-2003 02:09:39	Straylight	47.500	40	The Sco	1.8590	7100.0	95	6556	No
39	GOM_NL__2PRFIN20030602_021127_000000492016_00490_06556_7042.N1	02-JUN-2003 02:11:27	Twilight	48.500	25	35Lam Sco	1.6200	28000.	97	6556	No
40	GOM_NL__2PRFIN20030602_021312_000000462016_00490_06556_7043.N1	02-JUN-2003 02:13:12	Twilight	46.000	75	26Eps Sco	2.2910	4250.0	92	6556	No
41	GOM_NL__2PRFIN20030602_021514_000000442016_00490_06556_7044.N1	02-JUN-2003 02:15:14	Bright	44.000	136	23Tau Sco	2.8220	30000.	88	6556	No
42	GOM_NL__2PRFIN20030602_021718_000000412016_00490_06556_7045.N1	02-JUN-2003 02:17:18	Bright	40.500	80	7Del Sco	2.3160	30000.	81	6556	No











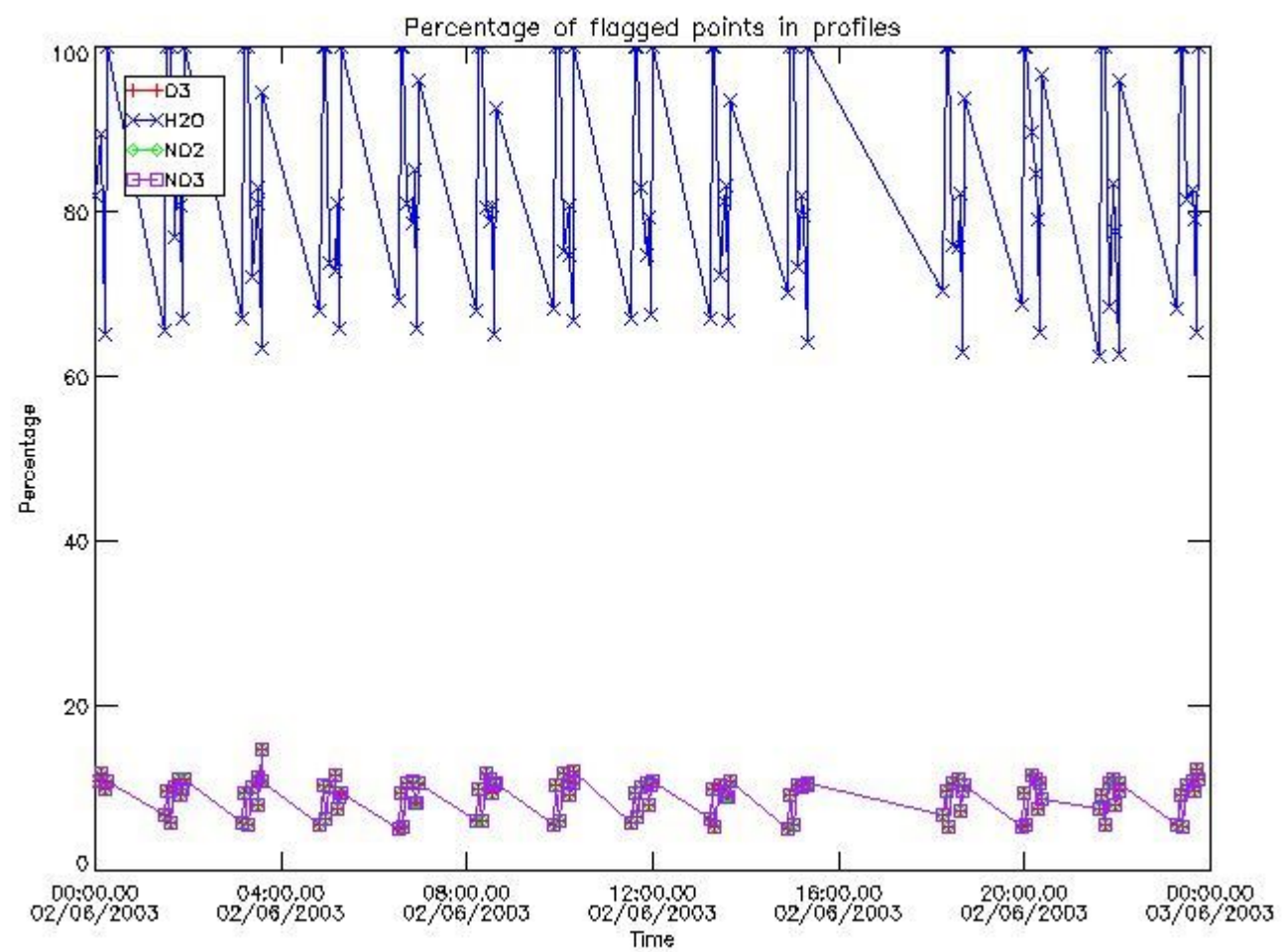




### 3. Quality information per product

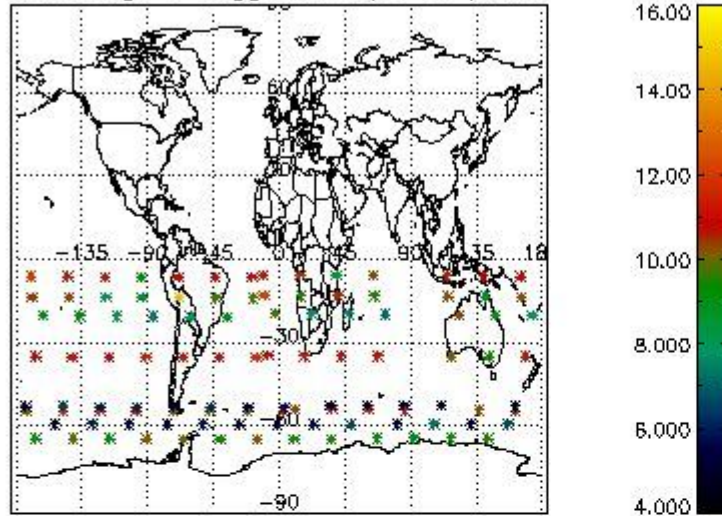
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

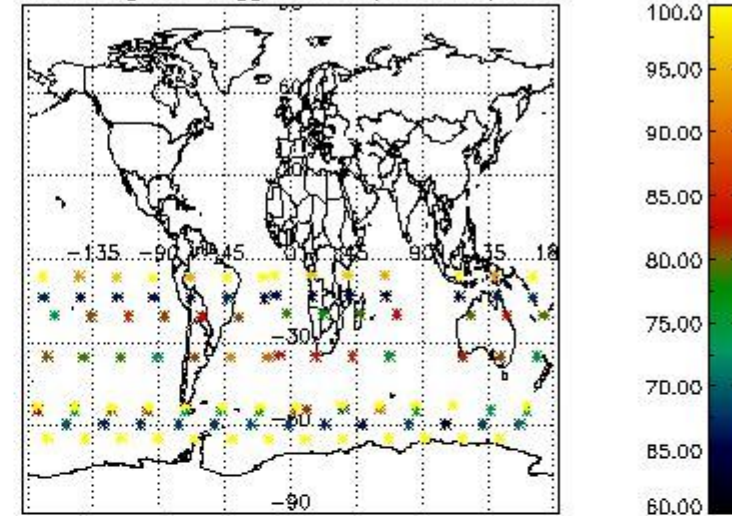


#### 3.2 Plot quality information per product (world map)

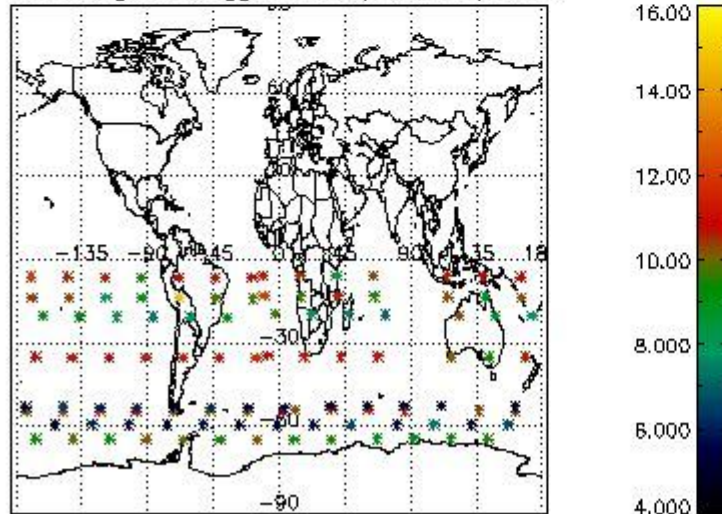
Percentage of flagged data per O3 profile



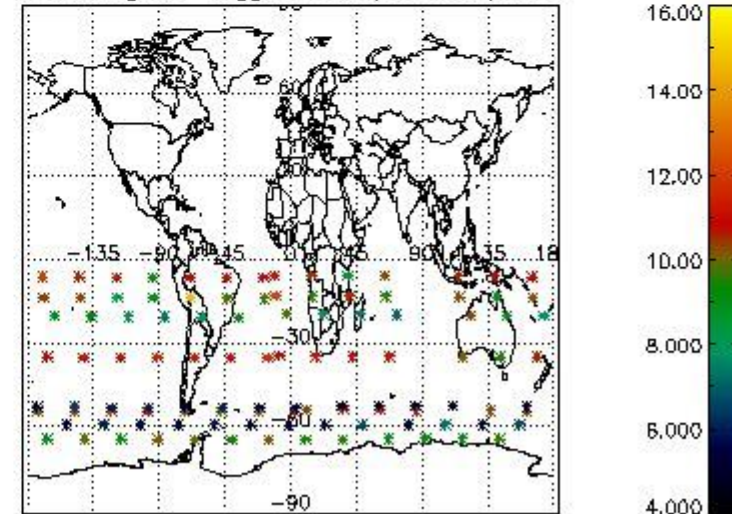
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

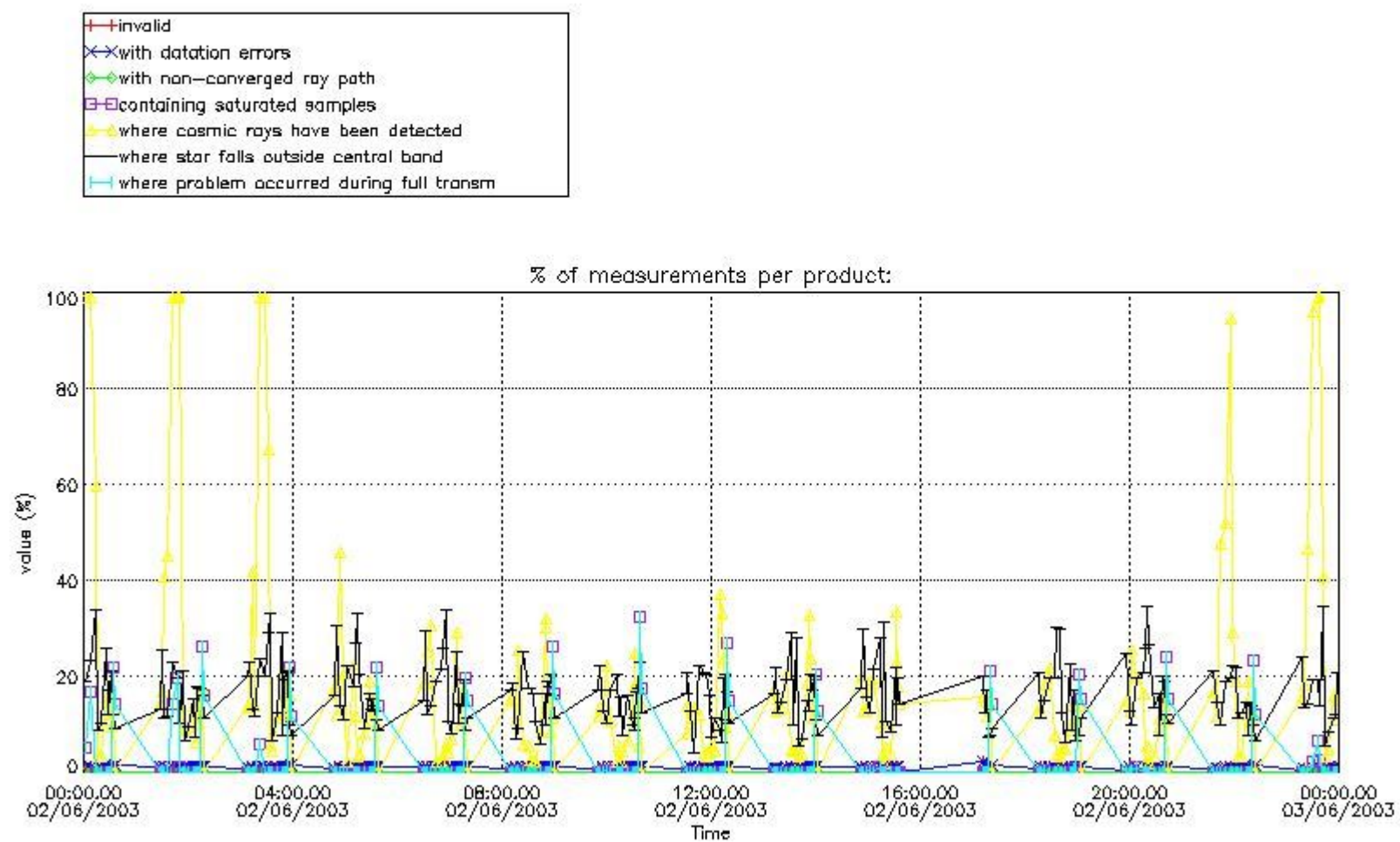


#### 4. Level 1 quality information per product

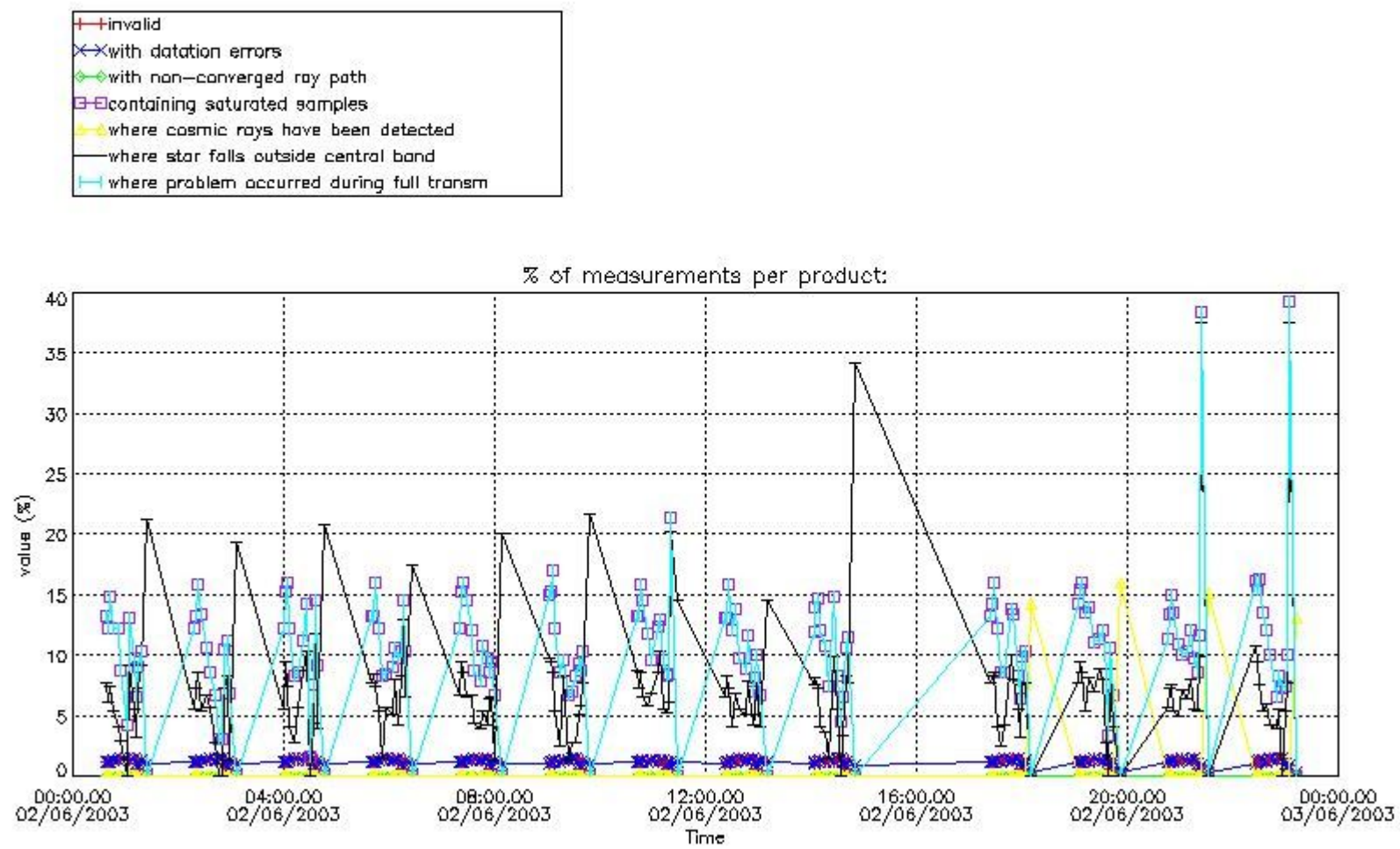
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

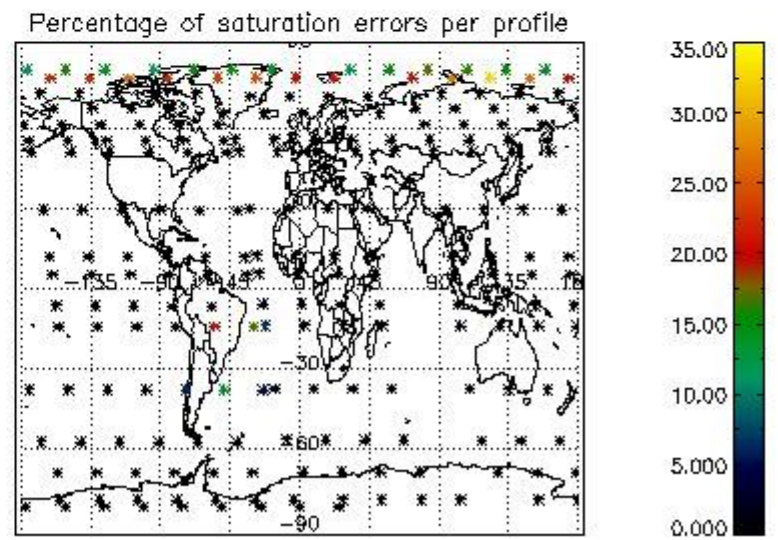
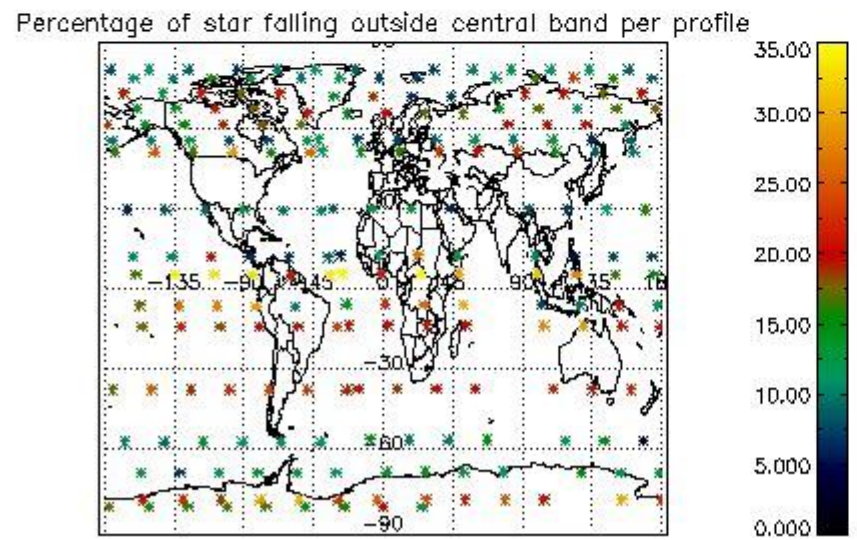
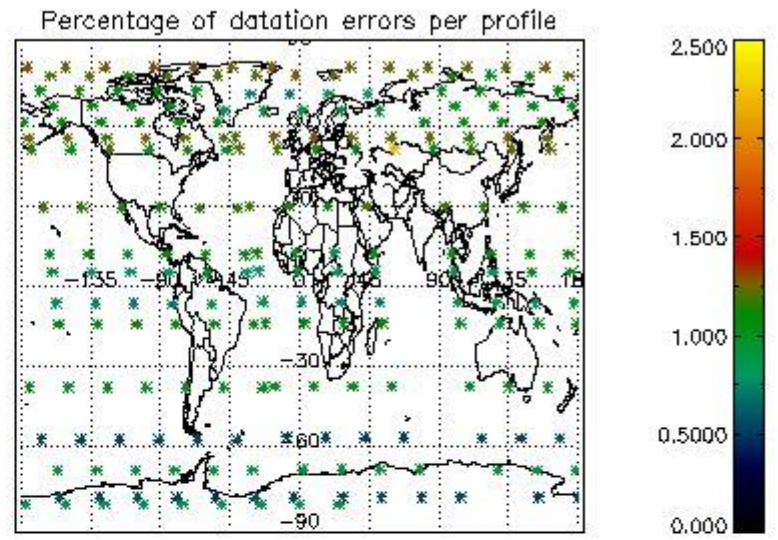
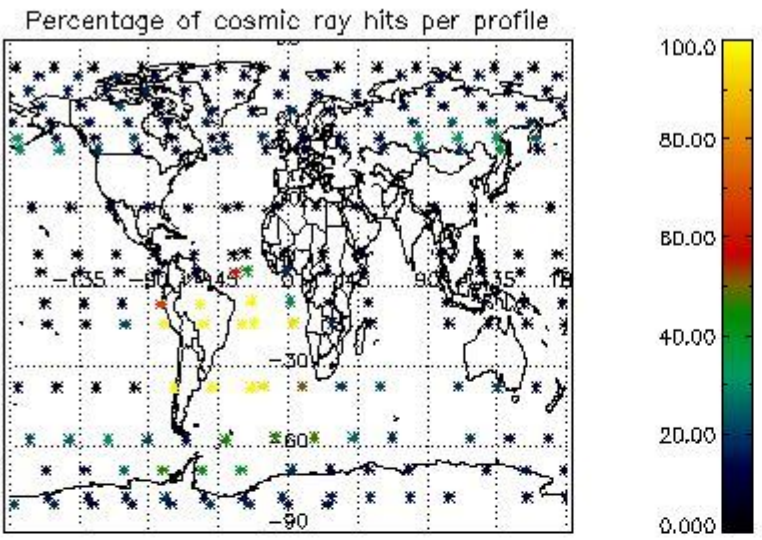


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

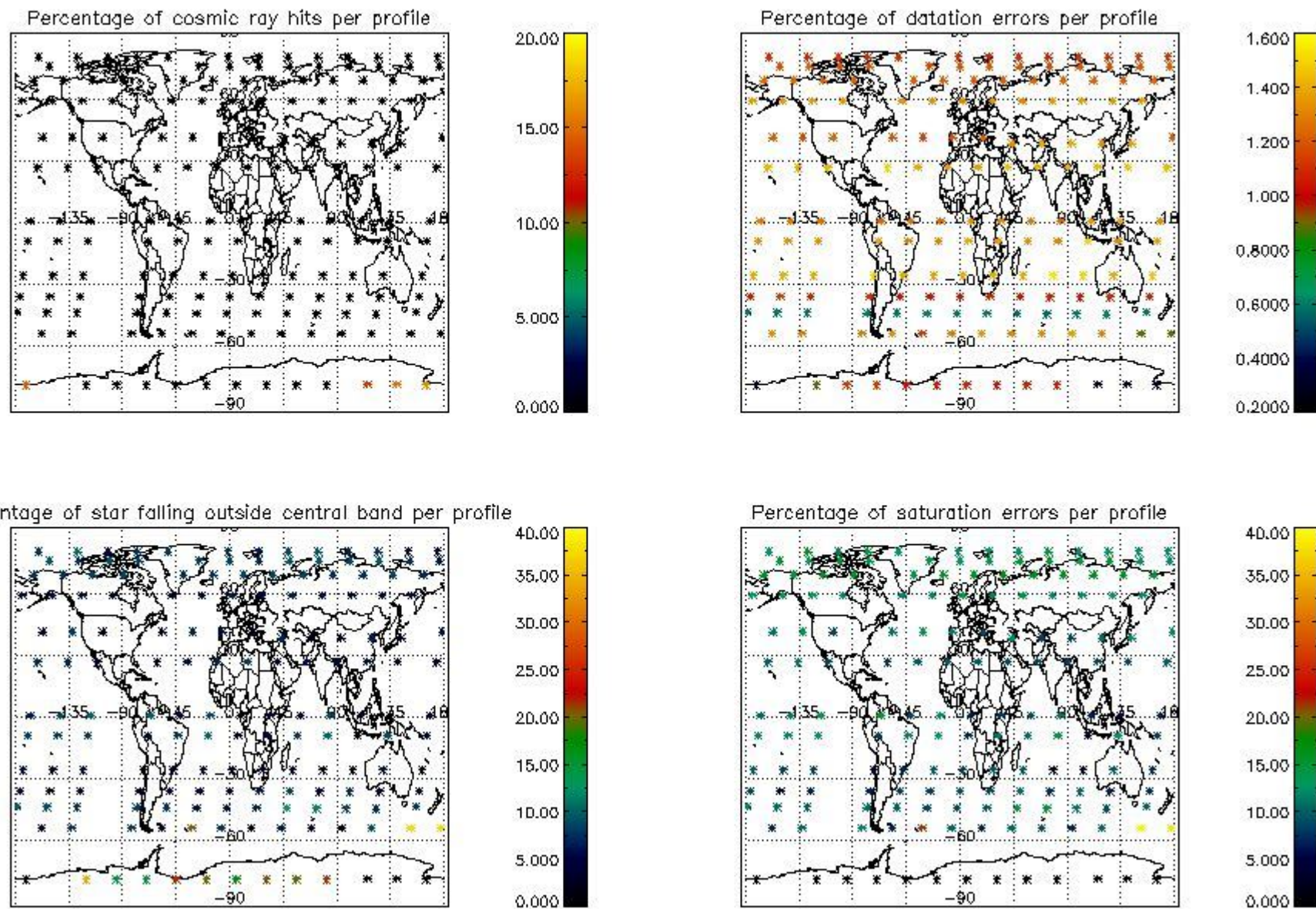


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

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

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

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

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

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

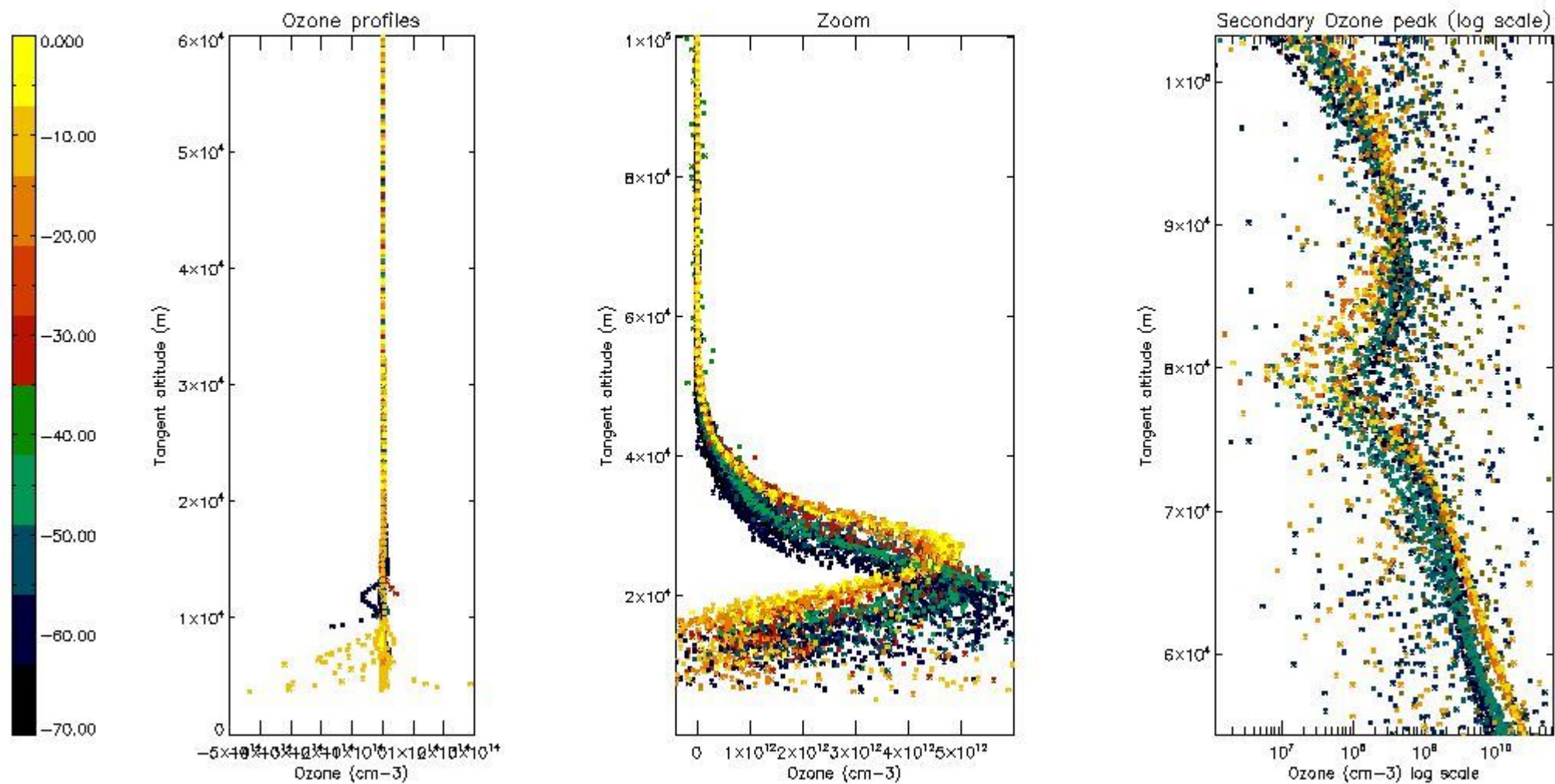
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	35
STD < 20	18

STD < 10	14
STD < 5	10

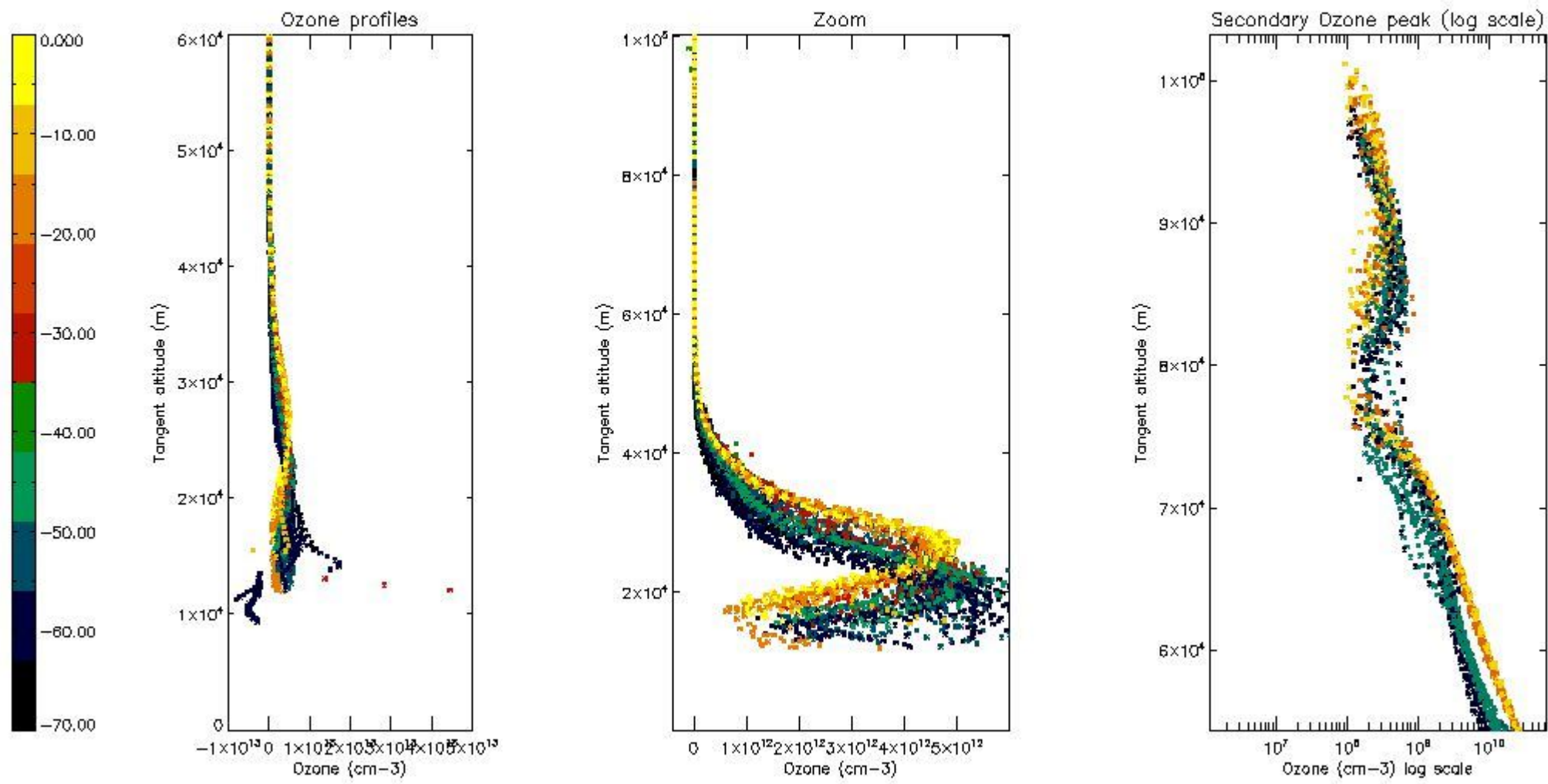
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

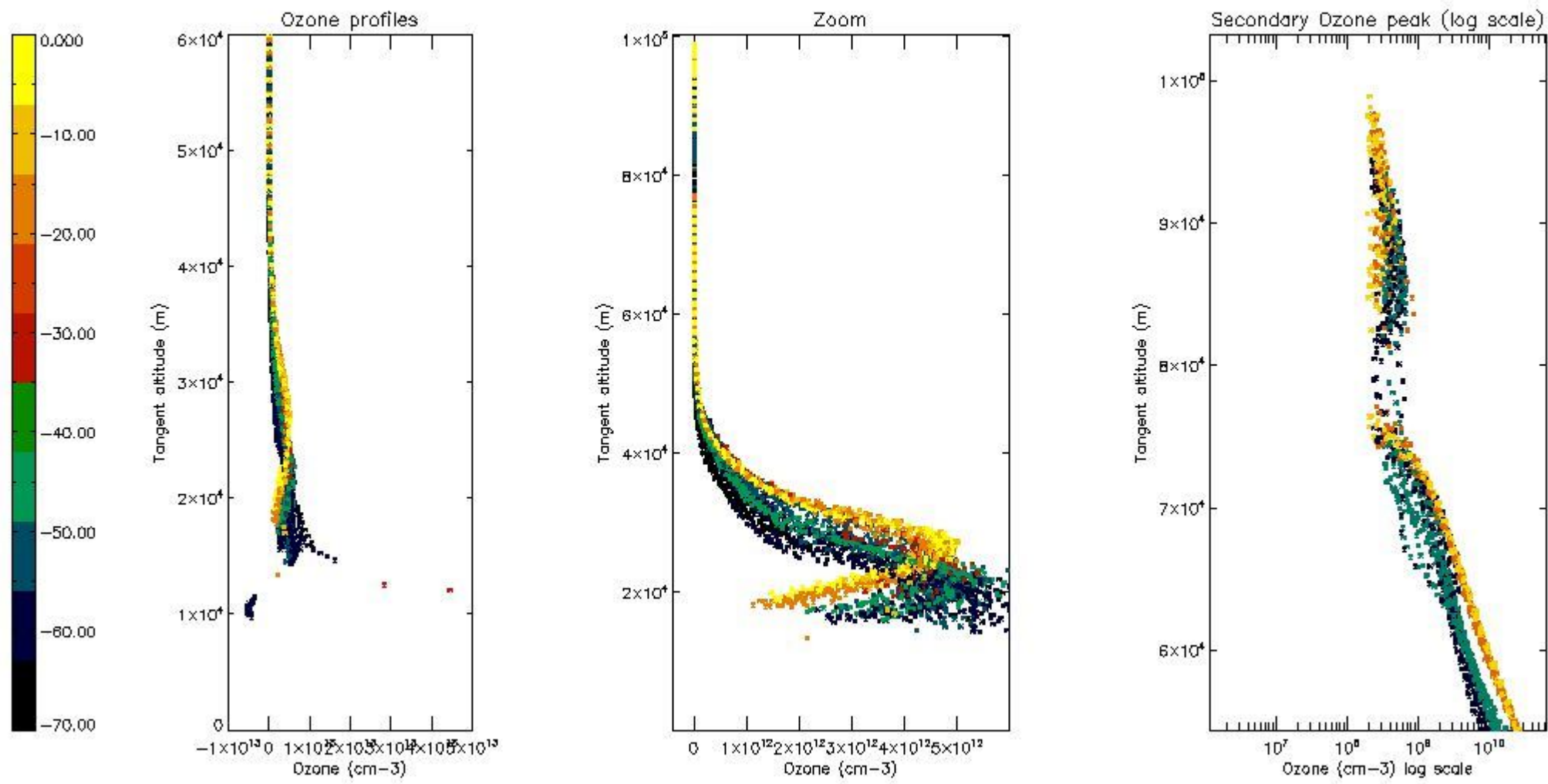
The colorbar represents the latitude.



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

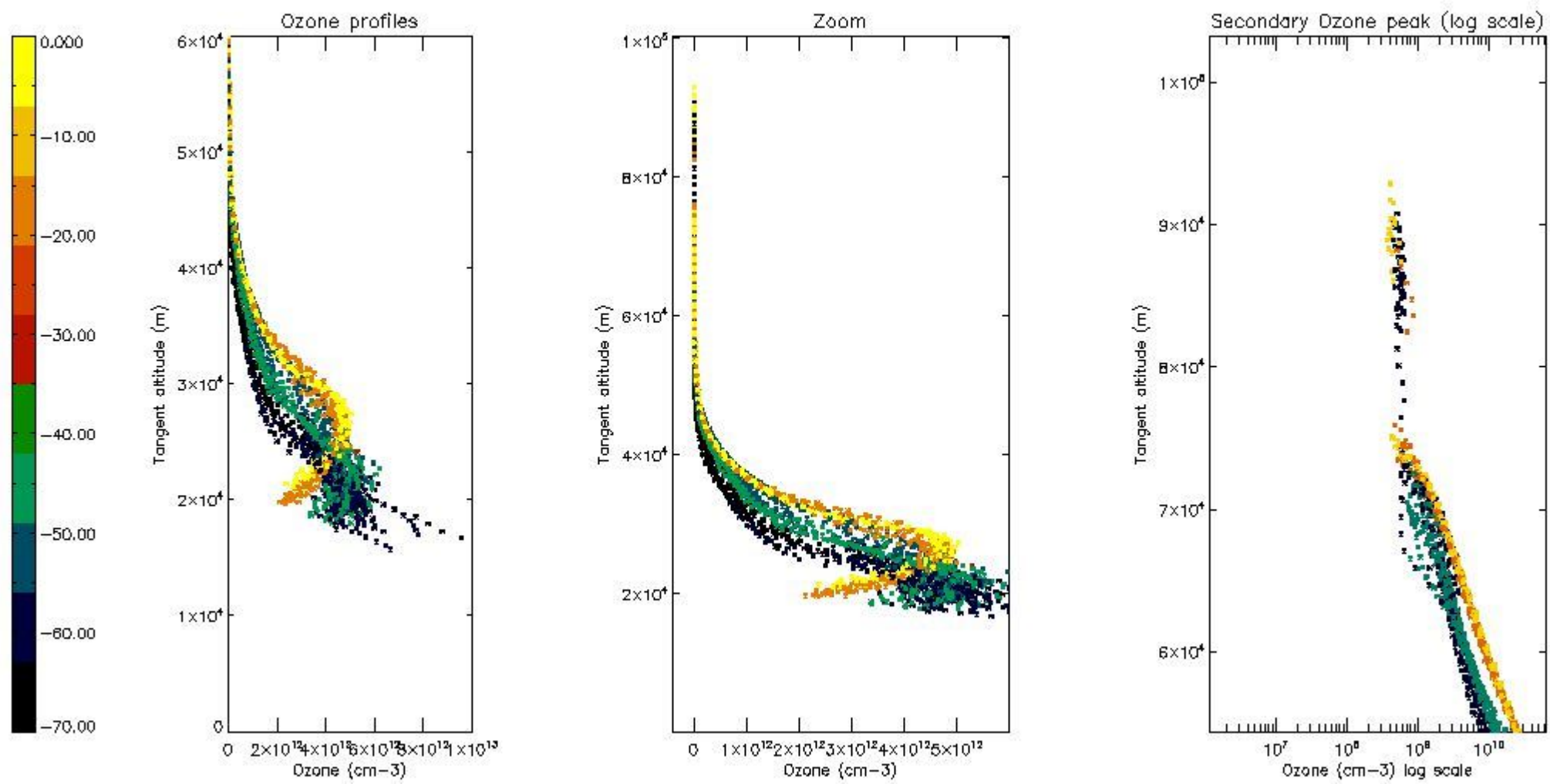
The colorbar represents the latitude.





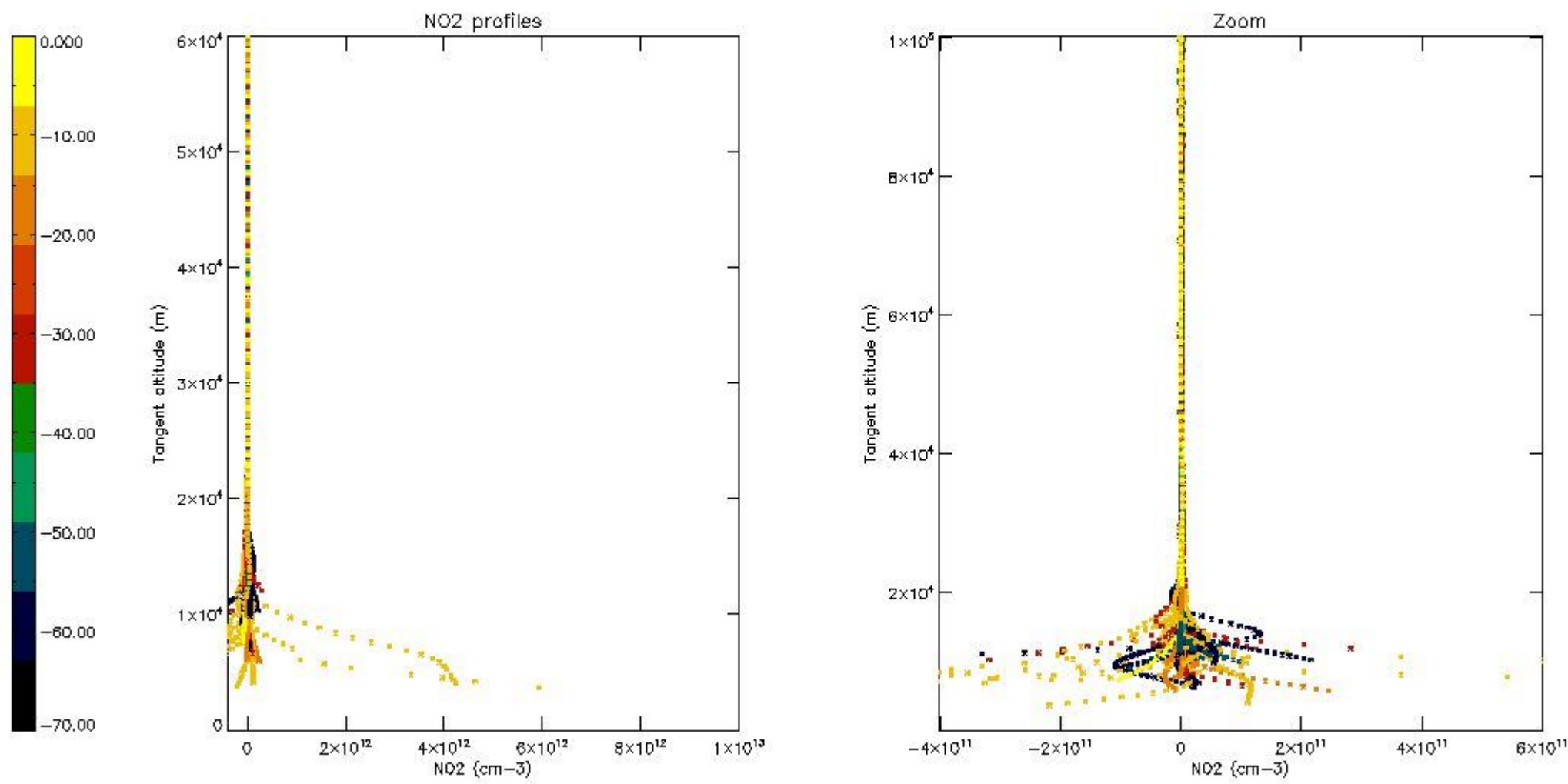
*5.5 Plot ozone profiles where  $STD < 5\%$  (dark without errors)*

The colorbar represents the latitude.



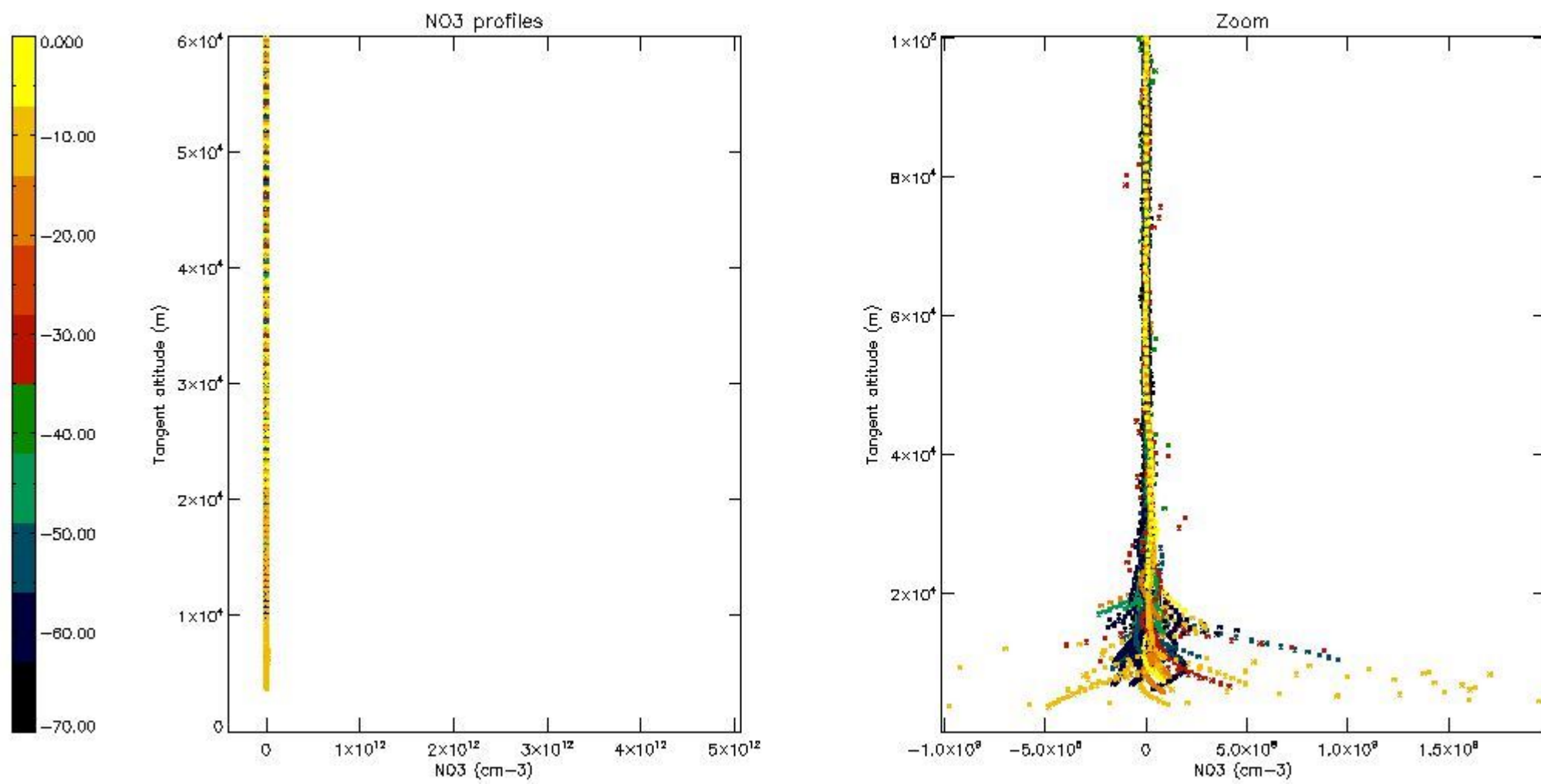
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



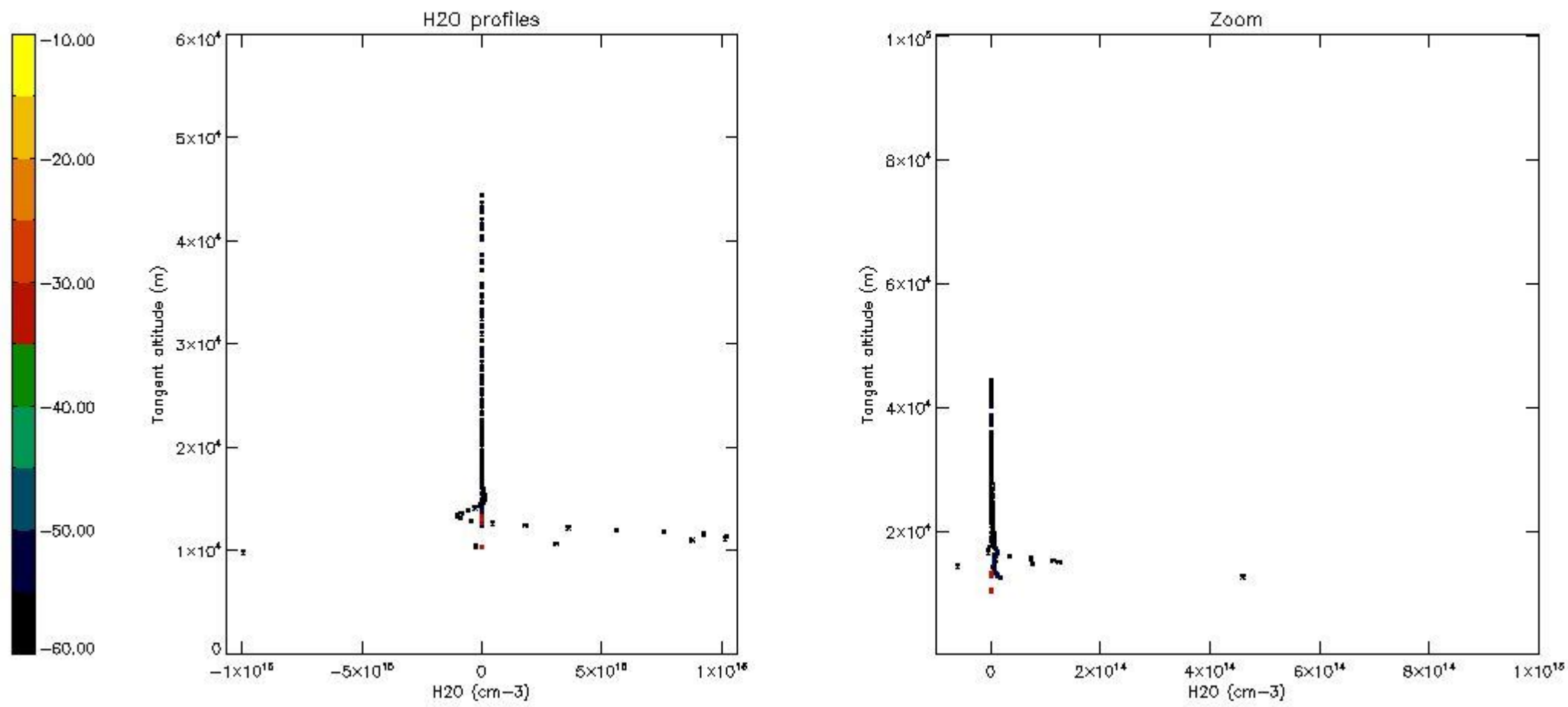
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot 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_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	02-JUN-2003 00:01:05
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-JUN-2003 00:01:05
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-JUN-2003 00:01:05

# GOMOS Level 2 Daily Report

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### [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](#)













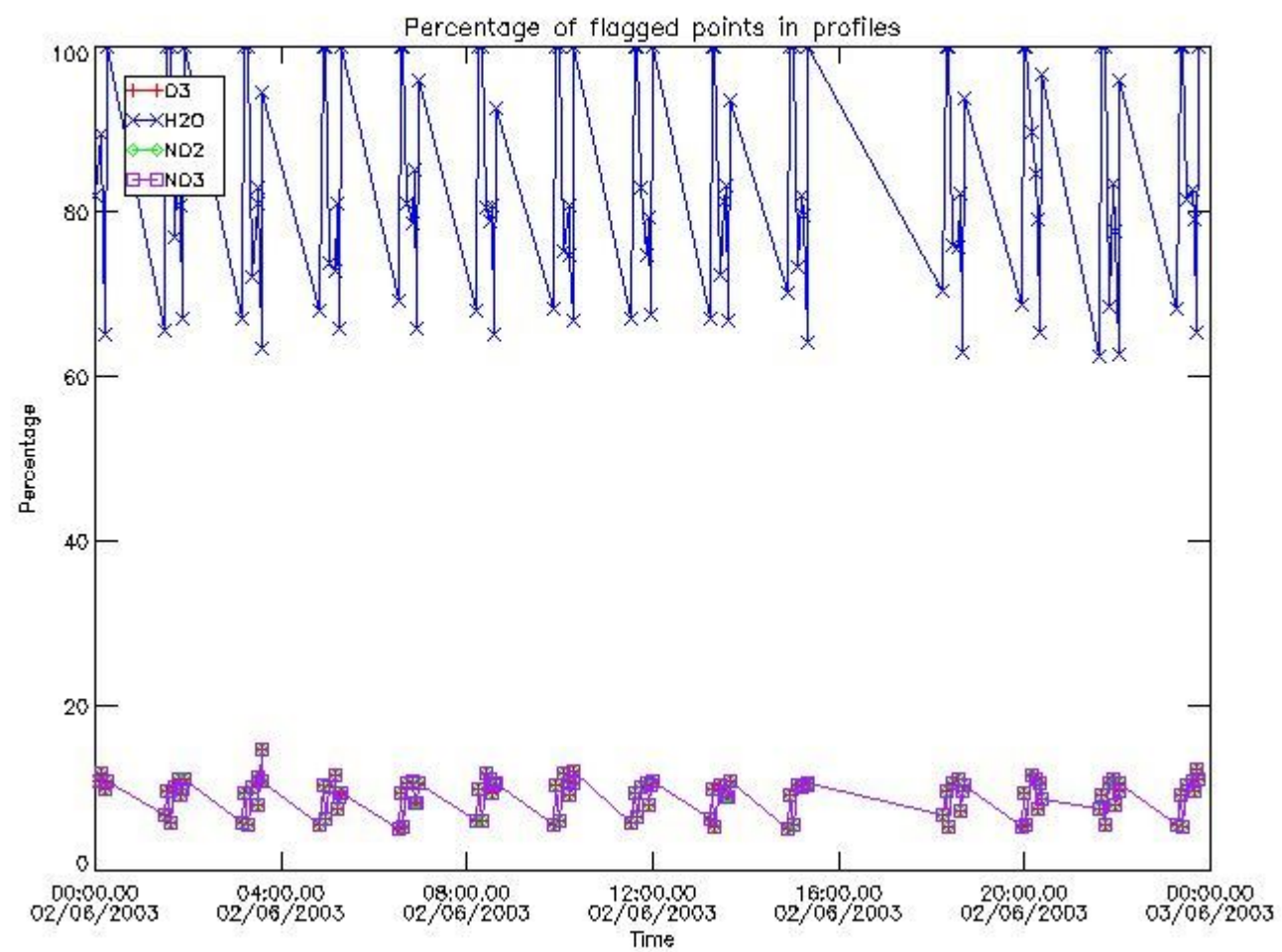




### 3. Quality information per product

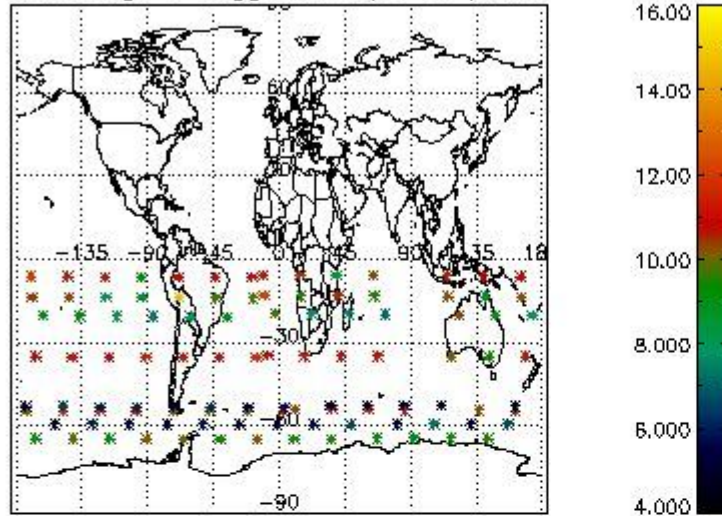
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

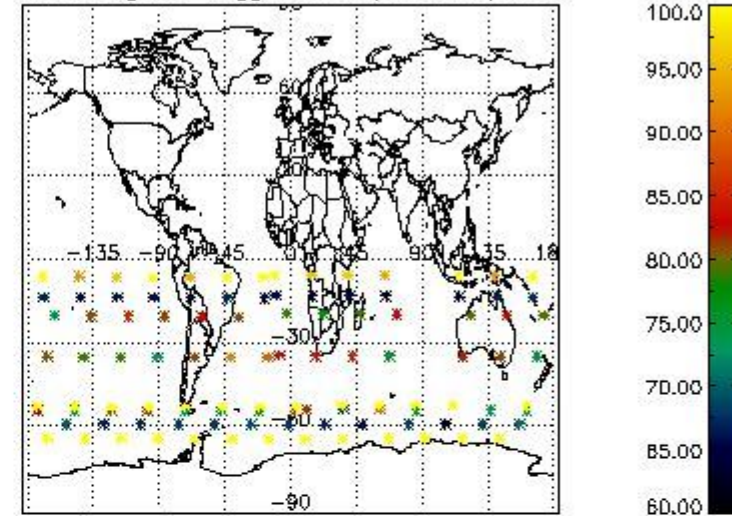


#### 3.2 Plot quality information per product (world map)

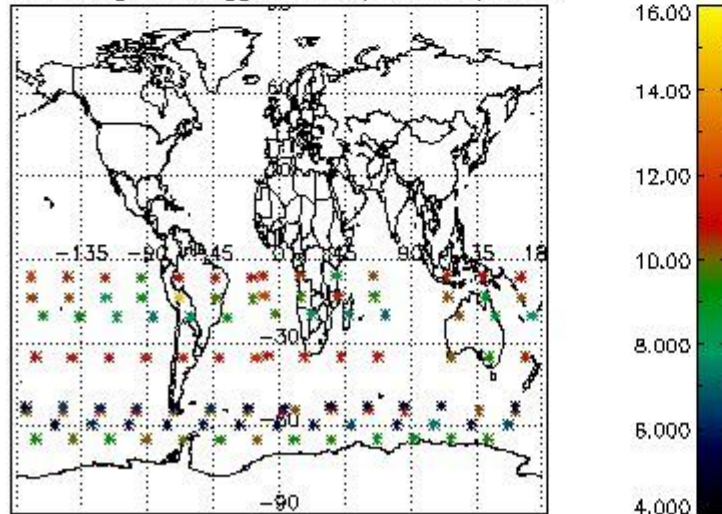
Percentage of flagged data per O3 profile



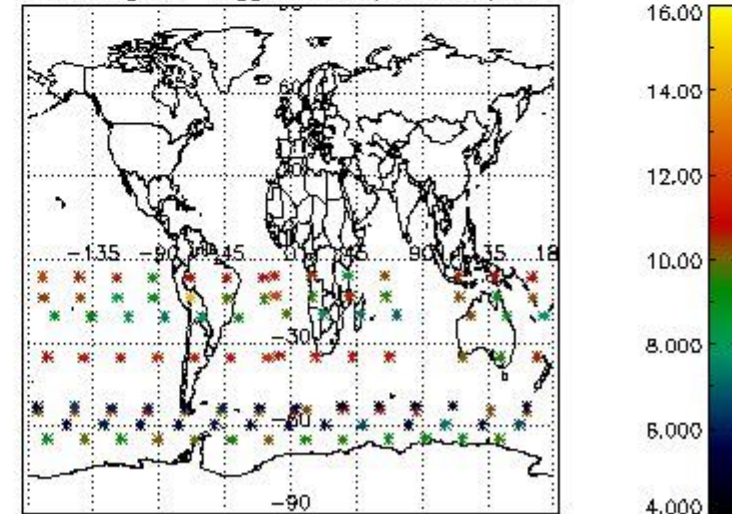
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

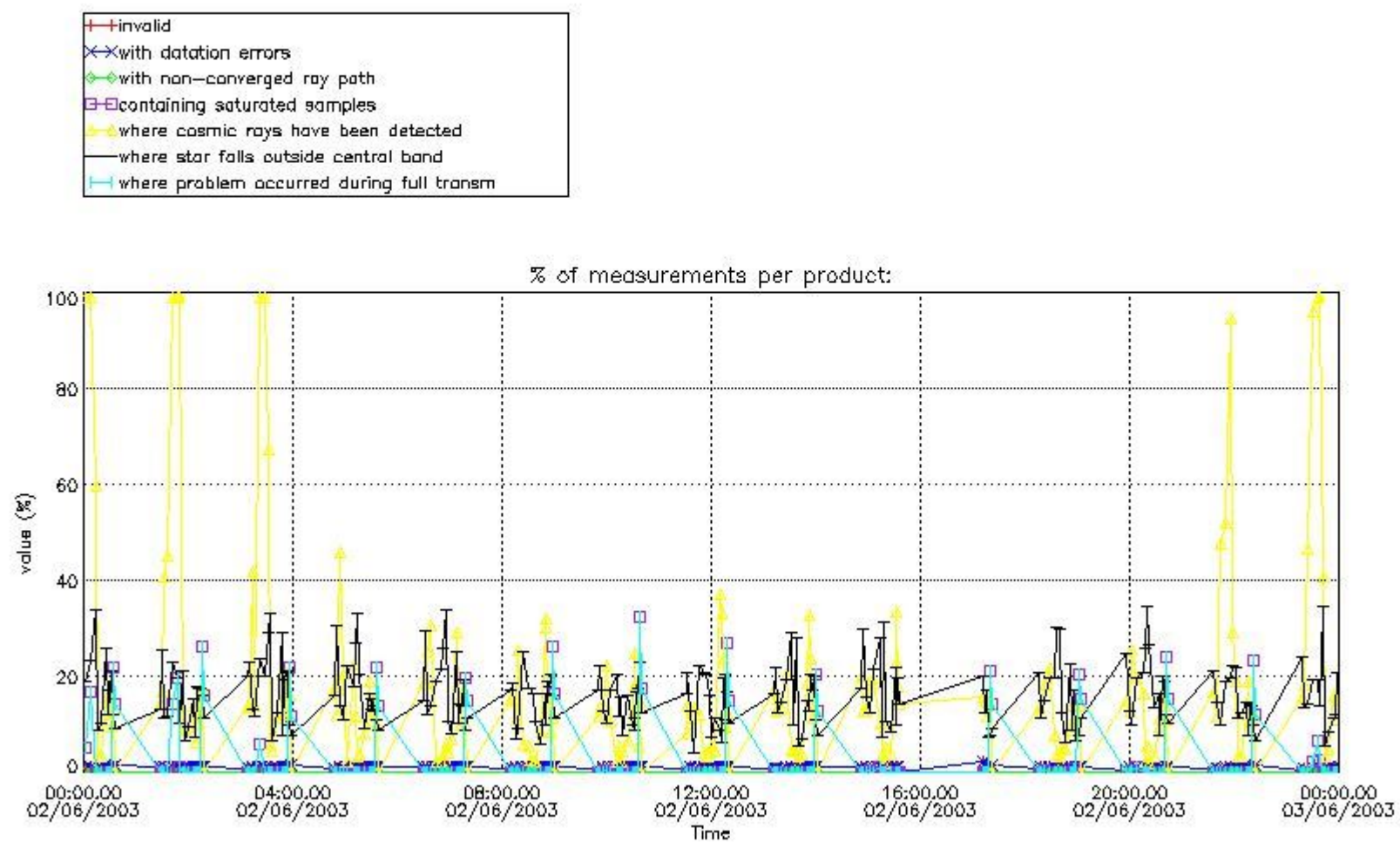


#### 4. Level 1 quality information per product

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.

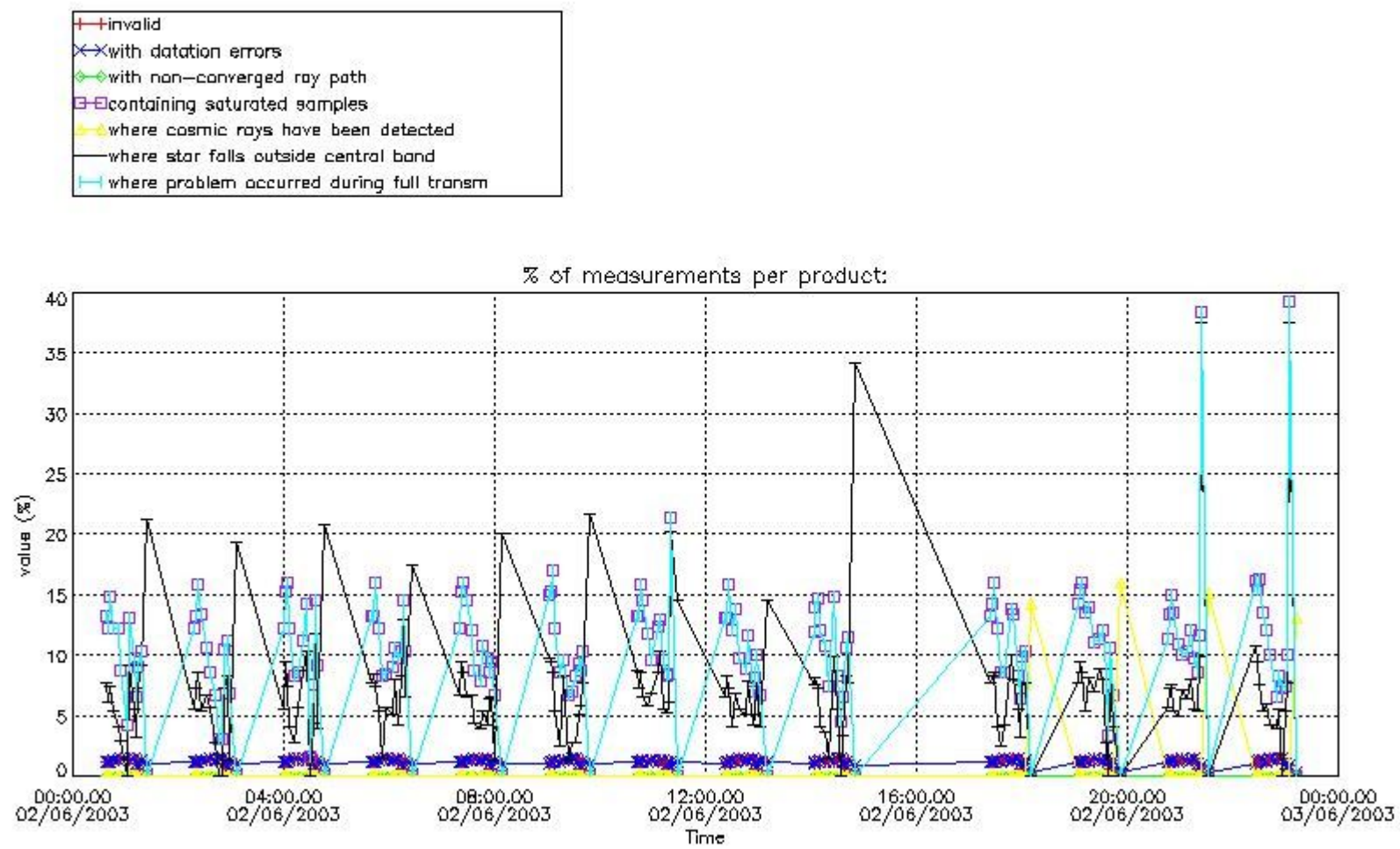
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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



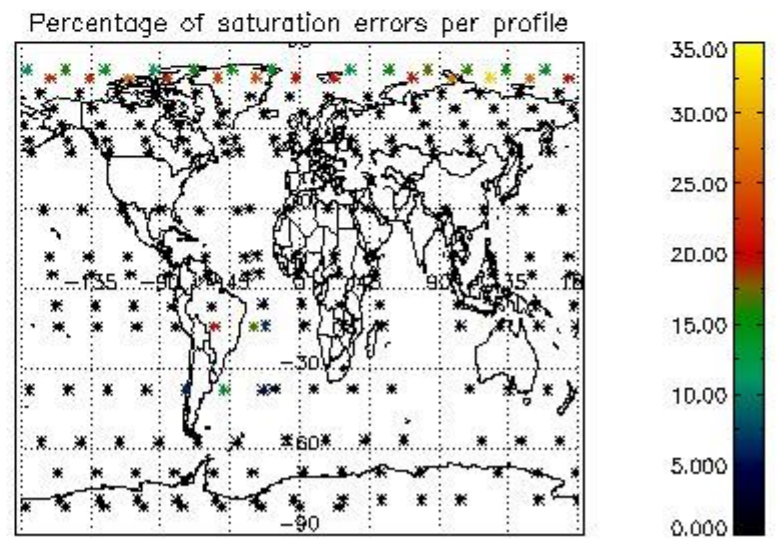
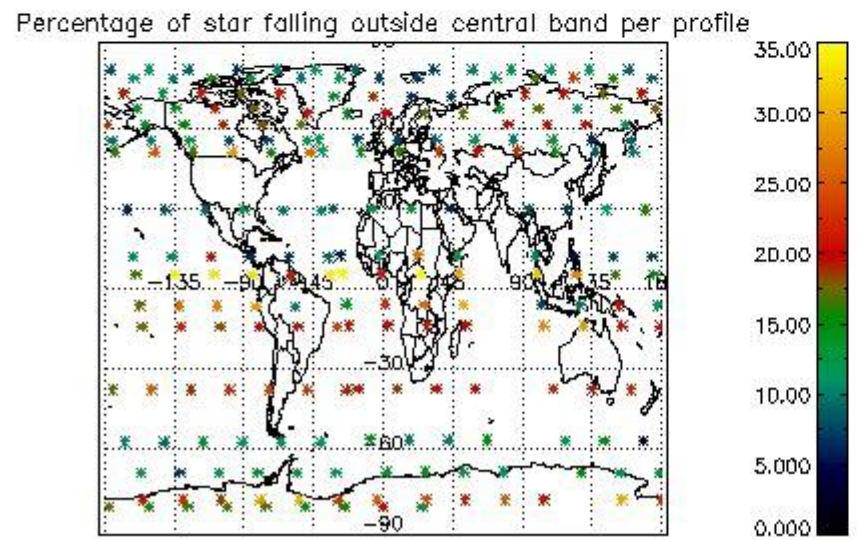
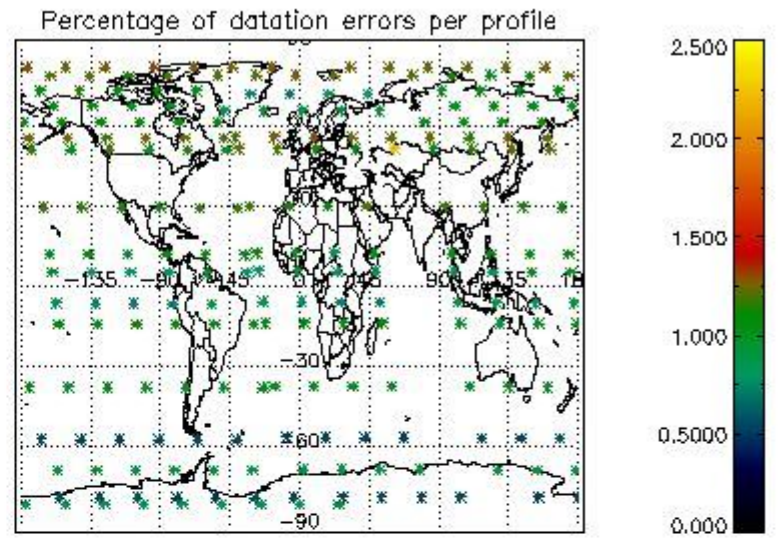
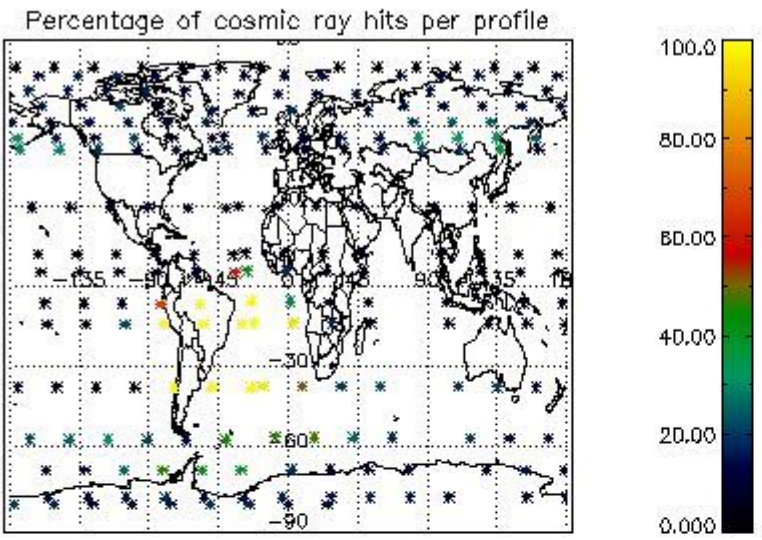
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



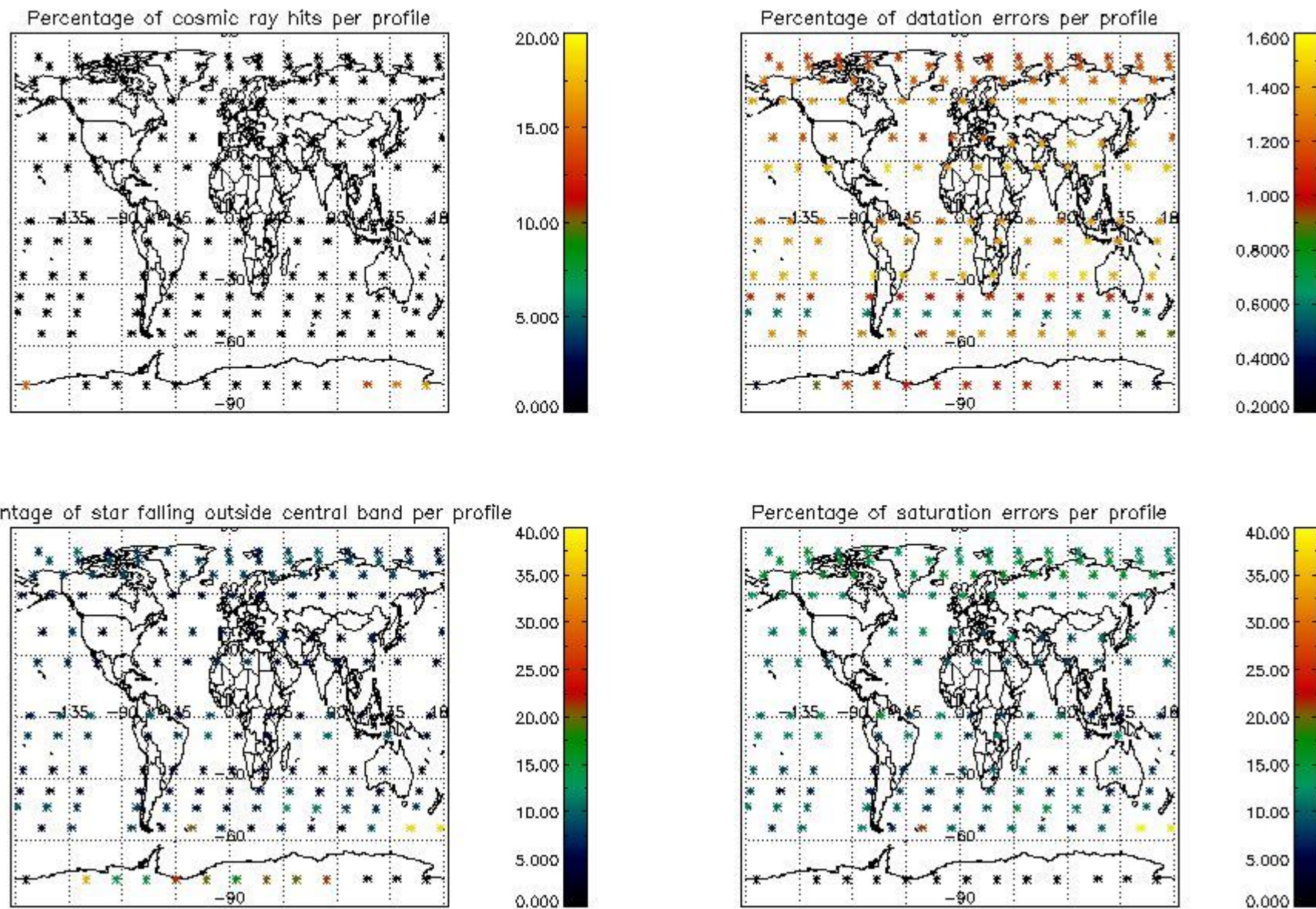


4.2 Plot quality information per product coming from level 1b processing (world map)

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

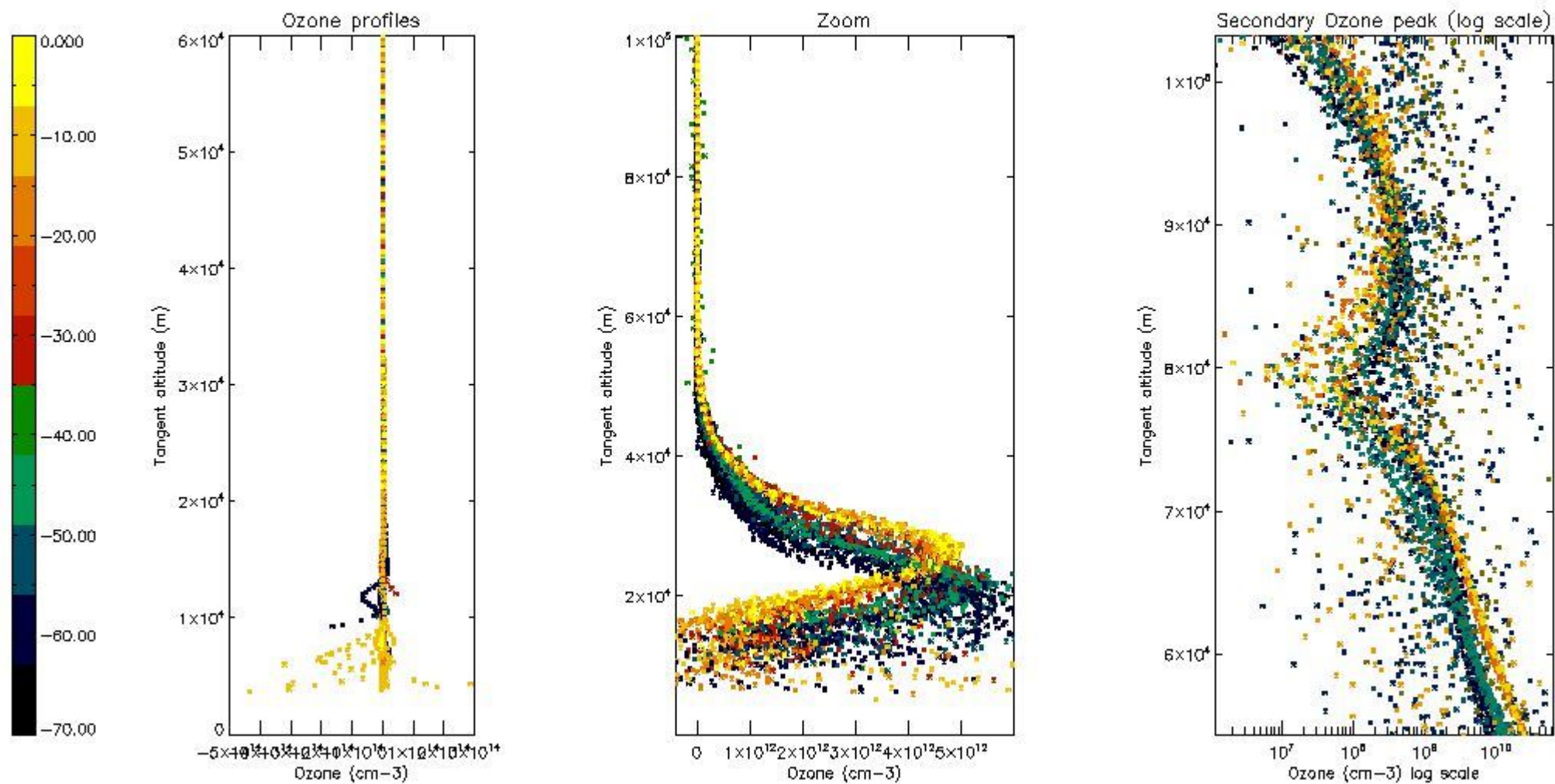
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	35
STD < 20	18

STD < 10	14
STD < 5	10

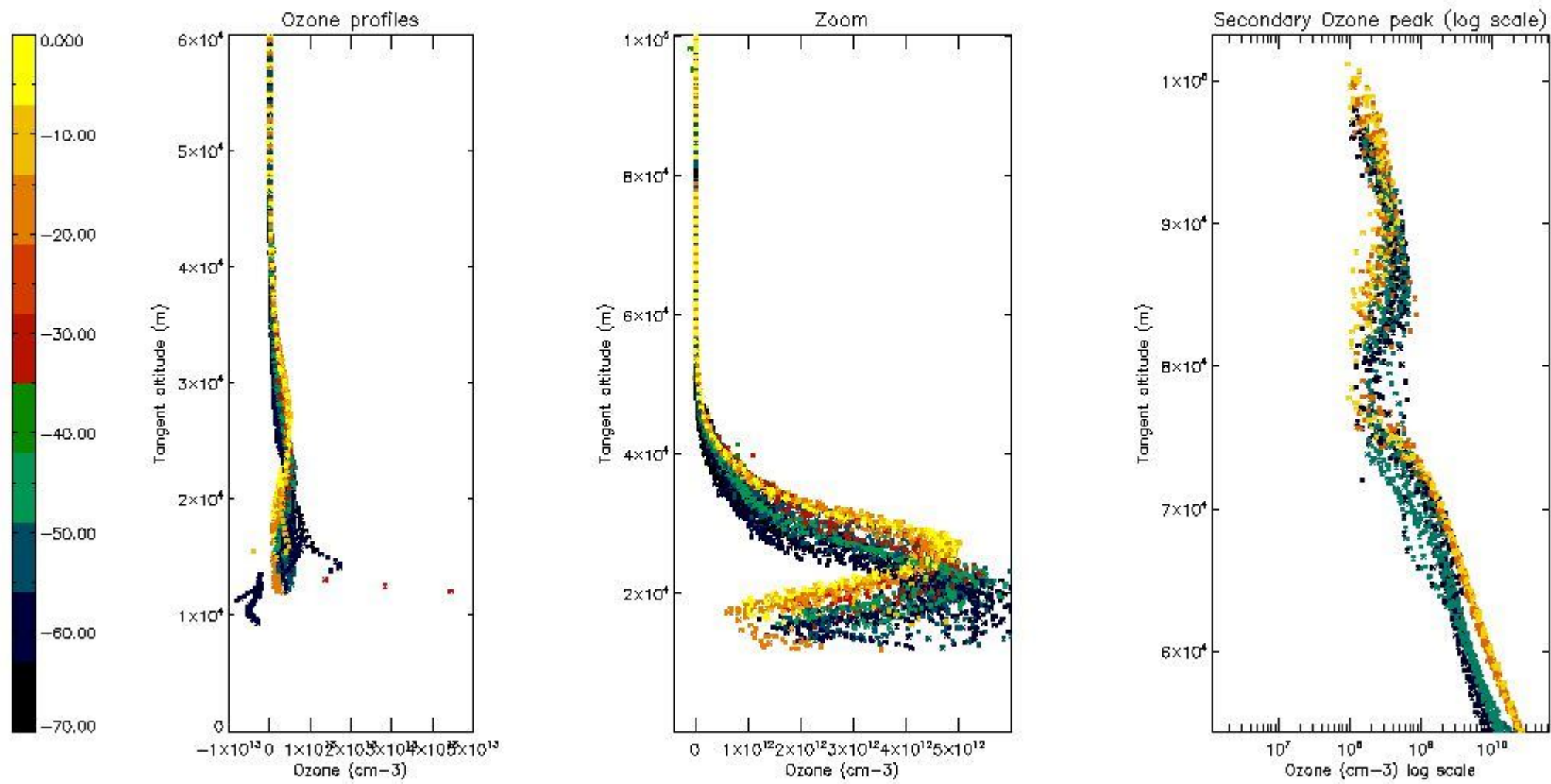
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



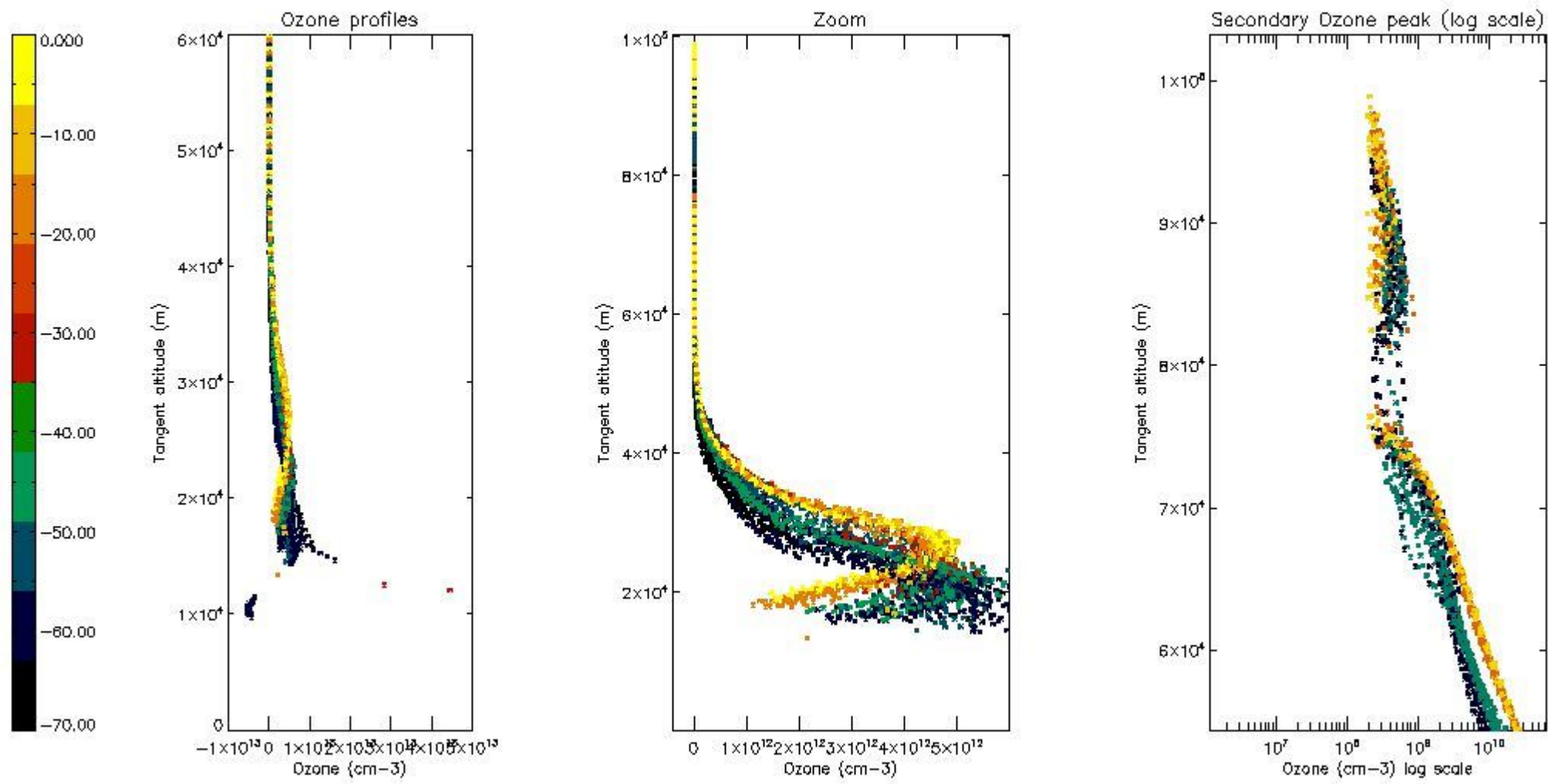
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



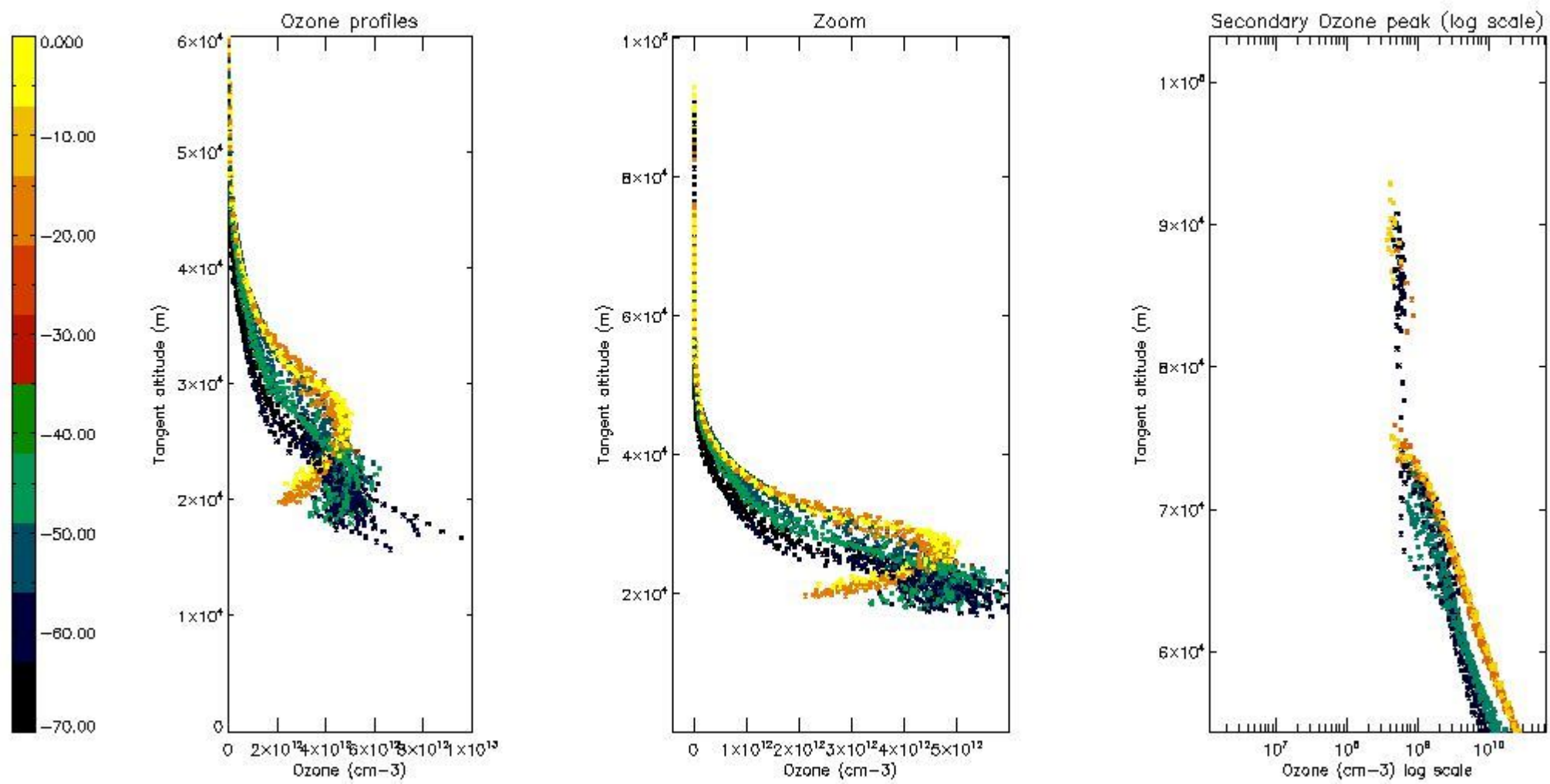
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



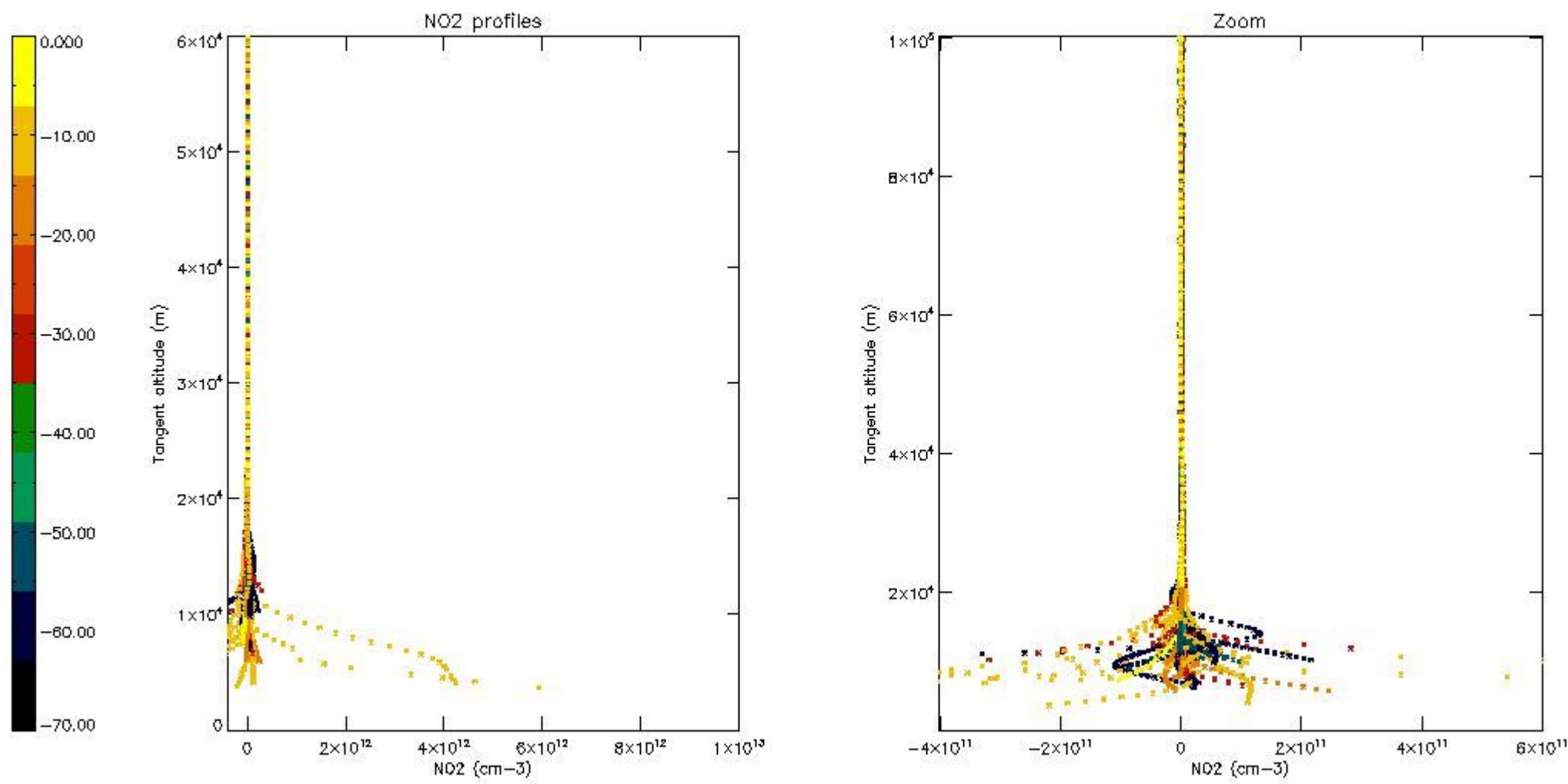
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



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

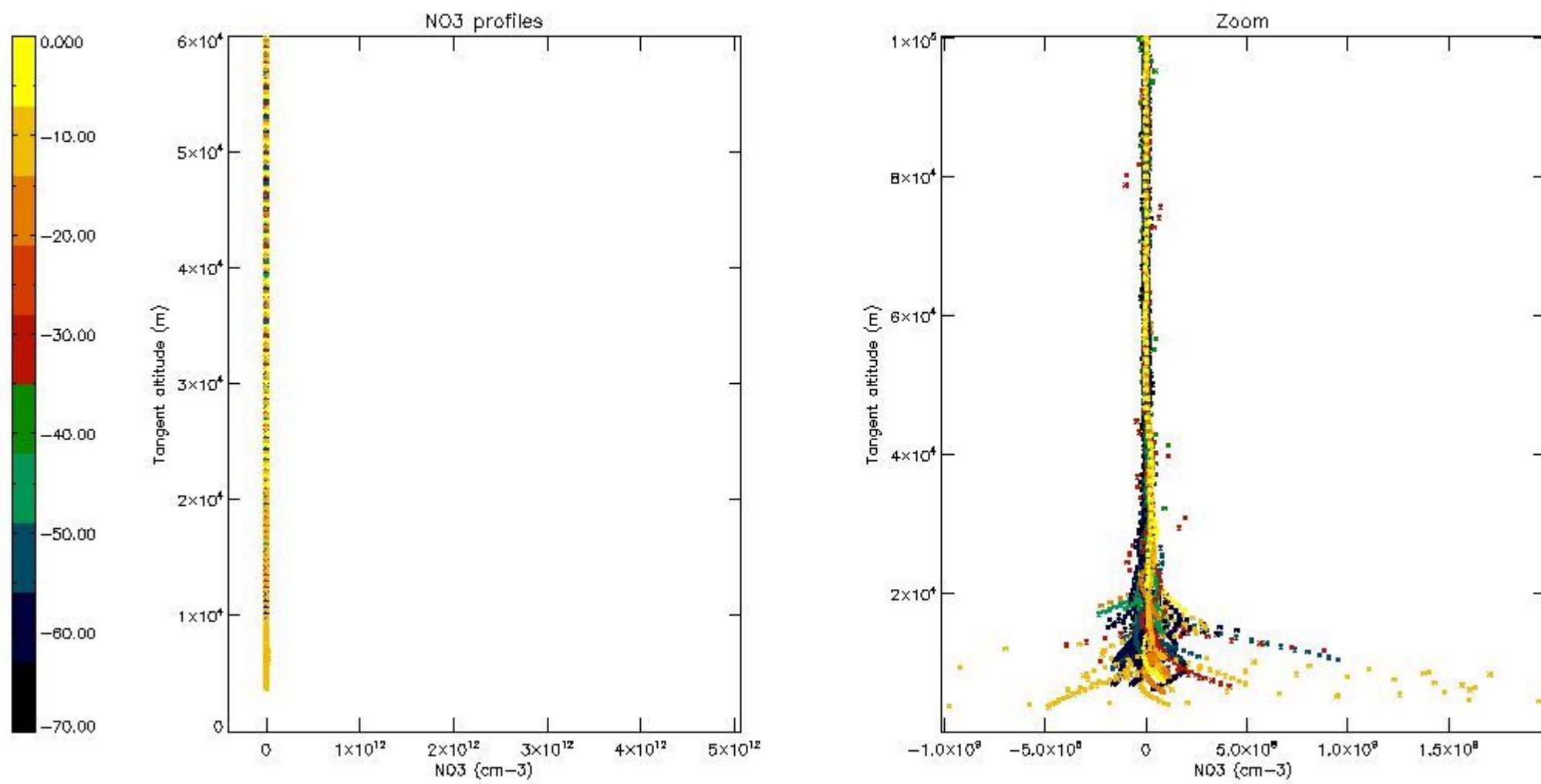
The colorbar represents the latitude.



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

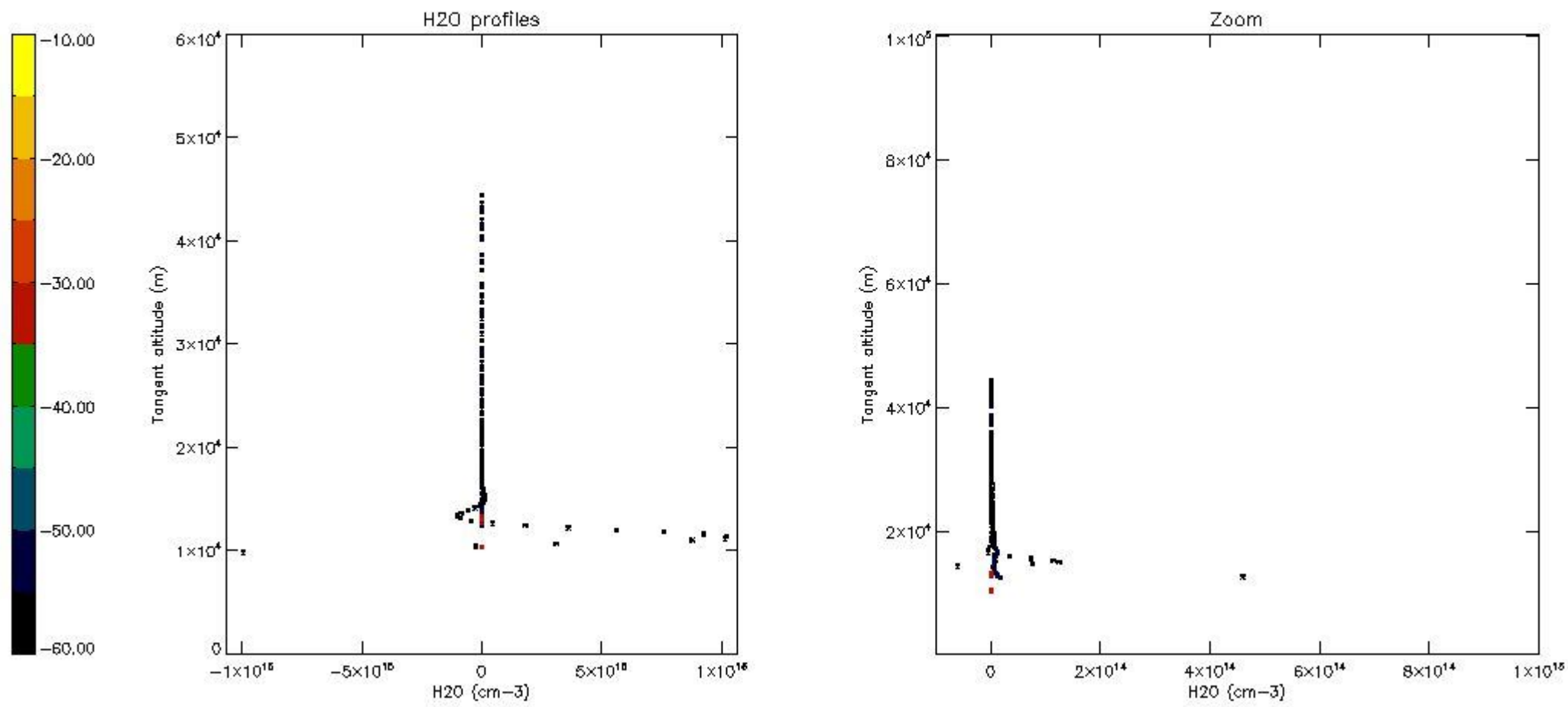
The colorbar represents the latitude.





*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)*

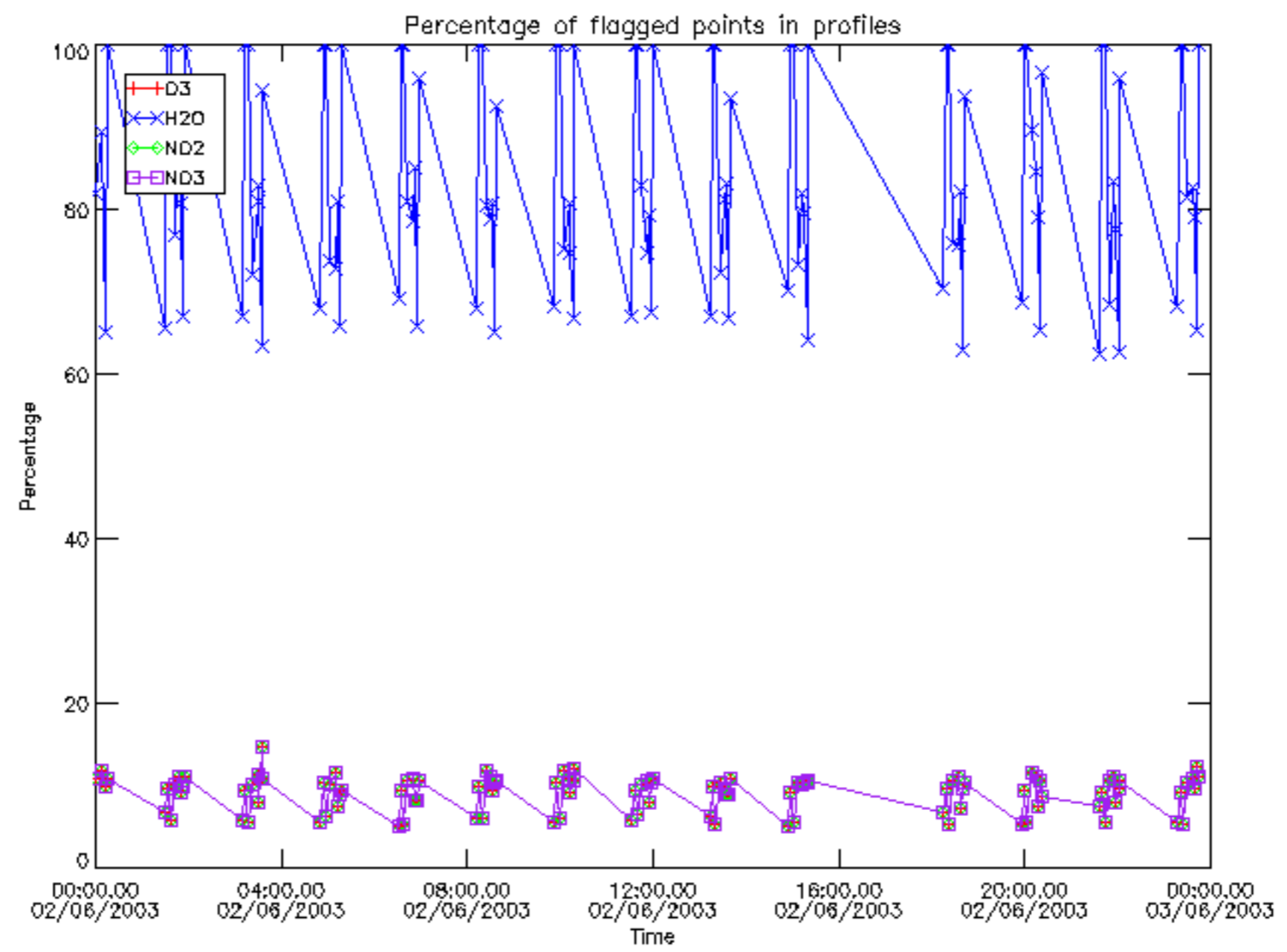
The colorbar represents the latitude.



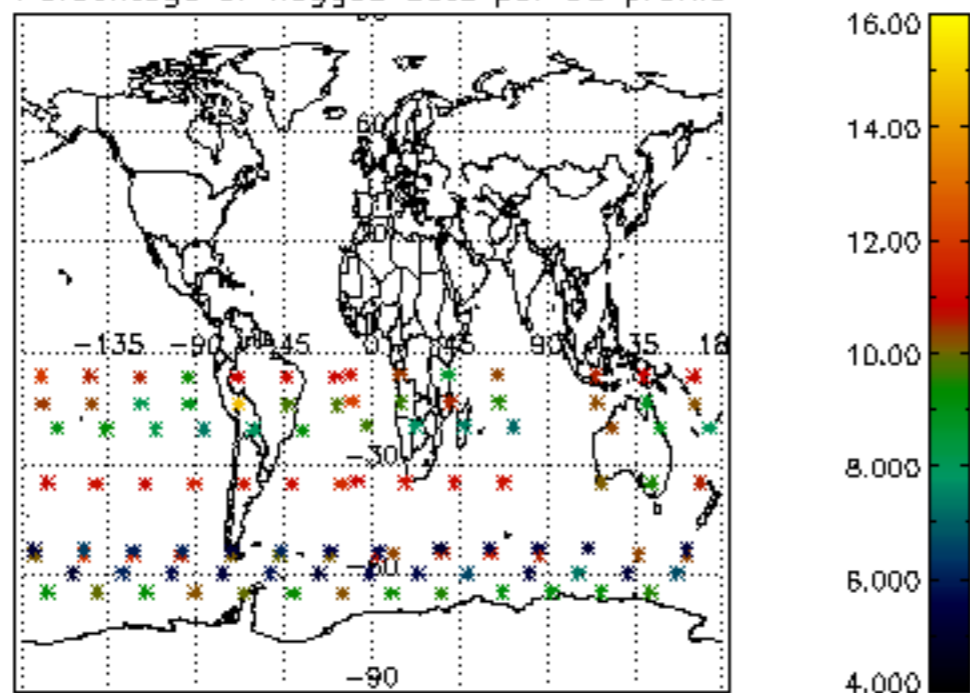
## 6. Auxiliary Data Files used for the production reported in section 2

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.

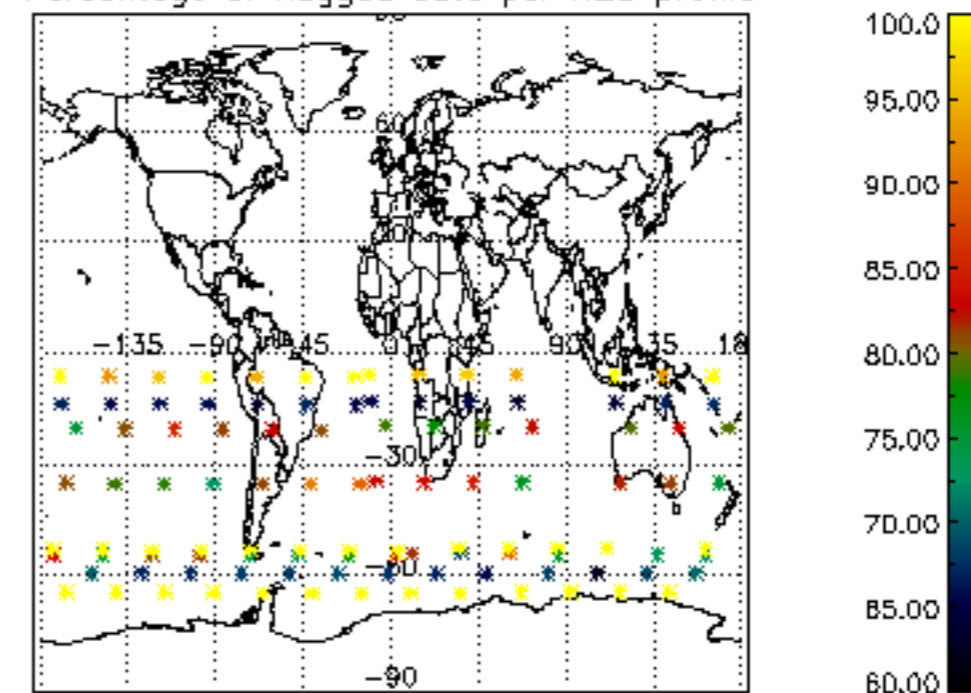
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	02-JUN-2003 00:01:05
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-JUN-2003 00:01:05
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-JUN-2003 00:01:05



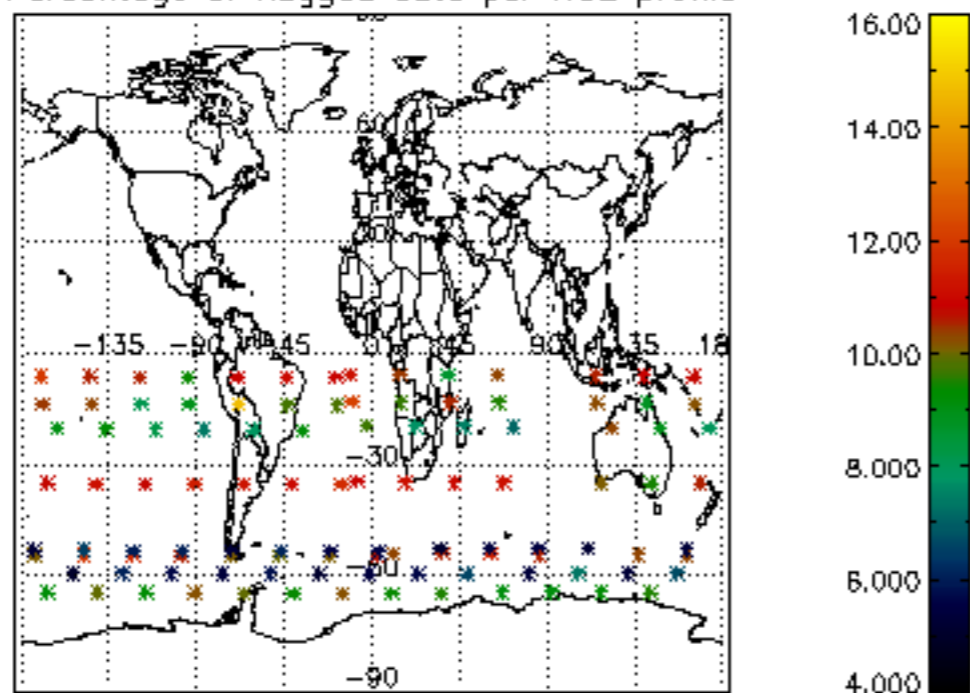
Percentage of flagged data per D3 profile



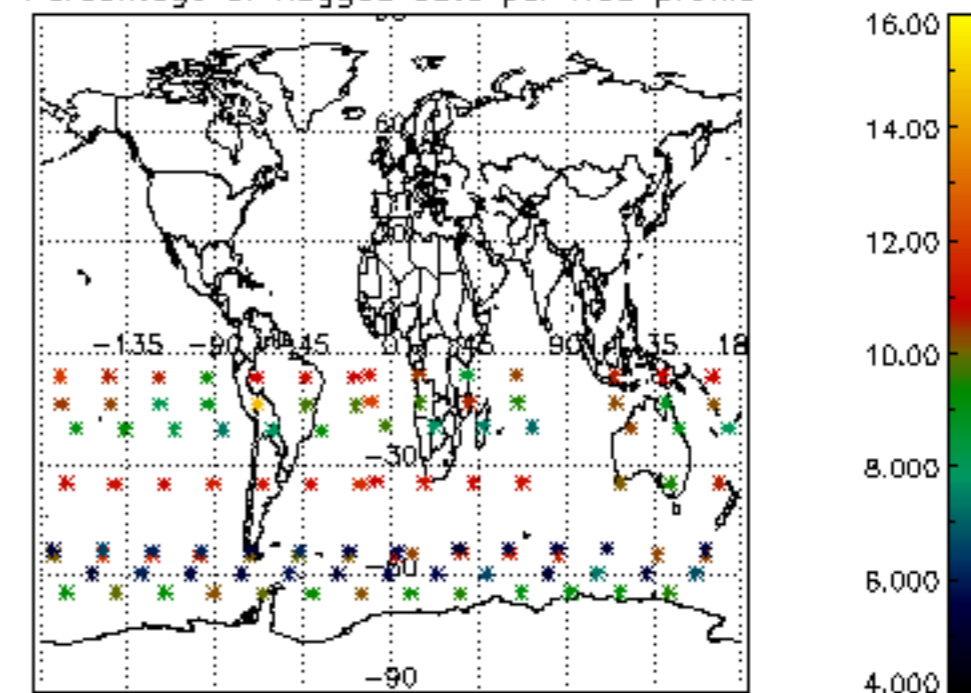
Percentage of flagged data per H2O profile

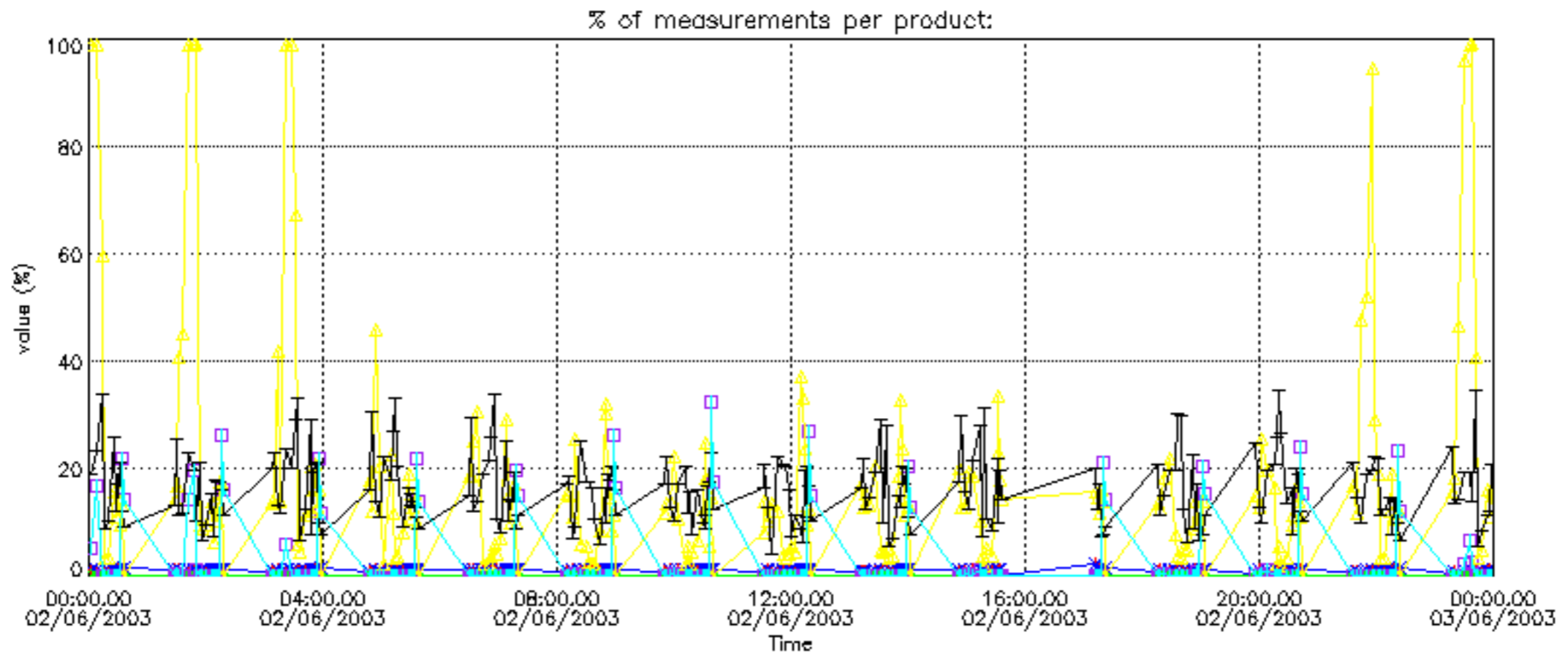


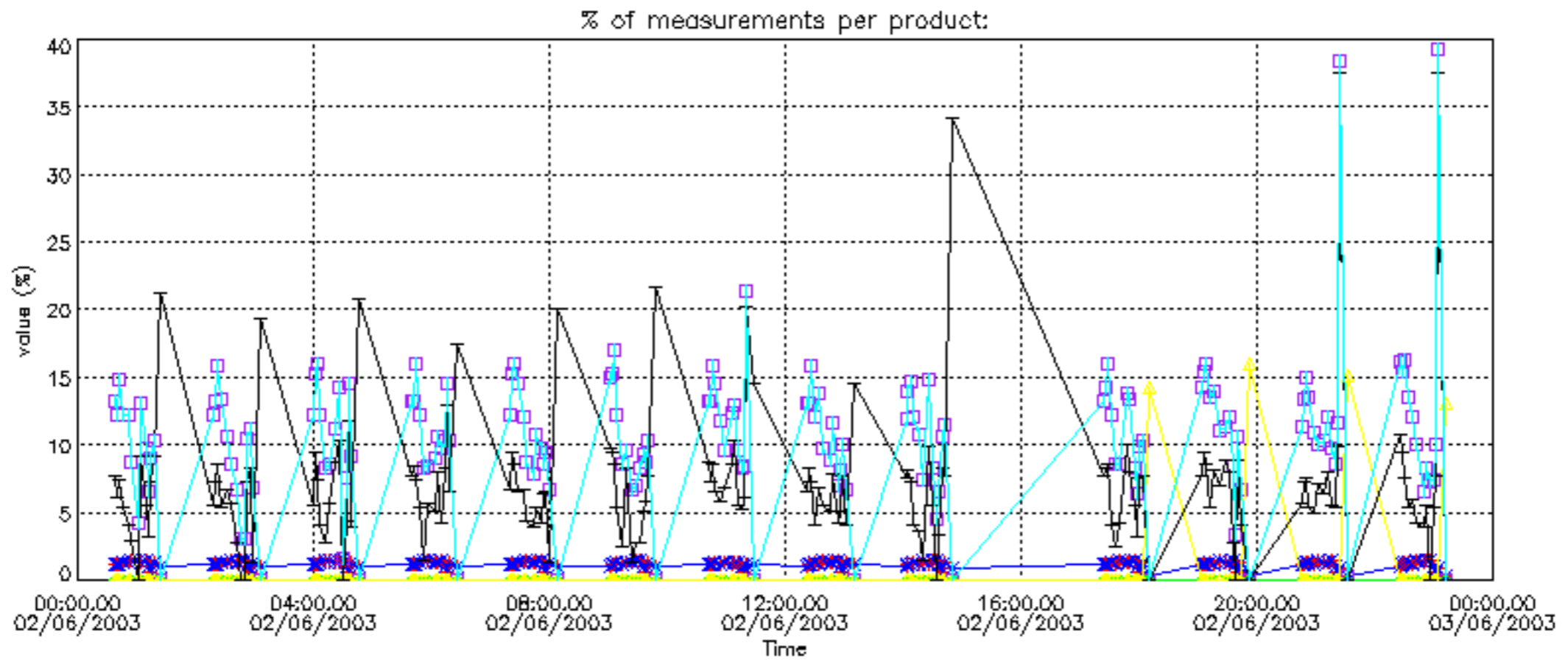
Percentage of flagged data per NO2 profile



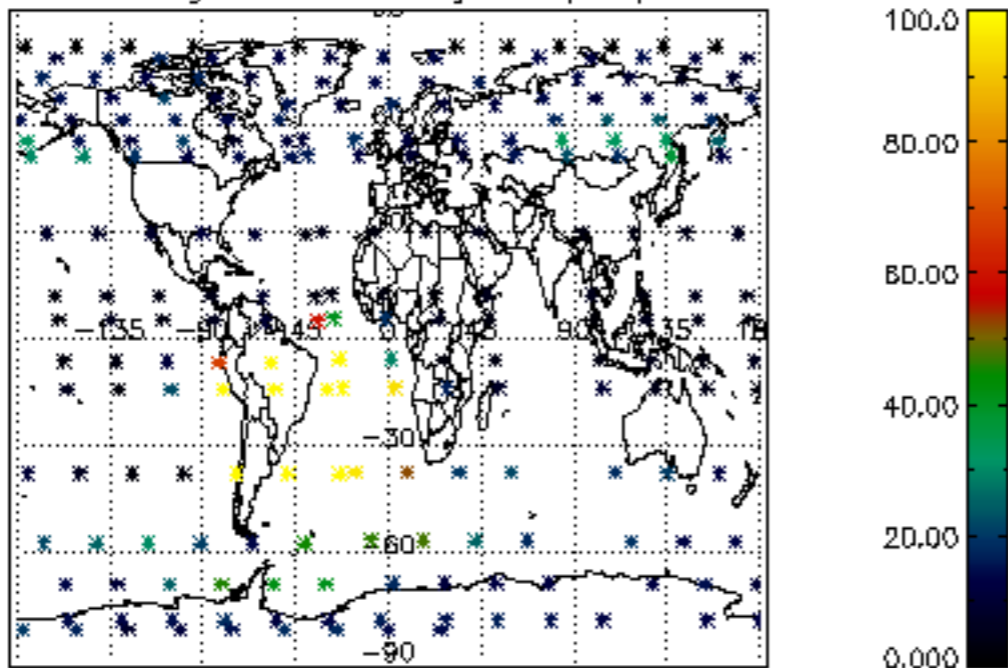
Percentage of flagged data per NO3 profile



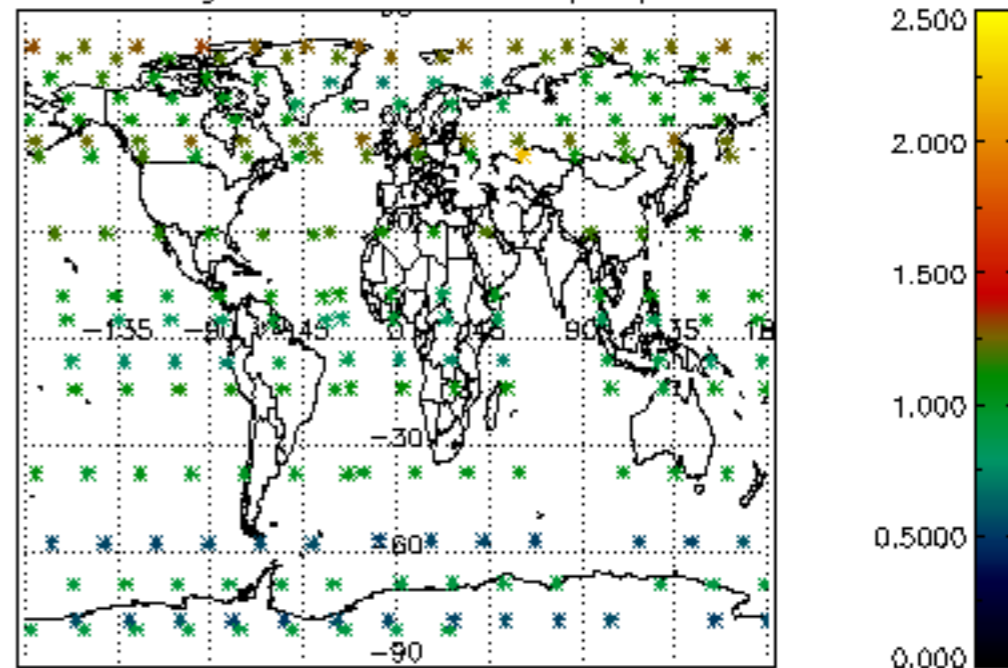




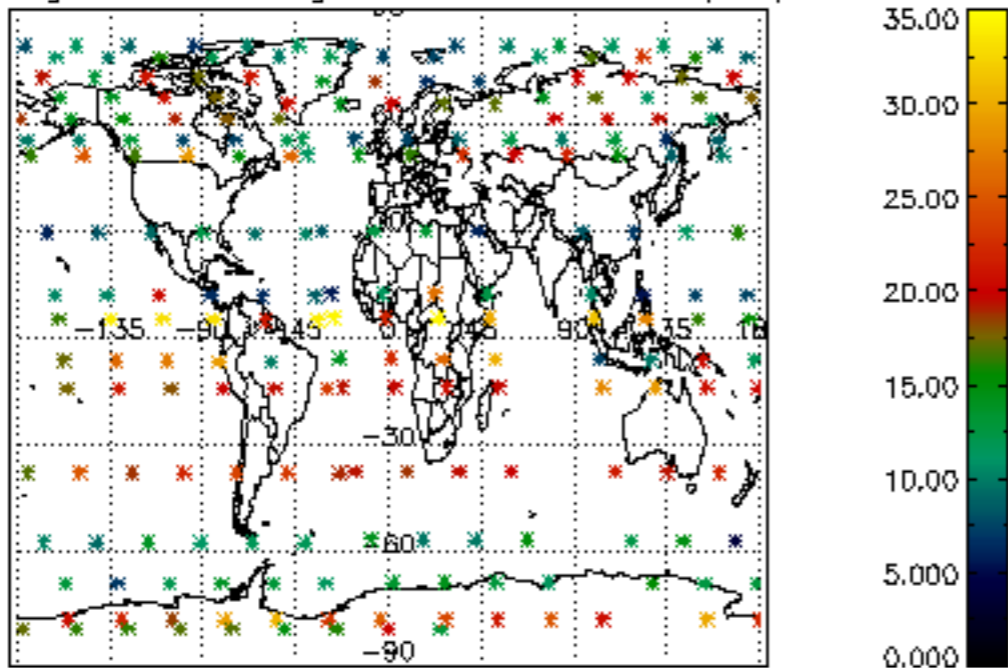
Percentage of cosmic ray hits per profile



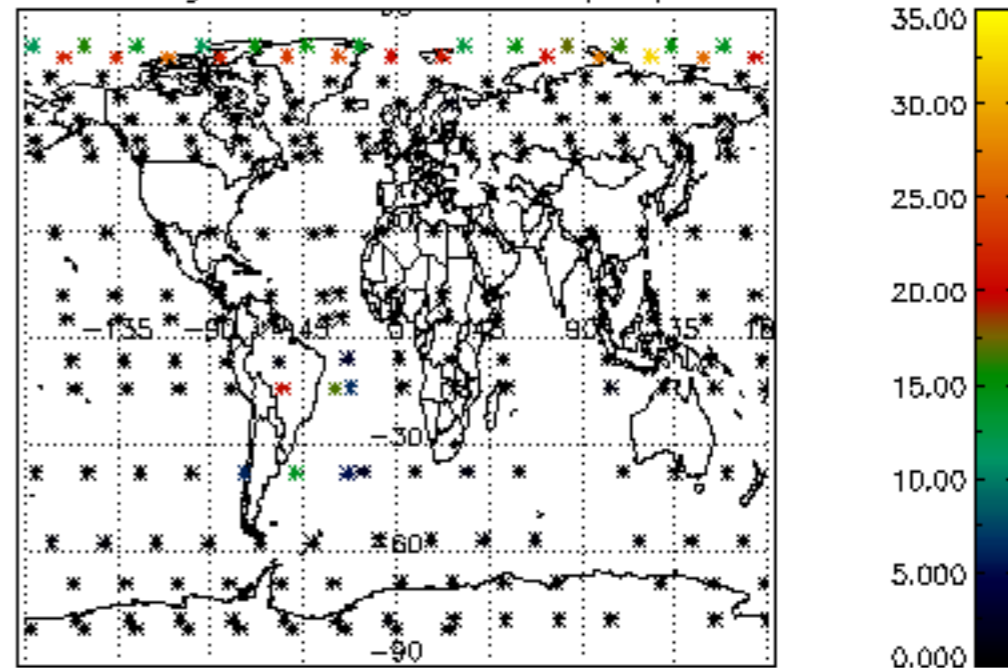
Percentage of datation errors per profile



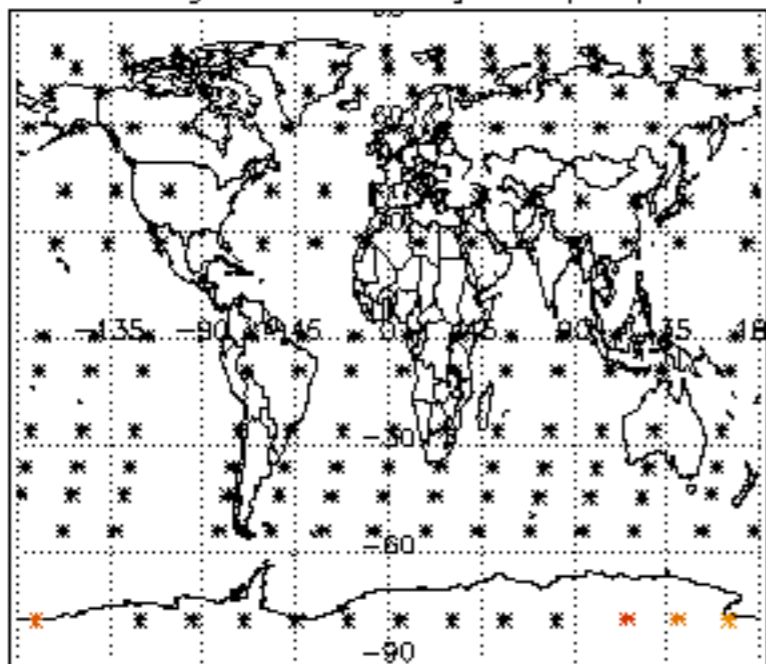
Percentage of star falling outside central band per profile



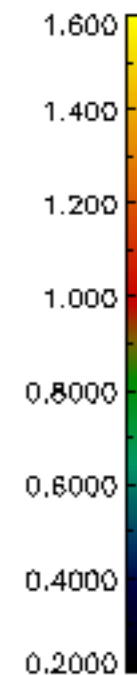
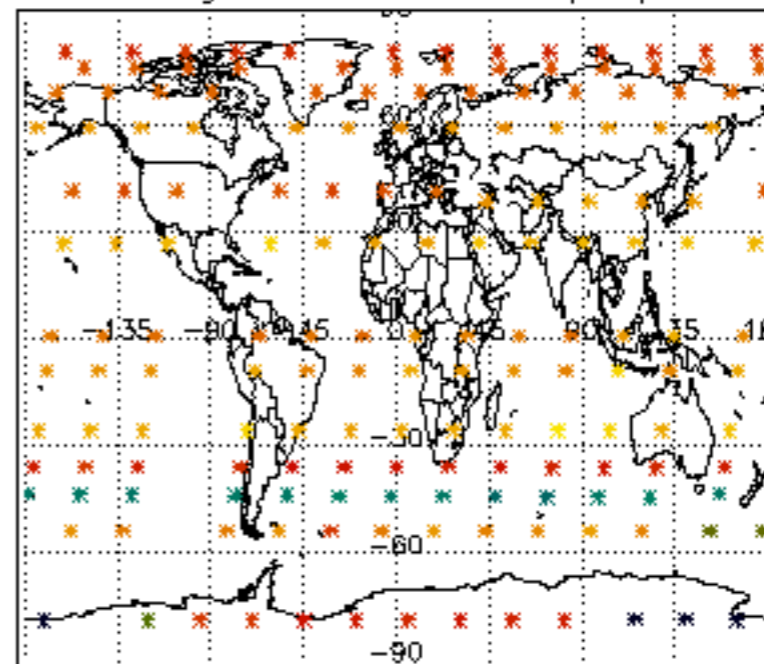
Percentage of saturation errors per profile



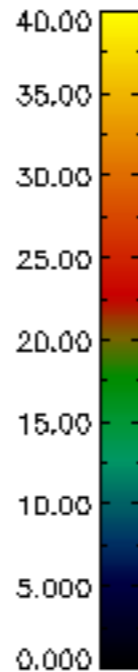
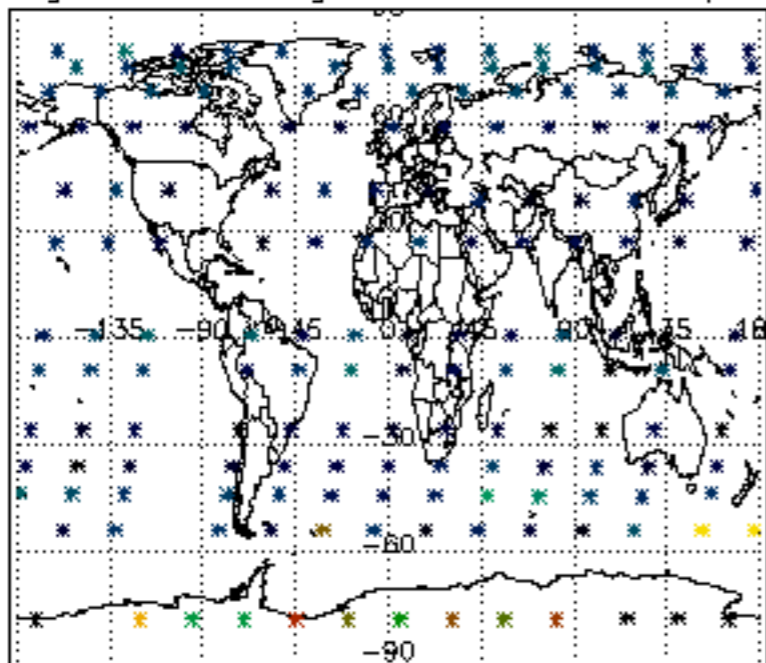
Percentage of cosmic ray hits per profile



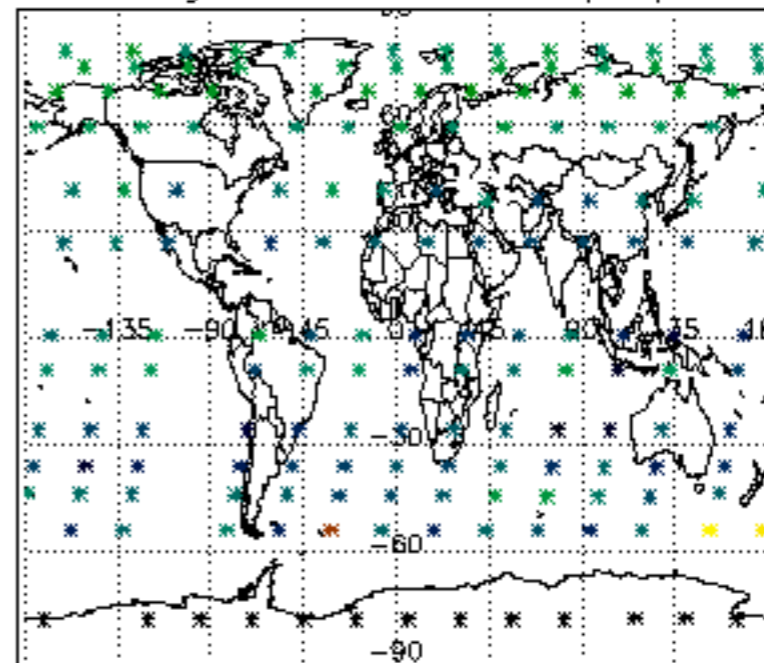
Percentage of datation errors per profile



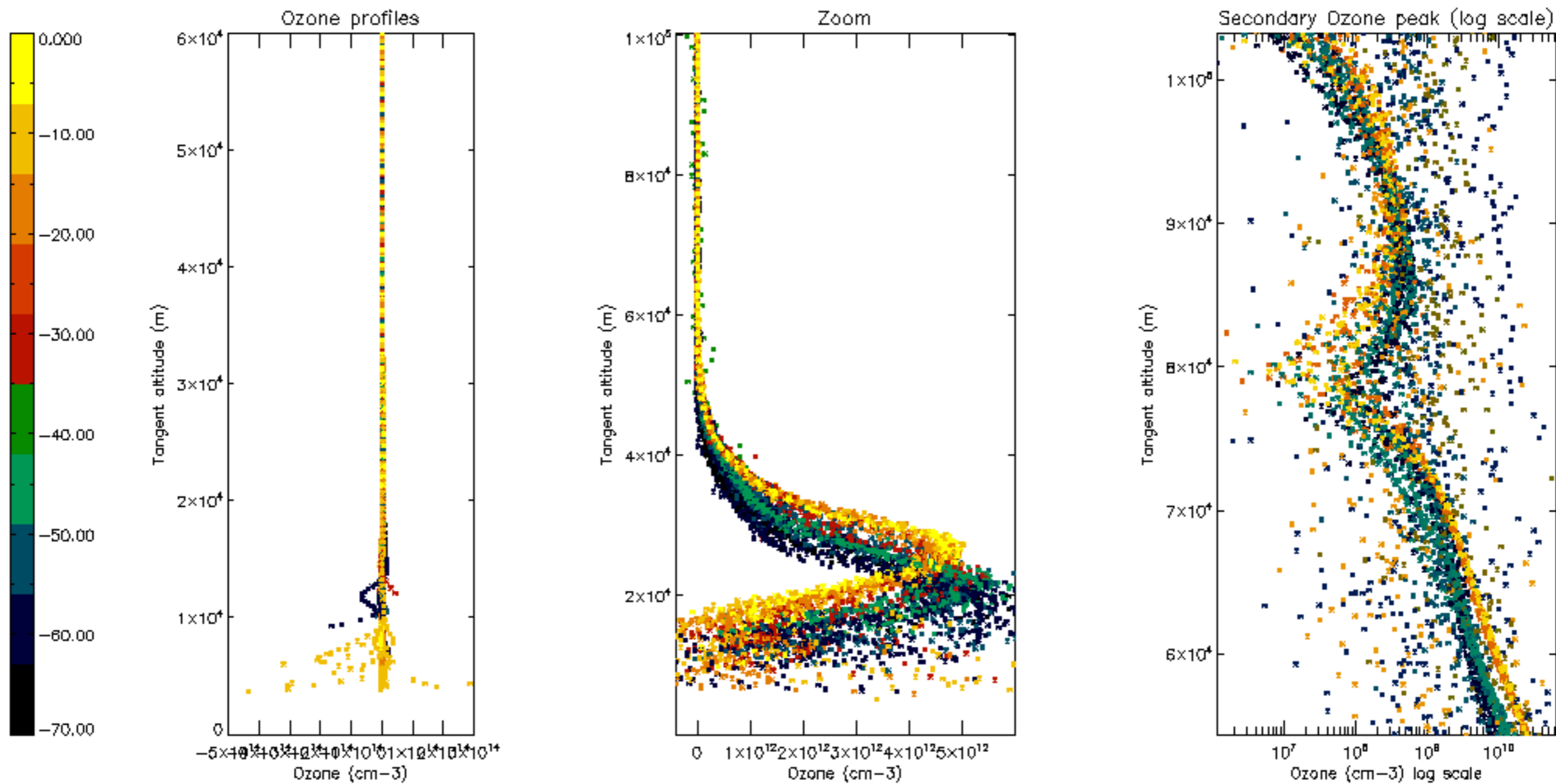
Percentage of star falling outside central band per profile

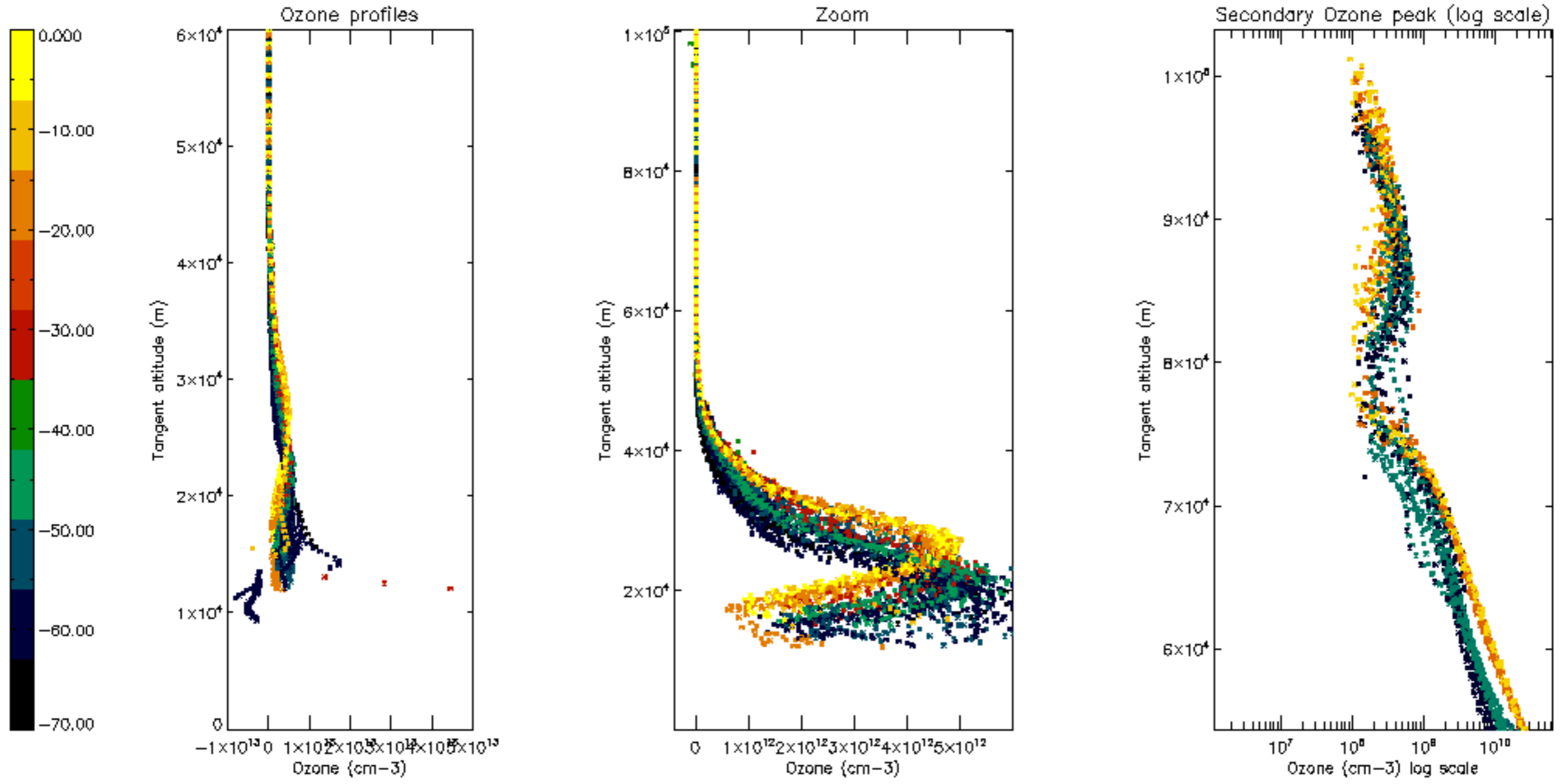


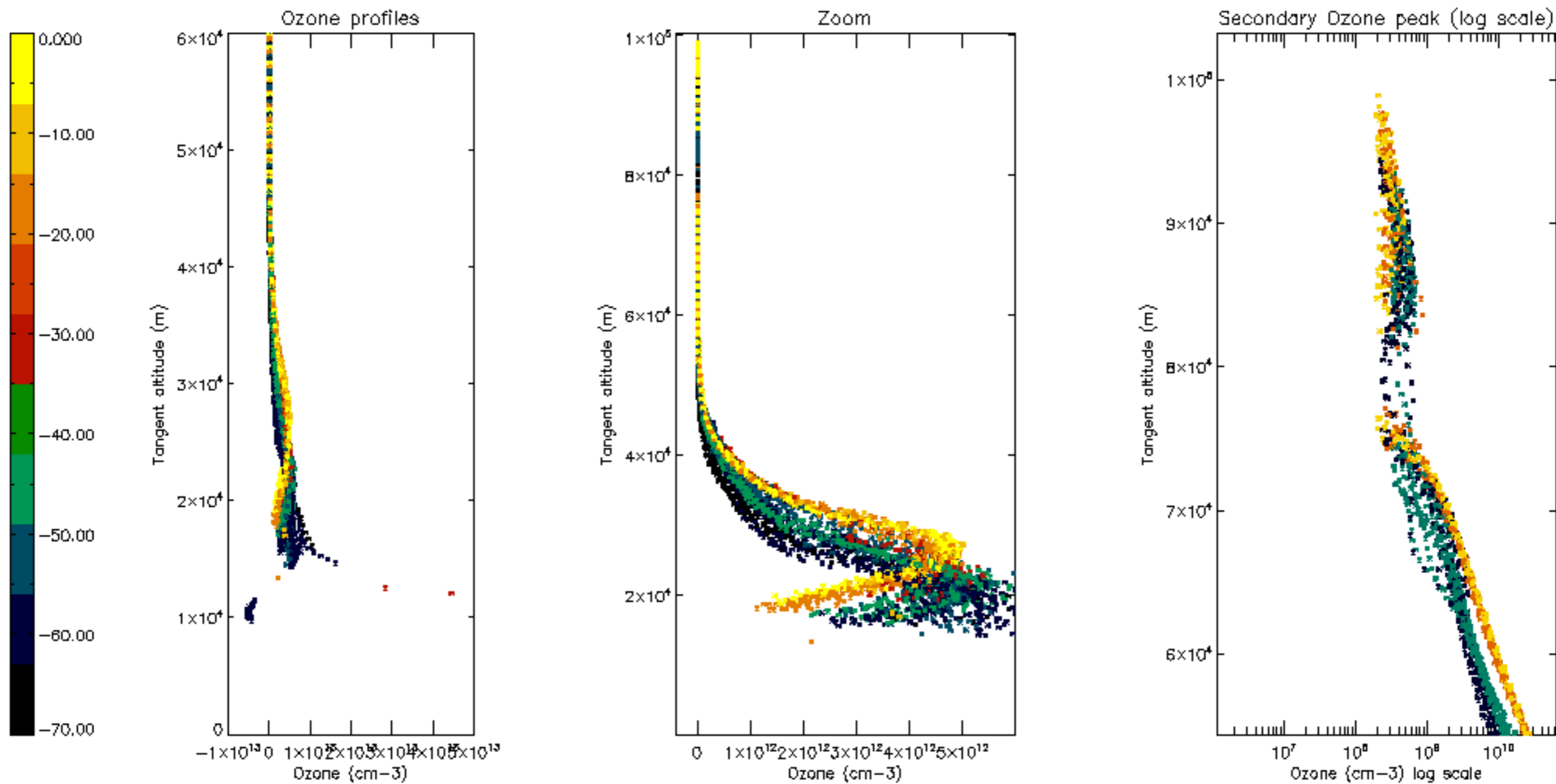
Percentage of saturation errors per profile

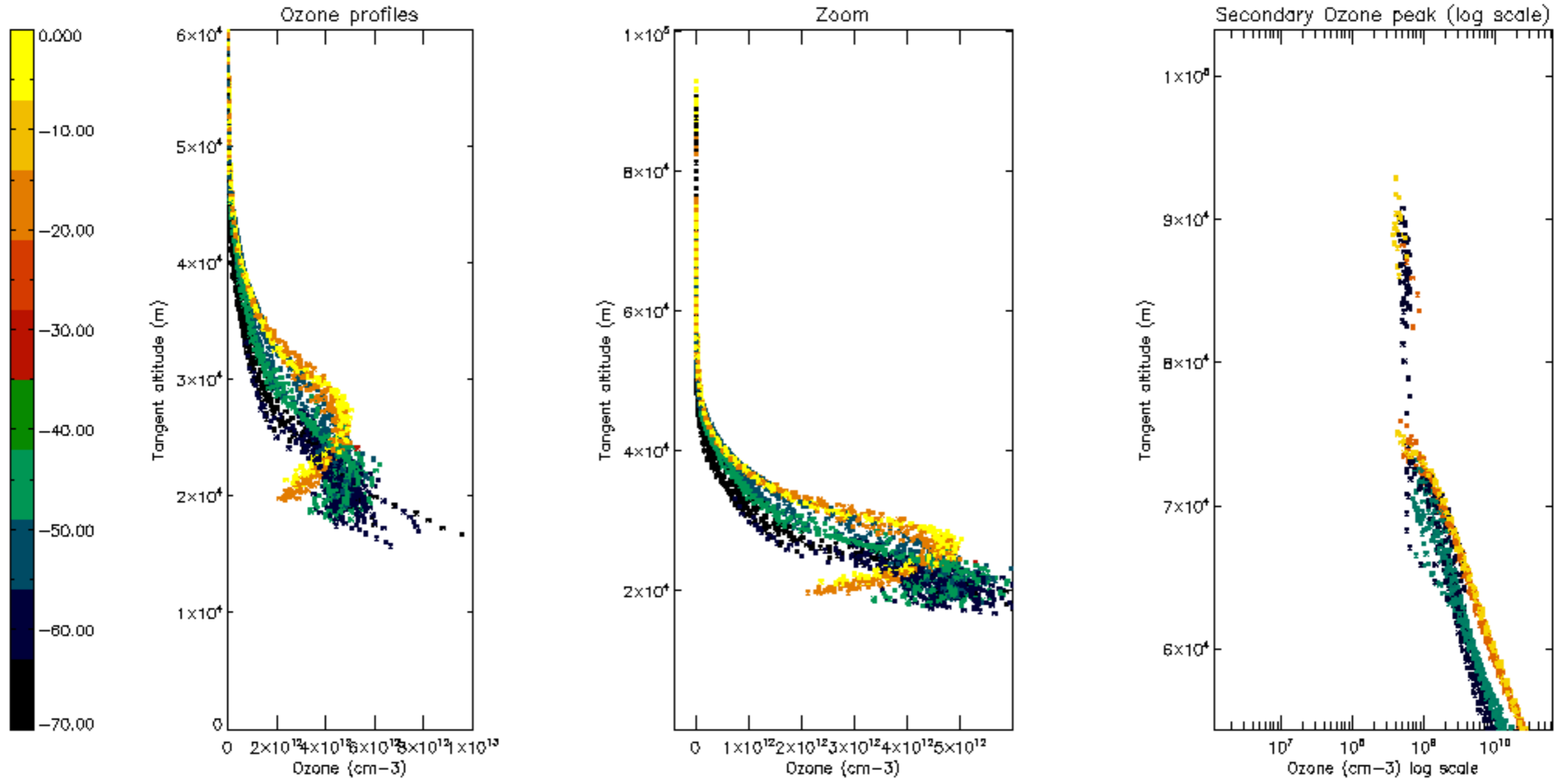


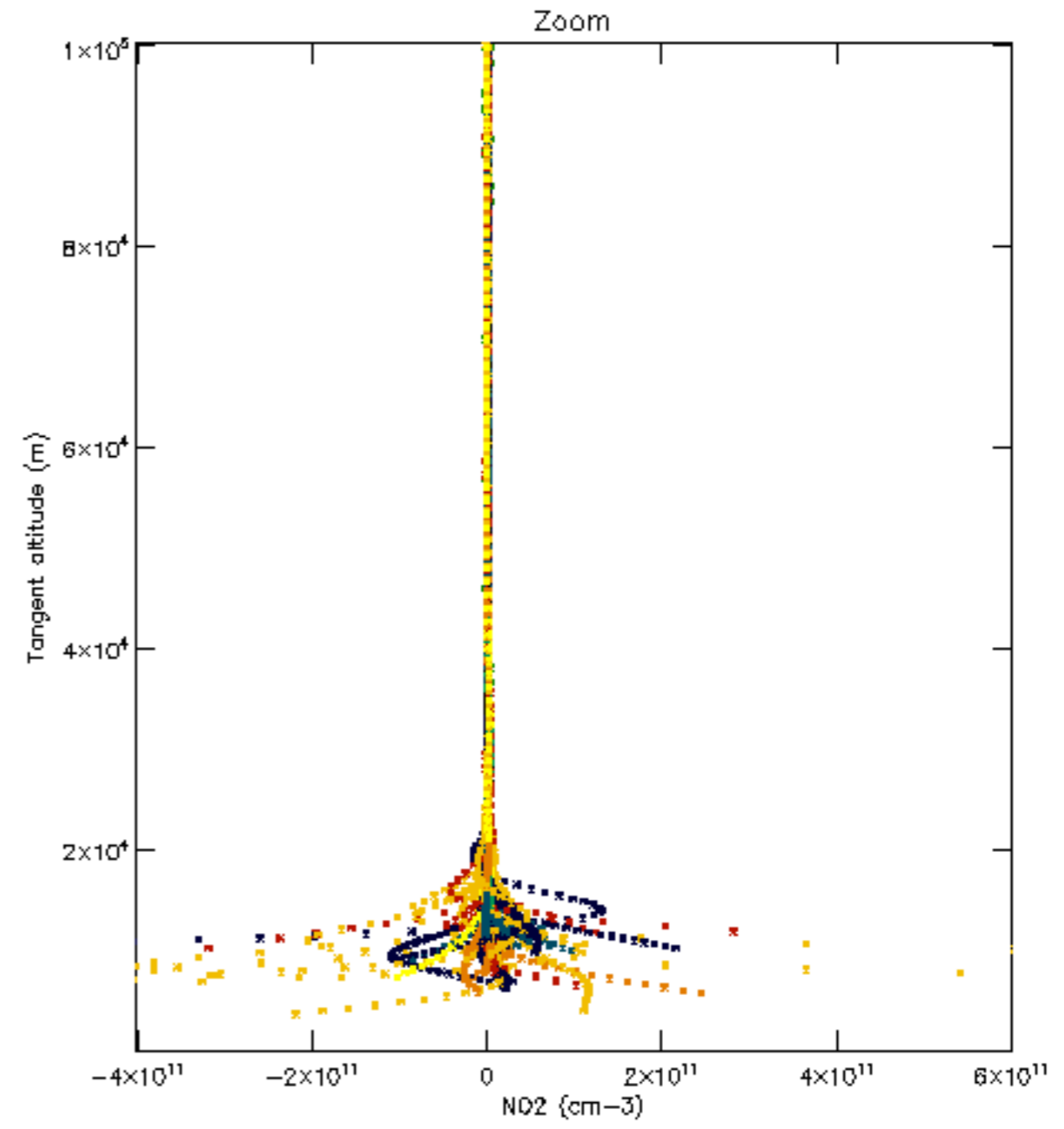
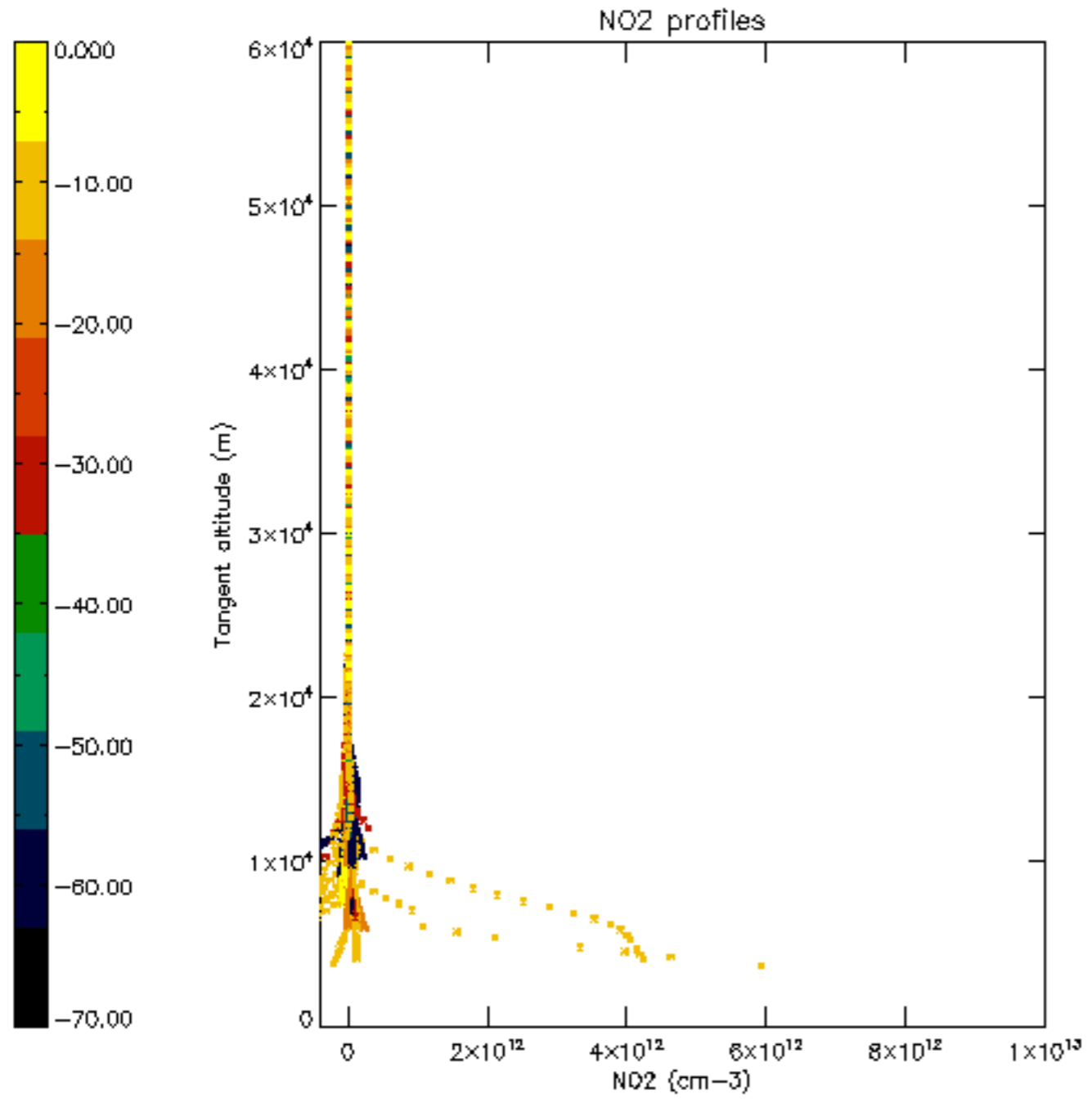


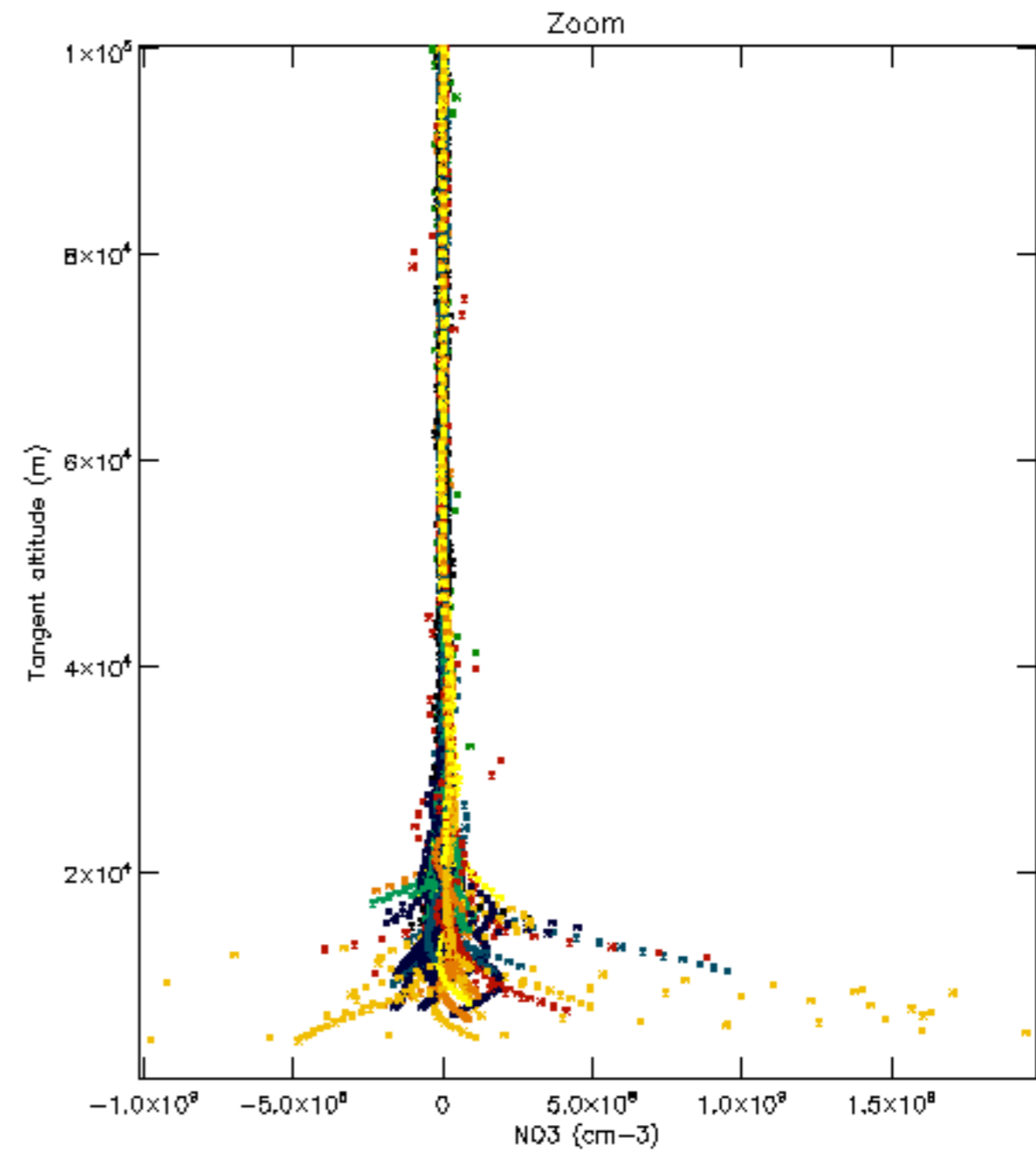
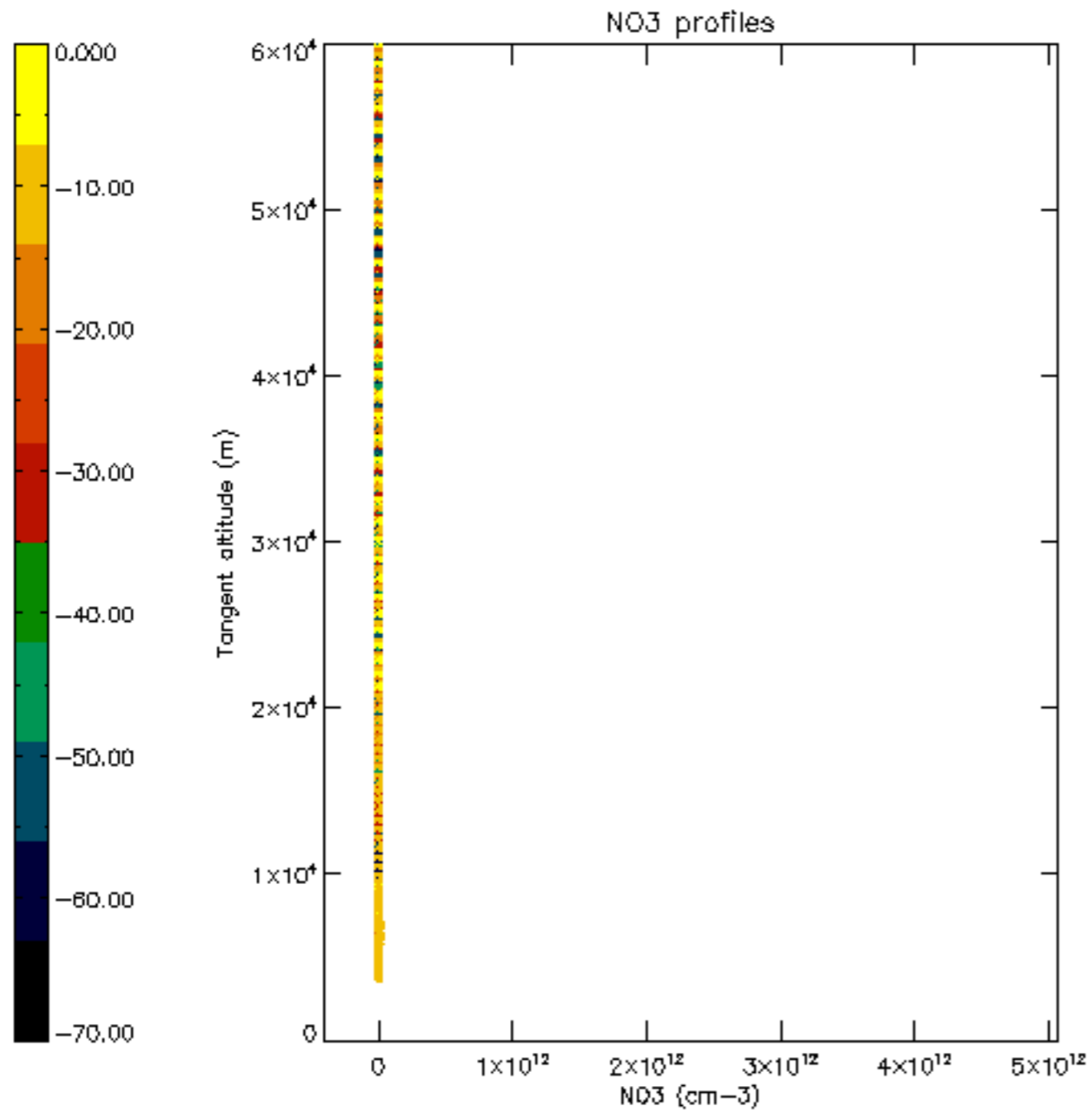


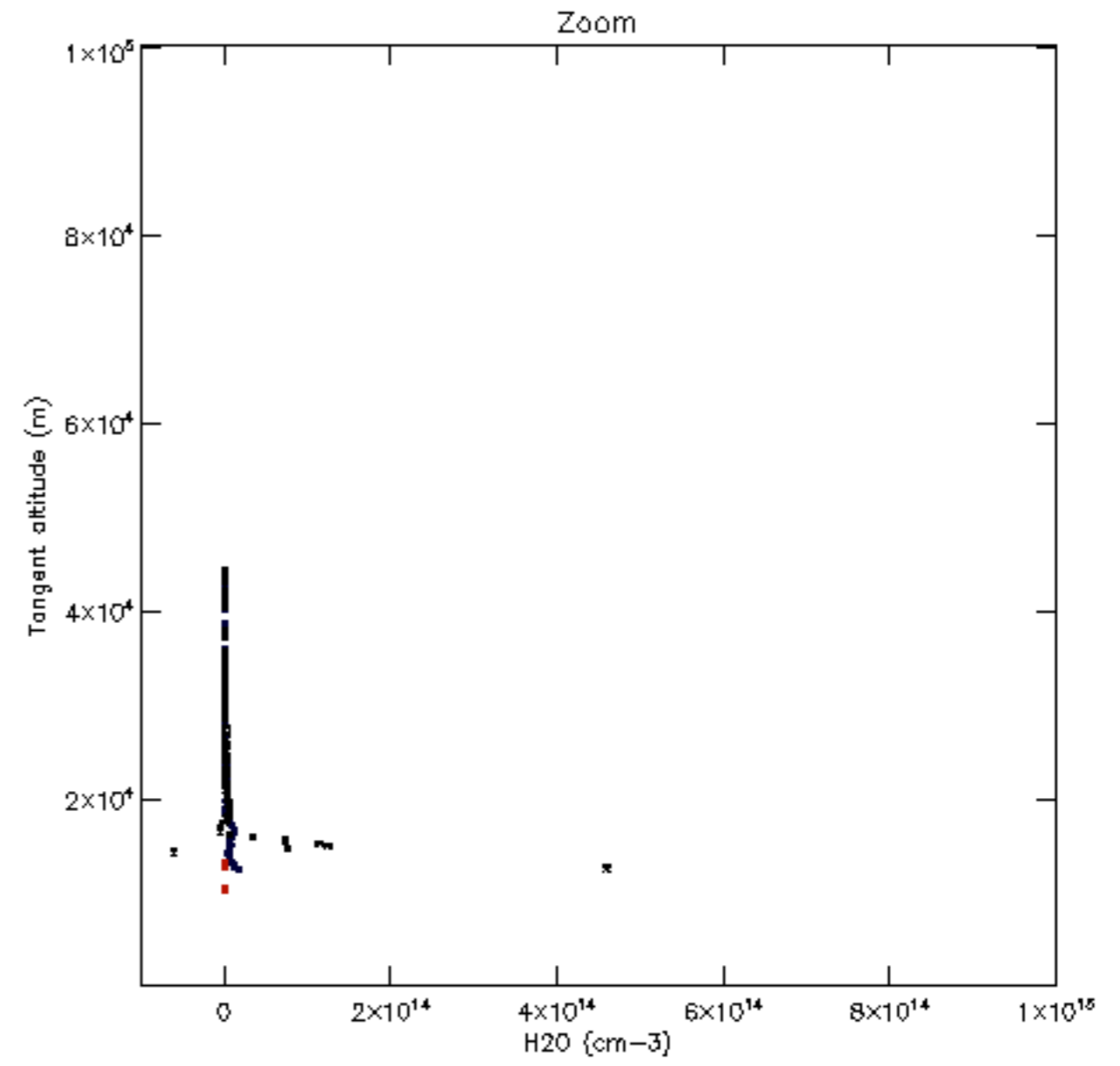
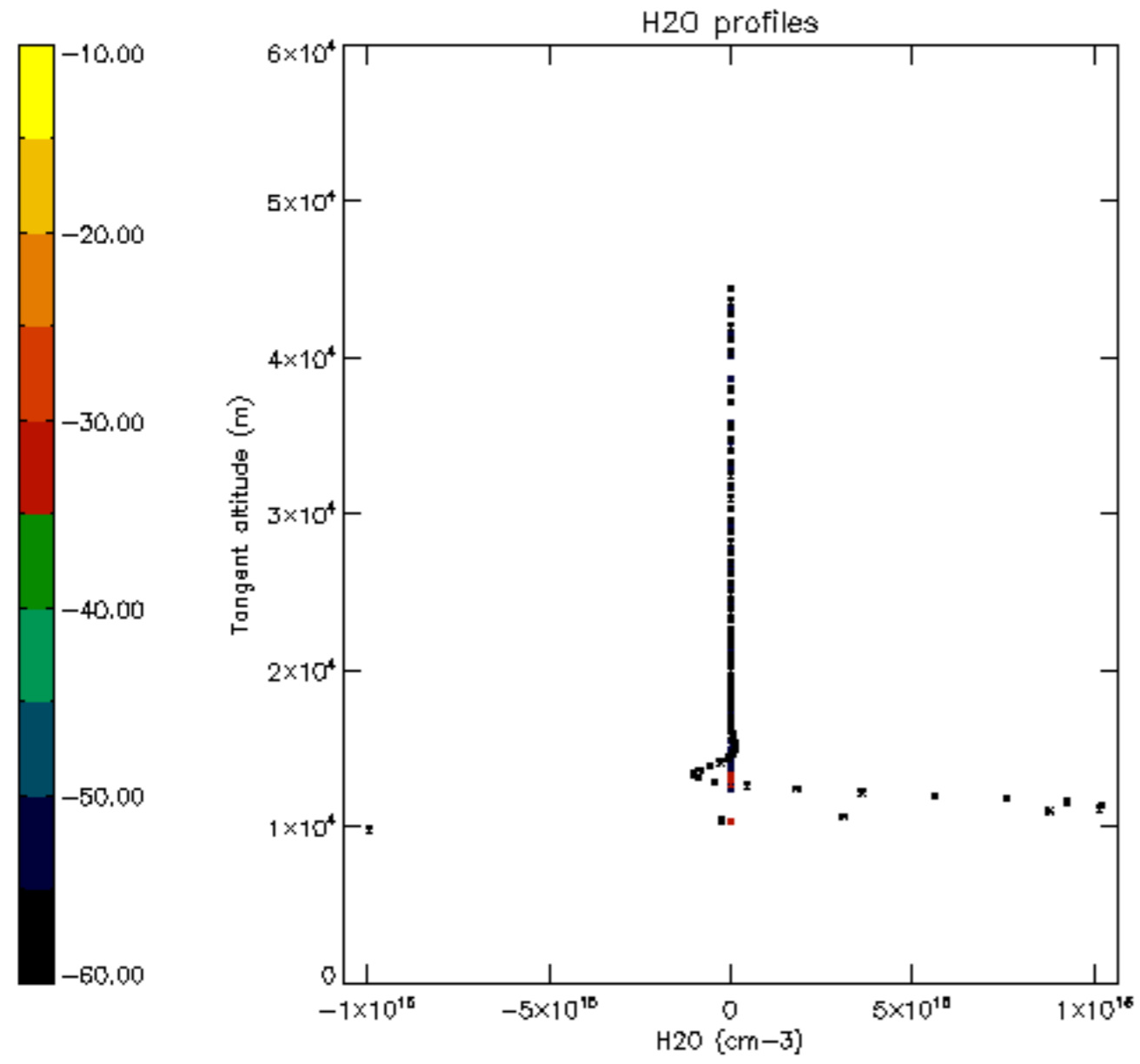


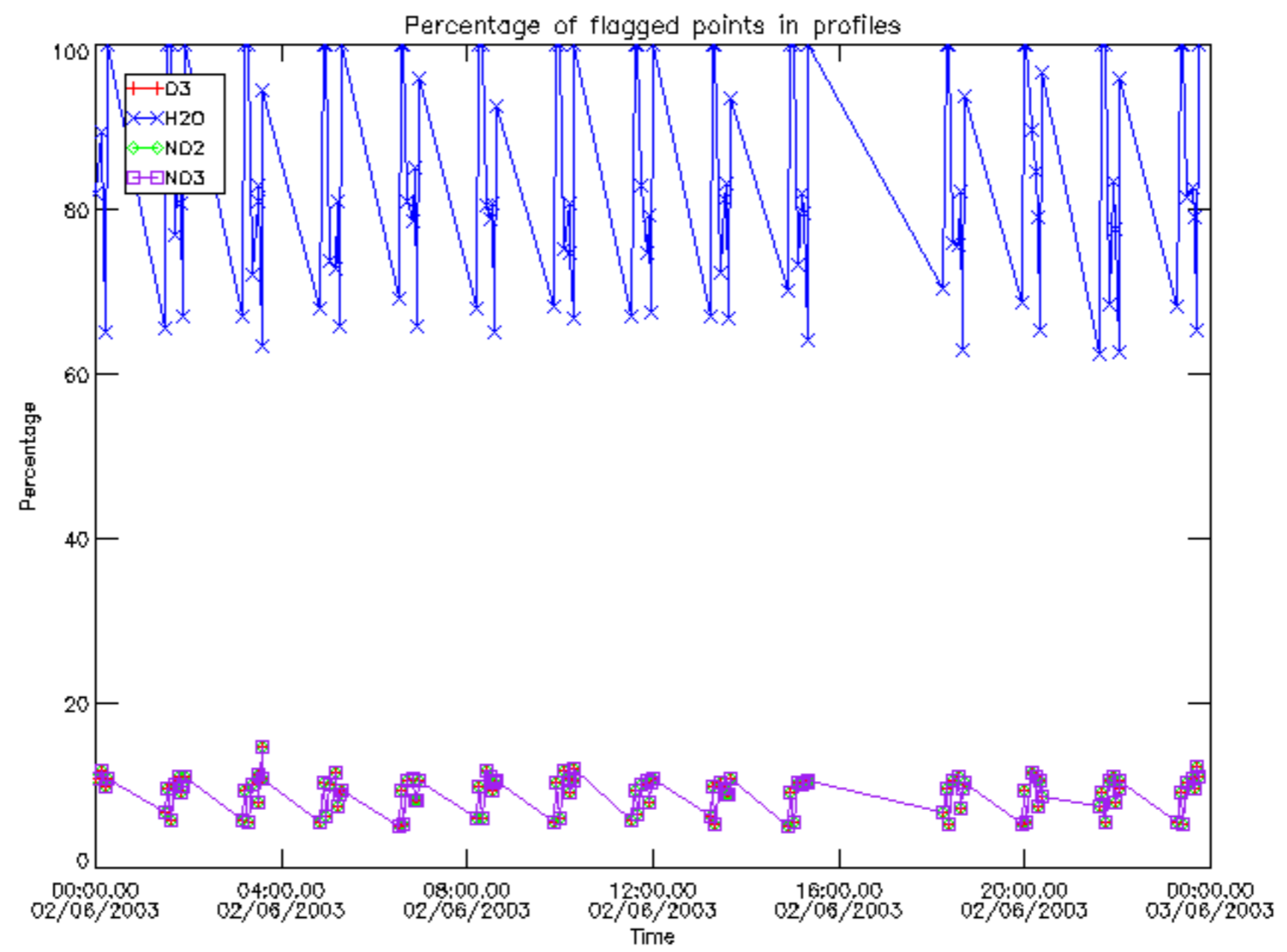






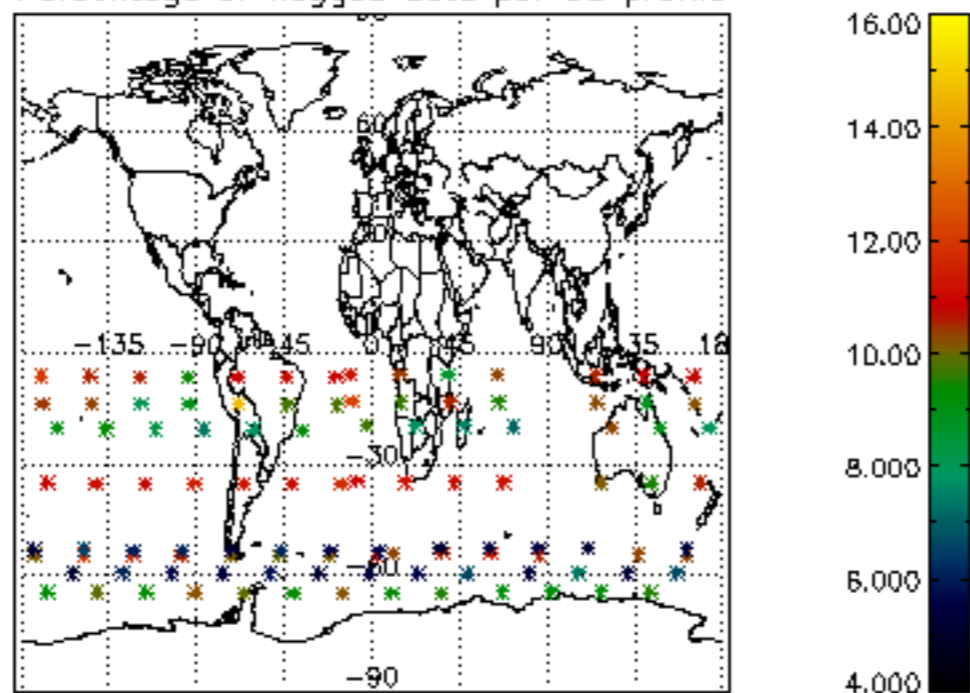




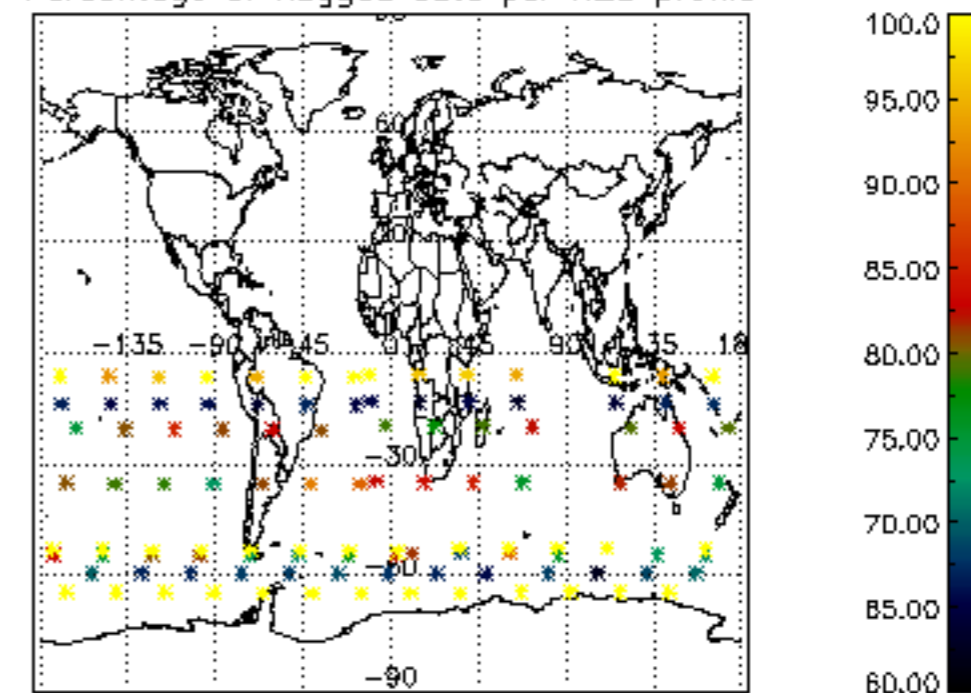




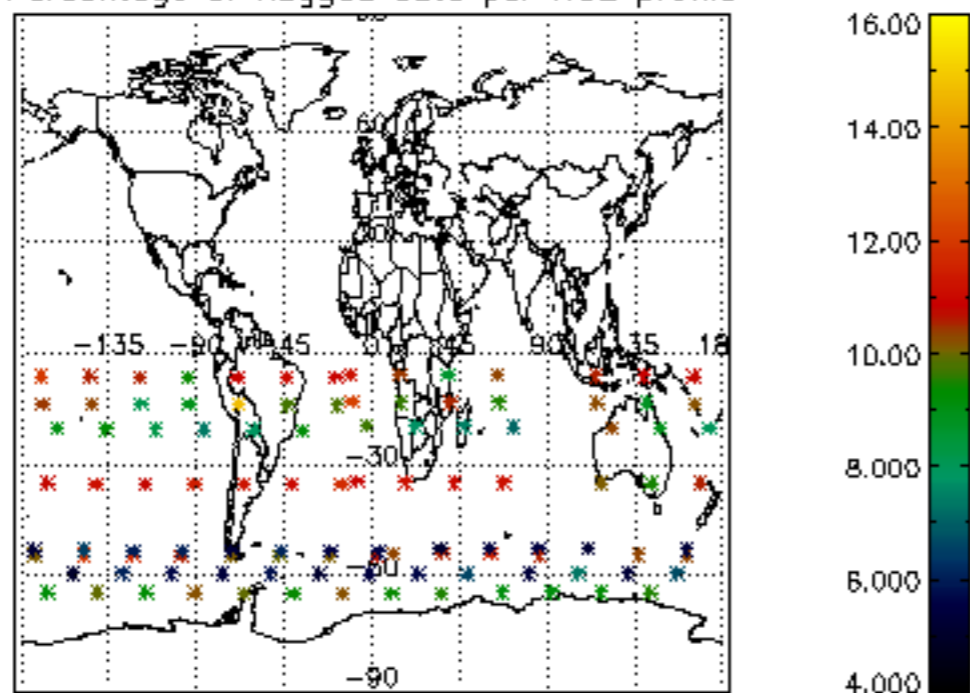
Percentage of flagged data per D3 profile



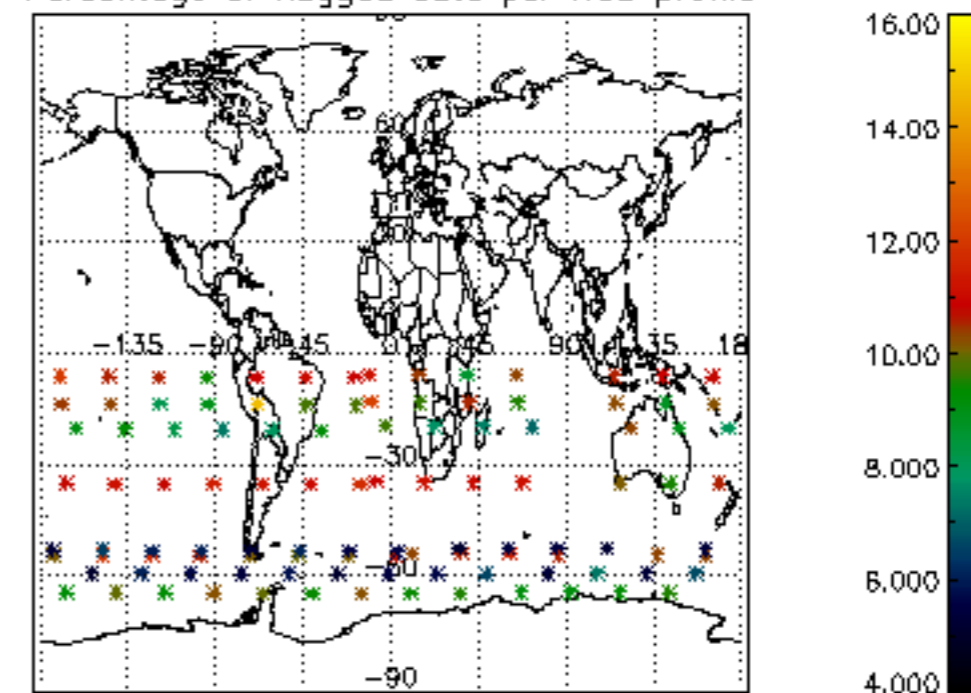
Percentage of flagged data per H2O profile

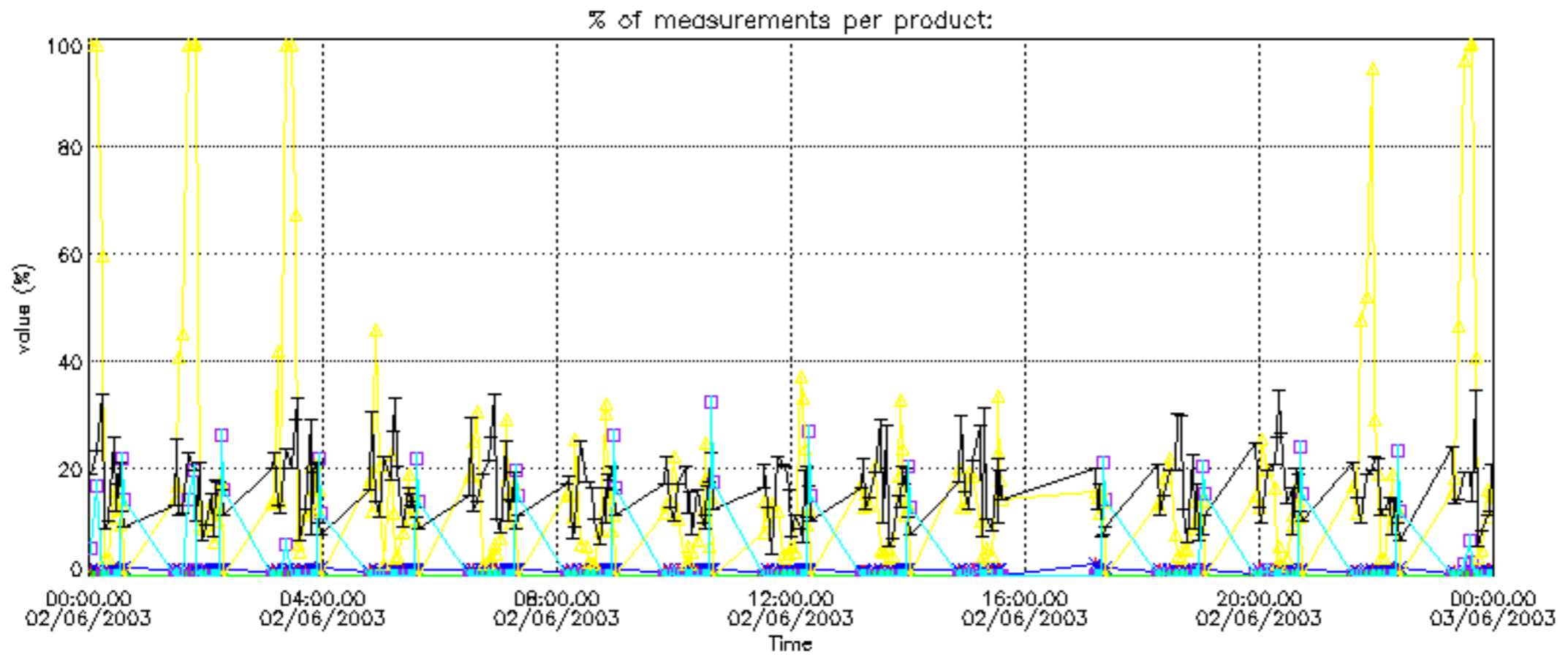


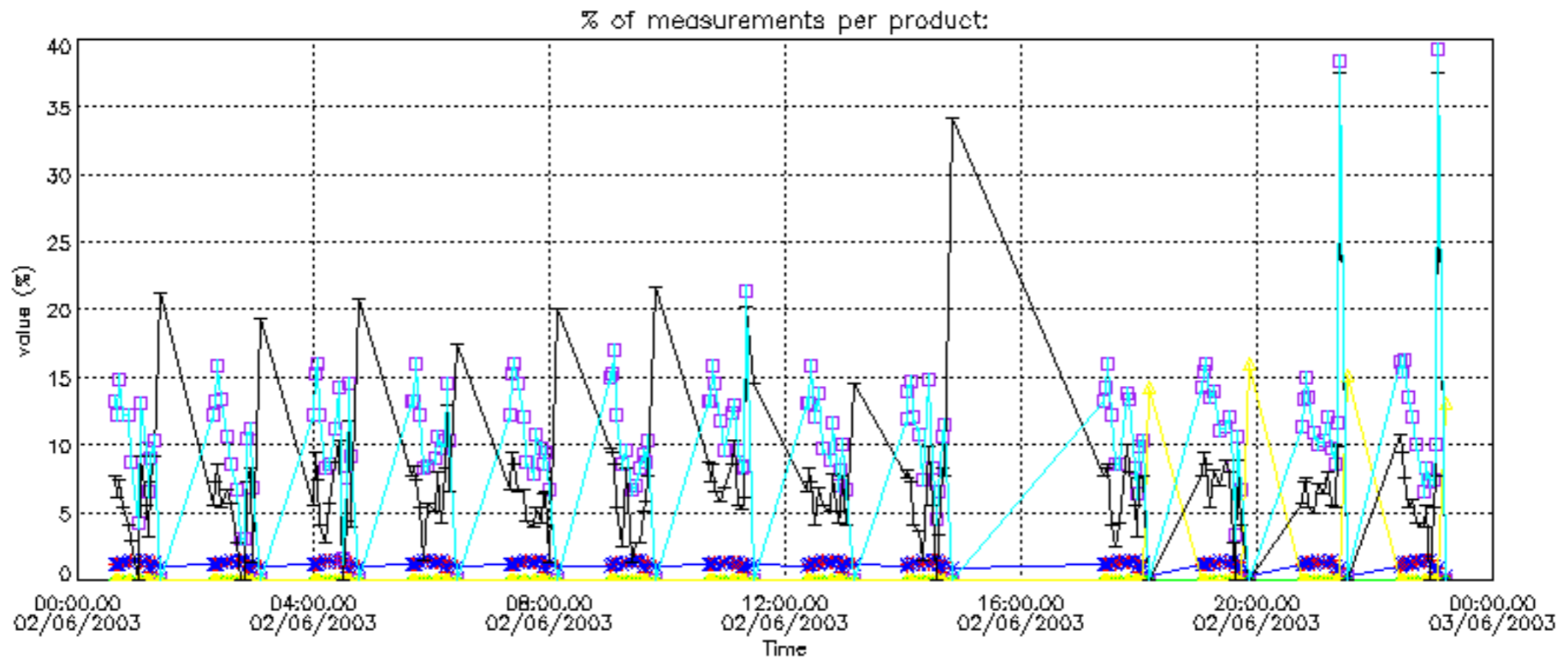
Percentage of flagged data per NO2 profile



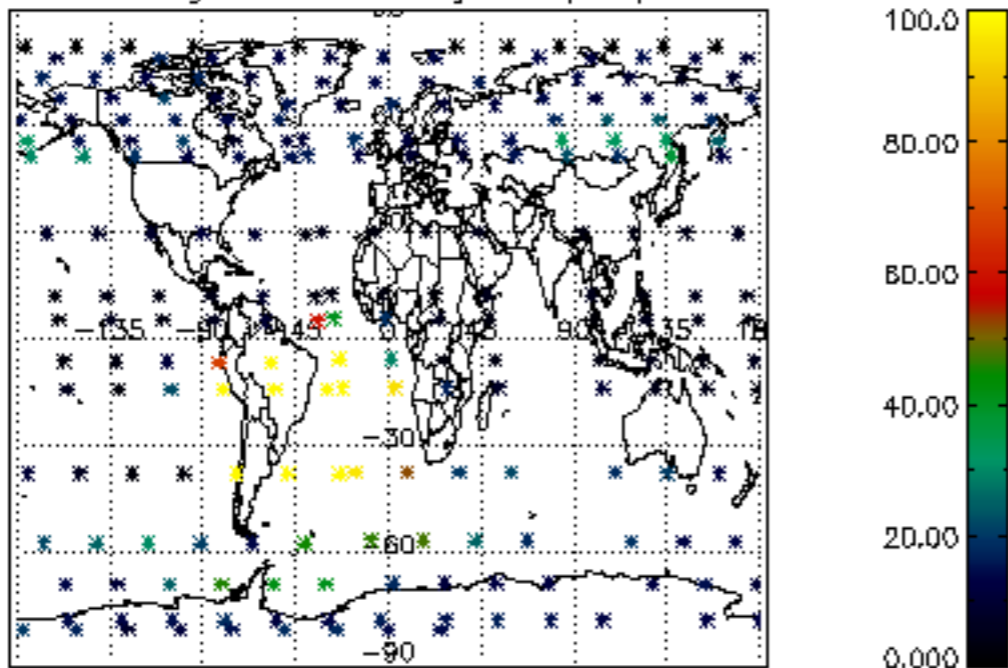
Percentage of flagged data per NO3 profile



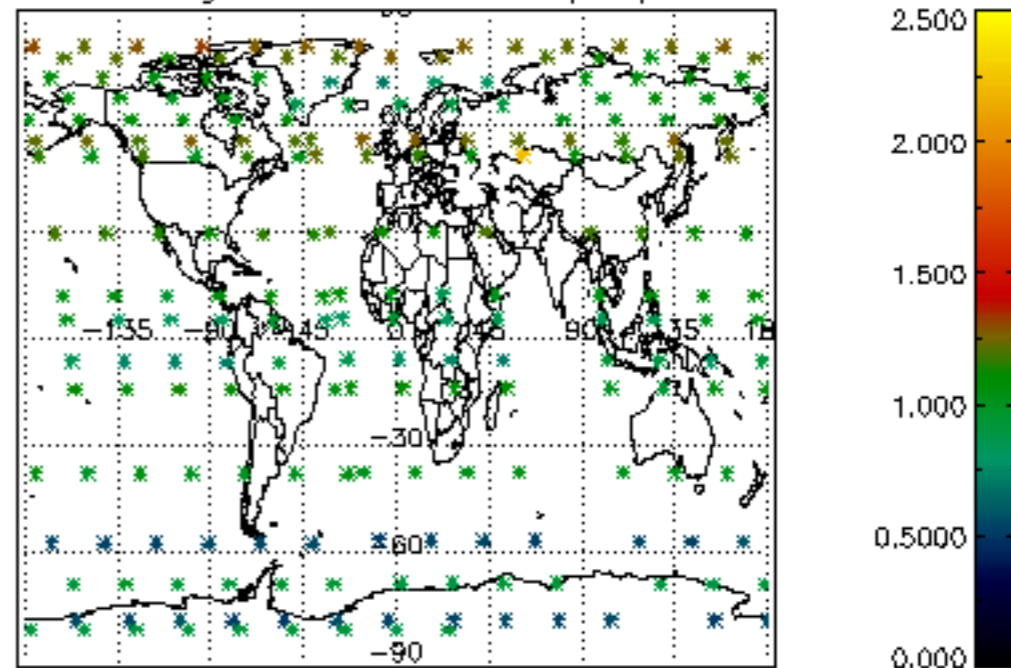




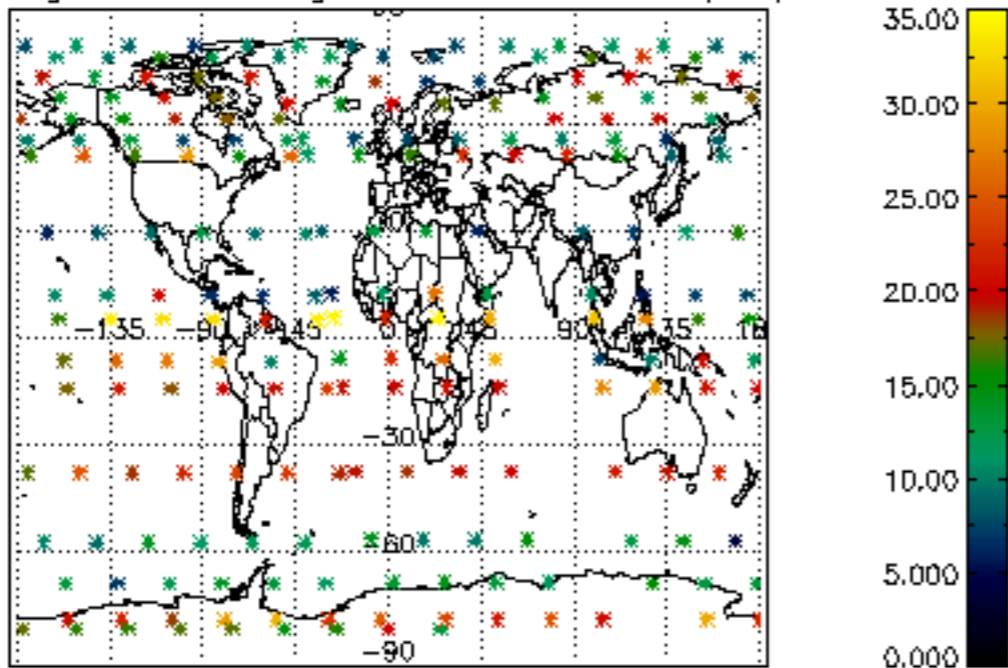
Percentage of cosmic ray hits per profile



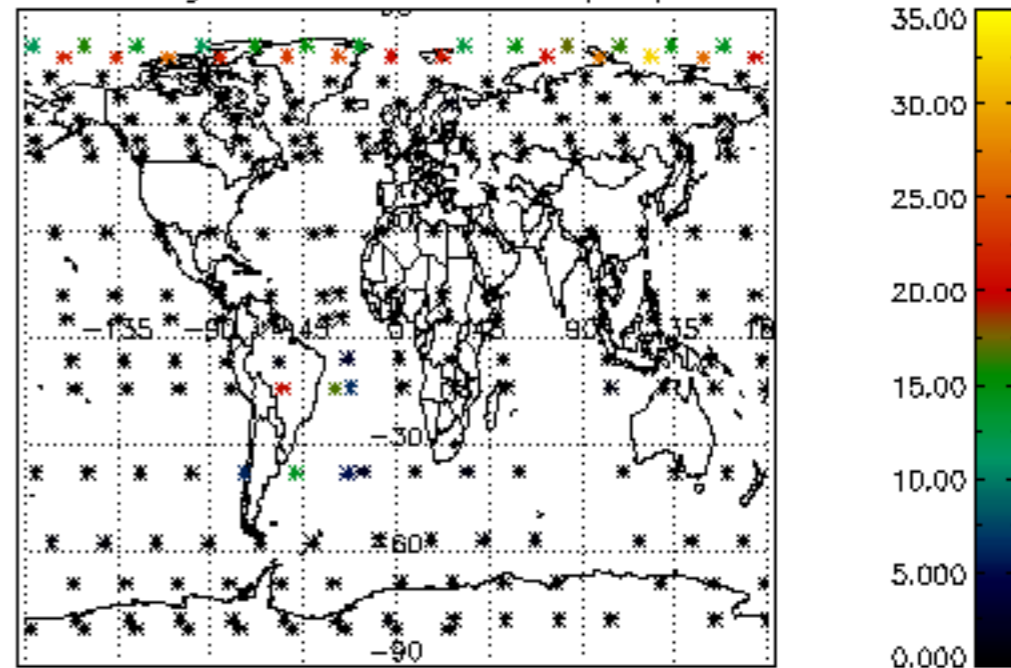
Percentage of datation errors per profile



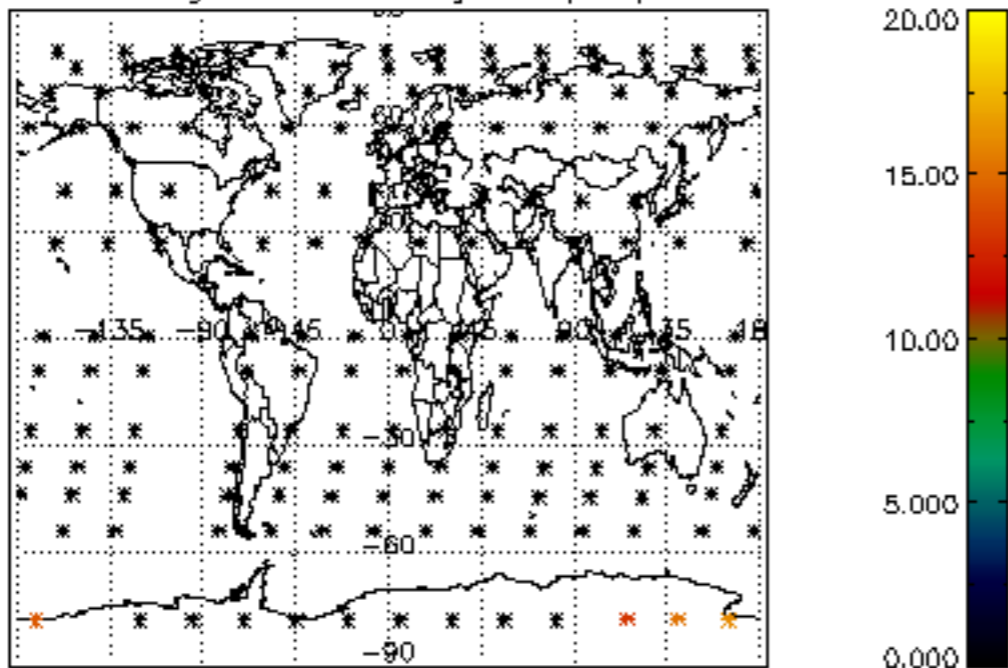
Percentage of star falling outside central band per profile



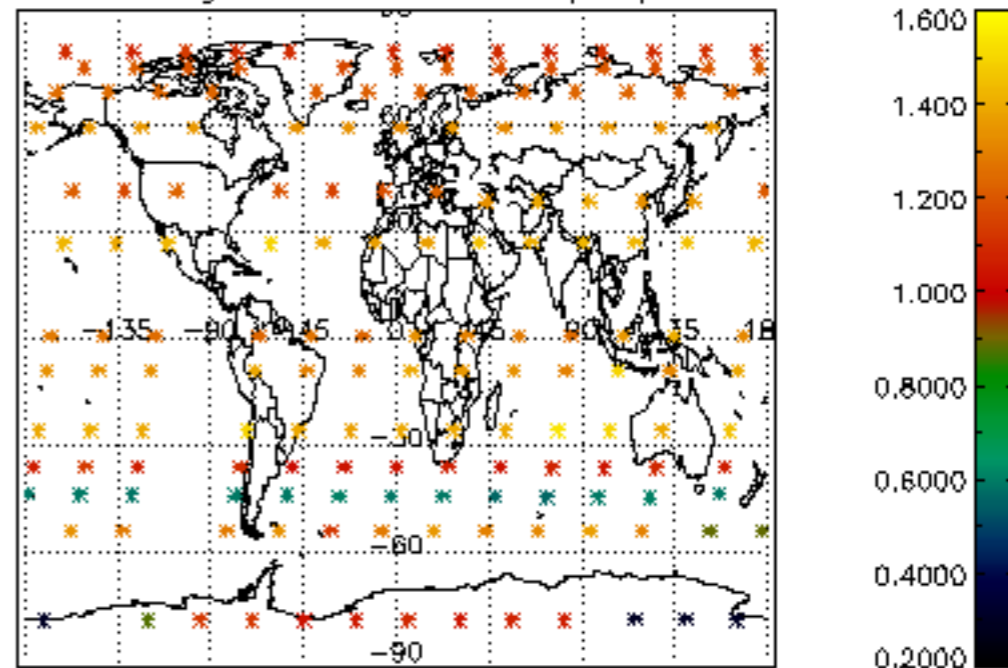
Percentage of saturation errors per profile



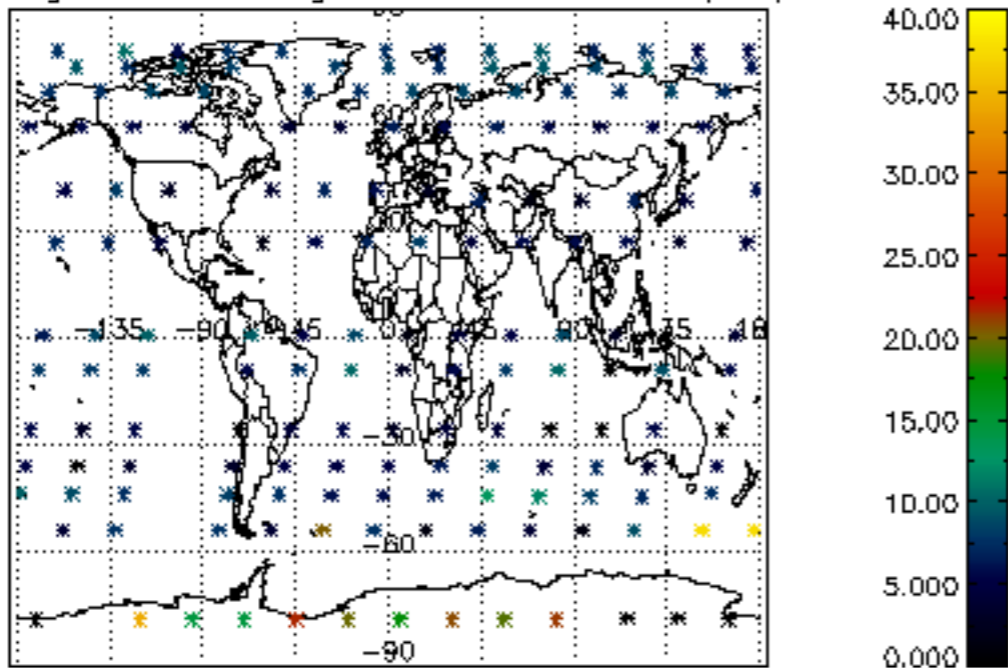
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

