

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	25APR2013 08:56:32
Data source version	GOMOS/6.01
Start time of products	09-01-2009 (09JAN2009 00:00:00)
Stop time of products	10-01-2009 (10JAN2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	282
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

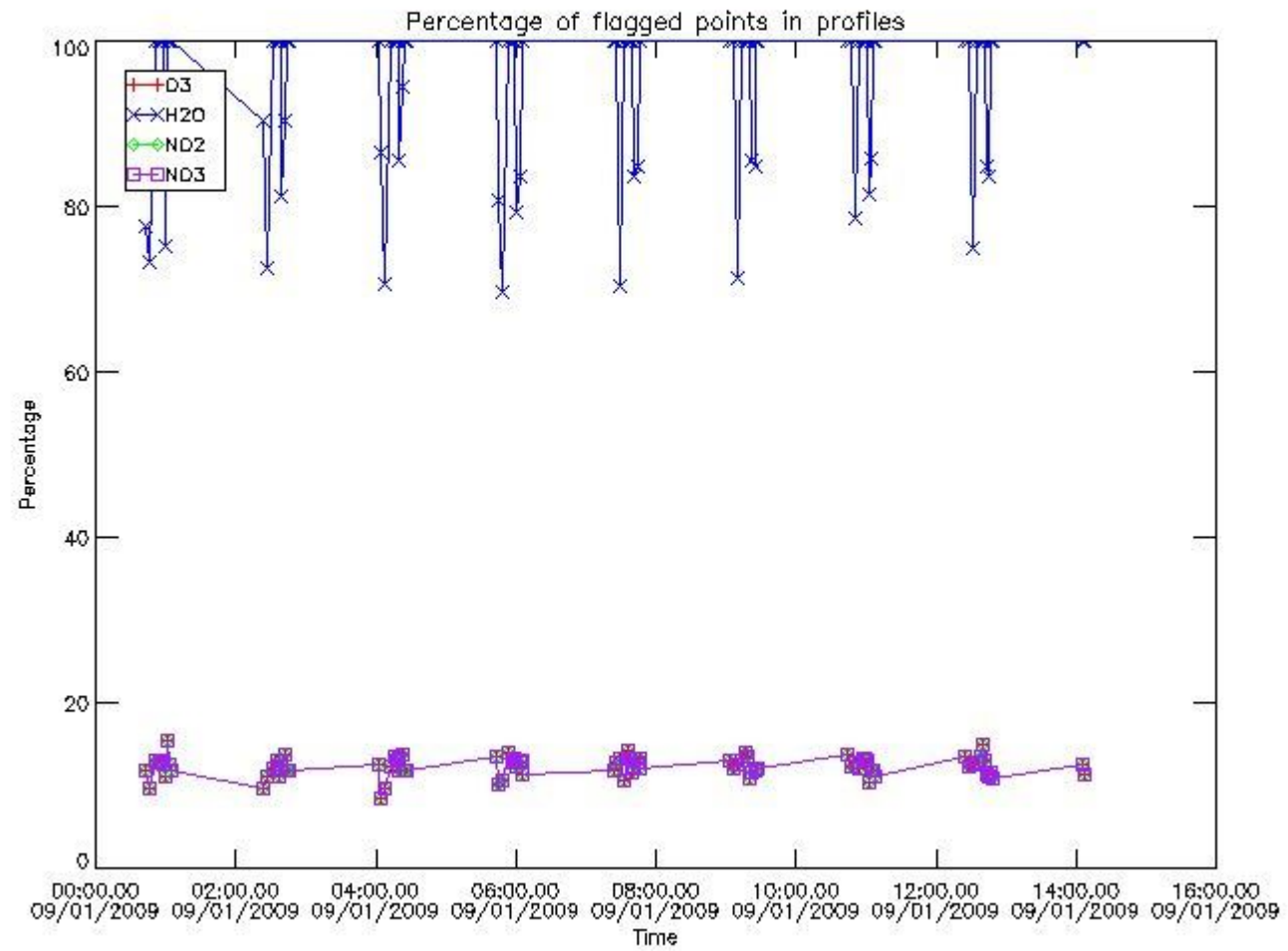
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090109_000238_000000352075_00245_35870_2224.N1	09-JAN-2009 00:02:38	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	35870	No
2	GOM_NL__2PRFIN20090109_000650_000000352075_00245_35870_2225.N1	09-JAN-2009 00:06:50	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	35870	No
3	GOM_NL__2PRFIN20090109_001058_000000392075_00245_35870_2226.N1	09-JAN-2009 00:10:58	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	35870	No
4	GOM_NL__2PRFIN20090109_001320_000000342075_00245_35870_2227.N1	09-JAN-2009 00:13:20	Bright	33.500	130	23Bet Dra	2.7990	5800.0	67	35870	No
5	GOM_NL__2PRFIN20090109_001934_000000512075_00245_35870_2228.N1	09-JAN-2009 00:19:34	Bright	50.500	133	40Zet Her	2.8070	6000.0	101	35870	No
6	GOM_NL__2PRFIN20090109_002142_000000412075_00245_35870_2229.N1	09-JAN-2009 00:21:42	Bright	40.500	67	5Alp CrB	2.2210	11000.	81	35870	No
7	GOM_NL__2PRFIN20090109_002745_000000572075_00245_35870_2230.N1	09-JAN-2009 00:27:45	Bright	57.000	102	24Alp Ser	2.6000	4250.0	114	35870	No
8	GOM_NL__2PRFIN20090109_002958_000000362075_00245_35870_2231.N1	09-JAN-2009 00:29:58	Bright	36.000	120	1Del Oph	2.7340	3200.0	72	35870	No
9	GOM_NL__2PRFIN20090109_003126_000000522075_00245_35870_2232.N1	09-JAN-2009 00:31:26	Bright	52.000	98	13Zet Oph	2.5710	30000.	104	35870	No
10	GOM_NL__2PRFIN20090109_003311_000000462075_00245_35870_2233.N1	09-JAN-2009 00:33:11	Twilight	46.000	104	27Bet Lib	2.6140	13100.	92	35870	No
11	GOM_NL__2PRFIN20090109_003527_000000452075_00245_35870_2234.N1	09-JAN-2009 00:35:27	Twilight	44.500	80	7Del Sco	2.3160	30000.	89	35870	No
12	GOM_NL__2PRFIN20090109_004315_000000562075_00245_35870_2235.N1	09-JAN-2009 00:43:15	Dark	56.000	54	5The Cen	2.0550	4500.0	112	35870	No
13	GOM_NL__2PRFIN20090109_004650_000000532075_00246_35871_2797.N1	09-JAN-2009 00:46:50	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	35871	No
14	GOM_NL__2PRFIN20090109_005101_000000402075_00246_35871_2798.N1	09-JAN-2009 00:51:01	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	35871	No
15	GOM_NL__2PRFIN20090109_005421_000000402075_00246_35871_2799.N1	09-JAN-2009 00:54:21	Dark	40.000	124	The Car	2.7640	30000.	80	35871	No
16	GOM_NL__2PRFIN20090109_005558_000000402075_00246_35871_2800.N1	09-JAN-2009 00:55:58	Dark	39.500	29	Bet Car	1.6720	10200.	79	35871	No
17	GOM_NL__2PRFIN20090109_005741_000000412075_00246_35871_2801.N1	09-JAN-2009 00:57:41	Dark	40.500	71	lot Car	2.2460	7700.0	81	35871	No
18	GOM_NL__2PRFIN20090109_005904_000000512075_00246_35871_2802.N1	09-JAN-2009 00:59:04	Dark	51.000	41	Eps Car	1.8600	4100.0	102	35871	No
19	GOM_NL__2PRFIN20090109_010134_000000332075_00246_35871_2803.N1	09-JAN-2009 01:01:34	Dark	33.000	65	Lam Vel	2.2040	4400.0	66	35871	No
20	GOM_NL__2PRFIN20090109_010308_000000412075_00246_35871_2804.N1	09-JAN-2009 01:03:08	Dark	41.000	161	Tau Pup	2.9310	4500.0	82	35871	No
21	GOM_NL__2PRFIN20090109_010432_000000432075_00246_35871_2805.N1	09-JAN-2009 01:04:32	Dark	43.000	70	Zet Pup	2.2460	39000.	86	35871	No
22	GOM_NL__2PRFIN20090109_010622_000000462075_00246_35871_2806.N1	09-JAN-2009 01:06:22	Straylight	45.500	117	Pi Pup	2.7060	3800.0	91	35871	No
23	GOM_NL__2PRFIN20090109_010900_000000462075_00246_35871_2807.N1	09-JAN-2009 01:09:00	Straylight	45.500	23	21Eps CMa	1.5020	26000.	91	35871	No
24	GOM_NL__2PRFIN20090109_011028_000000442075_00246_35871_2808.N1	09-JAN-2009 01:10:28	Straylight	43.500	179	24Omi2CMa	3.0320	24000.	87	35871	No
25	GOM_NL__2PRFIN20090109_011246_000000482075_00246_35871_2809.N1	09-JAN-2009 01:12:46	Straylight	47.500	1	9Alp CMa	-1.4400	11000.	95	35871	No
26	GOM_NL__2PRFIN20090109_011514_000000422075_00246_35871_2810.N1	09-JAN-2009 01:15:14	Straylight	41.500	56	53Kap Ori	2.0650	30000.	83	35871	No
27	GOM_NL__2PRFIN20090109_011742_000000432075_00246_35871_2811.N1	09-JAN-2009 01:17:42	Straylight	42.500	30	46Eps Ori	1.6940	30000.	85	35871	No
28	GOM_NL__2PRFIN20090109_012002_000000512075_00246_35871_2812.N1	09-JAN-2009 01:20:02	Twilight	50.500	14	58Alp Ori	0.87000	3000.0	101	35871	No
29	GOM_NL__2PRFIN20090109_012249_000000452075_00246_35871_2813.N1	09-JAN-2009 01:22:49	Twilight	45.000	44	24Gam Gem	1.9280	11000.	90	35871	No
30	GOM_NL__2PRFIN20090109_012430_000000452075_00246_35871_2814.N1	09-JAN-2009 01:24:30	Bright	45.000	151	13Mu Gem	2.8900	3000.0	90	35871	No
31	GOM_NL__2PRFIN20090109_012606_000000372075_00246_35871_2815.N1	09-JAN-2009 01:26:06	Bright	36.500	28	12Bet Tau	1.6500	15200.	73	35871	No
32	GOM_NL__2PRFIN20090109_012733_000000372075_00246_35871_2816.N1	09-JAN-2009 01:27:33	Bright	36.500	114	3lot Aur	2.6930	4600.0	73	35871	No
33	GOM_NL__2PRFIN20090109_013048_000000382075_00246_35871_2817.N1	09-JAN-2009 01:30:48	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	35871	No
34	GOM_NL__2PRFIN20090109_014314_000000342075_00246_35871_2818.N1	09-JAN-2009 01:43:14	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	35871	No
35	GOM_NL__2PRFIN20090109_014727_000000412075_00246_35871_2819.N1	09-JAN-2009 01:47:27	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	35871	No
36	GOM_NL__2PRFIN20090109_015134_000000402075_00246_35871_2820.N1	09-JAN-2009 01:51:34	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	35871	No
37	GOM_NL__2PRFIN20090109_015356_000000422075_00246_35871_2821.N1	09-JAN-2009 01:53:56	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	35871	No
38	GOM_NL__2PRFIN20090109_020010_000000352075_00246_35871_2822.N1	09-JAN-2009 02:00:10	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	35871	No
39	GOM_NL__2PRFIN20090109_020218_000000472075_00246_35871_2823.N1	09-JAN-2009 02:02:18	Bright	47.000	67	5Alp CrB	2.2210	11000.	94	35871	No
40	GOM_NL__2PRFIN20090109_020821_000000572075_00246_35871_2824.N1	09-JAN-2009 02:08:21	Bright	57.000	102	24Alp Ser	2.6000	4250.0	114	35871	No
41	GOM_NL__2PRFIN20090109_021033_000000542075_00246_35871_2825.N1	09-JAN-2009 02:10:33	Bright	54.000	120	1Del Oph	2.7340	3200.0	108	35871	No
42	GOM_NL__2PRFIN20090109_021202_000000522075_00246_35871_2826.N1	09-JAN-2009 02:12:02	Bright	52.000	98	13Zet Oph	2.5710	30000.	104	35871	No

279	GOM_NL__2PRFIN20090109_135803_000000472075_00253_35878_3372.N1	09-JAN-2009 13:58:03	Twilight_stray	47.000	104	27Bet Lib	2.6140	13100.	94	35878	No
280	GOM_NL__2PRFIN20090109_140018_000000452075_00253_35878_3373.N1	09-JAN-2009 14:00:18	Twilight_stray	44.500	80	7Del Sco	2.3160	30000.	89	35878	No
281	GOM_NL__2PRFIN20090109_140544_000000412075_00253_35878_3374.N1	09-JAN-2009 14:05:44	Dark	41.000	131	Gamma Lup	2.8000	26000.	82	35878	No
282	GOM_NL__2PRFIN20090109_140758_000000452075_00253_35878_3375.N1	09-JAN-2009 14:07:58	Dark	44.500	81	Eta Cen	2.3560	28000.	89	35878	No

3. Quality information per product

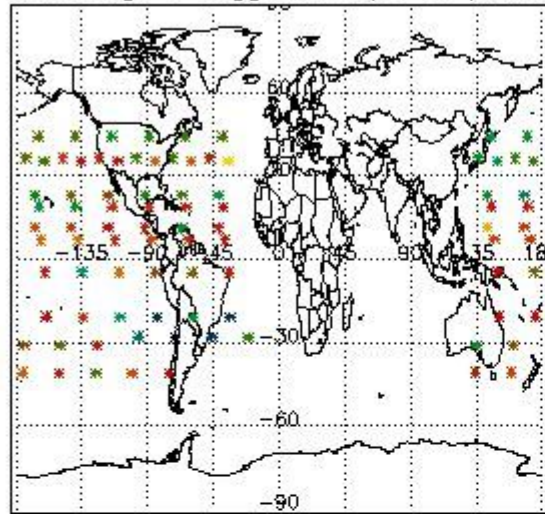
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

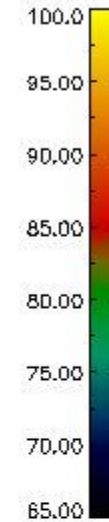
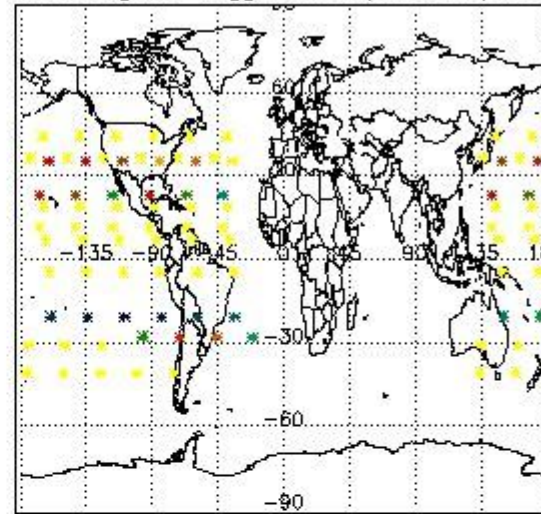


3.2 Plot quality information per product (world map)

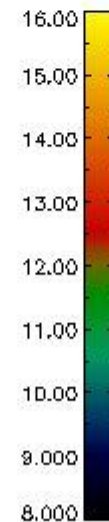
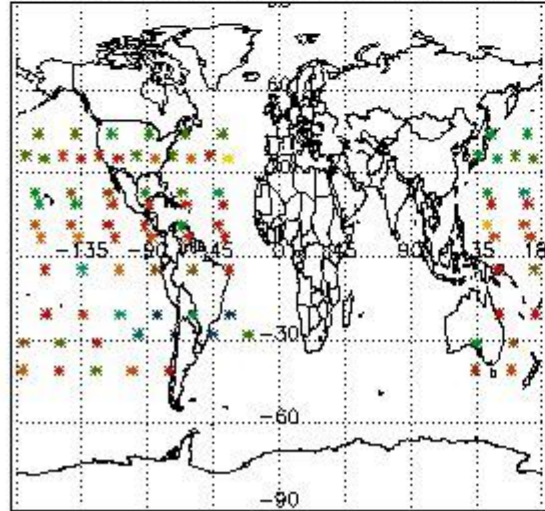
Percentage of flagged data per O3 profile



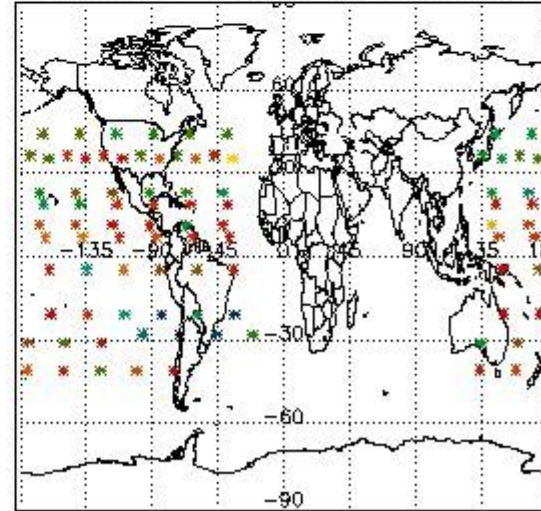
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

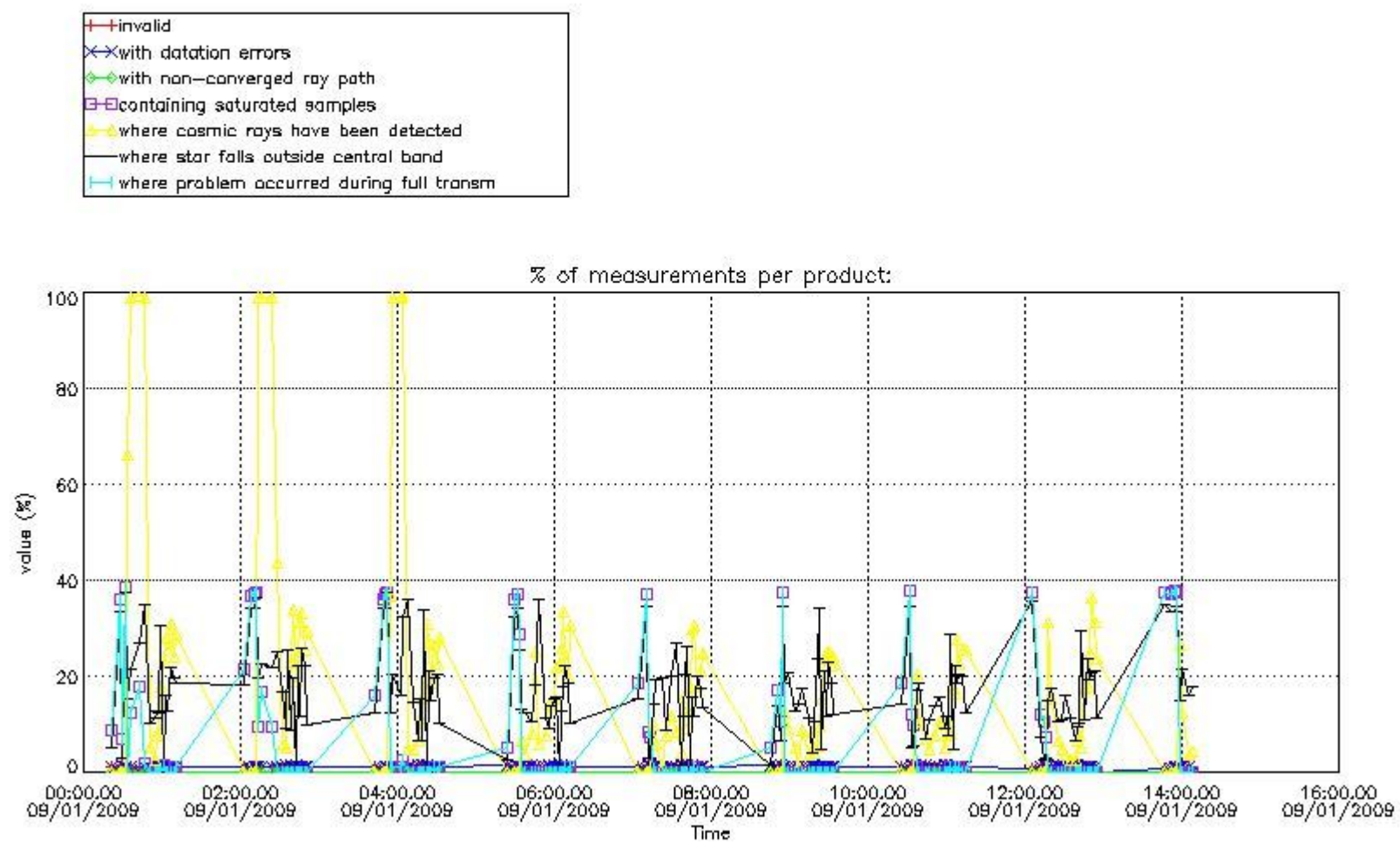


4. Level 1 quality information per product

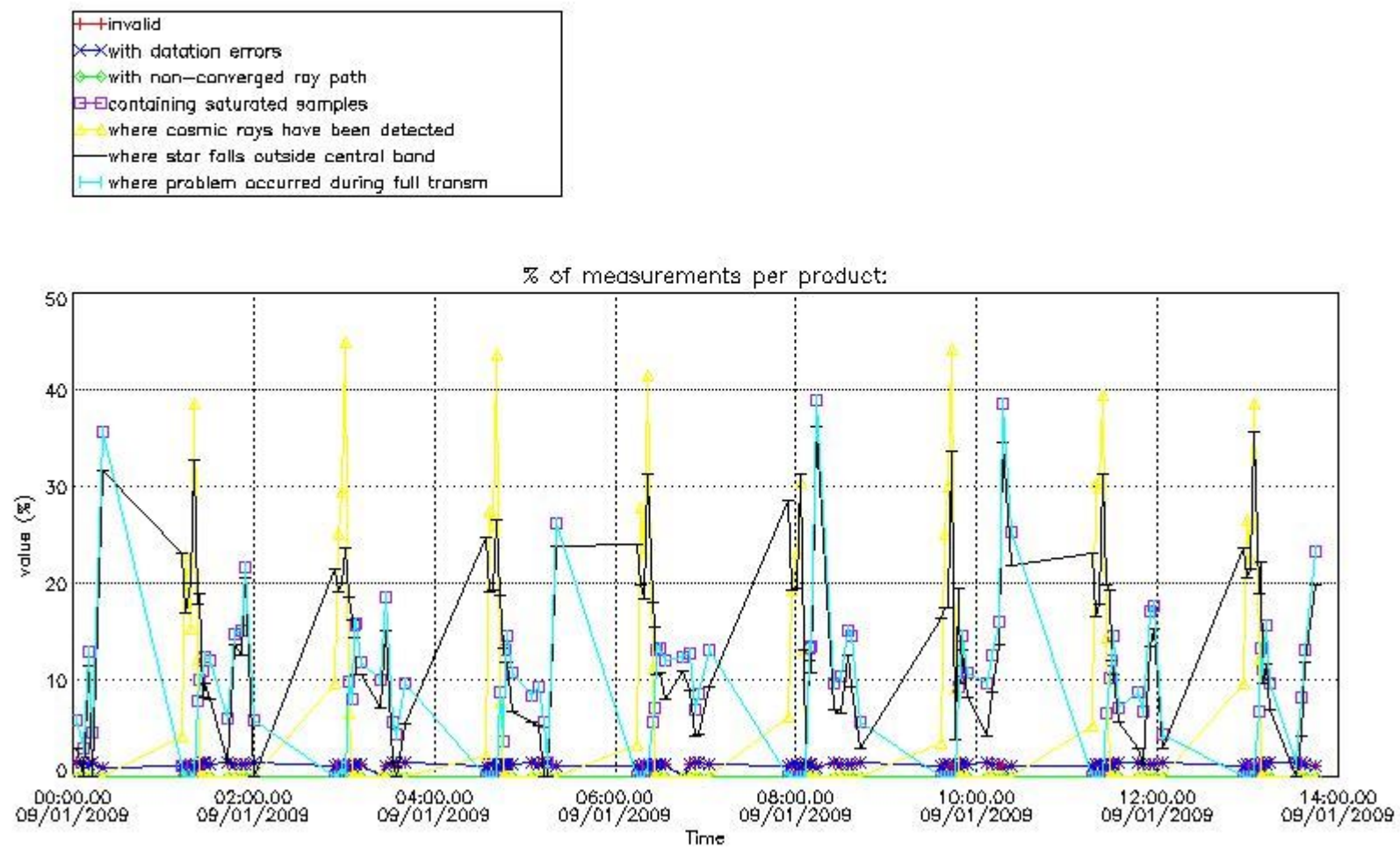
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

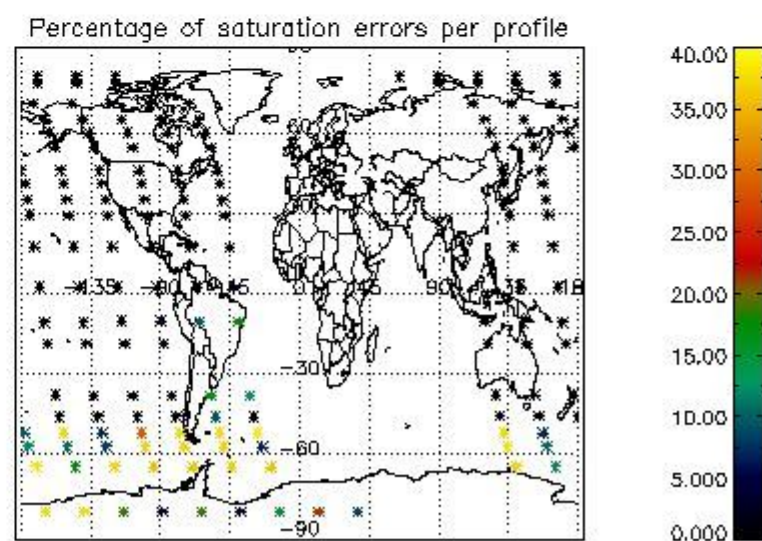
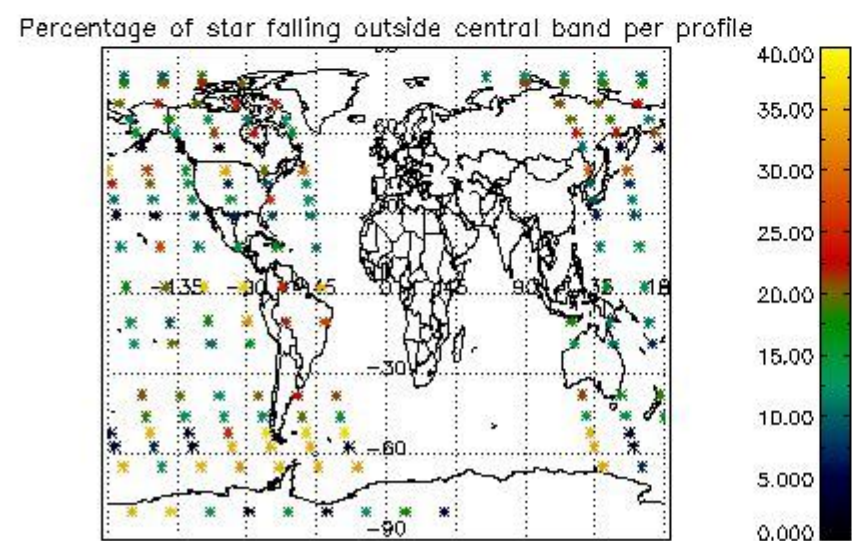
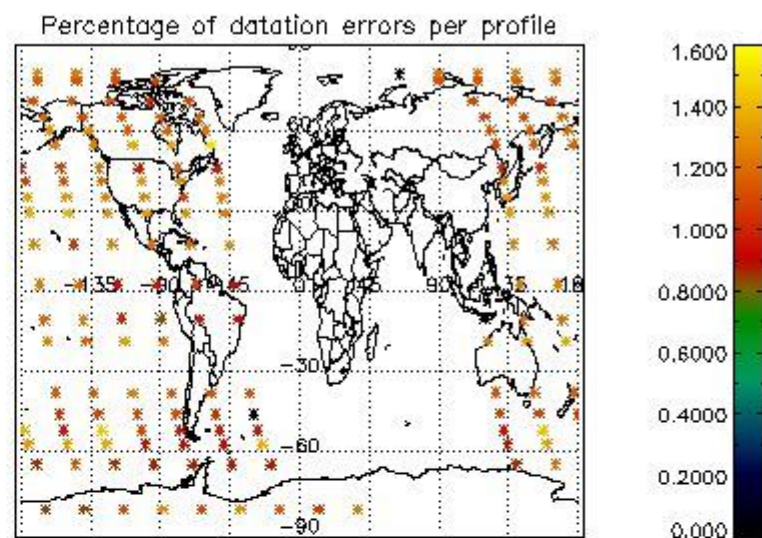
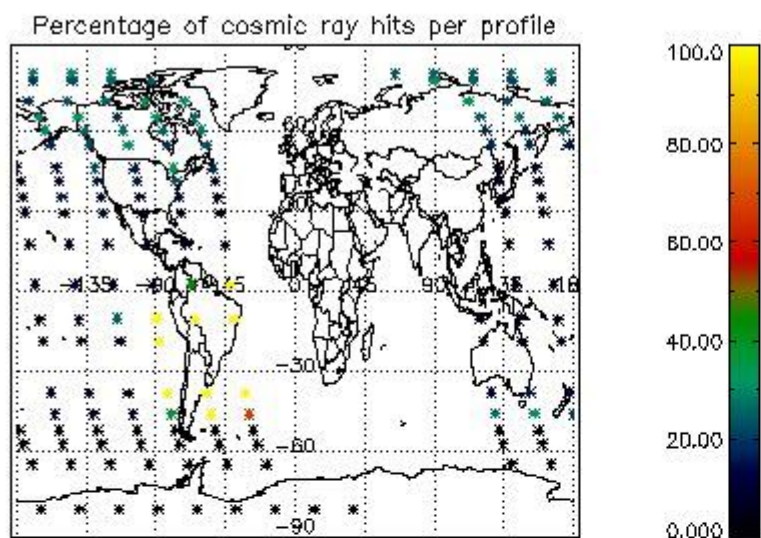
4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes



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

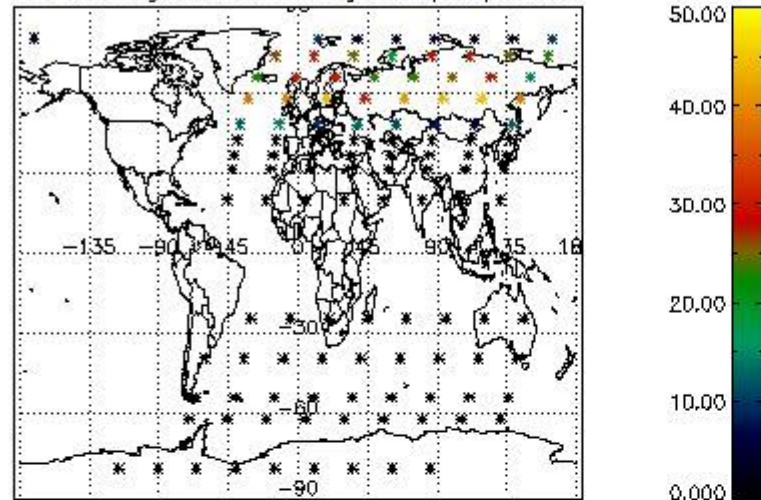


4.2 Plot quality information per product coming from level 1b processing (world map)
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

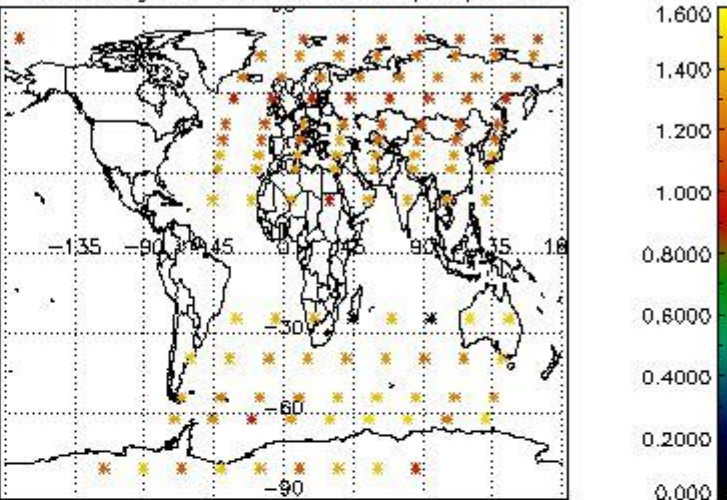


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

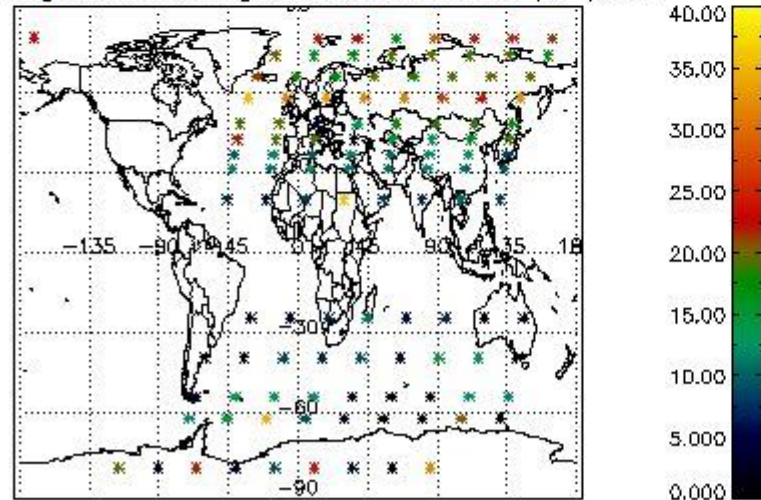
Percentage of cosmic ray hits per profile



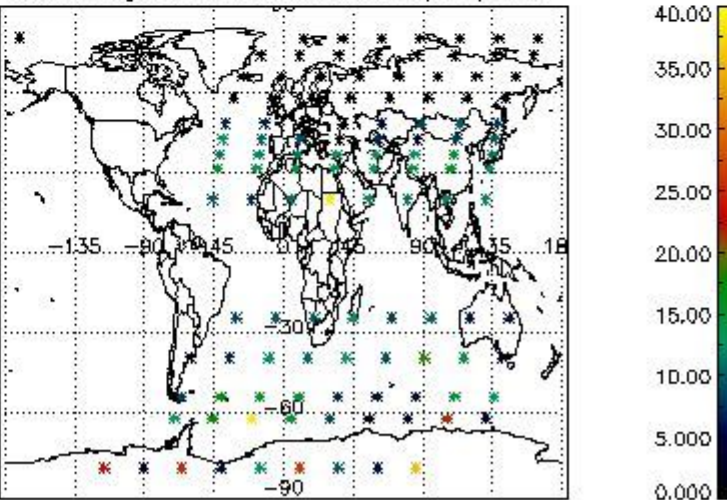
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

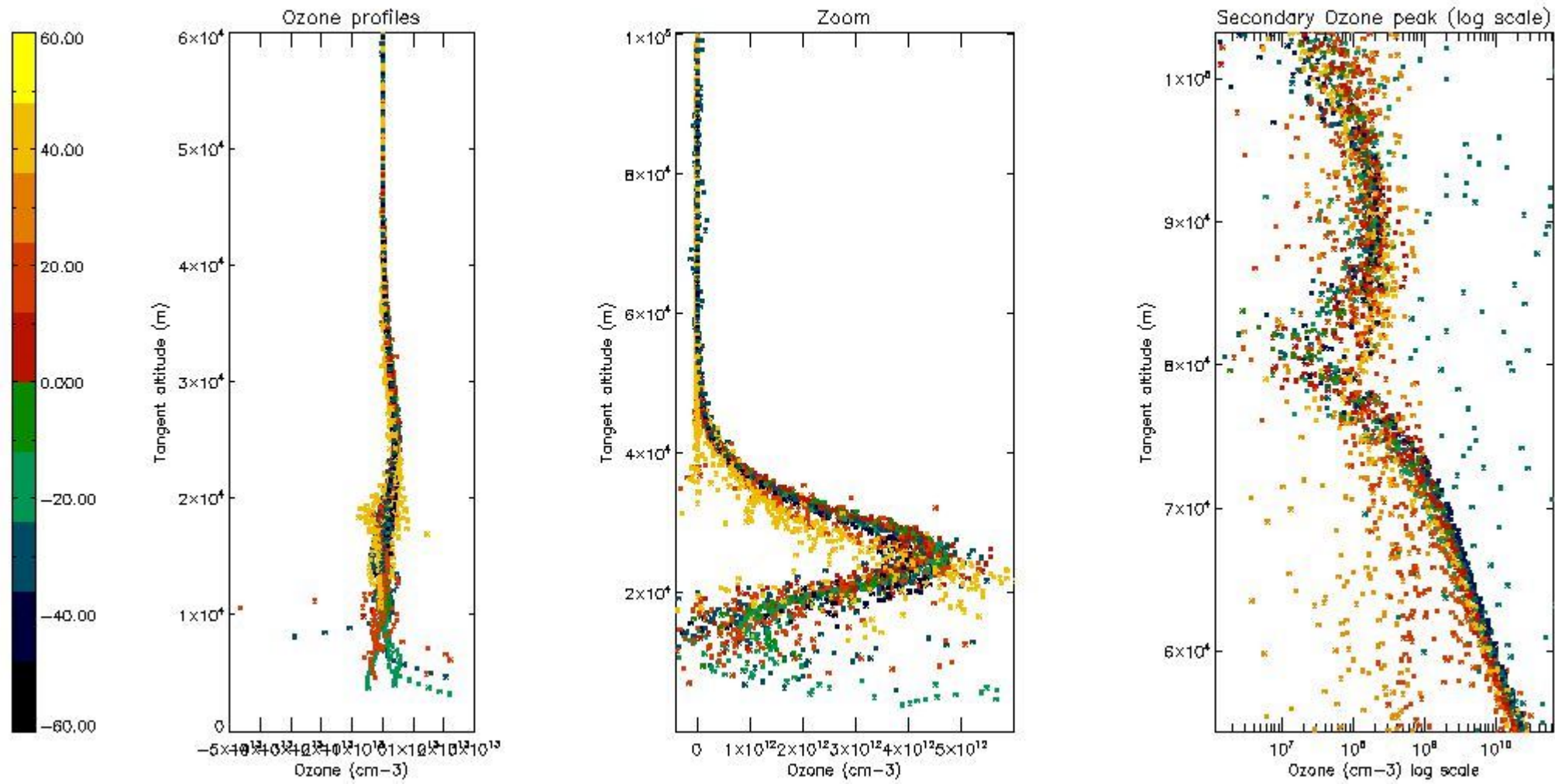
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	15

STD < 10	13
STD < 5	8

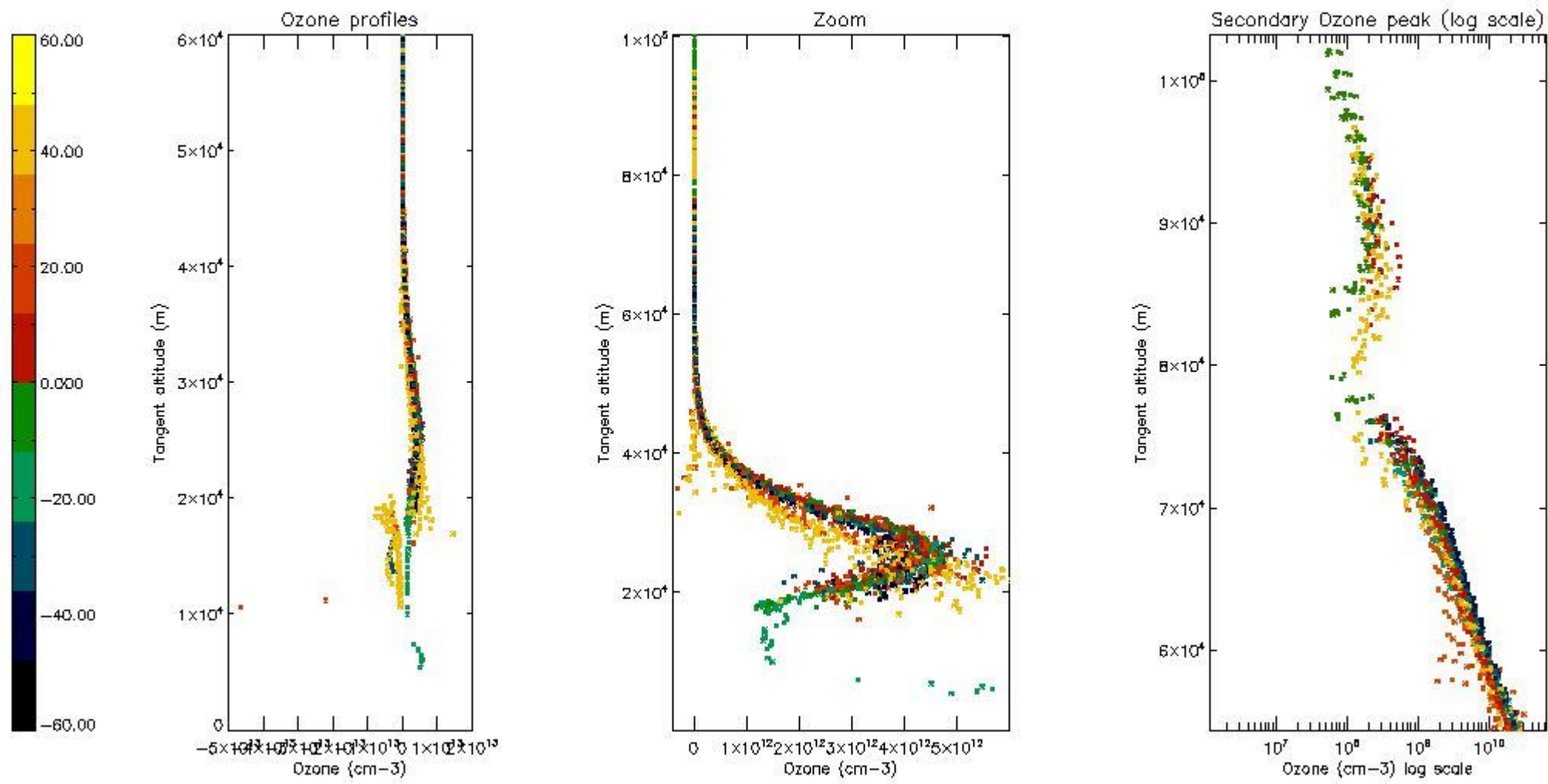
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



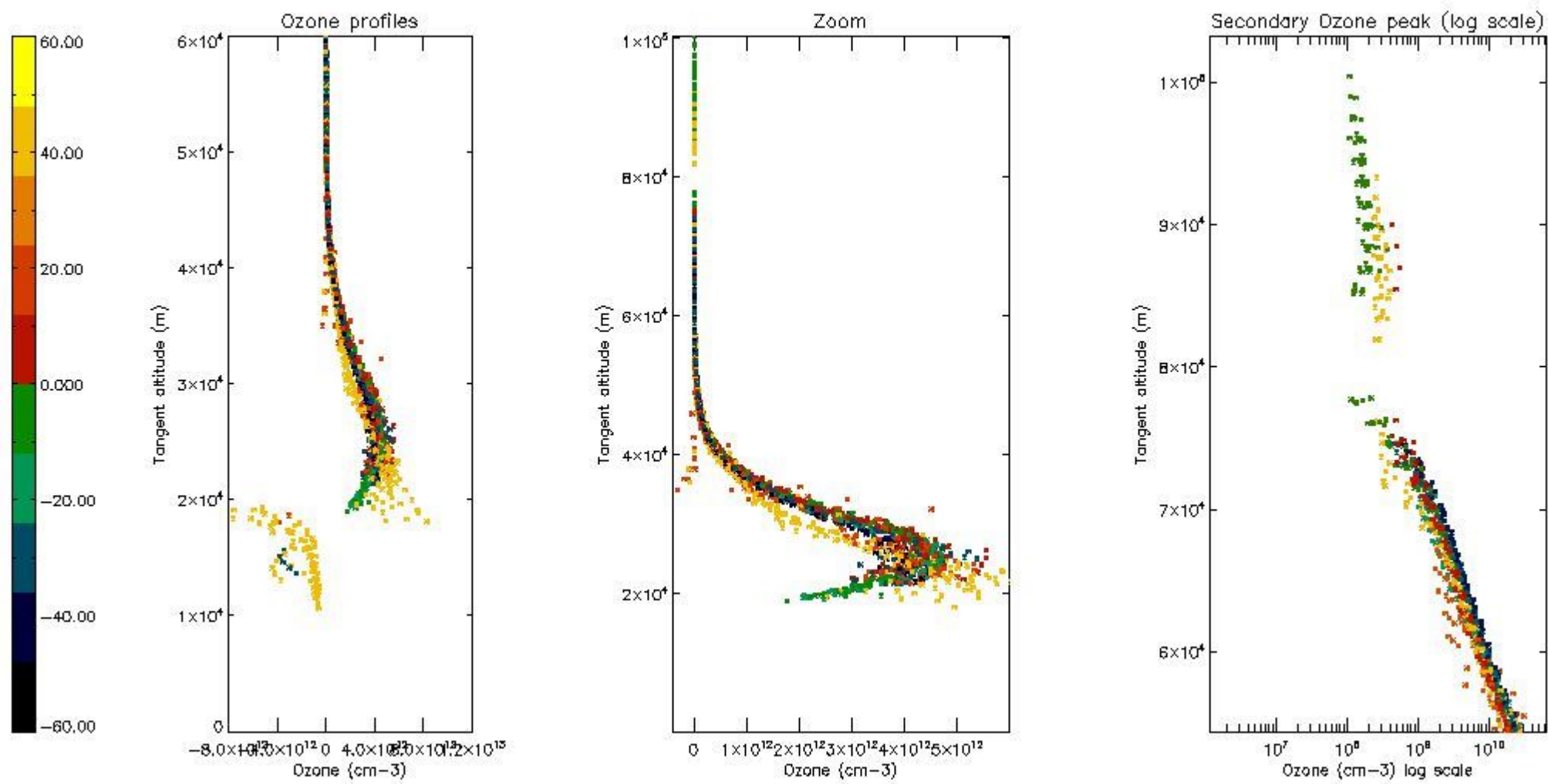
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



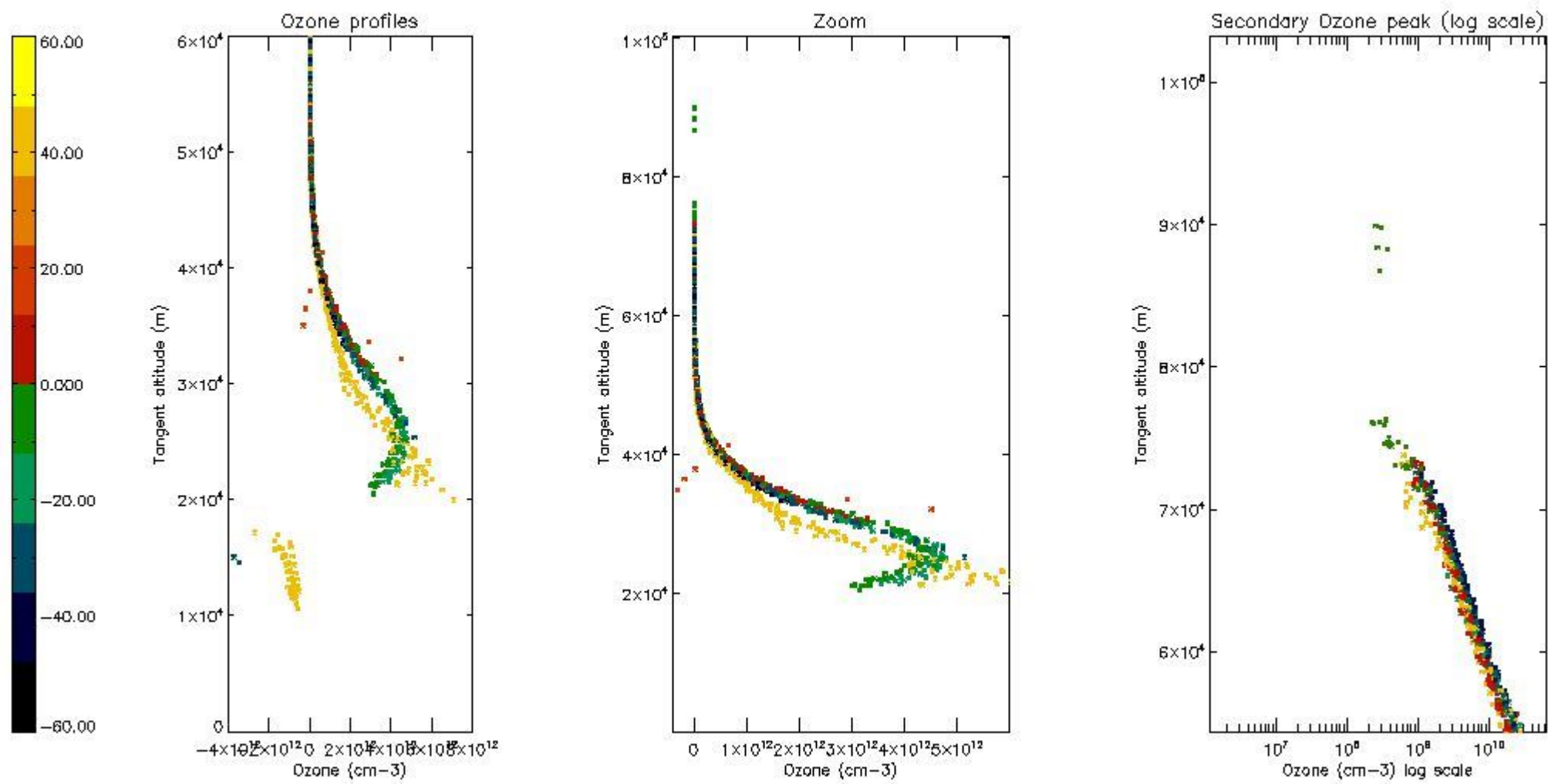
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



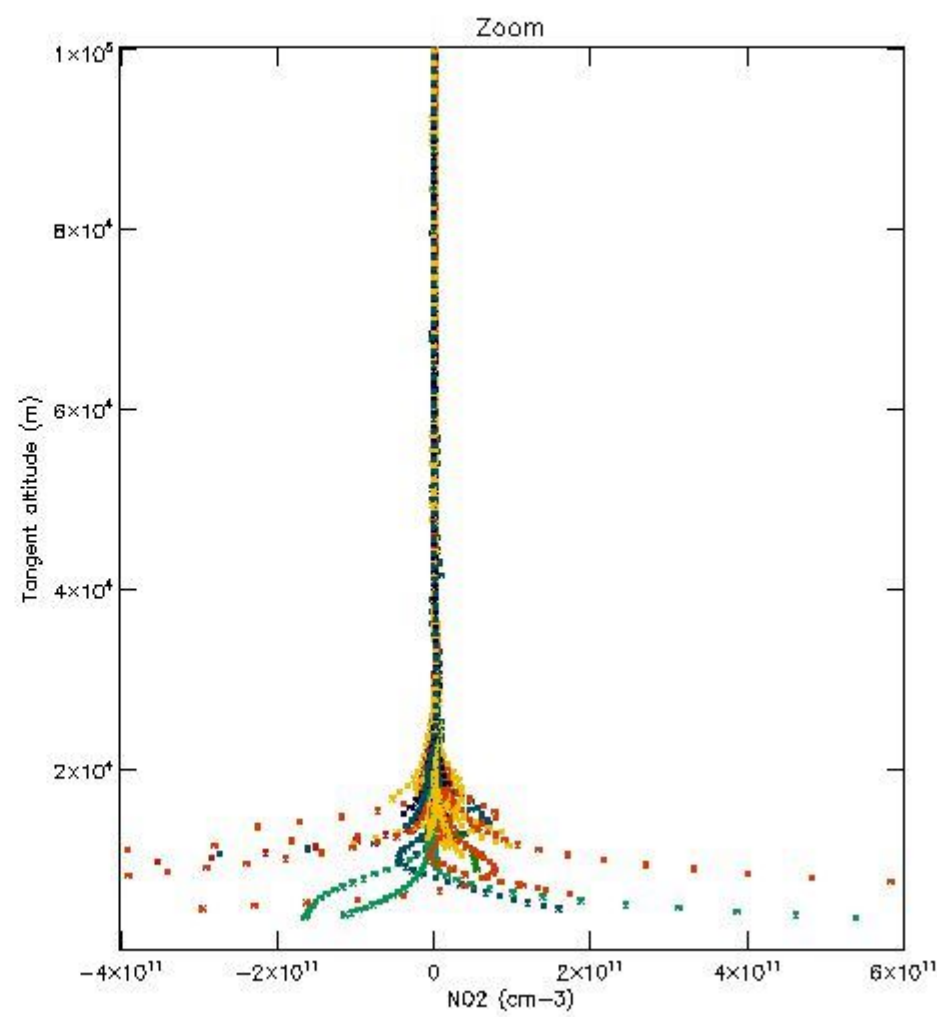
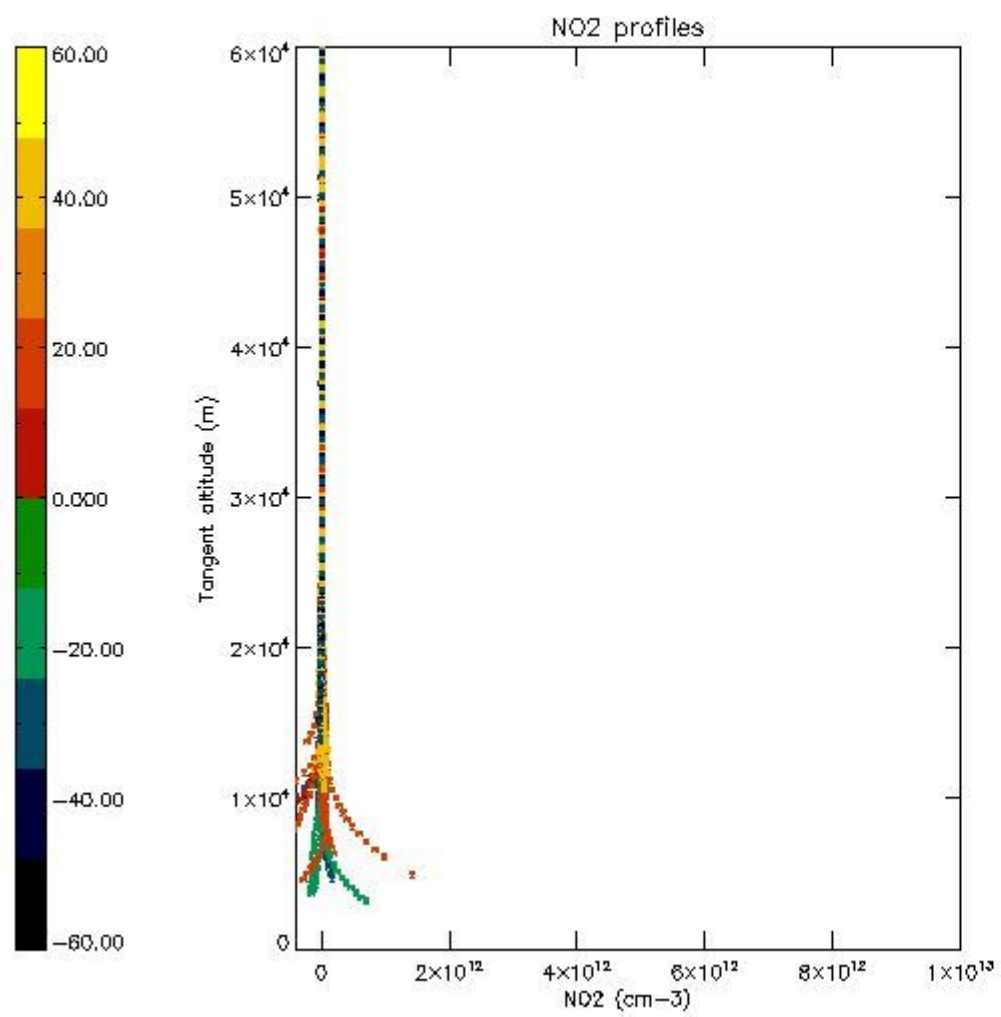
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



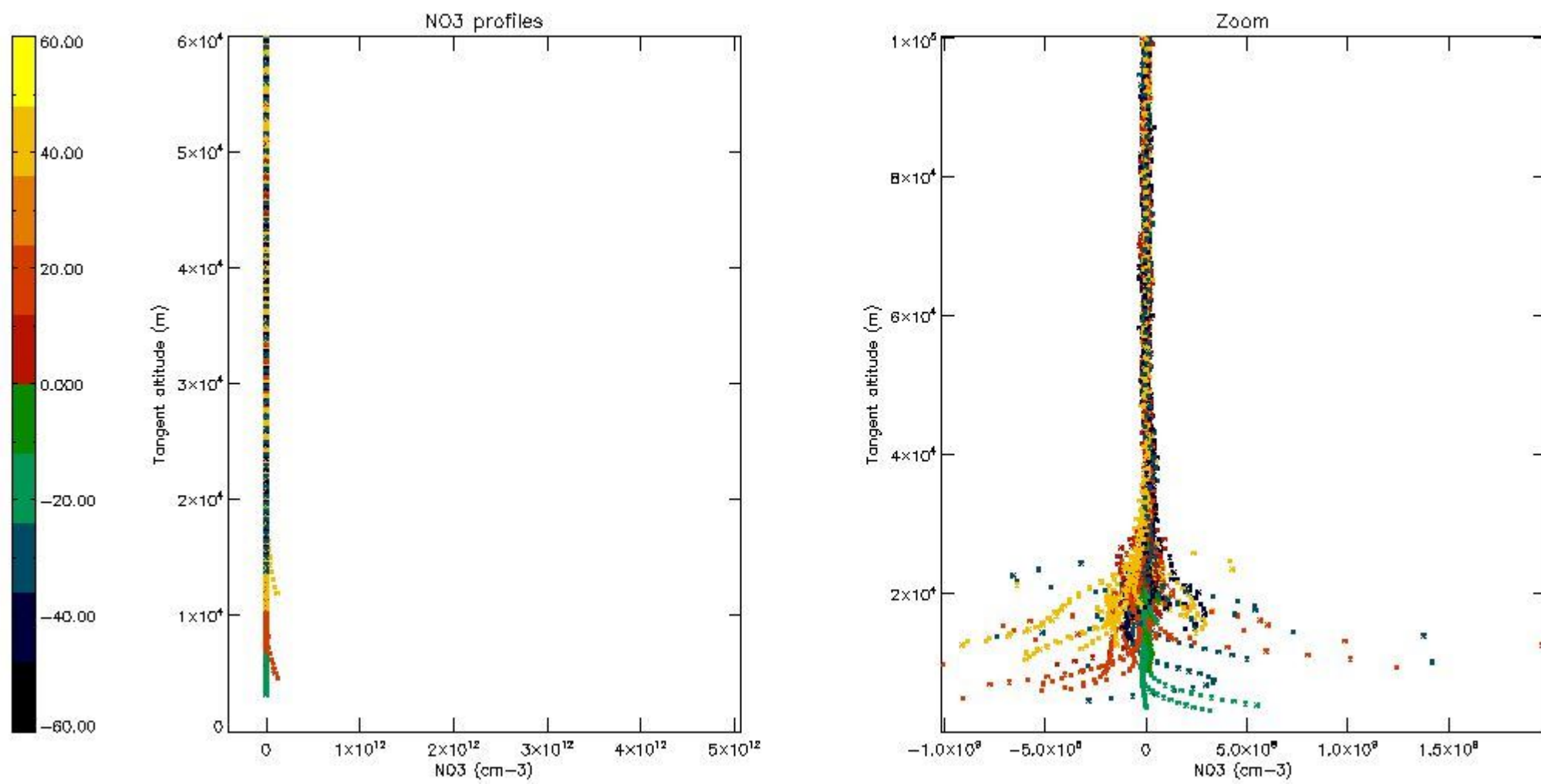
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



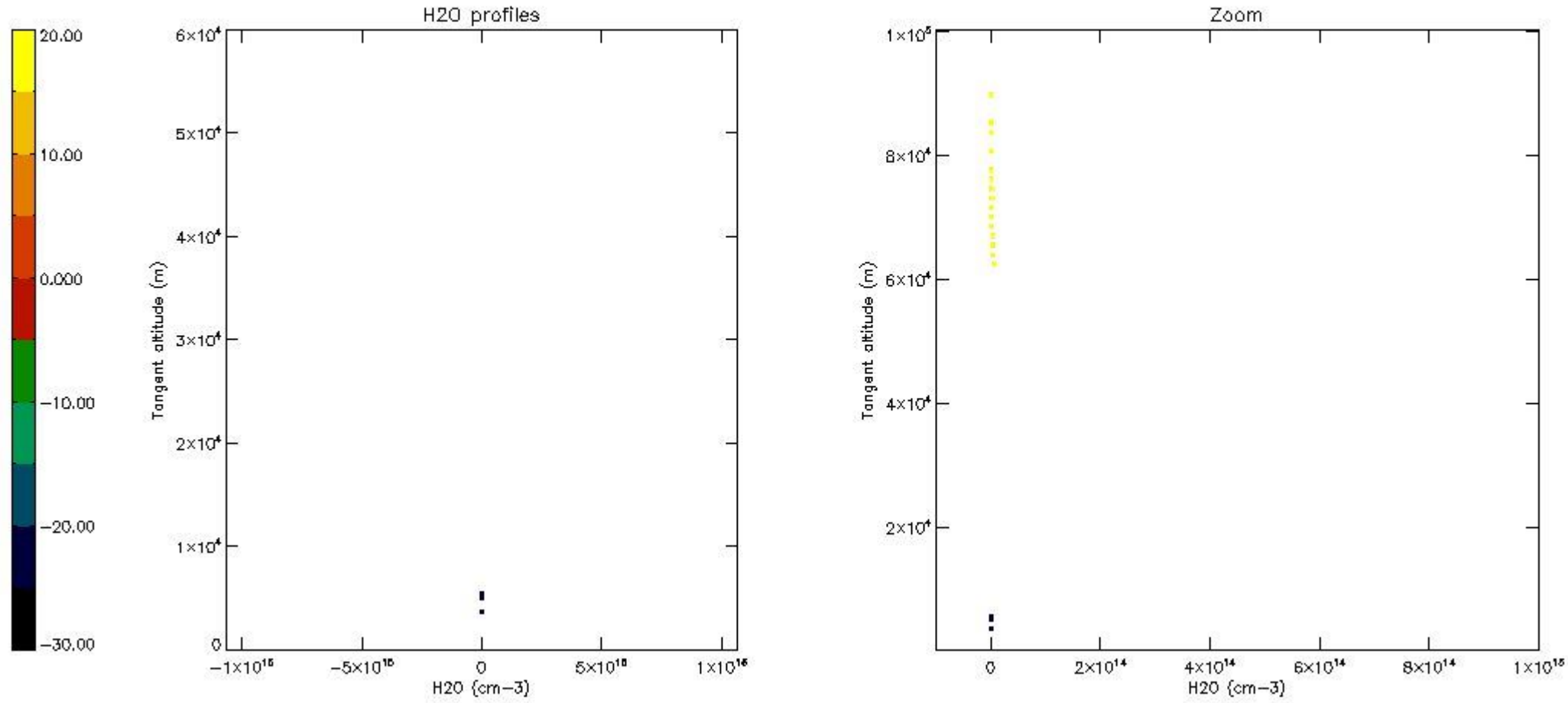
5.7 Plot NO3 profiles for all STD (dark without errors)

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	09-JAN-2009 00:02:38
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-JAN-2009 00:02:38
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-JAN-2009 00:02:38

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[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 \(dark without errors\)](#)

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

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[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](#)

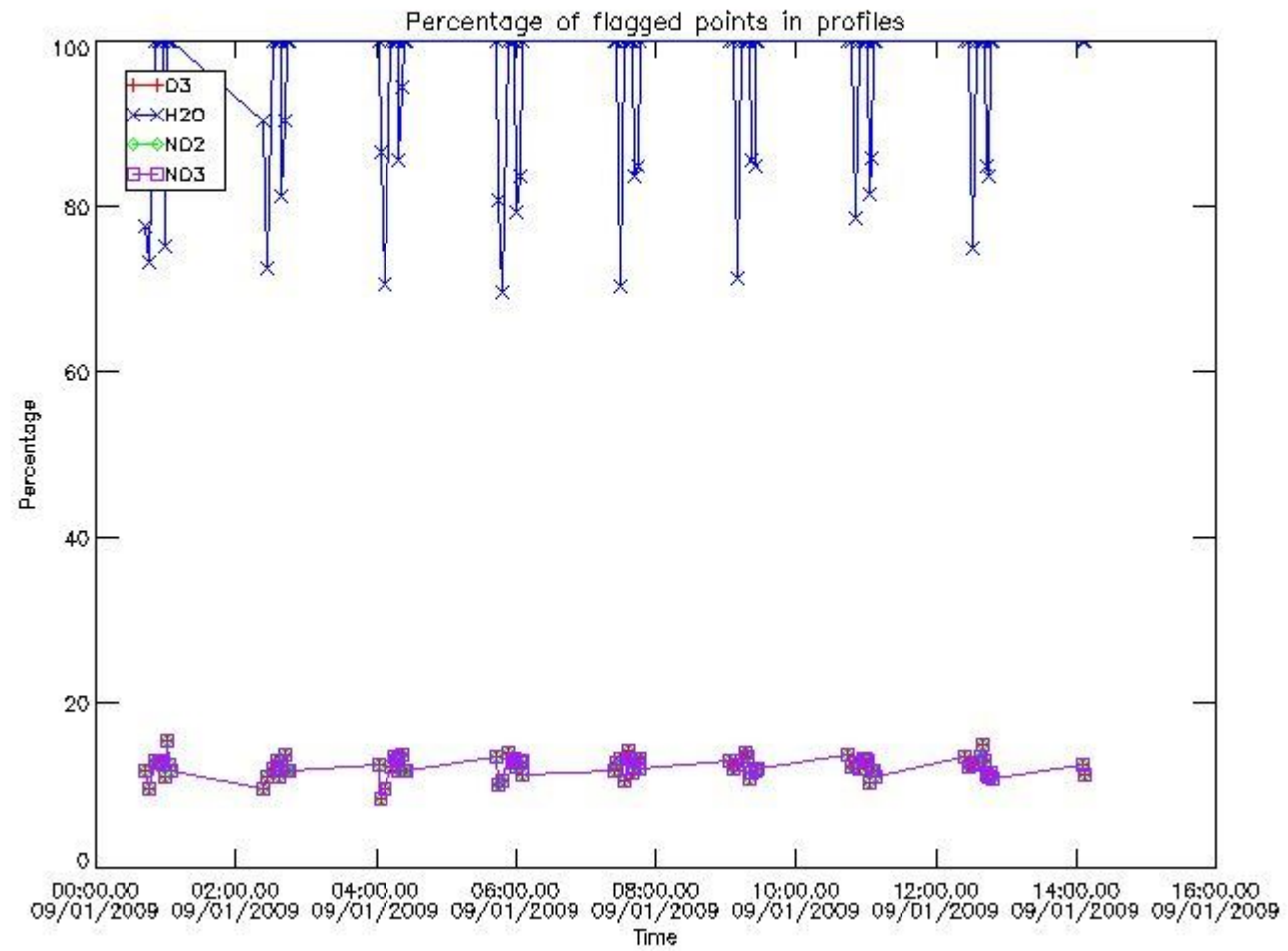
[6. Auxiliary Data Files used for the production reported in section 2](#)

279	GOM_NL__2PRFIN20090109_135803_000000472075_00253_35878_3372.N1	09-JAN-2009 13:58:03	Twilight_stray	47.000	104	27Bet Lib	2.6140	13100.	94	35878	No
280	GOM_NL__2PRFIN20090109_140018_000000452075_00253_35878_3373.N1	09-JAN-2009 14:00:18	Twilight_stray	44.500	80	7Del Sco	2.3160	30000.	89	35878	No
281	GOM_NL__2PRFIN20090109_140544_000000412075_00253_35878_3374.N1	09-JAN-2009 14:05:44	Dark	41.000	131	Gamma Lup	2.8000	26000.	82	35878	No
282	GOM_NL__2PRFIN20090109_140758_000000452075_00253_35878_3375.N1	09-JAN-2009 14:07:58	Dark	44.500	81	Eta Cen	2.3560	28000.	89	35878	No

3. Quality information per product

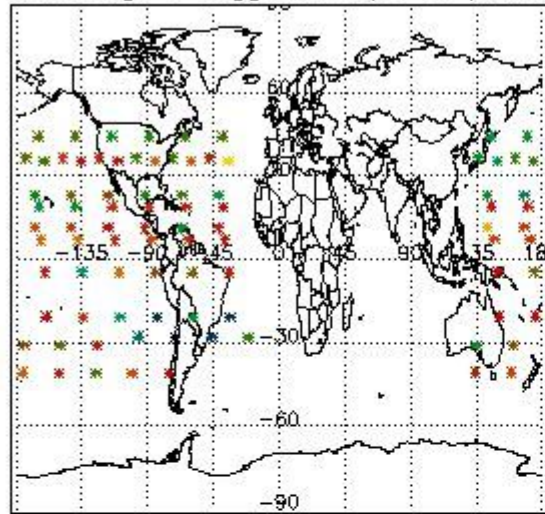
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

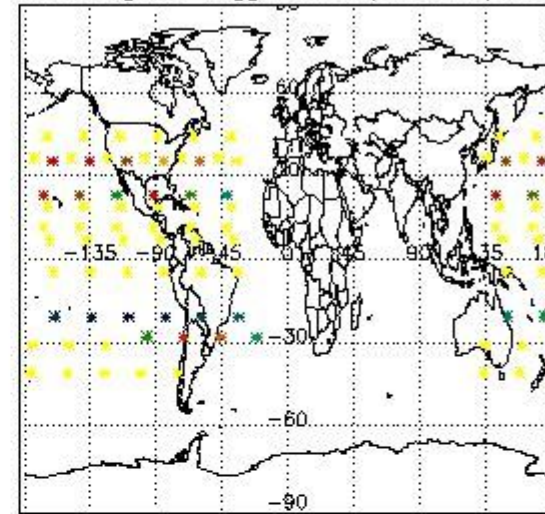


3.2 Plot quality information per product (world map)

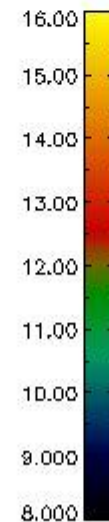
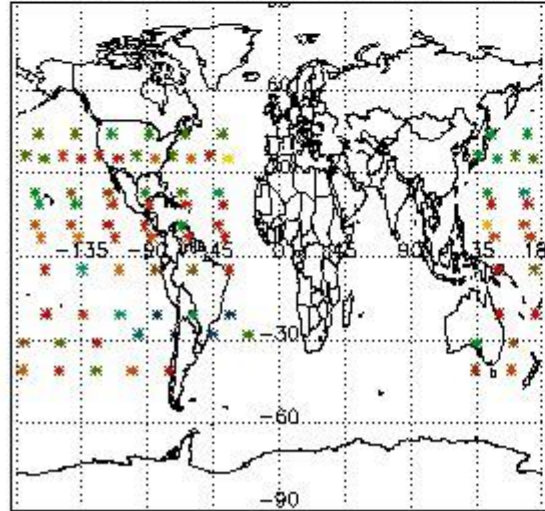
Percentage of flagged data per O3 profile



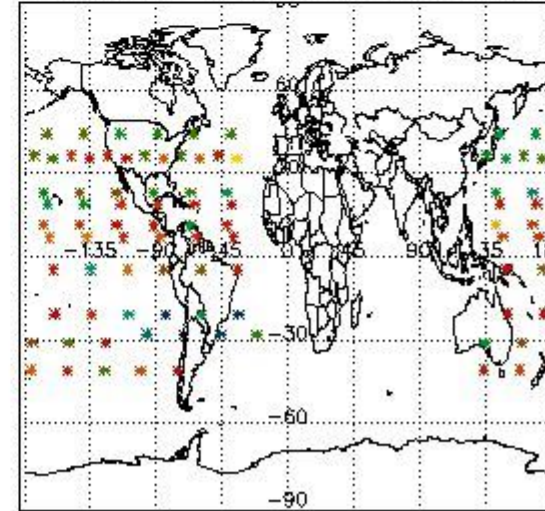
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

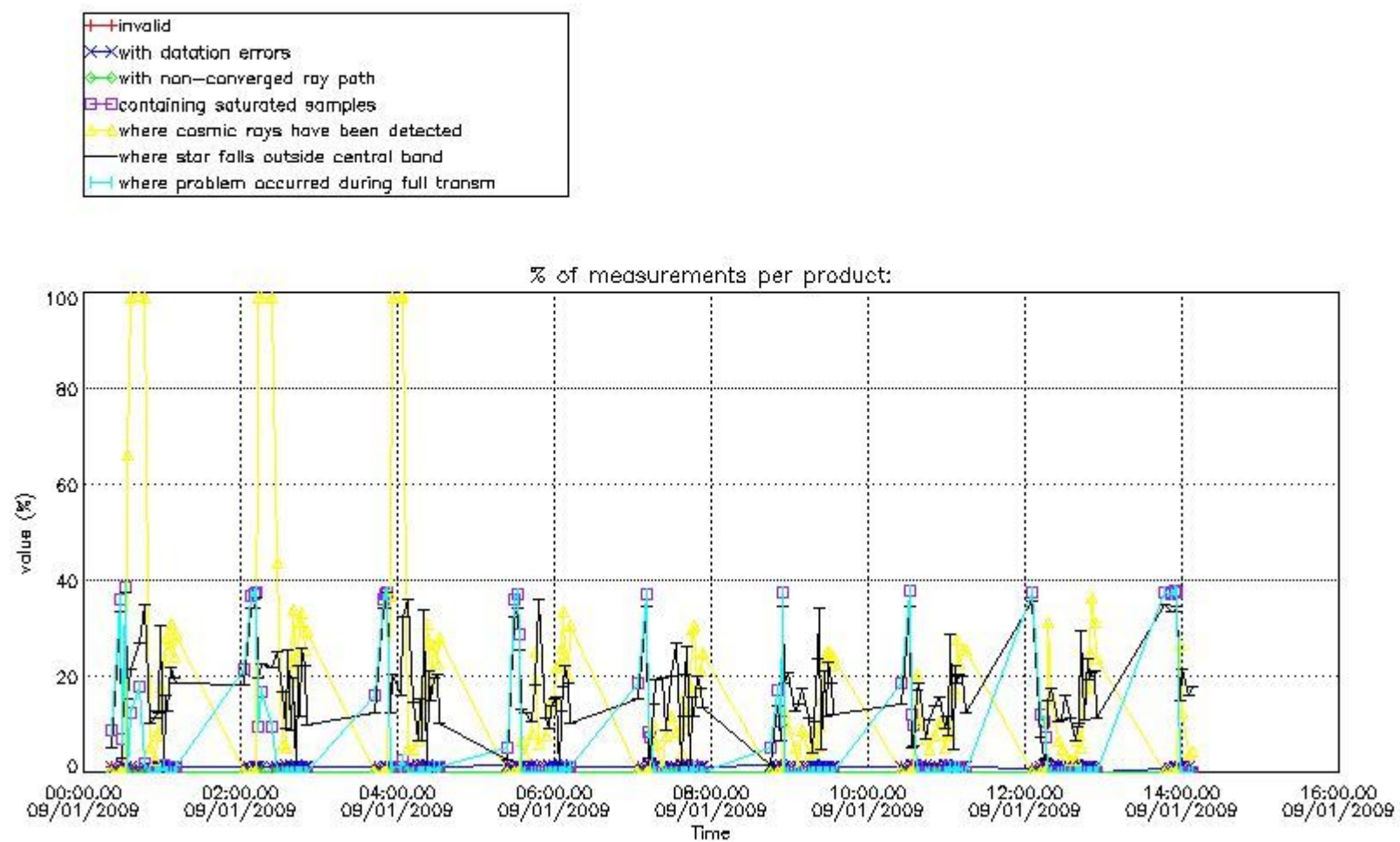


4. Level 1 quality information per product

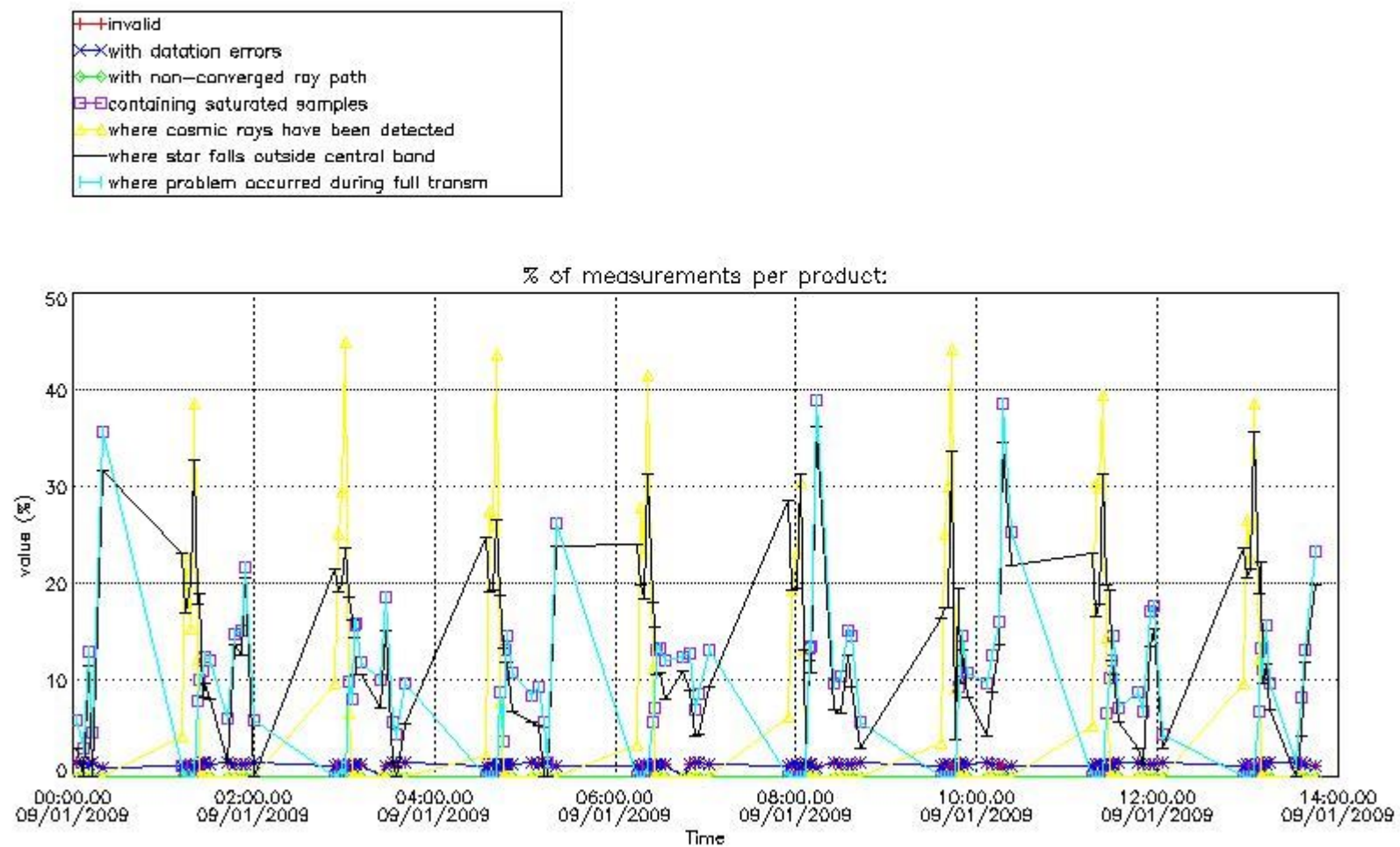
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

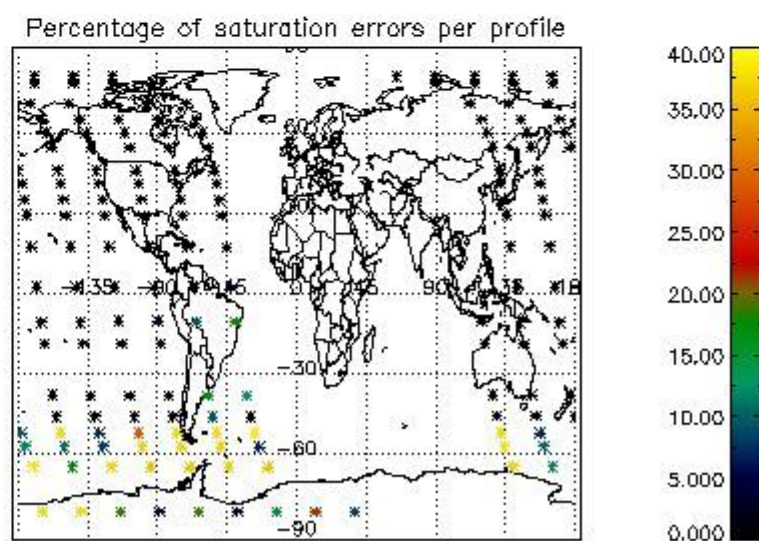
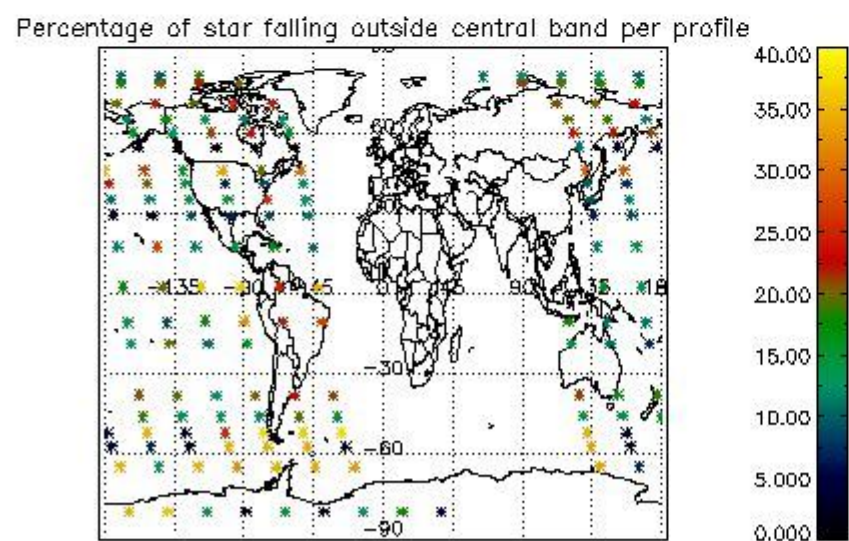
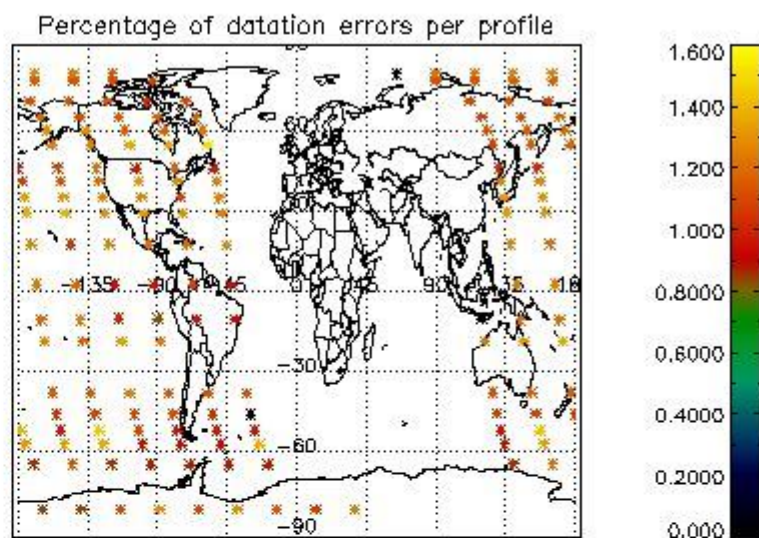
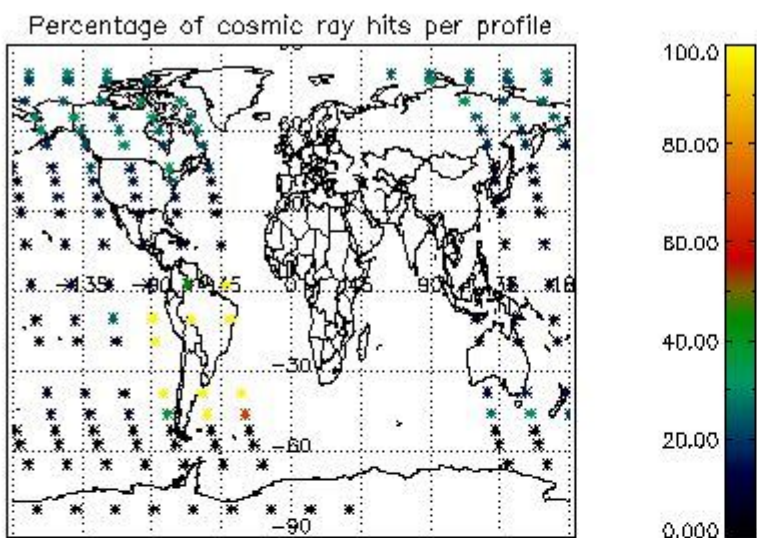


4.1.2 Plot level 1 quality information per product (time dependant): ENVI-SAT DESCENDING passes

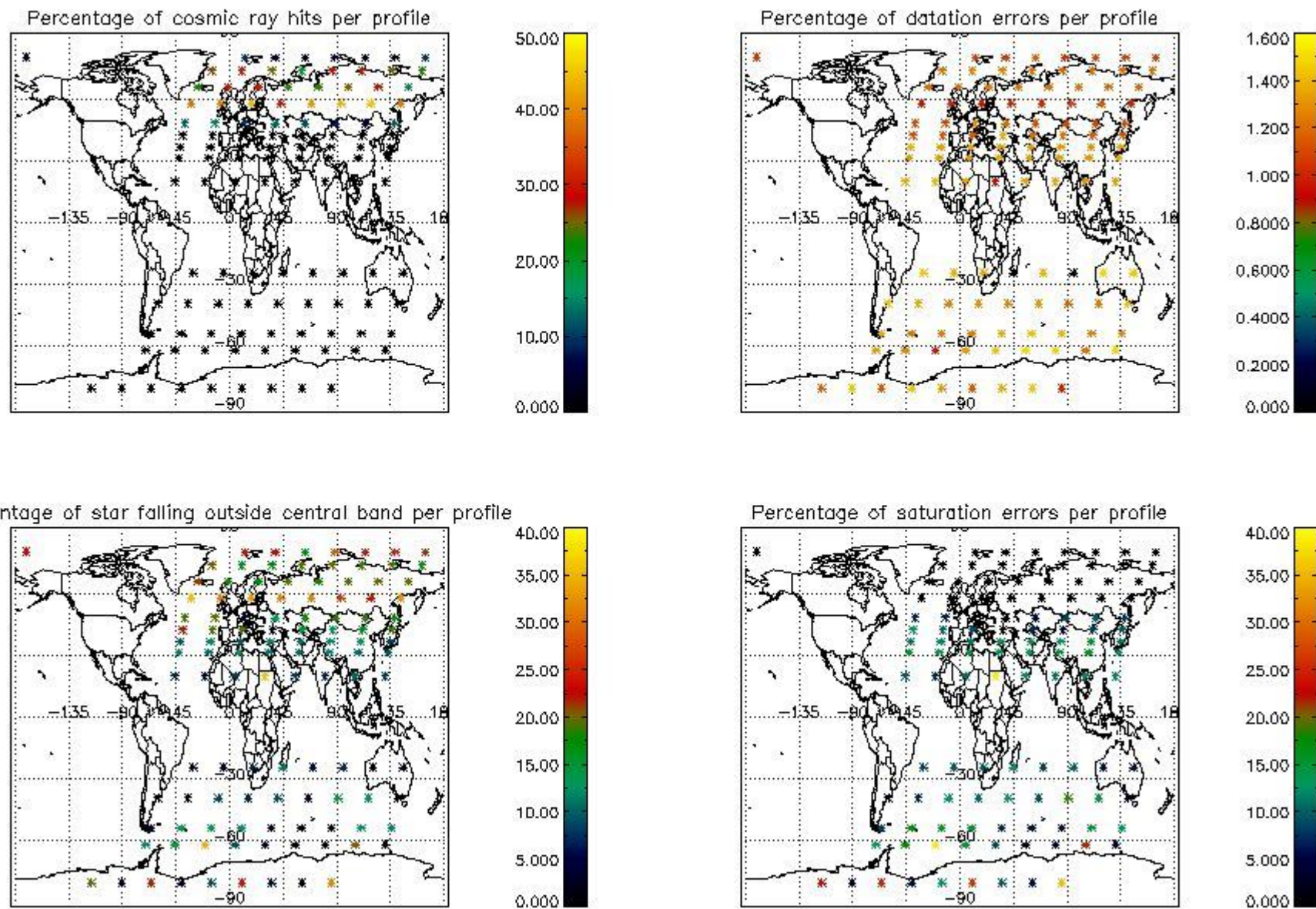


4.2 Plot quality information per product coming from level 1b processing (world map)

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

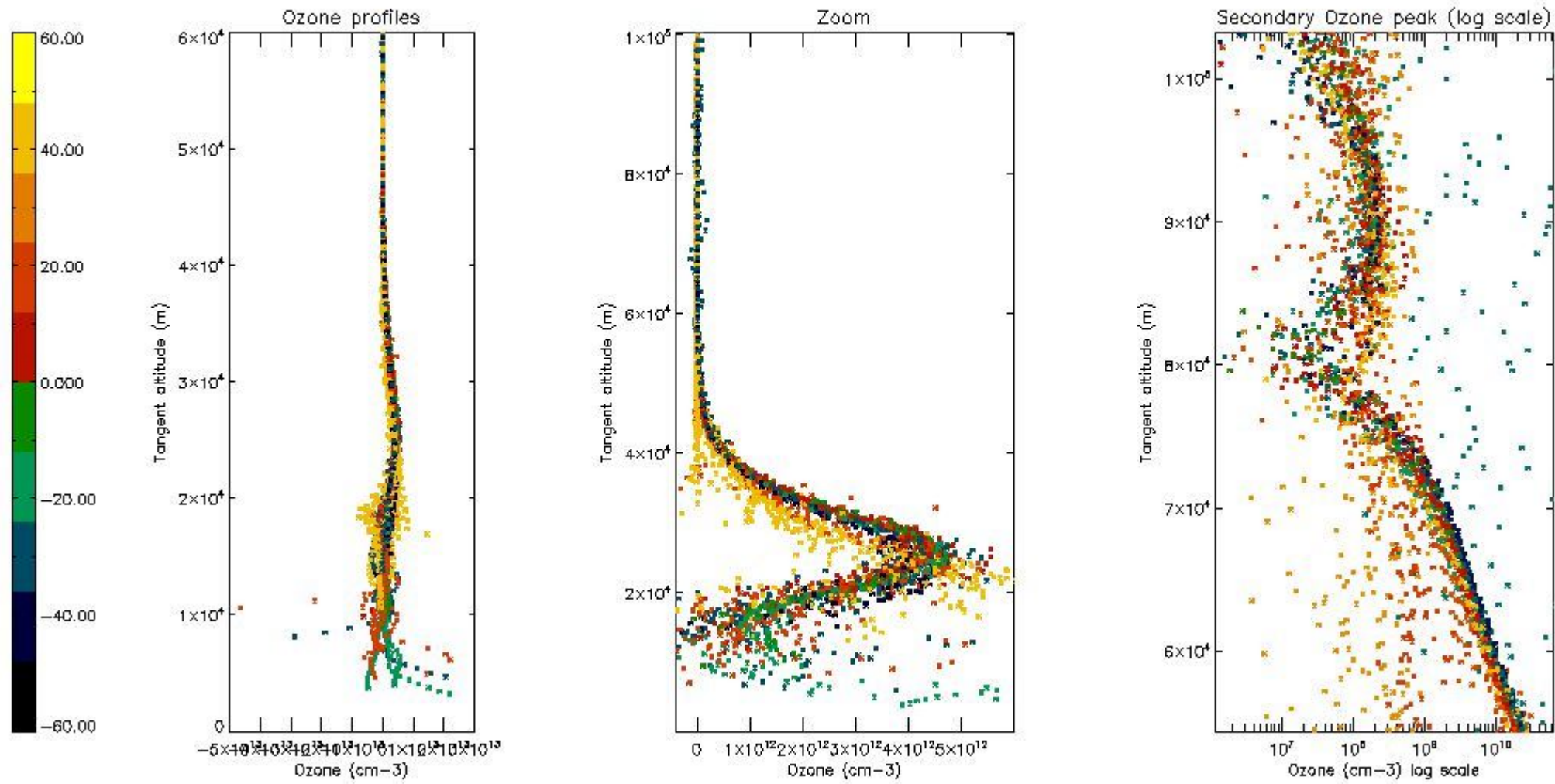
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	15

STD < 10	13
STD < 5	8

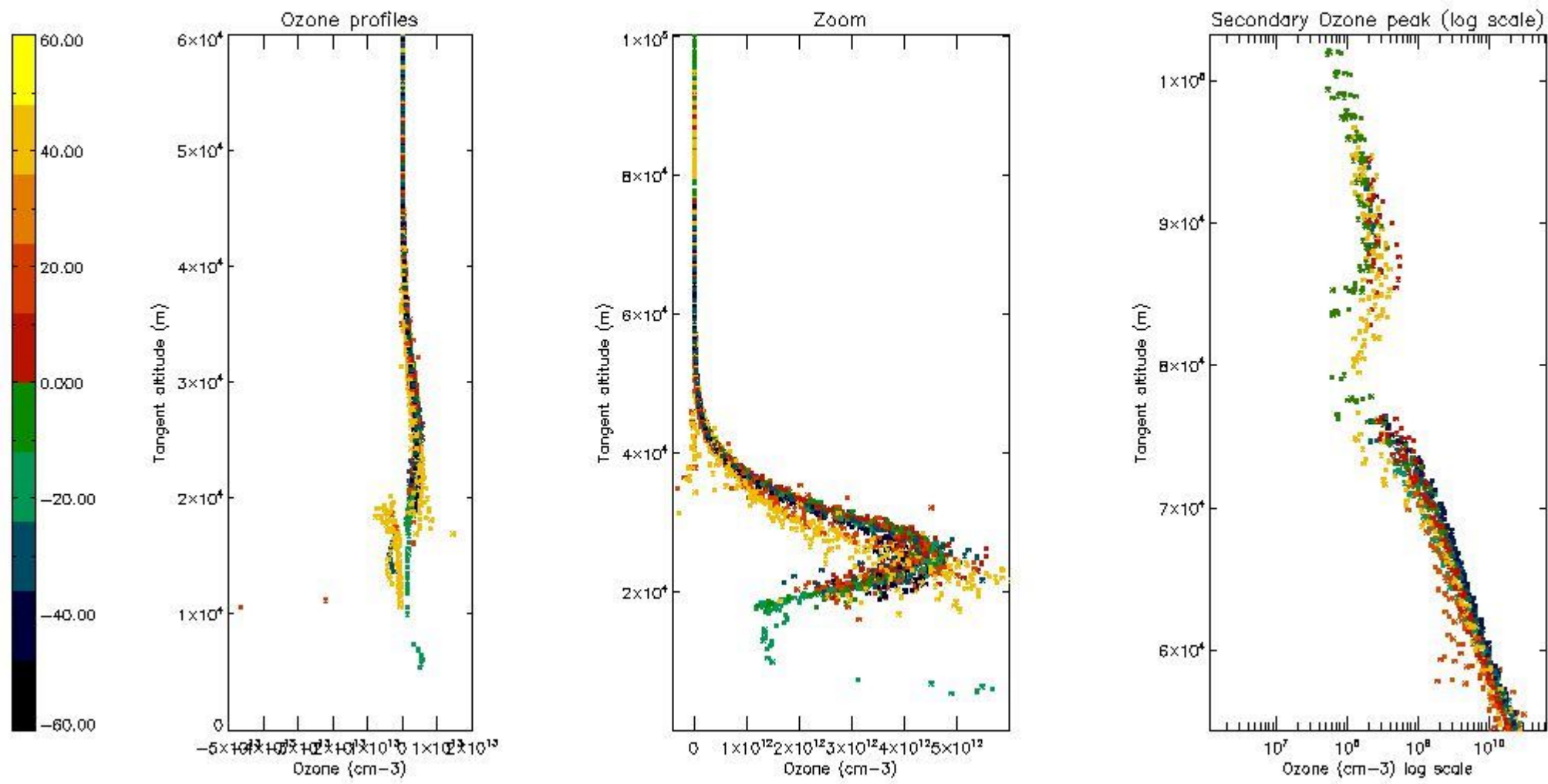
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



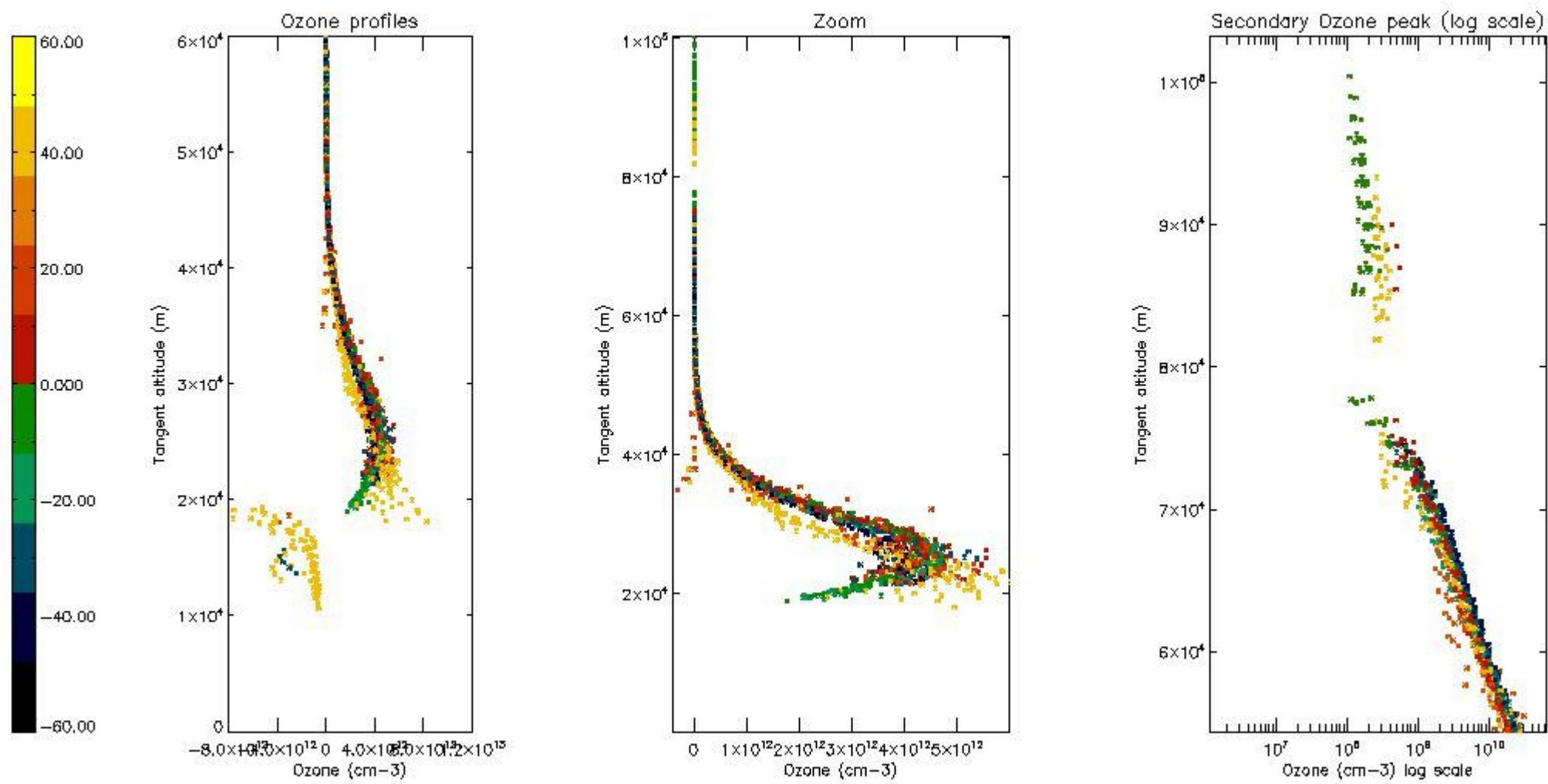
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



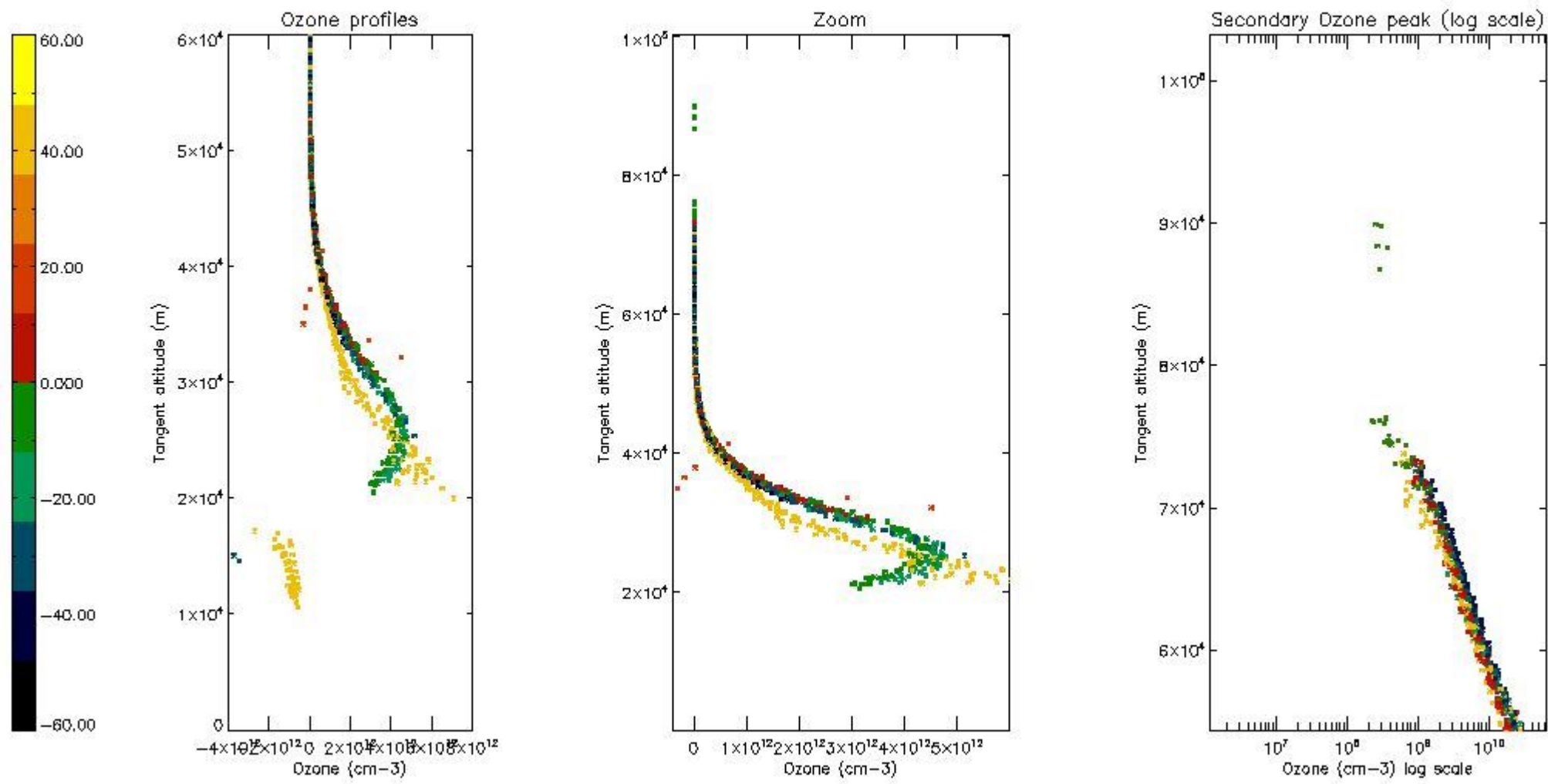
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



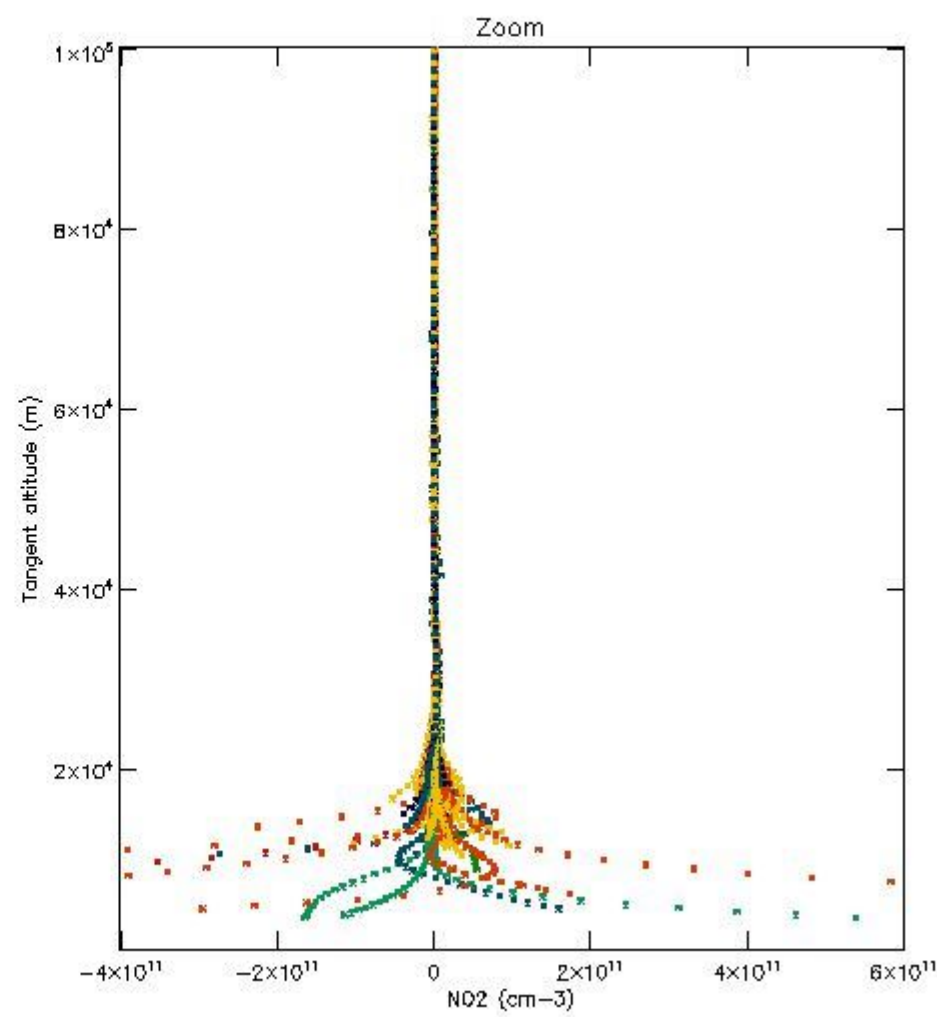
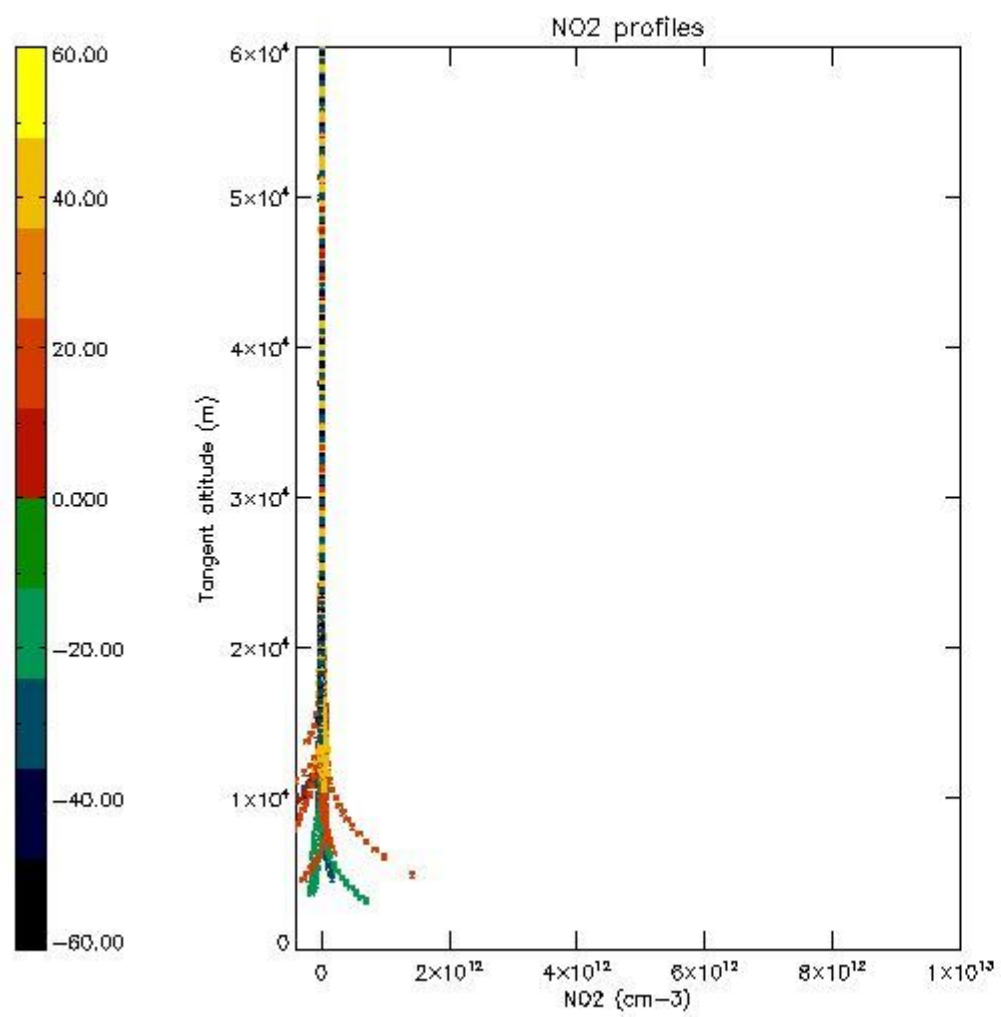
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



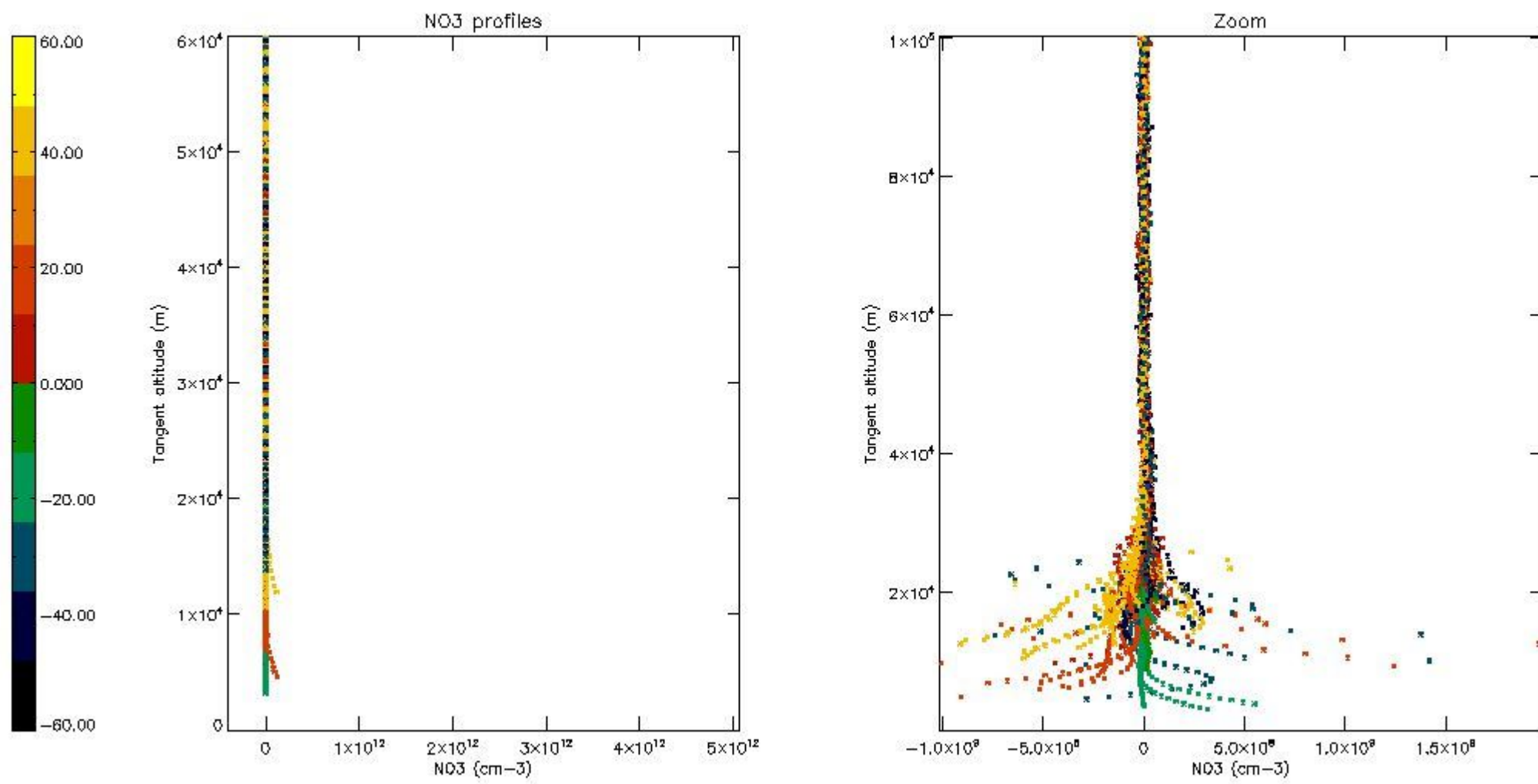
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



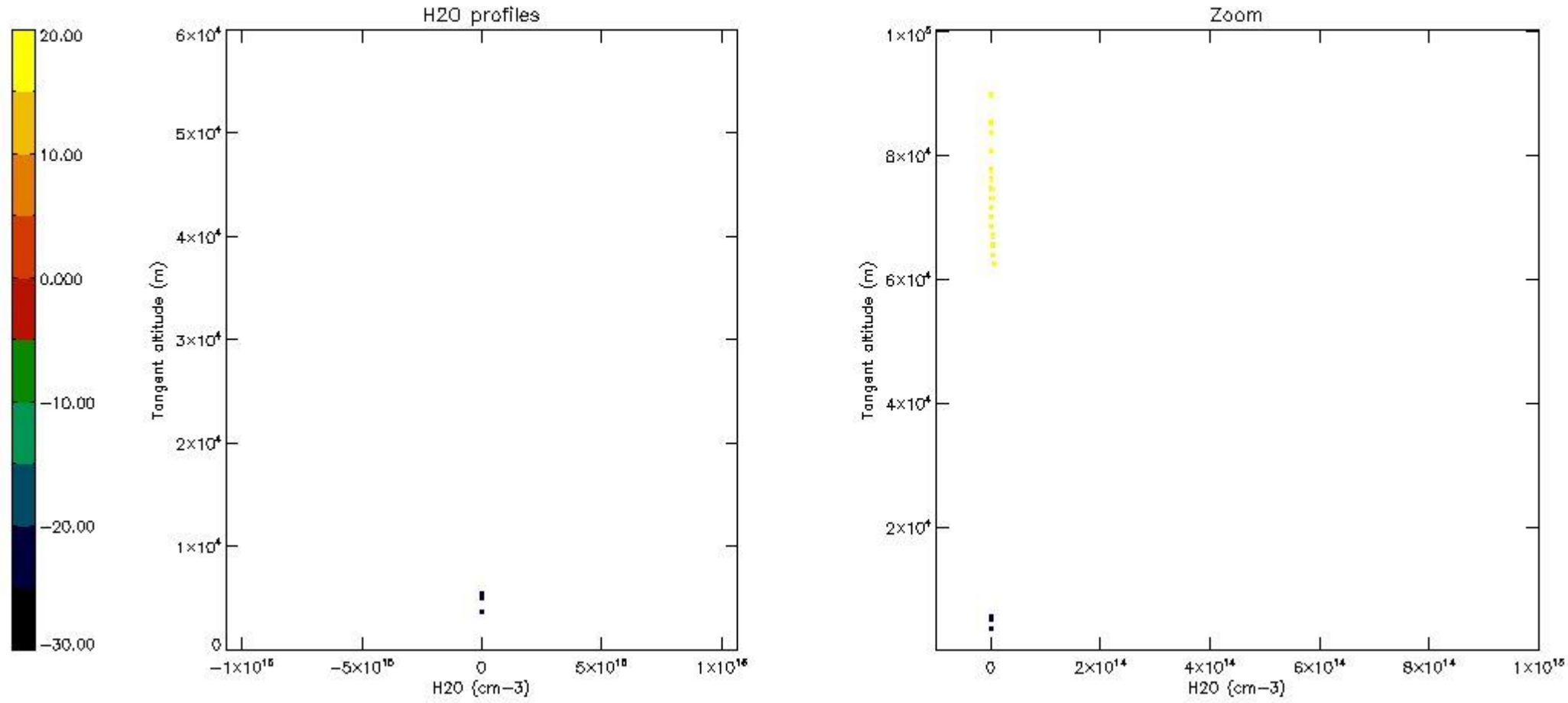
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

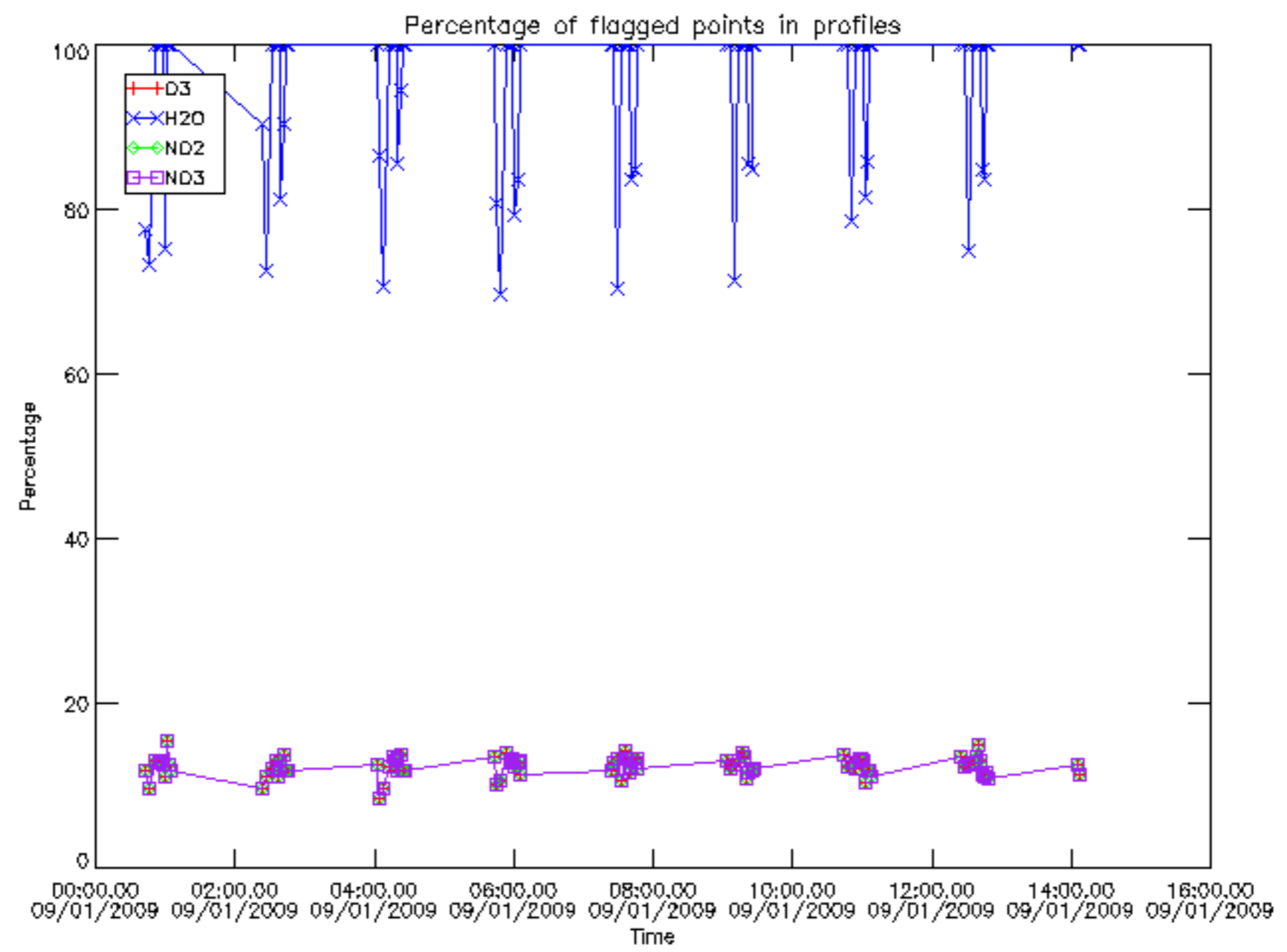
The colorbar represents the latitude.



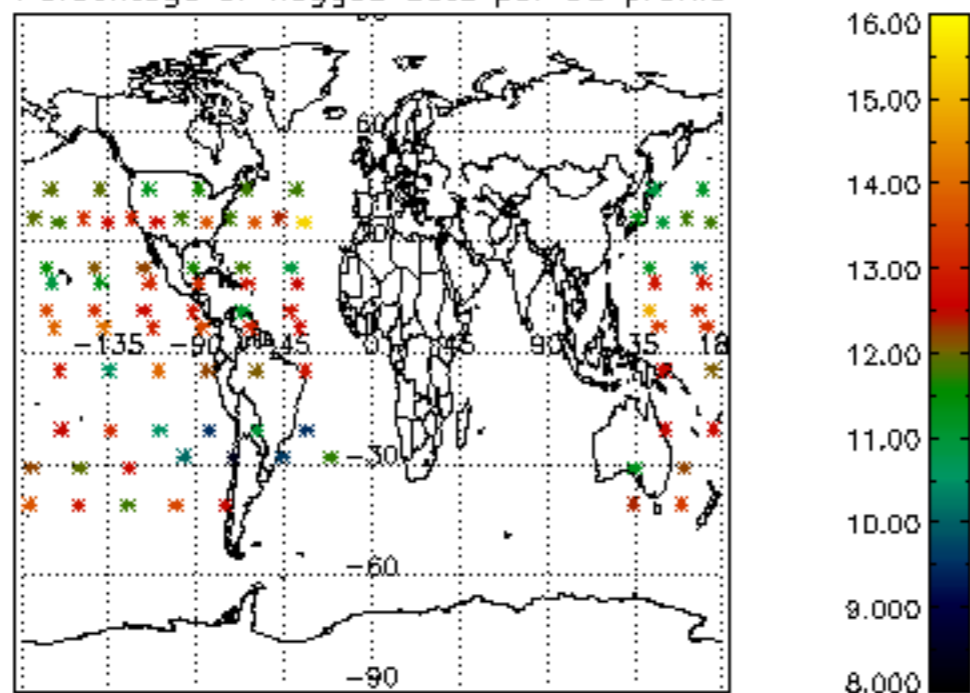
6. Auxiliary Data Files used for the production reported in section 2

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.

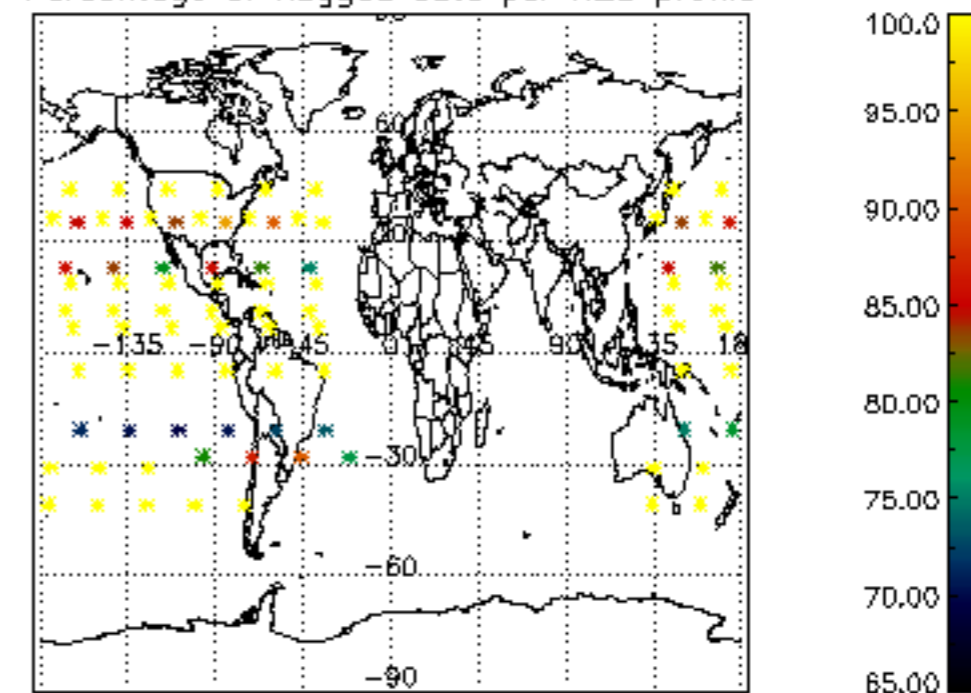
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-JAN-2009 00:02:38
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-JAN-2009 00:02:38
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-JAN-2009 00:02:38



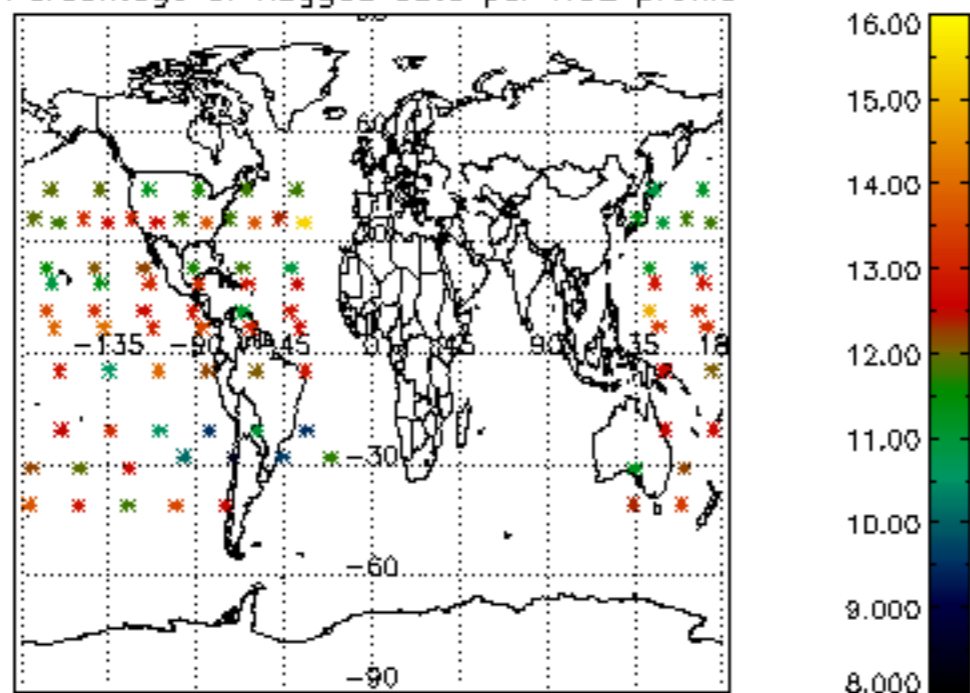
Percentage of flagged data per D3 profile



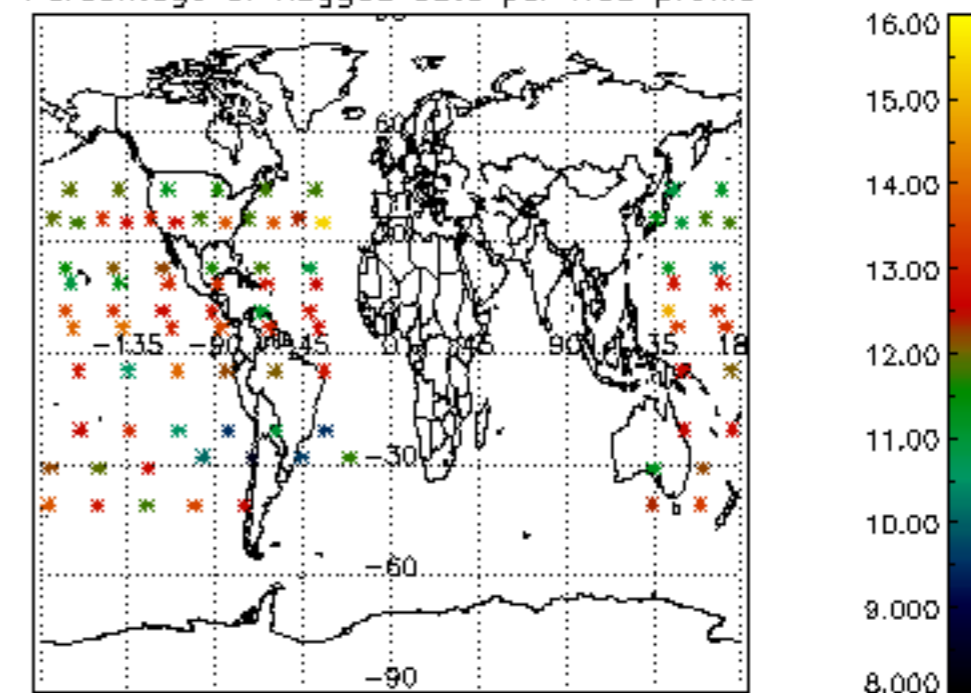
Percentage of flagged data per H2O profile

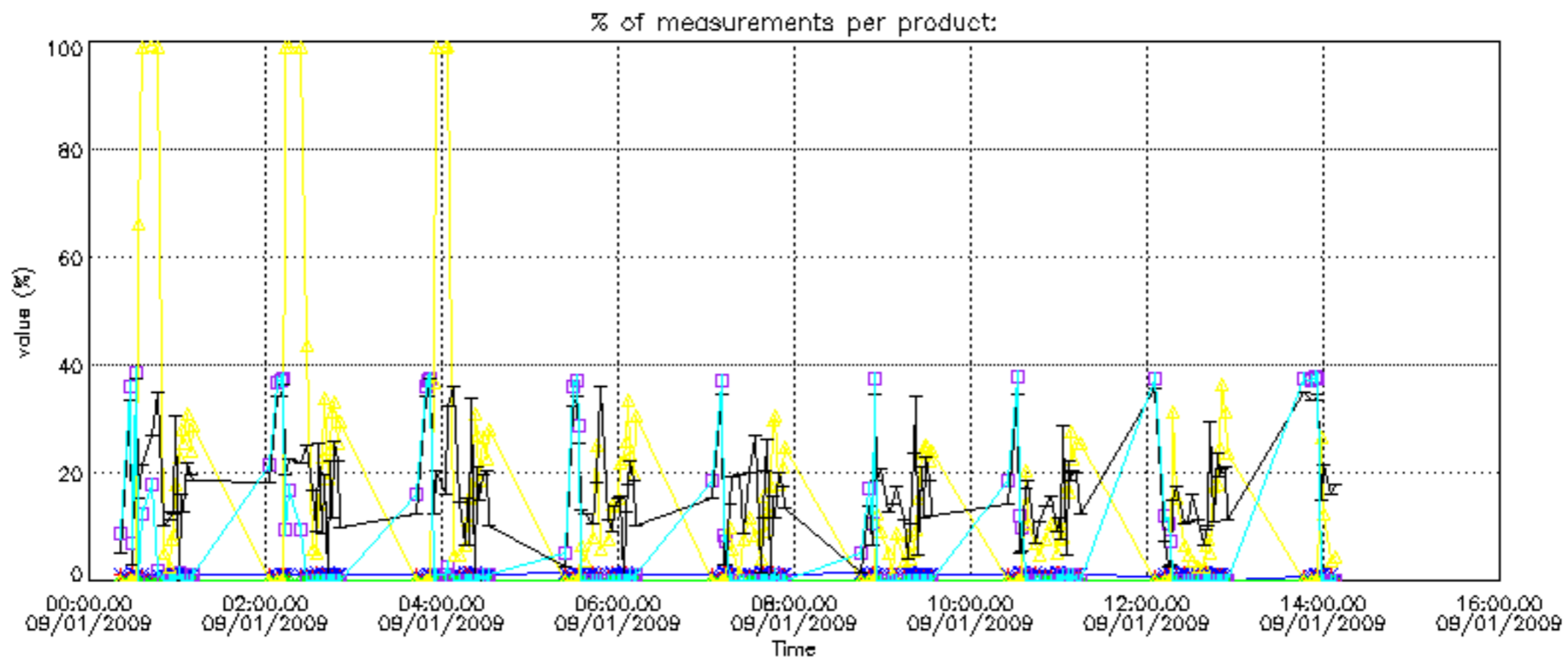


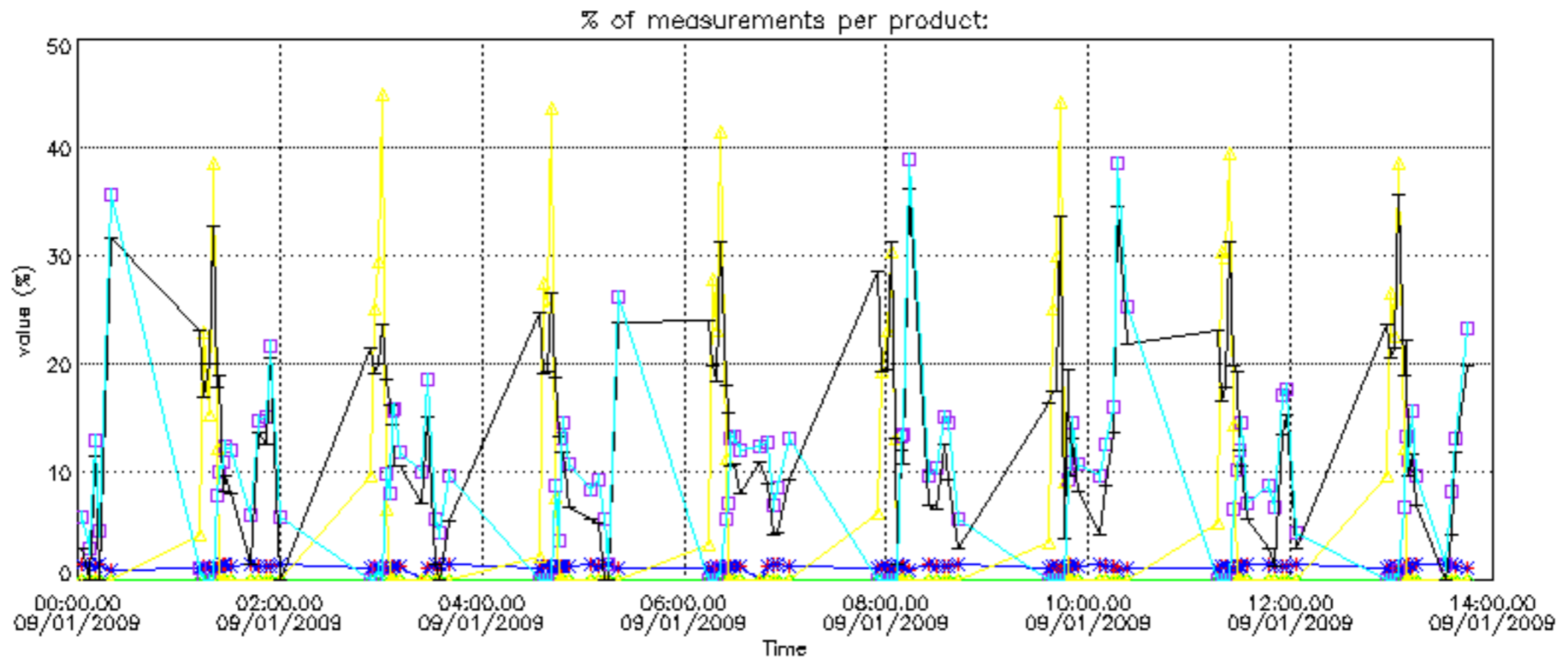
Percentage of flagged data per NO2 profile



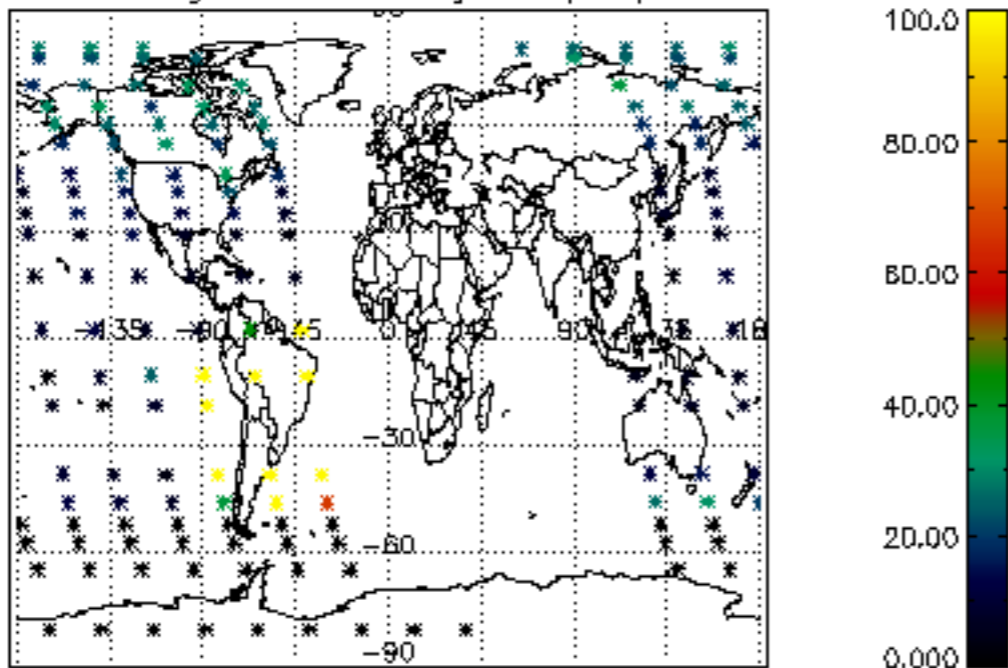
Percentage of flagged data per NO3 profile



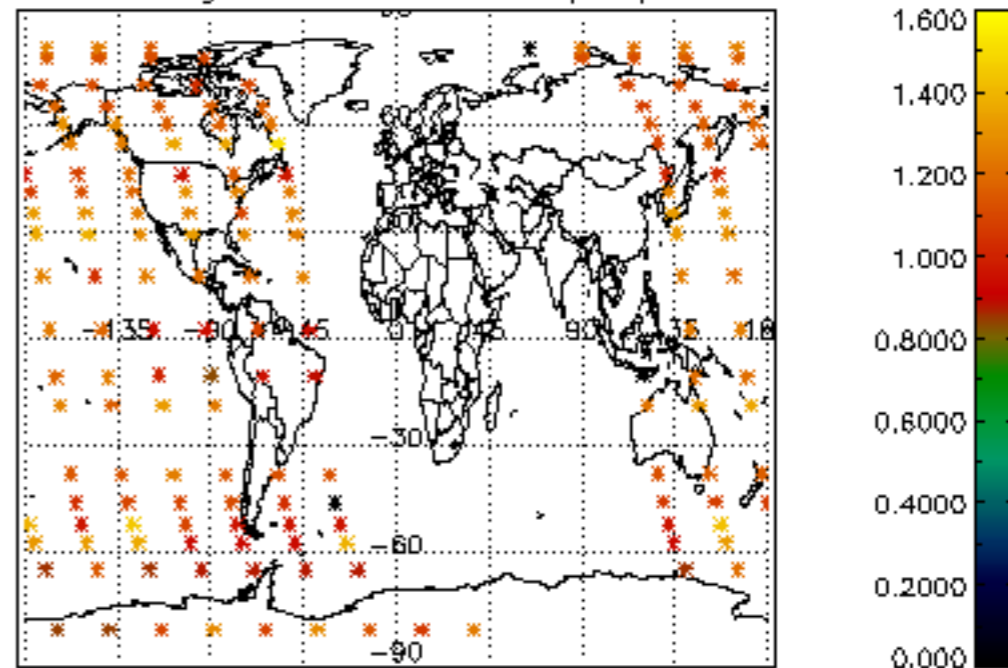




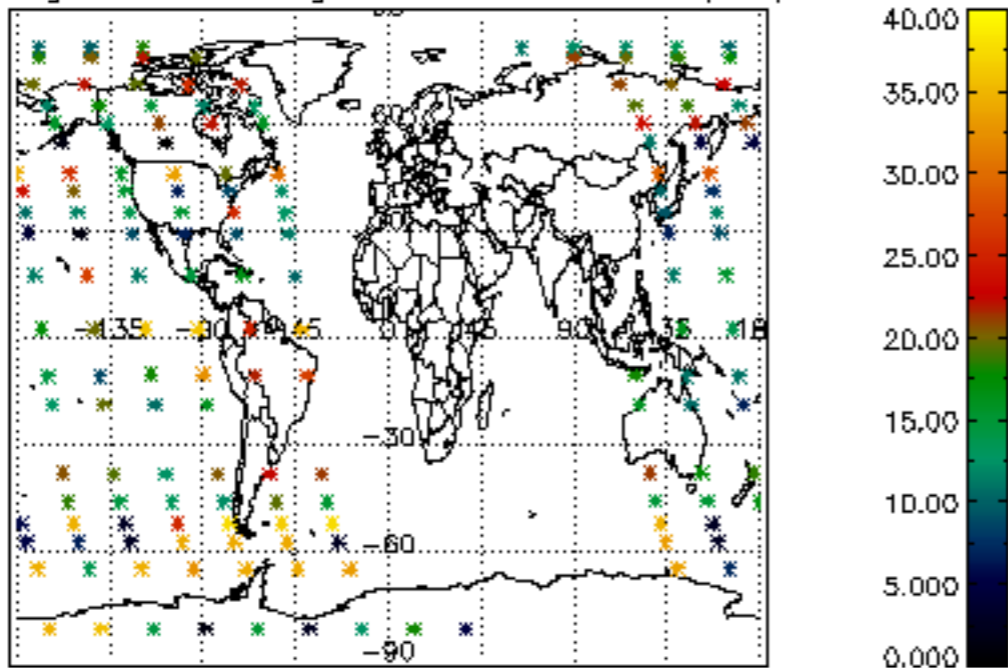
Percentage of cosmic ray hits per profile



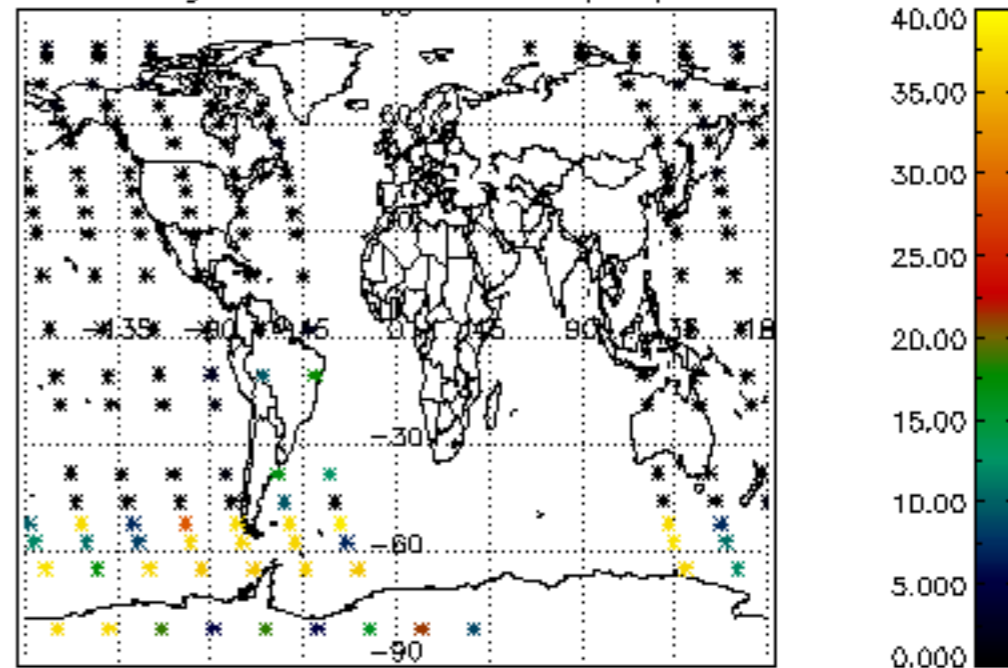
Percentage of datation errors per profile



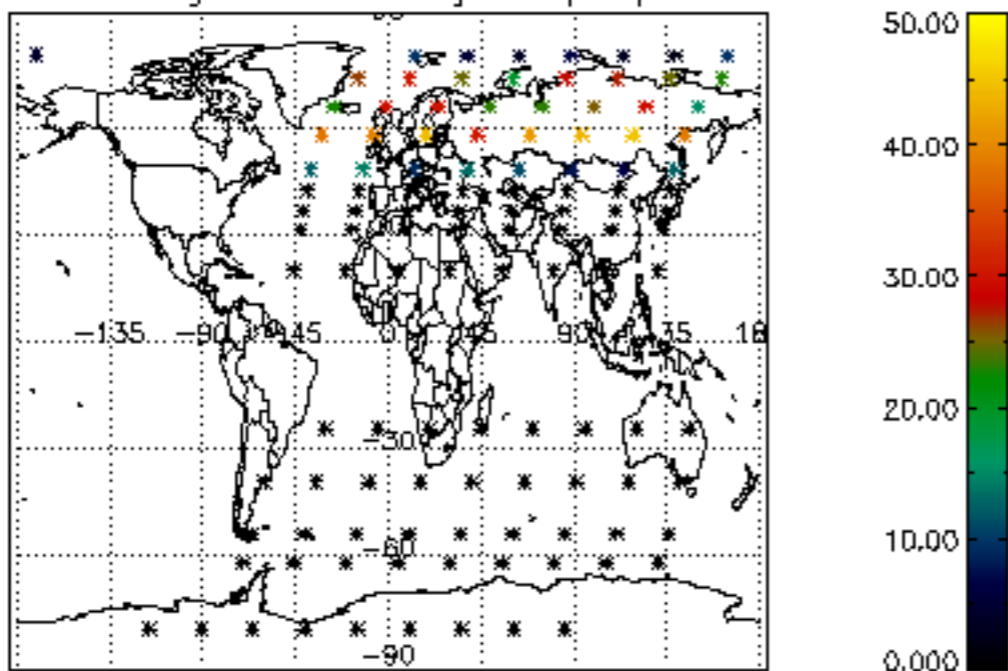
Percentage of star falling outside central band per profile



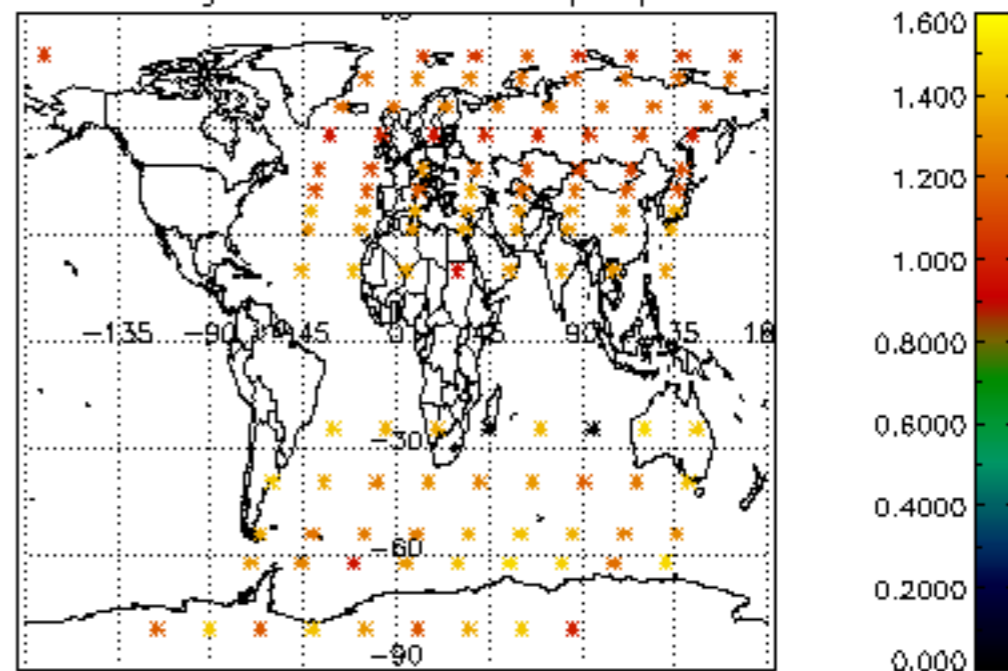
Percentage of saturation errors per profile



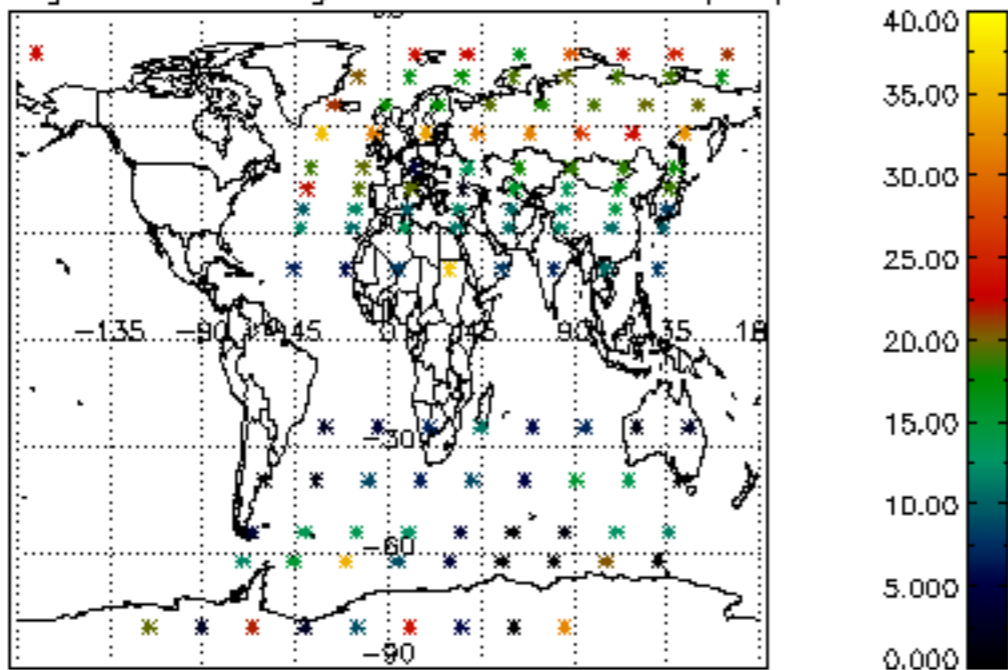
Percentage of cosmic ray hits per profile



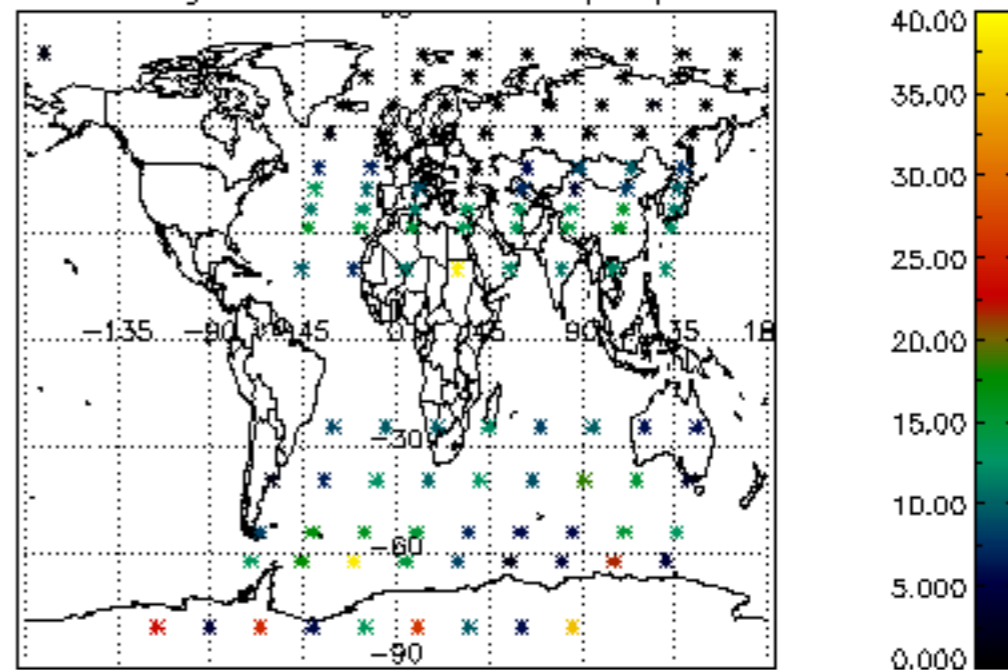
Percentage of datation errors per profile

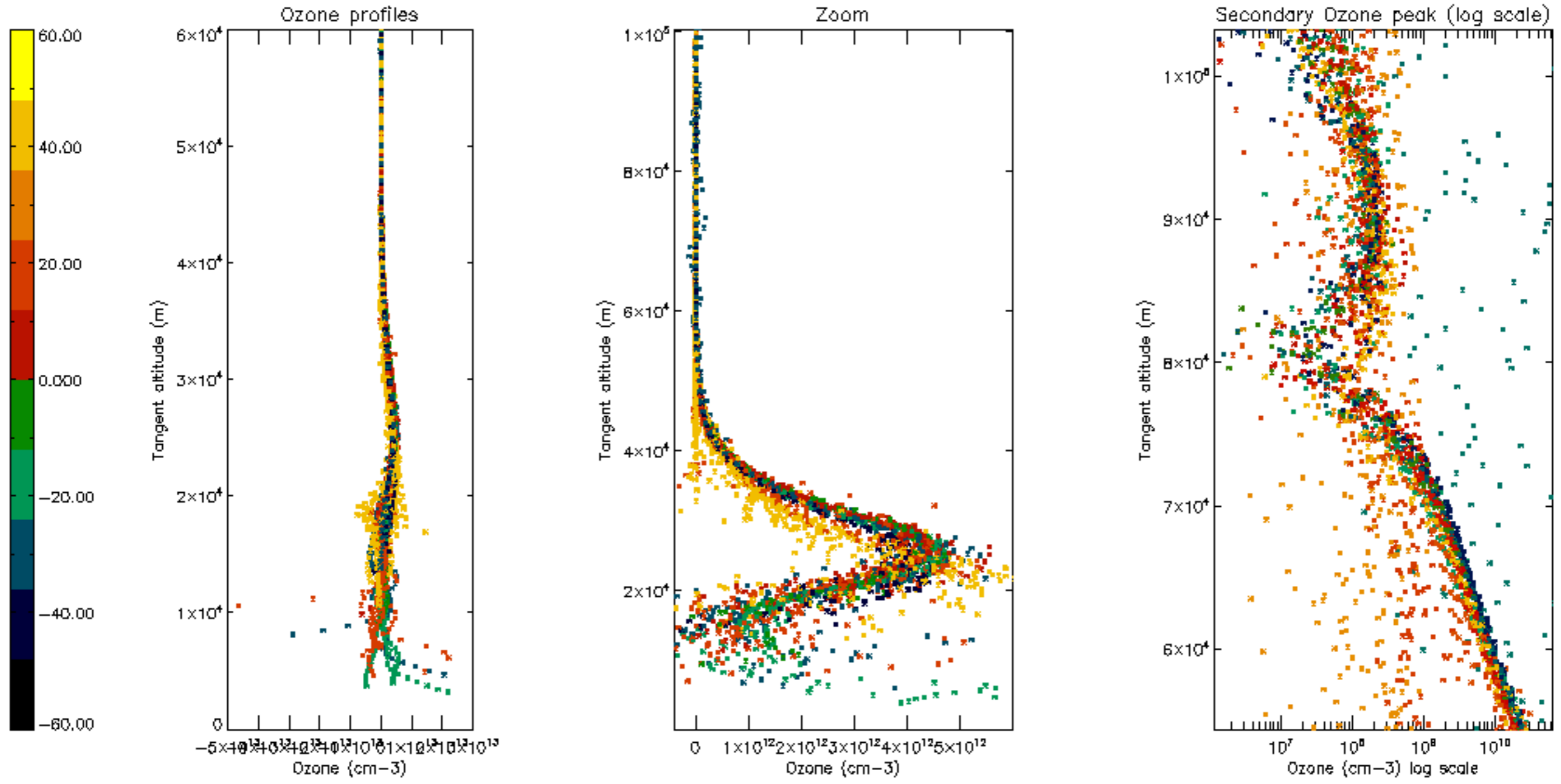


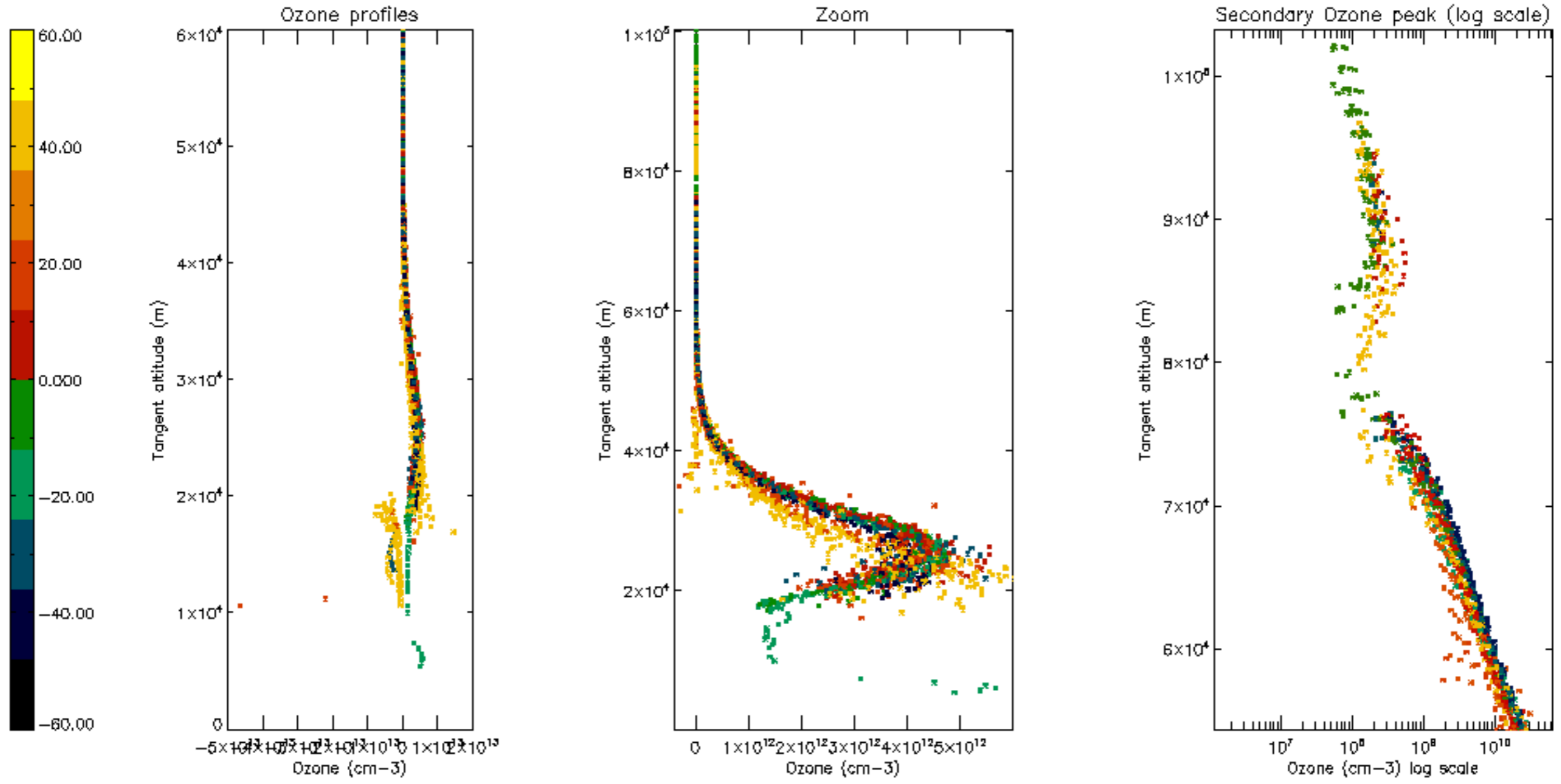
Percentage of star falling outside central band per profile

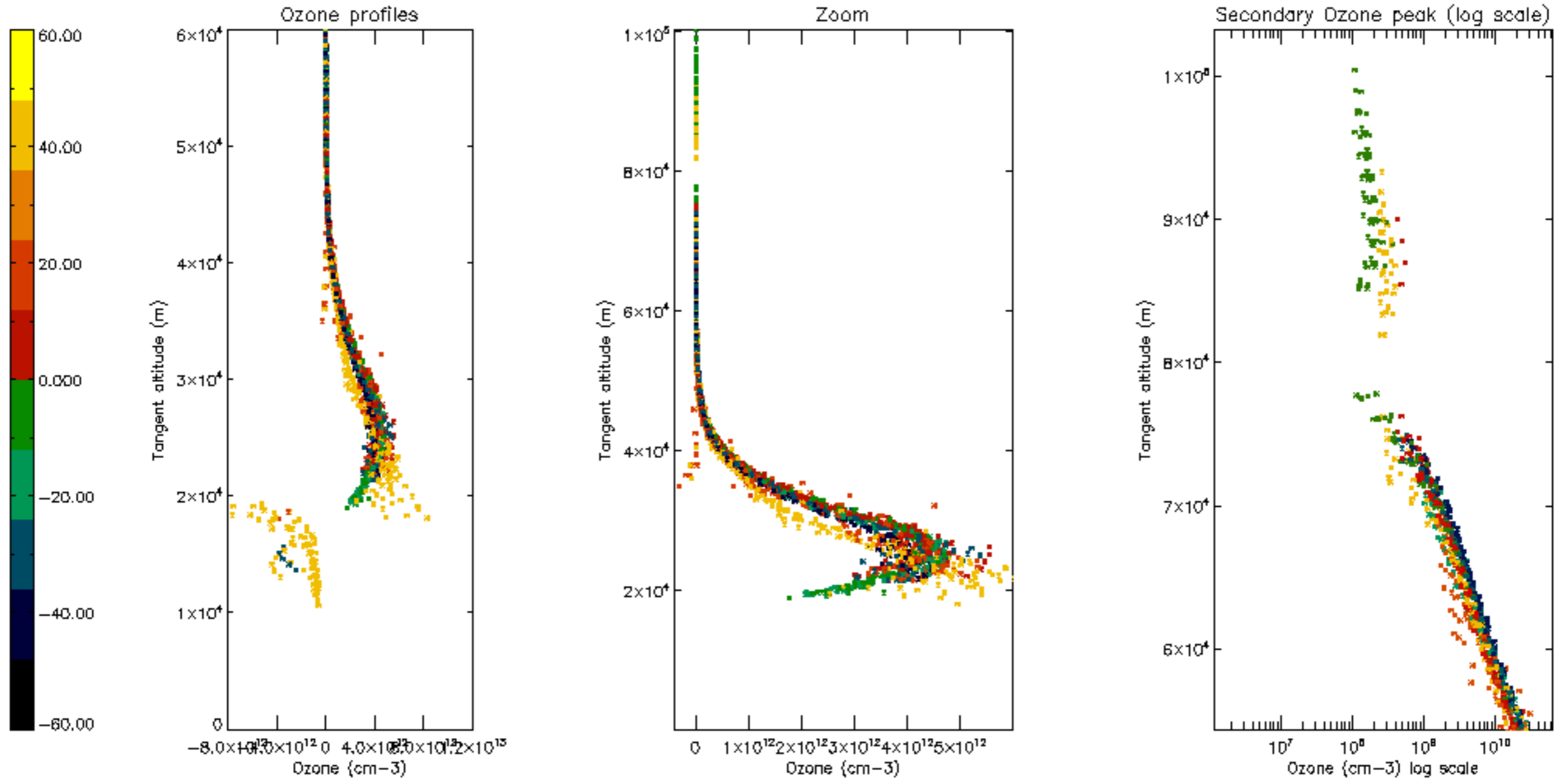


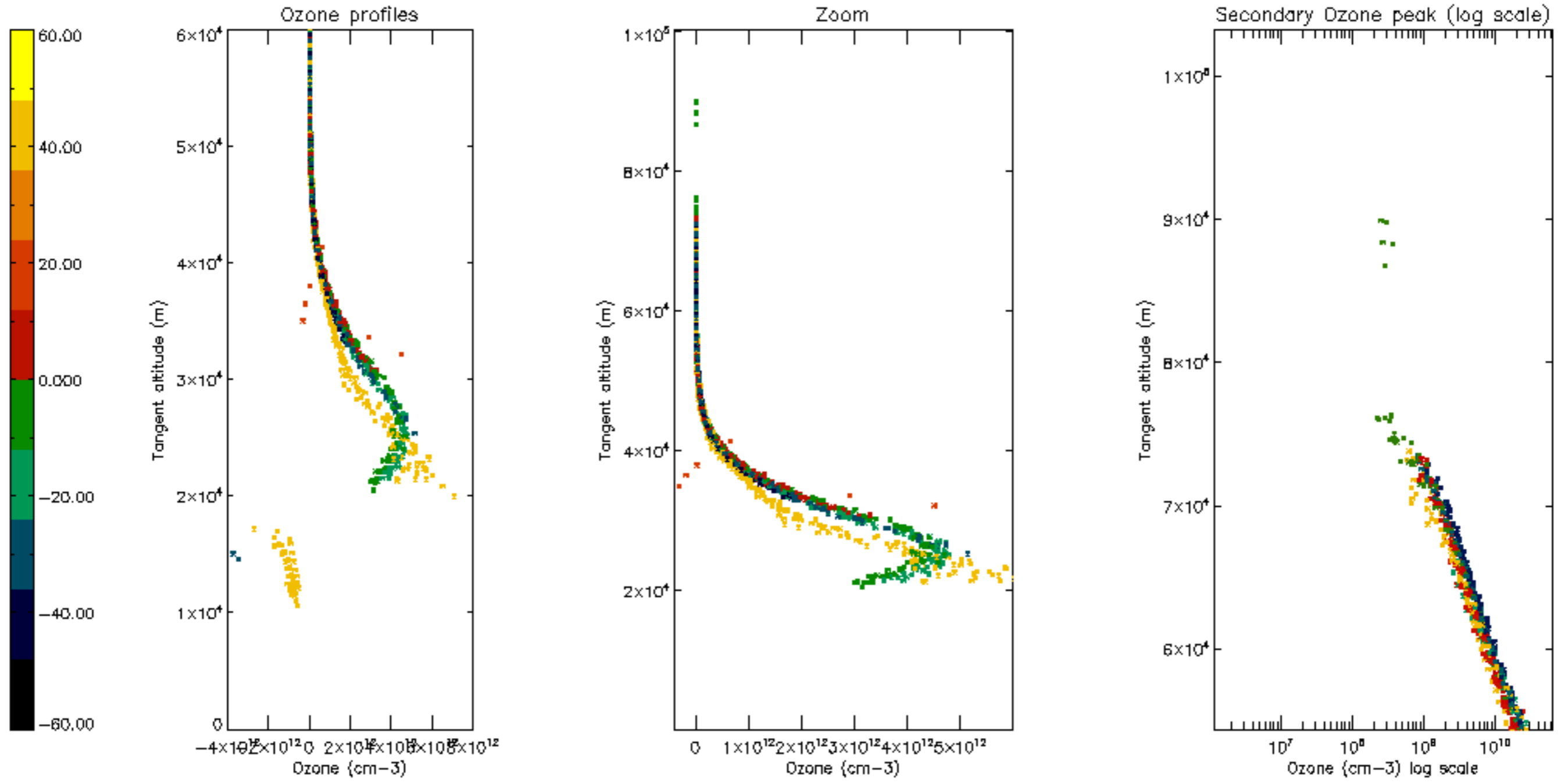
Percentage of saturation errors per profile

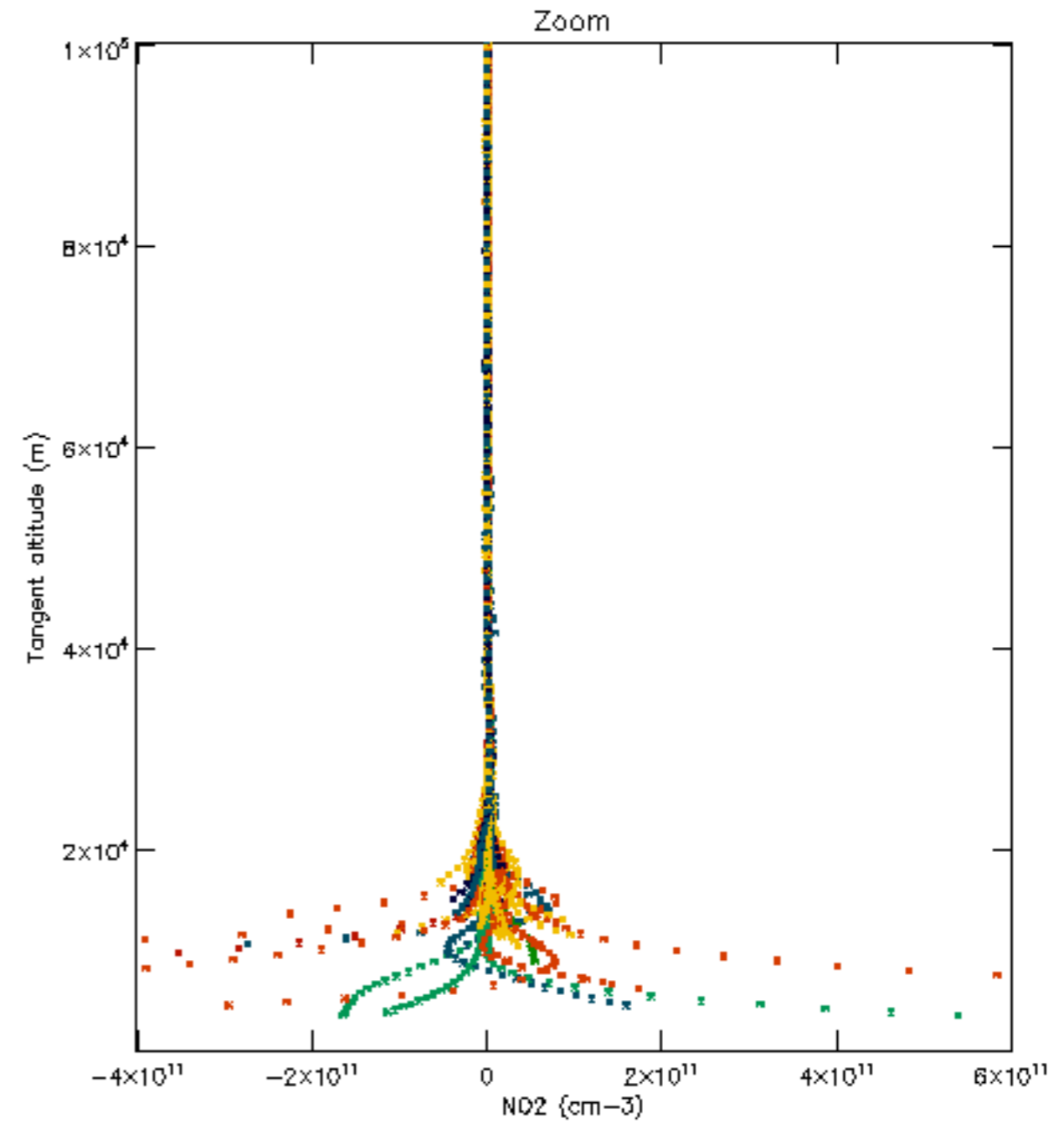
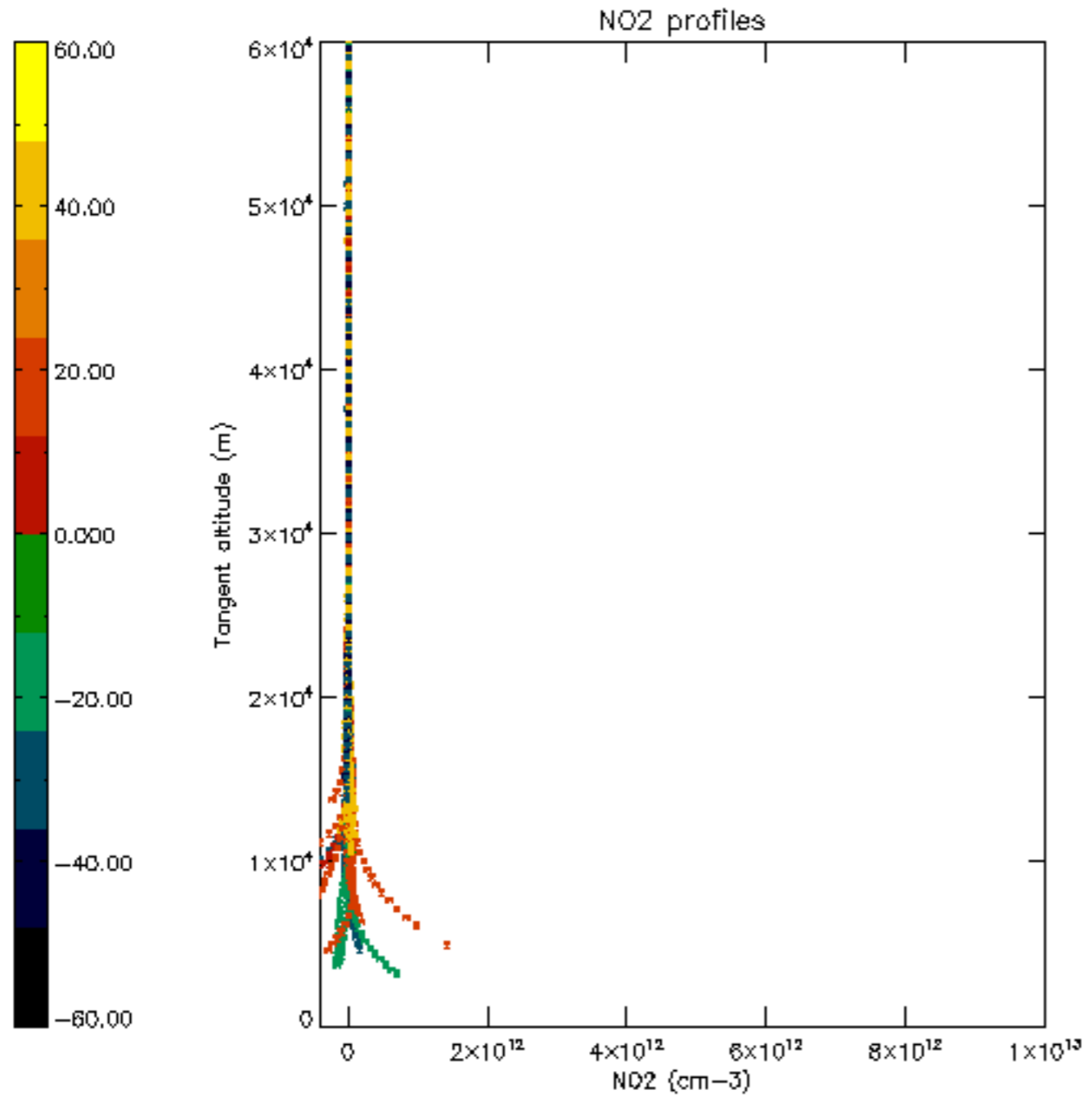


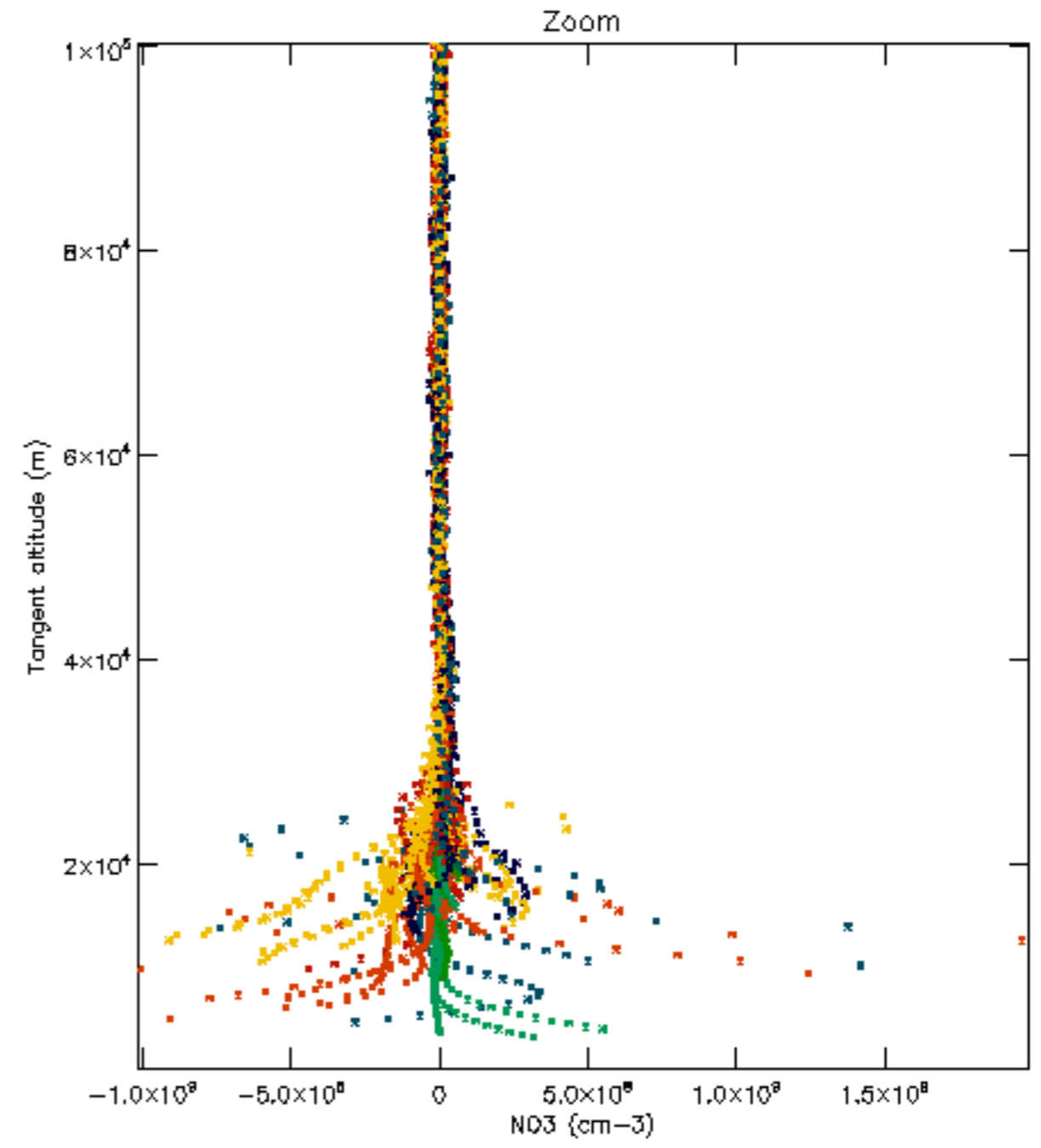
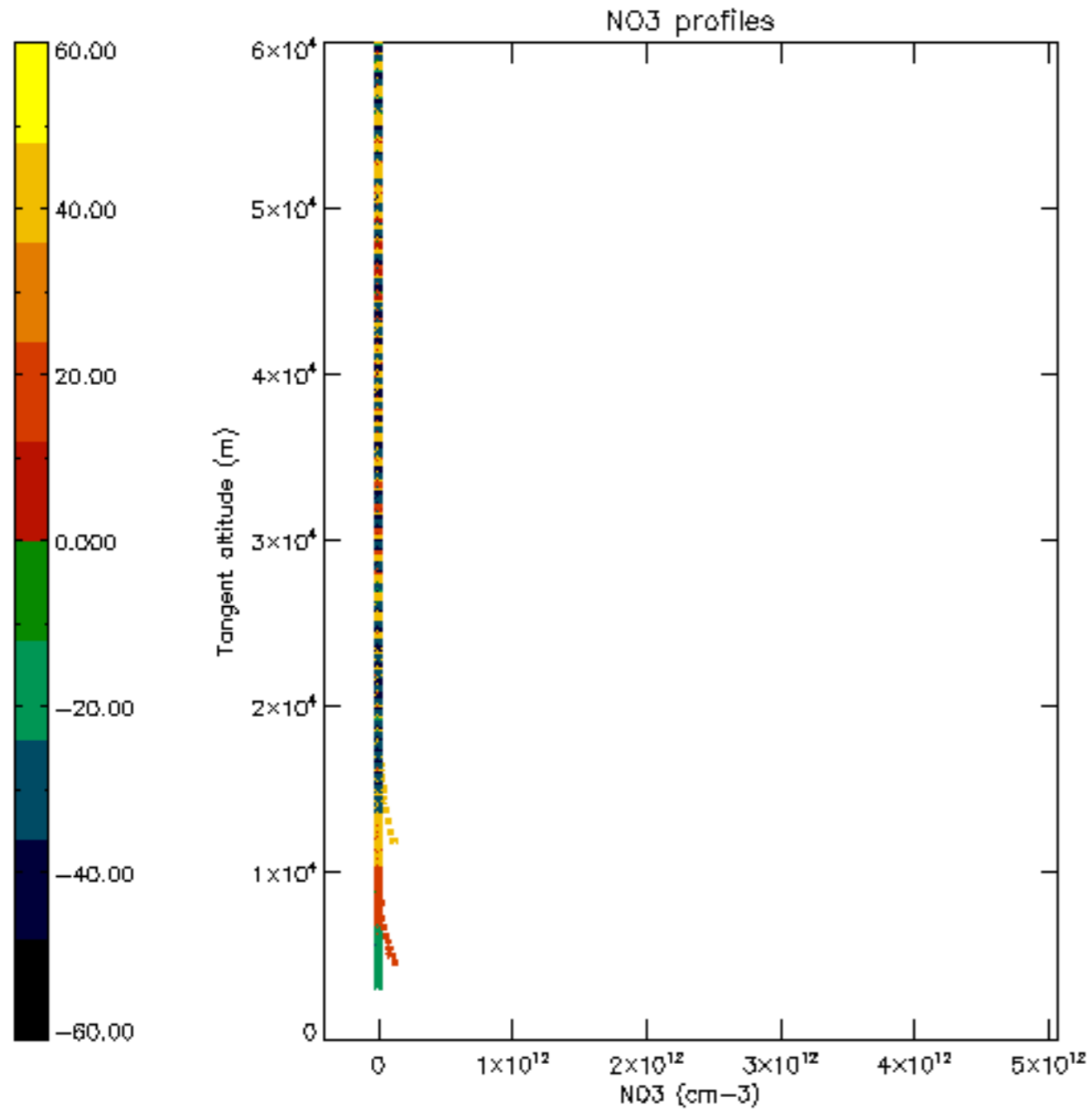


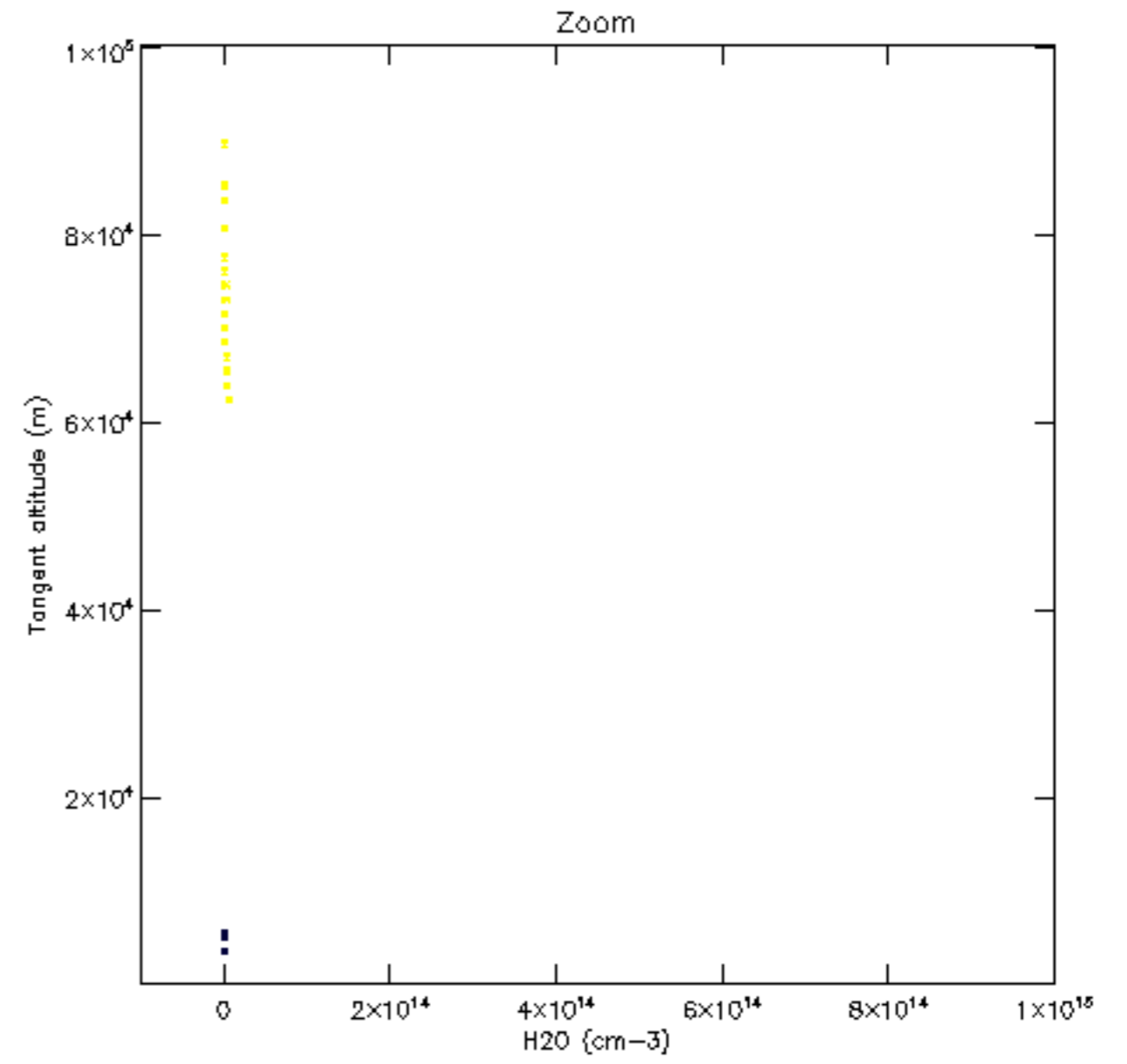
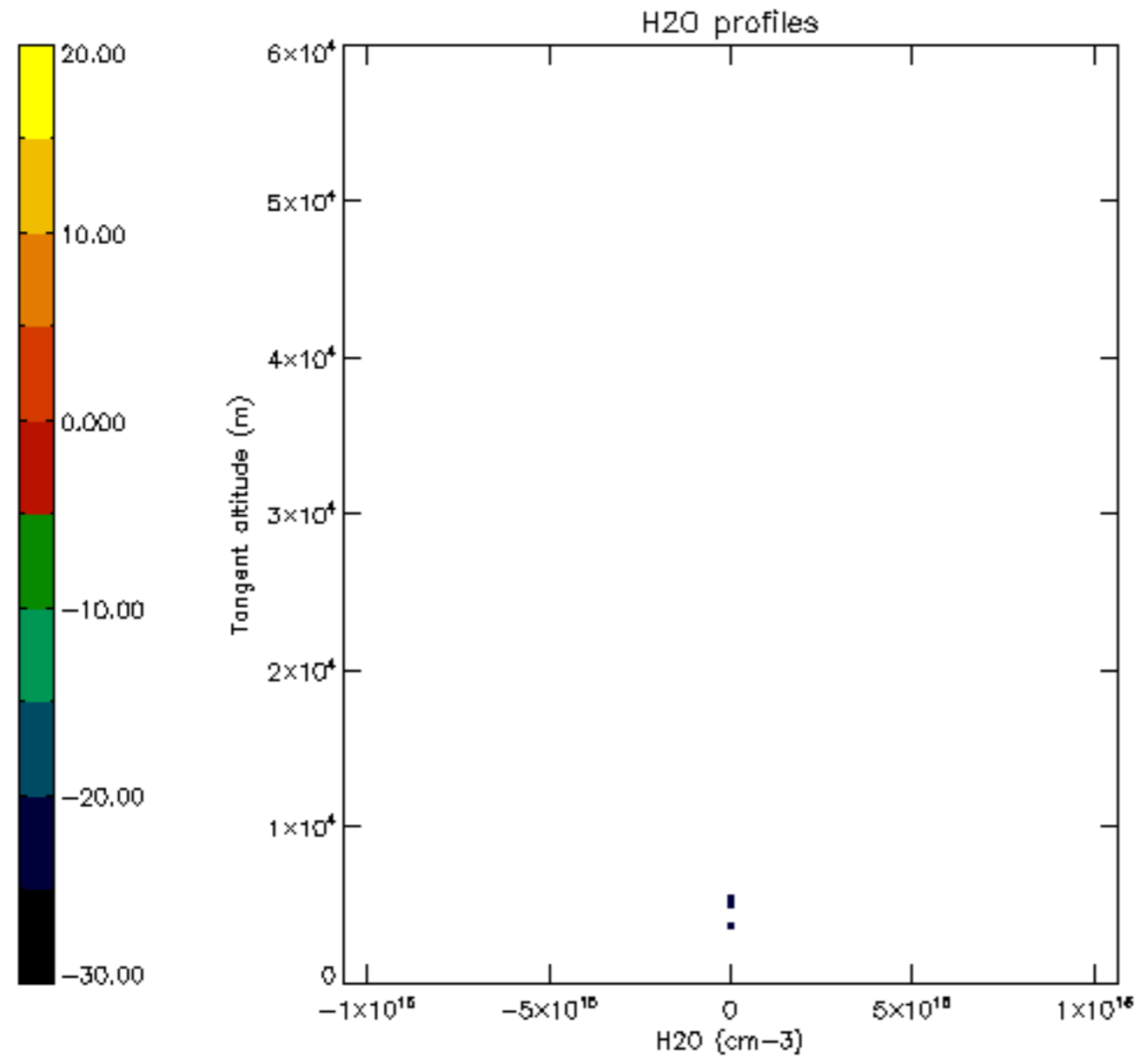


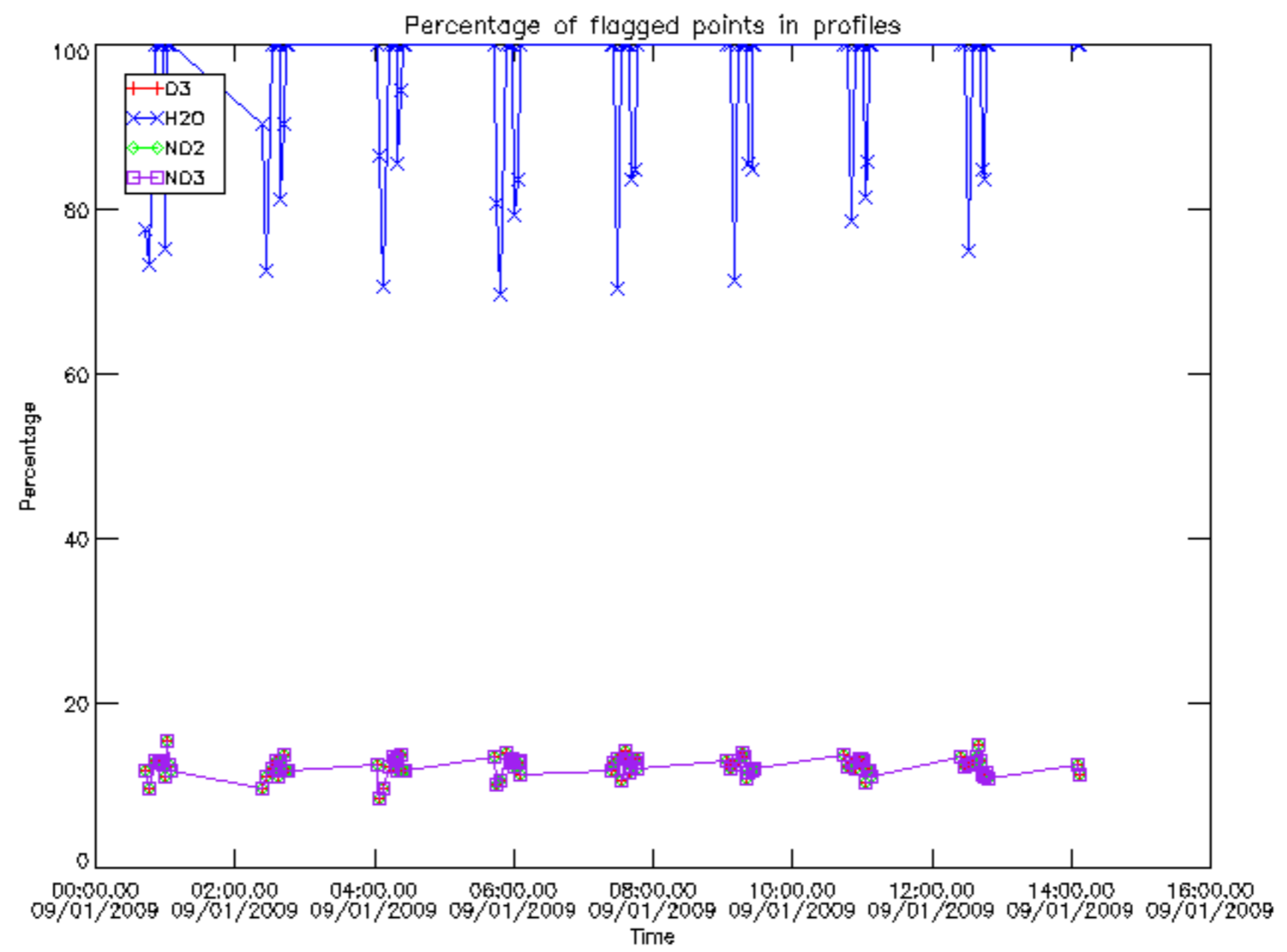




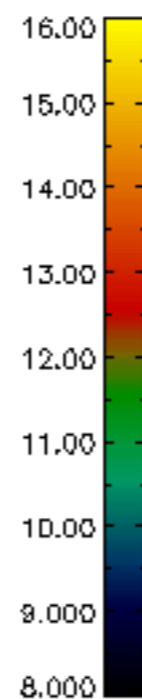
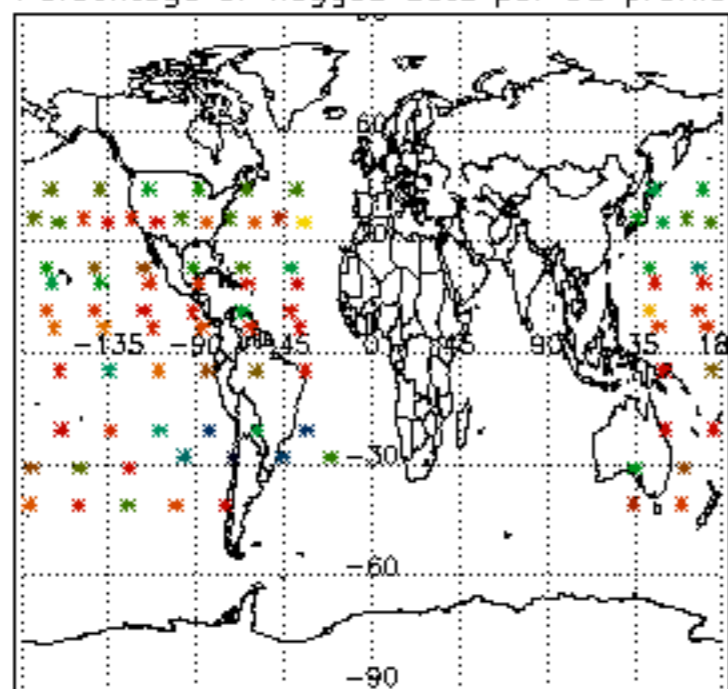




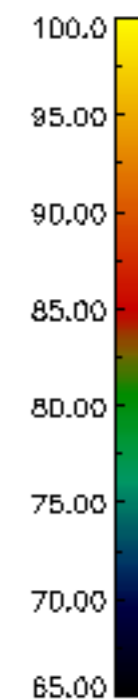
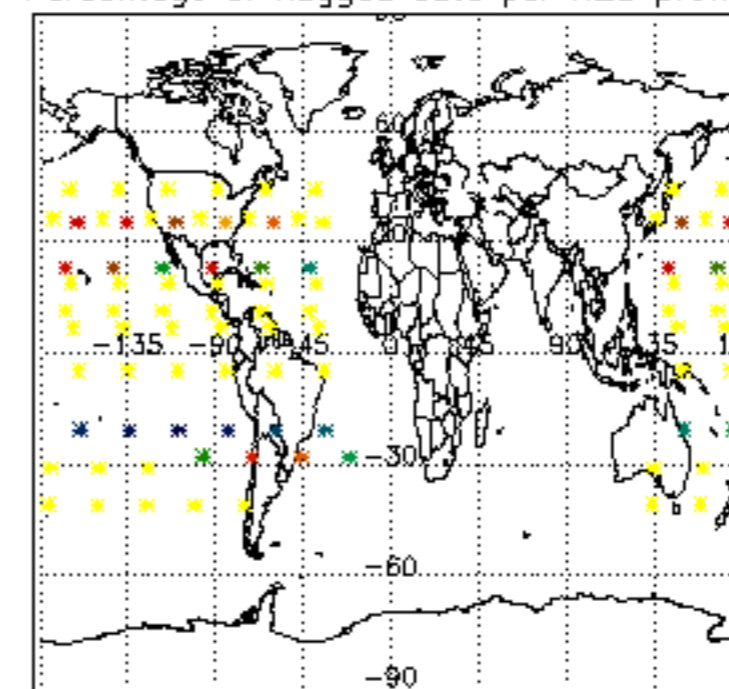




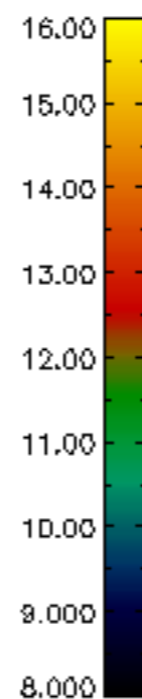
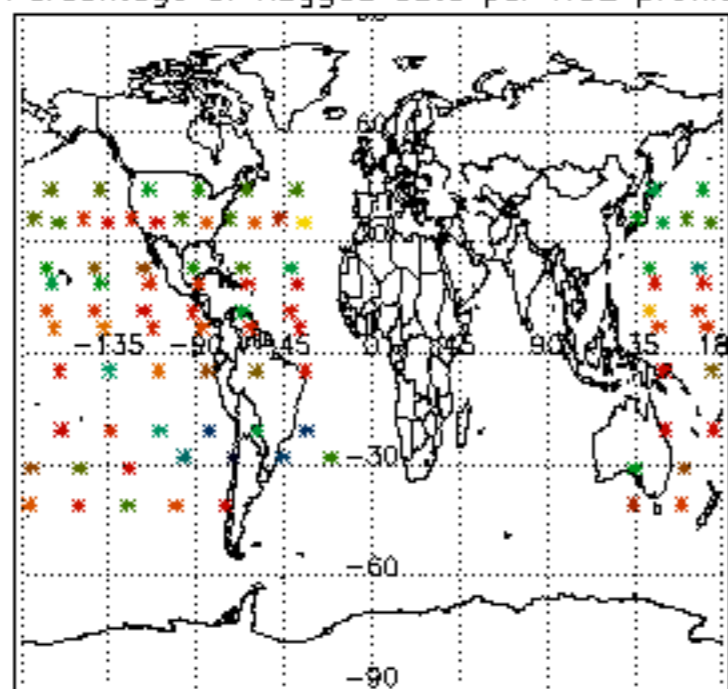
Percentage of flagged data per D3 profile



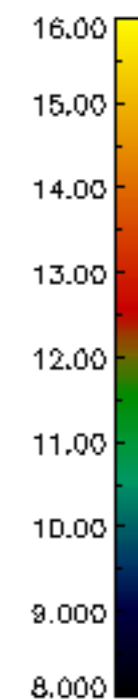
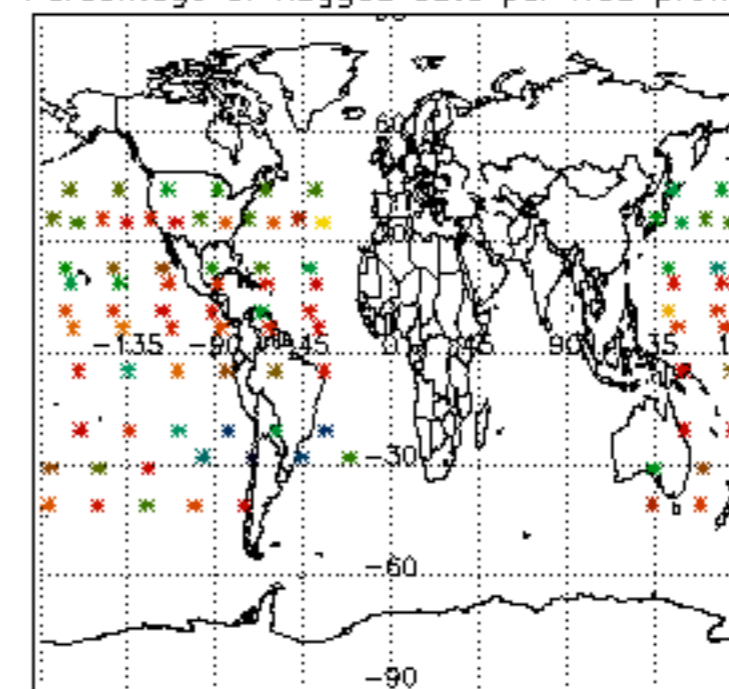
Percentage of flagged data per H2O profile

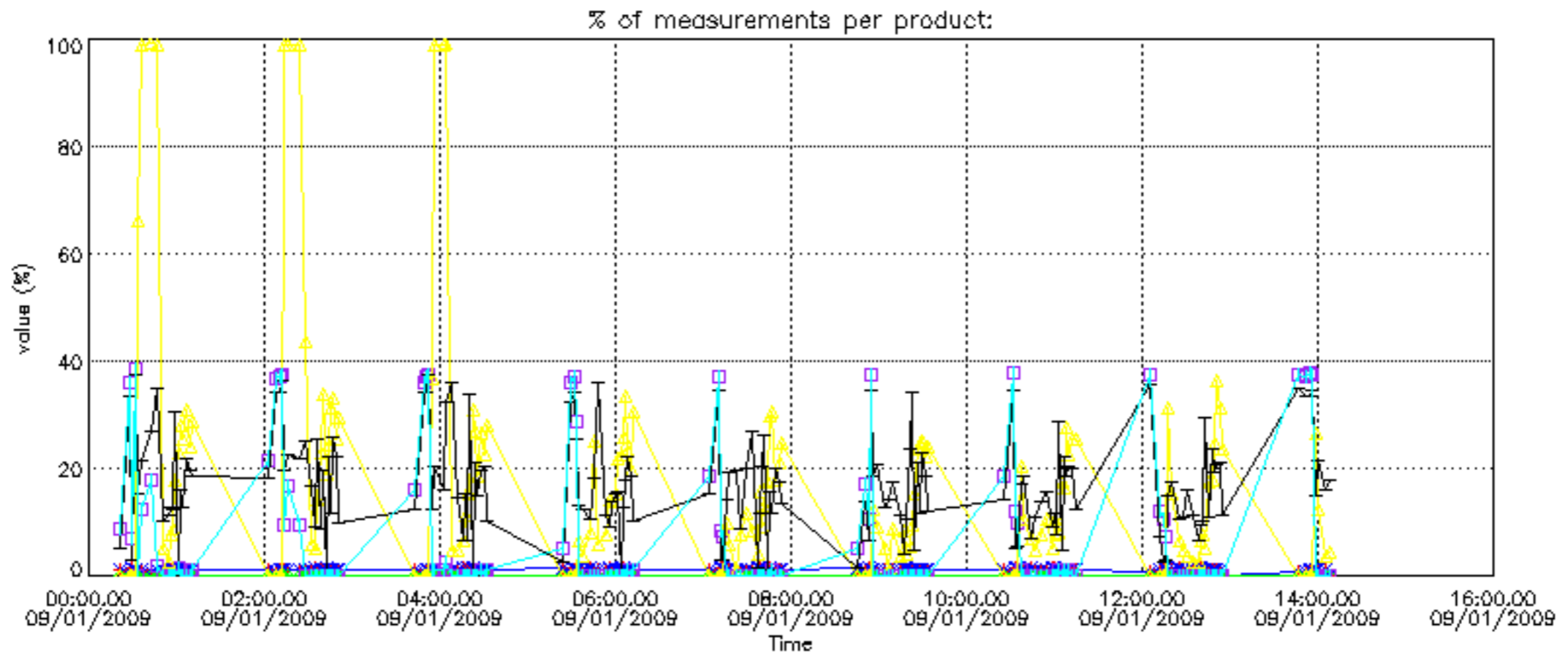


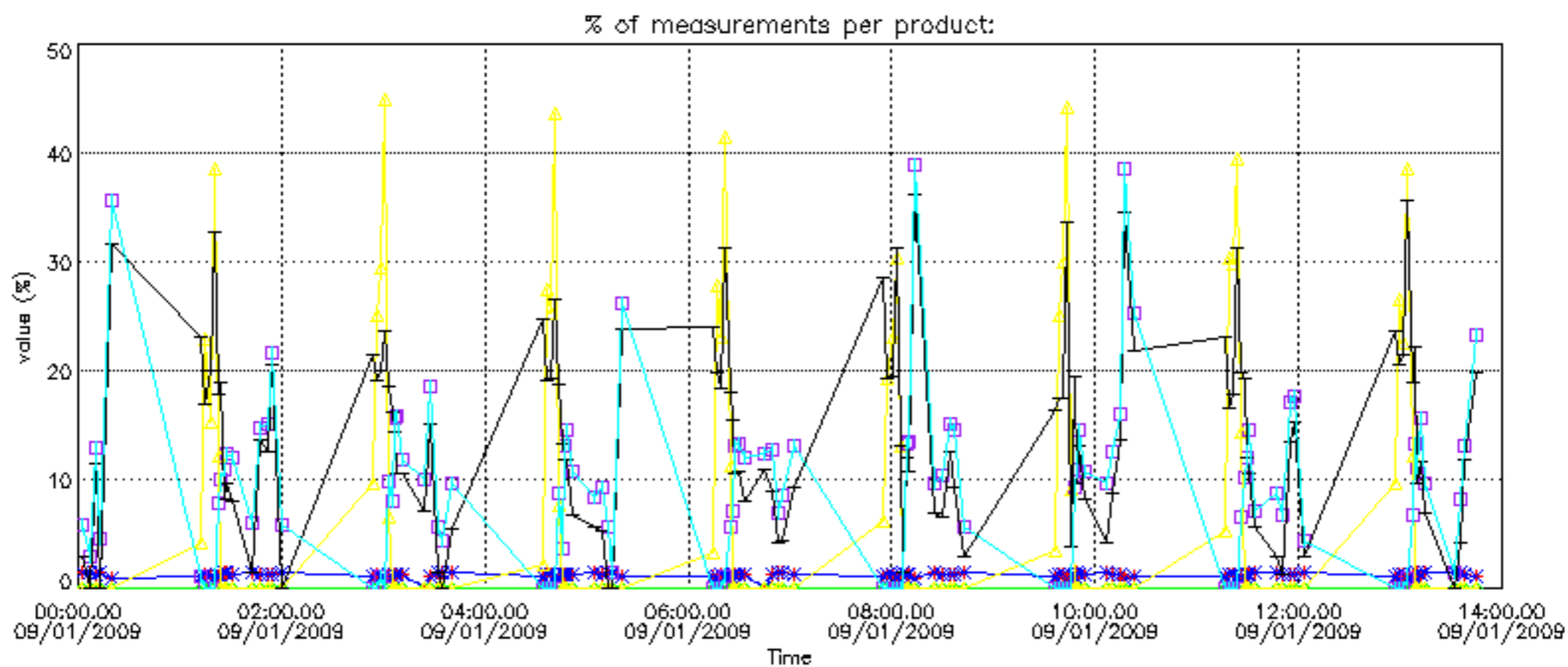
Percentage of flagged data per NO2 profile



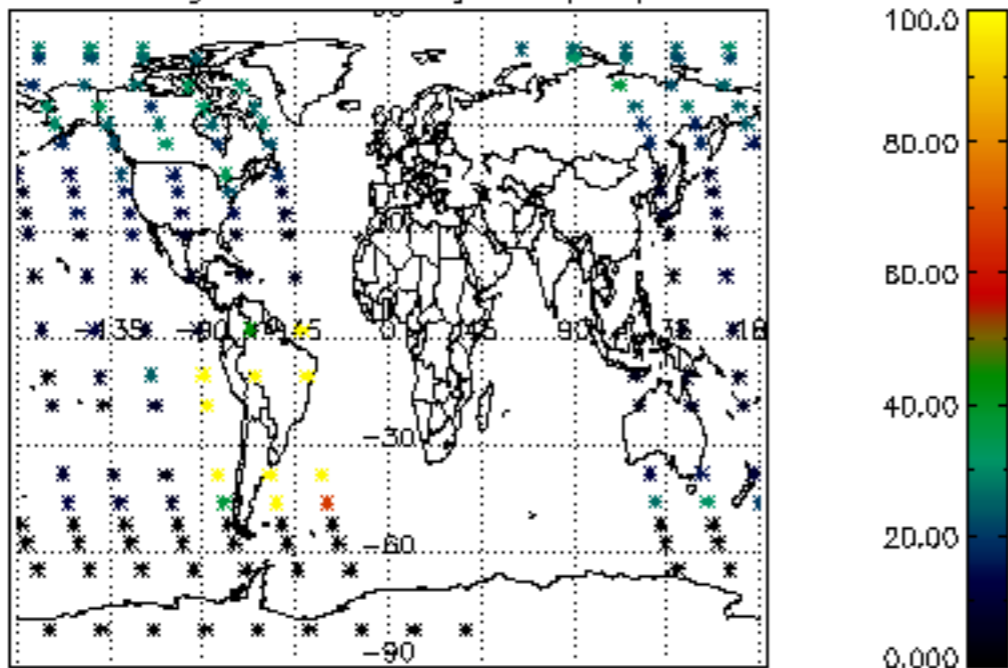
Percentage of flagged data per NO3 profile



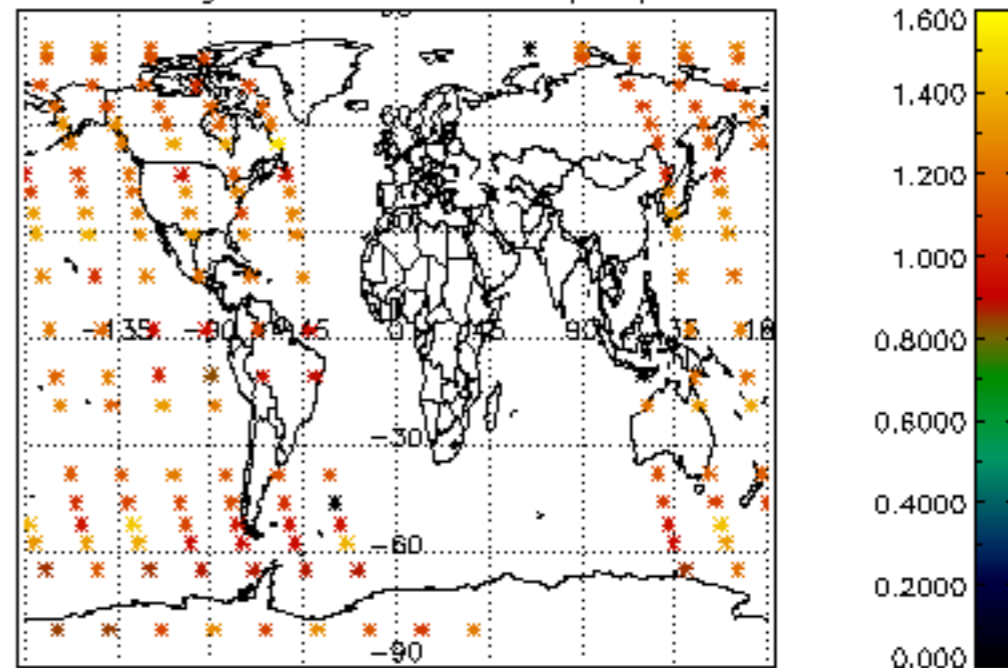




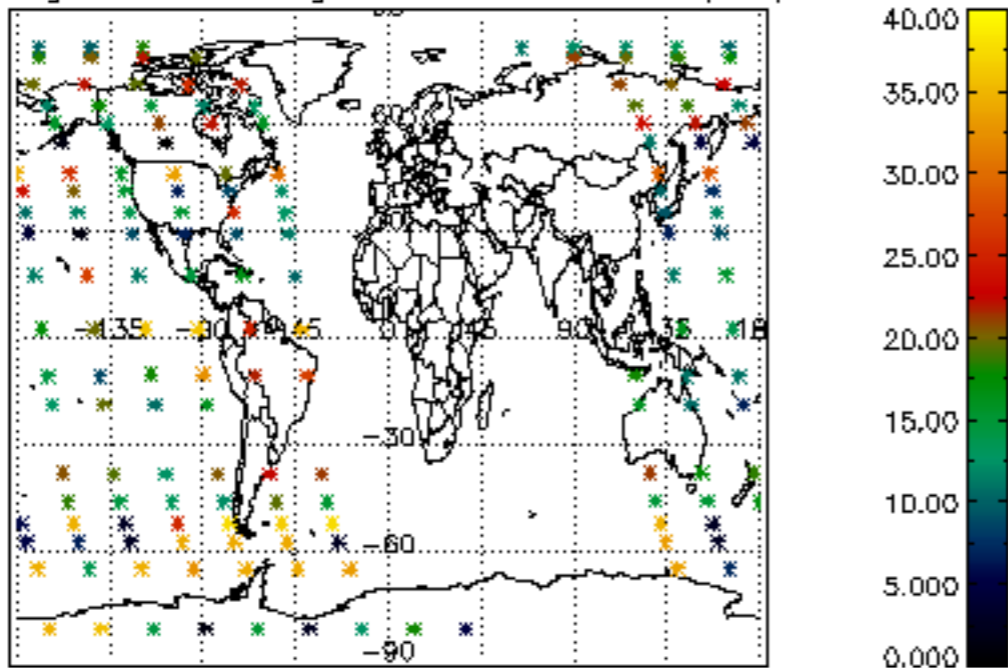
Percentage of cosmic ray hits per profile



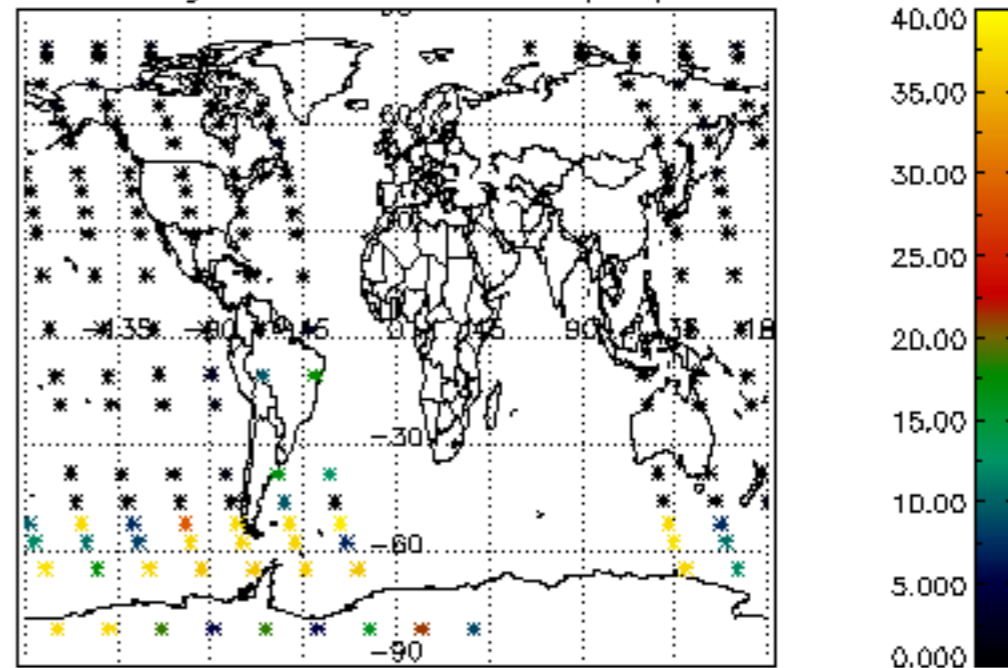
Percentage of datation errors per profile



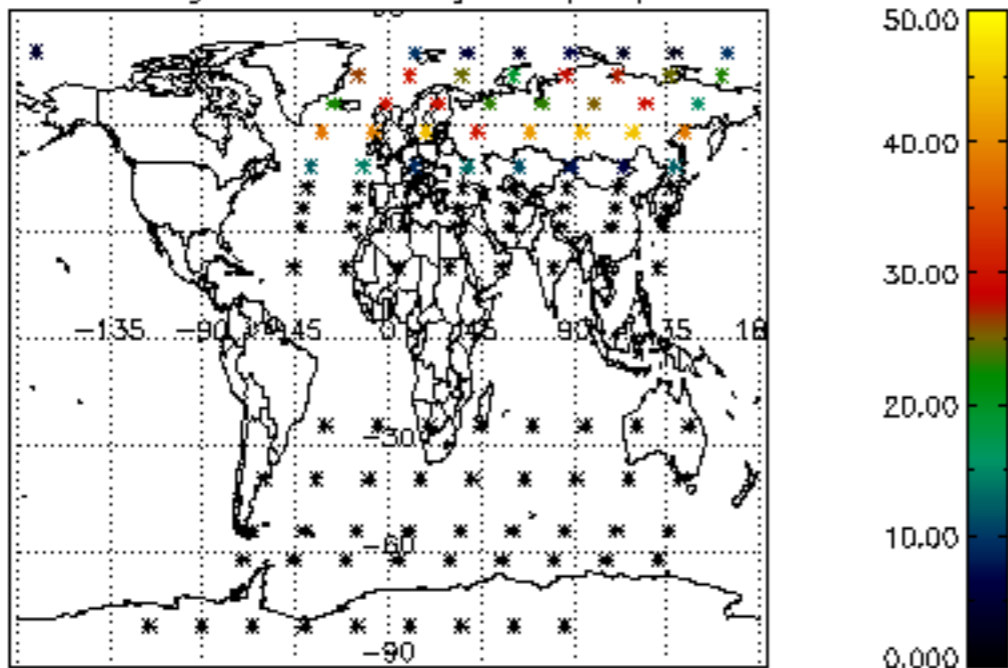
Percentage of star falling outside central band per profile



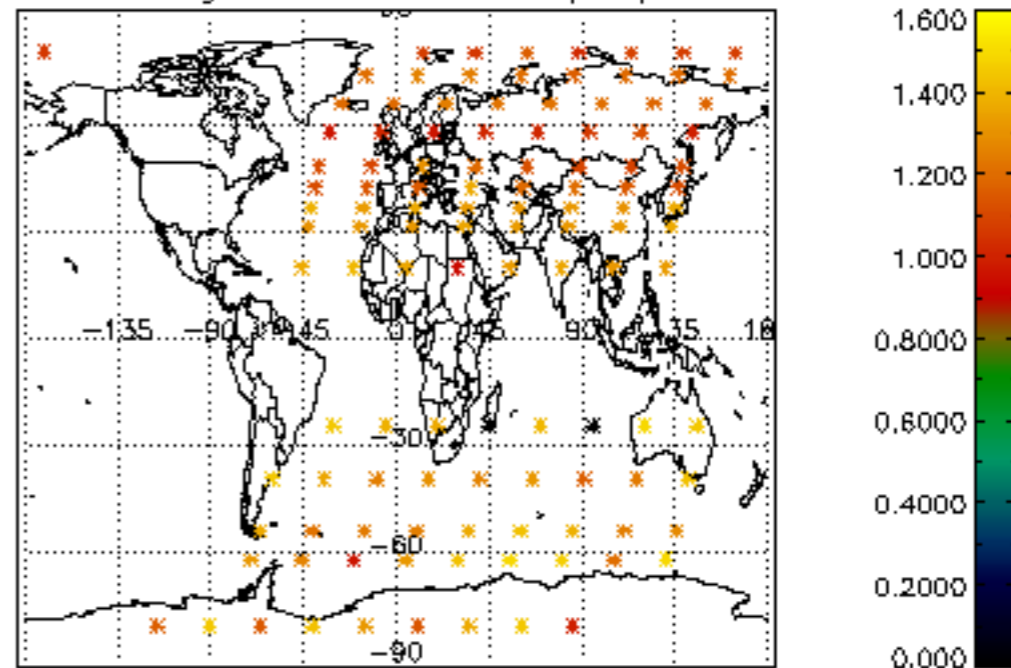
Percentage of saturation errors per profile



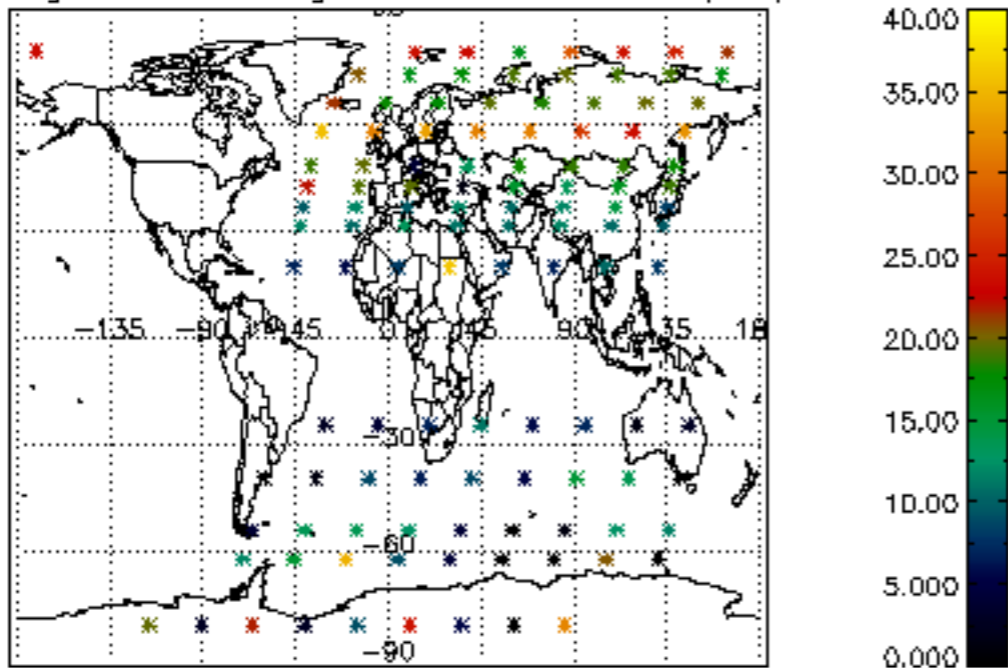
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

