

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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	18APR2013 16:53:01
Data source version	GOMOS/6.01
Start time of products	09-01-2004 (09JAN2004 00:00:00)
Stop time of products	10-01-2004 (10JAN2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	522
Nb of prods with errors	1

2. Summary of processed GOM_NL__2P products.

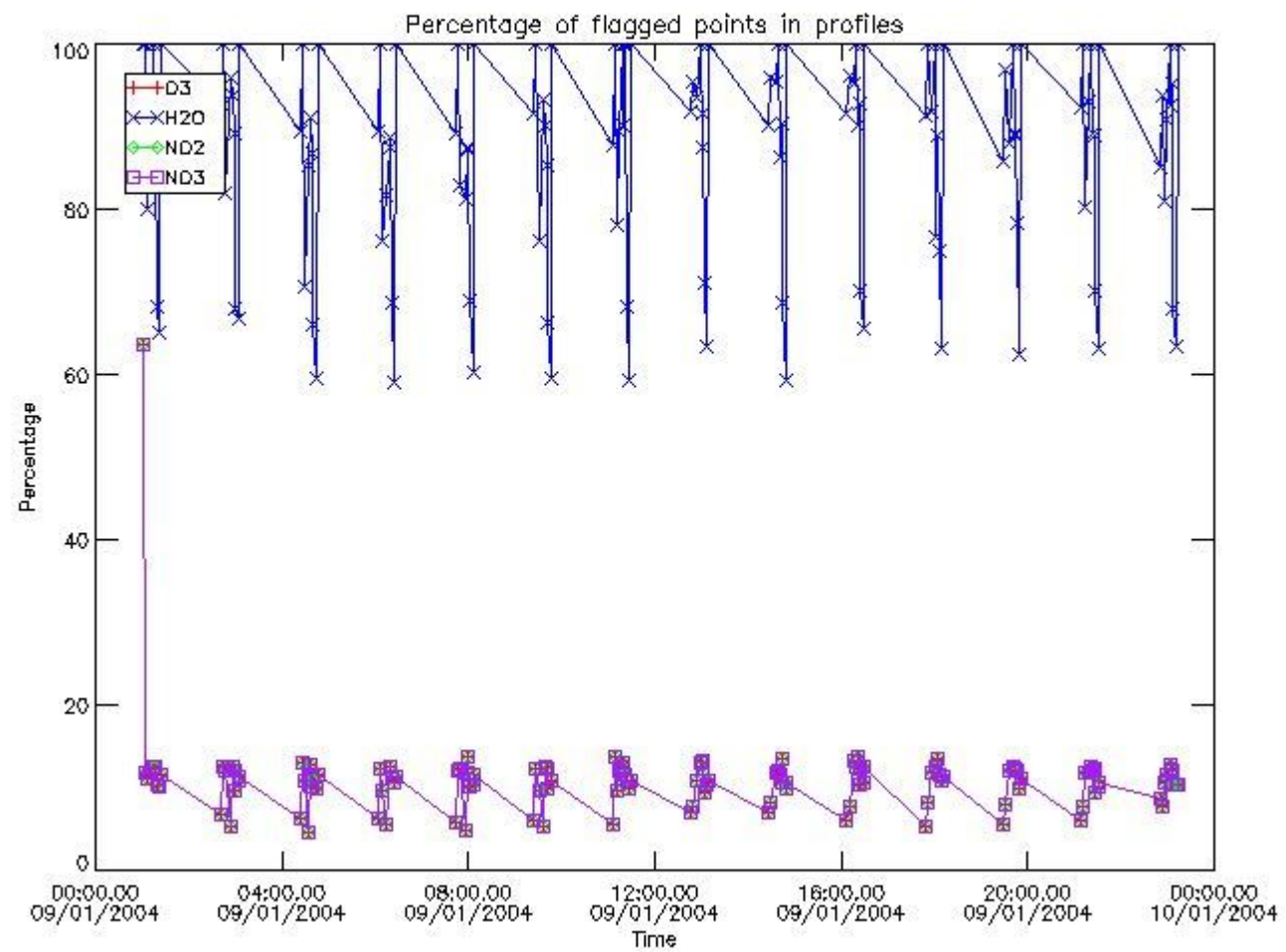
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20040109_000233_000000452023_00145_09718_0570.N1	09-JAN-2004 00:02:33	Twi_and_stray	44.500	44	24Gam Gem	1.9280	11000.	89	9718	No
2	GOM_NL__2PRFIN20040109_000414_000000462023_00145_09718_0571.N1	09-JAN-2004 00:04:14	Bright	45.500	151	13Mu Gem	2.8900	3000.0	91	9718	No
3	GOM_NL__2PRFIN20040109_000548_000000382023_00145_09718_0572.N1	09-JAN-2004 00:05:48	Bright	37.500	28	12Bet Tau	1.6500	15200.	75	9718	No
4	GOM_NL__2PRFIN20040109_000712_000000412023_00145_09718_0573.N1	09-JAN-2004 00:07:12	Bright	40.500	114	3lot Aur	2.6930	4600.0	81	9718	No
5	GOM_NL__2PRFIN20040109_000847_000000492023_00145_09718_0574.N1	09-JAN-2004 00:08:47	Bright	49.000	24	66Alp Gem	1.5800	10200.	98	9718	No
6	GOM_NL__2PRFIN20040109_001032_000000392023_00145_09718_0575.N1	09-JAN-2004 00:10:32	Bright	39.000	42	34Bet Aur	1.9000	10200.	78	9718	No
7	GOM_NL__2PRFIN20040109_001213_000000382023_00145_09718_0576.N1	09-JAN-2004 00:12:13	Bright	37.500	175	39Del Per	3.0100	19400.	75	9718	No
8	GOM_NL__2PRFIN20040109_001428_000000402023_00145_09718_0577.N1	09-JAN-2004 00:14:28	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	9718	No
9	GOM_NL__2PRFIN20040109_002256_000000362023_00145_09718_0578.N1	09-JAN-2004 00:22:56	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	9718	No
10	GOM_NL__2PRFIN20040109_002436_000000482023_00145_09718_0579.N1	09-JAN-2004 00:24:36	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	9718	No
11	GOM_NL__2PRFIN20040109_002709_000000372023_00145_09718_0580.N1	09-JAN-2004 00:27:09	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	9718	No
12	GOM_NL__2PRFIN20040109_003014_000000512023_00145_09718_0581.N1	09-JAN-2004 00:30:14	Bright	51.000	32	77Eps UMa	1.7630	11000.	102	9718	No
13	GOM_NL__2PRFIN20040109_003337_000000372023_00145_09718_0582.N1	09-JAN-2004 00:33:37	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	9718	No
14	GOM_NL__2PRFIN20040109_003752_000000742023_00145_09718_0583.N1	09-JAN-2004 00:37:52	Bright	74.000	152	12Alp2CVn	2.8900	11000.	148	9718	No
15	GOM_NL__2PRFIN20040109_004230_000000522023_00145_09718_0584.N1	09-JAN-2004 00:42:30	Bright	51.500	83		2.3780	11000.	103	9718	No
16	GOM_NL__2PRFIN20040109_004436_000000372023_00145_09718_0585.N1	09-JAN-2004 00:44:36	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	9718	No
17	GOM_NL__2PRFIN20040109_004730_000000732023_00145_09718_0586.N1	09-JAN-2004 00:47:30	Bright	73.000	111	8Eta Boo	2.6800	6000.0	146	9718	No
18	GOM_NL__2PRFIN20040109_005012_000000392023_00145_09718_0587.N1	09-JAN-2004 00:50:12	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	9718	No
19	GOM_NL__2PRFIN20040109_005323_000000472023_00145_09718_0588.N1	09-JAN-2004 00:53:23	Twi_and_stray	47.000	104	27Bet Lib	2.6140	13100.	94	9718	No
20	GOM_NL__2PRFIN20040109_005540_000000472023_00145_09718_0589.N1	09-JAN-2004 00:55:40	Twi_and_stray	46.500	80	7Del Sco	2.3160	30000.	93	9718	No
21	GOM_NL__2PRFIN20040109_010130_000000822023_00145_09718_0590.N1	09-JAN-2004 01:01:30	Dark	81.500	15	67Alp Vir	0.97600	28000.	163	9718	No
22	GOM_NL__2PRFIN20040109_010410_000000432023_00145_09718_0591.N1	09-JAN-2004 01:04:10	Dark	43.000	78	Alp Lup	2.3040	28000.	86	9718	No
23	GOM_NL__2PRFIN20040109_010705_000000462023_00146_09719_0555.N1	09-JAN-2004 01:07:05	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	9719	No
24	GOM_NL__2PRFIN20040109_011016_000000442023_00146_09719_0556.N1	09-JAN-2004 01:10:16	Dark	43.500	20	Bet Cru	1.2530	30000.	87	9719	No
25	GOM_NL__2PRFIN20040109_011434_000000412023_00146_09719_0557.N1	09-JAN-2004 01:14:34	Dark	40.500	124	The Car	2.7640	30000.	81	9719	No
26	GOM_NL__2PRFIN20040109_011612_000000412023_00146_09719_0558.N1	09-JAN-2004 01:16:12	Dark	40.500	29	Bet Car	1.6720	10200.	81	9719	No
27	GOM_NL__2PRFIN20040109_011754_000000412023_00146_09719_0559.N1	09-JAN-2004 01:17:54	Dark	41.000	71	lot Car	2.2460	7700.0	82	9719	No
28	GOM_NL__2PRFIN20040109_011918_000000542023_00146_09719_0560.N1	09-JAN-2004 01:19:18	Dark	54.000	41	Eps Car	1.8600	4100.0	108	9719	No
29	GOM_NL__2PRFIN20040109_012310_000000512023_00146_09719_0561.N1	09-JAN-2004 01:23:10	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	9719	No
30	GOM_NL__2PRFIN20040109_012446_000000452023_00146_09719_0562.N1	09-JAN-2004 01:24:46	Dark	44.500	70	Zet Pup	2.2460	39000.	89	9719	No
31	GOM_NL__2PRFIN20040109_012637_000000472023_00146_09719_0563.N1	09-JAN-2004 01:26:37	Straylight	46.500	117	Pi Pup	2.7060	3800.0	93	9719	No
32	GOM_NL__2PRFIN20040109_012916_000000462023_00146_09719_0564.N1	09-JAN-2004 01:29:16	Straylight	45.500	23	21Eps CMa	1.5020	26000.	91	9719	No
33	GOM_NL__2PRFIN20040109_013044_000000452023_00146_09719_0565.N1	09-JAN-2004 01:30:44	Straylight	45.000	179	24Omi2CMa	3.0320	24000.	90	9719	No
34	GOM_NL__2PRFIN20040109_013303_000000512023_00146_09719_0566.N1	09-JAN-2004 01:33:03	Straylight	51.000	1	9Alp CMa	-1.4400	11000.	102	9719	No
35	GOM_NL__2PRFIN20040109_013611_000000522023_00146_09719_0567.N1	09-JAN-2004 01:36:11	Straylight	52.000	7	19Bet Ori	0.10000	14000.	104	9719	No
36	GOM_NL__2PRFIN20040109_013756_000000472023_00146_09719_0568.N1	09-JAN-2004 01:37:56	Straylight	46.500	30	46Eps Ori	1.6940	30000.	93	9719	No
37	GOM_NL__2PRFIN20040109_014030_000000702023_00146_09719_0569.N1	09-JAN-2004 01:40:30	Twi_and_stray	70.000	8	10Alp CMi	0.40000	6500.0	140	9719	No
38	GOM_NL__2PRFIN20040109_014309_000000442023_00146_09719_0570.N1	09-JAN-2004 01:43:09	Twi_and_stray	43.500	44	24Gam Gem	1.9280	11000.	87	9719	No
39	GOM_NL__2PRFIN20040109_014450_000000472023_00146_09719_0571.N1	09-JAN-2004 01:44:50	Bright	46.500	151	13Mu Gem	2.8900	3000.0	93	9719	No
40	GOM_NL__2PRFIN20040109_014624_000000392023_00146_09719_0572.N1	09-JAN-2004 01:46:24	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	9719	No
41	GOM_NL__2PRFIN20040109_014748_000000392023_00146_09719_0573.N1	09-JAN-2004 01:47:48	Bright	38.500	114	3lot Aur	2.6930	4600.0	77	9719	No
42	GOM_NL__2PRFIN20040109_014921_000000472023_00146_09719_0574.N1	09-JAN-2004 01:49:21	Bright	47.000	24	66Alp Gem	1.5800	10200.	94	9719	No

515	GOM_NL__2PRFIN20040109_233537_000000402023_00159_09732_0618.N1	09-JAN-2004 23:35:37	Bright	39.500	114	3lot Aur	2.6930	4600.0	79	9732	No
516	GOM_NL__2PRFIN20040109_233822_000000372023_00159_09732_0619.N1	09-JAN-2004 23:38:22	Bright	37.000	149	45Eps Per	2.8880	30000.	74	9732	No
517	GOM_NL__2PRFIN20040109_234040_000000382023_00159_09732_0620.N1	09-JAN-2004 23:40:40	Bright	37.500	175	39Del Per	3.0100	19400.	75	9732	No
518	GOM_NL__2PRFIN20040109_234257_000000392023_00159_09732_0621.N1	09-JAN-2004 23:42:57	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	9732	No
519	GOM_NL__2PRFIN20040109_235119_000000382023_00159_09732_0622.N1	09-JAN-2004 23:51:19	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	9732	No
520	GOM_NL__2PRFIN20040109_235249_000000462023_00159_09732_0623.N1	09-JAN-2004 23:52:49	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	9732	No
521	GOM_NL__2PRFIN20040109_235531_000000392023_00159_09732_0624.N1	09-JAN-2004 23:55:31	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	9732	No
522	GOM_NL__2PRFIN20040109_235830_000000512023_00159_09732_0625.N1	09-JAN-2004 23:58:30	Bright	50.500	32	77Eps UMa	1.7630	11000.	101	9732	No

3. Quality information per product

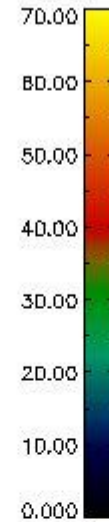
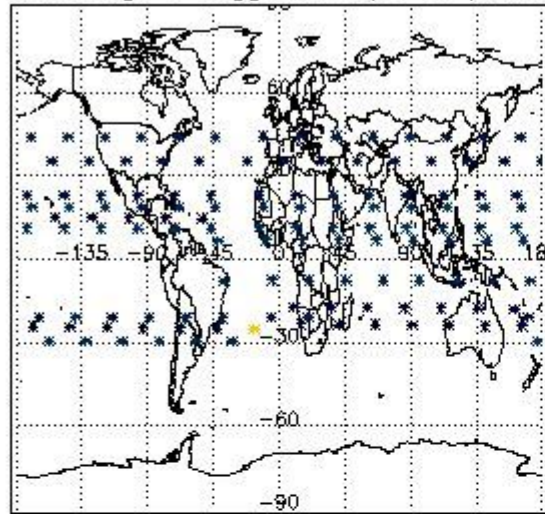
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

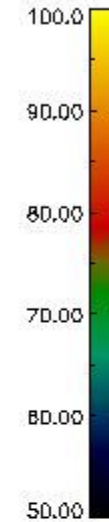
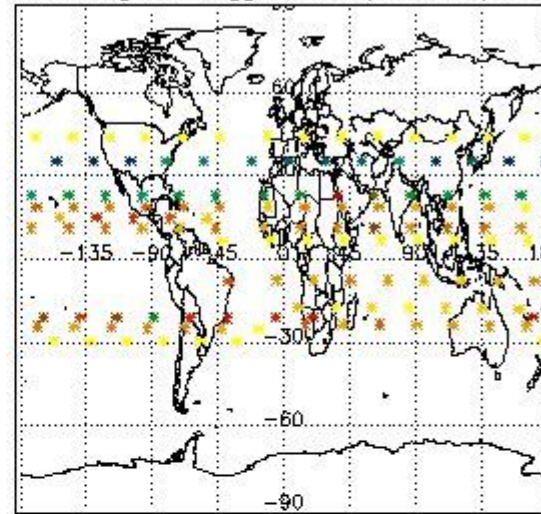


3.2 Plot quality information per product (world map)

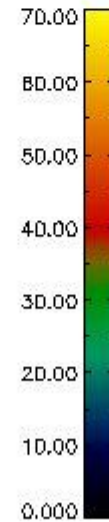
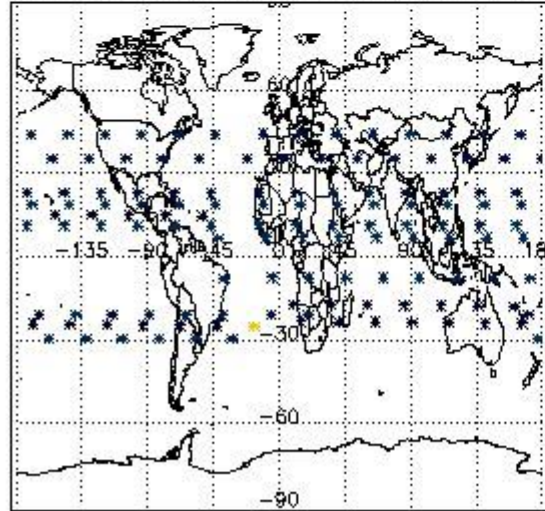
Percentage of flagged data per O3 profile



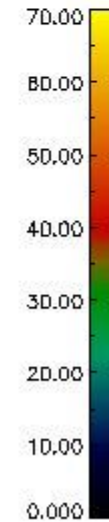
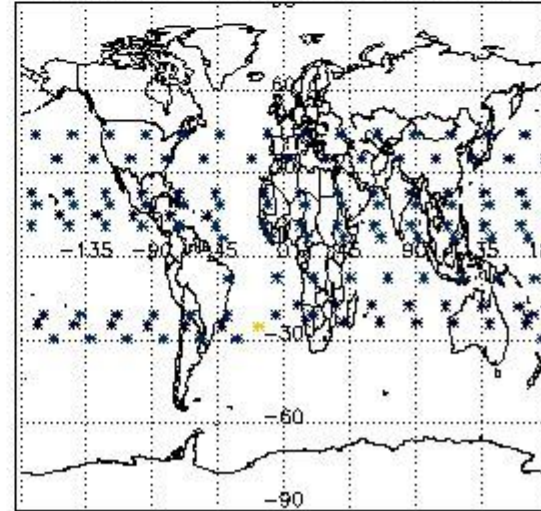
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

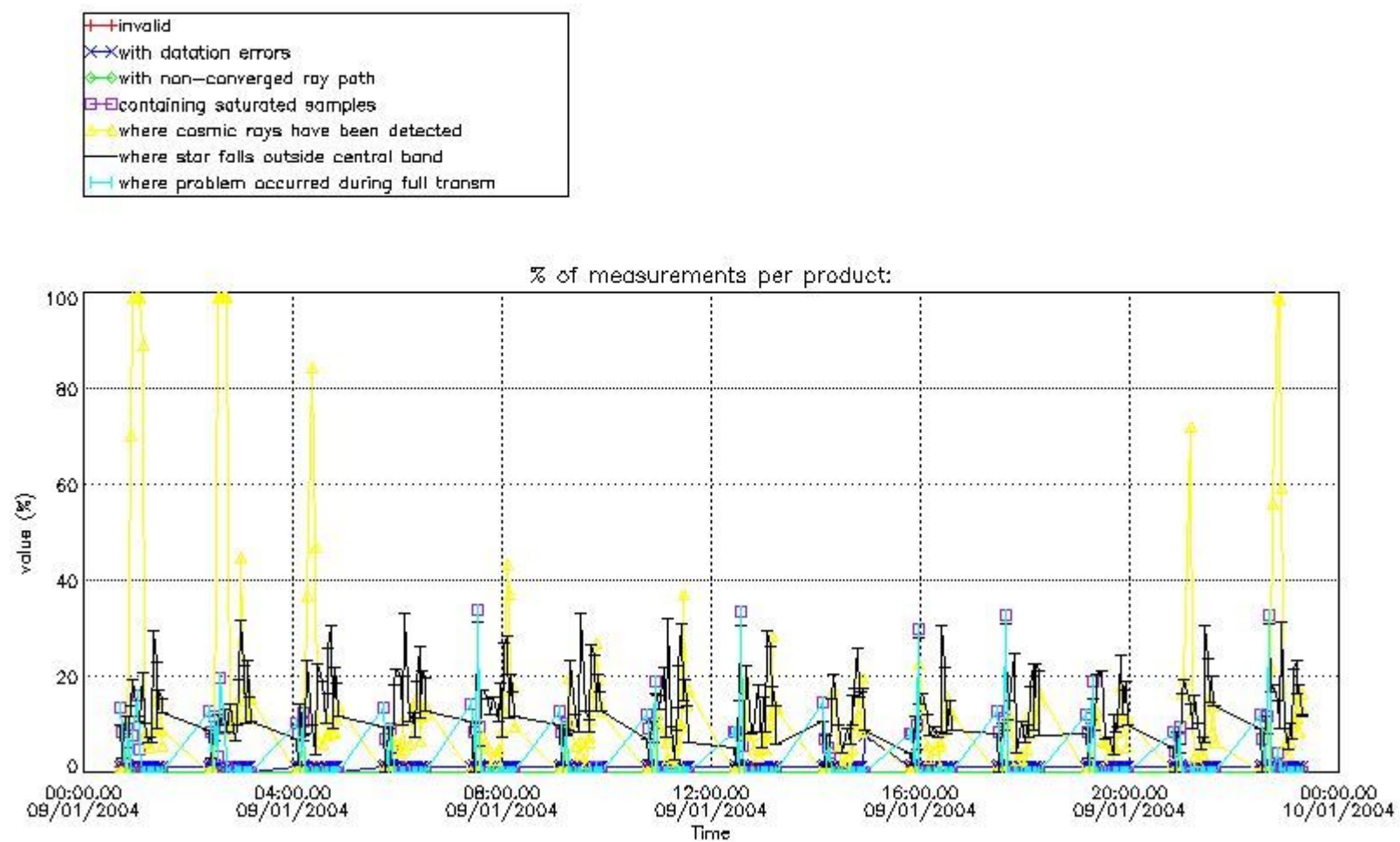


4. Level 1 quality information per product

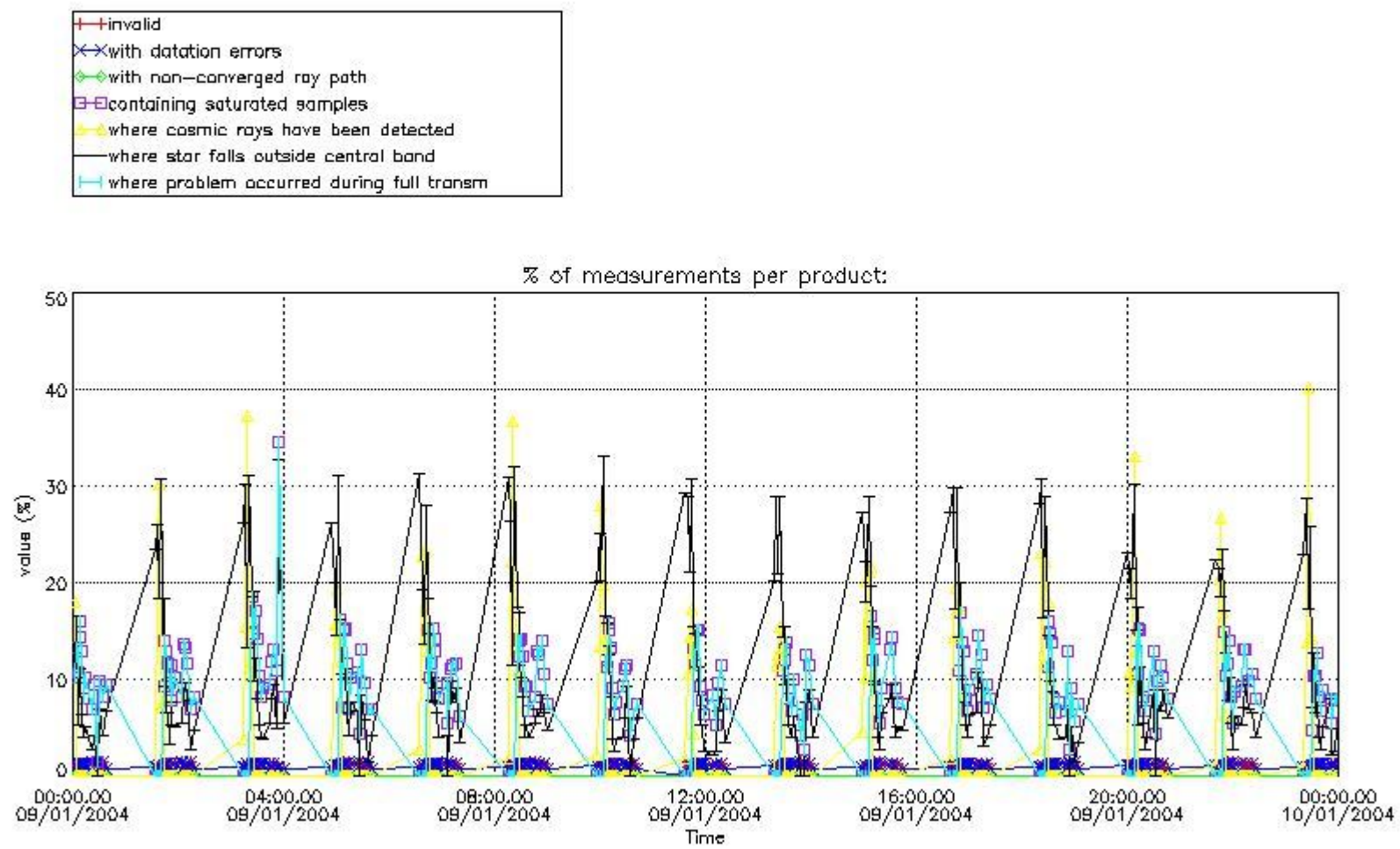
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

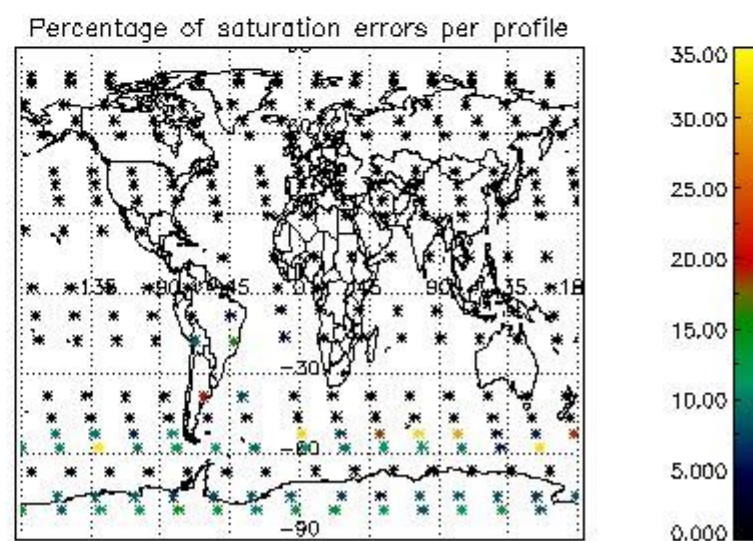
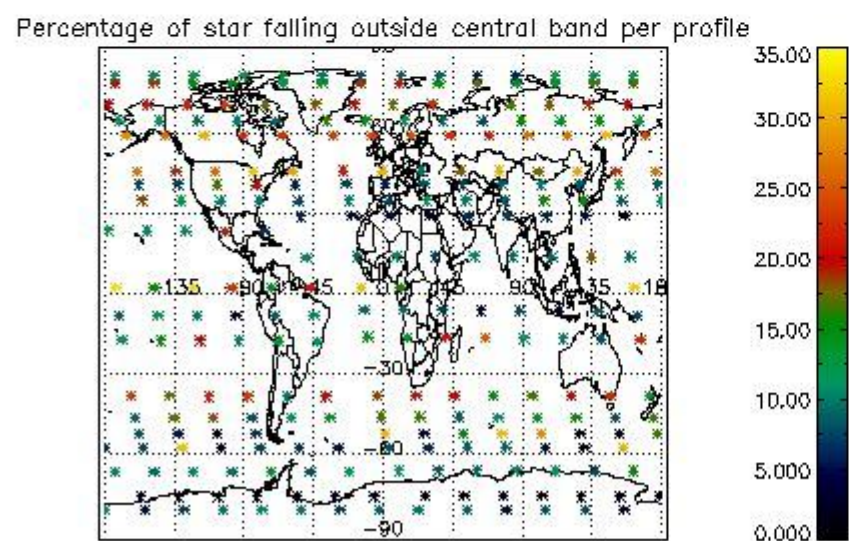
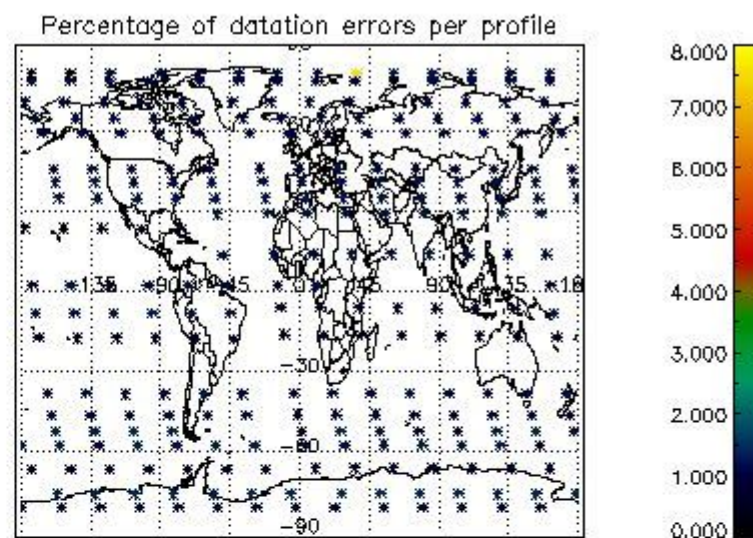
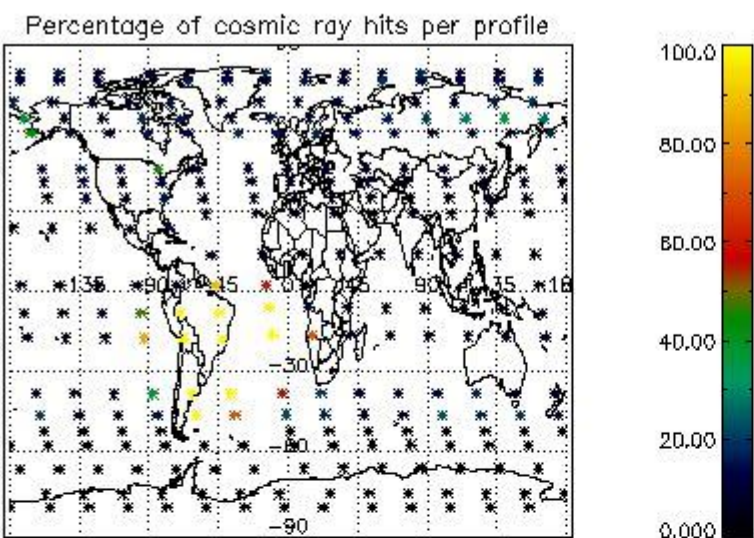


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

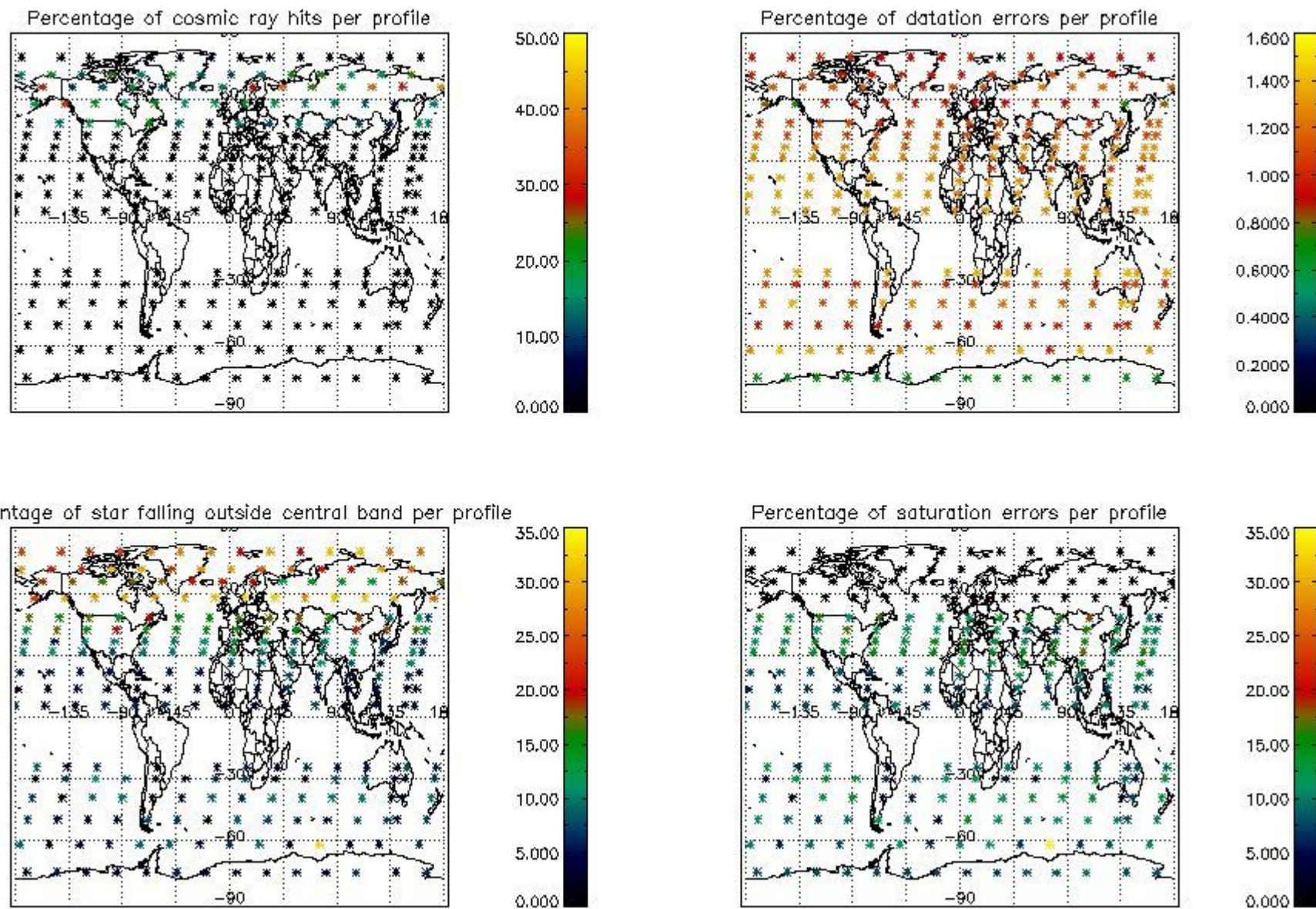


4.2 Plot quality information per product coming from level 1b processing (world map)

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

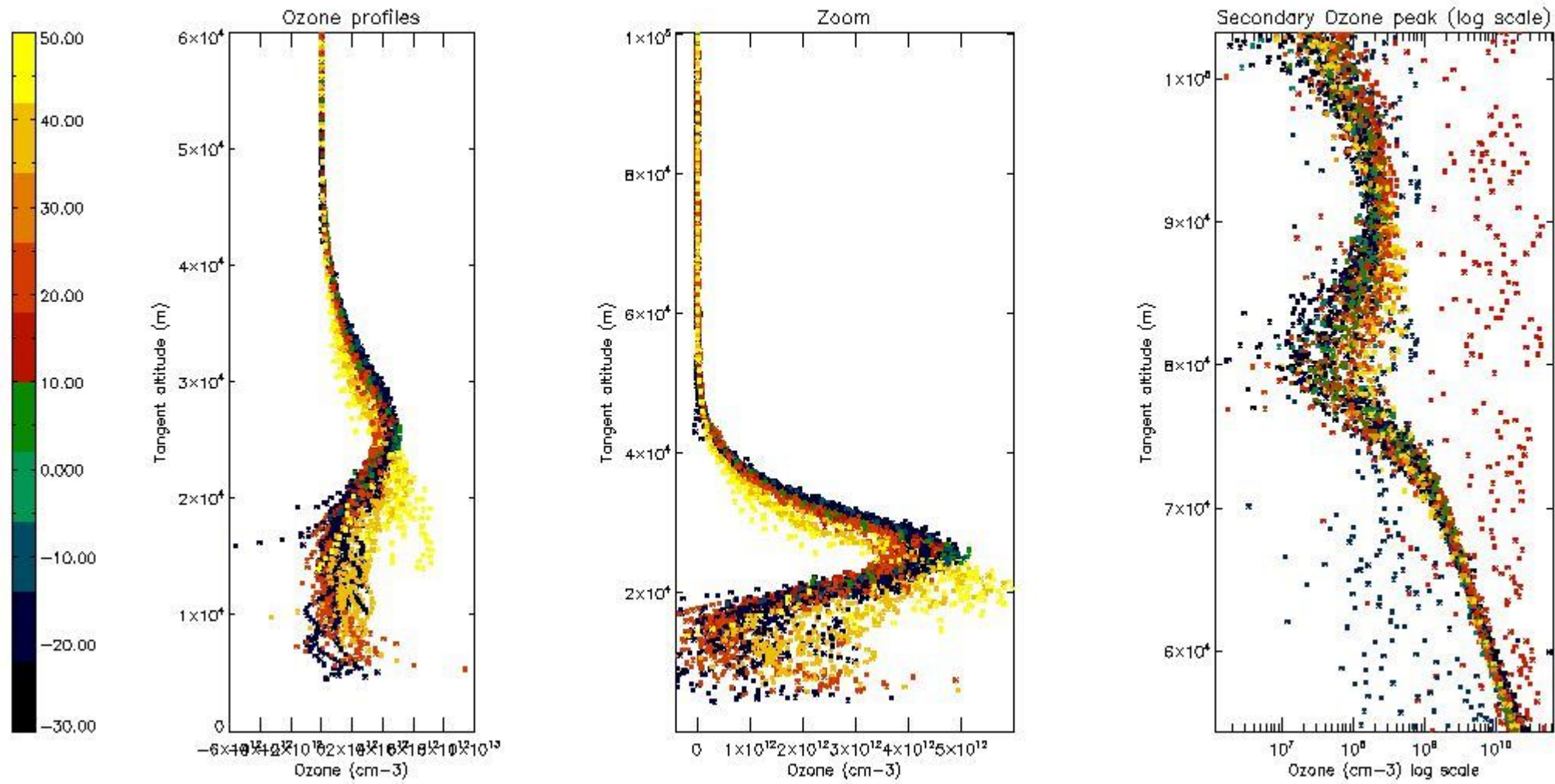
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	17

STD < 10	14
STD < 5	10

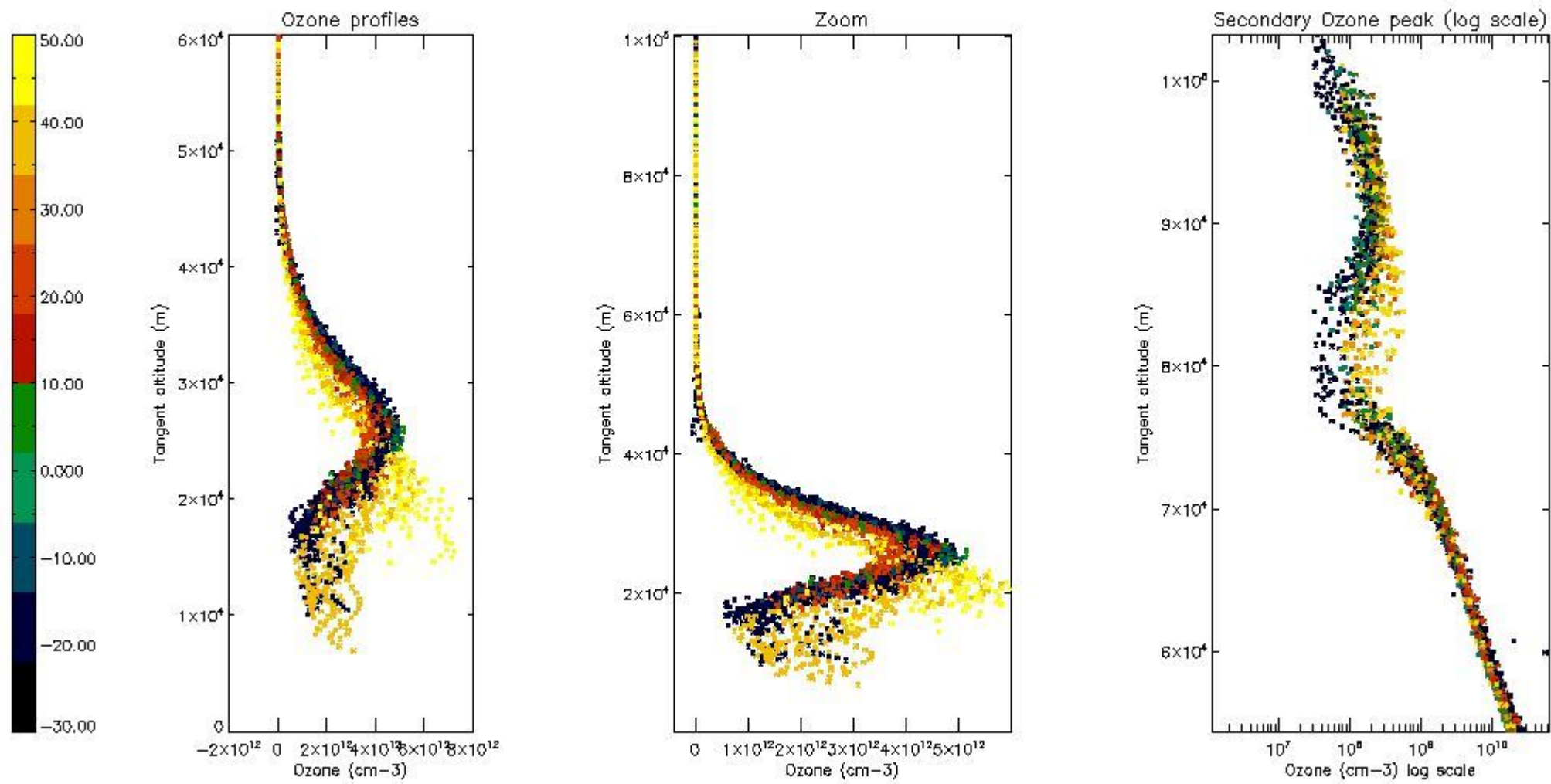
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



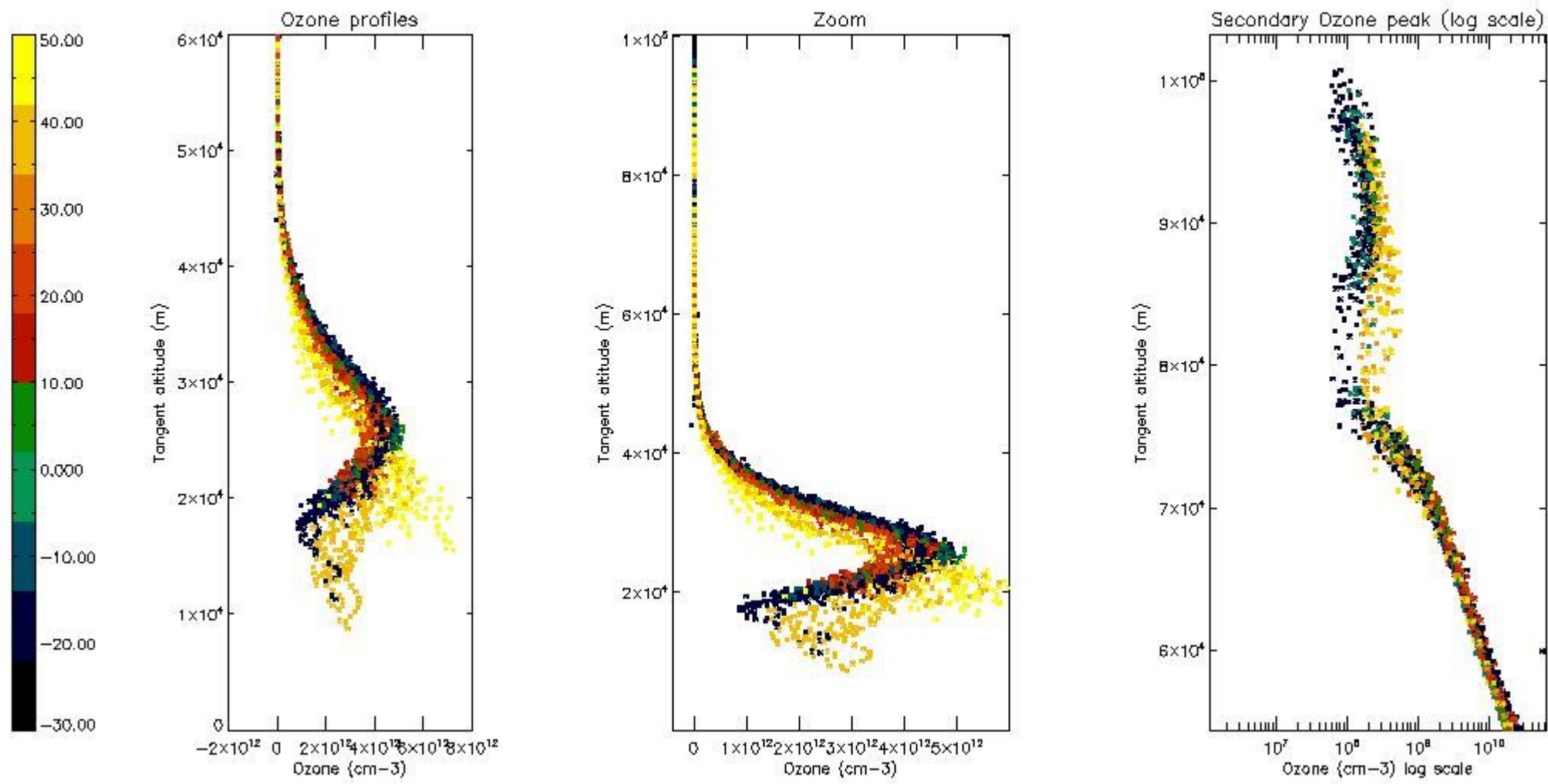
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



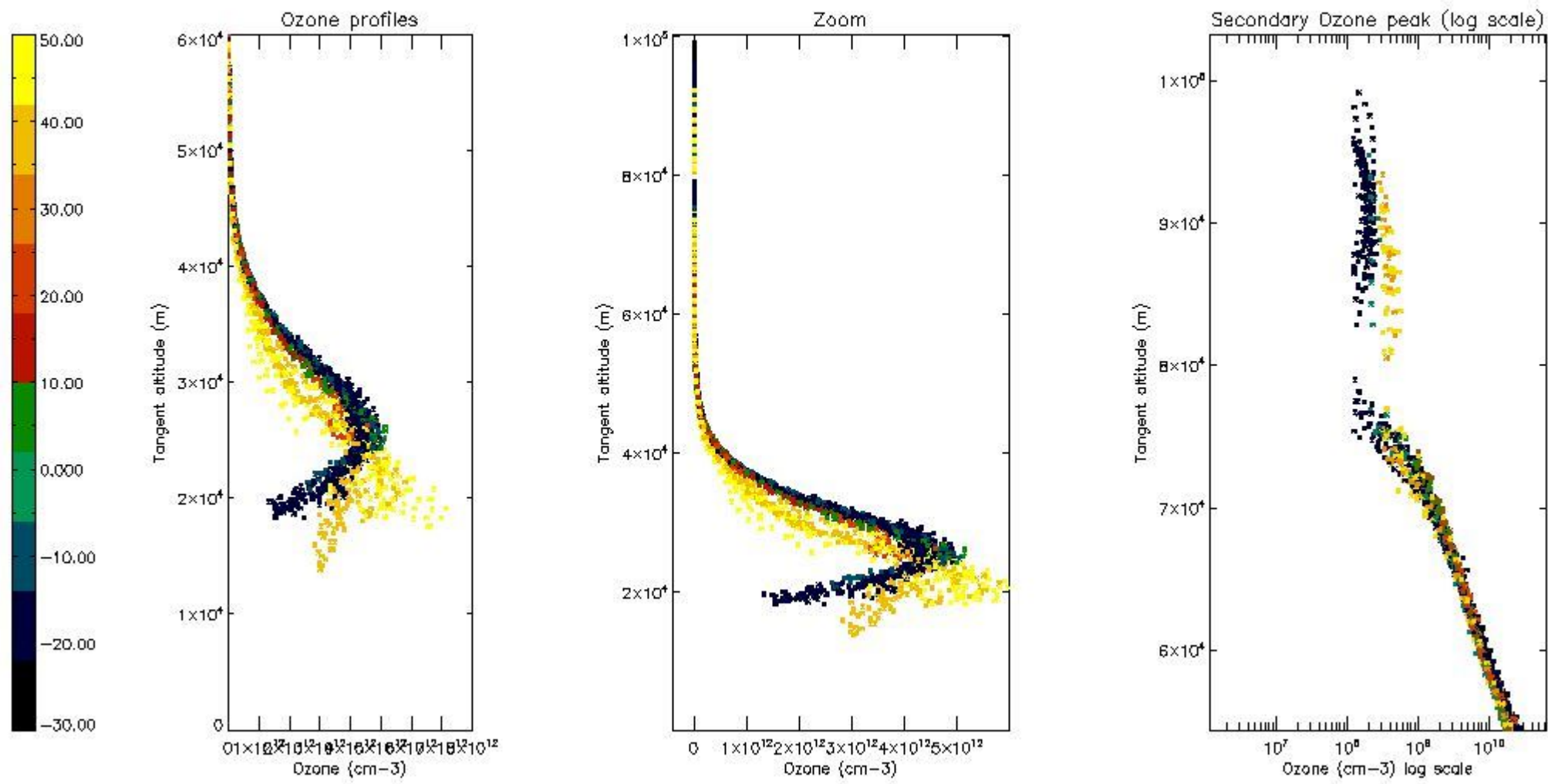
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



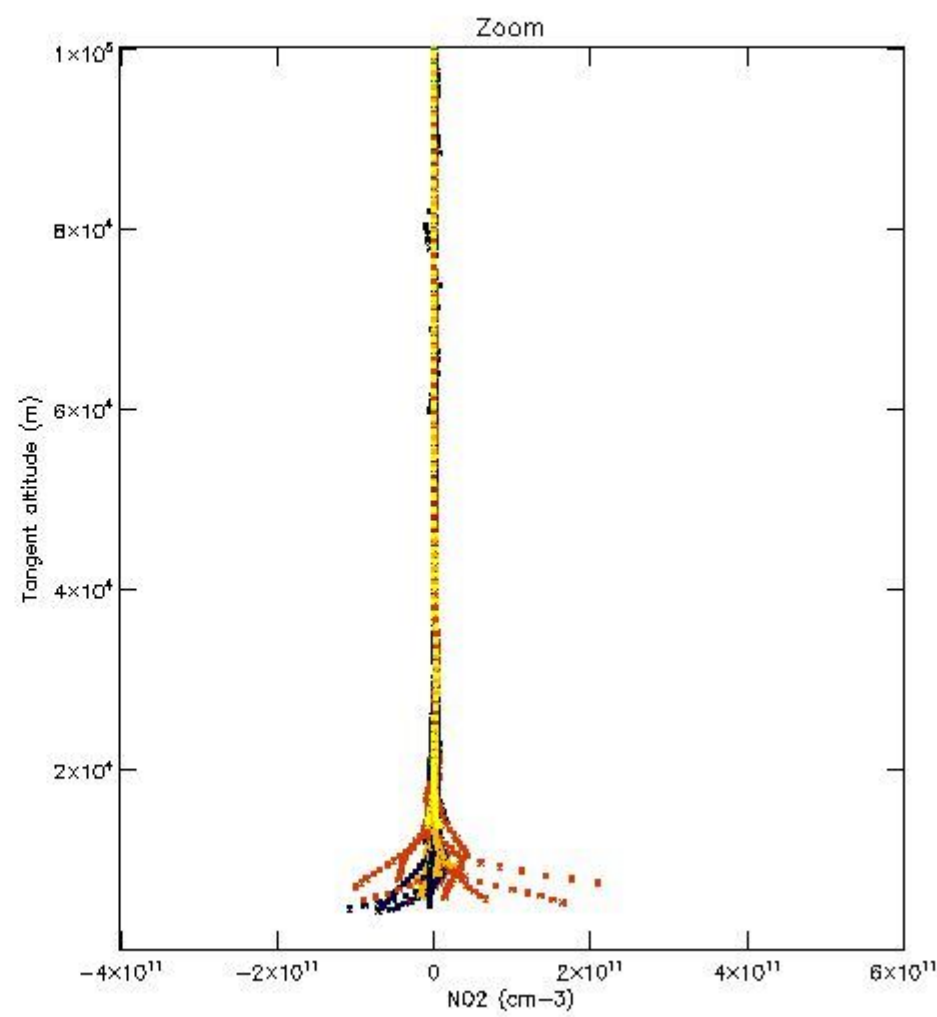
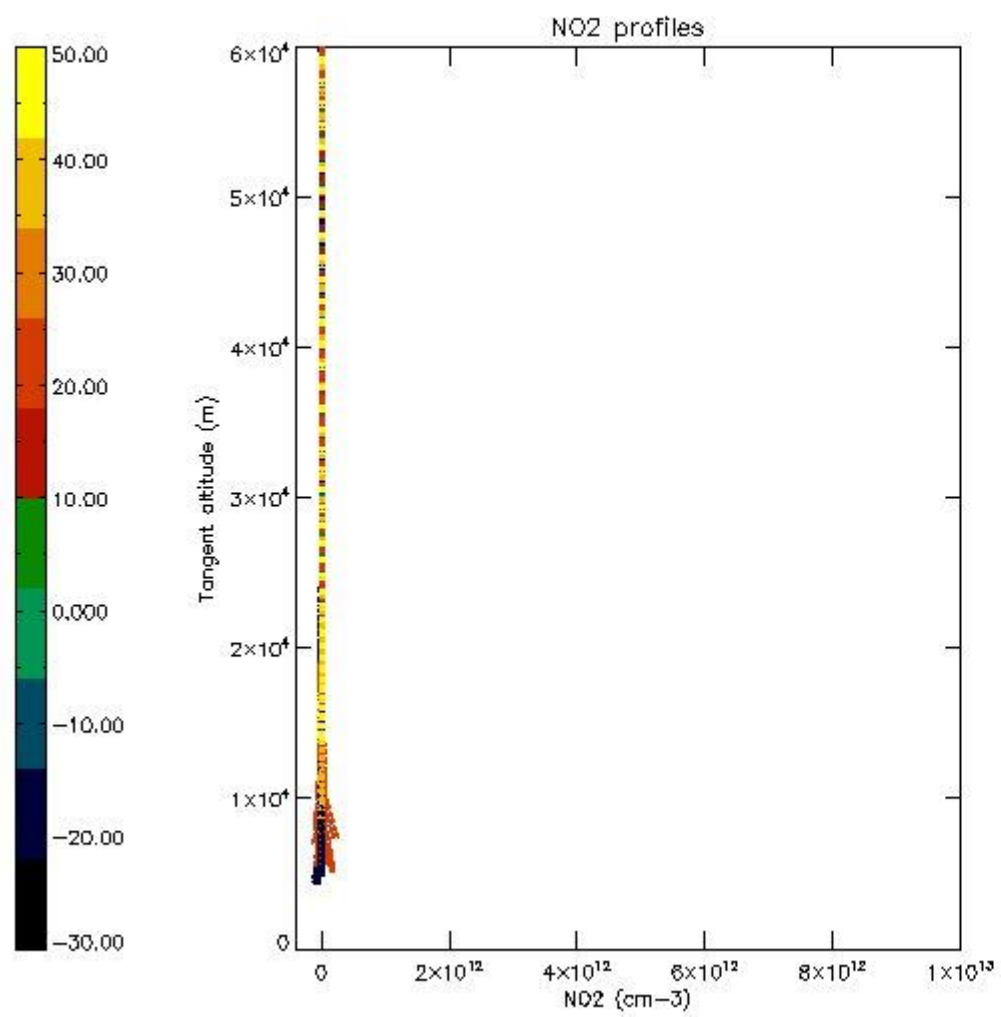
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



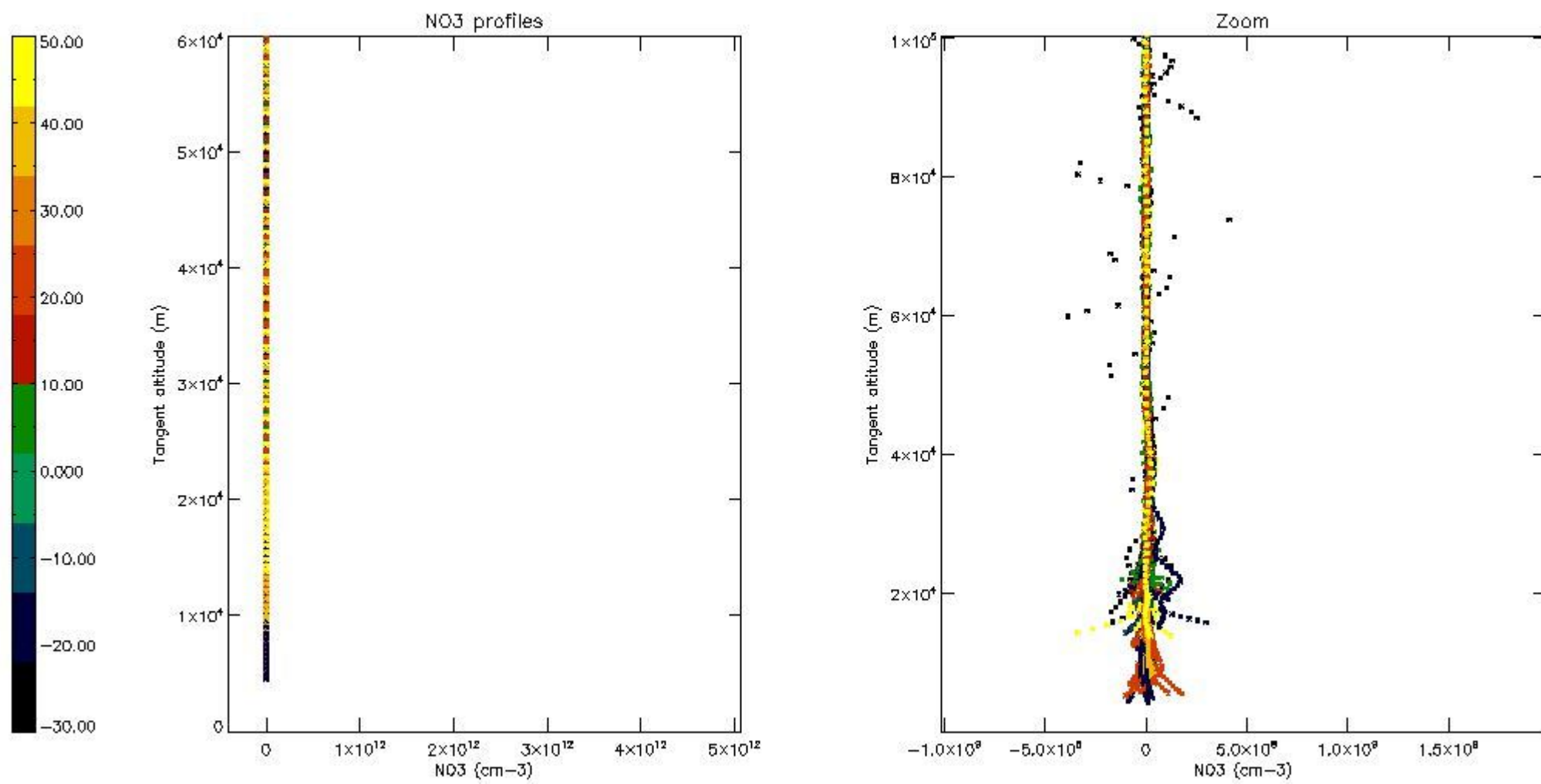
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



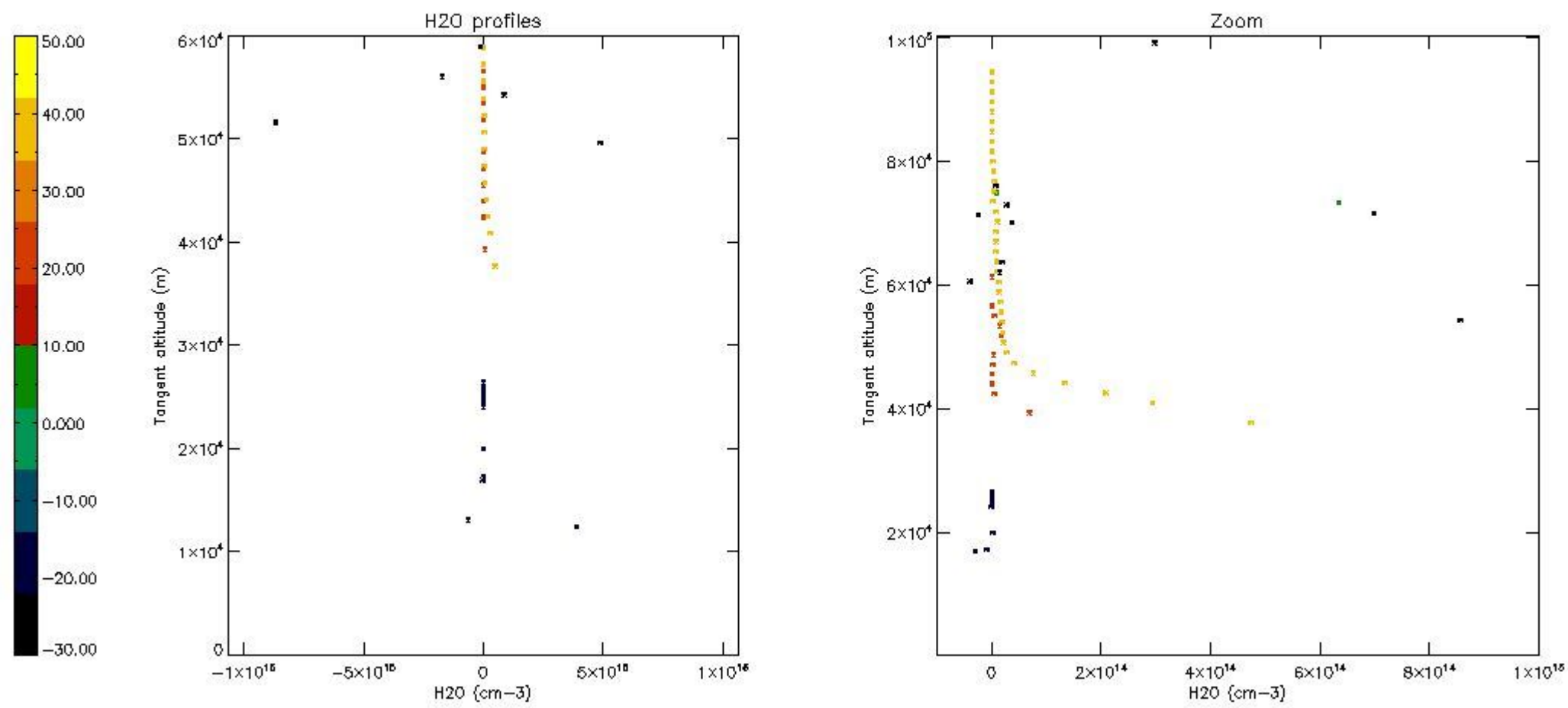
5.7 Plot NO3 profiles for all STD (dark without errors)

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-2004 00:02:33
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-JAN-2004 00:02:33
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-JAN-2004 00:02:33

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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	18APR2013 16:53:01
Data source version	GOMOS/6.01
Start time of products	09-01-2004 (09JAN2004 00:00:00)
Stop time of products	10-01-2004 (10JAN2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	522
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__2PRFIN20040109_000233_000000452023_00145_09718_0570.N1	09-JAN-2004 00:02:33	Twilight	44.500	44	24Gam Gem	1.9280	11000.	89	9718	No
2	GOM_NL__2PRFIN20040109_000414_000000462023_00145_09718_0571.N1	09-JAN-2004 00:04:14	Bright	45.500	151	13Mu Gem	2.8900	3000.0	91	9718	No
3	GOM_NL__2PRFIN20040109_000548_000000382023_00145_09718_0572.N1	09-JAN-2004 00:05:48	Bright	37.500	28	12Bet Tau	1.6500	15200.	75	9718	No
4	GOM_NL__2PRFIN20040109_000712_000000412023_00145_09718_0573.N1	09-JAN-2004 00:07:12	Bright	40.500	114	3lot Aur	2.6930	4600.0	81	9718	No
5	GOM_NL__2PRFIN20040109_000847_000000492023_00145_09718_0574.N1	09-JAN-2004 00:08:47	Bright	49.000	24	66Alp Gem	1.5800	10200.	98	9718	No
6	GOM_NL__2PRFIN20040109_001032_000000392023_00145_09718_0575.N1	09-JAN-2004 00:10:32	Bright	39.000	42	34Bet Aur	1.9000	10200.	78	9718	No
7	GOM_NL__2PRFIN20040109_001213_000000382023_00145_09718_0576.N1	09-JAN-2004 00:12:13	Bright	37.500	175	39Del Per	3.0100	19400.	75	9718	No
8	GOM_NL__2PRFIN20040109_001428_000000402023_00145_09718_0577.N1	09-JAN-2004 00:14:28	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	9718	No
9	GOM_NL__2PRFIN20040109_002256_000000362023_00145_09718_0578.N1	09-JAN-2004 00:22:56	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	9718	No
10	GOM_NL__2PRFIN20040109_002436_000000482023_00145_09718_0579.N1	09-JAN-2004 00:24:36	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	9718	No
11	GOM_NL__2PRFIN20040109_002709_000000372023_00145_09718_0580.N1	09-JAN-2004 00:27:09	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	9718	No
12	GOM_NL__2PRFIN20040109_003014_000000512023_00145_09718_0581.N1	09-JAN-2004 00:30:14	Bright	51.000	32	77Eps UMa	1.7630	11000.	102	9718	No
13	GOM_NL__2PRFIN20040109_003337_000000372023_00145_09718_0582.N1	09-JAN-2004 00:33:37	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	9718	No
14	GOM_NL__2PRFIN20040109_003752_000000742023_00145_09718_0583.N1	09-JAN-2004 00:37:52	Bright	74.000	152	12Alp2CVn	2.8900	11000.	148	9718	No
15	GOM_NL__2PRFIN20040109_004230_000000522023_00145_09718_0584.N1	09-JAN-2004 00:42:30	Bright	51.500	83		2.3780	11000.	103	9718	No
16	GOM_NL__2PRFIN20040109_004436_000000372023_00145_09718_0585.N1	09-JAN-2004 00:44:36	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	9718	No
17	GOM_NL__2PRFIN20040109_004730_000000732023_00145_09718_0586.N1	09-JAN-2004 00:47:30	Bright	73.000	111	8Eta Boo	2.6800	6000.0	146	9718	No
18	GOM_NL__2PRFIN20040109_005012_000000392023_00145_09718_0587.N1	09-JAN-2004 00:50:12	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	9718	No
19	GOM_NL__2PRFIN20040109_005323_000000472023_00145_09718_0588.N1	09-JAN-2004 00:53:23	Twilight	47.000	104	27Bet Lib	2.6140	13100.	94	9718	No
20	GOM_NL__2PRFIN20040109_005540_000000472023_00145_09718_0589.N1	09-JAN-2004 00:55:40	Twilight	46.500	80	7Del Sco	2.3160	30000.	93	9718	No
21	GOM_NL__2PRFIN20040109_010130_000000822023_00145_09718_0590.N1	09-JAN-2004 01:01:30	Dark	81.500	15	67Alp Vir	0.97600	28000.	163	9718	No
22	GOM_NL__2PRFIN20040109_010410_000000432023_00145_09718_0591.N1	09-JAN-2004 01:04:10	Dark	43.000	78	Alp Lup	2.3040	28000.	86	9718	No
23	GOM_NL__2PRFIN20040109_010705_000000462023_00146_09719_0555.N1	09-JAN-2004 01:07:05	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	9719	No
24	GOM_NL__2PRFIN20040109_011016_000000442023_00146_09719_0556.N1	09-JAN-2004 01:10:16	Dark	43.500	20	Bet Cru	1.2530	30000.	87	9719	No
25	GOM_NL__2PRFIN20040109_011434_000000412023_00146_09719_0557.N1	09-JAN-2004 01:14:34	Dark	40.500	124	The Car	2.7640	30000.	81	9719	No
26	GOM_NL__2PRFIN20040109_011612_000000412023_00146_09719_0558.N1	09-JAN-2004 01:16:12	Dark	40.500	29	Bet Car	1.6720	10200.	81	9719	No
27	GOM_NL__2PRFIN20040109_011754_000000412023_00146_09719_0559.N1	09-JAN-2004 01:17:54	Dark	41.000	71	lot Car	2.2460	7700.0	82	9719	No
28	GOM_NL__2PRFIN20040109_011918_000000542023_00146_09719_0560.N1	09-JAN-2004 01:19:18	Dark	54.000	41	Eps Car	1.8600	4100.0	108	9719	No
29	GOM_NL__2PRFIN20040109_012310_000000512023_00146_09719_0561.N1	09-JAN-2004 01:23:10	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	9719	No
30	GOM_NL__2PRFIN20040109_012446_000000452023_00146_09719_0562.N1	09-JAN-2004 01:24:46	Dark	44.500	70	Zet Pup	2.2460	39000.	89	9719	No
31	GOM_NL__2PRFIN20040109_012637_000000472023_00146_09719_0563.N1	09-JAN-2004 01:26:37	Straylight	46.500	117	Pi Pup	2.7060	3800.0	93	9719	No
32	GOM_NL__2PRFIN20040109_012916_000000462023_00146_09719_0564.N1	09-JAN-2004 01:29:16	Straylight	45.500	23	21Eps CMa	1.5020	26000.	91	9719	No
33	GOM_NL__2PRFIN20040109_013044_000000452023_00146_09719_0565.N1	09-JAN-2004 01:30:44	Straylight	45.000	179	24Omi2CMa	3.0320	24000.	90	9719	No
34	GOM_NL__2PRFIN20040109_013303_000000512023_00146_09719_0566.N1	09-JAN-2004 01:33:03	Straylight	51.000	1	9Alp CMa	-1.4400	11000.	102	9719	No
35	GOM_NL__2PRFIN20040109_013611_000000522023_00146_09719_0567.N1	09-JAN-2004 01:36:11	Straylight	52.000	7	19Bet Ori	0.10000	14000.	104	9719	No
36	GOM_NL__2PRFIN20040109_013756_000000472023_00146_09719_0568.N1	09-JAN-2004 01:37:56	Straylight	46.500	30	46Eps Ori	1.6940	30000.	93	9719	No
37	GOM_NL__2PRFIN20040109_014030_000000702023_00146_09719_0569.N1	09-JAN-2004 01:40:30	Twilight	70.000	8	10Alp CMi	0.40000	6500.0	140	9719	No
38	GOM_NL__2PRFIN20040109_014309_000000442023_00146_09719_0570.N1	09-JAN-2004 01:43:09	Twilight	43.500	44	24Gam Gem	1.9280	11000.	87	9719	No
39	GOM_NL__2PRFIN20040109_014450_000000472023_00146_09719_0571.N1	09-JAN-2004 01:44:50	Bright	46.500	151	13Mu Gem	2.8900	3000.0	93	9719	No
40	GOM_NL__2PRFIN20040109_014624_000000392023_00146_09719_0572.N1	09-JAN-2004 01:46:24	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	9719	No
41	GOM_NL__2PRFIN20040109_014748_000000392023_00146_09719_0573.N1	09-JAN-2004 01:47:48	Bright	38.500	114	3lot Aur	2.6930	4600.0	77	9719	No
42	GOM_NL__2PRFIN20040109_014921_000000472023_00146_09719_0574.N1	09-JAN-2004 01:49:21	Bright	47.000	24	66Alp Gem	1.5800	10200.	94	9719	No



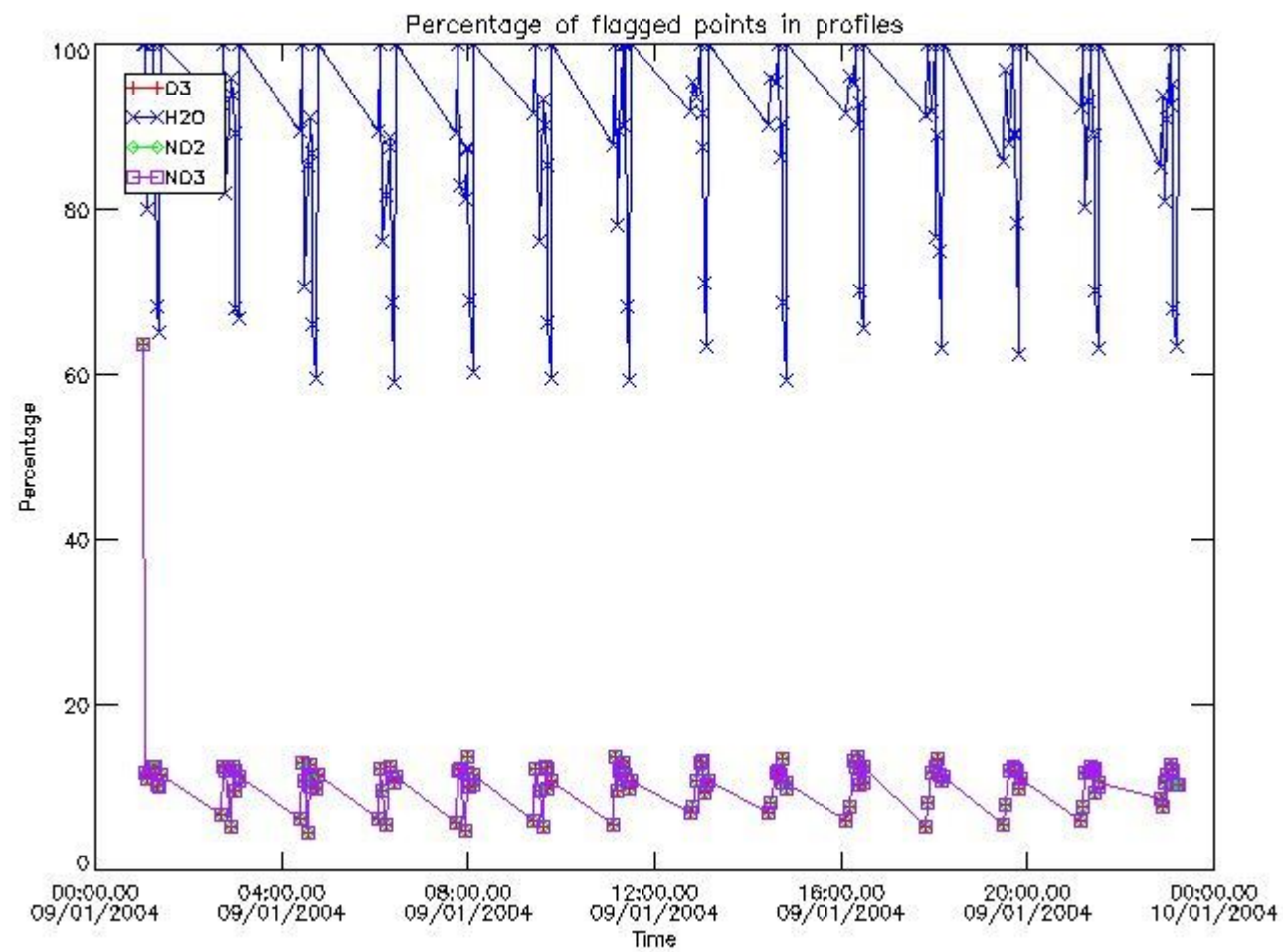
456	GOM_NL__2PRFIN20040109_210041_000000492023_00157_09730_0609.N1	09-JAN-2004 21:00:41	TwI_and_stray	49.000	104	27Bet Lib	2.6140	13100.	98	9730	No
457	GOM_NL__2PRFIN20040109_210256_000000472023_00157_09730_0610.N1	09-JAN-2004 21:02:56	TwI_and_stray	46.500	80	7Del Sco	2.3160	30000.	93	9730	No
458	GOM_NL__2PRFIN20040109_210906_000000862023_00157_09730_0611.N1	09-JAN-2004 21:09:06	Dark	85.500	15	67Alp Vir	0.97600	28000.	171	9730	No
459	GOM_NL__2PRFIN20040109_211158_000000662023_00157_09730_0612.N1	09-JAN-2004 21:11:58	Dark	65.500	169	46Gam Hya	2.9910	4700.0	131	9730	No
460	GOM_NL__2PRFIN20040109_211420_000000442023_00158_09731_0598.N1	09-JAN-2004 21:14:20	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	9731	No
461	GOM_NL__2PRFIN20040109_211734_000000442023_00158_09731_0599.N1	09-JAN-2004 21:17:34	Dark	43.500	20	Bet Cru	1.2530	30000.	87	9731	No
462	GOM_NL__2PRFIN20040109_212150_000000412023_00158_09731_0600.N1	09-JAN-2004 21:21:50	Dark	41.000	124	The Car	2.7640	30000.	82	9731	No
463	GOM_NL__2PRFIN20040109_212325_000000422023_00158_09731_0601.N1	09-JAN-2004 21:23:25	Dark	42.000	29	Bet Car	1.6720	10200.	84	9731	No
464	GOM_NL__2PRFIN20040109_212511_000000422023_00158_09731_0602.N1	09-JAN-2004 21:25:11	Dark	41.500	71	lot Car	2.2460	7700.0	83	9731	No
465	GOM_NL__2PRFIN20040109_212634_000000542023_00158_09731_0603.N1	09-JAN-2004 21:26:34	Dark	54.000	41	Eps Car	1.8600	4100.0	108	9731	No
466	GOM_NL__2PRFIN20040109_213024_000000512023_00158_09731_0604.N1	09-JAN-2004 21:30:24	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	9731	No
467	GOM_NL__2PRFIN20040109_213202_000000482023_00158_09731_0605.N1	09-JAN-2004 21:32:02	Dark	48.000	70	Zet Pup	2.2460	39000.	96	9731	No
468	GOM_NL__2PRFIN20040109_213351_000000482023_00158_09731_0606.N1	09-JAN-2004 21:33:51	Straylight	47.500	117	Pi Pup	2.7060	3800.0	95	9731	No
469	GOM_NL__2PRFIN20040109_213627_000000472023_00158_09731_0607.N1	09-JAN-2004 21:36:27	Straylight	47.000	23	21Eps CMa	1.5020	26000.	94	9731	No
470	GOM_NL__2PRFIN20040109_213755_000000482023_00158_09731_0608.N1	09-JAN-2004 21:37:55	Straylight	47.500	179	24Omi2CMa	3.0320	24000.	95	9731	No
471	GOM_NL__2PRFIN20040109_214016_000000492023_00158_09731_0609.N1	09-JAN-2004 21:40:16	Straylight	49.000	1	9Alp CMa	-1.4400	11000.	98	9731	No
472	GOM_NL__2PRFIN20040109_214325_000000492023_00158_09731_0610.N1	09-JAN-2004 21:43:25	Straylight	49.000	7	19Bet Ori	0.10000	14000.	98	9731	No
473	GOM_NL__2PRFIN20040109_214511_000000432023_00158_09731_0611.N1	09-JAN-2004 21:45:11	Straylight	43.000	30	46Eps Ori	1.6940	30000.	86	9731	No
474	GOM_NL__2PRFIN20040109_214736_000000622023_00158_09731_0612.N1	09-JAN-2004 21:47:36	TwI_and_stray	62.000	8	10Alp CMi	0.40000	6500.0	124	9731	No
475	GOM_NL__2PRFIN20040109_215018_000000472023_00158_09731_0613.N1	09-JAN-2004 21:50:18	TwI_and_stray	47.000	44	24Gam Gem	1.9280	11000.	94	9731	No
476	GOM_NL__2PRFIN20040109_215159_000000442023_00158_09731_0614.N1	09-JAN-2004 21:51:59	Bright	43.500	151	13Mu Gem	2.8900	3000.0	87	9731	No
477	GOM_NL__2PRFIN20040109_215335_000000392023_00158_09731_0615.N1	09-JAN-2004 21:53:35	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	9731	No
478	GOM_NL__2PRFIN20040109_215501_000000402023_00158_09731_0616.N1	09-JAN-2004 21:55:01	Bright	39.500	114	3lot Aur	2.6930	4600.0	79	9731	No
479	GOM_NL__2PRFIN20040109_215746_000000372023_00158_09731_0617.N1	09-JAN-2004 21:57:46	Bright	37.000	149	45Eps Per	2.8880	30000.	74	9731	No
480	GOM_NL__2PRFIN20040109_220005_000000372023_00158_09731_0618.N1	09-JAN-2004 22:00:05	Bright	36.500	175	39Del Per	3.0100	19400.	73	9731	No
481	GOM_NL__2PRFIN20040109_220220_000000402023_00158_09731_0619.N1	09-JAN-2004 22:02:20	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	9731	No
482	GOM_NL__2PRFIN20040109_221043_000000382023_00158_09731_0620.N1	09-JAN-2004 22:10:43	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	9731	No
483	GOM_NL__2PRFIN20040109_221214_000000502023_00158_09731_0621.N1	09-JAN-2004 22:12:14	Bright	49.500	36	50Alp UMa	1.8000	6300.0	99	9731	No
484	GOM_NL__2PRFIN20040109_221454_000000422023_00158_09731_0622.N1	09-JAN-2004 22:14:54	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	9731	No
485	GOM_NL__2PRFIN20040109_221754_000000512023_00158_09731_0623.N1	09-JAN-2004 22:17:54	Bright	50.500	32	77Eps UMa	1.7630	11000.	101	9731	No
486	GOM_NL__2PRFIN20040109_222126_000000382023_00158_09731_0624.N1	09-JAN-2004 22:21:26	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	9731	No
487	GOM_NL__2PRFIN20040109_222536_000000752023_00158_09731_0625.N1	09-JAN-2004 22:25:36	Bright	74.500	152	12Alp2CVn	2.8900	11000.	149	9731	No
488	GOM_NL__2PRFIN20040109_223021_000000512023_00158_09731_0626.N1	09-JAN-2004 22:30:21	Bright	50.500	83		2.3780	11000.	101	9731	No
489	GOM_NL__2PRFIN20040109_223225_000000362023_00158_09731_0627.N1	09-JAN-2004 22:32:25	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	9731	No
490	GOM_NL__2PRFIN20040109_223529_000000742023_00158_09731_0628.N1	09-JAN-2004 22:35:29	Bright	74.000	111	8Eta Boo	2.6800	6000.0	148	9731	No
491	GOM_NL__2PRFIN20040109_223801_000000432023_00158_09731_0629.N1	09-JAN-2004 22:38:01	Bright	43.000	120	1Del Oph	2.7340	3200.0	86	9731	No
492	GOM_NL__2PRFIN20040109_223931_000000522023_00158_09731_0630.N1	09-JAN-2004 22:39:31	Bright	52.000	98	13Zet Oph	2.5710	30000.	104	9731	No
493	GOM_NL__2PRFIN20040109_224117_000000512023_00158_09731_0631.N1	09-JAN-2004 22:41:17	TwI_and_stray	50.500	104	27Bet Lib	2.6140	13100.	101	9731	No
494	GOM_NL__2PRFIN20040109_224332_000000472023_00158_09731_0632.N1	09-JAN-2004 22:43:32	TwI_and_stray	46.500	80	7Del Sco	2.3160	30000.	93	9731	No
495	GOM_NL__2PRFIN20040109_224943_000000872023_00158_09731_0633.N1	09-JAN-2004 22:49:43	Dark	87.000	15	67Alp Vir	0.97600	28000.	174	9731	No
496	GOM_NL__2PRFIN20040109_225235_000000662023_00158_09731_0634.N1	09-JAN-2004 22:52:35	Dark	65.500	169	46Gam Hya	2.9910	4700.0	131	9731	No
497	GOM_NL__2PRFIN20040109_225456_000000532023_00159_09732_0600.N1	09-JAN-2004 22:54:56	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	9732	No
498	GOM_NL__2PRFIN20040109_225810_000000442023_00159_09732_0601.N1	09-JAN-2004 22:58:10	Dark	44.000	20	Bet Cru	1.2530	30000.	88	9732	No
499	GOM_NL__2PRFIN20040109_230226_000000422023_00159_09732_0602.N1	09-JAN-2004 23:02:26	Dark	41.500	124	The Car	2.7640	30000.	83	9732	No
500	GOM_NL__2PRFIN20040109_230404_000000402023_00159_09732_0603.N1	09-JAN-2004 23:04:04	Dark	40.000	29	Bet Car	1.6720	10200.	80	9732	No
501	GOM_NL__2PRFIN20040109_230547_000000432023_00159_09732_0604.N1	09-JAN-2004 23:05:47	Dark	42.500	71	lot Car	2.2460	7700.0	85	9732	No
502	GOM_NL__2PRFIN20040109_230710_000000492023_00159_09732_0605.N1	09-JAN-2004 23:07:10	Dark	49.000	41	Eps Car	1.8600	4100.0	98	9732	No
503	GOM_NL__2PRFIN20040109_231100_000000502023_00159_09732_0606.N1	09-JAN-2004 23:11:00	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	9732	No
504	GOM_NL__2PRFIN20040109_231238_000000492023_00159_09732_0607.N1	09-JAN-2004 23:12:38	Dark	49.000	70	Zet Pup	2.2460	39000.	98	9732	No
505	GOM_NL__2PRFIN20040109_231427_000000472023_00159_09732_0608.N1	09-JAN-2004 23:14:27	Straylight	47.000	117	Pi Pup	2.7060	3800.0	94	9732	No
506	GOM_NL__2PRFIN20040109_231703_000000462023_00159_09732_0609.N1	09-JAN-2004 23:17:03	Straylight	46.000	23	21Eps CMa	1.5020	26000.	92	9732	No
507	GOM_NL__2PRFIN20040109_231831_000000472023_00159_09732_0610.N1	09-JAN-2004 23:18:31	Straylight	47.000	179	24Omi2CMa	3.0320	24000.	94	9732	No
508	GOM_NL__2PRFIN20040109_232049_000000532023_00159_09732_0611.N1	09-JAN-2004 23:20:49	Straylight	52.500	1	9Alp CMa	-1.4400	11000.	105	9732	No
509	GOM_NL__2PRFIN20040109_232403_000000512023_00159_09732_0612.N1	09-JAN-2004 23:24:03	Straylight	50.500	7	19Bet Ori	0.10000	14000.	101	9732	No
510	GOM_NL__2PRFIN20040109_232547_000000442023_00159_09732_0613.N1	09-JAN-2004 23:25:47	Straylight	43.500	30	46Eps Ori	1.6940	30000.	87	9732	No
511	GOM_NL__2PRFIN20040109_232813_000000622023_00159_09732_0614.N1	09-JAN-2004 23:28:13	TwI_and_stray	62.000	8	10Alp CMi	0.40000	6500.0	124	9732	No
512	GOM_NL__2PRFIN20040109_233053_000000432023_00159_09732_0615.N1	09-JAN-2004 23:30:53	TwI_and_stray	42.500	44	24Gam Gem	1.9280	11000.	85	9732	No
513	GOM_NL__2PRFIN20040109_233235_000000442023_00159_09732_0616.N1	09-JAN-2004 23:32:35	Bright	43.500	151	13Mu Gem	2.8900	3000.0	87	9732	No
514	GOM_NL__2PRFIN20040109_233410_000000392023_00159_09732_0617.N1	09-JAN-2004 23:34:10	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	9732	No

515	GOM_NL__2PRFIN20040109_233537_000000402023_00159_09732_0618.N1	09-JAN-2004 23:35:37	Bright	39.500	114	3lot Aur	2.6930	4600.0	79	9732	No
516	GOM_NL__2PRFIN20040109_233822_000000372023_00159_09732_0619.N1	09-JAN-2004 23:38:22	Bright	37.000	149	45Eps Per	2.8880	30000.	74	9732	No
517	GOM_NL__2PRFIN20040109_234040_000000382023_00159_09732_0620.N1	09-JAN-2004 23:40:40	Bright	37.500	175	39Del Per	3.0100	19400.	75	9732	No
518	GOM_NL__2PRFIN20040109_234257_000000392023_00159_09732_0621.N1	09-JAN-2004 23:42:57	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	9732	No
519	GOM_NL__2PRFIN20040109_235119_000000382023_00159_09732_0622.N1	09-JAN-2004 23:51:19	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	9732	No
520	GOM_NL__2PRFIN20040109_235249_000000462023_00159_09732_0623.N1	09-JAN-2004 23:52:49	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	9732	No
521	GOM_NL__2PRFIN20040109_235531_000000392023_00159_09732_0624.N1	09-JAN-2004 23:55:31	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	9732	No
522	GOM_NL__2PRFIN20040109_235830_000000512023_00159_09732_0625.N1	09-JAN-2004 23:58:30	Bright	50.500	32	77Eps UMa	1.7630	11000.	101	9732	No

3. Quality information per product

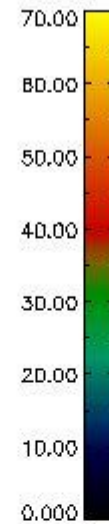
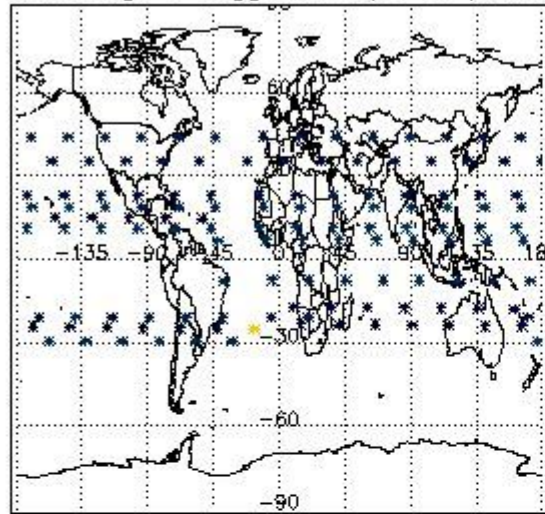
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

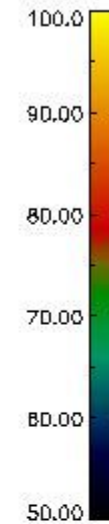
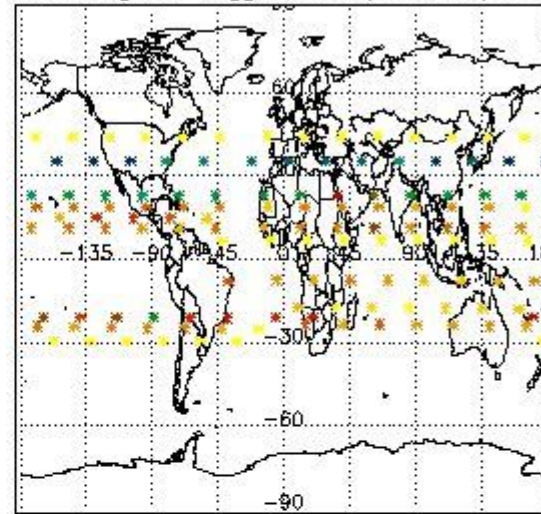


3.2 Plot quality information per product (world map)

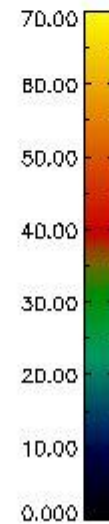
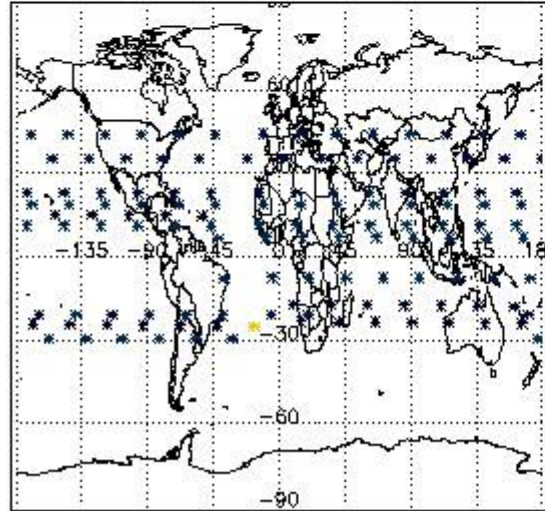
Percentage of flagged data per O3 profile



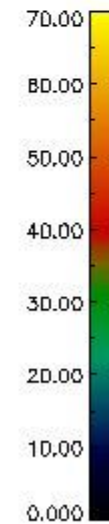
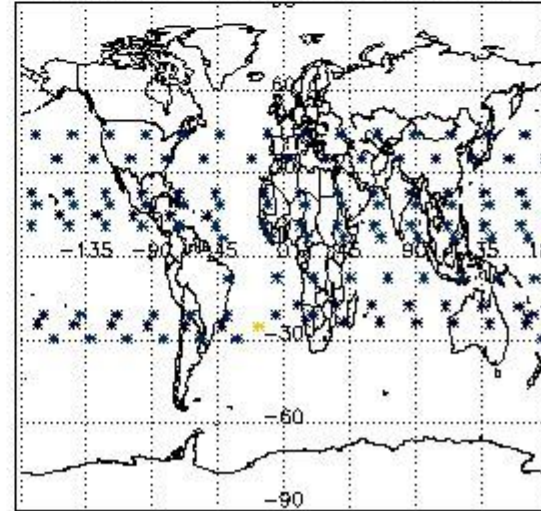
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

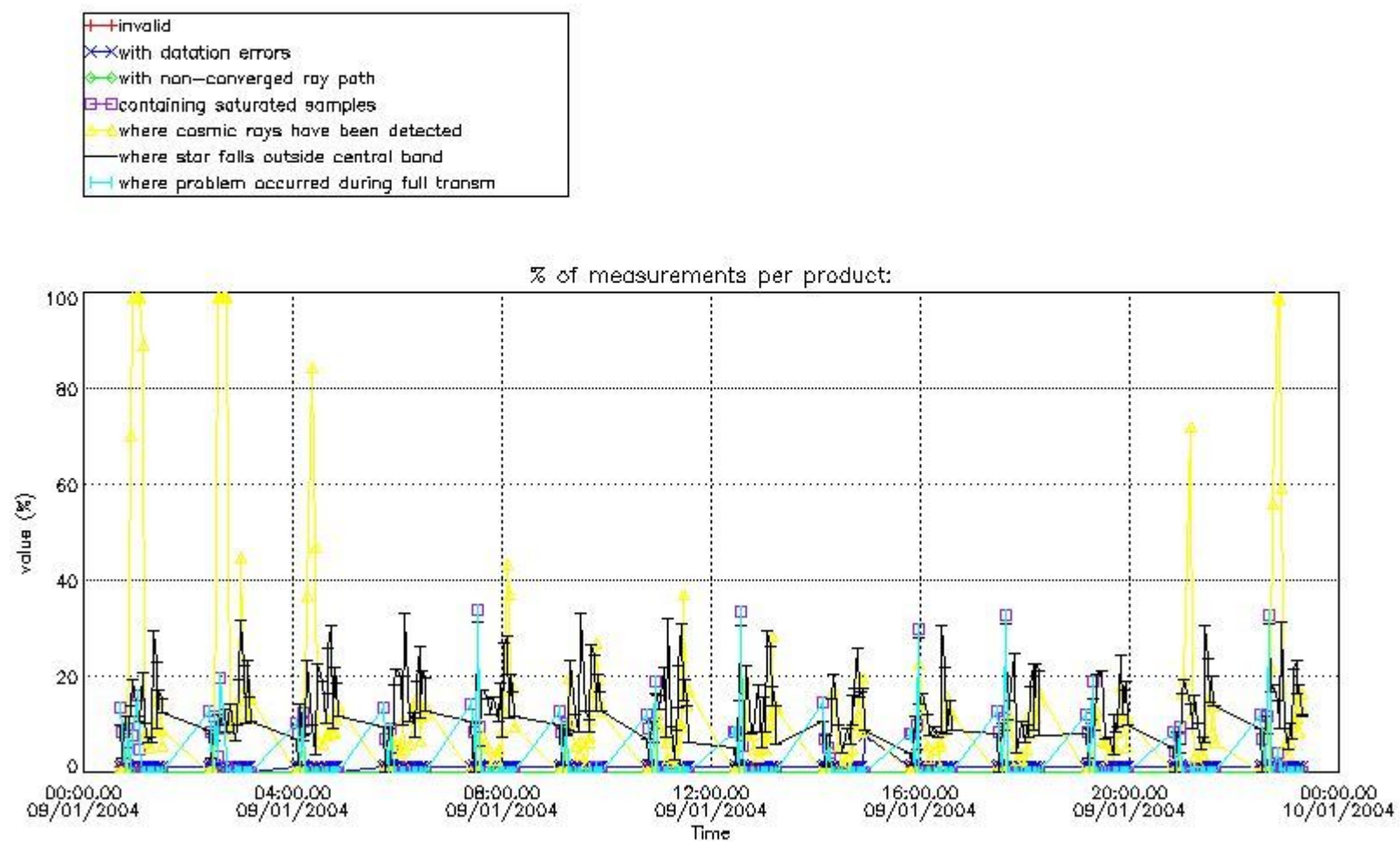


4. Level 1 quality information per product

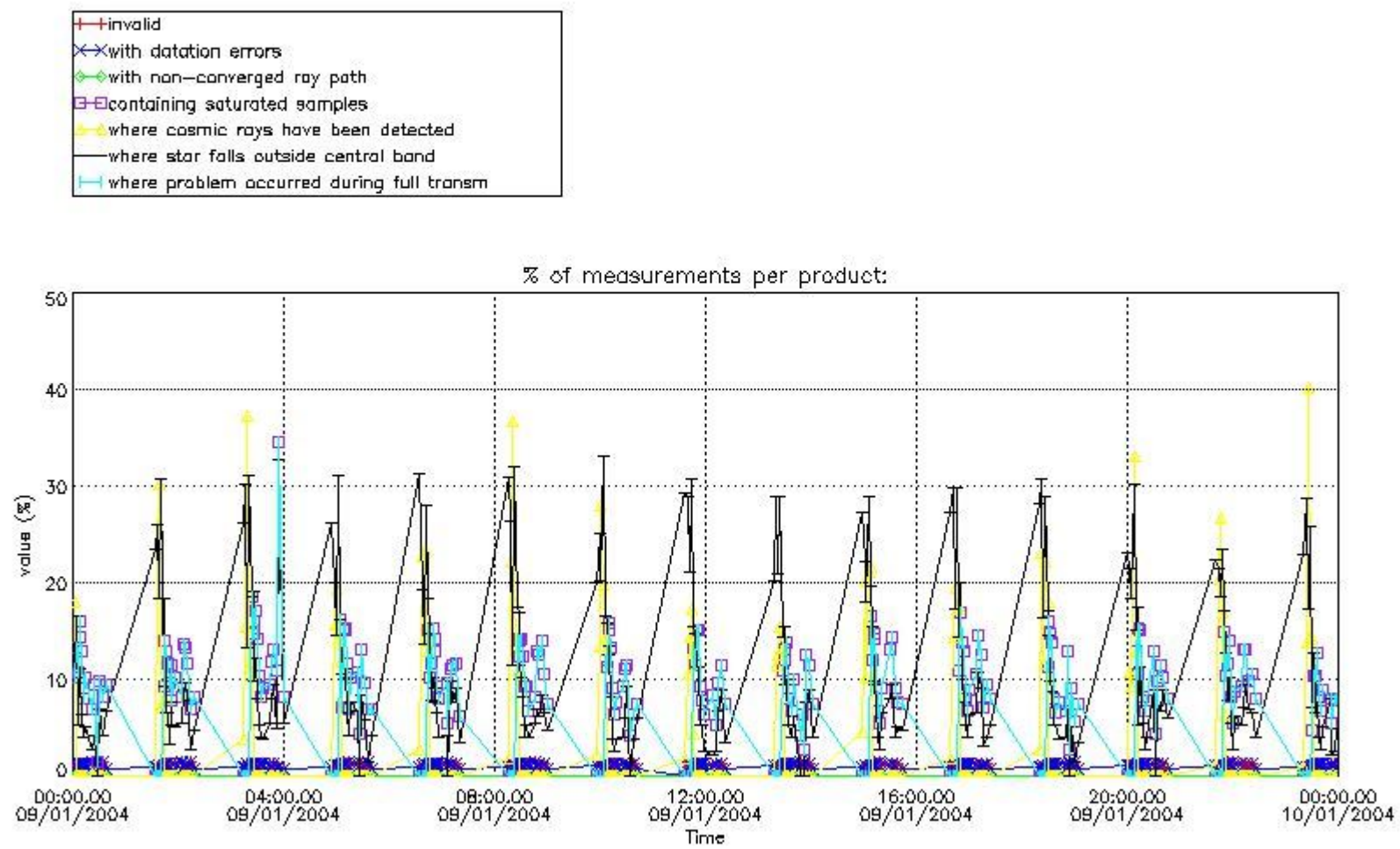
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

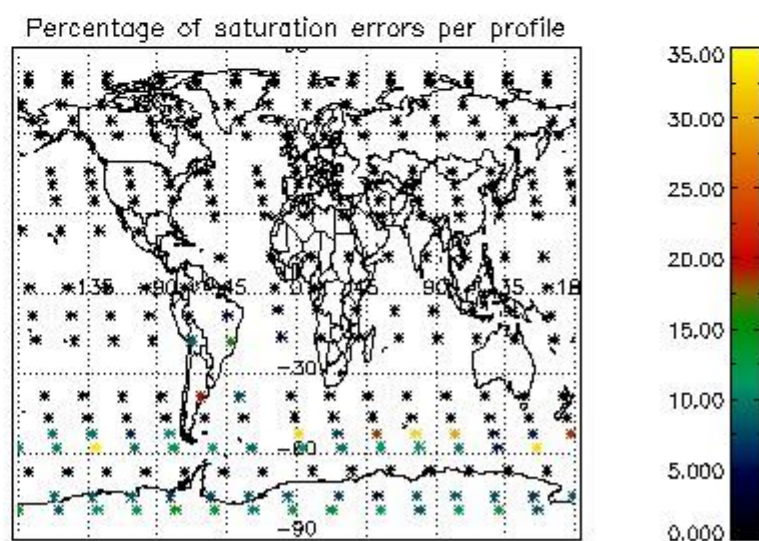
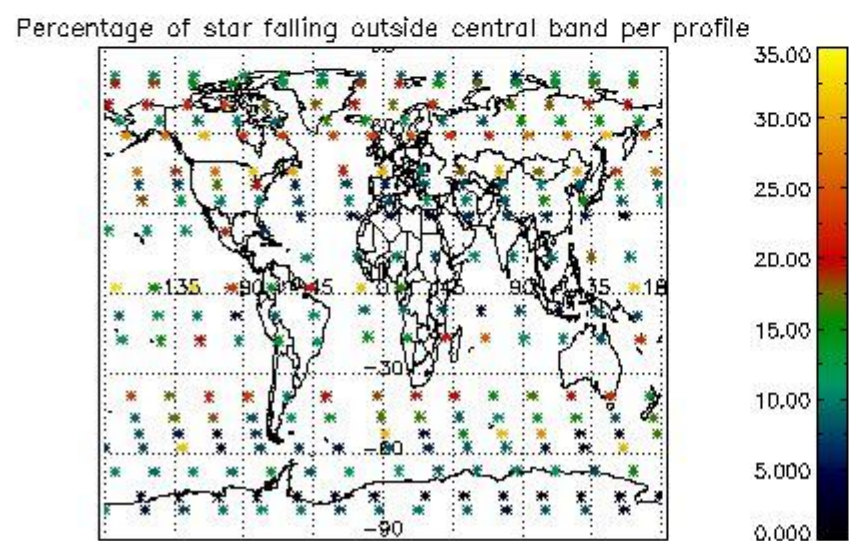
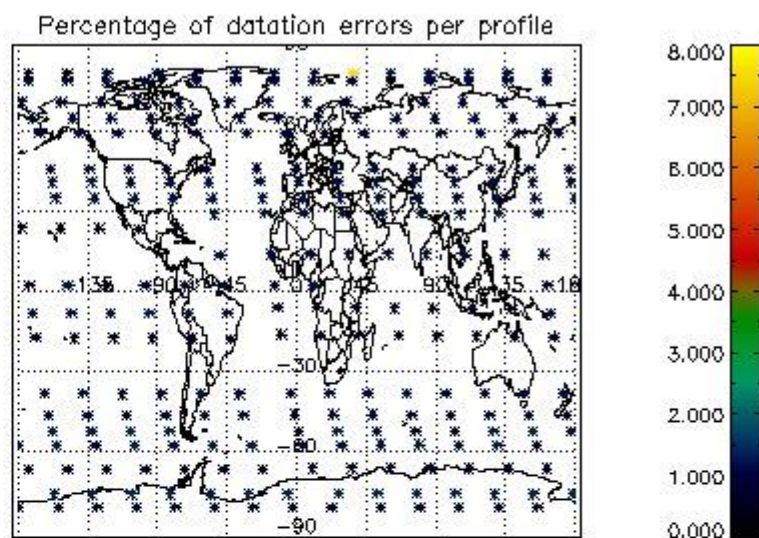
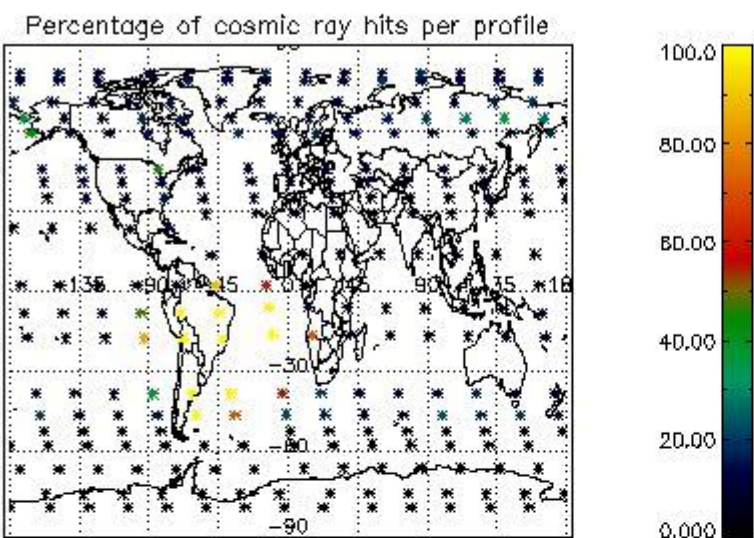


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

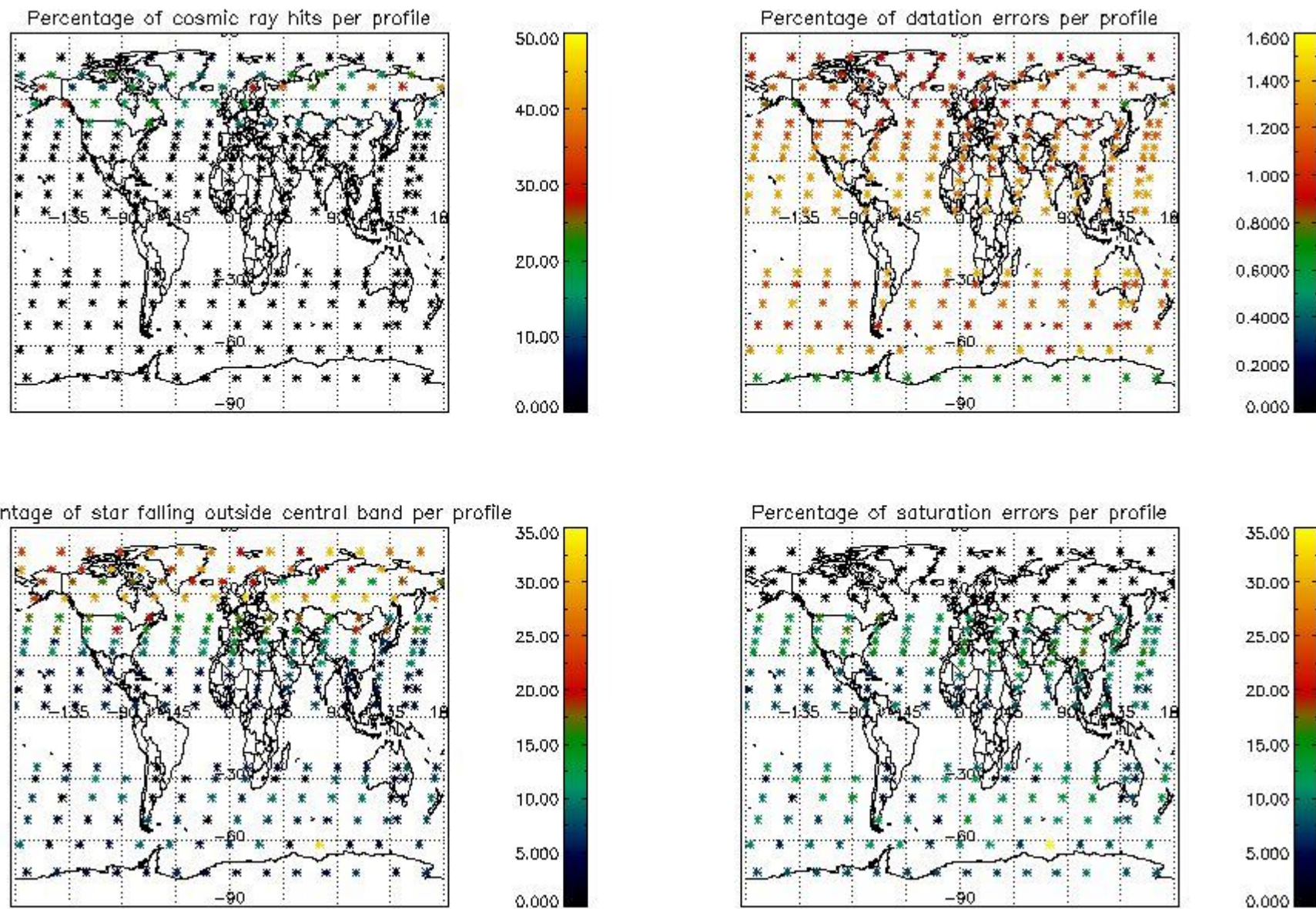


4.2 Plot quality information per product coming from level 1b processing (world map)

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

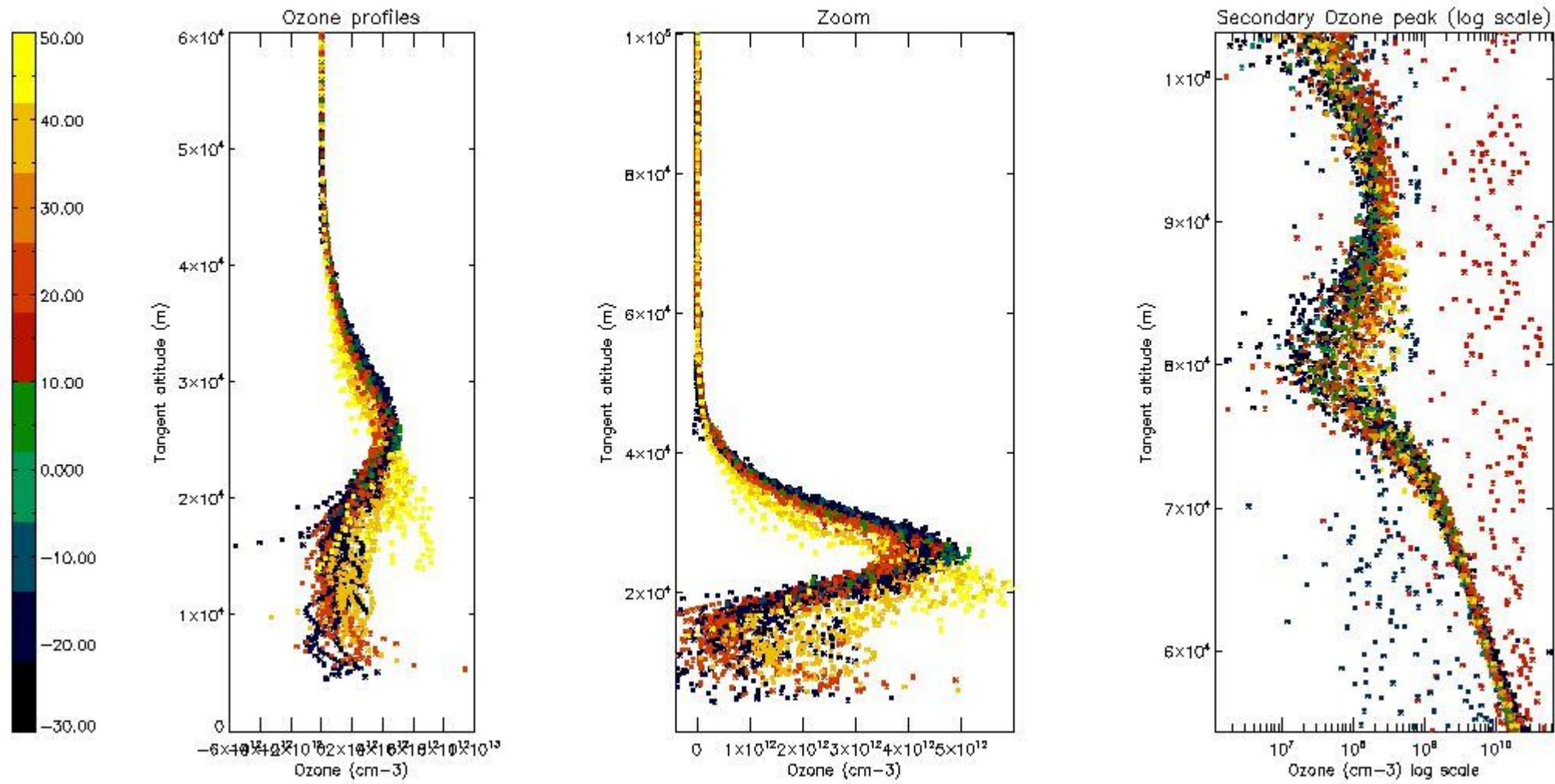
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	17

STD < 10	14
STD < 5	10

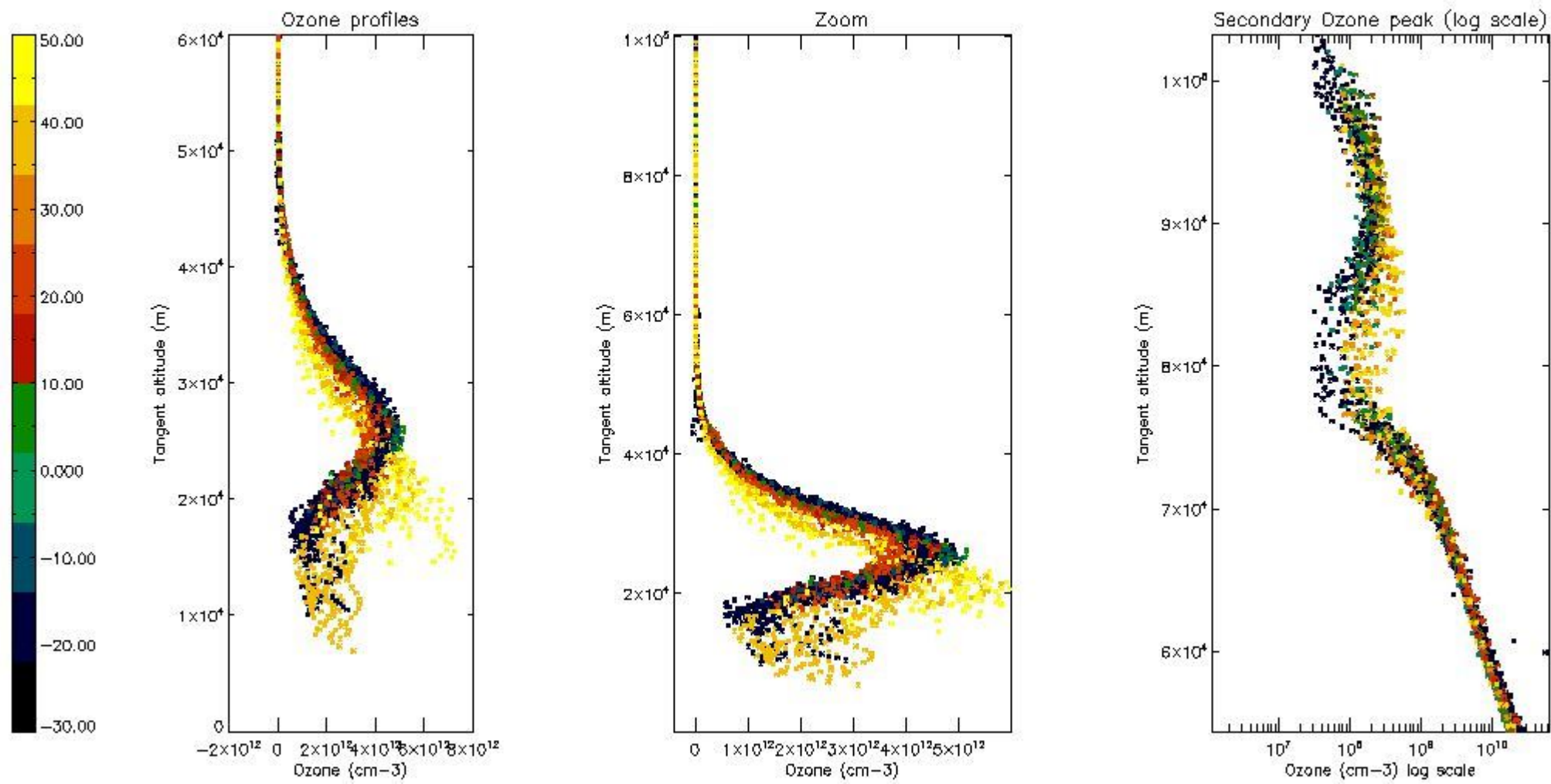
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



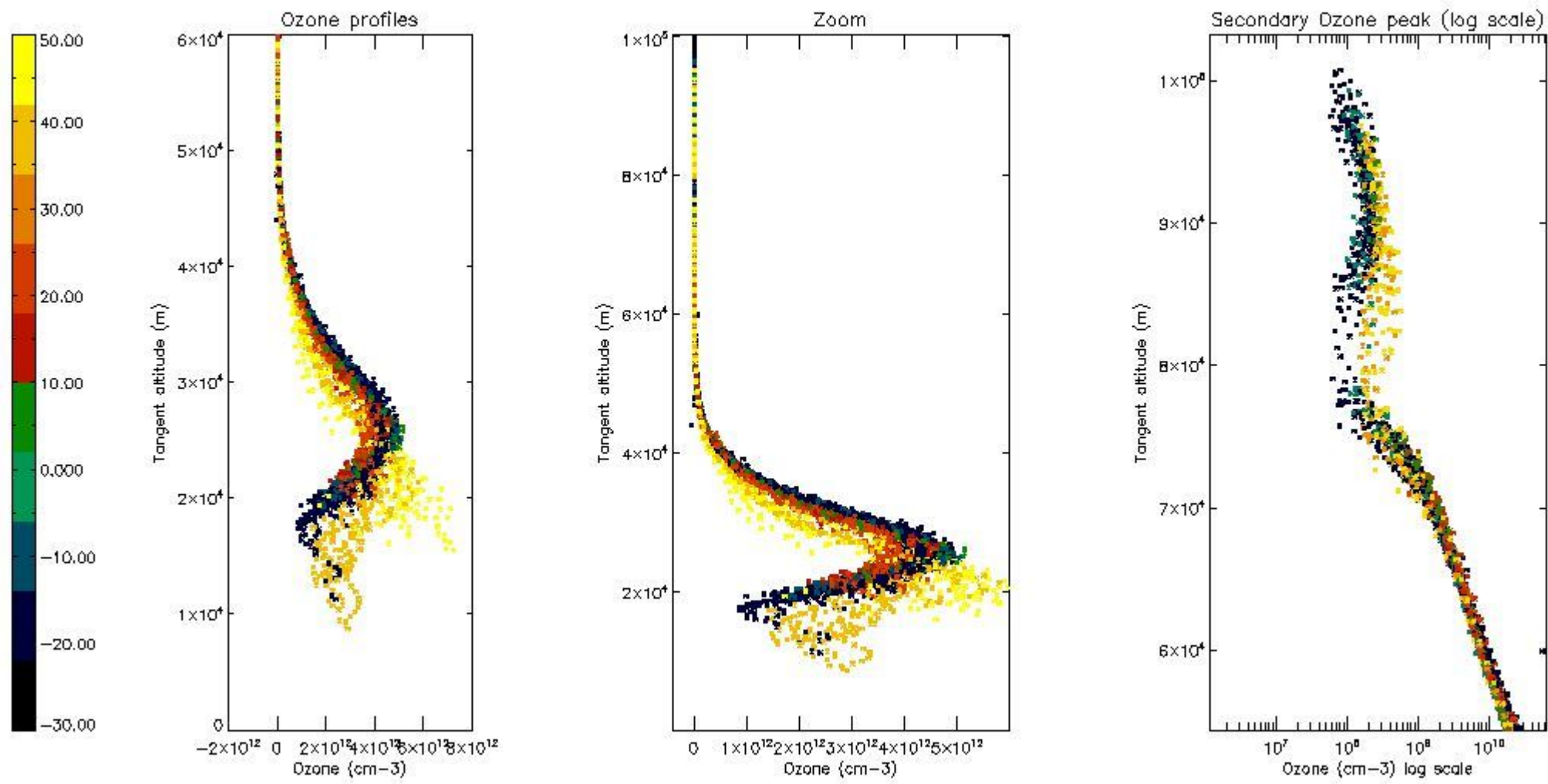
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



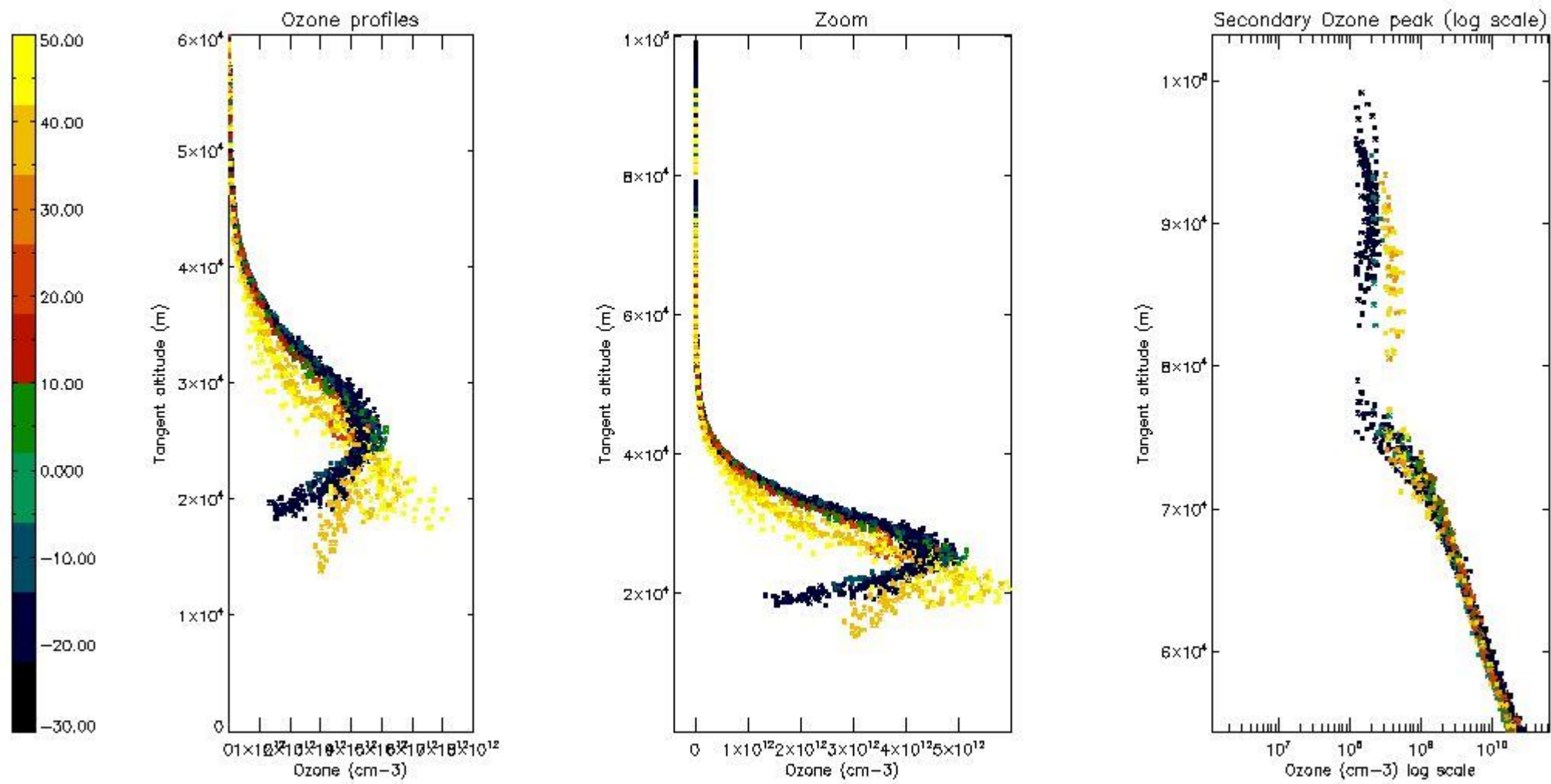
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



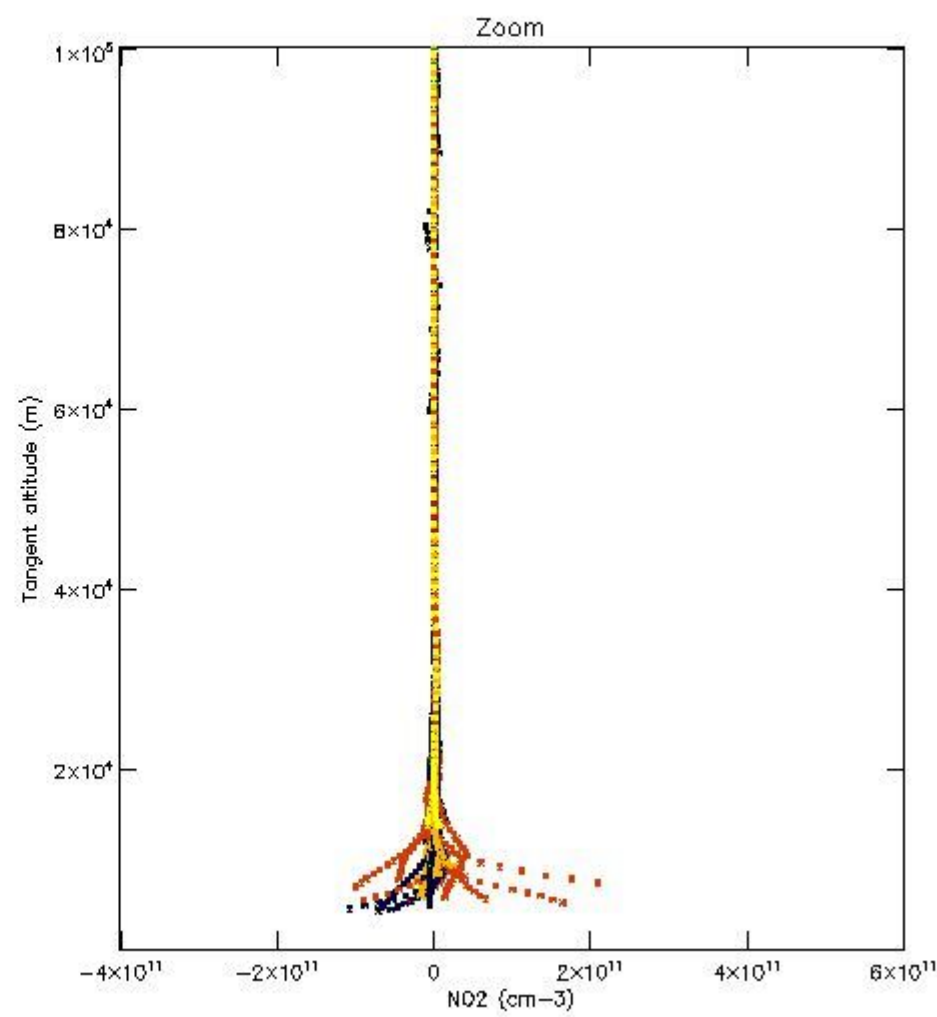
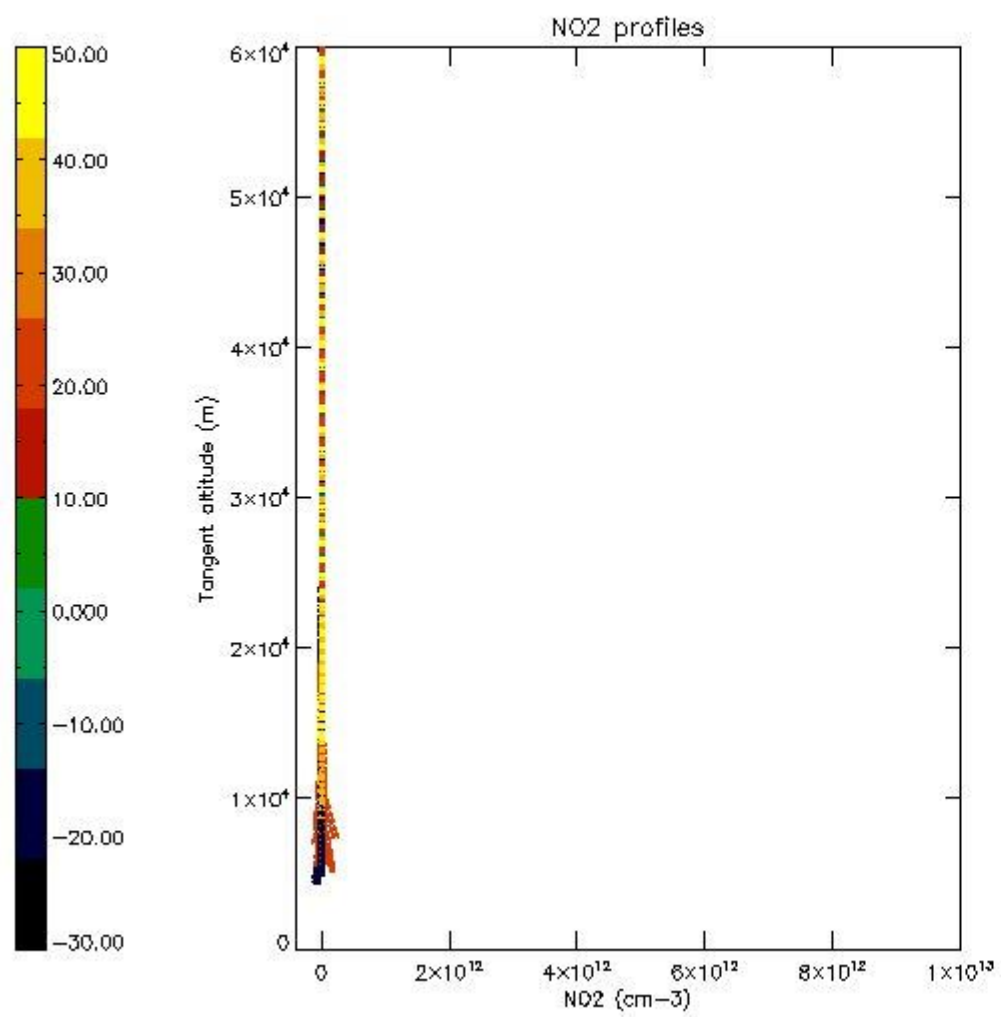
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



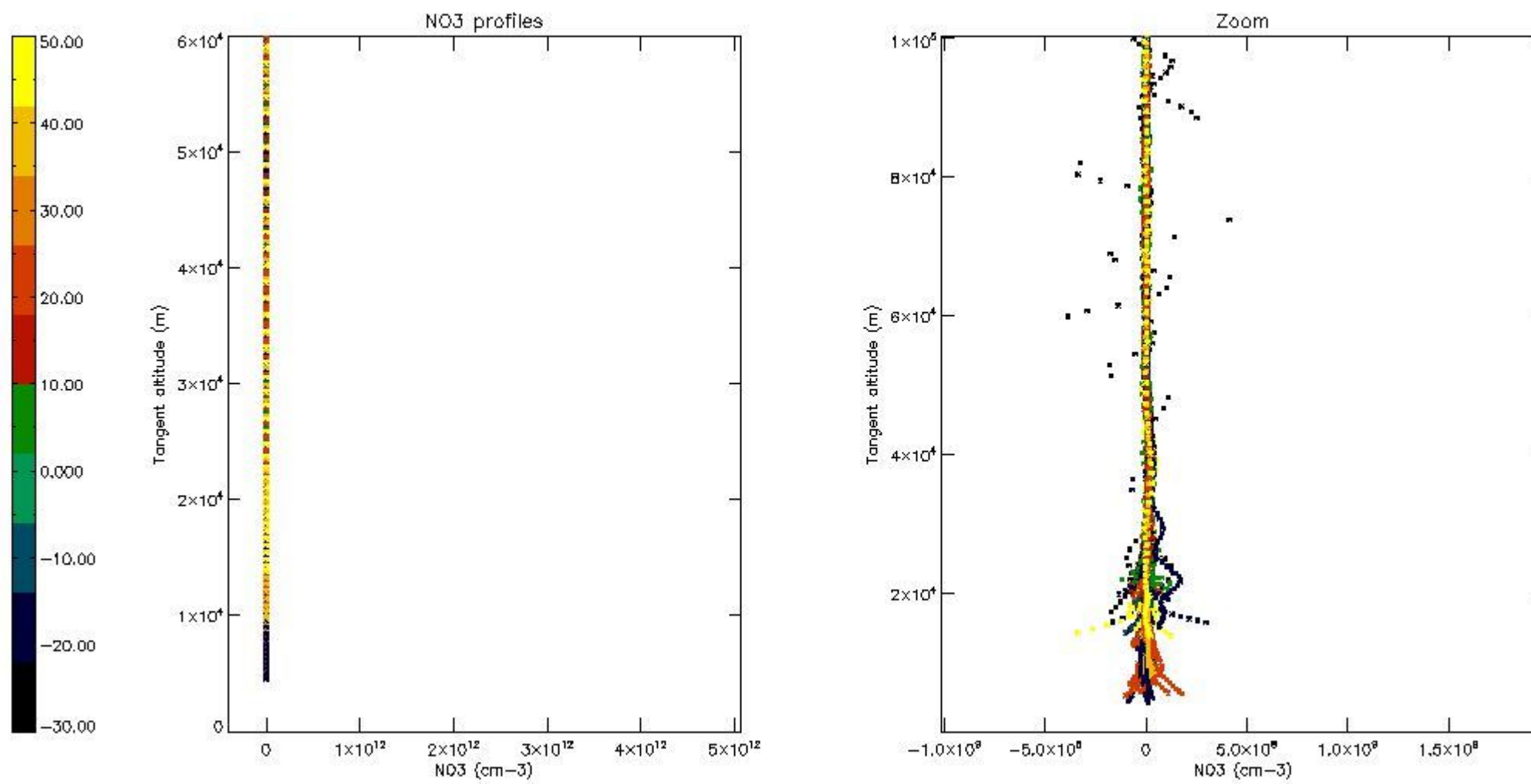
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



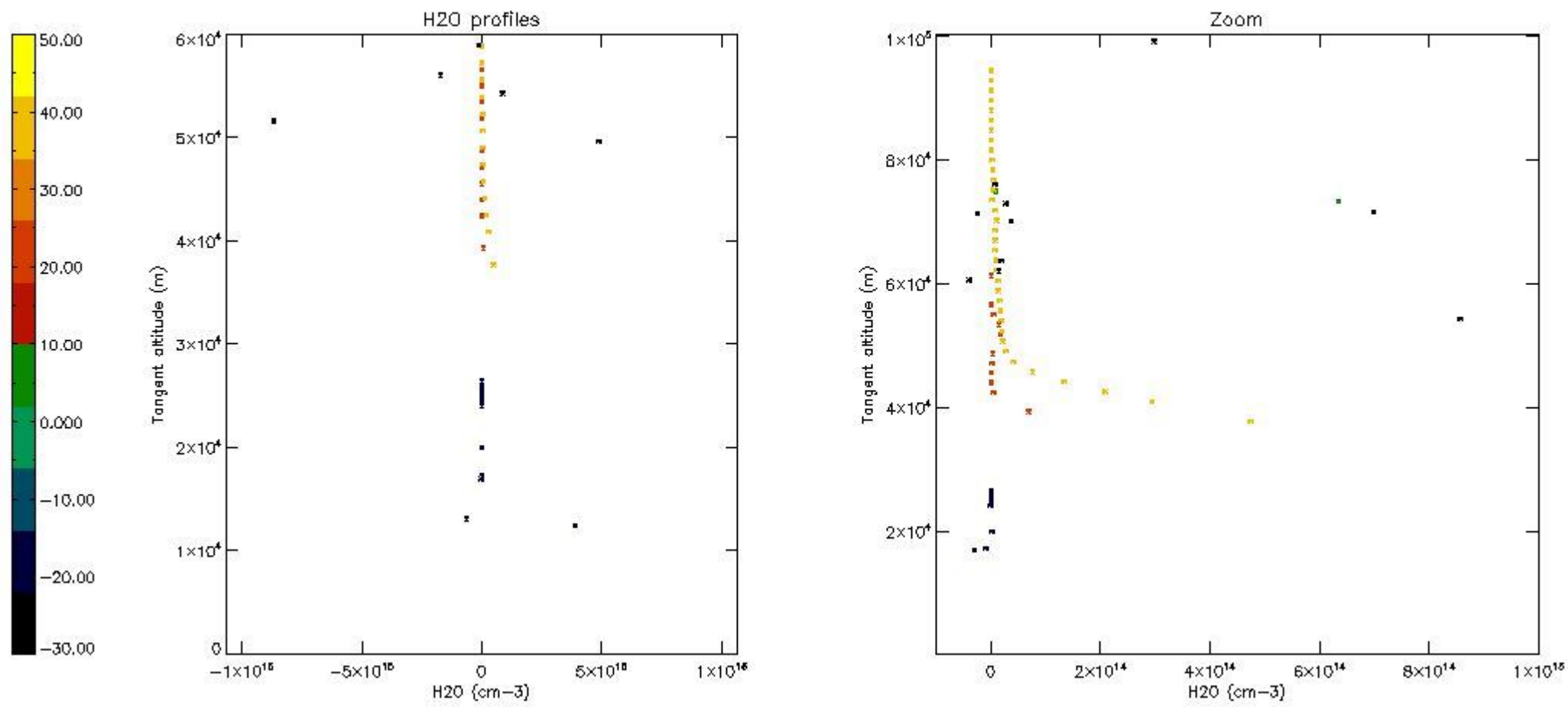
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

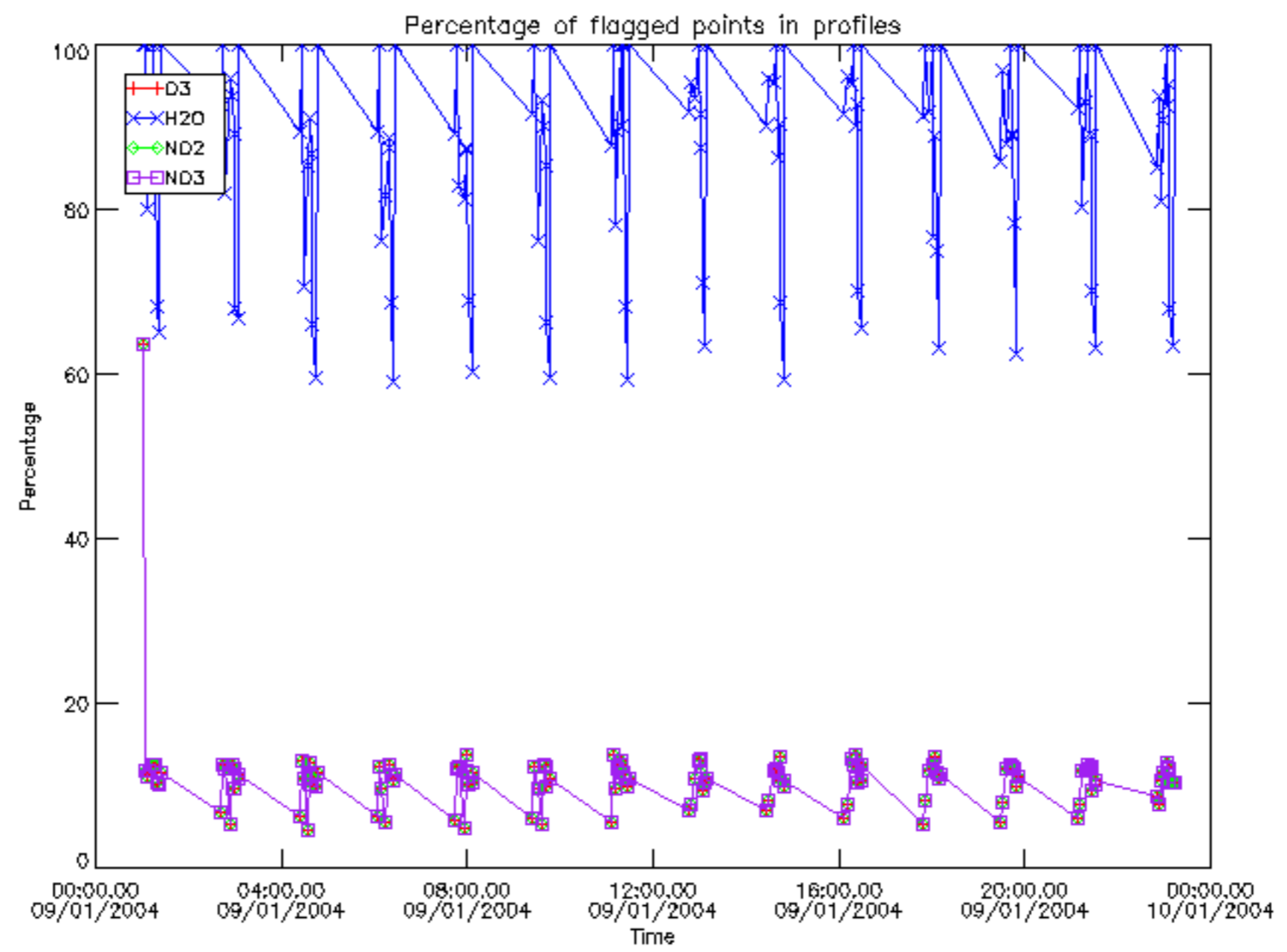
The colorbar represents the latitude.



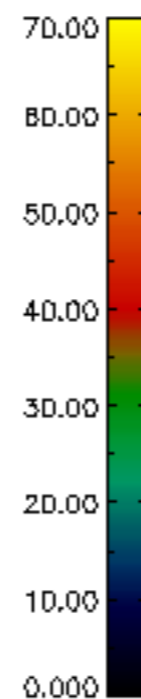
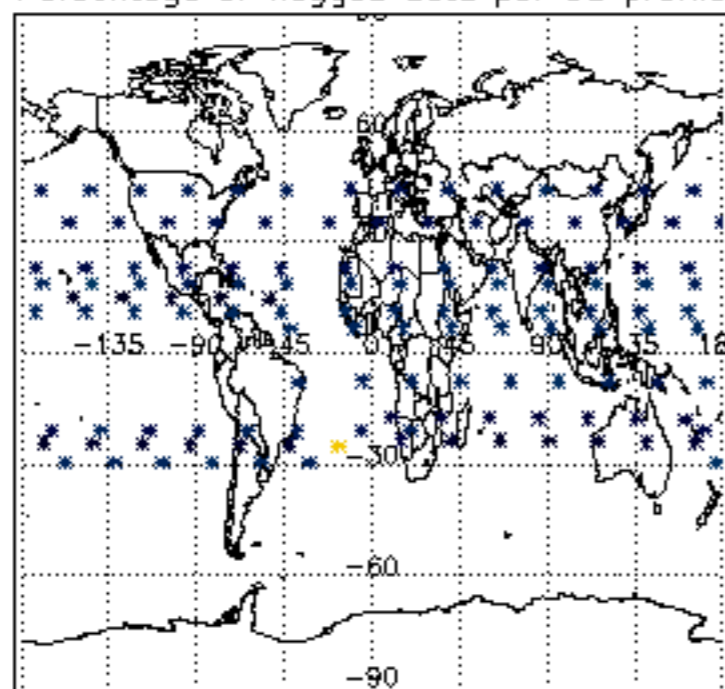
6. Auxiliary Data Files used for the production reported in section 2

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.

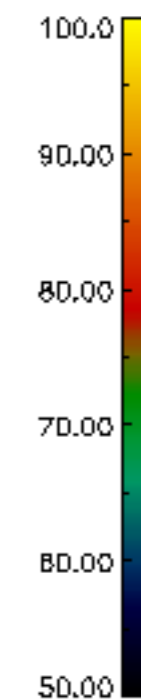
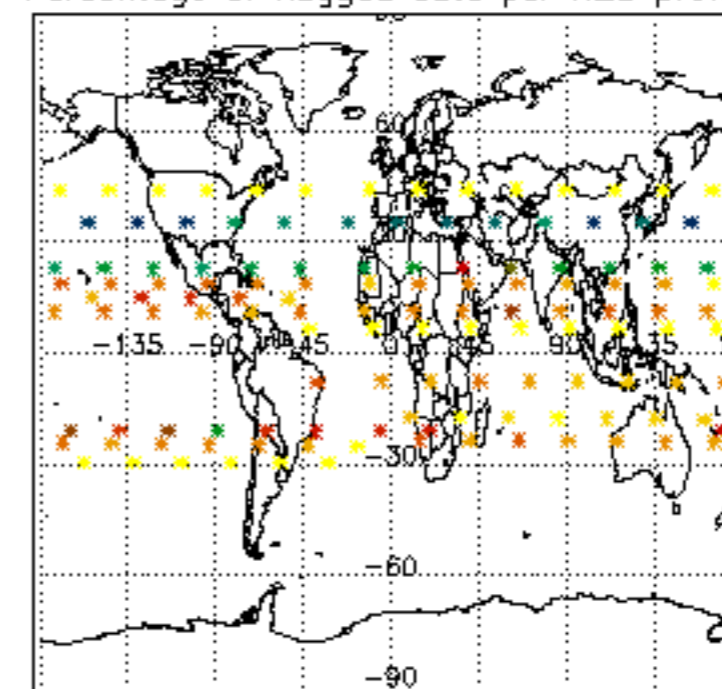
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-JAN-2004 00:02:33
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-JAN-2004 00:02:33
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-JAN-2004 00:02:33



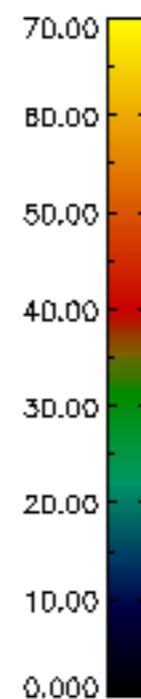
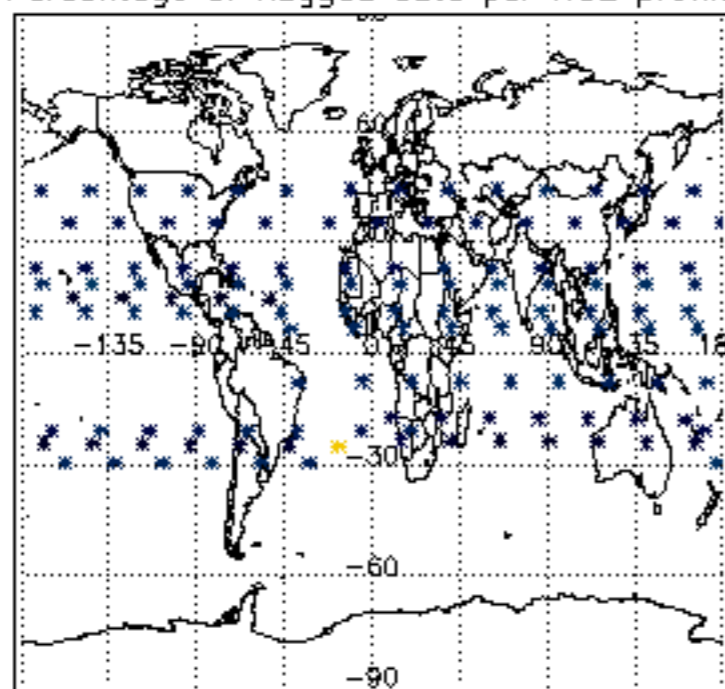
Percentage of flagged data per D3 profile



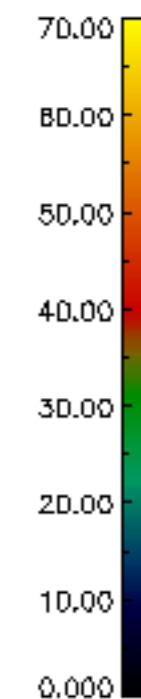
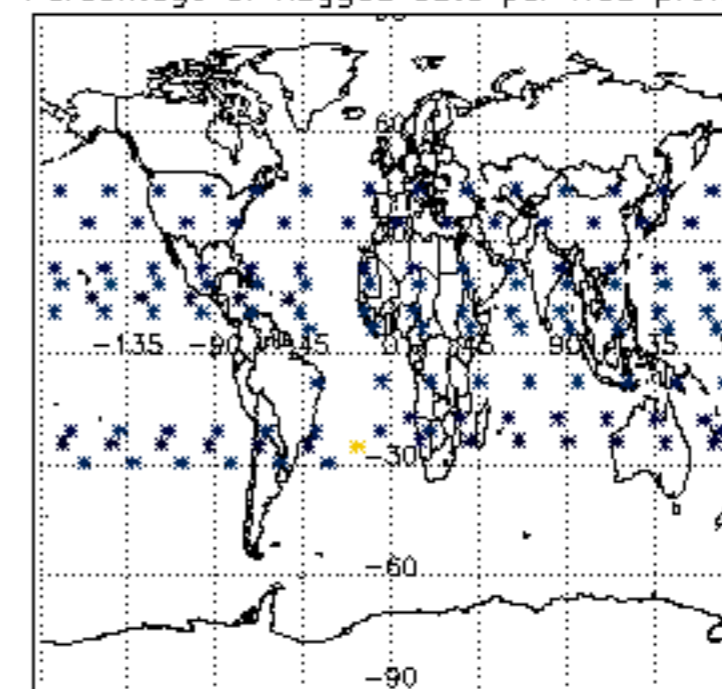
Percentage of flagged data per H2O profile

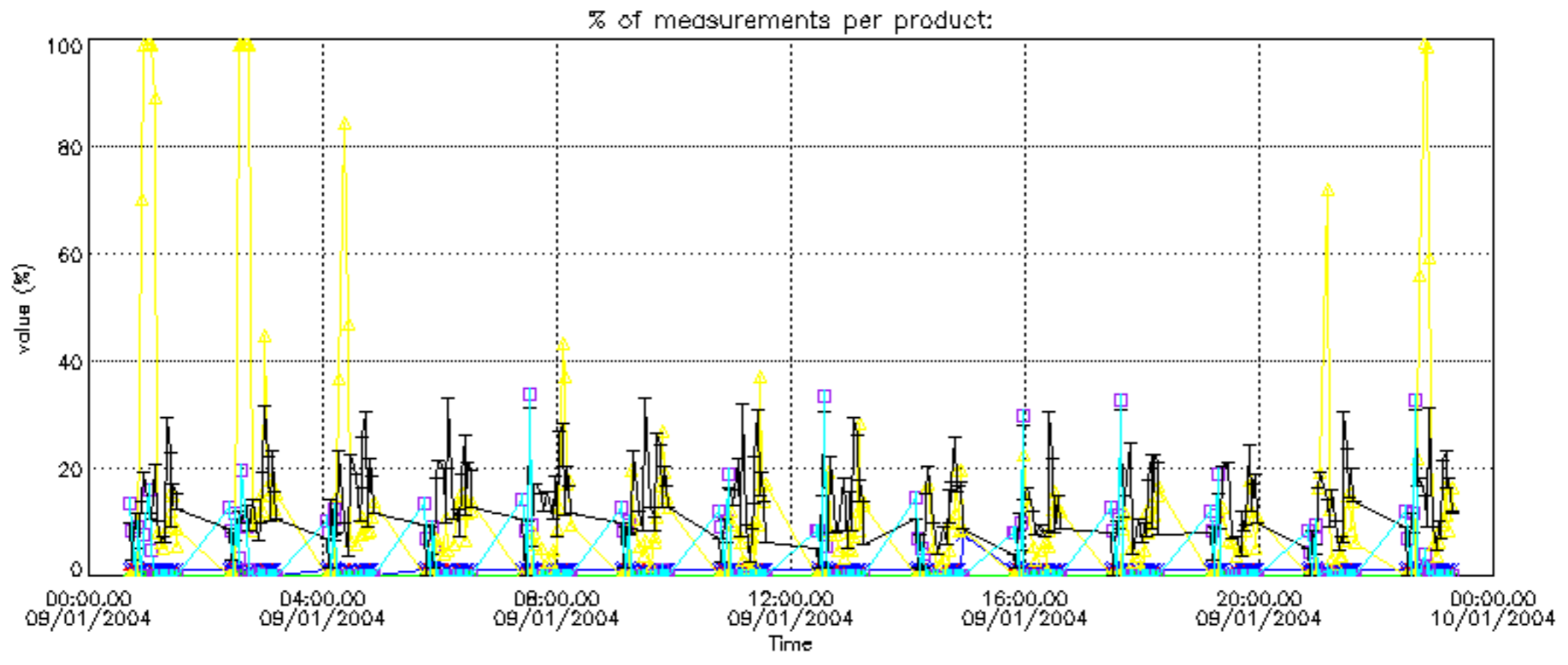


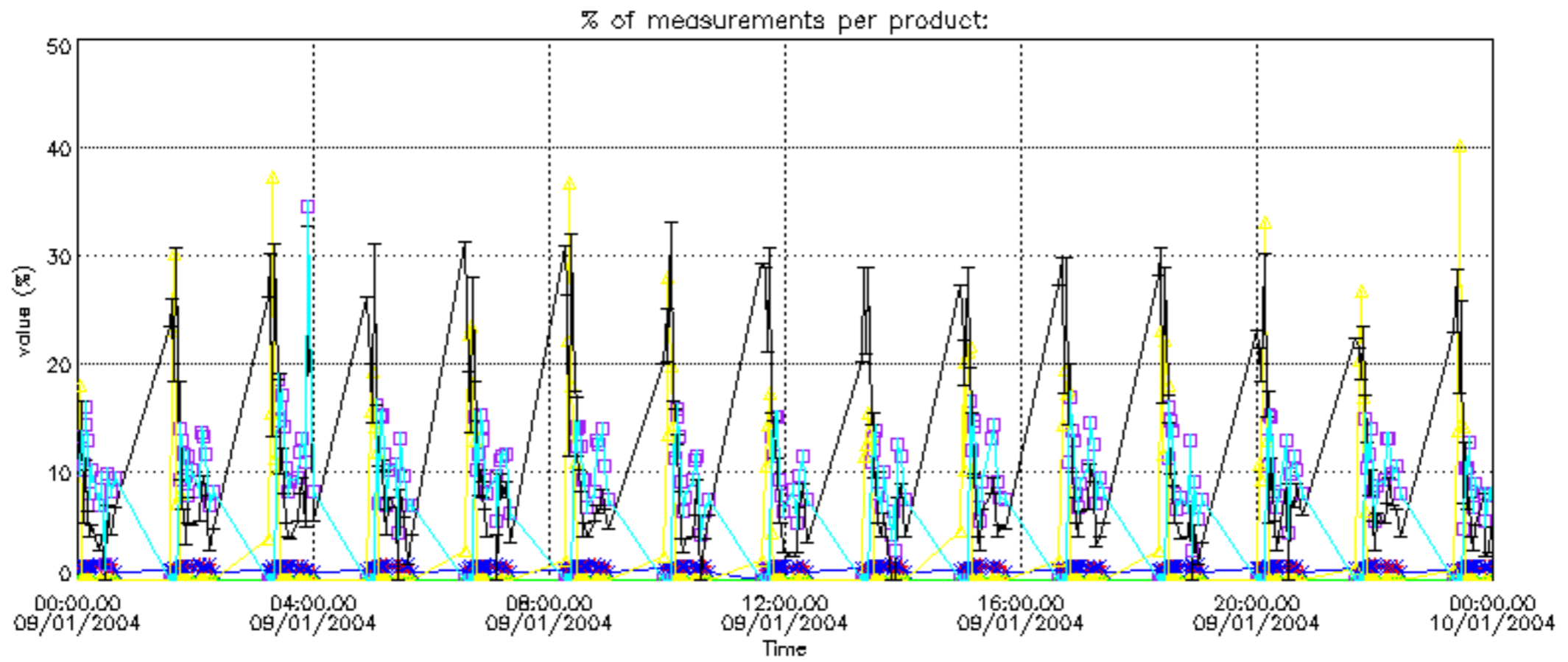
Percentage of flagged data per NO2 profile



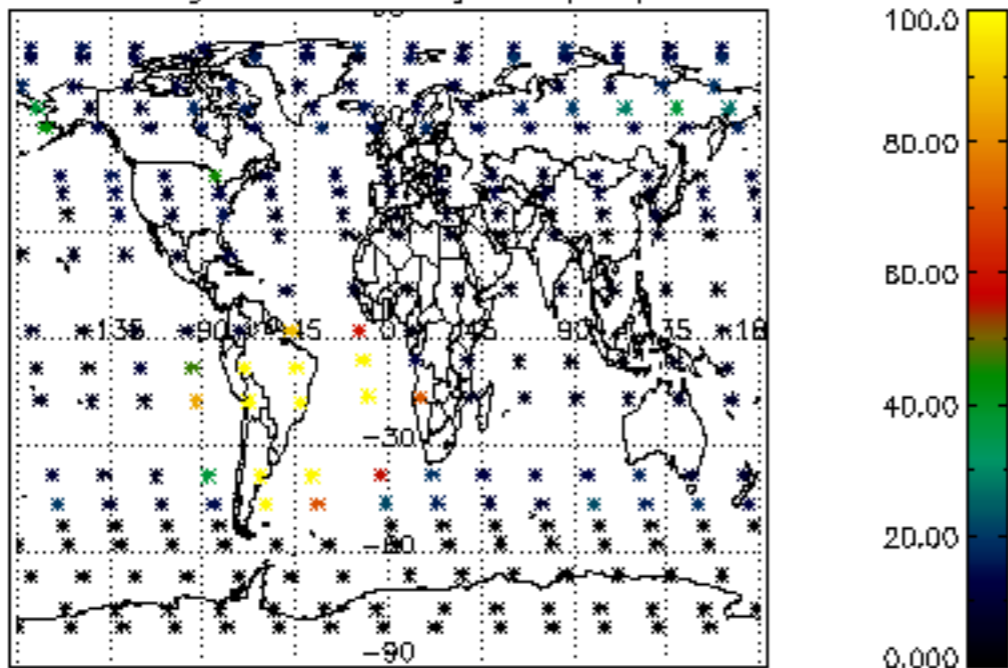
Percentage of flagged data per NO3 profile



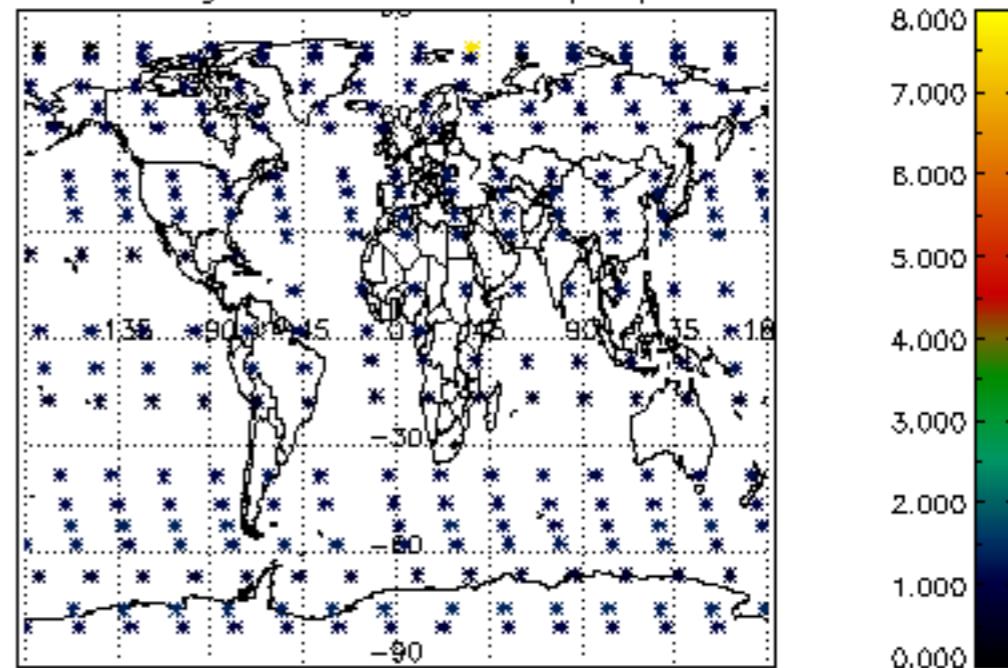




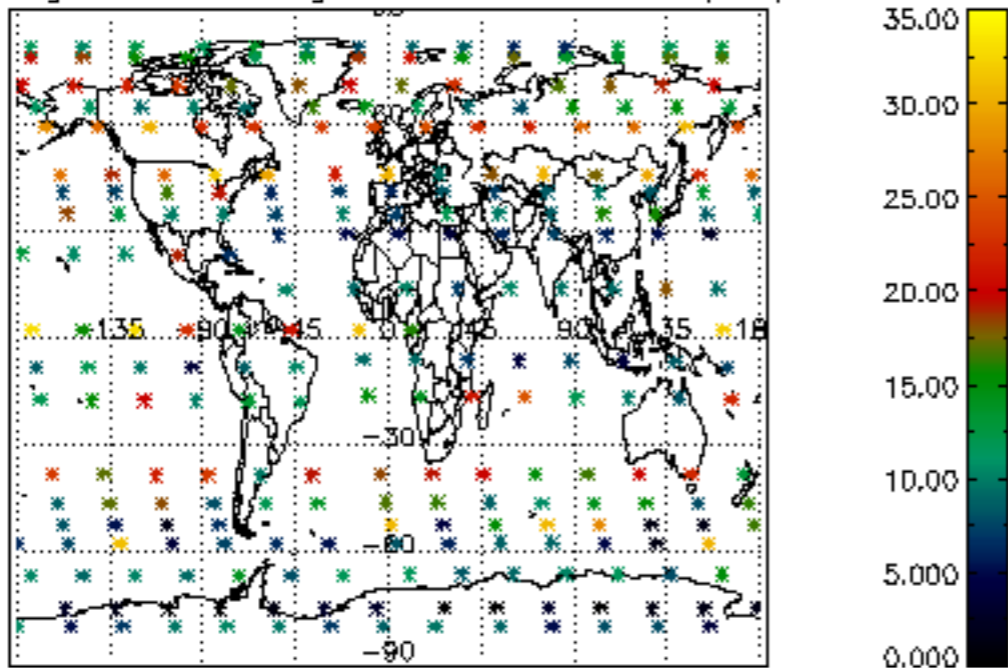
Percentage of cosmic ray hits per profile



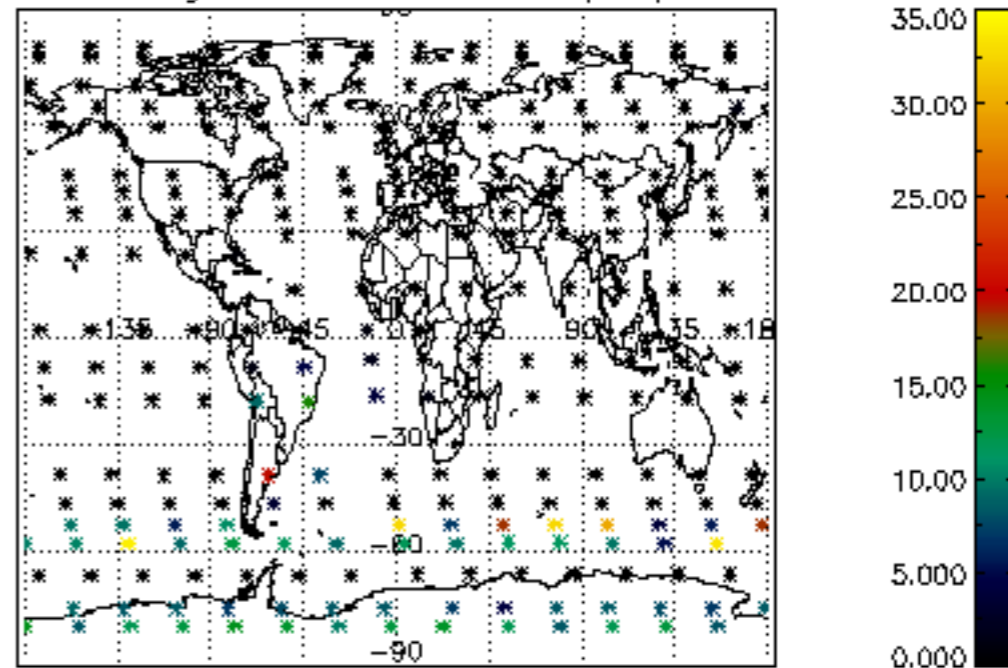
Percentage of datation errors per profile



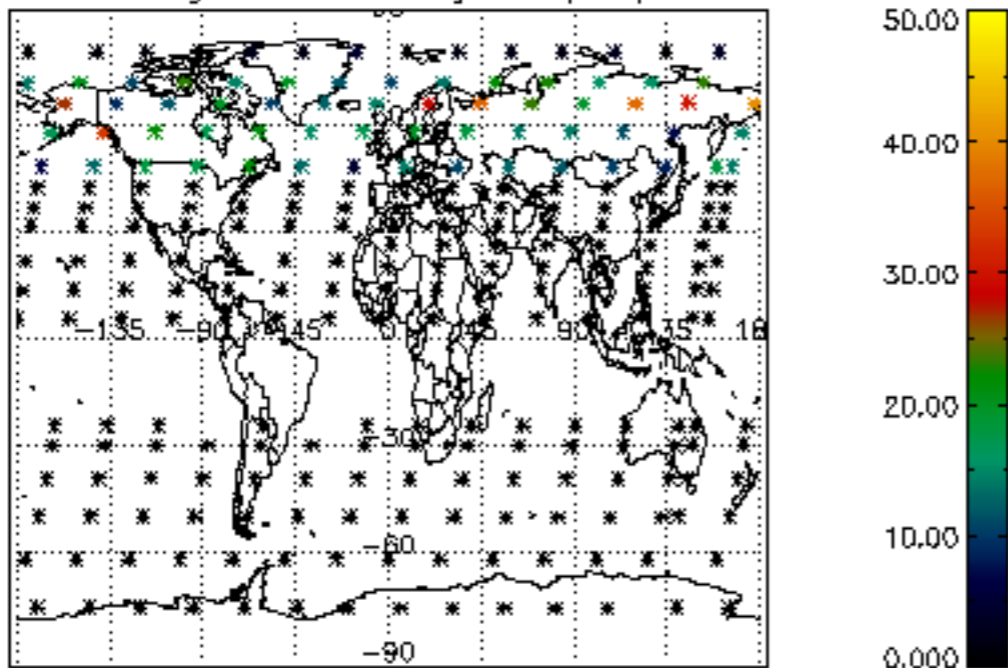
Percentage of star falling outside central band per profile



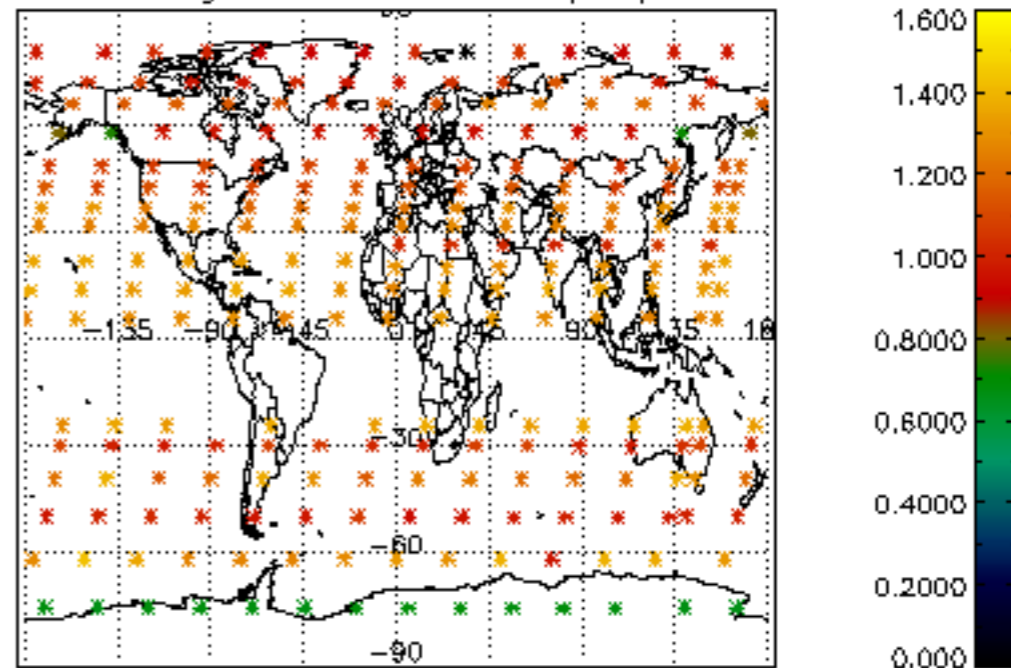
Percentage of saturation errors per profile



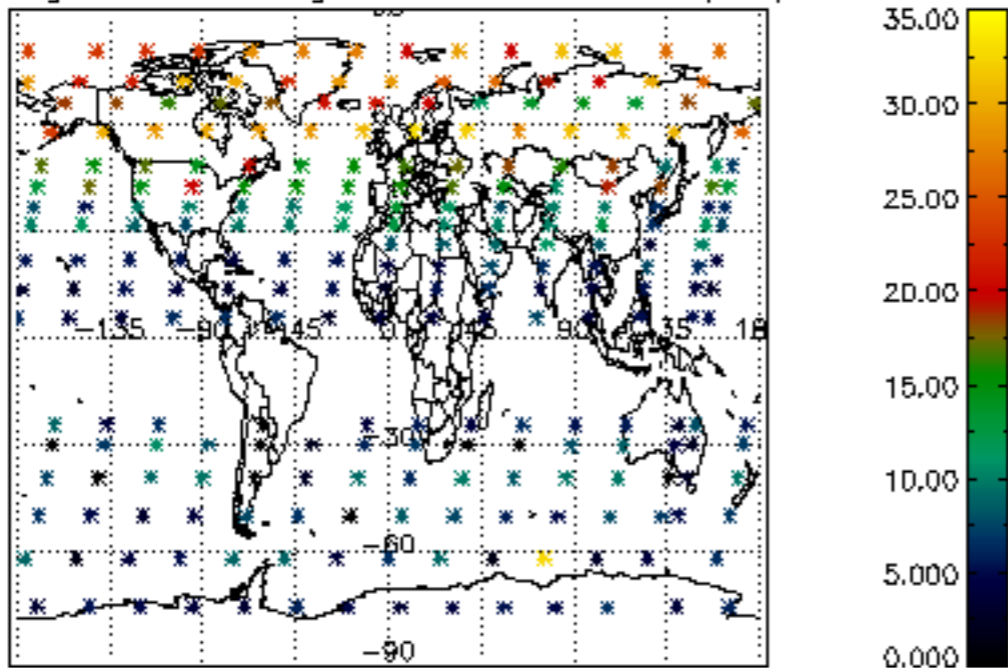
Percentage of cosmic ray hits per profile



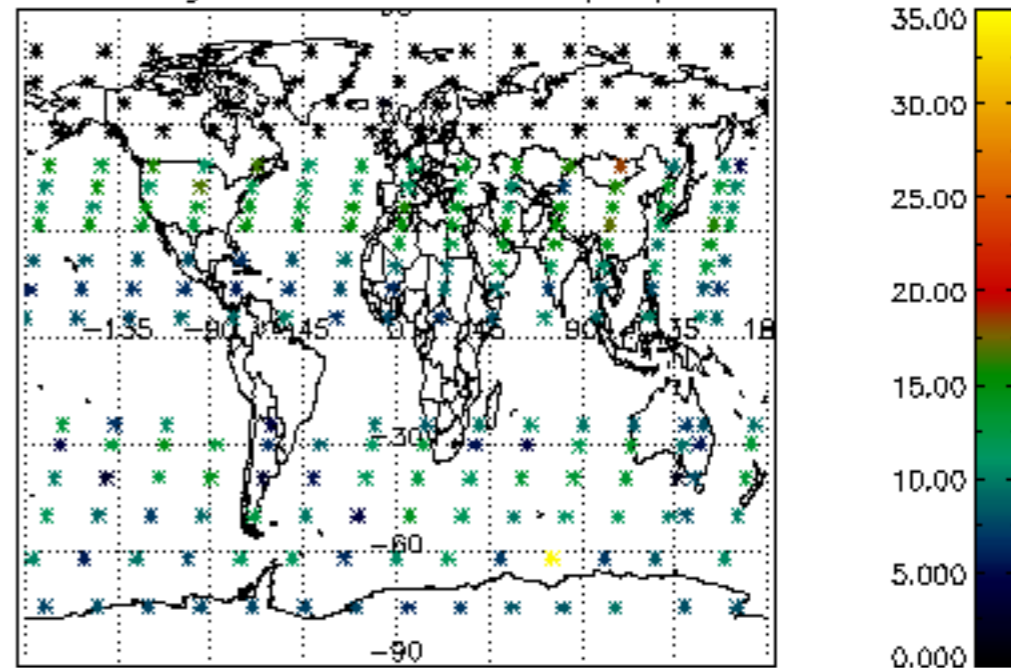
Percentage of datation errors per profile

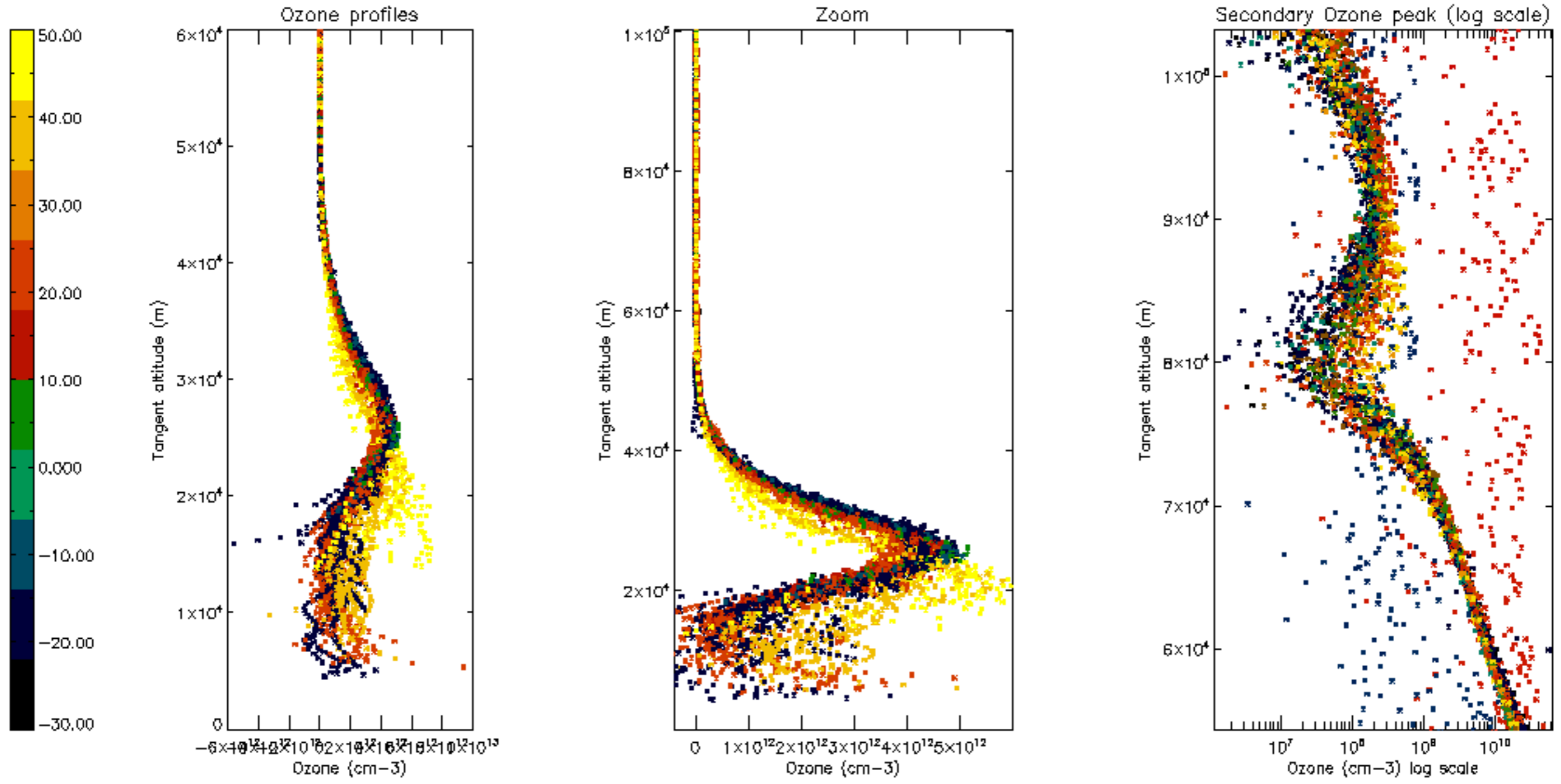


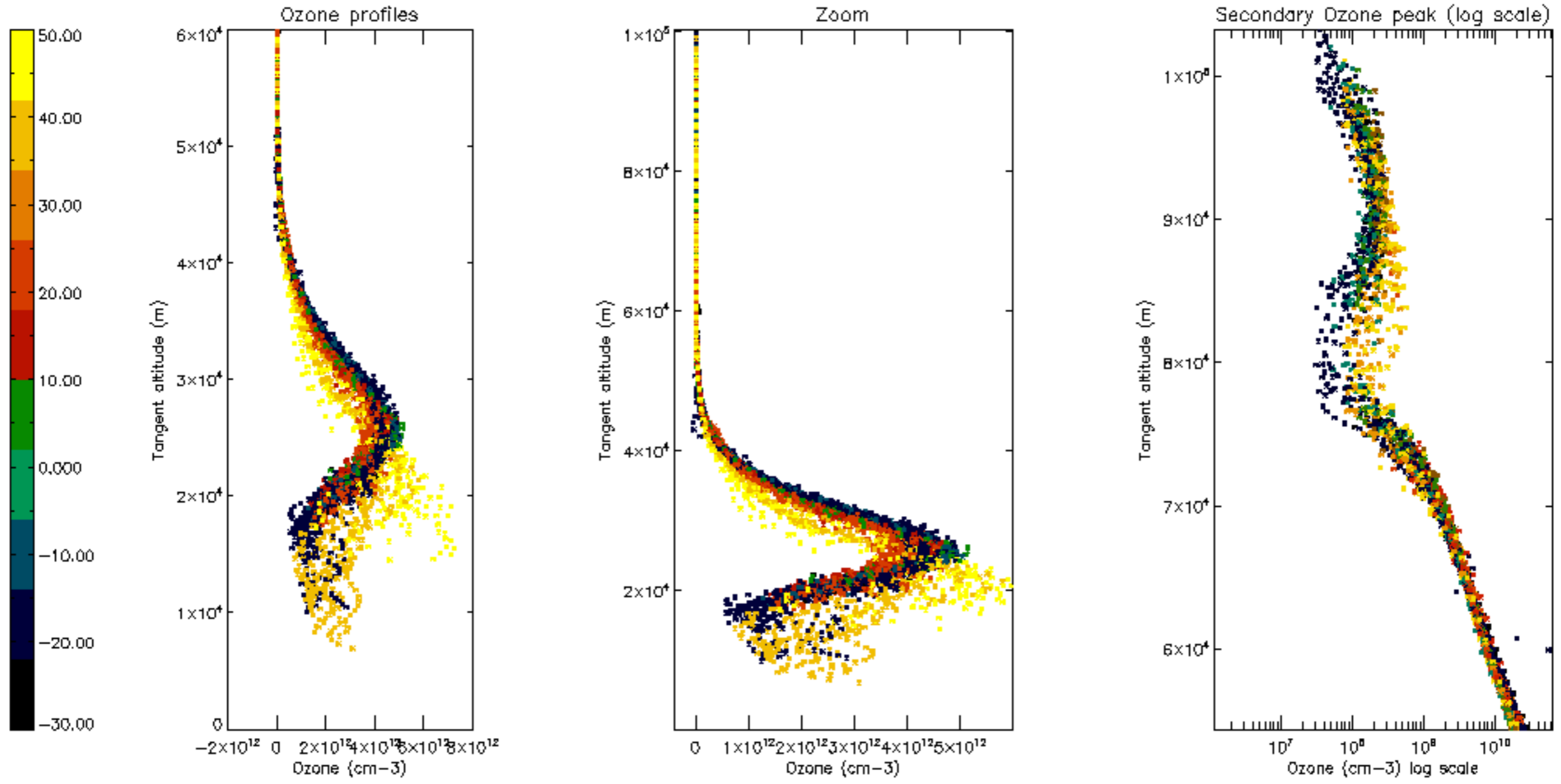
Percentage of star falling outside central band per profile

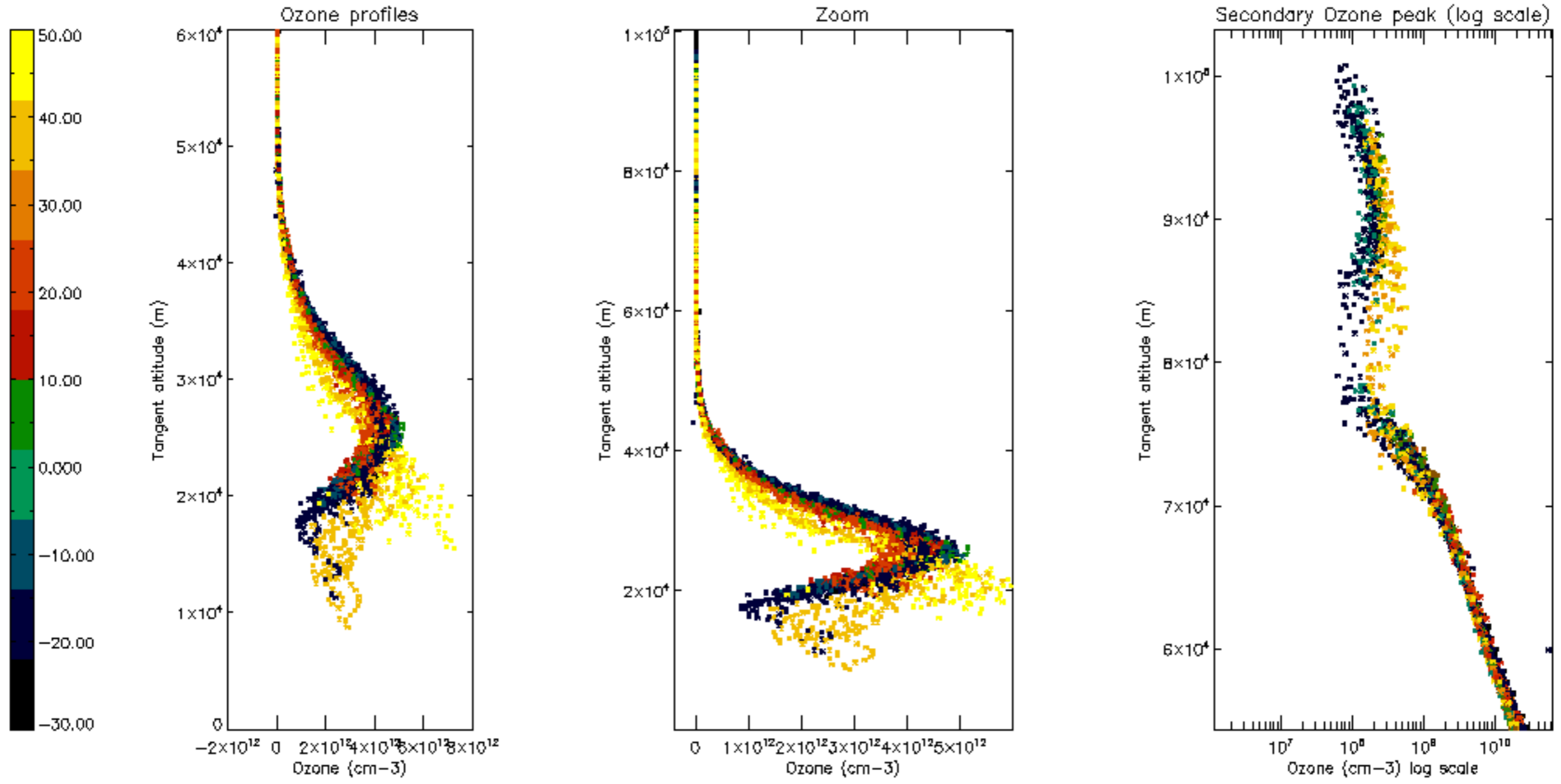


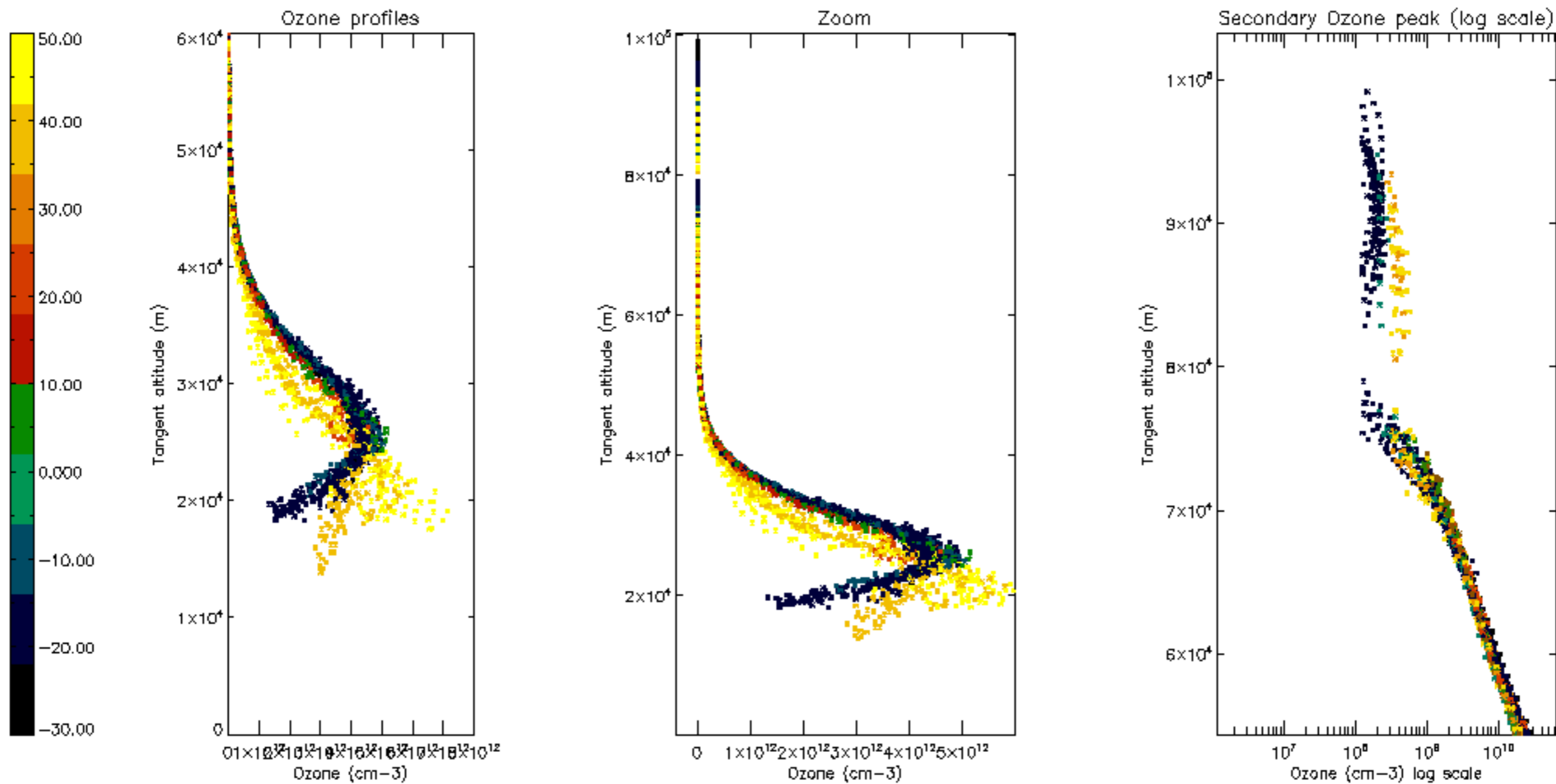
Percentage of saturation errors per profile

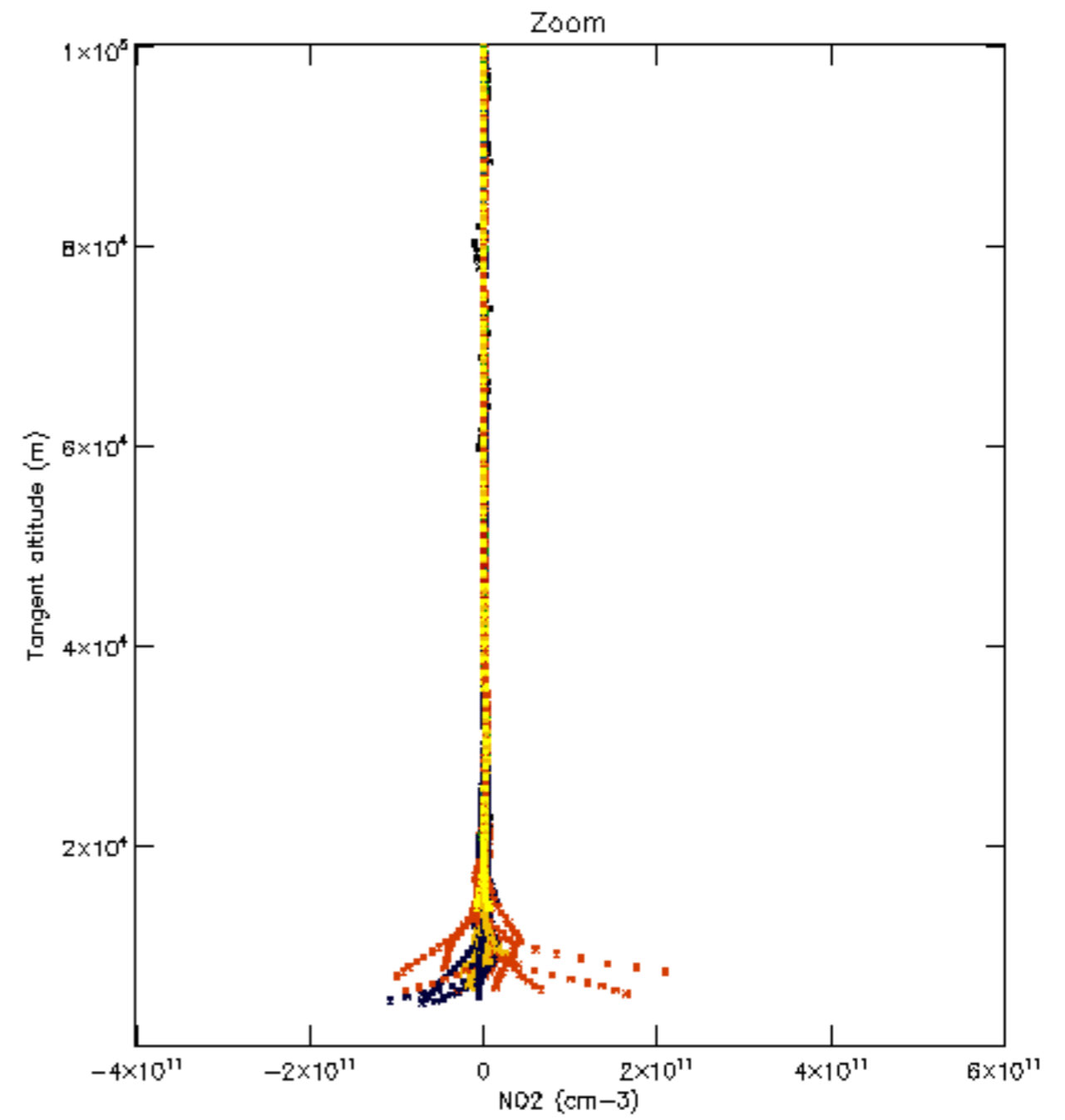
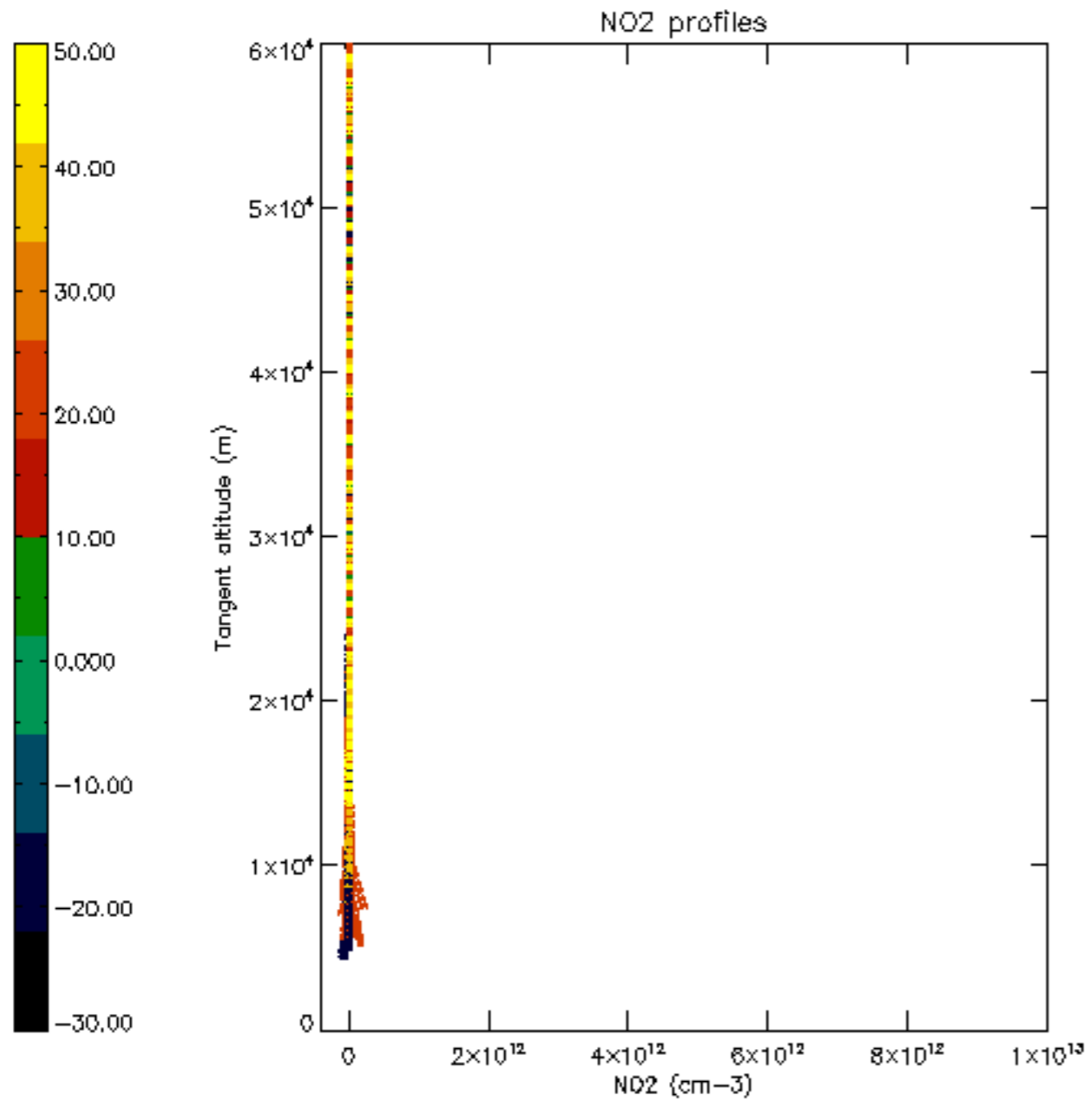


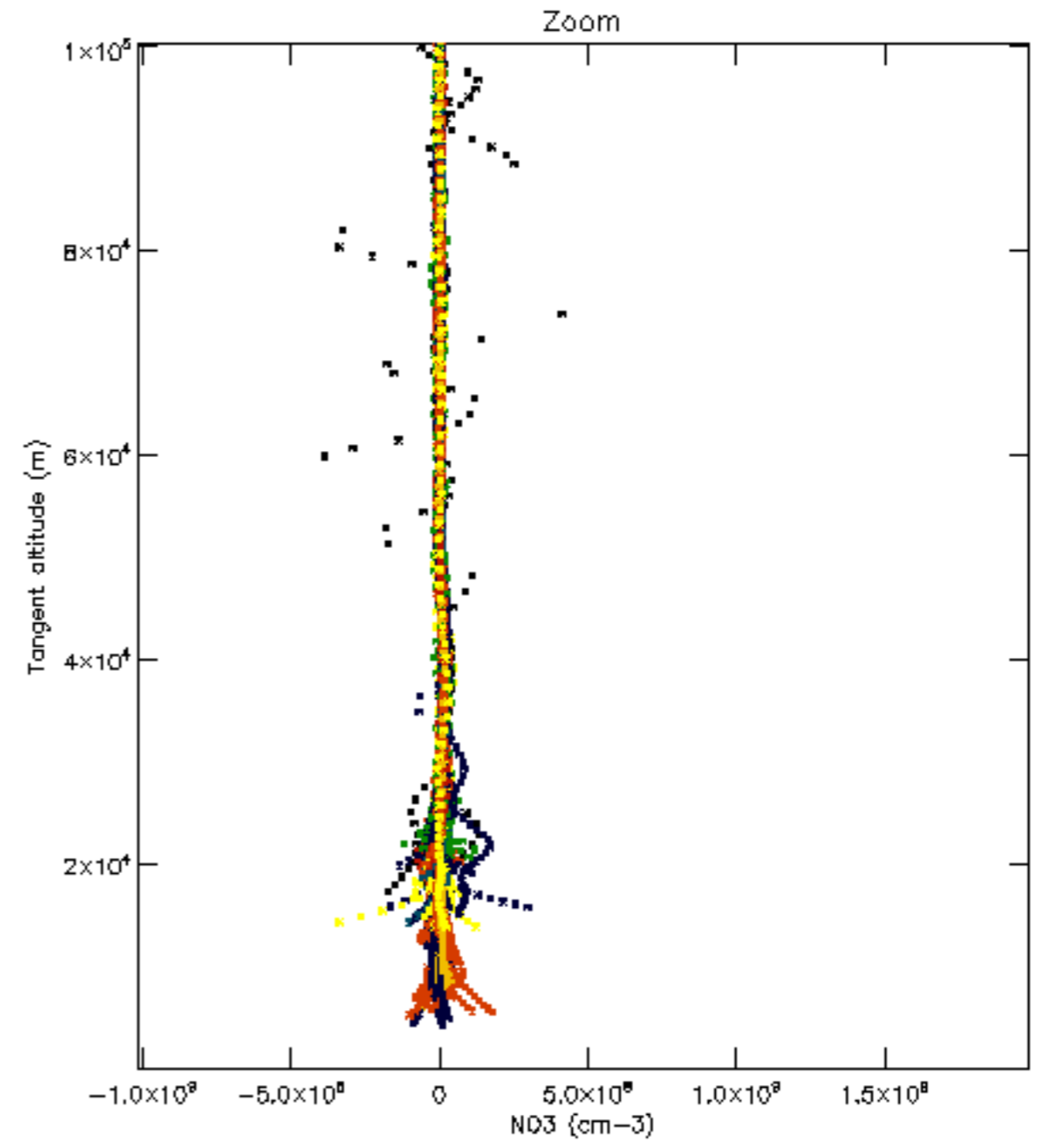
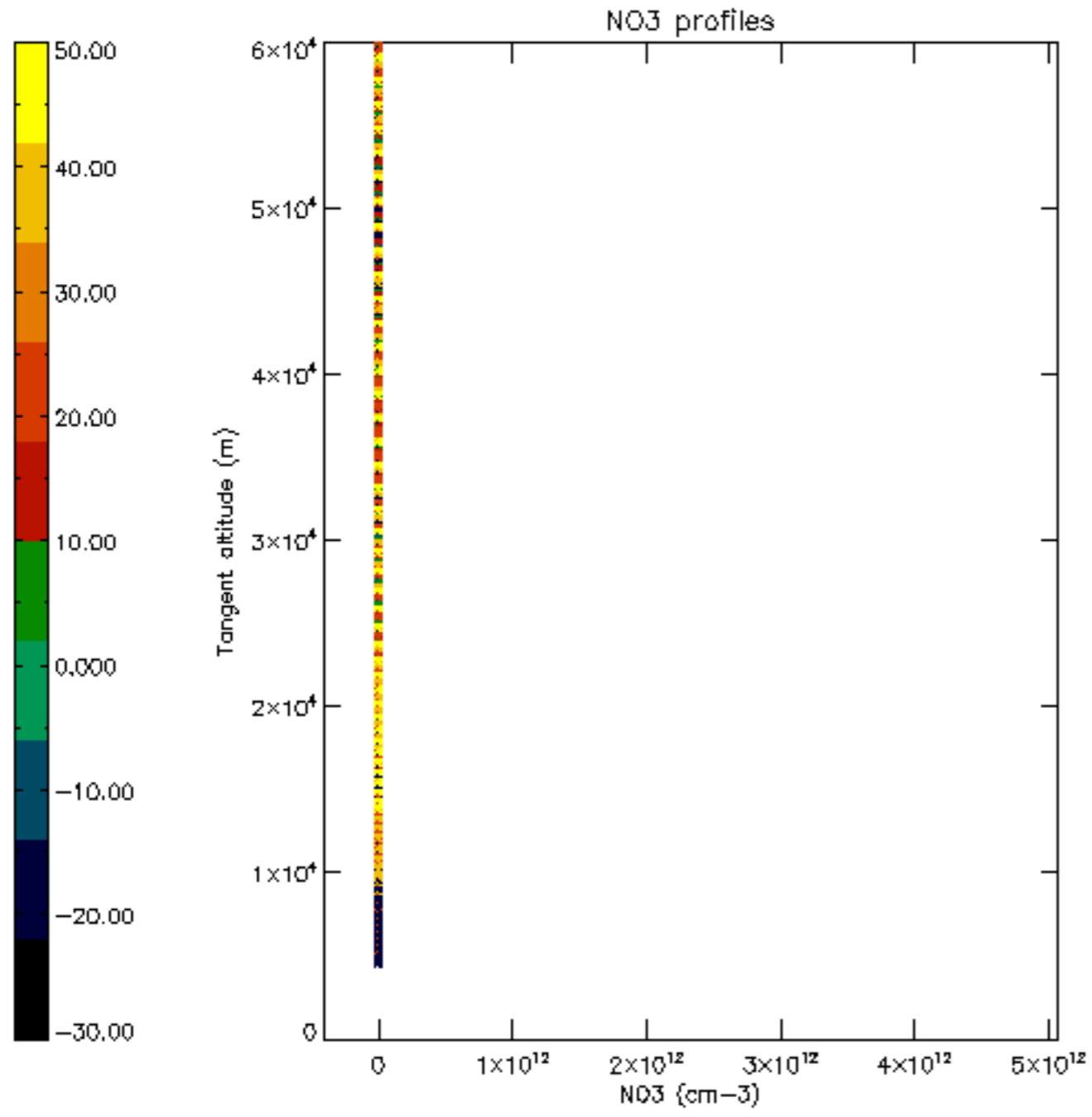


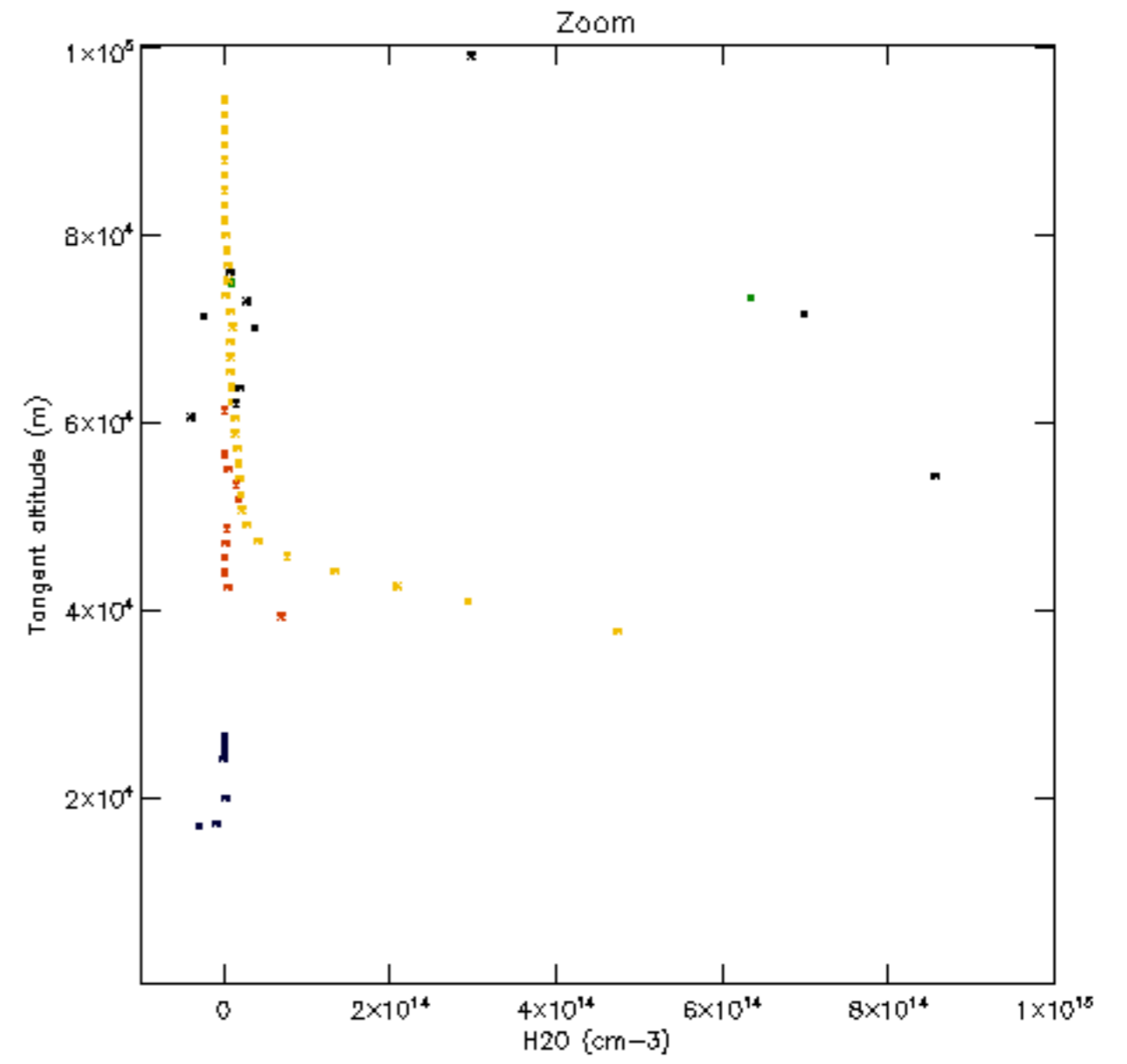
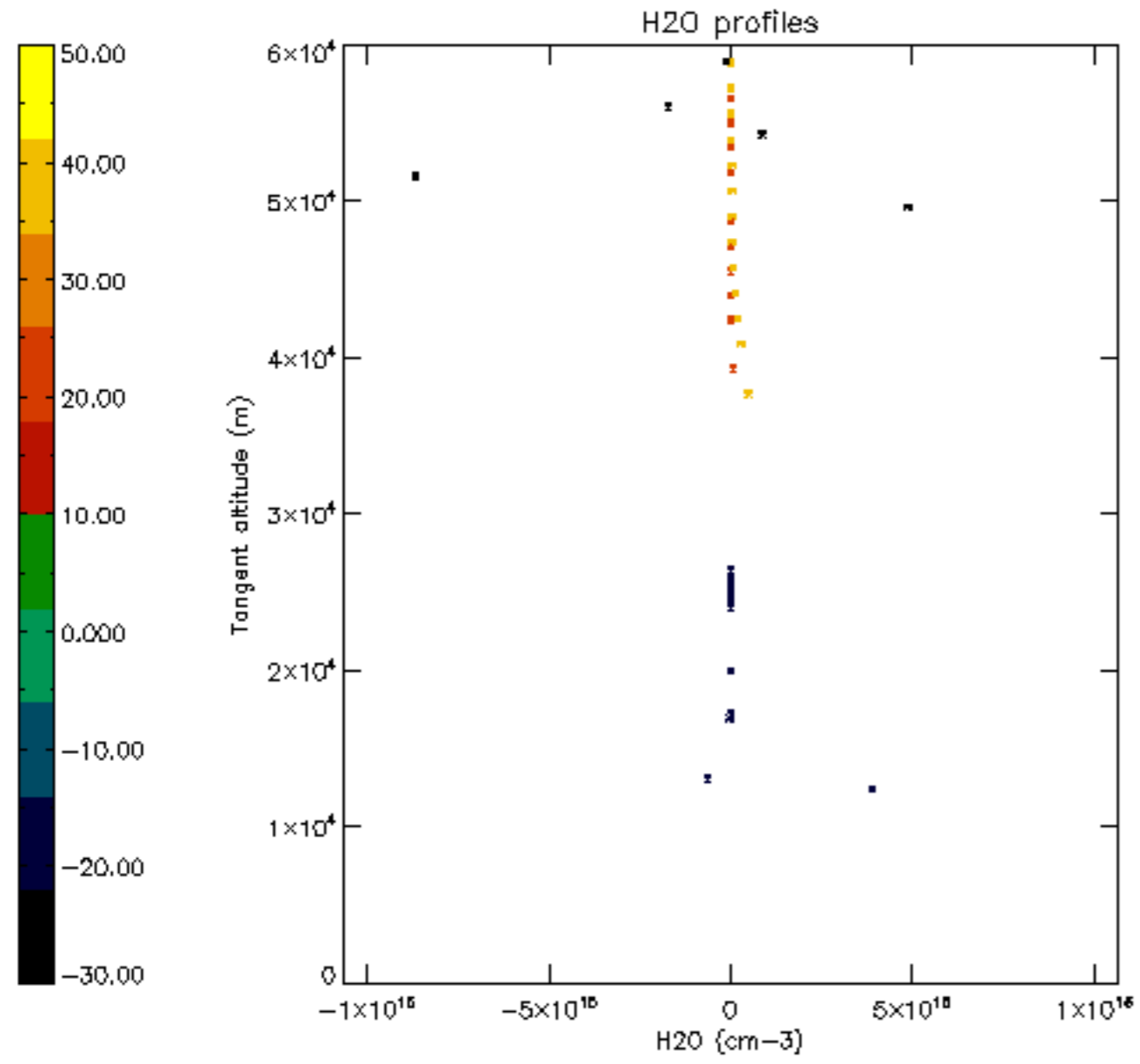


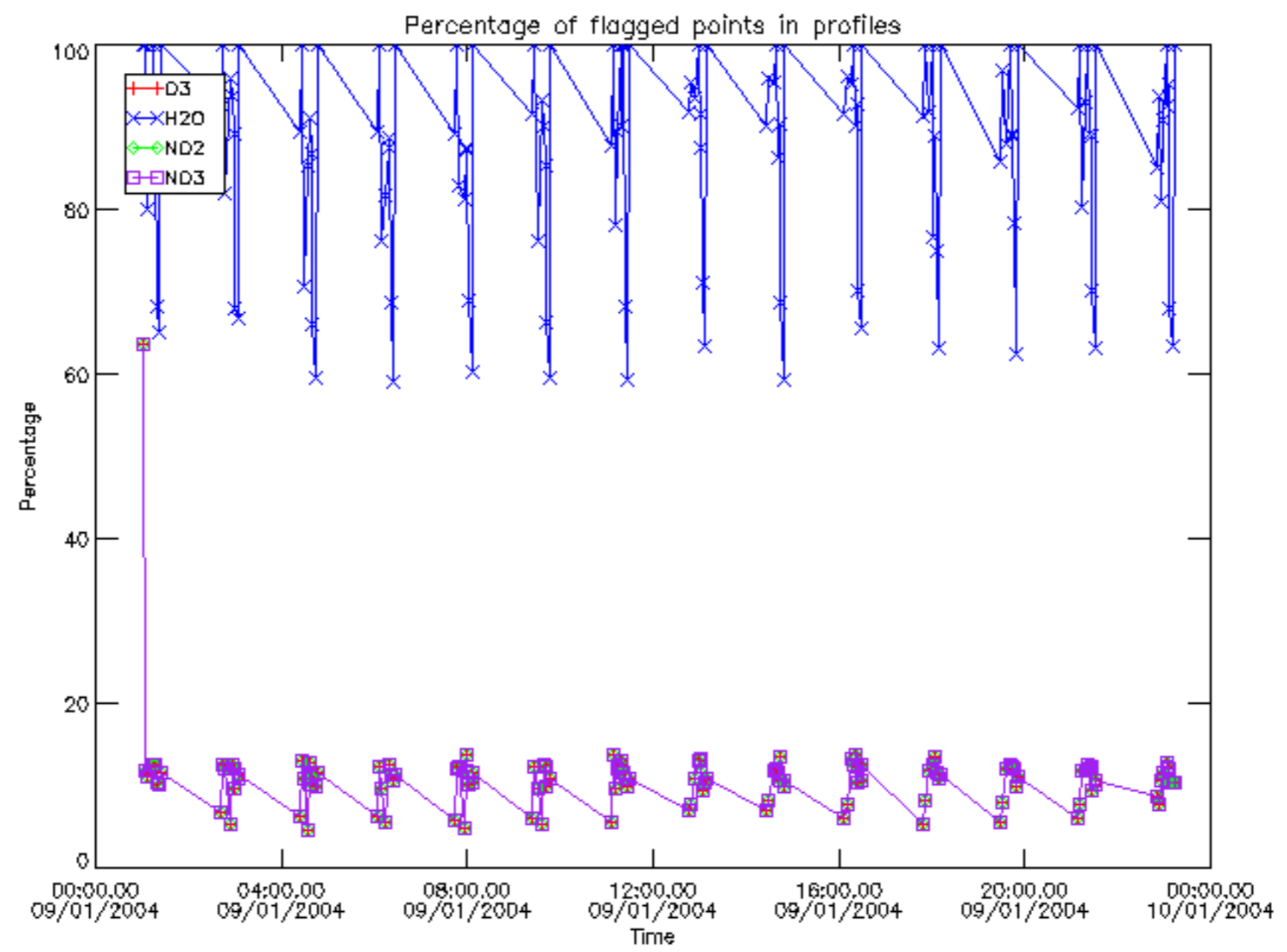




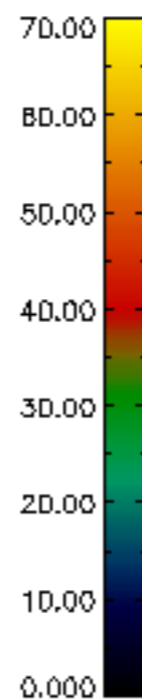
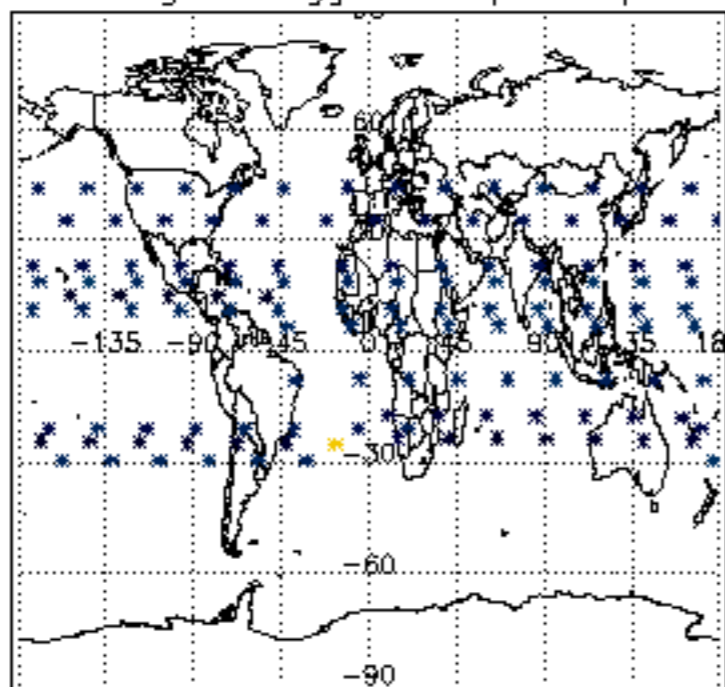




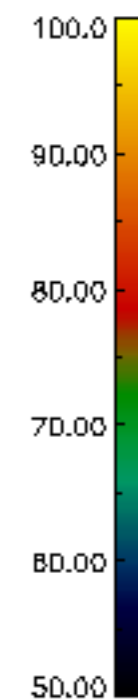
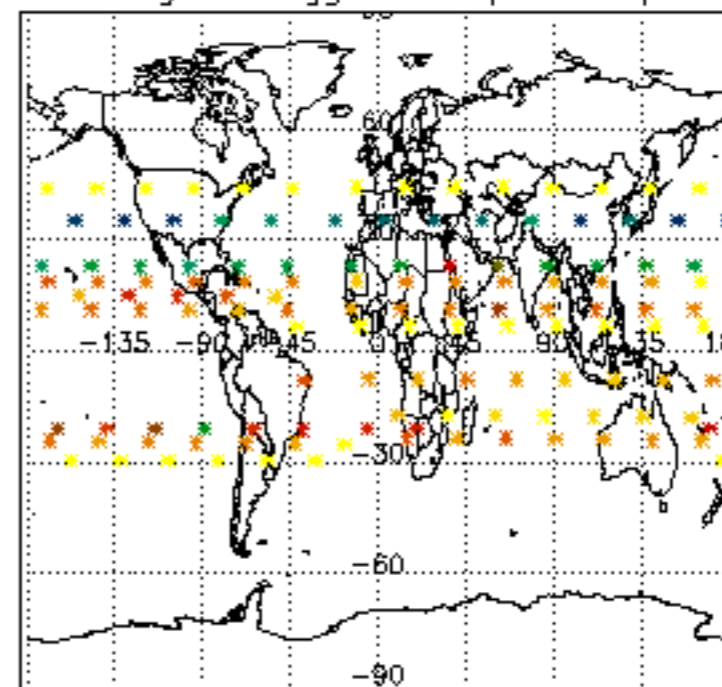




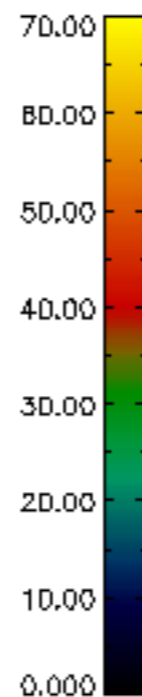
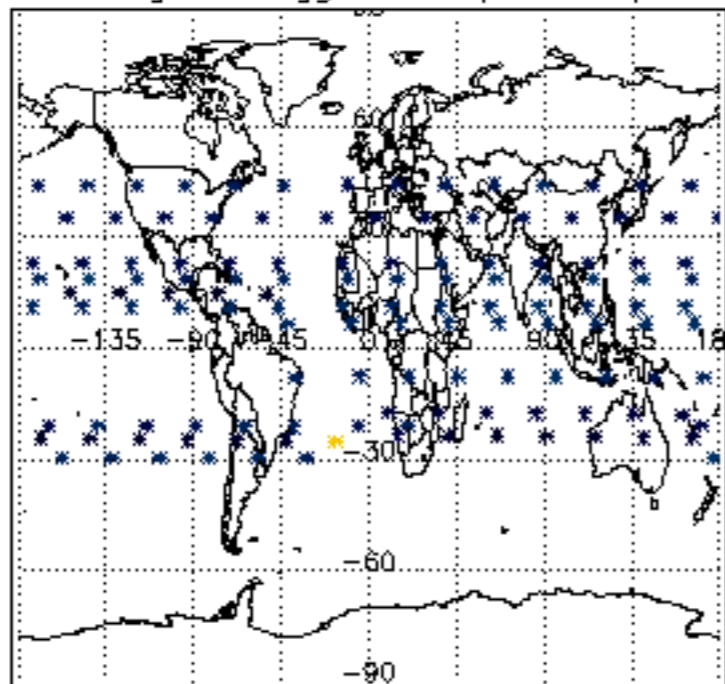
Percentage of flagged data per D3 profile



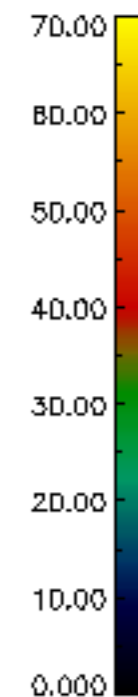
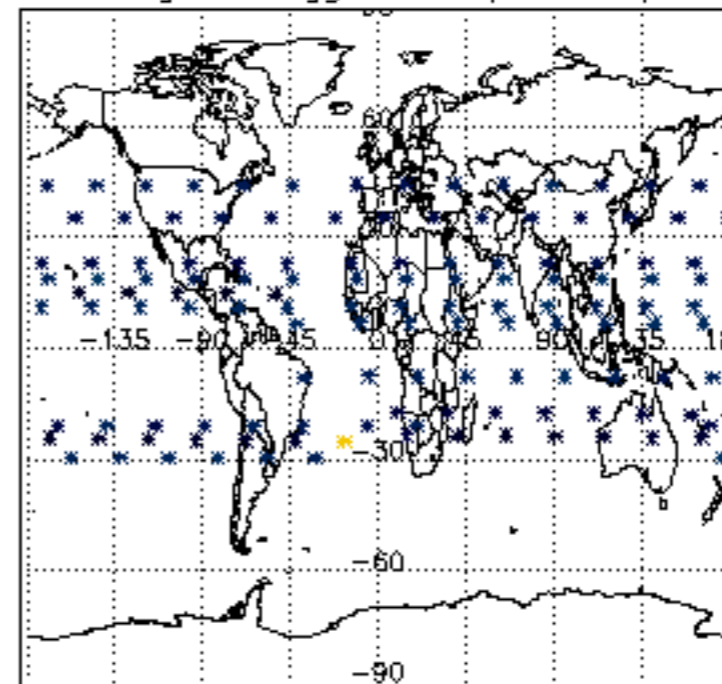
Percentage of flagged data per H2O profile

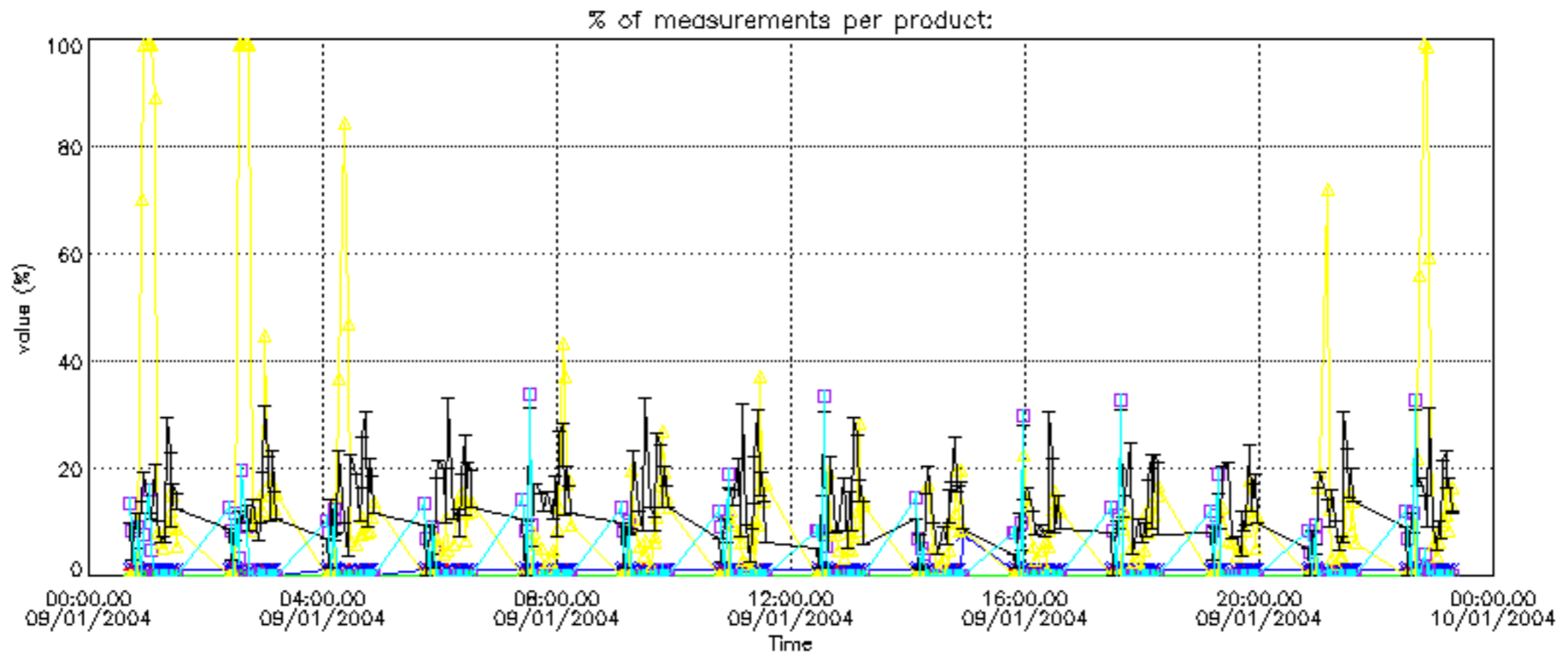


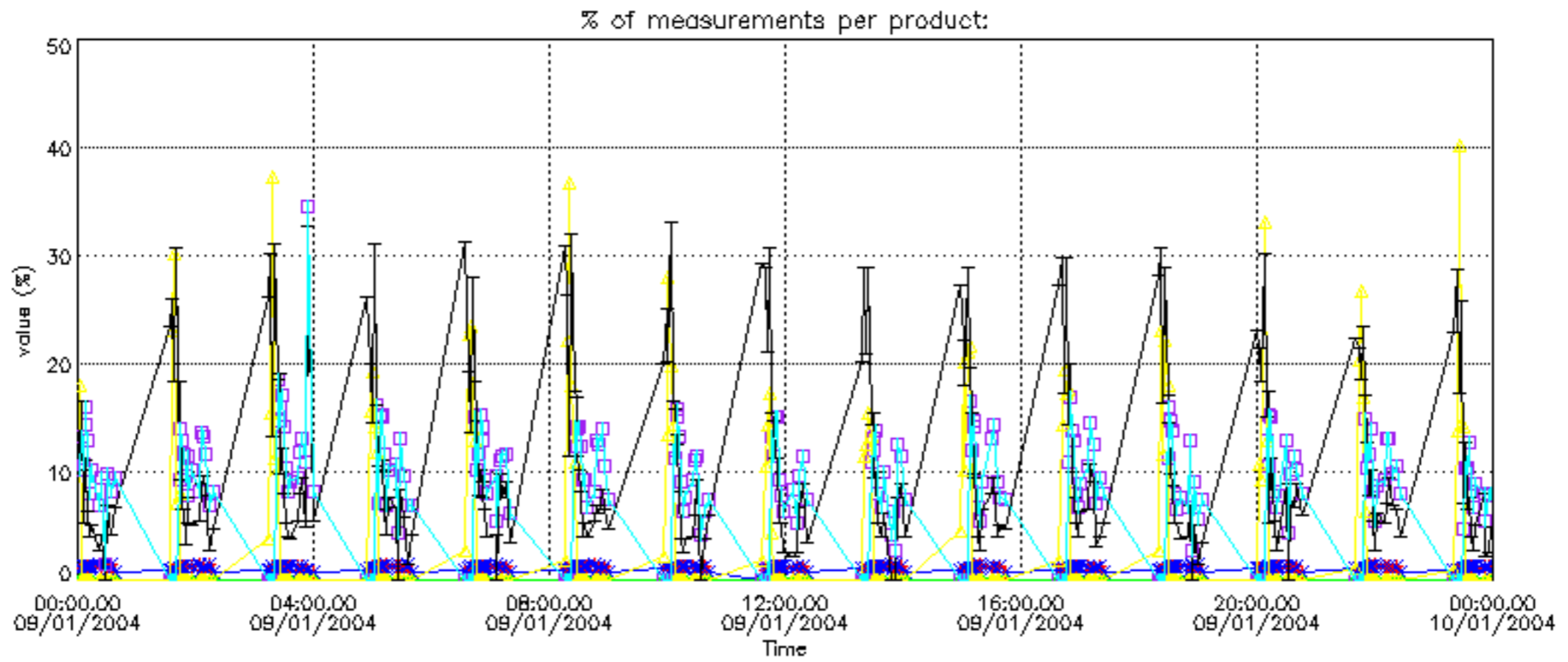
Percentage of flagged data per NO2 profile



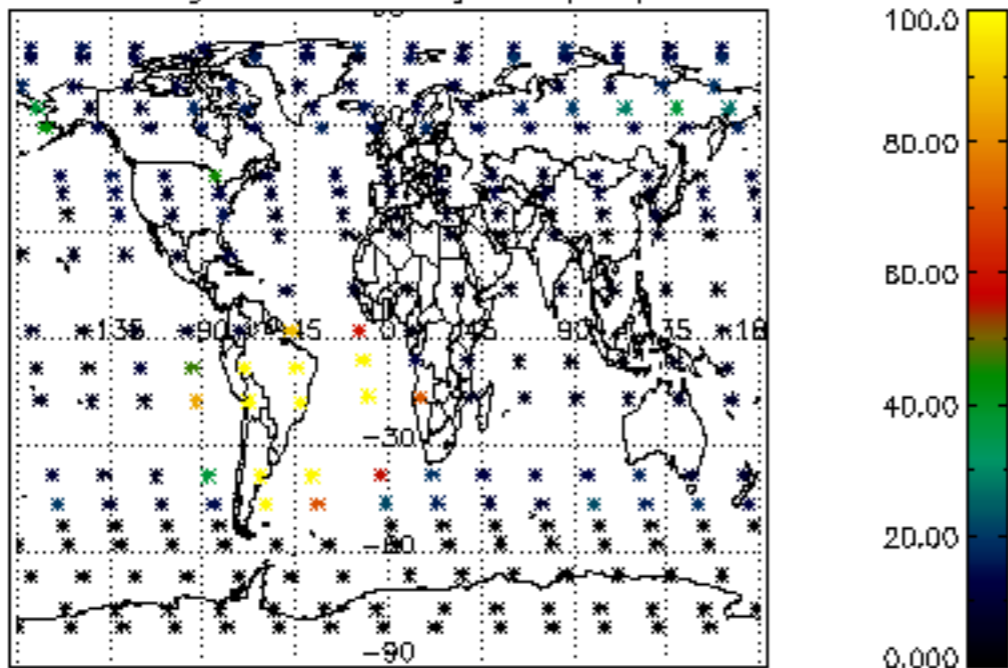
Percentage of flagged data per NO3 profile



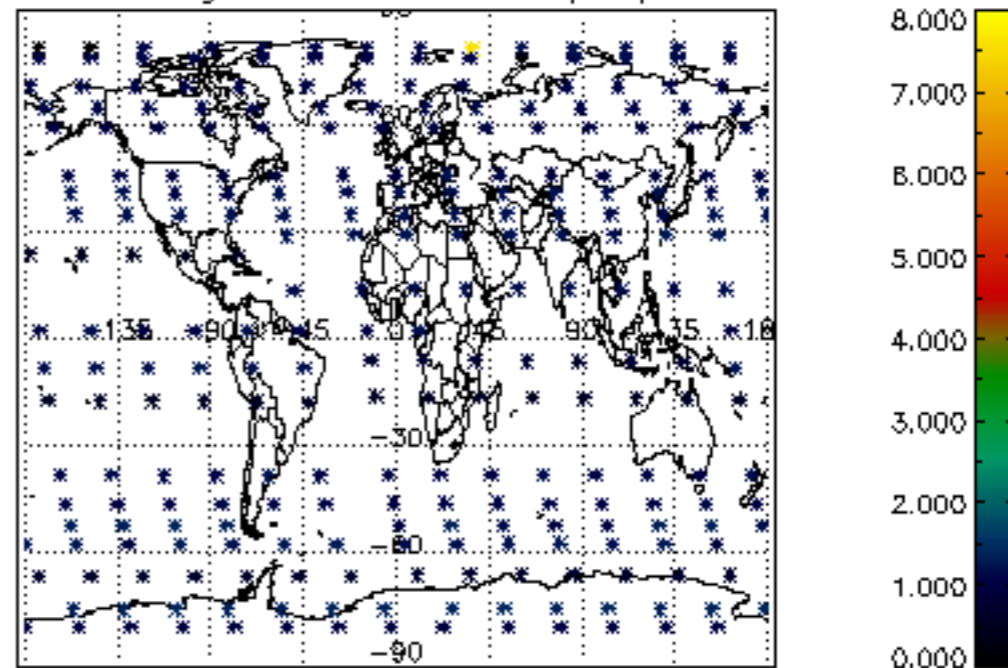




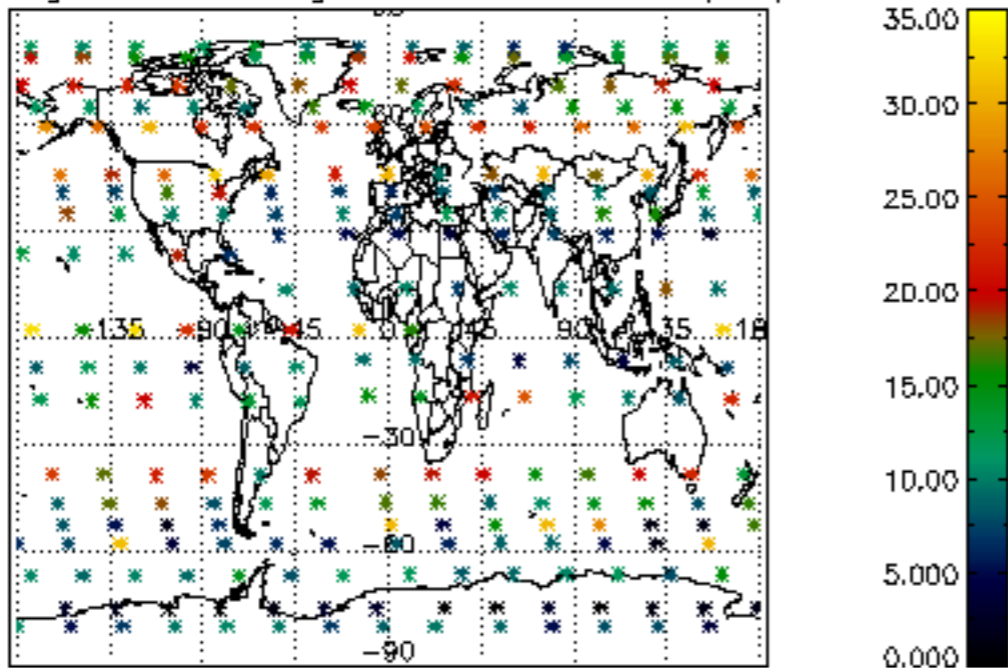
Percentage of cosmic ray hits per profile



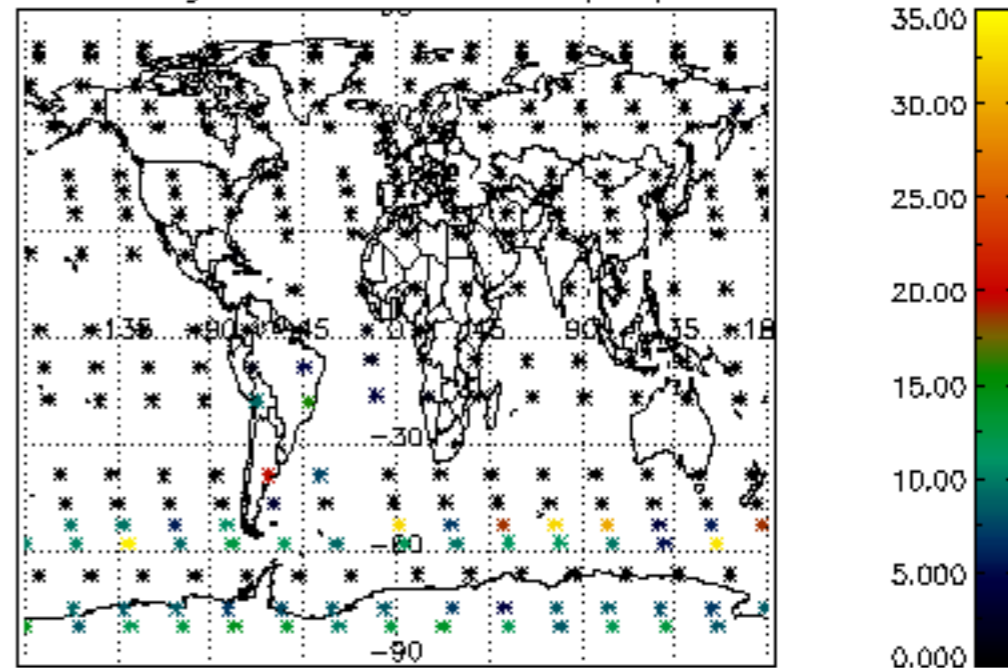
Percentage of datation errors per profile



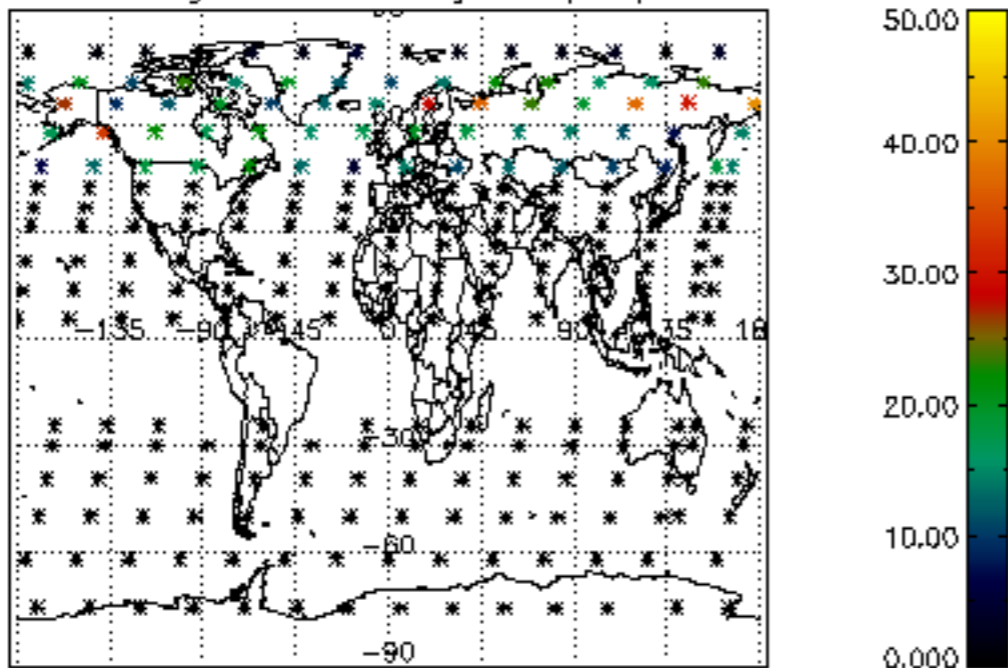
Percentage of star falling outside central band per profile



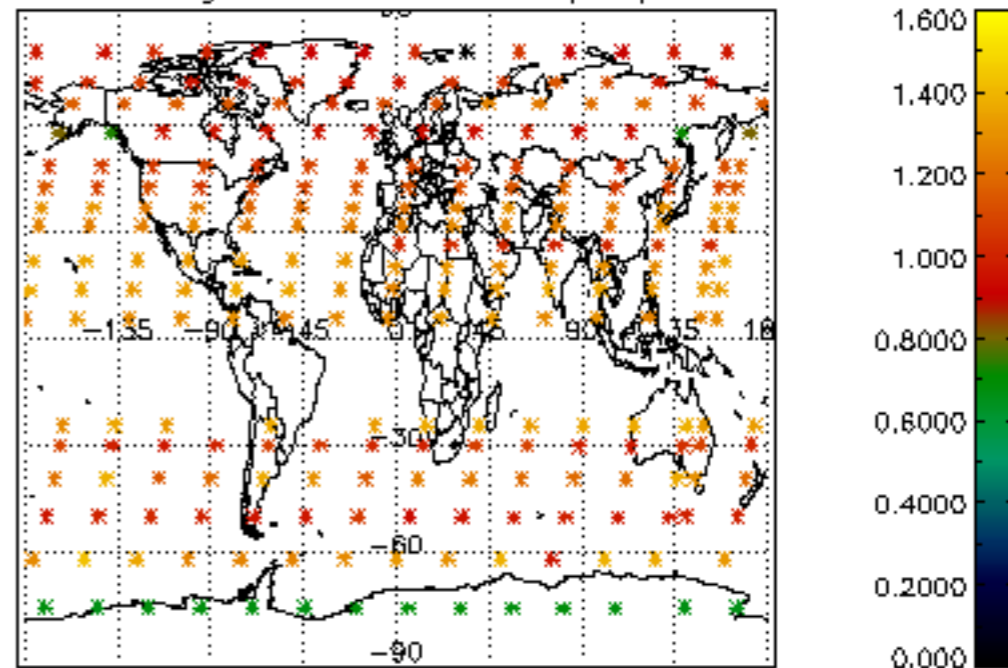
Percentage of saturation errors per profile



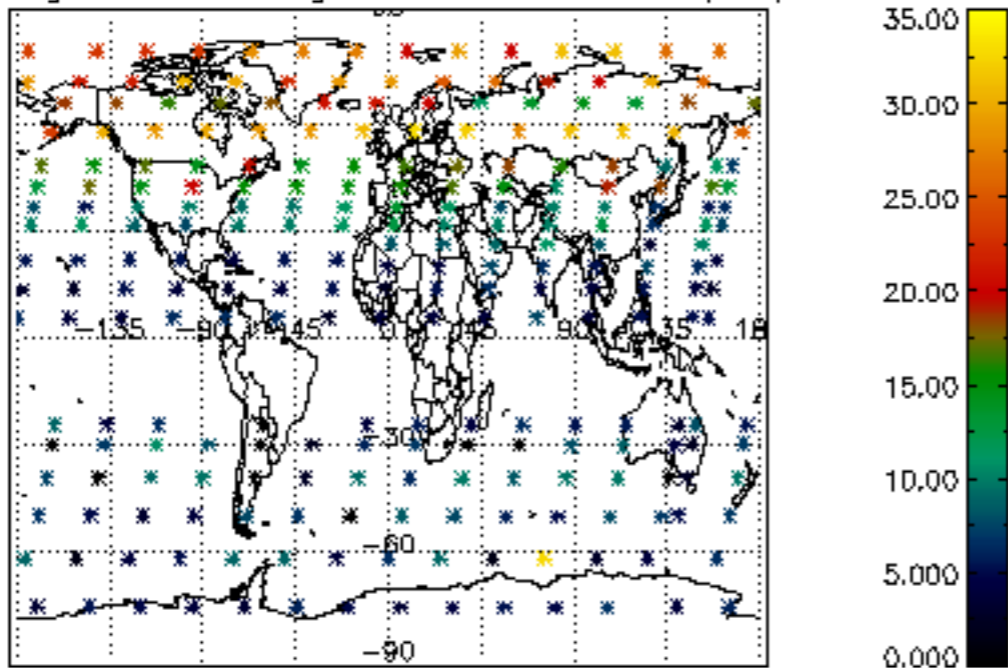
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

