

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	24APR2013 03:12:30
Data source version	GOMOS/6.01
Start time of products	11-08-2006 (11AUG2006 00:00:00)
Stop time of products	12-08-2006 (12AUG2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	216
Nb of prods with errors	0

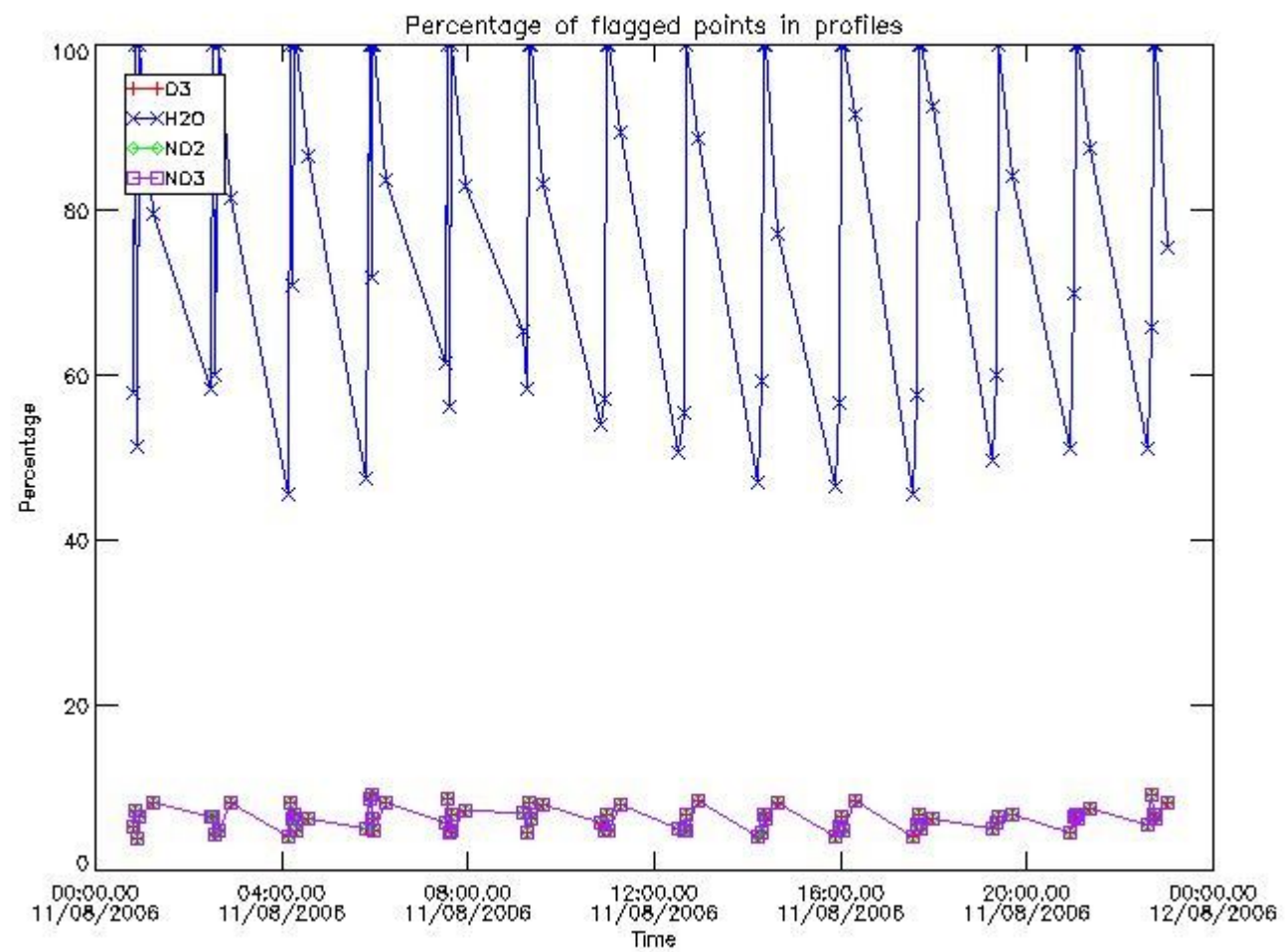
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060811_000019_000000302050_00145_23245_0625.N1	11-AUG-2006 00:00:19	Bright	29.500	11	53Alp Aql	0.76500	8000.0	59	23245	No
2	GOM_NL__2PRFIN20060811_000201_000000302050_00145_23245_0626.N1	11-AUG-2006 00:02:01	Bright	29.500	168	17Zet Aql	2.9860	11000.	59	23245	No
3	GOM_NL__2PRFIN20060811_000910_000000332050_00145_23245_0627.N1	11-AUG-2006 00:09:10	Bright	32.500	5	3Alp Lyr	0.033000	11000.	65	23245	No
4	GOM_NL__2PRFIN20060811_001037_000000302050_00145_23245_0628.N1	11-AUG-2006 00:10:37	Bright	30.000	144	18Del Cyg	2.8600	11000.	60	23245	No
5	GOM_NL__2PRFIN20060811_002319_000000292050_00145_23245_0629.N1	11-AUG-2006 00:23:19	Bright	29.000	49	1Alp UMi	1.9900	6300.0	58	23245	No
6	GOM_NL__2PRFIN20060811_003620_000000302050_00145_23245_0630.N1	11-AUG-2006 00:36:20	Bright	30.000	42	34Bet Aur	1.9000	10200.	60	23245	No
7	GOM_NL__2PRFIN20060811_003841_000000322050_00145_23245_0631.N1	11-AUG-2006 00:38:41	Bright	31.500	107	37The Aur	2.6490	11000.	63	23245	No
8	GOM_NL__2PRFIN20060811_004250_000000402050_00145_23245_0632.N1	11-AUG-2006 00:42:50	Bright	40.000	151	13Mu Gem	2.8900	3000.0	80	23245	No
9	GOM_NL__2PRFIN20060811_004742_000000402050_00145_23245_0633.N1	11-AUG-2006 00:47:42	Dark	39.500	14	58Alp Ori	0.87000	3000.0	79	23245	No
10	GOM_NL__2PRFIN20060811_005047_000000362050_00145_23245_0634.N1	11-AUG-2006 00:50:47	Dark	36.000	33	50Zet Ori	1.7660	30000.	72	23245	No
11	GOM_NL__2PRFIN20060811_005327_000000402050_00145_23245_0635.N1	11-AUG-2006 00:53:27	Dark	39.500	1	9Alp CMa	-1.4400	11000.	79	23245	No
12	GOM_NL__2PRFIN20060811_005528_000000402050_00145_23245_0636.N1	11-AUG-2006 00:55:28	Dark	40.000	101	11Alp Lep	2.5820	7000.0	80	23245	No
13	GOM_NL__2PRFIN20060811_011320_000000372050_00146_23246_0622.N1	11-AUG-2006 01:13:20	Dark	37.000	9	Alp Eri	0.45300	24000.	74	23246	No
14	GOM_NL__2PRFIN20060811_011930_000000432050_00146_23246_0623.N1	11-AUG-2006 01:19:30	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	23246	No
15	GOM_NL__2PRFIN20060811_012301_000000372050_00146_23246_0624.N1	11-AUG-2006 01:23:01	Straylight	36.500	31	Alp Gru	1.7340	15200.	73	23246	No
16	GOM_NL__2PRFIN20060811_014055_000000302050_00146_23246_0625.N1	11-AUG-2006 01:40:55	Bright	30.000	11	53Alp Aql	0.76500	8000.0	60	23246	No
17	GOM_NL__2PRFIN20060811_014237_000000292050_00146_23246_0626.N1	11-AUG-2006 01:42:37	Bright	29.000	168	17Zet Aql	2.9860	11000.	58	23246	No
18	GOM_NL__2PRFIN20060811_014946_000000292050_00146_23246_0627.N1	11-AUG-2006 01:49:46	Bright	28.500	5	3Alp Lyr	0.033000	11000.	57	23246	No
19	GOM_NL__2PRFIN20060811_015112_000000282050_00146_23246_0628.N1	11-AUG-2006 01:51:12	Bright	28.000	144	18Del Cyg	2.8600	11000.	56	23246	No
20	GOM_NL__2PRFIN20060811_020355_000000282050_00146_23246_0629.N1	11-AUG-2006 02:03:55	Bright	28.000	49	1Alp UMi	1.9900	6300.0	56	23246	No
21	GOM_NL__2PRFIN20060811_021656_000000322050_00146_23246_0630.N1	11-AUG-2006 02:16:56	Bright	31.500	42	34Bet Aur	1.9000	10200.	63	23246	No
22	GOM_NL__2PRFIN20060811_021917_000000312050_00146_23246_0631.N1	11-AUG-2006 02:19:17	Bright	31.000	107	37The Aur	2.6490	11000.	62	23246	No
23	GOM_NL__2PRFIN20060811_022326_000000362050_00146_23246_0632.N1	11-AUG-2006 02:23:26	Bright	35.500	151	13Mu Gem	2.8900	3000.0	71	23246	No
24	GOM_NL__2PRFIN20060811_022818_000000402050_00146_23246_0633.N1	11-AUG-2006 02:28:18	Dark	40.000	14	58Alp Ori	0.87000	3000.0	80	23246	No
25	GOM_NL__2PRFIN20060811_023124_000000392050_00146_23246_0634.N1	11-AUG-2006 02:31:24	Dark	39.000	33	50Zet Ori	1.7660	30000.	78	23246	No
26	GOM_NL__2PRFIN20060811_023404_000000362050_00146_23246_0635.N1	11-AUG-2006 02:34:04	Dark	35.500	1	9Alp CMa	-1.4400	11000.	71	23246	No
27	GOM_NL__2PRFIN20060811_023806_000000332050_00146_23246_0636.N1	11-AUG-2006 02:38:06	Dark	32.500	177	1Zet CMa	3.0220	26000.	65	23246	No
28	GOM_NL__2PRFIN20060811_025357_000000382050_00147_23247_0622.N1	11-AUG-2006 02:53:57	Dark	38.000	9	Alp Eri	0.45300	24000.	76	23247	No
29	GOM_NL__2PRFIN20060811_030007_000000362050_00147_23247_0623.N1	11-AUG-2006 03:00:07	Straylight	36.000	148	Alp Tuc	2.8780	4100.0	72	23247	No
30	GOM_NL__2PRFIN20060811_030338_000000352050_00147_23247_0624.N1	11-AUG-2006 03:03:38	Straylight	35.000	31	Alp Gru	1.7340	15200.	70	23247	No
31	GOM_NL__2PRFIN20060811_032131_000000302050_00147_23247_0625.N1	11-AUG-2006 03:21:31	Bright	29.500	11	53Alp Aql	0.76500	8000.0	59	23247	No
32	GOM_NL__2PRFIN20060811_032313_000000302050_00147_23247_0626.N1	11-AUG-2006 03:23:13	Bright	29.500	168	17Zet Aql	2.9860	11000.	59	23247	No
33	GOM_NL__2PRFIN20060811_033022_000000322050_00147_23247_0627.N1	11-AUG-2006 03:30:22	Bright	32.000	5	3Alp Lyr	0.033000	11000.	64	23247	No
34	GOM_NL__2PRFIN20060811_033148_000000292050_00147_23247_0628.N1	11-AUG-2006 03:31:48	Bright	28.500	144	18Del Cyg	2.8600	11000.	57	23247	No
35	GOM_NL__2PRFIN20060811_034431_000000282050_00147_23247_0629.N1	11-AUG-2006 03:44:31	Bright	27.500	49	1Alp UMi	1.9900	6300.0	55	23247	No
36	GOM_NL__2PRFIN20060811_035732_000000322050_00147_23247_0630.N1	11-AUG-2006 03:57:32	Bright	31.500	42	34Bet Aur	1.9000	10200.	63	23247	No
37	GOM_NL__2PRFIN20060811_035953_000000312050_00147_23247_0631.N1	11-AUG-2006 03:59:53	Bright	30.500	107	37The Aur	2.6490	11000.	61	23247	No
38	GOM_NL__2PRFIN20060811_040402_000000342050_00147_23247_0632.N1	11-AUG-2006 04:04:02	Bright	33.500	151	13Mu Gem	2.8900	3000.0	67	23247	No
39	GOM_NL__2PRFIN20060811_040855_000000502050_00147_23247_0633.N1	11-AUG-2006 04:08:55	Dark	50.000	14	58Alp Ori	0.87000	3000.0	100	23247	No
40	GOM_NL__2PRFIN20060811_041200_000000382050_00147_23247_0634.N1	11-AUG-2006 04:12:00	Dark	37.500	33	50Zet Ori	1.7660	30000.	75	23247	No
41	GOM_NL__2PRFIN20060811_041440_000000332050_00147_23247_0635.N1	11-AUG-2006 04:14:40	Dark	33.000	1	9Alp CMa	-1.4400	11000.	66	23247	No
42	GOM_NL__2PRFIN20060811_041642_000000382050_00147_23247_0636.N1	11-AUG-2006 04:16:42	Dark	38.000	101	11Alp Lep	2.5820	7000.0	76	23247	No

3. Quality information per product

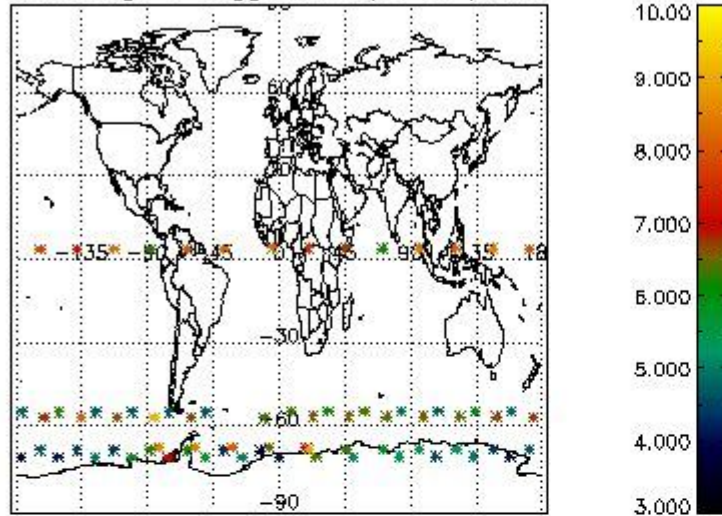
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

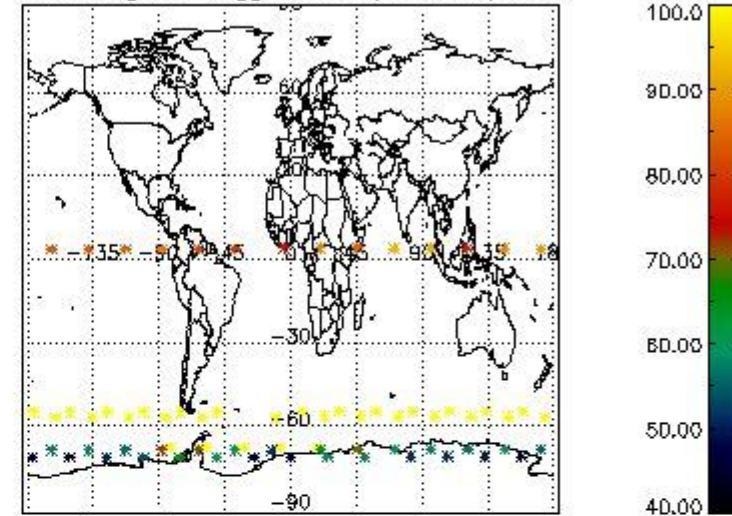


3.2 Plot quality information per product (world map)

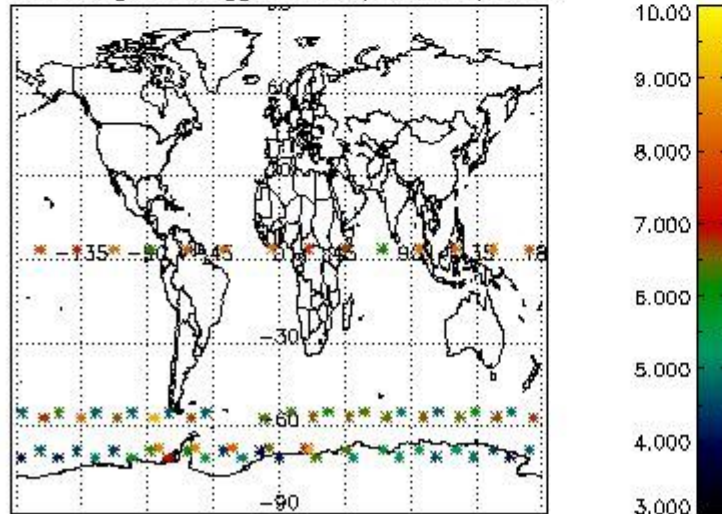
Percentage of flagged data per O3 profile



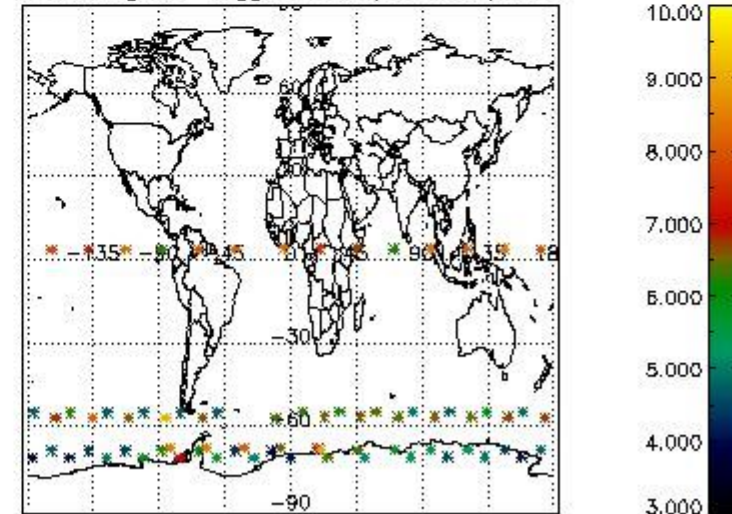
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

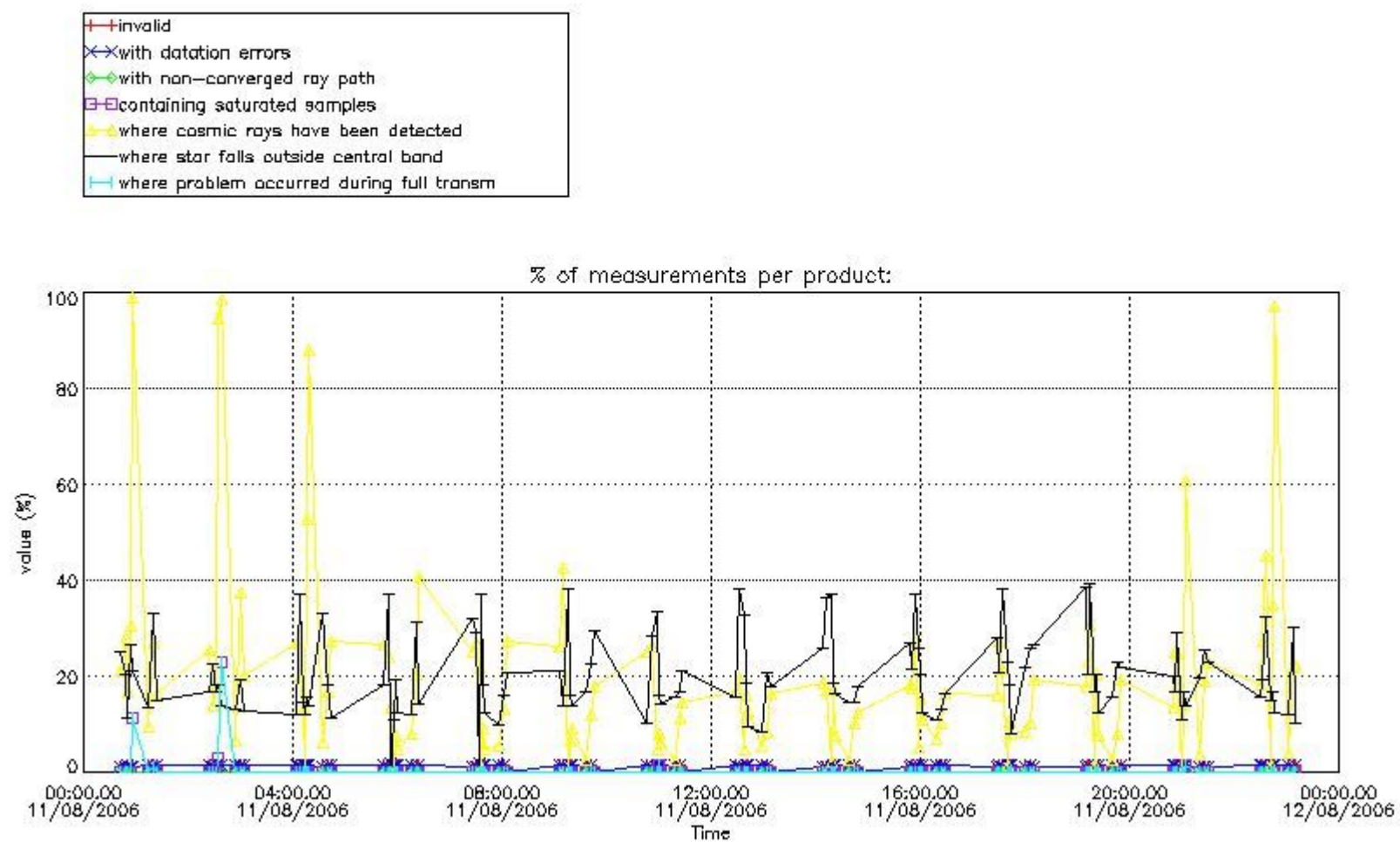


4. Level 1 quality information per product

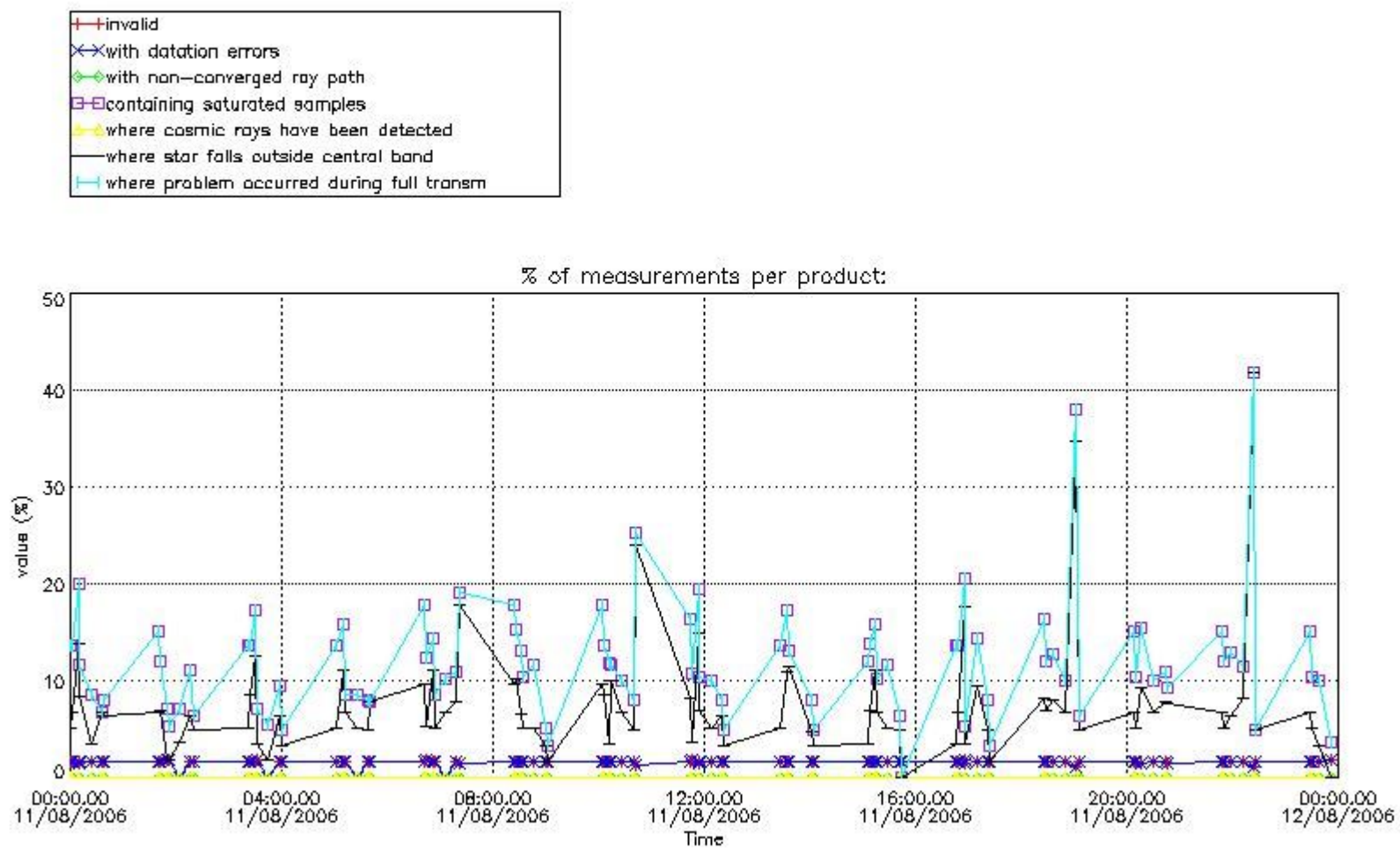
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

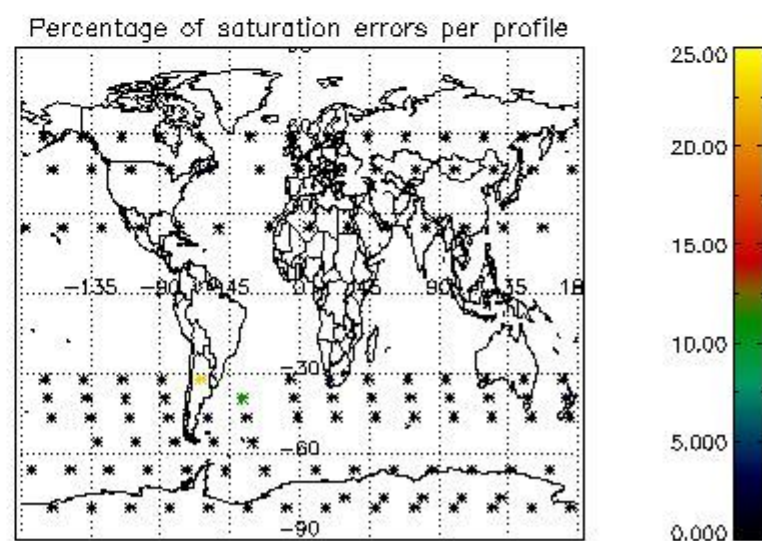
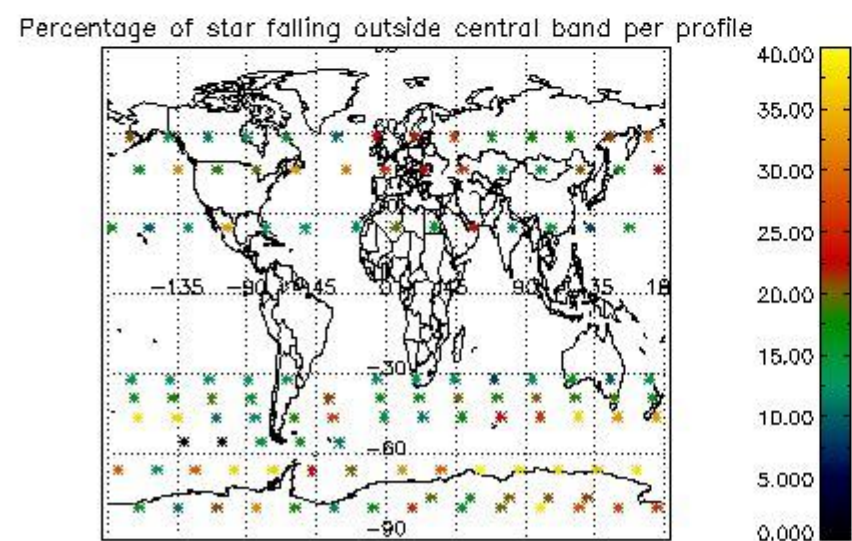
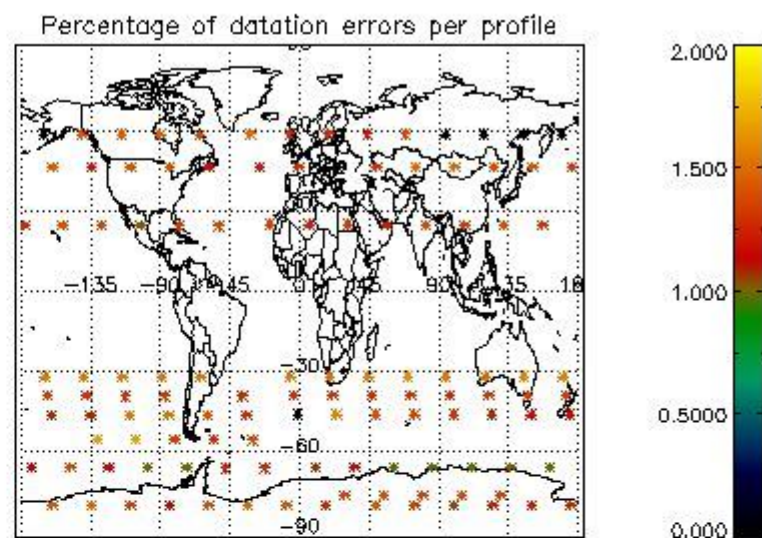
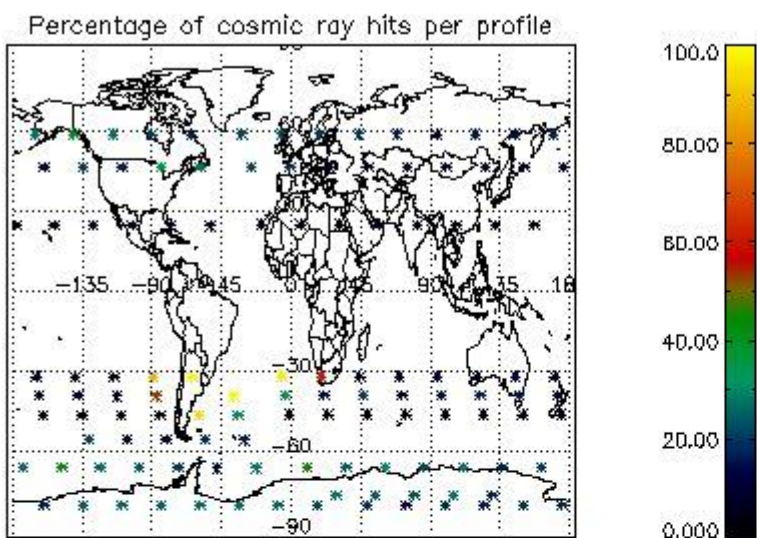


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

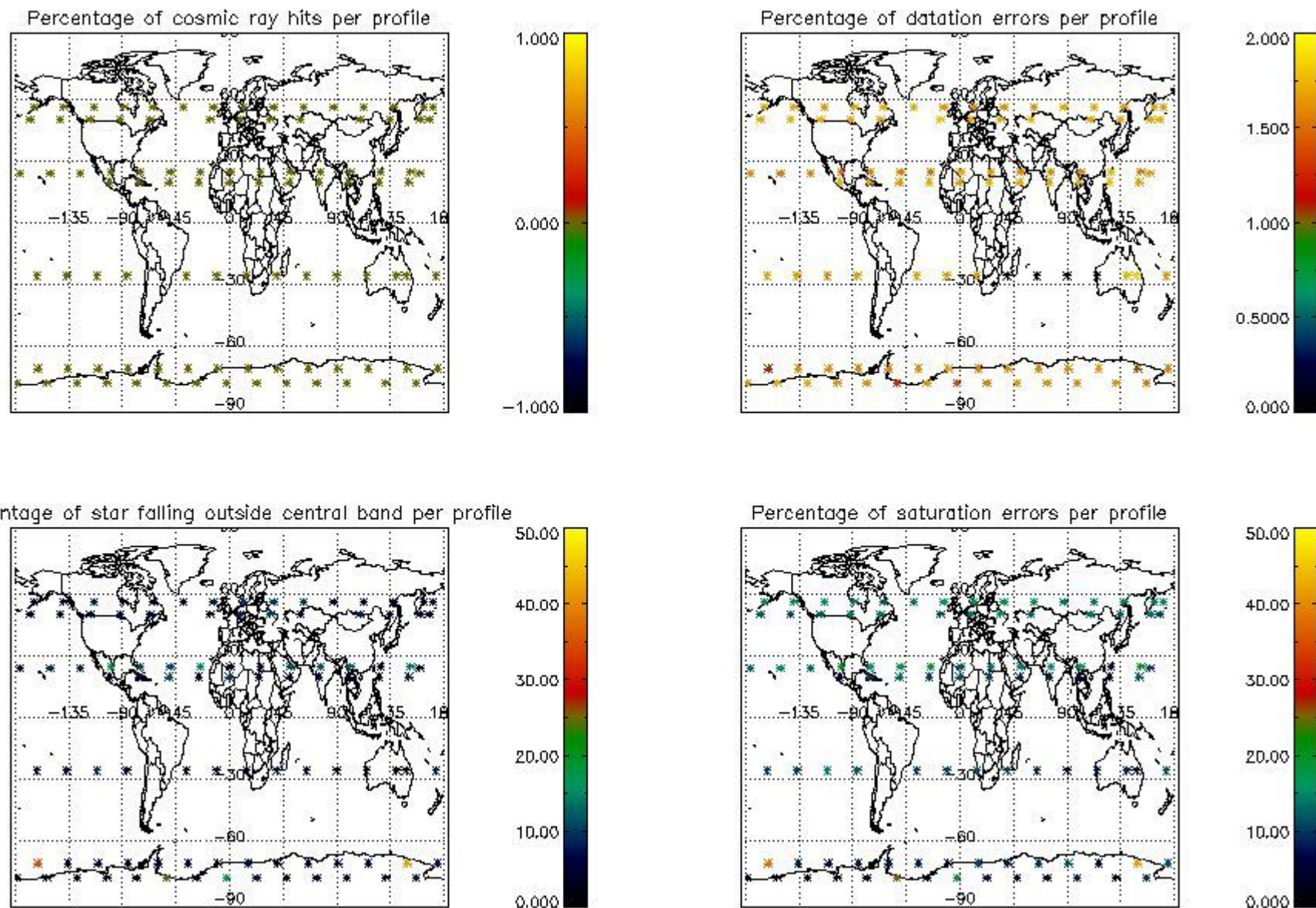


4.2 Plot quality information per product coming from level 1b processing (world map)

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

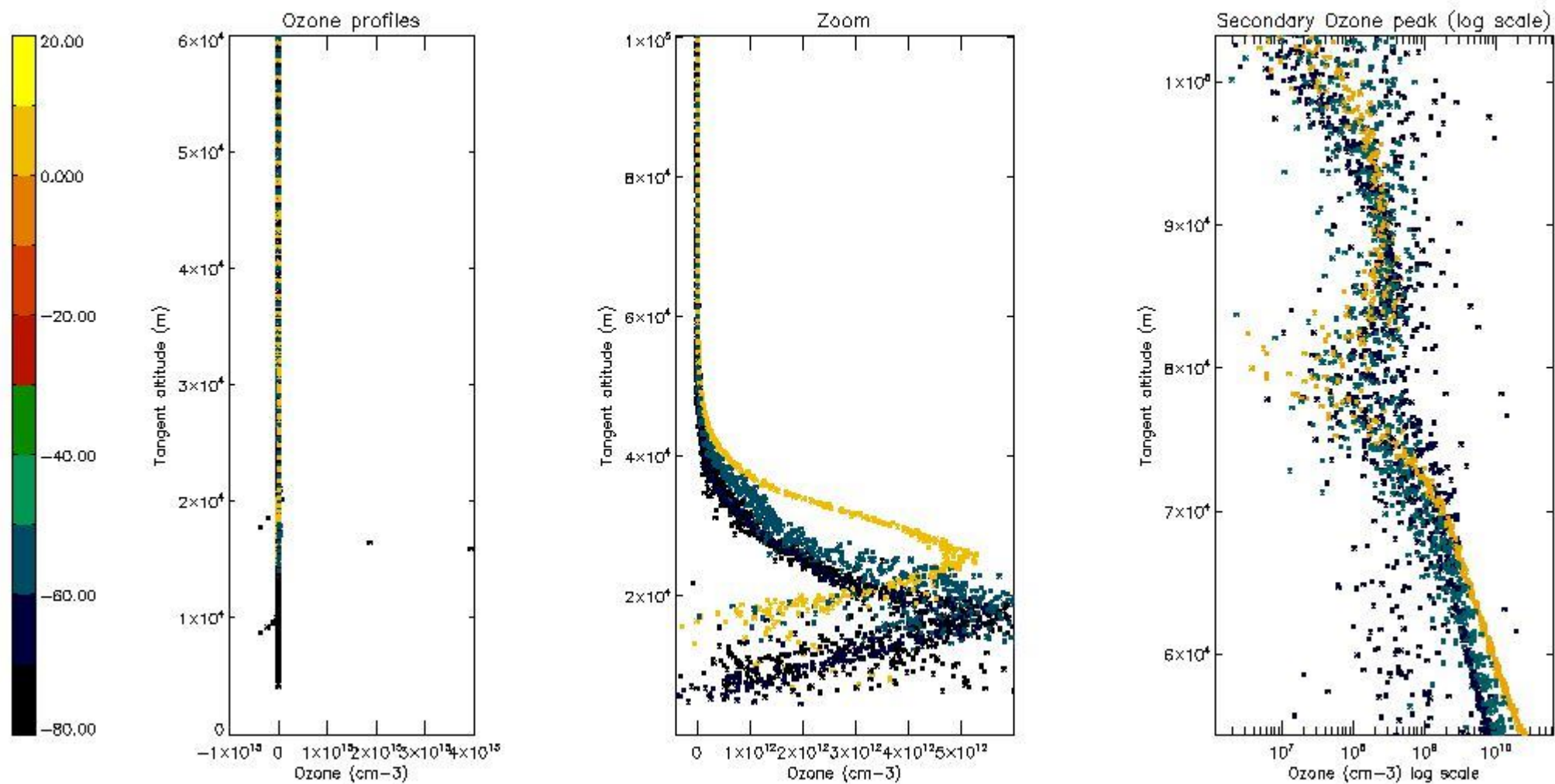
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	23

STD < 10	19
STD < 5	14

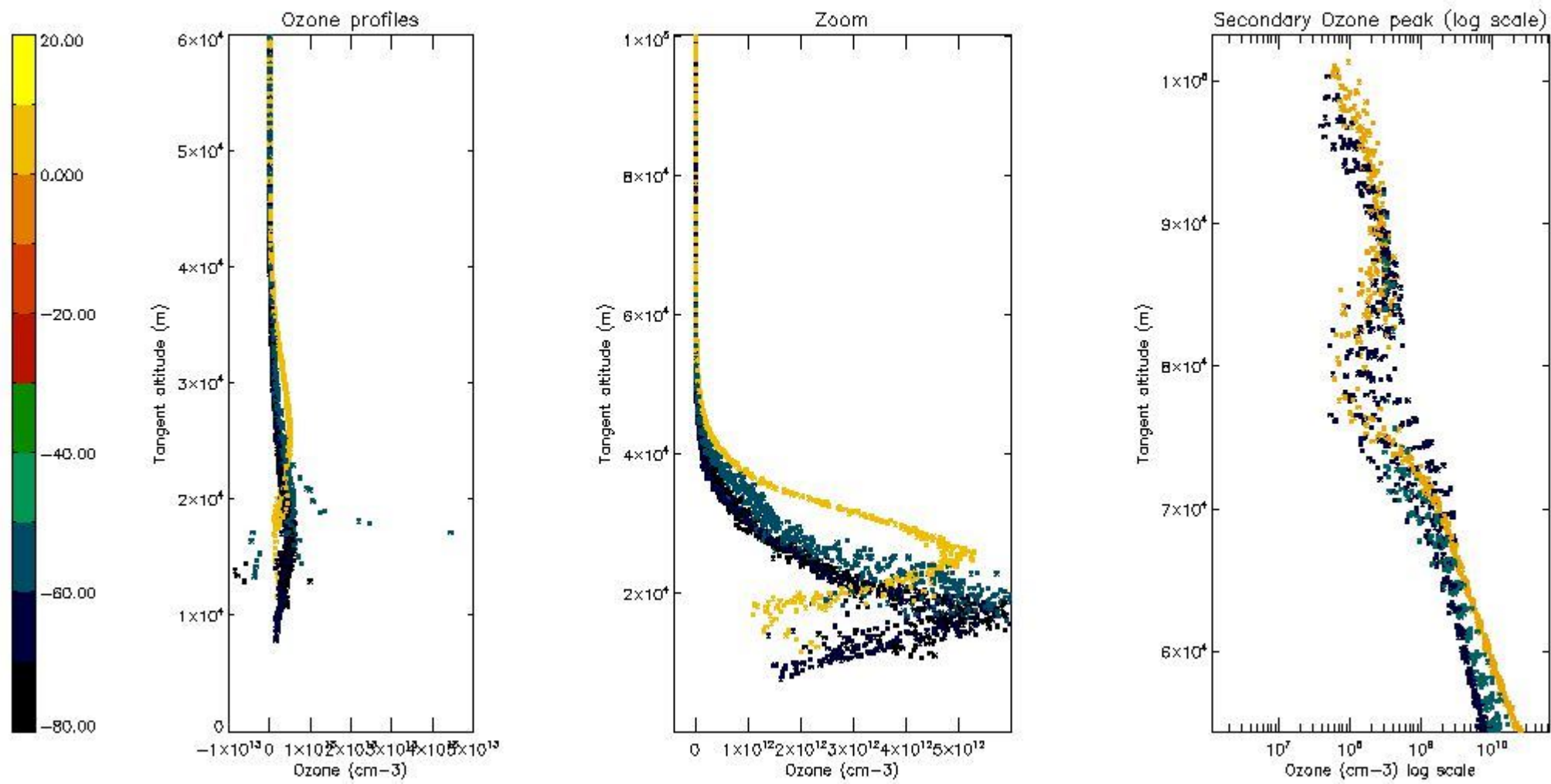
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



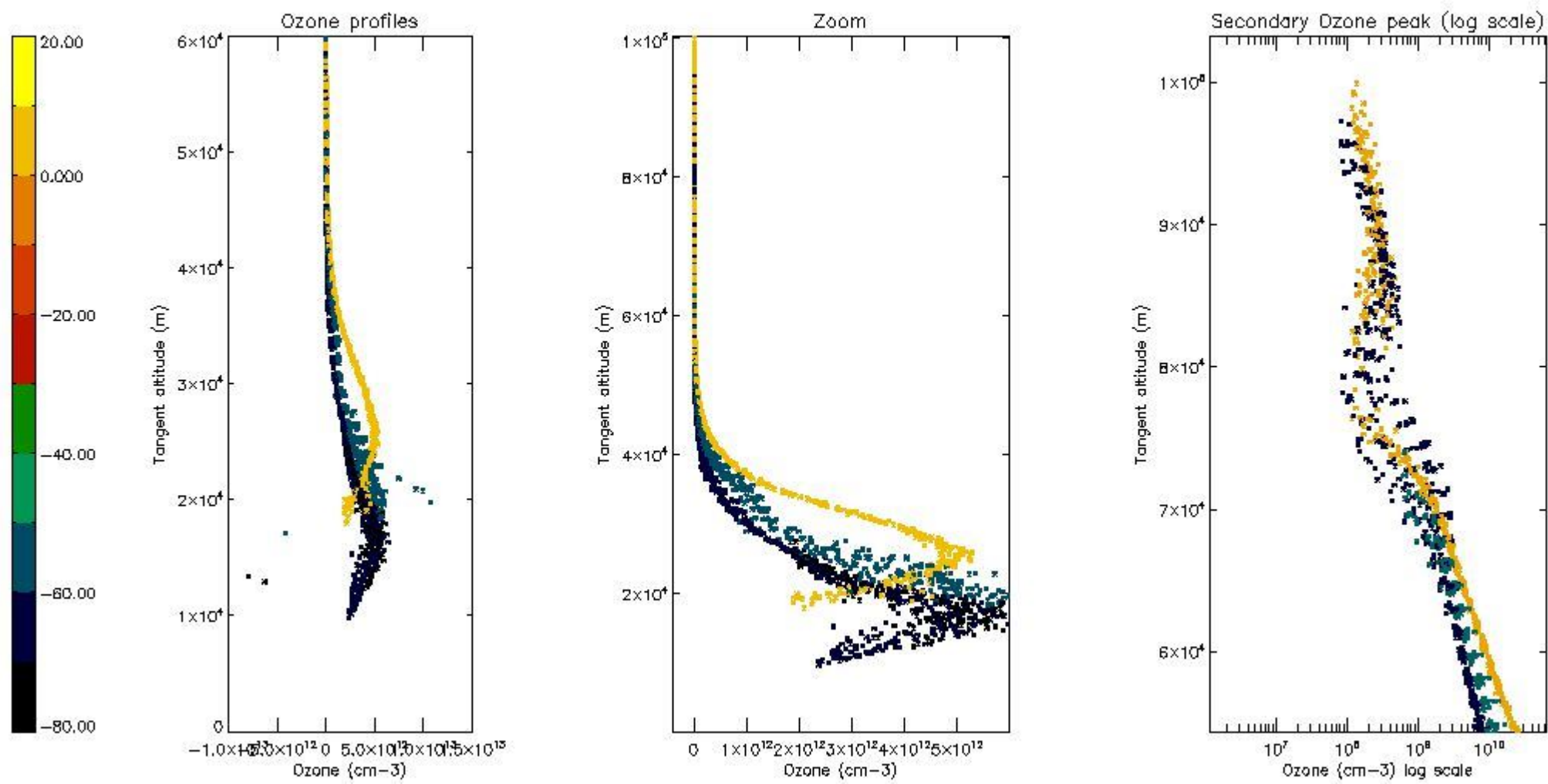
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



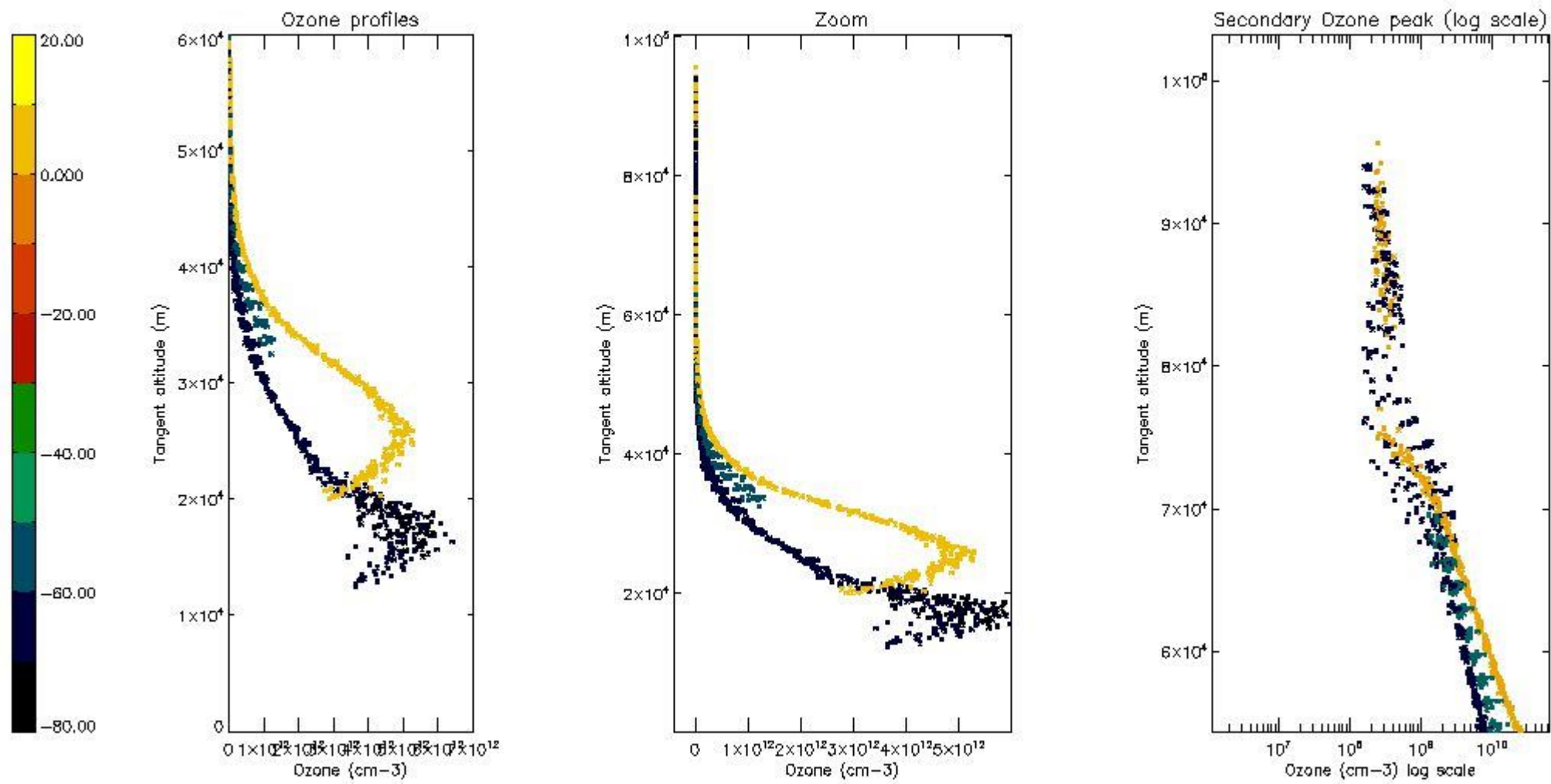
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



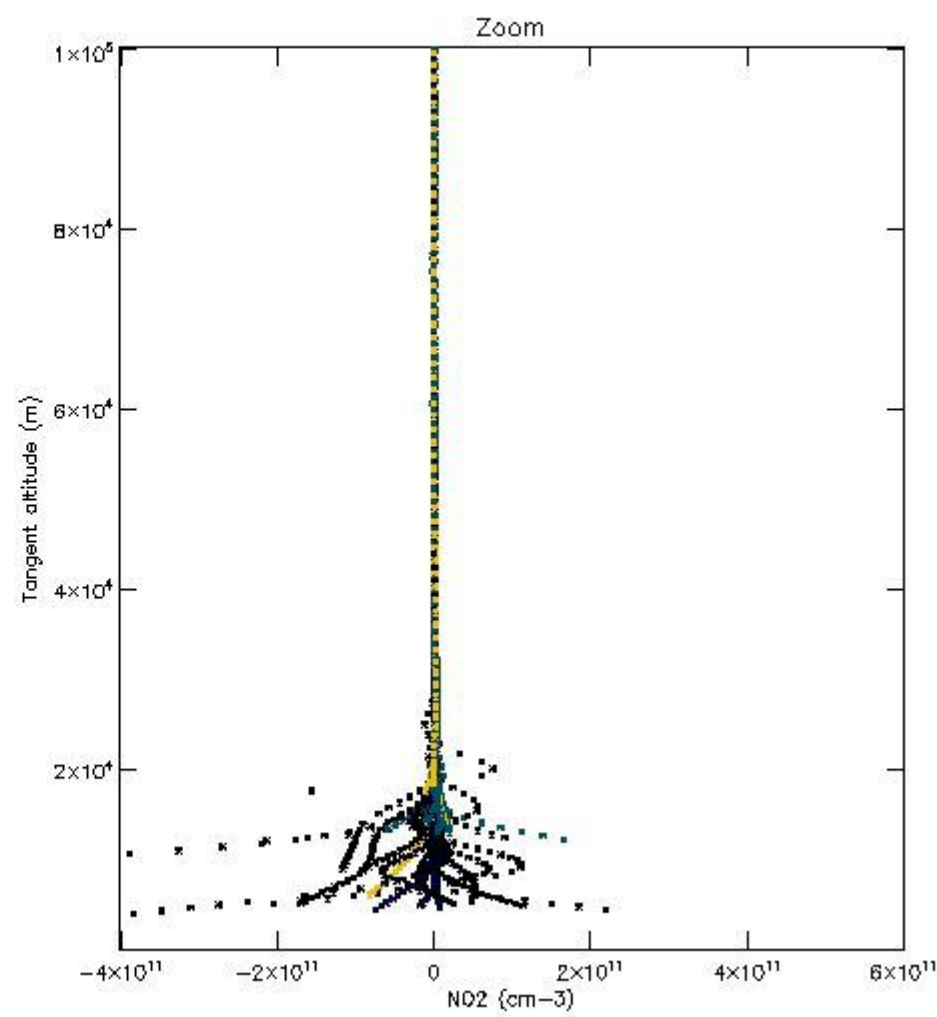
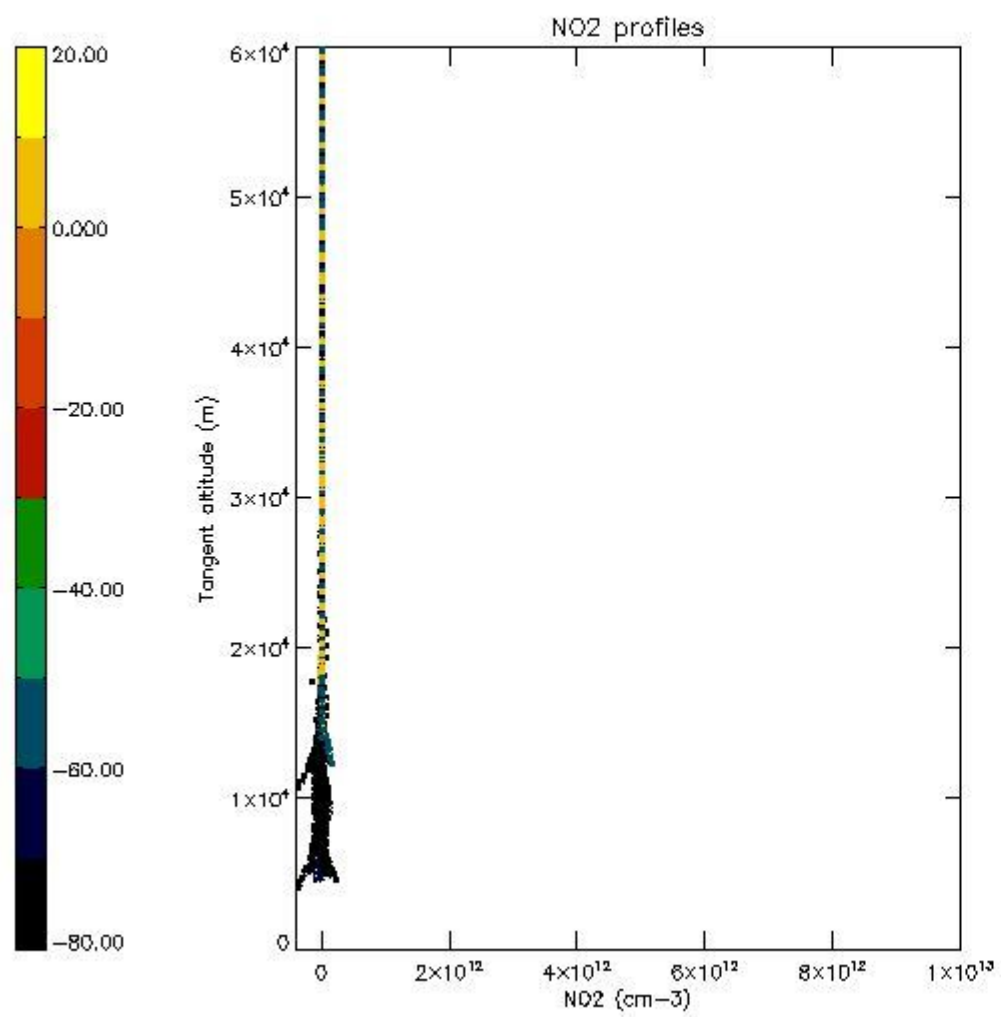
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



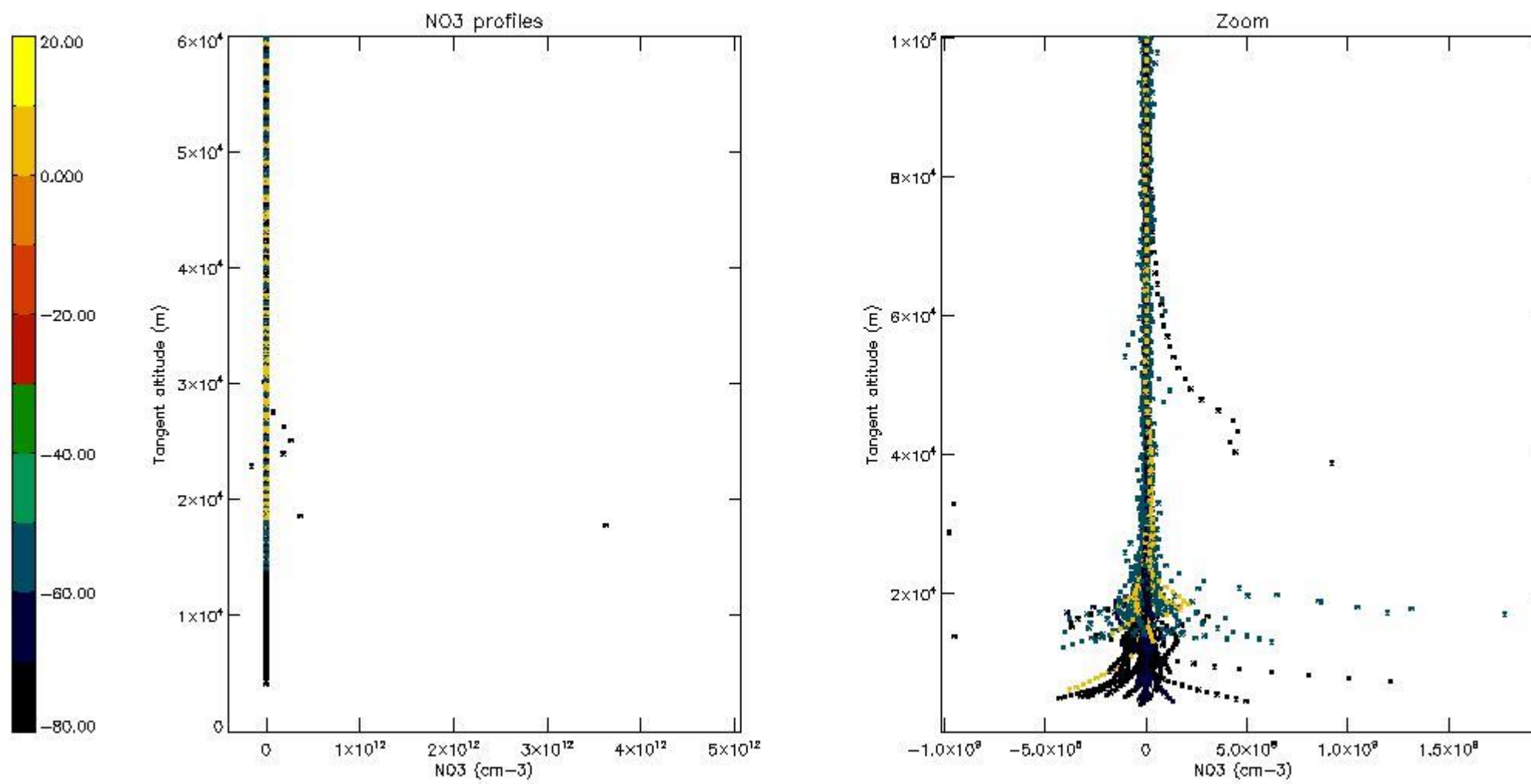
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



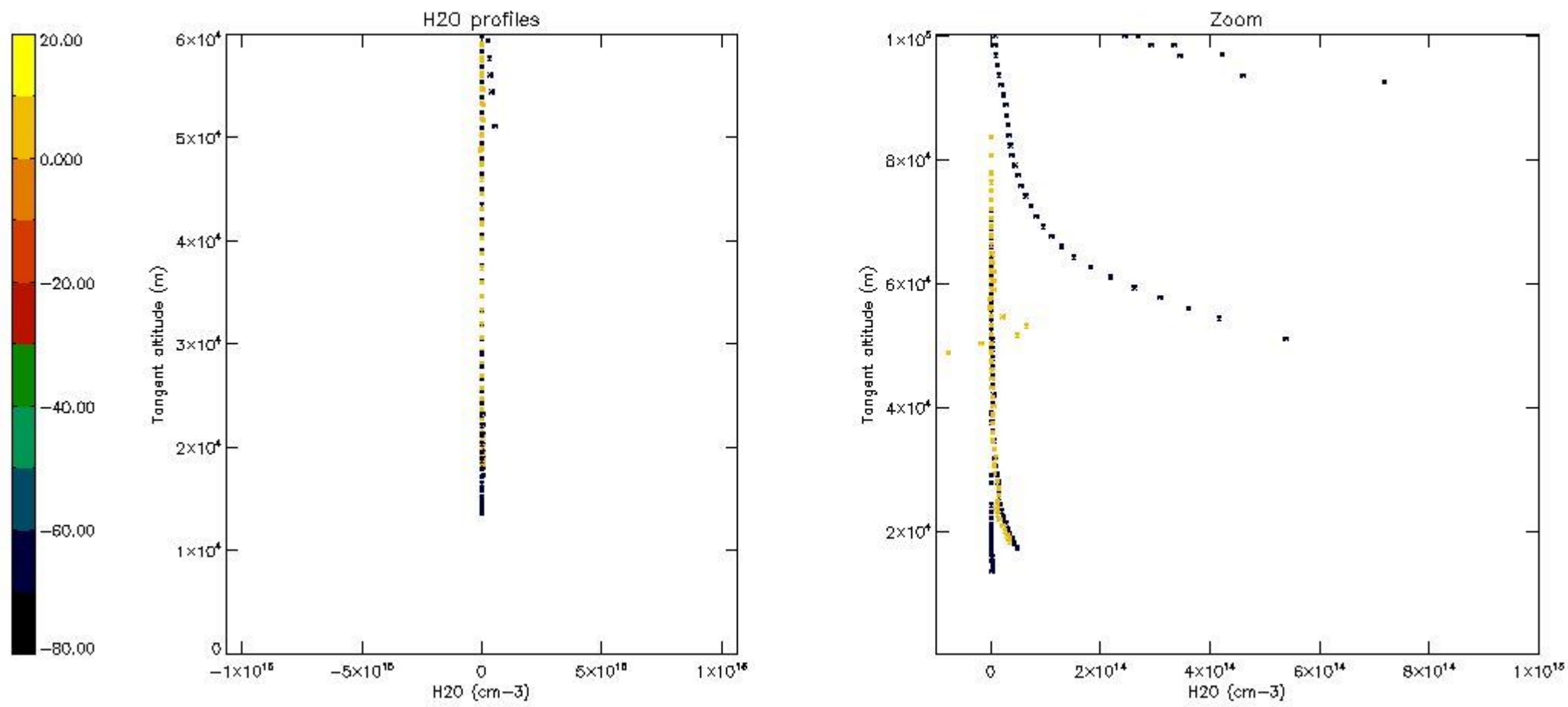
5.7 Plot NO3 profiles for all STD (dark without errors)

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	11-AUG-2006 00:00:19
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	11-AUG-2006 00:00:19
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	11-AUG-2006 00:00:19

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[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	24APR2013 03:12:30
Data source version	GOMOS/6.01
Start time of products	11-08-2006 (11AUG2006 00:00:00)
Stop time of products	12-08-2006 (12AUG2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	216
Nb of prods with errors	0

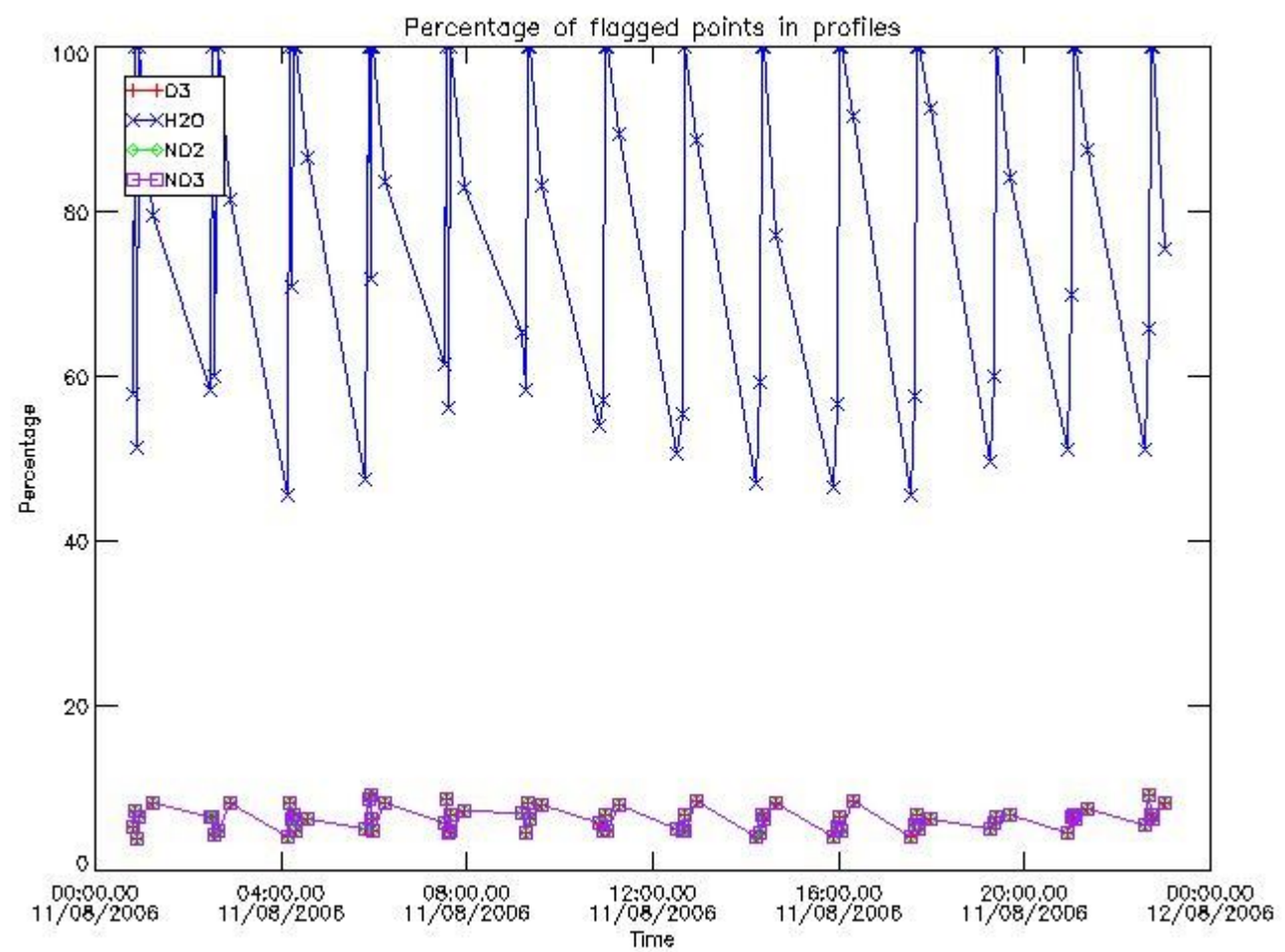
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060811_000019_000000302050_00145_23245_0625.N1	11-AUG-2006 00:00:19	Bright	29.500	11	53Alp Aql	0.76500	8000.0	59	23245	No
2	GOM_NL__2PRFIN20060811_000201_000000302050_00145_23245_0626.N1	11-AUG-2006 00:02:01	Bright	29.500	168	17Zet Aql	2.9860	11000.	59	23245	No
3	GOM_NL__2PRFIN20060811_000910_000000332050_00145_23245_0627.N1	11-AUG-2006 00:09:10	Bright	32.500	5	3Alp Lyr	0.033000	11000.	65	23245	No
4	GOM_NL__2PRFIN20060811_001037_000000302050_00145_23245_0628.N1	11-AUG-2006 00:10:37	Bright	30.000	144	18Del Cyg	2.8600	11000.	60	23245	No
5	GOM_NL__2PRFIN20060811_002319_000000292050_00145_23245_0629.N1	11-AUG-2006 00:23:19	Bright	29.000	49	1Alp UMi	1.9900	6300.0	58	23245	No
6	GOM_NL__2PRFIN20060811_003620_000000302050_00145_23245_0630.N1	11-AUG-2006 00:36:20	Bright	30.000	42	34Bet Aur	1.9000	10200.	60	23245	No
7	GOM_NL__2PRFIN20060811_003841_000000322050_00145_23245_0631.N1	11-AUG-2006 00:38:41	Bright	31.500	107	37The Aur	2.6490	11000.	63	23245	No
8	GOM_NL__2PRFIN20060811_004250_000000402050_00145_23245_0632.N1	11-AUG-2006 00:42:50	Bright	40.000	151	13Mu Gem	2.8900	3000.0	80	23245	No
9	GOM_NL__2PRFIN20060811_004742_000000402050_00145_23245_0633.N1	11-AUG-2006 00:47:42	Dark	39.500	14	58Alp Ori	0.87000	3000.0	79	23245	No
10	GOM_NL__2PRFIN20060811_005047_000000362050_00145_23245_0634.N1	11-AUG-2006 00:50:47	Dark	36.000	33	50Zet Ori	1.7660	30000.	72	23245	No
11	GOM_NL__2PRFIN20060811_005327_000000402050_00145_23245_0635.N1	11-AUG-2006 00:53:27	Dark	39.500	1	9Alp CMa	-1.4400	11000.	79	23245	No
12	GOM_NL__2PRFIN20060811_005528_000000402050_00145_23245_0636.N1	11-AUG-2006 00:55:28	Dark	40.000	101	11Alp Lep	2.5820	7000.0	80	23245	No
13	GOM_NL__2PRFIN20060811_011320_000000372050_00146_23246_0622.N1	11-AUG-2006 01:13:20	Dark	37.000	9	Alp Eri	0.45300	24000.	74	23246	No
14	GOM_NL__2PRFIN20060811_011930_000000432050_00146_23246_0623.N1	11-AUG-2006 01:19:30	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	23246	No
15	GOM_NL__2PRFIN20060811_012301_000000372050_00146_23246_0624.N1	11-AUG-2006 01:23:01	Straylight	36.500	31	Alp Gru	1.7340	15200.	73	23246	No
16	GOM_NL__2PRFIN20060811_014055_000000302050_00146_23246_0625.N1	11-AUG-2006 01:40:55	Bright	30.000	11	53Alp Aql	0.76500	8000.0	60	23246	No
17	GOM_NL__2PRFIN20060811_014237_000000292050_00146_23246_0626.N1	11-AUG-2006 01:42:37	Bright	29.000	168	17Zet Aql	2.9860	11000.	58	23246	No
18	GOM_NL__2PRFIN20060811_014946_000000292050_00146_23246_0627.N1	11-AUG-2006 01:49:46	Bright	28.500	5	3Alp Lyr	0.033000	11000.	57	23246	No
19	GOM_NL__2PRFIN20060811_015112_000000282050_00146_23246_0628.N1	11-AUG-2006 01:51:12	Bright	28.000	144	18Del Cyg	2.8600	11000.	56	23246	No
20	GOM_NL__2PRFIN20060811_020355_000000282050_00146_23246_0629.N1	11-AUG-2006 02:03:55	Bright	28.000	49	1Alp UMi	1.9900	6300.0	56	23246	No
21	GOM_NL__2PRFIN20060811_021656_000000322050_00146_23246_0630.N1	11-AUG-2006 02:16:56	Bright	31.500	42	34Bet Aur	1.9000	10200.	63	23246	No
22	GOM_NL__2PRFIN20060811_021917_000000312050_00146_23246_0631.N1	11-AUG-2006 02:19:17	Bright	31.000	107	37The Aur	2.6490	11000.	62	23246	No
23	GOM_NL__2PRFIN20060811_022326_000000362050_00146_23246_0632.N1	11-AUG-2006 02:23:26	Bright	35.500	151	13Mu Gem	2.8900	3000.0	71	23246	No
24	GOM_NL__2PRFIN20060811_022818_000000402050_00146_23246_0633.N1	11-AUG-2006 02:28:18	Dark	40.000	14	58Alp Ori	0.87000	3000.0	80	23246	No
25	GOM_NL__2PRFIN20060811_023124_000000392050_00146_23246_0634.N1	11-AUG-2006 02:31:24	Dark	39.000	33	50Zet Ori	1.7660	30000.	78	23246	No
26	GOM_NL__2PRFIN20060811_023404_000000362050_00146_23246_0635.N1	11-AUG-2006 02:34:04	Dark	35.500	1	9Alp CMa	-1.4400	11000.	71	23246	No
27	GOM_NL__2PRFIN20060811_023806_000000332050_00146_23246_0636.N1	11-AUG-2006 02:38:06	Dark	32.500	177	1Zet CMa	3.0220	26000.	65	23246	No
28	GOM_NL__2PRFIN20060811_025357_000000382050_00147_23247_0622.N1	11-AUG-2006 02:53:57	Dark	38.000	9	Alp Eri	0.45300	24000.	76	23247	No
29	GOM_NL__2PRFIN20060811_030007_000000362050_00147_23247_0623.N1	11-AUG-2006 03:00:07	Straylight	36.000	148	Alp Tuc	2.8780	4100.0	72	23247	No
30	GOM_NL__2PRFIN20060811_030338_000000352050_00147_23247_0624.N1	11-AUG-2006 03:03:38	Straylight	35.000	31	Alp Gru	1.7340	15200.	70	23247	No
31	GOM_NL__2PRFIN20060811_032131_000000302050_00147_23247_0625.N1	11-AUG-2006 03:21:31	Bright	29.500	11	53Alp Aql	0.76500	8000.0	59	23247	No
32	GOM_NL__2PRFIN20060811_032313_000000302050_00147_23247_0626.N1	11-AUG-2006 03:23:13	Bright	29.500	168	17Zet Aql	2.9860	11000.	59	23247	No
33	GOM_NL__2PRFIN20060811_033022_000000322050_00147_23247_0627.N1	11-AUG-2006 03:30:22	Bright	32.000	5	3Alp Lyr	0.033000	11000.	64	23247	No
34	GOM_NL__2PRFIN20060811_033148_000000292050_00147_23247_0628.N1	11-AUG-2006 03:31:48	Bright	28.500	144	18Del Cyg	2.8600	11000.	57	23247	No
35	GOM_NL__2PRFIN20060811_034431_000000282050_00147_23247_0629.N1	11-AUG-2006 03:44:31	Bright	27.500	49	1Alp UMi	1.9900	6300.0	55	23247	No
36	GOM_NL__2PRFIN20060811_035732_000000322050_00147_23247_0630.N1	11-AUG-2006 03:57:32	Bright	31.500	42	34Bet Aur	1.9000	10200.	63	23247	No
37	GOM_NL__2PRFIN20060811_035953_000000312050_00147_23247_0631.N1	11-AUG-2006 03:59:53	Bright	30.500	107	37The Aur	2.6490	11000.	61	23247	No
38	GOM_NL__2PRFIN20060811_040402_000000342050_00147_23247_0632.N1	11-AUG-2006 04:04:02	Bright	33.500	151	13Mu Gem	2.8900	3000.0	67	23247	No
39	GOM_NL__2PRFIN20060811_040855_000000502050_00147_23247_0633.N1	11-AUG-2006 04:08:55	Dark	50.000	14	58Alp Ori	0.87000	3000.0	100	23247	No
40	GOM_NL__2PRFIN20060811_041200_000000382050_00147_23247_0634.N1	11-AUG-2006 04:12:00	Dark	37.500	33	50Zet Ori	1.7660	30000.	75	23247	No
41	GOM_NL__2PRFIN20060811_041440_000000332050_00147_23247_0635.N1	11-AUG-2006 04:14:40	Dark	33.000	1	9Alp CMa	-1.4400	11000.	66	23247	No
42	GOM_NL__2PRFIN20060811_041642_000000382050_00147_23247_0636.N1	11-AUG-2006 04:16:42	Dark	38.000	101	11Alp Lep	2.5820	7000.0	76	23247	No

3. Quality information per product

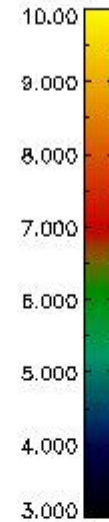
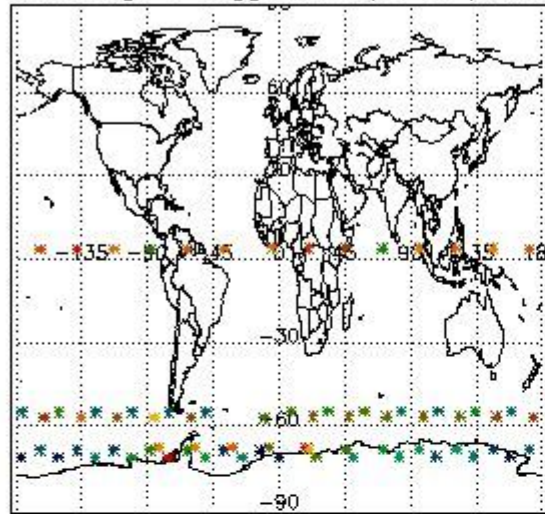
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

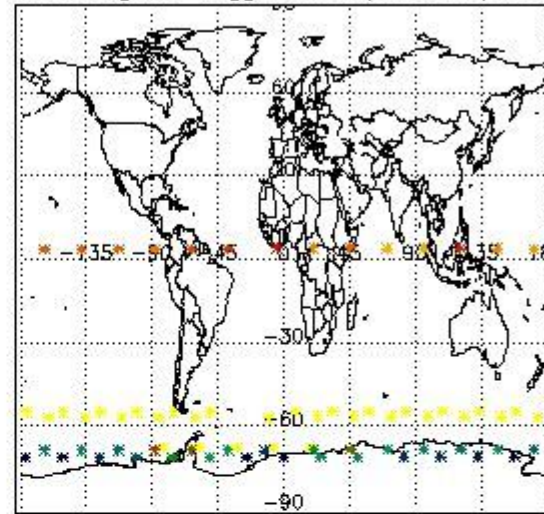


3.2 Plot quality information per product (world map)

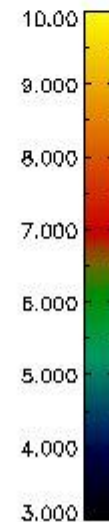
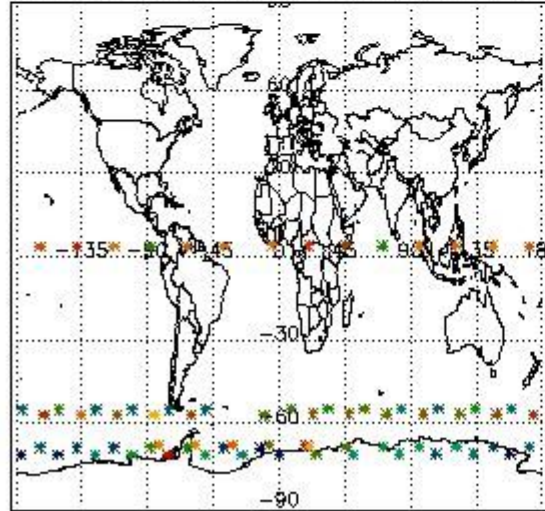
Percentage of flagged data per O3 profile



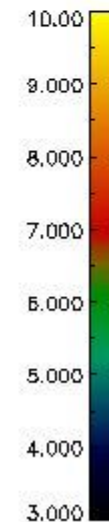
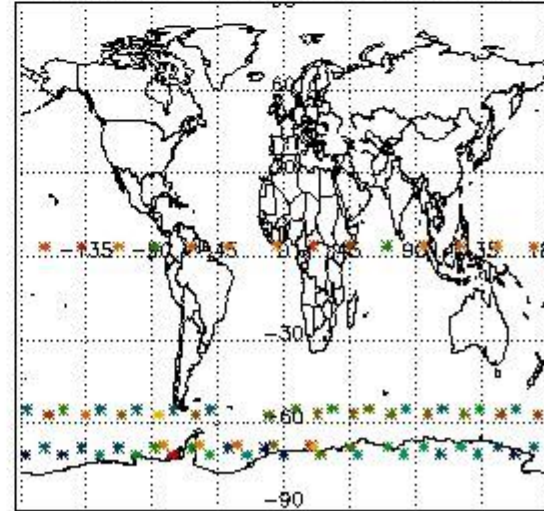
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

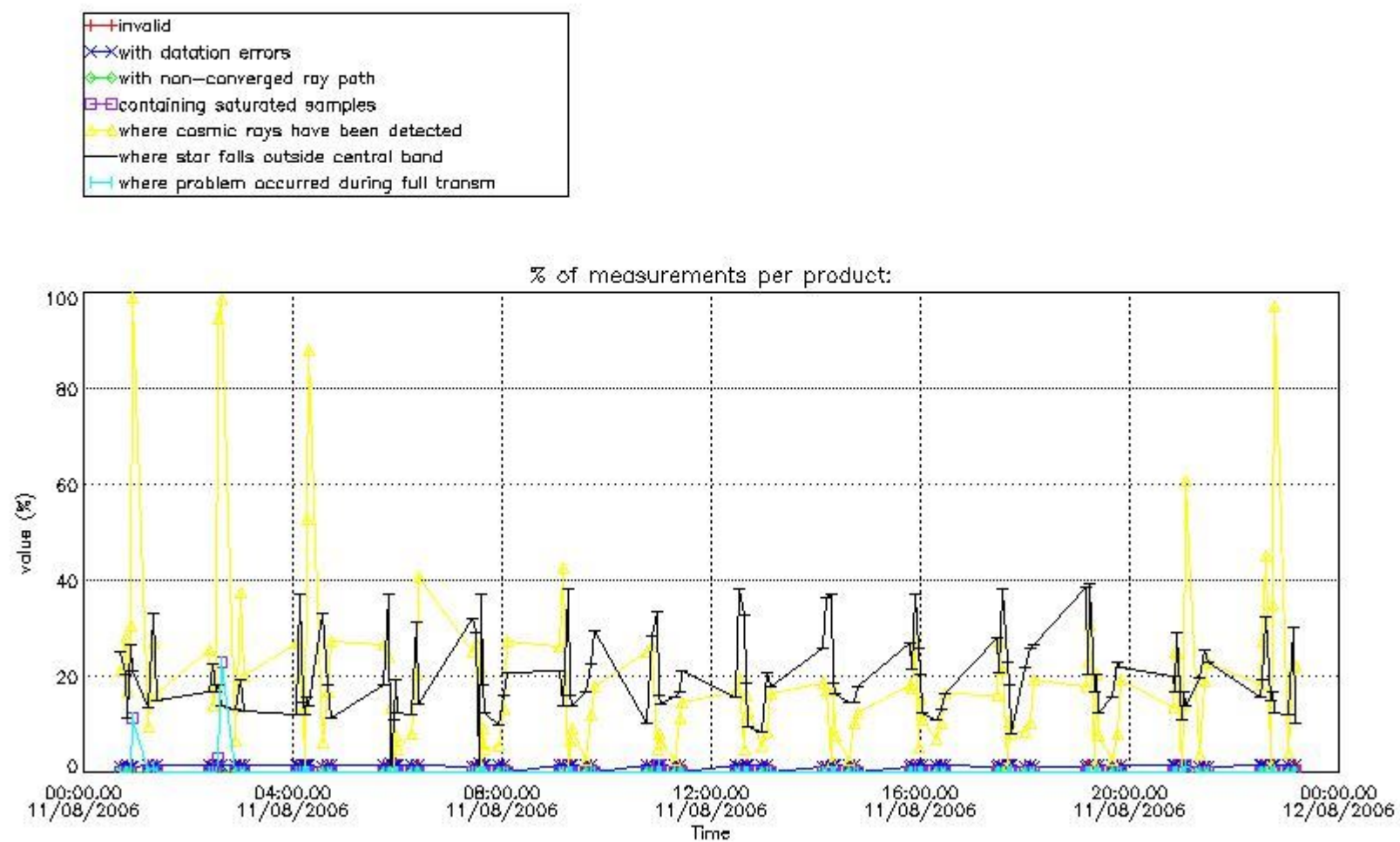


4. Level 1 quality information per product

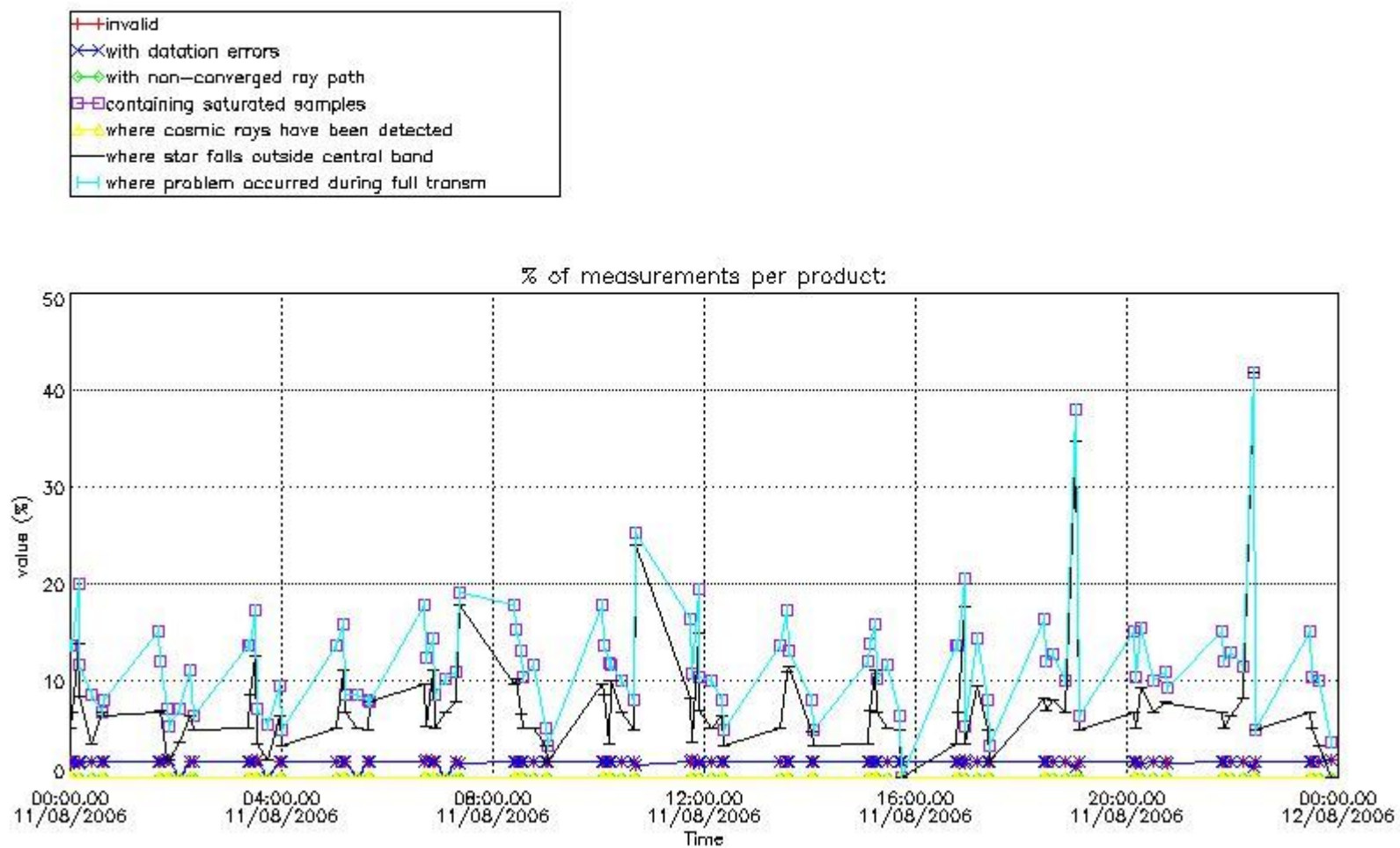
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

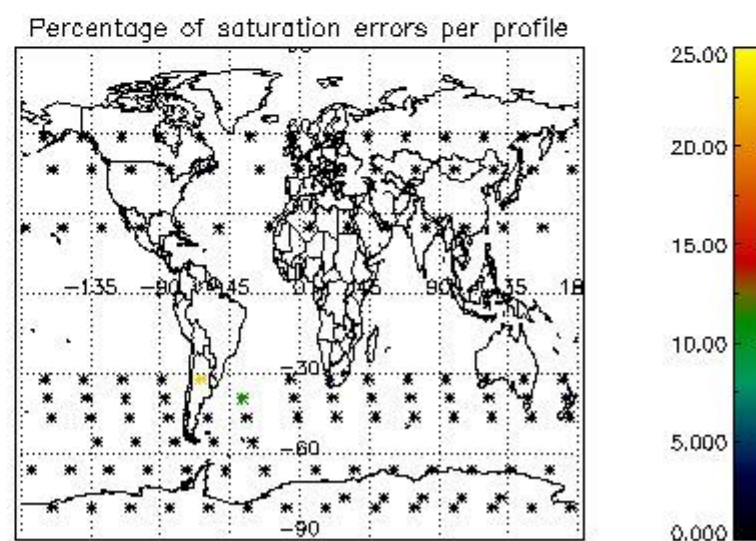
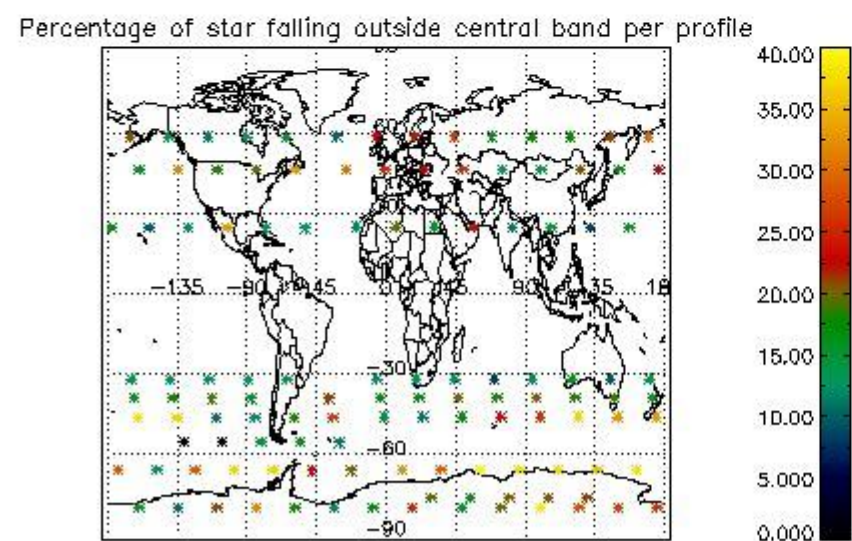
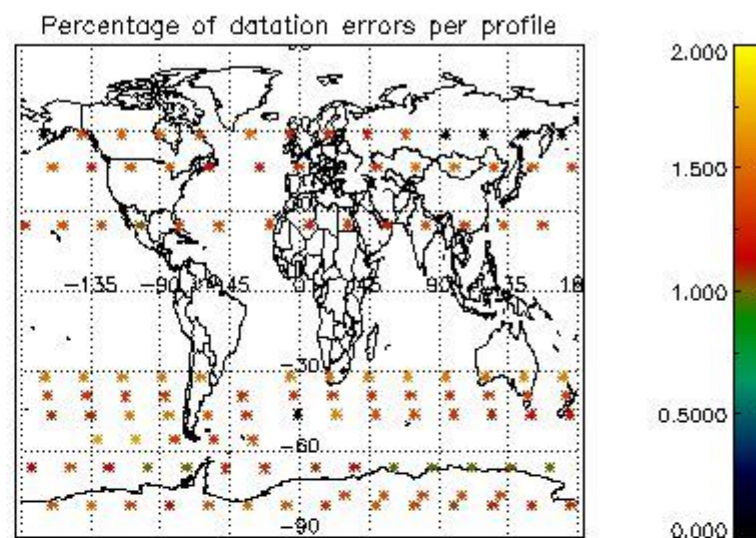
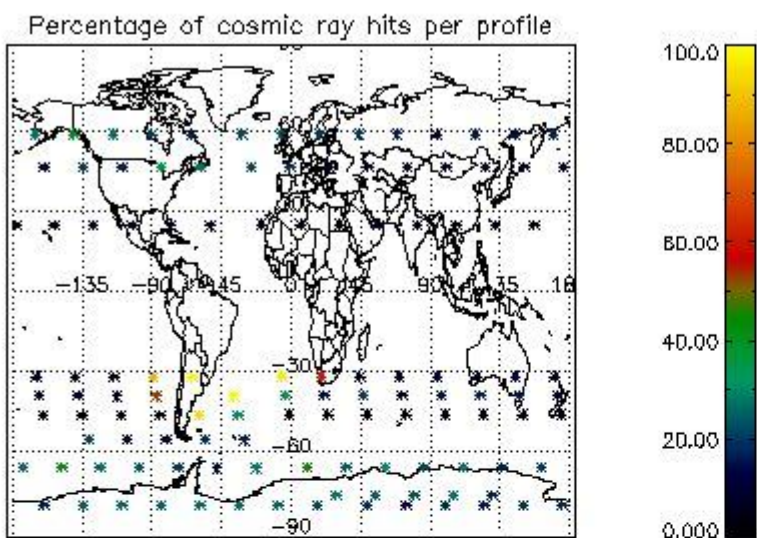


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

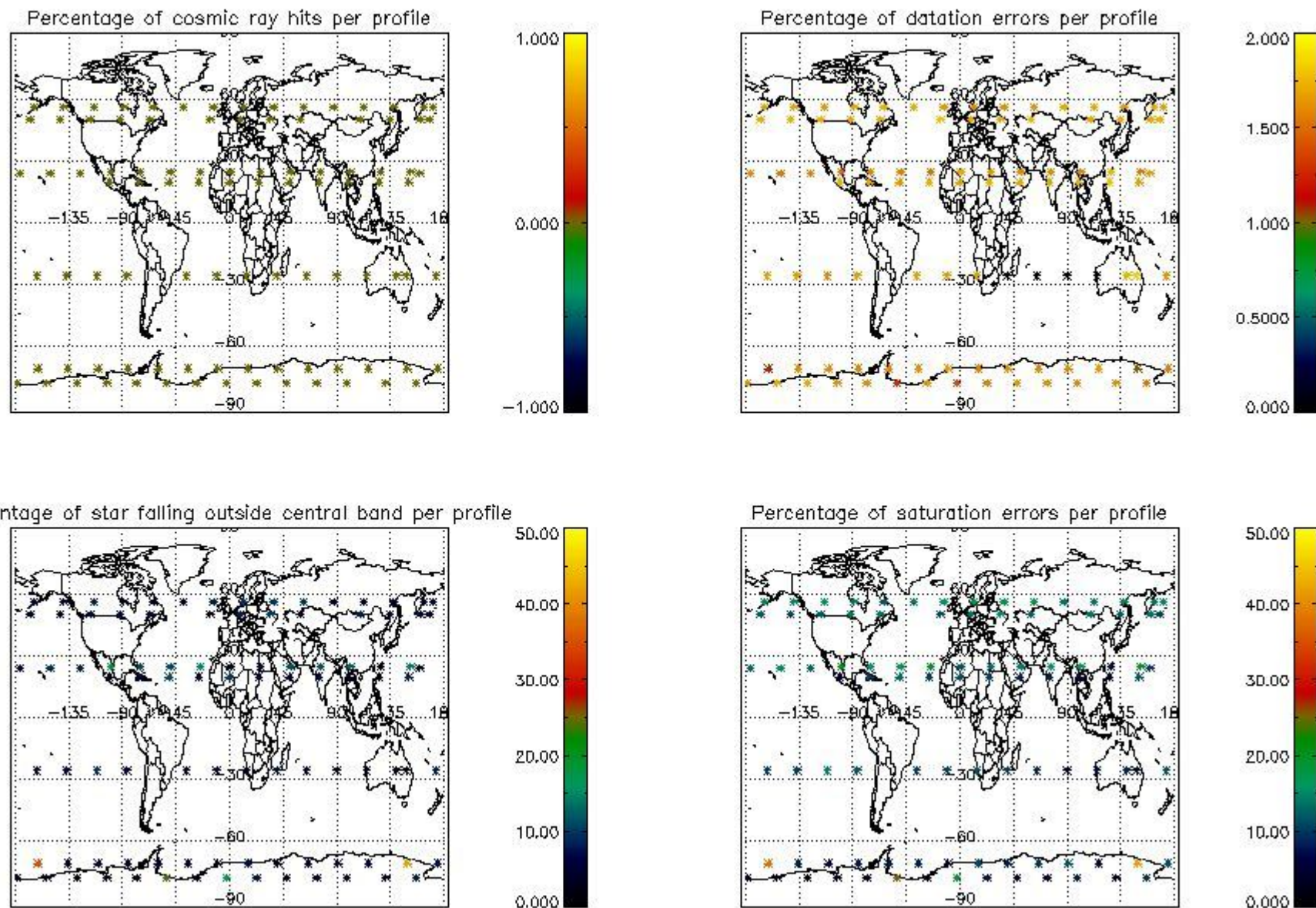


4.2 Plot quality information per product coming from level 1b processing (world map)

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

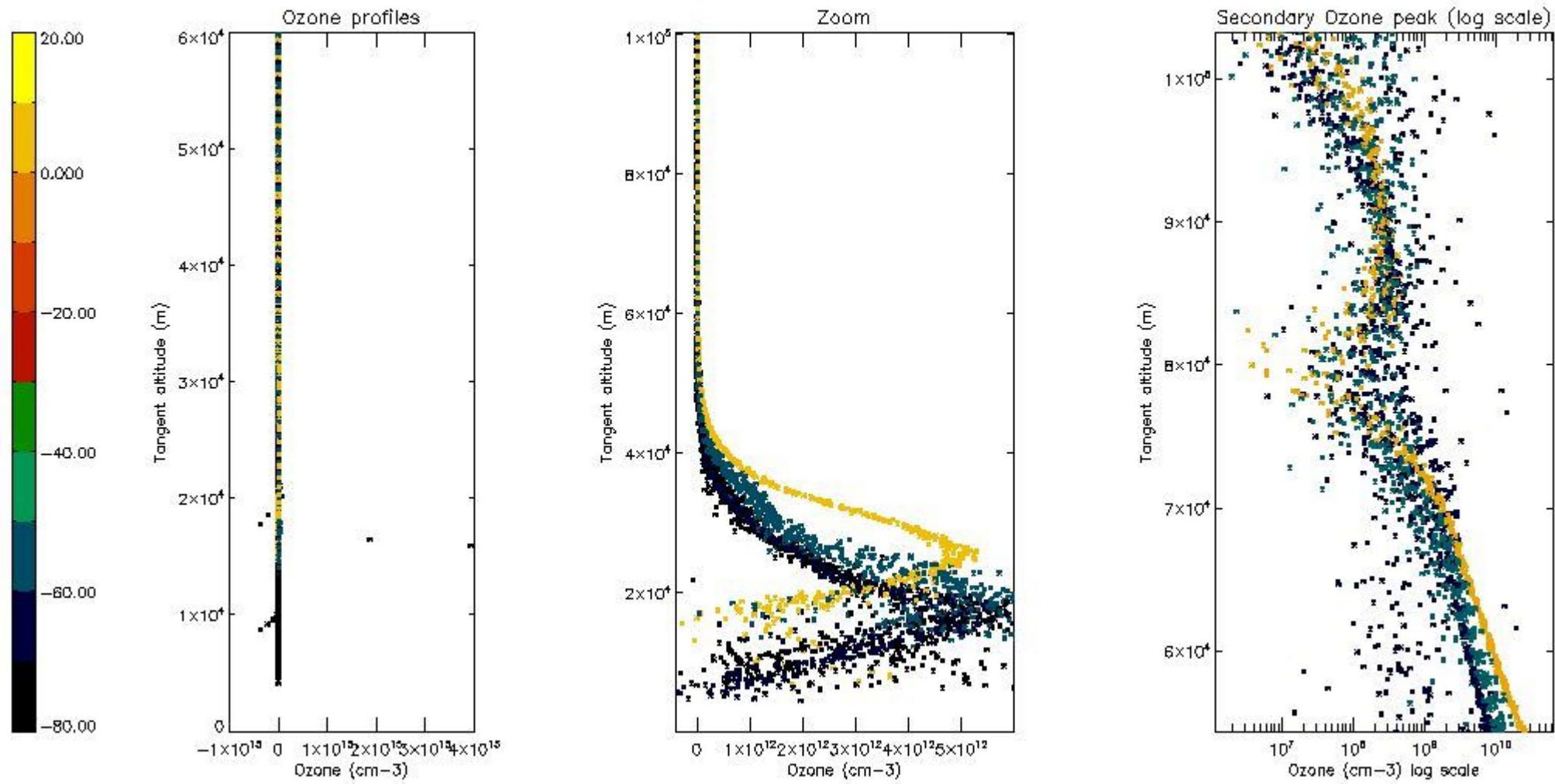
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	23

STD < 10	19
STD < 5	14

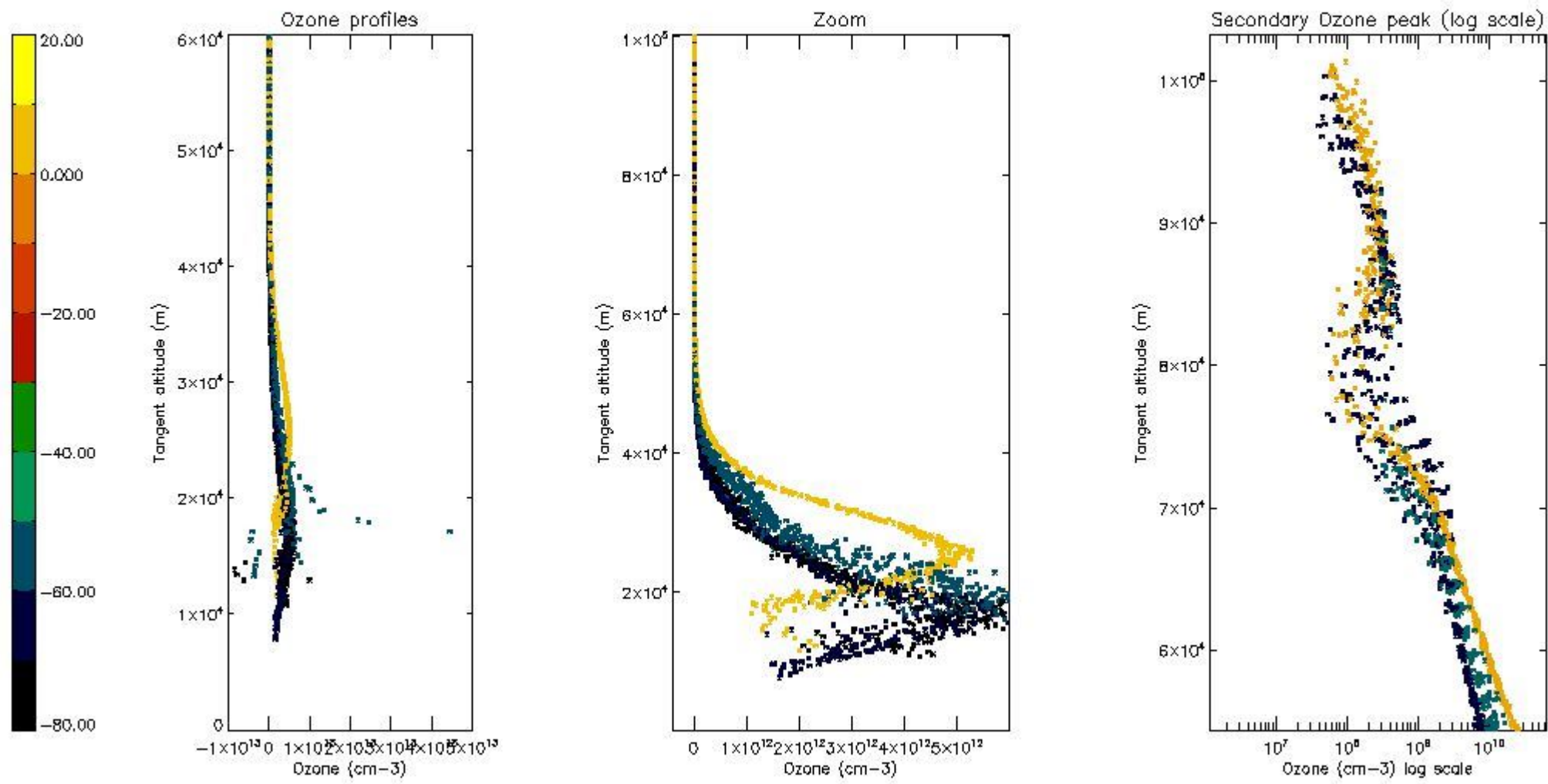
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



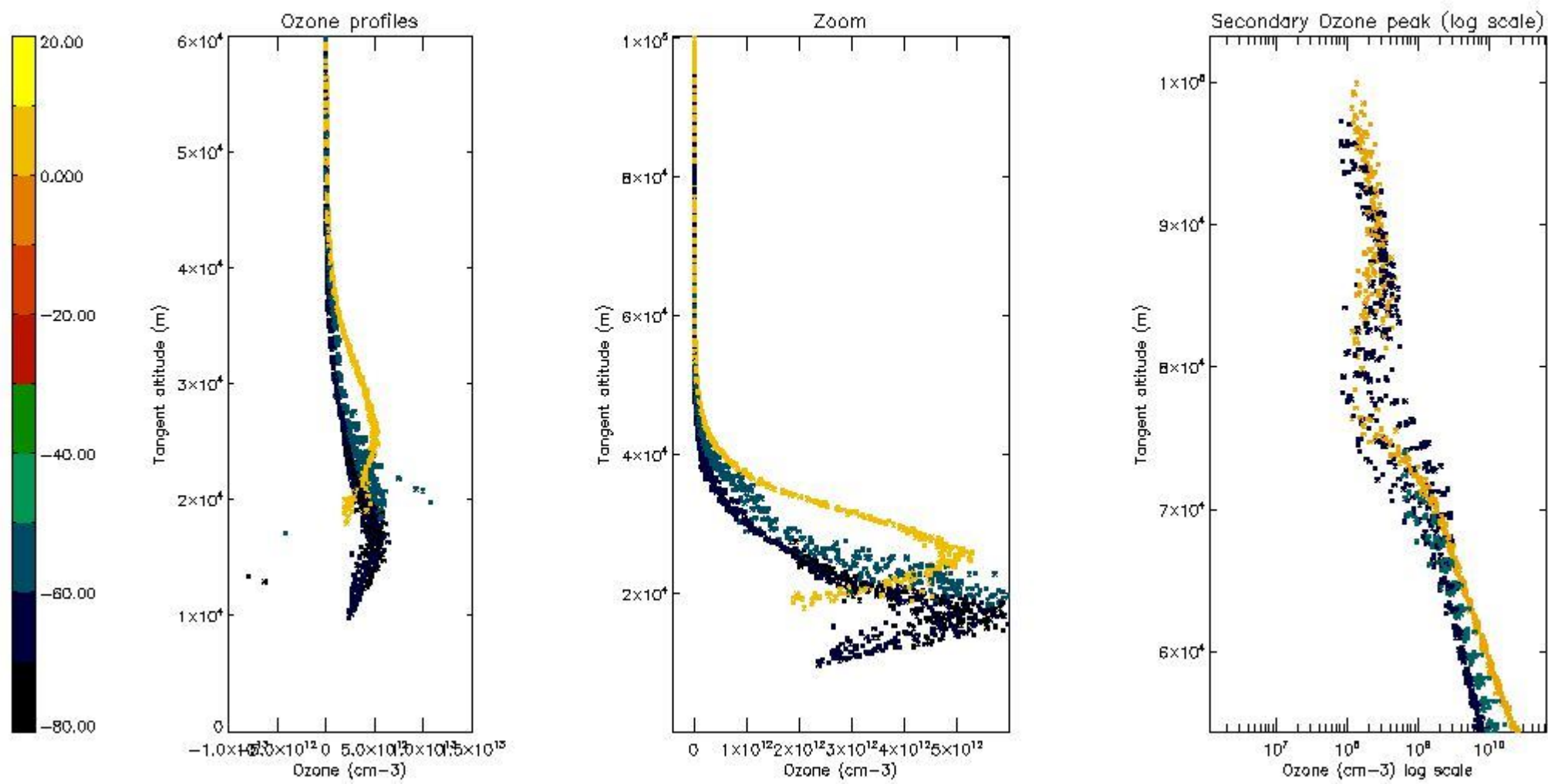
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



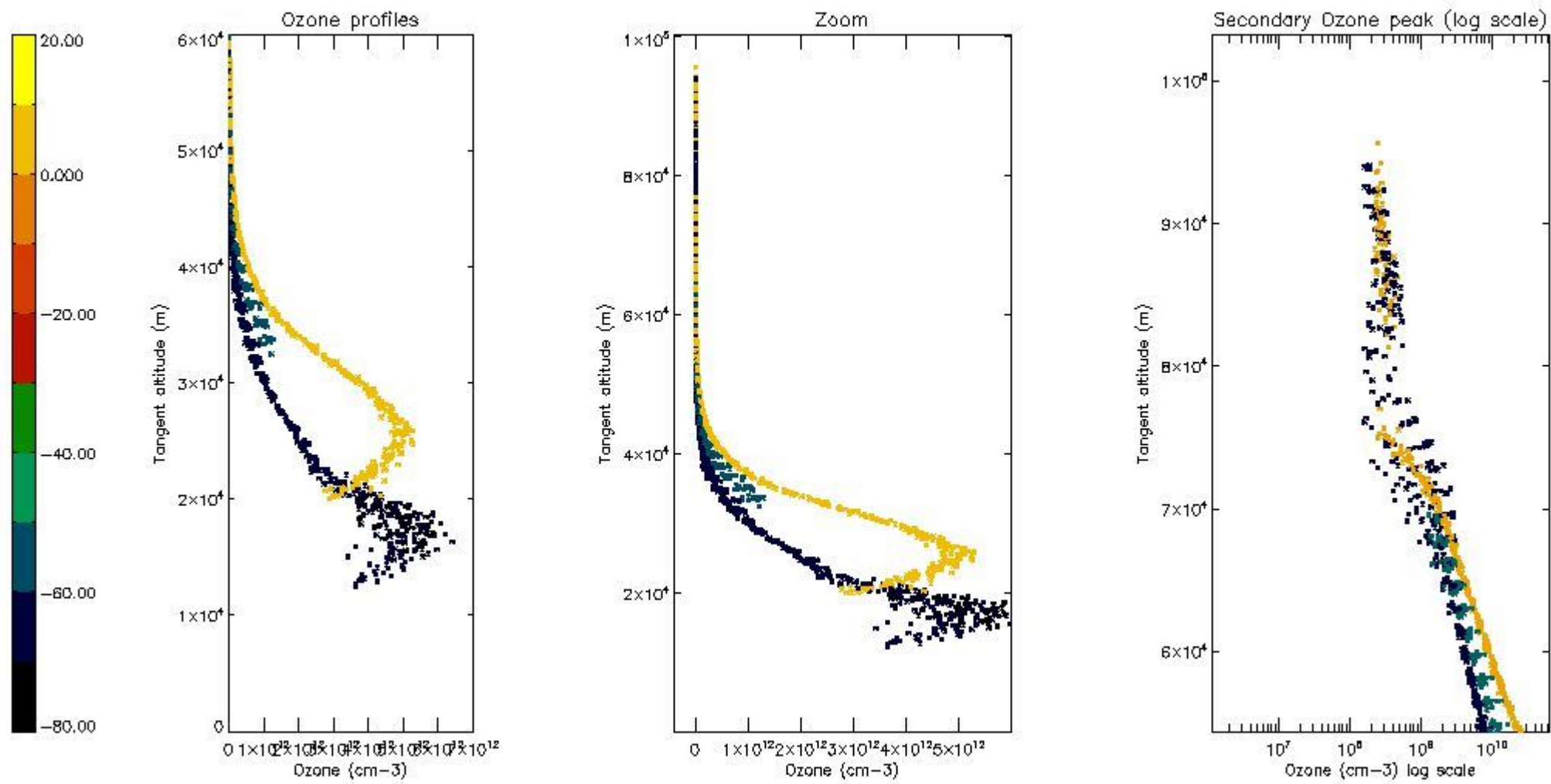
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



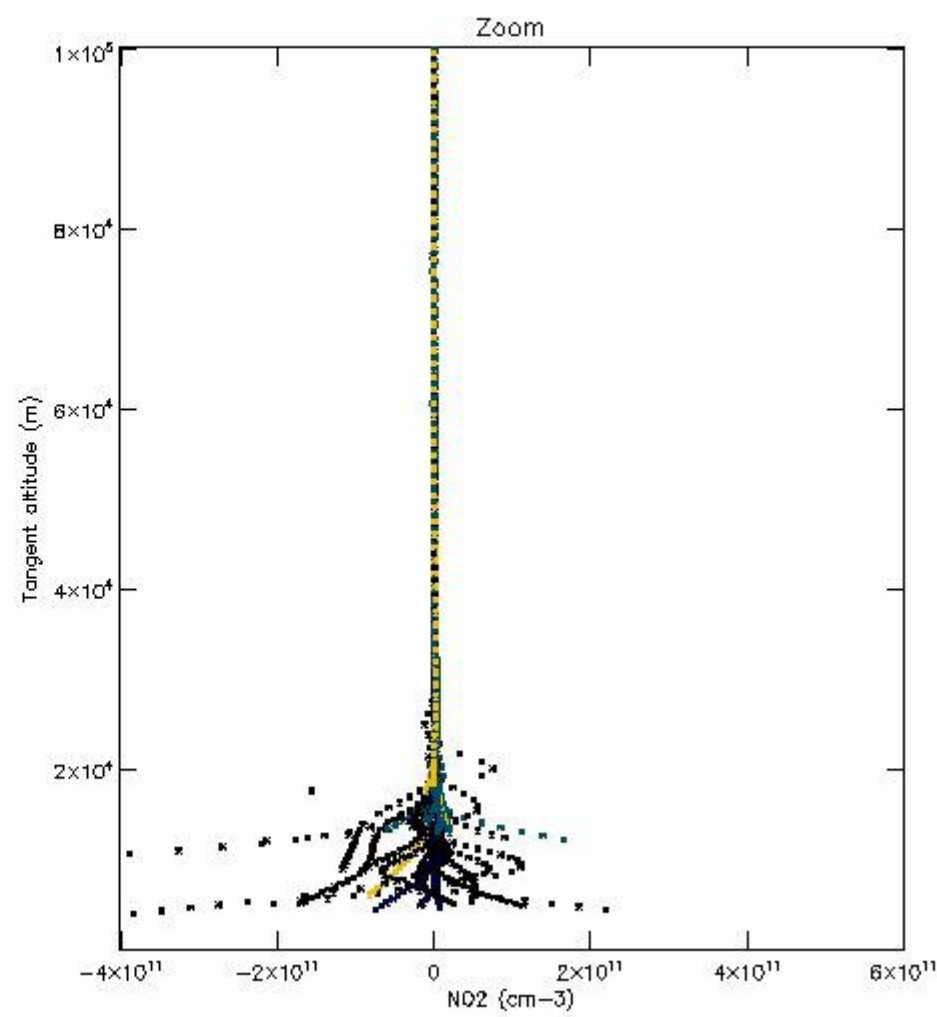
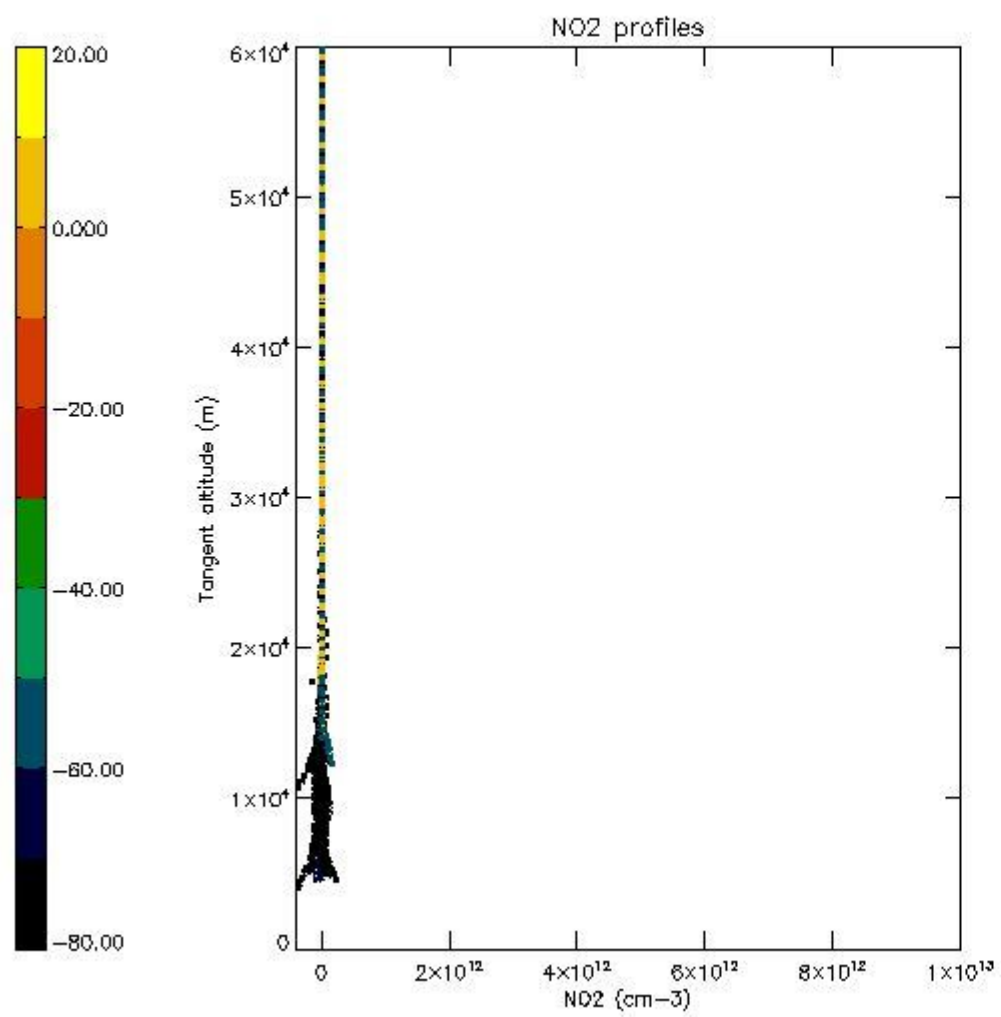
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



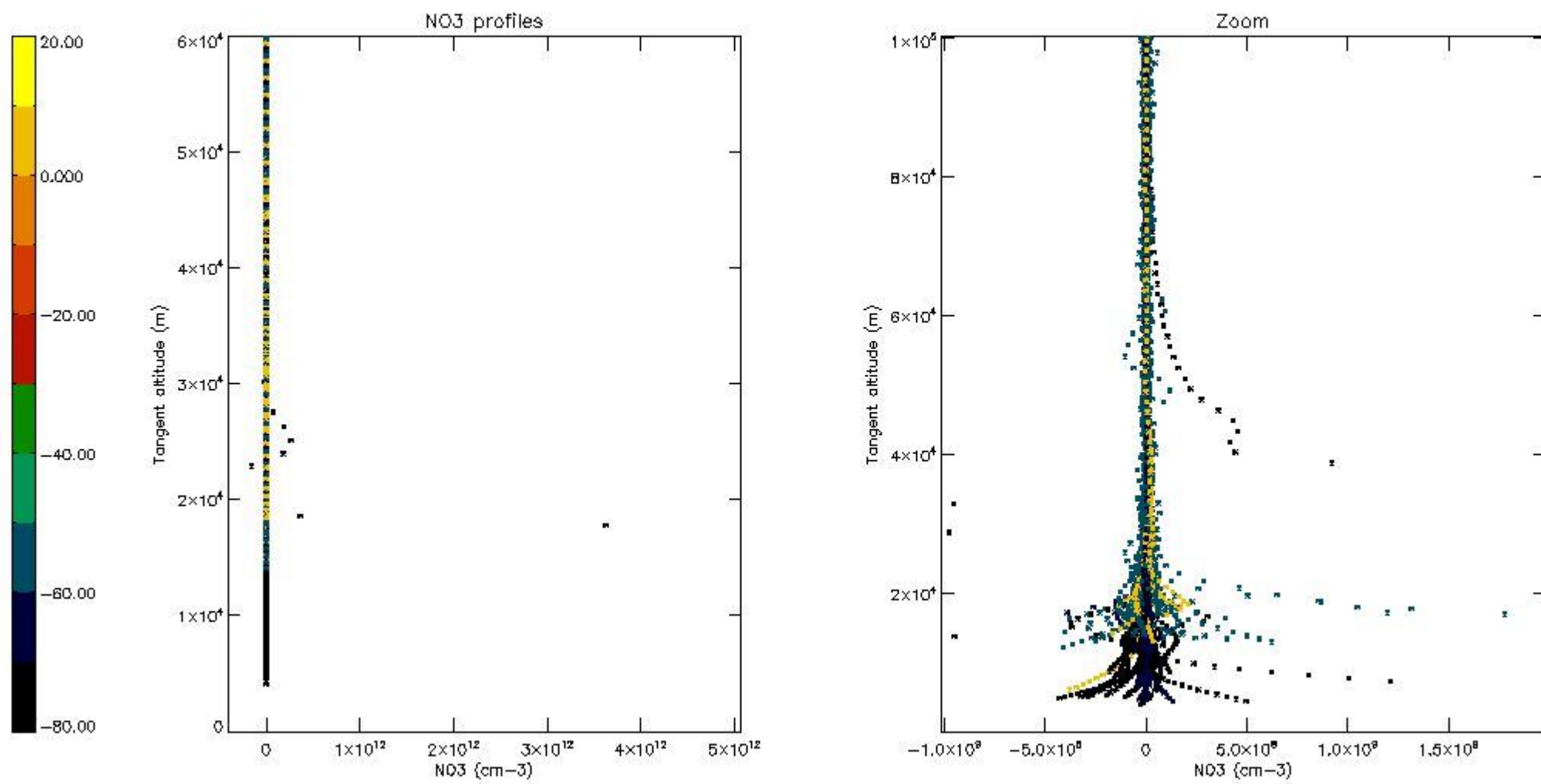
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



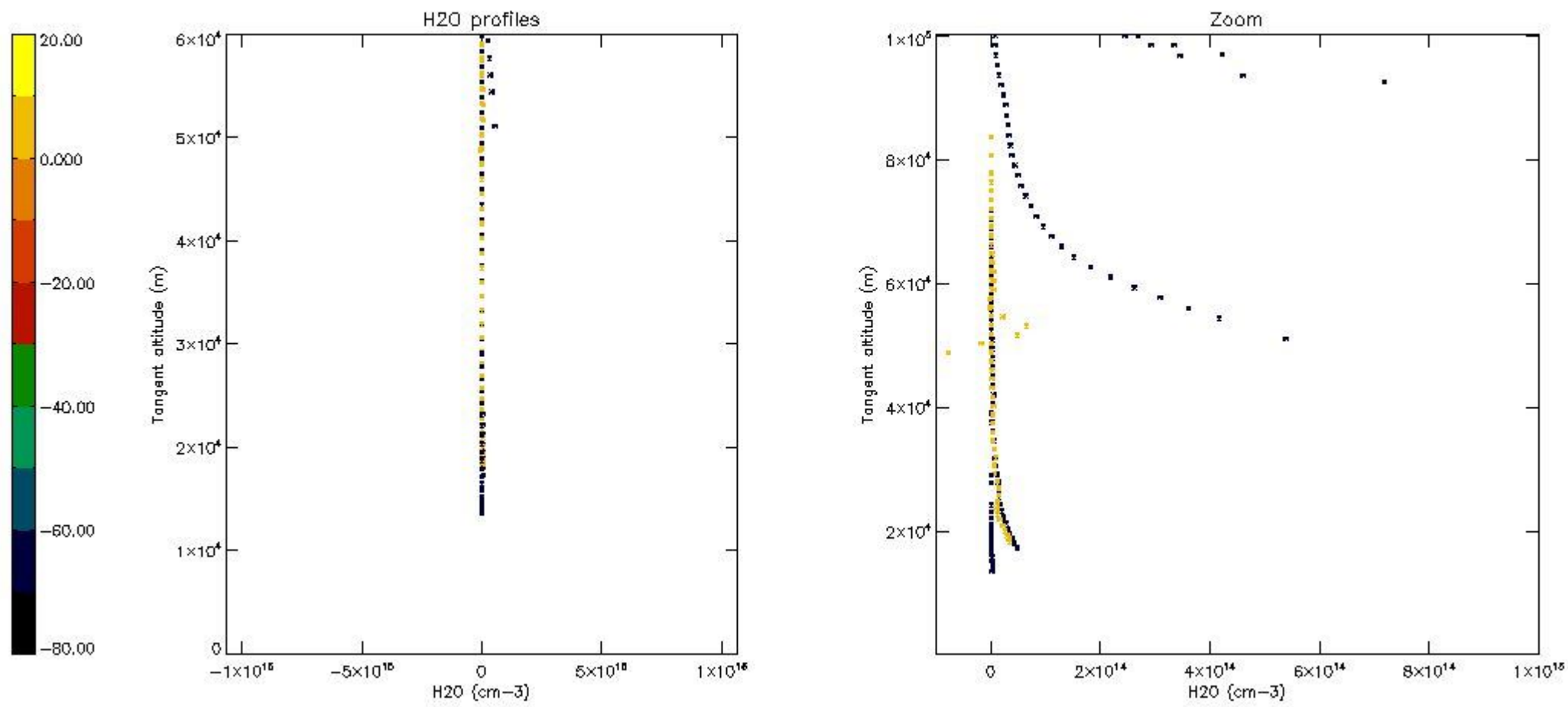
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

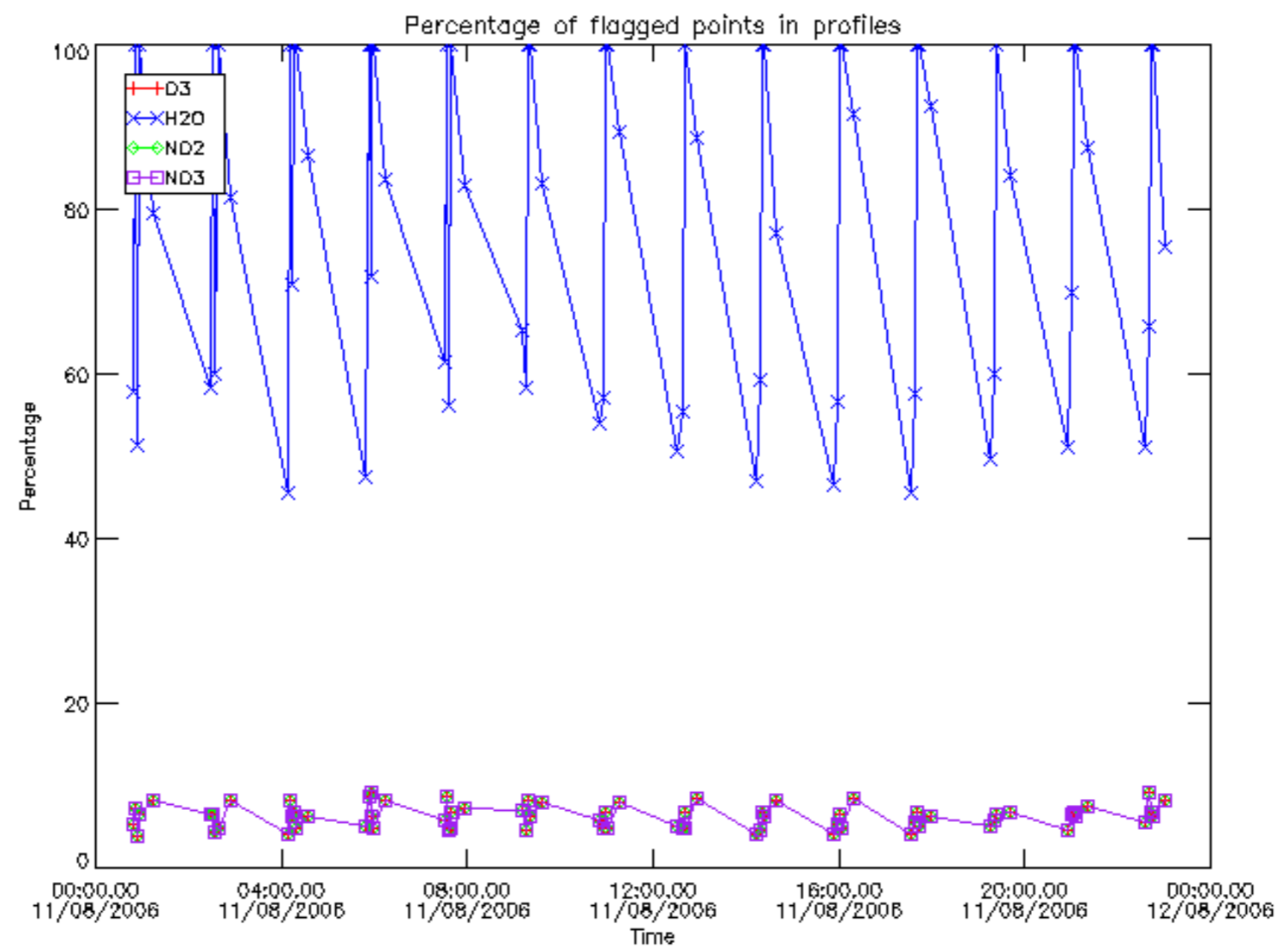
The colorbar represents the latitude.



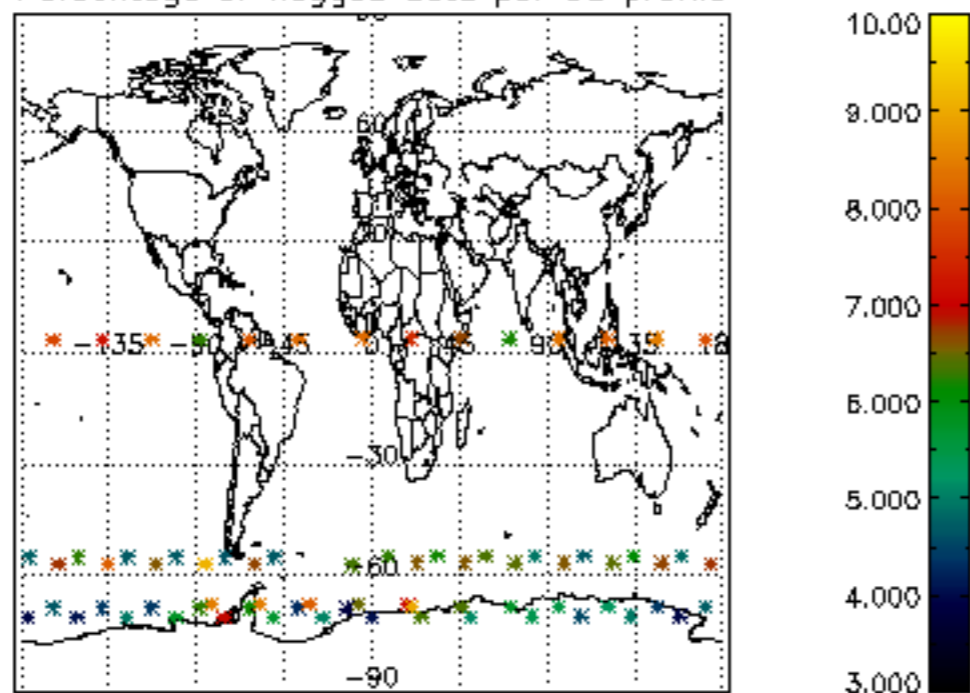
6. Auxiliary Data Files used for the production reported in section 2

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.

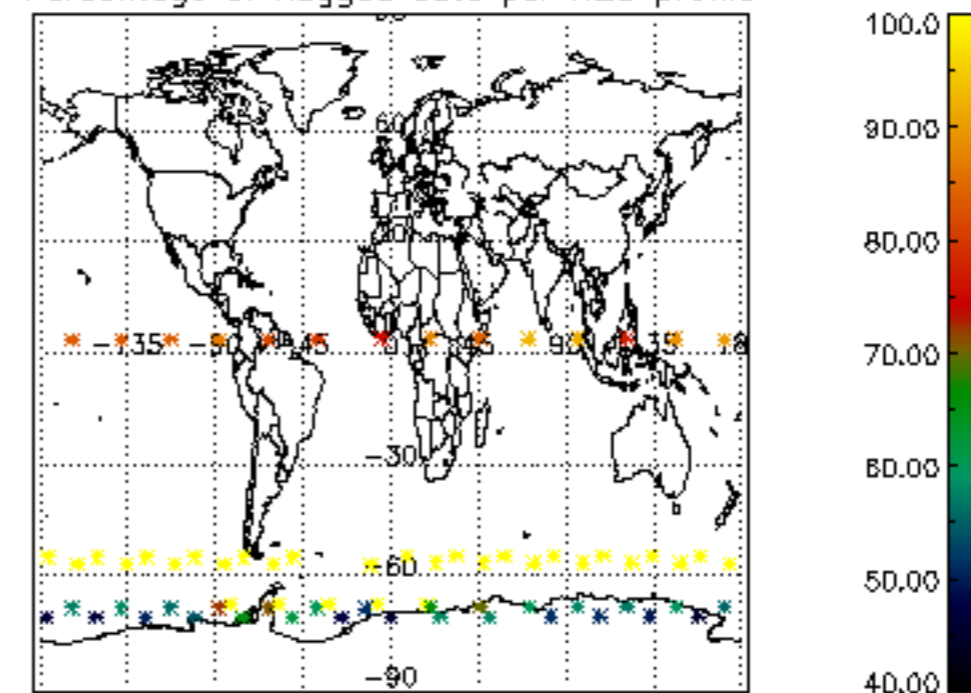
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	11-AUG-2006 00:00:19
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	11-AUG-2006 00:00:19
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	11-AUG-2006 00:00:19



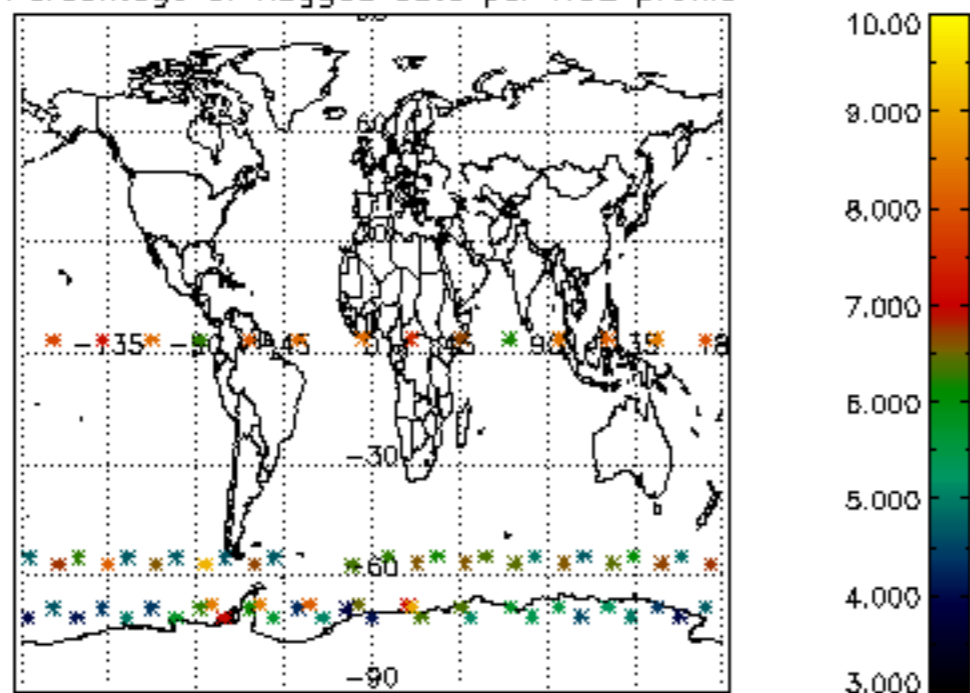
Percentage of flagged data per D3 profile



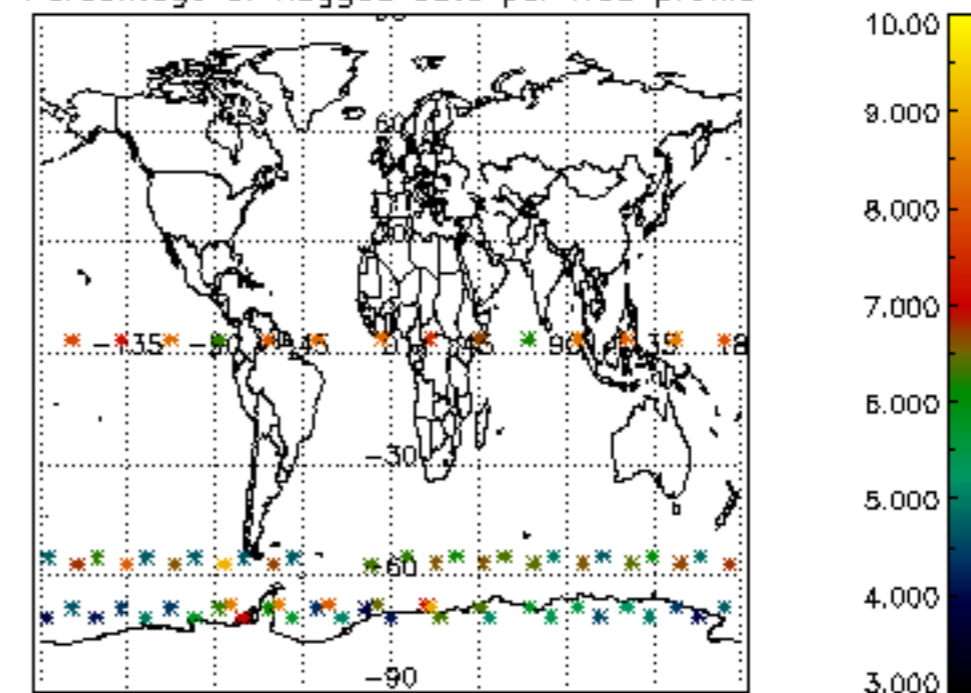
Percentage of flagged data per H2O profile

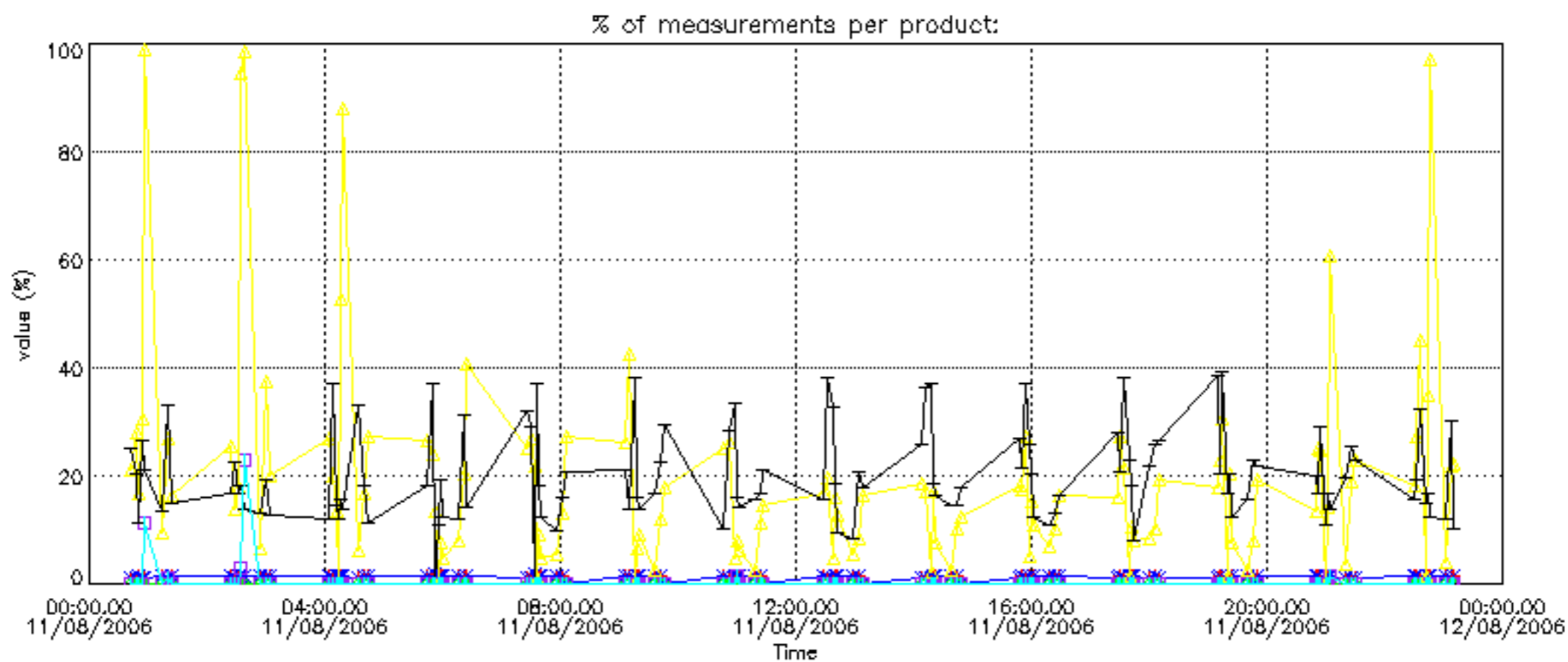


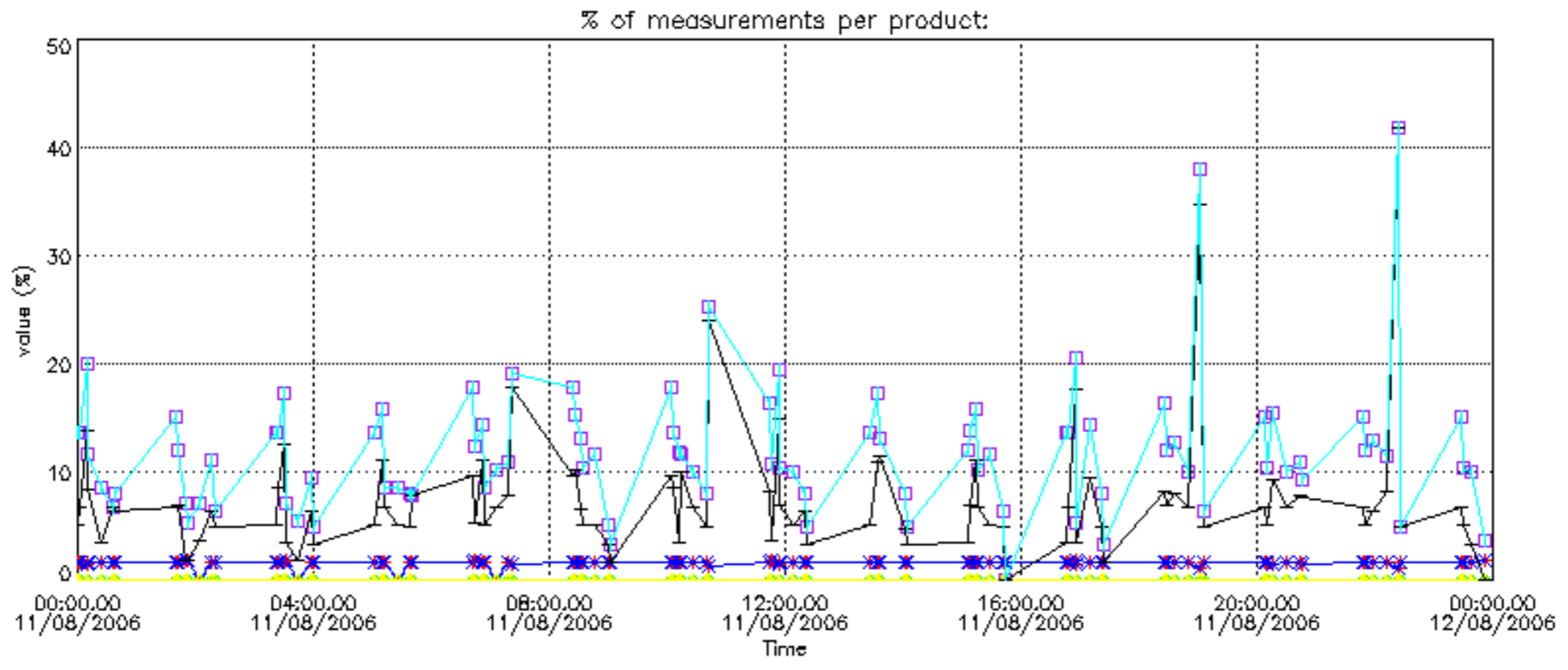
Percentage of flagged data per NO2 profile



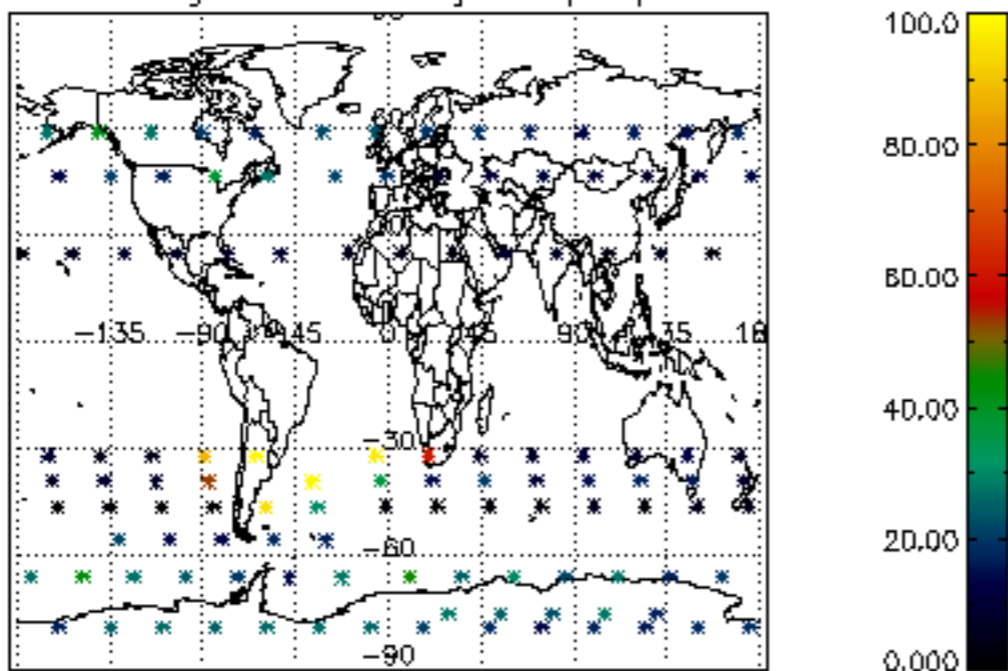
Percentage of flagged data per NO3 profile



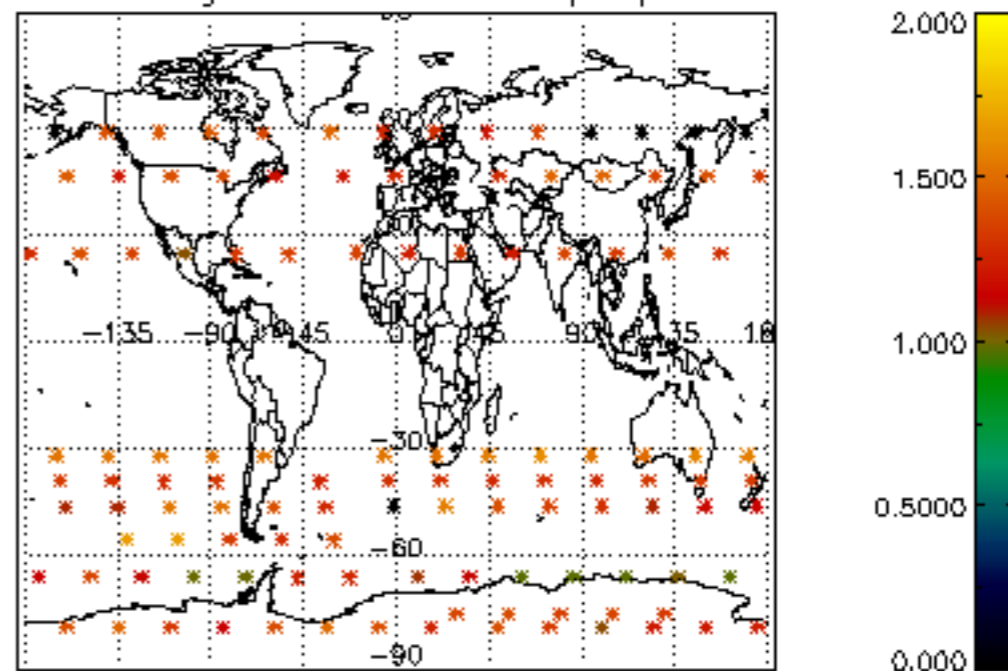




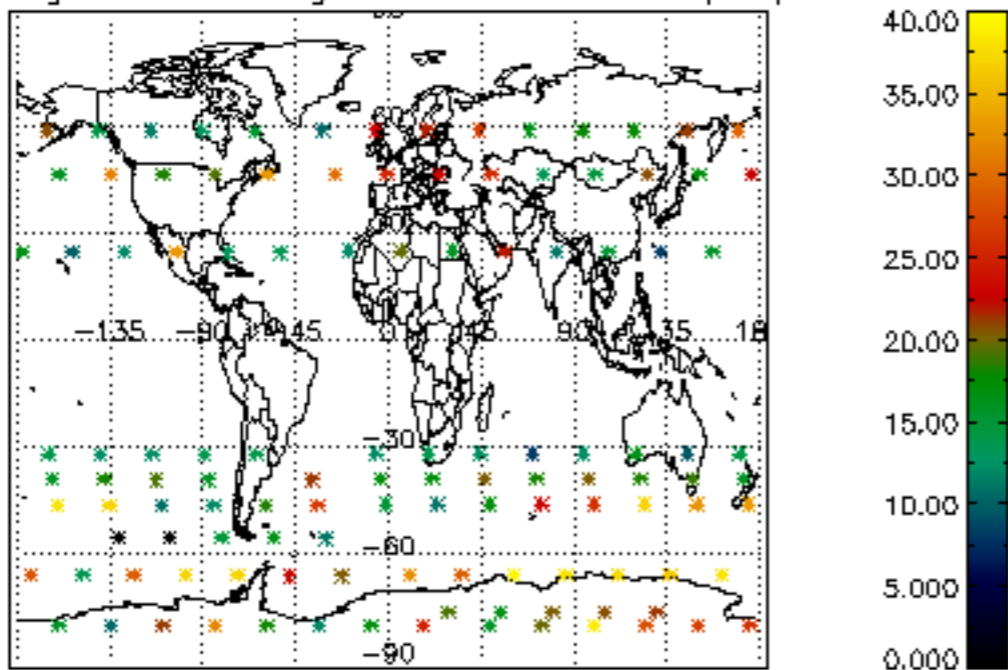
Percentage of cosmic ray hits per profile



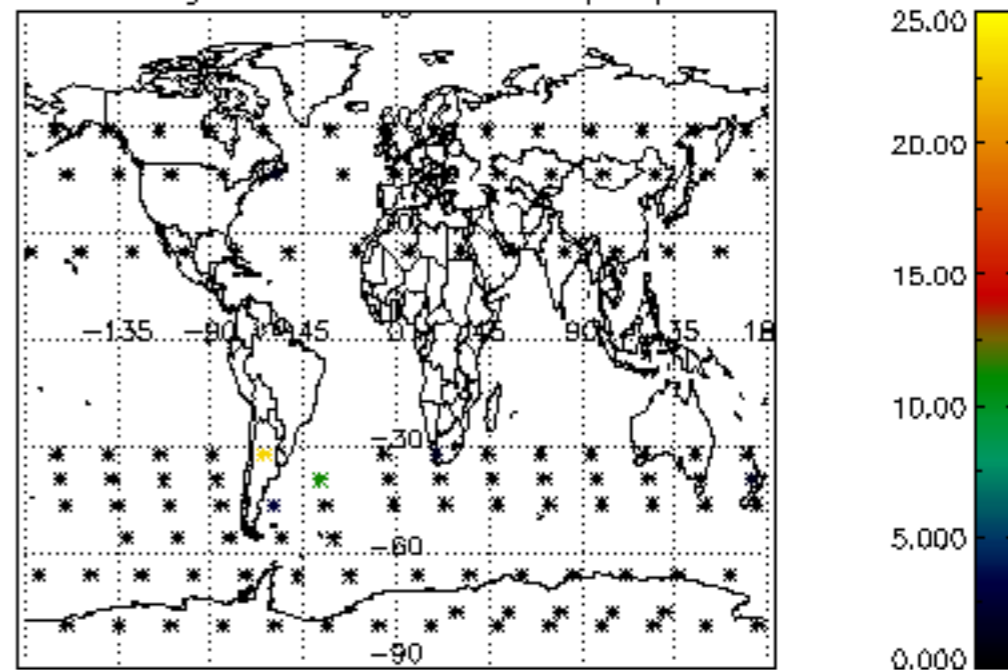
Percentage of datation errors per profile



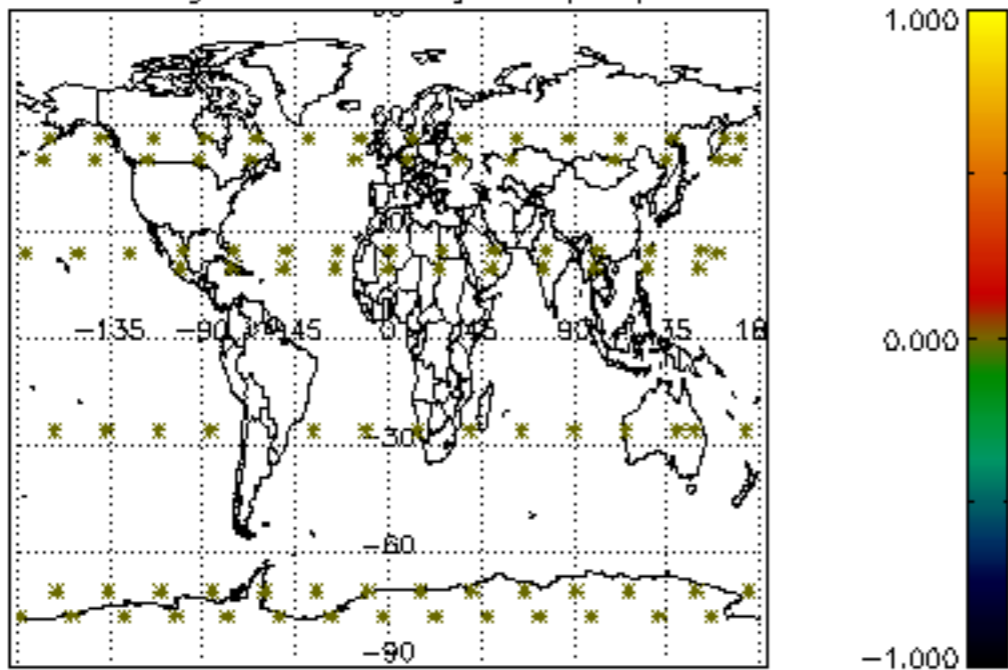
Percentage of star falling outside central band per profile



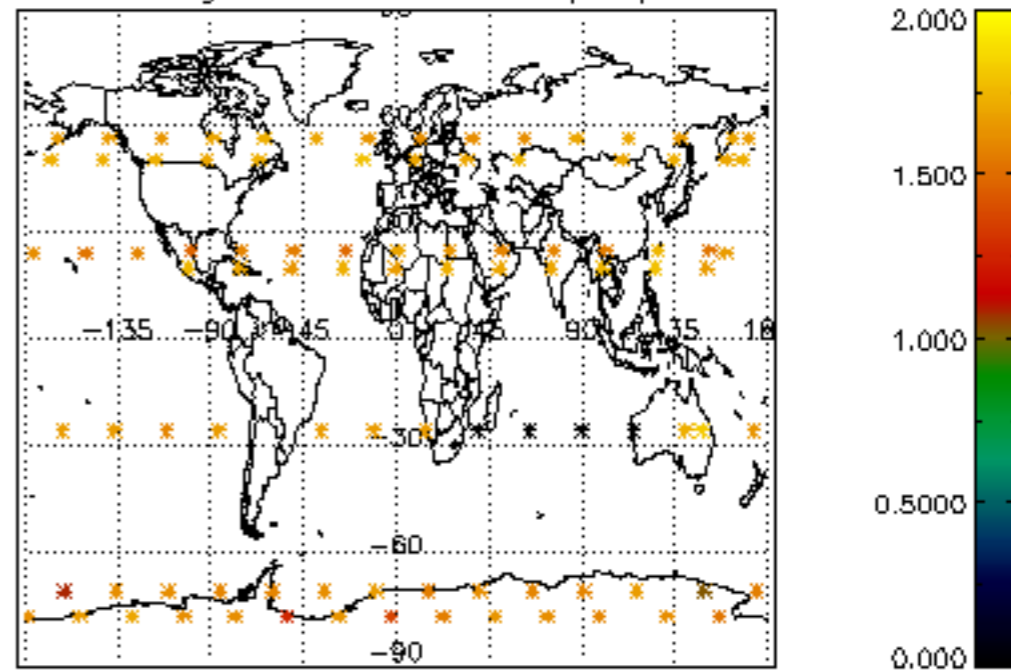
Percentage of saturation errors per profile



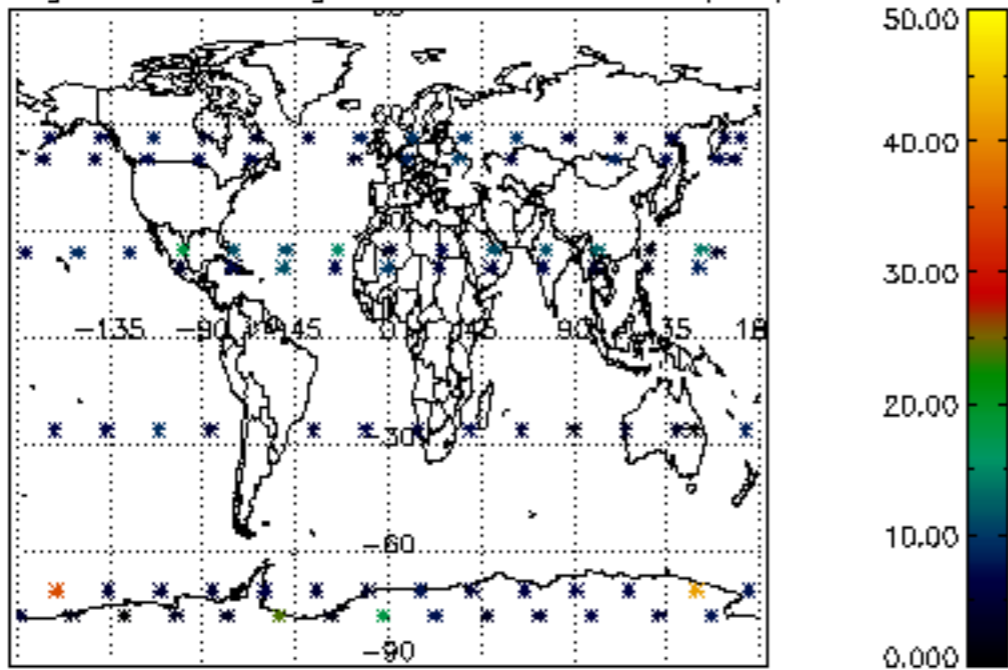
Percentage of cosmic ray hits per profile



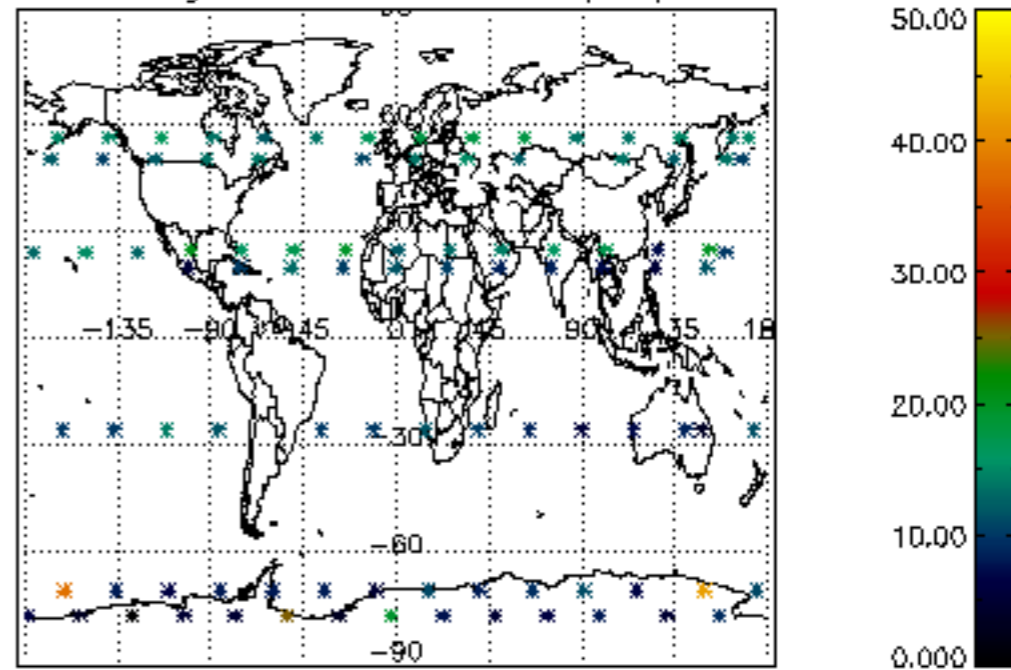
Percentage of datation errors per profile

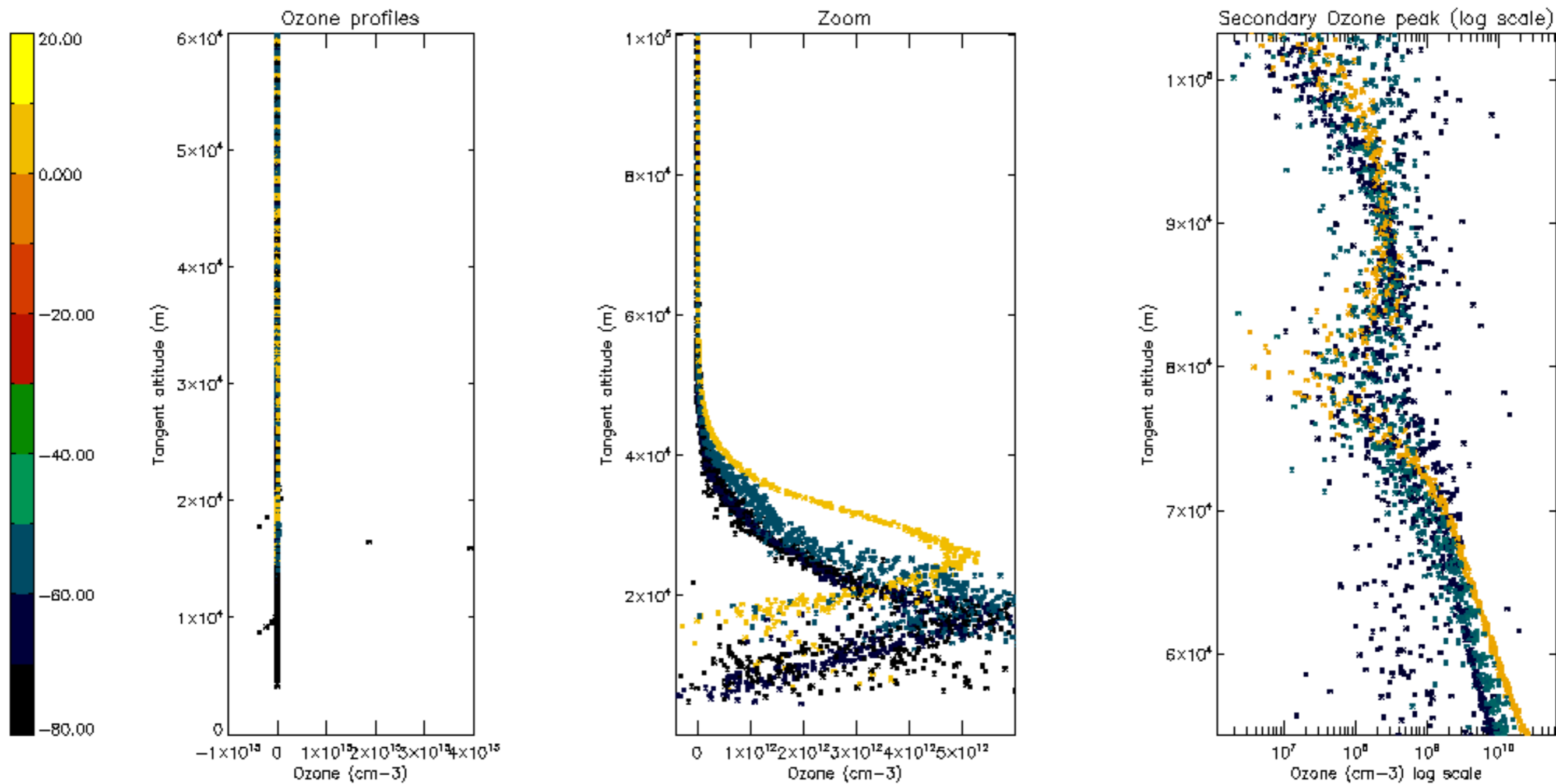


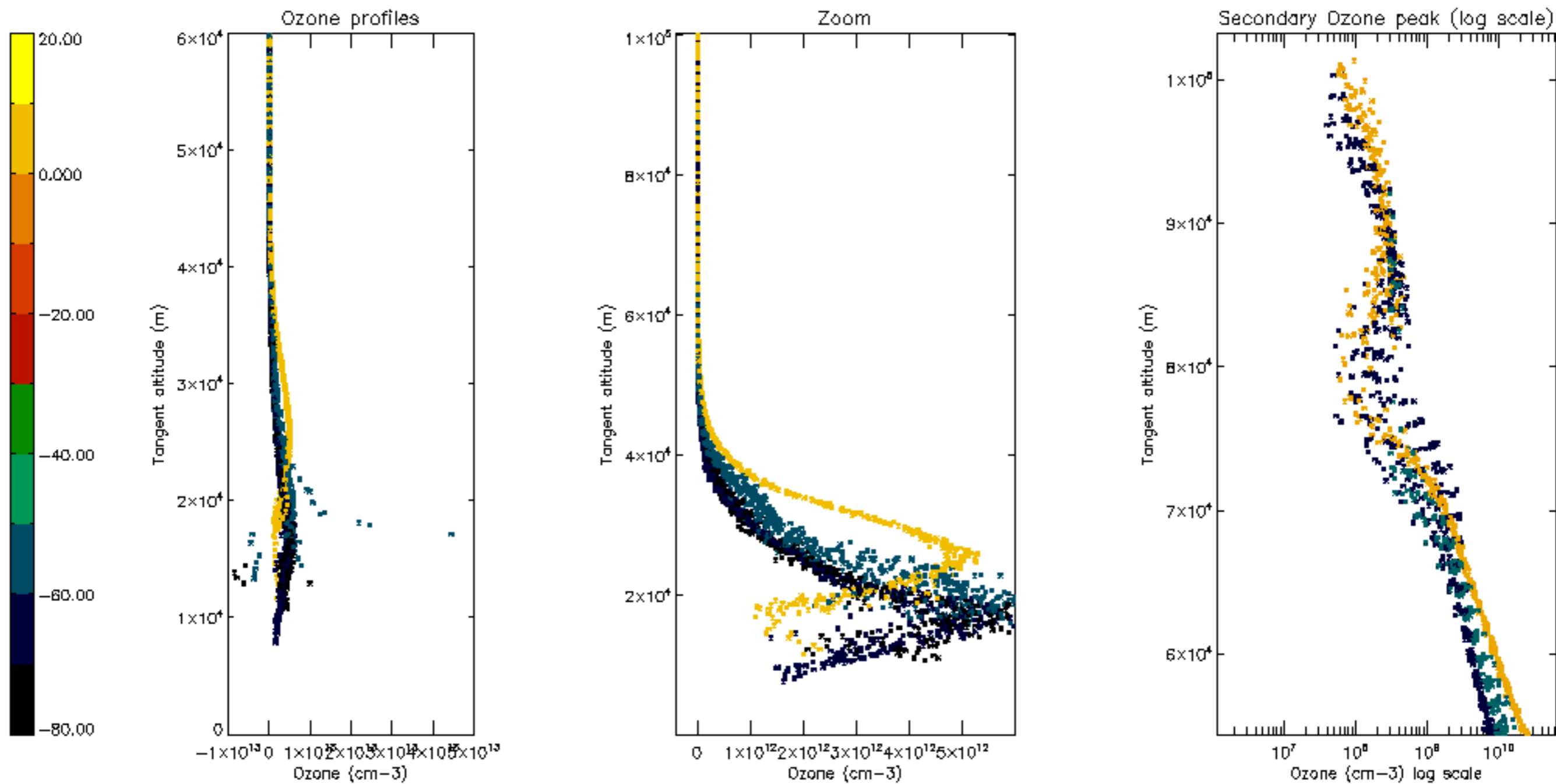
Percentage of star falling outside central band per profile

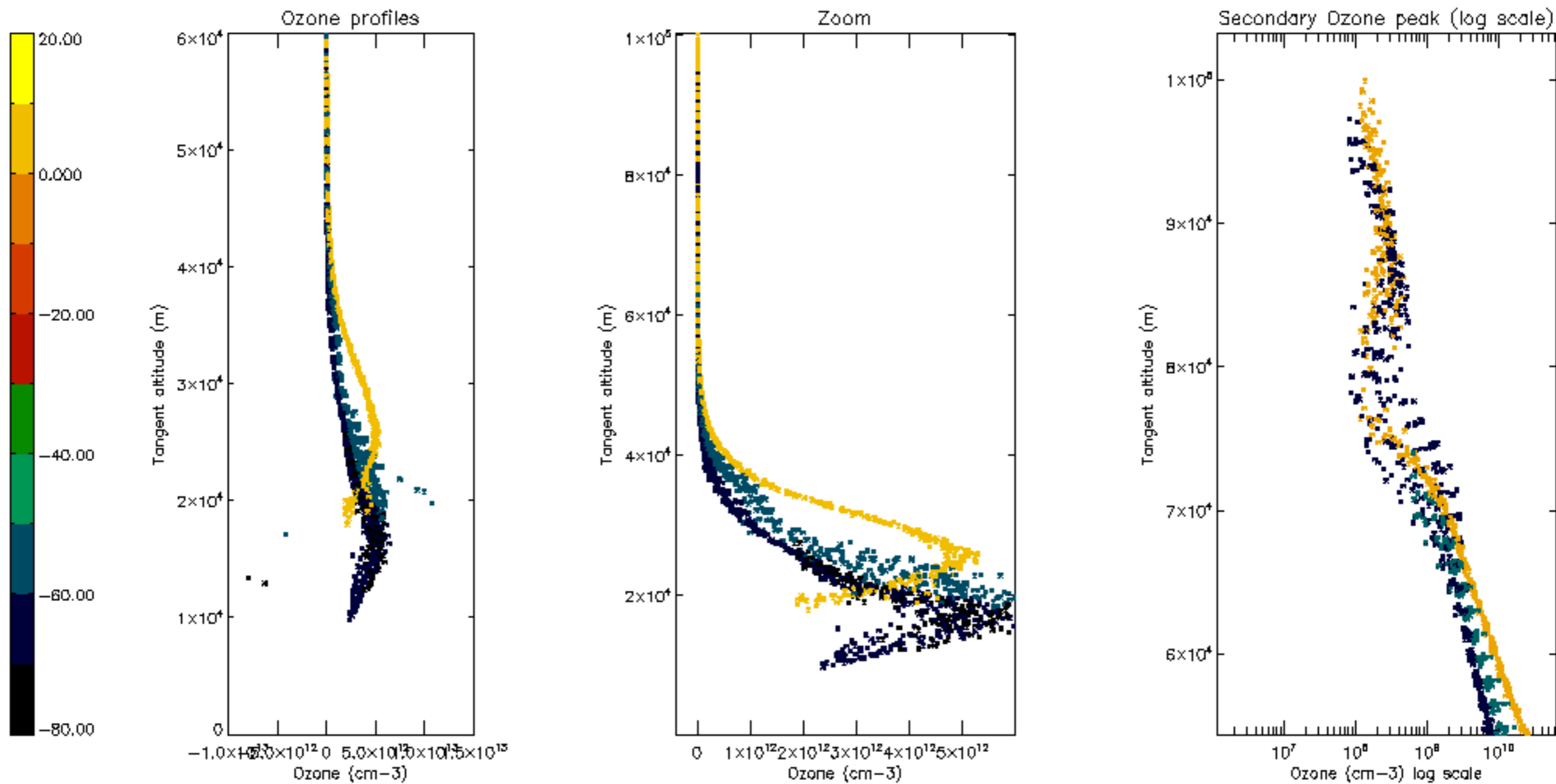


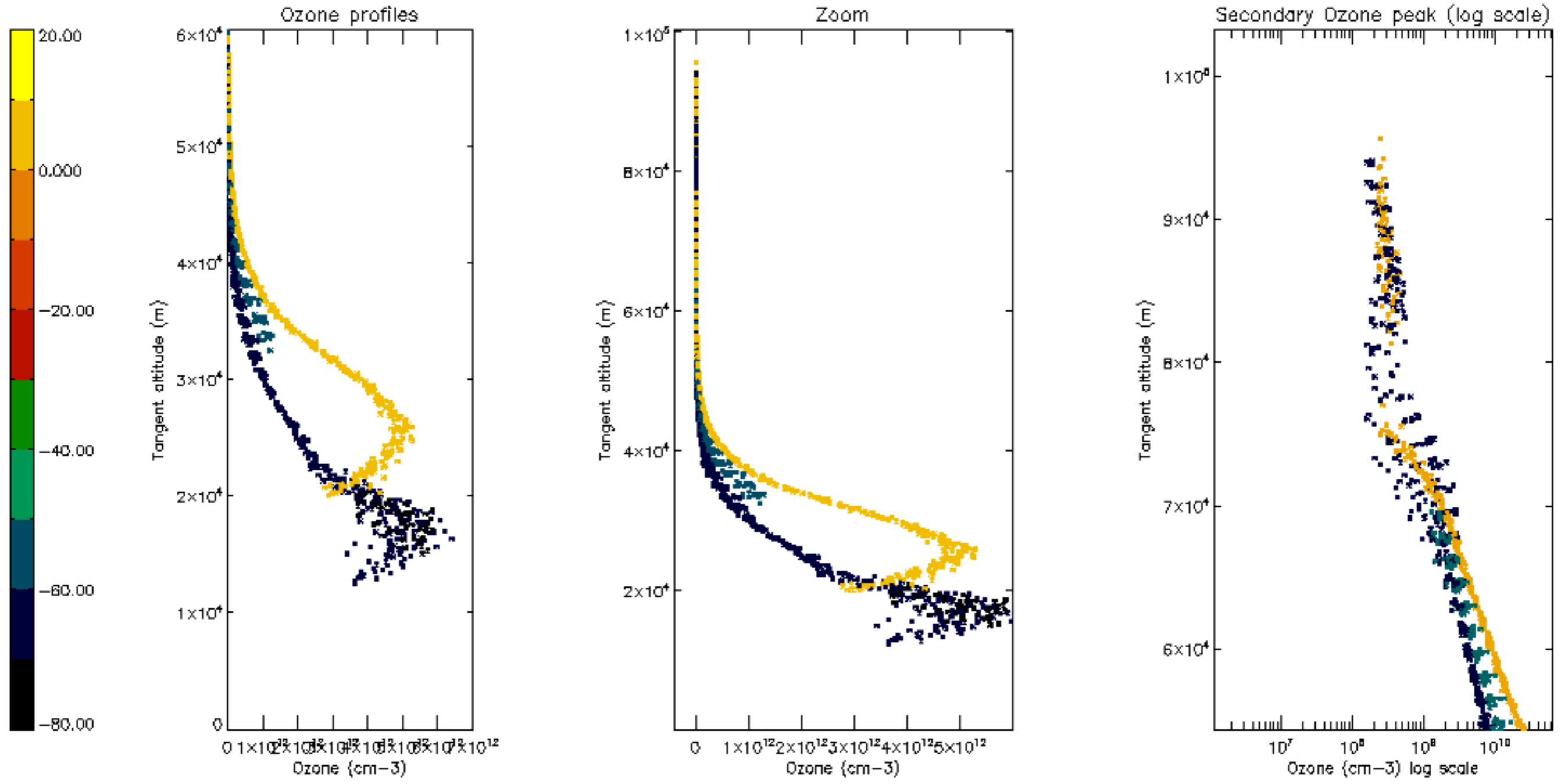
Percentage of saturation errors per profile

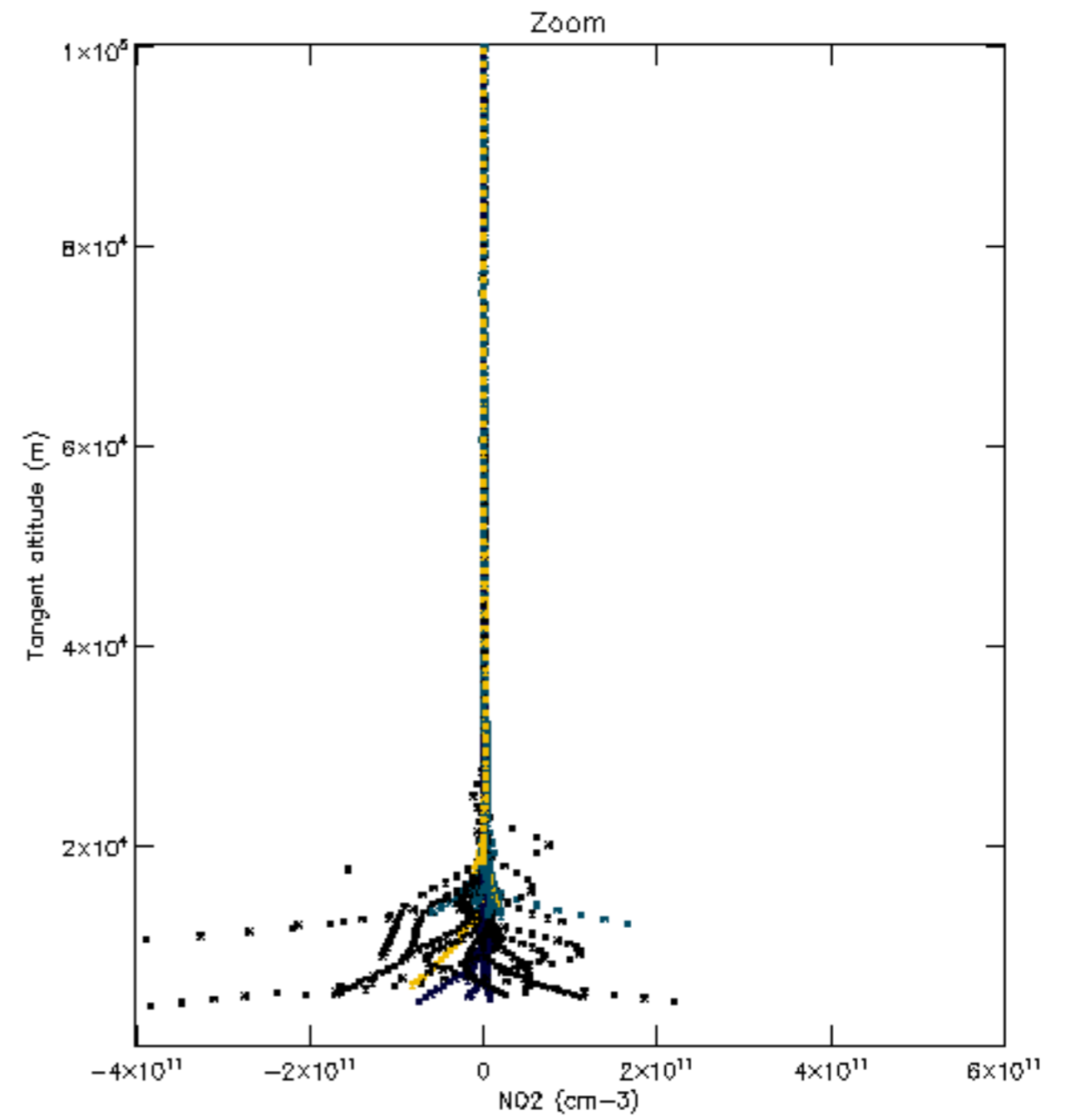
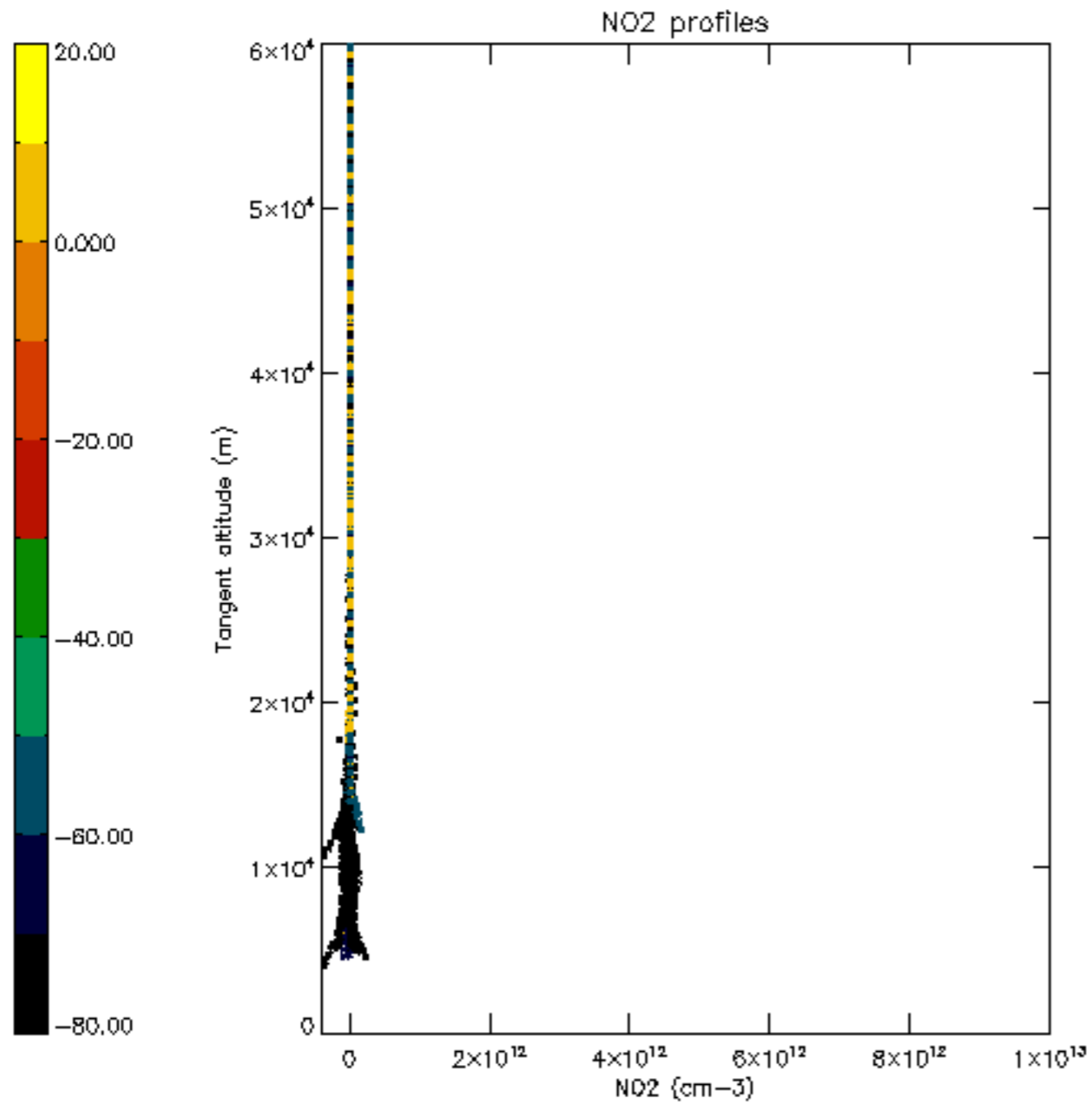


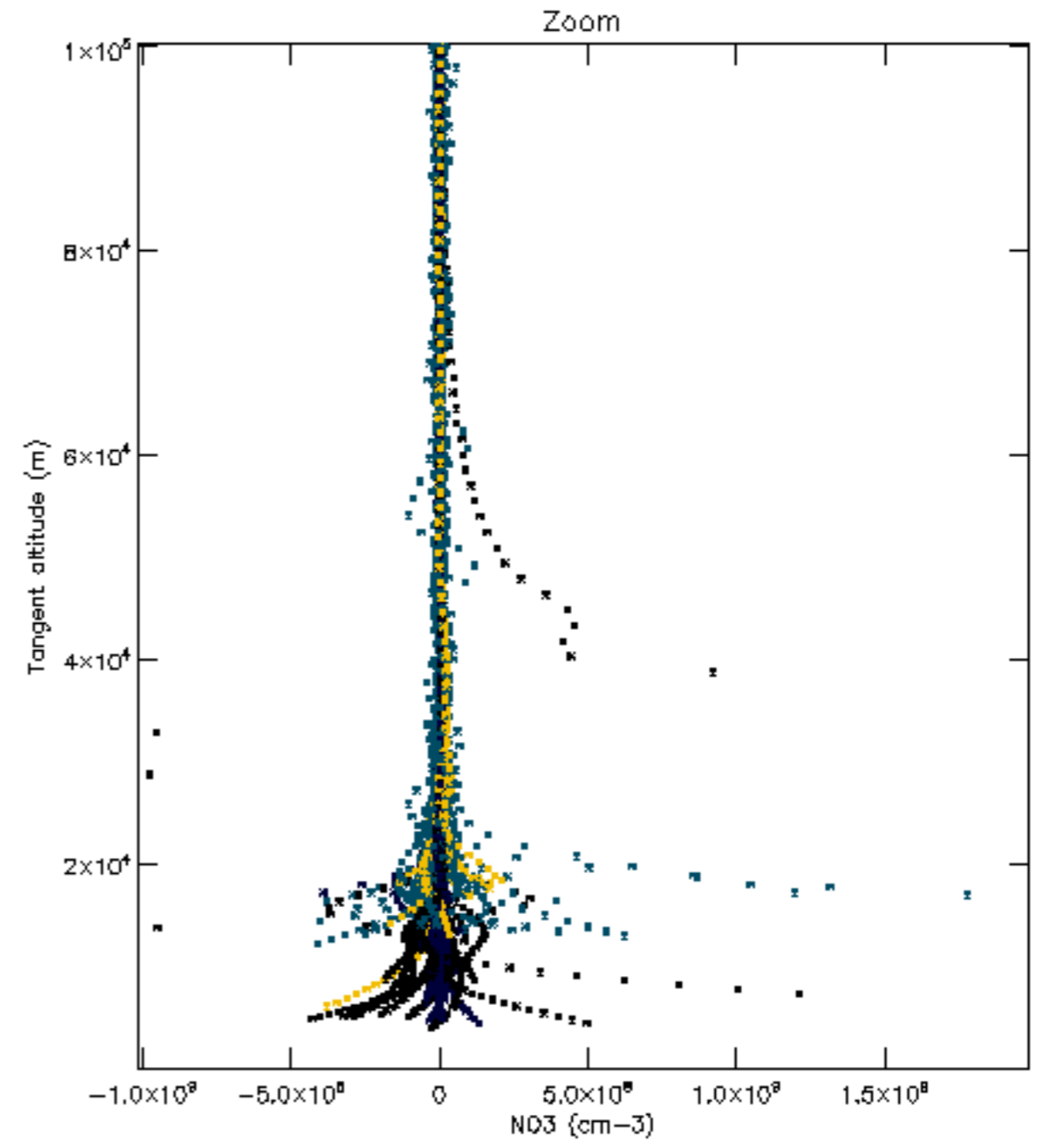
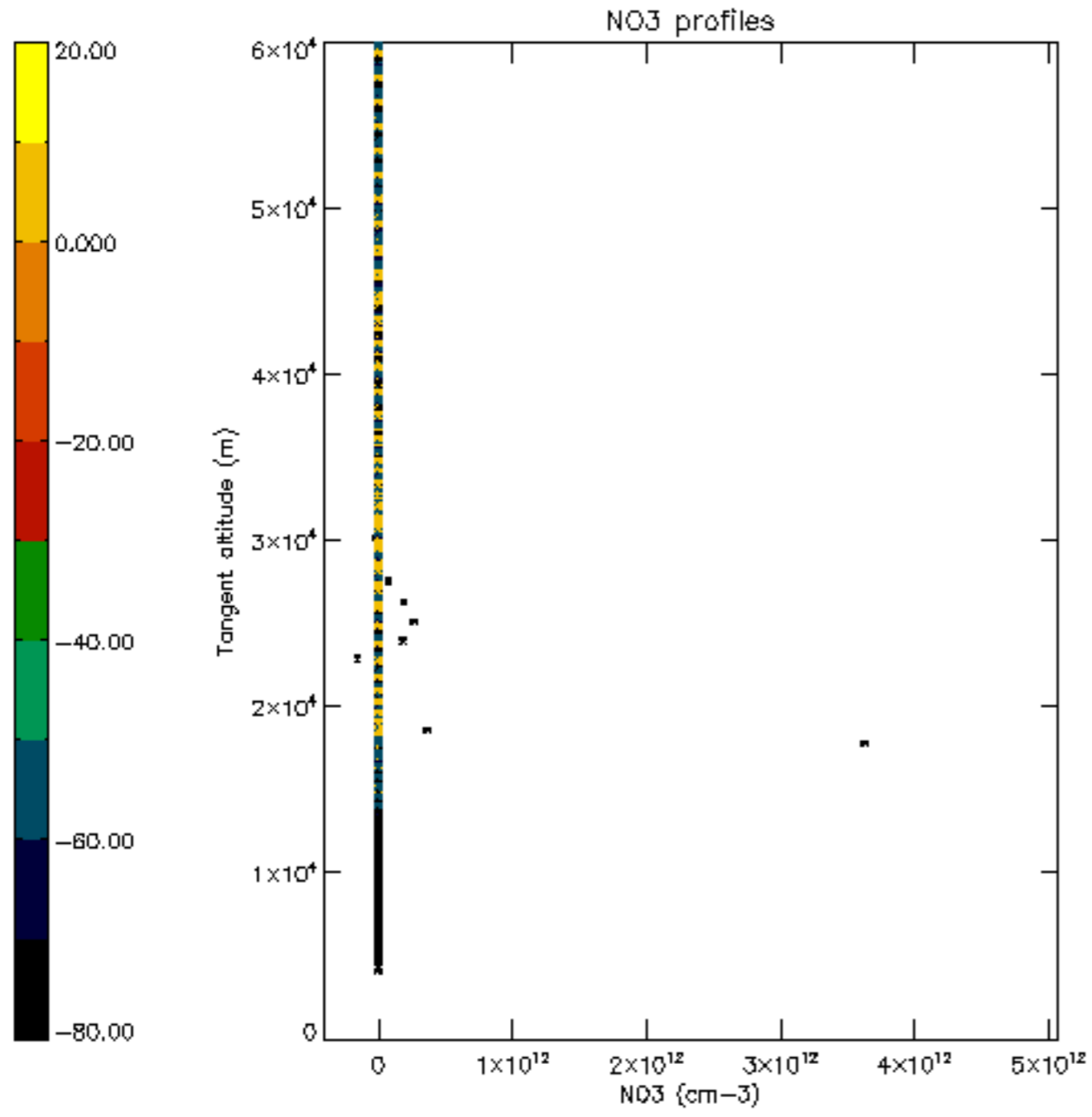


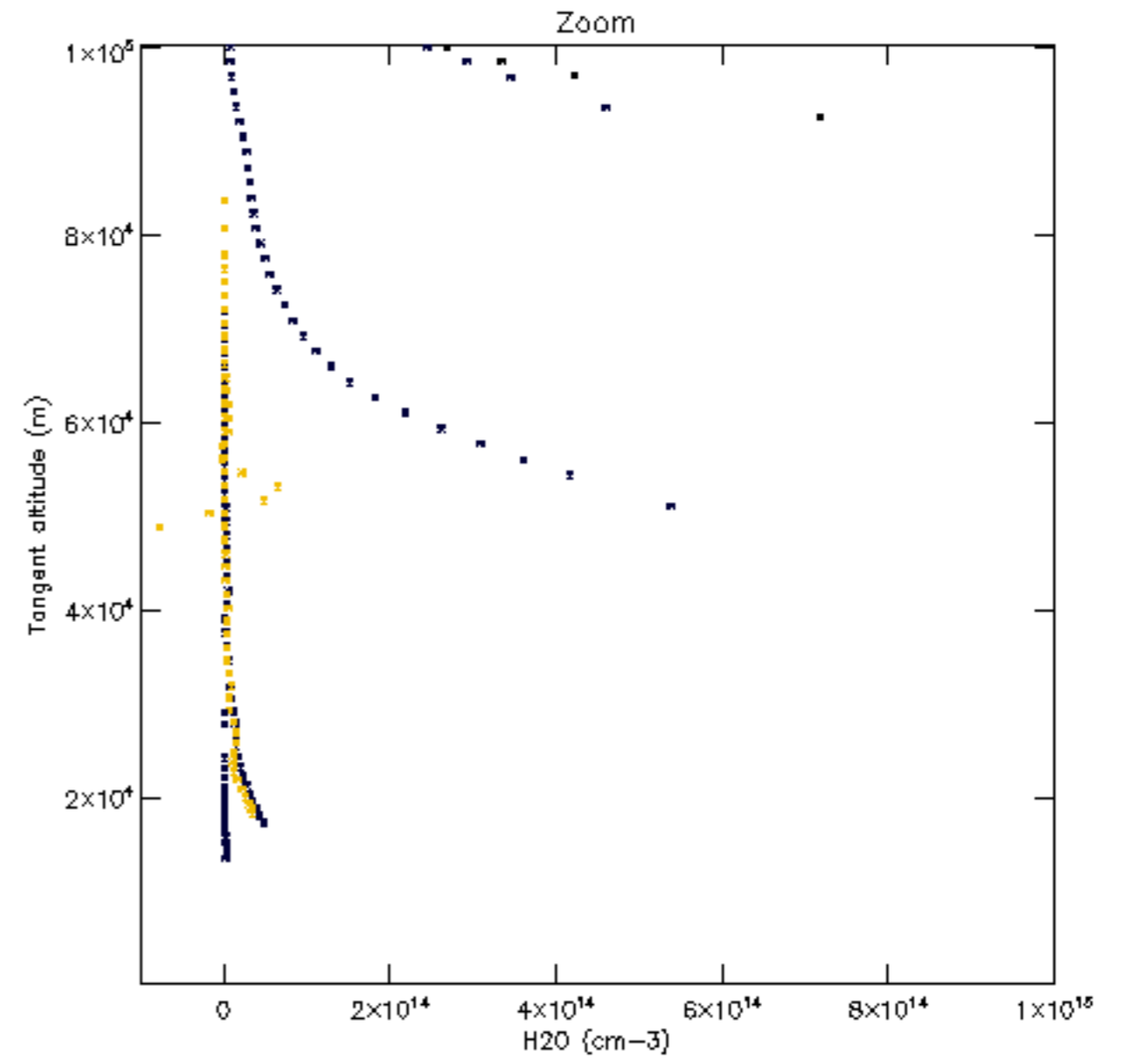
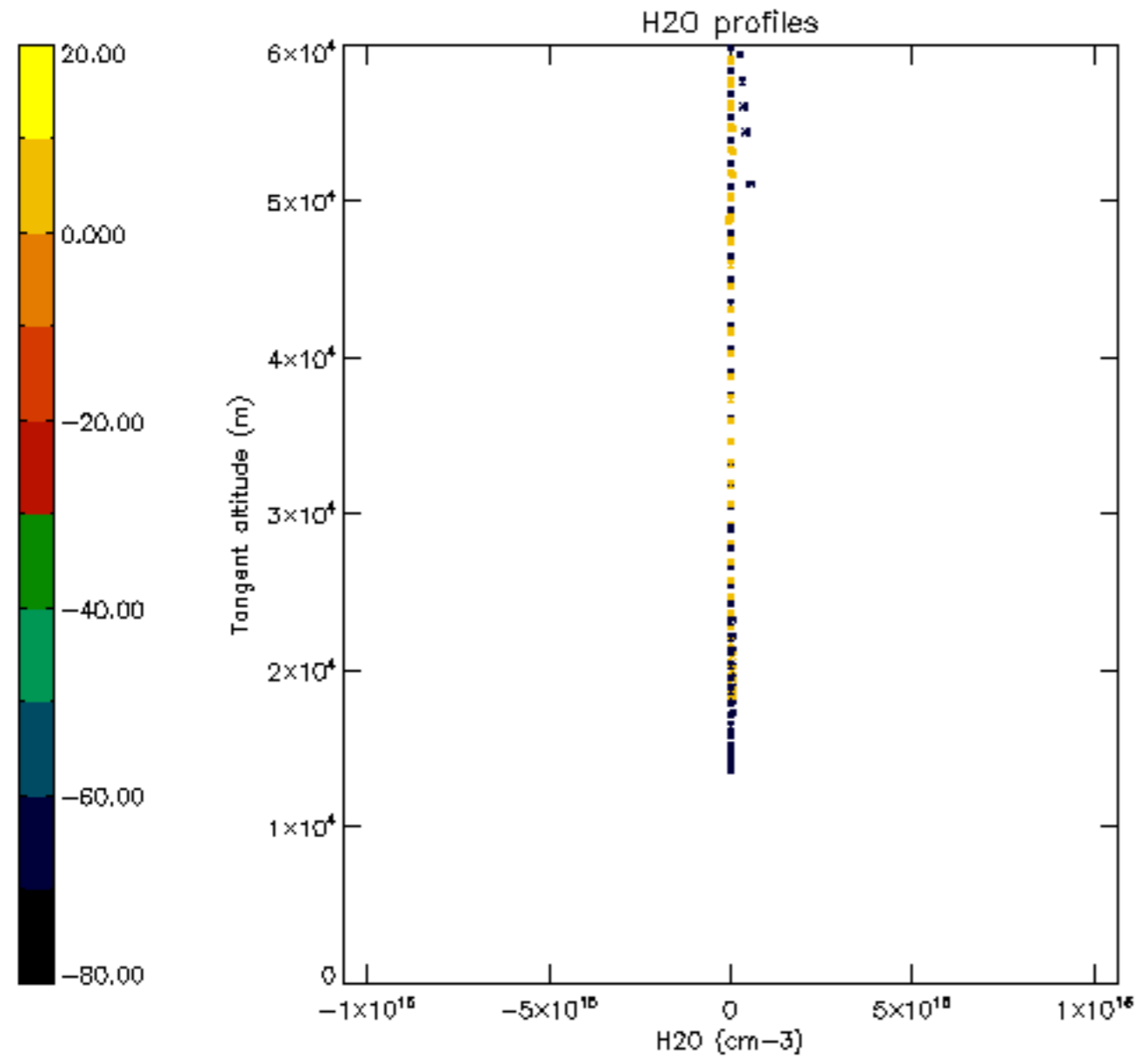


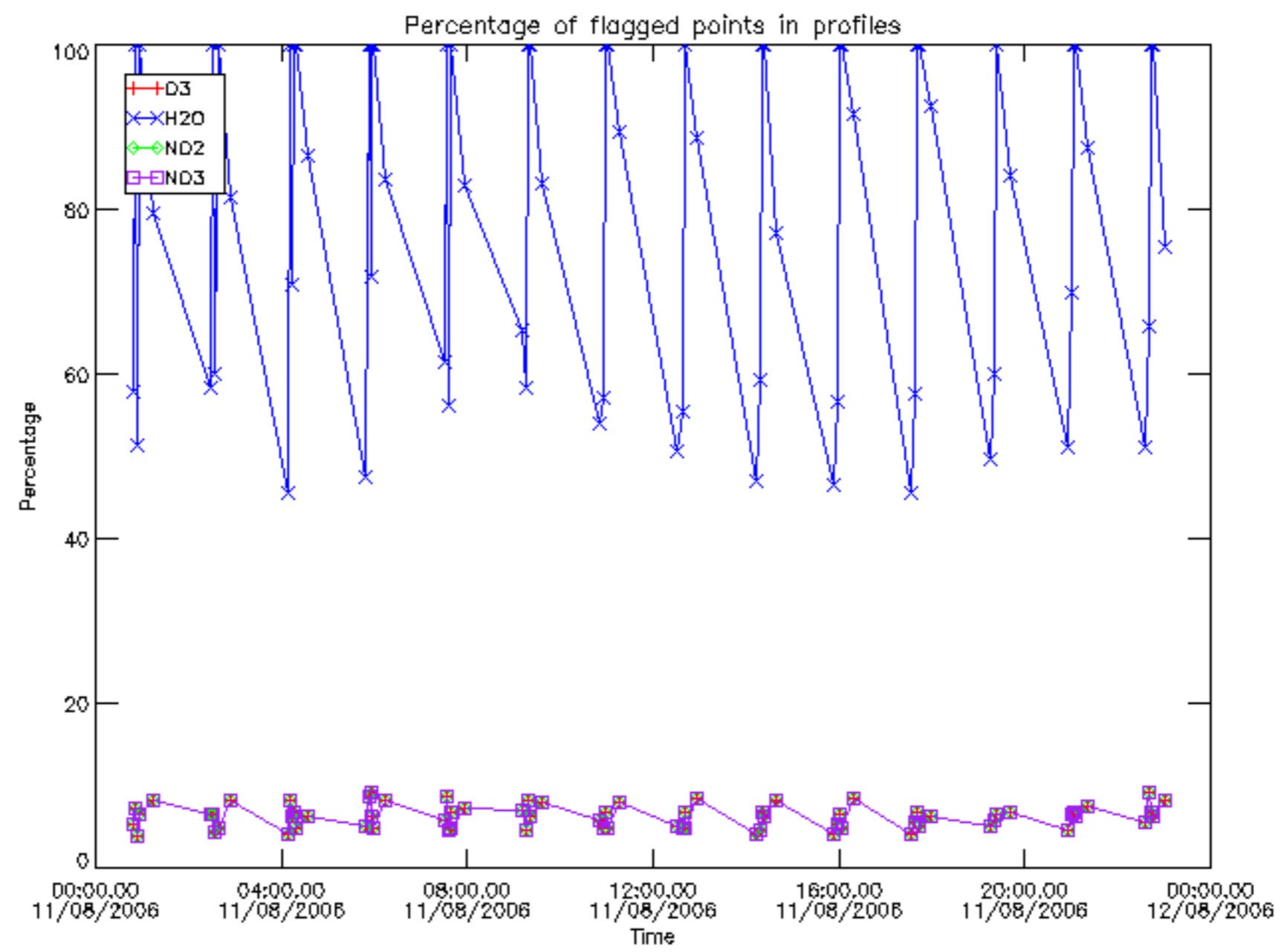




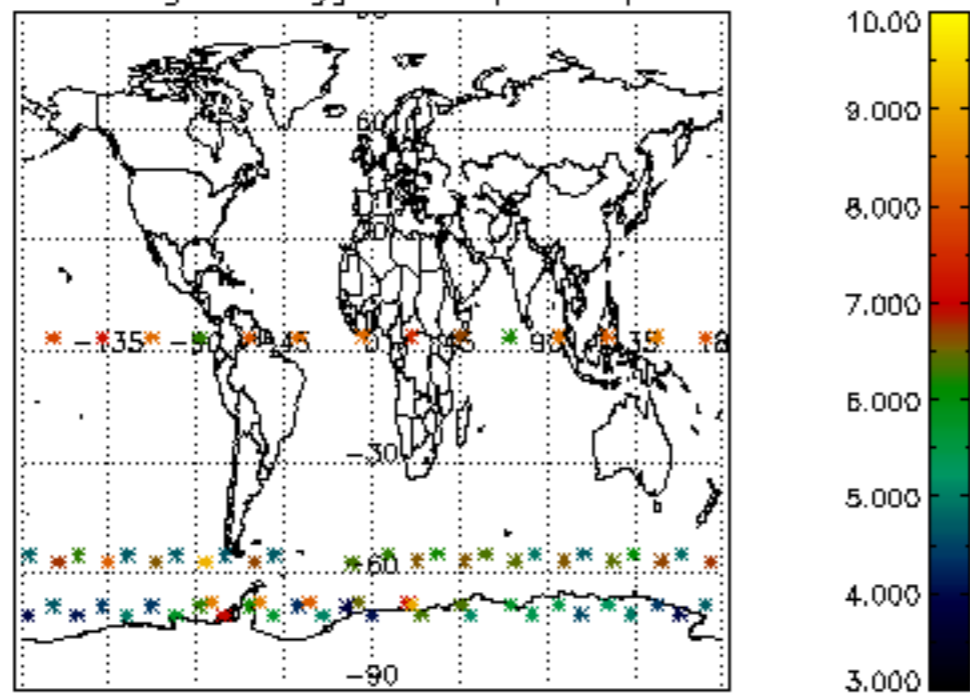




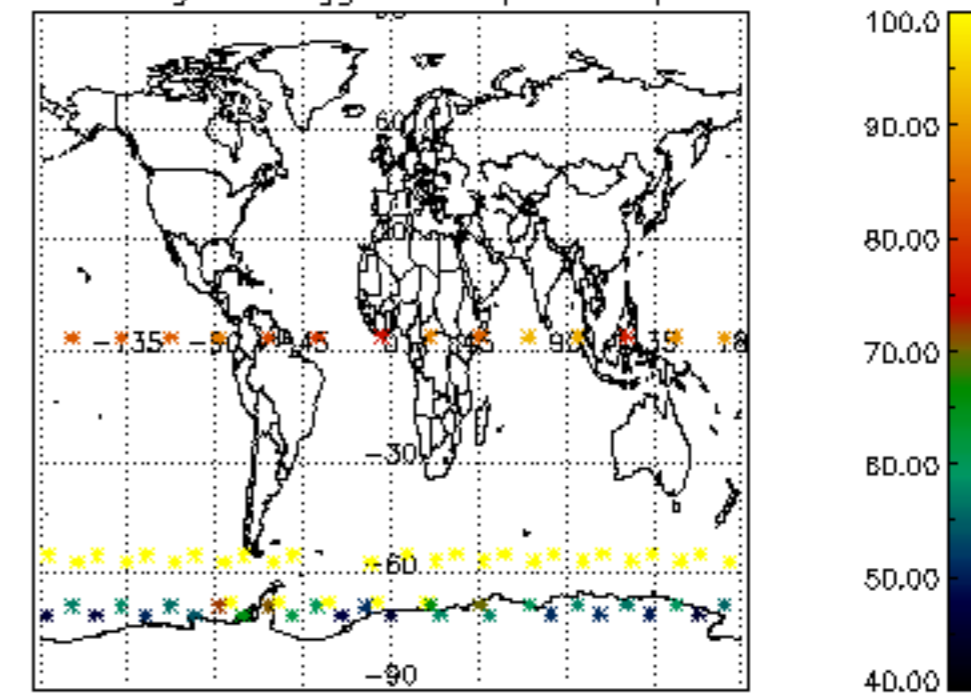




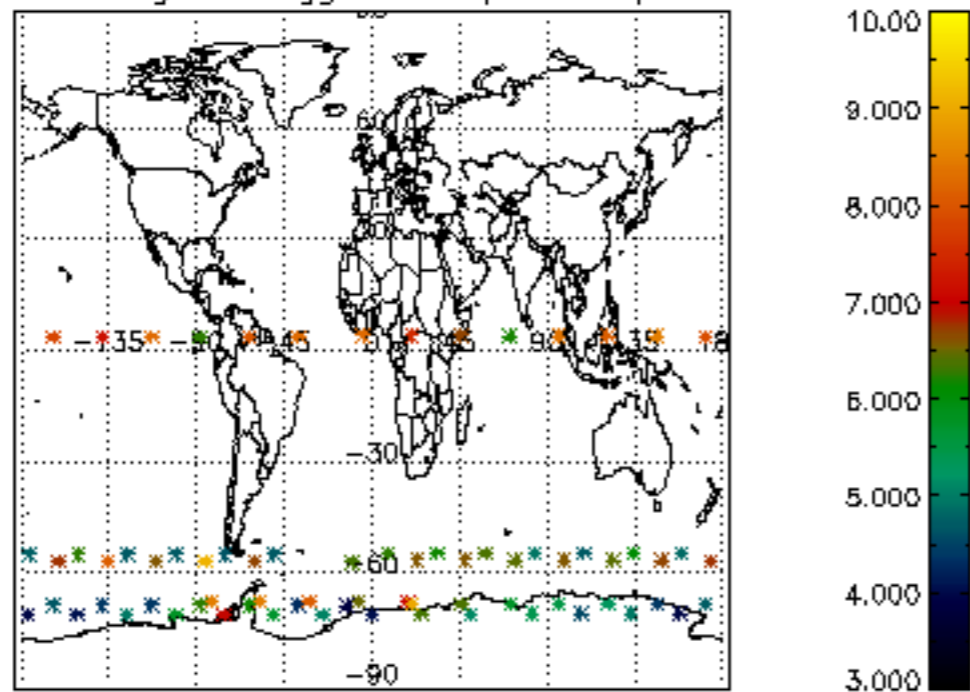
Percentage of flagged data per D3 profile



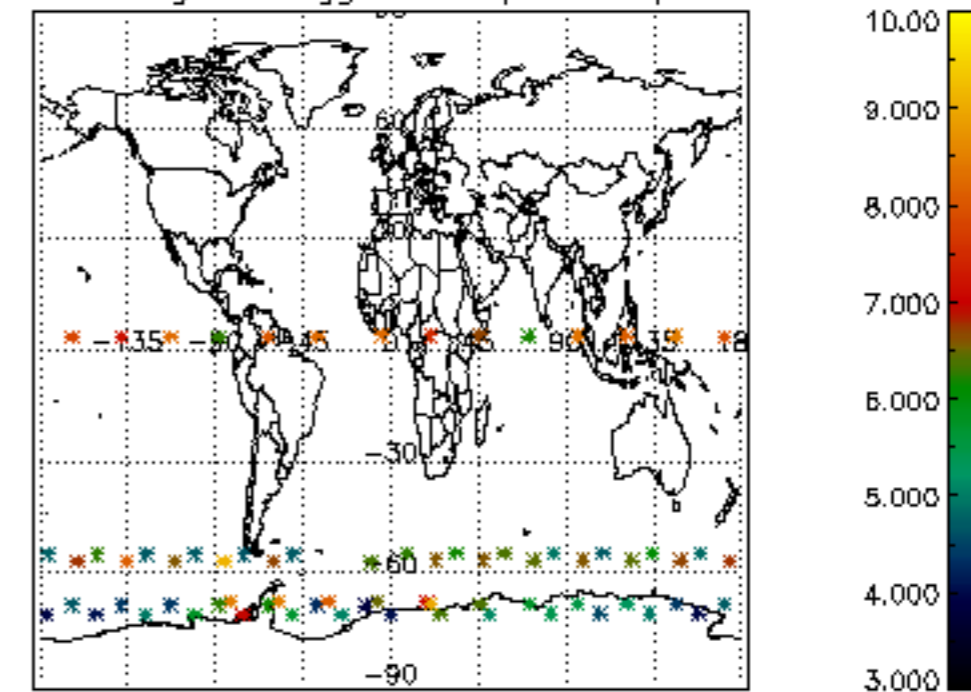
Percentage of flagged data per H2O profile

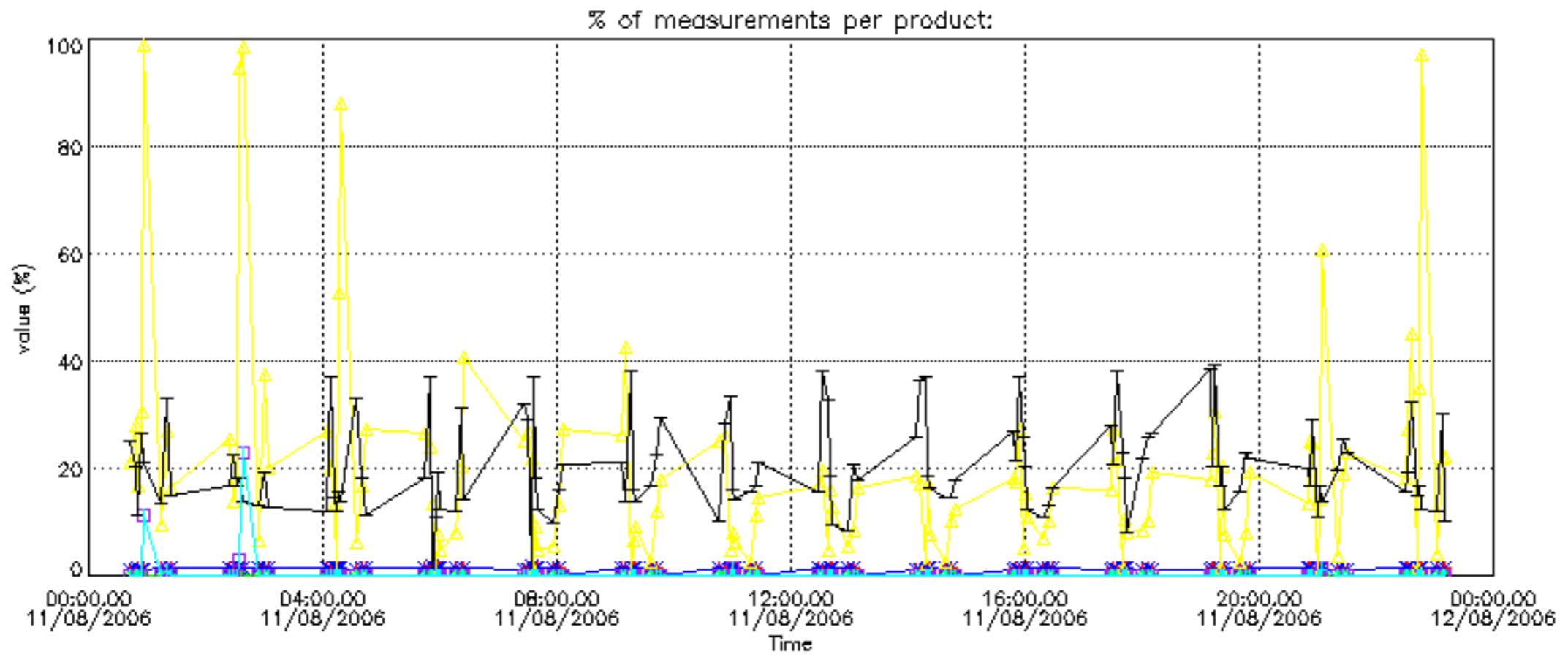


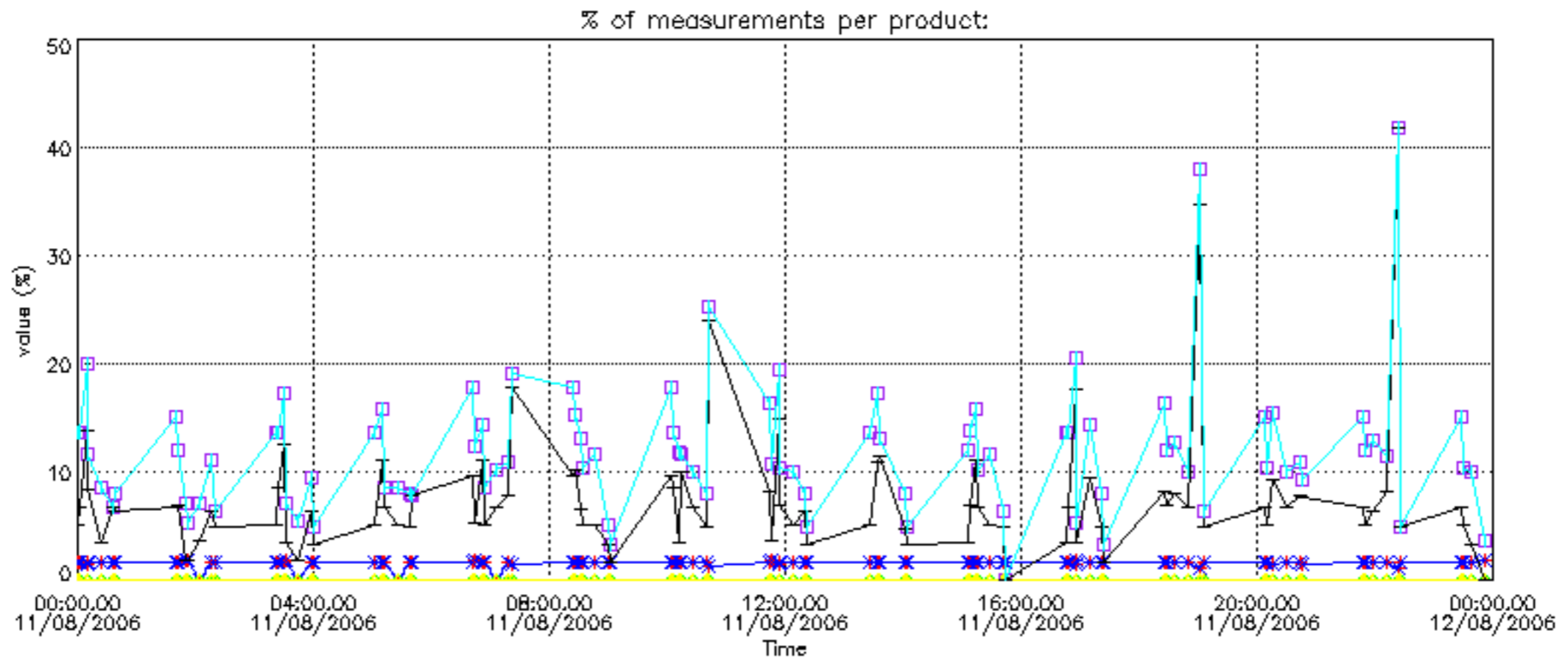
Percentage of flagged data per NO2 profile



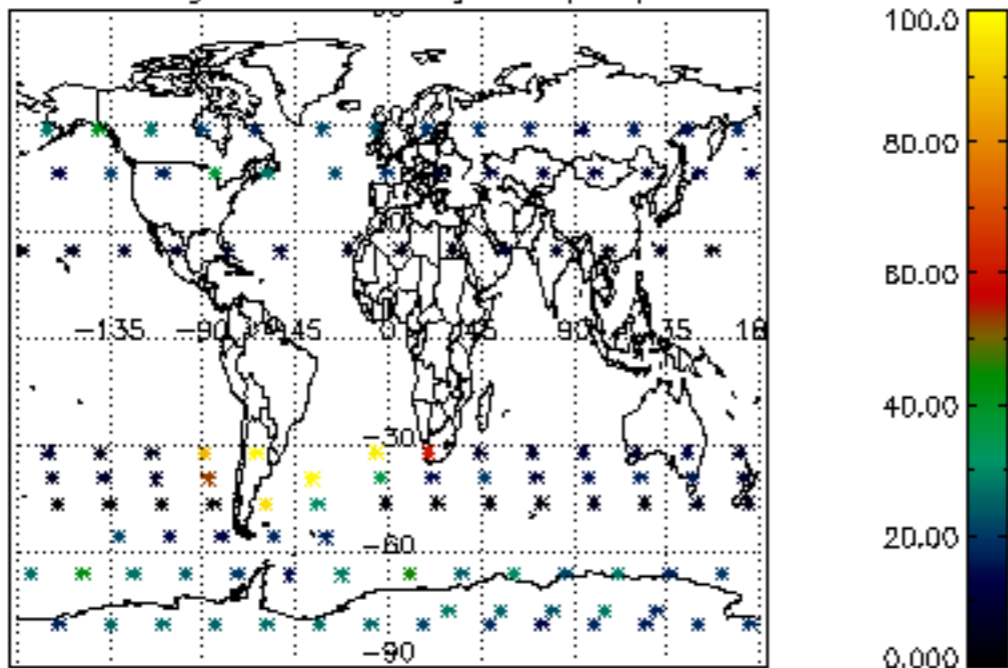
Percentage of flagged data per NO3 profile



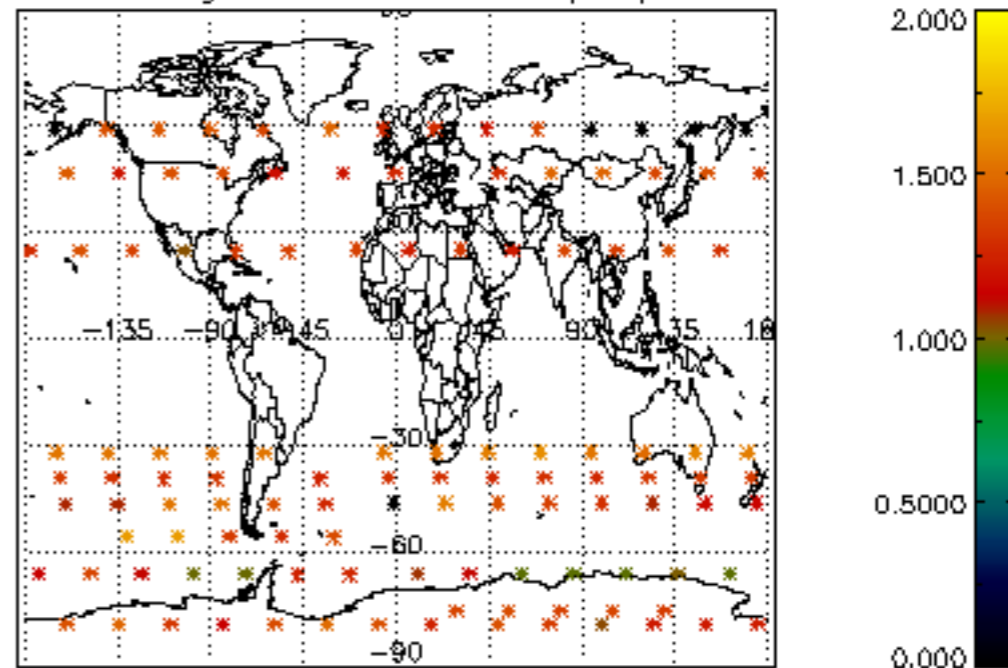




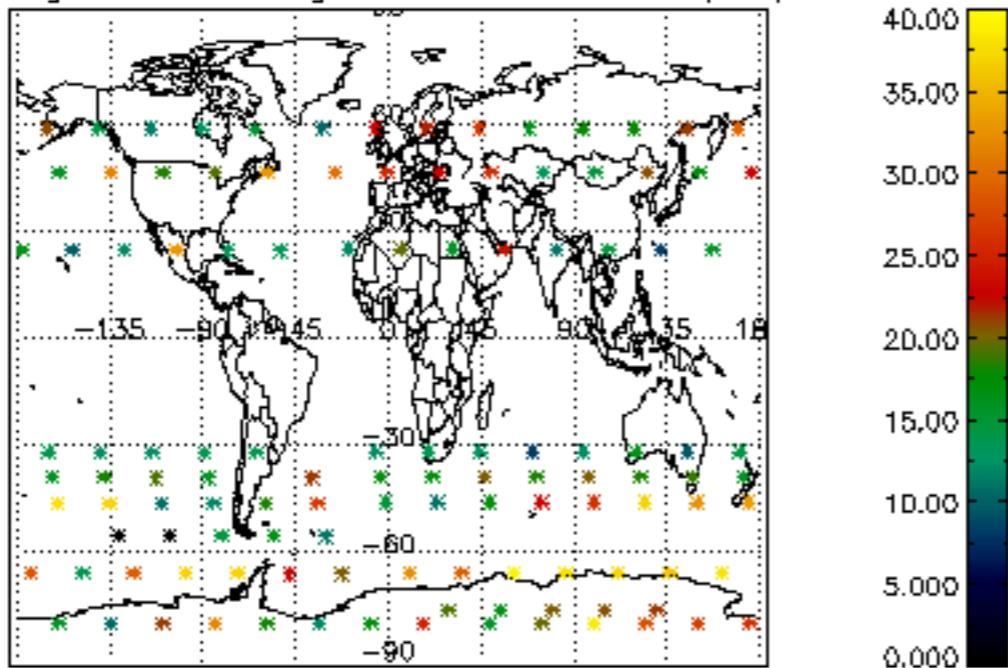
Percentage of cosmic ray hits per profile



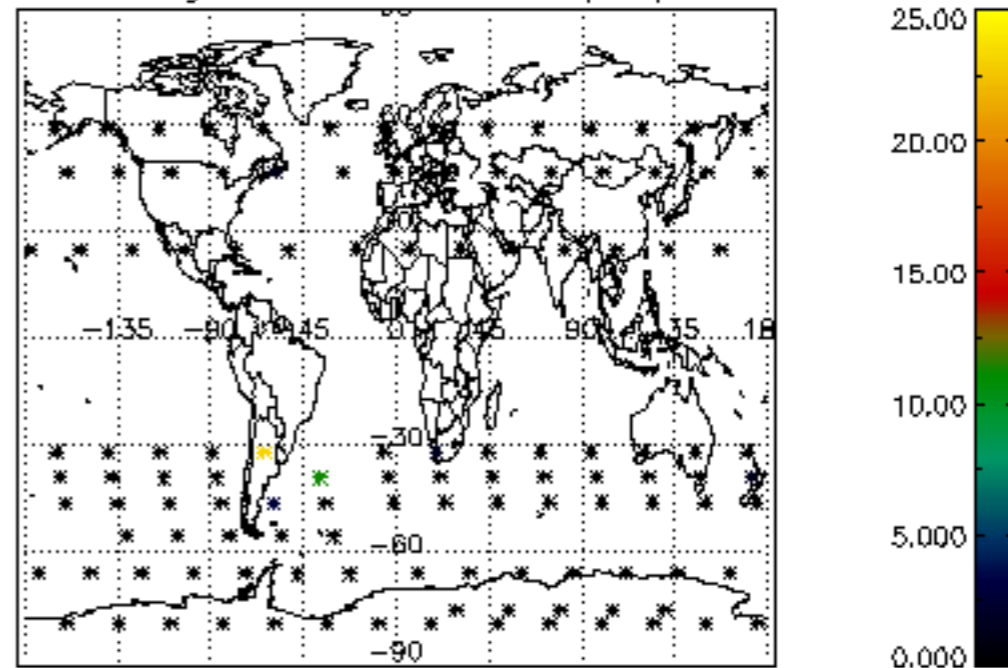
Percentage of datation errors per profile



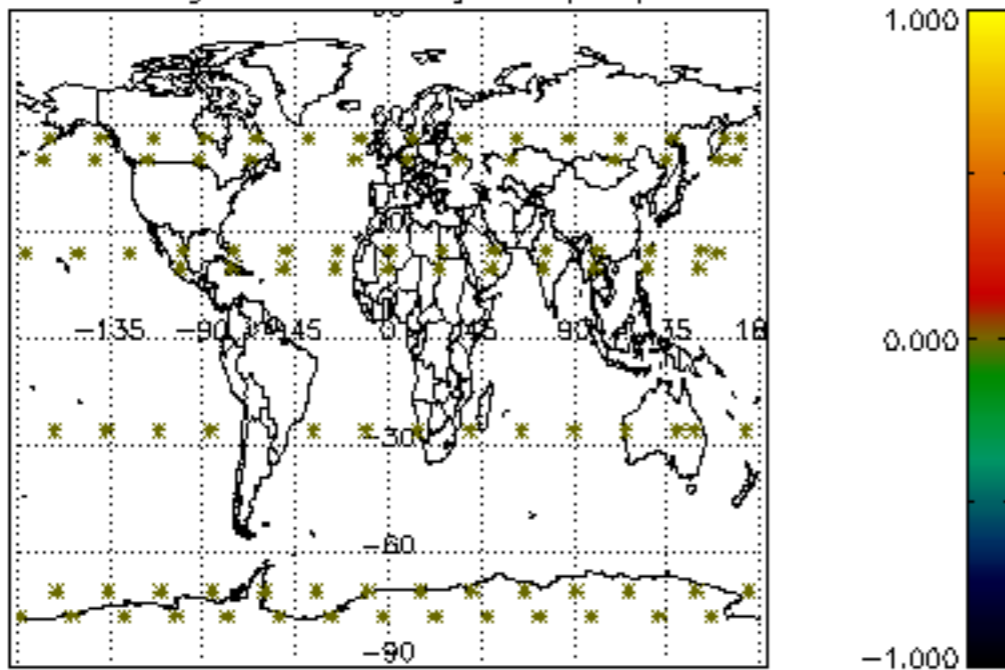
Percentage of star falling outside central band per profile



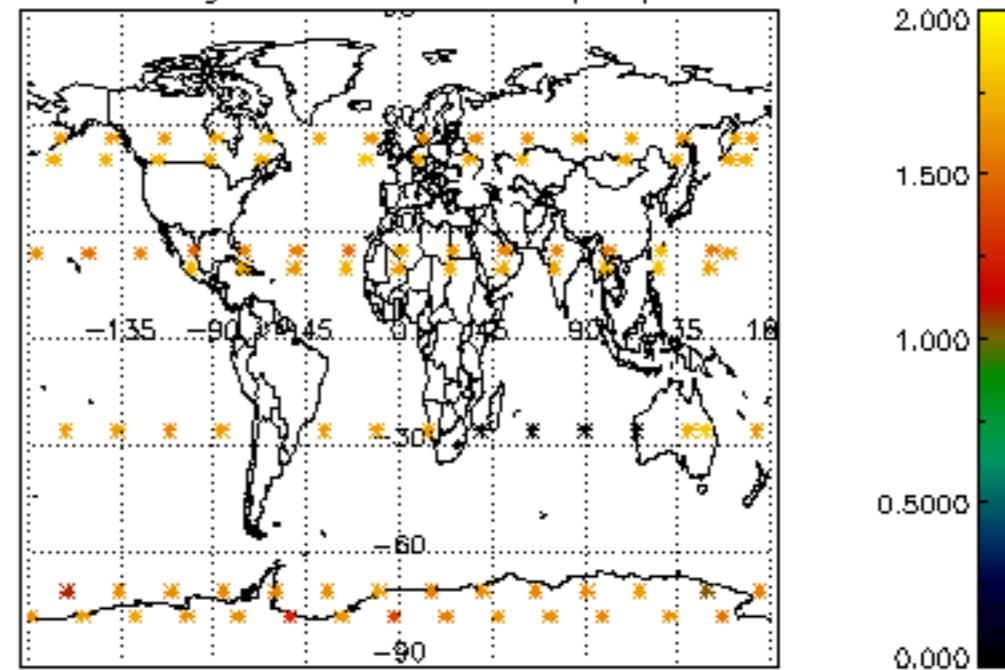
Percentage of saturation errors per profile



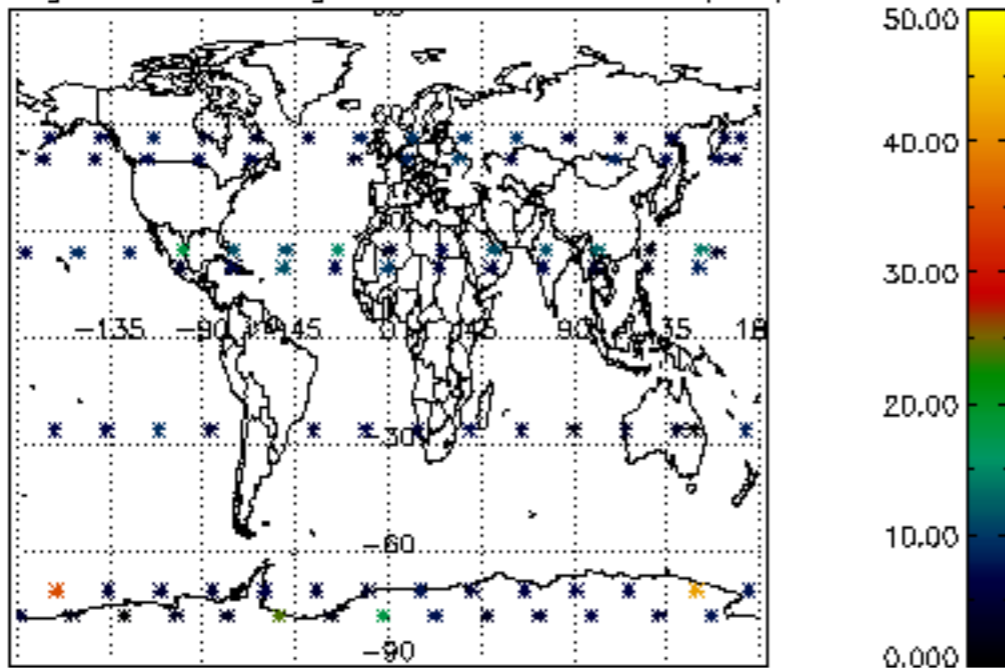
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

