

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](#)

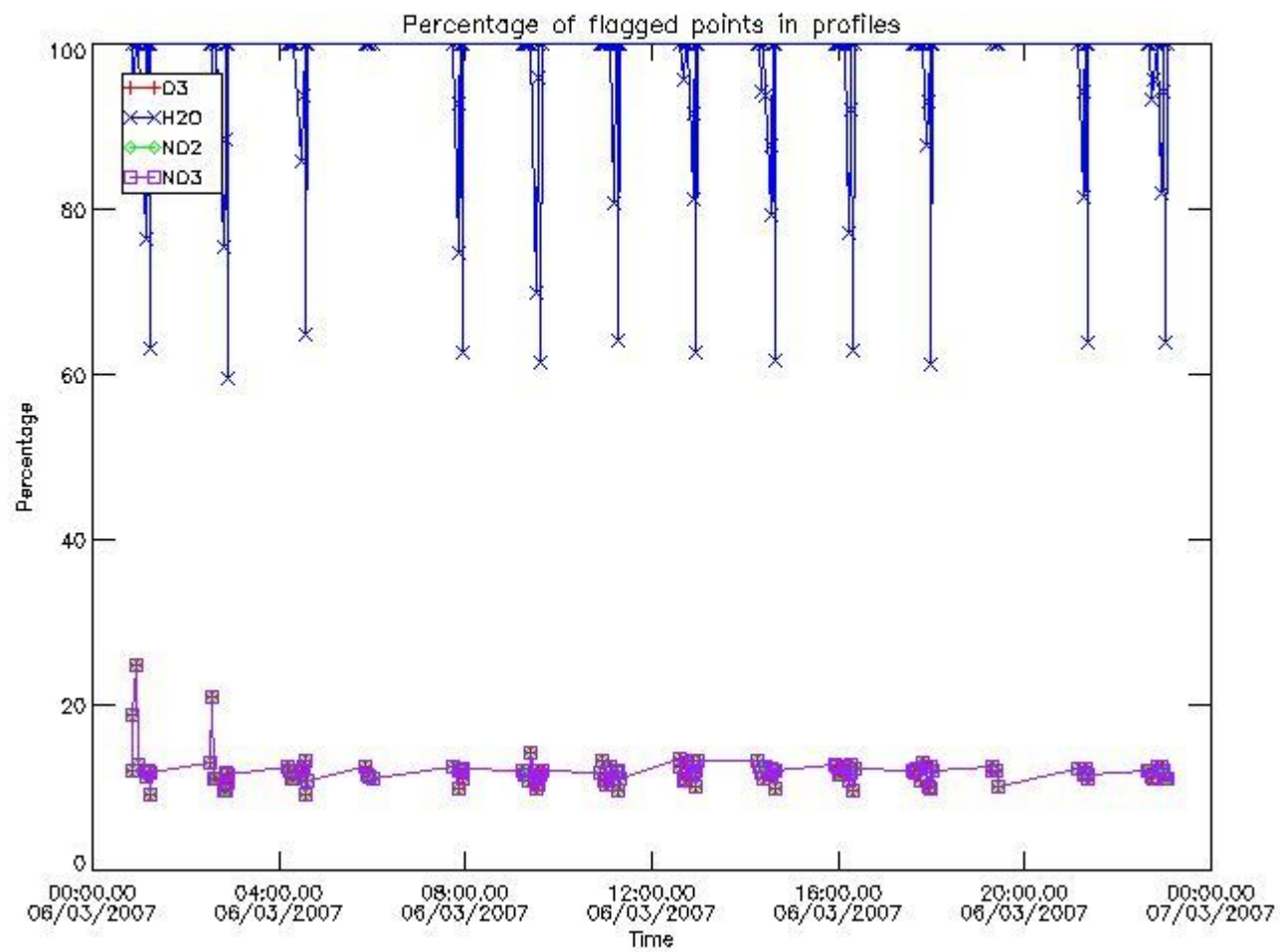
[6. Auxiliary Data Files used for the production reported in section 2](#)

220	GOM_NL__2PRFIN20070306_224008_000000422056_00115_26221_8504.N1	06-MAR-2007 22:40:08	Dark	42.000	57	34Sig Sgr	2.0660	26000.	84	26221	No
221	GOM_NL__2PRFIN20070306_224323_000000452056_00115_26221_8505.N1	06-MAR-2007 22:43:23	Dark	45.000	38	20Eps Sgr	1.8360	11000.	90	26221	No
222	GOM_NL__2PRFIN20070306_224631_000000462056_00115_26221_8506.N1	06-MAR-2007 22:46:31	Dark	45.500	25	35Lam Sco	1.6200	28000.	91	26221	No
223	GOM_NL__2PRFIN20070306_224950_000000412056_00116_26222_8504.N1	06-MAR-2007 22:49:50	Dark	40.500	141	Bet Ara	2.8400	4600.0	81	26222	No
224	GOM_NL__2PRFIN20070306_225625_000000452056_00116_26222_8505.N1	06-MAR-2007 22:56:25	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	26222	No
225	GOM_NL__2PRFIN20070306_225743_000000442056_00116_26222_8506.N1	06-MAR-2007 22:57:43	Dark	44.000	10	Bet Cen	0.61000	28000.	88	26222	No
226	GOM_NL__2PRFIN20070306_225938_000000422056_00116_26222_8507.N1	06-MAR-2007 22:59:38	Dark	42.000	77	Eps Cen	2.3030	28000.	84	26222	No
227	GOM_NL__2PRFIN20070306_230112_000000462056_00116_26222_8508.N1	06-MAR-2007 23:01:12	Dark	46.000	26	Gam Cru	1.6240	2900.0	92	26222	No
228	GOM_NL__2PRFIN20070306_230244_000000462056_00116_26222_8509.N1	06-MAR-2007 23:02:44	Dark	45.500	64	Gam Cen	2.2000	10600.	91	26222	No
229	GOM_NL__2PRFIN20070306_232339_000000402056_00116_26222_8510.N1	06-MAR-2007 23:23:39	Bright	40.000	22	32Alp Leo	1.3600	15200.	80	26222	No
230	GOM_NL__2PRFIN20070306_232607_000000402056_00116_26222_8511.N1	06-MAR-2007 23:26:07	Bright	40.000	51	41Gam1Leo	2.0100	4500.0	80	26222	No
231	GOM_NL__2PRFIN20070306_233436_000000422056_00116_26222_8512.N1	06-MAR-2007 23:34:36	Bright	42.000	174	52Psi UMa	3.0040	4400.0	84	26222	No
232	GOM_NL__2PRFIN20070306_233733_000000472056_00116_26222_8513.N1	06-MAR-2007 23:37:33	Bright	47.000	82	48Bet UMa	2.3650	10600.	94	26222	No
233	GOM_NL__2PRFIN20070306_233858_000000402056_00116_26222_8514.N1	06-MAR-2007 23:38:58	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	26222	No
234	GOM_NL__2PRFIN20070306_234610_000000372056_00116_26222_8515.N1	06-MAR-2007 23:46:10	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	26222	No
235	GOM_NL__2PRFIN20070306_235842_000000362056_00116_26222_8516.N1	06-MAR-2007 23:58:42	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	26222	No

3. Quality information per product

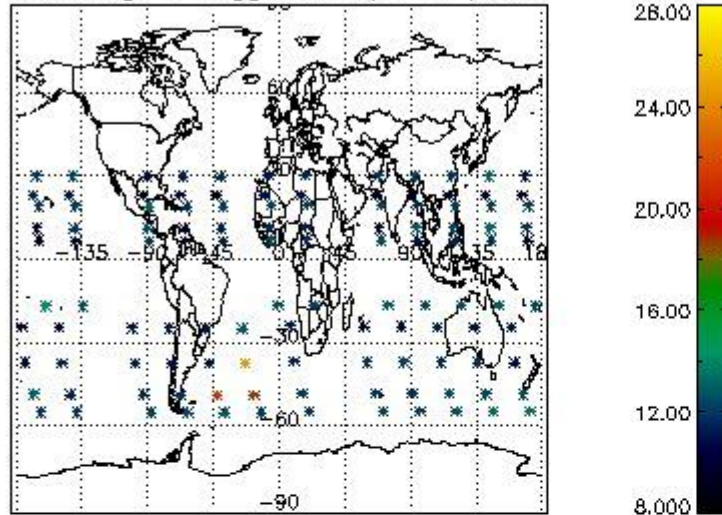
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

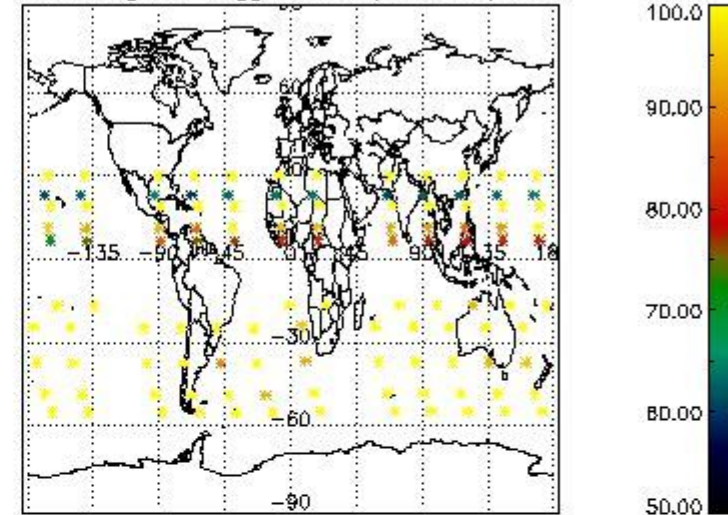


3.2 Plot quality information per product (world map)

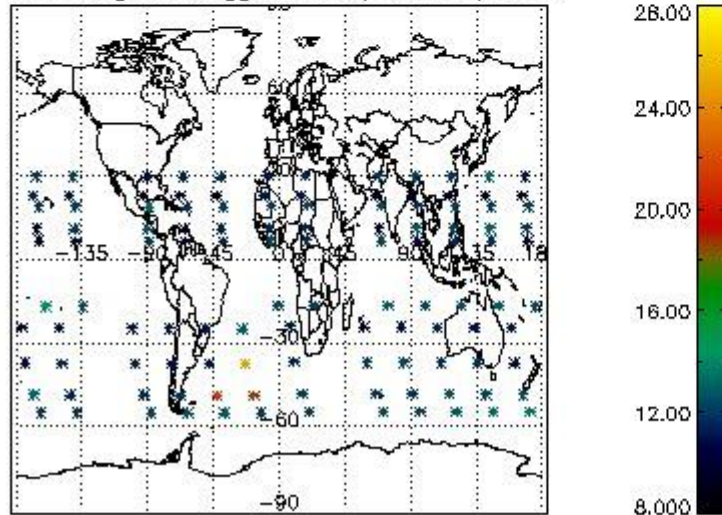
Percentage of flagged data per O3 profile



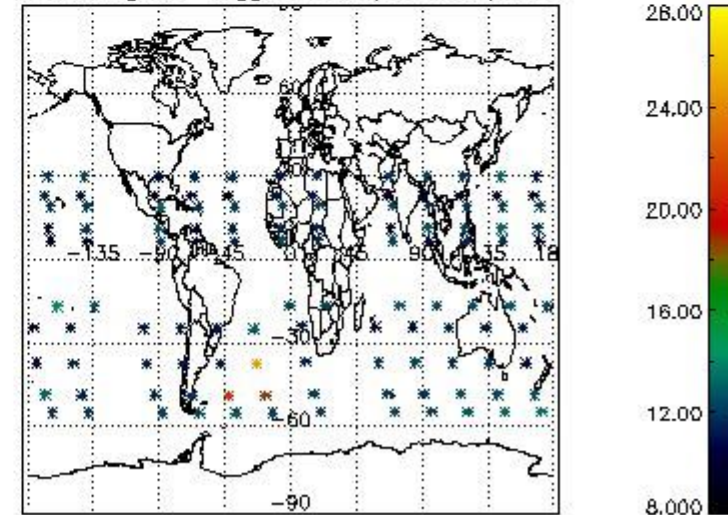
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

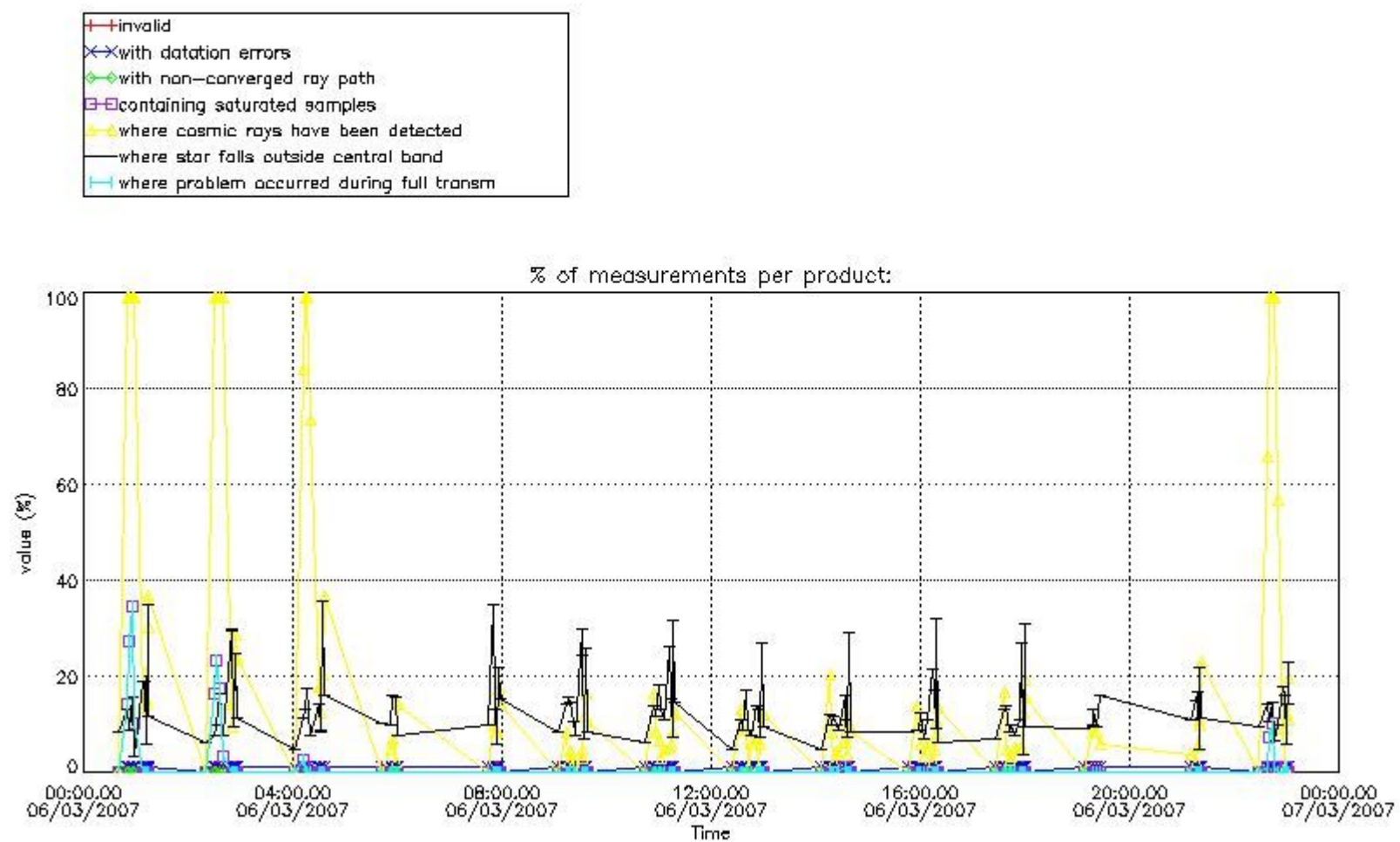


4. Level 1 quality information per product

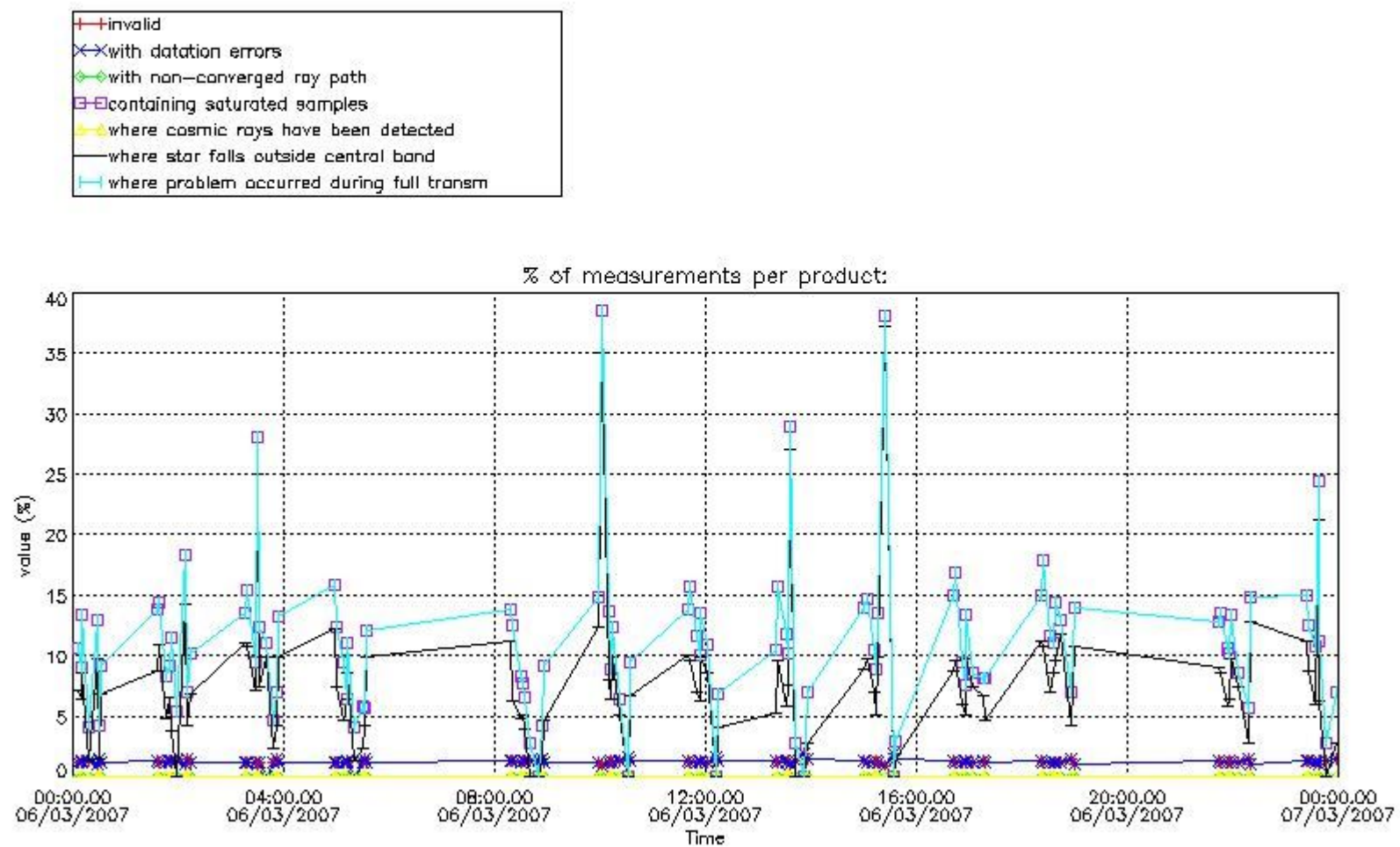
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

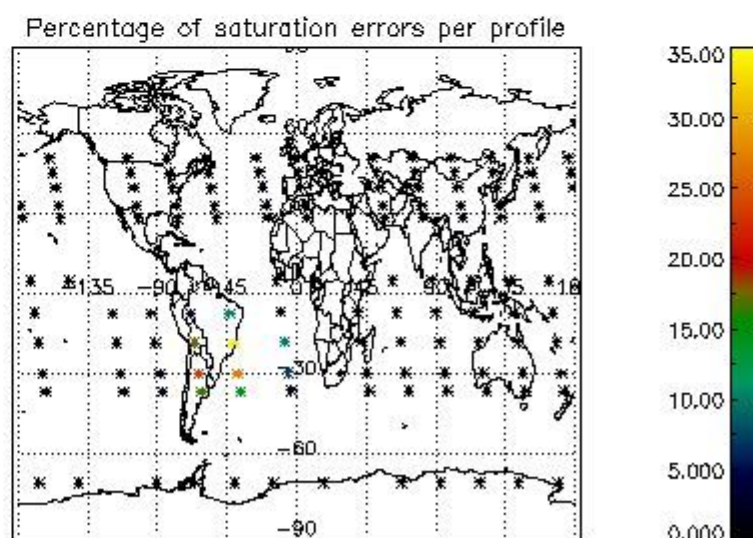
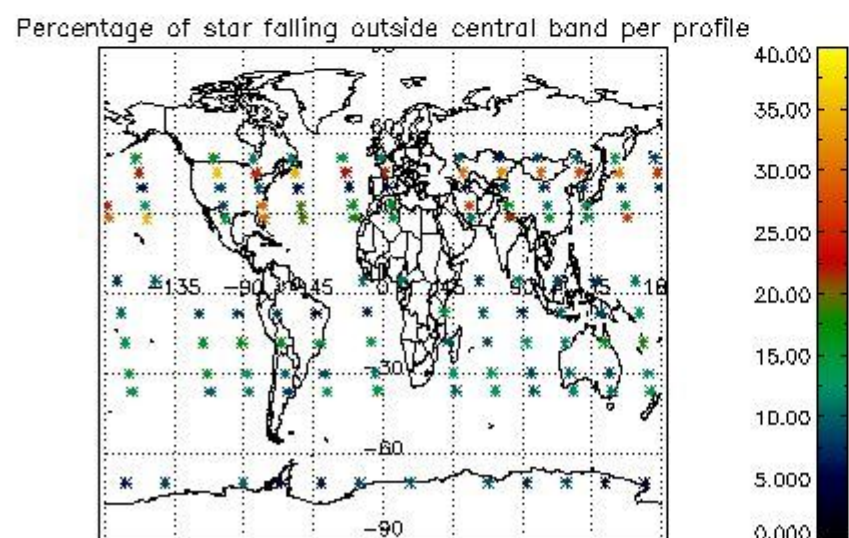
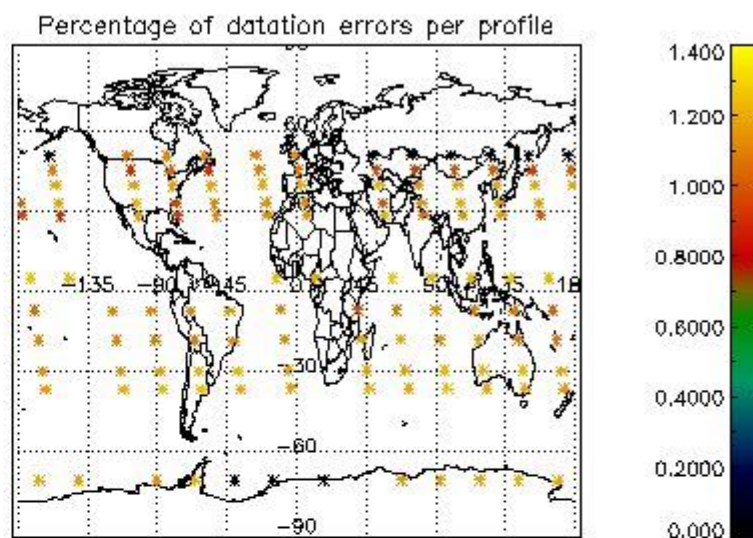
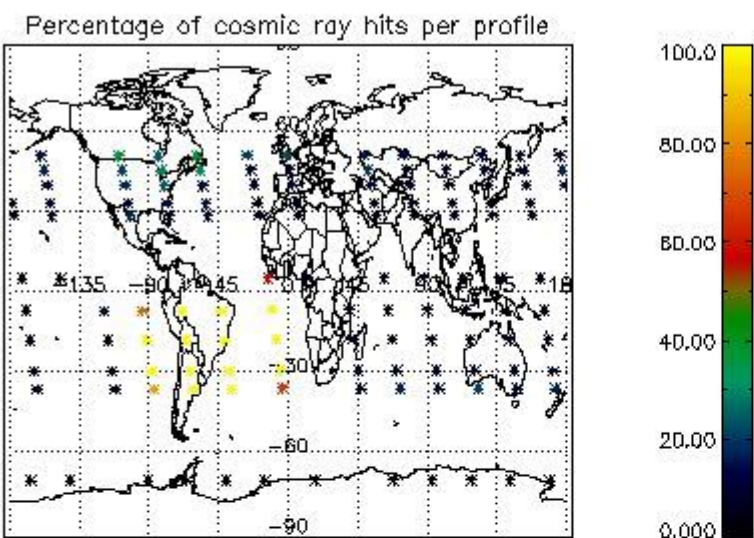


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

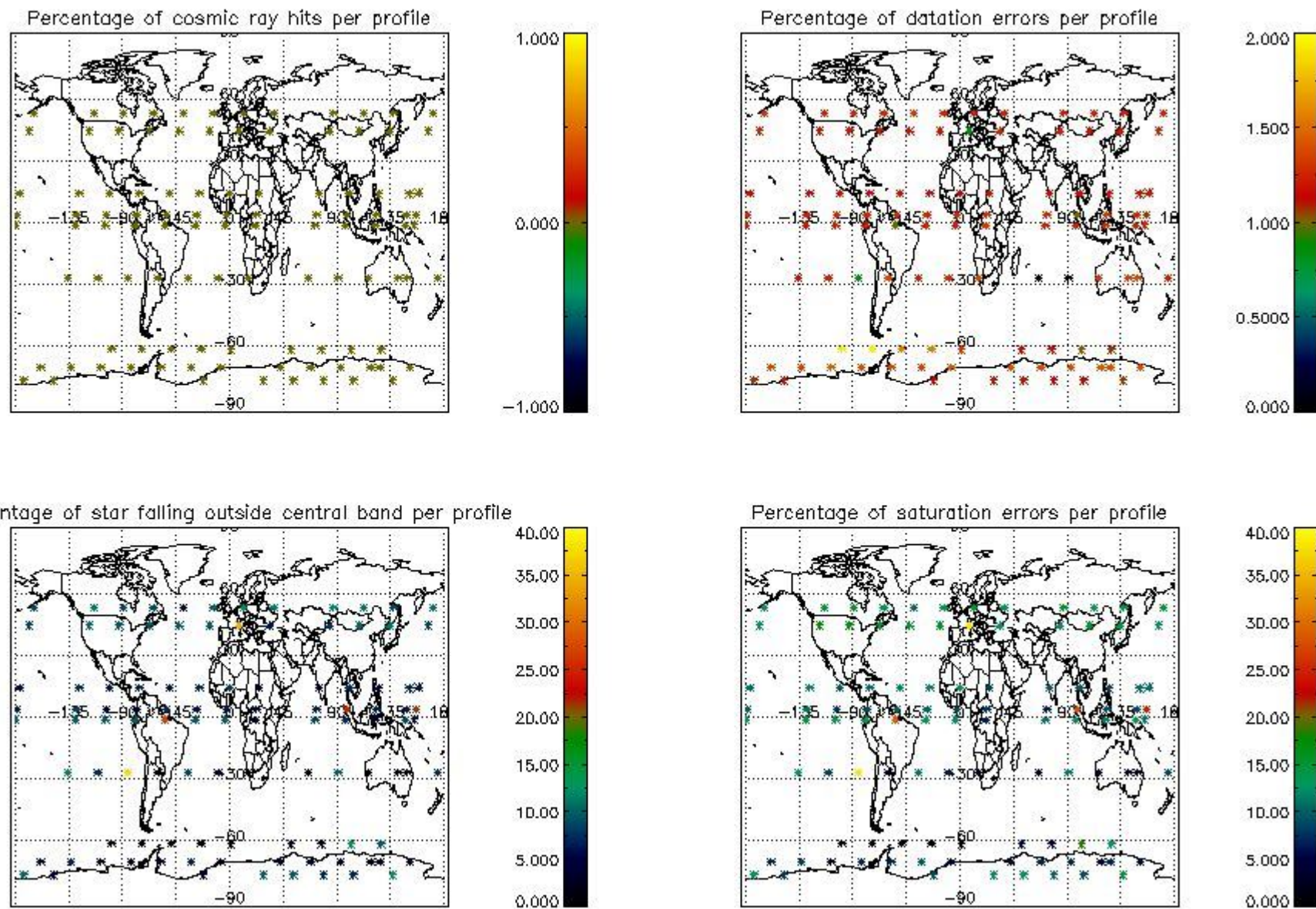


4.2 Plot quality information per product coming from level 1b processing (world map)

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

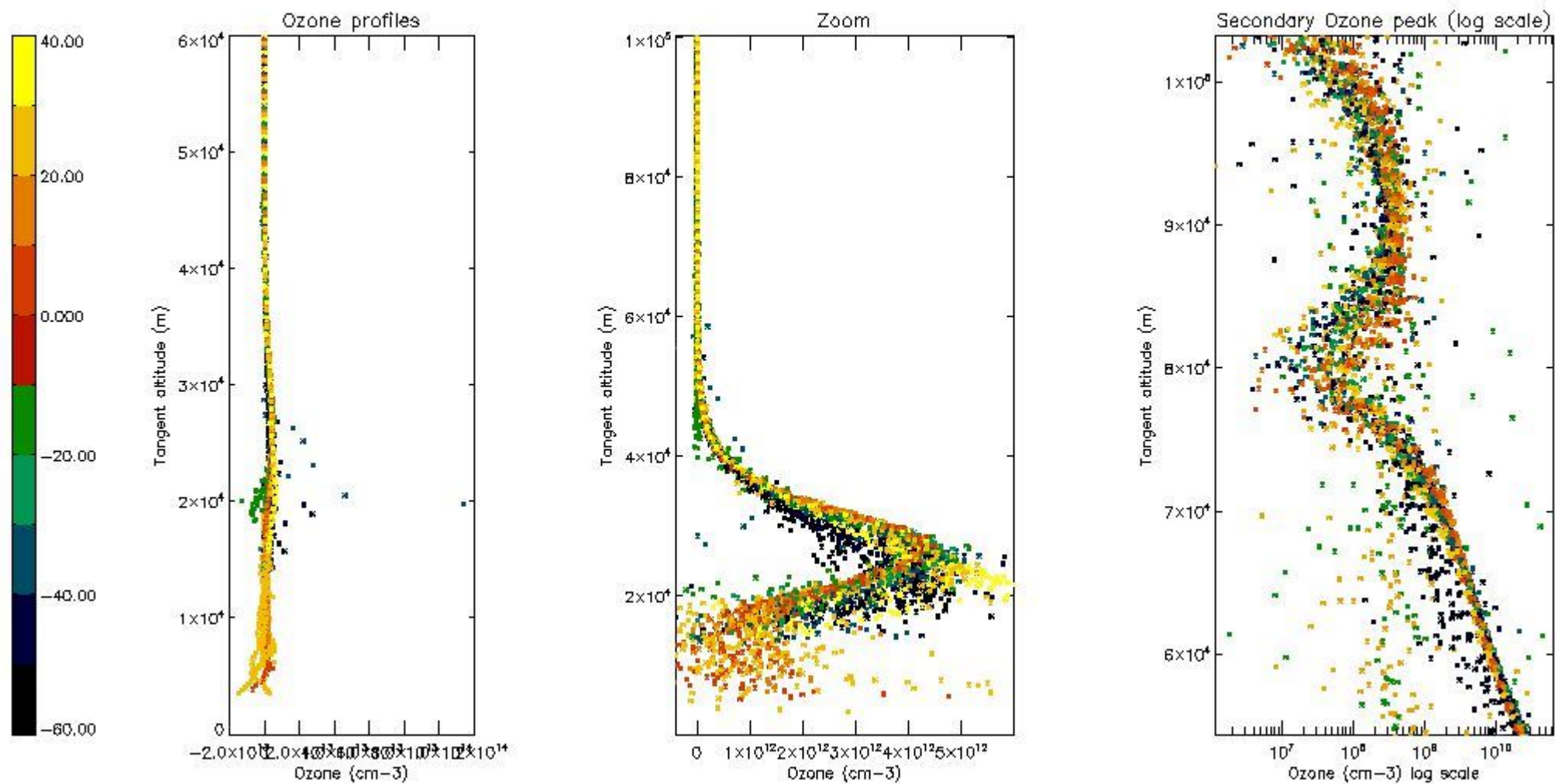
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	53
STD < 20	30

STD < 10	23
STD < 5	18

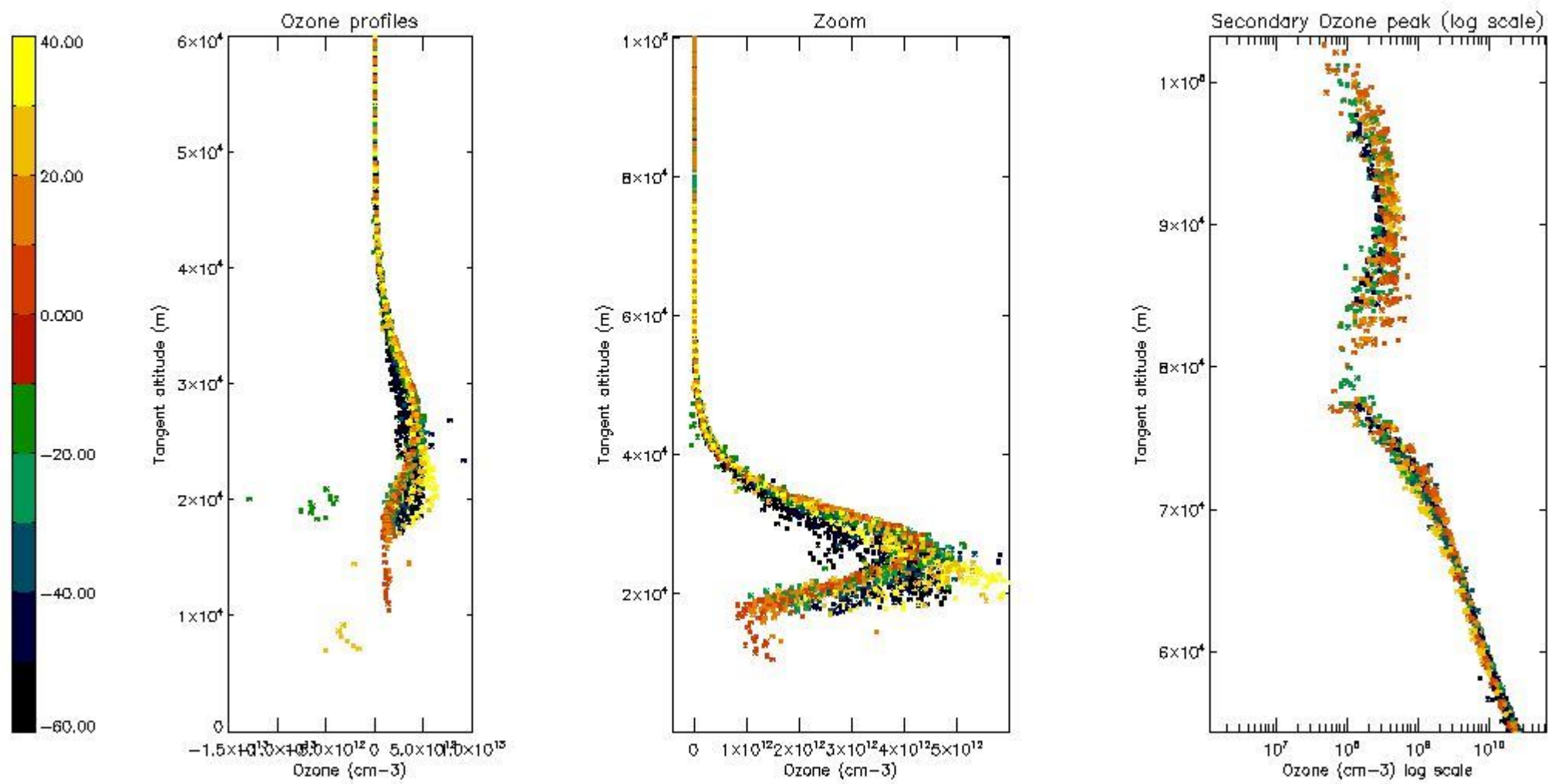
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



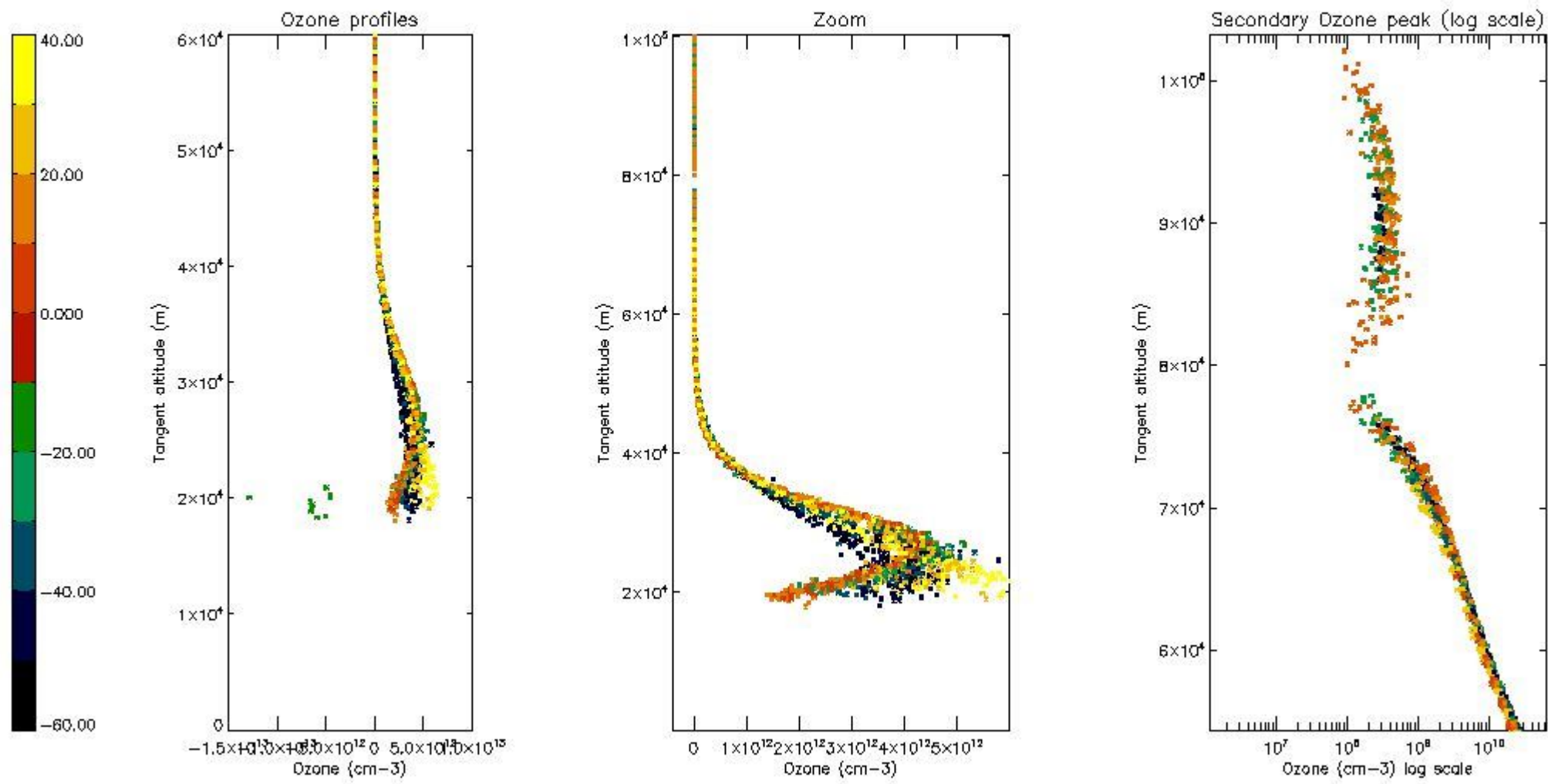
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



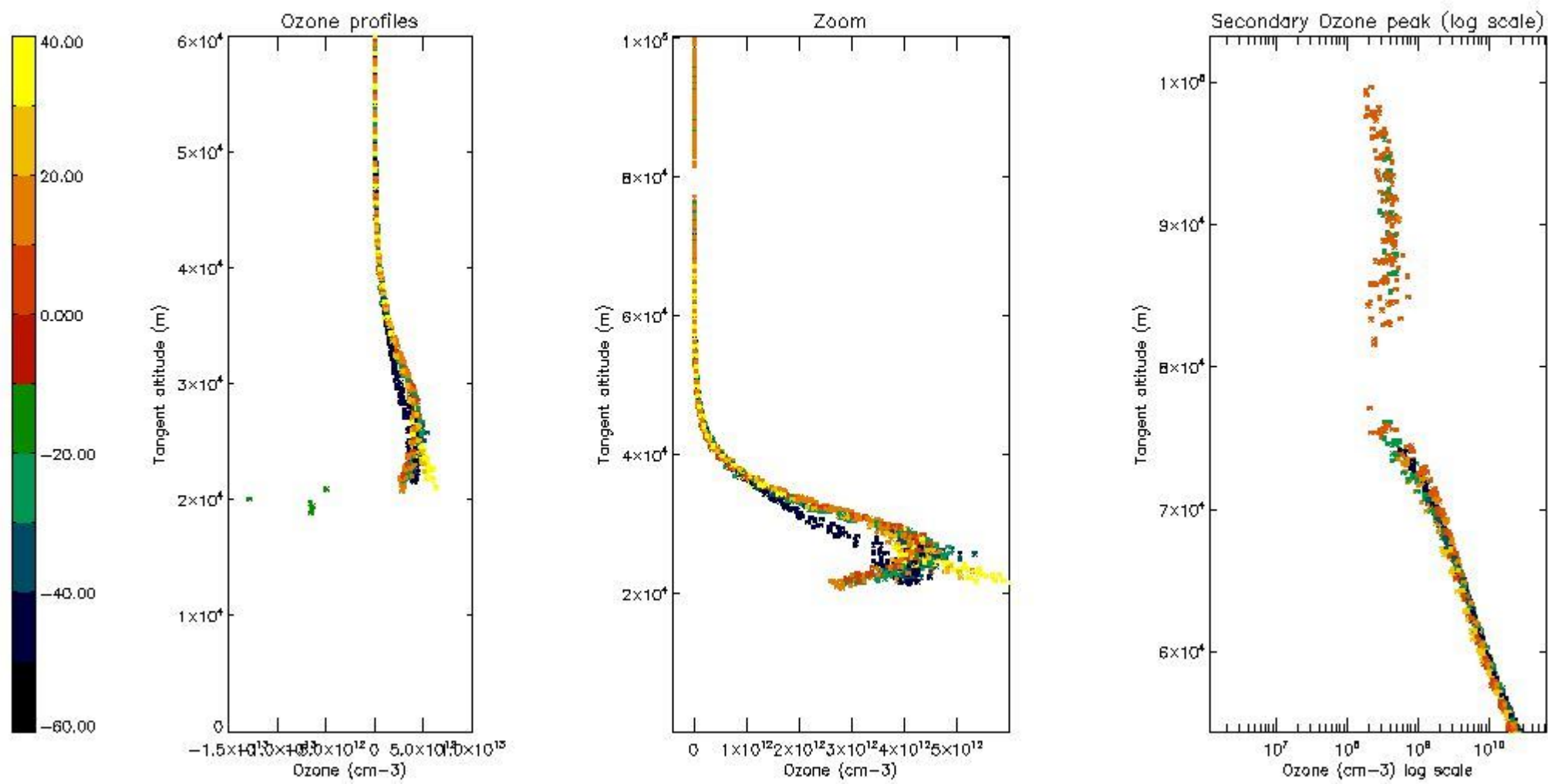
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



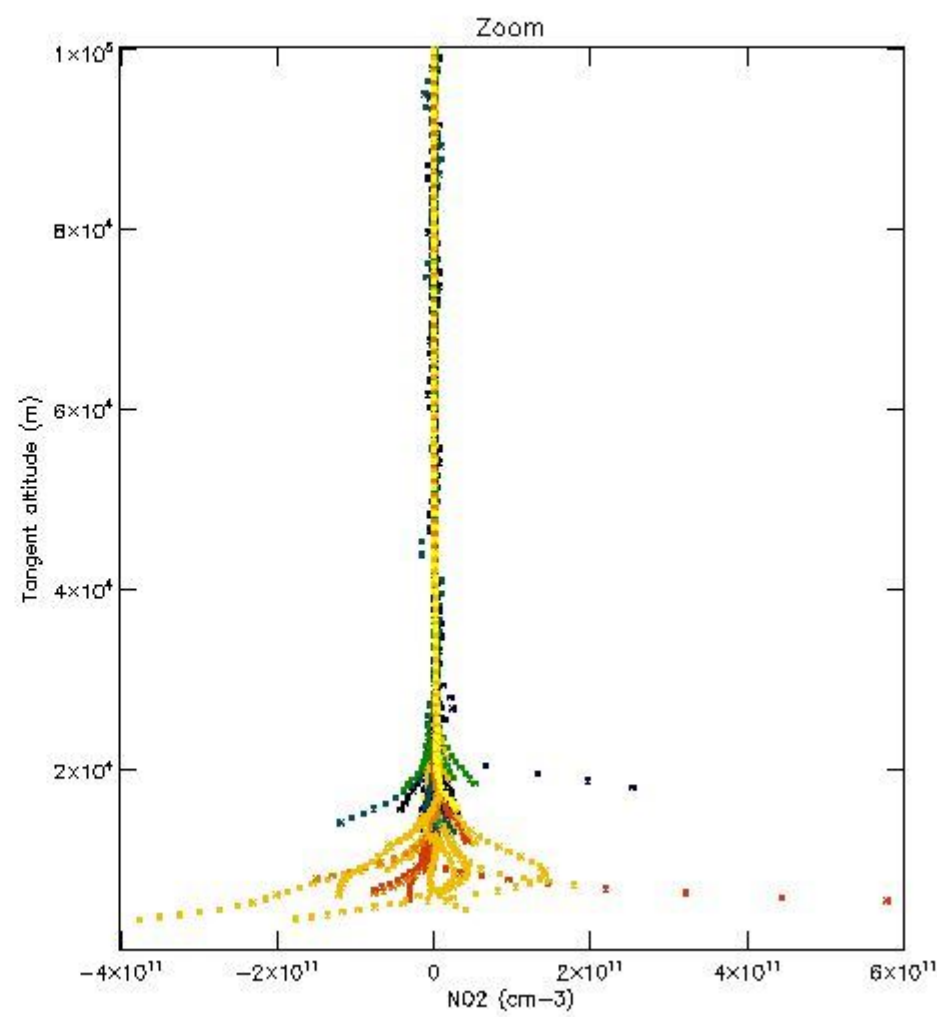
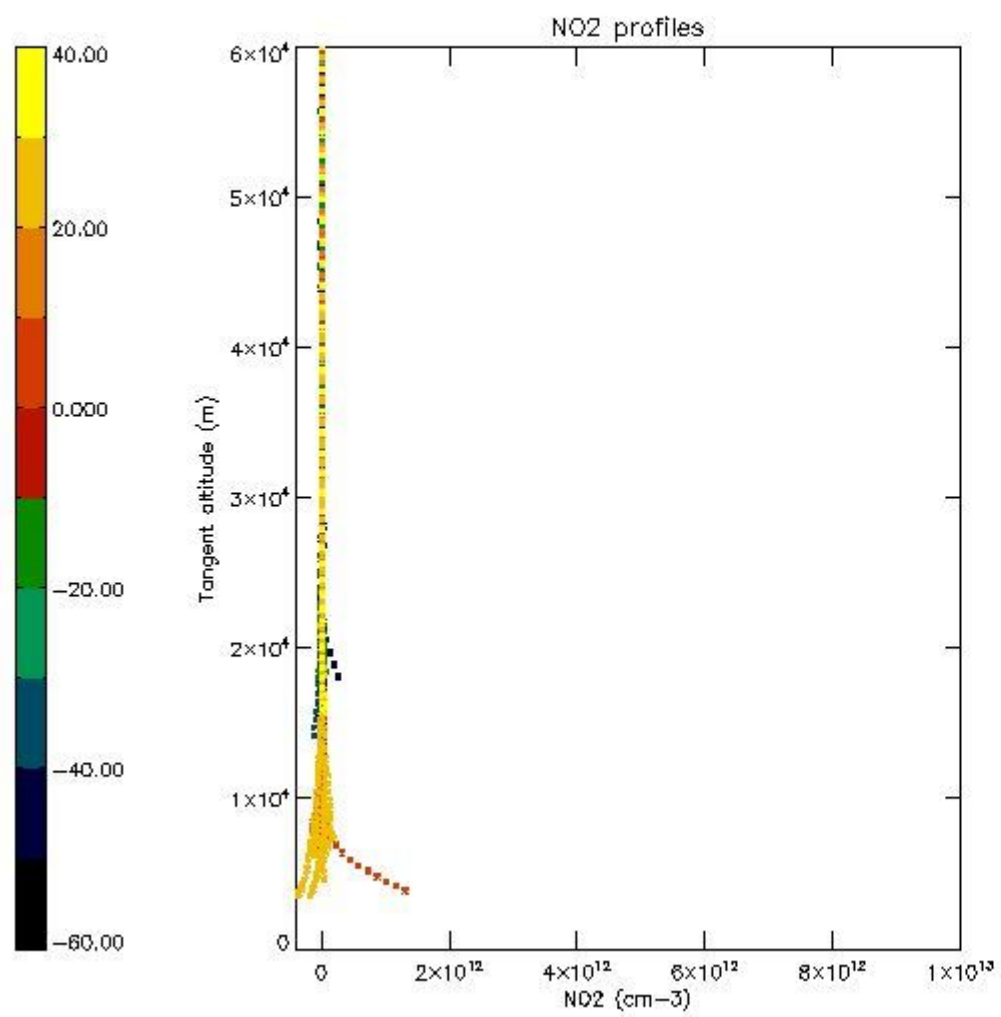
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



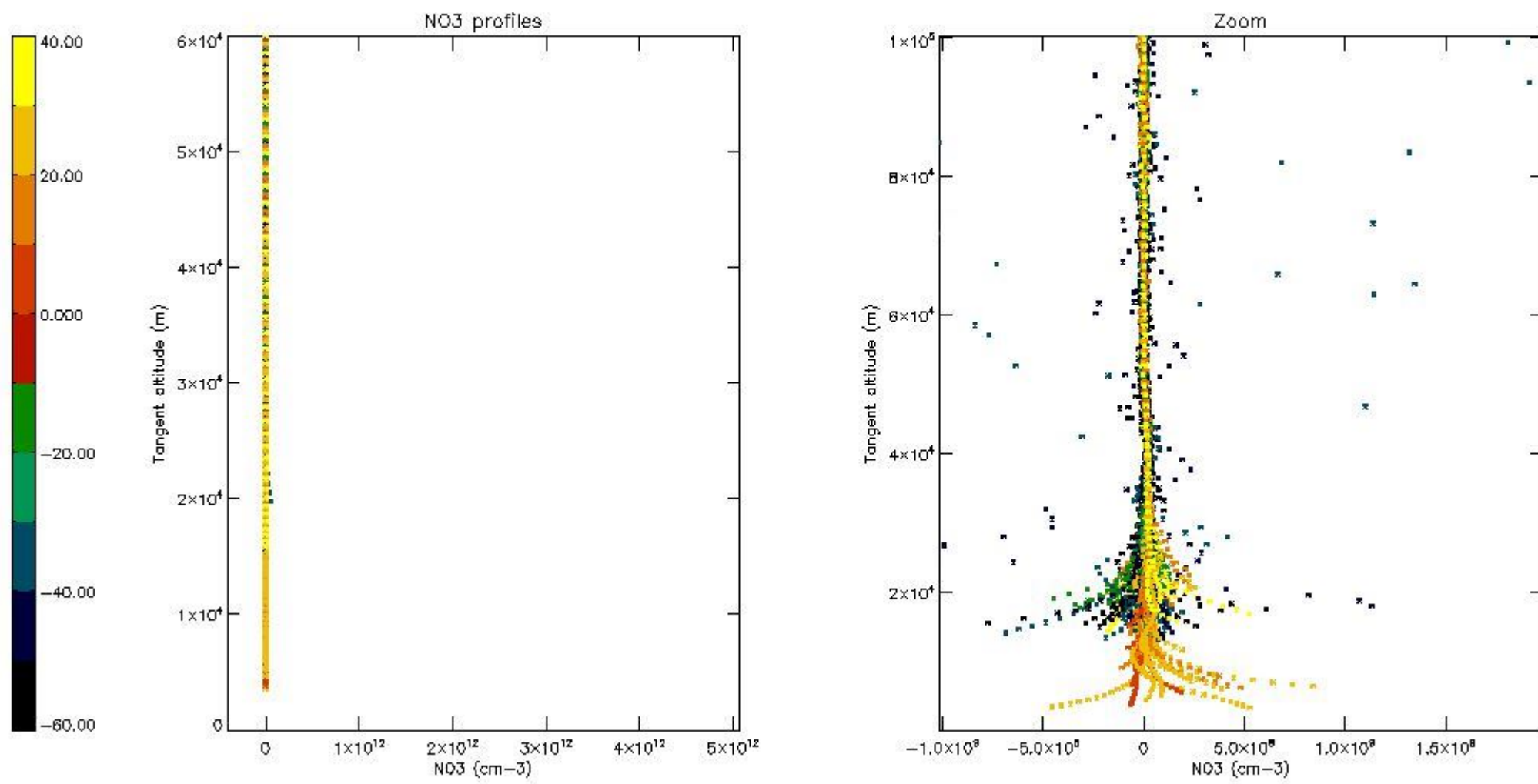
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



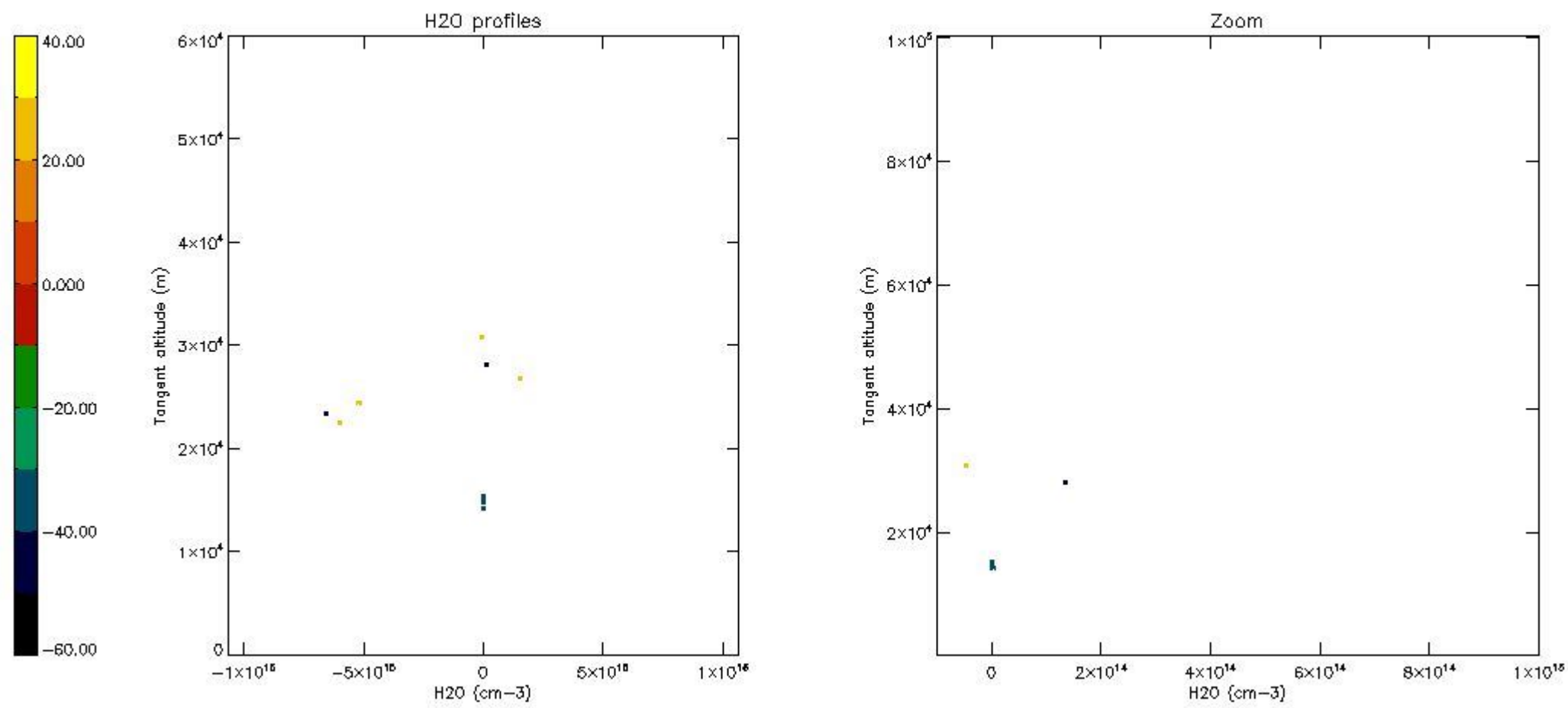
5.7 Plot NO3 profiles for all STD (dark without errors)

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	06-MAR-2007 00:06:21
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-MAR-2007 00:06:21
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-MAR-2007 00:06:21

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	22APR2013 17:00:45
Data source version	GOMOS/6.01
Start time of products	06-03-2007 (06MAR2007 00:00:00)
Stop time of products	07-03-2007 (07MAR2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	235
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

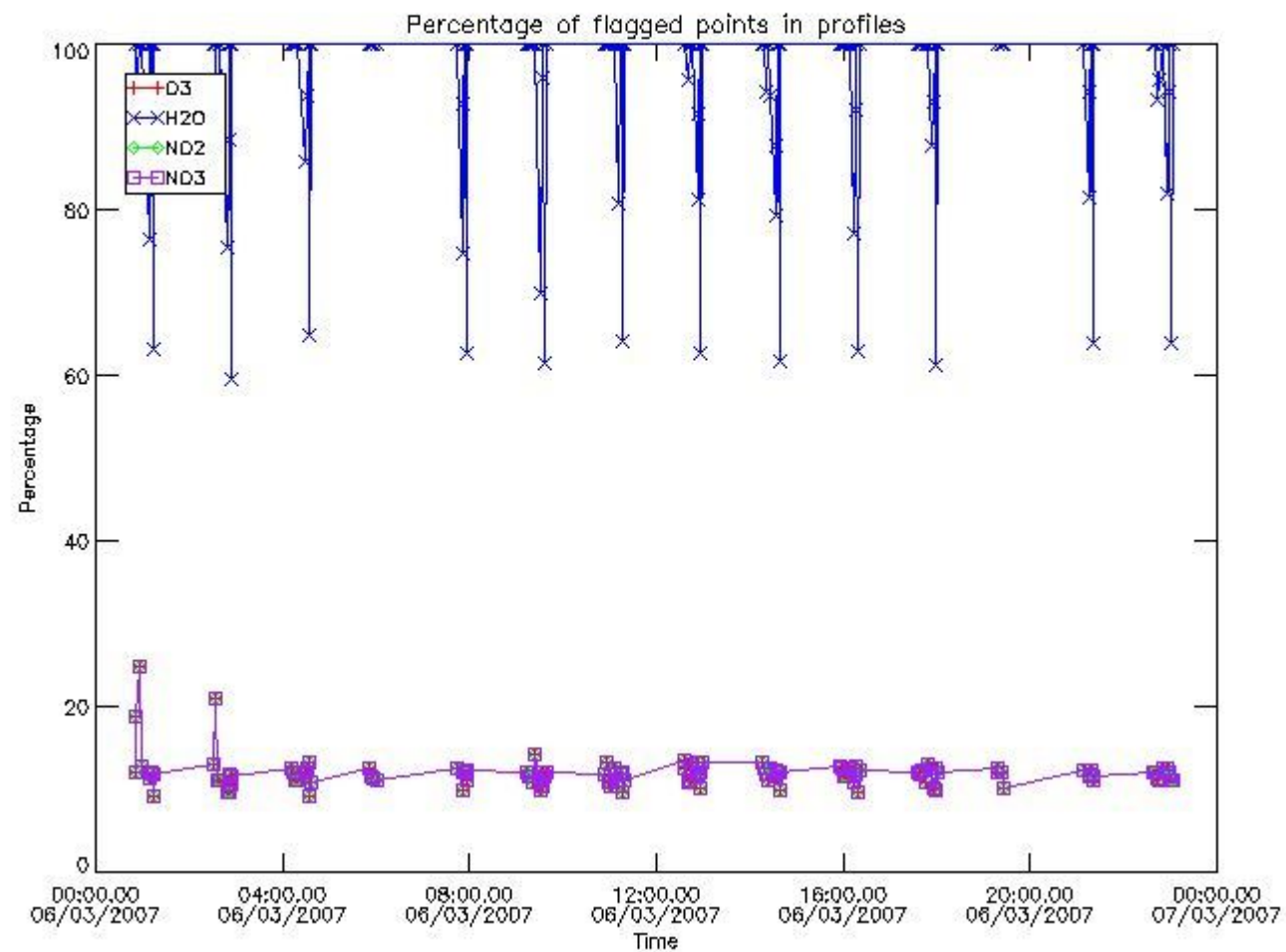
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070306_000621_000000432056_00102_26208_8241.N1	06-MAR-2007 00:06:21	Bright	42.500	174	52Psi UMa	3.0040	4400.0	85	26208	No
2	GOM_NL__2PRFIN20070306_000916_000000392056_00102_26208_8242.N1	06-MAR-2007 00:09:16	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	26208	No
3	GOM_NL__2PRFIN20070306_001040_000000412056_00102_26208_8243.N1	06-MAR-2007 00:10:40	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	26208	No
4	GOM_NL__2PRFIN20070306_001752_000000382056_00102_26208_8244.N1	06-MAR-2007 00:17:52	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	26208	No
5	GOM_NL__2PRFIN20070306_002744_000000472056_00102_26208_8245.N1	06-MAR-2007 00:27:44	Bright	46.500	69	33Gam Dra	2.2310	3800.0	93	26208	No
6	GOM_NL__2PRFIN20070306_003018_000000352056_00102_26208_8246.N1	06-MAR-2007 00:30:18	Bright	35.000	144	18Del Cyg	2.8600	11000.	70	26208	No
7	GOM_NL__2PRFIN20070306_003226_000000442056_00102_26208_8247.N1	06-MAR-2007 00:32:26	Bright	43.500	5	3Alp Lyr	0.033000	11000.	87	26208	No
8	GOM_NL__2PRFIN20070306_004023_000000422056_00102_26208_8248.N1	06-MAR-2007 00:40:23	Bright	41.500	168	17Zet Aql	2.9860	11000.	83	26208	No
9	GOM_NL__2PRFIN20070306_005020_000000422056_00102_26208_8249.N1	06-MAR-2007 00:50:20	Dark	42.000	155	41Pi Sgr	2.9000	6600.0	84	26208	No
10	GOM_NL__2PRFIN20070306_005213_000000412056_00102_26208_8250.N1	06-MAR-2007 00:52:13	Dark	40.500	57	34Sig Sgr	2.0660	26000.	81	26208	No
11	GOM_NL__2PRFIN20070306_005526_000000452056_00102_26208_8251.N1	06-MAR-2007 00:55:26	Dark	45.000	38	20Eps Sgr	1.8360	11000.	90	26208	No
12	GOM_NL__2PRFIN20070306_005832_000000442056_00102_26208_8252.N1	06-MAR-2007 00:58:32	Dark	43.500	25	35Lam Sco	1.6200	28000.	87	26208	No
13	GOM_NL__2PRFIN20070306_010831_000000452056_00103_26209_8244.N1	06-MAR-2007 01:08:31	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	26209	No
14	GOM_NL__2PRFIN20070306_010949_000000452056_00103_26209_8245.N1	06-MAR-2007 01:09:49	Dark	45.000	10	Bet Cen	0.61000	28000.	90	26209	No
15	GOM_NL__2PRFIN20070306_011142_000000422056_00103_26209_8246.N1	06-MAR-2007 01:11:42	Dark	42.000	77	Eps Cen	2.3030	28000.	84	26209	No
16	GOM_NL__2PRFIN20070306_011319_000000562056_00103_26209_8247.N1	06-MAR-2007 01:13:19	Dark	56.000	26	Gam Cru	1.6240	2900.0	112	26209	No
17	GOM_NL__2PRFIN20070306_011450_000000442056_00103_26209_8248.N1	06-MAR-2007 01:14:50	Dark	43.500	64	Gam Cen	2.2000	10600.	87	26209	No
18	GOM_NL__2PRFIN20070306_013553_000000402056_00103_26209_8249.N1	06-MAR-2007 01:35:53	Bright	40.000	22	32Alp Leo	1.3600	15200.	80	26209	No
19	GOM_NL__2PRFIN20070306_013823_000000422056_00103_26209_8250.N1	06-MAR-2007 01:38:23	Bright	41.500	51	41Gam1Leo	2.0100	4500.0	83	26209	No
20	GOM_NL__2PRFIN20070306_014656_000000422056_00103_26209_8251.N1	06-MAR-2007 01:46:56	Bright	42.000	174	52Psi UMa	3.0040	4400.0	84	26209	No
21	GOM_NL__2PRFIN20070306_014952_000000392056_00103_26209_8252.N1	06-MAR-2007 01:49:52	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	26209	No
22	GOM_NL__2PRFIN20070306_015115_000000392056_00103_26209_8253.N1	06-MAR-2007 01:51:15	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	26209	No
23	GOM_NL__2PRFIN20070306_015828_000000382056_00103_26209_8254.N1	06-MAR-2007 01:58:28	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	26209	No
24	GOM_NL__2PRFIN20070306_020820_000000492056_00103_26209_8255.N1	06-MAR-2007 02:08:20	Bright	49.000	69	33Gam Dra	2.2310	3800.0	98	26209	No
25	GOM_NL__2PRFIN20070306_021054_000000362056_00103_26209_8256.N1	06-MAR-2007 02:10:54	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	26209	No
26	GOM_NL__2PRFIN20070306_021302_000000442056_00103_26209_8257.N1	06-MAR-2007 02:13:02	Bright	44.000	5	3Alp Lyr	0.033000	11000.	88	26209	No
27	GOM_NL__2PRFIN20070306_022059_000000412056_00103_26209_8258.N1	06-MAR-2007 02:20:59	Bright	40.500	168	17Zet Aql	2.9860	11000.	81	26209	No
28	GOM_NL__2PRFIN20070306_023057_000000402056_00103_26209_8259.N1	06-MAR-2007 02:30:57	Dark	39.500	155	41Pi Sgr	2.9000	6600.0	79	26209	No
29	GOM_NL__2PRFIN20070306_023250_000000412056_00103_26209_8260.N1	06-MAR-2007 02:32:50	Dark	41.000	57	34Sig Sgr	2.0660	26000.	82	26209	No
30	GOM_NL__2PRFIN20070306_023603_000000462056_00103_26209_8261.N1	06-MAR-2007 02:36:03	Dark	46.000	38	20Eps Sgr	1.8360	11000.	92	26209	No
31	GOM_NL__2PRFIN20070306_023909_000000462056_00103_26209_8262.N1	06-MAR-2007 02:39:09	Dark	45.500	25	35Lam Sco	1.6200	28000.	91	26209	No
32	GOM_NL__2PRFIN20070306_024907_000000542056_00104_26210_8266.N1	06-MAR-2007 02:49:07	Dark	53.500	4	Alp1Cen	-0.010000	5800.0	107	26210	No
33	GOM_NL__2PRFIN20070306_025025_000000532056_00104_26210_8267.N1	06-MAR-2007 02:50:25	Dark	52.500	10	Bet Cen	0.61000	28000.	105	26210	No
34	GOM_NL__2PRFIN20070306_025219_000000432056_00104_26210_8268.N1	06-MAR-2007 02:52:19	Dark	43.000	77	Eps Cen	2.3030	28000.	86	26210	No
35	GOM_NL__2PRFIN20070306_025355_000000492056_00104_26210_8269.N1	06-MAR-2007 02:53:55	Dark	48.500	26	Gam Cru	1.6240	2900.0	97	26210	No
36	GOM_NL__2PRFIN20070306_025527_000000452056_00104_26210_8270.N1	06-MAR-2007 02:55:27	Dark	44.500	64	Gam Cen	2.2000	10600.	89	26210	No
37	GOM_NL__2PRFIN20070306_031629_000000412056_00104_26210_8271.N1	06-MAR-2007 03:16:29	Bright	40.500	22	32Alp Leo	1.3600	15200.	81	26210	No
38	GOM_NL__2PRFIN20070306_031859_000000422056_00104_26210_8272.N1	06-MAR-2007 03:18:59	Bright	42.000	51	41Gam1Leo	2.0100	4500.0	84	26210	No
39	GOM_NL__2PRFIN20070306_032732_000000432056_00104_26210_8273.N1	06-MAR-2007 03:27:32	Bright	42.500	174	52Psi UMa	3.0040	4400.0	85	26210	No
40	GOM_NL__2PRFIN20070306_033027_000000502056_00104_26210_8274.N1	06-MAR-2007 03:30:27	Bright	50.000	82	48Bet UMa	2.3650	10600.	100	26210	No
41	GOM_NL__2PRFIN20070306_033151_000000412056_00104_26210_8275.N1	06-MAR-2007 03:31:51	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	26210	No
42	GOM_NL__2PRFIN20070306_033903_000000412056_00104_26210_8276.N1	06-MAR-2007 03:39:03	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	26210	No

220	GOM_NL__2PRFIN20070306_224008_000000422056_00115_26221_8504.N1	06-MAR-2007 22:40:08	Dark	42.000	57	34Sig Sgr	2.0660	26000.	84	26221	No
221	GOM_NL__2PRFIN20070306_224323_000000452056_00115_26221_8505.N1	06-MAR-2007 22:43:23	Dark	45.000	38	20Eps Sgr	1.8360	11000.	90	26221	No
222	GOM_NL__2PRFIN20070306_224631_000000462056_00115_26221_8506.N1	06-MAR-2007 22:46:31	Dark	45.500	25	35Lam Sco	1.6200	28000.	91	26221	No
223	GOM_NL__2PRFIN20070306_224950_000000412056_00116_26222_8504.N1	06-MAR-2007 22:49:50	Dark	40.500	141	Bet Ara	2.8400	4600.0	81	26222	No
224	GOM_NL__2PRFIN20070306_225625_000000452056_00116_26222_8505.N1	06-MAR-2007 22:56:25	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	26222	No
225	GOM_NL__2PRFIN20070306_225743_000000442056_00116_26222_8506.N1	06-MAR-2007 22:57:43	Dark	44.000	10	Bet Cen	0.61000	28000.	88	26222	No
226	GOM_NL__2PRFIN20070306_225938_000000422056_00116_26222_8507.N1	06-MAR-2007 22:59:38	Dark	42.000	77	Eps Cen	2.3030	28000.	84	26222	No
227	GOM_NL__2PRFIN20070306_230112_000000462056_00116_26222_8508.N1	06-MAR-2007 23:01:12	Dark	46.000	26	Gam Cru	1.6240	2900.0	92	26222	No
228	GOM_NL__2PRFIN20070306_230244_000000462056_00116_26222_8509.N1	06-MAR-2007 23:02:44	Dark	45.500	64	Gam Cen	2.2000	10600.	91	26222	No
229	GOM_NL__2PRFIN20070306_232339_000000402056_00116_26222_8510.N1	06-MAR-2007 23:23:39	Bright	40.000	22	32Alp Leo	1.3600	15200.	80	26222	No
230	GOM_NL__2PRFIN20070306_232607_000000402056_00116_26222_8511.N1	06-MAR-2007 23:26:07	Bright	40.000	51	41Gam1Leo	2.0100	4500.0	80	26222	No
231	GOM_NL__2PRFIN20070306_233436_000000422056_00116_26222_8512.N1	06-MAR-2007 23:34:36	Bright	42.000	174	52Psi UMa	3.0040	4400.0	84	26222	No
232	GOM_NL__2PRFIN20070306_233733_000000472056_00116_26222_8513.N1	06-MAR-2007 23:37:33	Bright	47.000	82	48Bet UMa	2.3650	10600.	94	26222	No
233	GOM_NL__2PRFIN20070306_233858_000000402056_00116_26222_8514.N1	06-MAR-2007 23:38:58	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	26222	No
234	GOM_NL__2PRFIN20070306_234610_000000372056_00116_26222_8515.N1	06-MAR-2007 23:46:10	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	26222	No
235	GOM_NL__2PRFIN20070306_235842_000000362056_00116_26222_8516.N1	06-MAR-2007 23:58:42	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	26222	No

3. Quality information per product

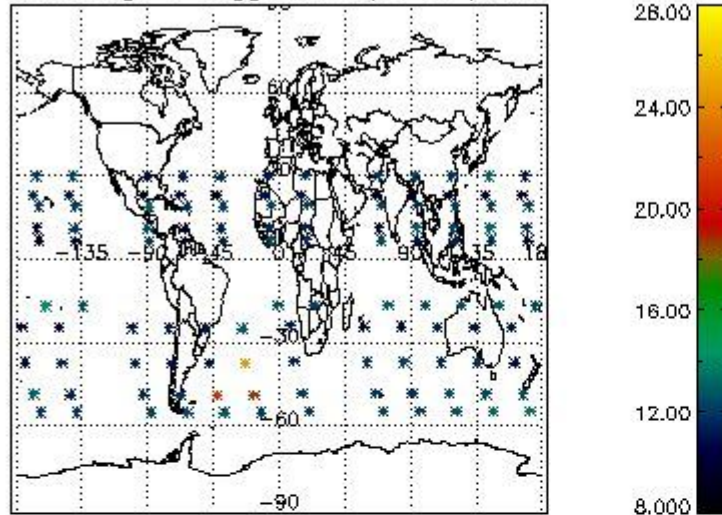
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

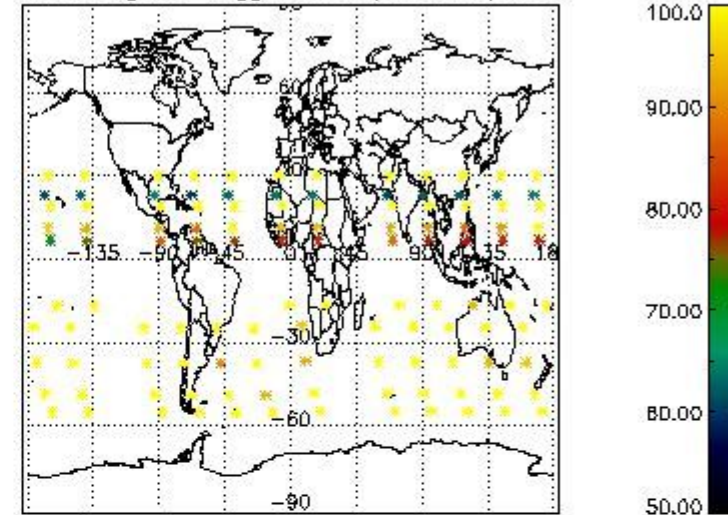


3.2 Plot quality information per product (world map)

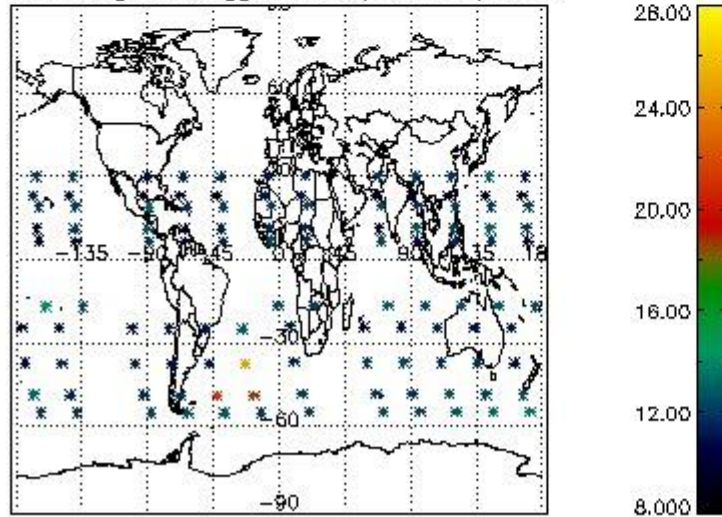
Percentage of flagged data per O3 profile



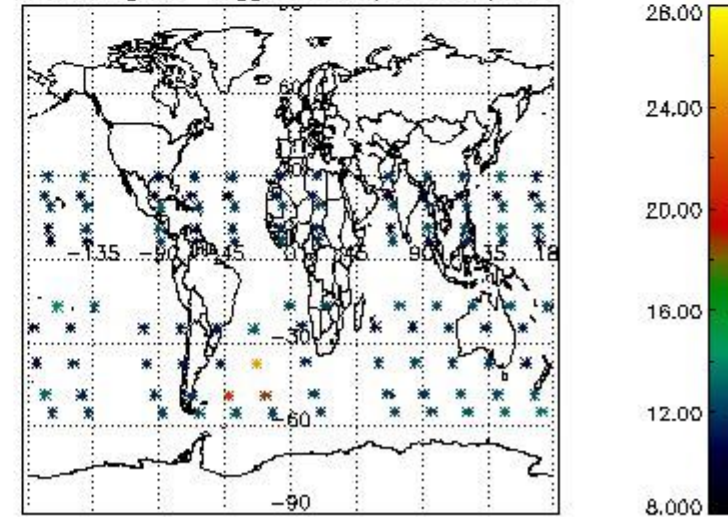
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

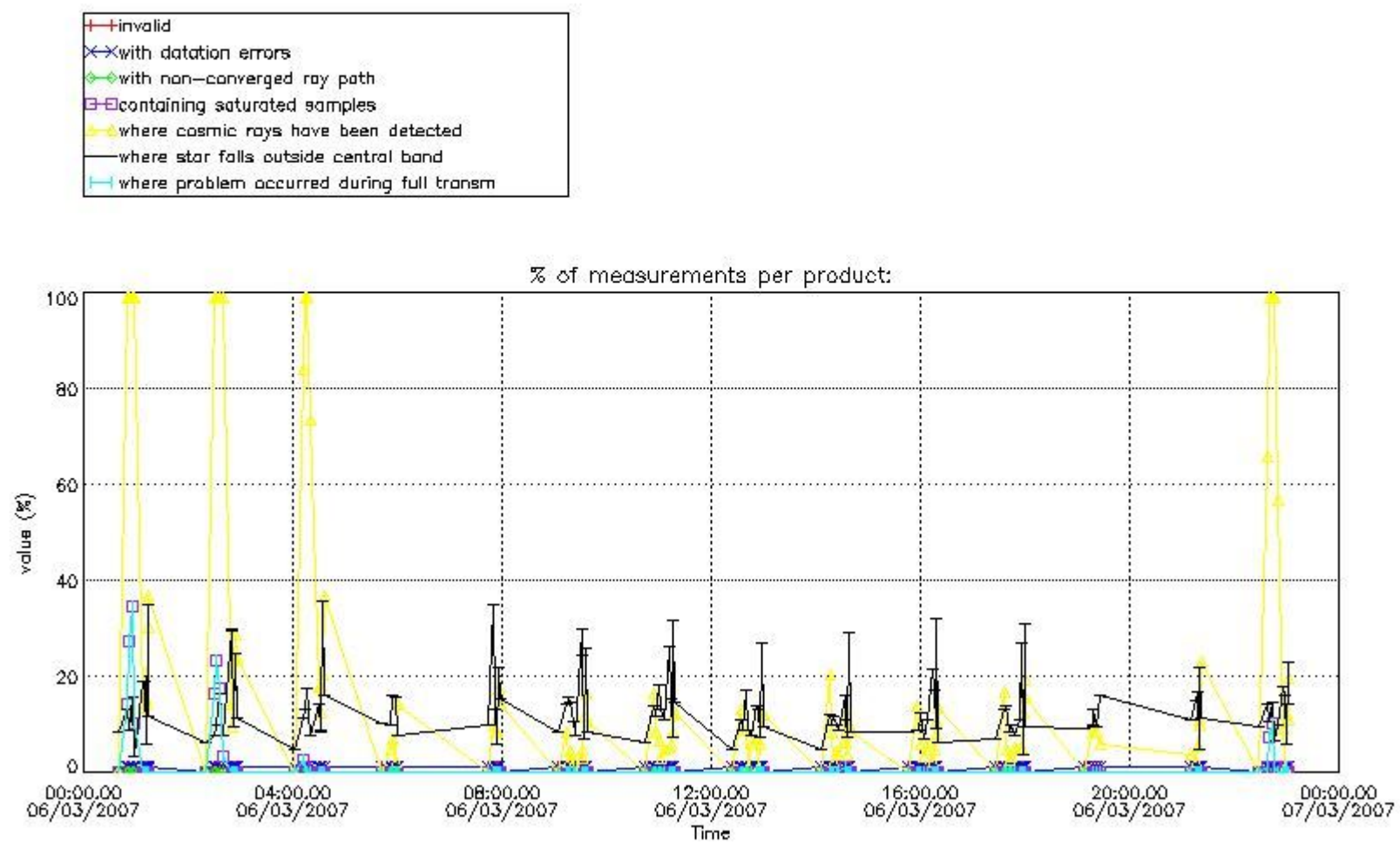


4. Level 1 quality information per product

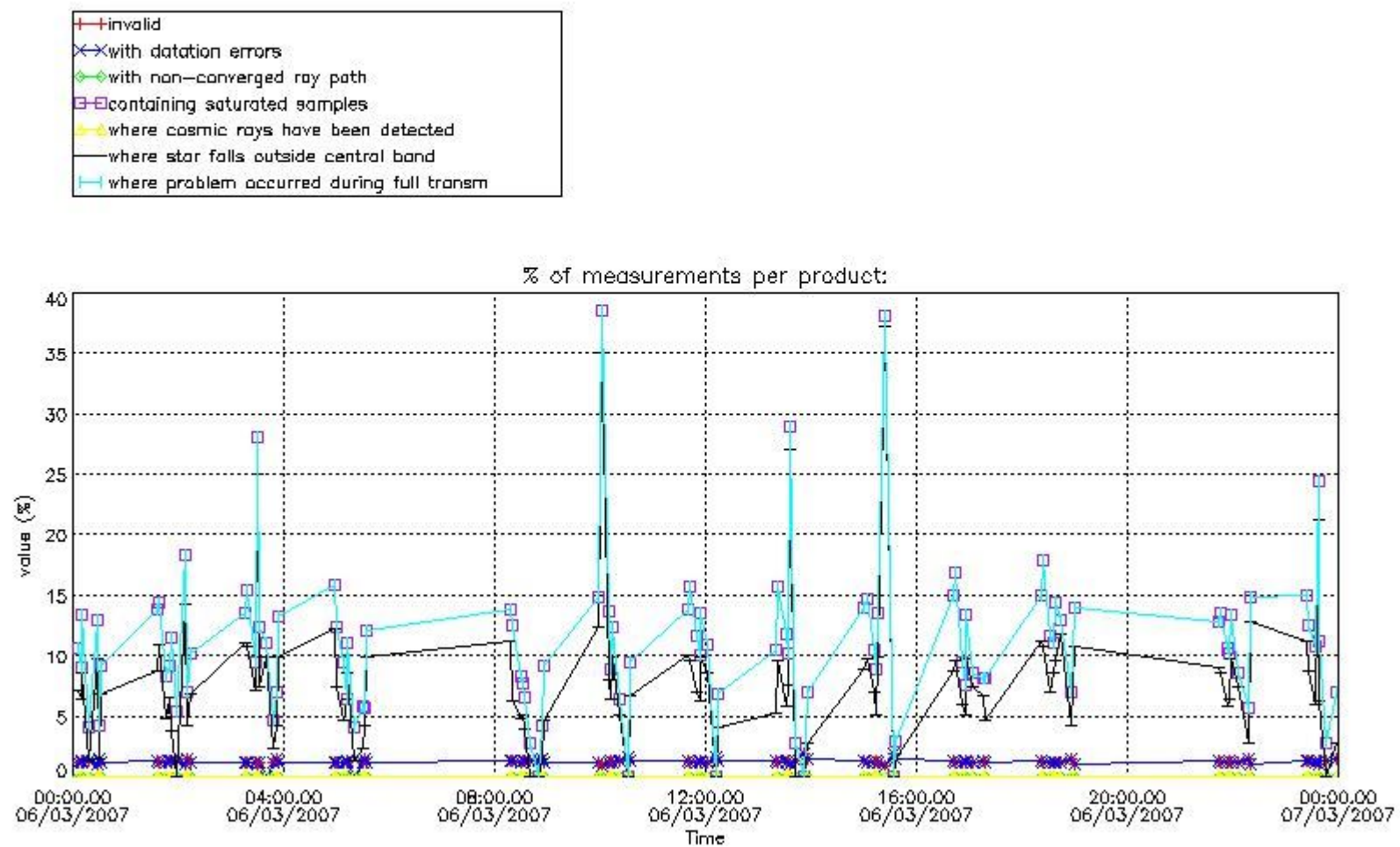
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



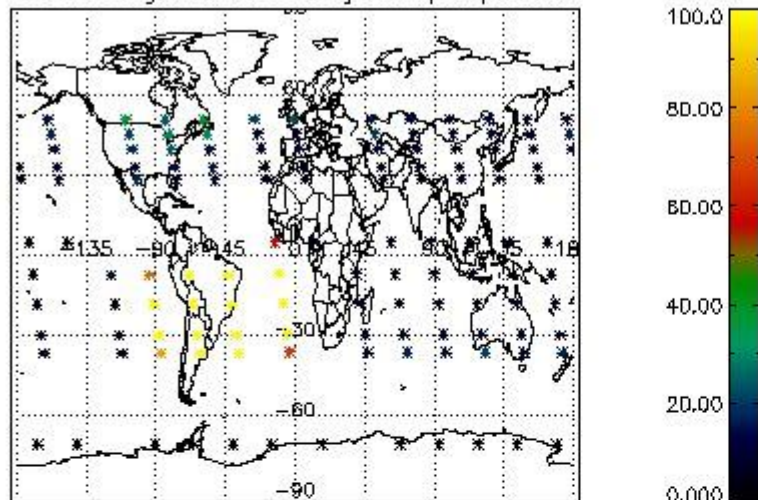
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



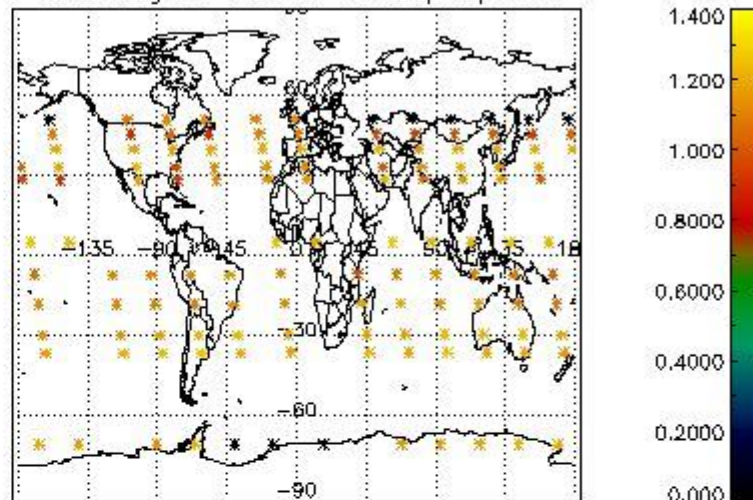
4.2 Plot quality information per product coming from level 1b processing (world map)

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

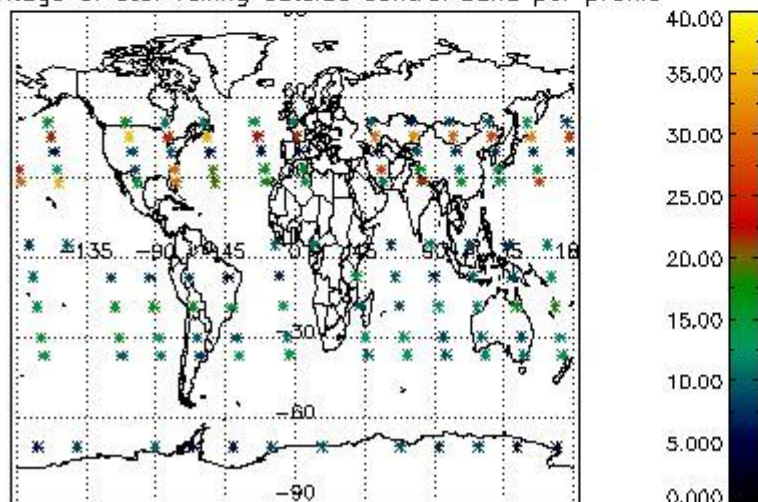
Percentage of cosmic ray hits per profile



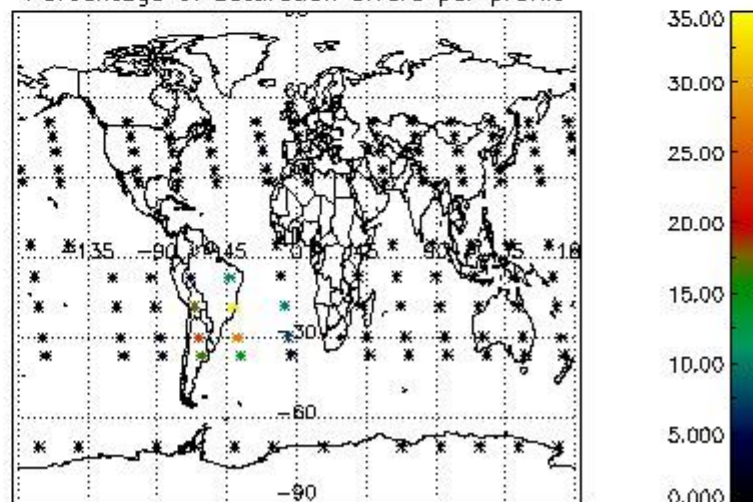
Percentage of datation errors per profile



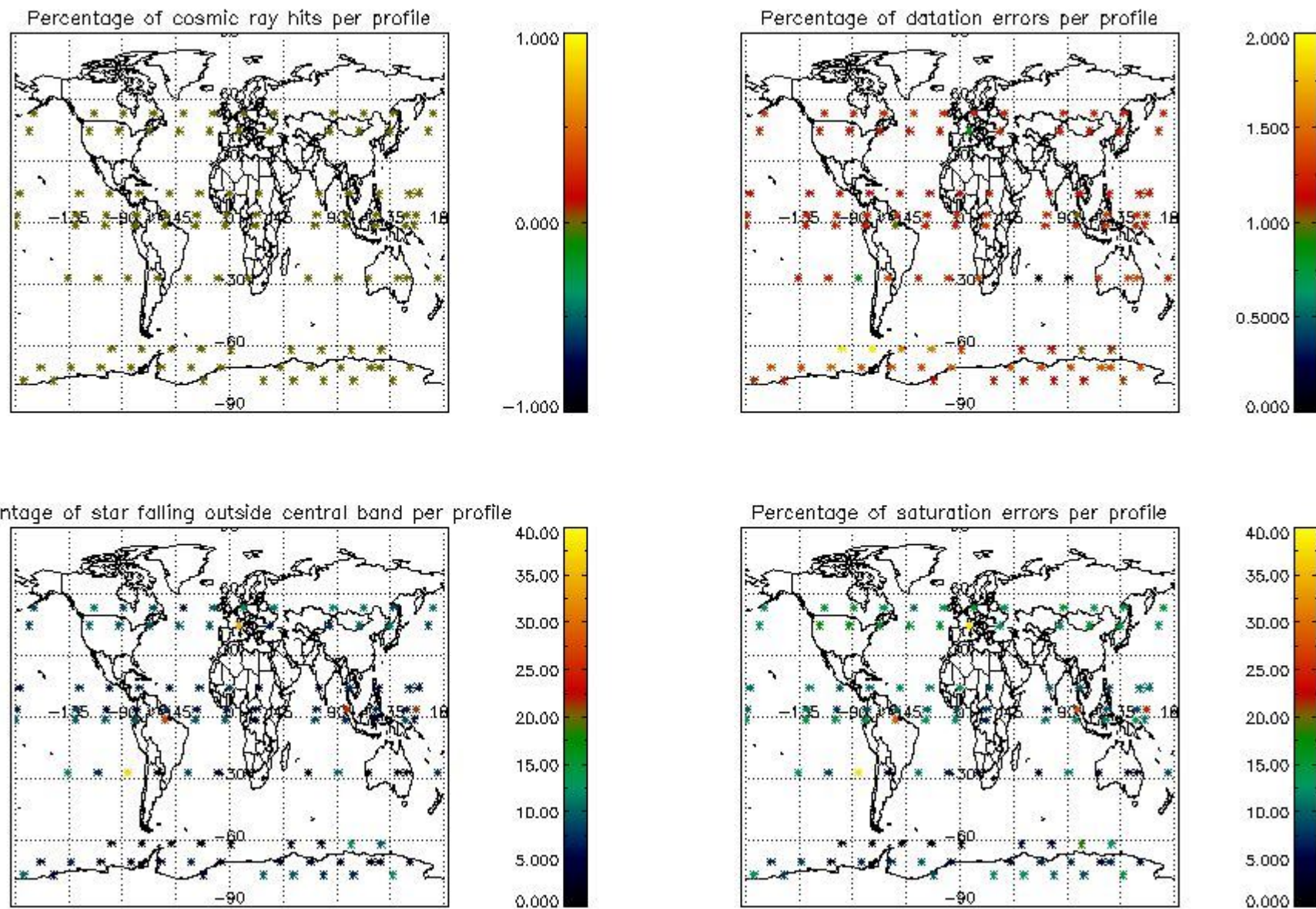
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

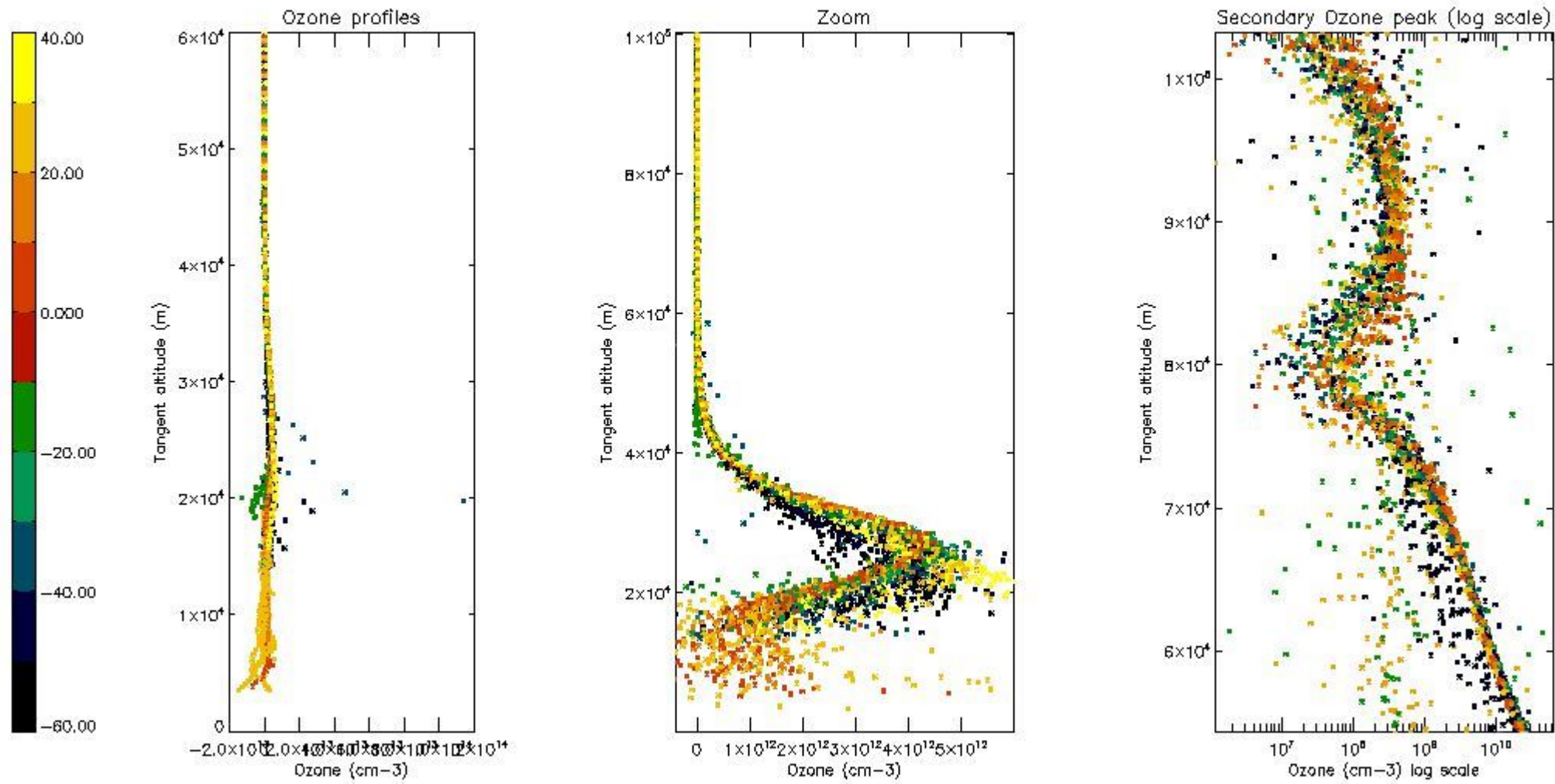
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	53
STD < 20	30

STD < 10	23
STD < 5	18

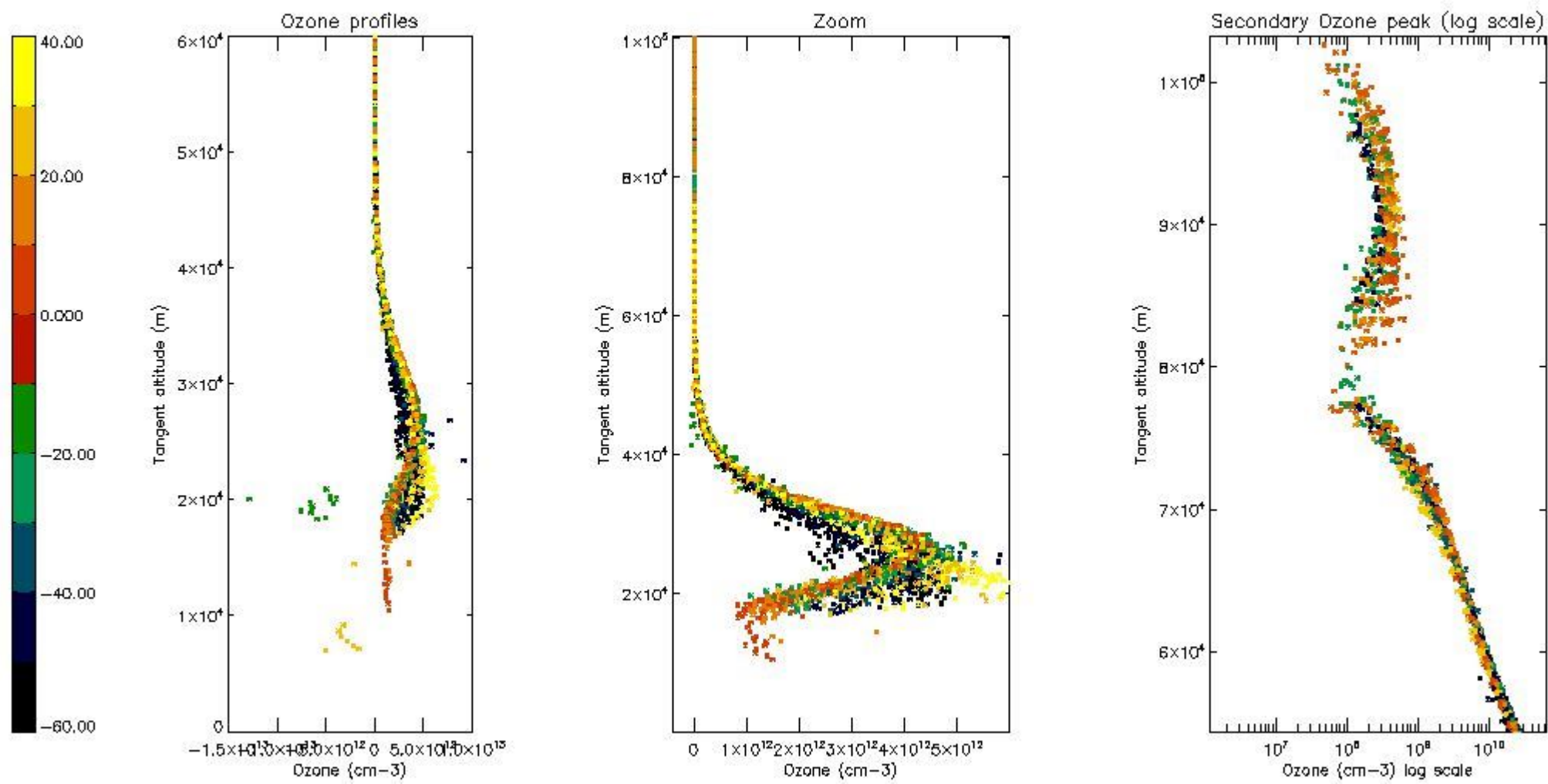
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



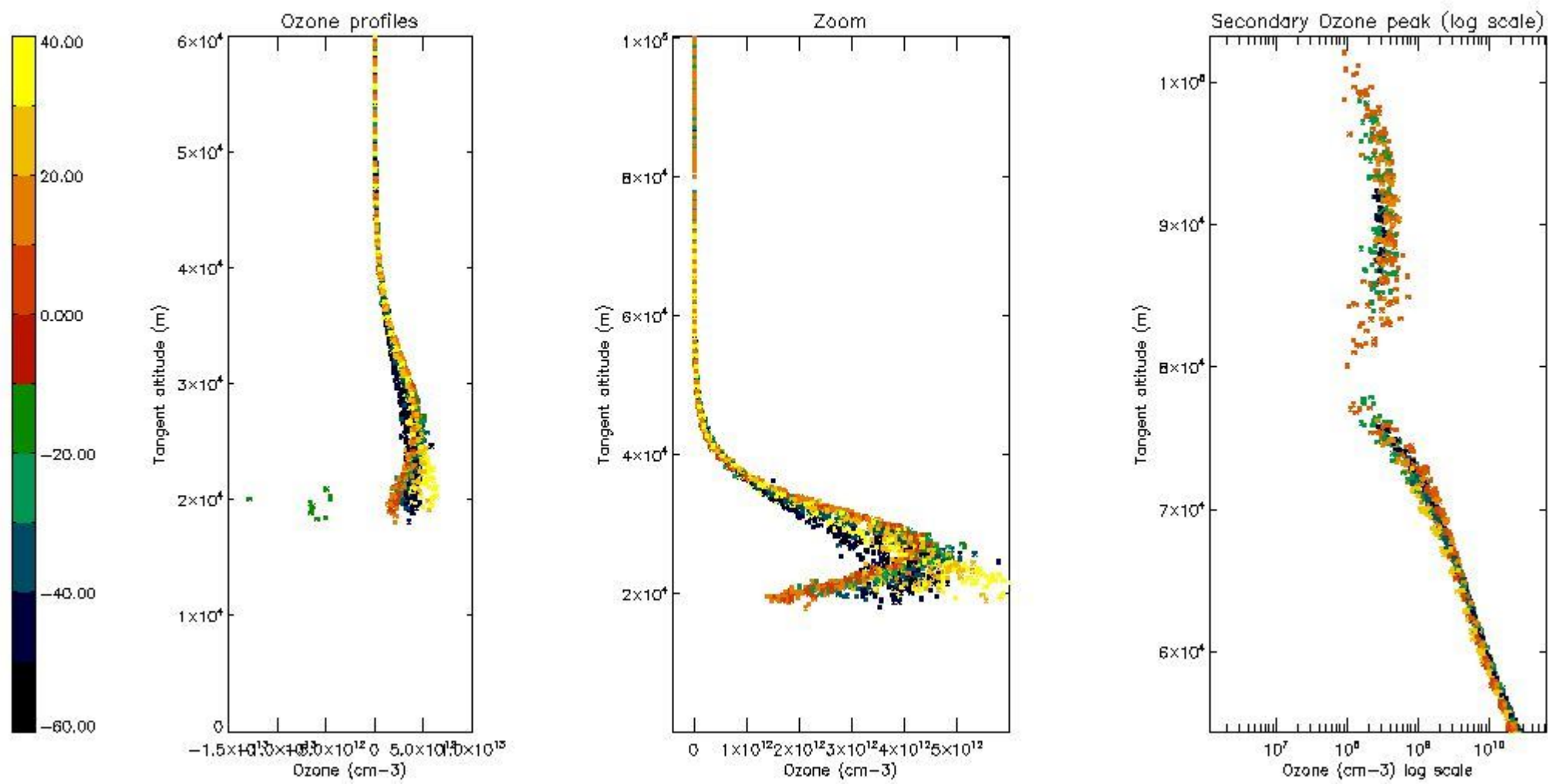
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



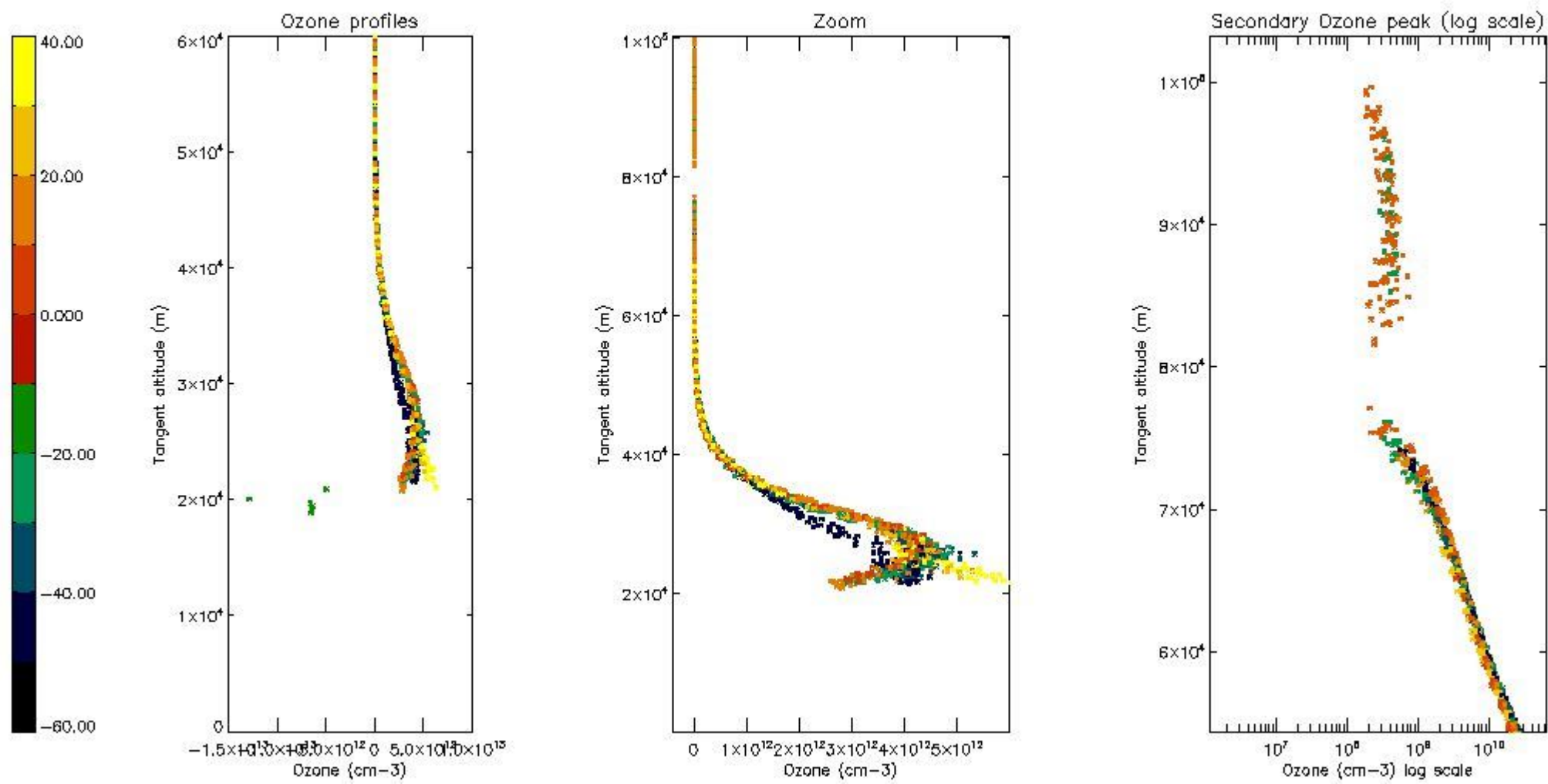
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



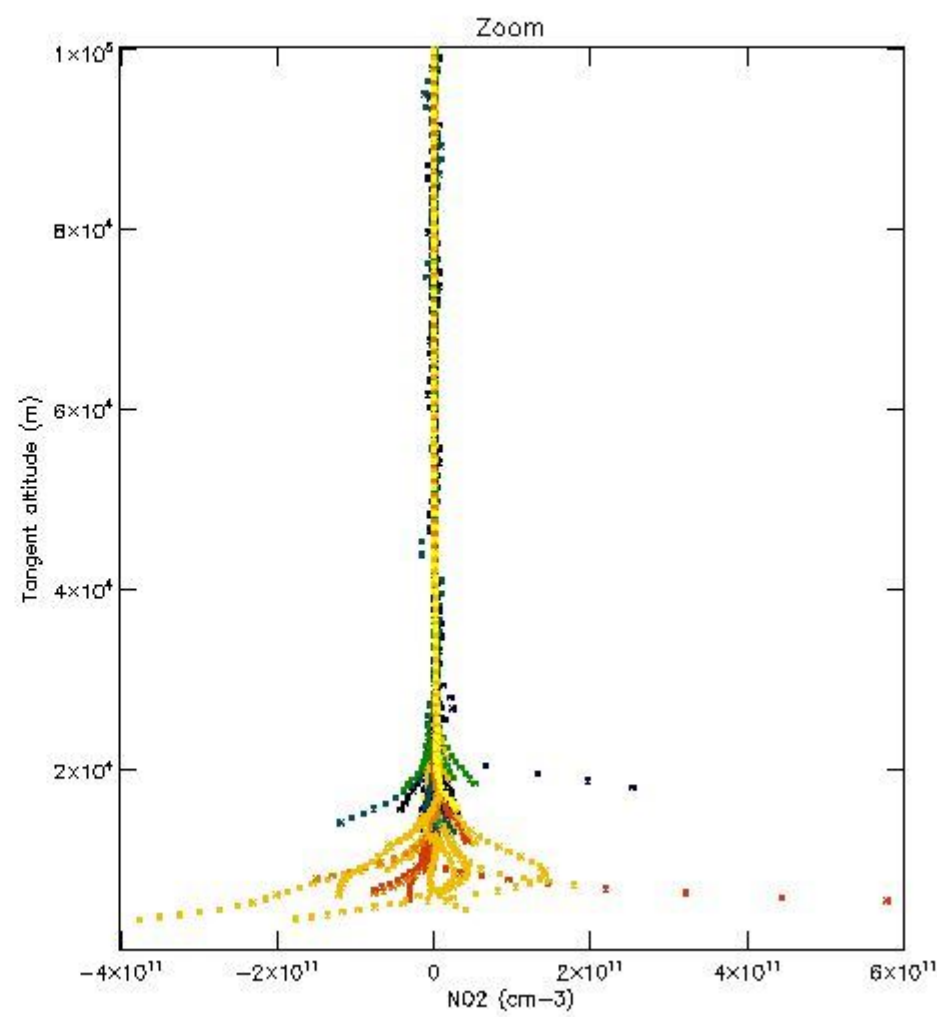
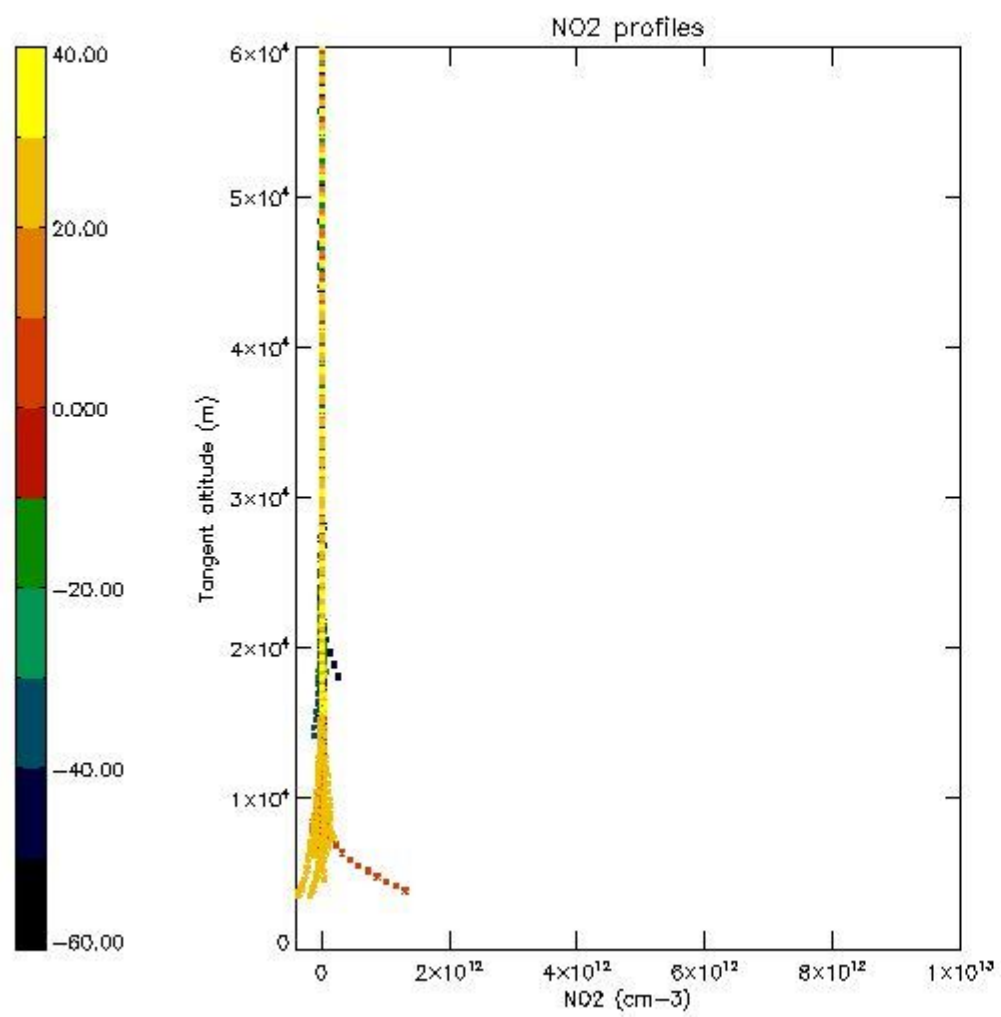
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



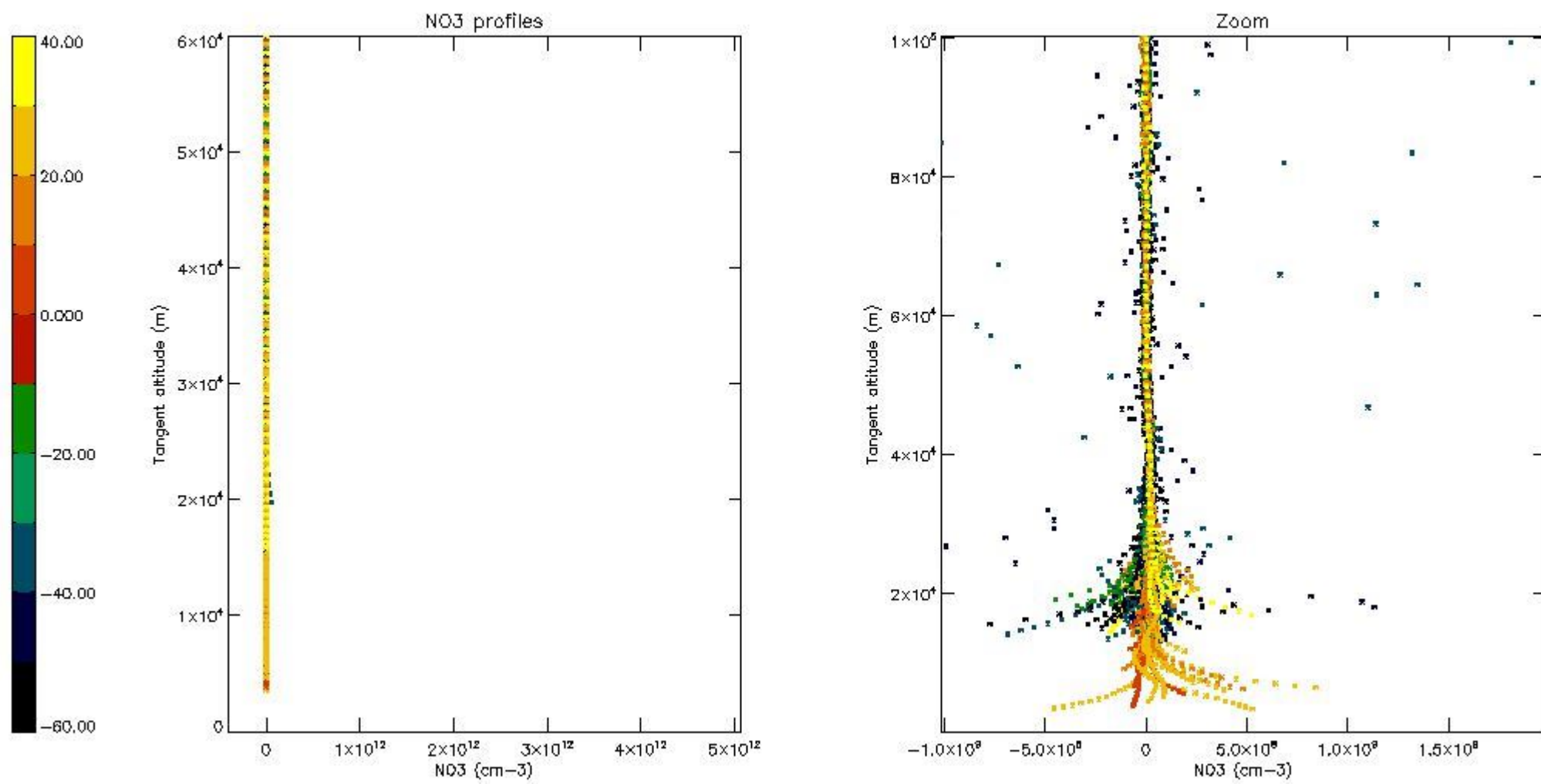
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



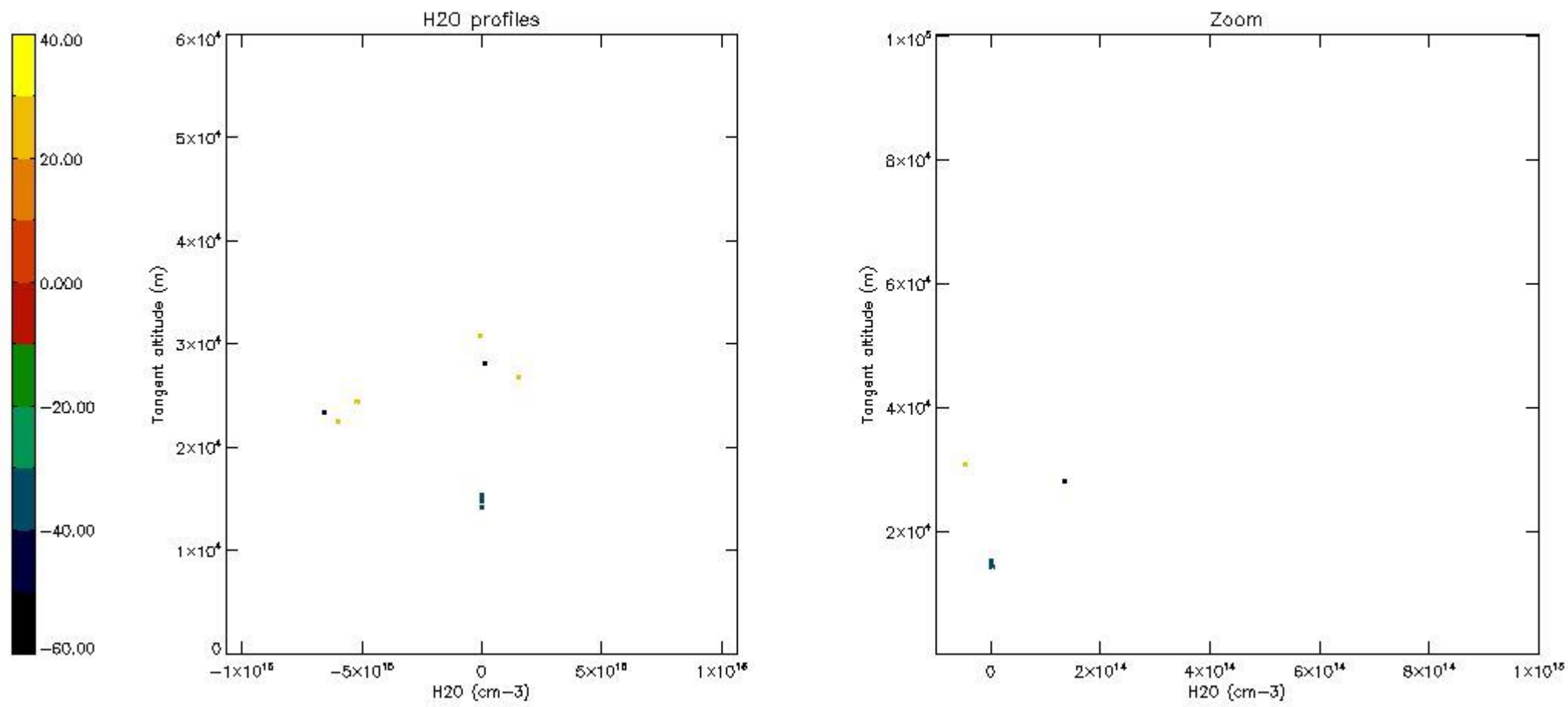
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

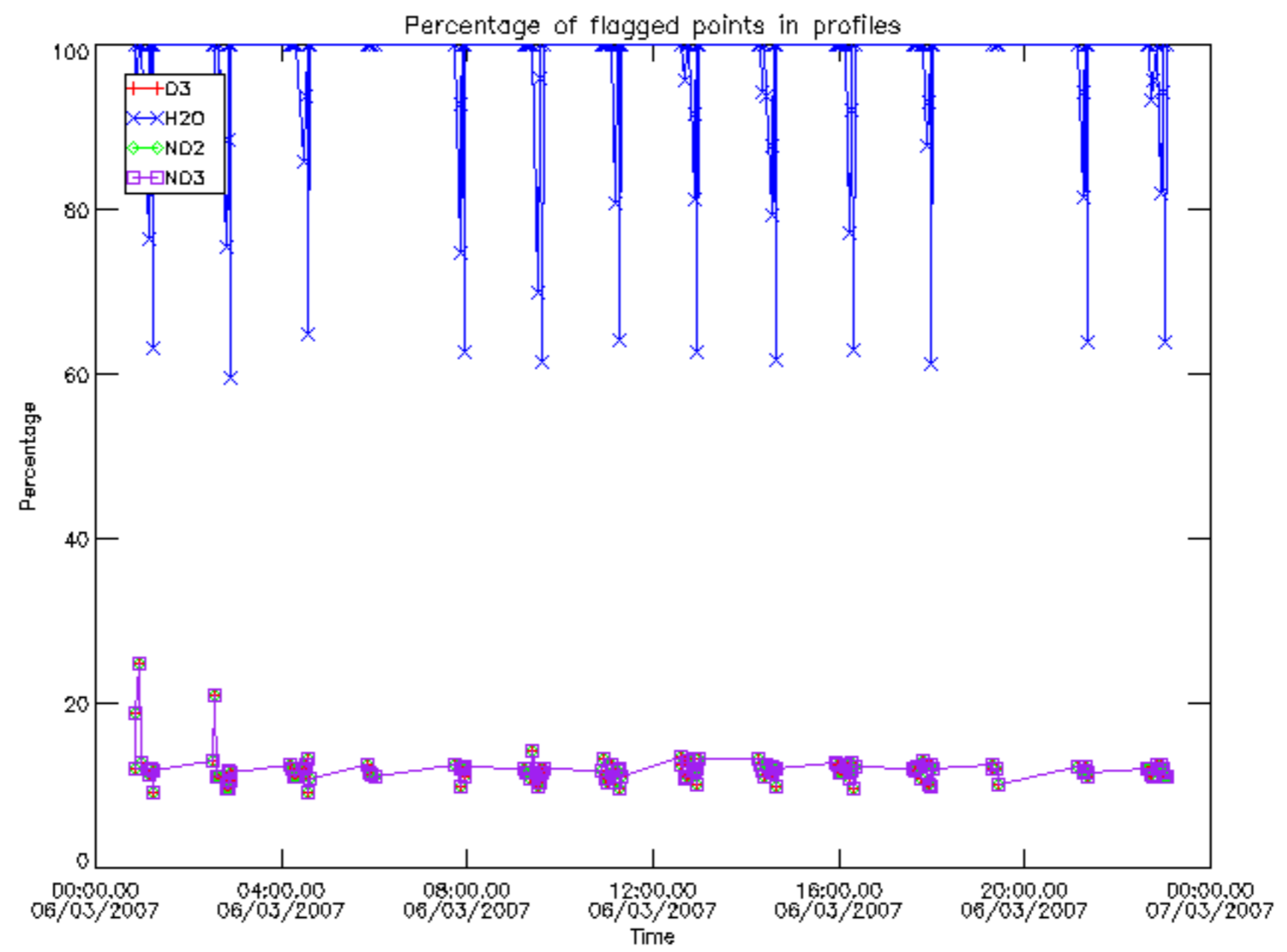
The colorbar represents the latitude.



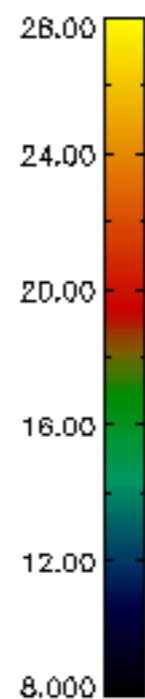
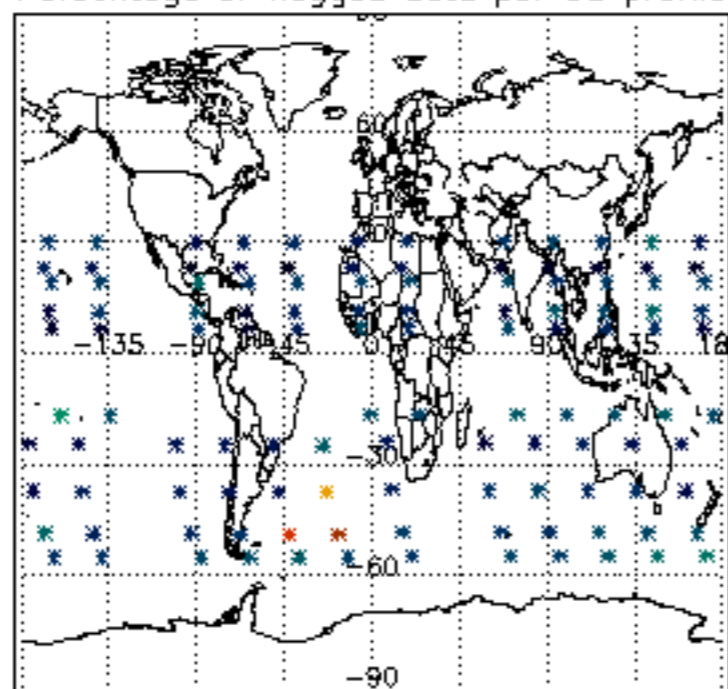
6. Auxiliary Data Files used for the production reported in section 2

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.

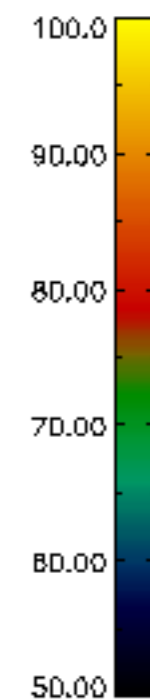
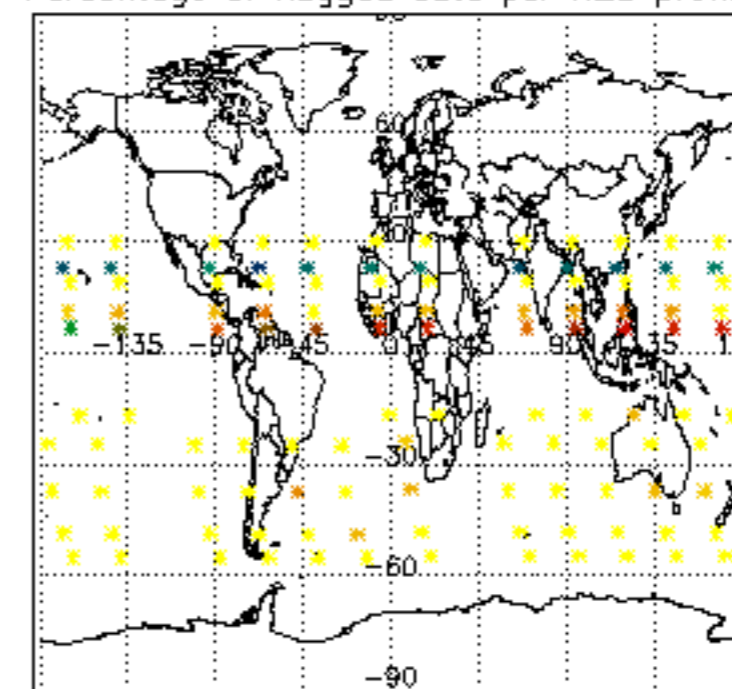
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	06-MAR-2007 00:06:21
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-MAR-2007 00:06:21
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-MAR-2007 00:06:21



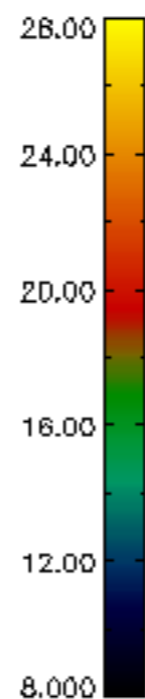
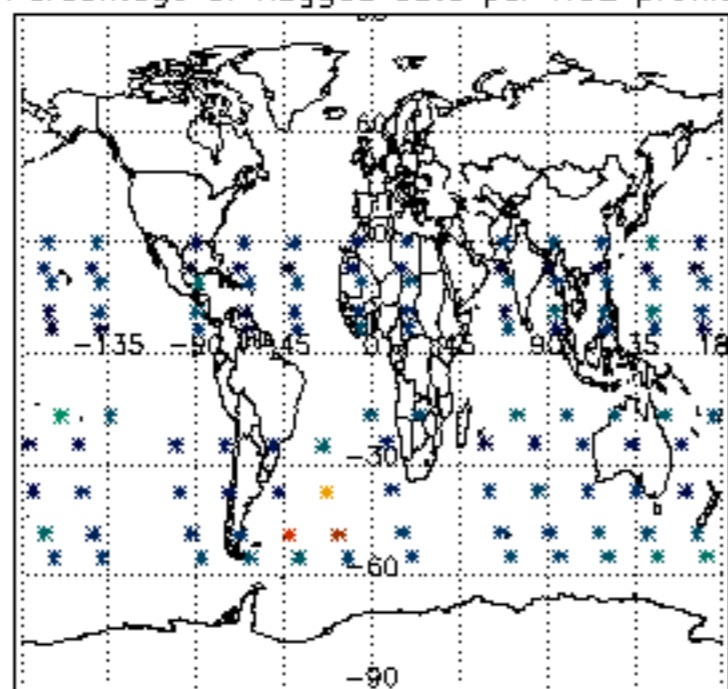
Percentage of flagged data per D3 profile



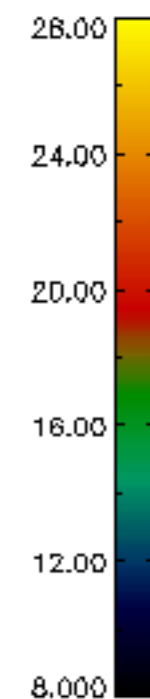
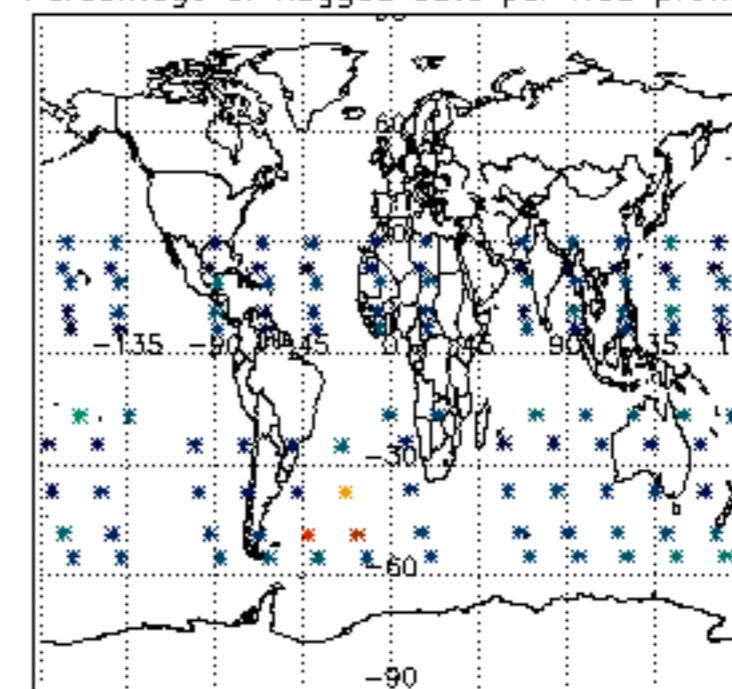
Percentage of flagged data per H2O profile

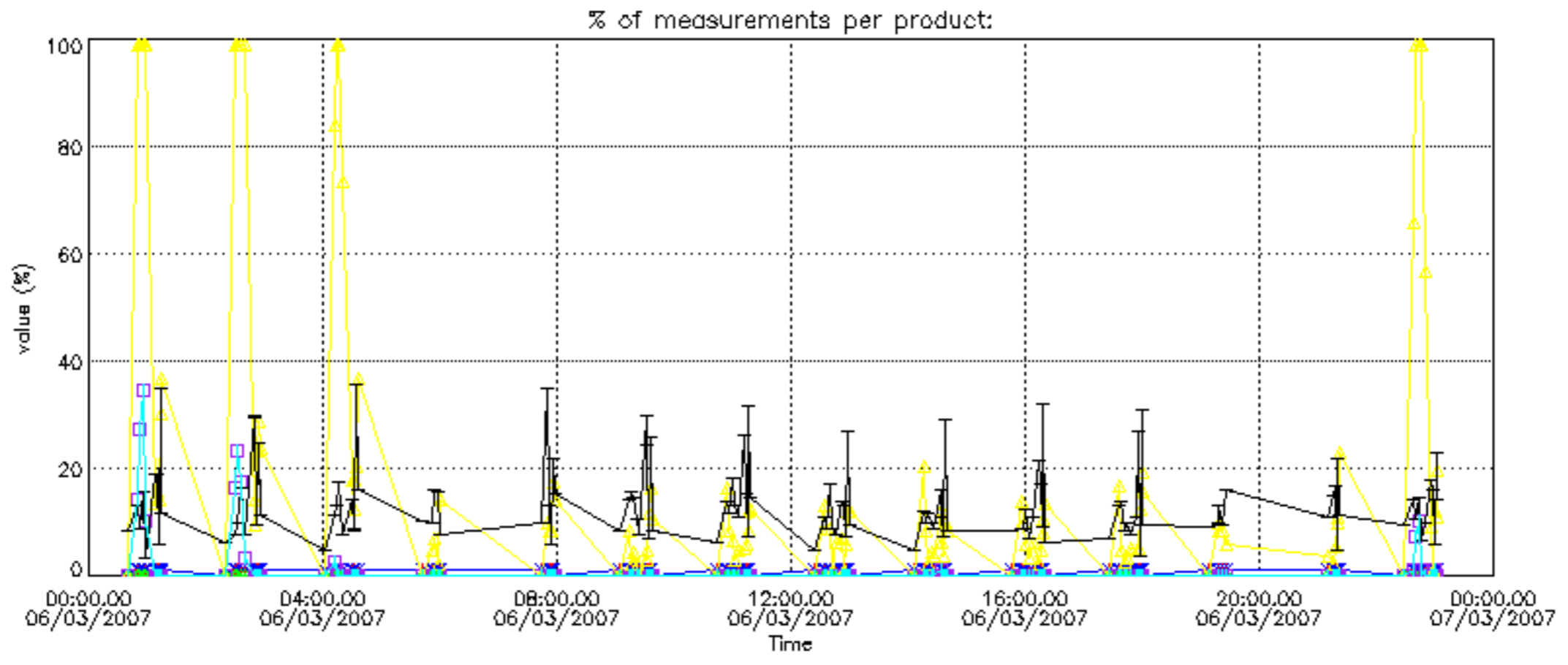


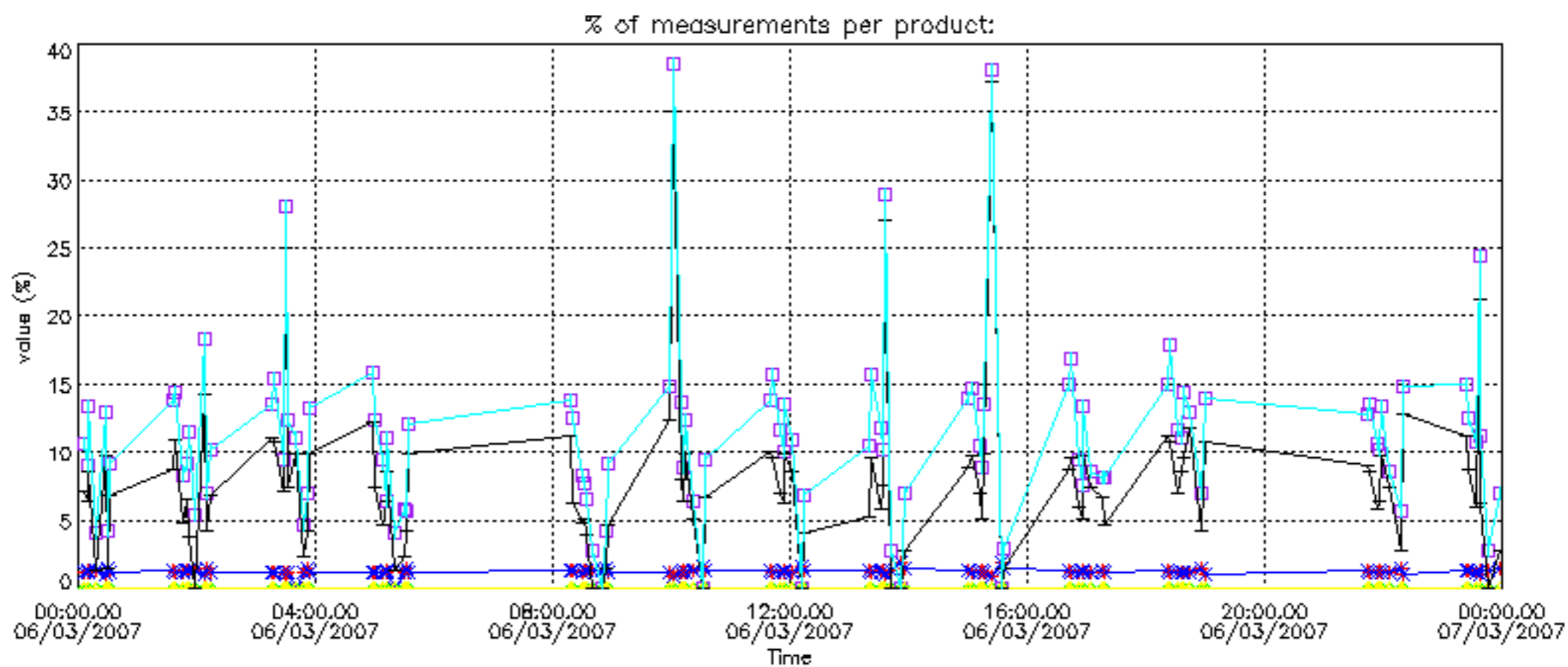
Percentage of flagged data per NO2 profile



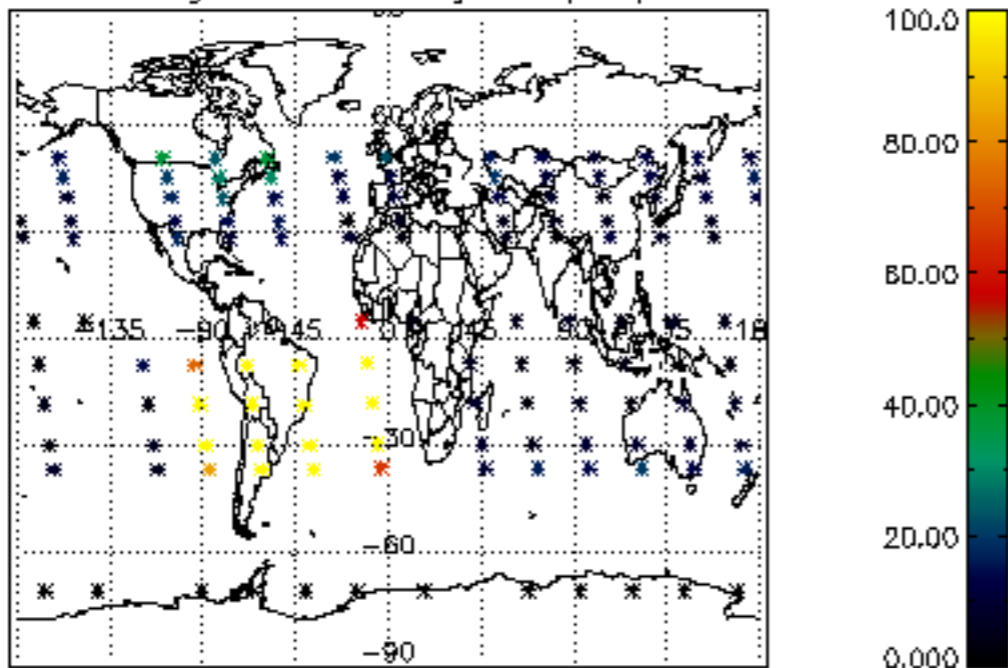
Percentage of flagged data per NO3 profile



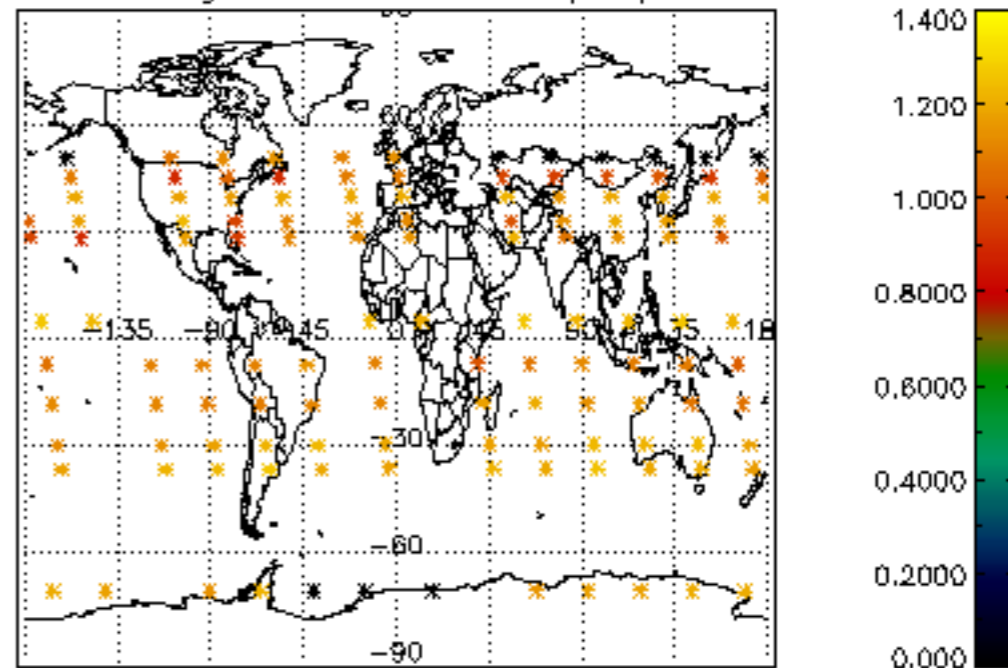




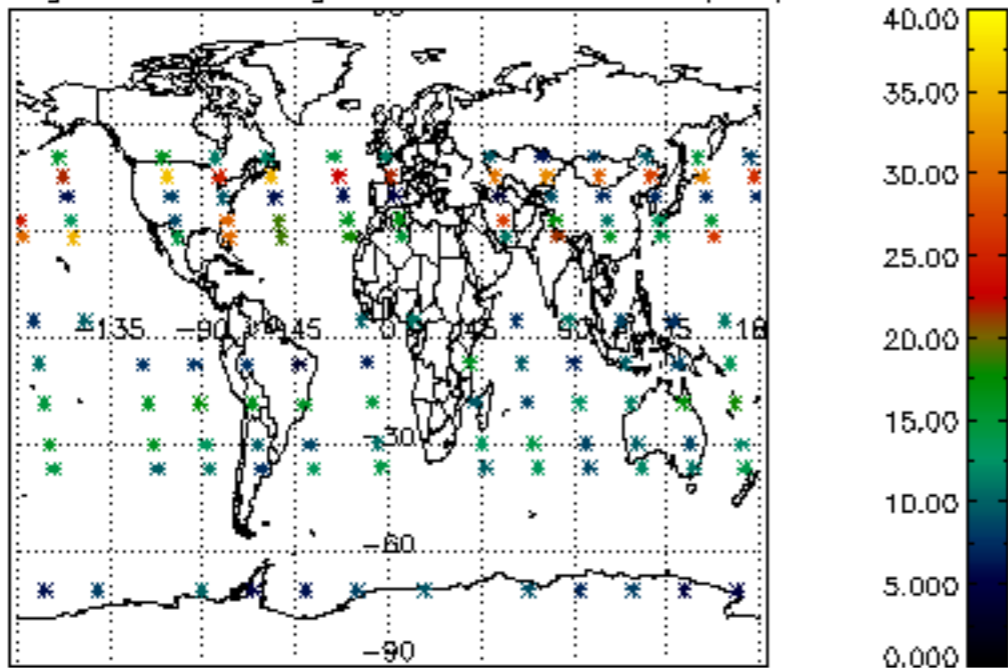
Percentage of cosmic ray hits per profile



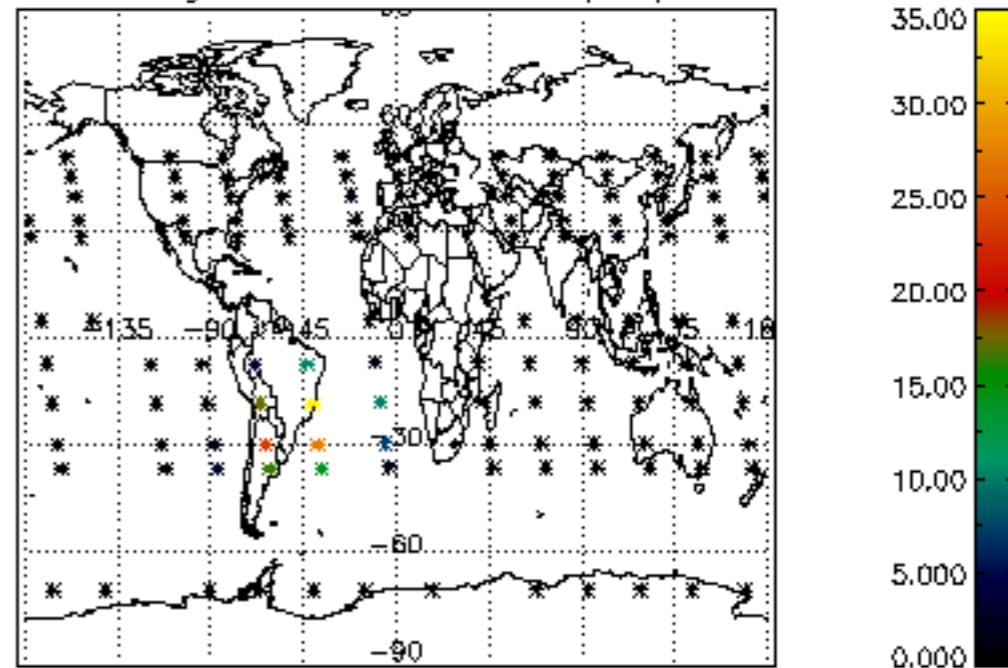
Percentage of datation errors per profile



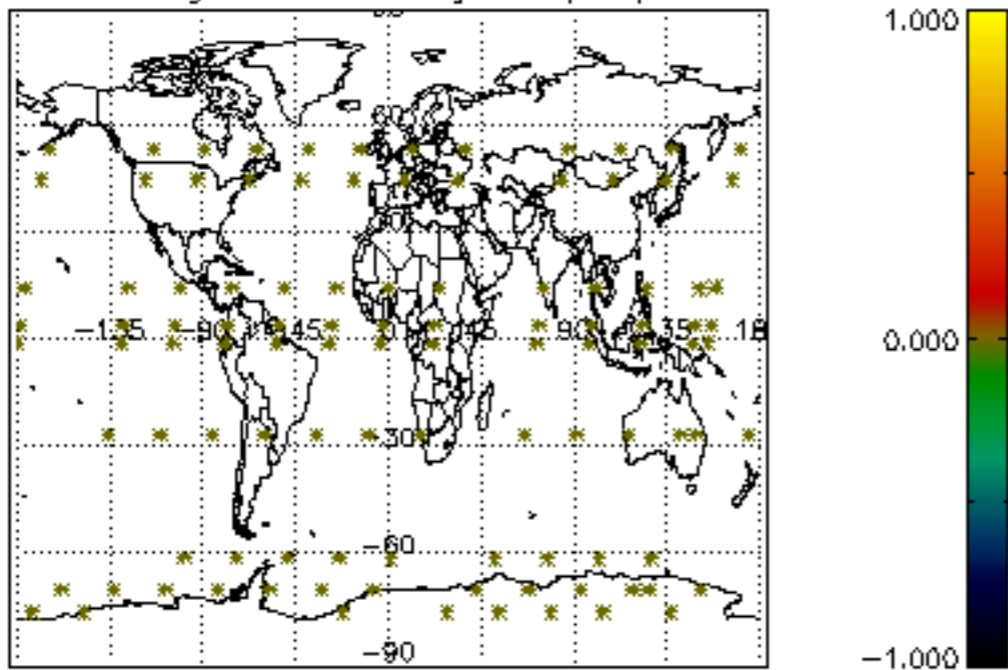
Percentage of star falling outside central band per profile



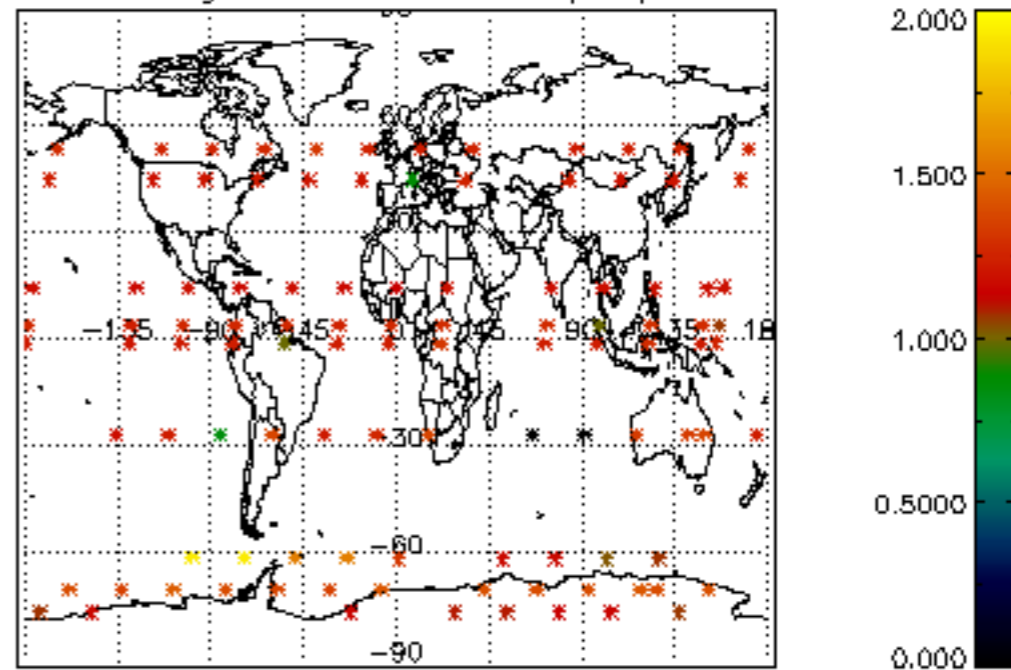
Percentage of saturation errors per profile



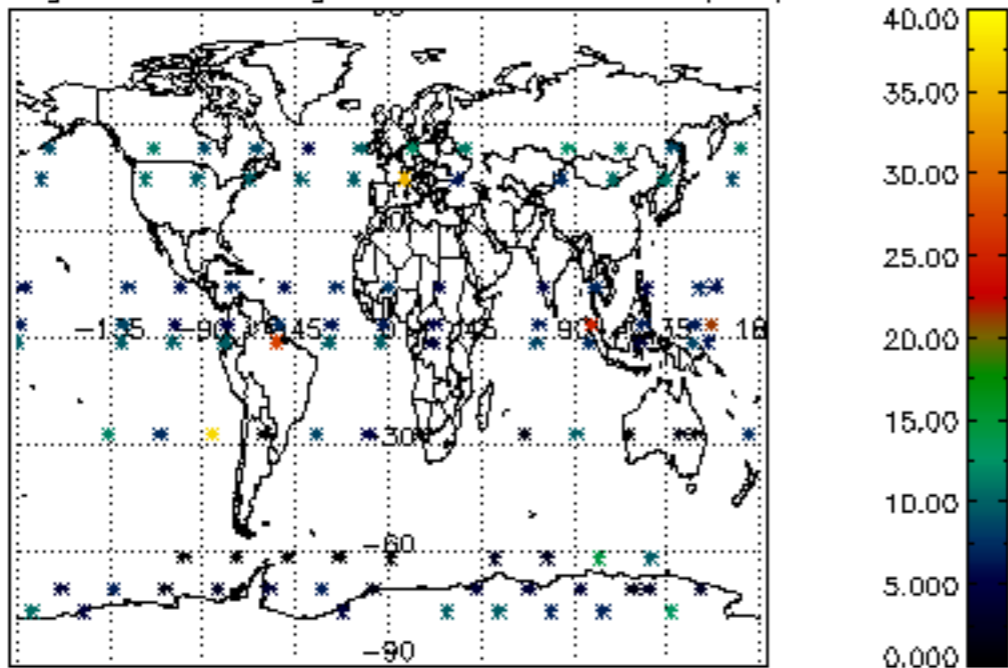
Percentage of cosmic ray hits per profile



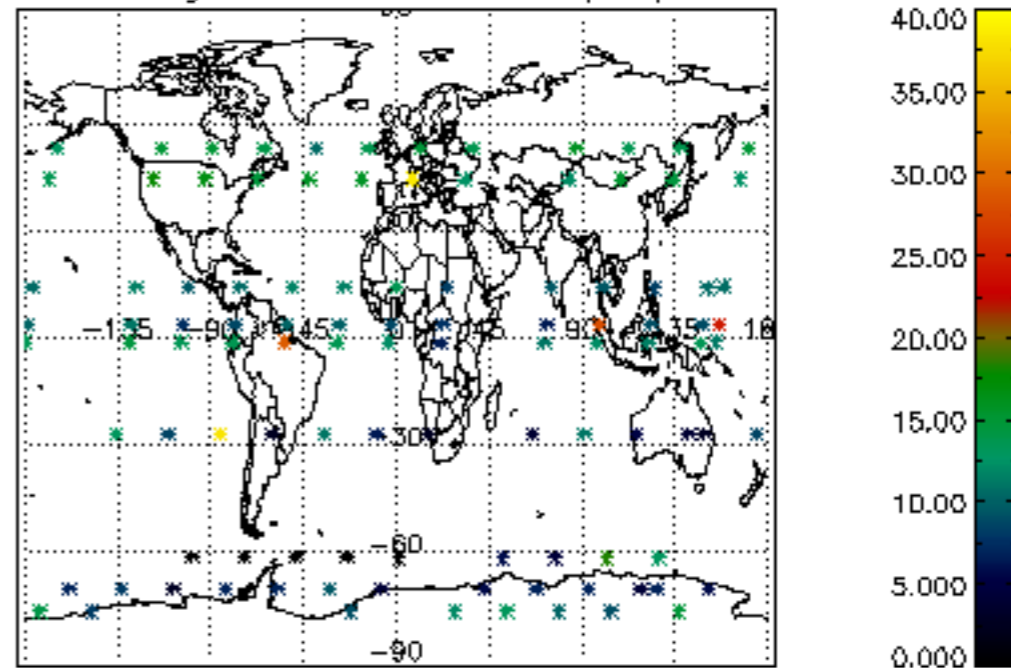
Percentage of datation errors per profile

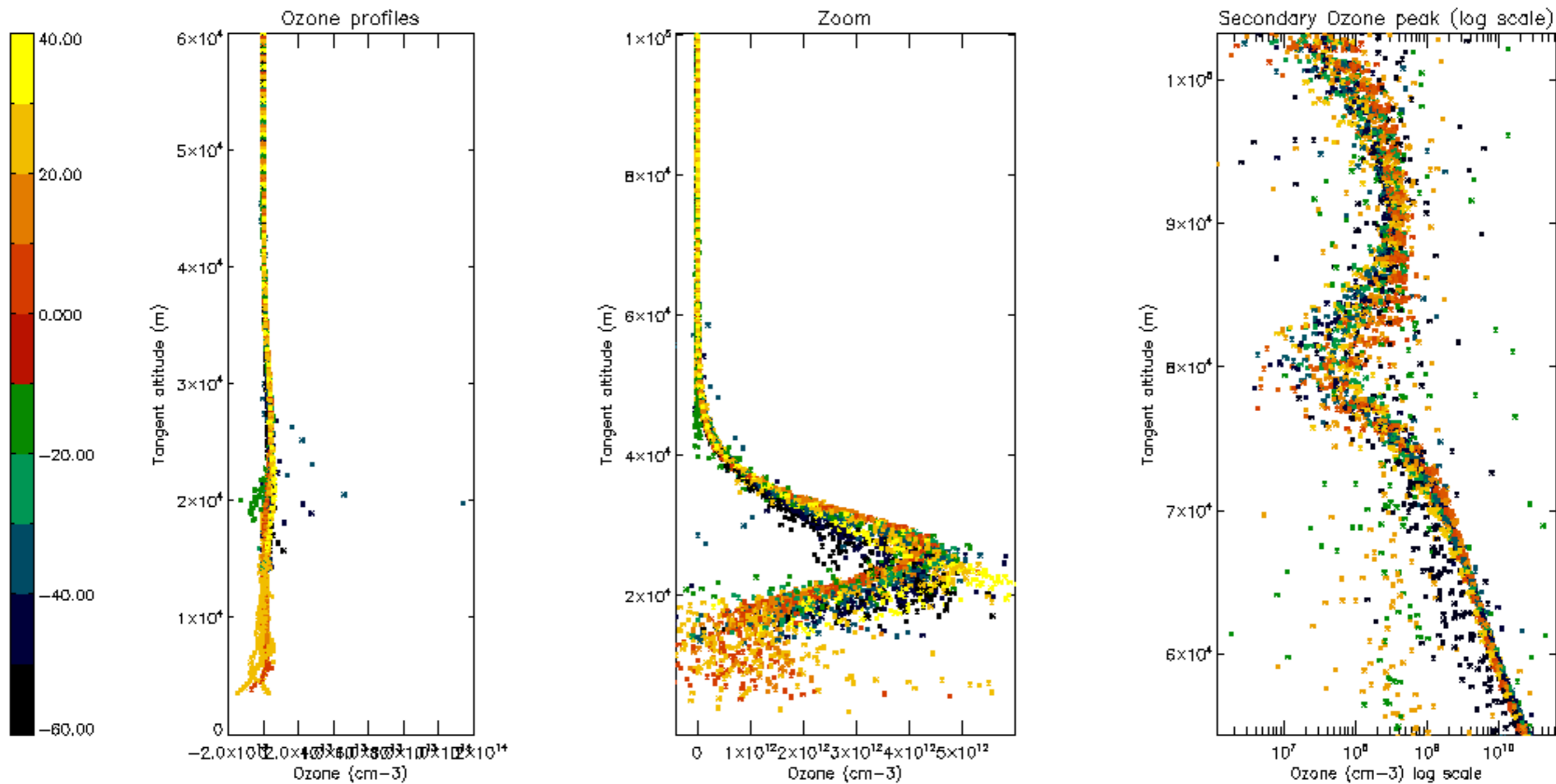


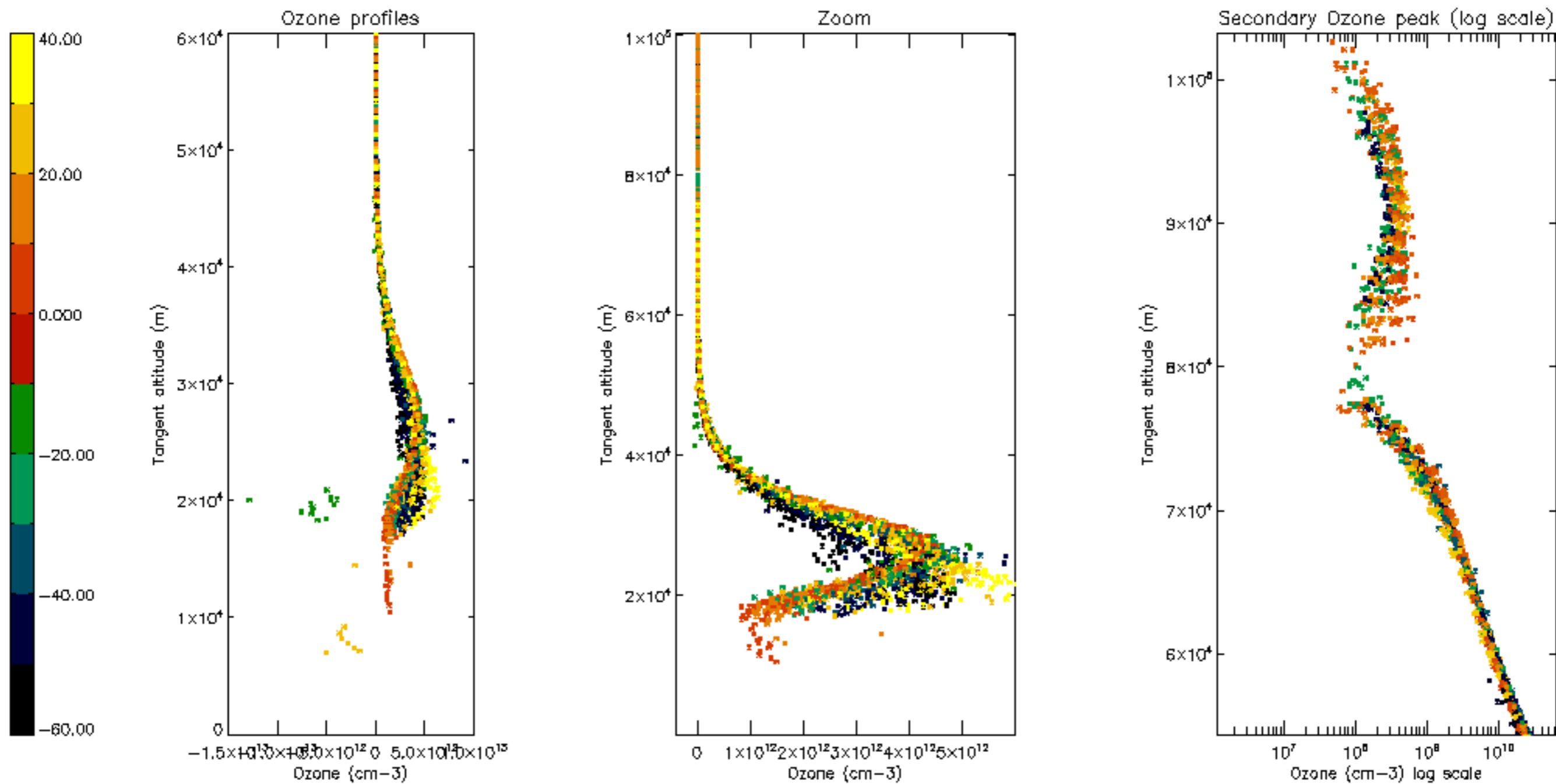
Percentage of star falling outside central band per profile

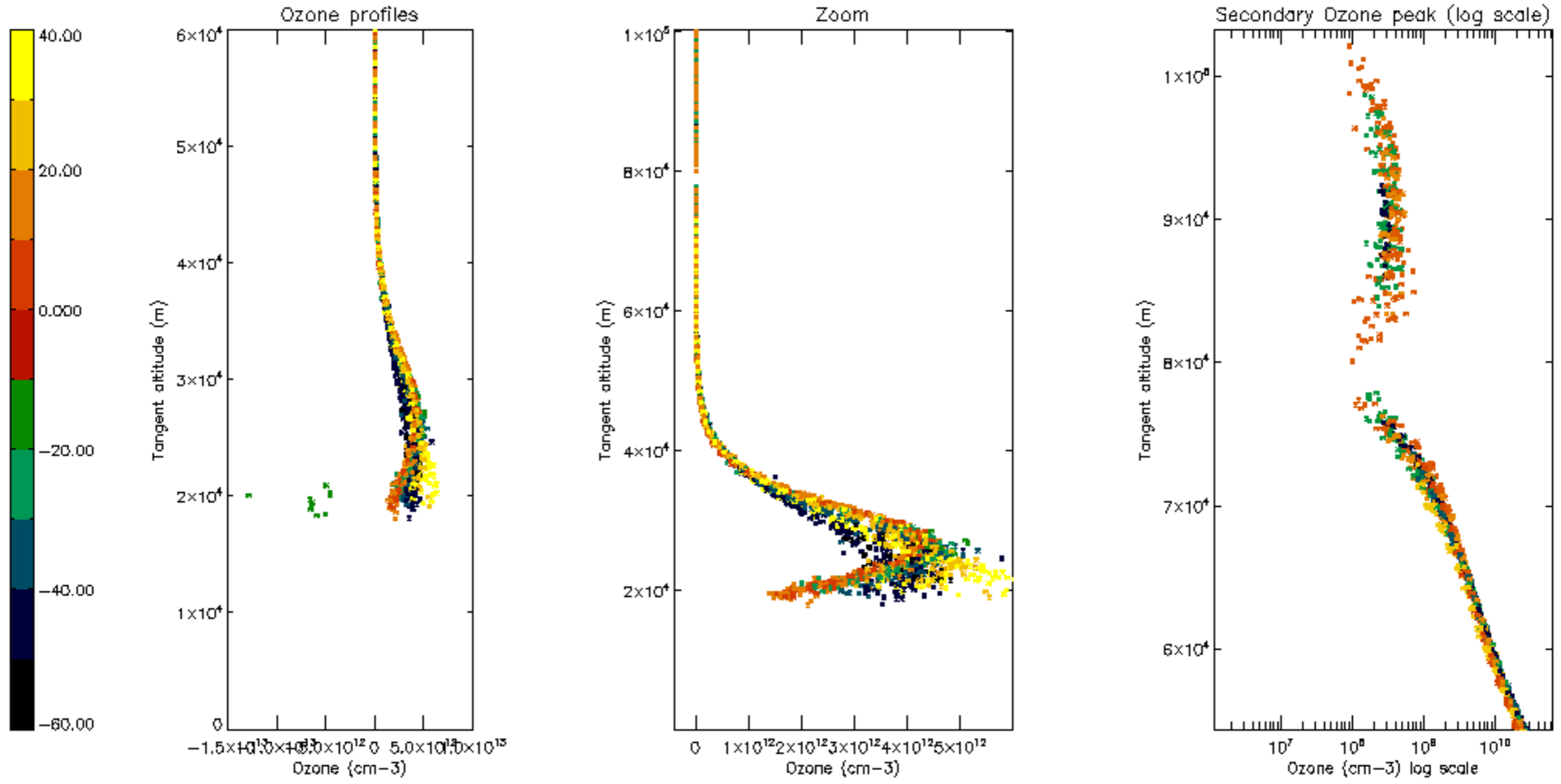


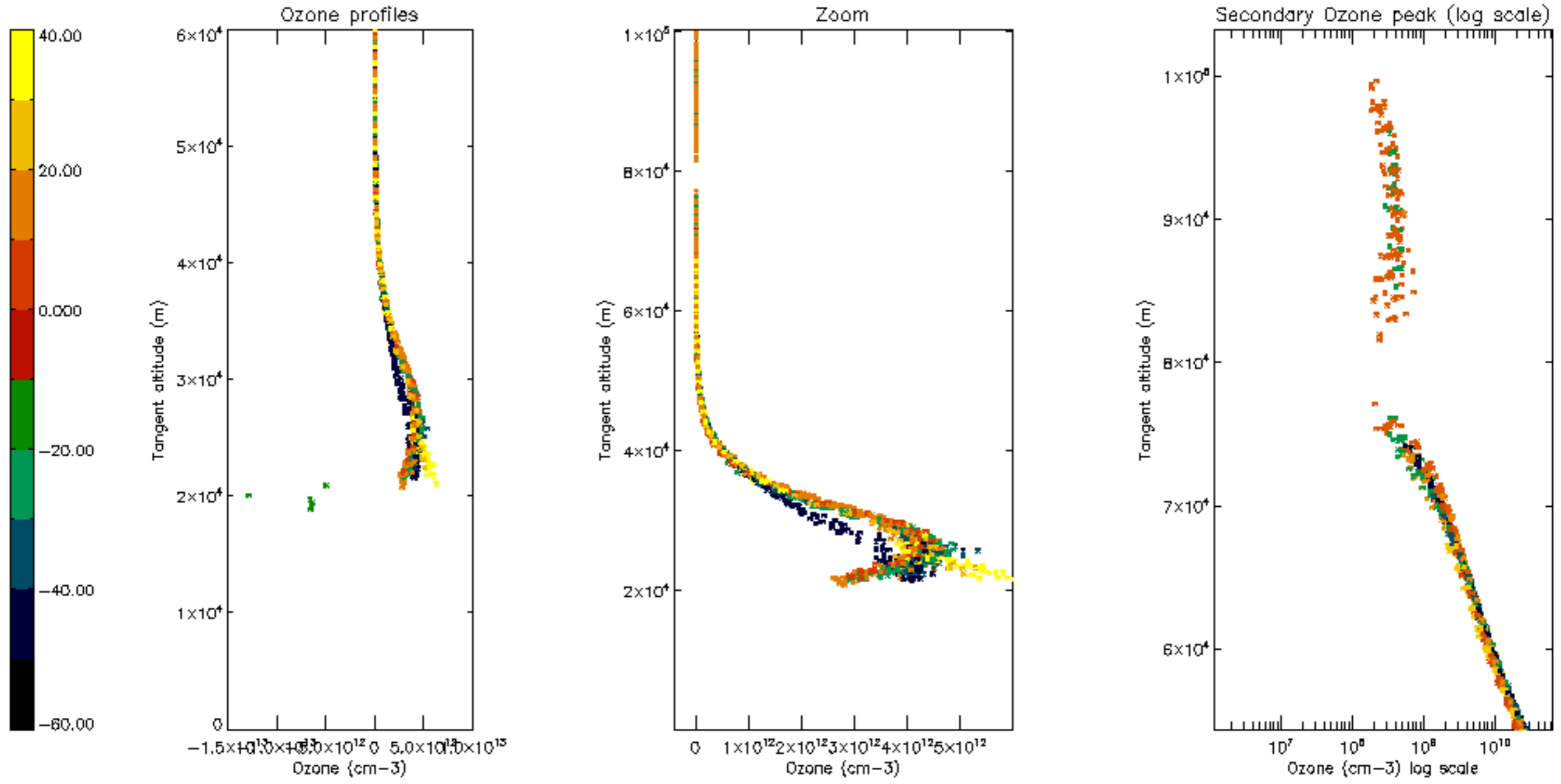
Percentage of saturation errors per profile

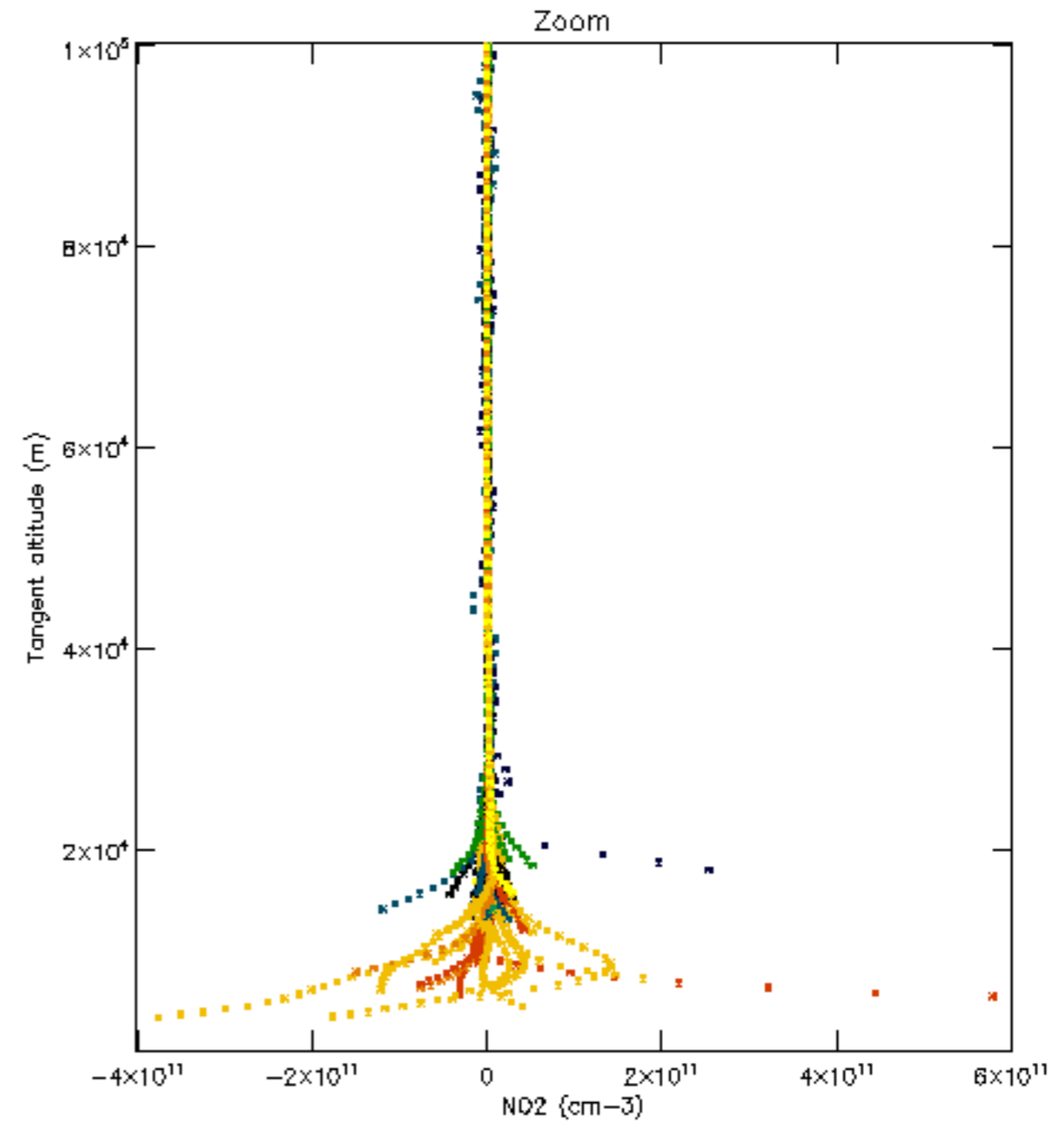
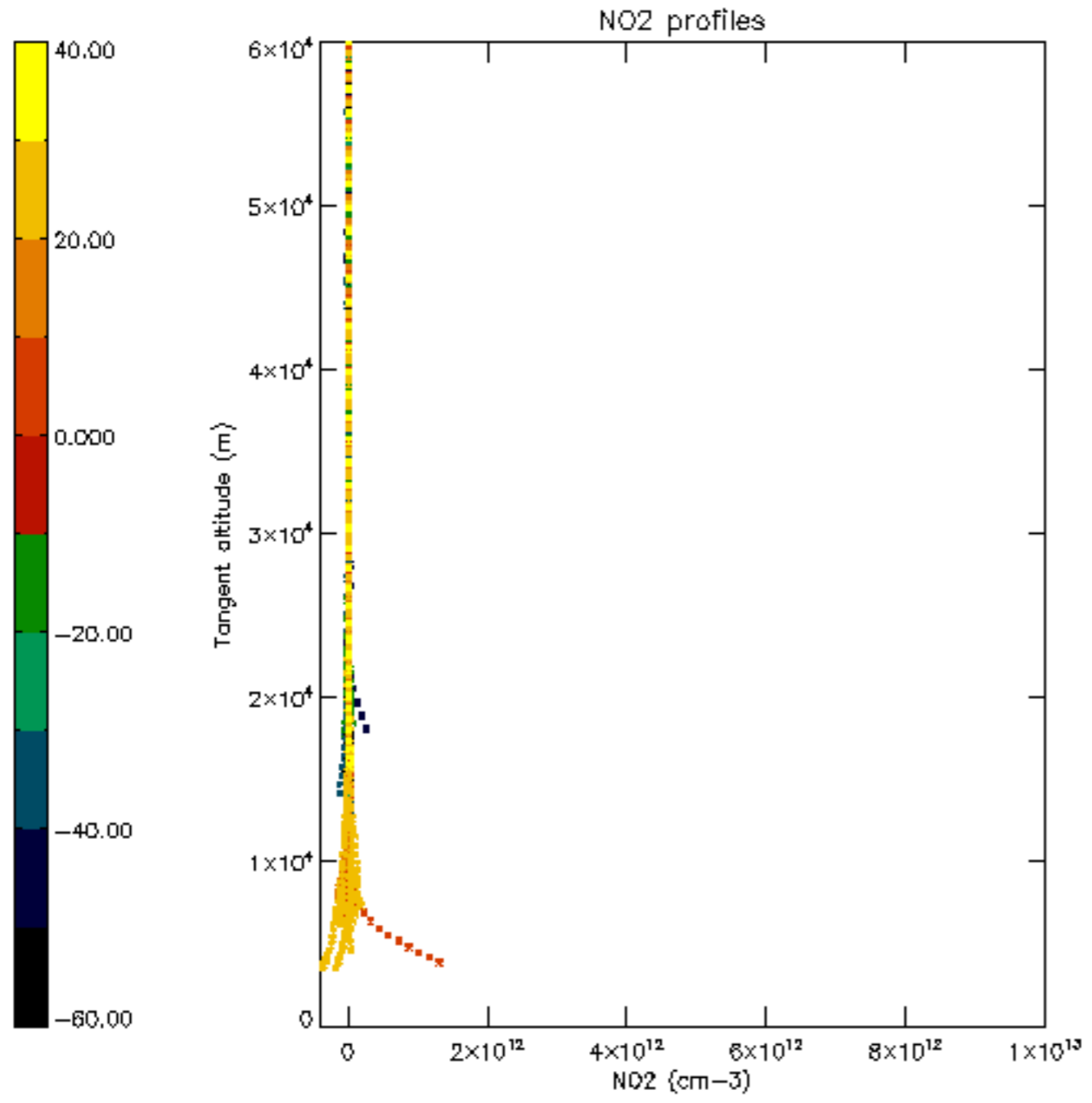


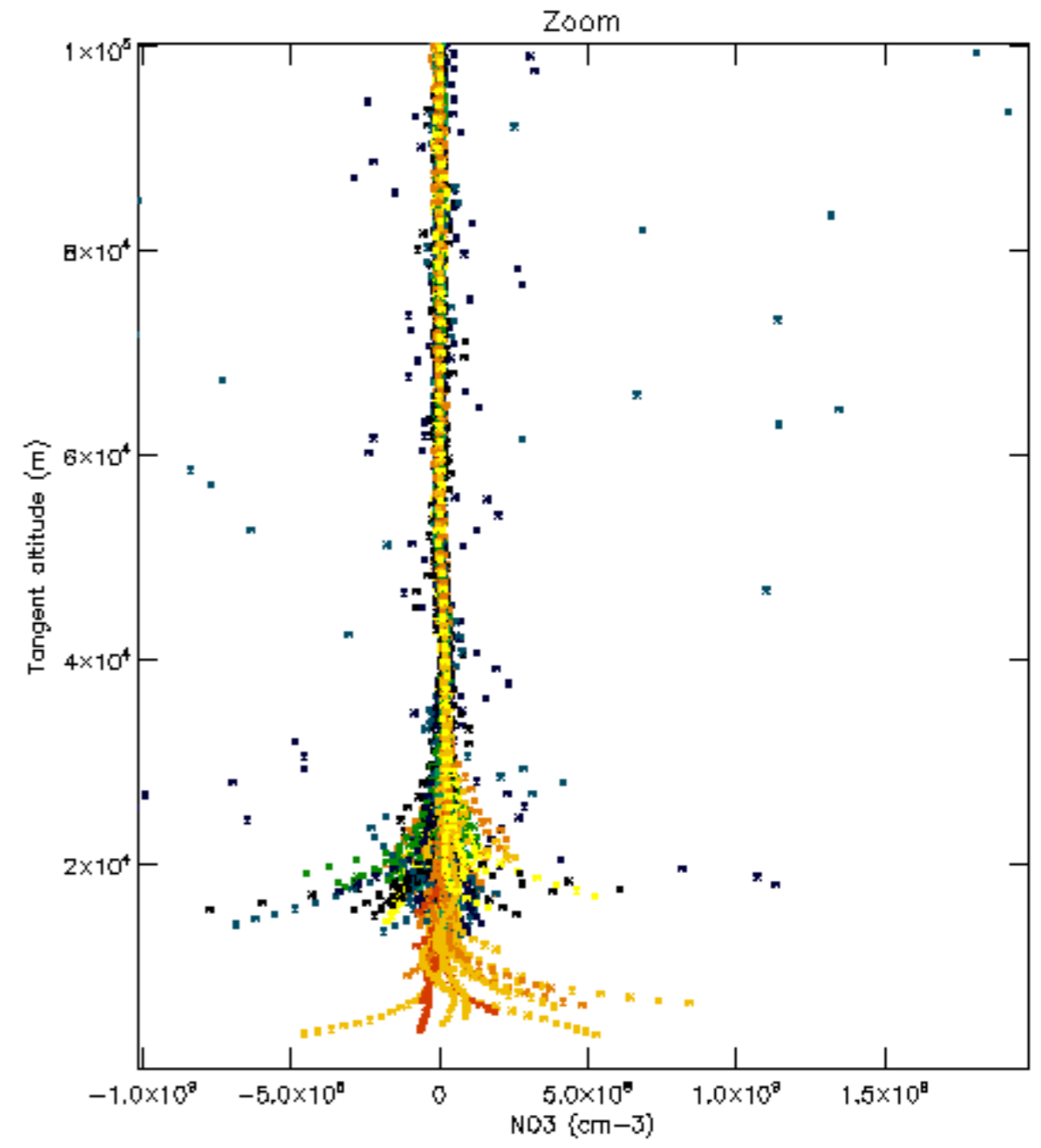
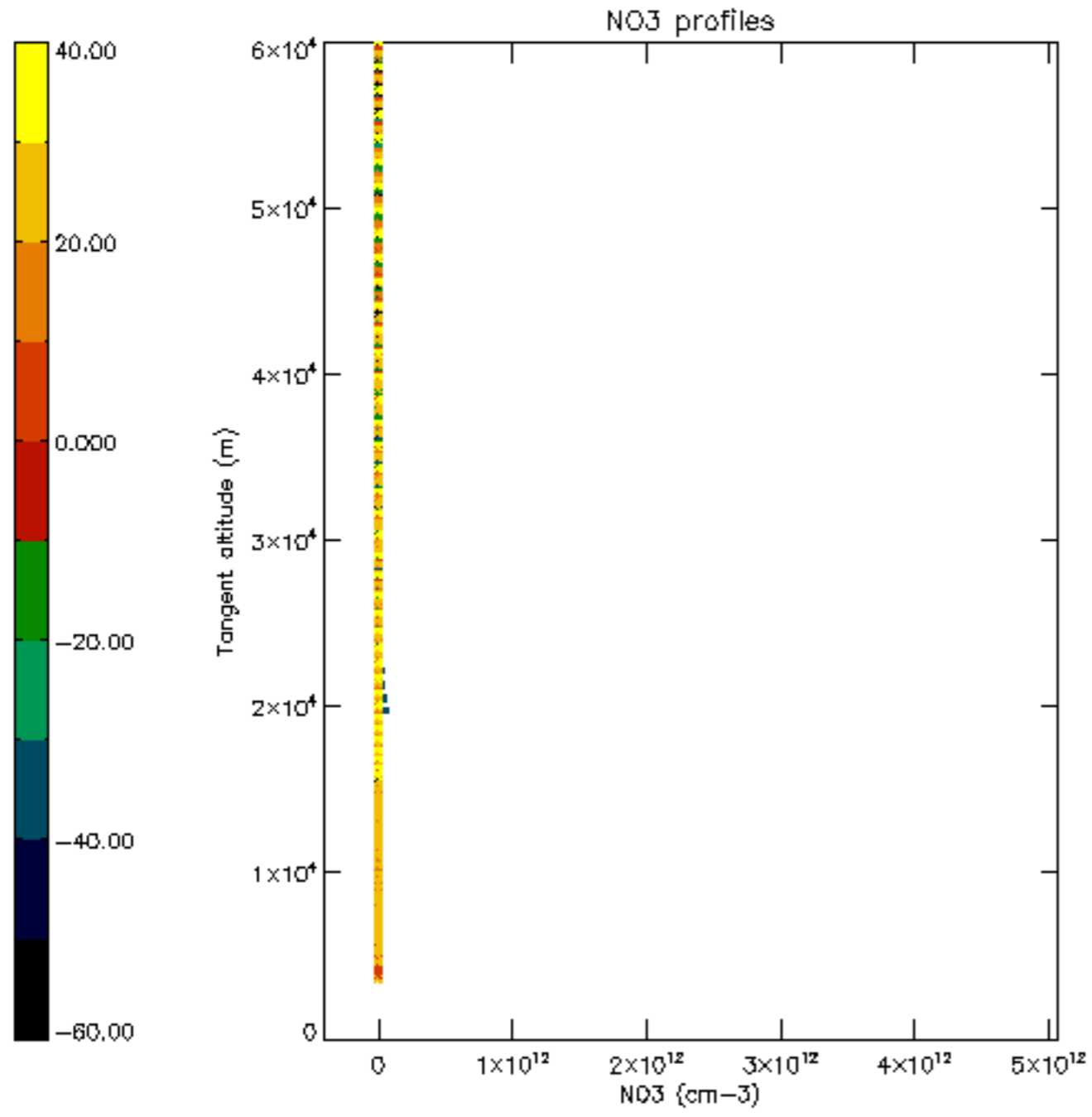


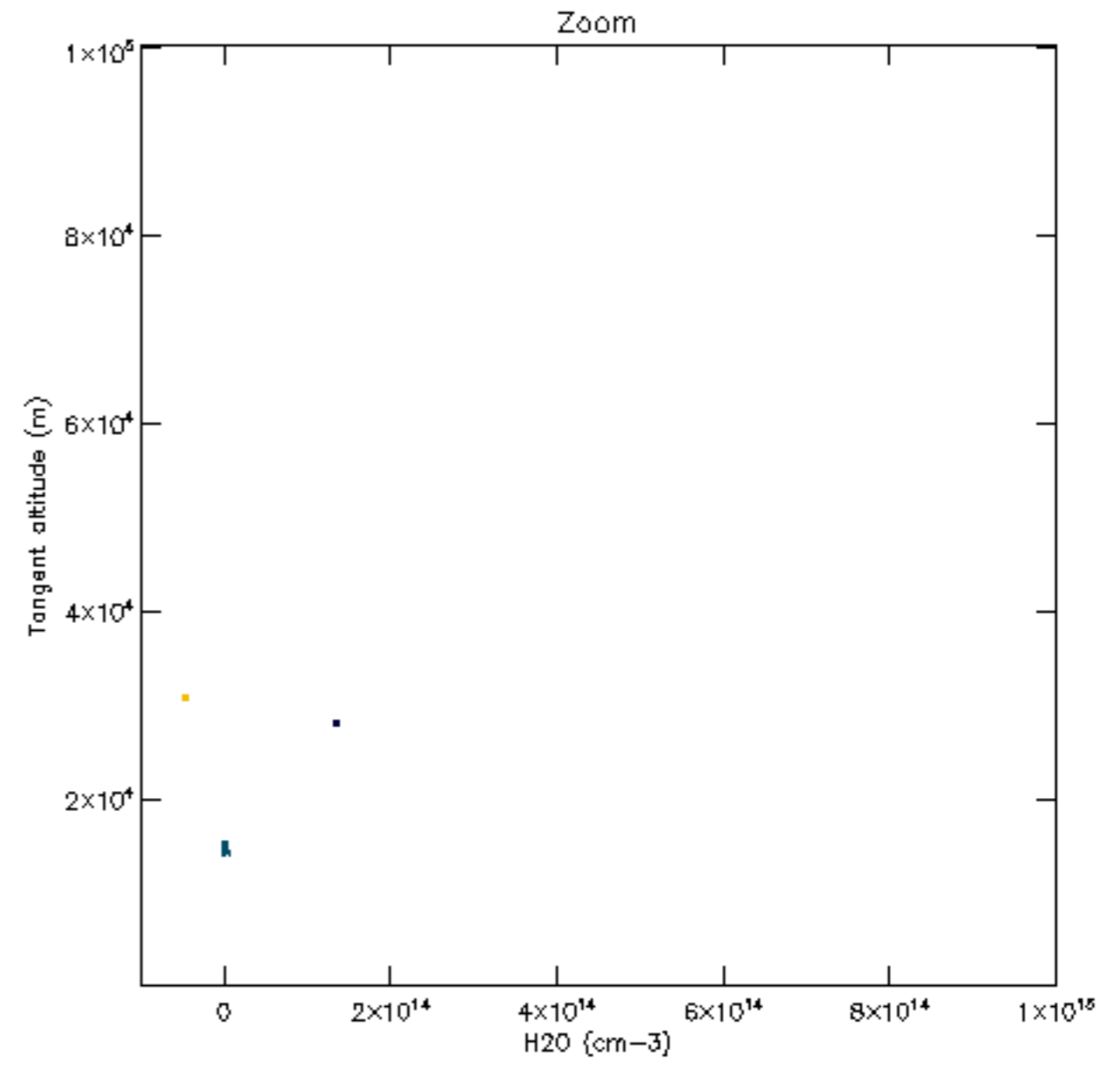
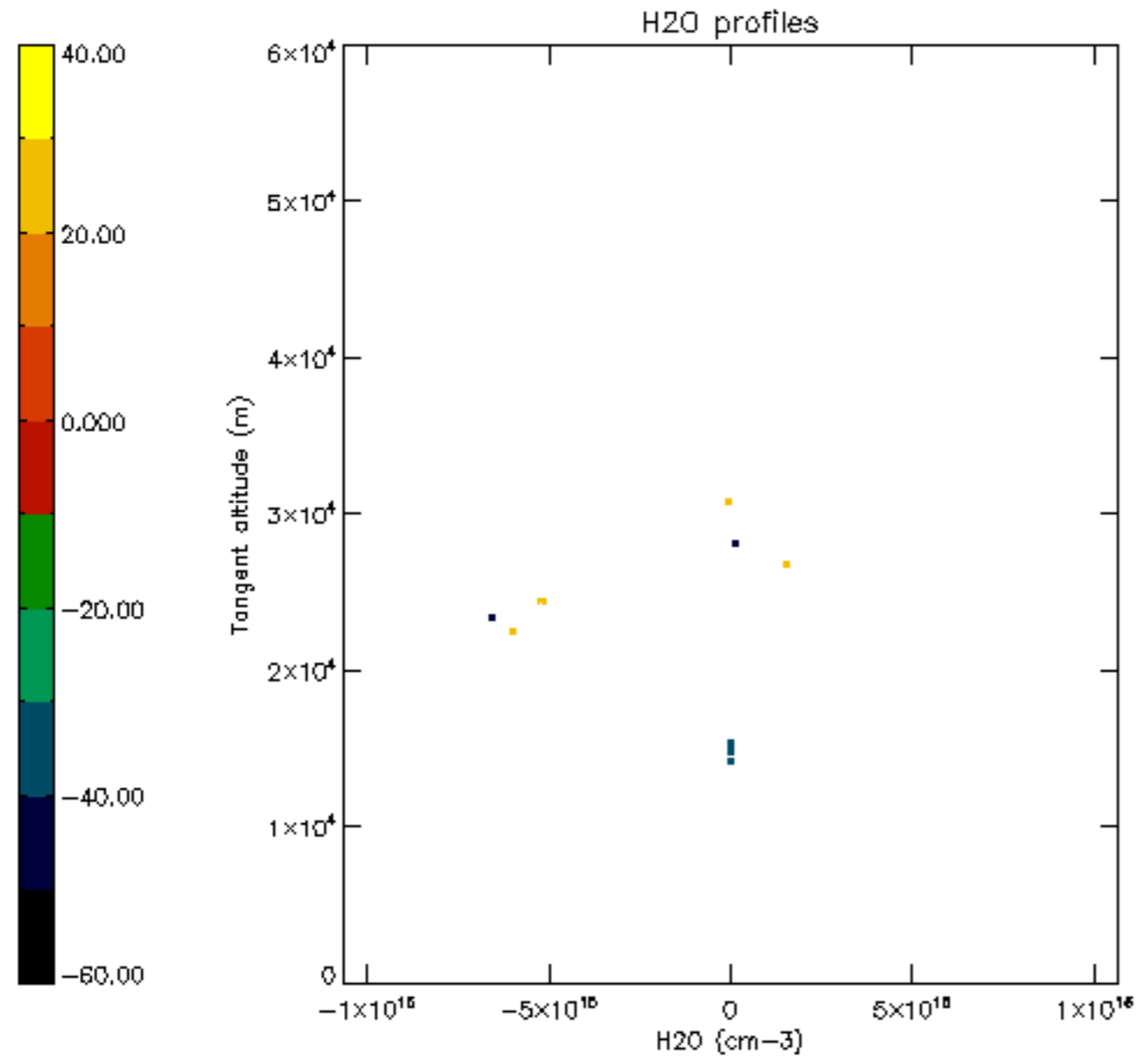


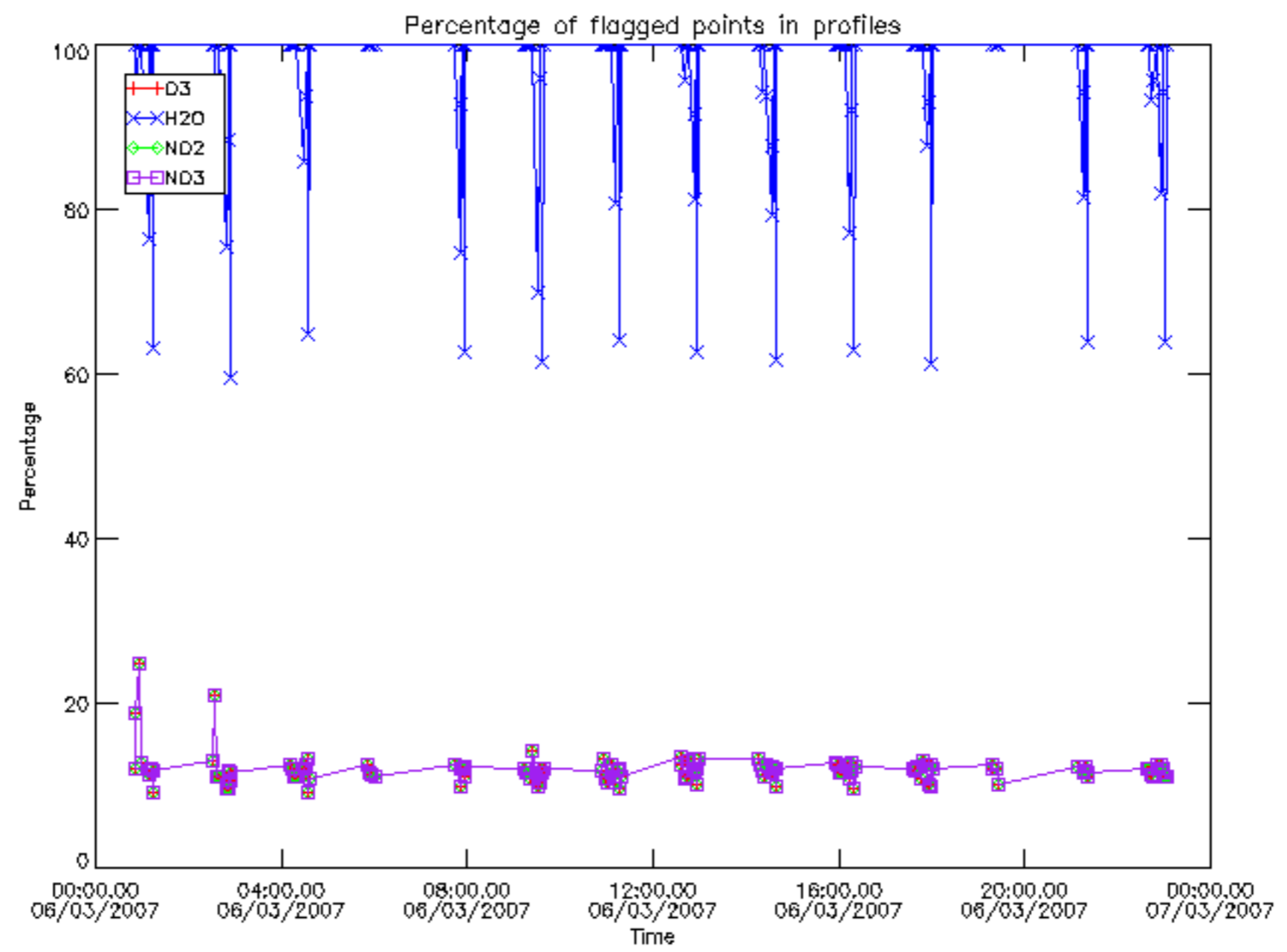




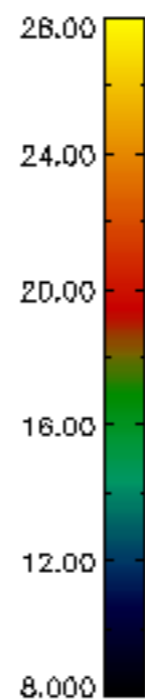
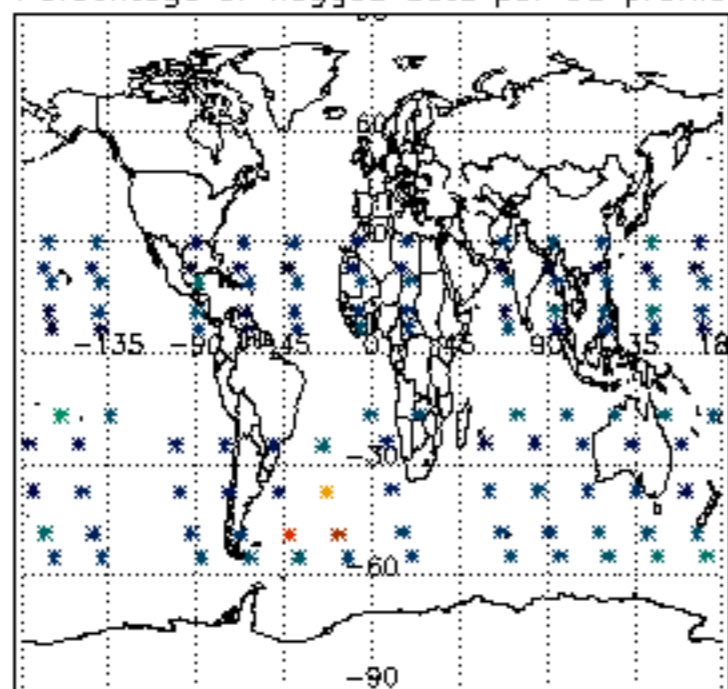




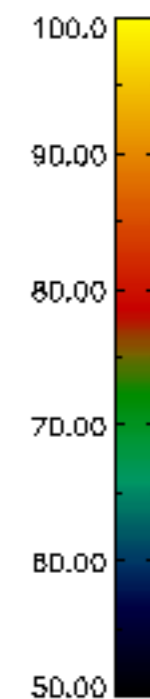
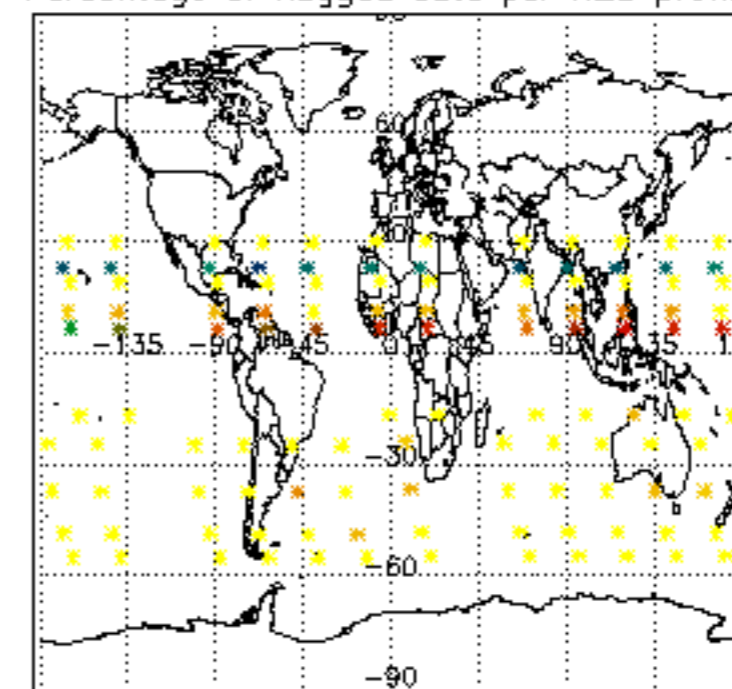




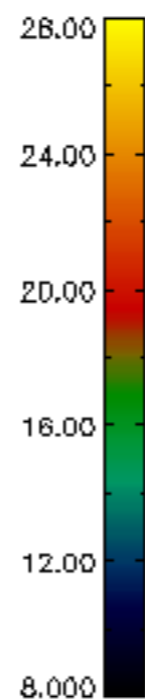
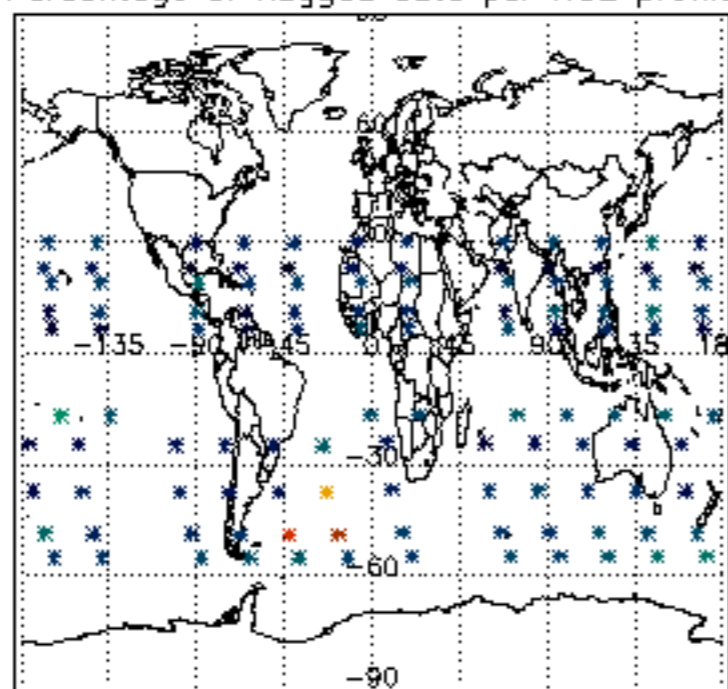
Percentage of flagged data per D3 profile



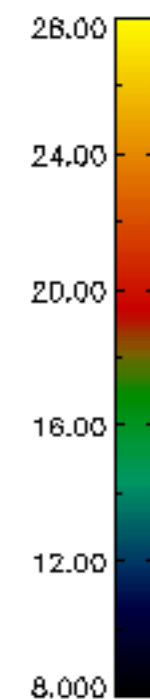
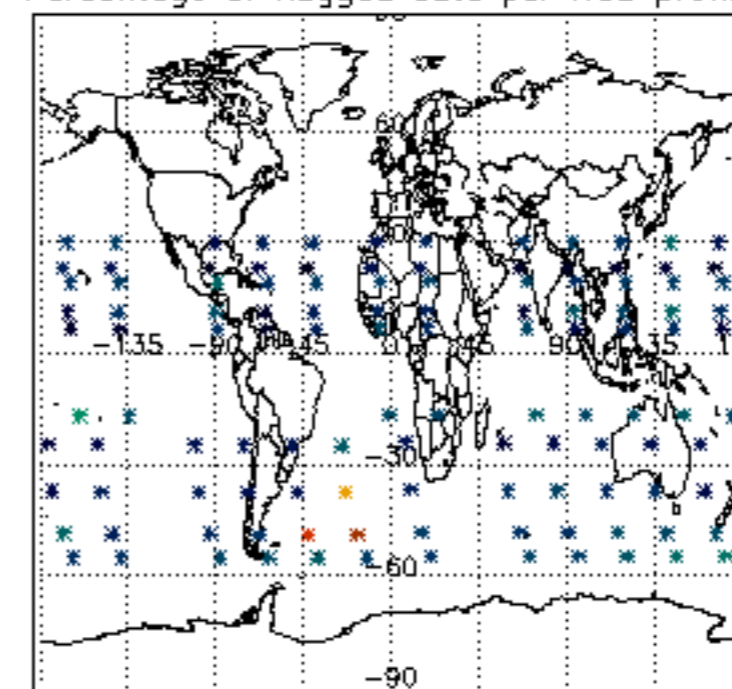
Percentage of flagged data per H2O profile

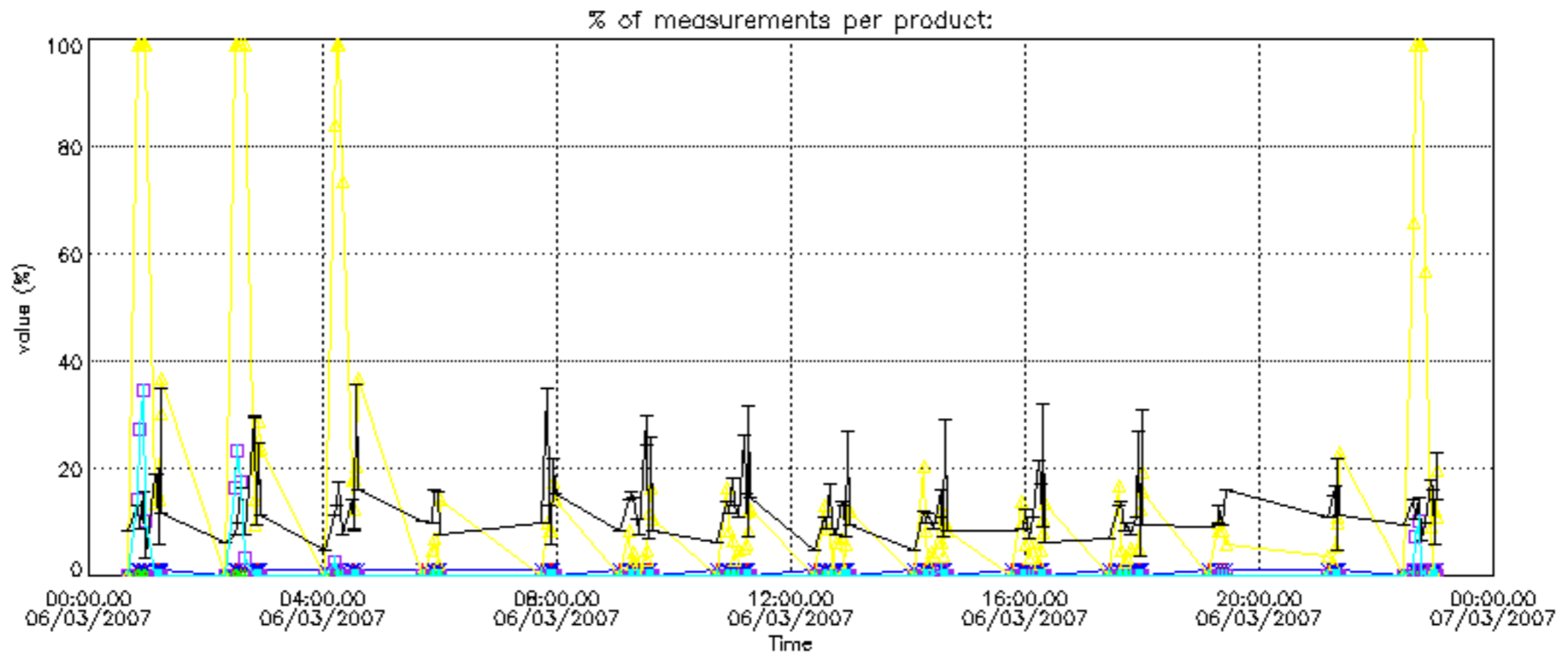


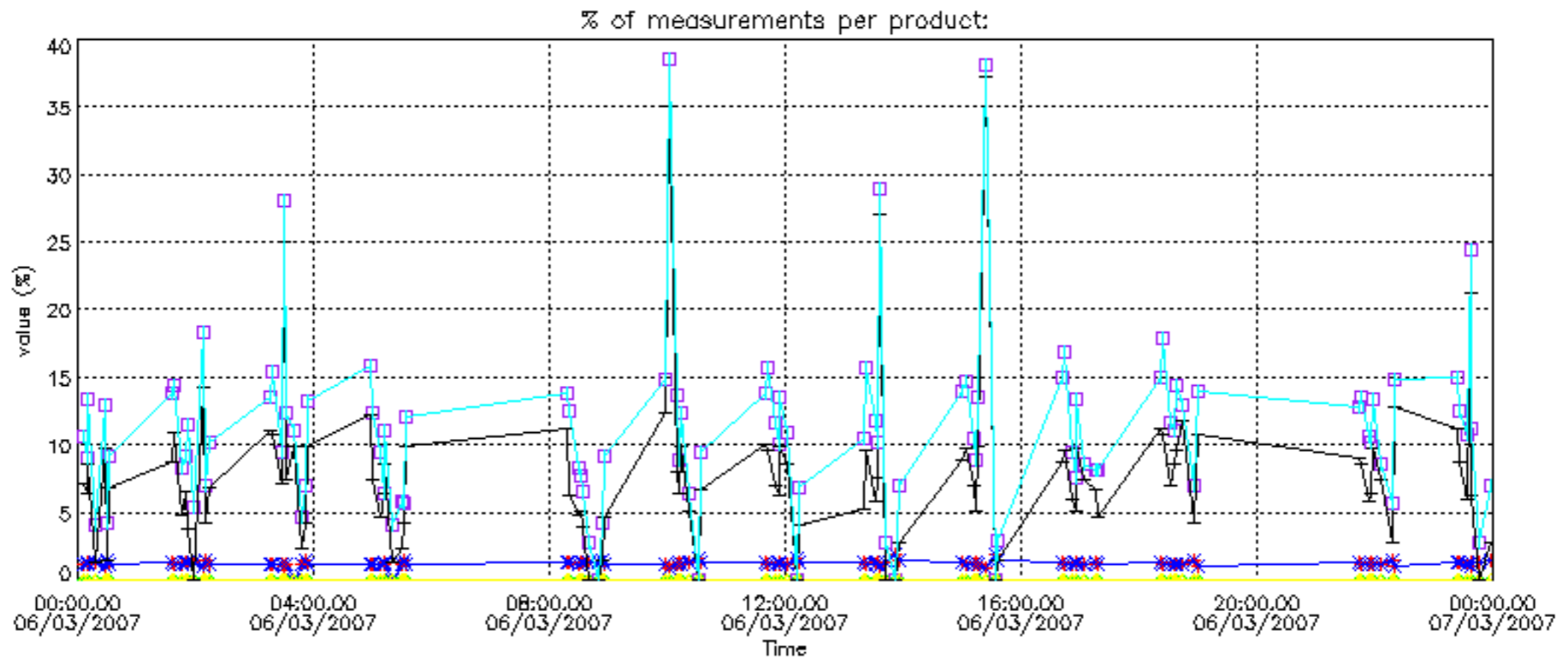
Percentage of flagged data per NO2 profile



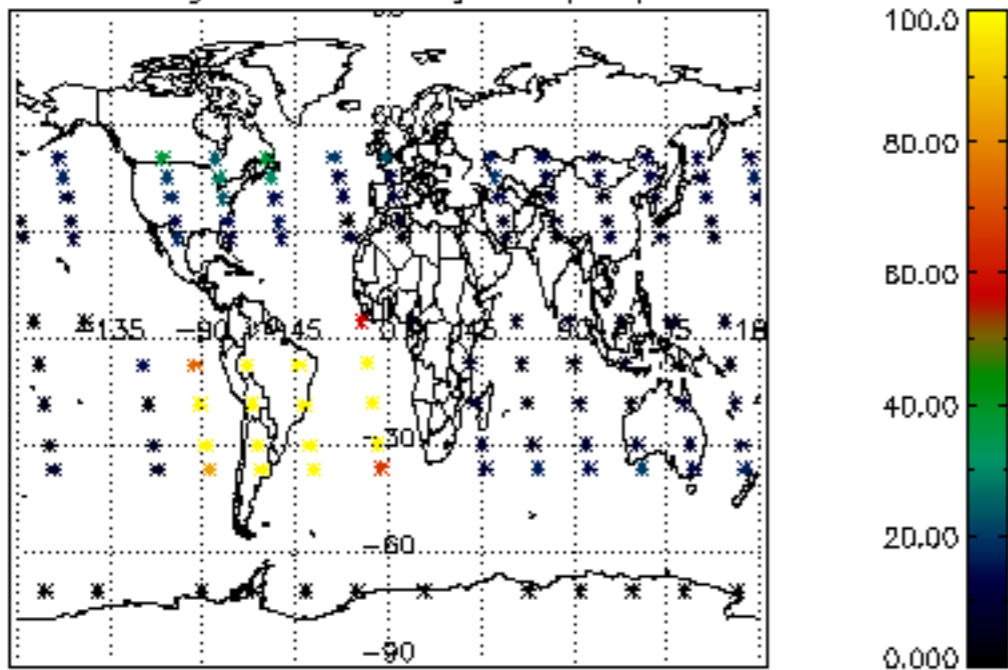
Percentage of flagged data per NO3 profile



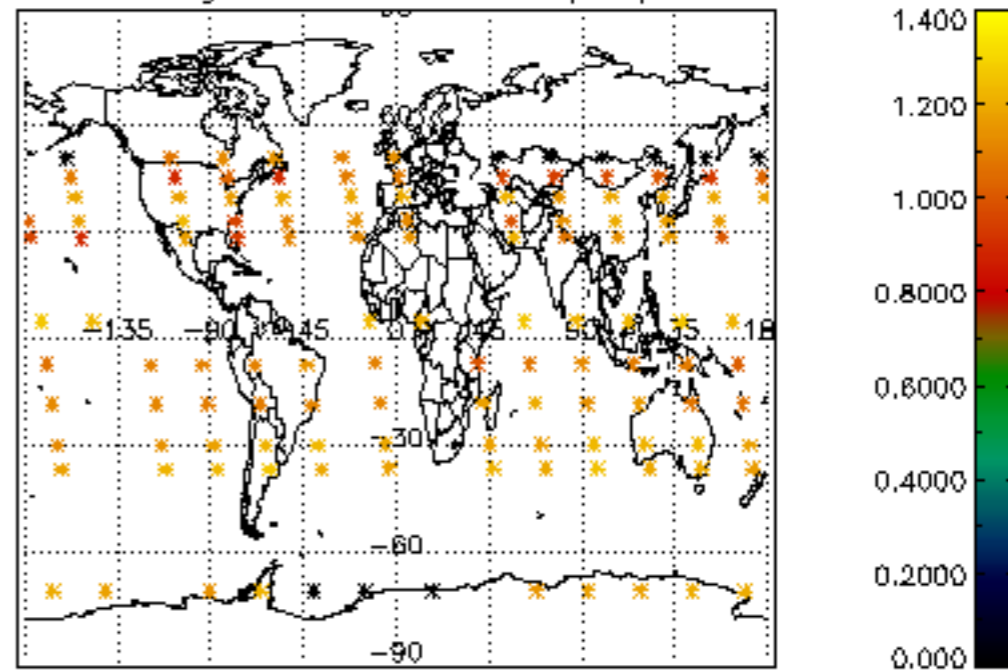




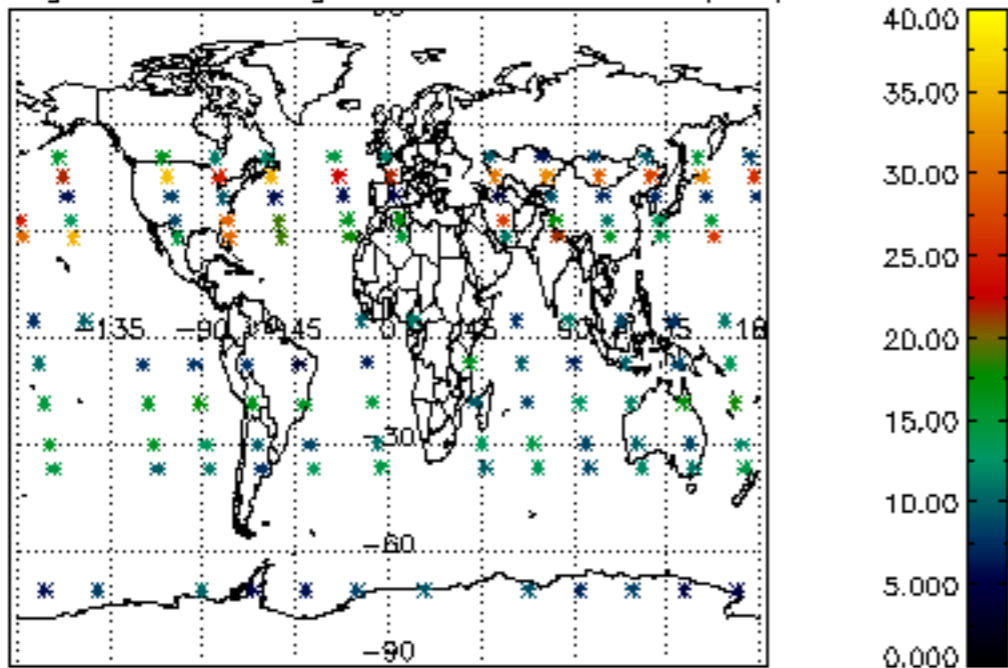
Percentage of cosmic ray hits per profile



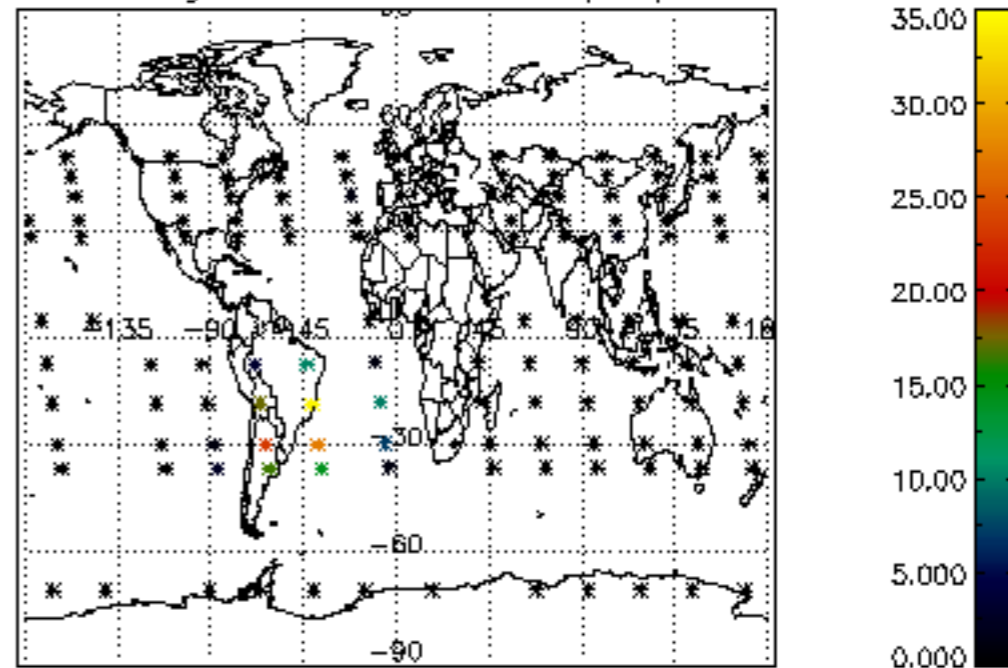
Percentage of datation errors per profile



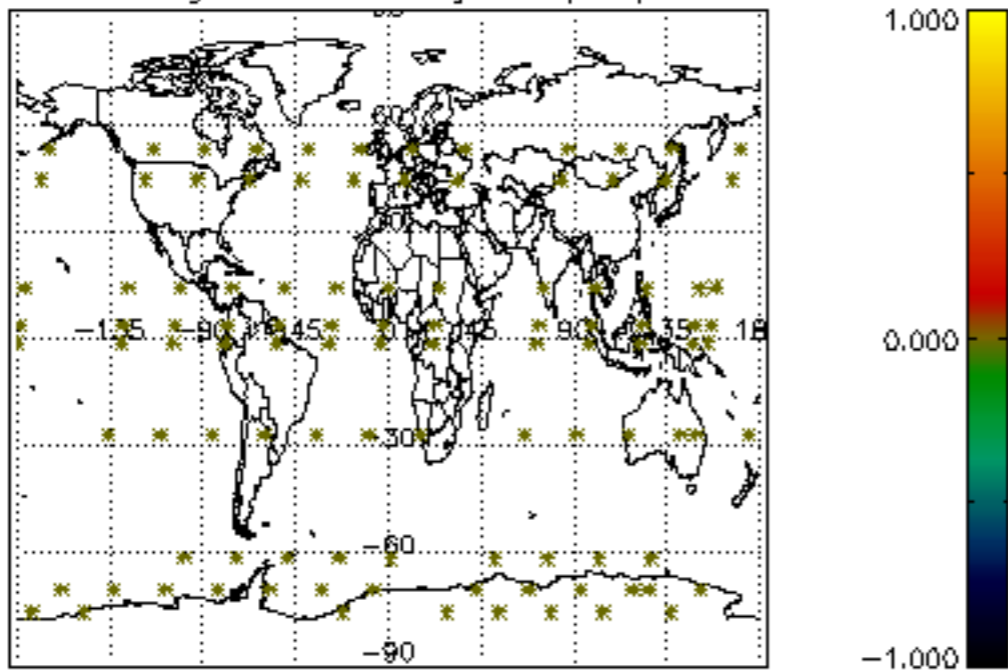
Percentage of star falling outside central band per profile



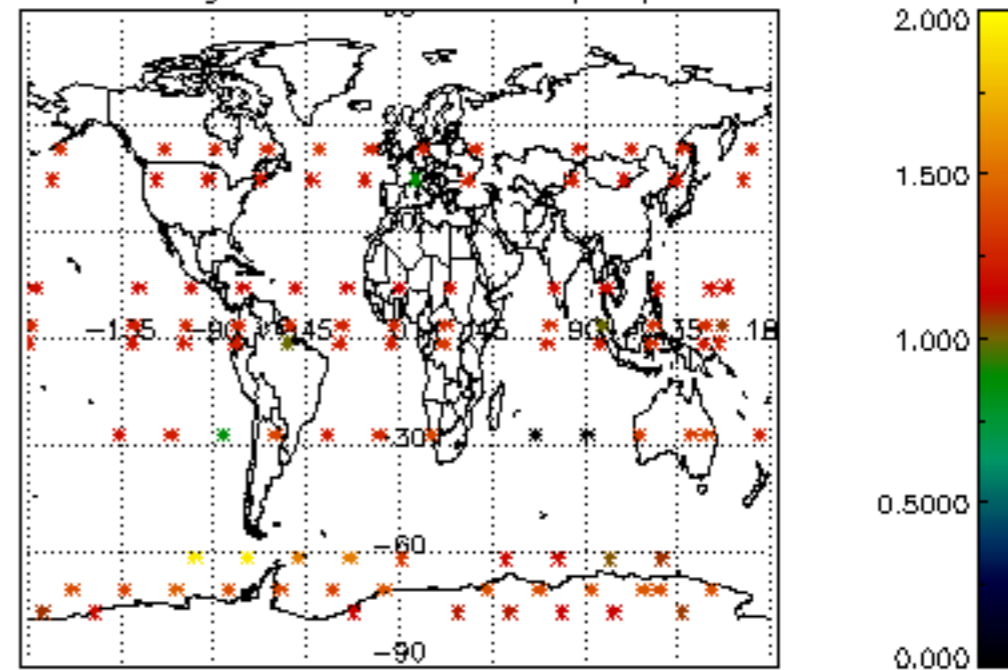
Percentage of saturation errors per profile



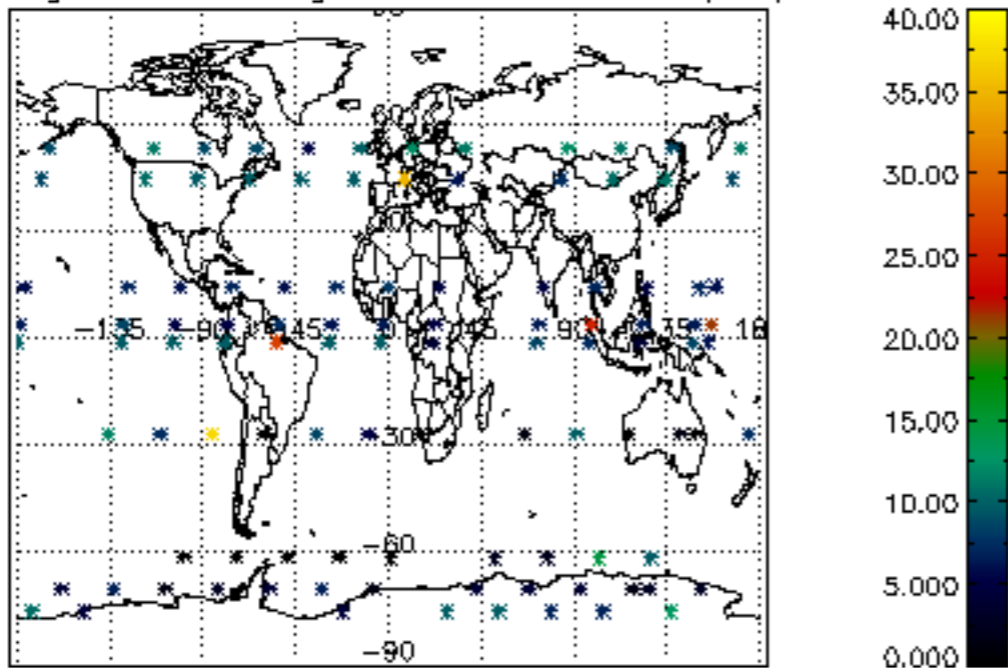
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

