

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](#)

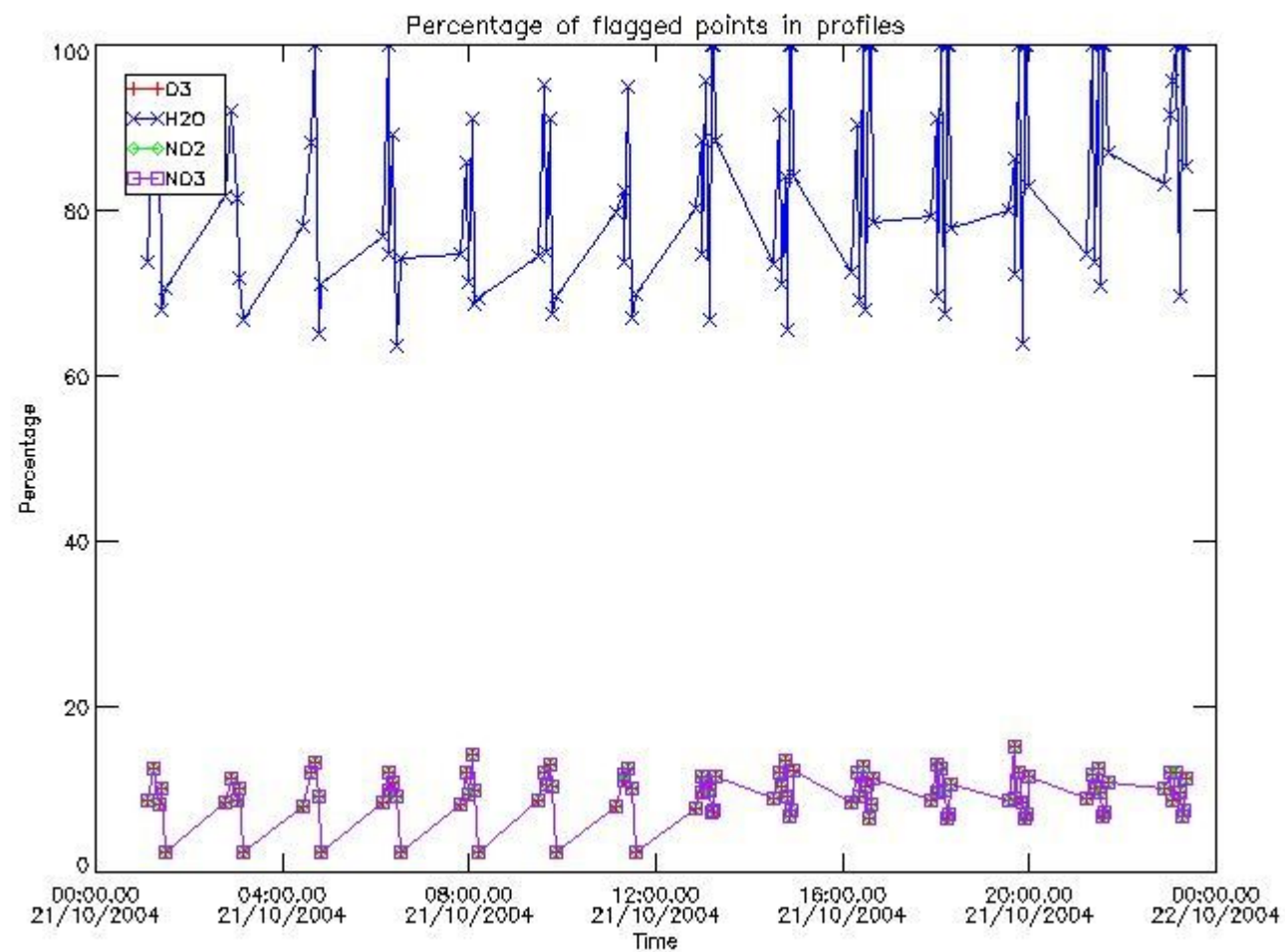
[6. Auxiliary Data Files used for the production reported in section 2](#)

338	GOM_NL__2PRFIN20041021_230833_000000422031_00245_13826_5203.N1	21-OCT-2004 23:08:33	Dark	42.000	29	Bet Car	1.6720	10200.	84	13826	No
339	GOM_NL__2PRFIN20041021_231238_000000532031_00245_13826_5204.N1	21-OCT-2004 23:12:38	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	13826	No
340	GOM_NL__2PRFIN20041021_231544_000000772031_00245_13826_5205.N1	21-OCT-2004 23:15:44	Dark	76.500	177	1Zet CMa	3.0220	26000.	153	13826	No
341	GOM_NL__2PRFIN20041021_231817_000000692031_00245_13826_5206.N1	21-OCT-2004 23:18:17	Dark	68.500	108	Alp Col	2.6520	15200.	137	13826	No
342	GOM_NL__2PRFIN20041021_232102_000000452031_00245_13826_5207.N1	21-OCT-2004 23:21:02	Dark	45.000	9	Alp Eri	0.45300	24000.	90	13826	No
343	GOM_NL__2PRFIN20041021_232355_000000482031_00245_13826_5208.N1	21-OCT-2004 23:23:55	Straylight	48.000	157	The1Eri	2.9060	9300.0	96	13826	No
344	GOM_NL__2PRFIN20041021_232557_000000432031_00245_13826_5209.N1	21-OCT-2004 23:25:57	Straylight	42.500	84	Alp Phe	2.3970	4500.0	85	13826	No
345	GOM_NL__2PRFIN20041021_232839_000002132031_00245_13826_5210.N1	21-OCT-2004 23:28:39	Twilight_stray	213.00	101	11Alp Lep	2.5820	7000.0	426	13826	No
346	GOM_NL__2PRFIN20041021_233309_000000942031_00245_13826_5211.N1	21-OCT-2004 23:33:09	Twilight_stray	94.000	165	34Gam Eri	2.9500	3200.0	188	13826	No
347	GOM_NL__2PRFIN20041021_234200_000000382031_00245_13826_5212.N1	21-OCT-2004 23:42:00	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	13826	No
348	GOM_NL__2PRFIN20041021_234417_000000442031_00245_13826_5213.N1	21-OCT-2004 23:44:17	Bright	43.500	105	6Bet Ari	2.6450	8900.0	87	13826	No
349	GOM_NL__2PRFIN20041021_234553_000000382031_00245_13826_5214.N1	21-OCT-2004 23:45:53	Bright	37.500	58	21Alp And	2.0730	11000.	75	13826	No
350	GOM_NL__2PRFIN20041021_234758_000000412031_00245_13826_5215.N1	21-OCT-2004 23:47:58	Bright	40.500	53	43Bet And	2.0480	3300.0	81	13826	No
351	GOM_NL__2PRFIN20041021_235101_000000442031_00245_13826_5216.N1	21-OCT-2004 23:51:01	Bright	44.000	73	57Gam1And	2.2600	13100.	88	13826	No
352	GOM_NL__2PRFIN20041021_235341_000000402031_00245_13826_5217.N1	21-OCT-2004 23:53:41	Bright	39.500	68	18Alp Cas	2.2250	4500.0	79	13826	No
353	GOM_NL__2PRFIN20041021_235458_000000402031_00245_13826_5218.N1	21-OCT-2004 23:54:58	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	13826	No
354	GOM_NL__2PRFIN20041021_235718_000000382031_00245_13826_5219.N1	21-OCT-2004 23:57:18	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	13826	No

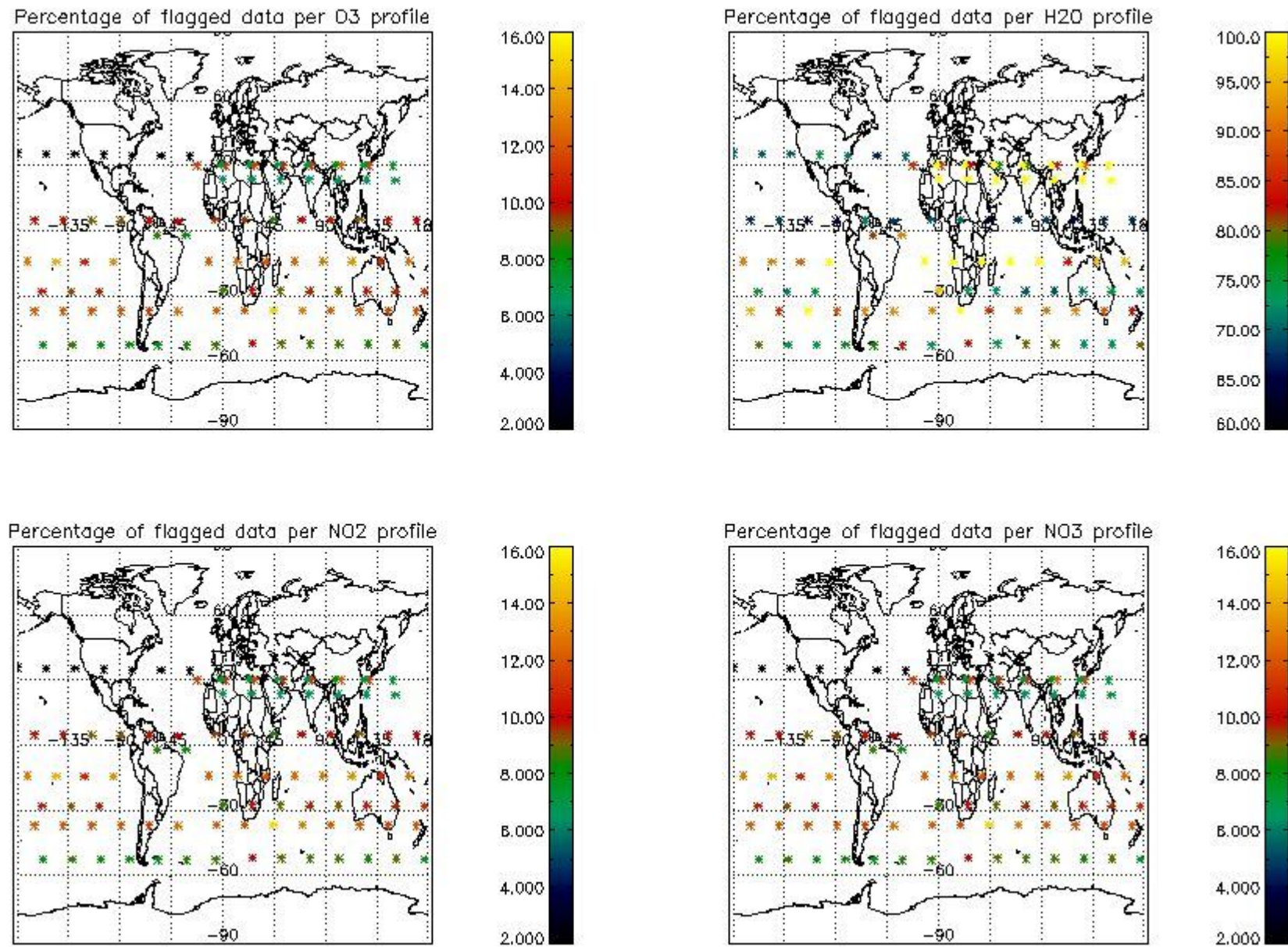
3. Quality information per product

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)

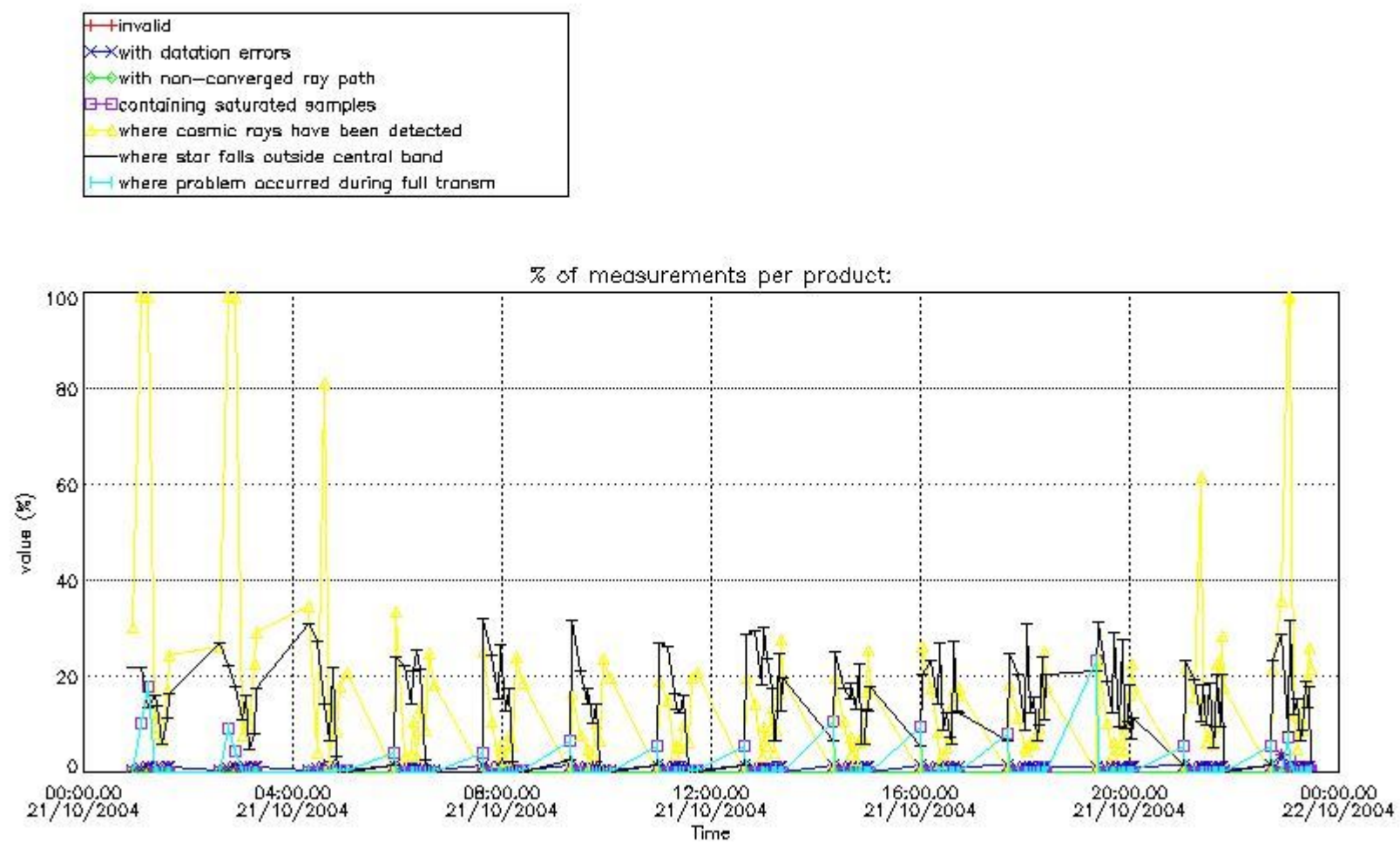


4. Level 1 quality information per product

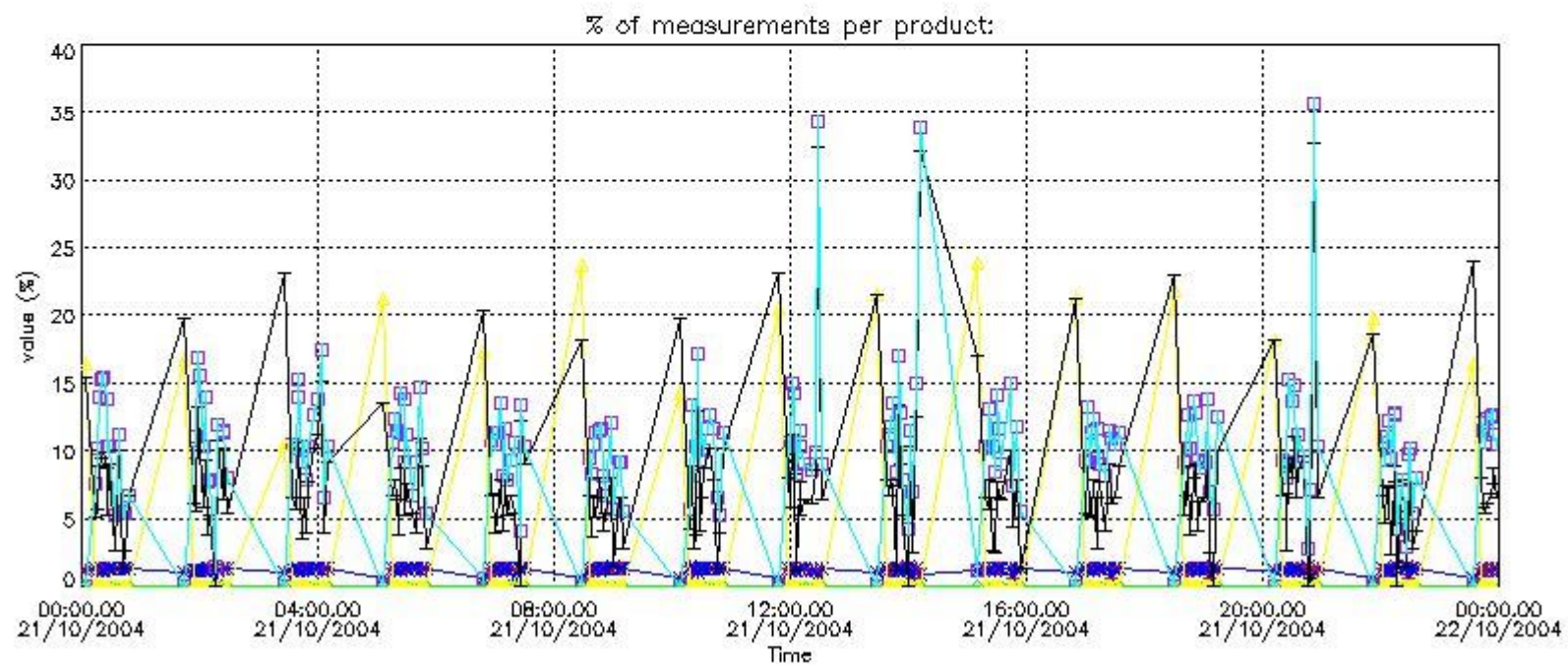
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



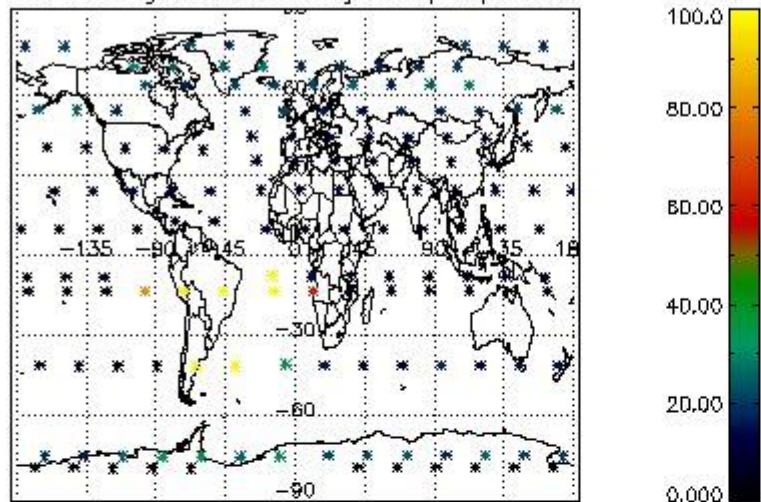
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



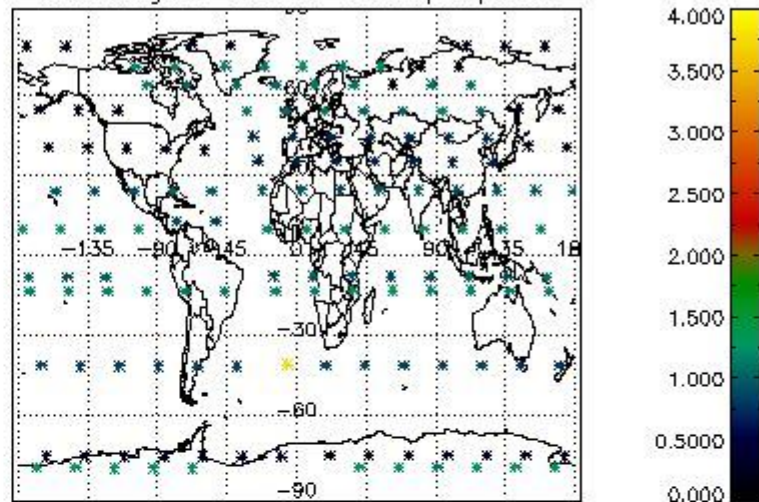
4.2 Plot quality information per product coming from level 1b processing (world map)

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

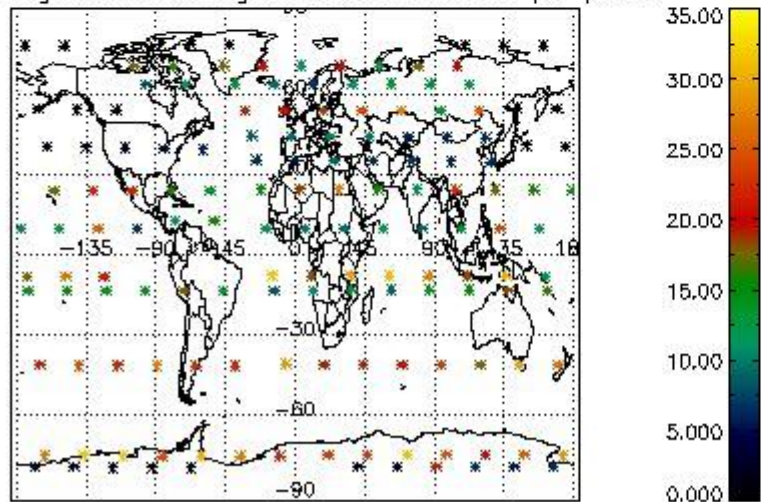
Percentage of cosmic ray hits per profile



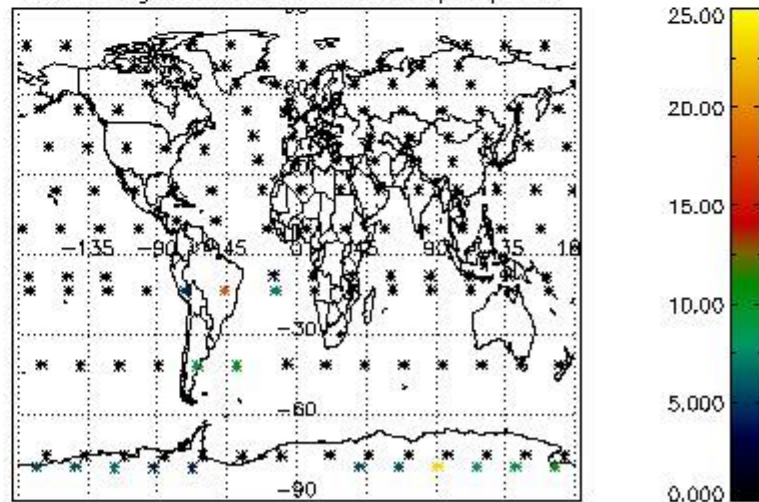
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

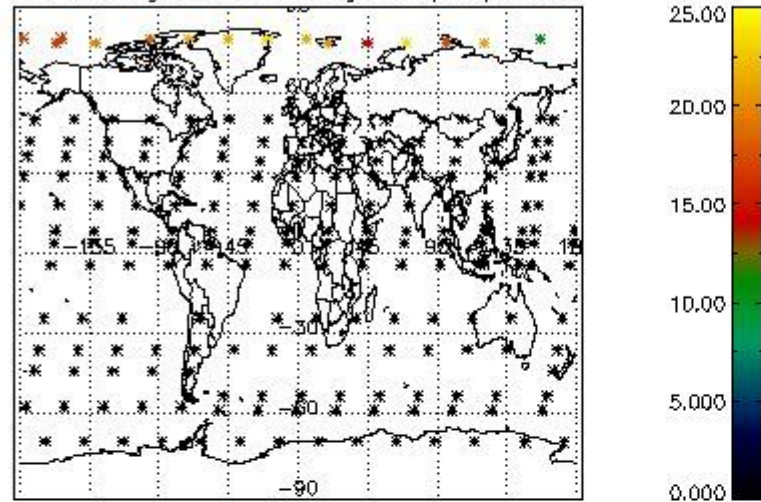


Percentage of saturation errors per profile

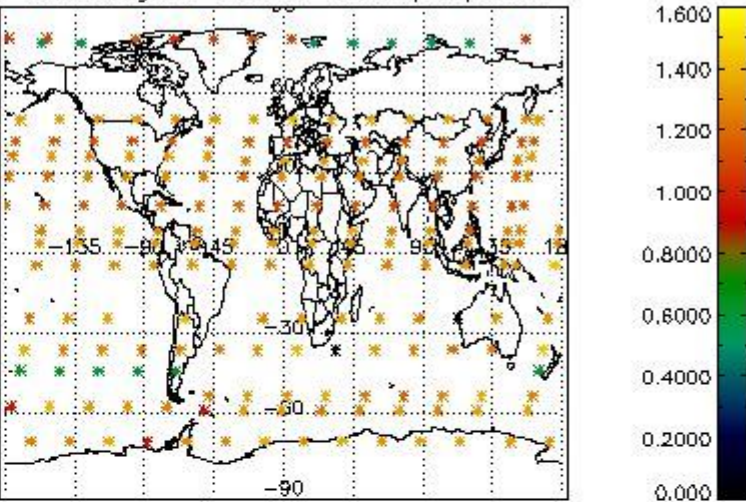


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

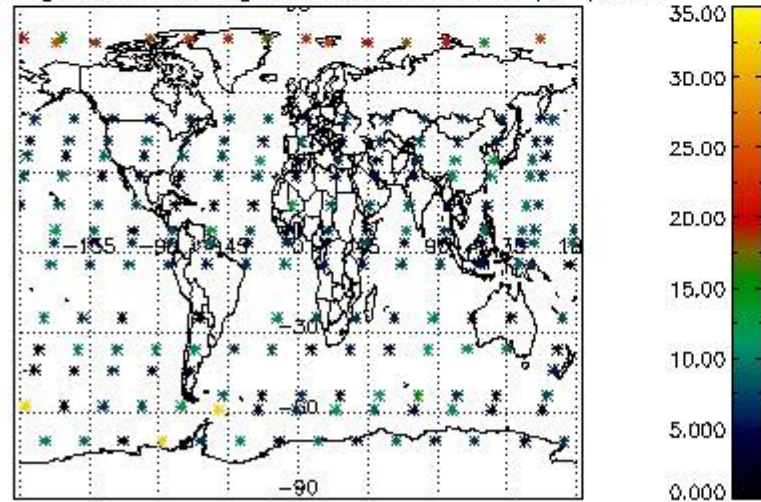
Percentage of cosmic ray hits per profile



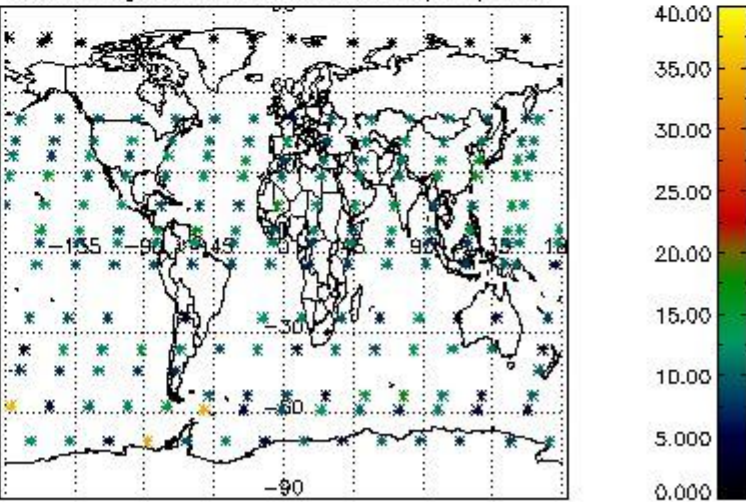
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

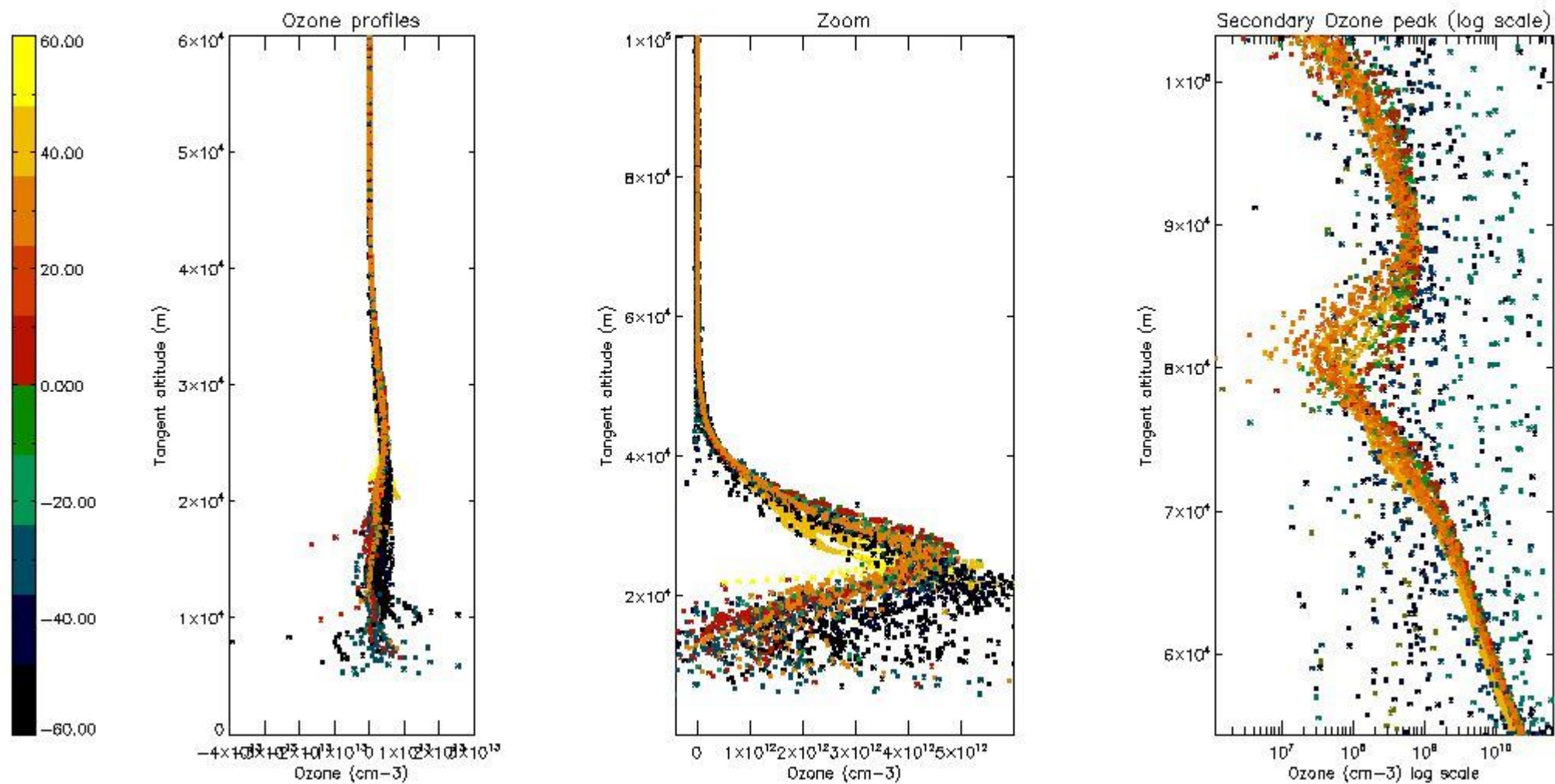
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	18

STD < 10	16
STD < 5	13

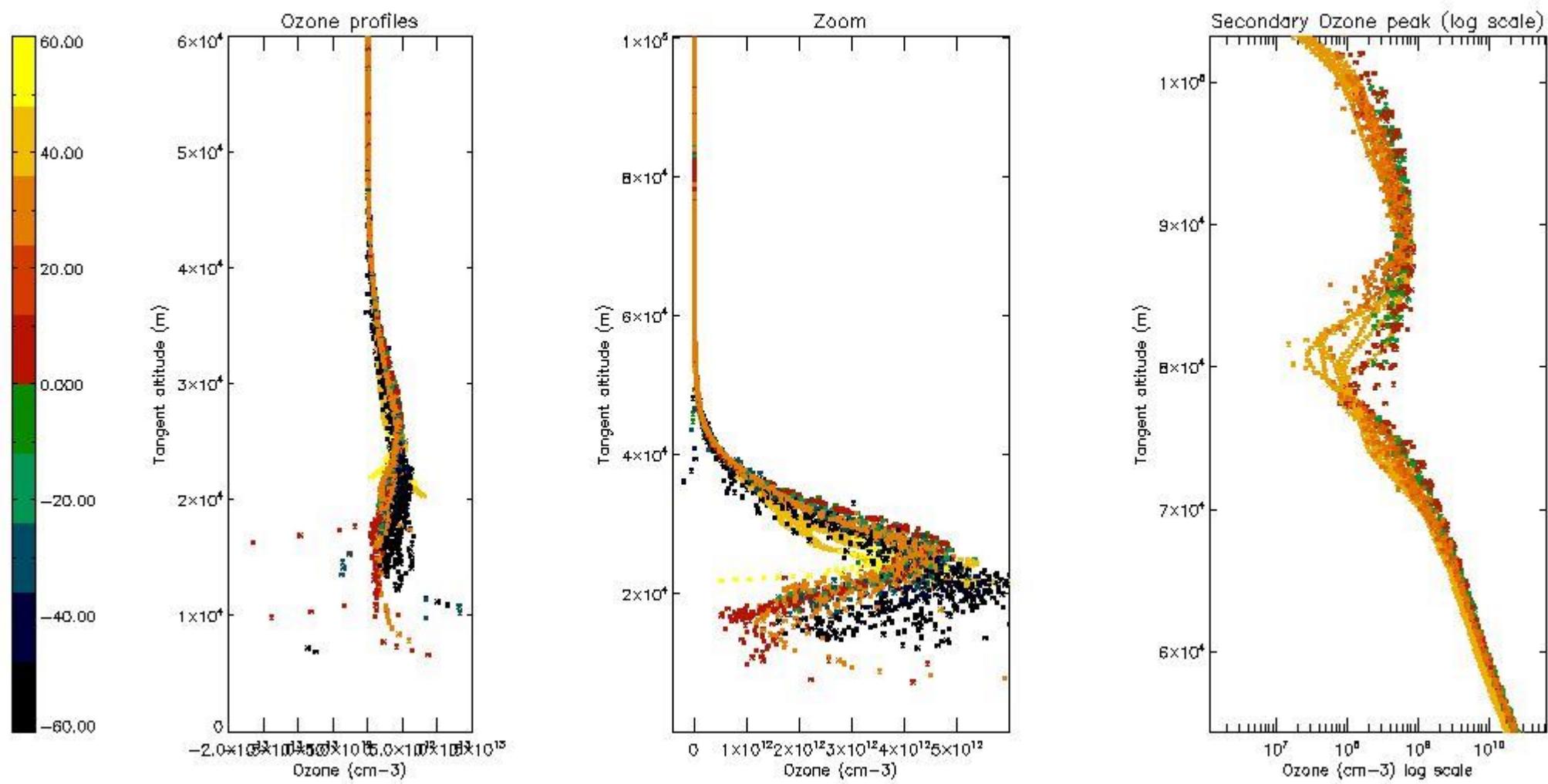
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



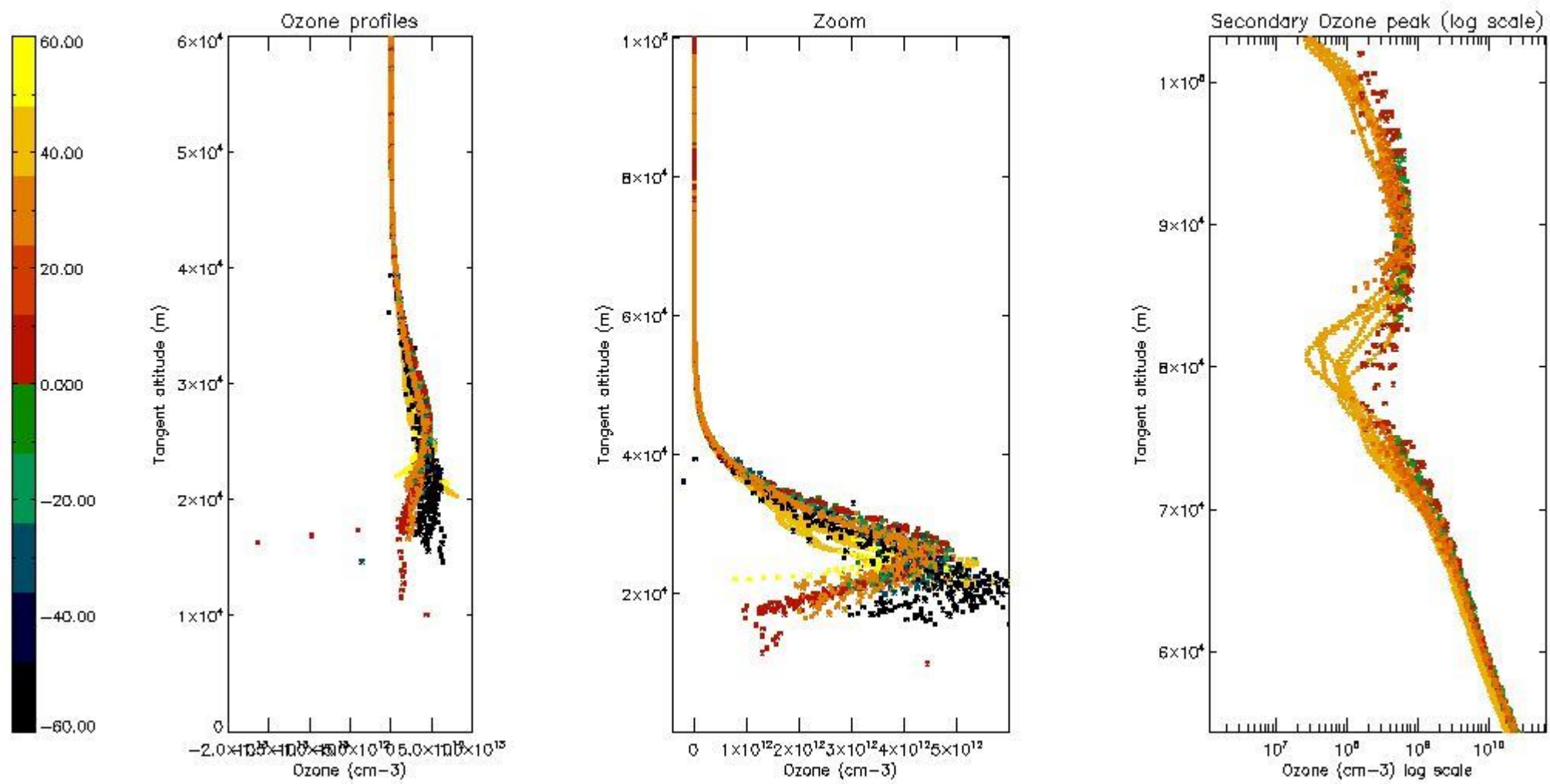
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



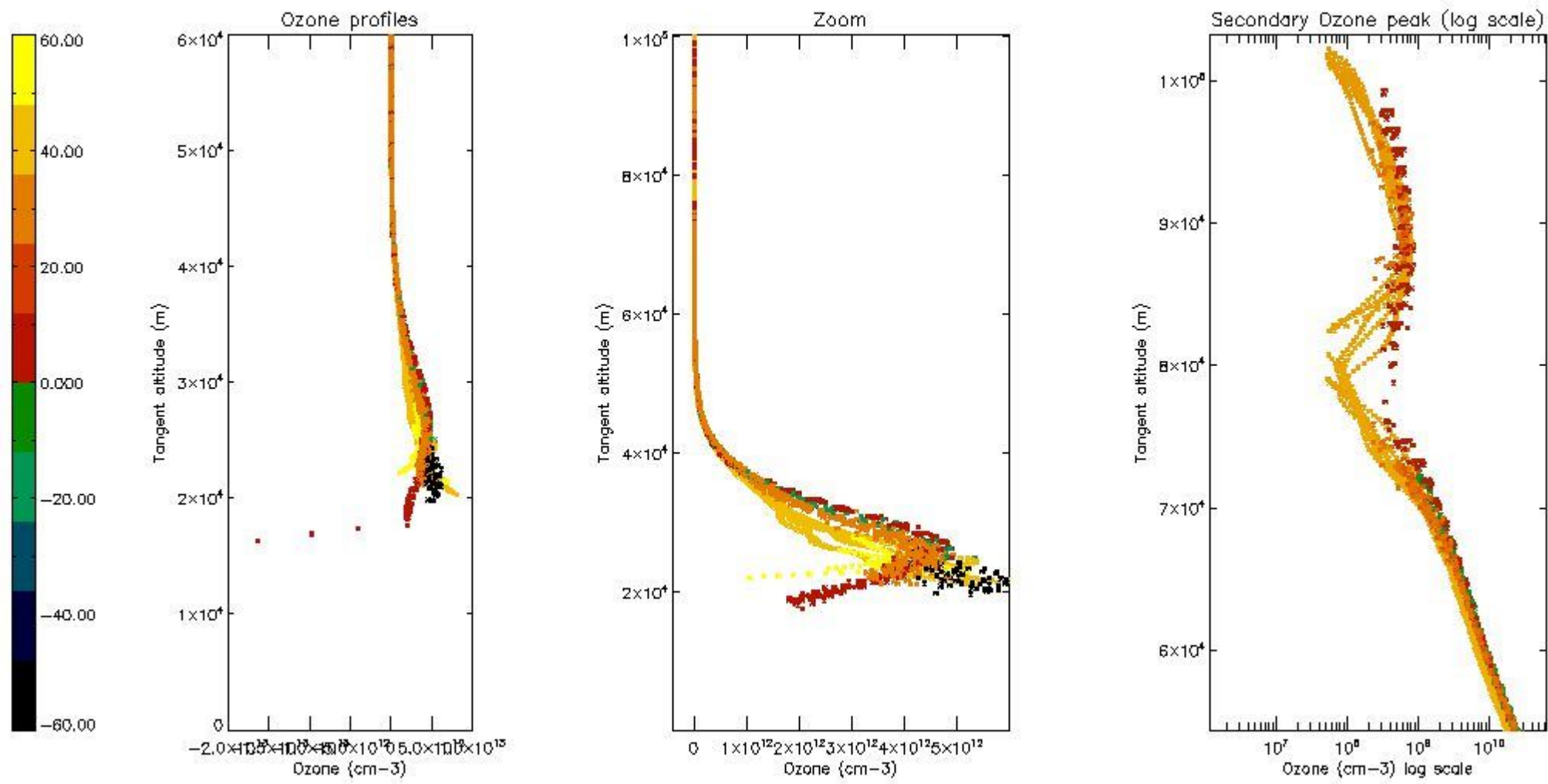
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



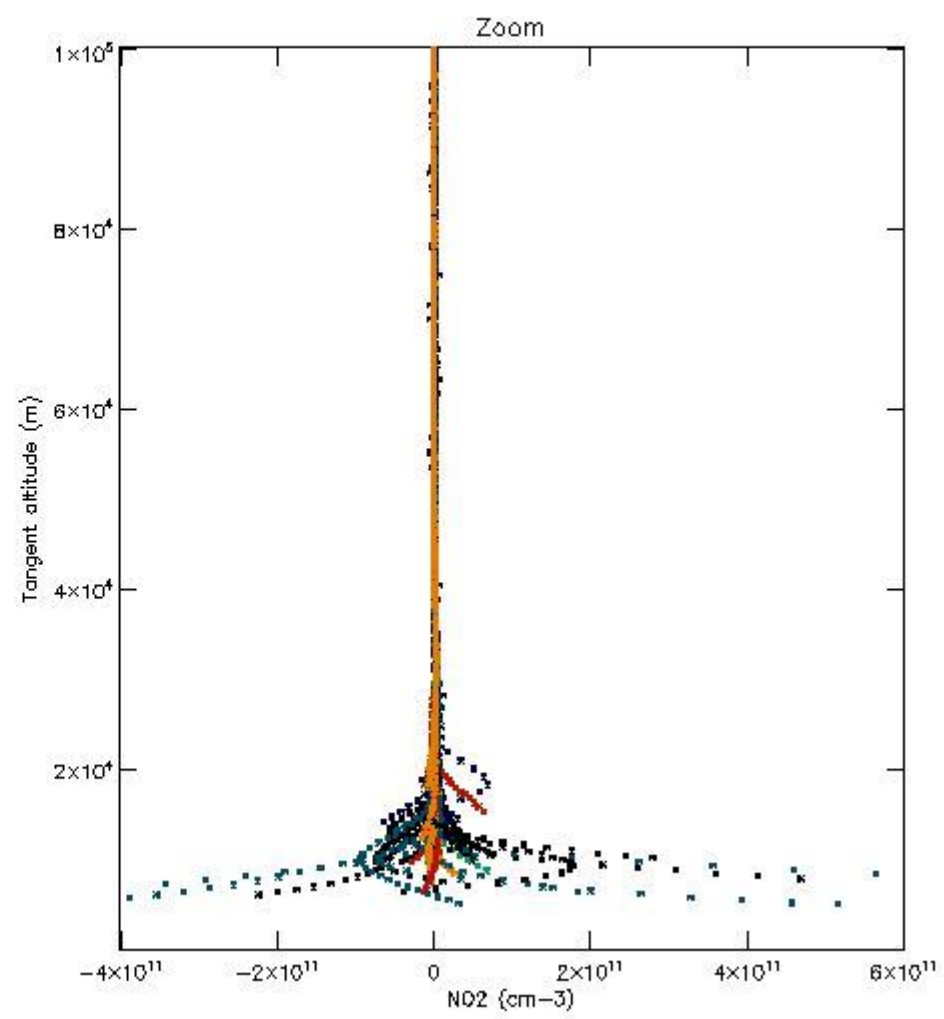
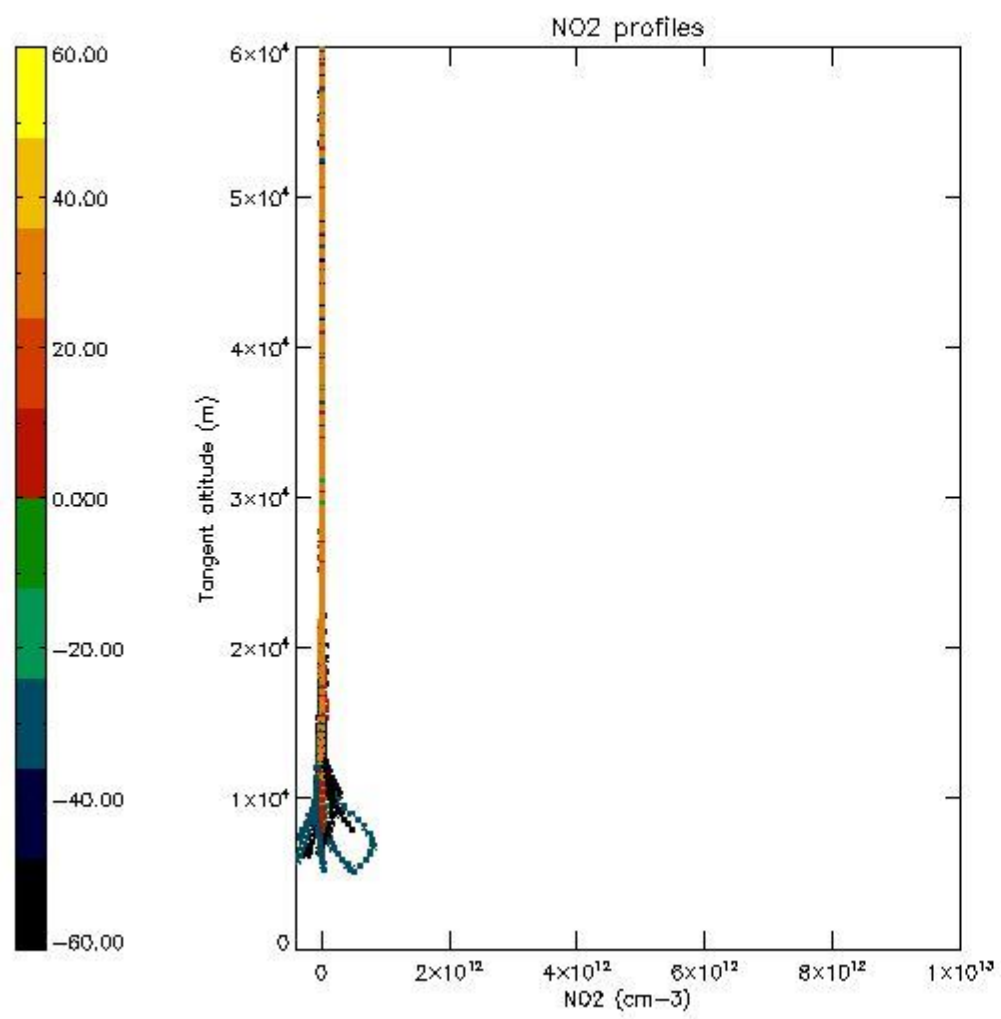
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



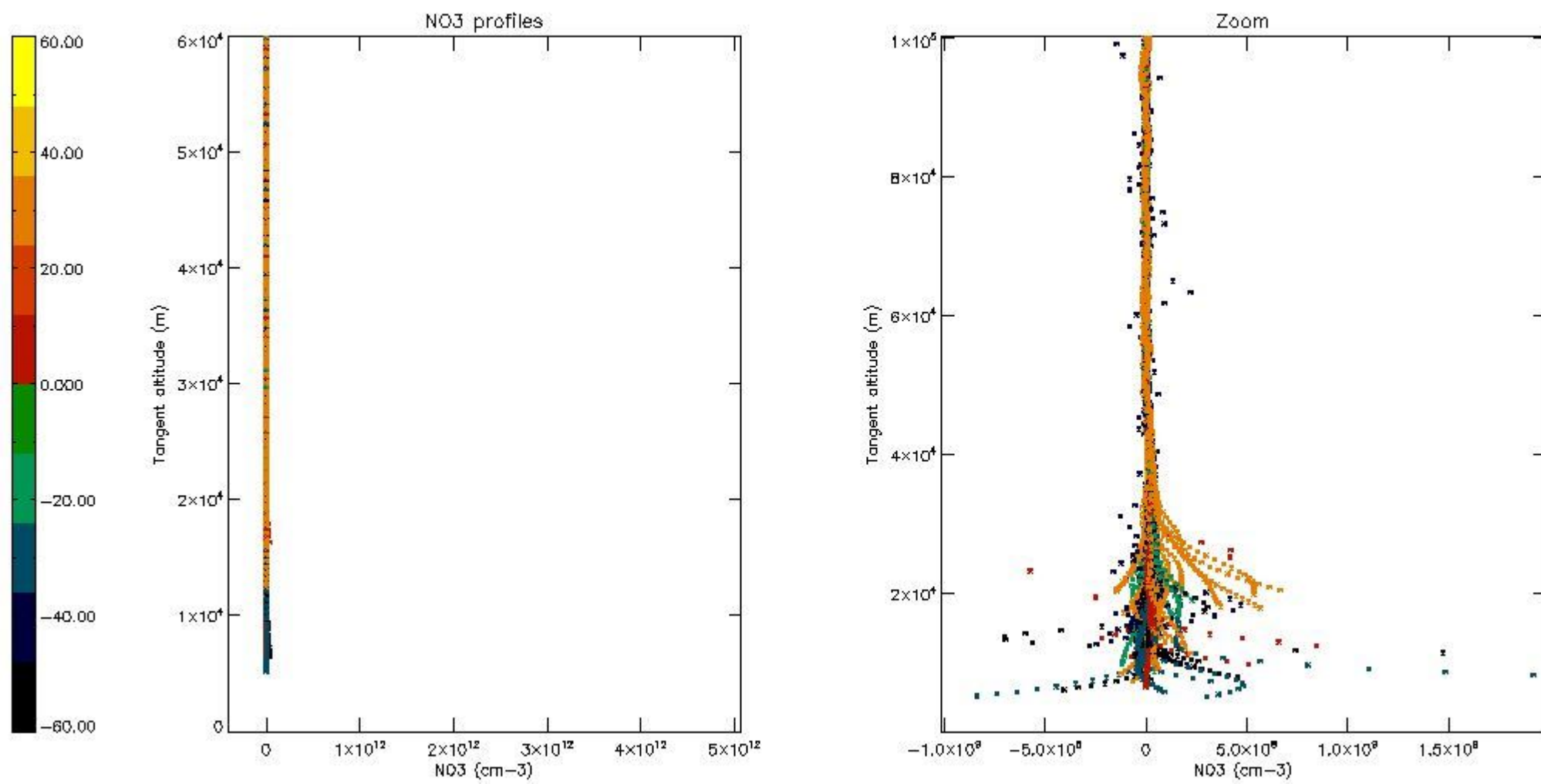
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



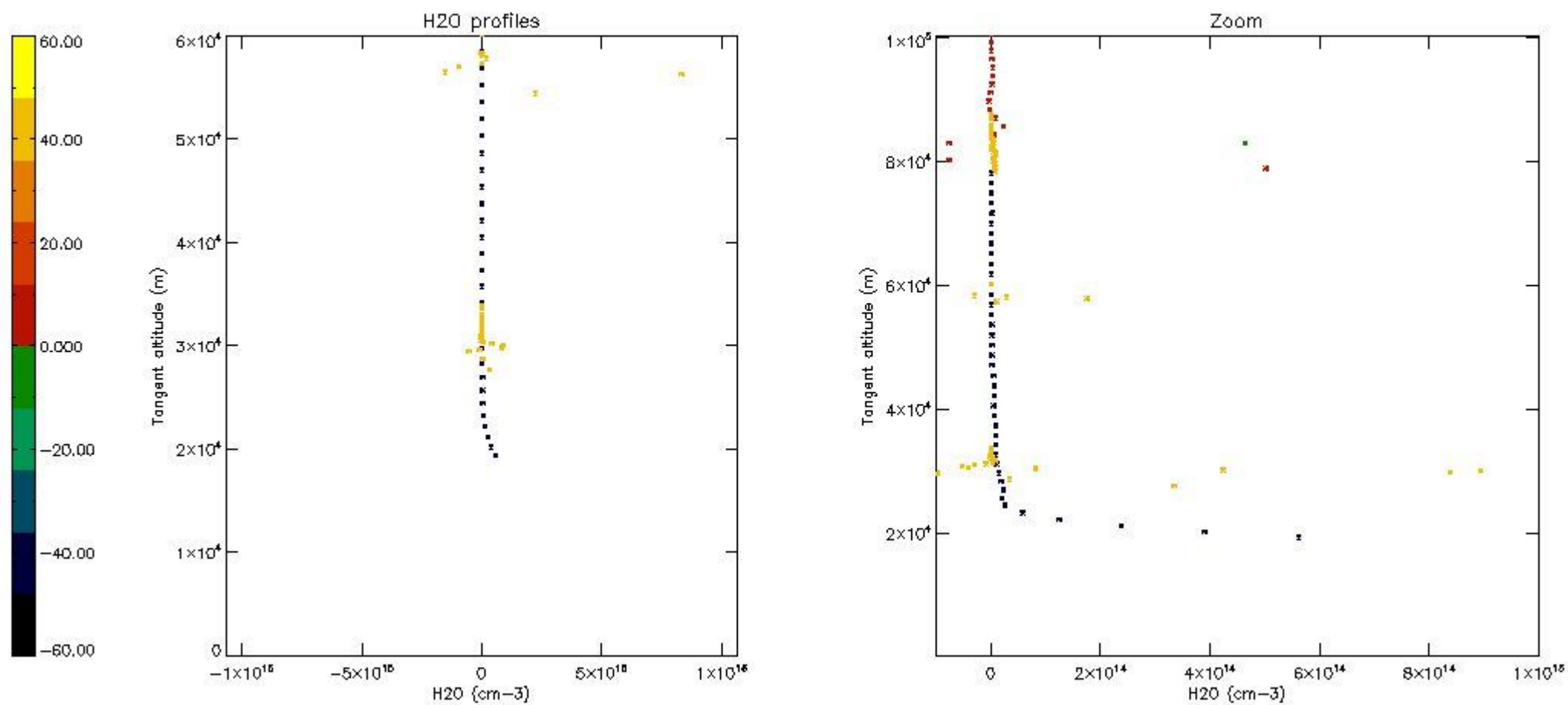
5.7 Plot NO3 profiles for all STD (dark without errors)

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	21-OCT-2004 00:04:01
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-OCT-2004 00:04:01
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-OCT-2004 00:04:01

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	19APR2013 13:37:17
Data source version	GOMOS/6.01
Start time of products	21-10-2004 (21OCT2004 00:00:00)
Stop time of products	22-10-2004 (22OCT2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	354
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

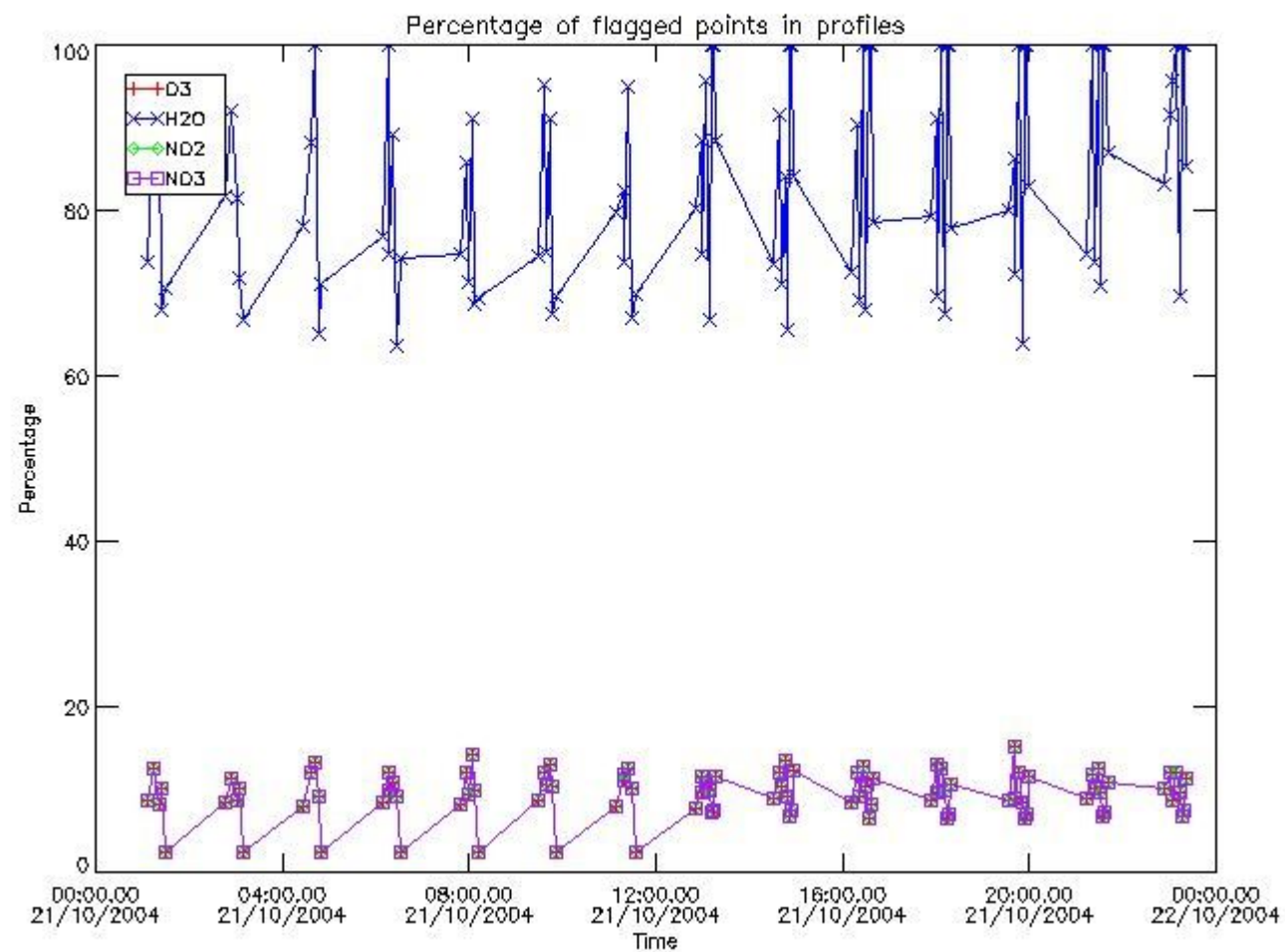
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20041021_000401_000000462031_00231_13812_5186.N1	21-OCT-2004 00:04:01	Straylight	45.500	52	16Bet Cet	2.0370	4500.0	91	13812	No
2	GOM_NL__2PRFIN20041021_001333_000000402031_00231_13812_5187.N1	21-OCT-2004 00:13:33	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	13812	No
3	GOM_NL__2PRFIN20041021_001559_000000452031_00231_13812_5188.N1	21-OCT-2004 00:15:59	Bright	44.500	105	6Bet Ari	2.6450	8900.0	89	13812	No
4	GOM_NL__2PRFIN20041021_001757_000000402031_00231_13812_5189.N1	21-OCT-2004 00:17:57	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	13812	No
5	GOM_NL__2PRFIN20041021_001937_000000432031_00231_13812_5190.N1	21-OCT-2004 00:19:37	Bright	42.500	53	43Bet And	2.0480	3300.0	85	13812	No
6	GOM_NL__2PRFIN20041021_002245_000000462031_00231_13812_5191.N1	21-OCT-2004 00:22:45	Bright	45.500	73	57Gam1And	2.2600	13100.	91	13812	No
7	GOM_NL__2PRFIN20041021_002519_000000402031_00231_13812_5192.N1	21-OCT-2004 00:25:19	Bright	40.000	68	18Alp Cas	2.2250	4500.0	80	13812	No
8	GOM_NL__2PRFIN20041021_002638_000000392031_00231_13812_5193.N1	21-OCT-2004 00:26:38	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	13812	No
9	GOM_NL__2PRFIN20041021_002849_000000392031_00231_13812_5194.N1	21-OCT-2004 00:28:49	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	13812	No
10	GOM_NL__2PRFIN20041021_003427_000000392031_00231_13812_5195.N1	21-OCT-2004 00:34:27	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	13812	No
11	GOM_NL__2PRFIN20041021_003748_000000402031_00231_13812_5196.N1	21-OCT-2004 00:37:48	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	13812	No
12	GOM_NL__2PRFIN20041021_004245_000000372031_00231_13812_5197.N1	21-OCT-2004 00:42:45	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	13812	No
13	GOM_NL__2PRFIN20041021_004418_000000382031_00231_13812_5198.N1	21-OCT-2004 00:44:18	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	13812	No
14	GOM_NL__2PRFIN20041021_004748_000000382031_00231_13812_5199.N1	21-OCT-2004 00:47:48	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	13812	No
15	GOM_NL__2PRFIN20041021_005620_000001362031_00231_13812_5200.N1	21-OCT-2004 00:56:20	Twilight	135.500	17	78Bet Gem	1.1610	4500.0	271	13812	No
16	GOM_NL__2PRFIN20041021_010620_000000602031_00231_13812_5201.N1	21-OCT-2004 01:06:20	Dark	59.500	48	30Alp Hya	1.9770	4100.0	119	13812	No
17	GOM_NL__2PRFIN20041021_011414_000000452031_00231_13812_5202.N1	21-OCT-2004 01:14:14	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	13812	No
18	GOM_NL__2PRFIN20041021_012135_000000632031_00232_13813_5182.N1	21-OCT-2004 01:21:35	Dark	63.000	117	Pi Pup	2.7060	3800.0	126	13813	No
19	GOM_NL__2PRFIN20041021_012443_000000512031_00232_13813_5183.N1	21-OCT-2004 01:24:43	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	13813	No
20	GOM_NL__2PRFIN20041021_012906_000002202031_00232_13813_5184.N1	21-OCT-2004 01:29:06	Dark	220.000	1	9Alp CMa	-1.4400	11000.	440	13813	No
21	GOM_NL__2PRFIN20041021_013601_000000502031_00232_13813_5185.N1	21-OCT-2004 01:36:01	Straylight	49.500	157	The1Eri	2.9060	9300.0	99	13813	No
22	GOM_NL__2PRFIN20041021_013807_000000432031_00232_13813_5186.N1	21-OCT-2004 01:38:07	Straylight	43.000	84	Alp Phe	2.3970	4500.0	86	13813	No
23	GOM_NL__2PRFIN20041021_014437_000000482031_00232_13813_5187.N1	21-OCT-2004 01:44:37	Straylight	48.000	52	16Bet Cet	2.0370	4500.0	96	13813	No
24	GOM_NL__2PRFIN20041021_015409_000000412031_00232_13813_5188.N1	21-OCT-2004 01:54:09	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	13813	No
25	GOM_NL__2PRFIN20041021_015634_000000462031_00232_13813_5189.N1	21-OCT-2004 01:56:34	Bright	45.500	105	6Bet Ari	2.6450	8900.0	91	13813	No
26	GOM_NL__2PRFIN20041021_015833_000000422031_00232_13813_5190.N1	21-OCT-2004 01:58:33	Bright	41.500	93	53Bet Peg	2.5200	3100.0	83	13813	No
27	GOM_NL__2PRFIN20041021_020011_000000452031_00232_13813_5191.N1	21-OCT-2004 02:00:11	Bright	45.000	53	43Bet And	2.0480	3300.0	90	13813	No
28	GOM_NL__2PRFIN20041021_020321_000000442031_00232_13813_5192.N1	21-OCT-2004 02:03:21	Bright	43.500	73	57Gam1And	2.2600	13100.	87	13813	No
29	GOM_NL__2PRFIN20041021_020553_000000432031_00232_13813_5193.N1	21-OCT-2004 02:05:53	Bright	43.000	68	18Alp Cas	2.2250	4500.0	86	13813	No
30	GOM_NL__2PRFIN20041021_020713_000000392031_00232_13813_5194.N1	21-OCT-2004 02:07:13	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	13813	No
31	GOM_NL__2PRFIN20041021_020925_000000382031_00232_13813_5195.N1	21-OCT-2004 02:09:25	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	13813	No
32	GOM_NL__2PRFIN20041021_021505_000000352031_00232_13813_5196.N1	21-OCT-2004 02:15:05	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	13813	No
33	GOM_NL__2PRFIN20041021_021822_000000422031_00232_13813_5197.N1	21-OCT-2004 02:18:22	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	13813	No
34	GOM_NL__2PRFIN20041021_022321_000000392031_00232_13813_5198.N1	21-OCT-2004 02:23:21	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	13813	No
35	GOM_NL__2PRFIN20041021_022455_000000402031_00232_13813_5199.N1	21-OCT-2004 02:24:55	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	13813	No
36	GOM_NL__2PRFIN20041021_022824_000000382031_00232_13813_5200.N1	21-OCT-2004 02:28:24	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	13813	No
37	GOM_NL__2PRFIN20041021_023656_000001462031_00232_13813_5201.N1	21-OCT-2004 02:36:56	Twilight	146.000	17	78Bet Gem	1.1610	4500.0	292	13813	No
38	GOM_NL__2PRFIN20041021_024657_000000612031_00232_13813_5202.N1	21-OCT-2004 02:46:57	Dark	60.500	48	30Alp Hya	1.9770	4100.0	121	13813	No
39	GOM_NL__2PRFIN20041021_025452_000000452031_00232_13813_5203.N1	21-OCT-2004 02:54:52	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	13813	No
40	GOM_NL__2PRFIN20041021_030212_000000602031_00233_13814_5182.N1	21-OCT-2004 03:02:12	Dark	59.500	117	Pi Pup	2.7060	3800.0	119	13814	No
41	GOM_NL__2PRFIN20041021_030520_000000502031_00233_13814_5183.N1	21-OCT-2004 03:05:20	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	13814	No
42	GOM_NL__2PRFIN20041021_030946_000002202031_00233_13814_5184.N1	21-OCT-2004 03:09:46	Dark	220.000	1	9Alp CMa	-1.4400	11000.	440	13814	No

338	GOM_NL__2PRFIN20041021_230833_000000422031_00245_13826_5203.N1	21-OCT-2004 23:08:33	Dark	42.000	29	Bet Car	1.6720	10200.	84	13826	No
339	GOM_NL__2PRFIN20041021_231238_000000532031_00245_13826_5204.N1	21-OCT-2004 23:12:38	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	13826	No
340	GOM_NL__2PRFIN20041021_231544_000000772031_00245_13826_5205.N1	21-OCT-2004 23:15:44	Dark	76.500	177	1Zet CMa	3.0220	26000.	153	13826	No
341	GOM_NL__2PRFIN20041021_231817_000000692031_00245_13826_5206.N1	21-OCT-2004 23:18:17	Dark	68.500	108	Alp Col	2.6520	15200.	137	13826	No
342	GOM_NL__2PRFIN20041021_232102_000000452031_00245_13826_5207.N1	21-OCT-2004 23:21:02	Dark	45.000	9	Alp Eri	0.45300	24000.	90	13826	No
343	GOM_NL__2PRFIN20041021_232355_000000482031_00245_13826_5208.N1	21-OCT-2004 23:23:55	Straylight	48.000	157	The1Eri	2.9060	9300.0	96	13826	No
344	GOM_NL__2PRFIN20041021_232557_000000432031_00245_13826_5209.N1	21-OCT-2004 23:25:57	Straylight	42.500	84	Alp Phe	2.3970	4500.0	85	13826	No
345	GOM_NL__2PRFIN20041021_232839_000002132031_00245_13826_5210.N1	21-OCT-2004 23:28:39	Twilight_stray	213.00	101	11Alp Lep	2.5820	7000.0	426	13826	No
346	GOM_NL__2PRFIN20041021_233309_000000942031_00245_13826_5211.N1	21-OCT-2004 23:33:09	Twilight_stray	94.000	165	34Gam Eri	2.9500	3200.0	188	13826	No
347	GOM_NL__2PRFIN20041021_234200_000000382031_00245_13826_5212.N1	21-OCT-2004 23:42:00	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	13826	No
348	GOM_NL__2PRFIN20041021_234417_000000442031_00245_13826_5213.N1	21-OCT-2004 23:44:17	Bright	43.500	105	6Bet Ari	2.6450	8900.0	87	13826	No
349	GOM_NL__2PRFIN20041021_234553_000000382031_00245_13826_5214.N1	21-OCT-2004 23:45:53	Bright	37.500	58	21Alp And	2.0730	11000.	75	13826	No
350	GOM_NL__2PRFIN20041021_234758_000000412031_00245_13826_5215.N1	21-OCT-2004 23:47:58	Bright	40.500	53	43Bet And	2.0480	3300.0	81	13826	No
351	GOM_NL__2PRFIN20041021_235101_000000442031_00245_13826_5216.N1	21-OCT-2004 23:51:01	Bright	44.000	73	57Gam1And	2.2600	13100.	88	13826	No
352	GOM_NL__2PRFIN20041021_235341_000000402031_00245_13826_5217.N1	21-OCT-2004 23:53:41	Bright	39.500	68	18Alp Cas	2.2250	4500.0	79	13826	No
353	GOM_NL__2PRFIN20041021_235458_000000402031_00245_13826_5218.N1	21-OCT-2004 23:54:58	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	13826	No
354	GOM_NL__2PRFIN20041021_235718_000000382031_00245_13826_5219.N1	21-OCT-2004 23:57:18	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	13826	No

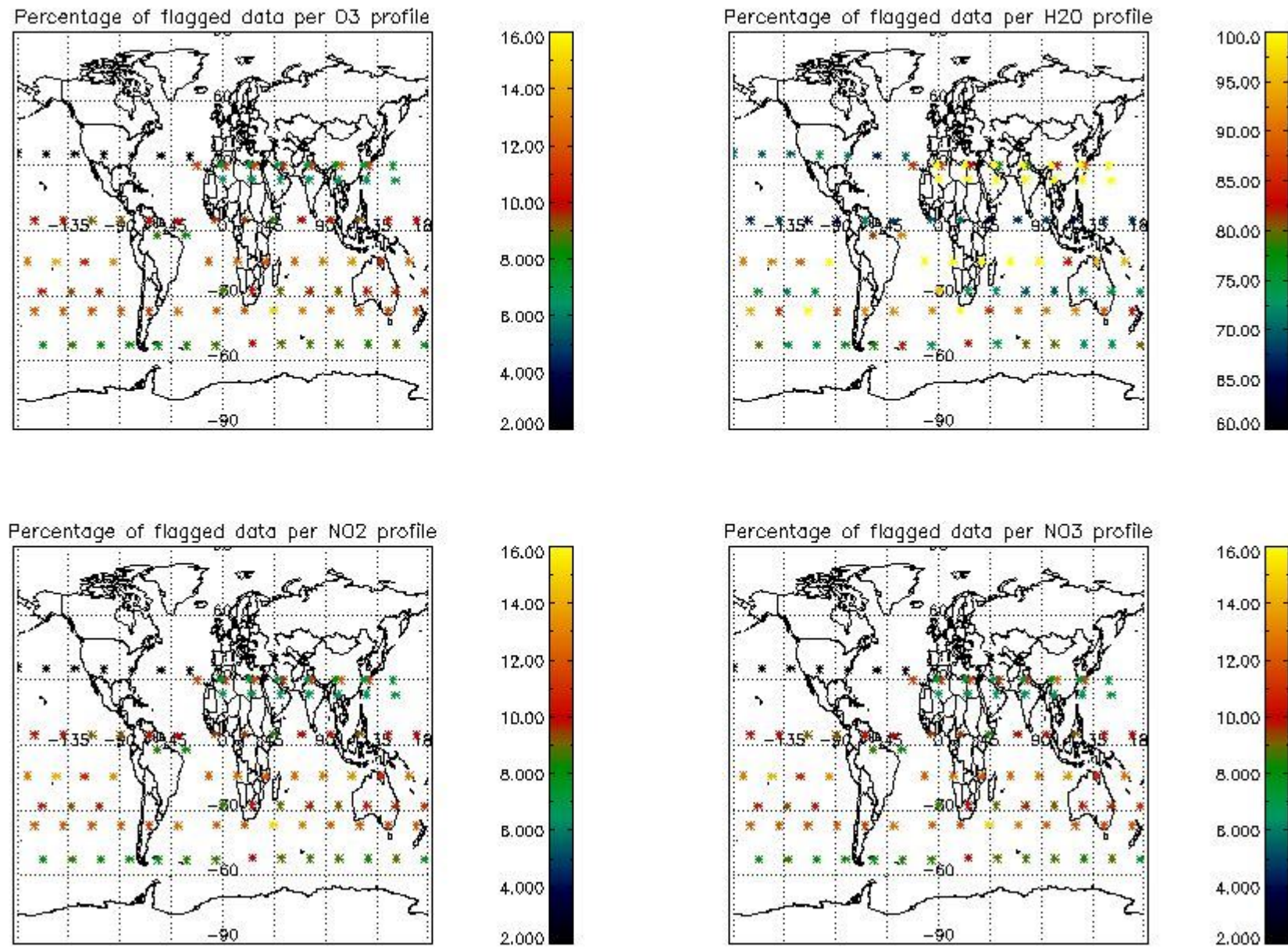
3. Quality information per product

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)

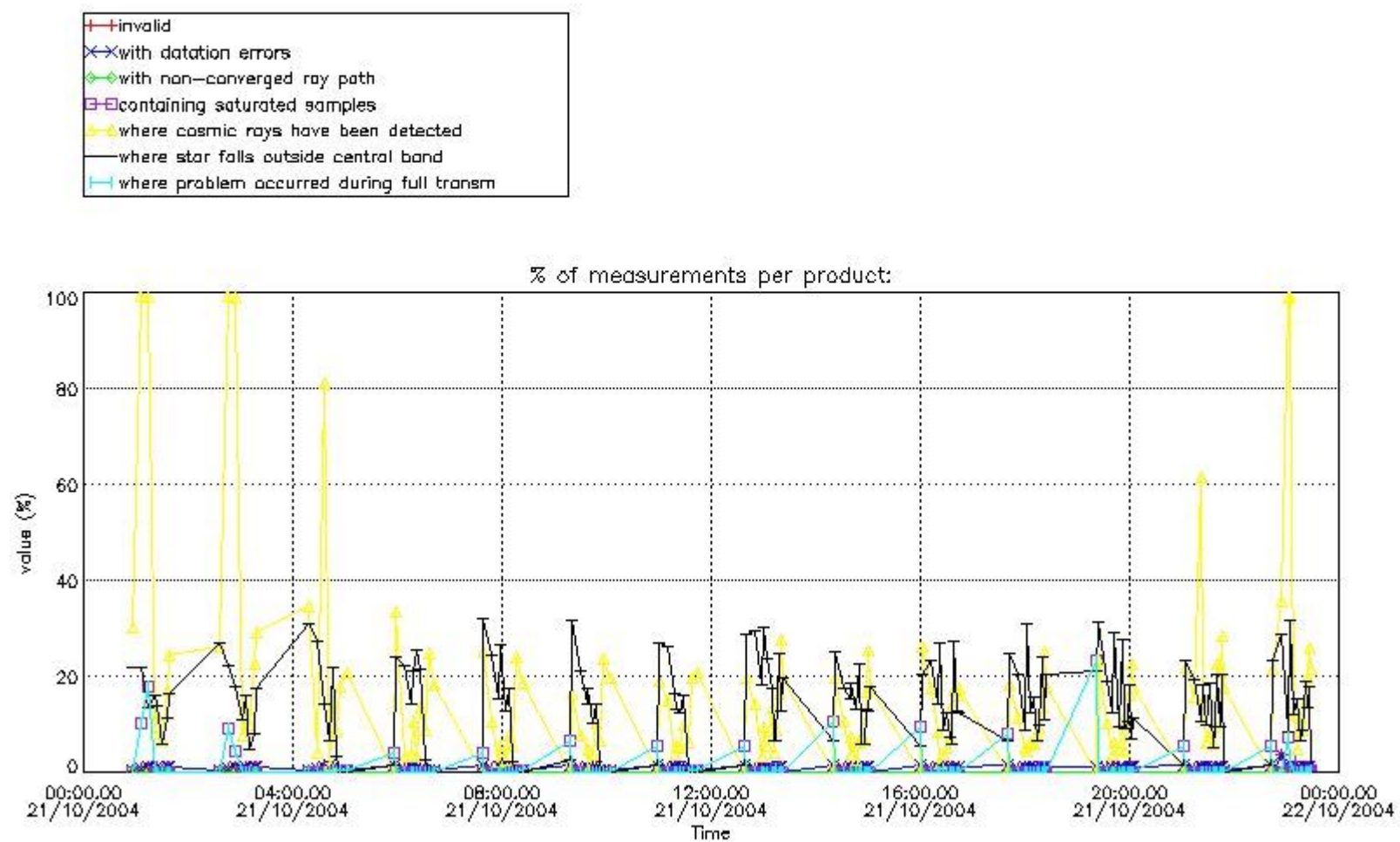


4. Level 1 quality information per product

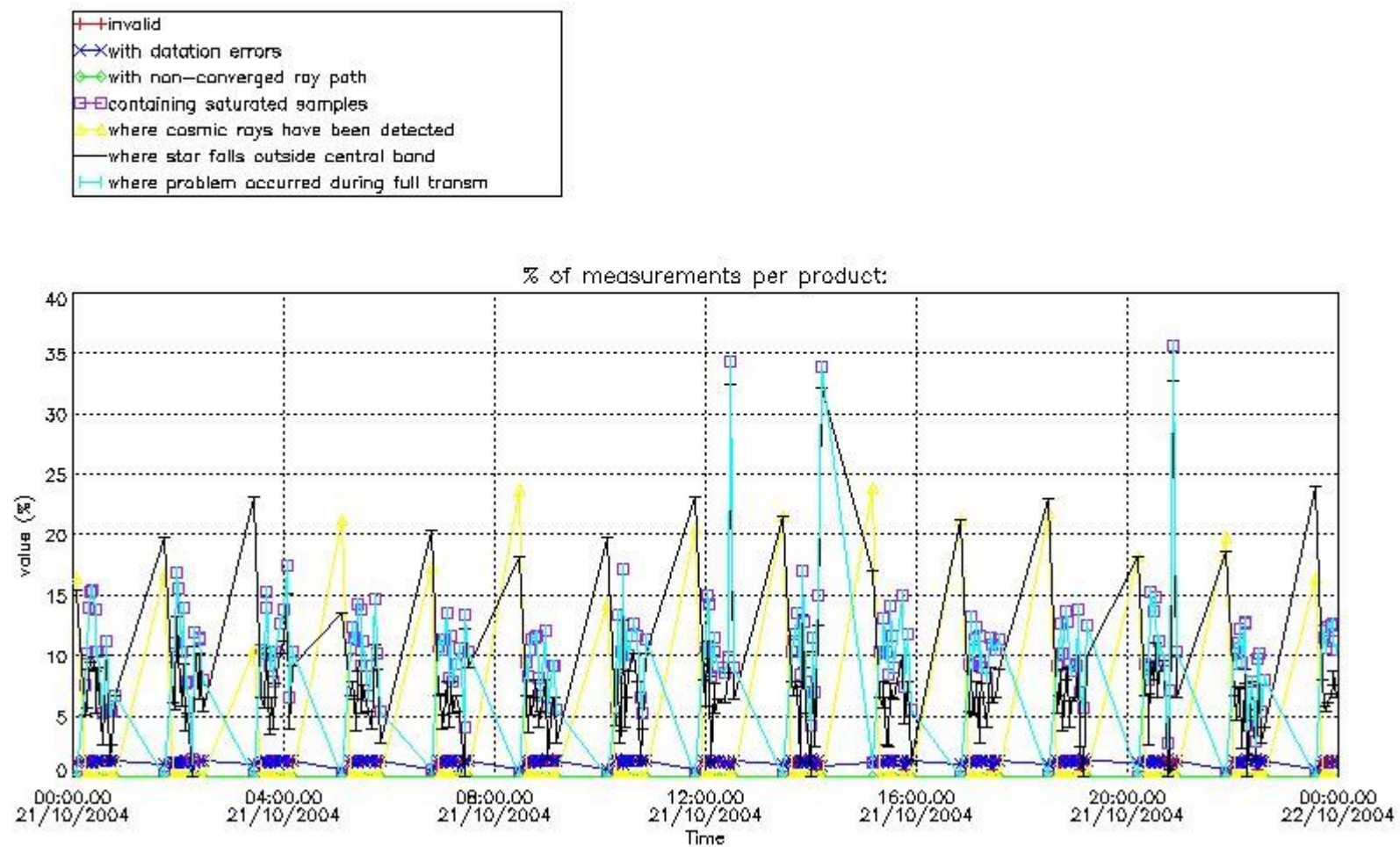
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



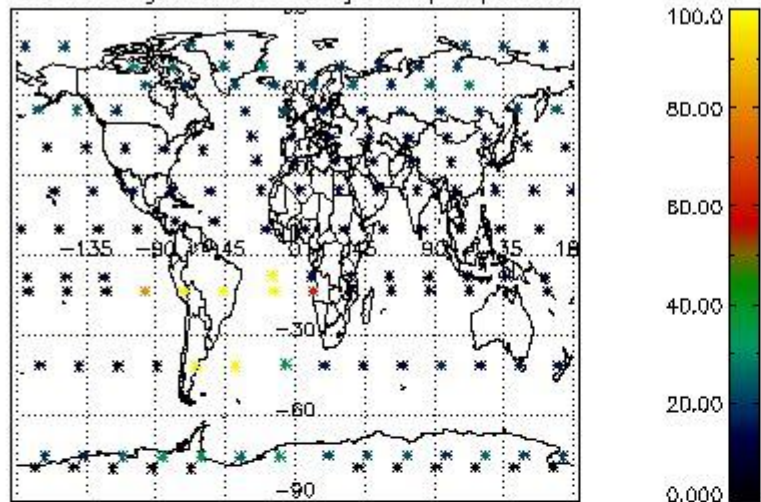
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



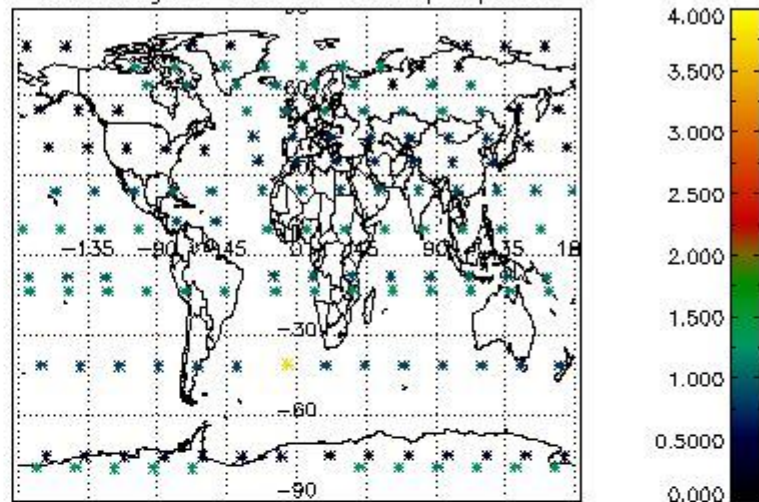
4.2 Plot quality information per product coming from level 1b processing (world map)

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

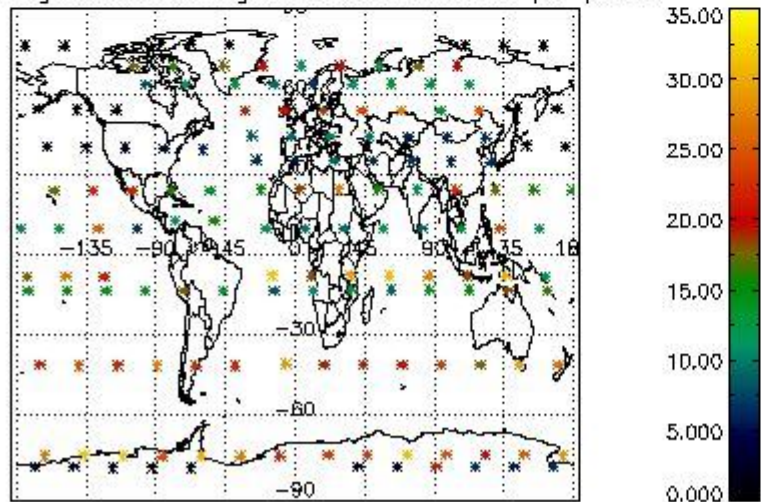
Percentage of cosmic ray hits per profile



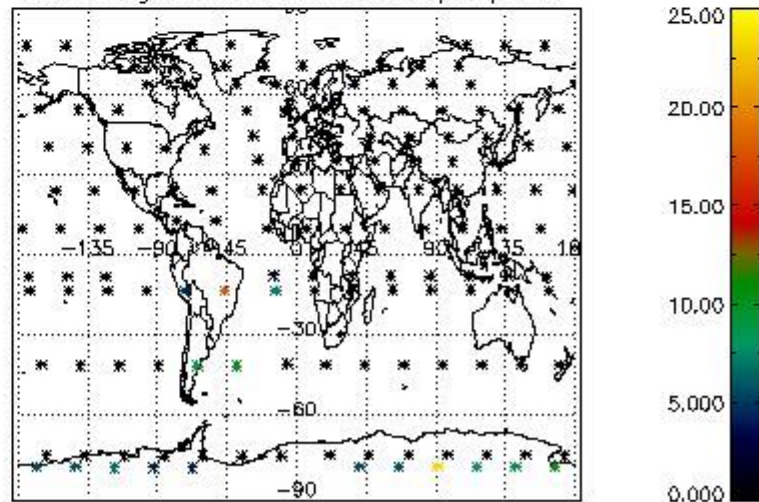
Percentage of datation errors per profile



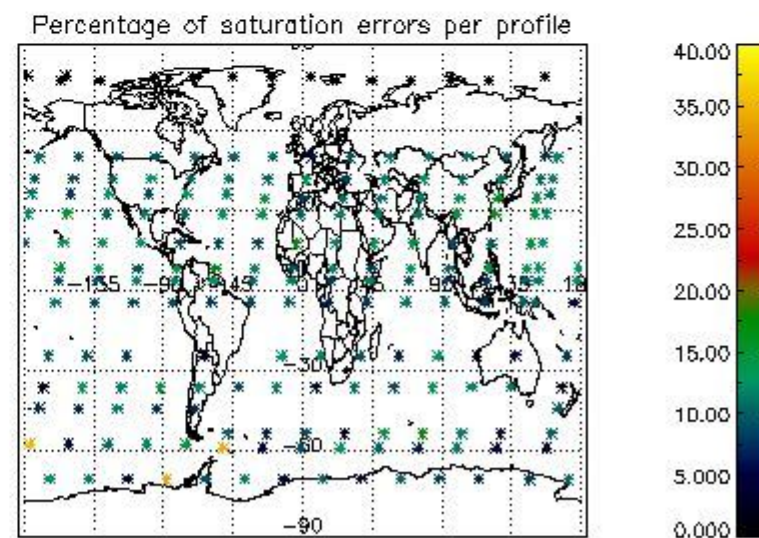
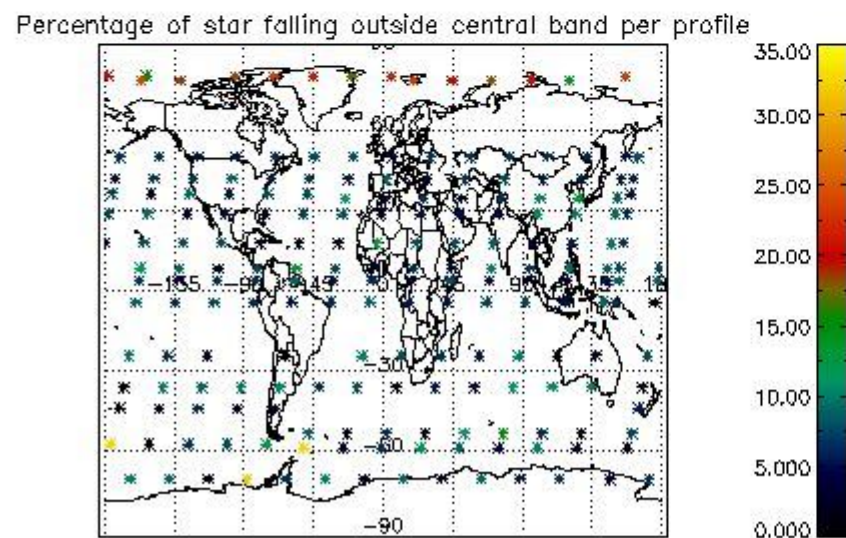
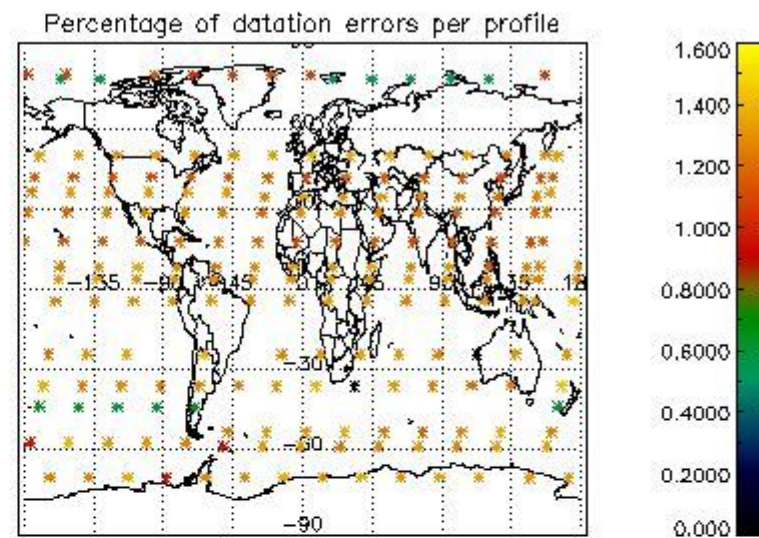
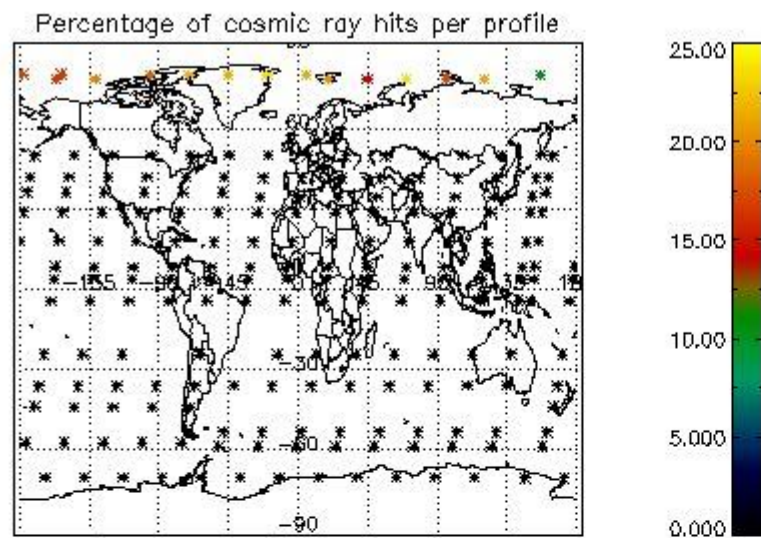
Percentage of star falling outside central band per profile



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

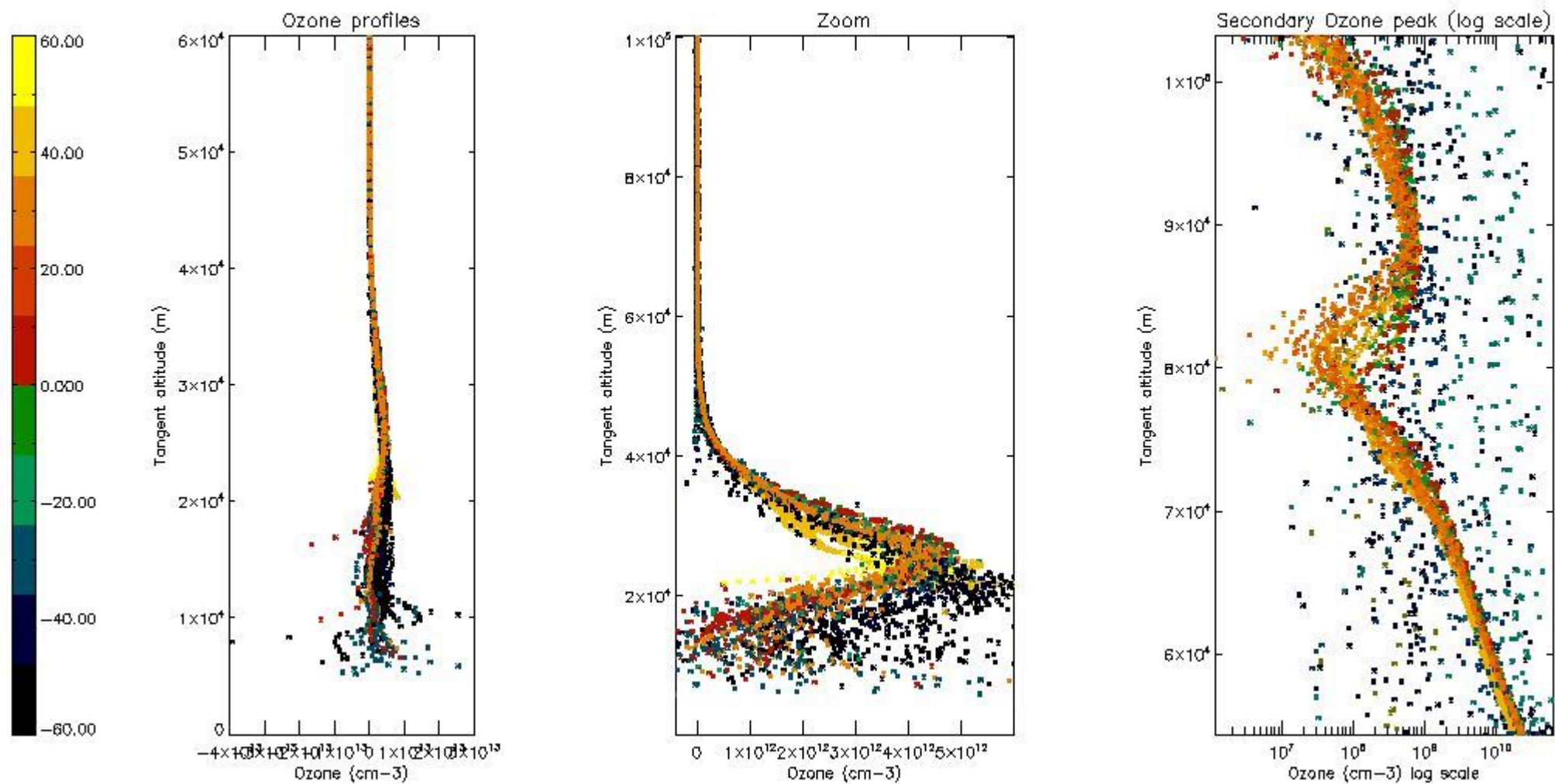
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	18

STD < 10	16
STD < 5	13

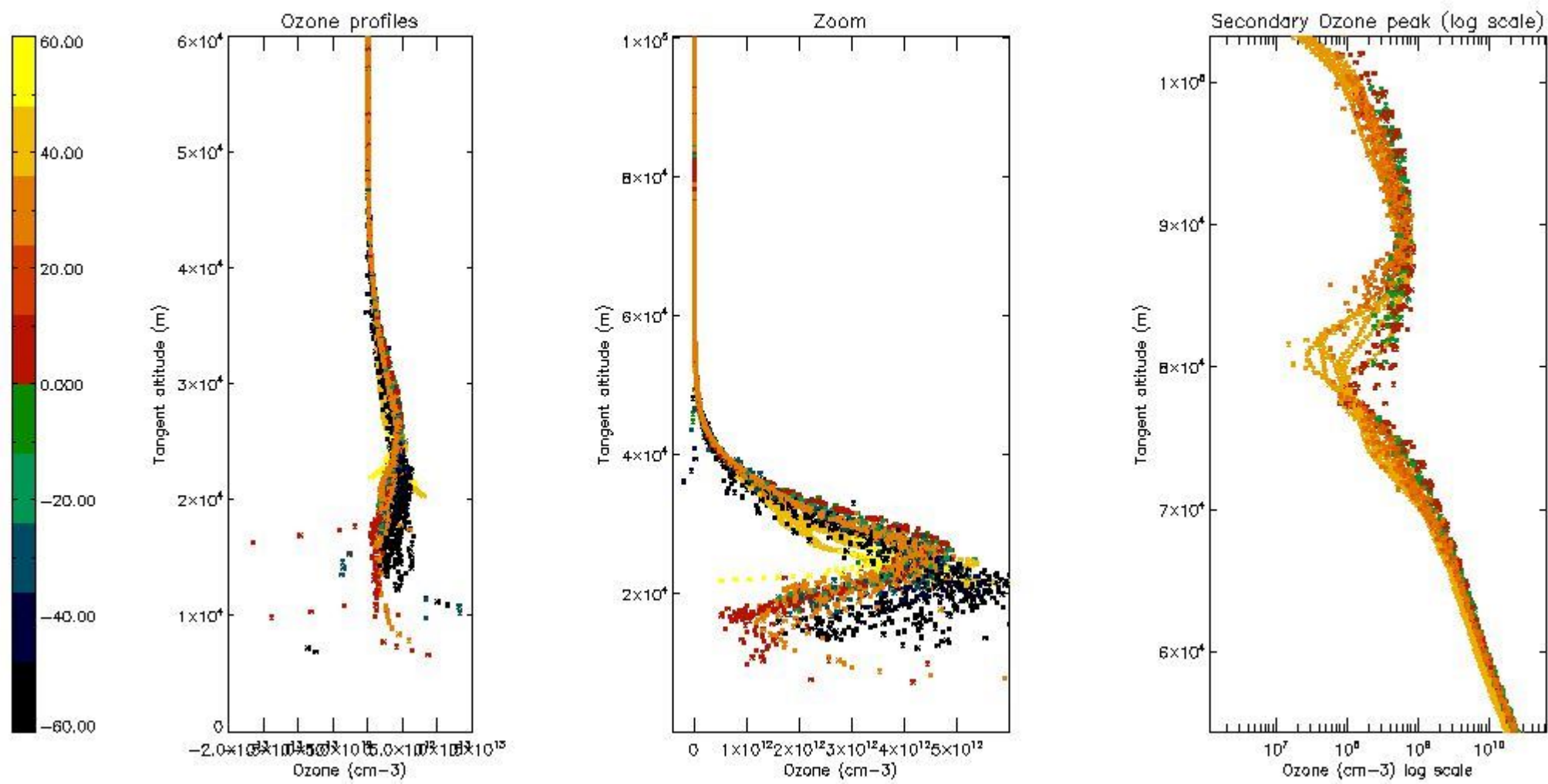
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



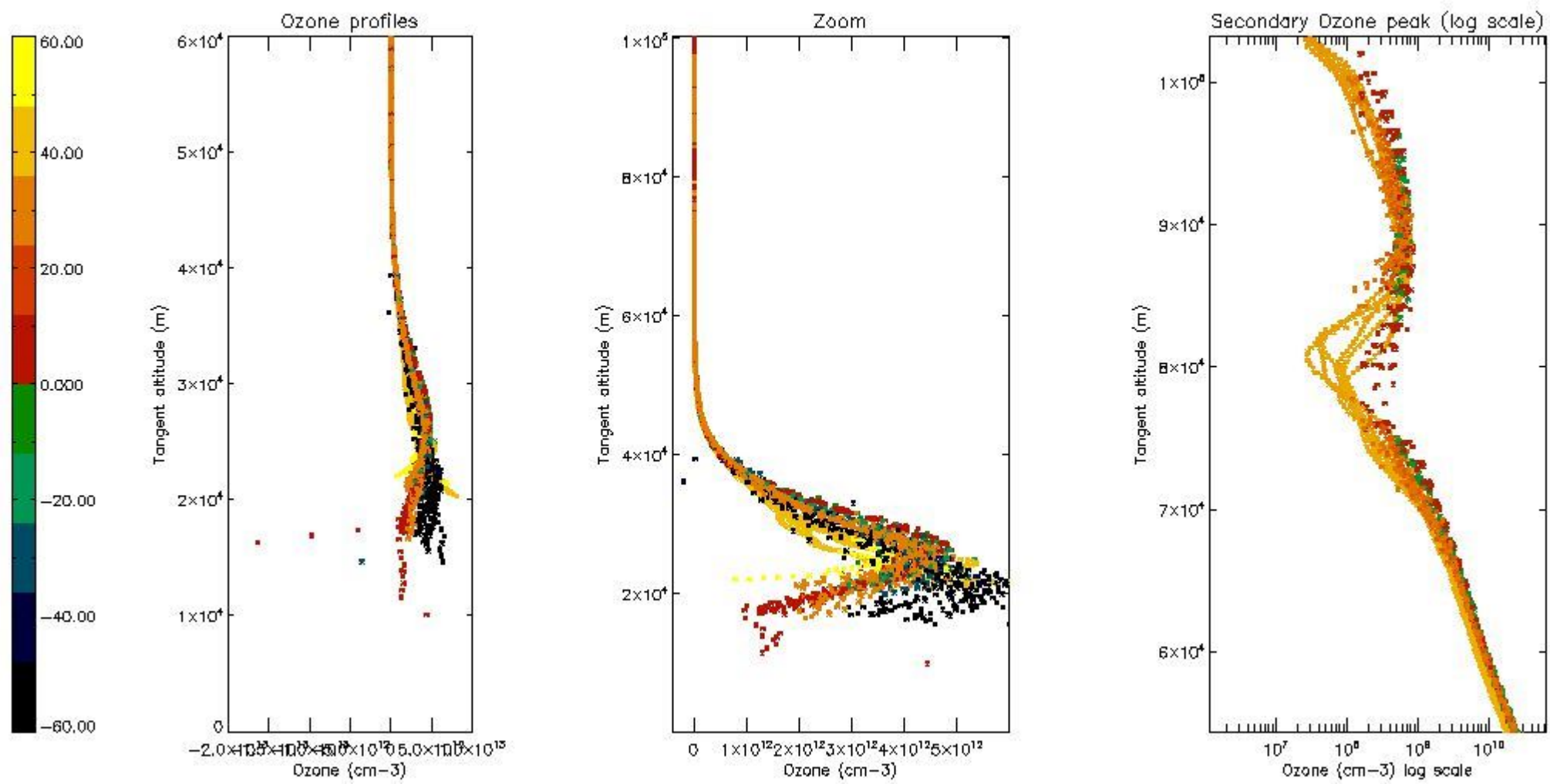
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



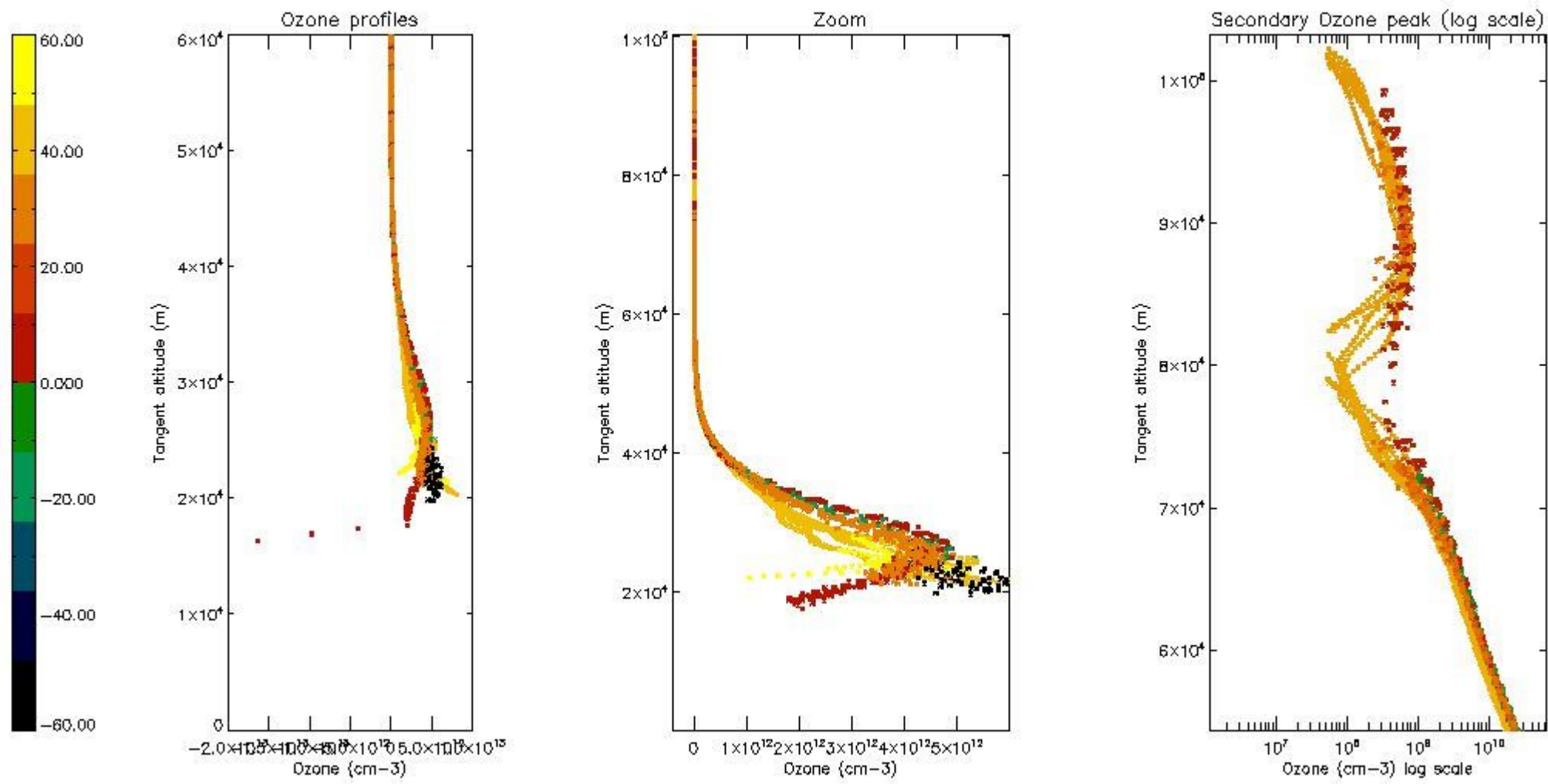
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



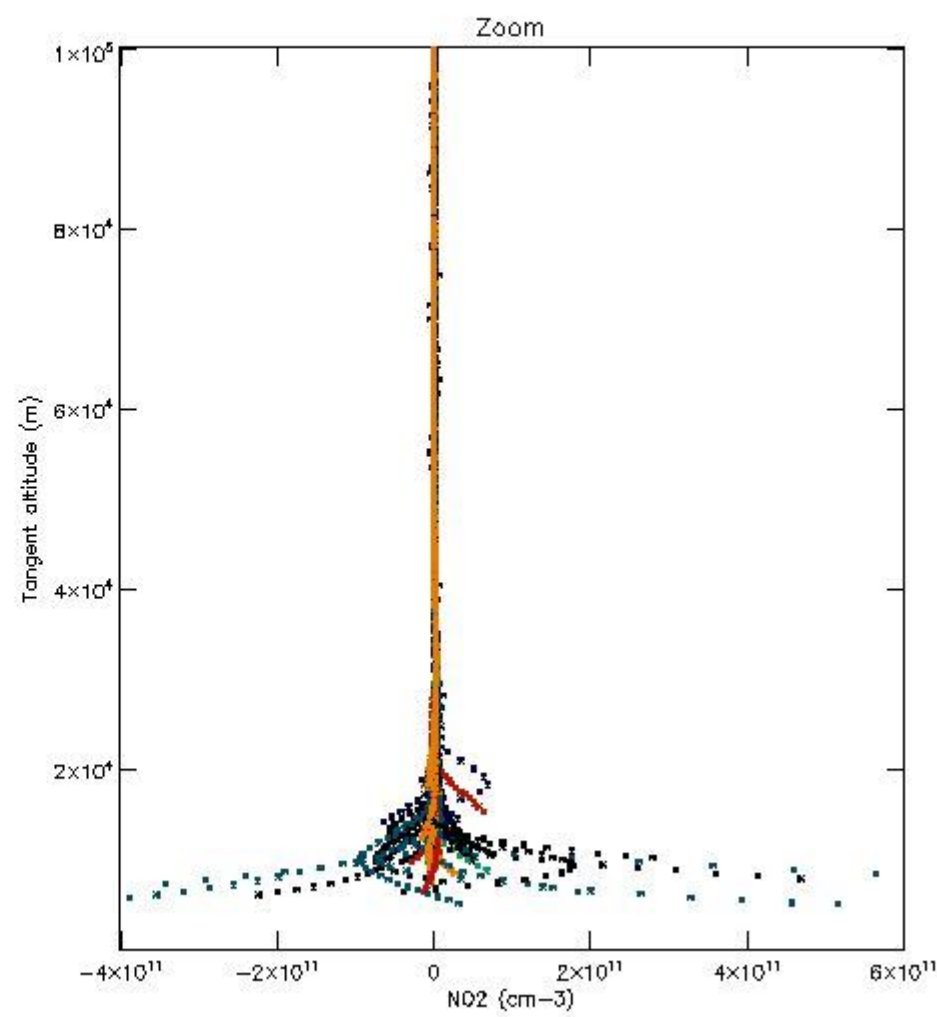
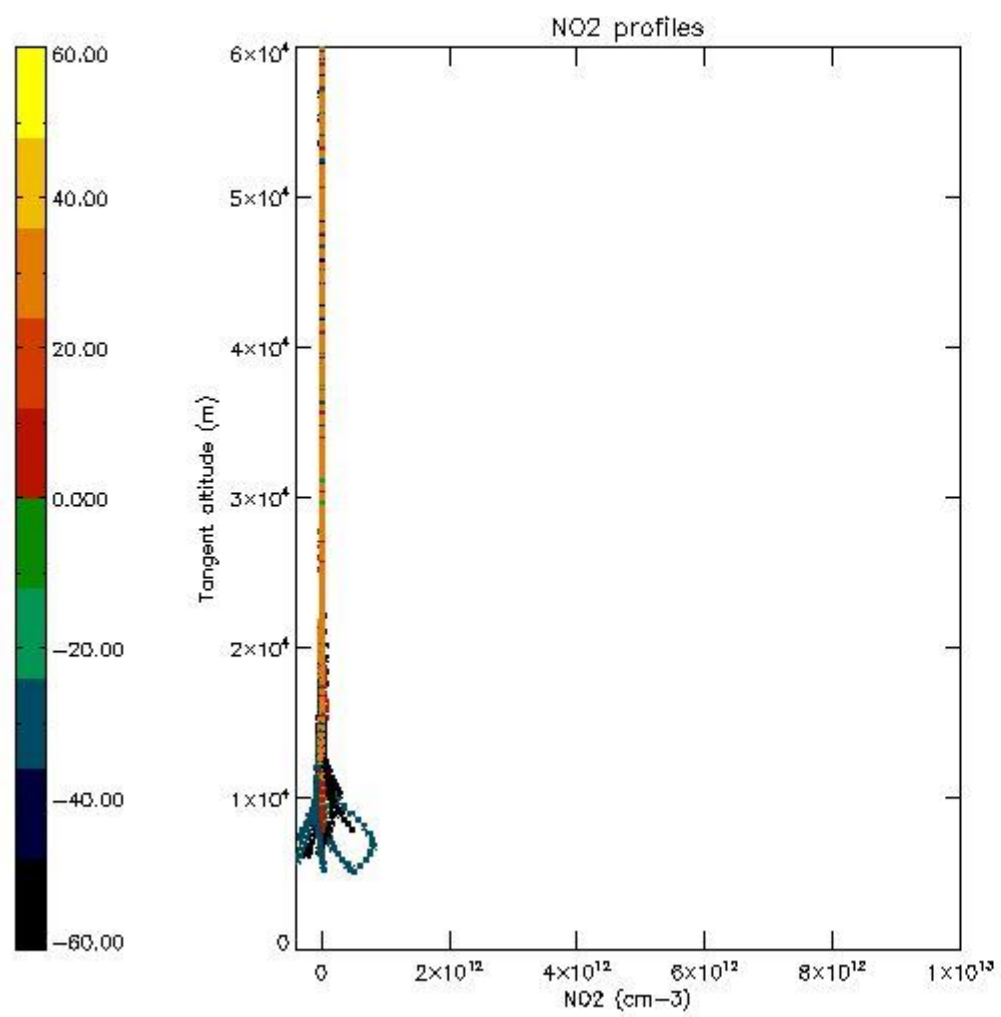
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



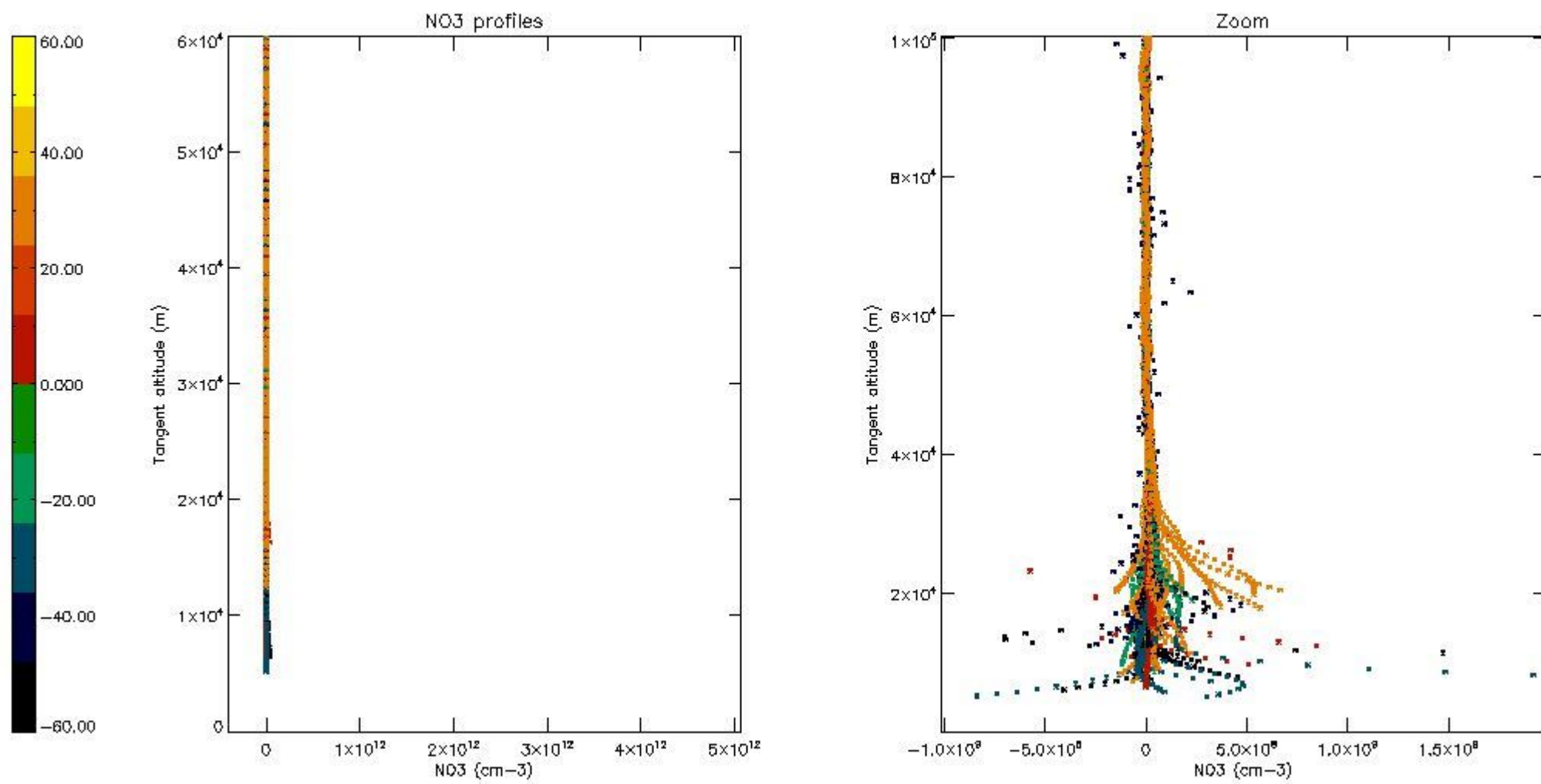
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



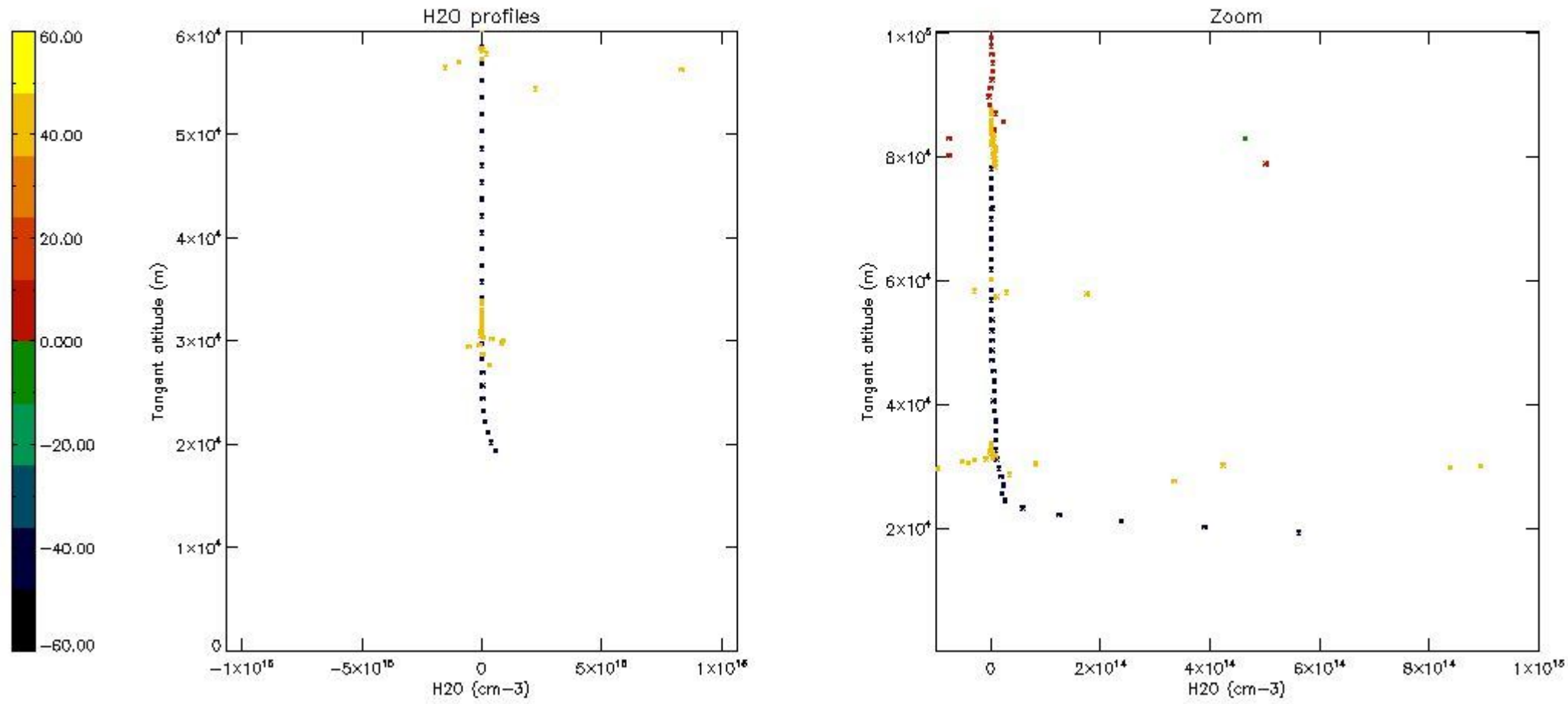
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

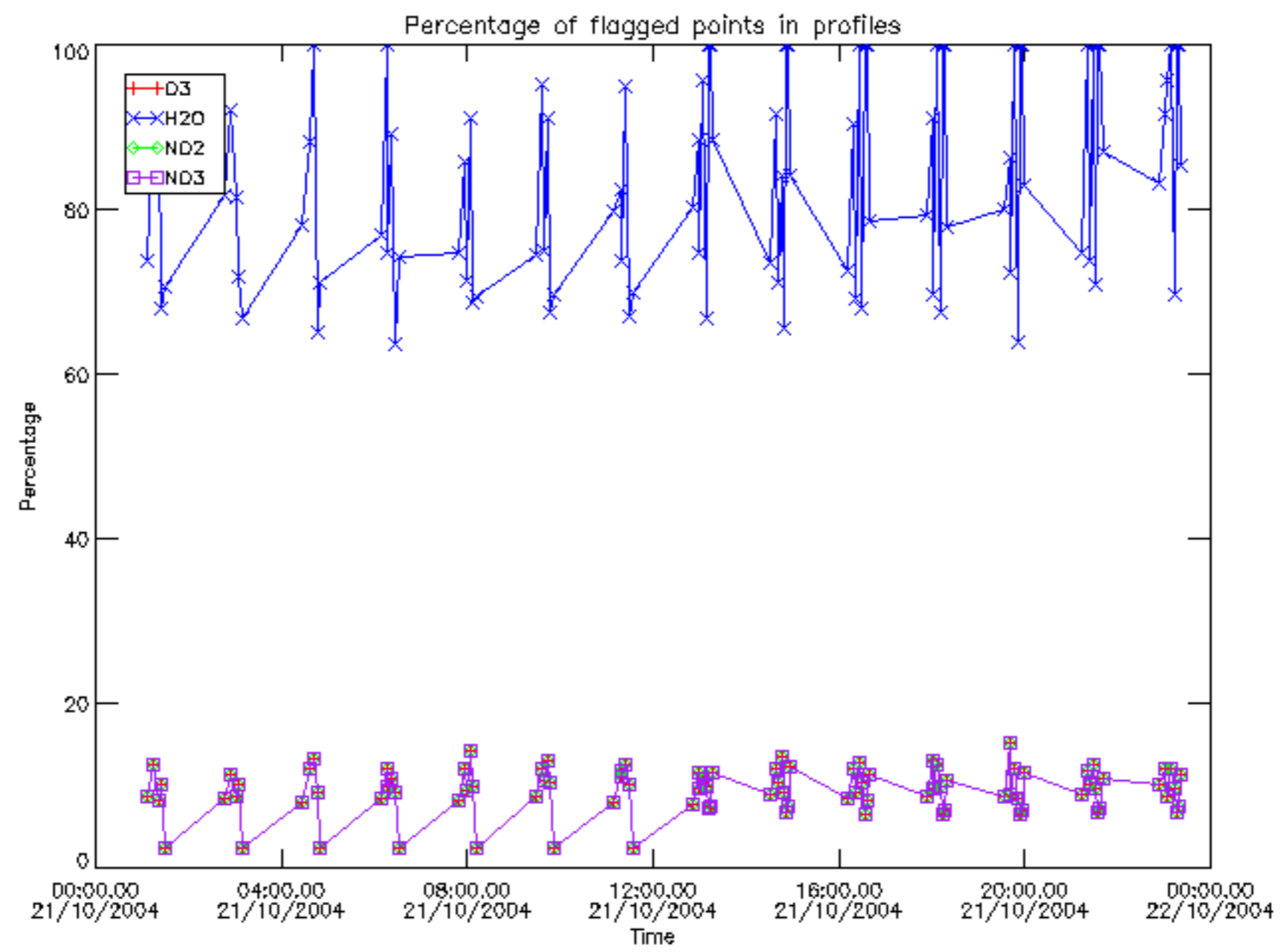
The colorbar represents the latitude.



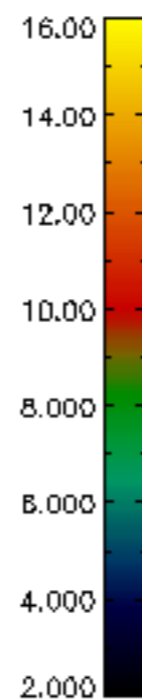
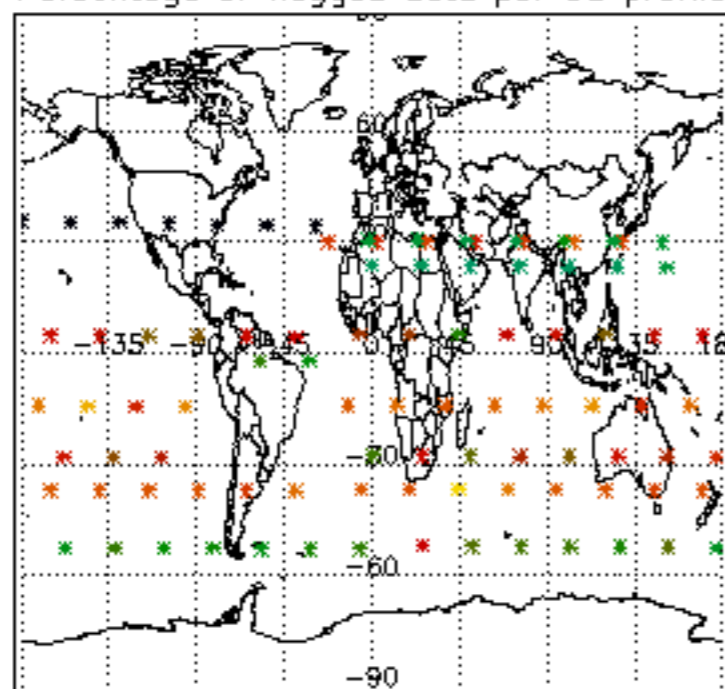
6. Auxiliary Data Files used for the production reported in section 2

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.

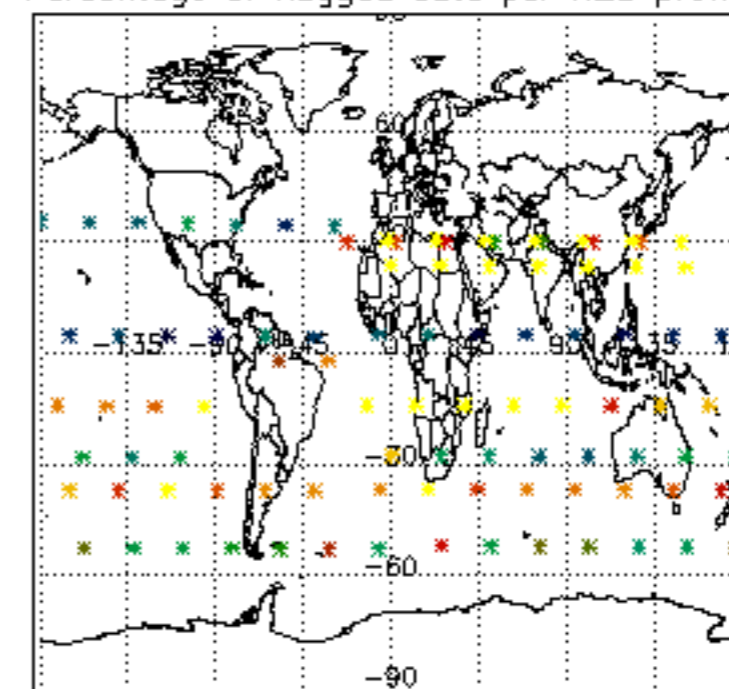
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	21-OCT-2004 00:04:01
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-OCT-2004 00:04:01
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-OCT-2004 00:04:01



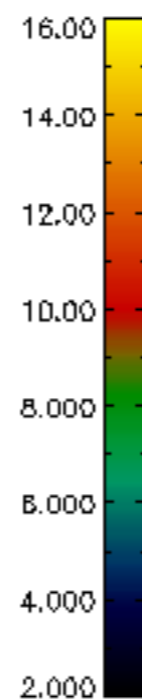
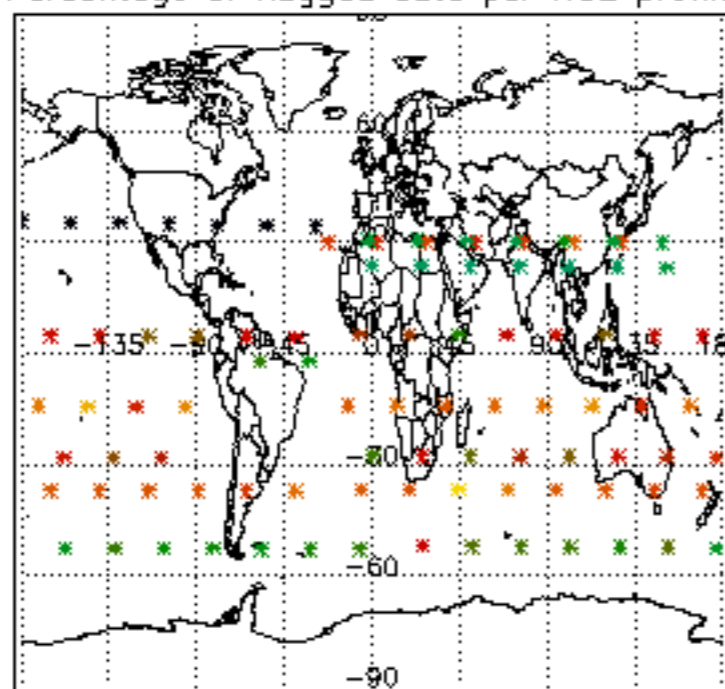
Percentage of flagged data per D3 profile



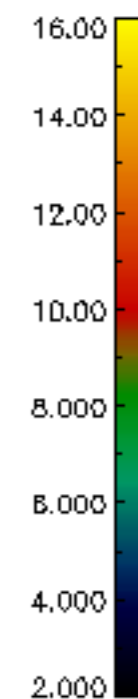
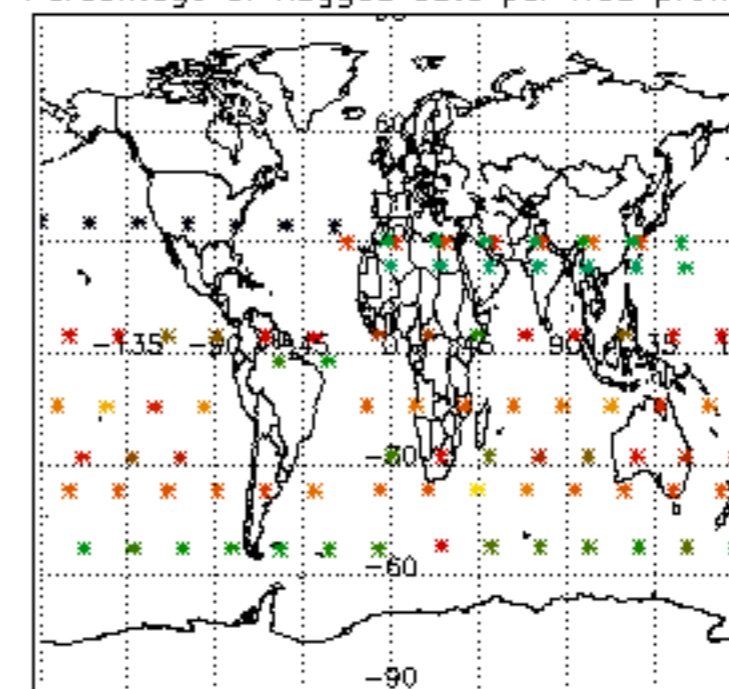
Percentage of flagged data per H2O profile

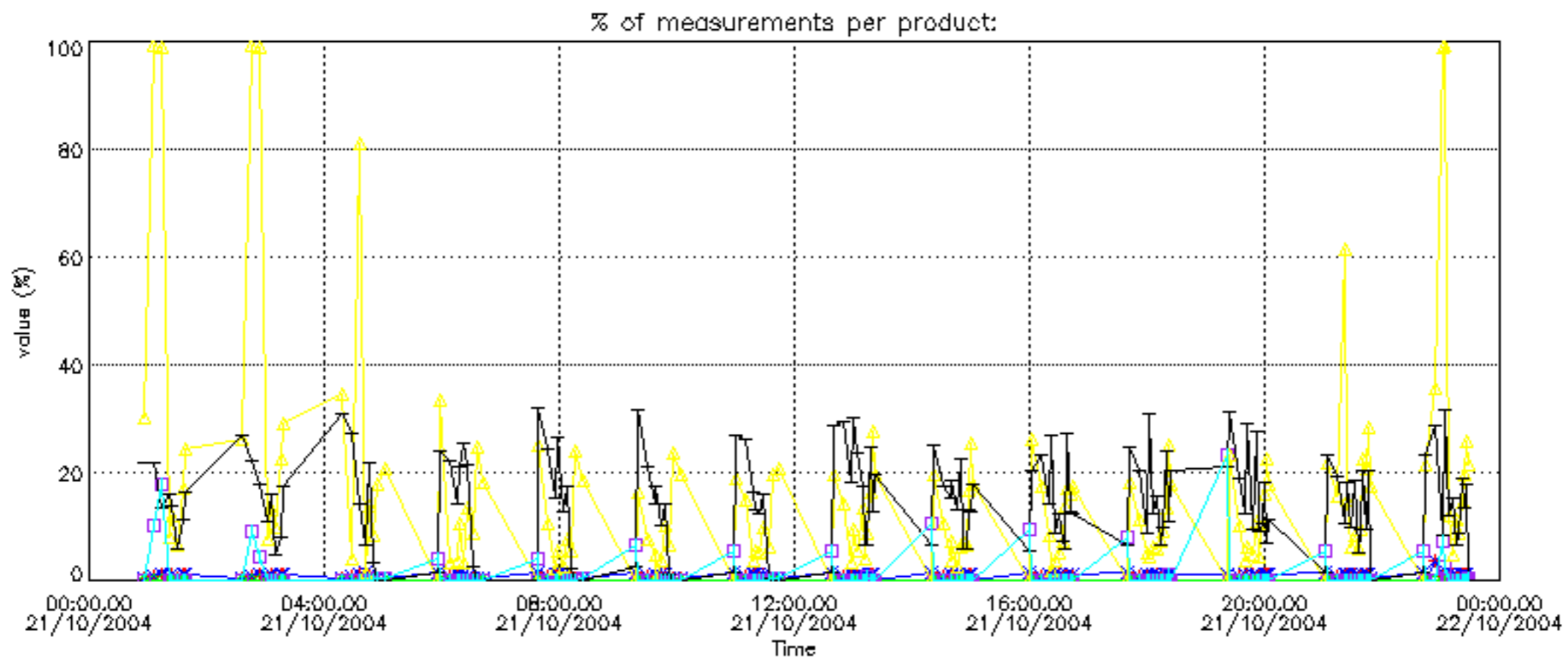


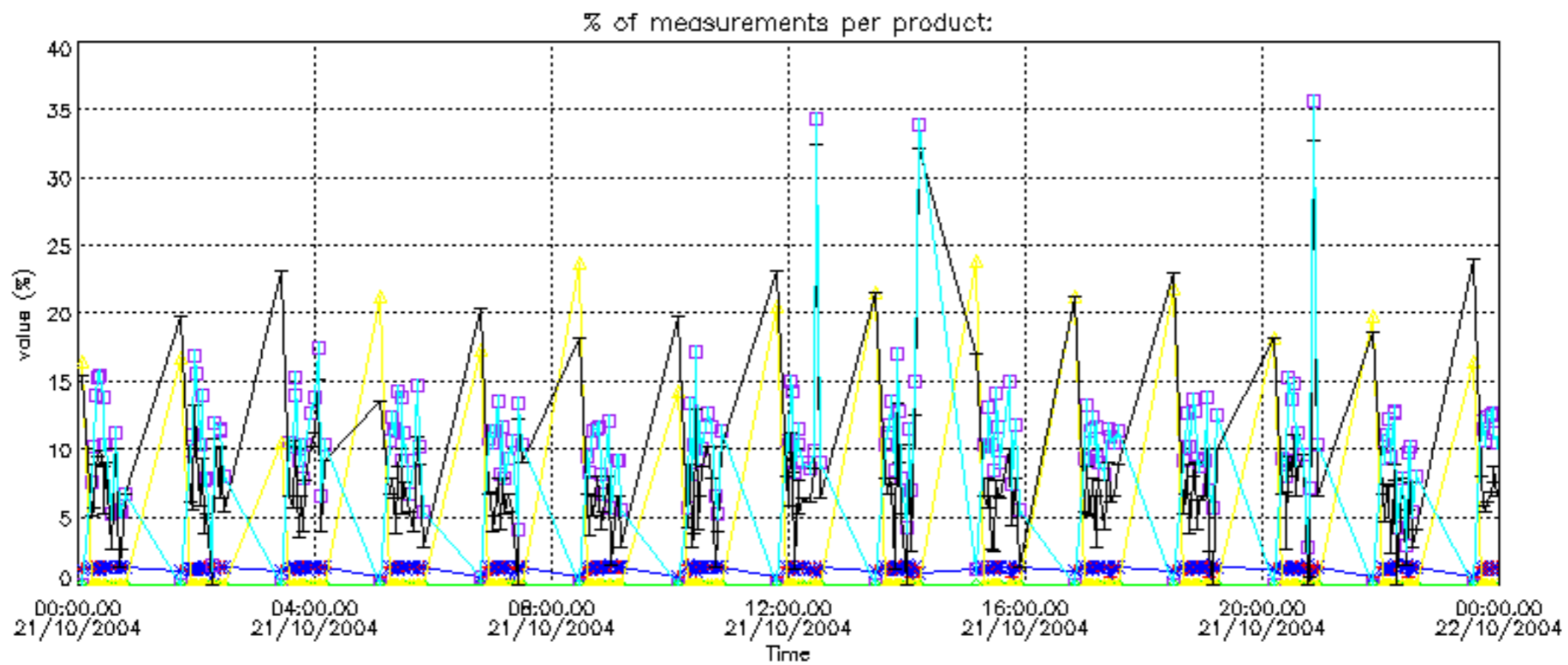
Percentage of flagged data per NO2 profile



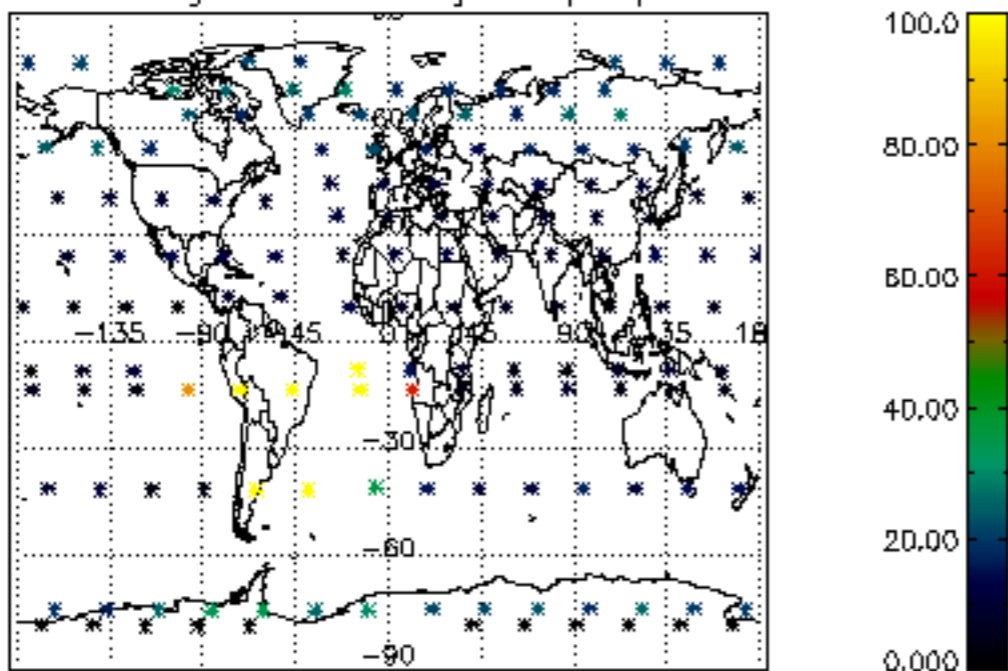
Percentage of flagged data per NO3 profile



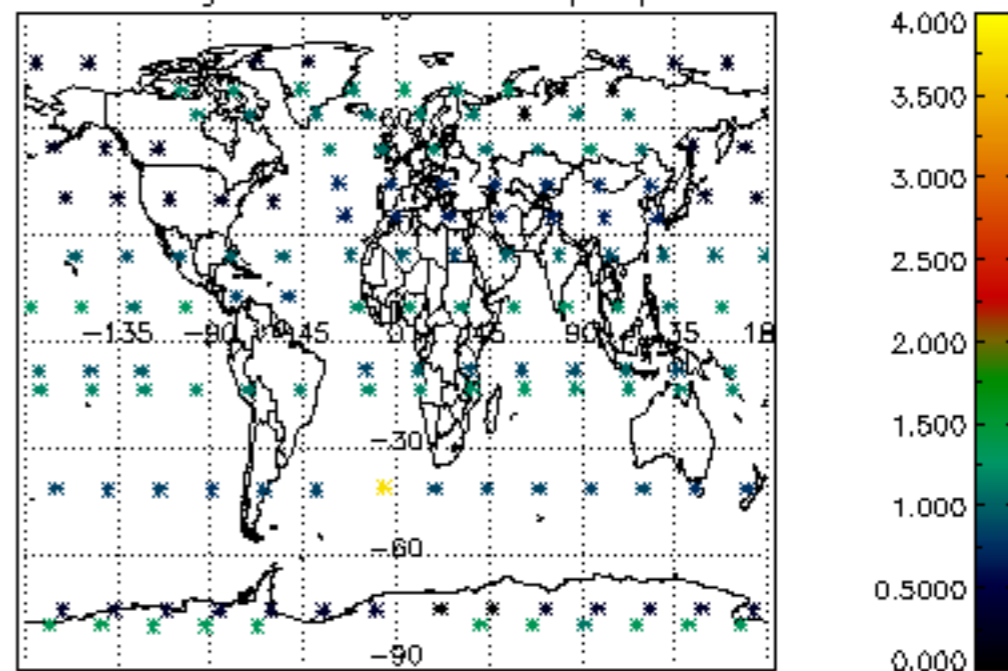




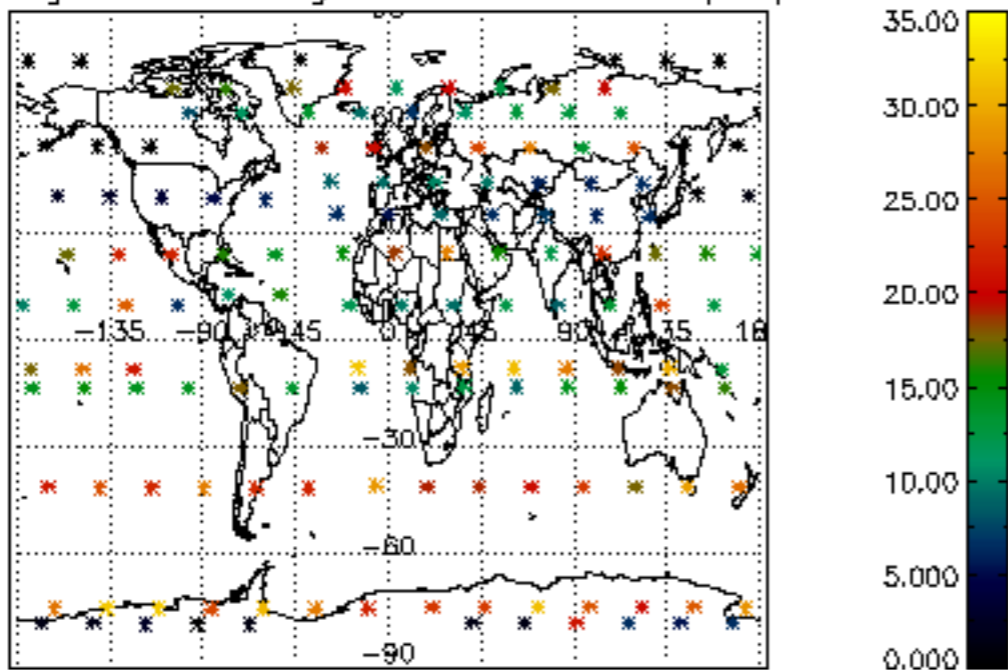
Percentage of cosmic ray hits per profile



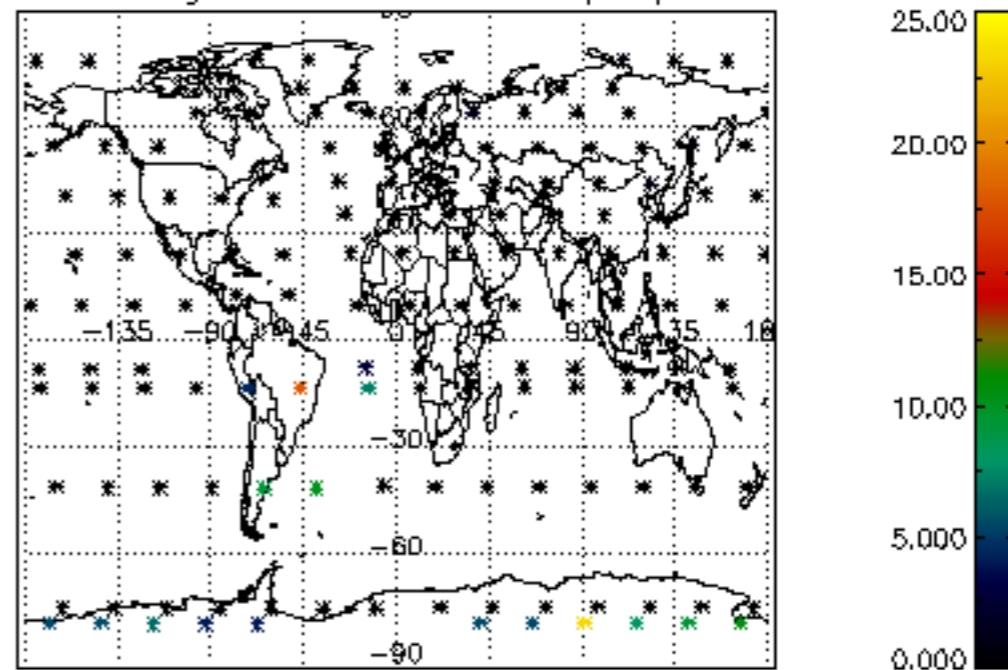
Percentage of datation errors per profile



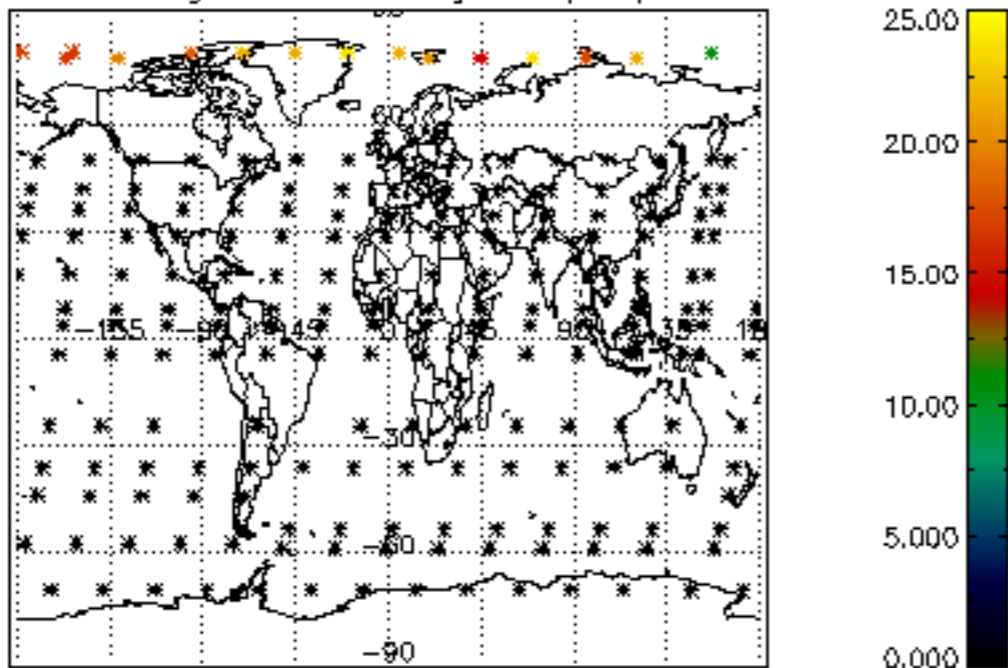
Percentage of star falling outside central band per profile



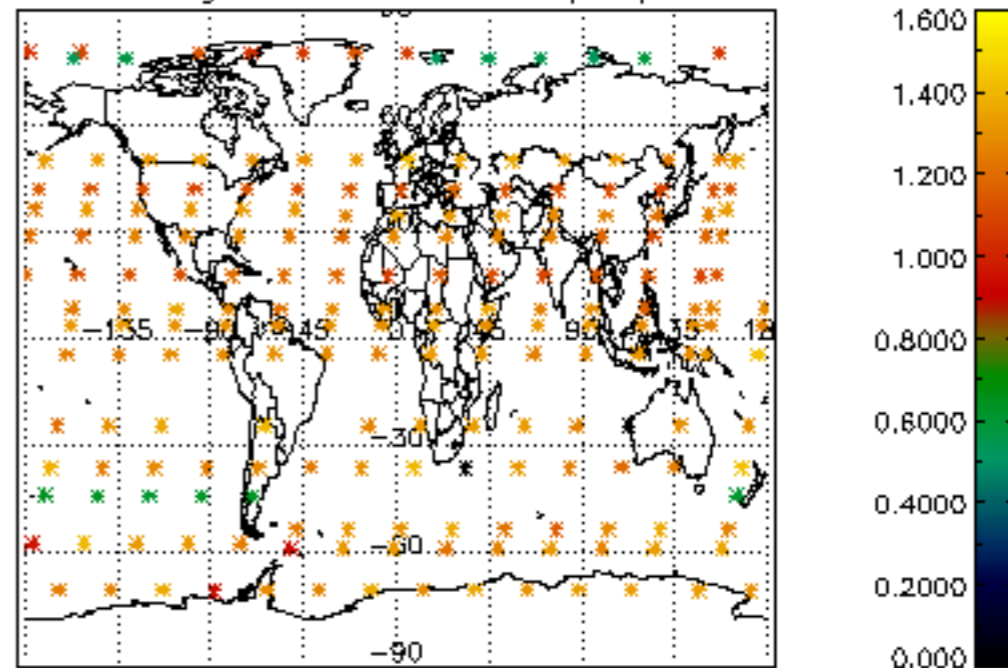
Percentage of saturation errors per profile



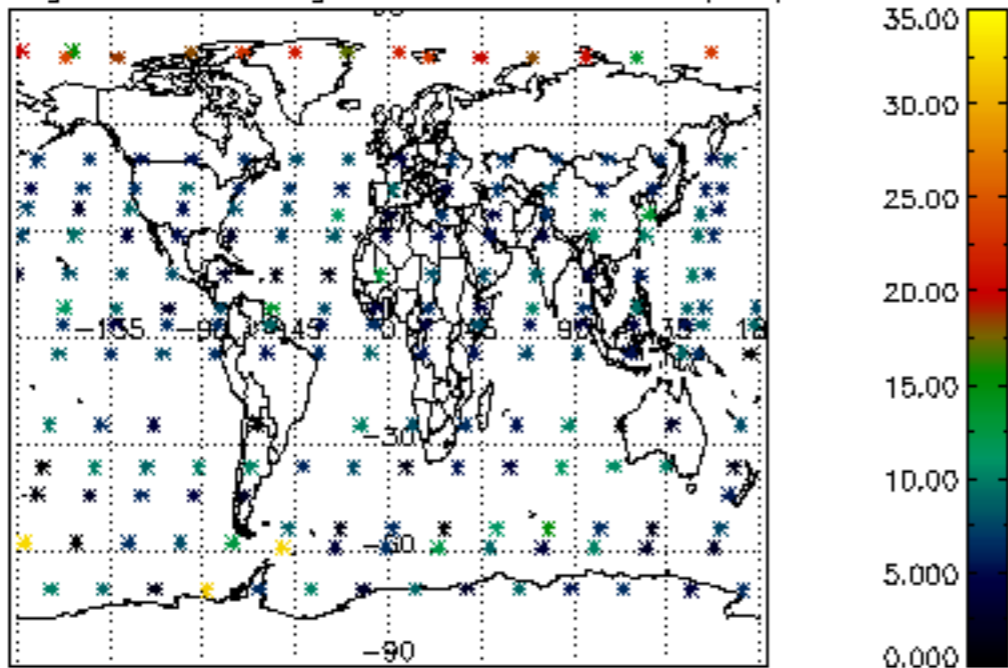
Percentage of cosmic ray hits per profile



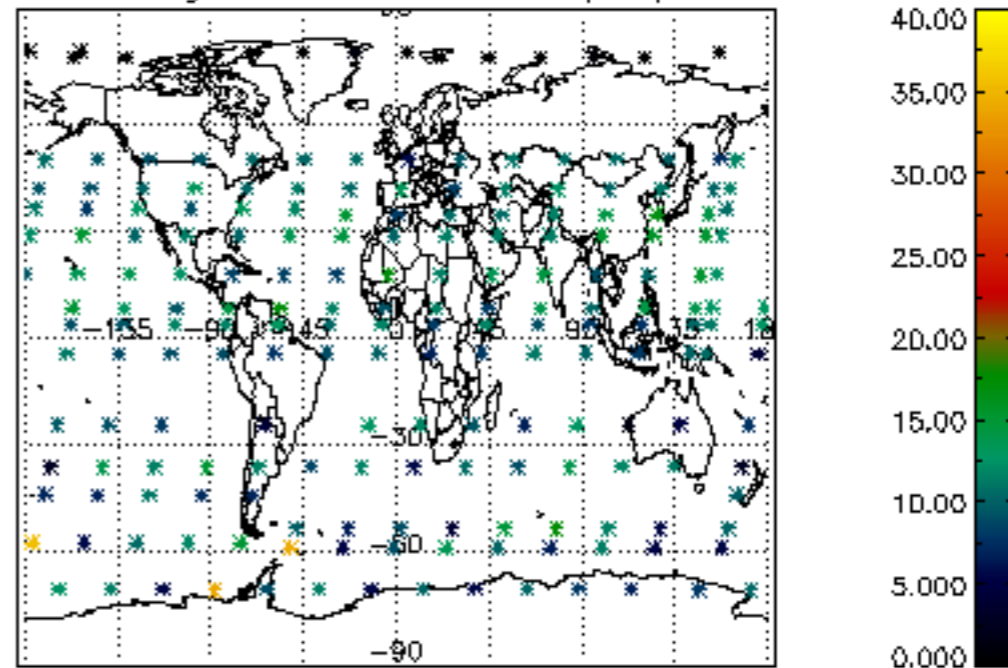
Percentage of datation errors per profile

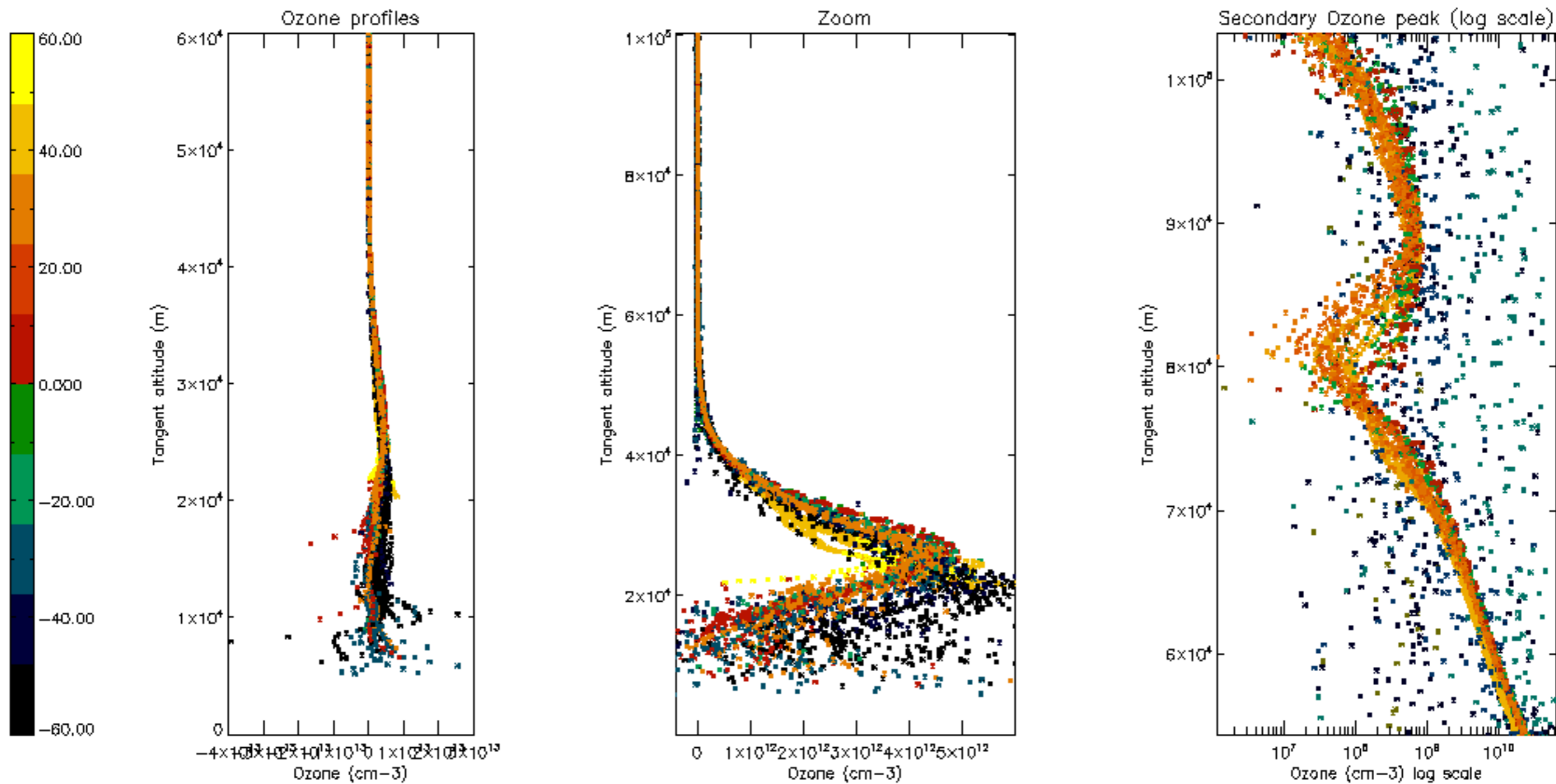


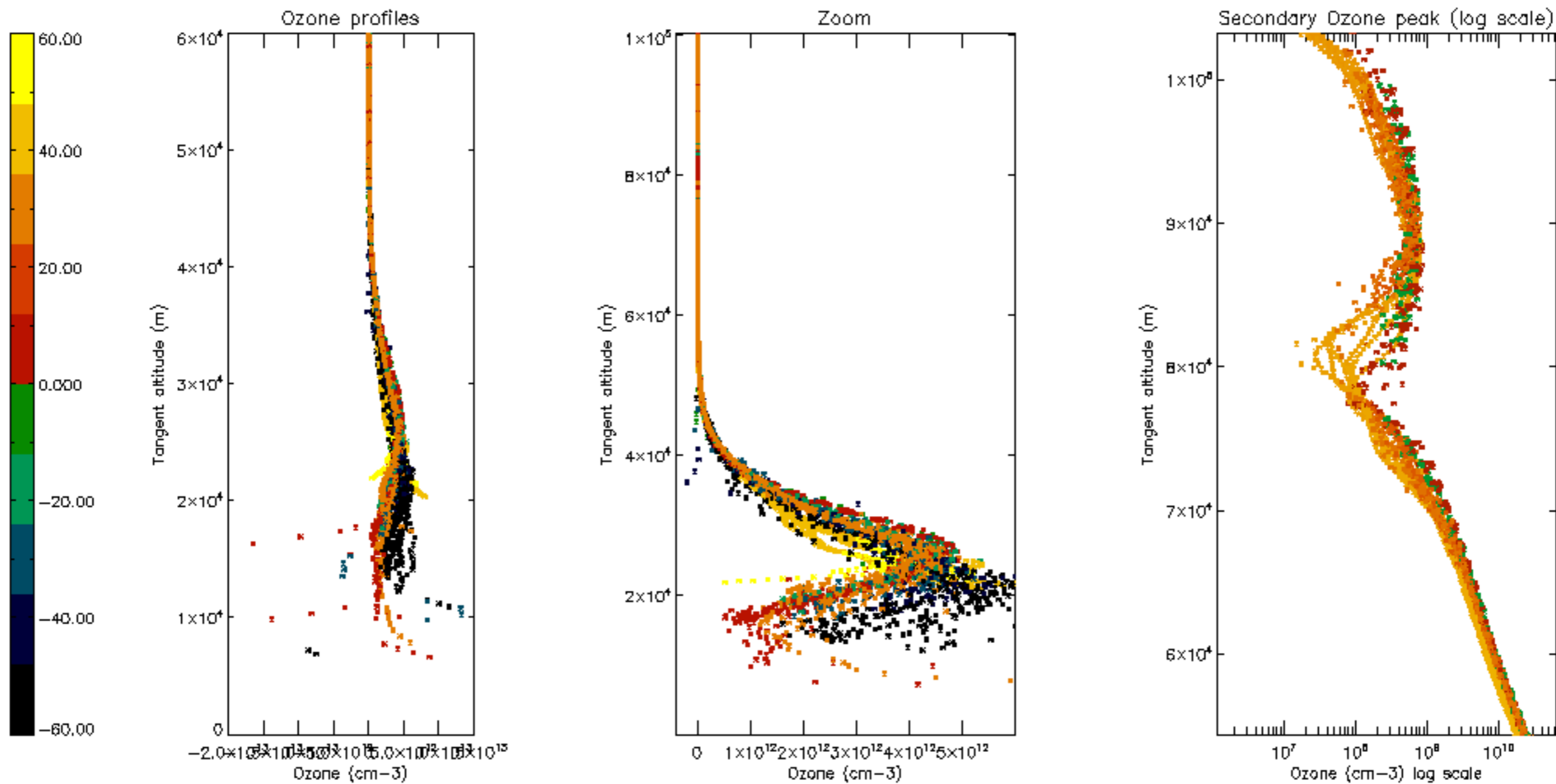
Percentage of star falling outside central band per profile

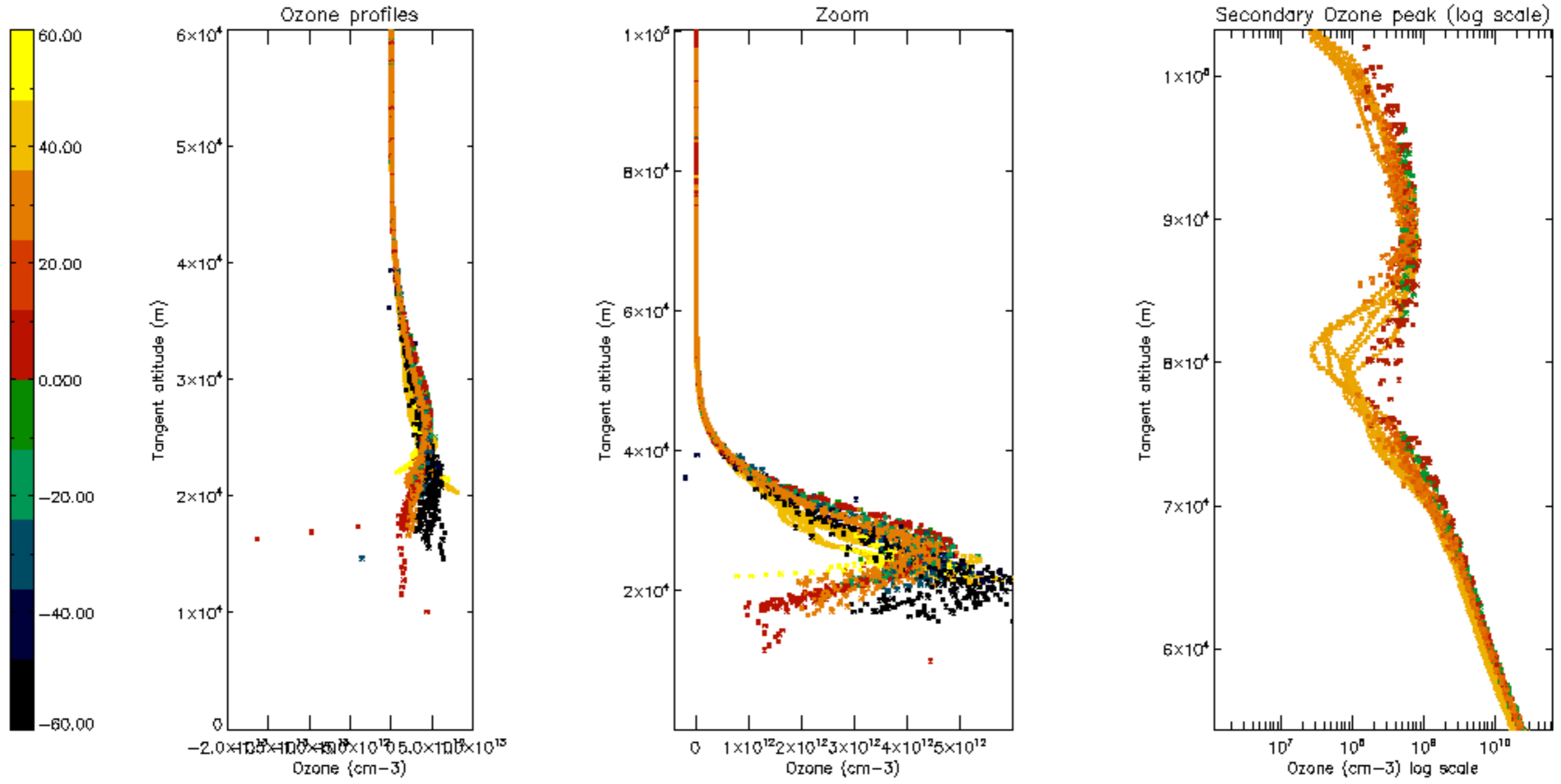


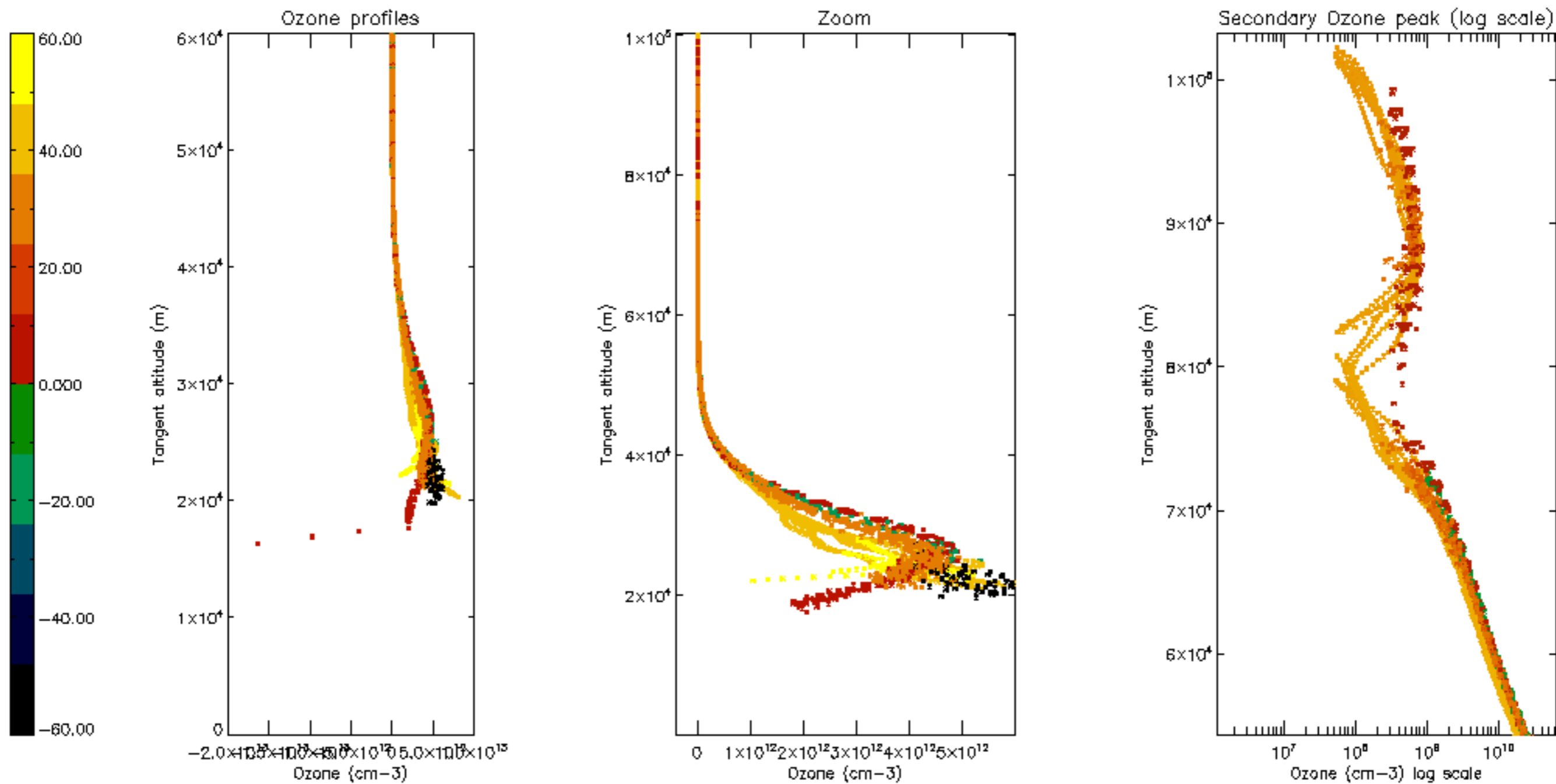
Percentage of saturation errors per profile

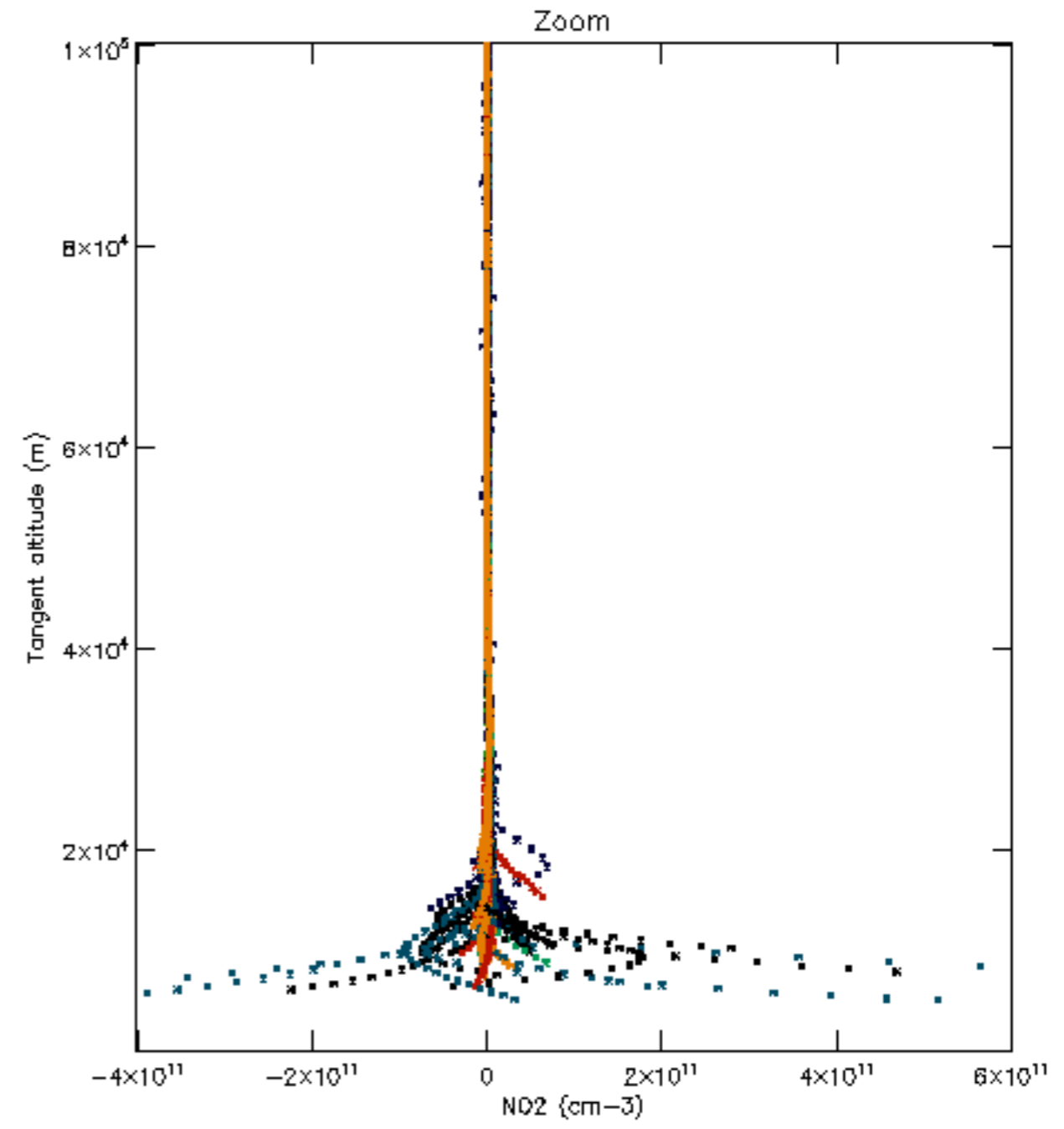
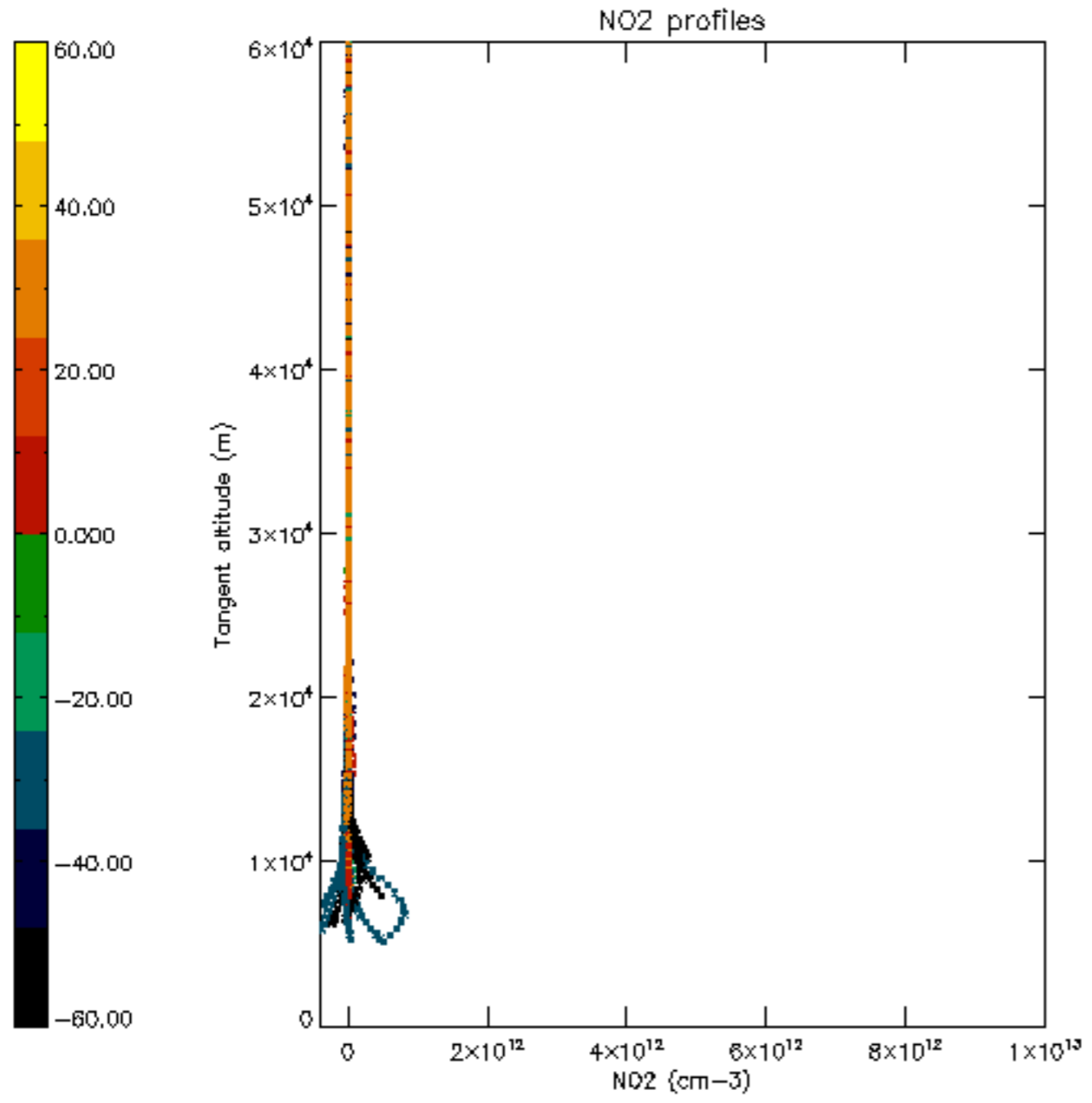


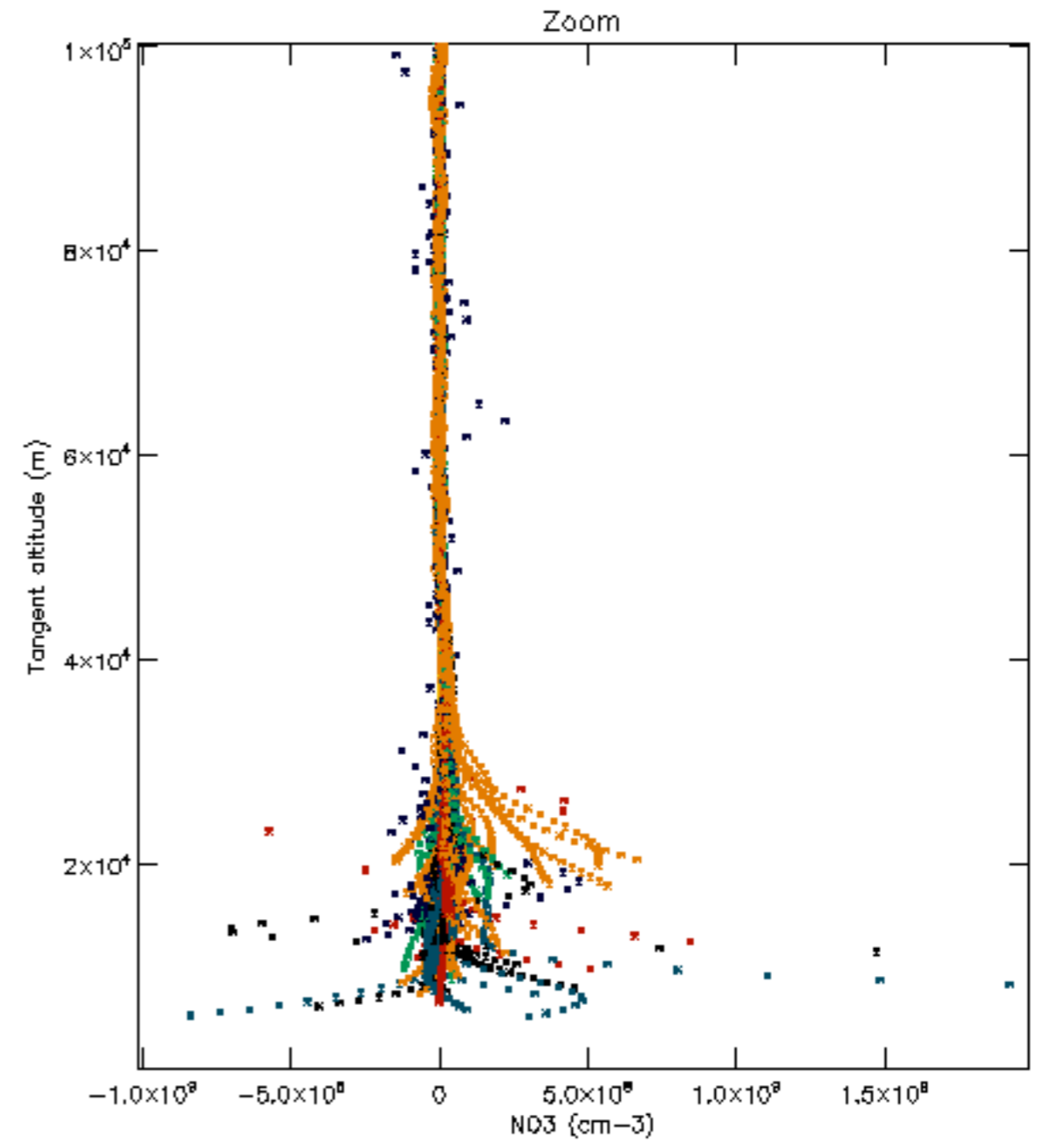
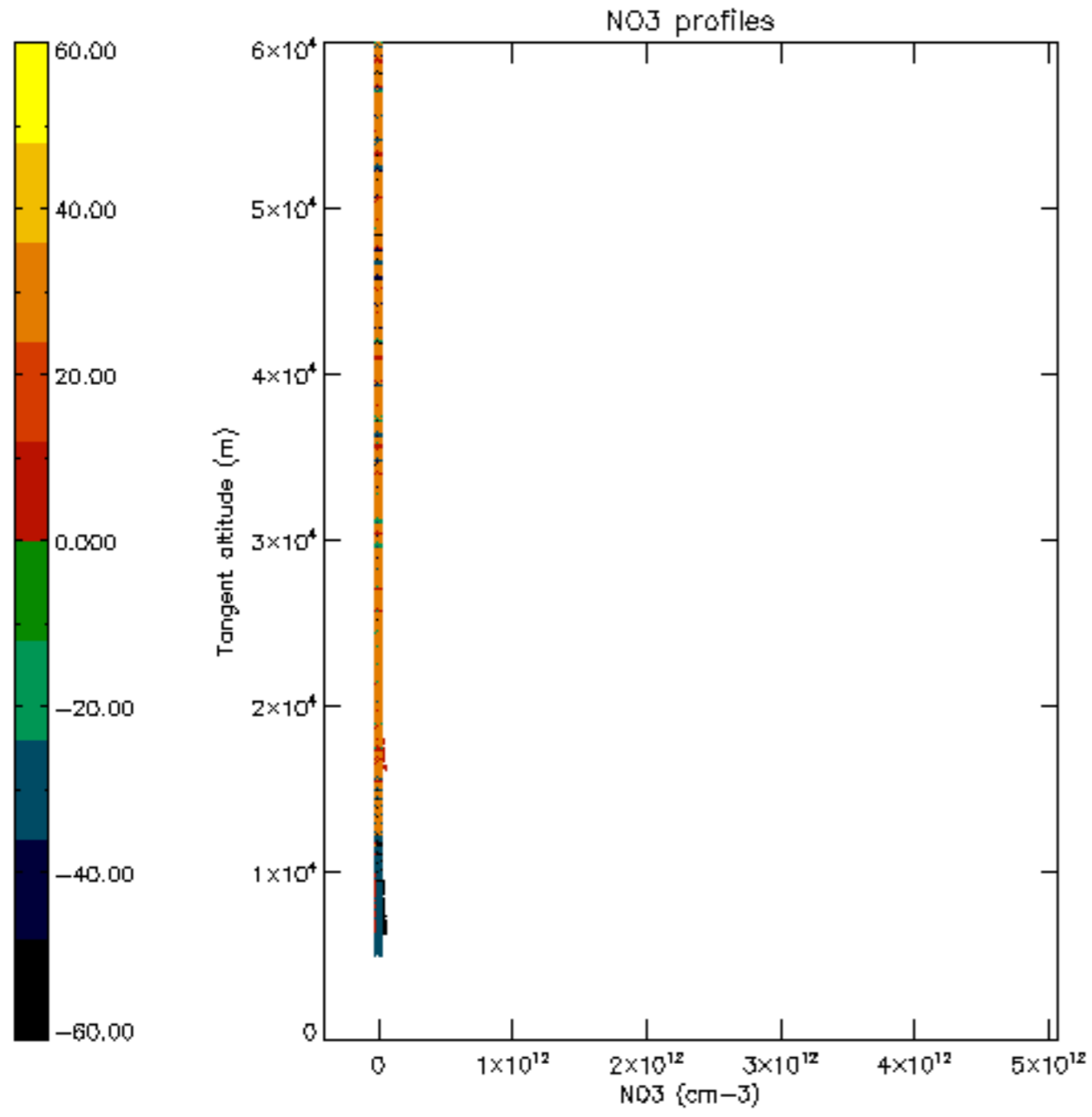


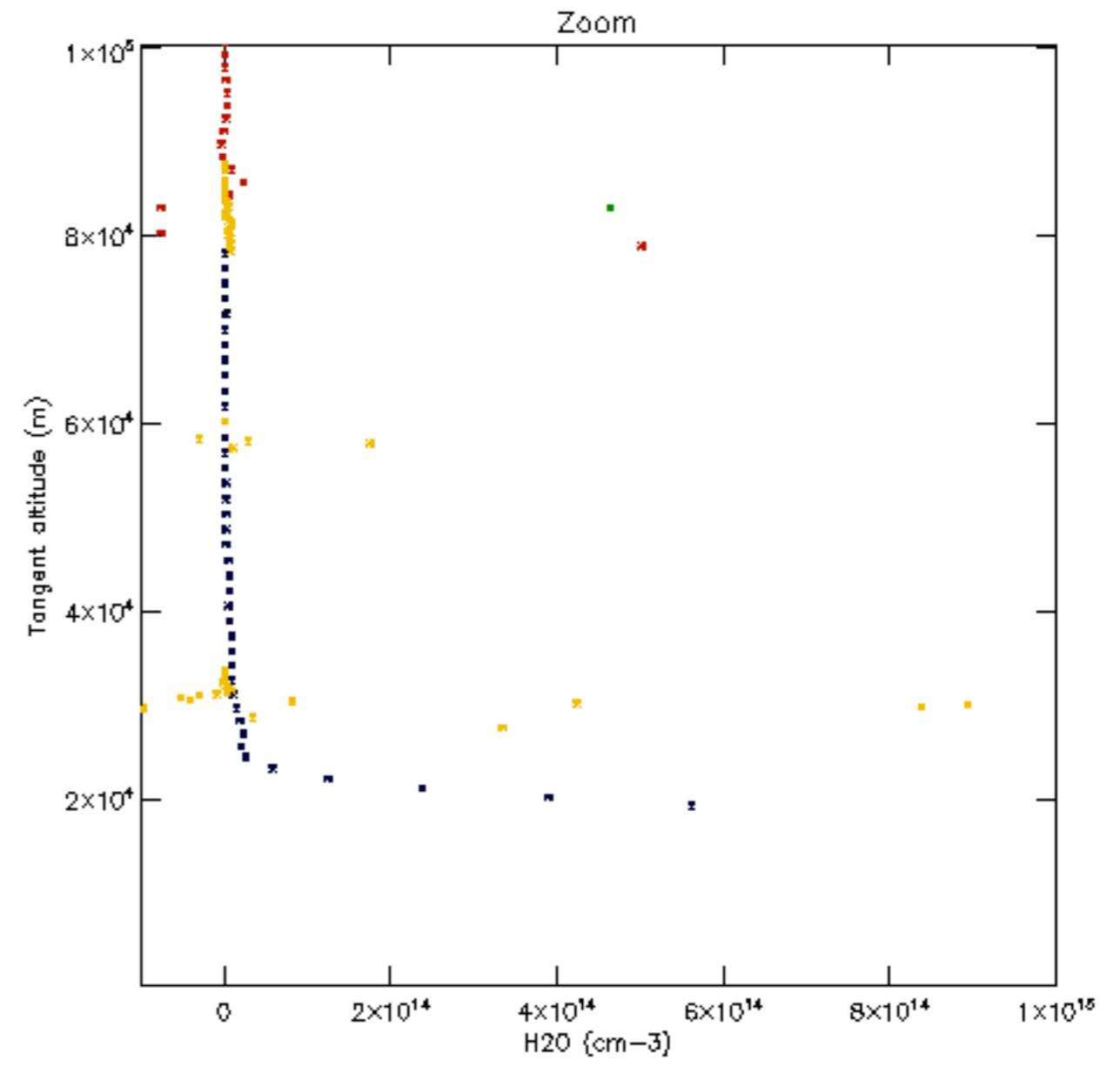
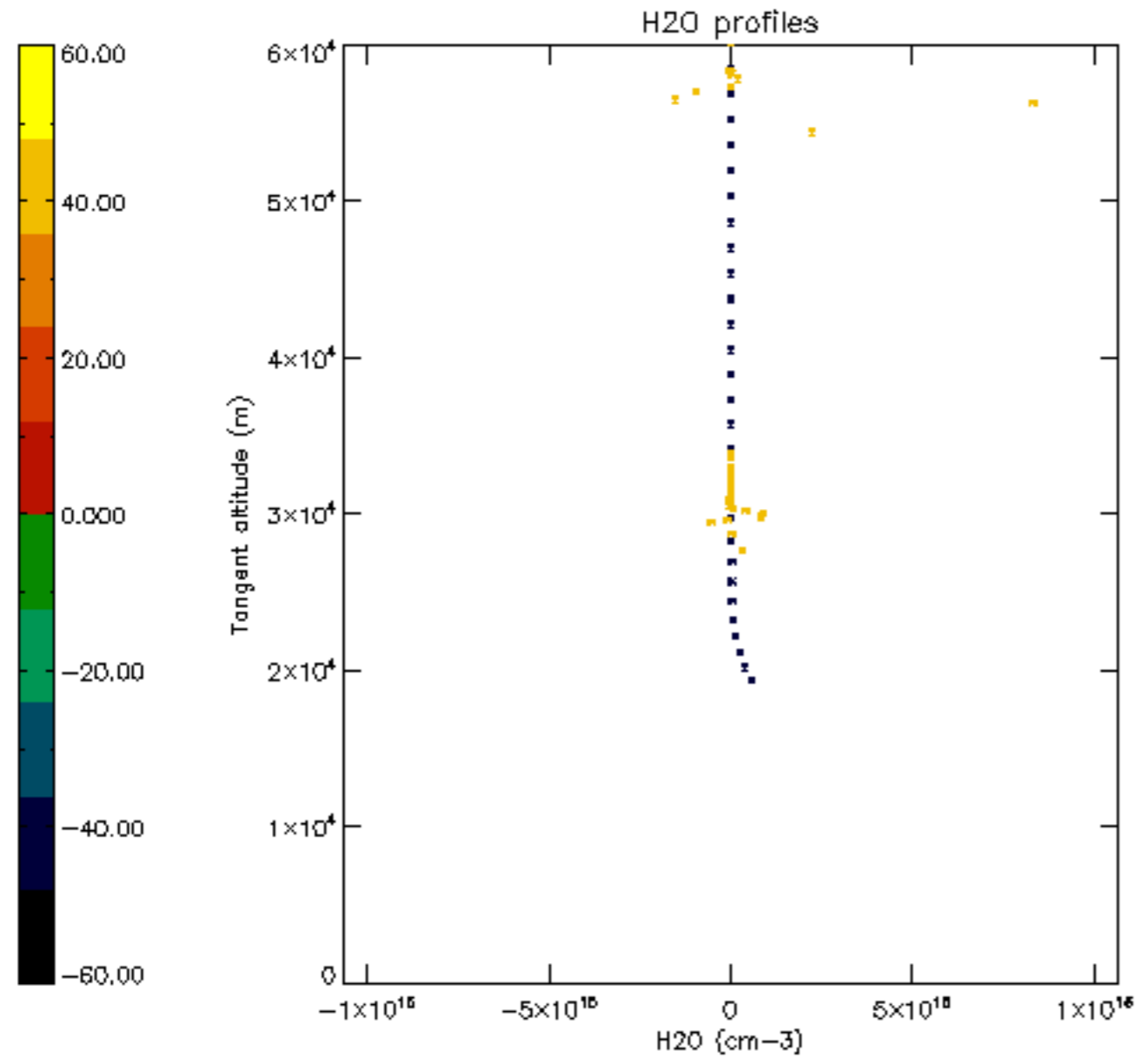


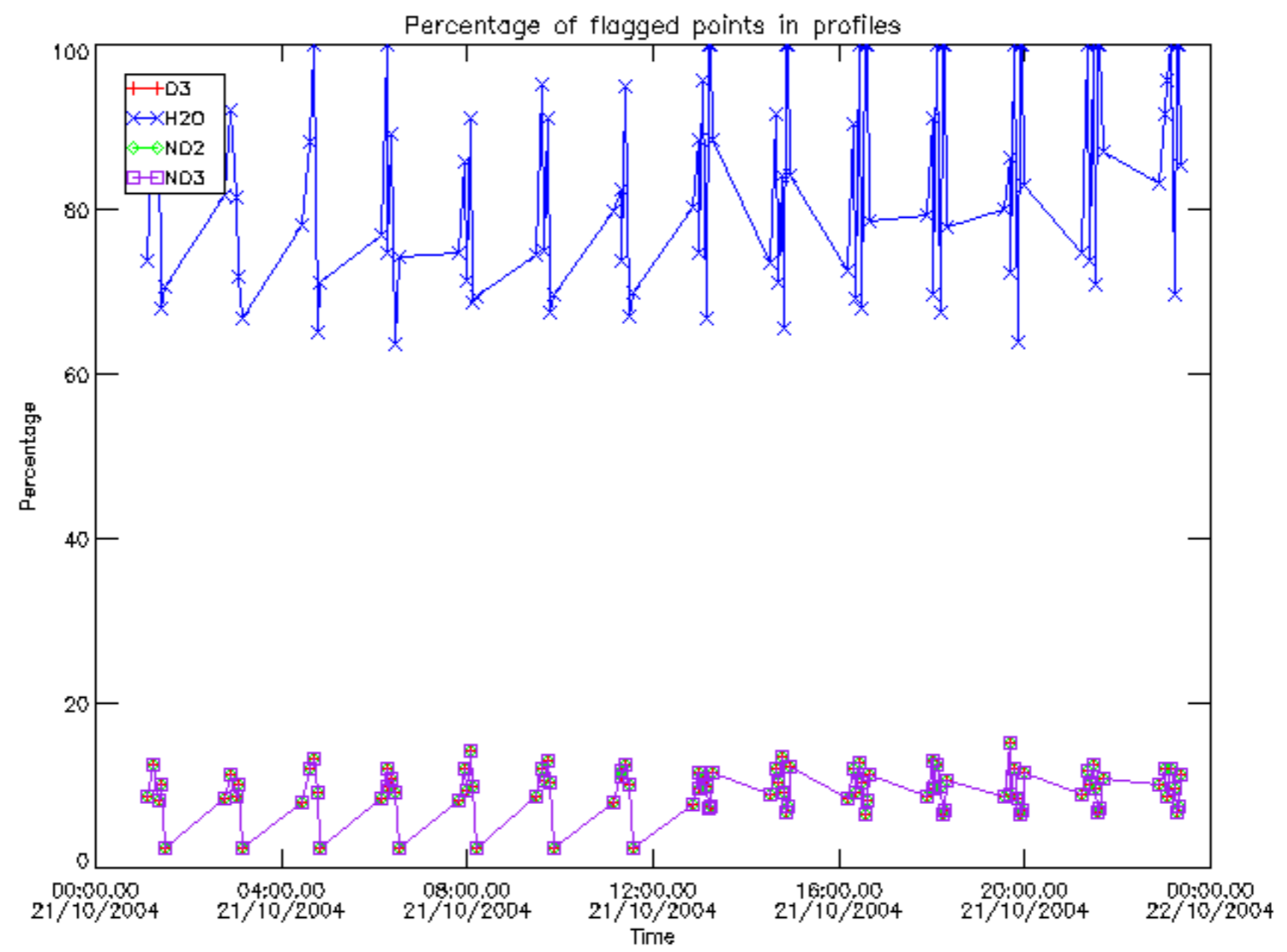




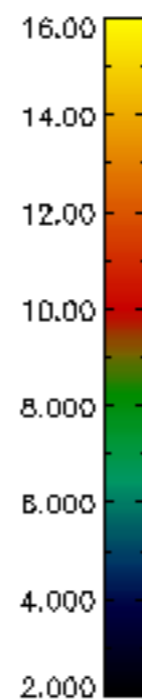
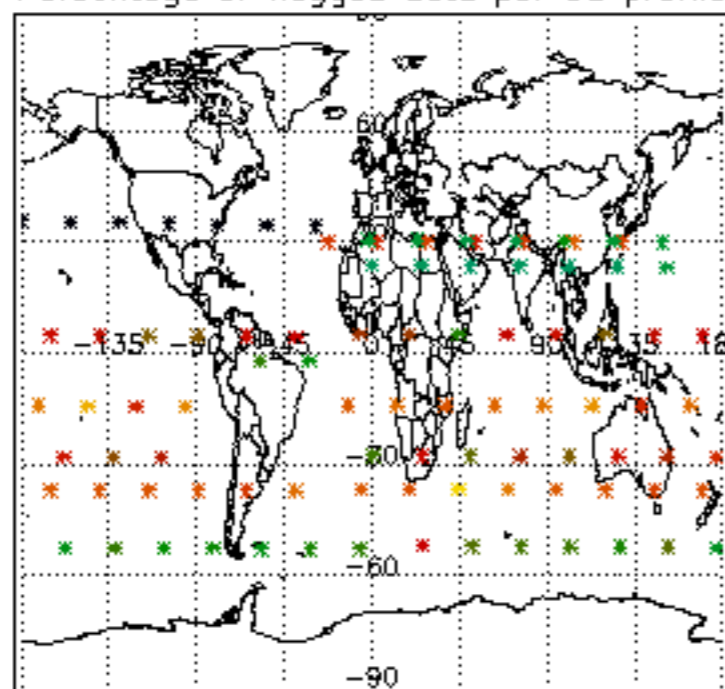




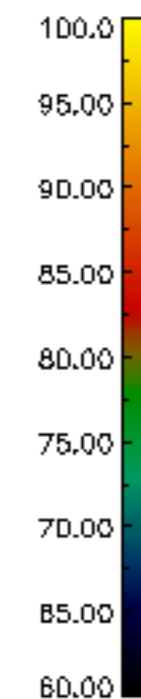
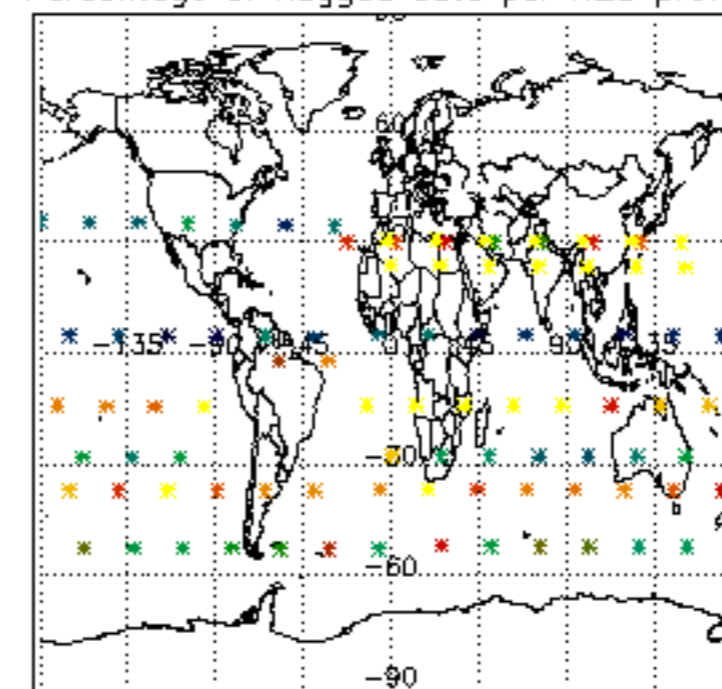




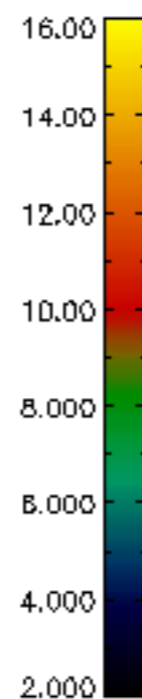
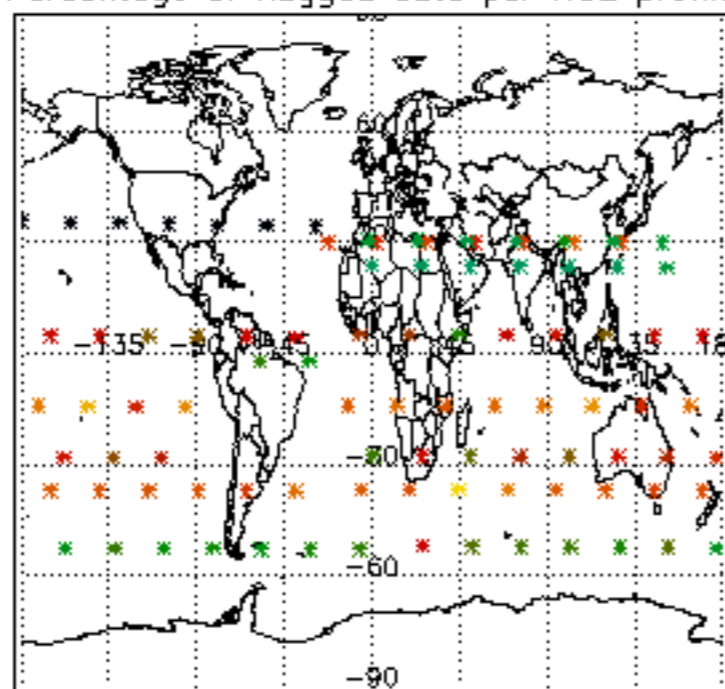
Percentage of flagged data per D3 profile



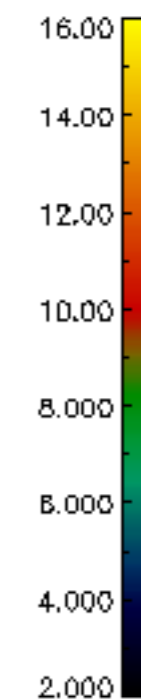
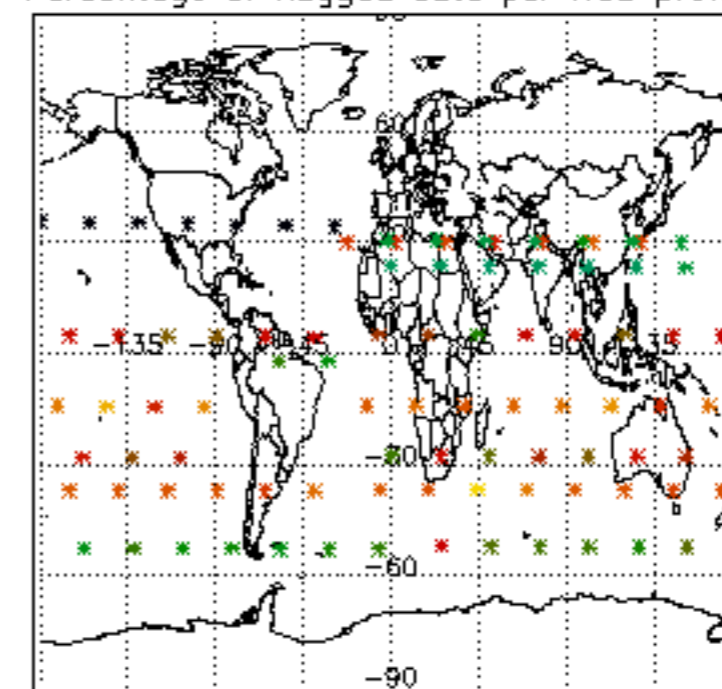
Percentage of flagged data per H2O profile

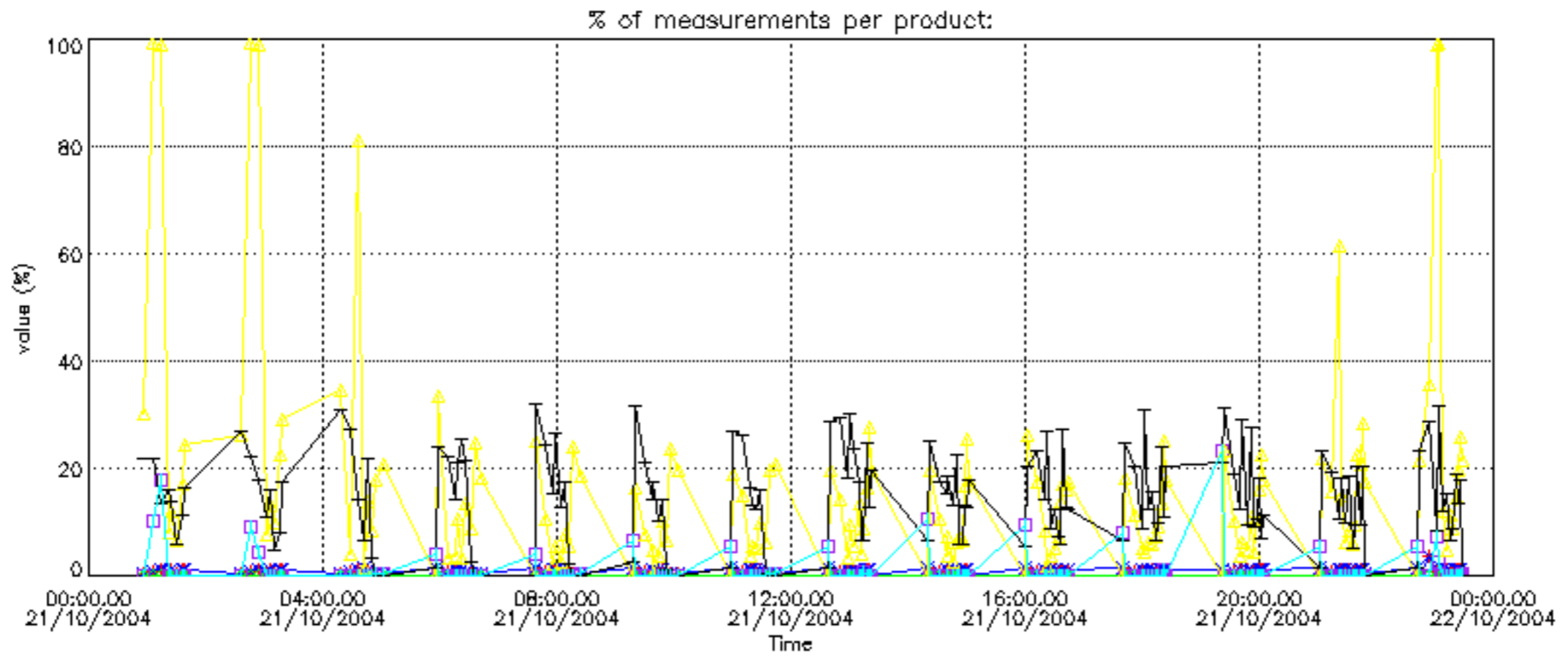


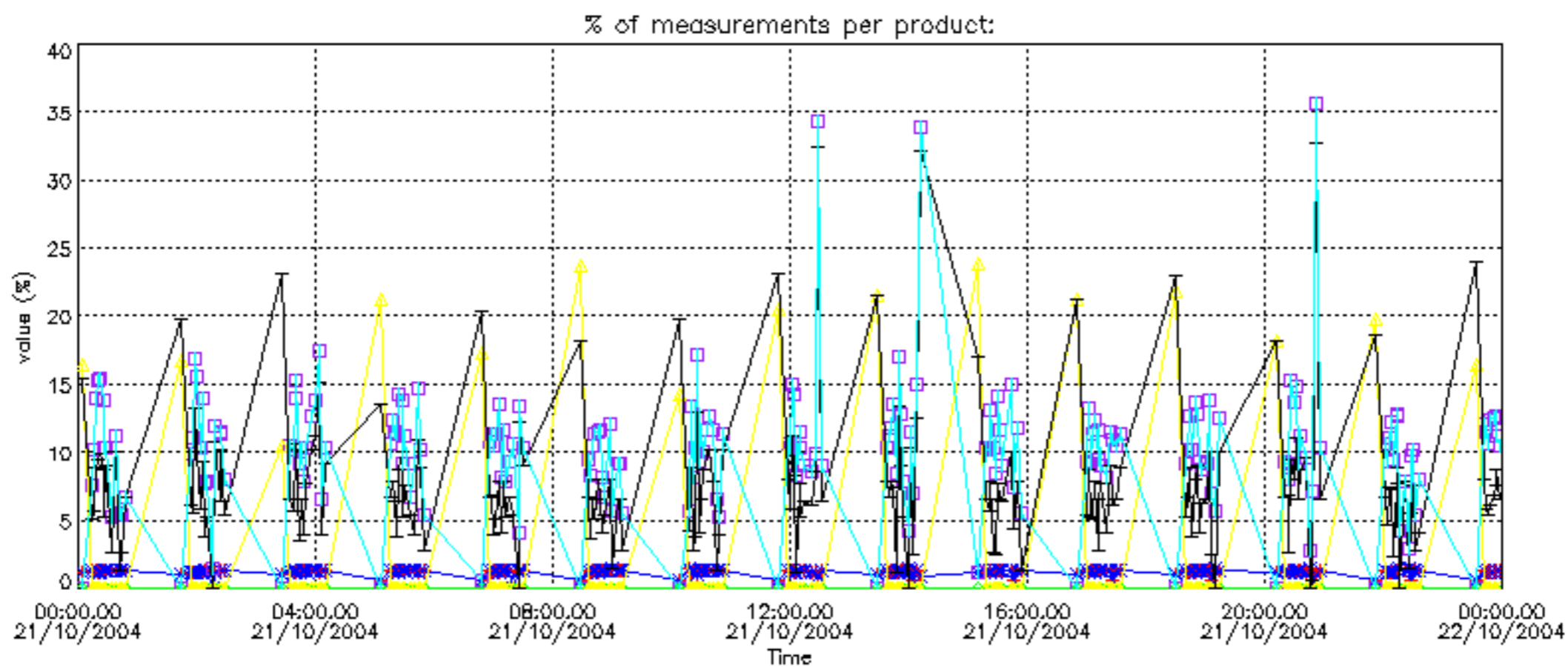
Percentage of flagged data per NO2 profile



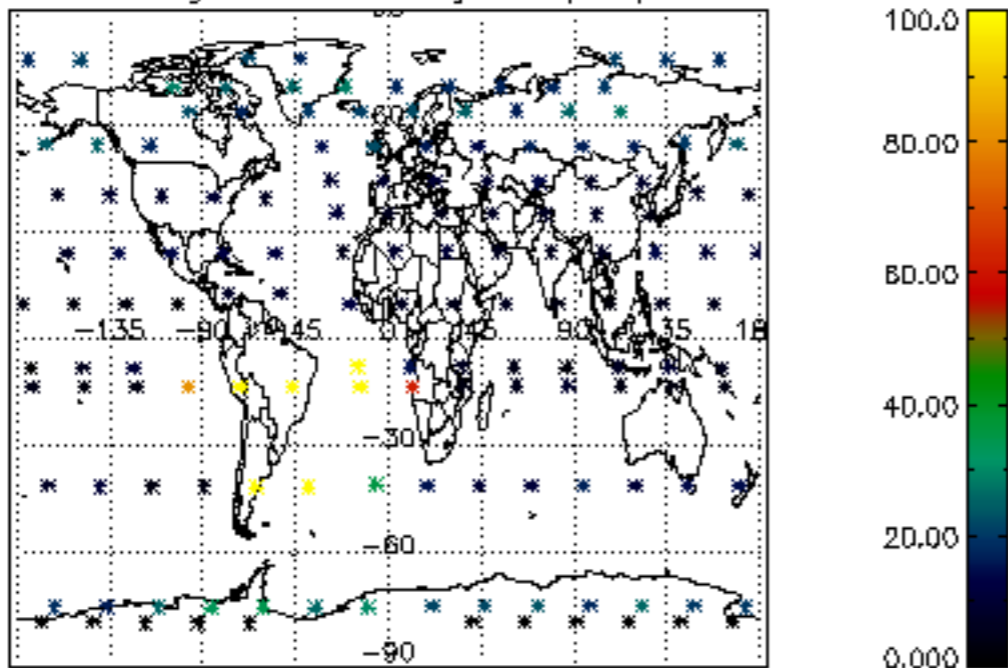
Percentage of flagged data per NO3 profile



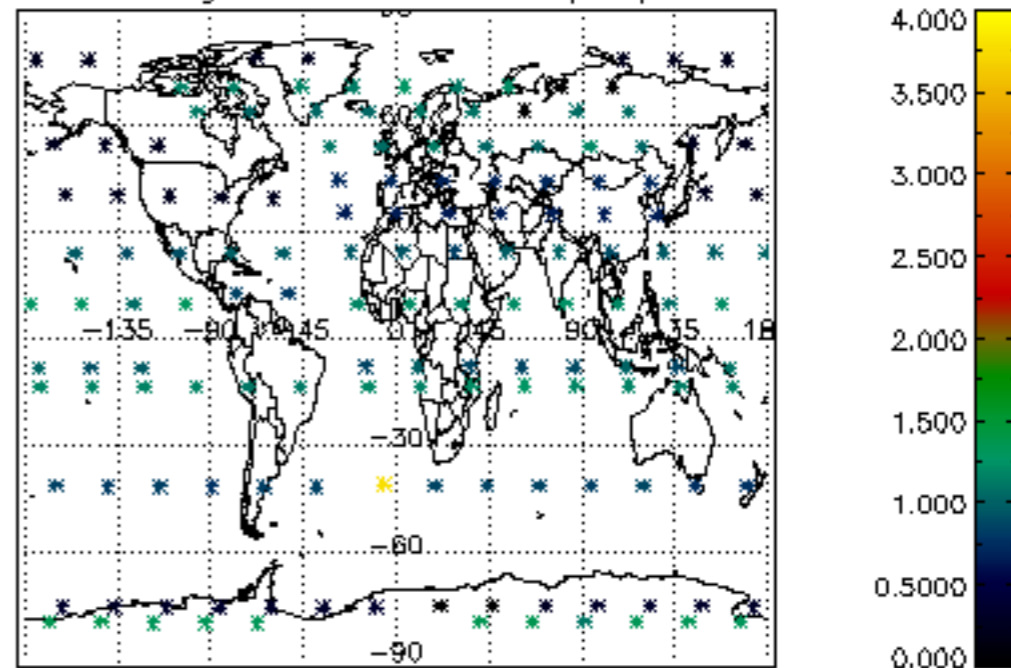




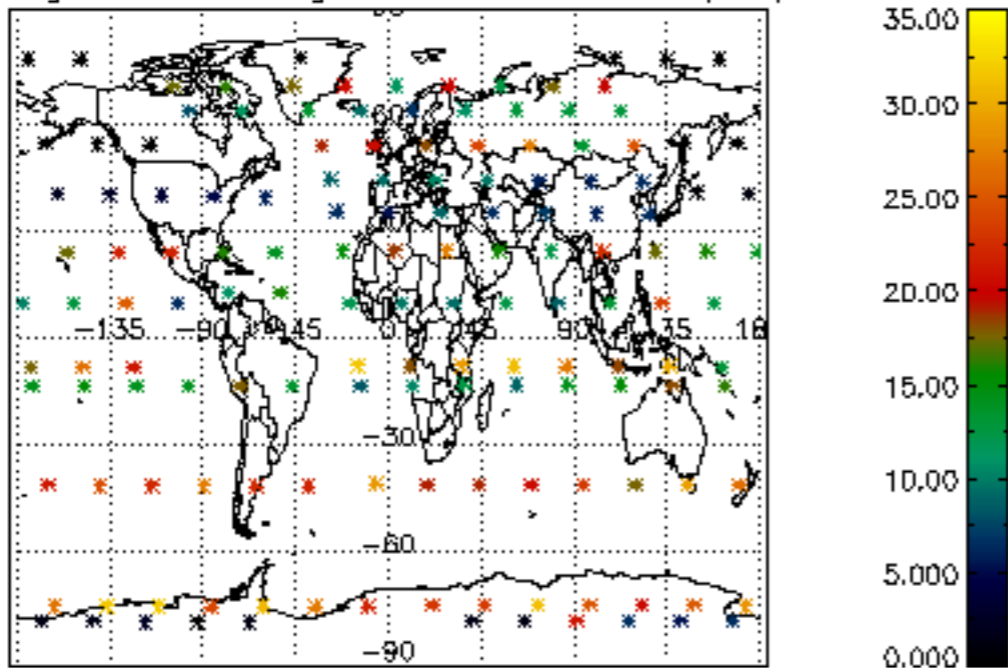
Percentage of cosmic ray hits per profile



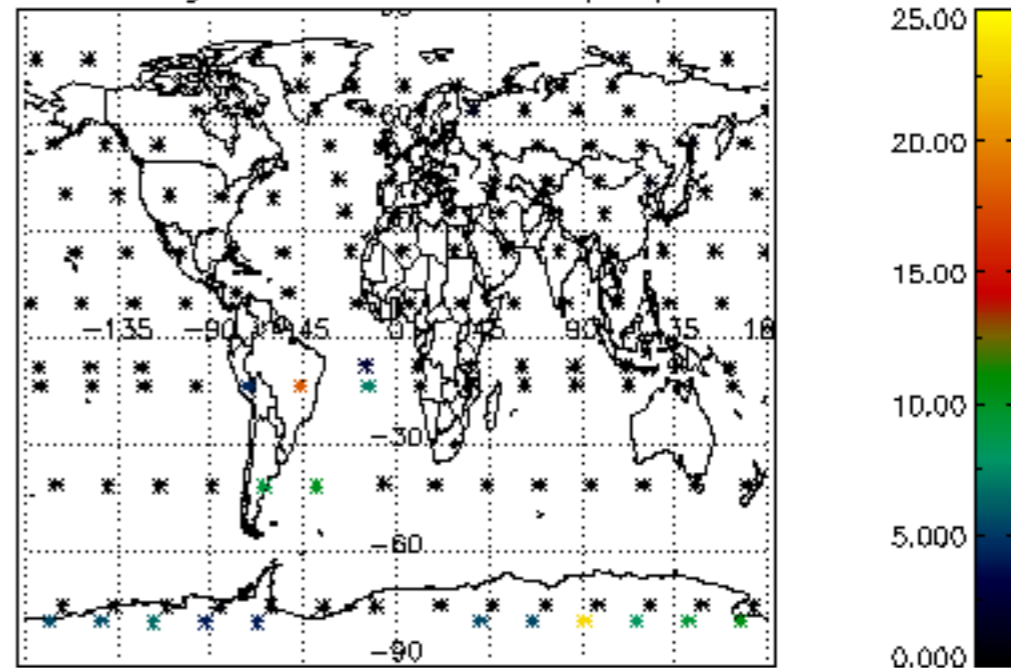
Percentage of datation errors per profile



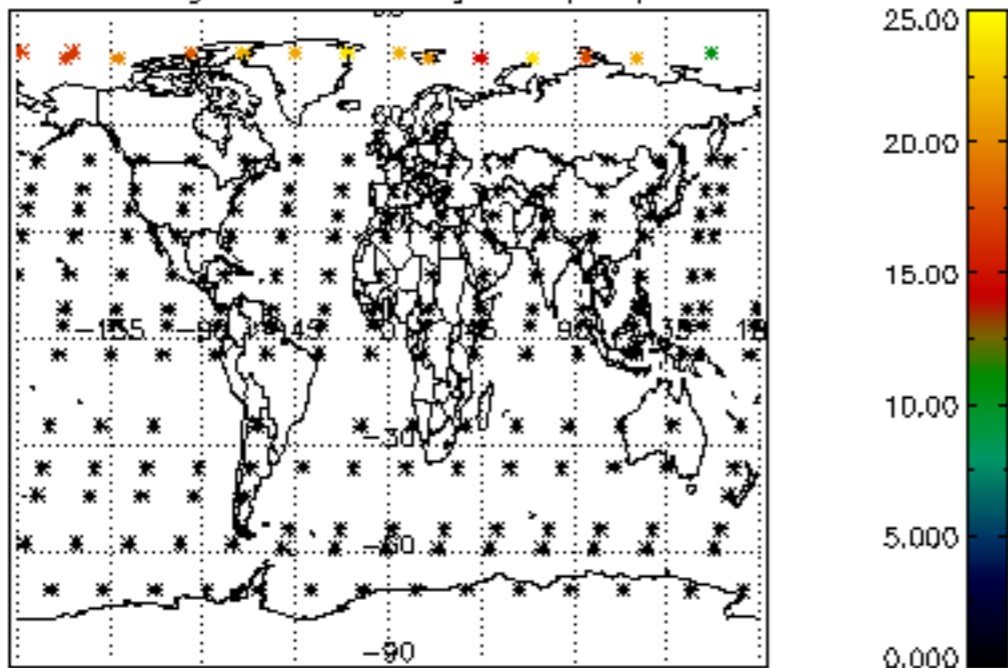
Percentage of star falling outside central band per profile



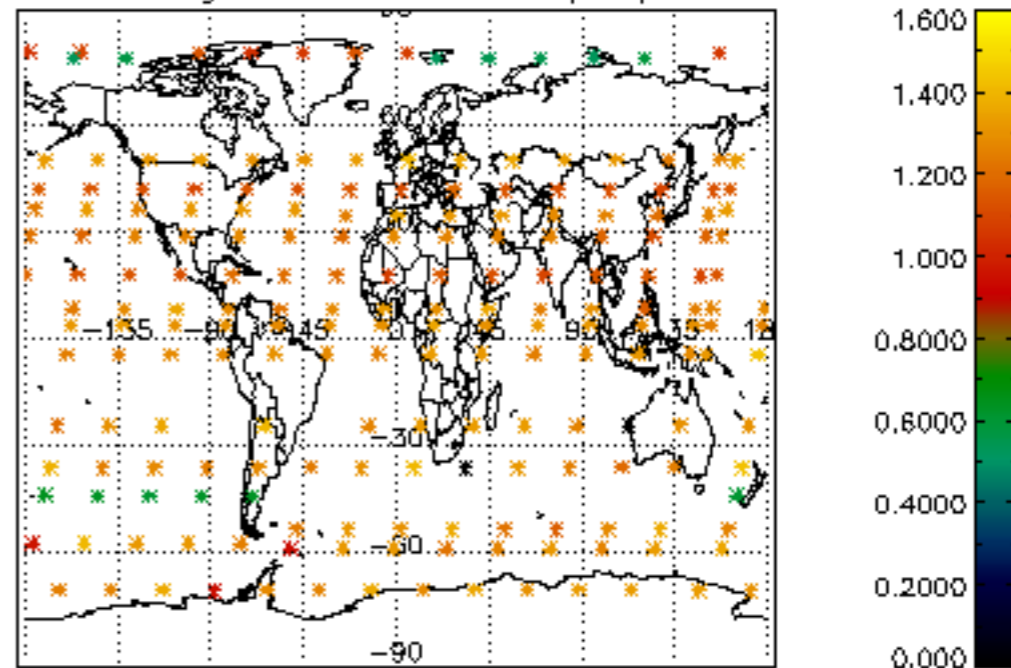
Percentage of saturation errors per profile



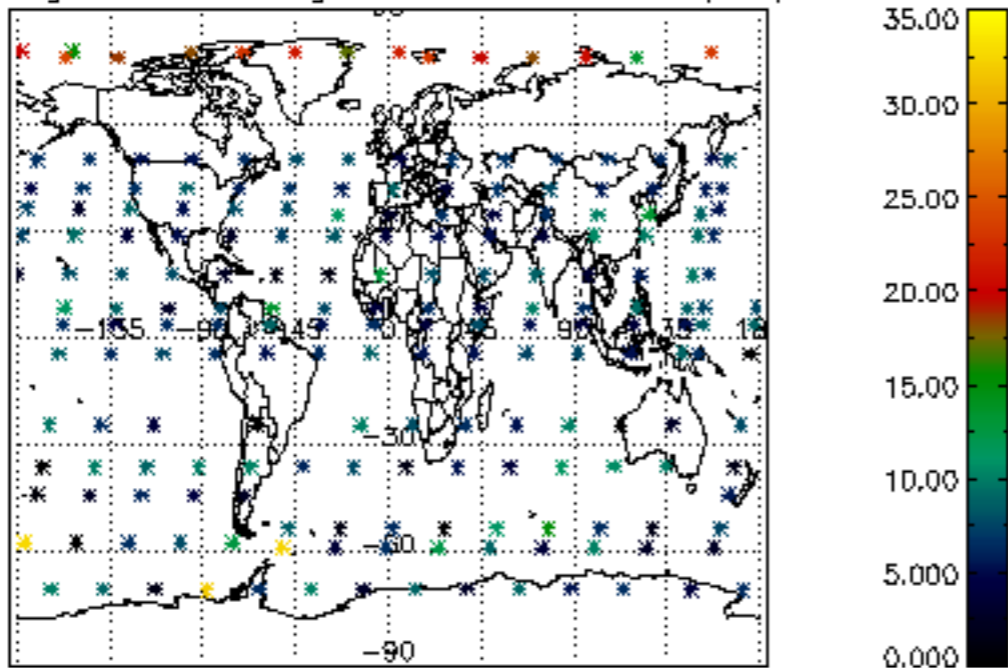
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

