

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	24APR2013 17:13:45
Data source version	GOMOS/6.01
Start time of products	21-08-2011 (21AUG2011 00:00:00)
Stop time of products	22-08-2011 (22AUG2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	314
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

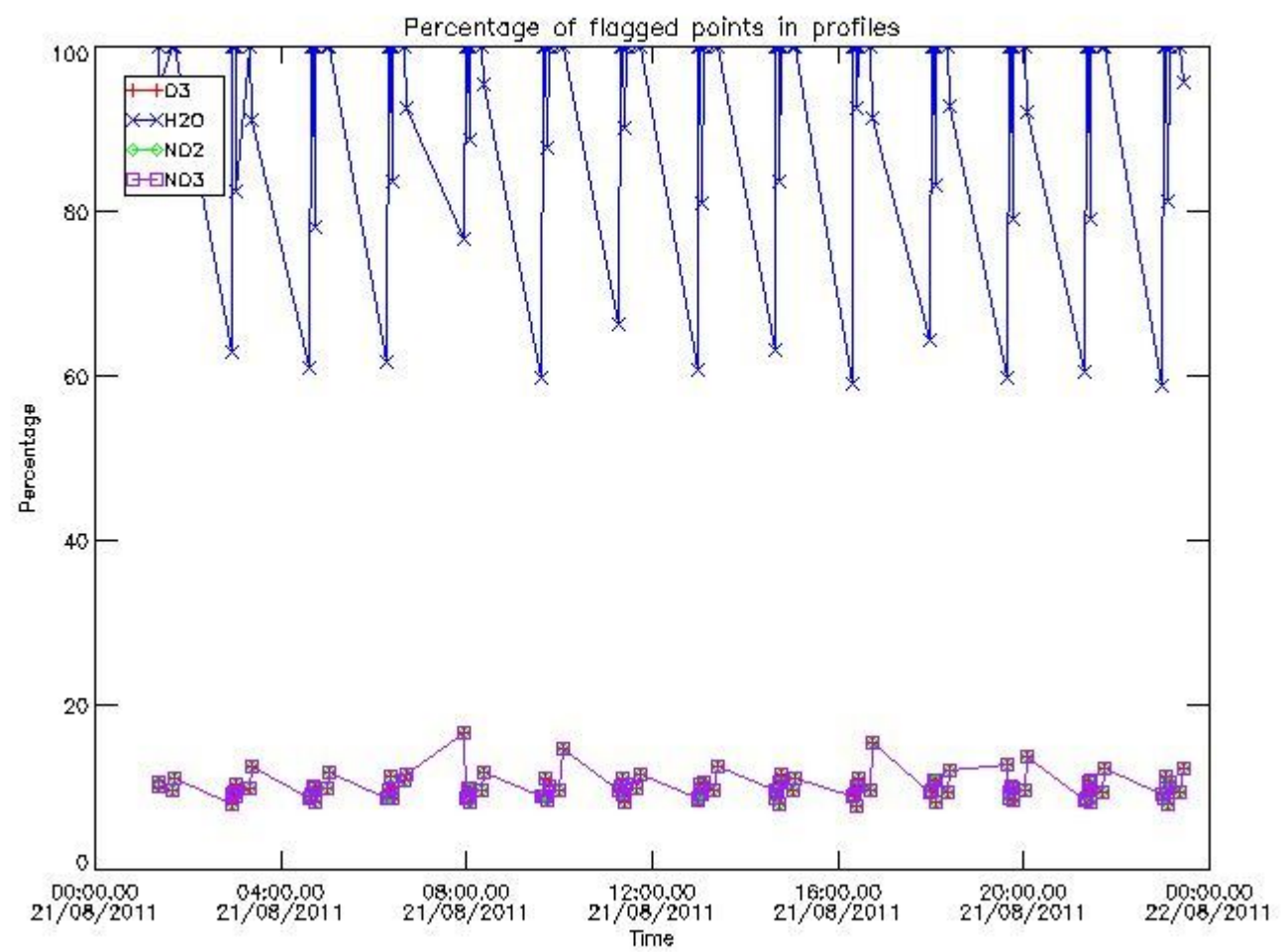
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110821_012101_000000493105_00390_49542_5244.N1	21-AUG-2011 01:21:01	Dark	48.500	125	44Iot Ori	2.7700	30000.	97	49542	No
2	GOM_NL__2PRFIN20110821_012250_000000603105_00390_49542_5245.N1	21-AUG-2011 01:22:50	Dark	60.000	7	19Bet Ori	0.10000	14000.	120	49542	No
3	GOM_NL__2PRFIN20110821_013856_000000543105_00391_49543_5320.N1	21-AUG-2011 01:38:56	Dark	53.500	157	The1Eri	2.9060	9300.0	107	49543	No
4	GOM_NL__2PRFIN20110821_014218_000000463105_00391_49543_5321.N1	21-AUG-2011 01:42:18	Dark	45.500	9	Alp Eri	0.45300	24000.	91	49543	No
5	GOM_NL__2PRFIN20110821_014810_000000583105_00391_49543_5322.N1	21-AUG-2011 01:48:10	Straylight	57.500	84	Alp Phe	2.3970	4500.0	115	49543	No
6	GOM_NL__2PRFIN20110821_015024_000000573105_00391_49543_5323.N1	21-AUG-2011 01:50:24	Straylight	56.500	63	Bet Gru	2.1500	2800.0	113	49543	No
7	GOM_NL__2PRFIN20110821_015507_000000543105_00391_49543_5324.N1	21-AUG-2011 01:55:07	Twilight_stray	53.500	18	24Alp PsA	1.1660	9700.0	107	49543	No
8	GOM_NL__2PRFIN20110821_020023_000000423105_00391_49543_5325.N1	21-AUG-2011 02:00:23	Bright	41.500	142	49Del Cap	2.8500	8900.0	83	49543	No
9	GOM_NL__2PRFIN20110821_020340_000000413105_00391_49543_5326.N1	21-AUG-2011 02:03:40	Bright	40.500	154	22Bet Aqr	2.8990	5700.0	81	49543	No
10	GOM_NL__2PRFIN20110821_020526_000000453105_00391_49543_5327.N1	21-AUG-2011 02:05:26	Bright	45.000	162	34Alp Aqr	2.9440	5350.0	90	49543	No
11	GOM_NL__2PRFIN20110821_020832_000000413105_00391_49543_5328.N1	21-AUG-2011 02:08:32	Bright	41.000	61	8Eps Peg	2.1000	3900.0	82	49543	No
12	GOM_NL__2PRFIN20110821_021508_000000393105_00391_49543_5329.N1	21-AUG-2011 02:15:08	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	49543	No
13	GOM_NL__2PRFIN20110821_021820_000000383105_00391_49543_5330.N1	21-AUG-2011 02:18:20	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	49543	No
14	GOM_NL__2PRFIN20110821_022332_000000383105_00391_49543_5331.N1	21-AUG-2011 02:23:32	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	49543	No
15	GOM_NL__2PRFIN20110821_022735_000000493105_00391_49543_5332.N1	21-AUG-2011 02:27:35	Bright	48.500	74	11Bet Cas	2.2680	6600.0	97	49543	No
16	GOM_NL__2PRFIN20110821_024314_000000523105_00391_49543_5333.N1	21-AUG-2011 02:43:14	Bright	51.500	6	13Alp Aur	0.080000	3400.0	103	49543	No
17	GOM_NL__2PRFIN20110821_024623_000000413105_00391_49543_5334.N1	21-AUG-2011 02:46:23	Bright	41.000	107	37The Aur	2.6490	11000.	82	49543	No
18	GOM_NL__2PRFIN20110821_024939_000000573105_00391_49543_5335.N1	21-AUG-2011 02:49:39	Twilight_stray	57.000	28	12Bet Tau	1.6500	15200.	114	49543	No
19	GOM_NL__2PRFIN20110821_025233_000000453105_00391_49543_5336.N1	21-AUG-2011 02:52:33	Twilight_stray	44.500	44	24Gam Gem	1.9280	11000.	89	49543	No
20	GOM_NL__2PRFIN20110821_025620_000000653105_00391_49543_5337.N1	21-AUG-2011 02:56:20	Dark	65.000	14	58Alp Ori	0.87000	3000.0	130	49543	No
21	GOM_NL__2PRFIN20110821_025750_000000563105_00391_49543_5338.N1	21-AUG-2011 02:57:50	Dark	56.000	27	24Gam Ori	1.6360	26000.	112	49543	No
22	GOM_NL__2PRFIN20110821_025948_000000543105_00391_49543_5339.N1	21-AUG-2011 02:59:48	Dark	54.000	30	46Eps Ori	1.6940	30000.	108	49543	No
23	GOM_NL__2PRFIN20110821_030116_000000493105_00391_49543_5340.N1	21-AUG-2011 03:01:16	Dark	49.000	125	44Iot Ori	2.7700	30000.	98	49543	No
24	GOM_NL__2PRFIN20110821_030305_000000633105_00391_49543_5341.N1	21-AUG-2011 03:03:05	Dark	63.000	7	19Bet Ori	0.10000	14000.	126	49543	No
25	GOM_NL__2PRFIN20110821_031911_000000523105_00392_49544_5361.N1	21-AUG-2011 03:19:11	Dark	52.000	157	The1Eri	2.9060	9300.0	104	49544	No
26	GOM_NL__2PRFIN20110821_032233_000000453105_00392_49544_5362.N1	21-AUG-2011 03:22:33	Dark	45.000	9	Alp Eri	0.45300	24000.	90	49544	No
27	GOM_NL__2PRFIN20110821_032825_000000523105_00392_49544_5363.N1	21-AUG-2011 03:28:25	Straylight	52.000	84	Alp Phe	2.3970	4500.0	104	49544	No
28	GOM_NL__2PRFIN20110821_033039_000000483105_00392_49544_5364.N1	21-AUG-2011 03:30:39	Straylight	47.500	63	Bet Gru	2.1500	2800.0	95	49544	No
29	GOM_NL__2PRFIN20110821_033521_000000523105_00392_49544_5365.N1	21-AUG-2011 03:35:21	Twilight_stray	51.500	18	24Alp PsA	1.1660	9700.0	103	49544	No
30	GOM_NL__2PRFIN20110821_034037_000000413105_00392_49544_5366.N1	21-AUG-2011 03:40:37	Bright	40.500	142	49Del Cap	2.8500	8900.0	81	49544	No
31	GOM_NL__2PRFIN20110821_034354_000000413105_00392_49544_5367.N1	21-AUG-2011 03:43:54	Bright	40.500	154	22Bet Aqr	2.8990	5700.0	81	49544	No
32	GOM_NL__2PRFIN20110821_034541_000000453105_00392_49544_5368.N1	21-AUG-2011 03:45:41	Bright	44.500	162	34Alp Aqr	2.9440	5350.0	89	49544	No
33	GOM_NL__2PRFIN20110821_034845_000000423105_00392_49544_5369.N1	21-AUG-2011 03:48:45	Bright	42.000	61	8Eps Peg	2.1000	3900.0	84	49544	No
34	GOM_NL__2PRFIN20110821_035522_000000383105_00392_49544_5370.N1	21-AUG-2011 03:55:22	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	49544	No
35	GOM_NL__2PRFIN20110821_035834_000000383105_00392_49544_5371.N1	21-AUG-2011 03:58:34	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	49544	No
36	GOM_NL__2PRFIN20110821_040346_000000393105_00392_49544_5372.N1	21-AUG-2011 04:03:46	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	49544	No
37	GOM_NL__2PRFIN20110821_040749_000000463105_00392_49544_5373.N1	21-AUG-2011 04:07:49	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	49544	No
38	GOM_NL__2PRFIN20110821_042328_000000513105_00392_49544_5374.N1	21-AUG-2011 04:23:28	Bright	50.500	6	13Alp Aur	0.080000	3400.0	101	49544	No
39	GOM_NL__2PRFIN20110821_042637_000000413105_00392_49544_5375.N1	21-AUG-2011 04:26:37	Bright	40.500	107	37The Aur	2.6490	11000.	81	49544	No
40	GOM_NL__2PRFIN20110821_042953_000000553105_00392_49544_5376.N1	21-AUG-2011 04:29:53	Twilight_stray	55.000	28	12Bet Tau	1.6500	15200.	110	49544	No
41	GOM_NL__2PRFIN20110821_043248_000000473105_00392_49544_5377.N1	21-AUG-2011 04:32:48	Twilight_stray	46.500	44	24Gam Gem	1.9280	11000.	93	49544	No
42	GOM_NL__2PRFIN20110821_043635_000000603105_00392_49544_5378.N1	21-AUG-2011 04:36:35	Dark	59.500	14	58Alp Ori	0.87000	3000.0	119	49544	No

279	GOM_NL__2PRFIN20110821_212359_000000483105_00402_49554_4647.N1	21-AUG-2011 21:23:59	Dark	48.000	125	44Iot Ori	2.7700	30000.	96	49554	No
280	GOM_NL__2PRFIN20110821_212550_000000633105_00402_49554_4648.N1	21-AUG-2011 21:25:50	Dark	62.500	7	19Bet Ori	0.10000	14000.	125	49554	No
281	GOM_NL__2PRFIN20110821_212728_000000473105_00402_49554_4649.N1	21-AUG-2011 21:27:28	Dark	47.000	101	11Alp Lep	2.5820	7000.0	94	49554	No
282	GOM_NL__2PRFIN20110821_214158_000000543105_00403_49555_4660.N1	21-AUG-2011 21:41:58	Dark	54.000	157	The1Eri	2.9060	9300.0	108	49555	No
283	GOM_NL__2PRFIN20110821_214514_000000463105_00403_49555_4661.N1	21-AUG-2011 21:45:14	Dark	45.500	9	Alp Eri	0.45300	24000.	91	49555	No
284	GOM_NL__2PRFIN20110821_215107_000000513105_00403_49555_4662.N1	21-AUG-2011 21:51:07	Straylight	50.500	84	Alp Phe	2.3970	4500.0	101	49555	No
285	GOM_NL__2PRFIN20110821_215317_000000553105_00403_49555_4663.N1	21-AUG-2011 21:53:17	Straylight	55.000	63	Bet Gru	2.1500	2800.0	110	49555	No
286	GOM_NL__2PRFIN20110821_215759_000000533105_00403_49555_4664.N1	21-AUG-2011 21:57:59	Tw_i_and_stray	52.500	18	24Alp PsA	1.1660	9700.0	105	49555	No
287	GOM_NL__2PRFIN20110821_220312_000000423105_00403_49555_4665.N1	21-AUG-2011 22:03:12	Bright	42.000	142	49Del Cap	2.8500	8900.0	84	49555	No
288	GOM_NL__2PRFIN20110821_220628_000000403105_00403_49555_4666.N1	21-AUG-2011 22:06:28	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	49555	No
289	GOM_NL__2PRFIN20110821_220813_000000453105_00403_49555_4667.N1	21-AUG-2011 22:08:13	Bright	45.000	162	34Alp Aqr	2.9440	5350.0	90	49555	No
290	GOM_NL__2PRFIN20110821_221117_000000423105_00403_49555_4668.N1	21-AUG-2011 22:11:17	Bright	41.500	61	8Eps Peg	2.1000	3900.0	83	49555	No
291	GOM_NL__2PRFIN20110821_221755_000000373105_00403_49555_4669.N1	21-AUG-2011 22:17:55	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	49555	No
292	GOM_NL__2PRFIN20110821_222107_000000383105_00403_49555_4670.N1	21-AUG-2011 22:21:07	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	49555	No
293	GOM_NL__2PRFIN20110821_222618_000000363105_00403_49555_4671.N1	21-AUG-2011 22:26:18	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	49555	No
294	GOM_NL__2PRFIN20110821_223014_000000473105_00403_49555_4672.N1	21-AUG-2011 22:30:14	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	49555	No
295	GOM_NL__2PRFIN20110821_224600_000000533105_00403_49555_4673.N1	21-AUG-2011 22:46:00	Bright	53.000	6	13Alp Aur	0.080000	3400.0	106	49555	No
296	GOM_NL__2PRFIN20110821_224911_000000463105_00403_49555_4674.N1	21-AUG-2011 22:49:11	Bright	46.000	107	37The Aur	2.6490	11000.	92	49555	No
297	GOM_NL__2PRFIN20110821_225229_000000563105_00403_49555_4675.N1	21-AUG-2011 22:52:29	Tw_i_and_stray	56.000	28	12Bet Tau	1.6500	15200.	112	49555	No
298	GOM_NL__2PRFIN20110821_225525_000000473105_00403_49555_4676.N1	21-AUG-2011 22:55:25	Tw_i_and_stray	47.000	44	24Gam Gem	1.9280	11000.	94	49555	No
299	GOM_NL__2PRFIN20110821_225915_000000553105_00403_49555_4677.N1	21-AUG-2011 22:59:15	Dark	55.000	14	58Alp Ori	0.87000	3000.0	110	49555	No
300	GOM_NL__2PRFIN20110821_230047_000000583105_00403_49555_4678.N1	21-AUG-2011 23:00:47	Dark	58.000	27	24Gam Ori	1.6360	26000.	116	49555	No
301	GOM_NL__2PRFIN20110821_230245_000000523105_00403_49555_4679.N1	21-AUG-2011 23:02:45	Dark	51.500	30	46Eps Ori	1.6940	30000.	103	49555	No
302	GOM_NL__2PRFIN20110821_230414_000000503105_00403_49555_4680.N1	21-AUG-2011 23:04:14	Dark	49.500	125	44Iot Ori	2.7700	30000.	99	49555	No
303	GOM_NL__2PRFIN20110821_230605_000000643105_00403_49555_4681.N1	21-AUG-2011 23:06:05	Dark	64.000	7	19Bet Ori	0.10000	14000.	128	49555	No
304	GOM_NL__2PRFIN20110821_230743_000000493105_00403_49555_4682.N1	21-AUG-2011 23:07:43	Dark	48.500	101	11Alp Lep	2.5820	7000.0	97	49555	No
305	GOM_NL__2PRFIN20110821_232213_000000553105_00404_49556_4668.N1	21-AUG-2011 23:22:13	Dark	54.500	157	The1Eri	2.9060	9300.0	109	49556	No
306	GOM_NL__2PRFIN20110821_232528_000000463105_00404_49556_4669.N1	21-AUG-2011 23:25:28	Dark	45.500	9	Alp Eri	0.45300	24000.	91	49556	No
307	GOM_NL__2PRFIN20110821_233122_000000513105_00404_49556_4670.N1	21-AUG-2011 23:31:22	Straylight	51.000	84	Alp Phe	2.3970	4500.0	102	49556	No
308	GOM_NL__2PRFIN20110821_233331_000000563105_00404_49556_4671.N1	21-AUG-2011 23:33:31	Straylight	55.500	63	Bet Gru	2.1500	2800.0	111	49556	No
309	GOM_NL__2PRFIN20110821_233813_000000503105_00404_49556_4672.N1	21-AUG-2011 23:38:13	Tw_i_and_stray	50.000	18	24Alp PsA	1.1660	9700.0	100	49556	No
310	GOM_NL__2PRFIN20110821_234326_000000443105_00404_49556_4673.N1	21-AUG-2011 23:43:26	Bright	43.500	142	49Del Cap	2.8500	8900.0	87	49556	No
311	GOM_NL__2PRFIN20110821_234642_000000403105_00404_49556_4674.N1	21-AUG-2011 23:46:42	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	49556	No
312	GOM_NL__2PRFIN20110821_234827_000000443105_00404_49556_4675.N1	21-AUG-2011 23:48:27	Bright	43.500	162	34Alp Aqr	2.9440	5350.0	87	49556	No
313	GOM_NL__2PRFIN20110821_235131_000000423105_00404_49556_4676.N1	21-AUG-2011 23:51:31	Bright	41.500	61	8Eps Peg	2.1000	3900.0	83	49556	No
314	GOM_NL__2PRFIN20110821_235809_000000383105_00404_49556_4677.N1	21-AUG-2011 23:58:09	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	49556	No

3. Quality information per product

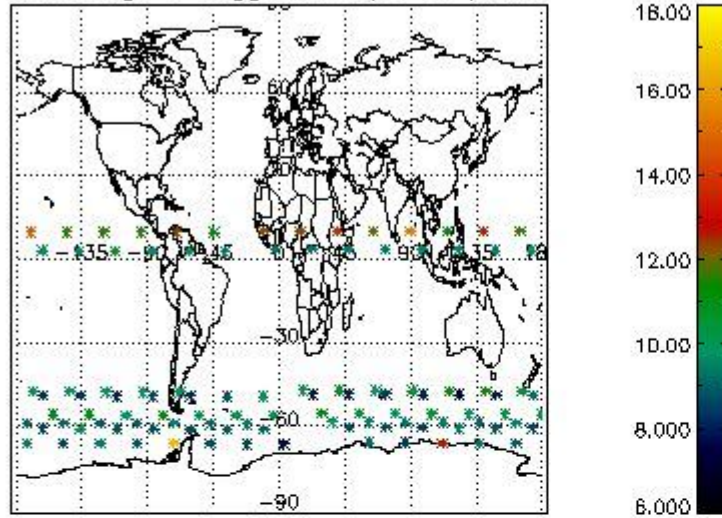
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

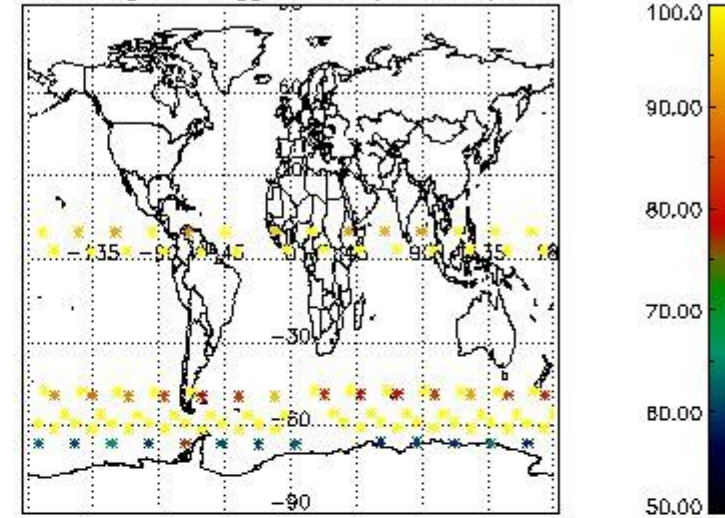


3.2 Plot quality information per product (world map)

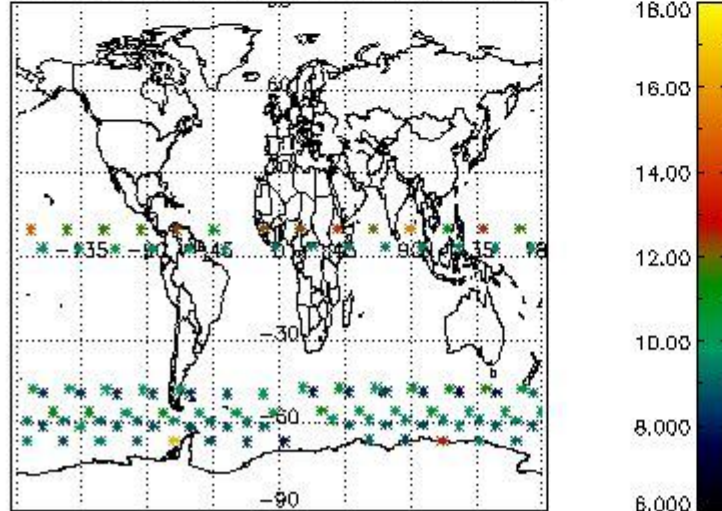
Percentage of flagged data per O3 profile



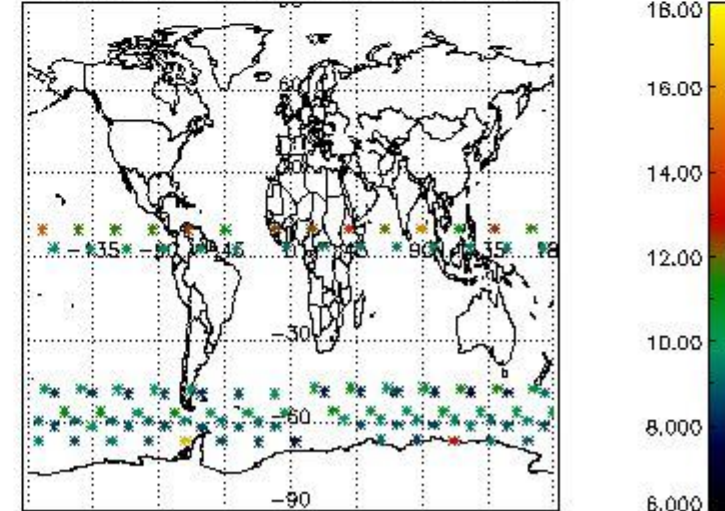
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

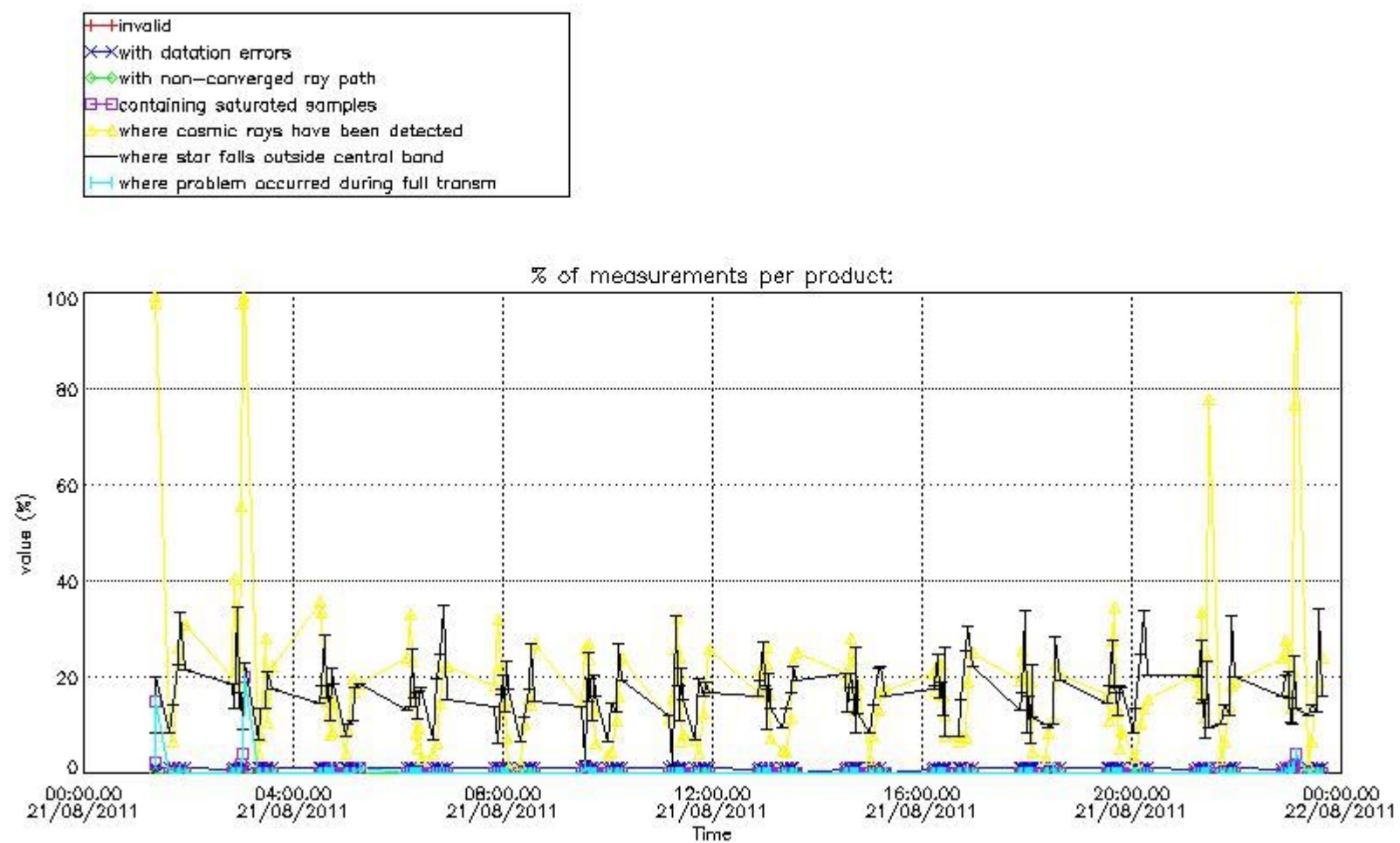


4. Level 1 quality information per product

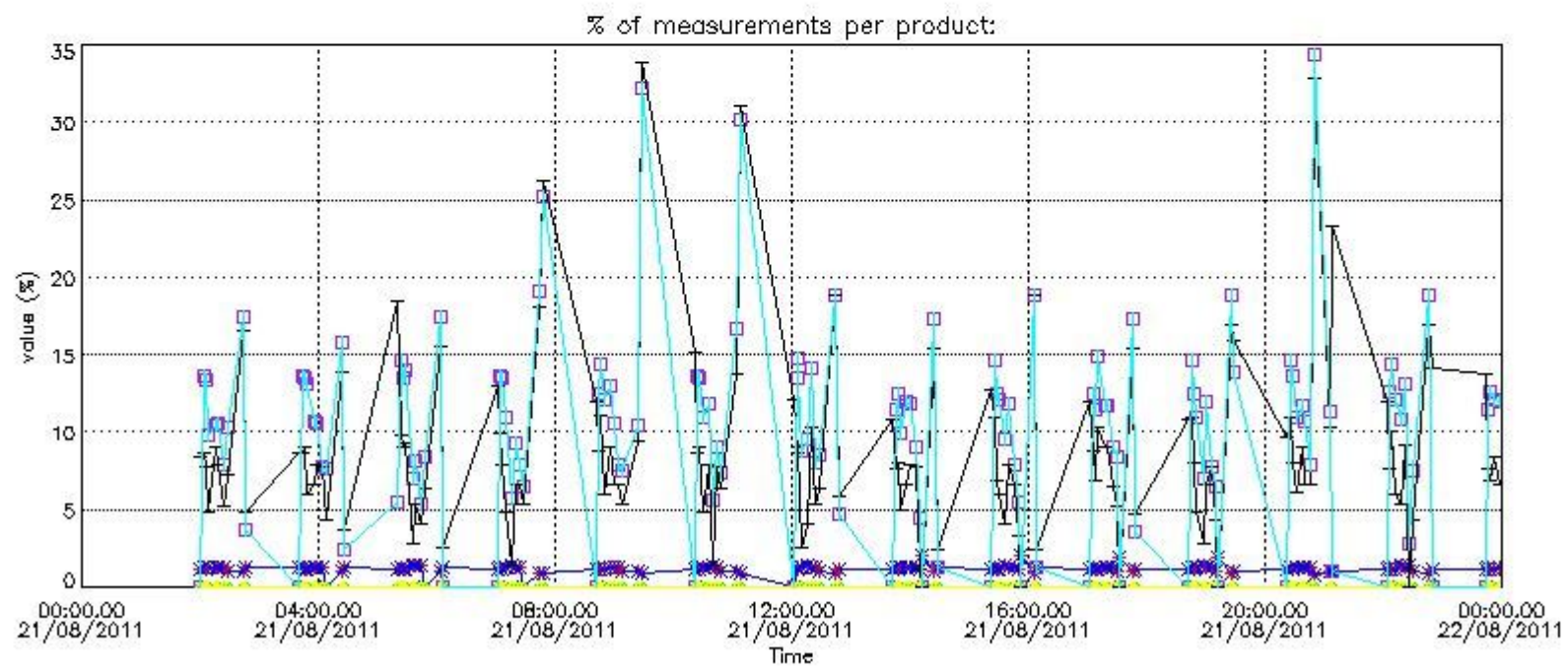
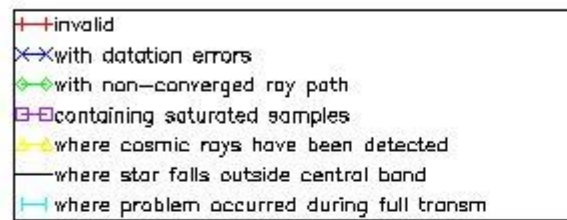
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



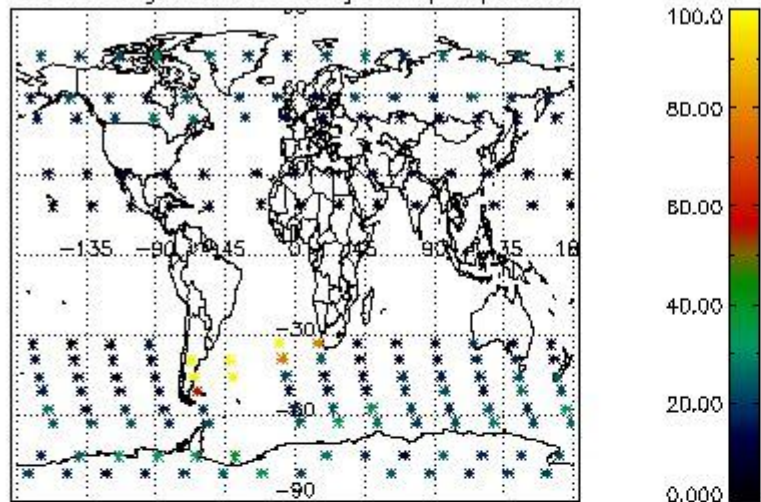
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



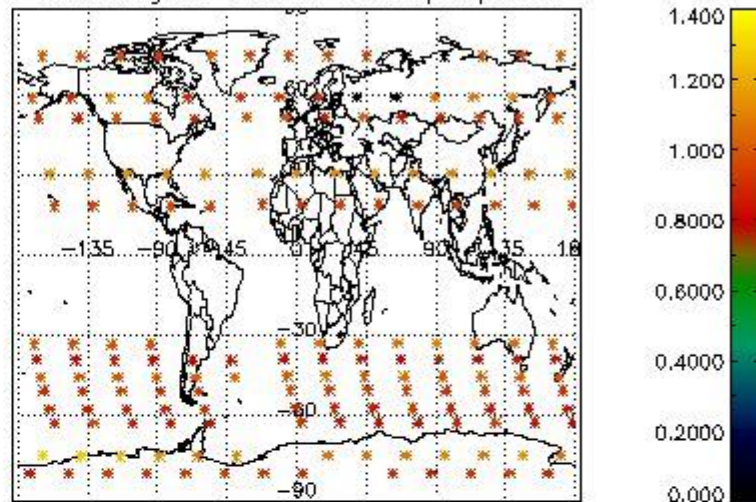
4.2 Plot quality information per product coming from level 1b processing (world map)

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

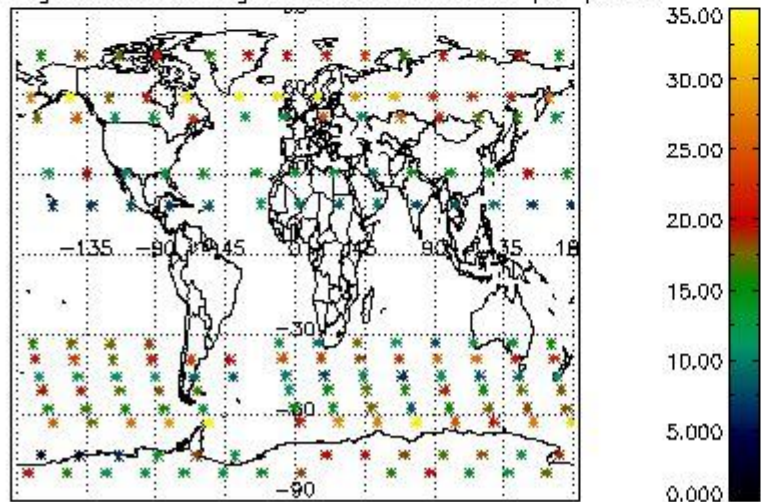
Percentage of cosmic ray hits per profile



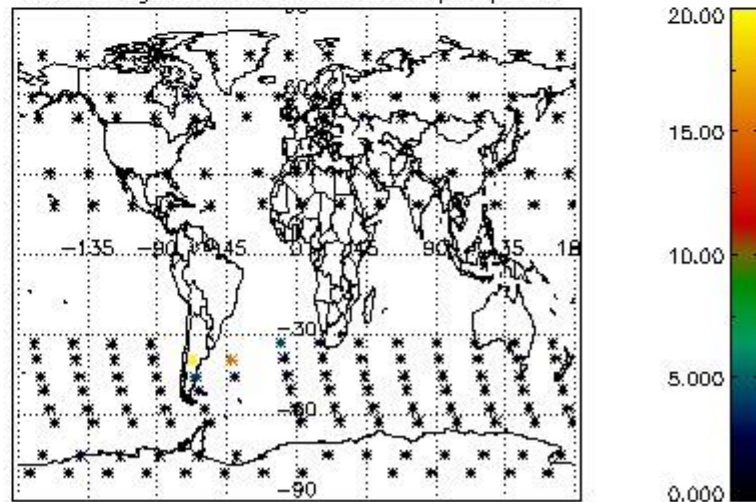
Percentage of datation errors per profile



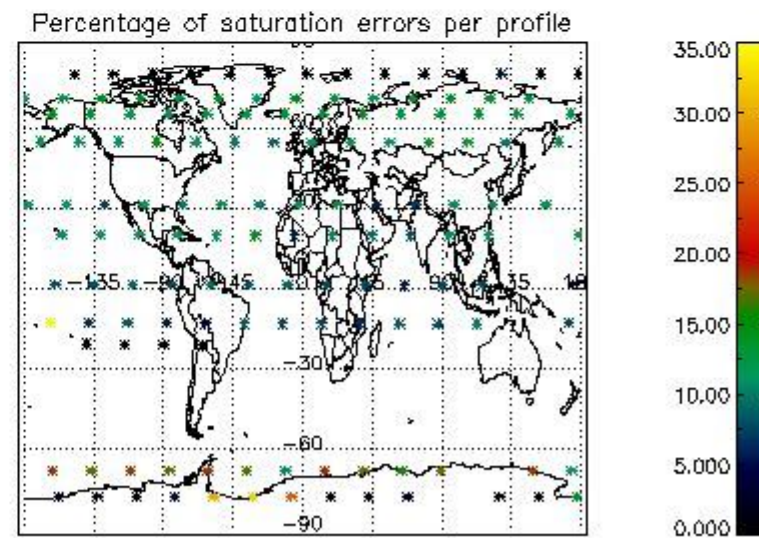
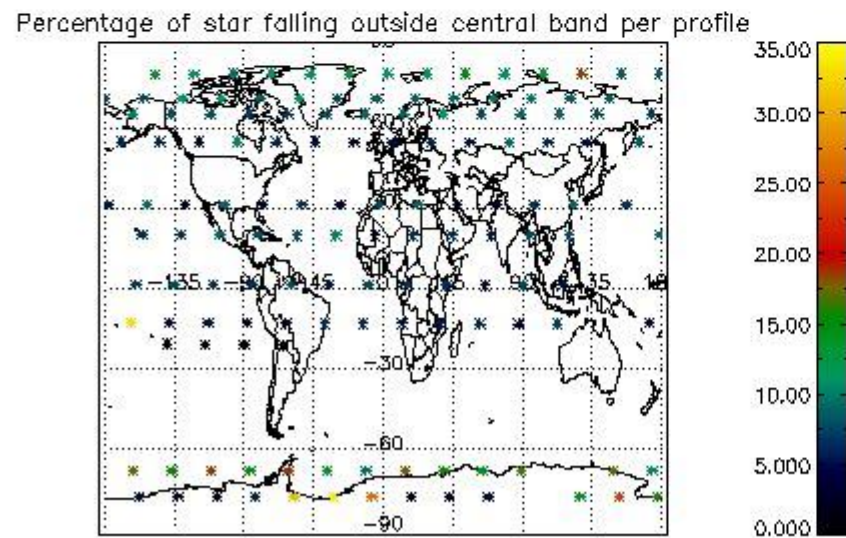
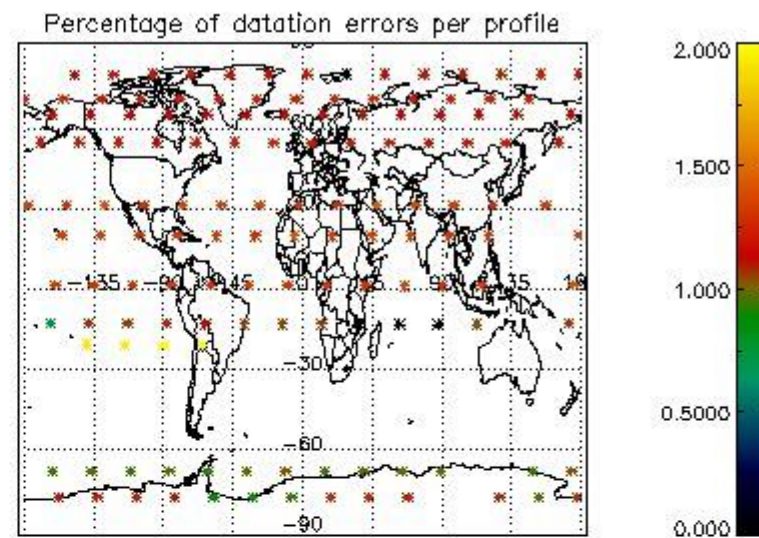
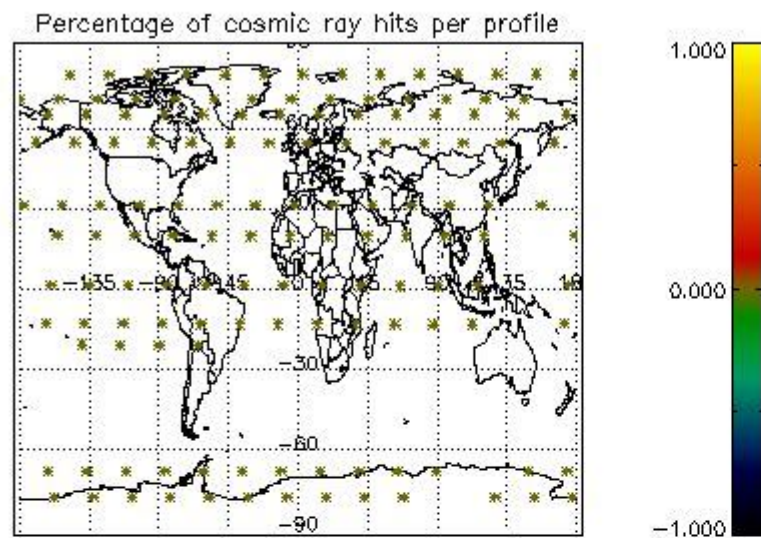
Percentage of star falling outside central band per profile



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

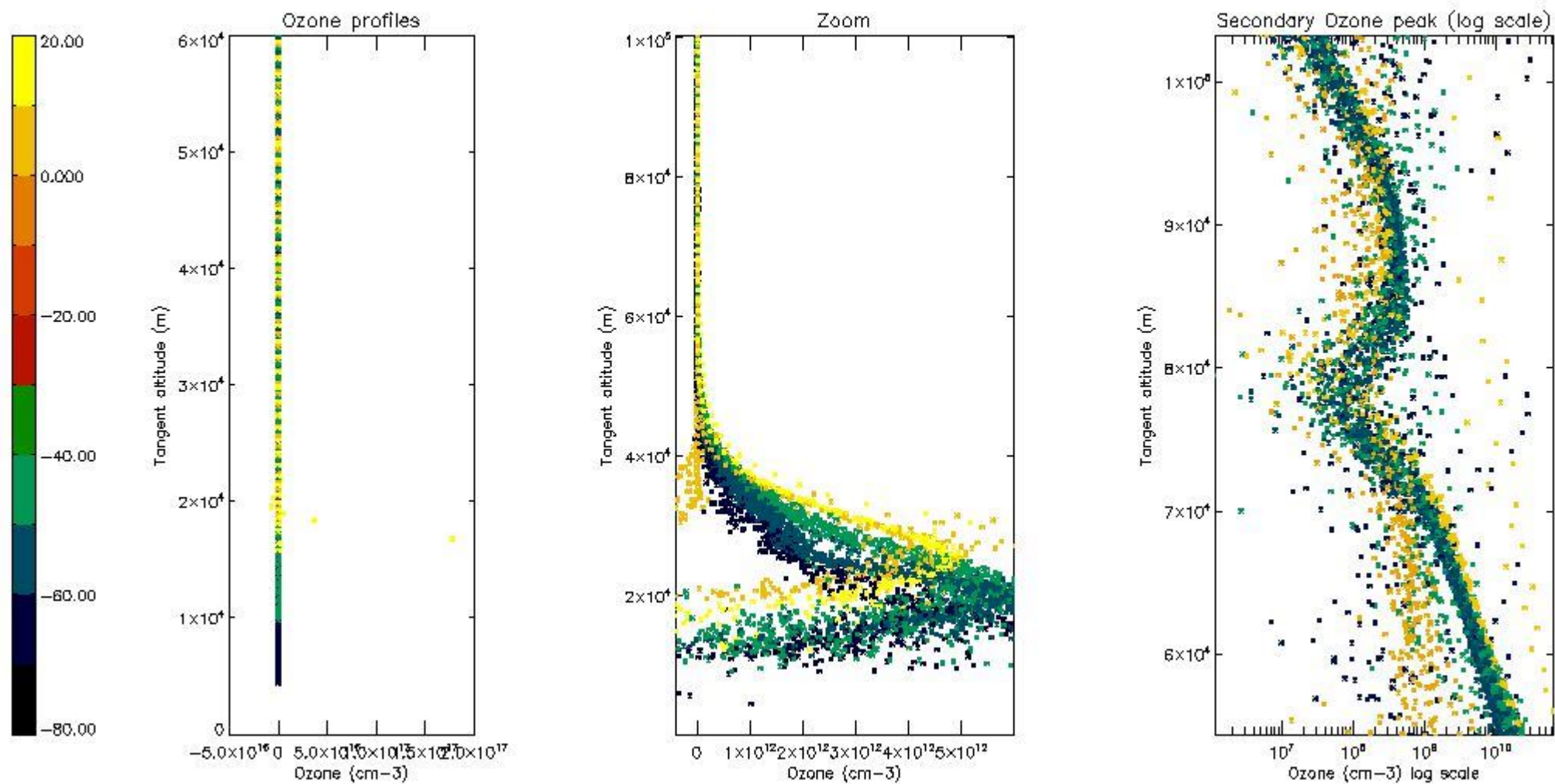
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	39
STD < 20	22

STD < 10	18
STD < 5	13

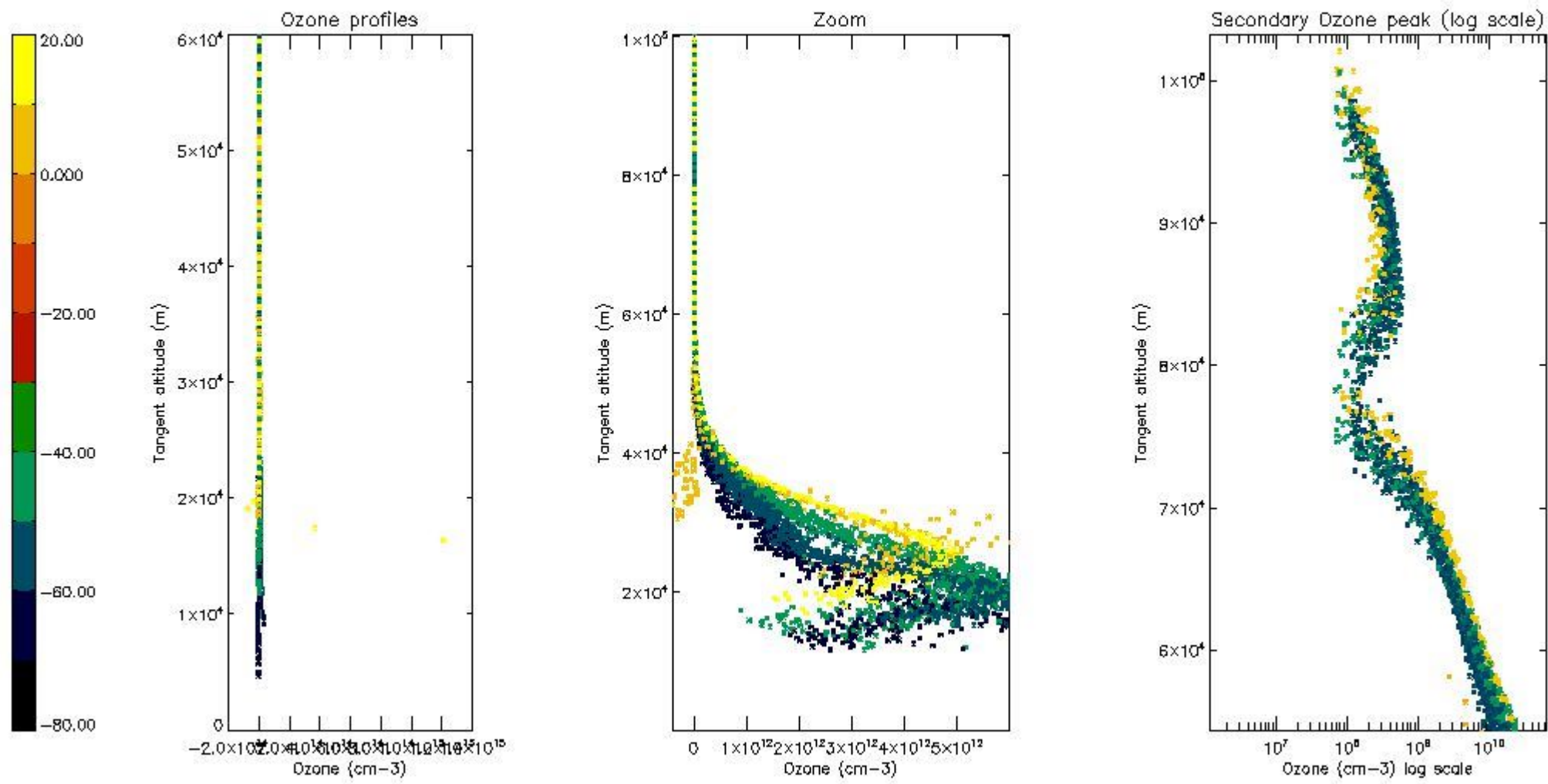
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



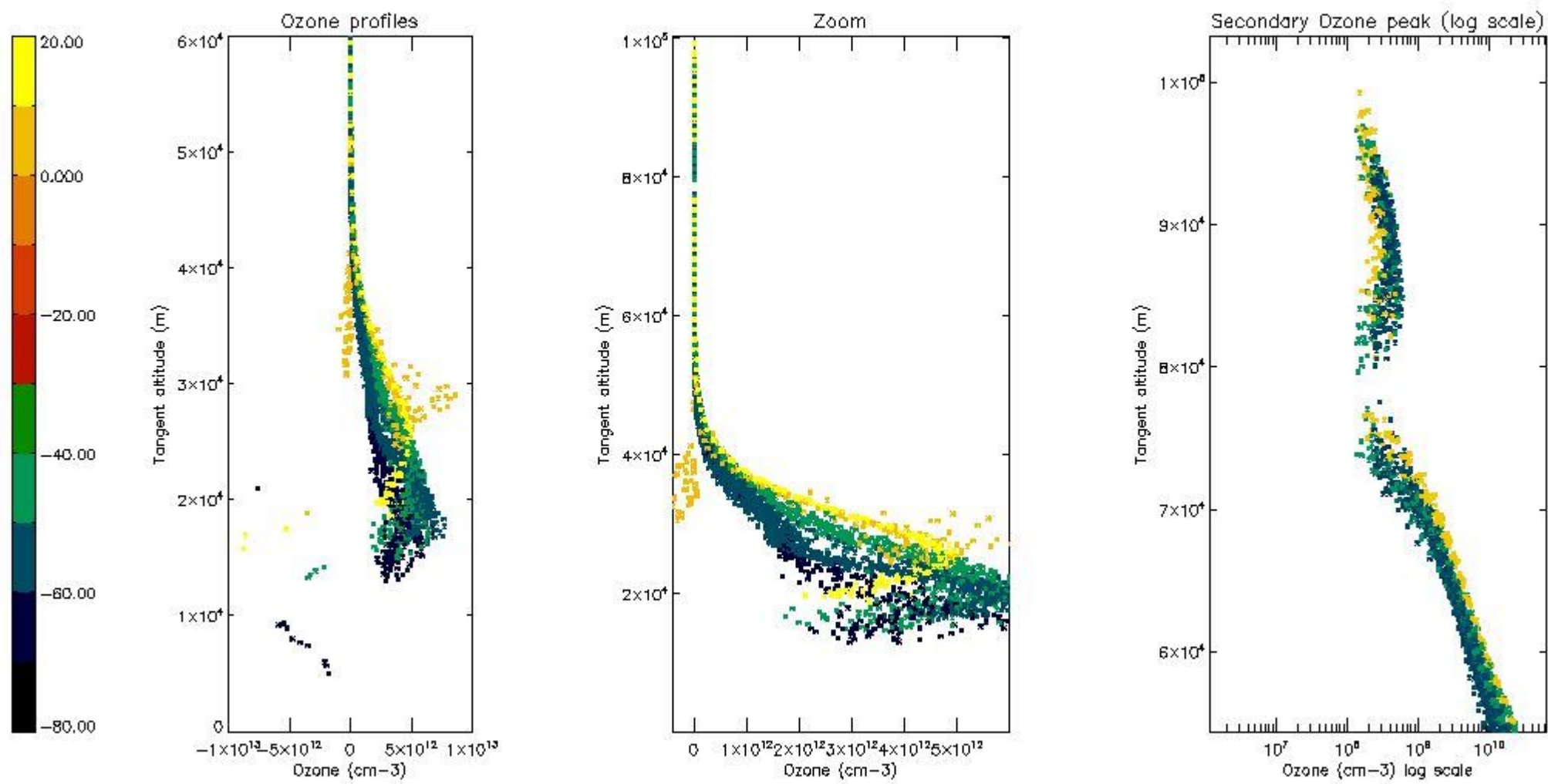
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



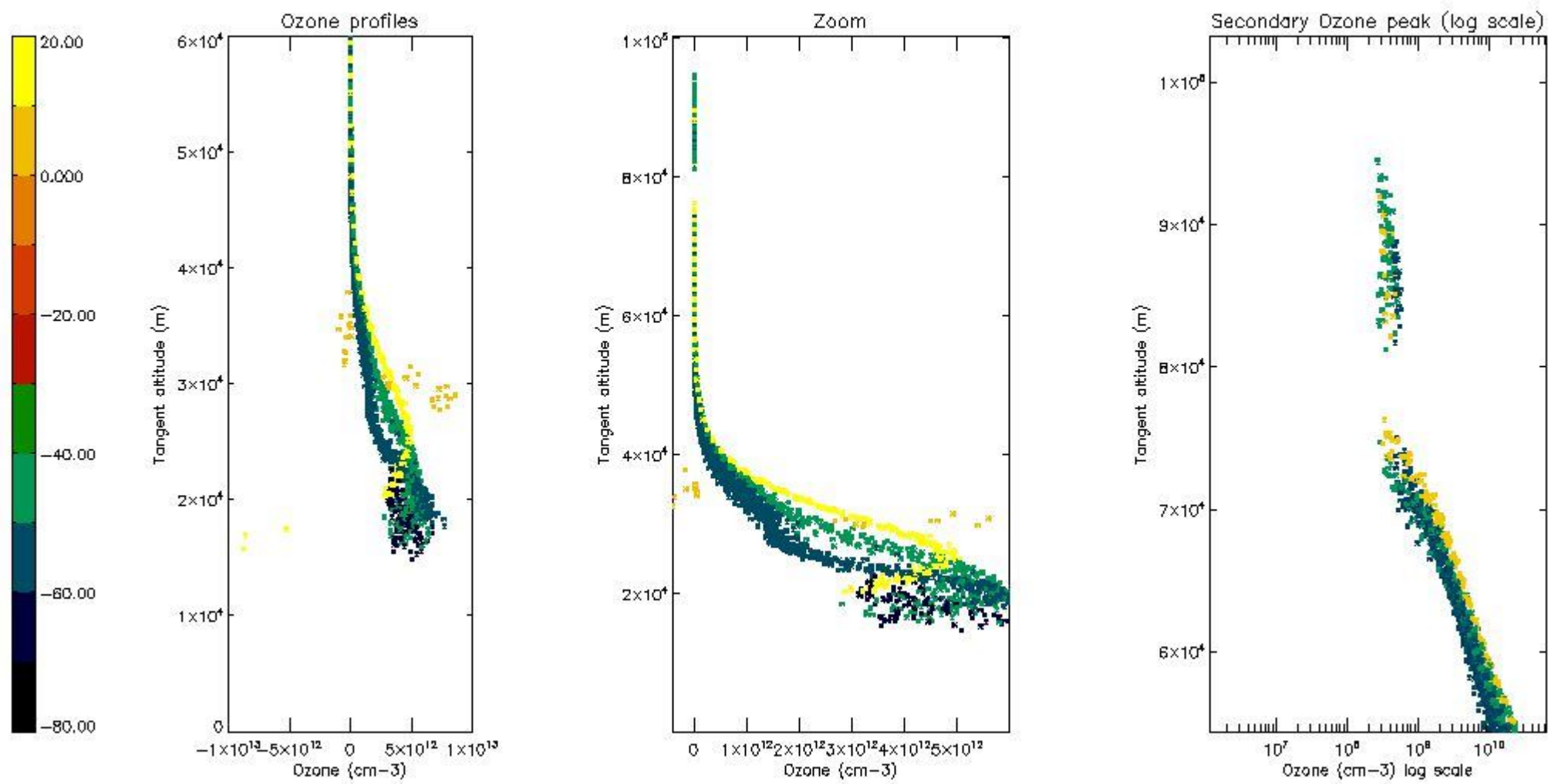
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



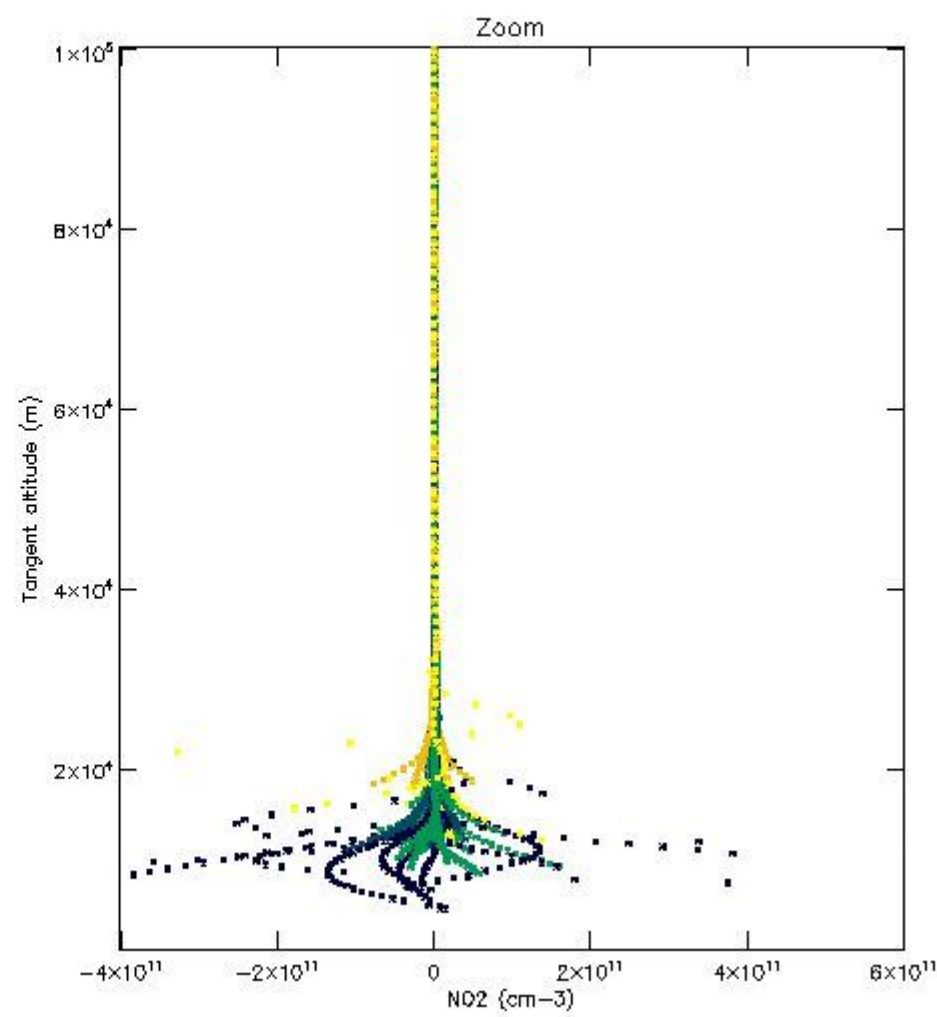
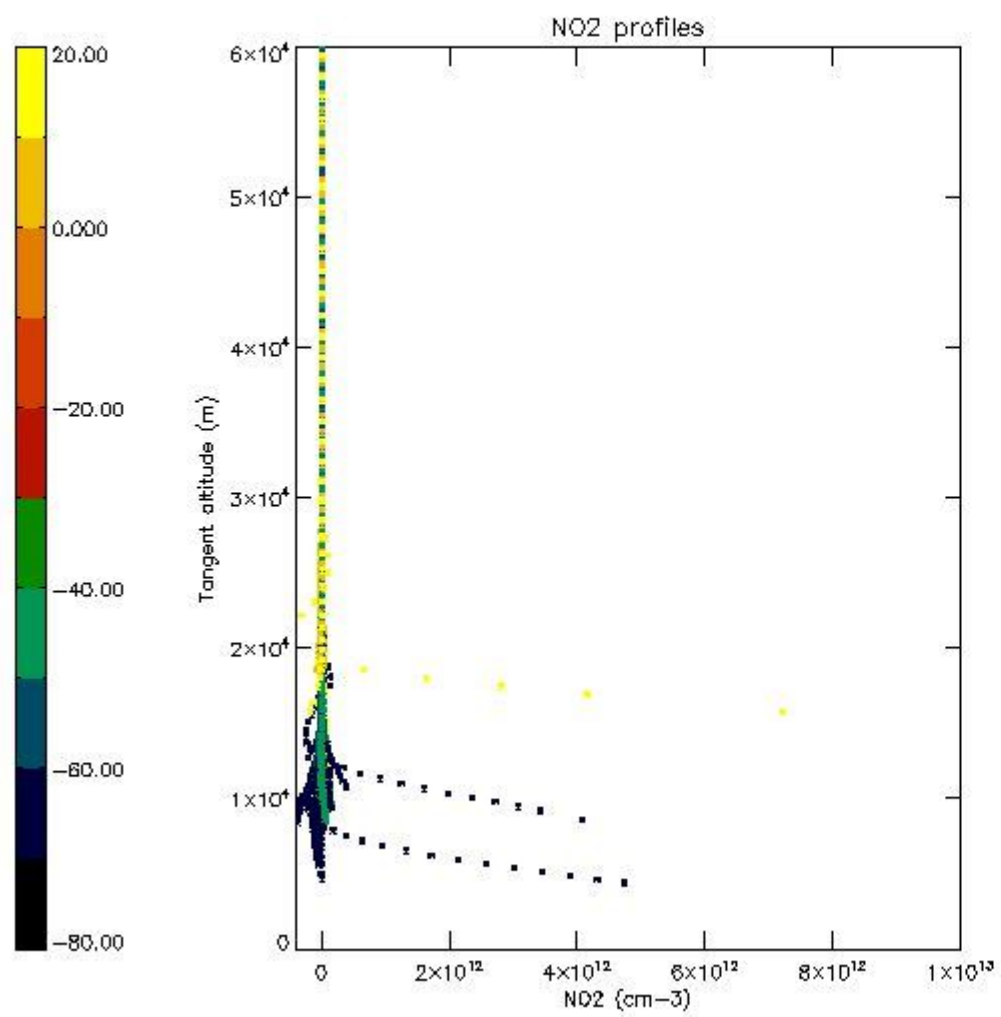
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



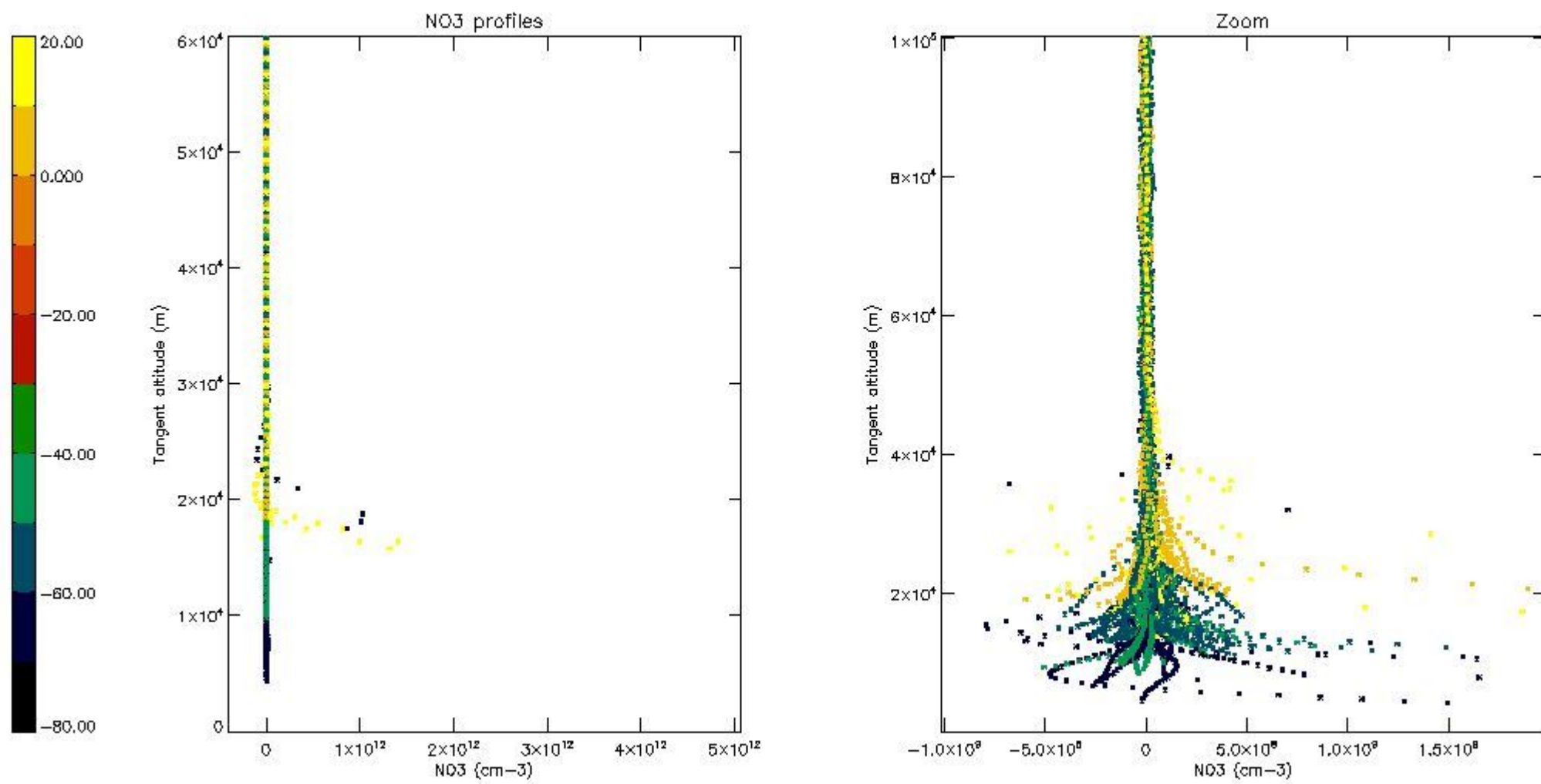
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



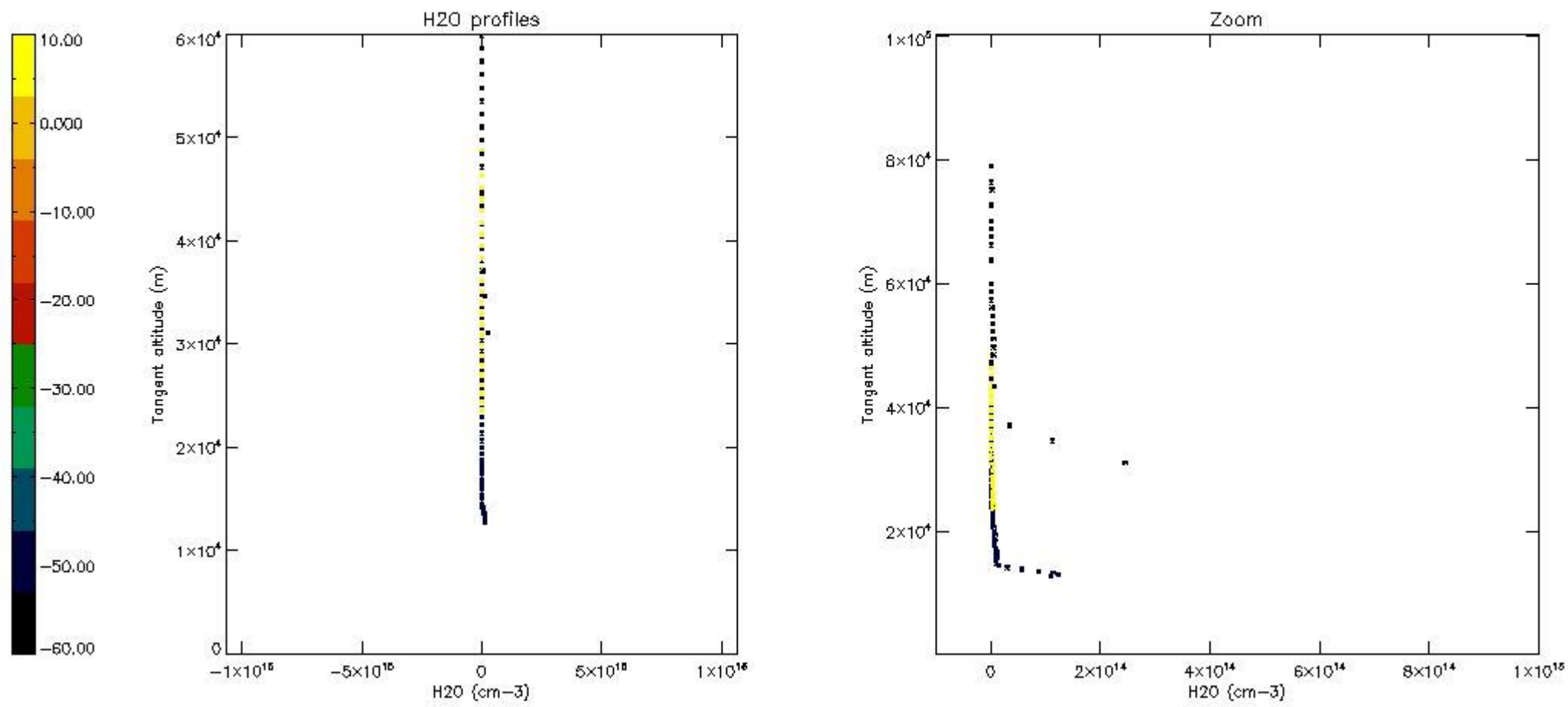
5.7 Plot NO3 profiles for all STD (dark without errors)

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-AUG-2011 01:21:01
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-AUG-2011 01:21:01
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-AUG-2011 01:21:01

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	24APR2013 17:13:45
Data source version	GOMOS/6.01
Start time of products	21-08-2011 (21AUG2011 00:00:00)
Stop time of products	22-08-2011 (22AUG2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	314
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

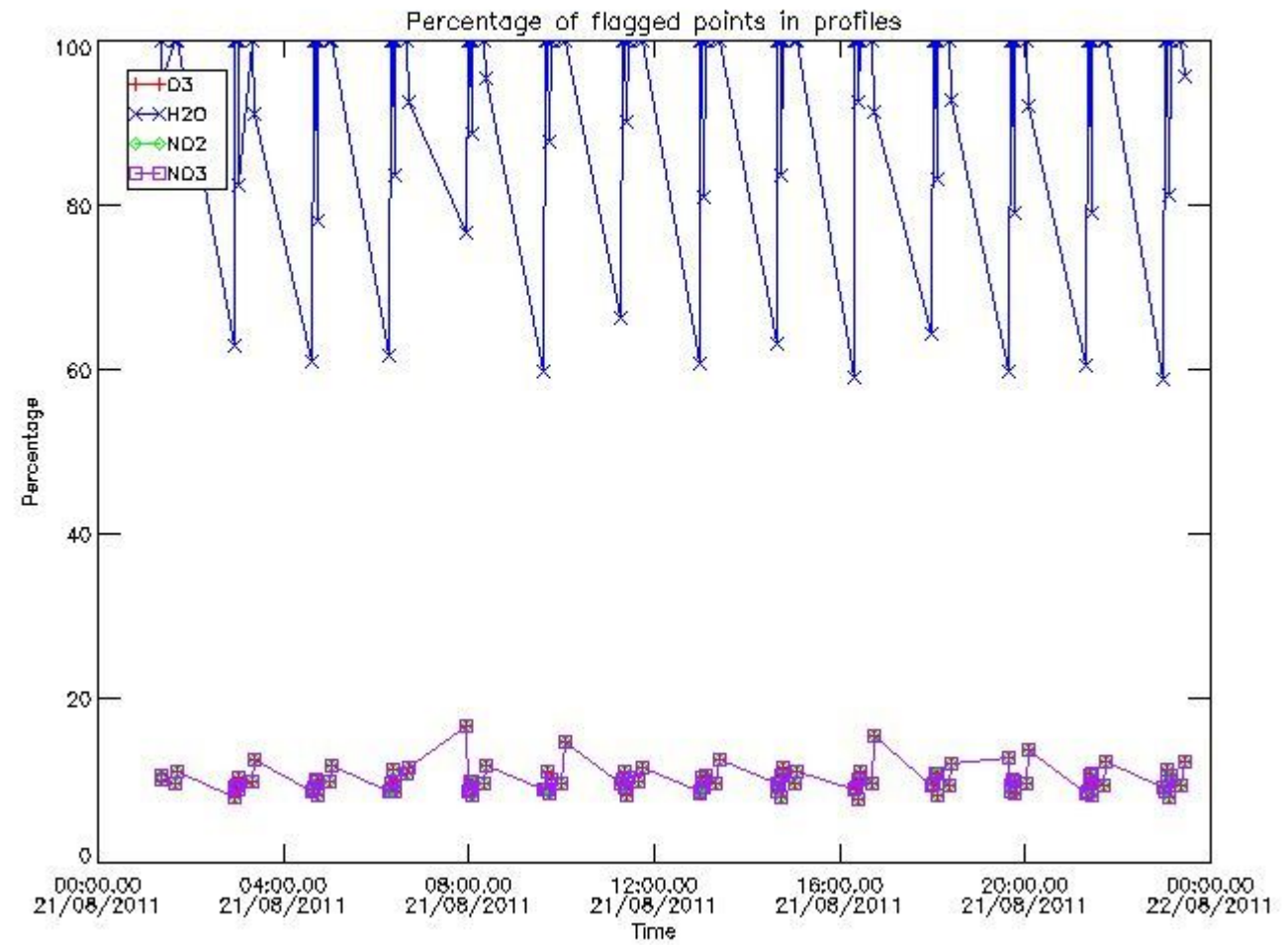
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110821_012101_000000493105_00390_49542_5244.N1	21-AUG-2011 01:21:01	Dark	48.500	125	44Iot Ori	2.7700	30000.	97	49542	No
2	GOM_NL__2PRFIN20110821_012250_000000603105_00390_49542_5245.N1	21-AUG-2011 01:22:50	Dark	60.000	7	19Bet Ori	0.10000	14000.	120	49542	No
3	GOM_NL__2PRFIN20110821_013856_000000543105_00391_49543_5320.N1	21-AUG-2011 01:38:56	Dark	53.500	157	The1Eri	2.9060	9300.0	107	49543	No
4	GOM_NL__2PRFIN20110821_014218_000000463105_00391_49543_5321.N1	21-AUG-2011 01:42:18	Dark	45.500	9	Alp Eri	0.45300	24000.	91	49543	No
5	GOM_NL__2PRFIN20110821_014810_000000583105_00391_49543_5322.N1	21-AUG-2011 01:48:10	Straylight	57.500	84	Alp Phe	2.3970	4500.0	115	49543	No
6	GOM_NL__2PRFIN20110821_015024_000000573105_00391_49543_5323.N1	21-AUG-2011 01:50:24	Straylight	56.500	63	Bet Gru	2.1500	2800.0	113	49543	No
7	GOM_NL__2PRFIN20110821_015507_000000543105_00391_49543_5324.N1	21-AUG-2011 01:55:07	Twilight_stray	53.500	18	24Alp PsA	1.1660	9700.0	107	49543	No
8	GOM_NL__2PRFIN20110821_020023_000000423105_00391_49543_5325.N1	21-AUG-2011 02:00:23	Bright	41.500	142	49Del Cap	2.8500	8900.0	83	49543	No
9	GOM_NL__2PRFIN20110821_020340_000000413105_00391_49543_5326.N1	21-AUG-2011 02:03:40	Bright	40.500	154	22Bet Aqr	2.8990	5700.0	81	49543	No
10	GOM_NL__2PRFIN20110821_020526_000000453105_00391_49543_5327.N1	21-AUG-2011 02:05:26	Bright	45.000	162	34Alp Aqr	2.9440	5350.0	90	49543	No
11	GOM_NL__2PRFIN20110821_020832_000000413105_00391_49543_5328.N1	21-AUG-2011 02:08:32	Bright	41.000	61	8Eps Peg	2.1000	3900.0	82	49543	No
12	GOM_NL__2PRFIN20110821_021508_000000393105_00391_49543_5329.N1	21-AUG-2011 02:15:08	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	49543	No
13	GOM_NL__2PRFIN20110821_021820_000000383105_00391_49543_5330.N1	21-AUG-2011 02:18:20	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	49543	No
14	GOM_NL__2PRFIN20110821_022332_000000383105_00391_49543_5331.N1	21-AUG-2011 02:23:32	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	49543	No
15	GOM_NL__2PRFIN20110821_022735_000000493105_00391_49543_5332.N1	21-AUG-2011 02:27:35	Bright	48.500	74	11Bet Cas	2.2680	6600.0	97	49543	No
16	GOM_NL__2PRFIN20110821_024314_000000523105_00391_49543_5333.N1	21-AUG-2011 02:43:14	Bright	51.500	6	13Alp Aur	0.080000	3400.0	103	49543	No
17	GOM_NL__2PRFIN20110821_024623_000000413105_00391_49543_5334.N1	21-AUG-2011 02:46:23	Bright	41.000	107	37The Aur	2.6490	11000.	82	49543	No
18	GOM_NL__2PRFIN20110821_024939_000000573105_00391_49543_5335.N1	21-AUG-2011 02:49:39	Twilight_stray	57.000	28	12Bet Tau	1.6500	15200.	114	49543	No
19	GOM_NL__2PRFIN20110821_025233_000000453105_00391_49543_5336.N1	21-AUG-2011 02:52:33	Twilight_stray	44.500	44	24Gam Gem	1.9280	11000.	89	49543	No
20	GOM_NL__2PRFIN20110821_025620_000000653105_00391_49543_5337.N1	21-AUG-2011 02:56:20	Dark	65.000	14	58Alp Ori	0.87000	3000.0	130	49543	No
21	GOM_NL__2PRFIN20110821_025750_000000563105_00391_49543_5338.N1	21-AUG-2011 02:57:50	Dark	56.000	27	24Gam Ori	1.6360	26000.	112	49543	No
22	GOM_NL__2PRFIN20110821_025948_000000543105_00391_49543_5339.N1	21-AUG-2011 02:59:48	Dark	54.000	30	46Eps Ori	1.6940	30000.	108	49543	No
23	GOM_NL__2PRFIN20110821_030116_000000493105_00391_49543_5340.N1	21-AUG-2011 03:01:16	Dark	49.000	125	44Iot Ori	2.7700	30000.	98	49543	No
24	GOM_NL__2PRFIN20110821_030305_000000633105_00391_49543_5341.N1	21-AUG-2011 03:03:05	Dark	63.000	7	19Bet Ori	0.10000	14000.	126	49543	No
25	GOM_NL__2PRFIN20110821_031911_000000523105_00392_49544_5361.N1	21-AUG-2011 03:19:11	Dark	52.000	157	The1Eri	2.9060	9300.0	104	49544	No
26	GOM_NL__2PRFIN20110821_032233_000000453105_00392_49544_5362.N1	21-AUG-2011 03:22:33	Dark	45.000	9	Alp Eri	0.45300	24000.	90	49544	No
27	GOM_NL__2PRFIN20110821_032825_000000523105_00392_49544_5363.N1	21-AUG-2011 03:28:25	Straylight	52.000	84	Alp Phe	2.3970	4500.0	104	49544	No
28	GOM_NL__2PRFIN20110821_033039_000000483105_00392_49544_5364.N1	21-AUG-2011 03:30:39	Straylight	47.500	63	Bet Gru	2.1500	2800.0	95	49544	No
29	GOM_NL__2PRFIN20110821_033521_000000523105_00392_49544_5365.N1	21-AUG-2011 03:35:21	Twilight_stray	51.500	18	24Alp PsA	1.1660	9700.0	103	49544	No
30	GOM_NL__2PRFIN20110821_034037_000000413105_00392_49544_5366.N1	21-AUG-2011 03:40:37	Bright	40.500	142	49Del Cap	2.8500	8900.0	81	49544	No
31	GOM_NL__2PRFIN20110821_034354_000000413105_00392_49544_5367.N1	21-AUG-2011 03:43:54	Bright	40.500	154	22Bet Aqr	2.8990	5700.0	81	49544	No
32	GOM_NL__2PRFIN20110821_034541_000000453105_00392_49544_5368.N1	21-AUG-2011 03:45:41	Bright	44.500	162	34Alp Aqr	2.9440	5350.0	89	49544	No
33	GOM_NL__2PRFIN20110821_034845_000000423105_00392_49544_5369.N1	21-AUG-2011 03:48:45	Bright	42.000	61	8Eps Peg	2.1000	3900.0	84	49544	No
34	GOM_NL__2PRFIN20110821_035522_000000383105_00392_49544_5370.N1	21-AUG-2011 03:55:22	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	49544	No
35	GOM_NL__2PRFIN20110821_035834_000000383105_00392_49544_5371.N1	21-AUG-2011 03:58:34	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	49544	No
36	GOM_NL__2PRFIN20110821_040346_000000393105_00392_49544_5372.N1	21-AUG-2011 04:03:46	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	49544	No
37	GOM_NL__2PRFIN20110821_040749_000000463105_00392_49544_5373.N1	21-AUG-2011 04:07:49	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	49544	No
38	GOM_NL__2PRFIN20110821_042328_000000513105_00392_49544_5374.N1	21-AUG-2011 04:23:28	Bright	50.500	6	13Alp Aur	0.080000	3400.0	101	49544	No
39	GOM_NL__2PRFIN20110821_042637_000000413105_00392_49544_5375.N1	21-AUG-2011 04:26:37	Bright	40.500	107	37The Aur	2.6490	11000.	81	49544	No
40	GOM_NL__2PRFIN20110821_042953_000000553105_00392_49544_5376.N1	21-AUG-2011 04:29:53	Twilight_stray	55.000	28	12Bet Tau	1.6500	15200.	110	49544	No
41	GOM_NL__2PRFIN20110821_043248_000000473105_00392_49544_5377.N1	21-AUG-2011 04:32:48	Twilight_stray	46.500	44	24Gam Gem	1.9280	11000.	93	49544	No
42	GOM_NL__2PRFIN20110821_043635_000000603105_00392_49544_5378.N1	21-AUG-2011 04:36:35	Dark	59.500	14	58Alp Ori	0.87000	3000.0	119	49544	No

279	GOM_NL__2PRFIN20110821_212359_000000483105_00402_49554_4647.N1	21-AUG-2011 21:23:59	Dark	48.000	125	44Iot Ori	2.7700	30000.	96	49554	No
280	GOM_NL__2PRFIN20110821_212550_000000633105_00402_49554_4648.N1	21-AUG-2011 21:25:50	Dark	62.500	7	19Bet Ori	0.10000	14000.	125	49554	No
281	GOM_NL__2PRFIN20110821_212728_000000473105_00402_49554_4649.N1	21-AUG-2011 21:27:28	Dark	47.000	101	11Alp Lep	2.5820	7000.0	94	49554	No
282	GOM_NL__2PRFIN20110821_214158_000000543105_00403_49555_4660.N1	21-AUG-2011 21:41:58	Dark	54.000	157	The1Eri	2.9060	9300.0	108	49555	No
283	GOM_NL__2PRFIN20110821_214514_000000463105_00403_49555_4661.N1	21-AUG-2011 21:45:14	Dark	45.500	9	Alp Eri	0.45300	24000.	91	49555	No
284	GOM_NL__2PRFIN20110821_215107_000000513105_00403_49555_4662.N1	21-AUG-2011 21:51:07	Straylight	50.500	84	Alp Phe	2.3970	4500.0	101	49555	No
285	GOM_NL__2PRFIN20110821_215317_000000553105_00403_49555_4663.N1	21-AUG-2011 21:53:17	Straylight	55.000	63	Bet Gru	2.1500	2800.0	110	49555	No
286	GOM_NL__2PRFIN20110821_215759_000000533105_00403_49555_4664.N1	21-AUG-2011 21:57:59	Tw_i_and_stray	52.500	18	24Alp PsA	1.1660	9700.0	105	49555	No
287	GOM_NL__2PRFIN20110821_220312_000000423105_00403_49555_4665.N1	21-AUG-2011 22:03:12	Bright	42.000	142	49Del Cap	2.8500	8900.0	84	49555	No
288	GOM_NL__2PRFIN20110821_220628_000000403105_00403_49555_4666.N1	21-AUG-2011 22:06:28	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	49555	No
289	GOM_NL__2PRFIN20110821_220813_000000453105_00403_49555_4667.N1	21-AUG-2011 22:08:13	Bright	45.000	162	34Alp Aqr	2.9440	5350.0	90	49555	No
290	GOM_NL__2PRFIN20110821_221117_000000423105_00403_49555_4668.N1	21-AUG-2011 22:11:17	Bright	41.500	61	8Eps Peg	2.1000	3900.0	83	49555	No
291	GOM_NL__2PRFIN20110821_221755_000000373105_00403_49555_4669.N1	21-AUG-2011 22:17:55	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	49555	No
292	GOM_NL__2PRFIN20110821_222107_000000383105_00403_49555_4670.N1	21-AUG-2011 22:21:07	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	49555	No
293	GOM_NL__2PRFIN20110821_222618_000000363105_00403_49555_4671.N1	21-AUG-2011 22:26:18	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	49555	No
294	GOM_NL__2PRFIN20110821_223014_000000473105_00403_49555_4672.N1	21-AUG-2011 22:30:14	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	49555	No
295	GOM_NL__2PRFIN20110821_224600_000000533105_00403_49555_4673.N1	21-AUG-2011 22:46:00	Bright	53.000	6	13Alp Aur	0.080000	3400.0	106	49555	No
296	GOM_NL__2PRFIN20110821_224911_000000463105_00403_49555_4674.N1	21-AUG-2011 22:49:11	Bright	46.000	107	37The Aur	2.6490	11000.	92	49555	No
297	GOM_NL__2PRFIN20110821_225229_000000563105_00403_49555_4675.N1	21-AUG-2011 22:52:29	Tw_i_and_stray	56.000	28	12Bet Tau	1.6500	15200.	112	49555	No
298	GOM_NL__2PRFIN20110821_225525_000000473105_00403_49555_4676.N1	21-AUG-2011 22:55:25	Tw_i_and_stray	47.000	44	24Gam Gem	1.9280	11000.	94	49555	No
299	GOM_NL__2PRFIN20110821_225915_000000553105_00403_49555_4677.N1	21-AUG-2011 22:59:15	Dark	55.000	14	58Alp Ori	0.87000	3000.0	110	49555	No
300	GOM_NL__2PRFIN20110821_230047_000000583105_00403_49555_4678.N1	21-AUG-2011 23:00:47	Dark	58.000	27	24Gam Ori	1.6360	26000.	116	49555	No
301	GOM_NL__2PRFIN20110821_230245_000000523105_00403_49555_4679.N1	21-AUG-2011 23:02:45	Dark	51.500	30	46Eps Ori	1.6940	30000.	103	49555	No
302	GOM_NL__2PRFIN20110821_230414_000000503105_00403_49555_4680.N1	21-AUG-2011 23:04:14	Dark	49.500	125	44Iot Ori	2.7700	30000.	99	49555	No
303	GOM_NL__2PRFIN20110821_230605_000000643105_00403_49555_4681.N1	21-AUG-2011 23:06:05	Dark	64.000	7	19Bet Ori	0.10000	14000.	128	49555	No
304	GOM_NL__2PRFIN20110821_230743_000000493105_00403_49555_4682.N1	21-AUG-2011 23:07:43	Dark	48.500	101	11Alp Lep	2.5820	7000.0	97	49555	No
305	GOM_NL__2PRFIN20110821_232213_000000553105_00404_49556_4668.N1	21-AUG-2011 23:22:13	Dark	54.500	157	The1Eri	2.9060	9300.0	109	49556	No
306	GOM_NL__2PRFIN20110821_232528_000000463105_00404_49556_4669.N1	21-AUG-2011 23:25:28	Dark	45.500	9	Alp Eri	0.45300	24000.	91	49556	No
307	GOM_NL__2PRFIN20110821_233122_000000513105_00404_49556_4670.N1	21-AUG-2011 23:31:22	Straylight	51.000	84	Alp Phe	2.3970	4500.0	102	49556	No
308	GOM_NL__2PRFIN20110821_233331_000000563105_00404_49556_4671.N1	21-AUG-2011 23:33:31	Straylight	55.500	63	Bet Gru	2.1500	2800.0	111	49556	No
309	GOM_NL__2PRFIN20110821_233813_000000503105_00404_49556_4672.N1	21-AUG-2011 23:38:13	Tw_i_and_stray	50.000	18	24Alp PsA	1.1660	9700.0	100	49556	No
310	GOM_NL__2PRFIN20110821_234326_000000443105_00404_49556_4673.N1	21-AUG-2011 23:43:26	Bright	43.500	142	49Del Cap	2.8500	8900.0	87	49556	No
311	GOM_NL__2PRFIN20110821_234642_000000403105_00404_49556_4674.N1	21-AUG-2011 23:46:42	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	49556	No
312	GOM_NL__2PRFIN20110821_234827_000000443105_00404_49556_4675.N1	21-AUG-2011 23:48:27	Bright	43.500	162	34Alp Aqr	2.9440	5350.0	87	49556	No
313	GOM_NL__2PRFIN20110821_235131_000000423105_00404_49556_4676.N1	21-AUG-2011 23:51:31	Bright	41.500	61	8Eps Peg	2.1000	3900.0	83	49556	No
314	GOM_NL__2PRFIN20110821_235809_000000383105_00404_49556_4677.N1	21-AUG-2011 23:58:09	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	49556	No

3. Quality information per product

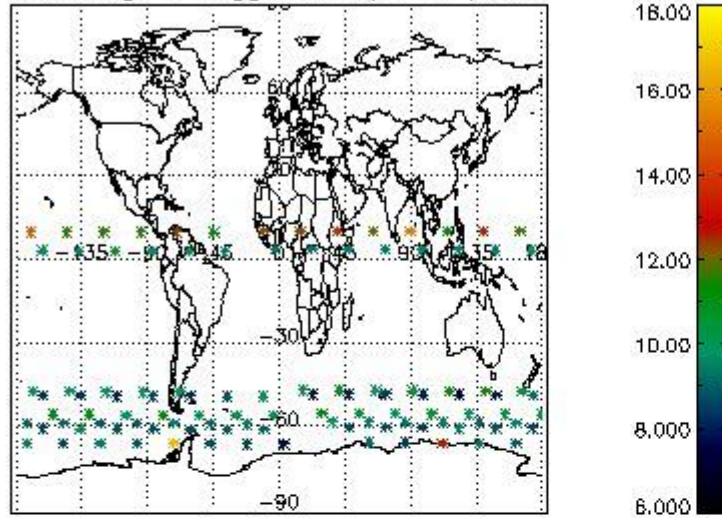
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

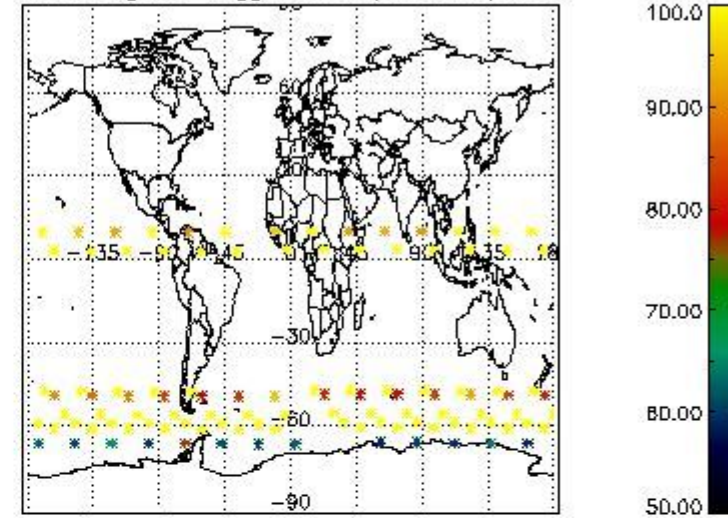


3.2 Plot quality information per product (world map)

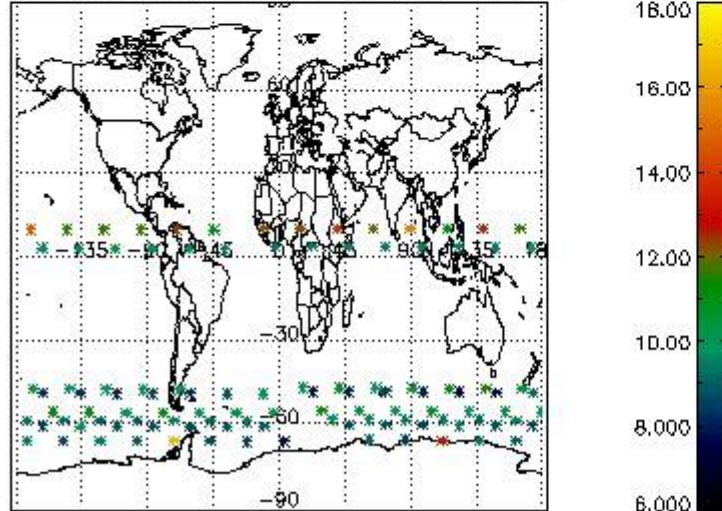
Percentage of flagged data per O3 profile



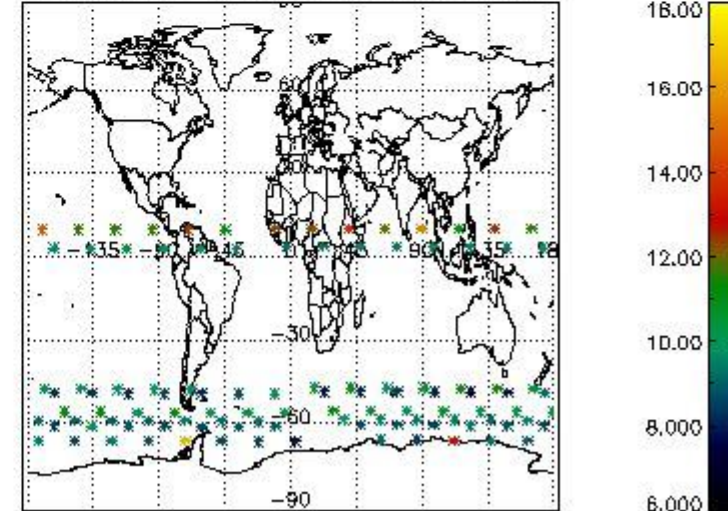
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

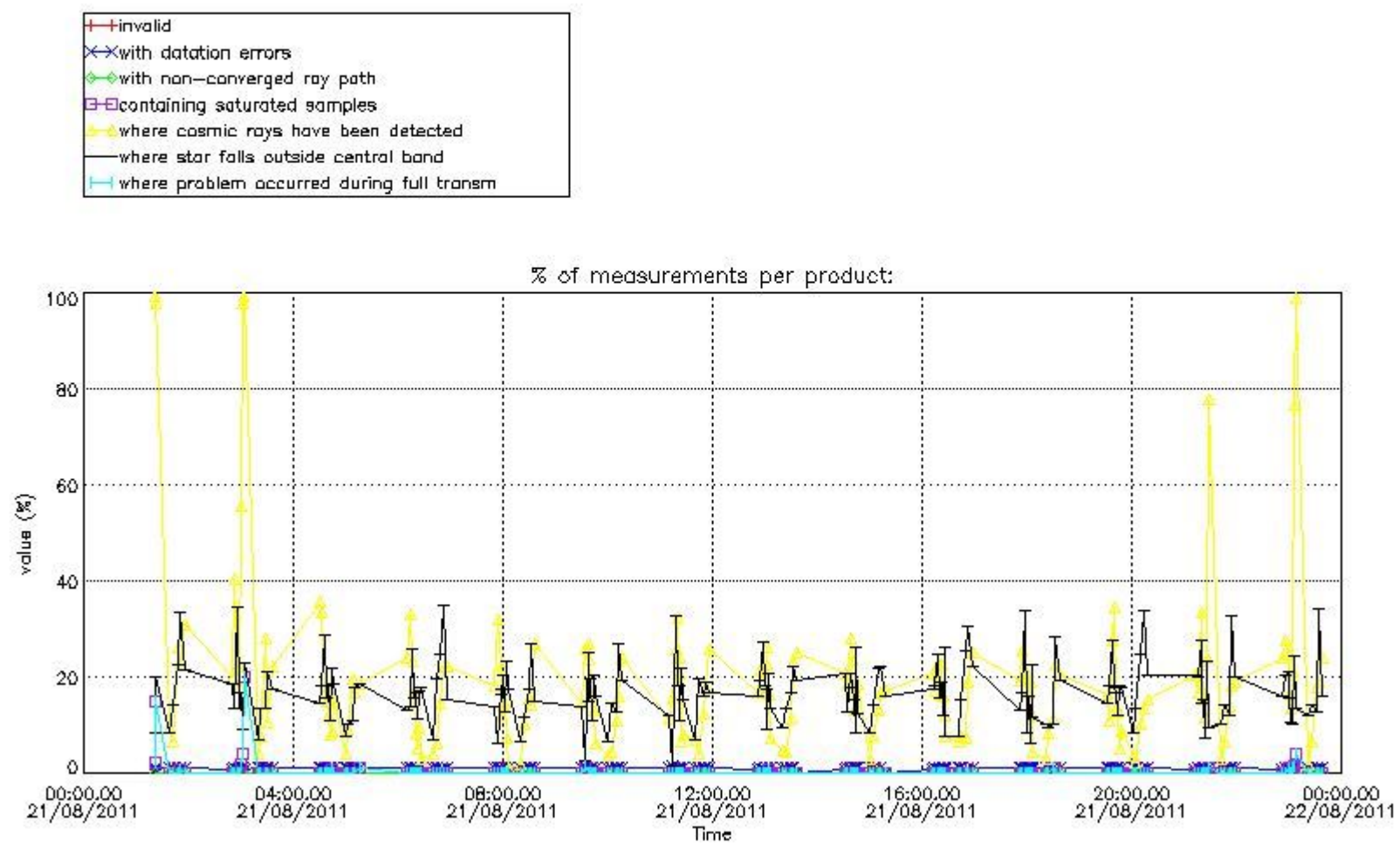


4. Level 1 quality information per product

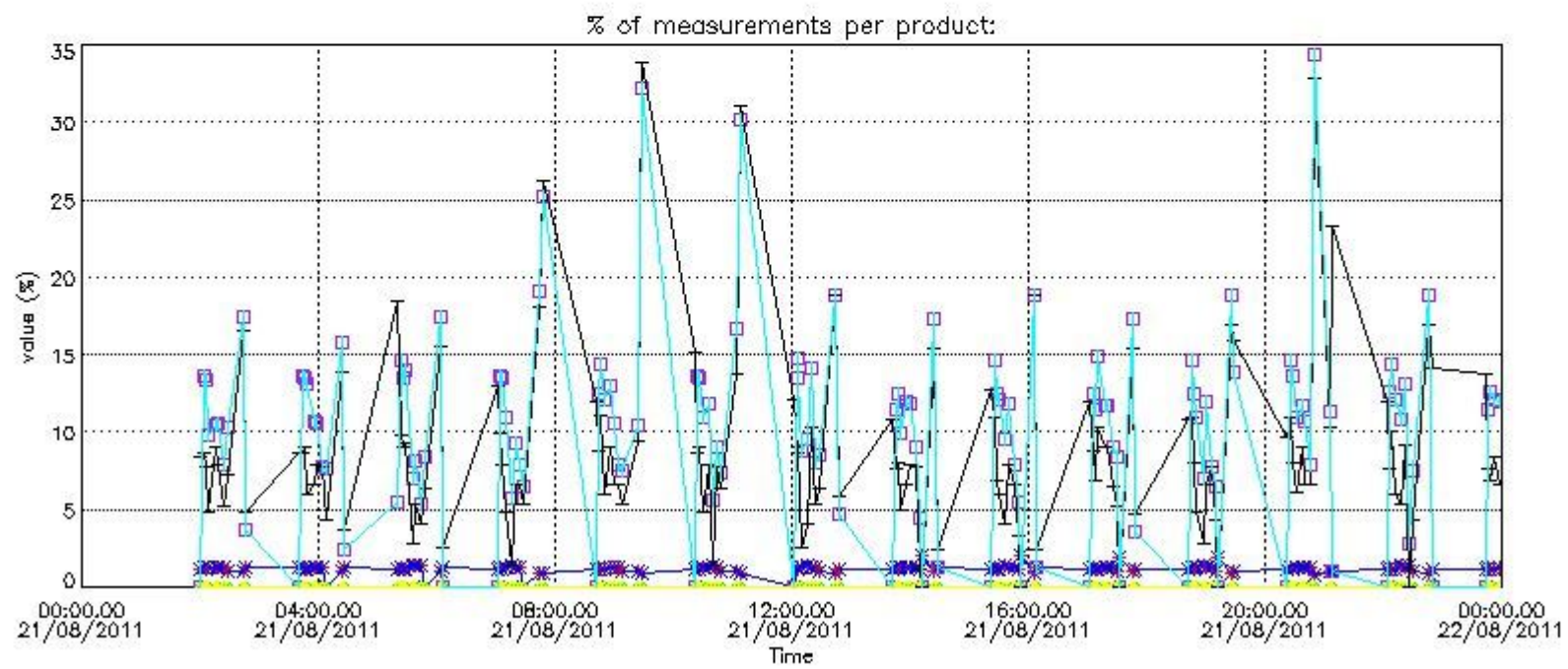
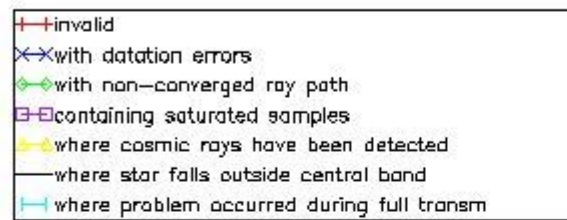
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



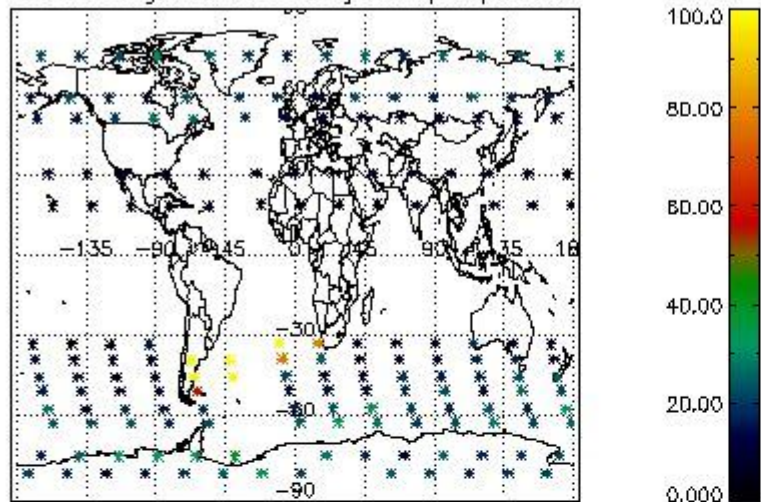
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



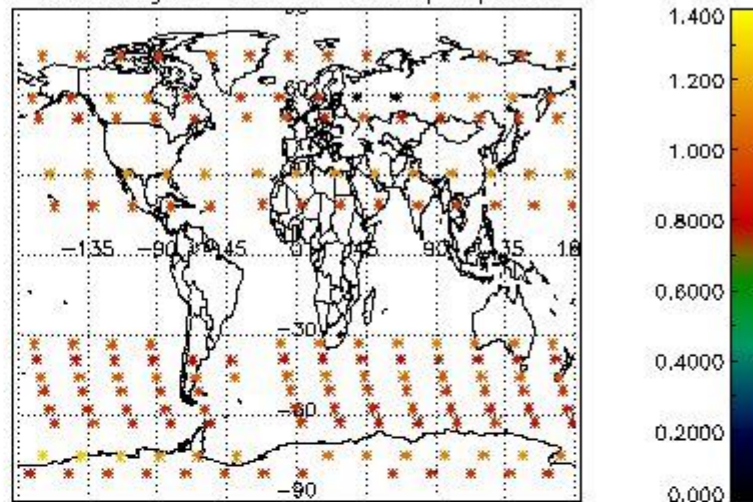
4.2 Plot quality information per product coming from level 1b processing (world map)

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

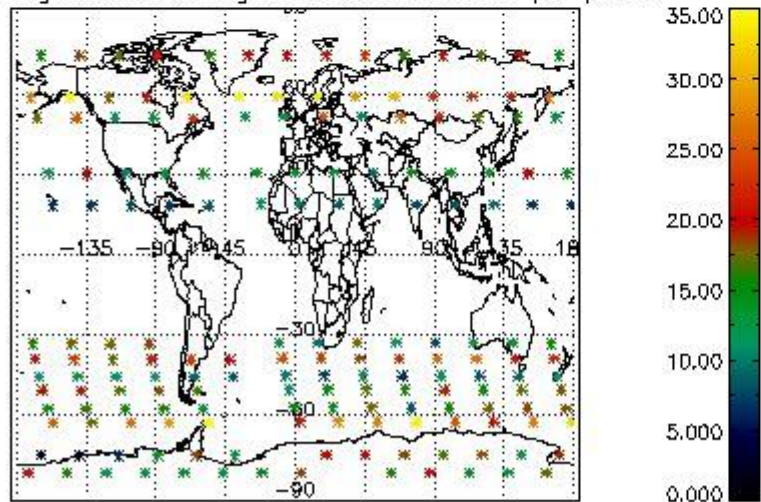
Percentage of cosmic ray hits per profile



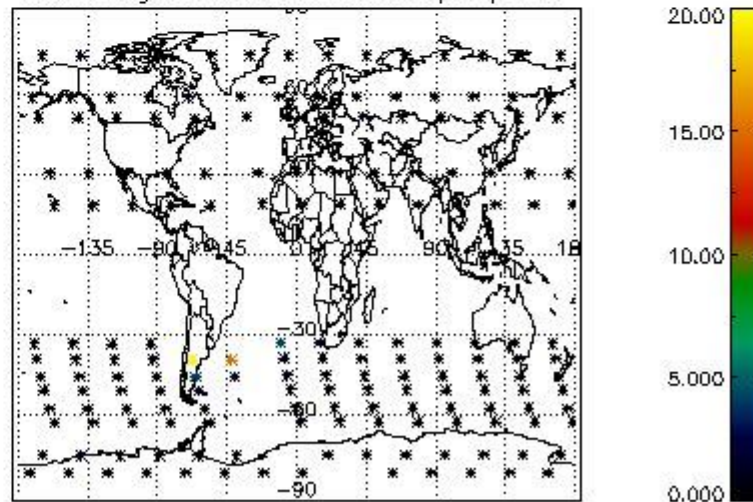
Percentage of datation errors per profile



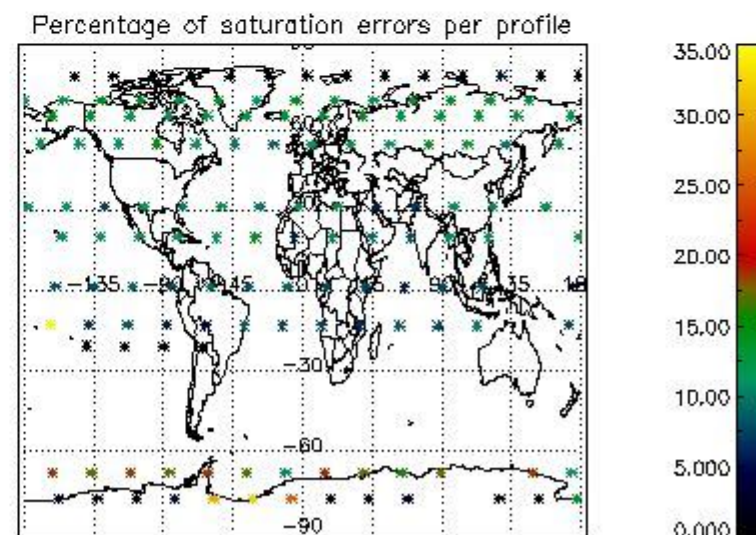
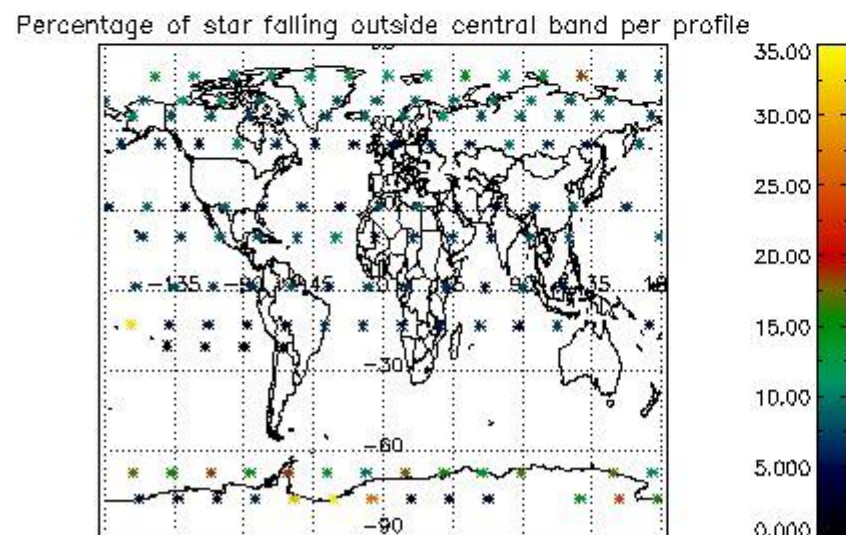
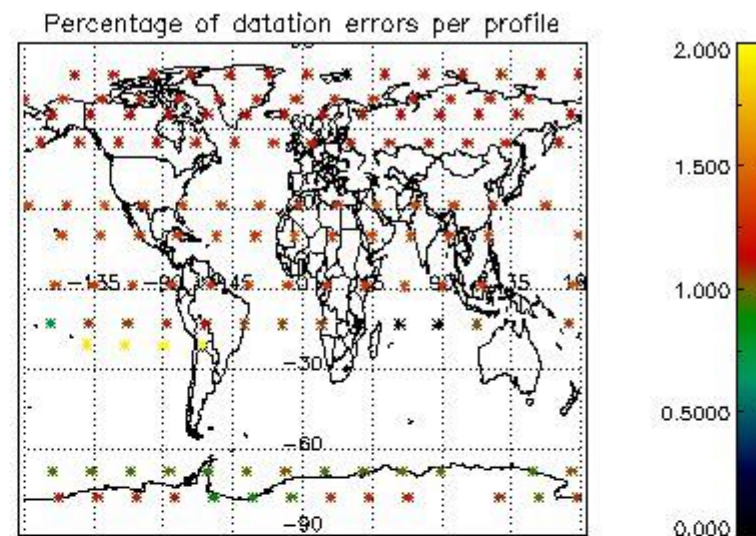
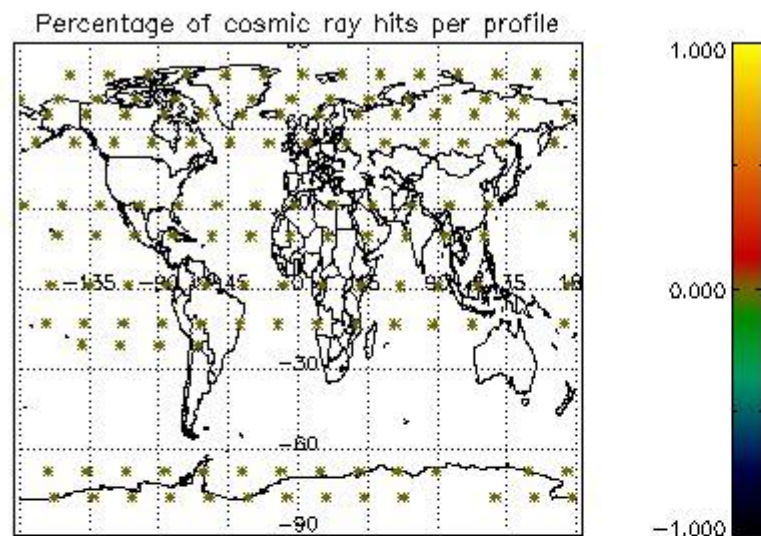
Percentage of star falling outside central band per profile



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

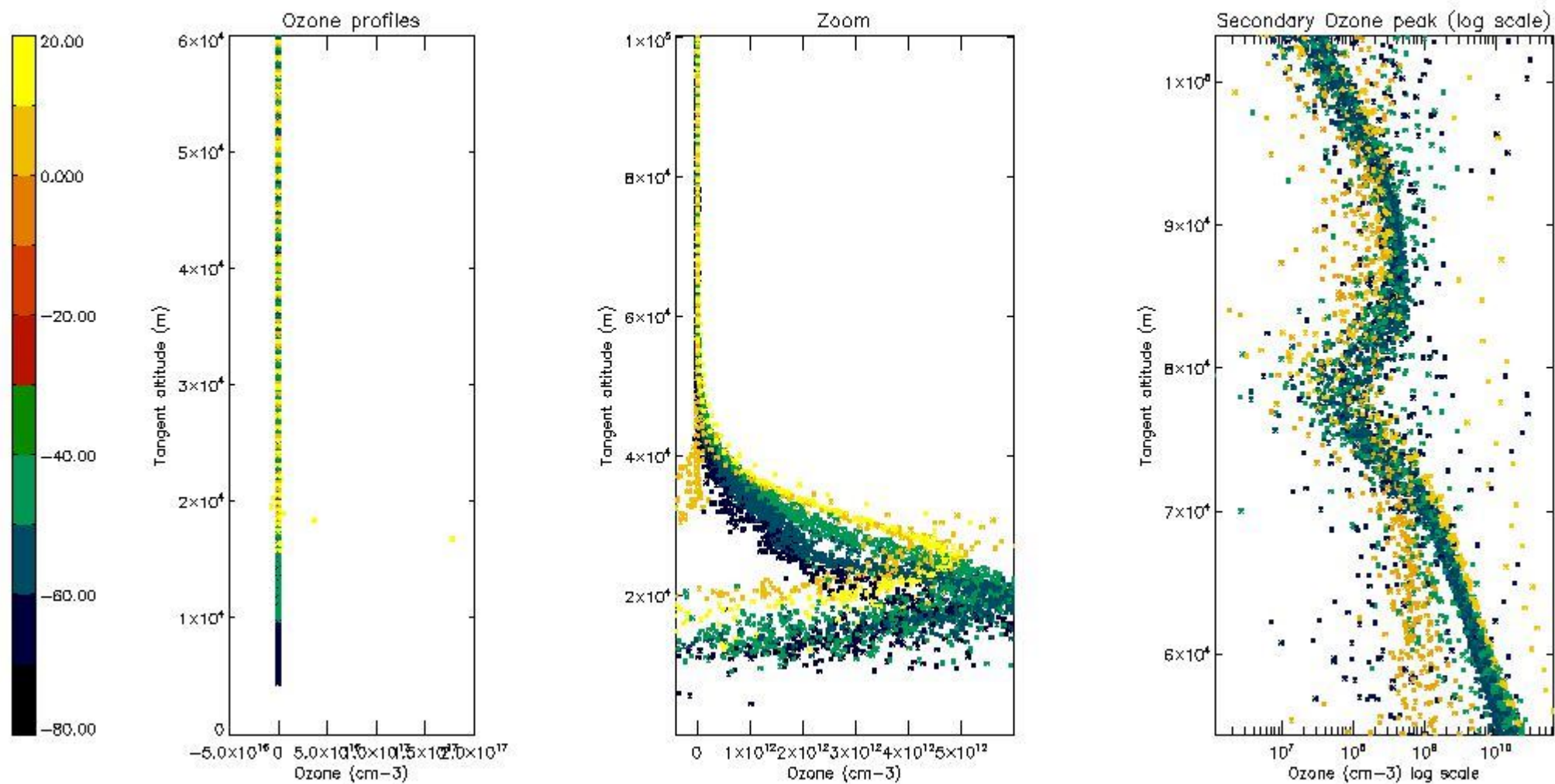
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	39
STD < 20	22

STD < 10	18
STD < 5	13

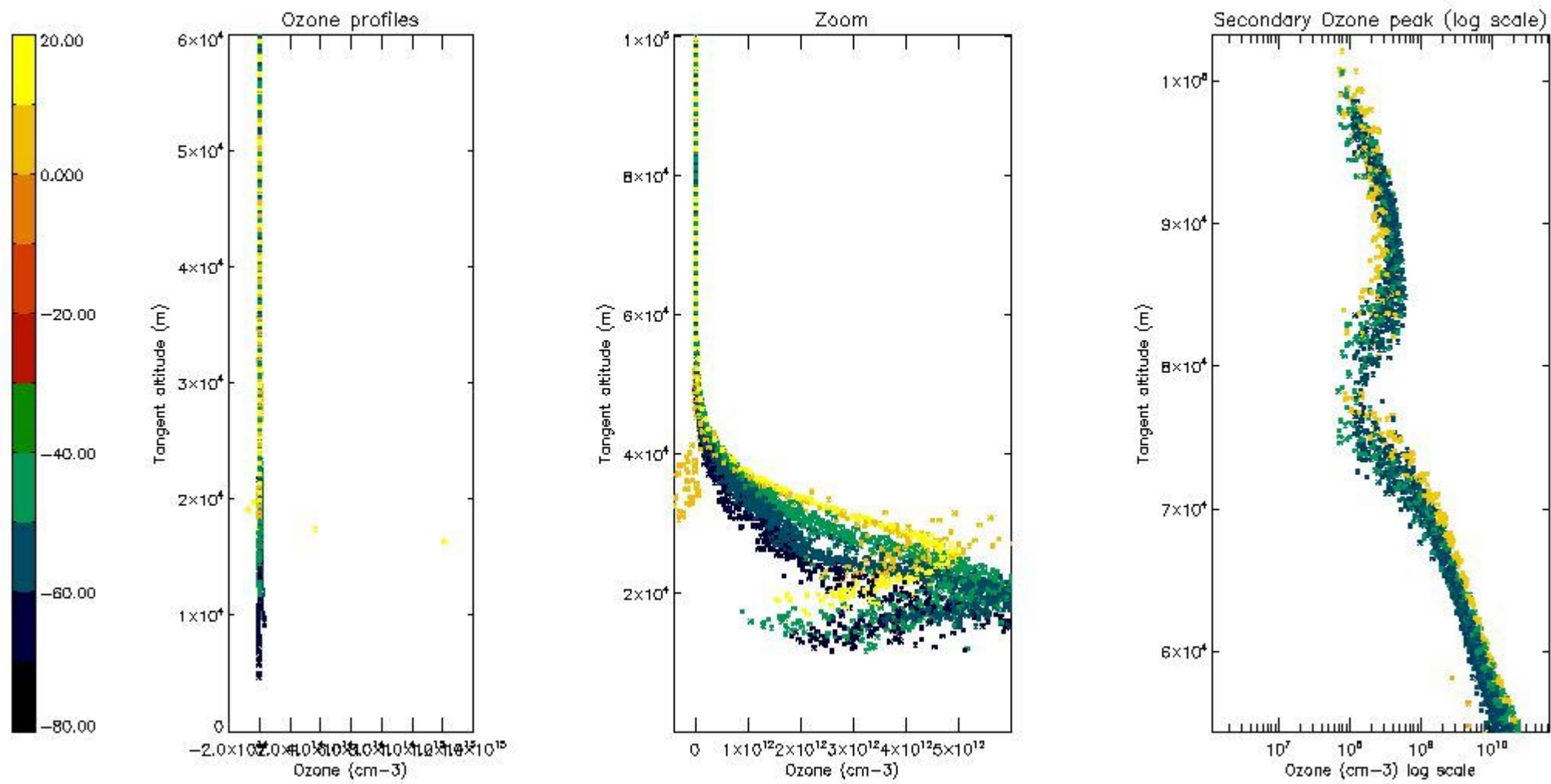
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



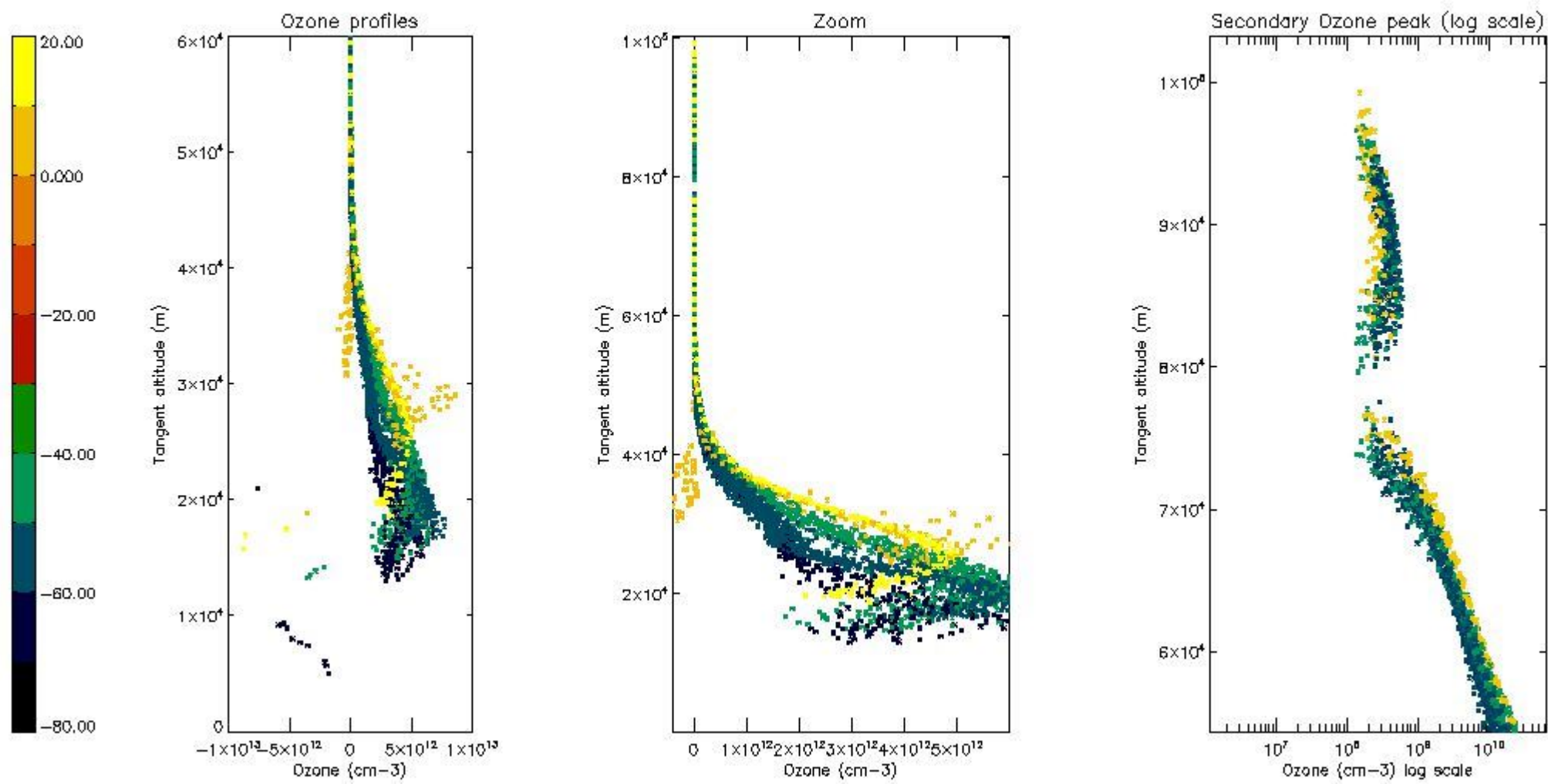
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



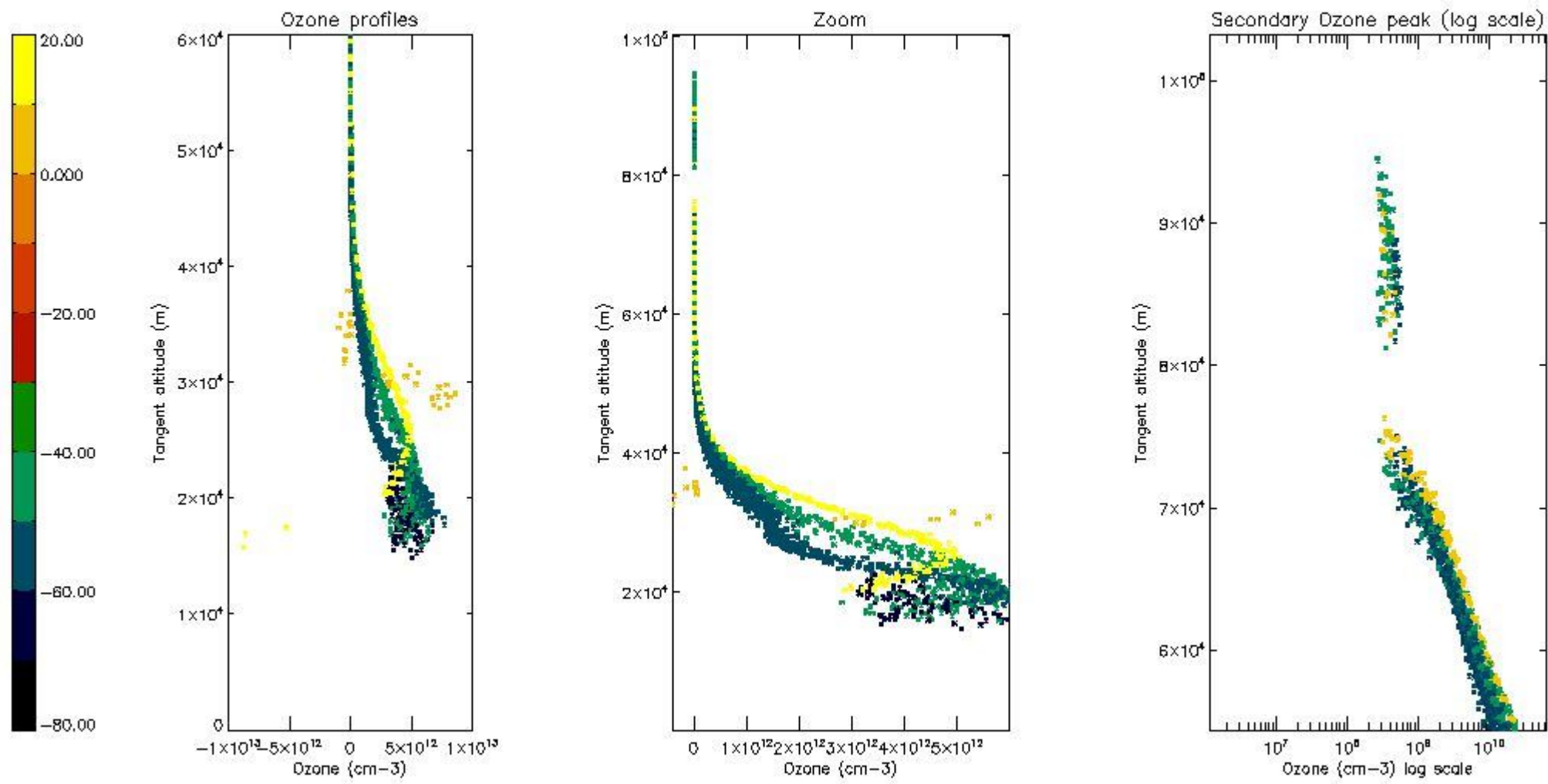
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



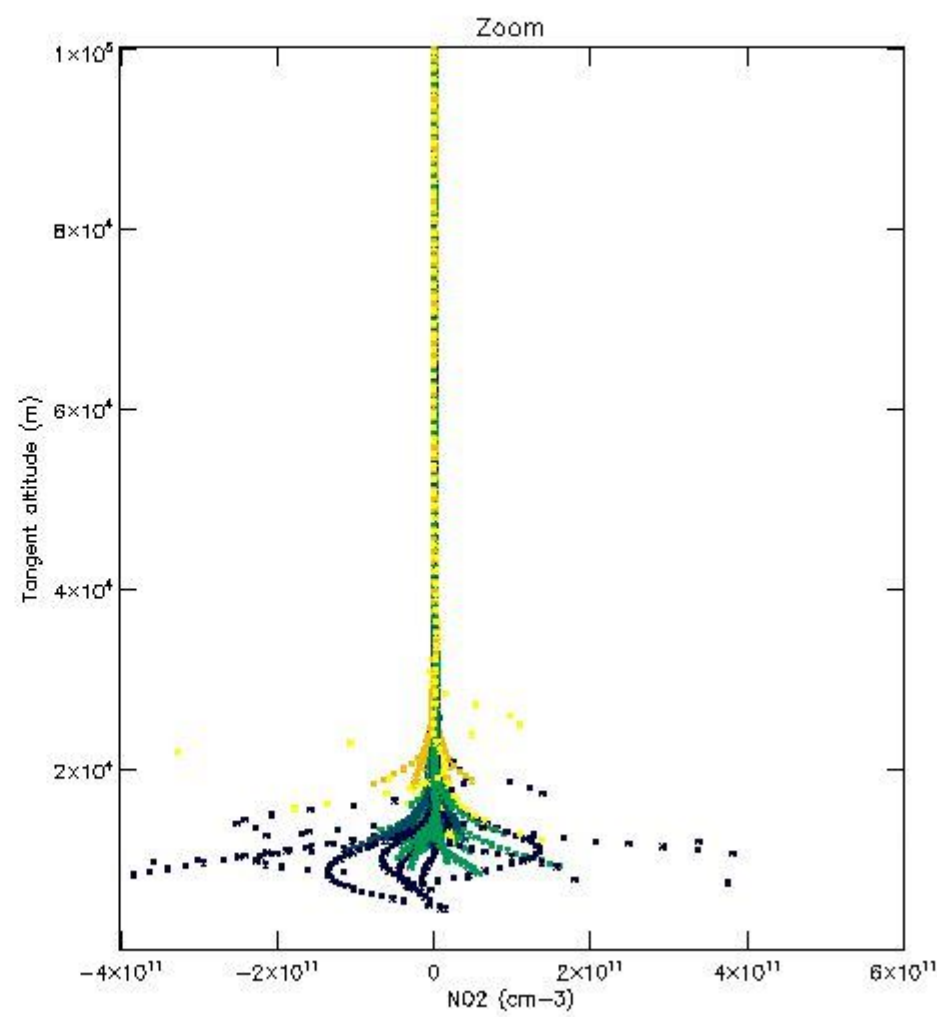
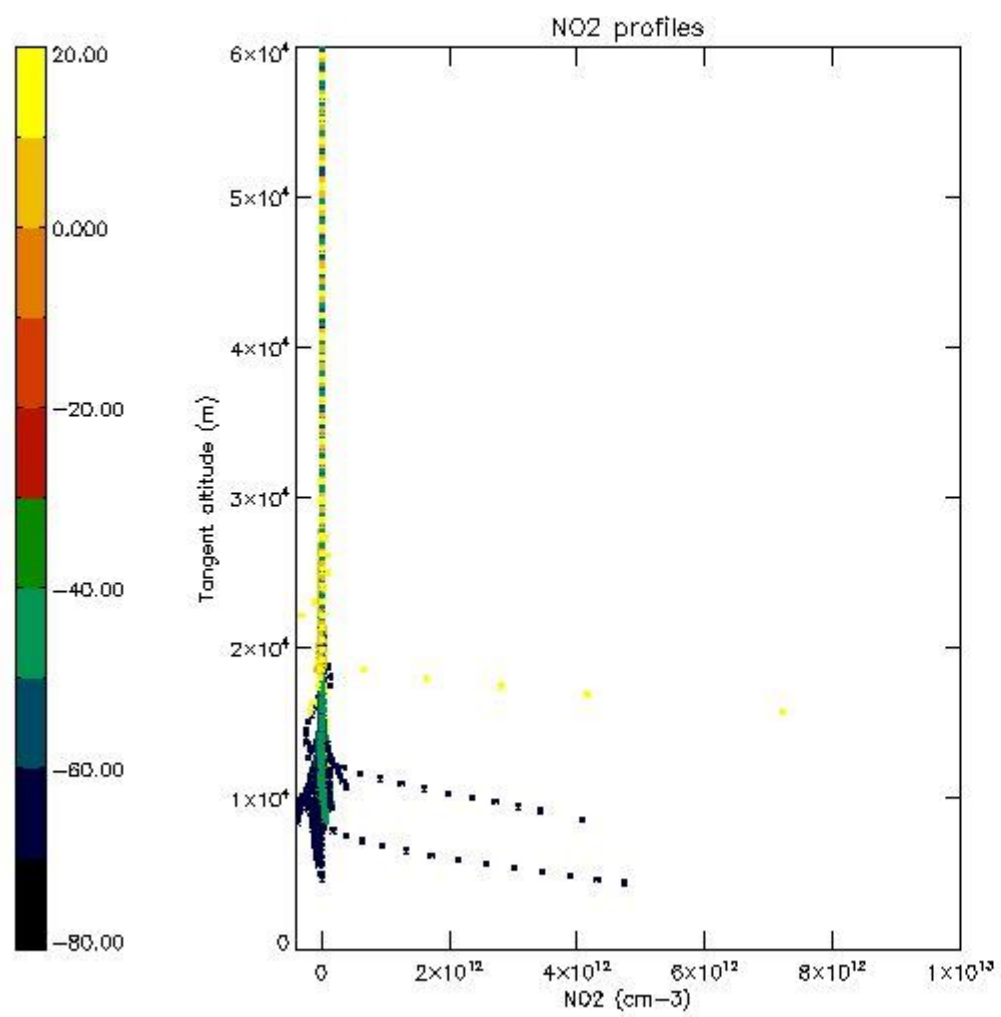
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



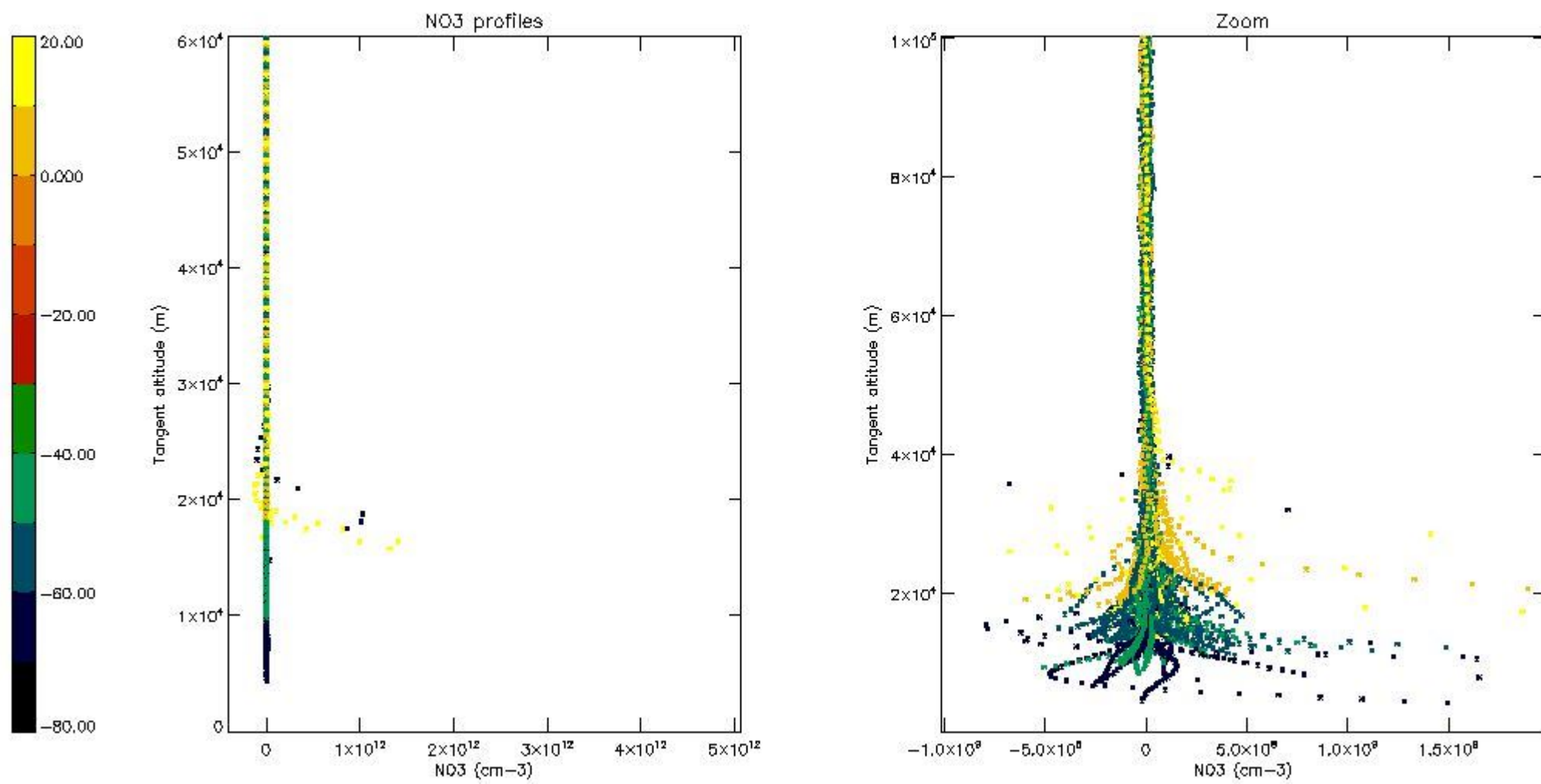
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



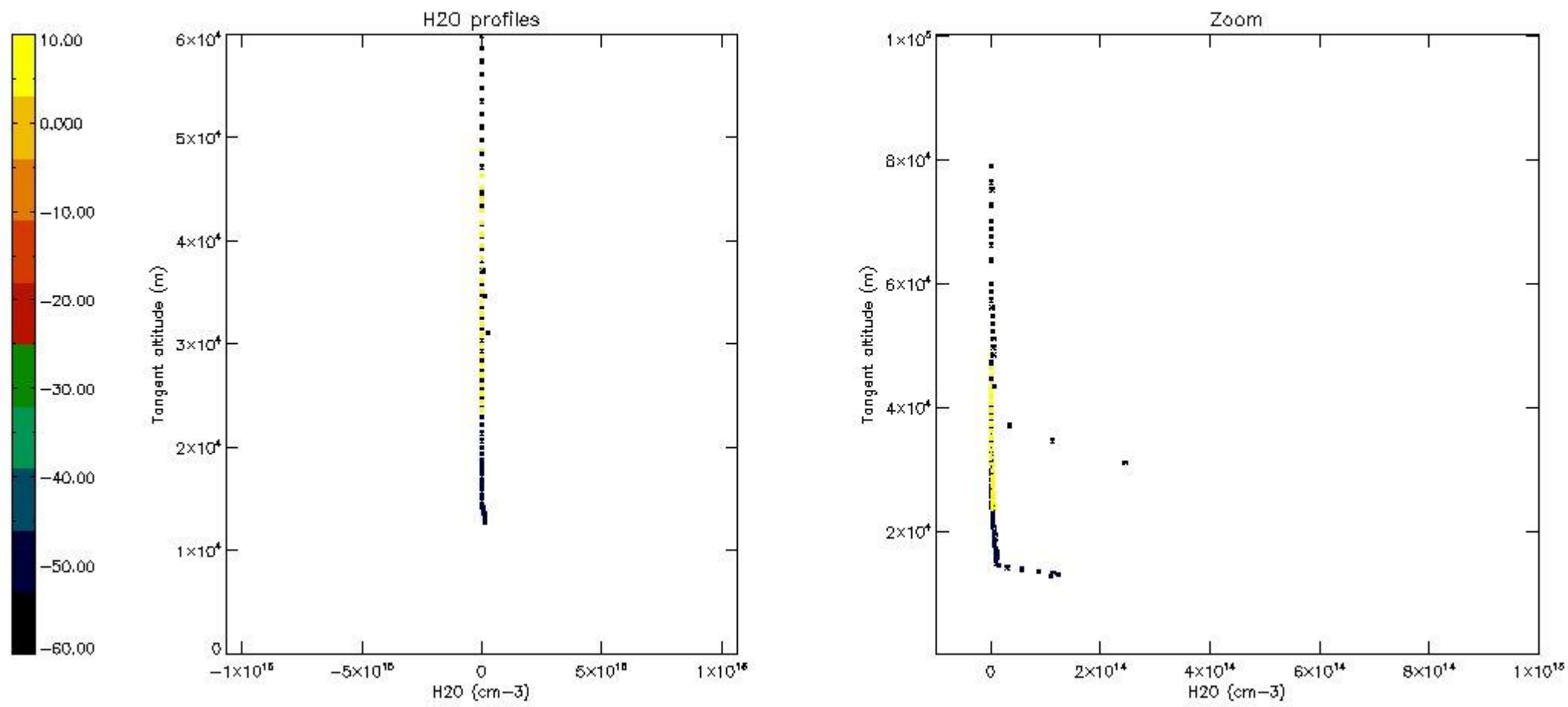
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

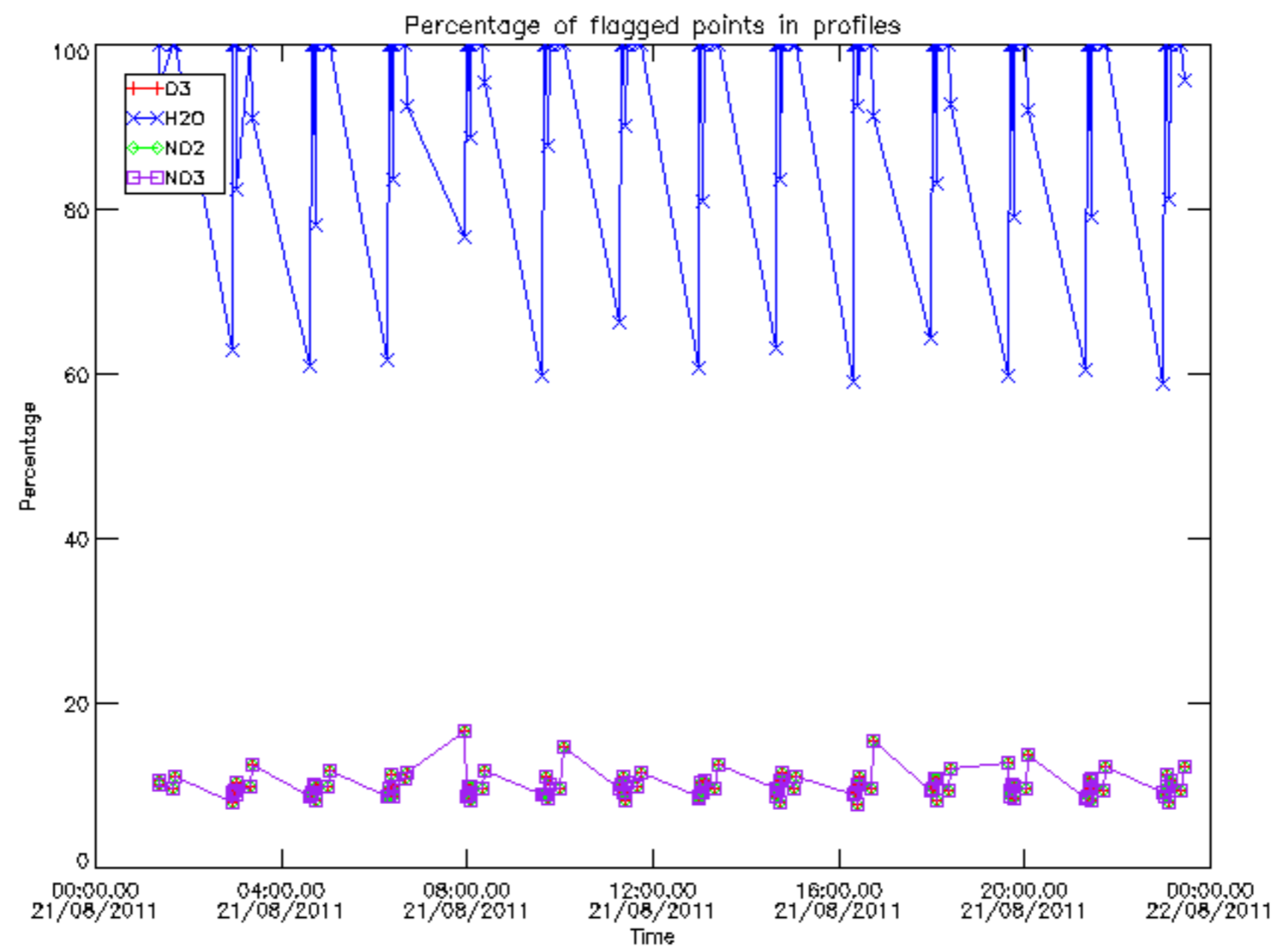
The colorbar represents the latitude.



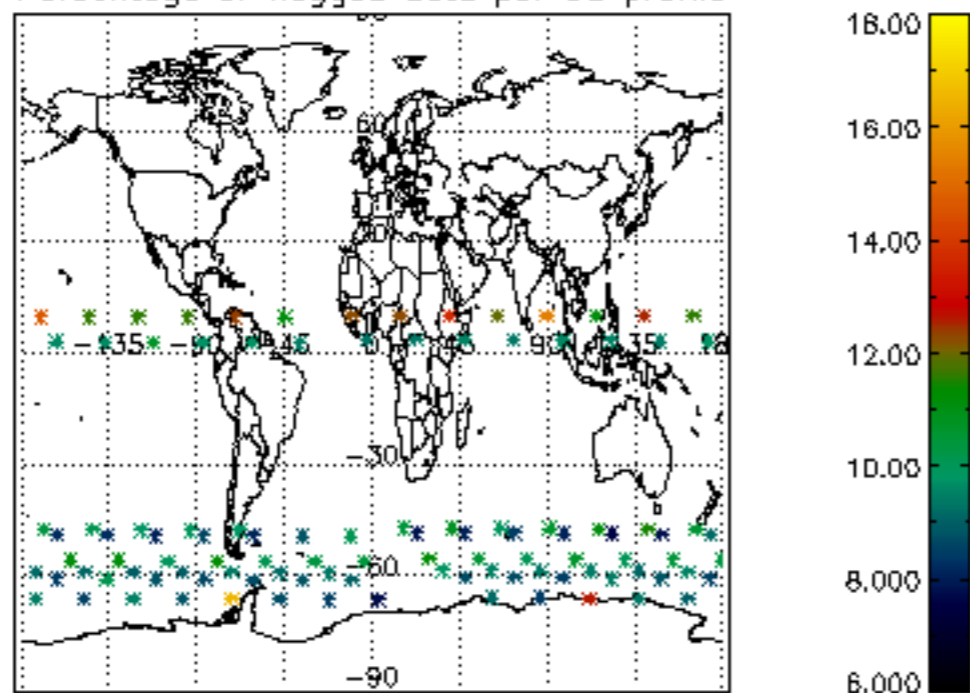
6. Auxiliary Data Files used for the production reported in section 2

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.

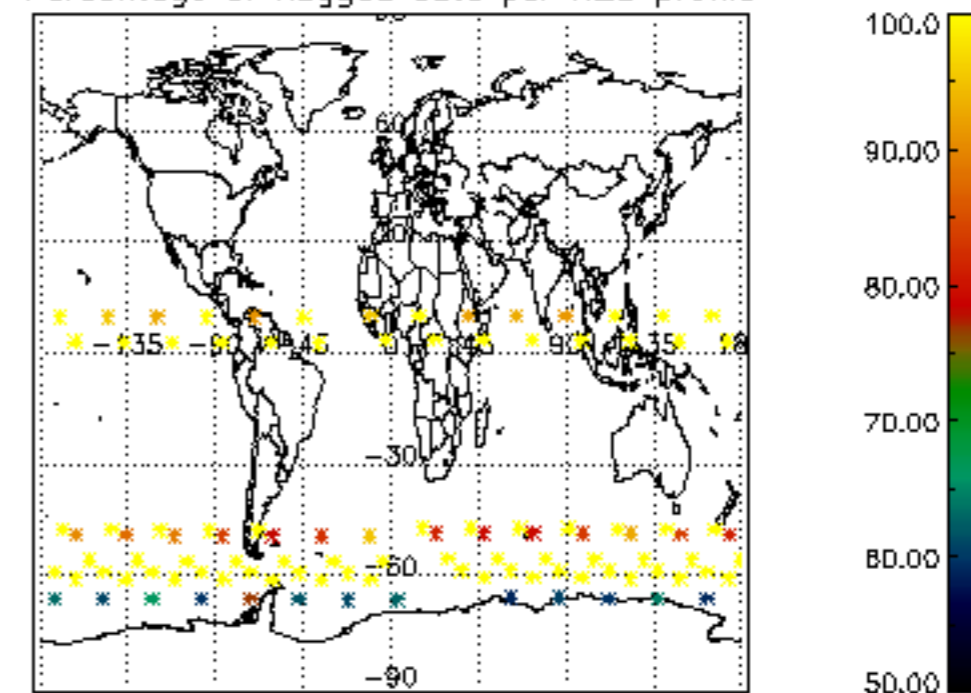
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	21-AUG-2011 01:21:01
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-AUG-2011 01:21:01
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-AUG-2011 01:21:01



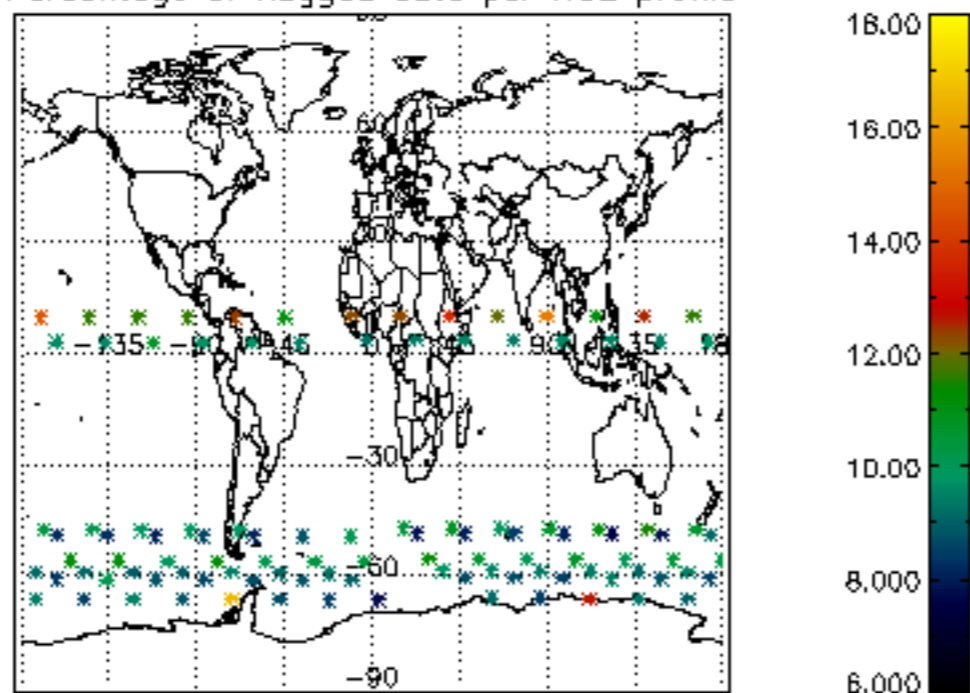
Percentage of flagged data per D3 profile



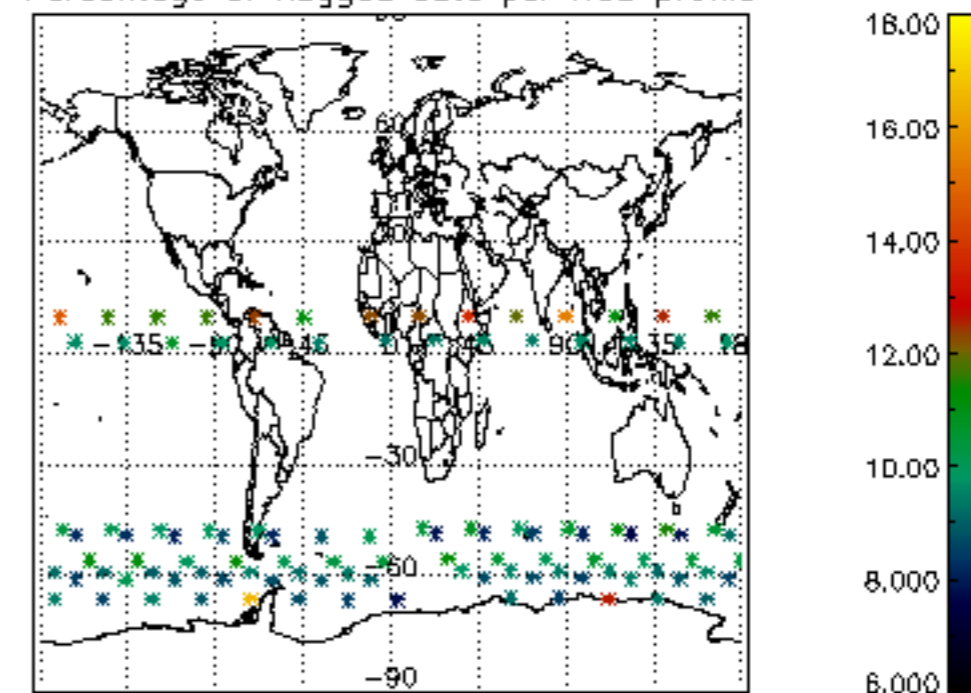
Percentage of flagged data per H2O profile

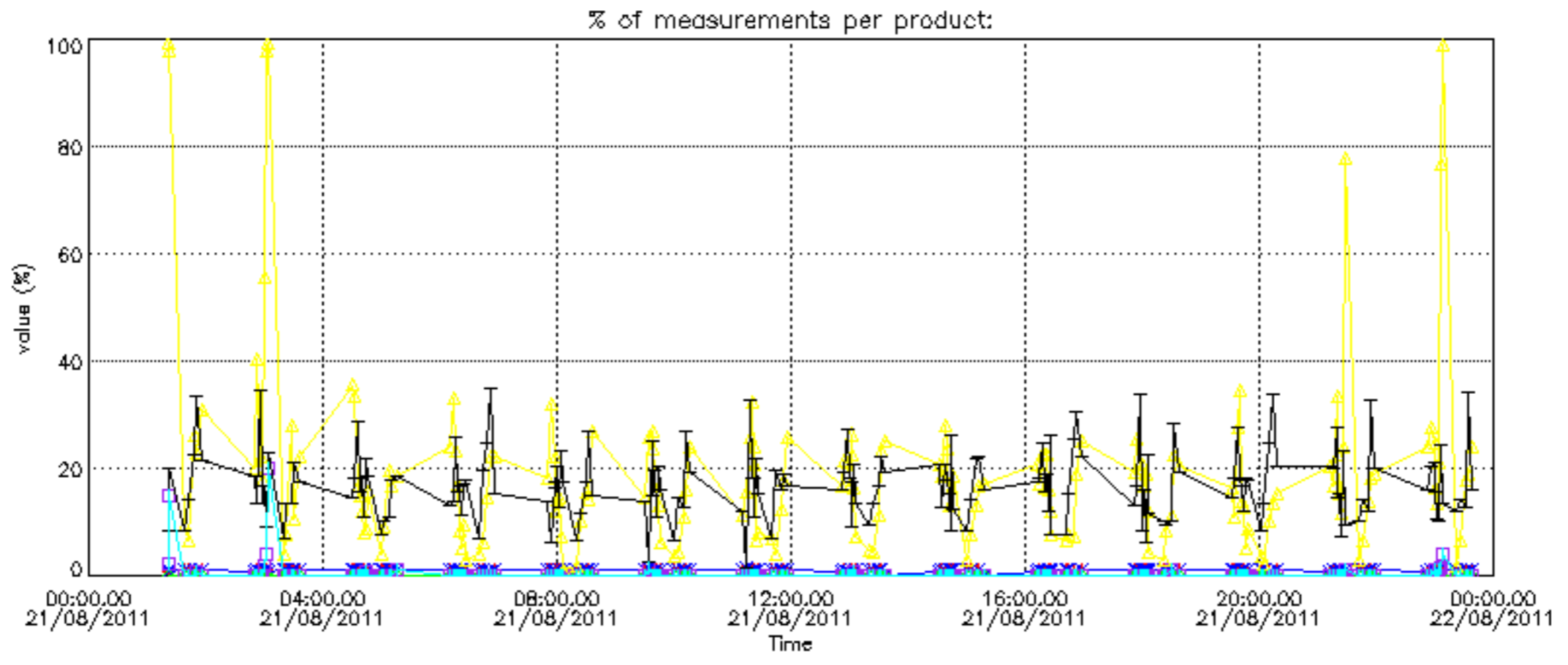


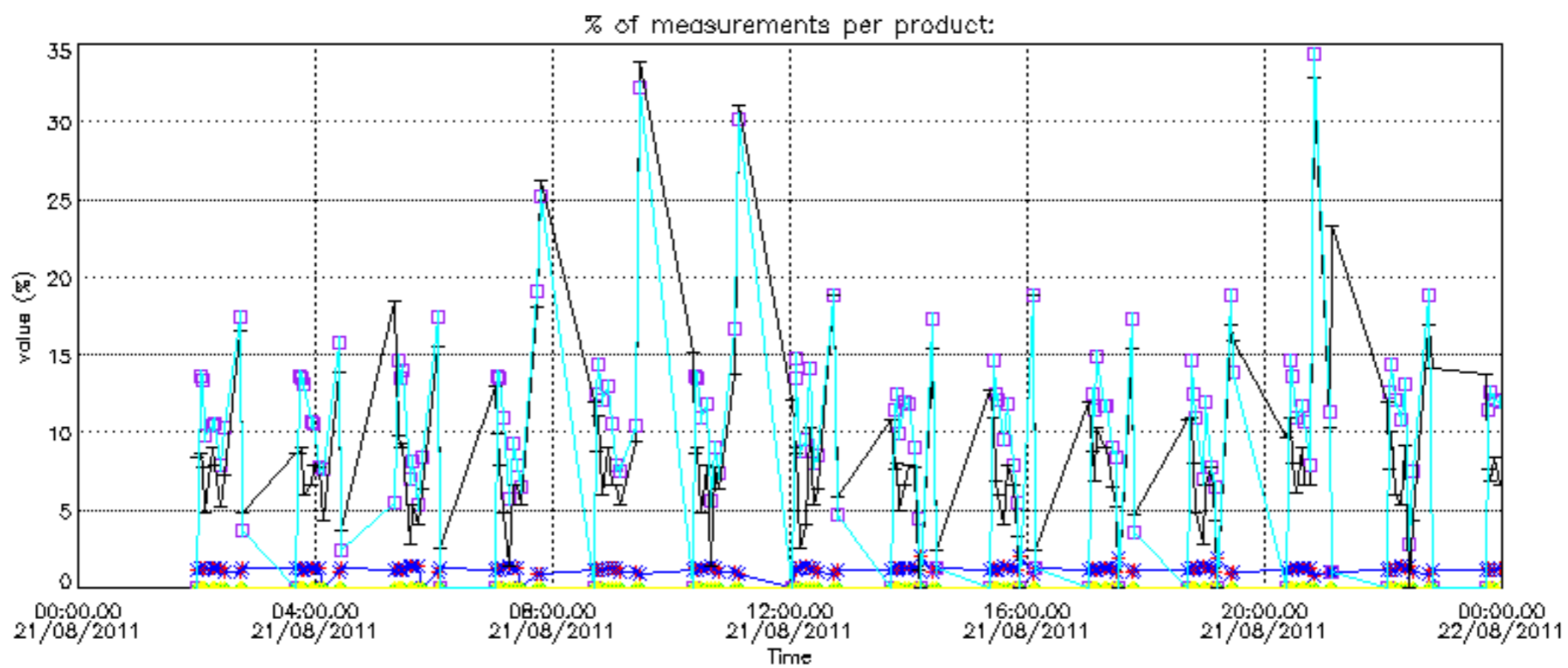
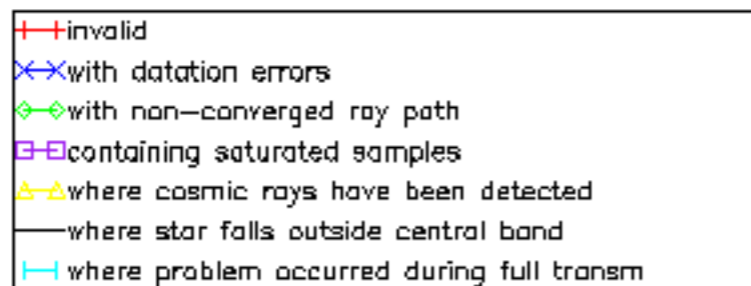
Percentage of flagged data per NO2 profile



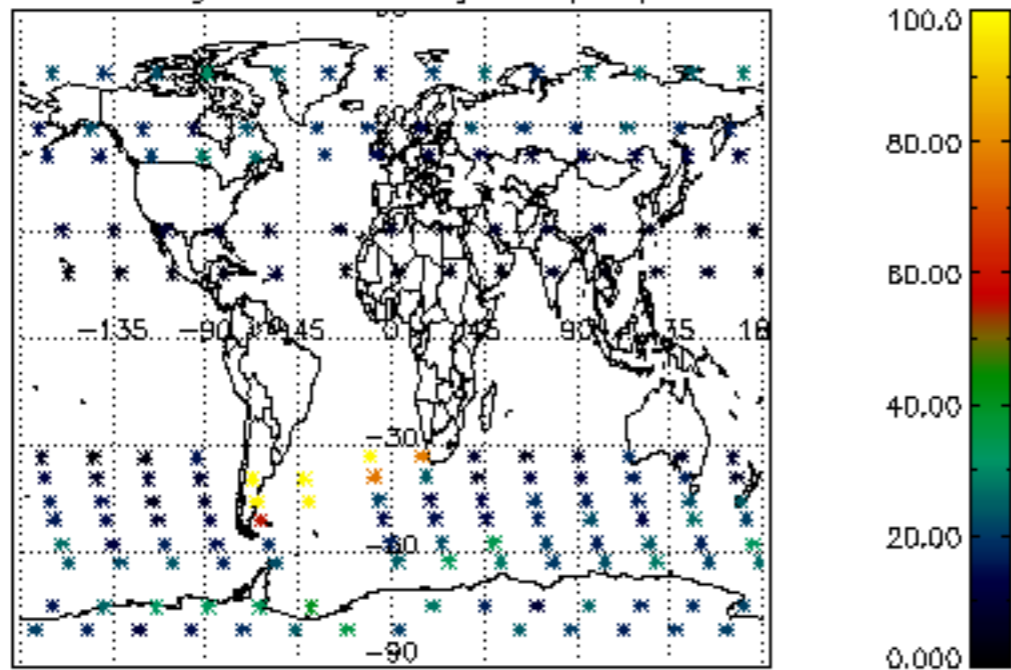
Percentage of flagged data per NO3 profile



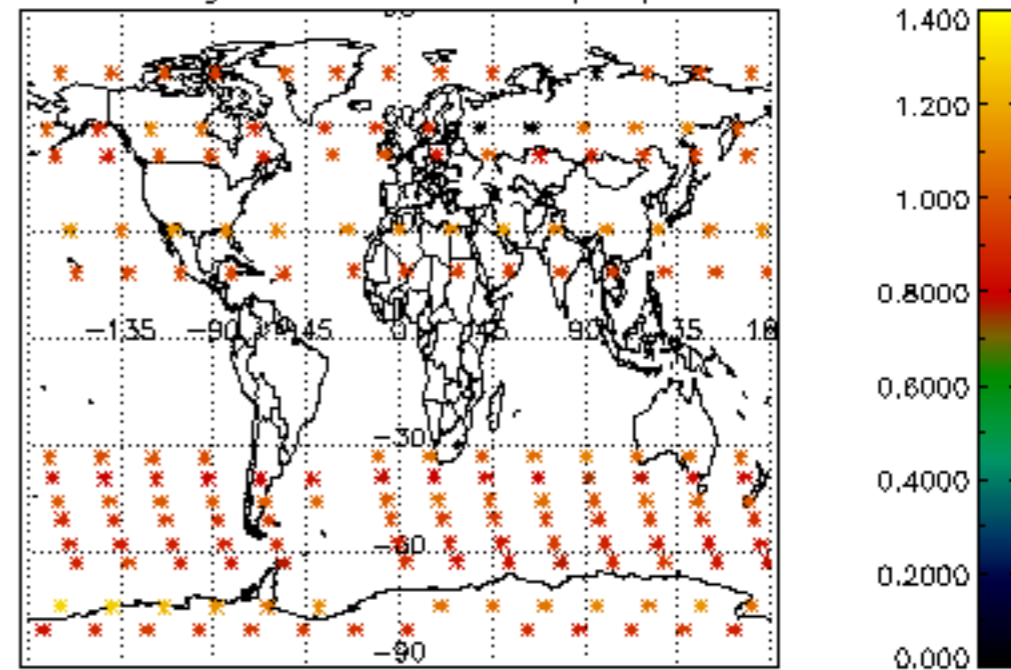




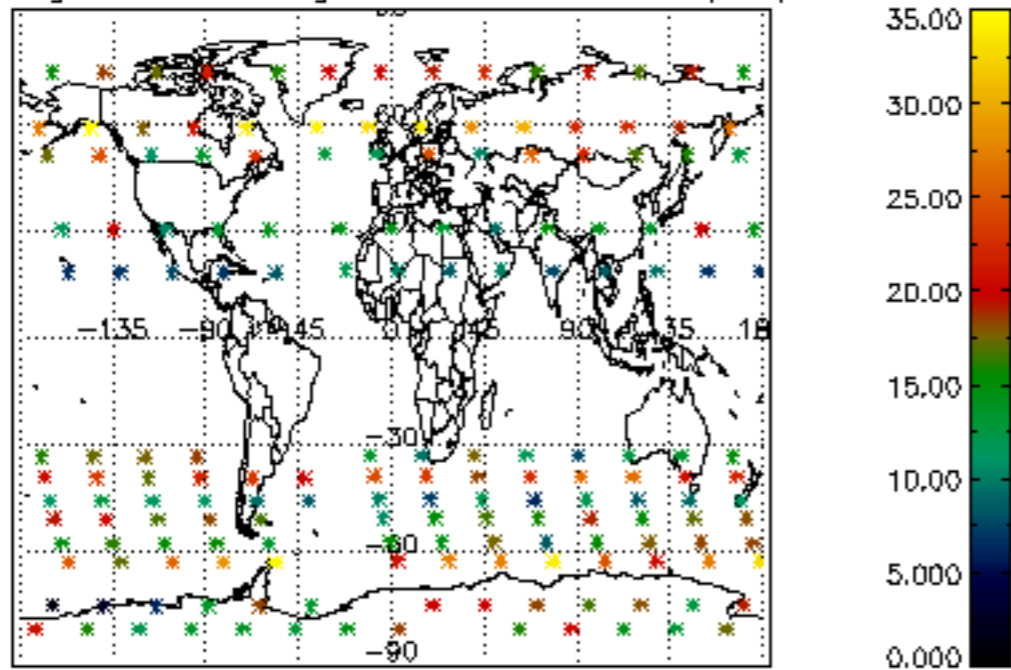
Percentage of cosmic ray hits per profile



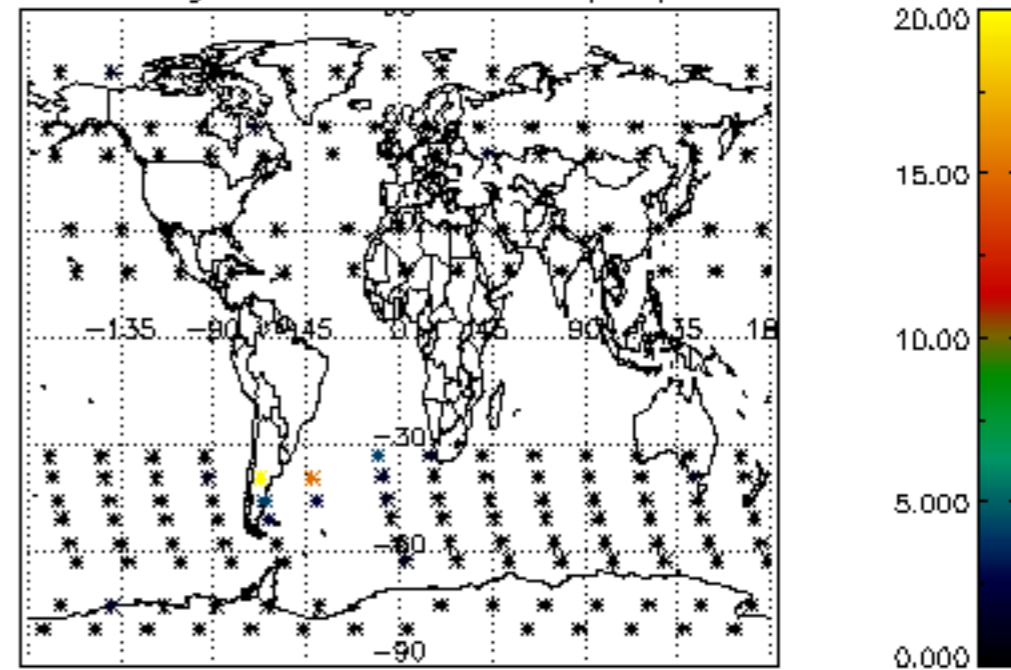
Percentage of datation errors per profile



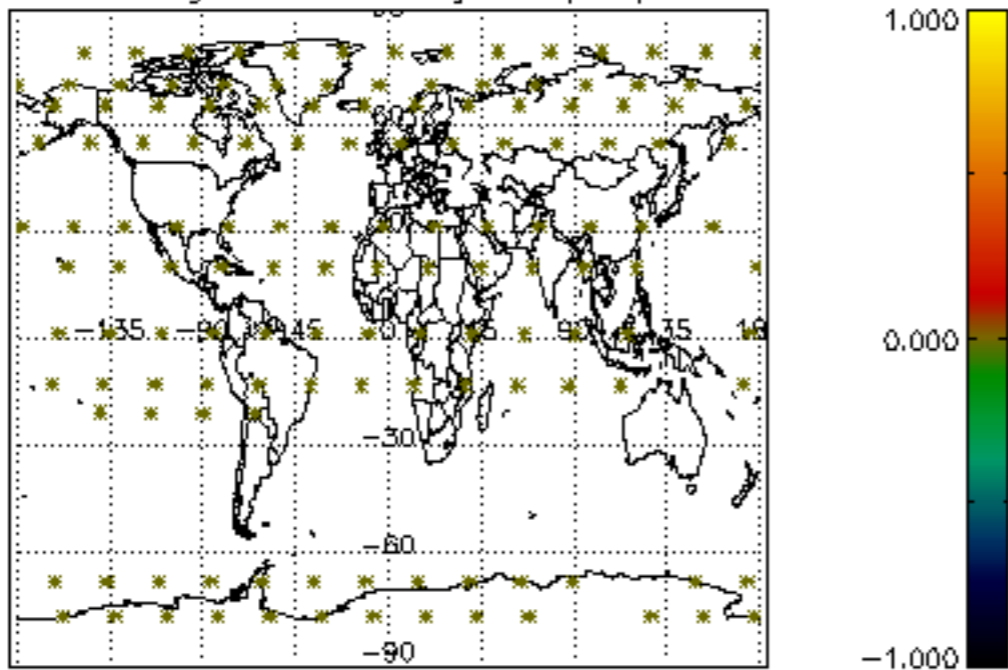
Percentage of star falling outside central band per profile



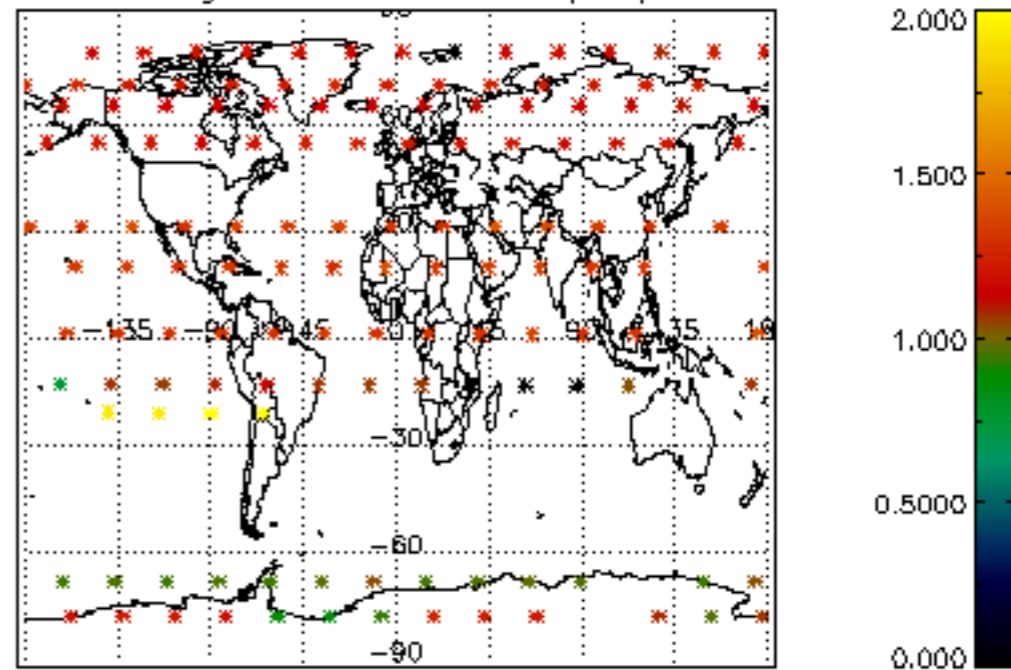
Percentage of saturation errors per profile



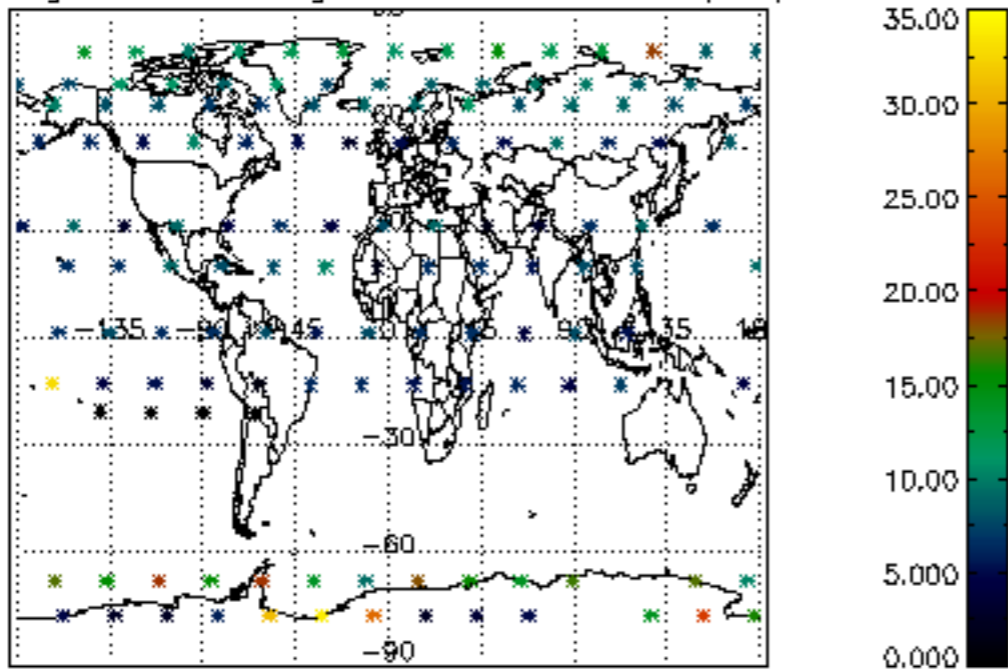
Percentage of cosmic ray hits per profile



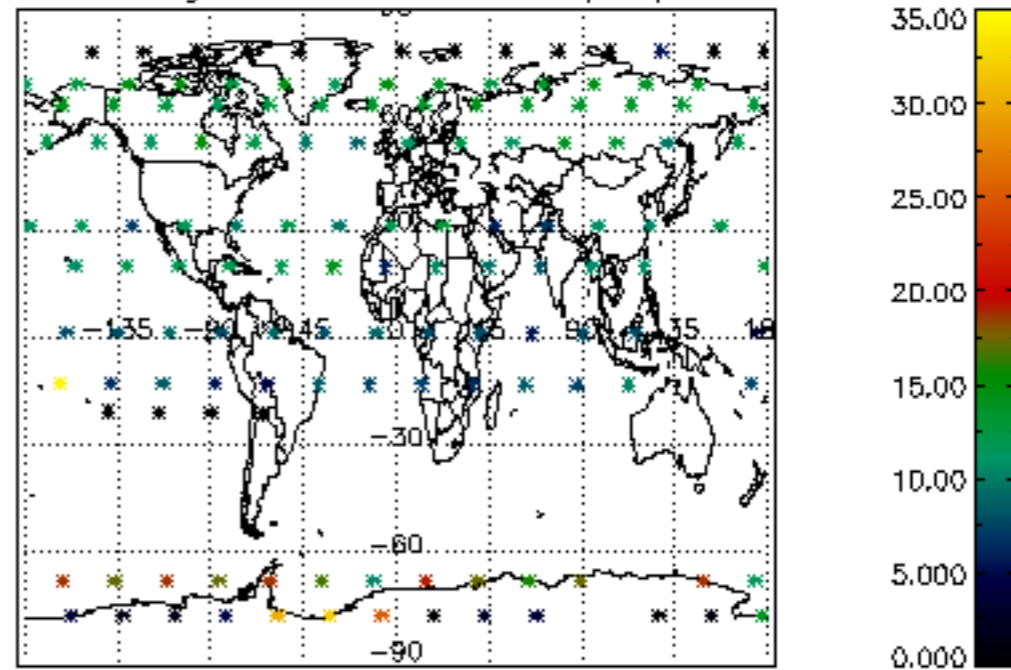
Percentage of datation errors per profile

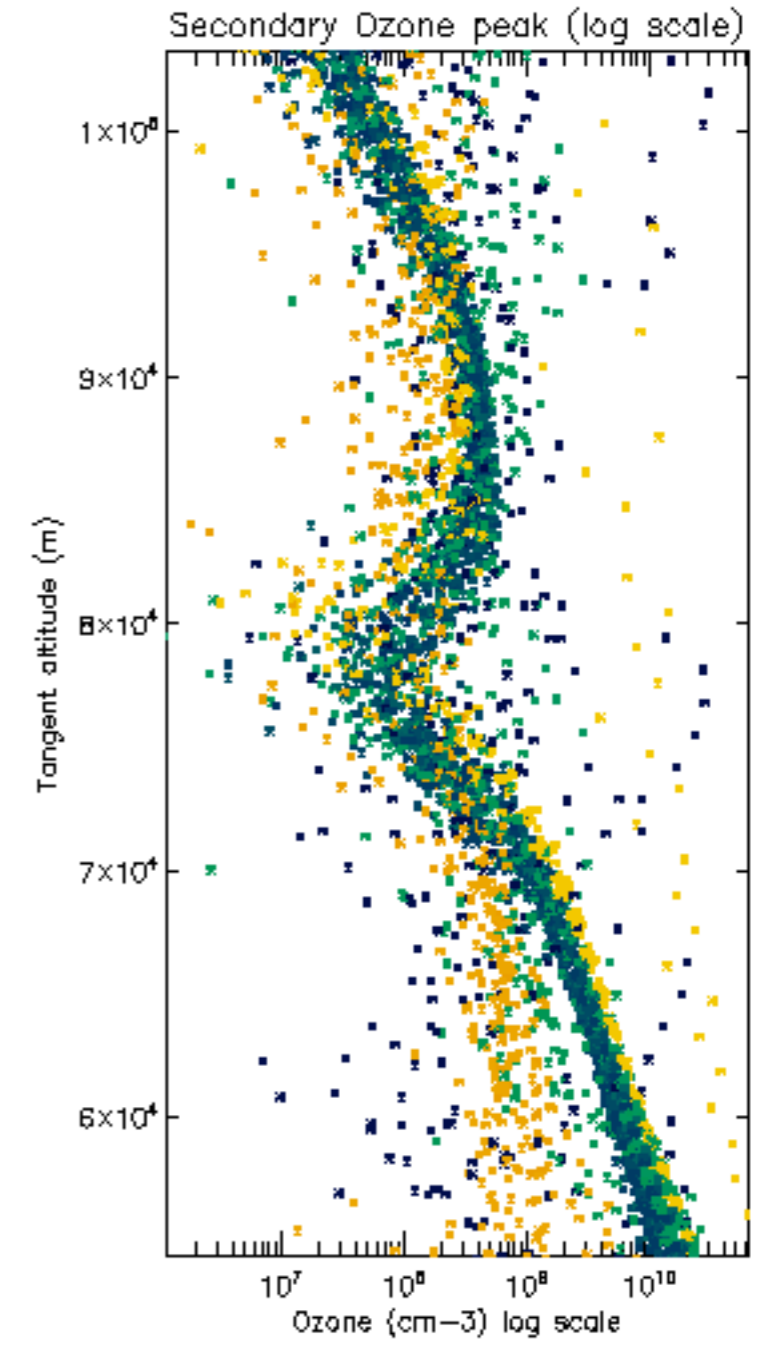
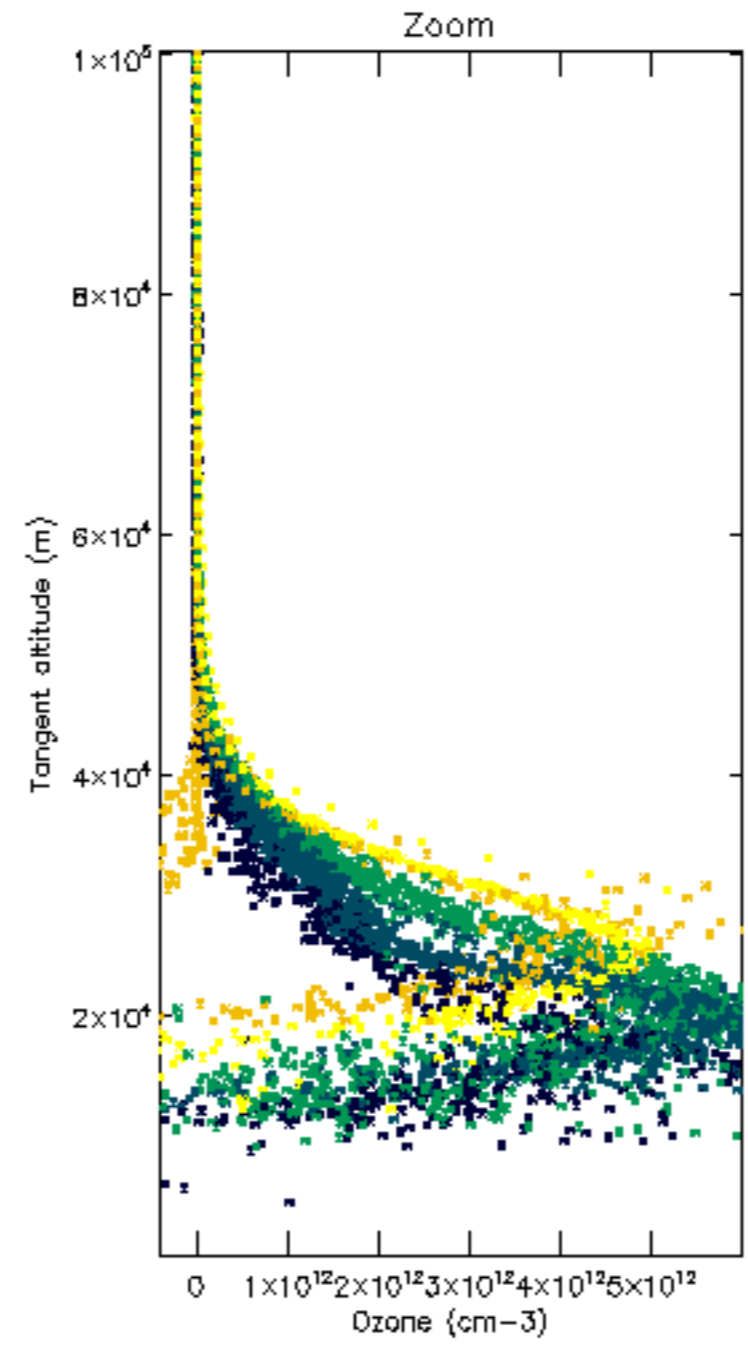
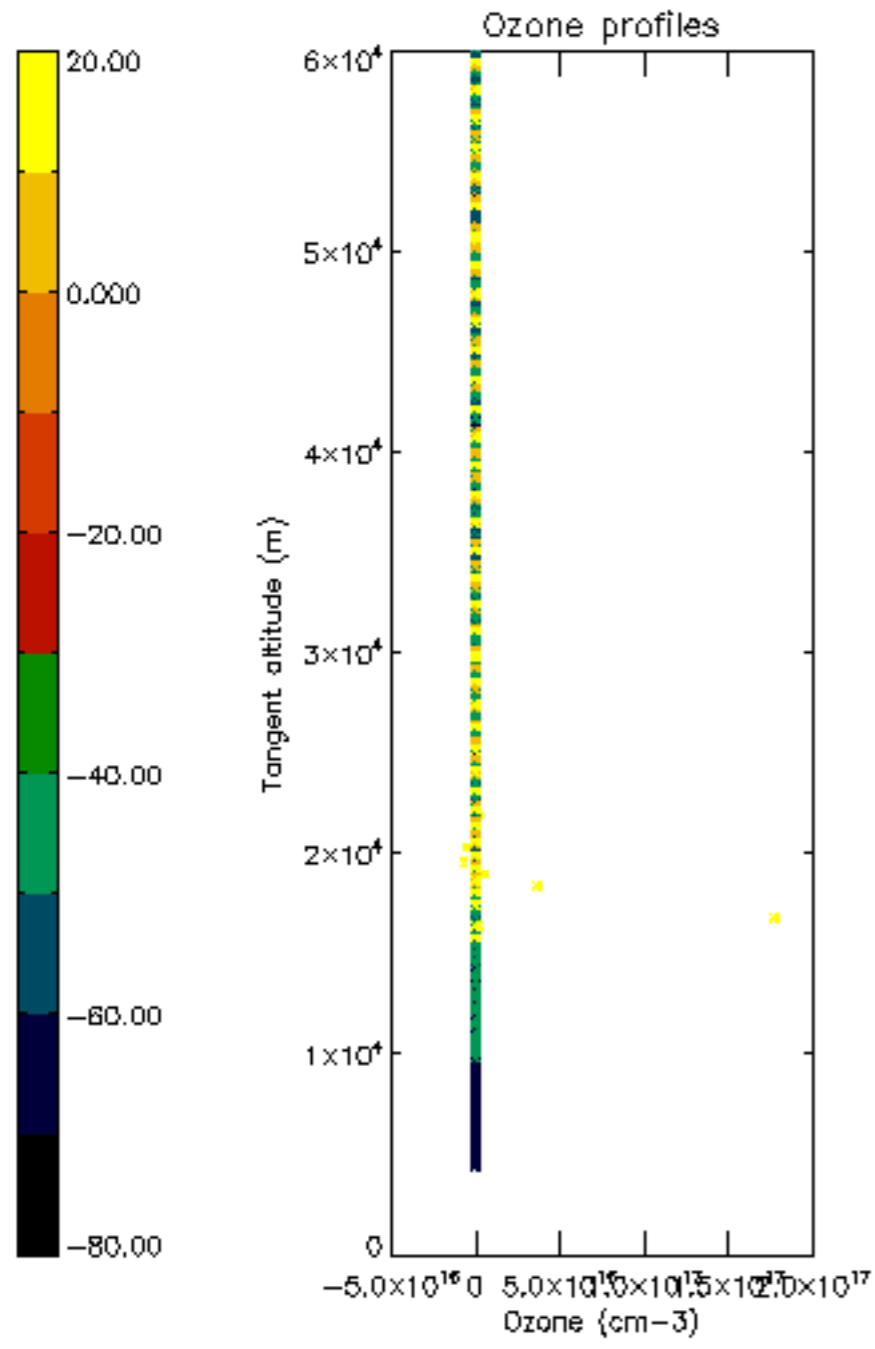


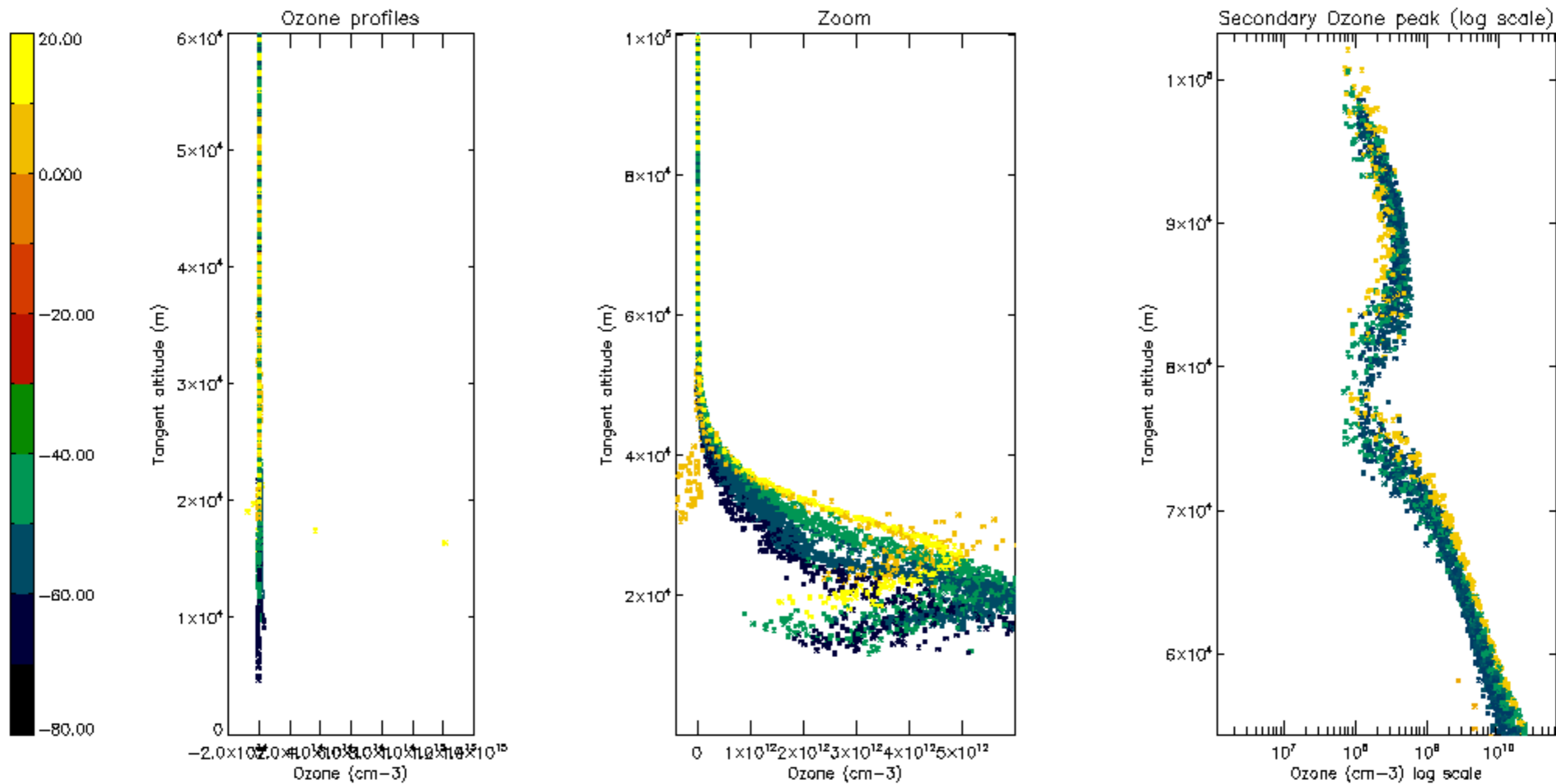
Percentage of star falling outside central band per profile

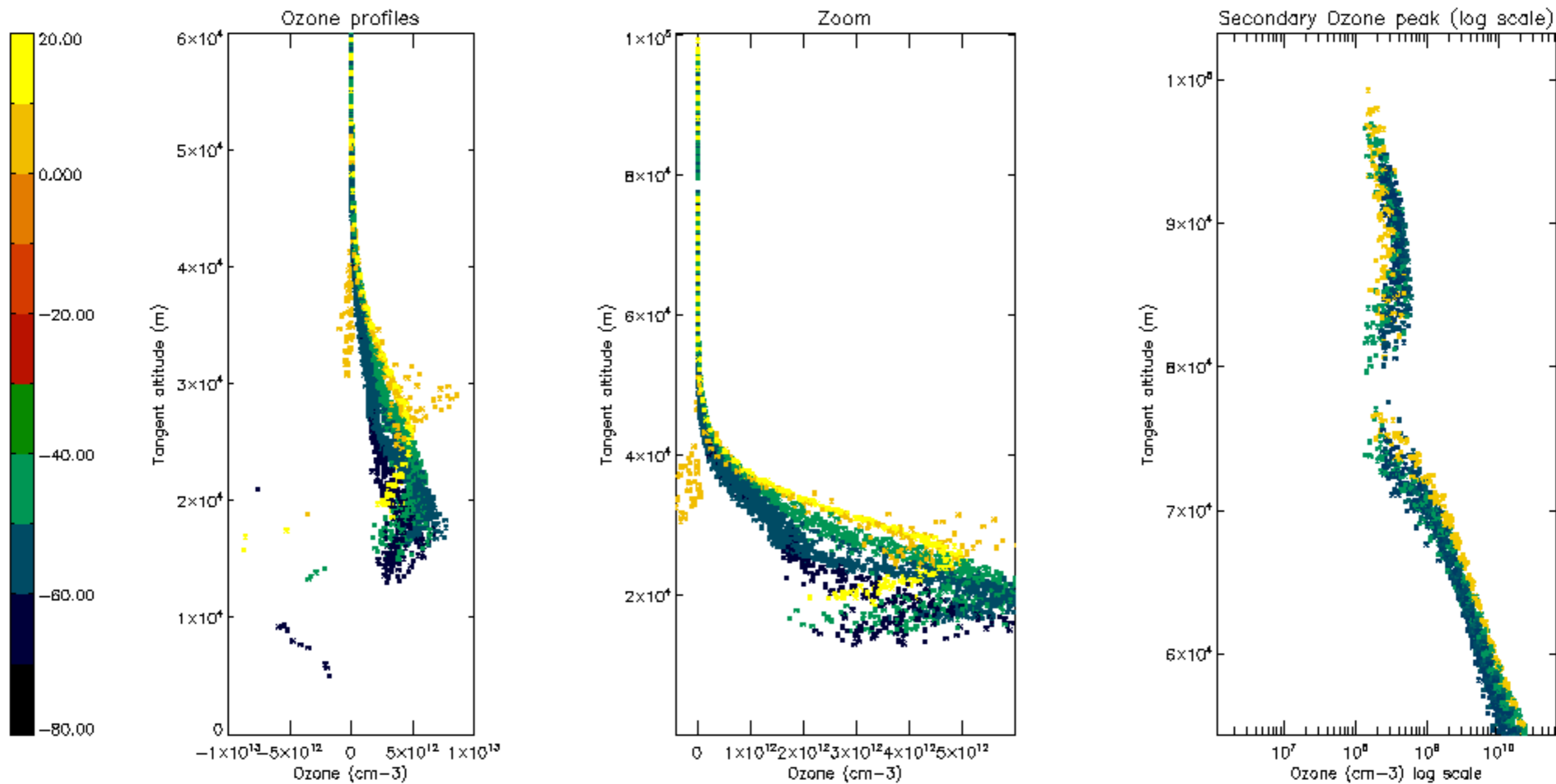


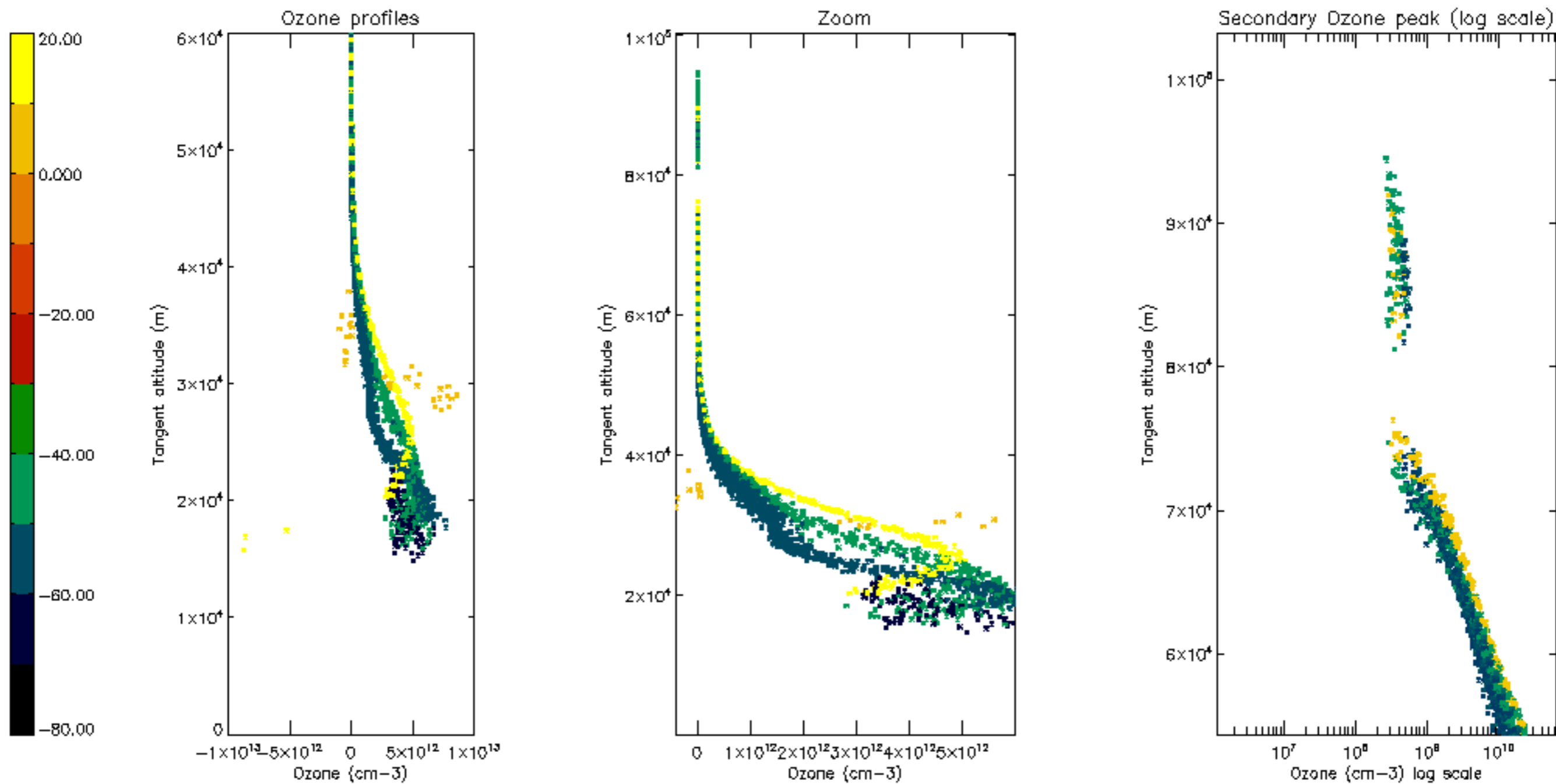
Percentage of saturation errors per profile

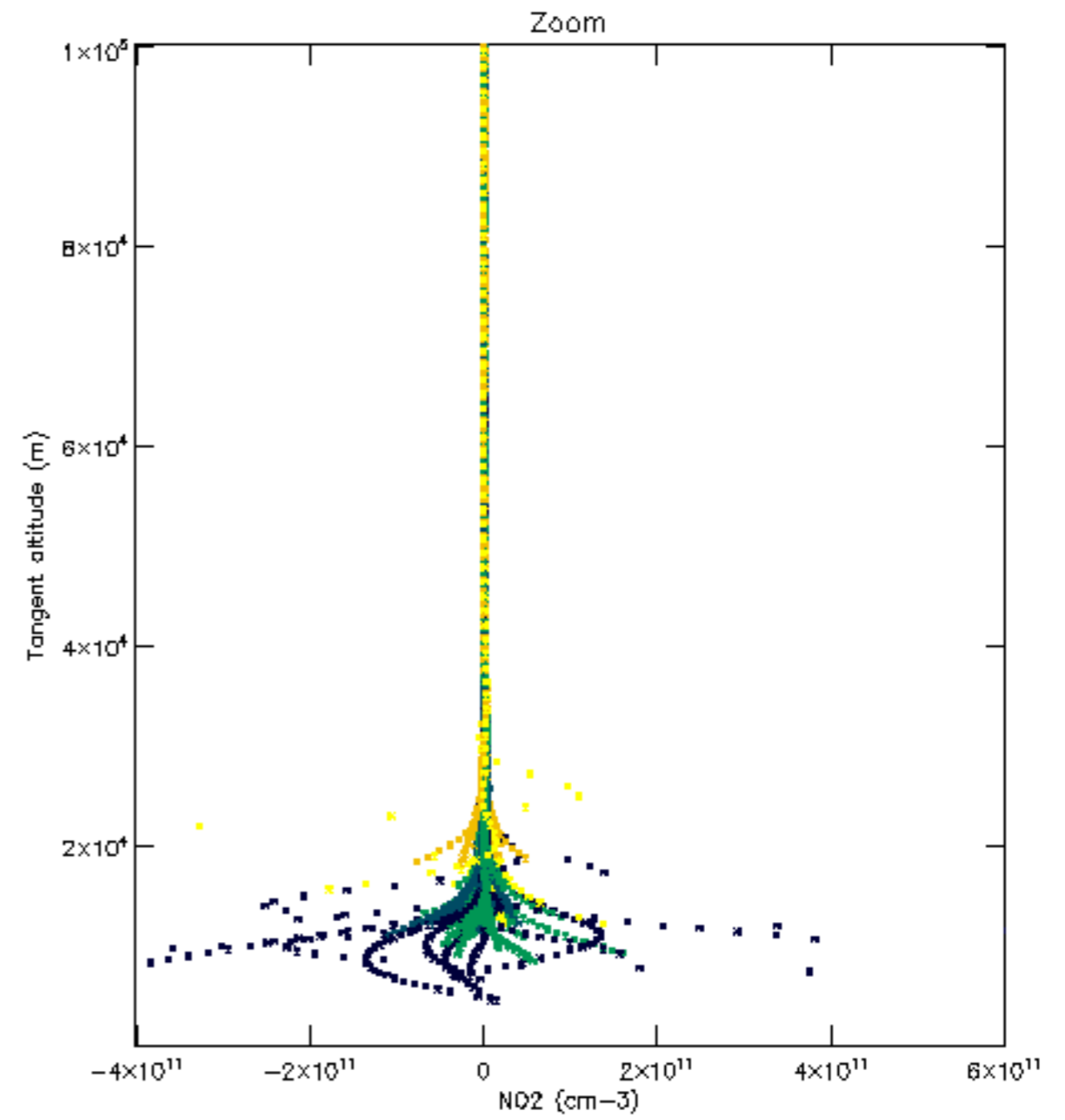
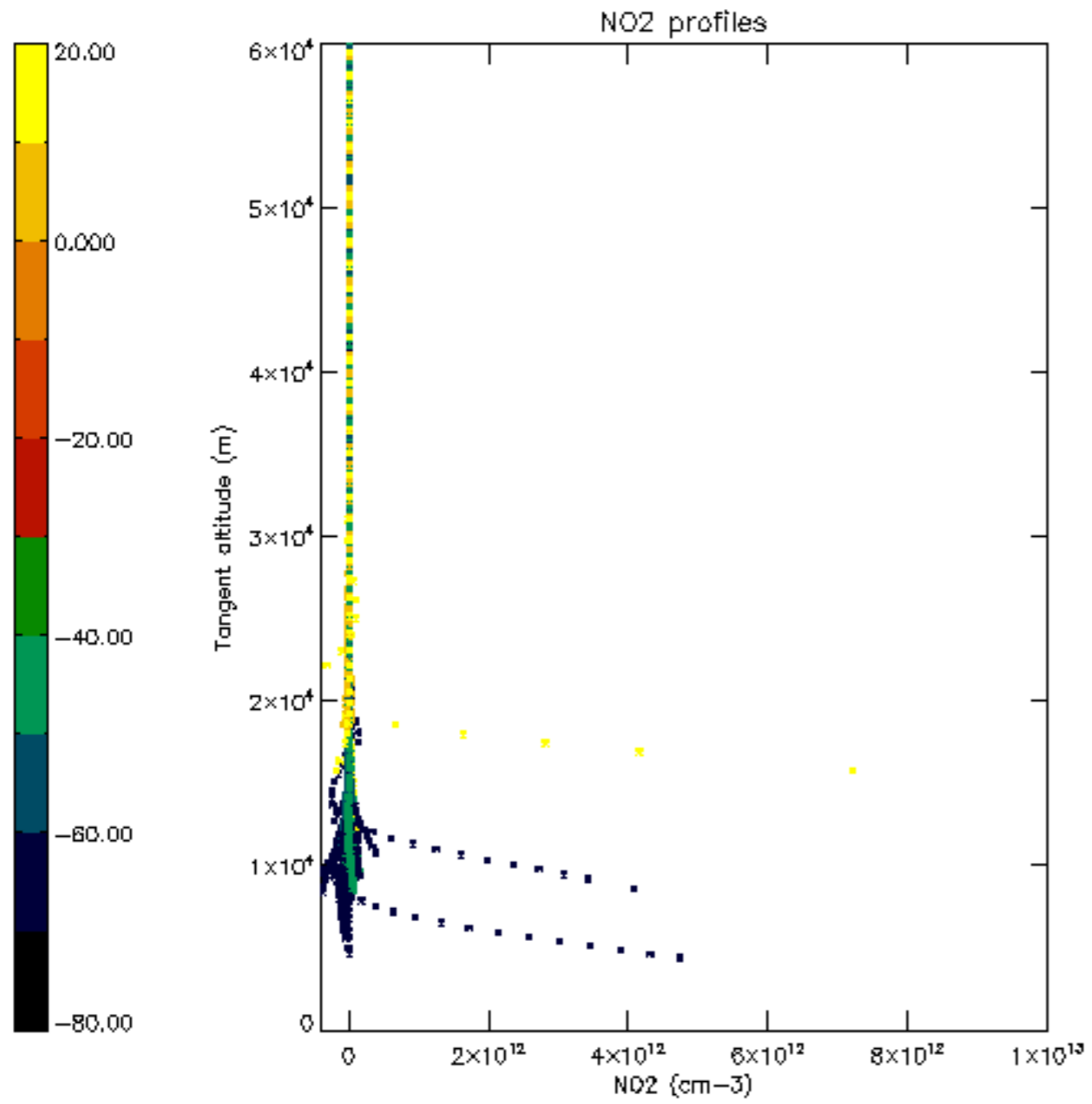


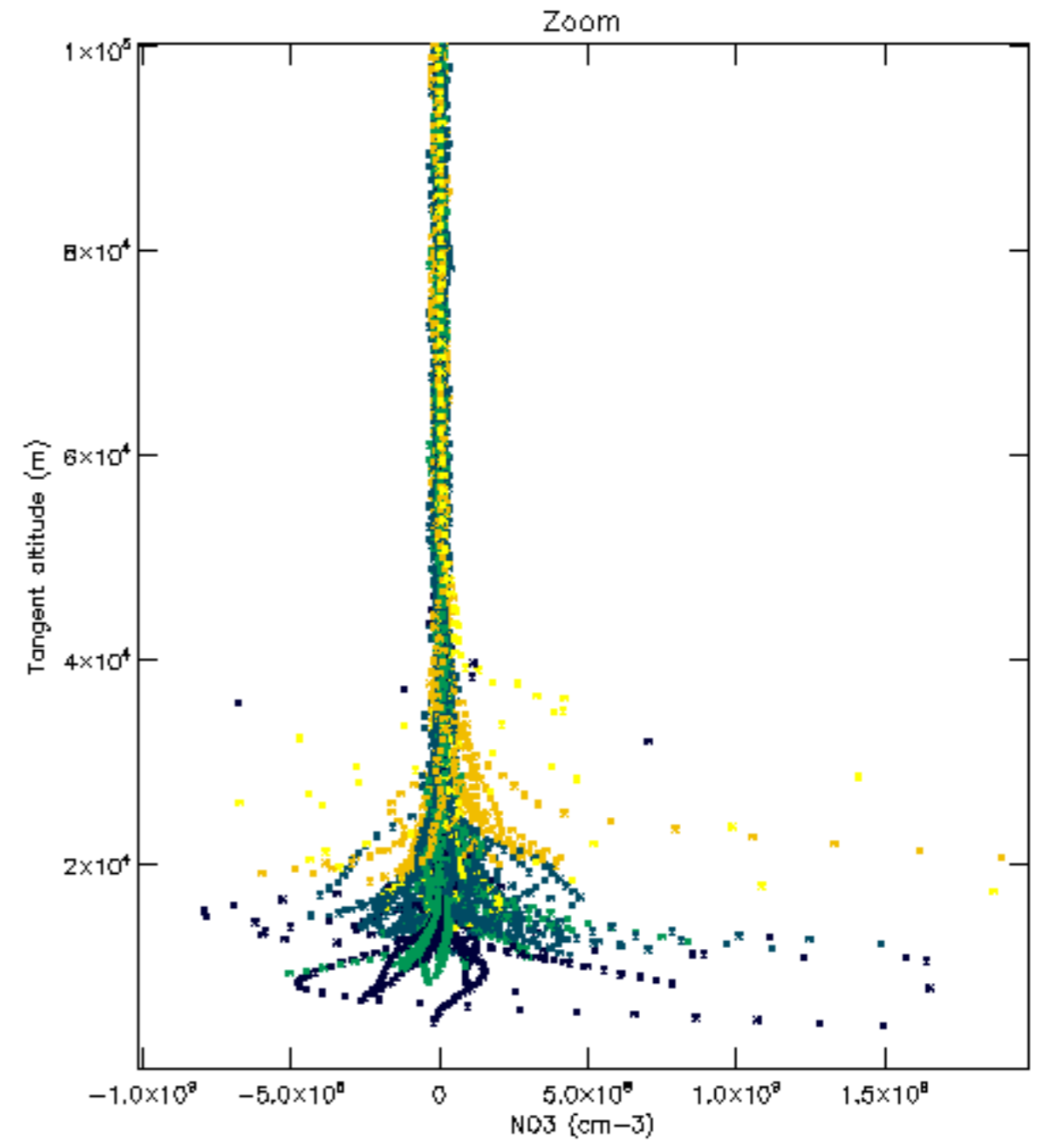
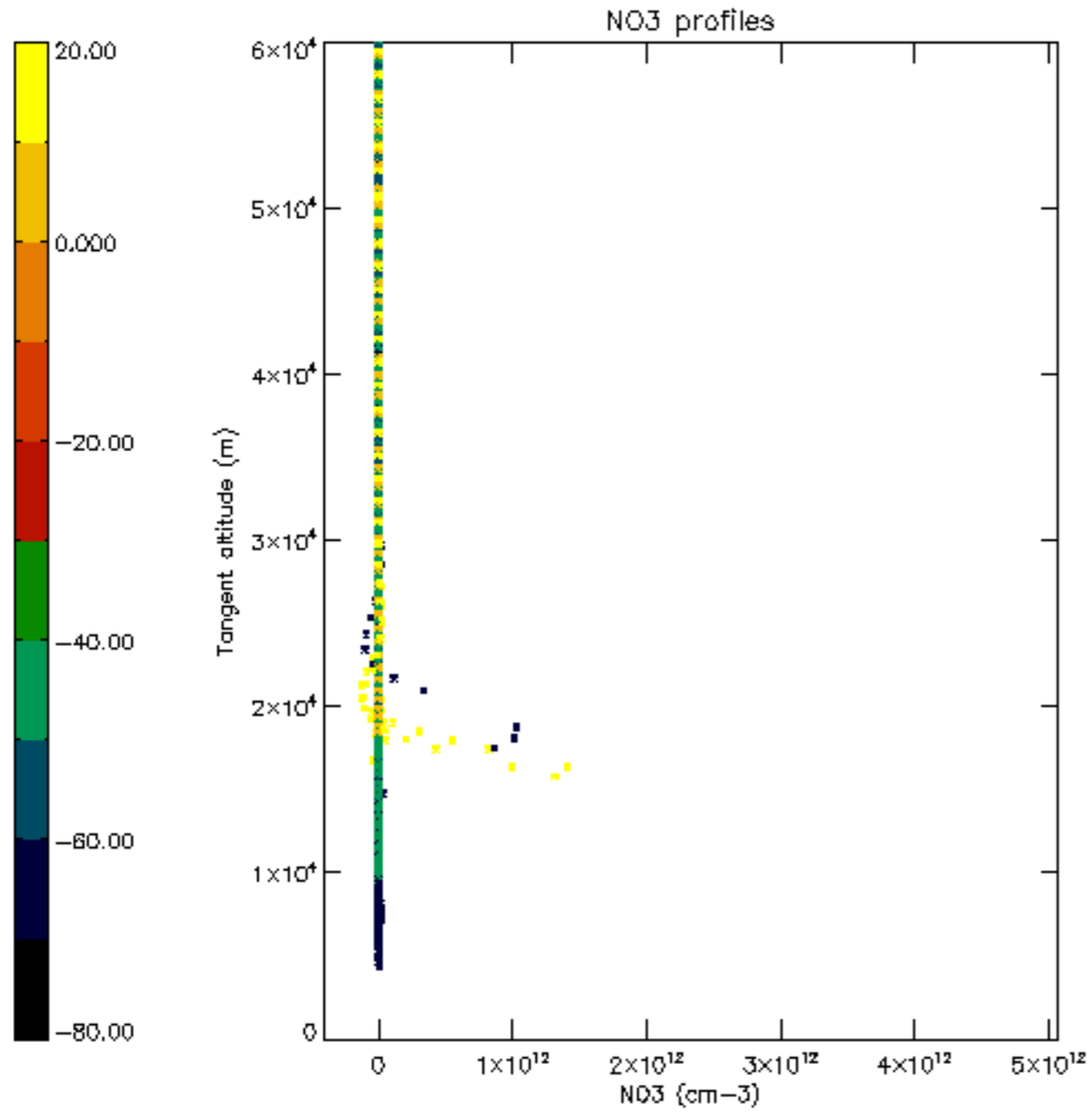


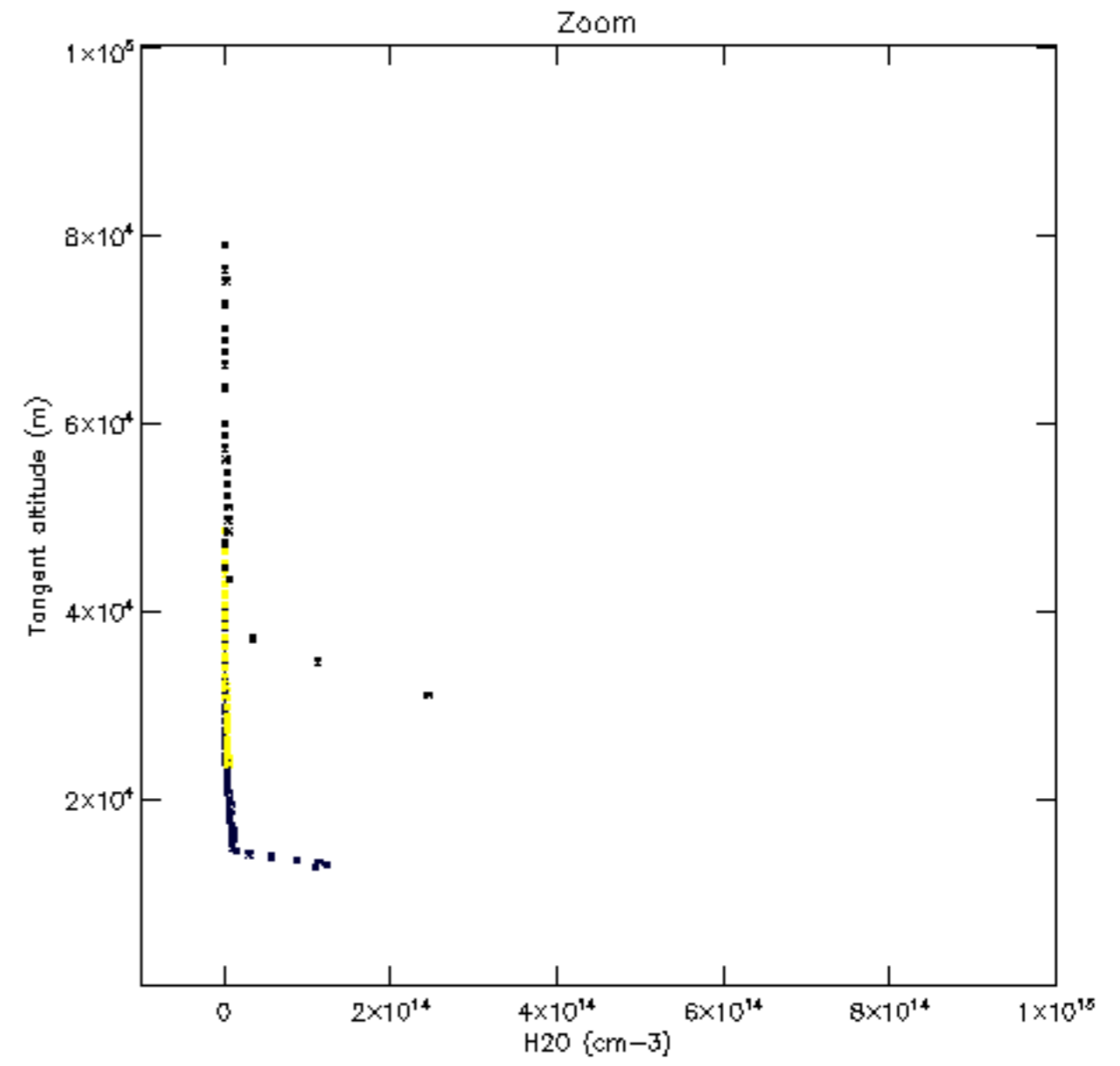
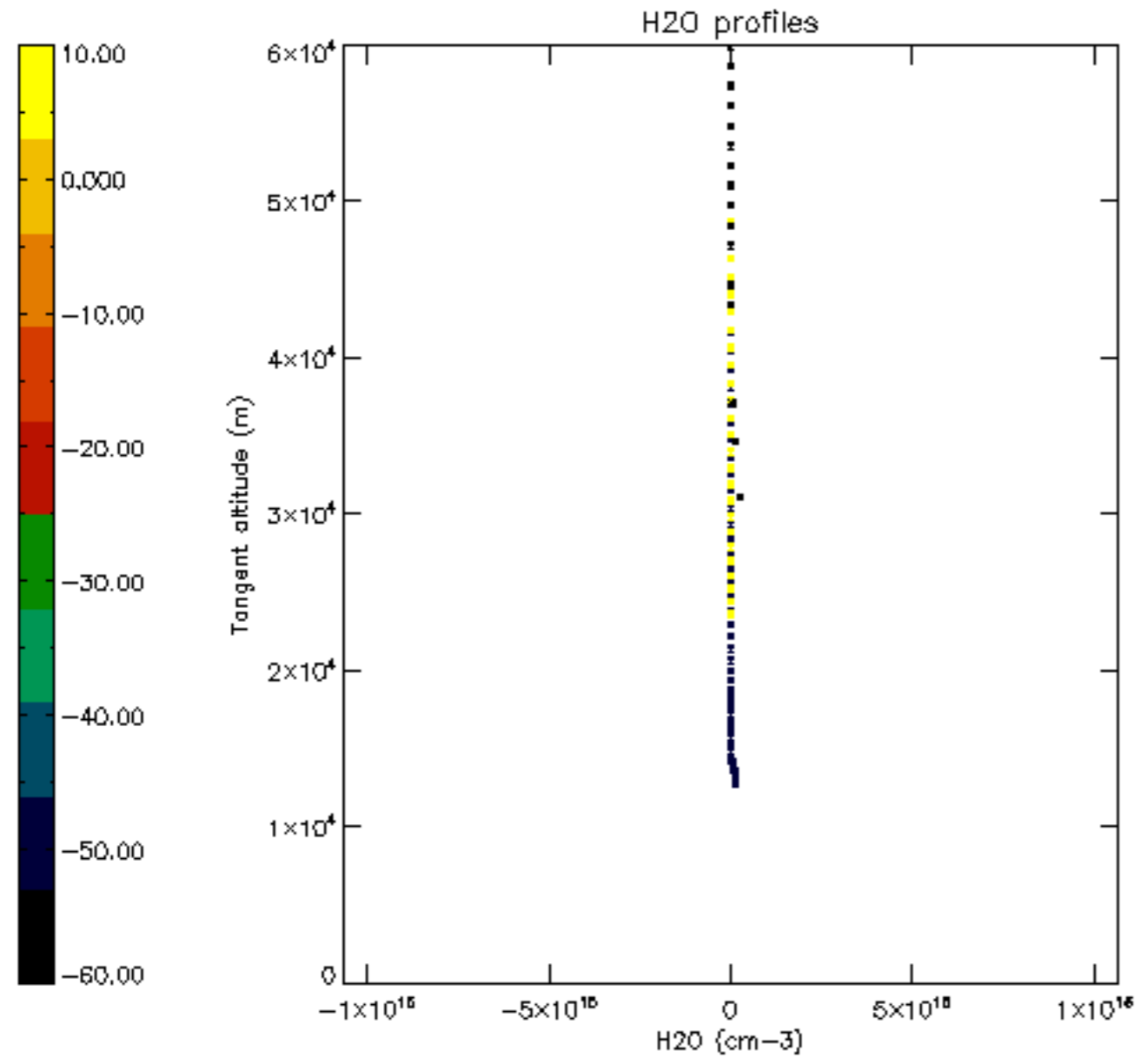


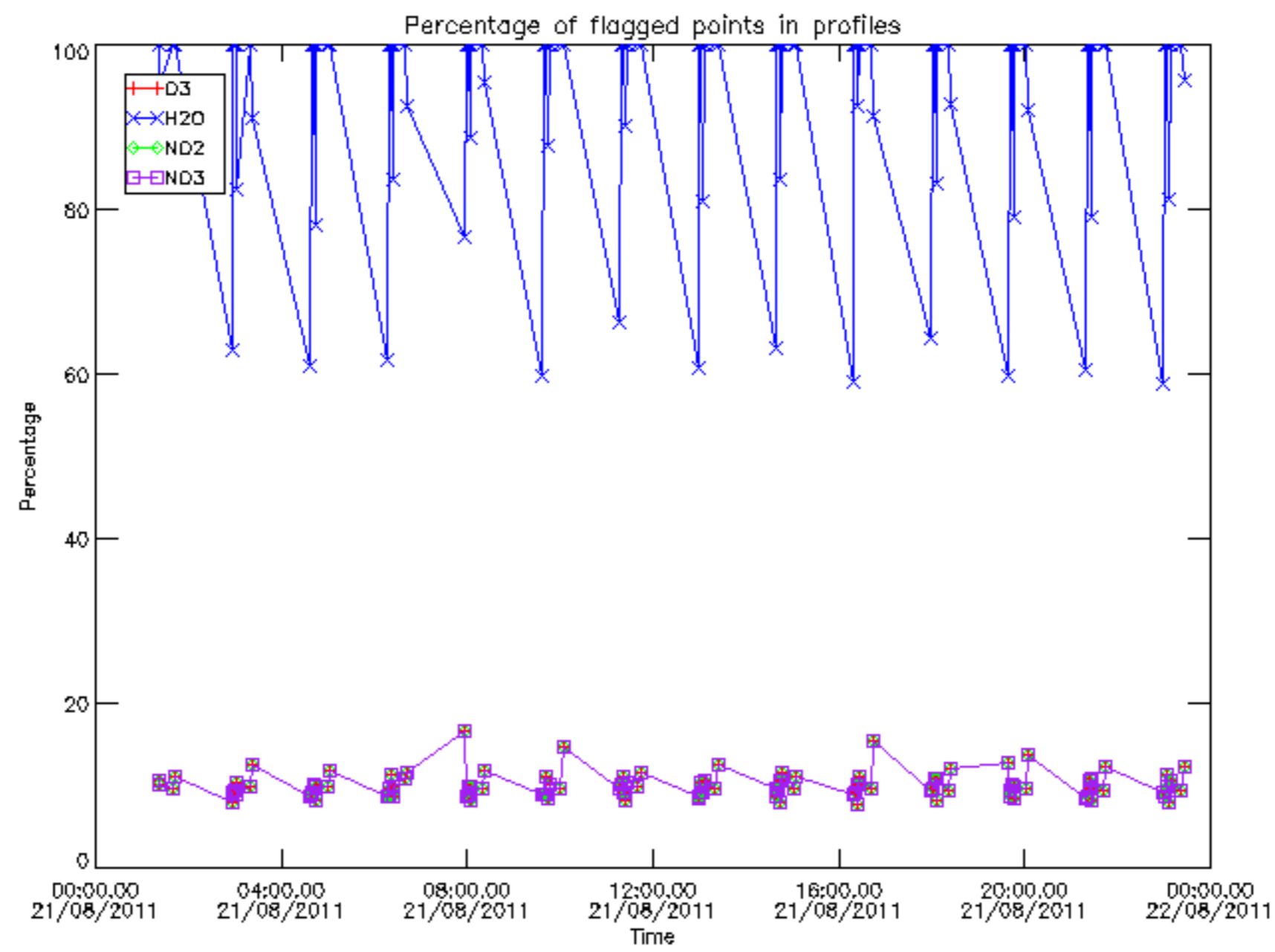




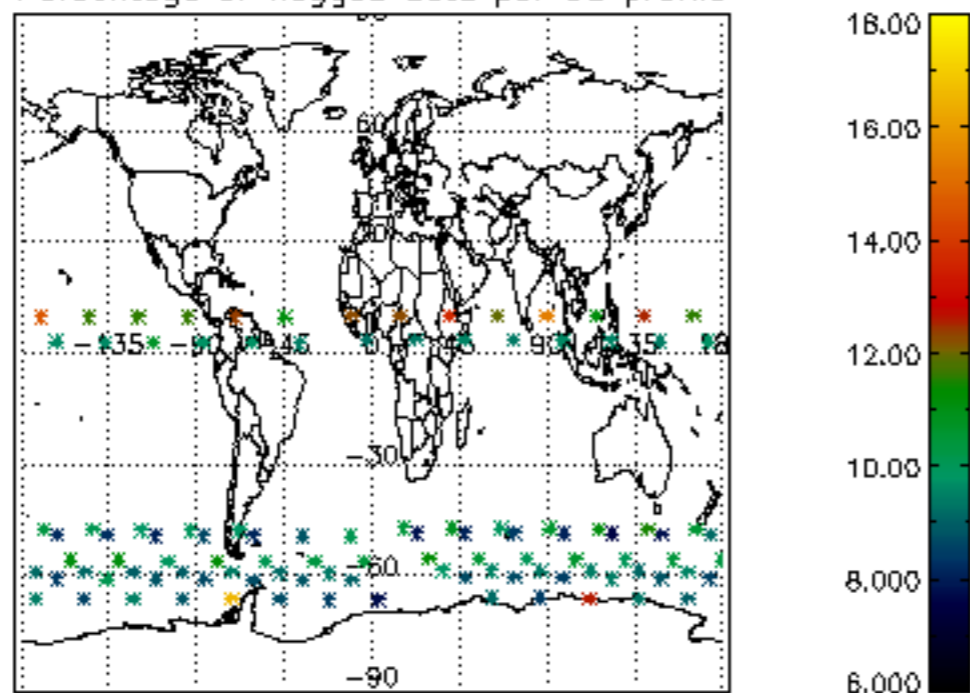




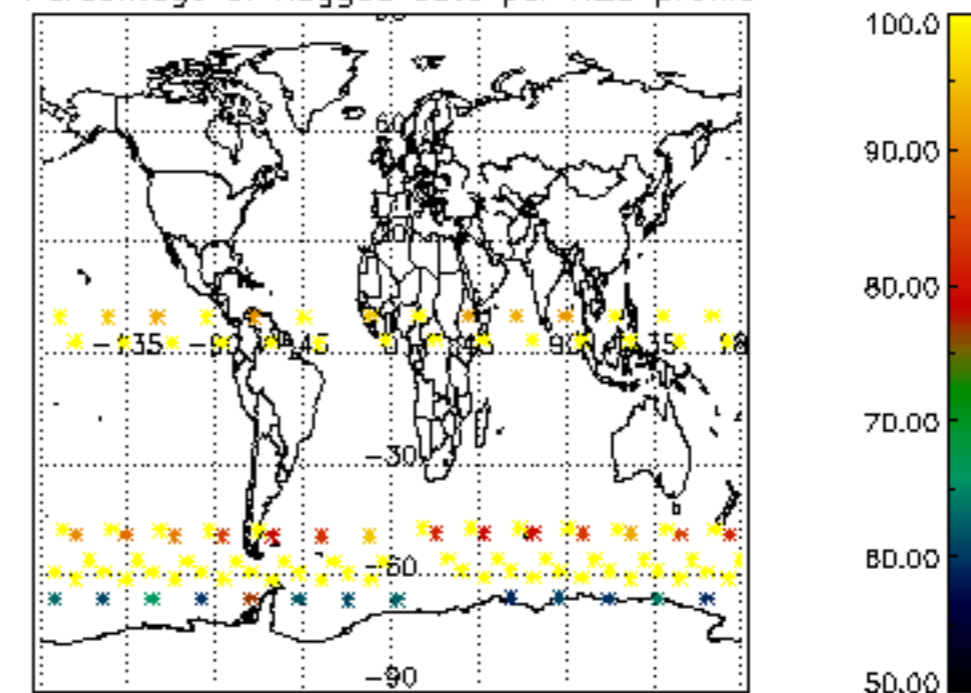




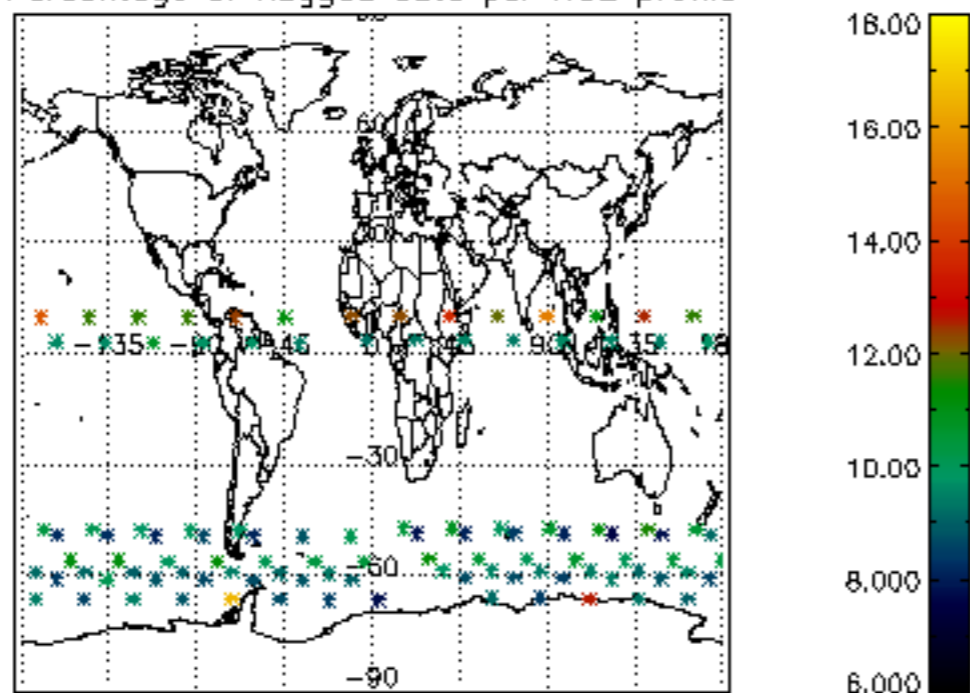
Percentage of flagged data per D3 profile



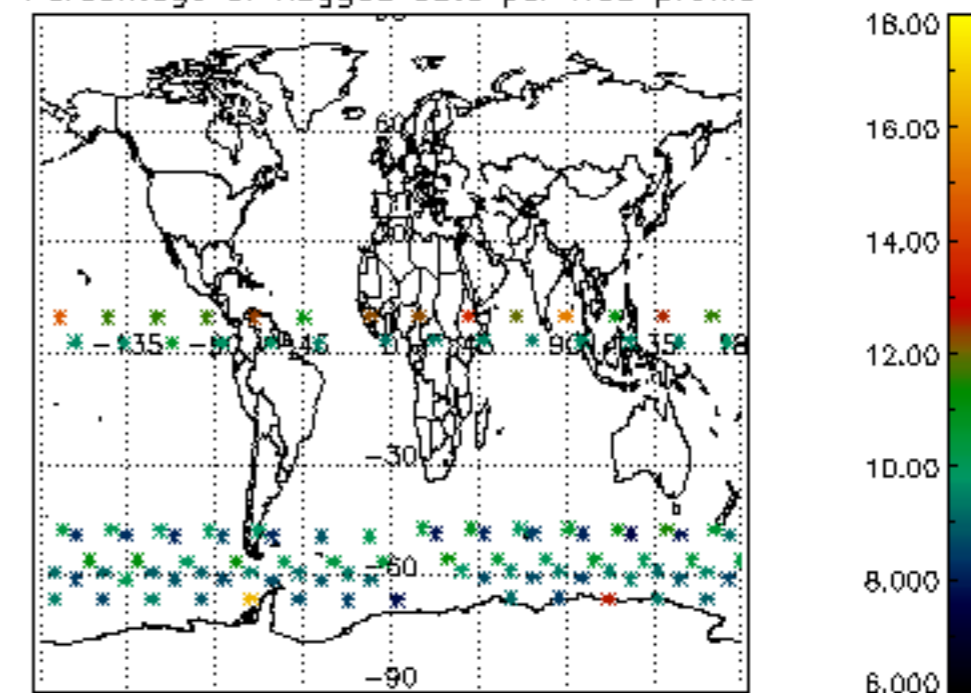
Percentage of flagged data per H2O profile

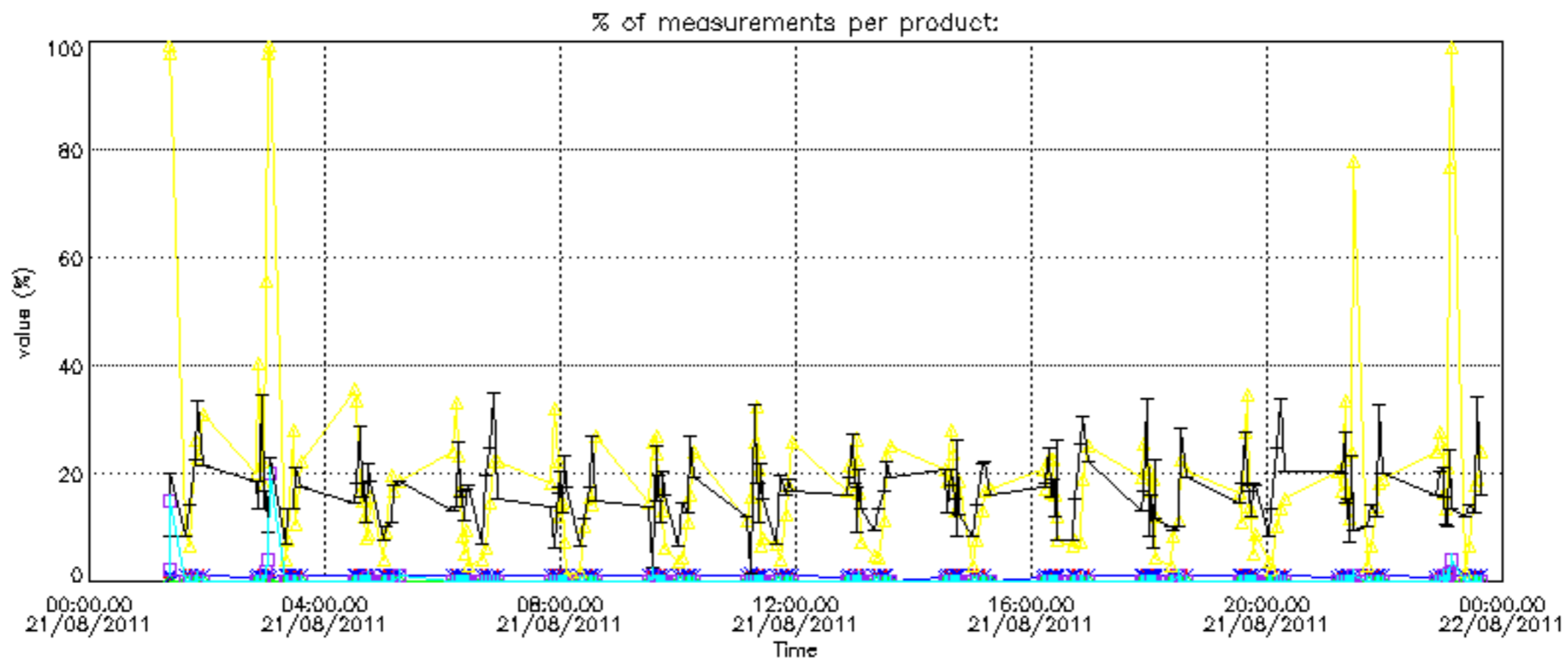
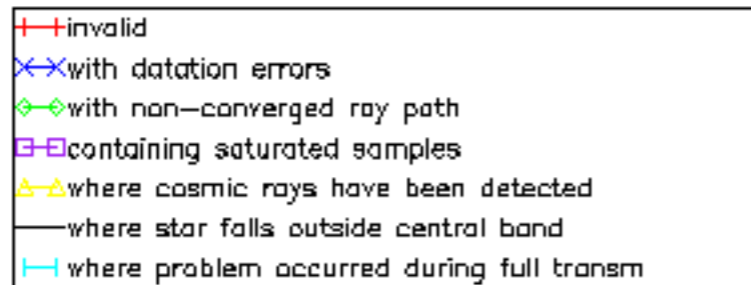


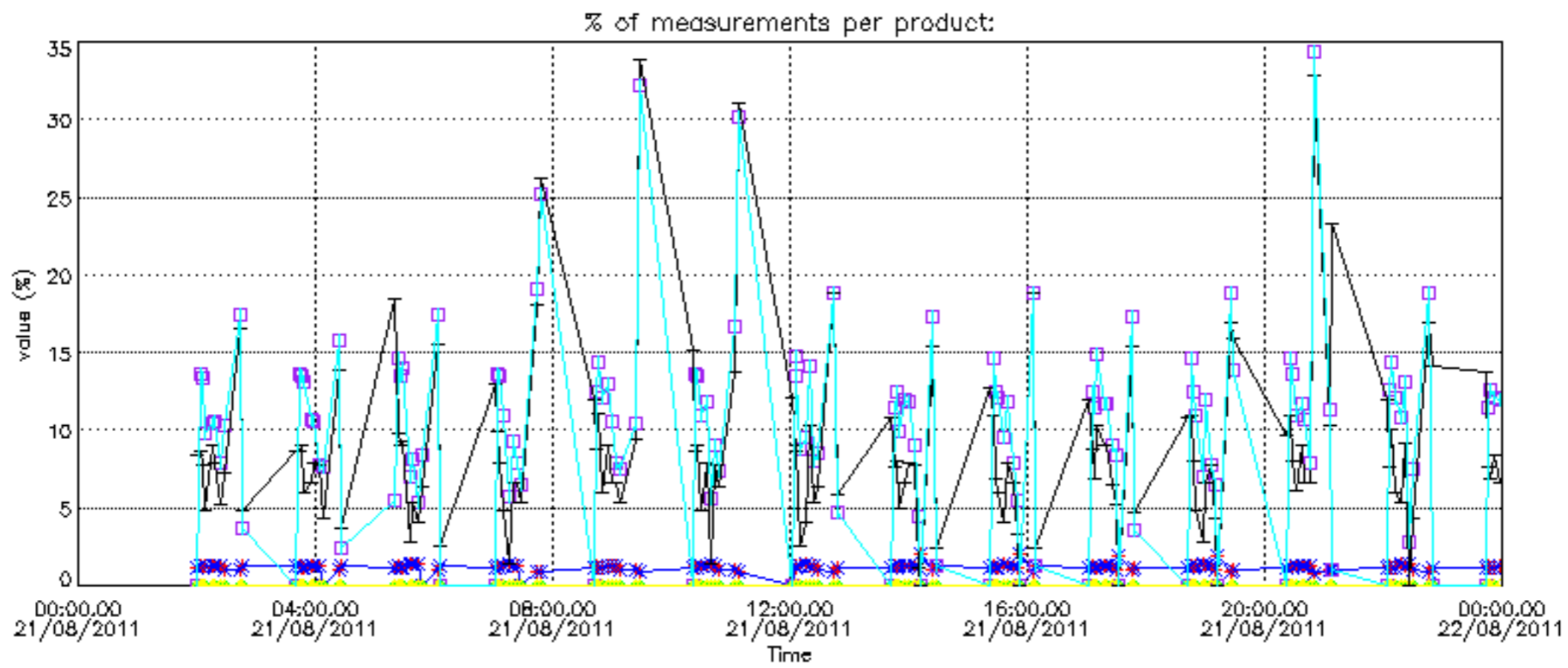
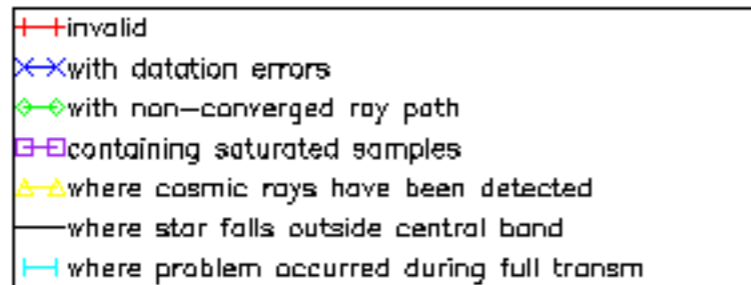
Percentage of flagged data per NO2 profile



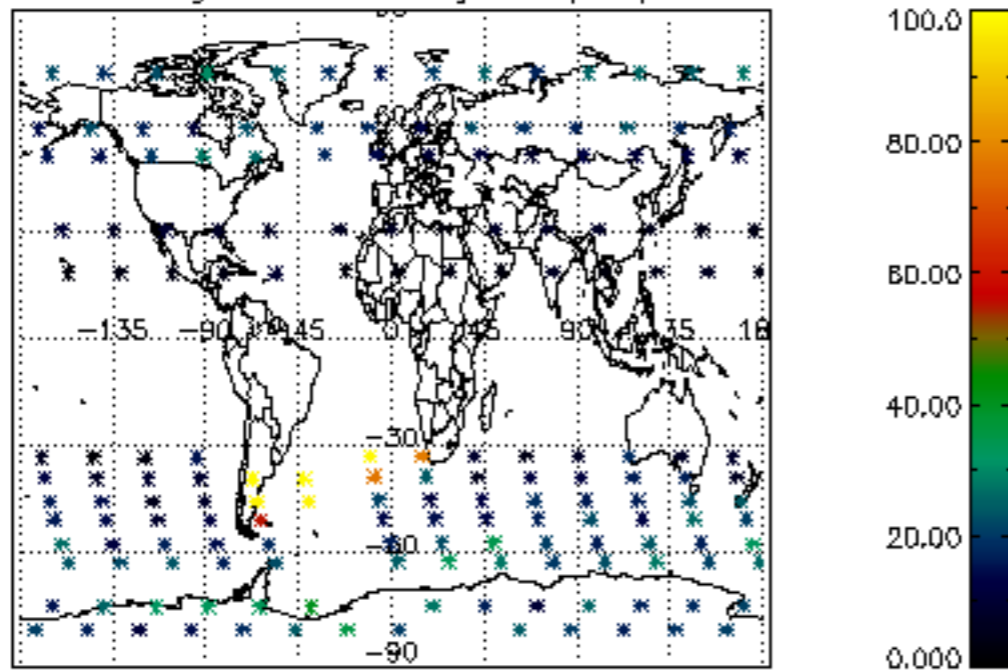
Percentage of flagged data per NO3 profile



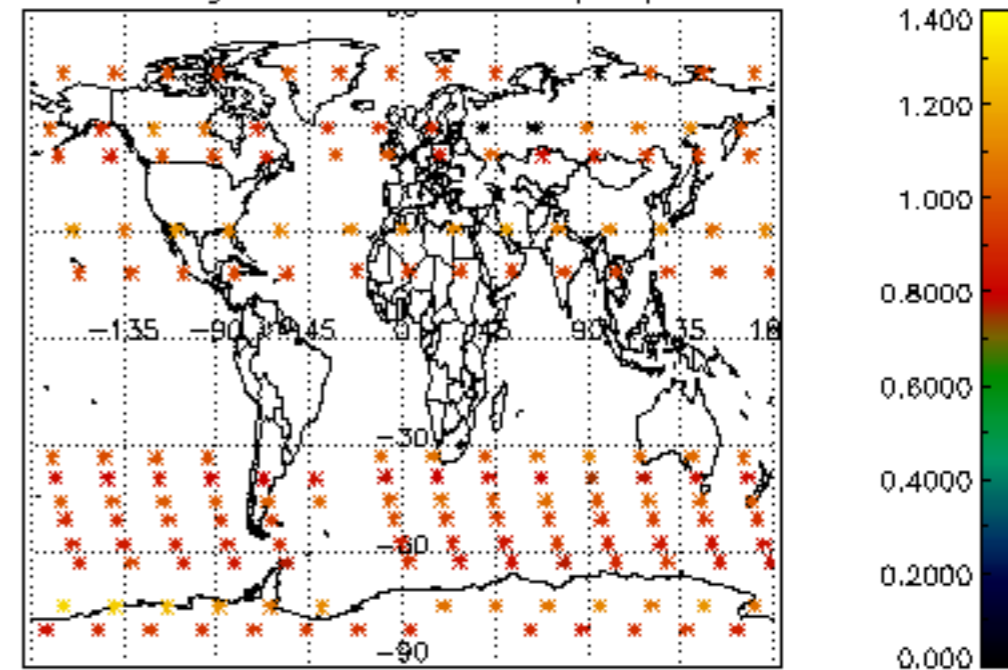




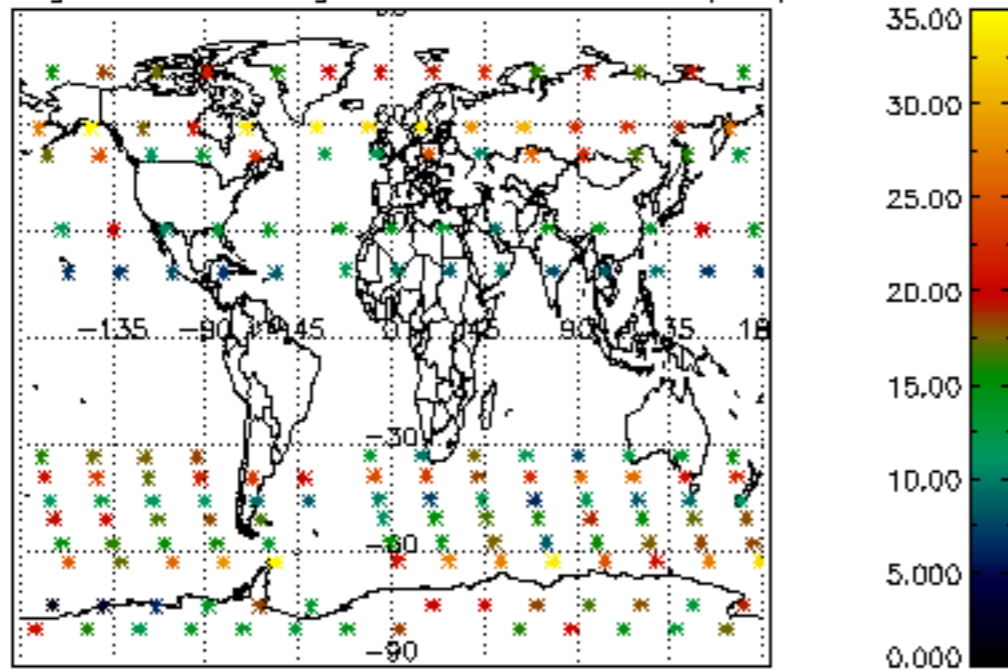
Percentage of cosmic ray hits per profile



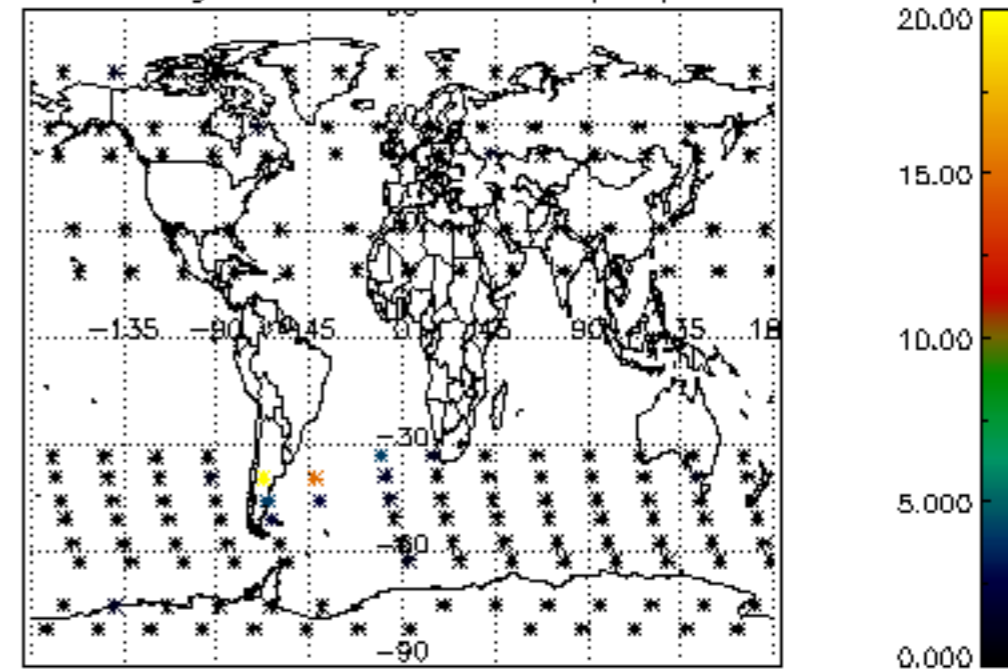
Percentage of datation errors per profile



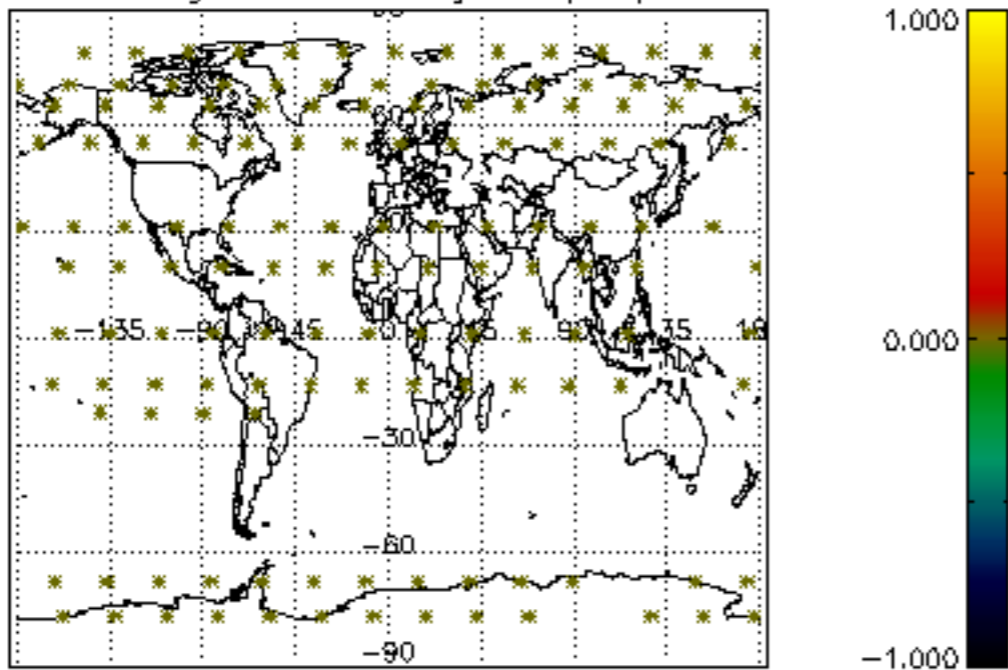
Percentage of star falling outside central band per profile



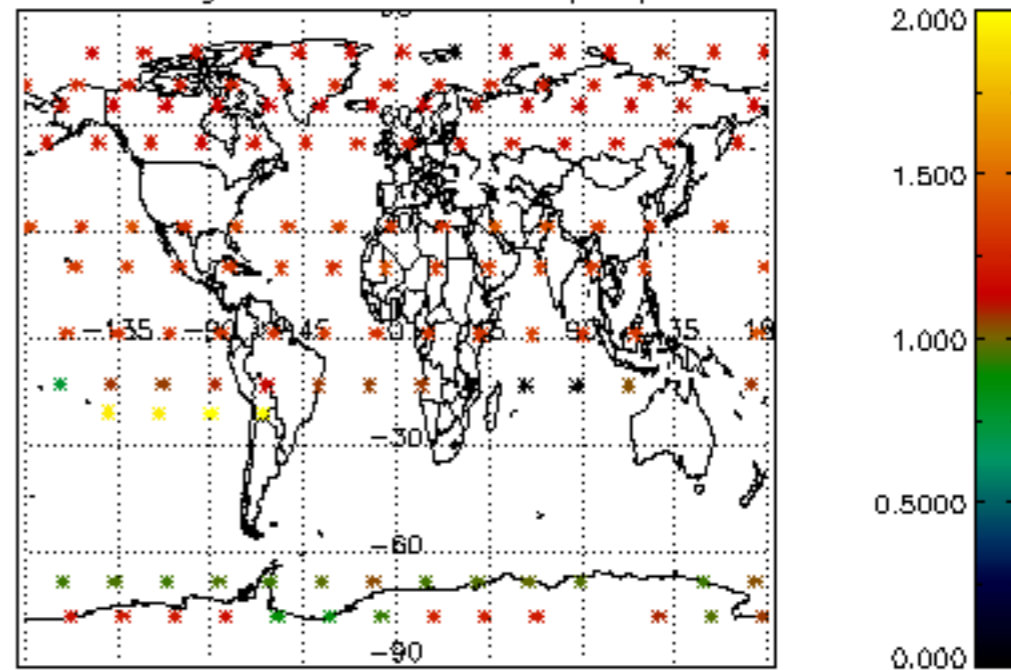
Percentage of saturation errors per profile



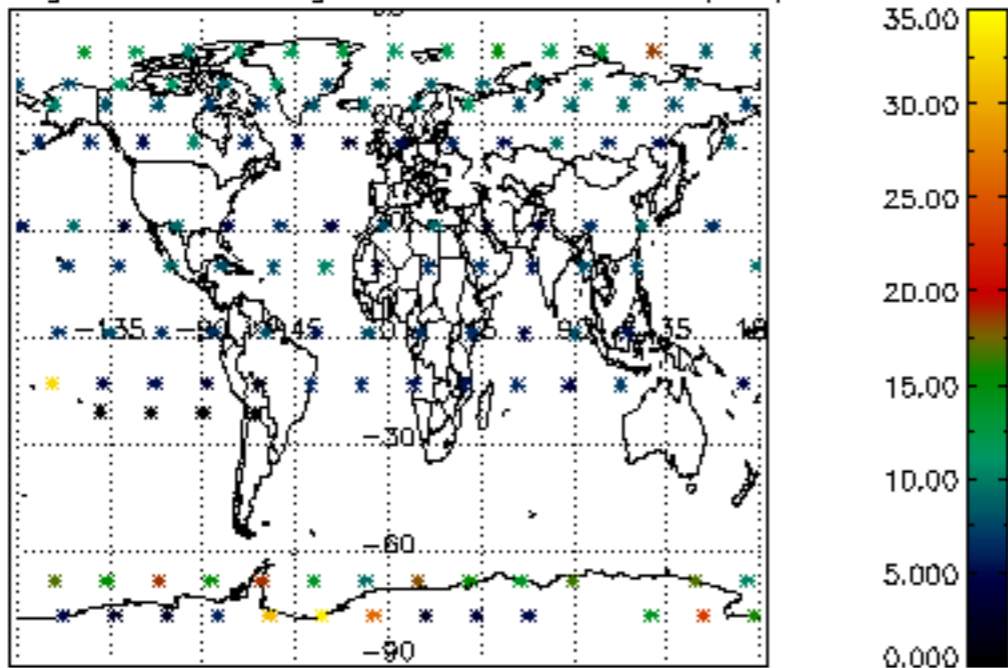
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

