

GOMOS Level 2 Daily Report

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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	24APR2013 16:30:30
Data source version	GOMOS/6.01
Start time of products	04-08-2011 (04AUG2011 00:00:00)
Stop time of products	05-08-2011 (05AUG2011 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.

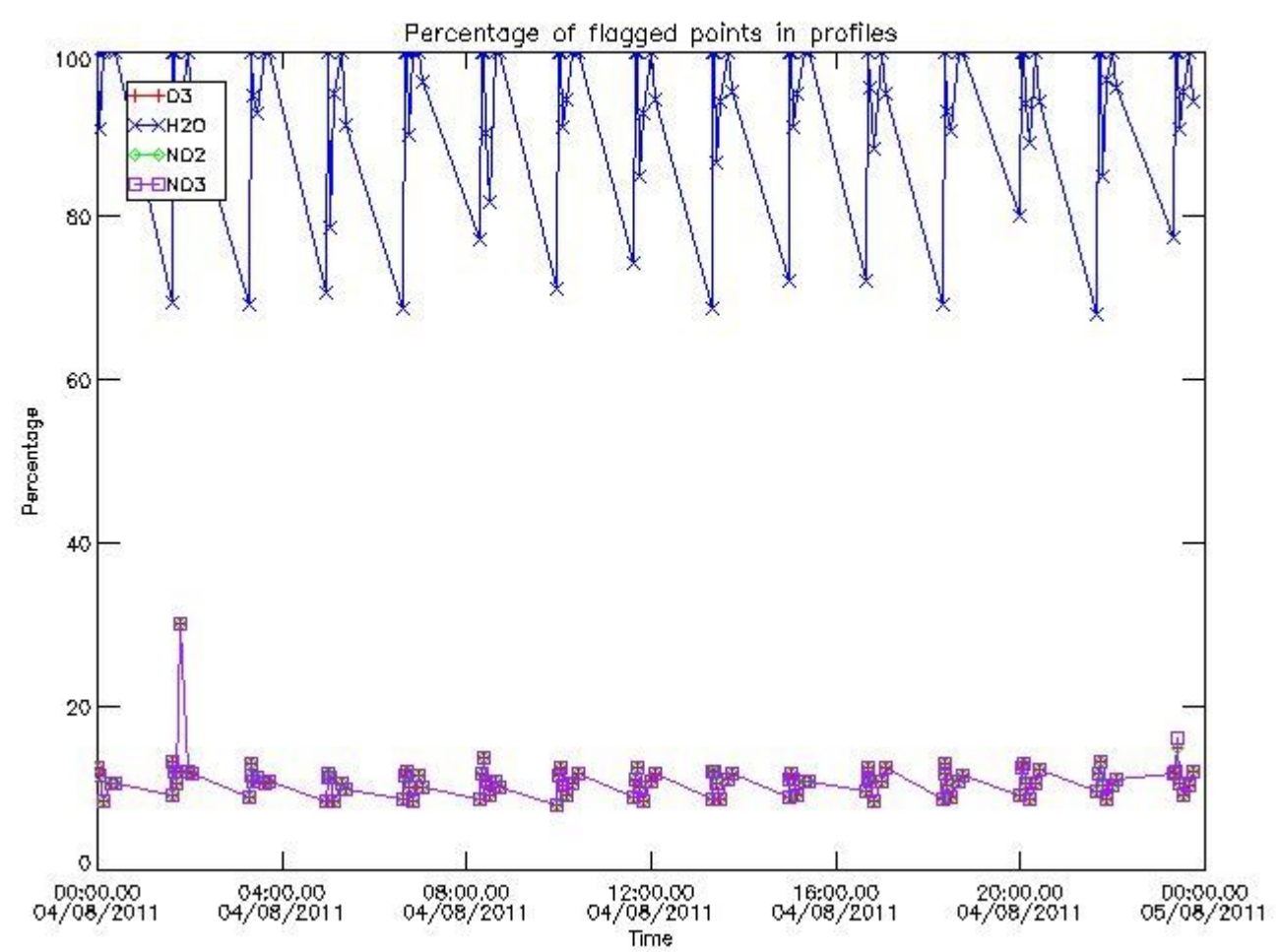
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110804_000015_000000413105_00145_49297_5906.N1	04-AUG-2011 00:00:15	Dark	40.500	30	46Eps Ori	1.6940	30000.	81	49297	No
2	GOM_NL__2PRFIN20110804_000248_000000483105_00145_49297_5907.N1	04-AUG-2011 00:02:48	Dark	48.000	7	19Bet Ori	0.10000	14000.	96	49297	No
3	GOM_NL__2PRFIN20110804_000750_000000603105_00145_49297_5908.N1	04-AUG-2011 00:07:50	Dark	60.000	165	34Gam Eri	2.9500	3200.0	120	49297	No
4	GOM_NL__2PRFIN20110804_001713_000000483105_00146_49298_5897.N1	04-AUG-2011 00:17:13	Dark	48.000	157	The1Eri	2.9060	9300.0	96	49298	No
5	GOM_NL__2PRFIN20110804_002226_000000533105_00146_49298_5898.N1	04-AUG-2011 00:22:26	Dark	52.500	9	Alp Eri	0.45300	24000.	105	49298	No
6	GOM_NL__2PRFIN20110804_002730_000000533105_00146_49298_5899.N1	04-AUG-2011 00:27:30	Straylight	52.500	84	Alp Phe	2.3970	4500.0	105	49298	No
7	GOM_NL__2PRFIN20110804_003226_000000493105_00146_49298_5900.N1	04-AUG-2011 00:32:26	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	49298	No
8	GOM_NL__2PRFIN20110804_003532_000000463105_00146_49298_5901.N1	04-AUG-2011 00:35:32	Straylight	45.500	172	Gam Gru	3.0030	13100.	91	49298	No
9	GOM_NL__2PRFIN20110804_004252_000000513105_00146_49298_5902.N1	04-AUG-2011 00:42:52	Bright	50.500	142	49Del Cap	2.8500	8900.0	101	49298	No
10	GOM_NL__2PRFIN20110804_004649_000000503105_00146_49298_5903.N1	04-AUG-2011 00:46:49	Bright	49.500	154	22Bet Aqr	2.8990	5700.0	99	49298	No
11	GOM_NL__2PRFIN20110804_005052_000000393105_00146_49298_5904.N1	04-AUG-2011 00:50:52	Bright	39.000	11	53Alp Aql	0.76500	8000.0	78	49298	No
12	GOM_NL__2PRFIN20110804_005906_000000403105_00146_49298_5905.N1	04-AUG-2011 00:59:06	Bright	40.000	92	53Eps Cyg	2.5000	4500.0	80	49298	No
13	GOM_NL__2PRFIN20110804_010118_000000353105_00146_49298_5906.N1	04-AUG-2011 01:01:18	Bright	34.500	144	18Del Cyg	2.8600	11000.	69	49298	No
14	GOM_NL__2PRFIN20110804_010739_000000413105_00146_49298_5907.N1	04-AUG-2011 01:07:39	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	49298	No
15	GOM_NL__2PRFIN20110804_012223_000000553105_00146_49298_5908.N1	04-AUG-2011 01:22:23	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	49298	No
16	GOM_NL__2PRFIN20110804_012407_000000493105_00146_49298_5909.N1	04-AUG-2011 01:24:07	Bright	49.000	35	33Alp Per	1.7950	6250.0	98	49298	No
17	GOM_NL__2PRFIN20110804_012628_000000443105_00146_49298_5910.N1	04-AUG-2011 01:26:28	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	49298	No
18	GOM_NL__2PRFIN20110804_012817_000000503105_00146_49298_5911.N1	04-AUG-2011 01:28:17	Bright	50.000	149	45Eps Per	2.8880	30000.	100	49298	No
19	GOM_NL__2PRFIN20110804_013149_000000483105_00146_49298_5912.N1	04-AUG-2011 01:31:49	Bright	47.500	28	12Bet Tau	1.6500	15200.	95	49298	No
20	GOM_NL__2PRFIN20110804_013357_000000393105_00146_49298_5913.N1	04-AUG-2011 01:33:57	Twilight_stray	38.500	176	23Zet Tau	3.0200	22000.	77	49298	No
21	GOM_NL__2PRFIN20110804_013636_000000563105_00146_49298_5914.N1	04-AUG-2011 01:36:36	Dark	56.000	13	87Alp Tau	0.86700	3800.0	112	49298	No
22	GOM_NL__2PRFIN20110804_013834_000000433105_00146_49298_5915.N1	04-AUG-2011 01:38:34	Dark	42.500	27	24Gam Ori	1.6360	26000.	85	49298	No
23	GOM_NL__2PRFIN20110804_014029_000000433105_00146_49298_5916.N1	04-AUG-2011 01:40:29	Dark	42.500	30	46Eps Ori	1.6940	30000.	85	49298	No
24	GOM_NL__2PRFIN20110804_014303_000000483105_00146_49298_5917.N1	04-AUG-2011 01:43:03	Dark	48.000	7	19Bet Ori	0.10000	14000.	96	49298	No
25	GOM_NL__2PRFIN20110804_014805_000000613105_00146_49298_5918.N1	04-AUG-2011 01:48:05	Dark	60.500	165	34Gam Eri	2.9500	3200.0	121	49298	No
26	GOM_NL__2PRFIN20110804_015728_000000473105_00147_49299_5977.N1	04-AUG-2011 01:57:28	Dark	46.500	157	The1Eri	2.9060	9300.0	93	49299	No
27	GOM_NL__2PRFIN20110804_020241_000000443105_00147_49299_5978.N1	04-AUG-2011 02:02:41	Dark	43.500	9	Alp Eri	0.45300	24000.	87	49299	No
28	GOM_NL__2PRFIN20110804_020745_000000533105_00147_49299_5979.N1	04-AUG-2011 02:07:45	Straylight	52.500	84	Alp Phe	2.3970	4500.0	105	49299	No
29	GOM_NL__2PRFIN20110804_021241_000000443105_00147_49299_5980.N1	04-AUG-2011 02:12:41	Straylight	44.000	31	Alp Gru	1.7340	15200.	88	49299	No
30	GOM_NL__2PRFIN20110804_021546_000000463105_00147_49299_5981.N1	04-AUG-2011 02:15:46	Straylight	45.500	172	Gam Gru	3.0030	13100.	91	49299	No
31	GOM_NL__2PRFIN20110804_022306_000000503105_00147_49299_5982.N1	04-AUG-2011 02:23:06	Bright	49.500	142	49Del Cap	2.8500	8900.0	99	49299	No
32	GOM_NL__2PRFIN20110804_022703_000000503105_00147_49299_5983.N1	04-AUG-2011 02:27:03	Bright	49.500	154	22Bet Aqr	2.8990	5700.0	99	49299	No
33	GOM_NL__2PRFIN20110804_023106_000000373105_00147_49299_5984.N1	04-AUG-2011 02:31:06	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	49299	No
34	GOM_NL__2PRFIN20110804_023919_000000433105_00147_49299_5985.N1	04-AUG-2011 02:39:19	Bright	42.500	92	53Eps Cyg	2.5000	4500.0	85	49299	No
35	GOM_NL__2PRFIN20110804_024131_000000363105_00147_49299_5986.N1	04-AUG-2011 02:41:31	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	49299	No
36	GOM_NL__2PRFIN20110804_024753_000000403105_00147_49299_5987.N1	04-AUG-2011 02:47:53	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	49299	No
37	GOM_NL__2PRFIN20110804_030237_000000553105_00147_49299_5988.N1	04-AUG-2011 03:02:37	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	49299	No
38	GOM_NL__2PRFIN20110804_030421_000000523105_00147_49299_5989.N1	04-AUG-2011 03:04:21	Bright	51.500	35	33Alp Per	1.7950	6250.0	103	49299	No
39	GOM_NL__2PRFIN20110804_030642_000000473105_00147_49299_5990.N1	04-AUG-2011 03:06:42	Bright	46.500	6	13Alp Aur	0.080000	3400.0	93	49299	No
40	GOM_NL__2PRFIN20110804_030831_000000493105_00147_49299_5991.N1	04-AUG-2011 03:08:31	Bright	49.000	149	45Eps Per	2.8880	30000.	98	49299	No
41	GOM_NL__2PRFIN20110804_031204_000000473105_00147_49299_5992.N1	04-AUG-2011 03:12:04	Bright	47.000	28	12Bet Tau	1.6500	15200.	94	49299	No
42	GOM_NL__2PRFIN20110804_031411_000000413105_00147_49299_5993.N1	04-AUG-2011 03:14:11	Twilight_stray	40.500	176	23Zet Tau	3.0200	22000.	81	49299	No

279	GOM_NL__2PRFIN20110804_212506_000000313105_00158_49310_6390.N1	04-AUG-2011 21:25:06	Twilight	31.000	160	23Gam Per	2.9300	4700.0	62	49310	No
280	GOM_NL__2PRFIN20110804_212757_000000573105_00158_49310_6391.N1	04-AUG-2011 21:27:57	Bright	56.500	175	39Del Per	3.0100	19400.	113	49310	No
281	GOM_NL__2PRFIN20110804_213104_000000473105_00158_49310_6392.N1	04-AUG-2011 21:31:04	Bright	47.000	149	45Eps Per	2.8880	30000.	94	49310	No
282	GOM_NL__2PRFIN20110804_213439_000000463105_00158_49310_6393.N1	04-AUG-2011 21:34:39	Bright	45.500	28	12Bet Tau	1.6500	15200.	91	49310	No
283	GOM_NL__2PRFIN20110804_213648_000000443105_00158_49310_6394.N1	04-AUG-2011 21:36:48	Twilight	43.500	176	23Zet Tau	3.0200	22000.	87	49310	No
284	GOM_NL__2PRFIN20110804_213929_000000583105_00158_49310_6395.N1	04-AUG-2011 21:39:29	Dark	58.000	13	87Alp Tau	0.86700	3800.0	116	49310	No
285	GOM_NL__2PRFIN20110804_214127_000000443105_00158_49310_6396.N1	04-AUG-2011 21:41:27	Dark	43.500	27	24Gam Ori	1.6360	26000.	87	49310	No
286	GOM_NL__2PRFIN20110804_214322_000000423105_00158_49310_6397.N1	04-AUG-2011 21:43:22	Dark	42.000	30	46Eps Ori	1.6940	30000.	84	49310	No
287	GOM_NL__2PRFIN20110804_214557_000000493105_00158_49310_6398.N1	04-AUG-2011 21:45:57	Dark	49.000	7	19Bet Ori	0.10000	14000.	98	49310	No
288	GOM_NL__2PRFIN20110804_215106_000000603105_00158_49310_6399.N1	04-AUG-2011 21:51:06	Dark	59.500	165	34Gam Eri	2.9500	3200.0	119	49310	No
289	GOM_NL__2PRFIN20110804_220028_000000493105_00159_49311_6403.N1	04-AUG-2011 22:00:28	Dark	49.000	157	The1Eri	2.9060	9300.0	98	49311	No
290	GOM_NL__2PRFIN20110804_220537_000000463105_00159_49311_6404.N1	04-AUG-2011 22:05:37	Dark	45.500	9	Alp Eri	0.45300	24000.	91	49311	No
291	GOM_NL__2PRFIN20110804_221045_000000593105_00159_49311_6405.N1	04-AUG-2011 22:10:45	Straylight	59.000	84	Alp Phe	2.3970	4500.0	118	49311	No
292	GOM_NL__2PRFIN20110804_221534_000000433105_00159_49311_6406.N1	04-AUG-2011 22:15:34	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	49311	No
293	GOM_NL__2PRFIN20110804_221839_000000453105_00159_49311_6407.N1	04-AUG-2011 22:18:39	Straylight	44.500	172	Gam Gru	3.0030	13100.	89	49311	No
294	GOM_NL__2PRFIN20110804_222555_000000503105_00159_49311_6408.N1	04-AUG-2011 22:25:55	Bright	50.000	142	49Del Cap	2.8500	8900.0	100	49311	No
295	GOM_NL__2PRFIN20110804_222949_000000493105_00159_49311_6409.N1	04-AUG-2011 22:29:49	Bright	48.500	154	22Bet Aqr	2.8990	5700.0	97	49311	No
296	GOM_NL__2PRFIN20110804_223354_000000373105_00159_49311_6410.N1	04-AUG-2011 22:33:54	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	49311	No
297	GOM_NL__2PRFIN20110804_224202_000000423105_00159_49311_6411.N1	04-AUG-2011 22:42:02	Bright	41.500	92	53Eps Cyg	2.5000	4500.0	83	49311	No
298	GOM_NL__2PRFIN20110804_224418_000000363105_00159_49311_6412.N1	04-AUG-2011 22:44:18	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	49311	No
299	GOM_NL__2PRFIN20110804_225036_000000373105_00159_49311_6413.N1	04-AUG-2011 22:50:36	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	49311	No
300	GOM_NL__2PRFIN20110804_230520_000000313105_00159_49311_6414.N1	04-AUG-2011 23:05:20	Twilight	31.000	160	23Gam Per	2.9300	4700.0	62	49311	No
301	GOM_NL__2PRFIN20110804_230811_000000453105_00159_49311_6415.N1	04-AUG-2011 23:08:11	Bright	45.000	175	39Del Per	3.0100	19400.	90	49311	No
302	GOM_NL__2PRFIN20110804_231118_000000473105_00159_49311_6416.N1	04-AUG-2011 23:11:18	Bright	47.000	149	45Eps Per	2.8880	30000.	94	49311	No
303	GOM_NL__2PRFIN20110804_231453_000000473105_00159_49311_6417.N1	04-AUG-2011 23:14:53	Bright	47.000	28	12Bet Tau	1.6500	15200.	94	49311	No
304	GOM_NL__2PRFIN20110804_231702_000000413105_00159_49311_6418.N1	04-AUG-2011 23:17:02	Twilight	41.000	176	23Zet Tau	3.0200	22000.	82	49311	No
305	GOM_NL__2PRFIN20110804_231944_000000603105_00159_49311_6419.N1	04-AUG-2011 23:19:44	Dark	60.000	13	87Alp Tau	0.86700	3800.0	120	49311	No
306	GOM_NL__2PRFIN20110804_232141_000000433105_00159_49311_6420.N1	04-AUG-2011 23:21:41	Dark	42.500	27	24Gam Ori	1.6360	26000.	85	49311	No
307	GOM_NL__2PRFIN20110804_232336_000000443105_00159_49311_6421.N1	04-AUG-2011 23:23:36	Dark	44.000	30	46Eps Ori	1.6940	30000.	88	49311	No
308	GOM_NL__2PRFIN20110804_232611_000000483105_00159_49311_6422.N1	04-AUG-2011 23:26:11	Dark	48.000	7	19Bet Ori	0.10000	14000.	96	49311	No
309	GOM_NL__2PRFIN20110804_233122_000000623105_00159_49311_6423.N1	04-AUG-2011 23:31:22	Dark	61.500	165	34Gam Eri	2.9500	3200.0	123	49311	No
310	GOM_NL__2PRFIN20110804_234043_000000493105_00160_49312_6421.N1	04-AUG-2011 23:40:43	Dark	49.000	157	The1Eri	2.9060	9300.0	98	49312	No
311	GOM_NL__2PRFIN20110804_234552_000000433105_00160_49312_6422.N1	04-AUG-2011 23:45:52	Dark	42.500	9	Alp Eri	0.45300	24000.	85	49312	No
312	GOM_NL__2PRFIN20110804_235100_000000623105_00160_49312_6423.N1	04-AUG-2011 23:51:00	Straylight	61.500	84	Alp Phe	2.3970	4500.0	123	49312	No
313	GOM_NL__2PRFIN20110804_235549_000000443105_00160_49312_6424.N1	04-AUG-2011 23:55:49	Straylight	43.500	31	Alp Gru	1.7340	15200.	87	49312	No
314	GOM_NL__2PRFIN20110804_235853_000000443105_00160_49312_6425.N1	04-AUG-2011 23:58:53	Straylight	44.000	172	Gam Gru	3.0030	13100.	88	49312	No

3. Quality information per product

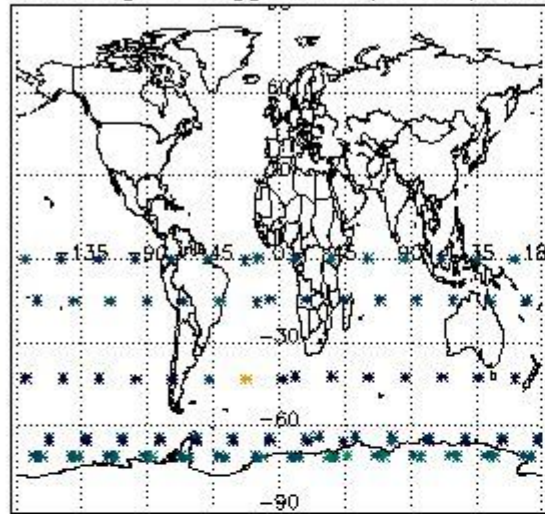
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

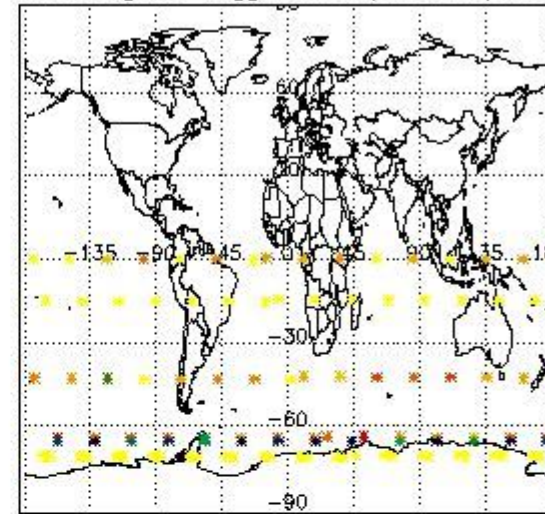


3.2 Plot quality information per product (world map)

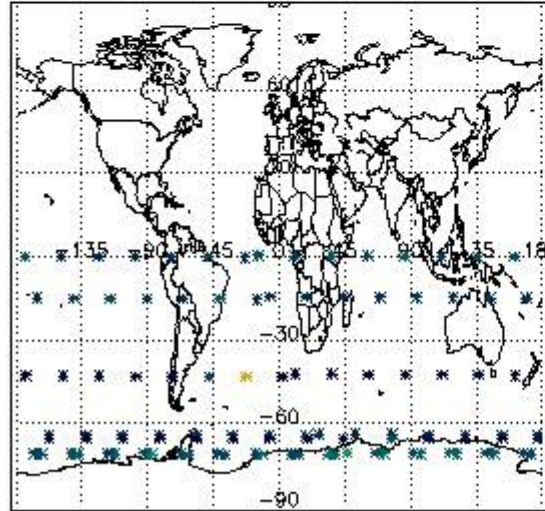
Percentage of flagged data per O3 profile



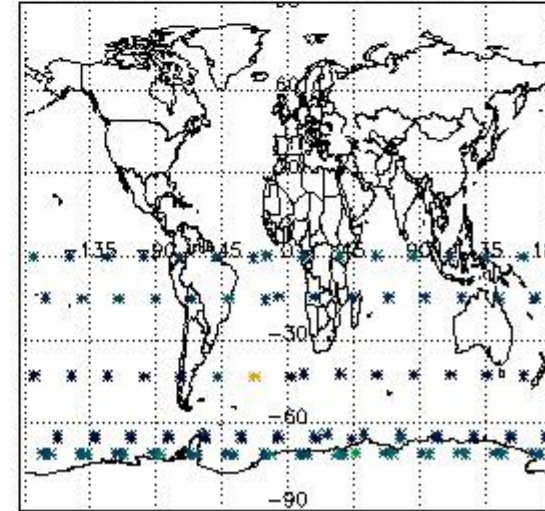
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

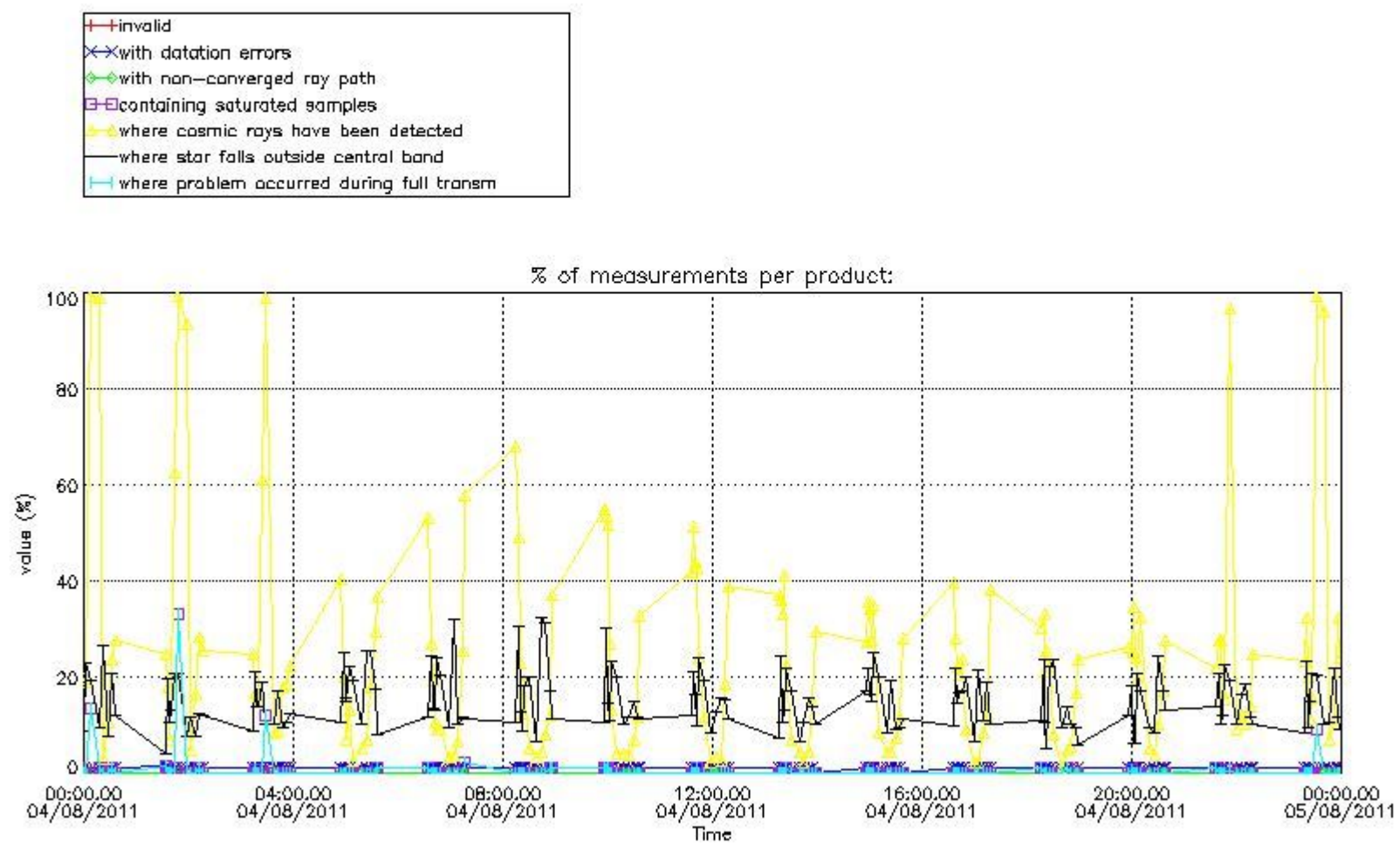


4. Level 1 quality information per product

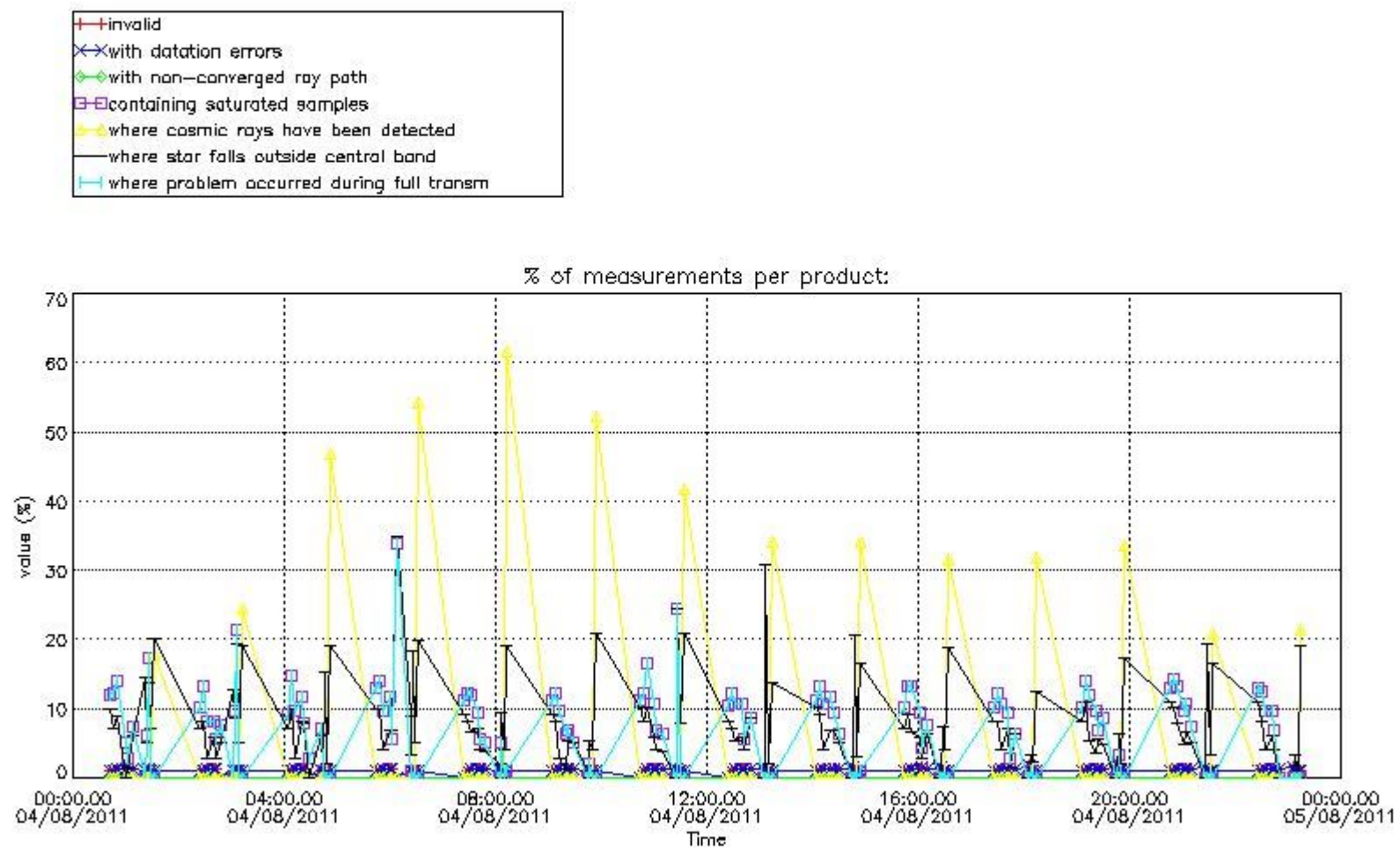
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

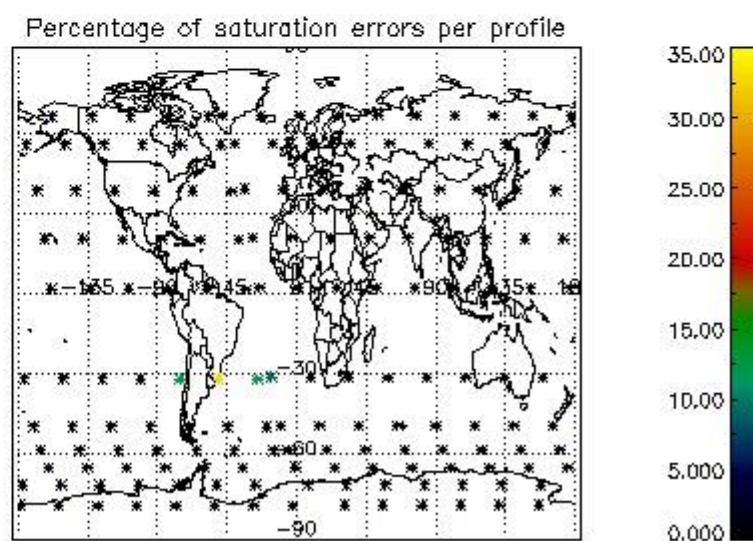
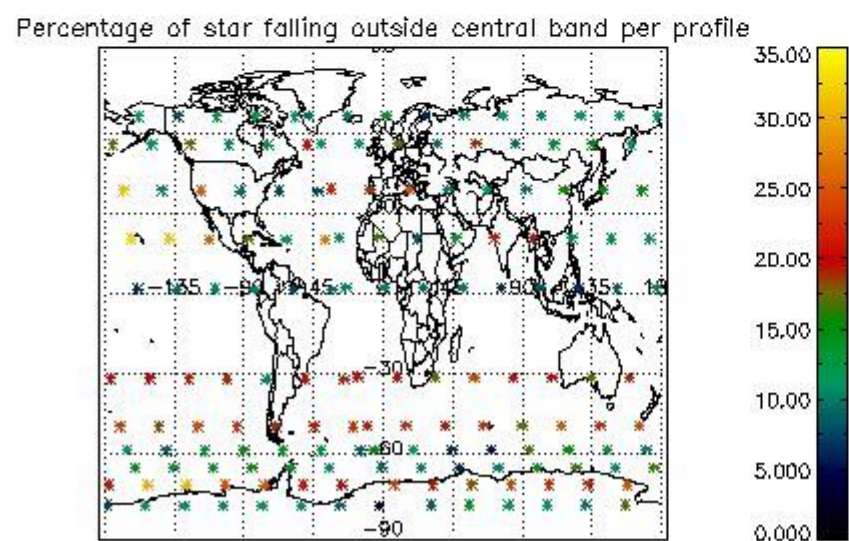
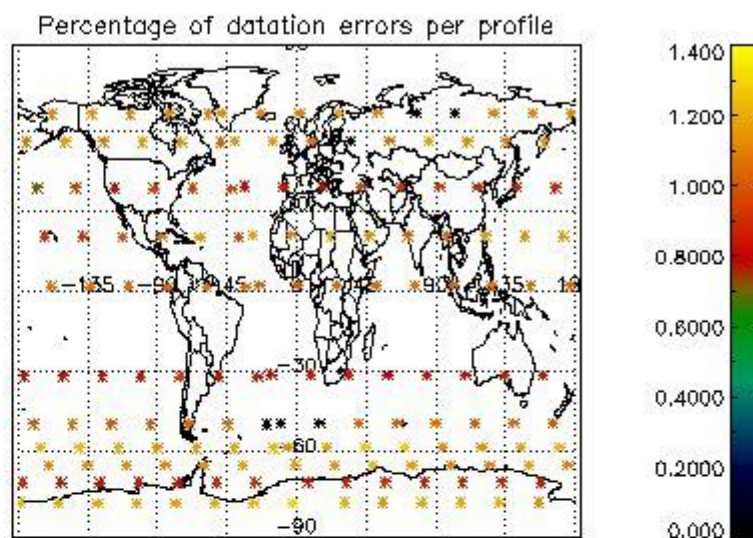
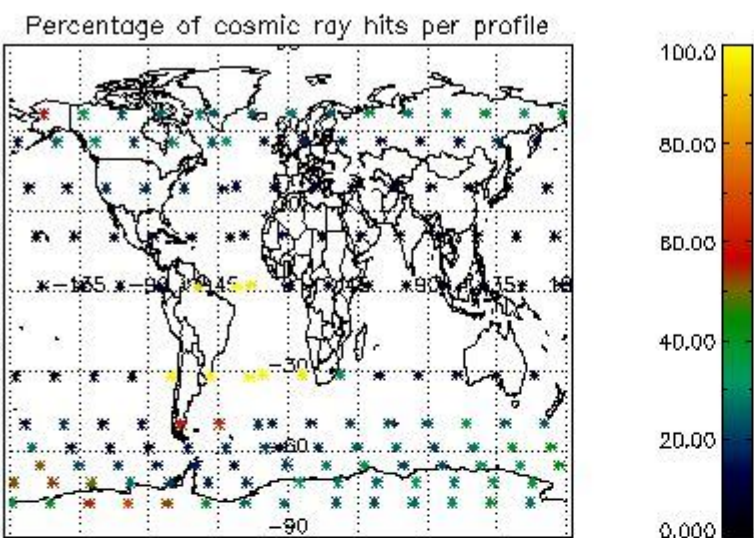


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

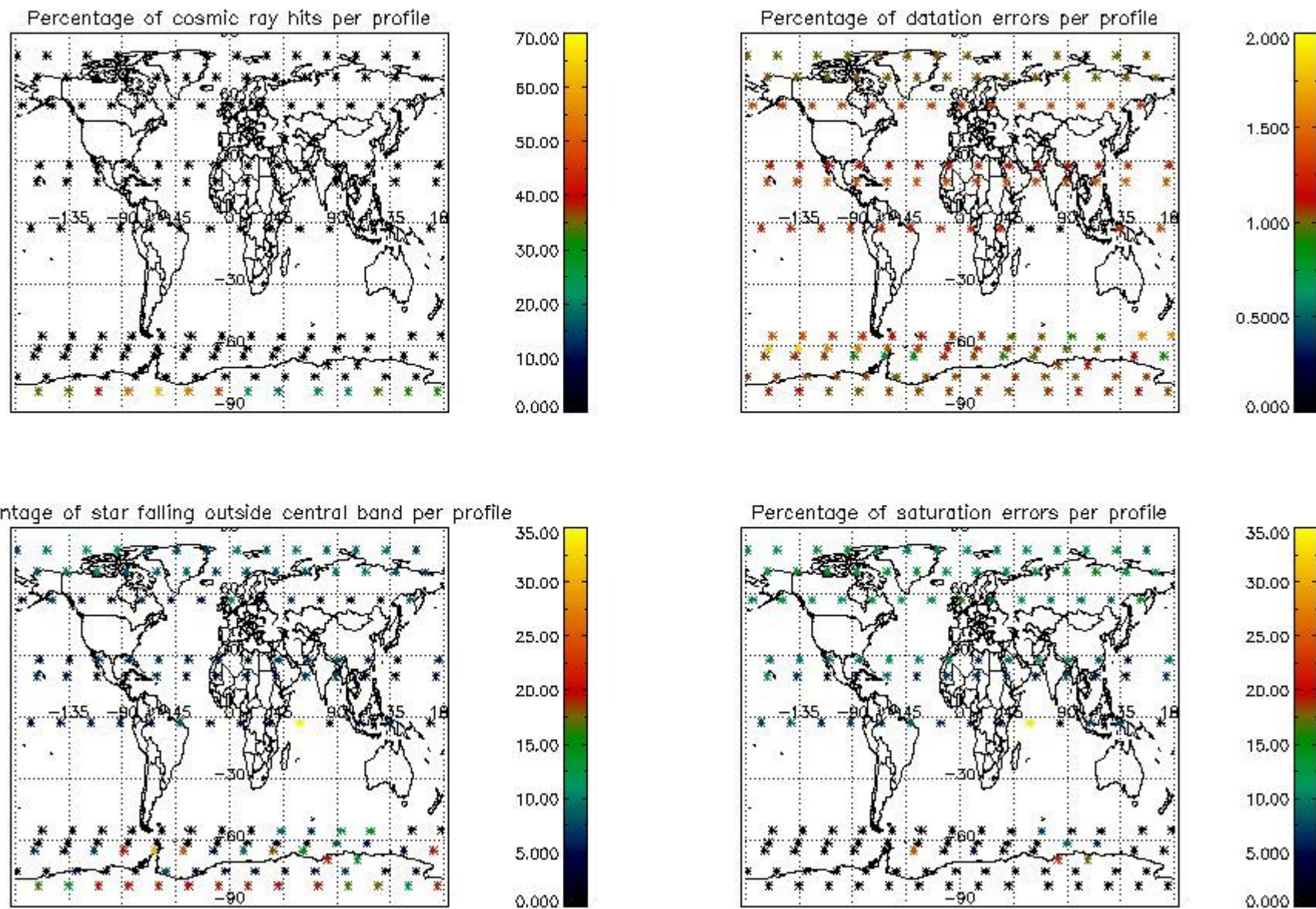


4.2 Plot quality information per product coming from level 1b processing (world map)

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

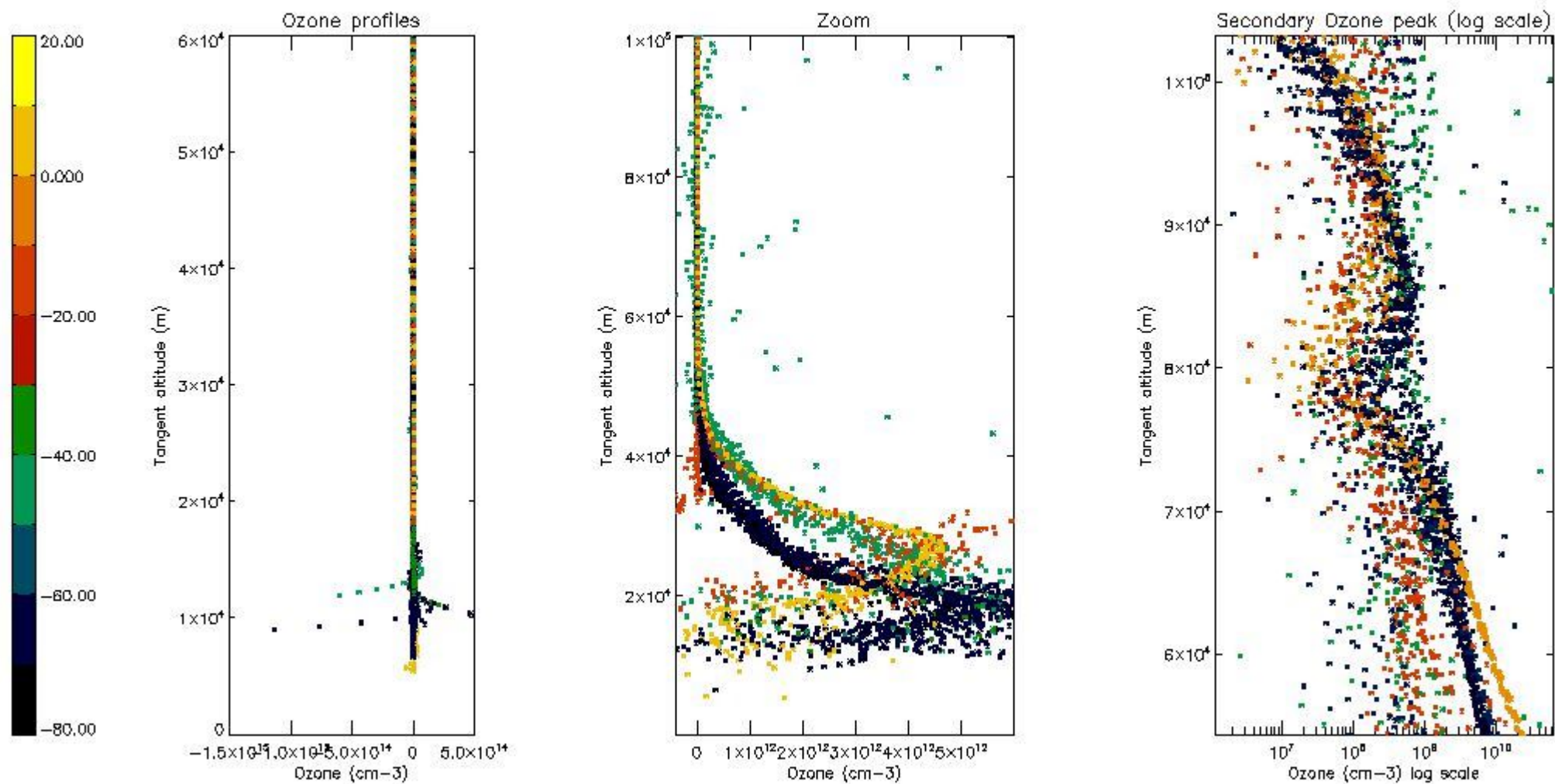
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	18

STD < 10	14
STD < 5	11

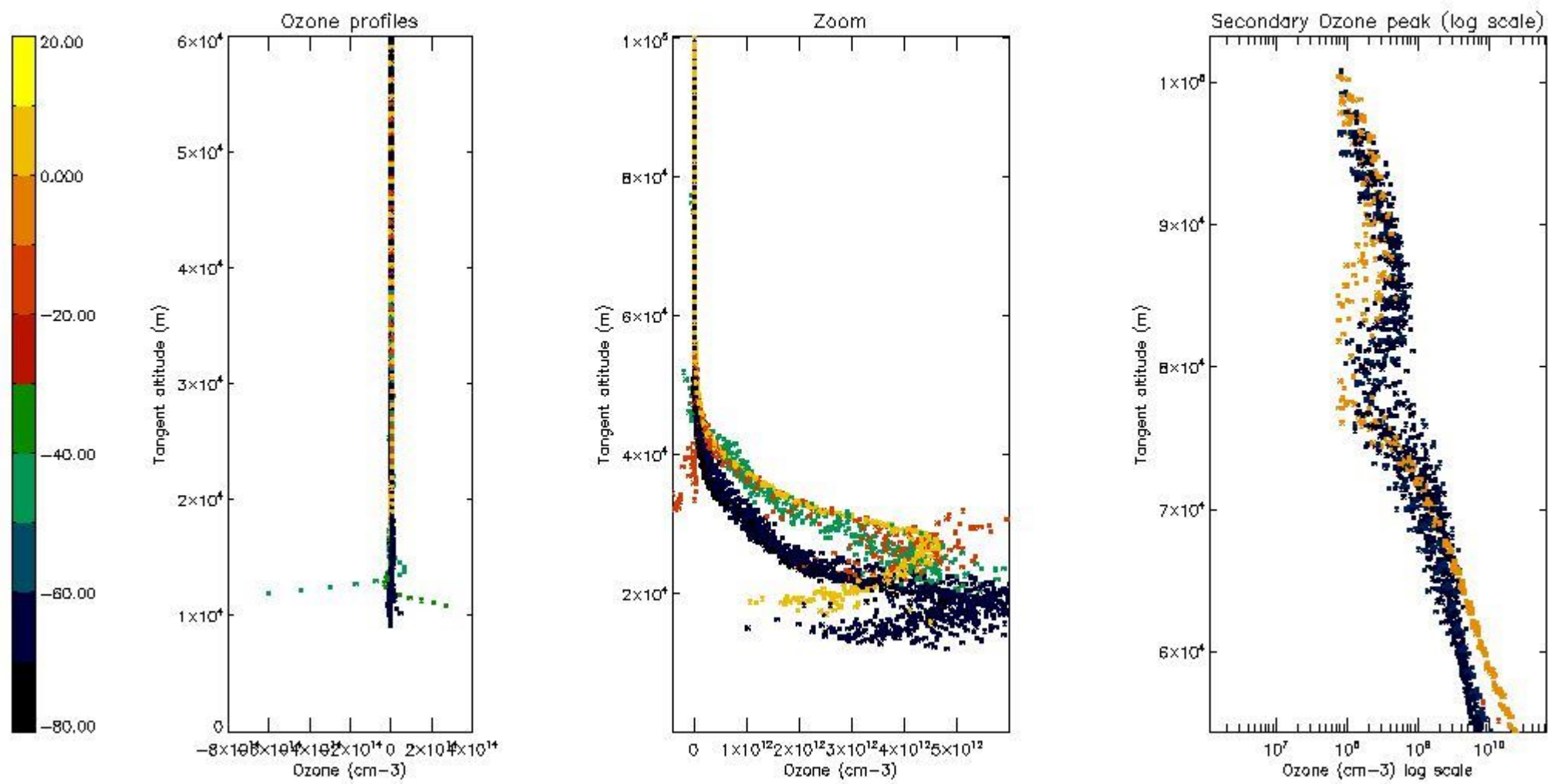
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



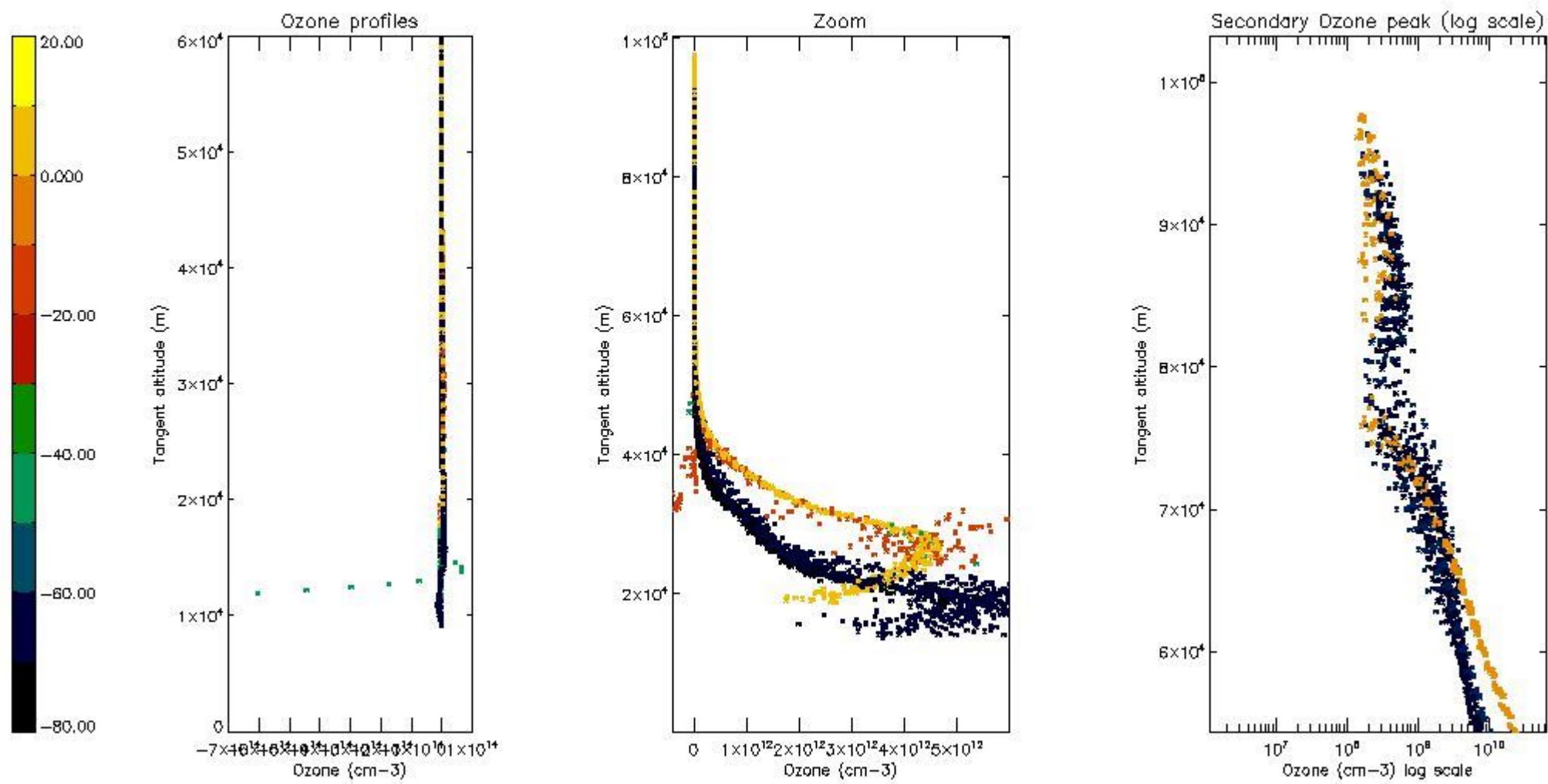
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



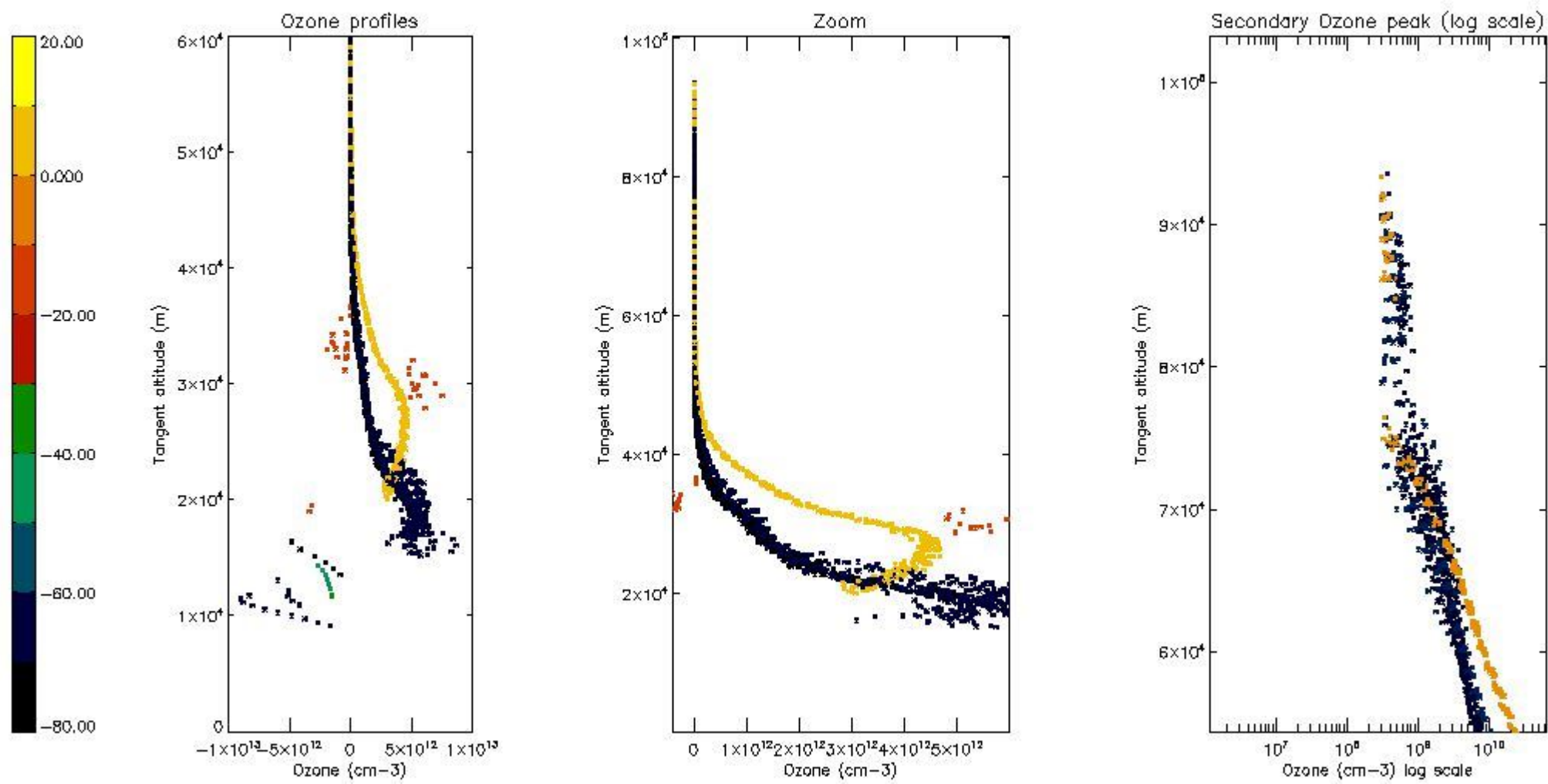
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



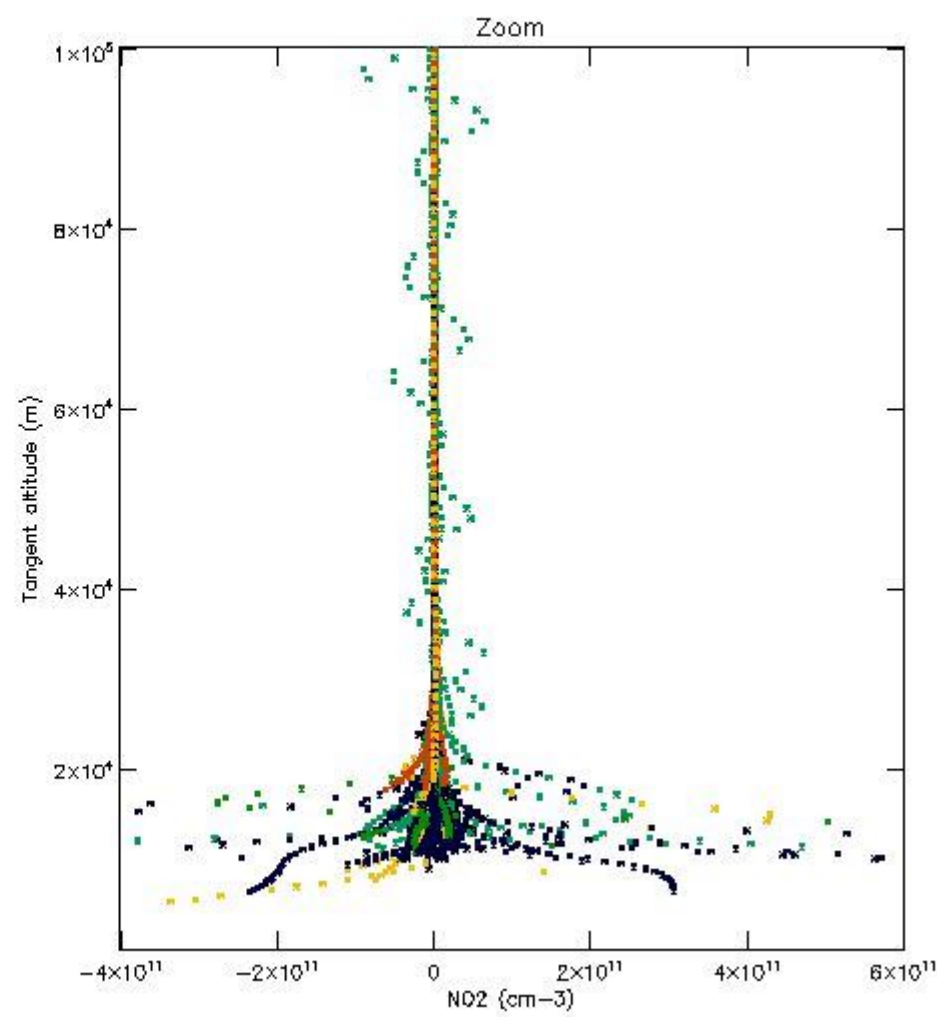
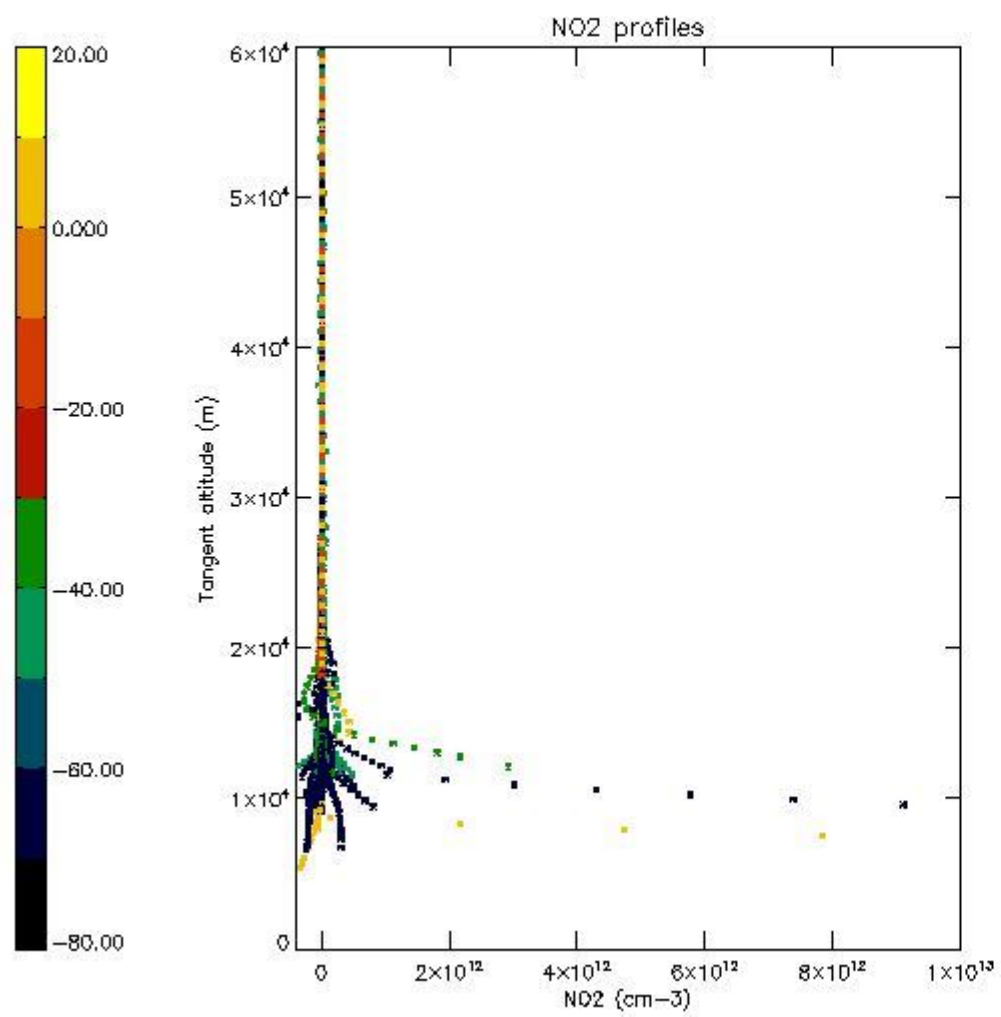
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



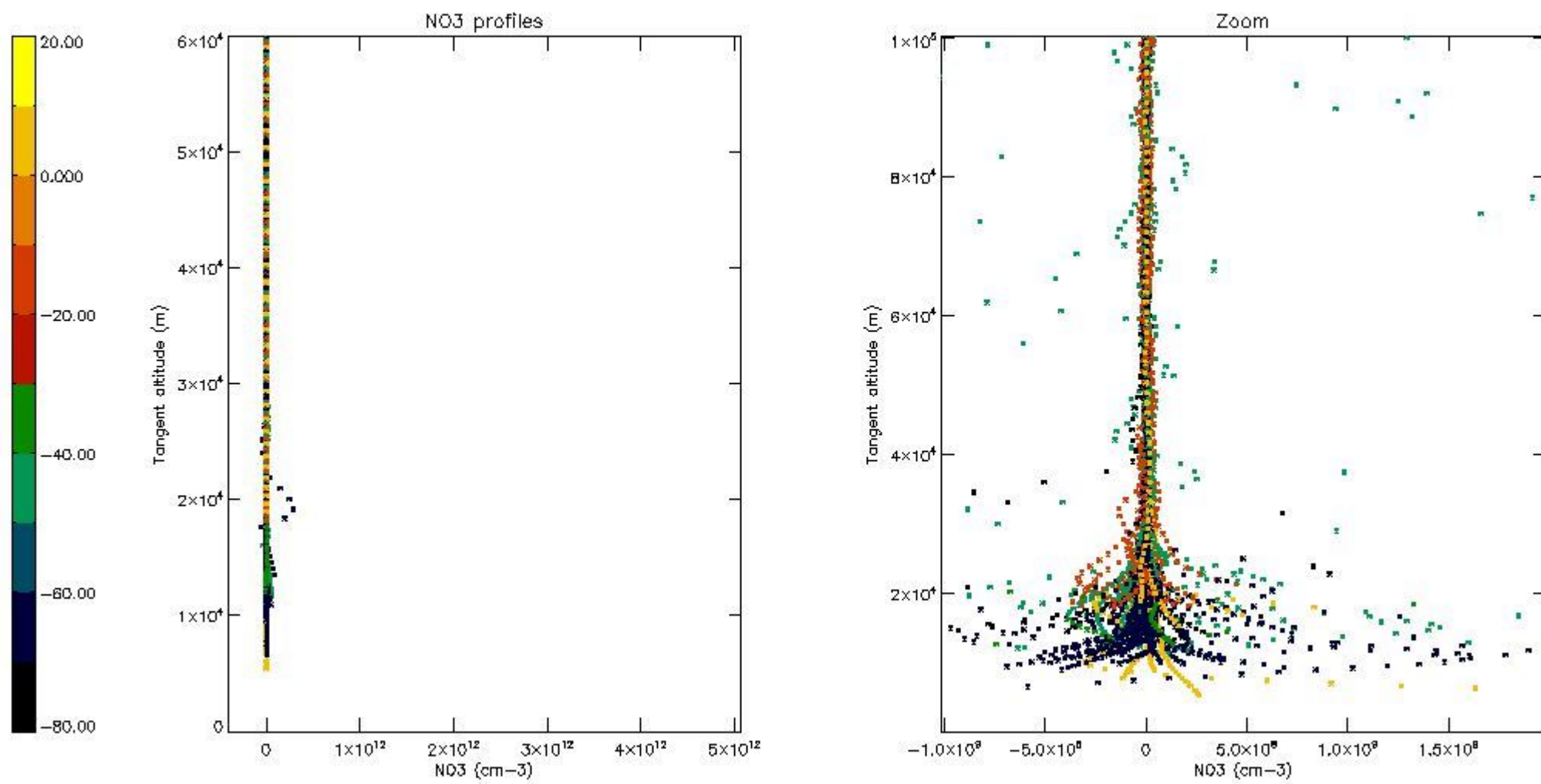
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



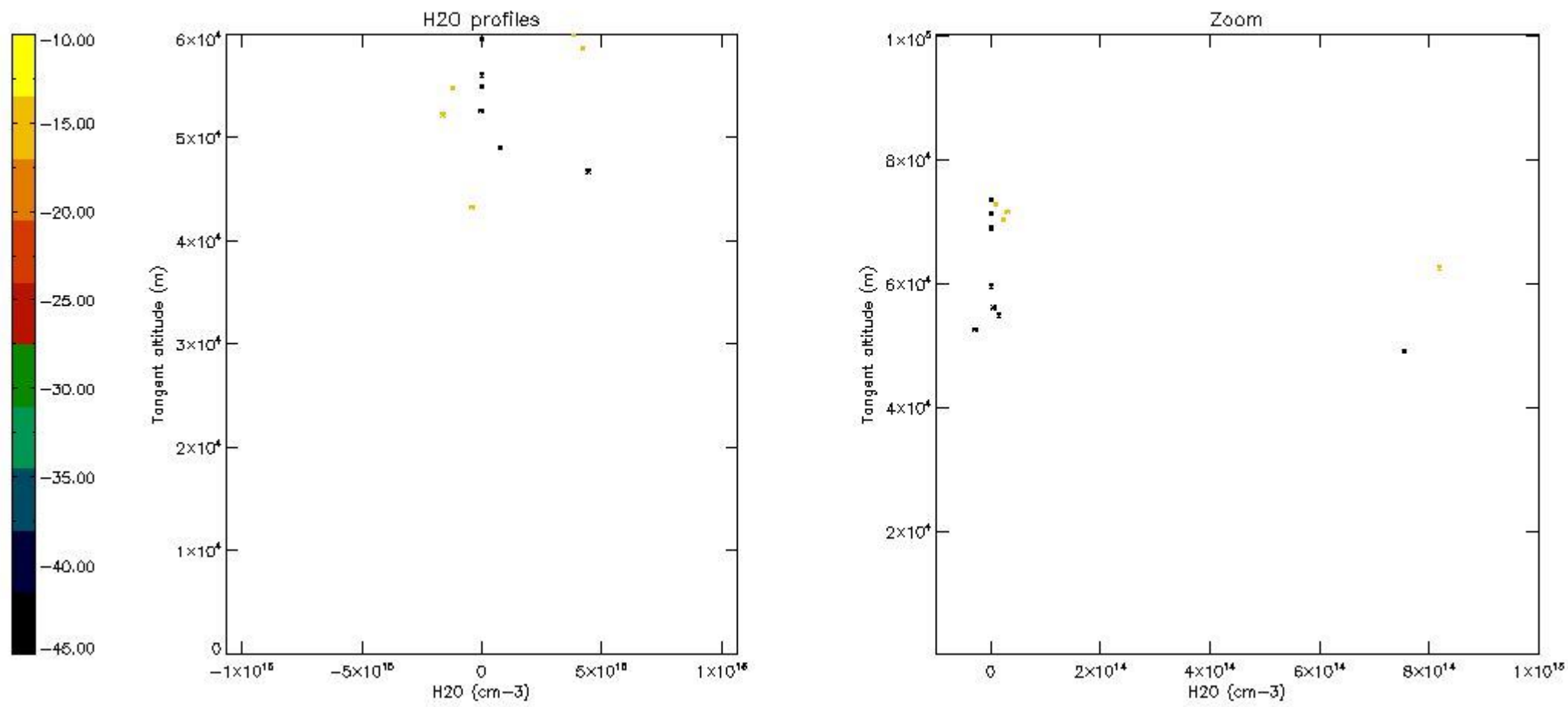
5.7 Plot NO3 profiles for all STD (dark without errors)

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	04-AUG-2011 00:00:15
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-AUG-2011 00:00:15
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-AUG-2011 00:00:15

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 16:30:30
Data source version	GOMOS/6.01
Start time of products	04-08-2011 (04AUG2011 00:00:00)
Stop time of products	05-08-2011 (05AUG2011 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.

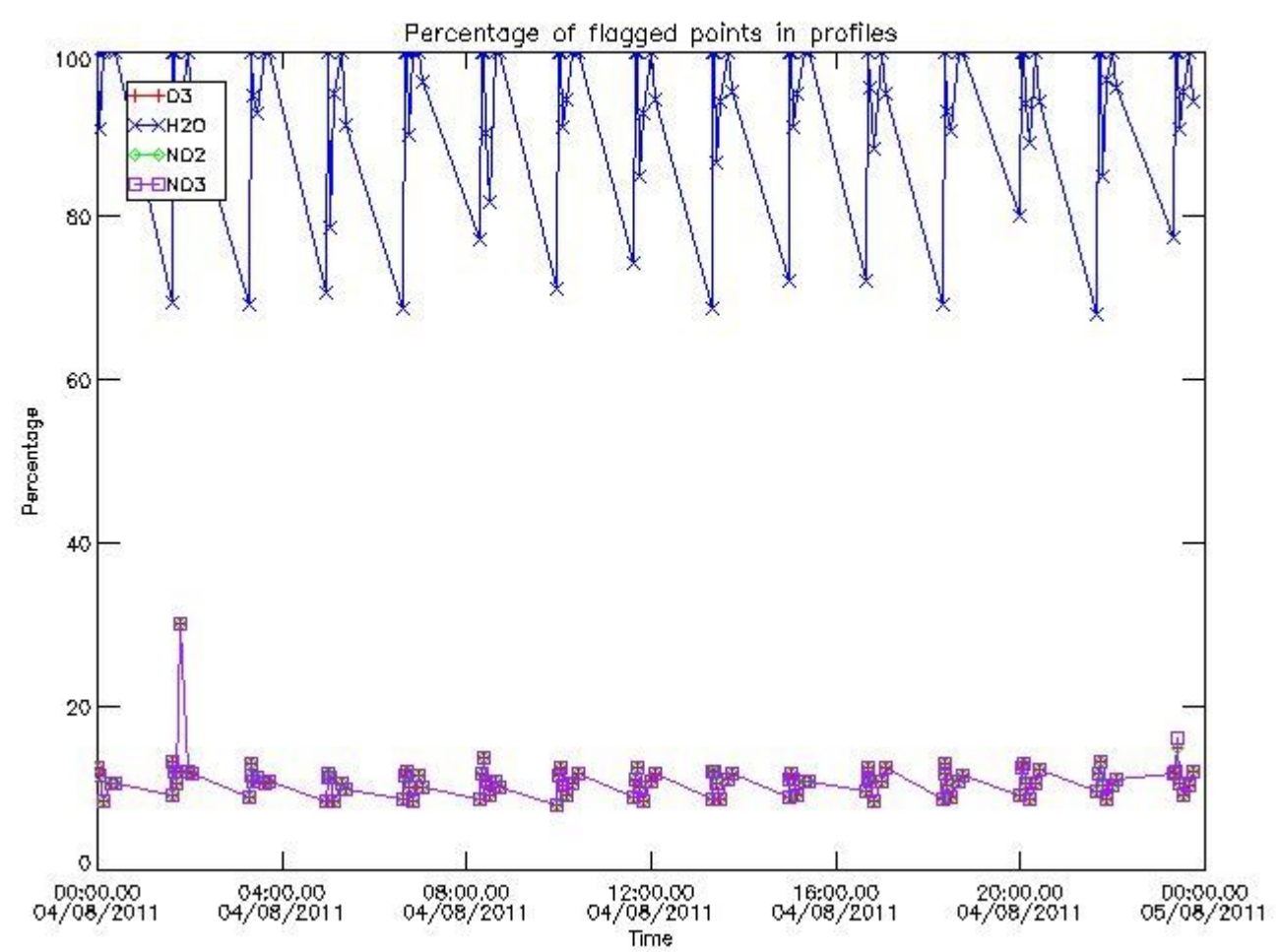
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110804_000015_000000413105_00145_49297_5906.N1	04-AUG-2011 00:00:15	Dark	40.500	30	46Eps Ori	1.6940	30000.	81	49297	No
2	GOM_NL__2PRFIN20110804_000248_000000483105_00145_49297_5907.N1	04-AUG-2011 00:02:48	Dark	48.000	7	19Bet Ori	0.10000	14000.	96	49297	No
3	GOM_NL__2PRFIN20110804_000750_000000603105_00145_49297_5908.N1	04-AUG-2011 00:07:50	Dark	60.000	165	34Gam Eri	2.9500	3200.0	120	49297	No
4	GOM_NL__2PRFIN20110804_001713_000000483105_00146_49298_5897.N1	04-AUG-2011 00:17:13	Dark	48.000	157	The1Eri	2.9060	9300.0	96	49298	No
5	GOM_NL__2PRFIN20110804_002226_000000533105_00146_49298_5898.N1	04-AUG-2011 00:22:26	Dark	52.500	9	Alp Eri	0.45300	24000.	105	49298	No
6	GOM_NL__2PRFIN20110804_002730_000000533105_00146_49298_5899.N1	04-AUG-2011 00:27:30	Straylight	52.500	84	Alp Phe	2.3970	4500.0	105	49298	No
7	GOM_NL__2PRFIN20110804_003226_000000493105_00146_49298_5900.N1	04-AUG-2011 00:32:26	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	49298	No
8	GOM_NL__2PRFIN20110804_003532_000000463105_00146_49298_5901.N1	04-AUG-2011 00:35:32	Straylight	45.500	172	Gam Gru	3.0030	13100.	91	49298	No
9	GOM_NL__2PRFIN20110804_004252_000000513105_00146_49298_5902.N1	04-AUG-2011 00:42:52	Bright	50.500	142	49Del Cap	2.8500	8900.0	101	49298	No
10	GOM_NL__2PRFIN20110804_004649_000000503105_00146_49298_5903.N1	04-AUG-2011 00:46:49	Bright	49.500	154	22Bet Aqr	2.8990	5700.0	99	49298	No
11	GOM_NL__2PRFIN20110804_005052_000000393105_00146_49298_5904.N1	04-AUG-2011 00:50:52	Bright	39.000	11	53Alp Aql	0.76500	8000.0	78	49298	No
12	GOM_NL__2PRFIN20110804_005906_000000403105_00146_49298_5905.N1	04-AUG-2011 00:59:06	Bright	40.000	92	53Eps Cyg	2.5000	4500.0	80	49298	No
13	GOM_NL__2PRFIN20110804_010118_000000353105_00146_49298_5906.N1	04-AUG-2011 01:01:18	Bright	34.500	144	18Del Cyg	2.8600	11000.	69	49298	No
14	GOM_NL__2PRFIN20110804_010739_000000413105_00146_49298_5907.N1	04-AUG-2011 01:07:39	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	49298	No
15	GOM_NL__2PRFIN20110804_012223_000000553105_00146_49298_5908.N1	04-AUG-2011 01:22:23	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	49298	No
16	GOM_NL__2PRFIN20110804_012407_000000493105_00146_49298_5909.N1	04-AUG-2011 01:24:07	Bright	49.000	35	33Alp Per	1.7950	6250.0	98	49298	No
17	GOM_NL__2PRFIN20110804_012628_000000443105_00146_49298_5910.N1	04-AUG-2011 01:26:28	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	49298	No
18	GOM_NL__2PRFIN20110804_012817_000000503105_00146_49298_5911.N1	04-AUG-2011 01:28:17	Bright	50.000	149	45Eps Per	2.8880	30000.	100	49298	No
19	GOM_NL__2PRFIN20110804_013149_000000483105_00146_49298_5912.N1	04-AUG-2011 01:31:49	Bright	47.500	28	12Bet Tau	1.6500	15200.	95	49298	No
20	GOM_NL__2PRFIN20110804_013357_000000393105_00146_49298_5913.N1	04-AUG-2011 01:33:57	Twilight_stray	38.500	176	23Zet Tau	3.0200	22000.	77	49298	No
21	GOM_NL__2PRFIN20110804_013636_000000563105_00146_49298_5914.N1	04-AUG-2011 01:36:36	Dark	56.000	13	87Alp Tau	0.86700	3800.0	112	49298	No
22	GOM_NL__2PRFIN20110804_013834_000000433105_00146_49298_5915.N1	04-AUG-2011 01:38:34	Dark	42.500	27	24Gam Ori	1.6360	26000.	85	49298	No
23	GOM_NL__2PRFIN20110804_014029_000000433105_00146_49298_5916.N1	04-AUG-2011 01:40:29	Dark	42.500	30	46Eps Ori	1.6940	30000.	85	49298	No
24	GOM_NL__2PRFIN20110804_014303_000000483105_00146_49298_5917.N1	04-AUG-2011 01:43:03	Dark	48.000	7	19Bet Ori	0.10000	14000.	96	49298	No
25	GOM_NL__2PRFIN20110804_014805_000000613105_00146_49298_5918.N1	04-AUG-2011 01:48:05	Dark	60.500	165	34Gam Eri	2.9500	3200.0	121	49298	No
26	GOM_NL__2PRFIN20110804_015728_000000473105_00147_49299_5977.N1	04-AUG-2011 01:57:28	Dark	46.500	157	The1Eri	2.9060	9300.0	93	49299	No
27	GOM_NL__2PRFIN20110804_020241_000000443105_00147_49299_5978.N1	04-AUG-2011 02:02:41	Dark	43.500	9	Alp Eri	0.45300	24000.	87	49299	No
28	GOM_NL__2PRFIN20110804_020745_000000533105_00147_49299_5979.N1	04-AUG-2011 02:07:45	Straylight	52.500	84	Alp Phe	2.3970	4500.0	105	49299	No
29	GOM_NL__2PRFIN20110804_021241_000000443105_00147_49299_5980.N1	04-AUG-2011 02:12:41	Straylight	44.000	31	Alp Gru	1.7340	15200.	88	49299	No
30	GOM_NL__2PRFIN20110804_021546_000000463105_00147_49299_5981.N1	04-AUG-2011 02:15:46	Straylight	45.500	172	Gam Gru	3.0030	13100.	91	49299	No
31	GOM_NL__2PRFIN20110804_022306_000000503105_00147_49299_5982.N1	04-AUG-2011 02:23:06	Bright	49.500	142	49Del Cap	2.8500	8900.0	99	49299	No
32	GOM_NL__2PRFIN20110804_022703_000000503105_00147_49299_5983.N1	04-AUG-2011 02:27:03	Bright	49.500	154	22Bet Aqr	2.8990	5700.0	99	49299	No
33	GOM_NL__2PRFIN20110804_023106_000000373105_00147_49299_5984.N1	04-AUG-2011 02:31:06	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	49299	No
34	GOM_NL__2PRFIN20110804_023919_000000433105_00147_49299_5985.N1	04-AUG-2011 02:39:19	Bright	42.500	92	53Eps Cyg	2.5000	4500.0	85	49299	No
35	GOM_NL__2PRFIN20110804_024131_000000363105_00147_49299_5986.N1	04-AUG-2011 02:41:31	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	49299	No
36	GOM_NL__2PRFIN20110804_024753_000000403105_00147_49299_5987.N1	04-AUG-2011 02:47:53	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	49299	No
37	GOM_NL__2PRFIN20110804_030237_000000553105_00147_49299_5988.N1	04-AUG-2011 03:02:37	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	49299	No
38	GOM_NL__2PRFIN20110804_030421_000000523105_00147_49299_5989.N1	04-AUG-2011 03:04:21	Bright	51.500	35	33Alp Per	1.7950	6250.0	103	49299	No
39	GOM_NL__2PRFIN20110804_030642_000000473105_00147_49299_5990.N1	04-AUG-2011 03:06:42	Bright	46.500	6	13Alp Aur	0.080000	3400.0	93	49299	No
40	GOM_NL__2PRFIN20110804_030831_000000493105_00147_49299_5991.N1	04-AUG-2011 03:08:31	Bright	49.000	149	45Eps Per	2.8880	30000.	98	49299	No
41	GOM_NL__2PRFIN20110804_031204_000000473105_00147_49299_5992.N1	04-AUG-2011 03:12:04	Bright	47.000	28	12Bet Tau	1.6500	15200.	94	49299	No
42	GOM_NL__2PRFIN20110804_031411_000000413105_00147_49299_5993.N1	04-AUG-2011 03:14:11	Twilight_stray	40.500	176	23Zet Tau	3.0200	22000.	81	49299	No

279	GOM_NL__2PRFIN20110804_212506_000000313105_00158_49310_6390.N1	04-AUG-2011 21:25:06	Twilight	31.000	160	23Gam Per	2.9300	4700.0	62	49310	No
280	GOM_NL__2PRFIN20110804_212757_000000573105_00158_49310_6391.N1	04-AUG-2011 21:27:57	Bright	56.500	175	39Del Per	3.0100	19400.	113	49310	No
281	GOM_NL__2PRFIN20110804_213104_000000473105_00158_49310_6392.N1	04-AUG-2011 21:31:04	Bright	47.000	149	45Eps Per	2.8880	30000.	94	49310	No
282	GOM_NL__2PRFIN20110804_213439_000000463105_00158_49310_6393.N1	04-AUG-2011 21:34:39	Bright	45.500	28	12Bet Tau	1.6500	15200.	91	49310	No
283	GOM_NL__2PRFIN20110804_213648_000000443105_00158_49310_6394.N1	04-AUG-2011 21:36:48	Twilight	43.500	176	23Zet Tau	3.0200	22000.	87	49310	No
284	GOM_NL__2PRFIN20110804_213929_000000583105_00158_49310_6395.N1	04-AUG-2011 21:39:29	Dark	58.000	13	87Alp Tau	0.86700	3800.0	116	49310	No
285	GOM_NL__2PRFIN20110804_214127_000000443105_00158_49310_6396.N1	04-AUG-2011 21:41:27	Dark	43.500	27	24Gam Ori	1.6360	26000.	87	49310	No
286	GOM_NL__2PRFIN20110804_214322_000000423105_00158_49310_6397.N1	04-AUG-2011 21:43:22	Dark	42.000	30	46Eps Ori	1.6940	30000.	84	49310	No
287	GOM_NL__2PRFIN20110804_214557_000000493105_00158_49310_6398.N1	04-AUG-2011 21:45:57	Dark	49.000	7	19Bet Ori	0.10000	14000.	98	49310	No
288	GOM_NL__2PRFIN20110804_215106_000000603105_00158_49310_6399.N1	04-AUG-2011 21:51:06	Dark	59.500	165	34Gam Eri	2.9500	3200.0	119	49310	No
289	GOM_NL__2PRFIN20110804_220028_000000493105_00159_49311_6403.N1	04-AUG-2011 22:00:28	Dark	49.000	157	The1Eri	2.9060	9300.0	98	49311	No
290	GOM_NL__2PRFIN20110804_220537_000000463105_00159_49311_6404.N1	04-AUG-2011 22:05:37	Dark	45.500	9	Alp Eri	0.45300	24000.	91	49311	No
291	GOM_NL__2PRFIN20110804_221045_000000593105_00159_49311_6405.N1	04-AUG-2011 22:10:45	Straylight	59.000	84	Alp Phe	2.3970	4500.0	118	49311	No
292	GOM_NL__2PRFIN20110804_221534_000000433105_00159_49311_6406.N1	04-AUG-2011 22:15:34	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	49311	No
293	GOM_NL__2PRFIN20110804_221839_000000453105_00159_49311_6407.N1	04-AUG-2011 22:18:39	Straylight	44.500	172	Gam Gru	3.0030	13100.	89	49311	No
294	GOM_NL__2PRFIN20110804_222555_000000503105_00159_49311_6408.N1	04-AUG-2011 22:25:55	Bright	50.000	142	49Del Cap	2.8500	8900.0	100	49311	No
295	GOM_NL__2PRFIN20110804_222949_000000493105_00159_49311_6409.N1	04-AUG-2011 22:29:49	Bright	48.500	154	22Bet Aqr	2.8990	5700.0	97	49311	No
296	GOM_NL__2PRFIN20110804_223354_000000373105_00159_49311_6410.N1	04-AUG-2011 22:33:54	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	49311	No
297	GOM_NL__2PRFIN20110804_224202_000000423105_00159_49311_6411.N1	04-AUG-2011 22:42:02	Bright	41.500	92	53Eps Cyg	2.5000	4500.0	83	49311	No
298	GOM_NL__2PRFIN20110804_224418_000000363105_00159_49311_6412.N1	04-AUG-2011 22:44:18	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	49311	No
299	GOM_NL__2PRFIN20110804_225036_000000373105_00159_49311_6413.N1	04-AUG-2011 22:50:36	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	49311	No
300	GOM_NL__2PRFIN20110804_230520_000000313105_00159_49311_6414.N1	04-AUG-2011 23:05:20	Twilight	31.000	160	23Gam Per	2.9300	4700.0	62	49311	No
301	GOM_NL__2PRFIN20110804_230811_000000453105_00159_49311_6415.N1	04-AUG-2011 23:08:11	Bright	45.000	175	39Del Per	3.0100	19400.	90	49311	No
302	GOM_NL__2PRFIN20110804_231118_000000473105_00159_49311_6416.N1	04-AUG-2011 23:11:18	Bright	47.000	149	45Eps Per	2.8880	30000.	94	49311	No
303	GOM_NL__2PRFIN20110804_231453_000000473105_00159_49311_6417.N1	04-AUG-2011 23:14:53	Bright	47.000	28	12Bet Tau	1.6500	15200.	94	49311	No
304	GOM_NL__2PRFIN20110804_231702_000000413105_00159_49311_6418.N1	04-AUG-2011 23:17:02	Twilight	41.000	176	23Zet Tau	3.0200	22000.	82	49311	No
305	GOM_NL__2PRFIN20110804_231944_000000603105_00159_49311_6419.N1	04-AUG-2011 23:19:44	Dark	60.000	13	87Alp Tau	0.86700	3800.0	120	49311	No
306	GOM_NL__2PRFIN20110804_232141_000000433105_00159_49311_6420.N1	04-AUG-2011 23:21:41	Dark	42.500	27	24Gam Ori	1.6360	26000.	85	49311	No
307	GOM_NL__2PRFIN20110804_232336_000000443105_00159_49311_6421.N1	04-AUG-2011 23:23:36	Dark	44.000	30	46Eps Ori	1.6940	30000.	88	49311	No
308	GOM_NL__2PRFIN20110804_232611_000000483105_00159_49311_6422.N1	04-AUG-2011 23:26:11	Dark	48.000	7	19Bet Ori	0.10000	14000.	96	49311	No
309	GOM_NL__2PRFIN20110804_233122_000000623105_00159_49311_6423.N1	04-AUG-2011 23:31:22	Dark	61.500	165	34Gam Eri	2.9500	3200.0	123	49311	No
310	GOM_NL__2PRFIN20110804_234043_000000493105_00160_49312_6421.N1	04-AUG-2011 23:40:43	Dark	49.000	157	The1Eri	2.9060	9300.0	98	49312	No
311	GOM_NL__2PRFIN20110804_234552_000000433105_00160_49312_6422.N1	04-AUG-2011 23:45:52	Dark	42.500	9	Alp Eri	0.45300	24000.	85	49312	No
312	GOM_NL__2PRFIN20110804_235100_000000623105_00160_49312_6423.N1	04-AUG-2011 23:51:00	Straylight	61.500	84	Alp Phe	2.3970	4500.0	123	49312	No
313	GOM_NL__2PRFIN20110804_235549_000000443105_00160_49312_6424.N1	04-AUG-2011 23:55:49	Straylight	43.500	31	Alp Gru	1.7340	15200.	87	49312	No
314	GOM_NL__2PRFIN20110804_235853_000000443105_00160_49312_6425.N1	04-AUG-2011 23:58:53	Straylight	44.000	172	Gam Gru	3.0030	13100.	88	49312	No

3. Quality information per product

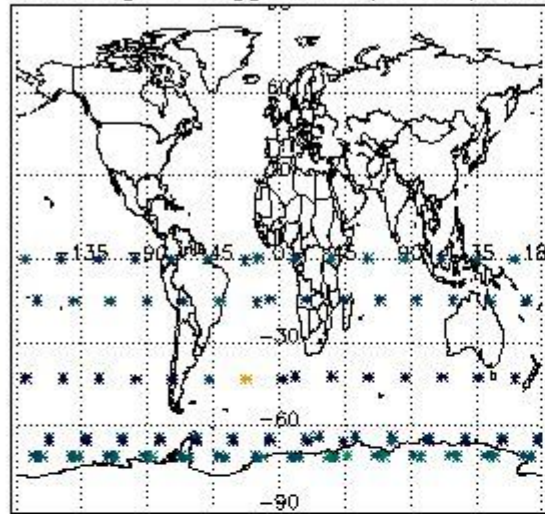
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

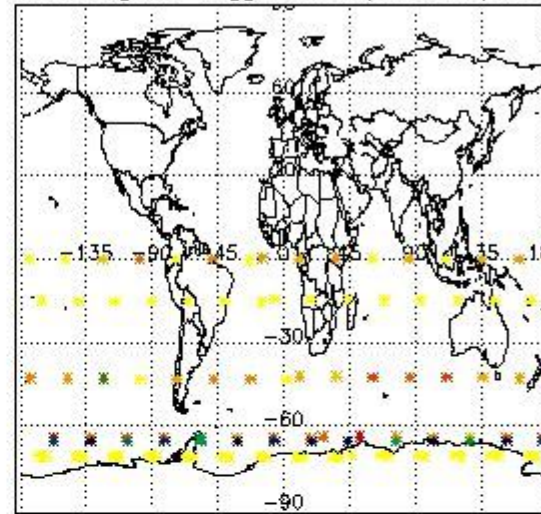


3.2 Plot quality information per product (world map)

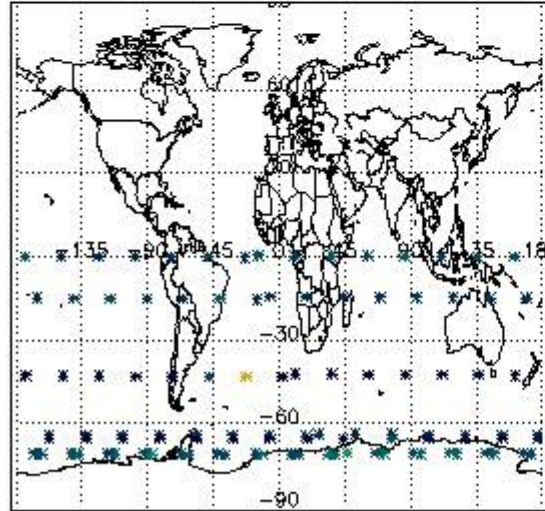
Percentage of flagged data per O3 profile



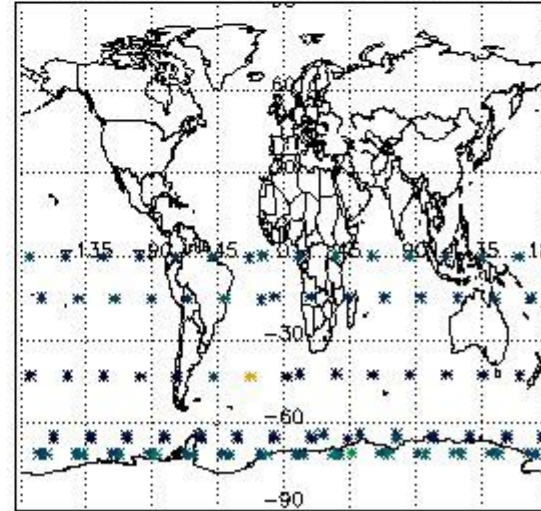
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

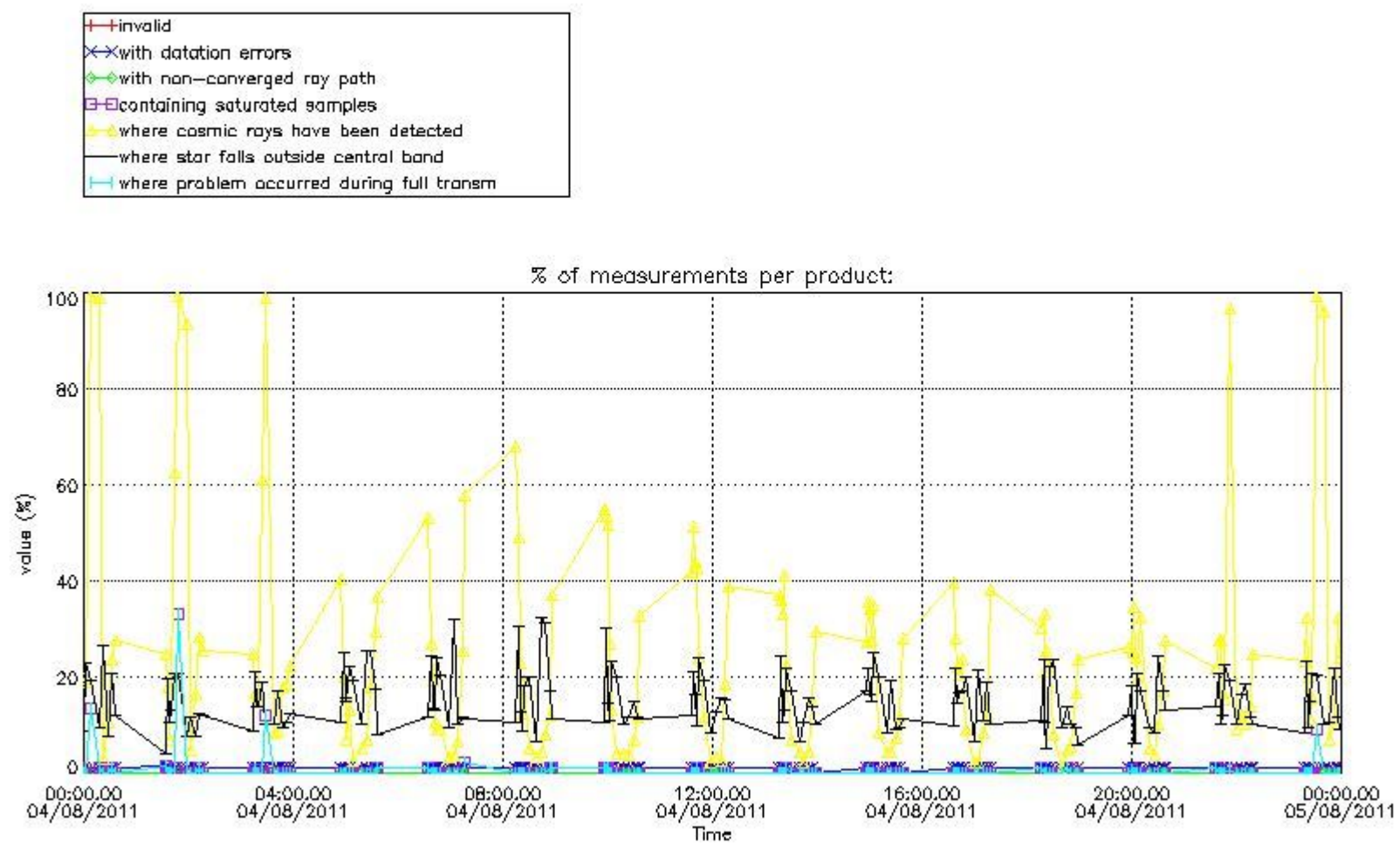


4. Level 1 quality information per product

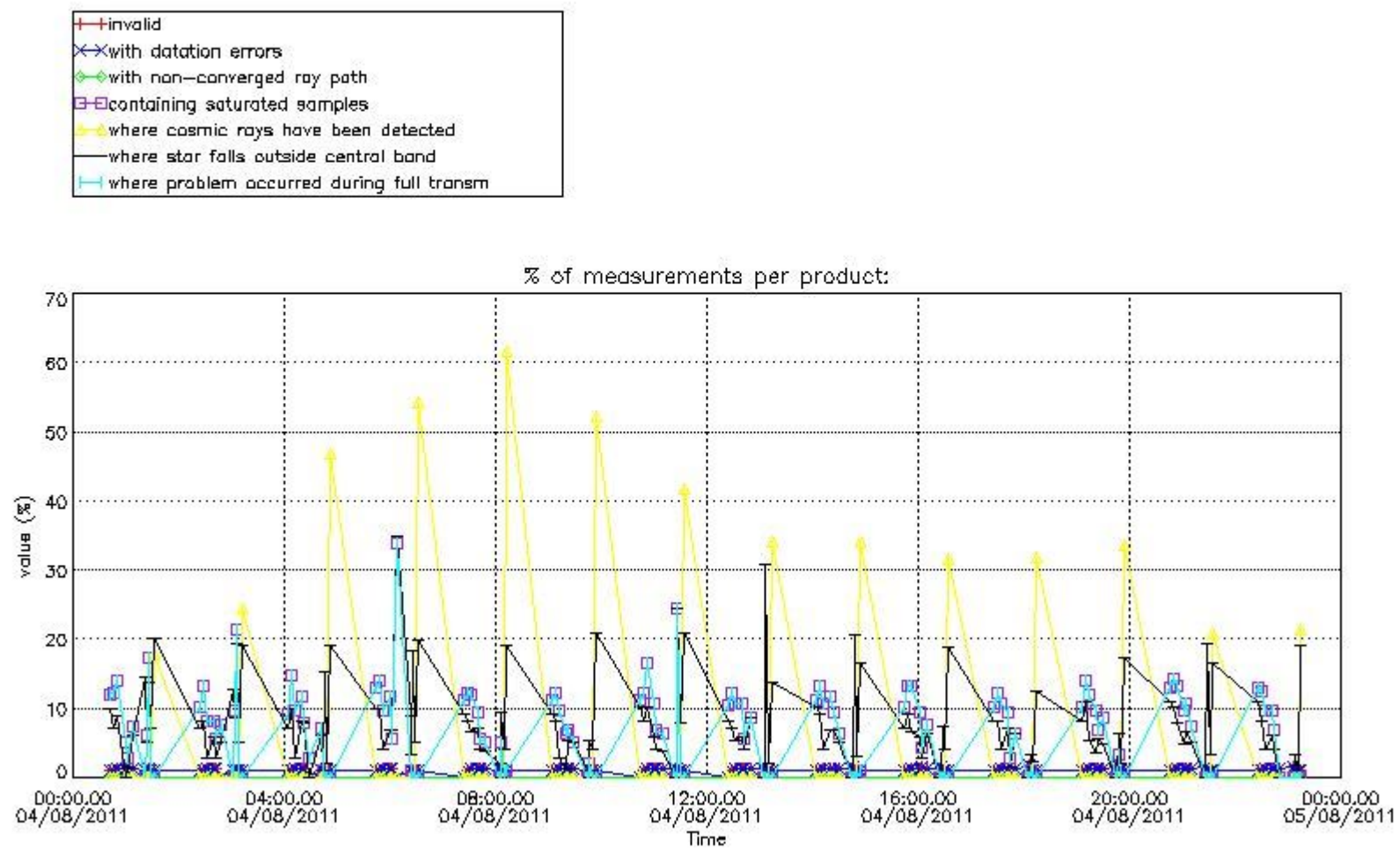
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

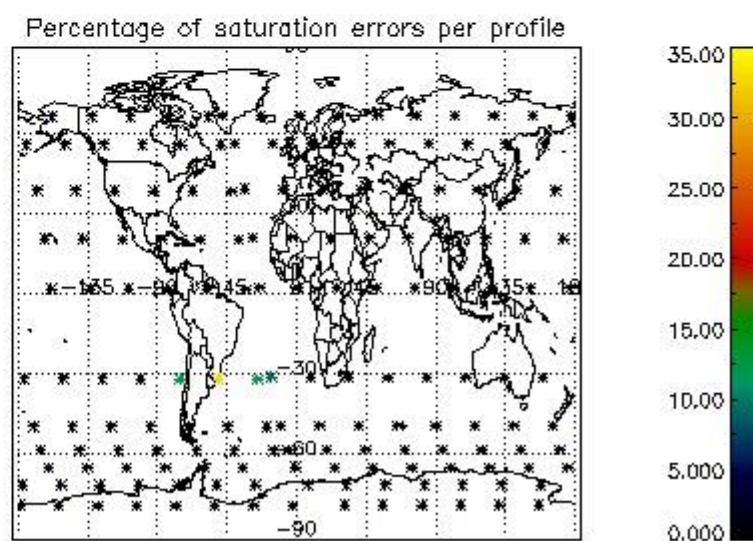
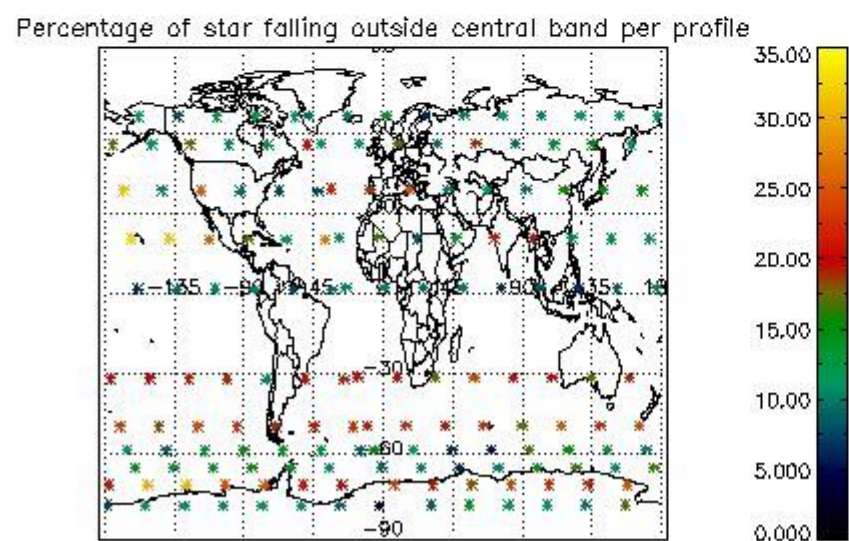
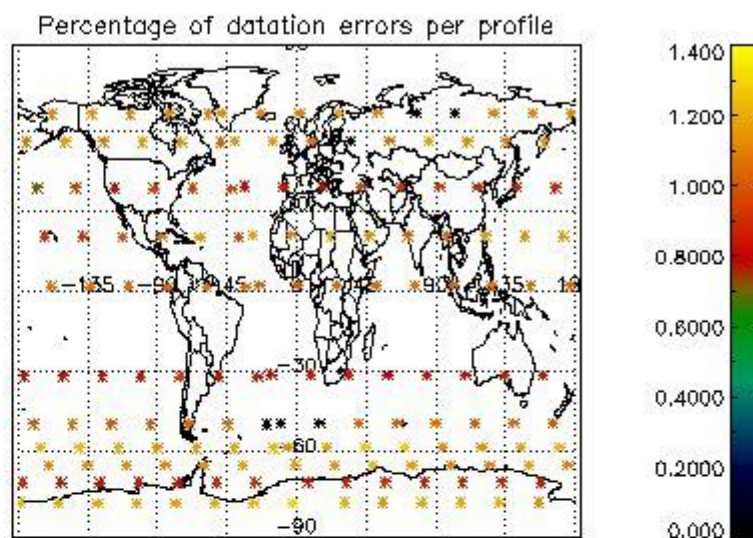
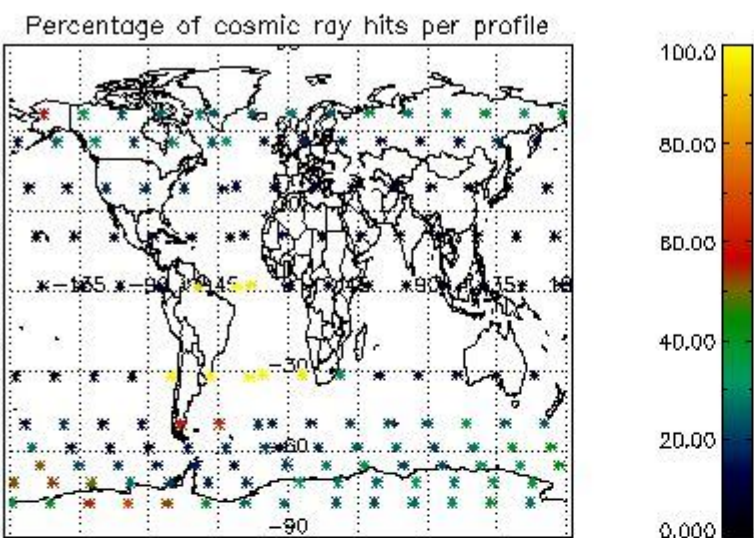


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

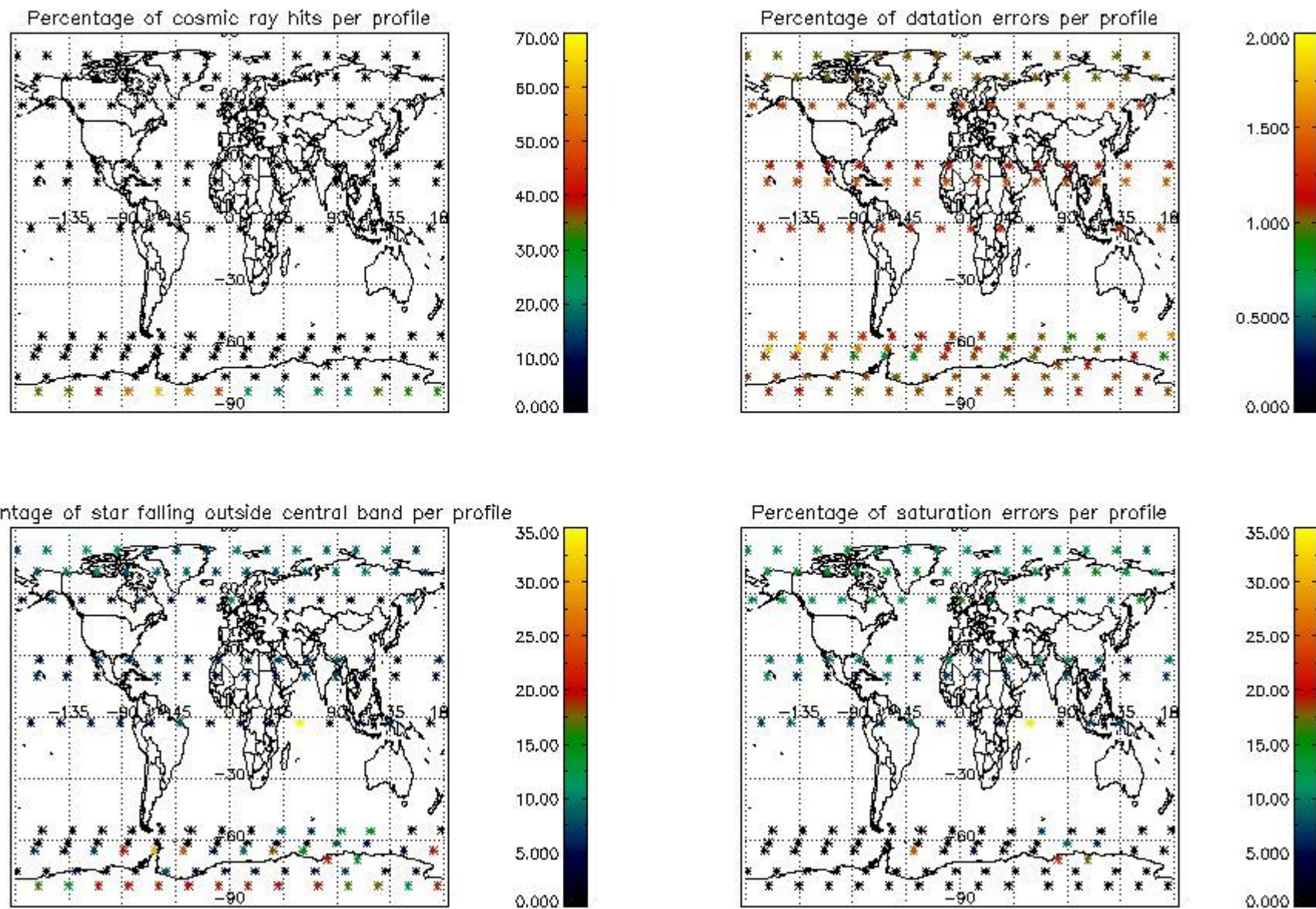


4.2 Plot quality information per product coming from level 1b processing (world map)

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

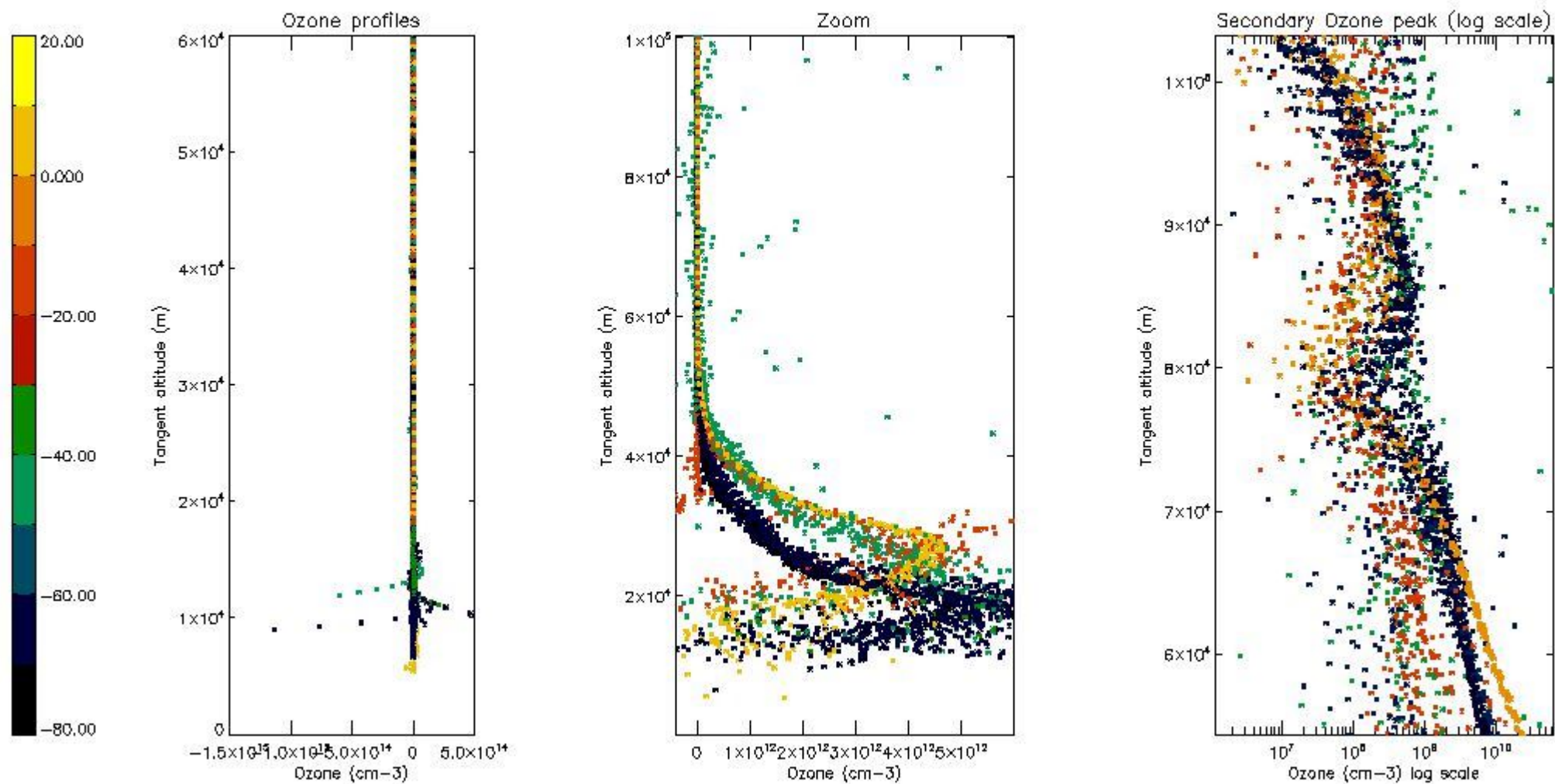
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	18

STD < 10	14
STD < 5	11

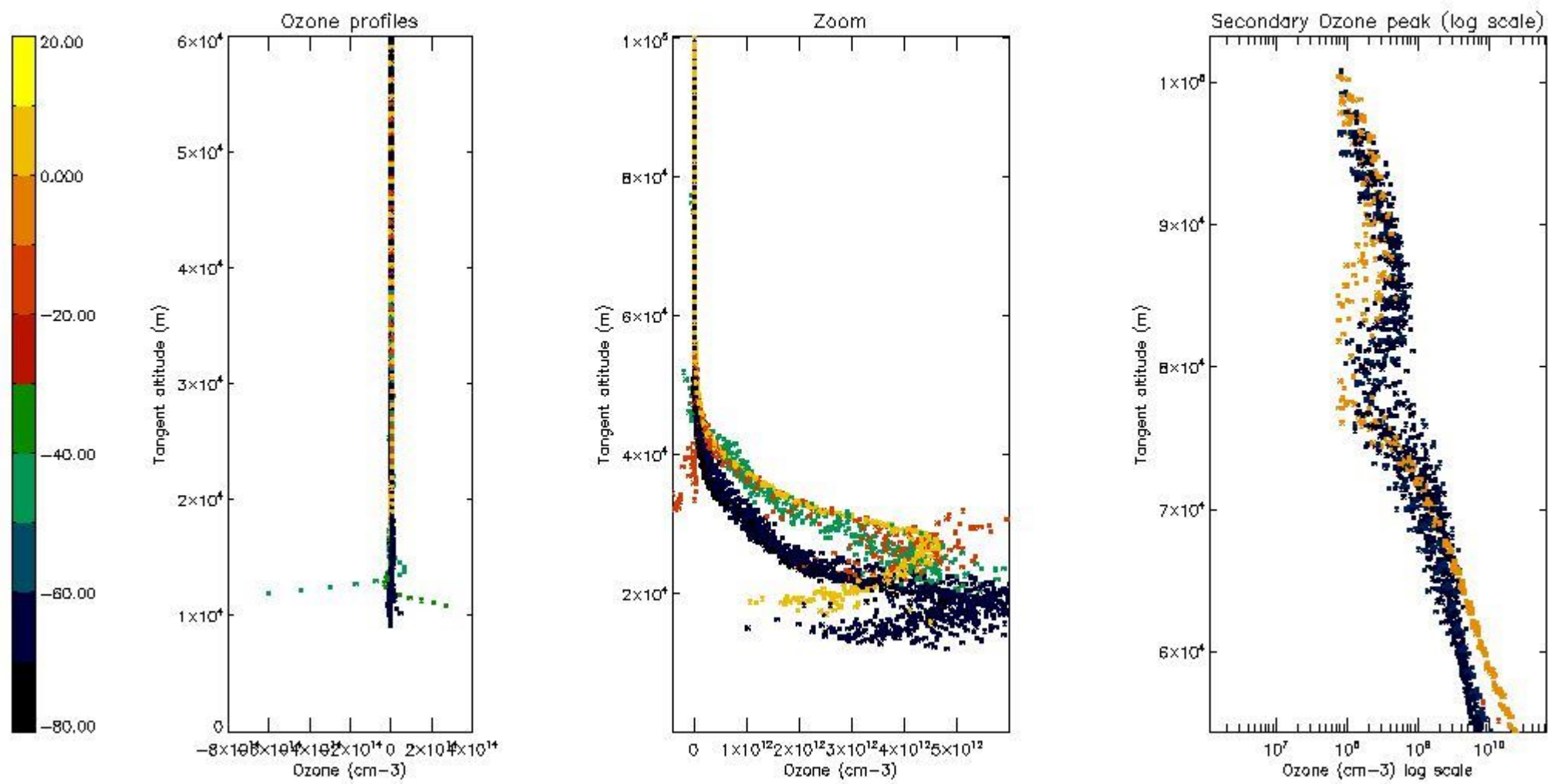
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



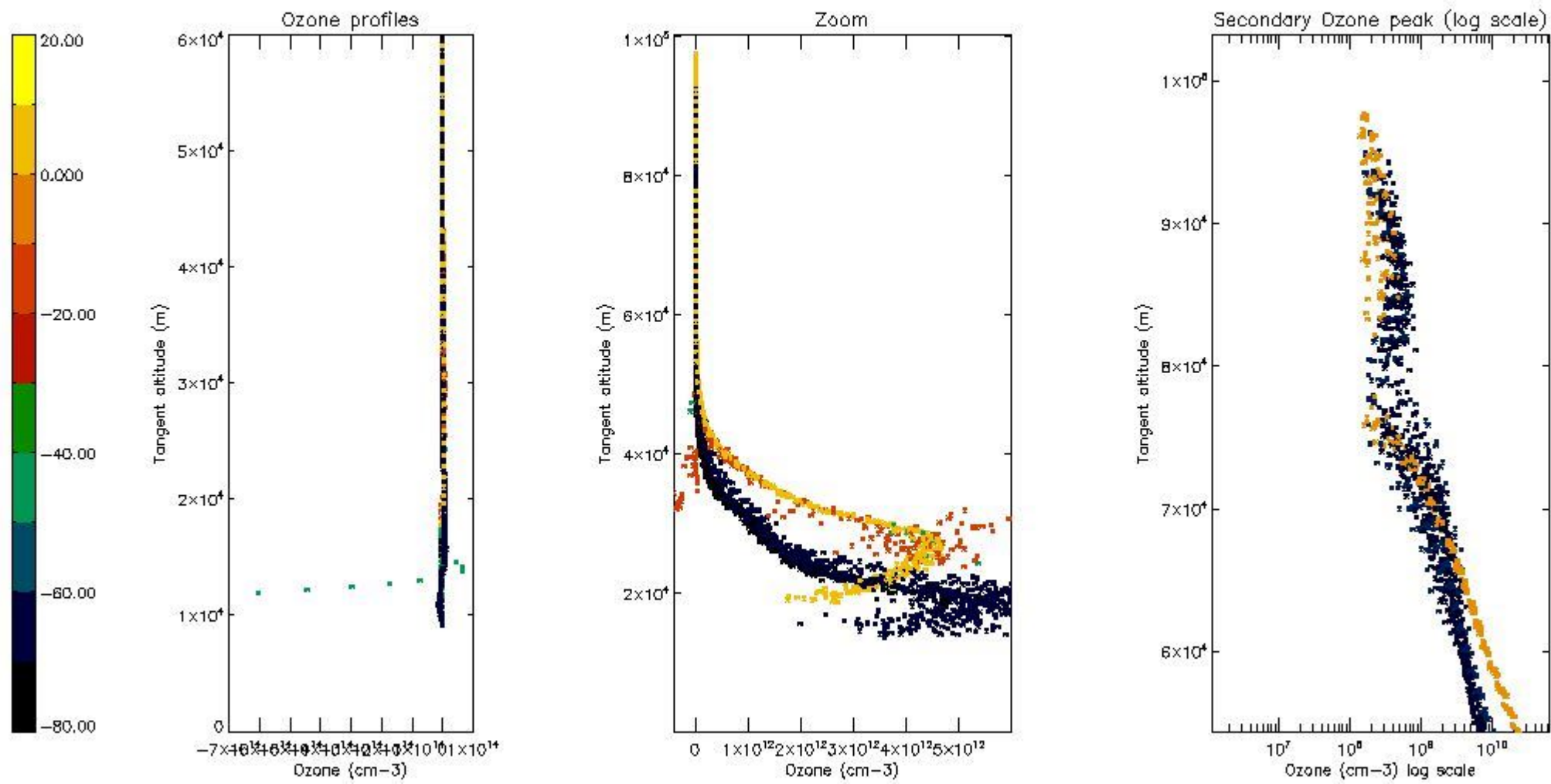
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



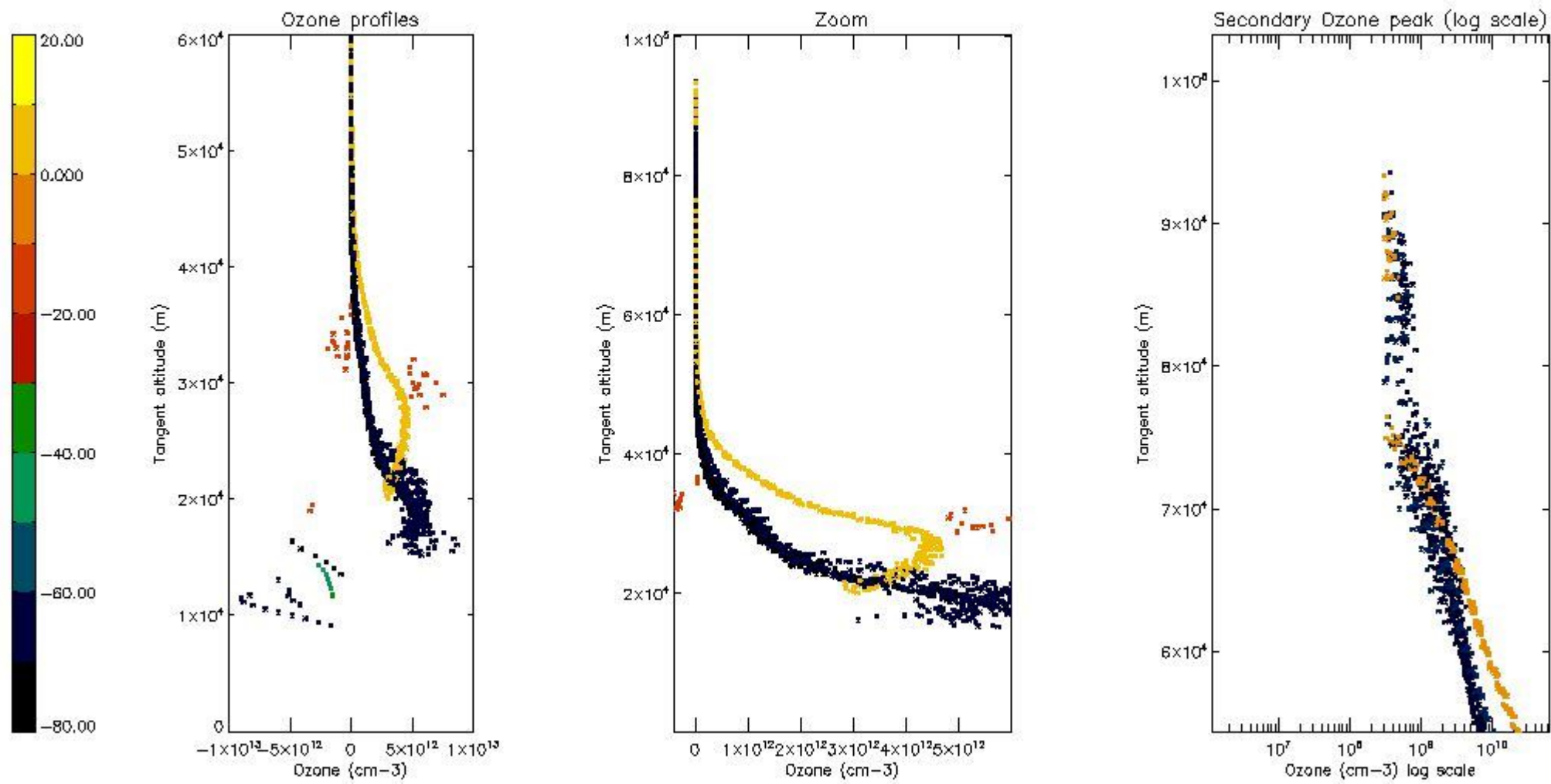
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



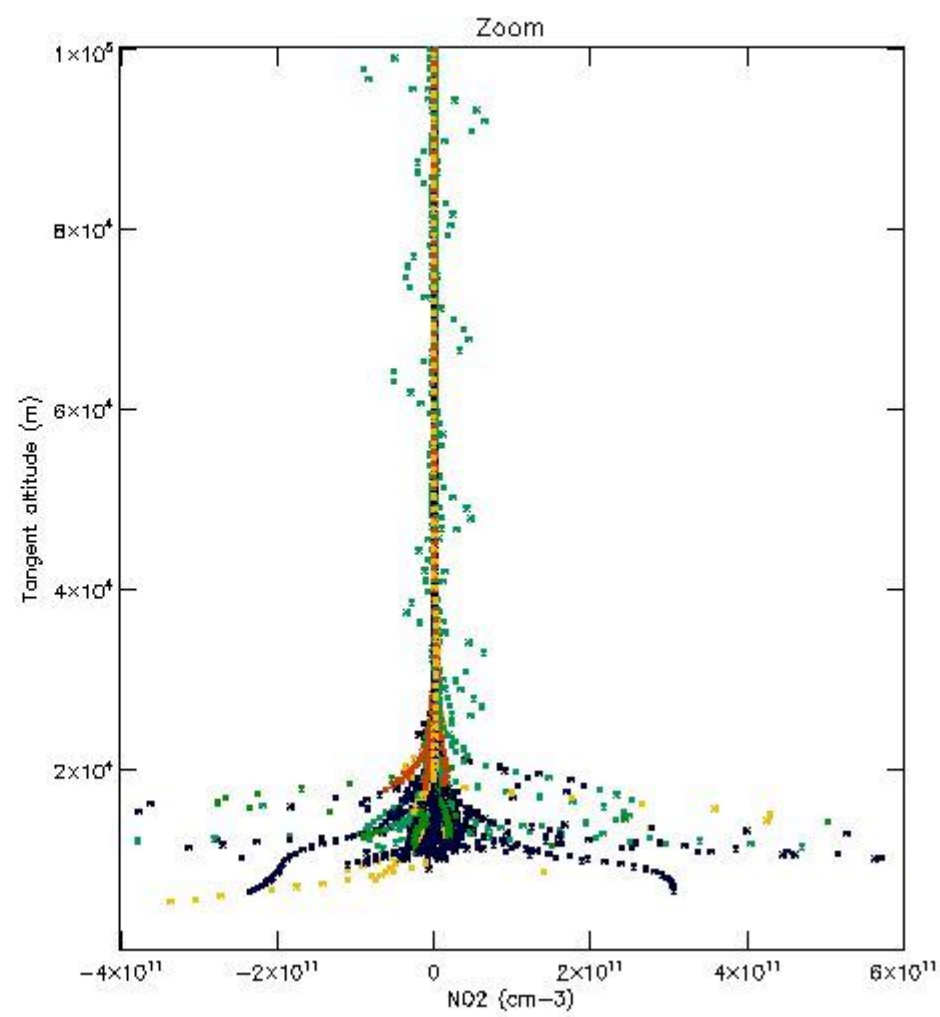
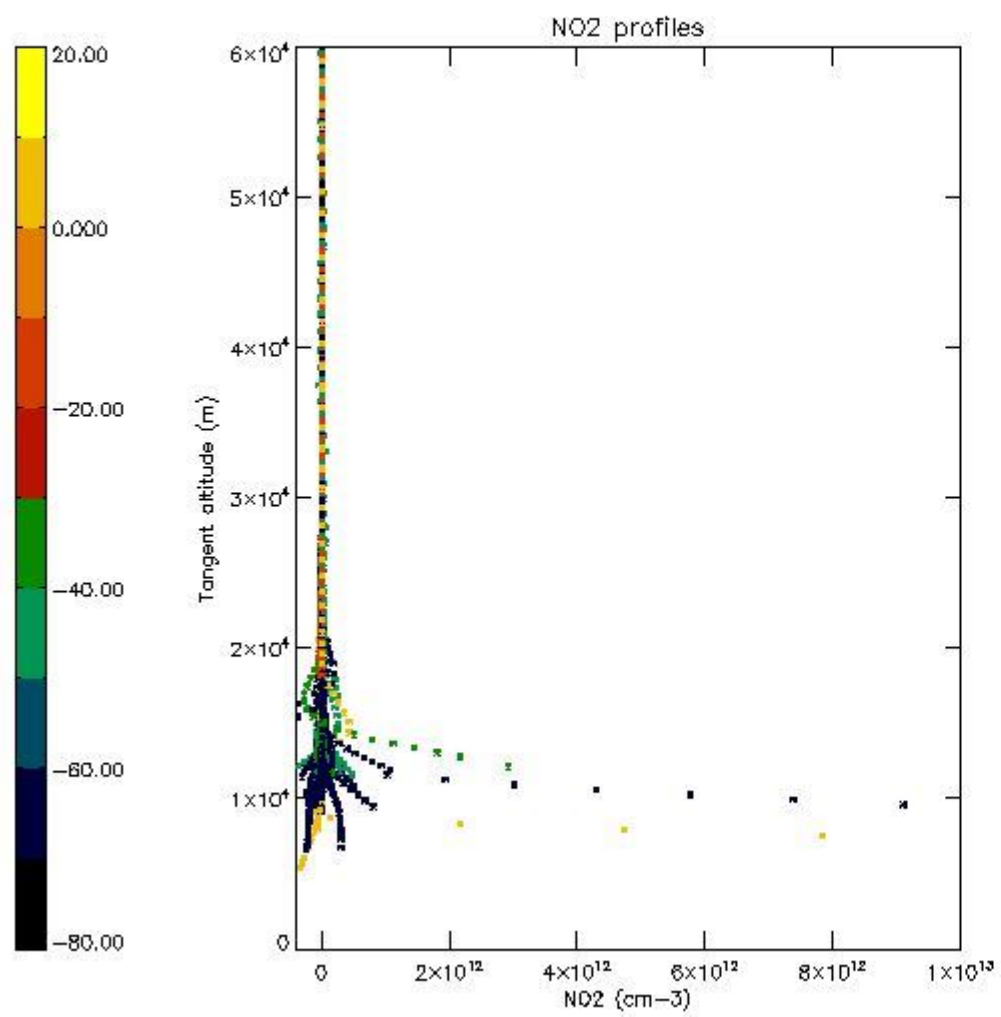
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



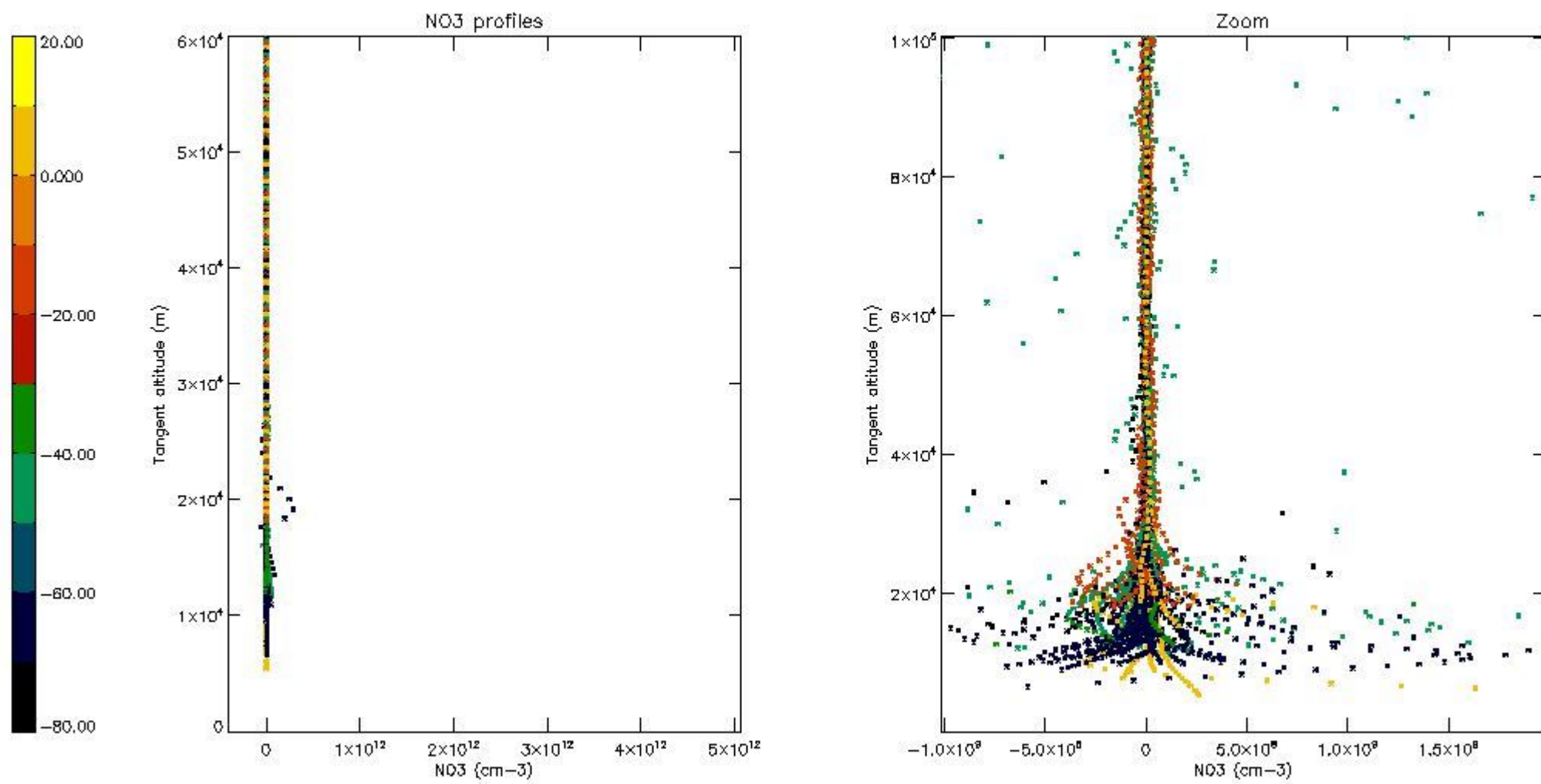
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



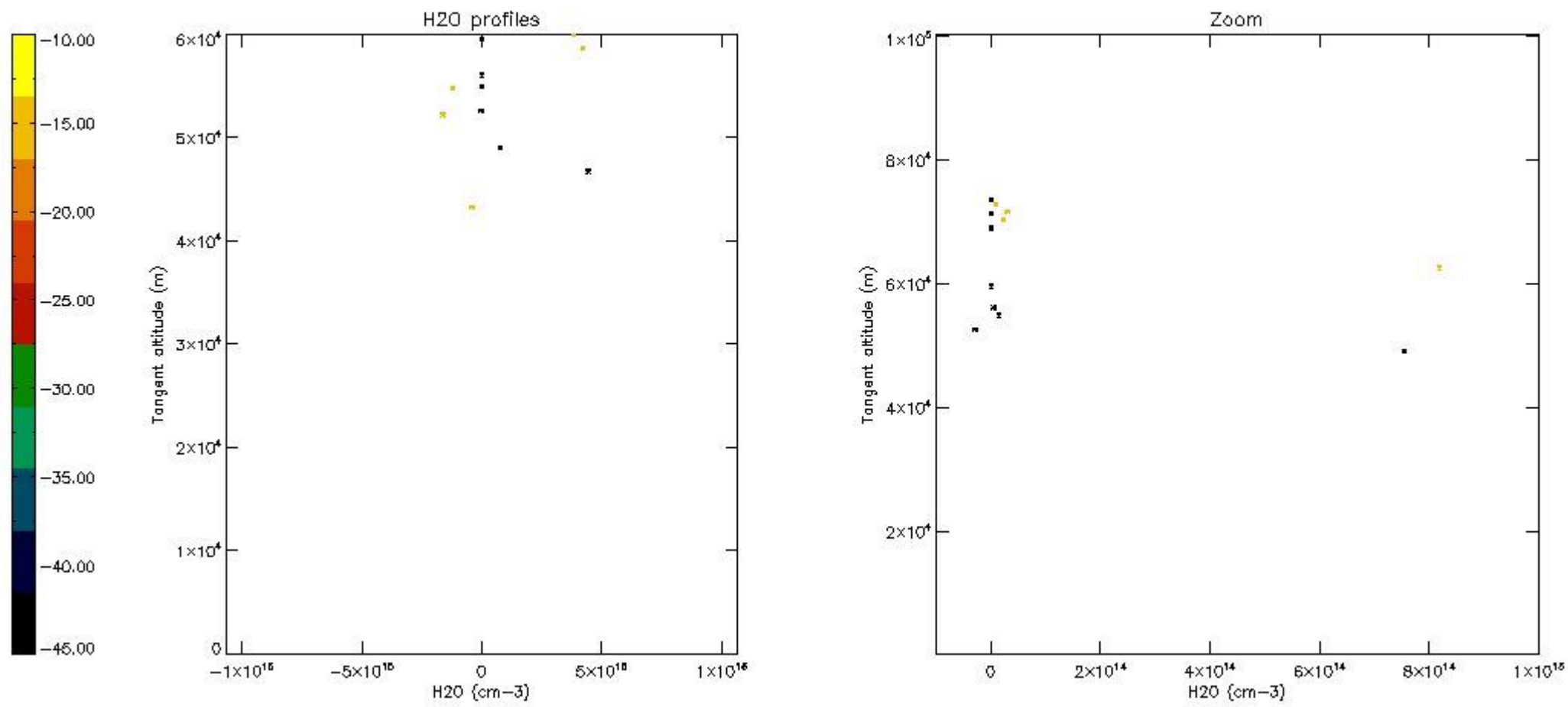
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

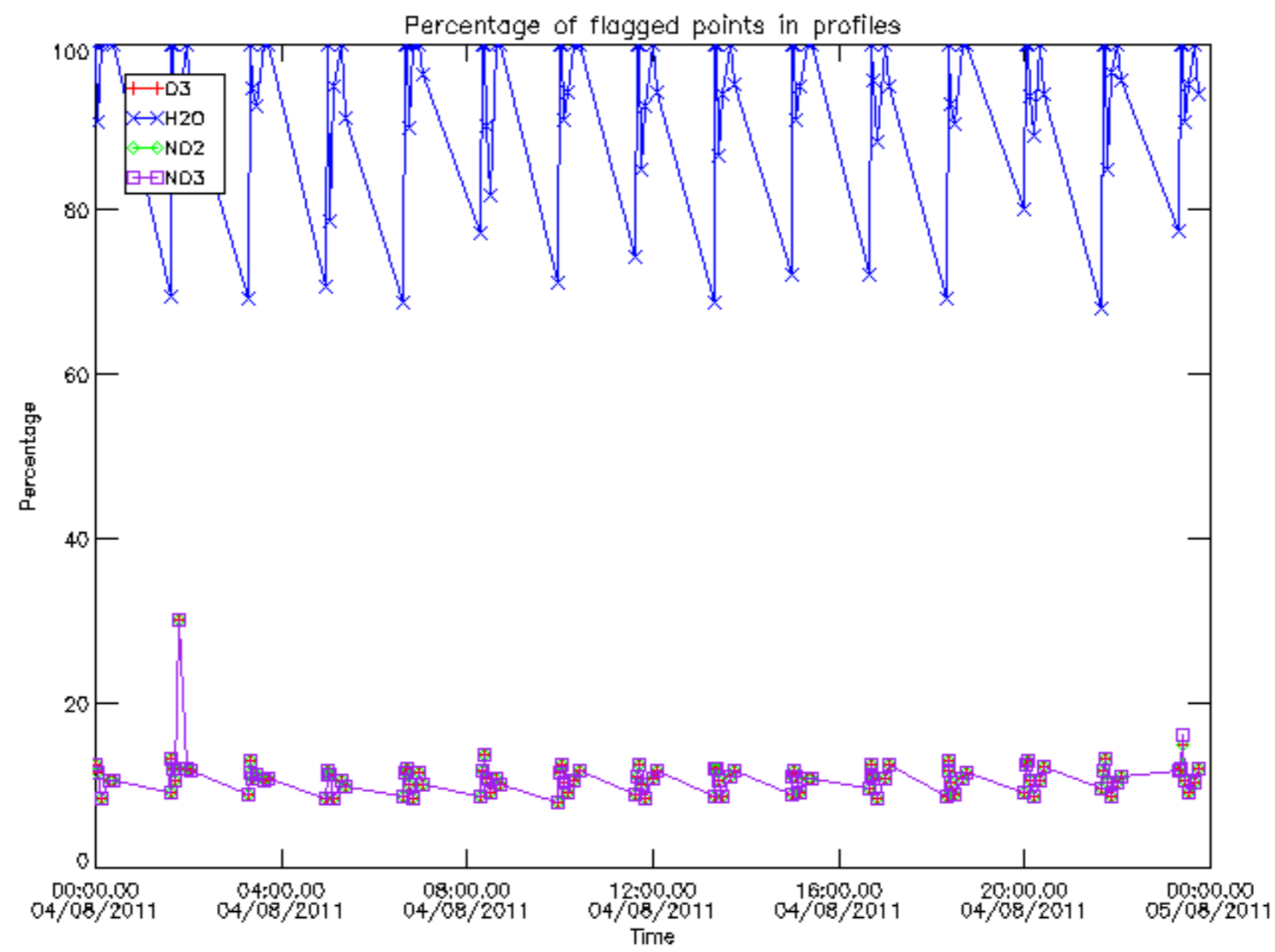
The colorbar represents the latitude.



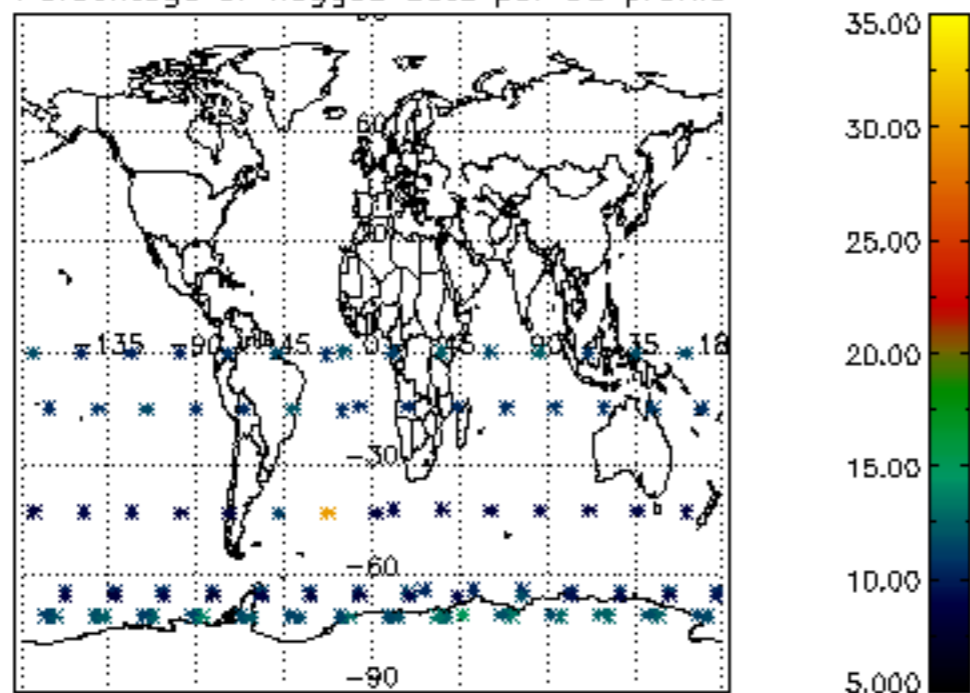
6. Auxiliary Data Files used for the production reported in section 2

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.

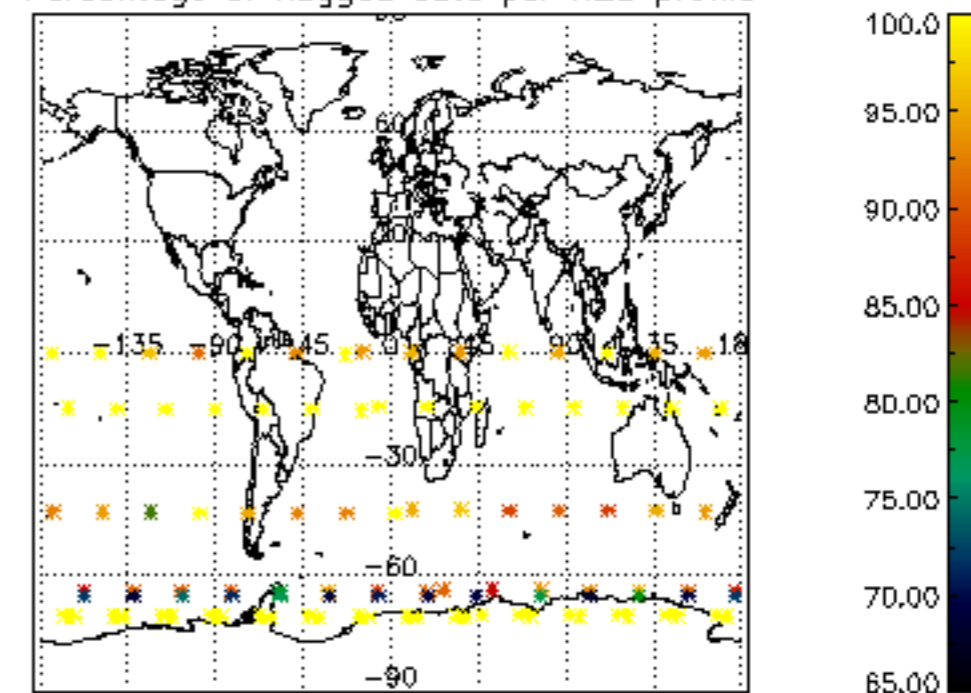
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	04-AUG-2011 00:00:15
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-AUG-2011 00:00:15
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-AUG-2011 00:00:15



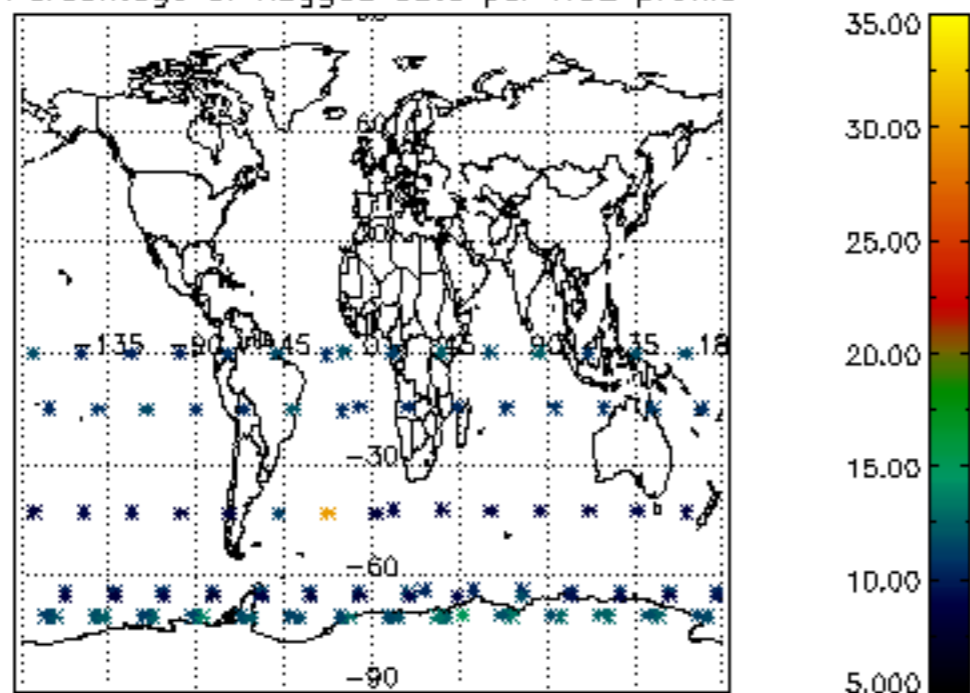
Percentage of flagged data per D3 profile



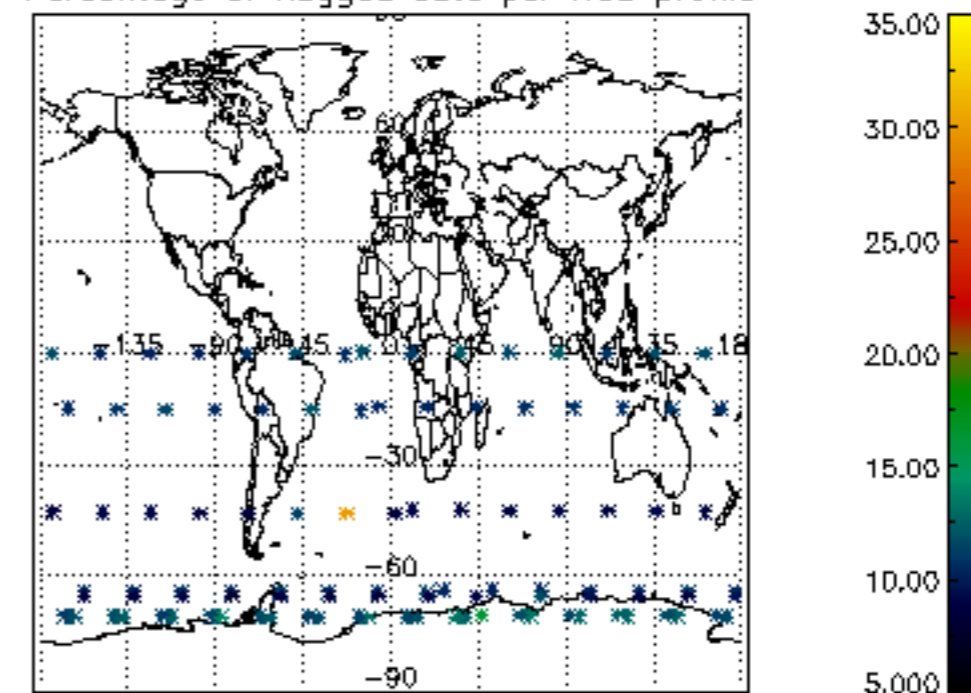
Percentage of flagged data per H2O profile

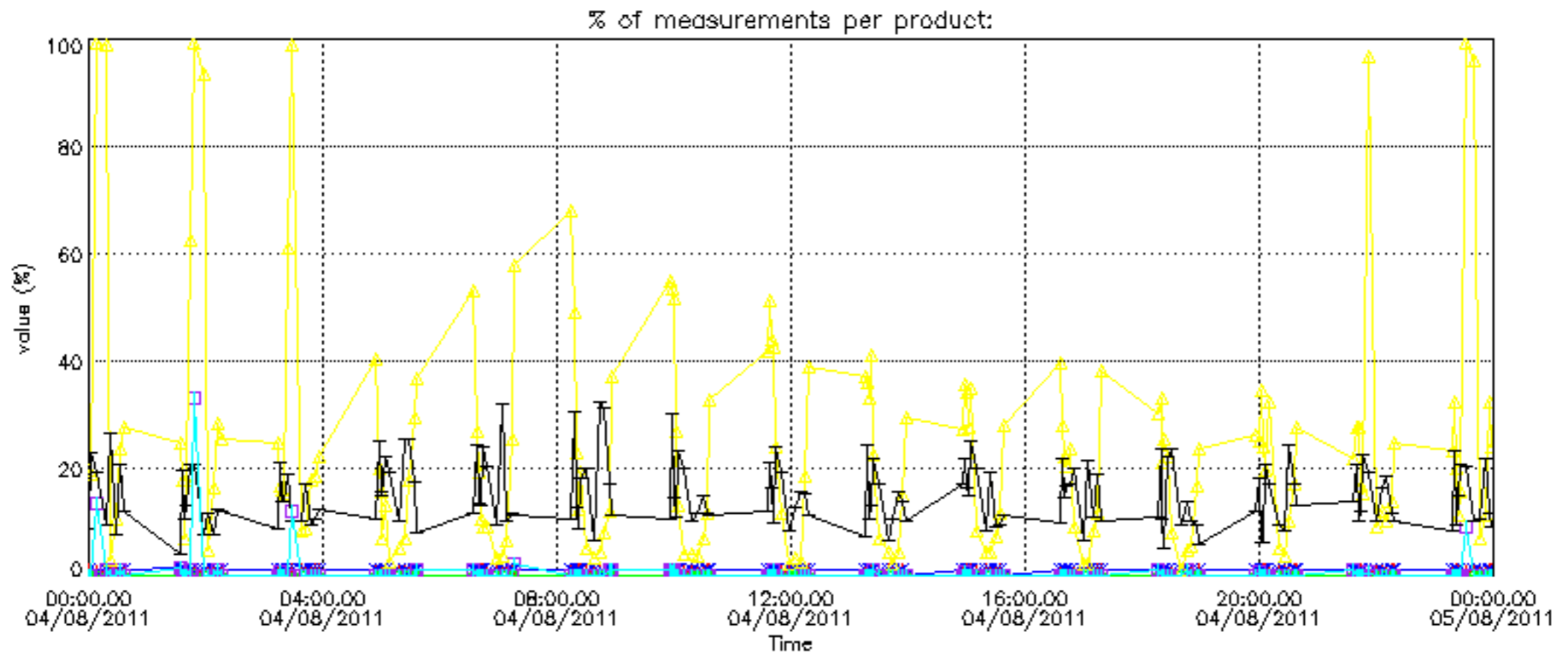


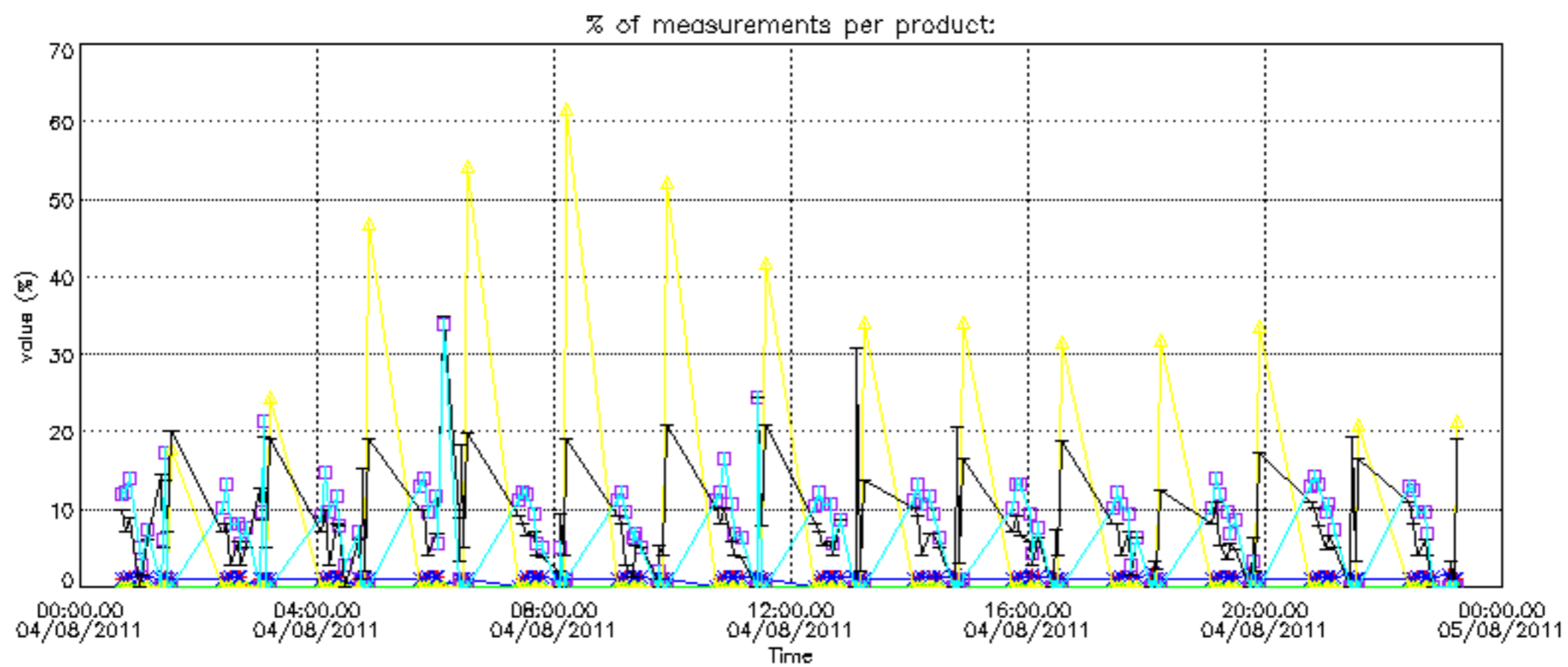
Percentage of flagged data per NO2 profile



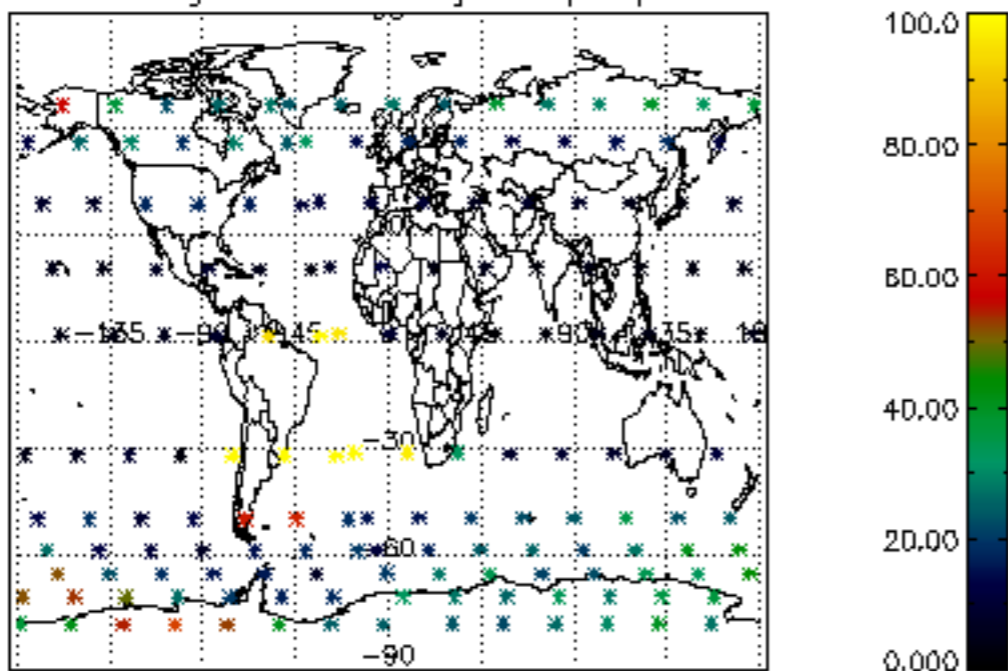
Percentage of flagged data per NO3 profile



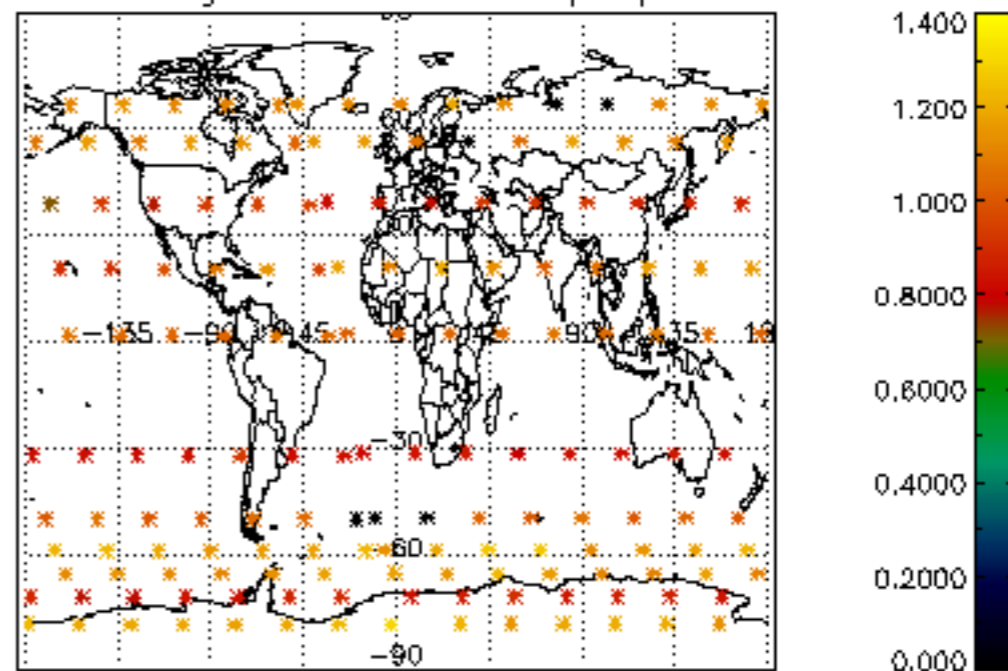




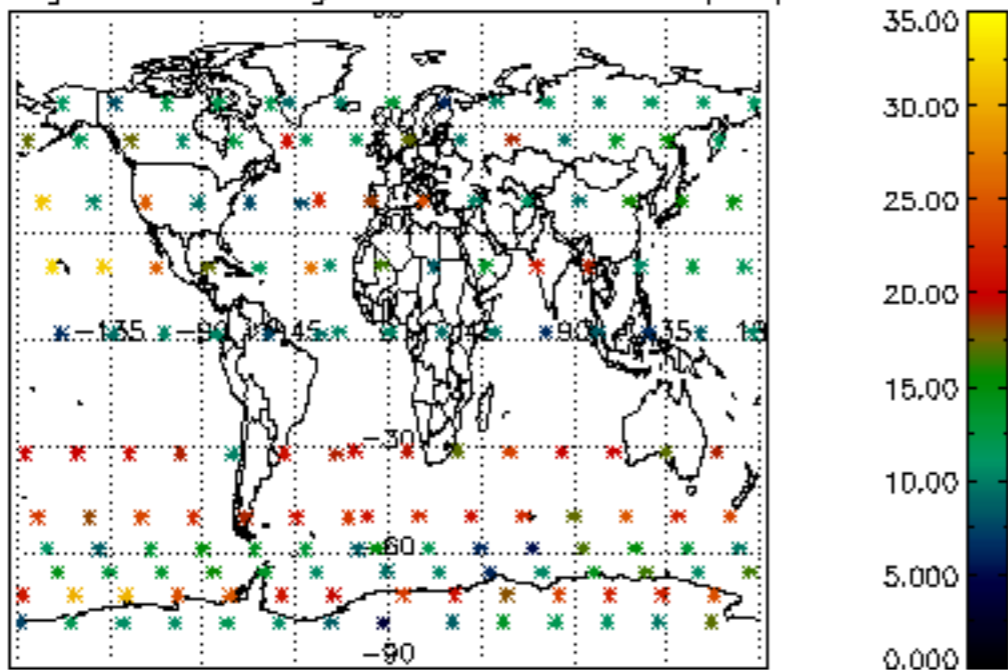
Percentage of cosmic ray hits per profile



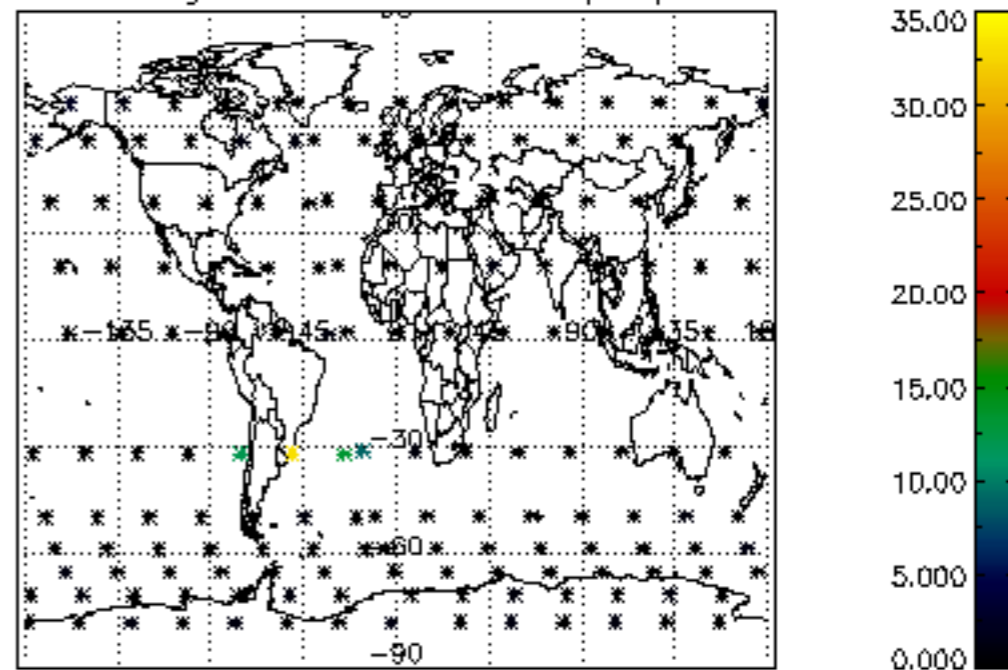
Percentage of datation errors per profile



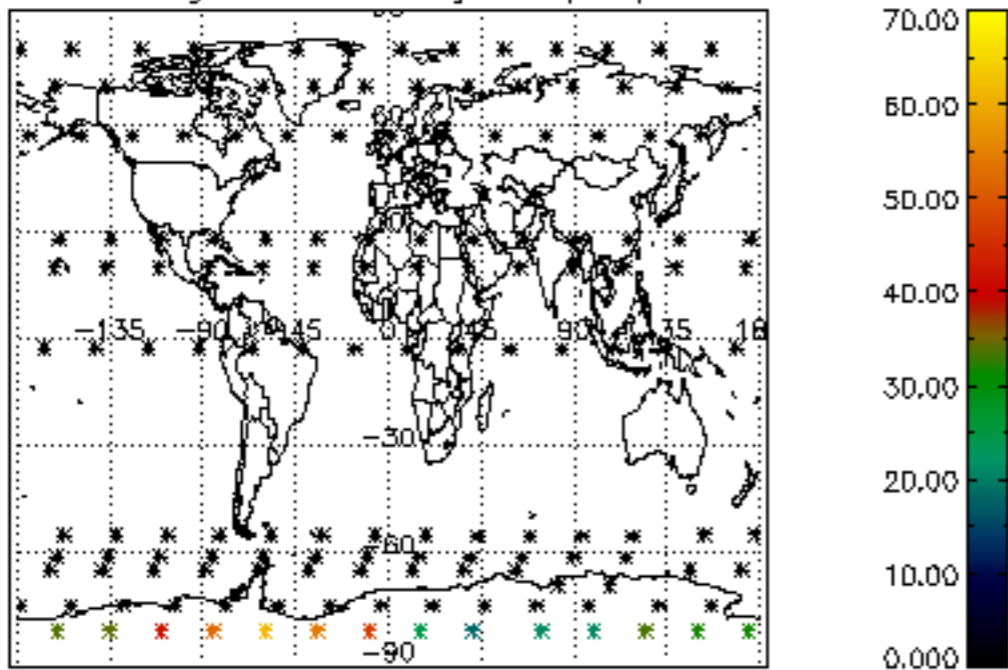
Percentage of star falling outside central band per profile



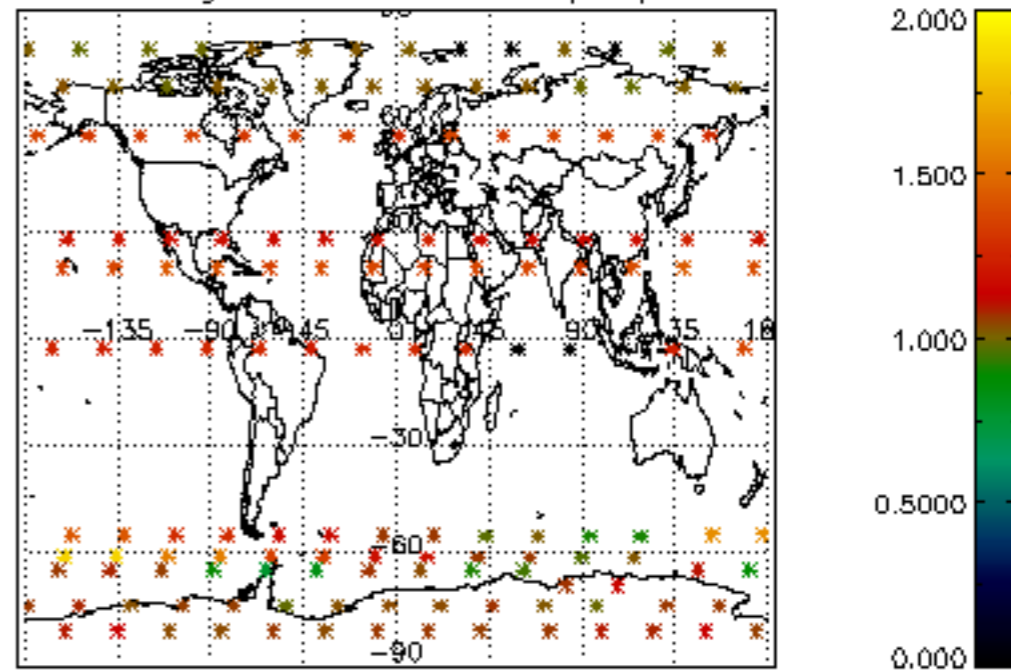
Percentage of saturation errors per profile



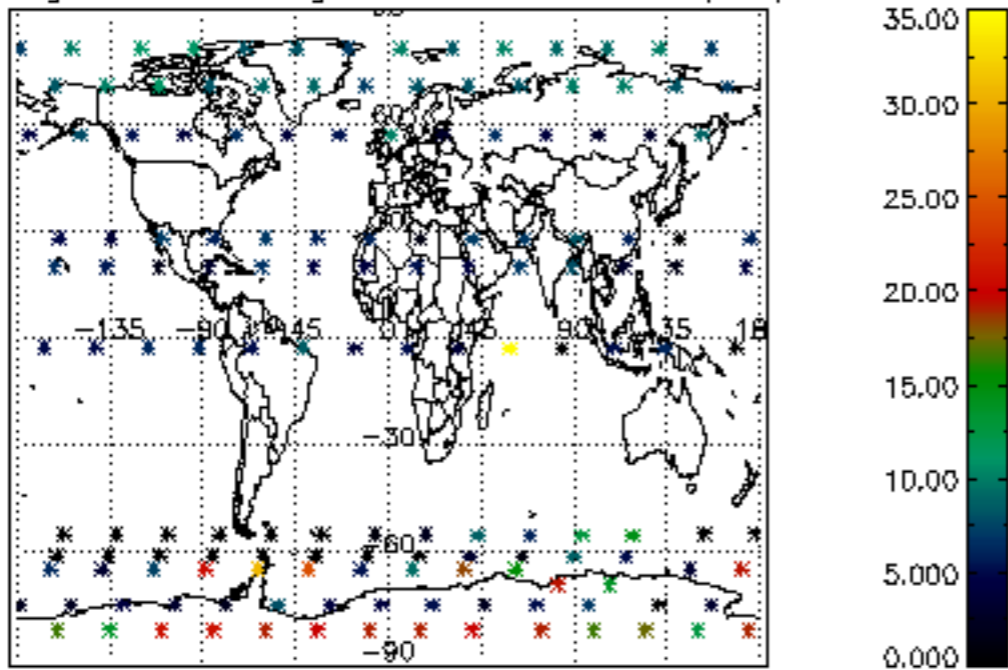
Percentage of cosmic ray hits per profile



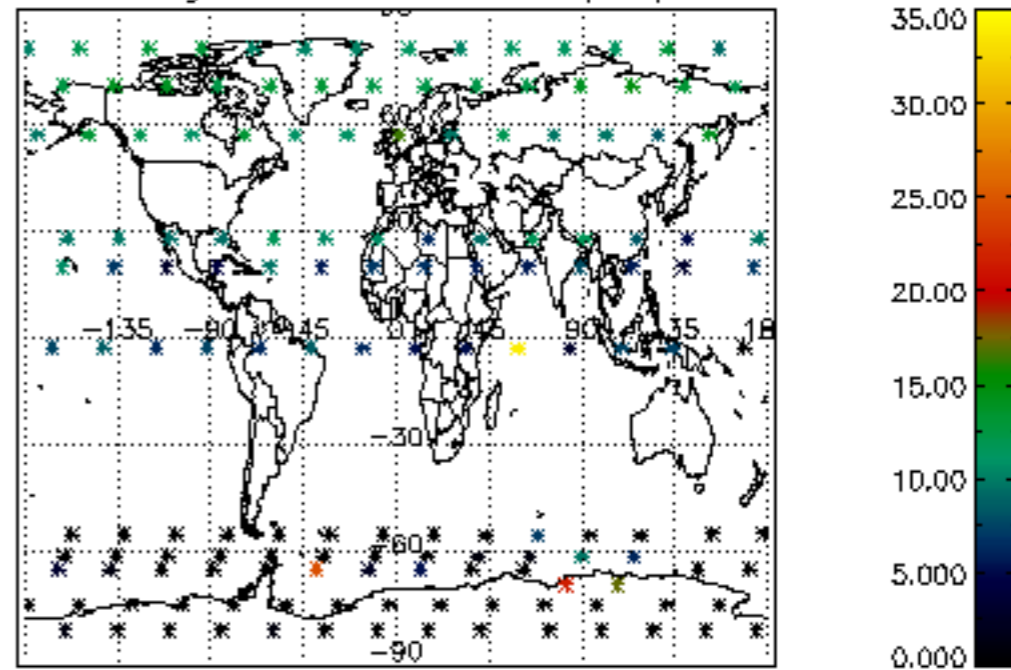
Percentage of datation errors per profile

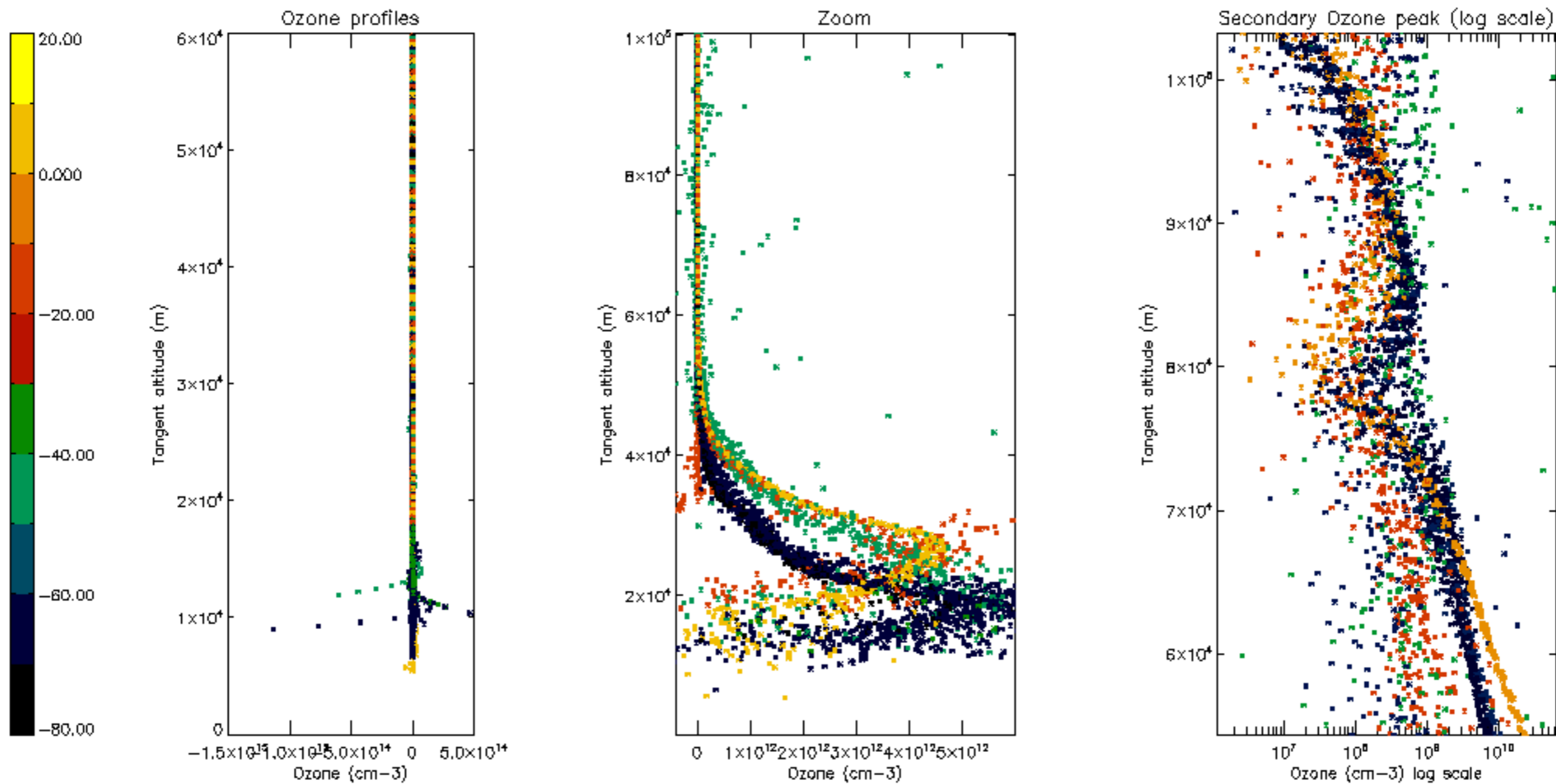


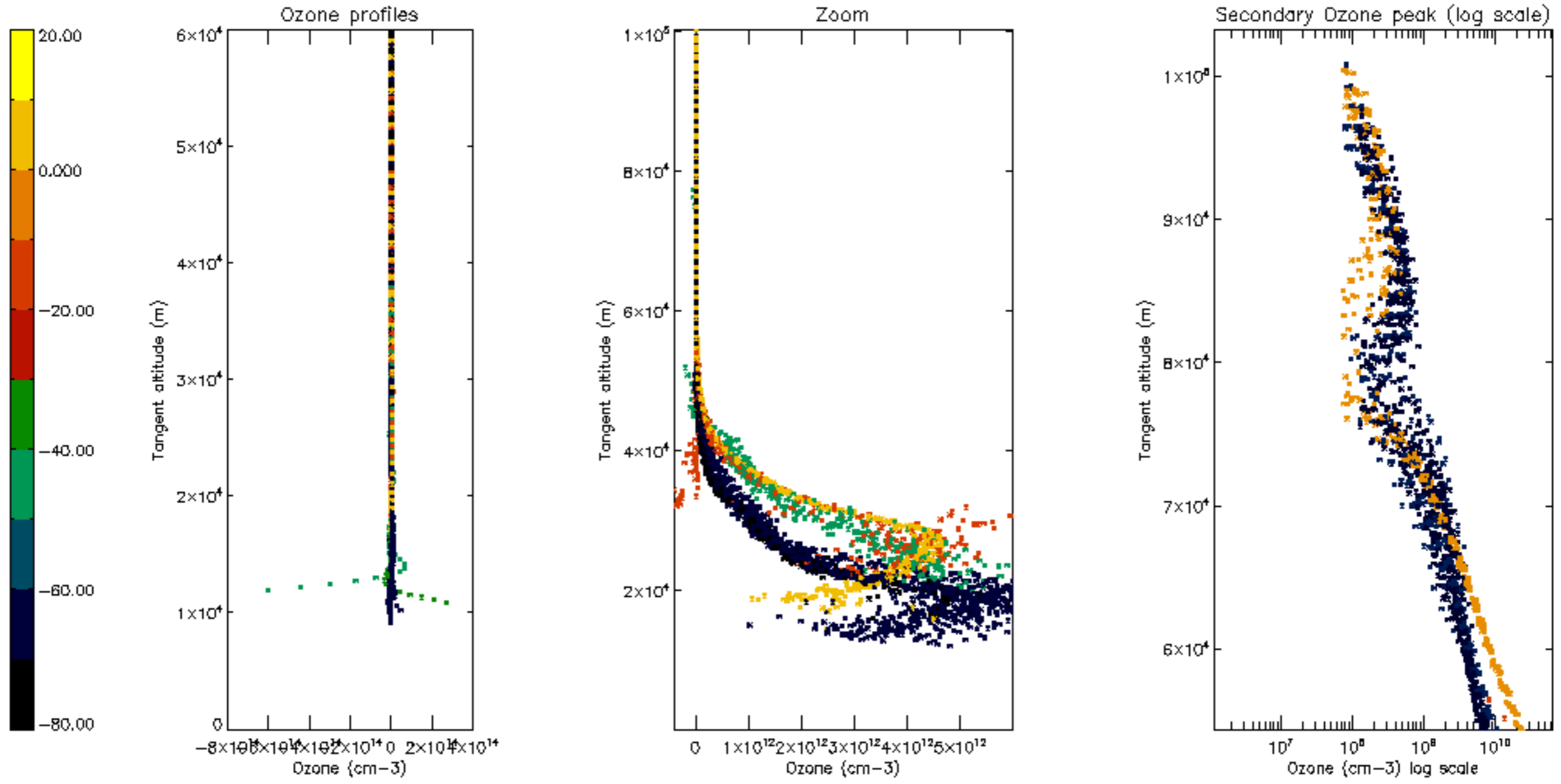
Percentage of star falling outside central band per profile

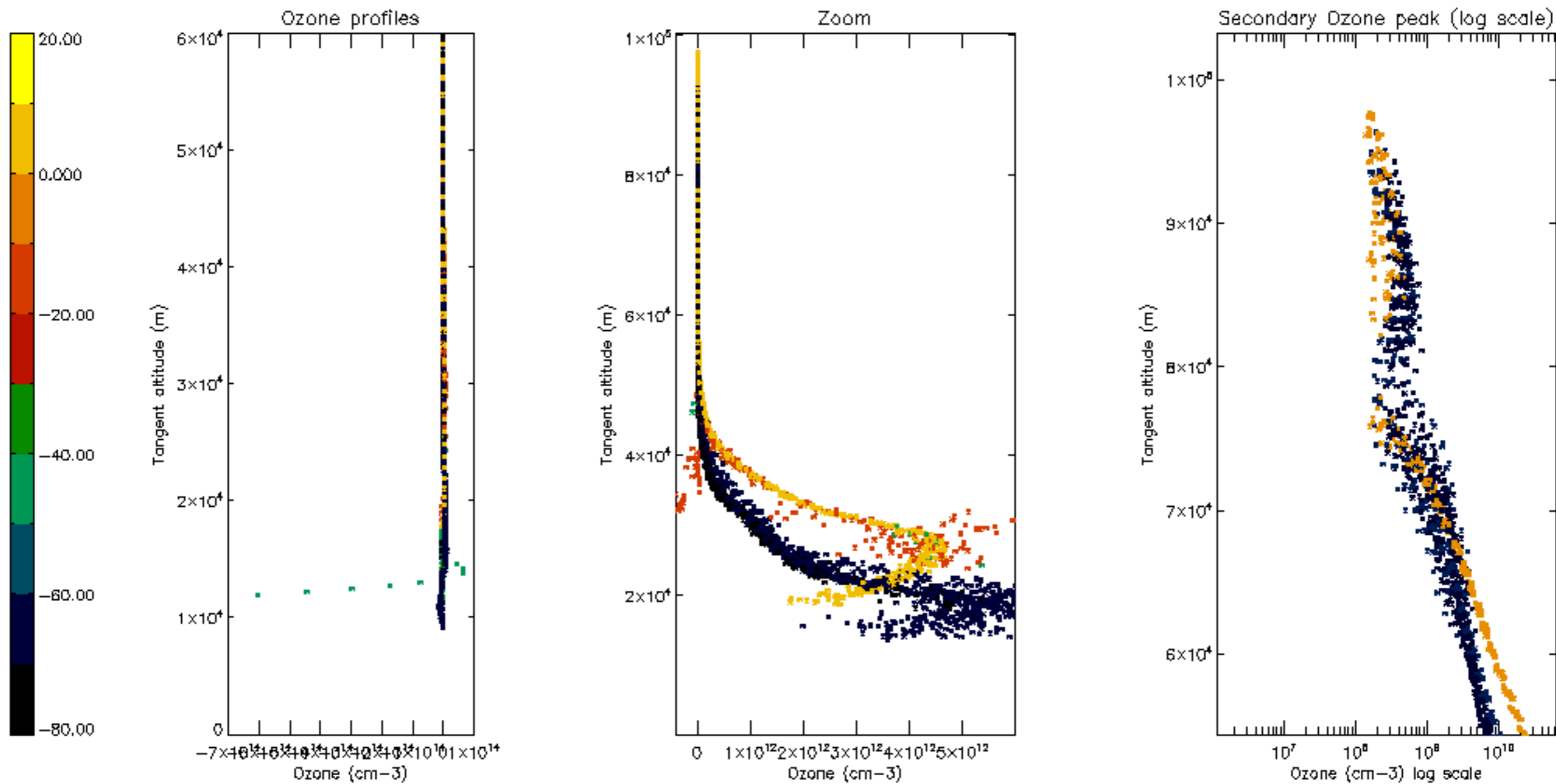


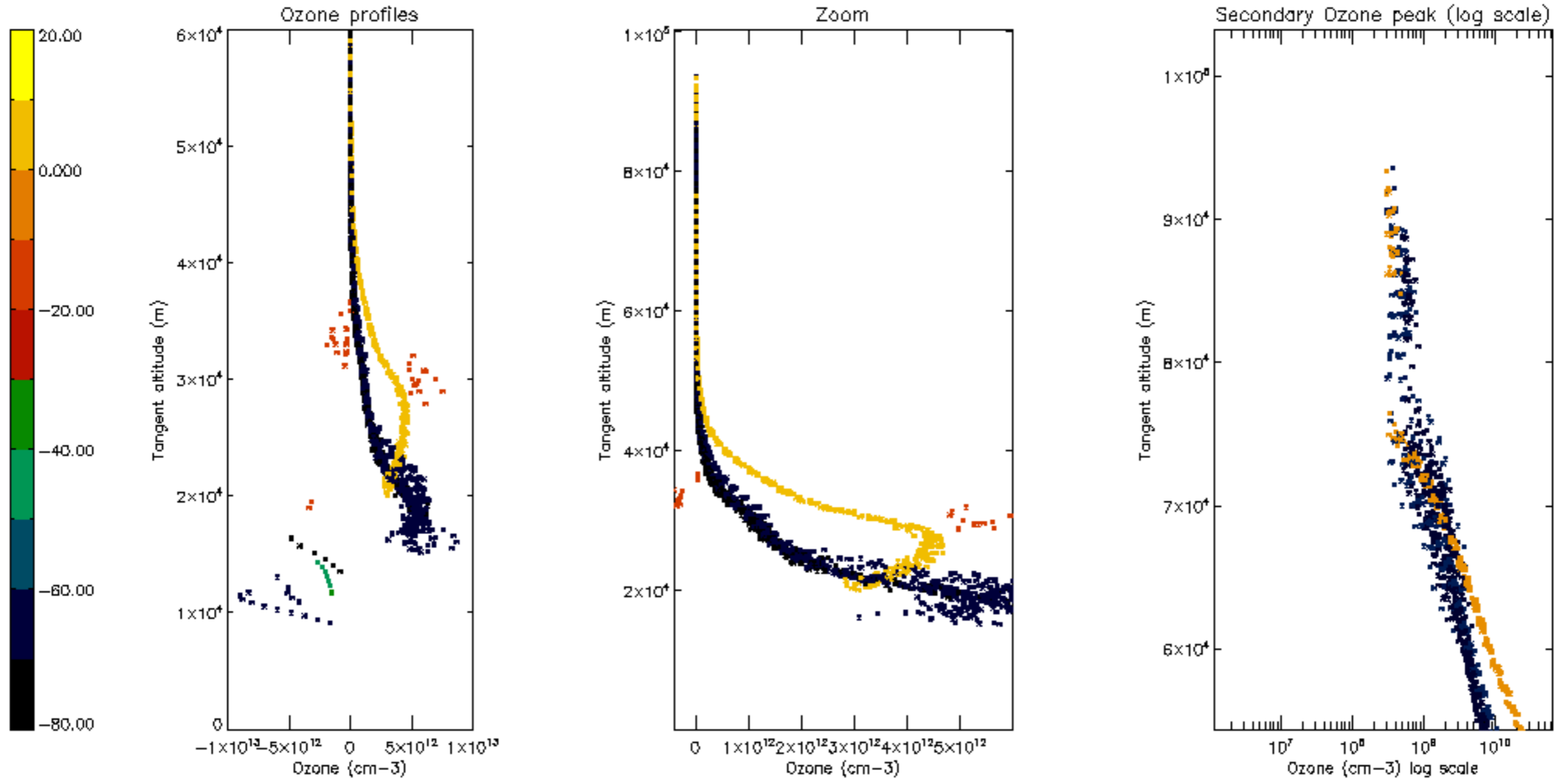
Percentage of saturation errors per profile

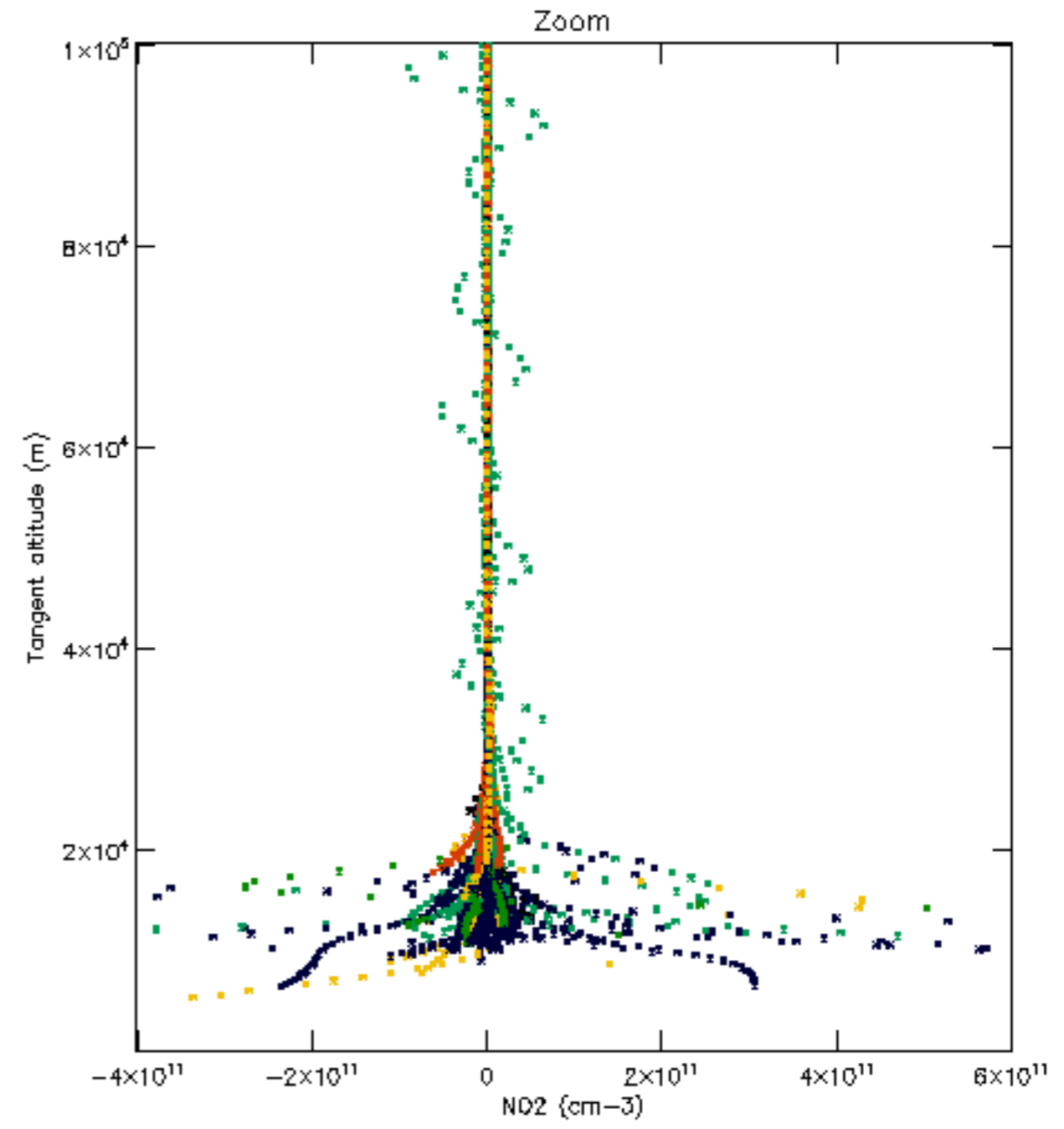
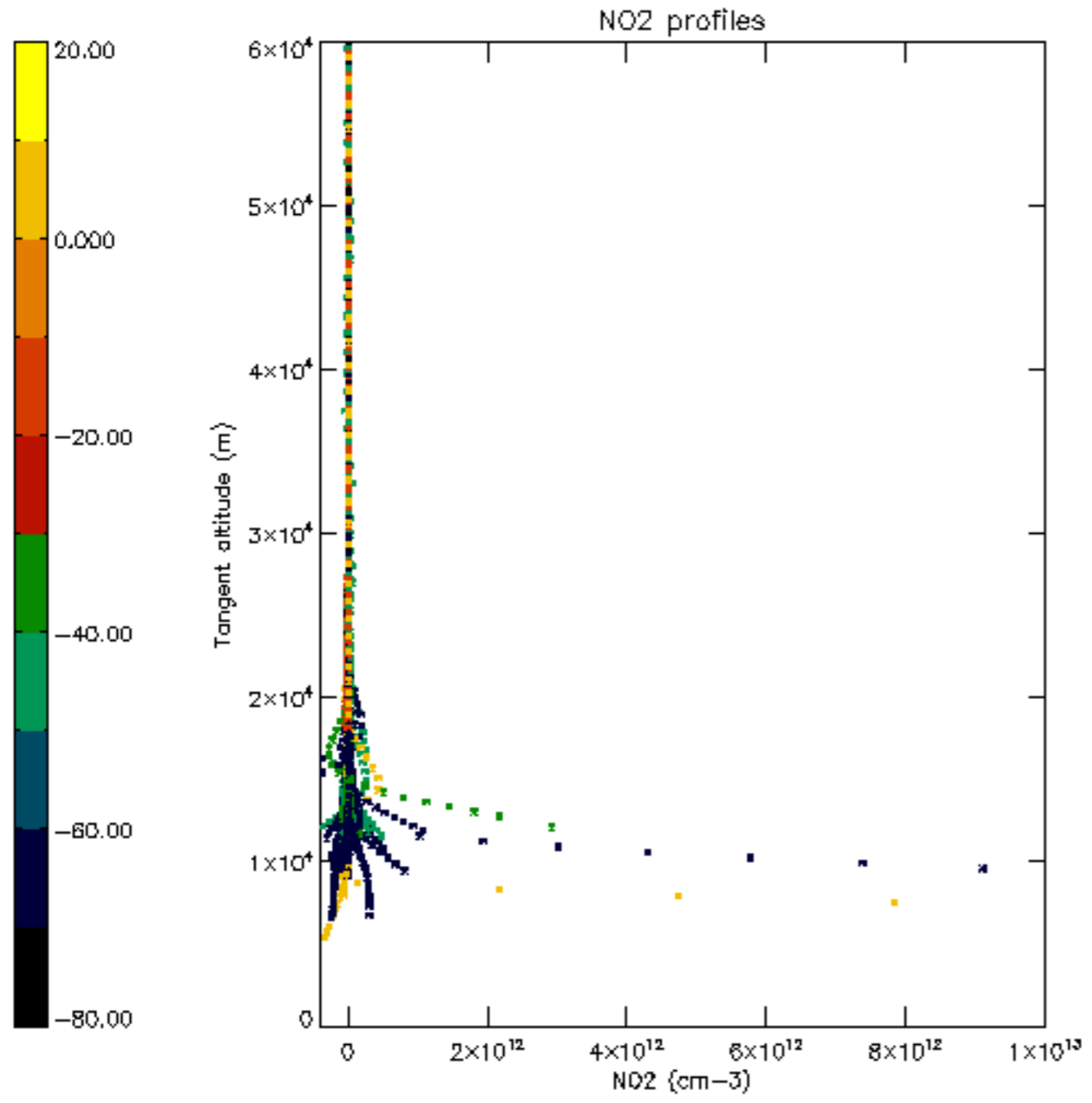


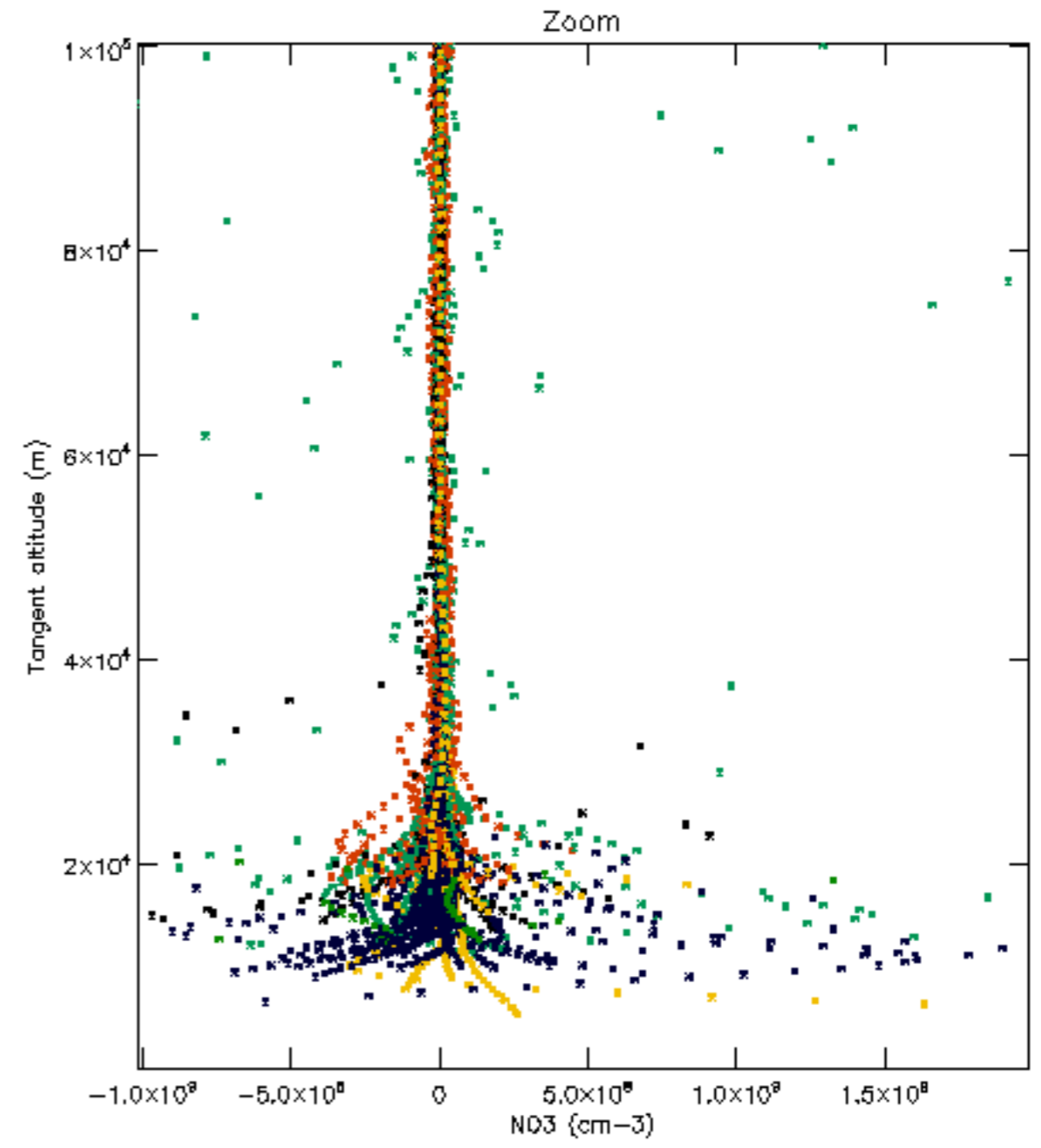
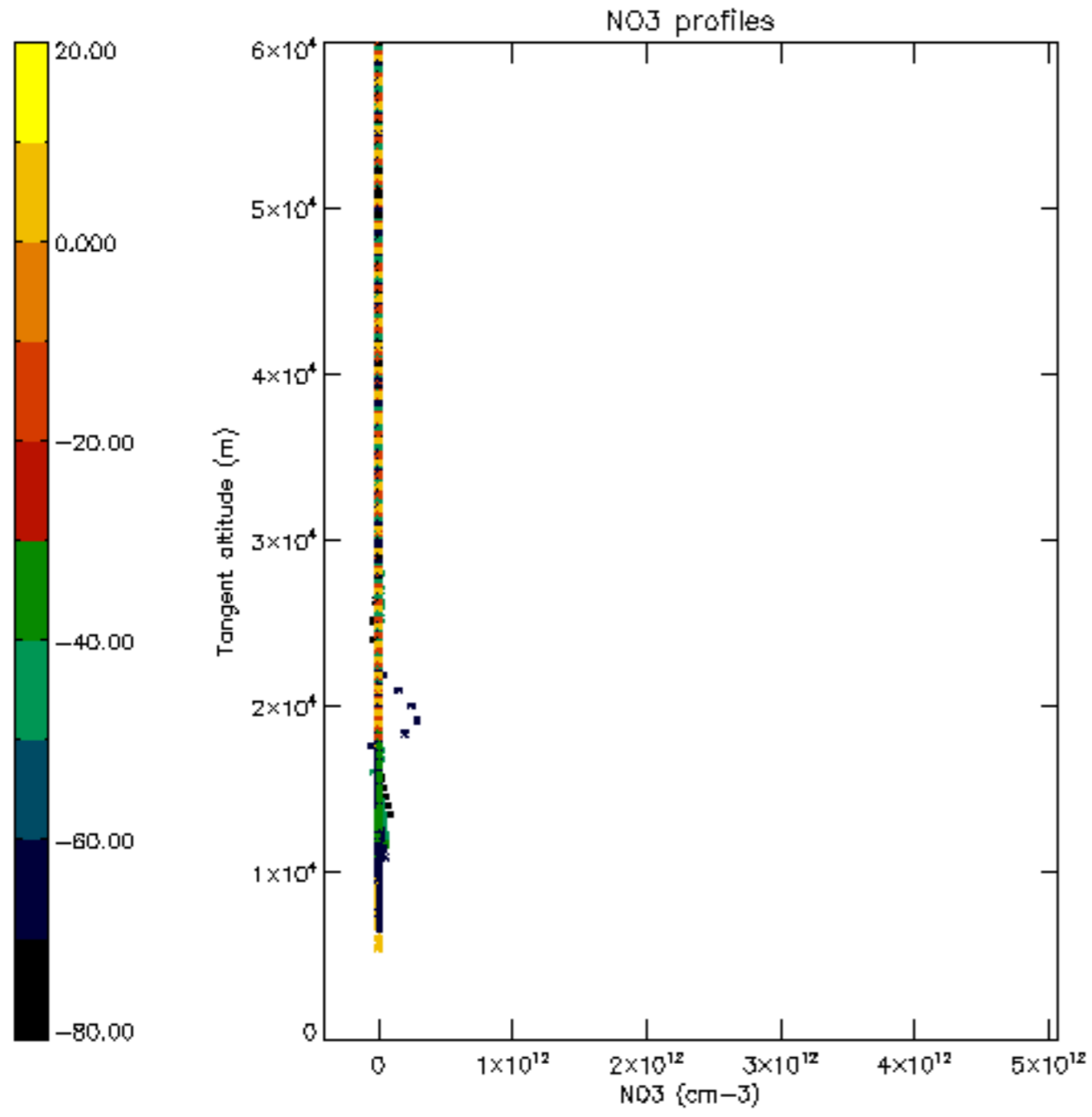


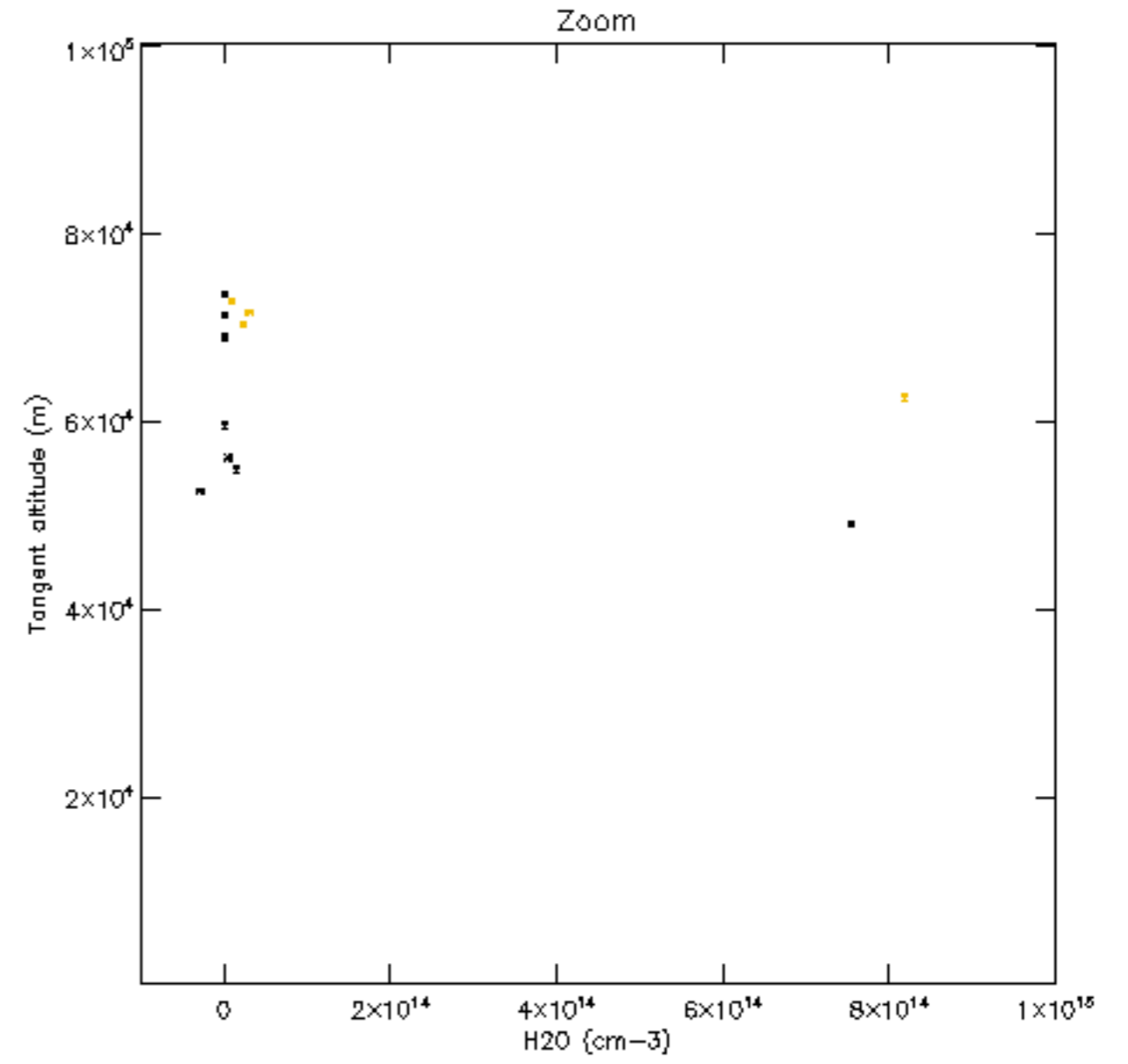
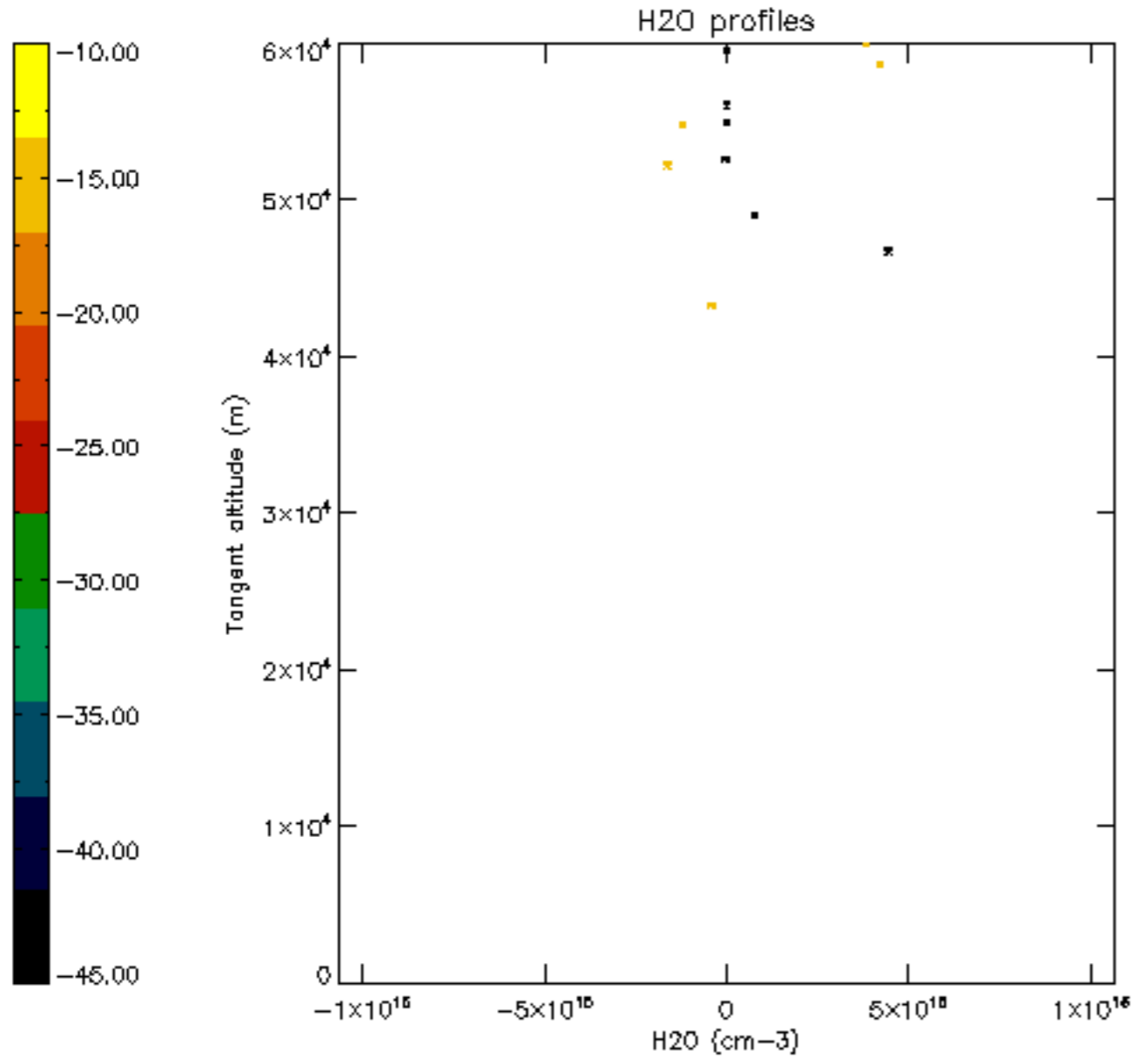


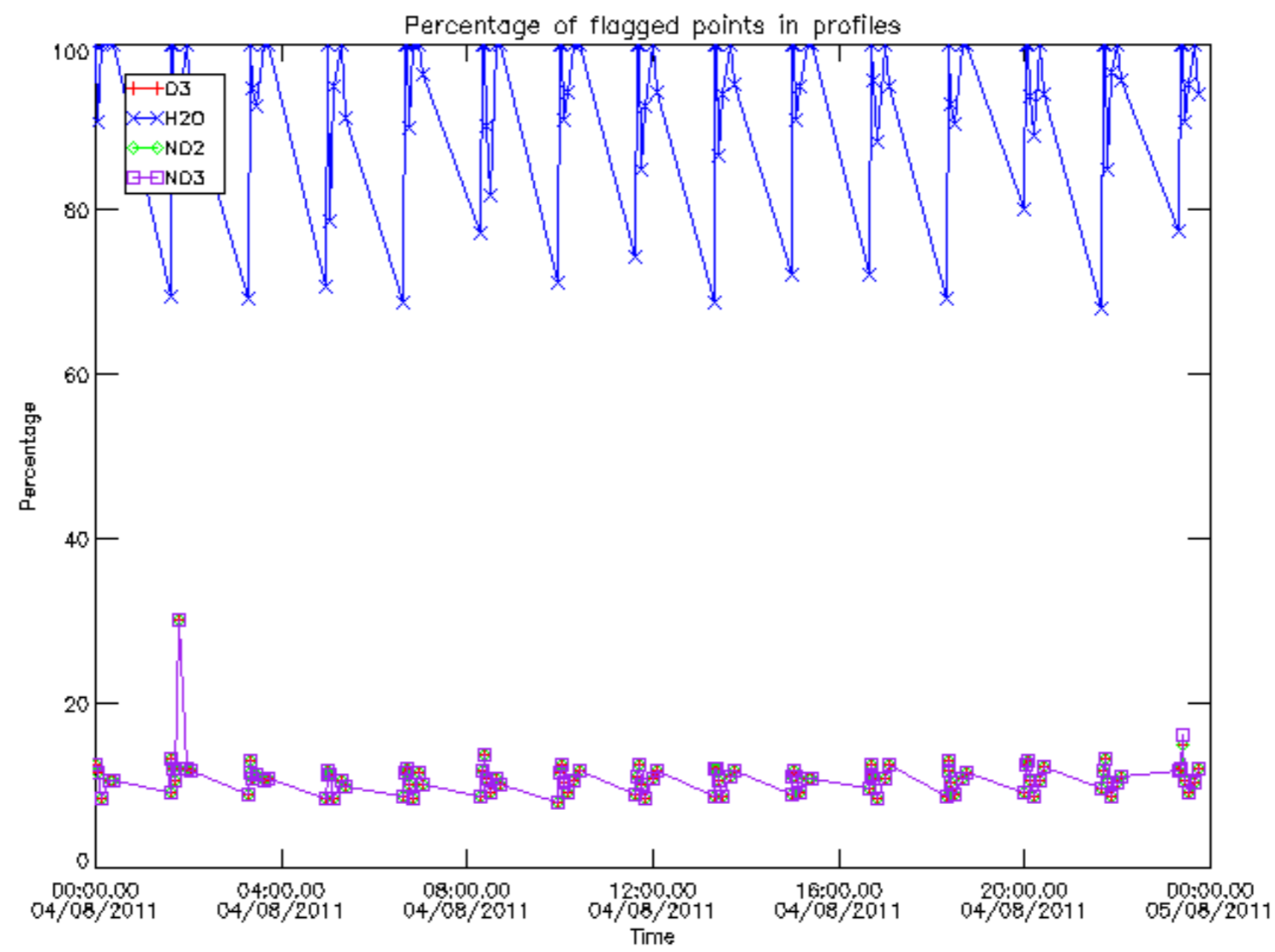




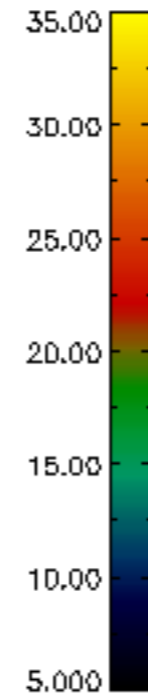
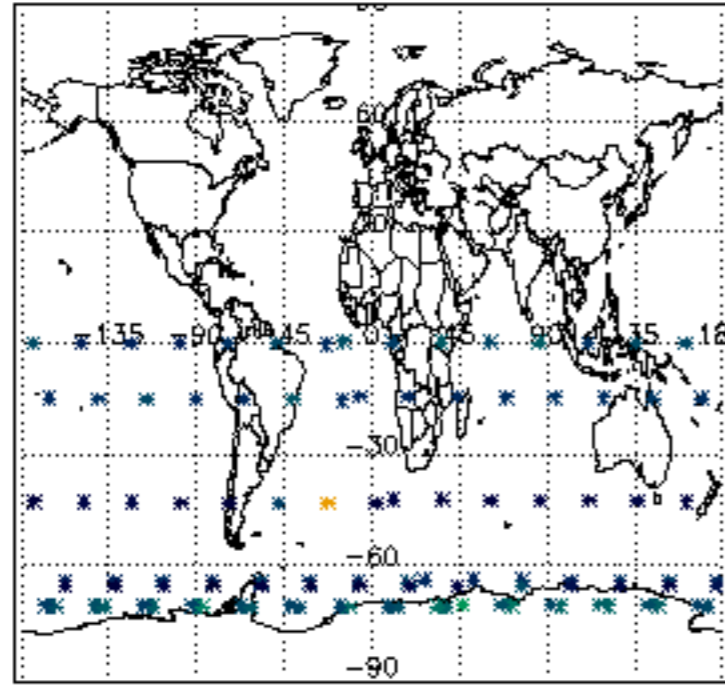




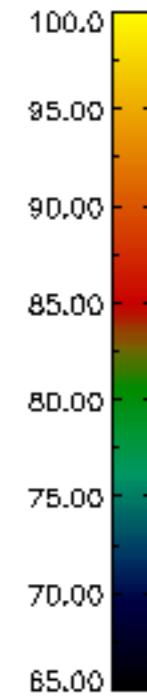
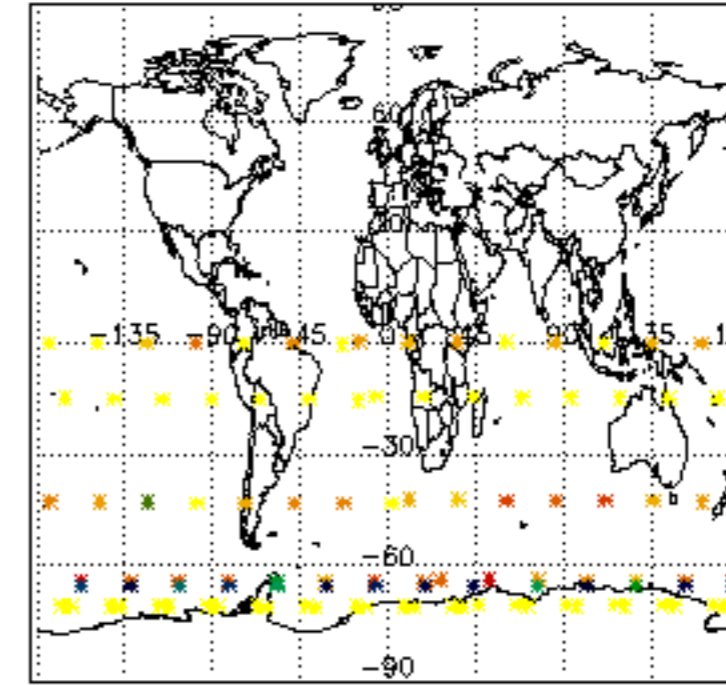




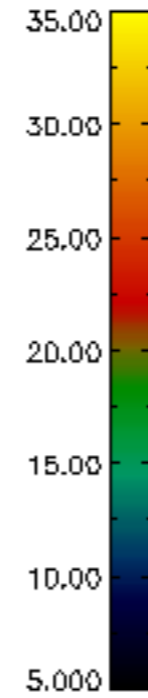
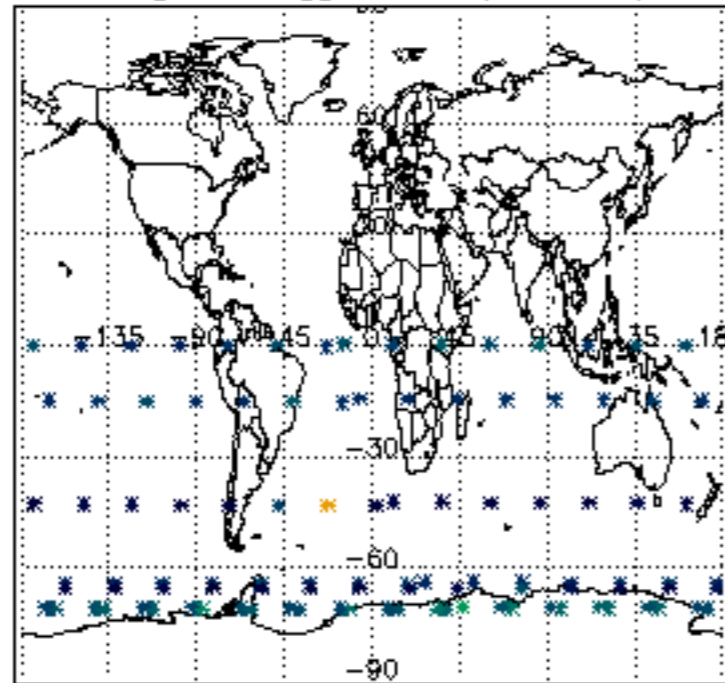
Percentage of flagged data per D3 profile



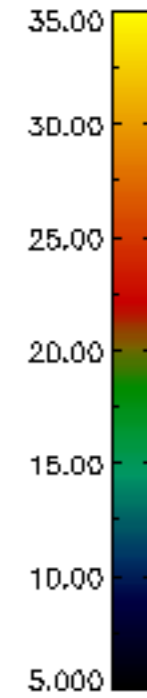
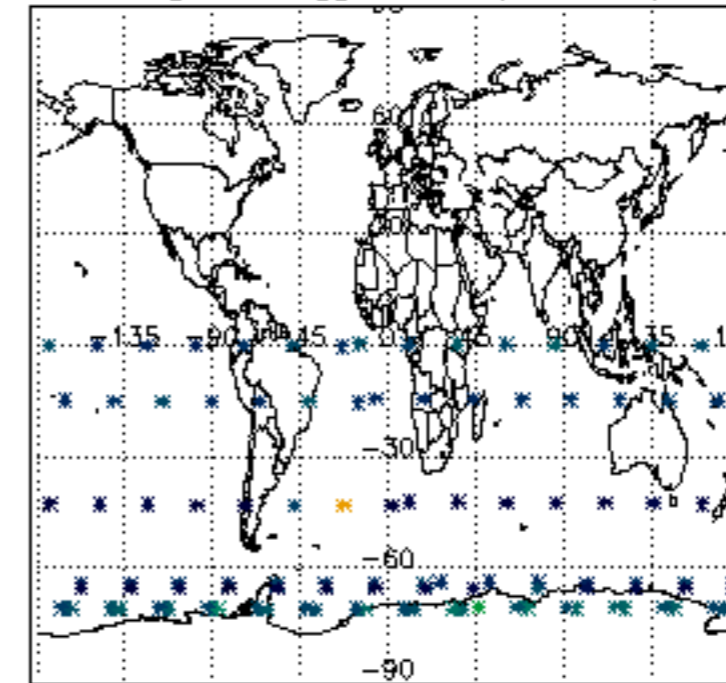
Percentage of flagged data per H2O profile

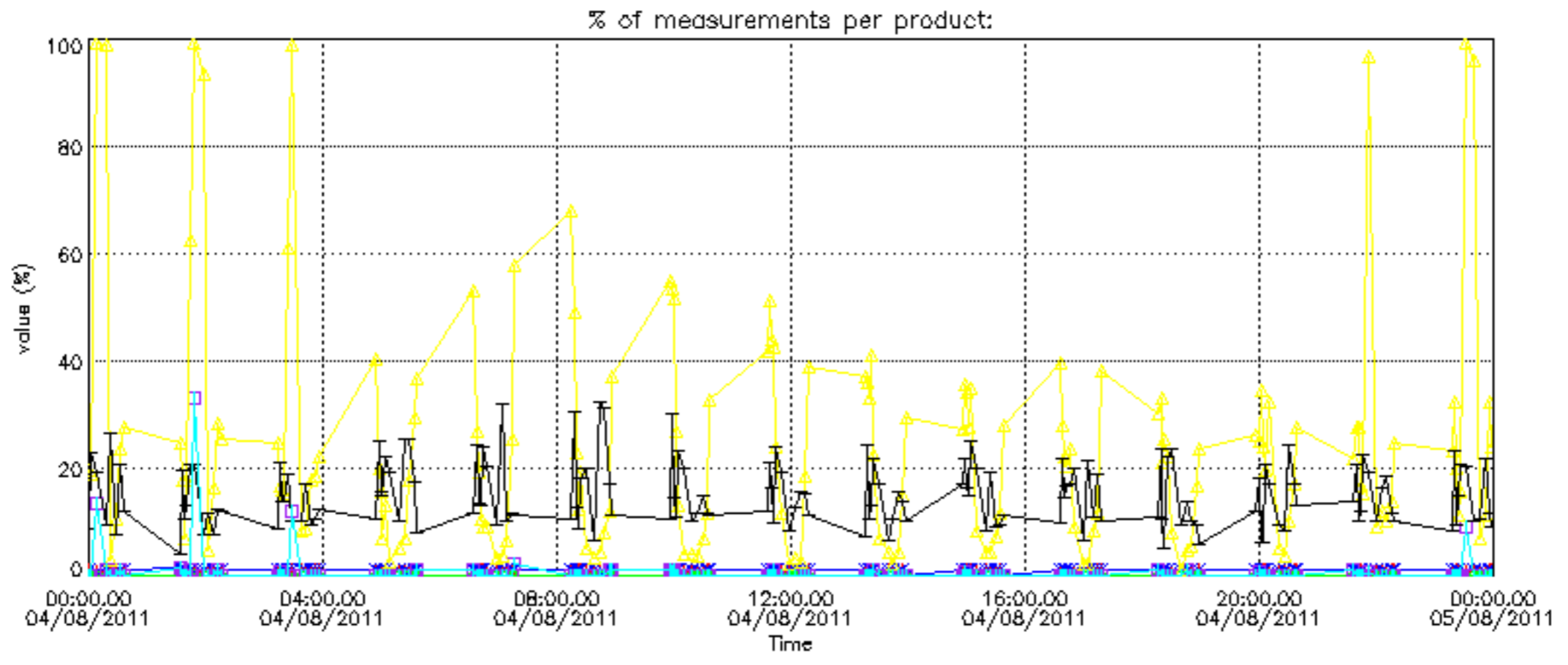


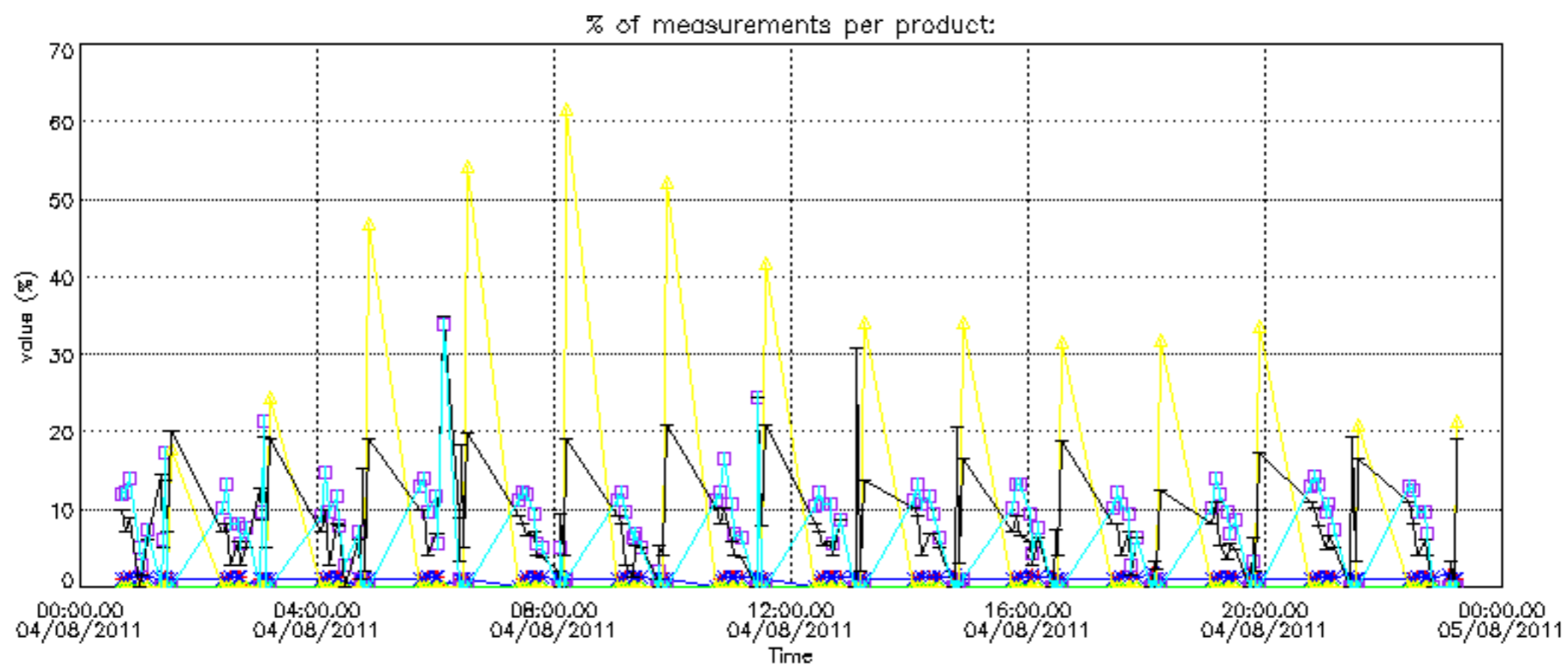
Percentage of flagged data per NO2 profile



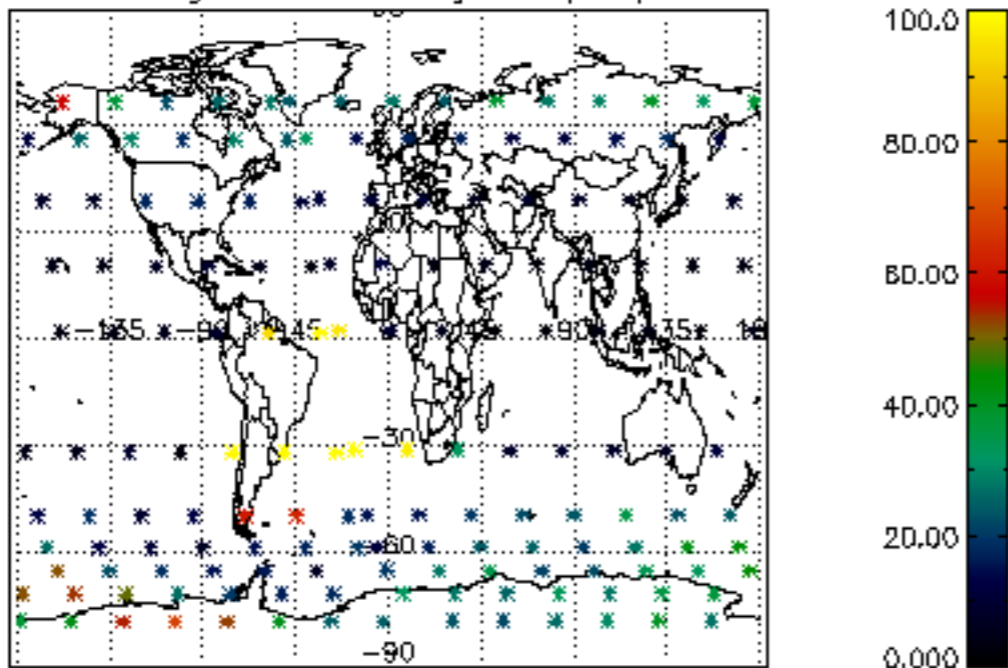
Percentage of flagged data per NO3 profile



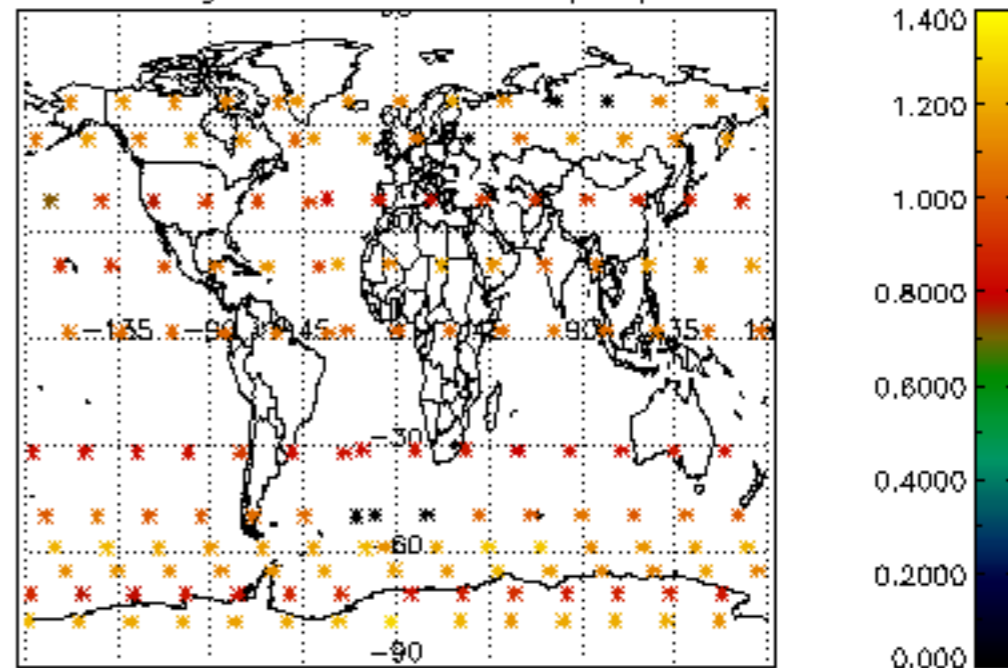




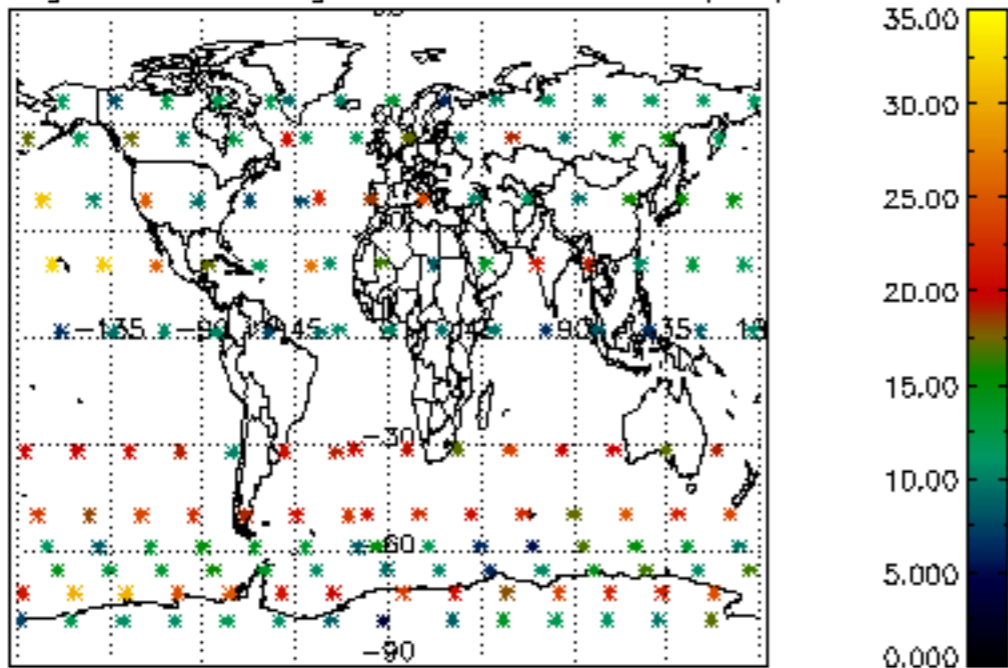
Percentage of cosmic ray hits per profile



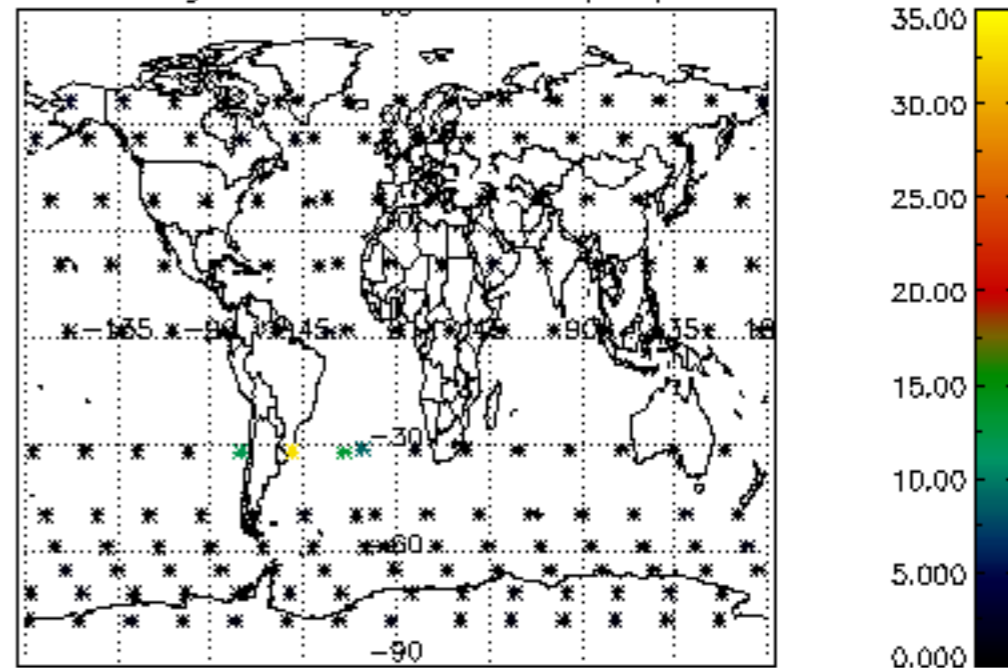
Percentage of datation errors per profile



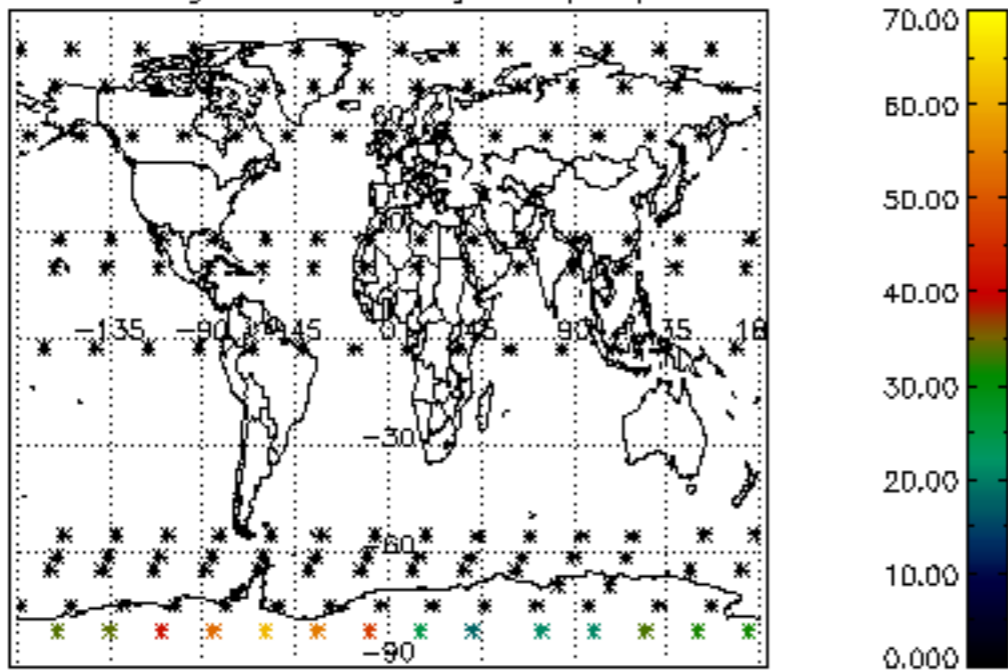
Percentage of star falling outside central band per profile



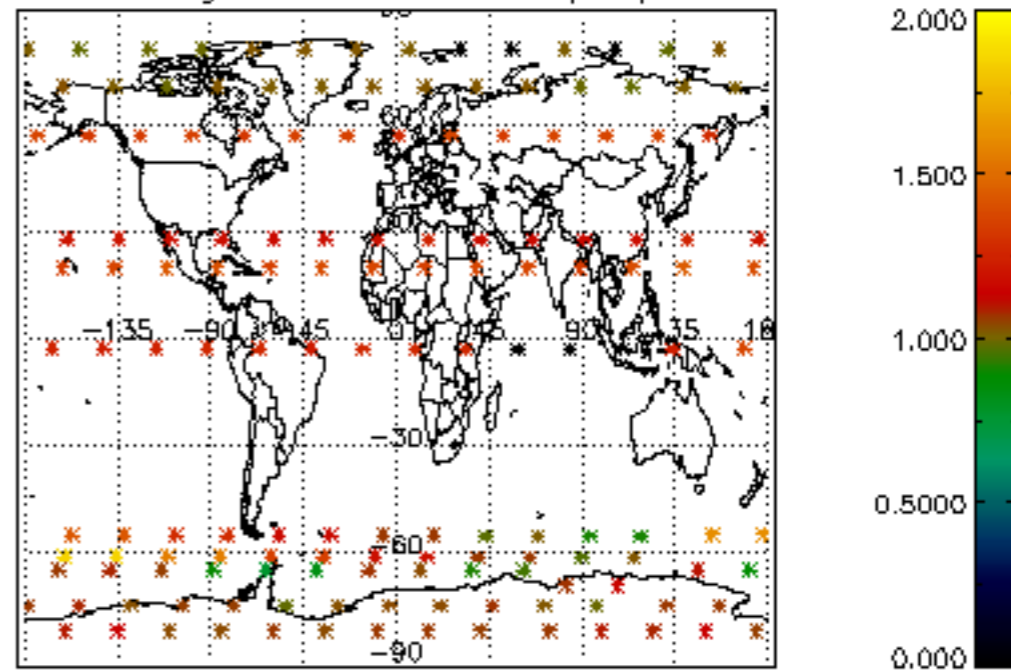
Percentage of saturation errors per profile



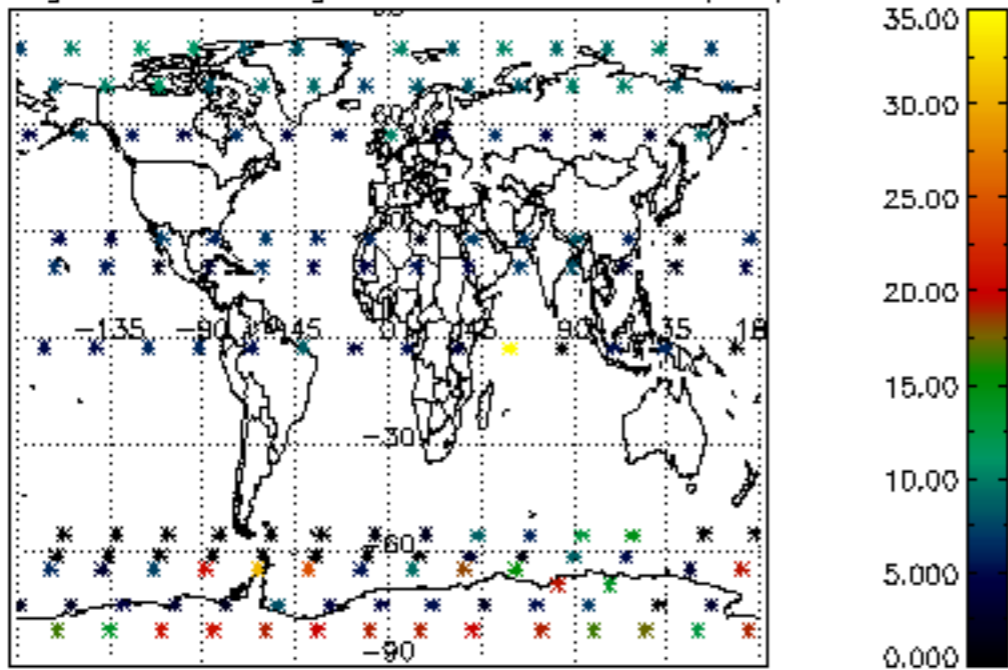
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

