

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	26APR2013 10:48:18
Data source version	GOMOS/6.01
Start time of products	13-07-2009 (13JUL2009 00:00:00)
Stop time of products	14-07-2009 (14JUL2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	179
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

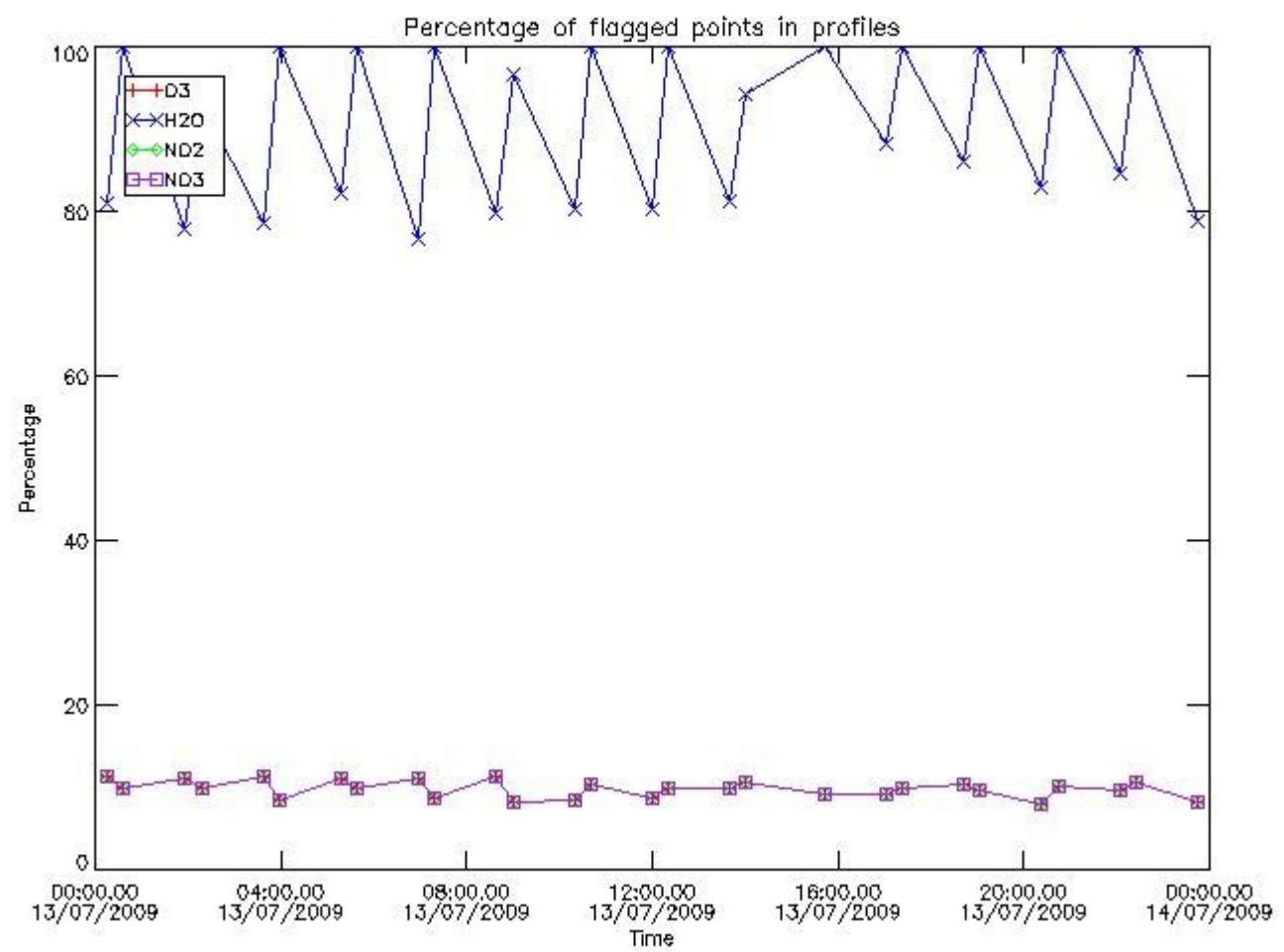
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090713_000200_000000472080_00388_38518_0093.N1	13-JUL-2009 00:02:00	Bright	46.500	73	57Gam1And	2.2600	13100.	93	38518	No
2	GOM_NL__2PRFIN20090713_001543_000000452080_00388_38518_0094.N1	13-JUL-2009 00:15:43	Dark	44.500	94	92Alp Cet	2.5260	3100.0	89	38518	No
3	GOM_NL__2PRFIN20090713_003635_000000512080_00389_38519_0099.N1	13-JUL-2009 00:36:35	Dark	51.000	84	Alp Phe	2.3970	4500.0	102	38519	No
4	GOM_NL__2PRFIN20090713_004235_000000632080_00389_38519_0100.N1	13-JUL-2009 00:42:35	Straylight	63.000	63	Bet Gru	2.1500	2800.0	126	38519	No
5	GOM_NL__2PRFIN20090713_004415_000000492080_00389_38519_0101.N1	13-JUL-2009 00:44:15	Straylight	49.000	31	Alp Gru	1.7340	15200.	98	38519	No
6	GOM_NL__2PRFIN20090713_004727_000000542080_00389_38519_0102.N1	13-JUL-2009 00:47:27	Straylight	54.000	172	Gam Gru	3.0030	13100.	108	38519	No
7	GOM_NL__2PRFIN20090713_010756_000000402080_00389_38519_0103.N1	13-JUL-2009 01:07:56	Bright	39.500	168	17Zet Aql	2.9860	11000.	79	38519	No
8	GOM_NL__2PRFIN20090713_011828_000000412080_00389_38519_0104.N1	13-JUL-2009 01:18:28	Bright	40.500	144	18Del Cyg	2.8600	11000.	81	38519	No
9	GOM_NL__2PRFIN20090713_012104_000000522080_00389_38519_0105.N1	13-JUL-2009 01:21:04	Bright	52.000	19	50Alp Cyg	1.2460	10500.	104	38519	No
10	GOM_NL__2PRFIN20090713_012542_000000422080_00389_38519_0106.N1	13-JUL-2009 01:25:42	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	38519	No
11	GOM_NL__2PRFIN20090713_013312_000000672080_00389_38519_0107.N1	13-JUL-2009 01:33:12	Bright	67.000	74	11Bet Cas	2.2680	6600.0	134	38519	No
12	GOM_NL__2PRFIN20090713_013525_000000662080_00389_38519_0108.N1	13-JUL-2009 01:35:25	Bright	66.000	110	37Del Cas	2.6780	8900.0	132	38519	No
13	GOM_NL__2PRFIN20090713_013915_000000372080_00389_38519_0109.N1	13-JUL-2009 01:39:15	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	38519	No
14	GOM_NL__2PRFIN20090713_014236_000000472080_00389_38519_0110.N1	13-JUL-2009 01:42:36	Bright	47.000	73	57Gam1And	2.2600	13100.	94	38519	No
15	GOM_NL__2PRFIN20090713_015620_000000462080_00389_38519_0111.N1	13-JUL-2009 01:56:20	Dark	45.500	94	92Alp Cet	2.5260	3100.0	91	38519	No
16	GOM_NL__2PRFIN20090713_021712_000000512080_00390_38520_0113.N1	13-JUL-2009 02:17:12	Dark	51.000	84	Alp Phe	2.3970	4500.0	102	38520	No
17	GOM_NL__2PRFIN20090713_022312_000000592080_00390_38520_0114.N1	13-JUL-2009 02:23:12	Straylight	59.000	63	Bet Gru	2.1500	2800.0	118	38520	No
18	GOM_NL__2PRFIN20090713_022452_000000552080_00390_38520_0115.N1	13-JUL-2009 02:24:52	Straylight	55.000	31	Alp Gru	1.7340	15200.	110	38520	No
19	GOM_NL__2PRFIN20090713_022804_000000522080_00390_38520_0116.N1	13-JUL-2009 02:28:04	Straylight	52.000	172	Gam Gru	3.0030	13100.	104	38520	No
20	GOM_NL__2PRFIN20090713_024832_000000402080_00390_38520_0117.N1	13-JUL-2009 02:48:32	Bright	40.000	168	17Zet Aql	2.9860	11000.	80	38520	No
21	GOM_NL__2PRFIN20090713_025904_000000412080_00390_38520_0118.N1	13-JUL-2009 02:59:04	Bright	41.000	144	18Del Cyg	2.8600	11000.	82	38520	No
22	GOM_NL__2PRFIN20090713_030139_000000502080_00390_38520_0119.N1	13-JUL-2009 03:01:39	Bright	49.500	19	50Alp Cyg	1.2460	10500.	99	38520	No
23	GOM_NL__2PRFIN20090713_030617_000000442080_00390_38520_0120.N1	13-JUL-2009 03:06:17	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38520	No
24	GOM_NL__2PRFIN20090713_031347_000000502080_00390_38520_0121.N1	13-JUL-2009 03:13:47	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38520	No
25	GOM_NL__2PRFIN20090713_031601_000000412080_00390_38520_0122.N1	13-JUL-2009 03:16:01	Bright	40.500	110	37Del Cas	2.6780	8900.0	81	38520	No
26	GOM_NL__2PRFIN20090713_031951_000000372080_00390_38520_0123.N1	13-JUL-2009 03:19:51	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	38520	No
27	GOM_NL__2PRFIN20090713_032312_000000472080_00390_38520_0124.N1	13-JUL-2009 03:23:12	Bright	46.500	73	57Gam1And	2.2600	13100.	93	38520	No
28	GOM_NL__2PRFIN20090713_033657_000000452080_00390_38520_0125.N1	13-JUL-2009 03:36:57	Dark	45.000	94	92Alp Cet	2.5260	3100.0	90	38520	No
29	GOM_NL__2PRFIN20090713_035749_000000612080_00391_38521_0125.N1	13-JUL-2009 03:57:49	Dark	60.500	84	Alp Phe	2.3970	4500.0	121	38521	No
30	GOM_NL__2PRFIN20090713_040348_000000542080_00391_38521_0126.N1	13-JUL-2009 04:03:48	Straylight	54.000	63	Bet Gru	2.1500	2800.0	108	38521	No
31	GOM_NL__2PRFIN20090713_040529_000000482080_00391_38521_0127.N1	13-JUL-2009 04:05:29	Straylight	47.500	31	Alp Gru	1.7340	15200.	95	38521	No
32	GOM_NL__2PRFIN20090713_040840_000000532080_00391_38521_0128.N1	13-JUL-2009 04:08:40	Straylight	53.000	172	Gam Gru	3.0030	13100.	106	38521	No
33	GOM_NL__2PRFIN20090713_042908_000000412080_00391_38521_0129.N1	13-JUL-2009 04:29:08	Bright	41.000	168	17Zet Aql	2.9860	11000.	82	38521	No
34	GOM_NL__2PRFIN20090713_043939_000000422080_00391_38521_0130.N1	13-JUL-2009 04:39:39	Bright	42.000	144	18Del Cyg	2.8600	11000.	84	38521	No
35	GOM_NL__2PRFIN20090713_044214_000000522080_00391_38521_0131.N1	13-JUL-2009 04:42:14	Bright	52.000	19	50Alp Cyg	1.2460	10500.	104	38521	No
36	GOM_NL__2PRFIN20090713_044653_000000452080_00391_38521_0132.N1	13-JUL-2009 04:46:53	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	38521	No
37	GOM_NL__2PRFIN20090713_045423_000000732080_00391_38521_0133.N1	13-JUL-2009 04:54:23	Bright	73.000	74	11Bet Cas	2.2680	6600.0	146	38521	No
38	GOM_NL__2PRFIN20090713_045636_000000662080_00391_38521_0134.N1	13-JUL-2009 04:56:36	Bright	66.000	110	37Del Cas	2.6780	8900.0	132	38521	No
39	GOM_NL__2PRFIN20090713_050027_000000402080_00391_38521_0135.N1	13-JUL-2009 05:00:27	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	38521	No
40	GOM_NL__2PRFIN20090713_050348_000000472080_00391_38521_0136.N1	13-JUL-2009 05:03:48	Bright	47.000	73	57Gam1And	2.2600	13100.	94	38521	No
41	GOM_NL__2PRFIN20090713_051733_000000462080_00391_38521_0137.N1	13-JUL-2009 05:17:33	Dark	45.500	94	92Alp Cet	2.5260	3100.0	91	38521	No
42	GOM_NL__2PRFIN20090713_053826_000000562080_00392_38522_0143.N1	13-JUL-2009 05:38:26	Dark	56.000	84	Alp Phe	2.3970	4500.0	112	38522	No

161	GOM_NL__2PRFIN20090713_214232_000000662080_00401_38531_0306.N1	13-JUL-2009 21:42:32	Bright	66.000	110	37Del Cas	2.6780	8900.0	132	38531	No
162	GOM_NL__2PRFIN20090713_214625_000000412080_00401_38531_0307.N1	13-JUL-2009 21:46:25	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	38531	No
163	GOM_NL__2PRFIN20090713_214744_000000412080_00401_38531_0308.N1	13-JUL-2009 21:47:44	Bright	41.000	35	33Alp Per	1.7950	6250.0	82	38531	No
164	GOM_NL__2PRFIN20090713_214945_000000602080_00401_38531_0309.N1	13-JUL-2009 21:49:45	Bright	60.000	73	57Gam1And	2.2600	13100.	120	38531	No
165	GOM_NL__2PRFIN20090713_220340_000000582080_00401_38531_0310.N1	13-JUL-2009 22:03:40	Dark	58.000	94	92Alp Cet	2.5260	3100.0	116	38531	No
166	GOM_NL__2PRFIN20090713_222437_000000532080_00402_38532_0315.N1	13-JUL-2009 22:24:37	Dark	53.000	84	Alp Phe	2.3970	4500.0	106	38532	No
167	GOM_NL__2PRFIN20090713_223033_000000602080_00402_38532_0316.N1	13-JUL-2009 22:30:33	Straylight	60.000	63	Bet Gru	2.1500	2800.0	120	38532	No
168	GOM_NL__2PRFIN20090713_223212_000000542080_00402_38532_0317.N1	13-JUL-2009 22:32:12	Straylight	53.500	31	Alp Gru	1.7340	15200.	107	38532	No
169	GOM_NL__2PRFIN20090713_223524_000000532080_00402_38532_0318.N1	13-JUL-2009 22:35:24	Straylight	53.000	172	Gam Gru	3.0030	13100.	106	38532	No
170	GOM_NL__2PRFIN20090713_225541_000000412080_00402_38532_0319.N1	13-JUL-2009 22:55:41	Bright	40.500	168	17Zet Aql	2.9860	11000.	81	38532	No
171	GOM_NL__2PRFIN20090713_230608_000000582080_00402_38532_0320.N1	13-JUL-2009 23:06:08	Bright	57.500	144	18Del Cyg	2.8600	11000.	115	38532	No
172	GOM_NL__2PRFIN20090713_230839_000000522080_00402_38532_0321.N1	13-JUL-2009 23:08:39	Bright	51.500	19	50Alp Cyg	1.2460	10500.	103	38532	No
173	GOM_NL__2PRFIN20090713_231321_000000402080_00402_38532_0322.N1	13-JUL-2009 23:13:21	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	38532	No
174	GOM_NL__2PRFIN20090713_232051_000000522080_00402_38532_0323.N1	13-JUL-2009 23:20:51	Bright	52.000	74	11Bet Cas	2.2680	6600.0	104	38532	No
175	GOM_NL__2PRFIN20090713_232307_000000452080_00402_38532_0324.N1	13-JUL-2009 23:23:07	Bright	44.500	110	37Del Cas	2.6780	8900.0	89	38532	No
176	GOM_NL__2PRFIN20090713_232700_000000552080_00402_38532_0325.N1	13-JUL-2009 23:27:00	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	38532	No
177	GOM_NL__2PRFIN20090713_232820_000000432080_00402_38532_0326.N1	13-JUL-2009 23:28:20	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	38532	No
178	GOM_NL__2PRFIN20090713_233021_000000542080_00402_38532_0327.N1	13-JUL-2009 23:30:21	Bright	54.000	73	57Gam1And	2.2600	13100.	108	38532	No
179	GOM_NL__2PRFIN20090713_234416_000000622080_00402_38532_0328.N1	13-JUL-2009 23:44:16	Dark	61.500	94	92Alp Cet	2.5260	3100.0	123	38532	No

3. Quality information per product

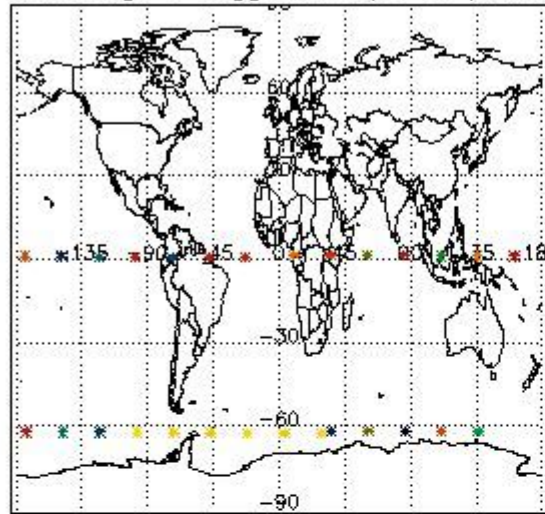
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

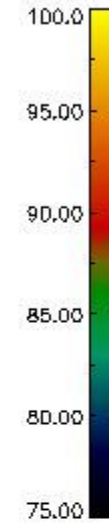
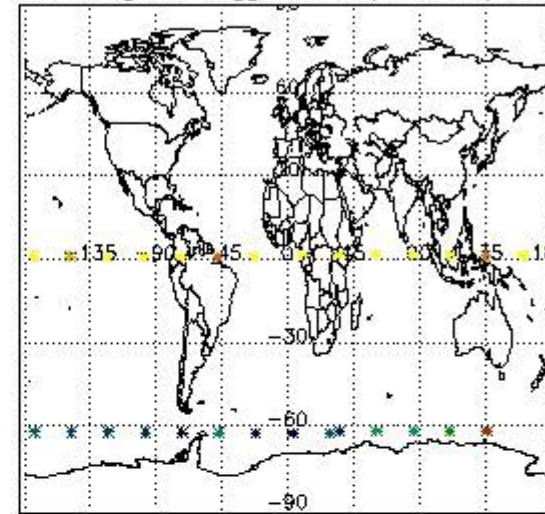


3.2 Plot quality information per product (world map)

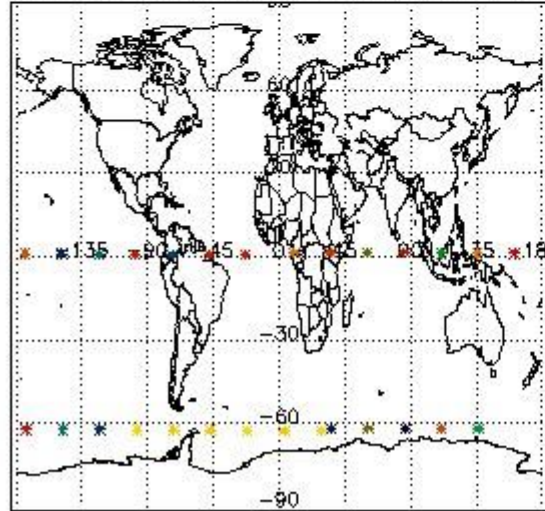
Percentage of flagged data per O3 profile



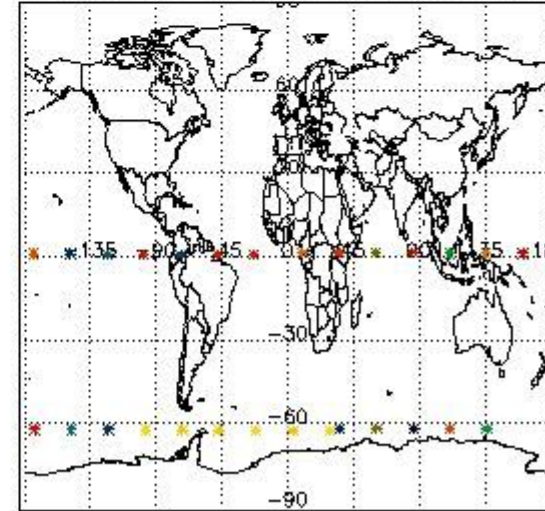
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

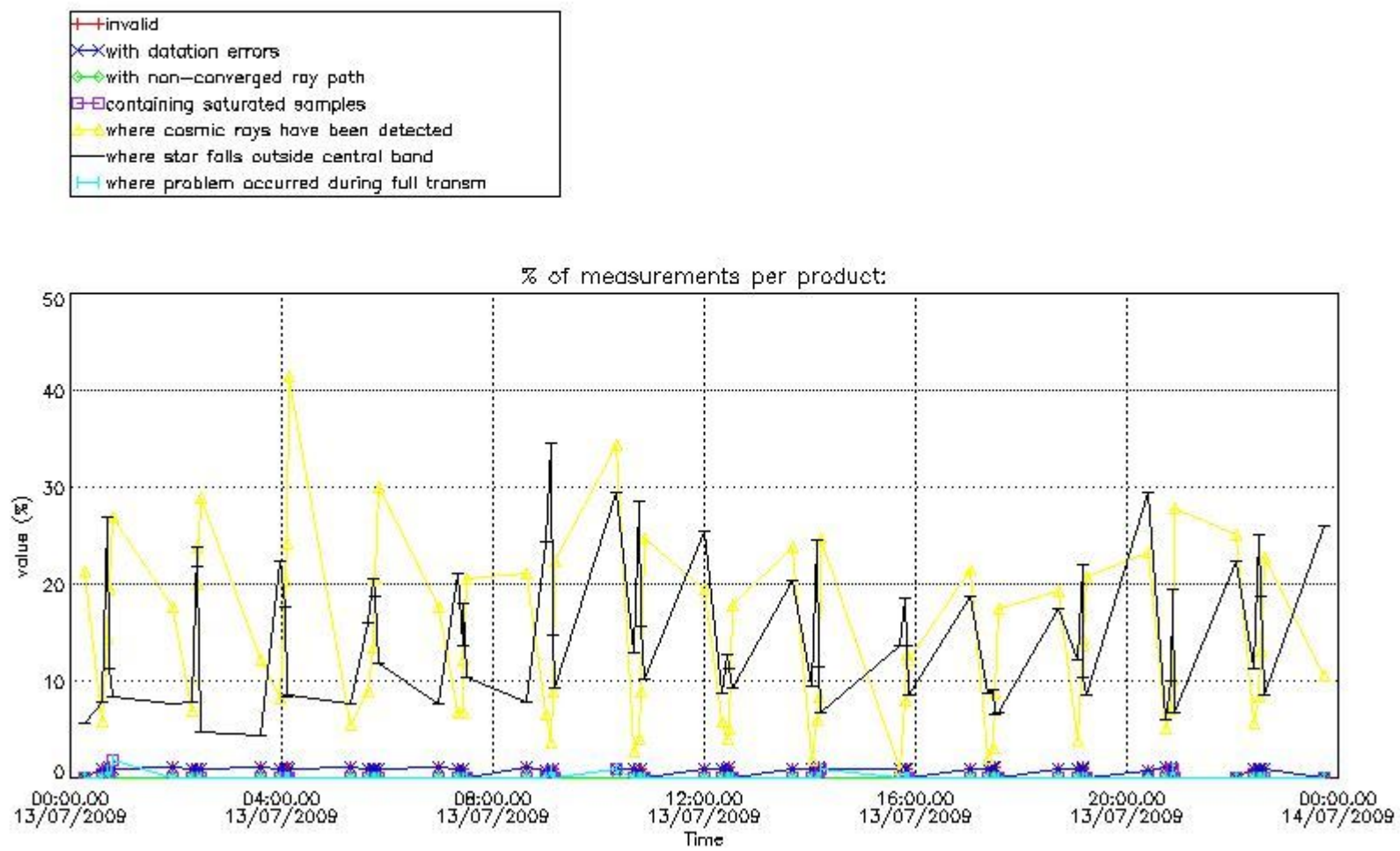


4. Level 1 quality information per product

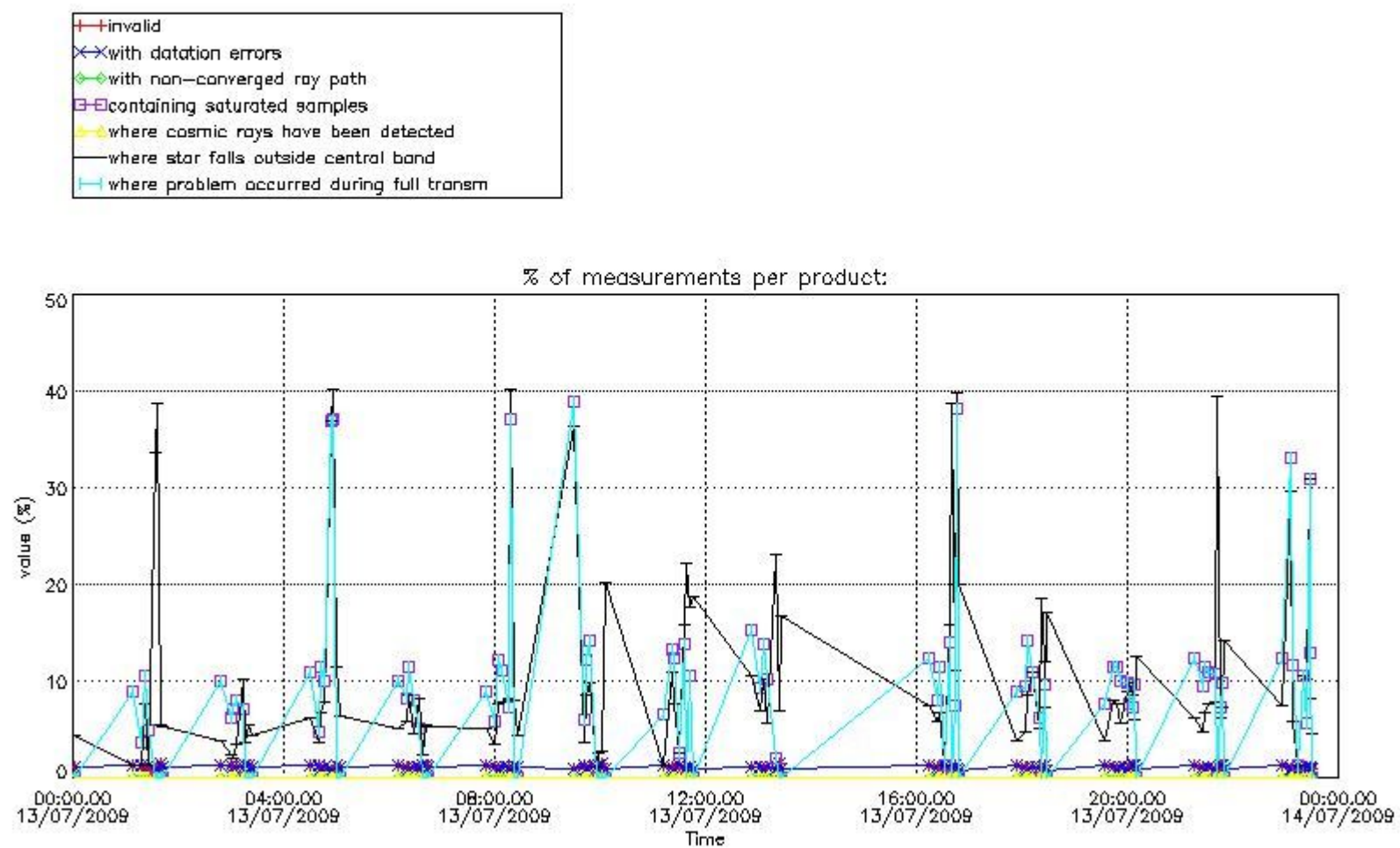
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



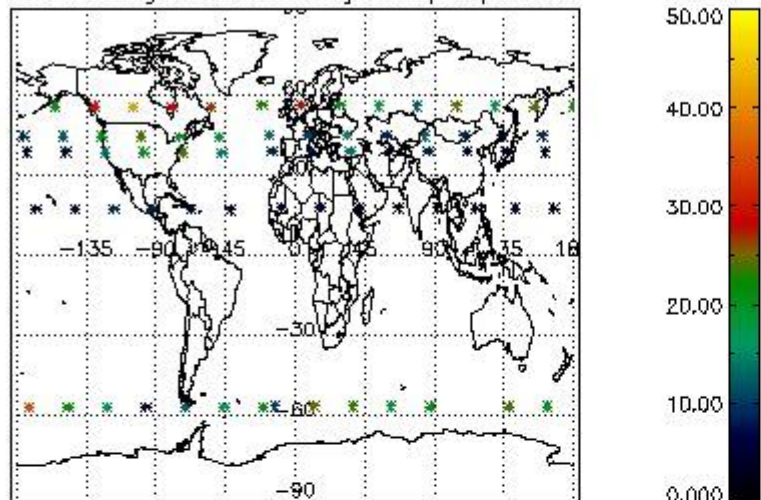
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



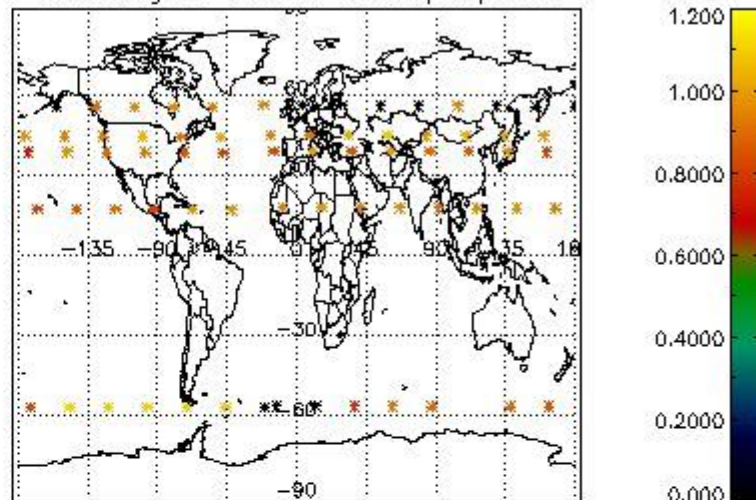
4.2 Plot quality information per product coming from level 1b processing (world map)

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

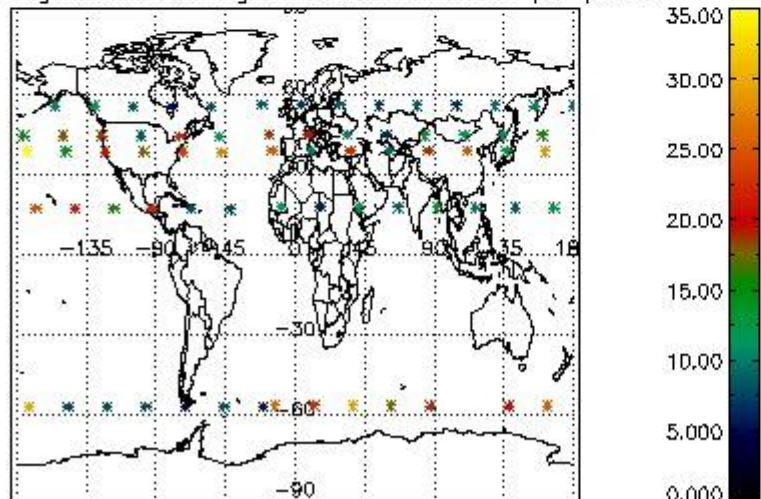
Percentage of cosmic ray hits per profile



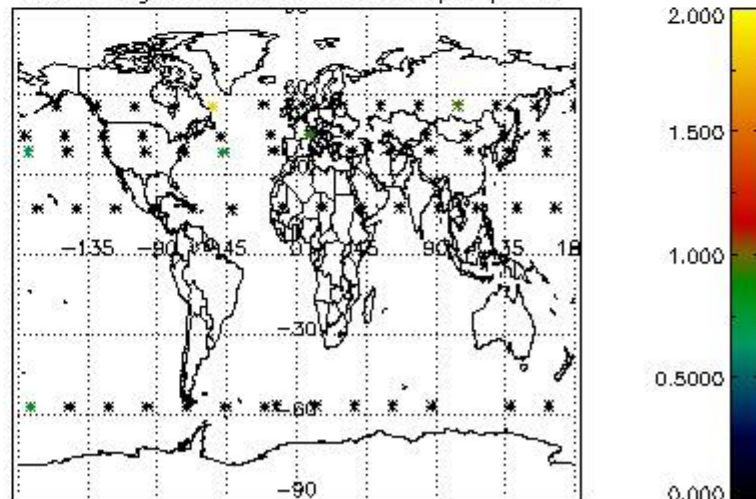
Percentage of datation errors per profile



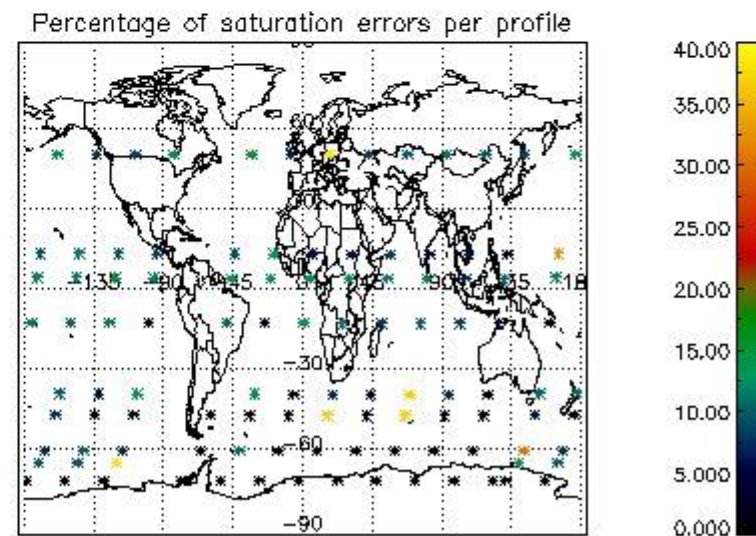
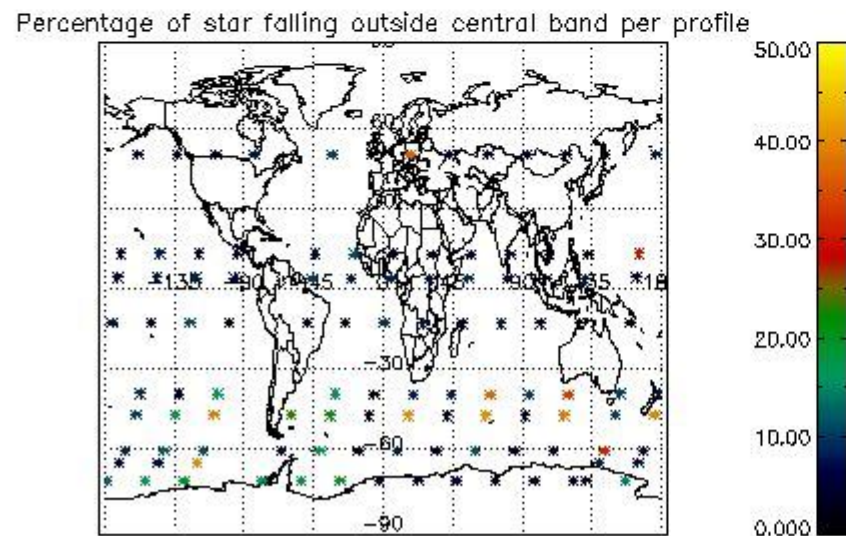
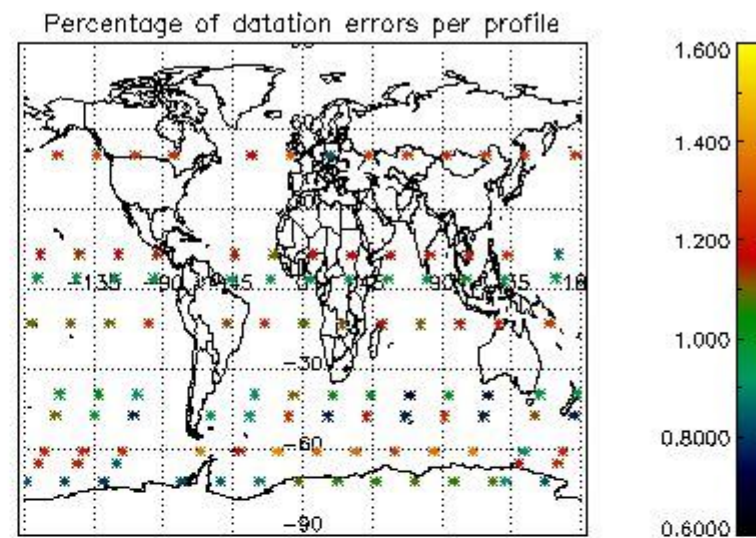
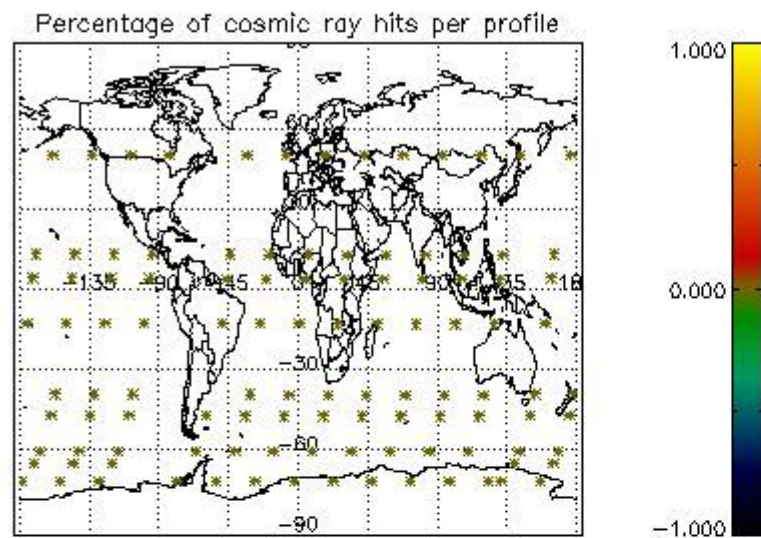
Percentage of star falling outside central band per profile



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

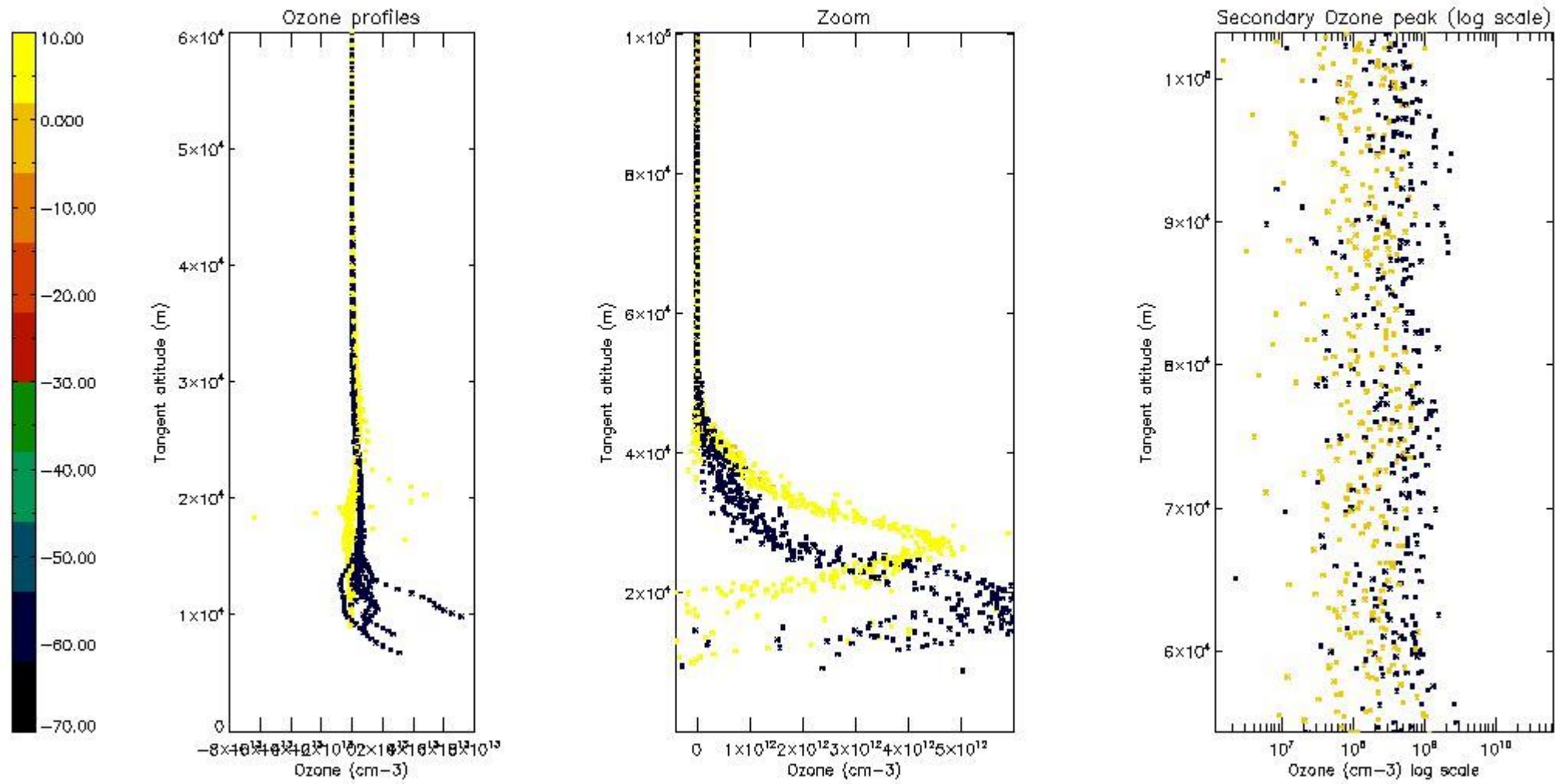
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	17
STD < 20	4

STD < 10	2
STD < 5	0

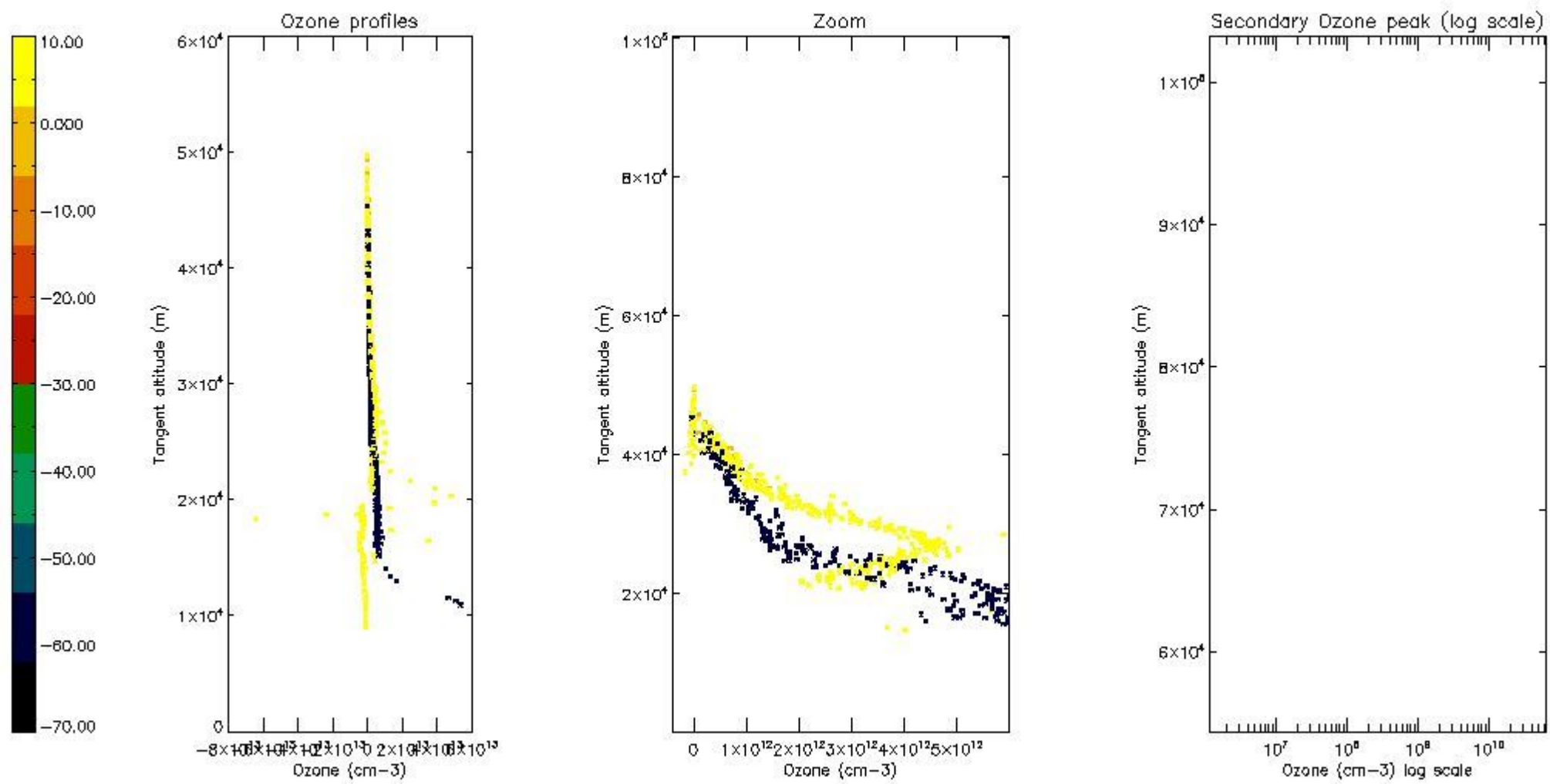
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



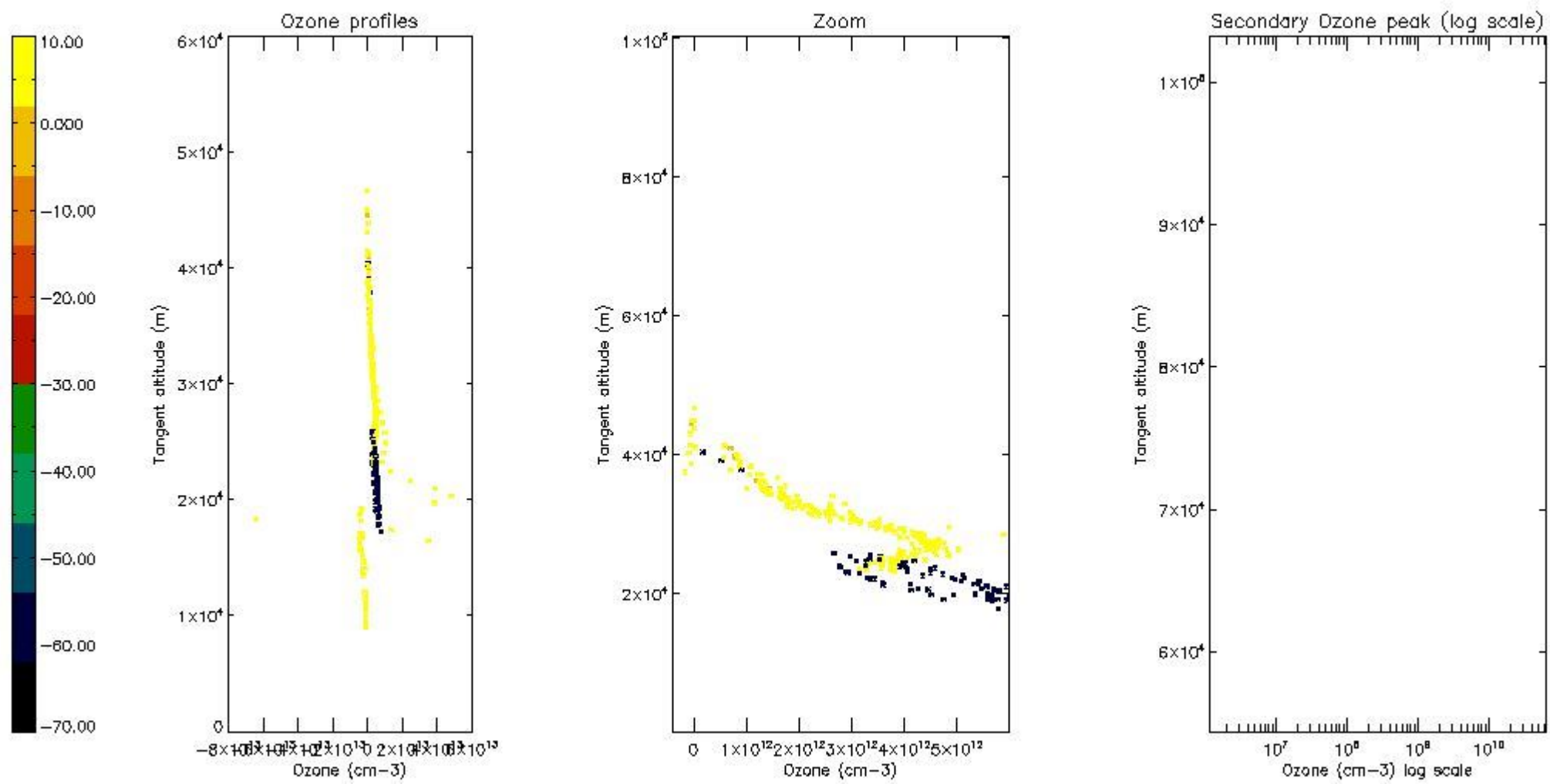
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



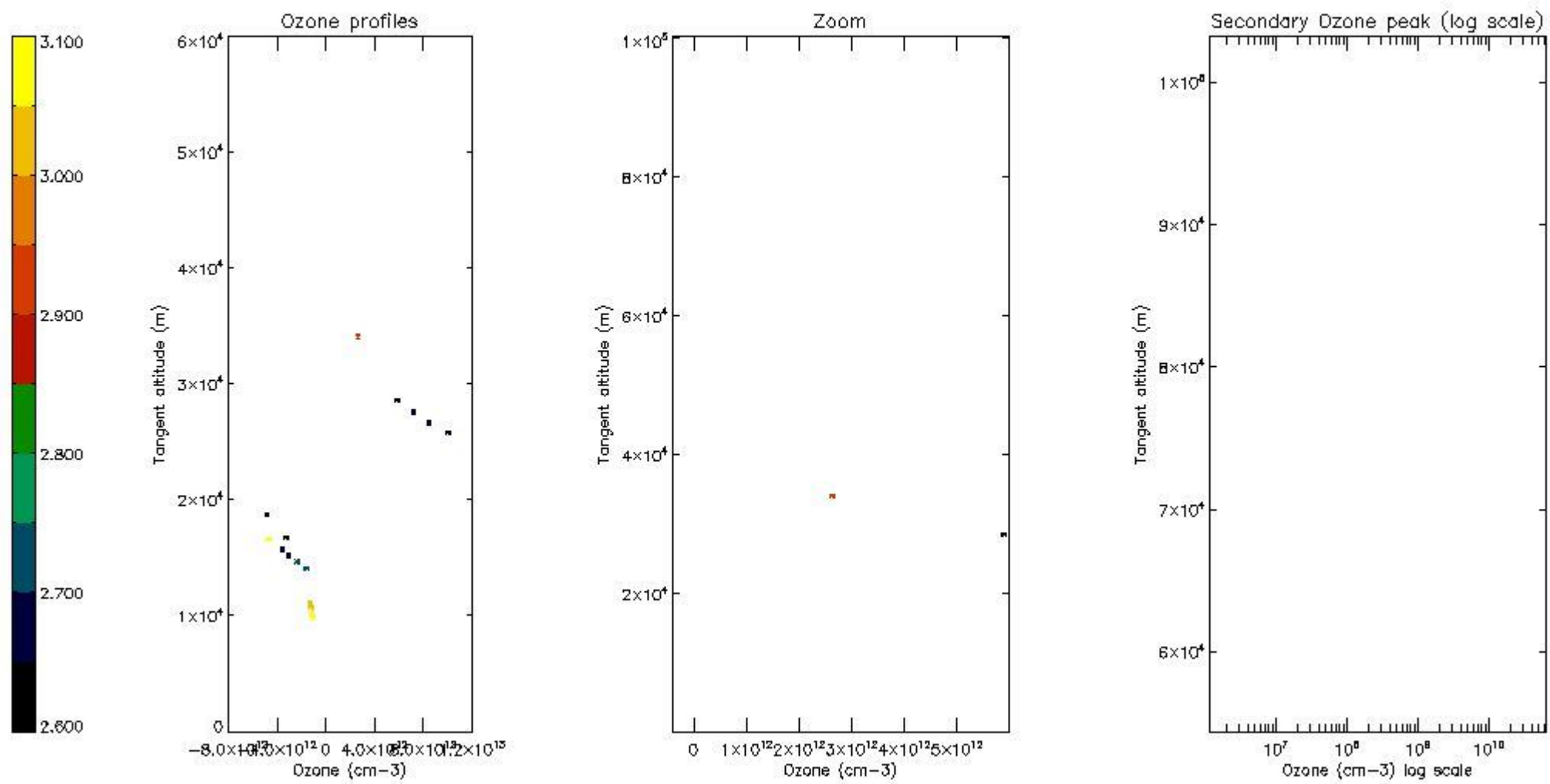
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



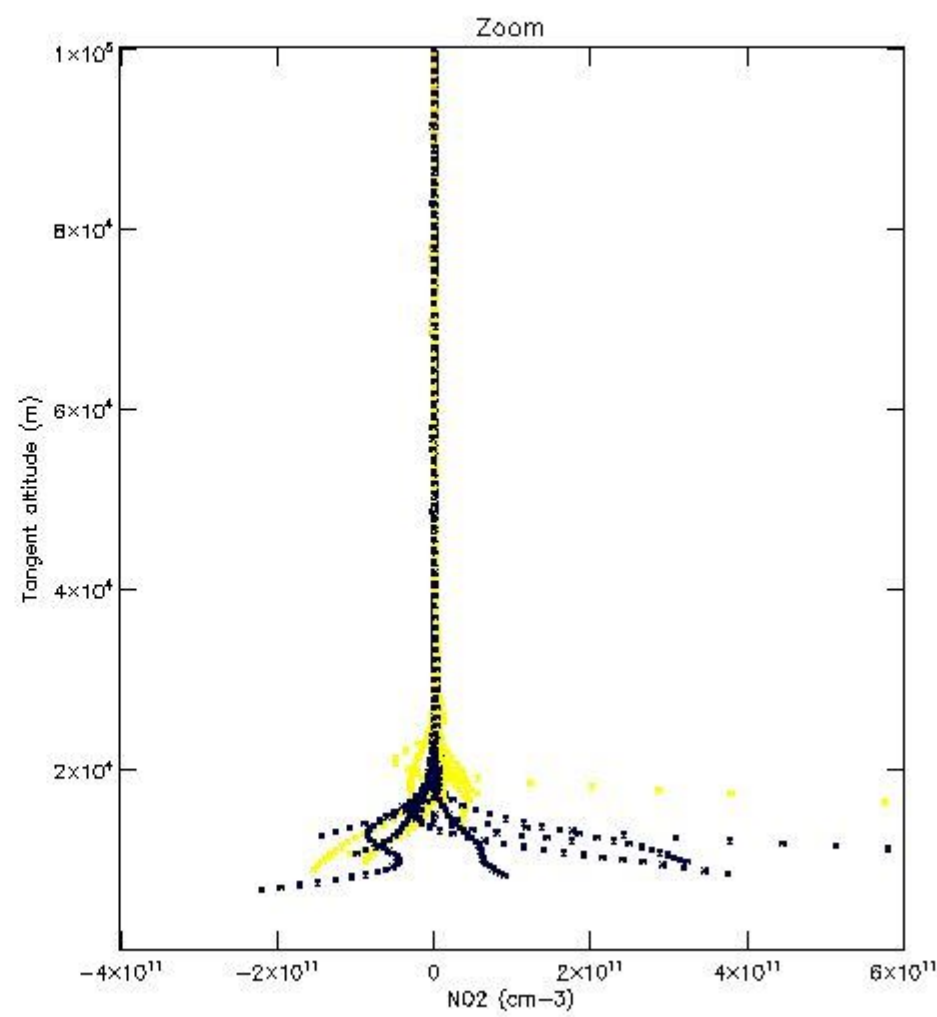
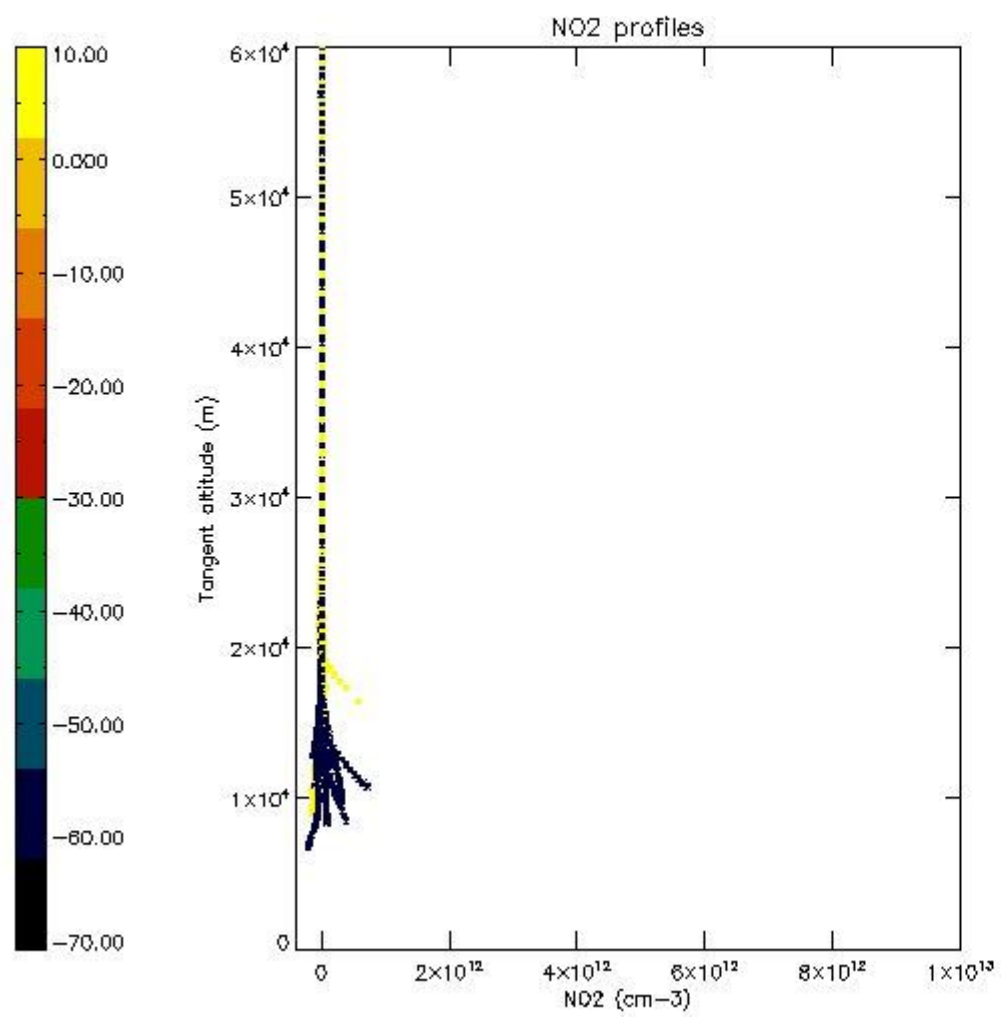
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



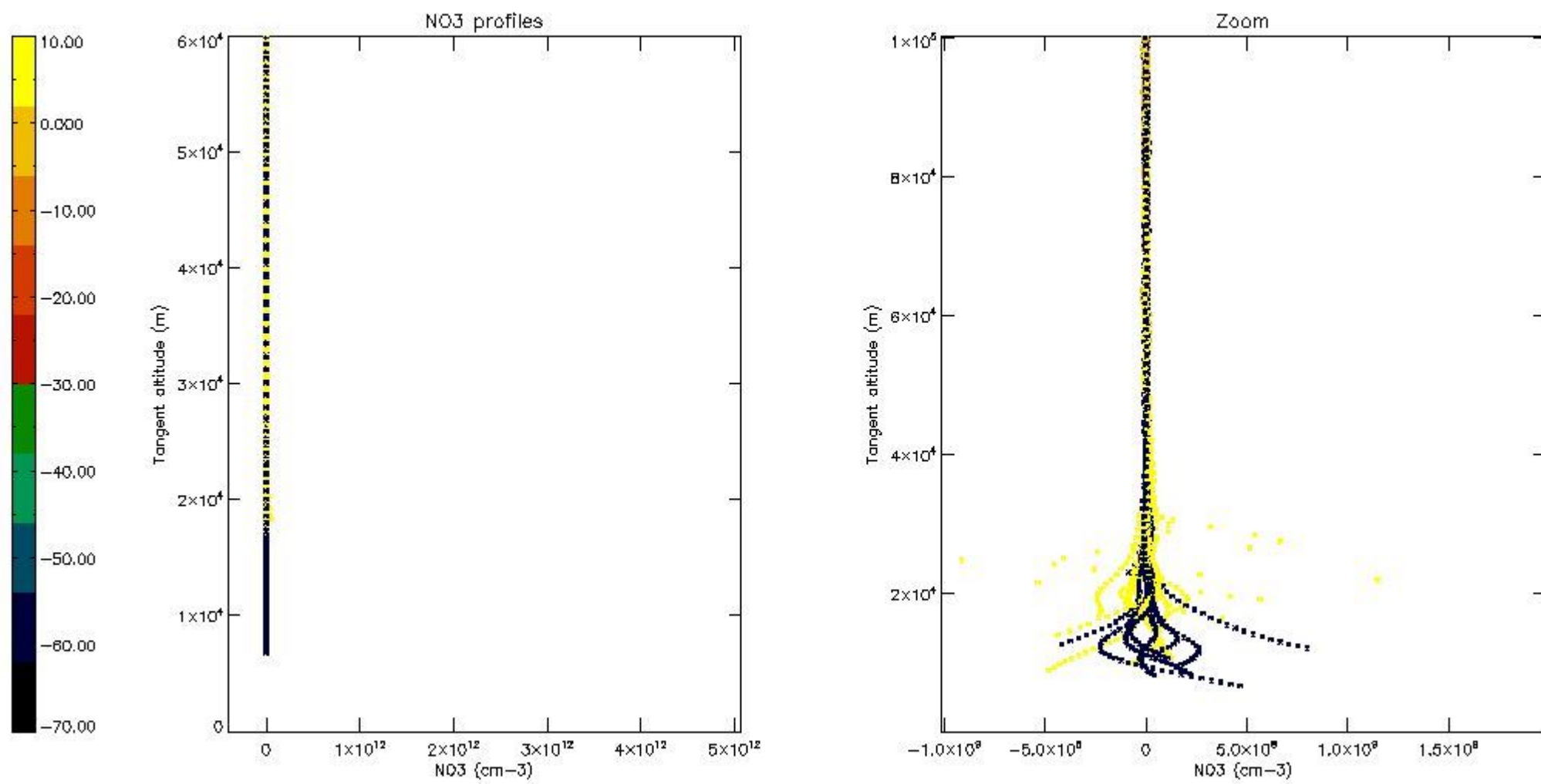
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



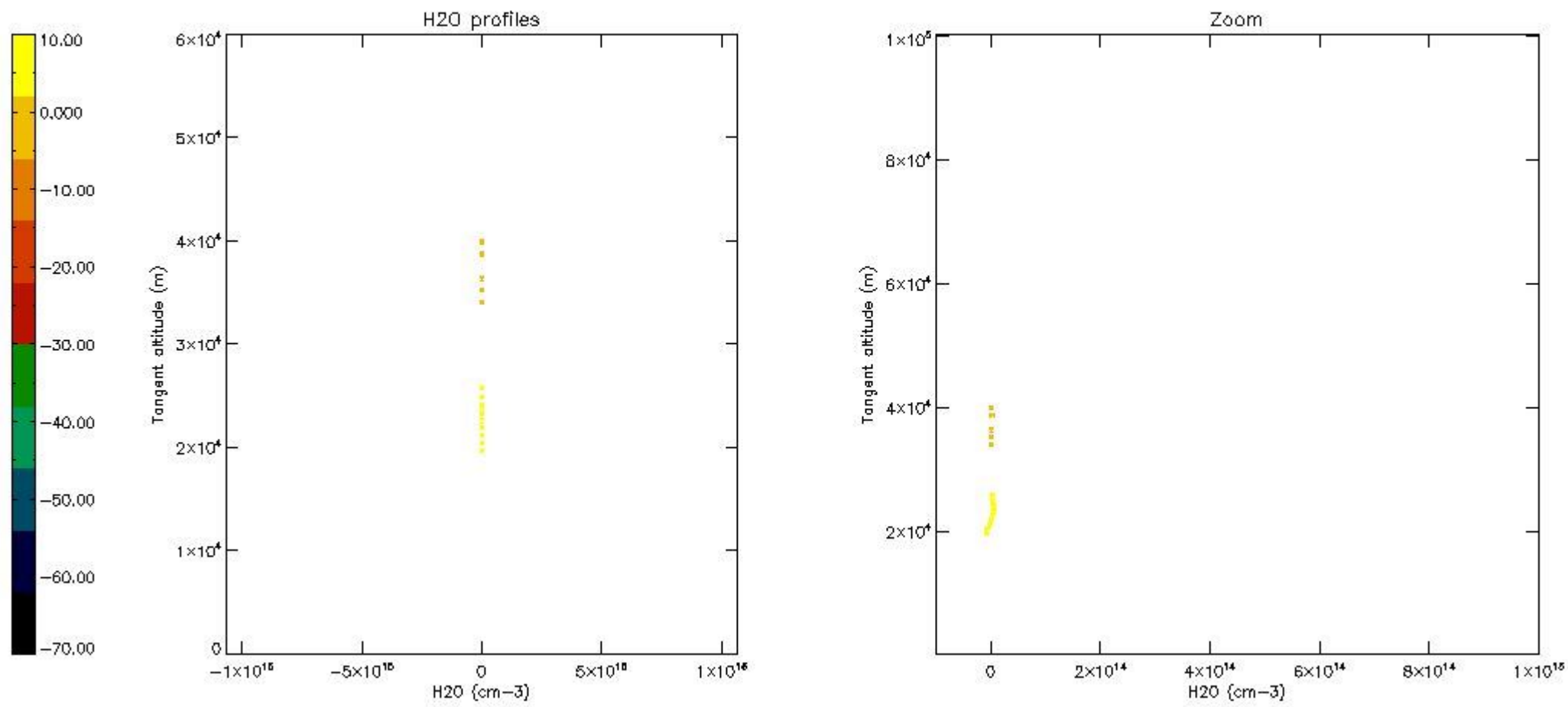
5.7 Plot NO3 profiles for all STD (dark without errors)

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	13-JUL-2009 00:02:00
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-JUL-2009 00:02:00
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-JUL-2009 00:02:00

GOMOS Level 2 Daily Report

SUMMARY

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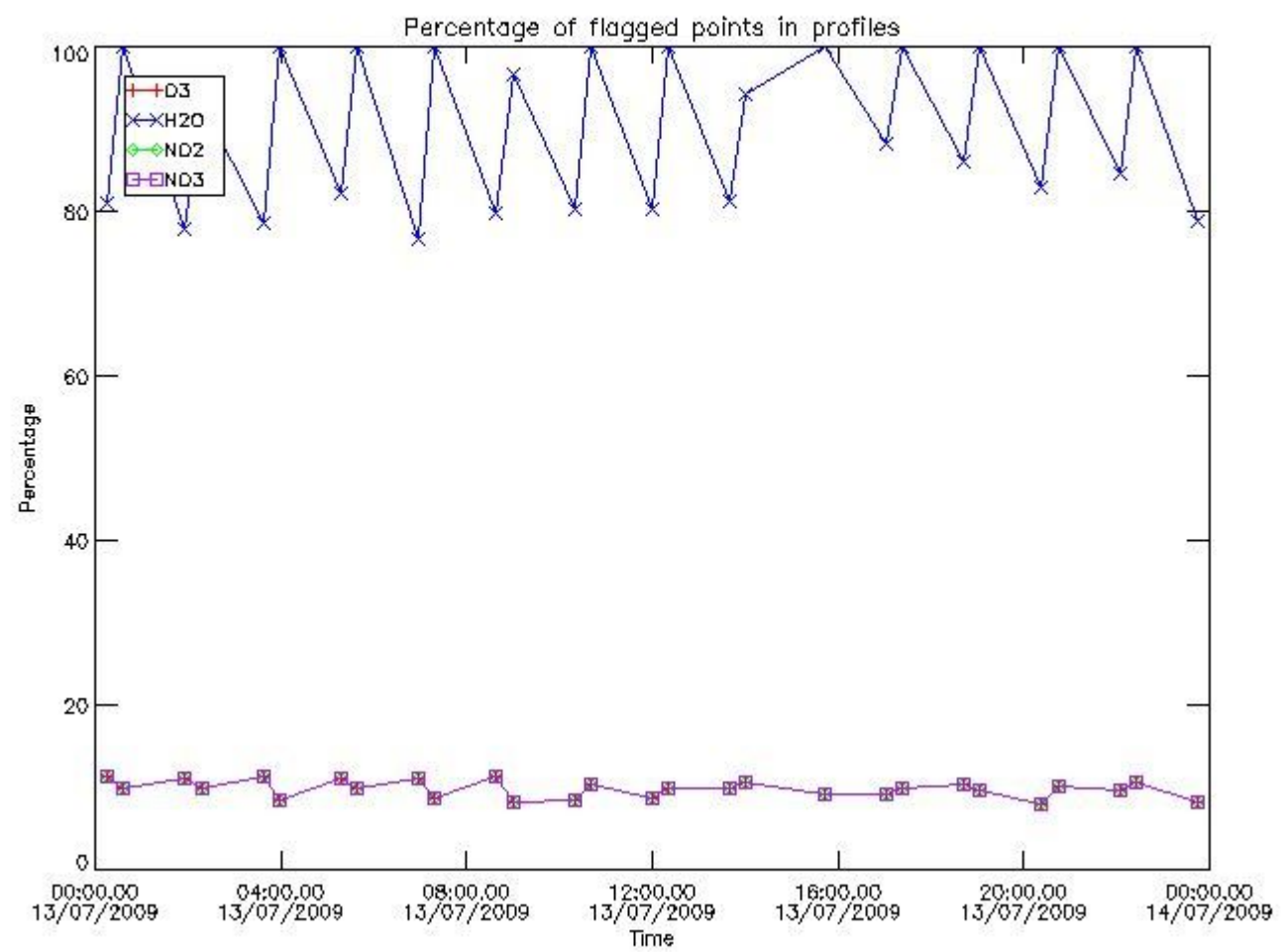
[6. Auxiliary Data Files used for the production reported in section 2](#)

161	GOM_NL__2PRFIN20090713_214232_000000662080_00401_38531_0306.N1	13-JUL-2009 21:42:32	Bright	66.000	110	37Del Cas	2.6780	8900.0	132	38531	No
162	GOM_NL__2PRFIN20090713_214625_000000412080_00401_38531_0307.N1	13-JUL-2009 21:46:25	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	38531	No
163	GOM_NL__2PRFIN20090713_214744_000000412080_00401_38531_0308.N1	13-JUL-2009 21:47:44	Bright	41.000	35	33Alp Per	1.7950	6250.0	82	38531	No
164	GOM_NL__2PRFIN20090713_214945_000000602080_00401_38531_0309.N1	13-JUL-2009 21:49:45	Bright	60.000	73	57Gam1And	2.2600	13100.	120	38531	No
165	GOM_NL__2PRFIN20090713_220340_000000582080_00401_38531_0310.N1	13-JUL-2009 22:03:40	Dark	58.000	94	92Alp Cet	2.5260	3100.0	116	38531	No
166	GOM_NL__2PRFIN20090713_222437_000000532080_00402_38532_0315.N1	13-JUL-2009 22:24:37	Dark	53.000	84	Alp Phe	2.3970	4500.0	106	38532	No
167	GOM_NL__2PRFIN20090713_223033_000000602080_00402_38532_0316.N1	13-JUL-2009 22:30:33	Straylight	60.000	63	Bet Gru	2.1500	2800.0	120	38532	No
168	GOM_NL__2PRFIN20090713_223212_000000542080_00402_38532_0317.N1	13-JUL-2009 22:32:12	Straylight	53.500	31	Alp Gru	1.7340	15200.	107	38532	No
169	GOM_NL__2PRFIN20090713_223524_000000532080_00402_38532_0318.N1	13-JUL-2009 22:35:24	Straylight	53.000	172	Gam Gru	3.0030	13100.	106	38532	No
170	GOM_NL__2PRFIN20090713_225541_000000412080_00402_38532_0319.N1	13-JUL-2009 22:55:41	Bright	40.500	168	17Zet Aql	2.9860	11000.	81	38532	No
171	GOM_NL__2PRFIN20090713_230608_000000582080_00402_38532_0320.N1	13-JUL-2009 23:06:08	Bright	57.500	144	18Del Cyg	2.8600	11000.	115	38532	No
172	GOM_NL__2PRFIN20090713_230839_000000522080_00402_38532_0321.N1	13-JUL-2009 23:08:39	Bright	51.500	19	50Alp Cyg	1.2460	10500.	103	38532	No
173	GOM_NL__2PRFIN20090713_231321_000000402080_00402_38532_0322.N1	13-JUL-2009 23:13:21	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	38532	No
174	GOM_NL__2PRFIN20090713_232051_000000522080_00402_38532_0323.N1	13-JUL-2009 23:20:51	Bright	52.000	74	11Bet Cas	2.2680	6600.0	104	38532	No
175	GOM_NL__2PRFIN20090713_232307_000000452080_00402_38532_0324.N1	13-JUL-2009 23:23:07	Bright	44.500	110	37Del Cas	2.6780	8900.0	89	38532	No
176	GOM_NL__2PRFIN20090713_232700_000000552080_00402_38532_0325.N1	13-JUL-2009 23:27:00	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	38532	No
177	GOM_NL__2PRFIN20090713_232820_000000432080_00402_38532_0326.N1	13-JUL-2009 23:28:20	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	38532	No
178	GOM_NL__2PRFIN20090713_233021_000000542080_00402_38532_0327.N1	13-JUL-2009 23:30:21	Bright	54.000	73	57Gam1And	2.2600	13100.	108	38532	No
179	GOM_NL__2PRFIN20090713_234416_000000622080_00402_38532_0328.N1	13-JUL-2009 23:44:16	Dark	61.500	94	92Alp Cet	2.5260	3100.0	123	38532	No

3. Quality information per product

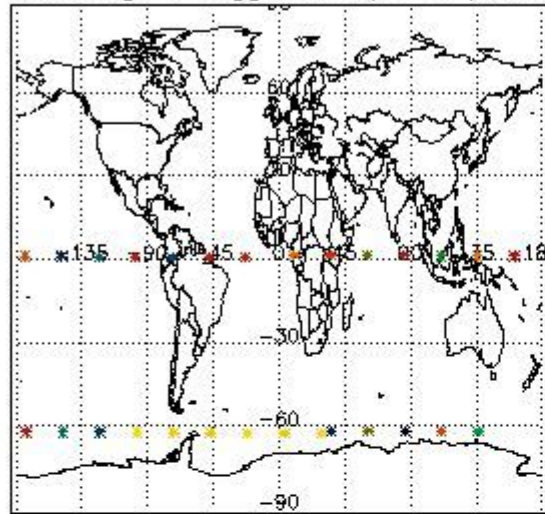
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

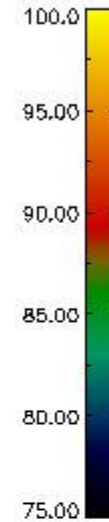
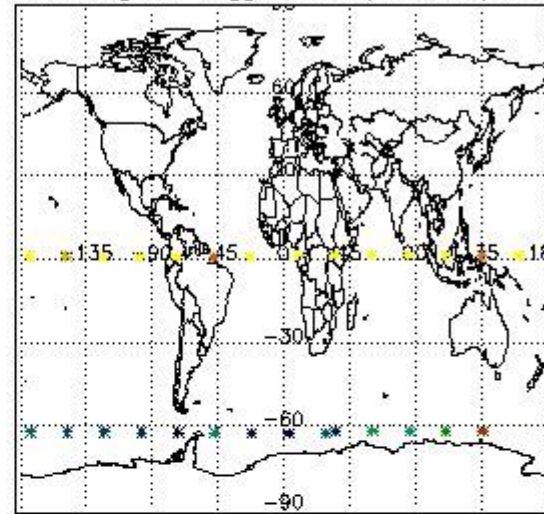


3.2 Plot quality information per product (world map)

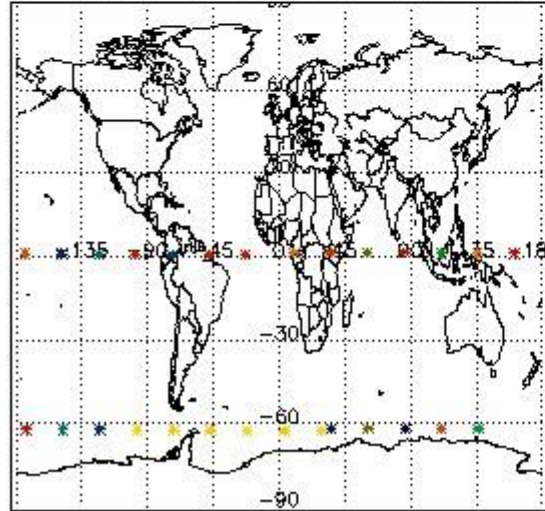
Percentage of flagged data per O3 profile



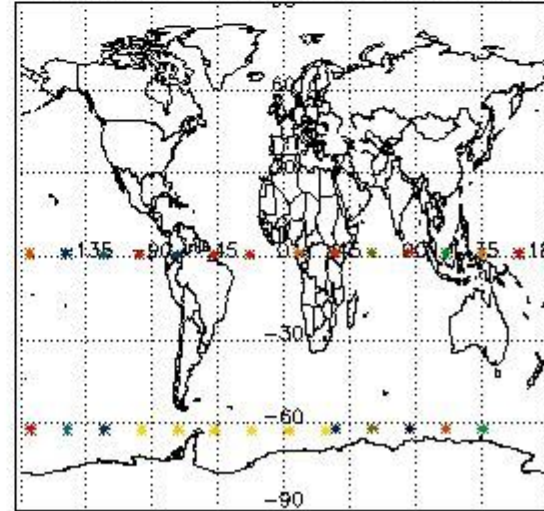
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

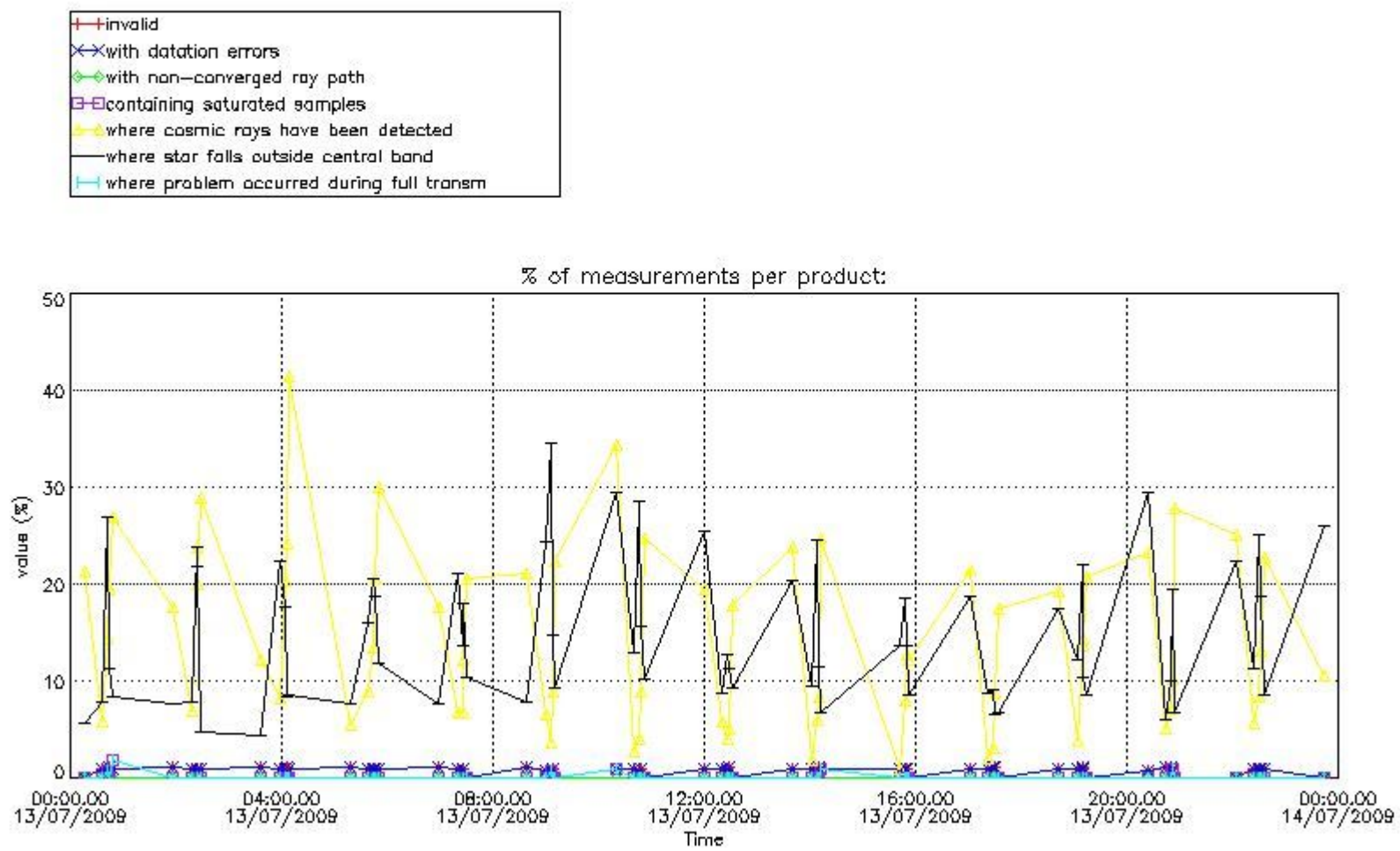


4. Level 1 quality information per product

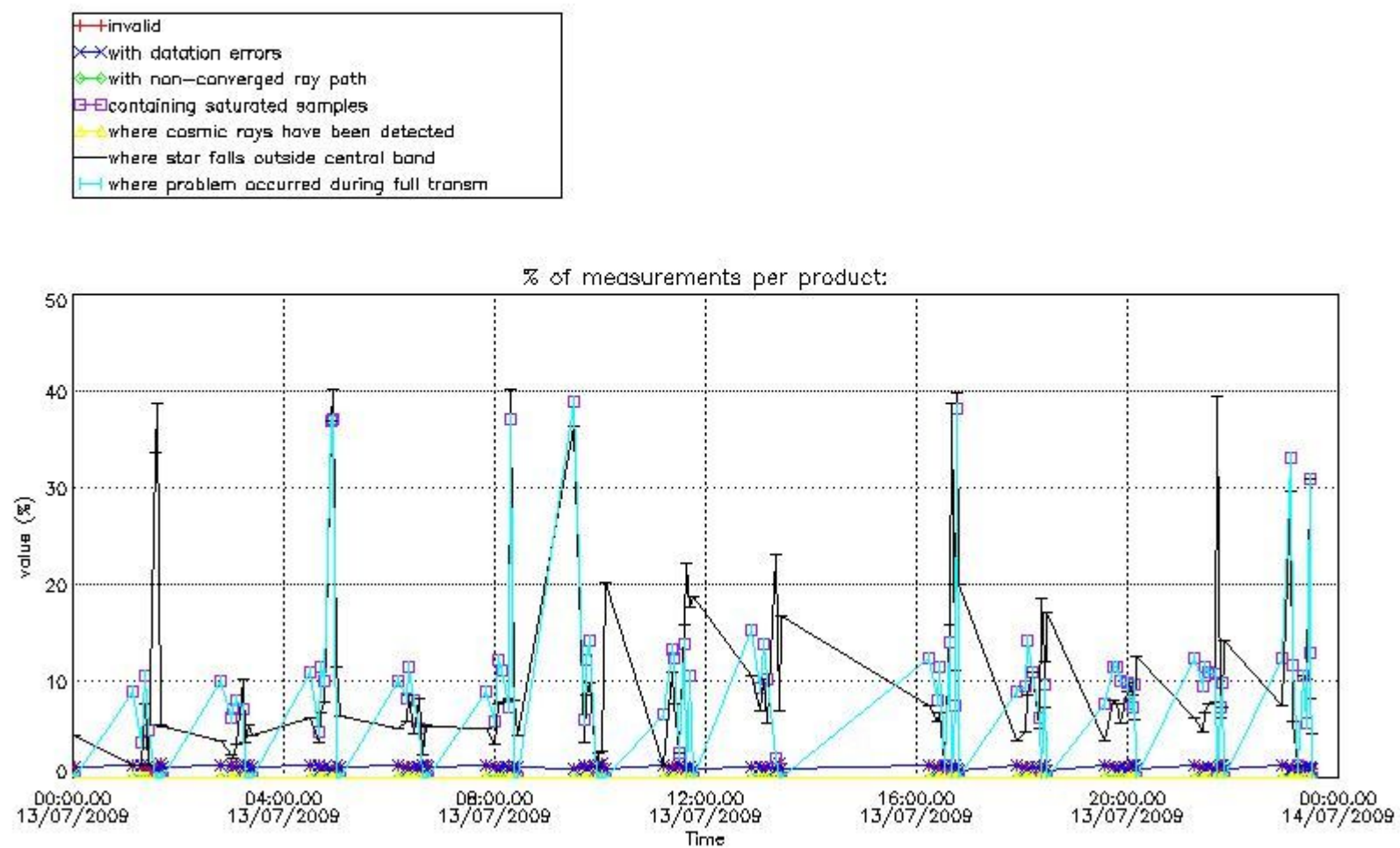
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



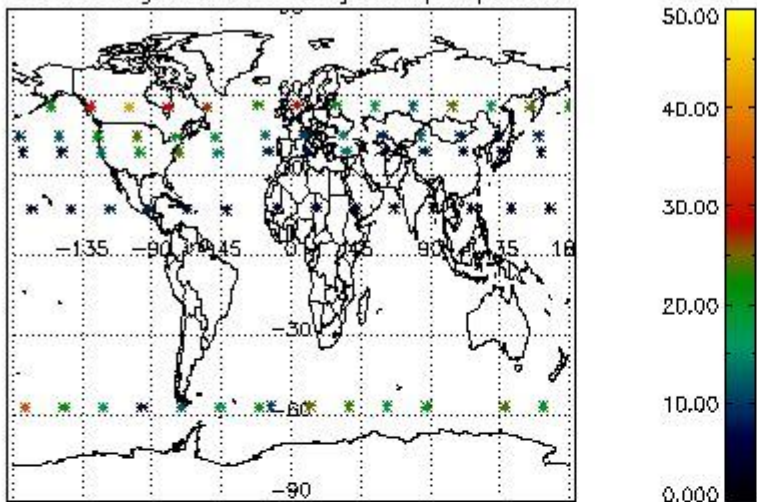
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



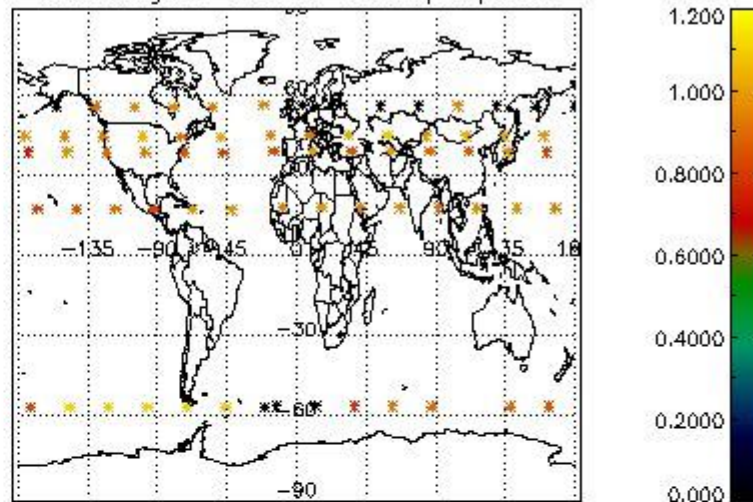
4.2 Plot quality information per product coming from level 1b processing (world map)

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

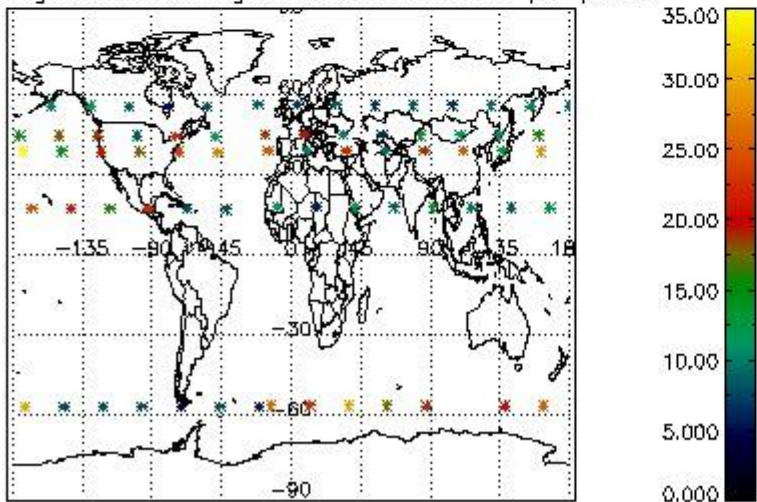
Percentage of cosmic ray hits per profile



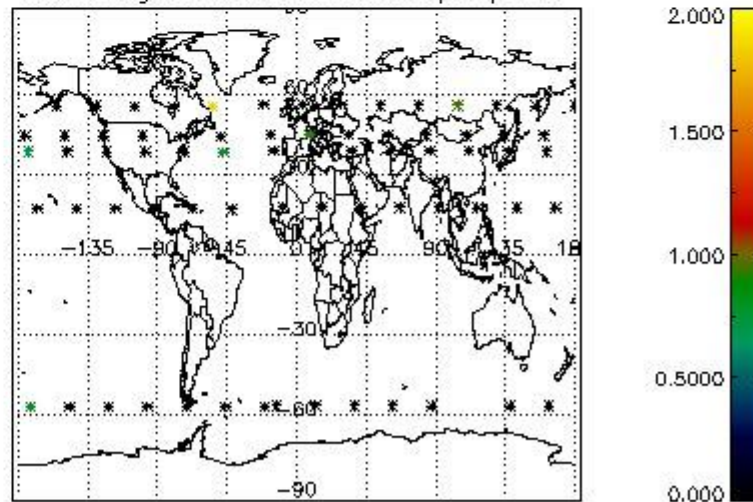
Percentage of datation errors per profile



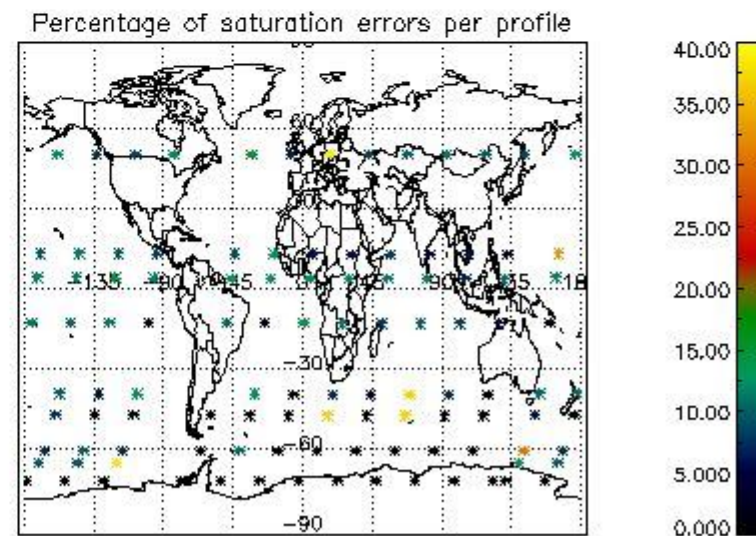
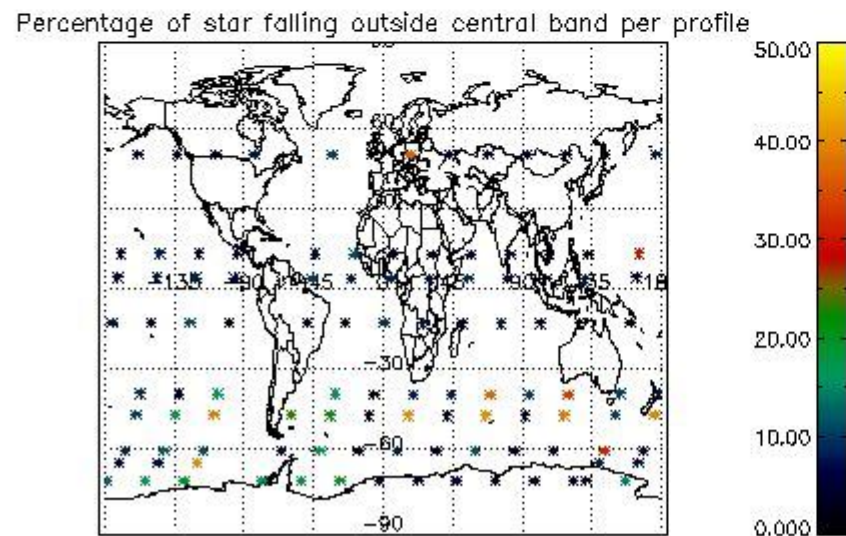
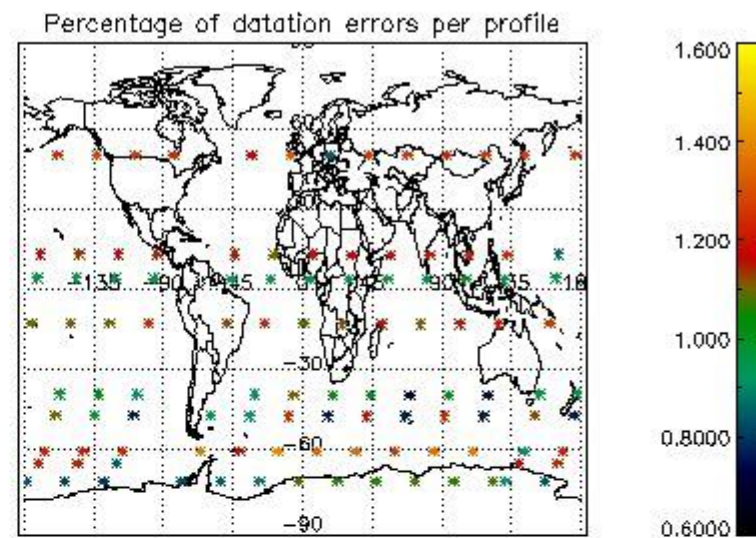
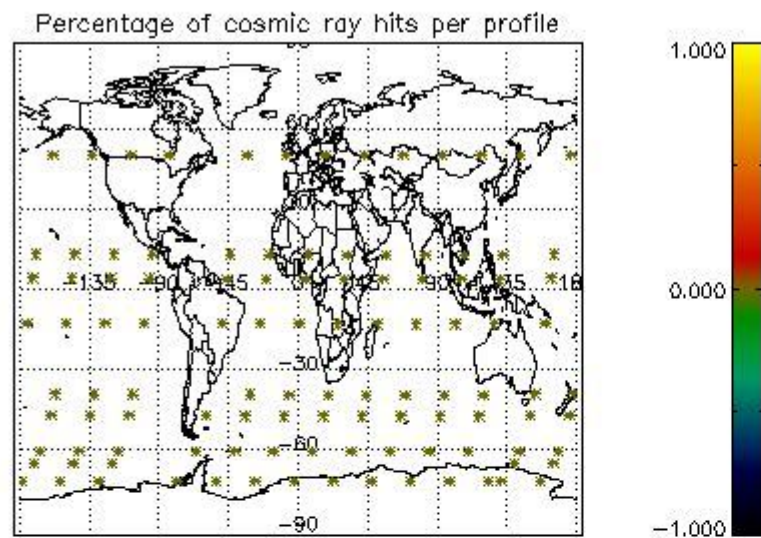
Percentage of star falling outside central band per profile



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

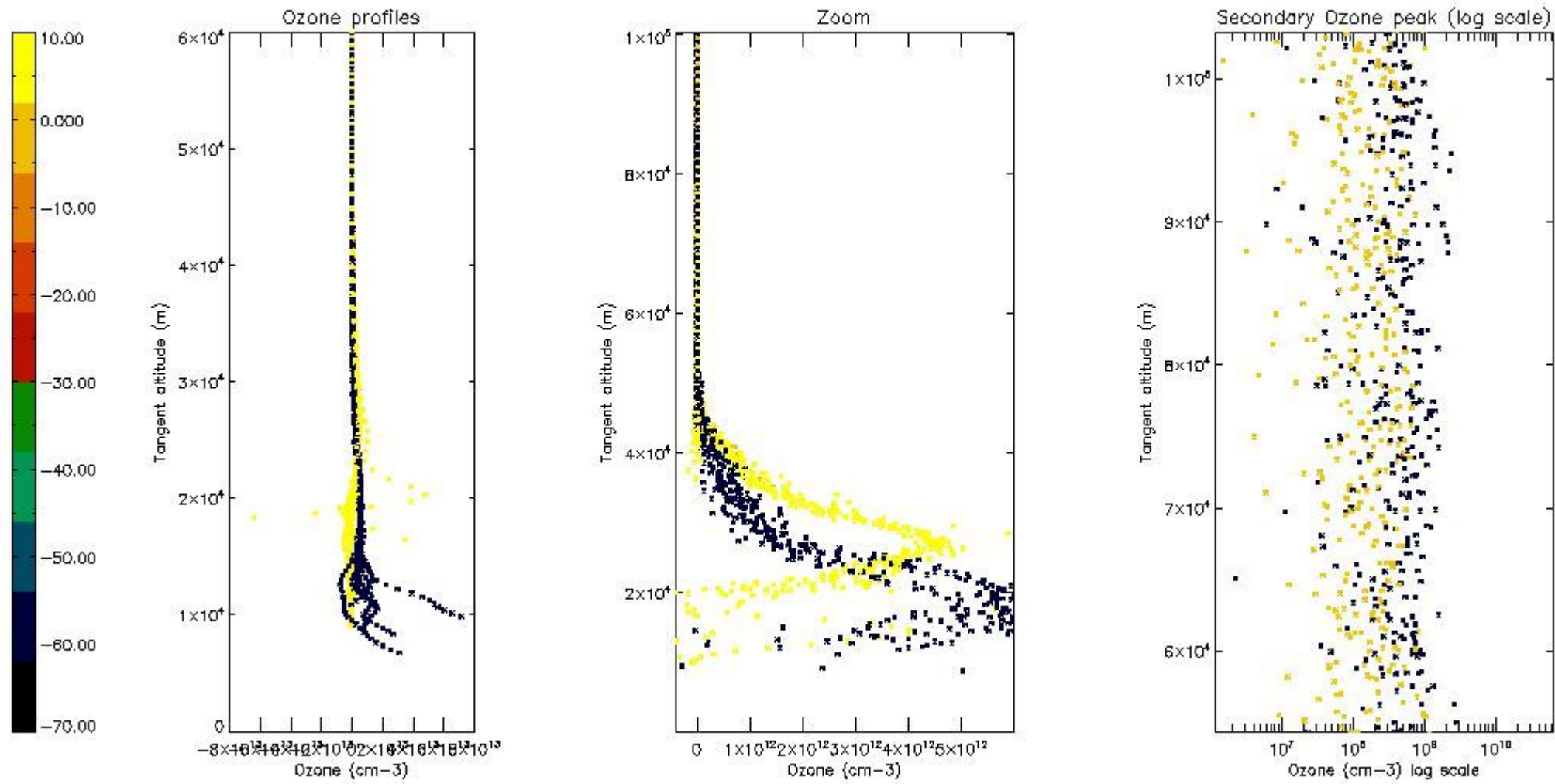
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	17
STD < 20	4

STD < 10	2
STD < 5	0

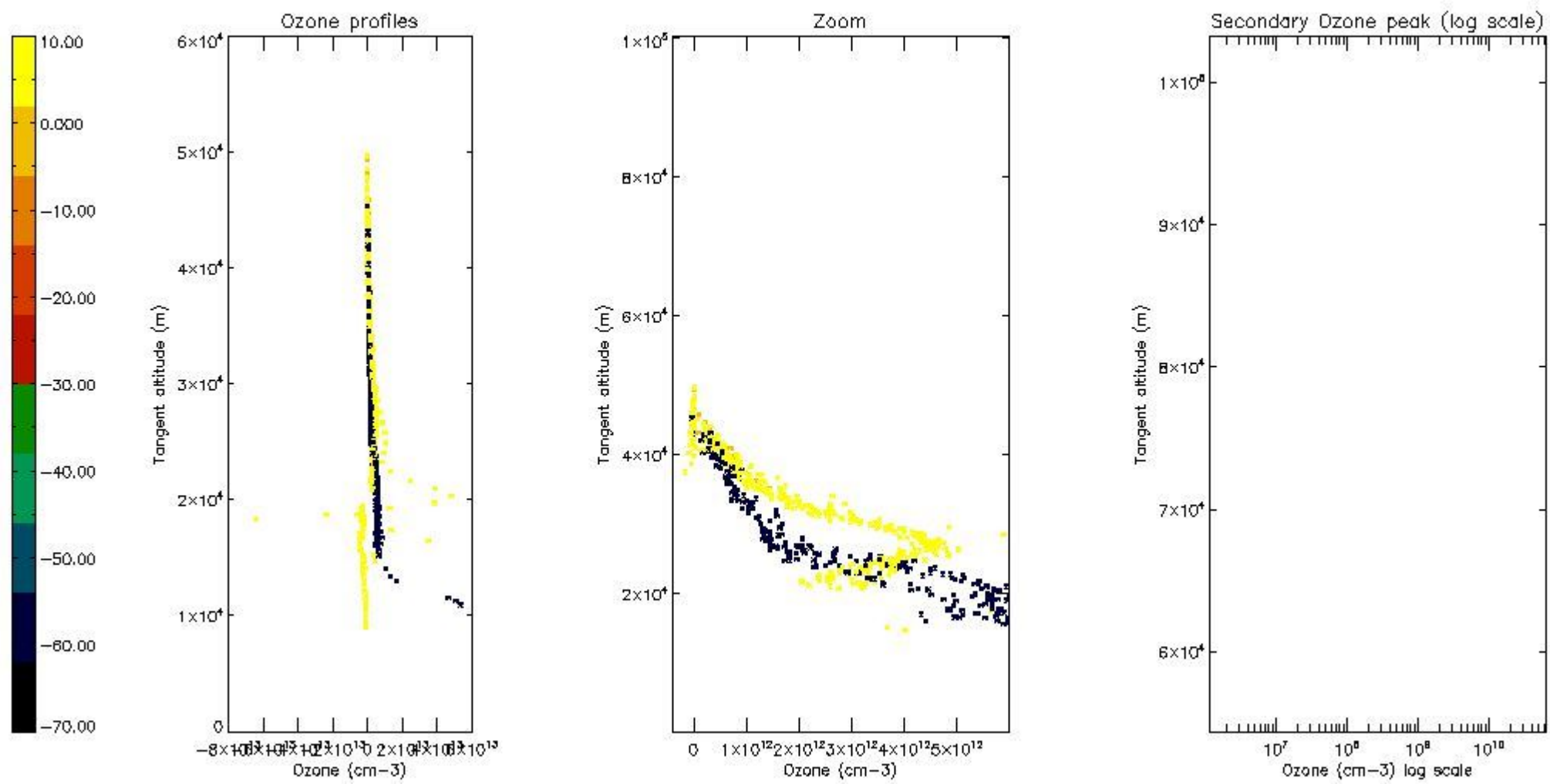
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



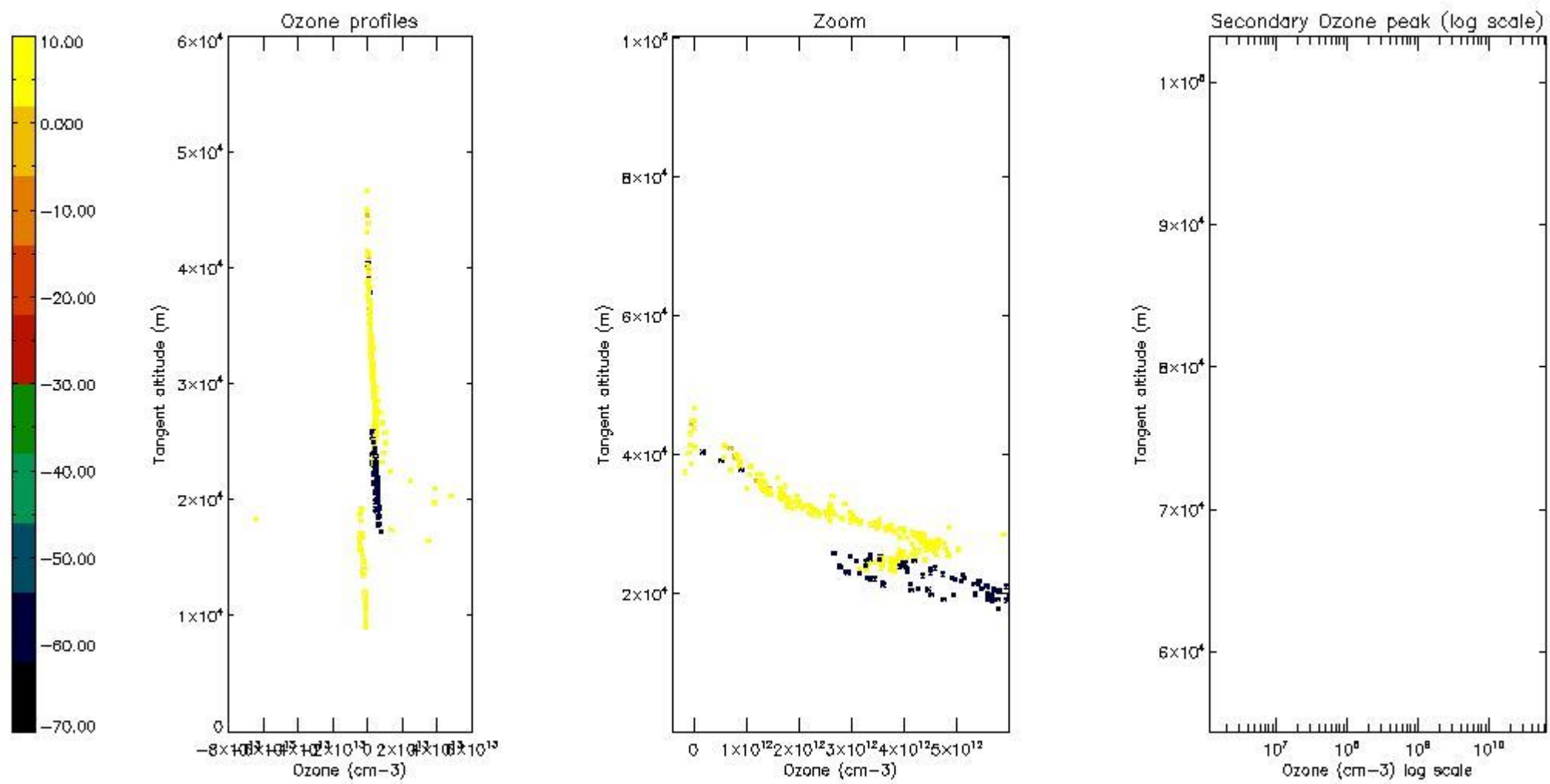
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



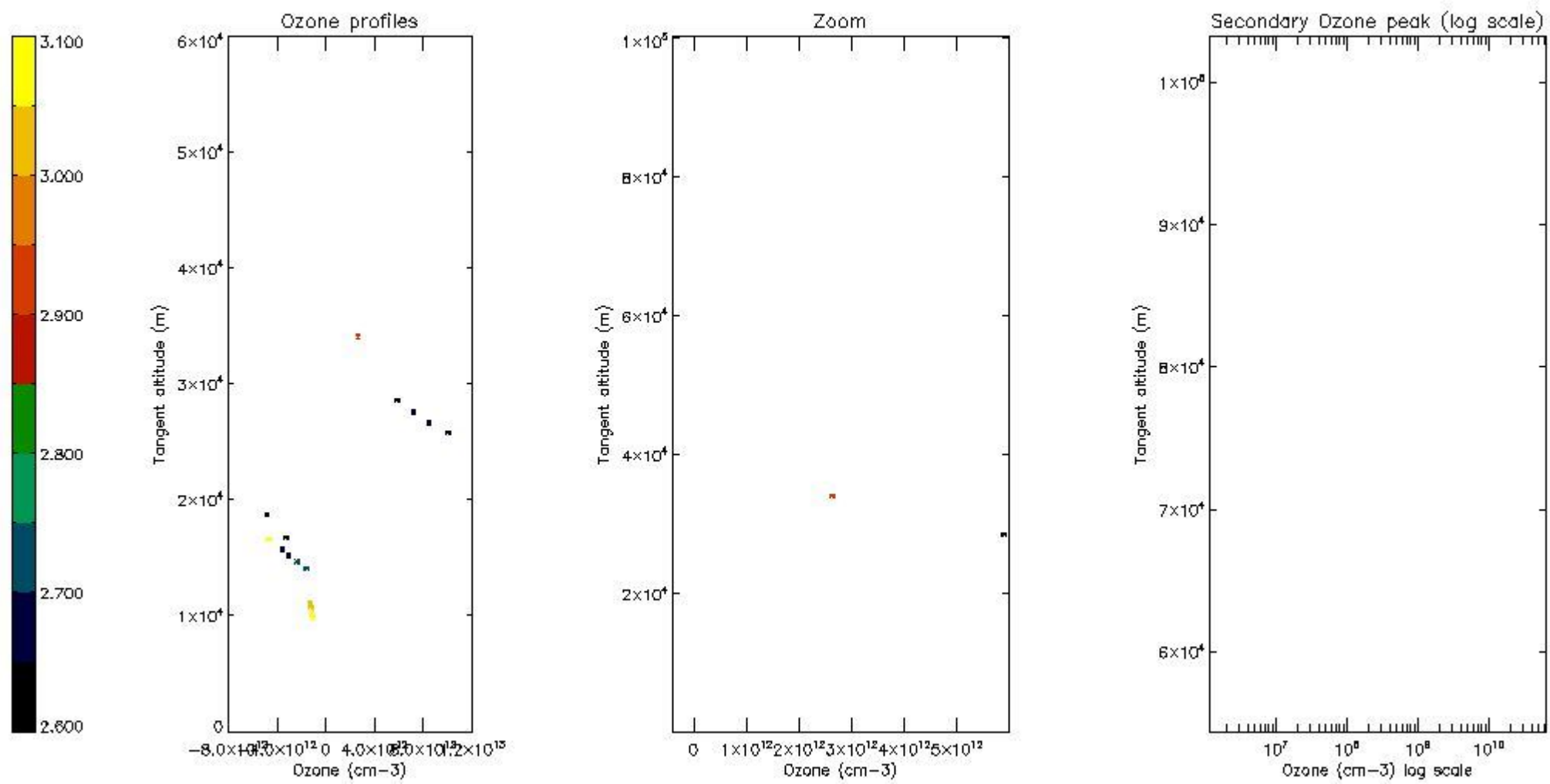
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



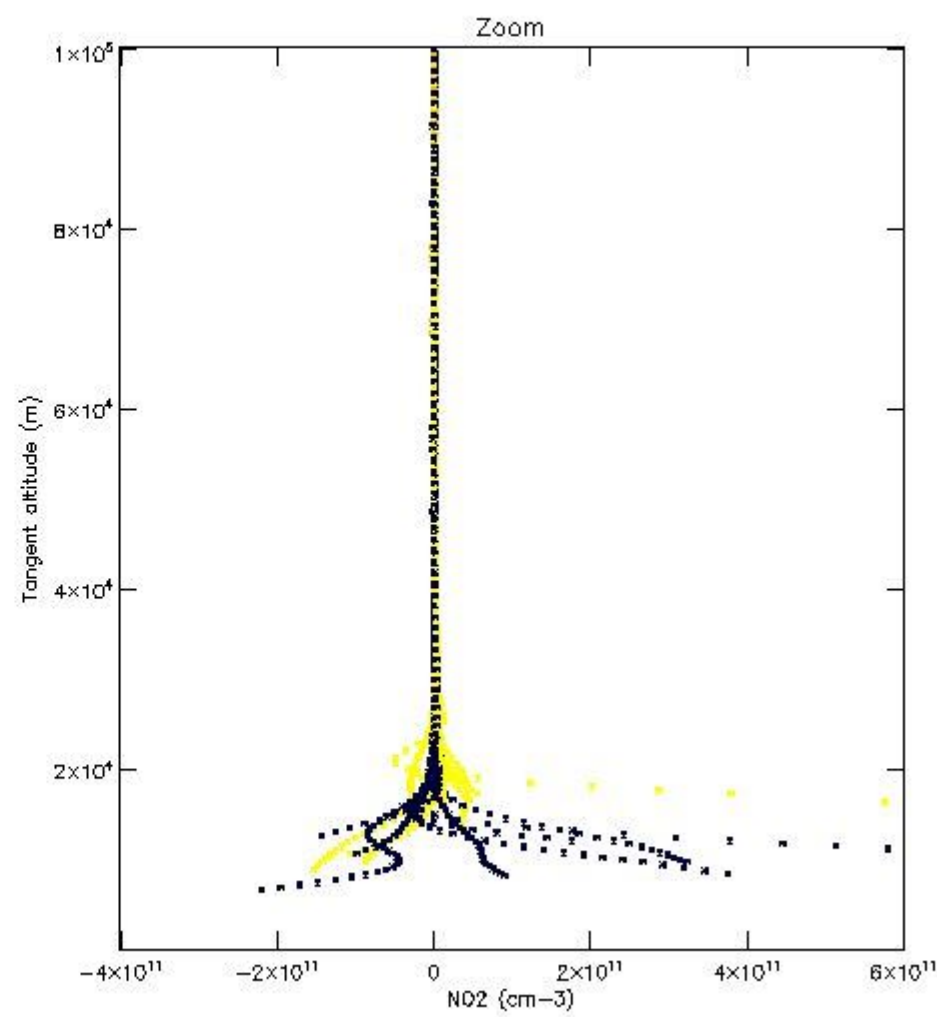
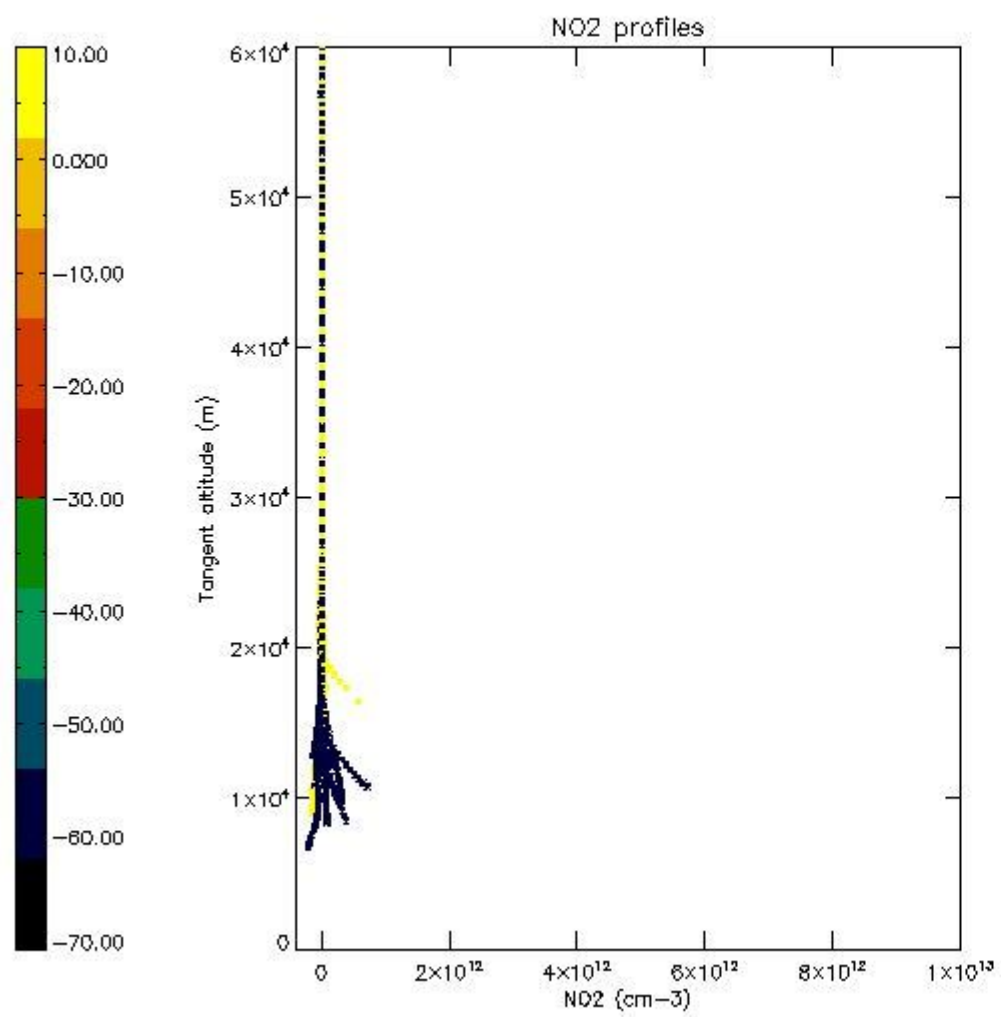
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



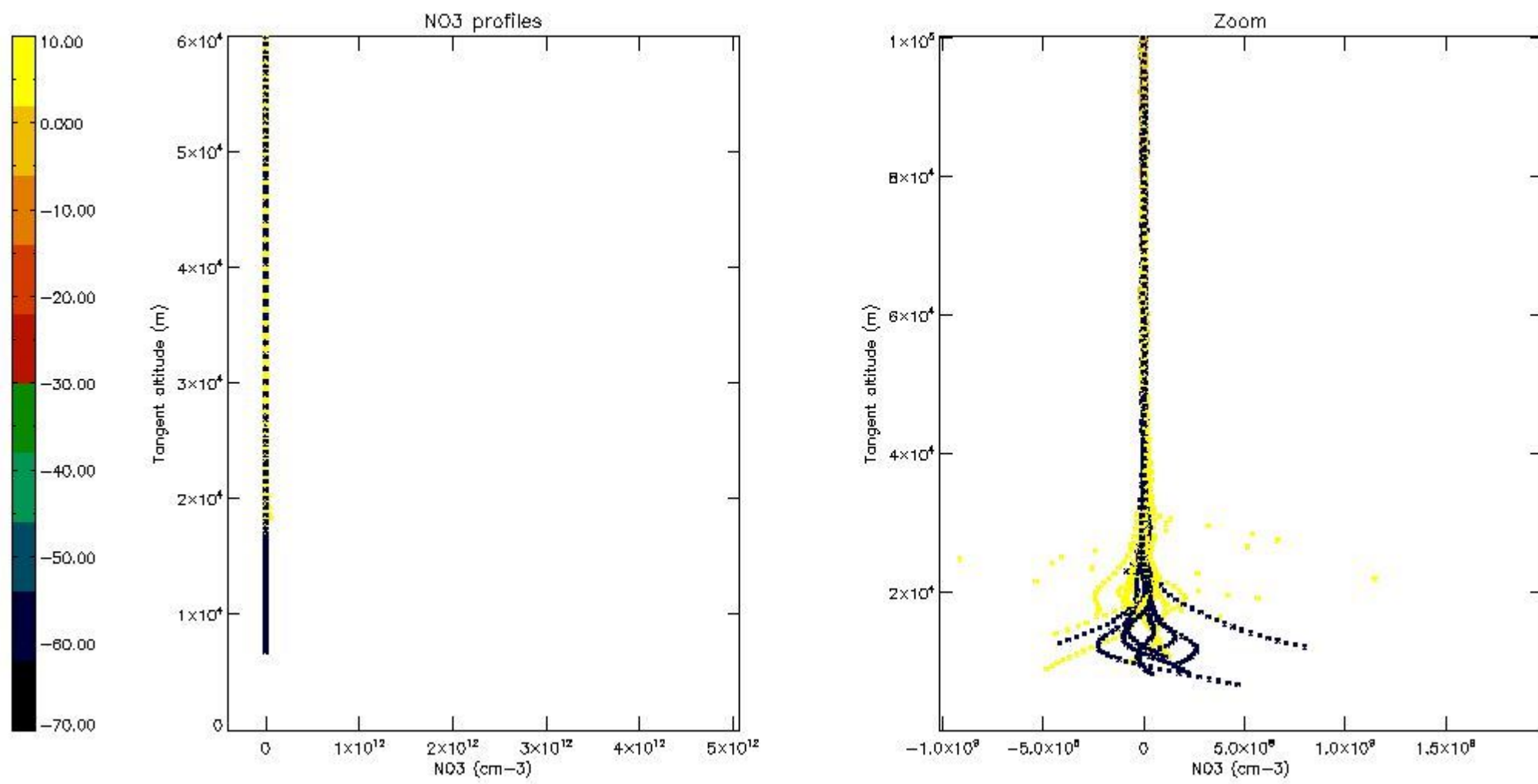
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



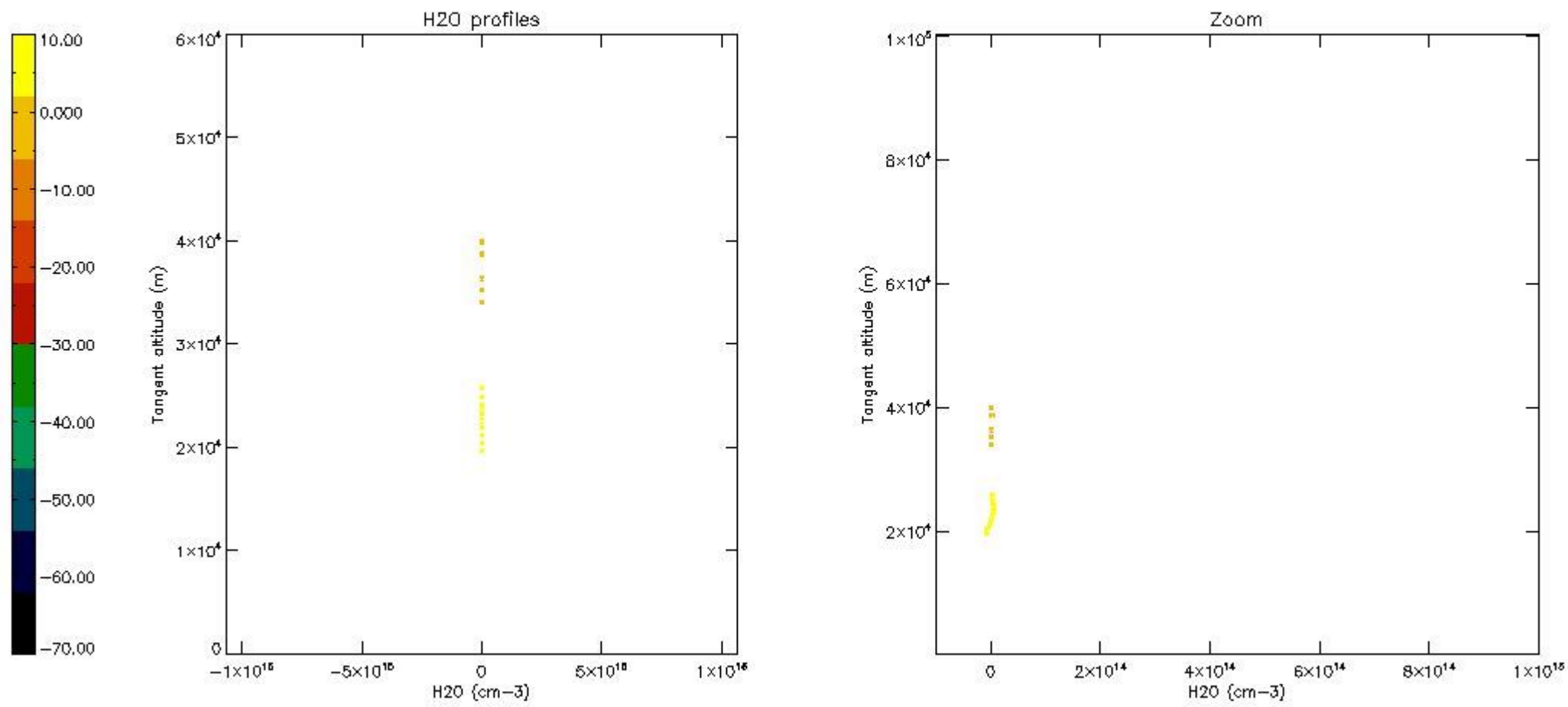
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

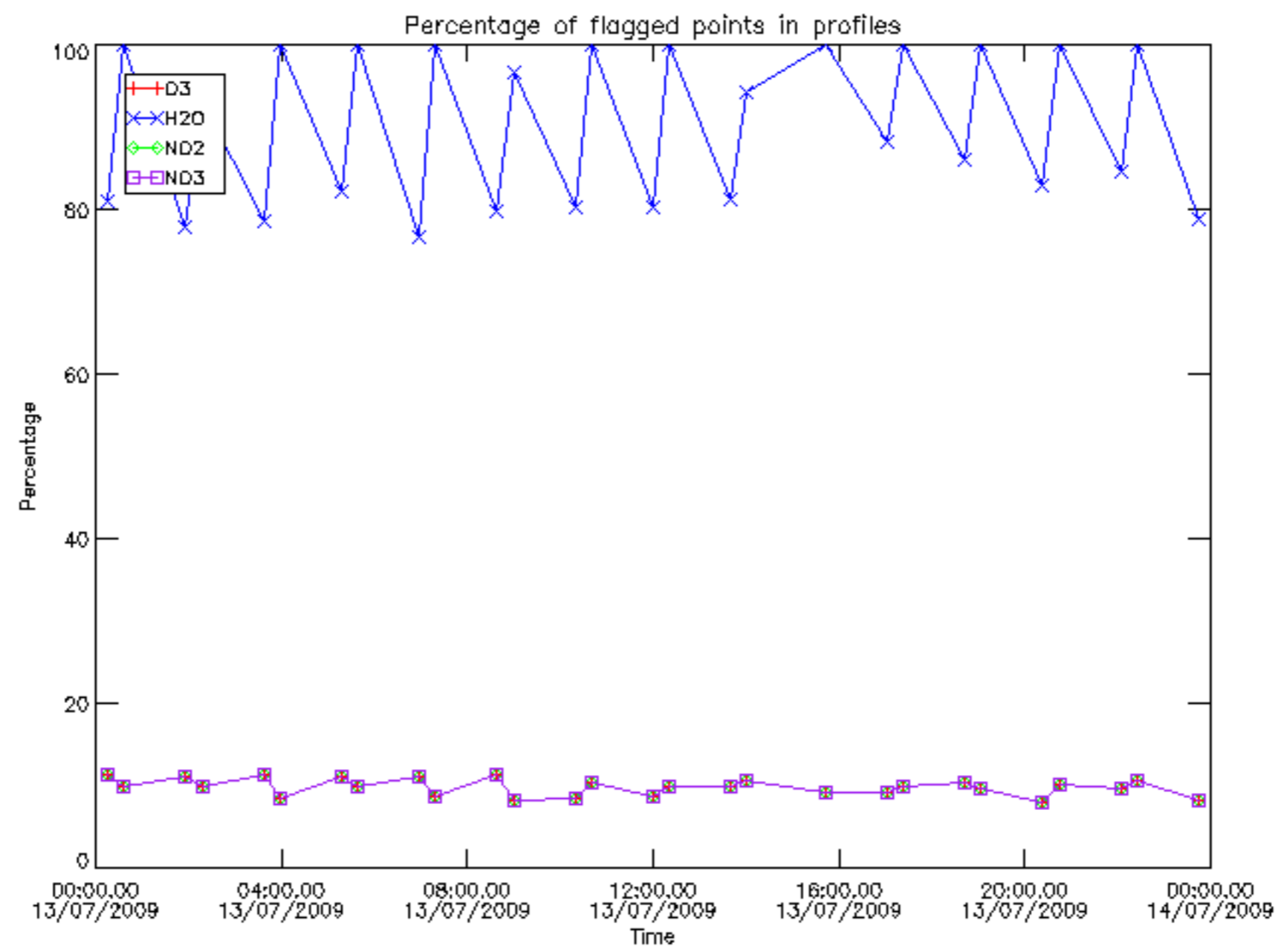
The colorbar represents the latitude.



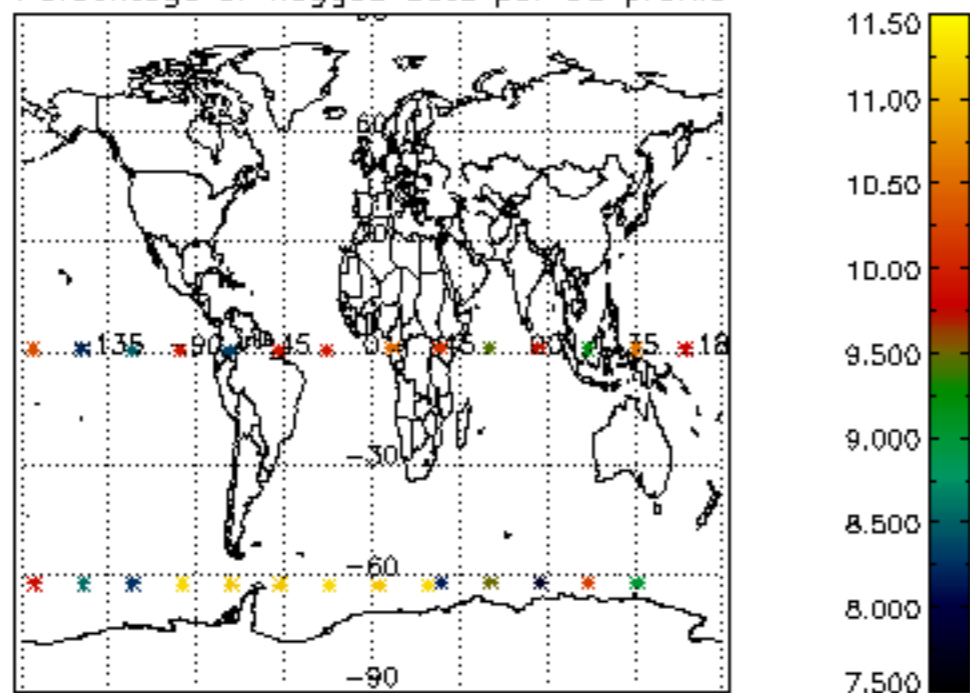
6. Auxiliary Data Files used for the production reported in section 2

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.

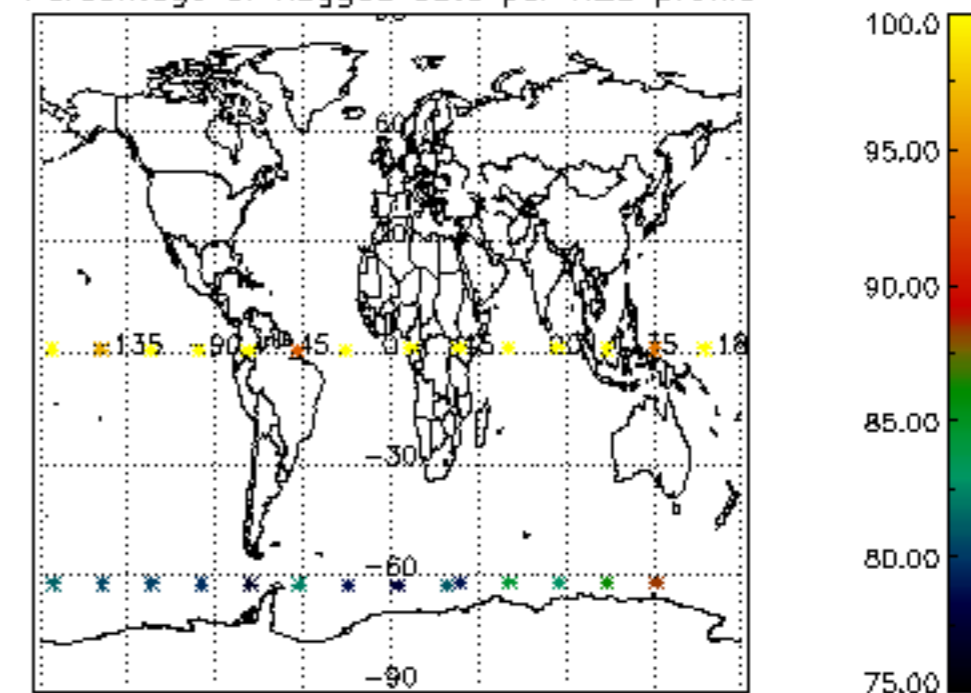
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	13-JUL-2009 00:02:00
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-JUL-2009 00:02:00
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-JUL-2009 00:02:00



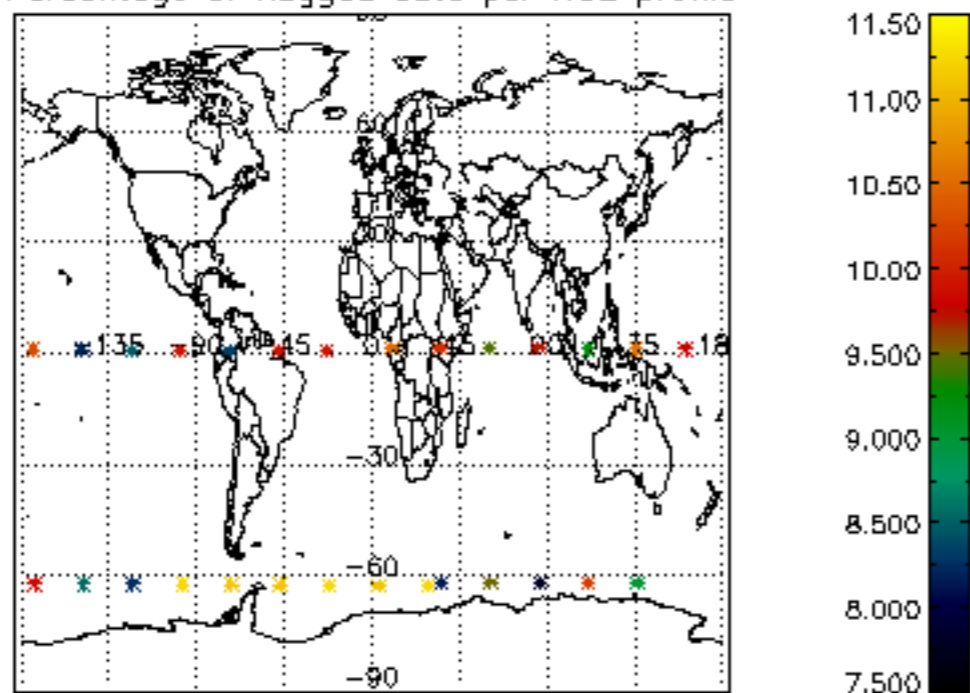
Percentage of flagged data per D3 profile



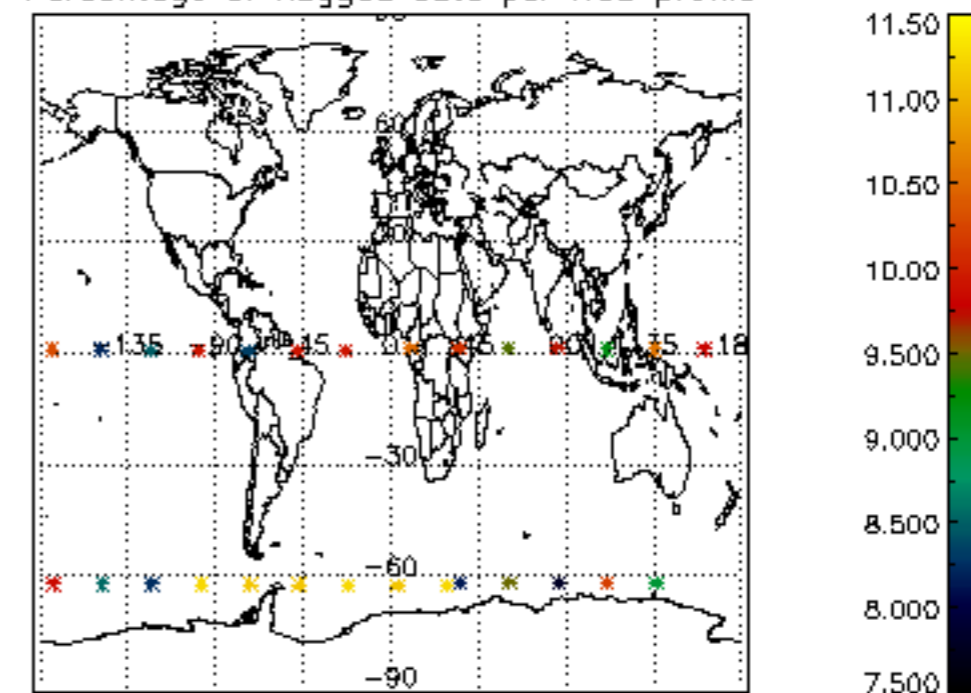
Percentage of flagged data per H2O profile

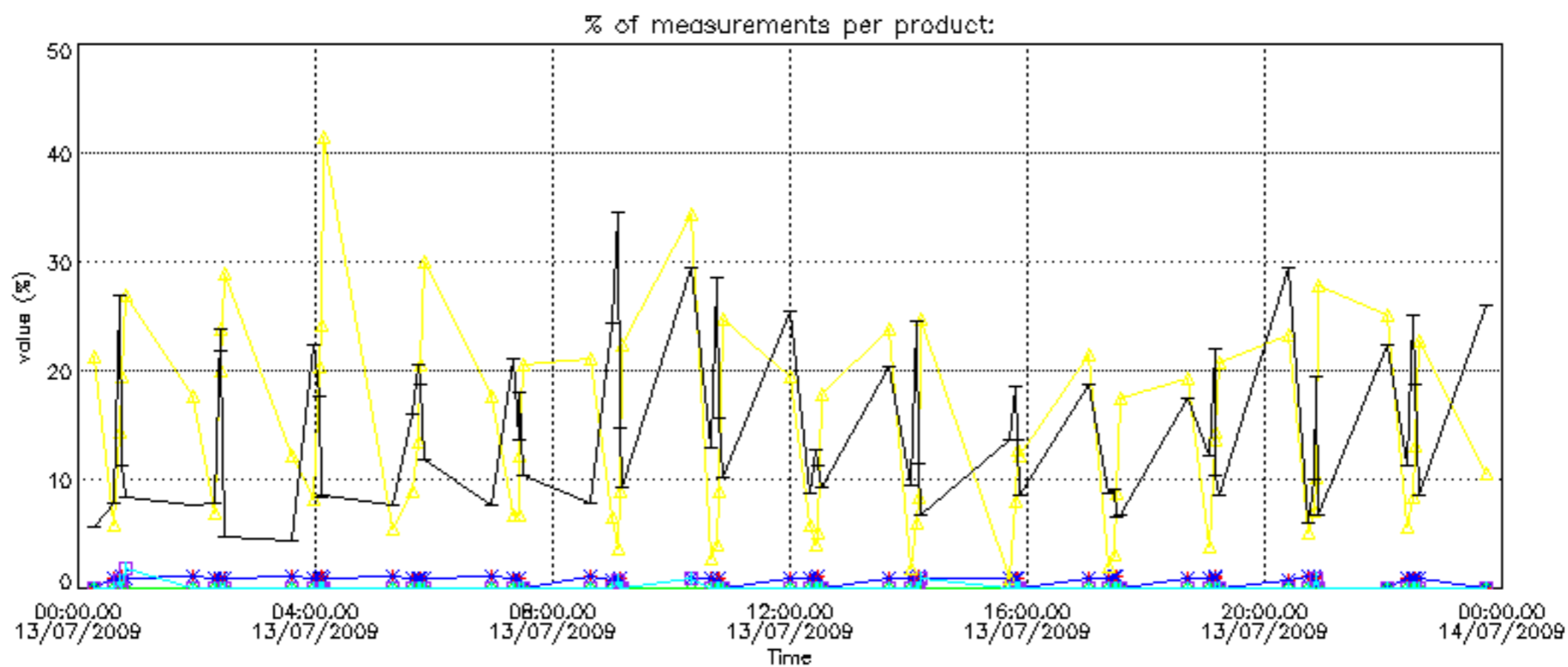


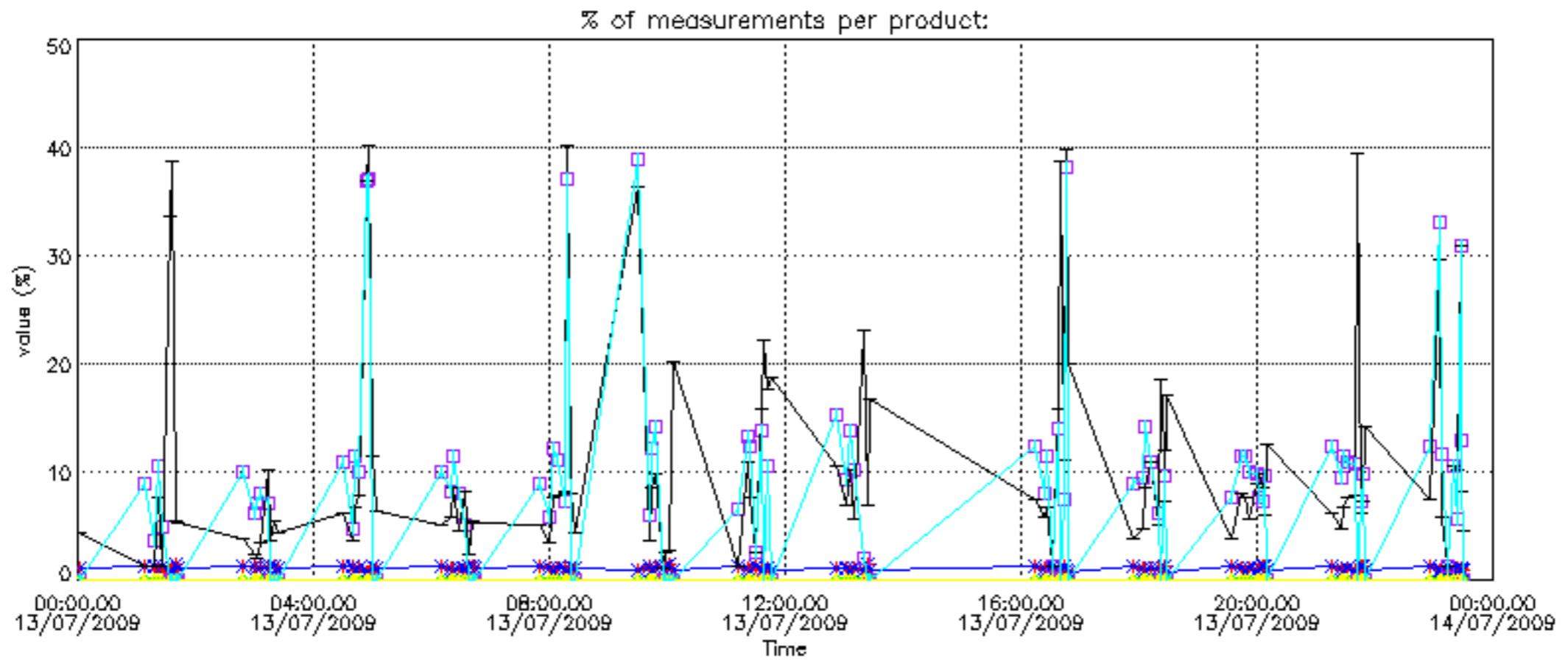
Percentage of flagged data per NO2 profile



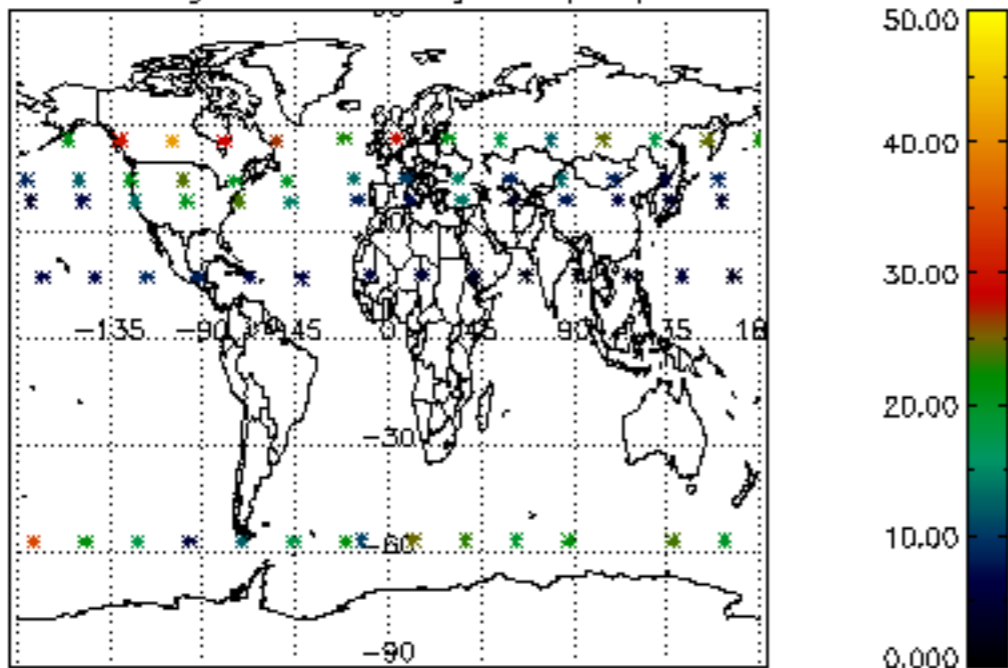
Percentage of flagged data per NO3 profile



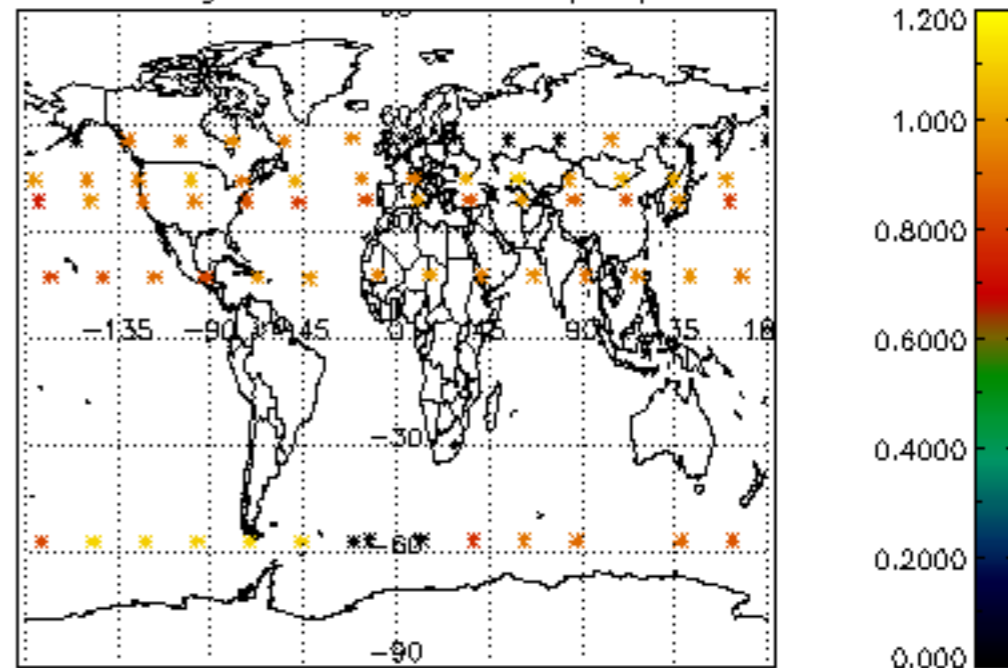




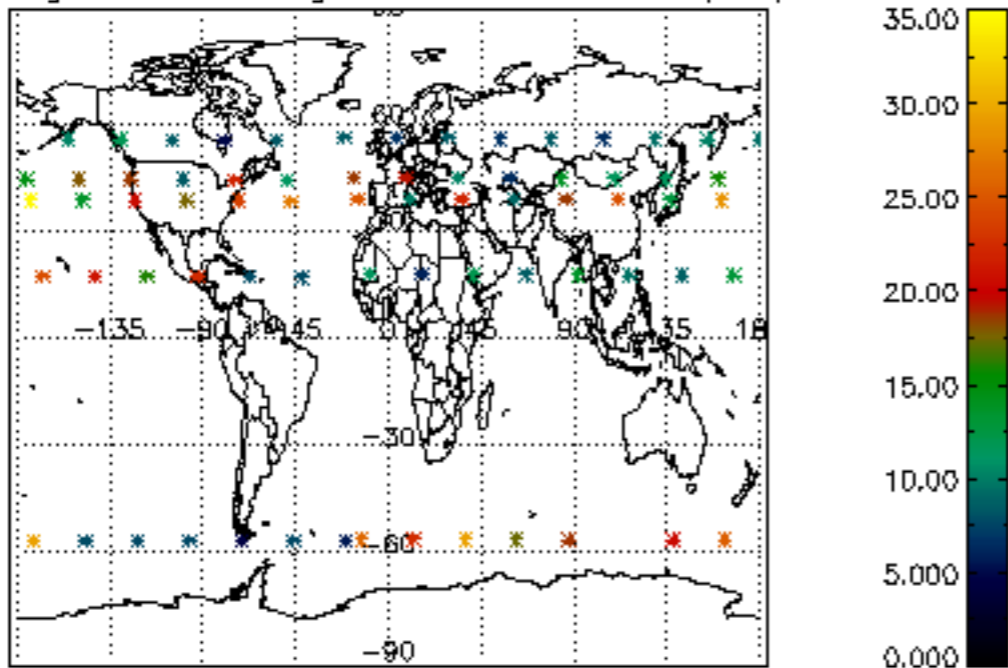
Percentage of cosmic ray hits per profile



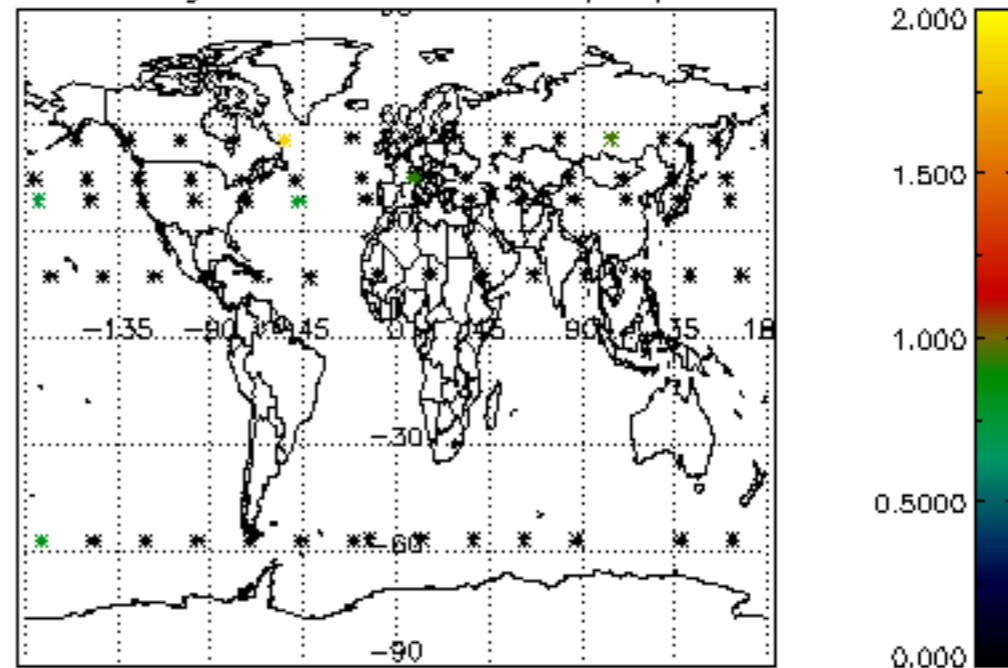
Percentage of datation errors per profile



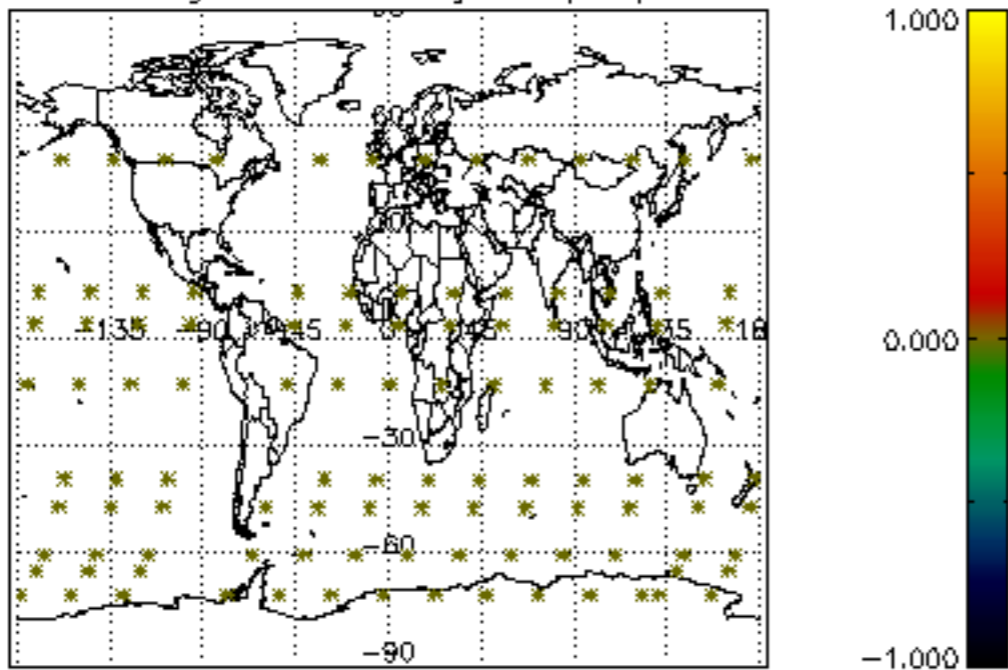
Percentage of star falling outside central band per profile



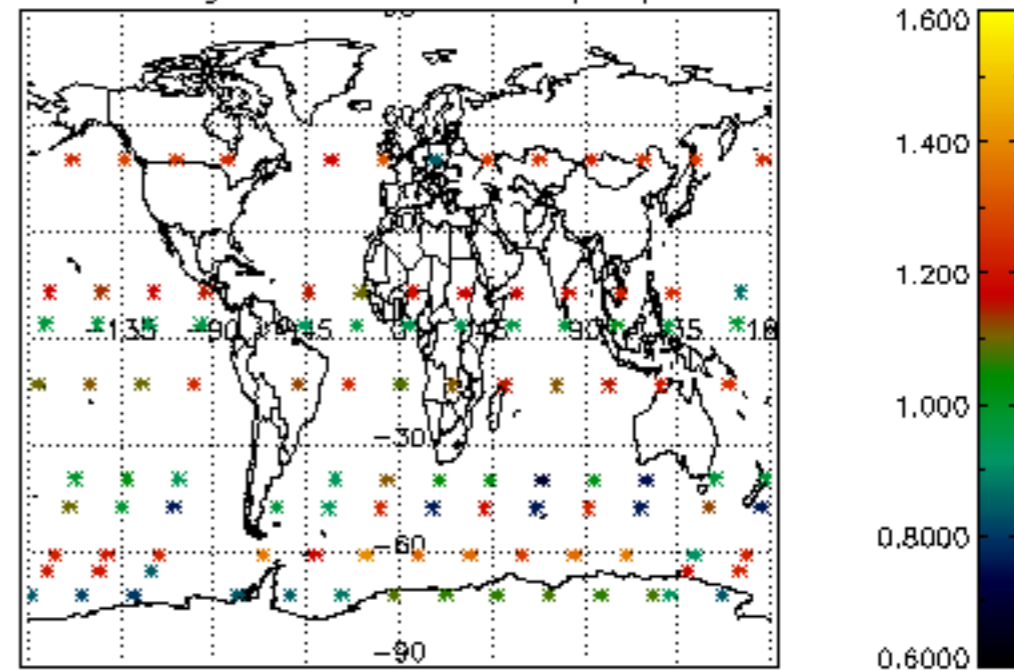
Percentage of saturation errors per profile



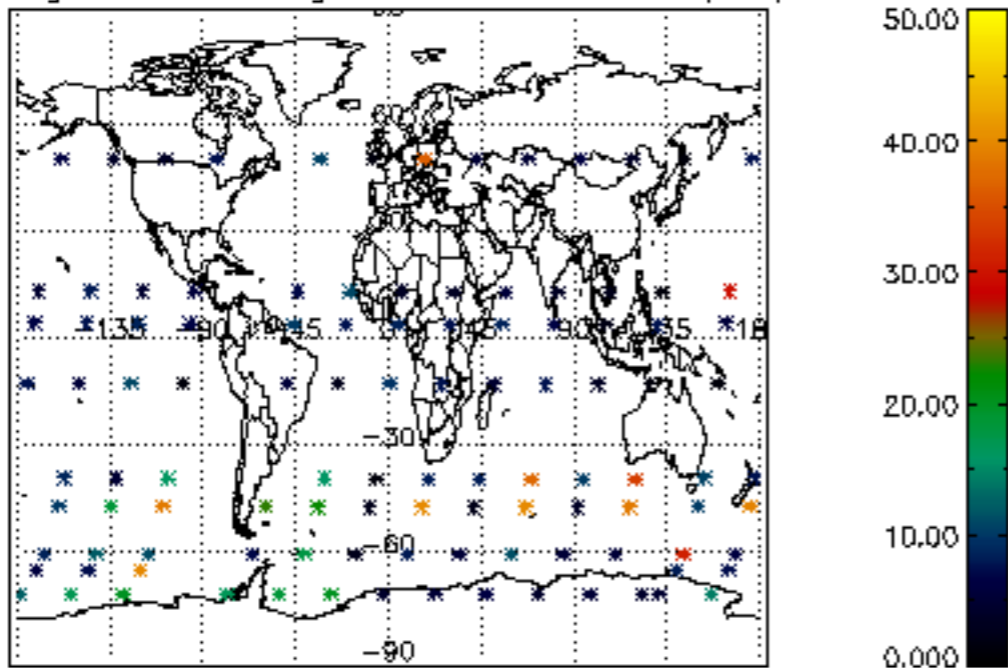
Percentage of cosmic ray hits per profile



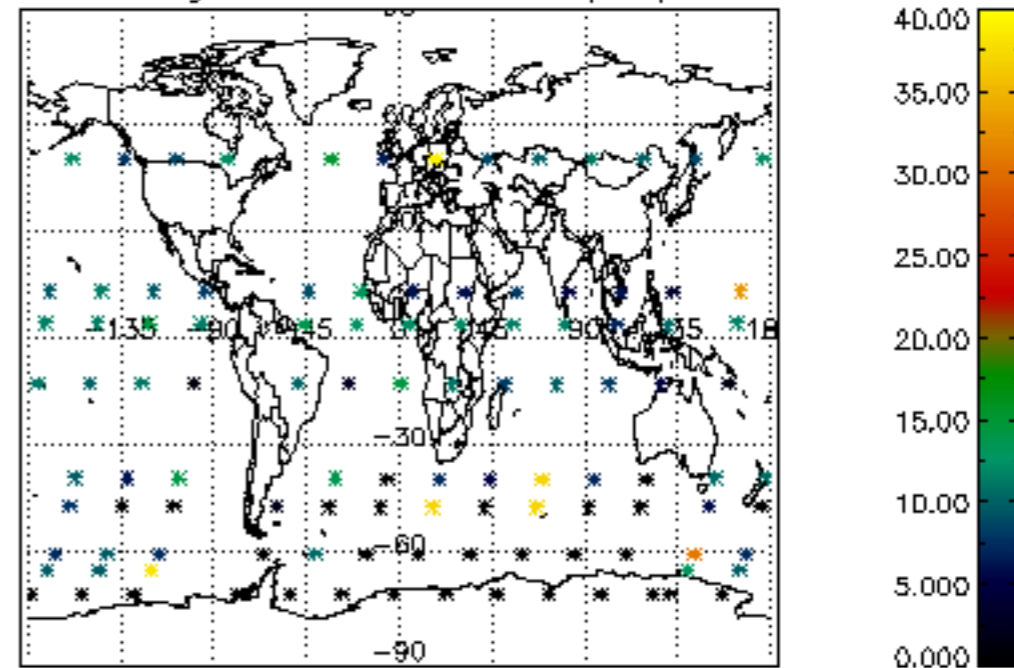
Percentage of datation errors per profile

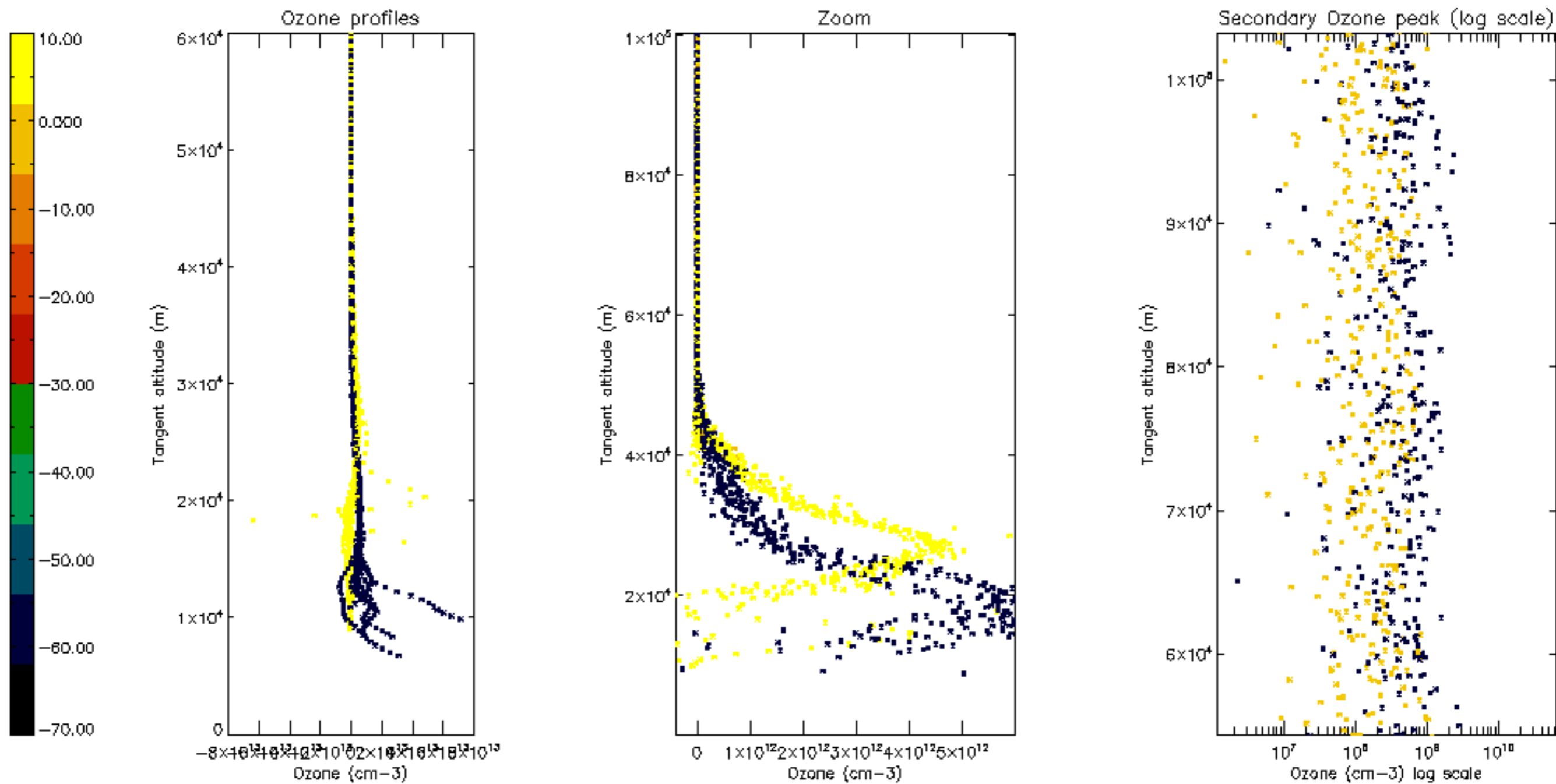


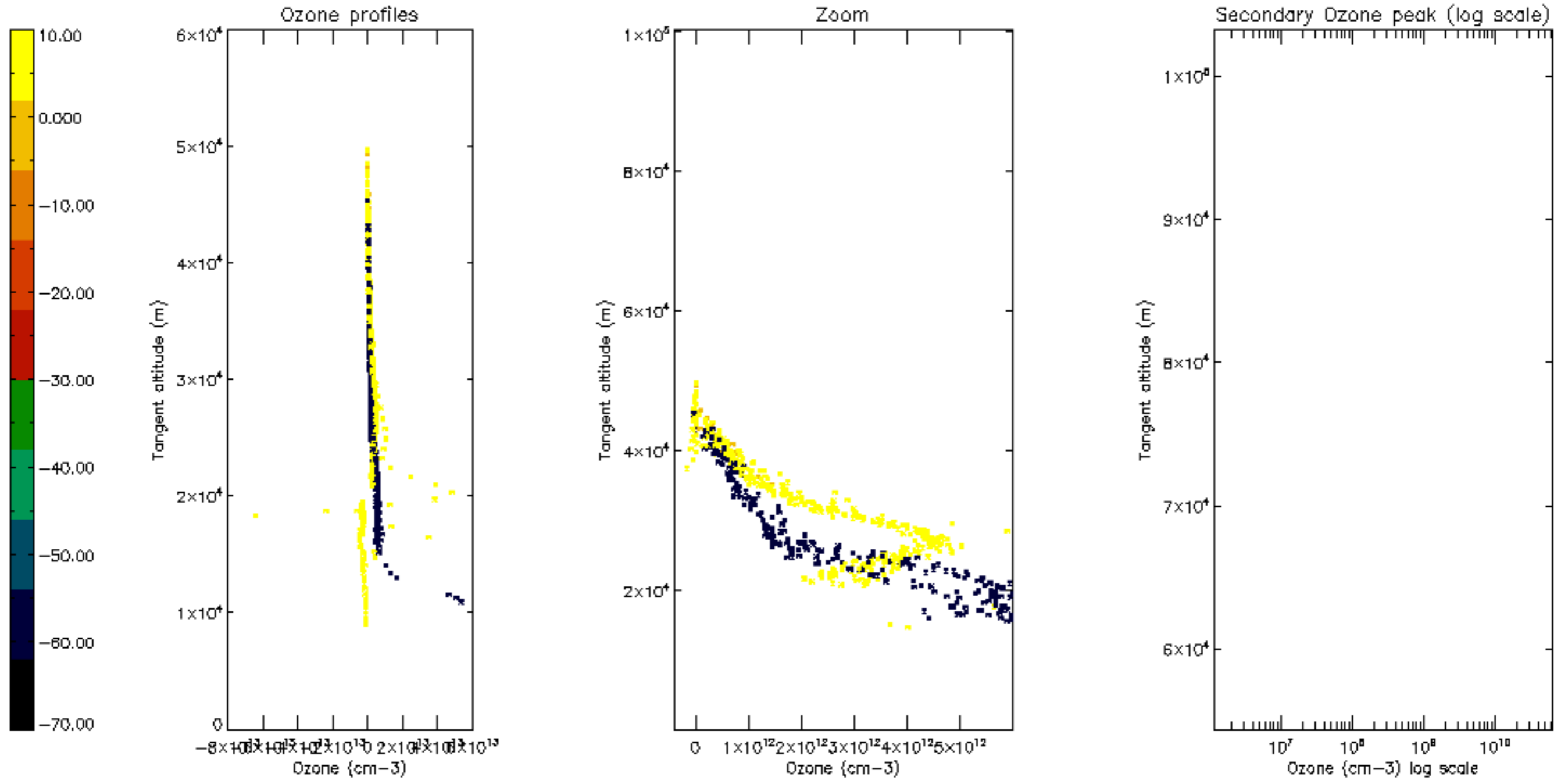
Percentage of star falling outside central band per profile

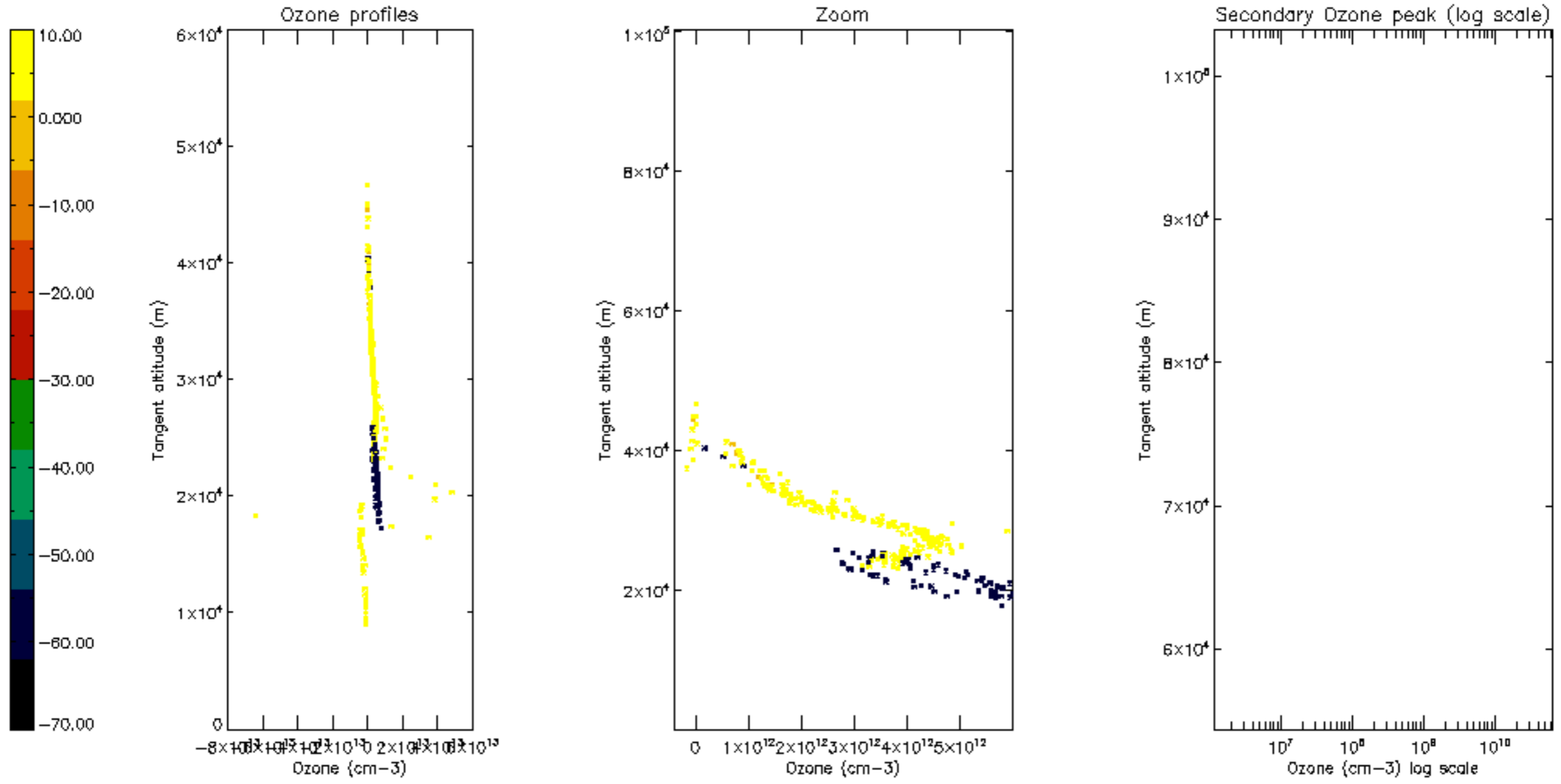


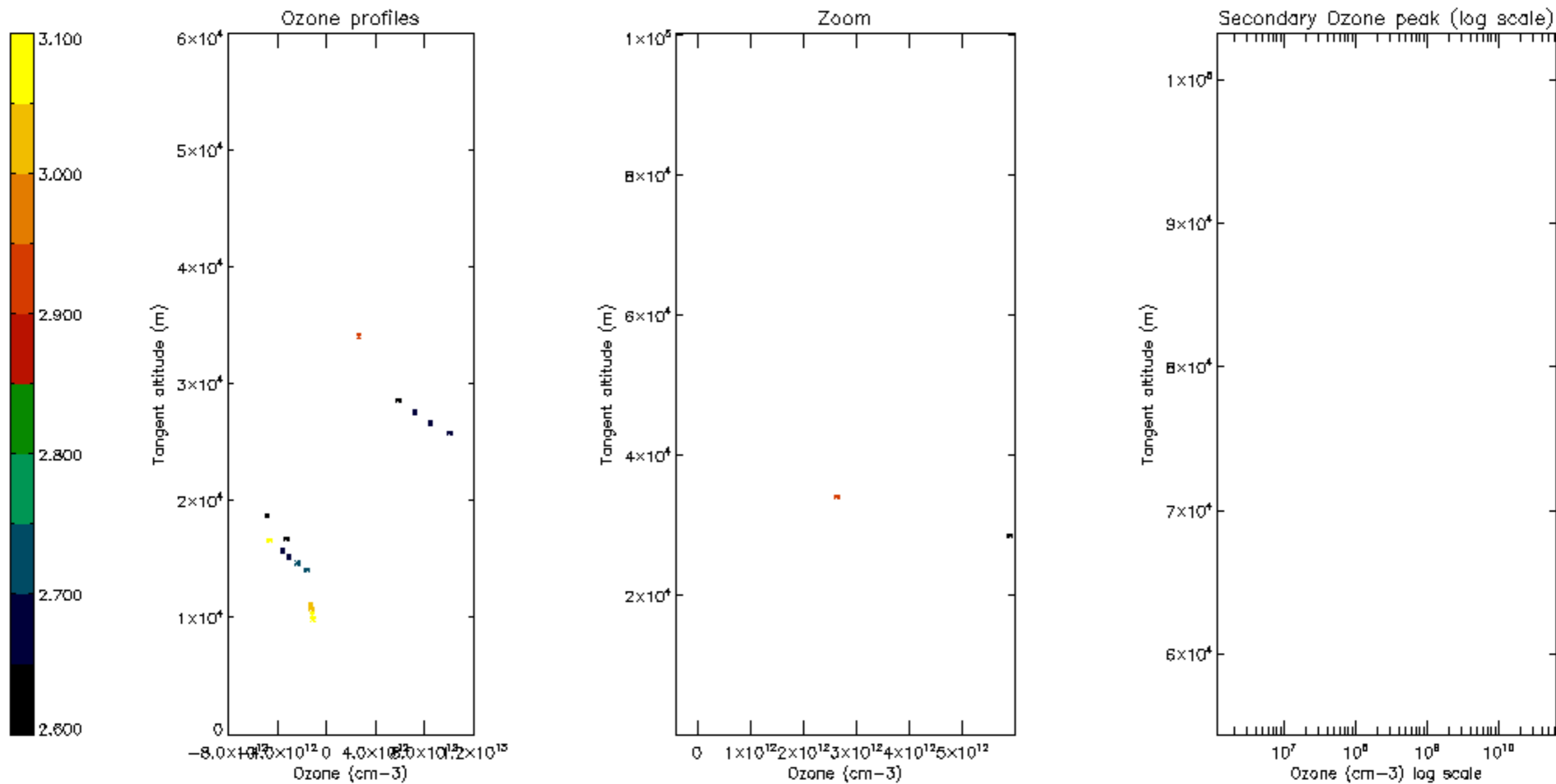
Percentage of saturation errors per profile

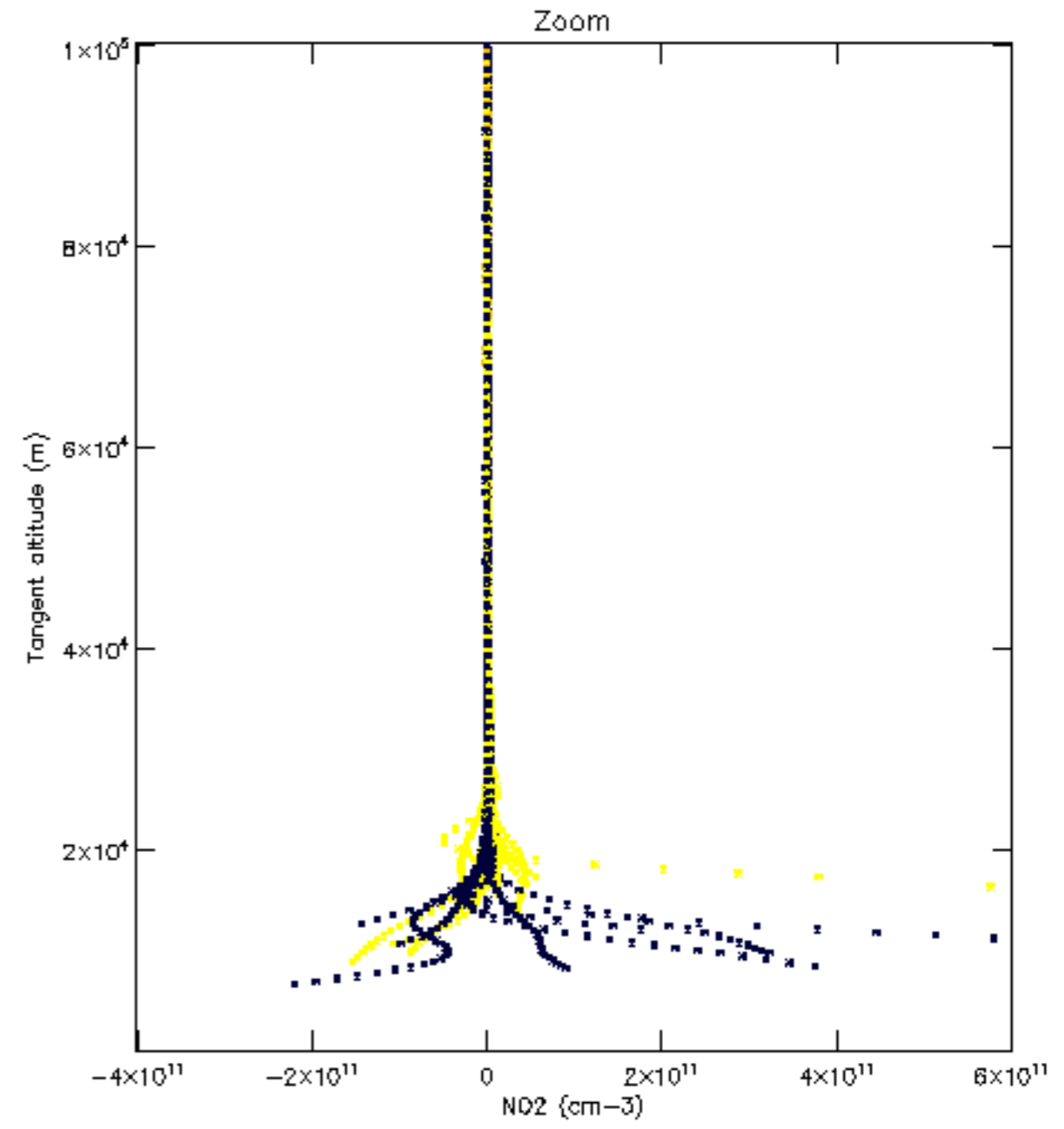
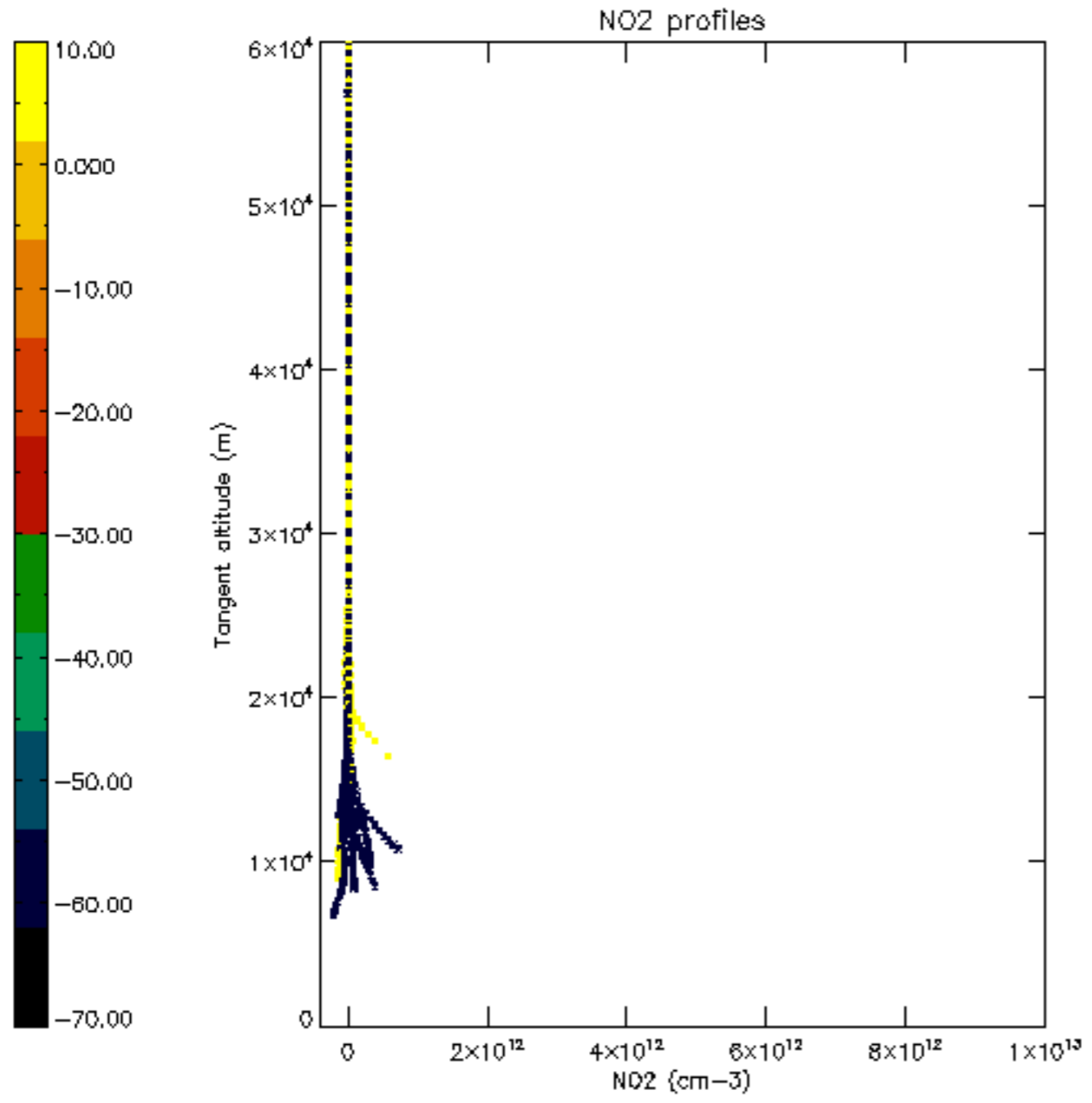


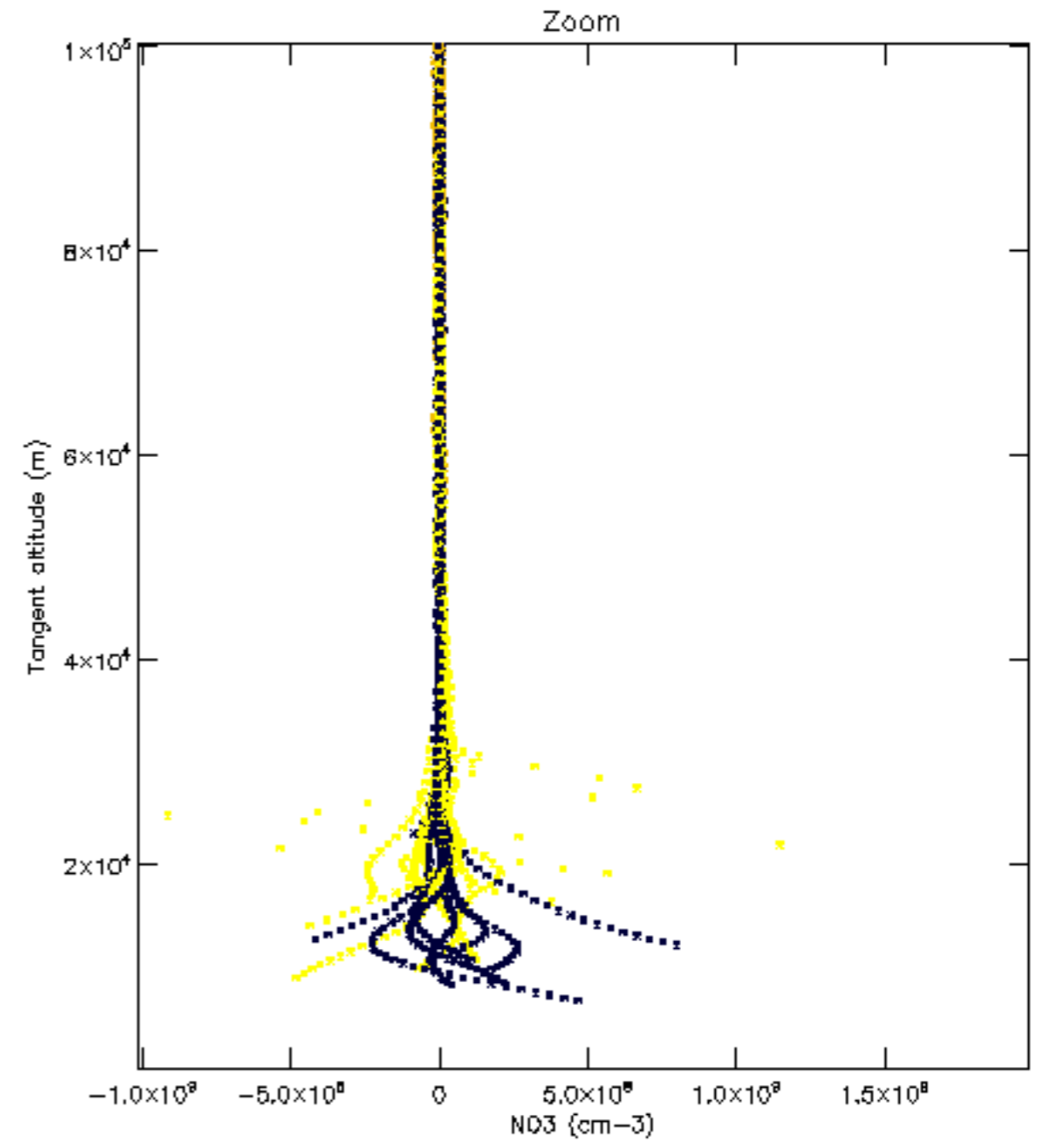
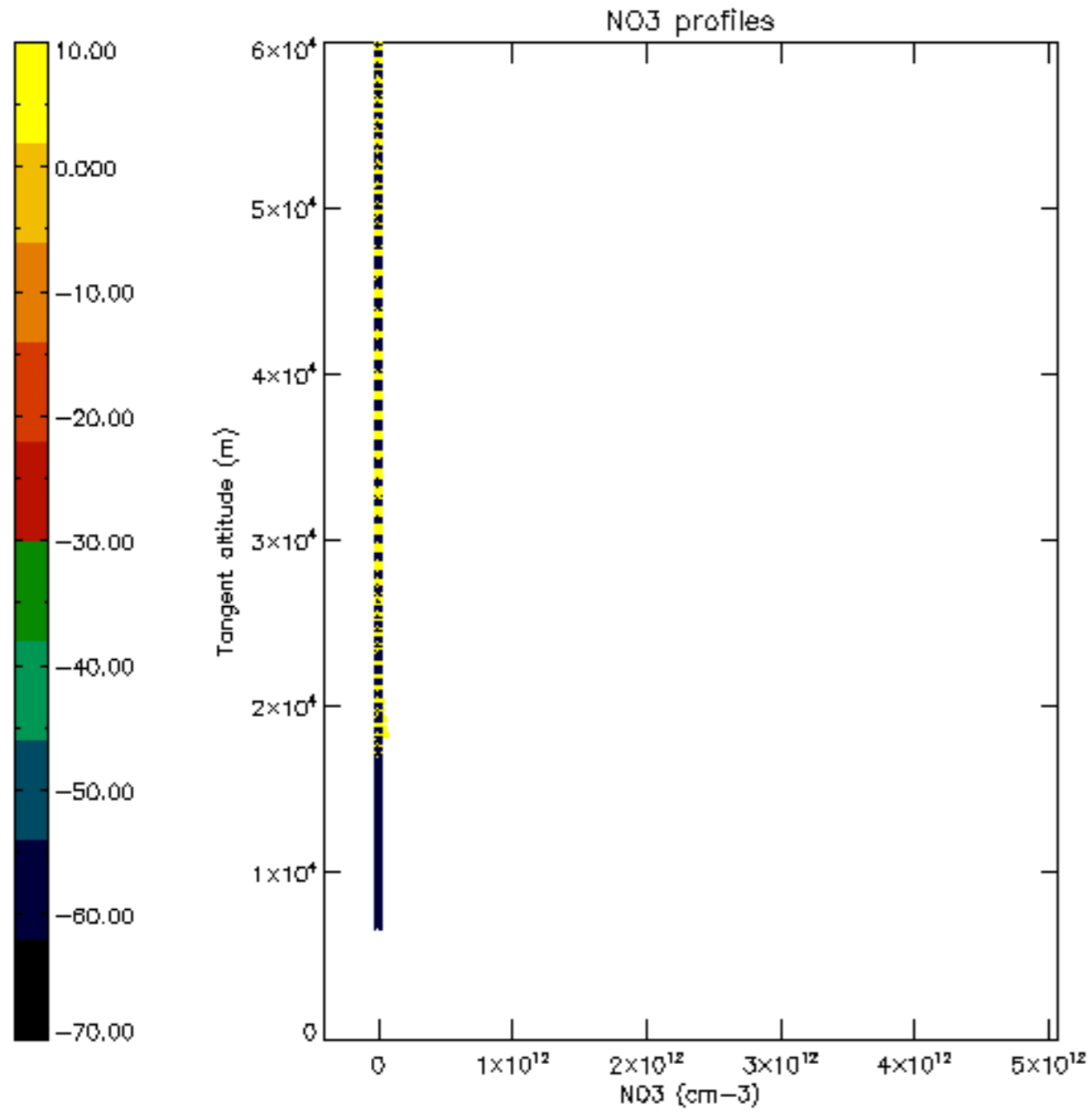


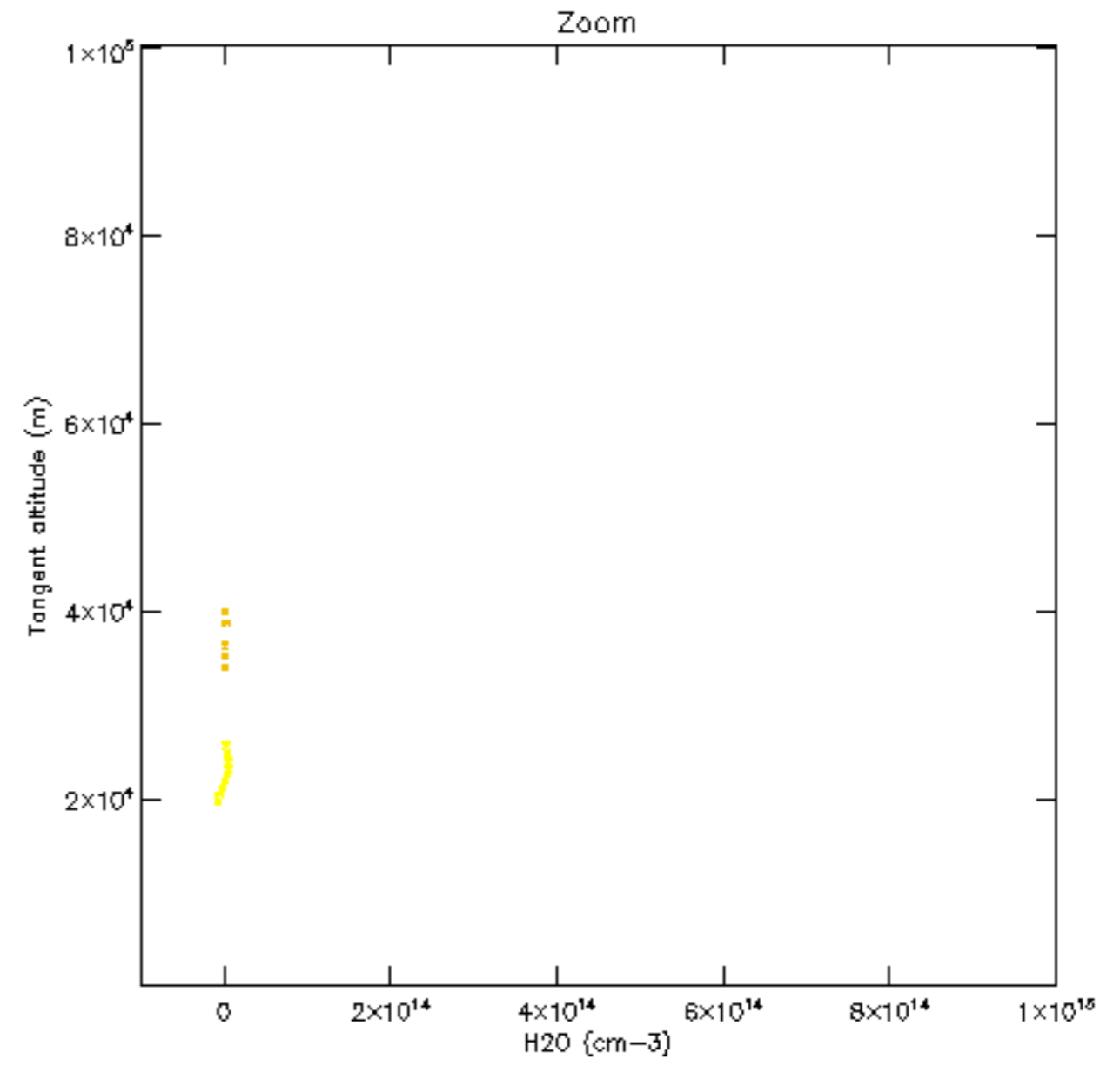
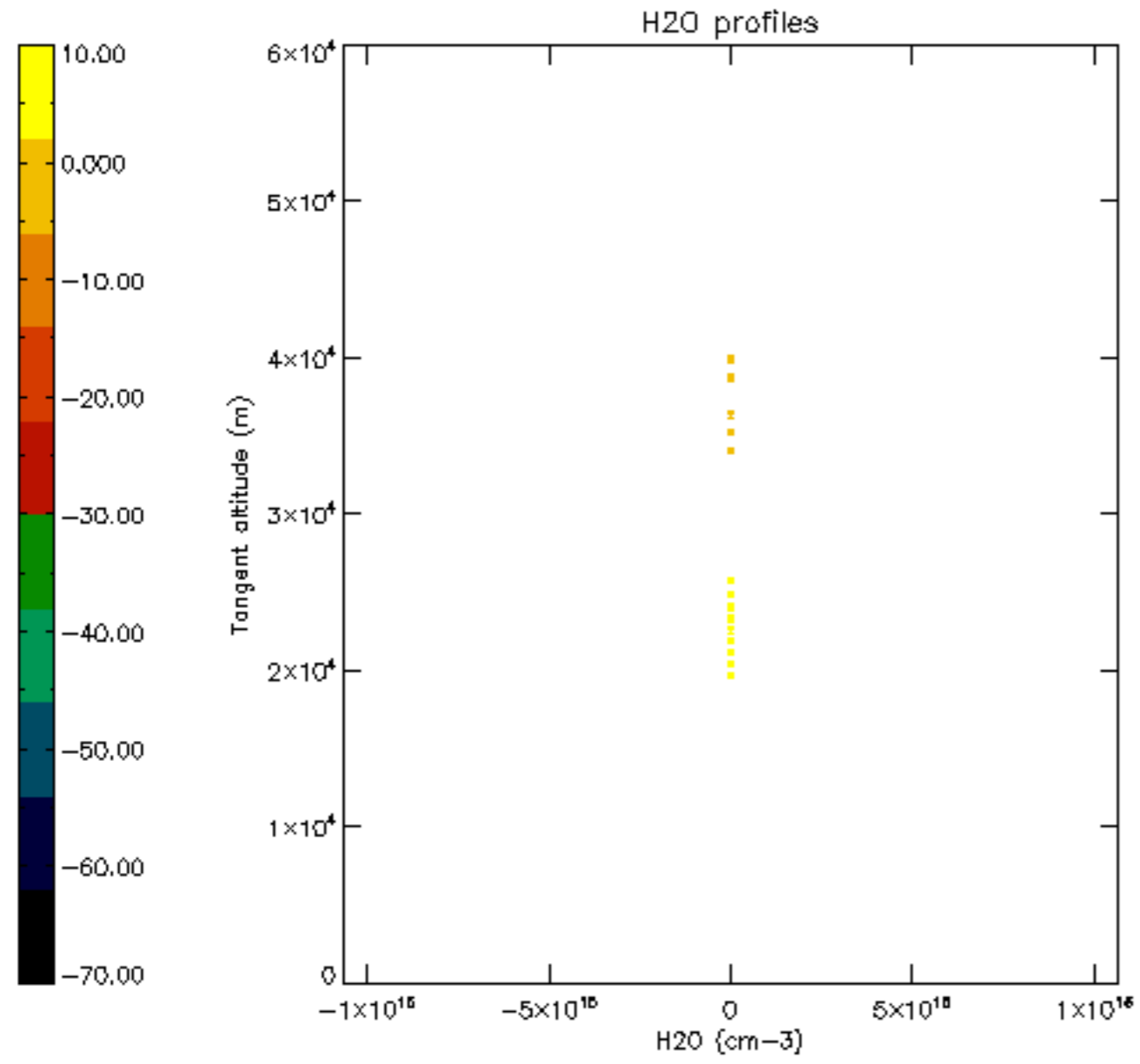


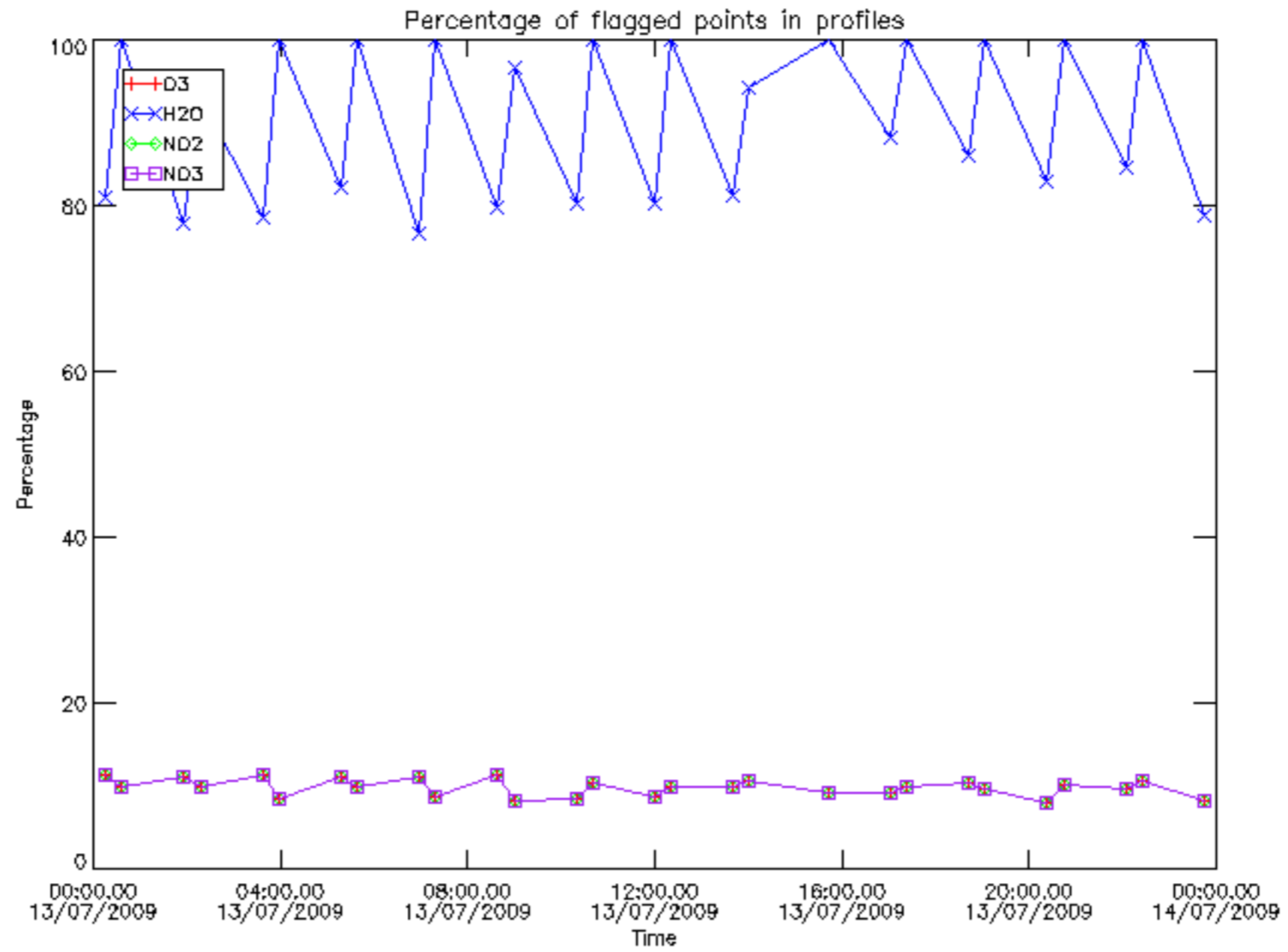




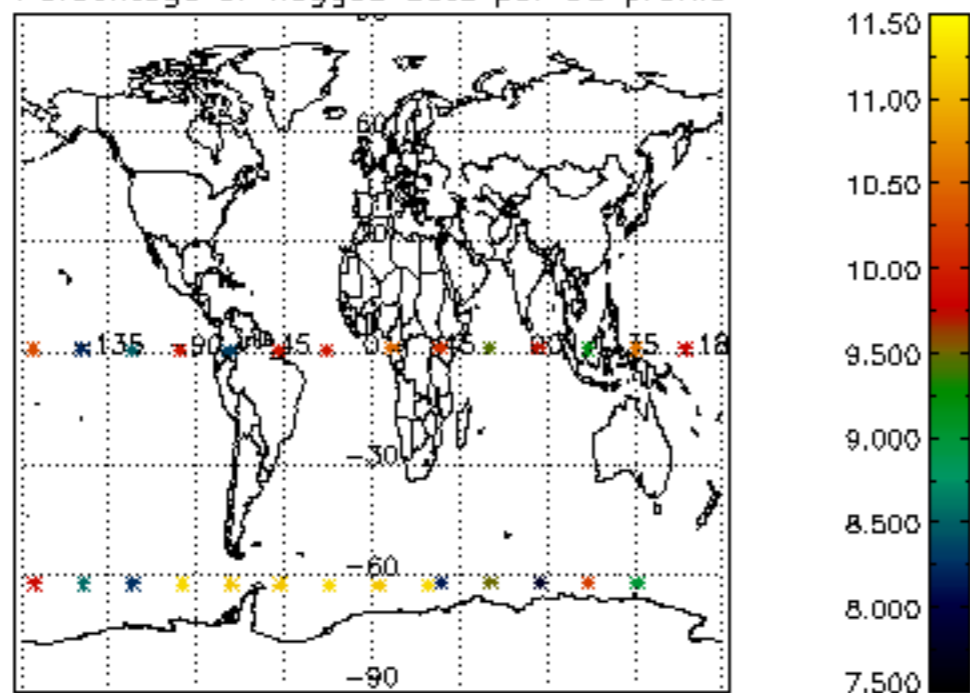




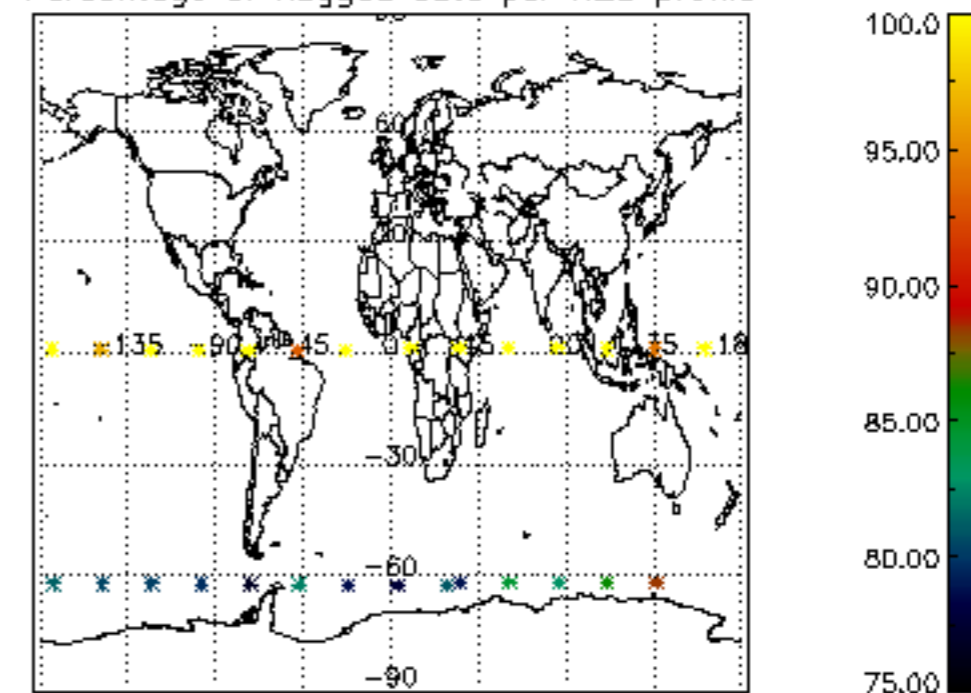




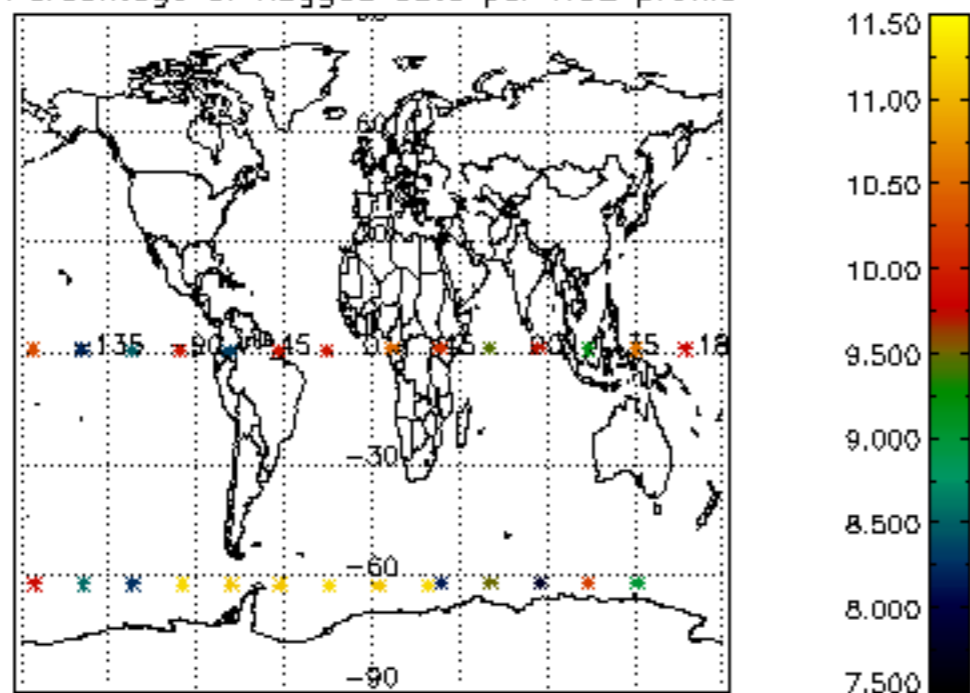
Percentage of flagged data per D3 profile



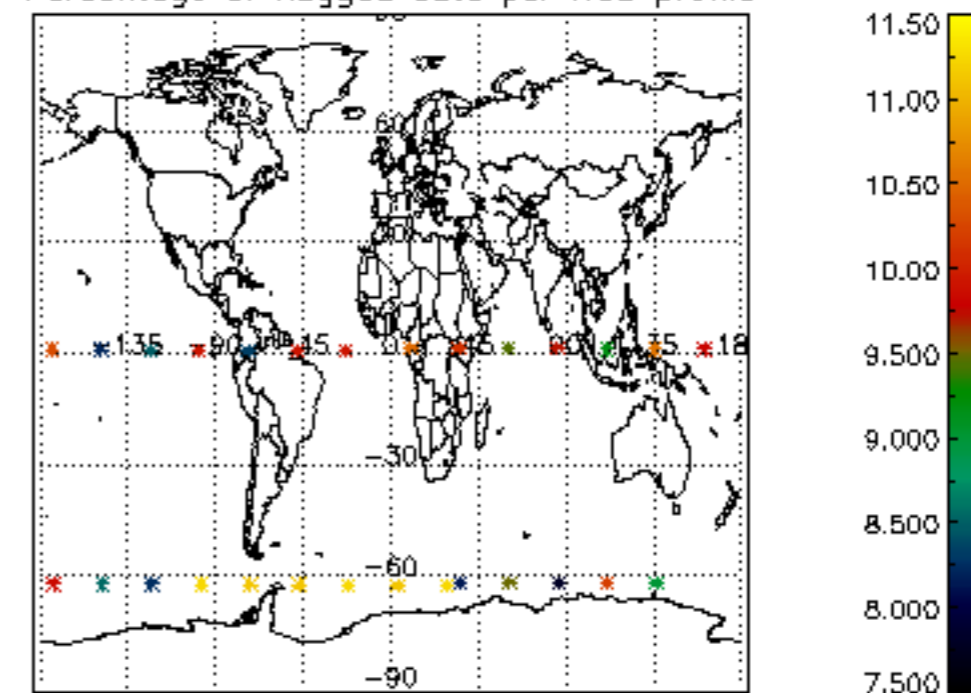
Percentage of flagged data per H2O profile

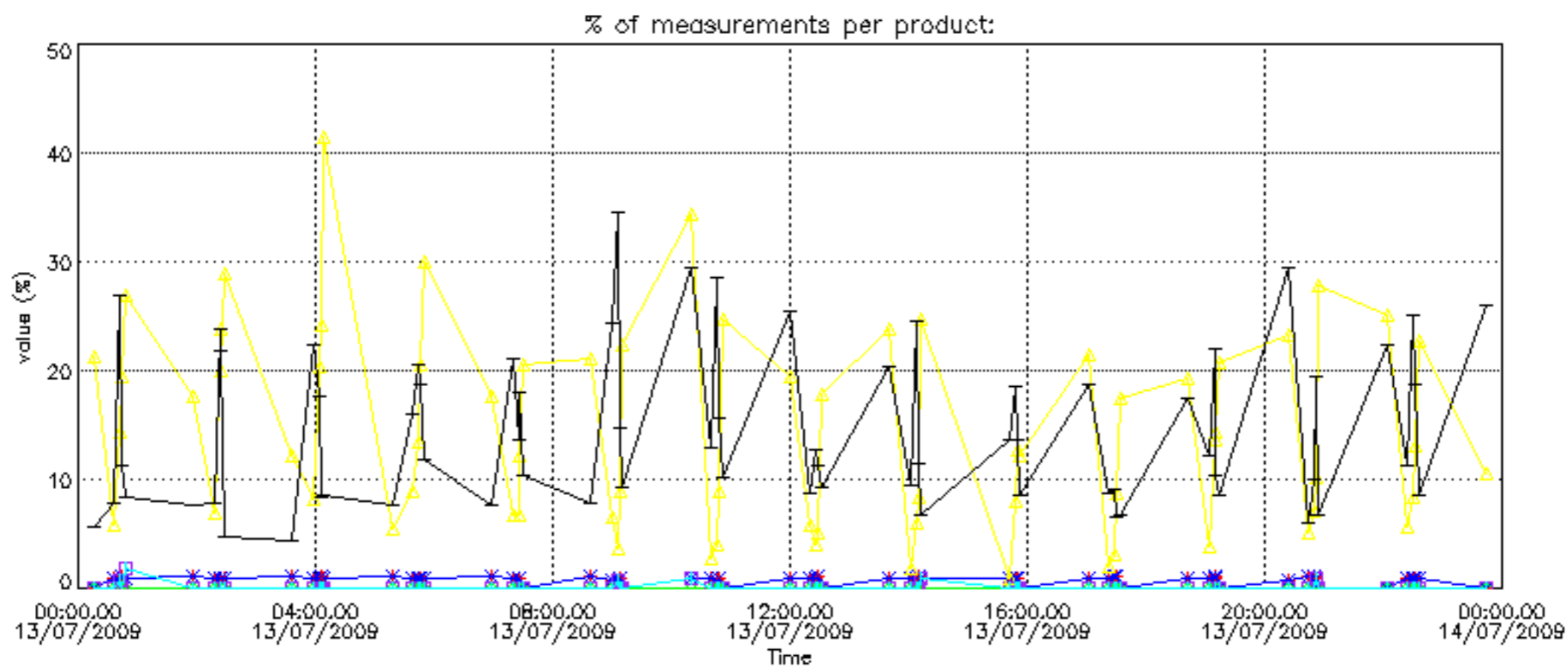


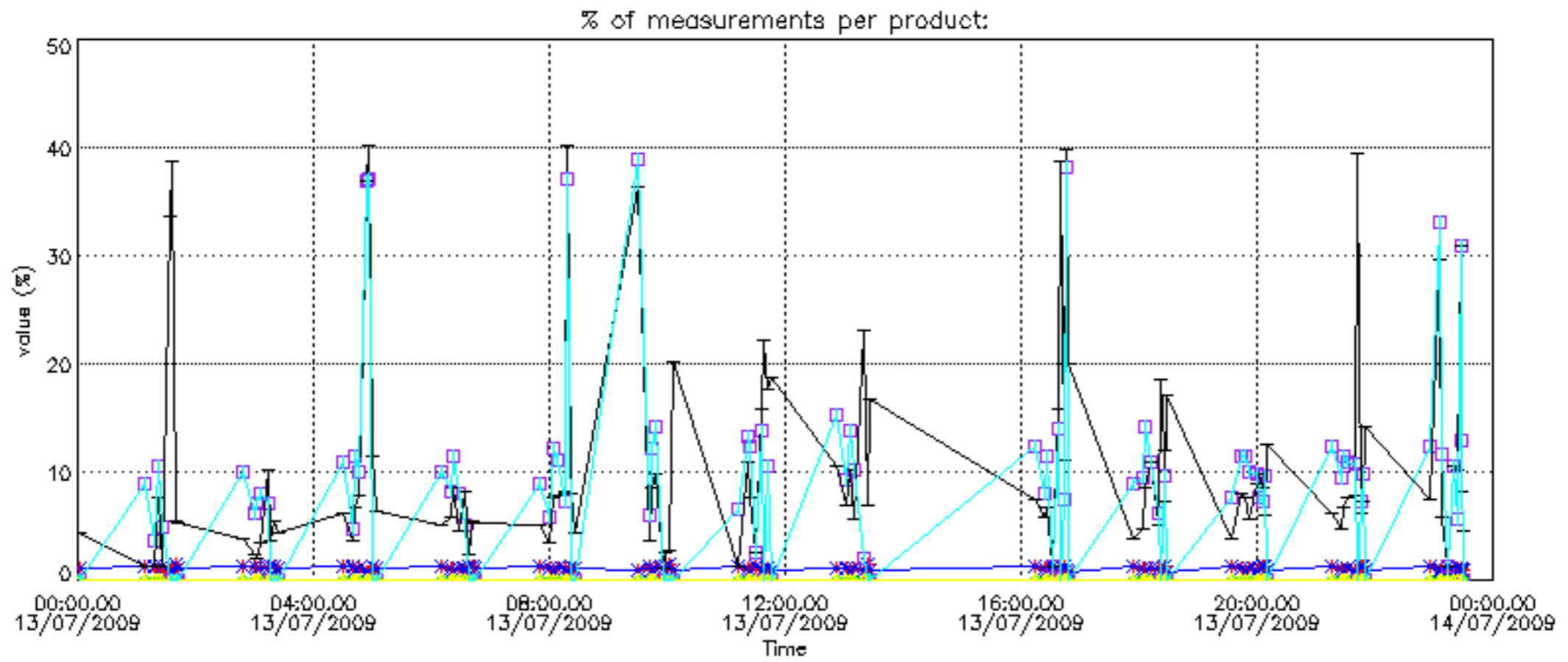
Percentage of flagged data per NO2 profile



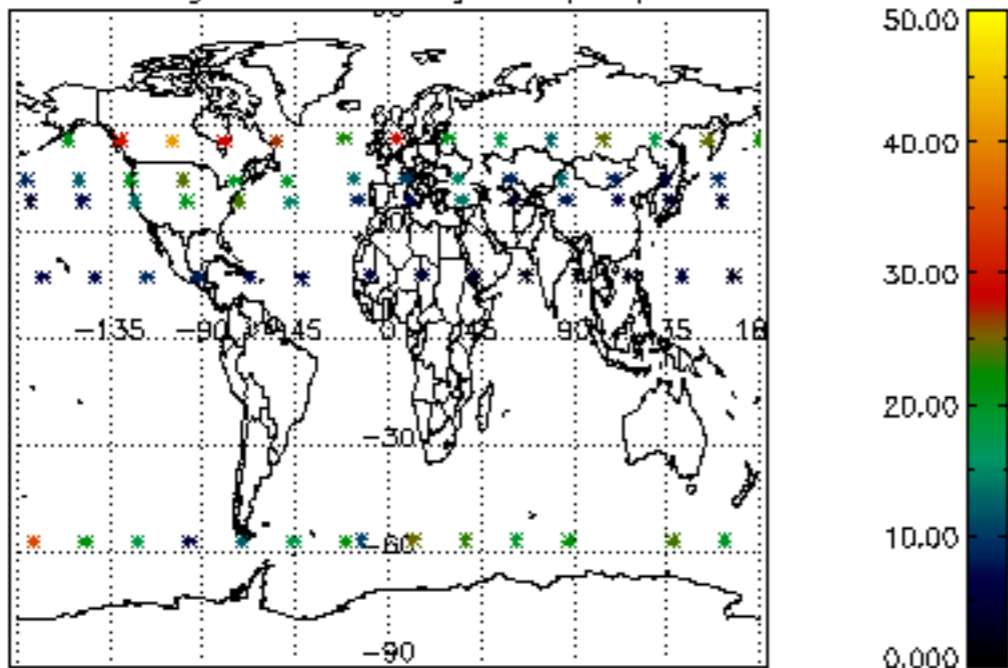
Percentage of flagged data per NO3 profile



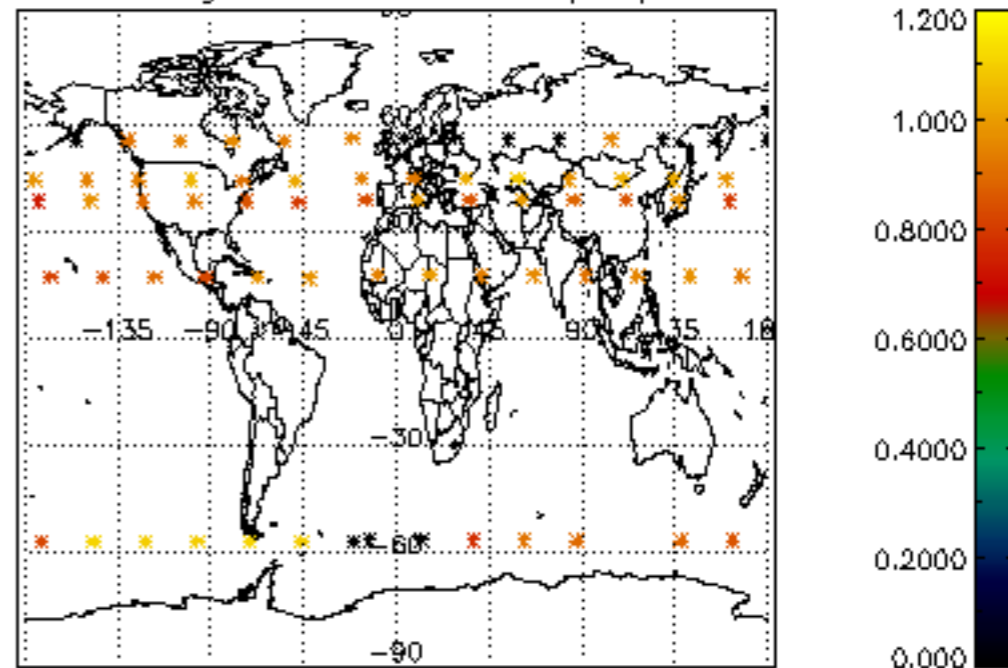




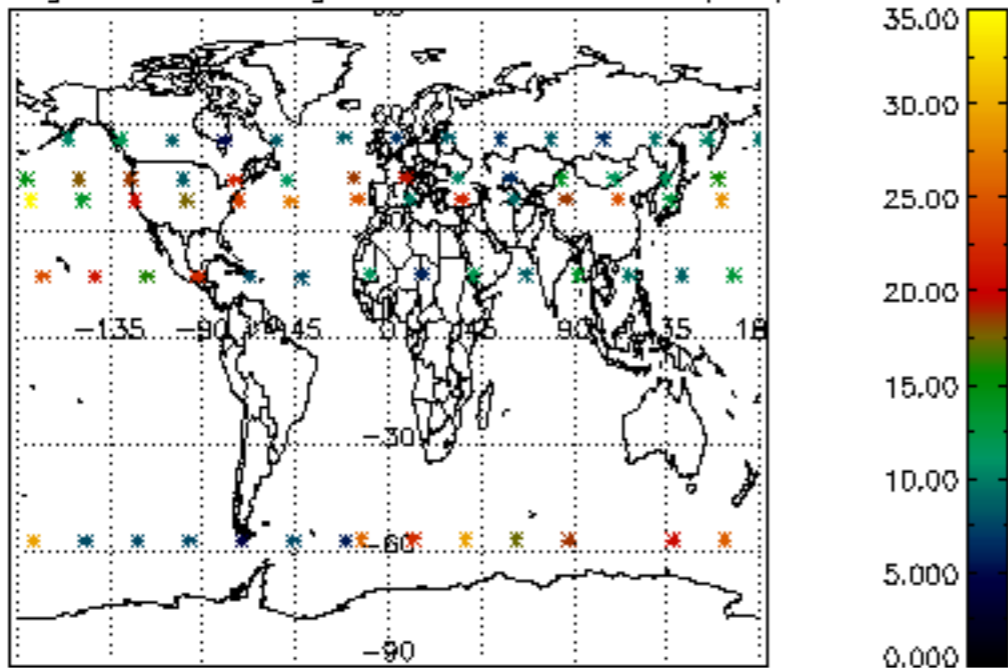
Percentage of cosmic ray hits per profile



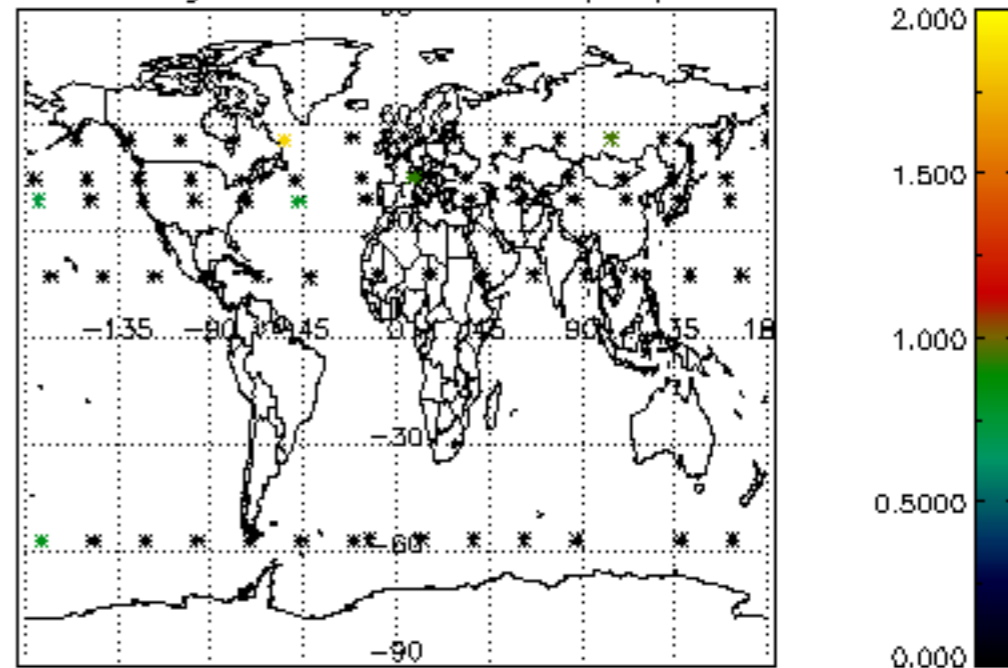
Percentage of datation errors per profile



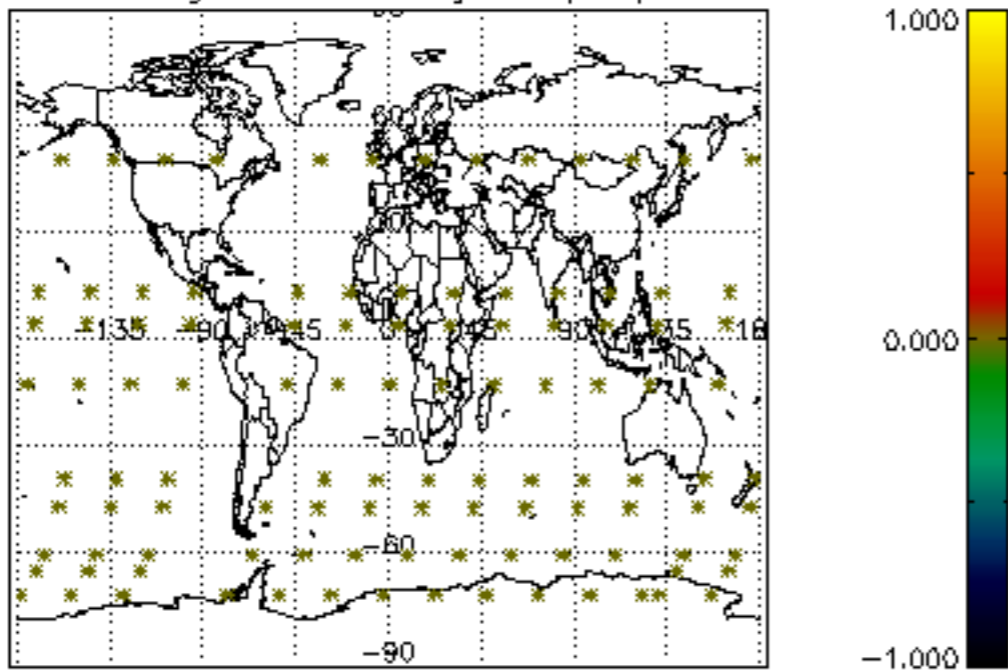
Percentage of star falling outside central band per profile



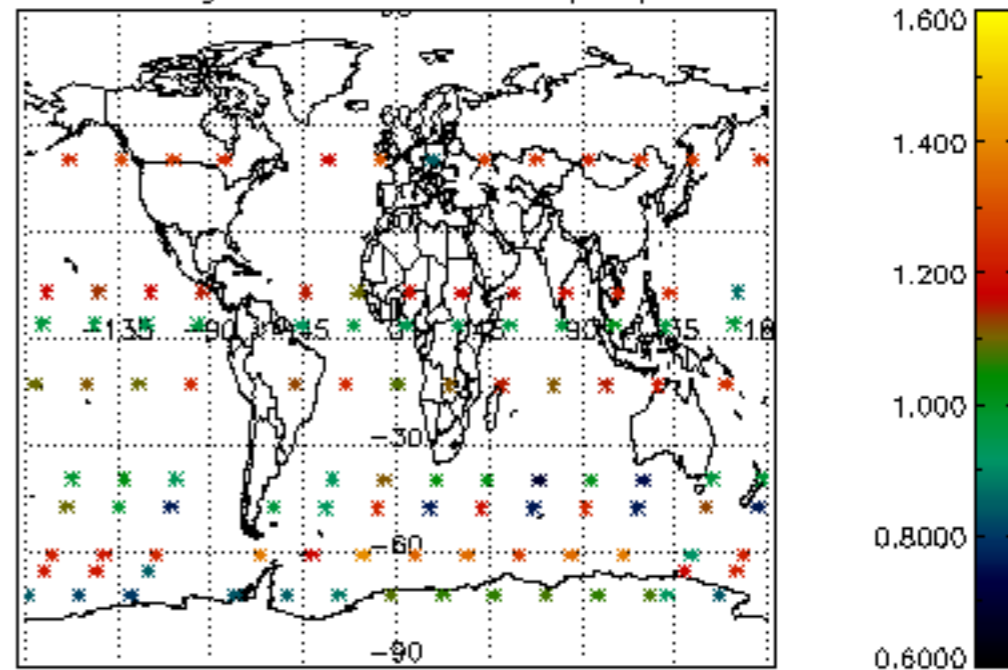
Percentage of saturation errors per profile



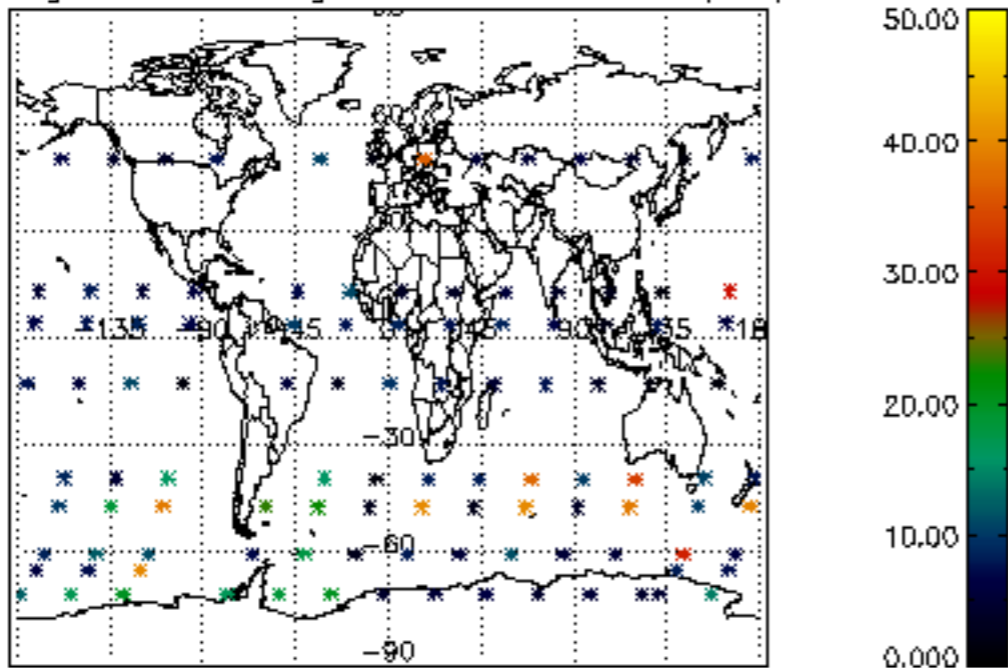
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

