

GOMOS Level 2 Daily Report

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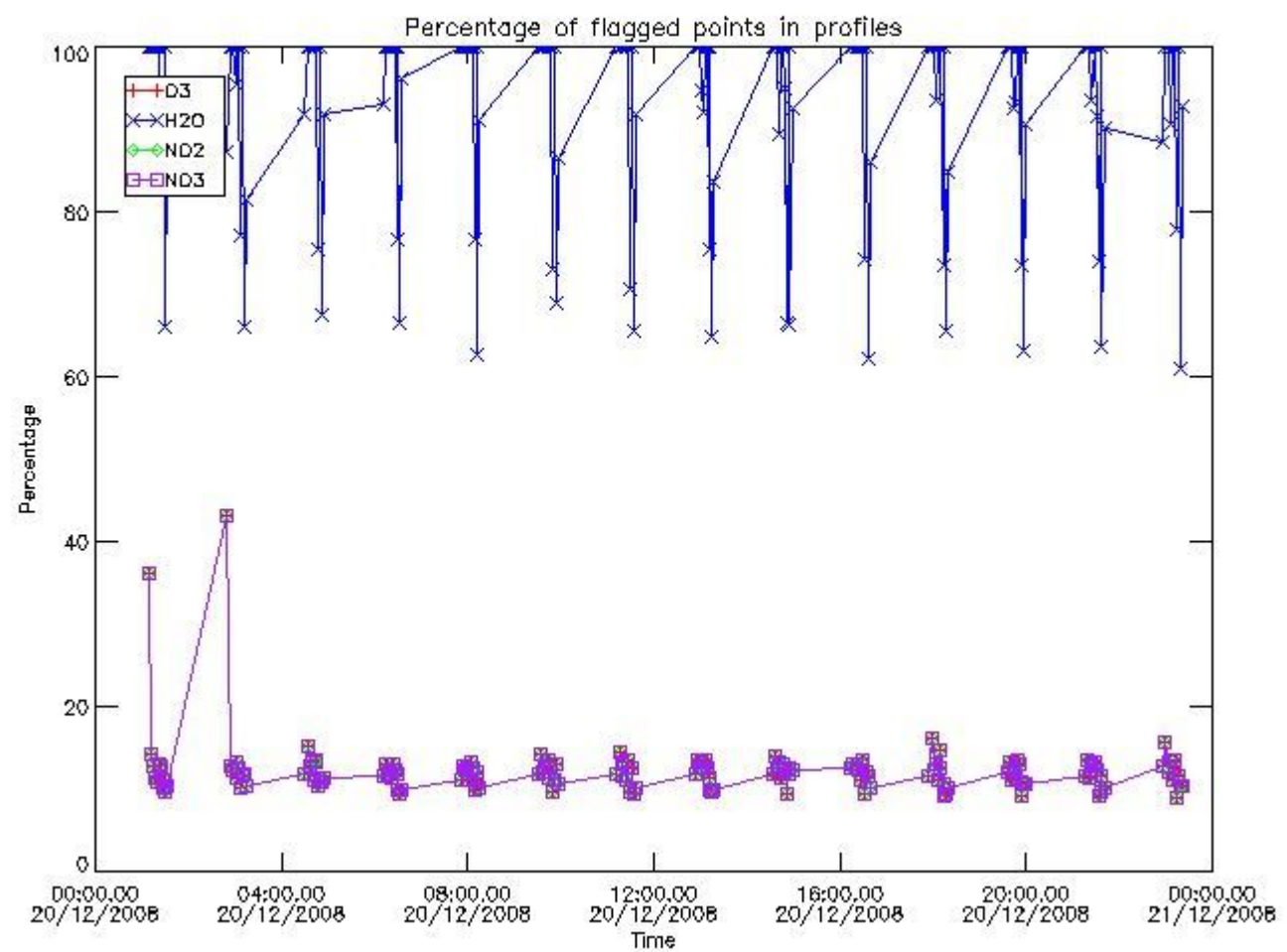
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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that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

Item	Value
Time of report generation	25APR2013 23:58:24
Data source version	GOMOS/6.01
Start time of products	20-12-2008 (20DEC2008 00:00:00)
Stop time of products	21-12-2008 (21DEC2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	429
Nb of prods with errors	0

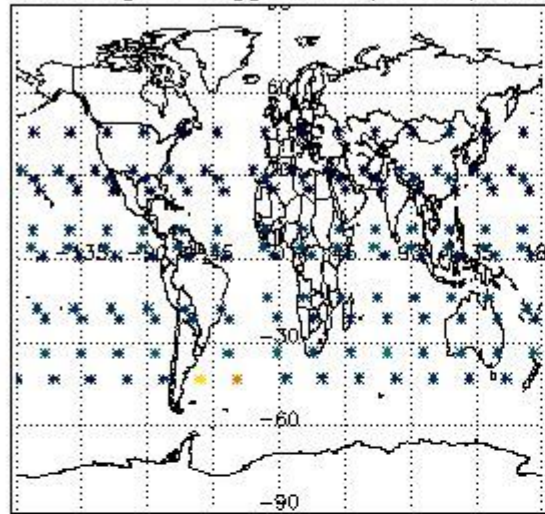
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20081220_000006_000000482074_00460_35584_0855.N1	20-DEC-2008 00:00:06	Straylight	48.000	47	2Bet CMa	1.9760	28000.	96	35584	No
2	GOM_NL__2PRFIN20081220_000333_000000472074_00460_35584_0856.N1	20-DEC-2008 00:03:33	Straylight	46.500	7	19Bet Ori	0.10000	14000.	93	35584	No
3	GOM_NL__2PRFIN20081220_000540_000000462074_00460_35584_0857.N1	20-DEC-2008 00:05:40	Straylight	46.000	30	46Eps Ori	1.6940	30000.	92	35584	No
4	GOM_NL__2PRFIN20081220_000837_000000562074_00460_35584_0858.N1	20-DEC-2008 00:08:37	Twilight_stray	55.500	14	58Alp Ori	0.87000	3000.0	111	35584	No
5	GOM_NL__2PRFIN20081220_001048_000000472074_00460_35584_0859.N1	20-DEC-2008 00:10:48	Twilight_stray	47.000	13	87Alp Tau	0.86700	3800.0	94	35584	No
6	GOM_NL__2PRFIN20081220_001243_000000402074_00460_35584_0860.N1	20-DEC-2008 00:12:43	Bright	40.000	176	23Zet Tau	3.0200	22000.	80	35584	No
7	GOM_NL__2PRFIN20081220_001448_000000412074_00460_35584_0861.N1	20-DEC-2008 00:14:48	Bright	41.000	28	12Bet Tau	1.6500	15200.	82	35584	No
8	GOM_NL__2PRFIN20081220_001811_000000412074_00460_35584_0862.N1	20-DEC-2008 00:18:11	Bright	40.500	107	37The Aur	2.6490	11000.	81	35584	No
9	GOM_NL__2PRFIN20081220_001942_000000412074_00460_35584_0863.N1	20-DEC-2008 00:19:42	Bright	40.500	6	13Alp Aur	0.080000	3400.0	81	35584	No
10	GOM_NL__2PRFIN20081220_003122_000000352074_00460_35584_0864.N1	20-DEC-2008 00:31:22	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	35584	No
11	GOM_NL__2PRFIN20081220_003603_000000332074_00460_35584_0865.N1	20-DEC-2008 00:36:03	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	35584	No
12	GOM_NL__2PRFIN20081220_004028_000000432074_00460_35584_0866.N1	20-DEC-2008 00:40:28	Bright	43.000	32	77Eps UMa	1.7630	11000.	86	35584	No
13	GOM_NL__2PRFIN20081220_004313_000000602074_00460_35584_0867.N1	20-DEC-2008 00:43:13	Bright	60.000	39	85Eta UMa	1.8540	24000.	120	35584	No
14	GOM_NL__2PRFIN20081220_004643_000000392074_00460_35584_0868.N1	20-DEC-2008 00:46:43	Bright	39.000	180	27Gam Boo	3.0400	8000.0	78	35584	No
15	GOM_NL__2PRFIN20081220_005001_000000422074_00460_35584_0869.N1	20-DEC-2008 00:50:01	Bright	42.000	83		2.3780	11000.	84	35584	No
16	GOM_NL__2PRFIN20081220_005331_000000422074_00460_35584_0870.N1	20-DEC-2008 00:53:31	Bright	41.500	111	8Eta Boo	2.6800	6000.0	83	35584	No
17	GOM_NL__2PRFIN20081220_010213_000000392074_00460_35584_0871.N1	20-DEC-2008 01:02:13	Bright	39.000	122	9Alp2Lib	2.7470	9700.0	78	35584	No
18	GOM_NL__2PRFIN20081220_010355_000000522074_00460_35584_0872.N1	20-DEC-2008 01:03:55	Twilight_stray	52.000	15	67Alp Vir	0.97600	28000.	104	35584	No
19	GOM_NL__2PRFIN20081220_010844_000000442074_00460_35584_0873.N1	20-DEC-2008 01:08:44	Dark	43.500	54	5The Cen	2.0550	4500.0	87	35584	No
20	GOM_NL__2PRFIN20081220_011143_000000402074_00460_35584_0874.N1	20-DEC-2008 01:11:43	Dark	39.500	95	Zet Cen	2.5450	26000.	79	35584	No
21	GOM_NL__2PRFIN20081220_011437_000000402074_00460_35584_0875.N1	20-DEC-2008 01:14:37	Dark	40.000	64	Gam Cen	2.2000	10600.	80	35584	No
22	GOM_NL__2PRFIN20081220_011615_000000452074_00461_35585_0926.N1	20-DEC-2008 01:16:15	Dark	45.000	20	Bet Cru	1.2530	30000.	90	35585	No
23	GOM_NL__2PRFIN20081220_012021_000000472074_00461_35585_0927.N1	20-DEC-2008 01:20:21	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	35585	No
24	GOM_NL__2PRFIN20081220_012222_000000392074_00461_35585_0928.N1	20-DEC-2008 01:22:22	Dark	39.000	159	Ups Car	2.9200	7200.0	78	35585	No
25	GOM_NL__2PRFIN20081220_012350_000000402074_00461_35585_0929.N1	20-DEC-2008 01:23:50	Dark	40.000	71	Iot Car	2.2460	7700.0	80	35585	No
26	GOM_NL__2PRFIN20081220_012642_000000502074_00461_35585_0930.N1	20-DEC-2008 01:26:42	Dark	50.000	65	Lam Vel	2.2040	4400.0	100	35585	No
27	GOM_NL__2PRFIN20081220_012834_000000462074_00461_35585_0931.N1	20-DEC-2008 01:28:34	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	35585	No
28	GOM_NL__2PRFIN20081220_013023_000000542074_00461_35585_0932.N1	20-DEC-2008 01:30:23	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	35585	No
29	GOM_NL__2PRFIN20081220_013316_000000492074_00461_35585_0933.N1	20-DEC-2008 01:33:16	Dark	49.000	117	Pi Pup	2.7060	3800.0	98	35585	No
30	GOM_NL__2PRFIN20081220_013624_000000502074_00461_35585_0934.N1	20-DEC-2008 01:36:24	Straylight	49.500	23	21Eps CMa	1.5020	26000.	99	35585	No
31	GOM_NL__2PRFIN20081220_014042_000000492074_00461_35585_0935.N1	20-DEC-2008 01:40:42	Straylight	49.000	47	2Bet CMa	1.9760	28000.	98	35585	No
32	GOM_NL__2PRFIN20081220_014409_000000472074_00461_35585_0936.N1	20-DEC-2008 01:44:09	Straylight	47.000	7	19Bet Ori	0.10000	14000.	94	35585	No
33	GOM_NL__2PRFIN20081220_014616_000000462074_00461_35585_0937.N1	20-DEC-2008 01:46:16	Straylight	46.000	30	46Eps Ori	1.6940	30000.	92	35585	No
34	GOM_NL__2PRFIN20081220_014913_000000572074_00461_35585_0938.N1	20-DEC-2008 01:49:13	Twilight_stray	56.500	14	58Alp Ori	0.87000	3000.0	113	35585	No
35	GOM_NL__2PRFIN20081220_015124_000000472074_00461_35585_0939.N1	20-DEC-2008 01:51:24	Twilight_stray	47.000	13	87Alp Tau	0.86700	3800.0	94	35585	No
36	GOM_NL__2PRFIN20081220_015319_000000422074_00461_35585_0940.N1	20-DEC-2008 01:53:19	Bright	42.000	176	23Zet Tau	3.0200	22000.	84	35585	No
37	GOM_NL__2PRFIN20081220_015523_000000412074_00461_35585_0941.N1	20-DEC-2008 01:55:23	Bright	41.000	28	12Bet Tau	1.6500	15200.	82	35585	No
38	GOM_NL__2PRFIN20081220_015846_000000422074_00461_35585_0942.N1	20-DEC-2008 01:58:46	Bright	42.000	107	37The Aur	2.6490	11000.	84	35585	No
39	GOM_NL__2PRFIN20081220_020018_000000422074_00461_35585_0943.N1	20-DEC-2008 02:00:18	Bright	42.000	6	13Alp Aur	0.080000	3400.0	84	35585	No
40	GOM_NL__2PRFIN20081220_021158_000000362074_00461_35585_0944.N1	20-DEC-2008 02:11:58	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	35585	No
41	GOM_NL__2PRFIN20081220_021639_000000362074_00461_35585_0945.N1	20-DEC-2008 02:16:39	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	35585	No
42	GOM_NL__2PRFIN20081220_022103_000000422074_00461_35585_0946.N1	20-DEC-2008 02:21:03	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	35585	No

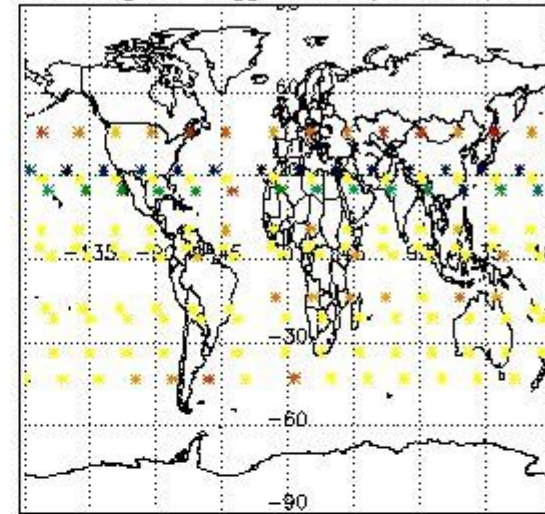


3.2 Plot quality information per product (world map)

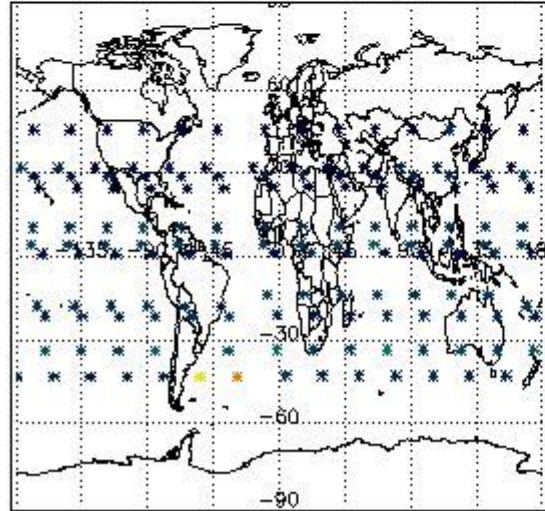
Percentage of flagged data per O3 profile



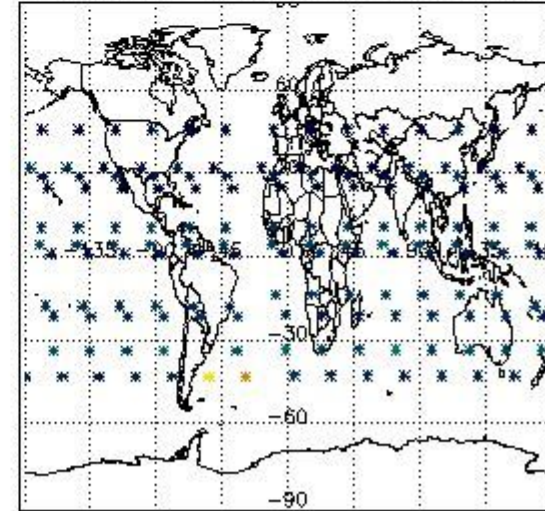
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

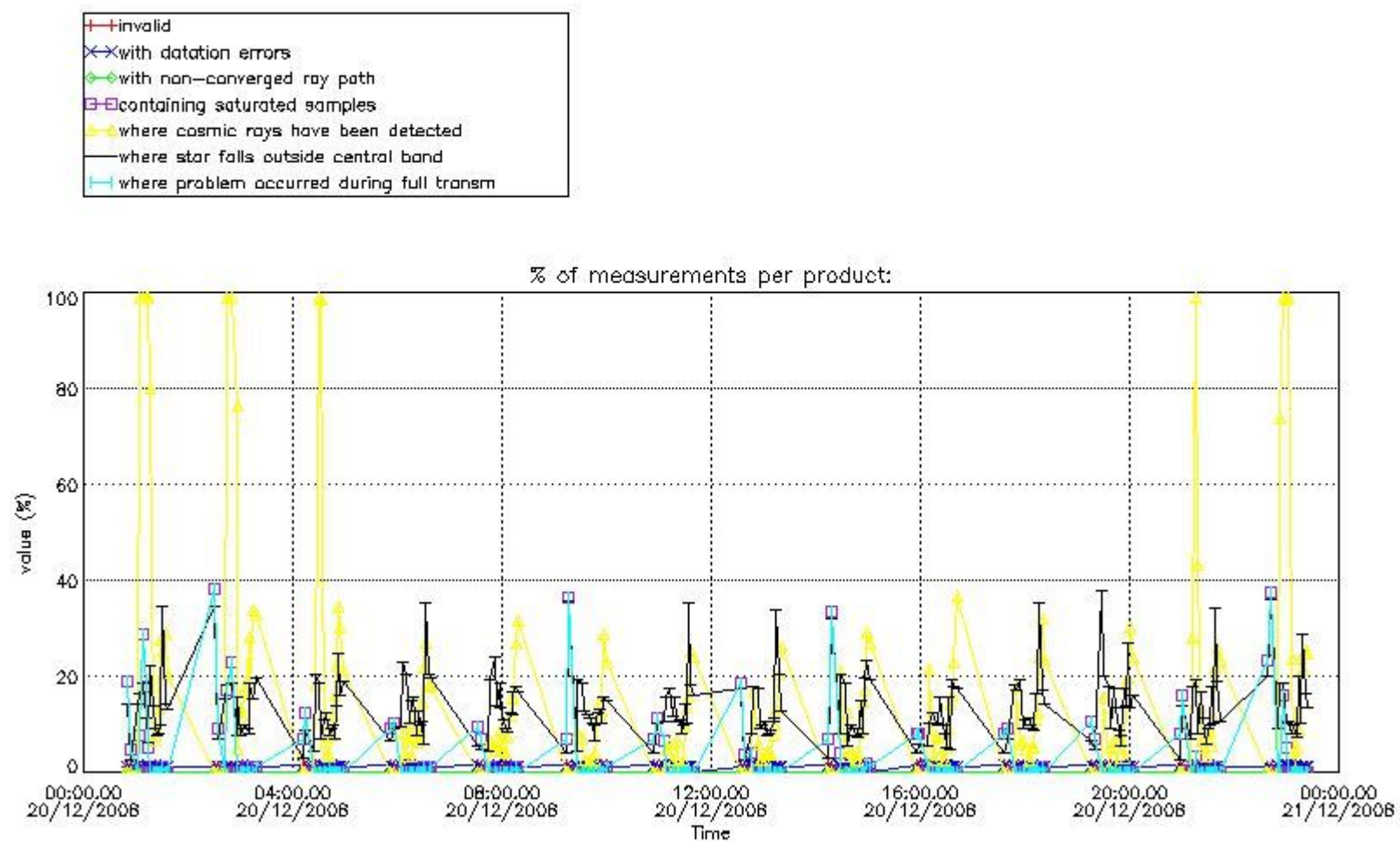


4. Level 1 quality information per product

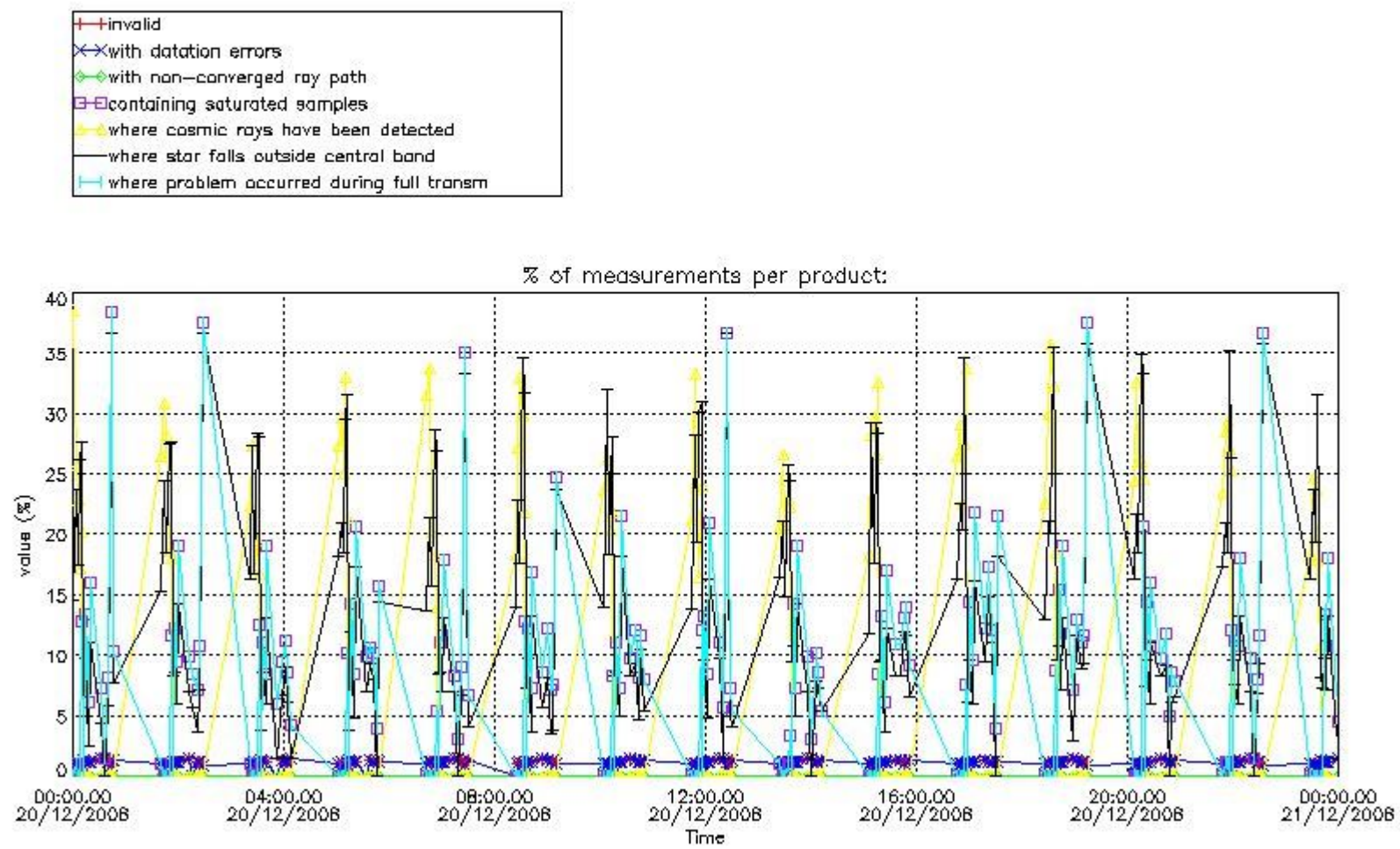
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



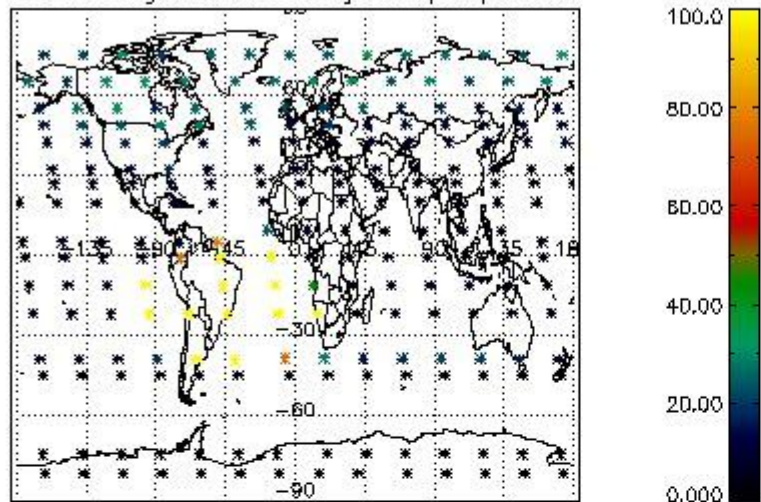
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



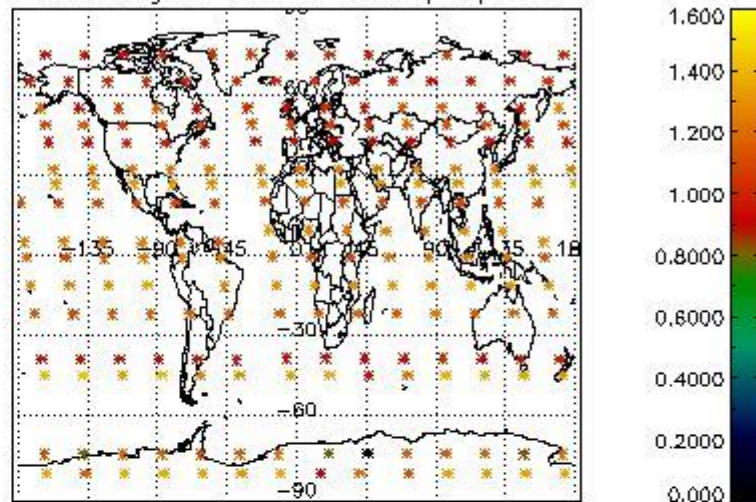
4.2 Plot quality information per product coming from level 1b processing (world map)

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

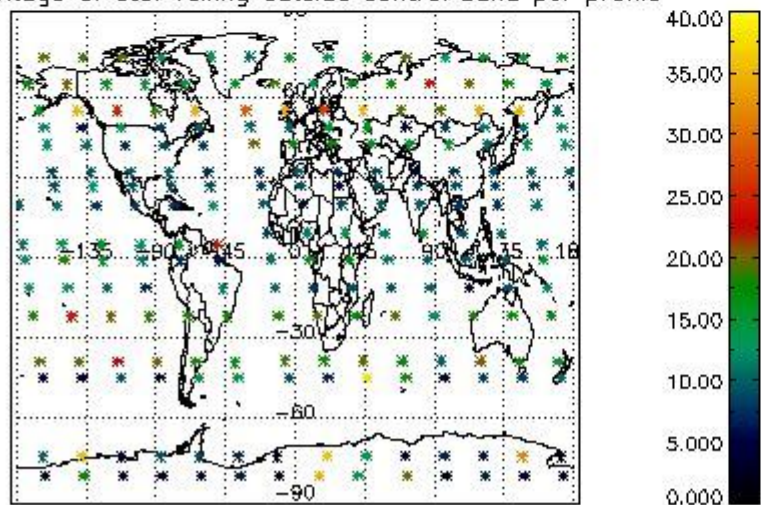
Percentage of cosmic ray hits per profile



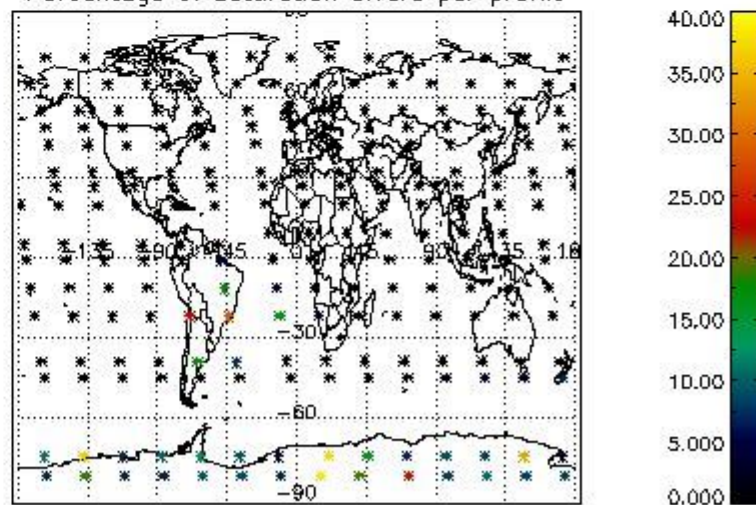
Percentage of datation errors per profile



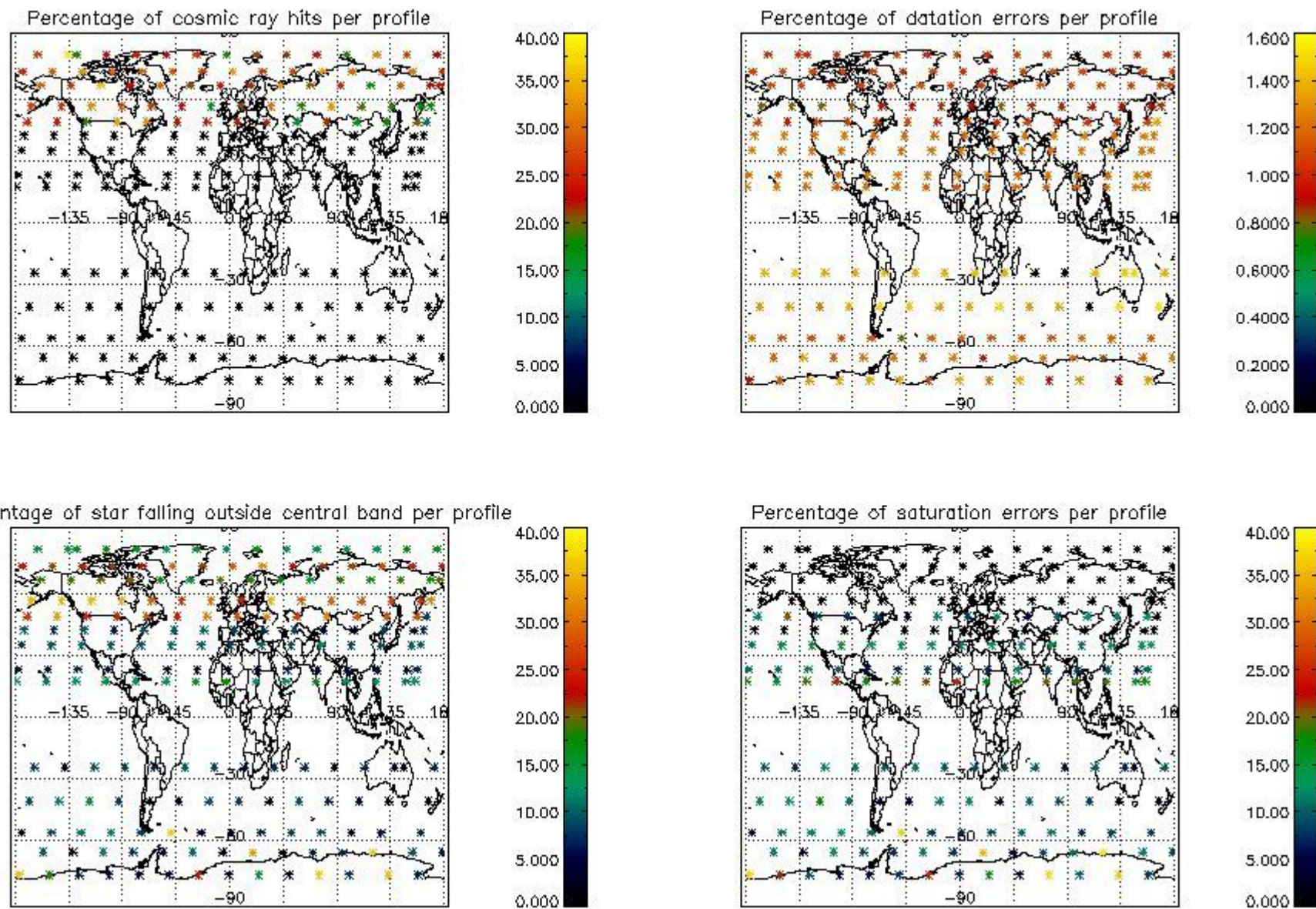
Percentage of star falling outside central band per profile



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

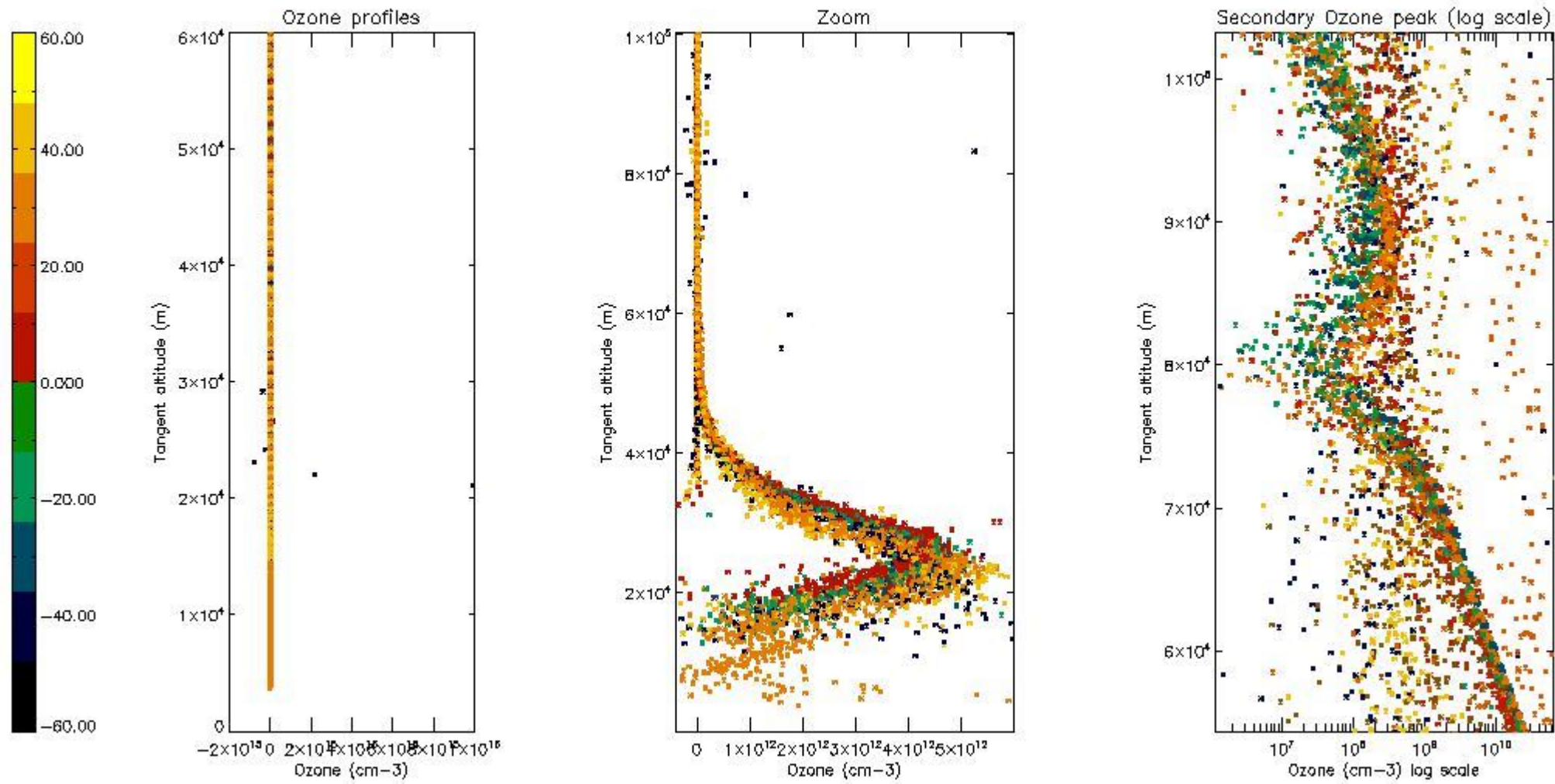
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	16

STD < 10	12
STD < 5	7

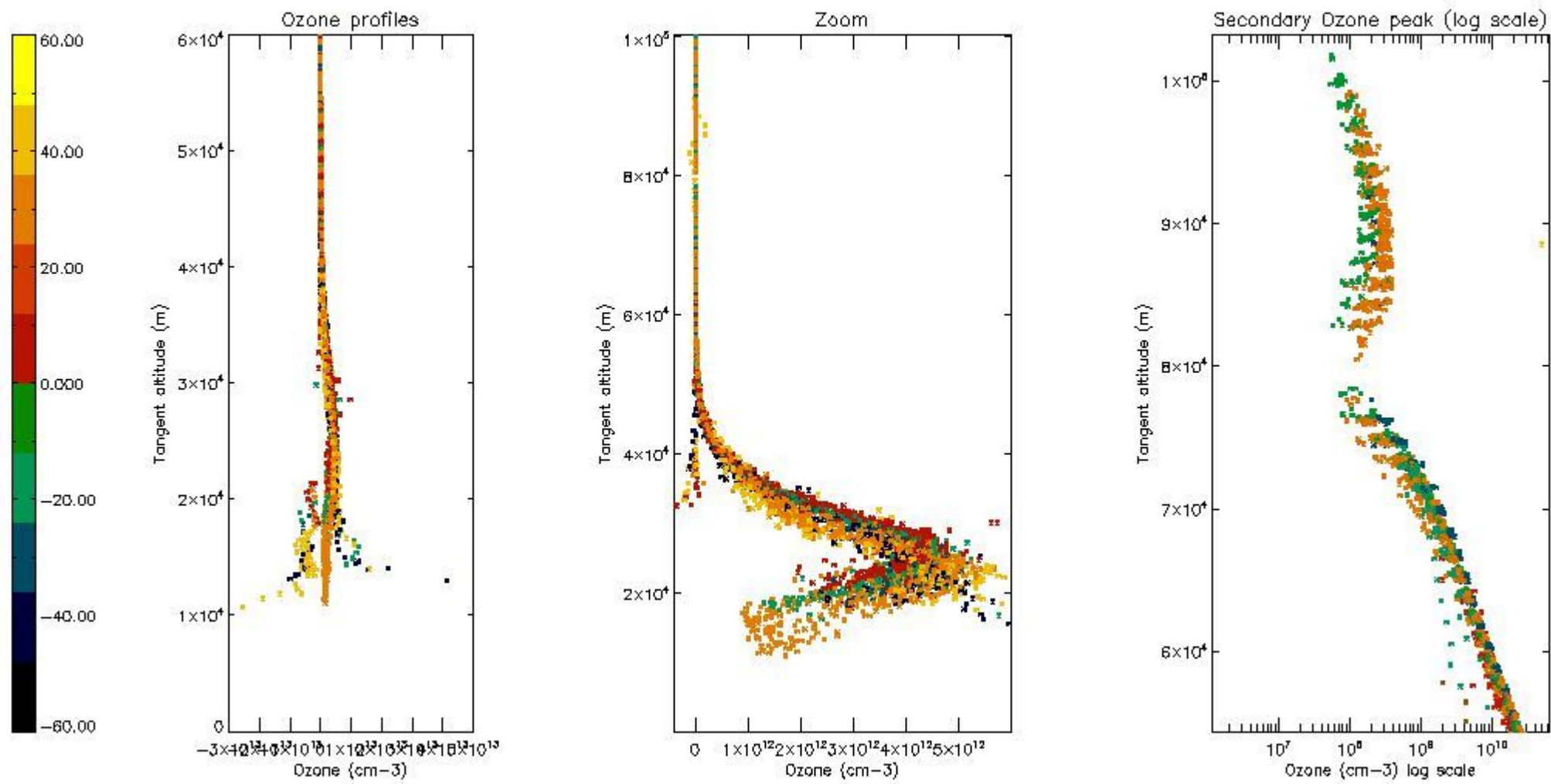
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



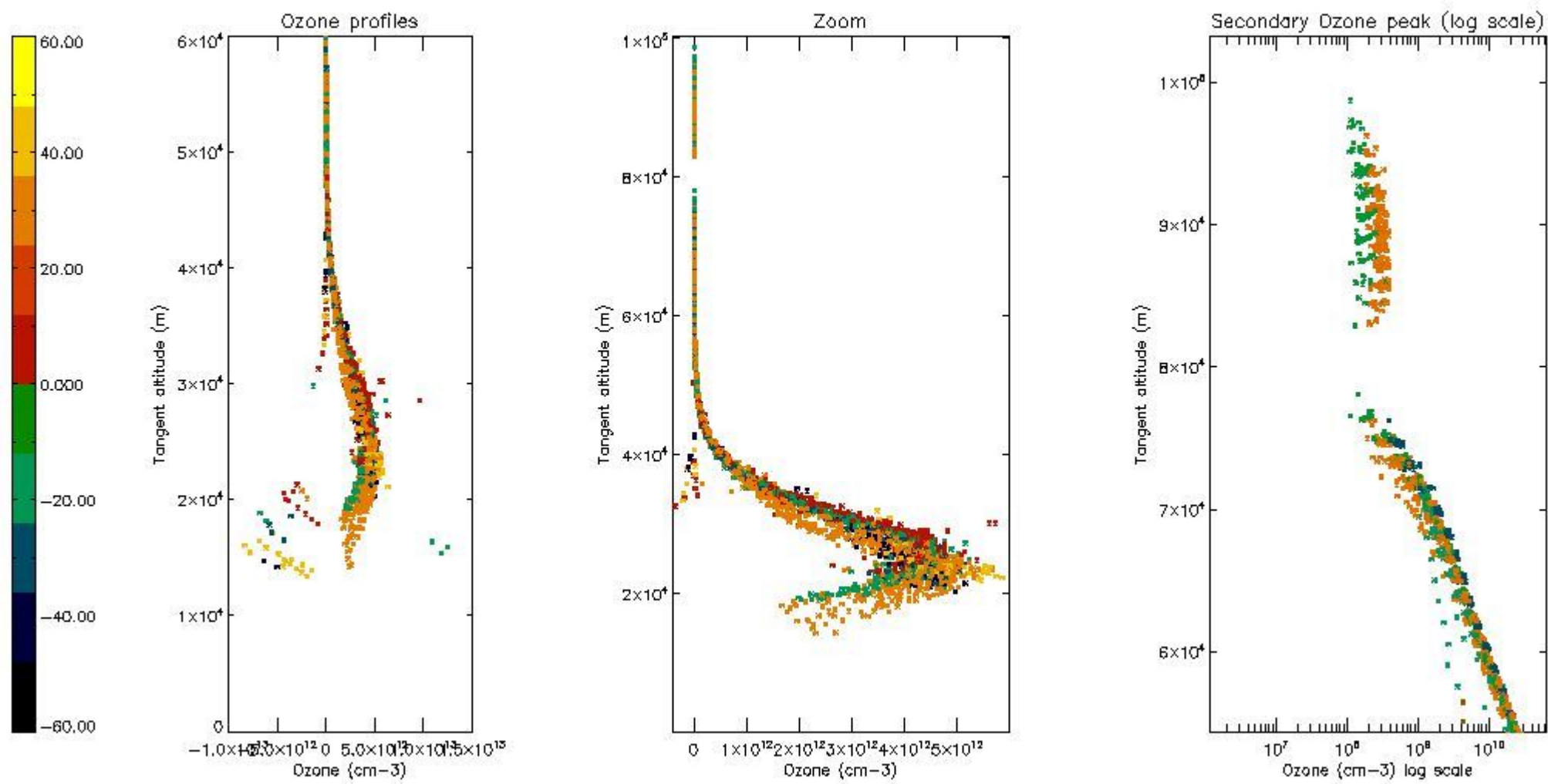
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



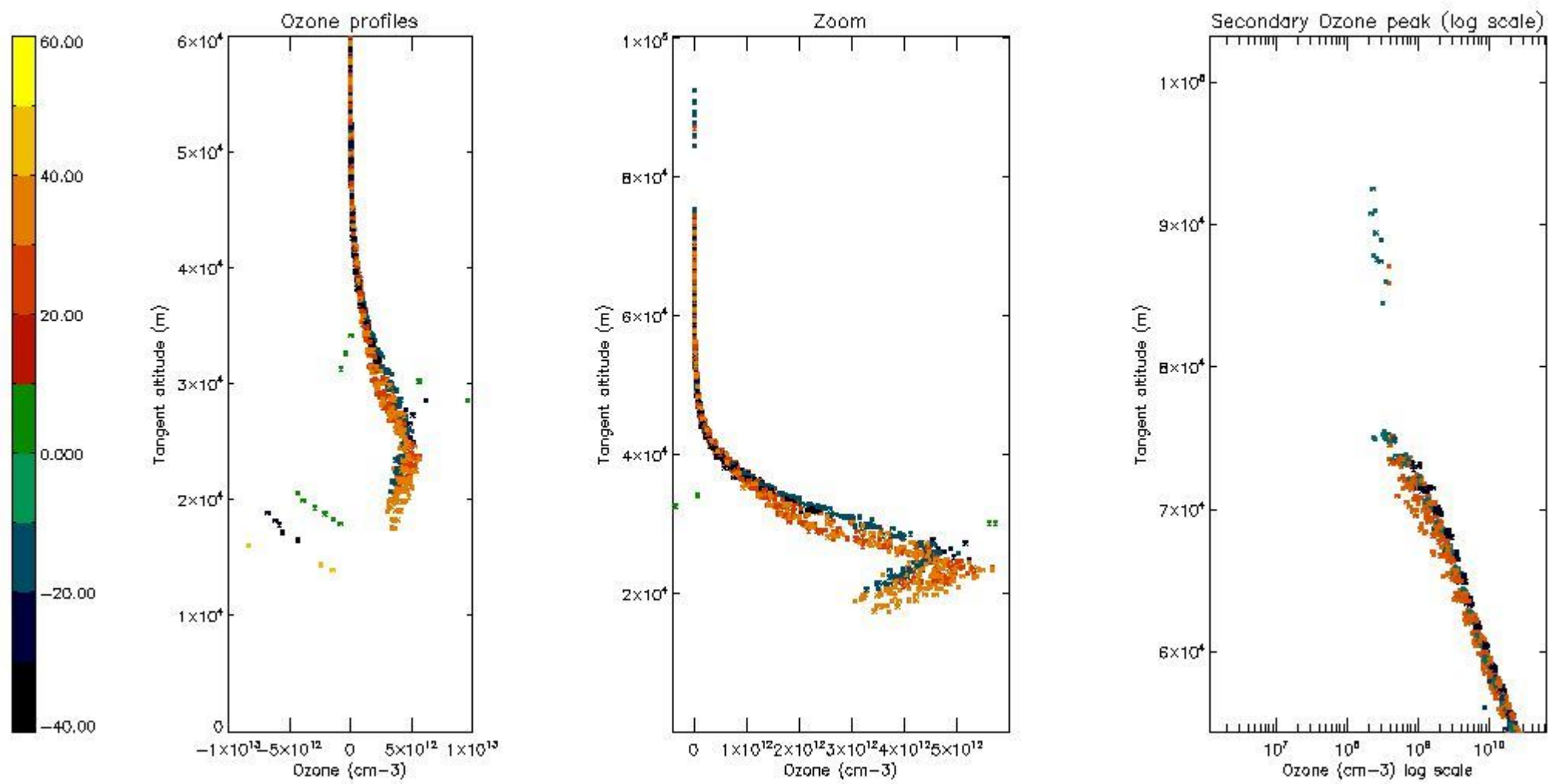
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



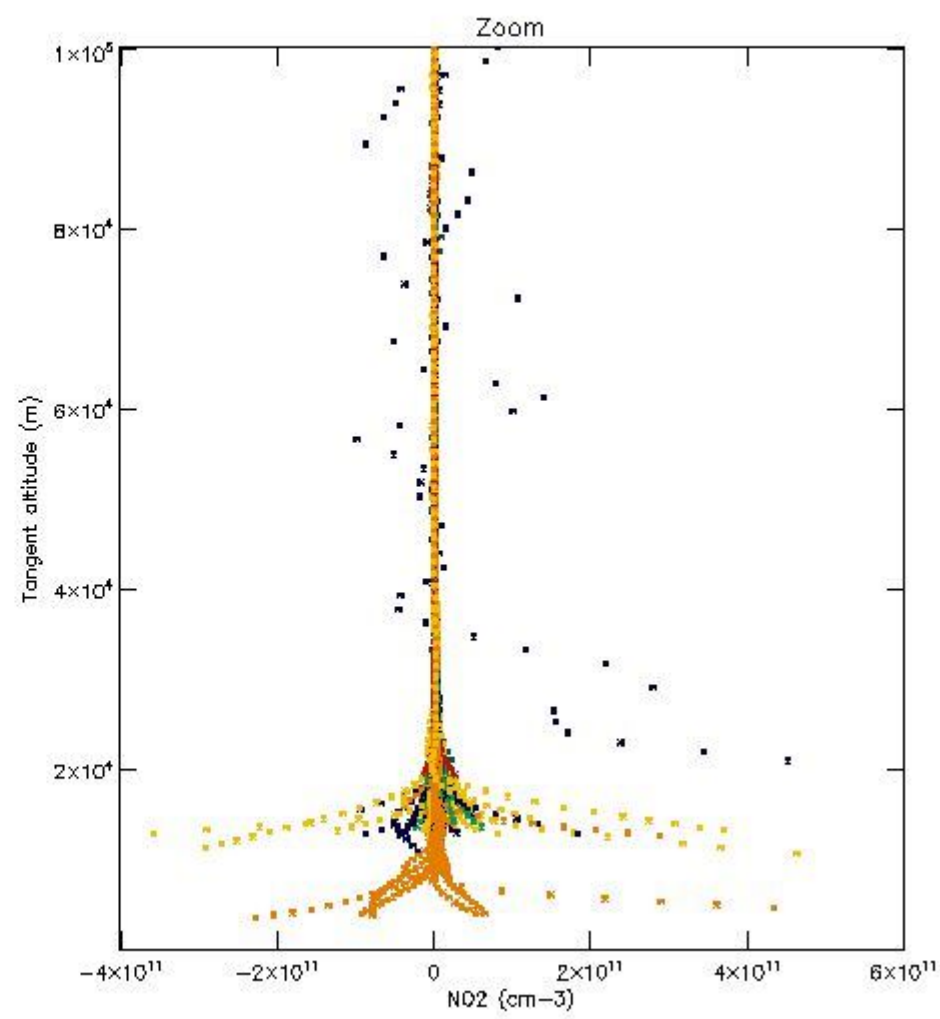
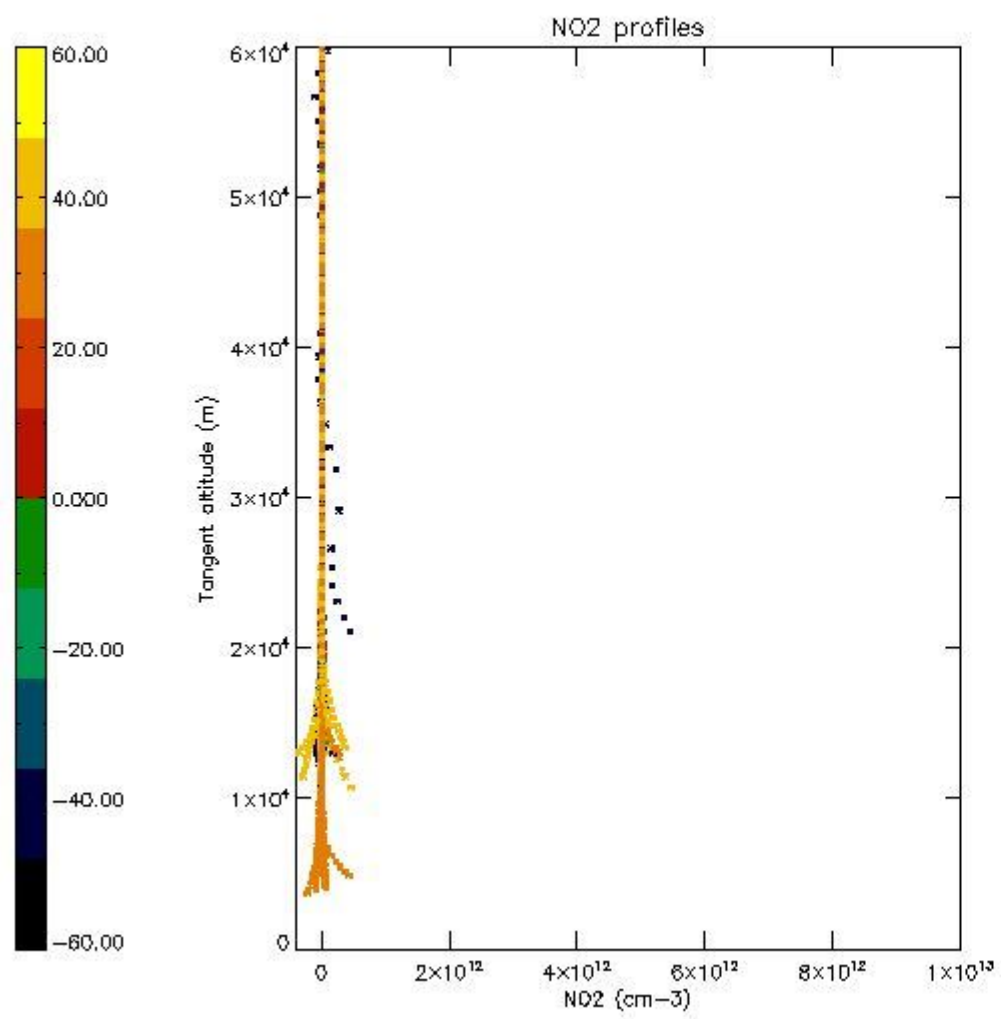
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



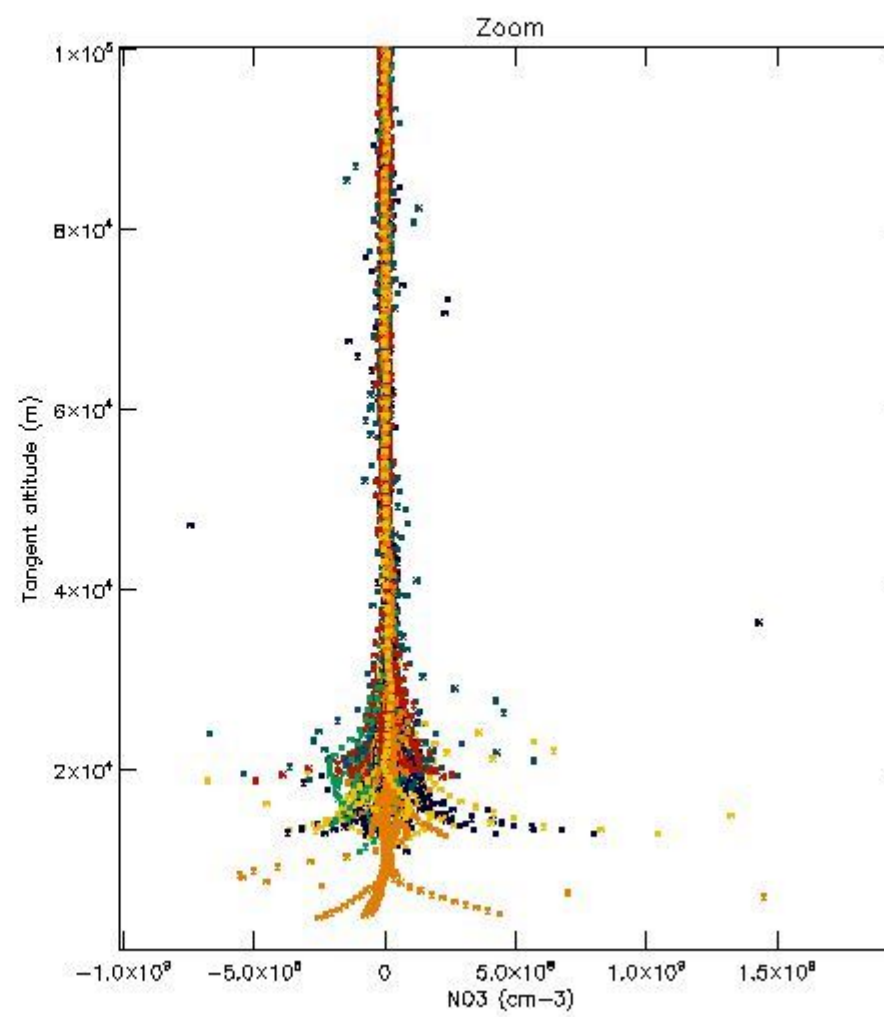
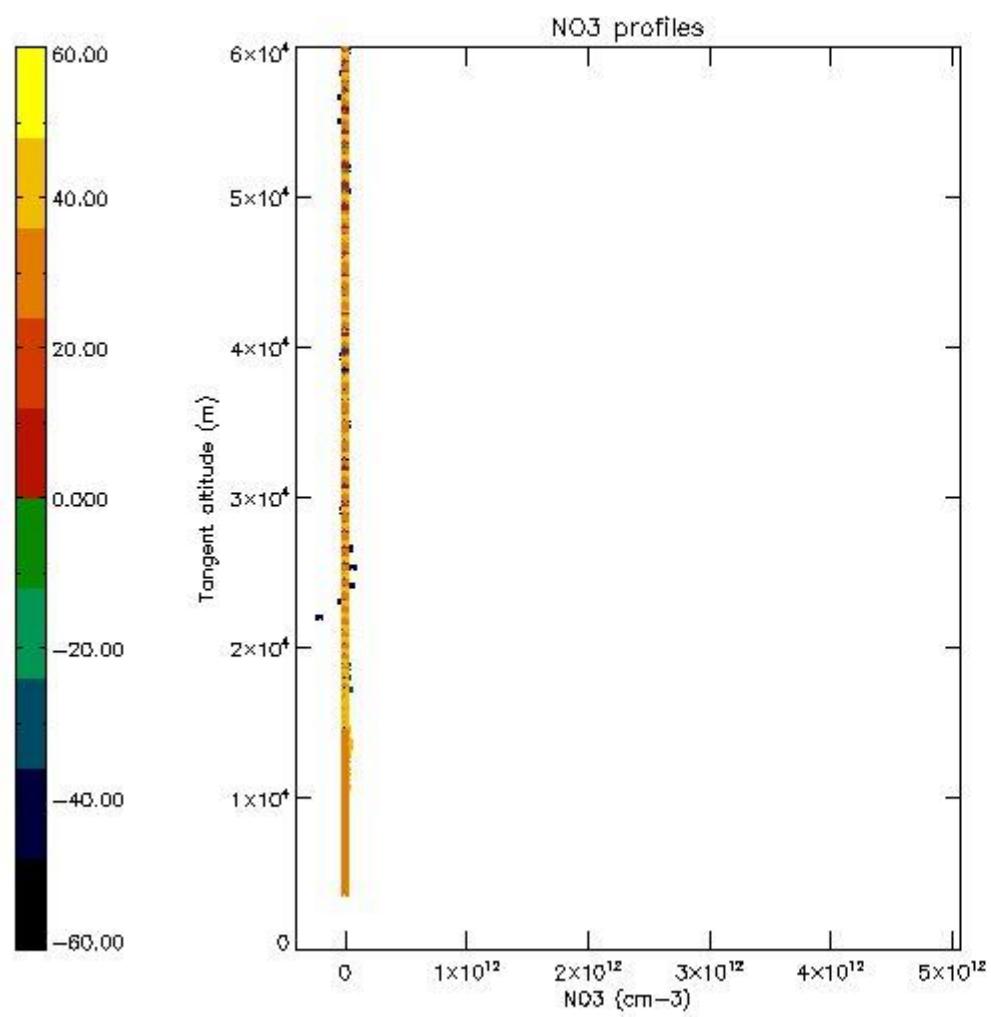
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



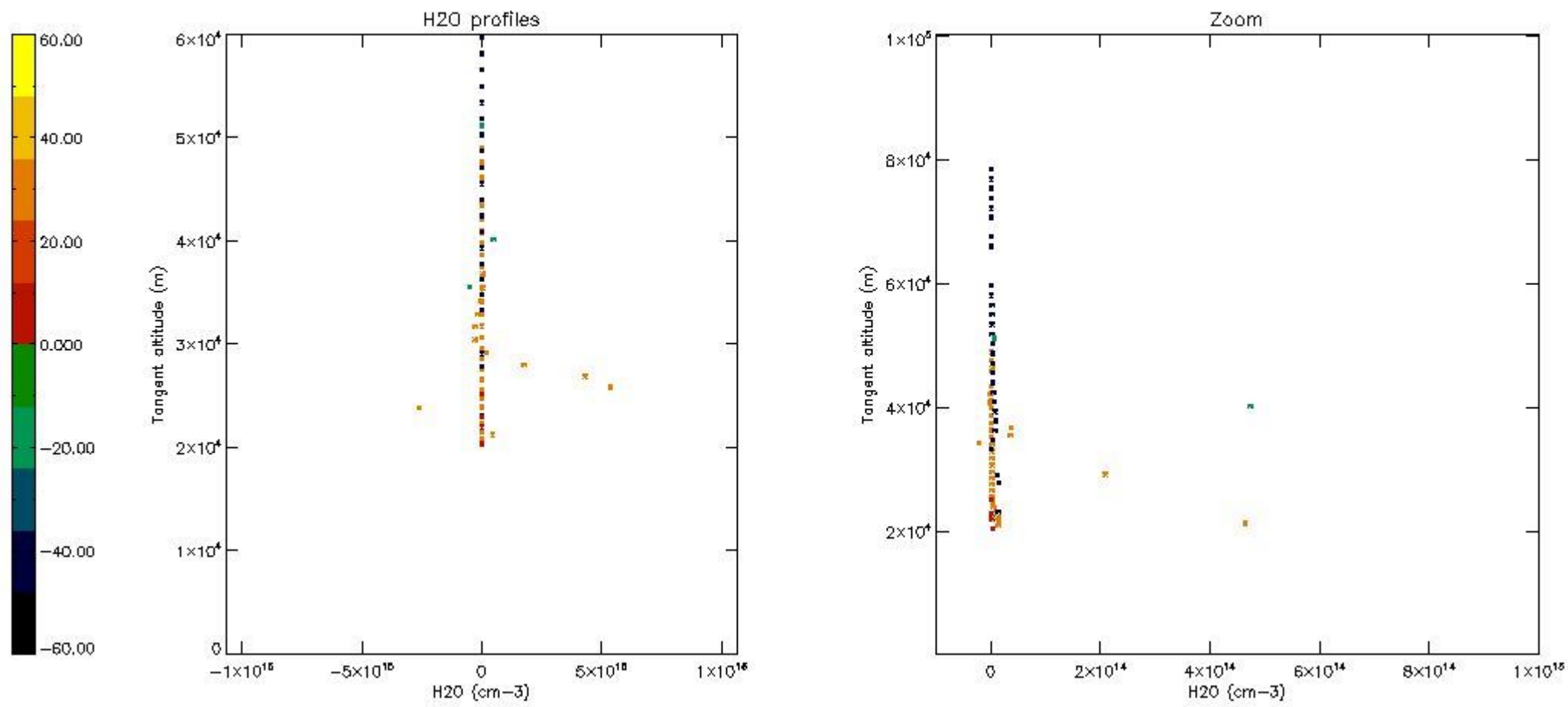
5.7 Plot NO3 profiles for all STD (dark without errors)

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	20-DEC-2008 00:00:06
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-DEC-2008 00:00:06
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-DEC-2008 00:00:06

GOMOS Level 2 Daily Report

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[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](#)

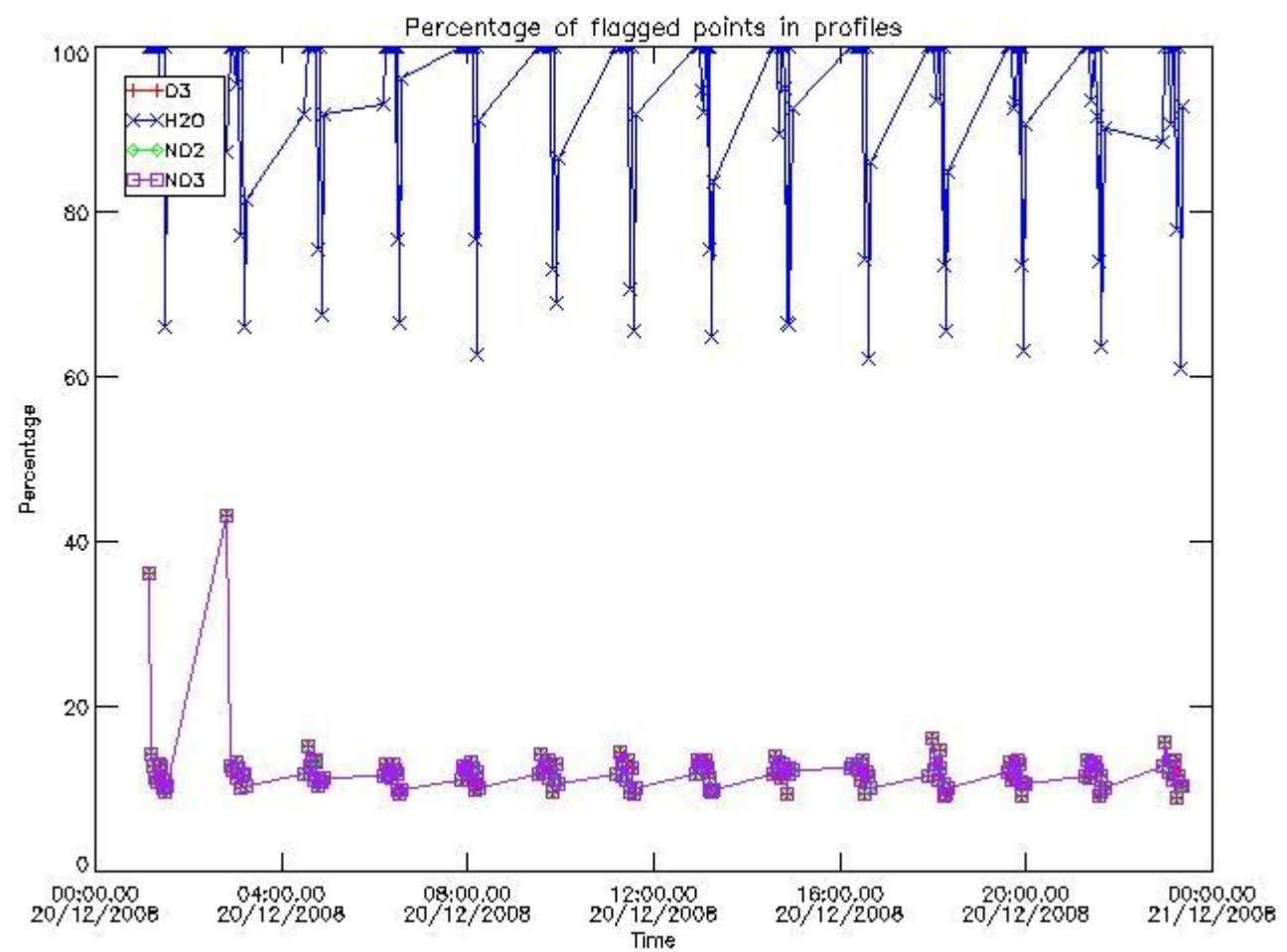
[6. Auxiliary Data Files used for the production reported in section 2](#)

397	GOM_NL__2PRFIN20081220_220551_000000422074_00473_35597_1110.N1	20-DEC-2008 22:05:51	Bright	42.000	107	37The Aur	2.6490	11000.	84	35597	No
398	GOM_NL__2PRFIN20081220_220726_000000422074_00473_35597_1111.N1	20-DEC-2008 22:07:26	Bright	41.500	6	13Alp Aur	0.080000	3400.0	83	35597	No
399	GOM_NL__2PRFIN20081220_221909_000000362074_00473_35597_1112.N1	20-DEC-2008 22:19:09	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	35597	No
400	GOM_NL__2PRFIN20081220_222349_000000332074_00473_35597_1113.N1	20-DEC-2008 22:23:49	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	35597	No
401	GOM_NL__2PRFIN20081220_222811_000000442074_00473_35597_1114.N1	20-DEC-2008 22:28:11	Bright	44.000	32	77Eps UMa	1.7630	11000.	88	35597	No
402	GOM_NL__2PRFIN20081220_223059_000000432074_00473_35597_1115.N1	20-DEC-2008 22:30:59	Bright	43.000	39	85Eta UMa	1.8540	24000.	86	35597	No
403	GOM_NL__2PRFIN20081220_223431_000000562074_00473_35597_1116.N1	20-DEC-2008 22:34:31	Bright	56.000	180	27Gam Boo	3.0400	8000.0	112	35597	No
404	GOM_NL__2PRFIN20081220_223751_000000452074_00473_35597_1117.N1	20-DEC-2008 22:37:51	Bright	45.000	83		2.3780	11000.	90	35597	No
405	GOM_NL__2PRFIN20081220_224122_000000642074_00473_35597_1118.N1	20-DEC-2008 22:41:22	Bright	64.000	111	8Eta Boo	2.6800	6000.0	128	35597	No
406	GOM_NL__2PRFIN20081220_225005_000000382074_00473_35597_1119.N1	20-DEC-2008 22:50:05	Bright	38.000	122	9Alp2Lib	2.7470	9700.0	76	35597	No
407	GOM_NL__2PRFIN20081220_225153_000000542074_00473_35597_1120.N1	20-DEC-2008 22:51:53	Twilight	53.500	15	67Alp Vir	0.97600	28000.	107	35597	No
408	GOM_NL__2PRFIN20081220_225638_000000442074_00473_35597_1121.N1	20-DEC-2008 22:56:38	Dark	43.500	54	5The Cen	2.0550	4500.0	87	35597	No
409	GOM_NL__2PRFIN20081220_225936_000000392074_00473_35597_1122.N1	20-DEC-2008 22:59:36	Dark	39.000	95	Zet Cen	2.5450	26000.	78	35597	No
410	GOM_NL__2PRFIN20081220_230233_000000422074_00473_35597_1123.N1	20-DEC-2008 23:02:33	Dark	42.000	64	Gam Cen	2.2000	10600.	84	35597	No
411	GOM_NL__2PRFIN20081220_230517_000000382074_00474_35598_1233.N1	20-DEC-2008 23:05:17	Dark	38.000	12	Alp1Cru	0.77500	30000.	76	35598	No
412	GOM_NL__2PRFIN20081220_230819_000000462074_00474_35598_1234.N1	20-DEC-2008 23:08:19	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	35598	No
413	GOM_NL__2PRFIN20081220_231016_000000382074_00474_35598_1235.N1	20-DEC-2008 23:10:16	Dark	38.000	159	Ups Car	2.9200	7200.0	76	35598	No
414	GOM_NL__2PRFIN20081220_231145_000000412074_00474_35598_1236.N1	20-DEC-2008 23:11:45	Dark	40.500	71	Iot Car	2.2460	7700.0	81	35598	No
415	GOM_NL__2PRFIN20081220_231441_000000572074_00474_35598_1237.N1	20-DEC-2008 23:14:41	Dark	57.000	65	Lam Vel	2.2040	4400.0	114	35598	No
416	GOM_NL__2PRFIN20081220_231630_000000452074_00474_35598_1238.N1	20-DEC-2008 23:16:30	Dark	44.500	34	Gam2Vel	1.7930	23000.	89	35598	No
417	GOM_NL__2PRFIN20081220_231815_000000492074_00474_35598_1239.N1	20-DEC-2008 23:18:15	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	35598	No
418	GOM_NL__2PRFIN20081220_232110_000000492074_00474_35598_1240.N1	20-DEC-2008 23:21:10	Dark	49.000	117	Pi Pup	2.7060	3800.0	98	35598	No
419	GOM_NL__2PRFIN20081220_232415_000000492074_00474_35598_1241.N1	20-DEC-2008 23:24:15	Straylight	48.500	23	21Eps CMa	1.5020	26000.	97	35598	No
420	GOM_NL__2PRFIN20081220_232831_000000492074_00474_35598_1242.N1	20-DEC-2008 23:28:31	Straylight	49.000	47	2Bet CMa	1.9760	28000.	98	35598	No
421	GOM_NL__2PRFIN20081220_233157_000000472074_00474_35598_1243.N1	20-DEC-2008 23:31:57	Straylight	46.500	7	19Bet Ori	0.10000	14000.	93	35598	No
422	GOM_NL__2PRFIN20081220_233403_000000472074_00474_35598_1244.N1	20-DEC-2008 23:34:03	Straylight	46.500	30	46Eps Ori	1.6940	30000.	93	35598	No
423	GOM_NL__2PRFIN20081220_233657_000000592074_00474_35598_1245.N1	20-DEC-2008 23:36:57	Twilight	58.500	14	58Alp Ori	0.87000	3000.0	117	35598	No
424	GOM_NL__2PRFIN20081220_233911_000000372074_00474_35598_1246.N1	20-DEC-2008 23:39:11	Twilight	37.000	13	87Alp Tau	0.86700	3800.0	74	35598	No
425	GOM_NL__2PRFIN20081220_234102_000000412074_00474_35598_1247.N1	20-DEC-2008 23:41:02	Bright	41.000	176	23Zet Tau	3.0200	22000.	82	35598	No
426	GOM_NL__2PRFIN20081220_234306_000000412074_00474_35598_1248.N1	20-DEC-2008 23:43:06	Bright	41.000	28	12Bet Tau	1.6500	15200.	82	35598	No
427	GOM_NL__2PRFIN20081220_234627_000000422074_00474_35598_1249.N1	20-DEC-2008 23:46:27	Bright	42.000	107	37The Aur	2.6490	11000.	84	35598	No
428	GOM_NL__2PRFIN20081220_234801_000000422074_00474_35598_1250.N1	20-DEC-2008 23:48:01	Bright	41.500	6	13Alp Aur	0.080000	3400.0	83	35598	No
429	GOM_NL__2PRFIN20081220_235945_000000342074_00474_35598_1251.N1	20-DEC-2008 23:59:45	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	35598	No

3. Quality information per product

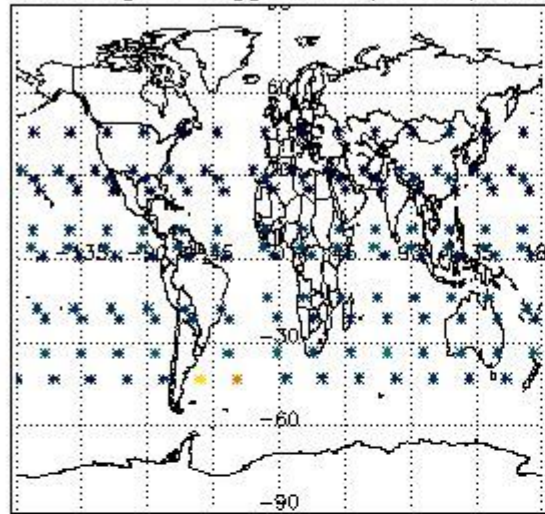
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

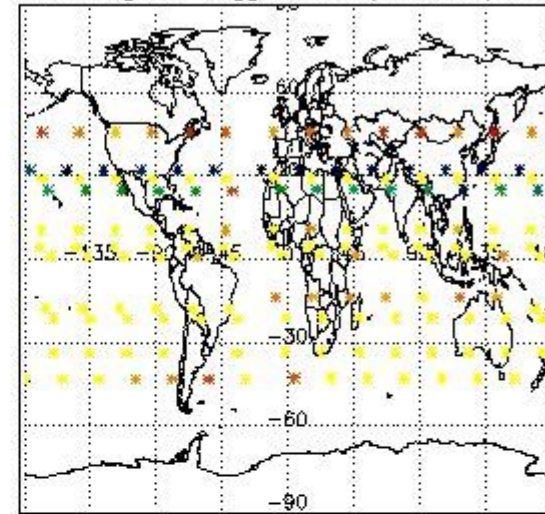


3.2 Plot quality information per product (world map)

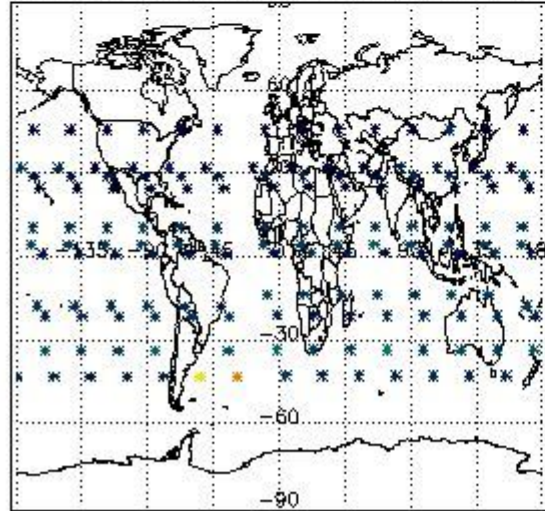
Percentage of flagged data per O3 profile



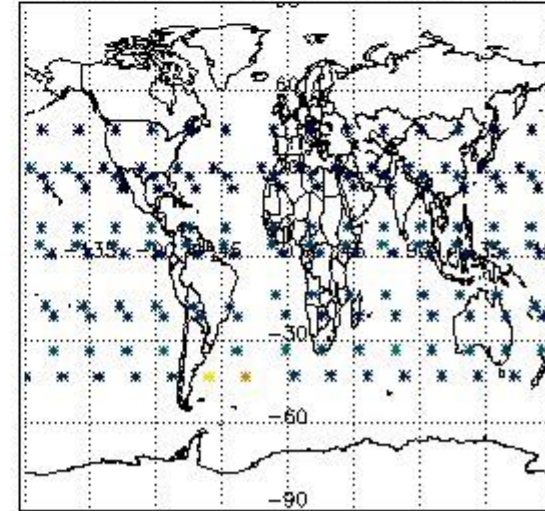
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

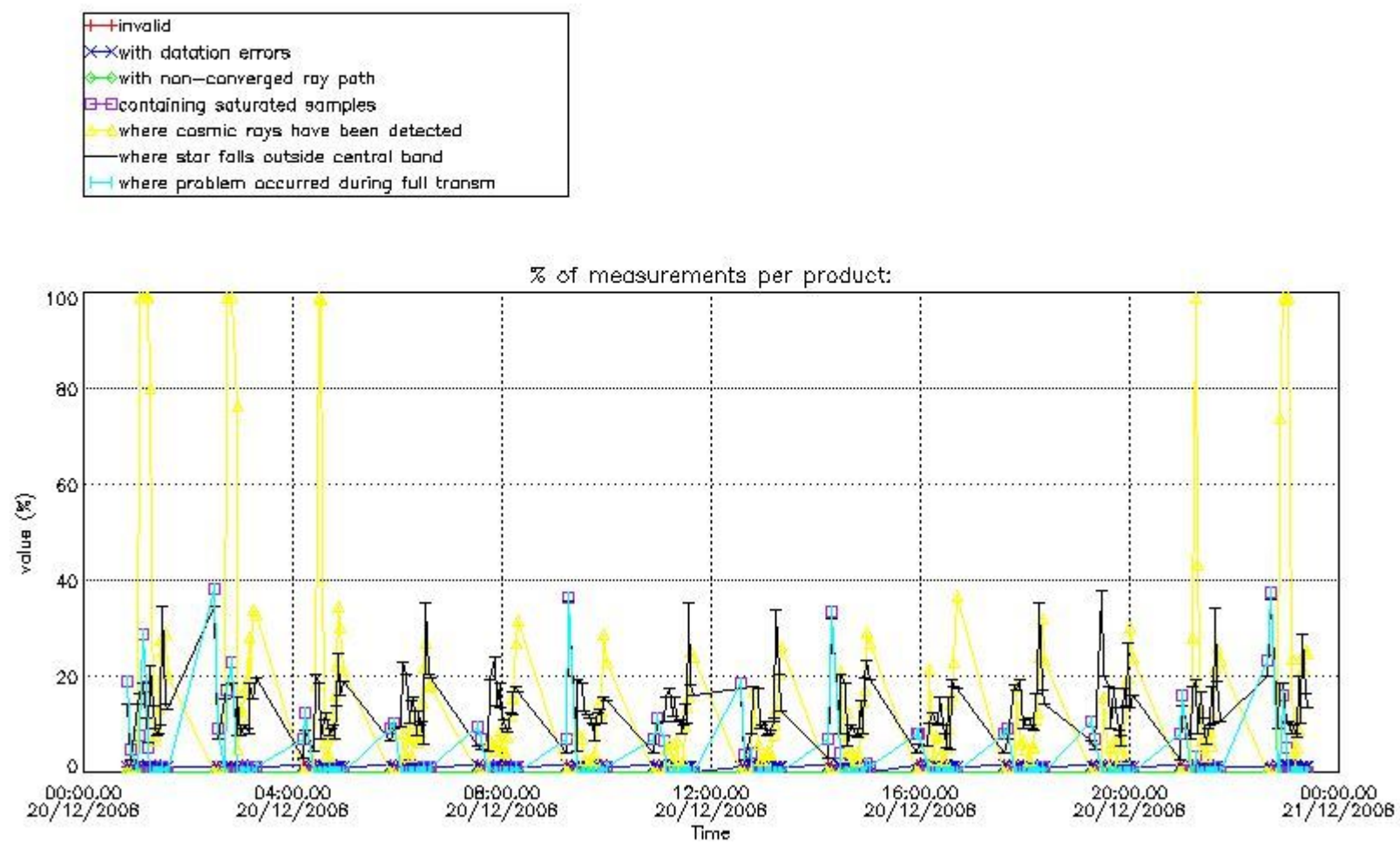


4. Level 1 quality information per product

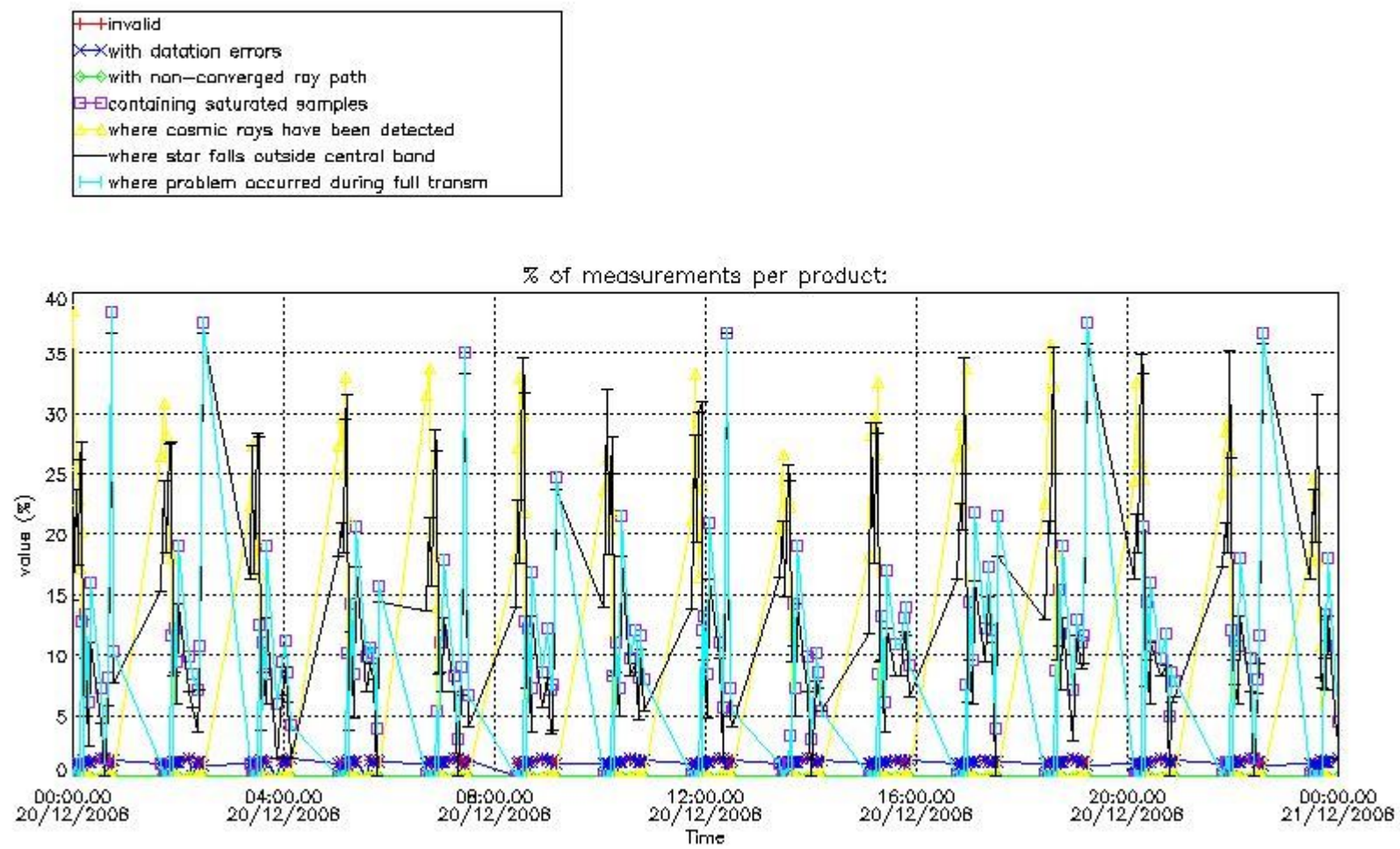
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

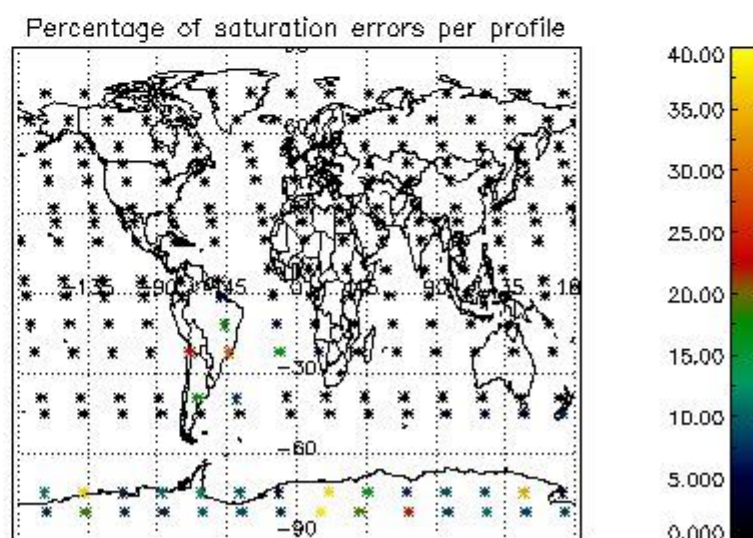
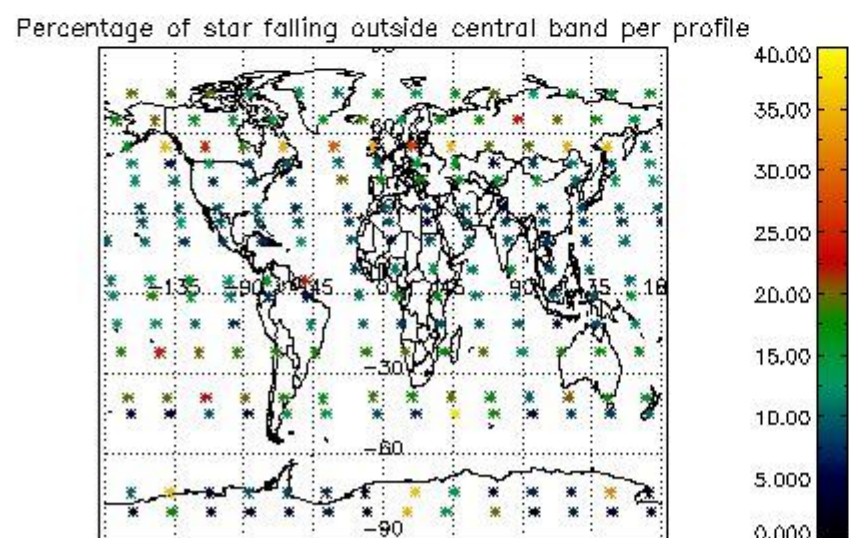
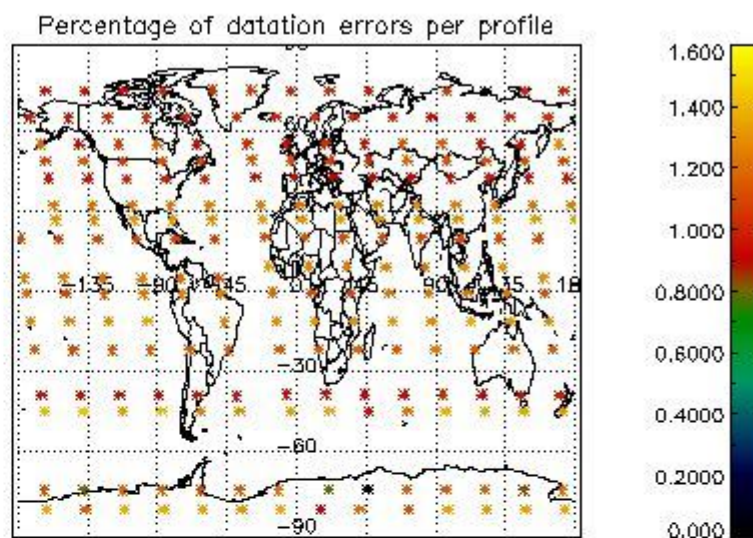
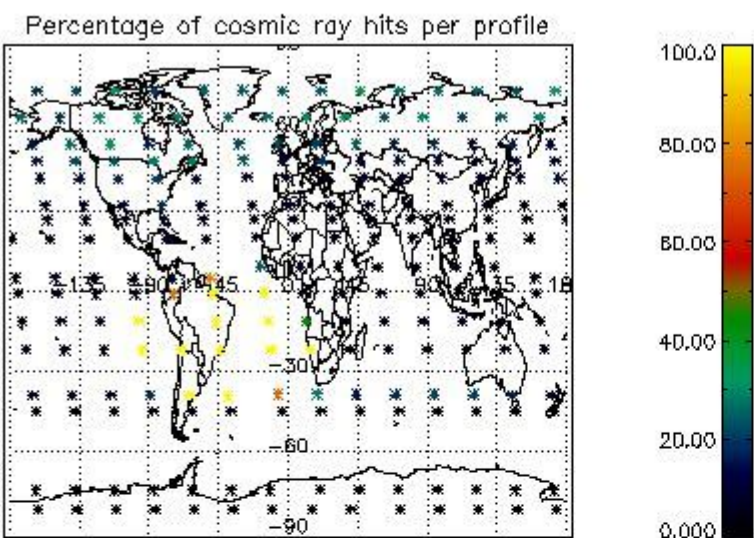


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

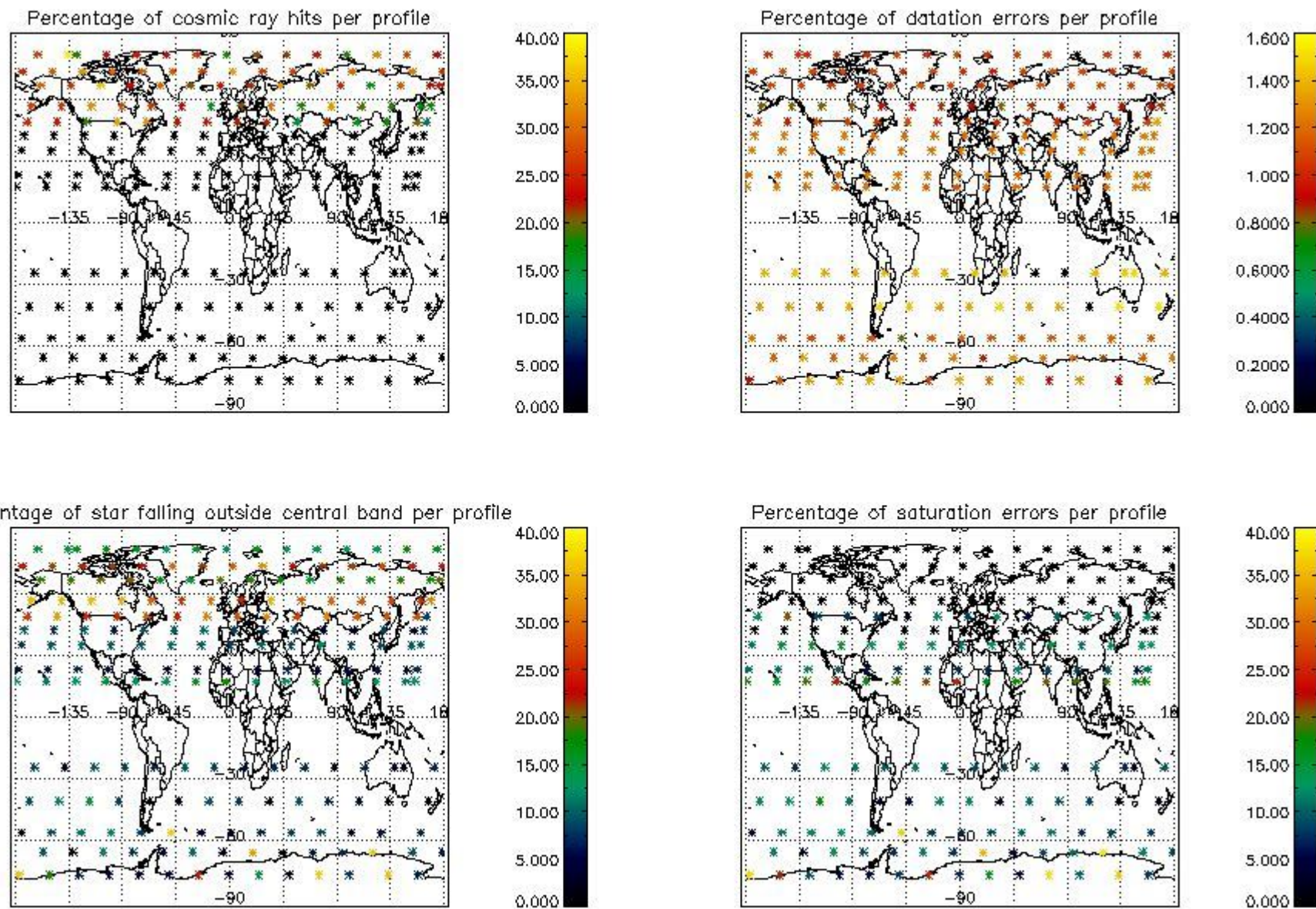


4.2 Plot quality information per product coming from level 1b processing (world map)

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

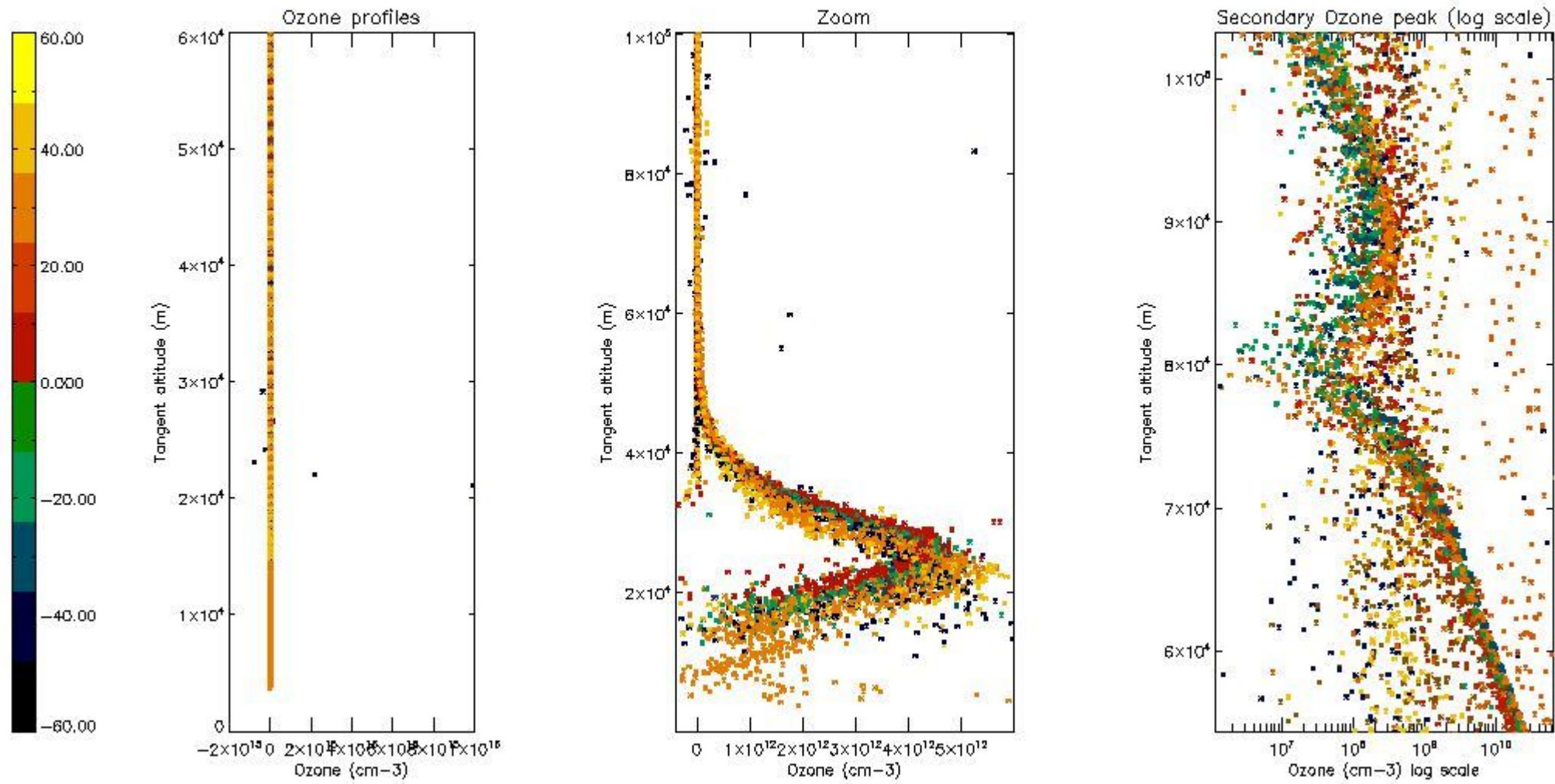
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	16

STD < 10	12
STD < 5	7

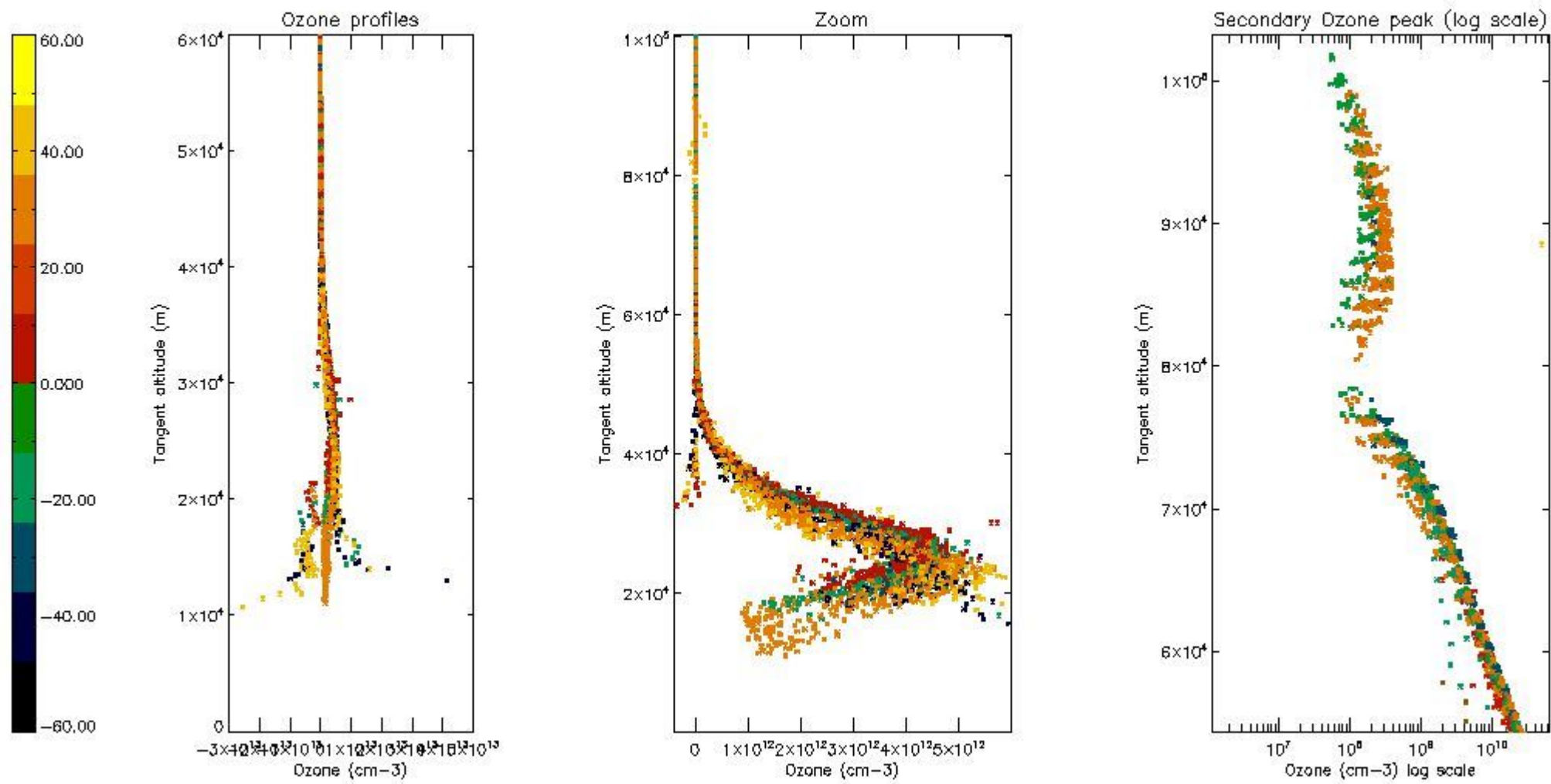
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



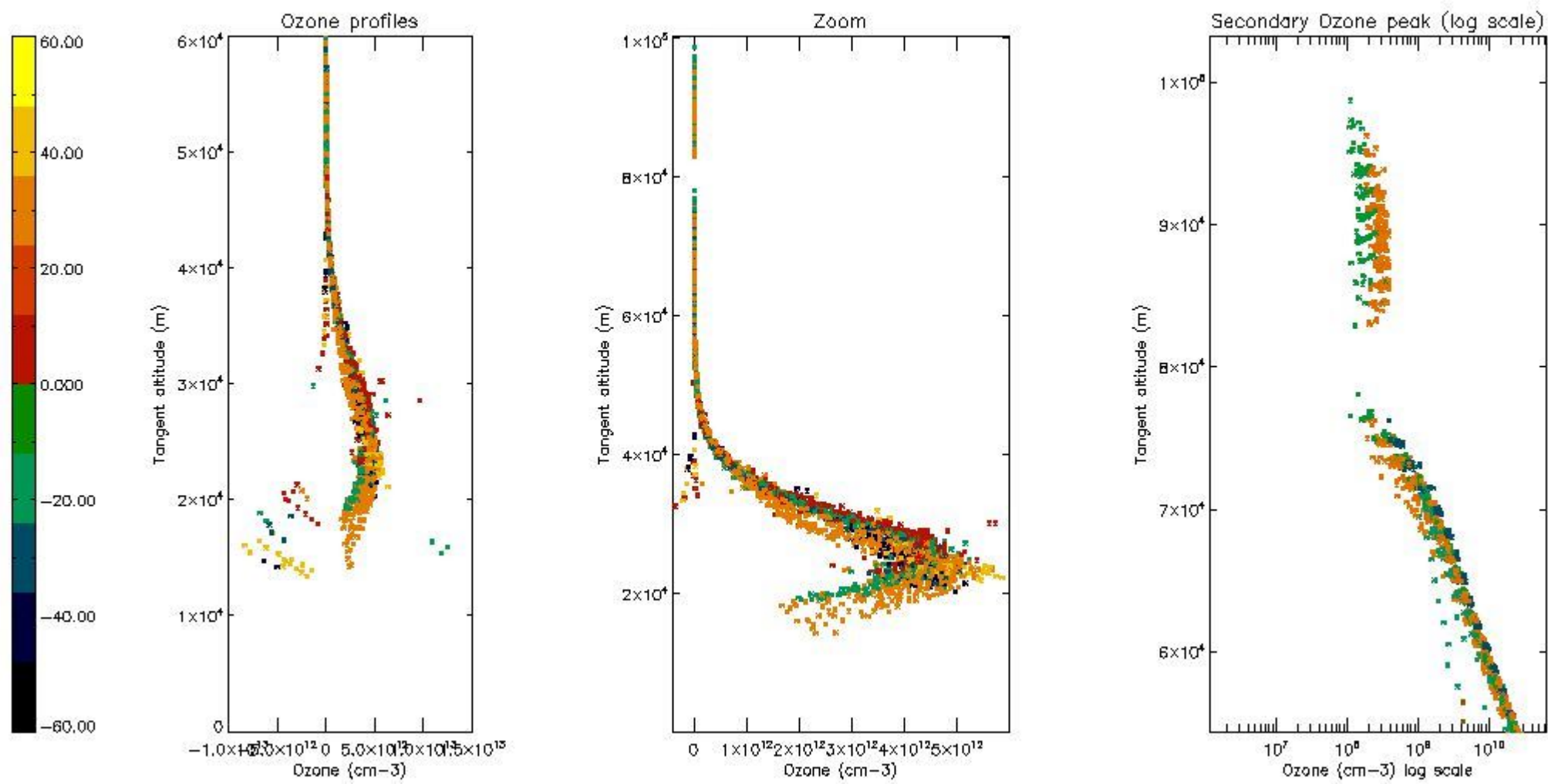
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



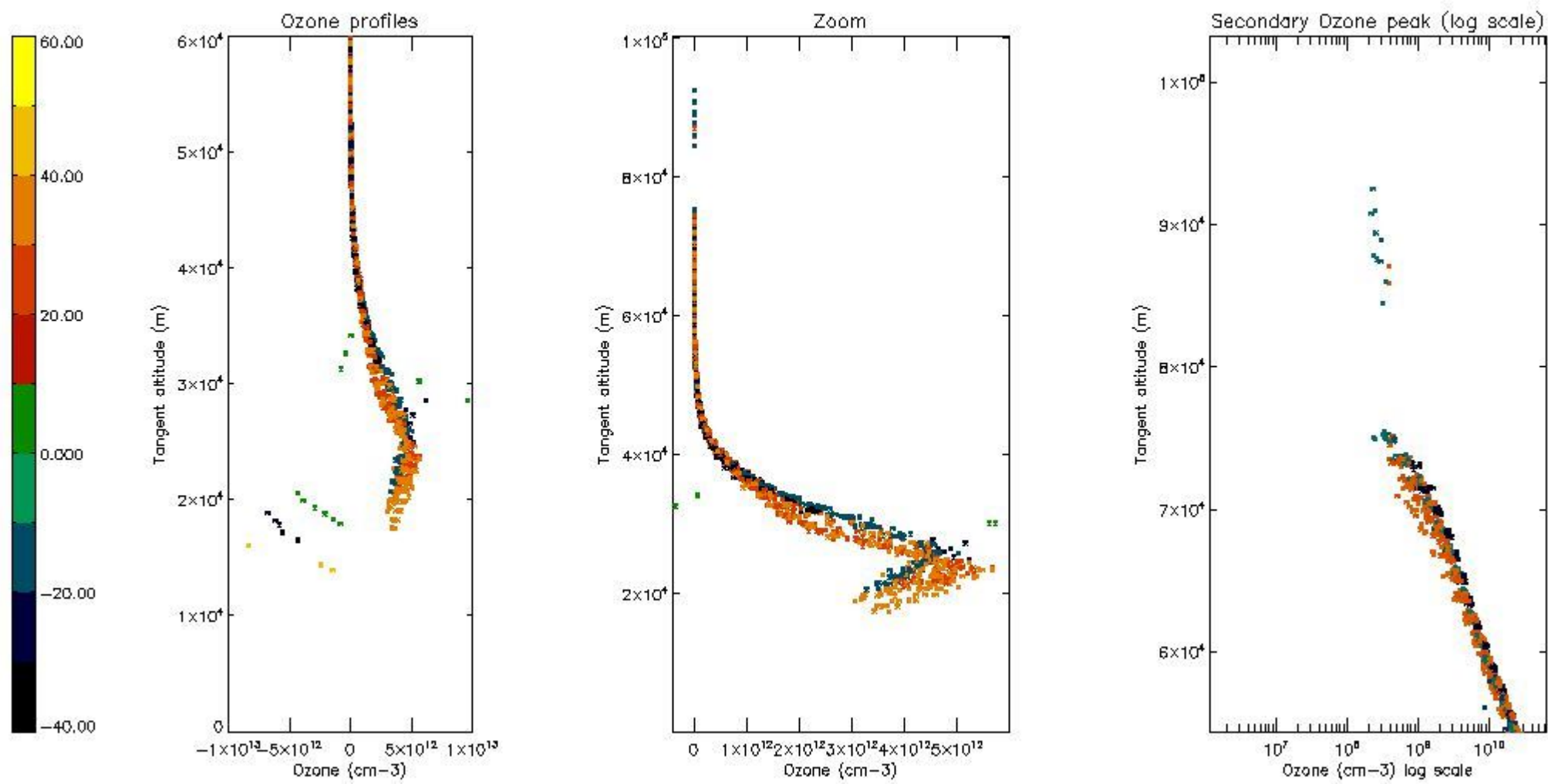
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



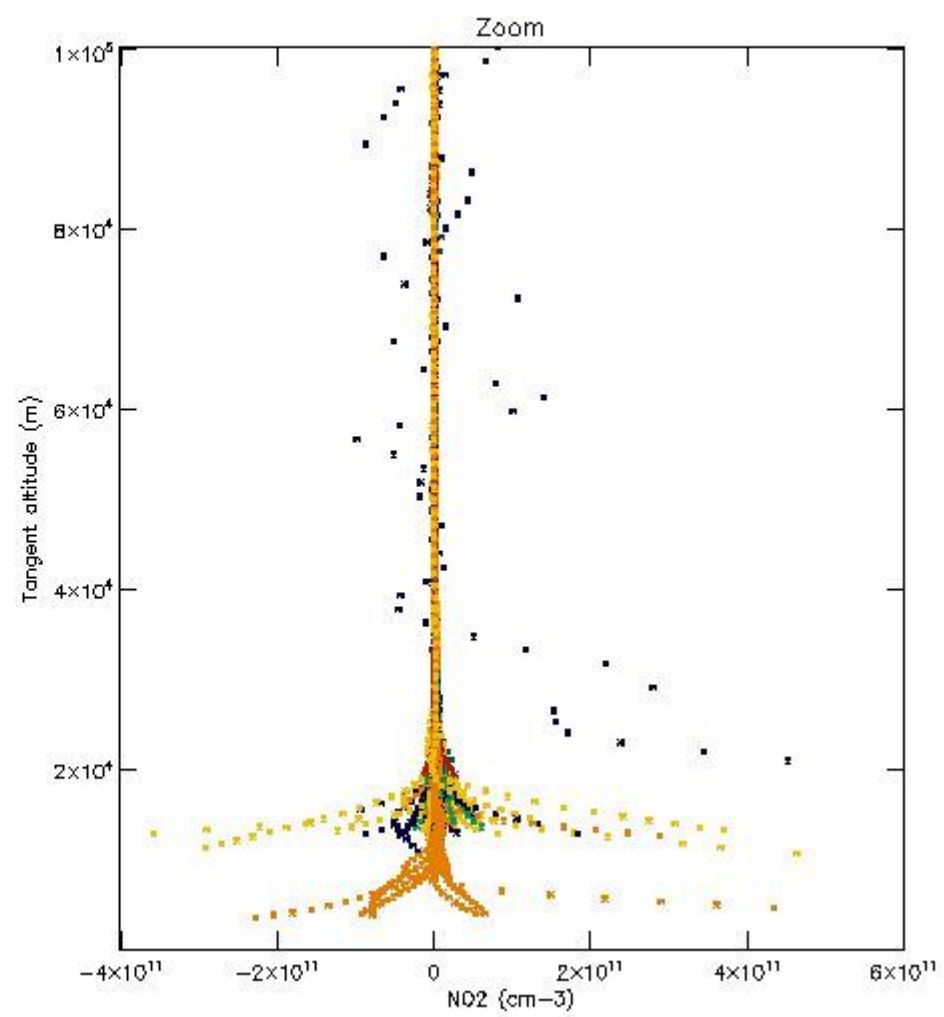
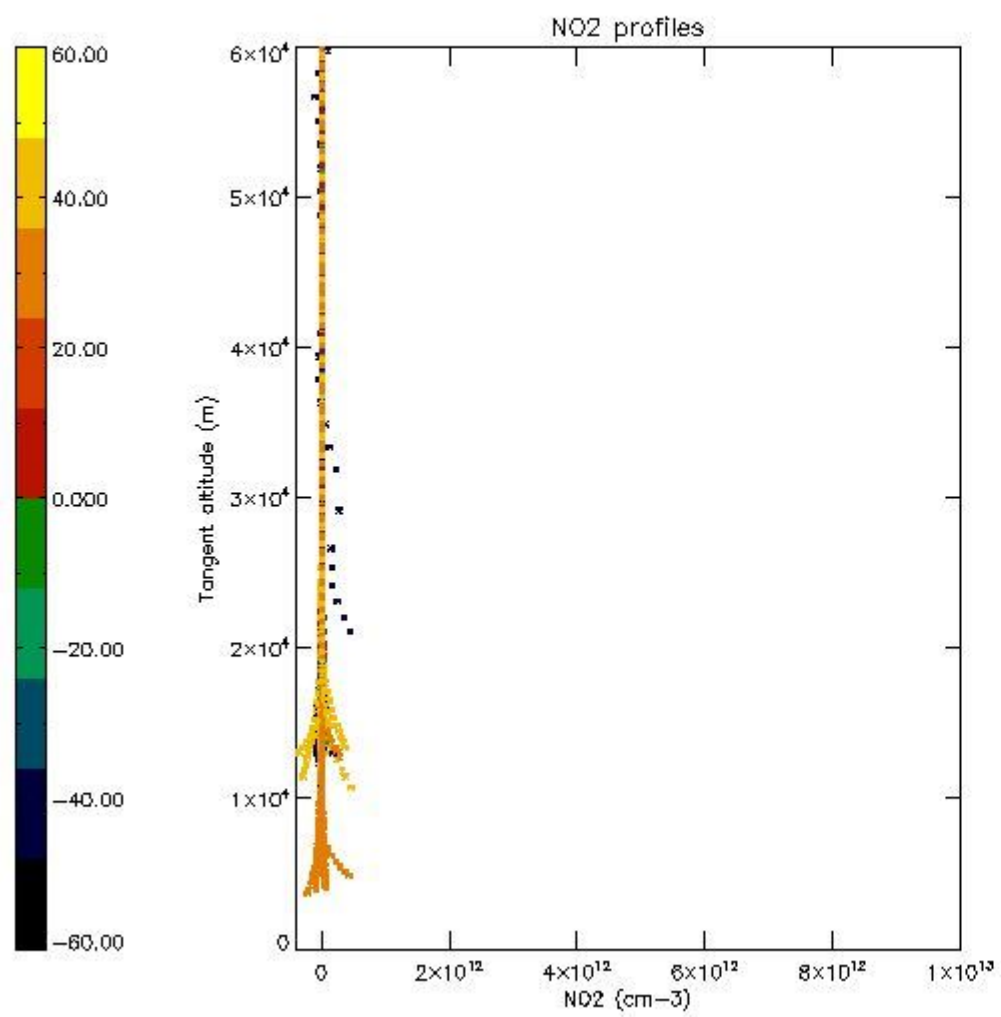
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



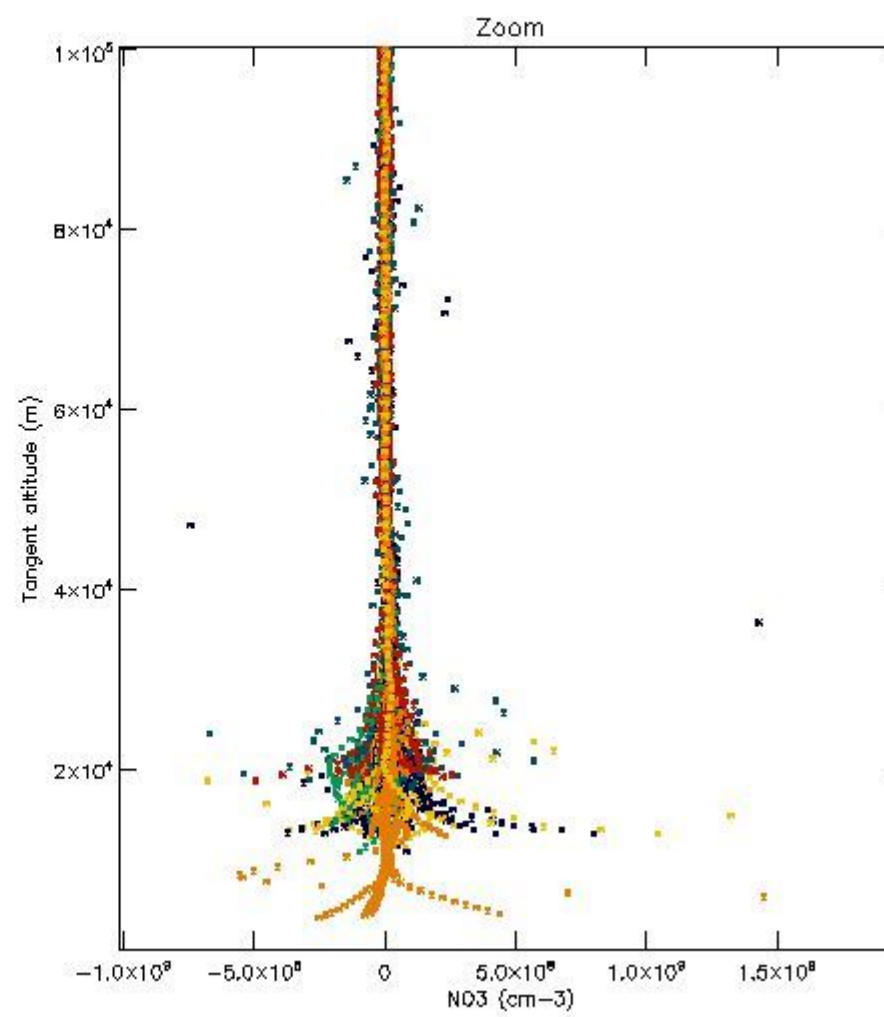
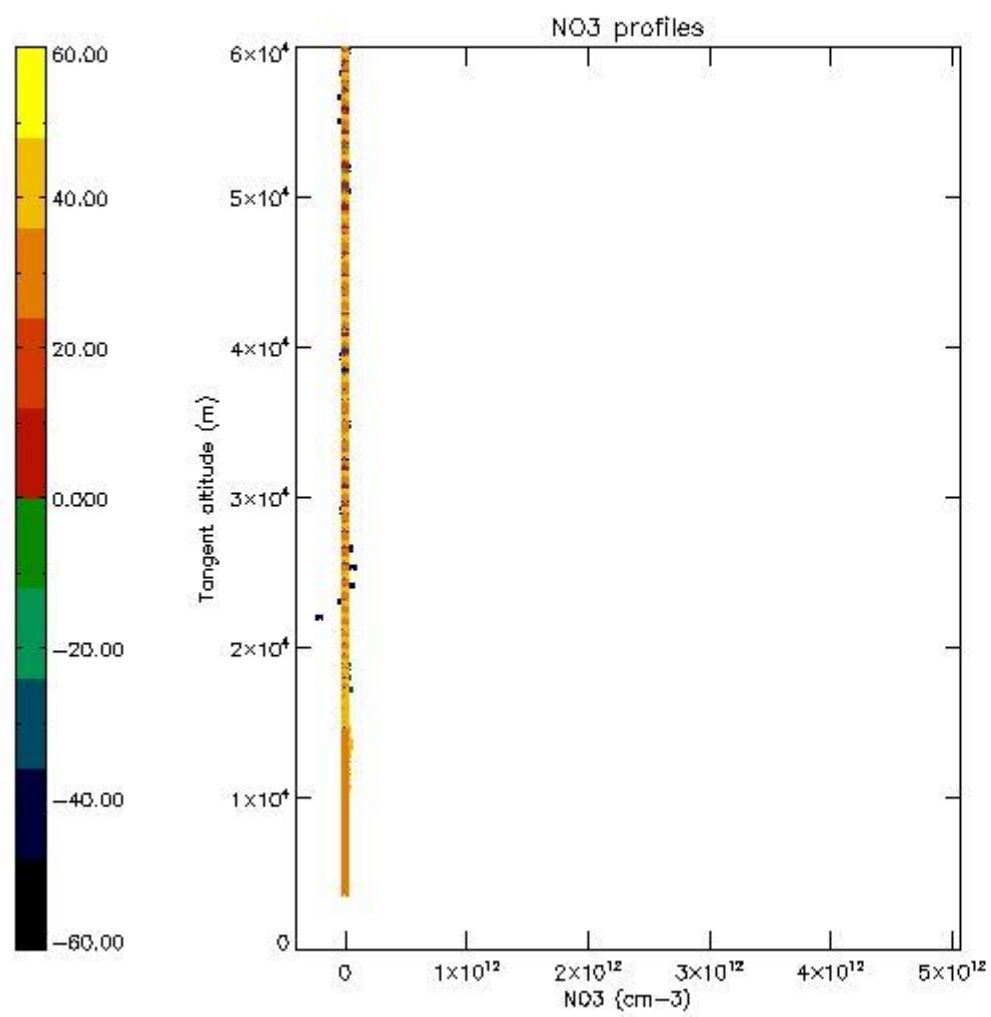
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



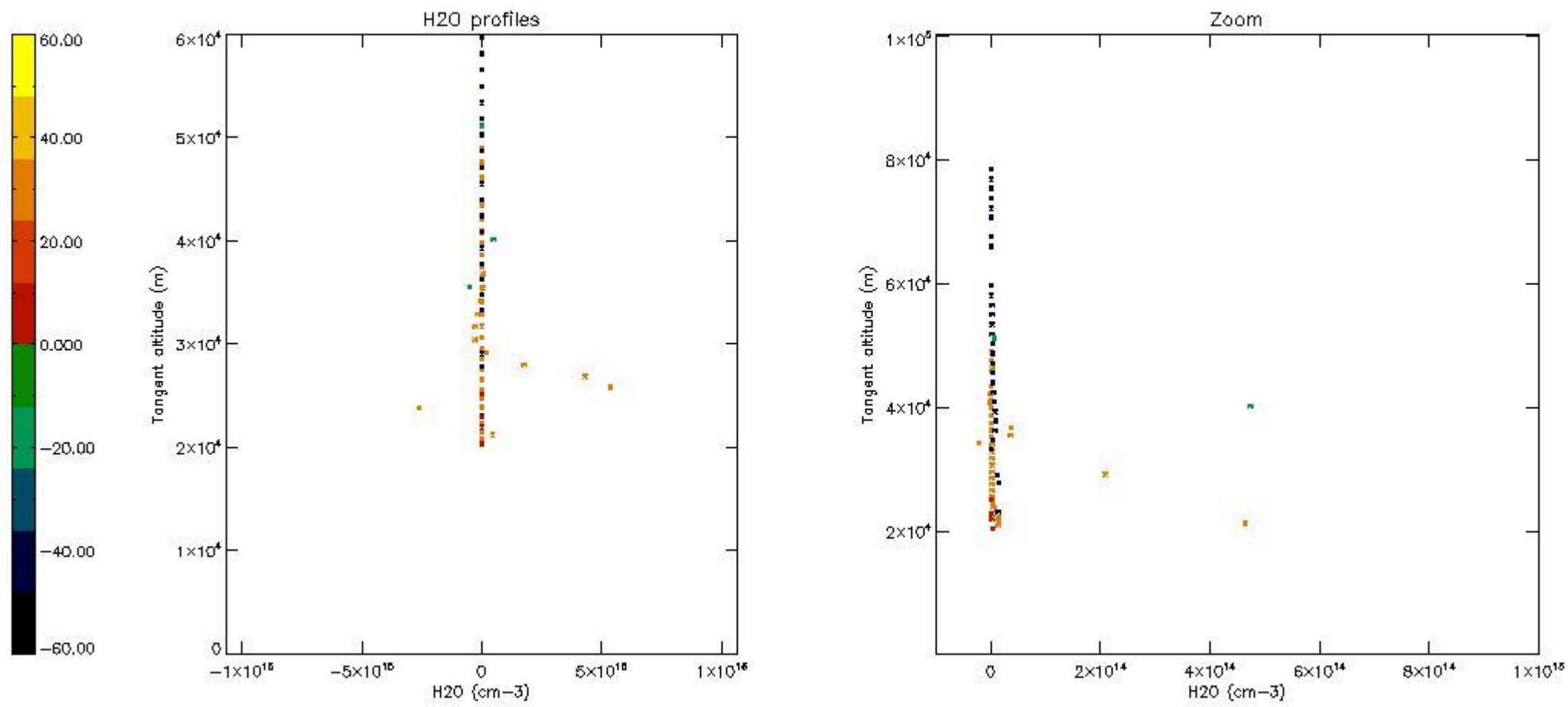
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

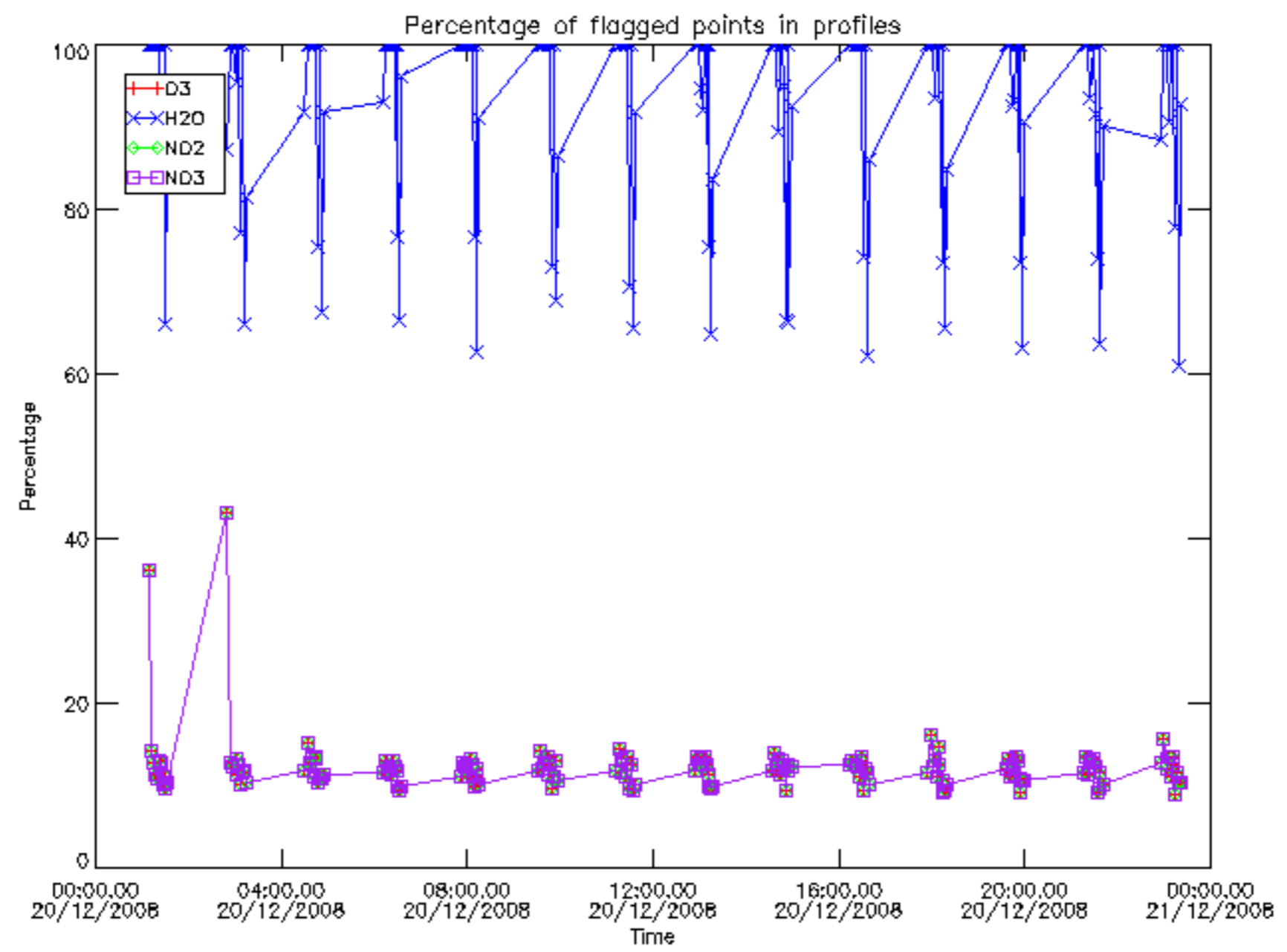
The colorbar represents the latitude.



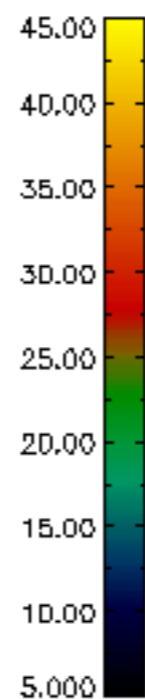
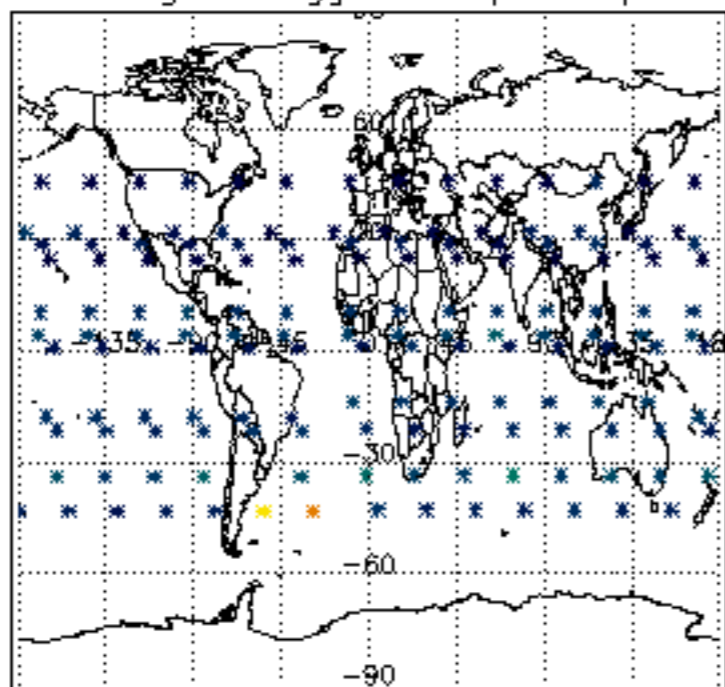
6. Auxiliary Data Files used for the production reported in section 2

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.

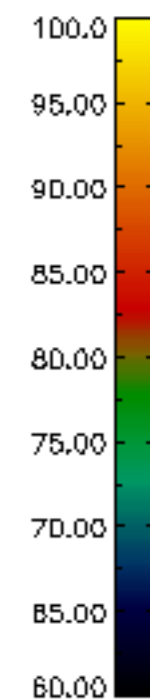
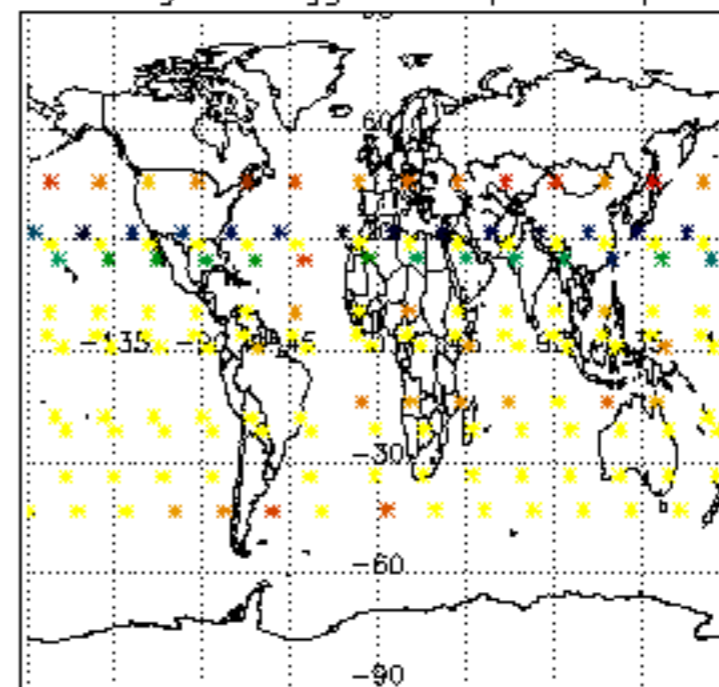
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	20-DEC-2008 00:00:06
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-DEC-2008 00:00:06
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-DEC-2008 00:00:06



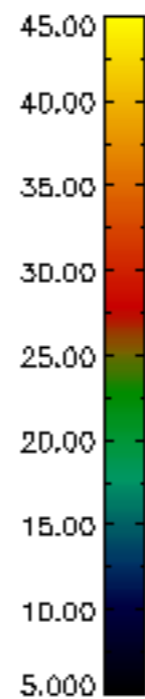
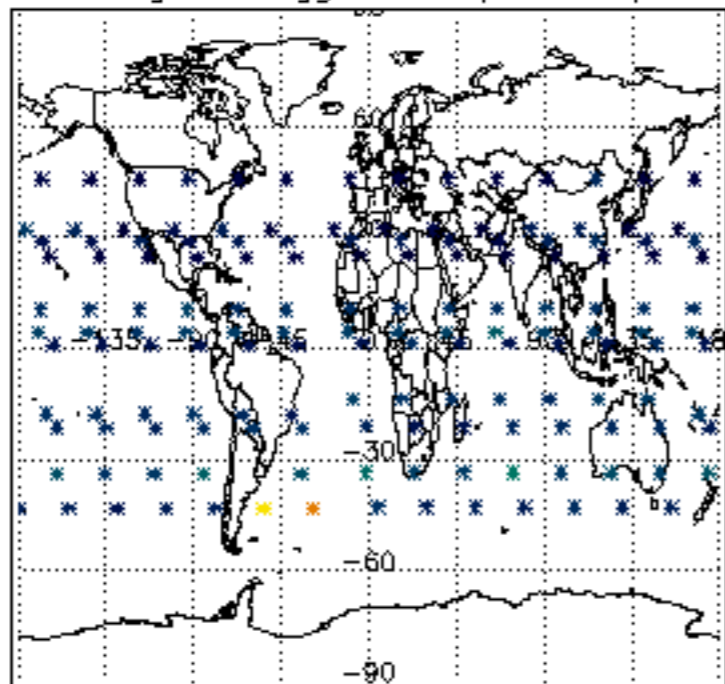
Percentage of flagged data per D3 profile



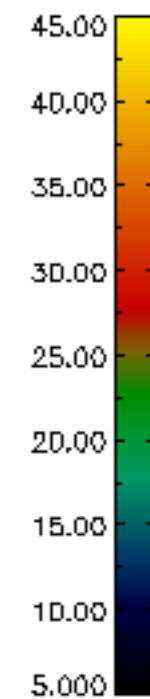
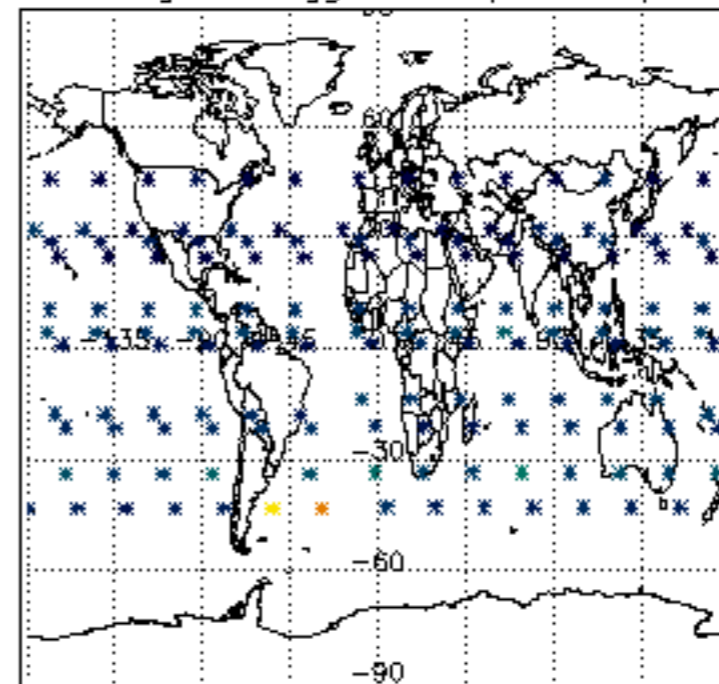
Percentage of flagged data per H2O profile

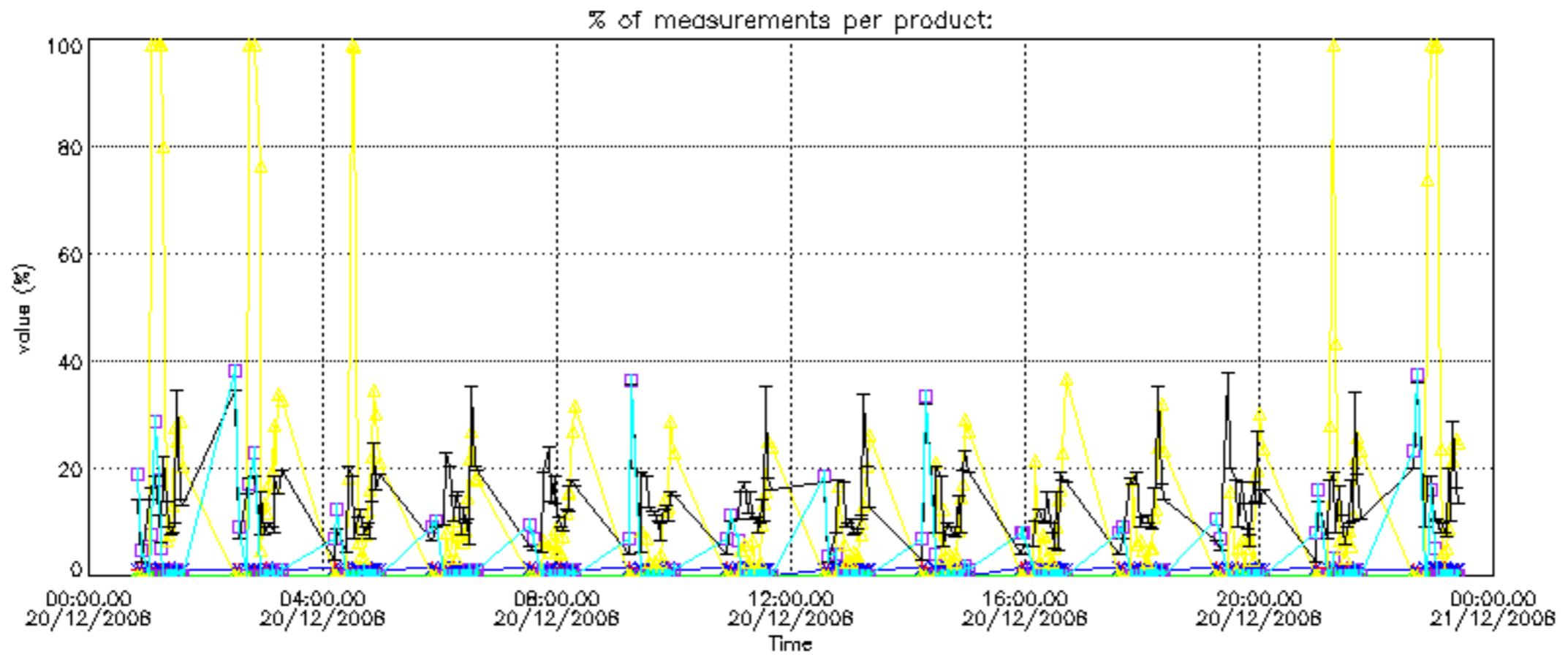


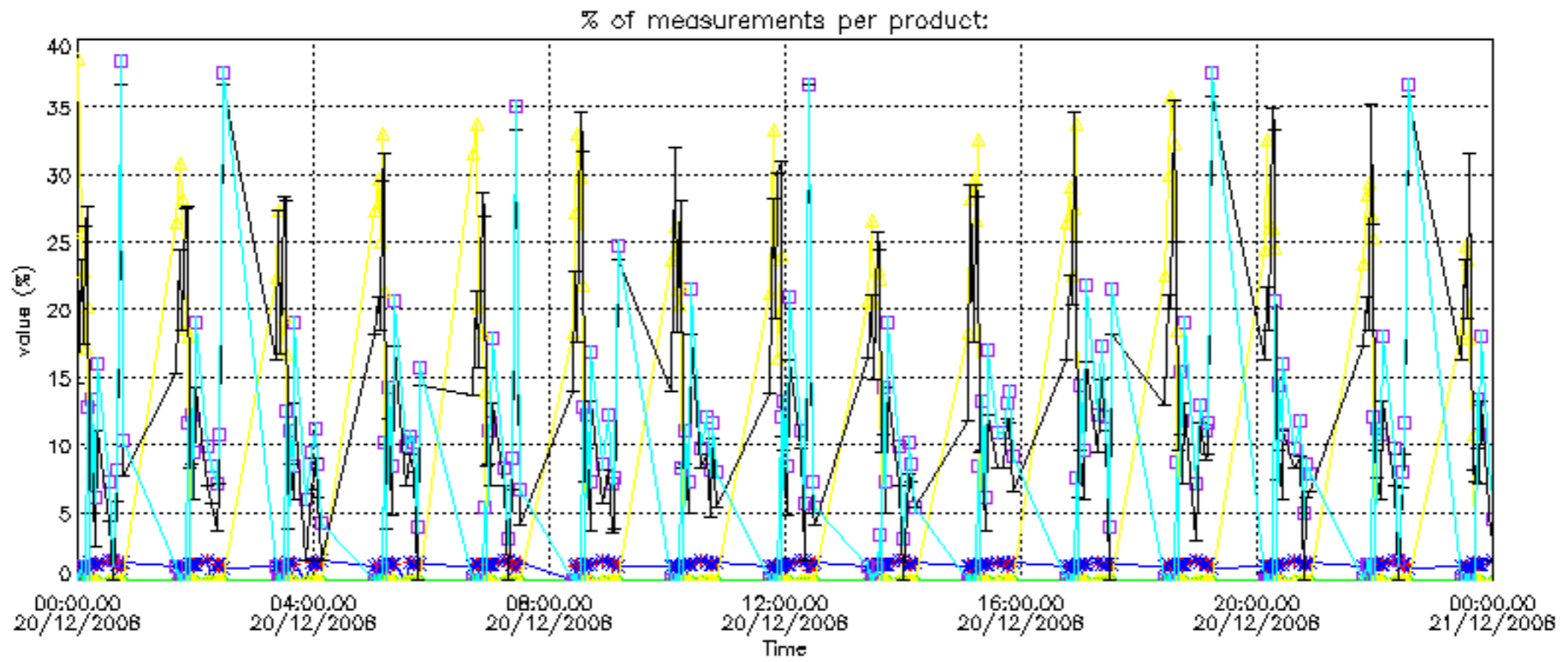
Percentage of flagged data per NO2 profile



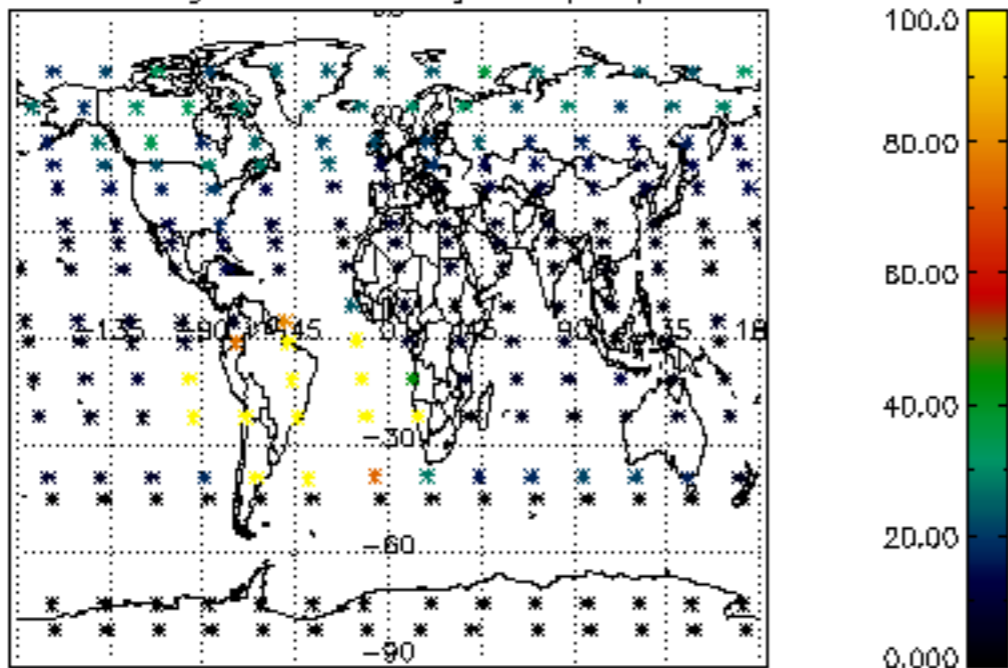
Percentage of flagged data per NO3 profile



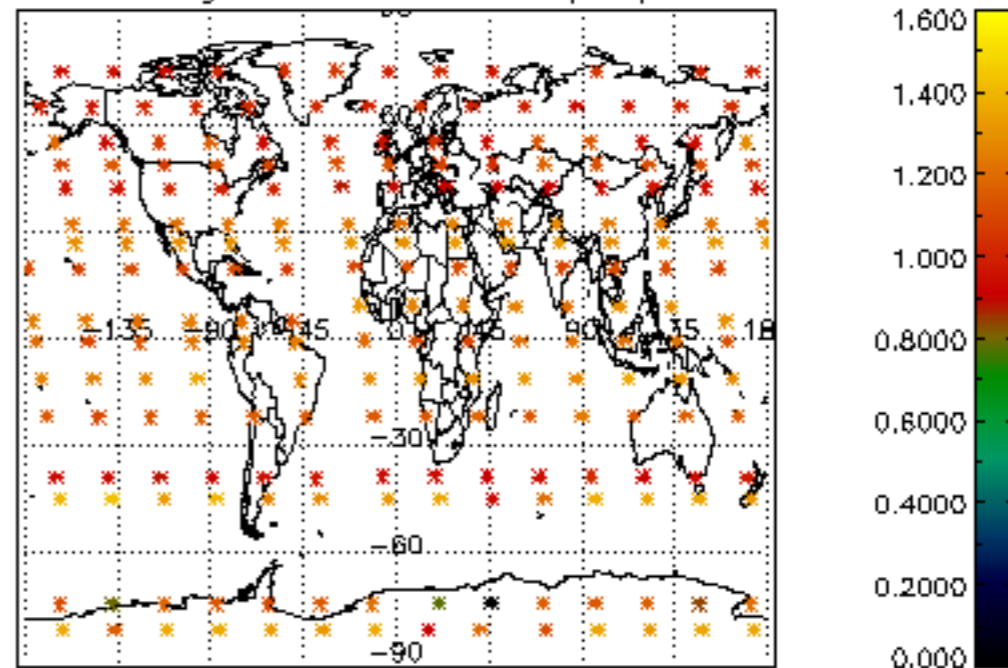




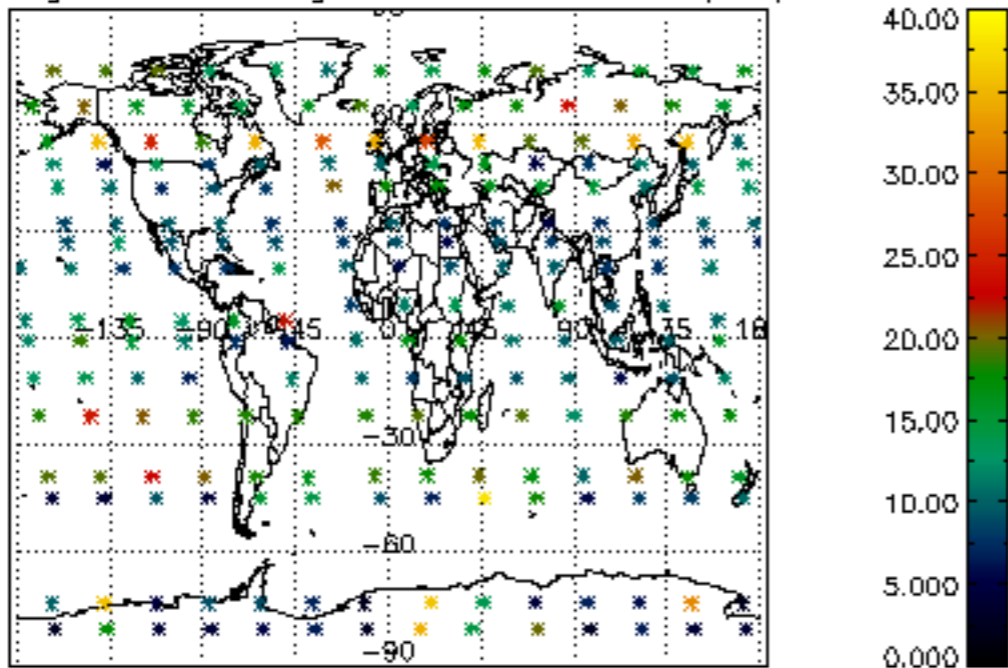
Percentage of cosmic ray hits per profile



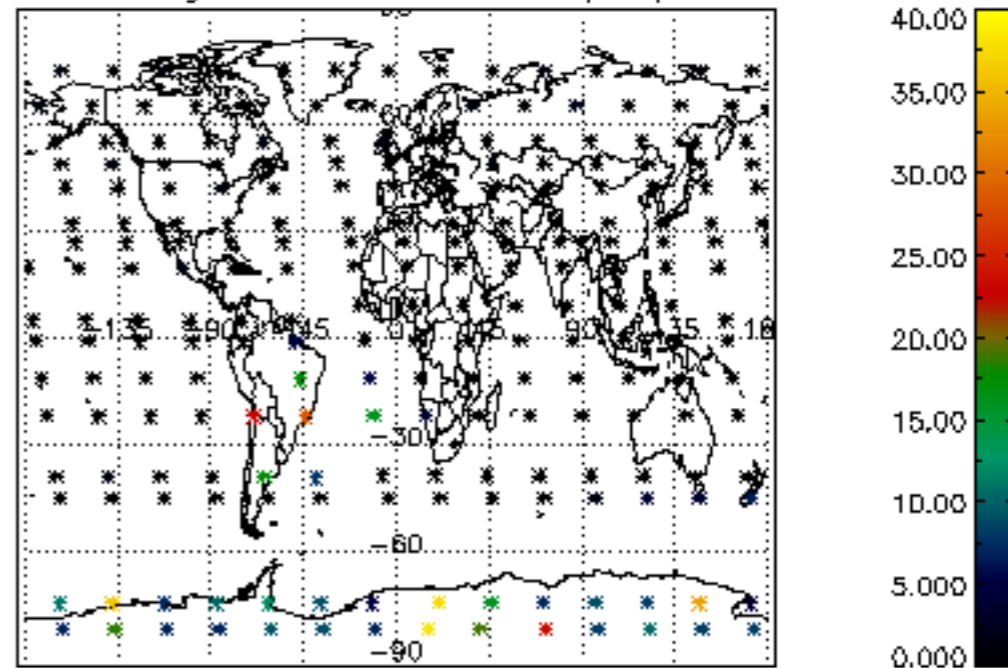
Percentage of datation errors per profile



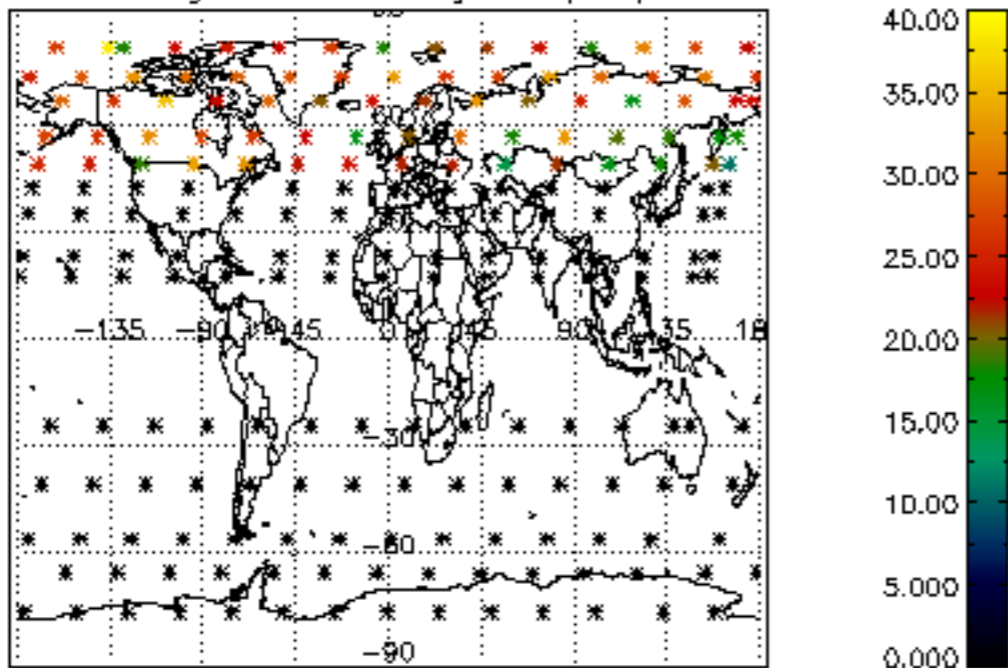
Percentage of star falling outside central band per profile



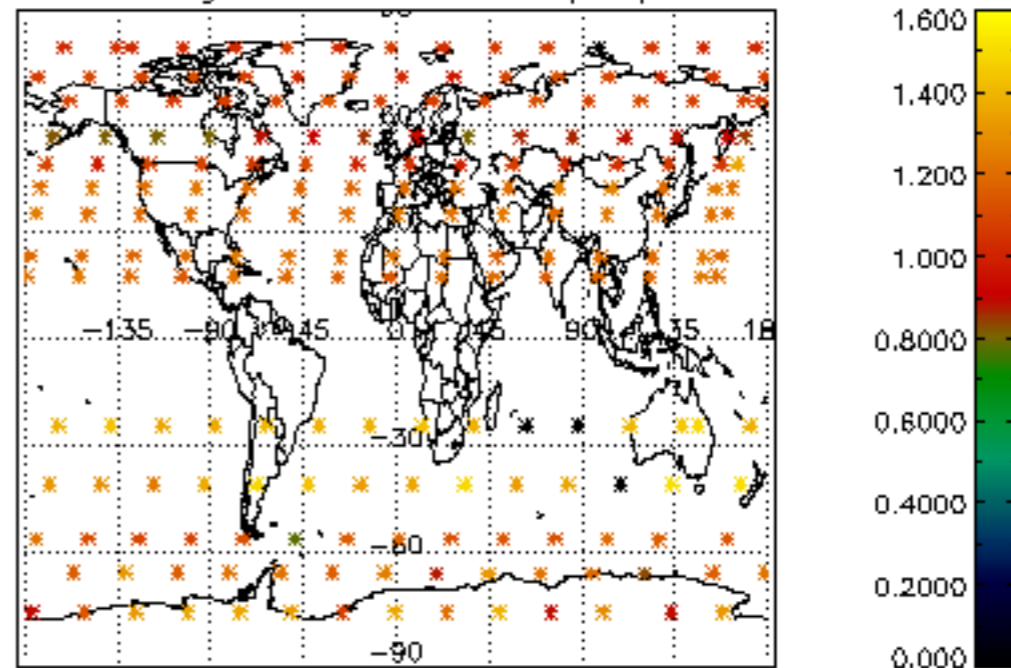
Percentage of saturation errors per profile



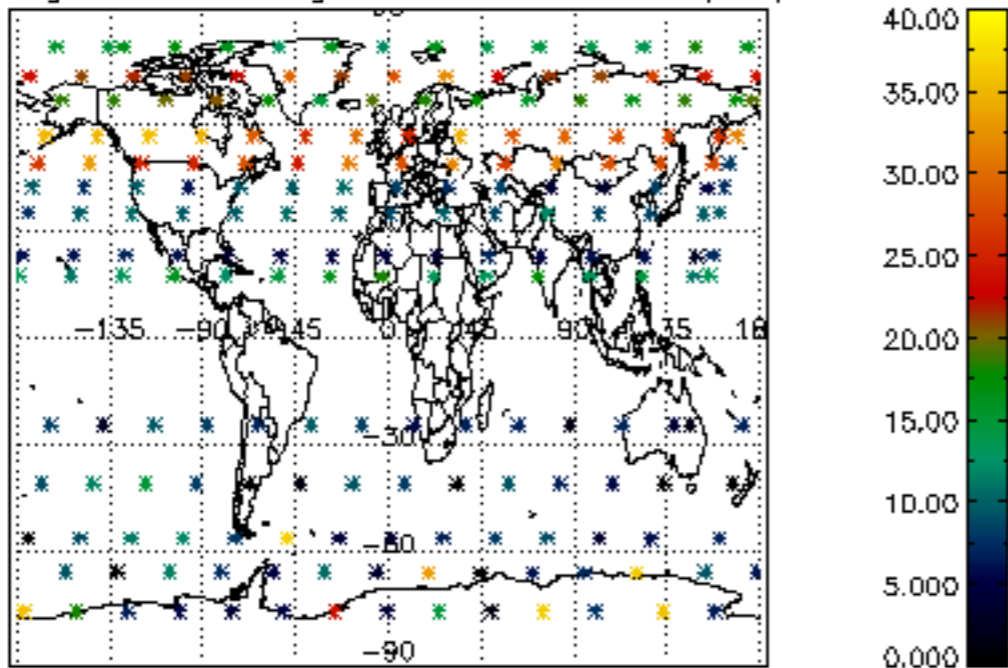
Percentage of cosmic ray hits per profile



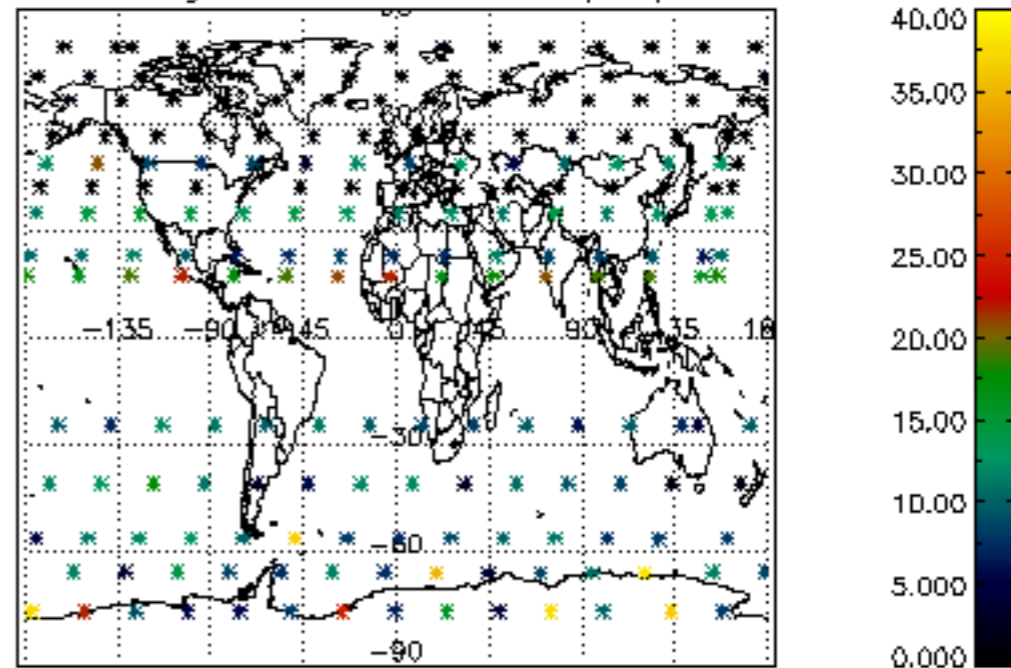
Percentage of datation errors per profile

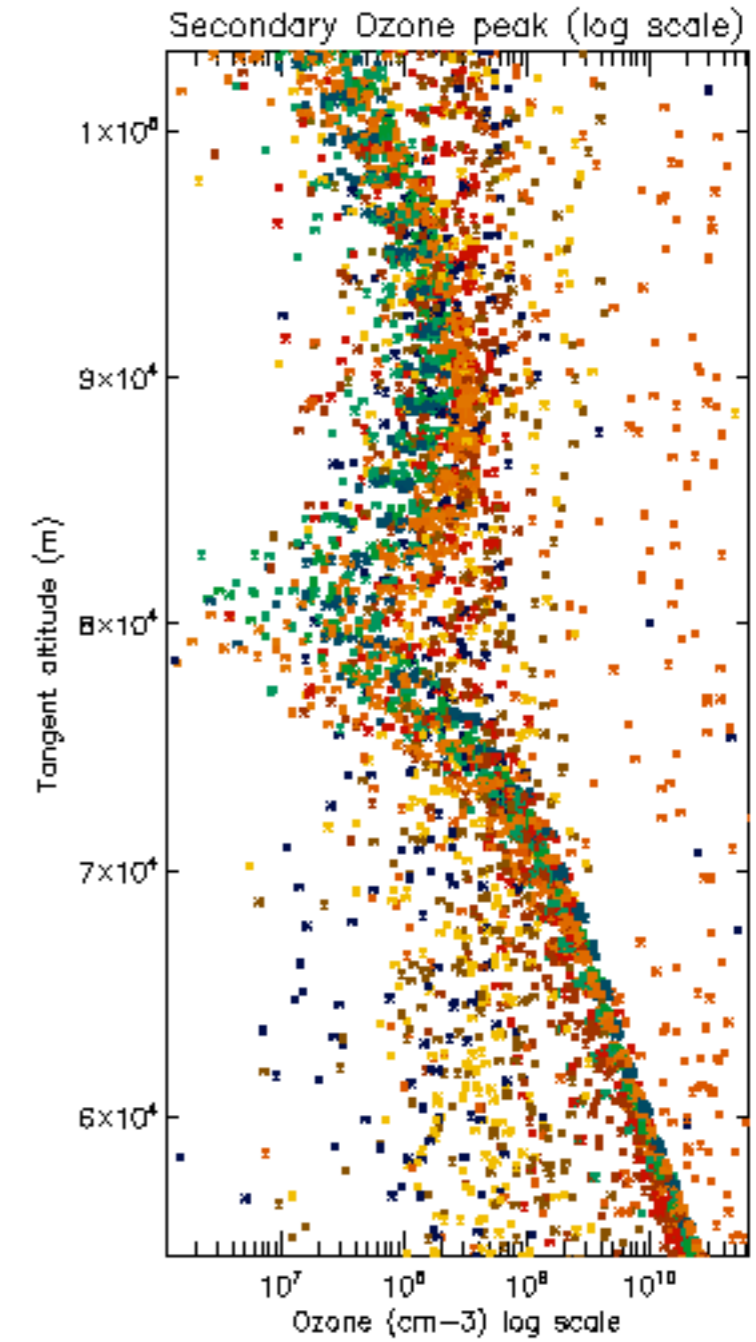
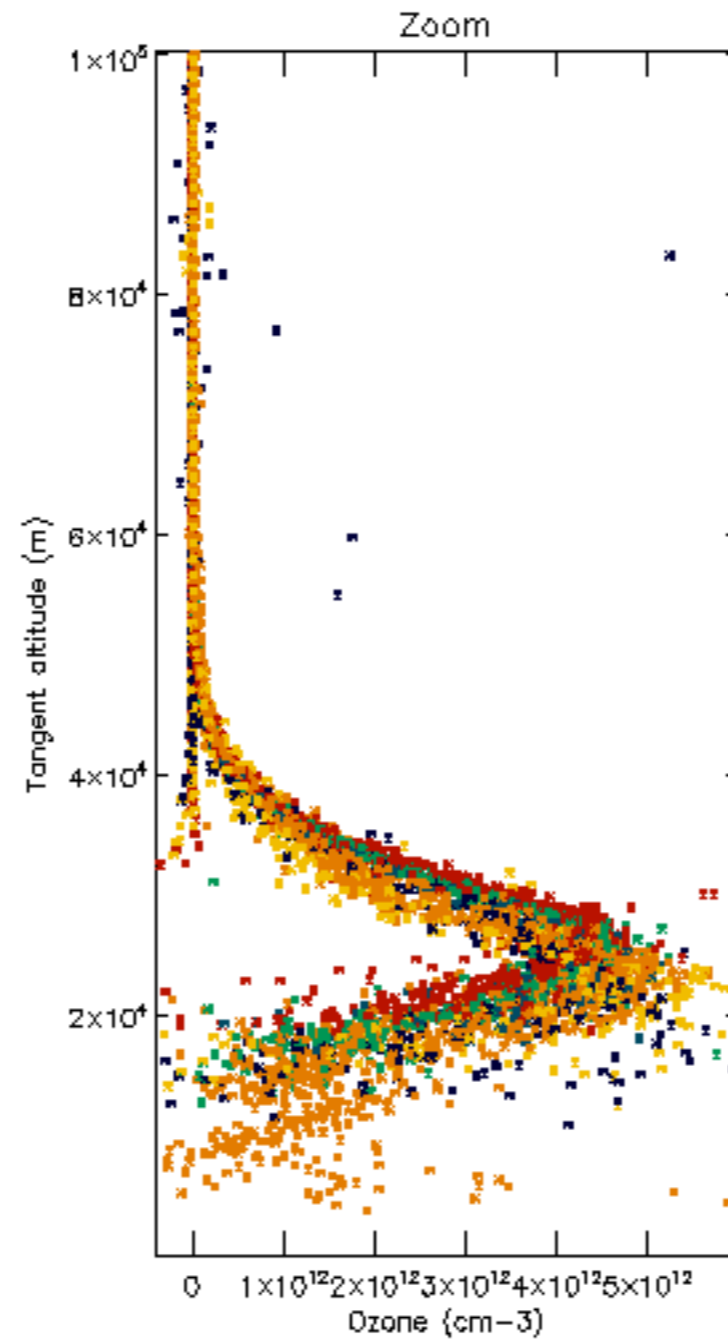
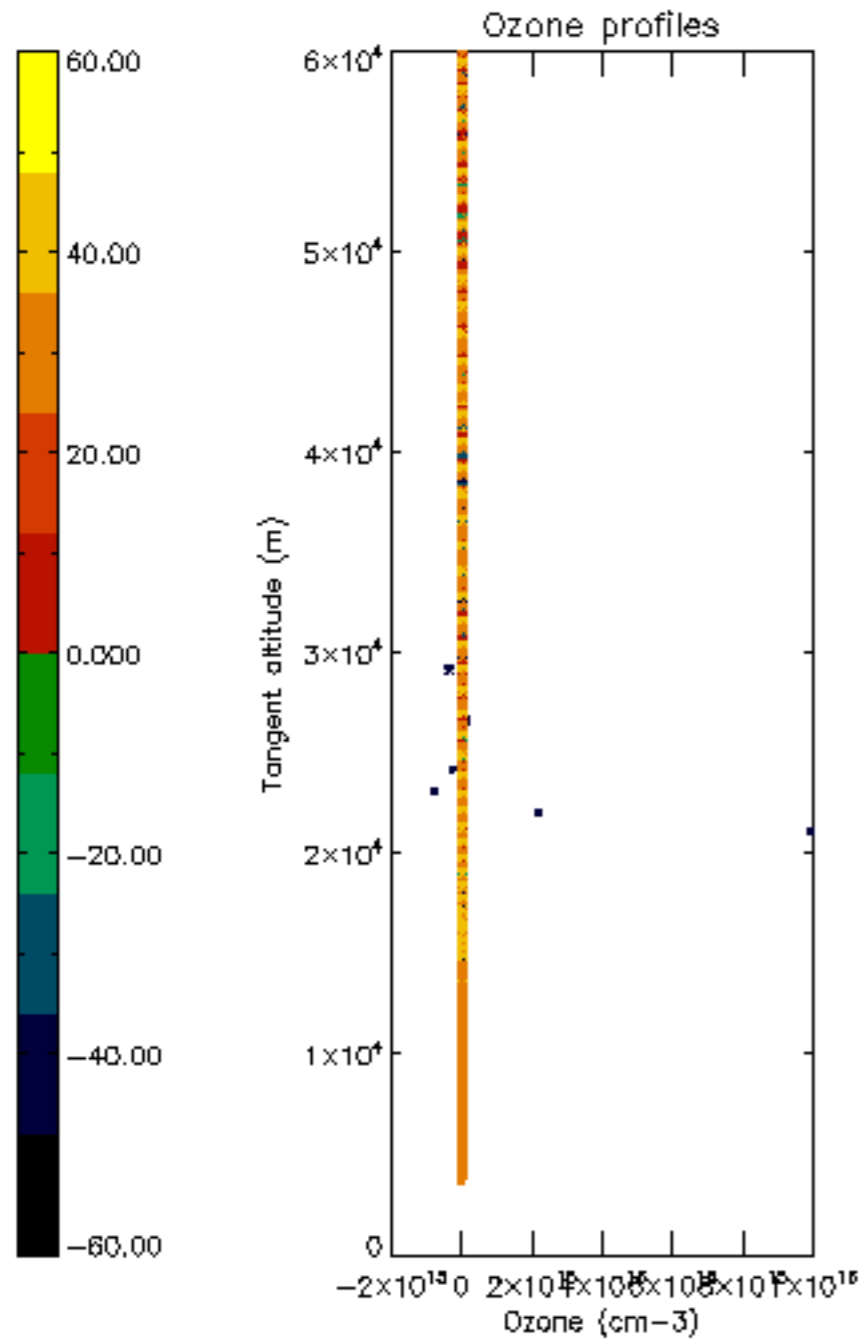


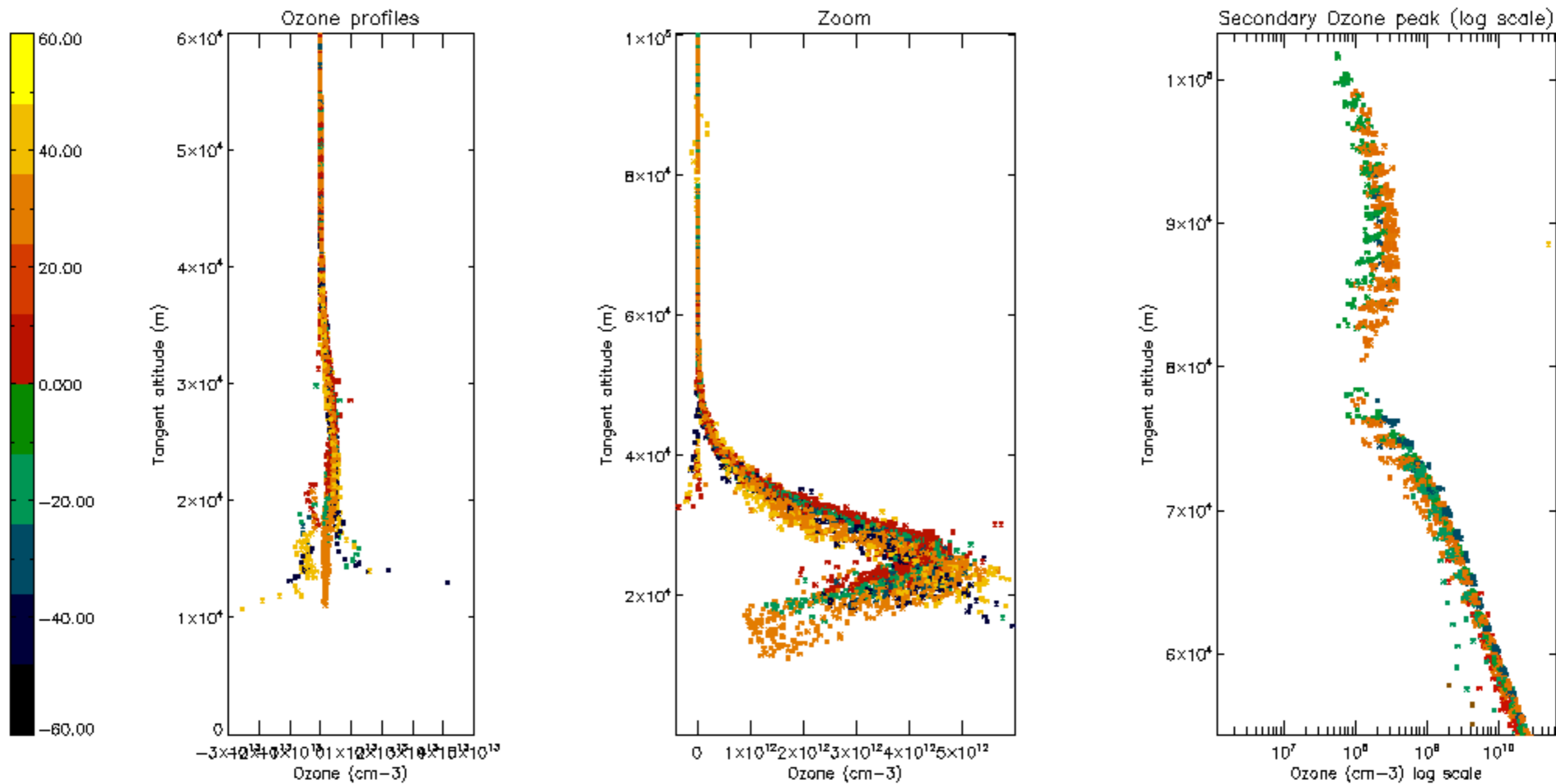
Percentage of star falling outside central band per profile

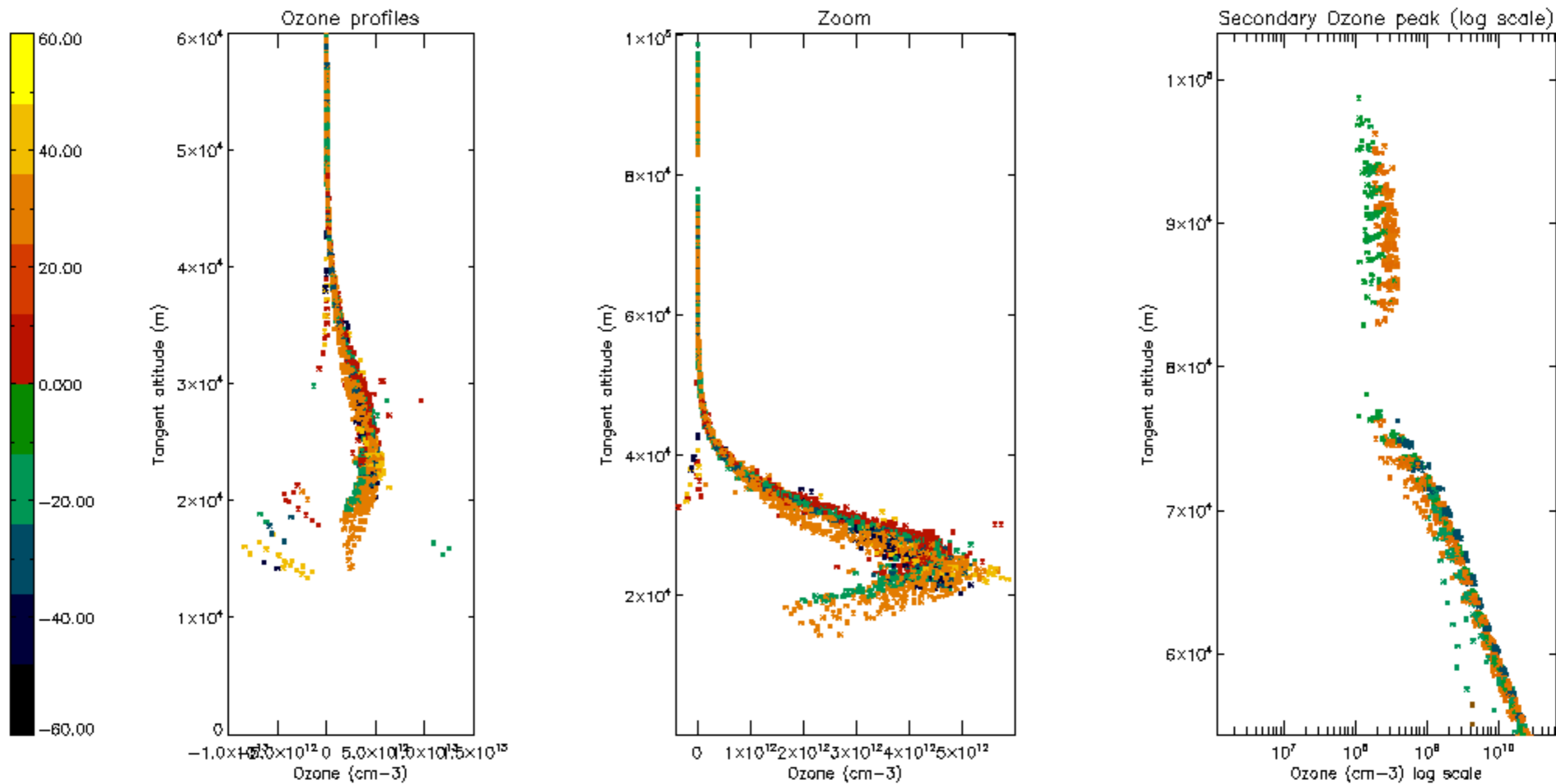


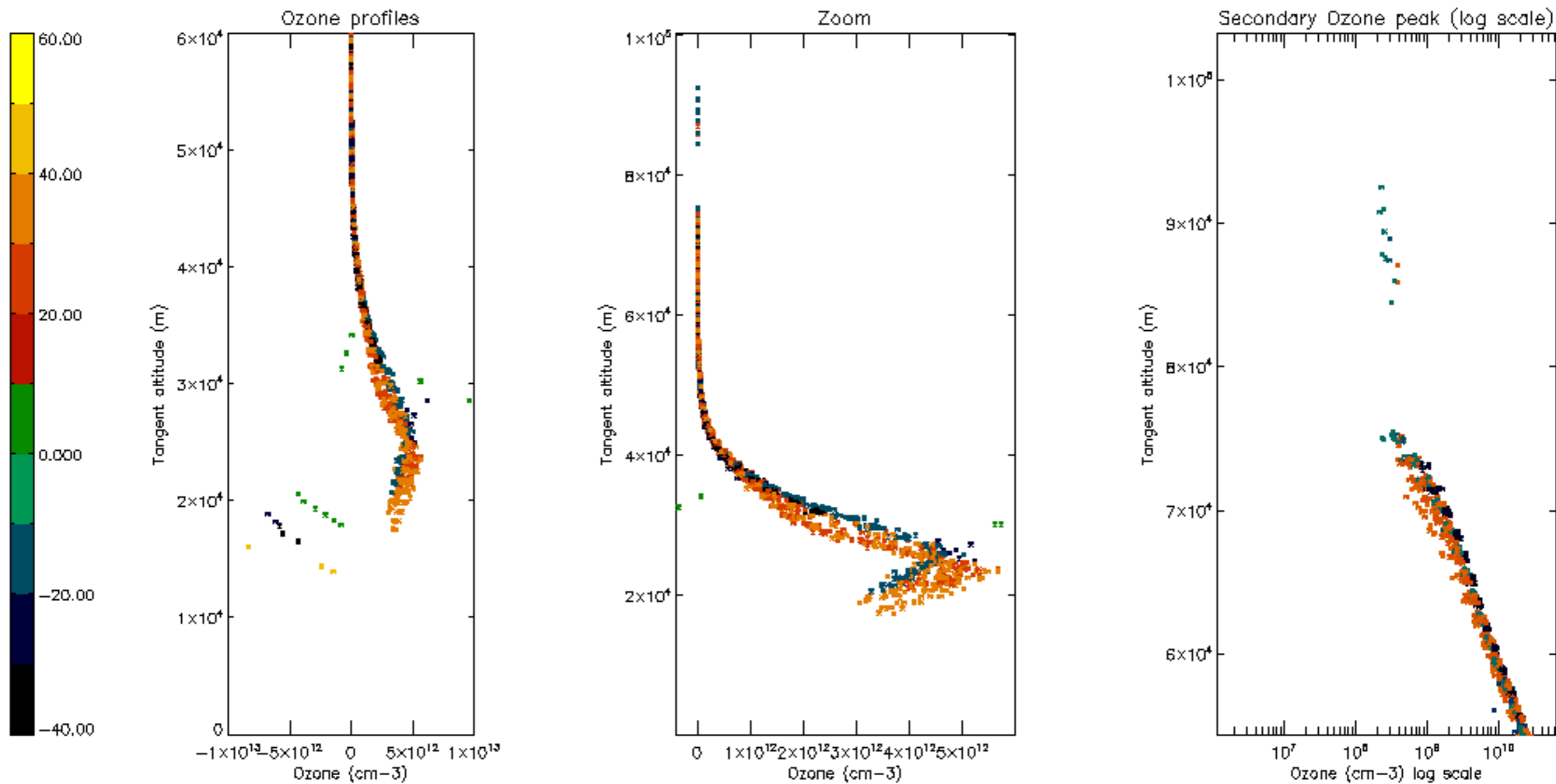
Percentage of saturation errors per profile

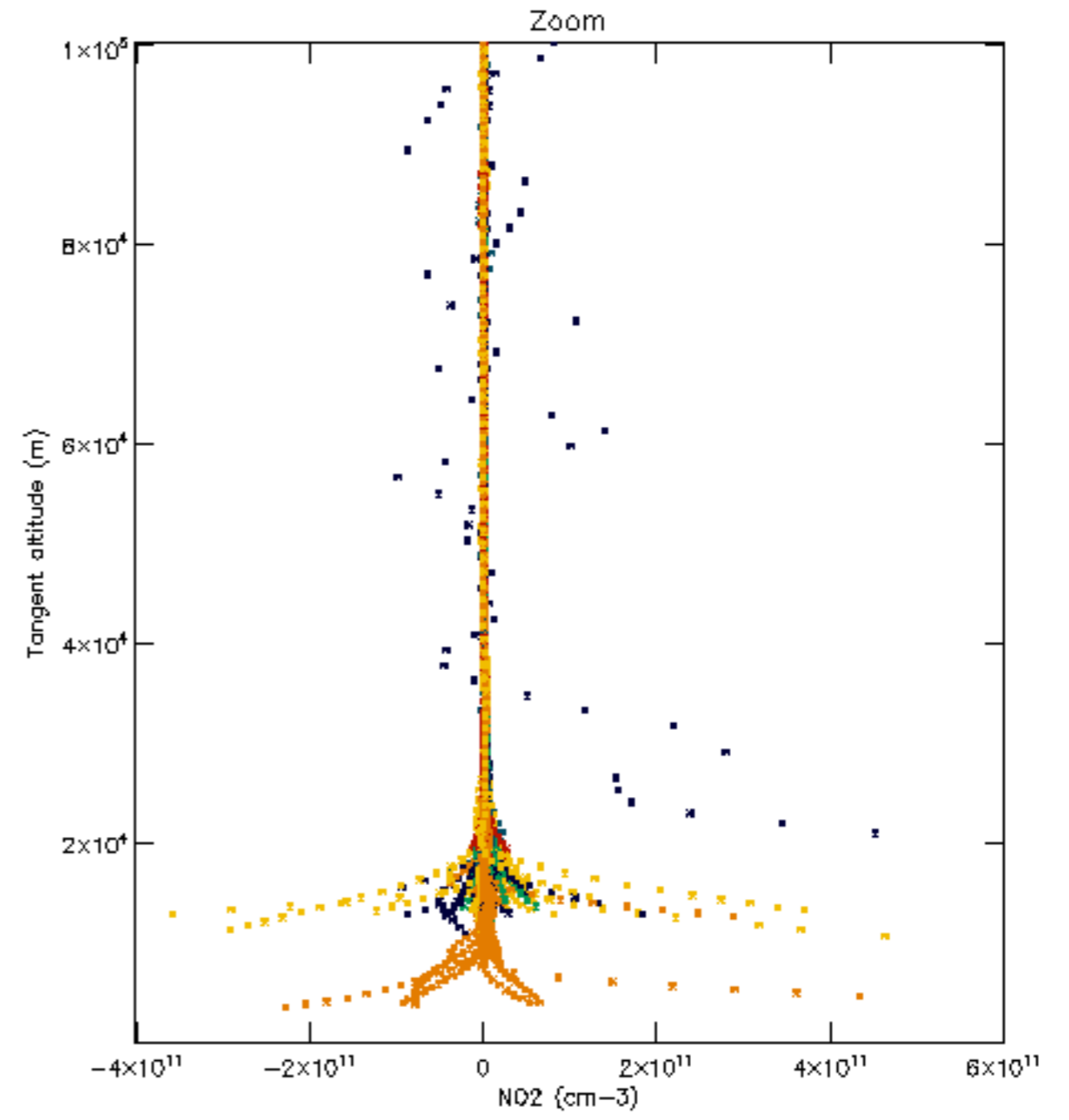
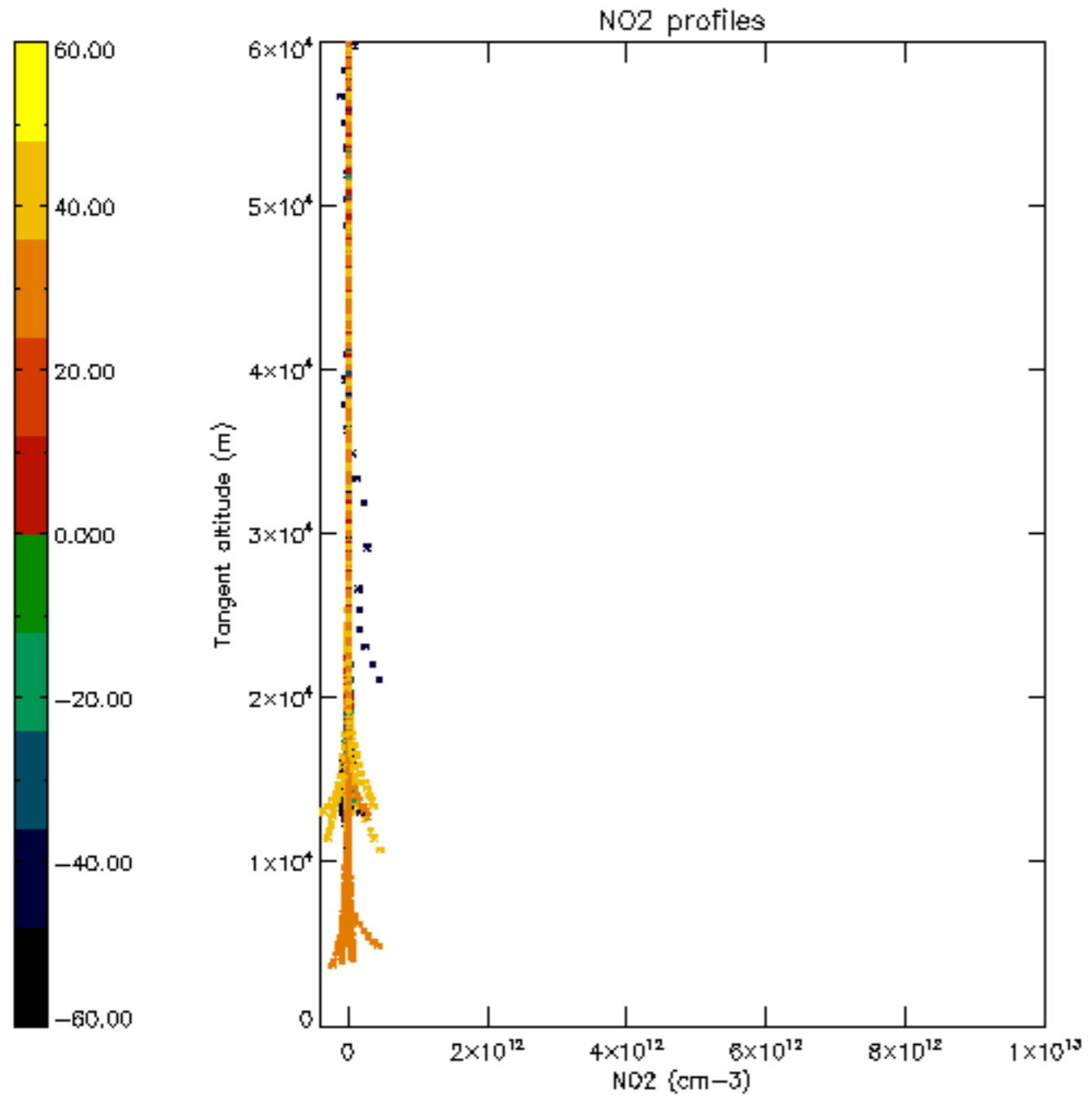


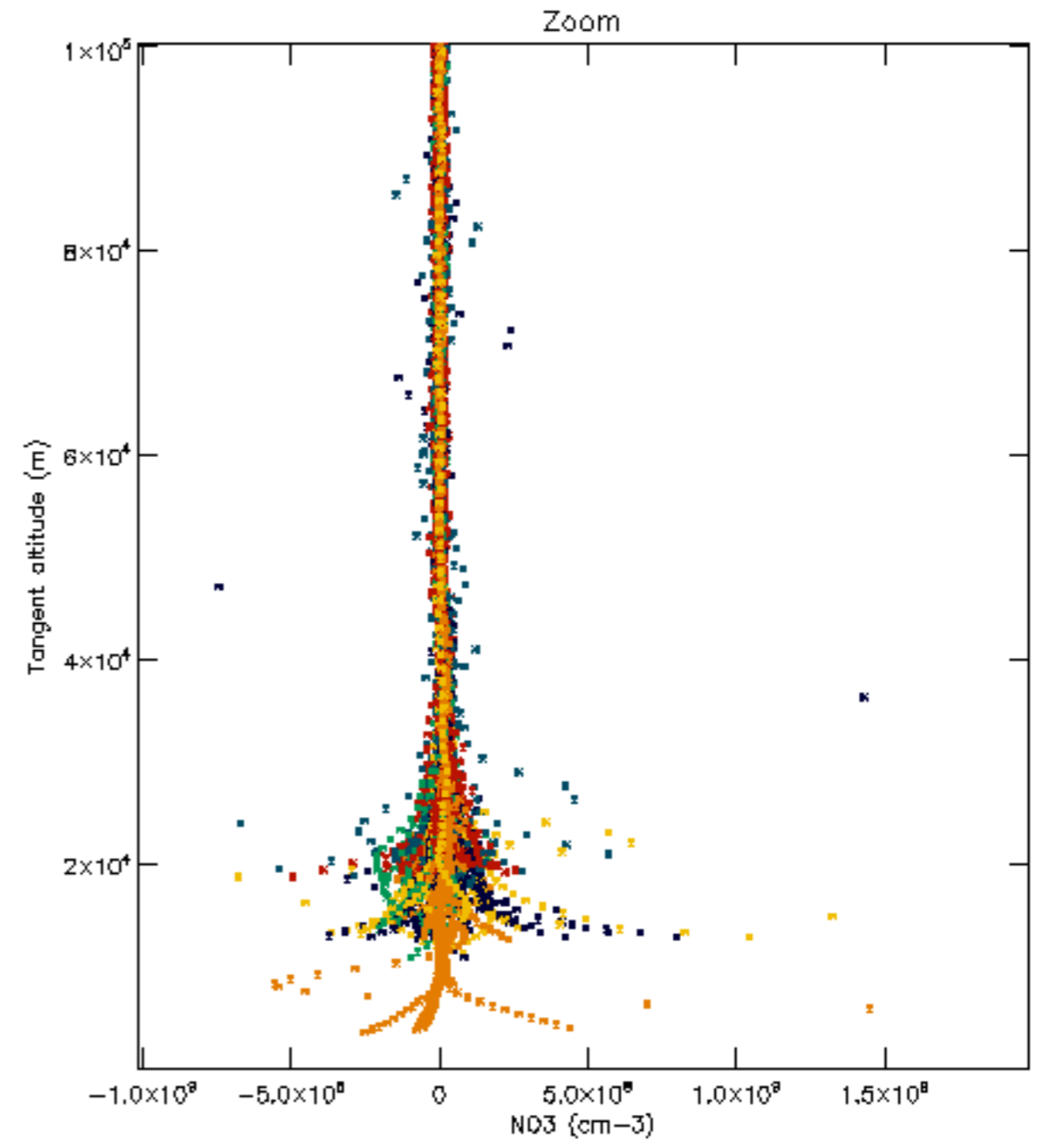
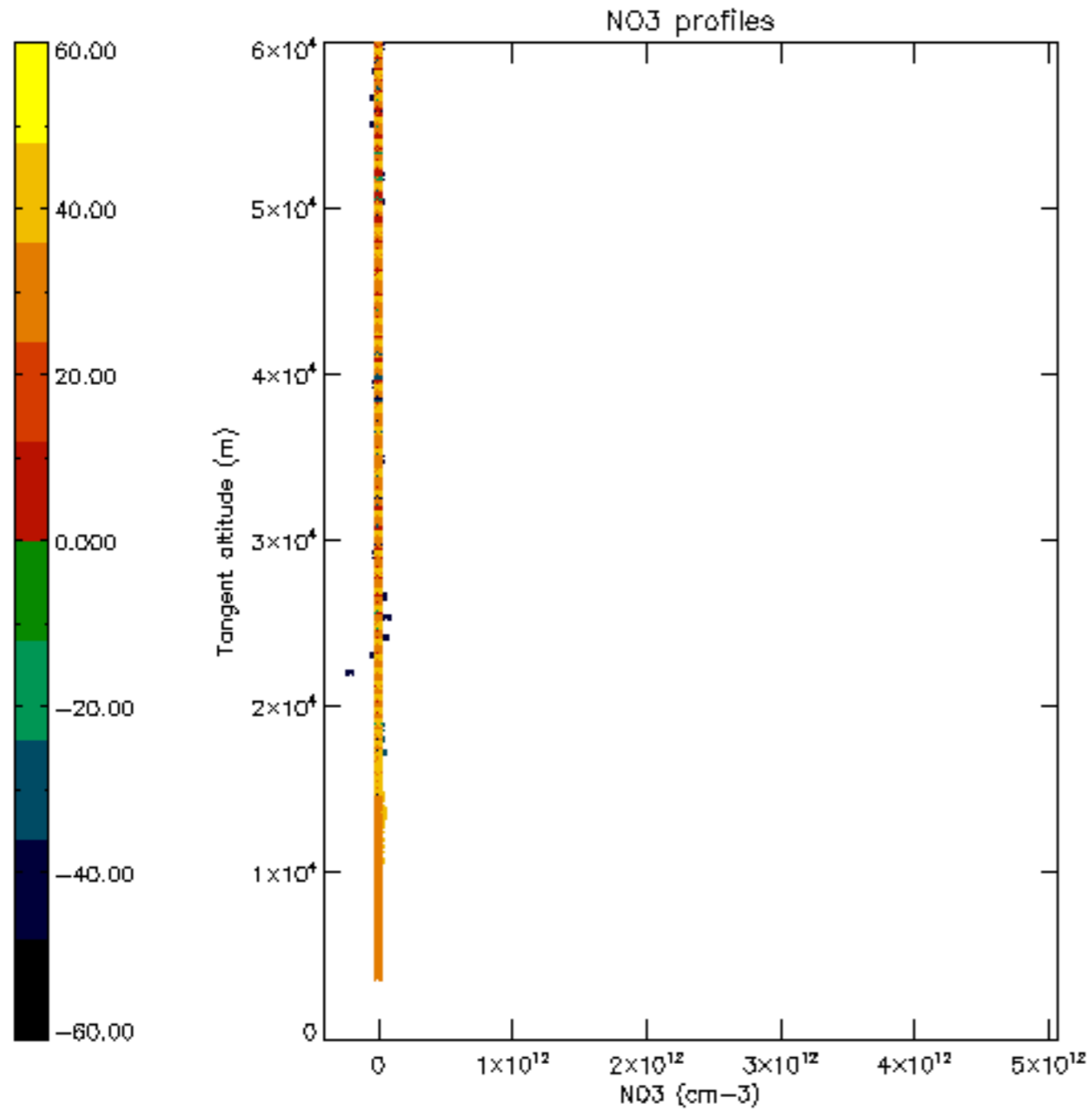


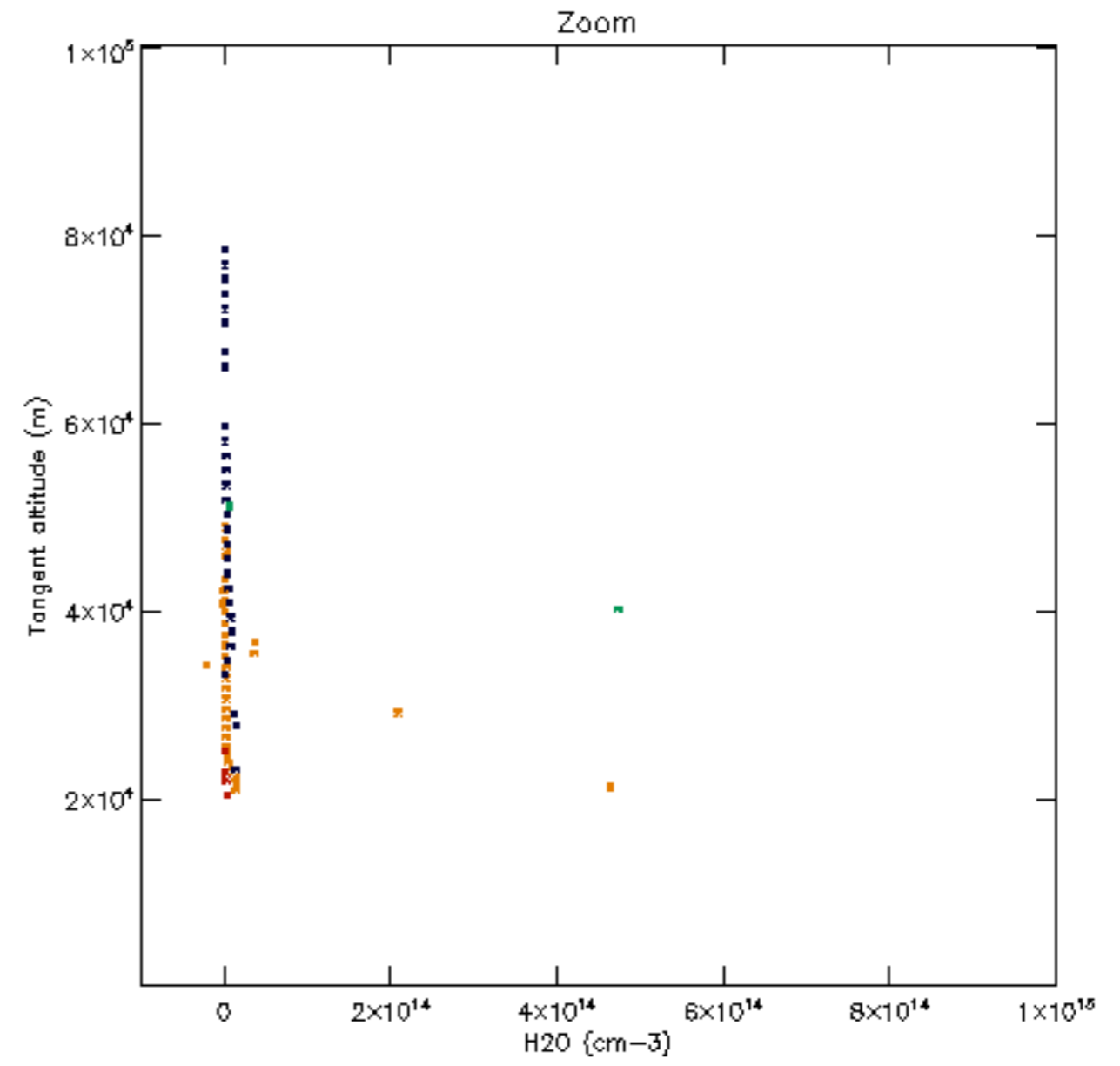
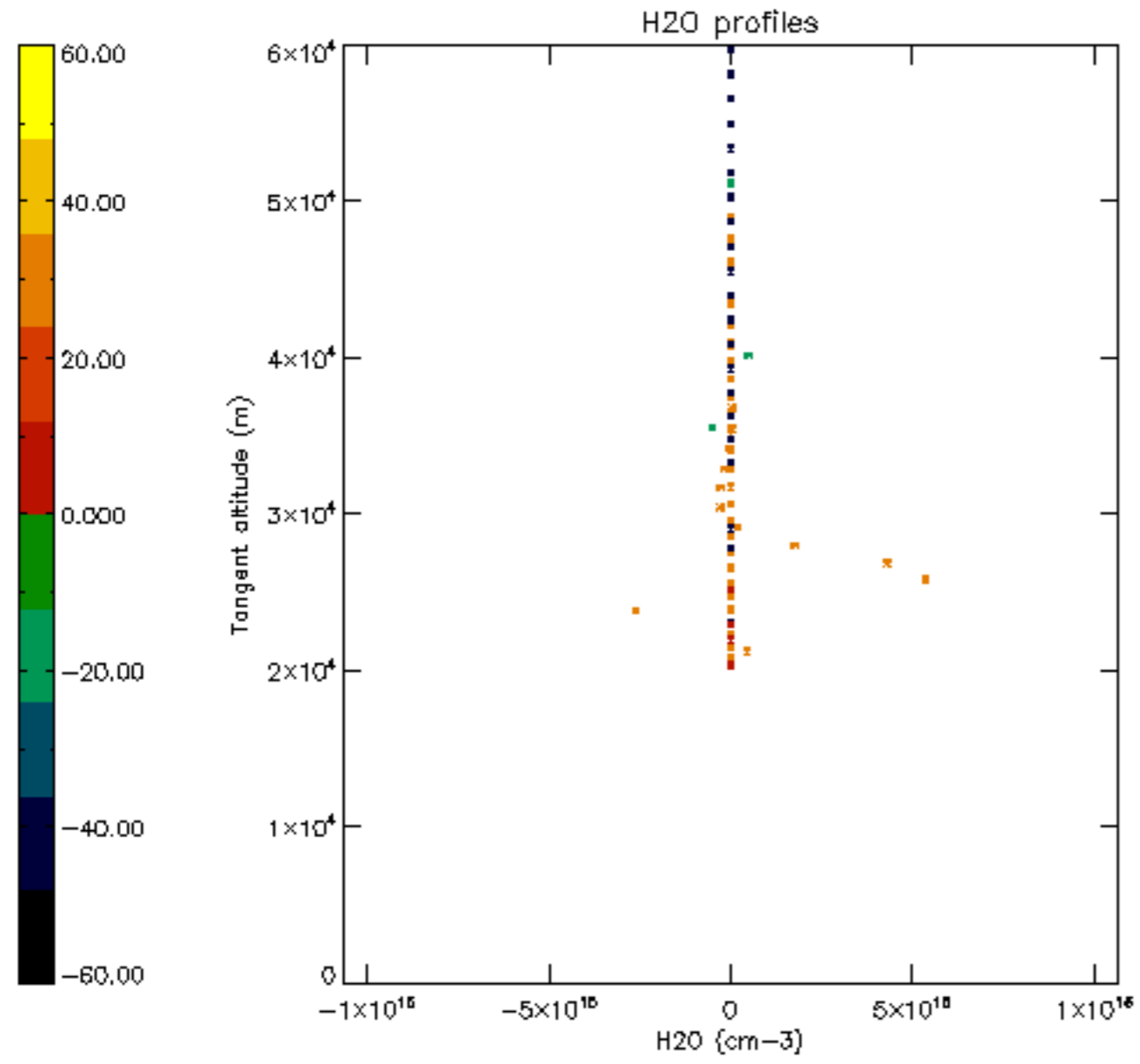


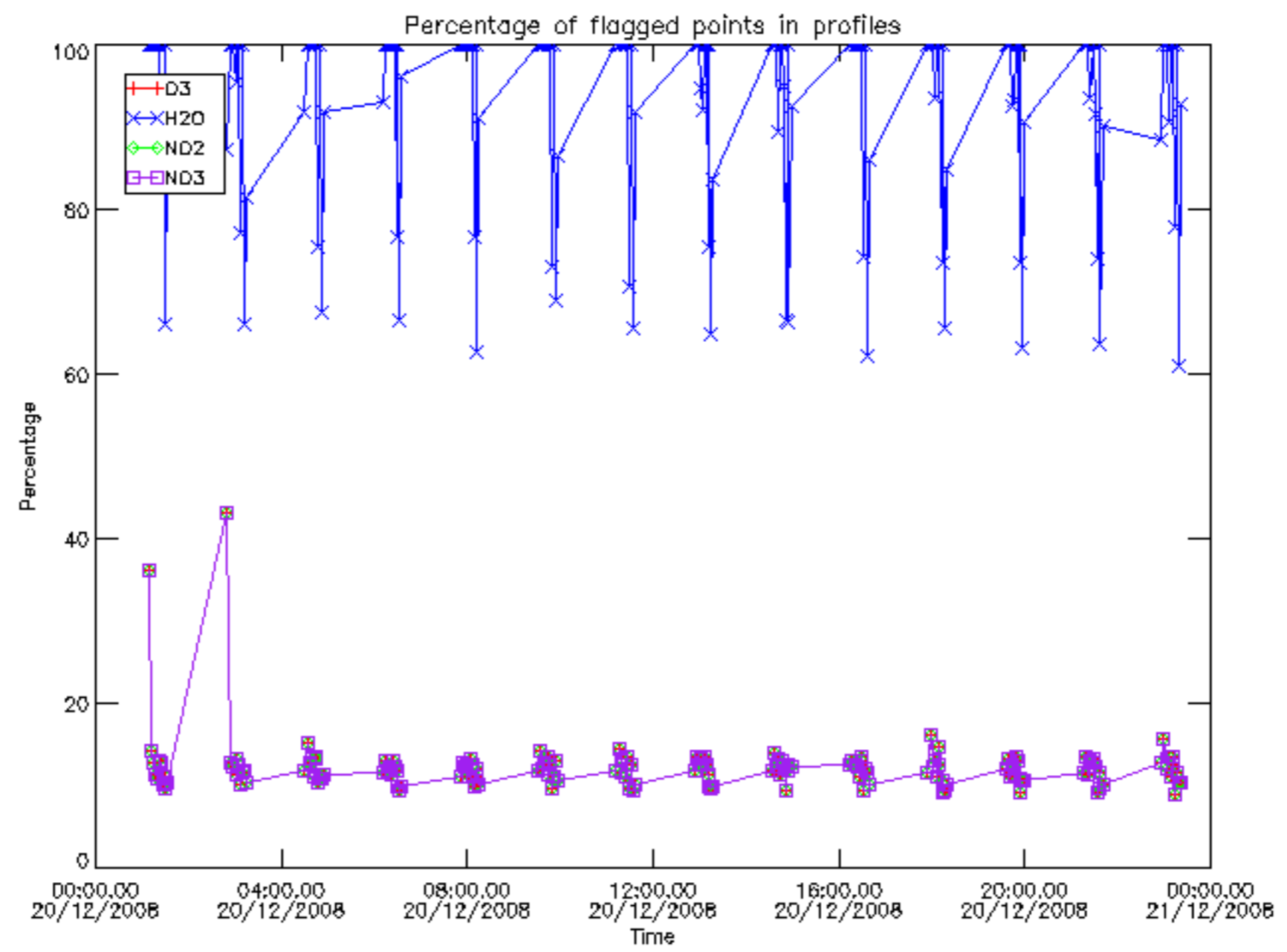




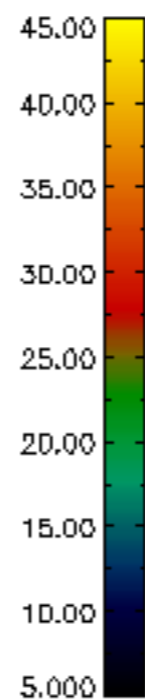
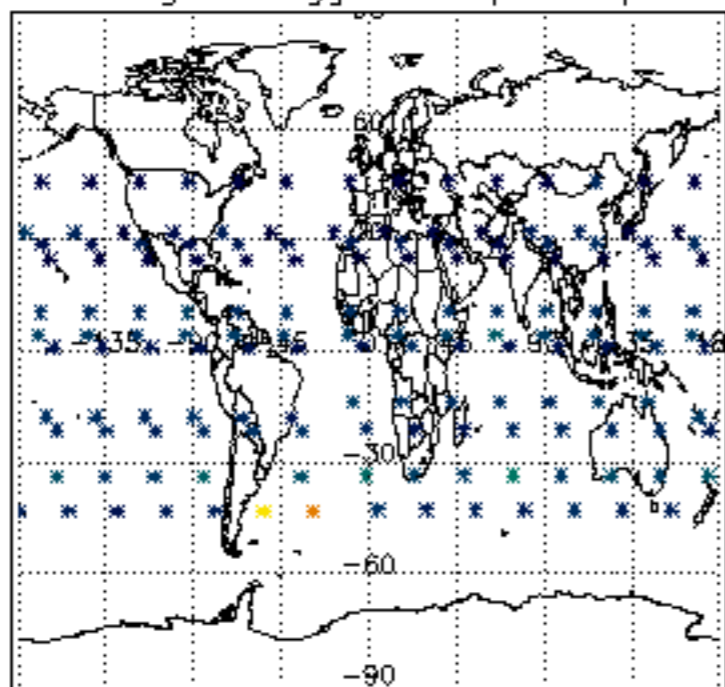




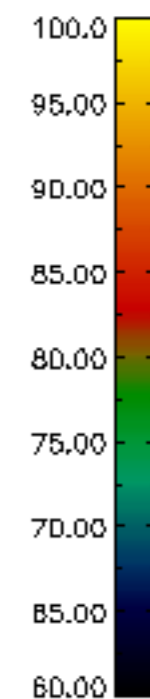
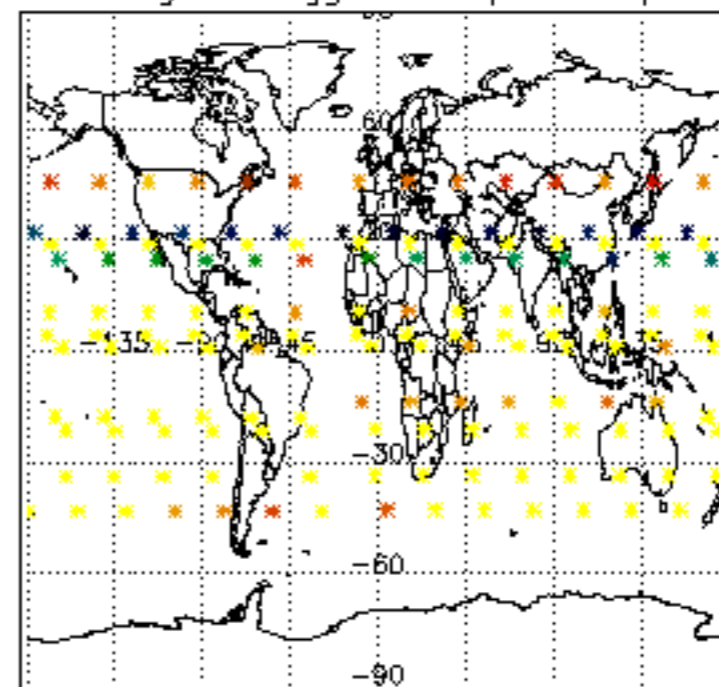




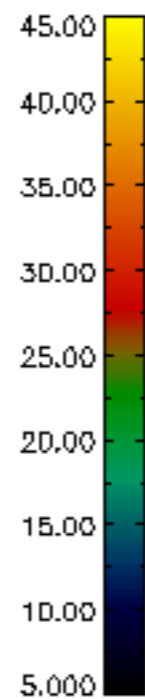
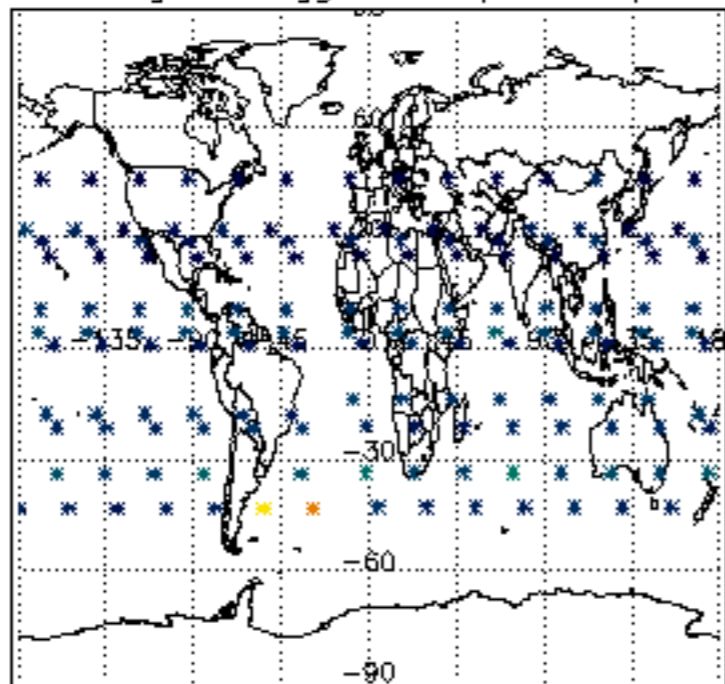
Percentage of flagged data per D3 profile



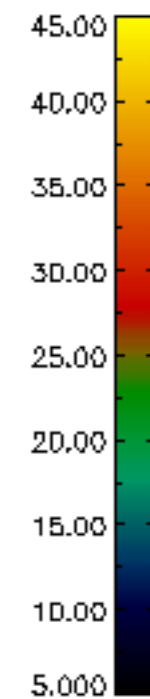
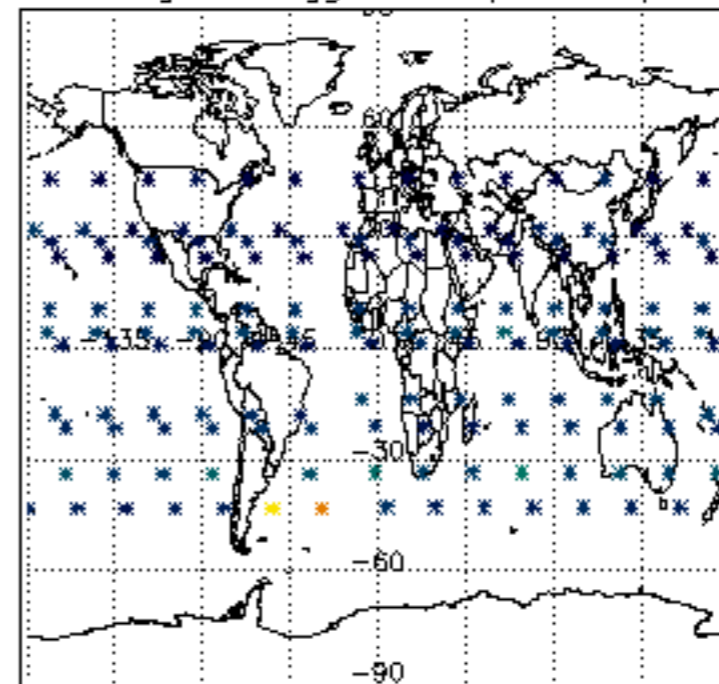
Percentage of flagged data per H2O profile

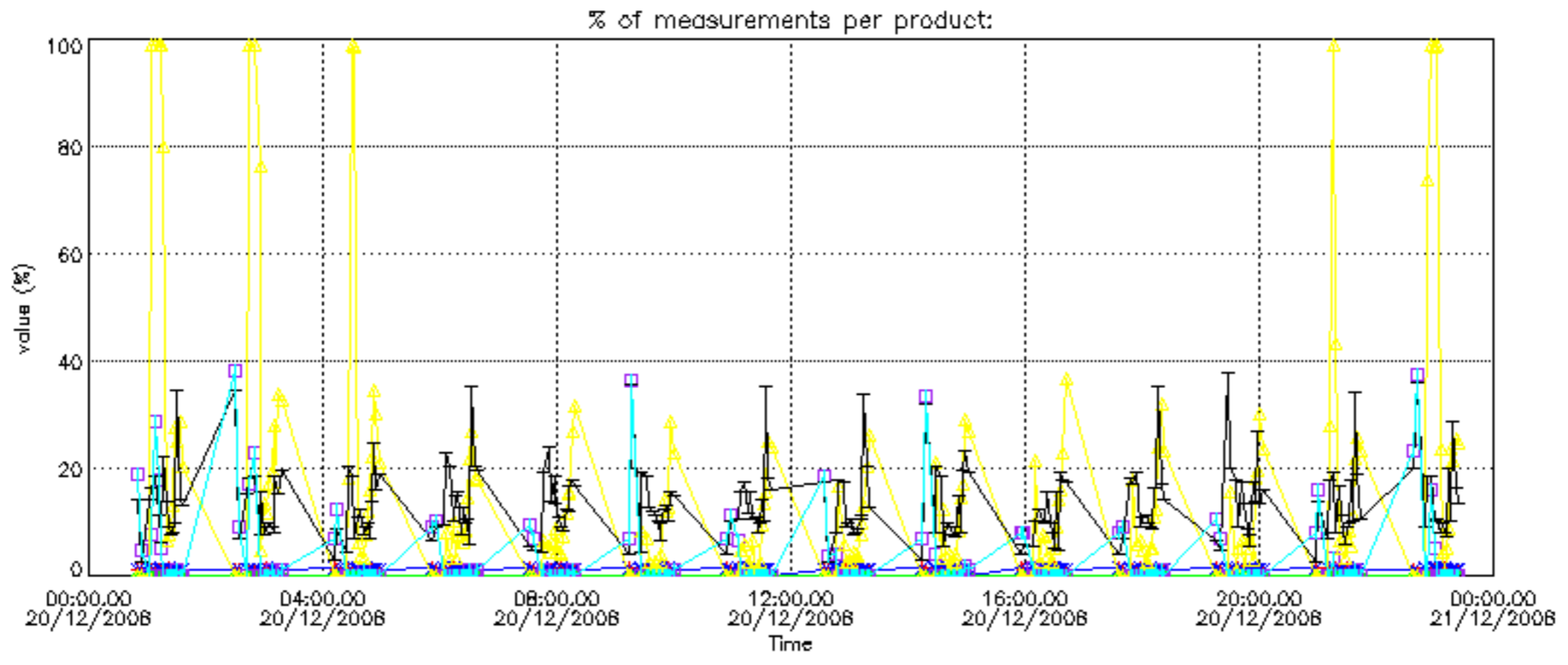


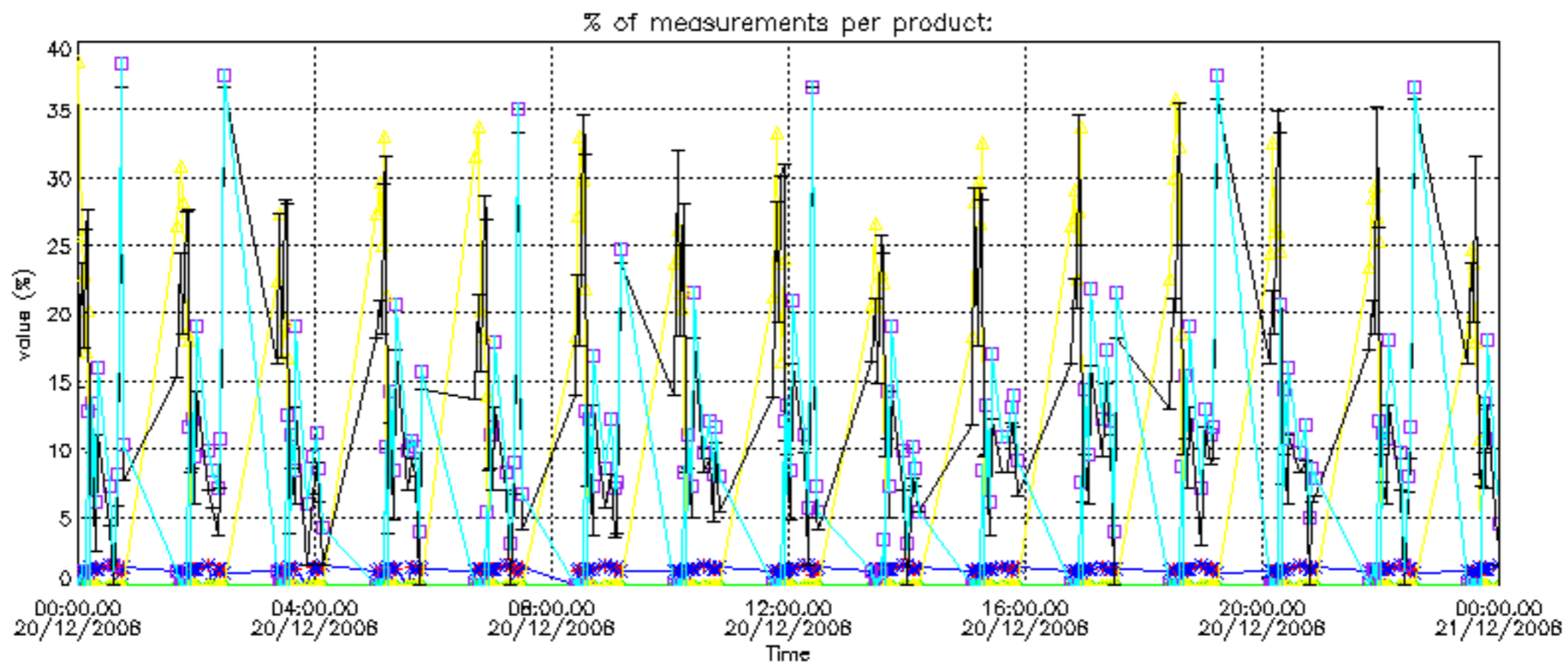
Percentage of flagged data per NO2 profile



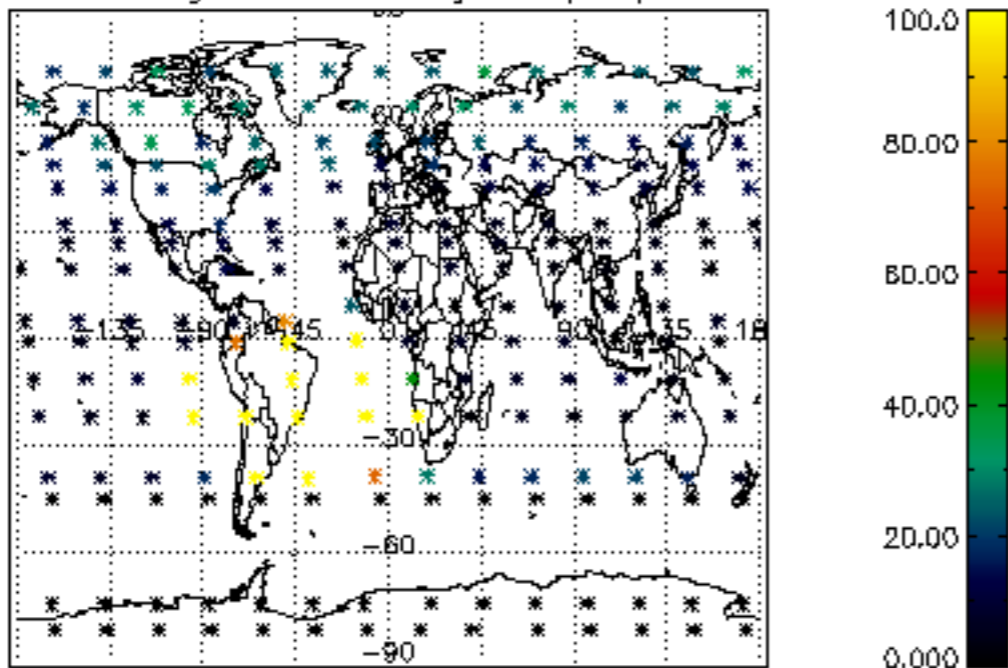
Percentage of flagged data per NO3 profile



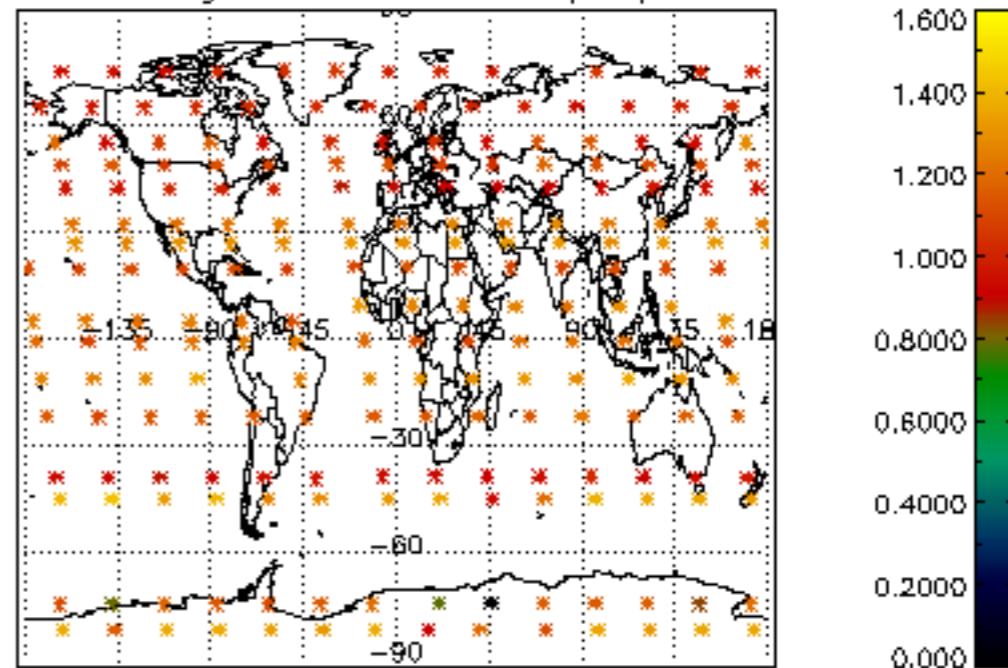




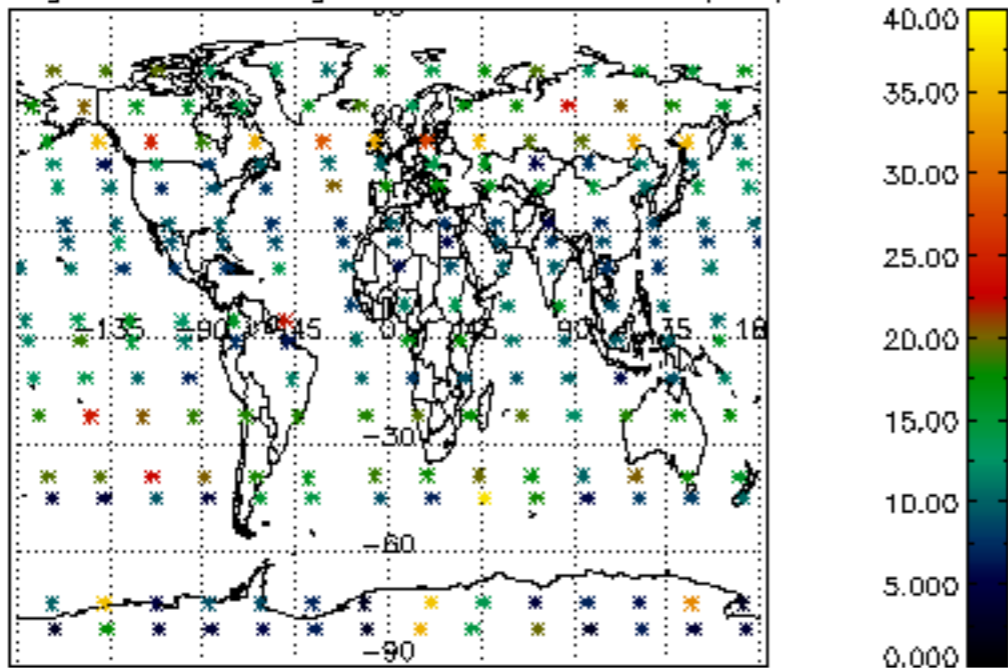
Percentage of cosmic ray hits per profile



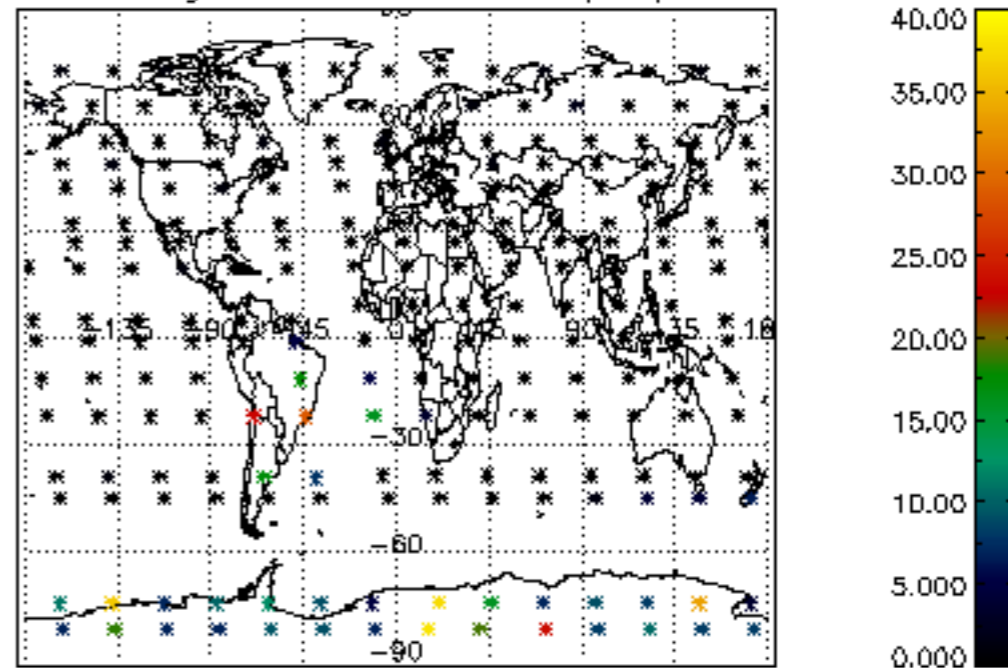
Percentage of datation errors per profile



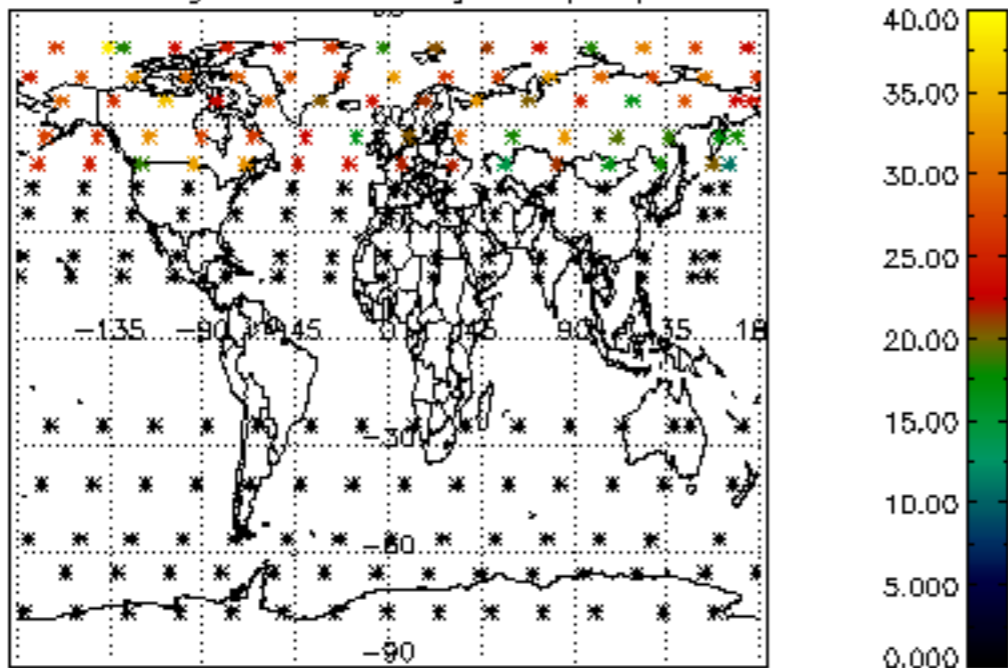
Percentage of star falling outside central band per profile



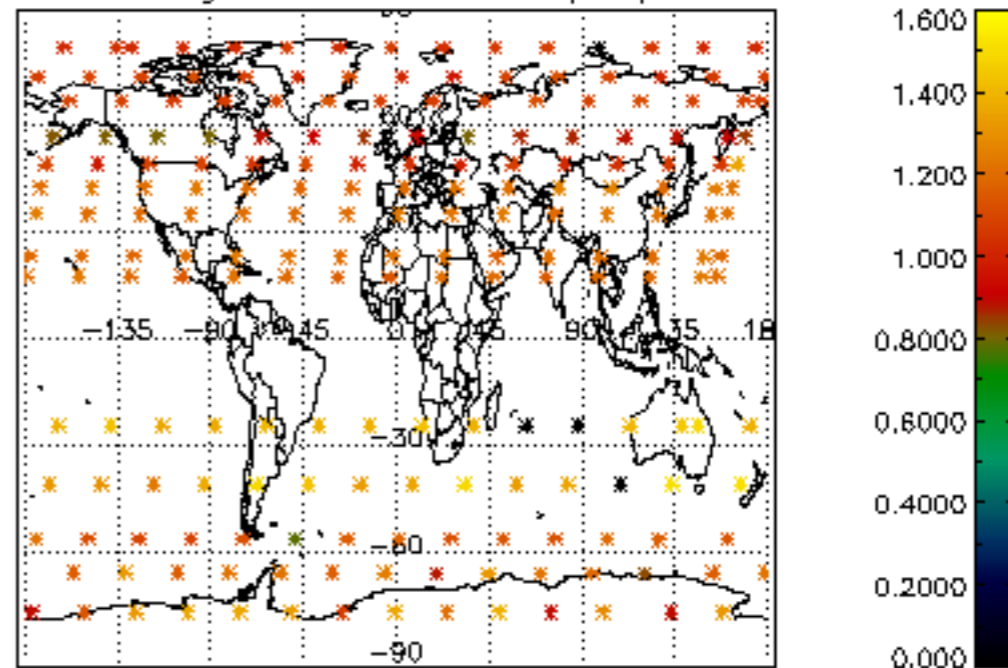
Percentage of saturation errors per profile



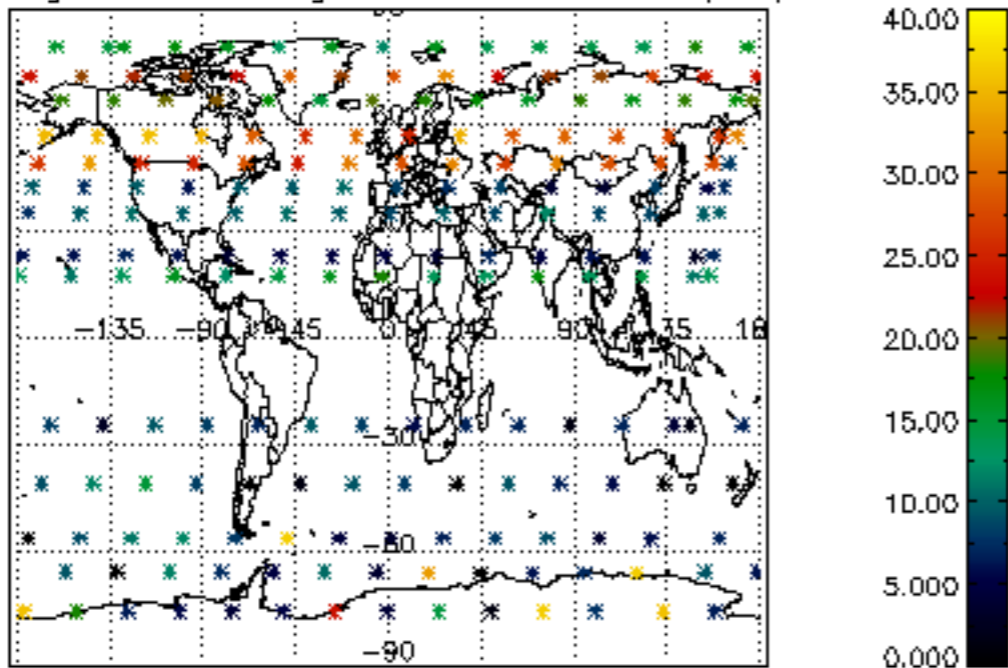
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

