

GOMOS Level 2 Daily Report

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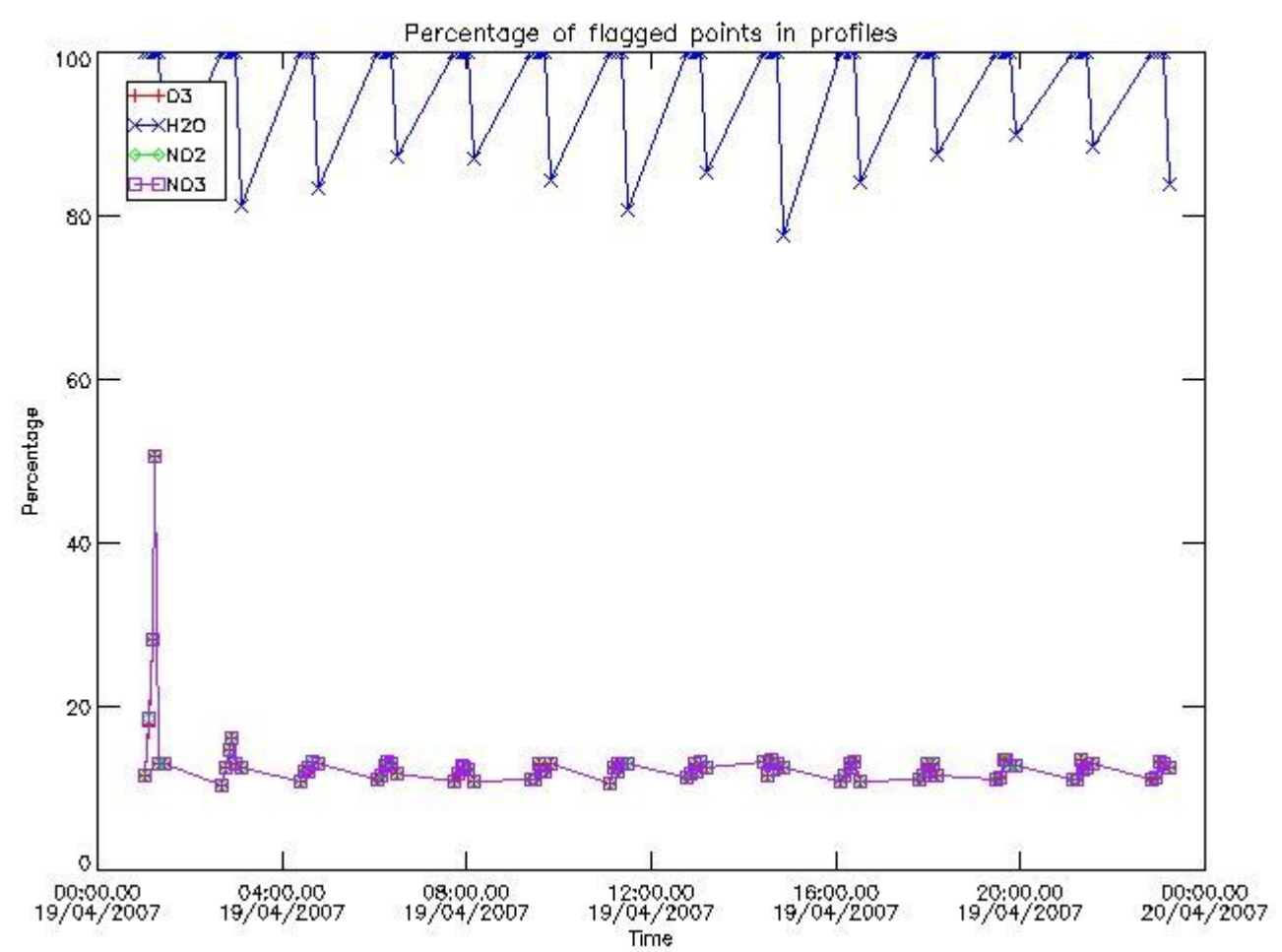
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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that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

Item	Value
Time of report generation	22APR2013 18:37:54
Data source version	GOMOS/6.01
Start time of products	19-04-2007 (19APR2007 00:00:00)
Stop time of products	20-04-2007 (20APR2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	324
Nb of prods with errors	0

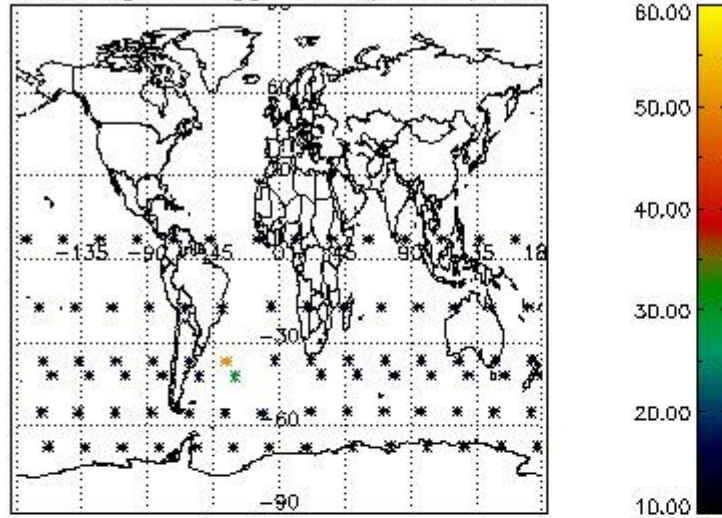
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070419_000222_000000392057_00231_26838_1062.N1	19-APR-2007 00:02:22	Twilight	39.000	106	9Bet Crv	2.6480	5600.0	78	26838	No
2	GOM_NL__2PRFIN20070419_000531_000000422057_00231_26838_1063.N1	19-APR-2007 00:05:31	Bright	42.000	15	67Alp Vir	0.97600	28000.	84	26838	No
3	GOM_NL__2PRFIN20070419_000834_000000362057_00231_26838_1064.N1	19-APR-2007 00:08:34	Bright	36.000	121	29Gam Vir	2.7400	7200.0	72	26838	No
4	GOM_NL__2PRFIN20070419_001214_000000382057_00231_26838_1065.N1	19-APR-2007 00:12:14	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	26838	No
5	GOM_NL__2PRFIN20070419_002016_000000352057_00231_26838_1066.N1	19-APR-2007 00:20:16	Bright	35.000	152	12Alp2CVn	2.8900	11000.	70	26838	No
6	GOM_NL__2PRFIN20070419_002416_000000332057_00231_26838_1067.N1	19-APR-2007 00:24:16	Bright	33.000	87	64Gam UMa	2.4330	11000.	66	26838	No
7	GOM_NL__2PRFIN20070419_002641_000000352057_00231_26838_1068.N1	19-APR-2007 00:26:41	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	26838	No
8	GOM_NL__2PRFIN20070419_003138_000000402057_00231_26838_1069.N1	19-APR-2007 00:31:38	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	26838	No
9	GOM_NL__2PRFIN20070419_003439_000000342057_00231_26838_1070.N1	19-APR-2007 00:34:39	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	26838	No
10	GOM_NL__2PRFIN20070419_004148_000000392057_00231_26838_1071.N1	19-APR-2007 00:41:48	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	26838	No
11	GOM_NL__2PRFIN20070419_004306_000000422057_00231_26838_1072.N1	19-APR-2007 00:43:06	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	26838	No
12	GOM_NL__2PRFIN20070419_005157_000000382057_00231_26838_1073.N1	19-APR-2007 00:51:57	Bright	37.500	164	44Eta Peg	2.9480	5400.0	75	26838	No
13	GOM_NL__2PRFIN20070419_010143_000000442057_00231_26838_1074.N1	19-APR-2007 01:01:43	Dark	44.000	162	34Alp Aqr	2.9440	5350.0	88	26838	No
14	GOM_NL__2PRFIN20070419_010651_000000472057_00231_26838_1075.N1	19-APR-2007 01:06:51	Dark	46.500	142	49Del Cap	2.8500	8900.0	93	26838	No
15	GOM_NL__2PRFIN20070419_011203_000000402057_00231_26838_1076.N1	19-APR-2007 01:12:03	Dark	39.500	172	Gam Gru	3.0030	13100.	79	26838	No
16	GOM_NL__2PRFIN20070419_011402_000000382057_00231_26838_1077.N1	19-APR-2007 01:14:02	Dark	38.000	31	Alp Gru	1.7340	15200.	76	26838	No
17	GOM_NL__2PRFIN20070419_011906_000000402057_00232_26839_1063.N1	19-APR-2007 01:19:06	Dark	39.500	45	Alp Pav	1.9400	26000.	79	26839	No
18	GOM_NL__2PRFIN20070419_012622_000000402057_00232_26839_1064.N1	19-APR-2007 01:26:22	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	26839	No
19	GOM_NL__2PRFIN20070419_012829_000000392057_00232_26839_1065.N1	19-APR-2007 01:28:29	Straylight	38.500	134	Bet TrA	2.8100	6600.0	77	26839	No
20	GOM_NL__2PRFIN20070419_013050_000000442057_00232_26839_1066.N1	19-APR-2007 01:30:50	Straylight	44.000	4	Alp1Cen	-0.010000	5800.0	88	26839	No
21	GOM_NL__2PRFIN20070419_013404_000000412057_00232_26839_1067.N1	19-APR-2007 01:34:04	Straylight	40.500	78	Alp Lup	2.3040	28000.	81	26839	No
22	GOM_NL__2PRFIN20070419_013539_000000422057_00232_26839_1068.N1	19-APR-2007 01:35:39	Straylight	42.000	81	Eta Cen	2.3560	28000.	84	26839	No
23	GOM_NL__2PRFIN20070419_013757_000000462057_00232_26839_1069.N1	19-APR-2007 01:37:57	Straylight	45.500	54	5The Cen	2.0550	4500.0	91	26839	No
24	GOM_NL__2PRFIN20070419_014258_000000432057_00232_26839_1070.N1	19-APR-2007 01:42:58	Twilight	43.000	106	9Bet Crv	2.6480	5600.0	86	26839	No
25	GOM_NL__2PRFIN20070419_014607_000000442057_00232_26839_1071.N1	19-APR-2007 01:46:07	Bright	43.500	15	67Alp Vir	0.97600	28000.	87	26839	No
26	GOM_NL__2PRFIN20070419_014910_000000372057_00232_26839_1072.N1	19-APR-2007 01:49:10	Bright	36.500	121	29Gam Vir	2.7400	7200.0	73	26839	No
27	GOM_NL__2PRFIN20070419_015250_000000382057_00232_26839_1073.N1	19-APR-2007 01:52:50	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	26839	No
28	GOM_NL__2PRFIN20070419_020051_000000362057_00232_26839_1074.N1	19-APR-2007 02:00:51	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	26839	No
29	GOM_NL__2PRFIN20070419_020452_000000342057_00232_26839_1075.N1	19-APR-2007 02:04:52	Bright	33.500	87	64Gam UMa	2.4330	11000.	67	26839	No
30	GOM_NL__2PRFIN20070419_020717_000000362057_00232_26839_1076.N1	19-APR-2007 02:07:17	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	26839	No
31	GOM_NL__2PRFIN20070419_021213_000000392057_00232_26839_1077.N1	19-APR-2007 02:12:13	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	26839	No
32	GOM_NL__2PRFIN20070419_021515_000000322057_00232_26839_1078.N1	19-APR-2007 02:15:15	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	26839	No
33	GOM_NL__2PRFIN20070419_022223_000000482057_00232_26839_1079.N1	19-APR-2007 02:22:23	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	26839	No
34	GOM_NL__2PRFIN20070419_022342_000000372057_00232_26839_1080.N1	19-APR-2007 02:23:42	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	26839	No
35	GOM_NL__2PRFIN20070419_023233_000000382057_00232_26839_1081.N1	19-APR-2007 02:32:33	Bright	38.000	164	44Eta Peg	2.9480	5400.0	76	26839	No
36	GOM_NL__2PRFIN20070419_024220_000000492057_00232_26839_1082.N1	19-APR-2007 02:42:20	Dark	49.000	162	34Alp Aqr	2.9440	5350.0	98	26839	No
37	GOM_NL__2PRFIN20070419_024727_000000452057_00232_26839_1083.N1	19-APR-2007 02:47:27	Dark	45.000	142	49Del Cap	2.8500	8900.0	90	26839	No
38	GOM_NL__2PRFIN20070419_025239_000000382057_00232_26839_1084.N1	19-APR-2007 02:52:39	Dark	38.000	172	Gam Gru	3.0030	13100.	76	26839	No
39	GOM_NL__2PRFIN20070419_025438_000000382057_00232_26839_1085.N1	19-APR-2007 02:54:38	Dark	38.000	31	Alp Gru	1.7340	15200.	76	26839	No
40	GOM_NL__2PRFIN20070419_025943_000000392057_00233_26840_1071.N1	19-APR-2007 02:59:43	Dark	39.000	45	Alp Pav	1.9400	26000.	78	26840	No
41	GOM_NL__2PRFIN20070419_030659_000000412057_00233_26840_1072.N1	19-APR-2007 03:06:59	Dark	40.500	43	Alp TrA	1.9100	4250.0	81	26840	No
42	GOM_NL__2PRFIN20070419_030906_000000392057_00233_26840_1073.N1	19-APR-2007 03:09:06	Straylight	38.500	134	Bet TrA	2.8100	6600.0	77	26840	No

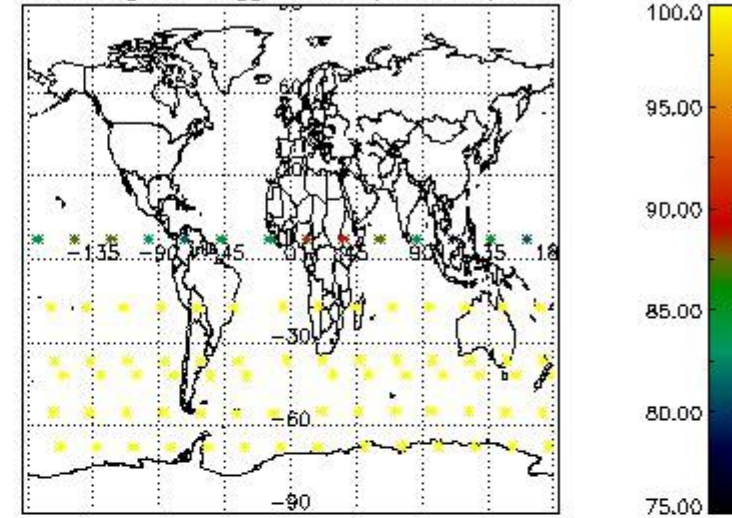


3.2 Plot quality information per product (world map)

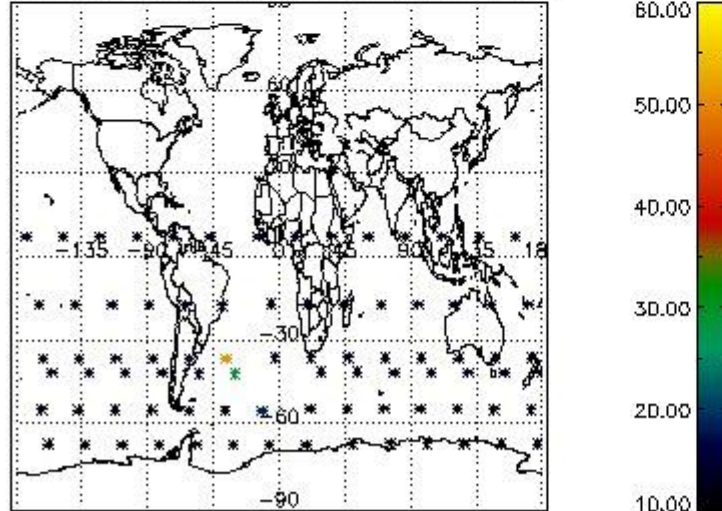
Percentage of flagged data per O3 profile



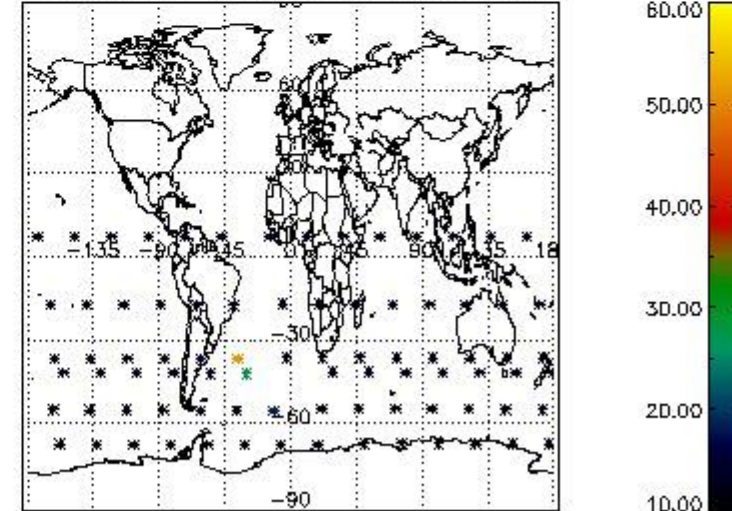
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

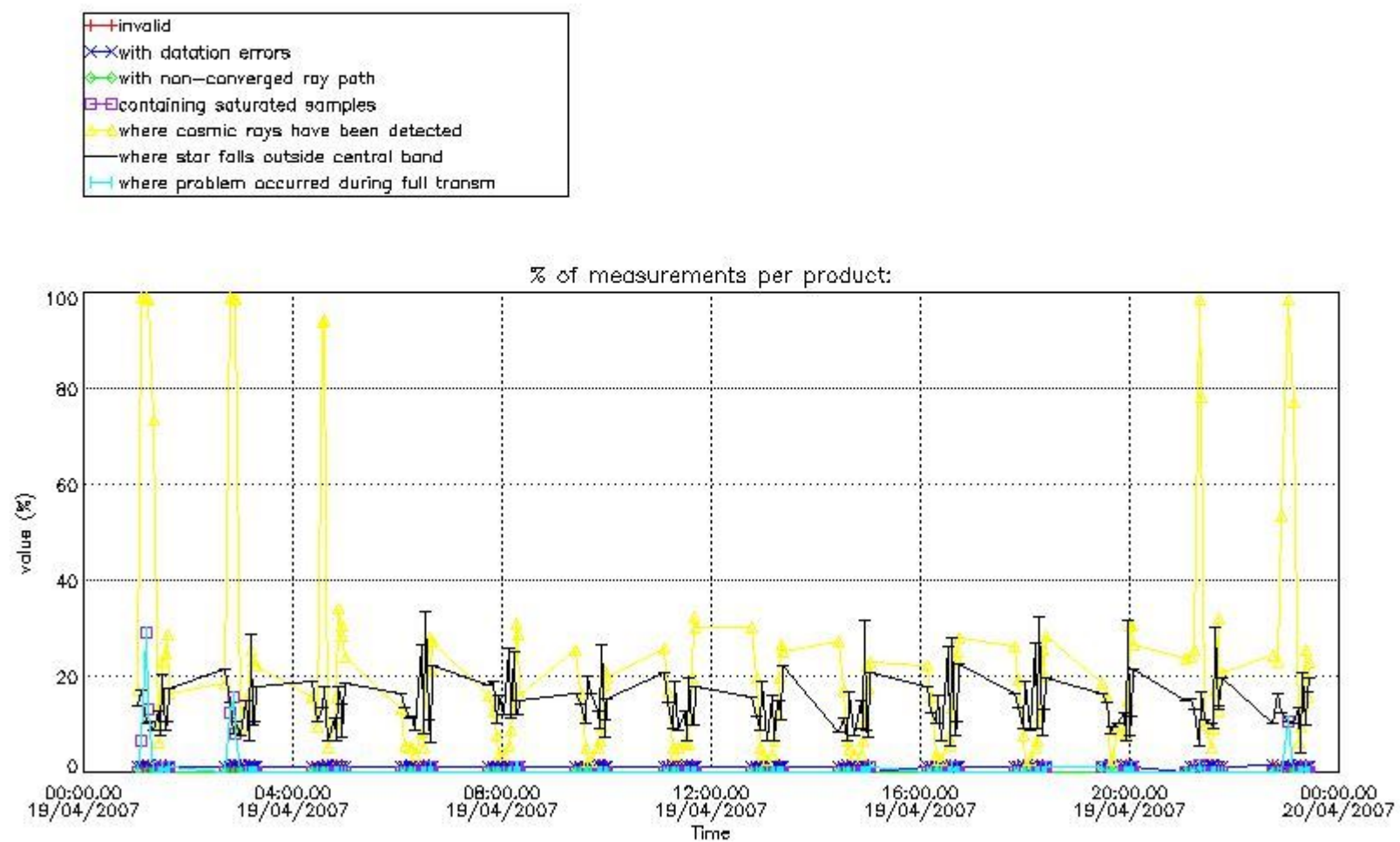


4. Level 1 quality information per product

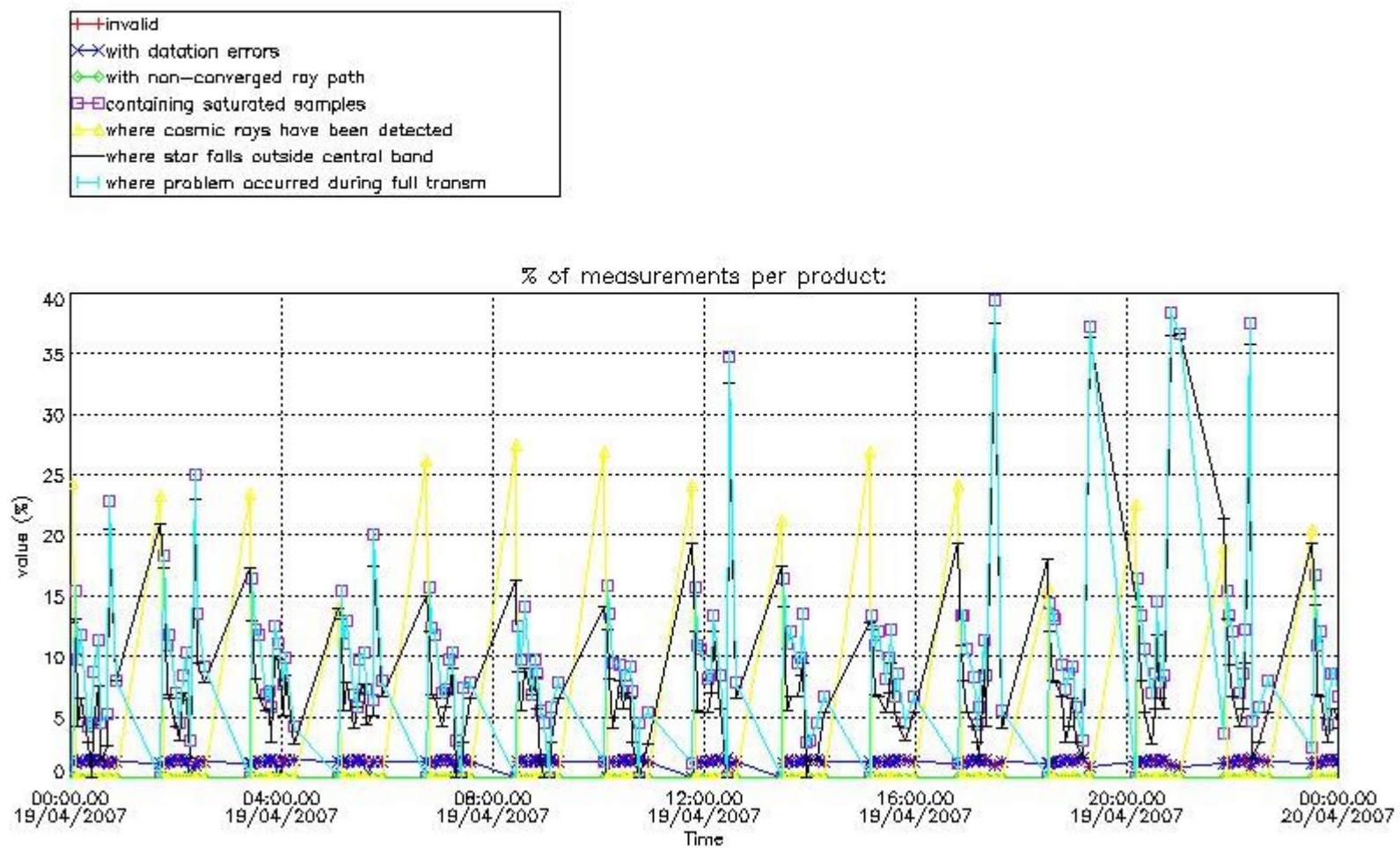
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

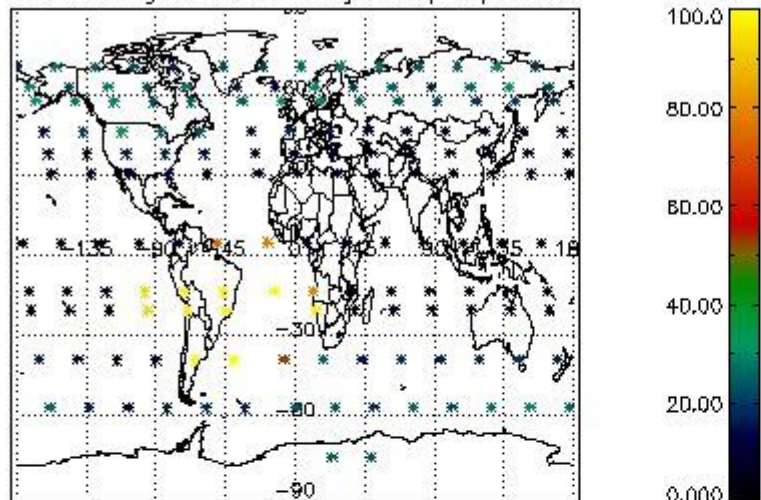


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

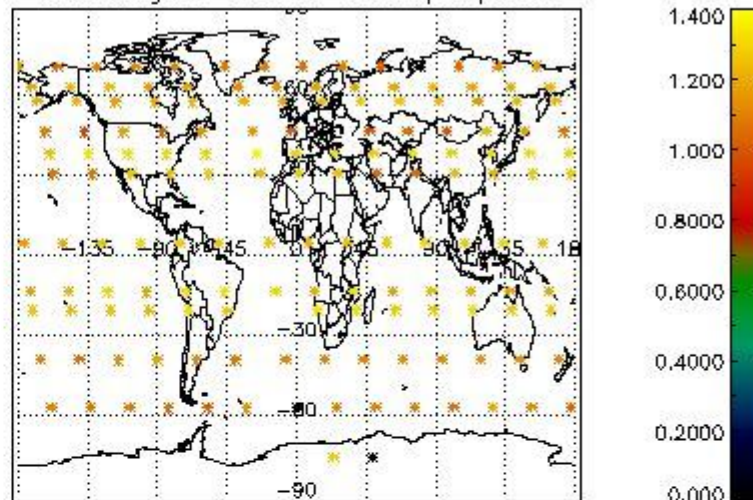


4.2 Plot quality information per product coming from level 1b processing (world map)
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

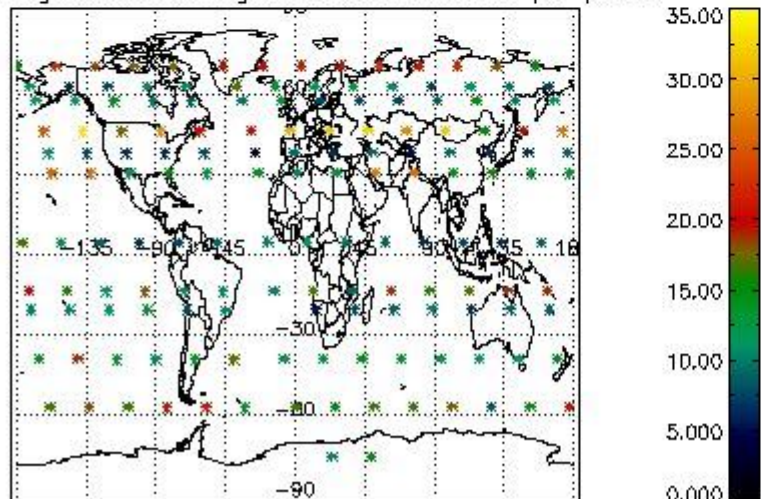
Percentage of cosmic ray hits per profile



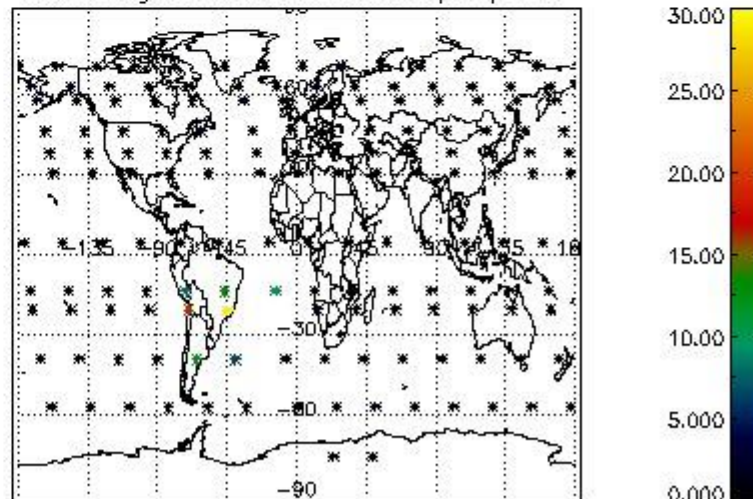
Percentage of datation errors per profile



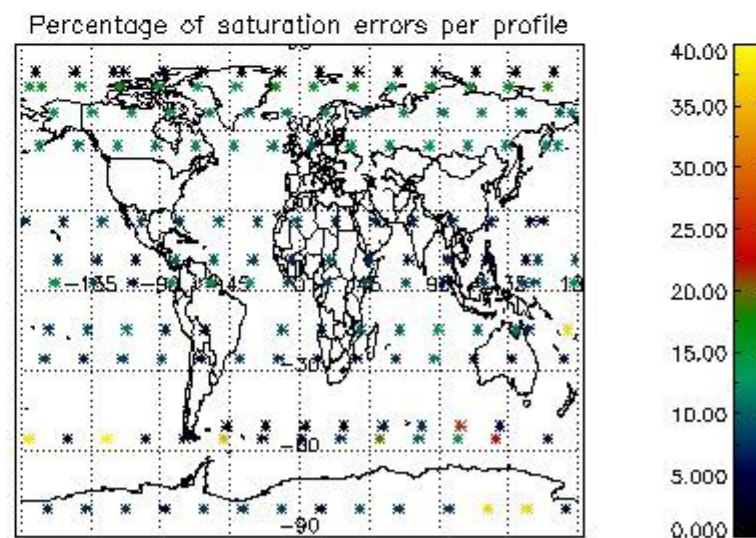
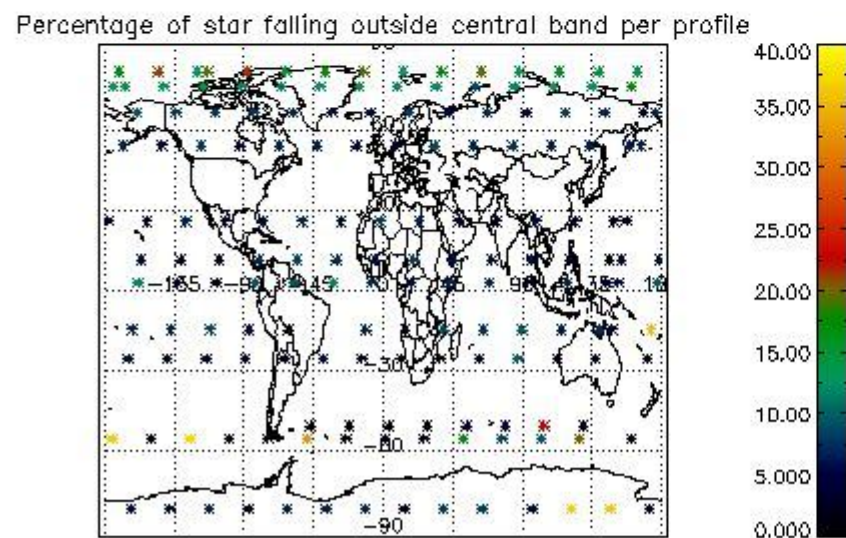
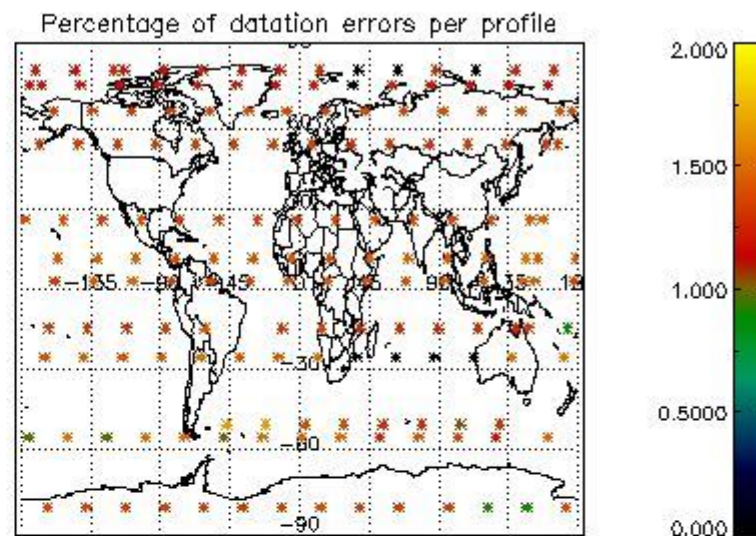
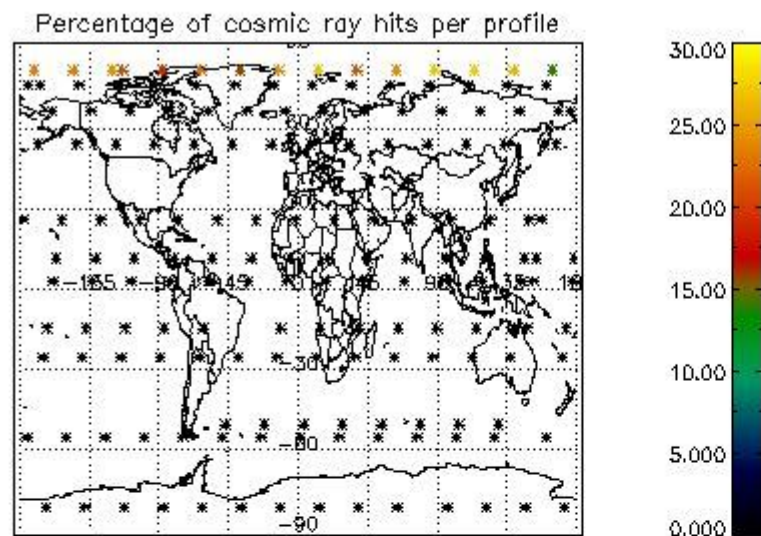
Percentage of star falling outside central band per profile



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

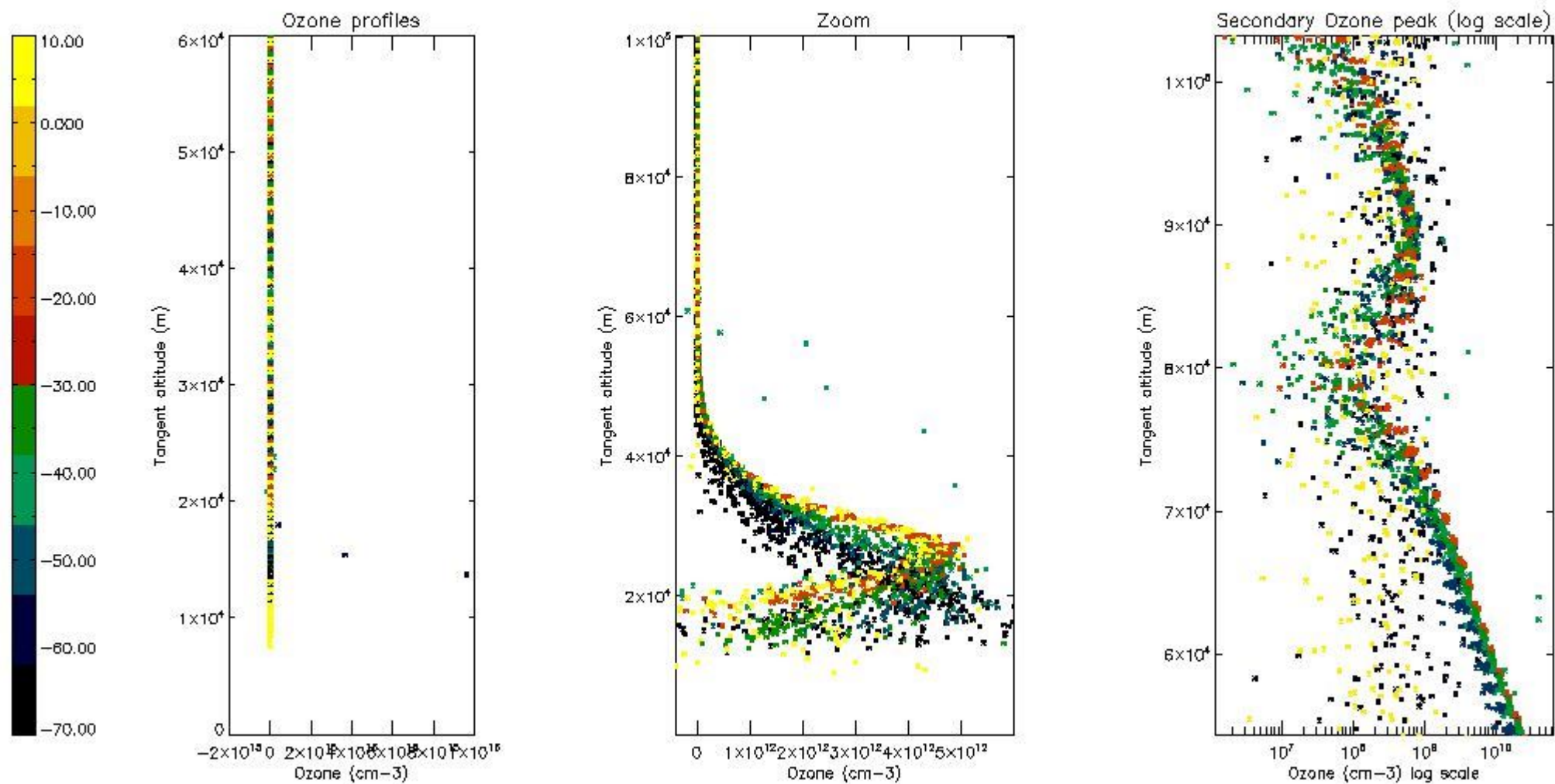
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	13

STD < 10	9
STD < 5	5

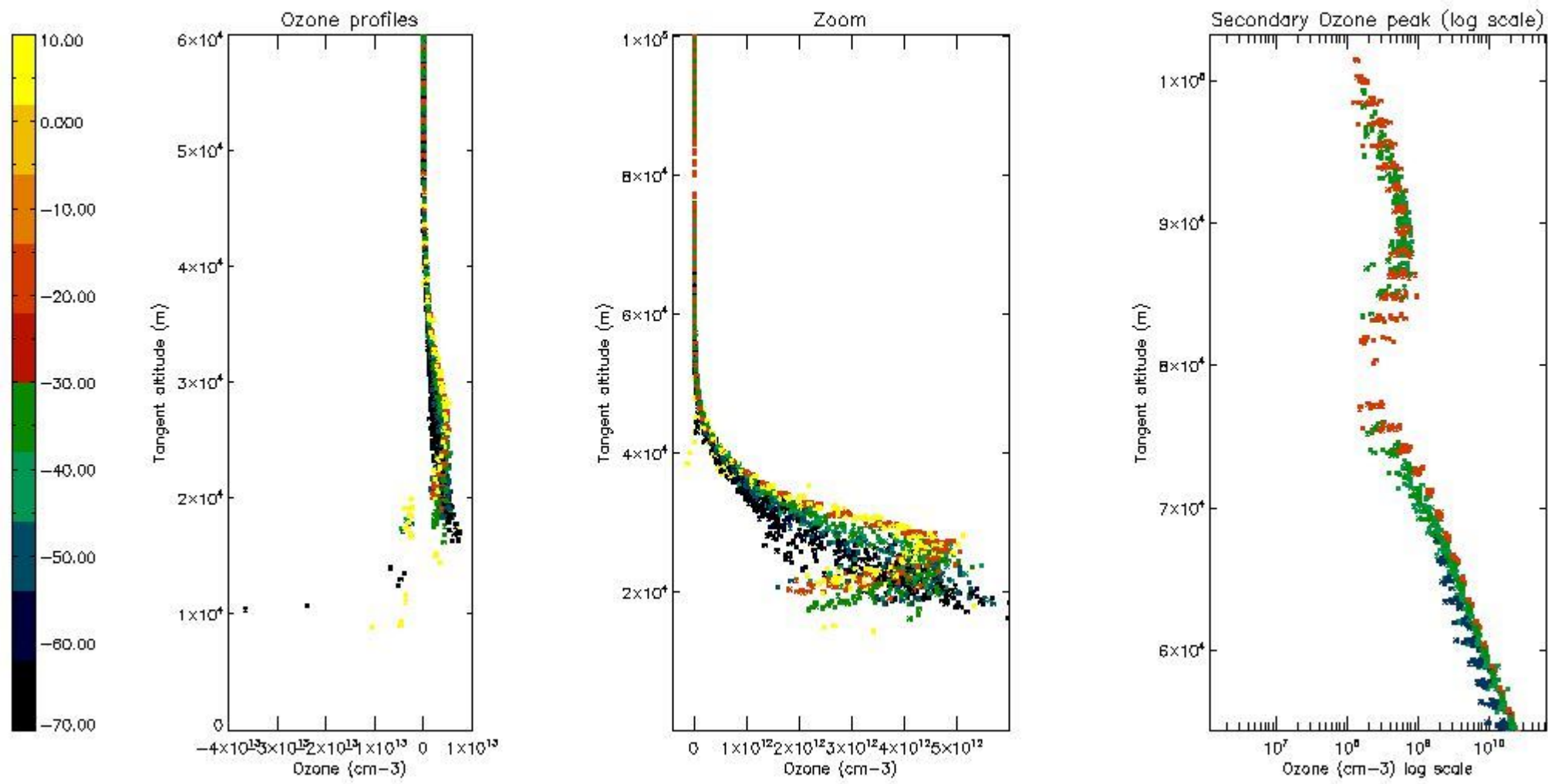
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



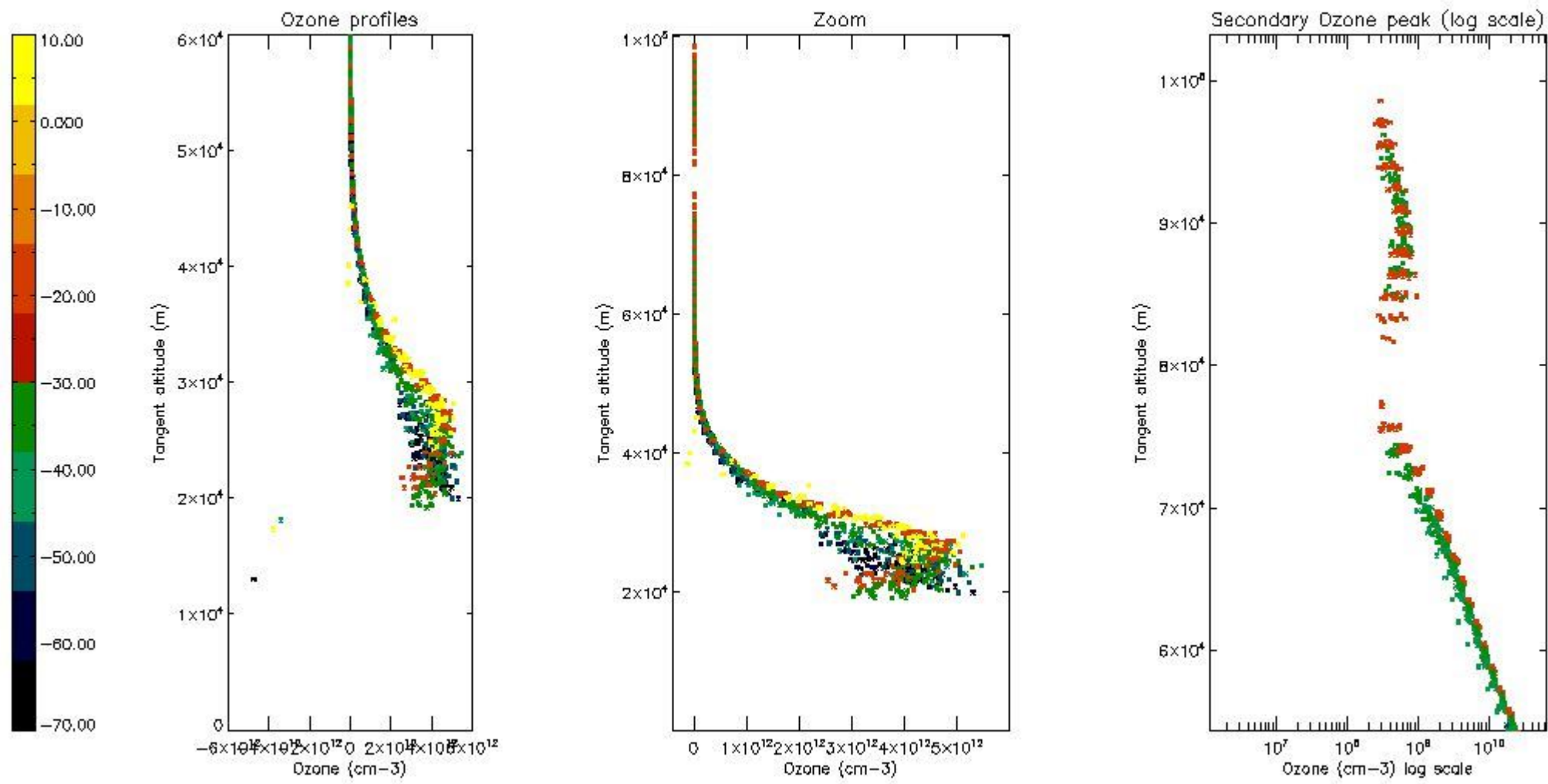
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



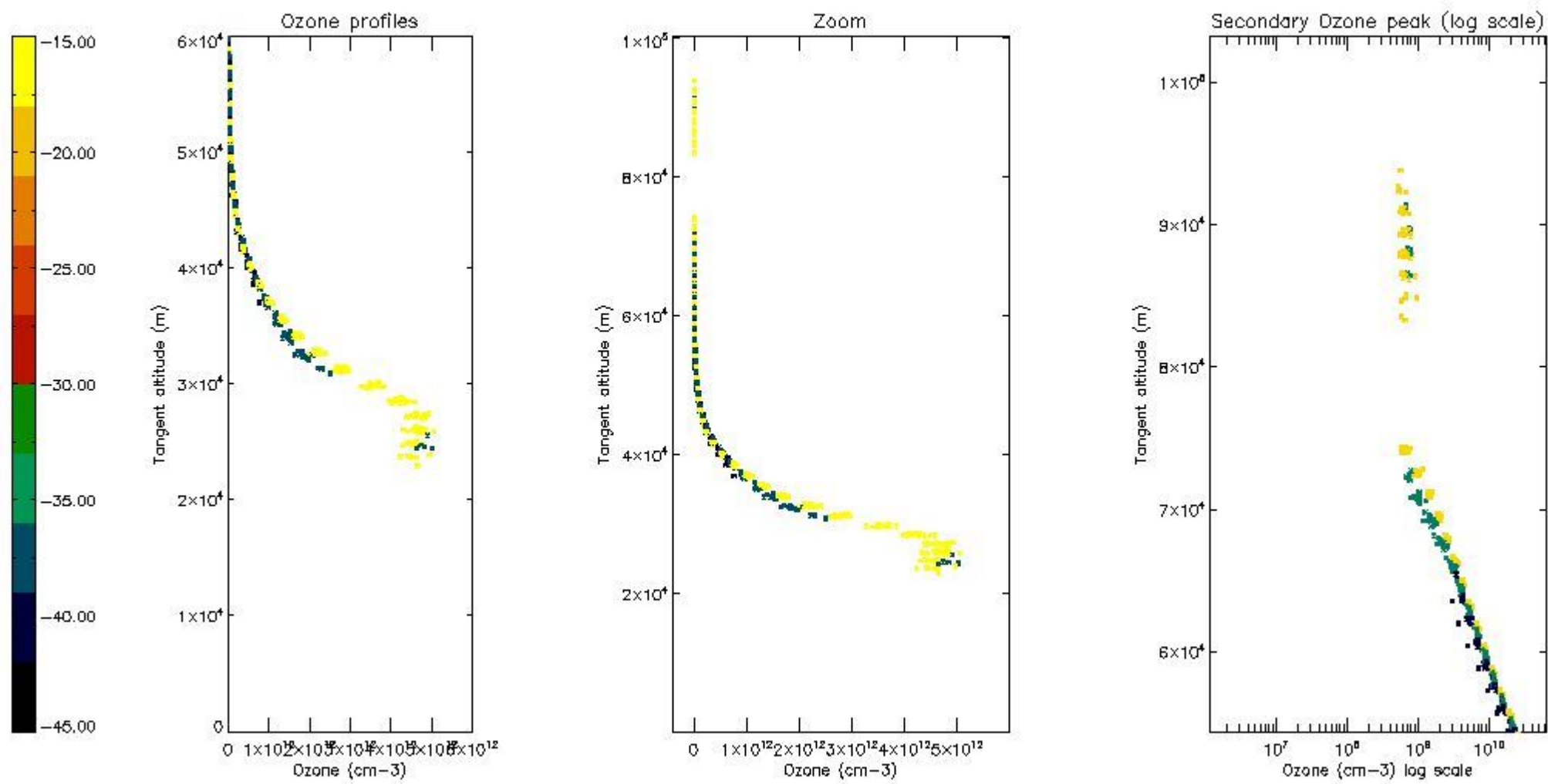
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



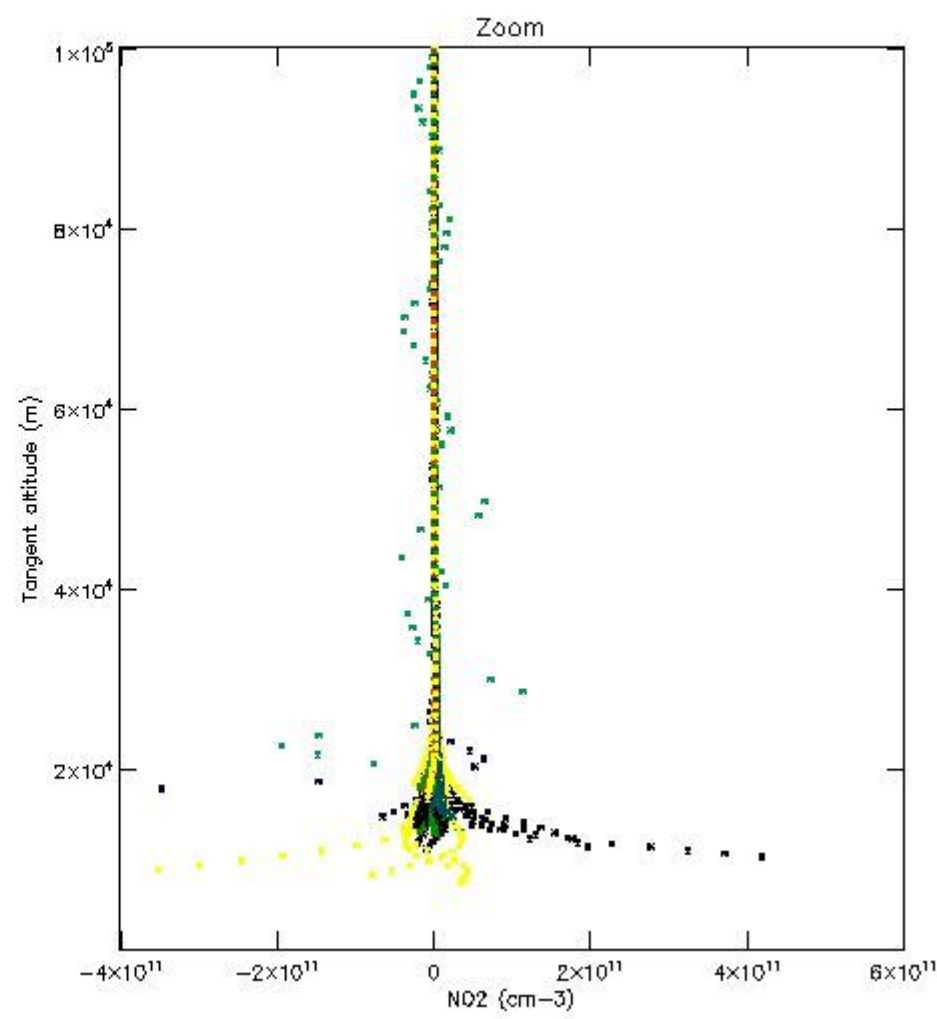
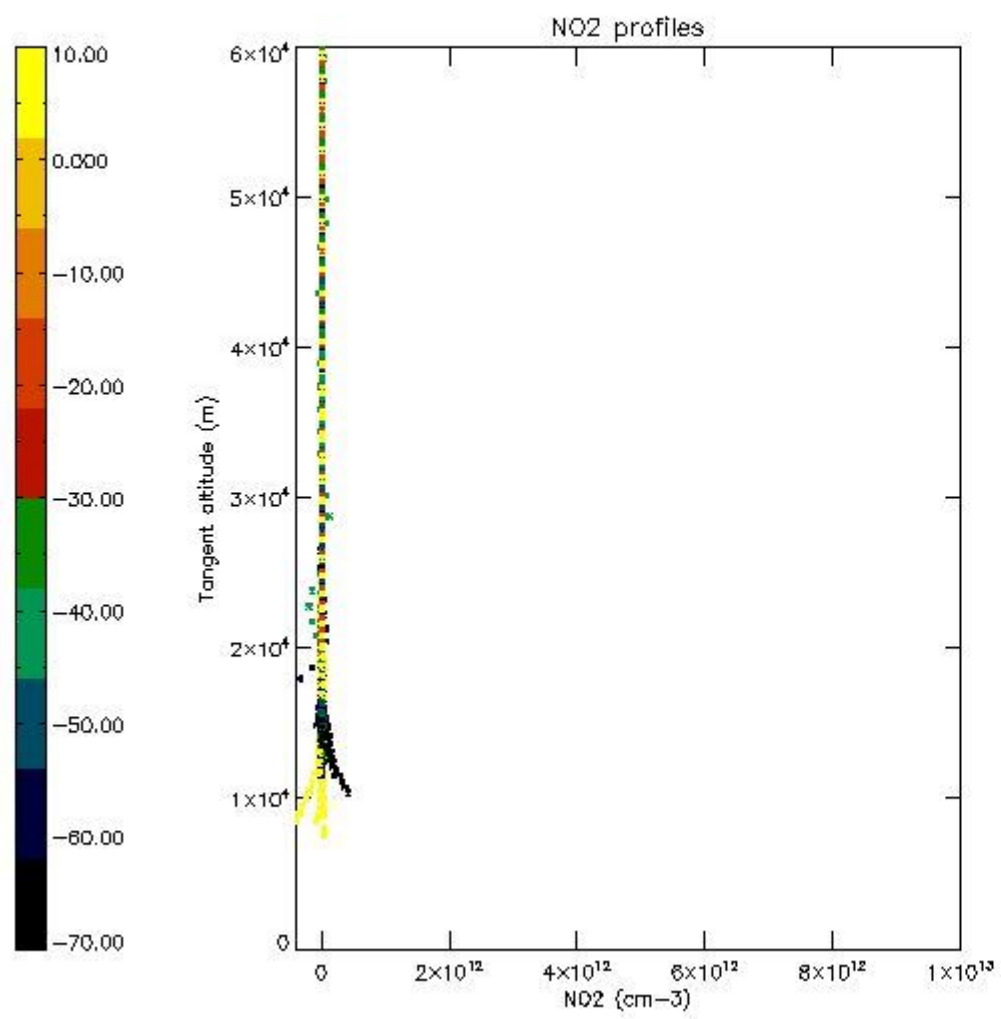
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



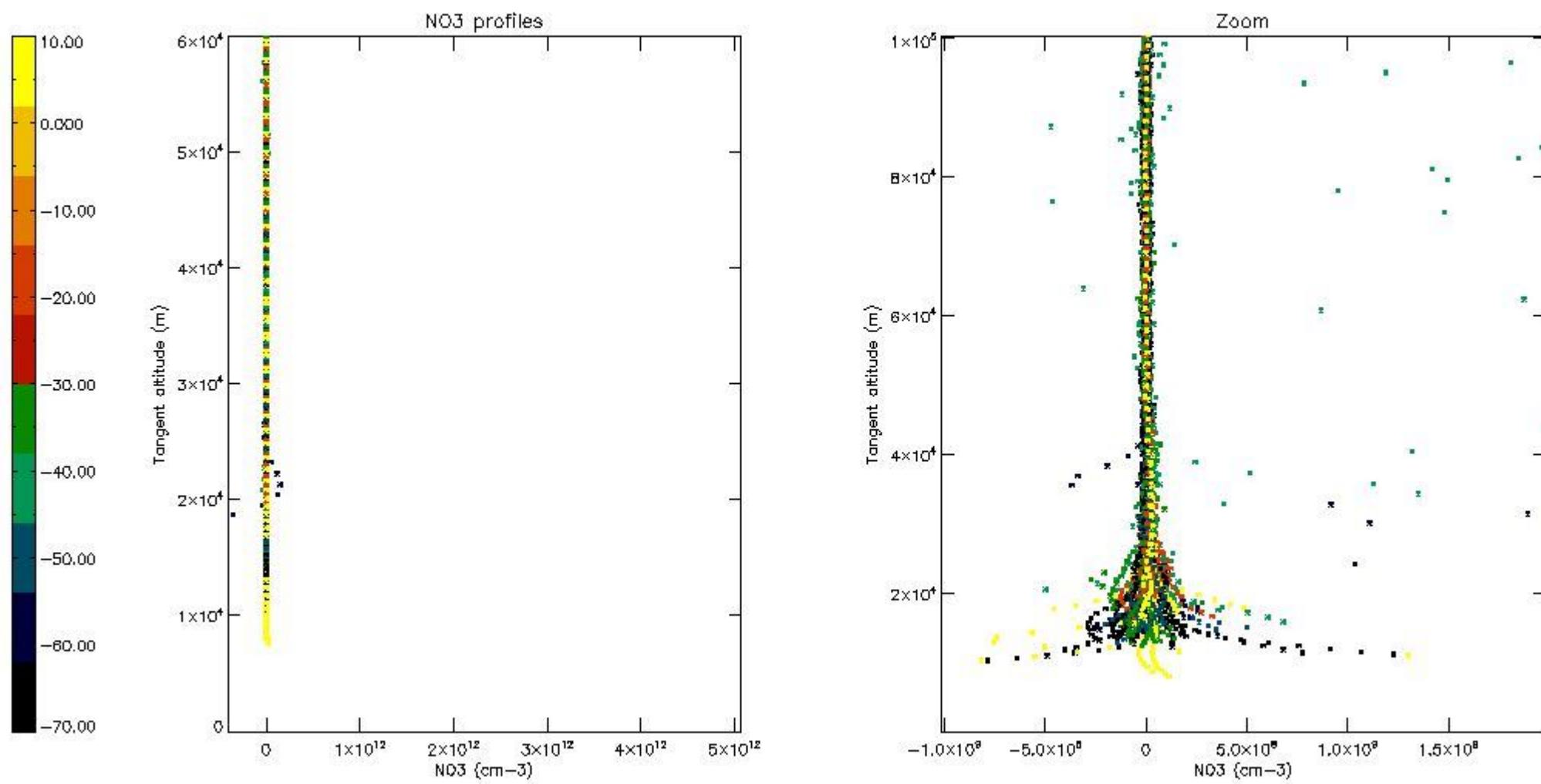
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



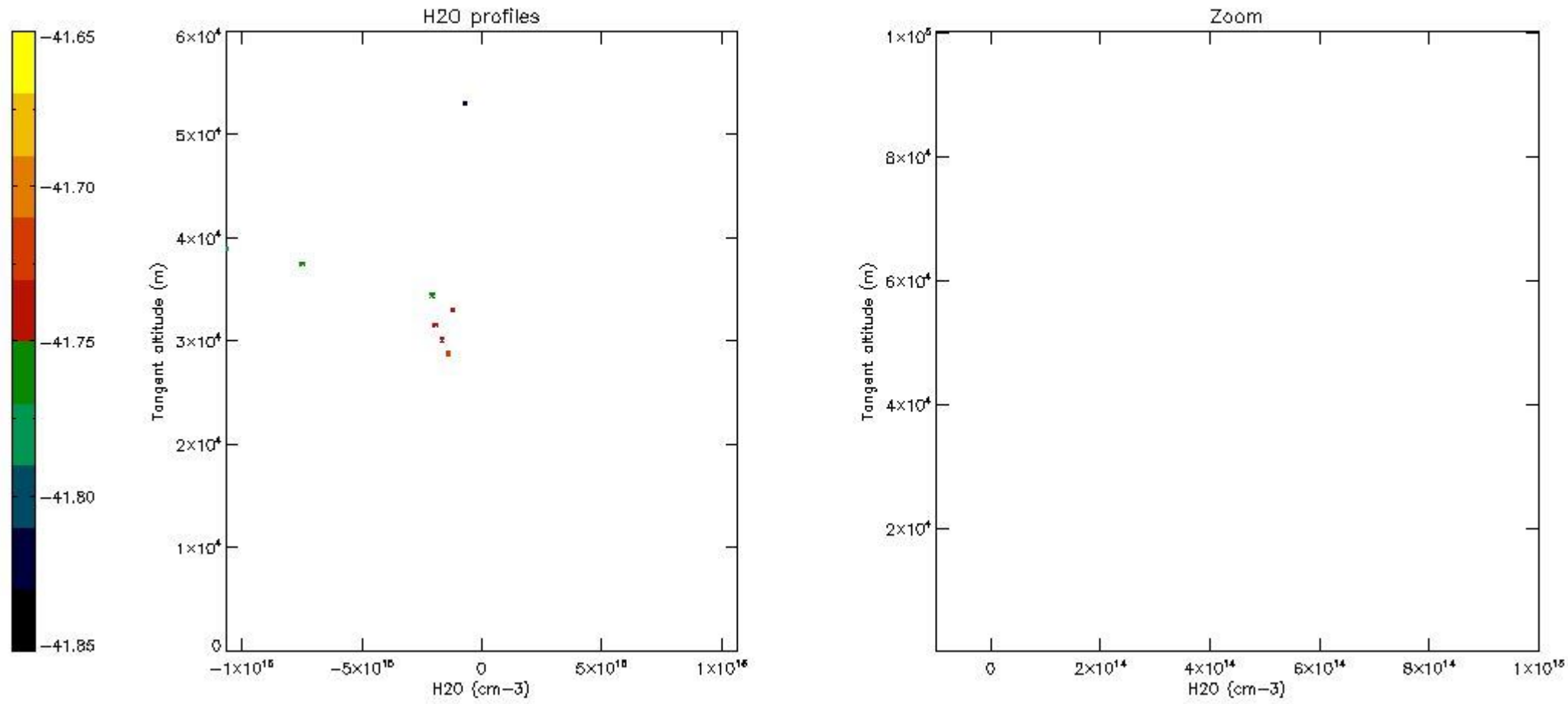
5.7 Plot NO3 profiles for all STD (dark without errors)

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	19-APR-2007 00:02:22
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-APR-2007 00:02:22
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-APR-2007 00:02:22

GOMOS Level 2 Daily Report

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[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% \(dark without errors\)](#)

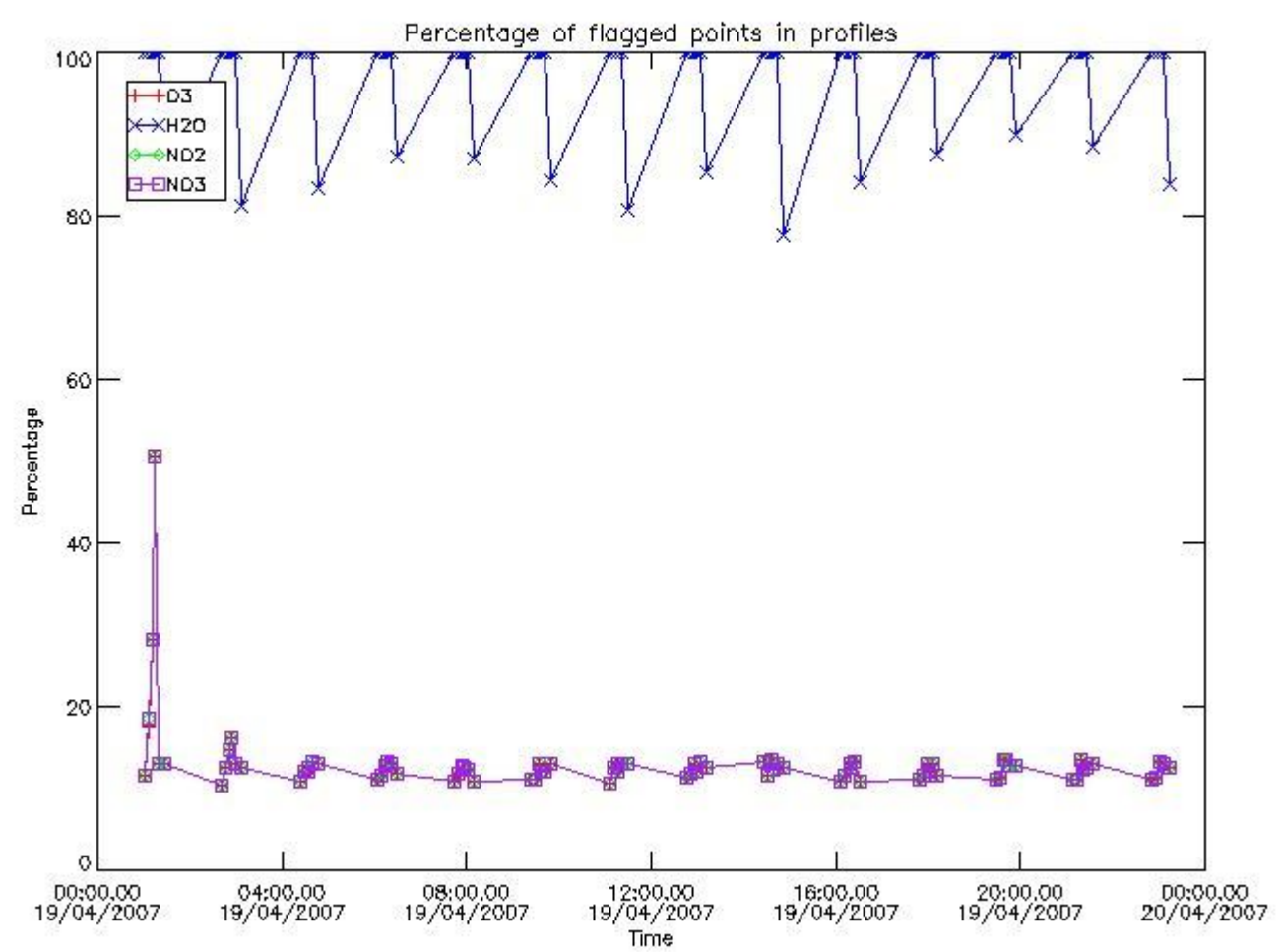
[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

[5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

[5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

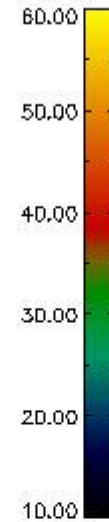
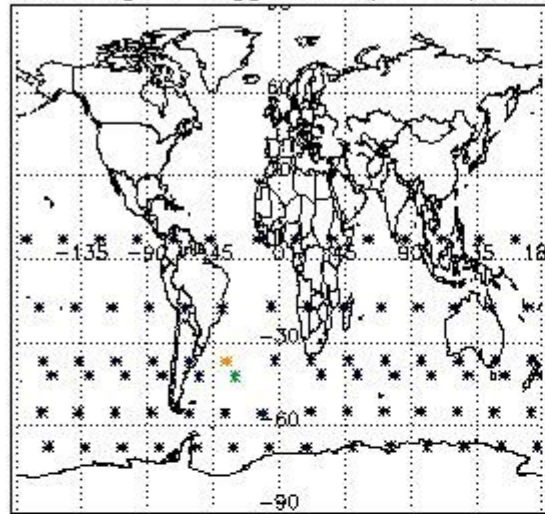
[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

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

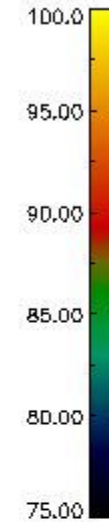
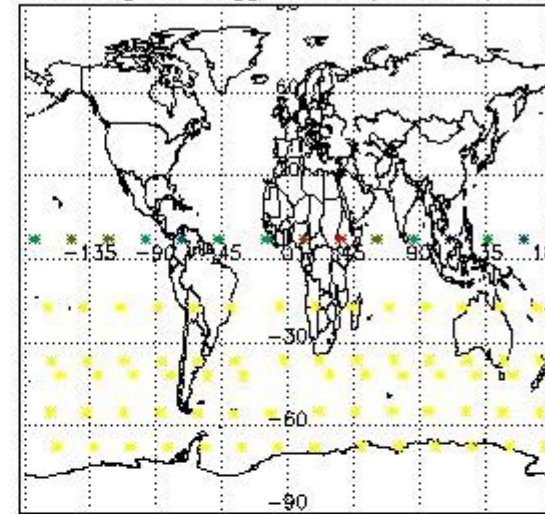


3.2 Plot quality information per product (world map)

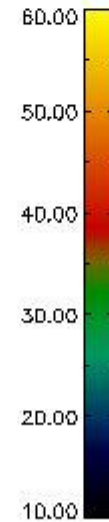
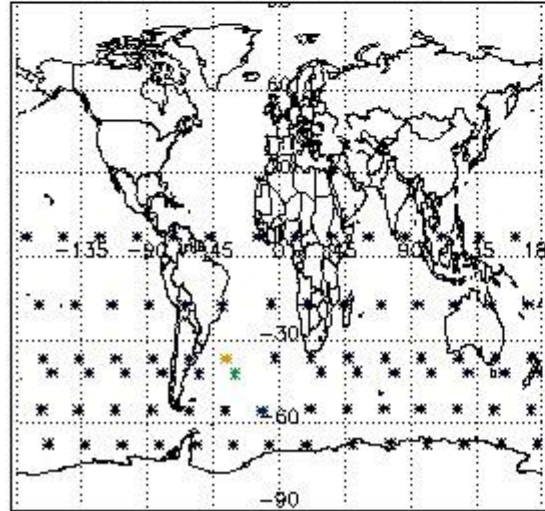
Percentage of flagged data per O3 profile



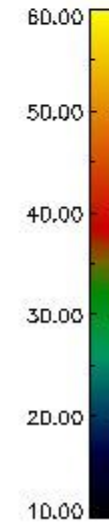
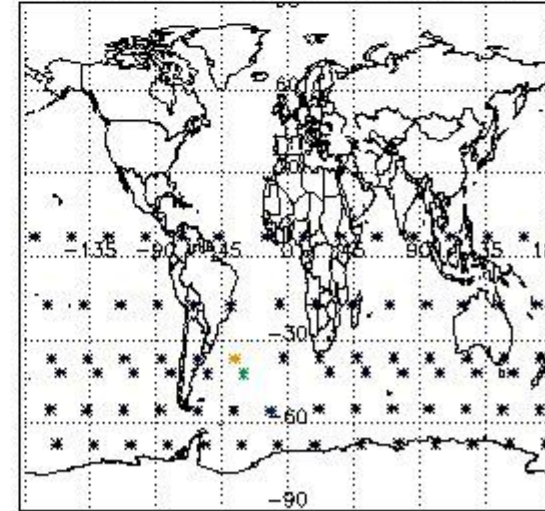
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

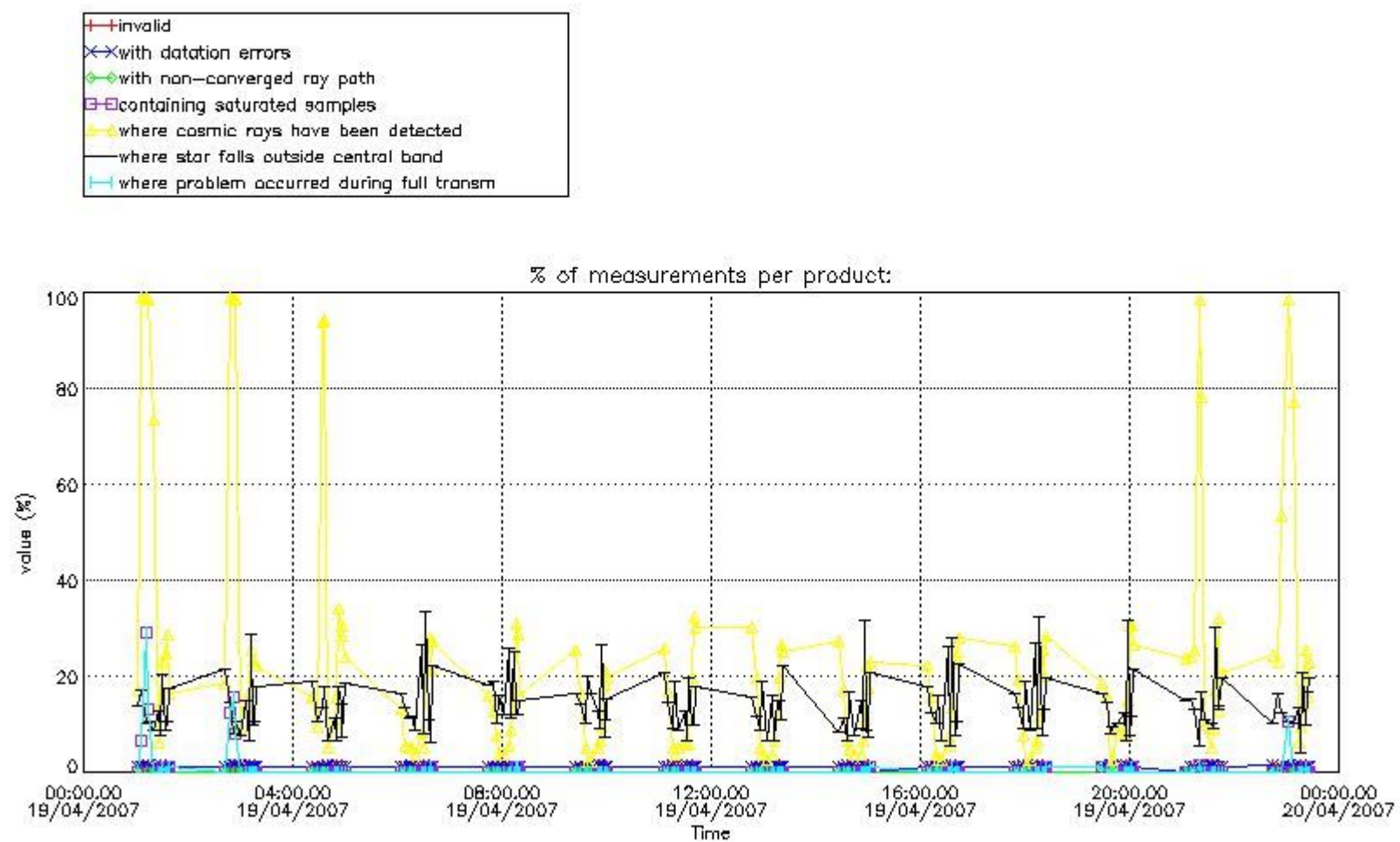


4. Level 1 quality information per product

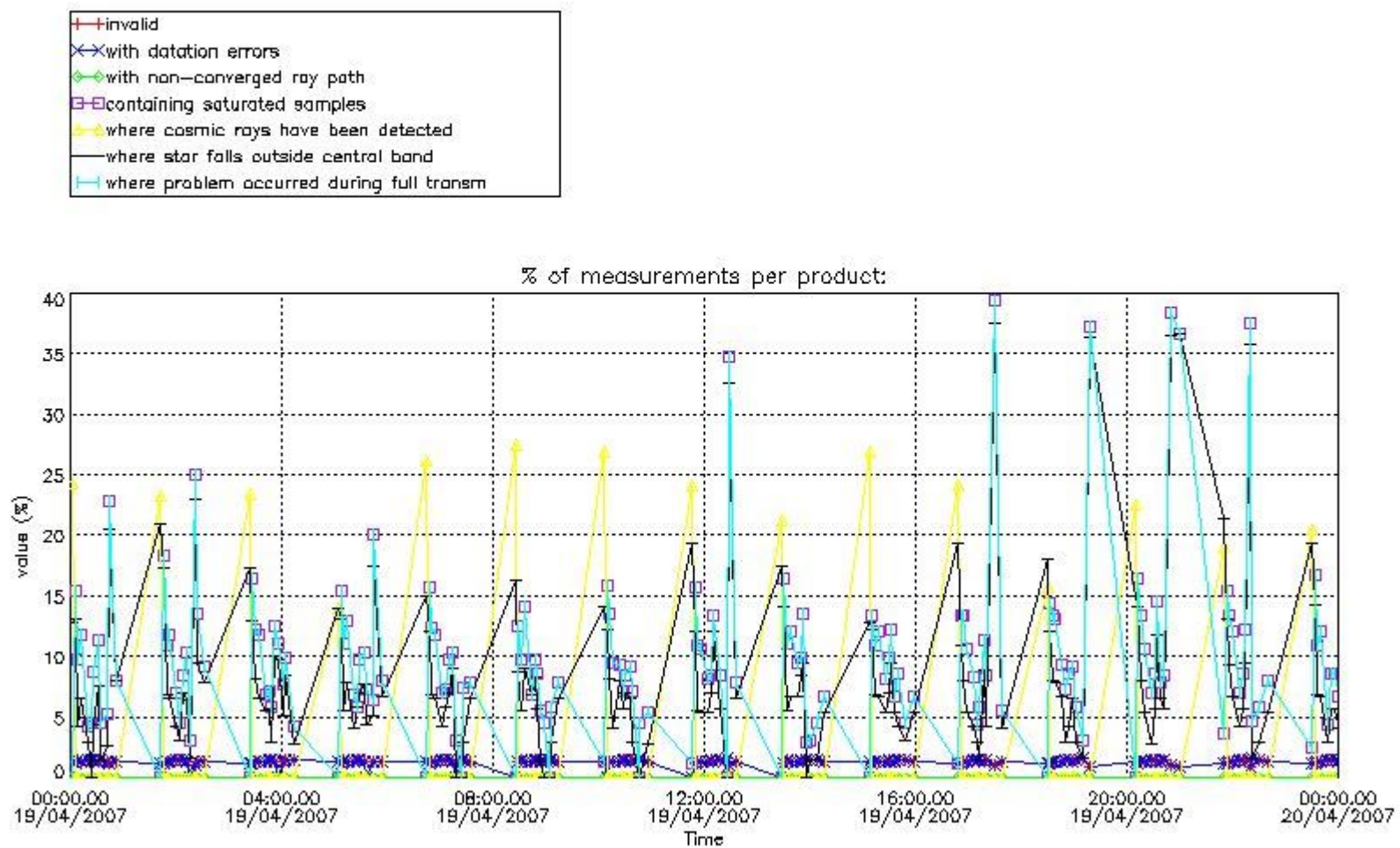
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

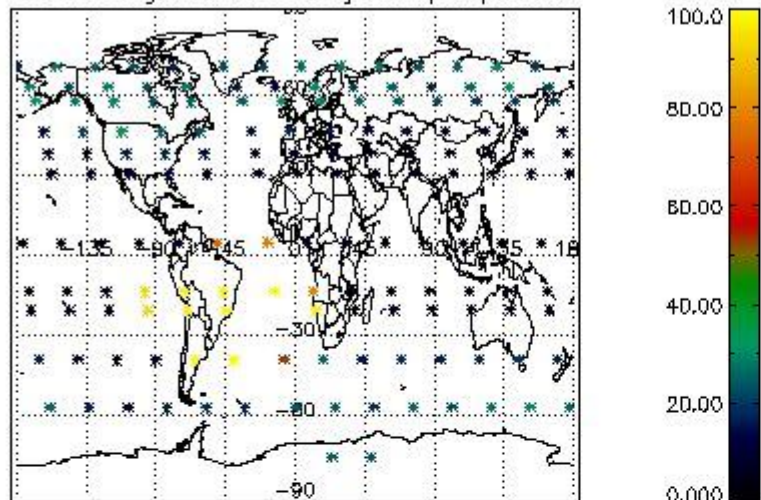


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

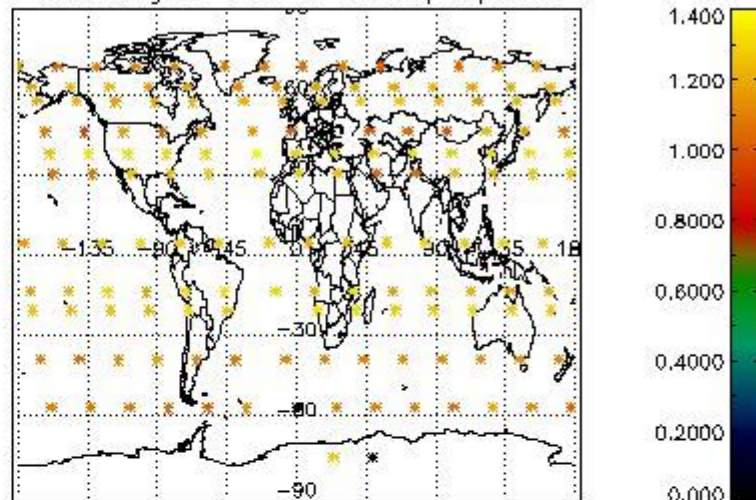


4.2 Plot quality information per product coming from level 1b processing (world map)
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

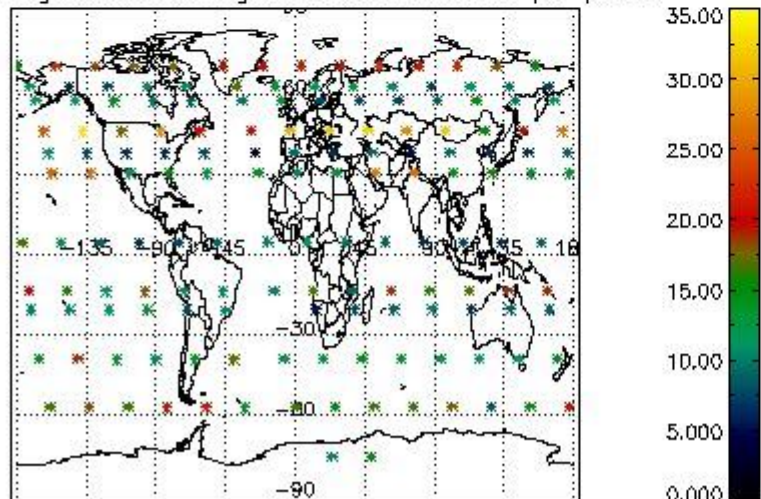
Percentage of cosmic ray hits per profile



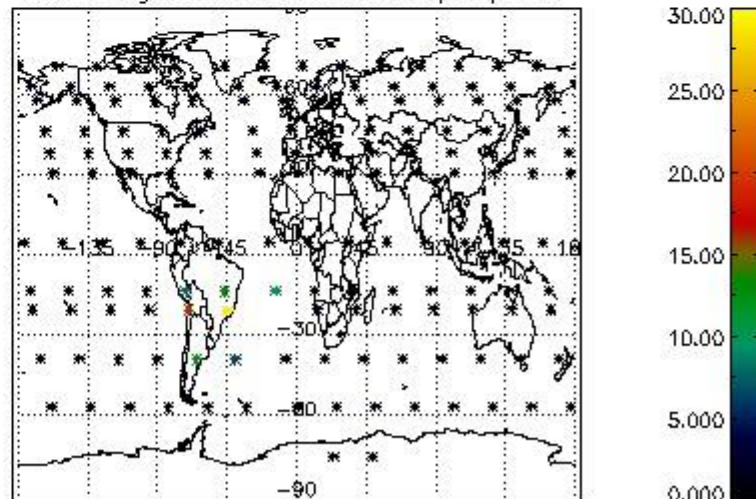
Percentage of datation errors per profile



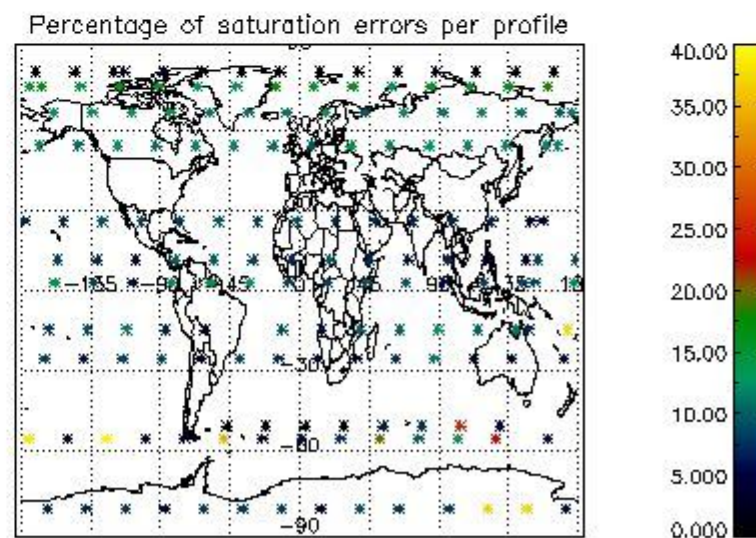
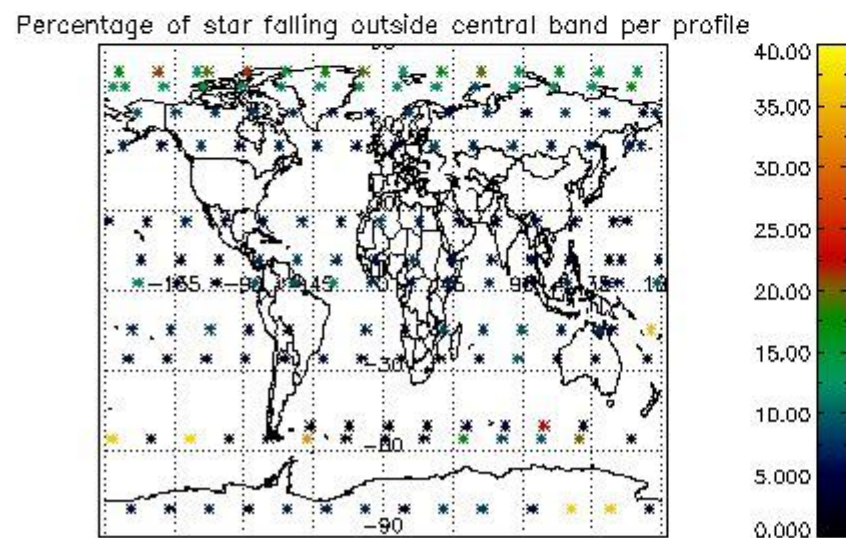
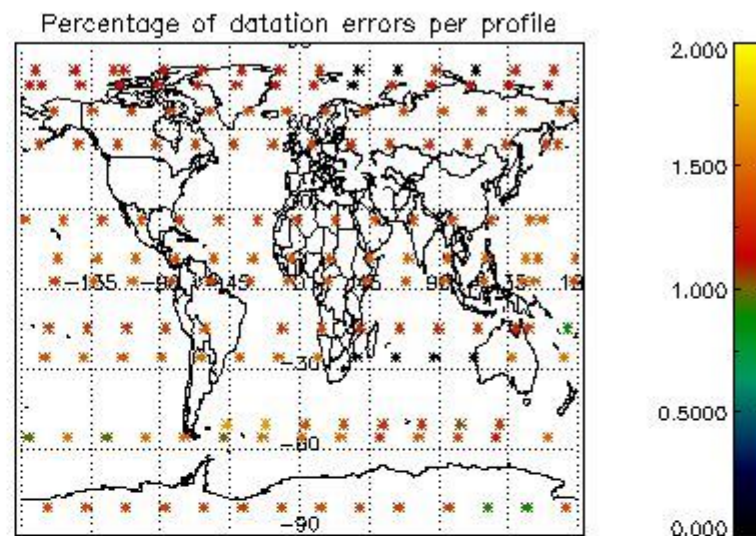
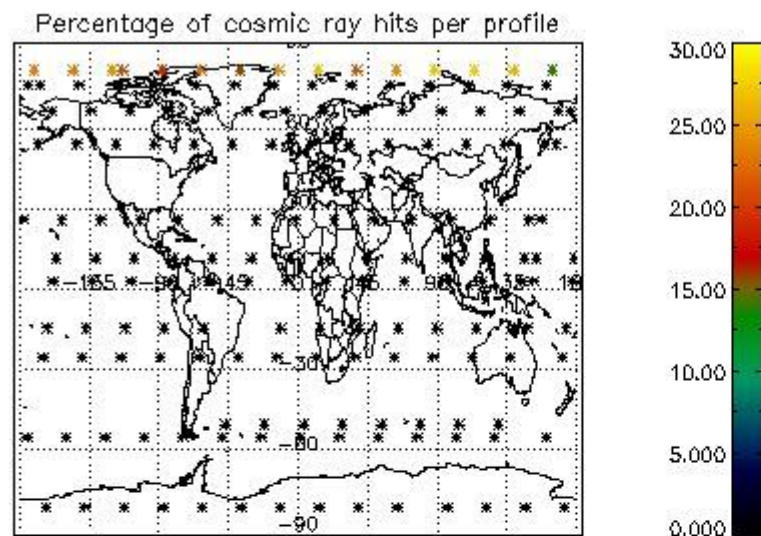
Percentage of star falling outside central band per profile



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

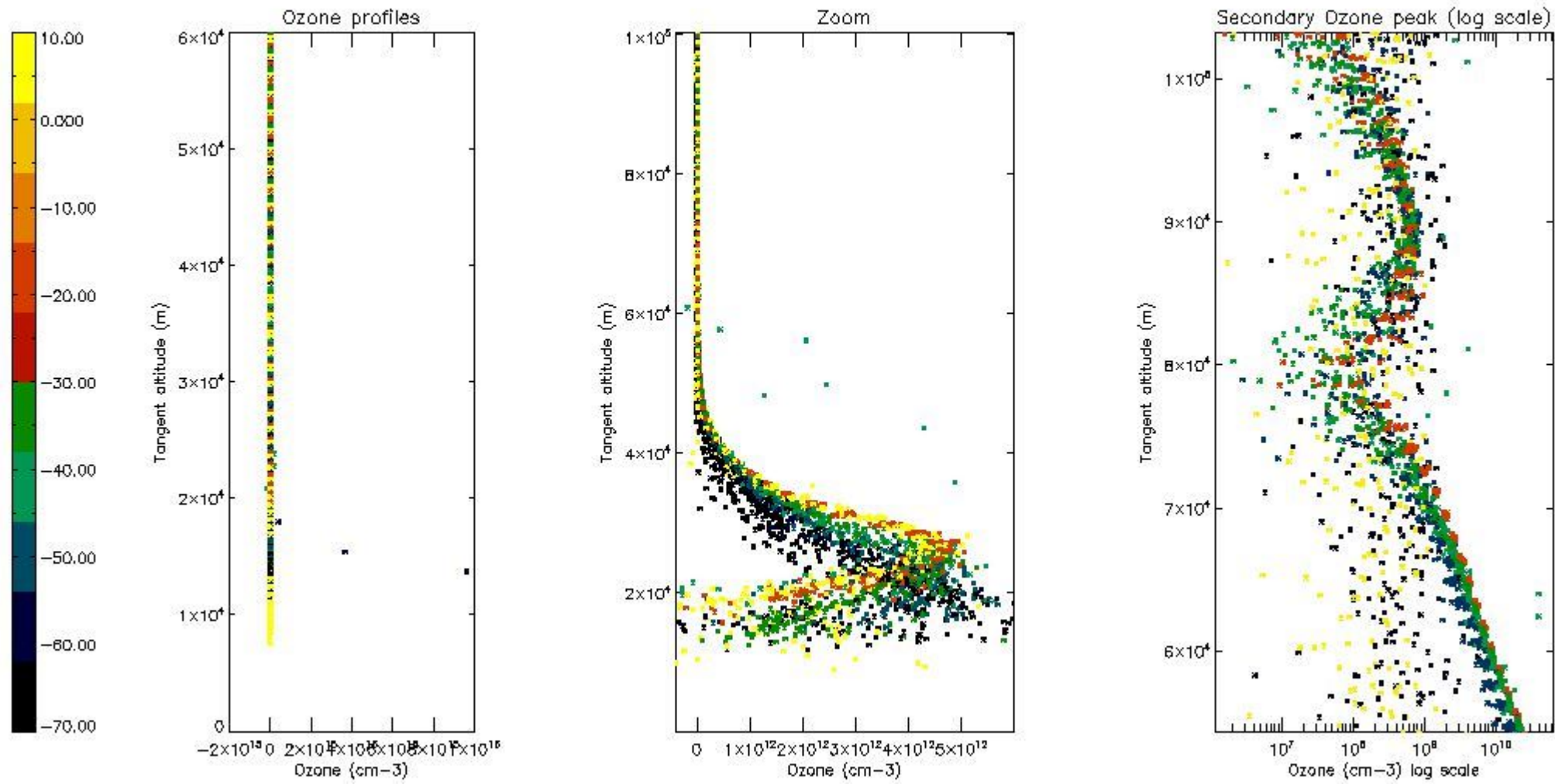
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	13

STD < 10	9
STD < 5	5

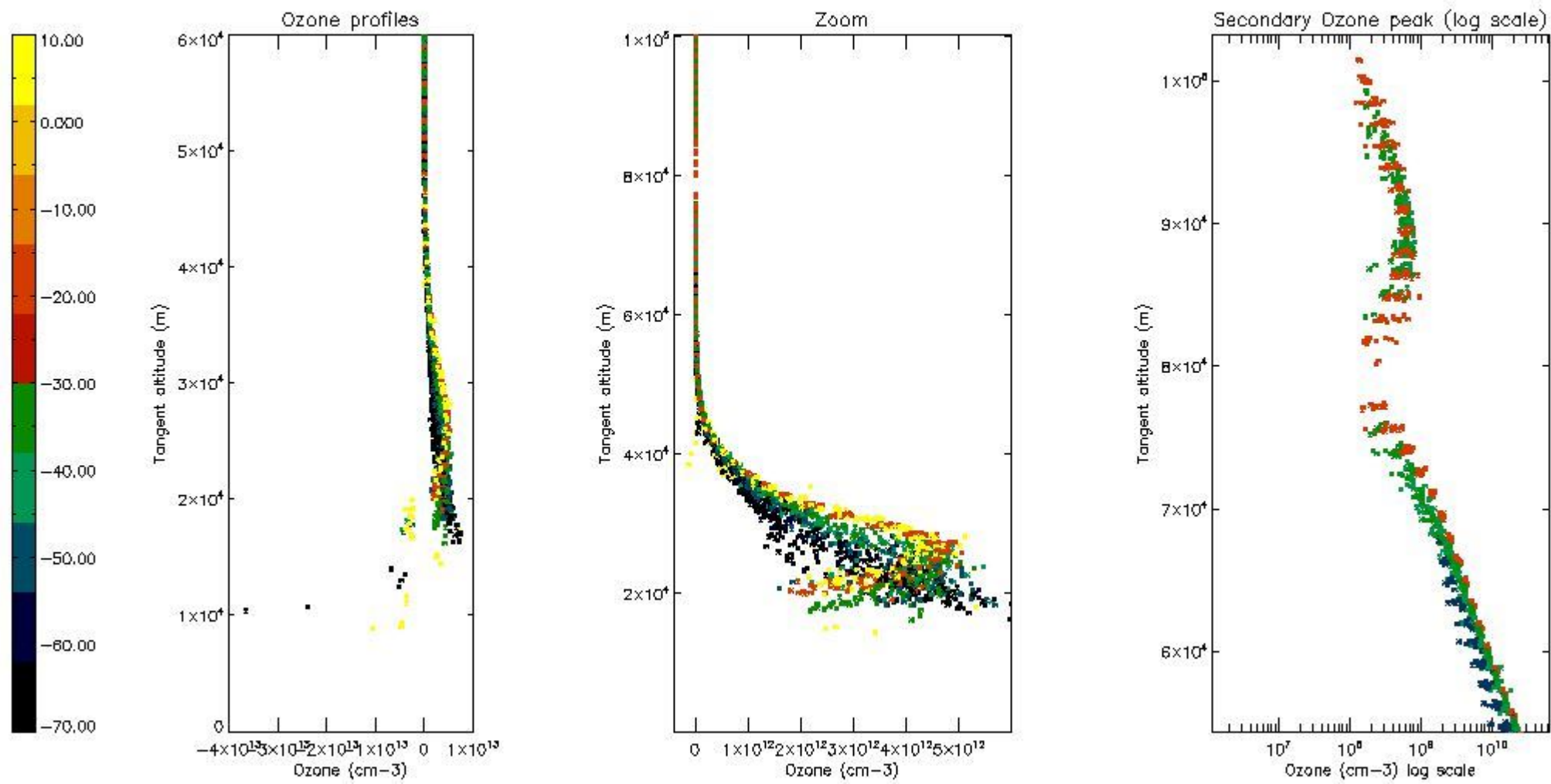
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



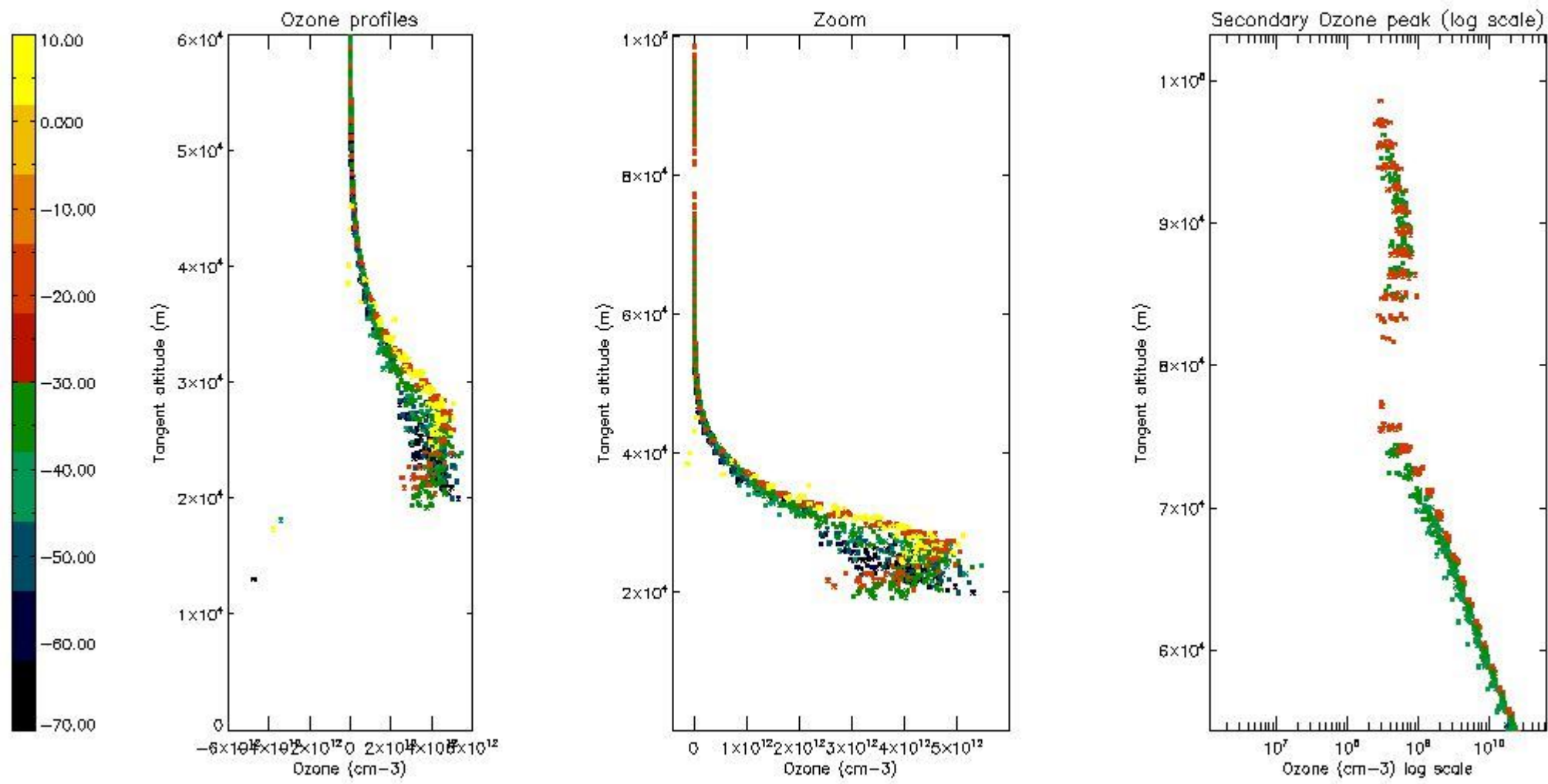
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



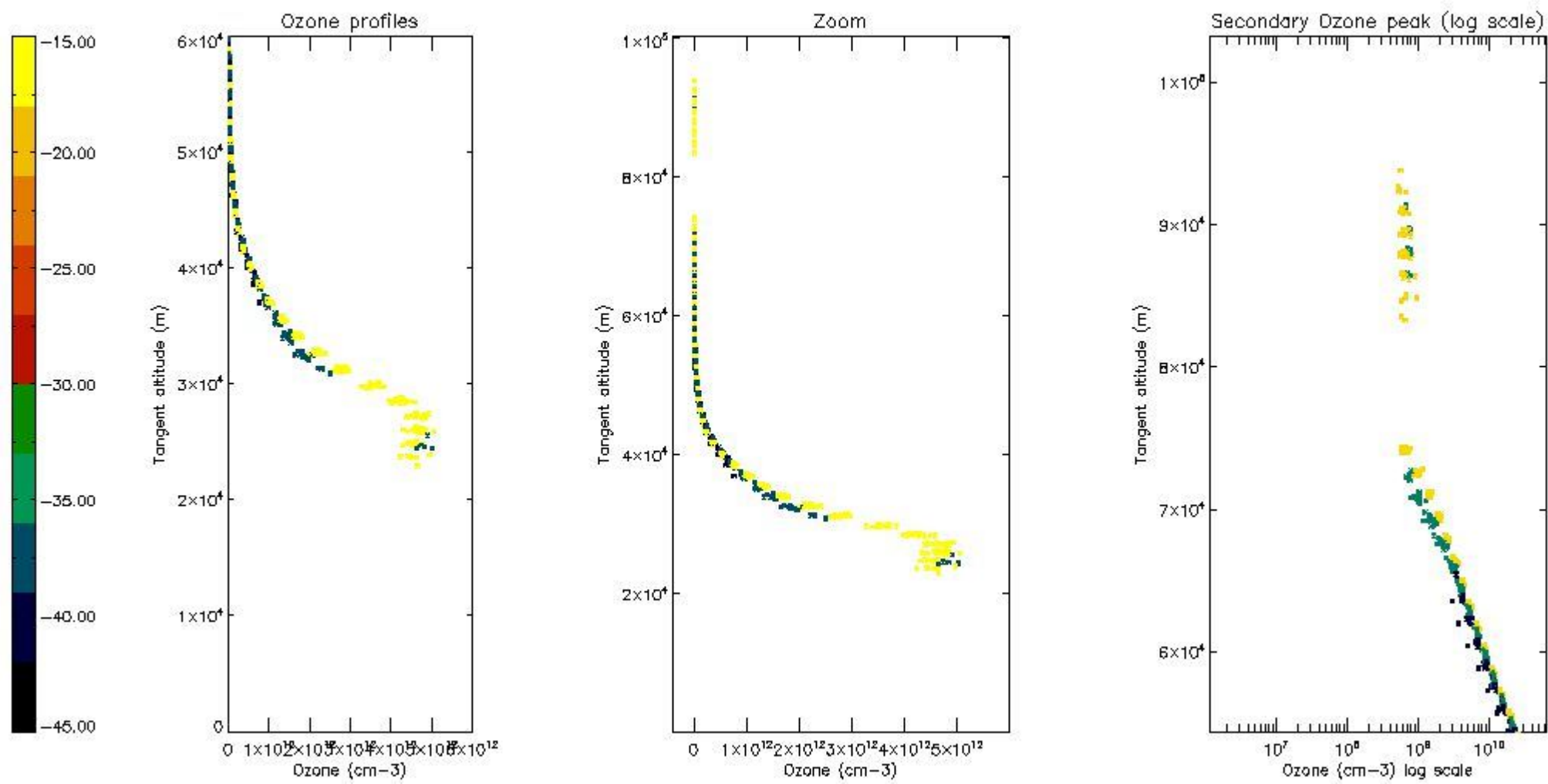
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



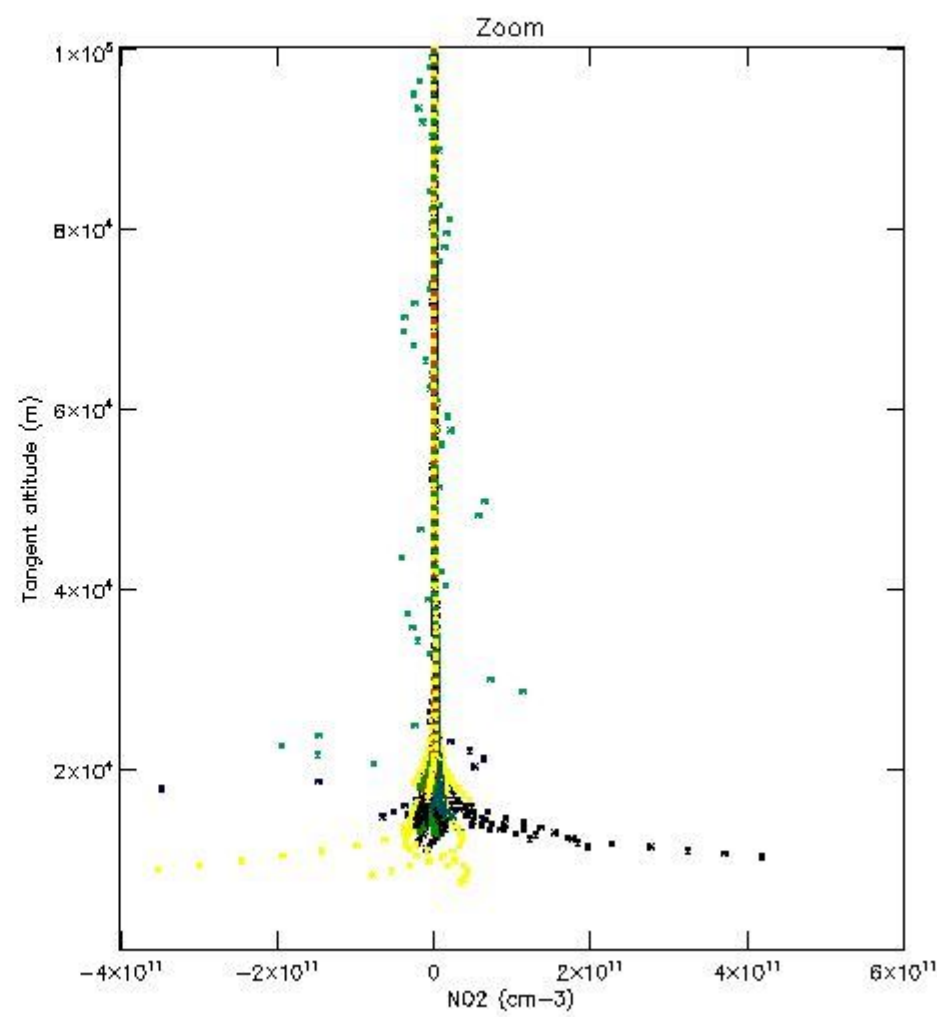
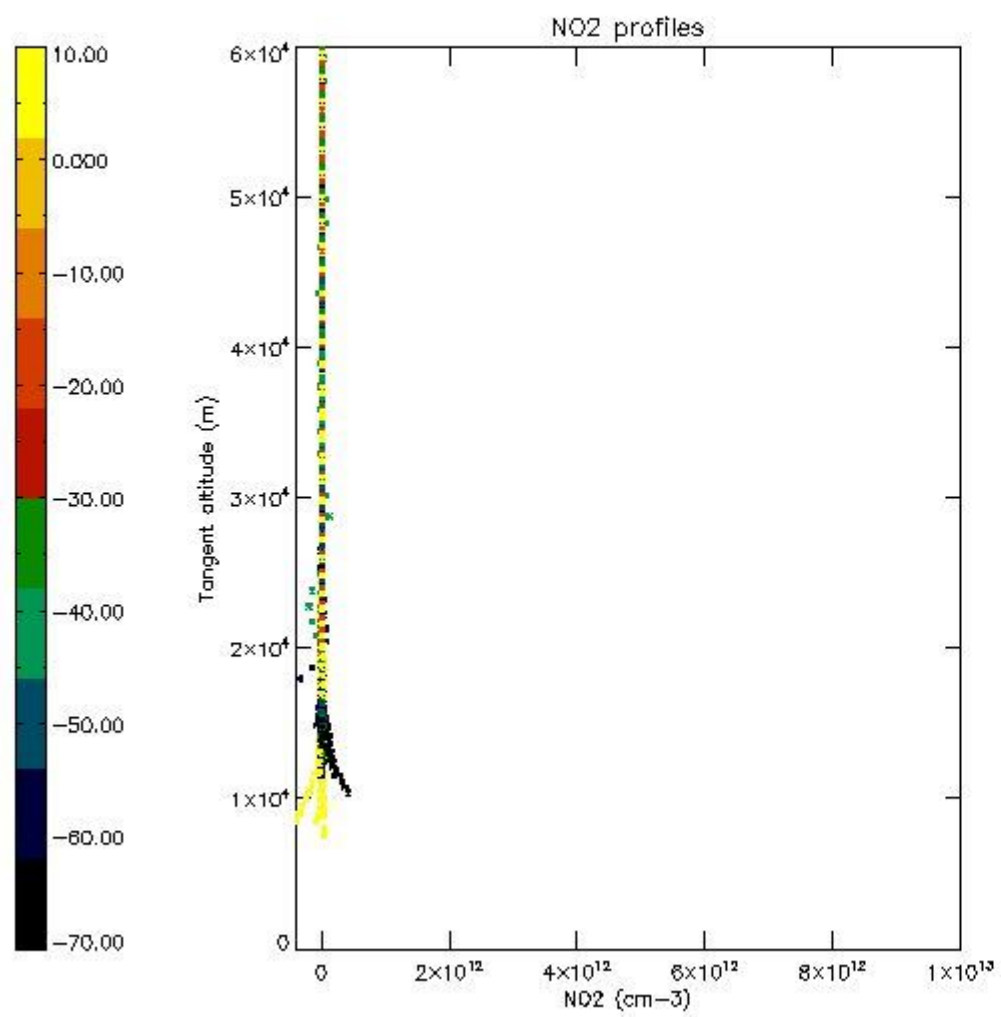
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



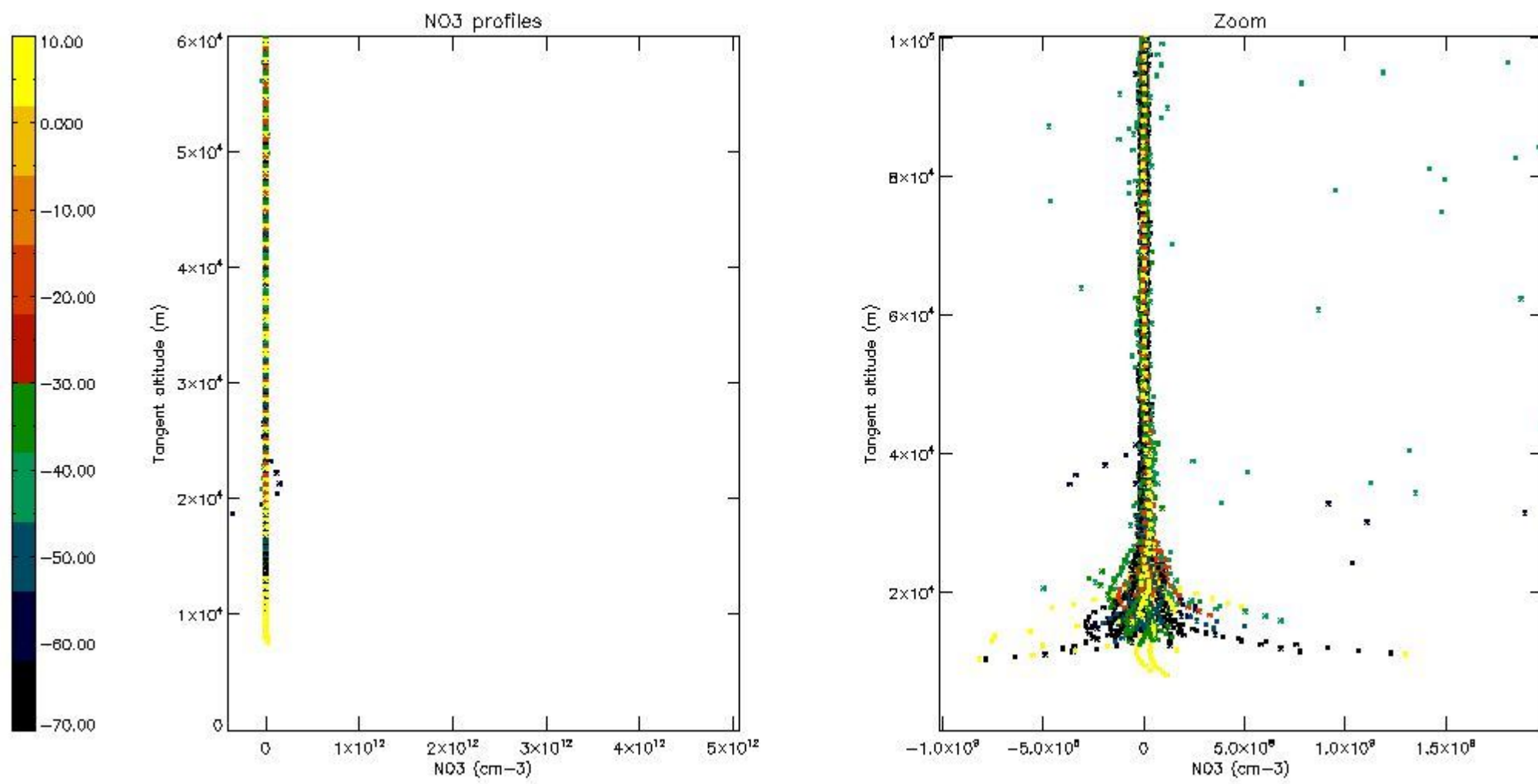
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



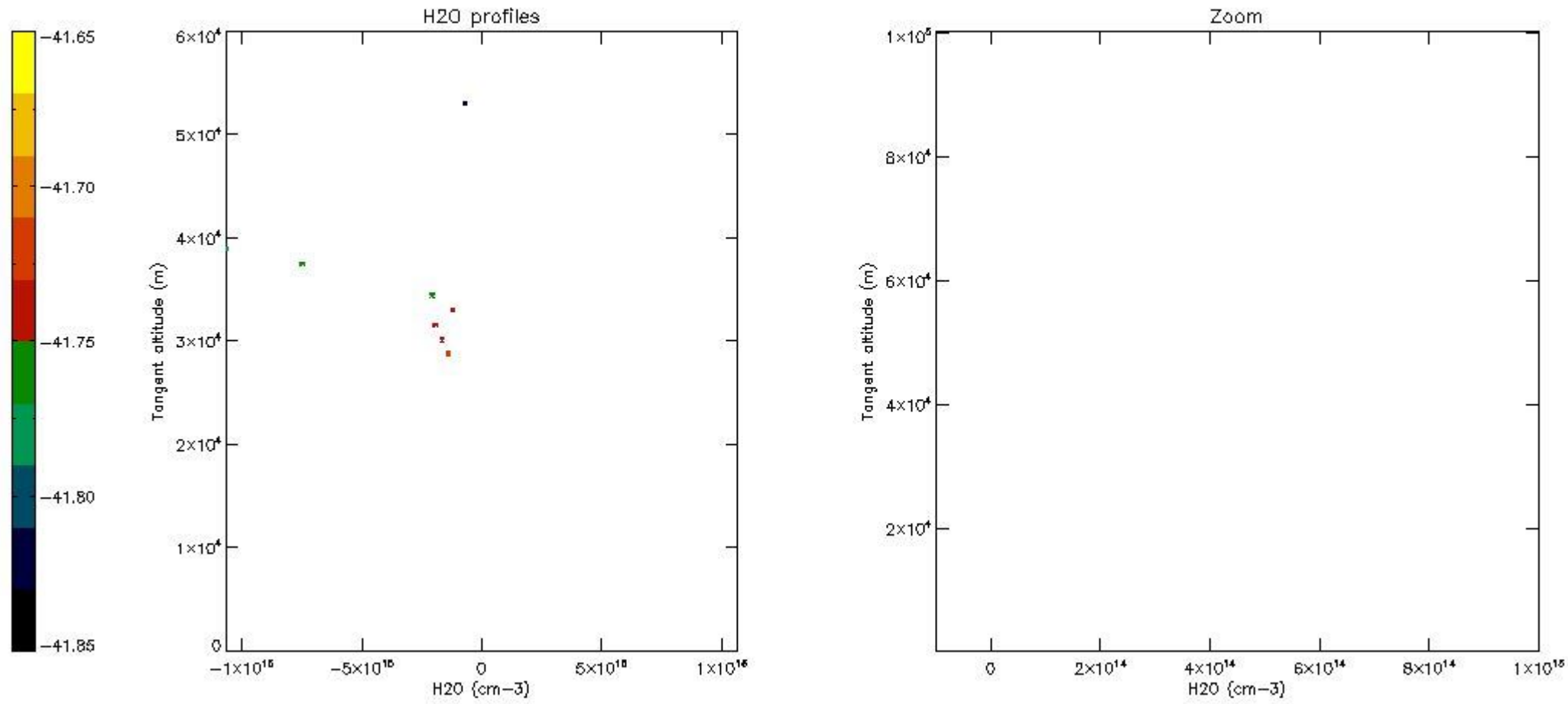
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

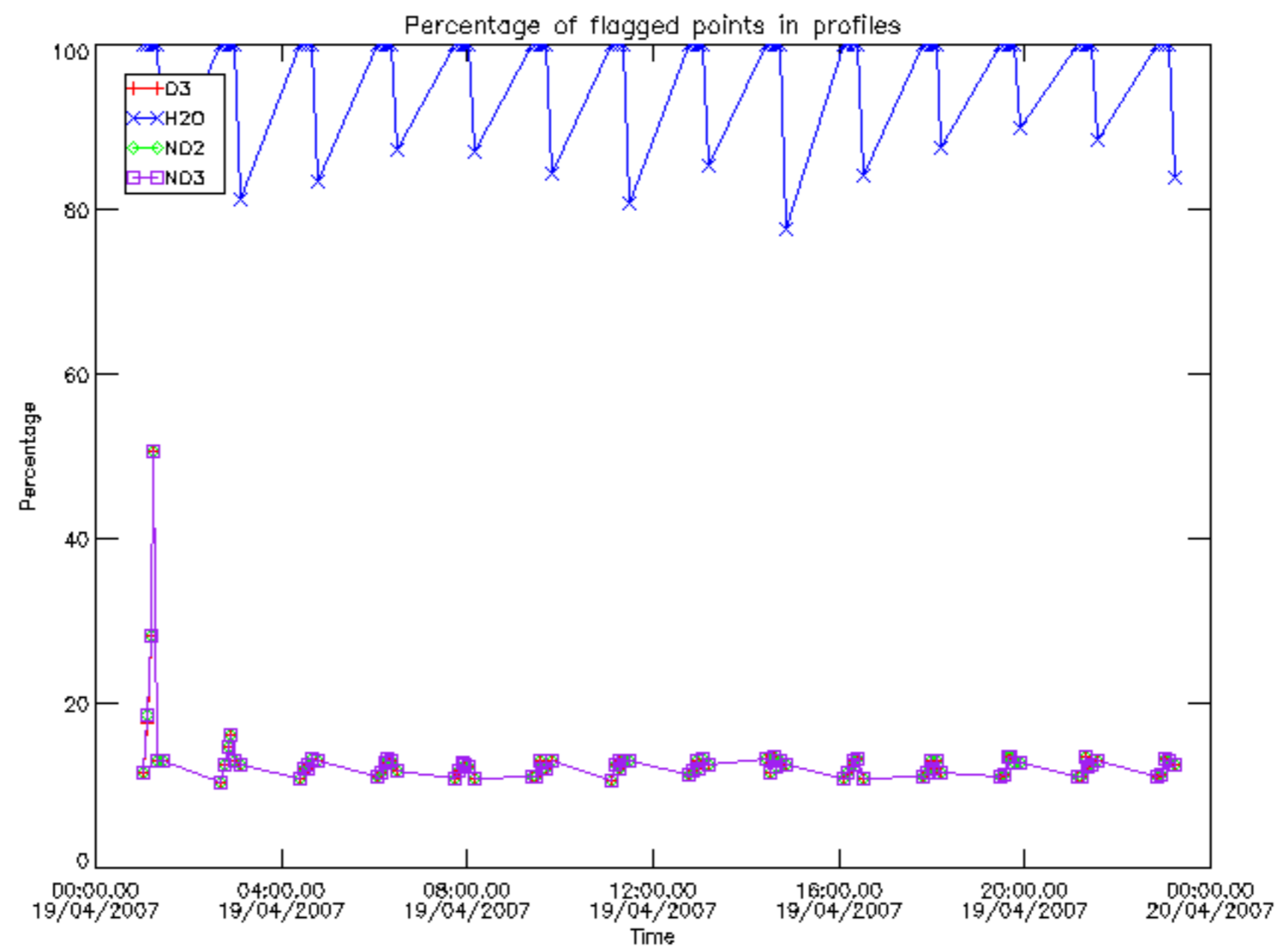
The colorbar represents the latitude.



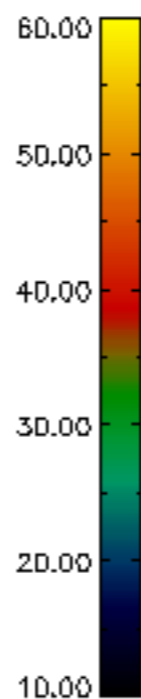
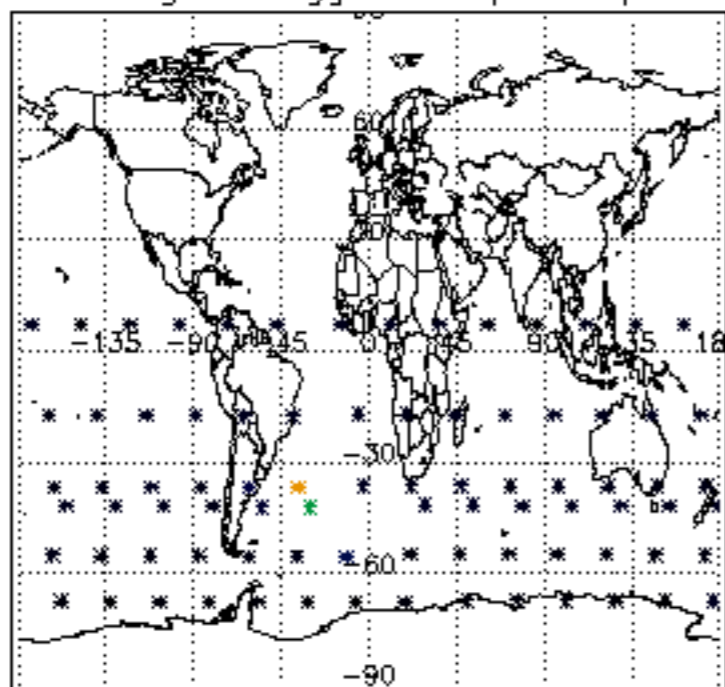
6. Auxiliary Data Files used for the production reported in section 2

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.

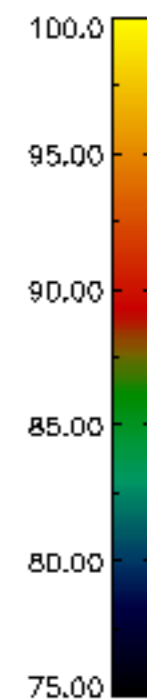
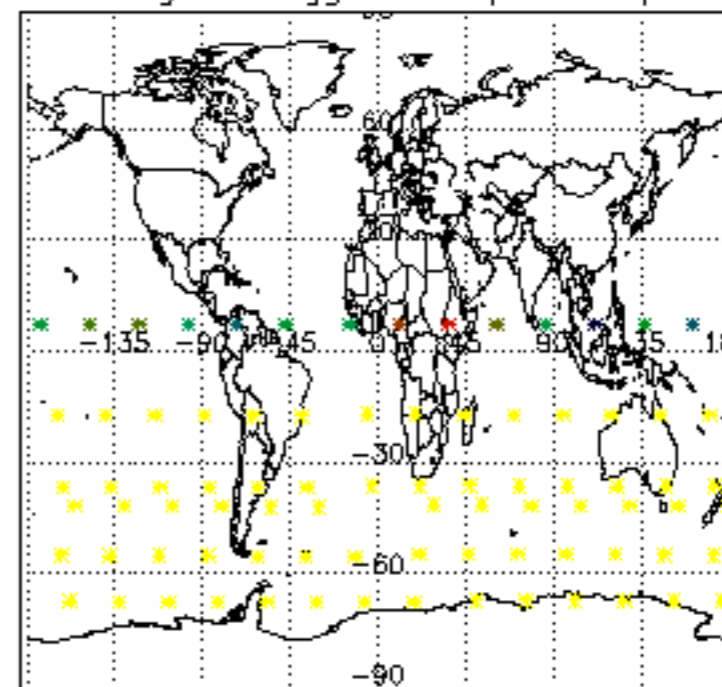
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	19-APR-2007 00:02:22
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-APR-2007 00:02:22
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-APR-2007 00:02:22



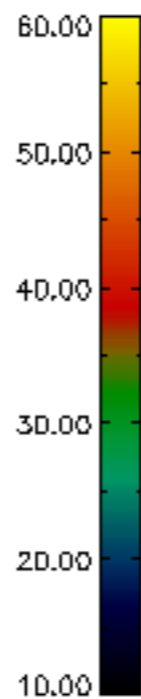
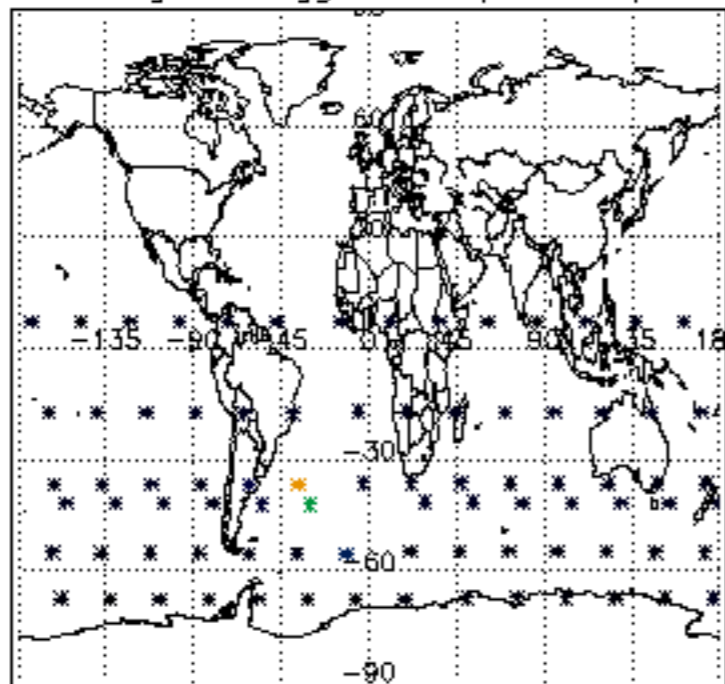
Percentage of flagged data per D3 profile



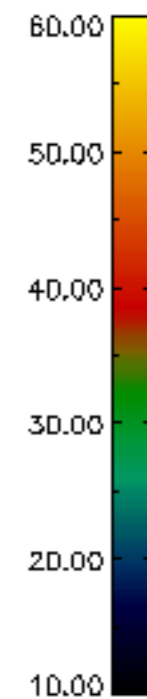
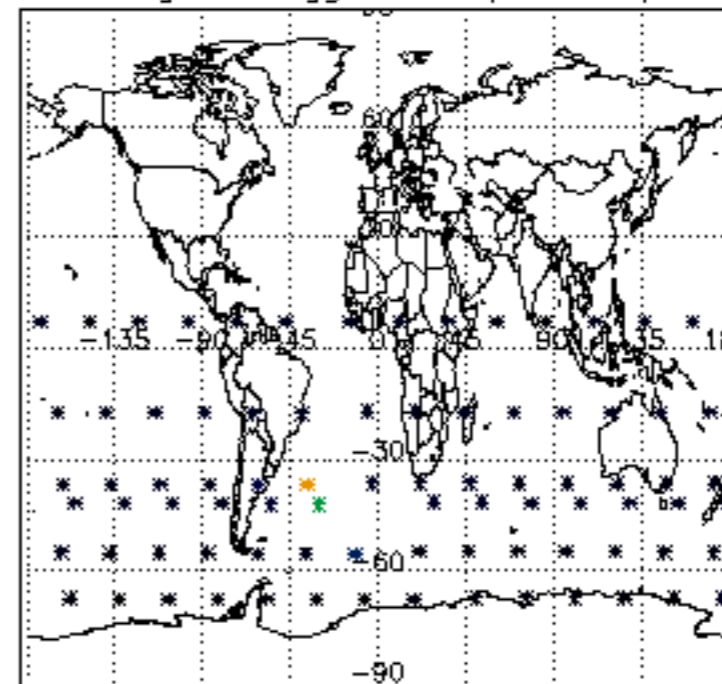
Percentage of flagged data per H2O profile

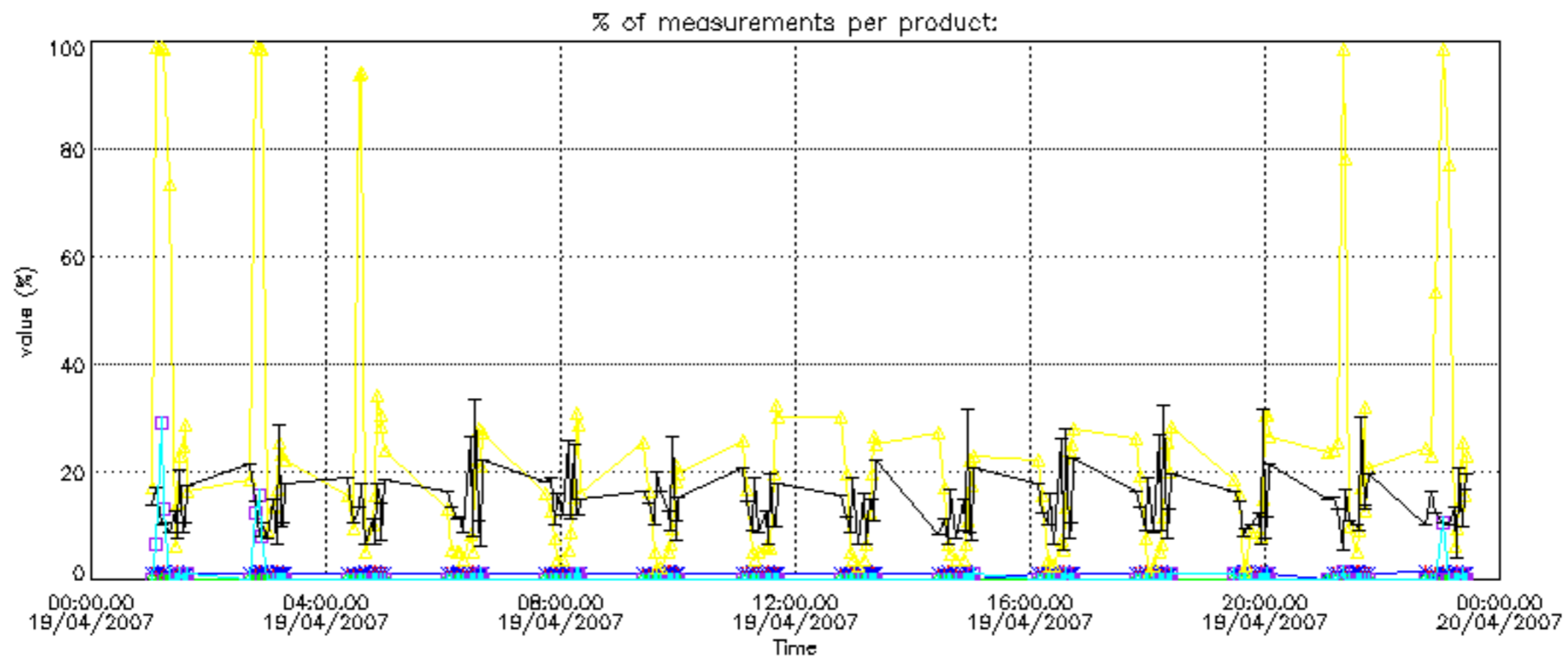
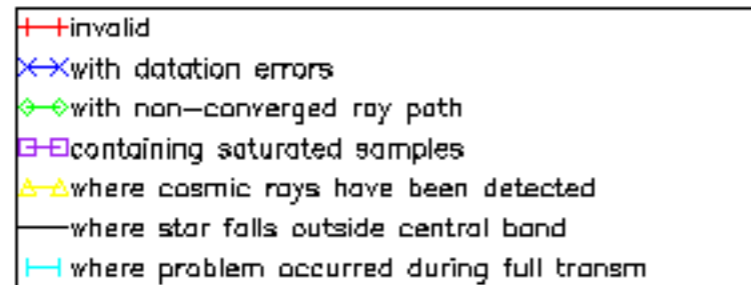


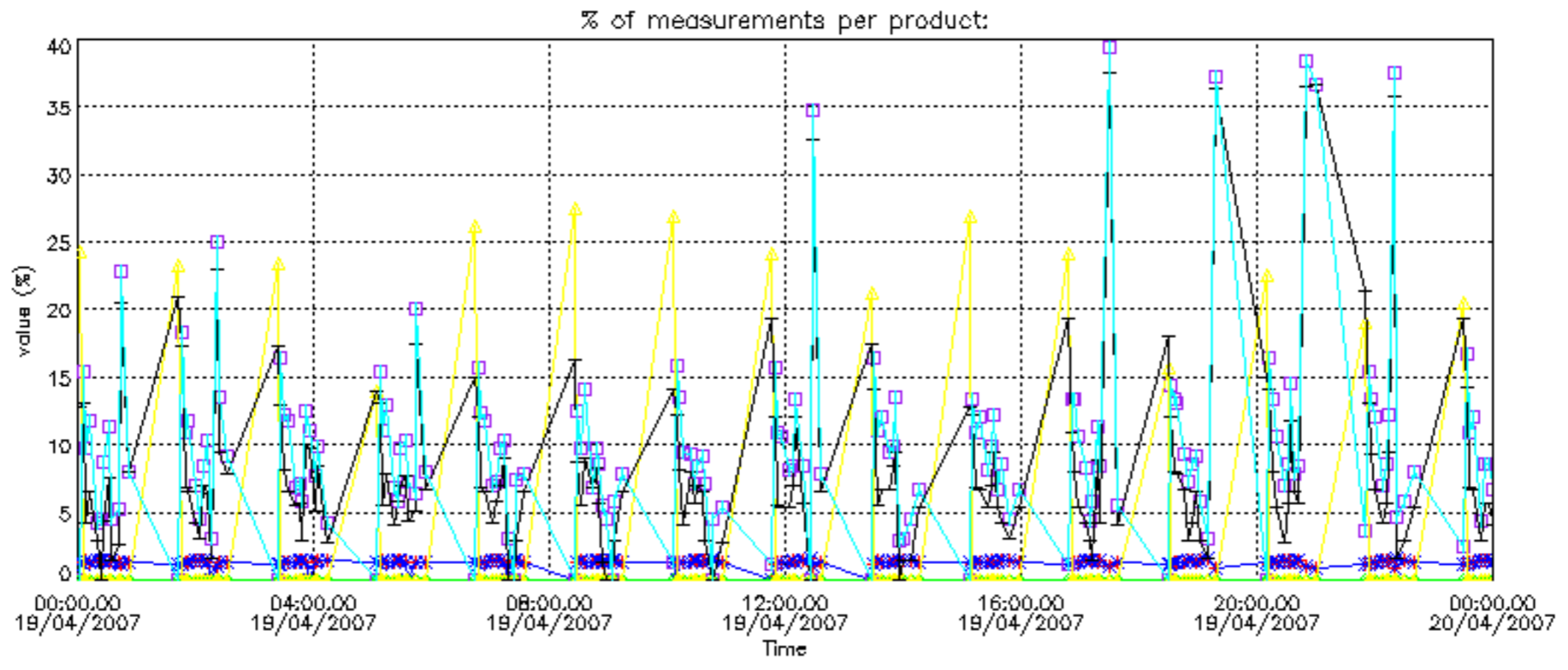
Percentage of flagged data per NO2 profile



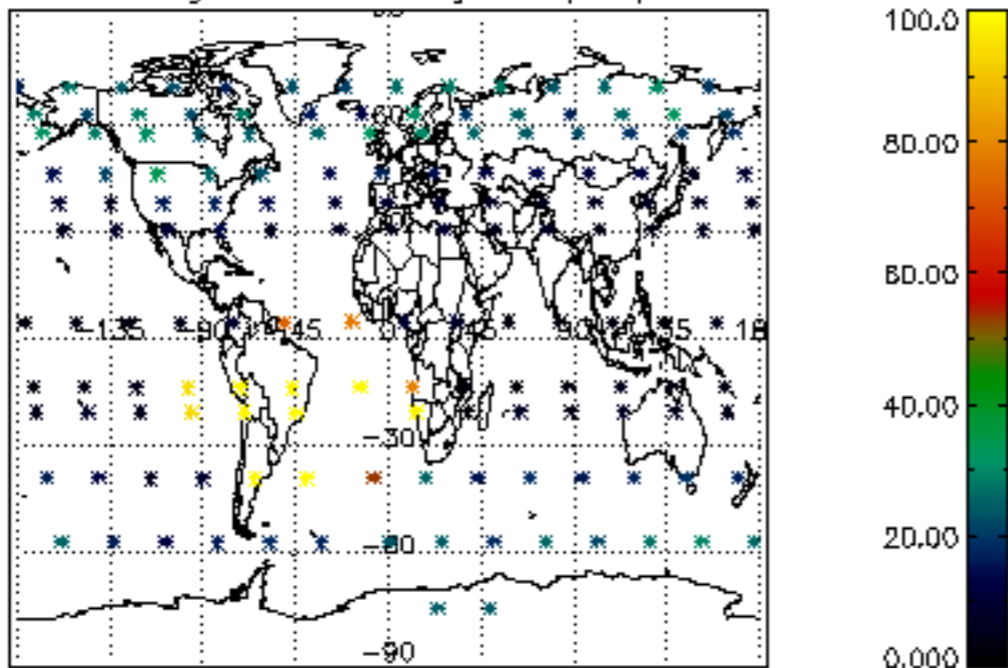
Percentage of flagged data per NO3 profile



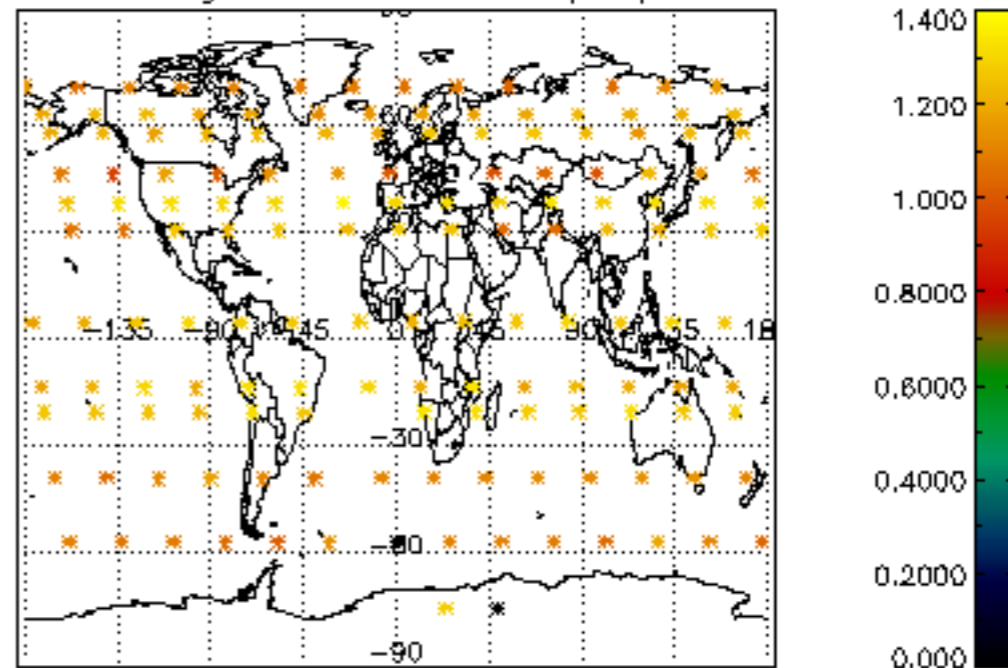




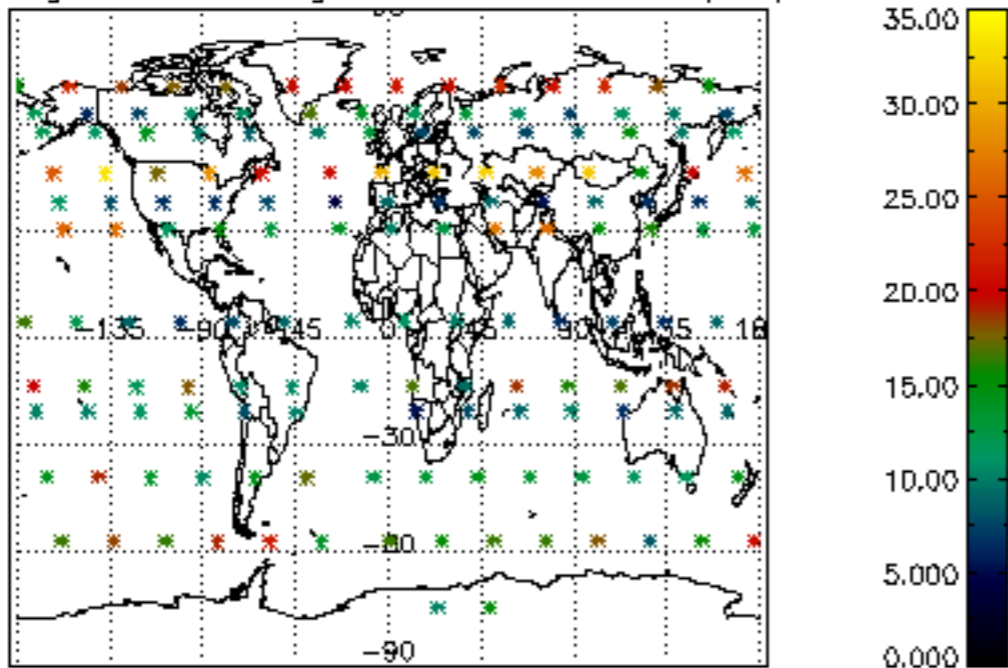
Percentage of cosmic ray hits per profile



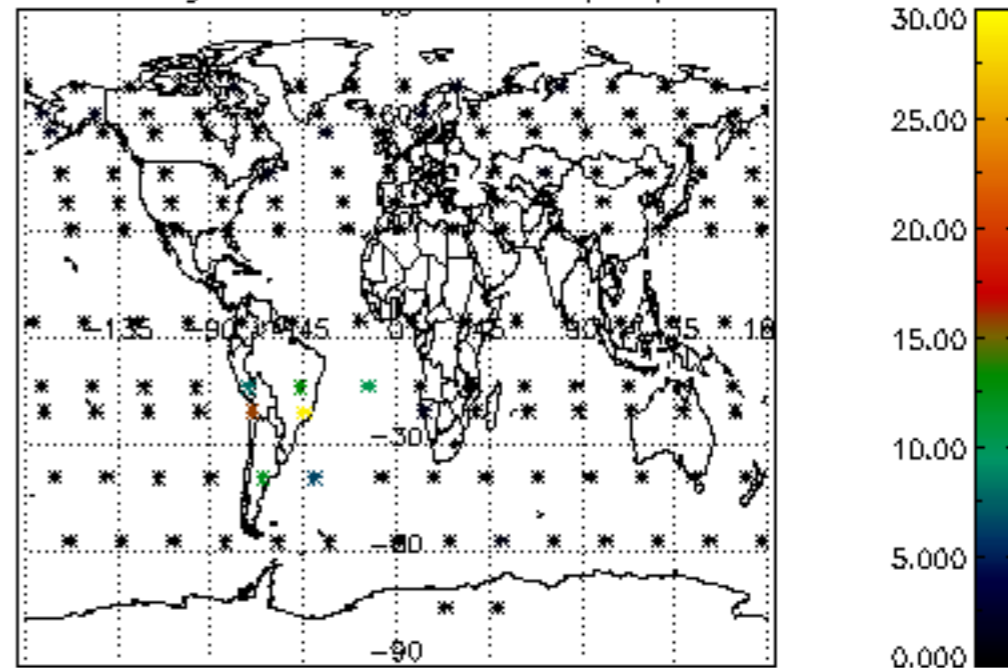
Percentage of datation errors per profile



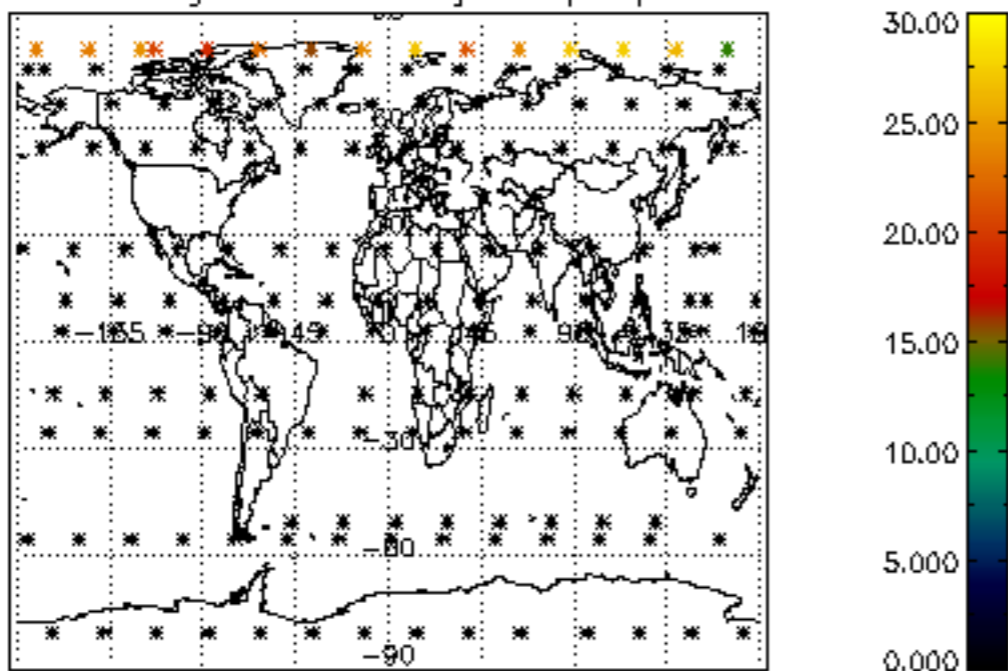
Percentage of star falling outside central band per profile



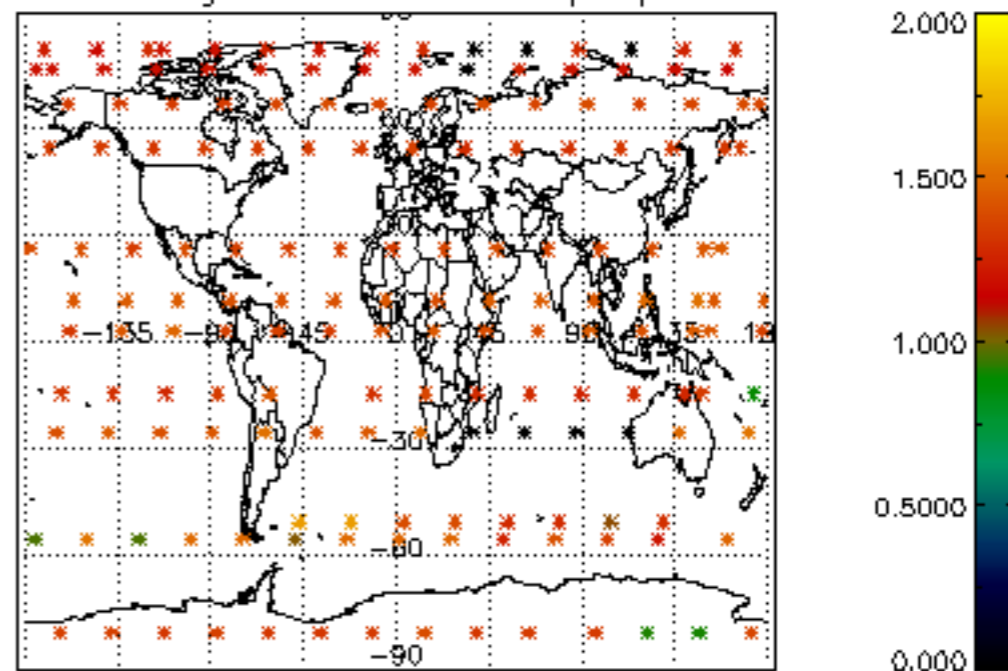
Percentage of saturation errors per profile



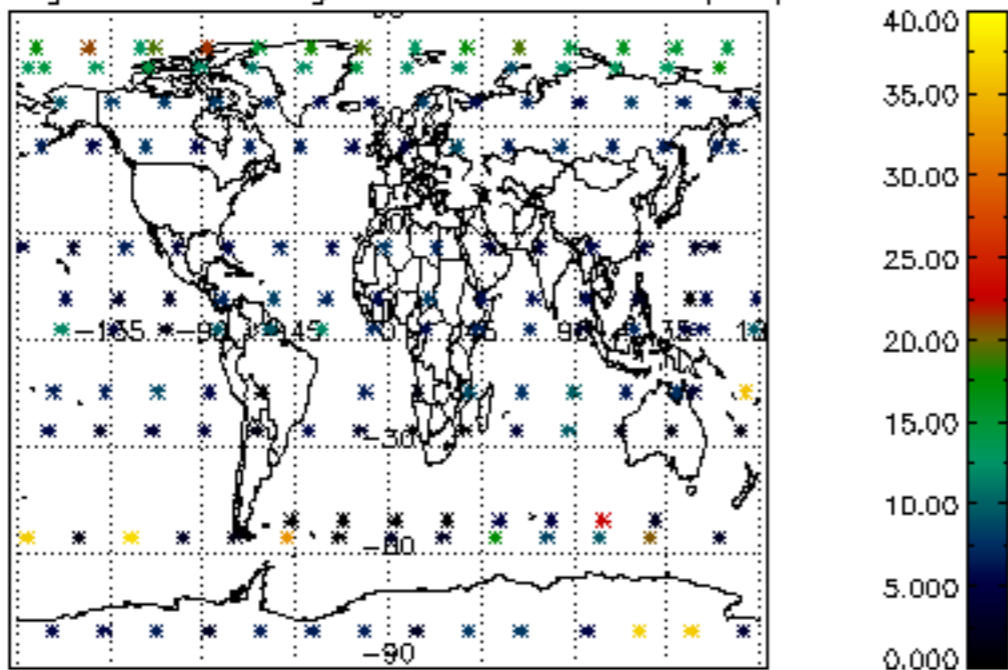
Percentage of cosmic ray hits per profile



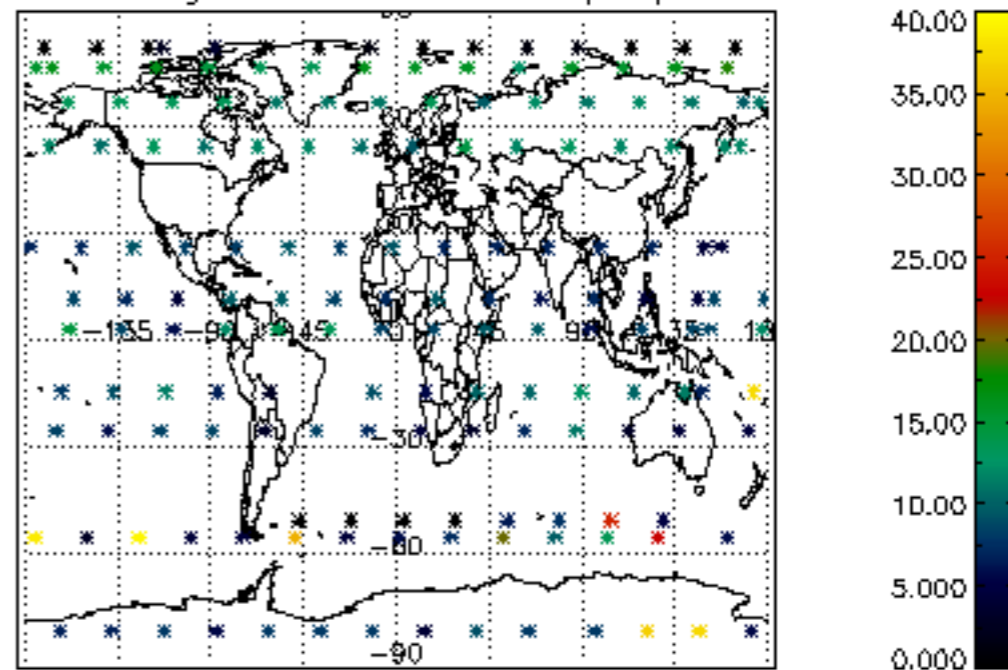
Percentage of datation errors per profile

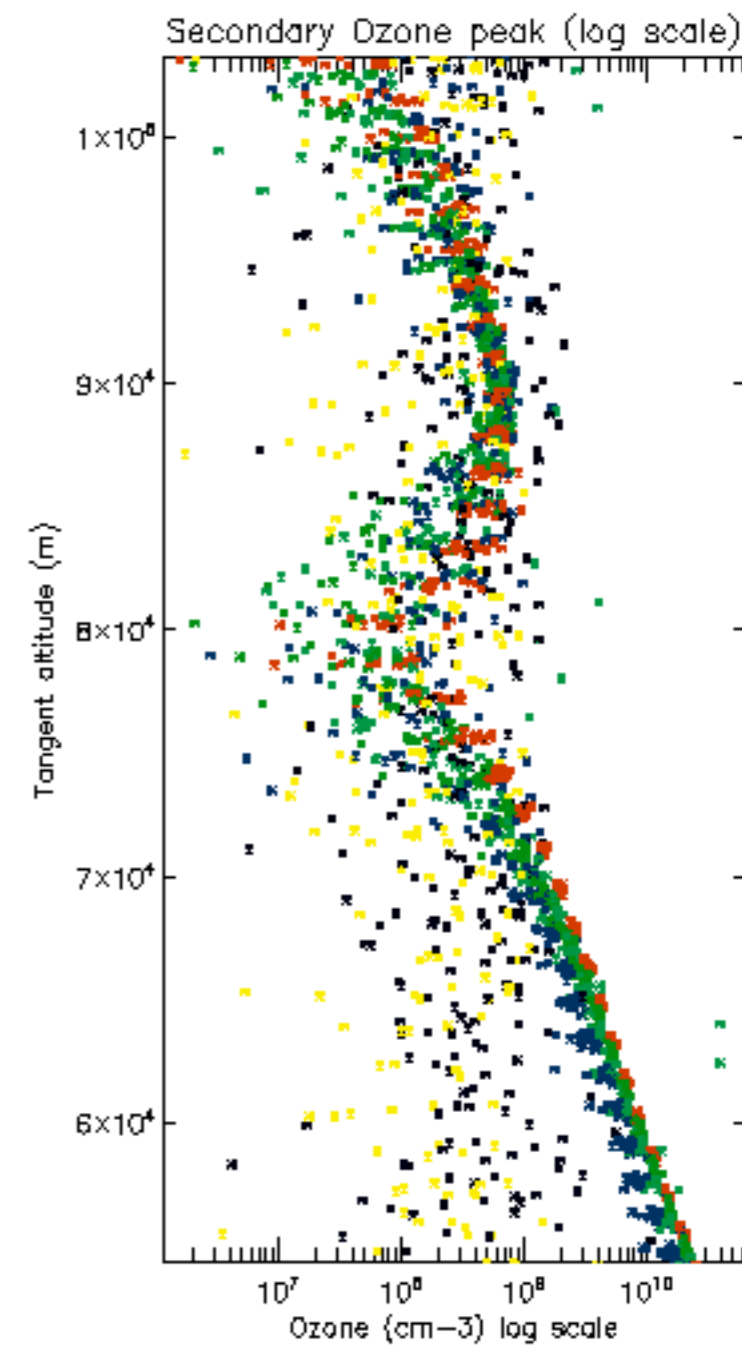
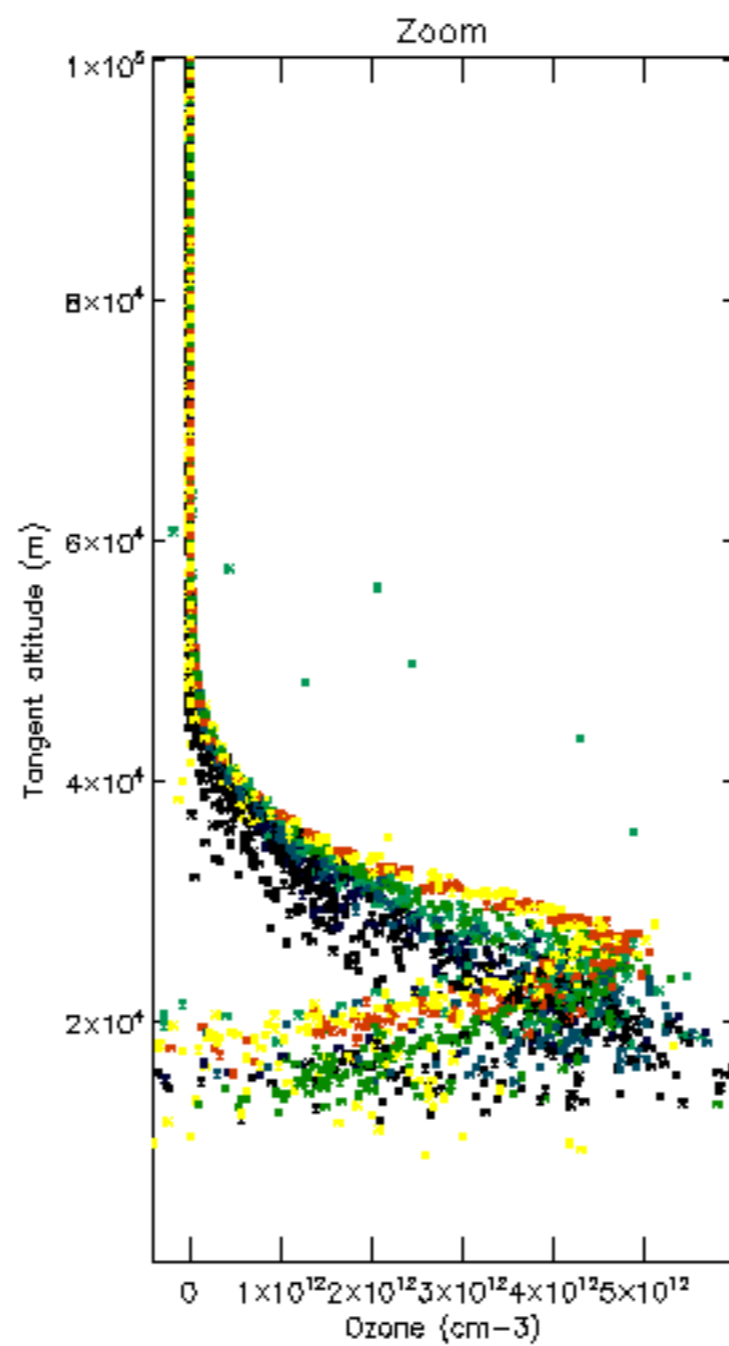
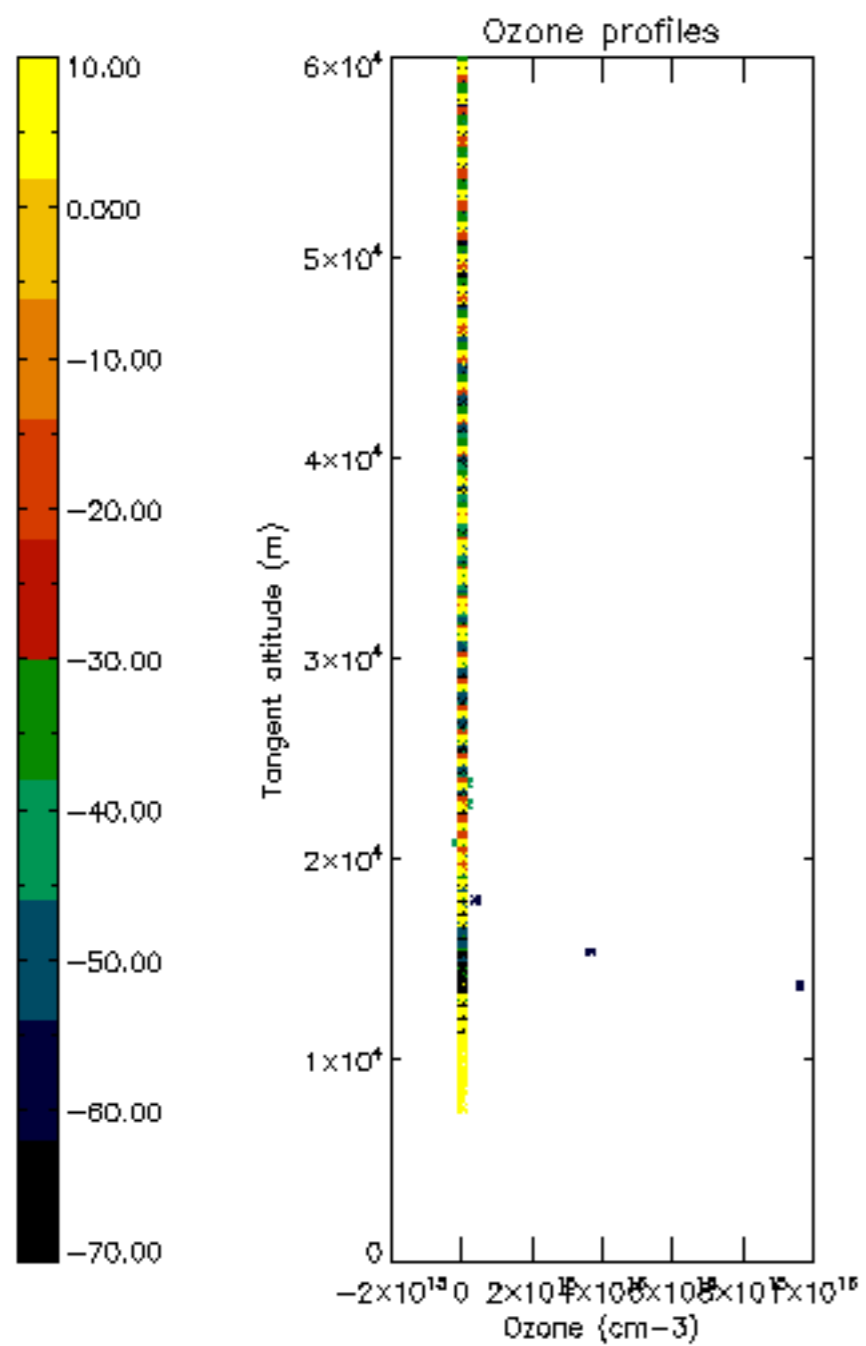


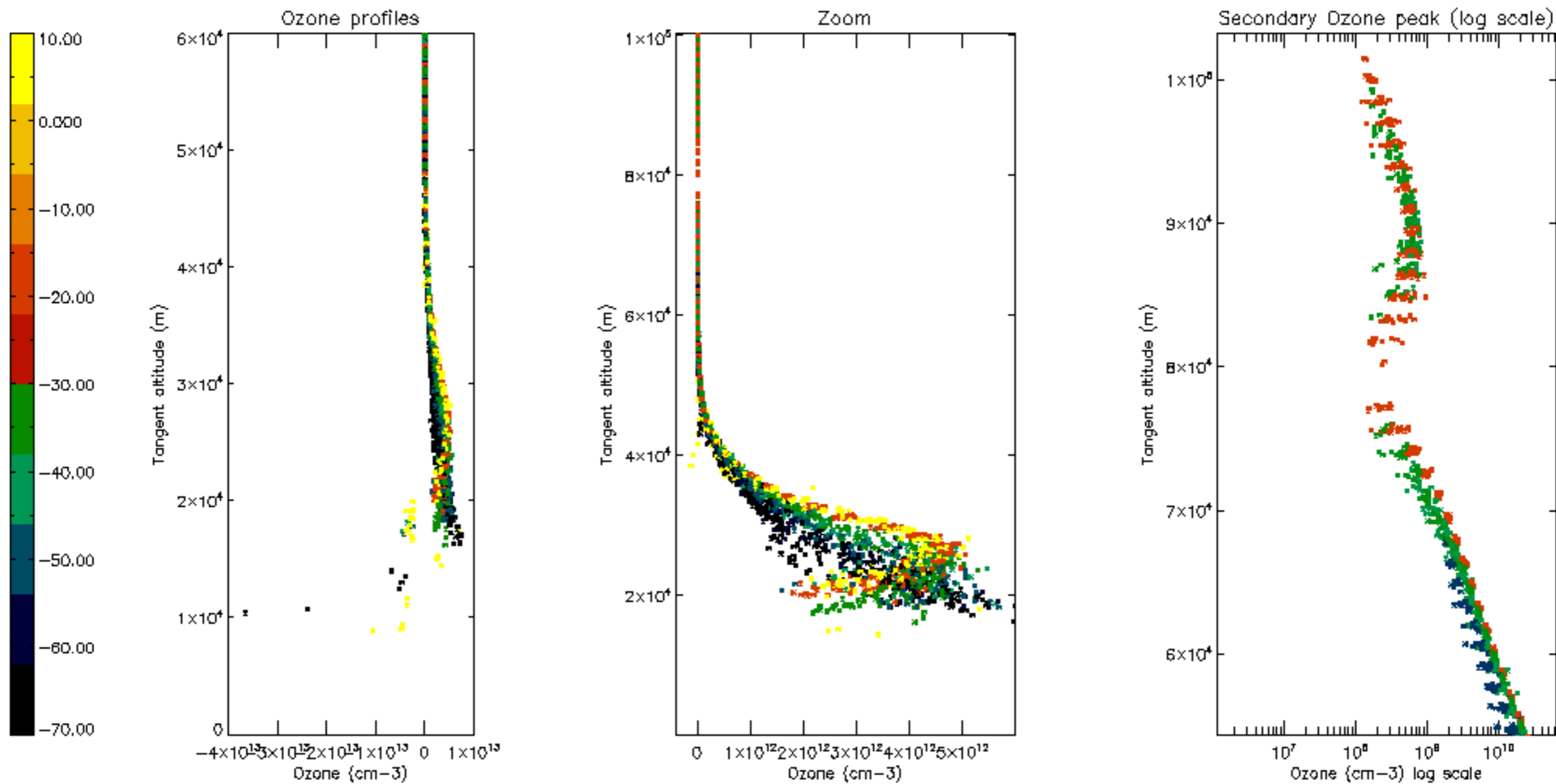
Percentage of star falling outside central band per profile

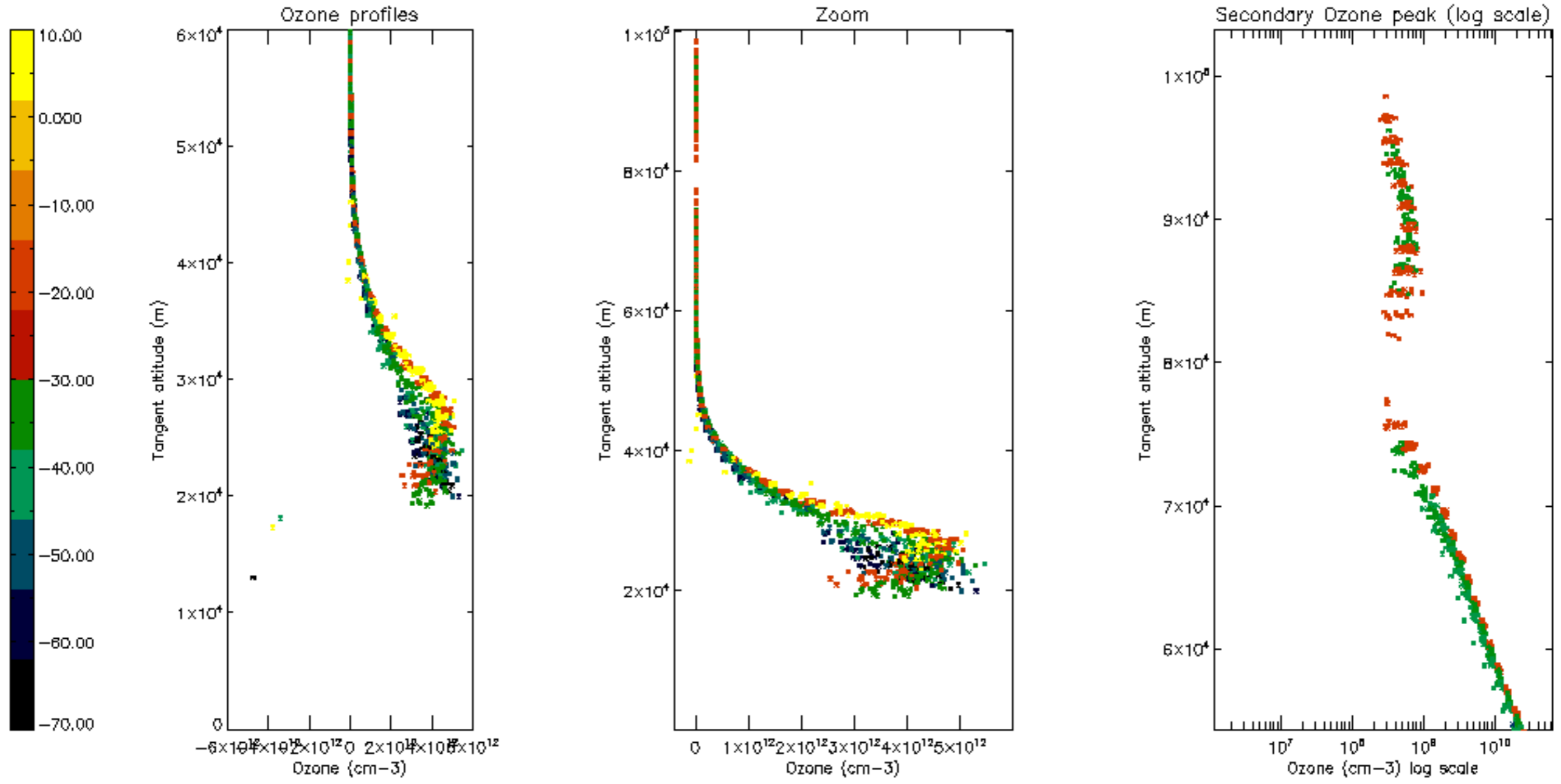


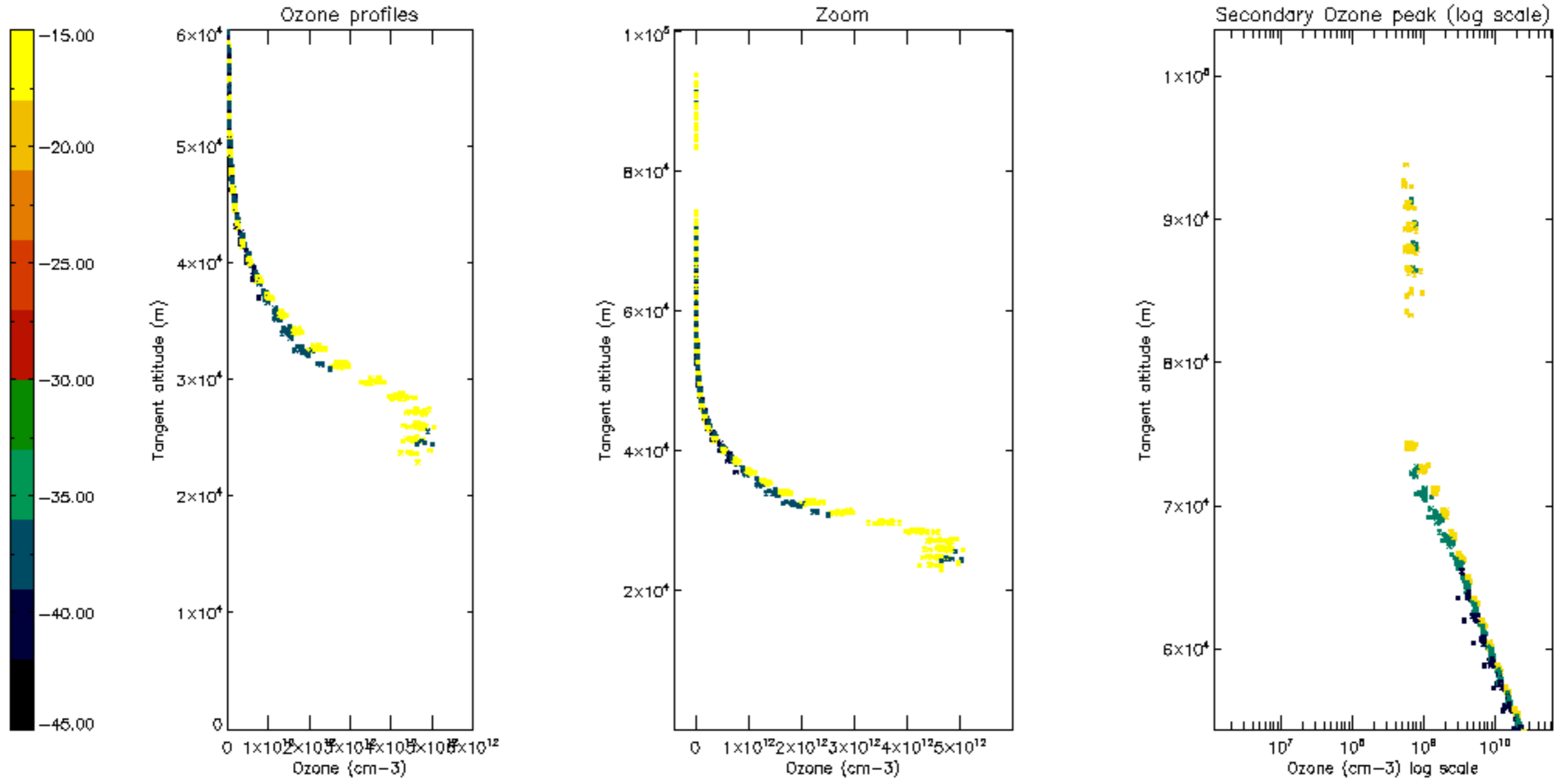
Percentage of saturation errors per profile

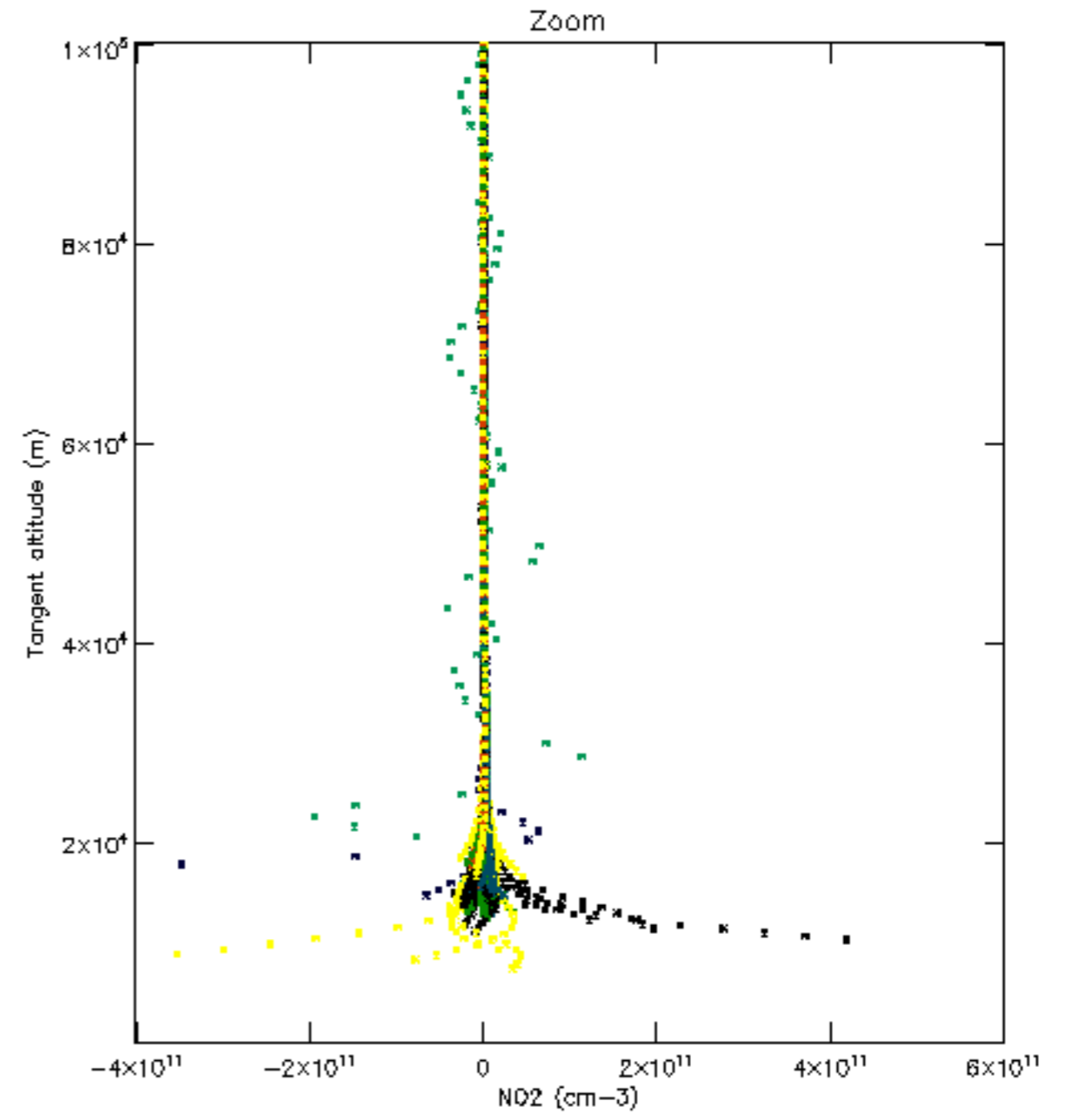
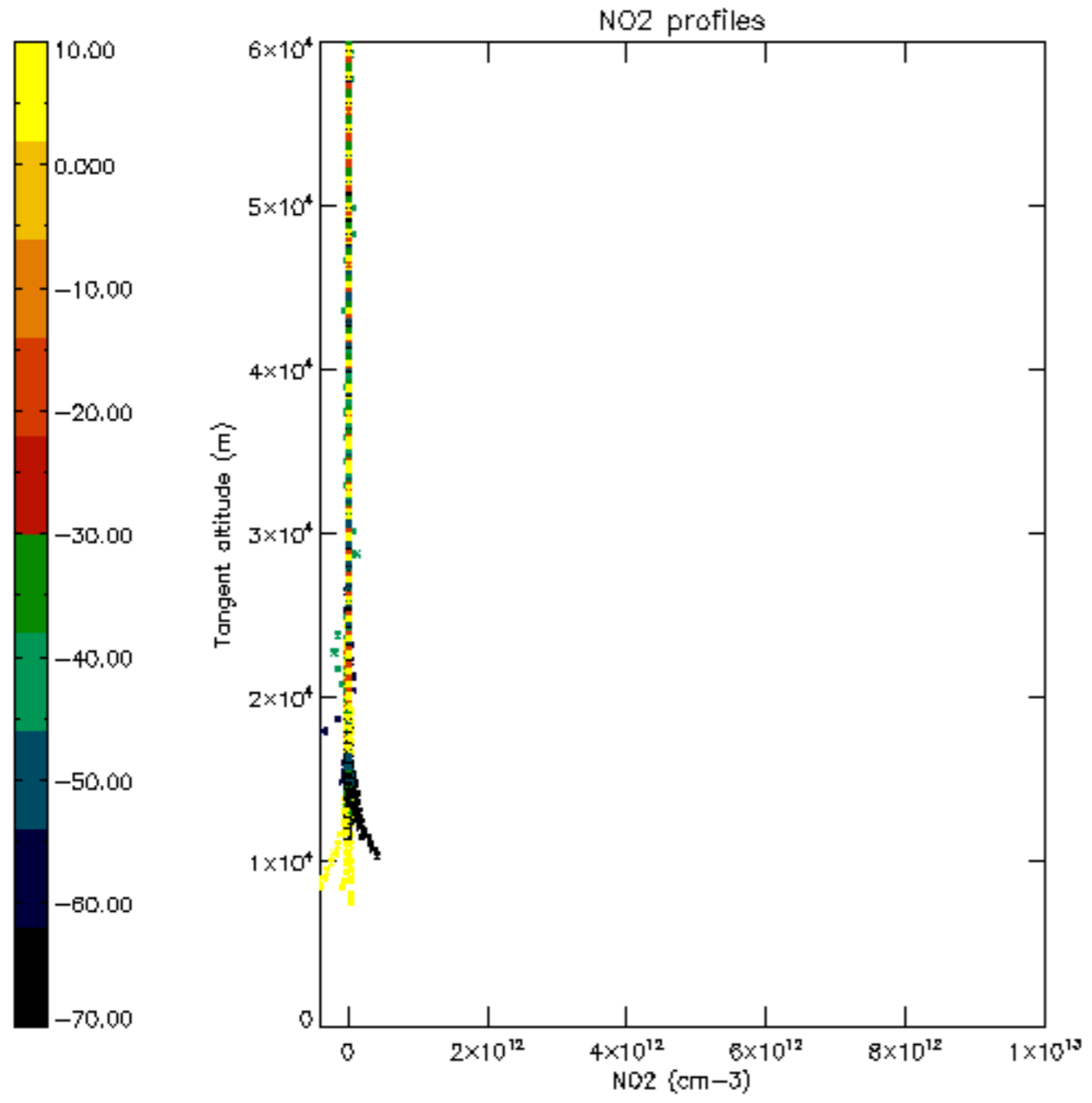


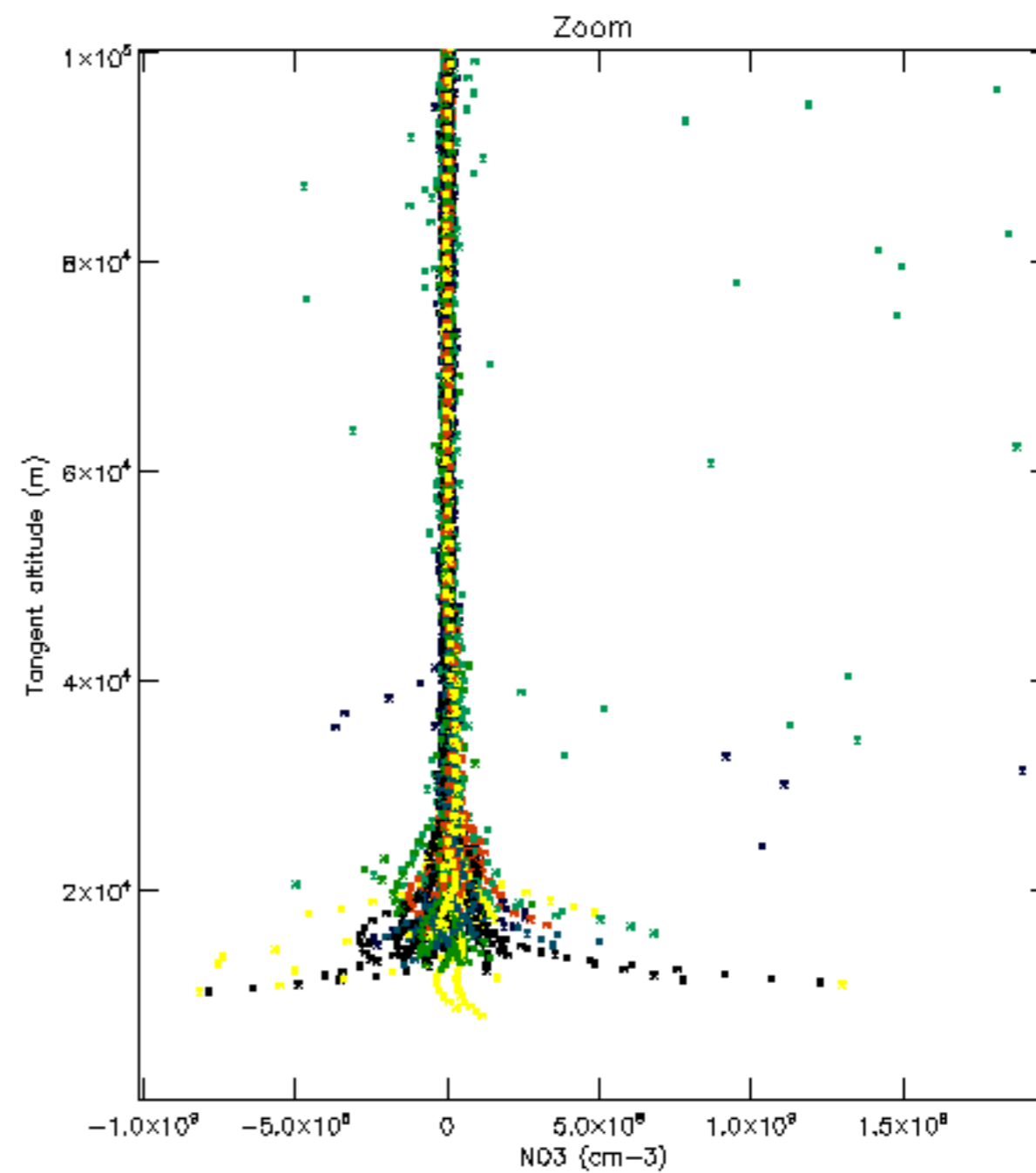
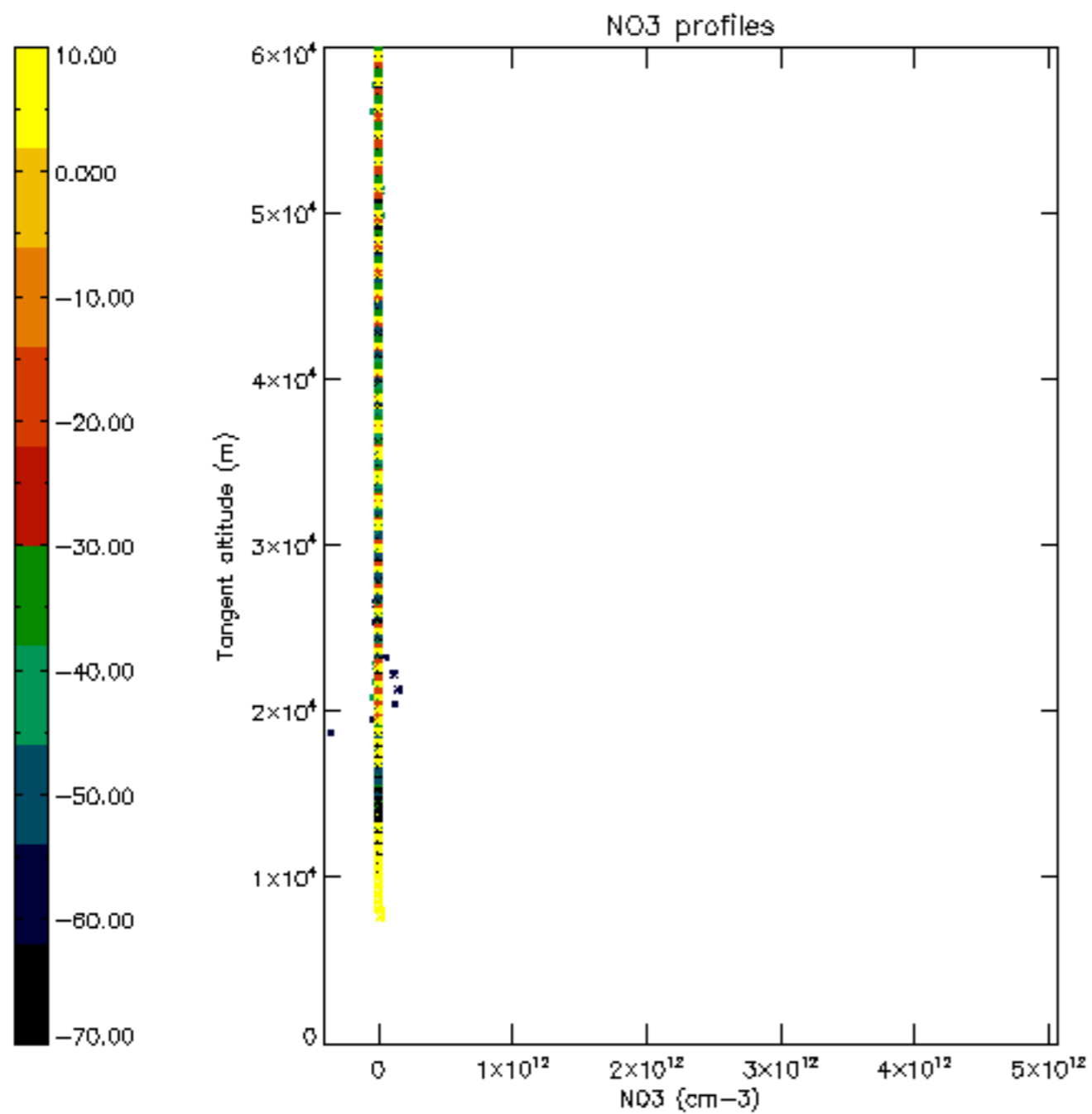


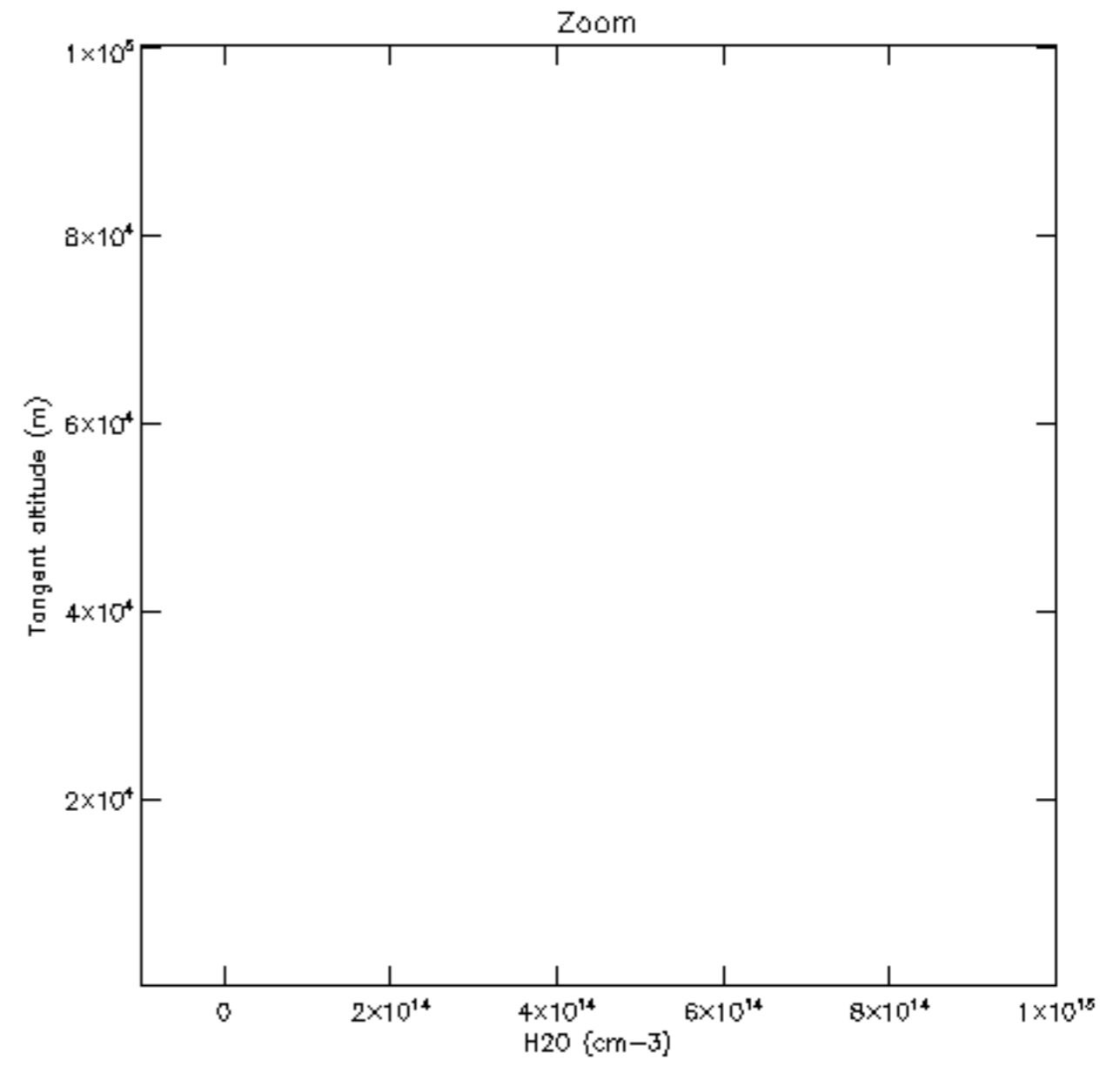
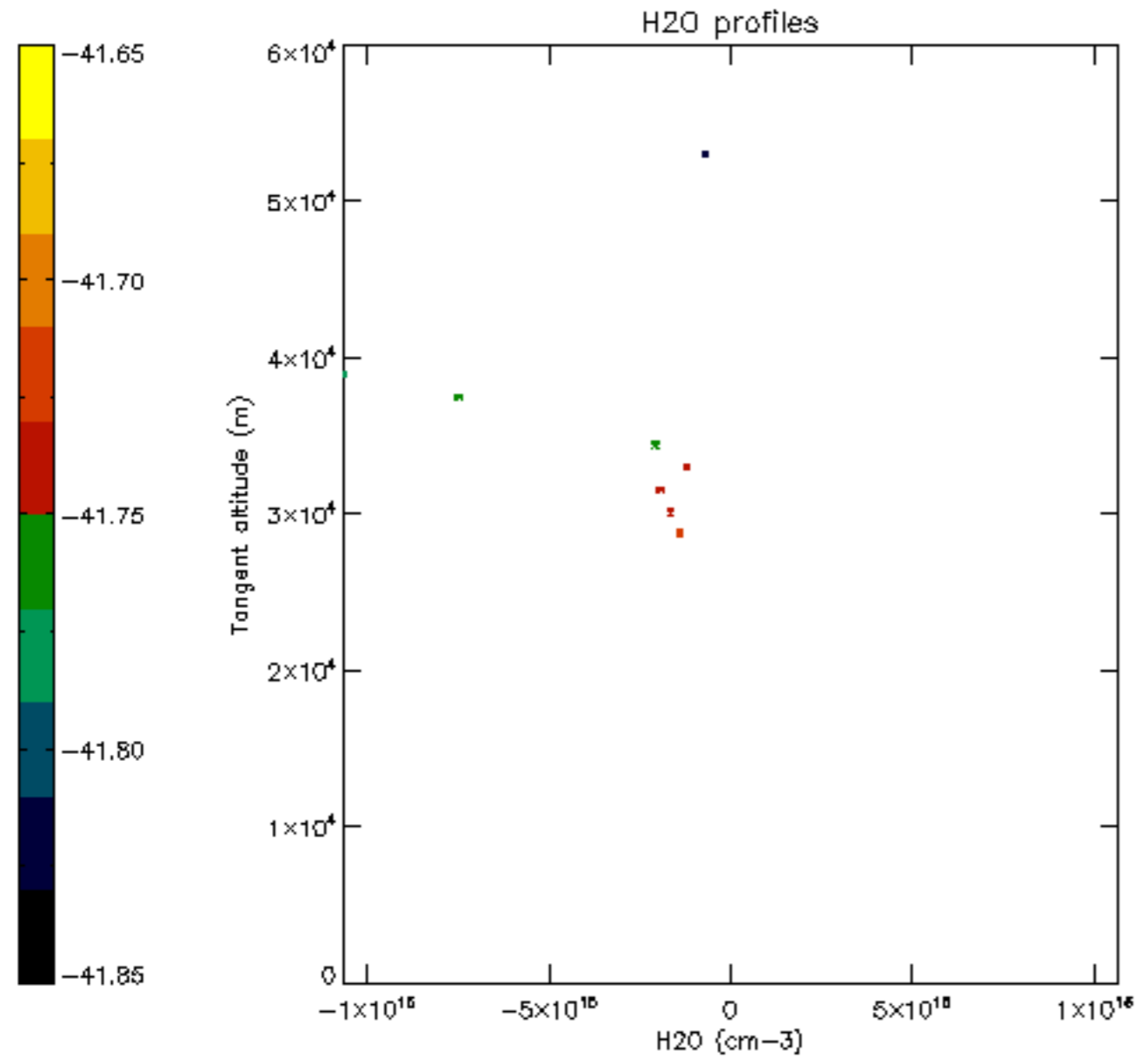


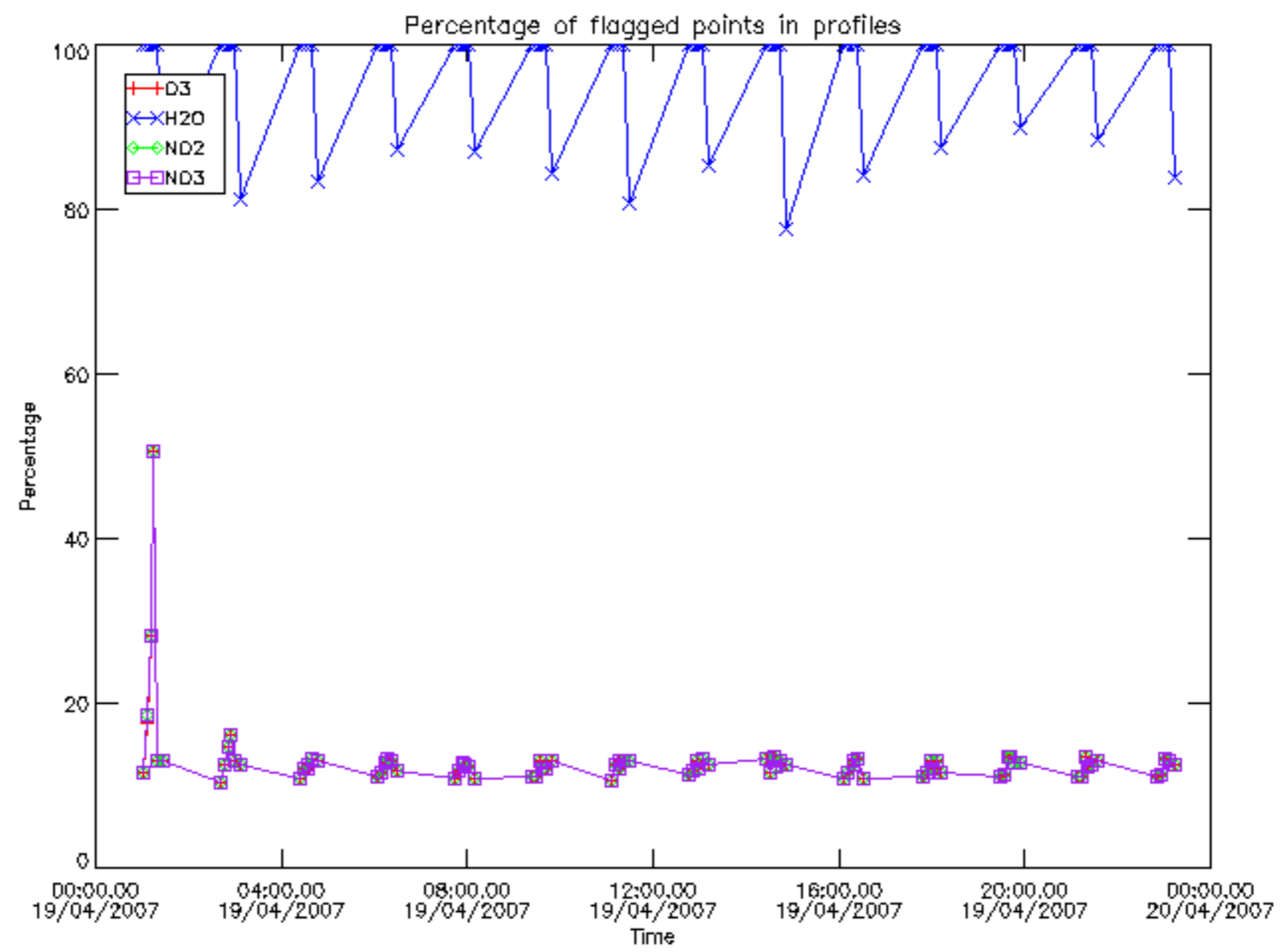




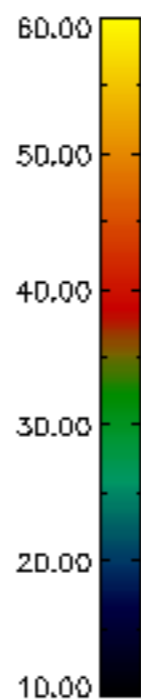
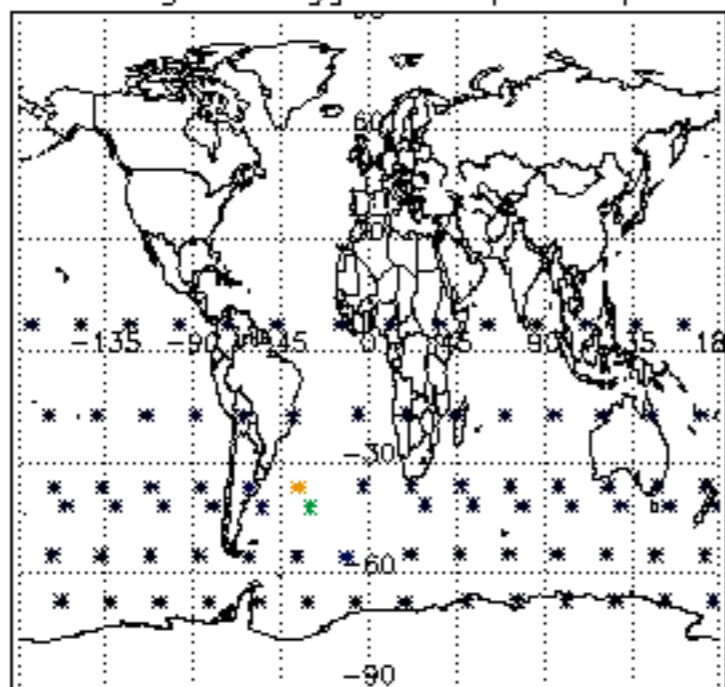




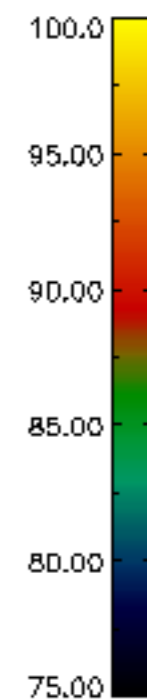
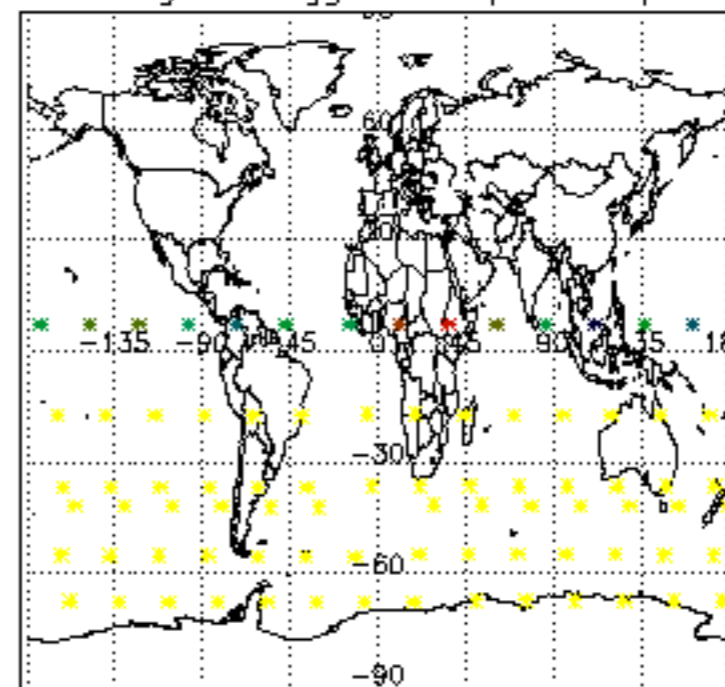




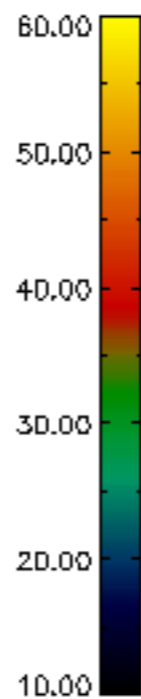
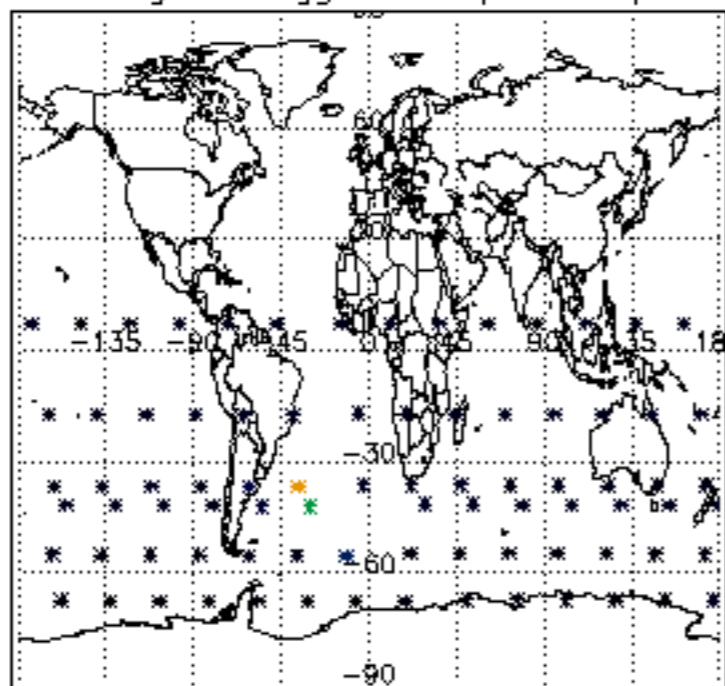
Percentage of flagged data per D3 profile



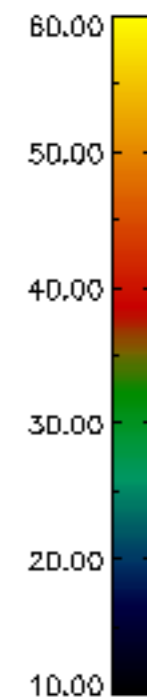
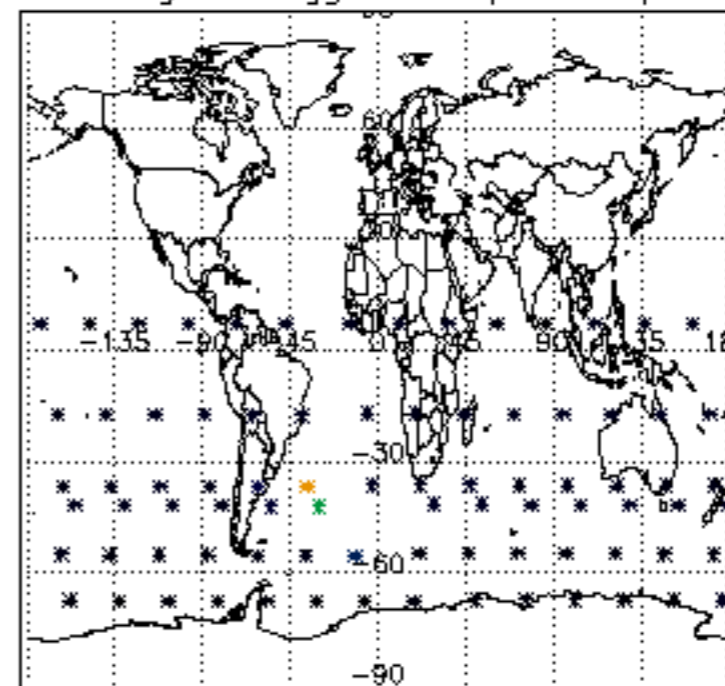
Percentage of flagged data per H2O profile

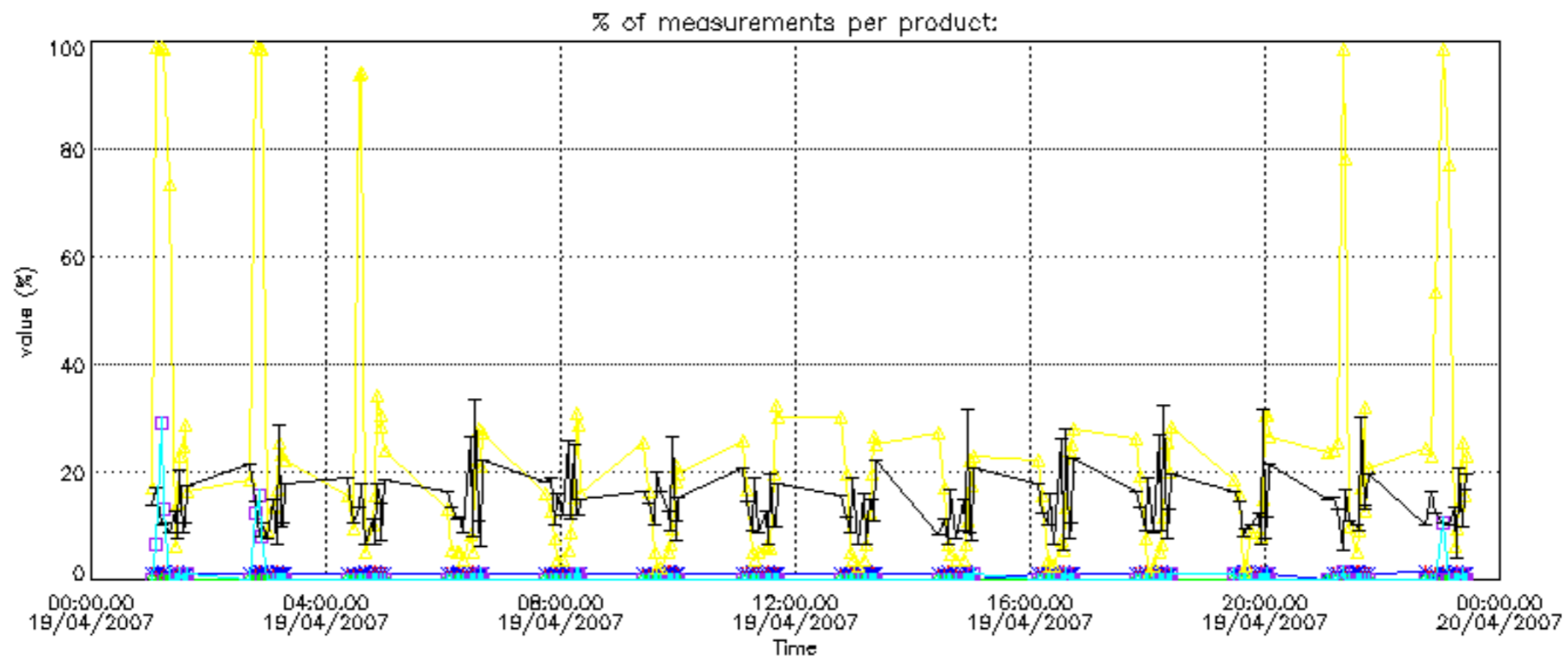
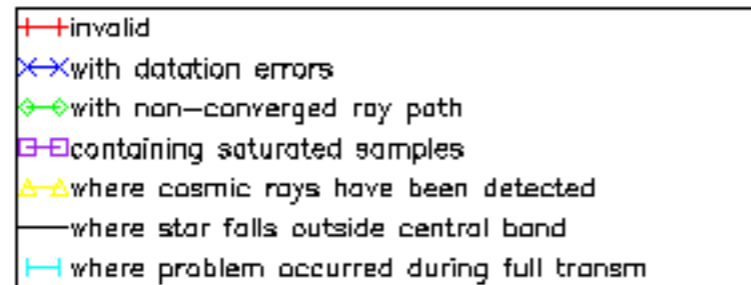


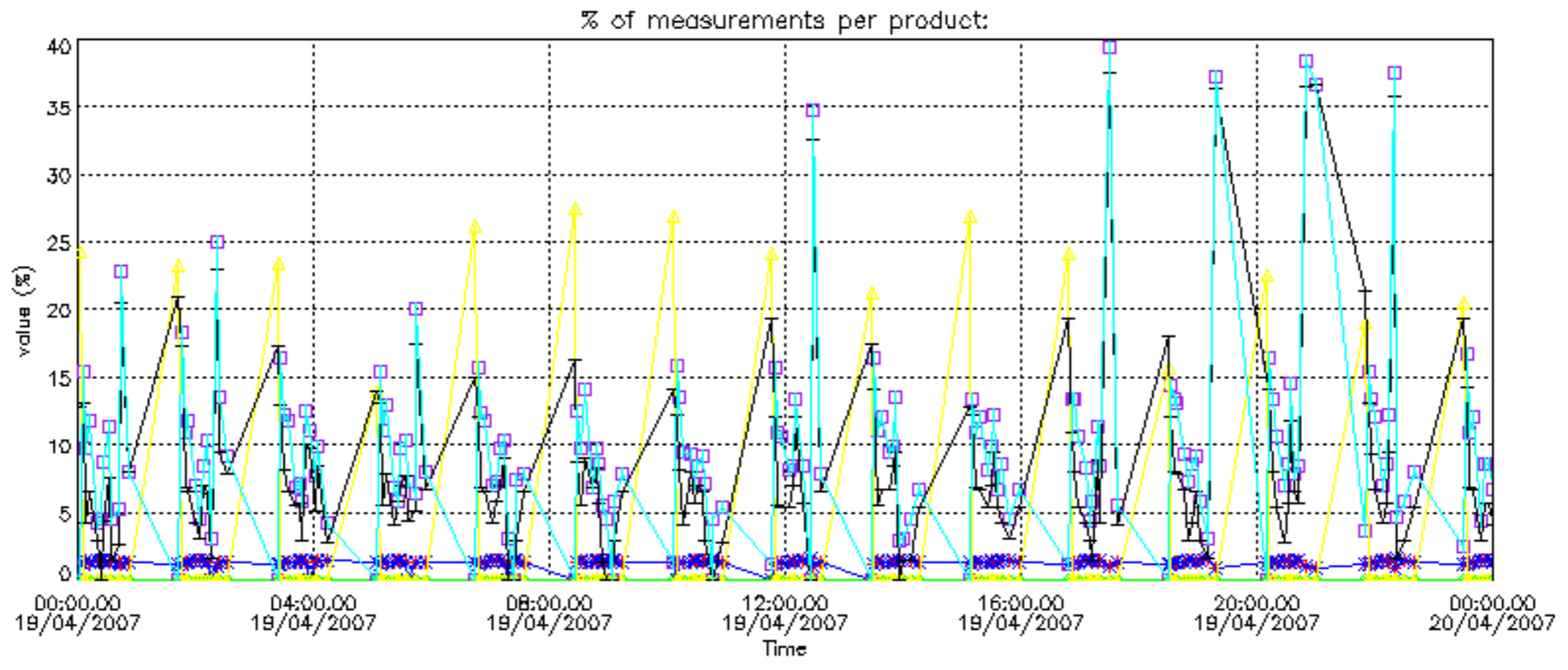
Percentage of flagged data per NO2 profile



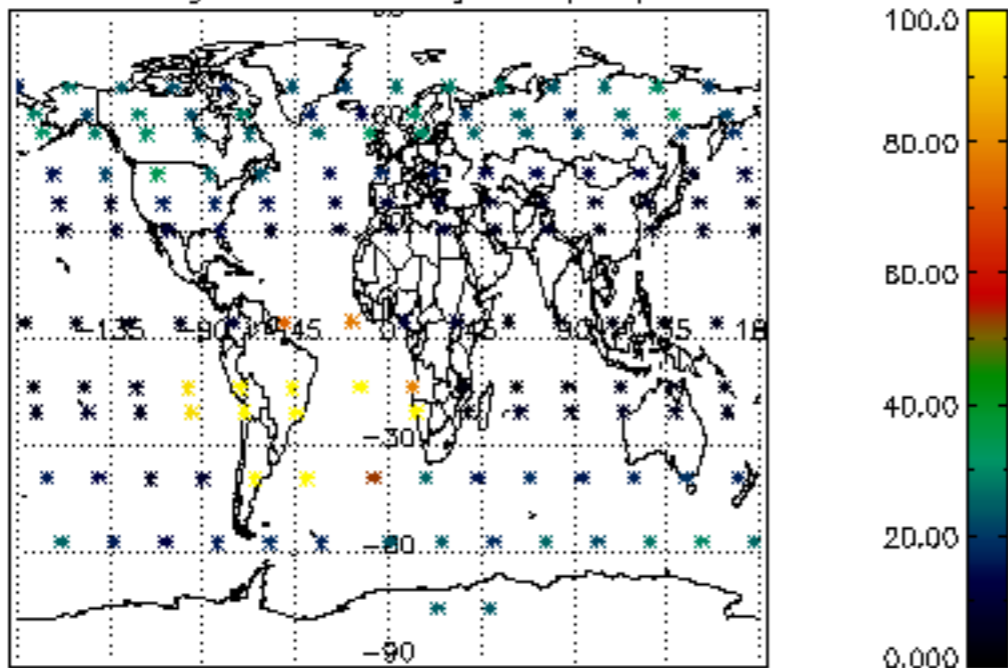
Percentage of flagged data per NO3 profile



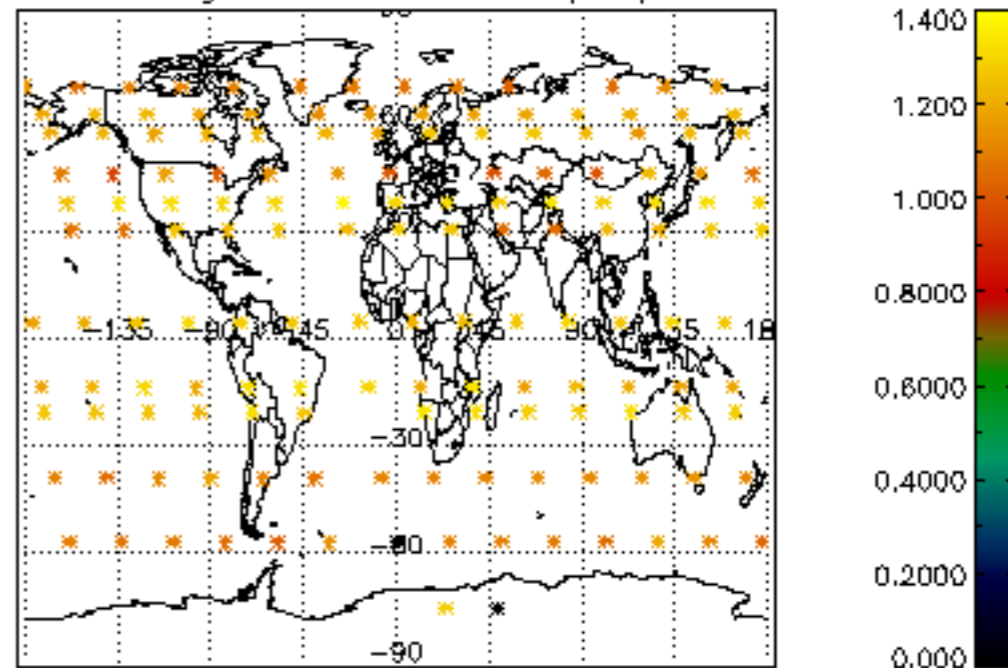




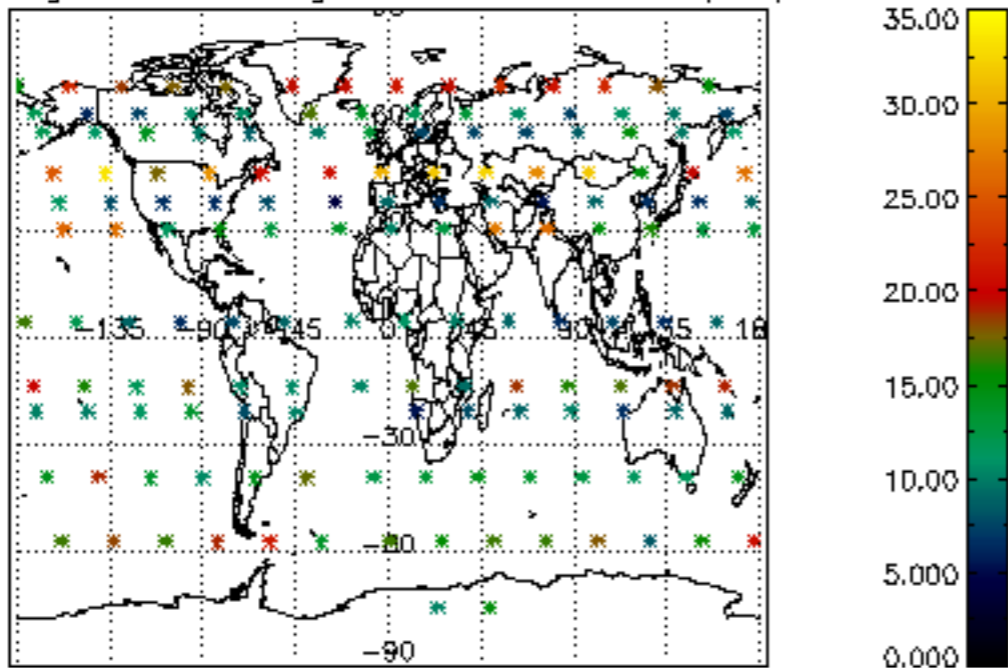
Percentage of cosmic ray hits per profile



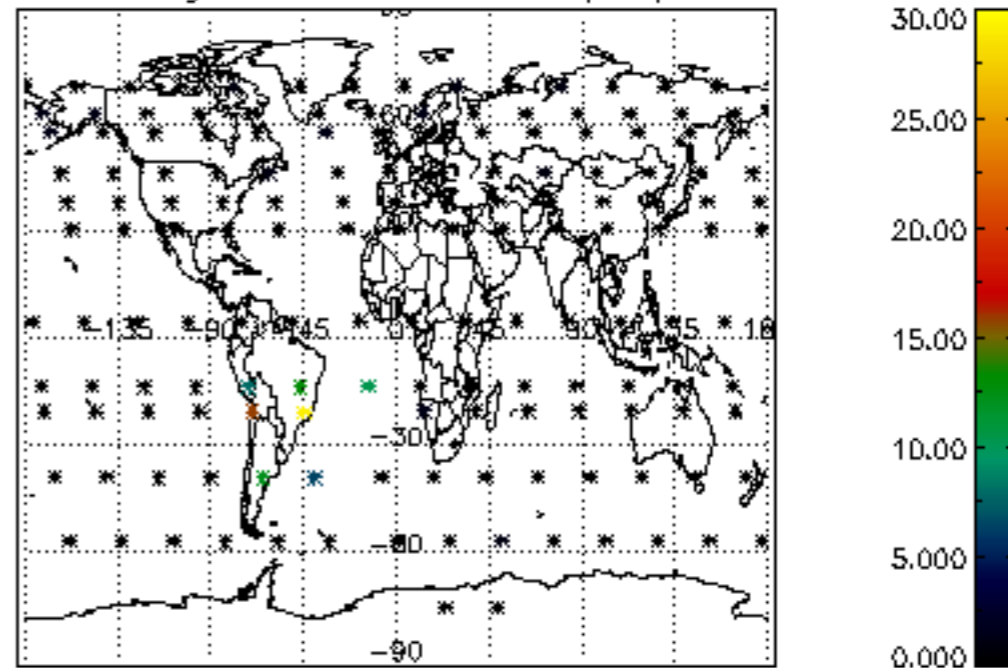
Percentage of datation errors per profile



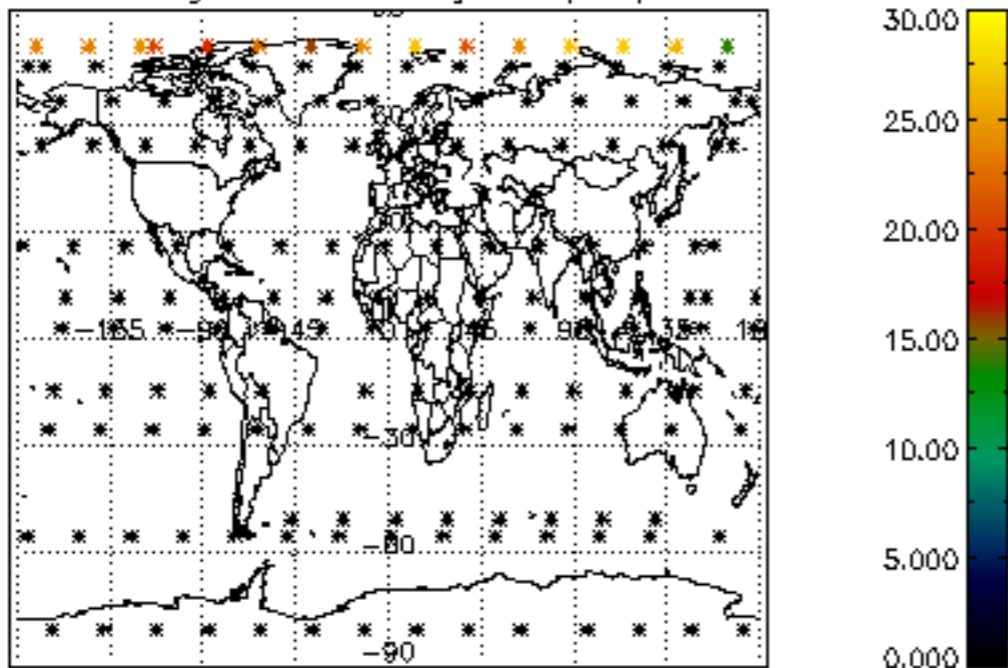
Percentage of star falling outside central band per profile



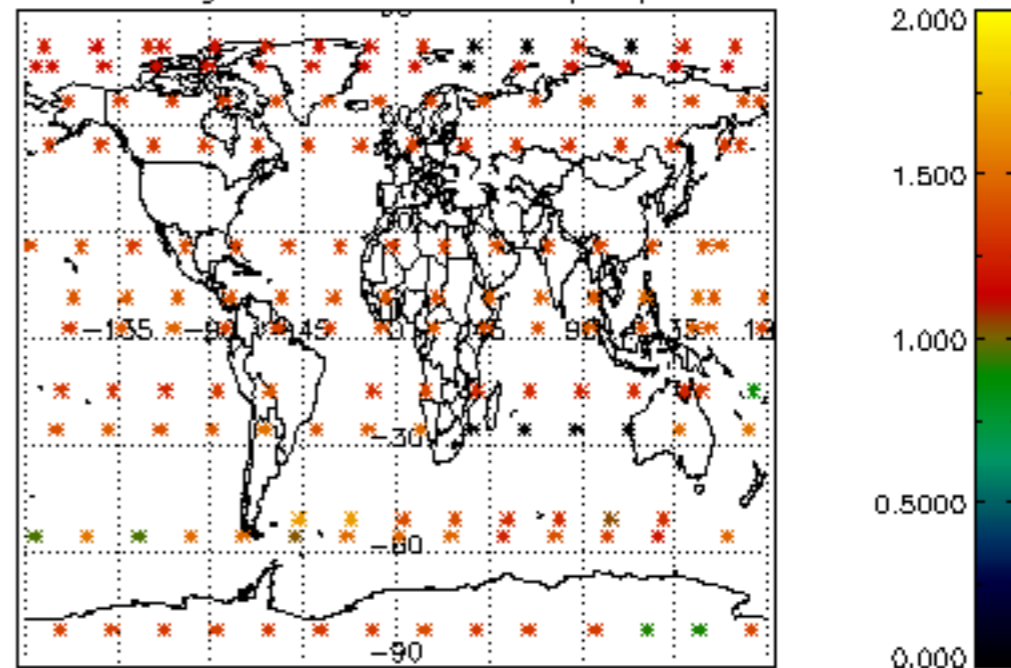
Percentage of saturation errors per profile



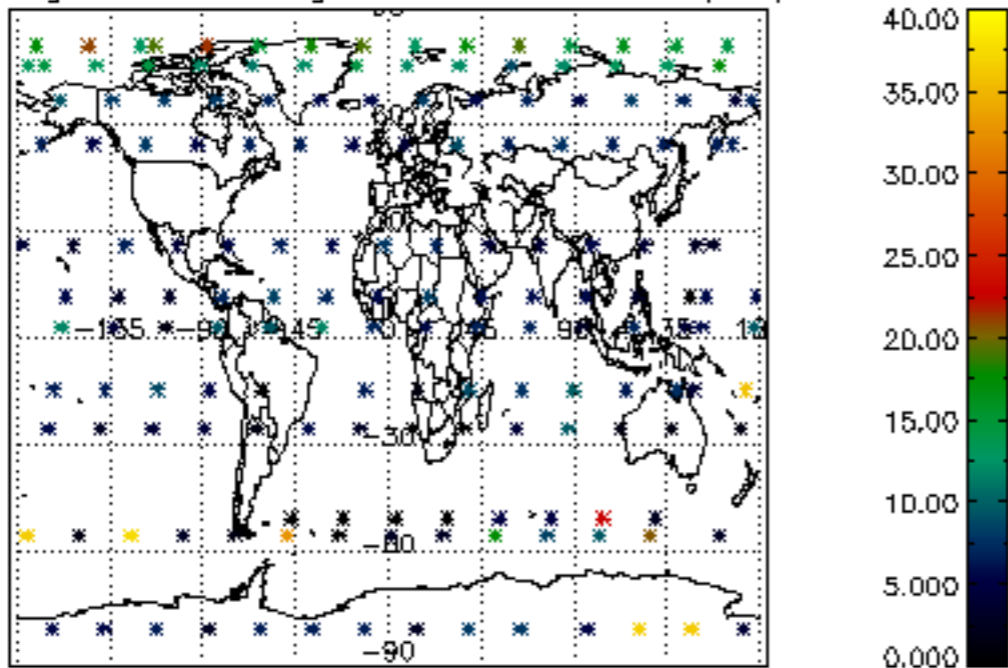
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

