

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

[3. Level 2 Quality information per product](#)

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

[4.1 Plot of level 1 quality information per product \(time dependant\)](#)

[4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

[4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

[4.2 Plot of level 1 quality information per product \(world map\)](#)

[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

[4.2.2 Plot of level 1 quality information per product \(world map\): DESCENDING](#)

[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

[5.1 Ozone statistics based on quality of products](#)

[5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

[5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

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

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

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

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

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

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

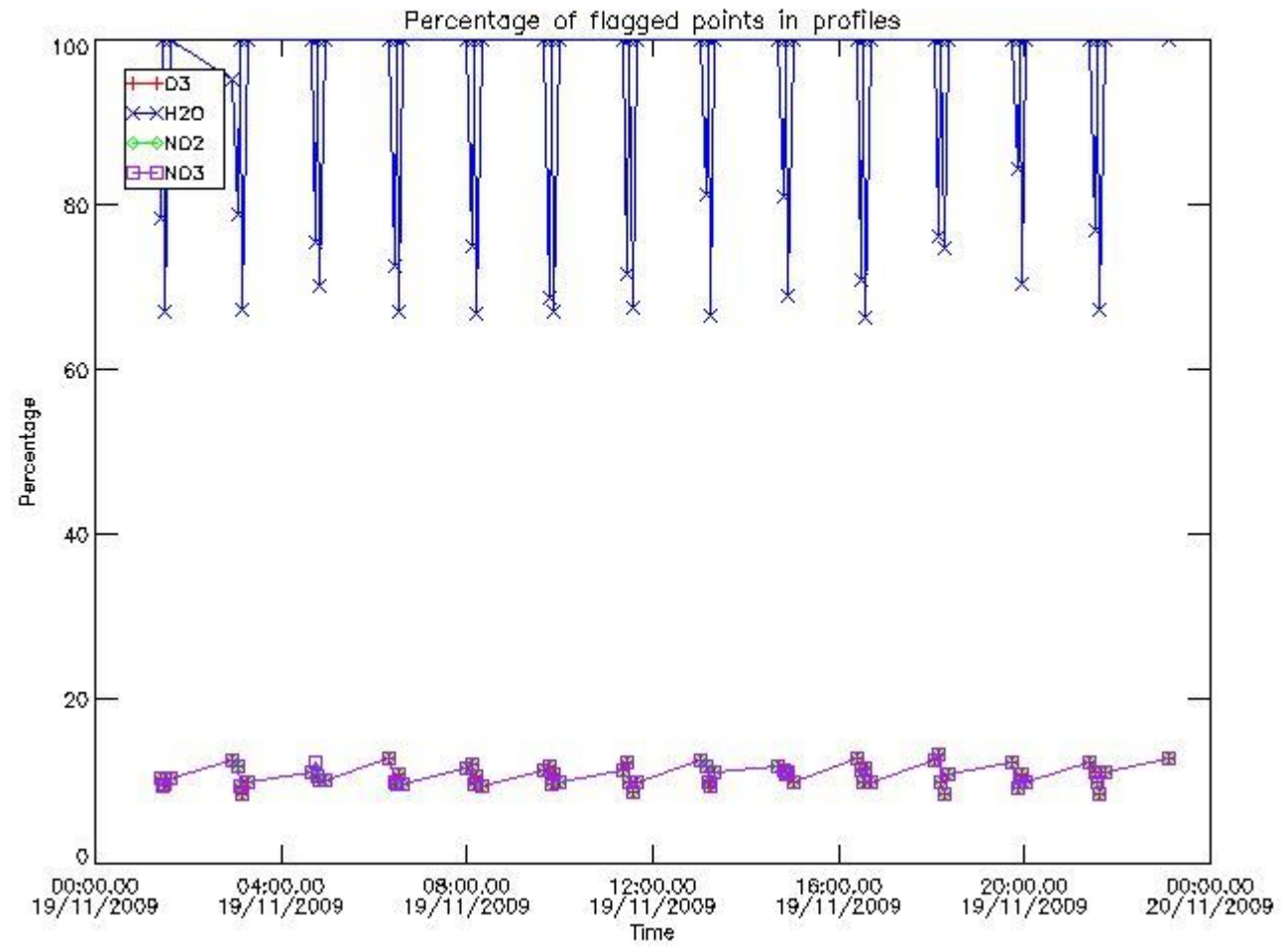
Item	Value
Time of report generation	26APR2013 14:03:34
Data source version	GOMOS/6.01
Start time of products	19-11-2009 (19NOV2009 00:00:00)
Stop time of products	20-11-2009 (20NOV2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	273
Nb of prods with errors	0

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__2PRFIN20091119_000431_000000512084_00231_40365_1251.N1	19-NOV-2009 00:04:31	Straylight	51.000	165	34Gam Eri	2.9500	3200.0	102	40365	No
2	GOM_NL__2PRFIN20091119_001001_000000462084_00231_40365_1252.N1	19-NOV-2009 00:10:01	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	40365	No
3	GOM_NL__2PRFIN20091119_001643_000000452084_00231_40365_1253.N1	19-NOV-2009 00:16:43	Bright	45.000	146	25Eta Tau	2.8730	15200.	90	40365	No
4	GOM_NL__2PRFIN20091119_001919_000000422084_00231_40365_1254.N1	19-NOV-2009 00:19:19	Bright	42.000	150	44Zet Per	2.8900	28000.	84	40365	No
5	GOM_NL__2PRFIN20091119_002058_000000402084_00231_40365_1255.N1	19-NOV-2009 00:20:58	Bright	40.000	79	26Bet Per	2.3100	13100.	80	40365	No
6	GOM_NL__2PRFIN20091119_002347_000000392084_00231_40365_1256.N1	19-NOV-2009 00:23:47	Bright	38.500	35	33Alp Per	1.7950	6250.0	77	40365	No
7	GOM_NL__2PRFIN20091119_004138_000000422084_00231_40365_1257.N1	19-NOV-2009 00:41:38	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	40365	No
8	GOM_NL__2PRFIN20091119_004317_000000432084_00231_40365_1258.N1	19-NOV-2009 00:43:17	Bright	42.500	82	48Bet UMa	2.3650	10600.	85	40365	No
9	GOM_NL__2PRFIN20091119_004726_000000442084_00231_40365_1259.N1	19-NOV-2009 00:47:26	Bright	44.000	174	52Psi UMa	3.0040	4400.0	88	40365	No
10	GOM_NL__2PRFIN20091119_004922_000000342084_00231_40365_1260.N1	19-NOV-2009 00:49:22	Bright	34.000	152	12Alp2CVn	2.8900	11000.	68	40365	No
11	GOM_NL__2PRFIN20091119_005737_000000542084_00231_40365_1261.N1	19-NOV-2009 00:57:37	Bright	53.500	62	94Bet Leo	2.1360	9700.0	107	40365	No
12	GOM_NL__2PRFIN20091119_010107_000000452084_00231_40365_1262.N1	19-NOV-2009 01:01:07	Bright	45.000	121	29Gam Vir	2.7400	7200.0	90	40365	No
13	GOM_NL__2PRFIN20091119_010616_000000442084_00231_40365_1263.N1	19-NOV-2009 01:06:16	Twilight	43.500	100	4Gam Crv	2.5800	13100.	87	40365	No
14	GOM_NL__2PRFIN20091119_010748_000000442084_00231_40365_1264.N1	19-NOV-2009 01:07:48	Twilight	43.500	171	2Eps Crv	3.0010	4250.0	87	40365	No
15	GOM_NL__2PRFIN20091119_012401_000000492084_00232_40366_1257.N1	19-NOV-2009 01:24:01	Dark	49.000	41	Eps Car	1.8600	4100.0	98	40366	No
16	GOM_NL__2PRFIN20091119_012620_000000542084_00232_40366_1258.N1	19-NOV-2009 01:26:20	Dark	54.000	70	Zet Pup	2.2460	39000.	108	40366	No
17	GOM_NL__2PRFIN20091119_012931_000000542084_00232_40366_1259.N1	19-NOV-2009 01:29:31	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	40366	No
18	GOM_NL__2PRFIN20091119_013612_000000542084_00232_40366_1260.N1	19-NOV-2009 01:36:12	Dark	53.500	108	Alp Col	2.6520	15200.	107	40366	No
19	GOM_NL__2PRFIN20091119_014507_000000502084_00232_40366_1261.N1	19-NOV-2009 01:45:07	Straylight	50.000	165	34Gam Eri	2.9500	3200.0	100	40366	No
20	GOM_NL__2PRFIN20091119_015036_000000462084_00232_40366_1262.N1	19-NOV-2009 01:50:36	Twilight	46.000	94	92Alp Cet	2.5260	3100.0	92	40366	No
21	GOM_NL__2PRFIN20091119_015719_000000432084_00232_40366_1263.N1	19-NOV-2009 01:57:19	Bright	42.500	146	25Eta Tau	2.8730	15200.	85	40366	No
22	GOM_NL__2PRFIN20091119_015954_000000442084_00232_40366_1264.N1	19-NOV-2009 01:59:54	Bright	43.500	150	44Zet Per	2.8900	28000.	87	40366	No
23	GOM_NL__2PRFIN20091119_020134_000000402084_00232_40366_1265.N1	19-NOV-2009 02:01:34	Bright	39.500	79	26Bet Per	2.3100	13100.	79	40366	No
24	GOM_NL__2PRFIN20091119_020423_000000402084_00232_40366_1266.N1	19-NOV-2009 02:04:23	Bright	39.500	35	33Alp Per	1.7950	6250.0	79	40366	No
25	GOM_NL__2PRFIN20091119_022214_000000462084_00232_40366_1267.N1	19-NOV-2009 02:22:14	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	40366	No
26	GOM_NL__2PRFIN20091119_022353_000000452084_00232_40366_1268.N1	19-NOV-2009 02:23:53	Bright	45.000	82	48Bet UMa	2.3650	10600.	90	40366	No
27	GOM_NL__2PRFIN20091119_022515_000000382084_00232_40366_1269.N1	19-NOV-2009 02:25:15	Bright	38.000	87	64Gam UMa	2.4330	11000.	76	40366	No
28	GOM_NL__2PRFIN20091119_022801_000000482084_00232_40366_1270.N1	19-NOV-2009 02:28:01	Bright	47.500	174	52Psi UMa	3.0040	4400.0	95	40366	No
29	GOM_NL__2PRFIN20091119_022958_000000342084_00232_40366_1271.N1	19-NOV-2009 02:29:58	Bright	34.000	152	12Alp2CVn	2.8900	11000.	68	40366	No
30	GOM_NL__2PRFIN20091119_023813_000000412084_00232_40366_1272.N1	19-NOV-2009 02:38:13	Bright	40.500	62	94Bet Leo	2.1360	9700.0	81	40366	No
31	GOM_NL__2PRFIN20091119_024143_000000392084_00232_40366_1273.N1	19-NOV-2009 02:41:43	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	40366	No
32	GOM_NL__2PRFIN20091119_024653_000000442084_00232_40366_1274.N1	19-NOV-2009 02:46:53	Twilight	44.000	100	4Gam Crv	2.5800	13100.	88	40366	No
33	GOM_NL__2PRFIN20091119_025745_000000412084_00232_40366_1275.N1	19-NOV-2009 02:57:45	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	40366	No
34	GOM_NL__2PRFIN20091119_030437_000000432084_00233_40367_1266.N1	19-NOV-2009 03:04:37	Dark	43.000	41	Eps Car	1.8600	4100.0	86	40367	No
35	GOM_NL__2PRFIN20091119_030657_000000542084_00233_40367_1267.N1	19-NOV-2009 03:06:57	Dark	54.000	70	Zet Pup	2.2460	39000.	108	40367	No
36	GOM_NL__2PRFIN20091119_031008_000000602084_00233_40367_1268.N1	19-NOV-2009 03:10:08	Dark	60.000	2	Alp Car	-0.73600	7000.0	120	40367	No
37	GOM_NL__2PRFIN20091119_031648_000000522084_00233_40367_1269.N1	19-NOV-2009 03:16:48	Dark	52.000	108	Alp Col	2.6520	15200.	104	40367	No
38	GOM_NL__2PRFIN20091119_032543_000000512084_00233_40367_1270.N1	19-NOV-2009 03:25:43	Straylight	51.000	165	34Gam Eri	2.9500	3200.0	102	40367	No
39	GOM_NL__2PRFIN20091119_033112_000000462084_00233_40367_1271.N1	19-NOV-2009 03:31:12	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	40367	No
40	GOM_NL__2PRFIN20091119_033755_000000432084_00233_40367_1272.N1	19-NOV-2009 03:37:55	Bright	42.500	146	25Eta Tau	2.8730	15200.	85	40367	No
41	GOM_NL__2PRFIN20091119_034029_000000432084_00233_40367_1273.N1	19-NOV-2009 03:40:29	Bright	43.000	150	44Zet Per	2.8900	28000.	86	40367	No
42	GOM_NL__2PRFIN20091119_034209_000000402084_00233_40367_1274.N1	19-NOV-2009 03:42:09	Bright	39.500	79	26Bet Per	2.3100	13100.	79	40367	No

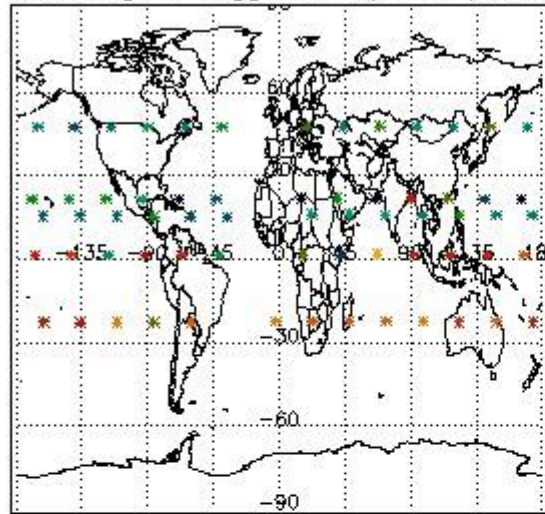
the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

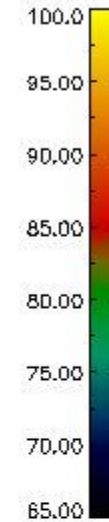
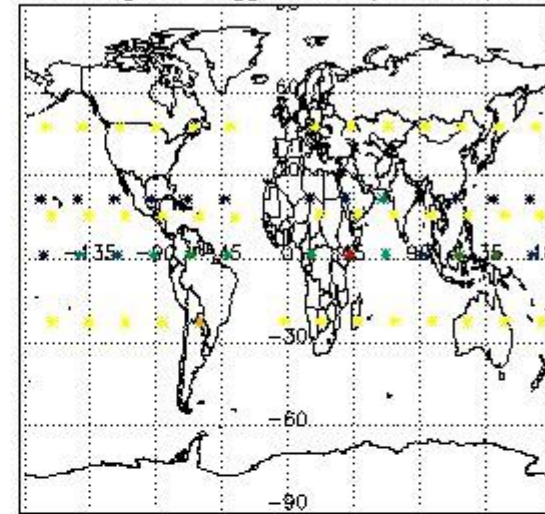


3.2 Plot quality information per product (world map)

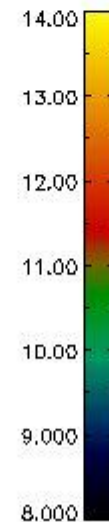
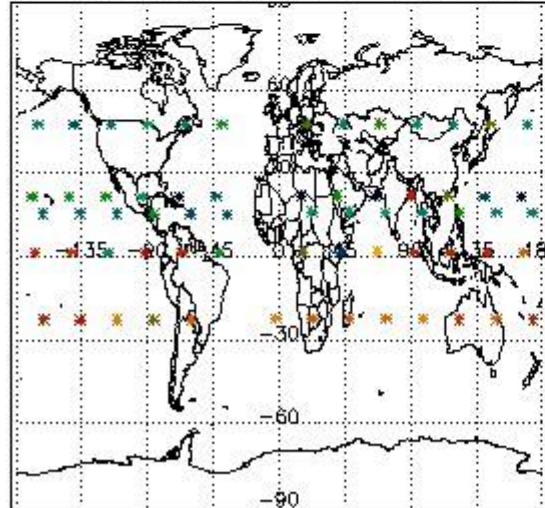
Percentage of flagged data per O3 profile



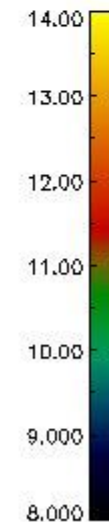
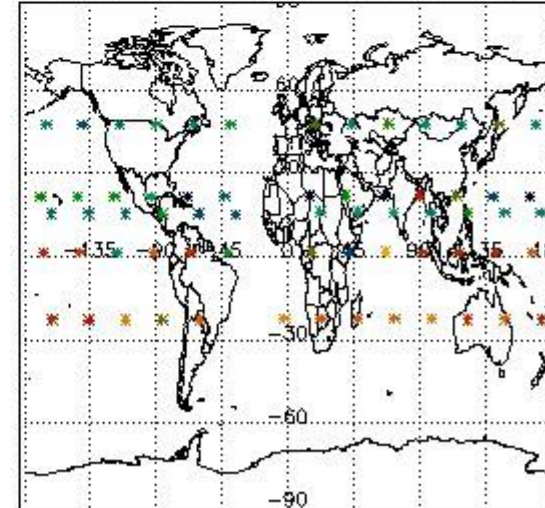
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

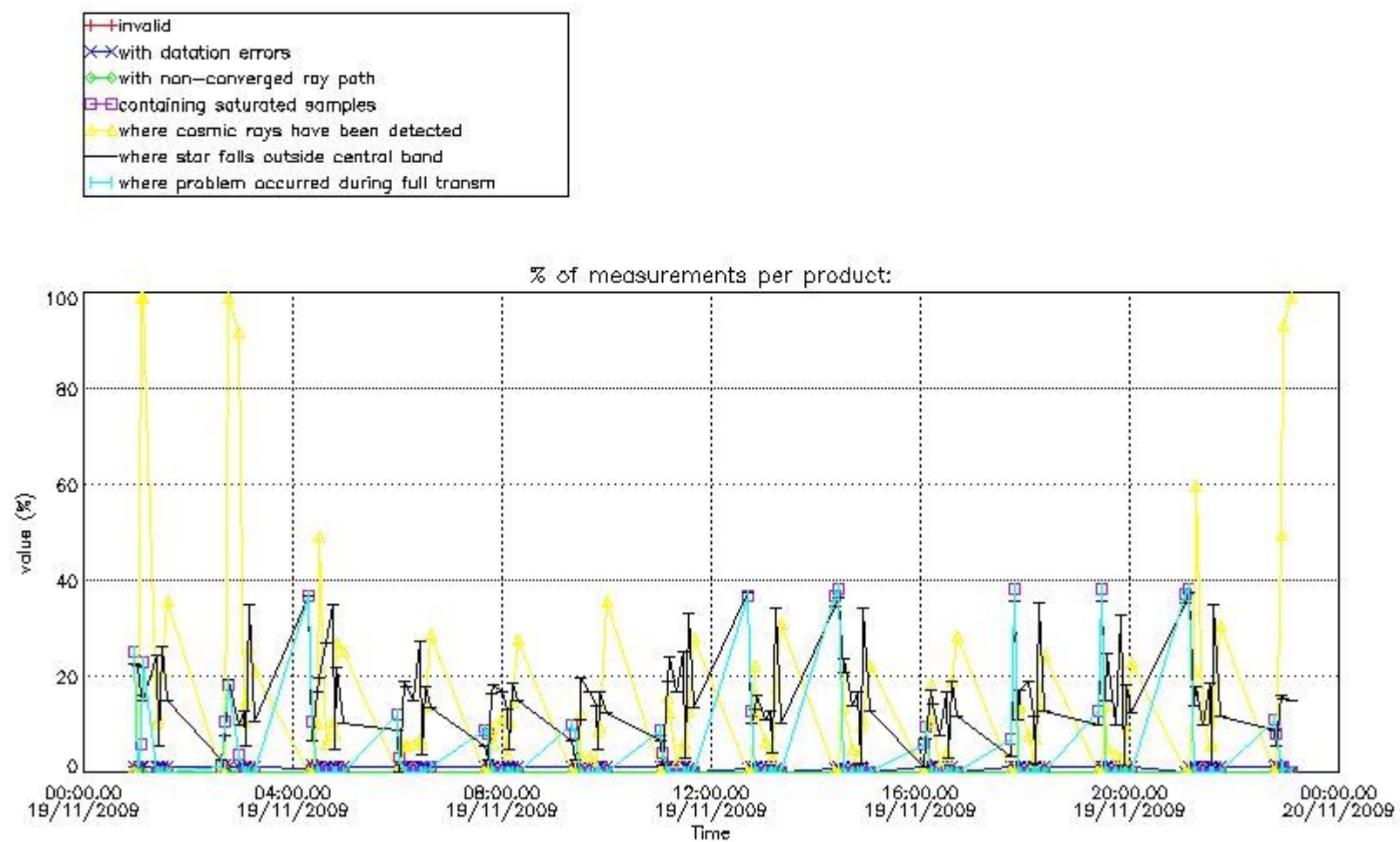


4. Level 1 quality information per product

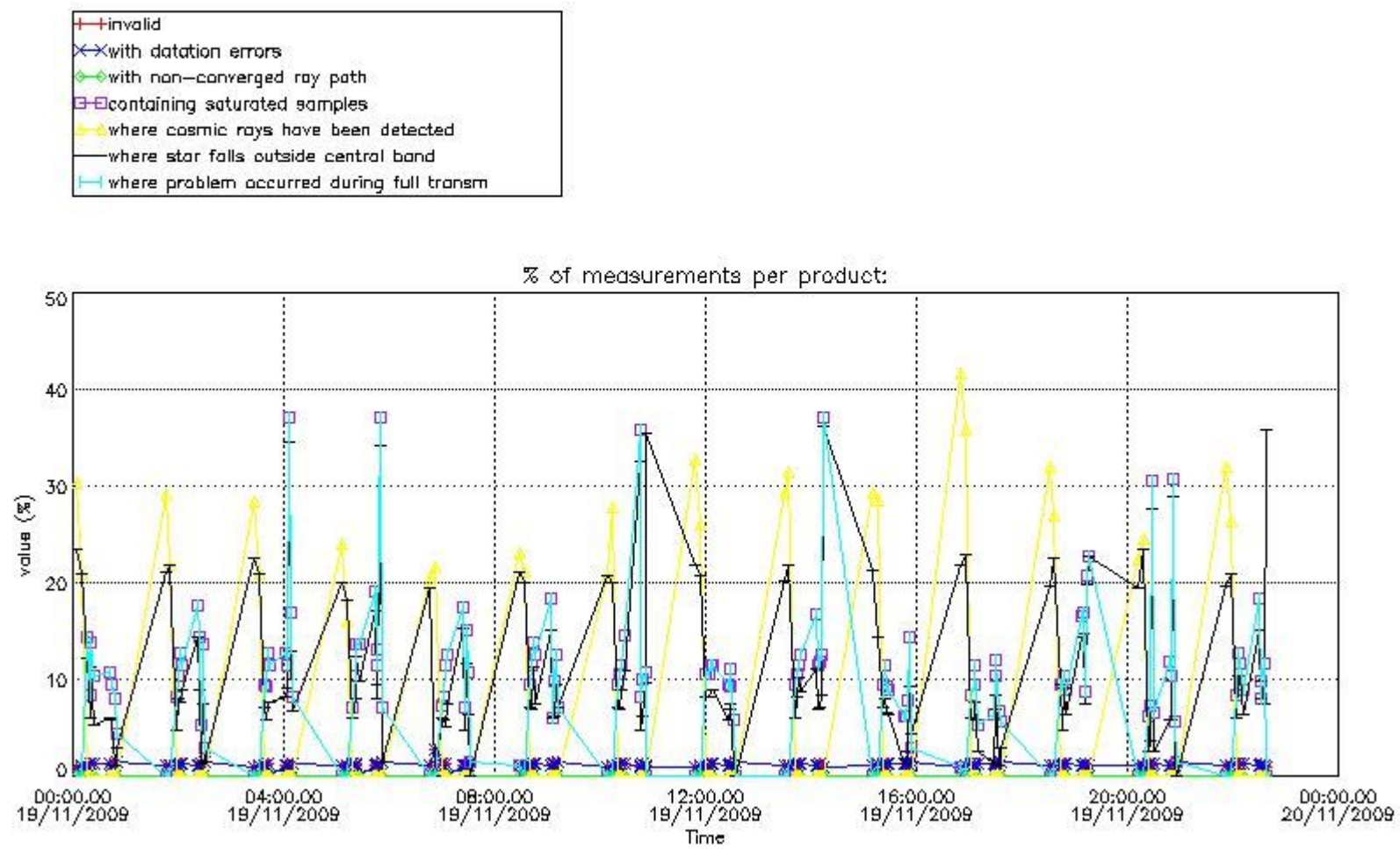
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



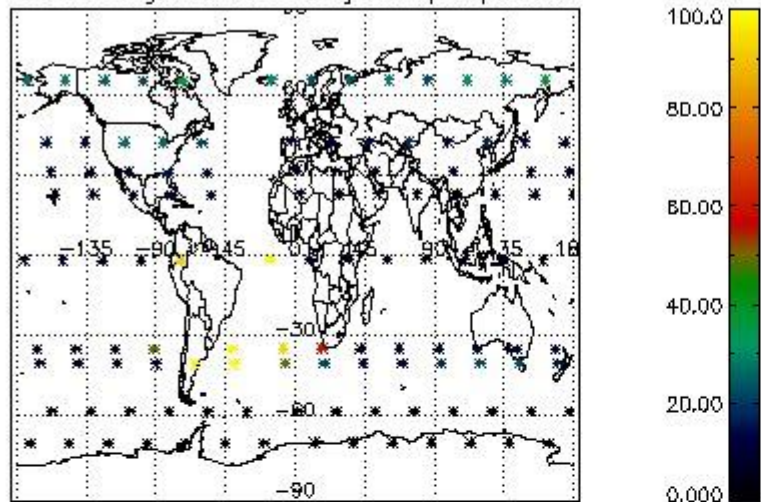
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



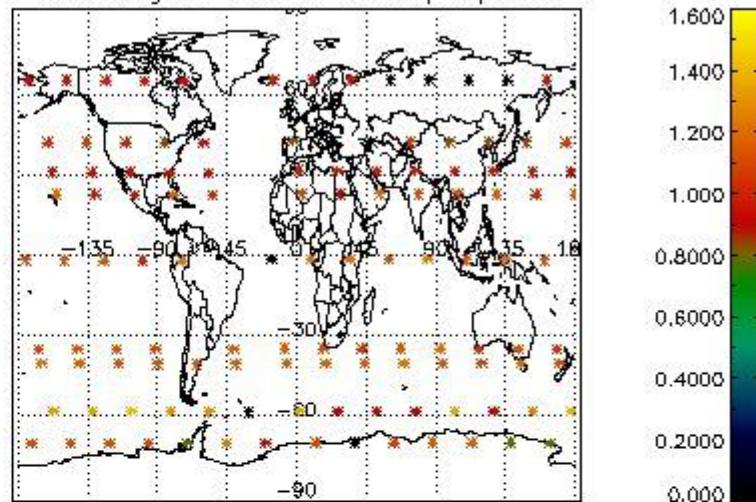
4.2 Plot quality information per product coming from level 1b processing (world map)

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

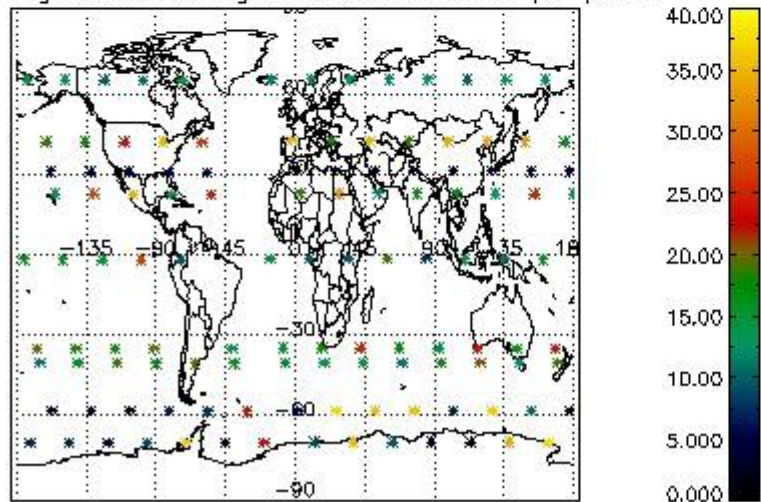
Percentage of cosmic ray hits per profile



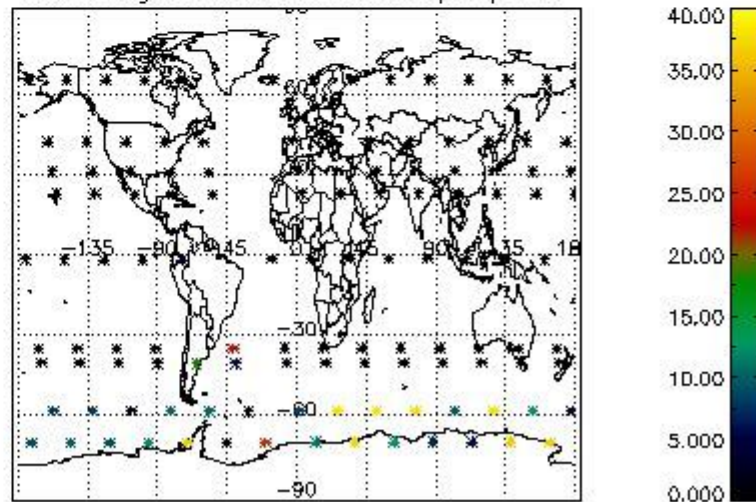
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

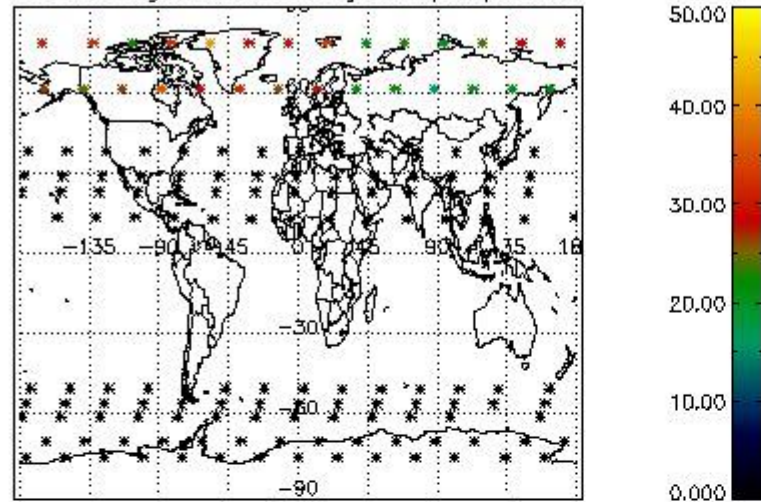


Percentage of saturation errors per profile

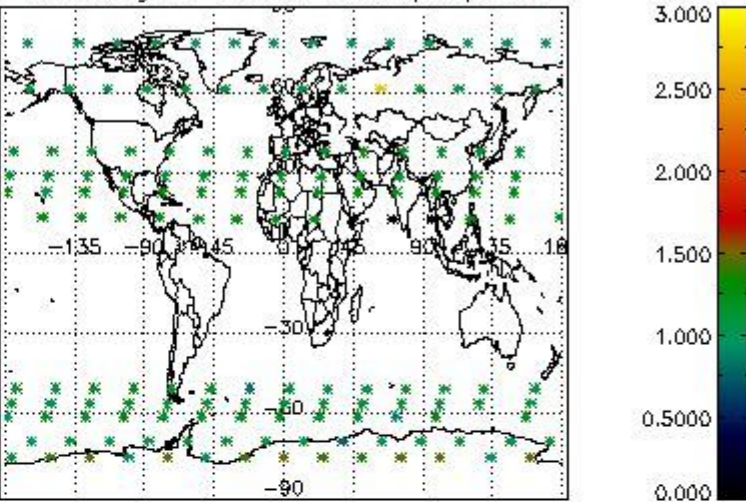


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

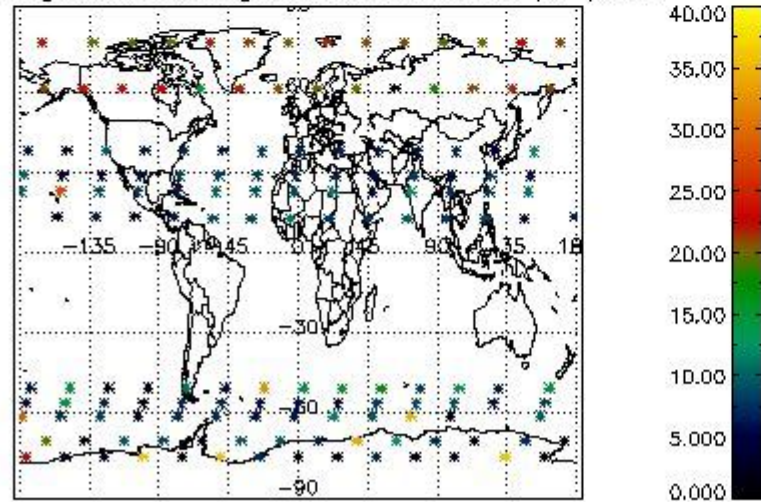
Percentage of cosmic ray hits per profile



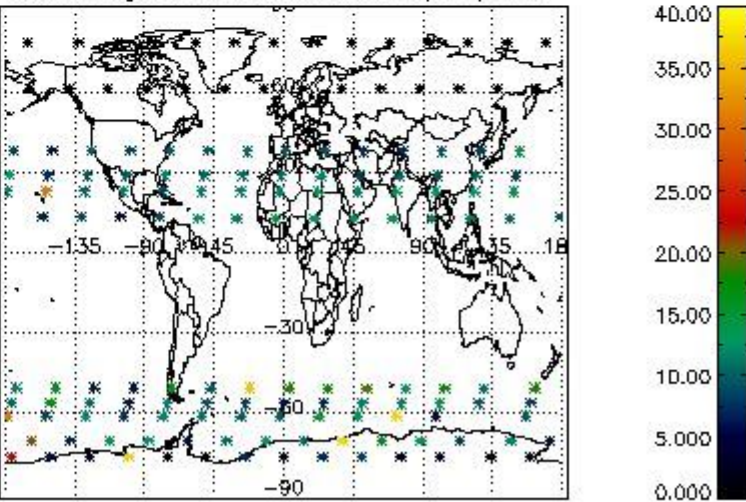
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

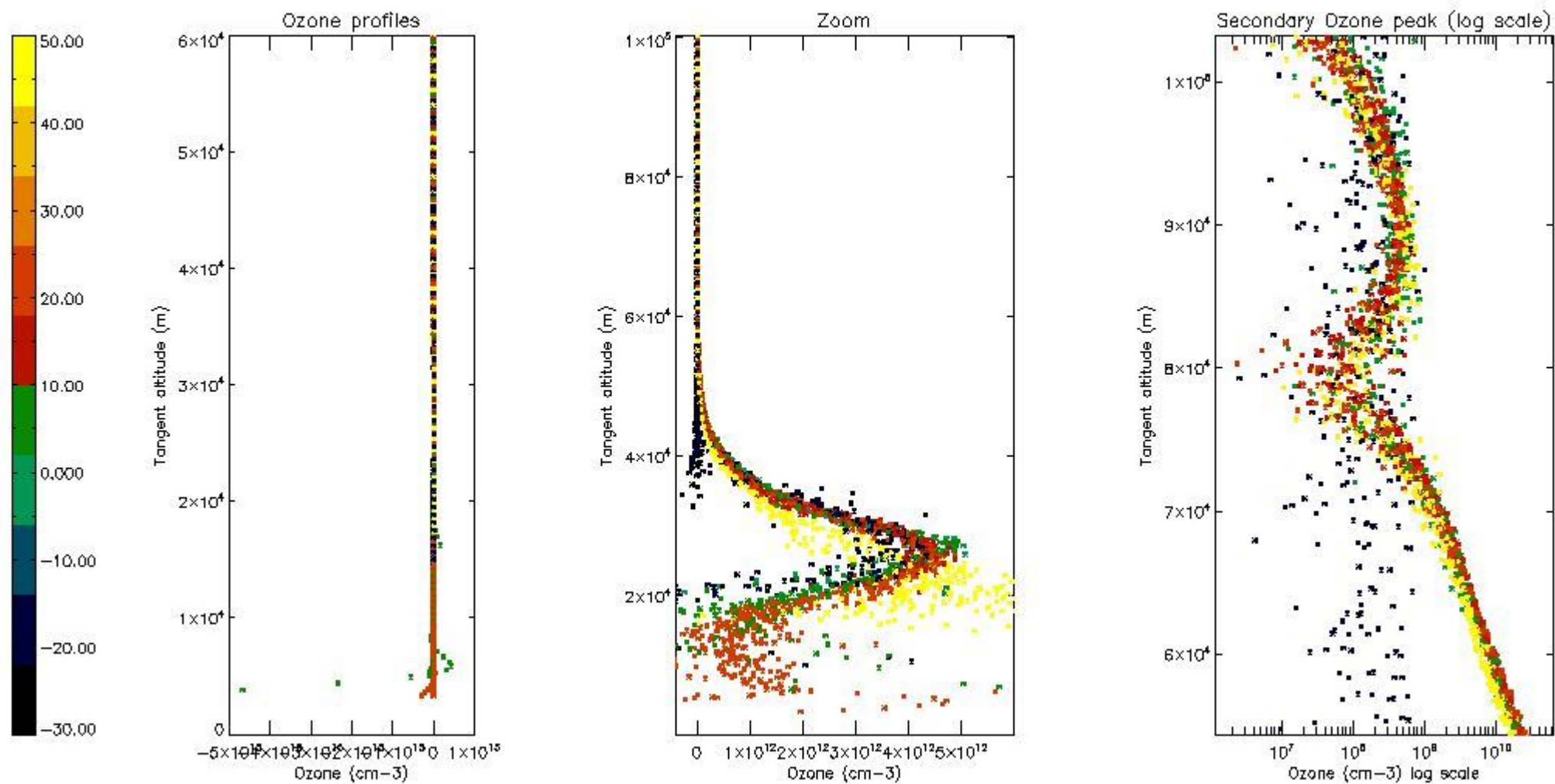
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	27
STD < 20	15

STD < 10	12
STD < 5	7

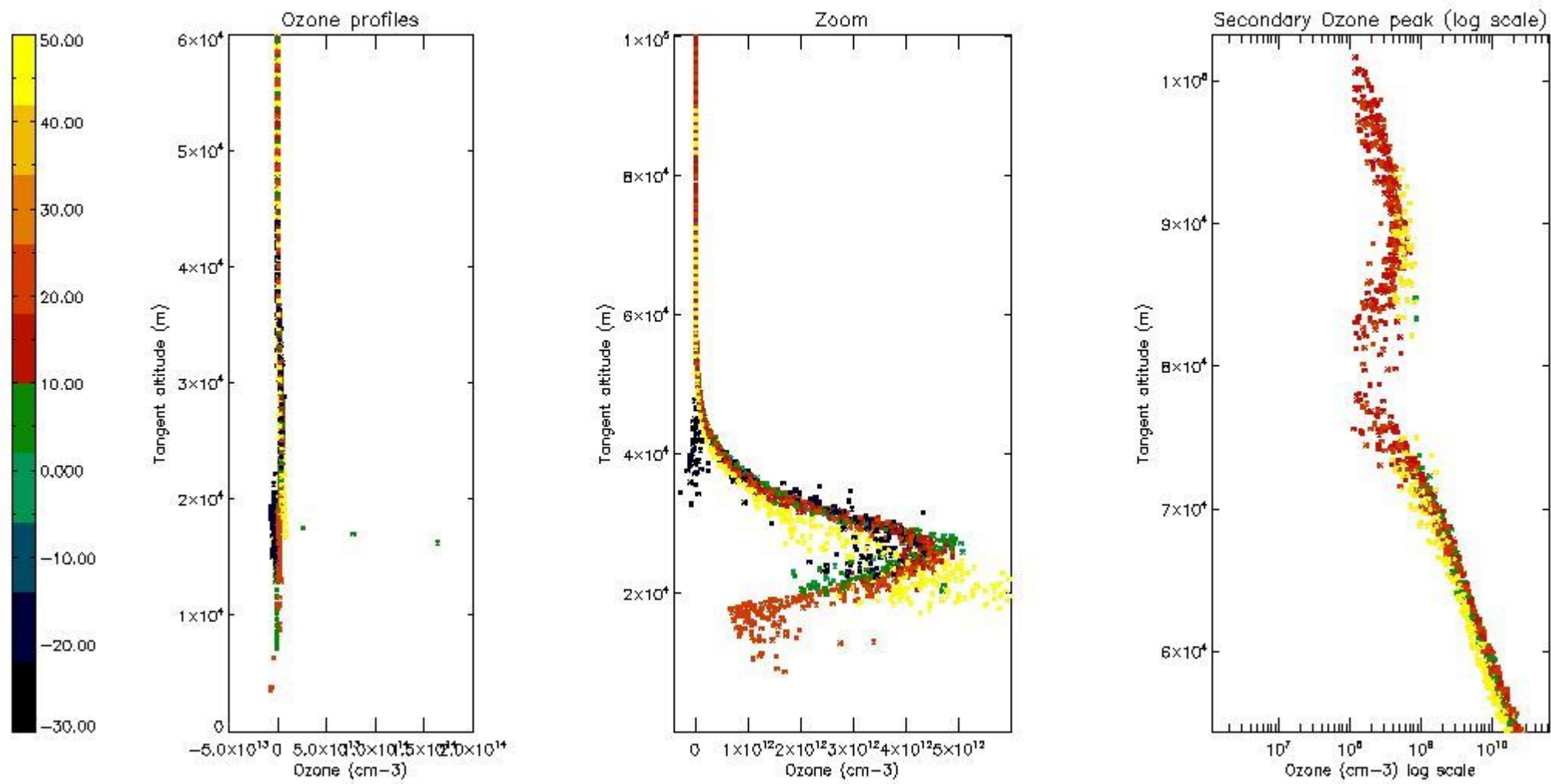
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



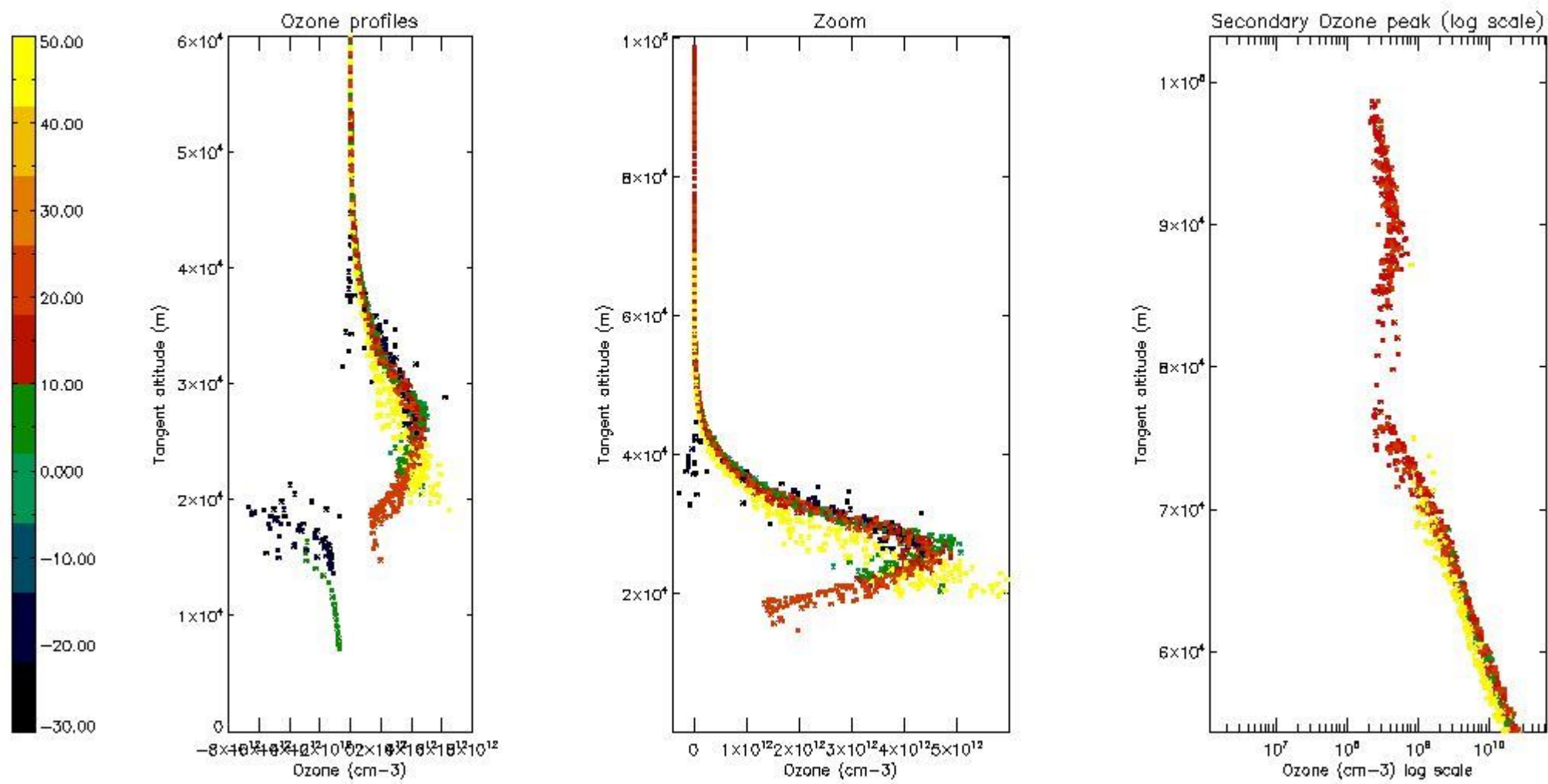
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



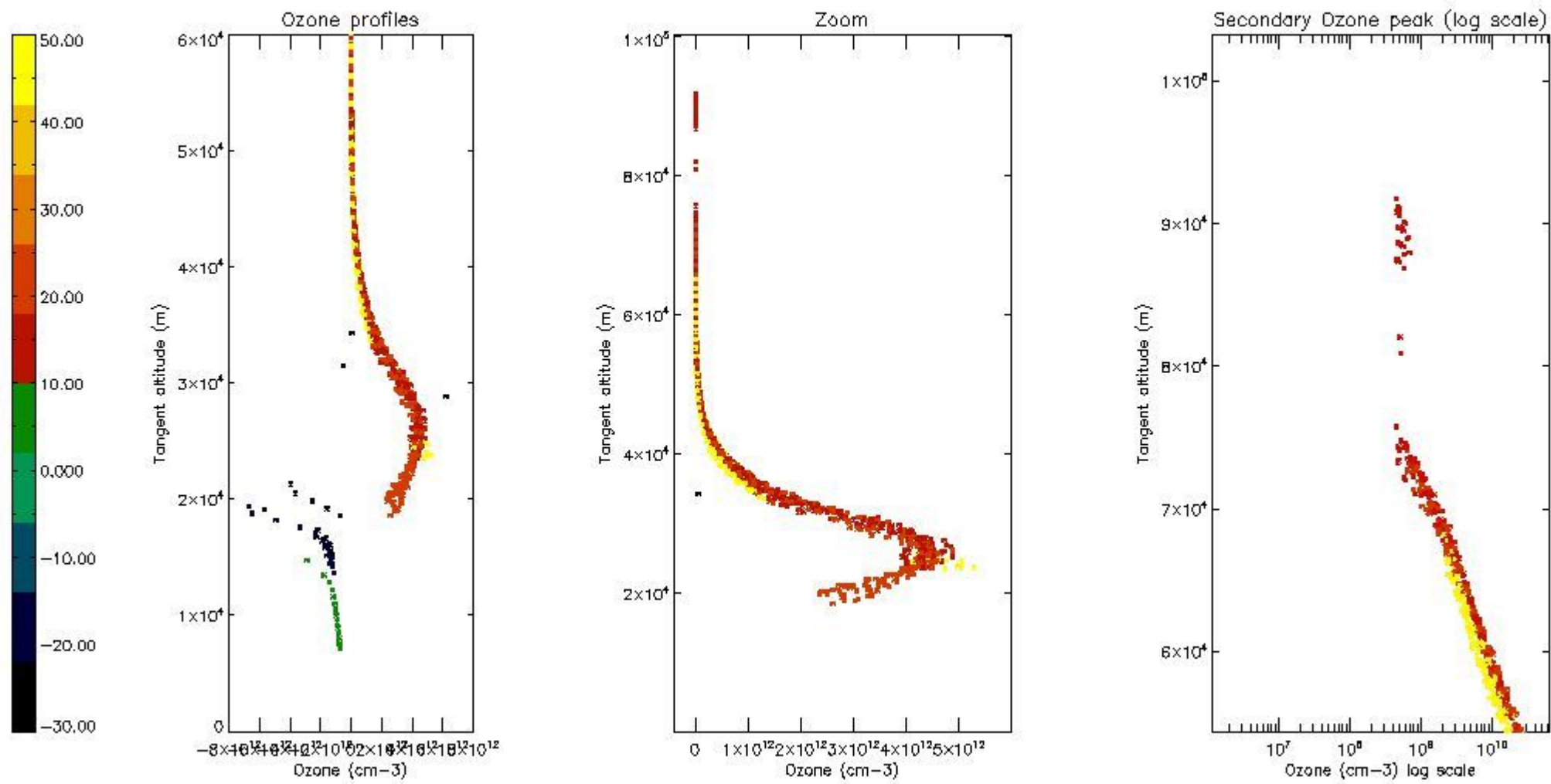
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



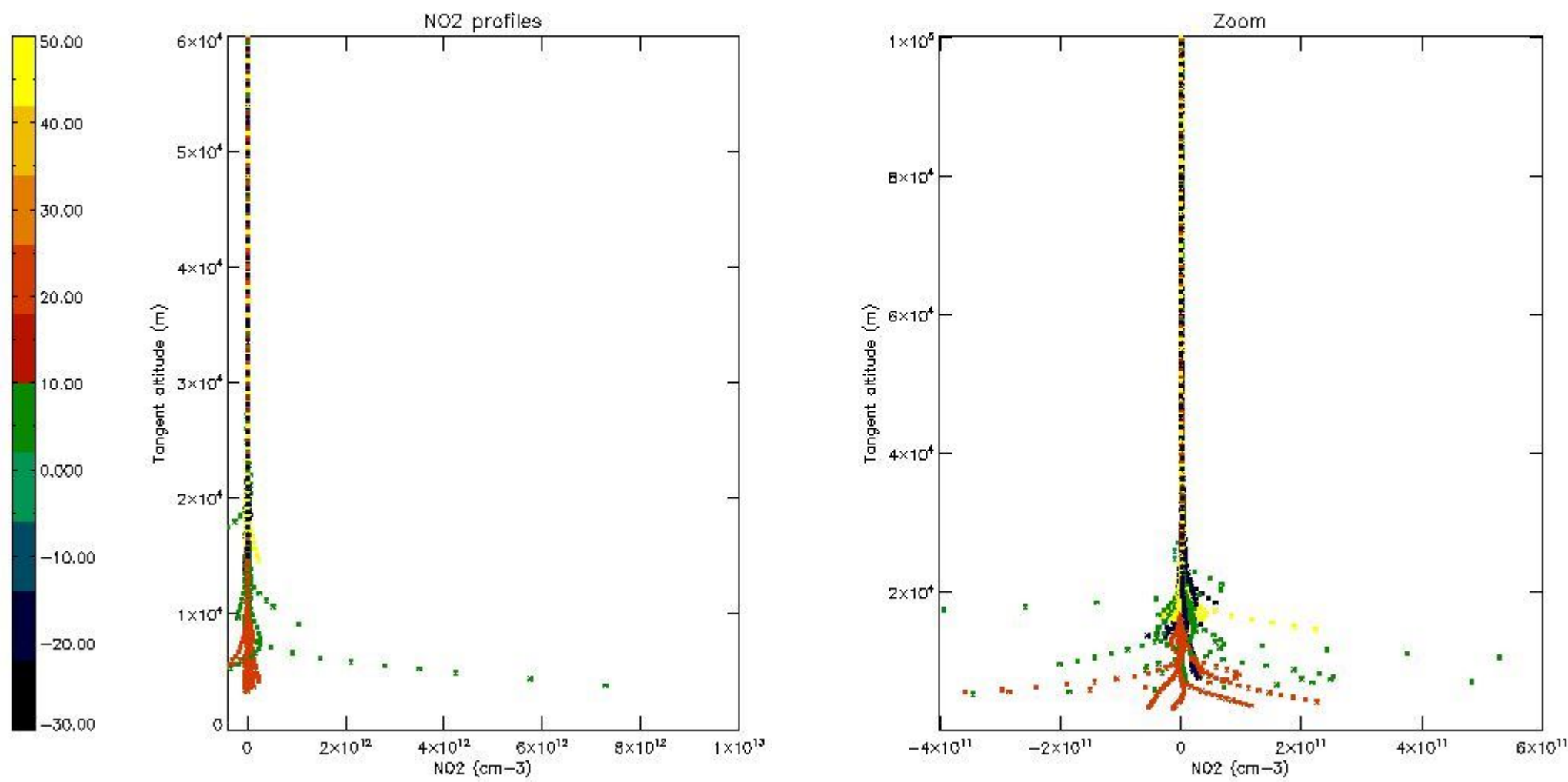
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



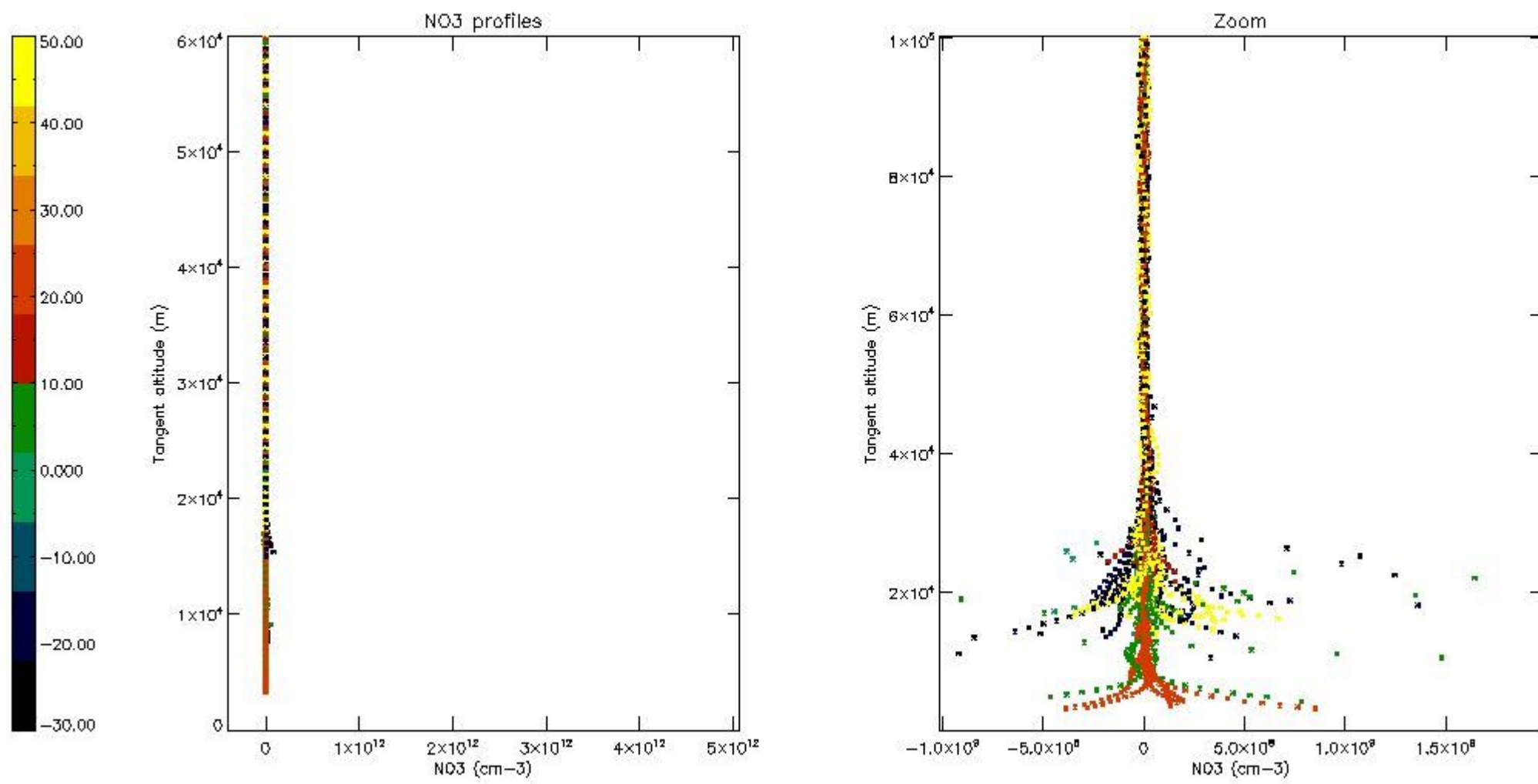
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



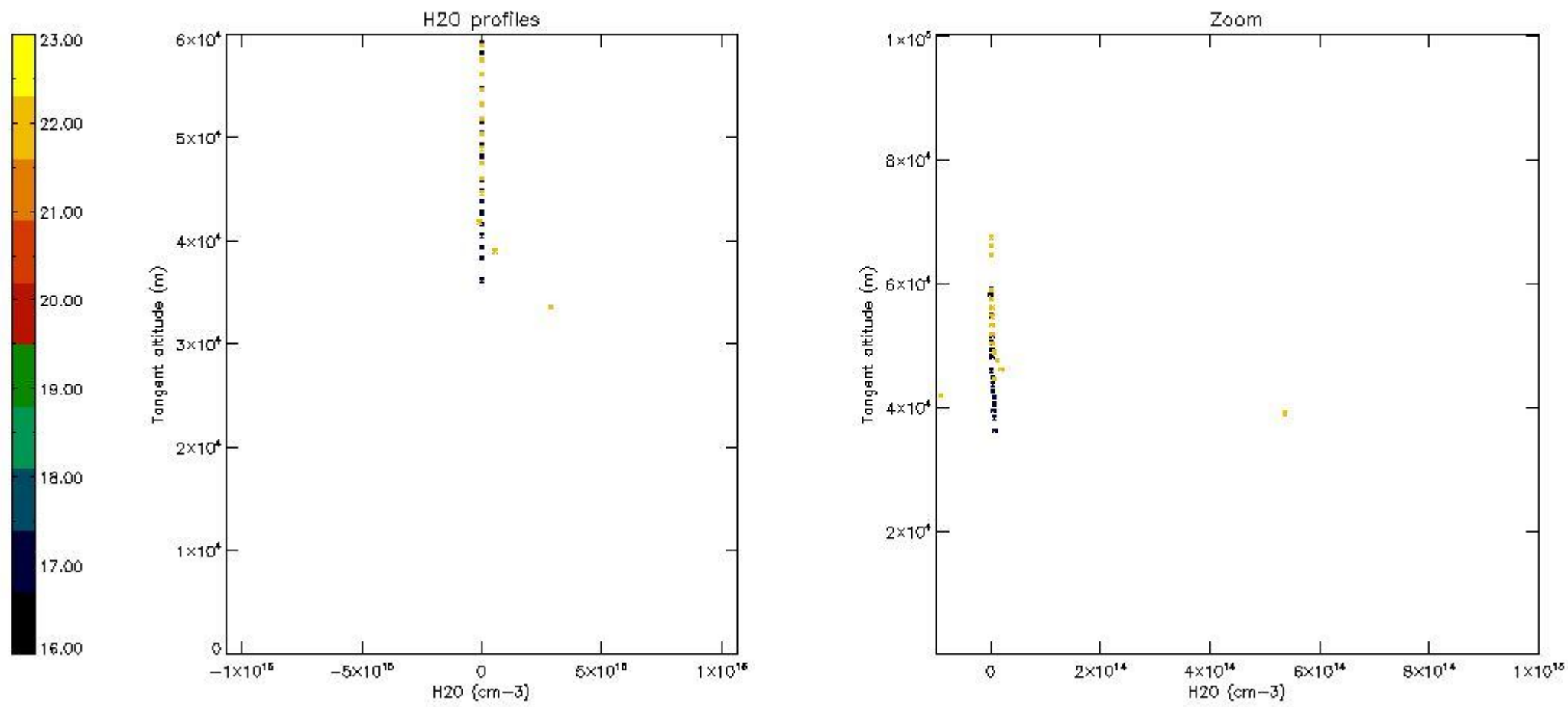
5.7 Plot NO3 profiles for all STD (dark without errors)

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	19-NOV-2009 00:04:31
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-NOV-2009 00:04:31
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-NOV-2009 00:04:31

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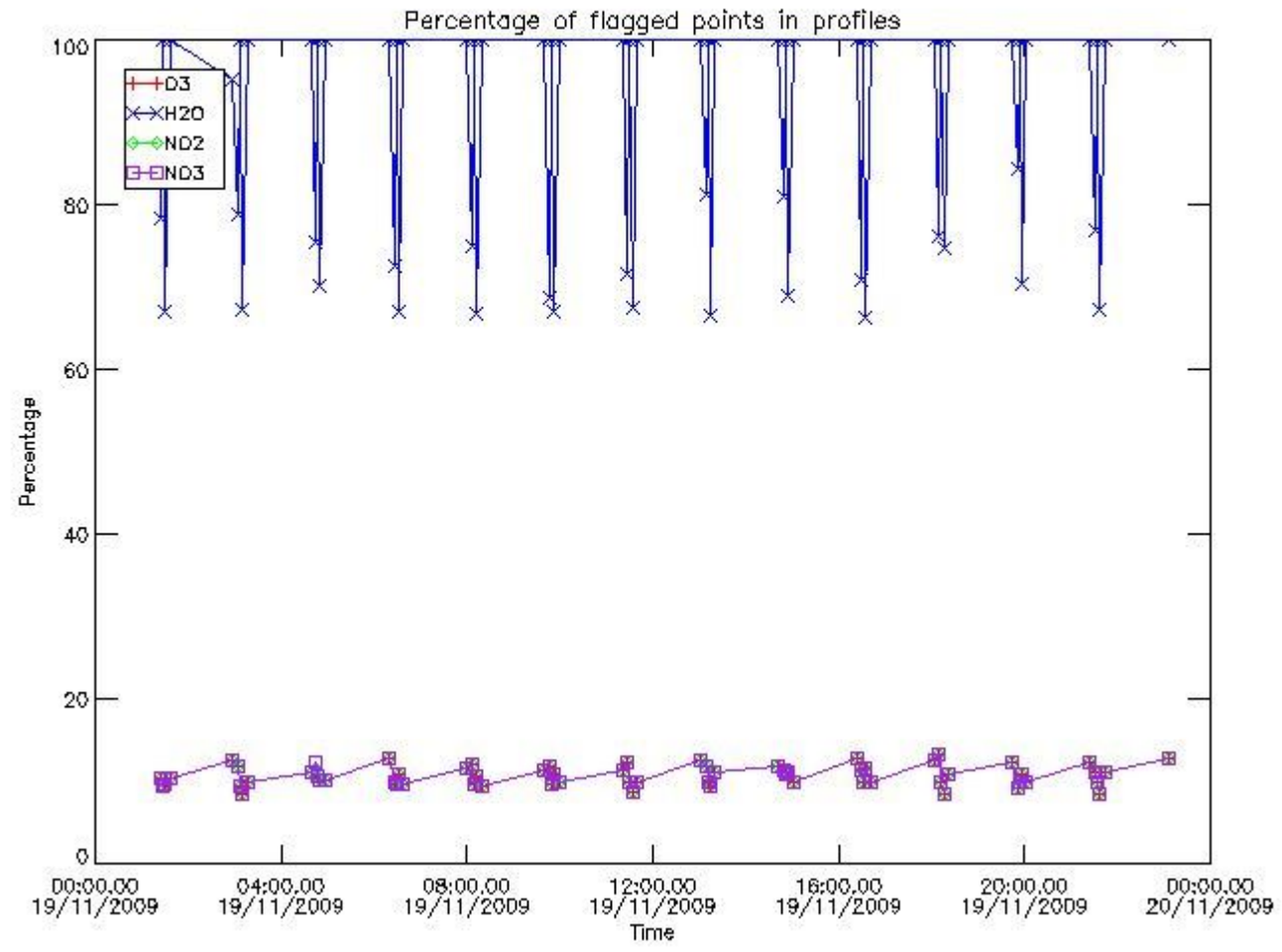
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2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20091119_000431_000000512084_00231_40365_1251.N1	19-NOV-2009 00:04:31	Straylight	51.000	165	34Gam Eri	2.9500	3200.0	102	40365	No
2	GOM_NL__2PRFIN20091119_001001_000000462084_00231_40365_1252.N1	19-NOV-2009 00:10:01	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	40365	No
3	GOM_NL__2PRFIN20091119_001643_000000452084_00231_40365_1253.N1	19-NOV-2009 00:16:43	Bright	45.000	146	25Eta Tau	2.8730	15200.	90	40365	No
4	GOM_NL__2PRFIN20091119_001919_000000422084_00231_40365_1254.N1	19-NOV-2009 00:19:19	Bright	42.000	150	44Zet Per	2.8900	28000.	84	40365	No
5	GOM_NL__2PRFIN20091119_002058_000000402084_00231_40365_1255.N1	19-NOV-2009 00:20:58	Bright	40.000	79	26Bet Per	2.3100	13100.	80	40365	No
6	GOM_NL__2PRFIN20091119_002347_000000392084_00231_40365_1256.N1	19-NOV-2009 00:23:47	Bright	38.500	35	33Alp Per	1.7950	6250.0	77	40365	No
7	GOM_NL__2PRFIN20091119_004138_000000422084_00231_40365_1257.N1	19-NOV-2009 00:41:38	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	40365	No
8	GOM_NL__2PRFIN20091119_004317_000000432084_00231_40365_1258.N1	19-NOV-2009 00:43:17	Bright	42.500	82	48Bet UMa	2.3650	10600.	85	40365	No
9	GOM_NL__2PRFIN20091119_004726_000000442084_00231_40365_1259.N1	19-NOV-2009 00:47:26	Bright	44.000	174	52Psi UMa	3.0040	4400.0	88	40365	No
10	GOM_NL__2PRFIN20091119_004922_000000342084_00231_40365_1260.N1	19-NOV-2009 00:49:22	Bright	34.000	152	12Alp2CVn	2.8900	11000.	68	40365	No
11	GOM_NL__2PRFIN20091119_005737_000000542084_00231_40365_1261.N1	19-NOV-2009 00:57:37	Bright	53.500	62	94Bet Leo	2.1360	9700.0	107	40365	No
12	GOM_NL__2PRFIN20091119_010107_000000452084_00231_40365_1262.N1	19-NOV-2009 01:01:07	Bright	45.000	121	29Gam Vir	2.7400	7200.0	90	40365	No
13	GOM_NL__2PRFIN20091119_010616_000000442084_00231_40365_1263.N1	19-NOV-2009 01:06:16	Twilight	43.500	100	4Gam Crv	2.5800	13100.	87	40365	No
14	GOM_NL__2PRFIN20091119_010748_000000442084_00231_40365_1264.N1	19-NOV-2009 01:07:48	Twilight	43.500	171	2Eps Crv	3.0010	4250.0	87	40365	No
15	GOM_NL__2PRFIN20091119_012401_000000492084_00232_40366_1257.N1	19-NOV-2009 01:24:01	Dark	49.000	41	Eps Car	1.8600	4100.0	98	40366	No
16	GOM_NL__2PRFIN20091119_012620_000000542084_00232_40366_1258.N1	19-NOV-2009 01:26:20	Dark	54.000	70	Zet Pup	2.2460	39000.	108	40366	No
17	GOM_NL__2PRFIN20091119_012931_000000542084_00232_40366_1259.N1	19-NOV-2009 01:29:31	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	40366	No
18	GOM_NL__2PRFIN20091119_013612_000000542084_00232_40366_1260.N1	19-NOV-2009 01:36:12	Dark	53.500	108	Alp Col	2.6520	15200.	107	40366	No
19	GOM_NL__2PRFIN20091119_014507_000000502084_00232_40366_1261.N1	19-NOV-2009 01:45:07	Straylight	50.000	165	34Gam Eri	2.9500	3200.0	100	40366	No
20	GOM_NL__2PRFIN20091119_015036_000000462084_00232_40366_1262.N1	19-NOV-2009 01:50:36	Twilight	46.000	94	92Alp Cet	2.5260	3100.0	92	40366	No
21	GOM_NL__2PRFIN20091119_015719_000000432084_00232_40366_1263.N1	19-NOV-2009 01:57:19	Bright	42.500	146	25Eta Tau	2.8730	15200.	85	40366	No
22	GOM_NL__2PRFIN20091119_015954_000000442084_00232_40366_1264.N1	19-NOV-2009 01:59:54	Bright	43.500	150	44Zet Per	2.8900	28000.	87	40366	No
23	GOM_NL__2PRFIN20091119_020134_000000402084_00232_40366_1265.N1	19-NOV-2009 02:01:34	Bright	39.500	79	26Bet Per	2.3100	13100.	79	40366	No
24	GOM_NL__2PRFIN20091119_020423_000000402084_00232_40366_1266.N1	19-NOV-2009 02:04:23	Bright	39.500	35	33Alp Per	1.7950	6250.0	79	40366	No
25	GOM_NL__2PRFIN20091119_022214_000000462084_00232_40366_1267.N1	19-NOV-2009 02:22:14	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	40366	No
26	GOM_NL__2PRFIN20091119_022353_000000452084_00232_40366_1268.N1	19-NOV-2009 02:23:53	Bright	45.000	82	48Bet UMa	2.3650	10600.	90	40366	No
27	GOM_NL__2PRFIN20091119_022515_000000382084_00232_40366_1269.N1	19-NOV-2009 02:25:15	Bright	38.000	87	64Gam UMa	2.4330	11000.	76	40366	No
28	GOM_NL__2PRFIN20091119_022801_000000482084_00232_40366_1270.N1	19-NOV-2009 02:28:01	Bright	47.500	174	52Psi UMa	3.0040	4400.0	95	40366	No
29	GOM_NL__2PRFIN20091119_022958_000000342084_00232_40366_1271.N1	19-NOV-2009 02:29:58	Bright	34.000	152	12Alp2CVn	2.8900	11000.	68	40366	No
30	GOM_NL__2PRFIN20091119_023813_000000412084_00232_40366_1272.N1	19-NOV-2009 02:38:13	Bright	40.500	62	94Bet Leo	2.1360	9700.0	81	40366	No
31	GOM_NL__2PRFIN20091119_024143_000000392084_00232_40366_1273.N1	19-NOV-2009 02:41:43	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	40366	No
32	GOM_NL__2PRFIN20091119_024653_000000442084_00232_40366_1274.N1	19-NOV-2009 02:46:53	Twilight	44.000	100	4Gam Crv	2.5800	13100.	88	40366	No
33	GOM_NL__2PRFIN20091119_025745_000000412084_00232_40366_1275.N1	19-NOV-2009 02:57:45	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	40366	No
34	GOM_NL__2PRFIN20091119_030437_000000432084_00233_40367_1266.N1	19-NOV-2009 03:04:37	Dark	43.000	41	Eps Car	1.8600	4100.0	86	40367	No
35	GOM_NL__2PRFIN20091119_030657_000000542084_00233_40367_1267.N1	19-NOV-2009 03:06:57	Dark	54.000	70	Zet Pup	2.2460	39000.	108	40367	No
36	GOM_NL__2PRFIN20091119_031008_000000602084_00233_40367_1268.N1	19-NOV-2009 03:10:08	Dark	60.000	2	Alp Car	-0.73600	7000.0	120	40367	No
37	GOM_NL__2PRFIN20091119_031648_000000522084_00233_40367_1269.N1	19-NOV-2009 03:16:48	Dark	52.000	108	Alp Col	2.6520	15200.	104	40367	No
38	GOM_NL__2PRFIN20091119_032543_000000512084_00233_40367_1270.N1	19-NOV-2009 03:25:43	Straylight	51.000	165	34Gam Eri	2.9500	3200.0	102	40367	No
39	GOM_NL__2PRFIN20091119_033112_000000462084_00233_40367_1271.N1	19-NOV-2009 03:31:12	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	40367	No
40	GOM_NL__2PRFIN20091119_033755_000000432084_00233_40367_1272.N1	19-NOV-2009 03:37:55	Bright	42.500	146	25Eta Tau	2.8730	15200.	85	40367	No
41	GOM_NL__2PRFIN20091119_034029_000000432084_00233_40367_1273.N1	19-NOV-2009 03:40:29	Bright	43.000	150	44Zet Per	2.8900	28000.	86	40367	No
42	GOM_NL__2PRFIN20091119_034209_000000402084_00233_40367_1274.N1	19-NOV-2009 03:42:09	Bright	39.500	79	26Bet Per	2.3100	13100.	79	40367	No

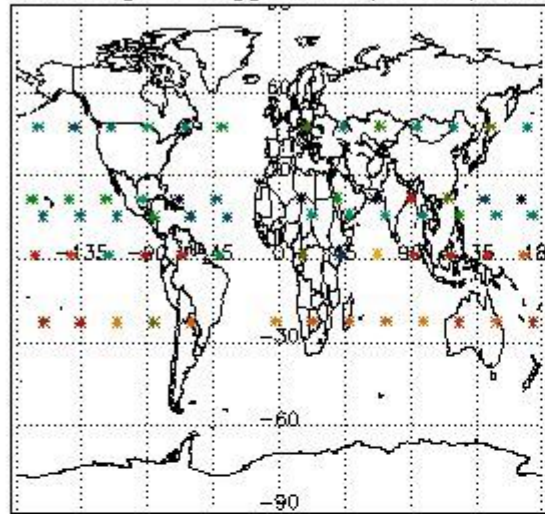
the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

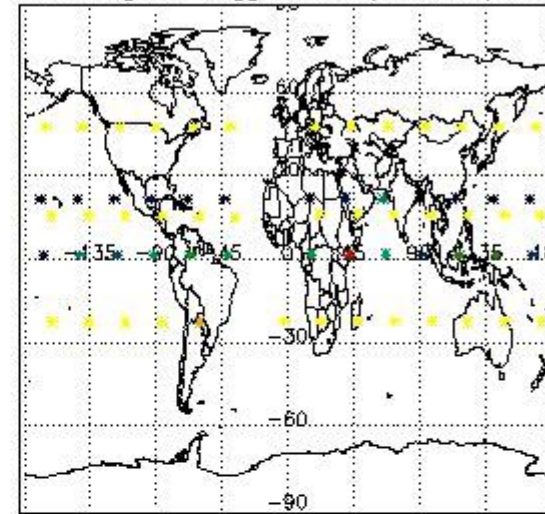


3.2 Plot quality information per product (world map)

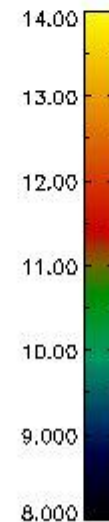
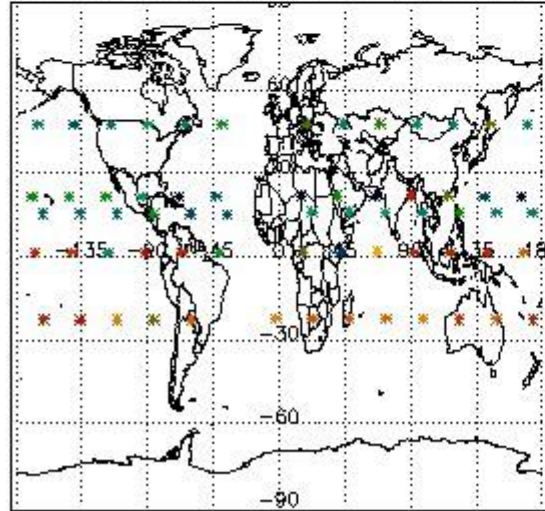
Percentage of flagged data per O3 profile



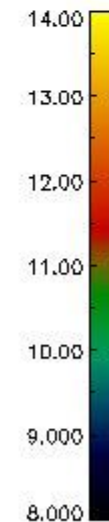
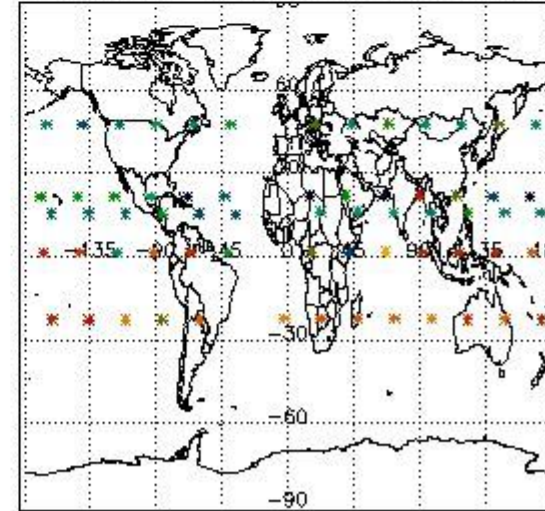
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

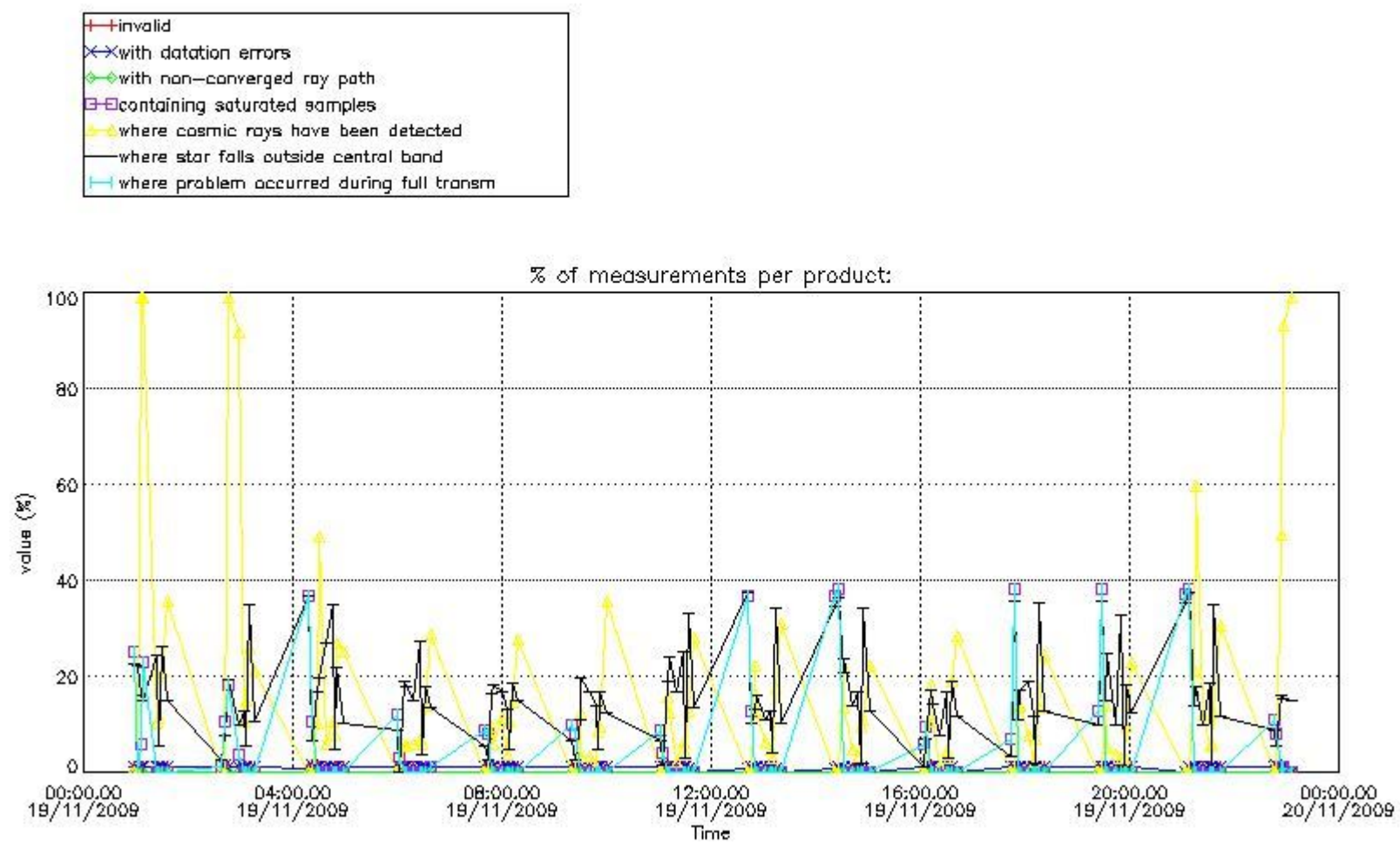


4. Level 1 quality information per product

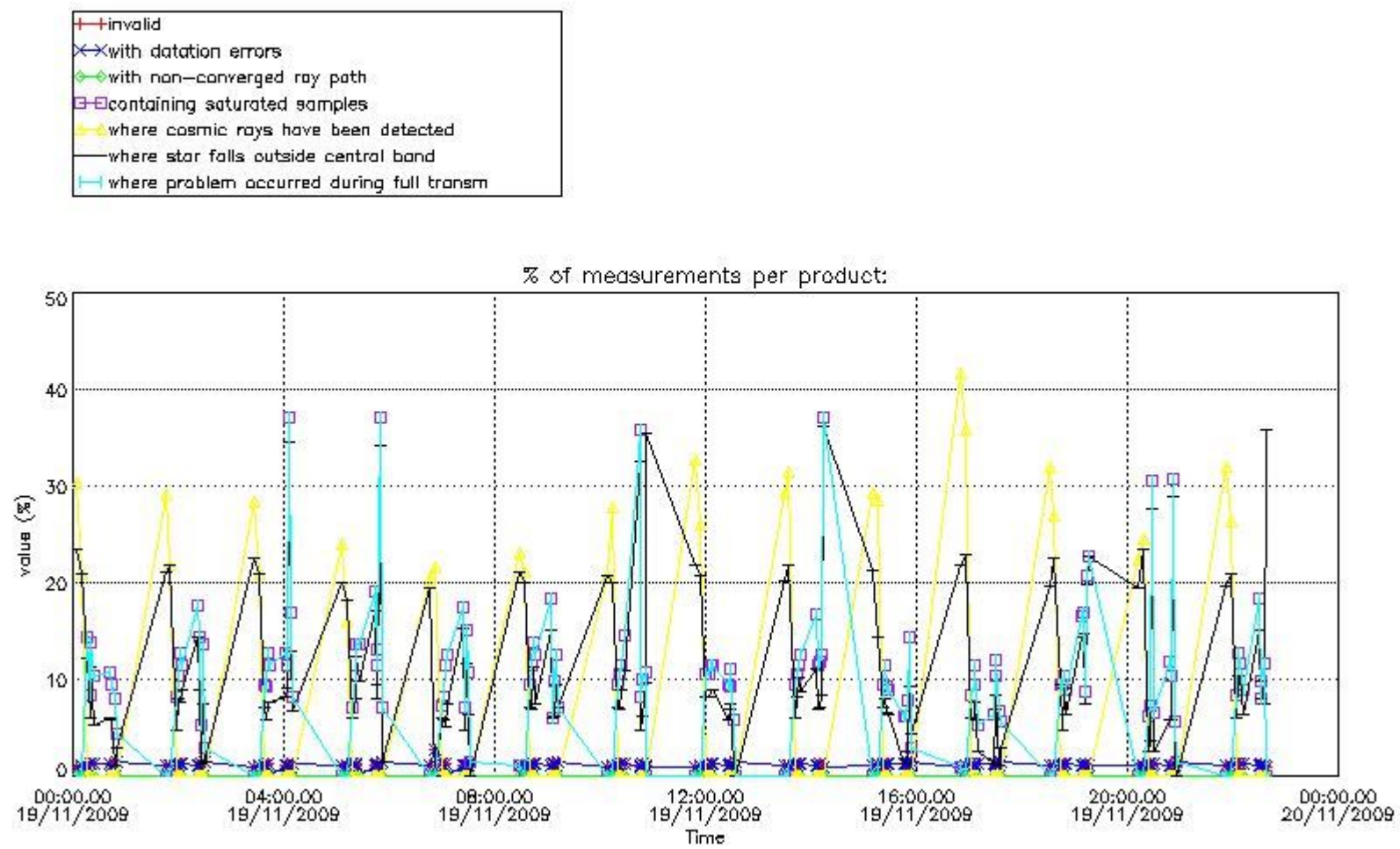
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



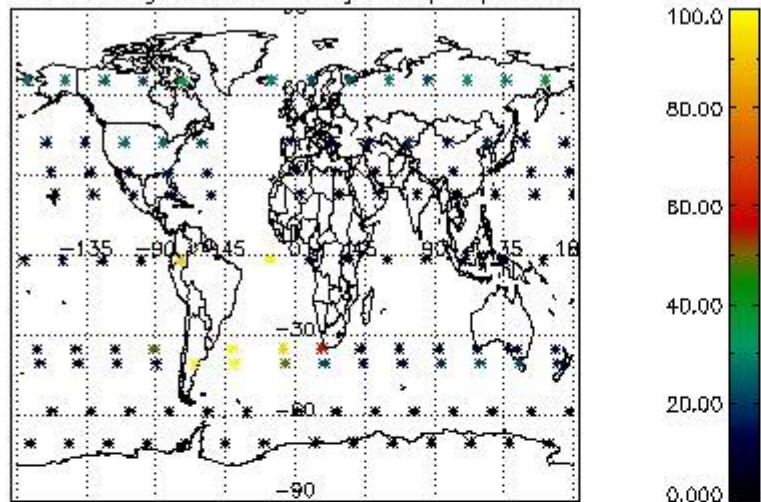
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



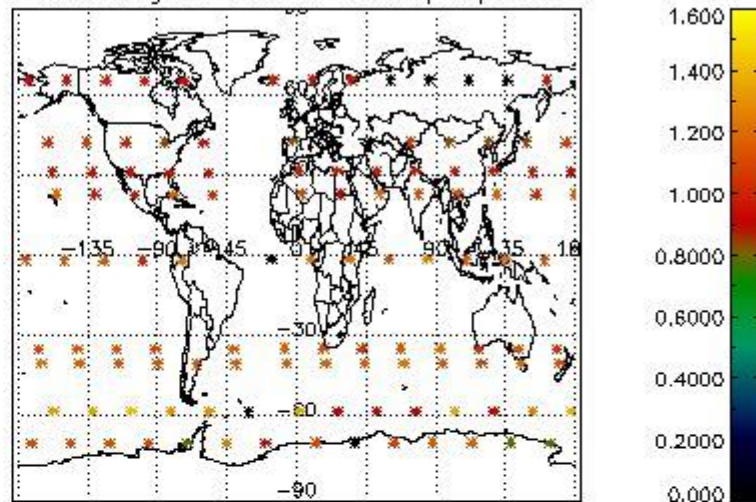
4.2 Plot quality information per product coming from level 1b processing (world map)

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

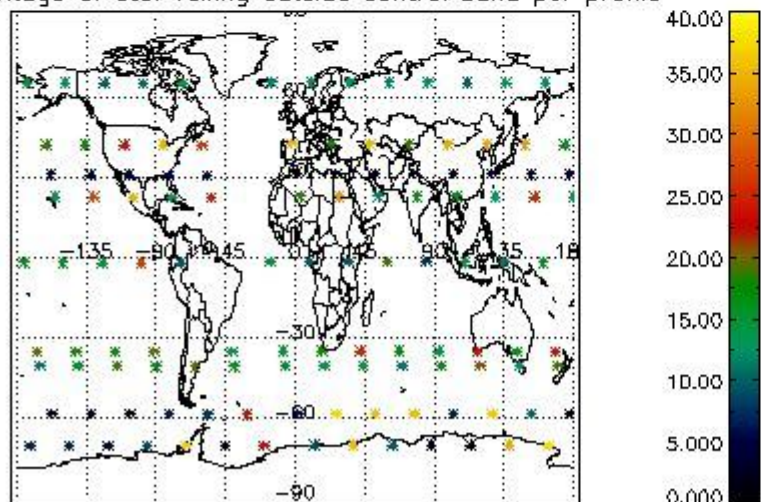
Percentage of cosmic ray hits per profile



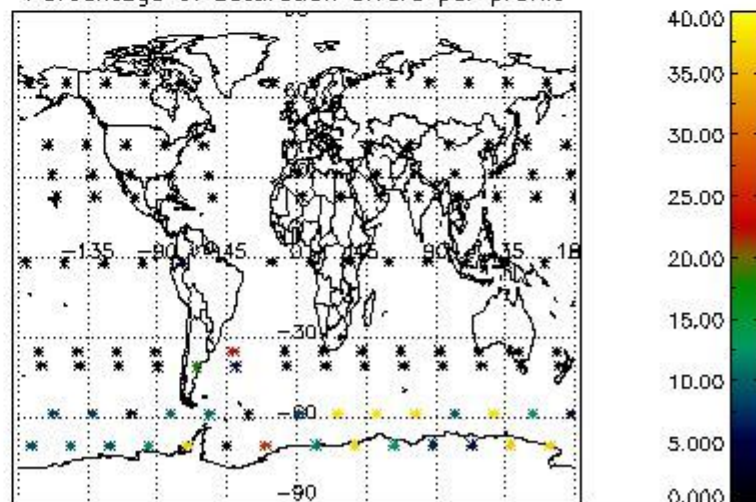
Percentage of datation errors per profile



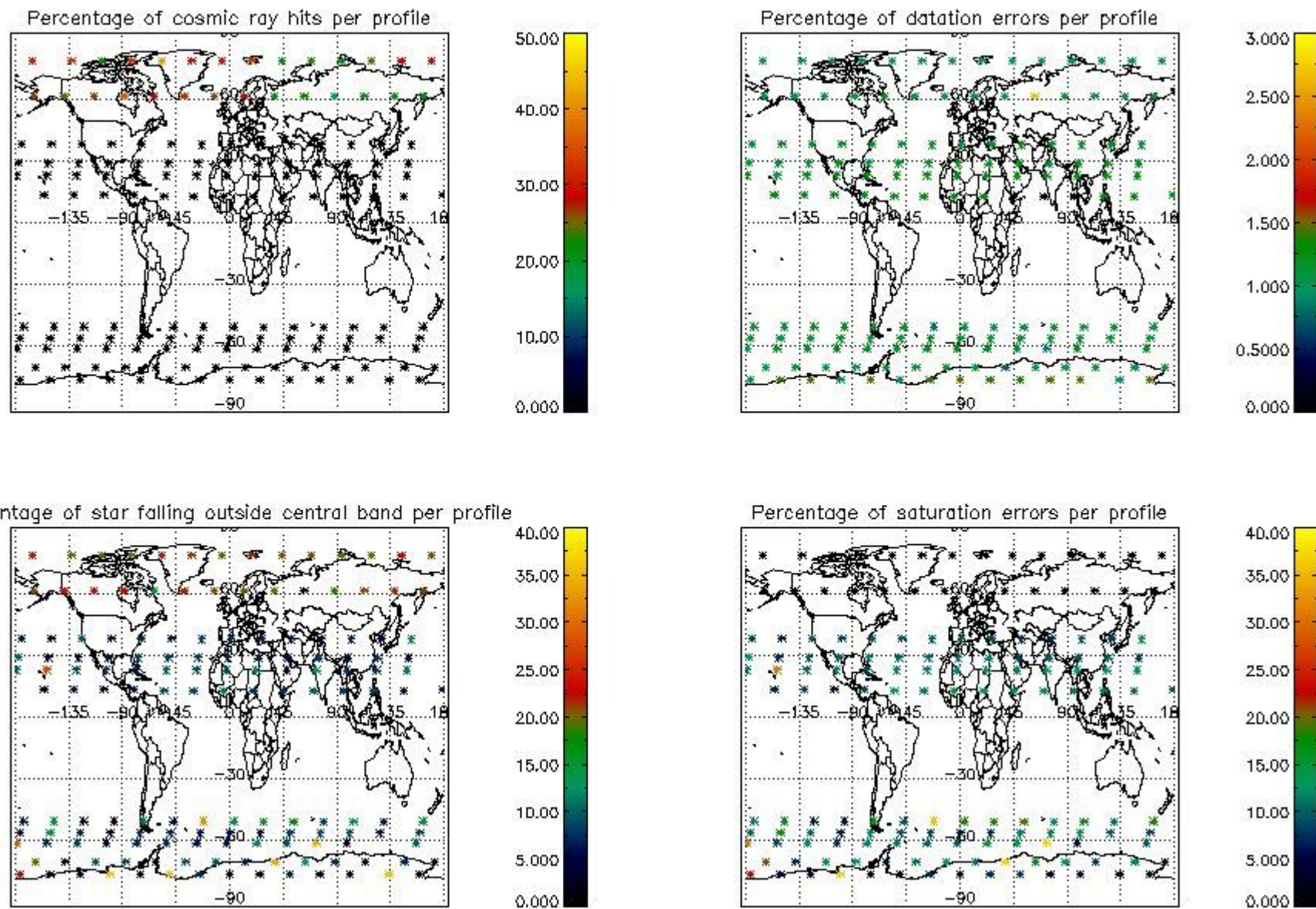
Percentage of star falling outside central band per profile



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

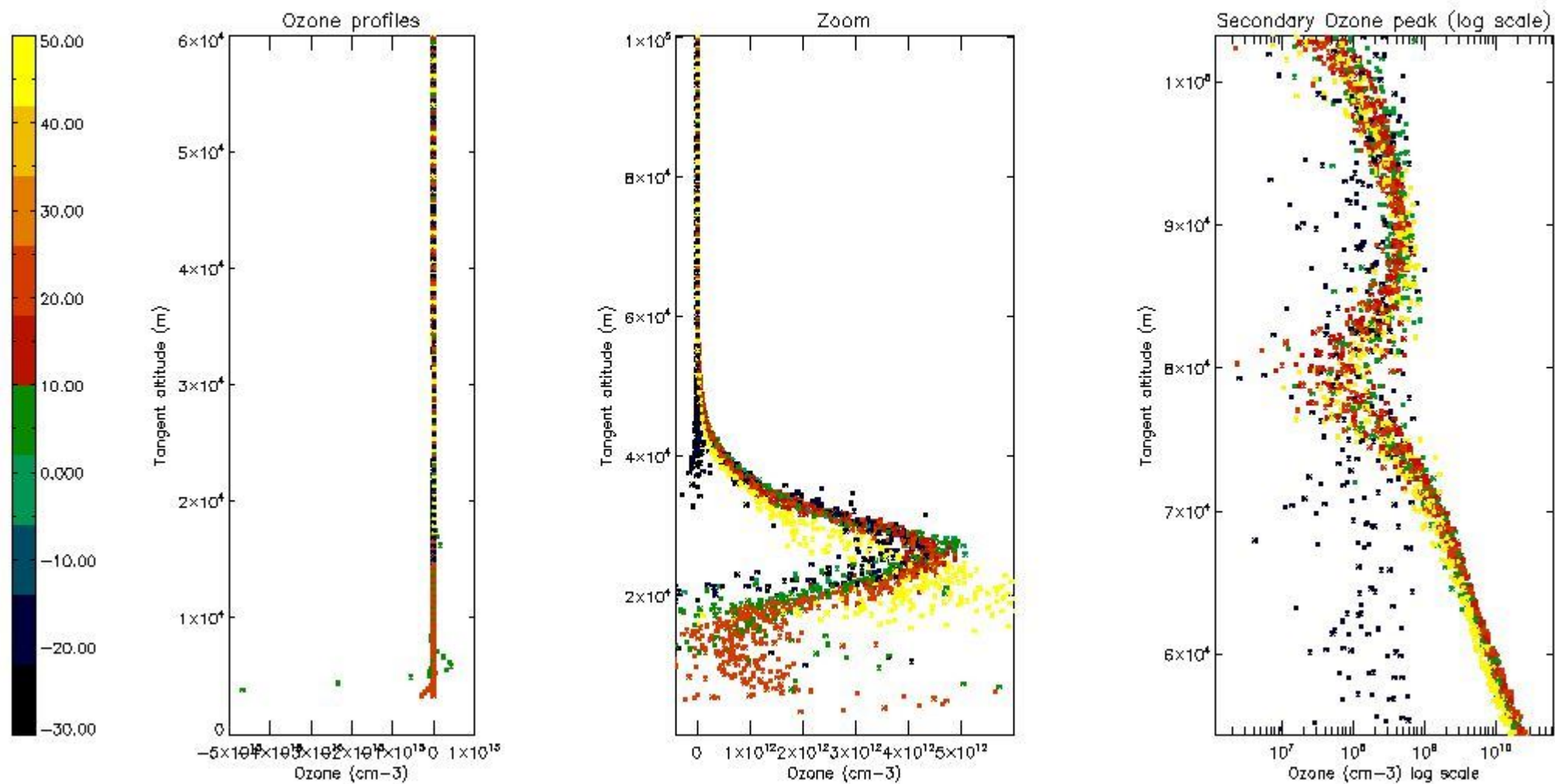
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	27
STD < 20	15

STD < 10	12
STD < 5	7

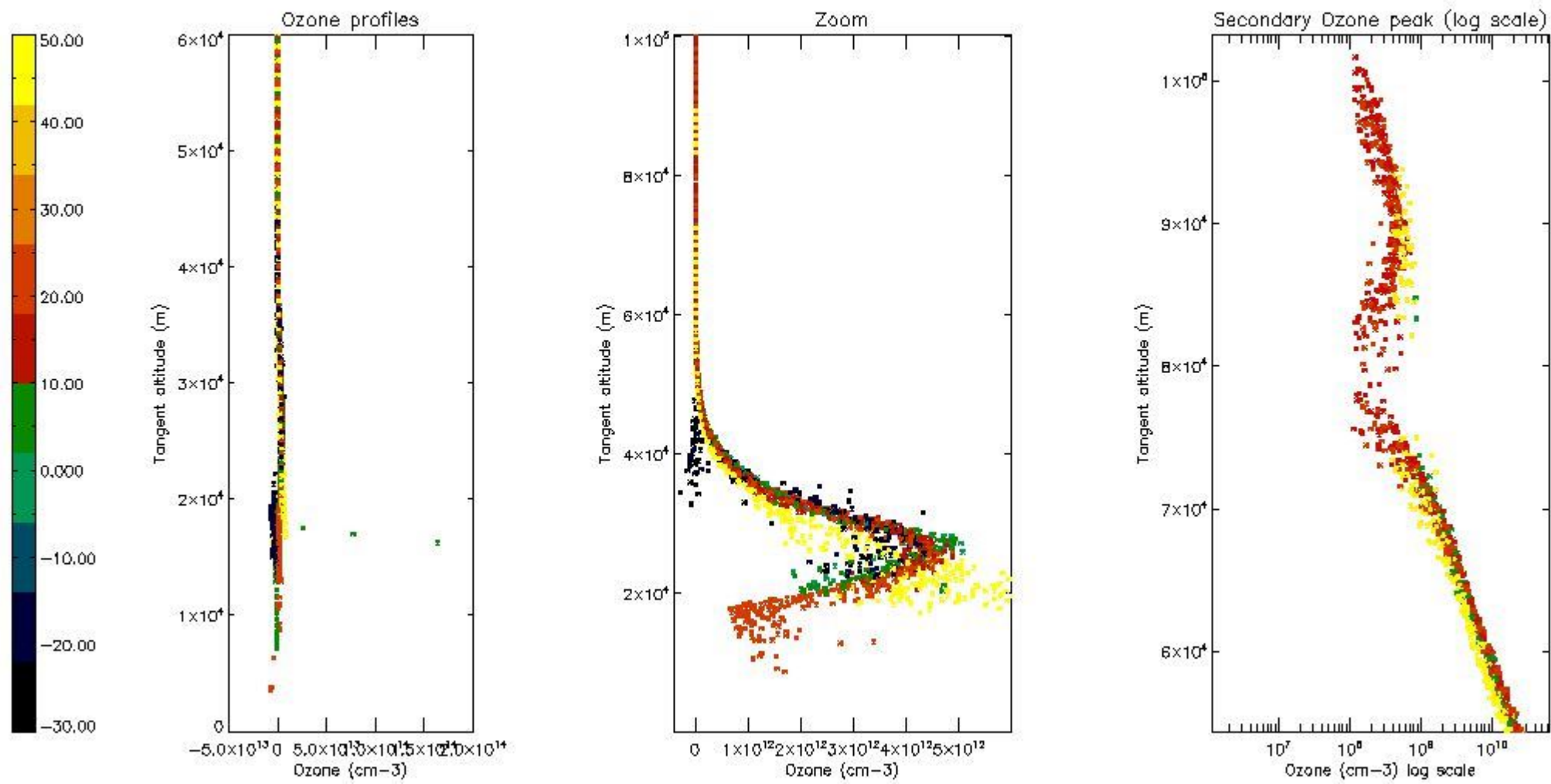
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



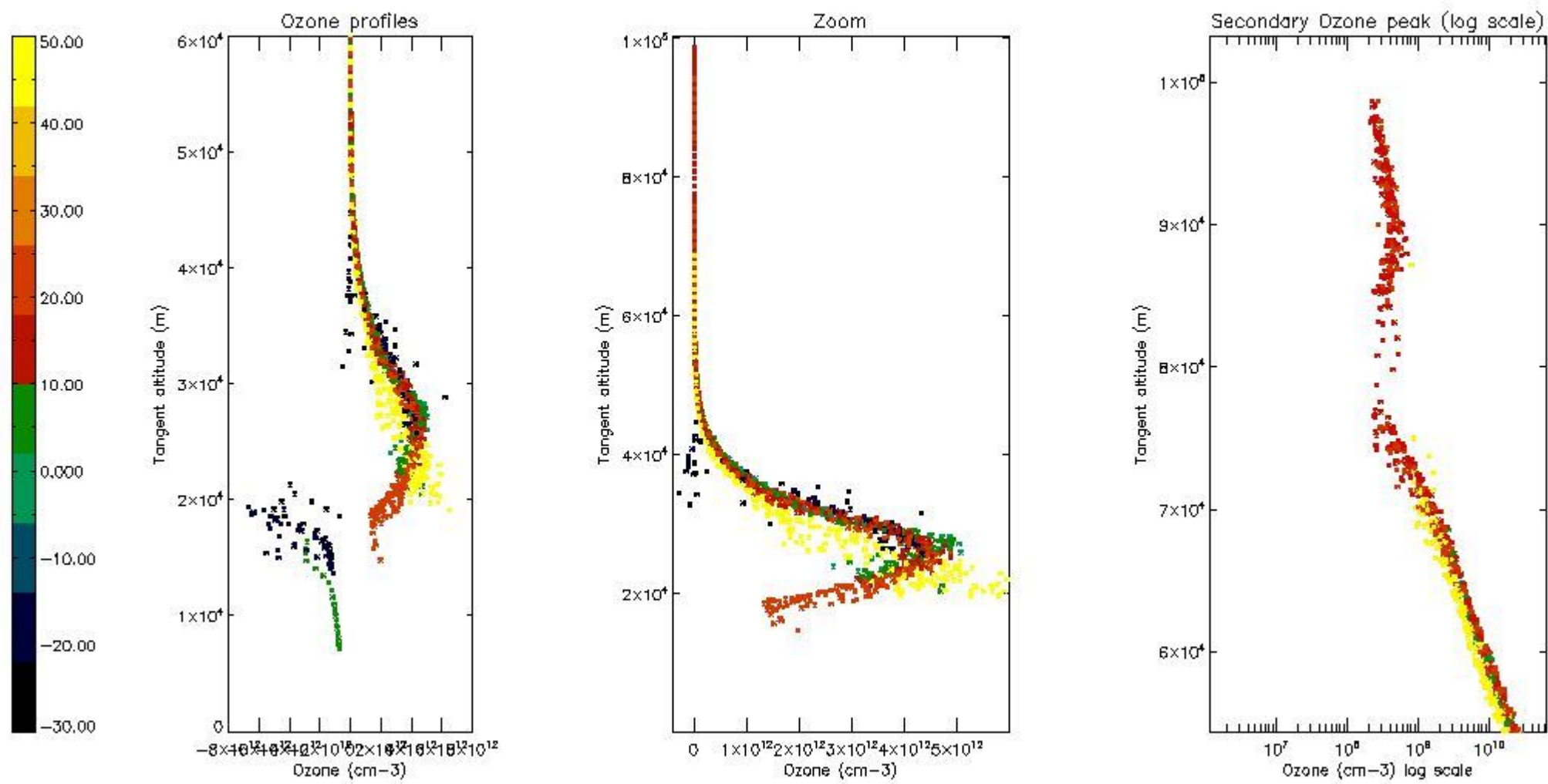
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



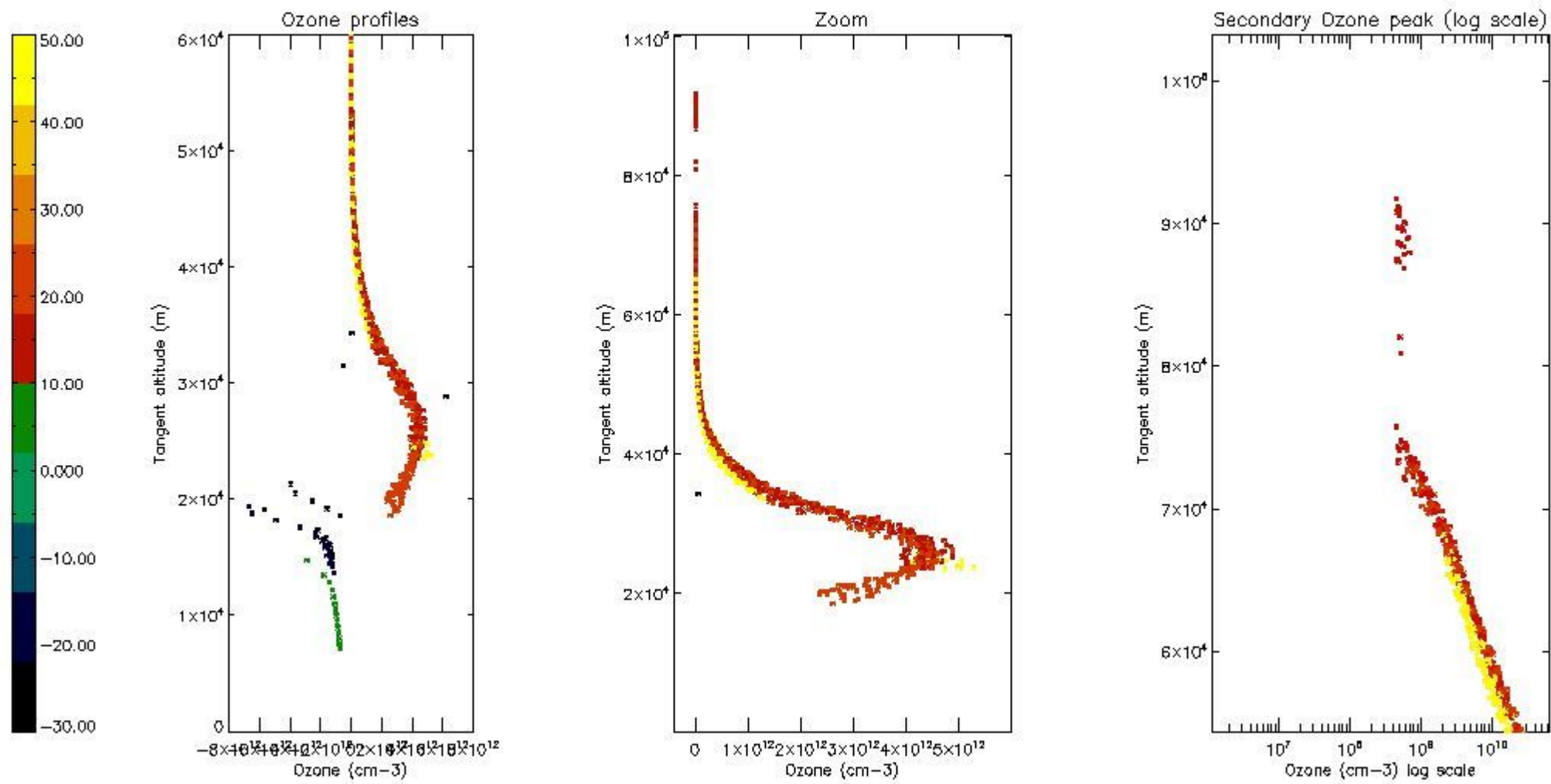
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



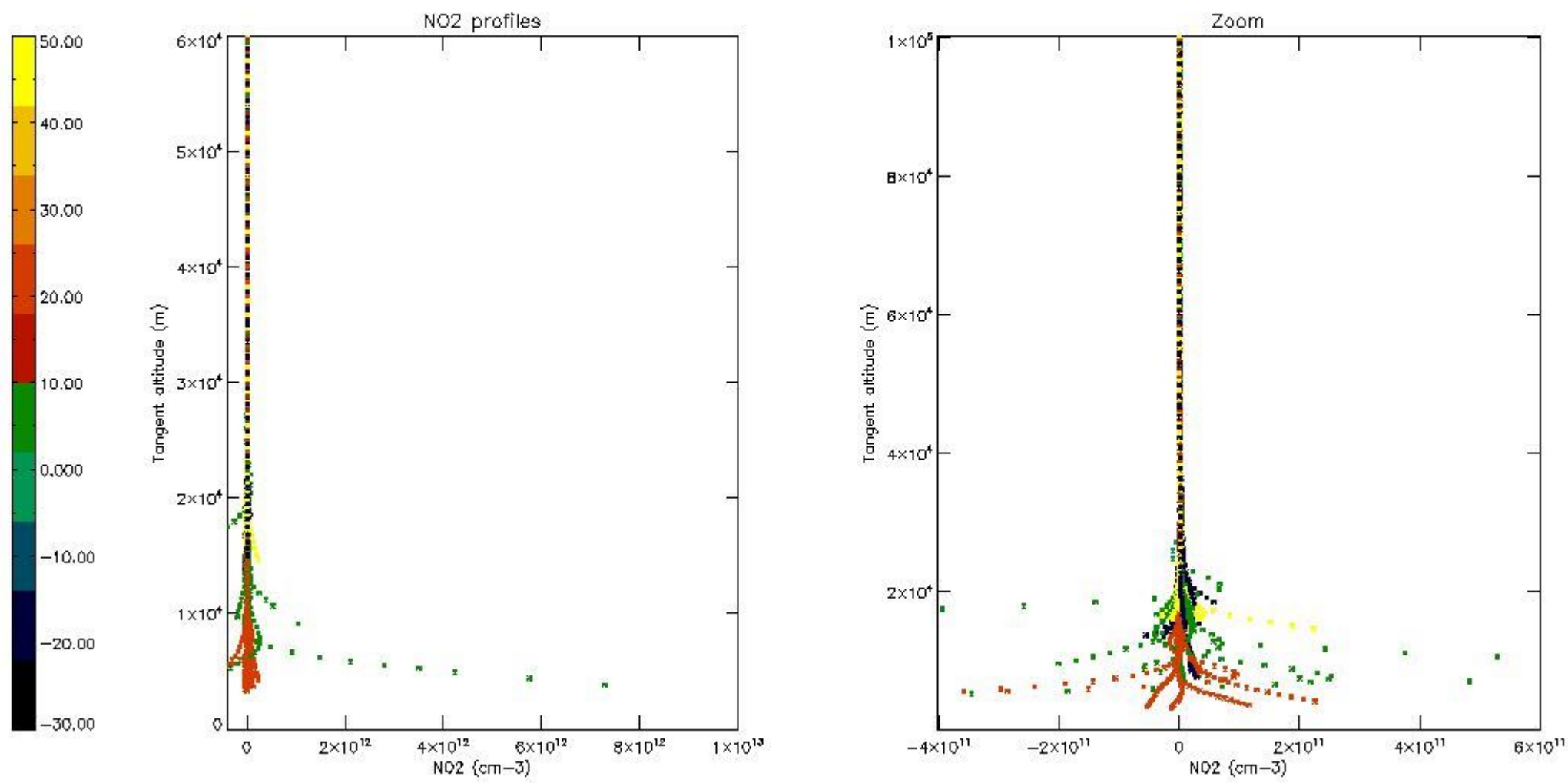
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



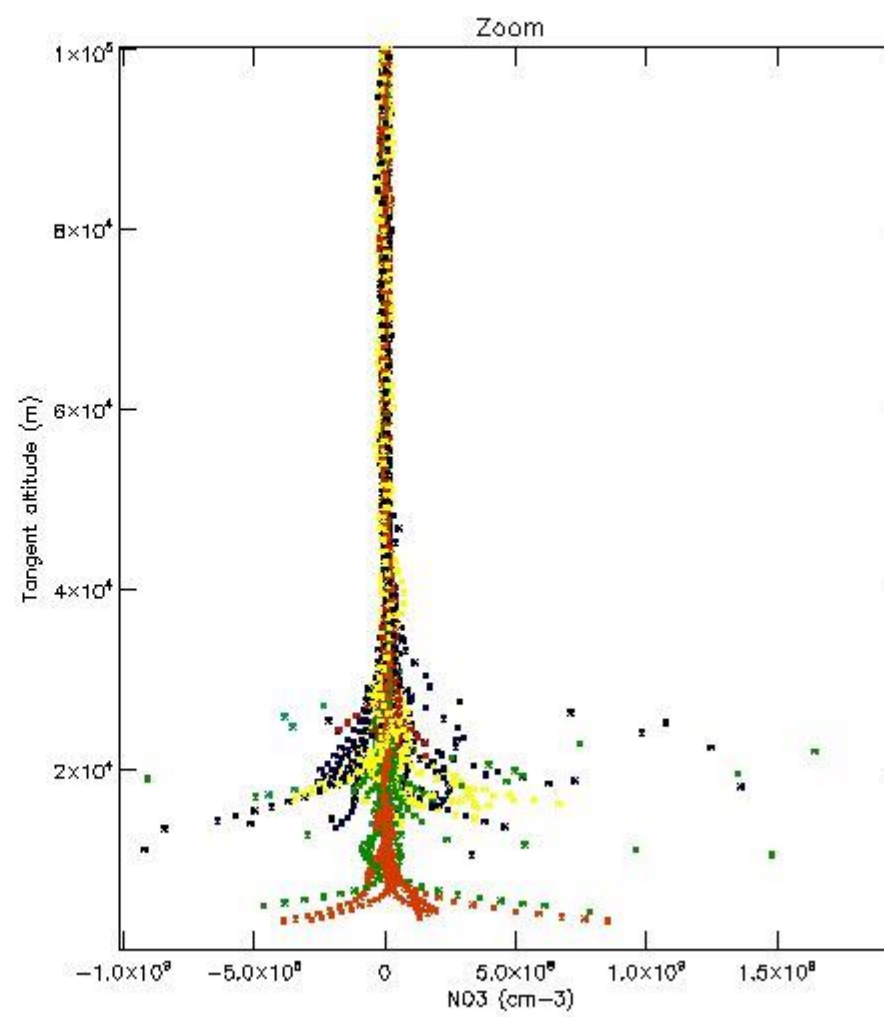
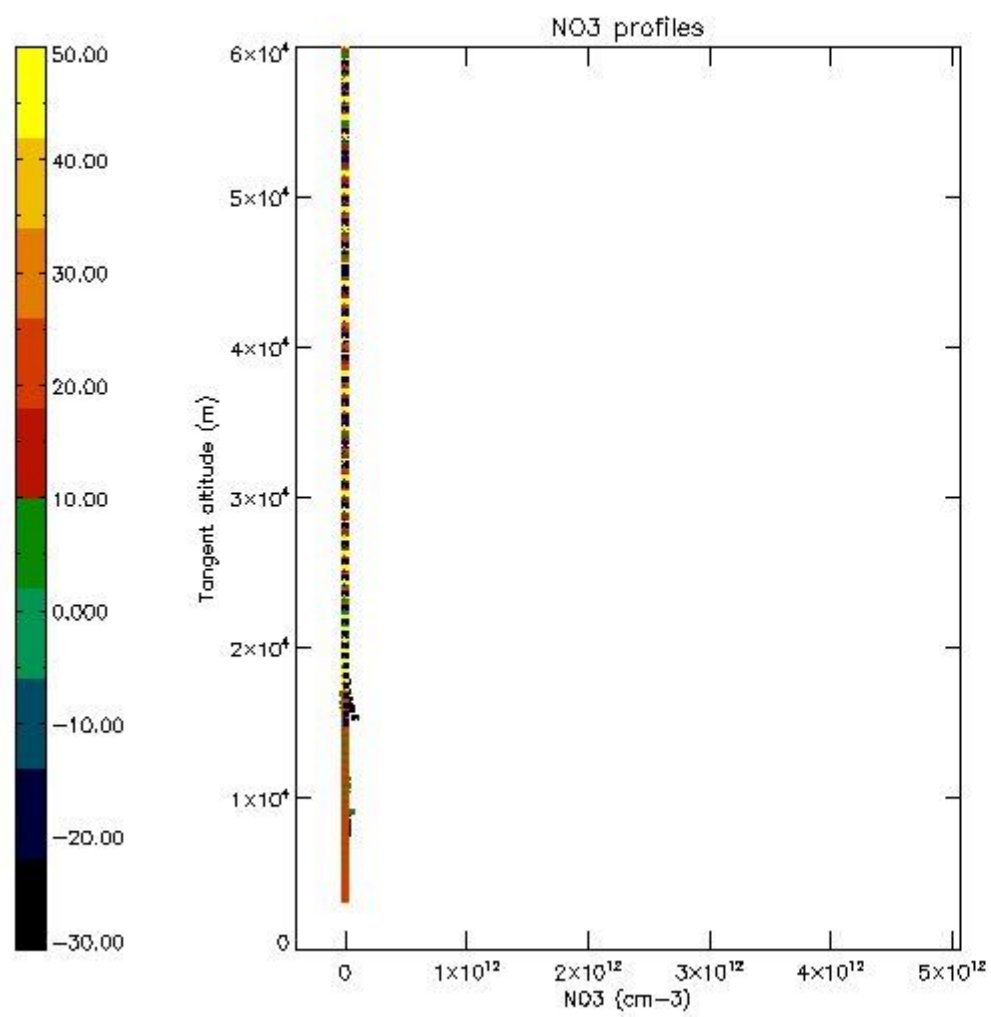
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



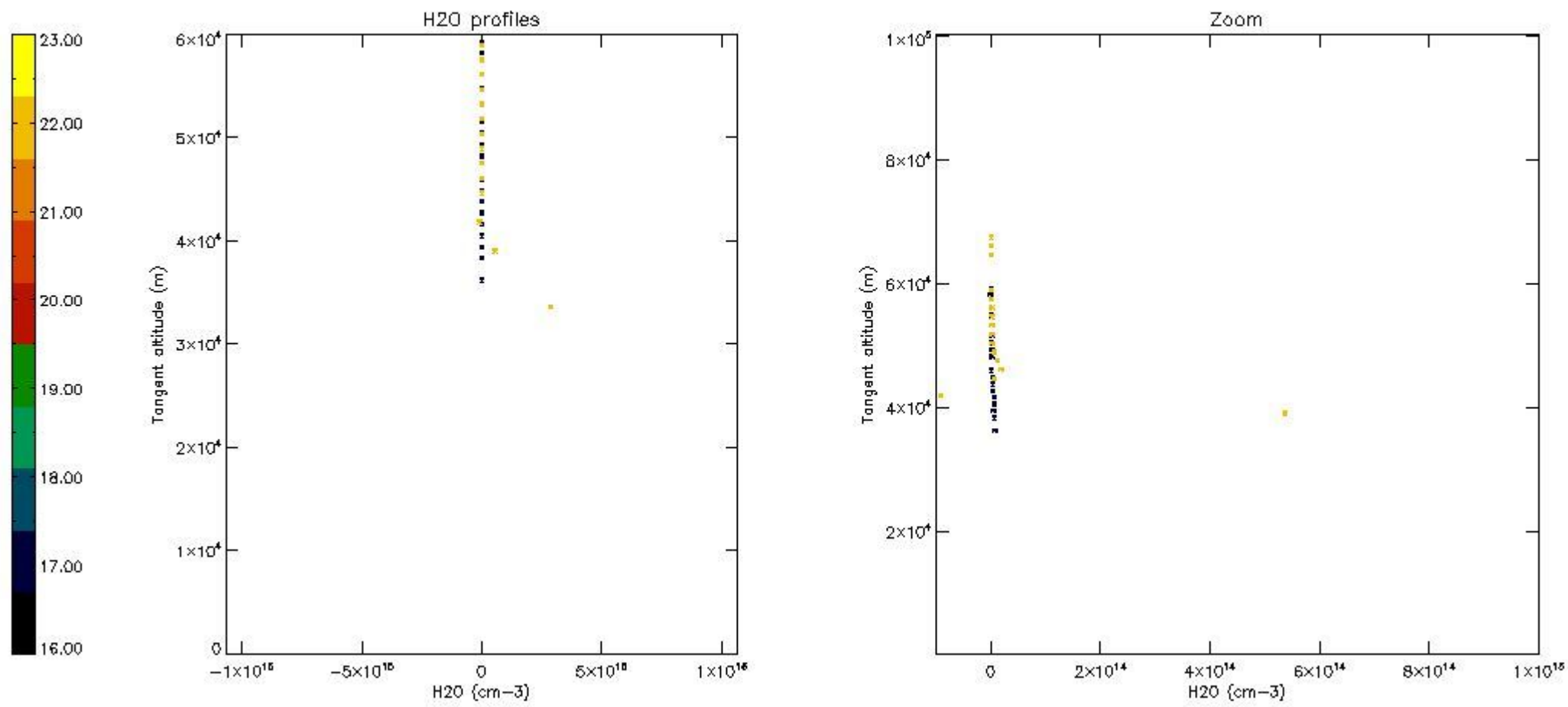
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

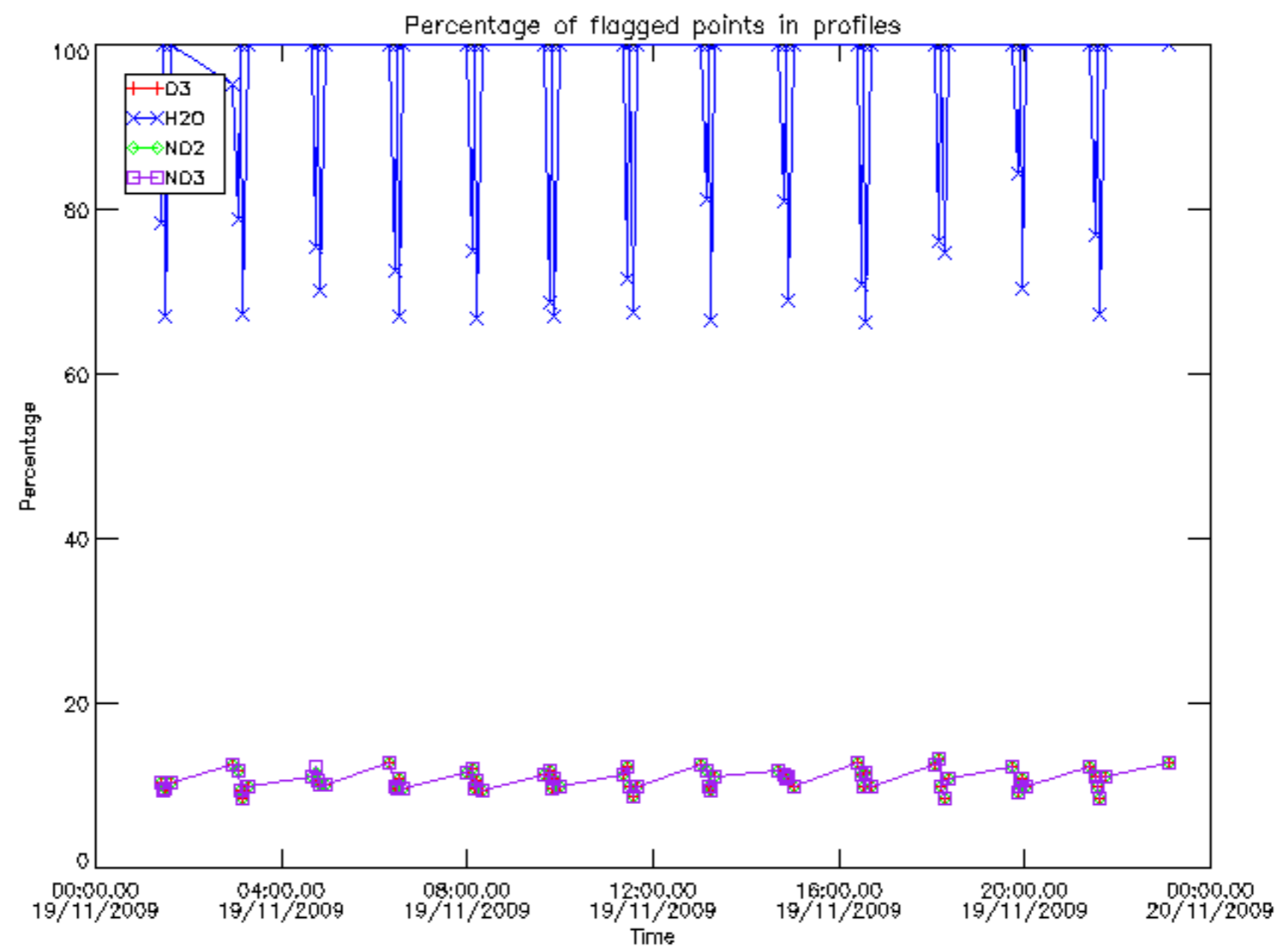
The colorbar represents the latitude.



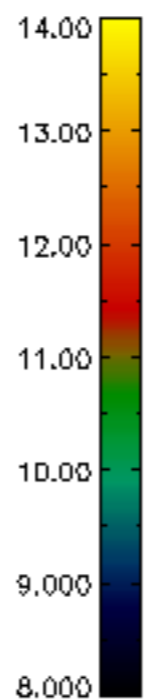
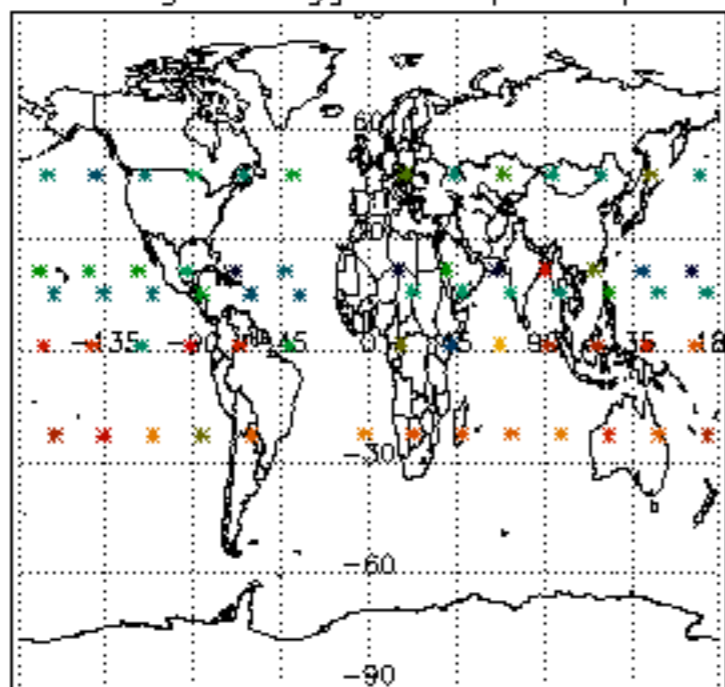
6. Auxiliary Data Files used for the production reported in section 2

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.

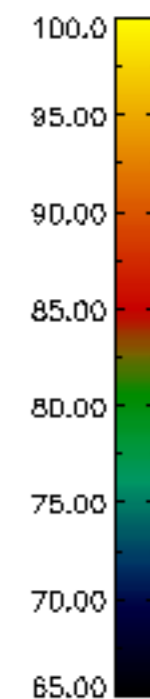
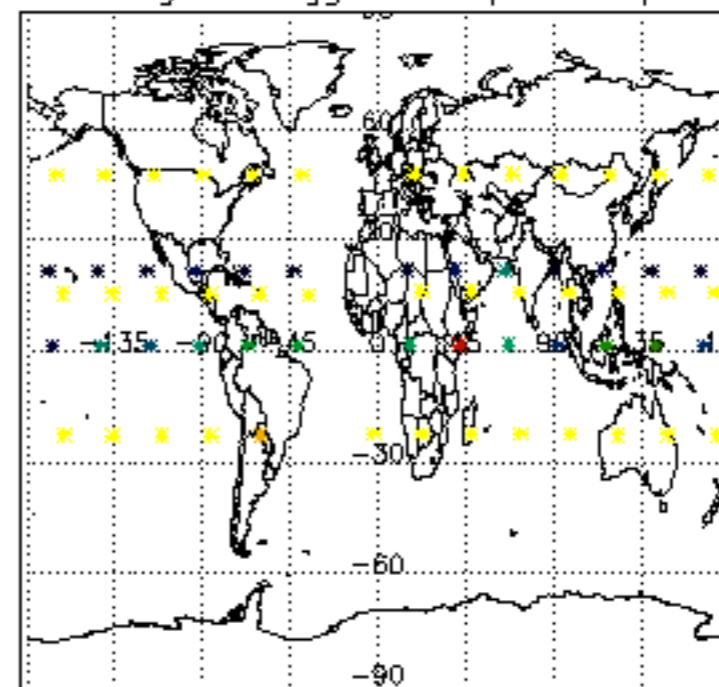
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	19-NOV-2009 00:04:31
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-NOV-2009 00:04:31
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-NOV-2009 00:04:31



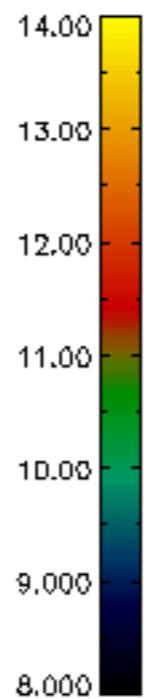
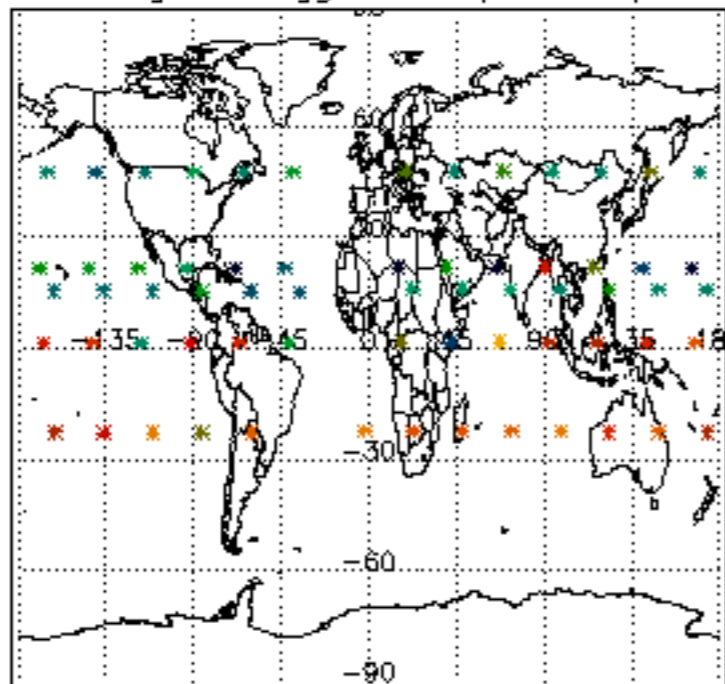
Percentage of flagged data per D3 profile



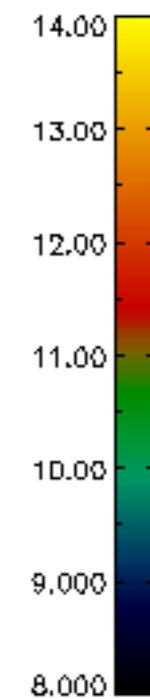
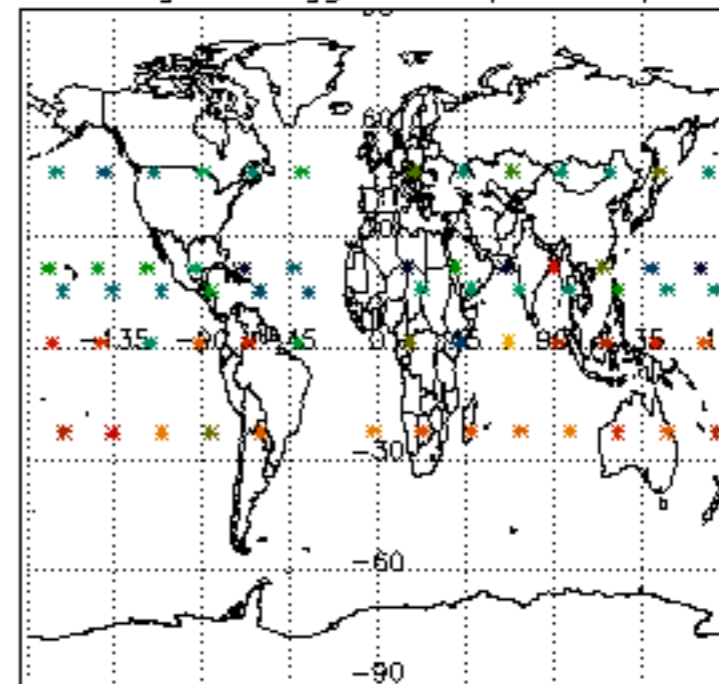
Percentage of flagged data per H2O profile

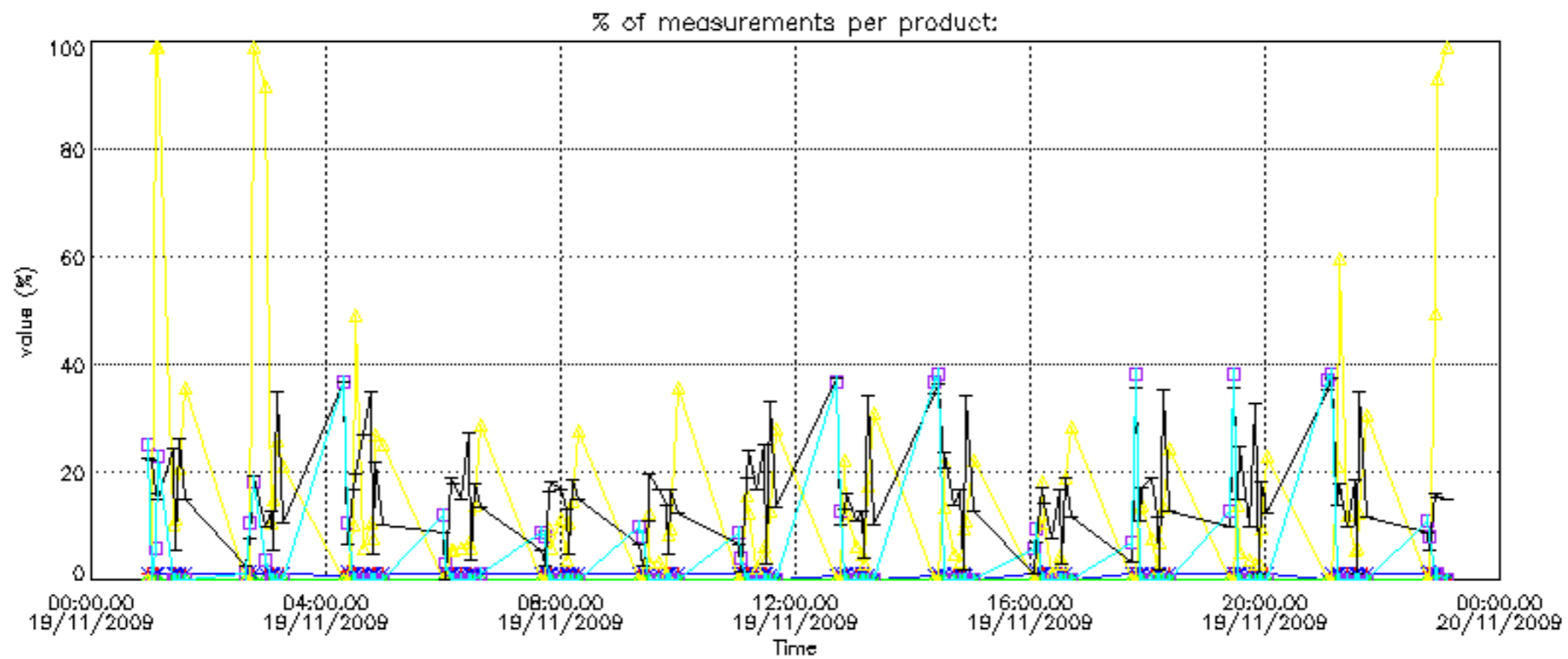
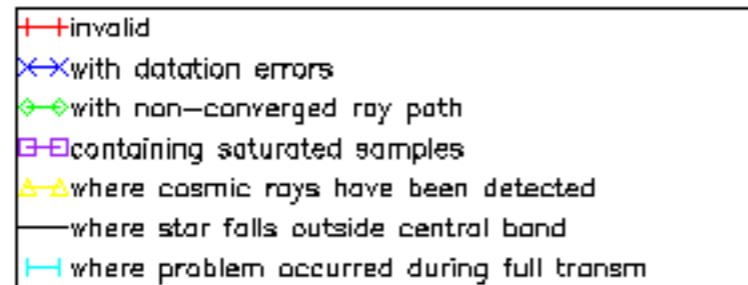


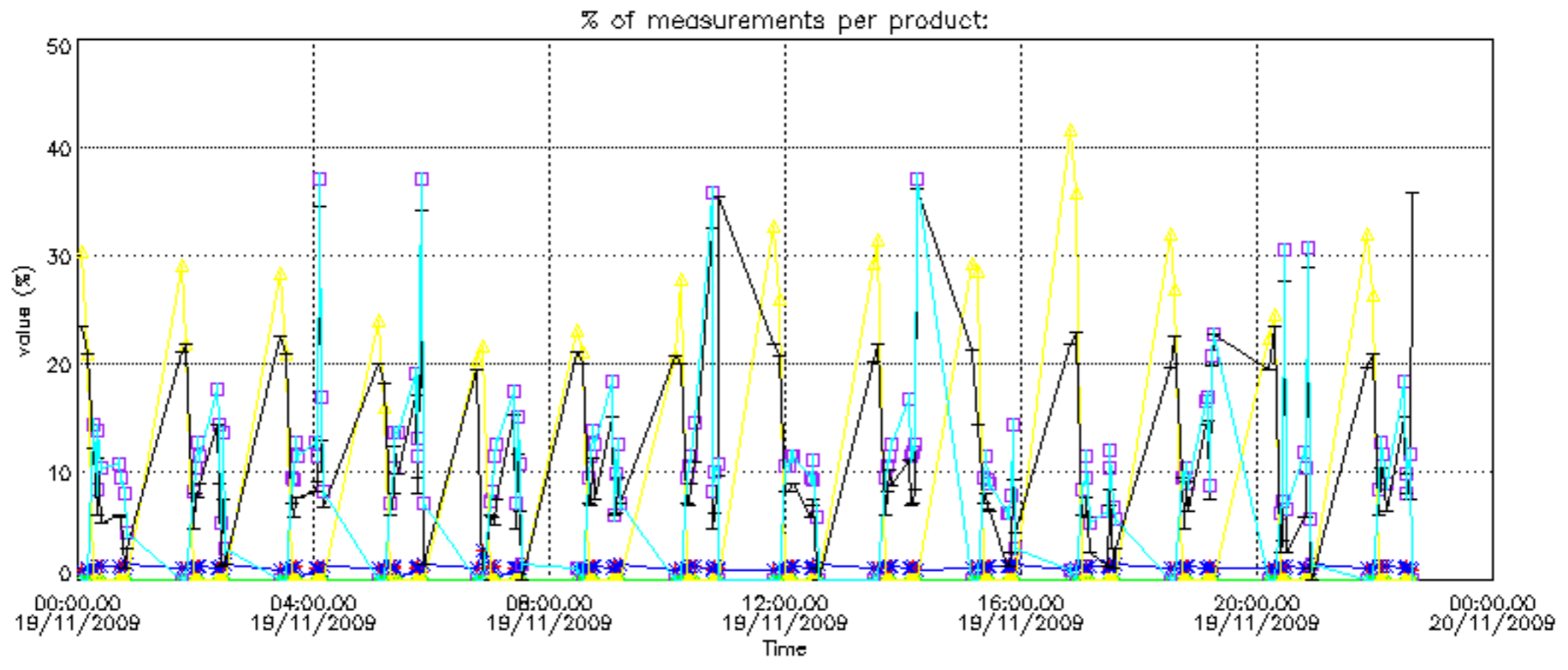
Percentage of flagged data per NO2 profile



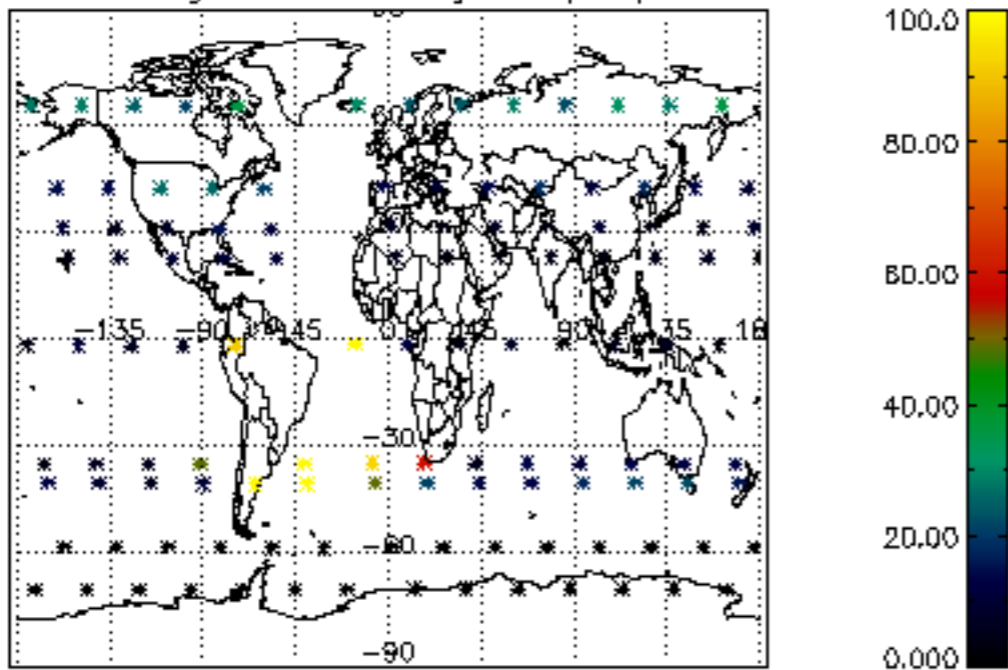
Percentage of flagged data per NO3 profile



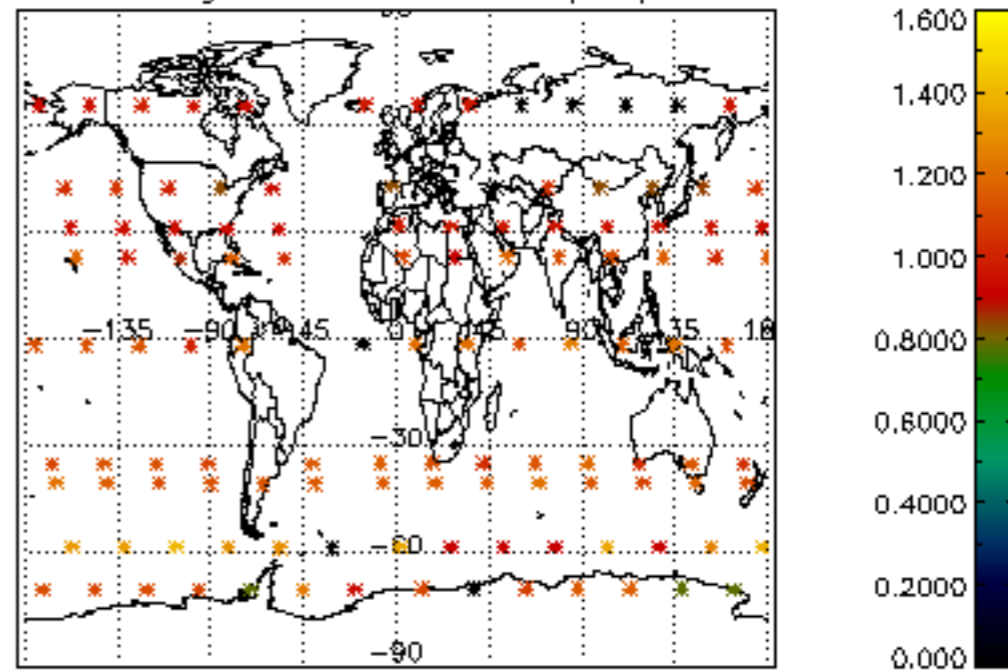




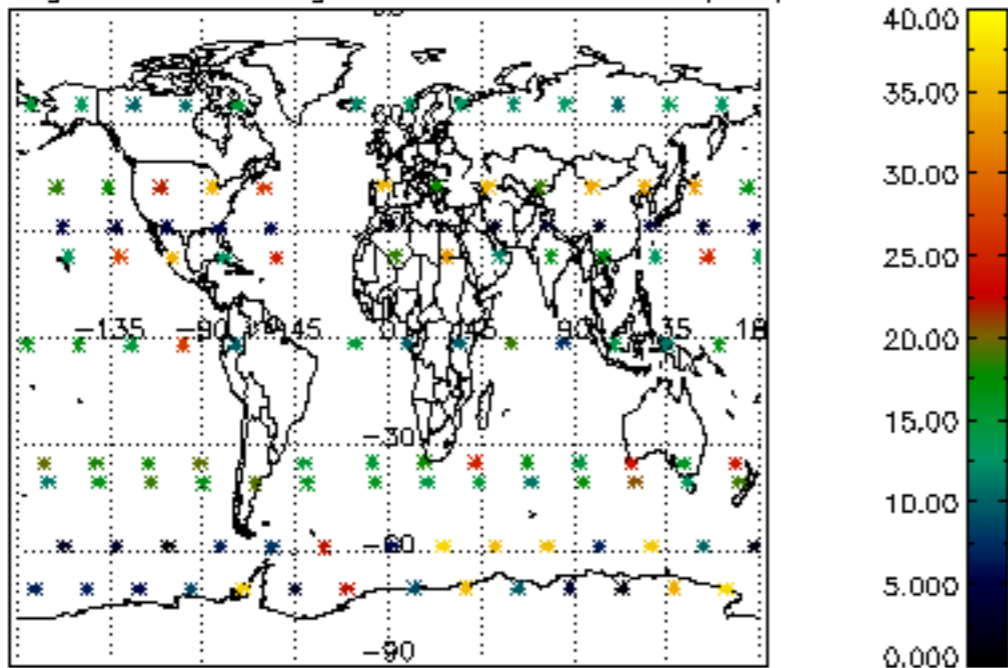
Percentage of cosmic ray hits per profile



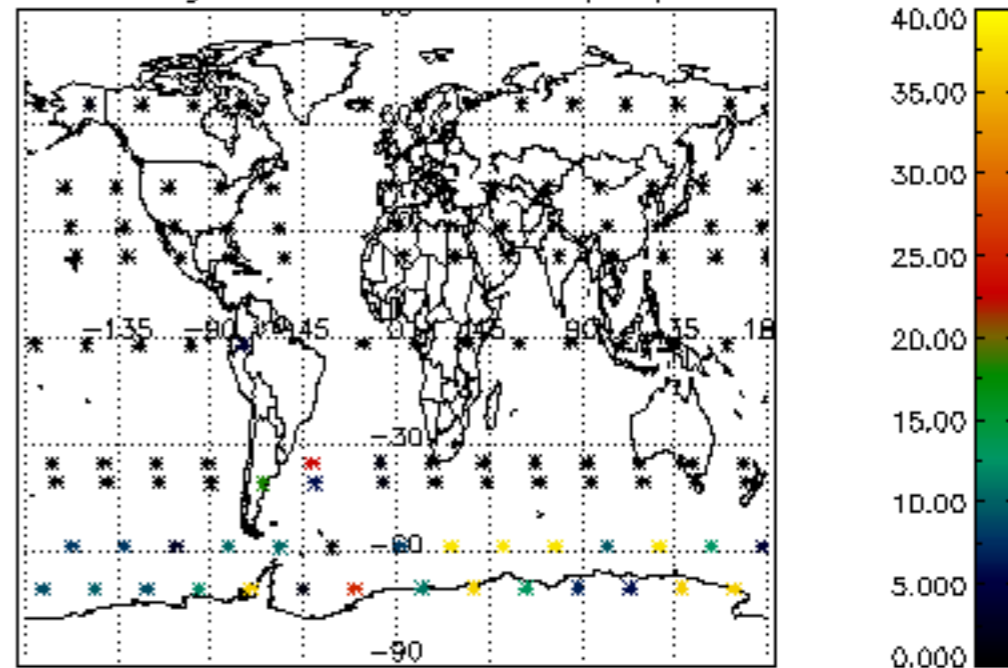
Percentage of datation errors per profile



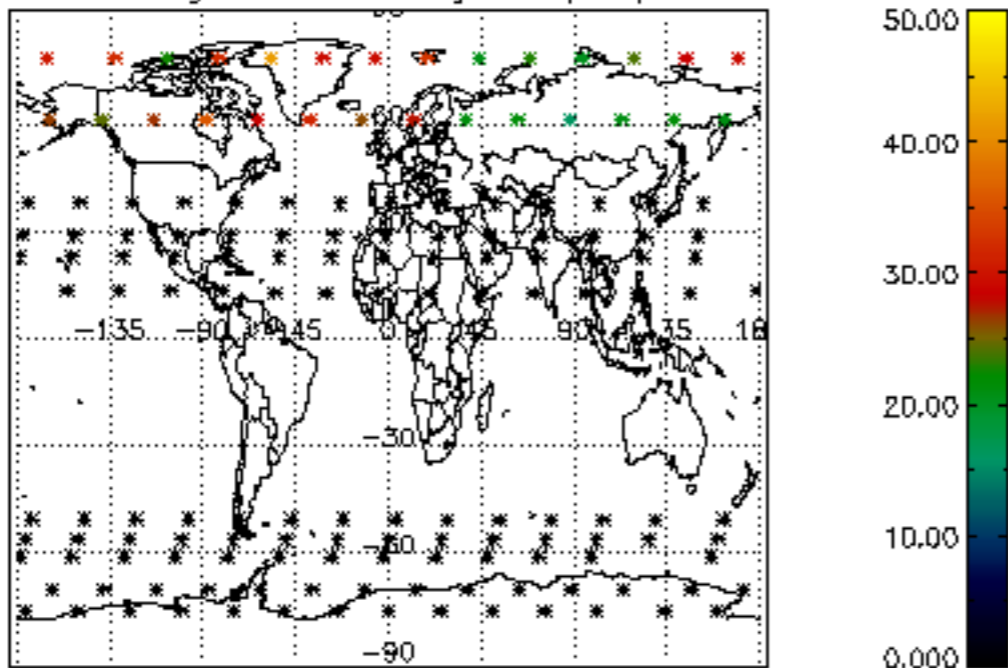
Percentage of star falling outside central band per profile



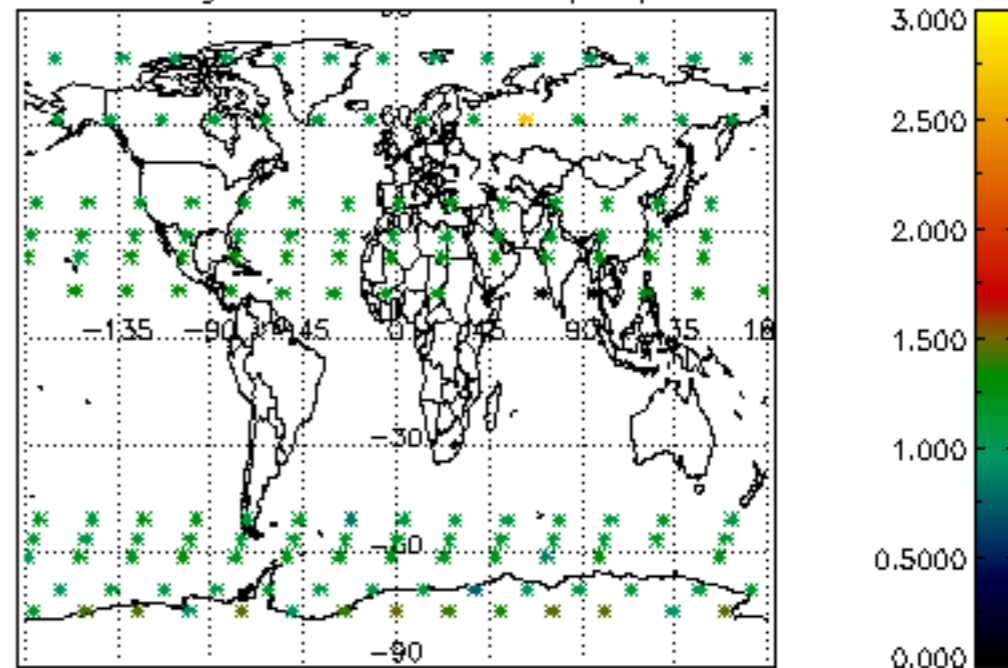
Percentage of saturation errors per profile



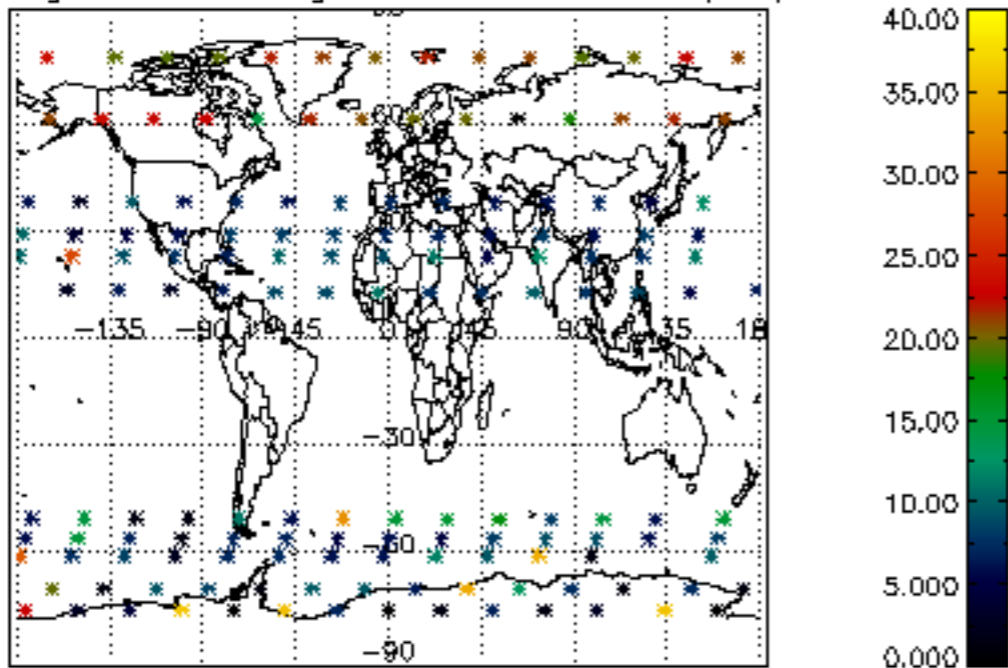
Percentage of cosmic ray hits per profile



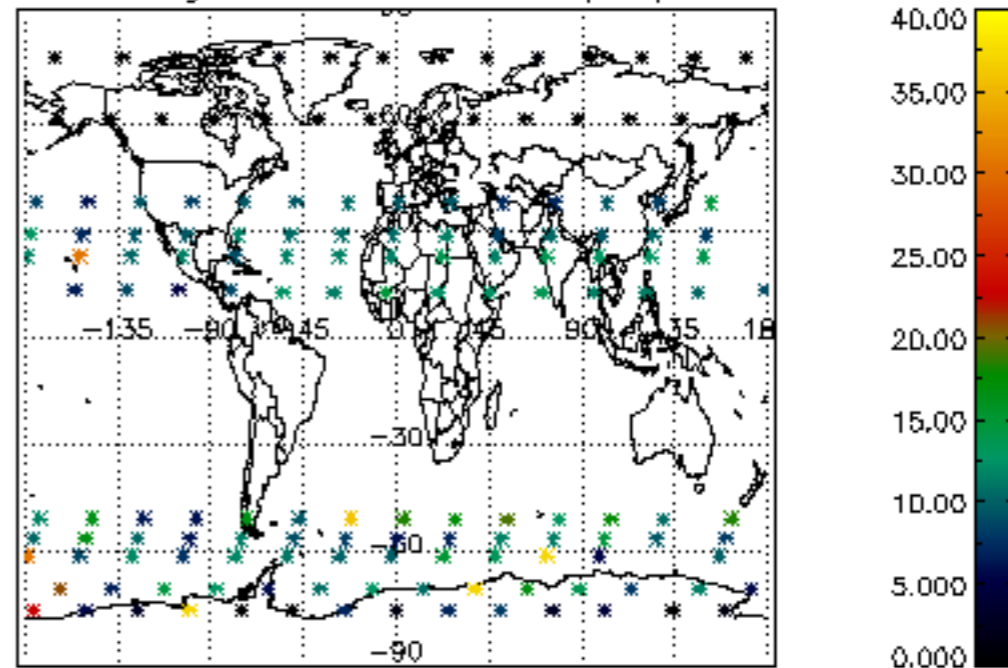
Percentage of datation errors per profile

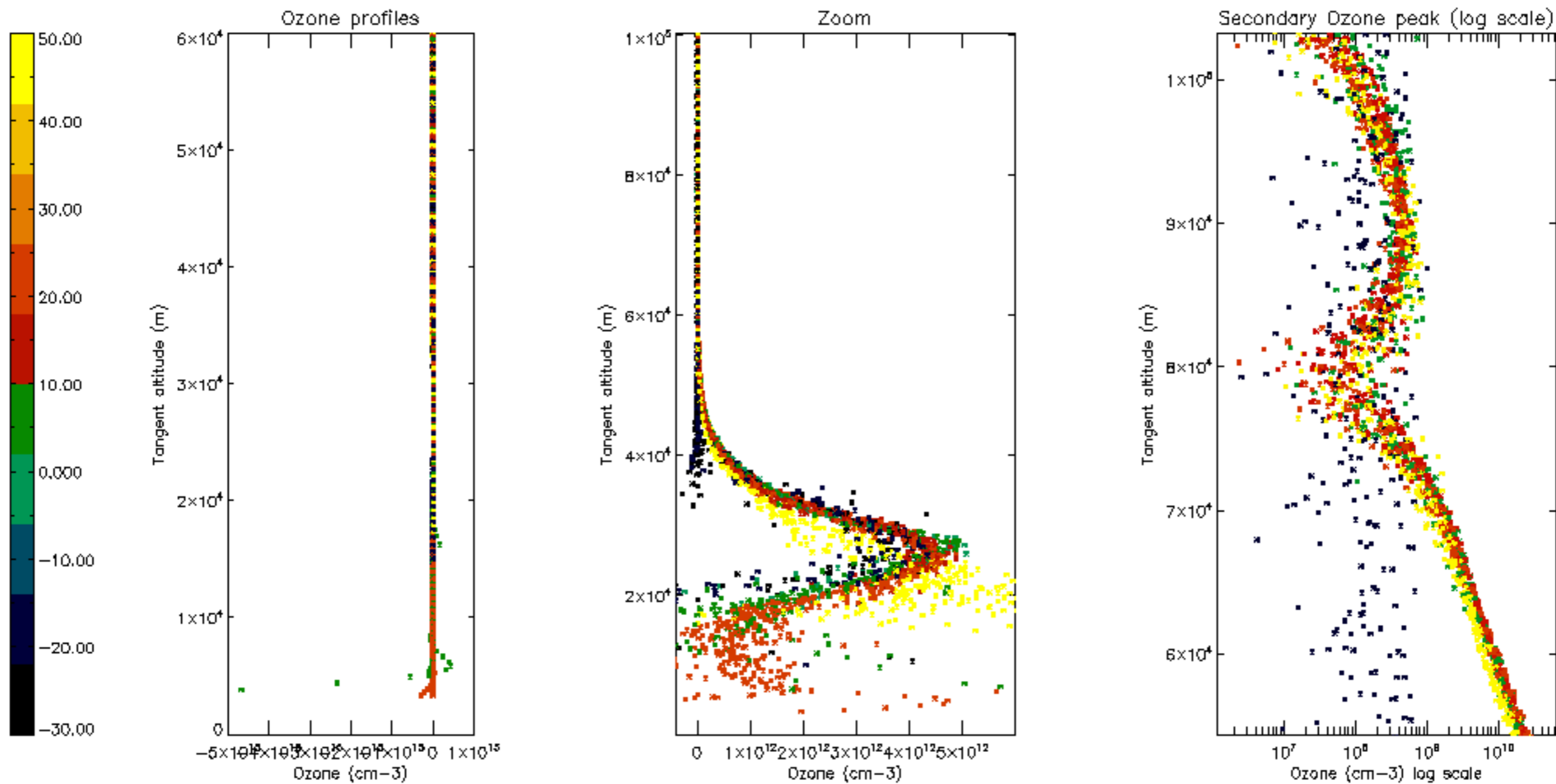


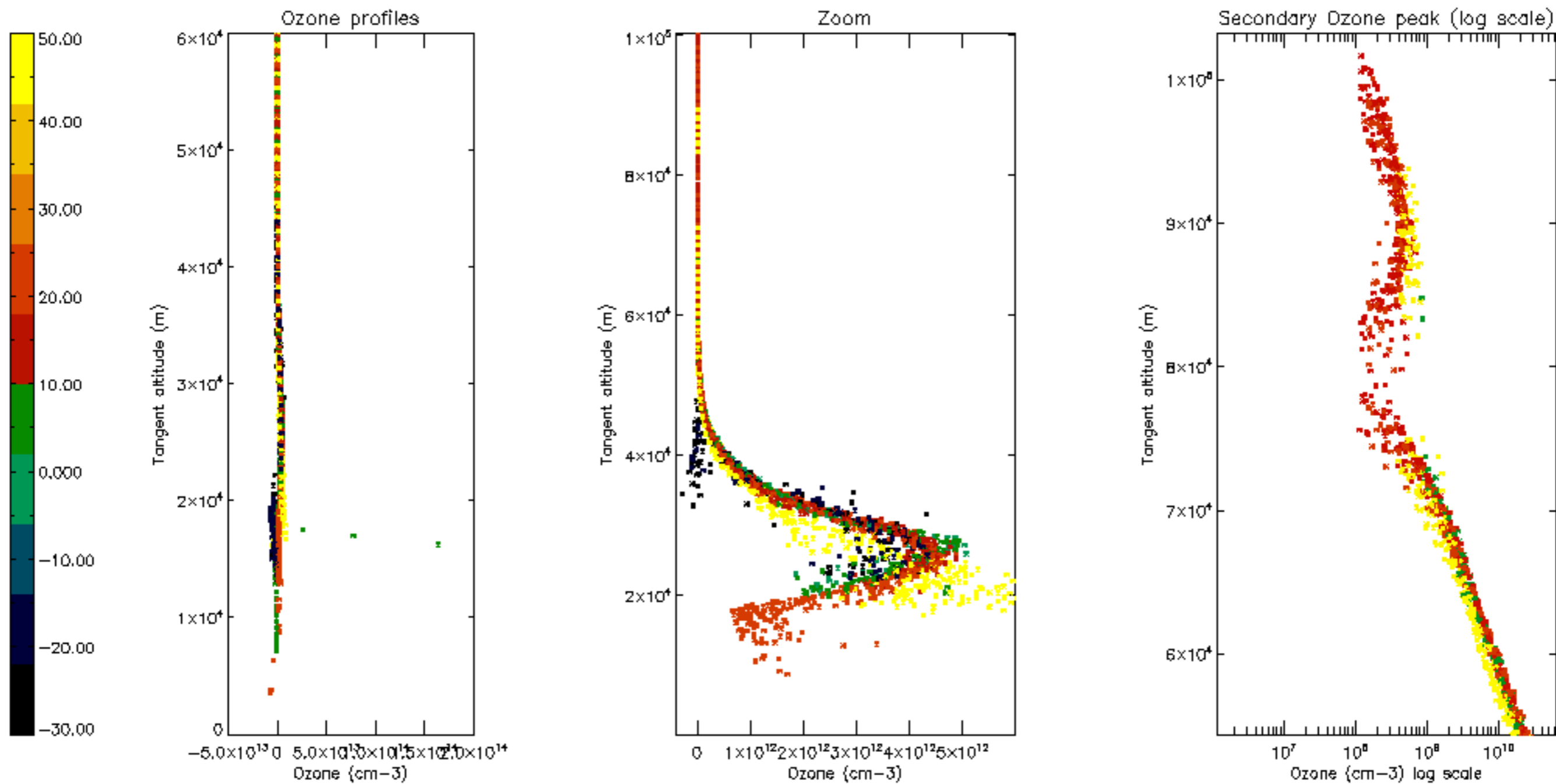
Percentage of star falling outside central band per profile

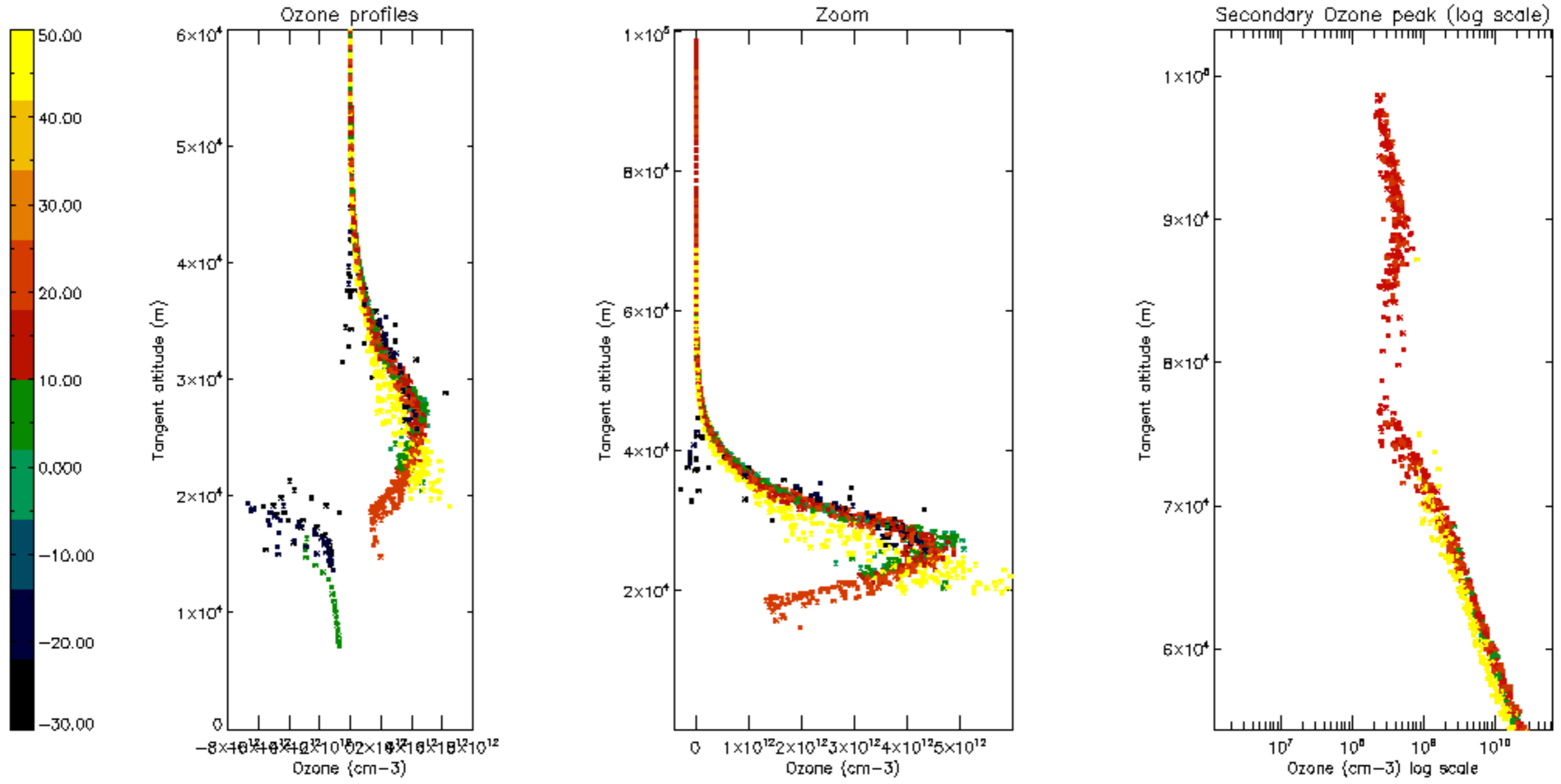


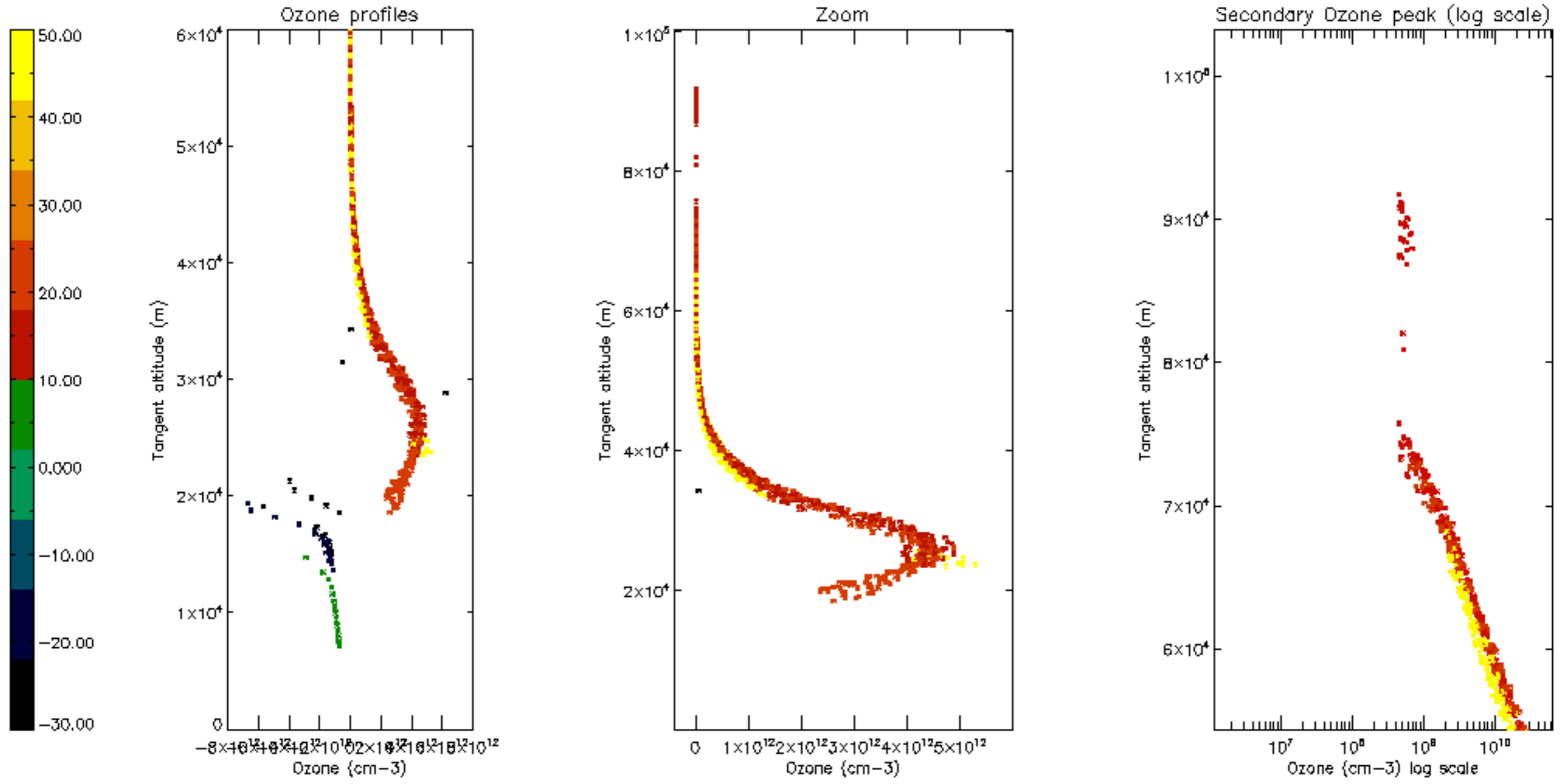
Percentage of saturation errors per profile

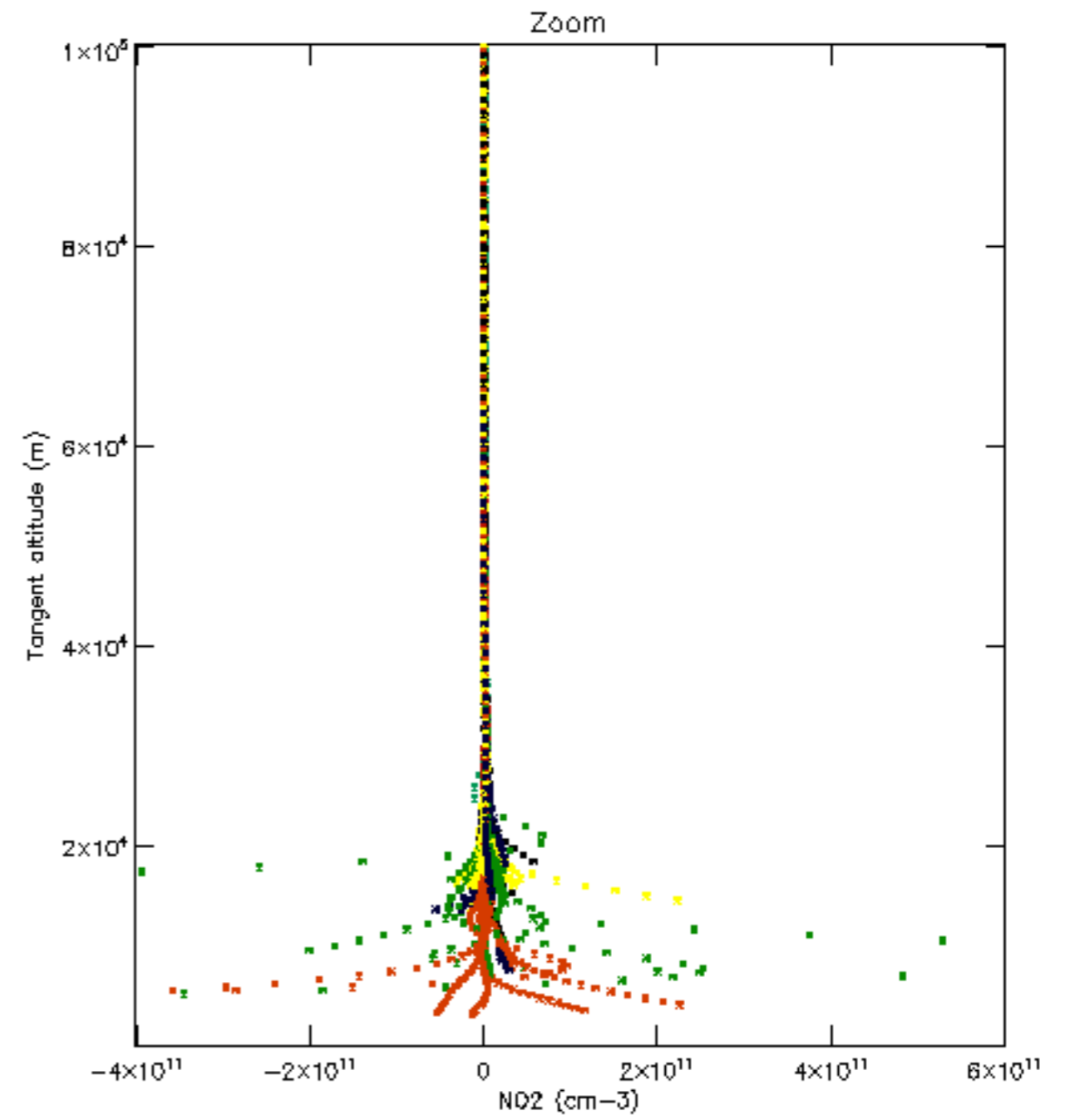
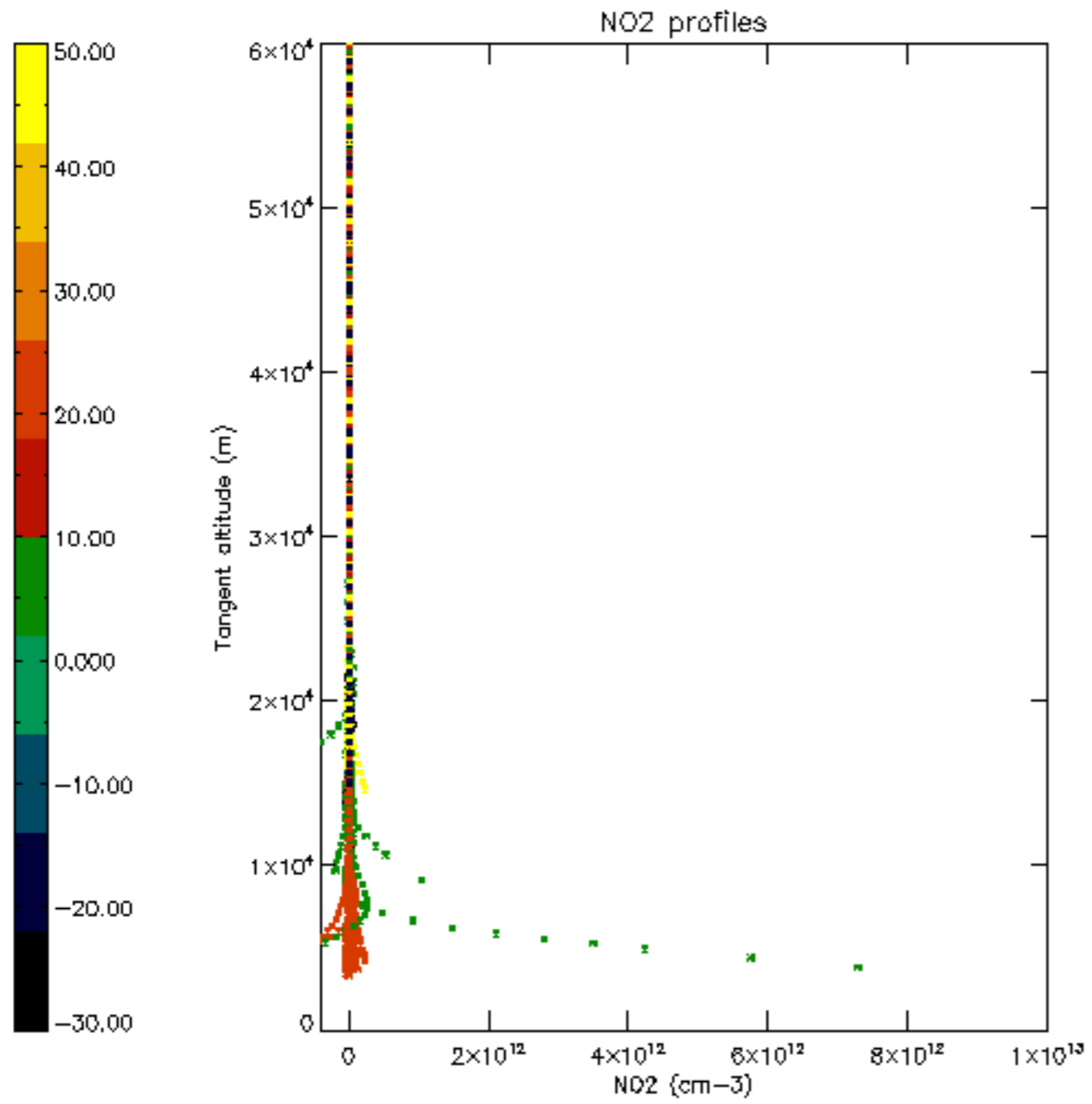


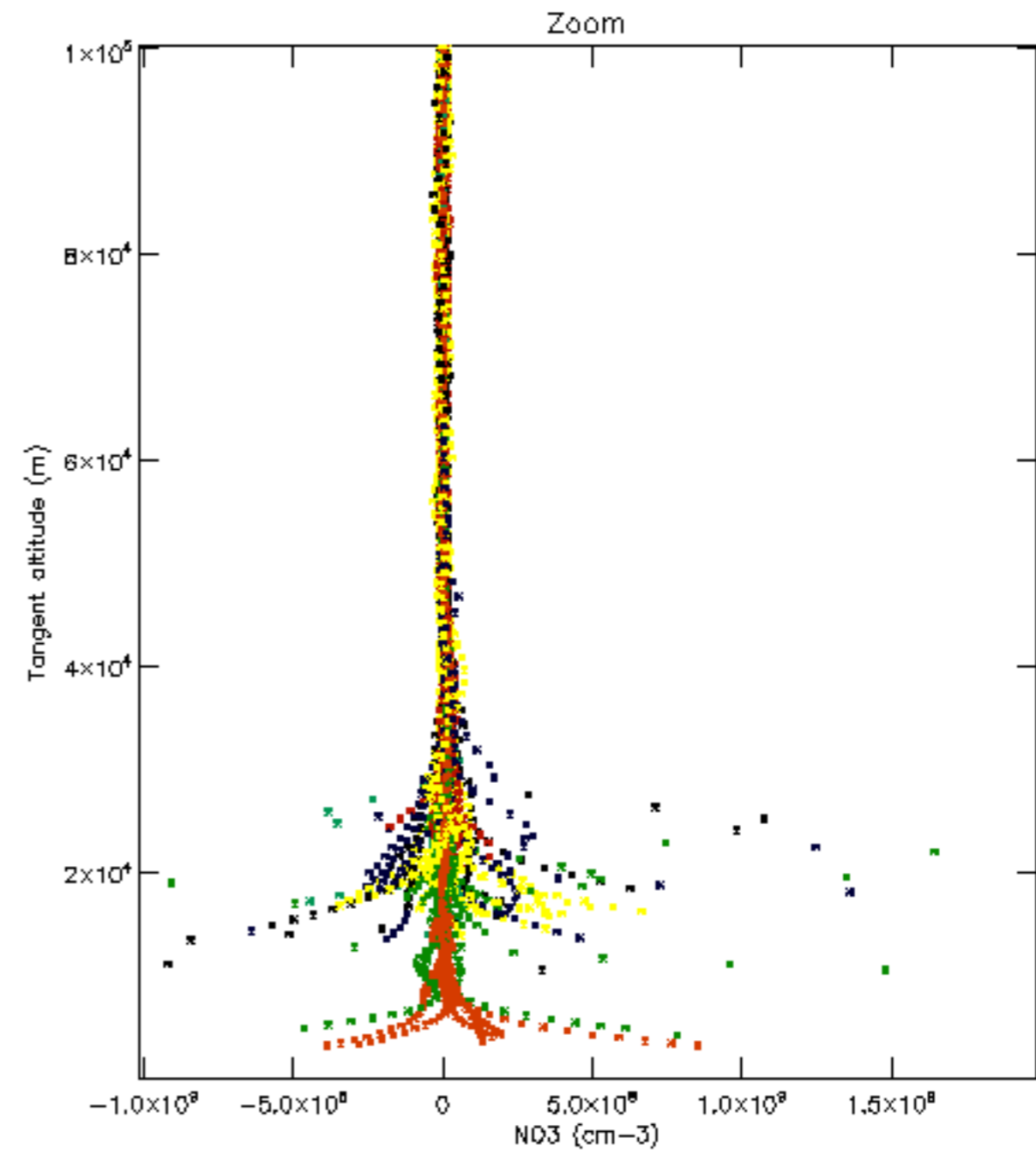
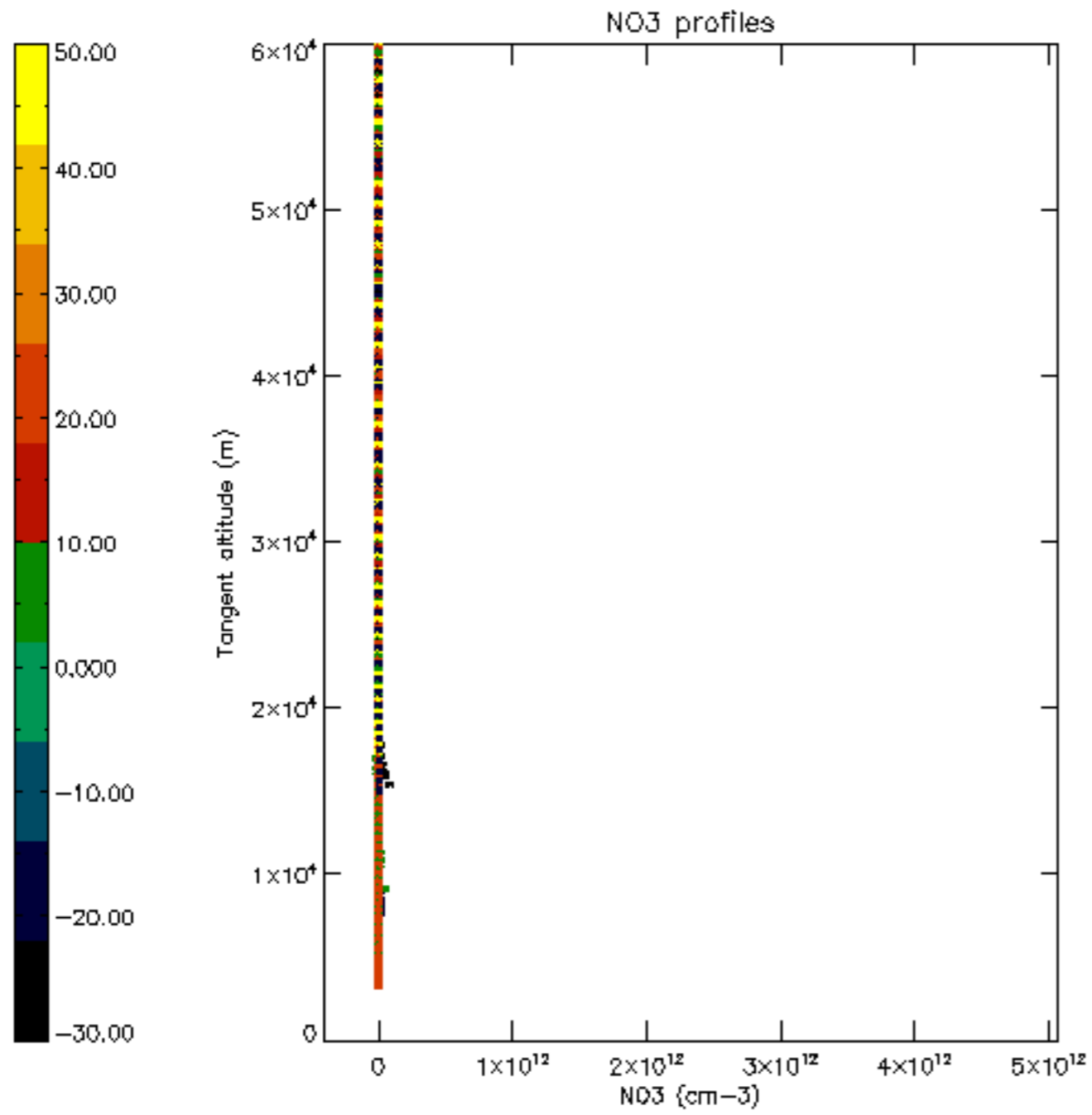


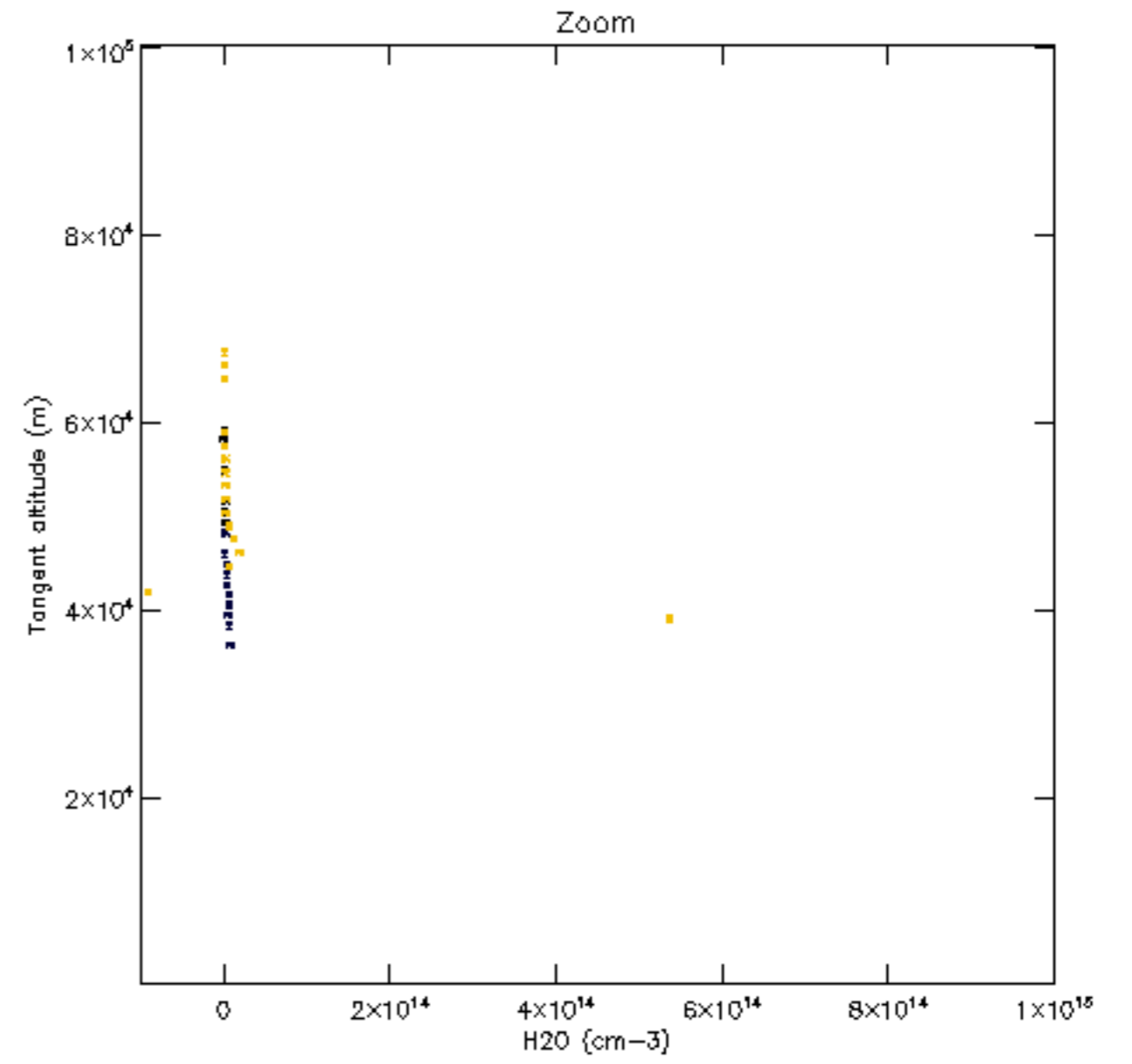
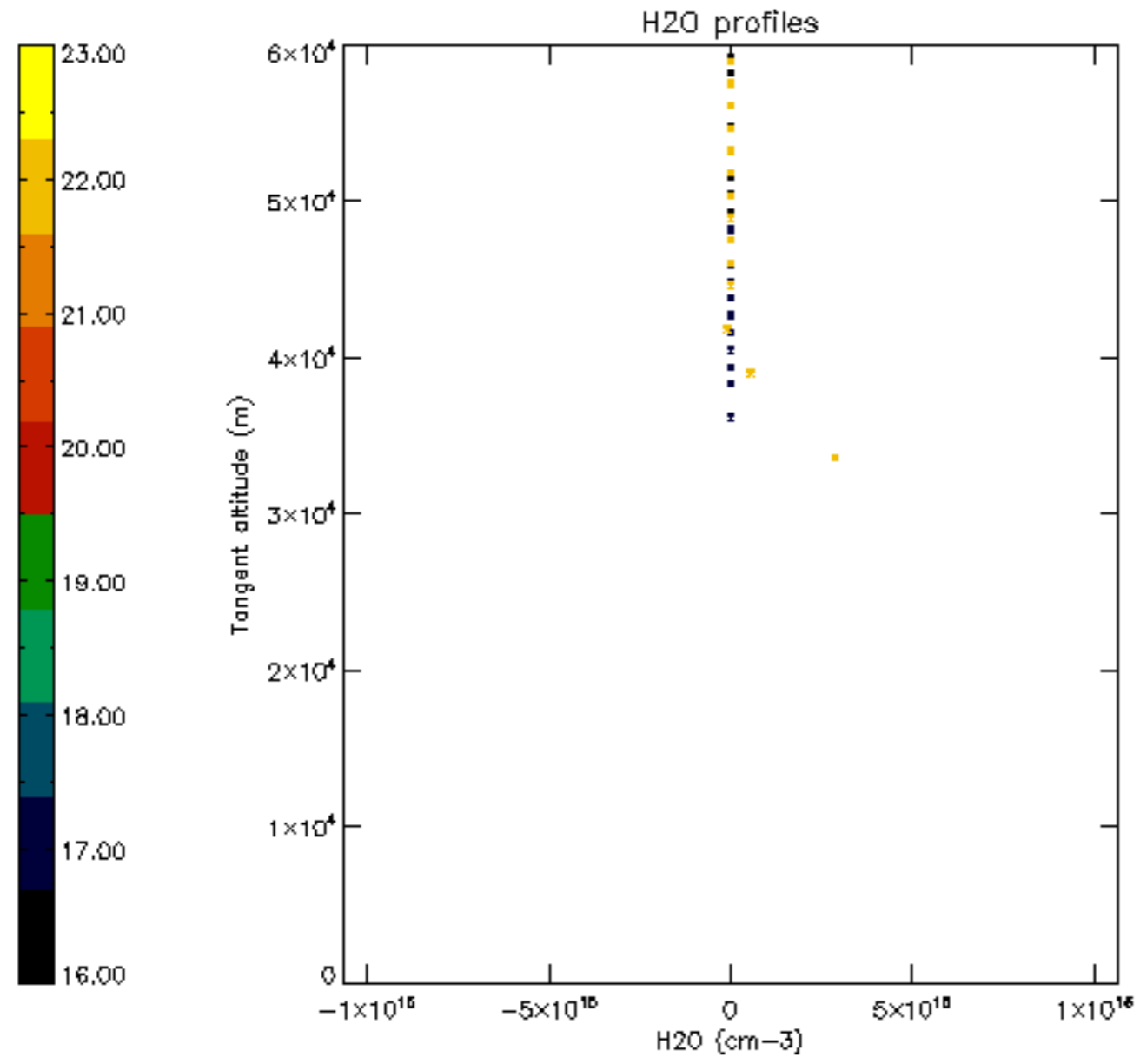


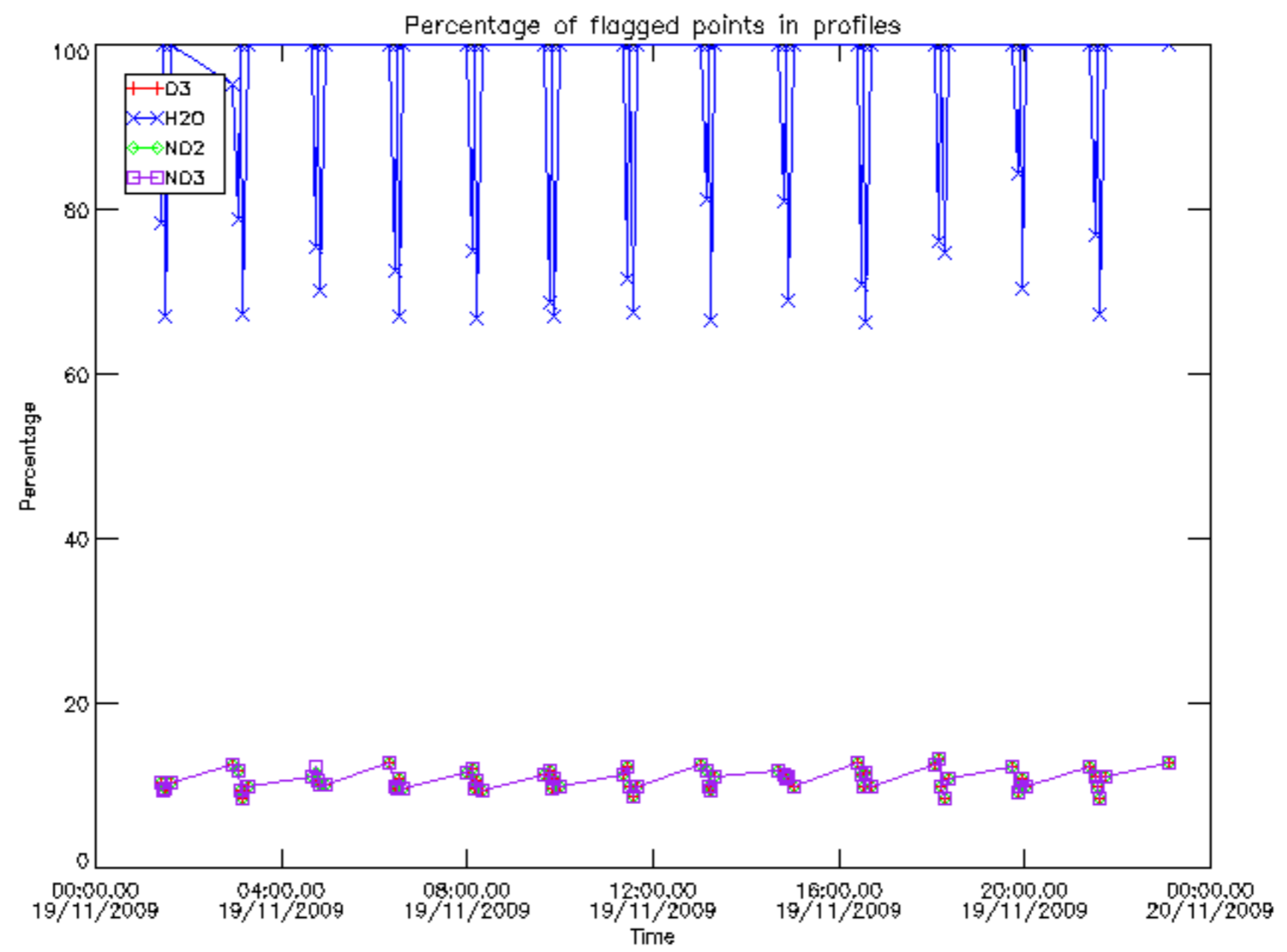




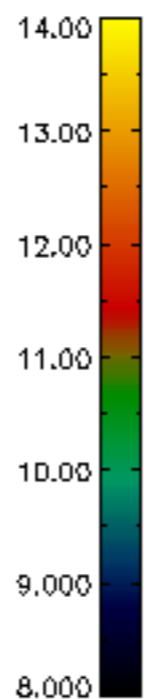
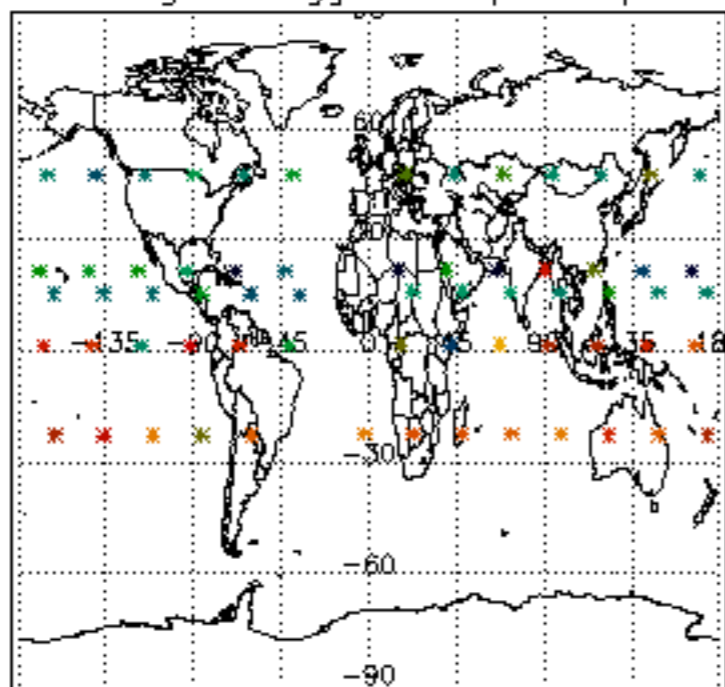




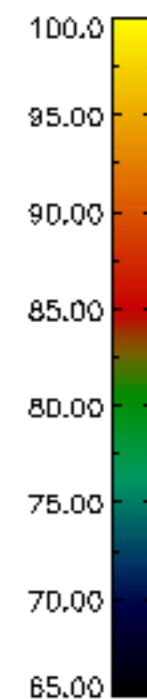
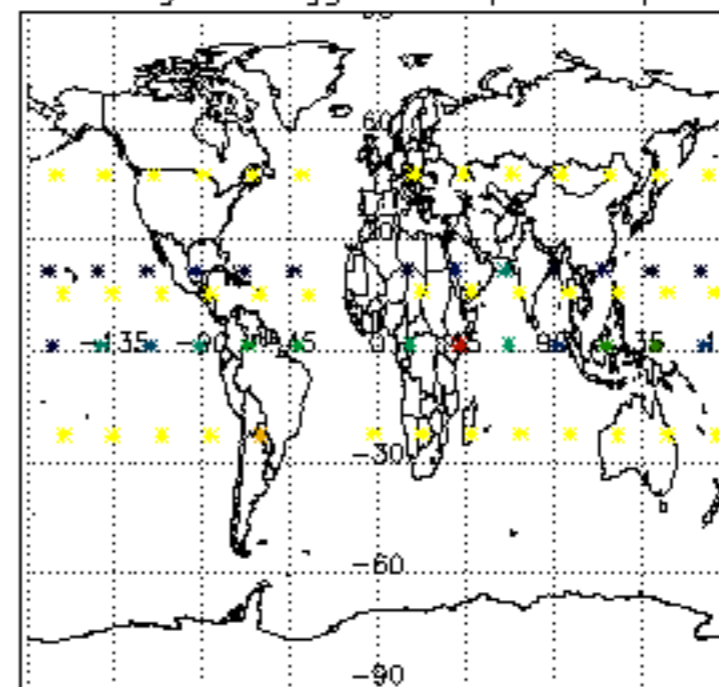




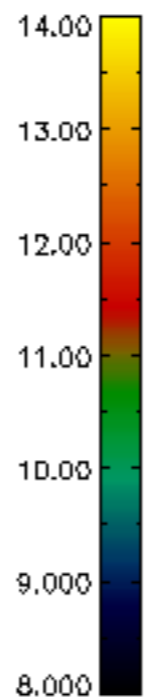
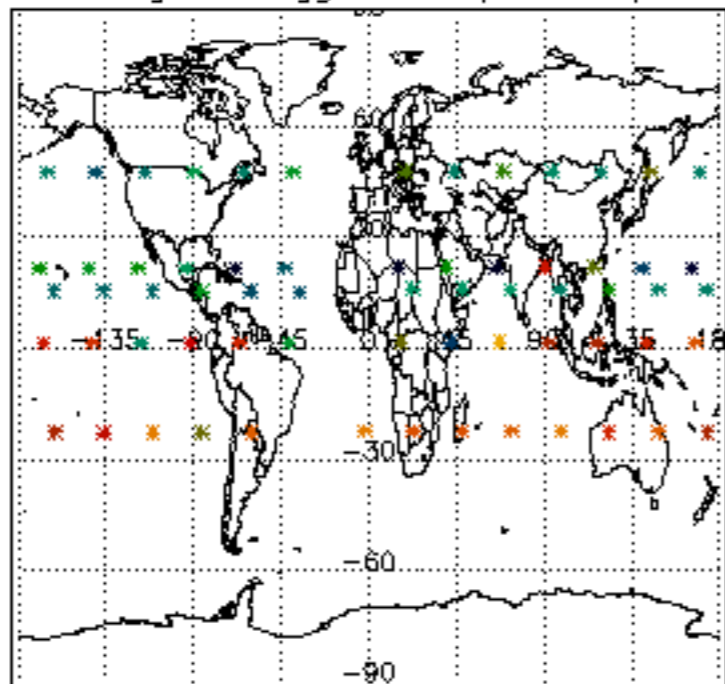
Percentage of flagged data per D3 profile



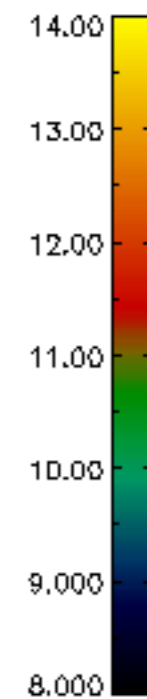
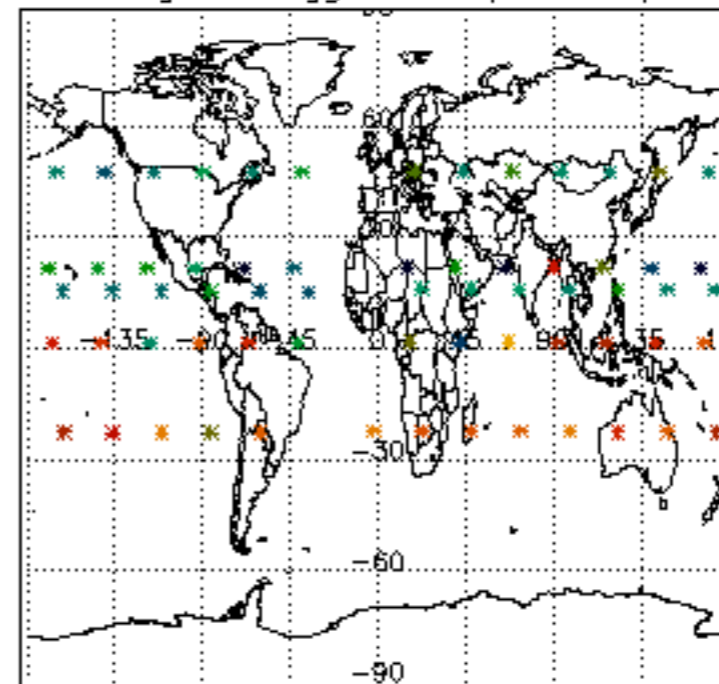
Percentage of flagged data per H2O profile

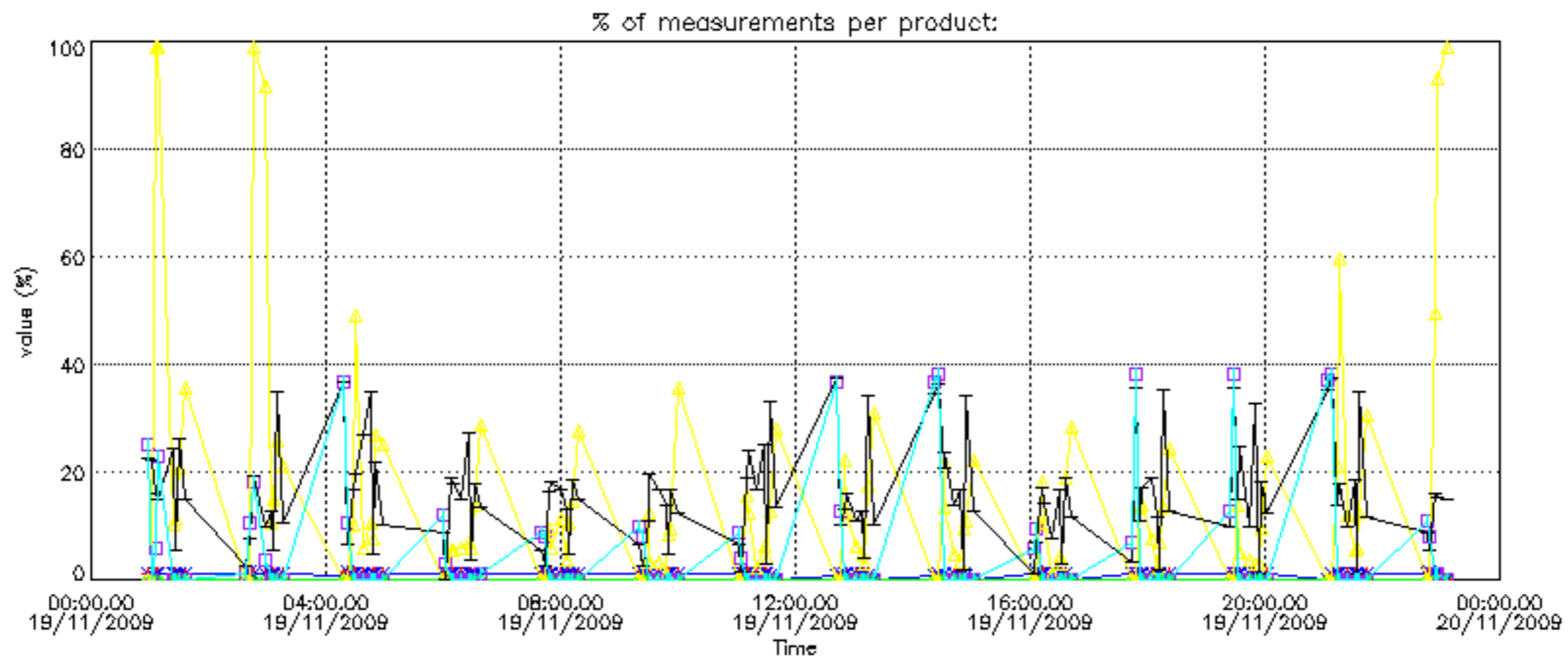
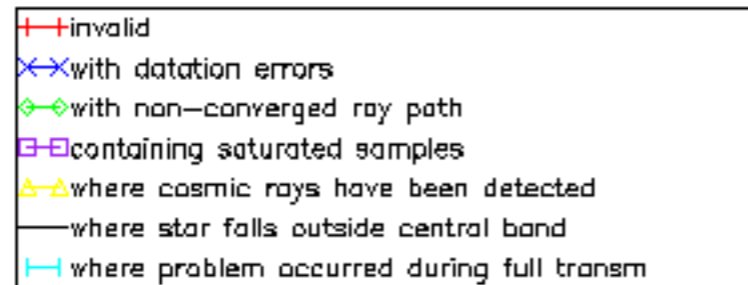


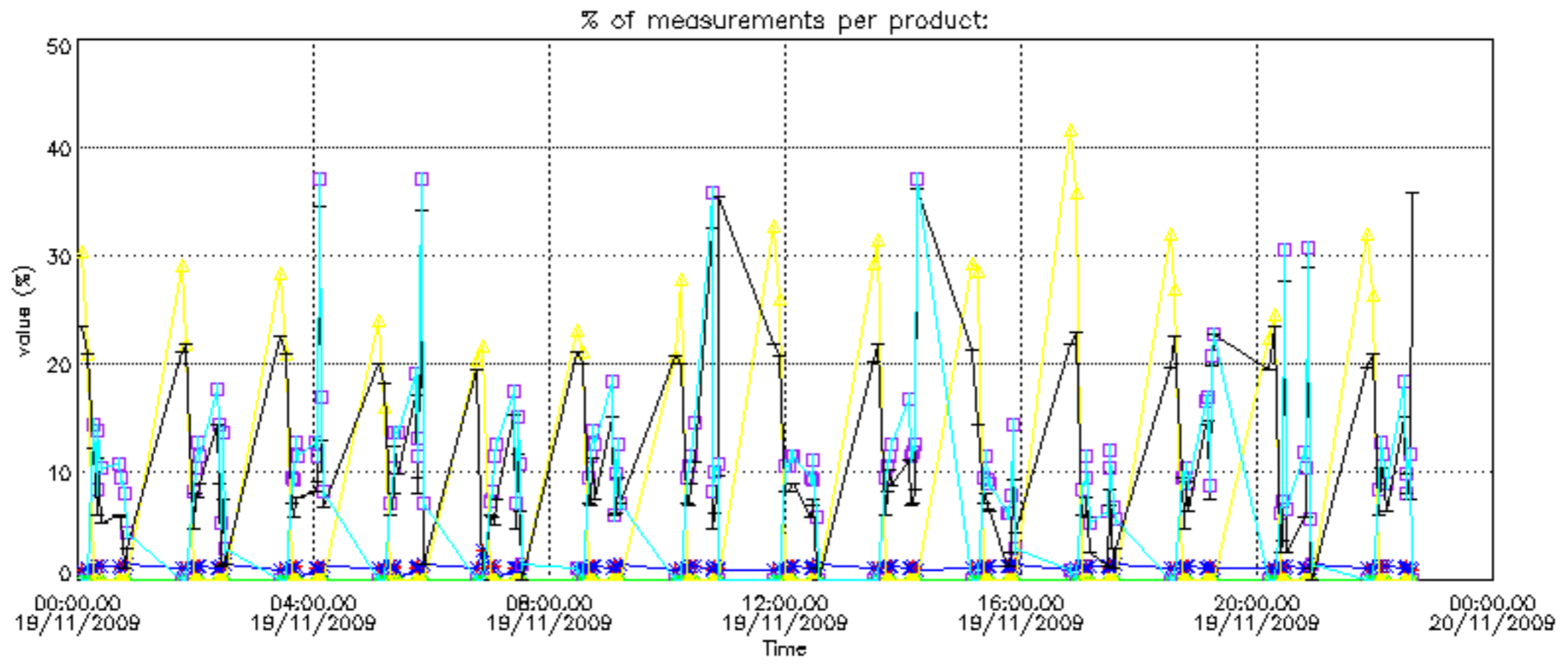
Percentage of flagged data per NO2 profile



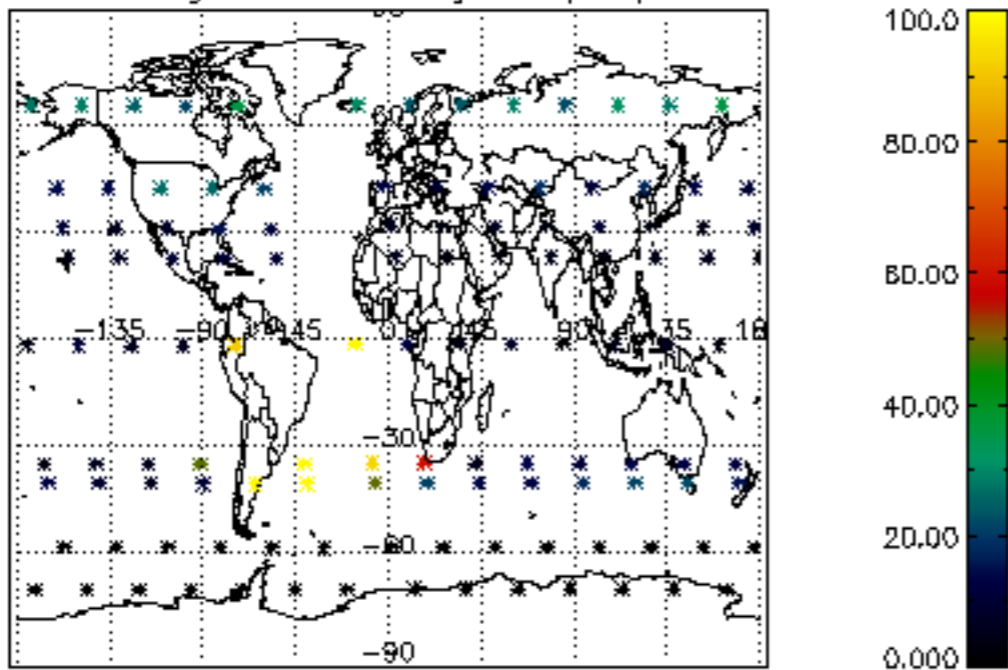
Percentage of flagged data per NO3 profile



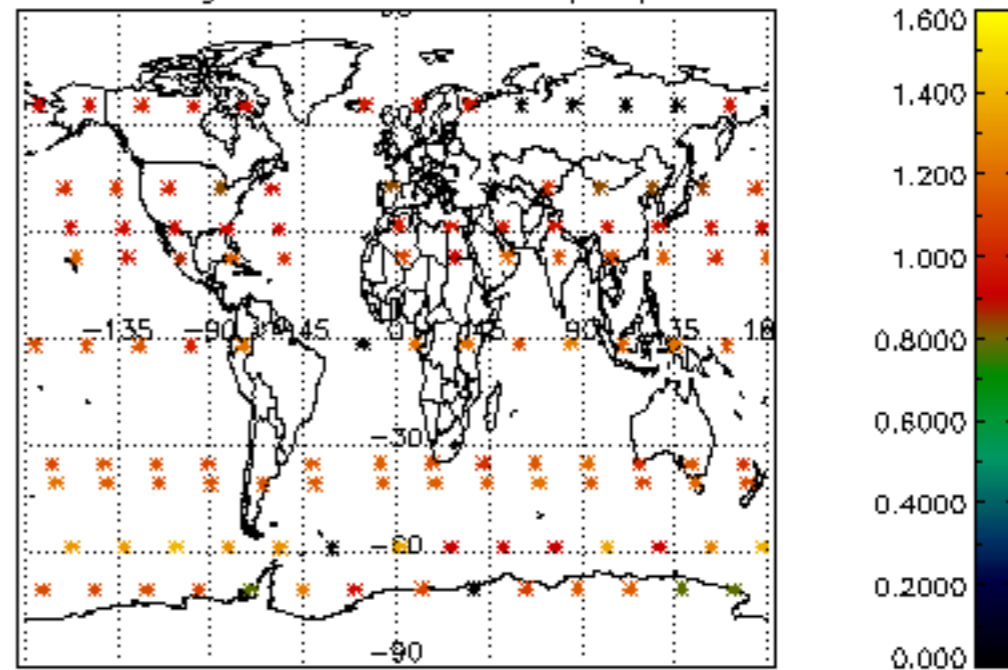




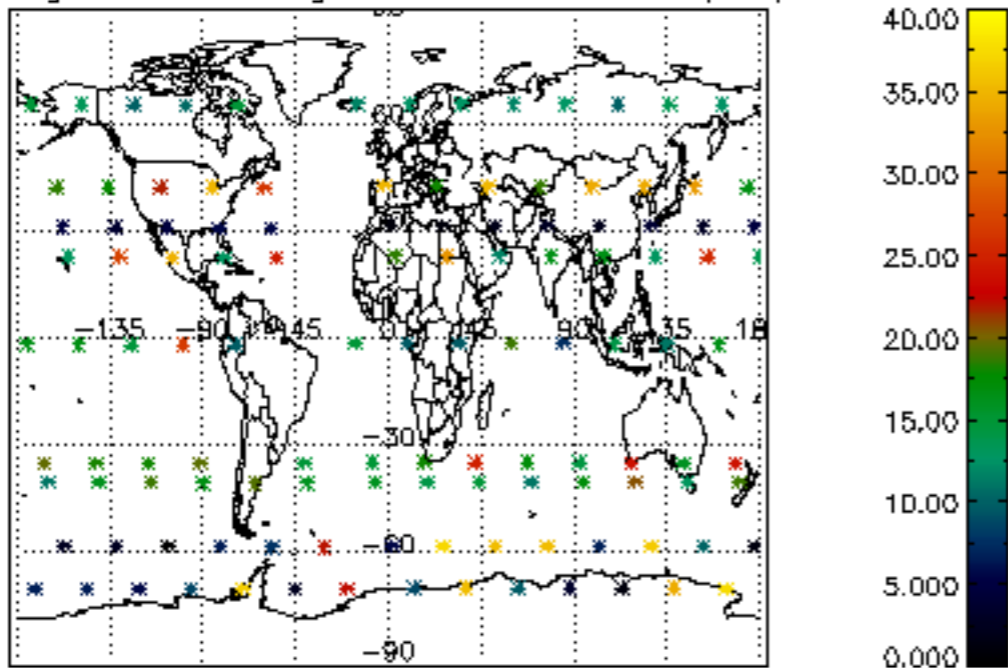
Percentage of cosmic ray hits per profile



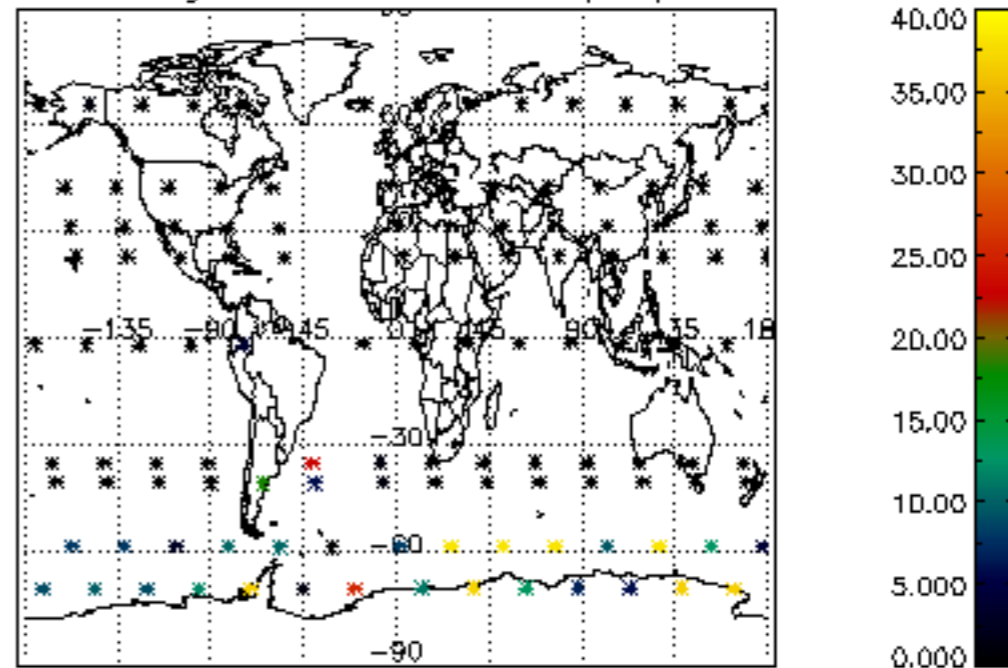
Percentage of datation errors per profile



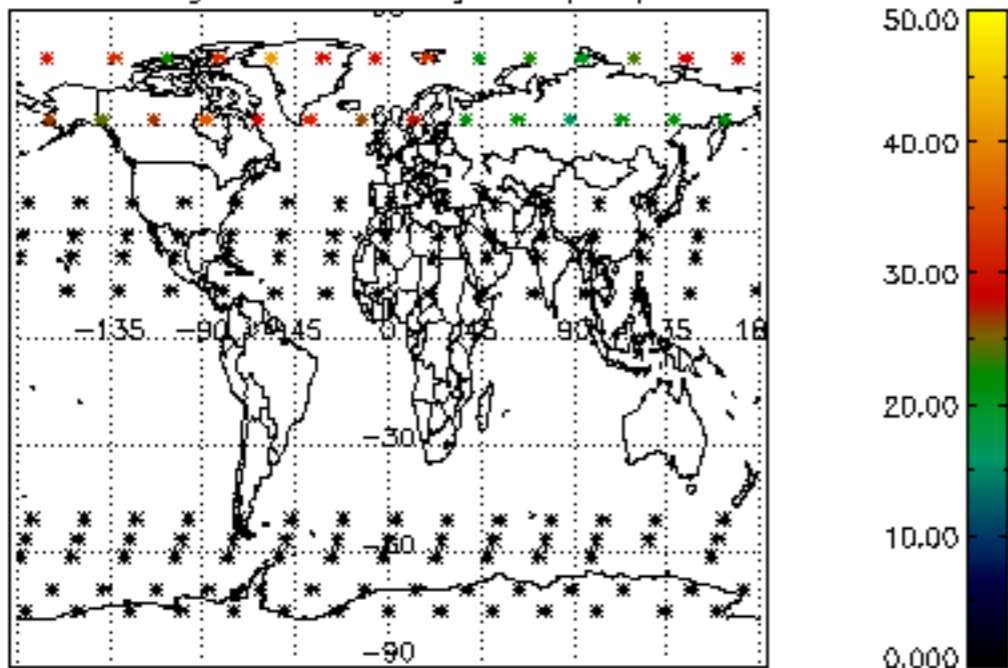
Percentage of star falling outside central band per profile



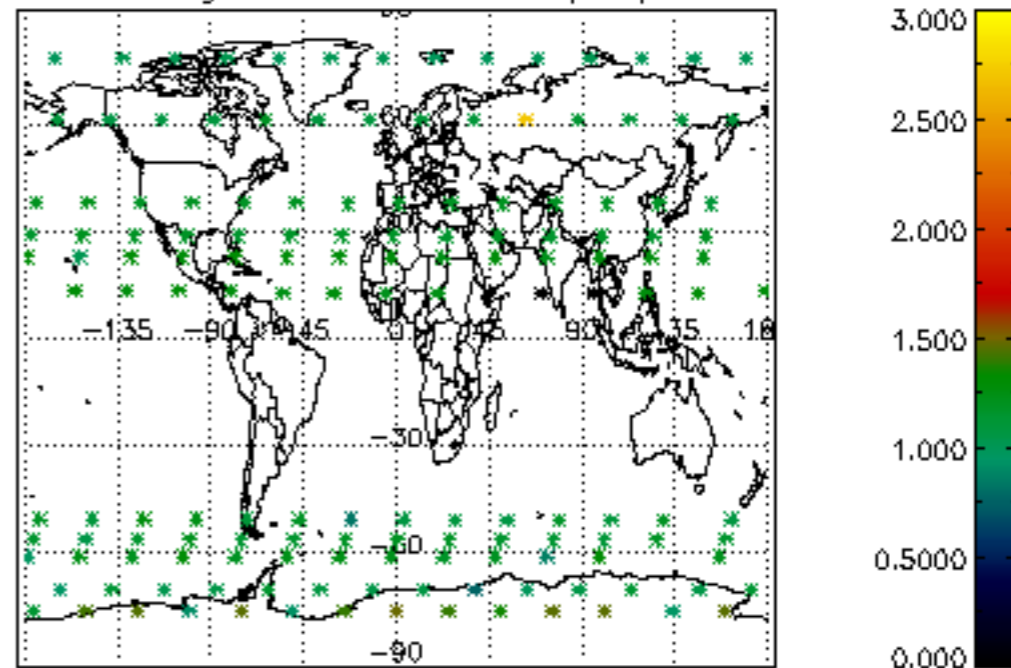
Percentage of saturation errors per profile



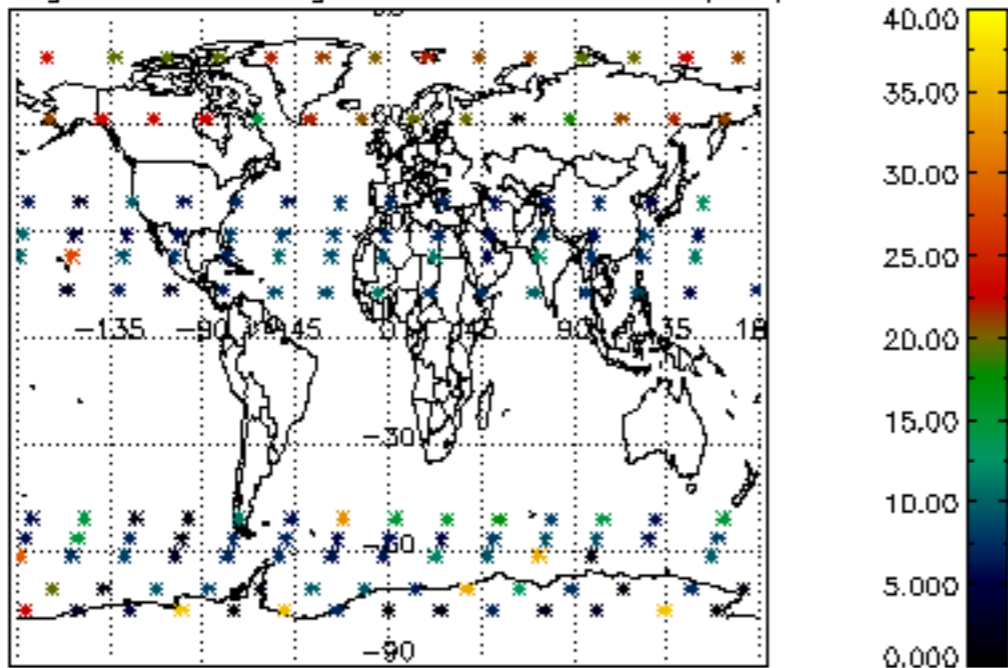
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

