

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	29APR2013 08:57:33
Data source version	GOMOS/6.01
Start time of products	26-03-2010 (26MAR2010 00:00:00)
Stop time of products	27-03-2010 (27MAR2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	349
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

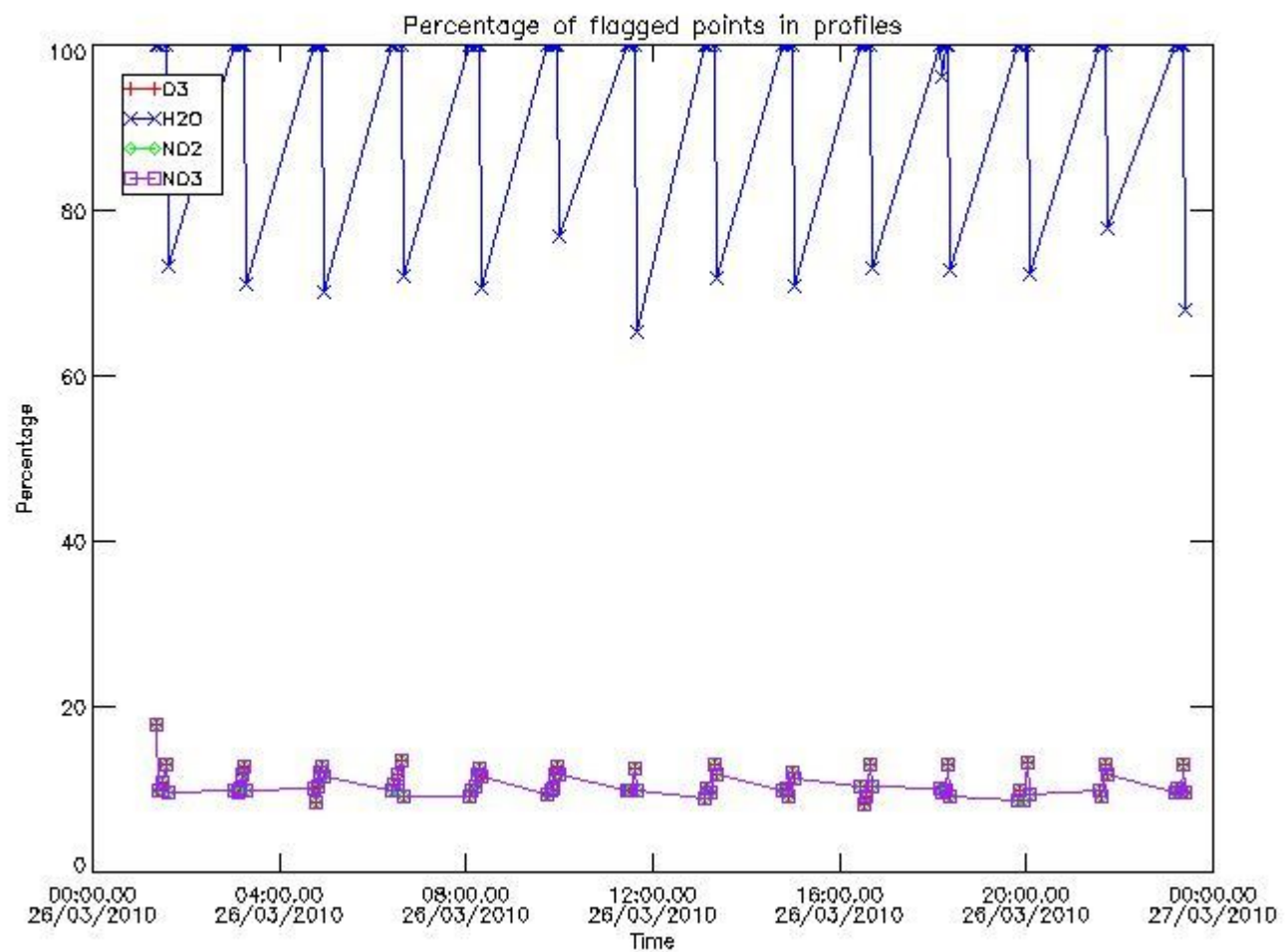
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20100326_000018_00000522088_00045_42183_1260.N1	26-MAR-2010 00:00:18	Straylight	51.500	81	Eta Cen	2.3560	28000.	103	42183	No
2	GOM_NL__2PRFIN20100326_000207_00000422088_00045_42183_1261.N1	26-MAR-2010 00:02:07	Straylight	41.500	64	Gam Cen	2.2000	10600.	83	42183	No
3	GOM_NL__2PRFIN20100326_000434_00000472088_00045_42183_1262.N1	26-MAR-2010 00:04:34	Straylight	47.000	123	Iot Cen	2.7500	10200.	94	42183	No
4	GOM_NL__2PRFIN20100326_000945_00000492088_00045_42183_1263.N1	26-MAR-2010 00:09:45	Straylight	49.000	106	9Bet Crv	2.6480	5600.0	98	42183	No
5	GOM_NL__2PRFIN20100326_001149_00000472088_00045_42183_1264.N1	26-MAR-2010 00:11:49	Twilight_stray	46.500	100	4Gam Crv	2.5800	13100.	93	42183	No
6	GOM_NL__2PRFIN20100326_001720_00000512088_00045_42183_1265.N1	26-MAR-2010 00:17:20	Bright	51.000	121	29Gam Vir	2.7400	7200.0	102	42183	No
7	GOM_NL__2PRFIN20100326_002158_00000442088_00045_42183_1266.N1	26-MAR-2010 00:21:58	Bright	43.500	62	94Bet Leo	2.1360	9700.0	87	42183	No
8	GOM_NL__2PRFIN20100326_002325_00000372088_00045_42183_1267.N1	26-MAR-2010 00:23:25	Bright	36.500	96	68Del Leo	2.5600	9300.0	73	42183	No
9	GOM_NL__2PRFIN20100326_003020_00000372088_00045_42183_1268.N1	26-MAR-2010 00:30:20	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	42183	No
10	GOM_NL__2PRFIN20100326_003338_00000382088_00045_42183_1269.N1	26-MAR-2010 00:33:38	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	42183	No
11	GOM_NL__2PRFIN20100326_003509_00000342088_00045_42183_1270.N1	26-MAR-2010 00:35:09	Bright	34.000	36	50Alp UMa	1.8000	6300.0	68	42183	No
12	GOM_NL__2PRFIN20100326_003638_00000452088_00045_42183_1271.N1	26-MAR-2010 00:36:38	Bright	44.500	55	79Zet UMa	2.0600	10200.	89	42183	No
13	GOM_NL__2PRFIN20100326_004150_00000382088_00045_42183_1272.N1	26-MAR-2010 00:41:50	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	42183	No
14	GOM_NL__2PRFIN20100326_005048_00000362088_00045_42183_1273.N1	26-MAR-2010 00:50:48	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	42183	No
15	GOM_NL__2PRFIN20100326_005557_00000372088_00045_42183_1274.N1	26-MAR-2010 00:55:57	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	42183	No
16	GOM_NL__2PRFIN20100326_005734_00000442088_00045_42183_1275.N1	26-MAR-2010 00:57:34	Bright	43.500	66	37Gam Cyg	2.2080	5900.0	87	42183	No
17	GOM_NL__2PRFIN20100326_005927_00000412088_00045_42183_1276.N1	26-MAR-2010 00:59:27	Bright	41.000	92	53Eps Cyg	2.5000	4500.0	82	42183	No
18	GOM_NL__2PRFIN20100326_010841_00000592088_00045_42183_1277.N1	26-MAR-2010 01:08:41	Straylight	58.500	11	53Alp Aql	0.76500	8000.0	117	42183	No
19	GOM_NL__2PRFIN20100326_012202_00000512088_00045_42183_1278.N1	26-MAR-2010 01:22:02	Dark	51.000	57	34Sig Sgr	2.0660	26000.	102	42183	No
20	GOM_NL__2PRFIN20100326_012538_00000572088_00045_42183_1279.N1	26-MAR-2010 01:25:38	Dark	56.500	38	20Eps Sgr	1.8360	11000.	113	42183	No
21	GOM_NL__2PRFIN20100326_012905_00000522088_00046_42184_1263.N1	26-MAR-2010 01:29:05	Dark	51.500	85	Kap Sco	2.4070	28000.	103	42184	No
22	GOM_NL__2PRFIN20100326_013048_00000472088_00046_42184_1264.N1	26-MAR-2010 01:30:48	Dark	46.500	141	Bet Ara	2.8400	4600.0	93	42184	No
23	GOM_NL__2PRFIN20100326_013409_00000402088_00046_42184_1265.N1	26-MAR-2010 01:34:09	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	42184	No
24	GOM_NL__2PRFIN20100326_013651_00000532088_00046_42184_1266.N1	26-MAR-2010 01:36:51	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	42184	No
25	GOM_NL__2PRFIN20100326_013920_00000492088_00046_42184_1267.N1	26-MAR-2010 01:39:20	Straylight	48.500	78	Alp Lup	2.3040	28000.	97	42184	No
26	GOM_NL__2PRFIN20100326_014054_00000512088_00046_42184_1268.N1	26-MAR-2010 01:40:54	Straylight	50.500	81	Eta Cen	2.3560	28000.	101	42184	No
27	GOM_NL__2PRFIN20100326_014244_00000442088_00046_42184_1269.N1	26-MAR-2010 01:42:44	Straylight	44.000	64	Gam Cen	2.2000	10600.	88	42184	No
28	GOM_NL__2PRFIN20100326_014511_00000462088_00046_42184_1270.N1	26-MAR-2010 01:45:11	Straylight	46.000	123	Iot Cen	2.7500	10200.	92	42184	No
29	GOM_NL__2PRFIN20100326_015021_00000472088_00046_42184_1271.N1	26-MAR-2010 01:50:21	Straylight	47.000	106	9Bet Crv	2.6480	5600.0	94	42184	No
30	GOM_NL__2PRFIN20100326_015225_00000452088_00046_42184_1272.N1	26-MAR-2010 01:52:25	Twilight_stray	44.500	100	4Gam Crv	2.5800	13100.	89	42184	No
31	GOM_NL__2PRFIN20100326_015756_00000492088_00046_42184_1273.N1	26-MAR-2010 01:57:56	Bright	49.000	121	29Gam Vir	2.7400	7200.0	98	42184	No
32	GOM_NL__2PRFIN20100326_020233_00000422088_00046_42184_1274.N1	26-MAR-2010 02:02:33	Bright	42.000	62	94Bet Leo	2.1360	9700.0	84	42184	No
33	GOM_NL__2PRFIN20100326_020400_00000392088_00046_42184_1275.N1	26-MAR-2010 02:04:00	Bright	38.500	96	68Del Leo	2.5600	9300.0	77	42184	No
34	GOM_NL__2PRFIN20100326_021055_00000392088_00046_42184_1276.N1	26-MAR-2010 02:10:55	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	42184	No
35	GOM_NL__2PRFIN20100326_021413_00000382088_00046_42184_1277.N1	26-MAR-2010 02:14:13	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	42184	No
36	GOM_NL__2PRFIN20100326_021545_00000392088_00046_42184_1278.N1	26-MAR-2010 02:15:45	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	42184	No
37	GOM_NL__2PRFIN20100326_021713_00000452088_00046_42184_1279.N1	26-MAR-2010 02:17:13	Bright	45.000	55	79Zet UMa	2.0600	10200.	90	42184	No
38	GOM_NL__2PRFIN20100326_022226_00000402088_00046_42184_1280.N1	26-MAR-2010 02:22:26	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	42184	No
39	GOM_NL__2PRFIN20100326_023124_00000372088_00046_42184_1281.N1	26-MAR-2010 02:31:24	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	42184	No
40	GOM_NL__2PRFIN20100326_023633_00000412088_00046_42184_1282.N1	26-MAR-2010 02:36:33	Bright	40.500	19	50Alp Cyg	1.2460	10500.	81	42184	No
41	GOM_NL__2PRFIN20100326_023810_00000392088_00046_42184_1283.N1	26-MAR-2010 02:38:10	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	42184	No
42	GOM_NL__2PRFIN20100326_024003_00000572088_00046_42184_1284.N1	26-MAR-2010 02:40:03	Bright	57.000	92	53Eps Cyg	2.5000	4500.0	114	42184	No

338	GOM_NL__2PRFIN20100326_232203_000000402088_00059_42197_1401.N1	26-MAR-2010 23:22:03	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	42197	No
339	GOM_NL__2PRFIN20100326_232445_000000542088_00059_42197_1402.N1	26-MAR-2010 23:24:45	Dark	53.500	4	Alp1Cen	-0.010000	5800.0	107	42197	No
340	GOM_NL__2PRFIN20100326_232716_000000462088_00059_42197_1403.N1	26-MAR-2010 23:27:16	Straylight	46.000	78	Alp Lup	2.3040	28000.	92	42197	No
341	GOM_NL__2PRFIN20100326_232850_000000492088_00059_42197_1404.N1	26-MAR-2010 23:28:50	Straylight	49.000	81	Eta Cen	2.3560	28000.	98	42197	No
342	GOM_NL__2PRFIN20100326_233035_000000422088_00059_42197_1405.N1	26-MAR-2010 23:30:35	Straylight	41.500	64	Gam Cen	2.2000	10600.	83	42197	No
343	GOM_NL__2PRFIN20100326_233304_000000452088_00059_42197_1406.N1	26-MAR-2010 23:33:04	Straylight	45.000	123	Iot Cen	2.7500	10200.	90	42197	No
344	GOM_NL__2PRFIN20100326_233810_000000502088_00059_42197_1407.N1	26-MAR-2010 23:38:10	Straylight	49.500	106	9Bet Crv	2.6480	5600.0	99	42197	No
345	GOM_NL__2PRFIN20100326_234014_000000442088_00059_42197_1408.N1	26-MAR-2010 23:40:14	Twl_and_stray	43.500	100	4Gam Crv	2.5800	13100.	87	42197	No
346	GOM_NL__2PRFIN20100326_234541_000000482088_00059_42197_1409.N1	26-MAR-2010 23:45:41	Bright	47.500	121	29Gam Vir	2.7400	7200.0	95	42197	No
347	GOM_NL__2PRFIN20100326_235018_000000412088_00059_42197_1410.N1	26-MAR-2010 23:50:18	Bright	41.000	62	94Bet Leo	2.1360	9700.0	82	42197	No
348	GOM_NL__2PRFIN20100326_235147_000000372088_00059_42197_1411.N1	26-MAR-2010 23:51:47	Bright	36.500	96	68Del Leo	2.5600	9300.0	73	42197	No
349	GOM_NL__2PRFIN20100326_235840_000000392088_00059_42197_1412.N1	26-MAR-2010 23:58:40	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	42197	No

3. Quality information per product

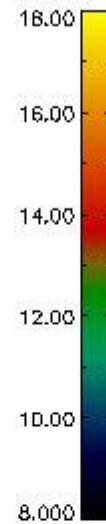
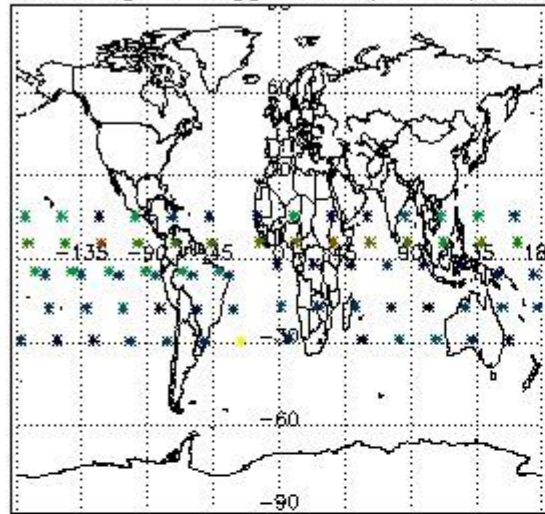
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

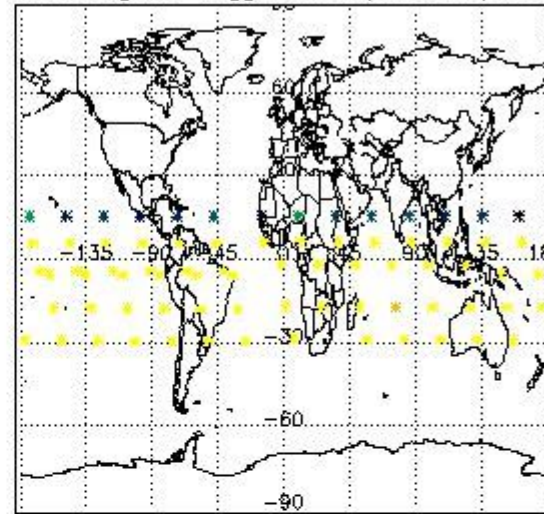


3.2 Plot quality information per product (world map)

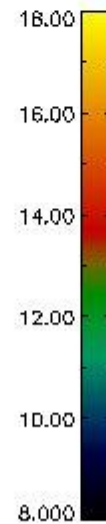
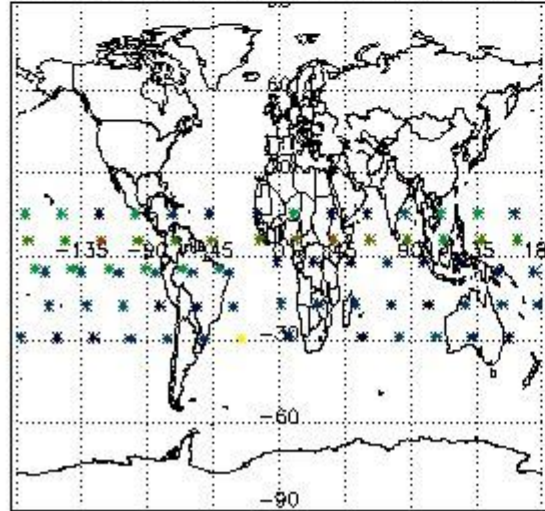
Percentage of flagged data per O3 profile



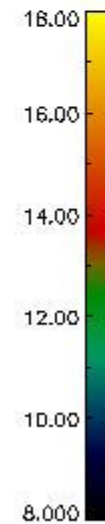
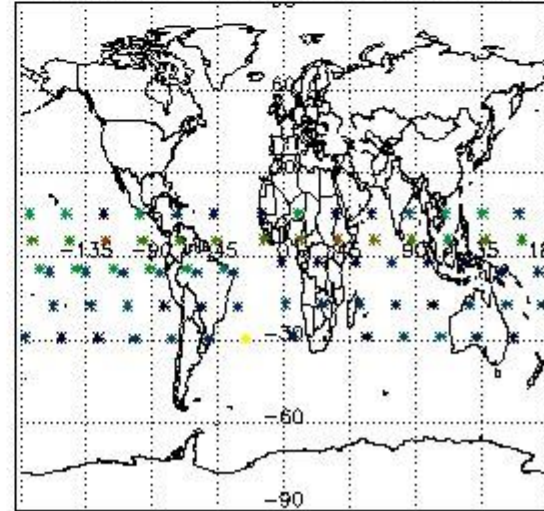
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

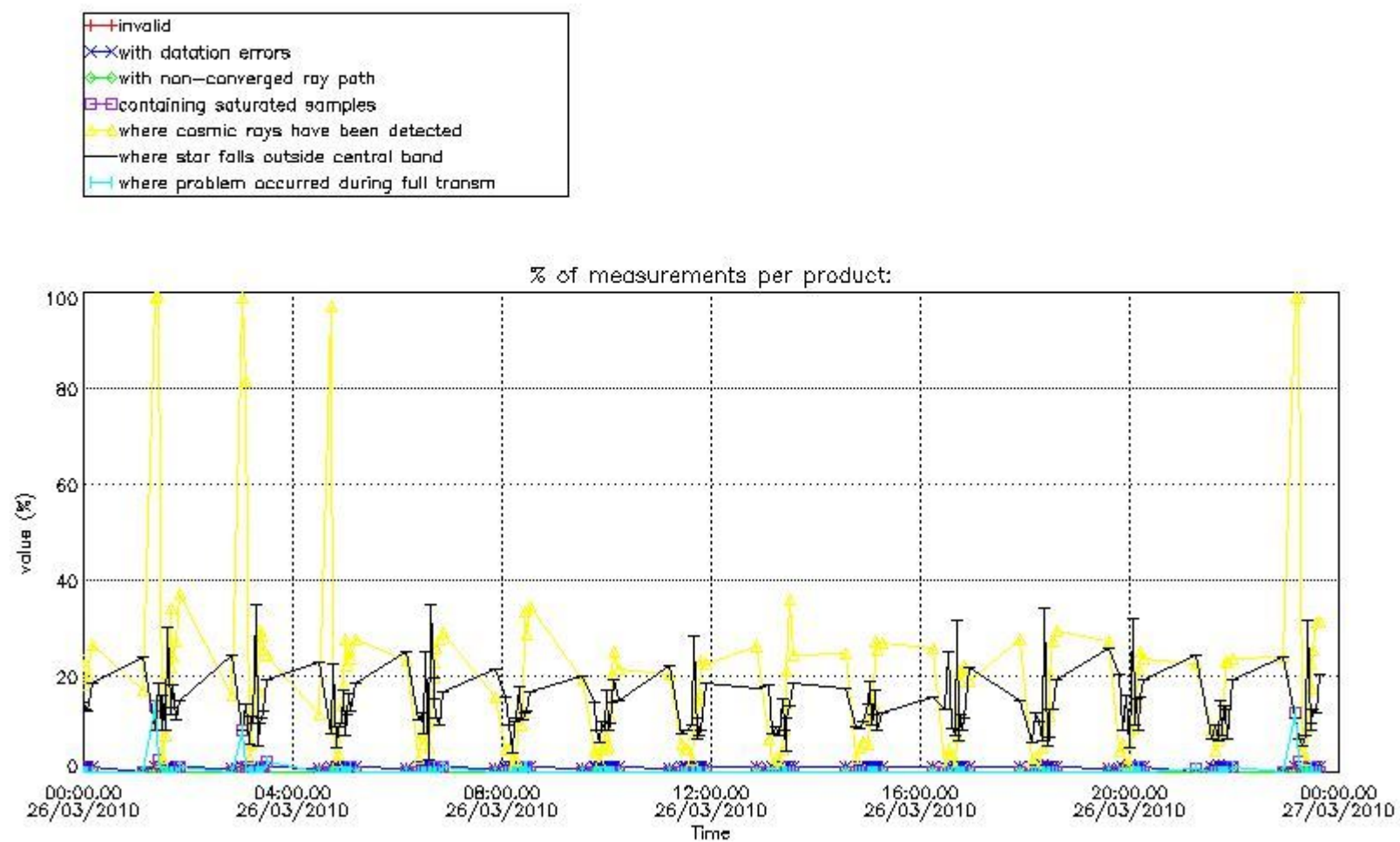


4. Level 1 quality information per product

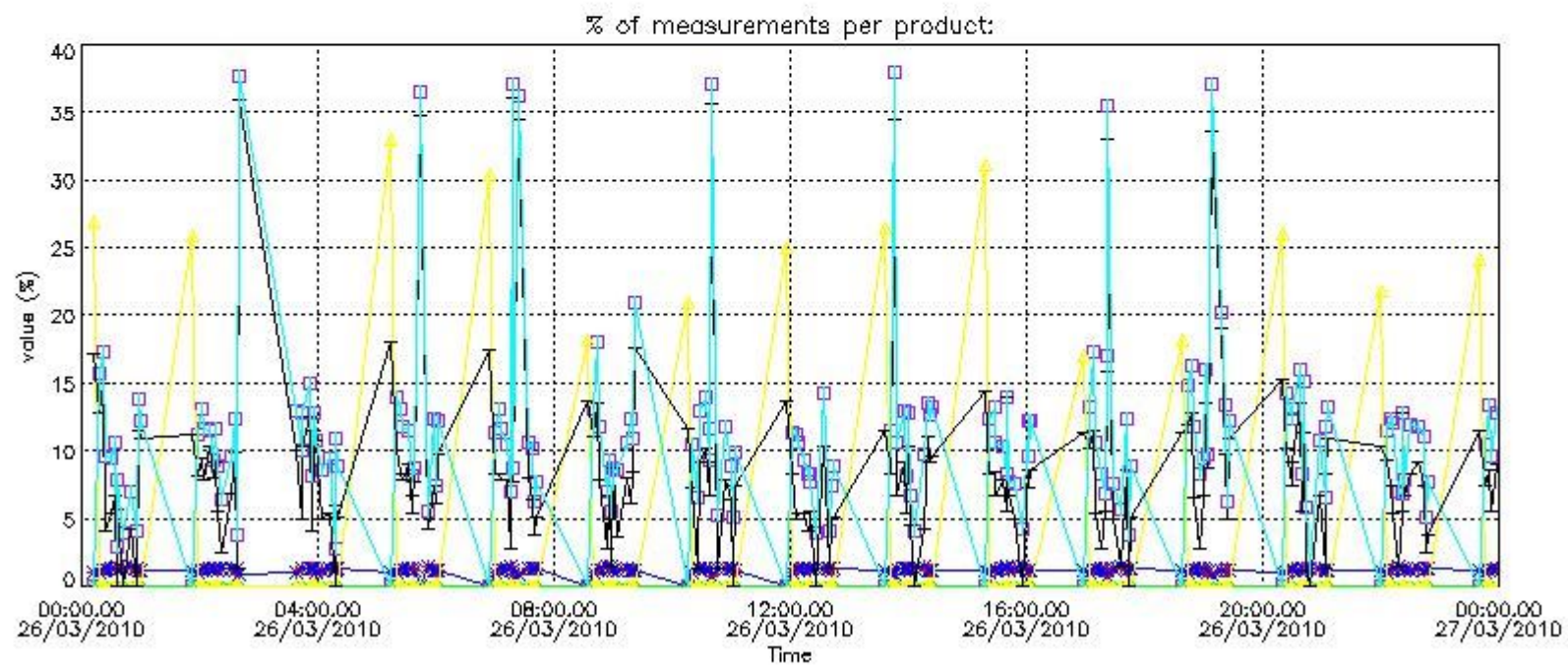
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

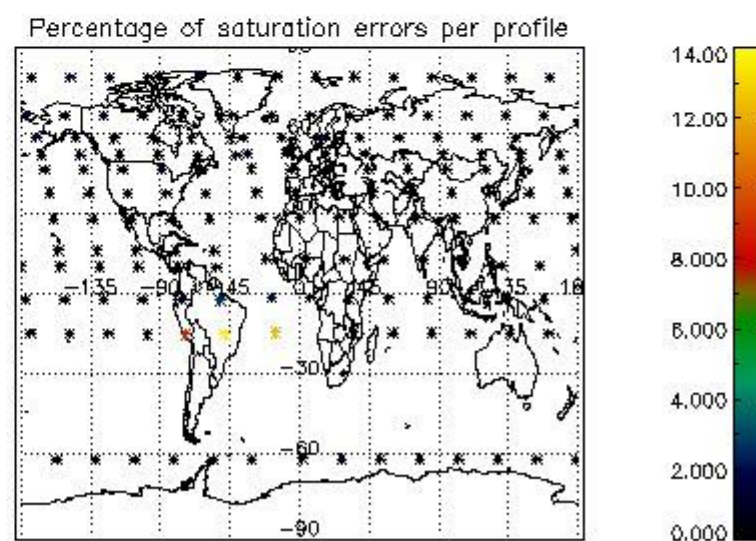
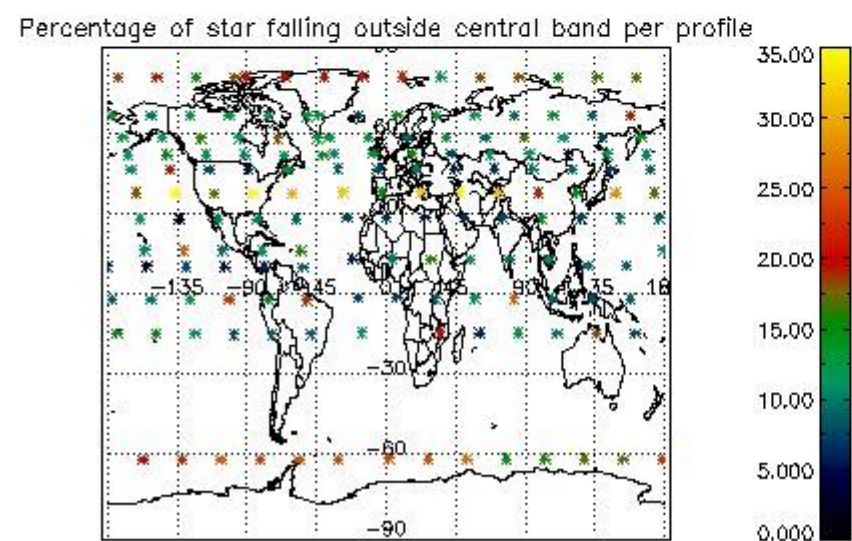
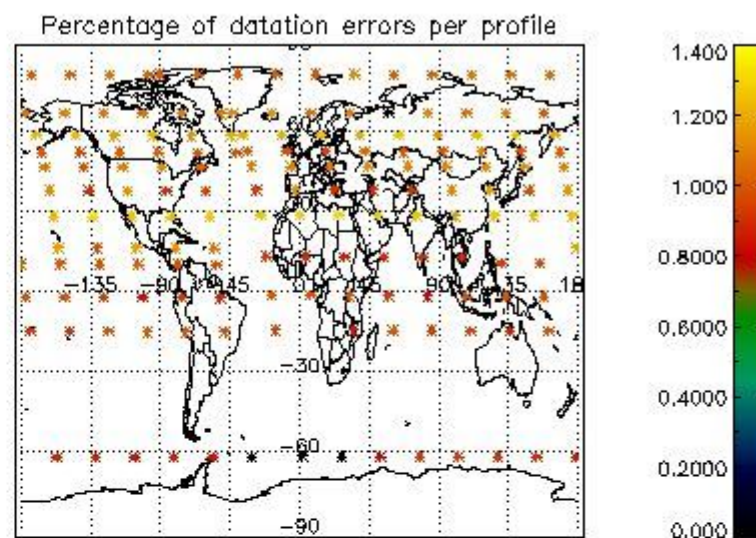
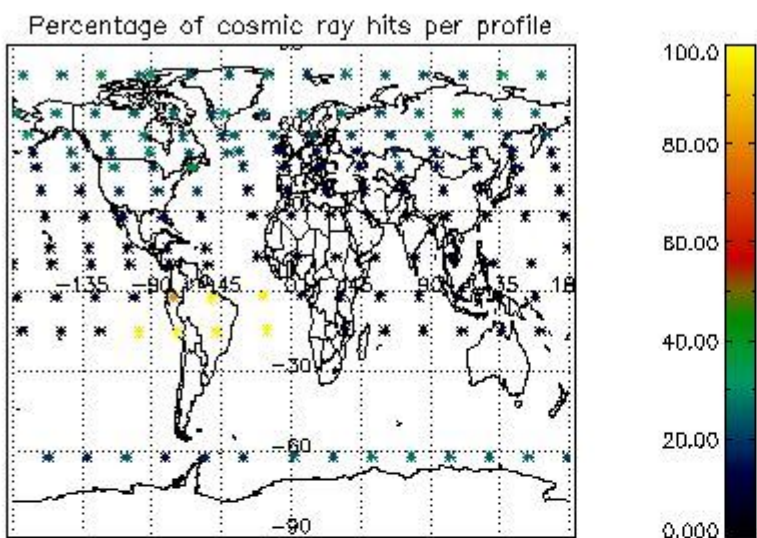


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

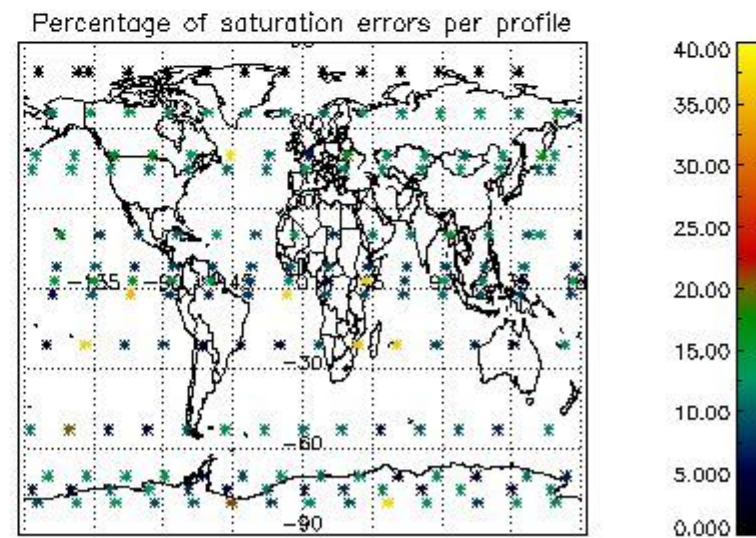
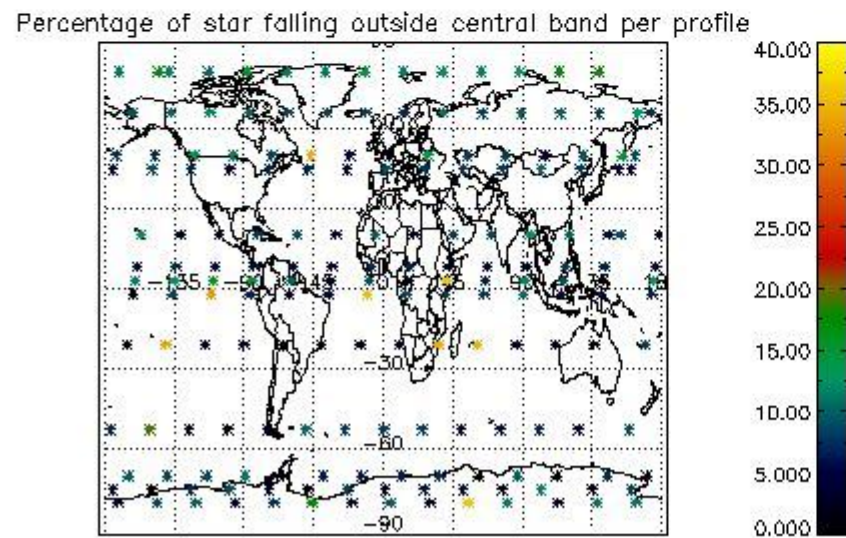
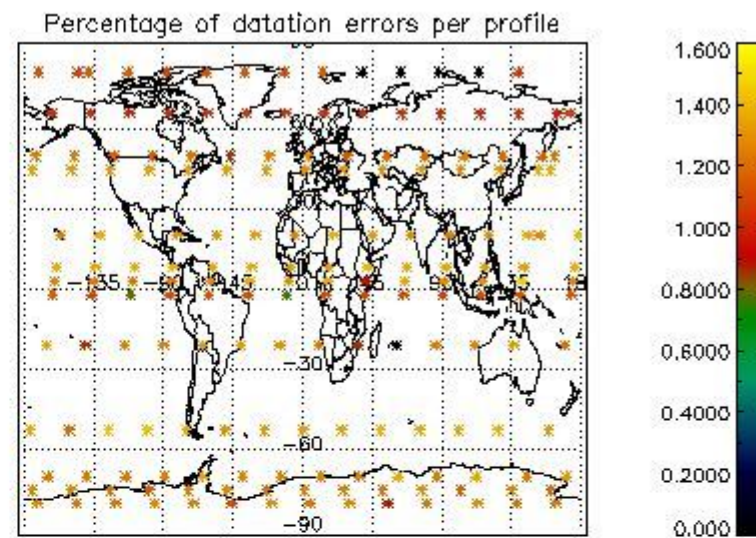
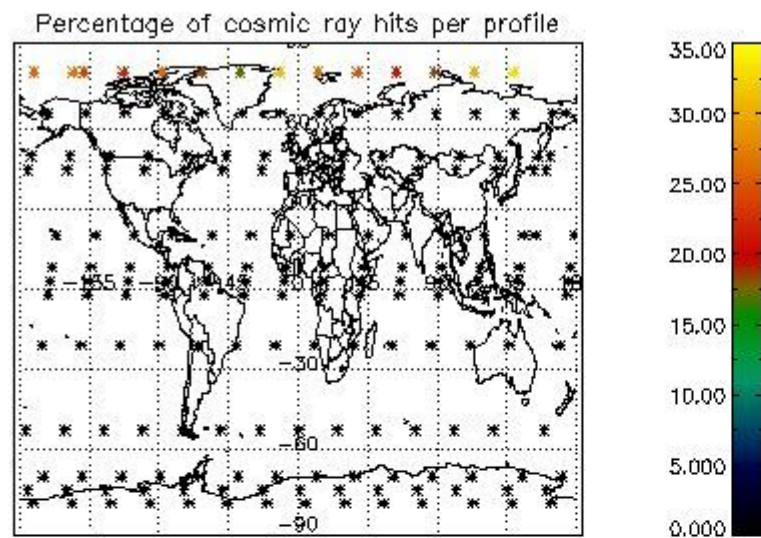


4.2 Plot quality information per product coming from level 1b processing (world map)

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

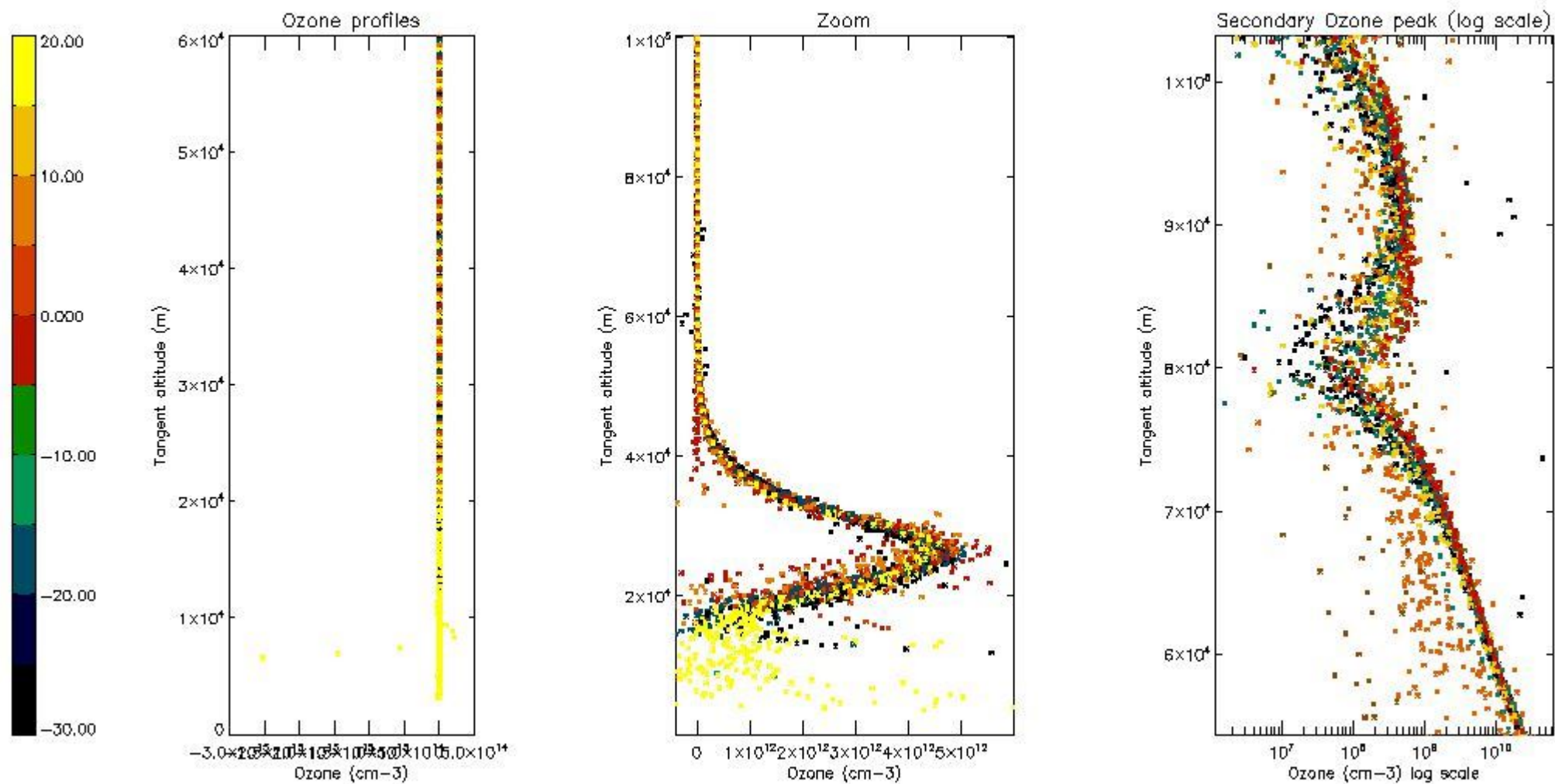
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	13

STD < 10	11
STD < 5	8

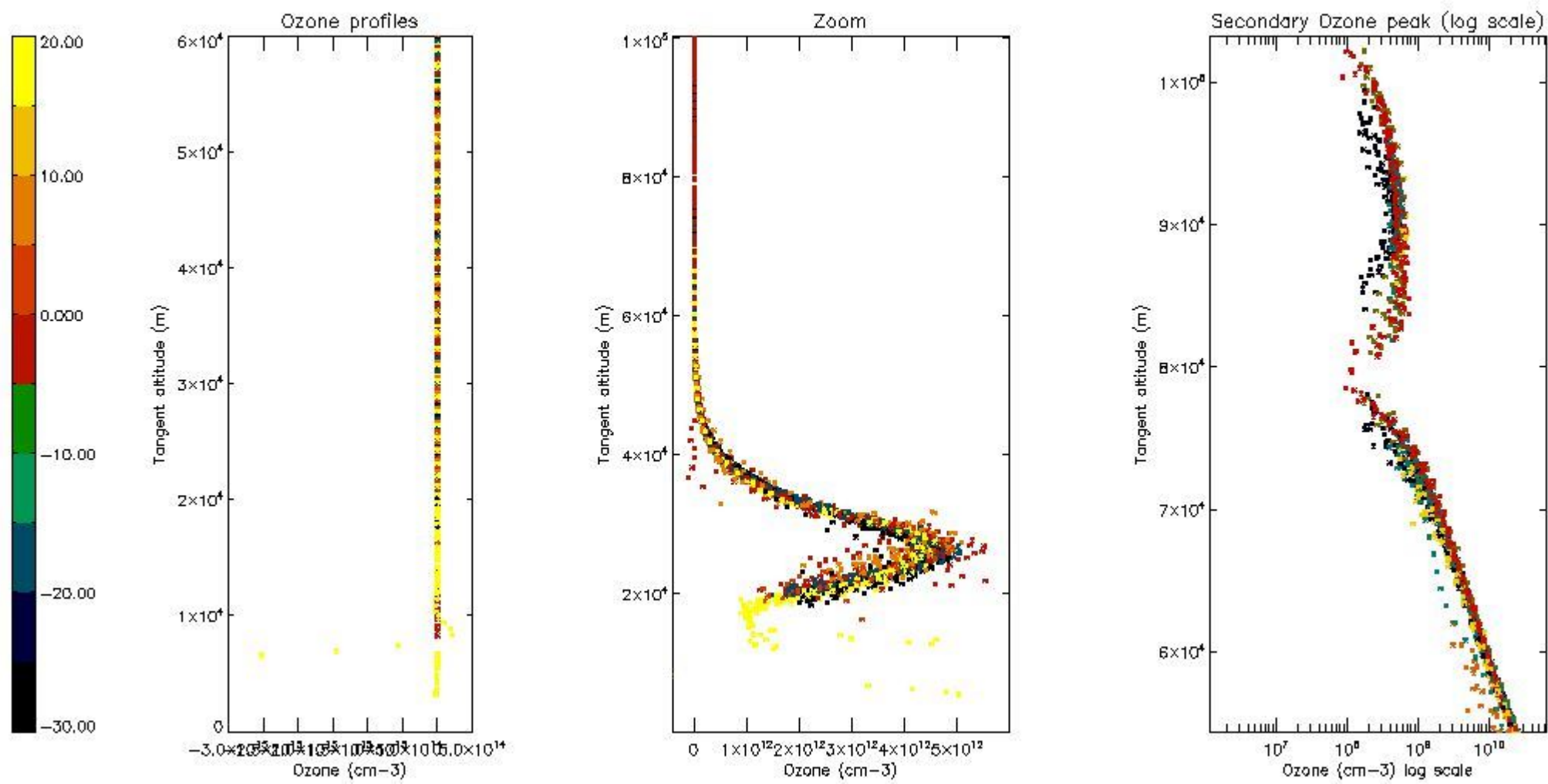
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



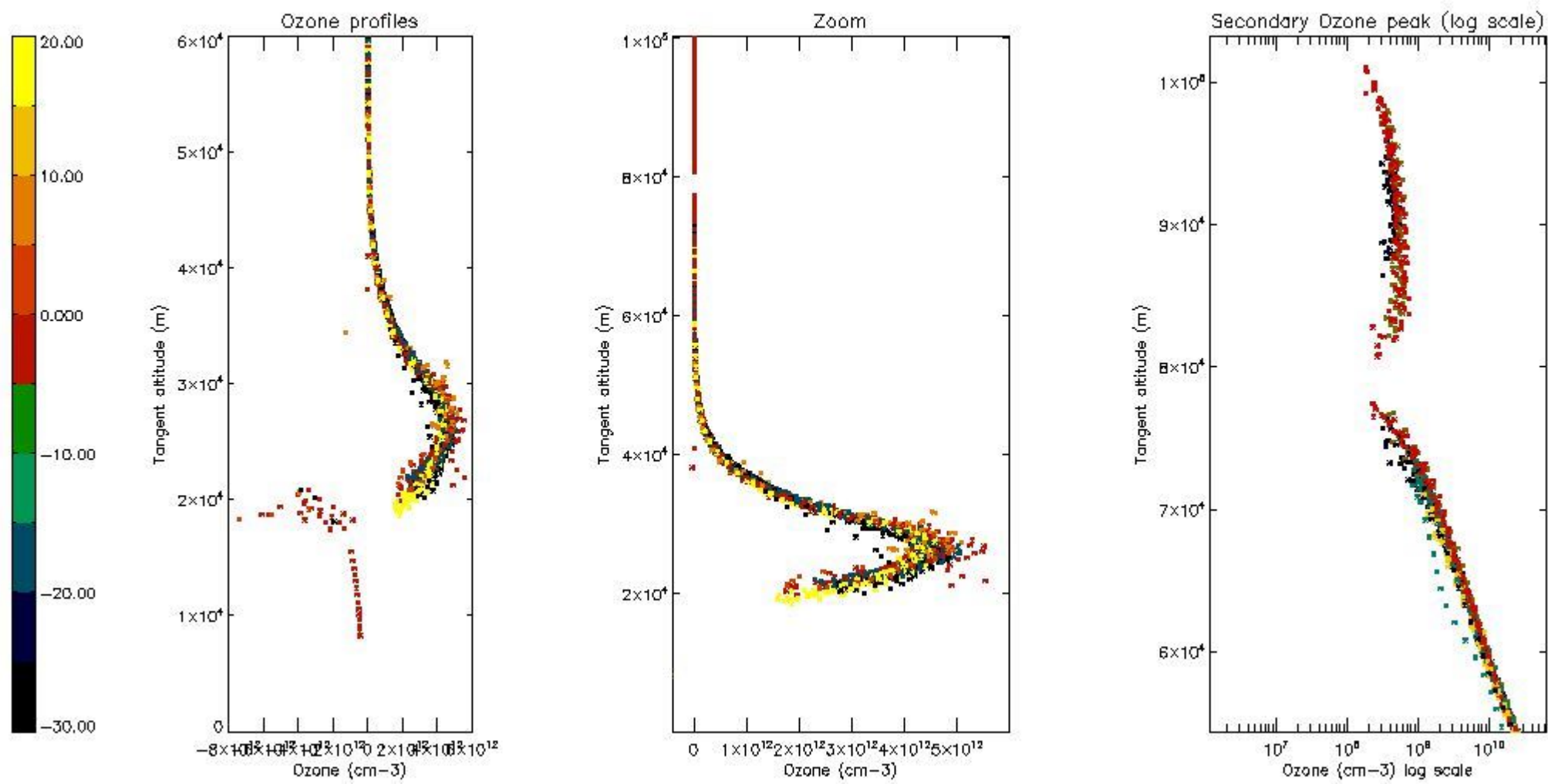
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



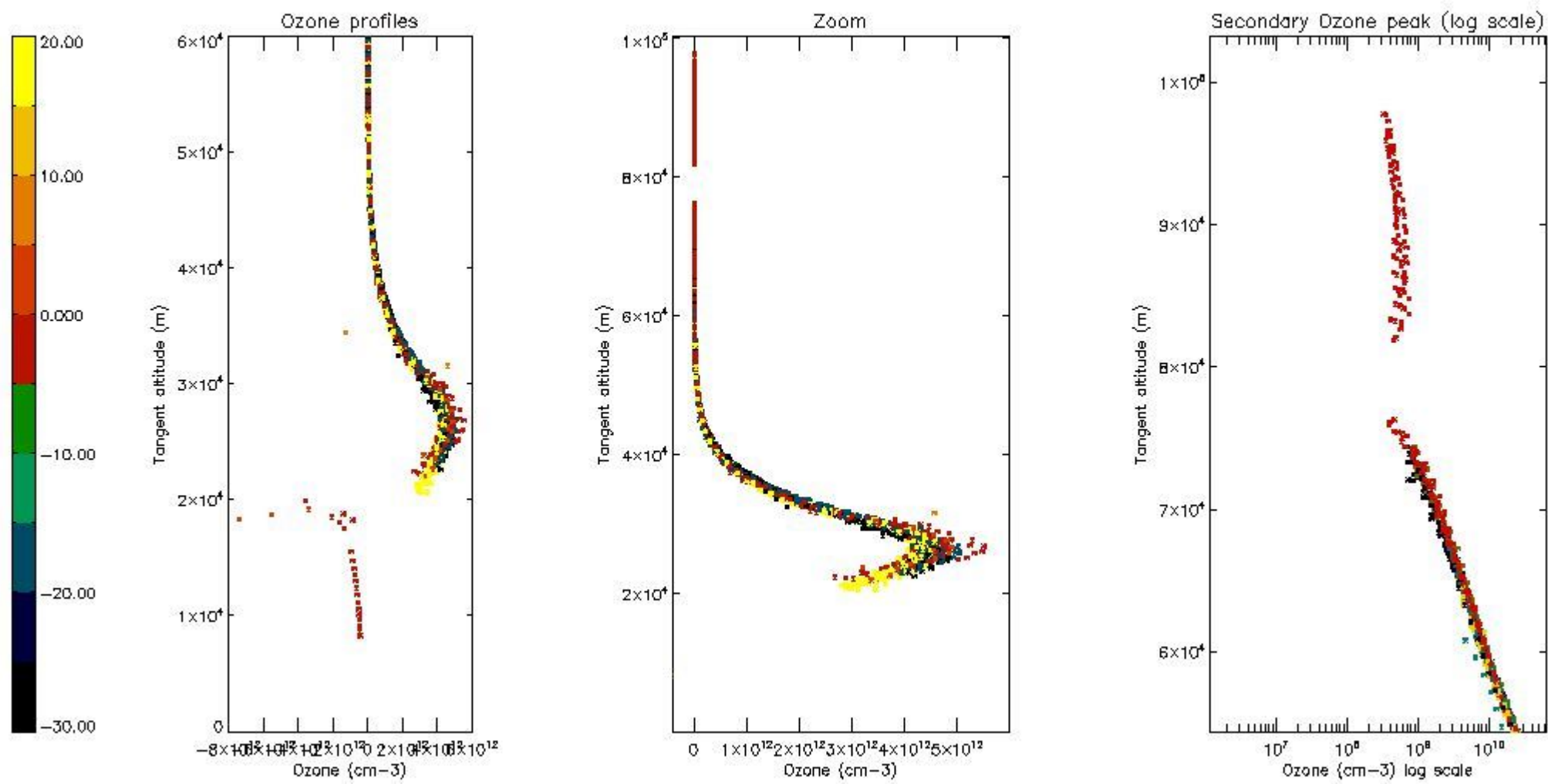
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



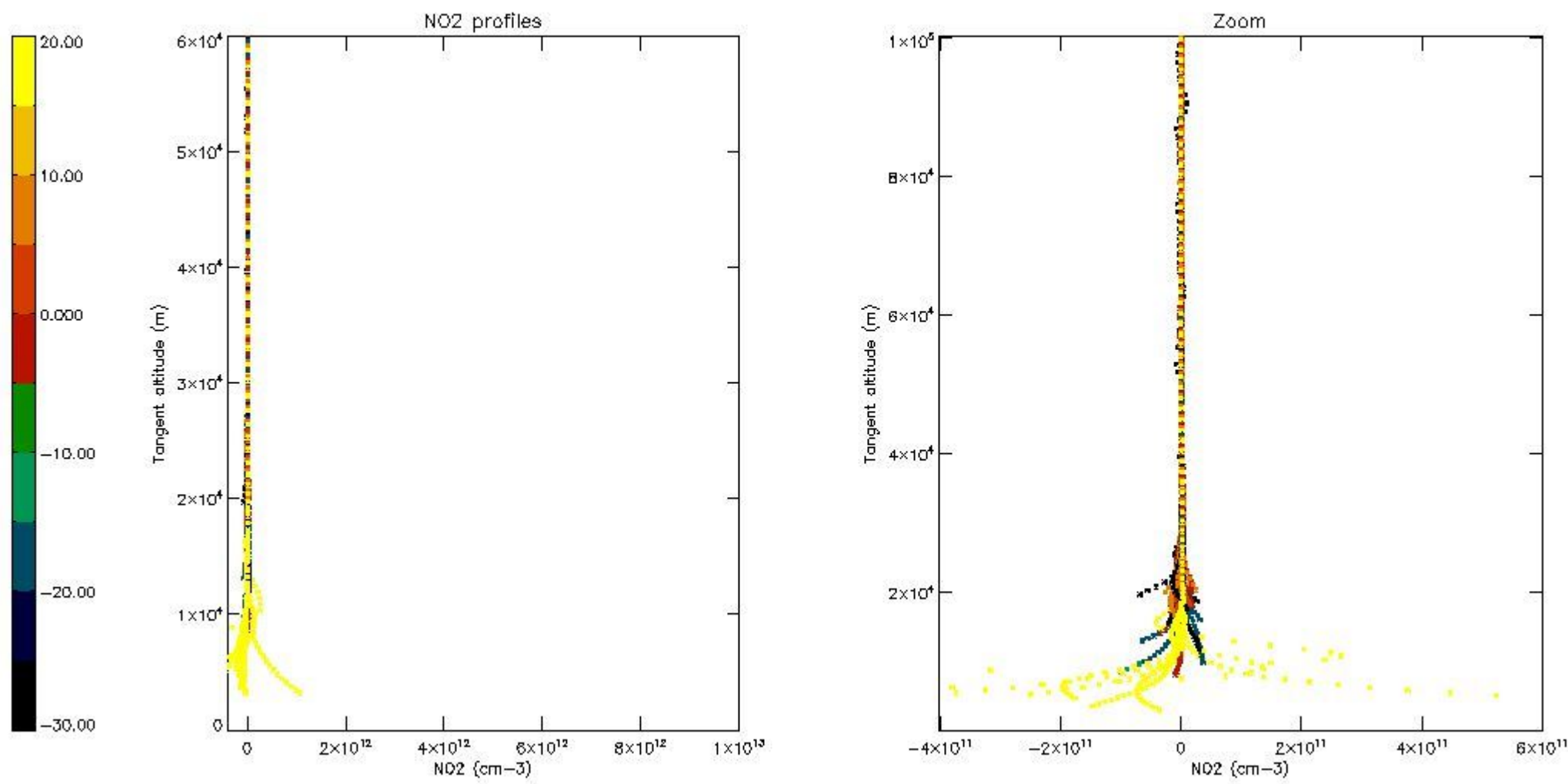
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



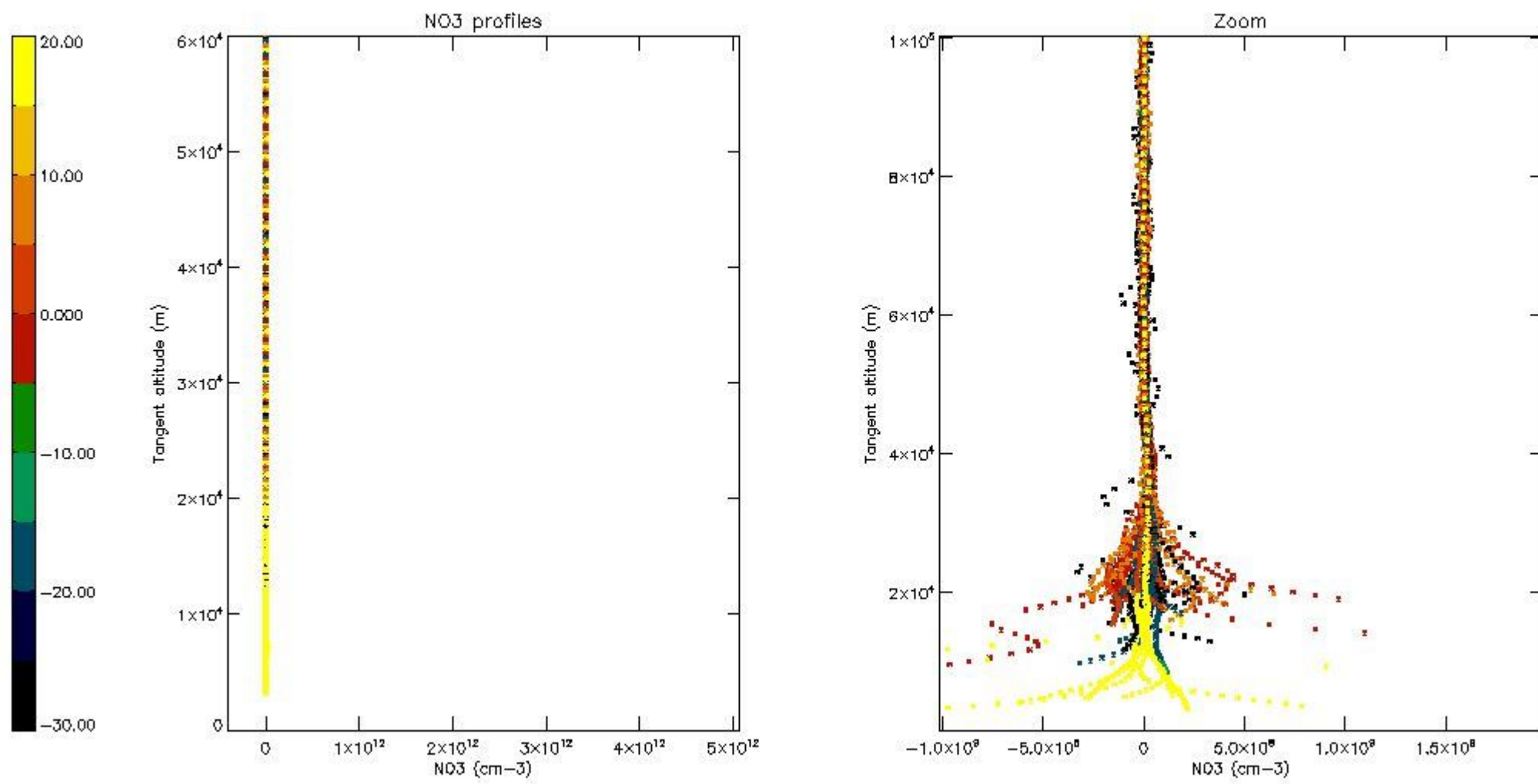
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



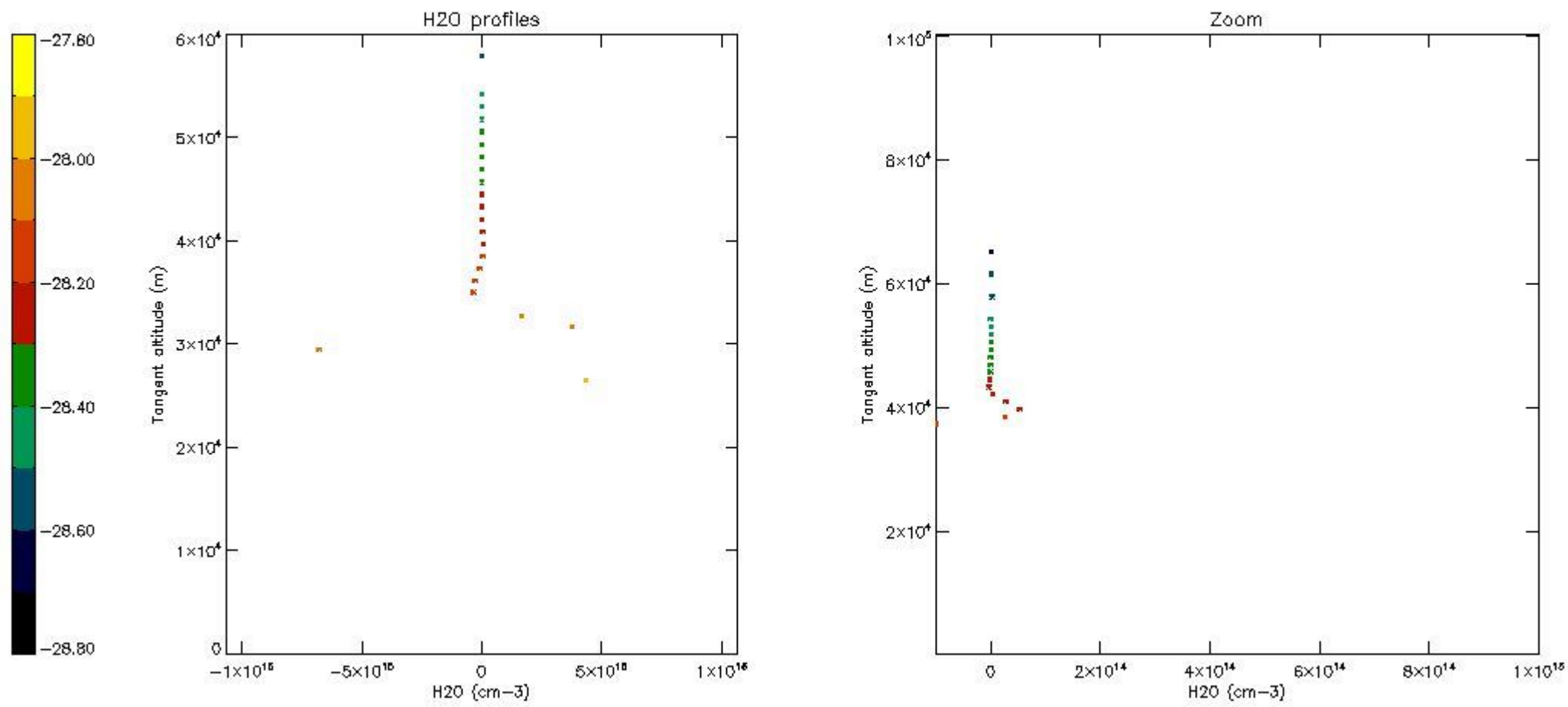
5.7 Plot NO3 profiles for all STD (dark without errors)

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	26-MAR-2010 00:00:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-MAR-2010 00:00:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-MAR-2010 00:00:18

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](#)

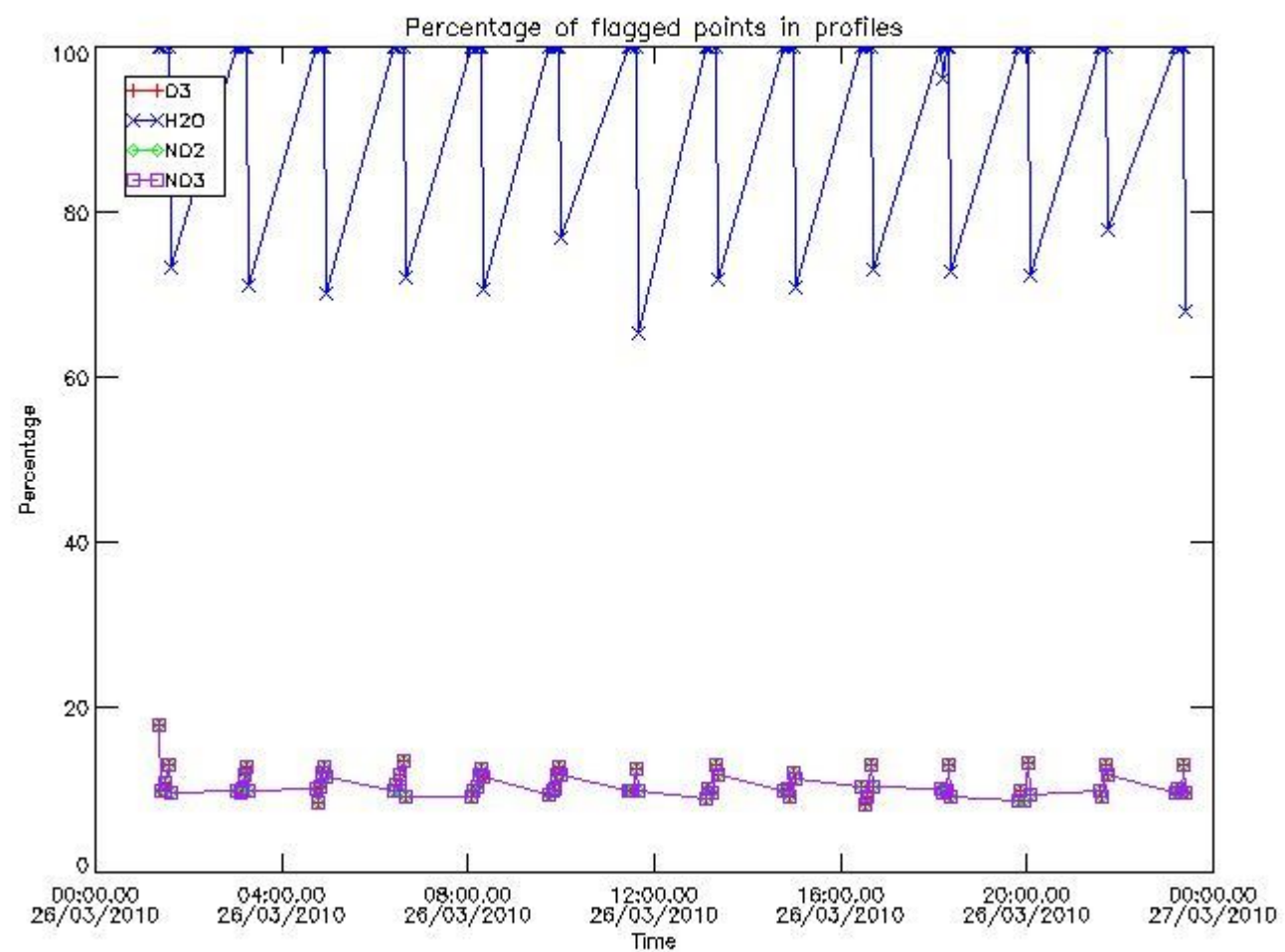
[6. Auxiliary Data Files used for the production reported in section 2](#)

338	GOM_NL__2PRFIN20100326_232203_000000402088_00059_42197_1401.N1	26-MAR-2010 23:22:03	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	42197	No
339	GOM_NL__2PRFIN20100326_232445_000000542088_00059_42197_1402.N1	26-MAR-2010 23:24:45	Dark	53.500	4	Alp1Cen	-0.010000	5800.0	107	42197	No
340	GOM_NL__2PRFIN20100326_232716_000000462088_00059_42197_1403.N1	26-MAR-2010 23:27:16	Straylight	46.000	78	Alp Lup	2.3040	28000.	92	42197	No
341	GOM_NL__2PRFIN20100326_232850_000000492088_00059_42197_1404.N1	26-MAR-2010 23:28:50	Straylight	49.000	81	Eta Cen	2.3560	28000.	98	42197	No
342	GOM_NL__2PRFIN20100326_233035_000000422088_00059_42197_1405.N1	26-MAR-2010 23:30:35	Straylight	41.500	64	Gam Cen	2.2000	10600.	83	42197	No
343	GOM_NL__2PRFIN20100326_233304_000000452088_00059_42197_1406.N1	26-MAR-2010 23:33:04	Straylight	45.000	123	Iot Cen	2.7500	10200.	90	42197	No
344	GOM_NL__2PRFIN20100326_233810_000000502088_00059_42197_1407.N1	26-MAR-2010 23:38:10	Straylight	49.500	106	9Bet Crv	2.6480	5600.0	99	42197	No
345	GOM_NL__2PRFIN20100326_234014_000000442088_00059_42197_1408.N1	26-MAR-2010 23:40:14	Twilight_stray	43.500	100	4Gam Crv	2.5800	13100.	87	42197	No
346	GOM_NL__2PRFIN20100326_234541_000000482088_00059_42197_1409.N1	26-MAR-2010 23:45:41	Bright	47.500	121	29Gam Vir	2.7400	7200.0	95	42197	No
347	GOM_NL__2PRFIN20100326_235018_000000412088_00059_42197_1410.N1	26-MAR-2010 23:50:18	Bright	41.000	62	94Bet Leo	2.1360	9700.0	82	42197	No
348	GOM_NL__2PRFIN20100326_235147_000000372088_00059_42197_1411.N1	26-MAR-2010 23:51:47	Bright	36.500	96	68Del Leo	2.5600	9300.0	73	42197	No
349	GOM_NL__2PRFIN20100326_235840_000000392088_00059_42197_1412.N1	26-MAR-2010 23:58:40	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	42197	No

3. Quality information per product

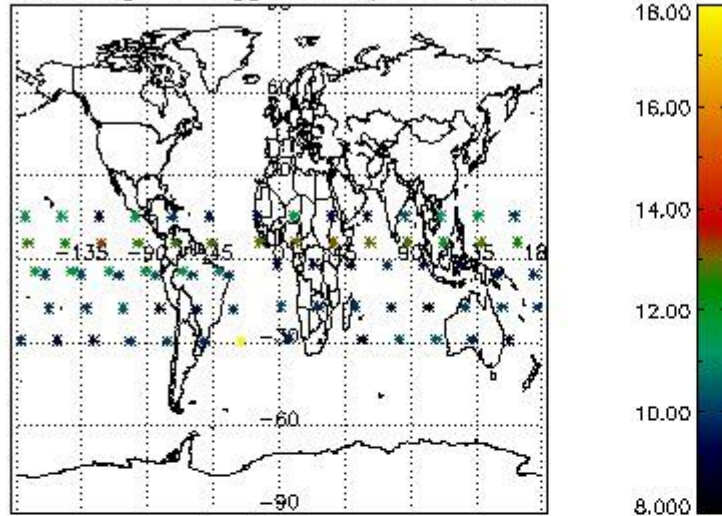
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

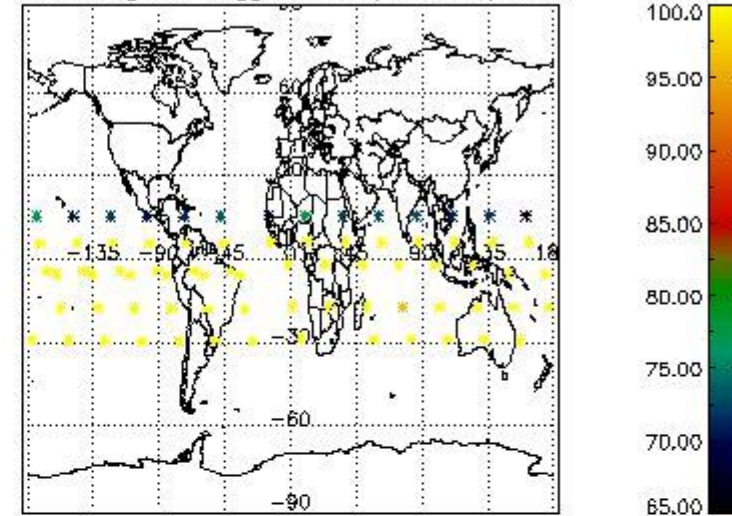


3.2 Plot quality information per product (world map)

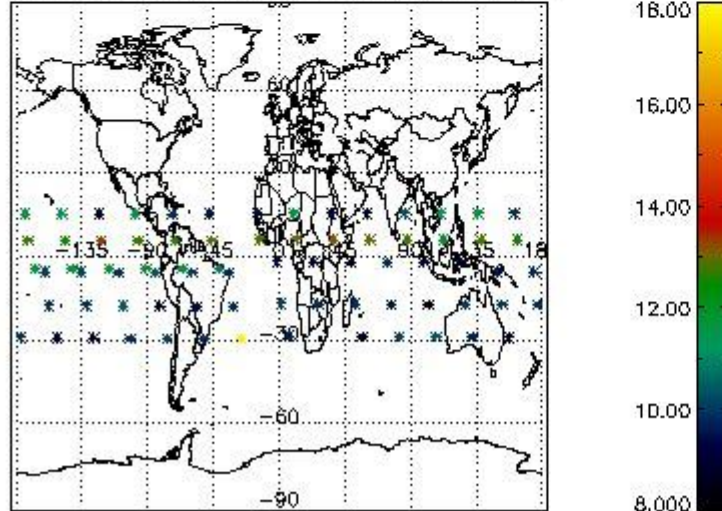
Percentage of flagged data per O3 profile



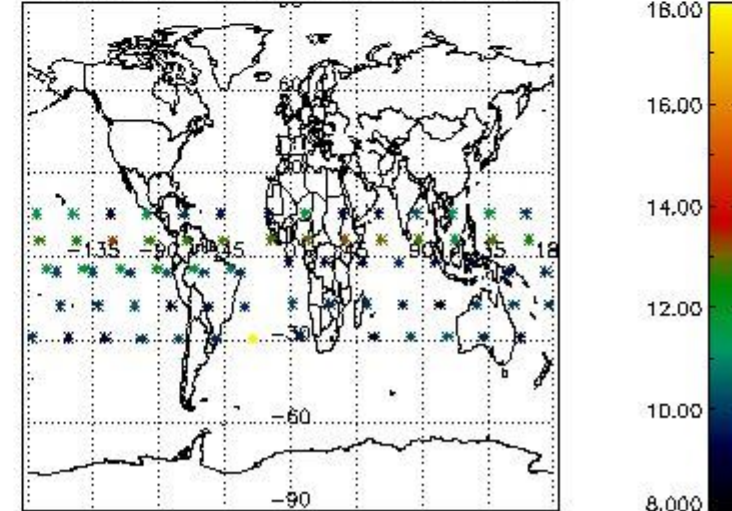
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

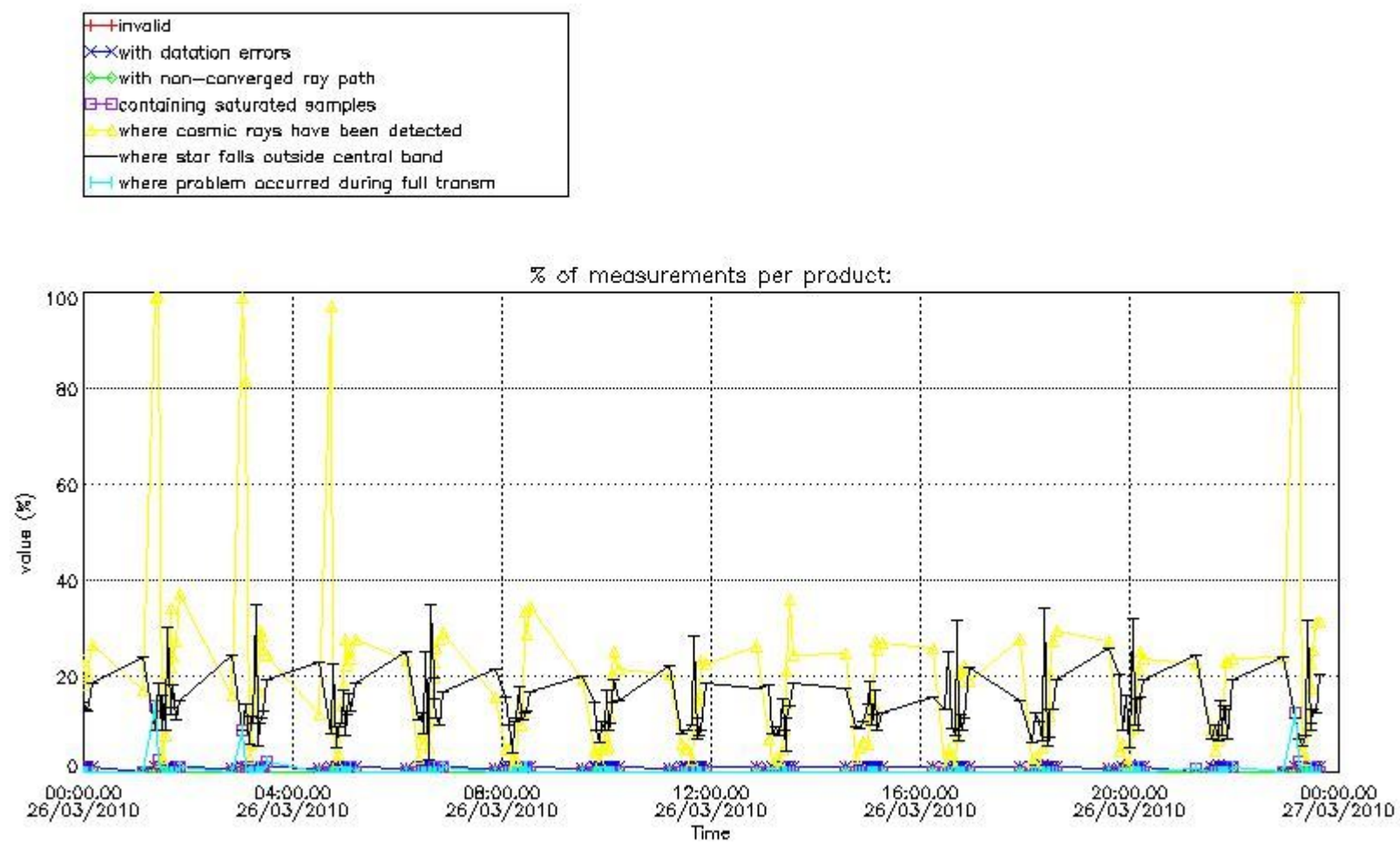


4. Level 1 quality information per product

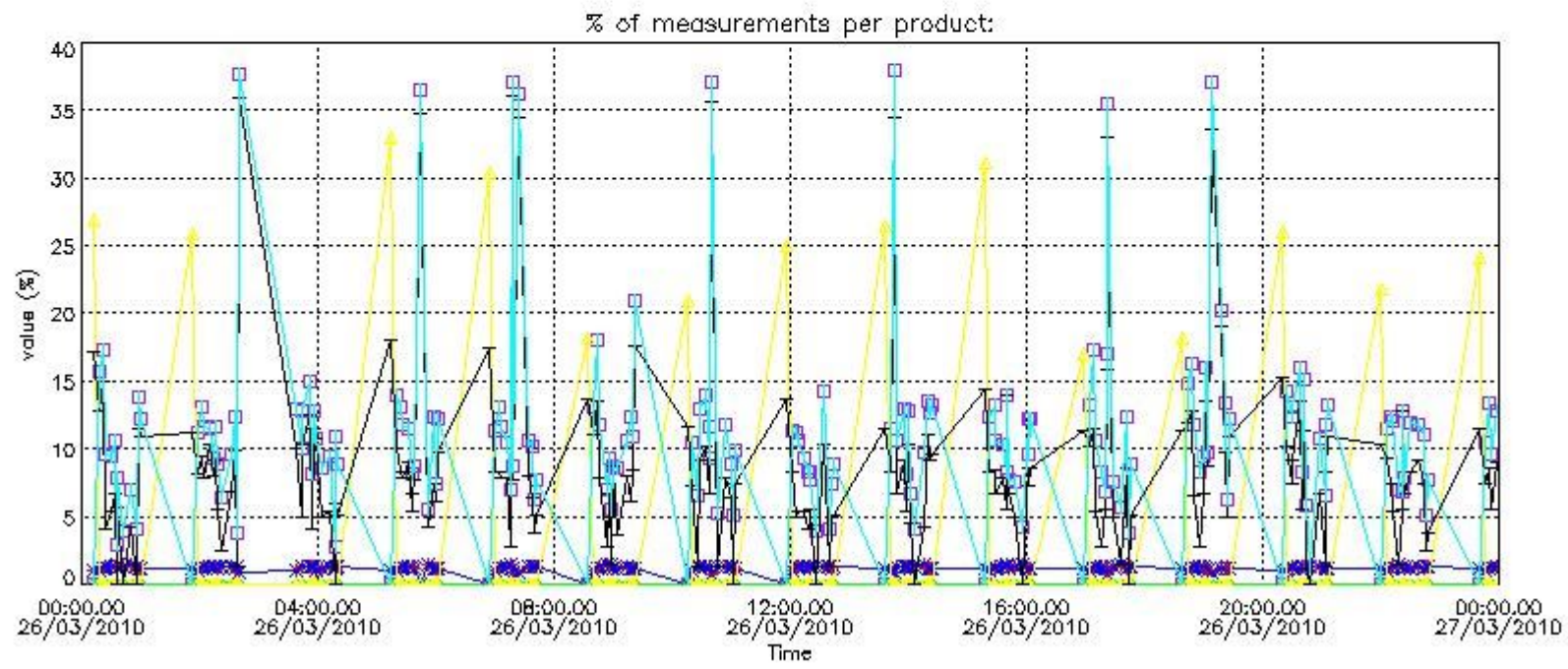
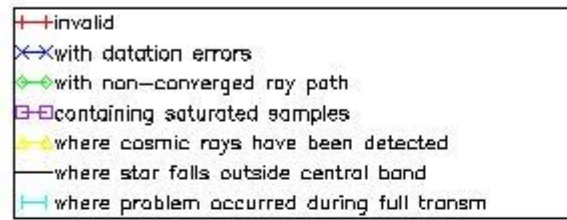
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

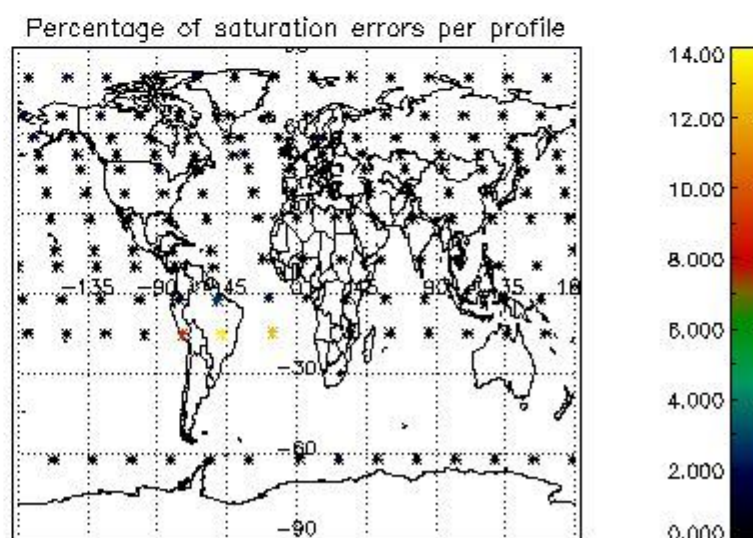
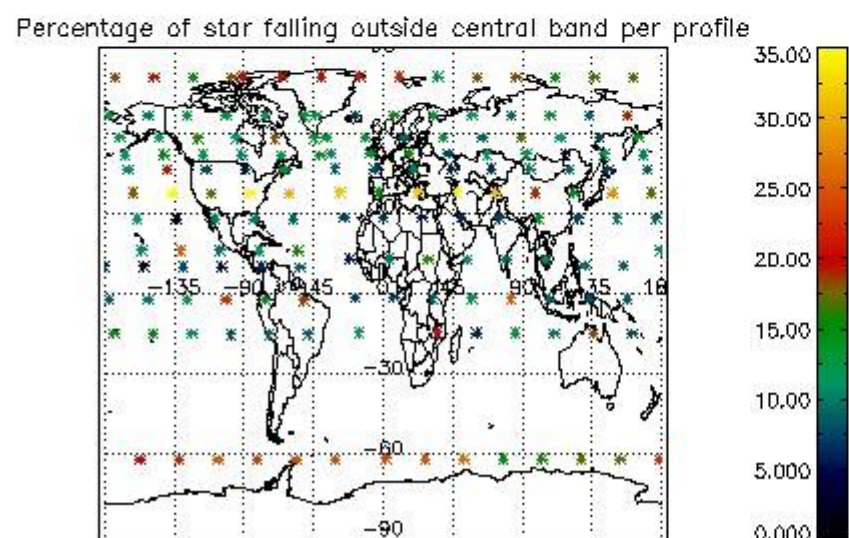
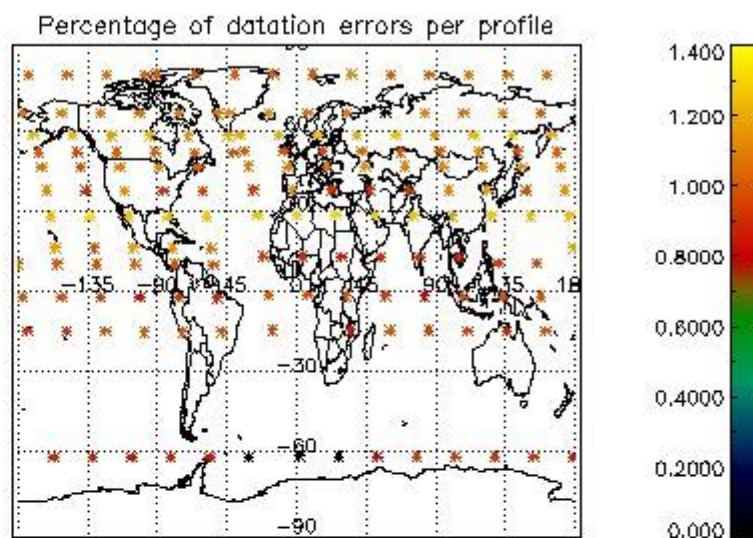
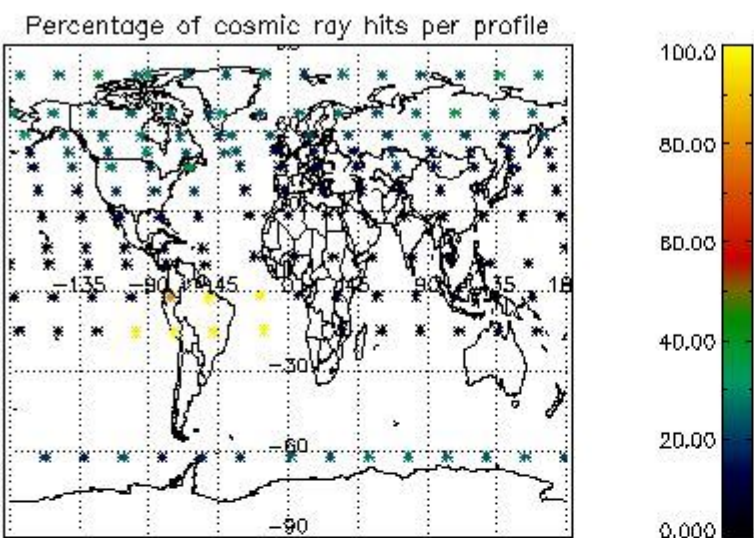


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

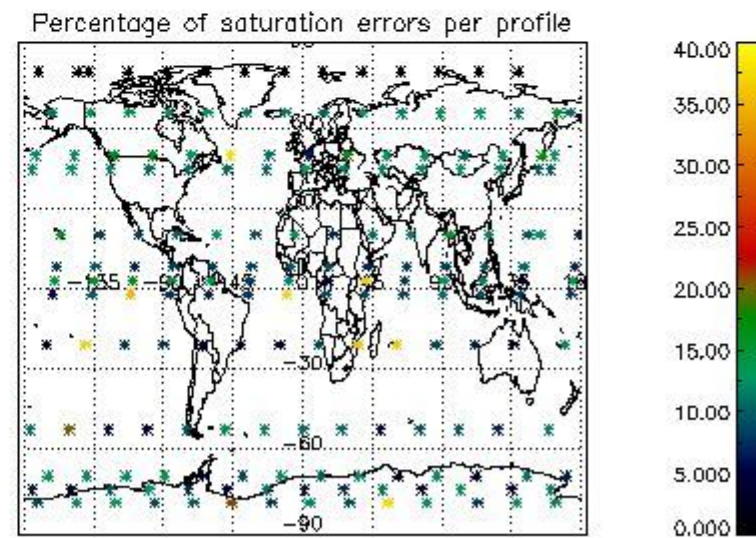
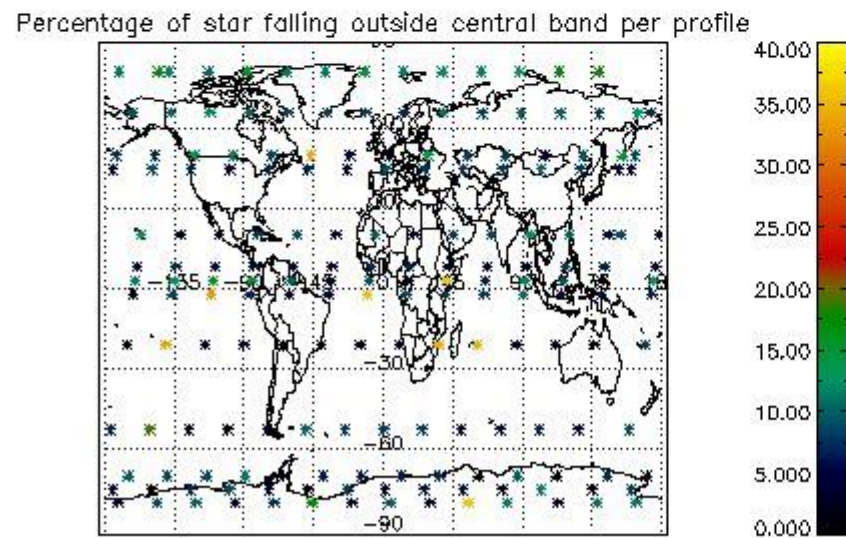
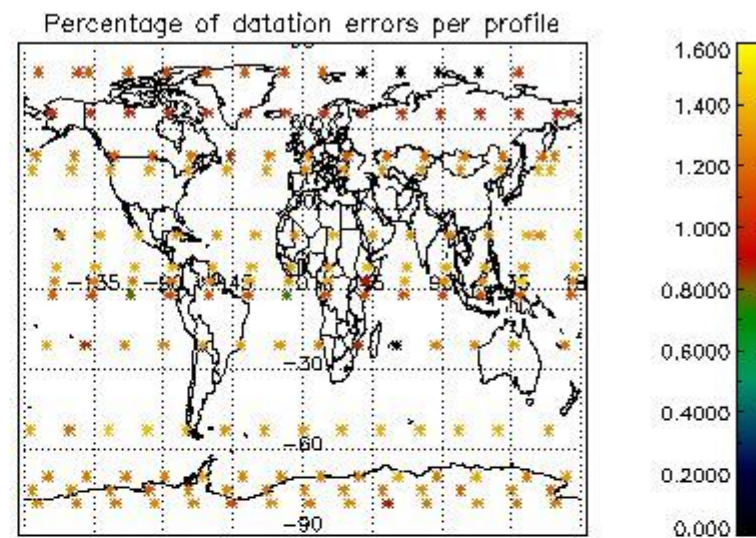
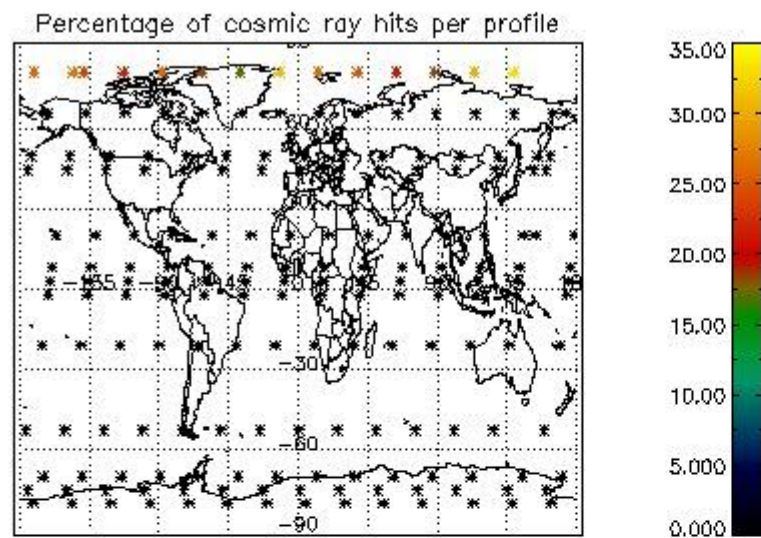


4.2 Plot quality information per product coming from level 1b processing (world map)

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

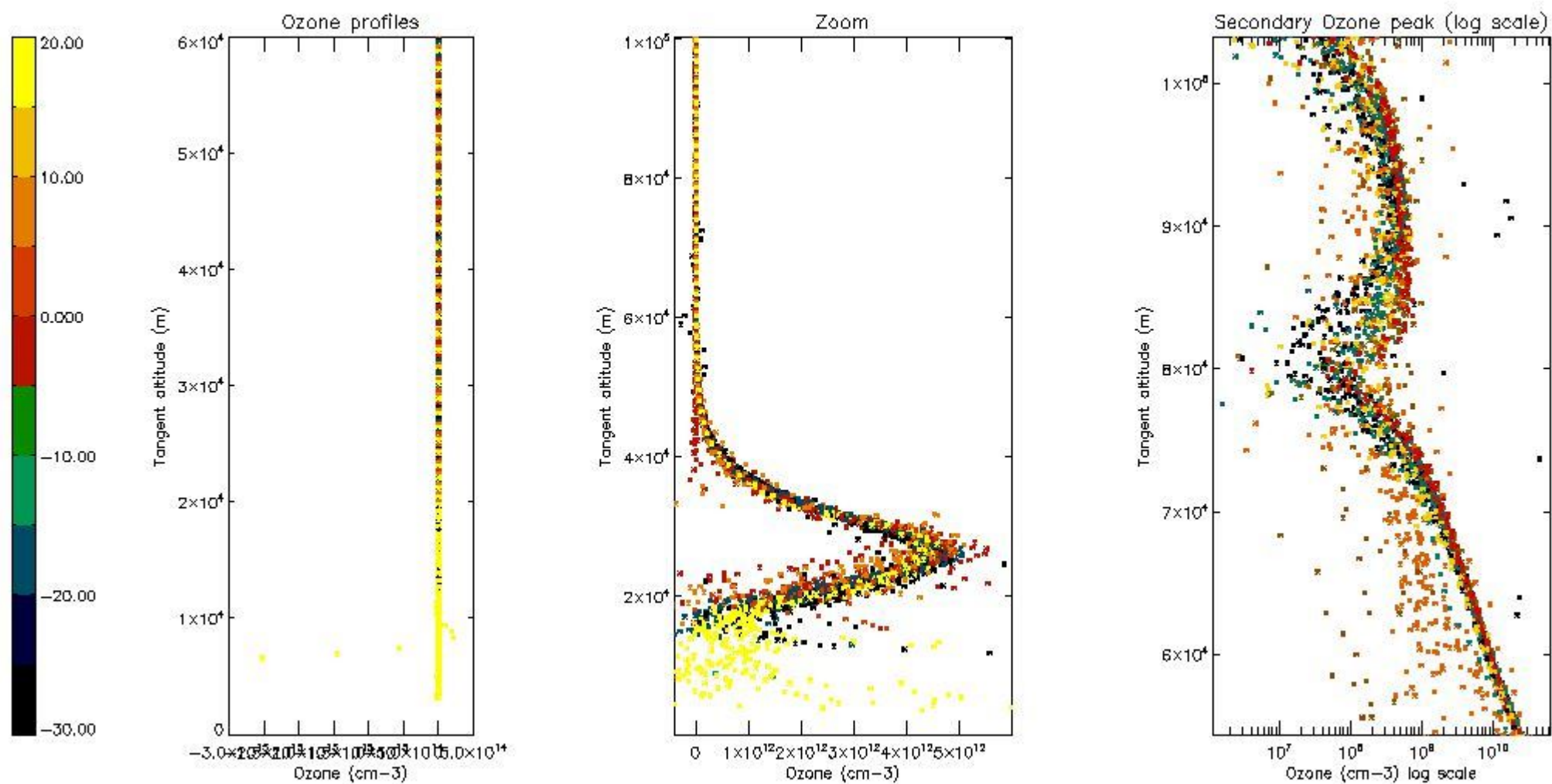
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	13

STD < 10	11
STD < 5	8

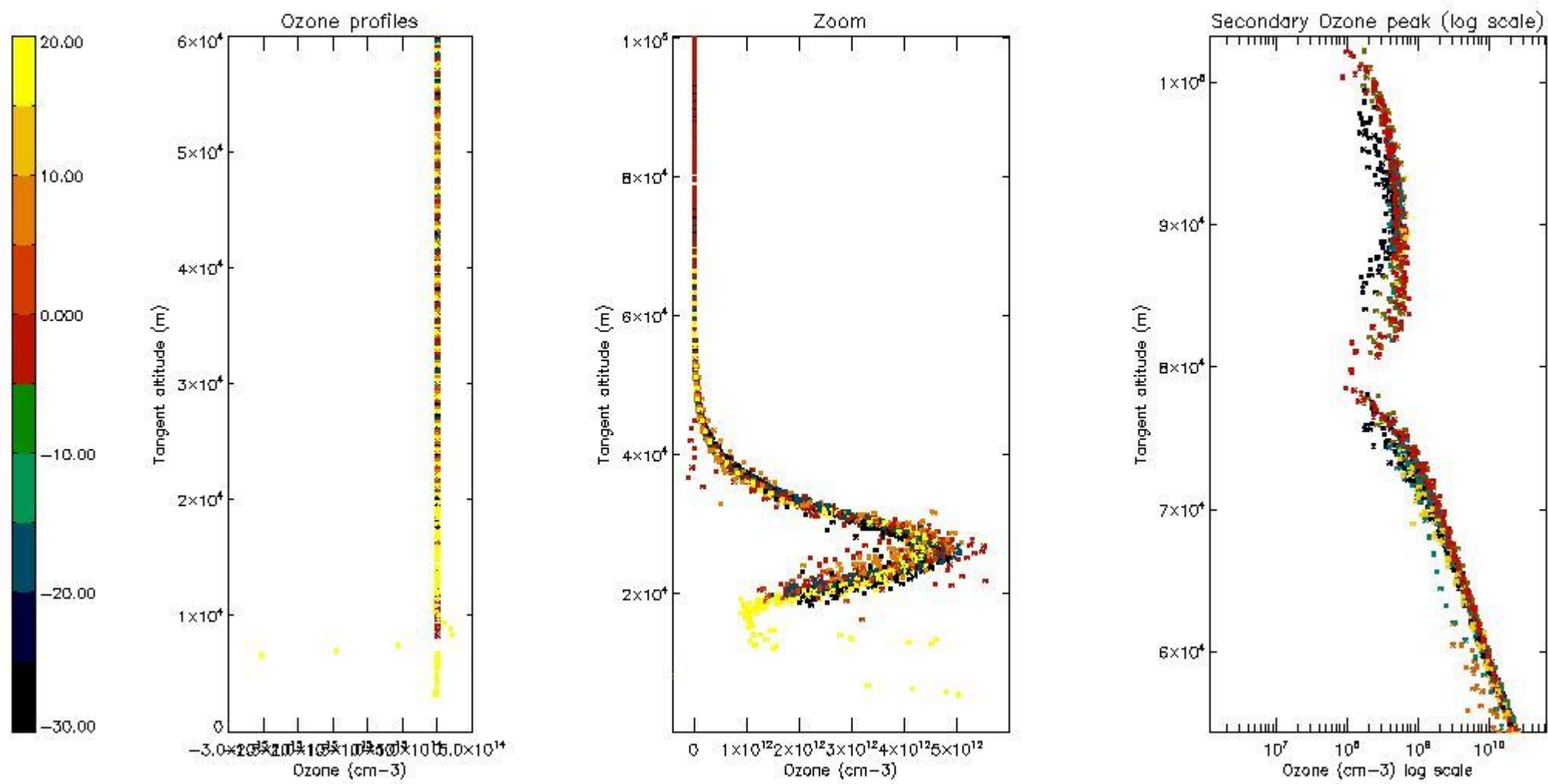
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



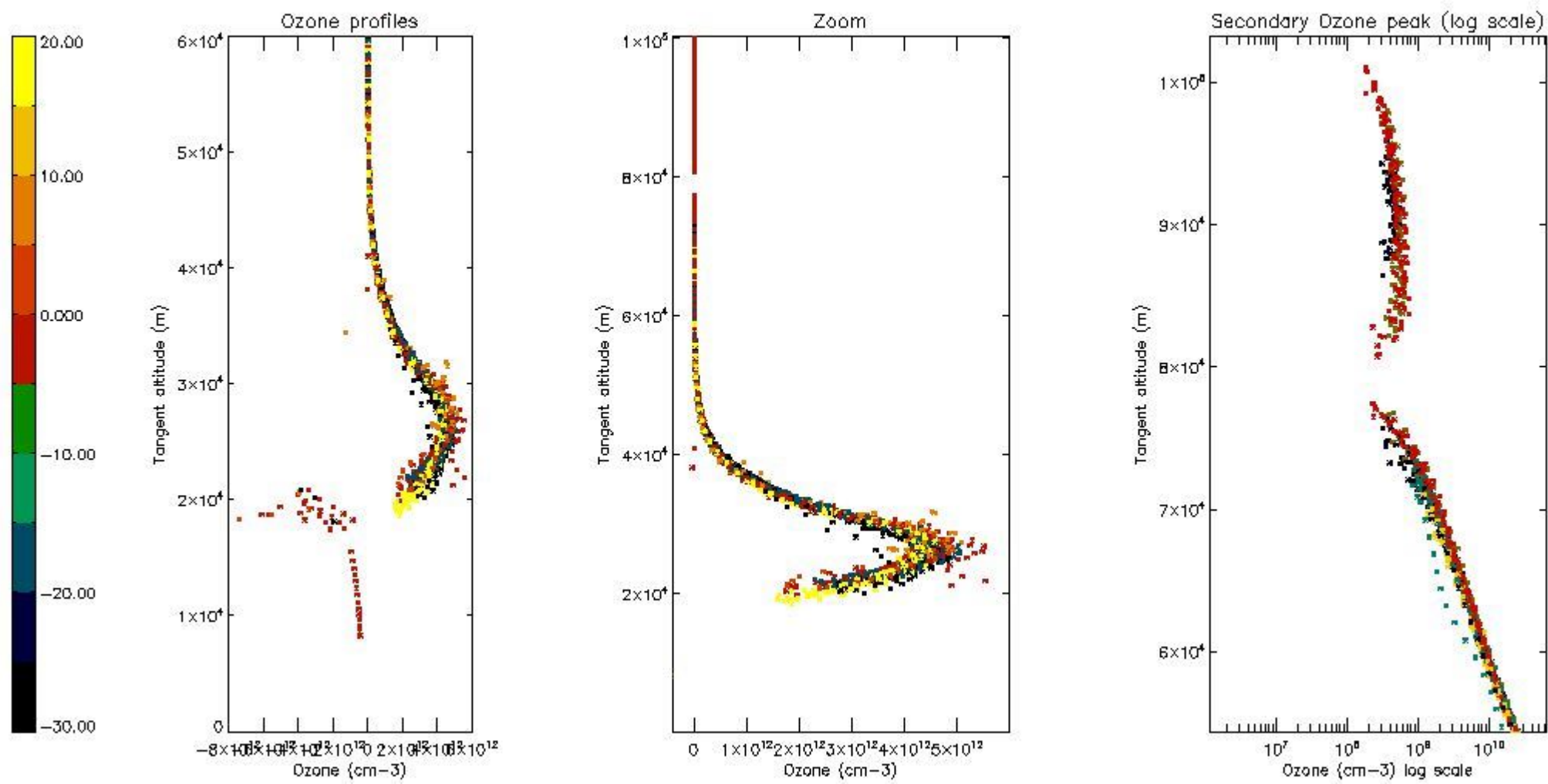
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



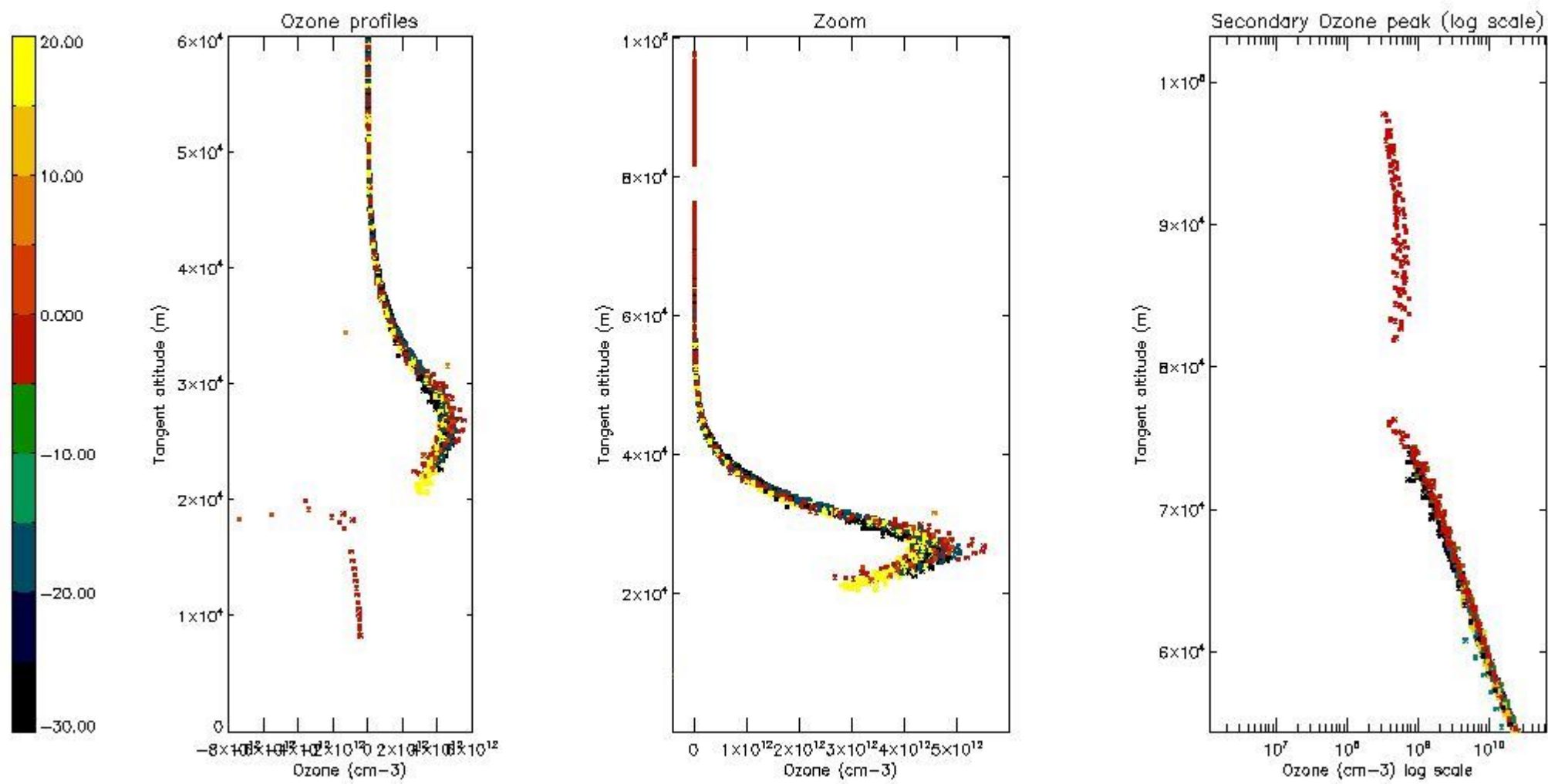
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



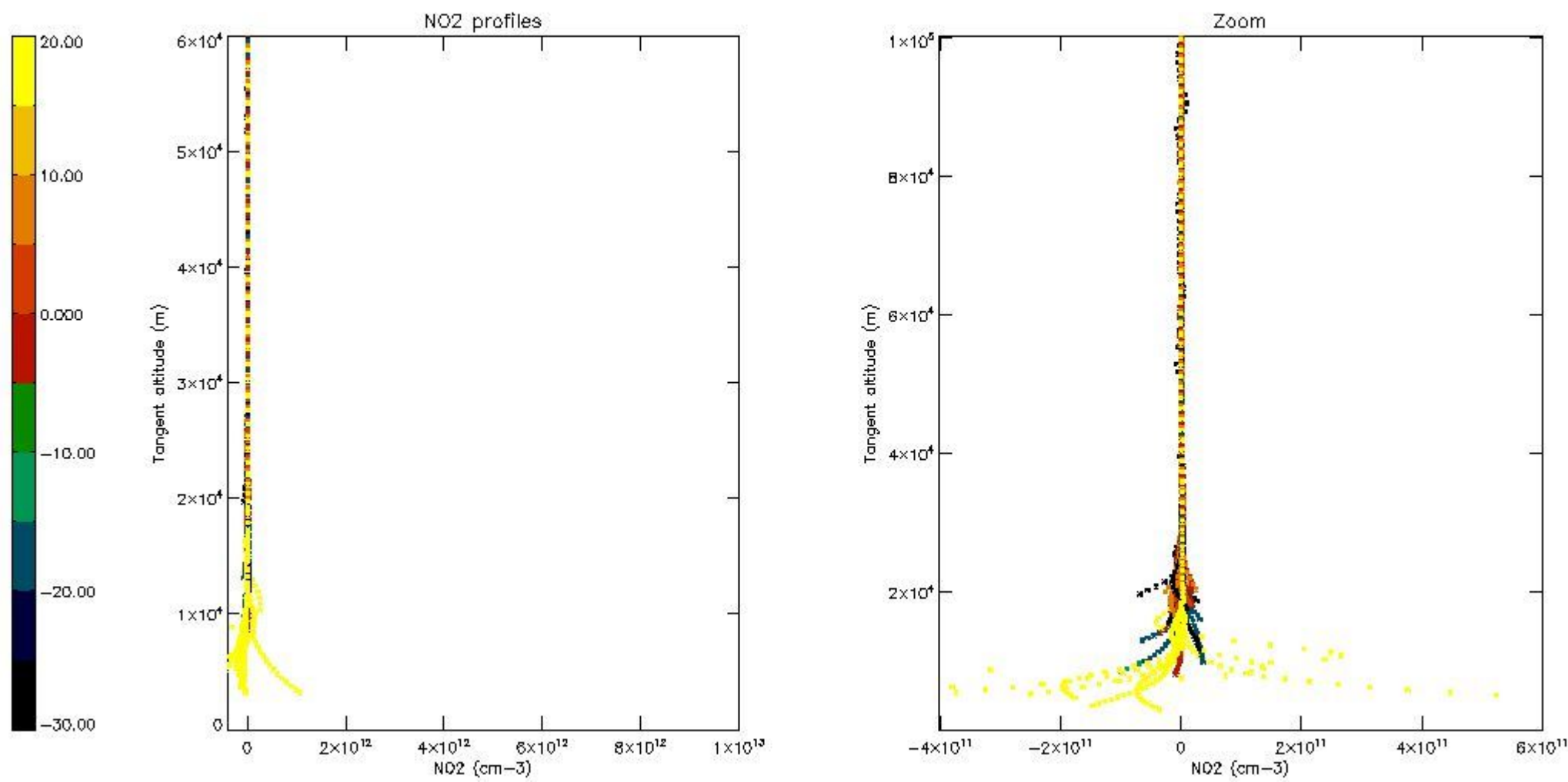
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



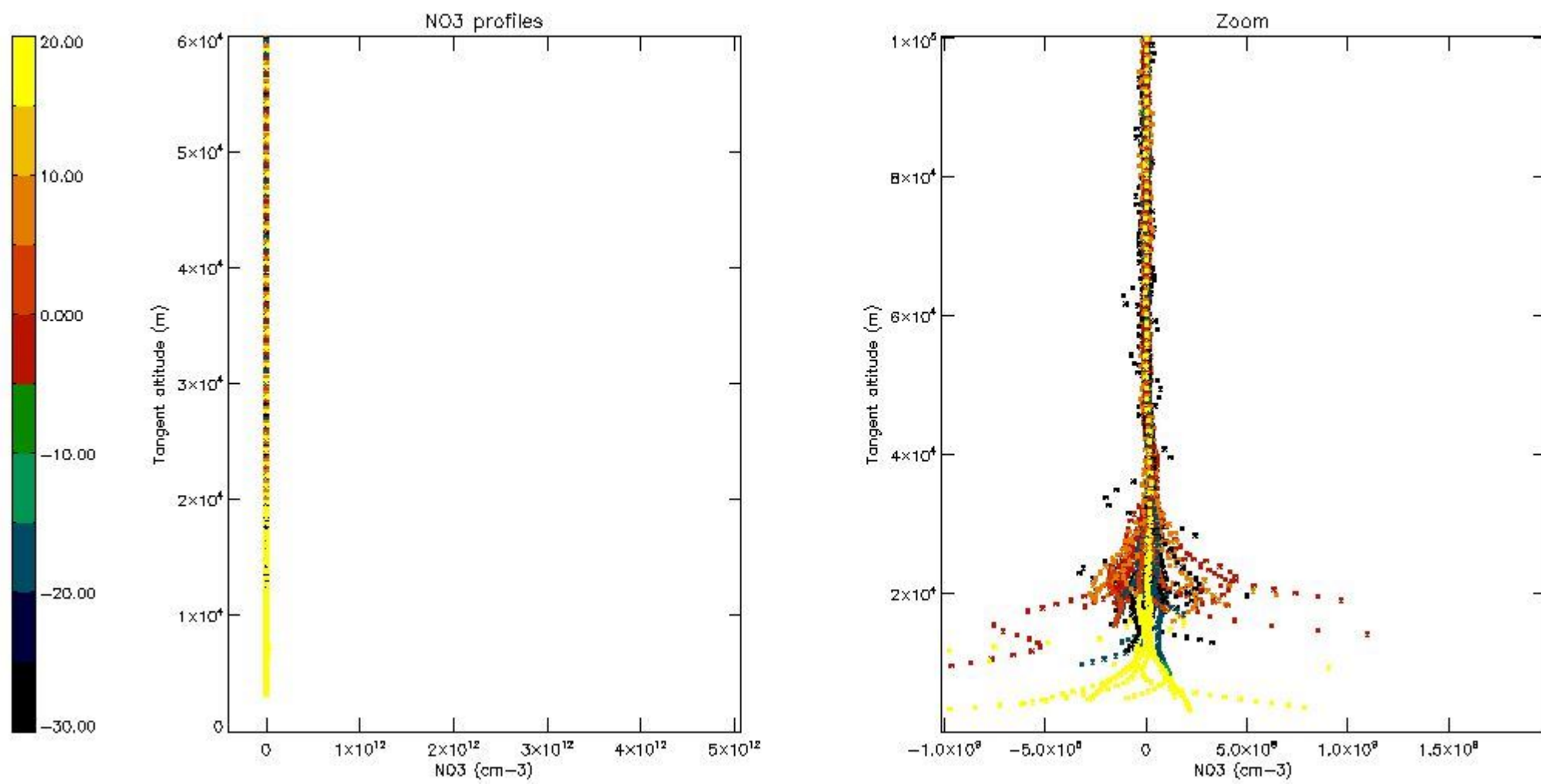
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



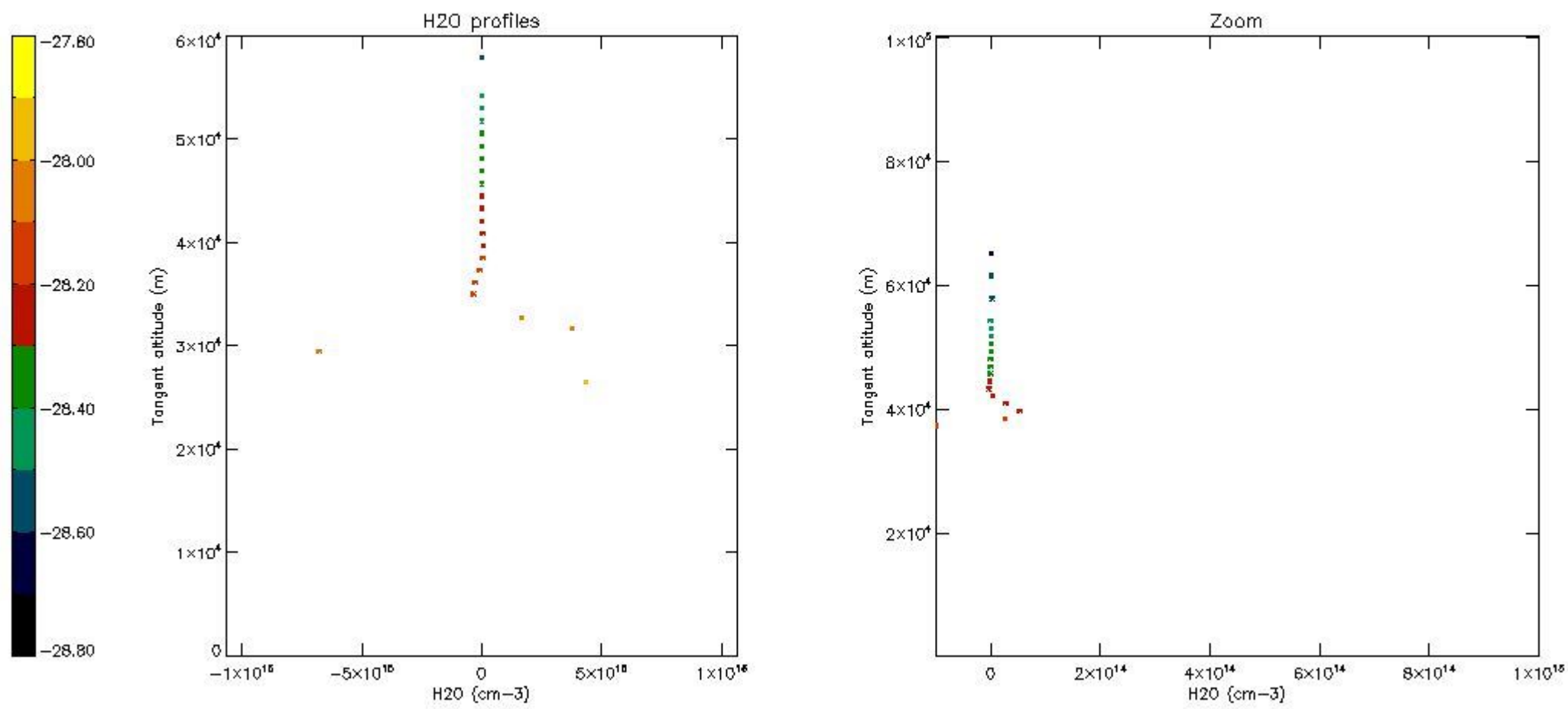
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

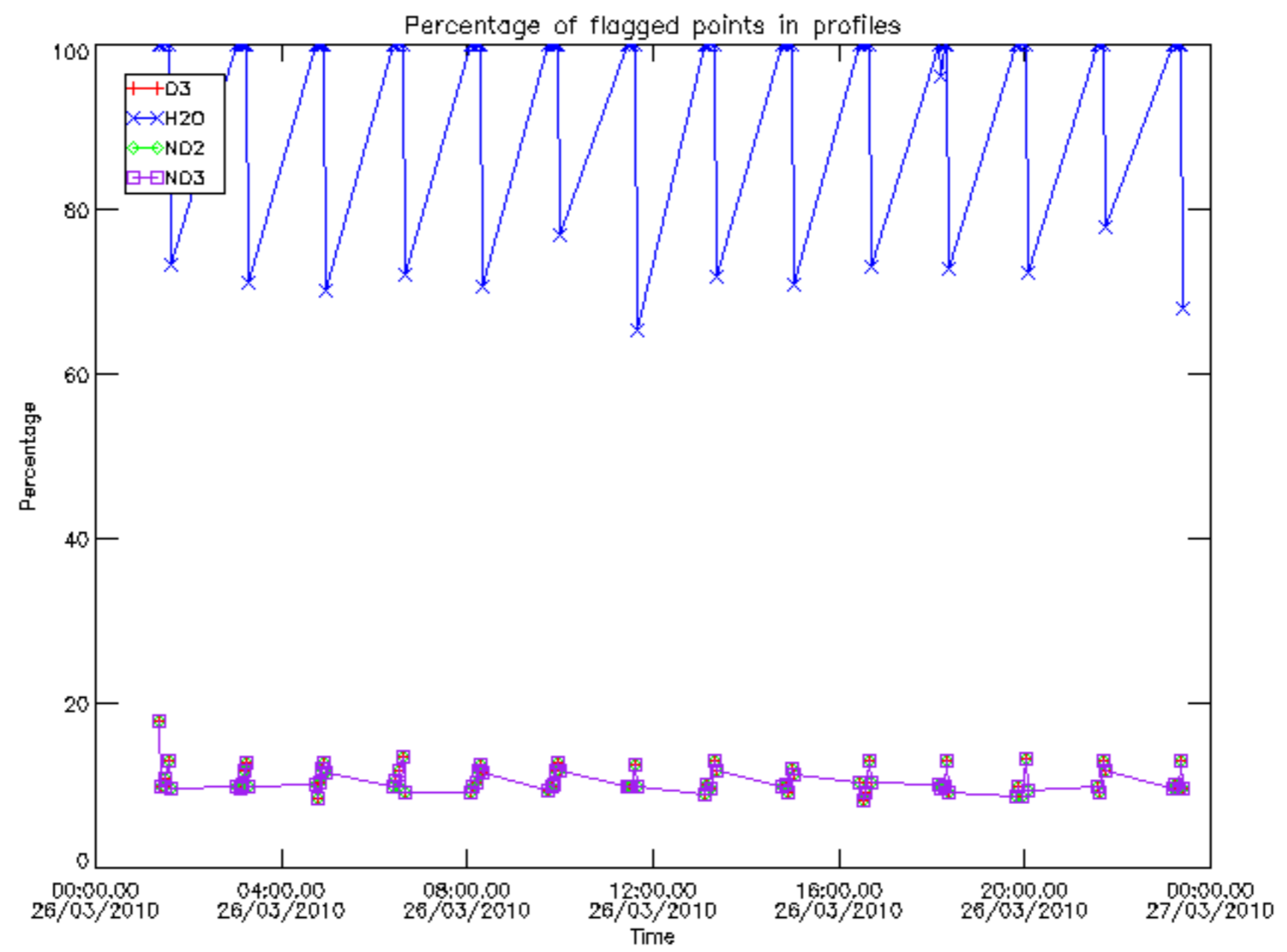
The colorbar represents the latitude.



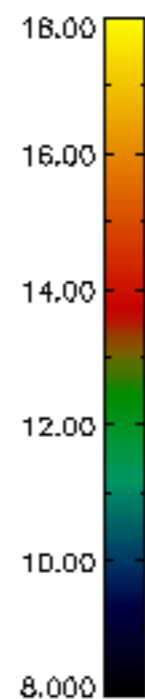
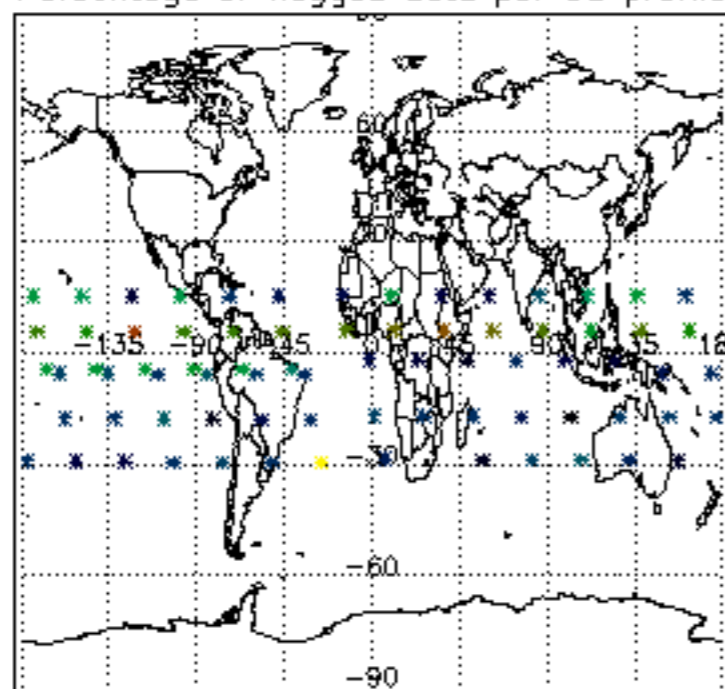
6. Auxiliary Data Files used for the production reported in section 2

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.

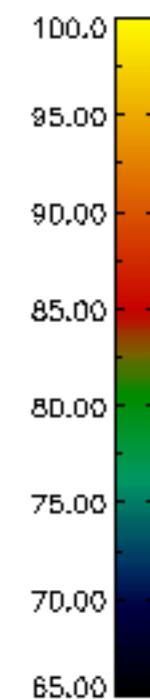
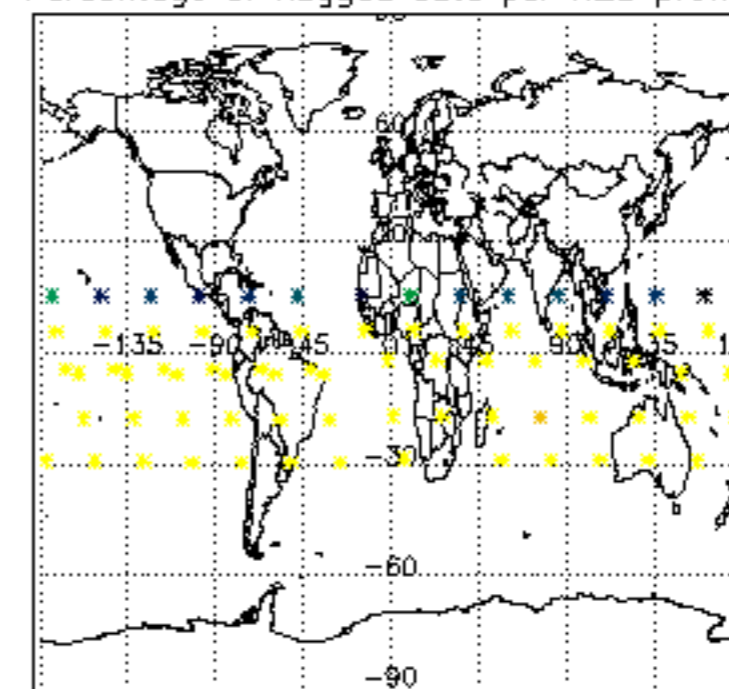
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-MAR-2010 00:00:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-MAR-2010 00:00:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-MAR-2010 00:00:18



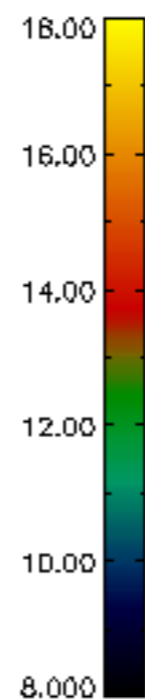
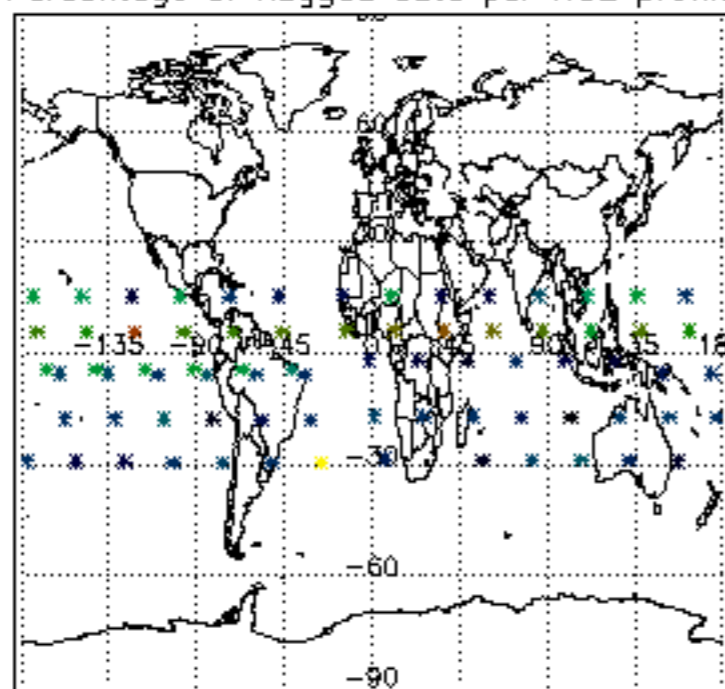
Percentage of flagged data per D3 profile



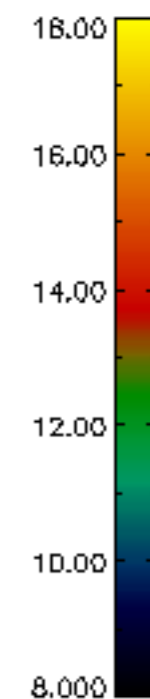
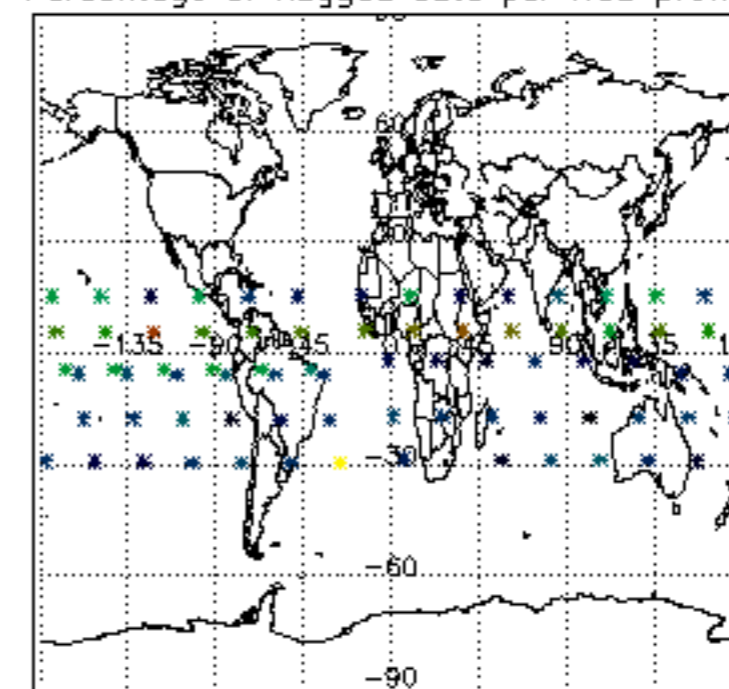
Percentage of flagged data per H2O profile

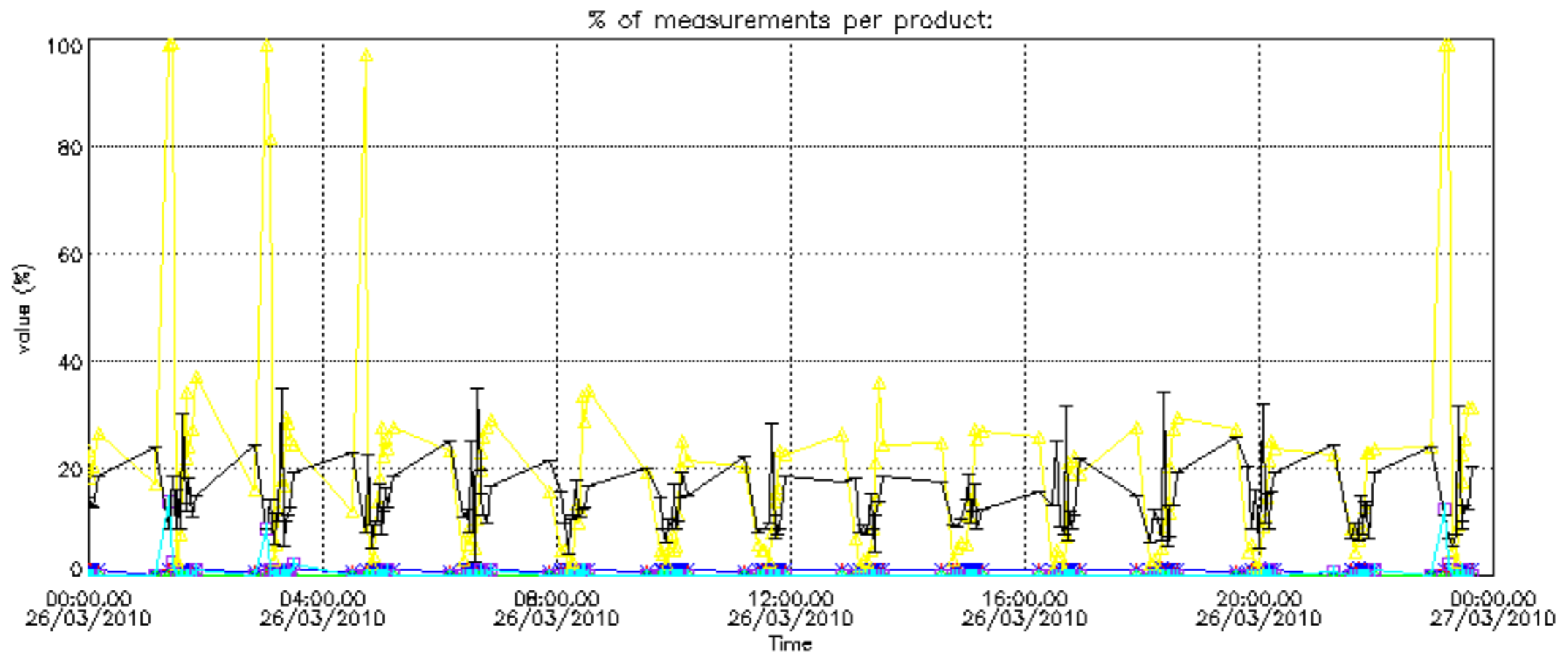


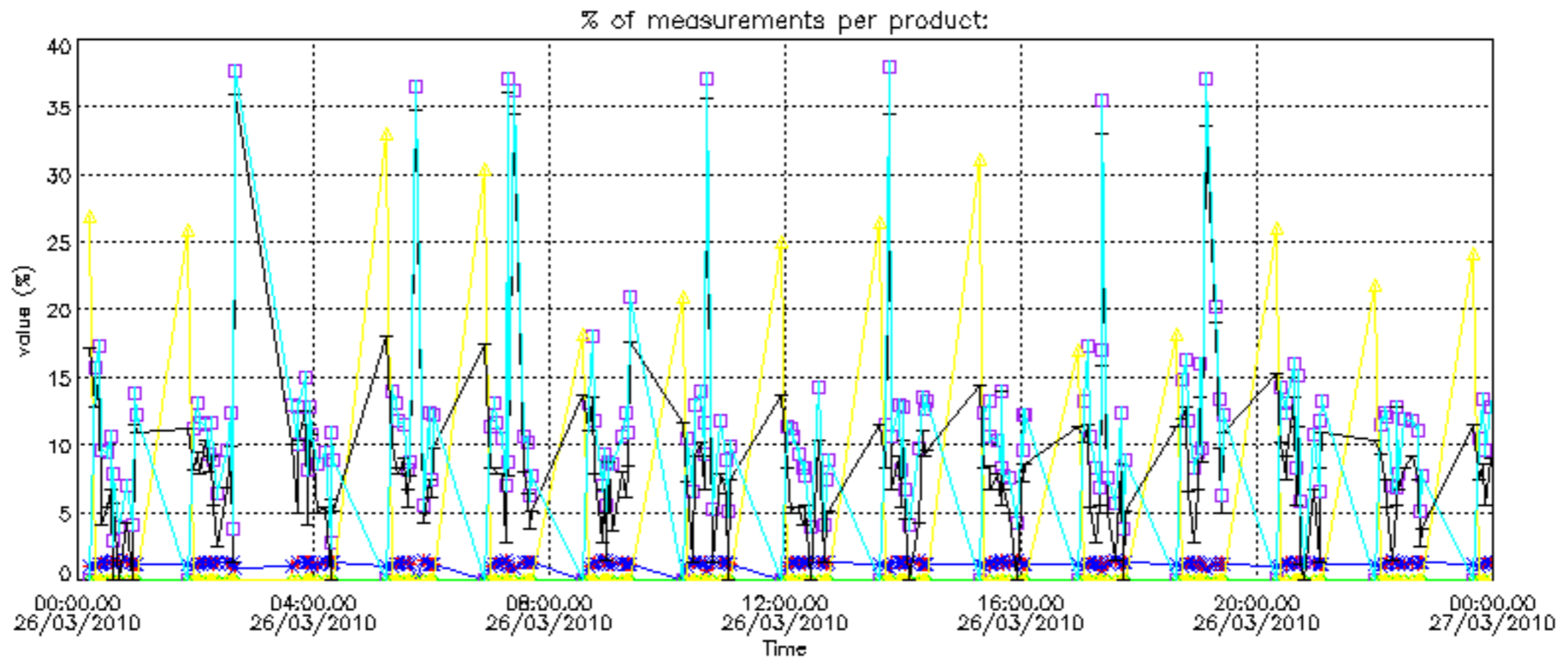
Percentage of flagged data per NO2 profile



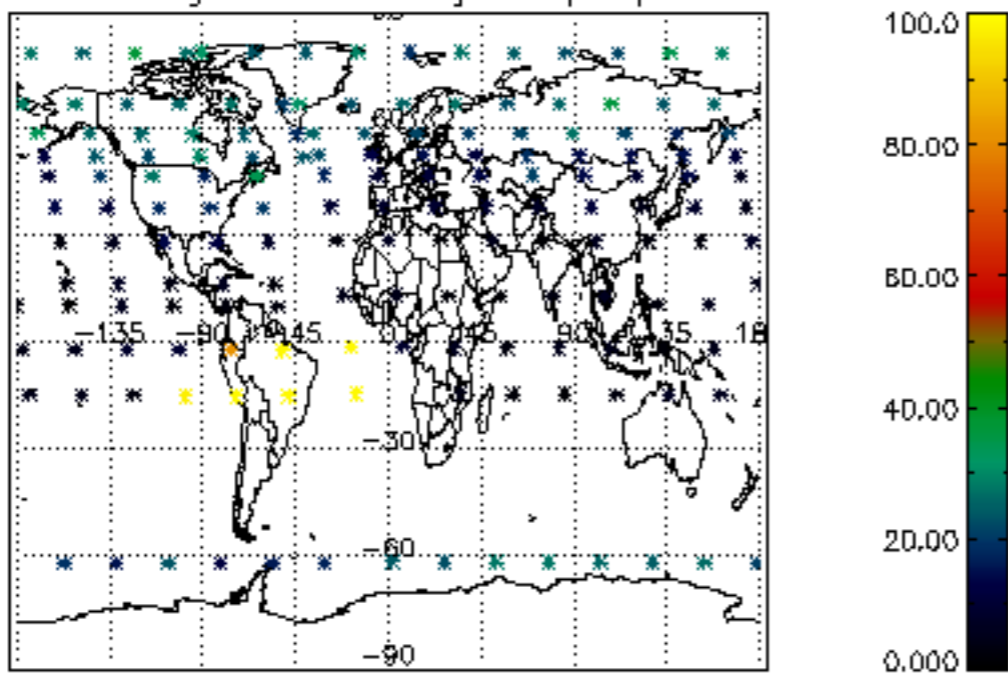
Percentage of flagged data per NO3 profile



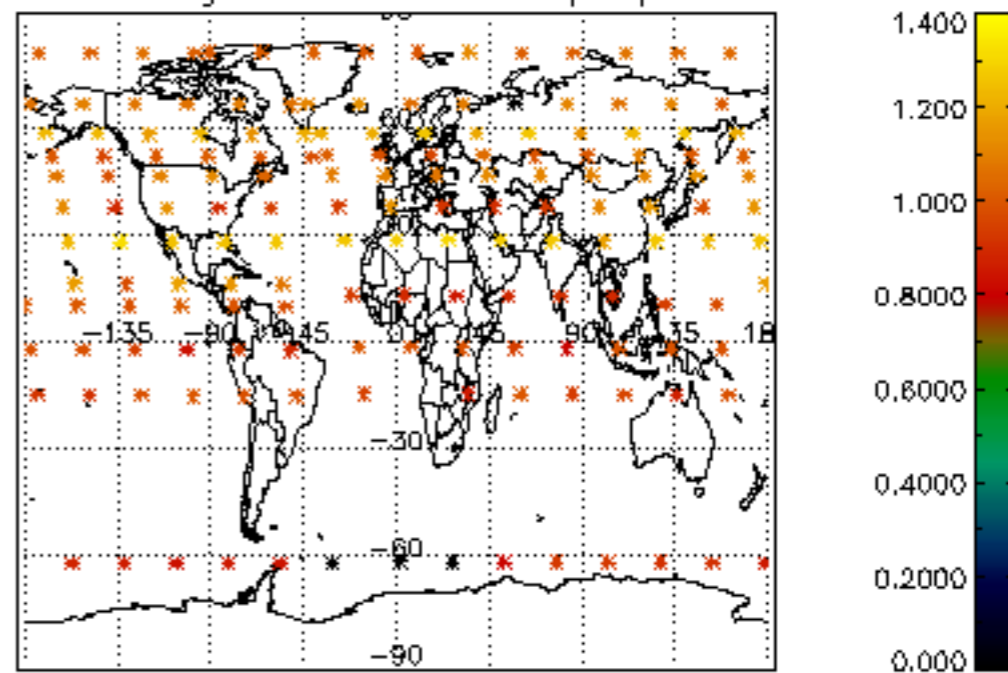




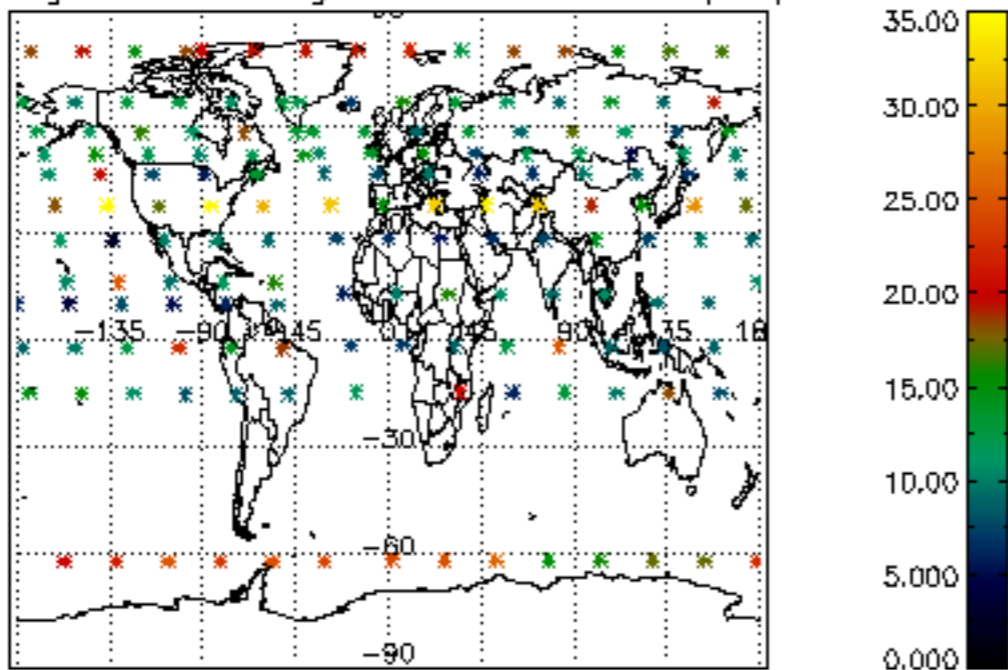
Percentage of cosmic ray hits per profile



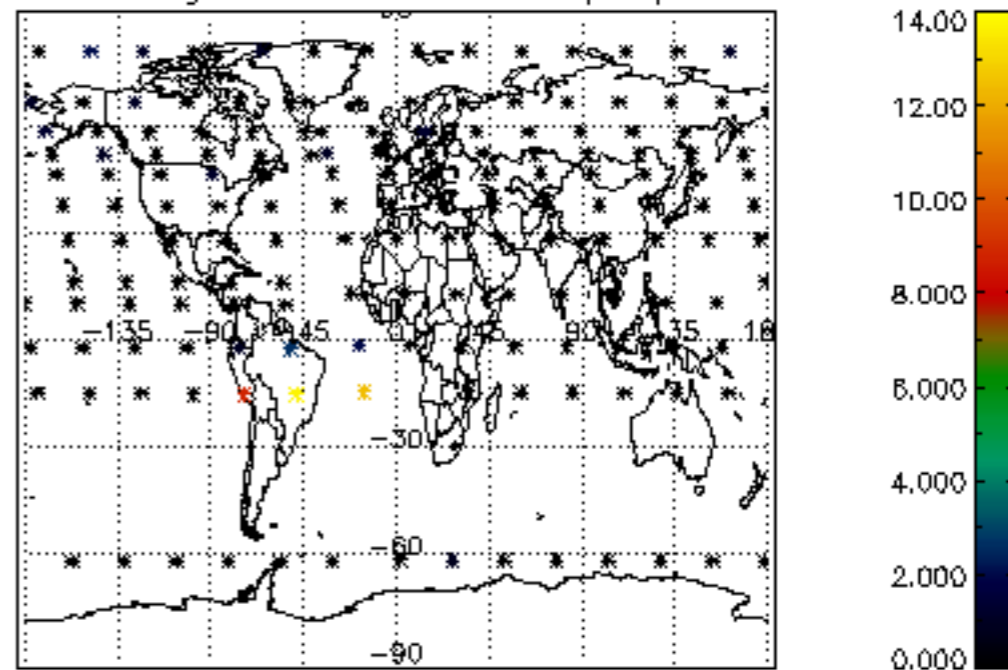
Percentage of datation errors per profile



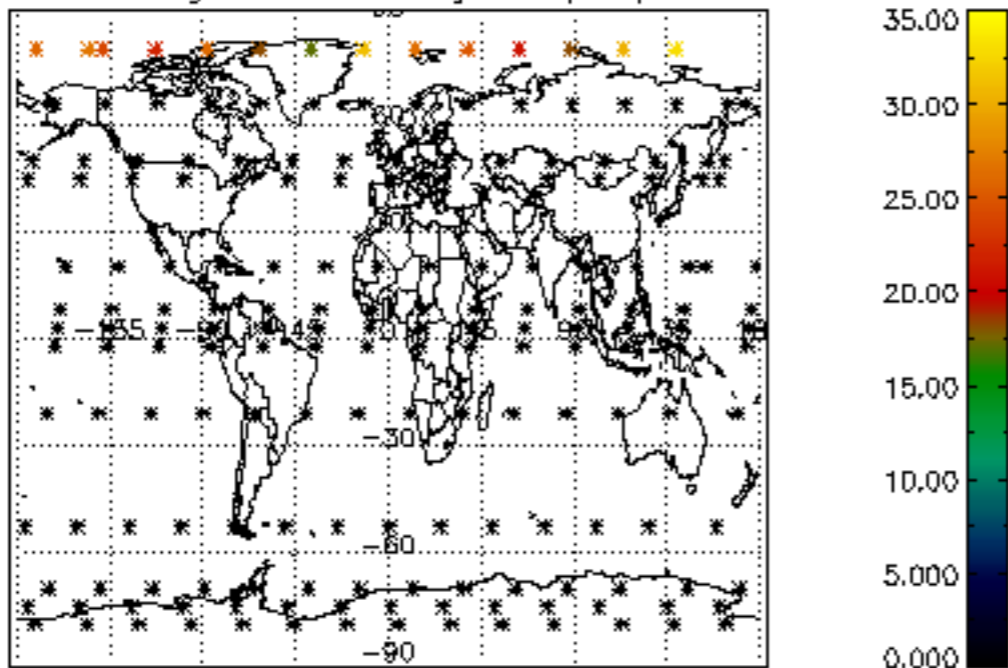
Percentage of star falling outside central band per profile



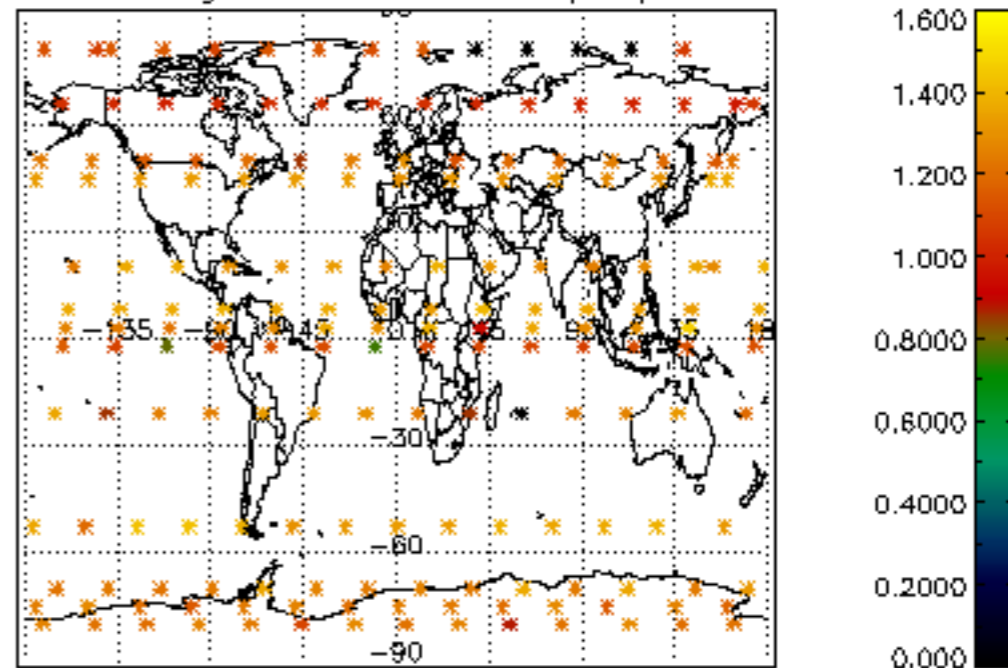
Percentage of saturation errors per profile



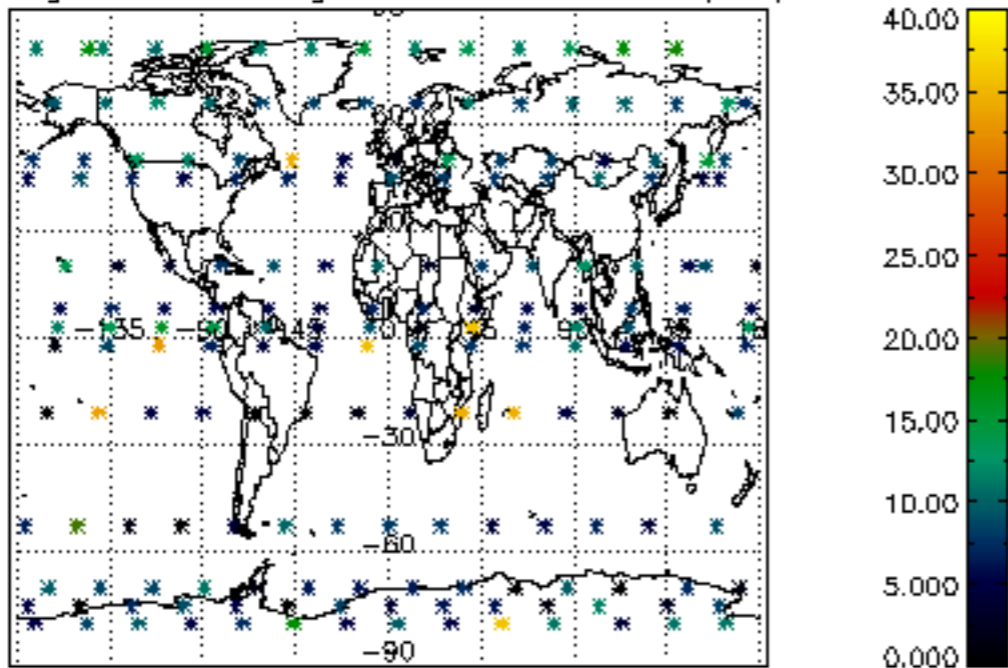
Percentage of cosmic ray hits per profile



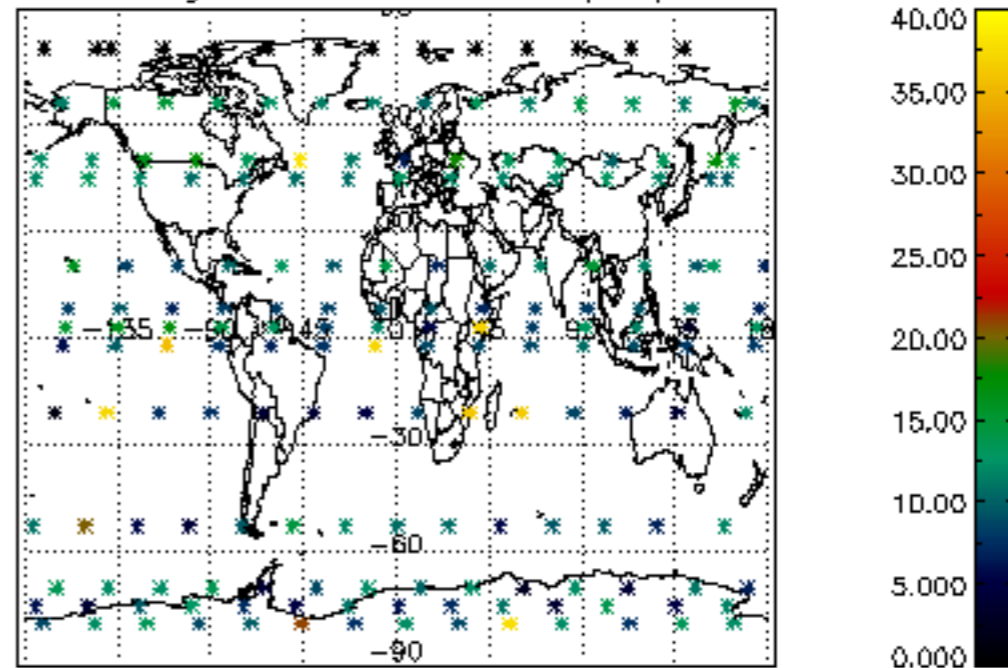
Percentage of datation errors per profile

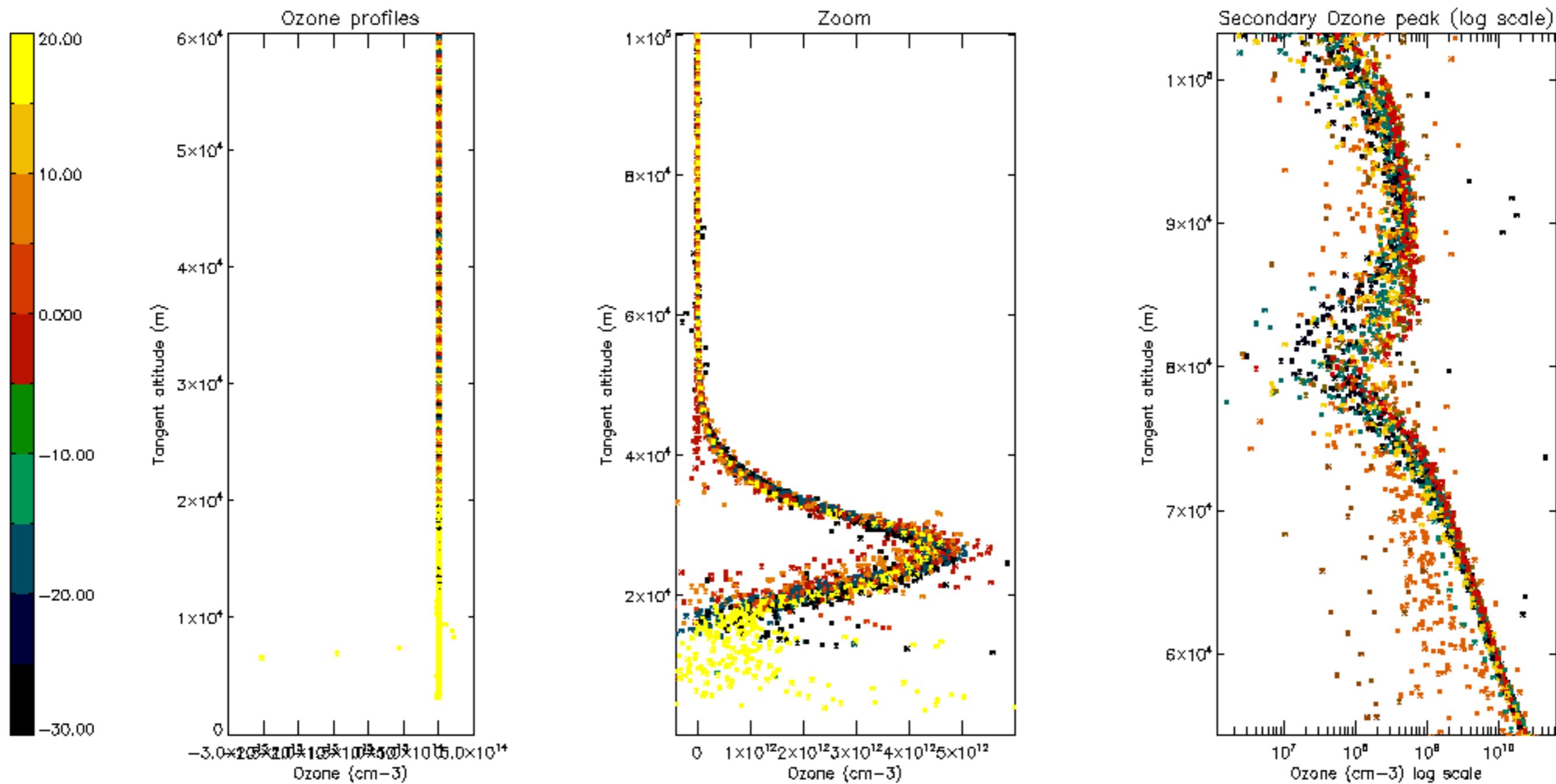


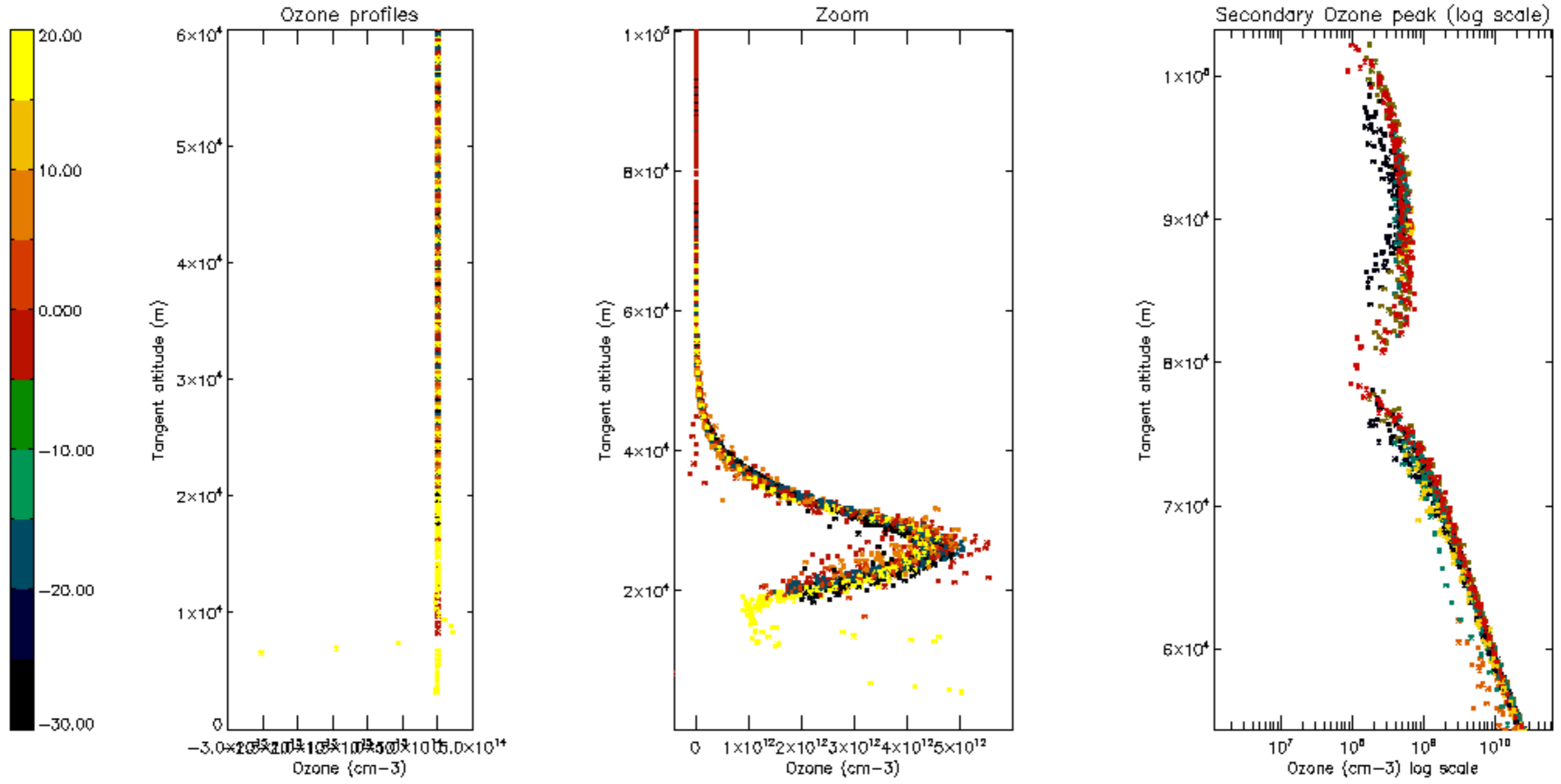
Percentage of star falling outside central band per profile

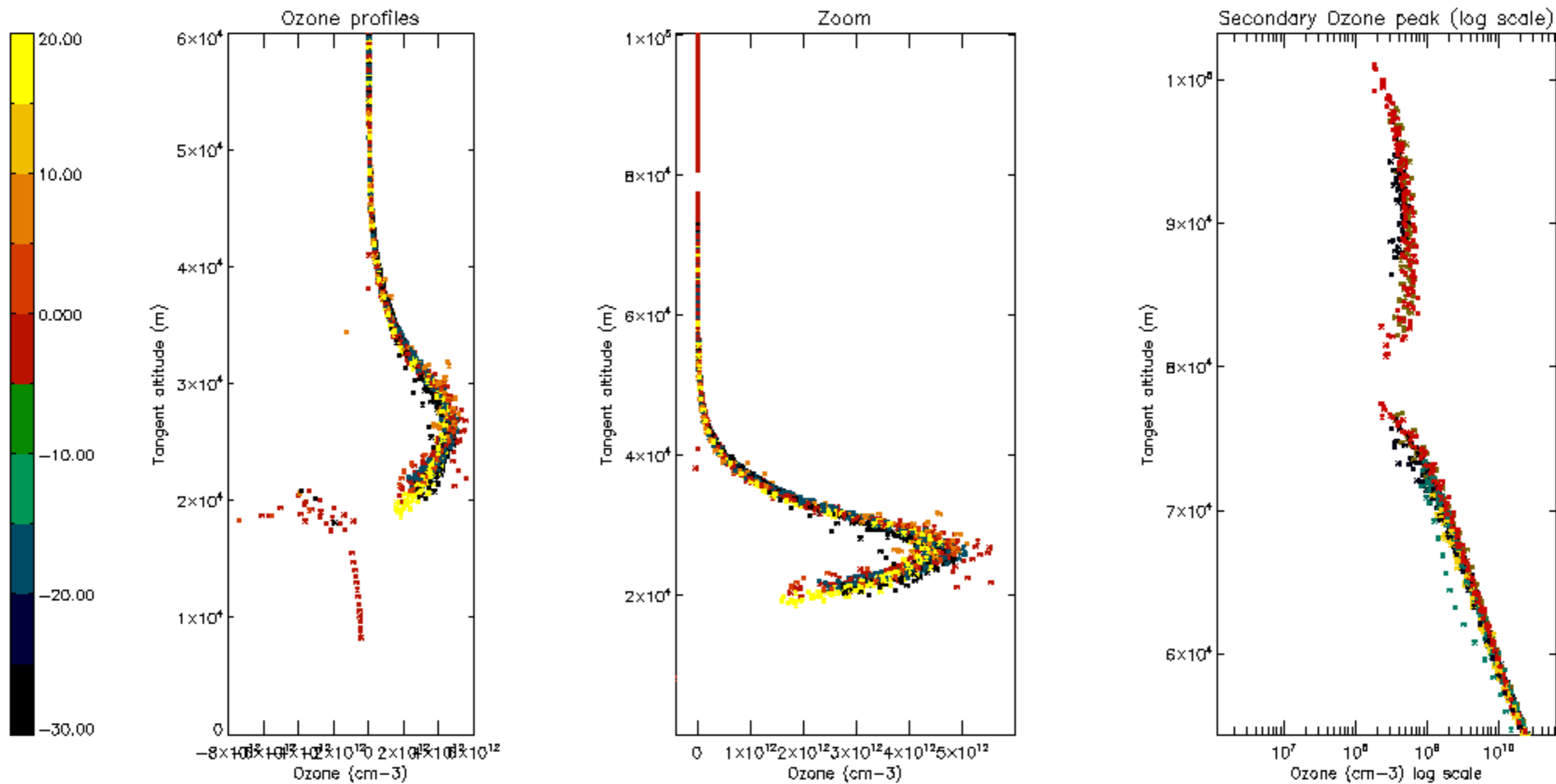


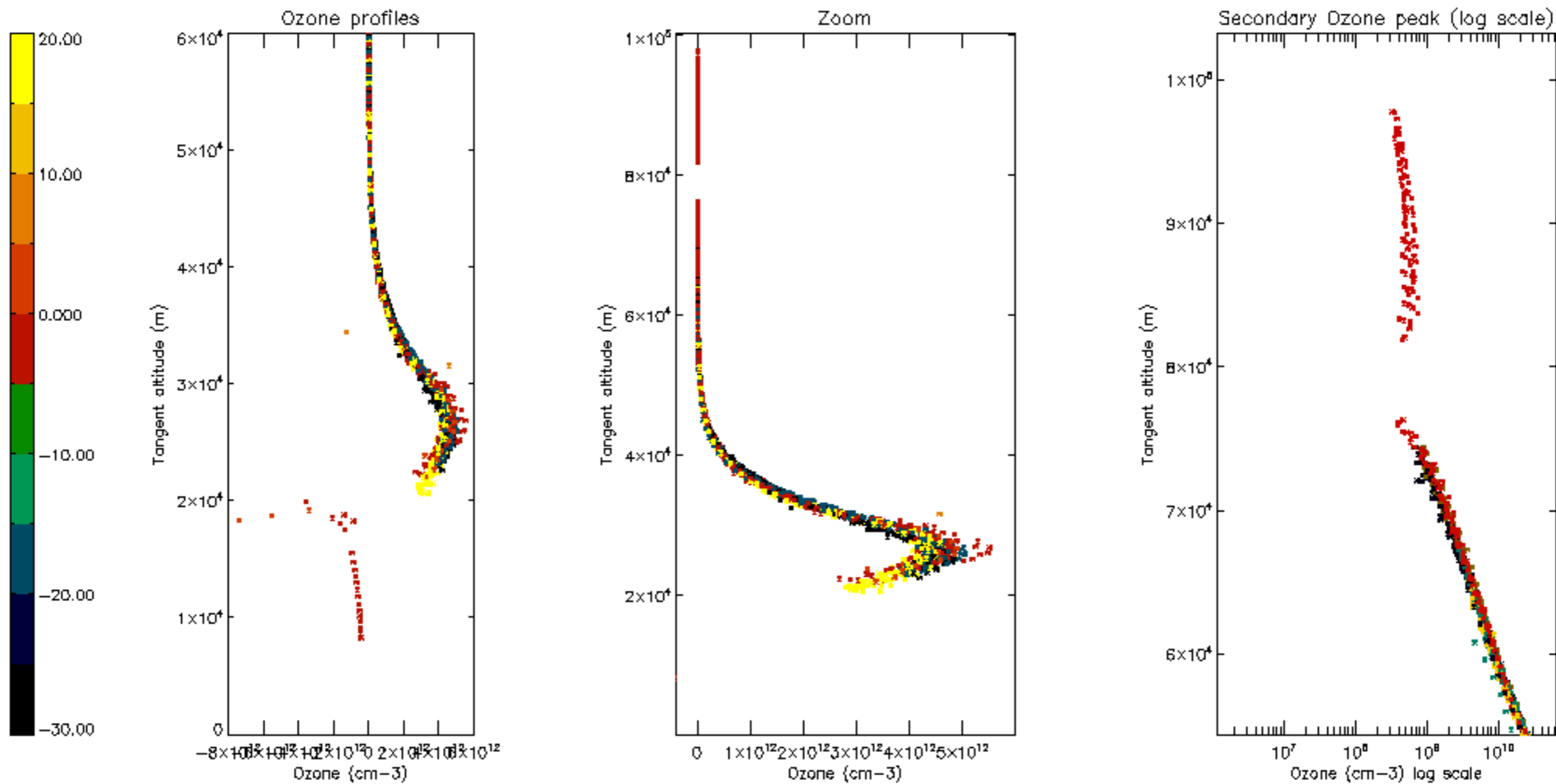
Percentage of saturation errors per profile

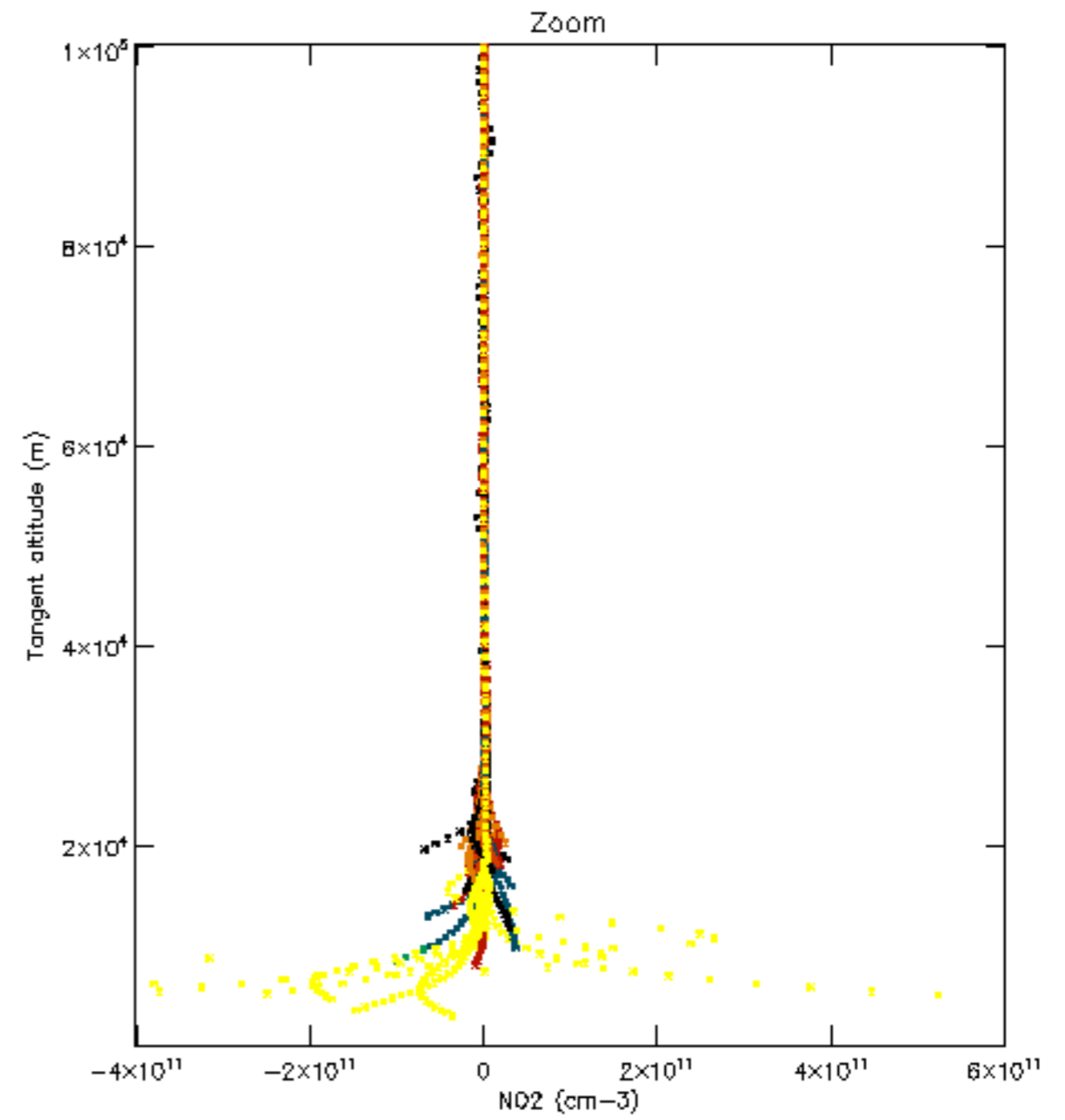
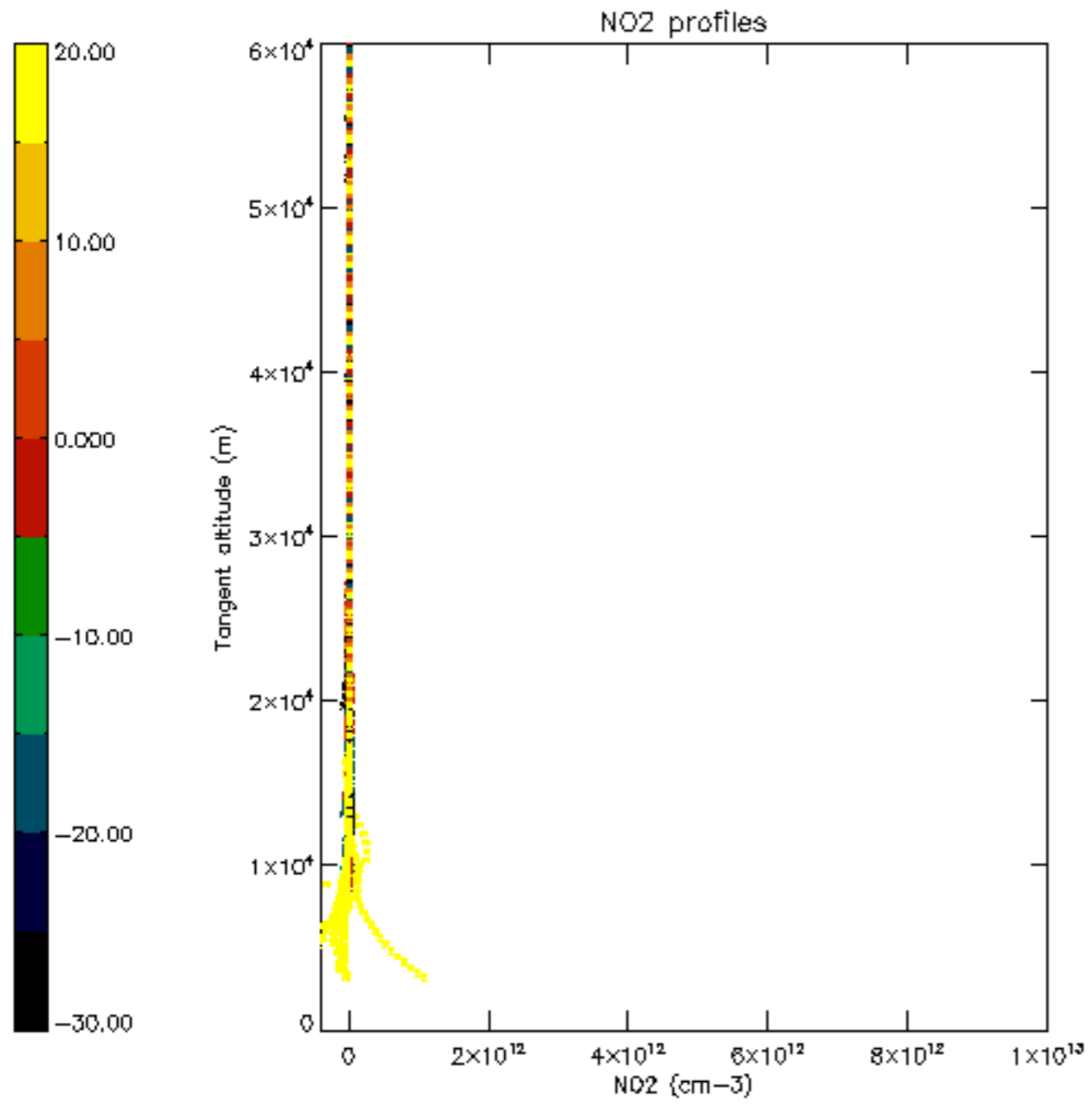


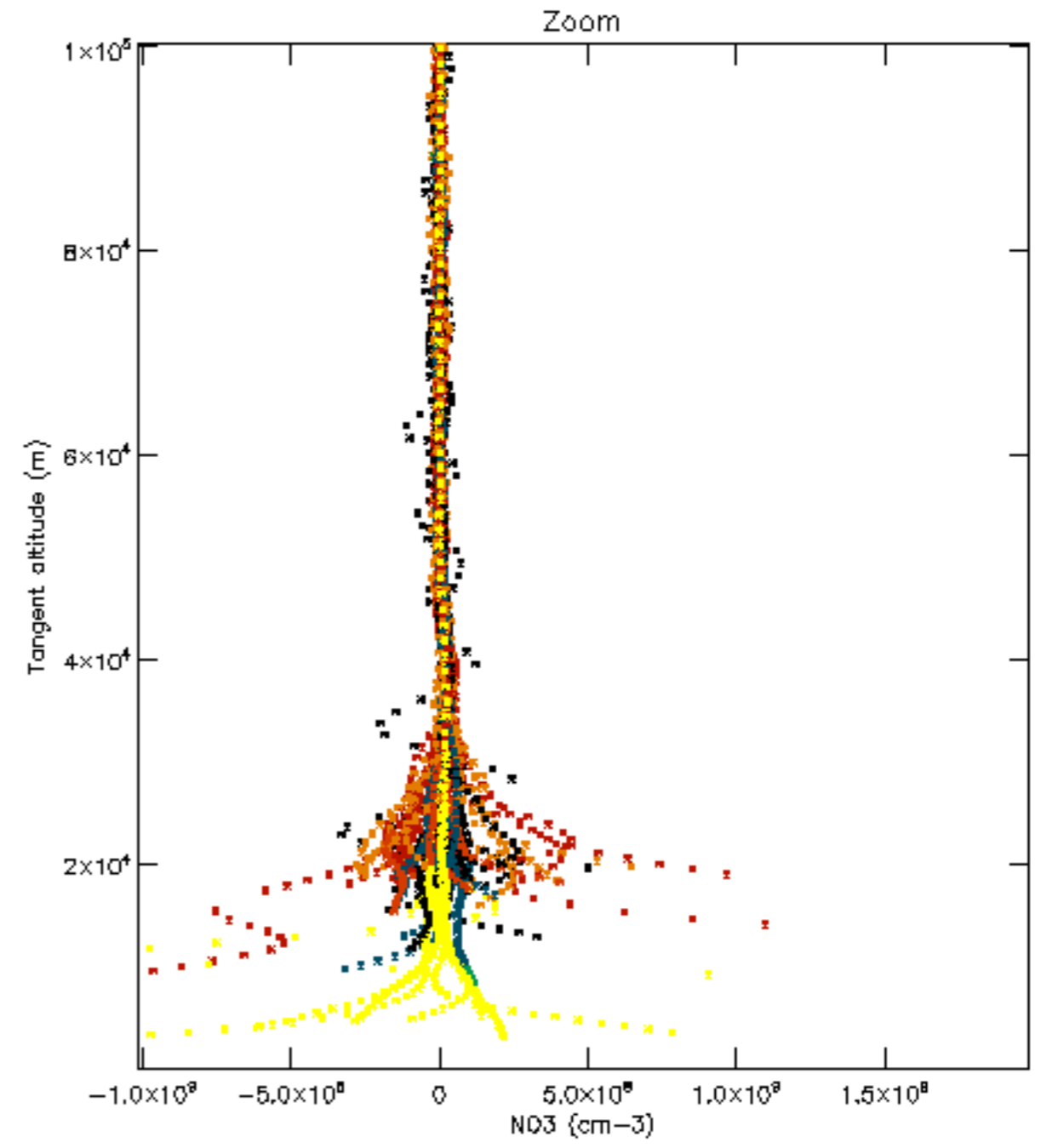
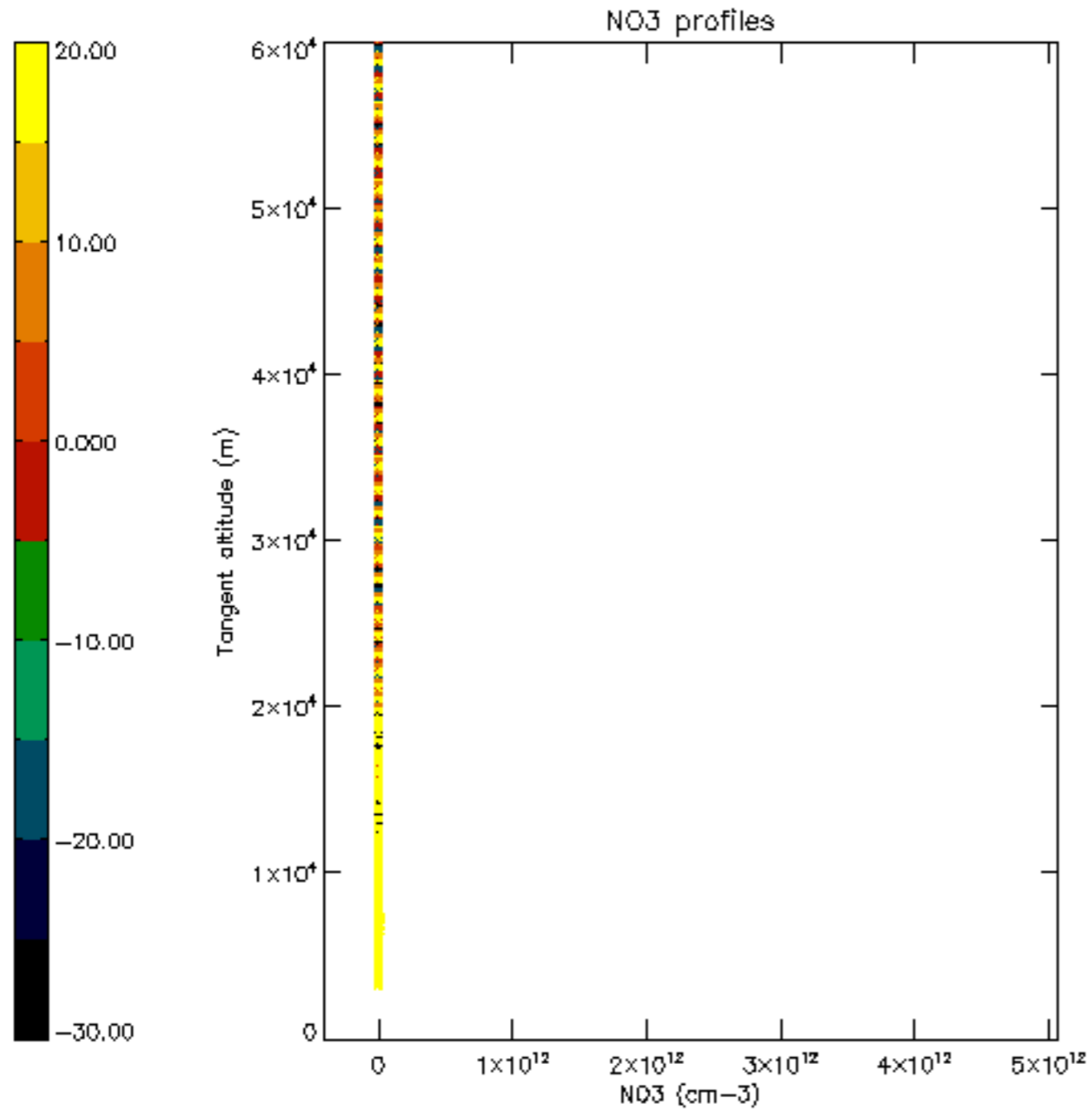


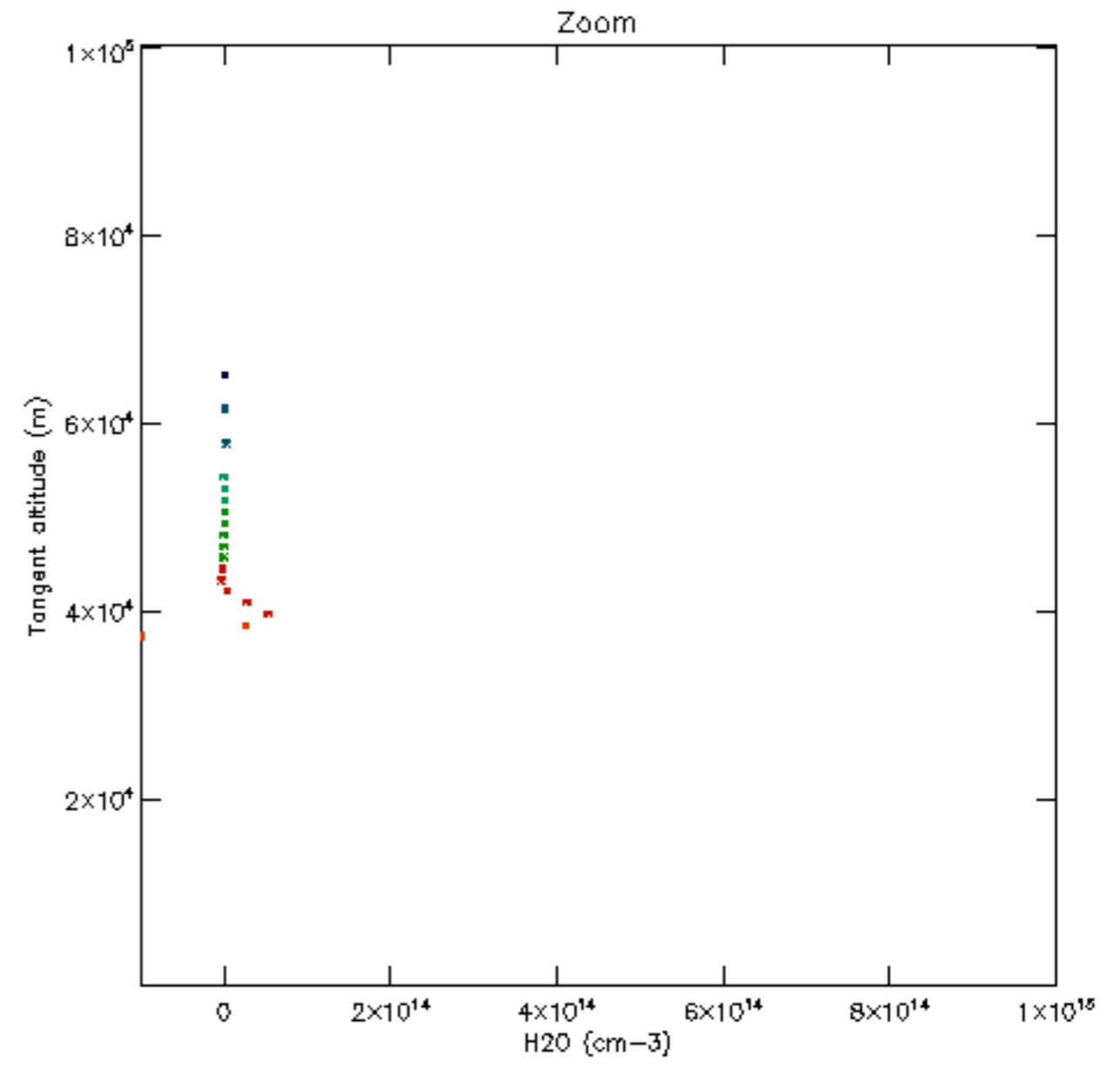
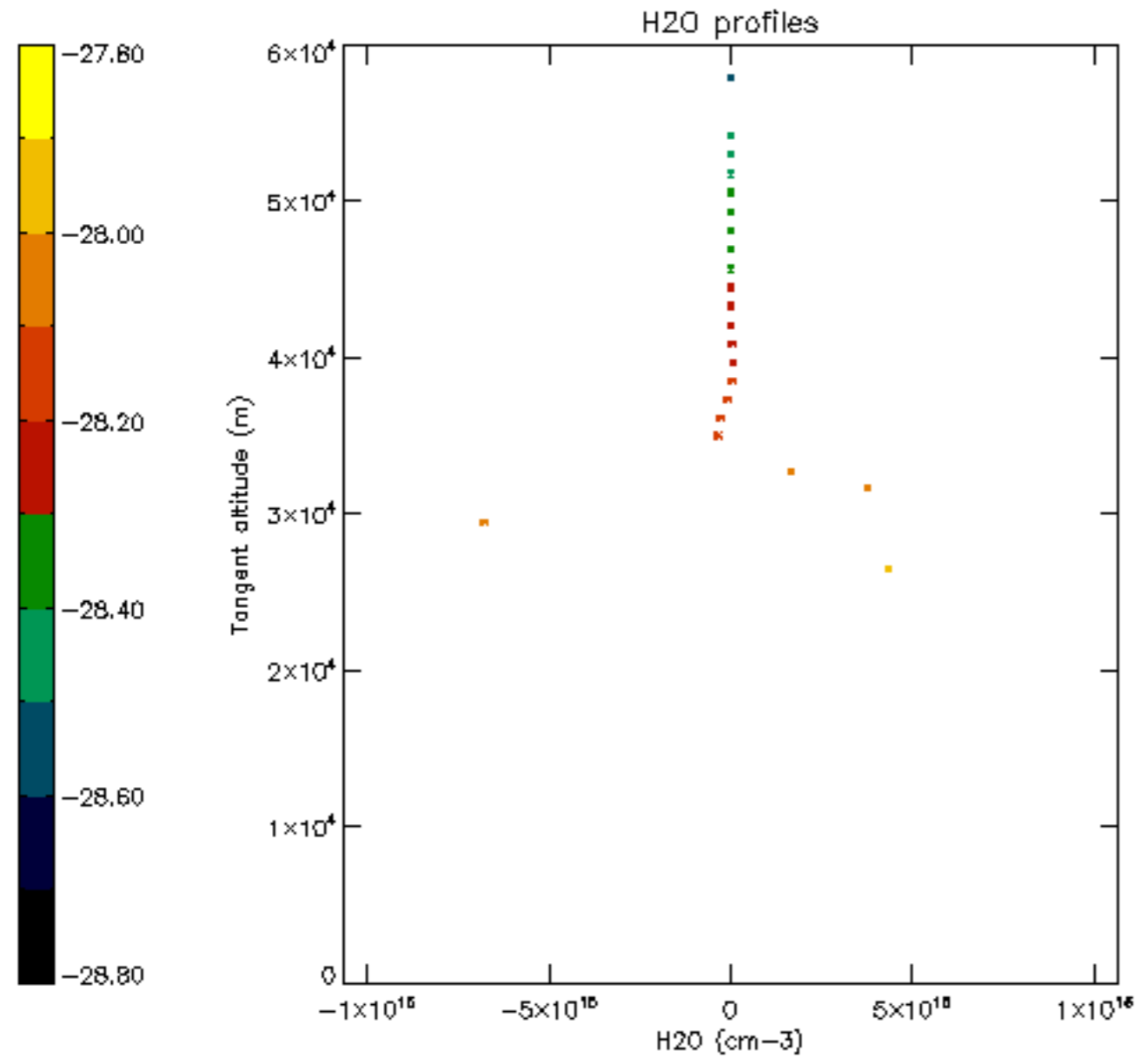


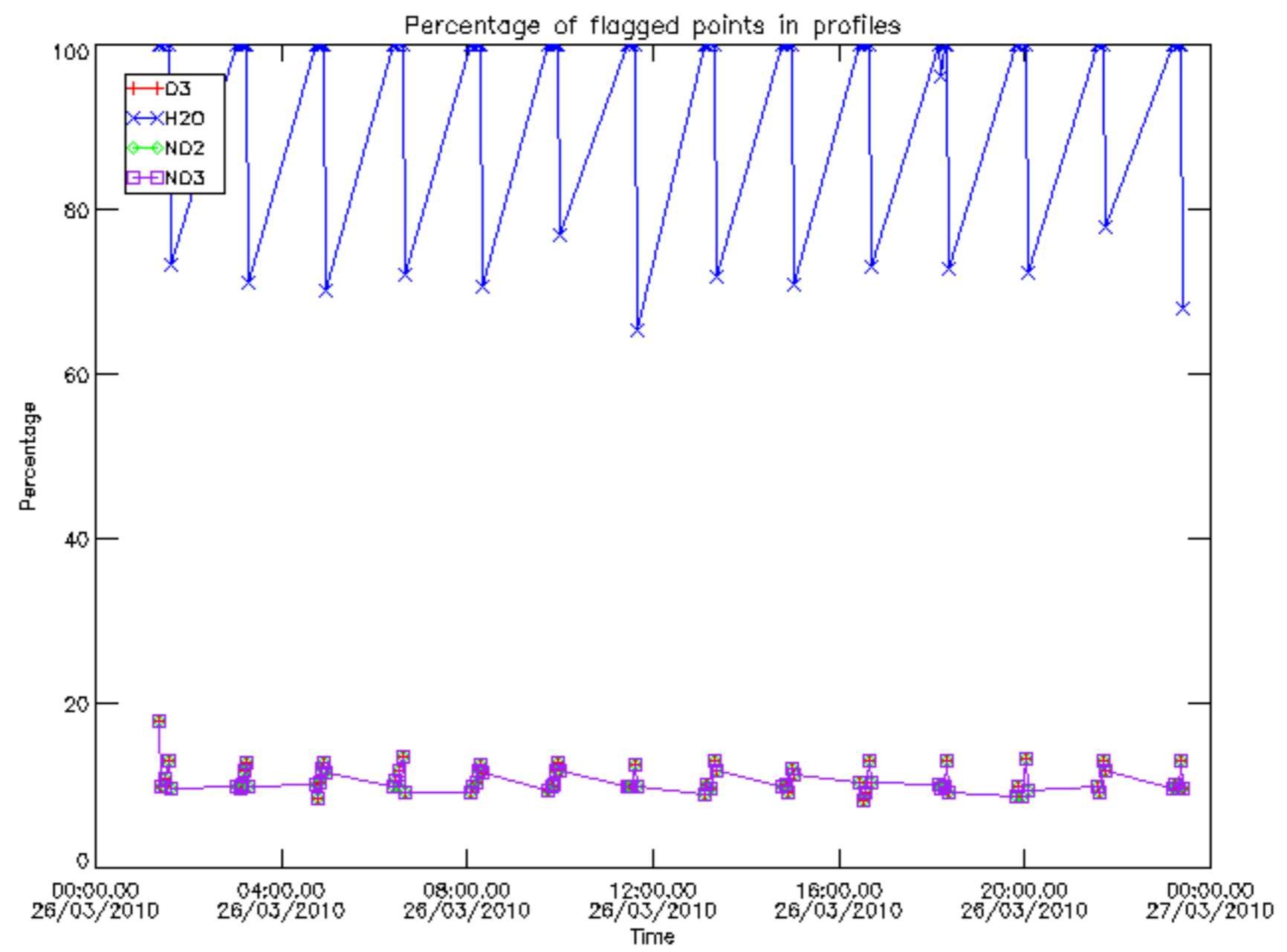




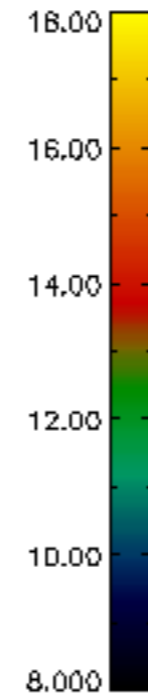
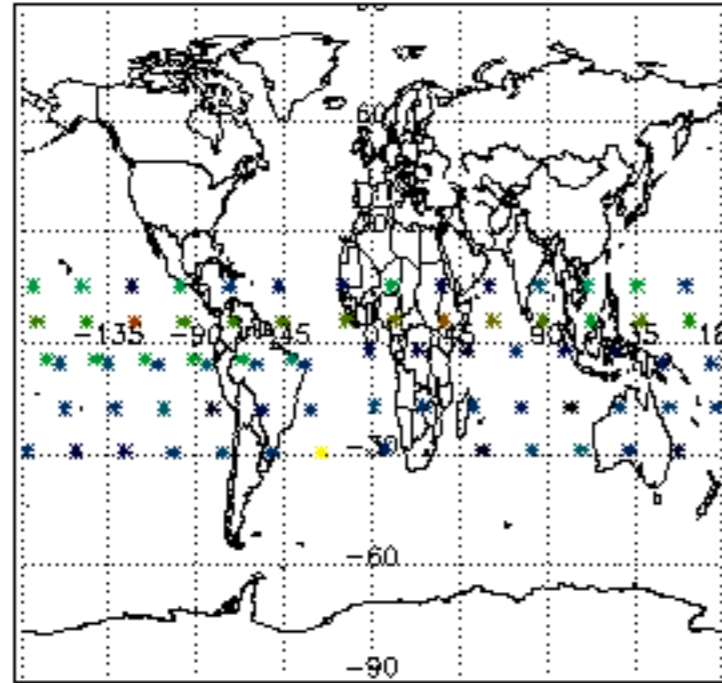




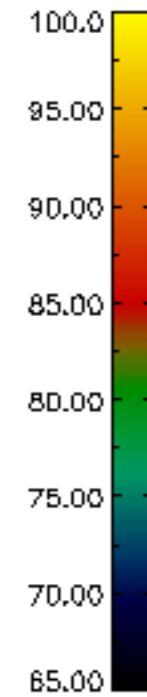
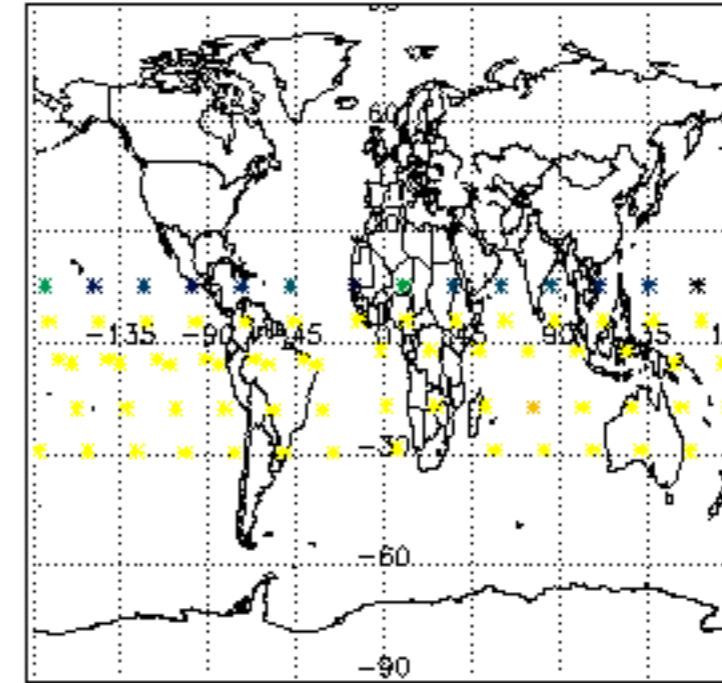




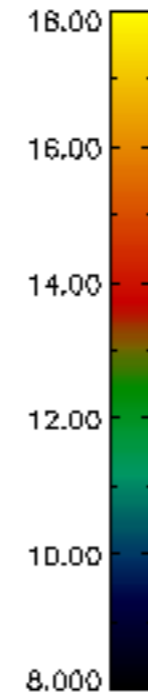
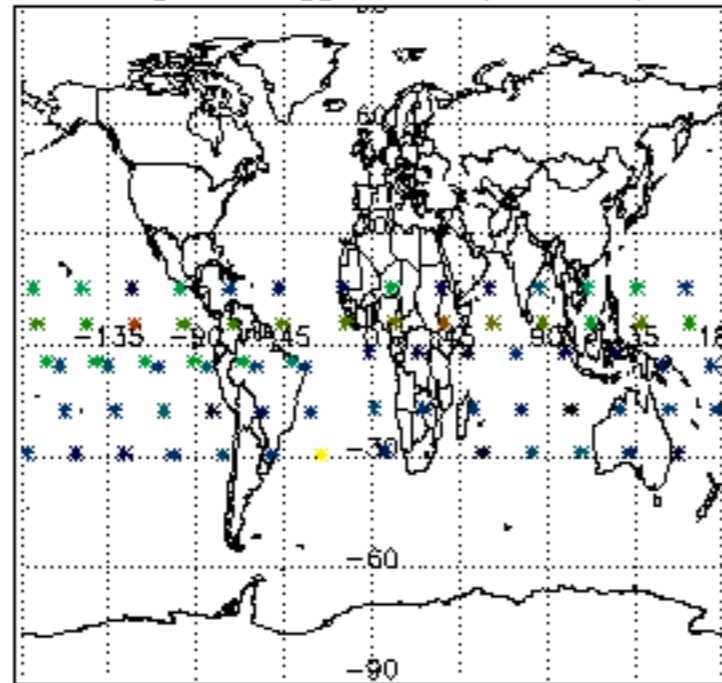
Percentage of flagged data per D3 profile



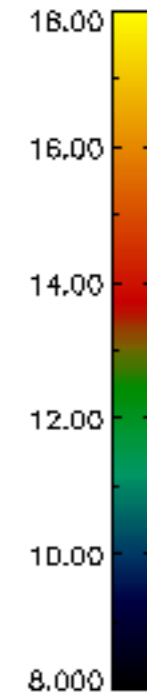
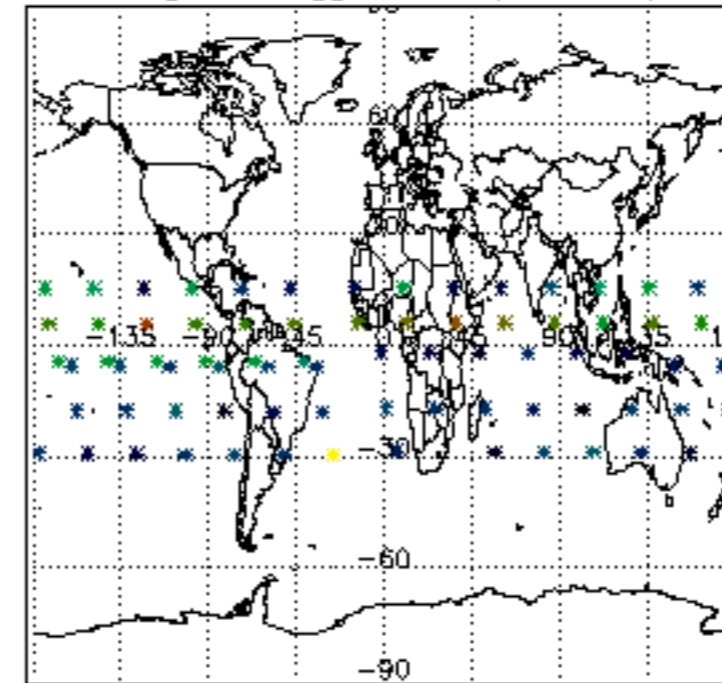
Percentage of flagged data per H2O profile

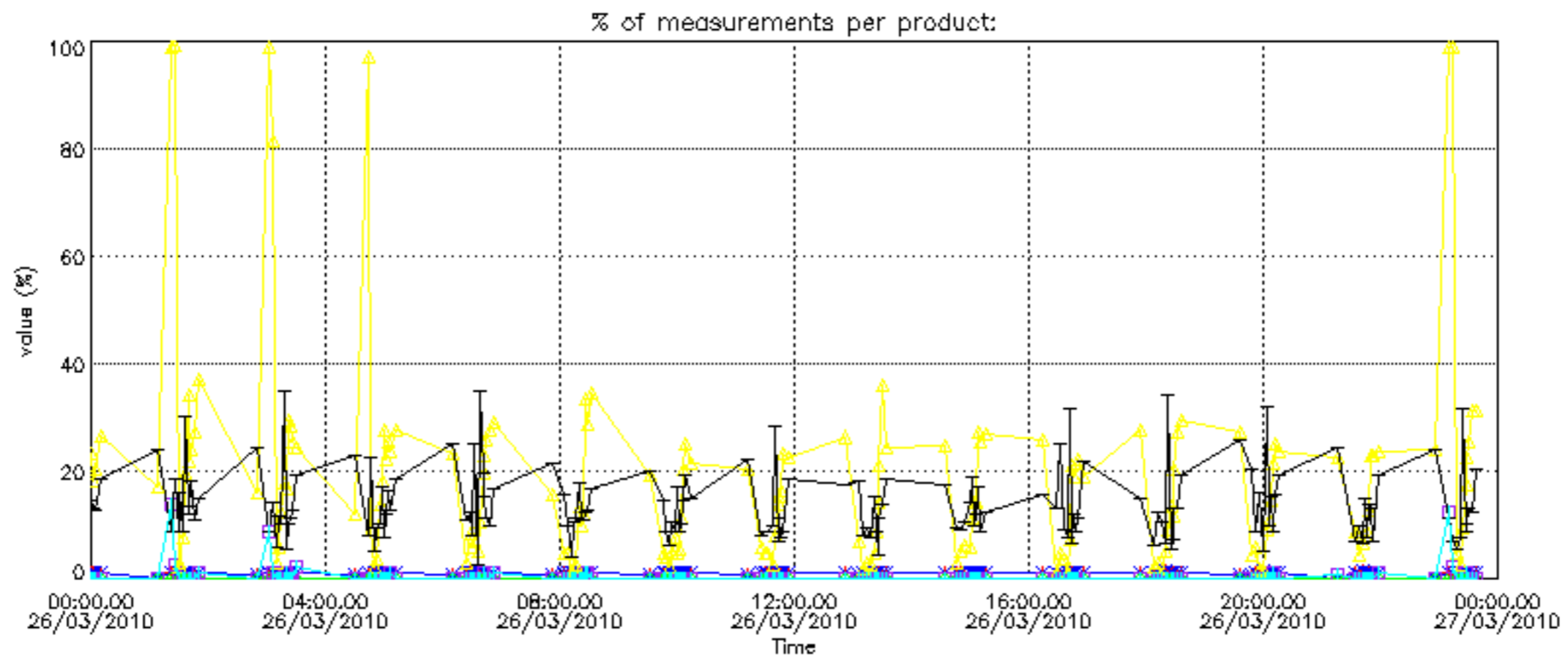
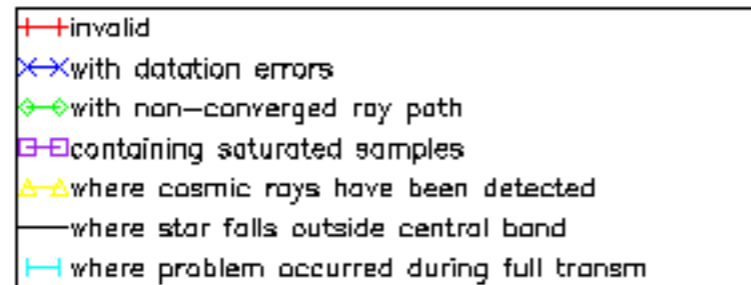


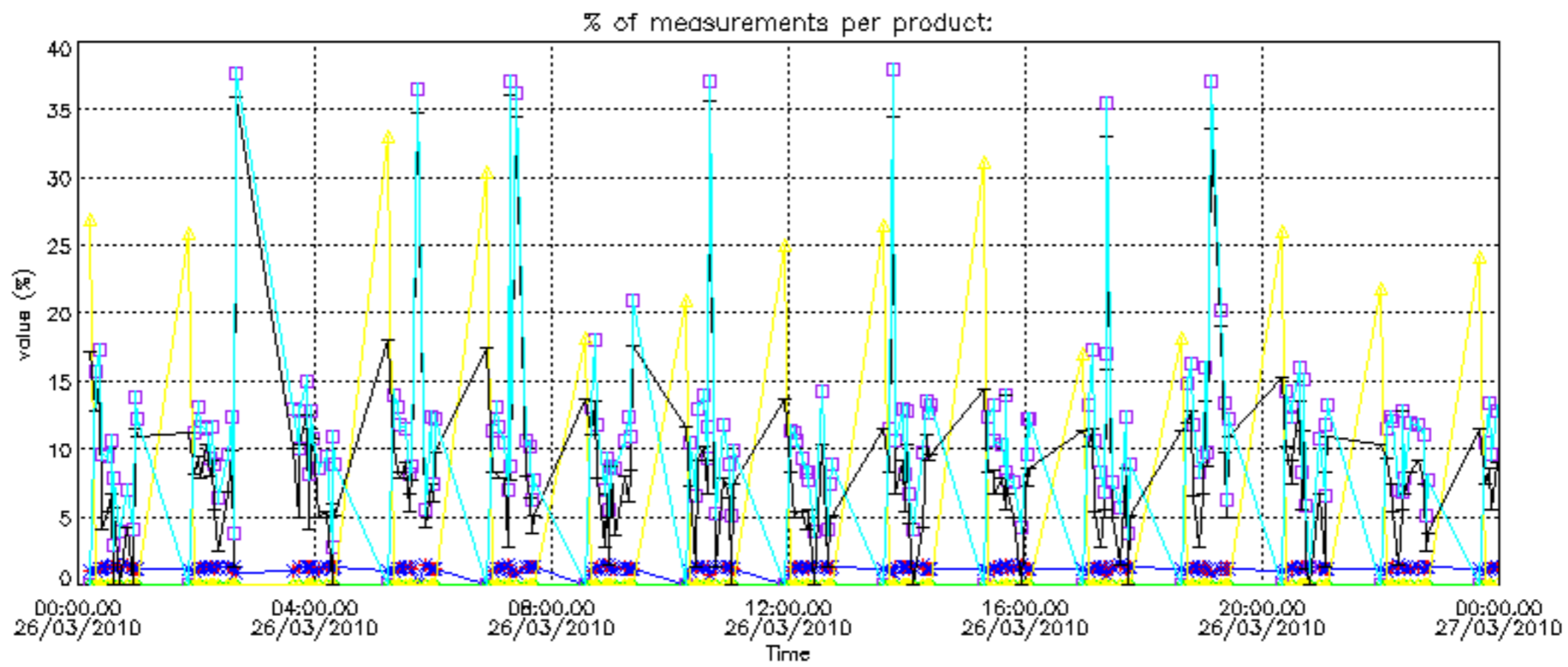
Percentage of flagged data per NO2 profile



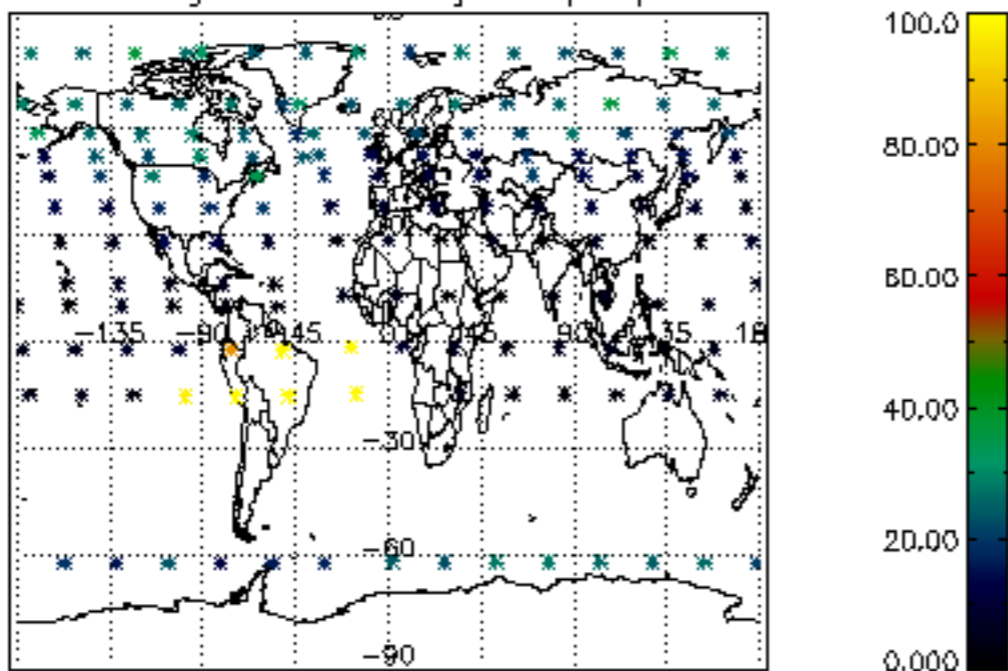
Percentage of flagged data per NO3 profile



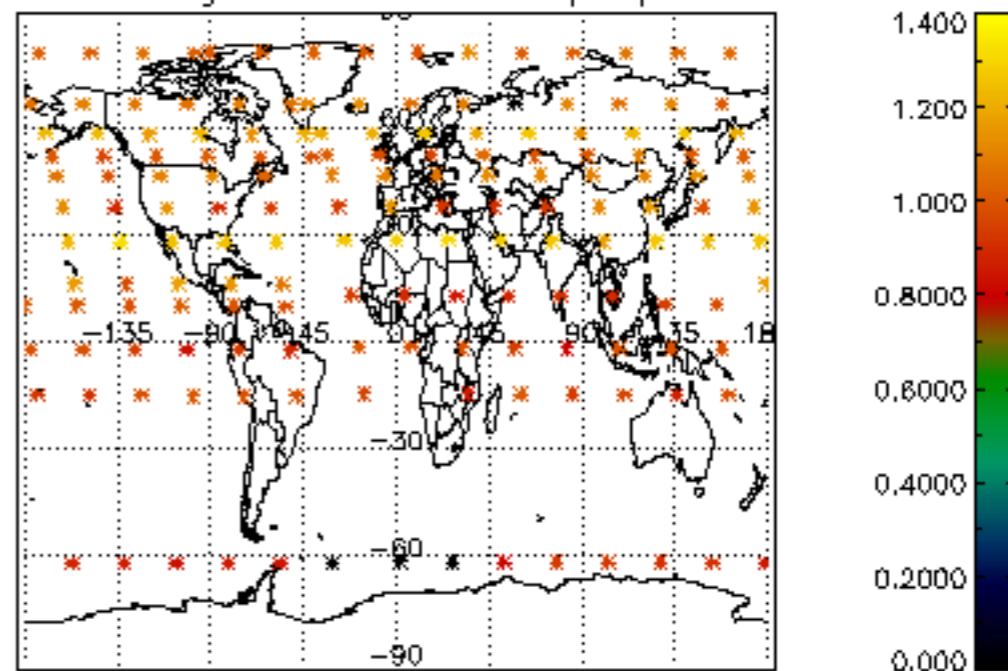




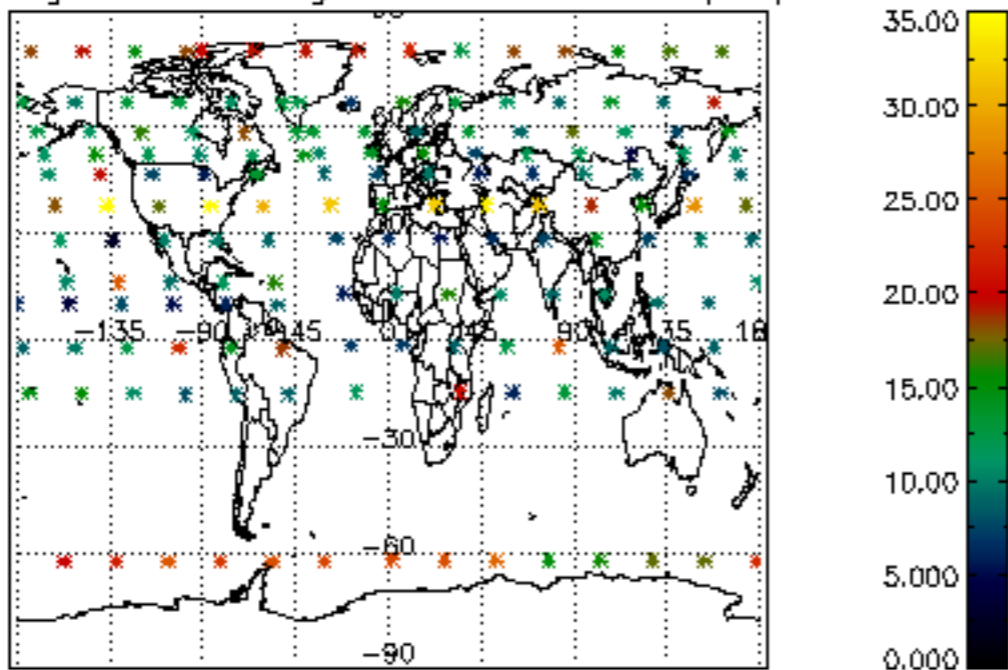
Percentage of cosmic ray hits per profile



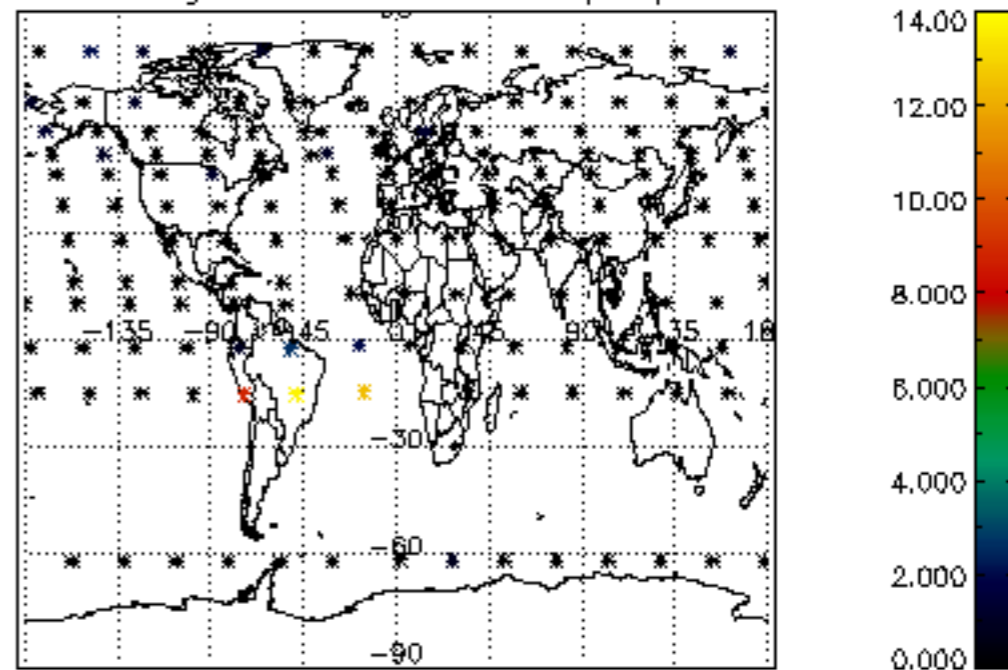
Percentage of datation errors per profile



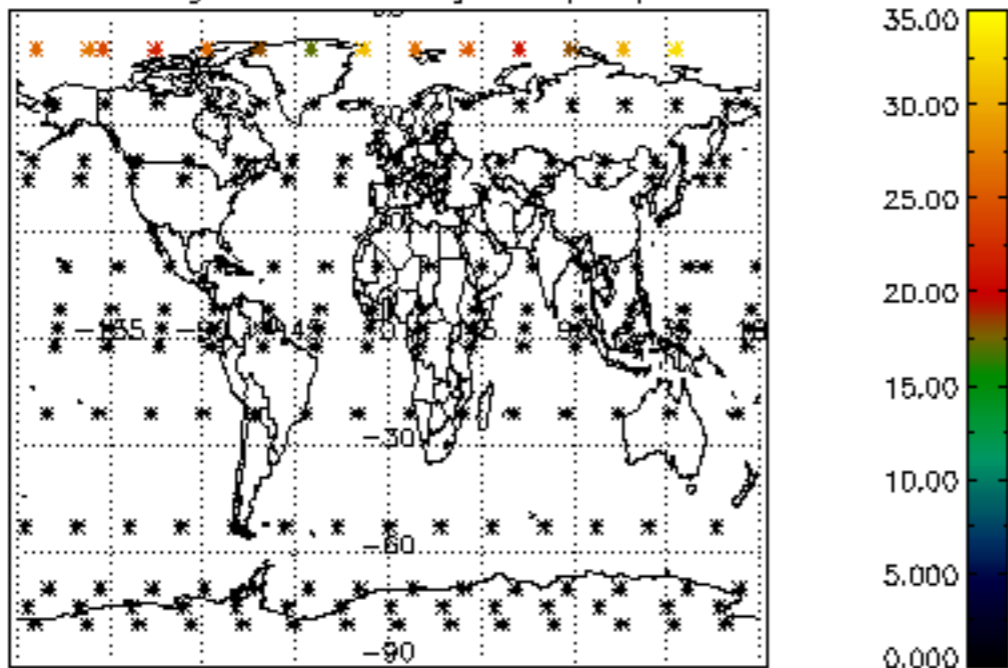
Percentage of star falling outside central band per profile



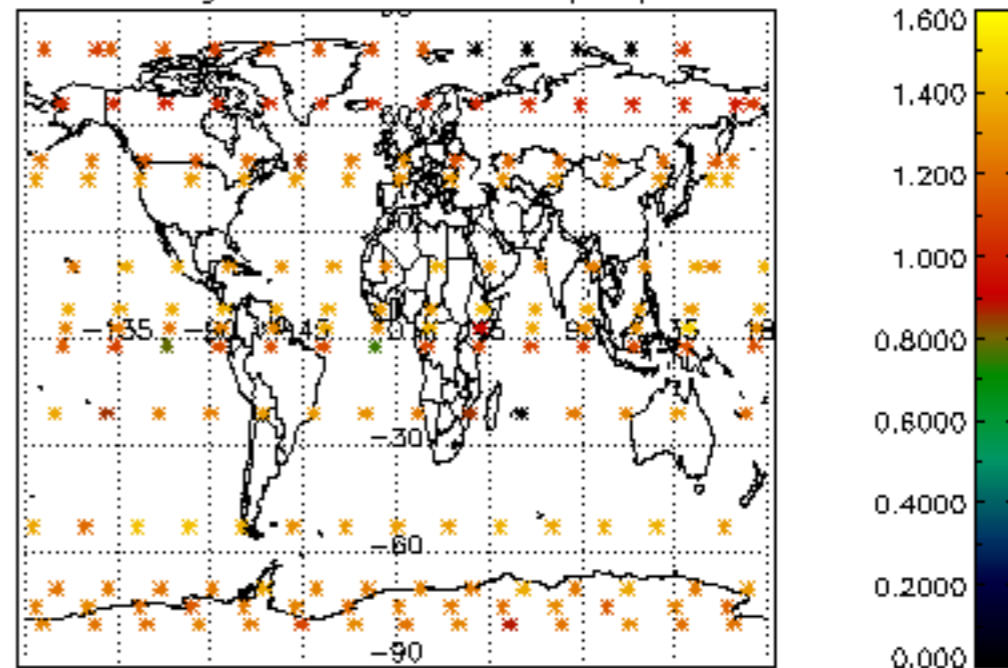
Percentage of saturation errors per profile



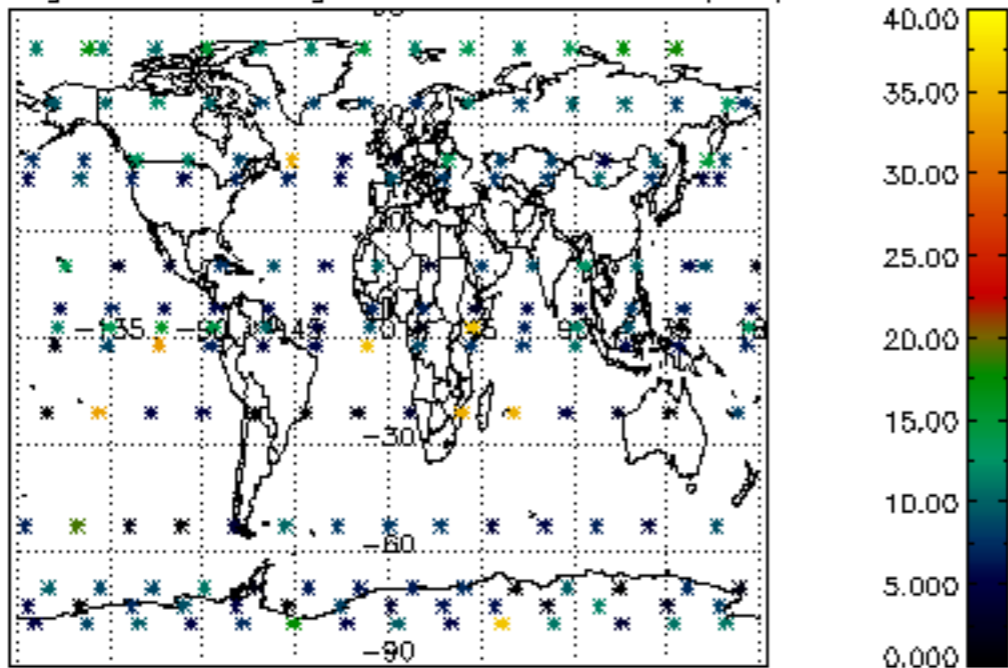
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

