

GOMOS Level 2 Daily Report

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

Item	Value
Time of report generation	25APR2013 22:19:54
Data source version	GOMOS/6.01
Start time of products	19-11-2008 (19NOV2008 00:00:00)
Stop time of products	20-11-2008 (20NOV2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	183
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

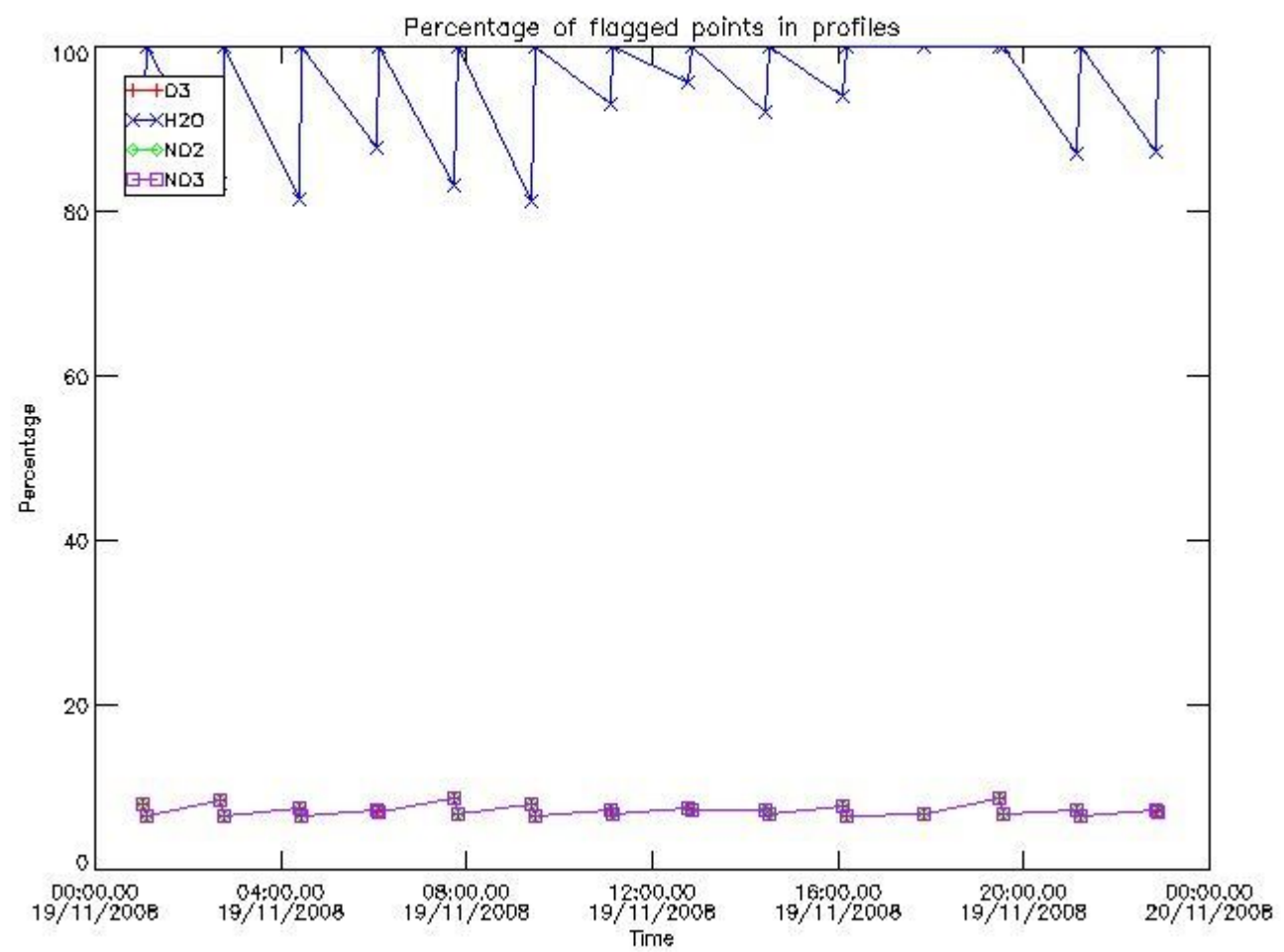
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20081119_002747_000000542074_00016_35140_2726.N1	19-NOV-2008 00:27:47	Bright	54.000	96	68Del Leo	2.5600	9300.0	108	35140	No
2	GOM_NL__2PRFIN20081119_003014_000000932074_00016_35140_2727.N1	19-NOV-2008 00:30:14	Twilight	93.000	51	41Gam1Leo	2.0100	4500.0	186	35140	No
3	GOM_NL__2PRFIN20081119_003524_000001142074_00016_35140_2728.N1	19-NOV-2008 00:35:24	Straylight	113.50	22	32Alp Leo	1.3600	15200.	227	35140	No
4	GOM_NL__2PRFIN20081119_010136_000000642074_00017_35141_2728.N1	19-NOV-2008 01:01:36	Dark	64.000	117	Pi Pup	2.7060	3800.0	128	35141	No
5	GOM_NL__2PRFIN20081119_010540_000000772074_00017_35141_2729.N1	19-NOV-2008 01:05:40	Dark	77.000	23	21Eps CMa	1.5020	26000.	154	35141	No
6	GOM_NL__2PRFIN20081119_010800_000000932074_00017_35141_2730.N1	19-NOV-2008 01:08:00	Straylight	93.000	179	24Omi2CMa	3.0320	24000.	186	35141	No
7	GOM_NL__2PRFIN20081119_011330_000001012074_00017_35141_2731.N1	19-NOV-2008 01:13:30	Straylight	101.00	47	2Bet CMa	1.9760	28000.	202	35141	No
8	GOM_NL__2PRFIN20081119_011840_000000772074_00017_35141_2732.N1	19-NOV-2008 01:18:40	Straylight	76.500	7	19Bet Ori	0.10000	14000.	153	35141	No
9	GOM_NL__2PRFIN20081119_012255_000000802074_00017_35141_2733.N1	19-NOV-2008 01:22:55	Bright	80.000	33	50Zet Ori	1.7660	30000.	160	35141	No
10	GOM_NL__2PRFIN20081119_012740_000000582074_00017_35141_2734.N1	19-NOV-2008 01:27:40	Bright	58.000	13	87Alp Tau	0.86700	3800.0	116	35141	No
11	GOM_NL__2PRFIN20081119_013420_000000552074_00017_35141_2735.N1	19-NOV-2008 01:34:20	Bright	54.500	114	3Iot Aur	2.6930	4600.0	109	35141	No
12	GOM_NL__2PRFIN20081119_013844_000000532074_00017_35141_2736.N1	19-NOV-2008 01:38:44	Bright	53.000	6	13Alp Aur	0.080000	3400.0	106	35141	No
13	GOM_NL__2PRFIN20081119_014033_000000682074_00017_35141_2737.N1	19-NOV-2008 01:40:33	Bright	68.000	107	37The Aur	2.6490	11000.	136	35141	No
14	GOM_NL__2PRFIN20081119_020823_000000502074_00017_35141_2738.N1	19-NOV-2008 02:08:23	Bright	50.000	96	68Del Leo	2.5600	9300.0	100	35141	No
15	GOM_NL__2PRFIN20081119_021051_000000922074_00017_35141_2739.N1	19-NOV-2008 02:10:51	Twilight	91.500	51	41Gam1Leo	2.0100	4500.0	183	35141	No
16	GOM_NL__2PRFIN20081119_021602_000001052074_00017_35141_2740.N1	19-NOV-2008 02:16:02	Straylight	105.00	22	32Alp Leo	1.3600	15200.	210	35141	No
17	GOM_NL__2PRFIN20081119_024213_000000612074_00018_35142_2742.N1	19-NOV-2008 02:42:13	Dark	60.500	117	Pi Pup	2.7060	3800.0	121	35142	No
18	GOM_NL__2PRFIN20081119_024618_000000802074_00018_35142_2743.N1	19-NOV-2008 02:46:18	Dark	79.500	23	21Eps CMa	1.5020	26000.	159	35142	No
19	GOM_NL__2PRFIN20081119_024837_000000932074_00018_35142_2744.N1	19-NOV-2008 02:48:37	Straylight	93.000	179	24Omi2CMa	3.0320	24000.	186	35142	No
20	GOM_NL__2PRFIN20081119_025406_000000912074_00018_35142_2745.N1	19-NOV-2008 02:54:06	Straylight	90.500	47	2Bet CMa	1.9760	28000.	181	35142	No
21	GOM_NL__2PRFIN20081119_025916_000000762074_00018_35142_2746.N1	19-NOV-2008 02:59:16	Straylight	76.000	7	19Bet Ori	0.10000	14000.	152	35142	No
22	GOM_NL__2PRFIN20081119_030330_000000872074_00018_35142_2747.N1	19-NOV-2008 03:03:30	Bright	87.000	33	50Zet Ori	1.7660	30000.	174	35142	No
23	GOM_NL__2PRFIN20081119_031455_000000552074_00018_35142_2748.N1	19-NOV-2008 03:14:55	Bright	54.500	114	3Iot Aur	2.6930	4600.0	109	35142	No
24	GOM_NL__2PRFIN20081119_031919_000000562074_00018_35142_2749.N1	19-NOV-2008 03:19:19	Bright	56.000	6	13Alp Aur	0.080000	3400.0	112	35142	No
25	GOM_NL__2PRFIN20081119_032107_000000712074_00018_35142_2750.N1	19-NOV-2008 03:21:07	Bright	70.500	107	37The Aur	2.6490	11000.	141	35142	No
26	GOM_NL__2PRFIN20081119_034859_000000592074_00018_35142_2751.N1	19-NOV-2008 03:48:59	Bright	58.500	96	68Del Leo	2.5600	9300.0	117	35142	No
27	GOM_NL__2PRFIN20081119_035127_000000922074_00018_35142_2752.N1	19-NOV-2008 03:51:27	Twilight	92.000	51	41Gam1Leo	2.0100	4500.0	184	35142	No
28	GOM_NL__2PRFIN20081119_035640_000001162074_00018_35142_2753.N1	19-NOV-2008 03:56:40	Straylight	116.00	22	32Alp Leo	1.3600	15200.	232	35142	No
29	GOM_NL__2PRFIN20081119_042250_000000682074_00019_35143_2751.N1	19-NOV-2008 04:22:50	Dark	68.000	117	Pi Pup	2.7060	3800.0	136	35143	No
30	GOM_NL__2PRFIN20081119_042654_000000782074_00019_35143_2752.N1	19-NOV-2008 04:26:54	Dark	78.000	23	21Eps CMa	1.5020	26000.	156	35143	No
31	GOM_NL__2PRFIN20081119_042914_000000902074_00019_35143_2753.N1	19-NOV-2008 04:29:14	Straylight	90.000	179	24Omi2CMa	3.0320	24000.	180	35143	No
32	GOM_NL__2PRFIN20081119_043442_000000952074_00019_35143_2754.N1	19-NOV-2008 04:34:42	Straylight	94.500	47	2Bet CMa	1.9760	28000.	189	35143	No
33	GOM_NL__2PRFIN20081119_043951_000000802074_00019_35143_2755.N1	19-NOV-2008 04:39:51	Straylight	80.000	7	19Bet Ori	0.10000	14000.	160	35143	No
34	GOM_NL__2PRFIN20081119_044405_000000872074_00019_35143_2756.N1	19-NOV-2008 04:44:05	Bright	87.000	33	50Zet Ori	1.7660	30000.	174	35143	No
35	GOM_NL__2PRFIN20081119_045530_000000552074_00019_35143_2757.N1	19-NOV-2008 04:55:30	Bright	55.000	114	3Iot Aur	2.6930	4600.0	110	35143	No
36	GOM_NL__2PRFIN20081119_045954_000000552074_00019_35143_2758.N1	19-NOV-2008 04:59:54	Bright	55.000	6	13Alp Aur	0.080000	3400.0	110	35143	No
37	GOM_NL__2PRFIN20081119_050141_000000732074_00019_35143_2759.N1	19-NOV-2008 05:01:41	Bright	72.500	107	37The Aur	2.6490	11000.	145	35143	No
38	GOM_NL__2PRFIN20081119_052936_000000522074_00019_35143_2760.N1	19-NOV-2008 05:29:36	Bright	51.500	96	68Del Leo	2.5600	9300.0	103	35143	No
39	GOM_NL__2PRFIN20081119_053205_000000972074_00019_35143_2761.N1	19-NOV-2008 05:32:05	Twilight	96.500	51	41Gam1Leo	2.0100	4500.0	193	35143	No
40	GOM_NL__2PRFIN20081119_053718_000001152074_00019_35143_2762.N1	19-NOV-2008 05:37:18	Straylight	114.50	22	32Alp Leo	1.3600	15200.	229	35143	No
41	GOM_NL__2PRFIN20081119_060328_000000782074_00020_35144_2772.N1	19-NOV-2008 06:03:28	Dark	77.500	117	Pi Pup	2.7060	3800.0	155	35144	No
42	GOM_NL__2PRFIN20081119_060731_000000742074_00020_35144_2773.N1	19-NOV-2008 06:07:31	Dark	74.000	23	21Eps CMa	1.5020	26000.	148	35144	No

161	GOM_NL__2PRFIN20081119_212045_00000932074_00029_35153_3012.N1	19-NOV-2008 21:20:45	Straylight	93.000	47	2Bet CMa	1.9760	28000.	186	35153	No
162	GOM_NL__2PRFIN20081119_212549_00000842074_00029_35153_3013.N1	19-NOV-2008 21:25:49	Straylight	83.500	7	19Bet Ori	0.10000	14000.	167	35153	No
163	GOM_NL__2PRFIN20081119_213003_00000922074_00029_35153_3014.N1	19-NOV-2008 21:30:03	Bright	91.500	30	46Eps Ori	1.6940	30000.	183	35153	No
164	GOM_NL__2PRFIN20081119_213443_00000572074_00029_35153_3015.N1	19-NOV-2008 21:34:43	Bright	57.000	13	87Alp Tau	0.86700	3800.0	114	35153	No
165	GOM_NL__2PRFIN20081119_214120_00000542074_00029_35153_3016.N1	19-NOV-2008 21:41:20	Bright	54.000	114	3Iot Aur	2.6930	4600.0	108	35153	No
166	GOM_NL__2PRFIN20081119_214544_00000522074_00029_35153_3017.N1	19-NOV-2008 21:45:44	Bright	52.000	6	13Alp Aur	0.080000	3400.0	104	35153	No
167	GOM_NL__2PRFIN20081119_214724_00000702074_00029_35153_3018.N1	19-NOV-2008 21:47:24	Bright	70.000	107	37The Aur	2.6490	11000.	140	35153	No
168	GOM_NL__2PRFIN20081119_220629_00000472074_00029_35153_3019.N1	19-NOV-2008 22:06:29	Bright	46.500	174	52Psi UMa	3.0040	4400.0	93	35153	No
169	GOM_NL__2PRFIN20081119_221540_00000542074_00029_35153_3020.N1	19-NOV-2008 22:15:40	Bright	54.000	96	68Del Leo	2.5600	9300.0	108	35153	No
170	GOM_NL__2PRFIN20081119_221814_000001002074_00029_35153_3021.N1	19-NOV-2008 22:18:14	Twilight_stray	100.00	51	41Gam1Leo	2.0100	4500.0	200	35153	No
171	GOM_NL__2PRFIN20081119_224938_00000722074_00030_35154_3039.N1	19-NOV-2008 22:49:38	Dark	71.500	117	Pi Pup	2.7060	3800.0	143	35154	No
172	GOM_NL__2PRFIN20081119_225342_00000742074_00030_35154_3040.N1	19-NOV-2008 22:53:42	Dark	73.500	23	21Eps CMa	1.5020	26000.	147	35154	No
173	GOM_NL__2PRFIN20081119_225601_00000932074_00030_35154_3041.N1	19-NOV-2008 22:56:01	Straylight	93.000	179	24Omi2CMa	3.0320	24000.	186	35154	No
174	GOM_NL__2PRFIN20081119_230121_00000962074_00030_35154_3042.N1	19-NOV-2008 23:01:21	Straylight	96.000	47	2Bet CMa	1.9760	28000.	192	35154	No
175	GOM_NL__2PRFIN20081119_230624_00000752074_00030_35154_3043.N1	19-NOV-2008 23:06:24	Straylight	75.000	7	19Bet Ori	0.10000	14000.	150	35154	No
176	GOM_NL__2PRFIN20081119_231038_00000882074_00030_35154_3044.N1	19-NOV-2008 23:10:38	Bright	87.500	30	46Eps Ori	1.6940	30000.	175	35154	No
177	GOM_NL__2PRFIN20081119_231518_00000592074_00030_35154_3045.N1	19-NOV-2008 23:15:18	Bright	58.500	13	87Alp Tau	0.86700	3800.0	117	35154	No
178	GOM_NL__2PRFIN20081119_232155_00000522074_00030_35154_3046.N1	19-NOV-2008 23:21:55	Bright	52.000	114	3Iot Aur	2.6930	4600.0	104	35154	No
179	GOM_NL__2PRFIN20081119_232619_00000752074_00030_35154_3047.N1	19-NOV-2008 23:26:19	Bright	75.000	6	13Alp Aur	0.080000	3400.0	150	35154	No
180	GOM_NL__2PRFIN20081119_232859_00000592074_00030_35154_3048.N1	19-NOV-2008 23:28:59	Bright	58.500	42	34Bet Aur	1.9000	10200.	117	35154	No
181	GOM_NL__2PRFIN20081119_234705_00000472074_00030_35154_3049.N1	19-NOV-2008 23:47:05	Bright	46.500	174	52Psi UMa	3.0040	4400.0	93	35154	No
182	GOM_NL__2PRFIN20081119_235617_00000522074_00030_35154_3050.N1	19-NOV-2008 23:56:17	Bright	51.500	96	68Del Leo	2.5600	9300.0	103	35154	No
183	GOM_NL__2PRFIN20081119_235851_000001002074_00030_35154_3051.N1	19-NOV-2008 23:58:51	Twilight_stray	100.00	51	41Gam1Leo	2.0100	4500.0	200	35154	No

3. Quality information per product

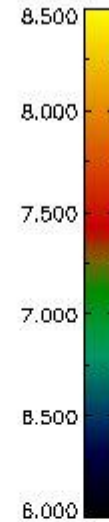
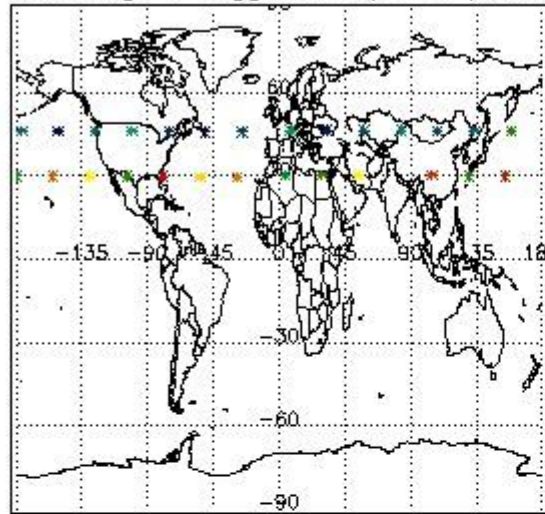
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

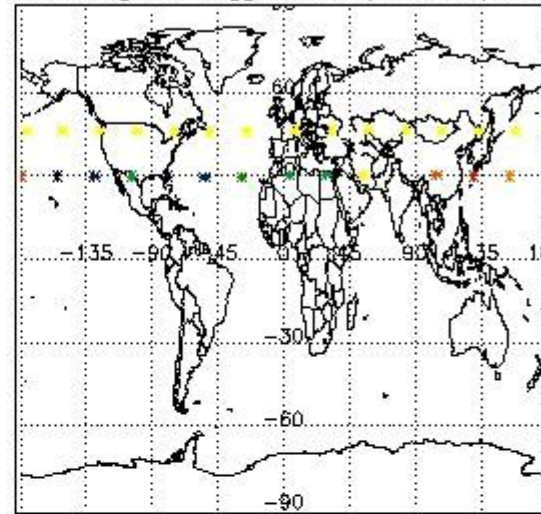


3.2 Plot quality information per product (world map)

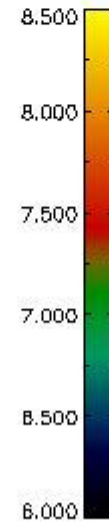
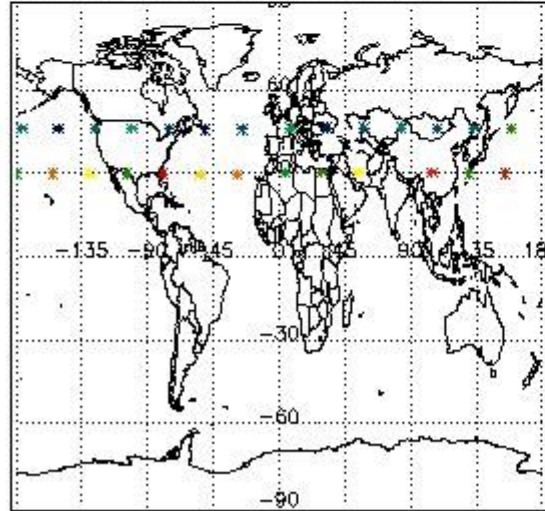
Percentage of flagged data per O3 profile



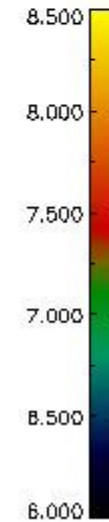
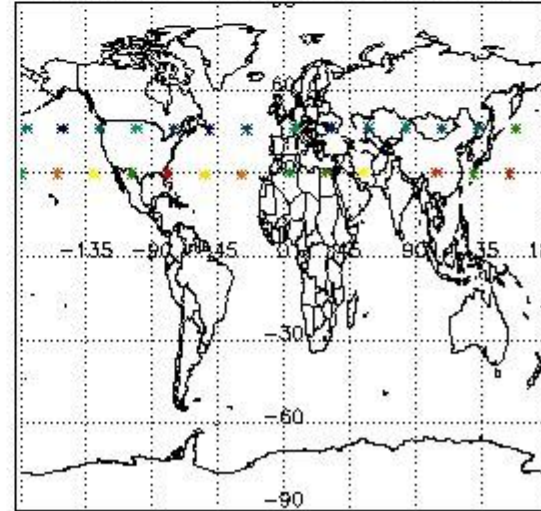
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

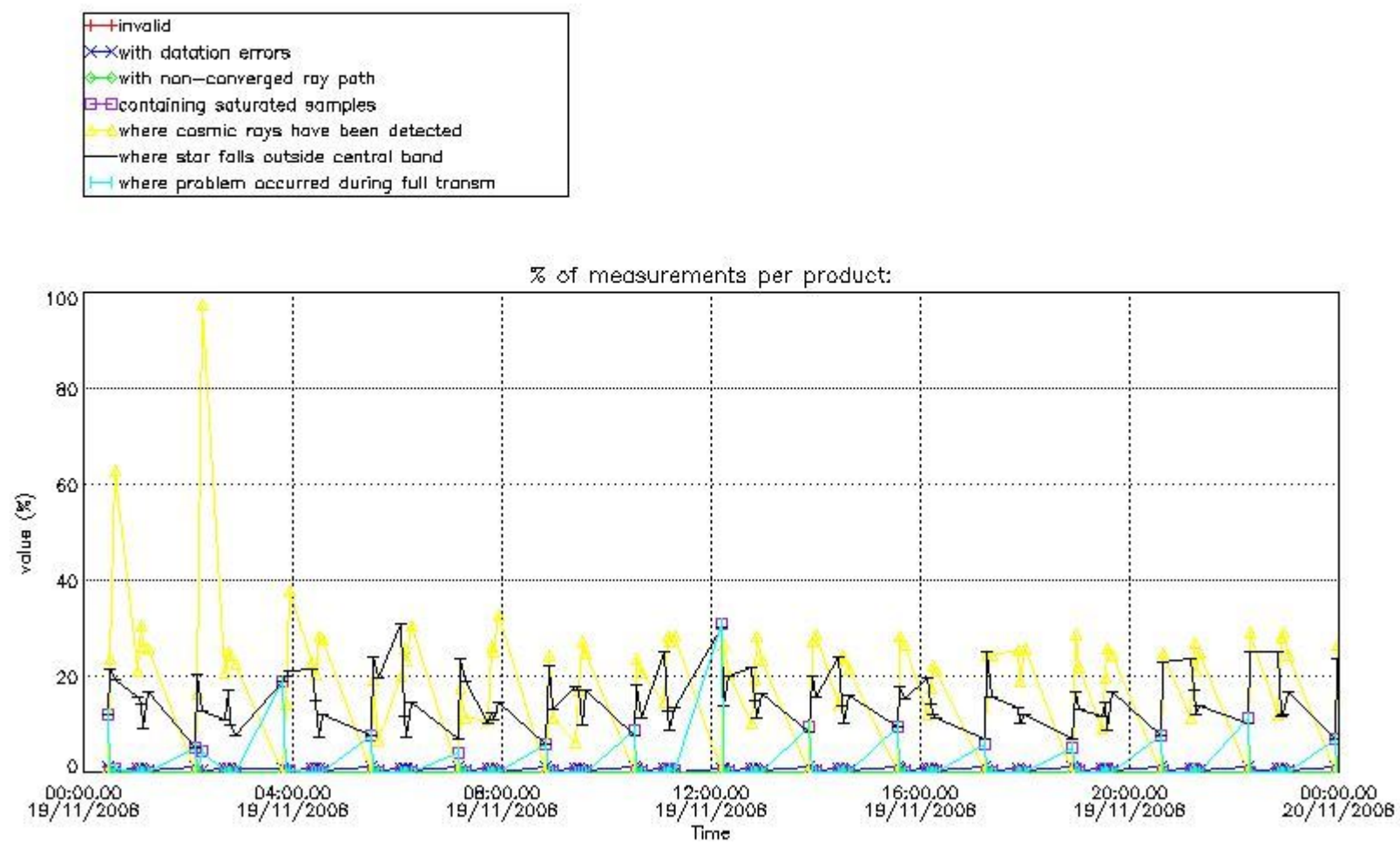


4. Level 1 quality information per product

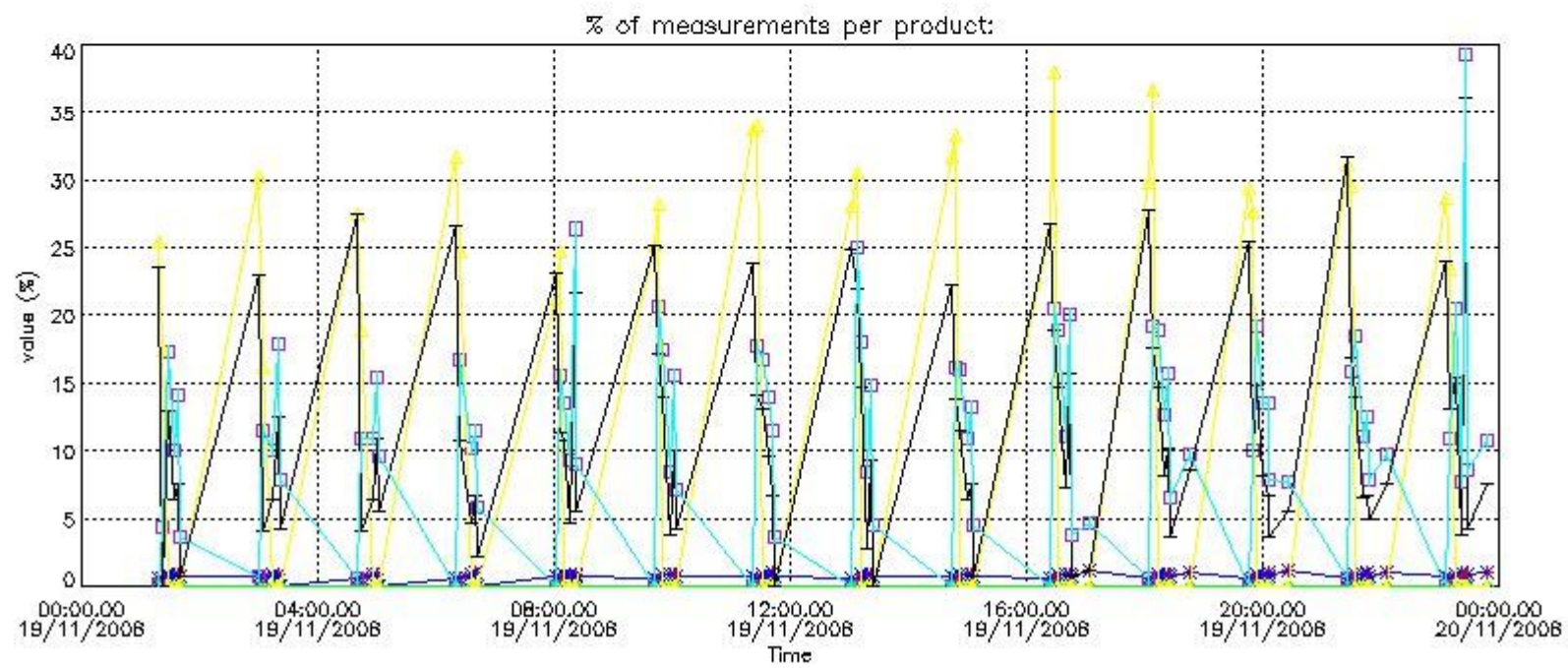
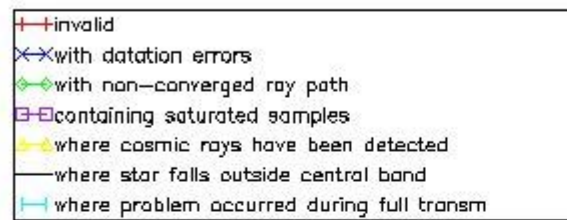
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

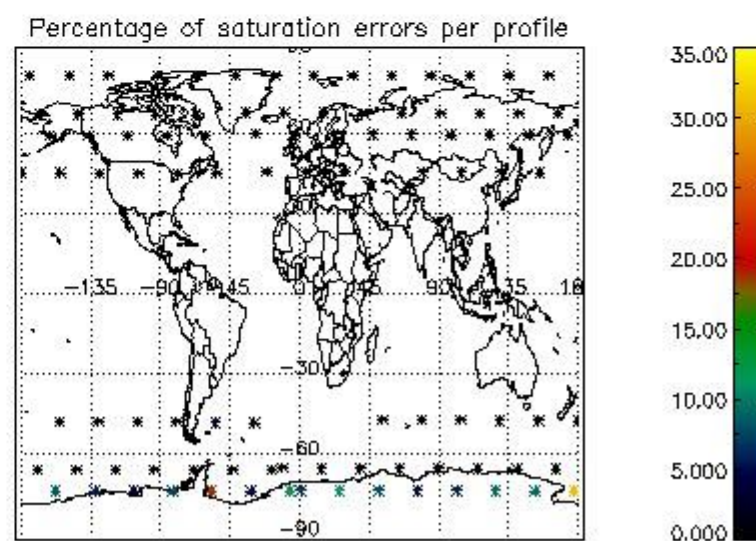
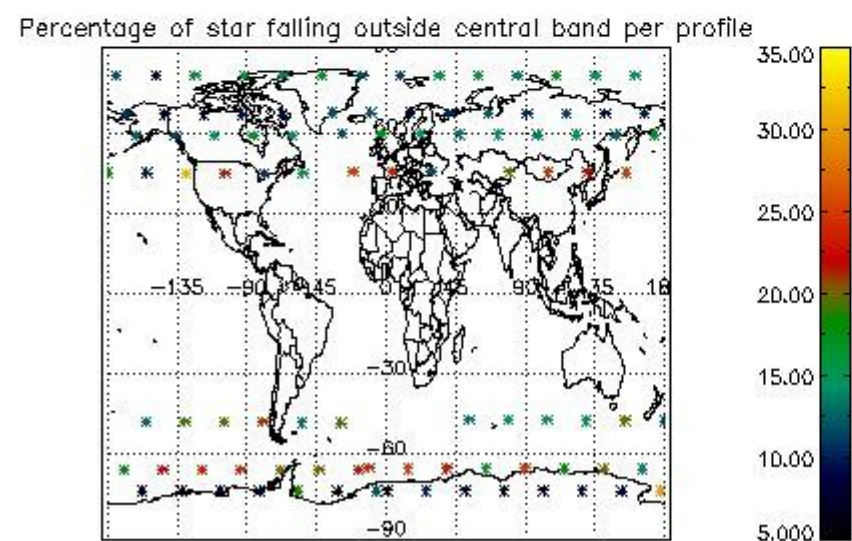
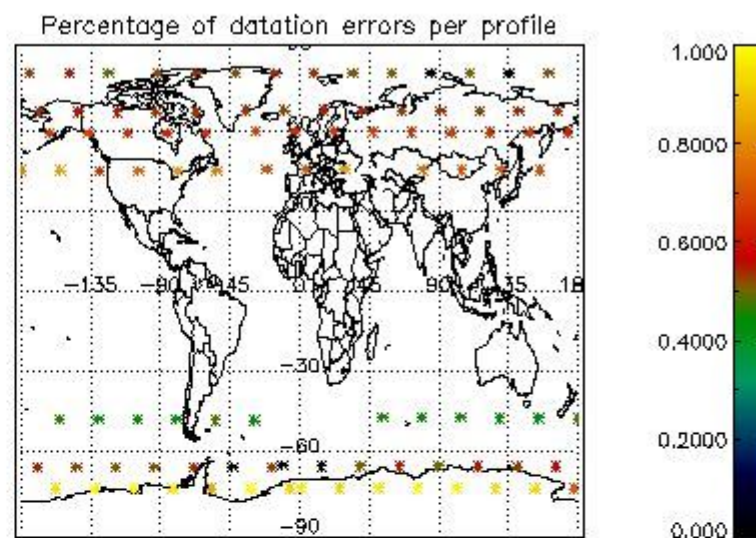
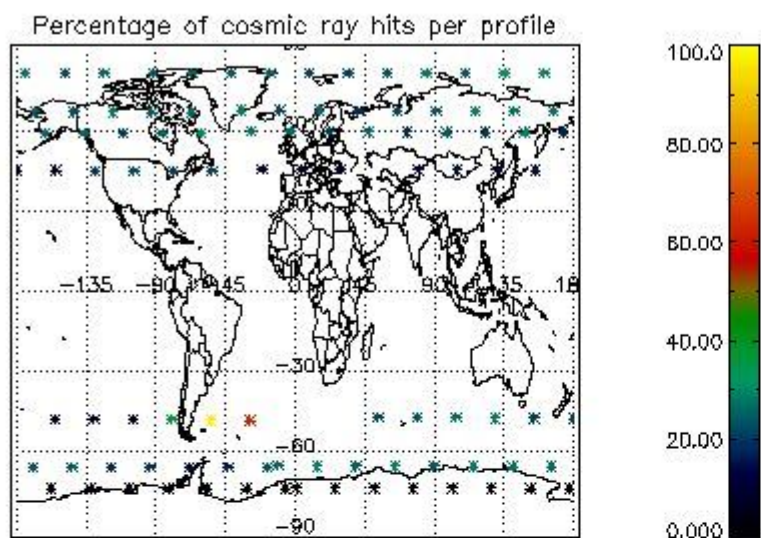


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

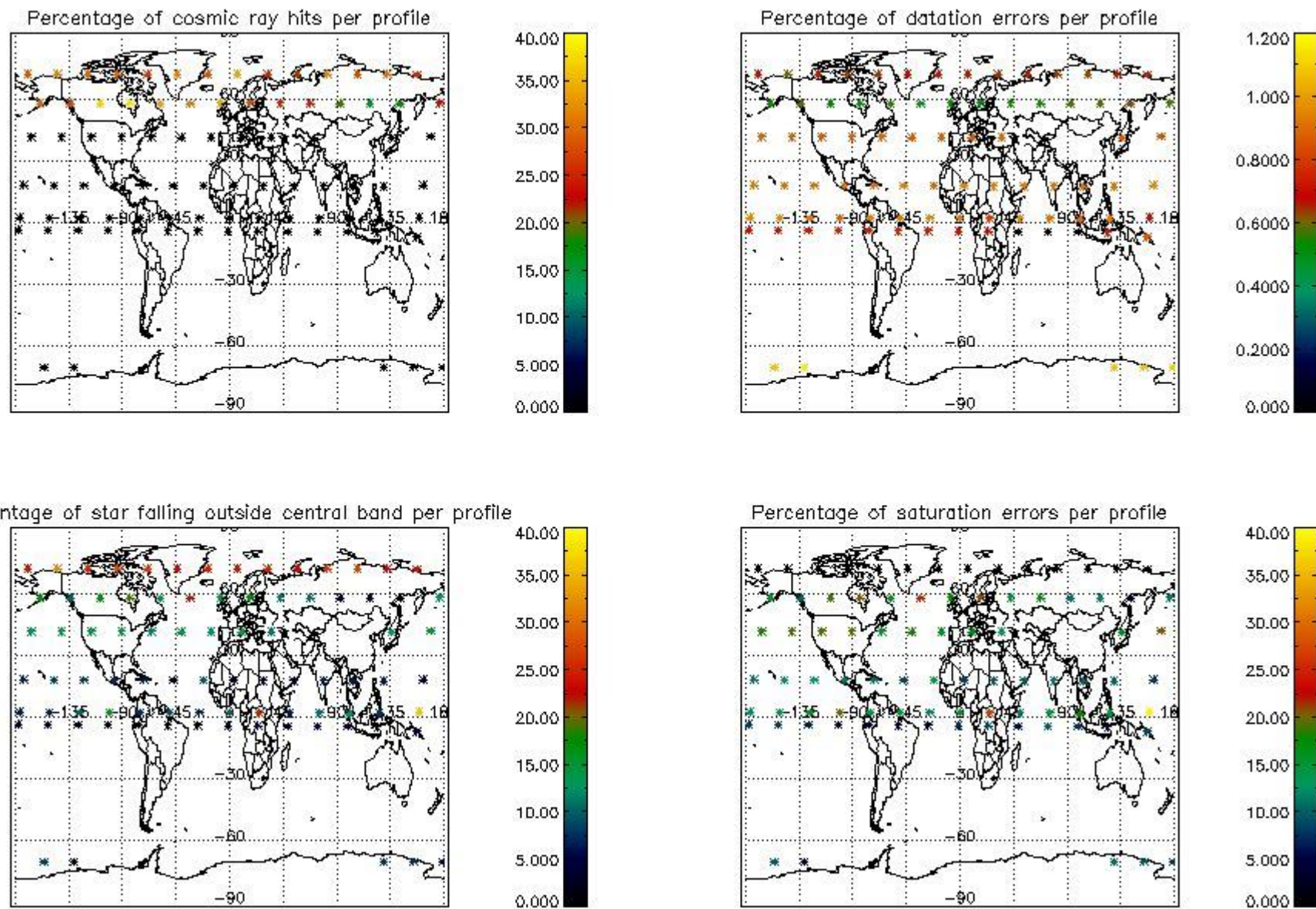


4.2 Plot quality information per product coming from level 1b processing (world map)

4.2.1 Plot level 1 quality information per product (world map): ENVI SAT 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

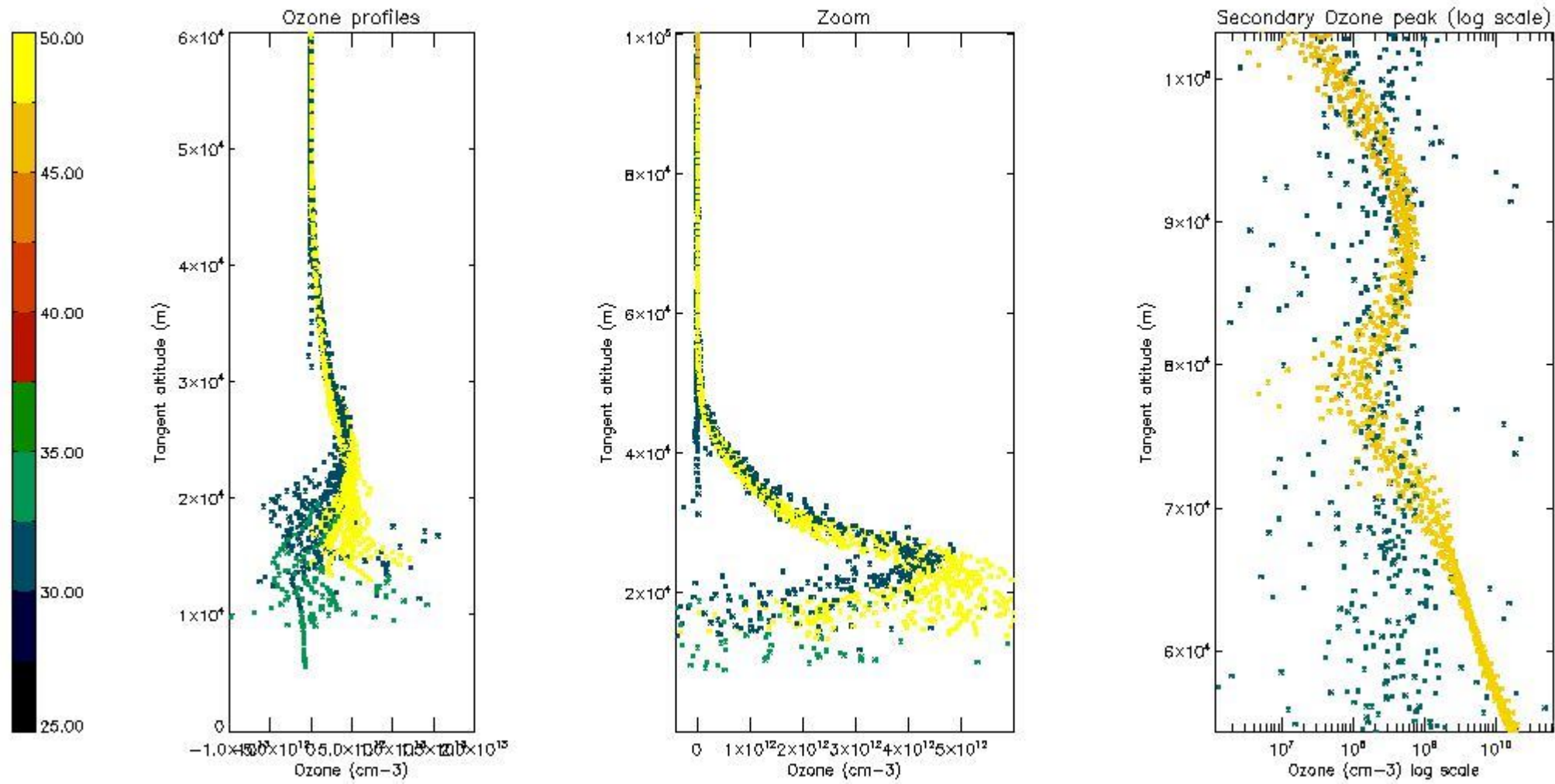
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	14
STD < 20	8

STD < 10	6
STD < 5	5

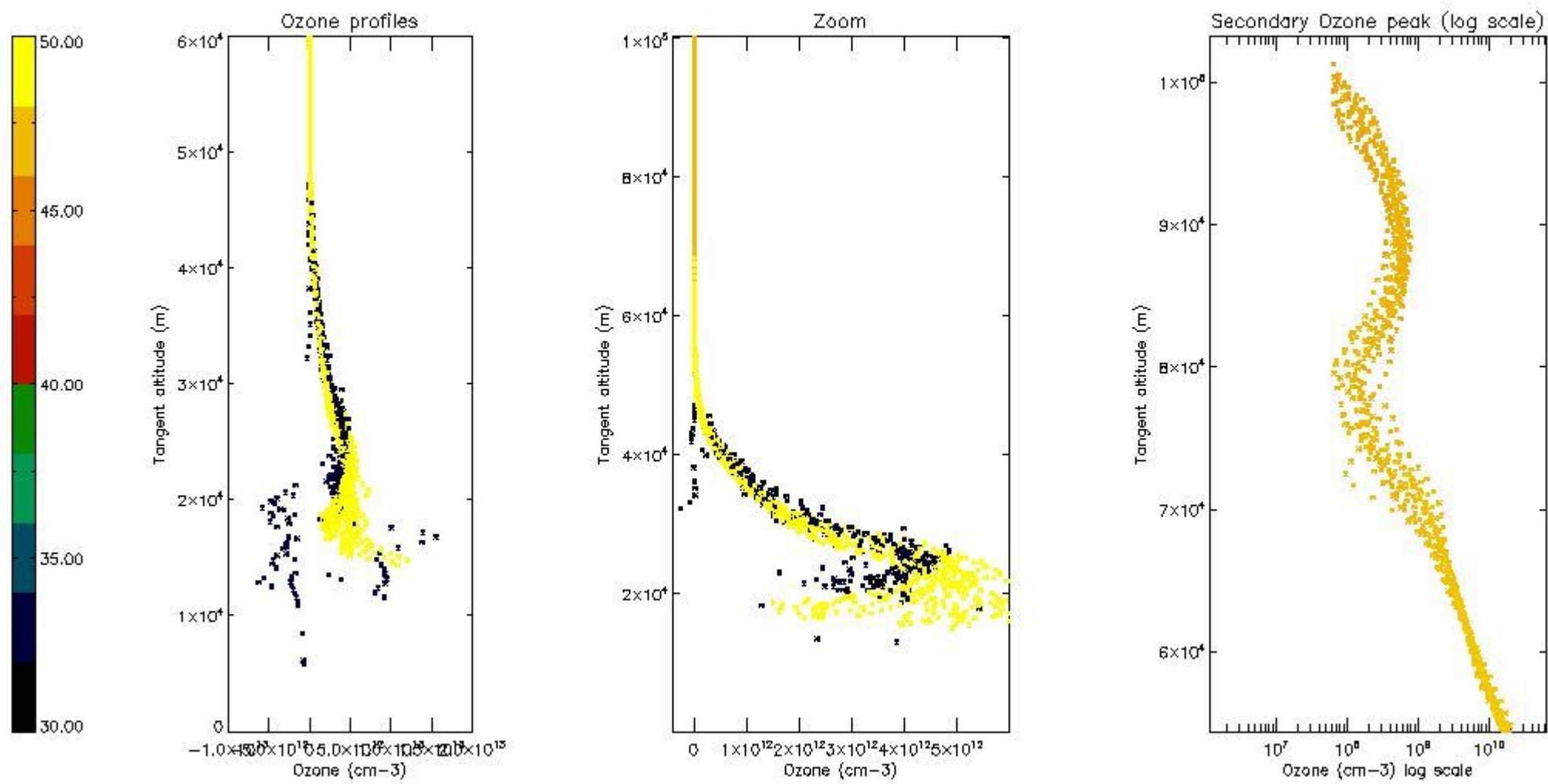
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



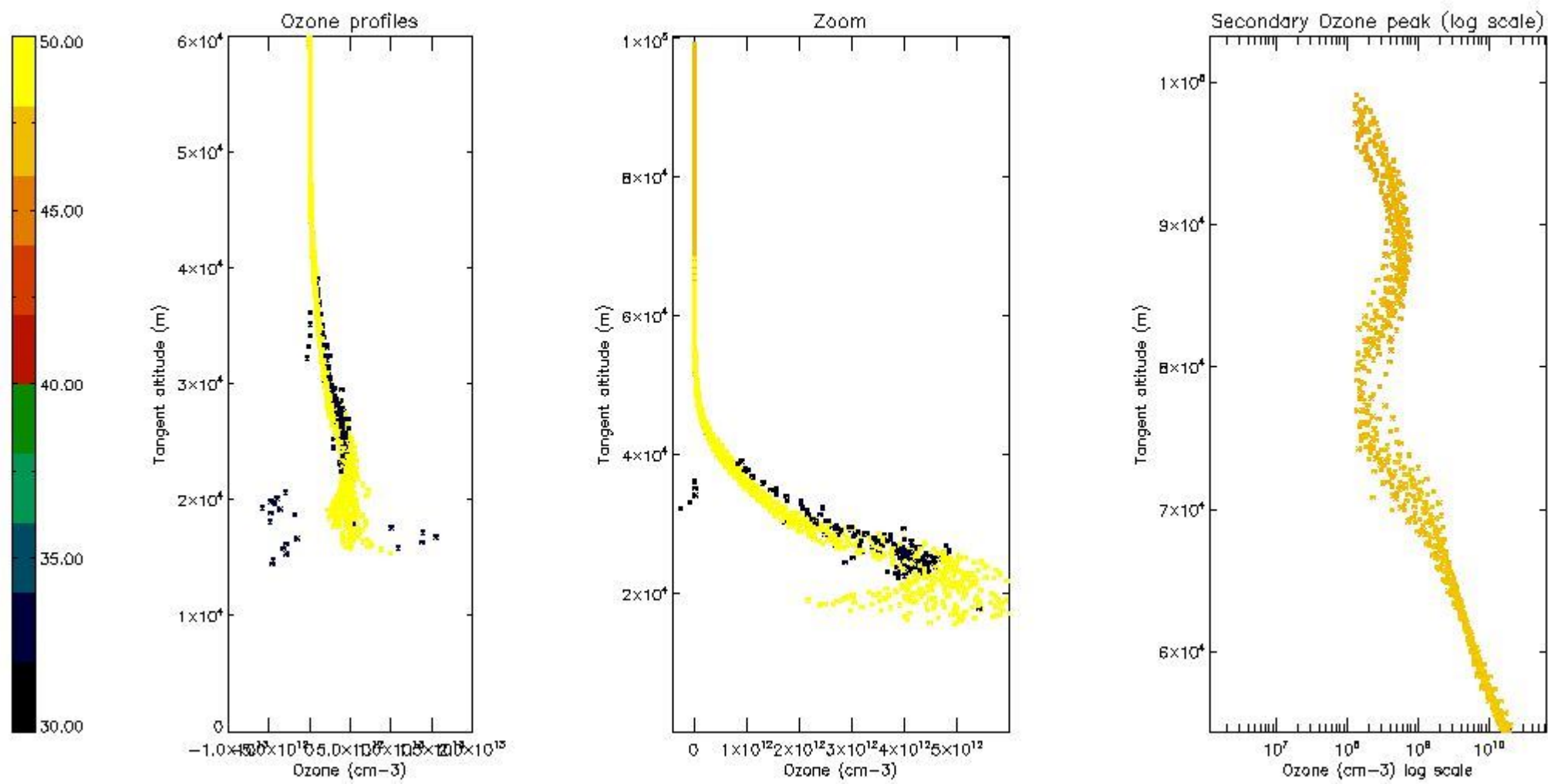
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



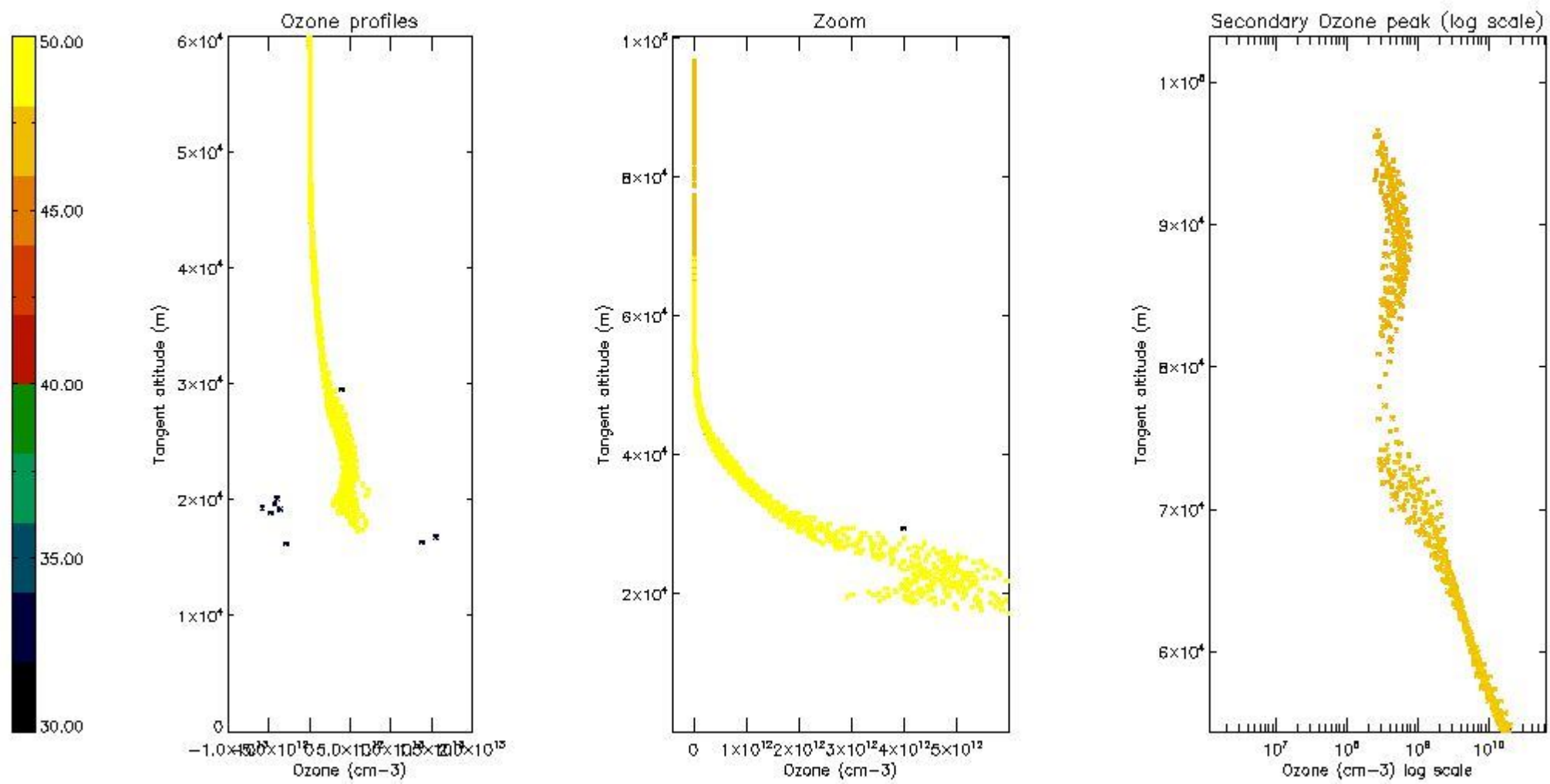
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



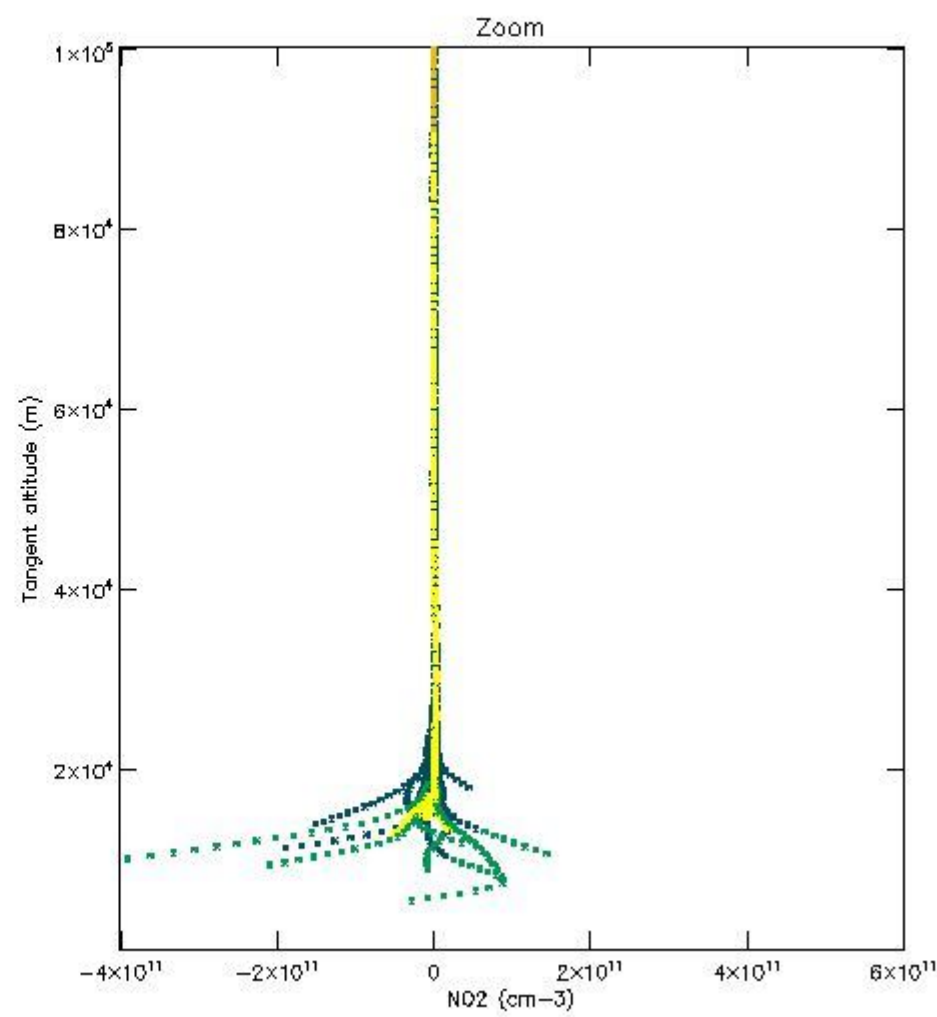
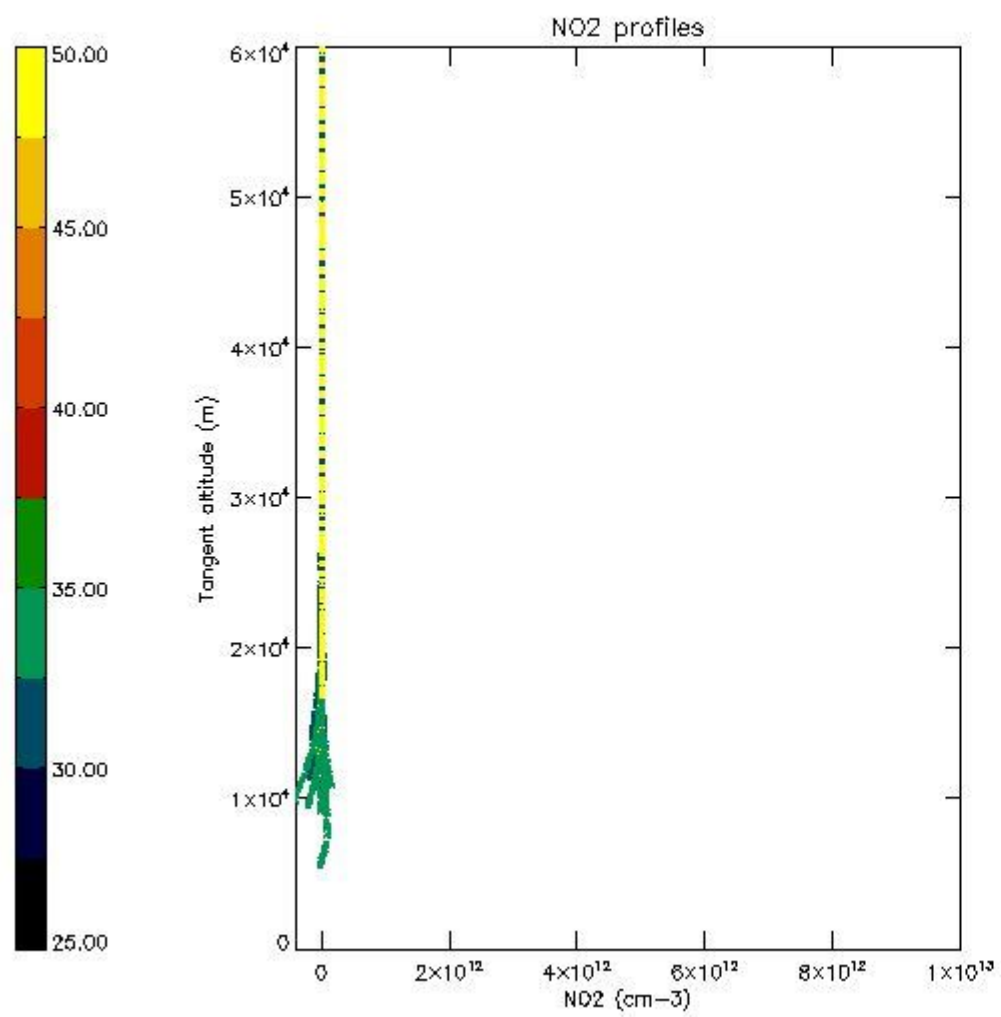
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



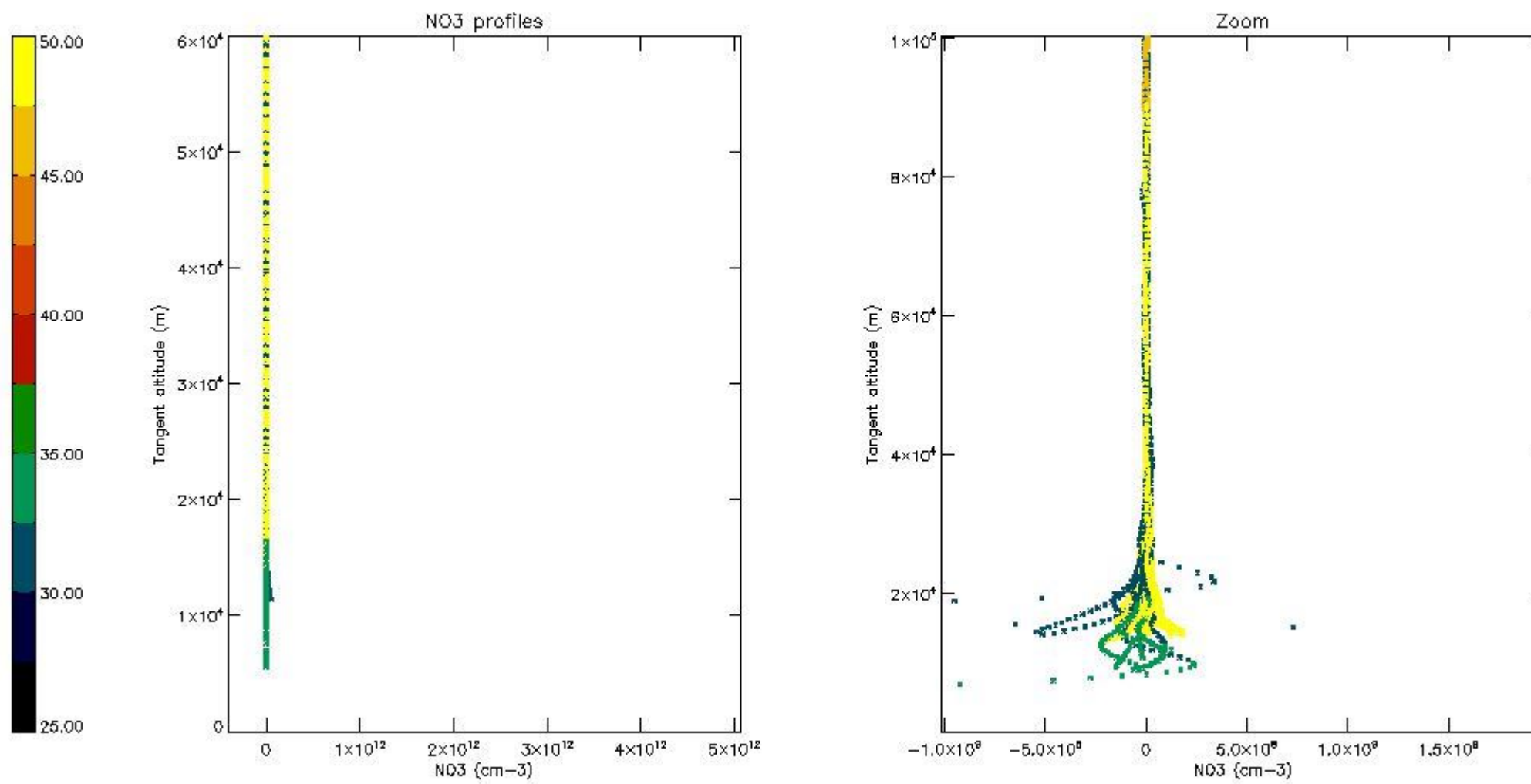
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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-2008 00:27:47
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-NOV-2008 00:27:47
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-NOV-2008 00:27:47

GOMOS Level 2 Daily Report

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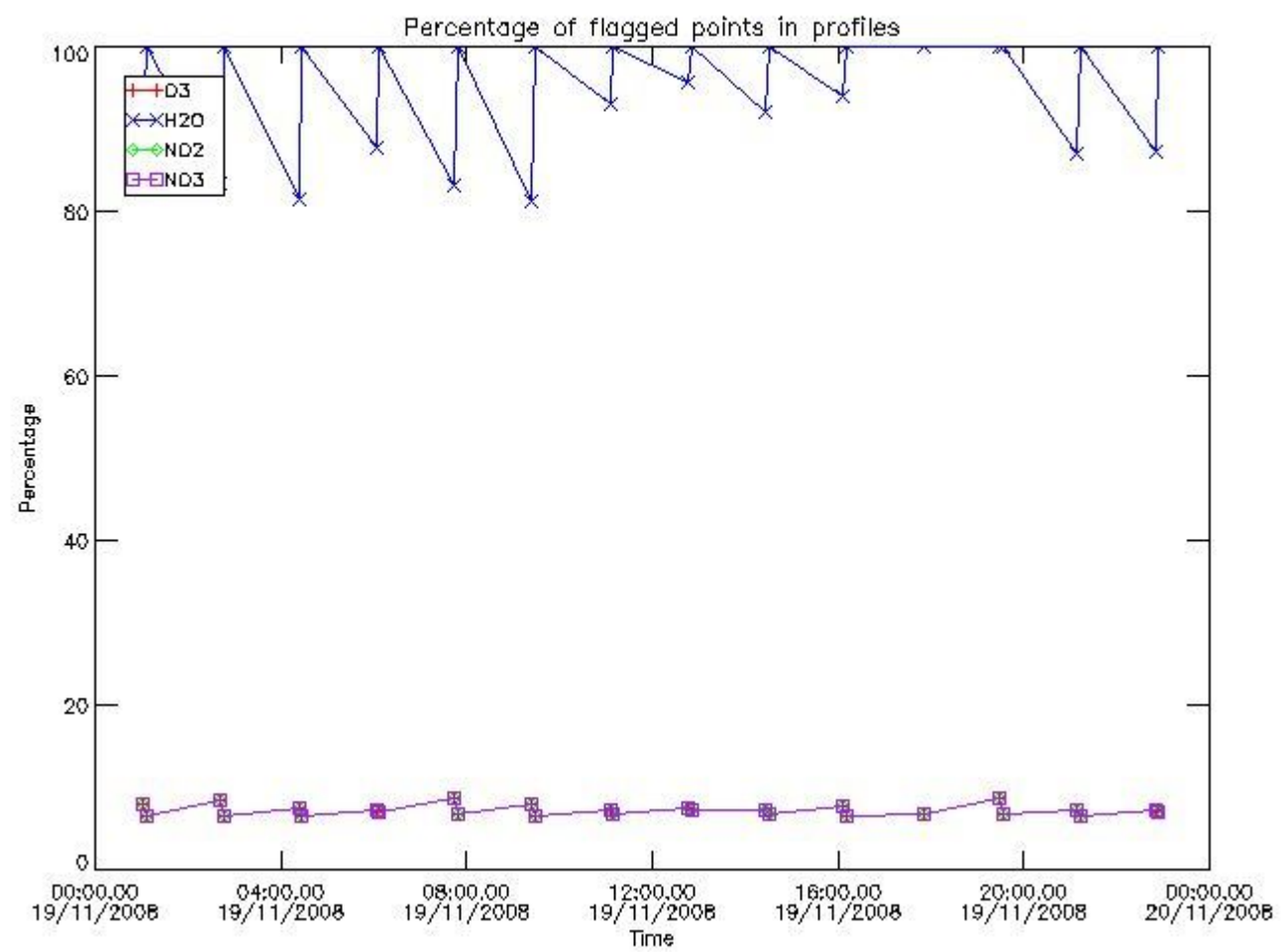
[6. Auxiliary Data Files used for the production reported in section 2](#)

161	GOM_NL__2PRFIN20081119_212045_00000932074_00029_35153_3012.N1	19-NOV-2008 21:20:45	Straylight	93.000	47	2Bet CMa	1.9760	28000.	186	35153	No
162	GOM_NL__2PRFIN20081119_212549_00000842074_00029_35153_3013.N1	19-NOV-2008 21:25:49	Straylight	83.500	7	19Bet Ori	0.10000	14000.	167	35153	No
163	GOM_NL__2PRFIN20081119_213003_00000922074_00029_35153_3014.N1	19-NOV-2008 21:30:03	Bright	91.500	30	46Eps Ori	1.6940	30000.	183	35153	No
164	GOM_NL__2PRFIN20081119_213443_00000572074_00029_35153_3015.N1	19-NOV-2008 21:34:43	Bright	57.000	13	87Alp Tau	0.86700	3800.0	114	35153	No
165	GOM_NL__2PRFIN20081119_214120_00000542074_00029_35153_3016.N1	19-NOV-2008 21:41:20	Bright	54.000	114	3Iot Aur	2.6930	4600.0	108	35153	No
166	GOM_NL__2PRFIN20081119_214544_00000522074_00029_35153_3017.N1	19-NOV-2008 21:45:44	Bright	52.000	6	13Alp Aur	0.080000	3400.0	104	35153	No
167	GOM_NL__2PRFIN20081119_214724_00000702074_00029_35153_3018.N1	19-NOV-2008 21:47:24	Bright	70.000	107	37The Aur	2.6490	11000.	140	35153	No
168	GOM_NL__2PRFIN20081119_220629_00000472074_00029_35153_3019.N1	19-NOV-2008 22:06:29	Bright	46.500	174	52Psi UMa	3.0040	4400.0	93	35153	No
169	GOM_NL__2PRFIN20081119_221540_00000542074_00029_35153_3020.N1	19-NOV-2008 22:15:40	Bright	54.000	96	68Del Leo	2.5600	9300.0	108	35153	No
170	GOM_NL__2PRFIN20081119_221814_000001002074_00029_35153_3021.N1	19-NOV-2008 22:18:14	Twilight_stray	100.00	51	41Gam1Leo	2.0100	4500.0	200	35153	No
171	GOM_NL__2PRFIN20081119_224938_00000722074_00030_35154_3039.N1	19-NOV-2008 22:49:38	Dark	71.500	117	Pi Pup	2.7060	3800.0	143	35154	No
172	GOM_NL__2PRFIN20081119_225342_00000742074_00030_35154_3040.N1	19-NOV-2008 22:53:42	Dark	73.500	23	21Eps CMa	1.5020	26000.	147	35154	No
173	GOM_NL__2PRFIN20081119_225601_00000932074_00030_35154_3041.N1	19-NOV-2008 22:56:01	Straylight	93.000	179	24Omi2CMa	3.0320	24000.	186	35154	No
174	GOM_NL__2PRFIN20081119_230121_00000962074_00030_35154_3042.N1	19-NOV-2008 23:01:21	Straylight	96.000	47	2Bet CMa	1.9760	28000.	192	35154	No
175	GOM_NL__2PRFIN20081119_230624_00000752074_00030_35154_3043.N1	19-NOV-2008 23:06:24	Straylight	75.000	7	19Bet Ori	0.10000	14000.	150	35154	No
176	GOM_NL__2PRFIN20081119_231038_00000882074_00030_35154_3044.N1	19-NOV-2008 23:10:38	Bright	87.500	30	46Eps Ori	1.6940	30000.	175	35154	No
177	GOM_NL__2PRFIN20081119_231518_00000592074_00030_35154_3045.N1	19-NOV-2008 23:15:18	Bright	58.500	13	87Alp Tau	0.86700	3800.0	117	35154	No
178	GOM_NL__2PRFIN20081119_232155_00000522074_00030_35154_3046.N1	19-NOV-2008 23:21:55	Bright	52.000	114	3Iot Aur	2.6930	4600.0	104	35154	No
179	GOM_NL__2PRFIN20081119_232619_00000752074_00030_35154_3047.N1	19-NOV-2008 23:26:19	Bright	75.000	6	13Alp Aur	0.080000	3400.0	150	35154	No
180	GOM_NL__2PRFIN20081119_232859_00000592074_00030_35154_3048.N1	19-NOV-2008 23:28:59	Bright	58.500	42	34Bet Aur	1.9000	10200.	117	35154	No
181	GOM_NL__2PRFIN20081119_234705_00000472074_00030_35154_3049.N1	19-NOV-2008 23:47:05	Bright	46.500	174	52Psi UMa	3.0040	4400.0	93	35154	No
182	GOM_NL__2PRFIN20081119_235617_00000522074_00030_35154_3050.N1	19-NOV-2008 23:56:17	Bright	51.500	96	68Del Leo	2.5600	9300.0	103	35154	No
183	GOM_NL__2PRFIN20081119_235851_000001002074_00030_35154_3051.N1	19-NOV-2008 23:58:51	Twilight_stray	100.00	51	41Gam1Leo	2.0100	4500.0	200	35154	No

3. Quality information per product

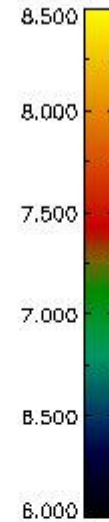
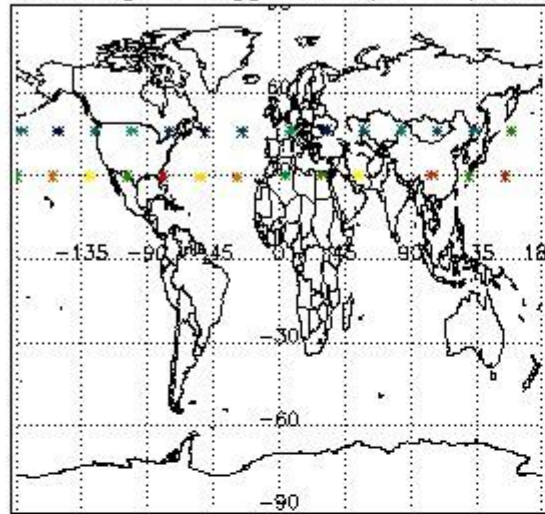
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

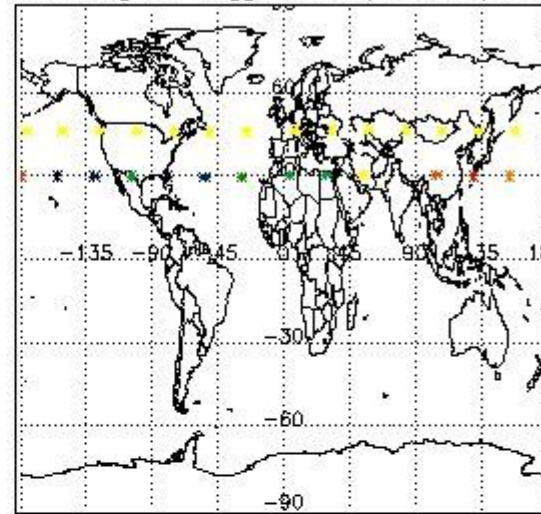


3.2 Plot quality information per product (world map)

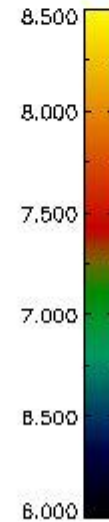
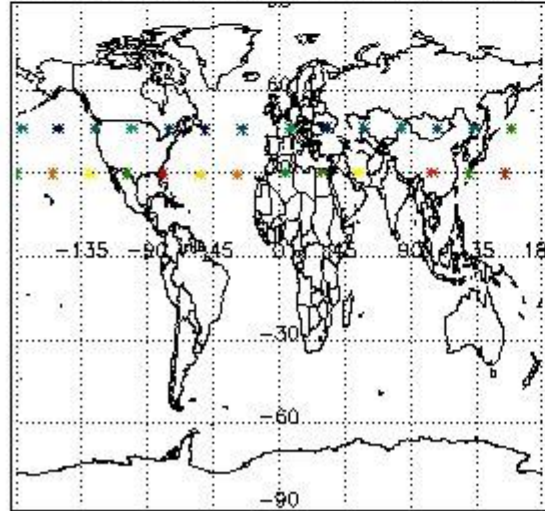
Percentage of flagged data per O3 profile



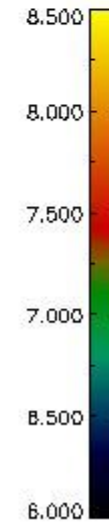
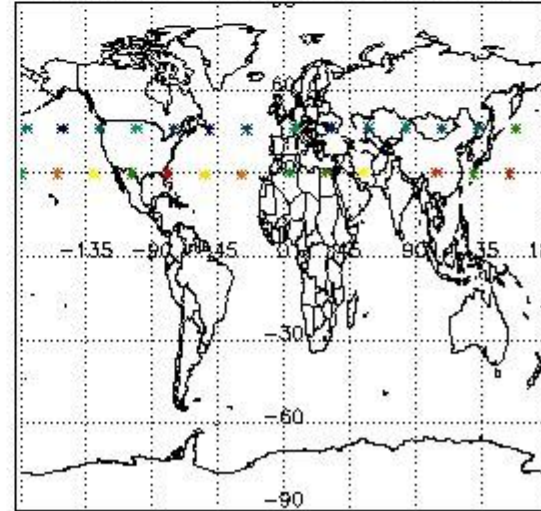
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

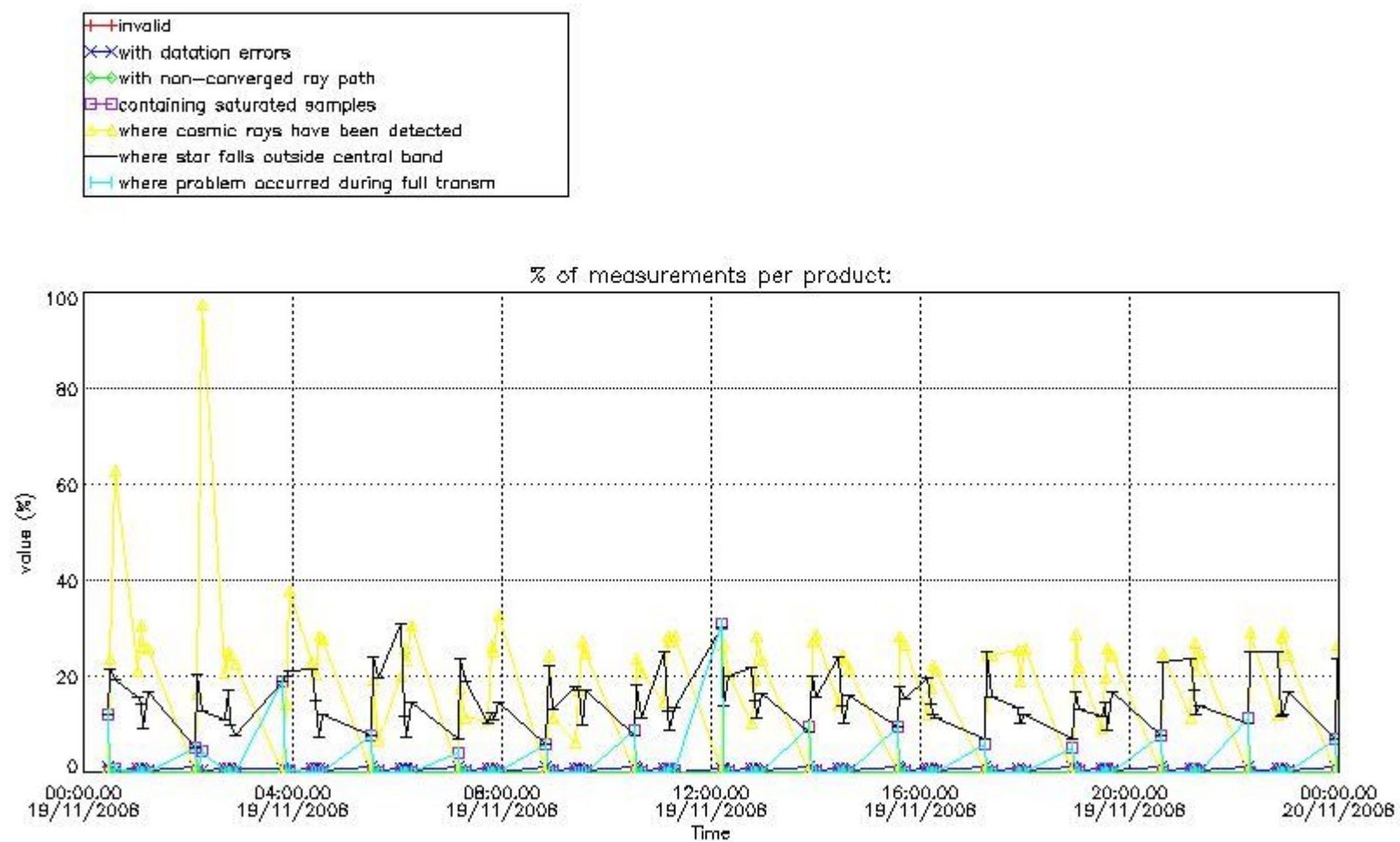


4. Level 1 quality information per product

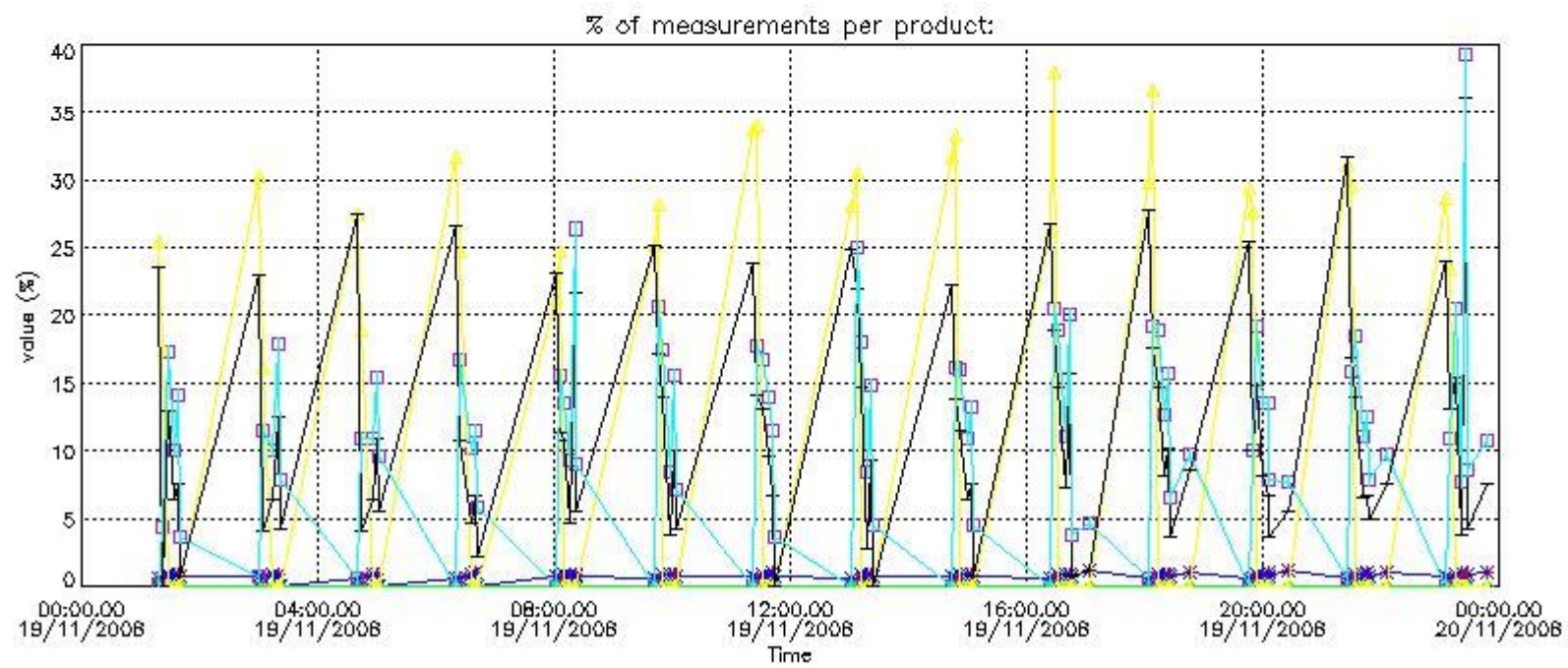
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

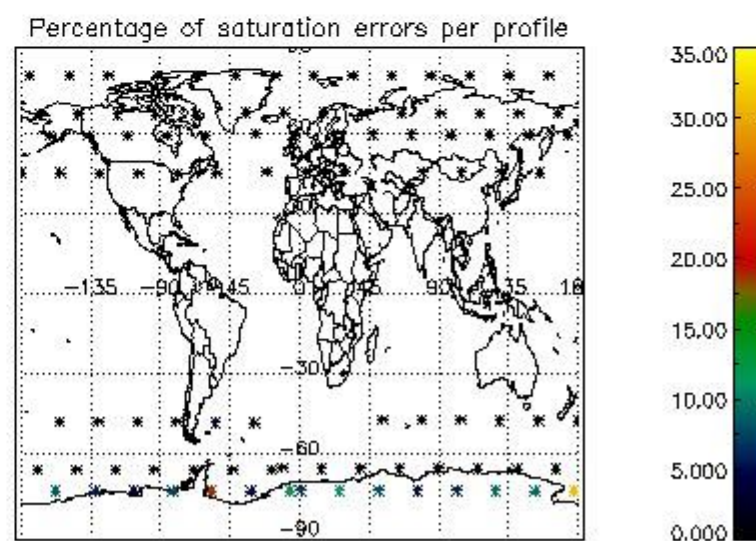
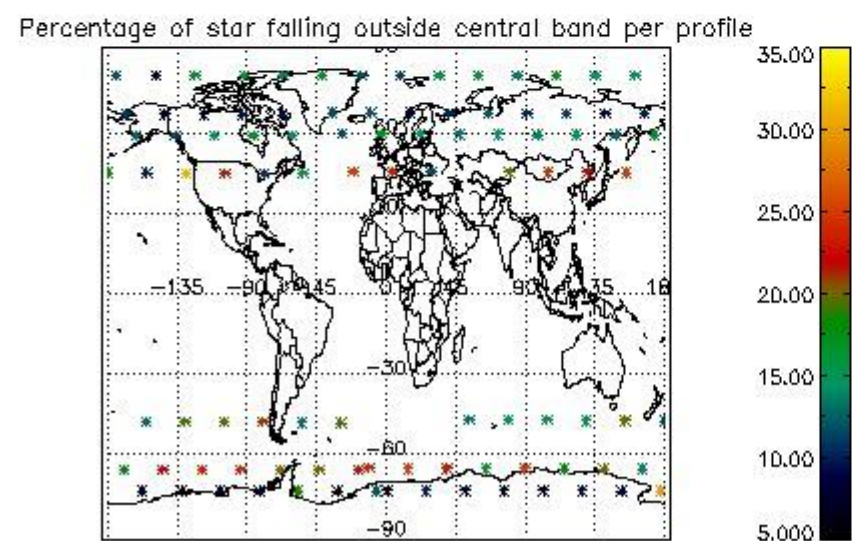
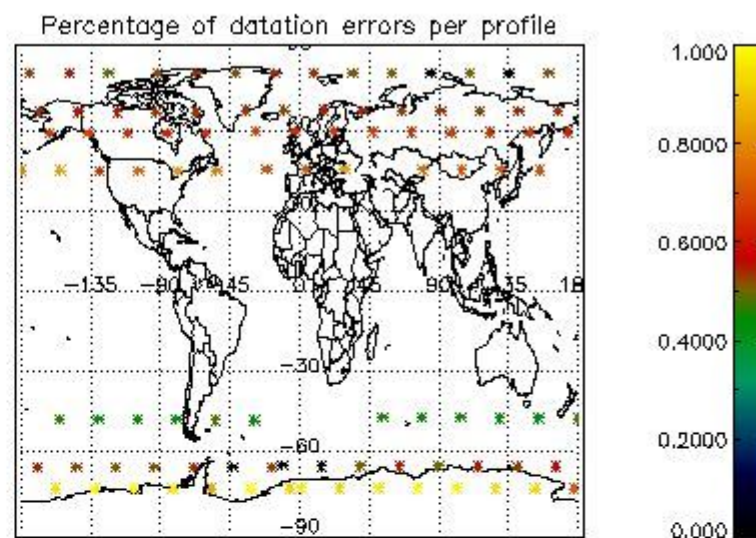
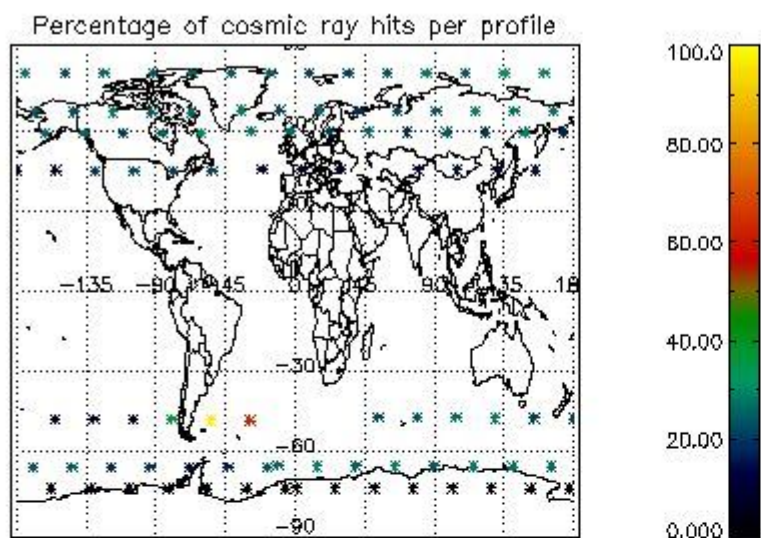


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

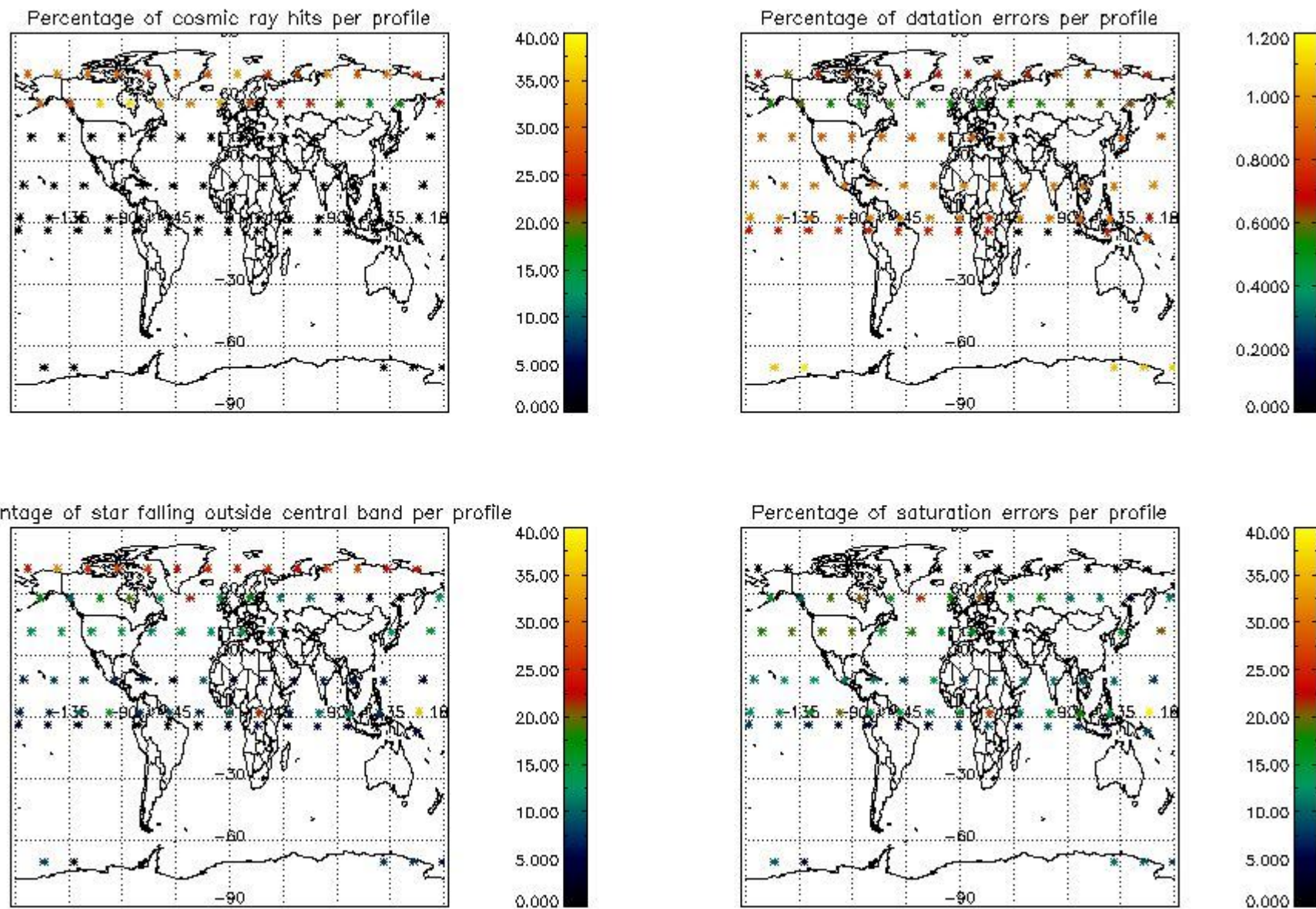


4.2 Plot quality information per product coming from level 1b processing (world map)

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

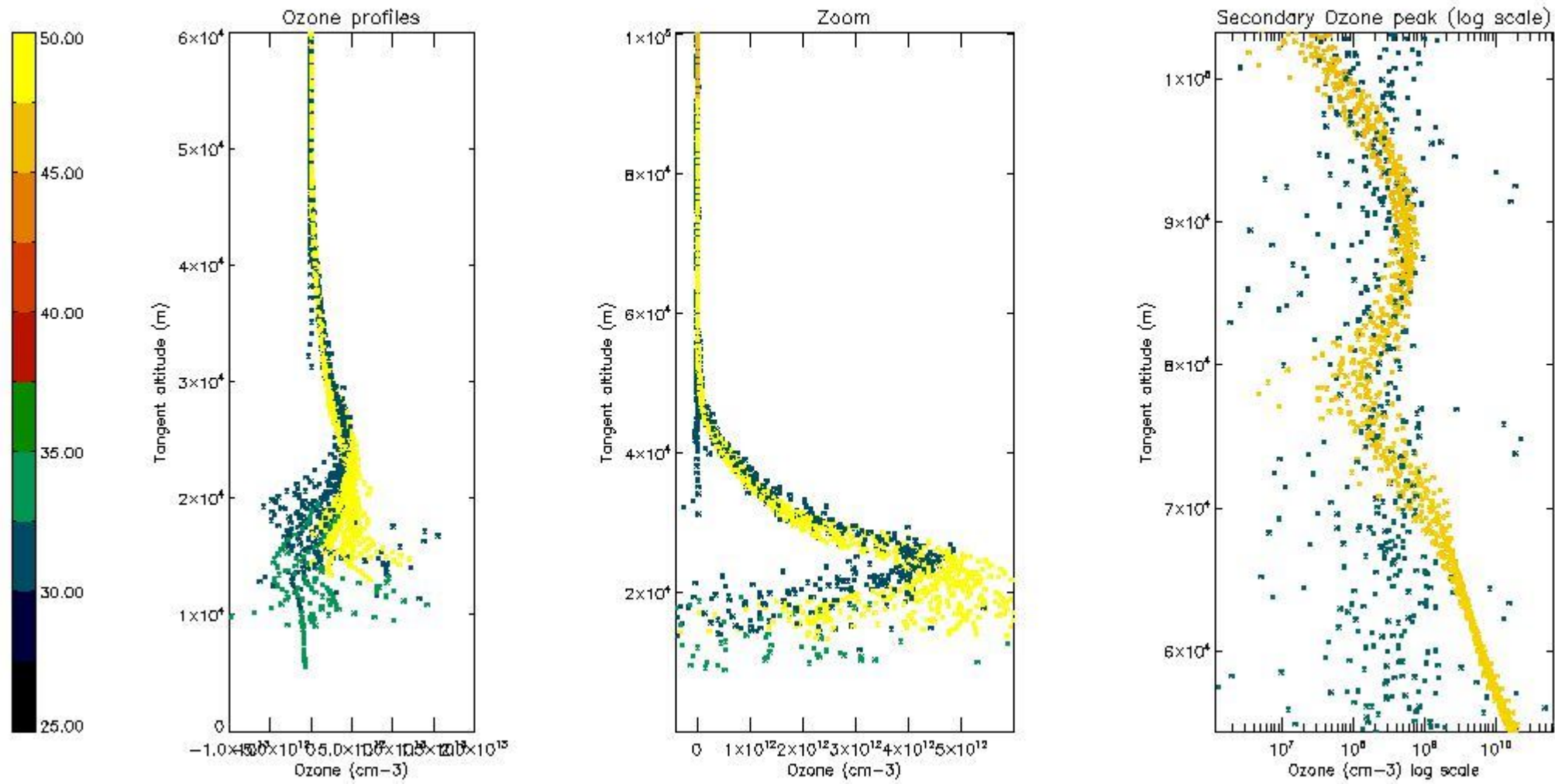
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	14
STD < 20	8

STD < 10	6
STD < 5	5

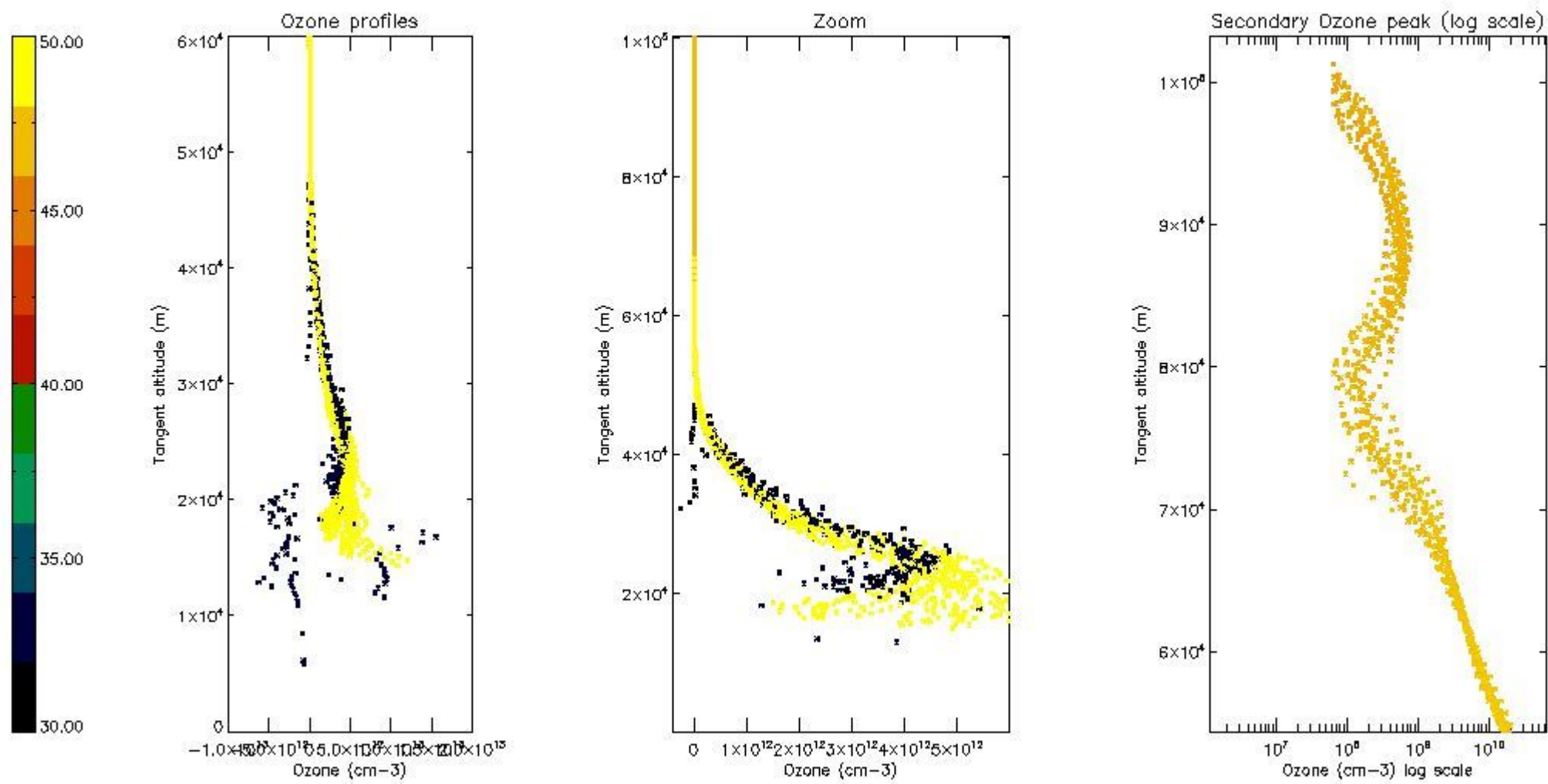
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



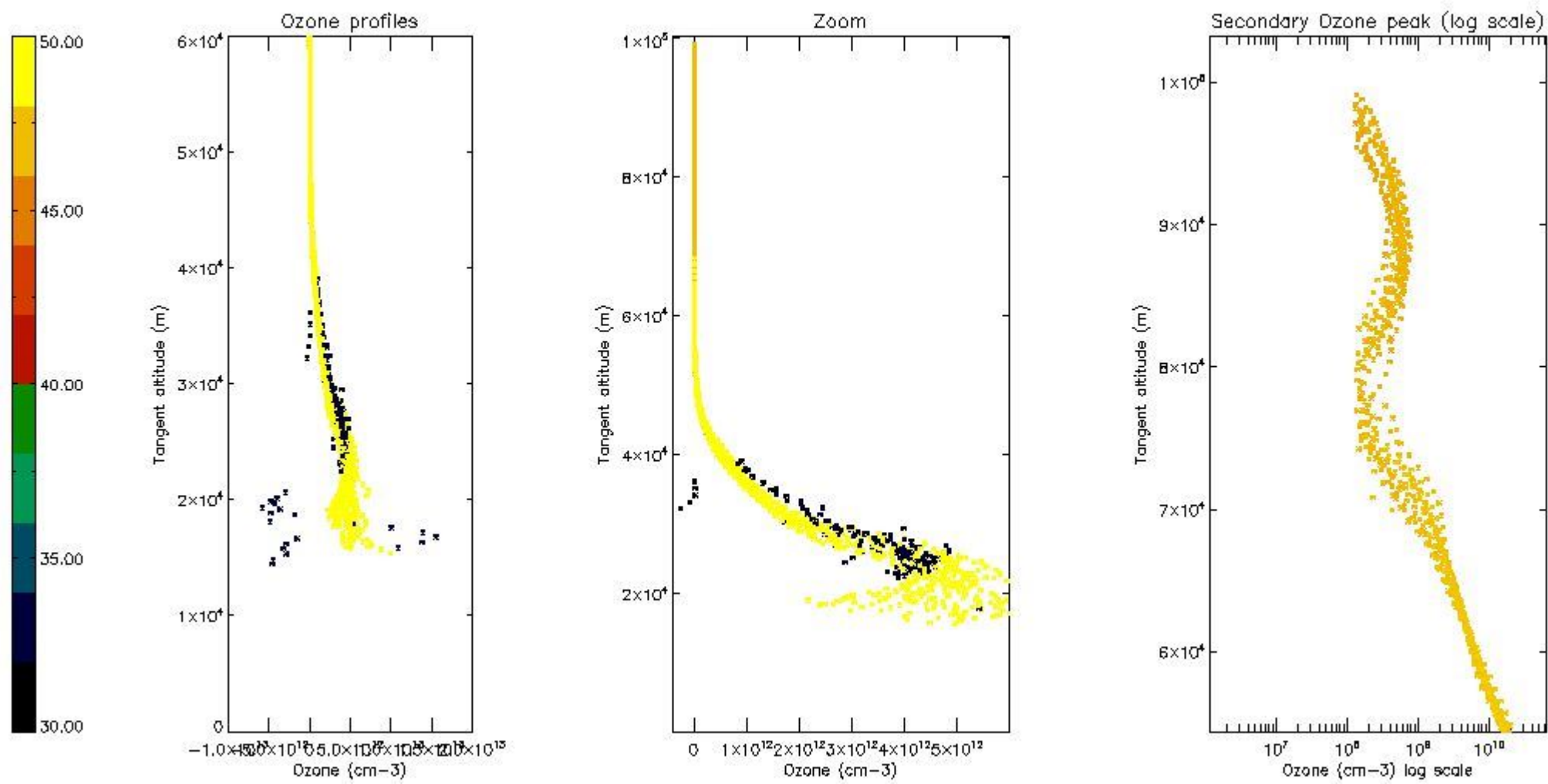
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



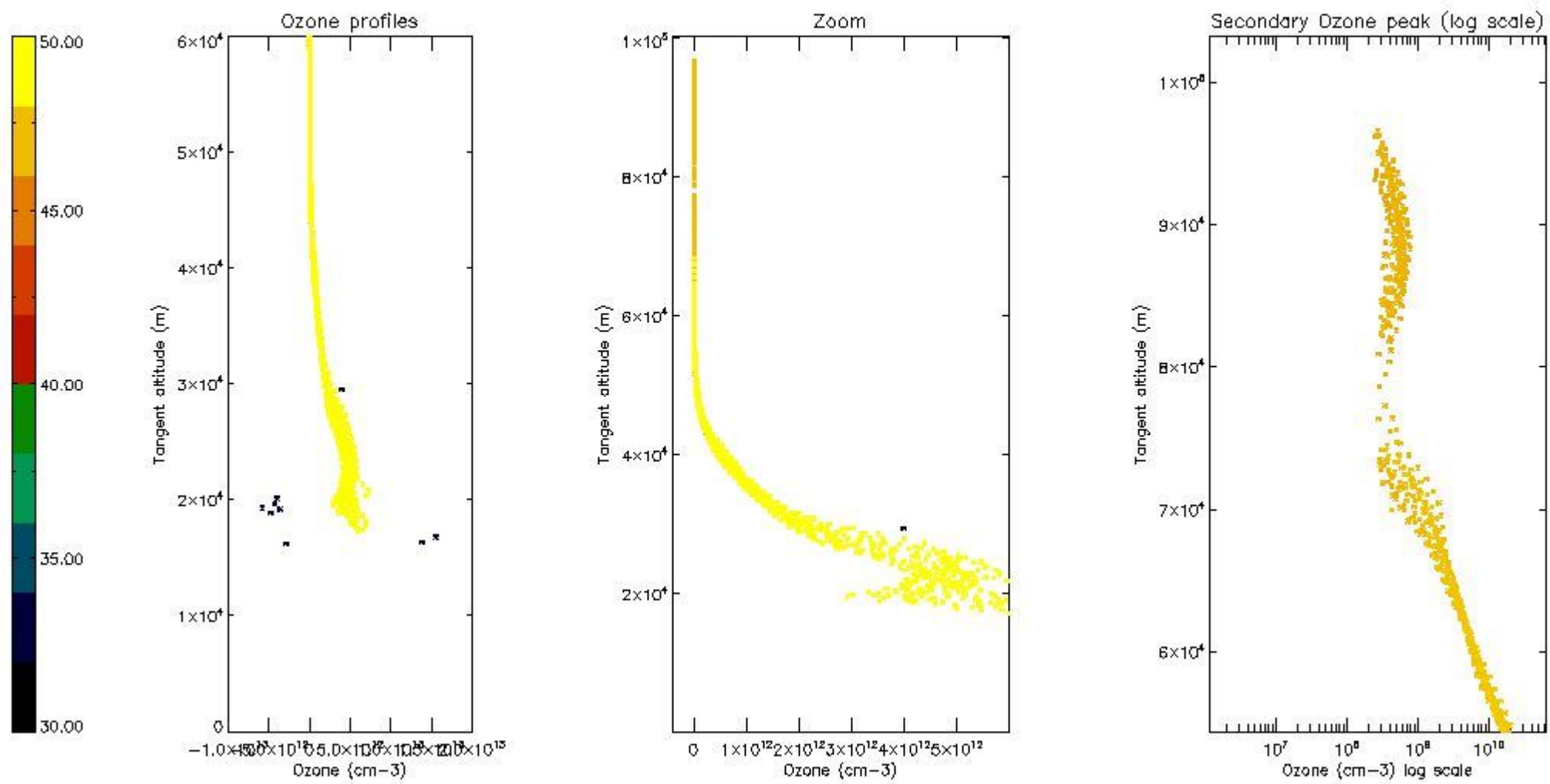
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



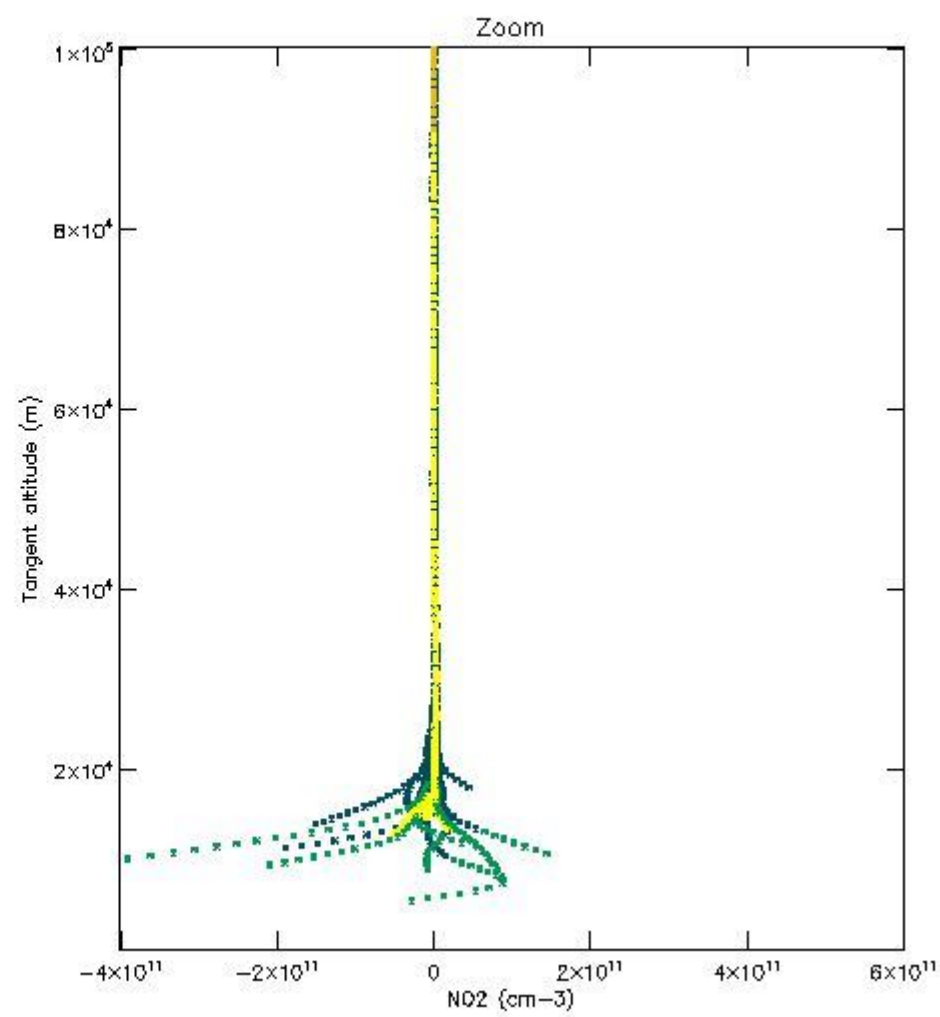
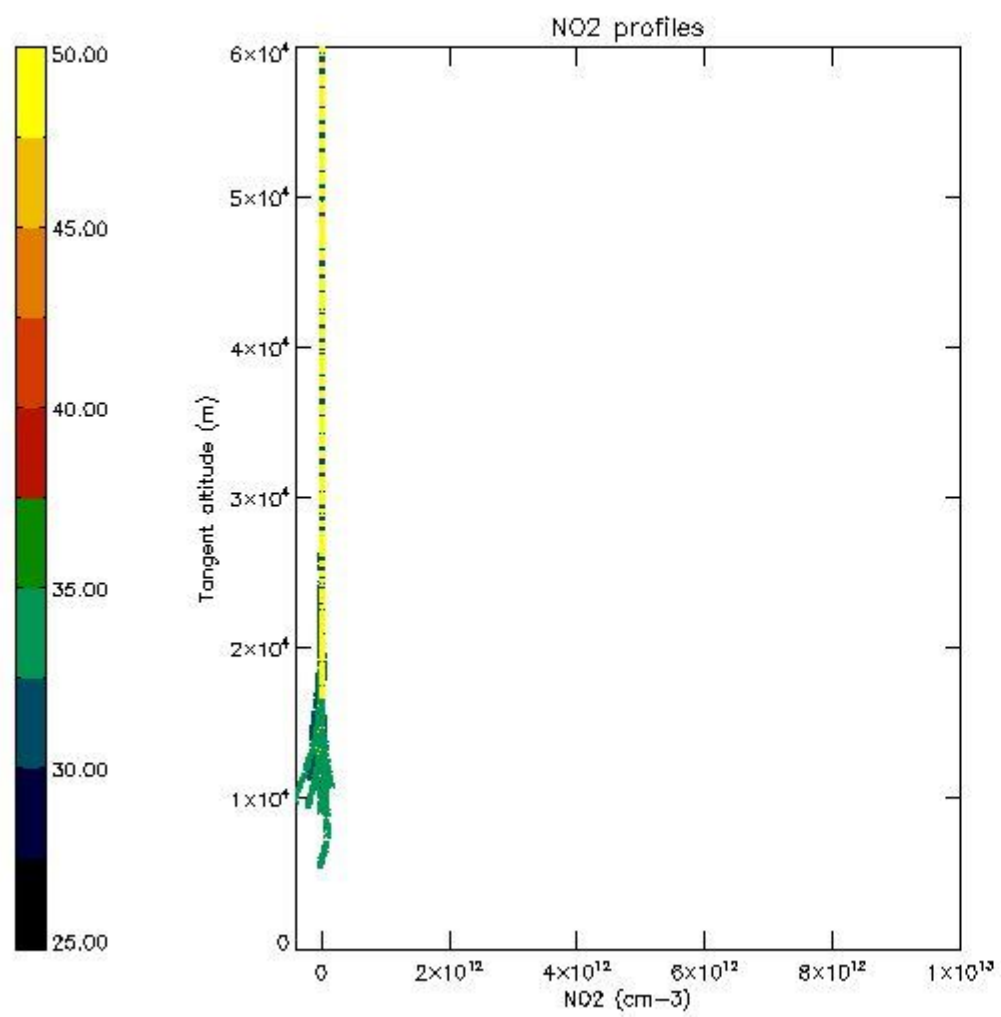
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



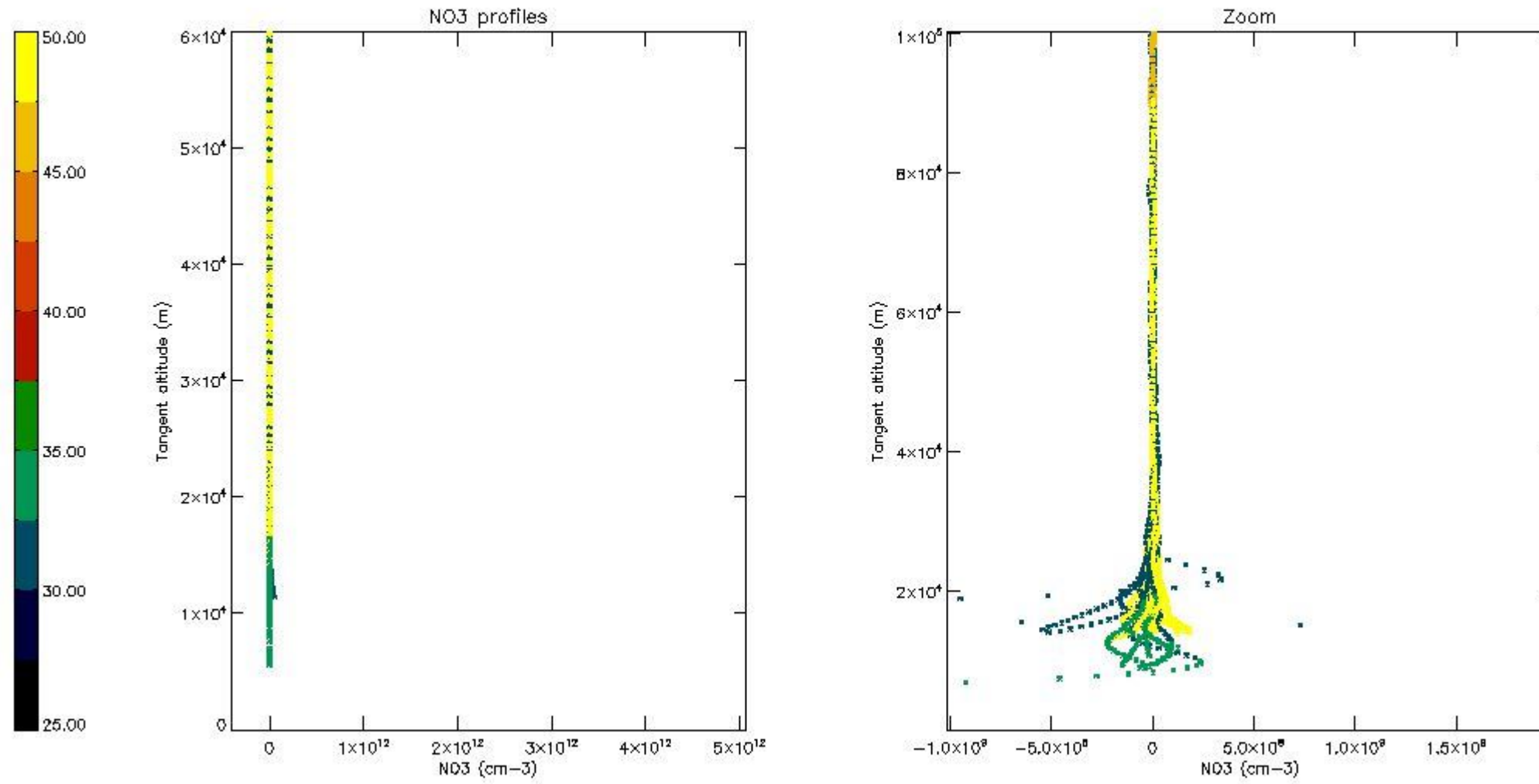
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

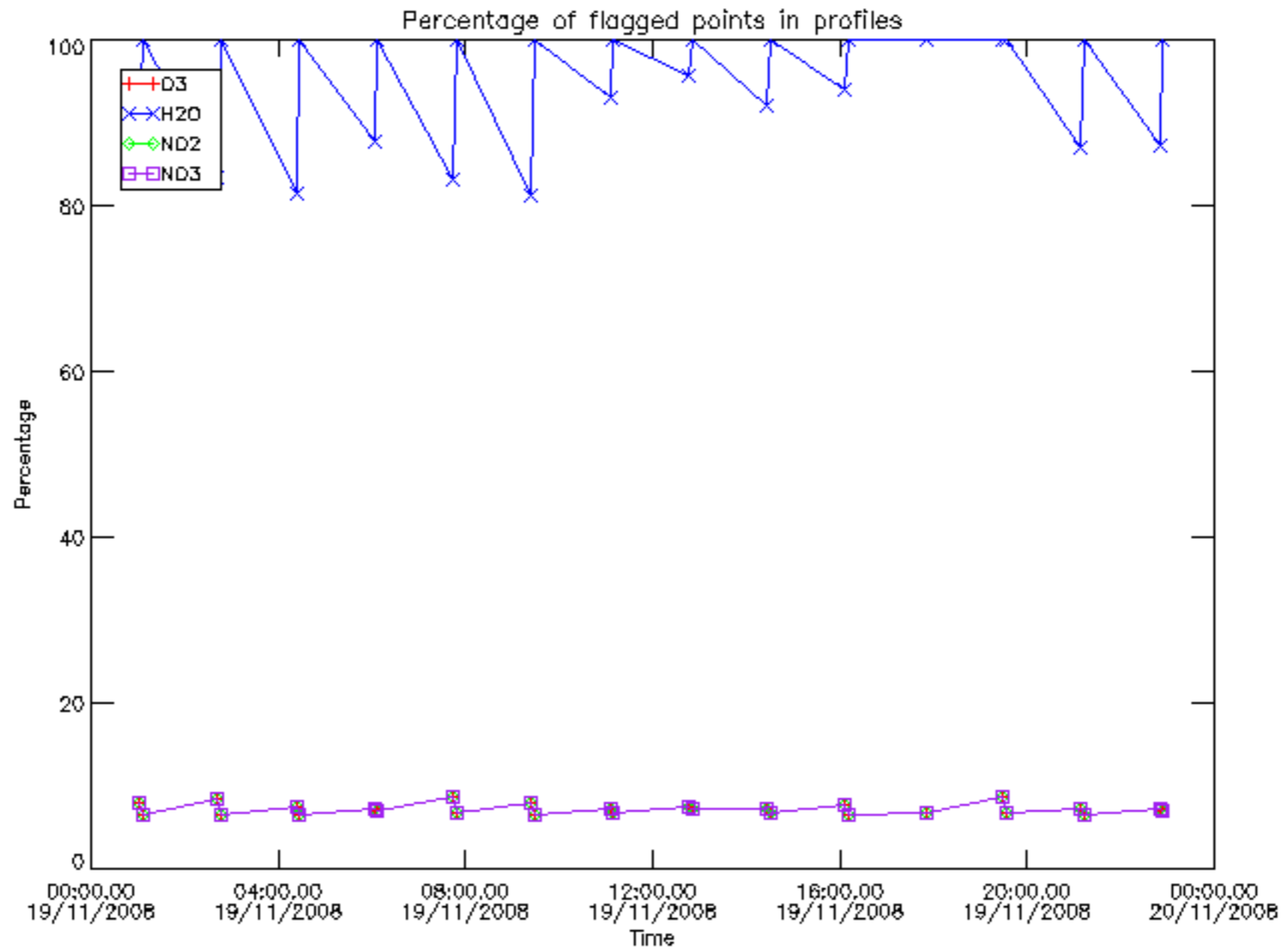
The colorbar represents the latitude.



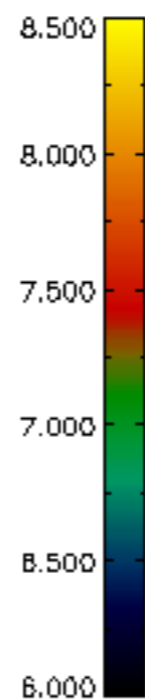
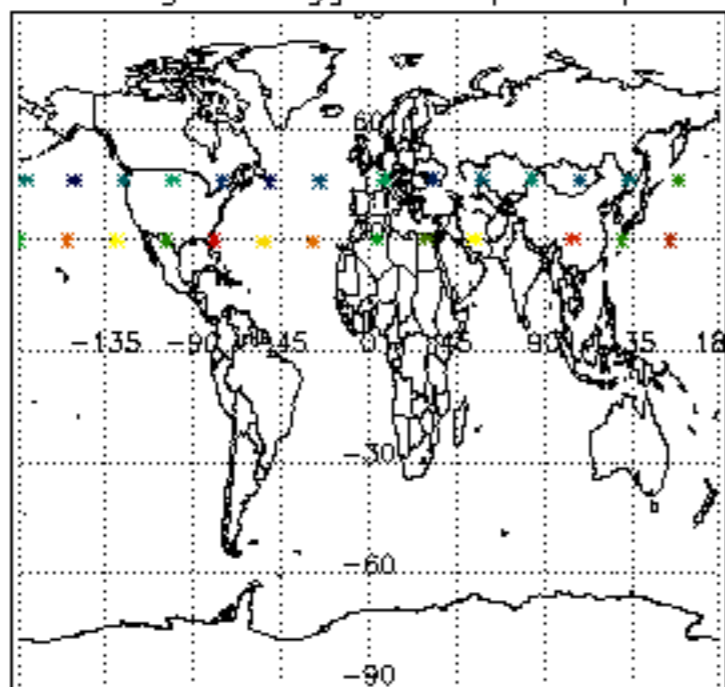
6. Auxiliary Data Files used for the production reported in section 2

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.

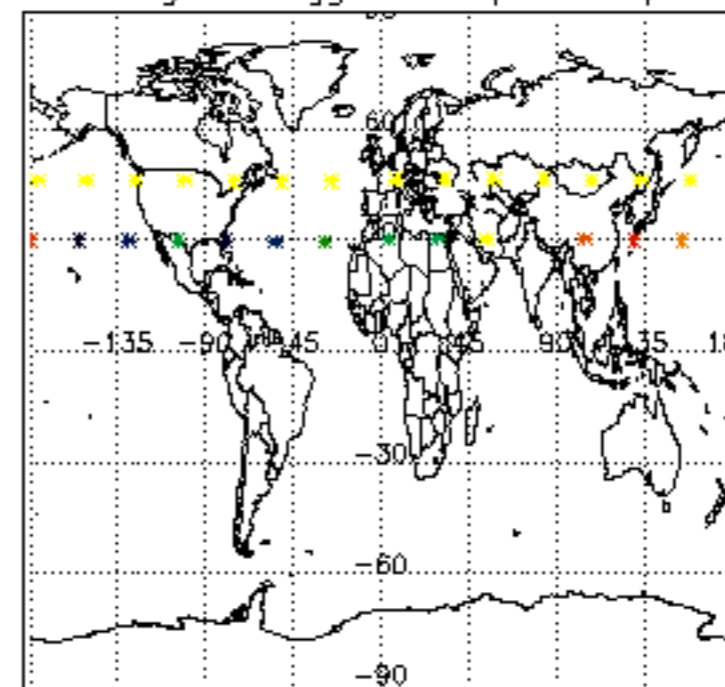
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	19-NOV-2008 00:27:47
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-NOV-2008 00:27:47
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-NOV-2008 00:27:47



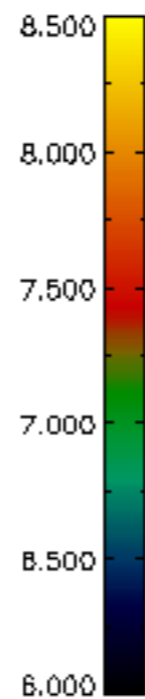
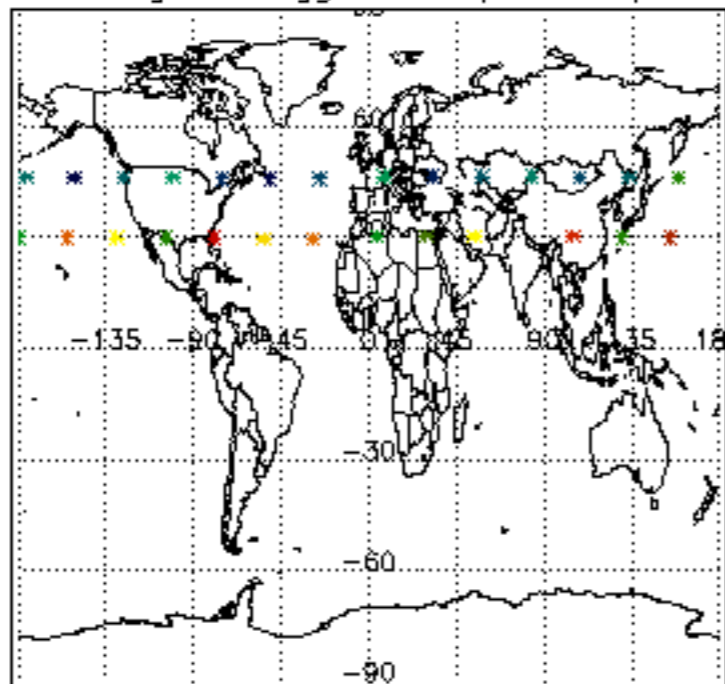
Percentage of flagged data per D3 profile



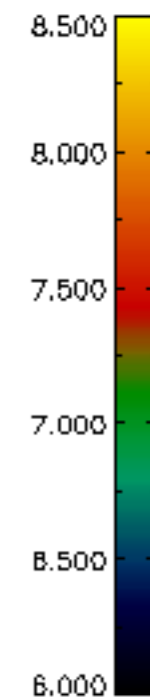
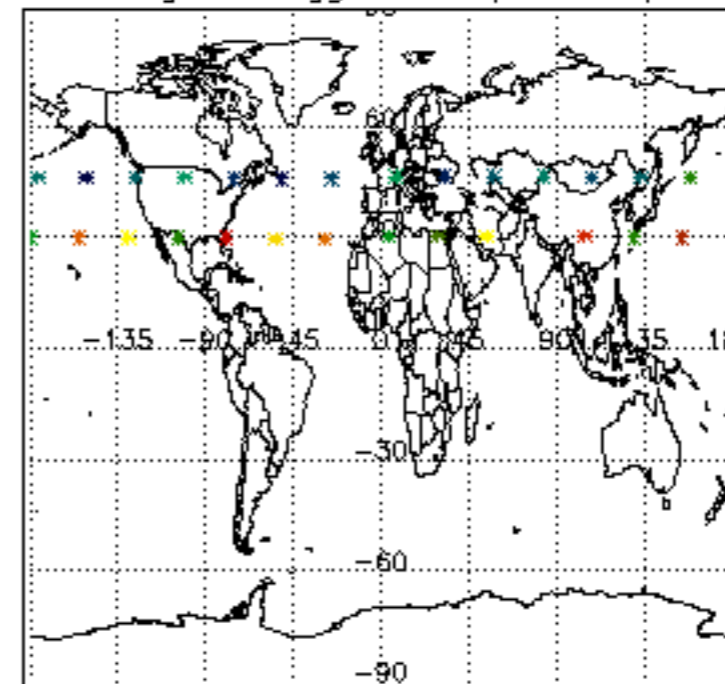
Percentage of flagged data per H2O profile

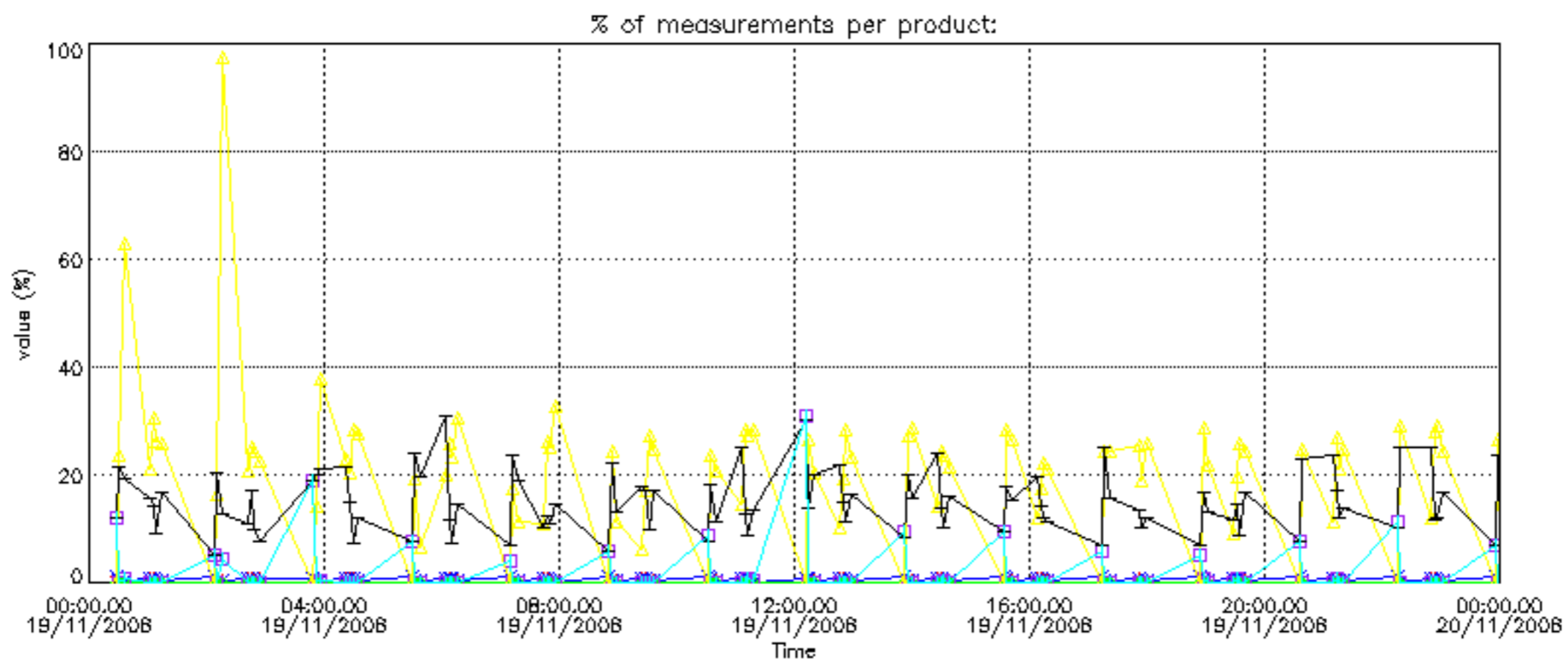


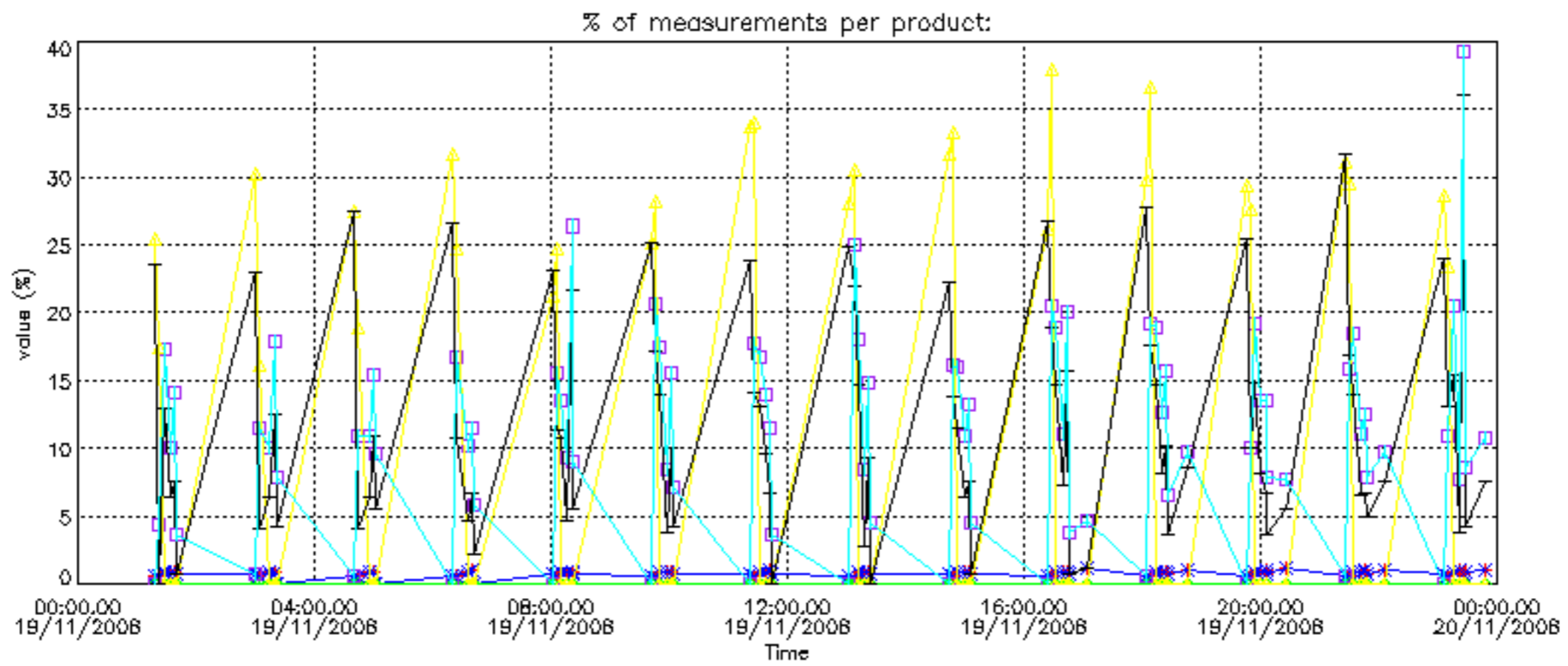
Percentage of flagged data per NO2 profile



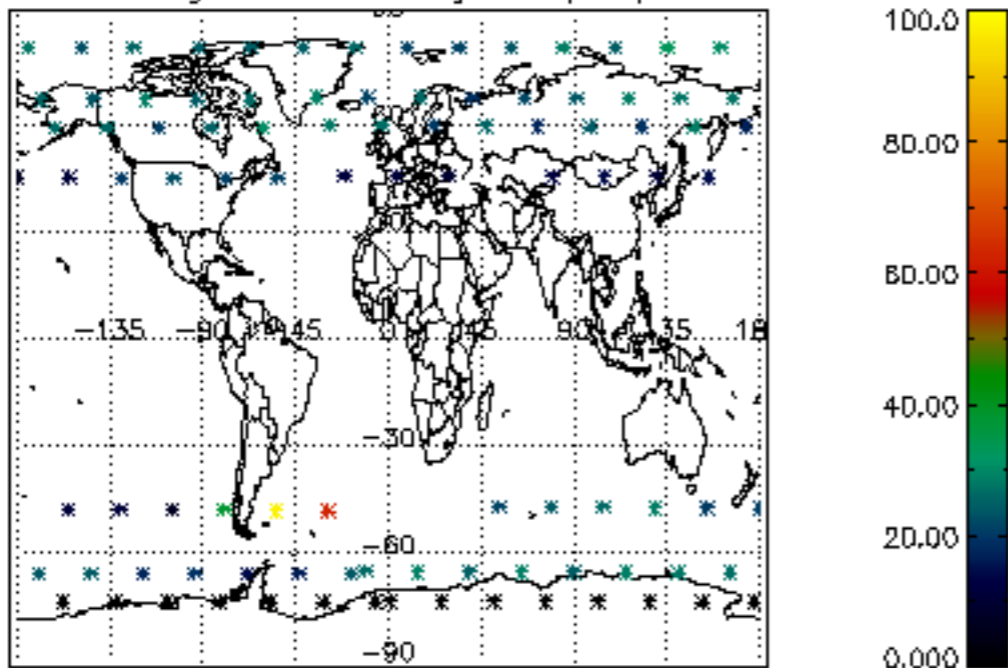
Percentage of flagged data per NO3 profile



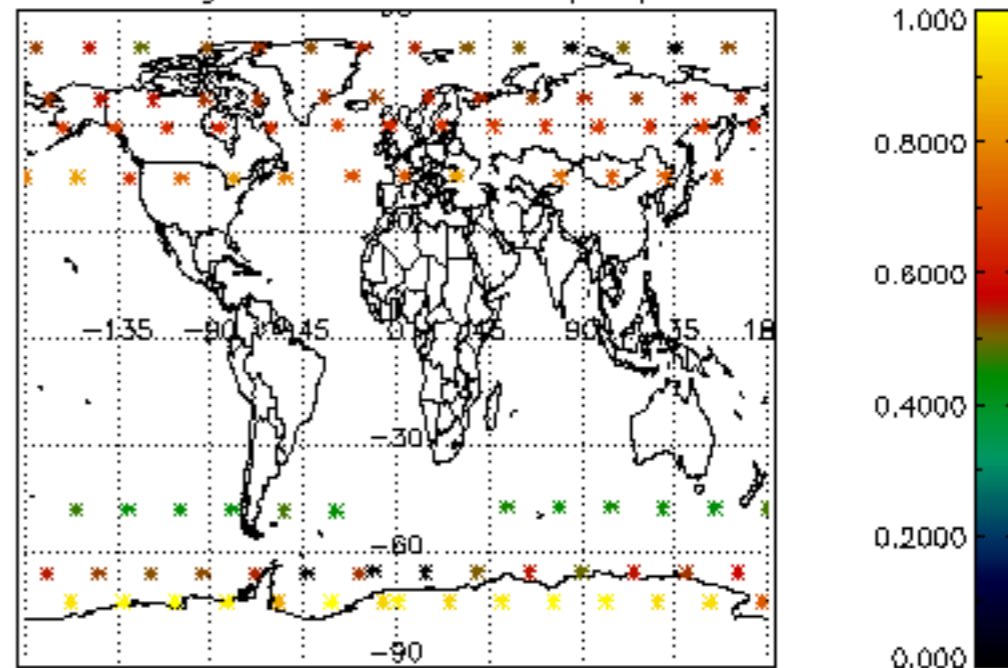




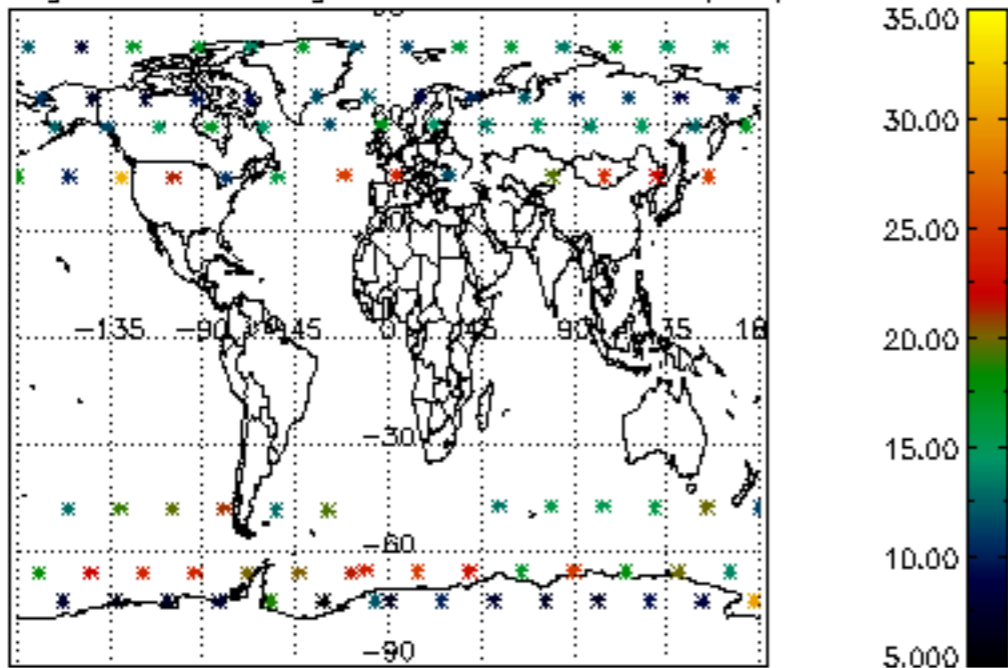
Percentage of cosmic ray hits per profile



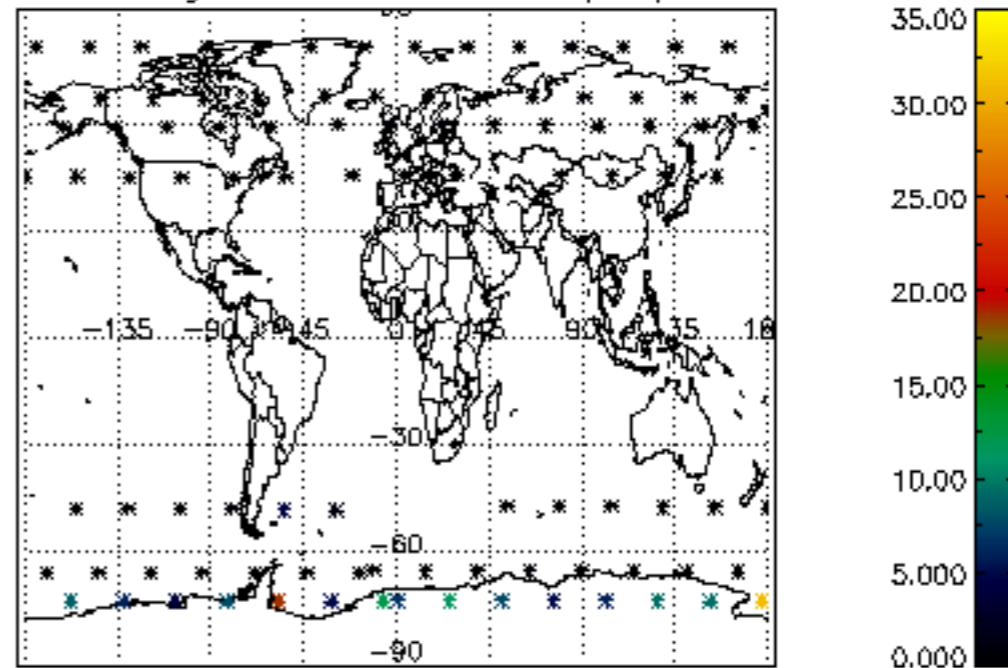
Percentage of datation errors per profile



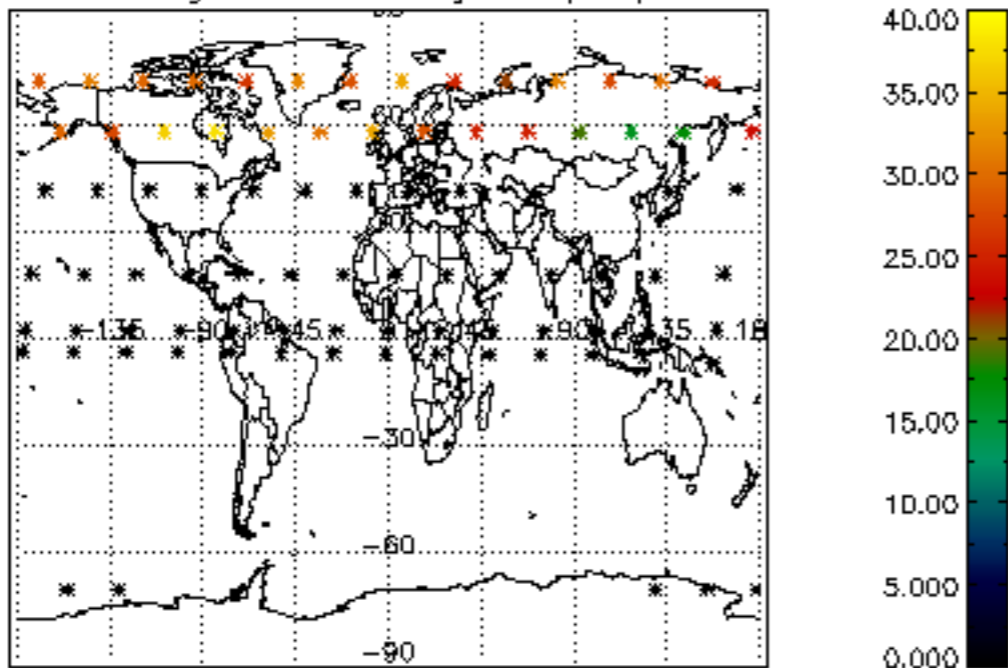
Percentage of star falling outside central band per profile



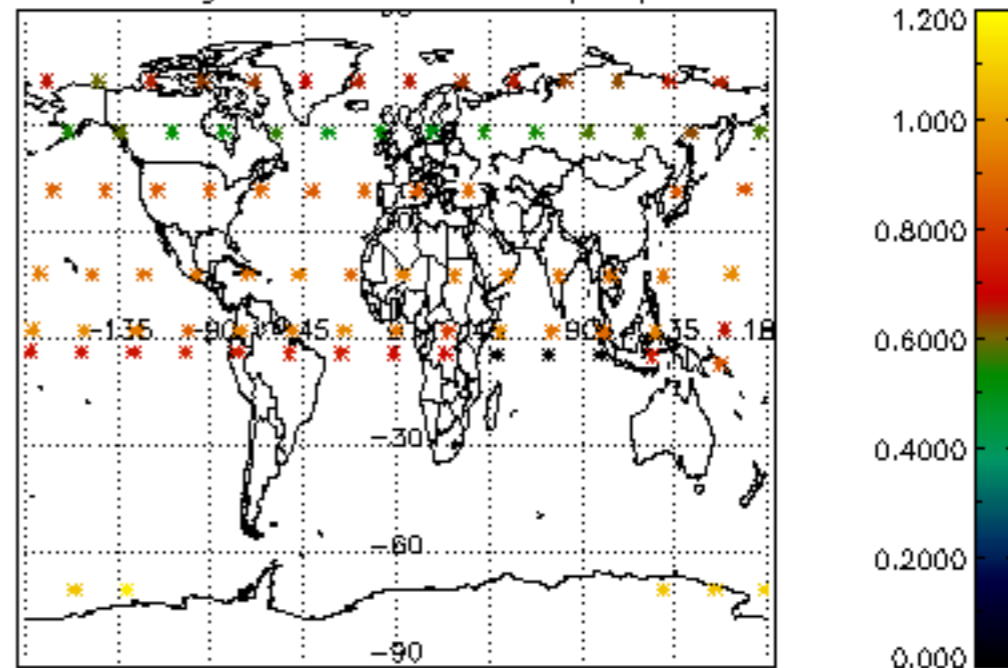
Percentage of saturation errors per profile



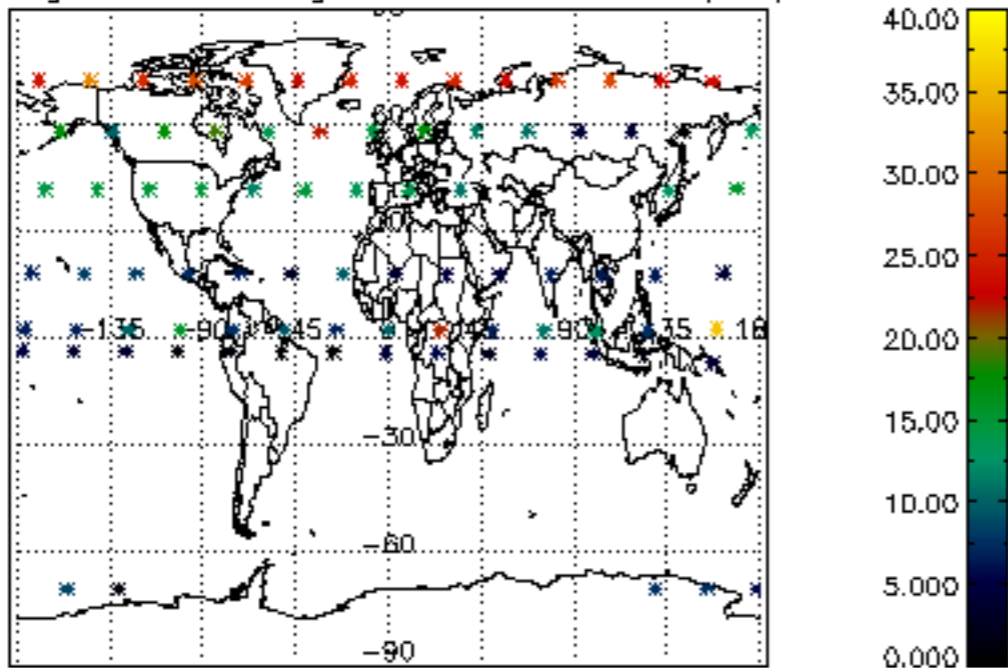
Percentage of cosmic ray hits per profile



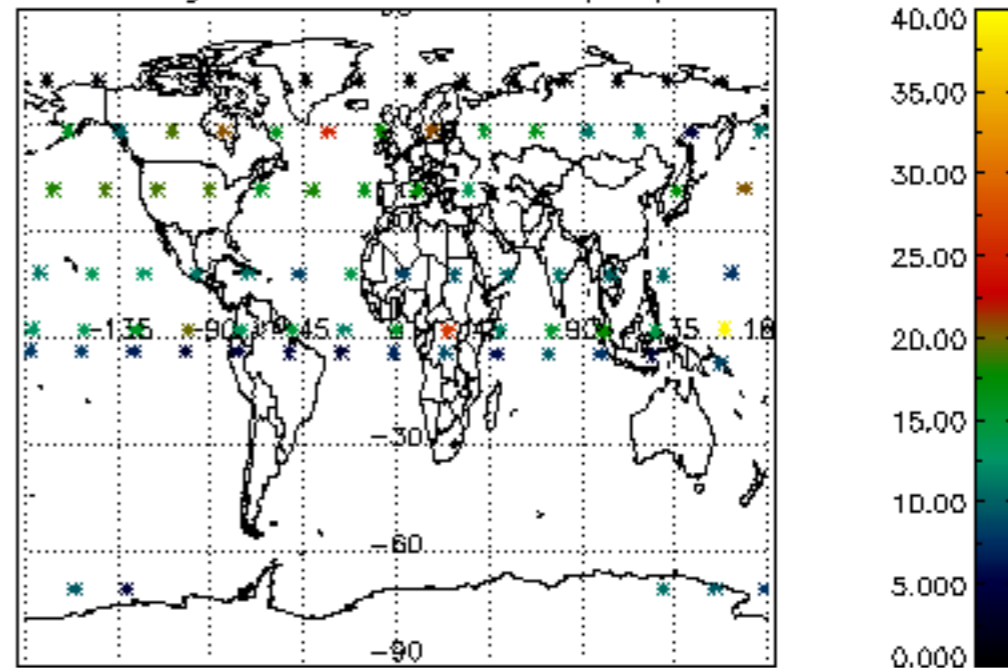
Percentage of datation errors per profile

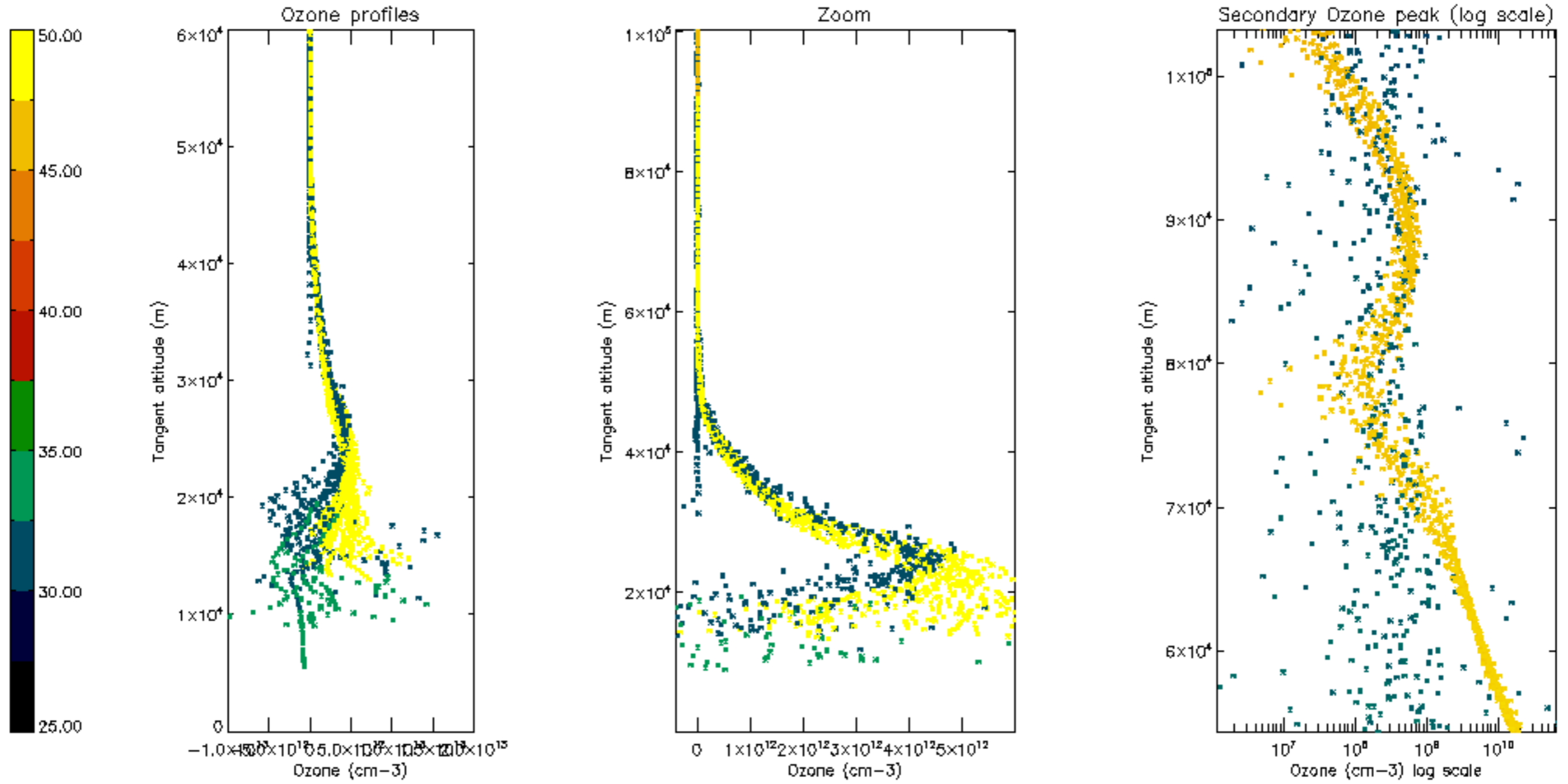


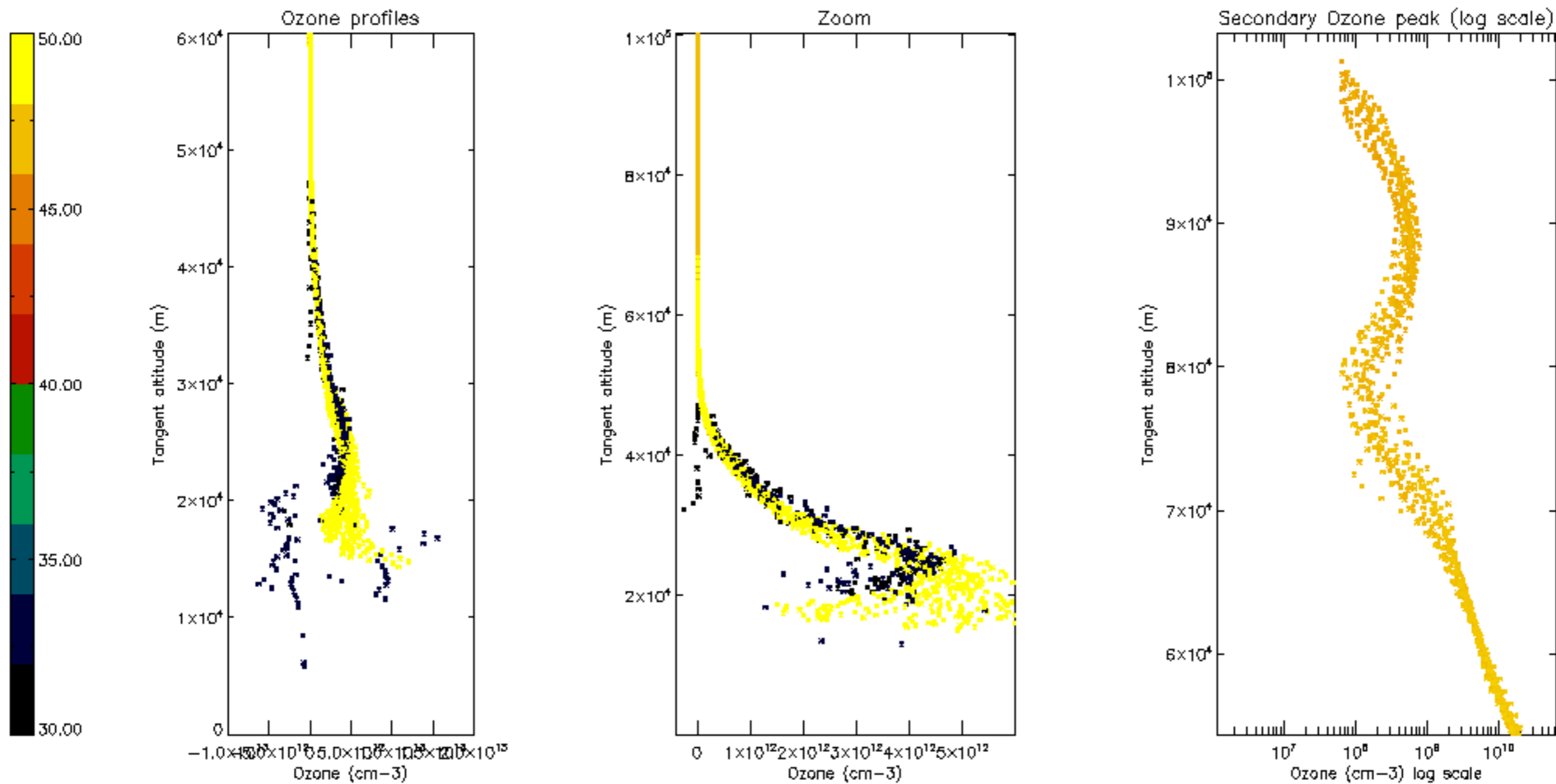
Percentage of star falling outside central band per profile

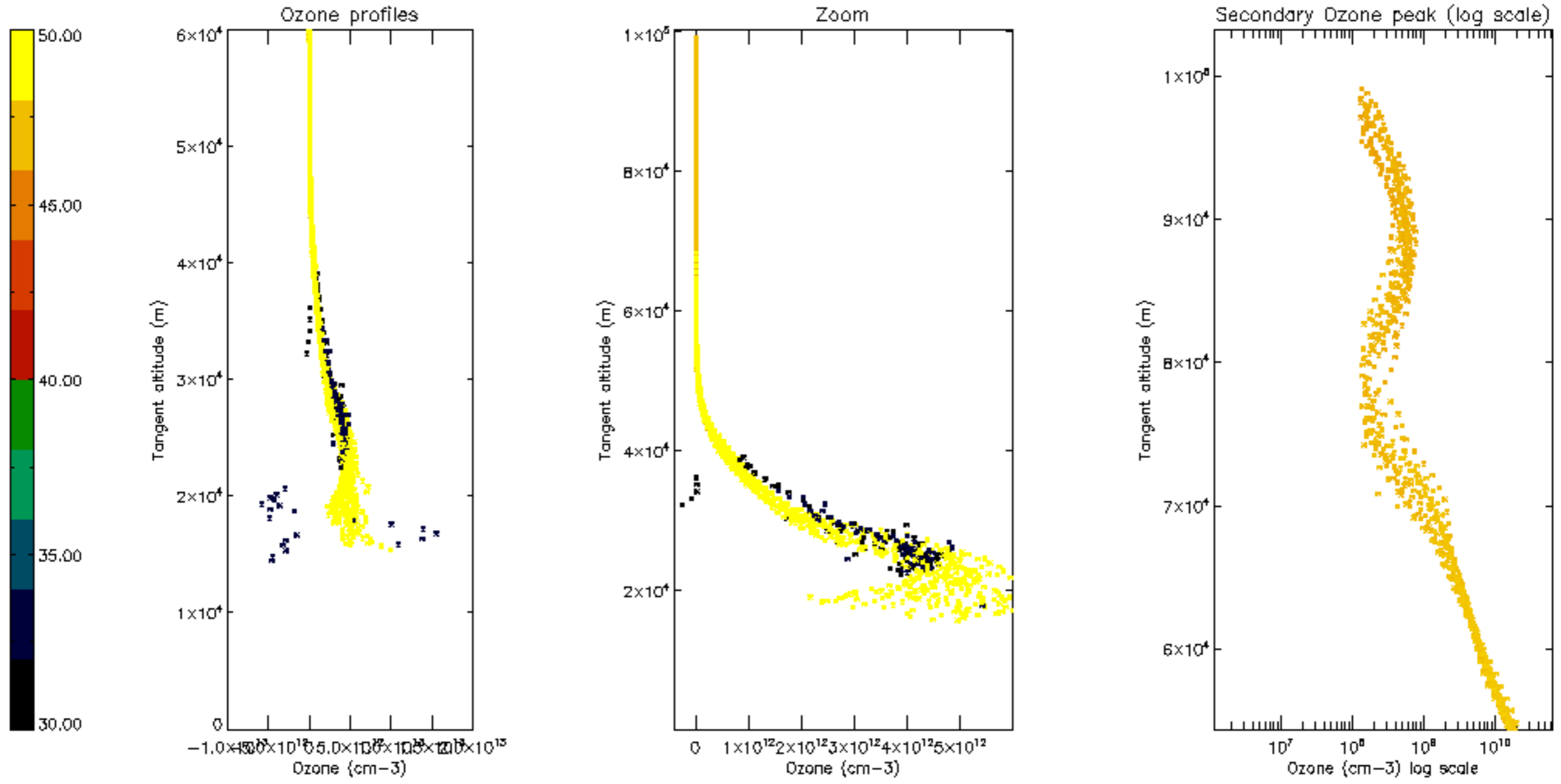


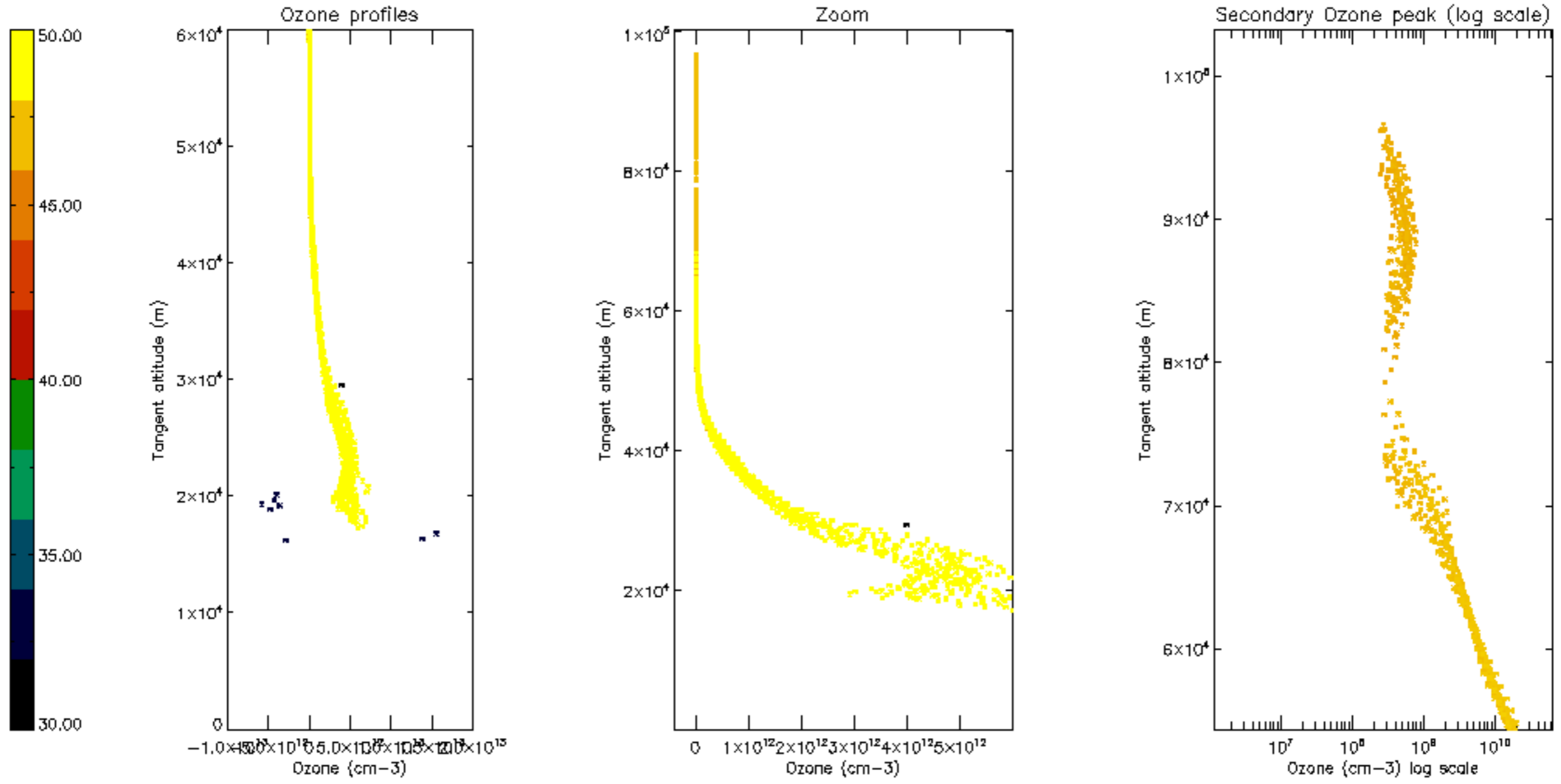
Percentage of saturation errors per profile

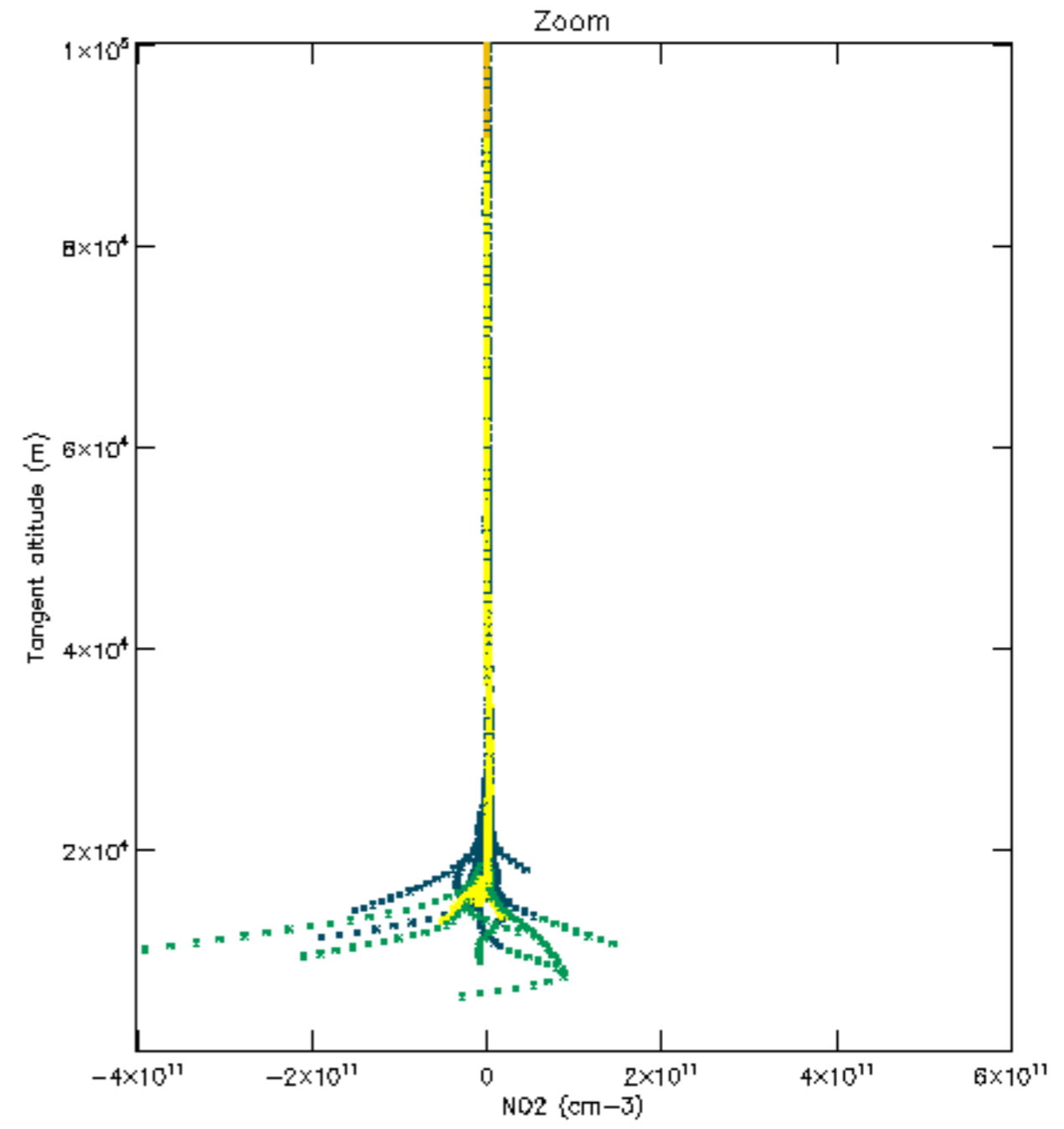
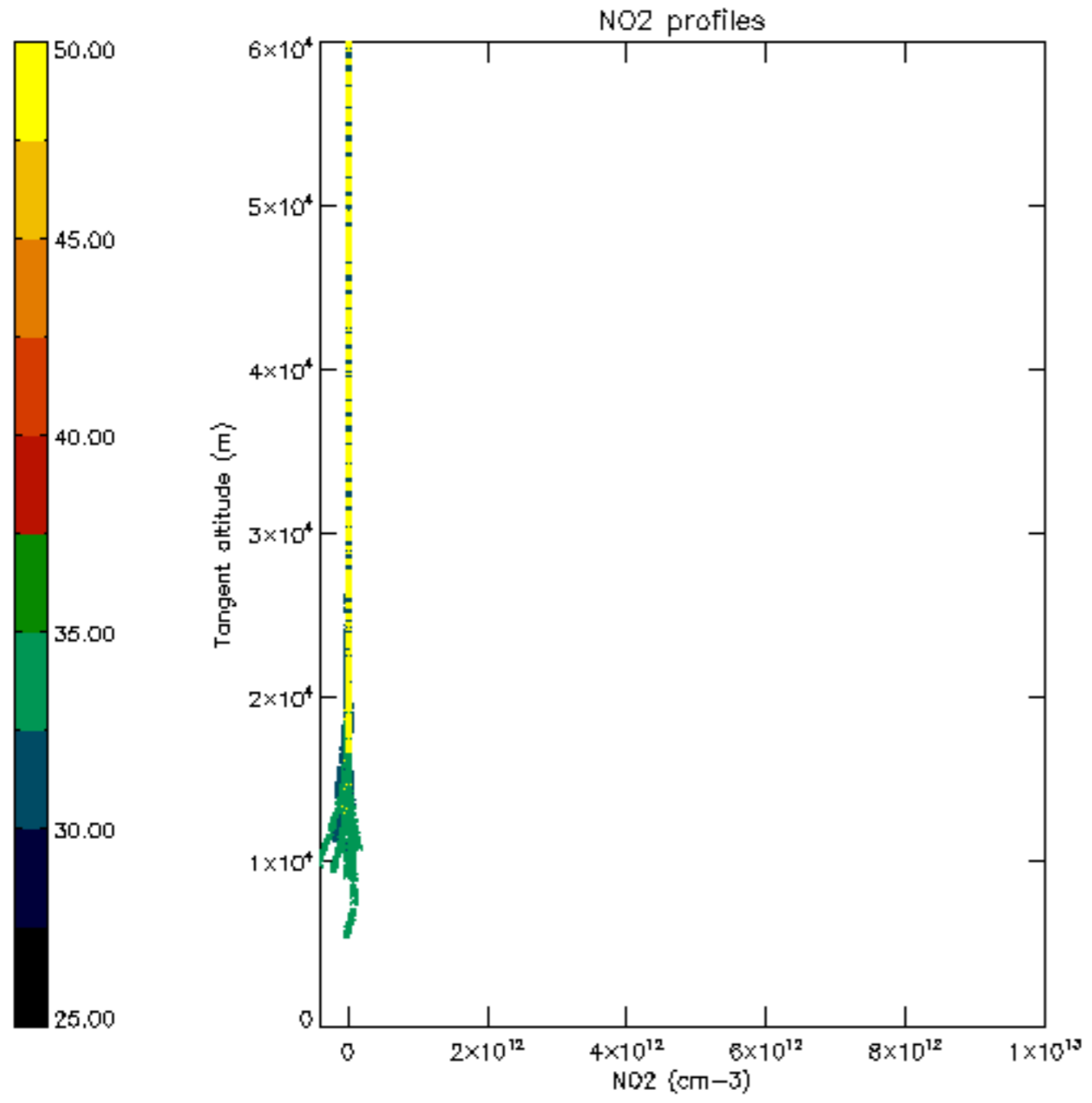


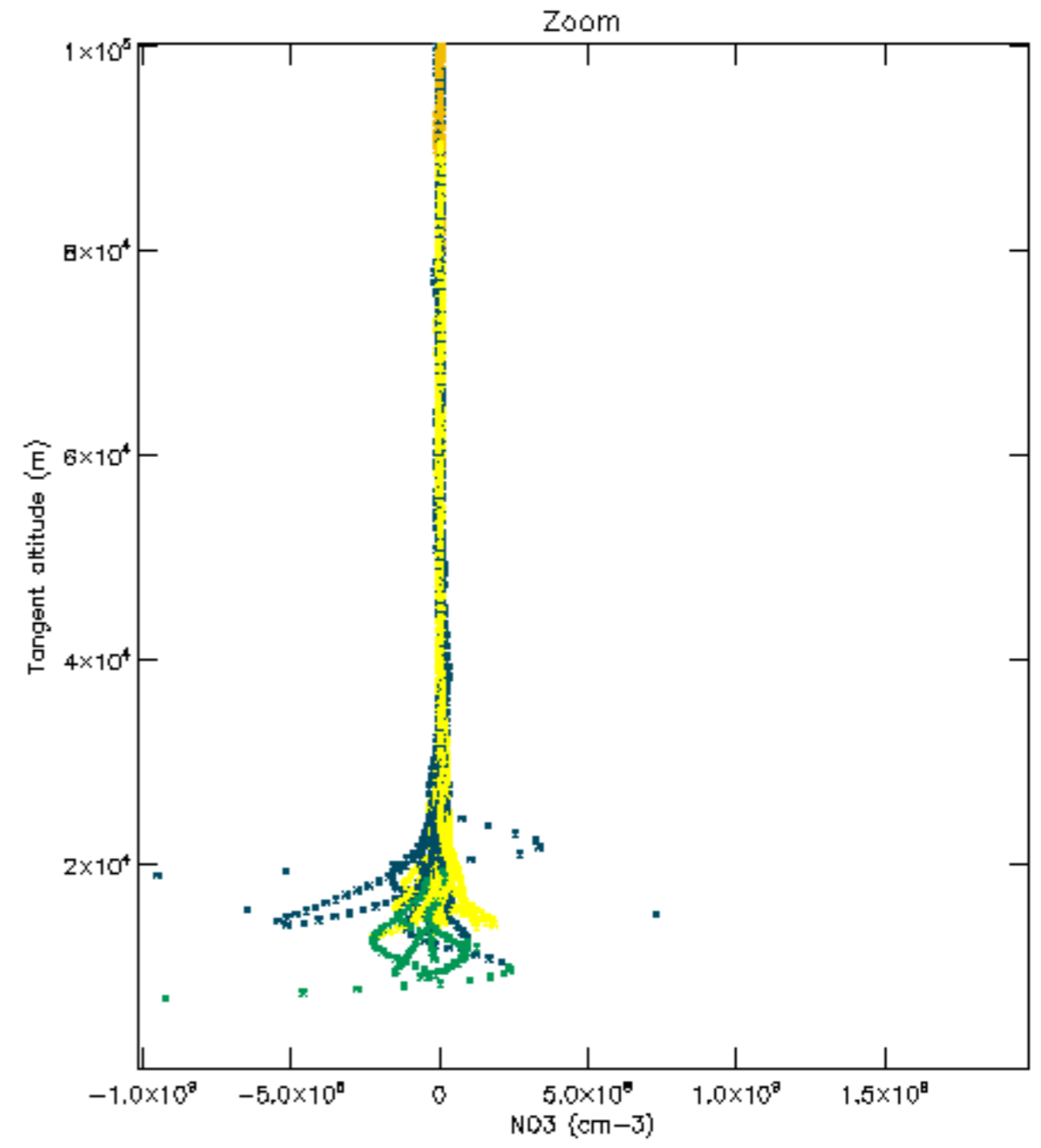
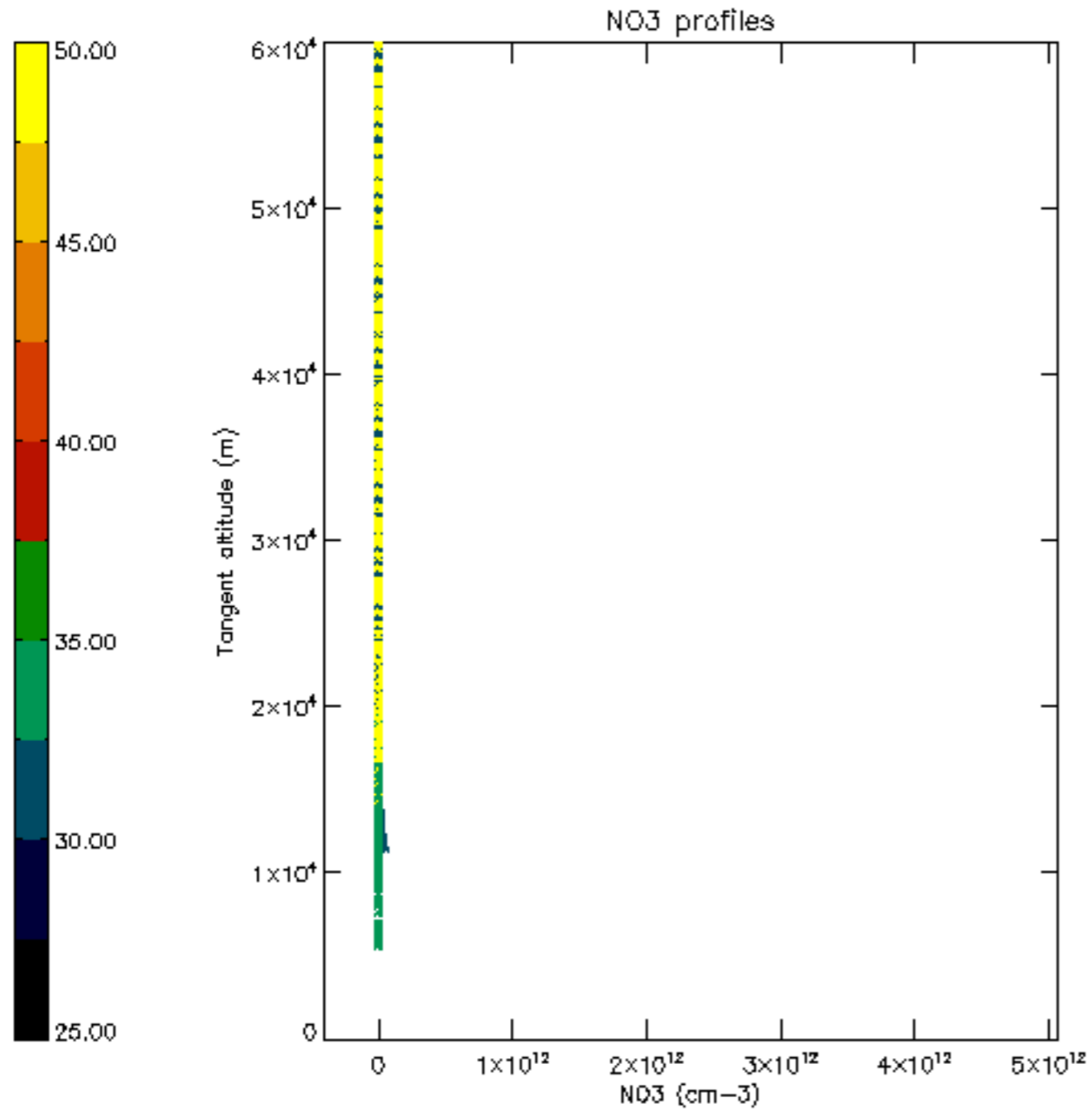


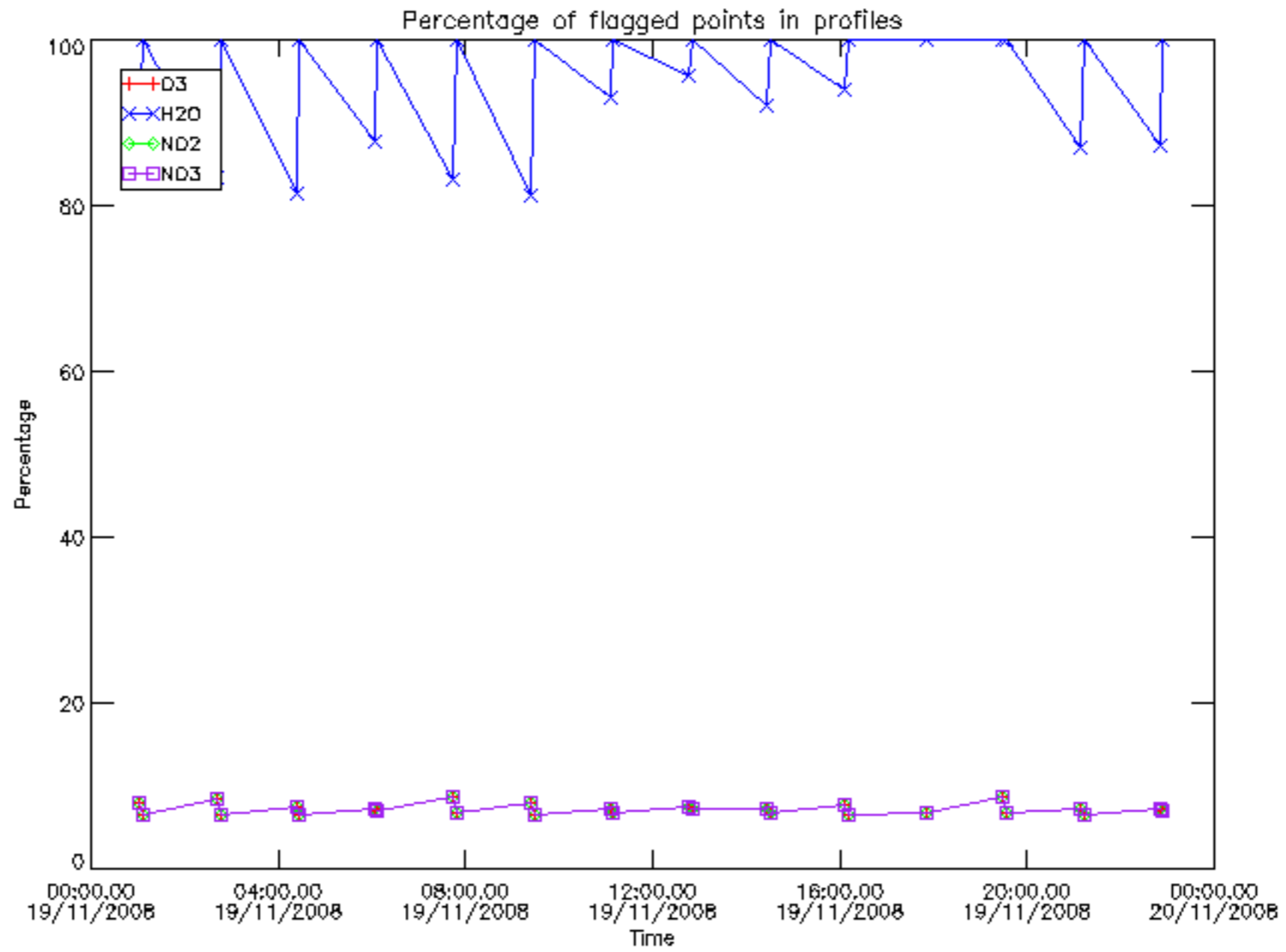




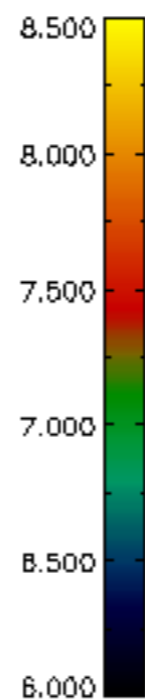
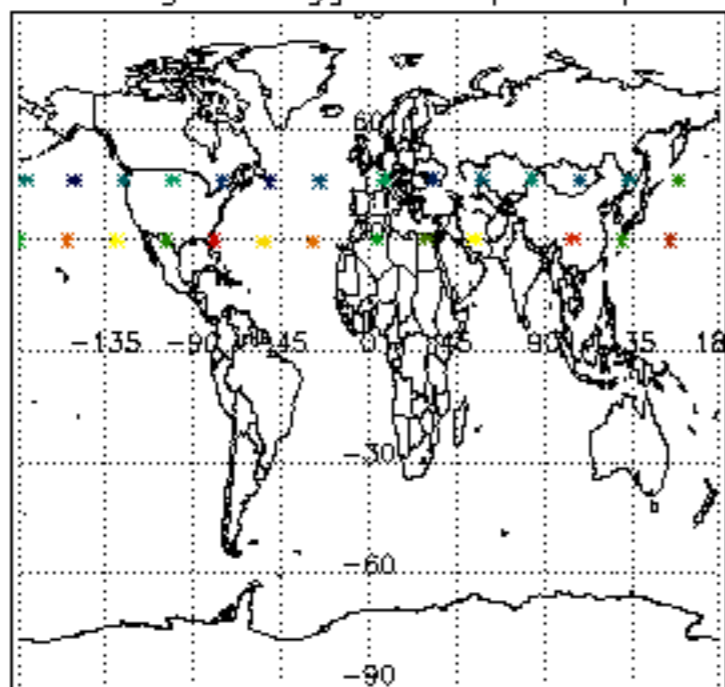




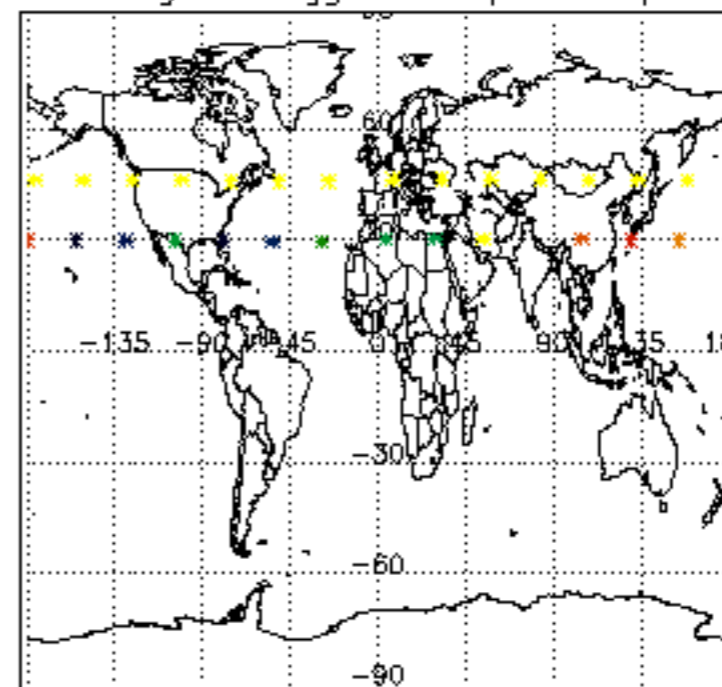




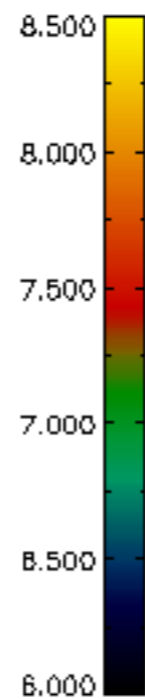
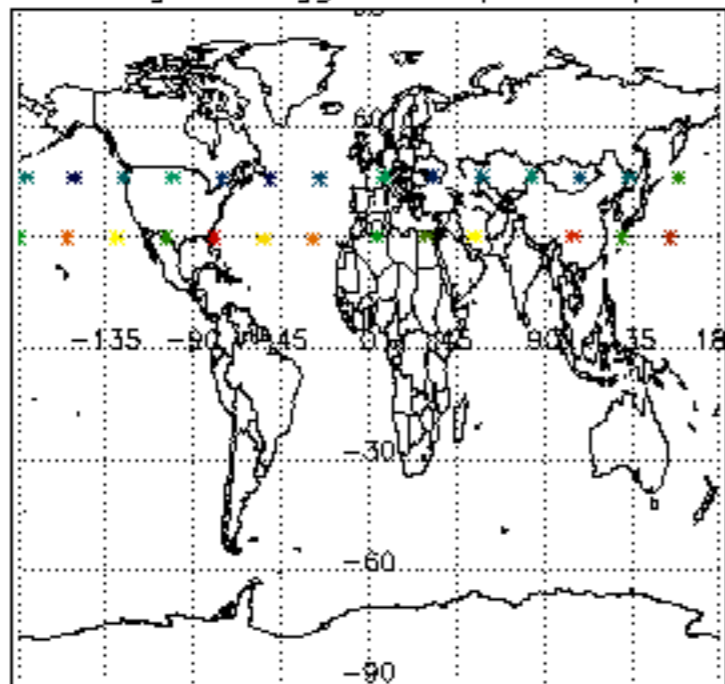
Percentage of flagged data per D3 profile



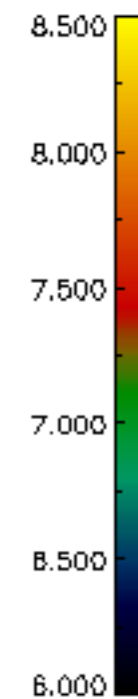
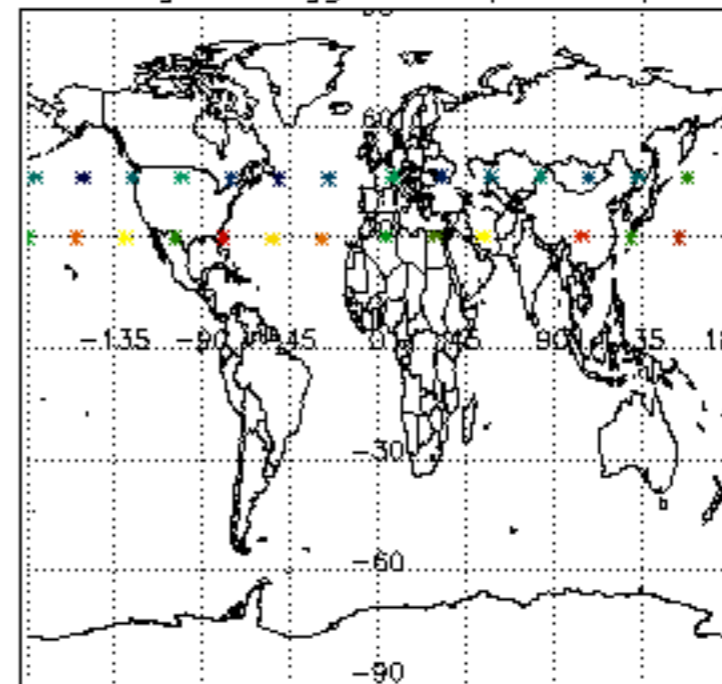
Percentage of flagged data per H2O profile

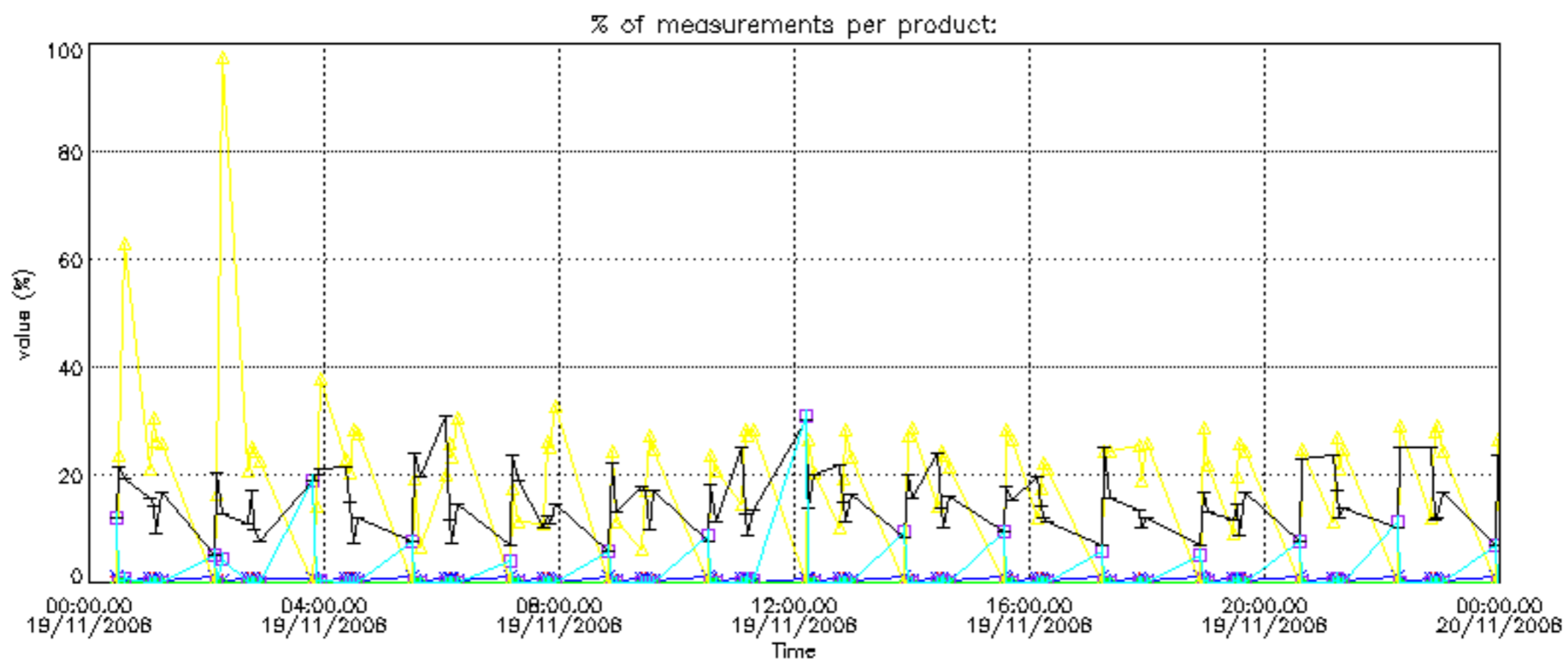


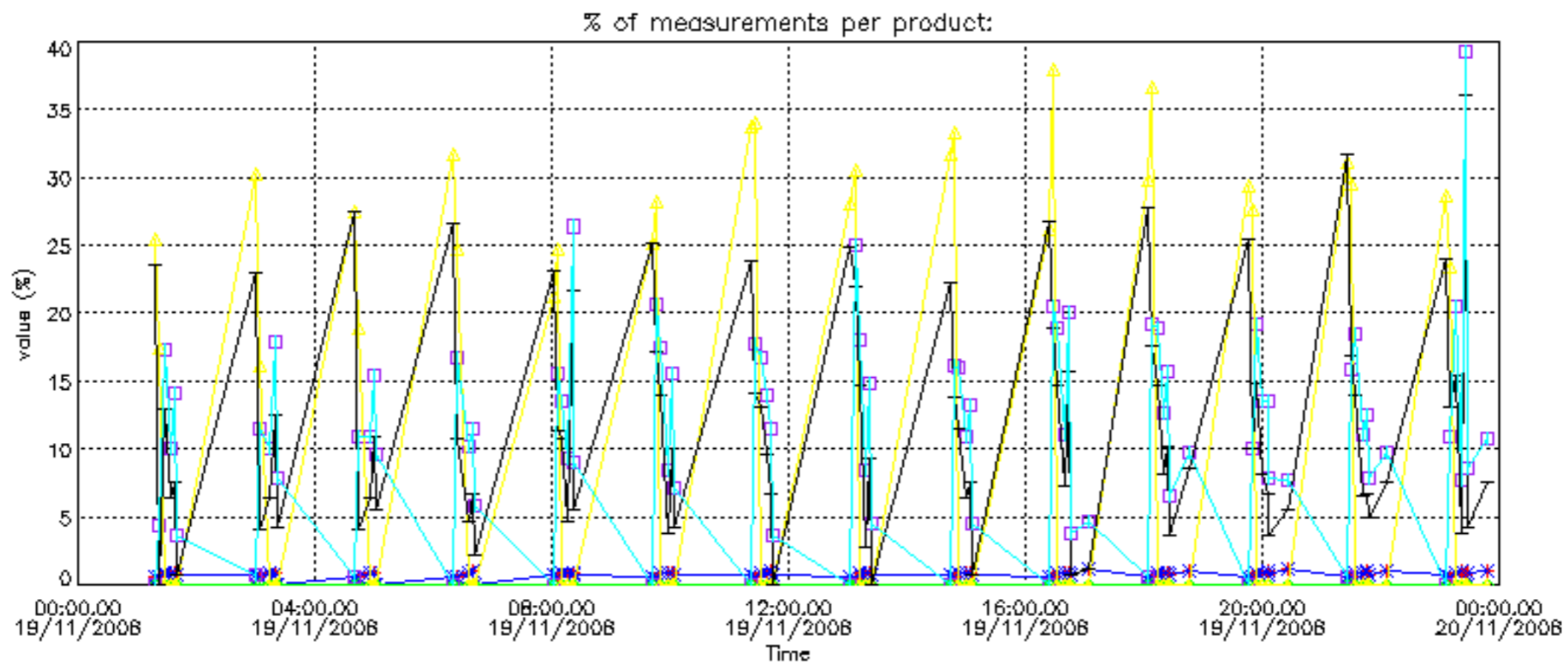
Percentage of flagged data per NO2 profile



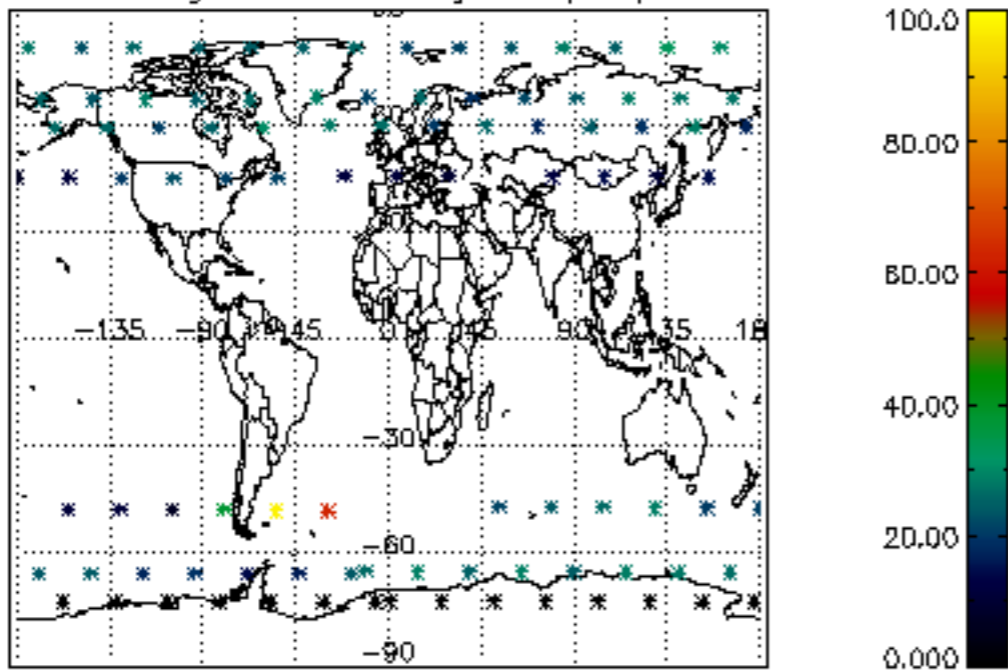
Percentage of flagged data per NO3 profile



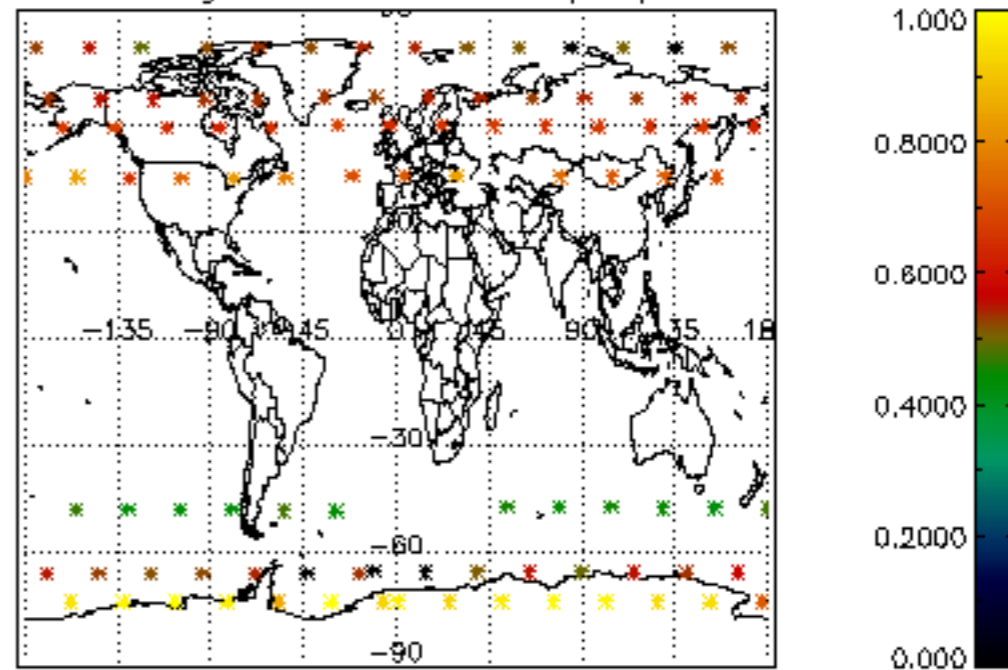




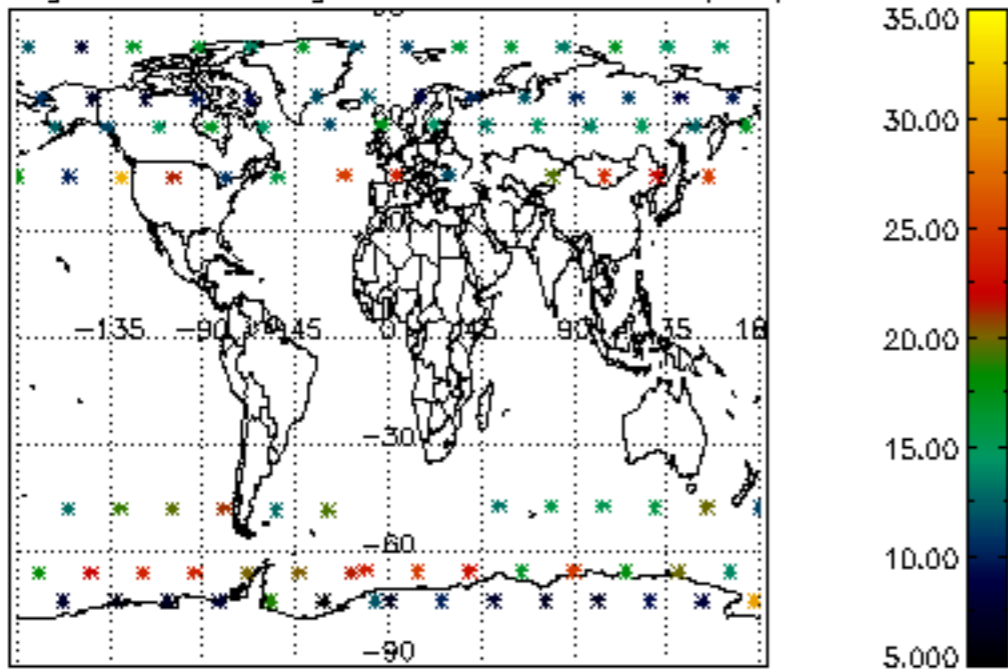
Percentage of cosmic ray hits per profile



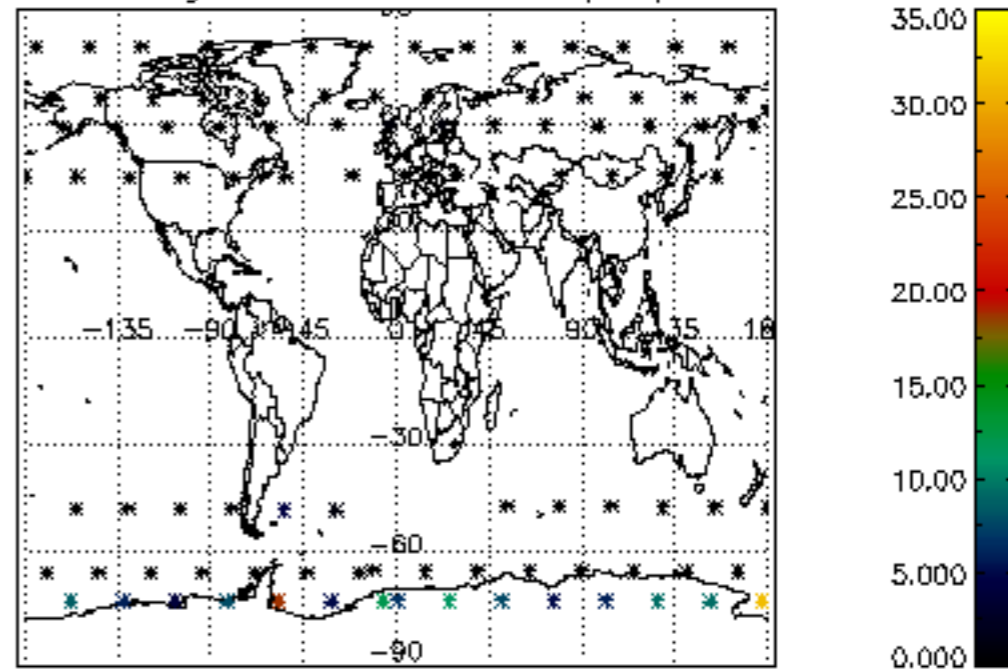
Percentage of datation errors per profile



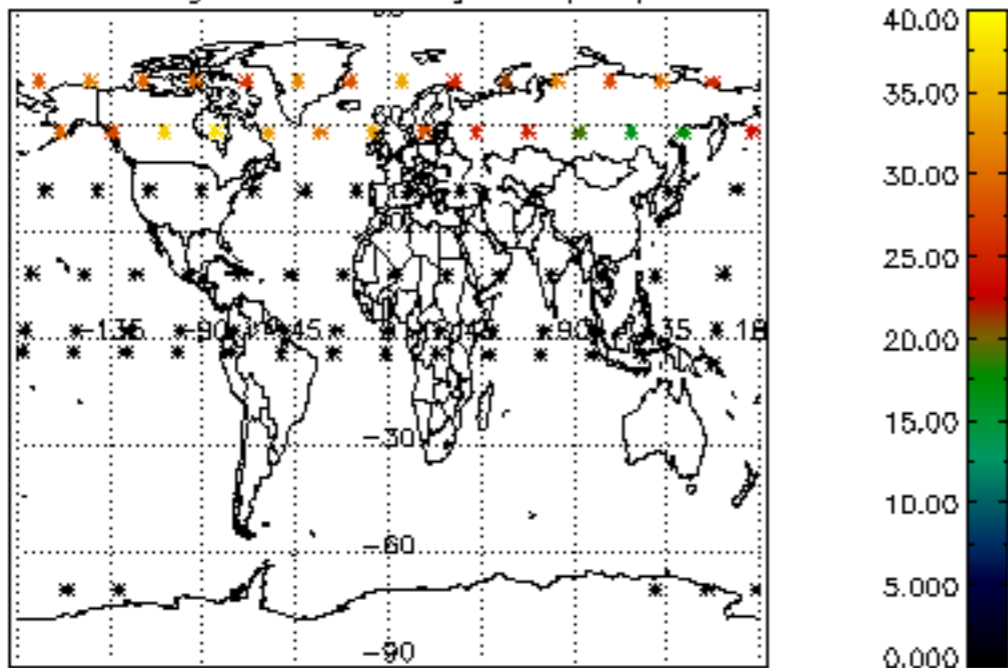
Percentage of star falling outside central band per profile



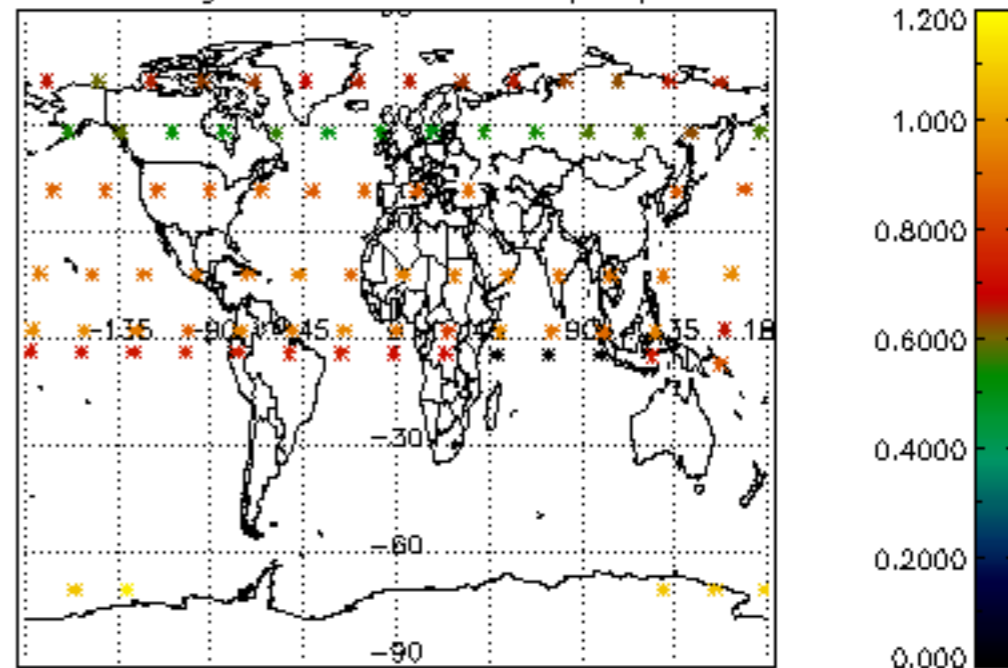
Percentage of saturation errors per profile



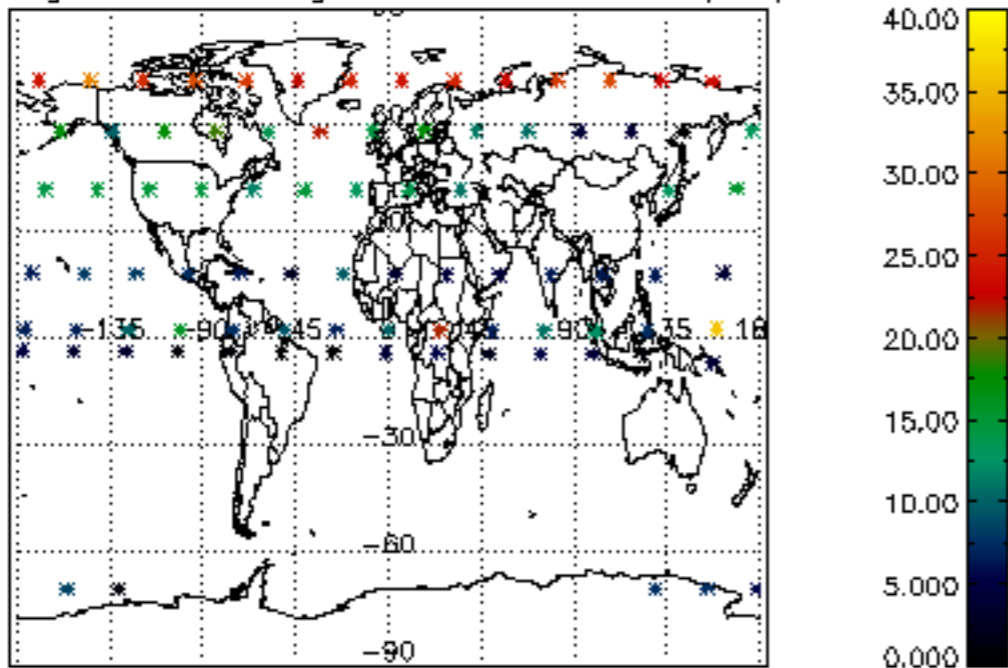
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

