

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	24APR2013 12:08:53
Data source version	GOMOS/6.01
Start time of products	08-04-2011 (08APR2011 00:00:00)
Stop time of products	09-04-2011 (09APR2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	310
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

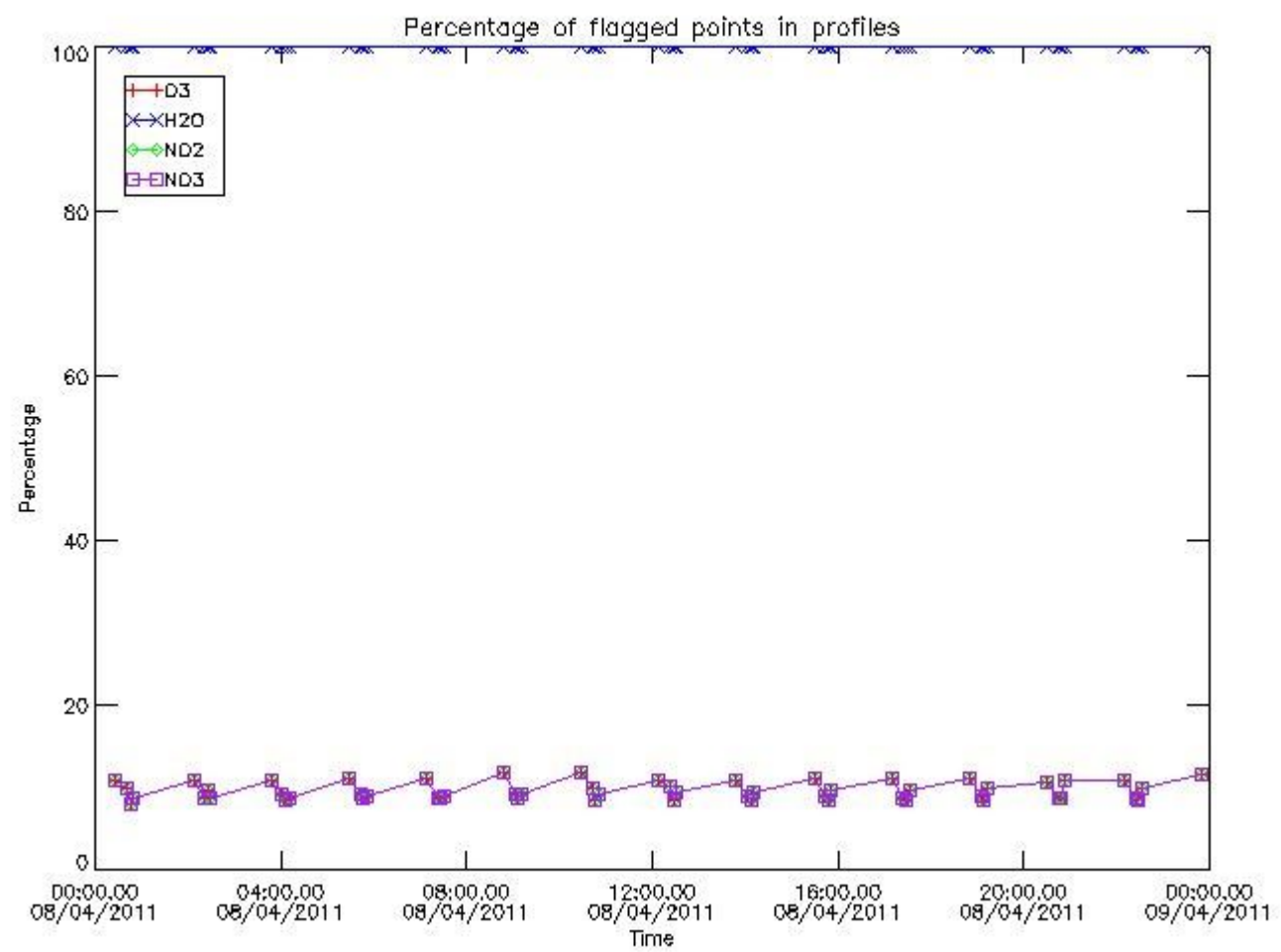
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110408_000601_000000393101_00174_47602_0374.N1	08-APR-2011 00:06:01	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	47602	No
2	GOM_NL__2PRFIN20110408_001044_000000593101_00174_47602_0375.N1	08-APR-2011 00:10:44	Bright	59.000	144	18Del Cyg	2.8600	11000.	118	47602	No
3	GOM_NL__2PRFIN20110408_001255_000000483101_00174_47602_0376.N1	08-APR-2011 00:12:55	Bright	48.000	66	37Gam Cyg	2.2080	5900.0	96	47602	No
4	GOM_NL__2PRFIN20110408_001510_000000473101_00174_47602_0377.N1	08-APR-2011 00:15:10	Bright	47.000	92	53Eps Cyg	2.5000	4500.0	94	47602	No
5	GOM_NL__2PRFIN20110408_002204_000000483101_00174_47602_0378.N1	08-APR-2011 00:22:04	Twilight	48.000	61	8Eps Peg	2.1000	3900.0	96	47602	No
6	GOM_NL__2PRFIN20110408_002651_000000463101_00174_47602_0379.N1	08-APR-2011 00:26:51	Dark	46.000	154	22Bet Aqr	2.8990	5700.0	92	47602	No
7	GOM_NL__2PRFIN20110408_004131_000000573101_00174_47602_0380.N1	08-APR-2011 00:41:31	Dark	57.000	103	38Zet Sgr	2.6000	9700.0	114	47602	No
8	GOM_NL__2PRFIN20110408_004509_000000643101_00175_47603_0372.N1	08-APR-2011 00:45:09	Dark	63.500	38	20Eps Sgr	1.8360	11000.	127	47603	No
9	GOM_NL__2PRFIN20110408_004920_000000593101_00175_47603_0373.N1	08-APR-2011 00:49:20	Dark	58.500	25	35Lam Sco	1.6200	28000.	117	47603	No
10	GOM_NL__2PRFIN20110408_005634_000000453101_00175_47603_0374.N1	08-APR-2011 00:56:34	Straylight	45.000	78	Alp Lup	2.3040	28000.	90	47603	No
11	GOM_NL__2PRFIN20110408_005810_000000453101_00175_47603_0375.N1	08-APR-2011 00:58:10	Straylight	45.000	81	Eta Cen	2.3560	28000.	90	47603	No
12	GOM_NL__2PRFIN20110408_010042_000000493101_00175_47603_0376.N1	08-APR-2011 01:00:42	Straylight	49.000	54	5The Cen	2.0550	4500.0	98	47603	No
13	GOM_NL__2PRFIN20110408_010544_000000463101_00175_47603_0377.N1	08-APR-2011 01:05:44	Twilight	45.500	169	46Gam Hya	2.9910	4700.0	91	47603	No
14	GOM_NL__2PRFIN20110408_010814_000000423101_00175_47603_0378.N1	08-APR-2011 01:08:14	Twilight	41.500	163	7Del Crv	2.9450	11000.	83	47603	No
15	GOM_NL__2PRFIN20110408_010938_000000523101_00175_47603_0379.N1	08-APR-2011 01:09:38	Bright	51.500	15	67Alp Vir	0.97600	28000.	103	47603	No
16	GOM_NL__2PRFIN20110408_011244_000000413101_00175_47603_0380.N1	08-APR-2011 01:12:44	Bright	41.000	121	29Gam Vir	2.7400	7200.0	82	47603	No
17	GOM_NL__2PRFIN20110408_011651_000000433101_00175_47603_0381.N1	08-APR-2011 01:16:51	Bright	42.500	138	47Eps Vir	2.8280	4700.0	85	47603	No
18	GOM_NL__2PRFIN20110408_012510_000000423101_00175_47603_0382.N1	08-APR-2011 01:25:10	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	47603	No
19	GOM_NL__2PRFIN20110408_012834_000000513101_00175_47603_0383.N1	08-APR-2011 01:28:34	Bright	51.000	87	64Gam UMa	2.4330	11000.	102	47603	No
20	GOM_NL__2PRFIN20110408_013003_000000403101_00175_47603_0384.N1	08-APR-2011 01:30:03	Bright	39.500	32	77Eps UMa	1.7630	11000.	79	47603	No
21	GOM_NL__2PRFIN20110408_013627_000000363101_00175_47603_0385.N1	08-APR-2011 01:36:27	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	47603	No
22	GOM_NL__2PRFIN20110408_013835_000000453101_00175_47603_0386.N1	08-APR-2011 01:38:35	Bright	45.000	119	14Eta Dra	2.7270	4700.0	90	47603	No
23	GOM_NL__2PRFIN20110408_014615_000000393101_00175_47603_0387.N1	08-APR-2011 01:46:15	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	47603	No
24	GOM_NL__2PRFIN20110408_015058_000000493101_00175_47603_0388.N1	08-APR-2011 01:50:58	Bright	48.500	144	18Del Cyg	2.8600	11000.	97	47603	No
25	GOM_NL__2PRFIN20110408_015309_000000493101_00175_47603_0389.N1	08-APR-2011 01:53:09	Bright	49.000	66	37Gam Cyg	2.2080	5900.0	98	47603	No
26	GOM_NL__2PRFIN20110408_015524_000000463101_00175_47603_0390.N1	08-APR-2011 01:55:24	Bright	46.000	92	53Eps Cyg	2.5000	4500.0	92	47603	No
27	GOM_NL__2PRFIN20110408_020218_000000473101_00175_47603_0391.N1	08-APR-2011 02:02:18	Twilight	46.500	61	8Eps Peg	2.1000	3900.0	93	47603	No
28	GOM_NL__2PRFIN20110408_020705_000000473101_00175_47603_0392.N1	08-APR-2011 02:07:05	Dark	47.000	154	22Bet Aqr	2.8990	5700.0	94	47603	No
29	GOM_NL__2PRFIN20110408_022146_000000593101_00175_47603_0393.N1	08-APR-2011 02:21:46	Dark	58.500	103	38Zet Sgr	2.6000	9700.0	117	47603	No
30	GOM_NL__2PRFIN20110408_022524_000000593101_00176_47604_0385.N1	08-APR-2011 02:25:24	Dark	58.500	38	20Eps Sgr	1.8360	11000.	117	47604	No
31	GOM_NL__2PRFIN20110408_022935_000000583101_00176_47604_0386.N1	08-APR-2011 02:29:35	Dark	58.000	25	35Lam Sco	1.6200	28000.	116	47604	No
32	GOM_NL__2PRFIN20110408_023649_000000453101_00176_47604_0387.N1	08-APR-2011 02:36:49	Straylight	44.500	78	Alp Lup	2.3040	28000.	89	47604	No
33	GOM_NL__2PRFIN20110408_023825_000000483101_00176_47604_0388.N1	08-APR-2011 02:38:25	Straylight	48.000	81	Eta Cen	2.3560	28000.	96	47604	No
34	GOM_NL__2PRFIN20110408_024057_000000543101_00176_47604_0389.N1	08-APR-2011 02:40:57	Straylight	53.500	54	5The Cen	2.0550	4500.0	107	47604	No
35	GOM_NL__2PRFIN20110408_024558_000000473101_00176_47604_0390.N1	08-APR-2011 02:45:58	Twilight	47.000	169	46Gam Hya	2.9910	4700.0	94	47604	No
36	GOM_NL__2PRFIN20110408_024829_000000453101_00176_47604_0391.N1	08-APR-2011 02:48:29	Twilight	45.000	163	7Del Crv	2.9450	11000.	90	47604	No
37	GOM_NL__2PRFIN20110408_024952_000000533101_00176_47604_0392.N1	08-APR-2011 02:49:52	Bright	52.500	15	67Alp Vir	0.97600	28000.	105	47604	No
38	GOM_NL__2PRFIN20110408_025259_000000403101_00176_47604_0393.N1	08-APR-2011 02:52:59	Bright	40.000	121	29Gam Vir	2.7400	7200.0	80	47604	No
39	GOM_NL__2PRFIN20110408_025705_000000433101_00176_47604_0394.N1	08-APR-2011 02:57:05	Bright	42.500	138	47Eps Vir	2.8280	4700.0	85	47604	No
40	GOM_NL__2PRFIN20110408_030524_000000423101_00176_47604_0395.N1	08-APR-2011 03:05:24	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	47604	No
41	GOM_NL__2PRFIN20110408_030848_000000363101_00176_47604_0396.N1	08-APR-2011 03:08:48	Bright	35.500	87	64Gam UMa	2.4330	11000.	71	47604	No
42	GOM_NL__2PRFIN20110408_031016_000000433101_00176_47604_0397.N1	08-APR-2011 03:10:16	Bright	43.000	32	77Eps UMa	1.7630	11000.	86	47604	No

279	GOM_NL__2PRFIN20110408_212754_000000603101_00187_47615_0708.N1	08-APR-2011 21:27:54	Bright	60.000	152	12Alp2CVn	2.8900	11000.	120	47615	No
280	GOM_NL__2PRFIN20110408_213121_000000543101_00187_47615_0709.N1	08-APR-2011 21:31:21	Bright	54.000	87	64Gam UMa	2.4330	11000.	108	47615	No
281	GOM_NL__2PRFIN20110408_213247_000000383101_00187_47615_0710.N1	08-APR-2011 21:32:47	Bright	38.000	32	77Eps UMa	1.7630	11000.	76	47615	No
282	GOM_NL__2PRFIN20110408_213911_000000413101_00187_47615_0711.N1	08-APR-2011 21:39:11	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47615	No
283	GOM_NL__2PRFIN20110408_214114_000000483101_00187_47615_0712.N1	08-APR-2011 21:41:14	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	47615	No
284	GOM_NL__2PRFIN20110408_214901_000000383101_00187_47615_0713.N1	08-APR-2011 21:49:01	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	47615	No
285	GOM_NL__2PRFIN20110408_215342_000000263101_00187_47615_0714.N1	08-APR-2011 21:53:42	Twilight	26.000	144	18Del Cyg	2.8600	11000.	52	47615	No
286	GOM_NL__2PRFIN20110408_215556_000000493101_00187_47615_0715.N1	08-APR-2011 21:55:56	Bright	48.500	66	37Gam Cyg	2.2080	5900.0	97	47615	No
287	GOM_NL__2PRFIN20110408_215813_000000493101_00187_47615_0716.N1	08-APR-2011 21:58:13	Bright	49.000	92	53Eps Cyg	2.5000	4500.0	98	47615	No
288	GOM_NL__2PRFIN20110408_220510_000000493101_00187_47615_0717.N1	08-APR-2011 22:05:10	Twilight	48.500	61	8Eps Peg	2.1000	3900.0	97	47615	No
289	GOM_NL__2PRFIN20110408_220959_000000473101_00187_47615_0718.N1	08-APR-2011 22:09:59	Dark	46.500	154	22Bet Aqr	2.8990	5700.0	93	47615	No
290	GOM_NL__2PRFIN20110408_222451_000000583101_00188_47616_0710.N1	08-APR-2011 22:24:51	Dark	58.000	103	38Zet Sgr	2.6000	9700.0	116	47616	No
291	GOM_NL__2PRFIN20110408_222830_000000613101_00188_47616_0711.N1	08-APR-2011 22:28:30	Dark	60.500	38	20Eps Sgr	1.8360	11000.	121	47616	No
292	GOM_NL__2PRFIN20110408_223239_000000513101_00188_47616_0712.N1	08-APR-2011 22:32:39	Dark	51.000	25	35Lam Sco	1.6200	28000.	102	47616	No
293	GOM_NL__2PRFIN20110408_223943_000000433101_00188_47616_0713.N1	08-APR-2011 22:39:43	Straylight	42.500	78	Alp Lup	2.3040	28000.	85	47616	No
294	GOM_NL__2PRFIN20110408_224119_000000463101_00188_47616_0714.N1	08-APR-2011 22:41:19	Straylight	46.000	81	Eta Cen	2.3560	28000.	92	47616	No
295	GOM_NL__2PRFIN20110408_224350_000000493101_00188_47616_0715.N1	08-APR-2011 22:43:50	Straylight	49.000	54	5The Cen	2.0550	4500.0	98	47616	No
296	GOM_NL__2PRFIN20110408_224849_000000463101_00188_47616_0716.N1	08-APR-2011 22:48:49	Twilight	46.000	169	46Gam Hya	2.9910	4700.0	92	47616	No
297	GOM_NL__2PRFIN20110408_225240_000000543101_00188_47616_0717.N1	08-APR-2011 22:52:40	Bright	53.500	15	67Alp Vir	0.97600	28000.	107	47616	No
298	GOM_NL__2PRFIN20110408_225546_000000403101_00188_47616_0718.N1	08-APR-2011 22:55:46	Bright	39.500	121	29Gam Vir	2.7400	7200.0	79	47616	No
299	GOM_NL__2PRFIN20110408_225949_000000433101_00188_47616_0719.N1	08-APR-2011 22:59:49	Bright	42.500	138	47Eps Vir	2.8280	4700.0	85	47616	No
300	GOM_NL__2PRFIN20110408_230807_000000413101_00188_47616_0720.N1	08-APR-2011 23:08:07	Bright	40.500	152	12Alp2CVn	2.8900	11000.	81	47616	No
301	GOM_NL__2PRFIN20110408_231135_000000363101_00188_47616_0721.N1	08-APR-2011 23:11:35	Bright	36.000	87	64Gam UMa	2.4330	11000.	72	47616	No
302	GOM_NL__2PRFIN20110408_231300_000000413101_00188_47616_0722.N1	08-APR-2011 23:13:00	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	47616	No
303	GOM_NL__2PRFIN20110408_231925_000000413101_00188_47616_0723.N1	08-APR-2011 23:19:25	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47616	No
304	GOM_NL__2PRFIN20110408_232127_000000473101_00188_47616_0724.N1	08-APR-2011 23:21:27	Bright	47.000	119	14Eta Dra	2.7270	4700.0	94	47616	No
305	GOM_NL__2PRFIN20110408_232915_000000393101_00188_47616_0725.N1	08-APR-2011 23:29:15	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	47616	No
306	GOM_NL__2PRFIN20110408_233428_000000453101_00188_47616_0726.N1	08-APR-2011 23:34:28	Bright	44.500	19	50Alp Cyg	1.2460	10500.	89	47616	No
307	GOM_NL__2PRFIN20110408_233610_000000693101_00188_47616_0727.N1	08-APR-2011 23:36:10	Bright	69.000	66	37Gam Cyg	2.2080	5900.0	138	47616	No
308	GOM_NL__2PRFIN20110408_233827_000000483101_00188_47616_0728.N1	08-APR-2011 23:38:27	Bright	47.500	92	53Eps Cyg	2.5000	4500.0	95	47616	No
309	GOM_NL__2PRFIN20110408_234525_000000493101_00188_47616_0729.N1	08-APR-2011 23:45:25	Twilight	49.000	61	8Eps Peg	2.1000	3900.0	98	47616	No
310	GOM_NL__2PRFIN20110408_235013_000000443101_00188_47616_0730.N1	08-APR-2011 23:50:13	Dark	43.500	154	22Bet Aqr	2.8990	5700.0	87	47616	No

3. Quality information per product

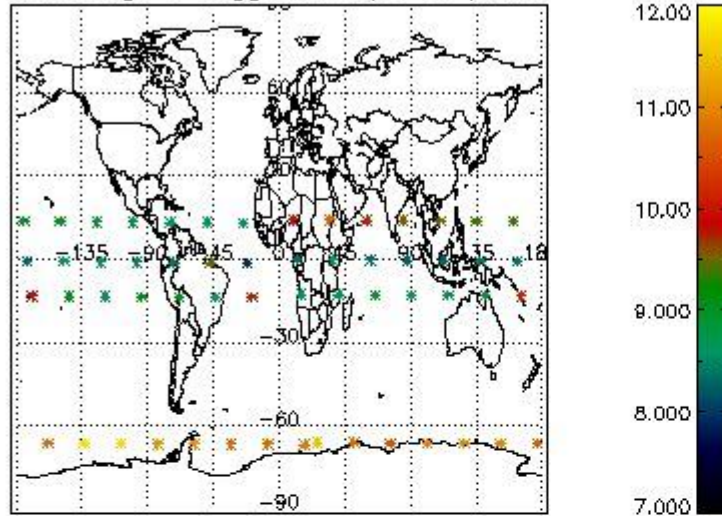
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

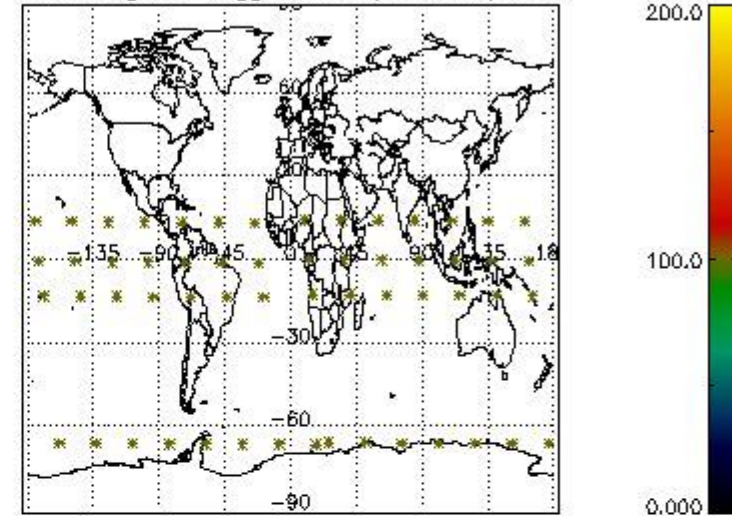


3.2 Plot quality information per product (world map)

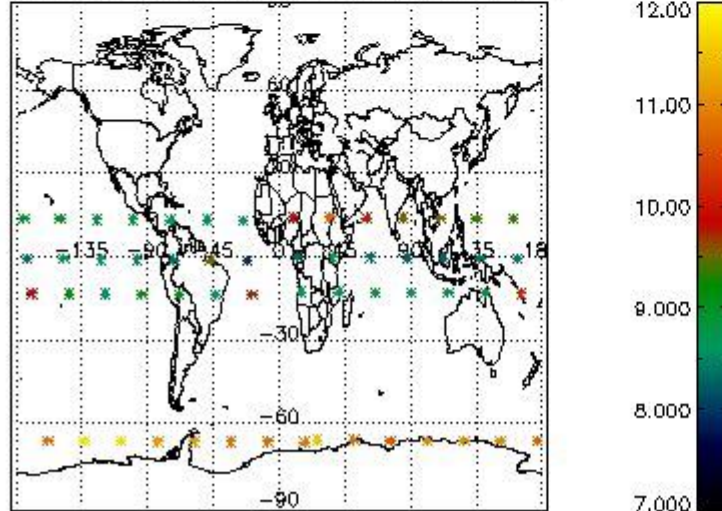
Percentage of flagged data per O3 profile



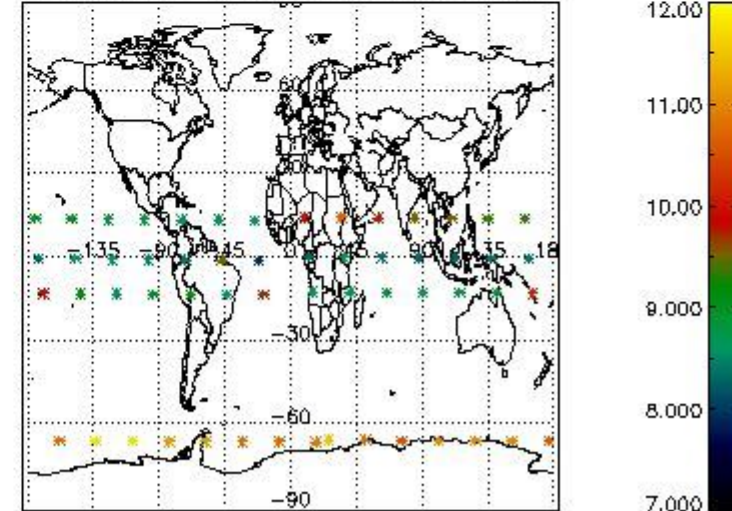
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

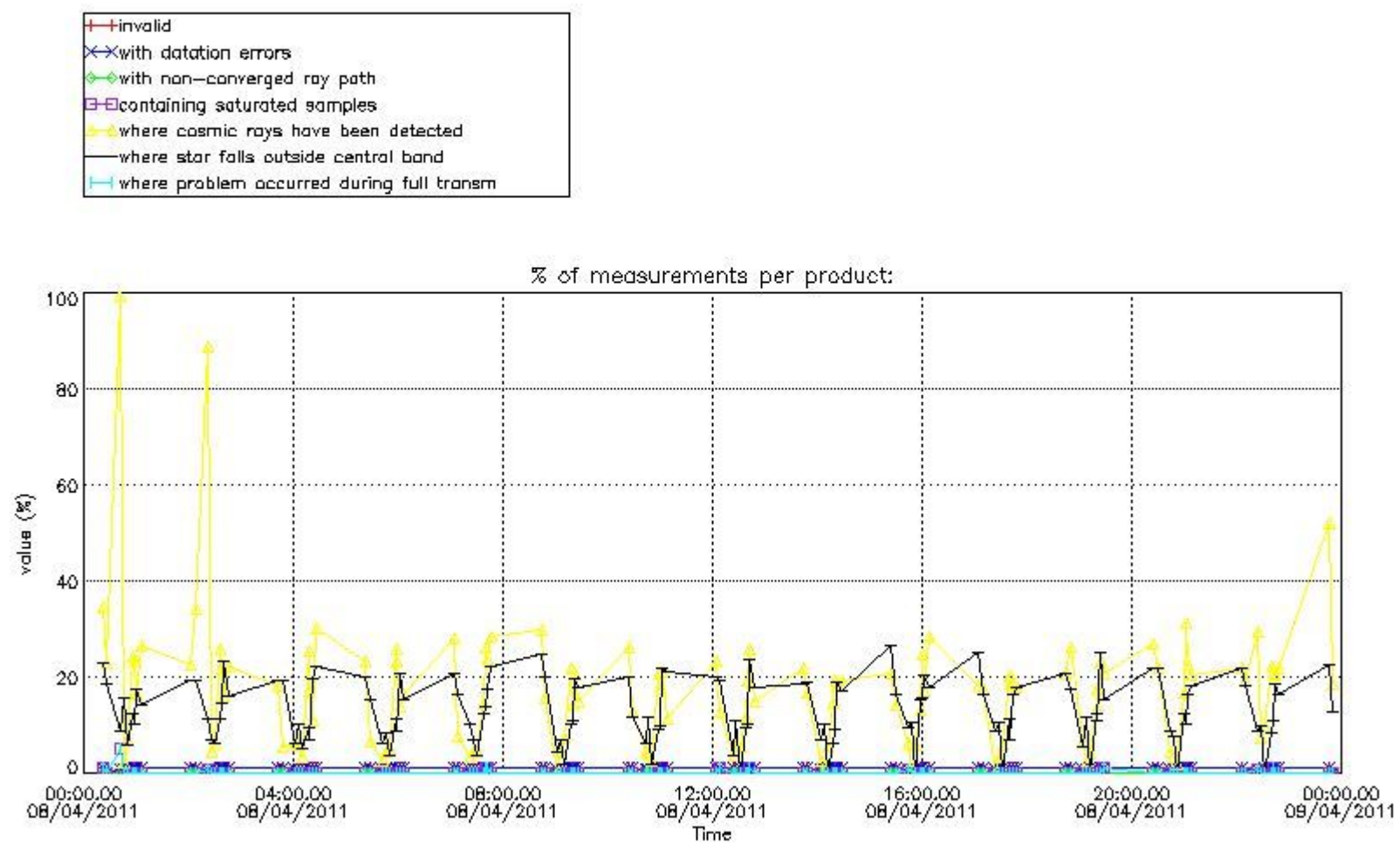


4. Level 1 quality information per product

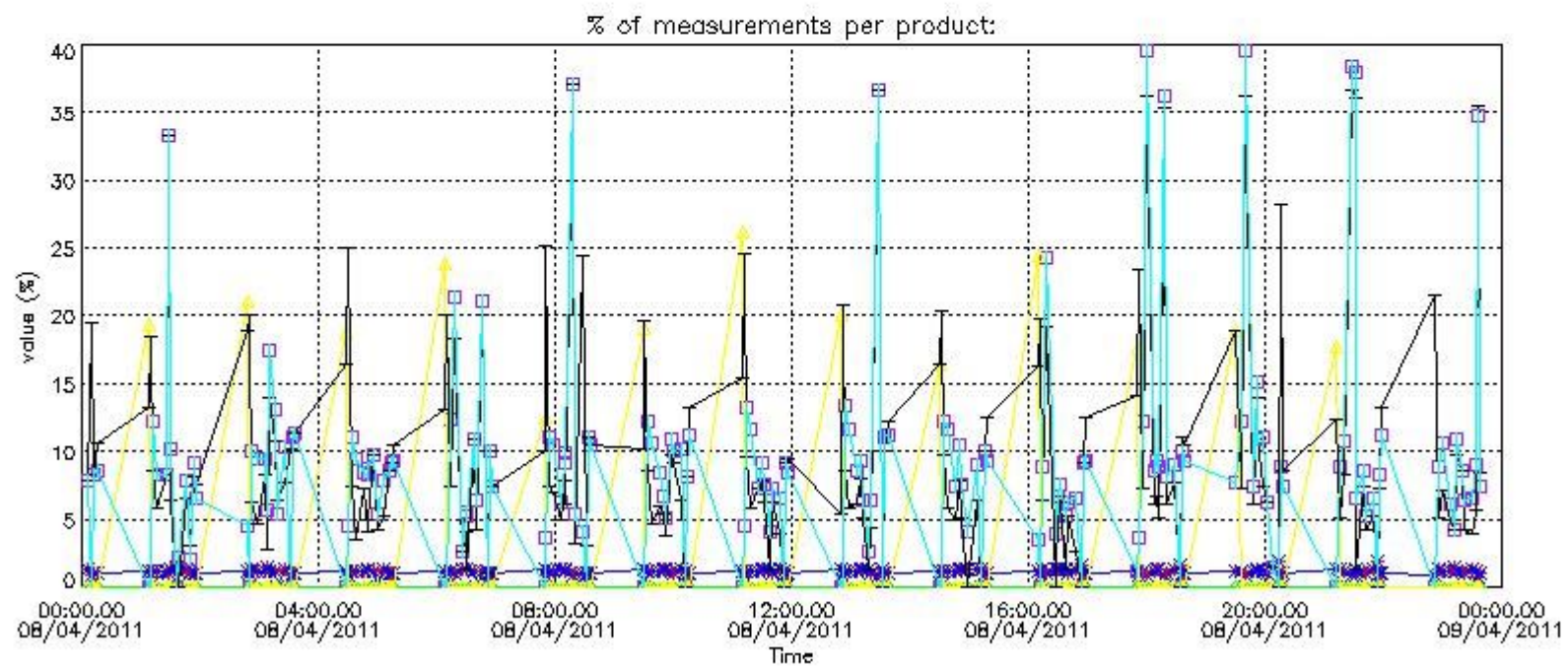
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

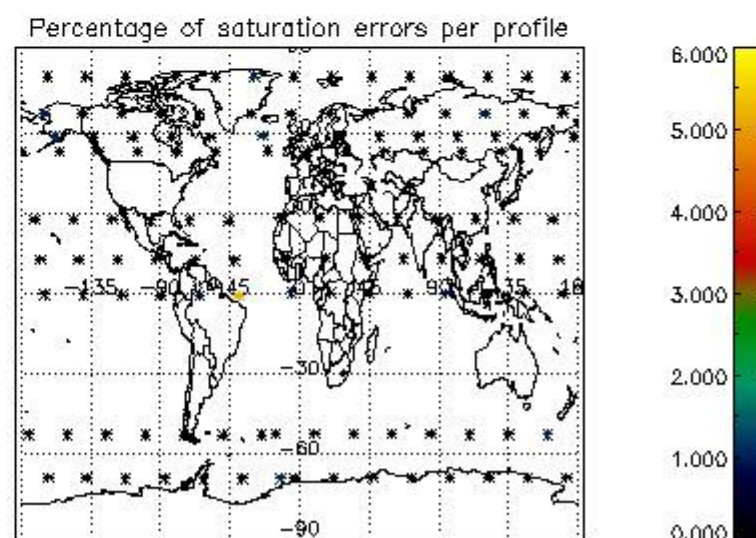
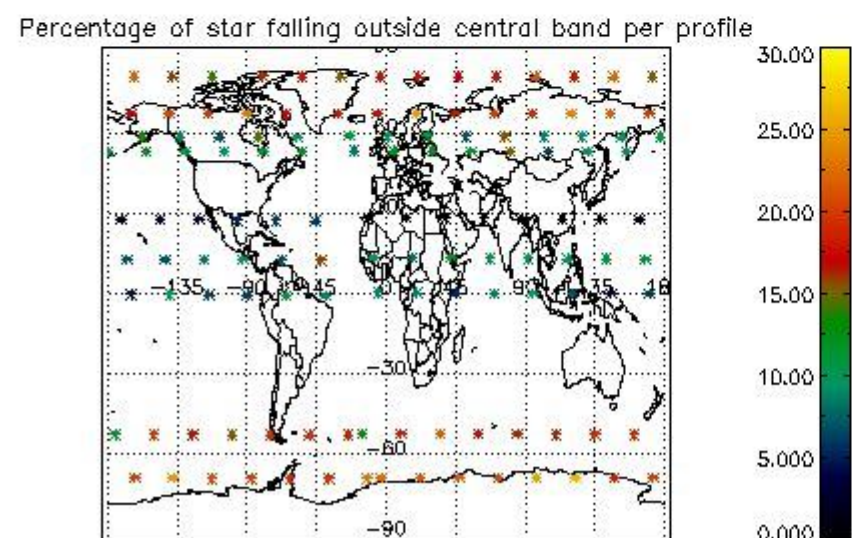
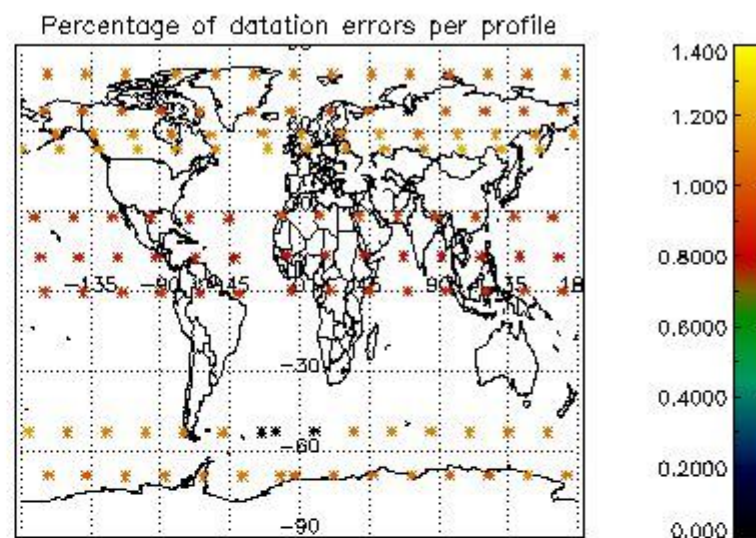
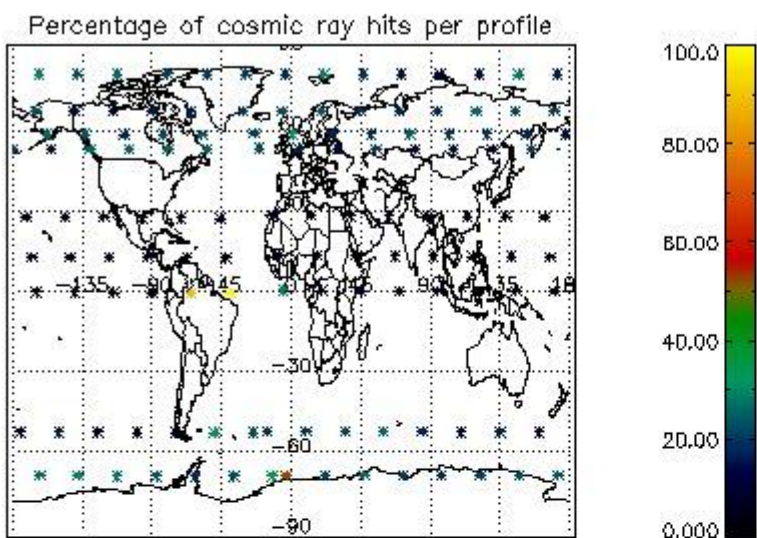


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

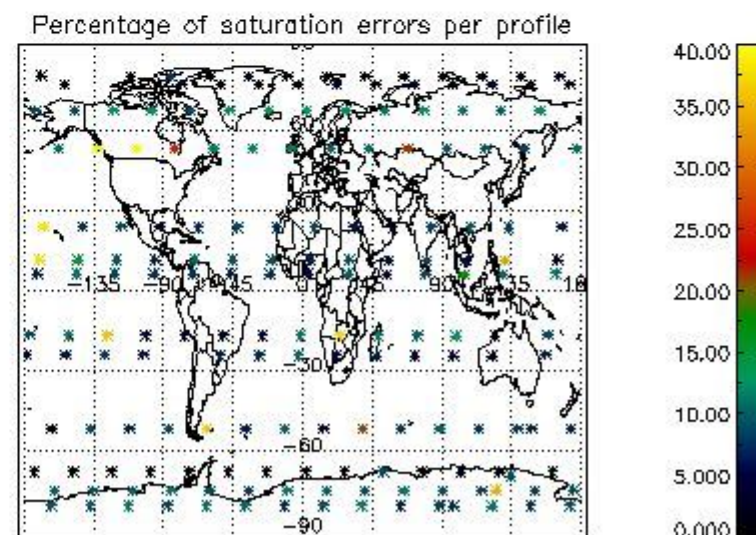
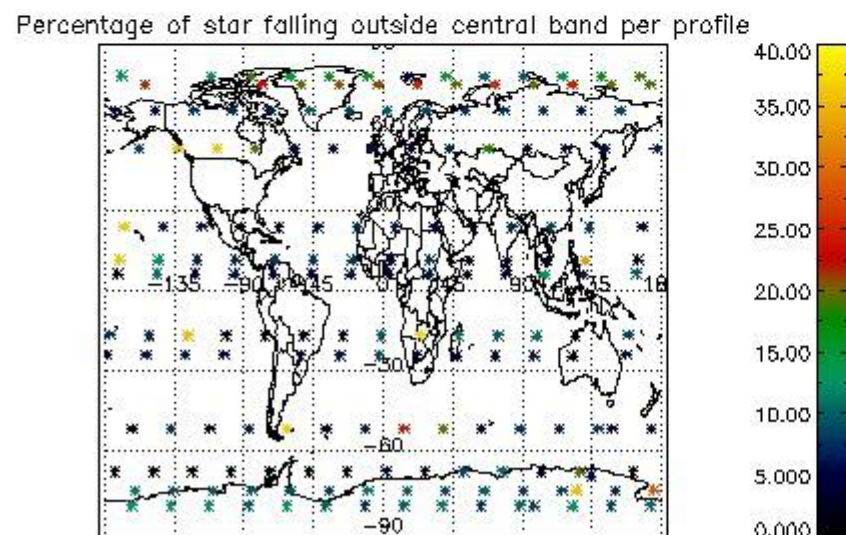
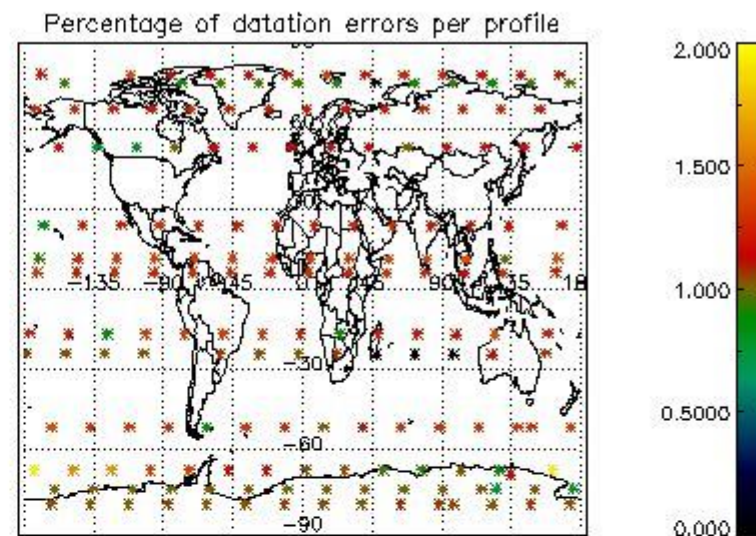
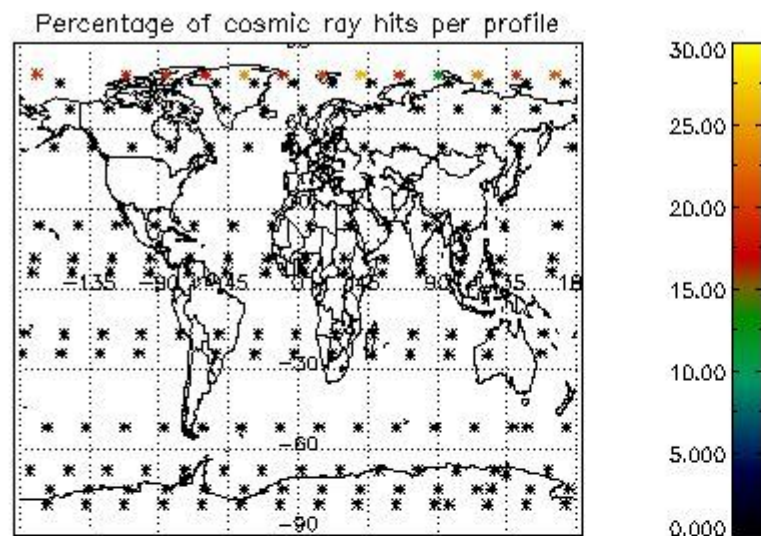


4.2 Plot quality information per product coming from level 1b processing (world map)

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

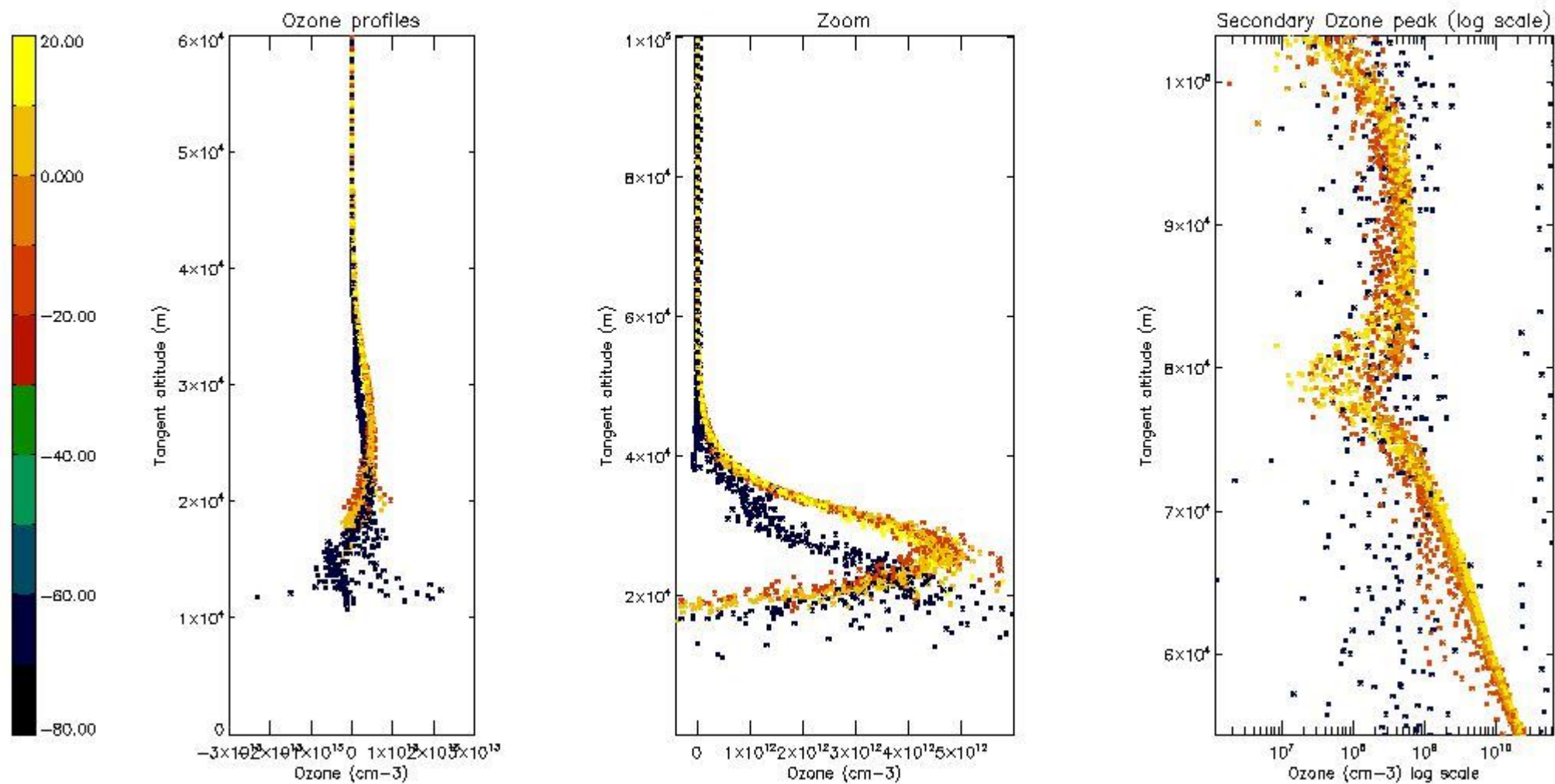
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	22
STD < 20	12

STD < 10	9
STD < 5	6

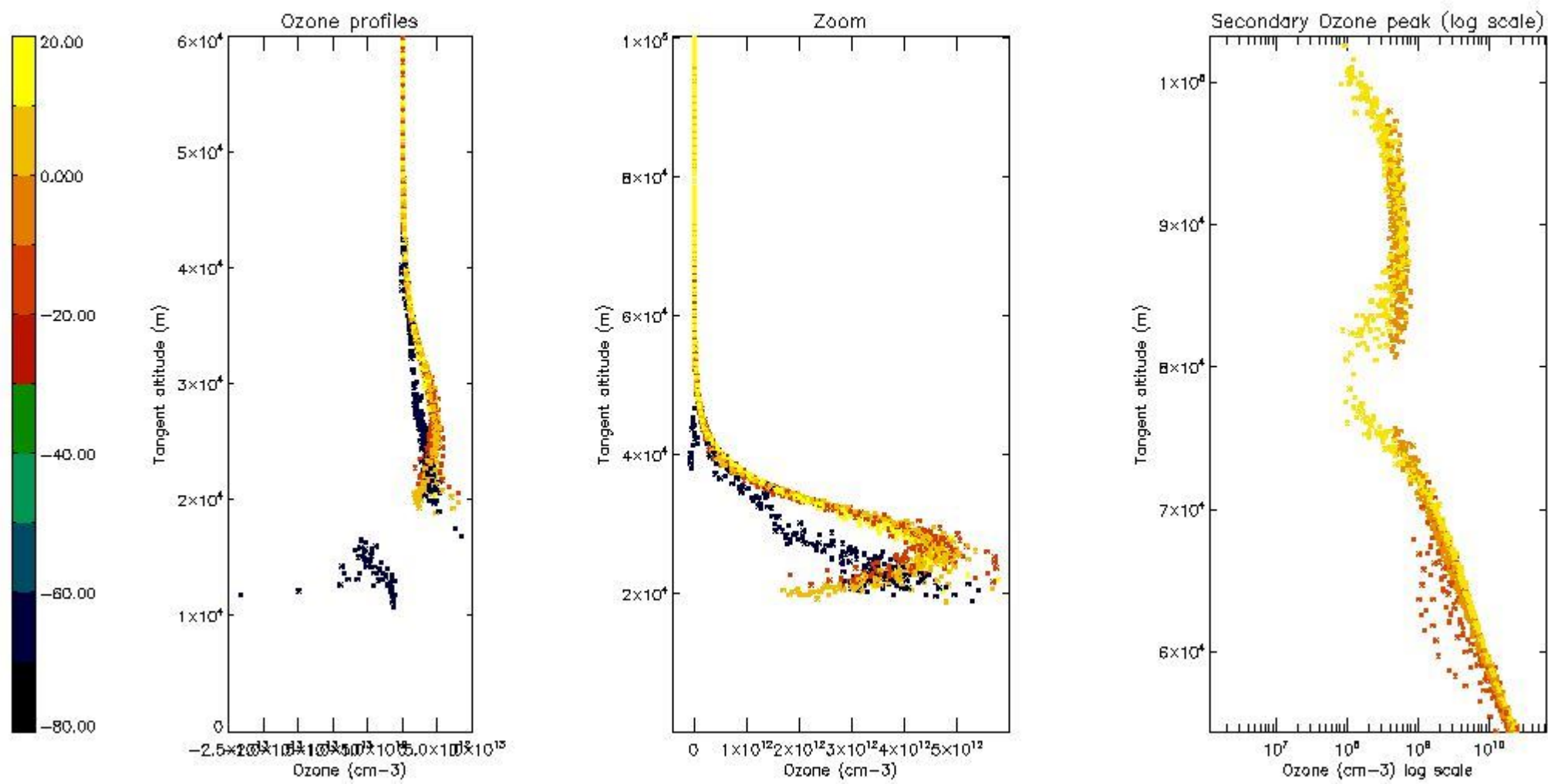
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



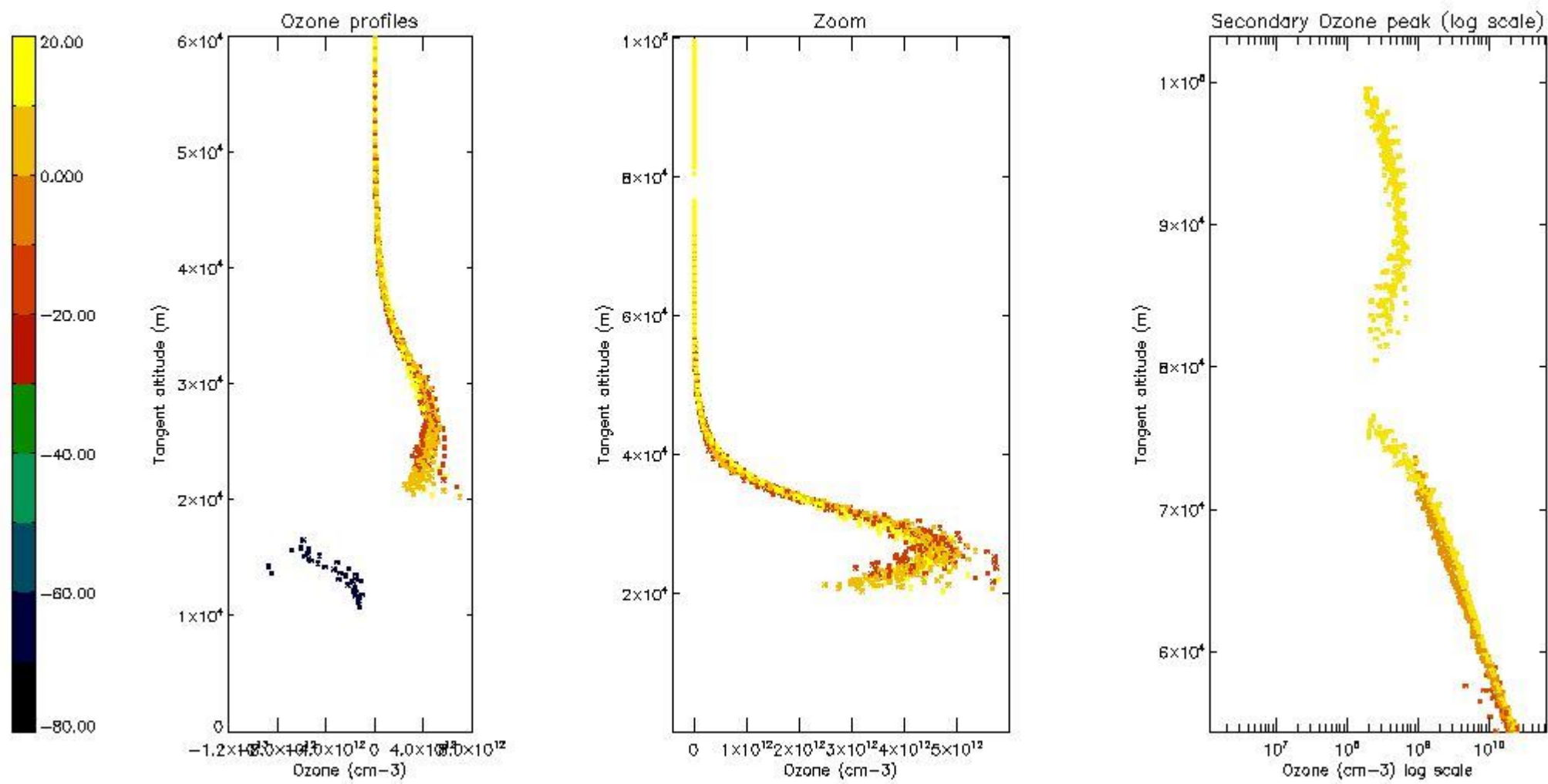
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



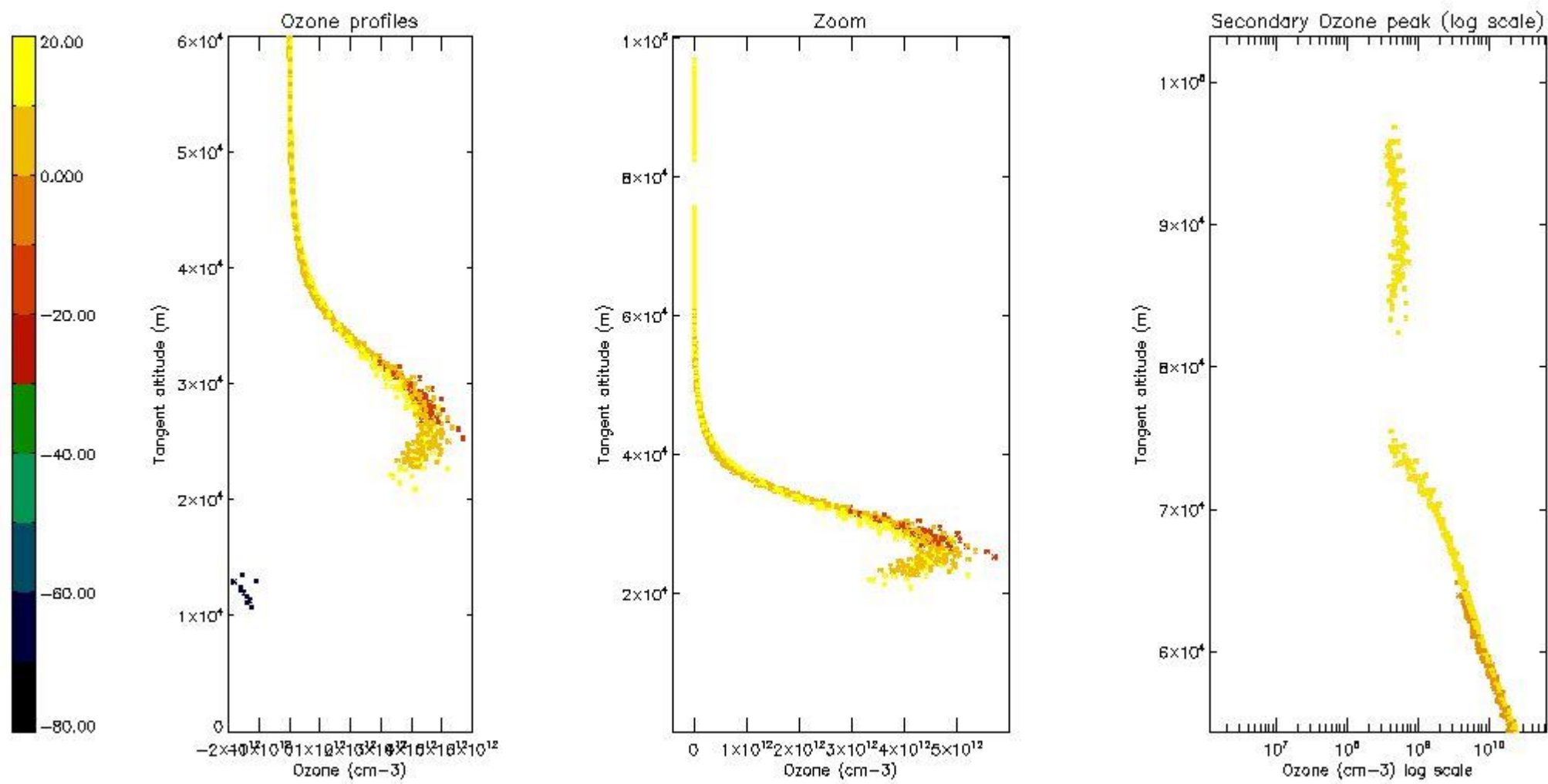
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



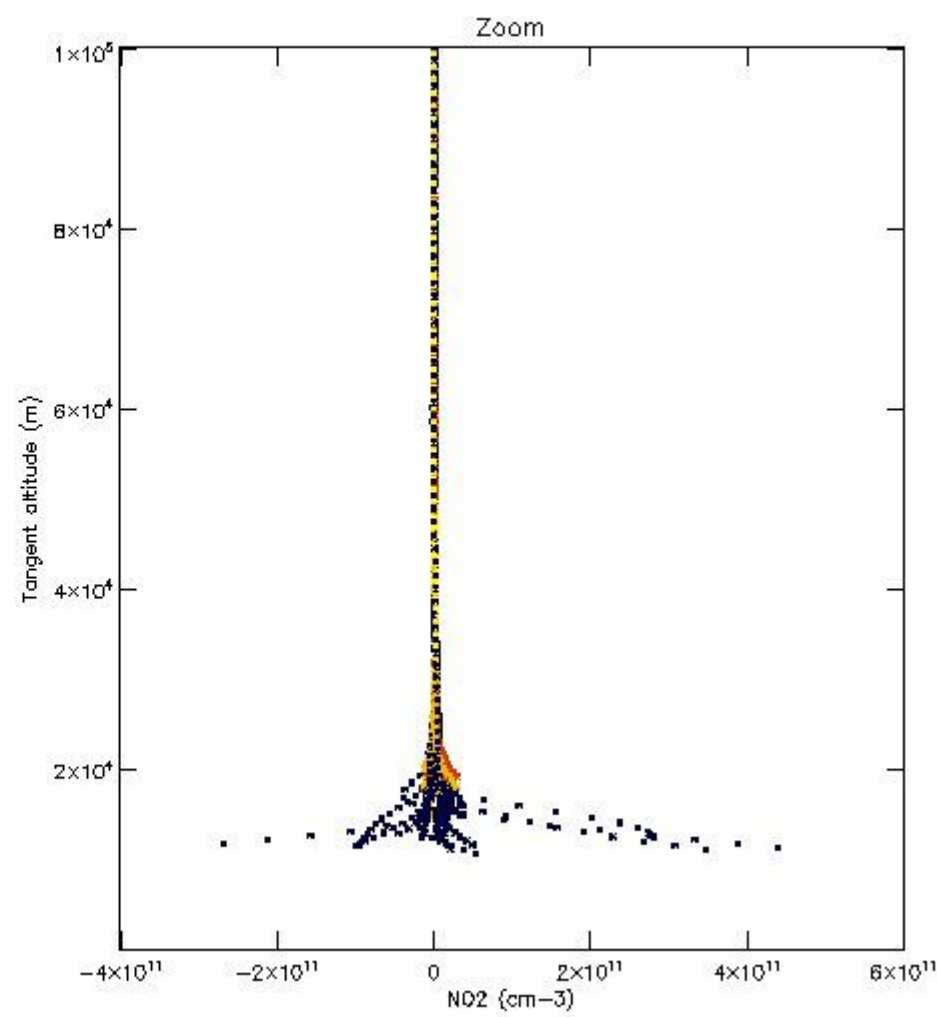
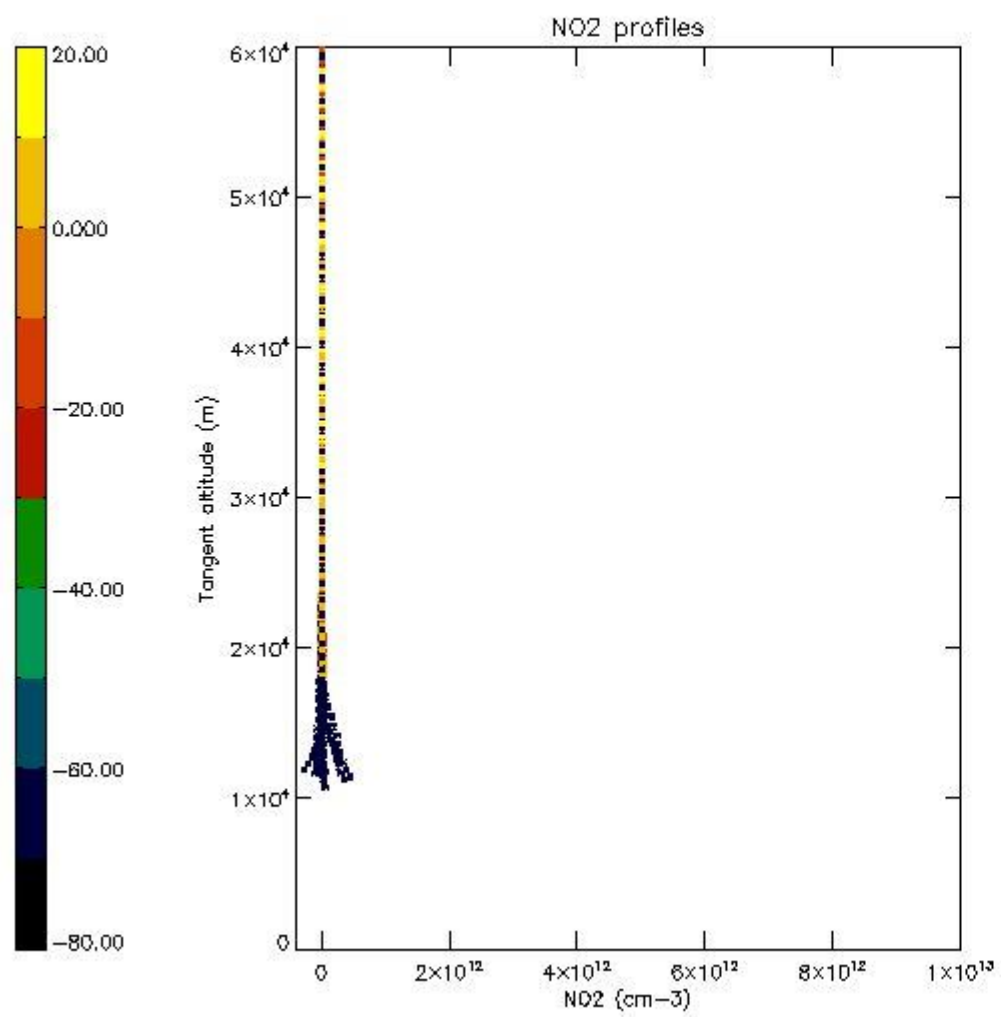
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



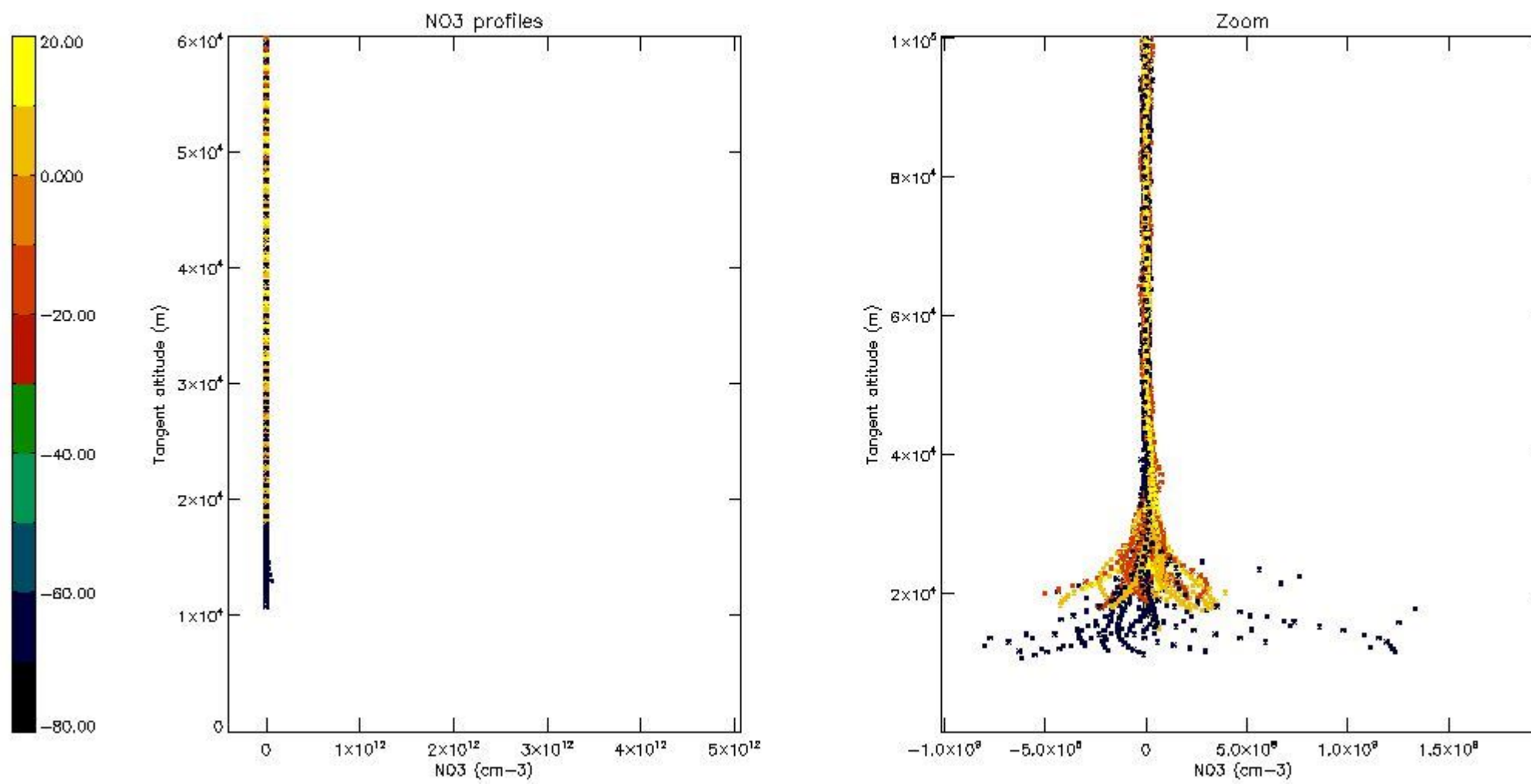
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	08-APR-2011 00:06:01
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	08-APR-2011 00:06:01
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	08-APR-2011 00:06:01

GOMOS Level 2 Daily Report

SUMMARY

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

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[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](#)

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[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	24APR2013 12:08:53
Data source version	GOMOS/6.01
Start time of products	08-04-2011 (08APR2011 00:00:00)
Stop time of products	09-04-2011 (09APR2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	310
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

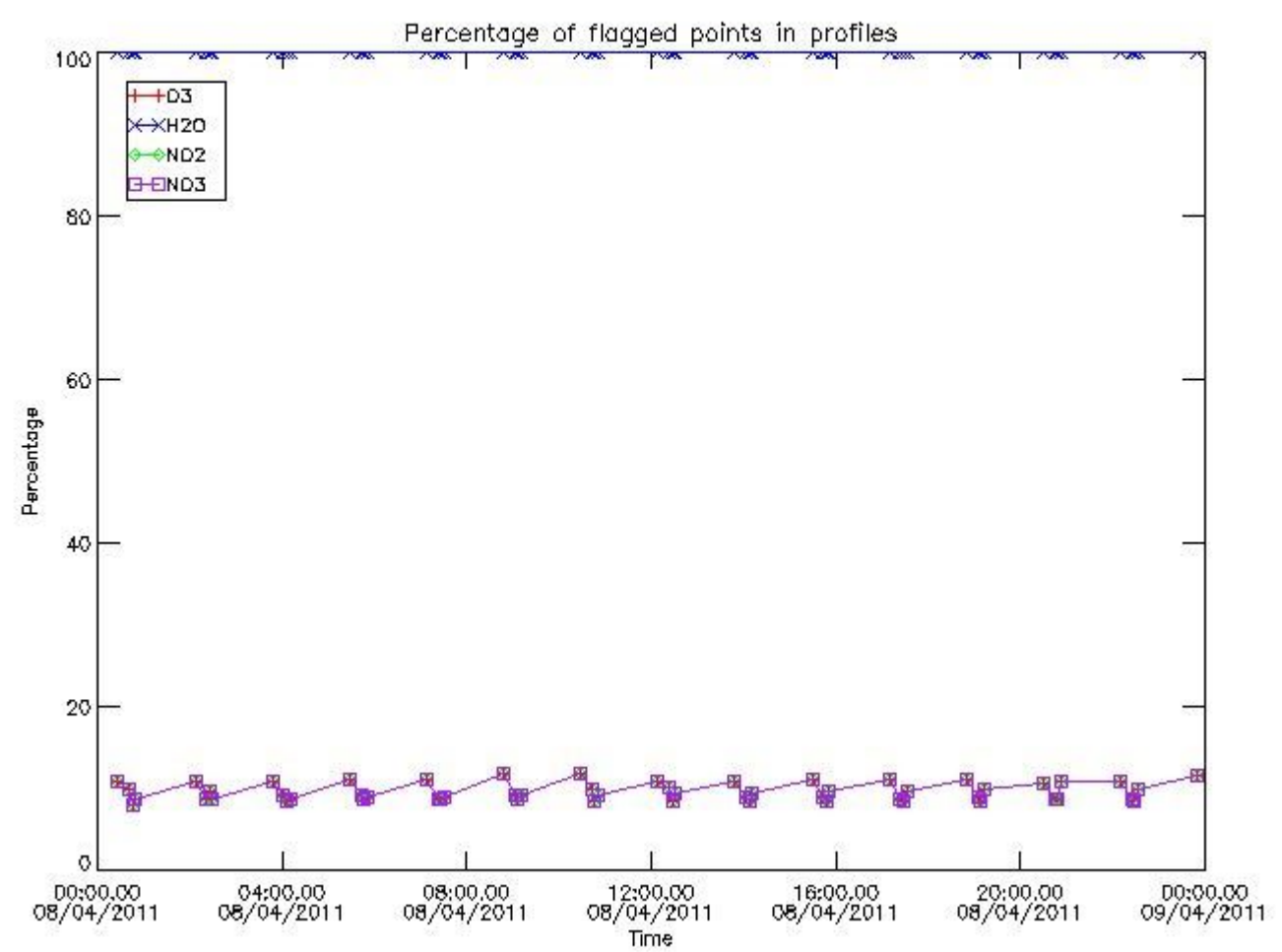
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110408_000601_000000393101_00174_47602_0374.N1	08-APR-2011 00:06:01	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	47602	No
2	GOM_NL__2PRFIN20110408_001044_000000593101_00174_47602_0375.N1	08-APR-2011 00:10:44	Bright	59.000	144	18Del Cyg	2.8600	11000.	118	47602	No
3	GOM_NL__2PRFIN20110408_001255_000000483101_00174_47602_0376.N1	08-APR-2011 00:12:55	Bright	48.000	66	37Gam Cyg	2.2080	5900.0	96	47602	No
4	GOM_NL__2PRFIN20110408_001510_000000473101_00174_47602_0377.N1	08-APR-2011 00:15:10	Bright	47.000	92	53Eps Cyg	2.5000	4500.0	94	47602	No
5	GOM_NL__2PRFIN20110408_002204_000000483101_00174_47602_0378.N1	08-APR-2011 00:22:04	Twilight	48.000	61	8Eps Peg	2.1000	3900.0	96	47602	No
6	GOM_NL__2PRFIN20110408_002651_000000463101_00174_47602_0379.N1	08-APR-2011 00:26:51	Dark	46.000	154	22Bet Aqr	2.8990	5700.0	92	47602	No
7	GOM_NL__2PRFIN20110408_004131_000000573101_00174_47602_0380.N1	08-APR-2011 00:41:31	Dark	57.000	103	38Zet Sgr	2.6000	9700.0	114	47602	No
8	GOM_NL__2PRFIN20110408_004509_000000643101_00175_47603_0372.N1	08-APR-2011 00:45:09	Dark	63.500	38	20Eps Sgr	1.8360	11000.	127	47603	No
9	GOM_NL__2PRFIN20110408_004920_000000593101_00175_47603_0373.N1	08-APR-2011 00:49:20	Dark	58.500	25	35Lam Sco	1.6200	28000.	117	47603	No
10	GOM_NL__2PRFIN20110408_005634_000000453101_00175_47603_0374.N1	08-APR-2011 00:56:34	Straylight	45.000	78	Alp Lup	2.3040	28000.	90	47603	No
11	GOM_NL__2PRFIN20110408_005810_000000453101_00175_47603_0375.N1	08-APR-2011 00:58:10	Straylight	45.000	81	Eta Cen	2.3560	28000.	90	47603	No
12	GOM_NL__2PRFIN20110408_010042_000000493101_00175_47603_0376.N1	08-APR-2011 01:00:42	Straylight	49.000	54	5The Cen	2.0550	4500.0	98	47603	No
13	GOM_NL__2PRFIN20110408_010544_000000463101_00175_47603_0377.N1	08-APR-2011 01:05:44	Twilight	45.500	169	46Gam Hya	2.9910	4700.0	91	47603	No
14	GOM_NL__2PRFIN20110408_010814_000000423101_00175_47603_0378.N1	08-APR-2011 01:08:14	Twilight	41.500	163	7Del Crv	2.9450	11000.	83	47603	No
15	GOM_NL__2PRFIN20110408_010938_000000523101_00175_47603_0379.N1	08-APR-2011 01:09:38	Bright	51.500	15	67Alp Vir	0.97600	28000.	103	47603	No
16	GOM_NL__2PRFIN20110408_011244_000000413101_00175_47603_0380.N1	08-APR-2011 01:12:44	Bright	41.000	121	29Gam Vir	2.7400	7200.0	82	47603	No
17	GOM_NL__2PRFIN20110408_011651_000000433101_00175_47603_0381.N1	08-APR-2011 01:16:51	Bright	42.500	138	47Eps Vir	2.8280	4700.0	85	47603	No
18	GOM_NL__2PRFIN20110408_012510_000000423101_00175_47603_0382.N1	08-APR-2011 01:25:10	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	47603	No
19	GOM_NL__2PRFIN20110408_012834_000000513101_00175_47603_0383.N1	08-APR-2011 01:28:34	Bright	51.000	87	64Gam UMa	2.4330	11000.	102	47603	No
20	GOM_NL__2PRFIN20110408_013003_000000403101_00175_47603_0384.N1	08-APR-2011 01:30:03	Bright	39.500	32	77Eps UMa	1.7630	11000.	79	47603	No
21	GOM_NL__2PRFIN20110408_013627_000000363101_00175_47603_0385.N1	08-APR-2011 01:36:27	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	47603	No
22	GOM_NL__2PRFIN20110408_013835_000000453101_00175_47603_0386.N1	08-APR-2011 01:38:35	Bright	45.000	119	14Eta Dra	2.7270	4700.0	90	47603	No
23	GOM_NL__2PRFIN20110408_014615_000000393101_00175_47603_0387.N1	08-APR-2011 01:46:15	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	47603	No
24	GOM_NL__2PRFIN20110408_015058_000000493101_00175_47603_0388.N1	08-APR-2011 01:50:58	Bright	48.500	144	18Del Cyg	2.8600	11000.	97	47603	No
25	GOM_NL__2PRFIN20110408_015309_000000493101_00175_47603_0389.N1	08-APR-2011 01:53:09	Bright	49.000	66	37Gam Cyg	2.2080	5900.0	98	47603	No
26	GOM_NL__2PRFIN20110408_015524_000000463101_00175_47603_0390.N1	08-APR-2011 01:55:24	Bright	46.000	92	53Eps Cyg	2.5000	4500.0	92	47603	No
27	GOM_NL__2PRFIN20110408_020218_000000473101_00175_47603_0391.N1	08-APR-2011 02:02:18	Twilight	46.500	61	8Eps Peg	2.1000	3900.0	93	47603	No
28	GOM_NL__2PRFIN20110408_020705_000000473101_00175_47603_0392.N1	08-APR-2011 02:07:05	Dark	47.000	154	22Bet Aqr	2.8990	5700.0	94	47603	No
29	GOM_NL__2PRFIN20110408_022146_000000593101_00175_47603_0393.N1	08-APR-2011 02:21:46	Dark	58.500	103	38Zet Sgr	2.6000	9700.0	117	47603	No
30	GOM_NL__2PRFIN20110408_022524_000000593101_00176_47604_0385.N1	08-APR-2011 02:25:24	Dark	58.500	38	20Eps Sgr	1.8360	11000.	117	47604	No
31	GOM_NL__2PRFIN20110408_022935_000000583101_00176_47604_0386.N1	08-APR-2011 02:29:35	Dark	58.000	25	35Lam Sco	1.6200	28000.	116	47604	No
32	GOM_NL__2PRFIN20110408_023649_000000453101_00176_47604_0387.N1	08-APR-2011 02:36:49	Straylight	44.500	78	Alp Lup	2.3040	28000.	89	47604	No
33	GOM_NL__2PRFIN20110408_023825_000000483101_00176_47604_0388.N1	08-APR-2011 02:38:25	Straylight	48.000	81	Eta Cen	2.3560	28000.	96	47604	No
34	GOM_NL__2PRFIN20110408_024057_000000543101_00176_47604_0389.N1	08-APR-2011 02:40:57	Straylight	53.500	54	5The Cen	2.0550	4500.0	107	47604	No
35	GOM_NL__2PRFIN20110408_024558_000000473101_00176_47604_0390.N1	08-APR-2011 02:45:58	Twilight	47.000	169	46Gam Hya	2.9910	4700.0	94	47604	No
36	GOM_NL__2PRFIN20110408_024829_000000453101_00176_47604_0391.N1	08-APR-2011 02:48:29	Twilight	45.000	163	7Del Crv	2.9450	11000.	90	47604	No
37	GOM_NL__2PRFIN20110408_024952_000000533101_00176_47604_0392.N1	08-APR-2011 02:49:52	Bright	52.500	15	67Alp Vir	0.97600	28000.	105	47604	No
38	GOM_NL__2PRFIN20110408_025259_000000403101_00176_47604_0393.N1	08-APR-2011 02:52:59	Bright	40.000	121	29Gam Vir	2.7400	7200.0	80	47604	No
39	GOM_NL__2PRFIN20110408_025705_000000433101_00176_47604_0394.N1	08-APR-2011 02:57:05	Bright	42.500	138	47Eps Vir	2.8280	4700.0	85	47604	No
40	GOM_NL__2PRFIN20110408_030524_000000423101_00176_47604_0395.N1	08-APR-2011 03:05:24	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	47604	No
41	GOM_NL__2PRFIN20110408_030848_000000363101_00176_47604_0396.N1	08-APR-2011 03:08:48	Bright	35.500	87	64Gam UMa	2.4330	11000.	71	47604	No
42	GOM_NL__2PRFIN20110408_031016_000000433101_00176_47604_0397.N1	08-APR-2011 03:10:16	Bright	43.000	32	77Eps UMa	1.7630	11000.	86	47604	No

279	GOM_NL__2PRFIN20110408_212754_000000603101_00187_47615_0708.N1	08-APR-2011 21:27:54	Bright	60.000	152	12Alp2CVn	2.8900	11000.	120	47615	No
280	GOM_NL__2PRFIN20110408_213121_000000543101_00187_47615_0709.N1	08-APR-2011 21:31:21	Bright	54.000	87	64Gam UMa	2.4330	11000.	108	47615	No
281	GOM_NL__2PRFIN20110408_213247_000000383101_00187_47615_0710.N1	08-APR-2011 21:32:47	Bright	38.000	32	77Eps UMa	1.7630	11000.	76	47615	No
282	GOM_NL__2PRFIN20110408_213911_000000413101_00187_47615_0711.N1	08-APR-2011 21:39:11	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47615	No
283	GOM_NL__2PRFIN20110408_214114_000000483101_00187_47615_0712.N1	08-APR-2011 21:41:14	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	47615	No
284	GOM_NL__2PRFIN20110408_214901_000000383101_00187_47615_0713.N1	08-APR-2011 21:49:01	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	47615	No
285	GOM_NL__2PRFIN20110408_215342_000000263101_00187_47615_0714.N1	08-APR-2011 21:53:42	Twilight	26.000	144	18Del Cyg	2.8600	11000.	52	47615	No
286	GOM_NL__2PRFIN20110408_215556_000000493101_00187_47615_0715.N1	08-APR-2011 21:55:56	Bright	48.500	66	37Gam Cyg	2.2080	5900.0	97	47615	No
287	GOM_NL__2PRFIN20110408_215813_000000493101_00187_47615_0716.N1	08-APR-2011 21:58:13	Bright	49.000	92	53Eps Cyg	2.5000	4500.0	98	47615	No
288	GOM_NL__2PRFIN20110408_220510_000000493101_00187_47615_0717.N1	08-APR-2011 22:05:10	Twilight	48.500	61	8Eps Peg	2.1000	3900.0	97	47615	No
289	GOM_NL__2PRFIN20110408_220959_000000473101_00187_47615_0718.N1	08-APR-2011 22:09:59	Dark	46.500	154	22Bet Aqr	2.8990	5700.0	93	47615	No
290	GOM_NL__2PRFIN20110408_222451_000000583101_00188_47616_0710.N1	08-APR-2011 22:24:51	Dark	58.000	103	38Zet Sgr	2.6000	9700.0	116	47616	No
291	GOM_NL__2PRFIN20110408_222830_000000613101_00188_47616_0711.N1	08-APR-2011 22:28:30	Dark	60.500	38	20Eps Sgr	1.8360	11000.	121	47616	No
292	GOM_NL__2PRFIN20110408_223239_000000513101_00188_47616_0712.N1	08-APR-2011 22:32:39	Dark	51.000	25	35Lam Sco	1.6200	28000.	102	47616	No
293	GOM_NL__2PRFIN20110408_223943_000000433101_00188_47616_0713.N1	08-APR-2011 22:39:43	Straylight	42.500	78	Alp Lup	2.3040	28000.	85	47616	No
294	GOM_NL__2PRFIN20110408_224119_000000463101_00188_47616_0714.N1	08-APR-2011 22:41:19	Straylight	46.000	81	Eta Cen	2.3560	28000.	92	47616	No
295	GOM_NL__2PRFIN20110408_224350_000000493101_00188_47616_0715.N1	08-APR-2011 22:43:50	Straylight	49.000	54	5The Cen	2.0550	4500.0	98	47616	No
296	GOM_NL__2PRFIN20110408_224849_000000463101_00188_47616_0716.N1	08-APR-2011 22:48:49	Twilight	46.000	169	46Gam Hya	2.9910	4700.0	92	47616	No
297	GOM_NL__2PRFIN20110408_225240_000000543101_00188_47616_0717.N1	08-APR-2011 22:52:40	Bright	53.500	15	67Alp Vir	0.97600	28000.	107	47616	No
298	GOM_NL__2PRFIN20110408_225546_000000403101_00188_47616_0718.N1	08-APR-2011 22:55:46	Bright	39.500	121	29Gam Vir	2.7400	7200.0	79	47616	No
299	GOM_NL__2PRFIN20110408_225949_000000433101_00188_47616_0719.N1	08-APR-2011 22:59:49	Bright	42.500	138	47Eps Vir	2.8280	4700.0	85	47616	No
300	GOM_NL__2PRFIN20110408_230807_000000413101_00188_47616_0720.N1	08-APR-2011 23:08:07	Bright	40.500	152	12Alp2CVn	2.8900	11000.	81	47616	No
301	GOM_NL__2PRFIN20110408_231135_000000363101_00188_47616_0721.N1	08-APR-2011 23:11:35	Bright	36.000	87	64Gam UMa	2.4330	11000.	72	47616	No
302	GOM_NL__2PRFIN20110408_231300_000000413101_00188_47616_0722.N1	08-APR-2011 23:13:00	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	47616	No
303	GOM_NL__2PRFIN20110408_231925_000000413101_00188_47616_0723.N1	08-APR-2011 23:19:25	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47616	No
304	GOM_NL__2PRFIN20110408_232127_000000473101_00188_47616_0724.N1	08-APR-2011 23:21:27	Bright	47.000	119	14Eta Dra	2.7270	4700.0	94	47616	No
305	GOM_NL__2PRFIN20110408_232915_000000393101_00188_47616_0725.N1	08-APR-2011 23:29:15	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	47616	No
306	GOM_NL__2PRFIN20110408_233428_000000453101_00188_47616_0726.N1	08-APR-2011 23:34:28	Bright	44.500	19	50Alp Cyg	1.2460	10500.	89	47616	No
307	GOM_NL__2PRFIN20110408_233610_000000693101_00188_47616_0727.N1	08-APR-2011 23:36:10	Bright	69.000	66	37Gam Cyg	2.2080	5900.0	138	47616	No
308	GOM_NL__2PRFIN20110408_233827_000000483101_00188_47616_0728.N1	08-APR-2011 23:38:27	Bright	47.500	92	53Eps Cyg	2.5000	4500.0	95	47616	No
309	GOM_NL__2PRFIN20110408_234525_000000493101_00188_47616_0729.N1	08-APR-2011 23:45:25	Twilight	49.000	61	8Eps Peg	2.1000	3900.0	98	47616	No
310	GOM_NL__2PRFIN20110408_235013_000000443101_00188_47616_0730.N1	08-APR-2011 23:50:13	Dark	43.500	154	22Bet Aqr	2.8990	5700.0	87	47616	No

3. Quality information per product

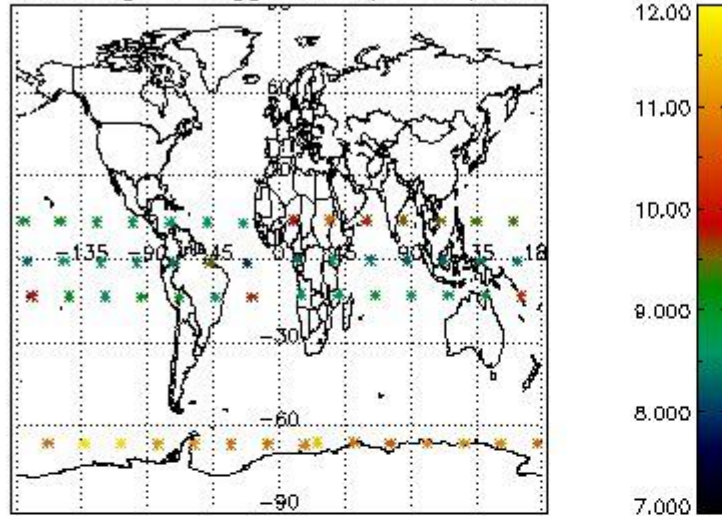
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

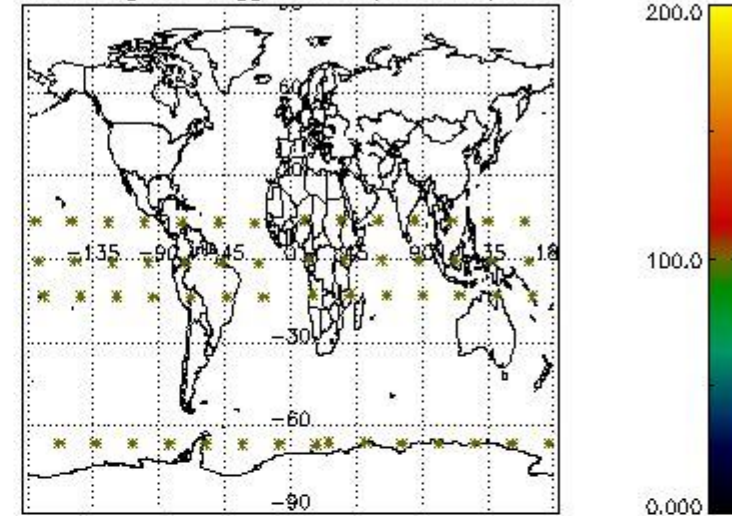


3.2 Plot quality information per product (world map)

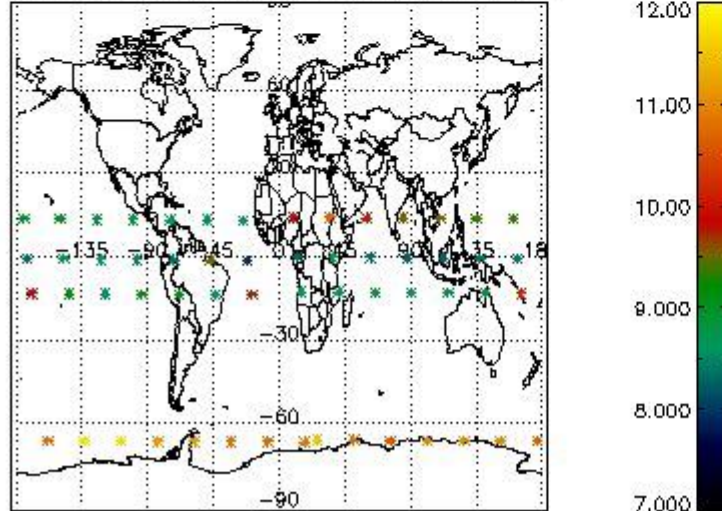
Percentage of flagged data per O3 profile



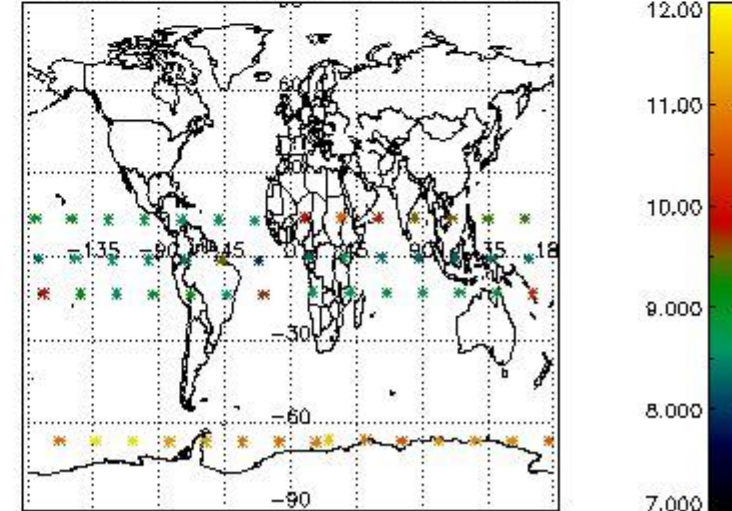
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

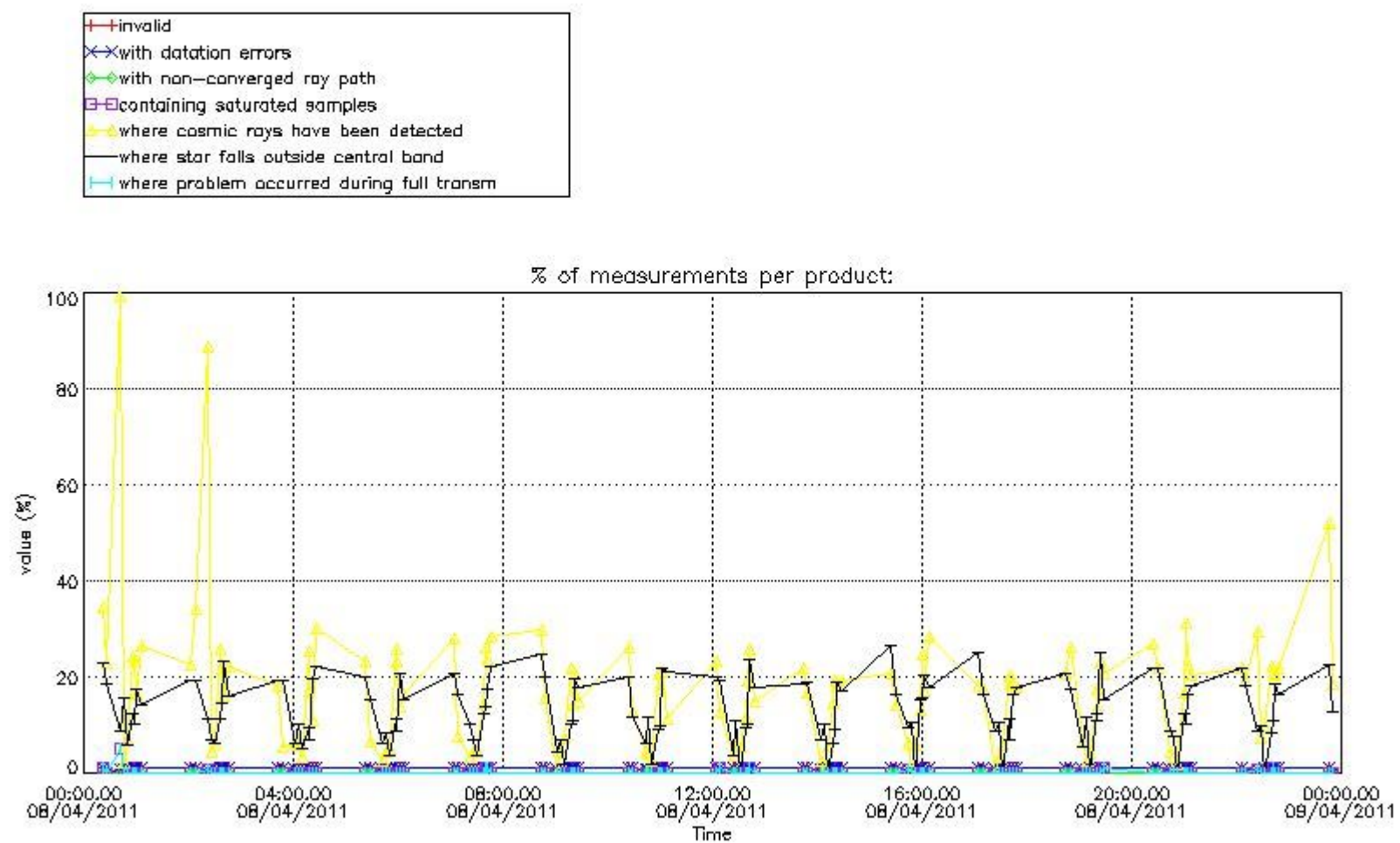


4. Level 1 quality information per product

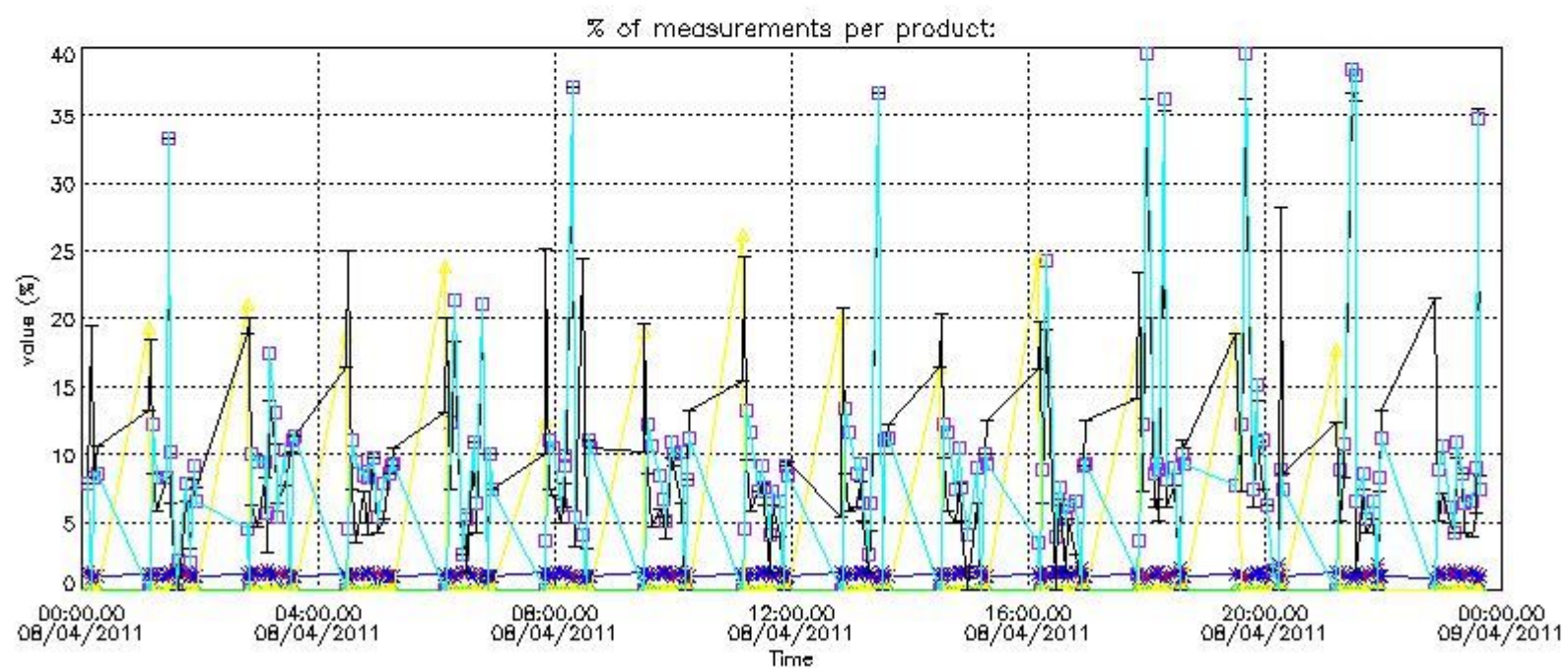
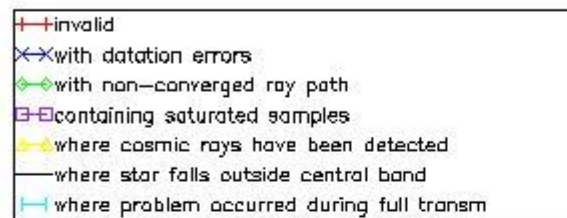
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

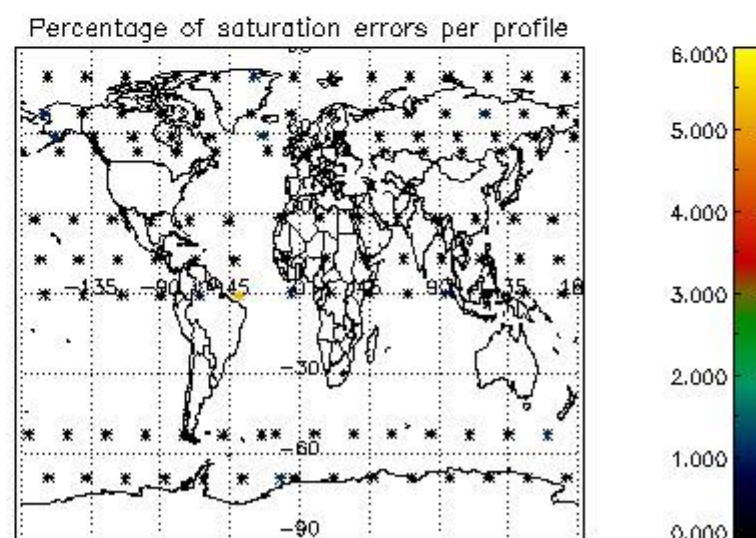
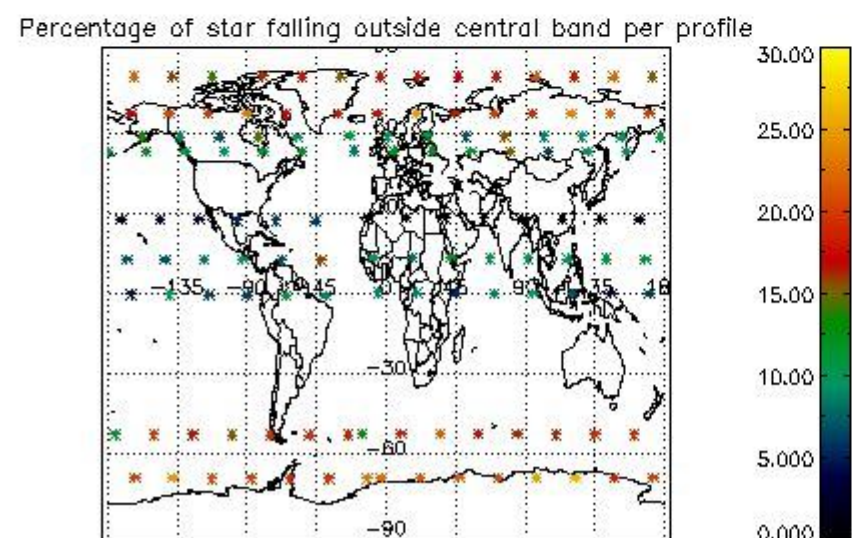
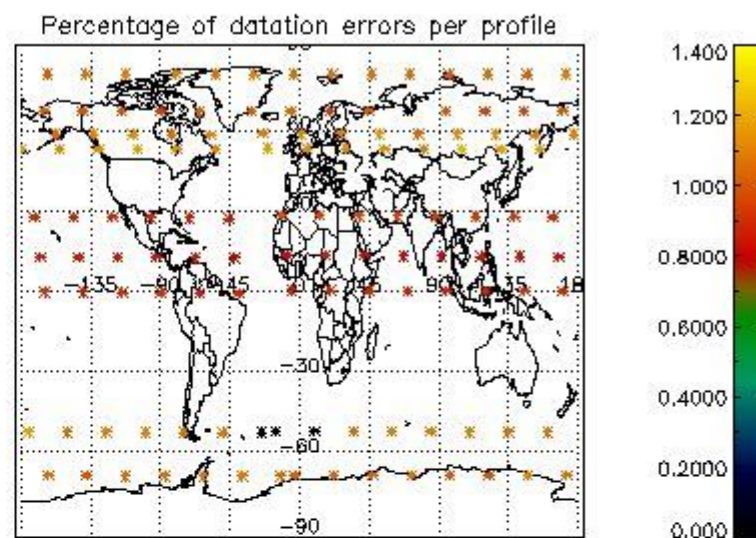
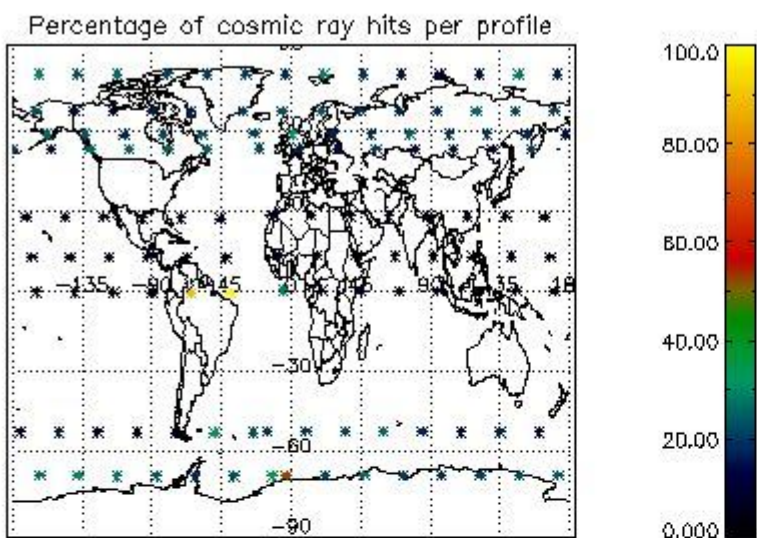


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

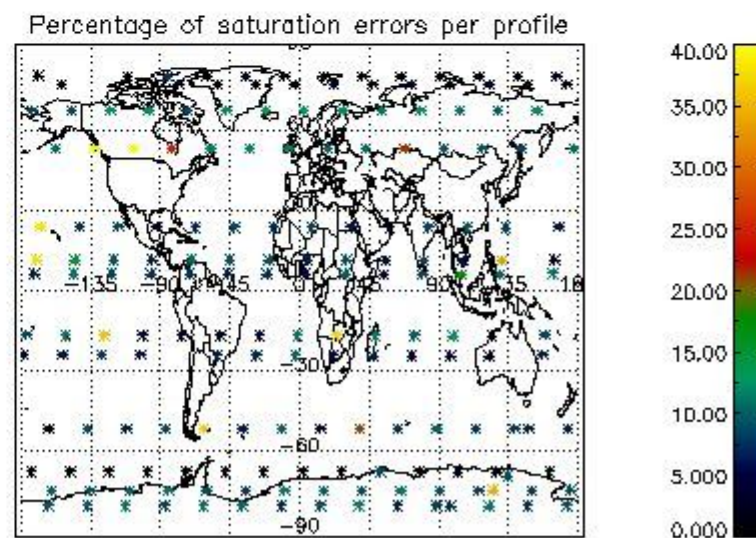
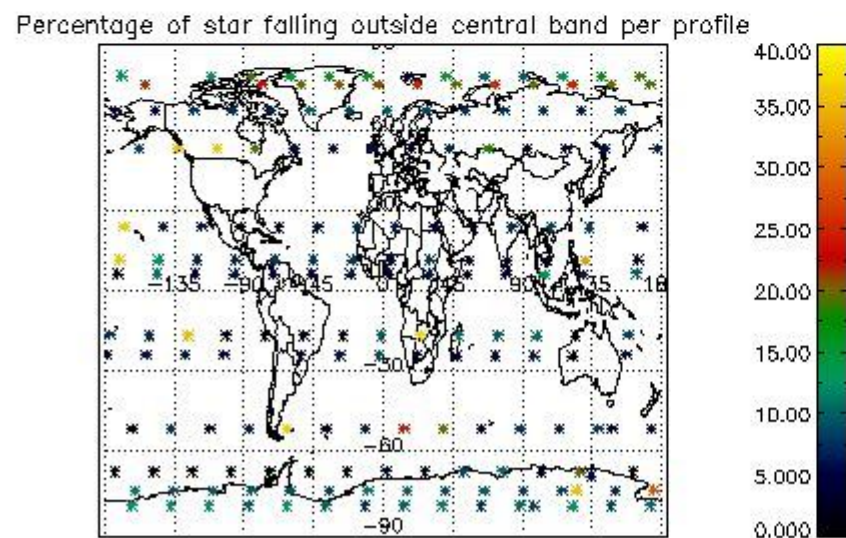
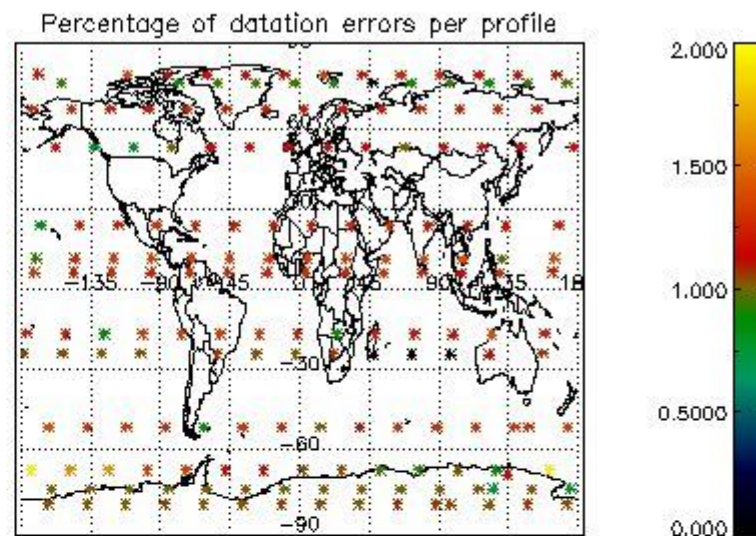
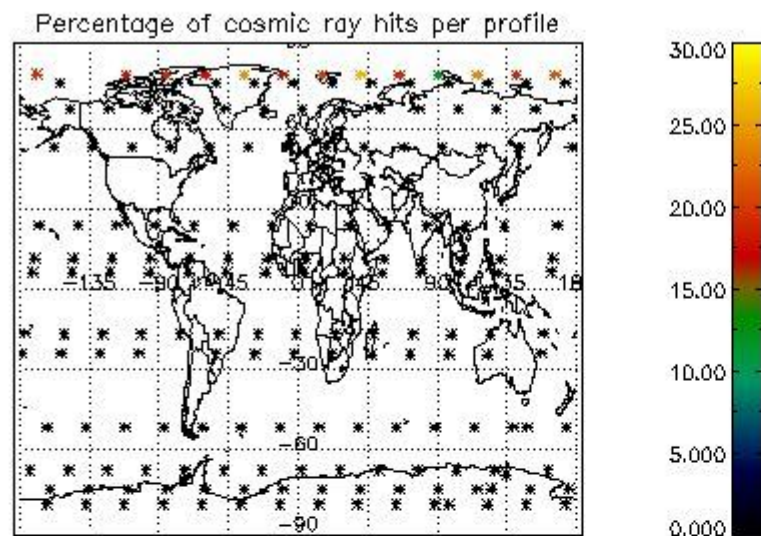


4.2 Plot quality information per product coming from level 1b processing (world map)

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

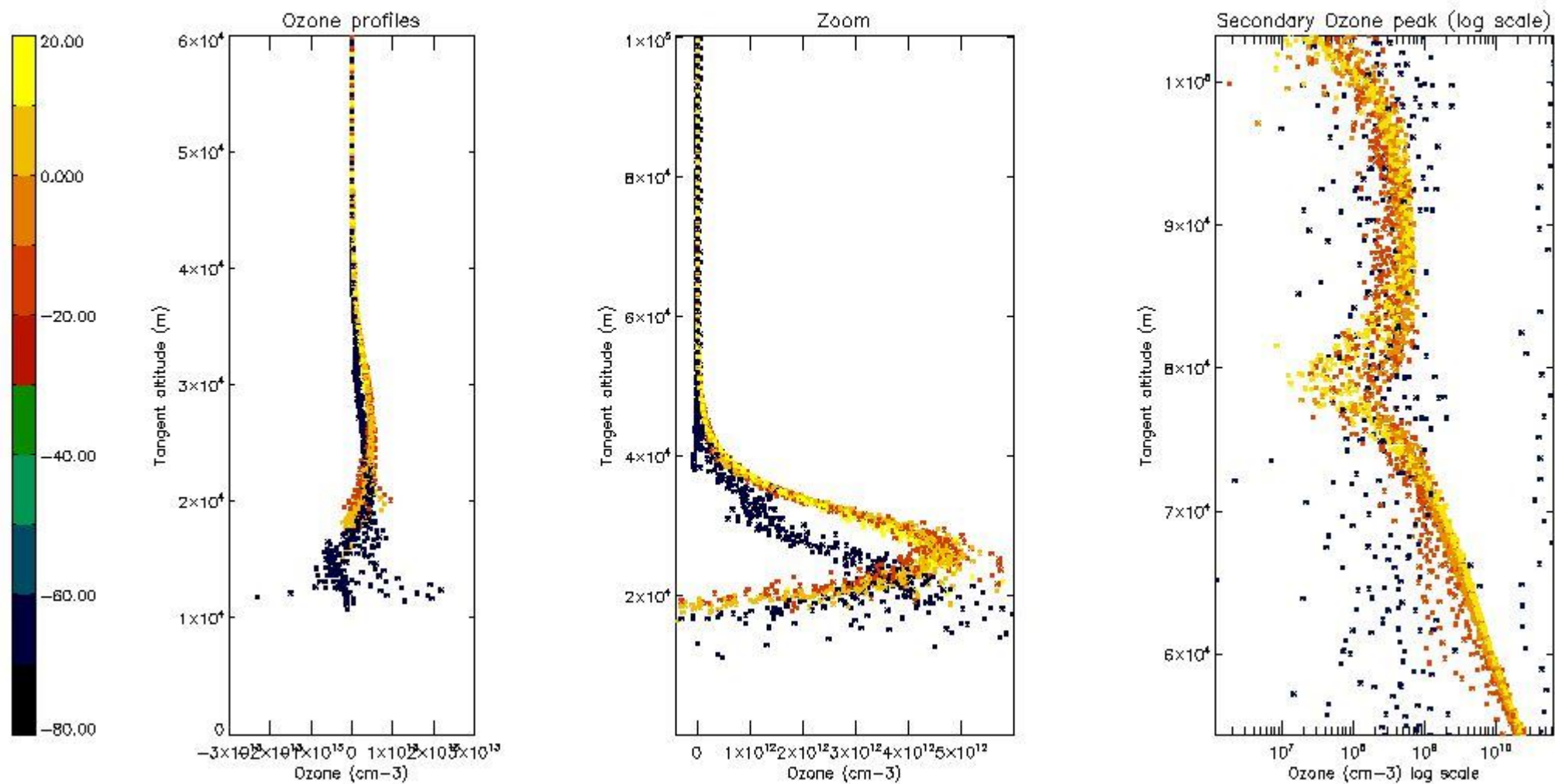
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	22
STD < 20	12

STD < 10	9
STD < 5	6

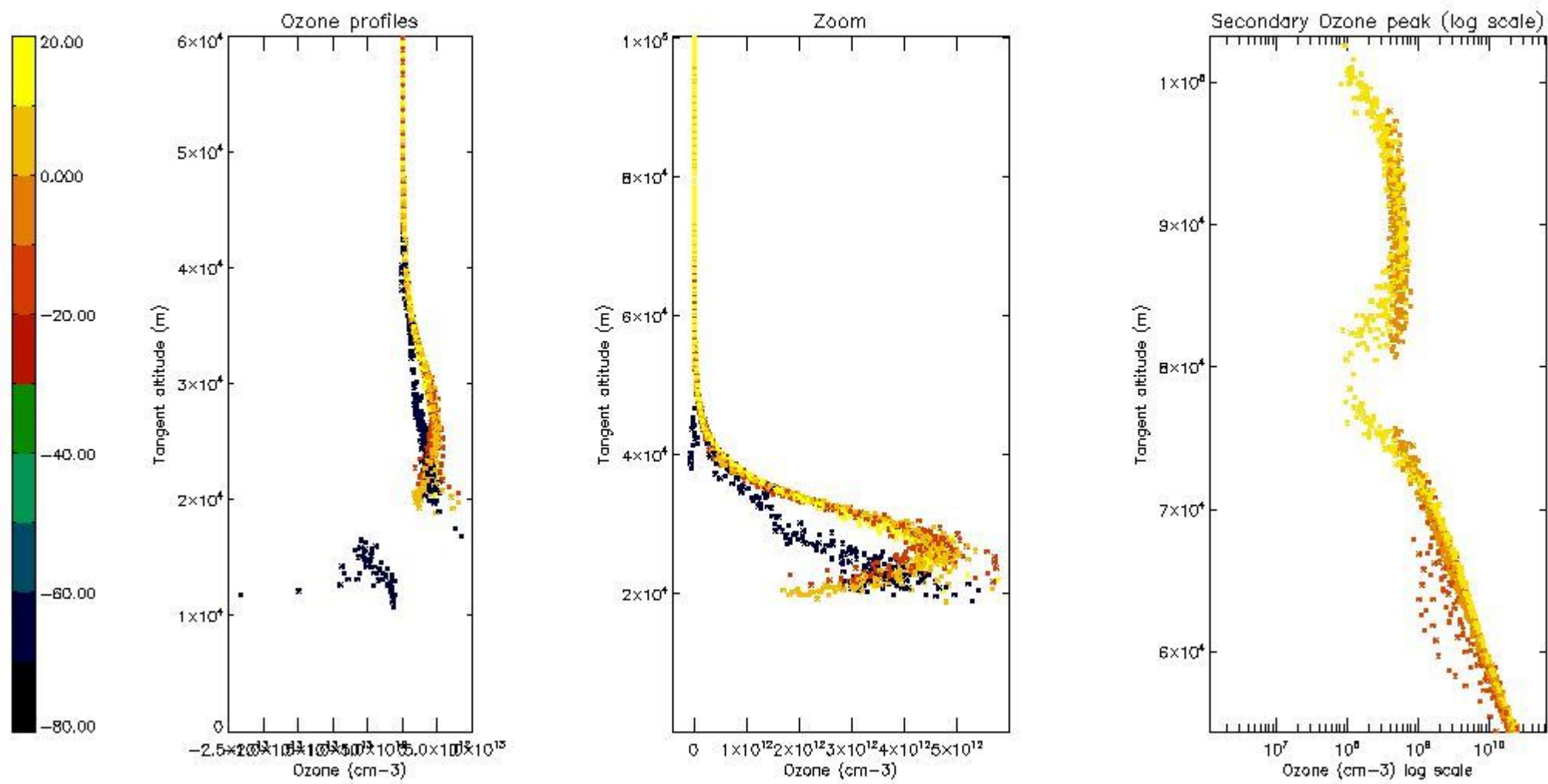
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



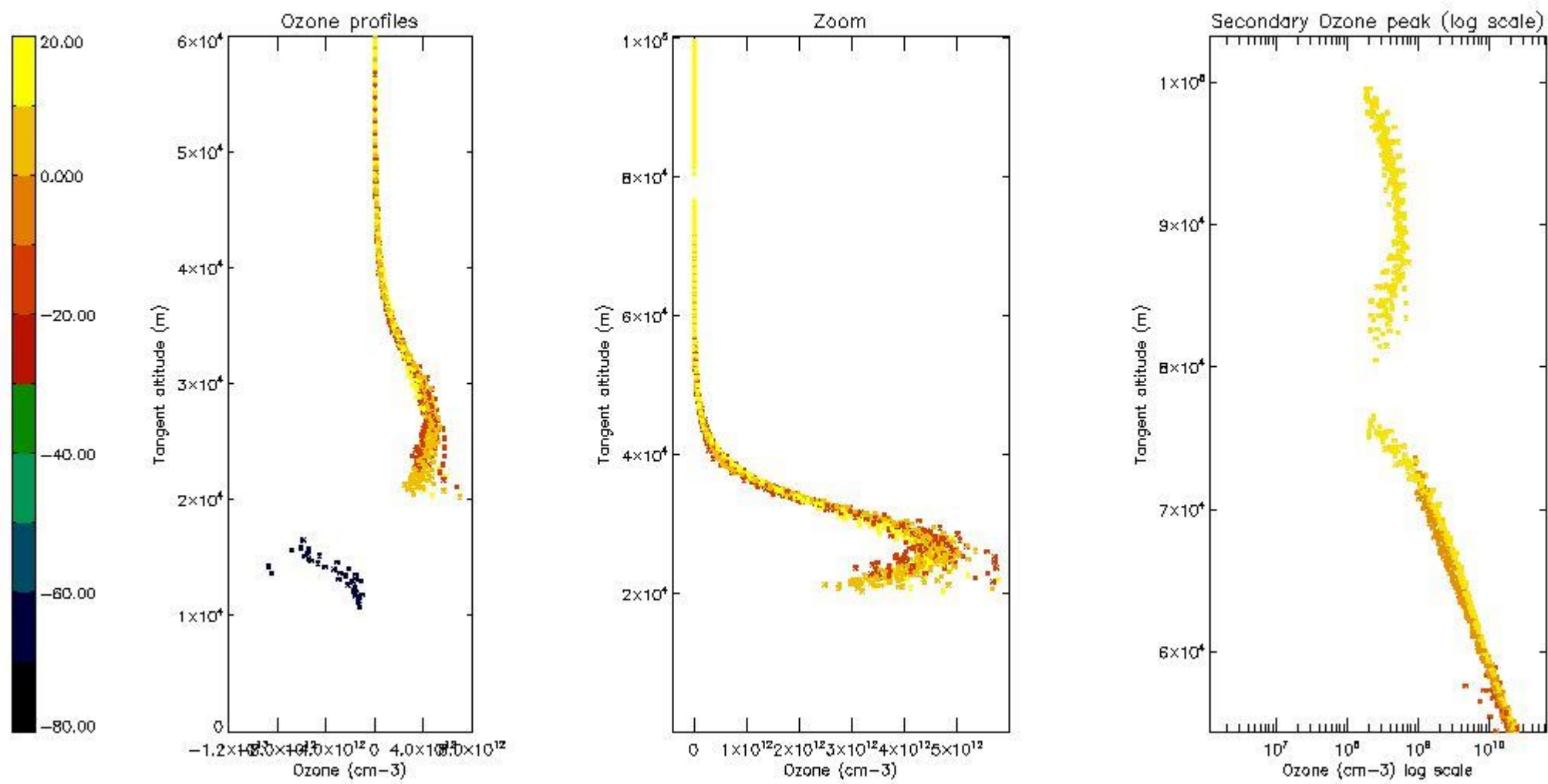
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



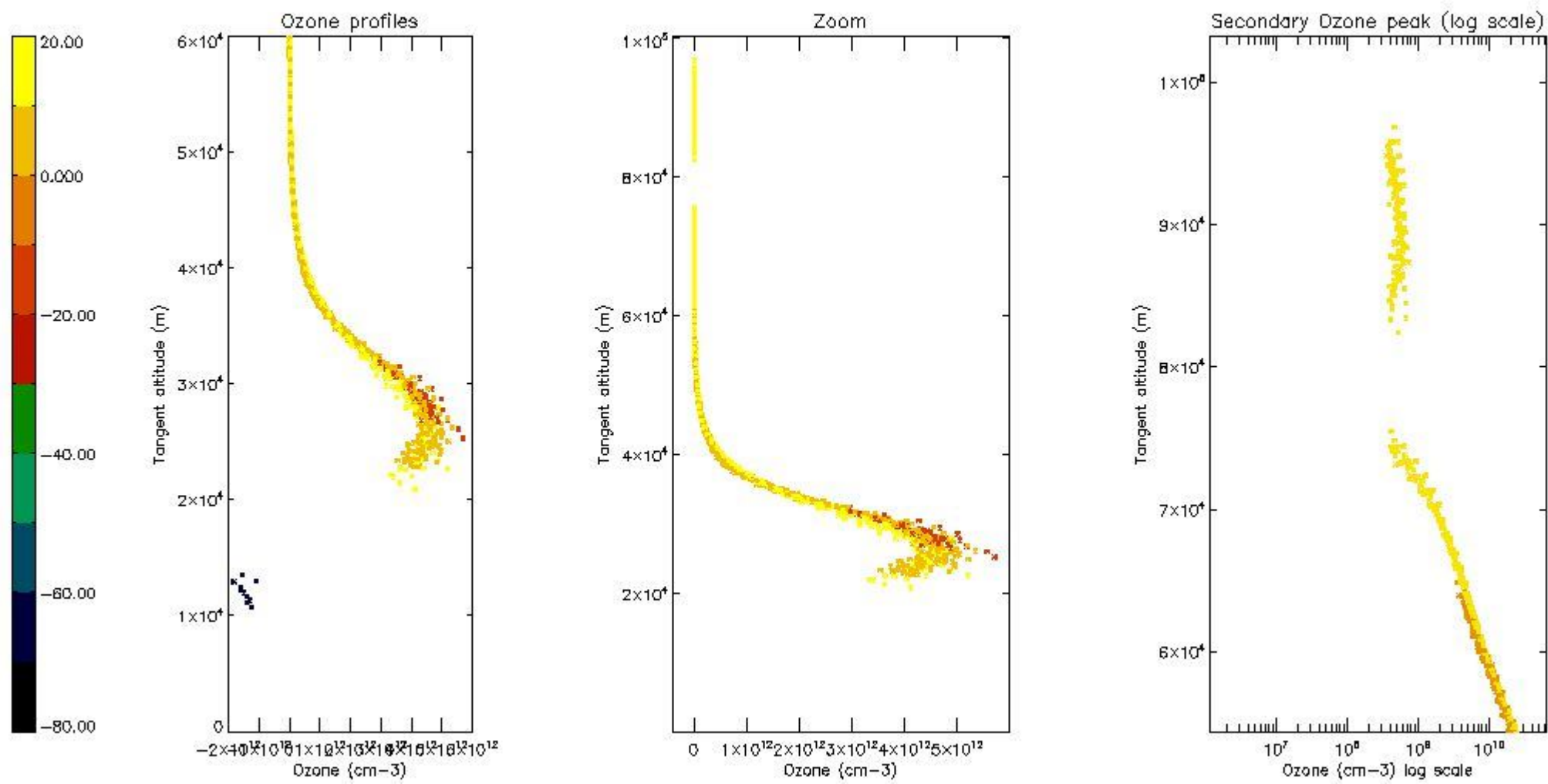
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



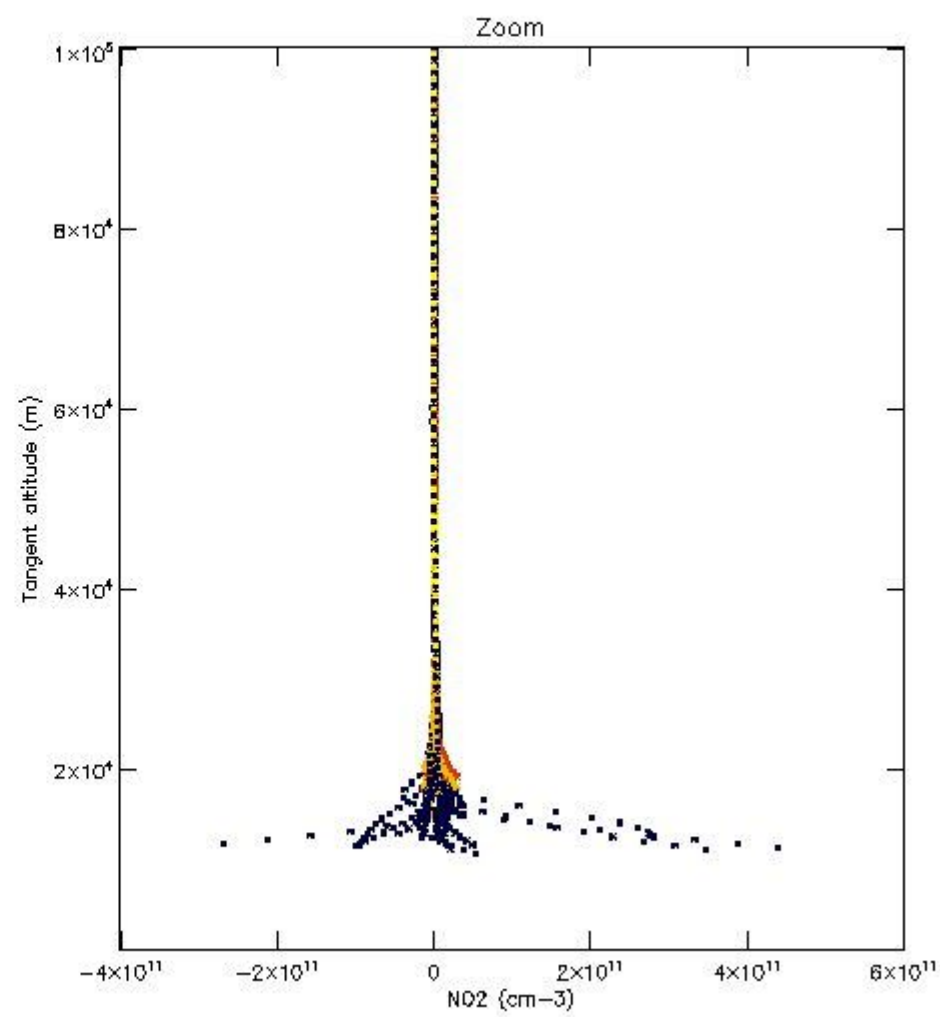
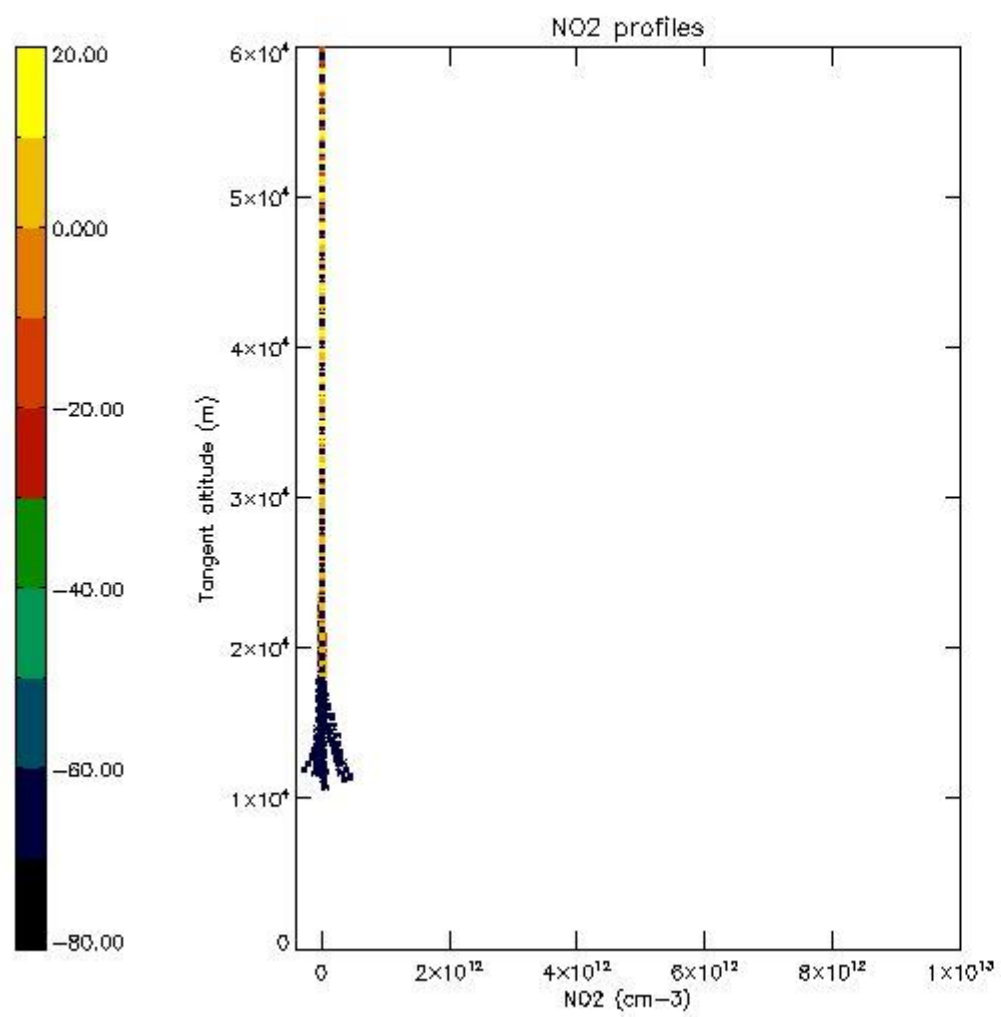
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



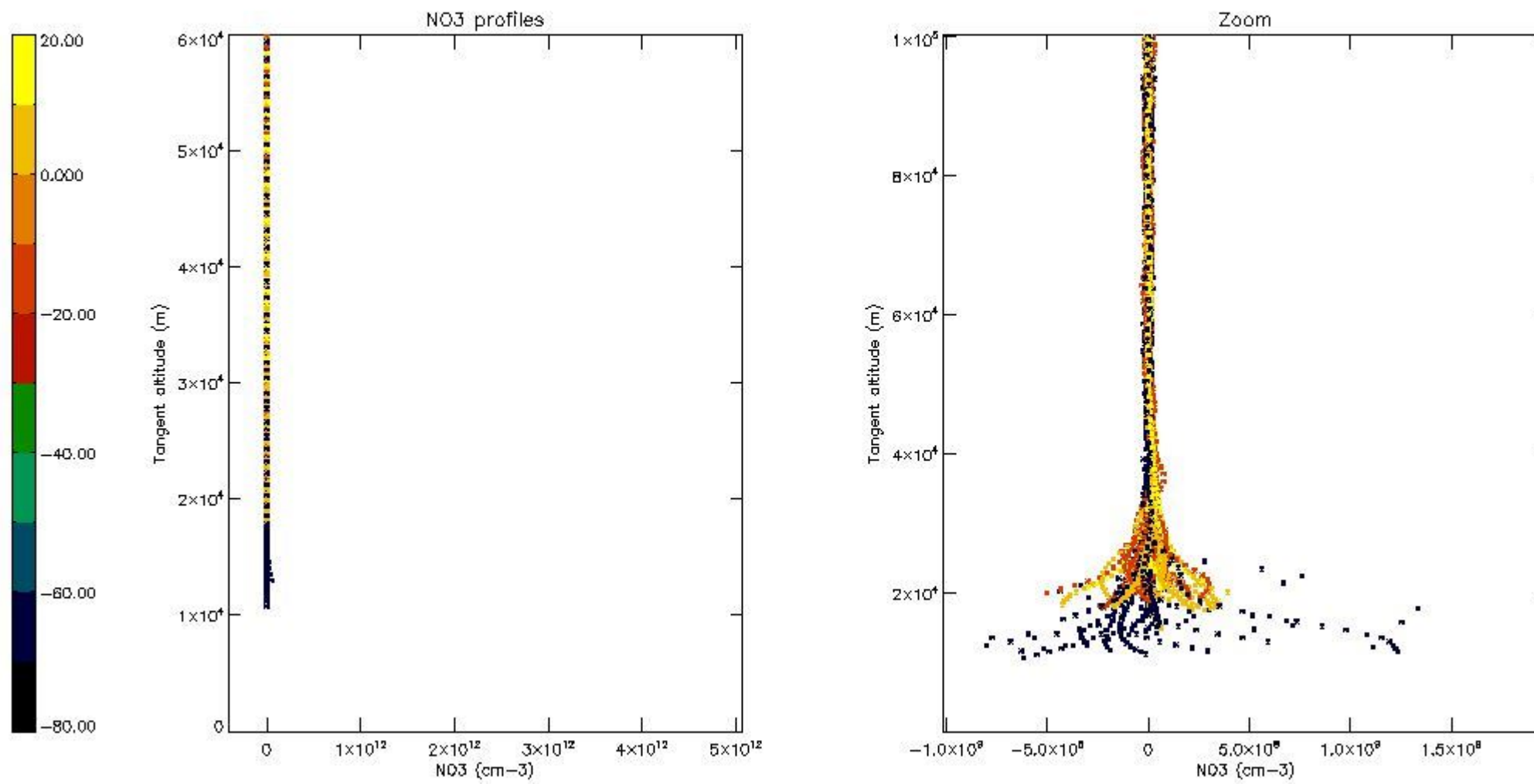
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

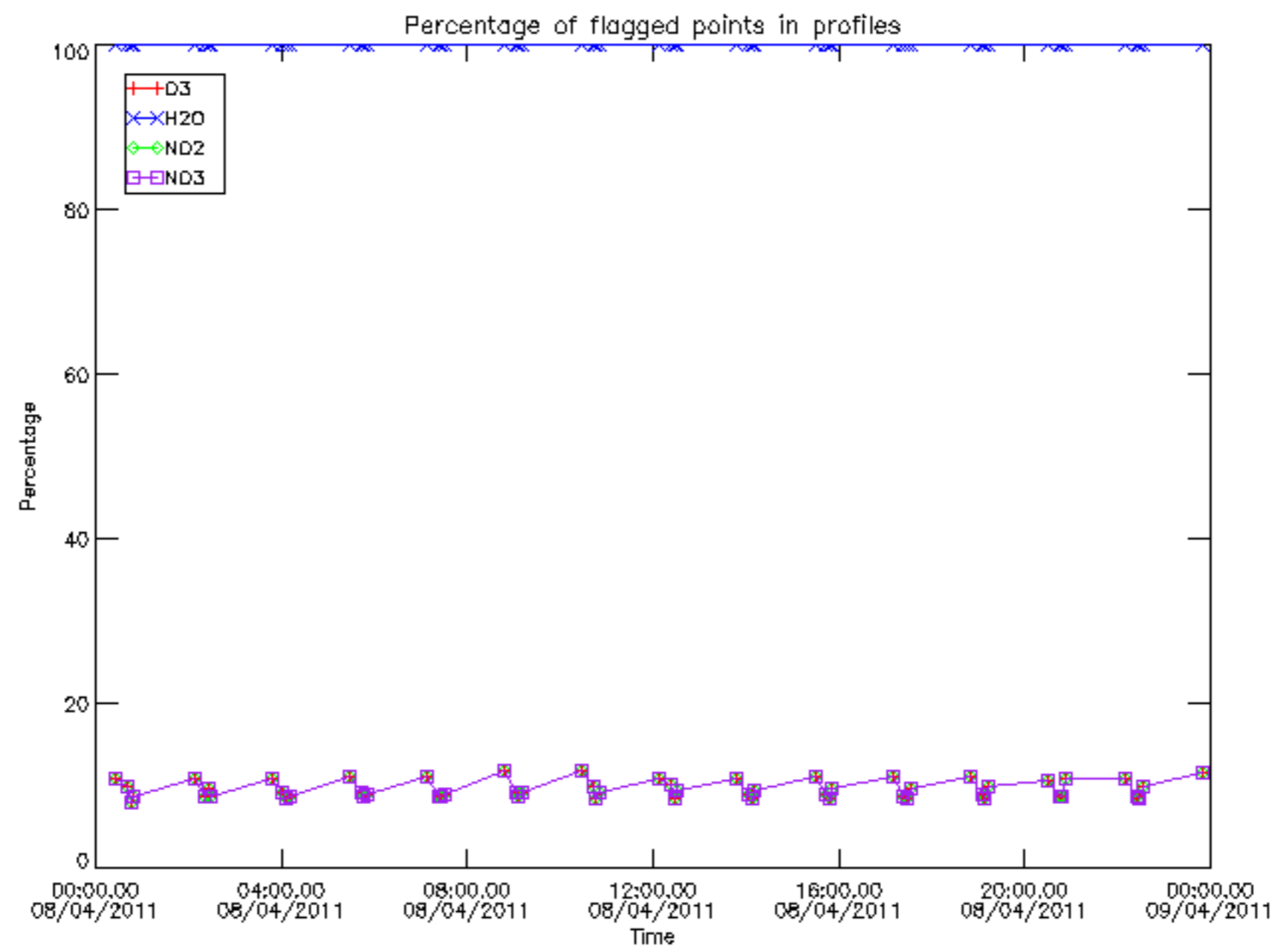
The colorbar represents the latitude.



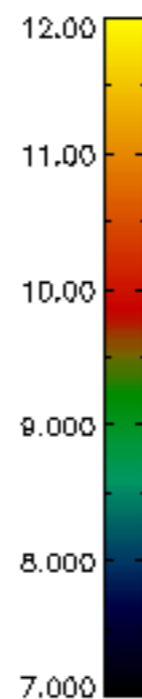
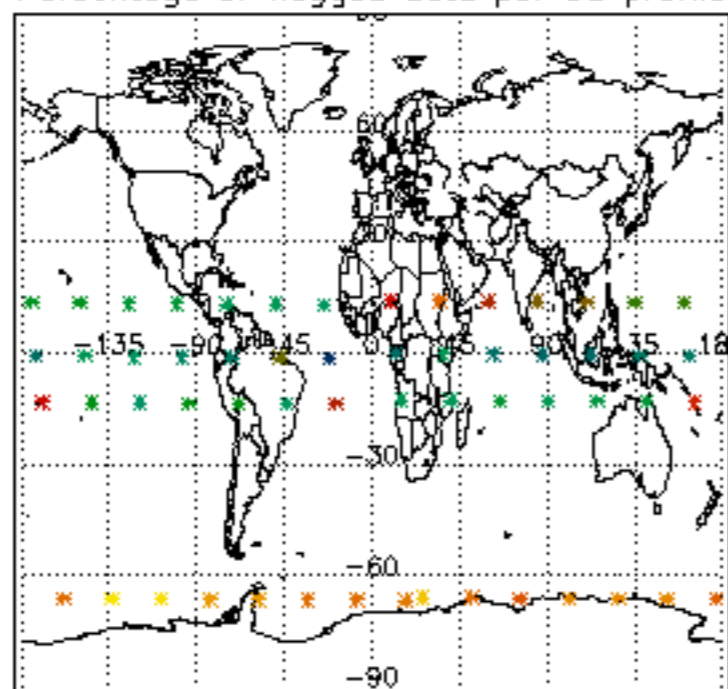
6. Auxiliary Data Files used for the production reported in section 2

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.

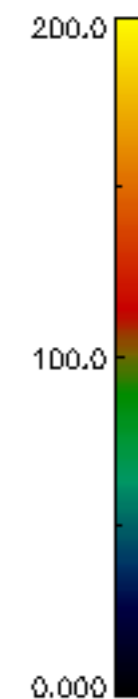
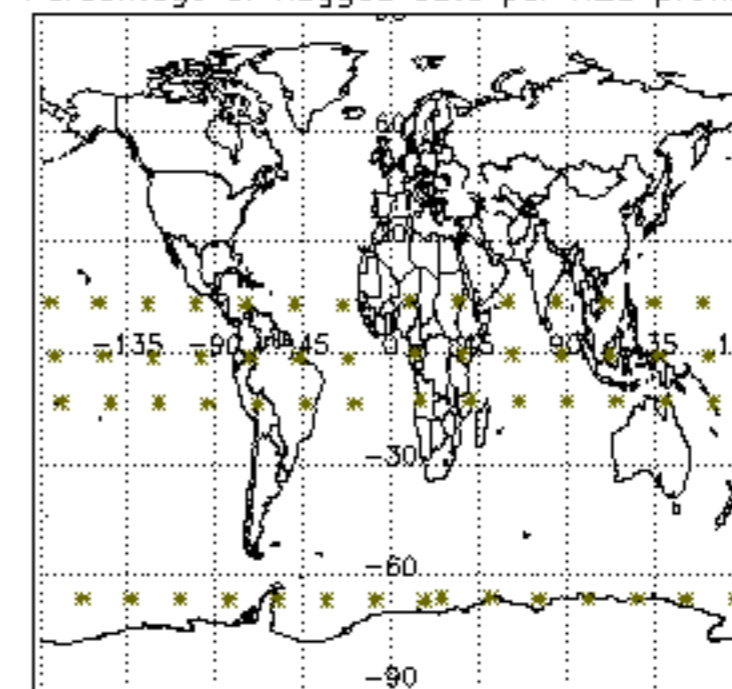
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	08-APR-2011 00:06:01
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	08-APR-2011 00:06:01
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	08-APR-2011 00:06:01



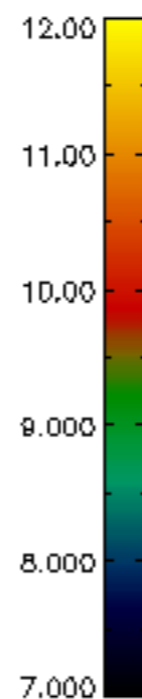
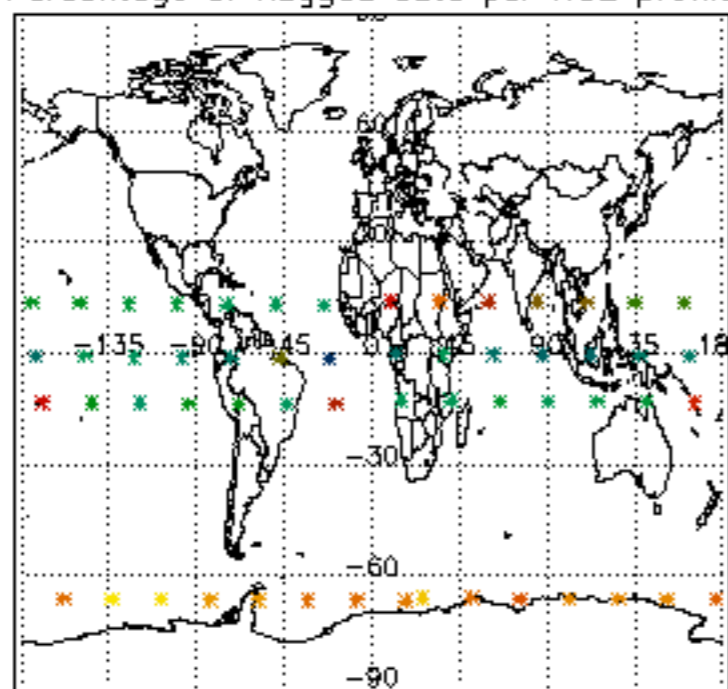
Percentage of flagged data per D3 profile



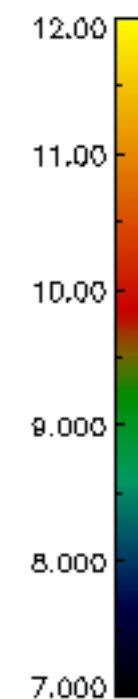
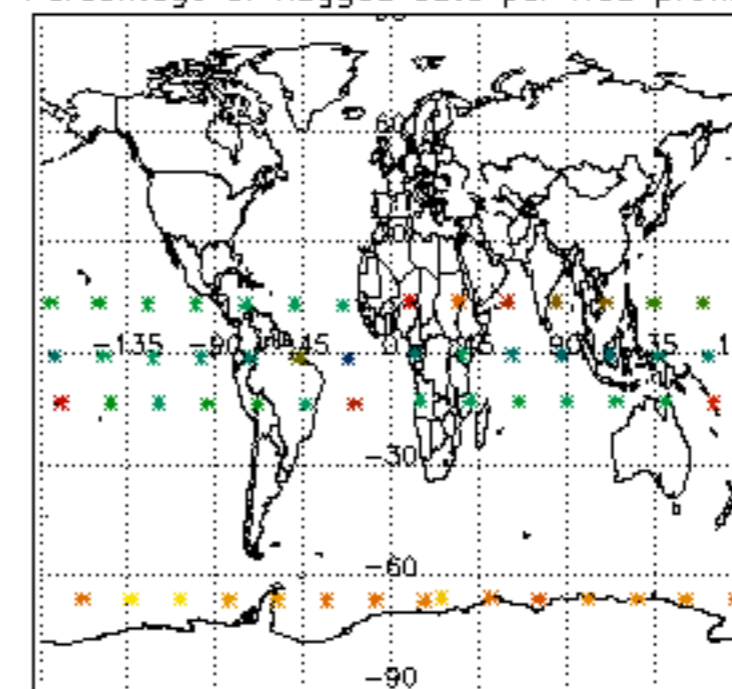
Percentage of flagged data per H2O profile

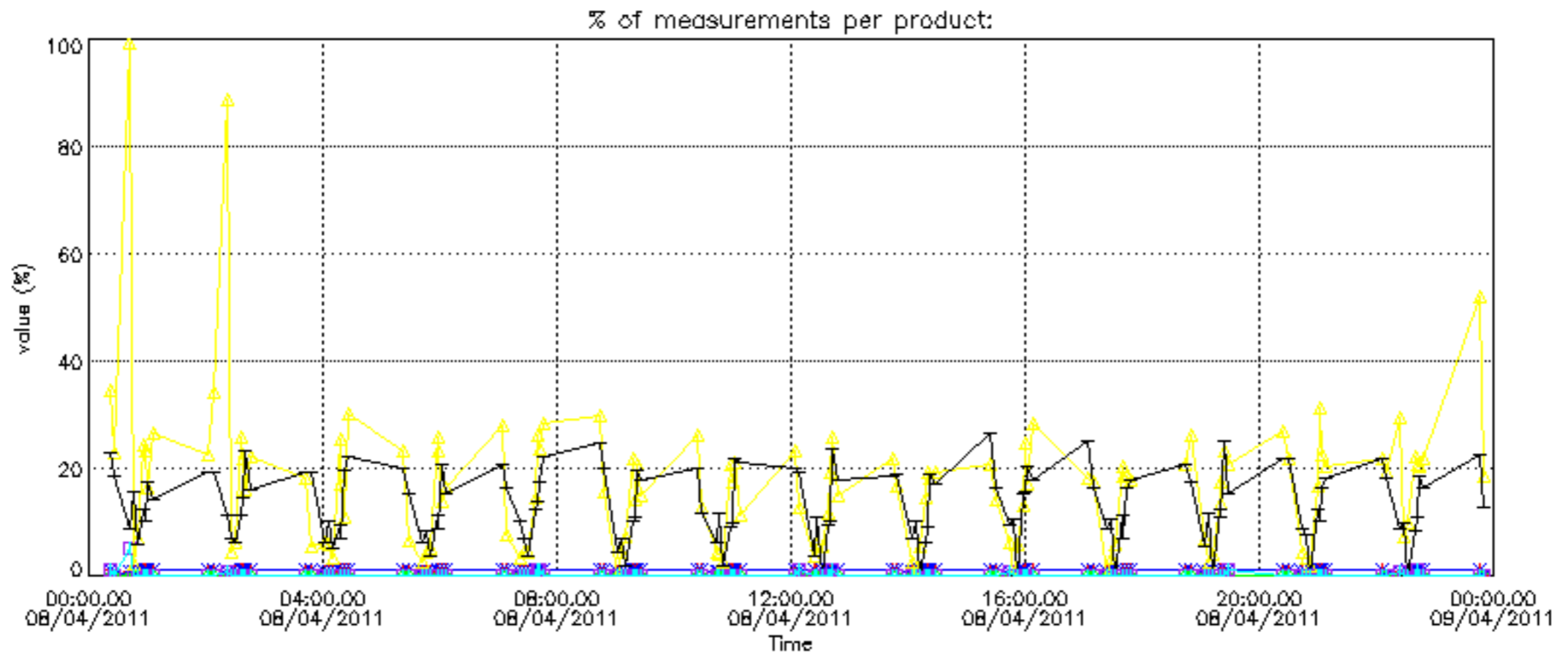


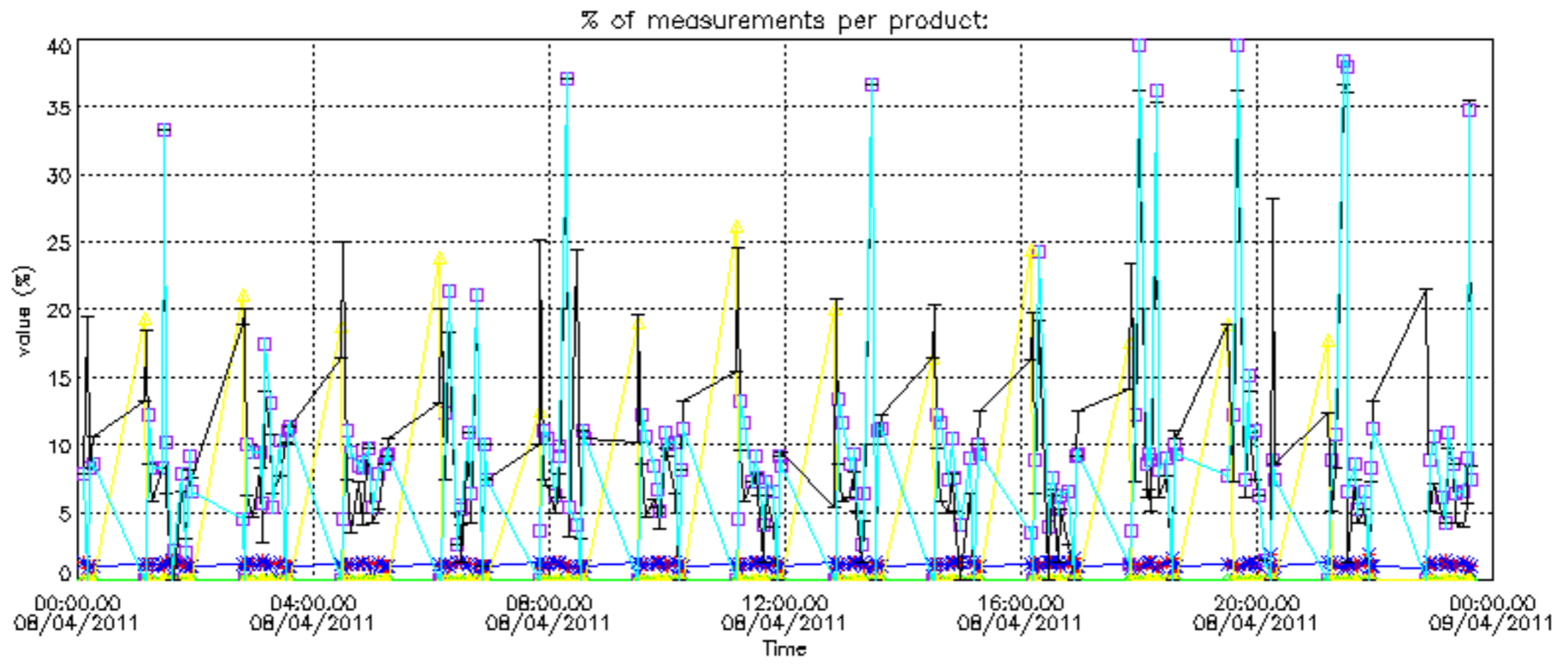
Percentage of flagged data per NO2 profile



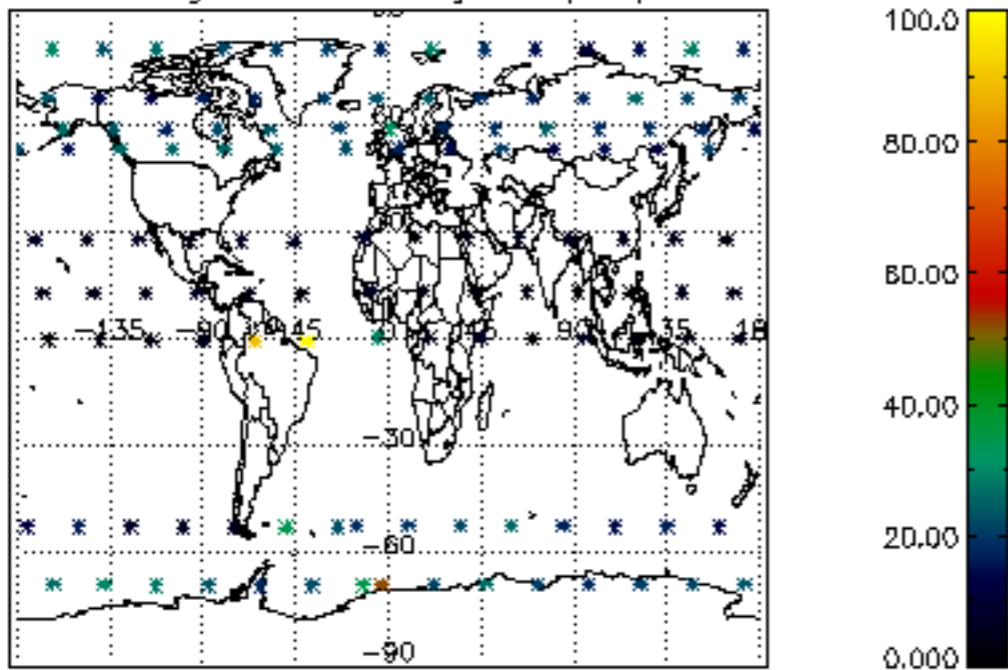
Percentage of flagged data per NO3 profile



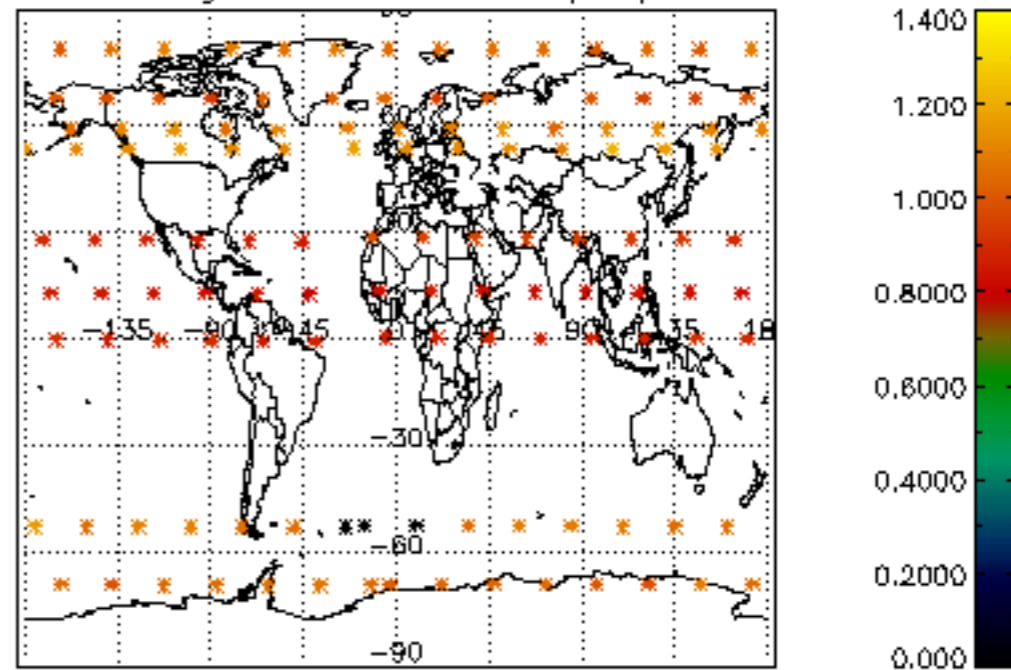




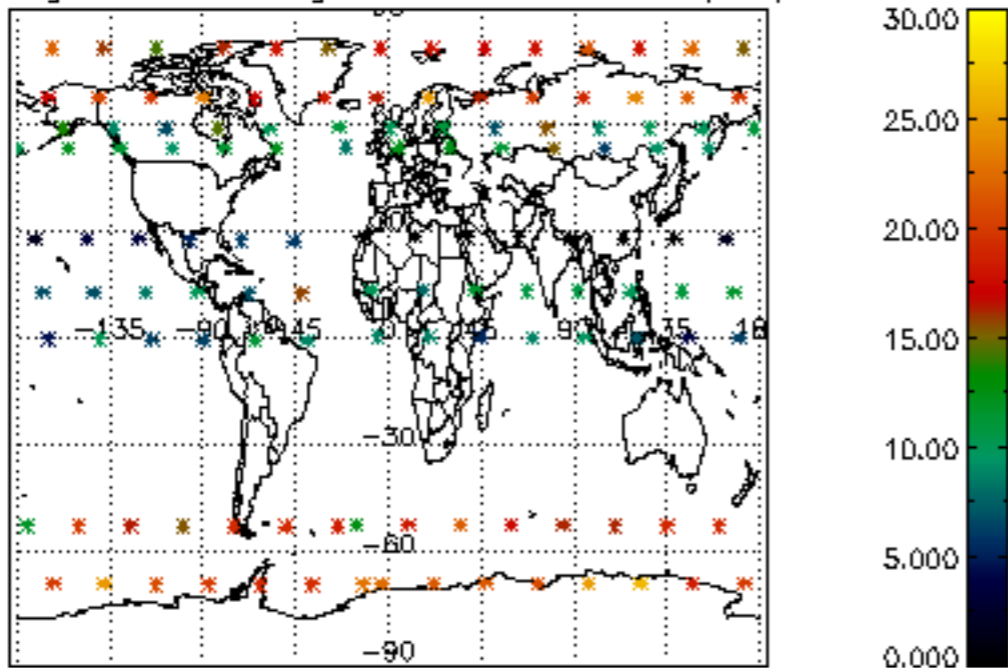
Percentage of cosmic ray hits per profile



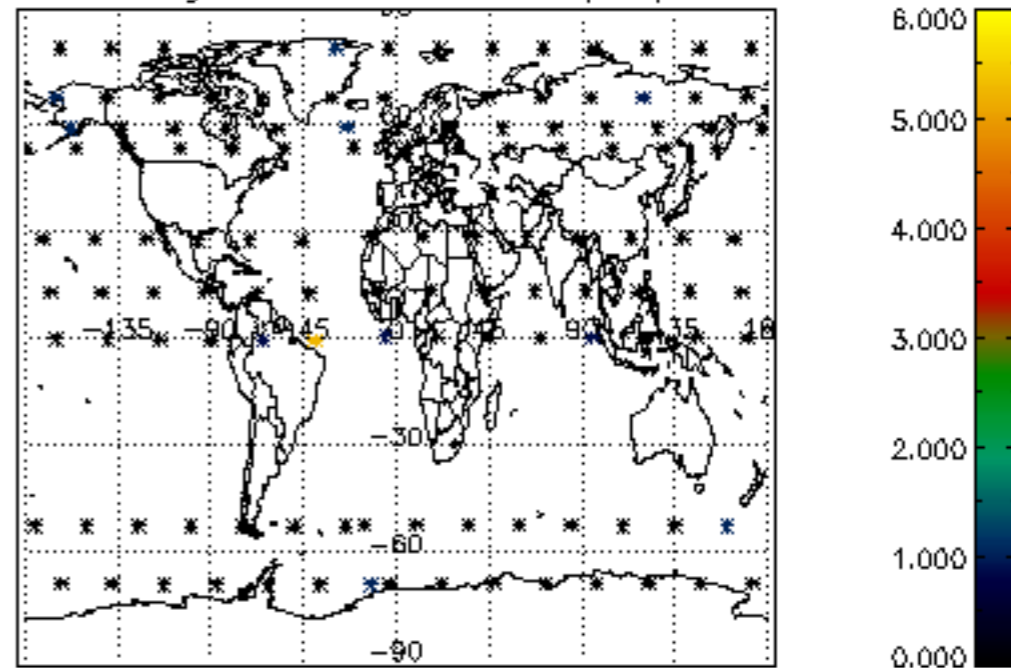
Percentage of datation errors per profile



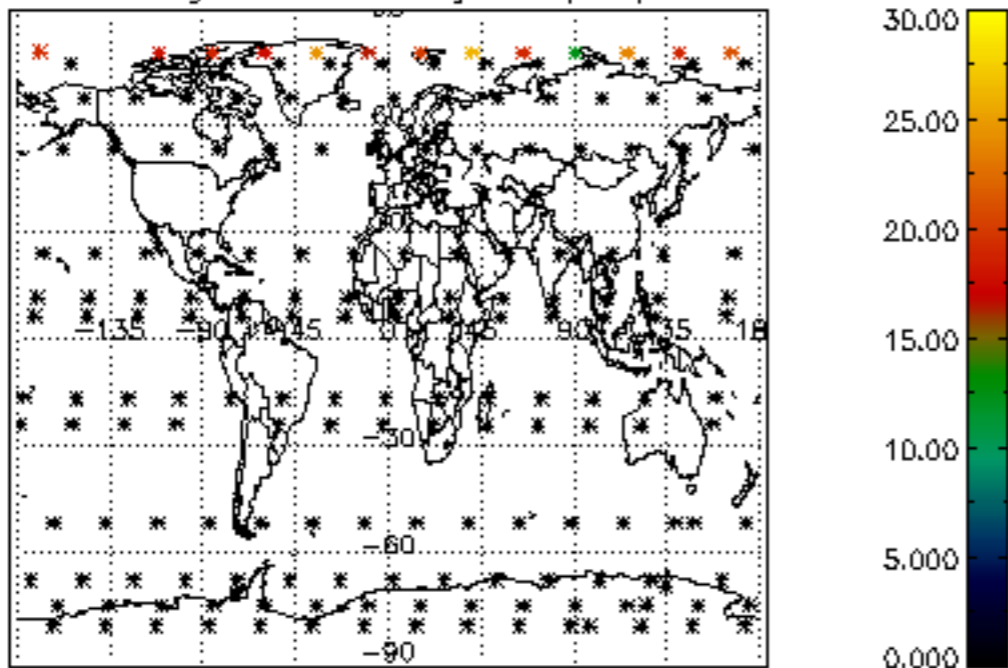
Percentage of star falling outside central band per profile



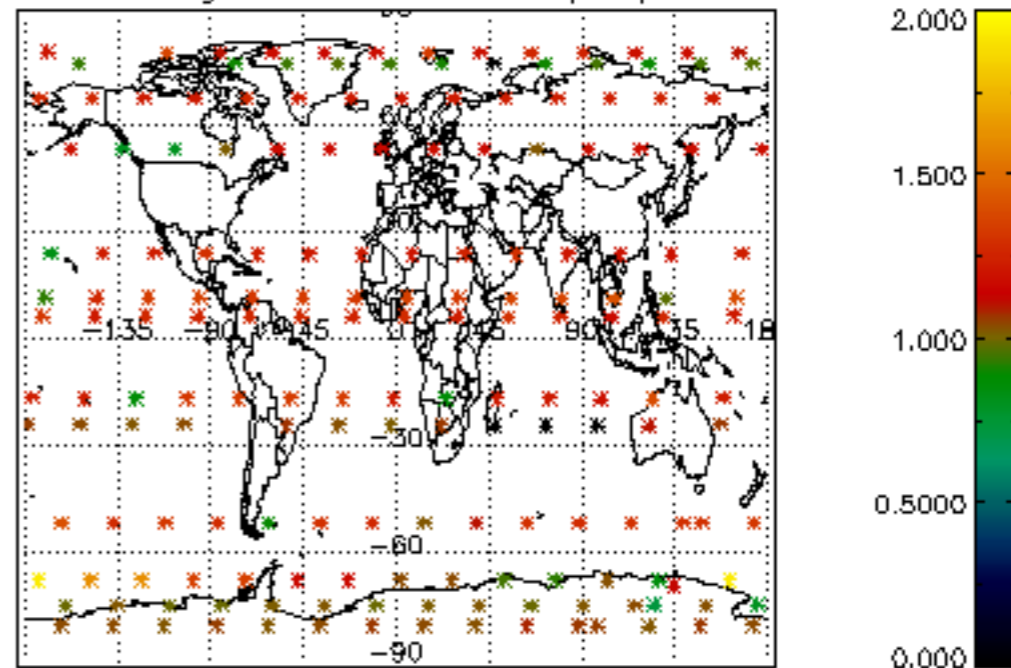
Percentage of saturation errors per profile



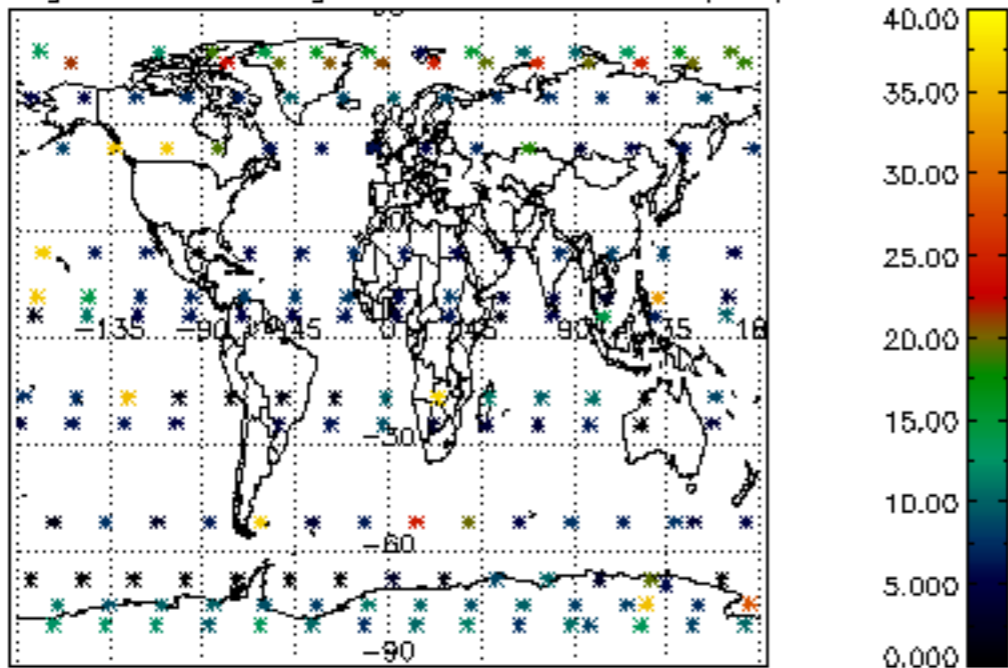
Percentage of cosmic ray hits per profile



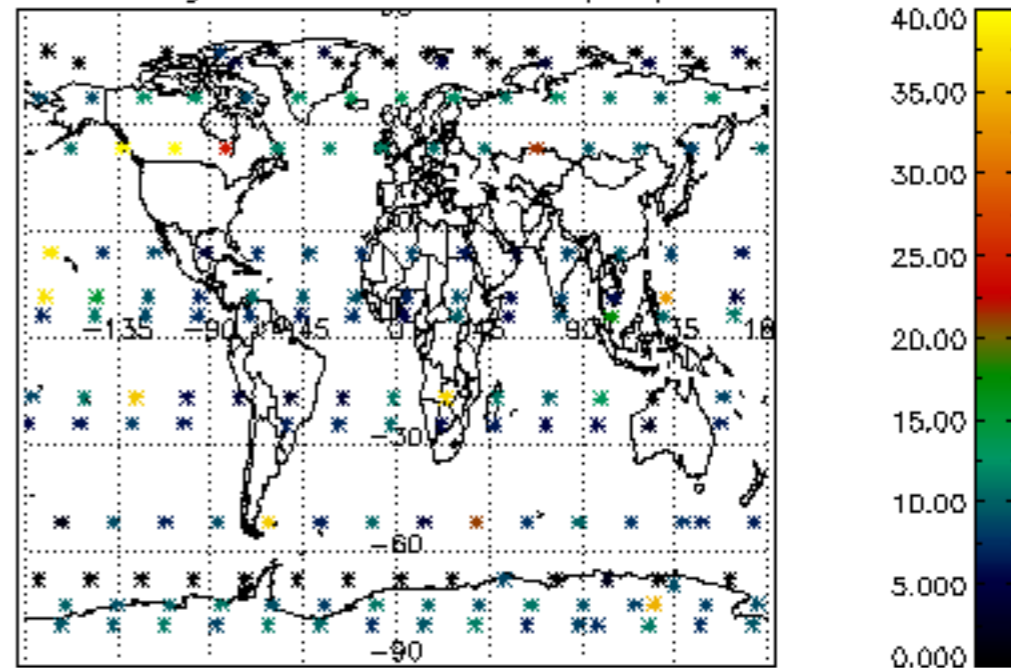
Percentage of datation errors per profile

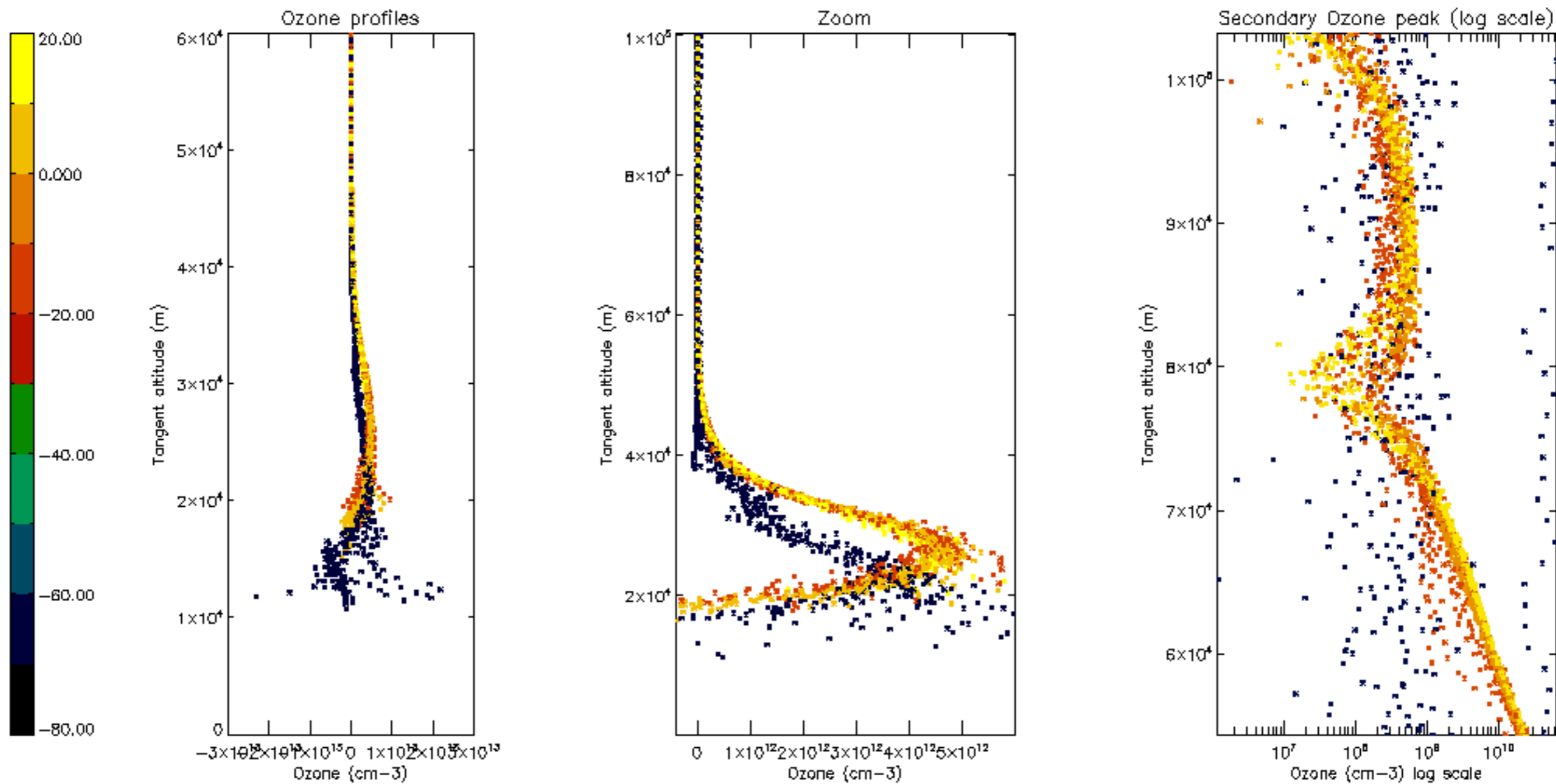


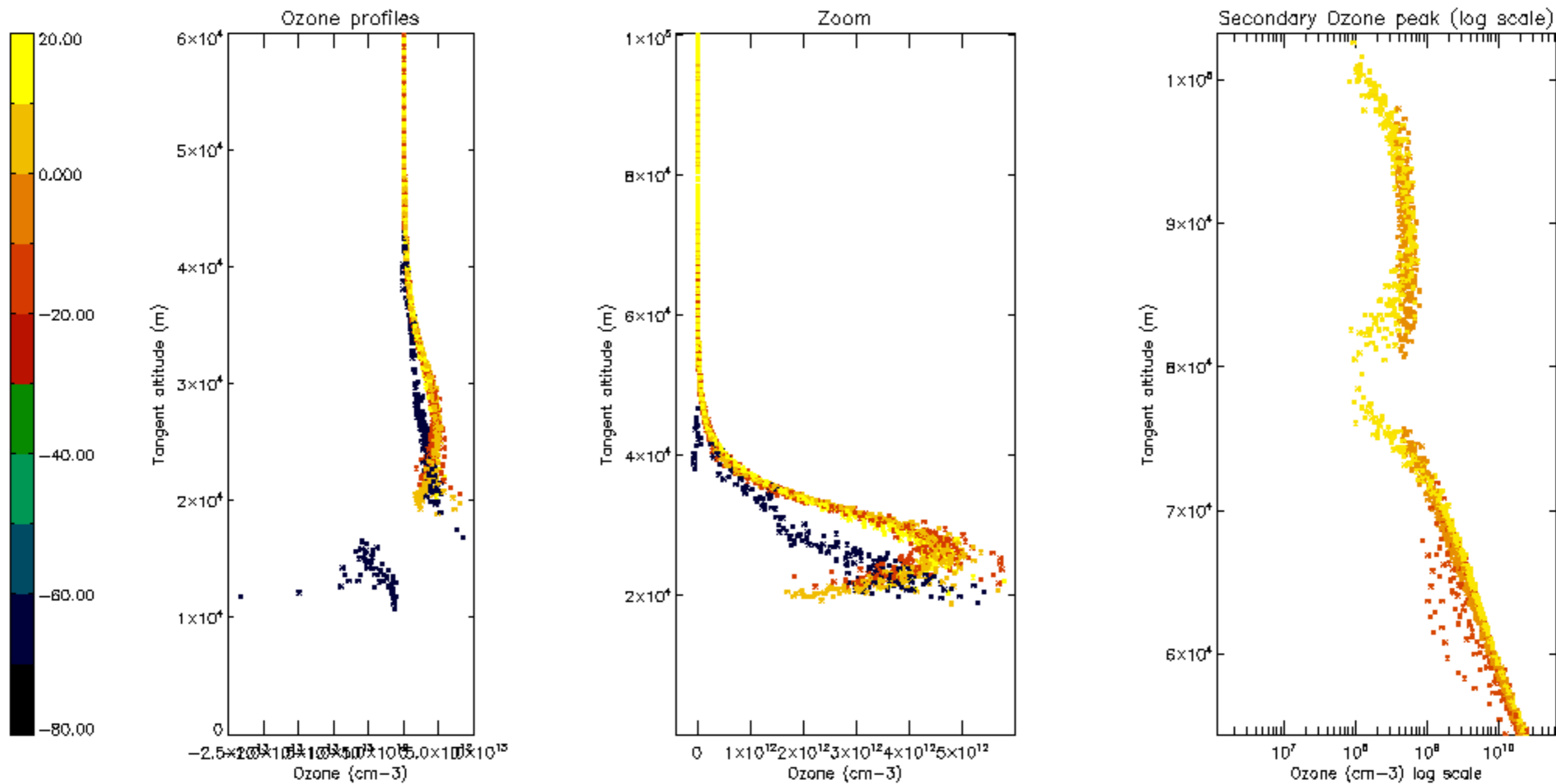
Percentage of star falling outside central band per profile

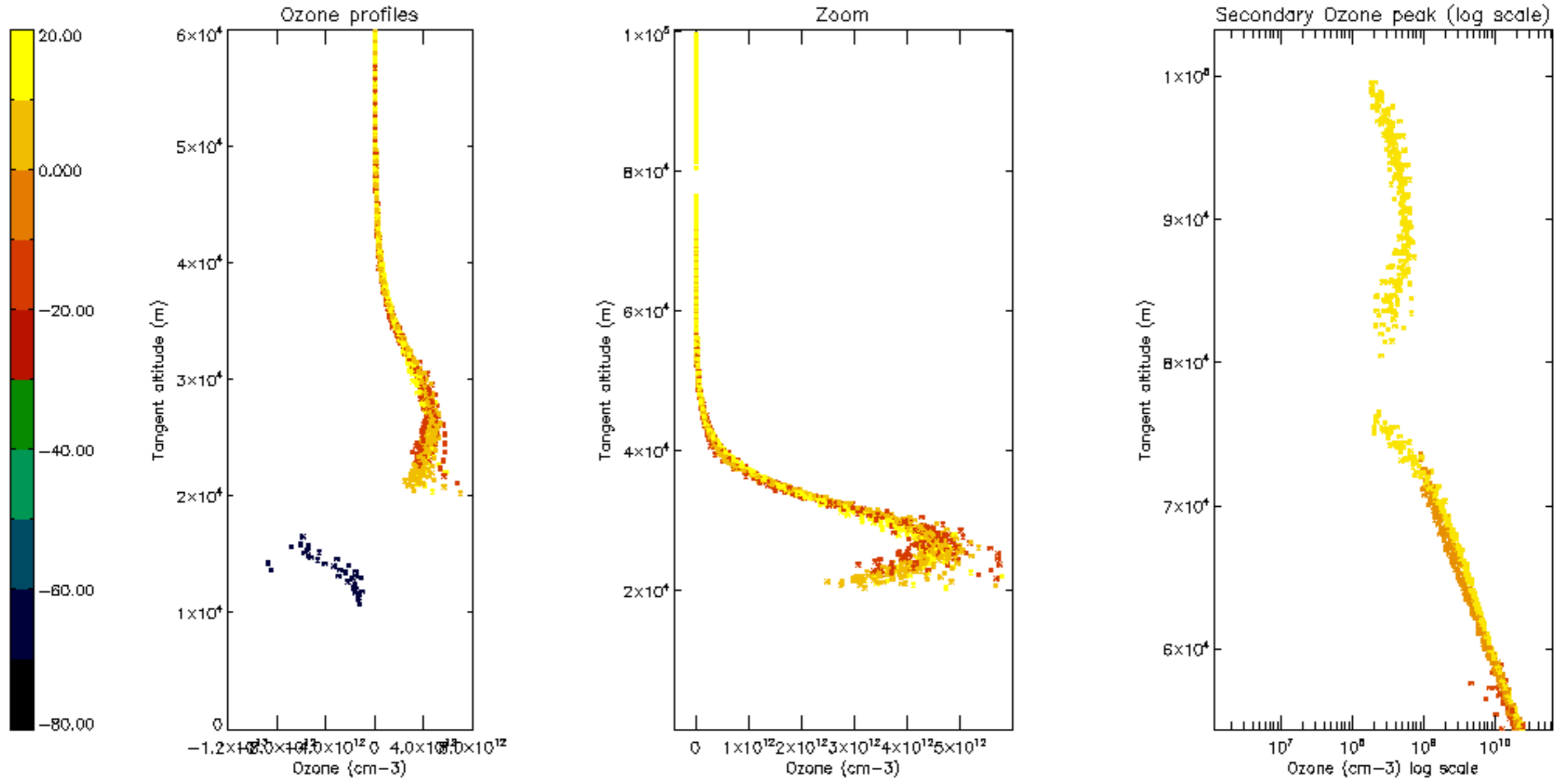


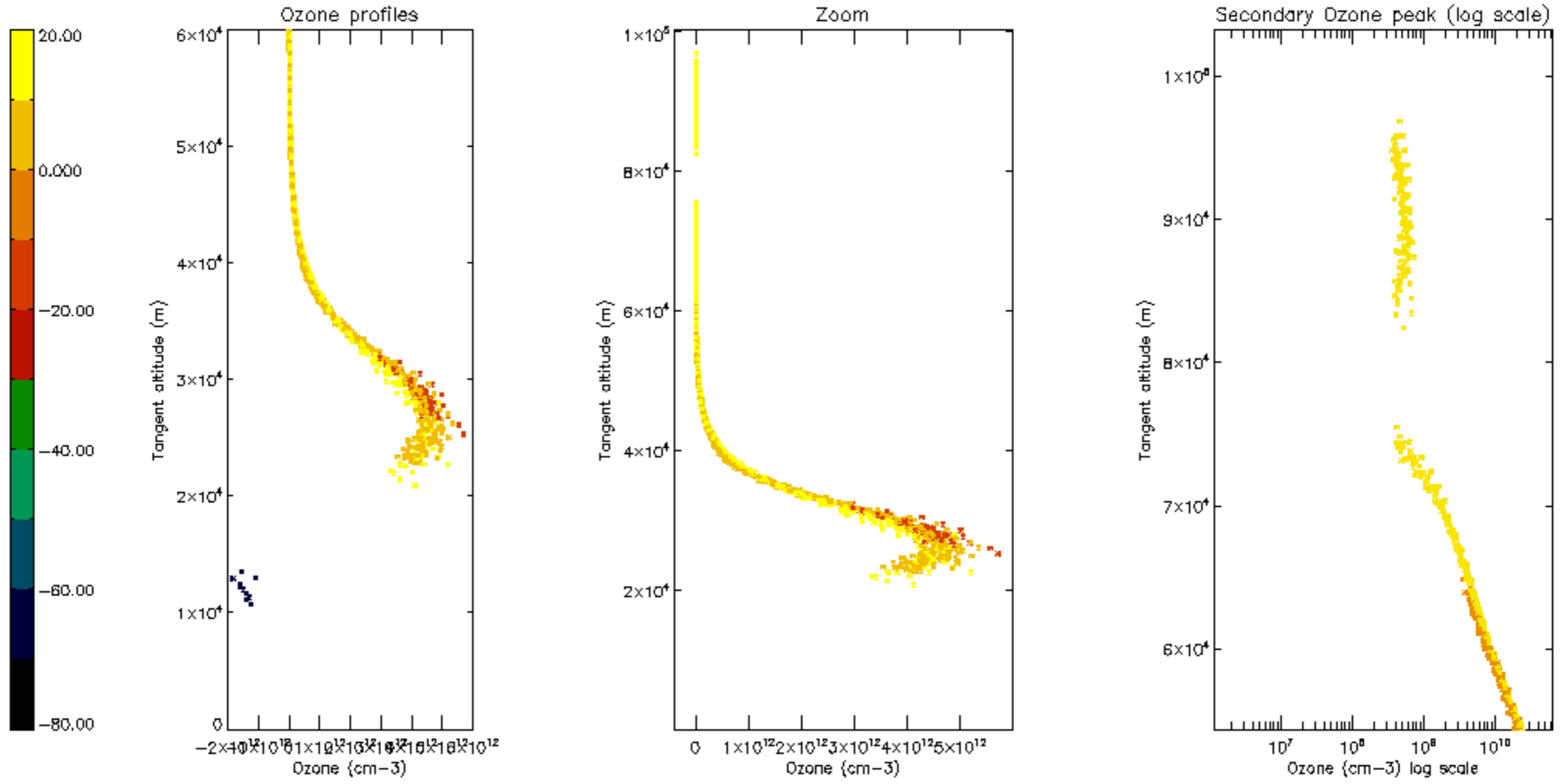
Percentage of saturation errors per profile

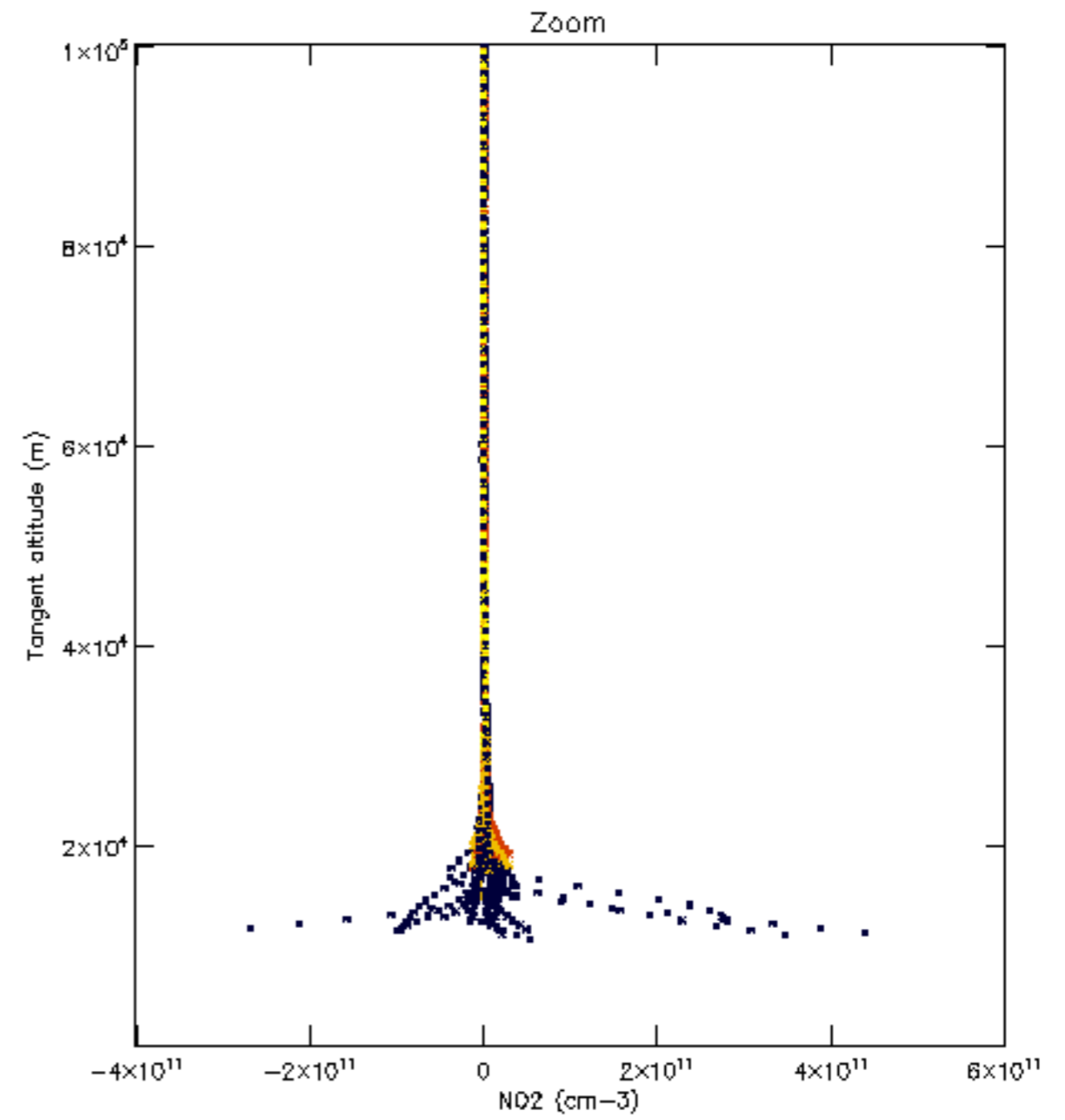
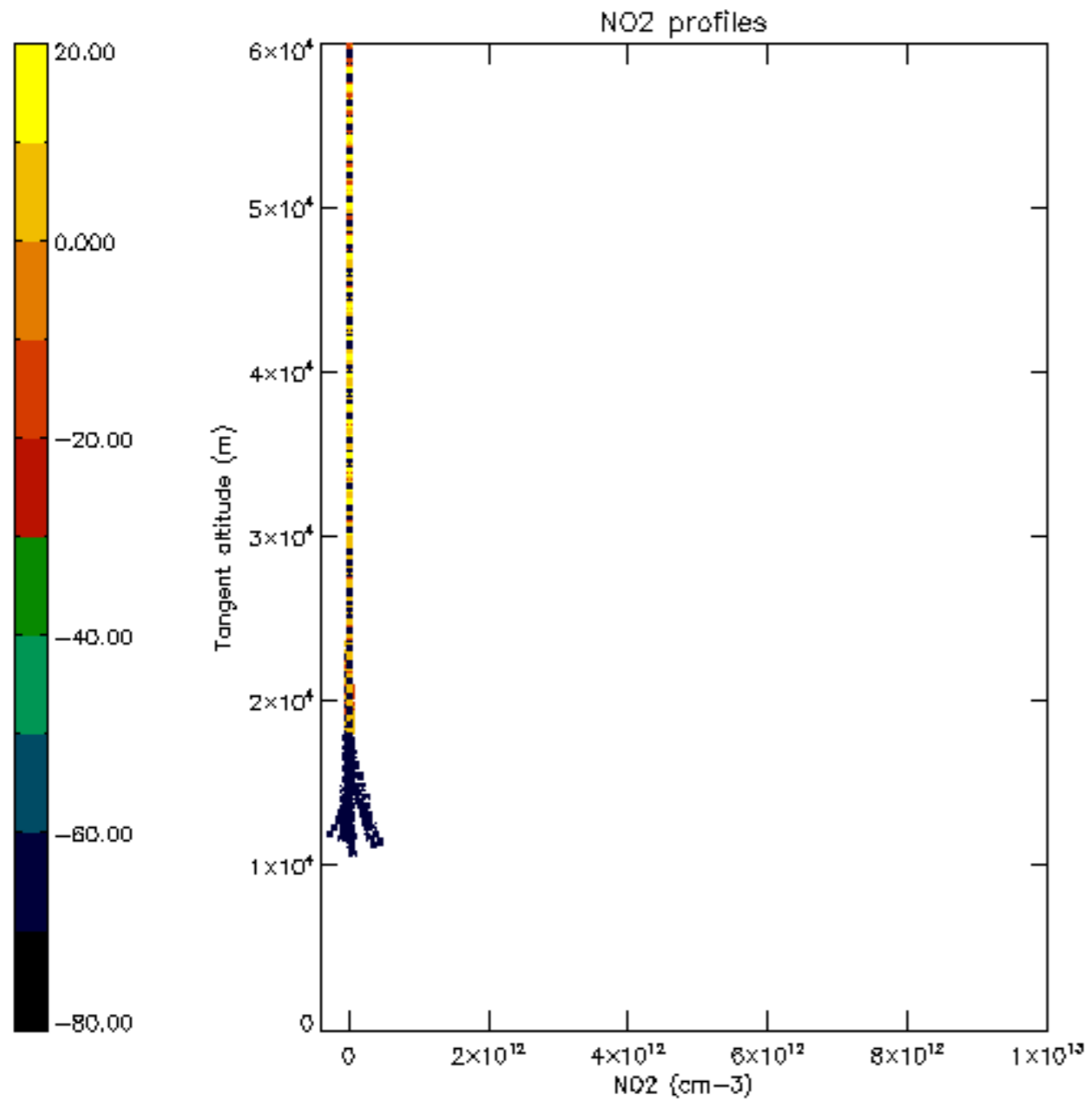


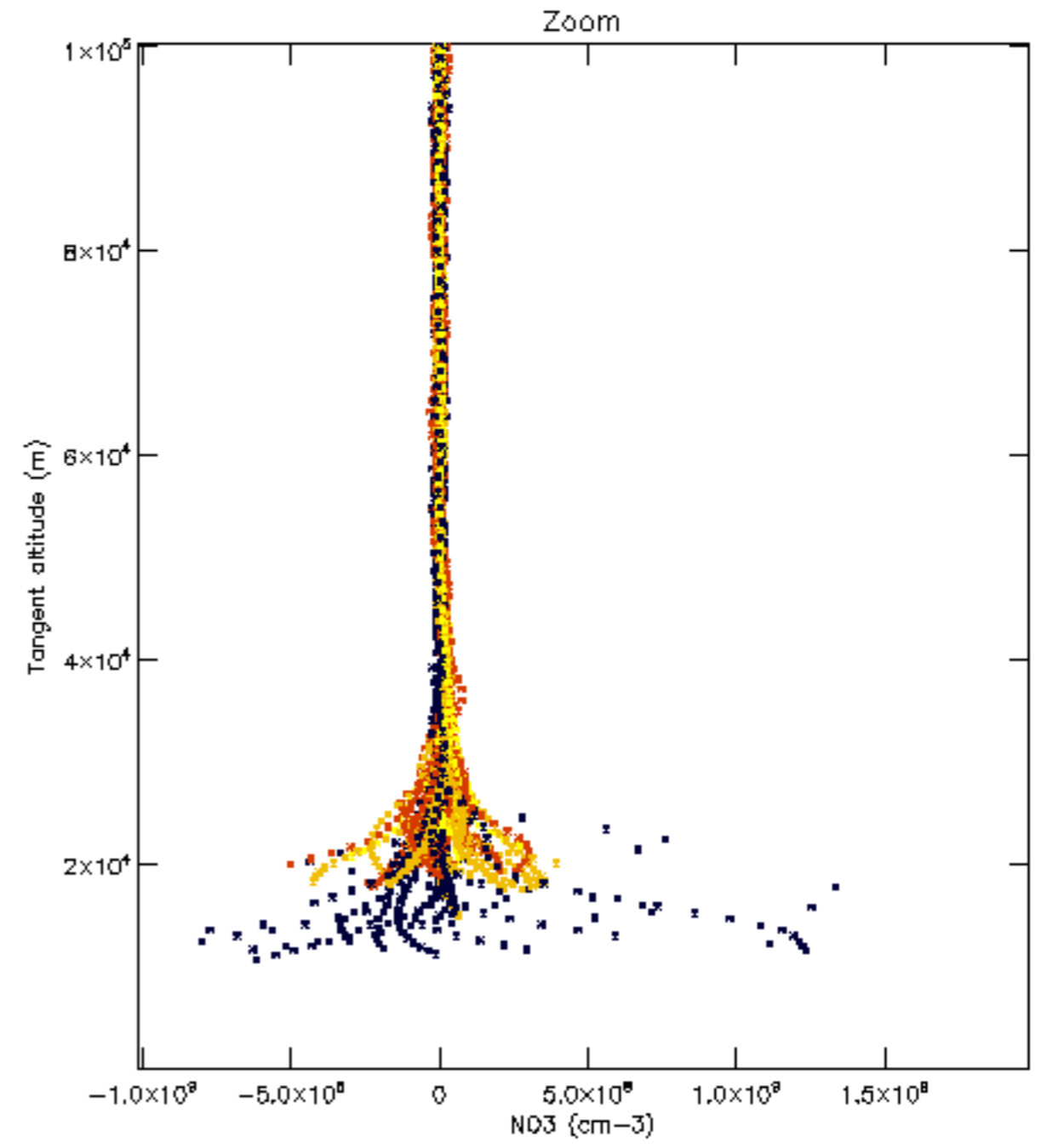
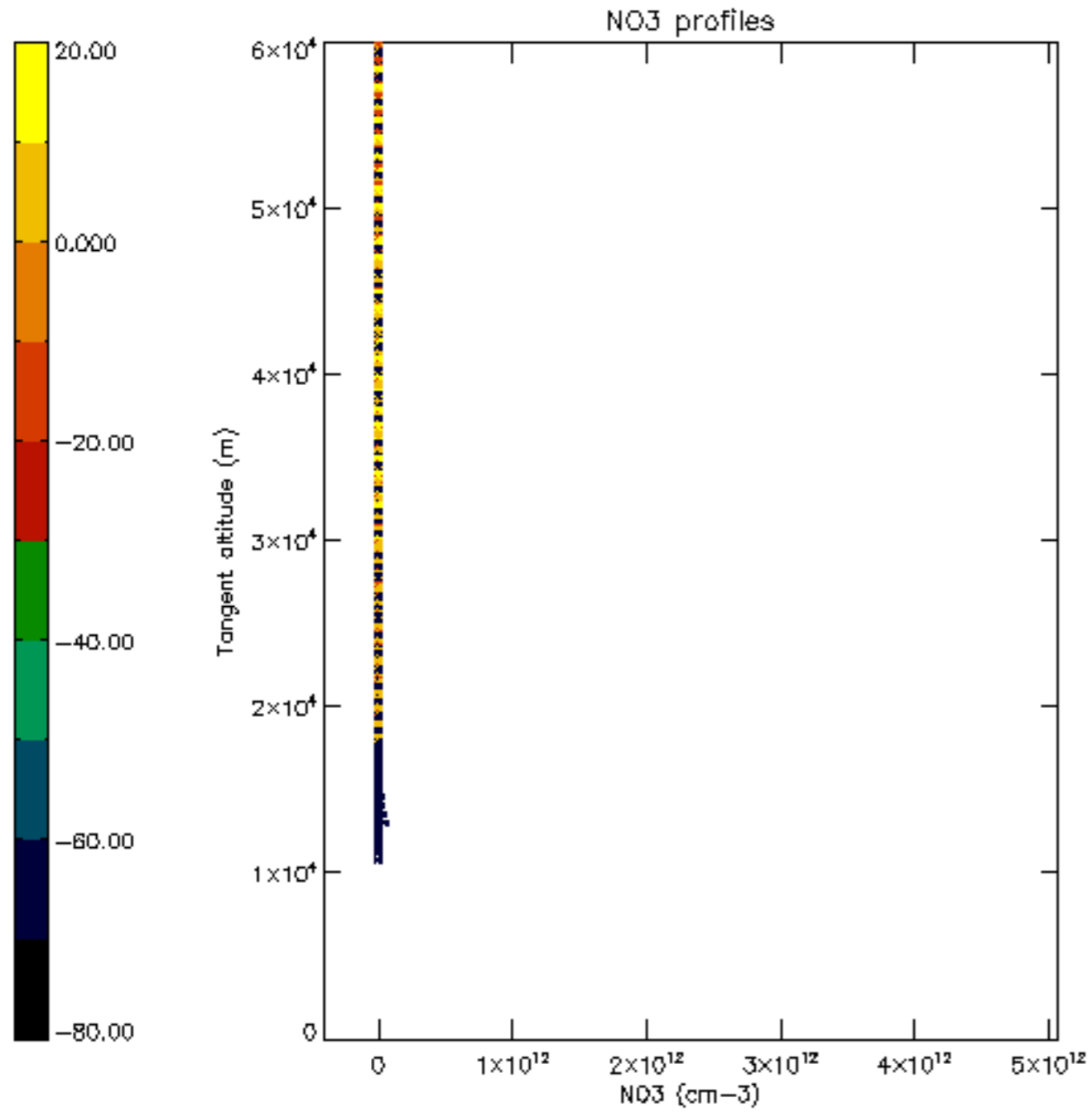


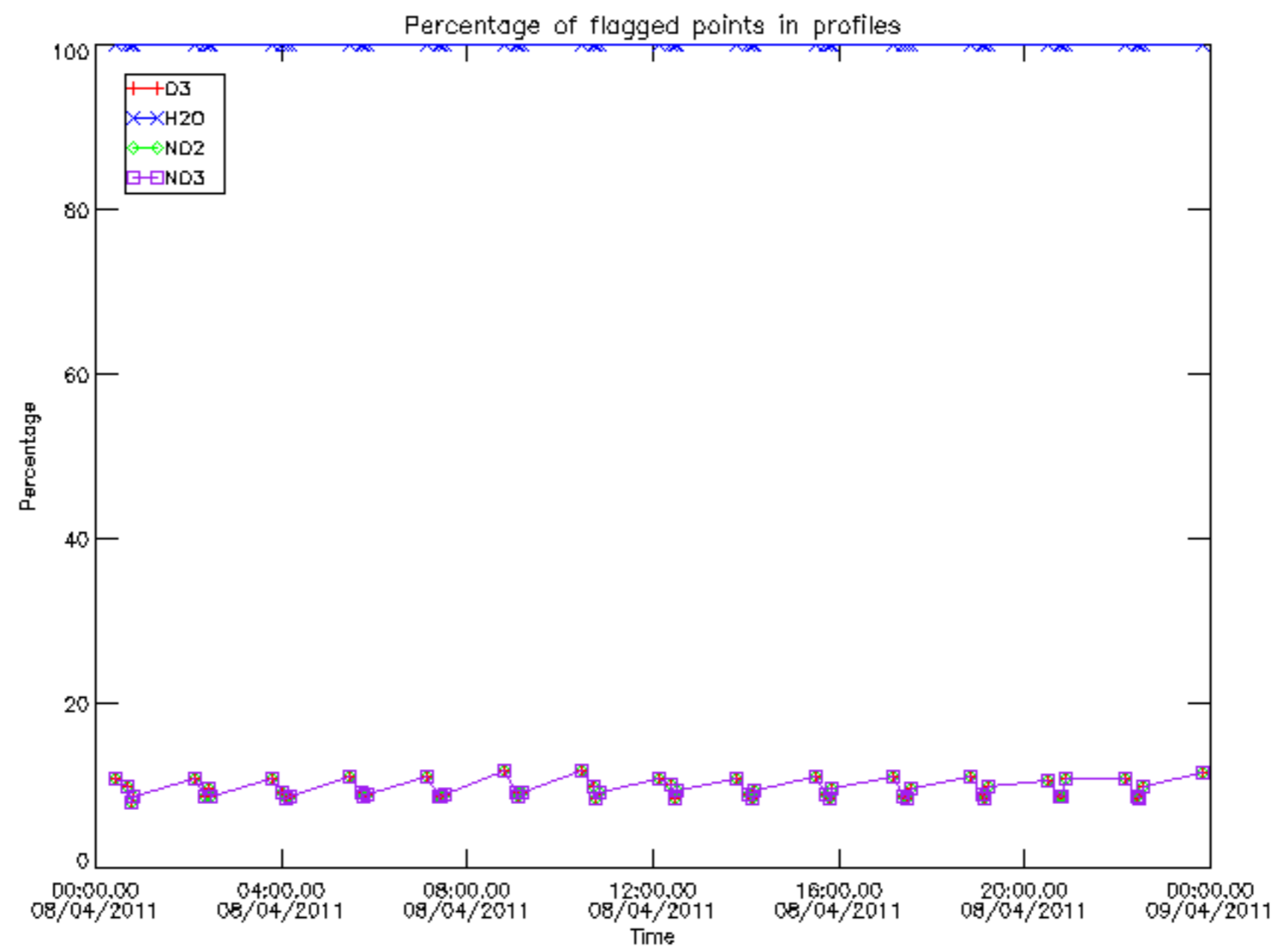




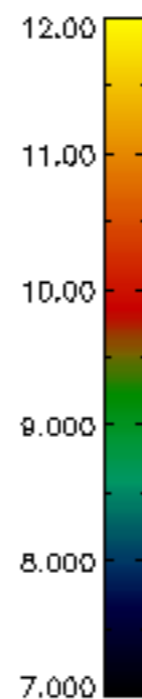
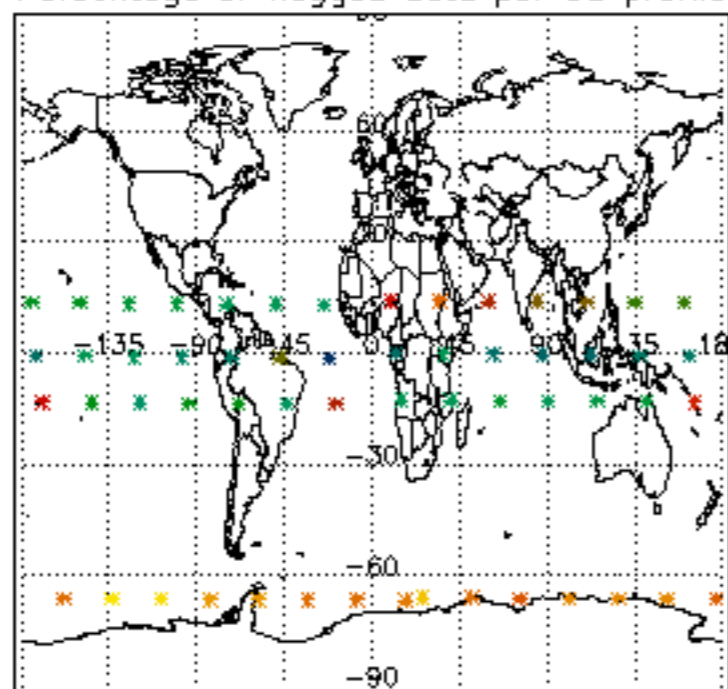




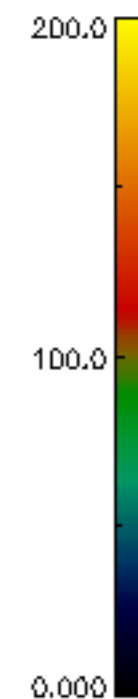
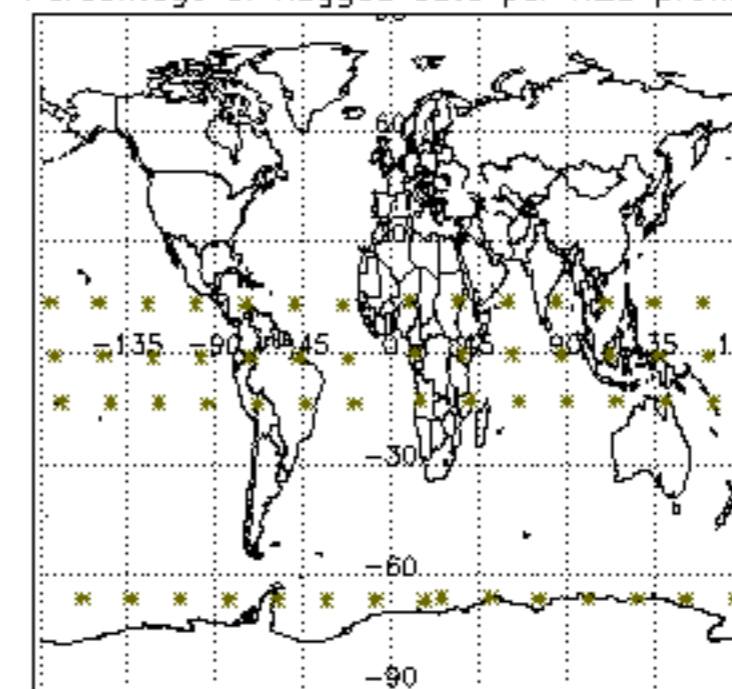




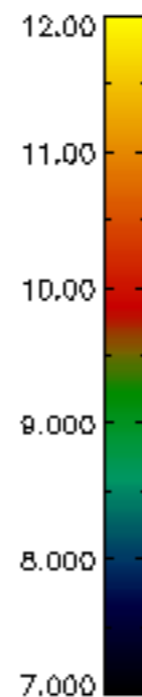
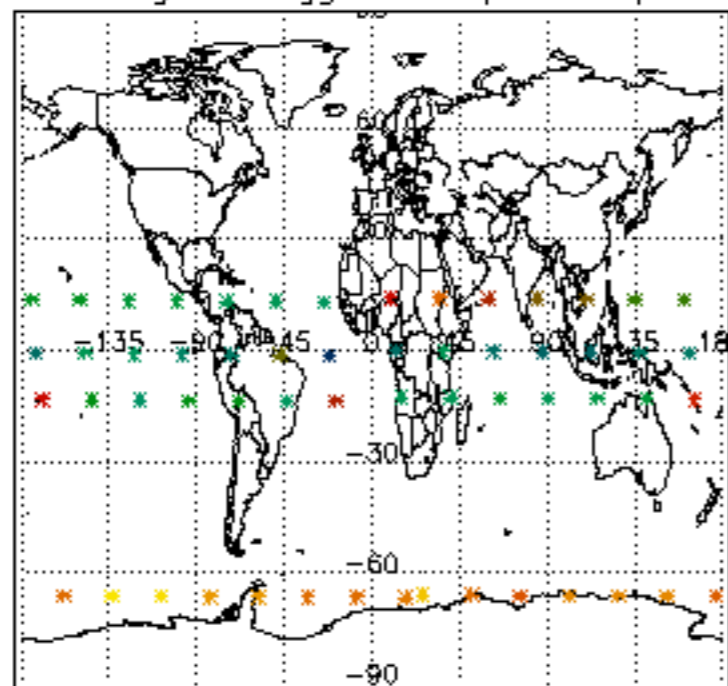
Percentage of flagged data per D3 profile



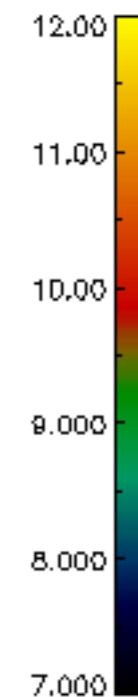
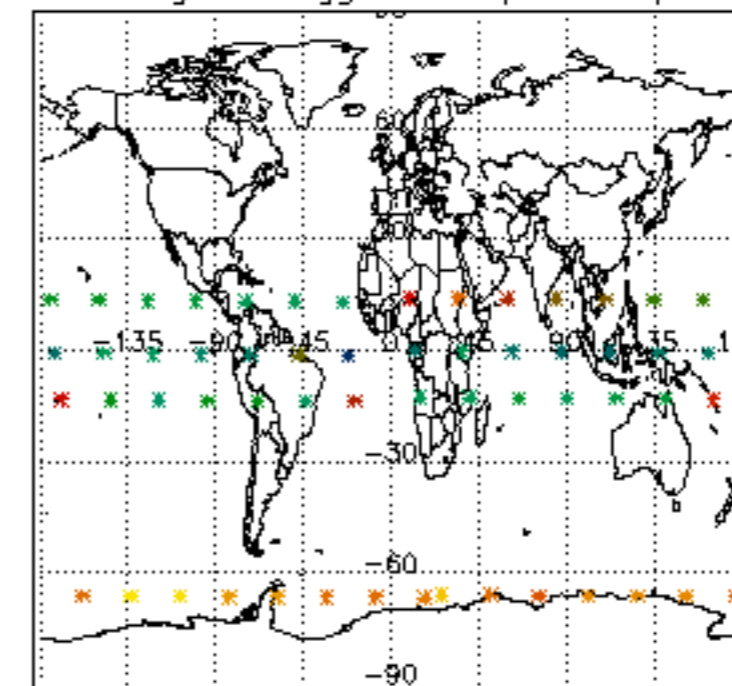
Percentage of flagged data per H2O profile

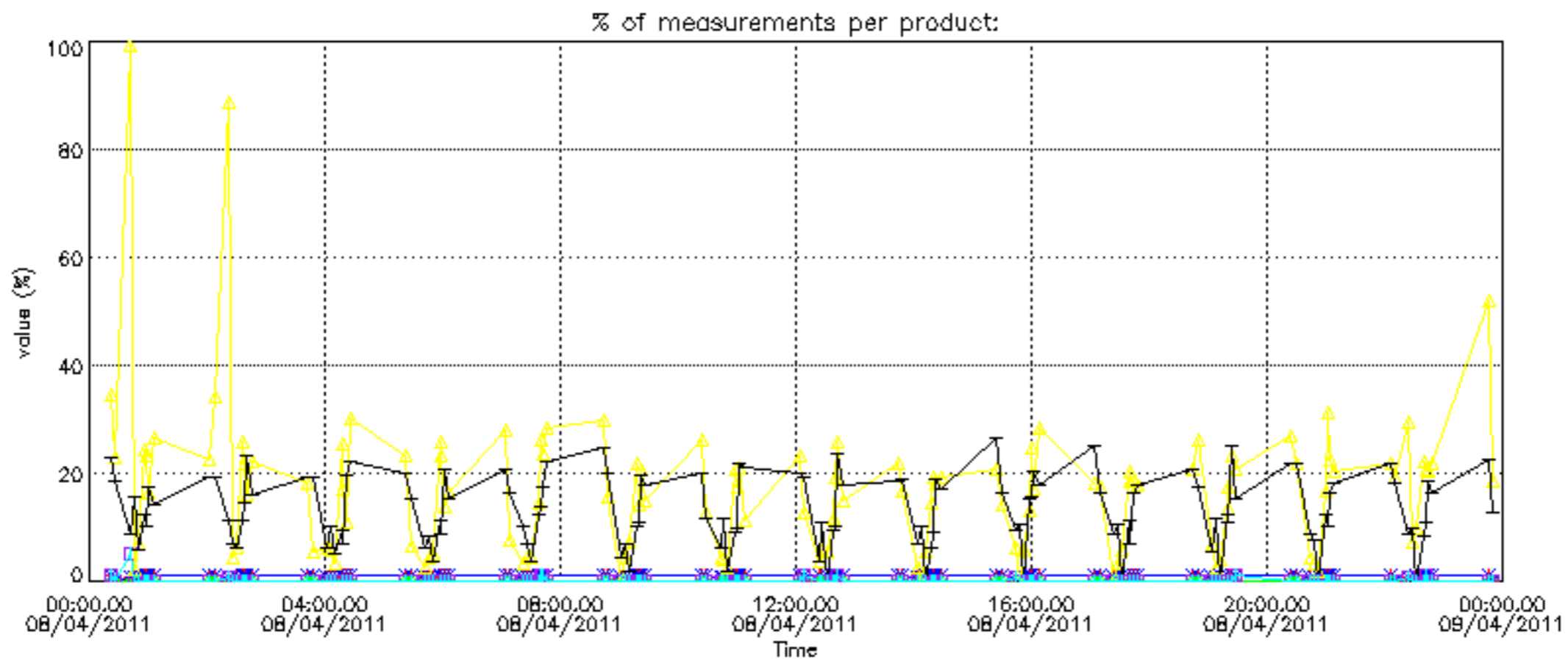


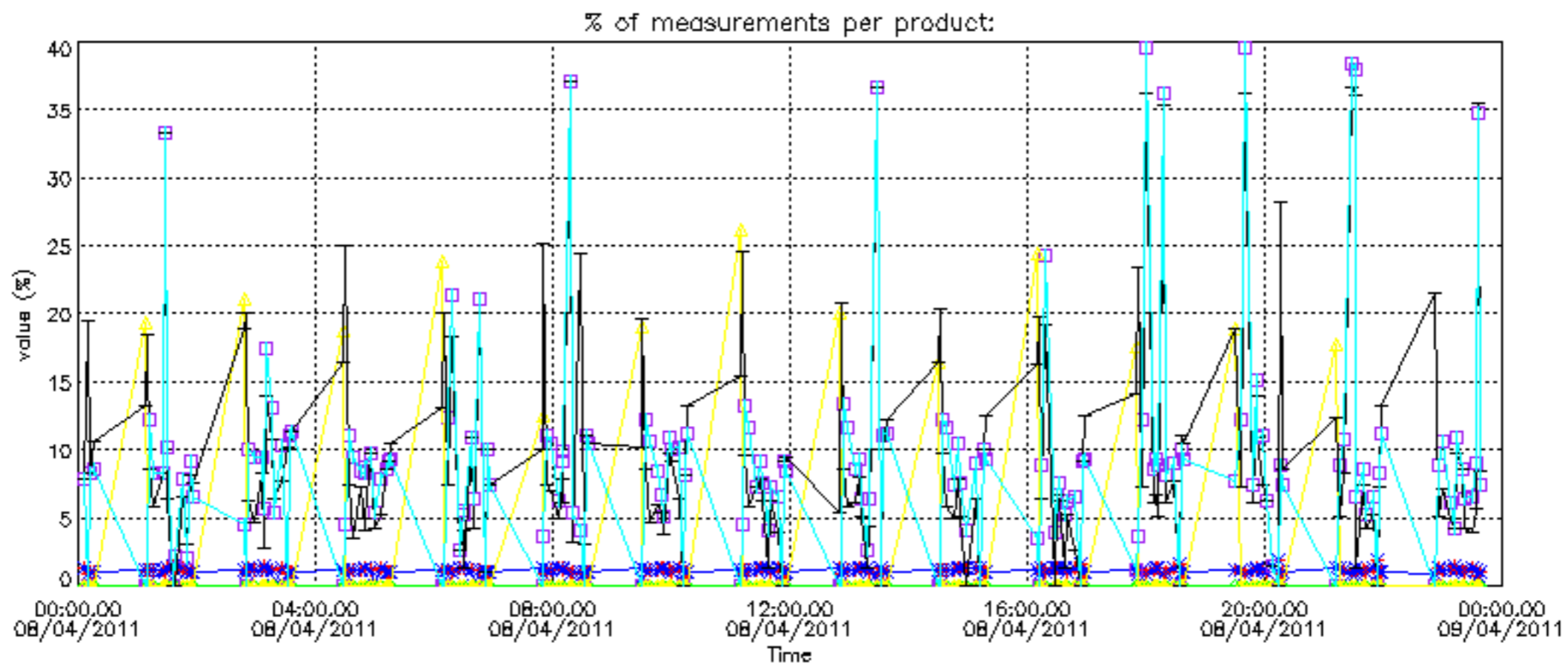
Percentage of flagged data per NO2 profile



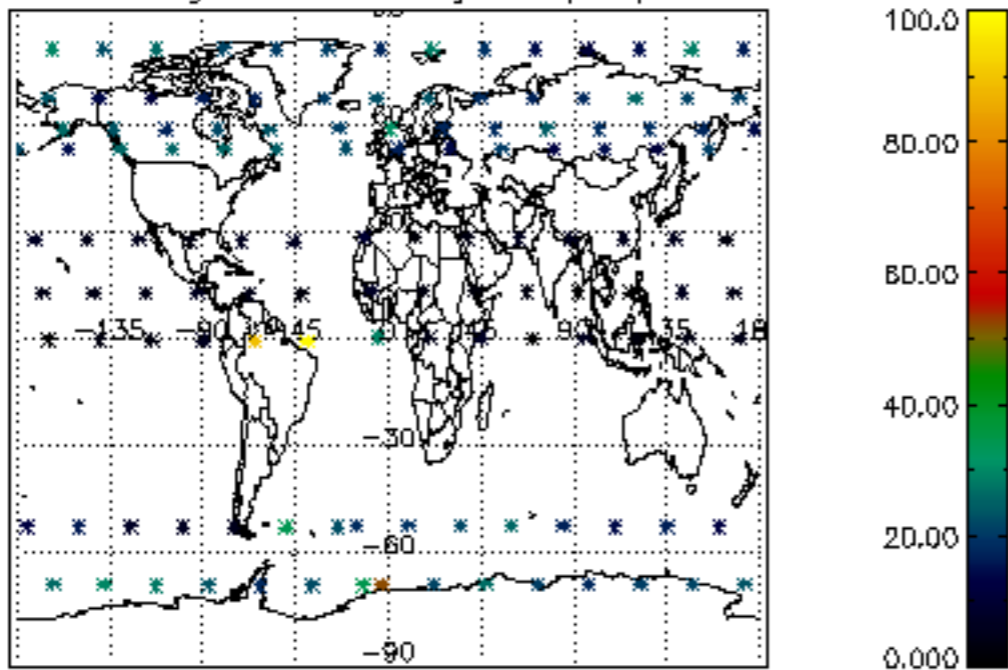
Percentage of flagged data per NO3 profile



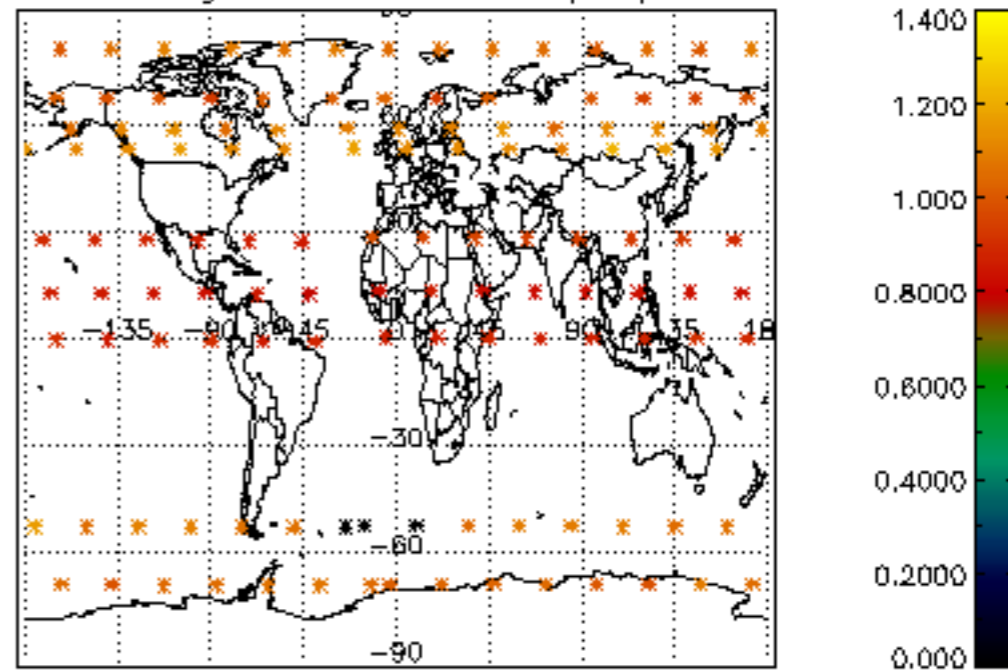




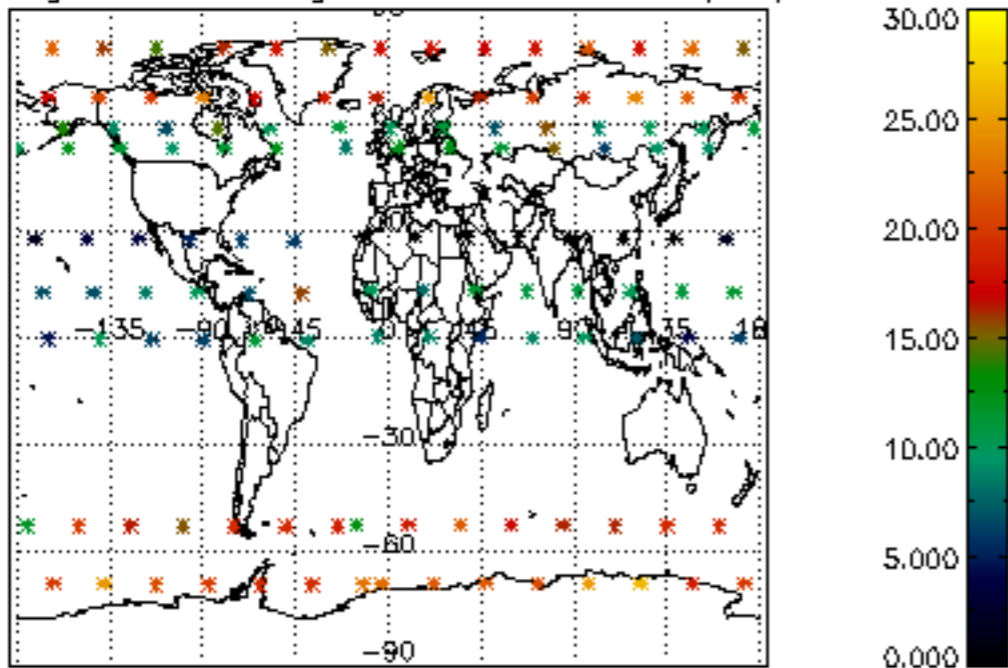
Percentage of cosmic ray hits per profile



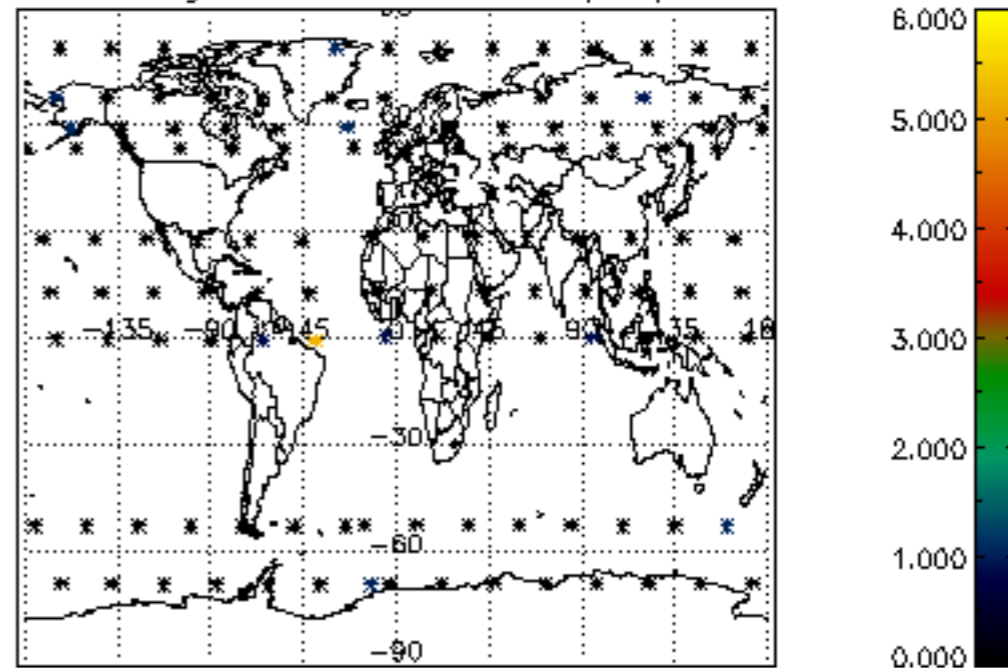
Percentage of datation errors per profile



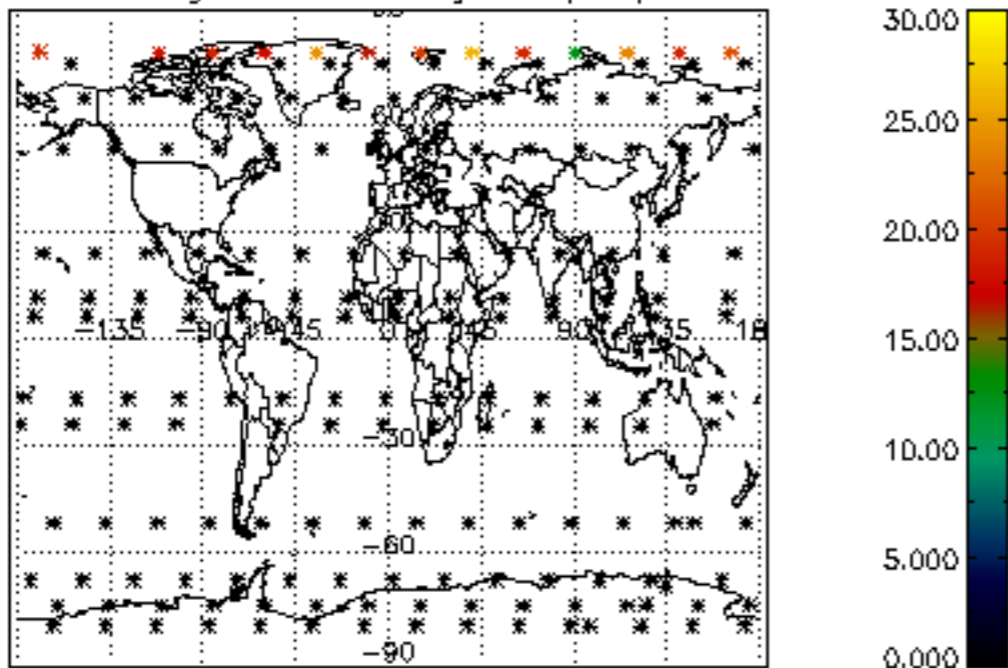
Percentage of star falling outside central band per profile



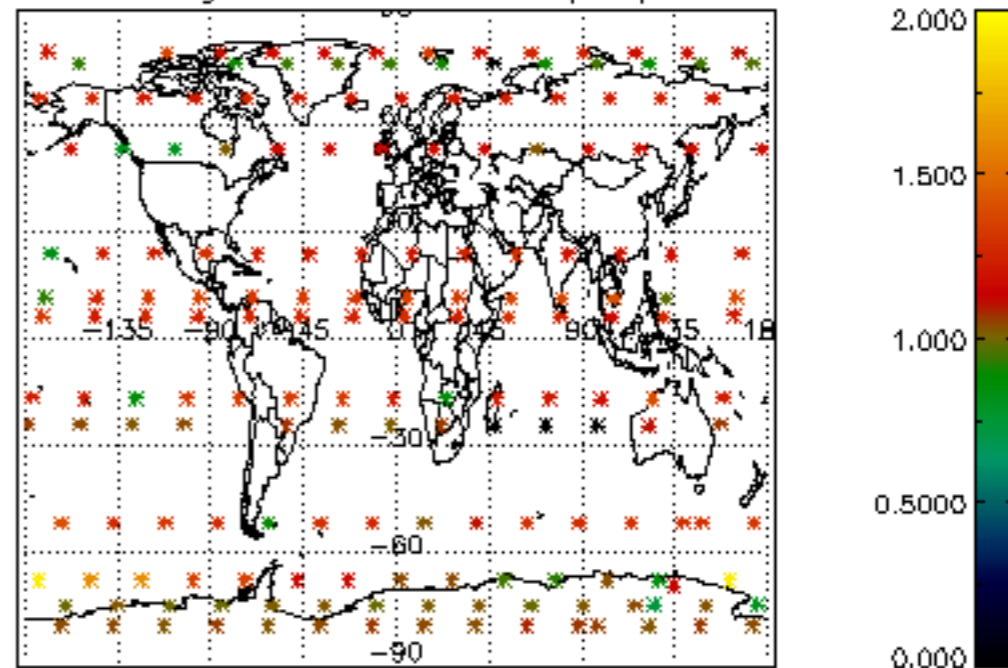
Percentage of saturation errors per profile



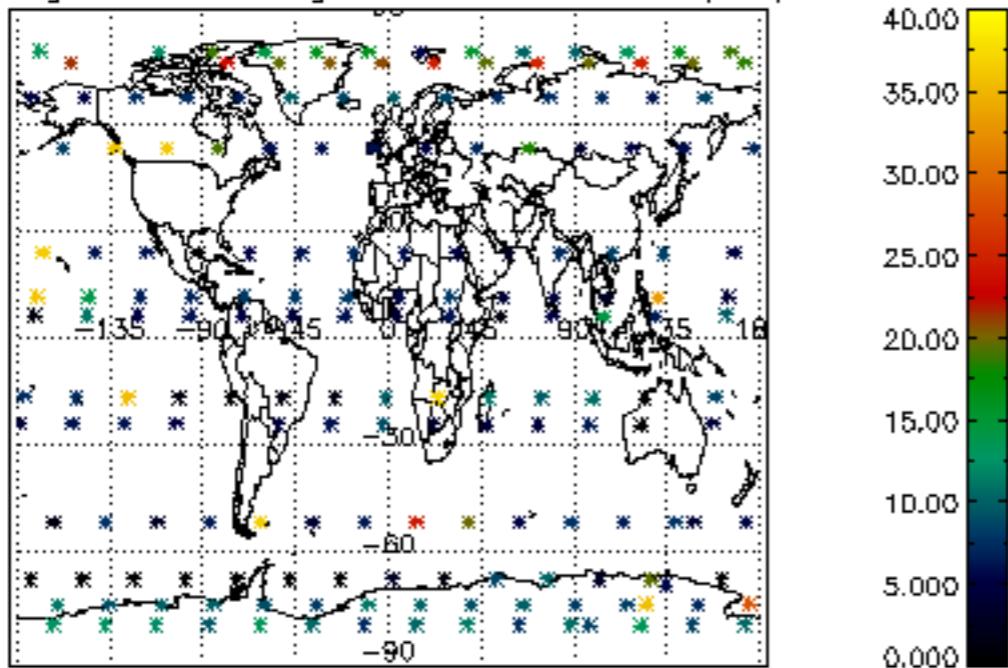
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

