

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 16:49:34
Data source version	GOMOS/6.01
Start time of products	10-12-2010 (10DEC2010 00:00:00)
Stop time of products	11-12-2010 (11DEC2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	372
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

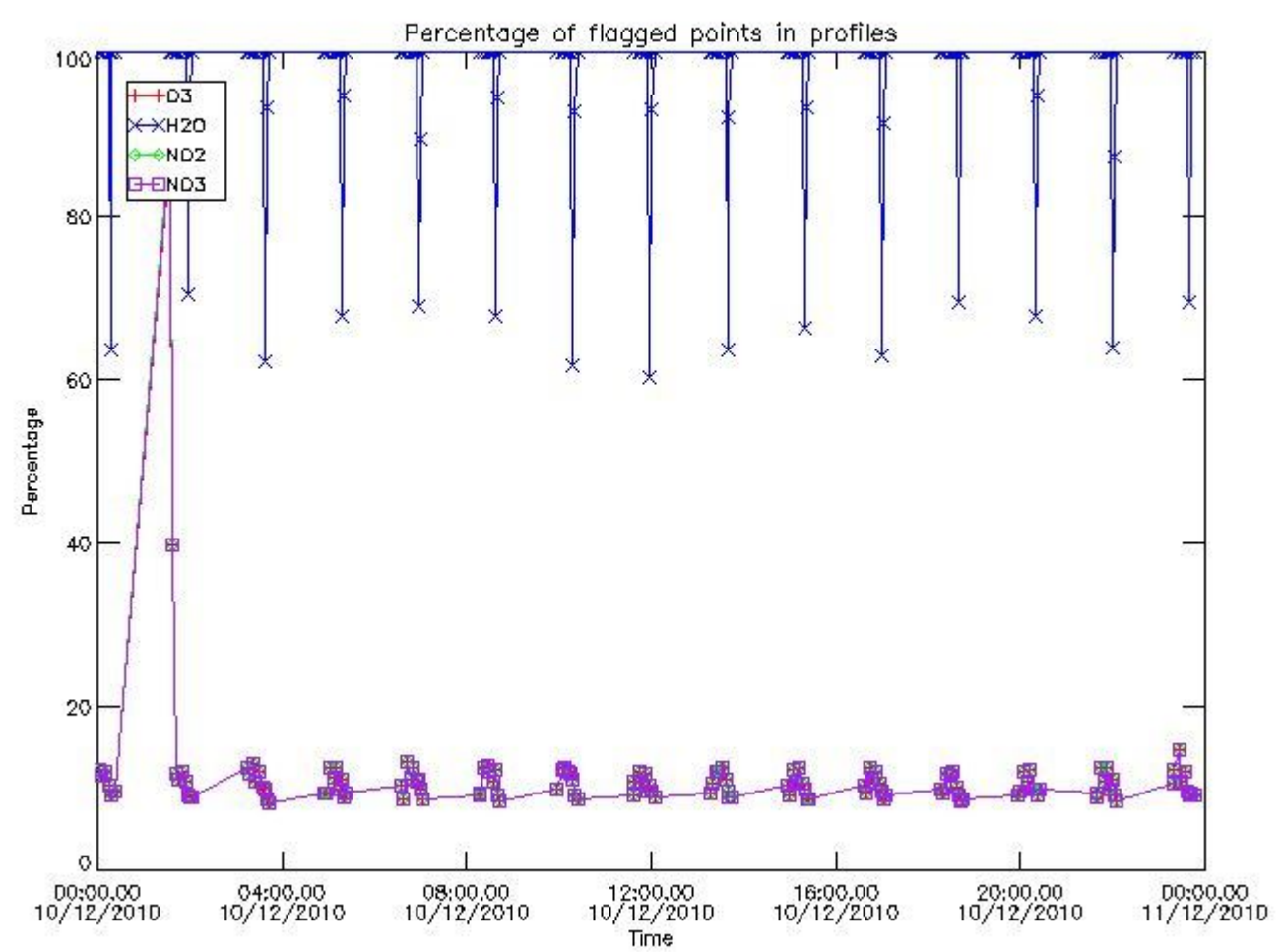
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20101210_000203_000000423097_00188_45892_2760.N1	10-DEC-2010 00:02:03	Dark	41.500	99	Del Cen	2.5750	26000.	83	45892	No
2	GOM_NL__2PRFIN20101210_000533_000000443097_00189_45893_2764.N1	10-DEC-2010 00:05:33	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	45893	No
3	GOM_NL__2PRFIN20101210_000942_000000423097_00189_45893_2765.N1	10-DEC-2010 00:09:42	Dark	42.000	71	Iot Car	2.2460	7700.0	84	45893	No
4	GOM_NL__2PRFIN20101210_001410_000000543097_00189_45893_2766.N1	10-DEC-2010 00:14:10	Dark	54.000	34	Gam2Vel	1.7930	23000.	108	45893	No
5	GOM_NL__2PRFIN20101210_001646_000000563097_00189_45893_2767.N1	10-DEC-2010 00:16:46	Dark	55.500	2	Alp Car	-0.73600	7000.0	111	45893	No
6	GOM_NL__2PRFIN20101210_001911_000000563097_00189_45893_2768.N1	10-DEC-2010 00:19:11	Dark	56.000	117	Pi Pup	2.7060	3800.0	112	45893	No
7	GOM_NL__2PRFIN20101210_002239_000000583097_00189_45893_2769.N1	10-DEC-2010 00:22:39	Dark	58.000	23	21Eps CMa	1.5020	26000.	116	45893	No
8	GOM_NL__2PRFIN20101210_002808_000000463097_00189_45893_2770.N1	10-DEC-2010 00:28:08	Straylight	45.500	101	11Alp Lep	2.5820	7000.0	91	45893	No
9	GOM_NL__2PRFIN20101210_003122_000000553097_00189_45893_2771.N1	10-DEC-2010 00:31:22	Straylight	55.000	7	19Bet Ori	0.10000	14000.	110	45893	No
10	GOM_NL__2PRFIN20101210_003351_000000533097_00189_45893_2772.N1	10-DEC-2010 00:33:51	Straylight	53.000	30	46Eps Ori	1.6940	30000.	106	45893	No
11	GOM_NL__2PRFIN20101210_003619_000000533097_00189_45893_2773.N1	10-DEC-2010 00:36:19	Twilight_stray	53.000	27	24Gam Ori	1.6360	26000.	106	45893	No
12	GOM_NL__2PRFIN20101210_003853_000000503097_00189_45893_2774.N1	10-DEC-2010 00:38:53	Twilight_stray	49.500	13	87Alp Tau	0.86700	3800.0	99	45893	No
13	GOM_NL__2PRFIN20101210_004305_000000373097_00189_45893_2775.N1	10-DEC-2010 00:43:05	Bright	36.500	150	44Zet Per	2.8900	28000.	73	45893	No
14	GOM_NL__2PRFIN20101210_004525_000000373097_00189_45893_2776.N1	10-DEC-2010 00:45:25	Bright	37.000	149	45Eps Per	2.8880	30000.	74	45893	No
15	GOM_NL__2PRFIN20101210_004827_000000463097_00189_45893_2777.N1	10-DEC-2010 00:48:27	Bright	46.000	6	13Alp Aur	0.080000	3400.0	92	45893	No
16	GOM_NL__2PRFIN20101210_010457_000000473097_00189_45893_2778.N1	10-DEC-2010 01:04:57	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	45893	No
17	GOM_NL__2PRFIN20101210_010627_000000383097_00189_45893_2779.N1	10-DEC-2010 01:06:27	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	45893	No
18	GOM_NL__2PRFIN20101210_010845_000000603097_00189_45893_2780.N1	10-DEC-2010 01:08:45	Bright	60.000	32	77Eps UMa	1.7630	11000.	120	45893	No
19	GOM_NL__2PRFIN20101210_011106_000000563097_00189_45893_2781.N1	10-DEC-2010 01:11:06	Bright	56.000	39	85Eta UMa	1.8540	24000.	112	45893	No
20	GOM_NL__2PRFIN20101210_011438_000000423097_00189_45893_2782.N1	10-DEC-2010 01:14:38	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	45893	No
21	GOM_NL__2PRFIN20101210_012029_000000573097_00189_45893_2783.N1	10-DEC-2010 01:20:29	Bright	57.000	111	8Eta Boo	2.6800	6000.0	114	45893	No
22	GOM_NL__2PRFIN20101210_012400_000000473097_00189_45893_2784.N1	10-DEC-2010 01:24:00	Bright	47.000	138	47Eps Vir	2.8280	4700.0	94	45893	No
23	GOM_NL__2PRFIN20101210_012952_000000503097_00189_45893_2785.N1	10-DEC-2010 01:29:52	Bright	49.500	15	67Alp Vir	0.97600	28000.	99	45893	No
24	GOM_NL__2PRFIN20101210_013501_000000553097_00189_45893_2786.N1	10-DEC-2010 01:35:01	Dark	55.000	100	4Gam Crv	2.5800	13100.	110	45893	No
25	GOM_NL__2PRFIN20101210_013637_000000523097_00189_45893_2787.N1	10-DEC-2010 01:36:37	Dark	52.000	171	2Eps Crv	3.0010	4250.0	104	45893	No
26	GOM_NL__2PRFIN20101210_014217_000000443097_00189_45893_2788.N1	10-DEC-2010 01:42:17	Dark	43.500	99	Del Cen	2.5750	26000.	87	45893	No
27	GOM_NL__2PRFIN20101210_014548_000000463097_00190_45894_2777.N1	10-DEC-2010 01:45:48	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45894	No
28	GOM_NL__2PRFIN20101210_014956_000000433097_00190_45894_2778.N1	10-DEC-2010 01:49:56	Dark	42.500	71	Iot Car	2.2460	7700.0	85	45894	No
29	GOM_NL__2PRFIN20101210_015425_000000473097_00190_45894_2779.N1	10-DEC-2010 01:54:25	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	45894	No
30	GOM_NL__2PRFIN20101210_015701_000000563097_00190_45894_2780.N1	10-DEC-2010 01:57:01	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	45894	No
31	GOM_NL__2PRFIN20101210_015926_000000583097_00190_45894_2781.N1	10-DEC-2010 01:59:26	Dark	57.500	117	Pi Pup	2.7060	3800.0	115	45894	No
32	GOM_NL__2PRFIN20101210_020253_000000573097_00190_45894_2782.N1	10-DEC-2010 02:02:53	Dark	57.000	23	21Eps CMa	1.5020	26000.	114	45894	No
33	GOM_NL__2PRFIN20101210_020753_000000283097_00190_45894_2783.N1	10-DEC-2010 02:07:53	Straylight	28.000	47	2Bet CMa	1.9760	28000.	56	45894	No
34	GOM_NL__2PRFIN20101210_021136_000000553097_00190_45894_2784.N1	10-DEC-2010 02:11:36	Straylight	54.500	7	19Bet Ori	0.10000	14000.	109	45894	No
35	GOM_NL__2PRFIN20101210_021405_000000553097_00190_45894_2785.N1	10-DEC-2010 02:14:05	Straylight	55.000	30	46Eps Ori	1.6940	30000.	110	45894	No
36	GOM_NL__2PRFIN20101210_021632_000000543097_00190_45894_2786.N1	10-DEC-2010 02:16:32	Twilight_stray	53.500	27	24Gam Ori	1.6360	26000.	107	45894	No
37	GOM_NL__2PRFIN20101210_021907_000000543097_00190_45894_2787.N1	10-DEC-2010 02:19:07	Twilight_stray	53.500	13	87Alp Tau	0.86700	3800.0	107	45894	No
38	GOM_NL__2PRFIN20101210_022319_000000363097_00190_45894_2788.N1	10-DEC-2010 02:23:19	Bright	36.000	150	44Zet Per	2.8900	28000.	72	45894	No
39	GOM_NL__2PRFIN20101210_022539_000000363097_00190_45894_2789.N1	10-DEC-2010 02:25:39	Bright	36.000	149	45Eps Per	2.8880	30000.	72	45894	No
40	GOM_NL__2PRFIN20101210_022840_000000483097_00190_45894_2790.N1	10-DEC-2010 02:28:40	Bright	48.000	6	13Alp Aur	0.080000	3400.0	96	45894	No
41	GOM_NL__2PRFIN20101210_024510_000000483097_00190_45894_2791.N1	10-DEC-2010 02:45:10	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	45894	No
42	GOM_NL__2PRFIN20101210_024641_000000353097_00190_45894_2792.N1	10-DEC-2010 02:46:41	Twilight_stray	35.000	82	48Bet UMa	2.3650	10600.	70	45894	No

338	GOM_NL__2PRFIN20101210_215253_000000413097_00202_45906_3163.N1	10-DEC-2010 21:52:53	Dark	40.500	71	Iot Car	2.2460	7700.0	81	45906	No
339	GOM_NL__2PRFIN20101210_215723_000000523097_00202_45906_3164.N1	10-DEC-2010 21:57:23	Dark	52.000	34	Gam2Vel	1.7930	23000.	104	45906	No
340	GOM_NL__2PRFIN20101210_215955_000000463097_00202_45906_3165.N1	10-DEC-2010 21:59:55	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	45906	No
341	GOM_NL__2PRFIN20101210_220223_000000563097_00202_45906_3166.N1	10-DEC-2010 22:02:23	Dark	55.500	117	Pi Pup	2.7060	3800.0	111	45906	No
342	GOM_NL__2PRFIN20101210_220548_000000603097_00202_45906_3167.N1	10-DEC-2010 22:05:48	Dark	60.000	23	21Eps CMa	1.5020	26000.	120	45906	No
343	GOM_NL__2PRFIN20101210_221043_000000603097_00202_45906_3168.N1	10-DEC-2010 22:10:43	Straylight	60.000	47	2Bet CMa	1.9760	28000.	120	45906	No
344	GOM_NL__2PRFIN20101210_221425_000000533097_00202_45906_3169.N1	10-DEC-2010 22:14:25	Straylight	53.000	7	19Bet Ori	0.10000	14000.	106	45906	No
345	GOM_NL__2PRFIN20101210_221651_000000543097_00202_45906_3170.N1	10-DEC-2010 22:16:51	Straylight	53.500	30	46Eps Ori	1.6940	30000.	107	45906	No
346	GOM_NL__2PRFIN20101210_221918_000000503097_00202_45906_3171.N1	10-DEC-2010 22:19:18	Tw_i_and_stray	49.500	27	24Gam Ori	1.6360	26000.	99	45906	No
347	GOM_NL__2PRFIN20101210_222154_000000483097_00202_45906_3172.N1	10-DEC-2010 22:21:54	Tw_i_and_stray	48.000	13	87Alp Tau	0.86700	3800.0	96	45906	No
348	GOM_NL__2PRFIN20101210_222606_000000373097_00202_45906_3173.N1	10-DEC-2010 22:26:06	Bright	36.500	150	44Zet Per	2.8900	28000.	73	45906	No
349	GOM_NL__2PRFIN20101210_222826_000000373097_00202_45906_3174.N1	10-DEC-2010 22:28:26	Bright	36.500	149	45Eps Per	2.8880	30000.	73	45906	No
350	GOM_NL__2PRFIN20101210_223028_000000333097_00202_45906_3175.N1	10-DEC-2010 22:30:28	Tw_i_and_stray	33.000	107	37The Aur	2.6490	11000.	66	45906	No
351	GOM_NL__2PRFIN20101210_223233_000000463097_00202_45906_3176.N1	10-DEC-2010 22:32:33	Bright	46.000	42	34Bet Aur	1.9000	10200.	92	45906	No
352	GOM_NL__2PRFIN20101210_224753_000000453097_00202_45906_3177.N1	10-DEC-2010 22:47:53	Bright	44.500	36	50Alp UMa	1.8000	6300.0	89	45906	No
353	GOM_NL__2PRFIN20101210_225145_000000423097_00202_45906_3178.N1	10-DEC-2010 22:51:45	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	45906	No
354	GOM_NL__2PRFIN20101210_225408_000000563097_00202_45906_3179.N1	10-DEC-2010 22:54:08	Bright	56.000	39	85Eta UMa	1.8540	24000.	112	45906	No
355	GOM_NL__2PRFIN20101210_225719_000000453097_00202_45906_3180.N1	10-DEC-2010 22:57:19	Bright	44.500	180	27Gam Boo	3.0400	8000.0	89	45906	No
356	GOM_NL__2PRFIN20101210_230335_000000403097_00202_45906_3181.N1	10-DEC-2010 23:03:35	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	45906	No
357	GOM_NL__2PRFIN20101210_230709_000000493097_00202_45906_3182.N1	10-DEC-2010 23:07:09	Bright	49.000	138	47Eps Vir	2.8280	4700.0	98	45906	No
358	GOM_NL__2PRFIN20101210_231302_000000503097_00202_45906_3183.N1	10-DEC-2010 23:13:02	Tw_i_and_stray	49.500	15	67Alp Vir	0.97600	28000.	99	45906	No
359	GOM_NL__2PRFIN20101210_231630_000000443097_00202_45906_3184.N1	10-DEC-2010 23:16:30	Twilight	44.000	169	46Gam Hya	2.9910	4700.0	88	45906	No
360	GOM_NL__2PRFIN20101210_231818_000000533097_00202_45906_3185.N1	10-DEC-2010 23:18:18	Dark	53.000	100	4Gam Crv	2.5800	13100.	106	45906	No
361	GOM_NL__2PRFIN20101210_231954_000000583097_00202_45906_3186.N1	10-DEC-2010 23:19:54	Dark	57.500	171	2Eps Crv	3.0010	4250.0	115	45906	No
362	GOM_NL__2PRFIN20101210_232528_000000423097_00202_45906_3187.N1	10-DEC-2010 23:25:28	Dark	41.500	99	Del Cen	2.5750	26000.	83	45906	No
363	GOM_NL__2PRFIN20101210_232902_000000473097_00203_45907_3175.N1	10-DEC-2010 23:29:02	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	45907	No
364	GOM_NL__2PRFIN20101210_233307_000000433097_00203_45907_3176.N1	10-DEC-2010 23:33:07	Dark	42.500	71	Iot Car	2.2460	7700.0	85	45907	No
365	GOM_NL__2PRFIN20101210_233737_000000533097_00203_45907_3177.N1	10-DEC-2010 23:37:37	Dark	52.500	34	Gam2Vel	1.7930	23000.	105	45907	No
366	GOM_NL__2PRFIN20101210_234009_000000563097_00203_45907_3178.N1	10-DEC-2010 23:40:09	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	45907	No
367	GOM_NL__2PRFIN20101210_234237_000000553097_00203_45907_3179.N1	10-DEC-2010 23:42:37	Dark	54.500	117	Pi Pup	2.7060	3800.0	109	45907	No
368	GOM_NL__2PRFIN20101210_234602_000000563097_00203_45907_3180.N1	10-DEC-2010 23:46:02	Dark	56.000	23	21Eps CMa	1.5020	26000.	112	45907	No
369	GOM_NL__2PRFIN20101210_235057_000000573097_00203_45907_3181.N1	10-DEC-2010 23:50:57	Straylight	57.000	47	2Bet CMa	1.9760	28000.	114	45907	No
370	GOM_NL__2PRFIN20101210_235439_000000543097_00203_45907_3182.N1	10-DEC-2010 23:54:39	Straylight	53.500	7	19Bet Ori	0.10000	14000.	107	45907	No
371	GOM_NL__2PRFIN20101210_235705_000000543097_00203_45907_3183.N1	10-DEC-2010 23:57:05	Straylight	53.500	30	46Eps Ori	1.6940	30000.	107	45907	No
372	GOM_NL__2PRFIN20101210_235931_000000523097_00203_45907_3184.N1	10-DEC-2010 23:59:31	Tw_i_and_stray	52.000	27	24Gam Ori	1.6360	26000.	104	45907	No

3. Quality information per product

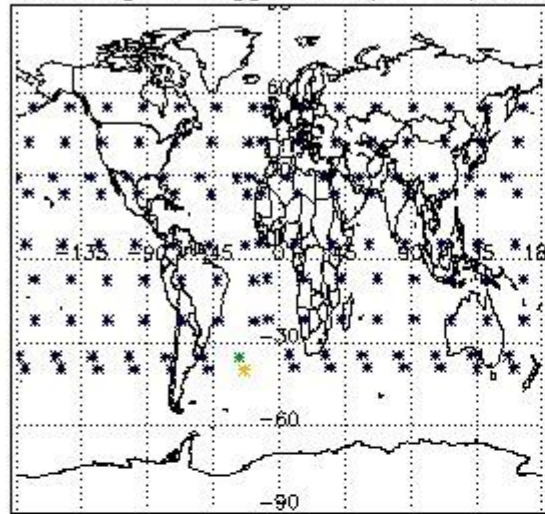
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

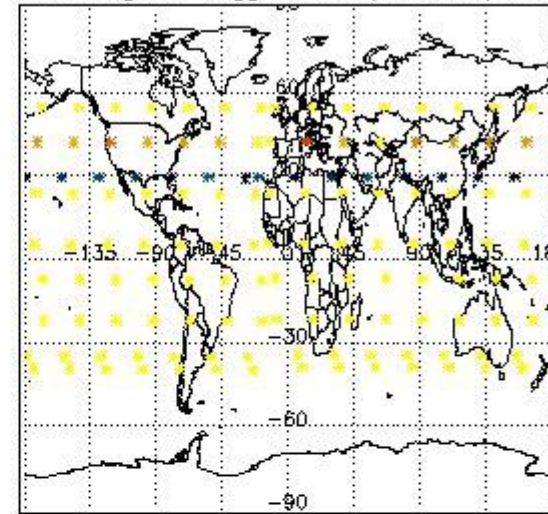


3.2 Plot quality information per product (world map)

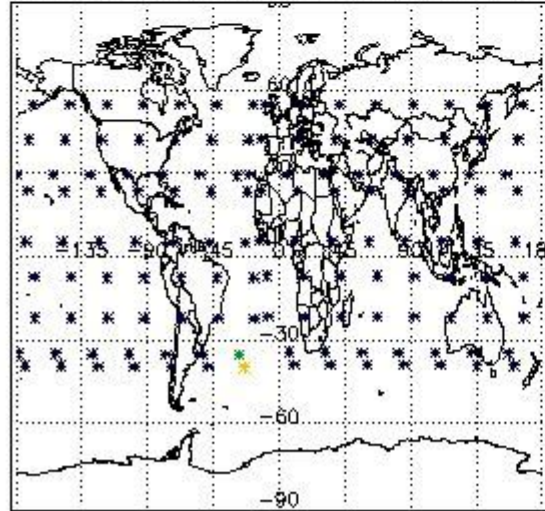
Percentage of flagged data per O3 profile



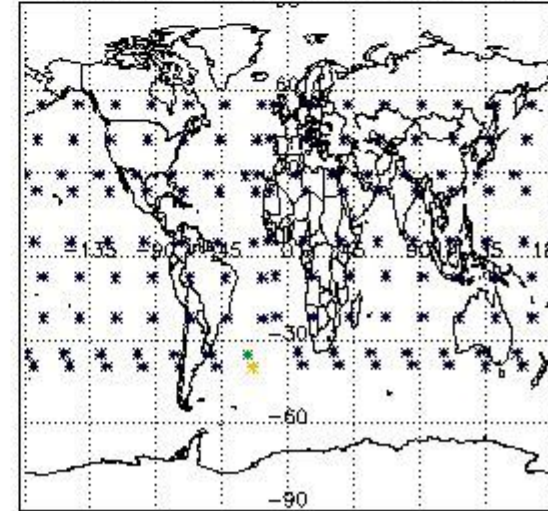
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

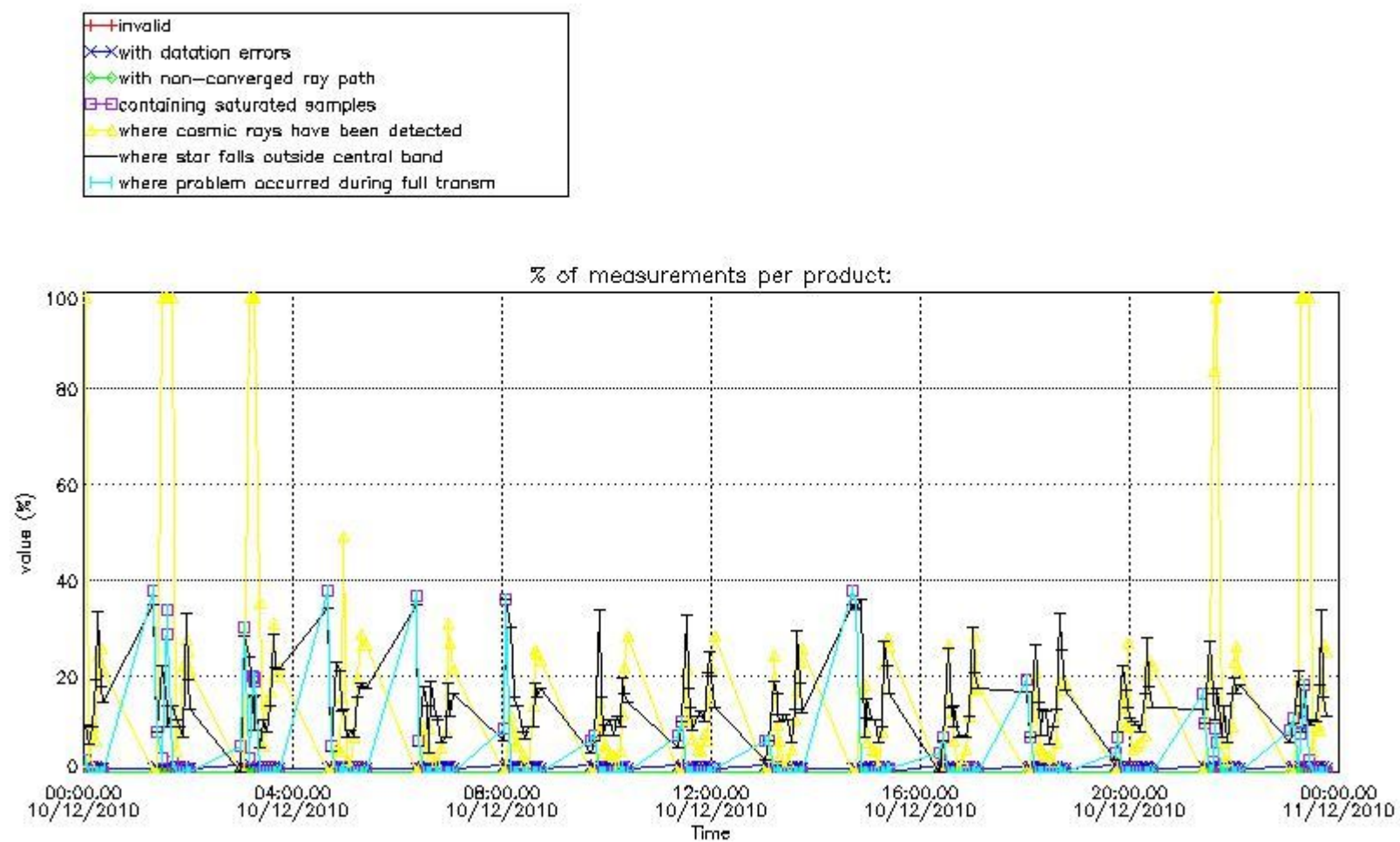


4. Level 1 quality information per product

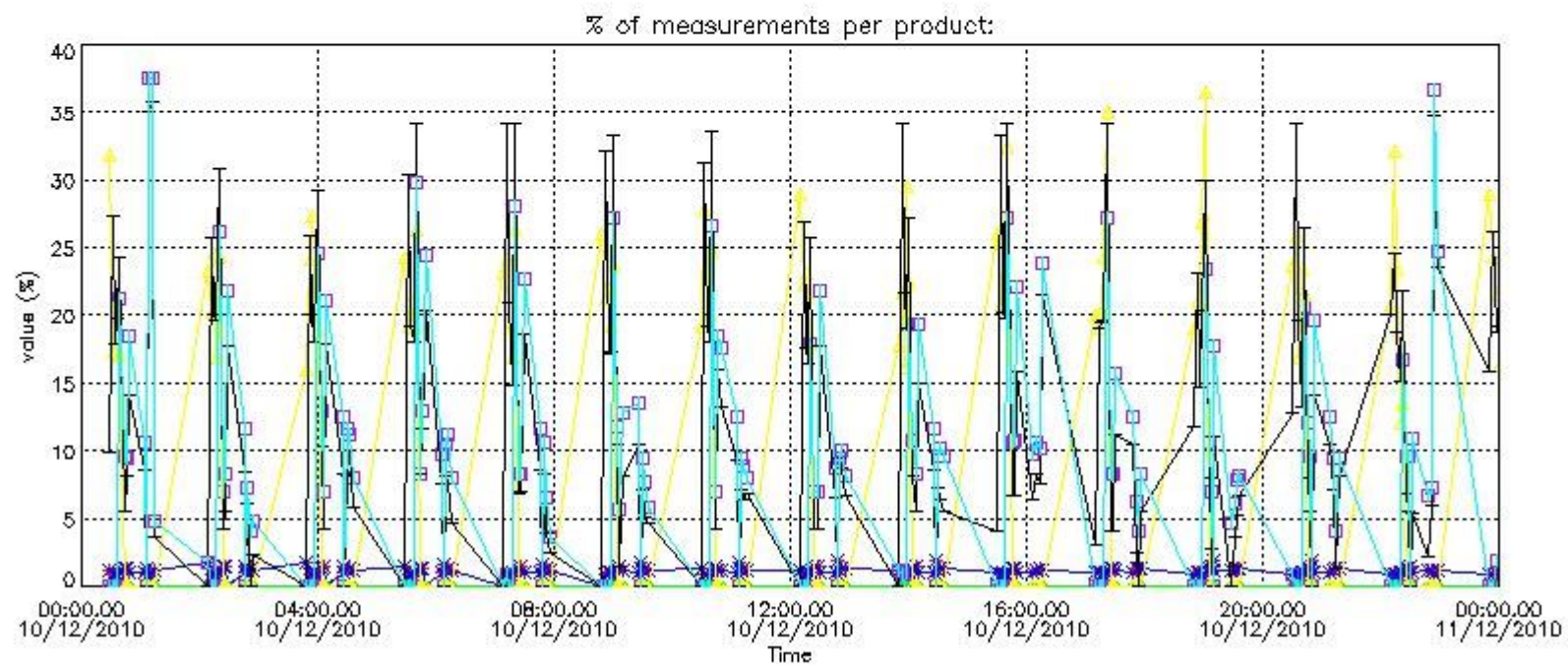
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

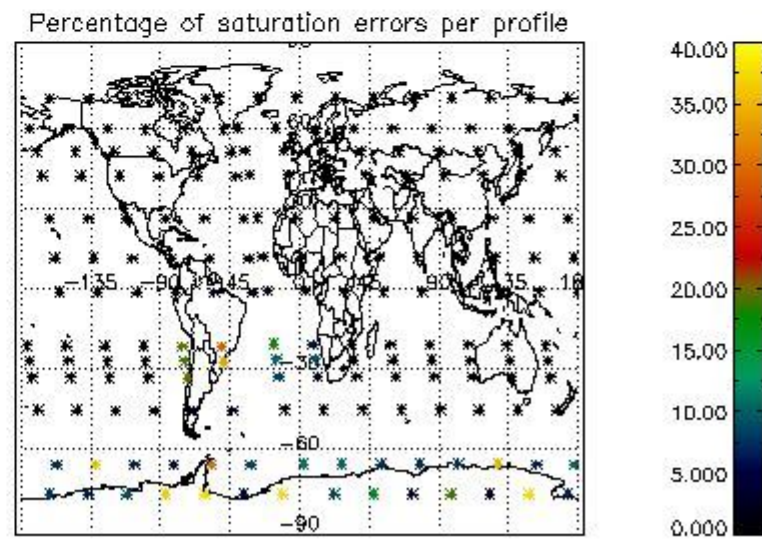
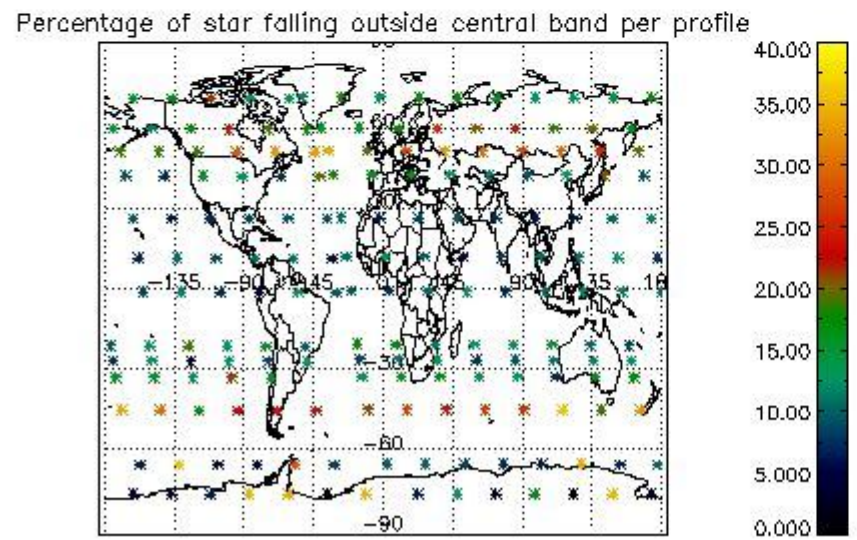
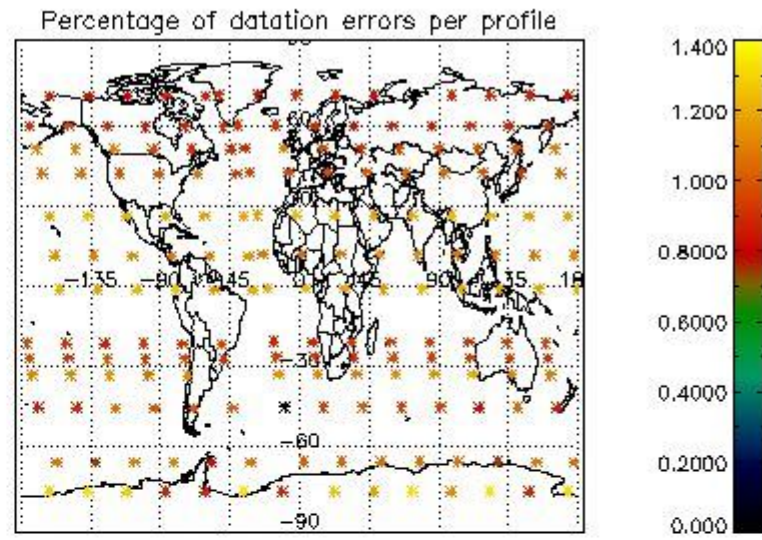
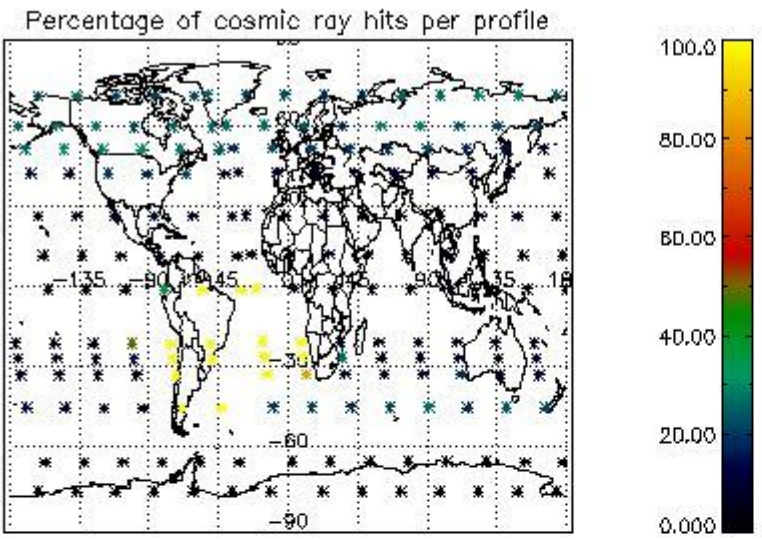


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

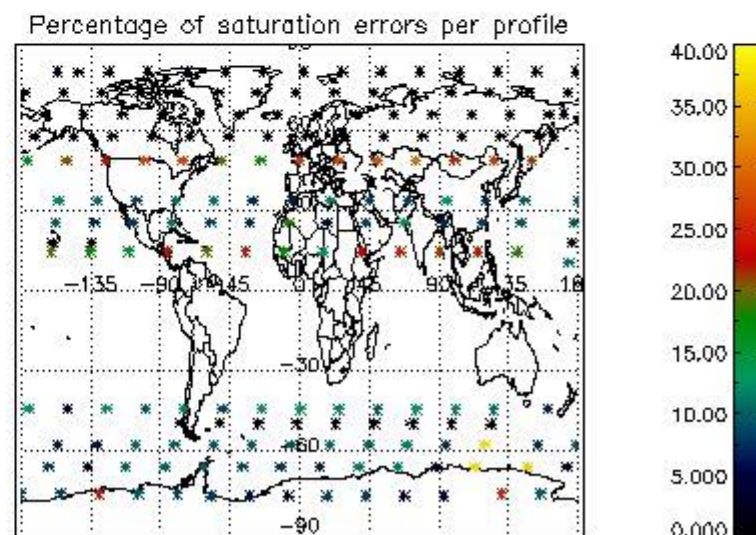
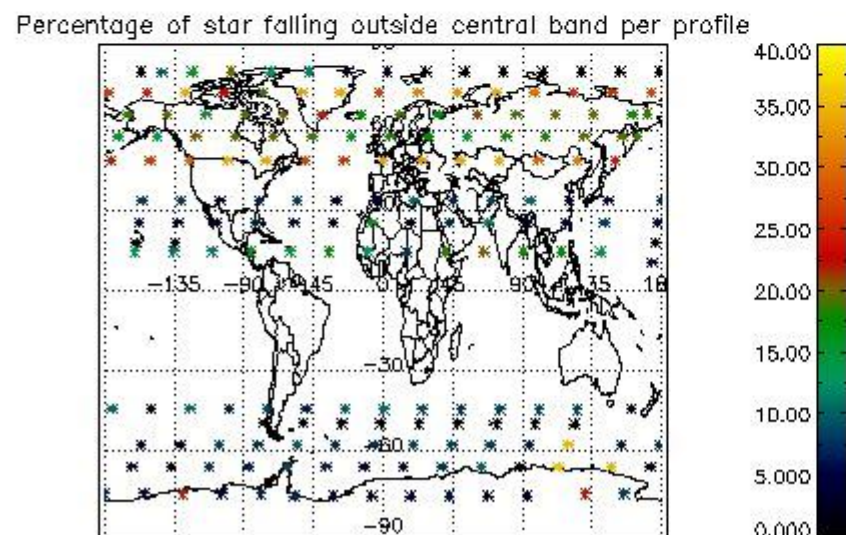
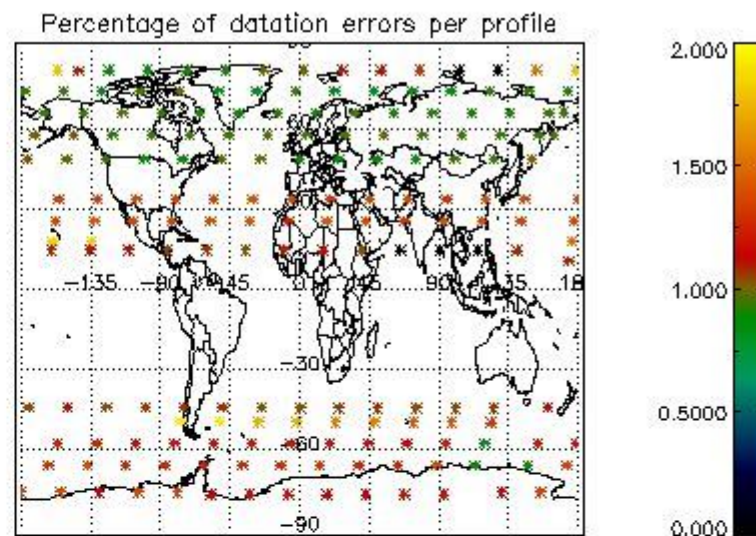
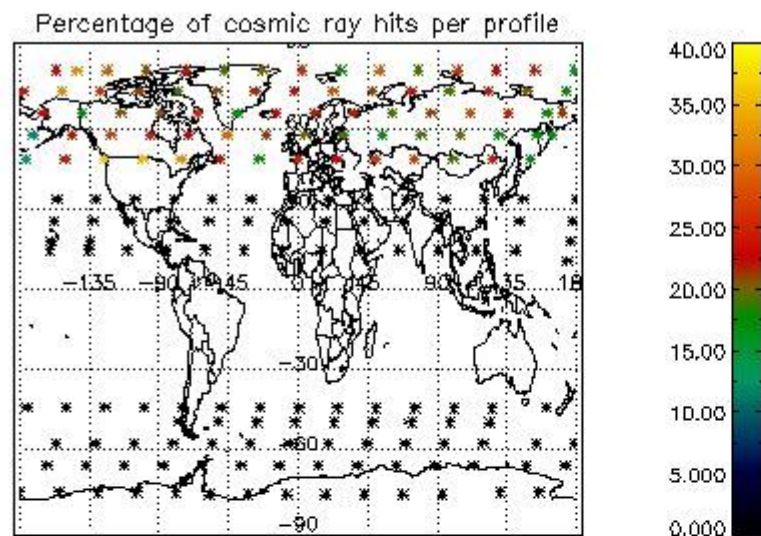


4.2 Plot quality information per product coming from level 1b processing (world map)

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

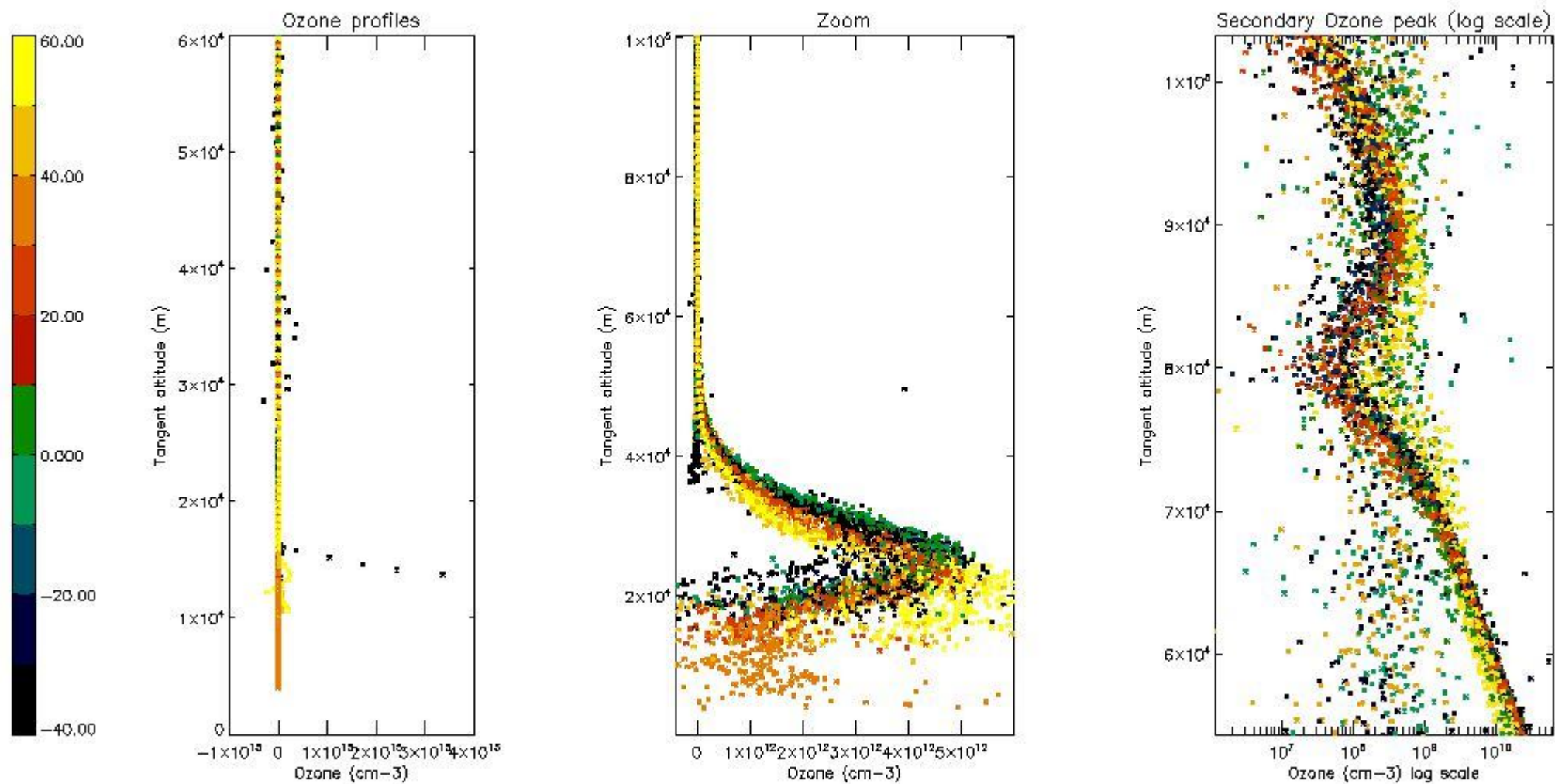
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	18

STD < 10	14
STD < 5	10

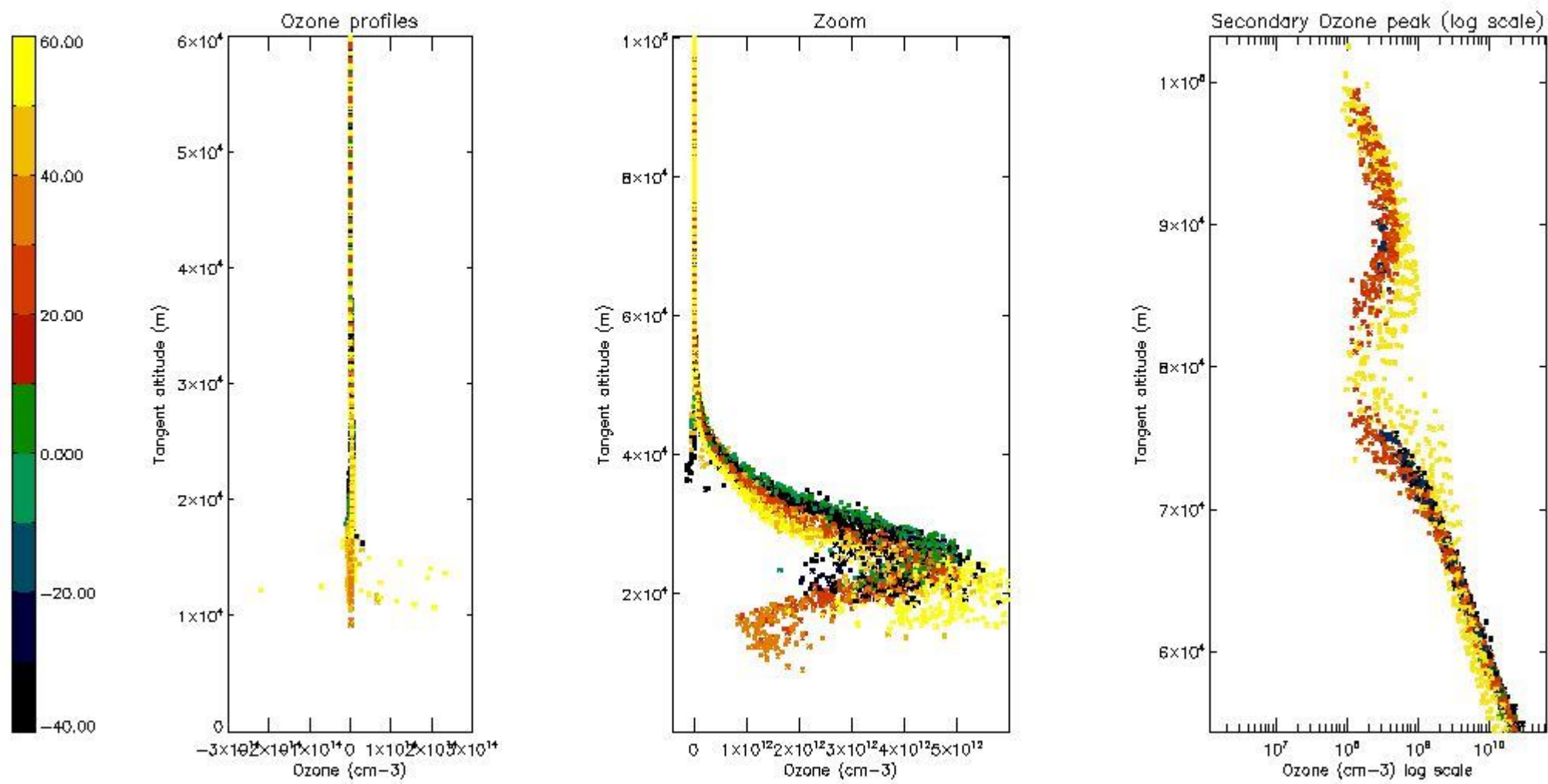
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



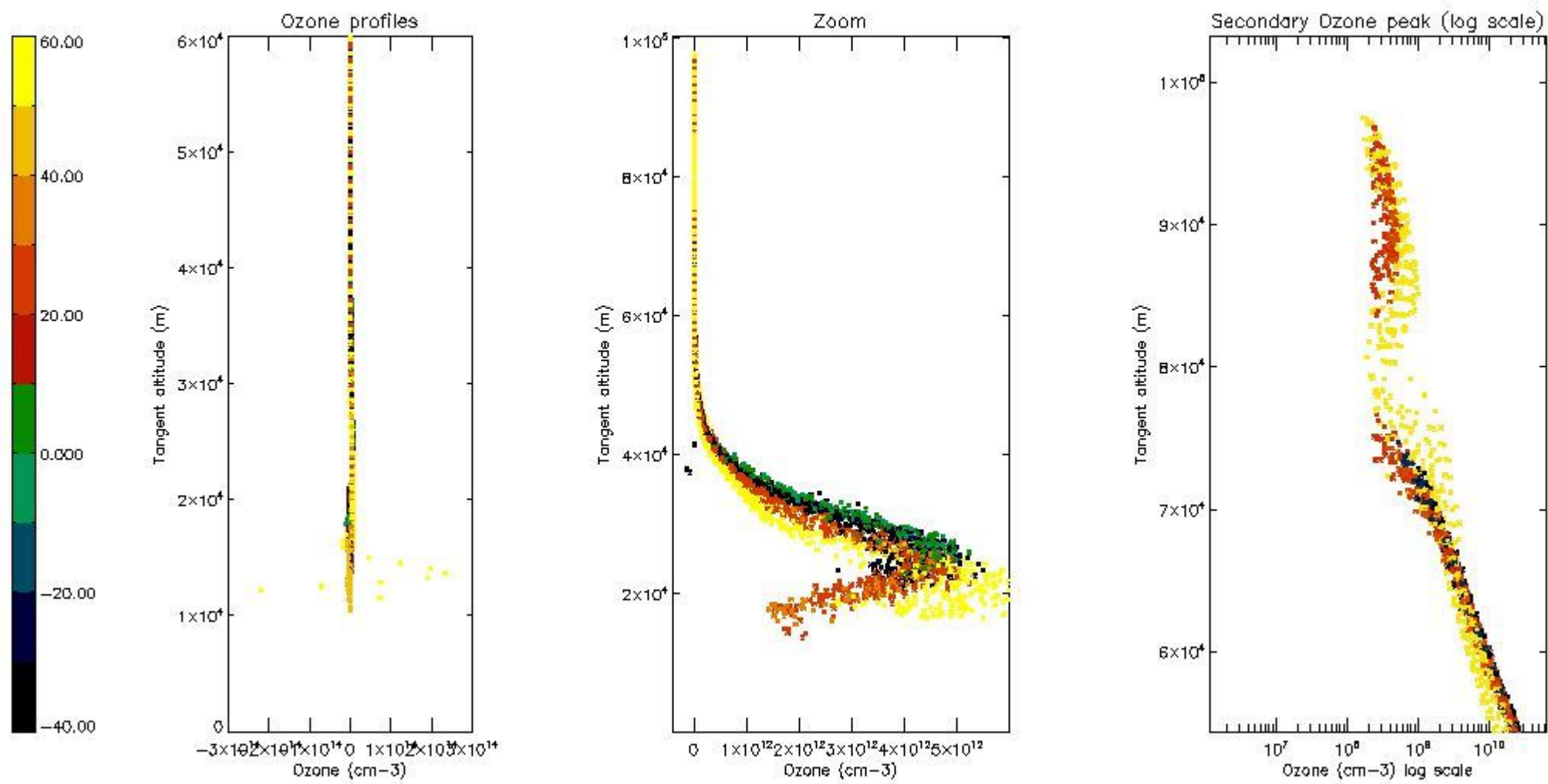
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



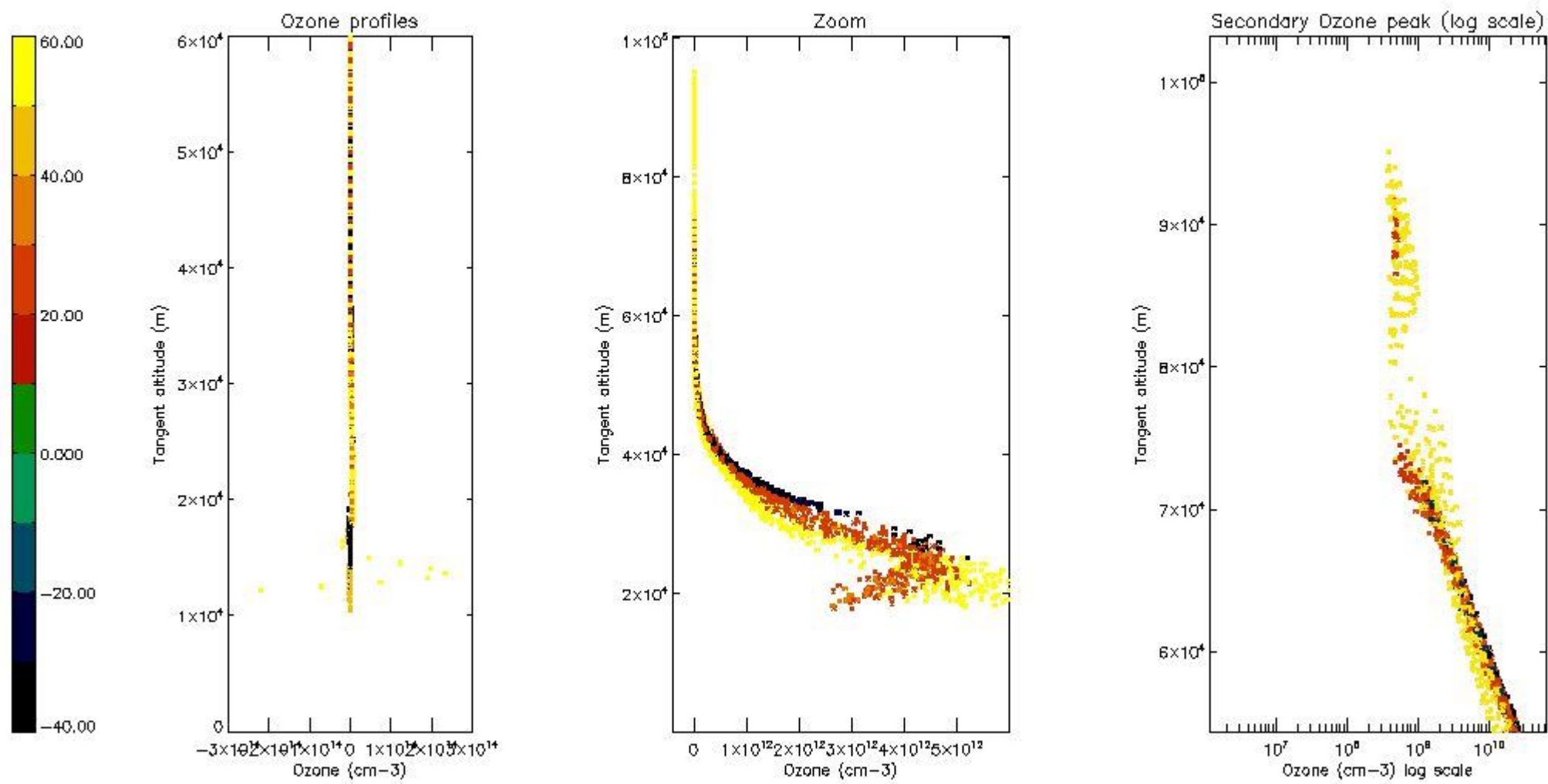
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



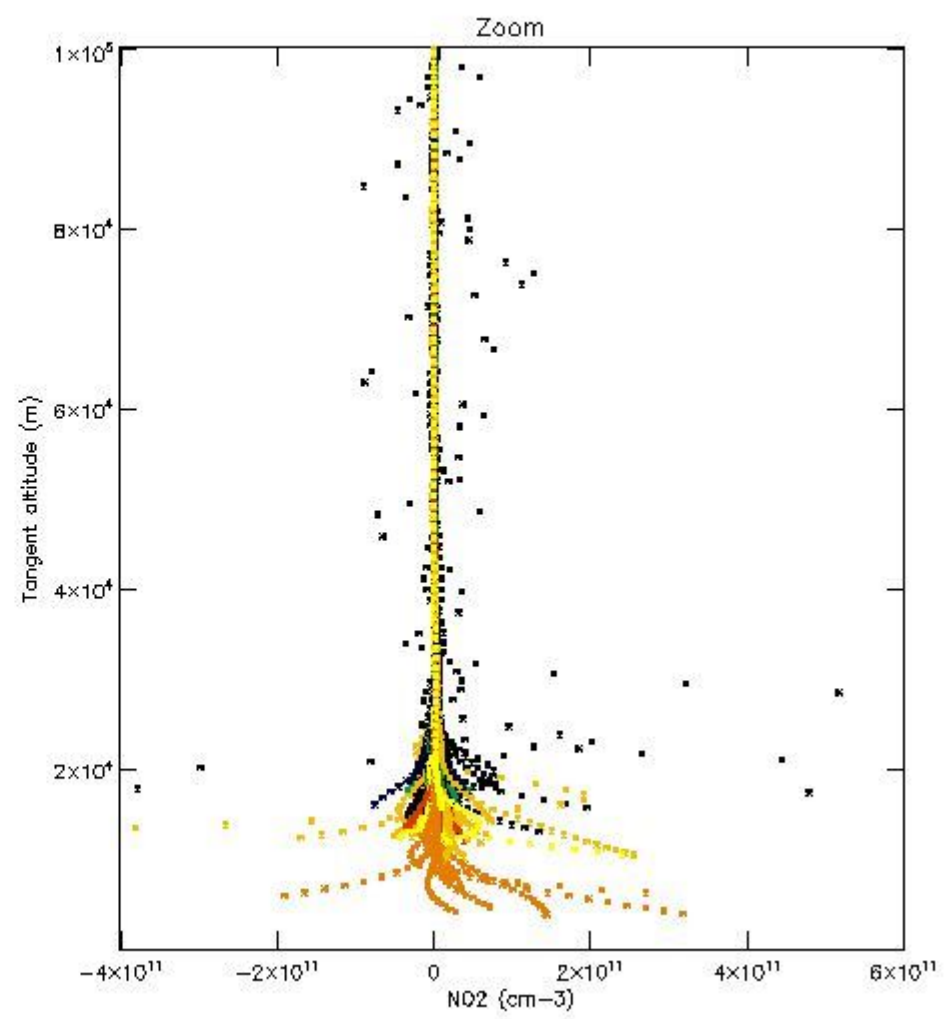
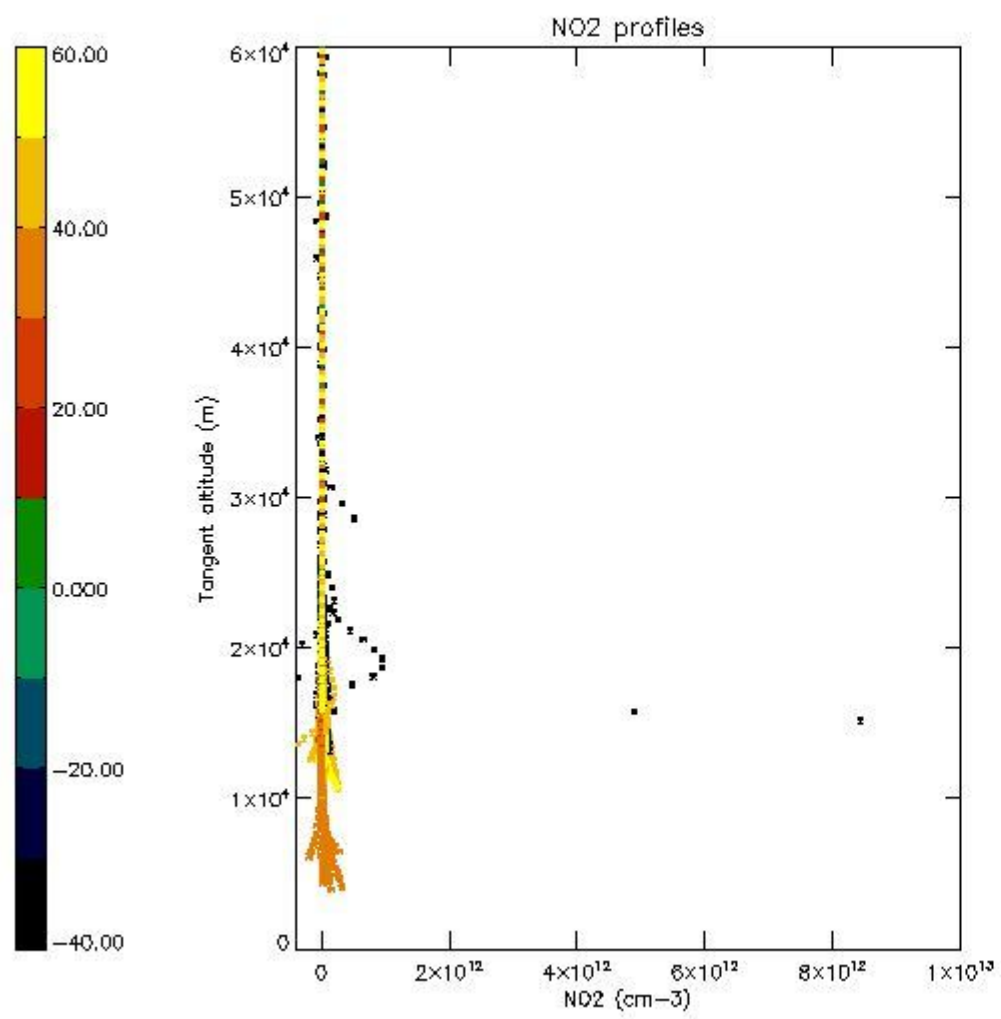
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



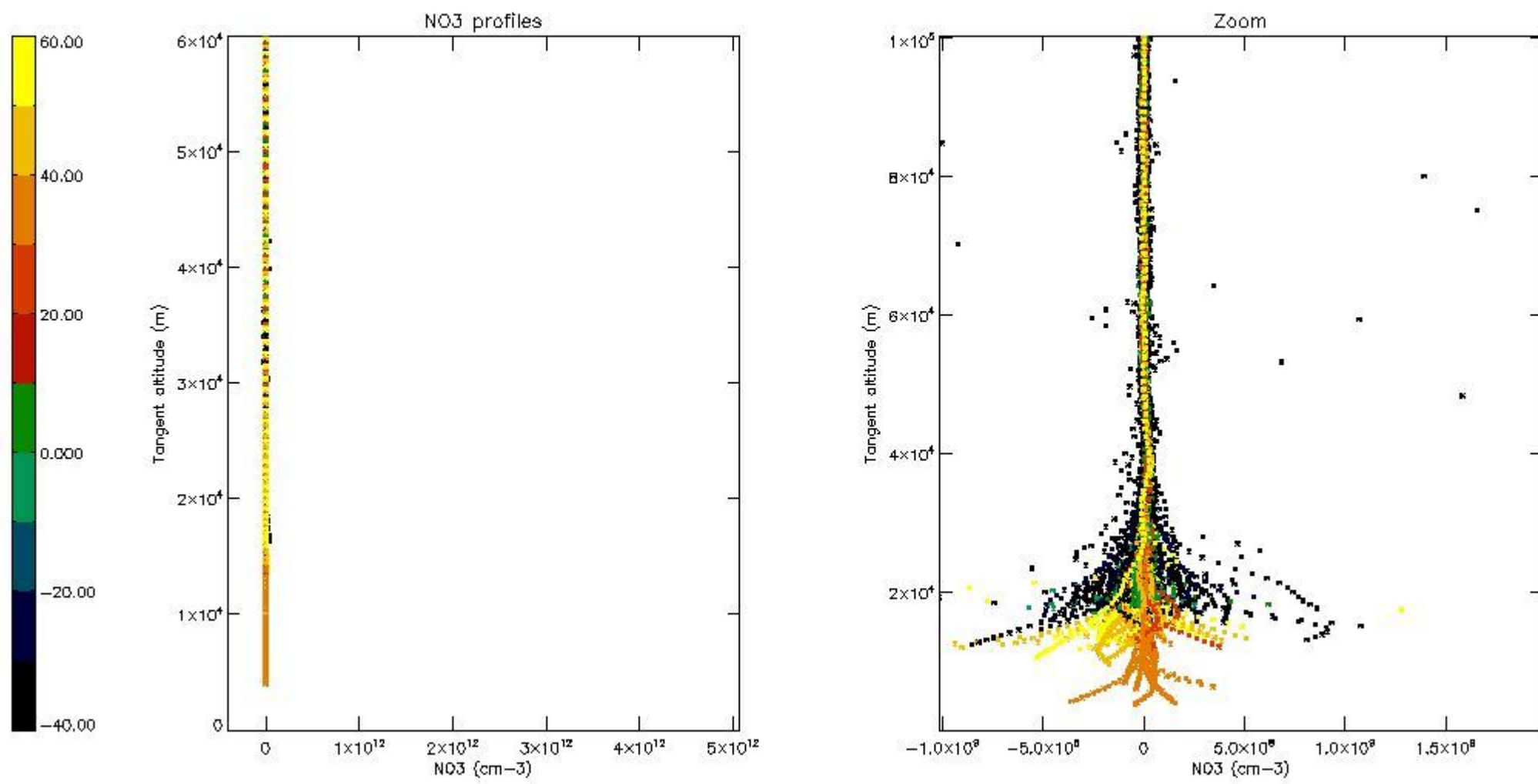
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



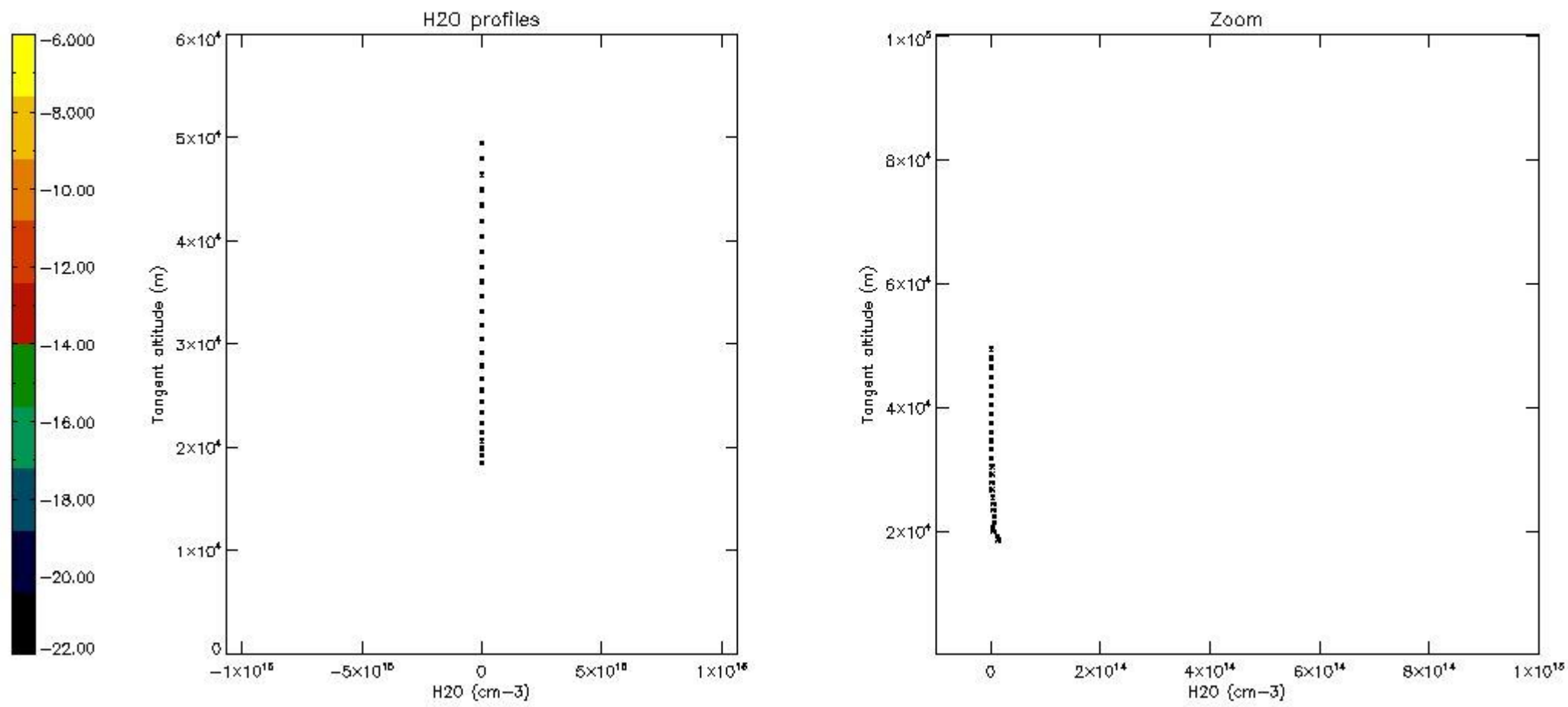
5.7 Plot NO3 profiles for all STD (dark without errors)

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	10-DEC-2010 00:02:03
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	10-DEC-2010 00:02:03
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	10-DEC-2010 00:02:03

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 16:49:34
Data source version	GOMOS/6.01
Start time of products	10-12-2010 (10DEC2010 00:00:00)
Stop time of products	11-12-2010 (11DEC2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	372
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__2PRFIN20101210_000203_000000423097_00188_45892_2760.N1	10-DEC-2010 00:02:03	Dark	41.500	99	Del Cen	2.5750	26000.	83	45892	No
2	GOM_NL__2PRFIN20101210_000533_000000443097_00189_45893_2764.N1	10-DEC-2010 00:05:33	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	45893	No
3	GOM_NL__2PRFIN20101210_000942_000000423097_00189_45893_2765.N1	10-DEC-2010 00:09:42	Dark	42.000	71	Iot Car	2.2460	7700.0	84	45893	No
4	GOM_NL__2PRFIN20101210_001410_000000543097_00189_45893_2766.N1	10-DEC-2010 00:14:10	Dark	54.000	34	Gam2Vel	1.7930	23000.	108	45893	No
5	GOM_NL__2PRFIN20101210_001646_000000563097_00189_45893_2767.N1	10-DEC-2010 00:16:46	Dark	55.500	2	Alp Car	-0.73600	7000.0	111	45893	No
6	GOM_NL__2PRFIN20101210_001911_000000563097_00189_45893_2768.N1	10-DEC-2010 00:19:11	Dark	56.000	117	Pi Pup	2.7060	3800.0	112	45893	No
7	GOM_NL__2PRFIN20101210_002239_000000583097_00189_45893_2769.N1	10-DEC-2010 00:22:39	Dark	58.000	23	21Eps CMa	1.5020	26000.	116	45893	No
8	GOM_NL__2PRFIN20101210_002808_000000463097_00189_45893_2770.N1	10-DEC-2010 00:28:08	Straylight	45.500	101	11Alp Lep	2.5820	7000.0	91	45893	No
9	GOM_NL__2PRFIN20101210_003122_000000553097_00189_45893_2771.N1	10-DEC-2010 00:31:22	Straylight	55.000	7	19Bet Ori	0.10000	14000.	110	45893	No
10	GOM_NL__2PRFIN20101210_003351_000000533097_00189_45893_2772.N1	10-DEC-2010 00:33:51	Straylight	53.000	30	46Eps Ori	1.6940	30000.	106	45893	No
11	GOM_NL__2PRFIN20101210_003619_000000533097_00189_45893_2773.N1	10-DEC-2010 00:36:19	Twilight_stray	53.000	27	24Gam Ori	1.6360	26000.	106	45893	No
12	GOM_NL__2PRFIN20101210_003853_000000503097_00189_45893_2774.N1	10-DEC-2010 00:38:53	Twilight_stray	49.500	13	87Alp Tau	0.86700	3800.0	99	45893	No
13	GOM_NL__2PRFIN20101210_004305_000000373097_00189_45893_2775.N1	10-DEC-2010 00:43:05	Bright	36.500	150	44Zet Per	2.8900	28000.	73	45893	No
14	GOM_NL__2PRFIN20101210_004525_000000373097_00189_45893_2776.N1	10-DEC-2010 00:45:25	Bright	37.000	149	45Eps Per	2.8880	30000.	74	45893	No
15	GOM_NL__2PRFIN20101210_004827_000000463097_00189_45893_2777.N1	10-DEC-2010 00:48:27	Bright	46.000	6	13Alp Aur	0.080000	3400.0	92	45893	No
16	GOM_NL__2PRFIN20101210_010457_000000473097_00189_45893_2778.N1	10-DEC-2010 01:04:57	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	45893	No
17	GOM_NL__2PRFIN20101210_010627_000000383097_00189_45893_2779.N1	10-DEC-2010 01:06:27	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	45893	No
18	GOM_NL__2PRFIN20101210_010845_000000603097_00189_45893_2780.N1	10-DEC-2010 01:08:45	Bright	60.000	32	77Eps UMa	1.7630	11000.	120	45893	No
19	GOM_NL__2PRFIN20101210_011106_000000563097_00189_45893_2781.N1	10-DEC-2010 01:11:06	Bright	56.000	39	85Eta UMa	1.8540	24000.	112	45893	No
20	GOM_NL__2PRFIN20101210_011438_000000423097_00189_45893_2782.N1	10-DEC-2010 01:14:38	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	45893	No
21	GOM_NL__2PRFIN20101210_012029_000000573097_00189_45893_2783.N1	10-DEC-2010 01:20:29	Bright	57.000	111	8Eta Boo	2.6800	6000.0	114	45893	No
22	GOM_NL__2PRFIN20101210_012400_000000473097_00189_45893_2784.N1	10-DEC-2010 01:24:00	Bright	47.000	138	47Eps Vir	2.8280	4700.0	94	45893	No
23	GOM_NL__2PRFIN20101210_012952_000000503097_00189_45893_2785.N1	10-DEC-2010 01:29:52	Bright	49.500	15	67Alp Vir	0.97600	28000.	99	45893	No
24	GOM_NL__2PRFIN20101210_013501_000000553097_00189_45893_2786.N1	10-DEC-2010 01:35:01	Dark	55.000	100	4Gam Crv	2.5800	13100.	110	45893	No
25	GOM_NL__2PRFIN20101210_013637_000000523097_00189_45893_2787.N1	10-DEC-2010 01:36:37	Dark	52.000	171	2Eps Crv	3.0010	4250.0	104	45893	No
26	GOM_NL__2PRFIN20101210_014217_000000443097_00189_45893_2788.N1	10-DEC-2010 01:42:17	Dark	43.500	99	Del Cen	2.5750	26000.	87	45893	No
27	GOM_NL__2PRFIN20101210_014548_000000463097_00190_45894_2777.N1	10-DEC-2010 01:45:48	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45894	No
28	GOM_NL__2PRFIN20101210_014956_000000433097_00190_45894_2778.N1	10-DEC-2010 01:49:56	Dark	42.500	71	Iot Car	2.2460	7700.0	85	45894	No
29	GOM_NL__2PRFIN20101210_015425_000000473097_00190_45894_2779.N1	10-DEC-2010 01:54:25	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	45894	No
30	GOM_NL__2PRFIN20101210_015701_000000563097_00190_45894_2780.N1	10-DEC-2010 01:57:01	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	45894	No
31	GOM_NL__2PRFIN20101210_015926_000000583097_00190_45894_2781.N1	10-DEC-2010 01:59:26	Dark	57.500	117	Pi Pup	2.7060	3800.0	115	45894	No
32	GOM_NL__2PRFIN20101210_020253_000000573097_00190_45894_2782.N1	10-DEC-2010 02:02:53	Dark	57.000	23	21Eps CMa	1.5020	26000.	114	45894	No
33	GOM_NL__2PRFIN20101210_020753_000000283097_00190_45894_2783.N1	10-DEC-2010 02:07:53	Straylight	28.000	47	2Bet CMa	1.9760	28000.	56	45894	No
34	GOM_NL__2PRFIN20101210_021136_000000553097_00190_45894_2784.N1	10-DEC-2010 02:11:36	Straylight	54.500	7	19Bet Ori	0.10000	14000.	109	45894	No
35	GOM_NL__2PRFIN20101210_021405_000000553097_00190_45894_2785.N1	10-DEC-2010 02:14:05	Straylight	55.000	30	46Eps Ori	1.6940	30000.	110	45894	No
36	GOM_NL__2PRFIN20101210_021632_000000543097_00190_45894_2786.N1	10-DEC-2010 02:16:32	Twilight_stray	53.500	27	24Gam Ori	1.6360	26000.	107	45894	No
37	GOM_NL__2PRFIN20101210_021907_000000543097_00190_45894_2787.N1	10-DEC-2010 02:19:07	Twilight_stray	53.500	13	87Alp Tau	0.86700	3800.0	107	45894	No
38	GOM_NL__2PRFIN20101210_022319_000000363097_00190_45894_2788.N1	10-DEC-2010 02:23:19	Bright	36.000	150	44Zet Per	2.8900	28000.	72	45894	No
39	GOM_NL__2PRFIN20101210_022539_000000363097_00190_45894_2789.N1	10-DEC-2010 02:25:39	Bright	36.000	149	45Eps Per	2.8880	30000.	72	45894	No
40	GOM_NL__2PRFIN20101210_022840_000000483097_00190_45894_2790.N1	10-DEC-2010 02:28:40	Bright	48.000	6	13Alp Aur	0.080000	3400.0	96	45894	No
41	GOM_NL__2PRFIN20101210_024510_000000483097_00190_45894_2791.N1	10-DEC-2010 02:45:10	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	45894	No
42	GOM_NL__2PRFIN20101210_024641_000000353097_00190_45894_2792.N1	10-DEC-2010 02:46:41	Twilight_stray	35.000	82	48Bet UMa	2.3650	10600.	70	45894	No

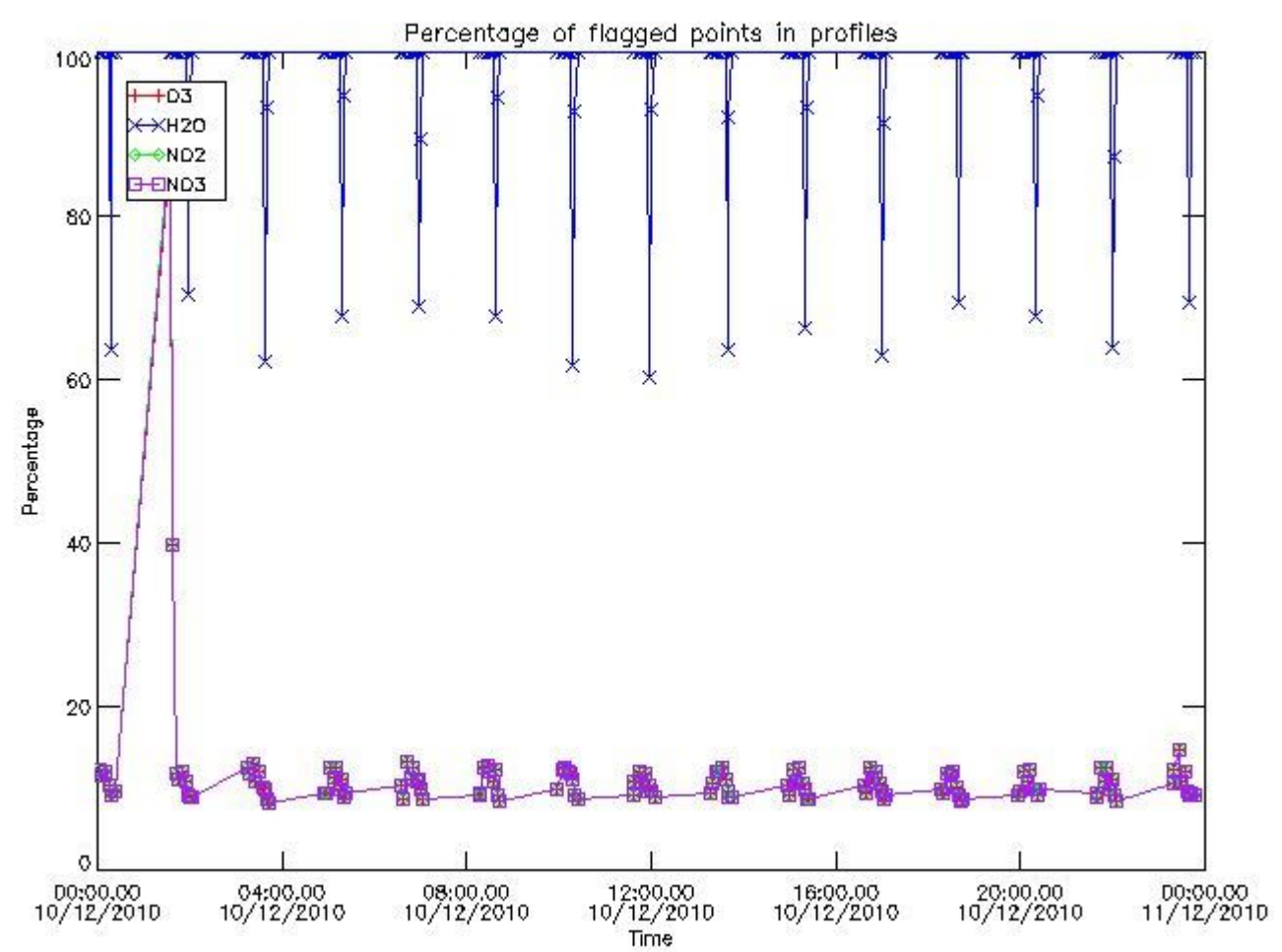
43	GOM_NL__2PRFIN20101210_024859_000000413097_00190_45894_2793.N1	10-DEC-2010 02:48:59	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	45894	No
44	GOM_NL__2PRFIN20101210_025120_000000373097_00190_45894_2794.N1	10-DEC-2010 02:51:20	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	45894	No
45	GOM_NL__2PRFIN20101210_025452_000000423097_00190_45894_2795.N1	10-DEC-2010 02:54:52	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	45894	No
46	GOM_NL__2PRFIN20101210_030044_000000383097_00190_45894_2796.N1	10-DEC-2010 03:00:44	Bright	37.500	111	8Eta Boo	2.6800	6000.0	75	45894	No
47	GOM_NL__2PRFIN20101210_030414_000000623097_00190_45894_2797.N1	10-DEC-2010 03:04:14	Bright	61.500	138	47Eps Vir	2.8280	4700.0	123	45894	No
48	GOM_NL__2PRFIN20101210_031007_000000503097_00190_45894_2798.N1	10-DEC-2010 03:10:07	Bright	50.000	15	67Alp Vir	0.97600	28000.	100	45894	No
49	GOM_NL__2PRFIN20101210_031334_000000453097_00190_45894_2799.N1	10-DEC-2010 03:13:34	Twilight	45.000	169	46Gam Hya	2.9910	4700.0	90	45894	No
50	GOM_NL__2PRFIN20101210_031516_000000533097_00190_45894_2800.N1	10-DEC-2010 03:15:16	Dark	52.500	100	4Gam Crv	2.5800	13100.	105	45894	No
51	GOM_NL__2PRFIN20101210_031653_000000563097_00190_45894_2801.N1	10-DEC-2010 03:16:53	Dark	56.000	171	2Eps Crv	3.0010	4250.0	112	45894	No
52	GOM_NL__2PRFIN20101210_032232_000000403097_00190_45894_2802.N1	10-DEC-2010 03:22:32	Dark	39.500	99	Del Cen	2.5750	26000.	79	45894	No
53	GOM_NL__2PRFIN20101210_032603_000000473097_00191_45895_2813.N1	10-DEC-2010 03:26:03	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	45895	No
54	GOM_NL__2PRFIN20101210_033011_000000423097_00191_45895_2814.N1	10-DEC-2010 03:30:11	Dark	42.000	71	Iot Car	2.2460	7700.0	84	45895	No
55	GOM_NL__2PRFIN20101210_033439_000000513097_00191_45895_2815.N1	10-DEC-2010 03:34:39	Dark	50.500	34	Gam2Vel	1.7930	23000.	101	45895	No
56	GOM_NL__2PRFIN20101210_033716_000000523097_00191_45895_2816.N1	10-DEC-2010 03:37:16	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	45895	No
57	GOM_NL__2PRFIN20101210_033941_000000603097_00191_45895_2817.N1	10-DEC-2010 03:39:41	Dark	59.500	117	Pi Pup	2.7060	3800.0	119	45895	No
58	GOM_NL__2PRFIN20101210_034308_000000633097_00191_45895_2818.N1	10-DEC-2010 03:43:08	Dark	63.000	23	21Eps CMa	1.5020	26000.	126	45895	No
59	GOM_NL__2PRFIN20101210_034807_000000283097_00191_45895_2819.N1	10-DEC-2010 03:48:07	Straylight	28.000	47	2Bet CMa	1.9760	28000.	56	45895	No
60	GOM_NL__2PRFIN20101210_035150_000000543097_00191_45895_2820.N1	10-DEC-2010 03:51:50	Straylight	54.000	7	19Bet Ori	0.10000	14000.	108	45895	No
61	GOM_NL__2PRFIN20101210_035418_000000553097_00191_45895_2821.N1	10-DEC-2010 03:54:18	Straylight	55.000	30	46Eps Ori	1.6940	30000.	110	45895	No
62	GOM_NL__2PRFIN20101210_035646_000000533097_00191_45895_2822.N1	10-DEC-2010 03:56:46	Tw_i_and_stray	52.500	27	24Gam Ori	1.6360	26000.	105	45895	No
63	GOM_NL__2PRFIN20101210_035921_000000533097_00191_45895_2823.N1	10-DEC-2010 03:59:21	Tw_i_and_stray	53.000	13	87Alp Tau	0.86700	3800.0	106	45895	No
64	GOM_NL__2PRFIN20101210_040333_000000393097_00191_45895_2824.N1	10-DEC-2010 04:03:33	Bright	38.500	150	44Zet Per	2.8900	28000.	77	45895	No
65	GOM_NL__2PRFIN20101210_040553_000000363097_00191_45895_2825.N1	10-DEC-2010 04:05:53	Bright	35.500	149	45Eps Per	2.8880	30000.	71	45895	No
66	GOM_NL__2PRFIN20101210_040854_000000483097_00191_45895_2826.N1	10-DEC-2010 04:08:54	Bright	47.500	6	13Alp Aur	0.080000	3400.0	95	45895	No
67	GOM_NL__2PRFIN20101210_042524_000000483097_00191_45895_2827.N1	10-DEC-2010 04:25:24	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	45895	No
68	GOM_NL__2PRFIN20101210_042654_000000353097_00191_45895_2828.N1	10-DEC-2010 04:26:54	Tw_i_and_stray	35.000	82	48Bet UMa	2.3650	10600.	70	45895	No
69	GOM_NL__2PRFIN20101210_042913_000000433097_00191_45895_2829.N1	10-DEC-2010 04:29:13	Bright	43.000	32	77Eps UMa	1.7630	11000.	86	45895	No
70	GOM_NL__2PRFIN20101210_043134_000000403097_00191_45895_2830.N1	10-DEC-2010 04:31:34	Bright	40.000	39	85Eta UMa	1.8540	24000.	80	45895	No
71	GOM_NL__2PRFIN20101210_043506_000000443097_00191_45895_2831.N1	10-DEC-2010 04:35:06	Bright	43.500	152	12Alp2CVn	2.8900	11000.	87	45895	No
72	GOM_NL__2PRFIN20101210_044058_000000573097_00191_45895_2832.N1	10-DEC-2010 04:40:58	Bright	57.000	111	8Eta Boo	2.6800	6000.0	114	45895	No
73	GOM_NL__2PRFIN20101210_044429_000000463097_00191_45895_2833.N1	10-DEC-2010 04:44:29	Bright	45.500	138	47Eps Vir	2.8280	4700.0	91	45895	No
74	GOM_NL__2PRFIN20101210_045021_000000513097_00191_45895_2834.N1	10-DEC-2010 04:50:21	Bright	50.500	15	67Alp Vir	0.97600	28000.	101	45895	No
75	GOM_NL__2PRFIN20101210_045349_000000483097_00191_45895_2835.N1	10-DEC-2010 04:53:49	Twilight	47.500	169	46Gam Hya	2.9910	4700.0	95	45895	No
76	GOM_NL__2PRFIN20101210_045532_000000553097_00191_45895_2836.N1	10-DEC-2010 04:55:32	Dark	54.500	100	4Gam Crv	2.5800	13100.	109	45895	No
77	GOM_NL__2PRFIN20101210_045708_000000543097_00191_45895_2837.N1	10-DEC-2010 04:57:08	Dark	54.000	171	2Eps Crv	3.0010	4250.0	108	45895	No
78	GOM_NL__2PRFIN20101210_050247_000000413097_00191_45895_2838.N1	10-DEC-2010 05:02:47	Dark	40.500	99	Del Cen	2.5750	26000.	81	45895	No
79	GOM_NL__2PRFIN20101210_050618_000000453097_00192_45896_2828.N1	10-DEC-2010 05:06:18	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	45896	No
80	GOM_NL__2PRFIN20101210_051026_000000413097_00192_45896_2829.N1	10-DEC-2010 05:10:26	Dark	41.000	71	Iot Car	2.2460	7700.0	82	45896	No
81	GOM_NL__2PRFIN20101210_051454_000000513097_00192_45896_2830.N1	10-DEC-2010 05:14:54	Dark	51.000	34	Gam2Vel	1.7930	23000.	102	45896	No
82	GOM_NL__2PRFIN20101210_051730_000000463097_00192_45896_2831.N1	10-DEC-2010 05:17:30	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	45896	No
83	GOM_NL__2PRFIN20101210_051956_000000573097_00192_45896_2832.N1	10-DEC-2010 05:19:56	Dark	56.500	117	Pi Pup	2.7060	3800.0	113	45896	No
84	GOM_NL__2PRFIN20101210_052322_000000603097_00192_45896_2833.N1	10-DEC-2010 05:23:22	Dark	60.000	23	21Eps CMa	1.5020	26000.	120	45896	No
85	GOM_NL__2PRFIN20101210_052821_000000333097_00192_45896_2834.N1	10-DEC-2010 05:28:21	Straylight	33.000	47	2Bet CMa	1.9760	28000.	66	45896	No
86	GOM_NL__2PRFIN20101210_053204_000000583097_00192_45896_2835.N1	10-DEC-2010 05:32:04	Straylight	57.500	7	19Bet Ori	0.10000	14000.	115	45896	No
87	GOM_NL__2PRFIN20101210_053432_000000553097_00192_45896_2836.N1	10-DEC-2010 05:34:32	Straylight	54.500	30	46Eps Ori	1.6940	30000.	109	45896	No
88	GOM_NL__2PRFIN20101210_053700_000000533097_00192_45896_2837.N1	10-DEC-2010 05:37:00	Tw_i_and_stray	52.500	27	24Gam Ori	1.6360	26000.	105	45896	No
89	GOM_NL__2PRFIN20101210_053935_000000573097_00192_45896_2838.N1	10-DEC-2010 05:39:35	Tw_i_and_stray	57.000	13	87Alp Tau	0.86700	3800.0	114	45896	No
90	GOM_NL__2PRFIN20101210_054347_000000373097_00192_45896_2839.N1	10-DEC-2010 05:43:47	Bright	36.500	150	44Zet Per	2.8900	28000.	73	45896	No
91	GOM_NL__2PRFIN20101210_054607_000000393097_00192_45896_2840.N1	10-DEC-2010 05:46:07	Bright	38.500	149	45Eps Per	2.8880	30000.	77	45896	No
92	GOM_NL__2PRFIN20101210_054907_000000493097_00192_45896_2841.N1	10-DEC-2010 05:49:07	Bright	49.000	6	13Alp Aur	0.080000	3400.0	98	45896	No
93	GOM_NL__2PRFIN20101210_060538_000000473097_00192_45896_2842.N1	10-DEC-2010 06:05:38	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	45896	No
94	GOM_NL__2PRFIN20101210_060708_000000323097_00192_45896_2843.N1	10-DEC-2010 06:07:08	Tw_i_and_stray	32.000	82	48Bet UMa	2.3650	10600.	64	45896	No
95	GOM_NL__2PRFIN20101210_060927_000000433097_00192_45896_2844.N1	10-DEC-2010 06:09:27	Bright	43.000	32	77Eps UMa	1.7630	11000.	86	45896	No
96	GOM_NL__2PRFIN20101210_061149_000000403097_00192_45896_2845.N1	10-DEC-2010 06:11:49	Bright	40.000	39	85Eta UMa	1.8540	24000.	80	45896	No
97	GOM_NL__2PRFIN20101210_061520_000000443097_00192_45896_2846.N1	10-DEC-2010 06:15:20	Bright	43.500	152	12Alp2CVn	2.8900	11000.	87	45896	No
98	GOM_NL__2PRFIN20101210_062112_000000573097_00192_45896_2847.N1	10-DEC-2010 06:21:12	Bright	57.000	111	8Eta Boo	2.6800	6000.0	114	45896	No
99	GOM_NL__2PRFIN20101210_062444_000000463097_00192_45896_2848.N1	10-DEC-2010 06:24:44	Bright	46.000	138	47Eps Vir	2.8280	4700.0	92	45896	No
100	GOM_NL__2PRFIN20101210_063036_000000483097_00192_45896_2849.N1	10-DEC-2010 06:30:36	Bright	47.500	15	67Alp Vir	0.97600	28000.	95	45896	No
101	GOM_NL__2PRFIN20101210_063404_000000443097_00192_45896_2850.N1	10-DEC-2010 06:34:04	Twilight	44.000	169	46Gam Hya	2.9910	4700.0	88	45896	No

338	GOM_NL__2PRFIN20101210_215253_000000413097_00202_45906_3163.N1	10-DEC-2010 21:52:53	Dark	40.500	71	Iot Car	2.2460	7700.0	81	45906	No
339	GOM_NL__2PRFIN20101210_215723_000000523097_00202_45906_3164.N1	10-DEC-2010 21:57:23	Dark	52.000	34	Gam2Vel	1.7930	23000.	104	45906	No
340	GOM_NL__2PRFIN20101210_215955_000000463097_00202_45906_3165.N1	10-DEC-2010 21:59:55	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	45906	No
341	GOM_NL__2PRFIN20101210_220223_000000563097_00202_45906_3166.N1	10-DEC-2010 22:02:23	Dark	55.500	117	Pi Pup	2.7060	3800.0	111	45906	No
342	GOM_NL__2PRFIN20101210_220548_000000603097_00202_45906_3167.N1	10-DEC-2010 22:05:48	Dark	60.000	23	21Eps CMa	1.5020	26000.	120	45906	No
343	GOM_NL__2PRFIN20101210_221043_000000603097_00202_45906_3168.N1	10-DEC-2010 22:10:43	Straylight	60.000	47	2Bet CMa	1.9760	28000.	120	45906	No
344	GOM_NL__2PRFIN20101210_221425_000000533097_00202_45906_3169.N1	10-DEC-2010 22:14:25	Straylight	53.000	7	19Bet Ori	0.10000	14000.	106	45906	No
345	GOM_NL__2PRFIN20101210_221651_000000543097_00202_45906_3170.N1	10-DEC-2010 22:16:51	Straylight	53.500	30	46Eps Ori	1.6940	30000.	107	45906	No
346	GOM_NL__2PRFIN20101210_221918_000000503097_00202_45906_3171.N1	10-DEC-2010 22:19:18	Tw_i_and_stray	49.500	27	24Gam Ori	1.6360	26000.	99	45906	No
347	GOM_NL__2PRFIN20101210_222154_000000483097_00202_45906_3172.N1	10-DEC-2010 22:21:54	Tw_i_and_stray	48.000	13	87Alp Tau	0.86700	3800.0	96	45906	No
348	GOM_NL__2PRFIN20101210_222606_000000373097_00202_45906_3173.N1	10-DEC-2010 22:26:06	Bright	36.500	150	44Zet Per	2.8900	28000.	73	45906	No
349	GOM_NL__2PRFIN20101210_222826_000000373097_00202_45906_3174.N1	10-DEC-2010 22:28:26	Bright	36.500	149	45Eps Per	2.8880	30000.	73	45906	No
350	GOM_NL__2PRFIN20101210_223028_000000333097_00202_45906_3175.N1	10-DEC-2010 22:30:28	Tw_i_and_stray	33.000	107	37The Aur	2.6490	11000.	66	45906	No
351	GOM_NL__2PRFIN20101210_223233_000000463097_00202_45906_3176.N1	10-DEC-2010 22:32:33	Bright	46.000	42	34Bet Aur	1.9000	10200.	92	45906	No
352	GOM_NL__2PRFIN20101210_224753_000000453097_00202_45906_3177.N1	10-DEC-2010 22:47:53	Bright	44.500	36	50Alp UMa	1.8000	6300.0	89	45906	No
353	GOM_NL__2PRFIN20101210_225145_000000423097_00202_45906_3178.N1	10-DEC-2010 22:51:45	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	45906	No
354	GOM_NL__2PRFIN20101210_225408_000000563097_00202_45906_3179.N1	10-DEC-2010 22:54:08	Bright	56.000	39	85Eta UMa	1.8540	24000.	112	45906	No
355	GOM_NL__2PRFIN20101210_225719_000000453097_00202_45906_3180.N1	10-DEC-2010 22:57:19	Bright	44.500	180	27Gam Boo	3.0400	8000.0	89	45906	No
356	GOM_NL__2PRFIN20101210_230335_000000403097_00202_45906_3181.N1	10-DEC-2010 23:03:35	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	45906	No
357	GOM_NL__2PRFIN20101210_230709_000000493097_00202_45906_3182.N1	10-DEC-2010 23:07:09	Bright	49.000	138	47Eps Vir	2.8280	4700.0	98	45906	No
358	GOM_NL__2PRFIN20101210_231302_000000503097_00202_45906_3183.N1	10-DEC-2010 23:13:02	Tw_i_and_stray	49.500	15	67Alp Vir	0.97600	28000.	99	45906	No
359	GOM_NL__2PRFIN20101210_231630_000000443097_00202_45906_3184.N1	10-DEC-2010 23:16:30	Twilight	44.000	169	46Gam Hya	2.9910	4700.0	88	45906	No
360	GOM_NL__2PRFIN20101210_231818_000000533097_00202_45906_3185.N1	10-DEC-2010 23:18:18	Dark	53.000	100	4Gam Crv	2.5800	13100.	106	45906	No
361	GOM_NL__2PRFIN20101210_231954_000000583097_00202_45906_3186.N1	10-DEC-2010 23:19:54	Dark	57.500	171	2Eps Crv	3.0010	4250.0	115	45906	No
362	GOM_NL__2PRFIN20101210_232528_000000423097_00202_45906_3187.N1	10-DEC-2010 23:25:28	Dark	41.500	99	Del Cen	2.5750	26000.	83	45906	No
363	GOM_NL__2PRFIN20101210_232902_000000473097_00203_45907_3175.N1	10-DEC-2010 23:29:02	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	45907	No
364	GOM_NL__2PRFIN20101210_233307_000000433097_00203_45907_3176.N1	10-DEC-2010 23:33:07	Dark	42.500	71	Iot Car	2.2460	7700.0	85	45907	No
365	GOM_NL__2PRFIN20101210_233737_000000533097_00203_45907_3177.N1	10-DEC-2010 23:37:37	Dark	52.500	34	Gam2Vel	1.7930	23000.	105	45907	No
366	GOM_NL__2PRFIN20101210_234009_000000563097_00203_45907_3178.N1	10-DEC-2010 23:40:09	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	45907	No
367	GOM_NL__2PRFIN20101210_234237_000000553097_00203_45907_3179.N1	10-DEC-2010 23:42:37	Dark	54.500	117	Pi Pup	2.7060	3800.0	109	45907	No
368	GOM_NL__2PRFIN20101210_234602_000000563097_00203_45907_3180.N1	10-DEC-2010 23:46:02	Dark	56.000	23	21Eps CMa	1.5020	26000.	112	45907	No
369	GOM_NL__2PRFIN20101210_235057_000000573097_00203_45907_3181.N1	10-DEC-2010 23:50:57	Straylight	57.000	47	2Bet CMa	1.9760	28000.	114	45907	No
370	GOM_NL__2PRFIN20101210_235439_000000543097_00203_45907_3182.N1	10-DEC-2010 23:54:39	Straylight	53.500	7	19Bet Ori	0.10000	14000.	107	45907	No
371	GOM_NL__2PRFIN20101210_235705_000000543097_00203_45907_3183.N1	10-DEC-2010 23:57:05	Straylight	53.500	30	46Eps Ori	1.6940	30000.	107	45907	No
372	GOM_NL__2PRFIN20101210_235931_000000523097_00203_45907_3184.N1	10-DEC-2010 23:59:31	Tw_i_and_stray	52.000	27	24Gam Ori	1.6360	26000.	104	45907	No

3. Quality information per product

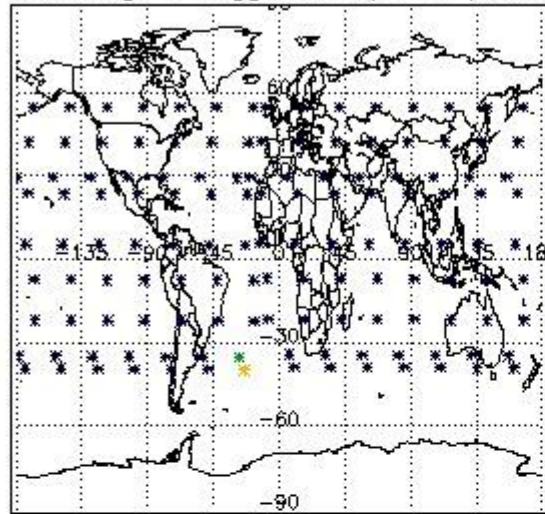
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

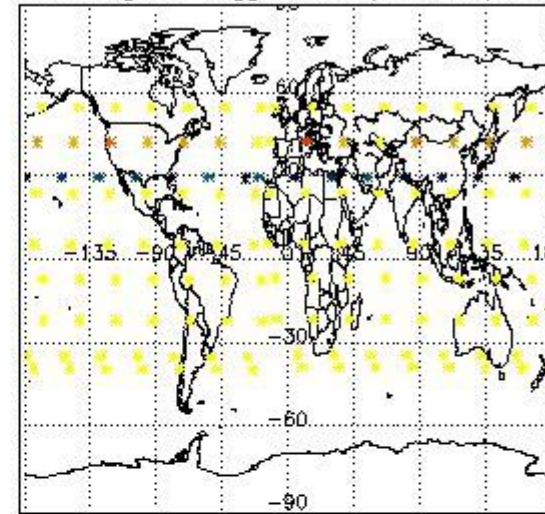


3.2 Plot quality information per product (world map)

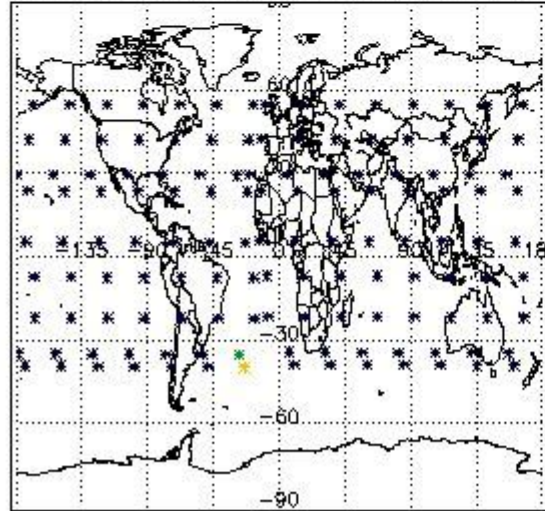
Percentage of flagged data per O3 profile



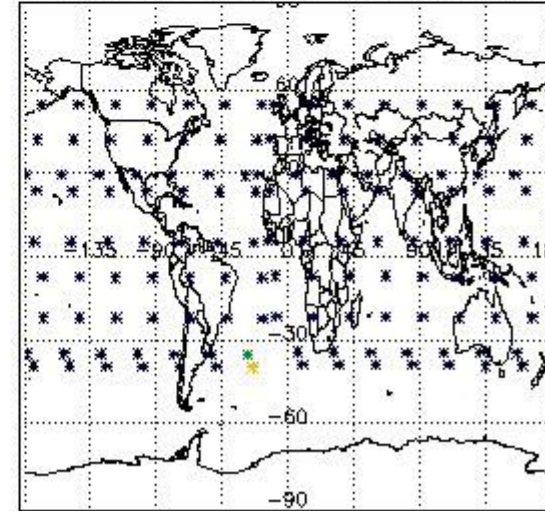
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

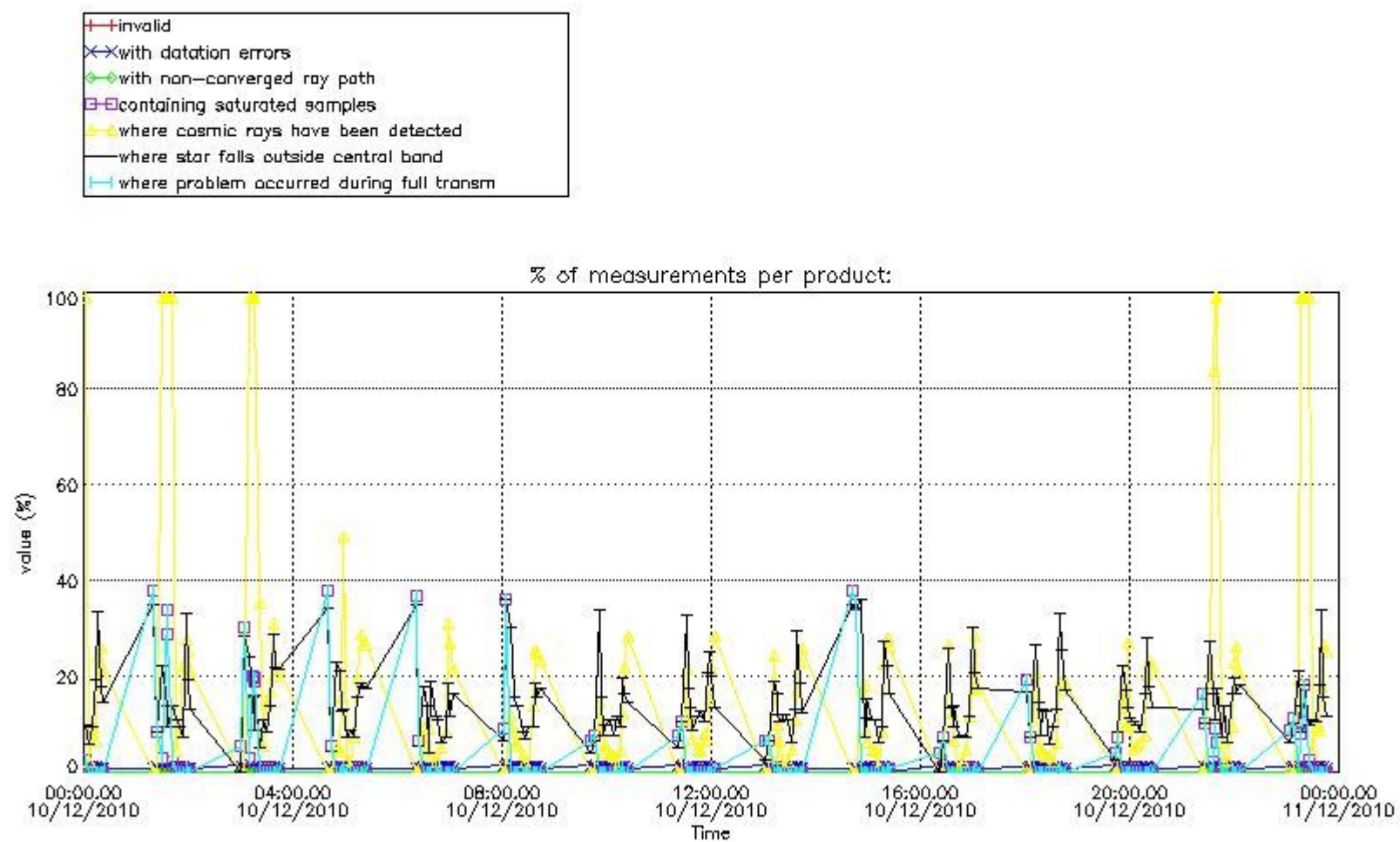


4. Level 1 quality information per product

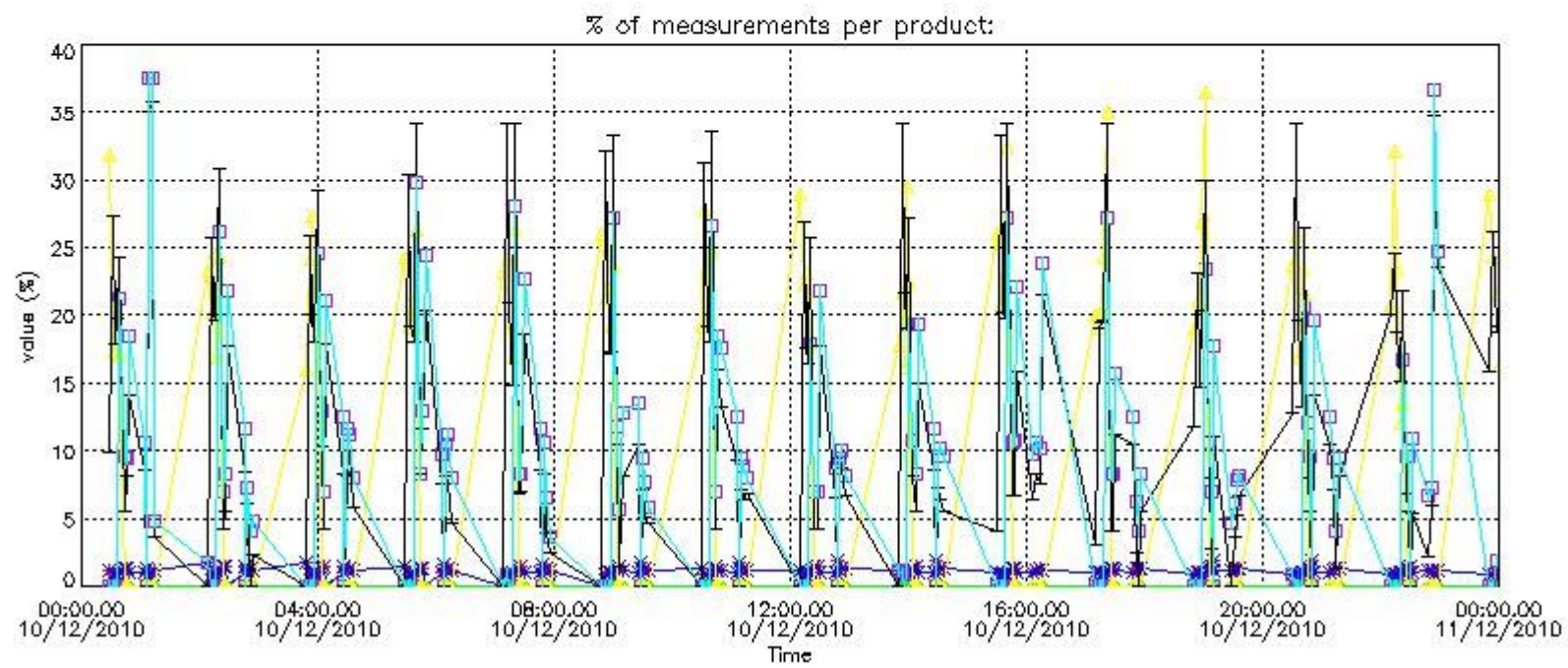
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

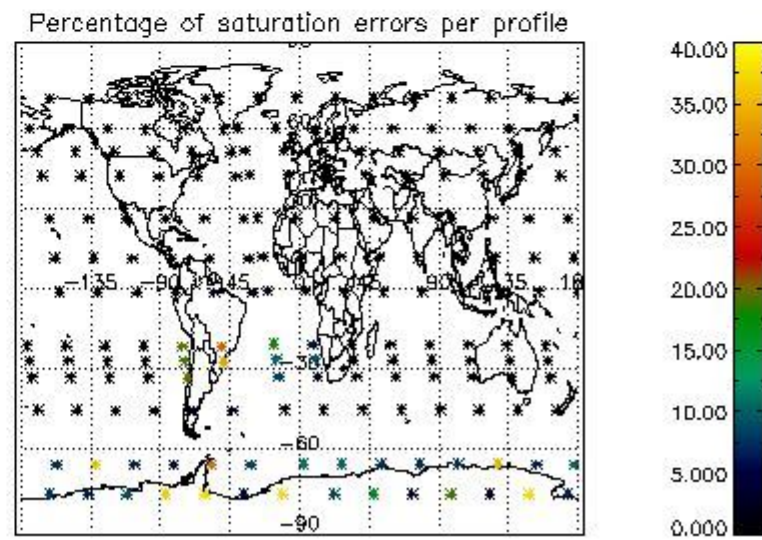
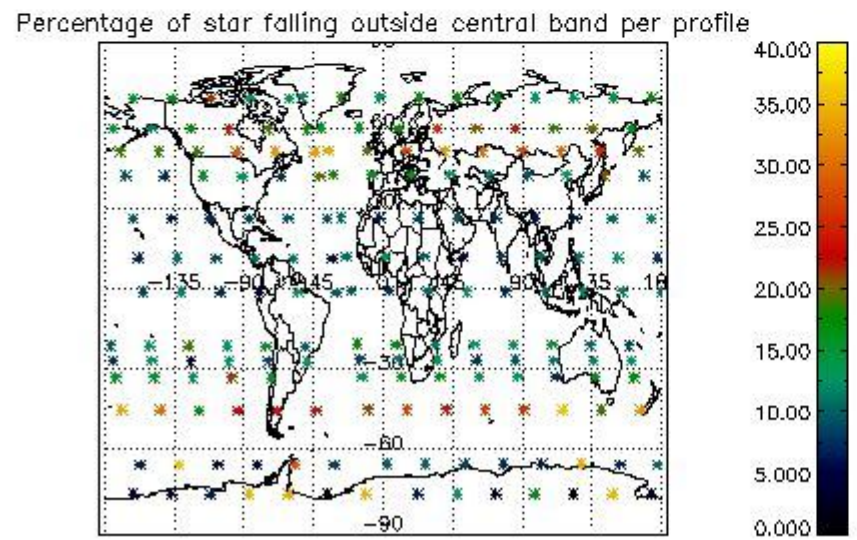
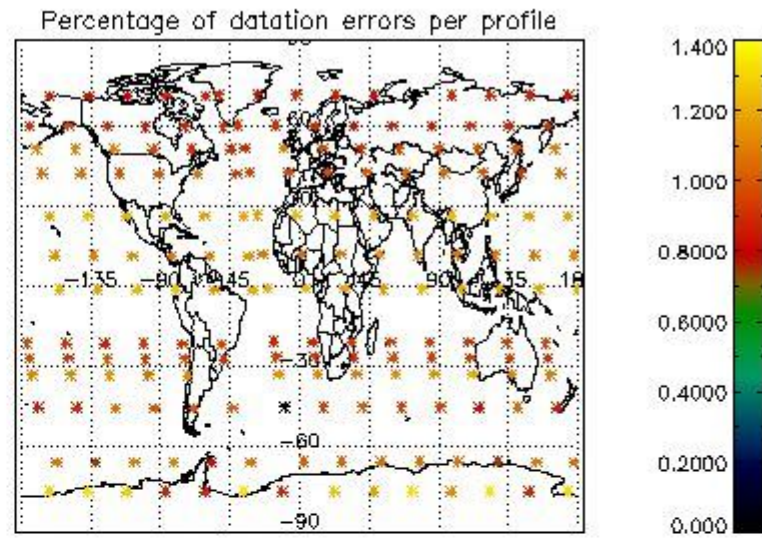
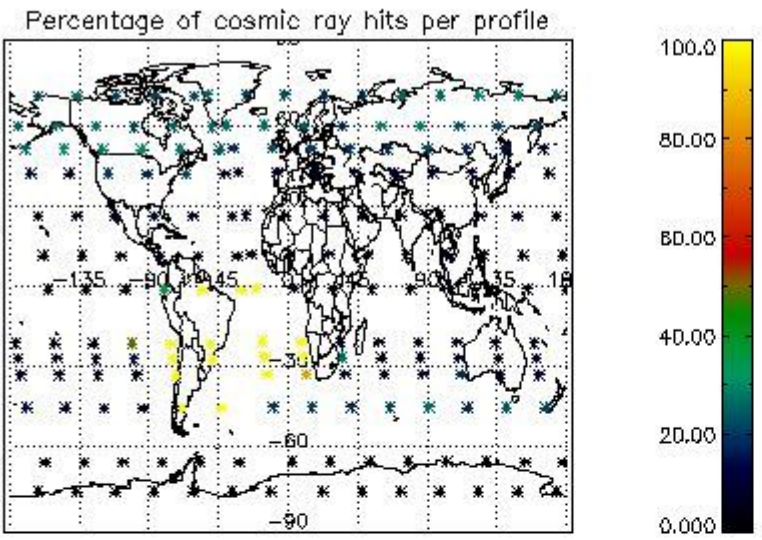


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

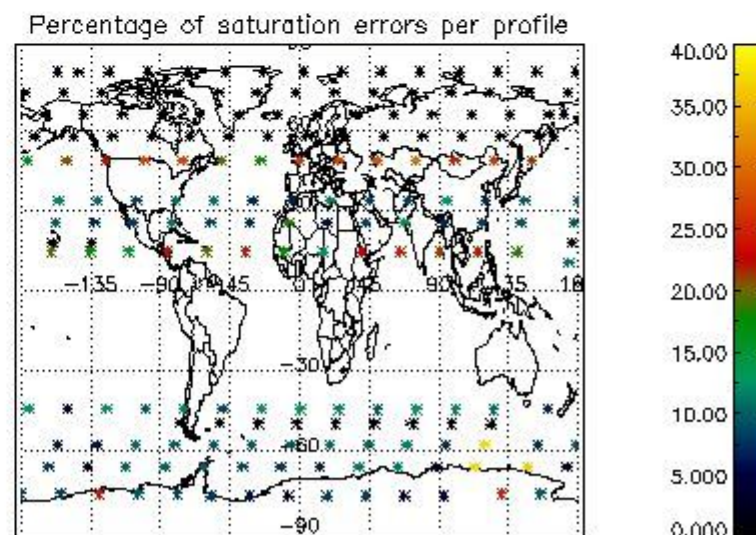
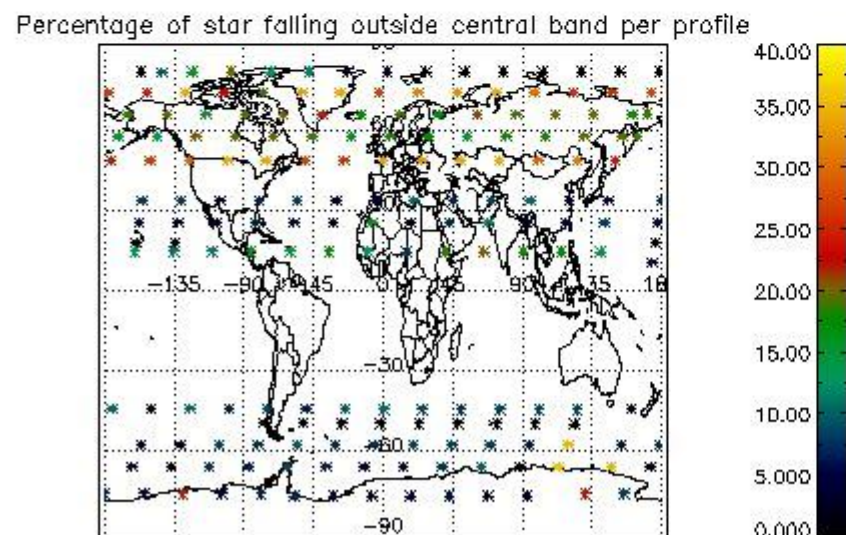
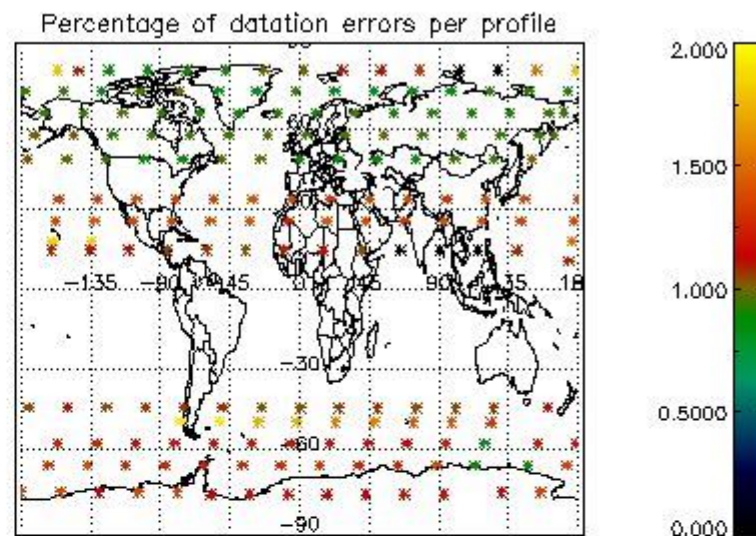
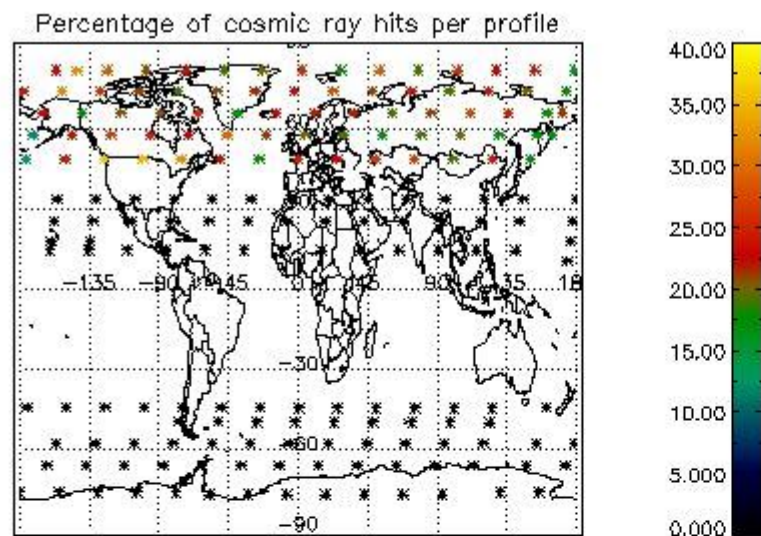


4.2 Plot quality information per product coming from level 1b processing (world map)

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

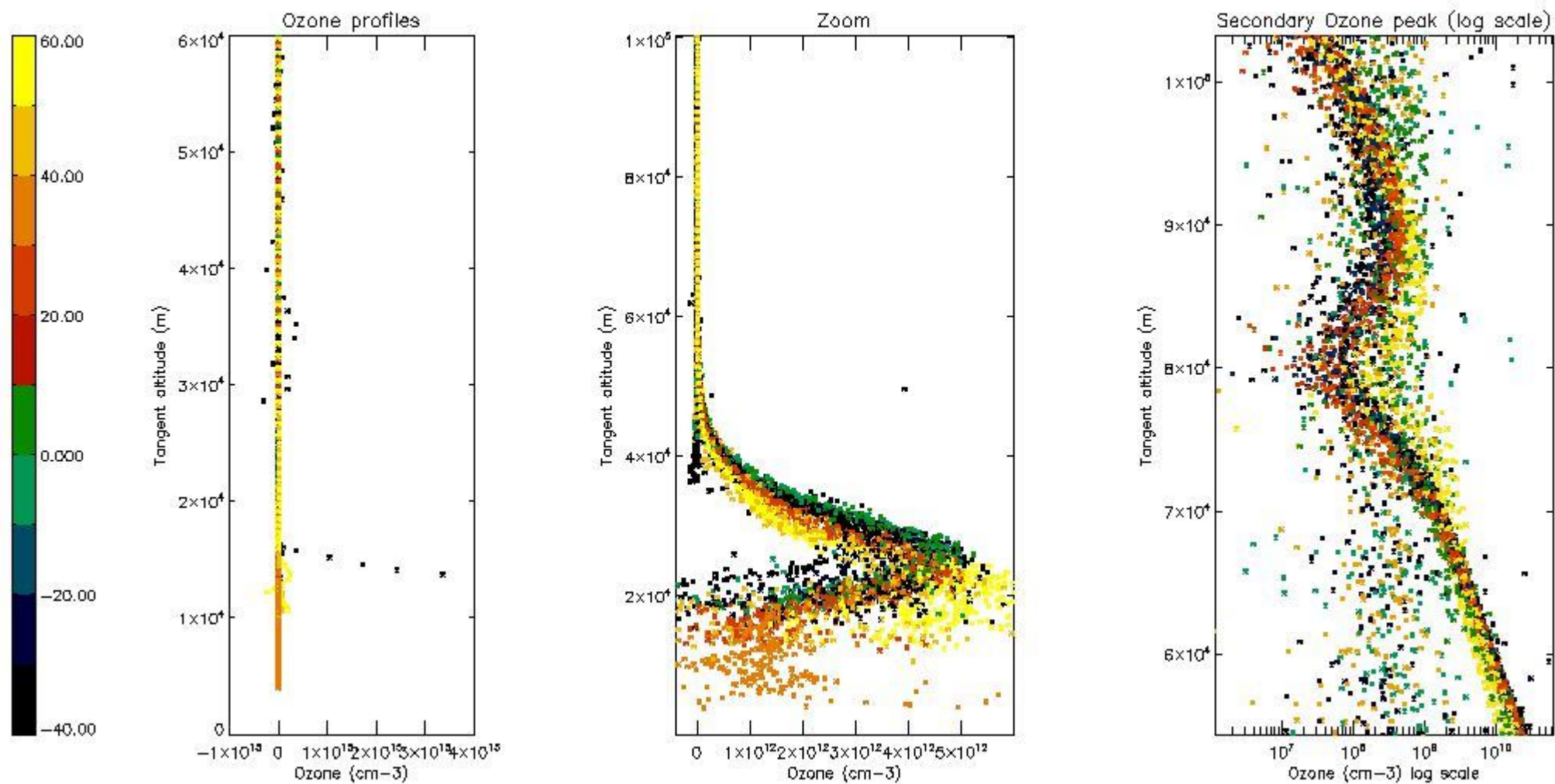
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	18

STD < 10	14
STD < 5	10

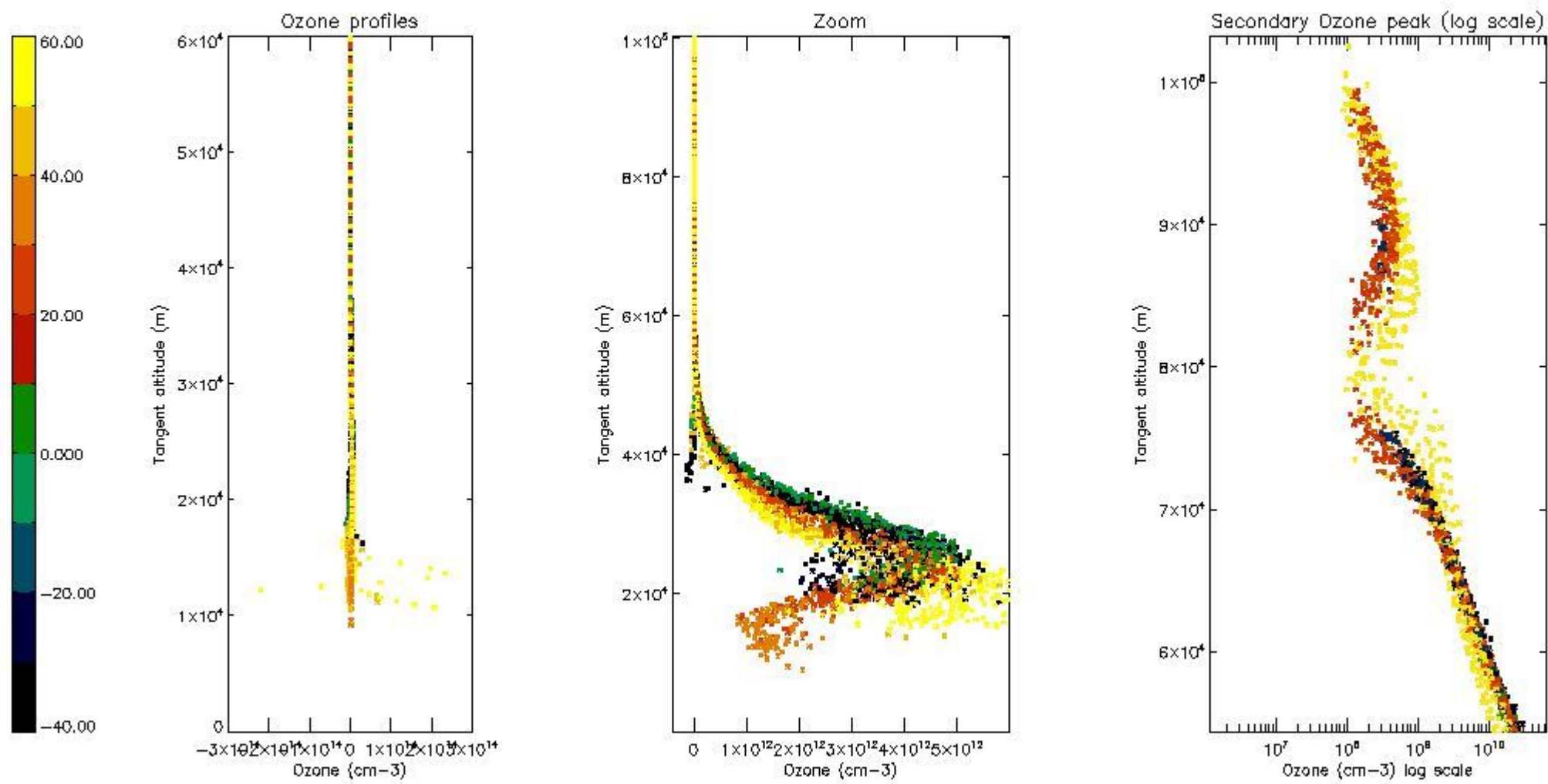
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



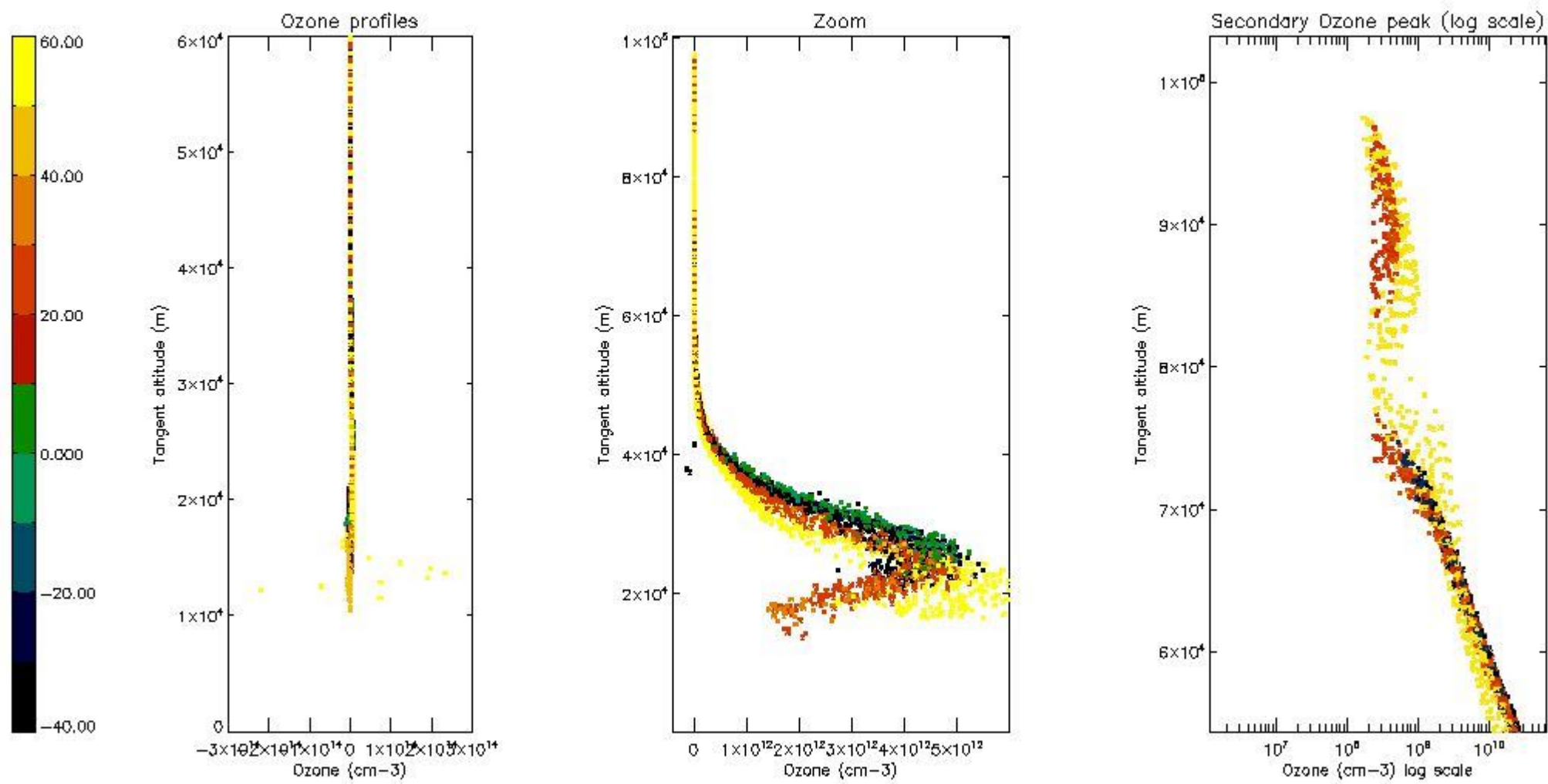
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



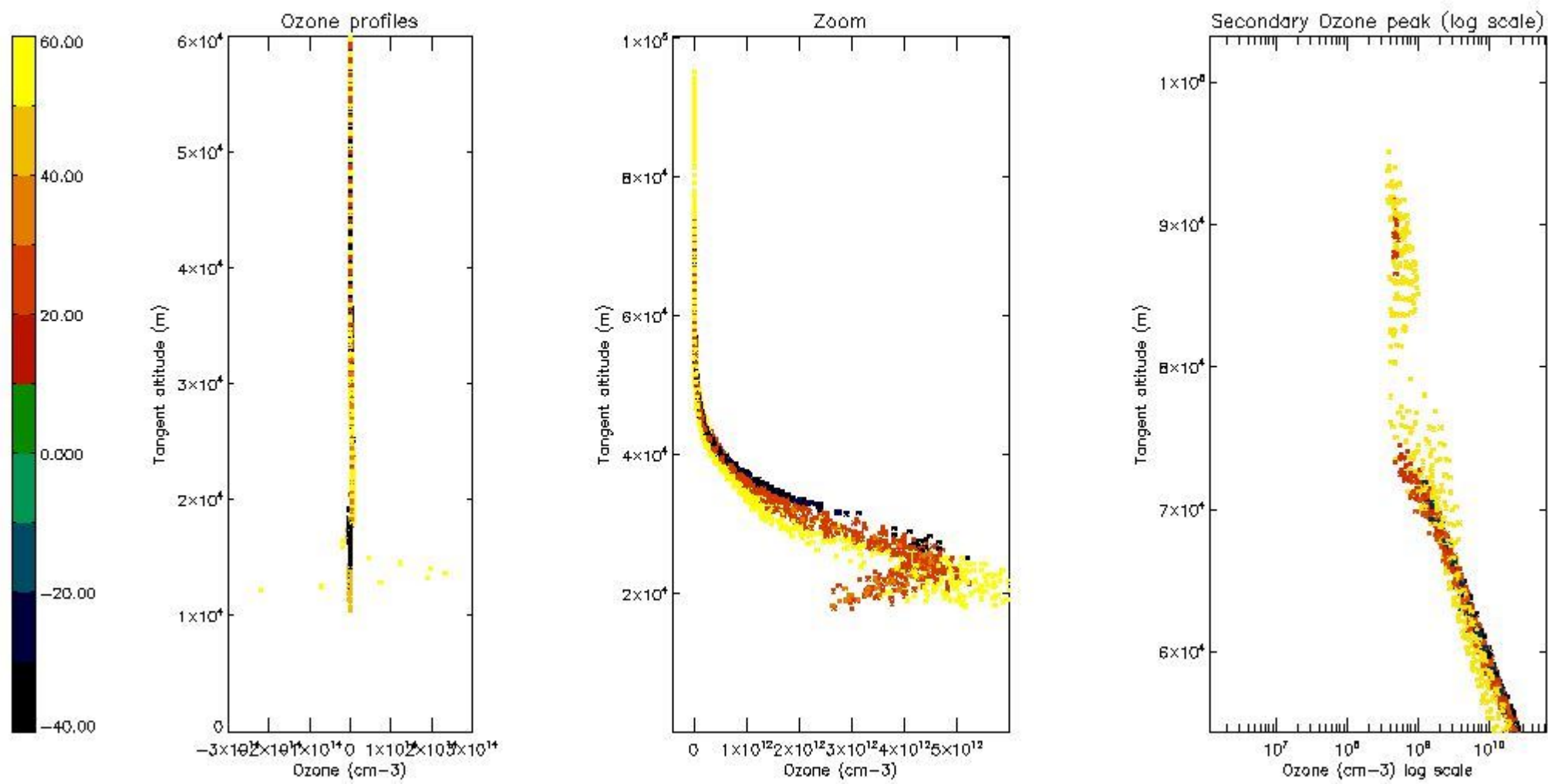
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



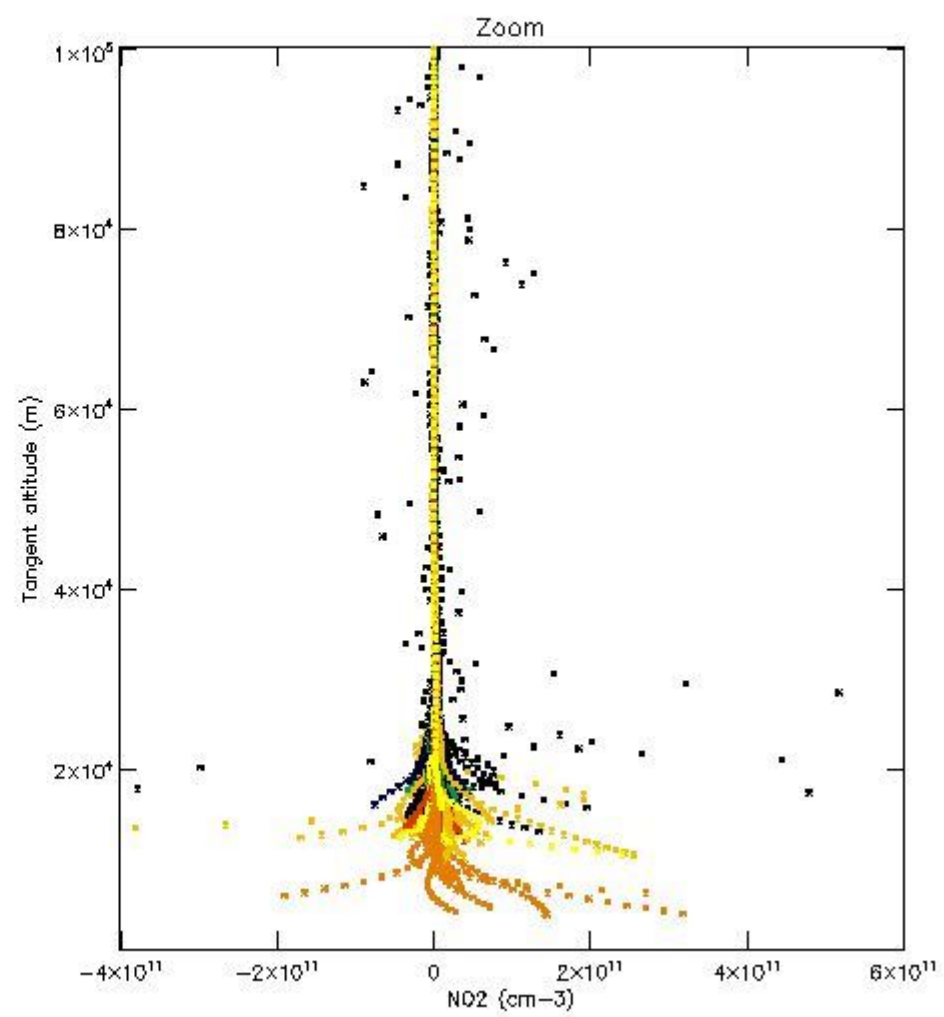
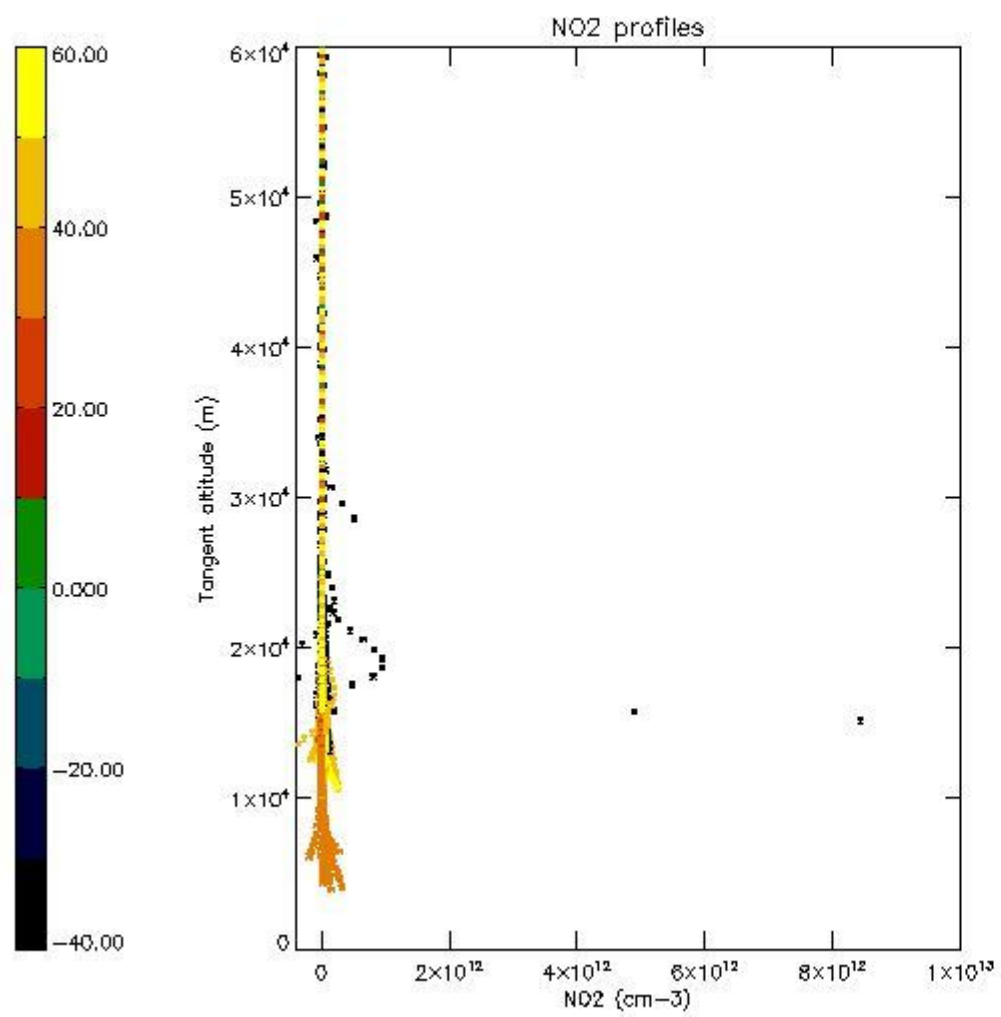
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



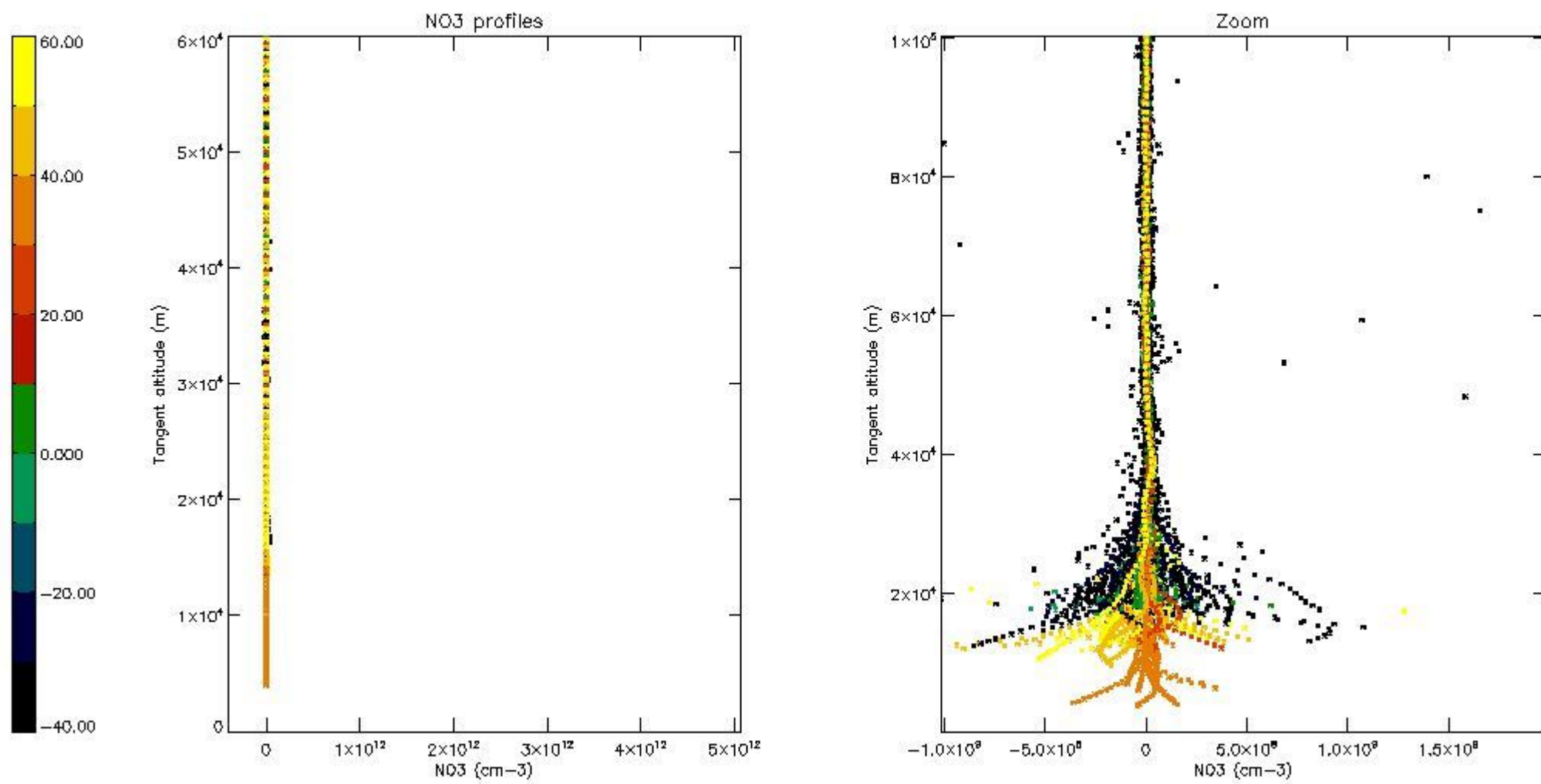
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



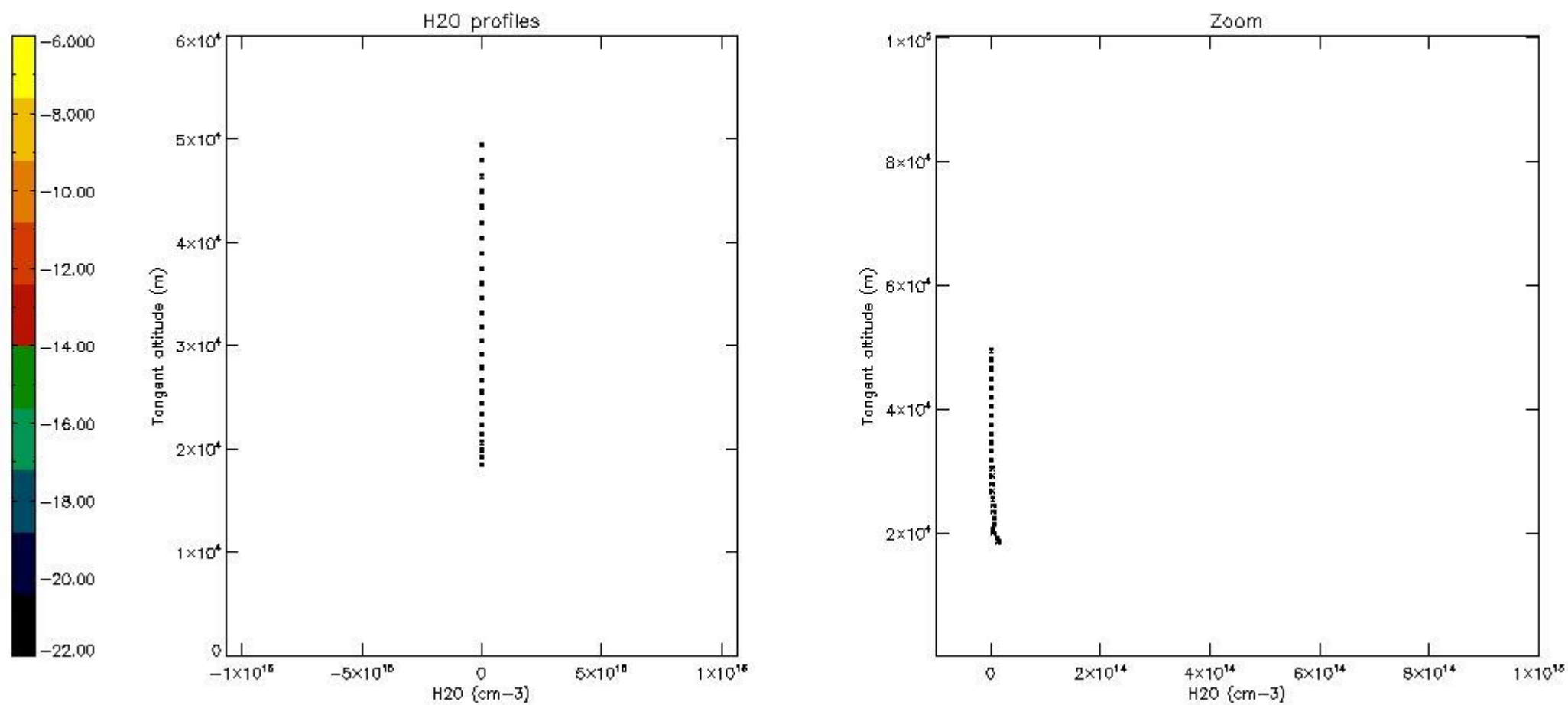
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

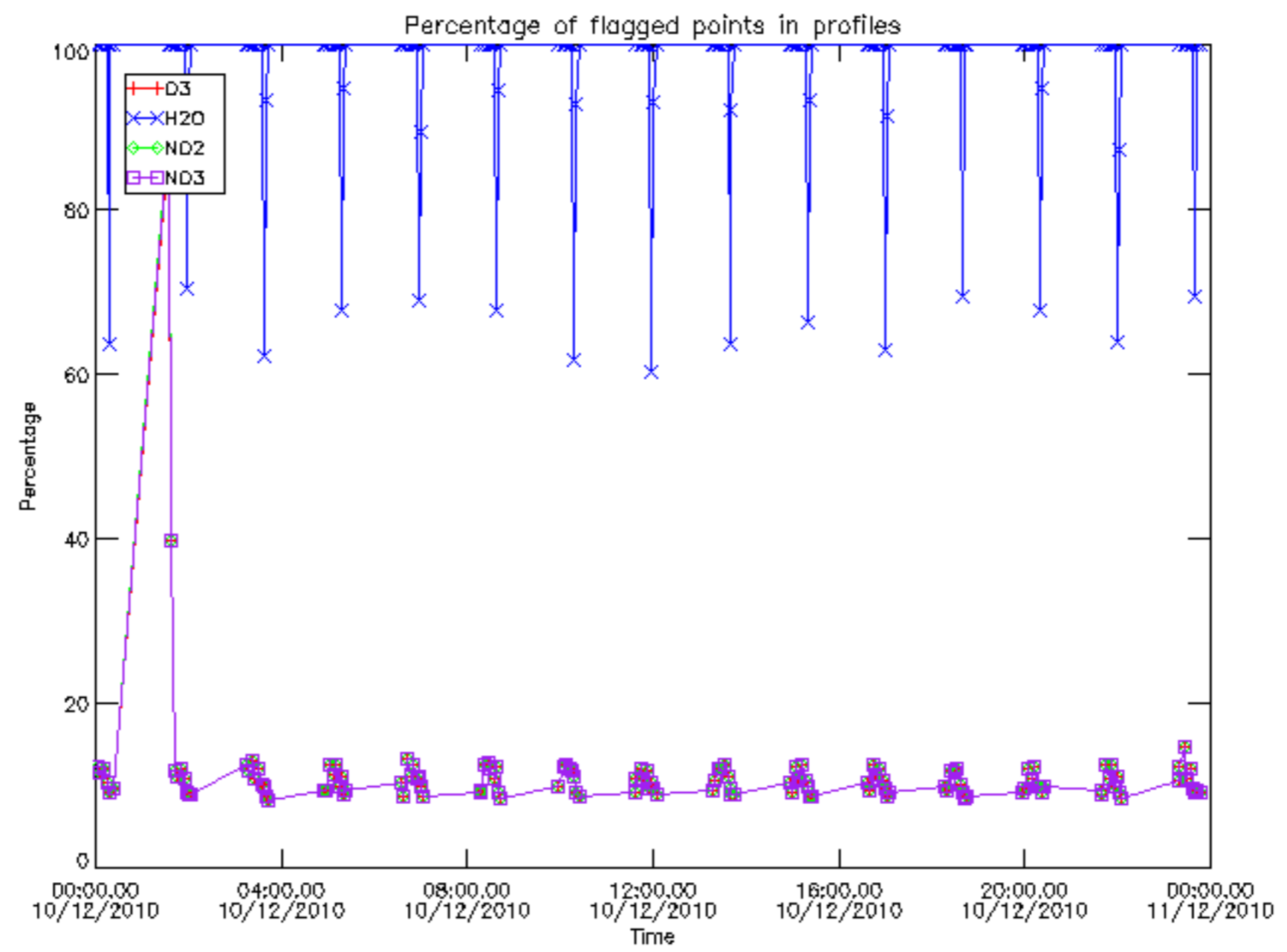
The colorbar represents the latitude.



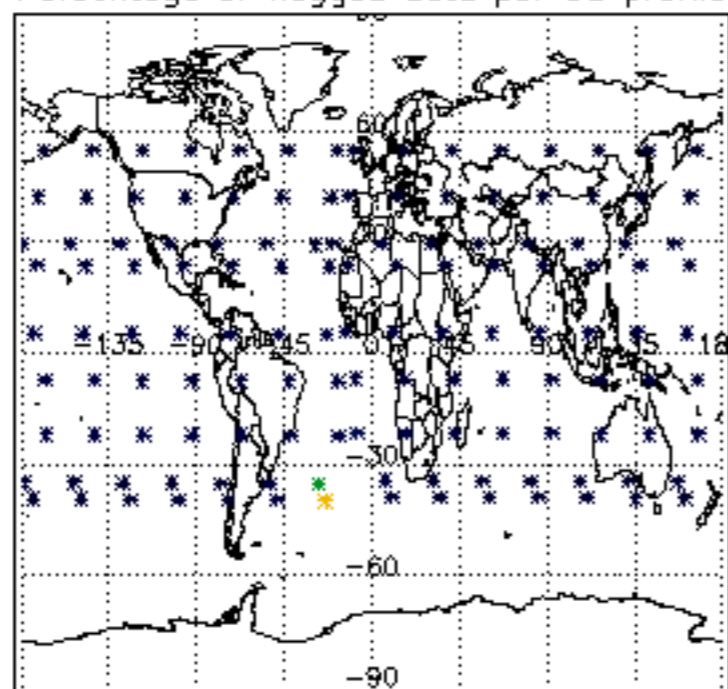
6. Auxiliary Data Files used for the production reported in section 2

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.

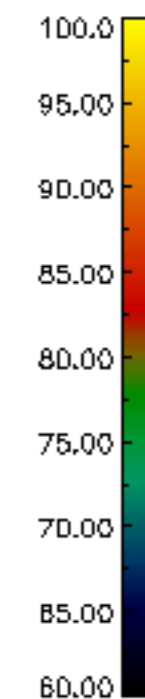
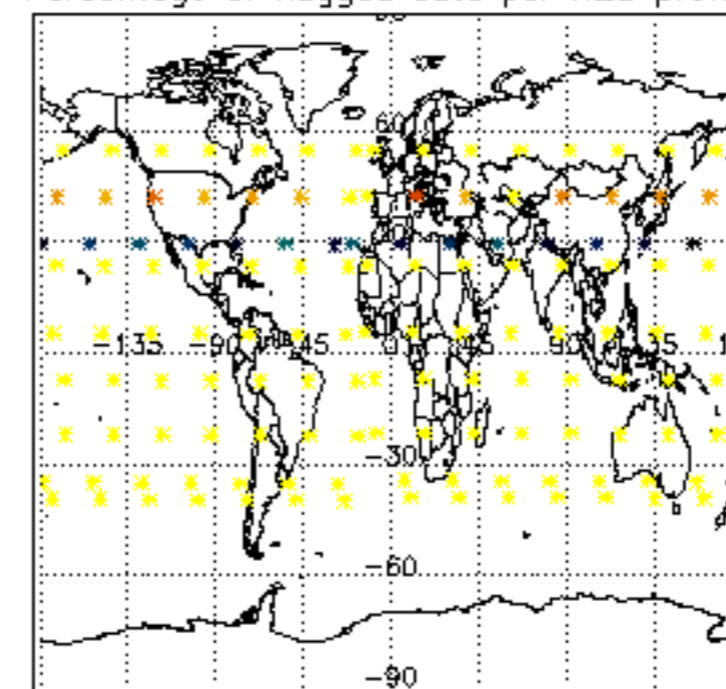
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	10-DEC-2010 00:02:03
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	10-DEC-2010 00:02:03
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	10-DEC-2010 00:02:03



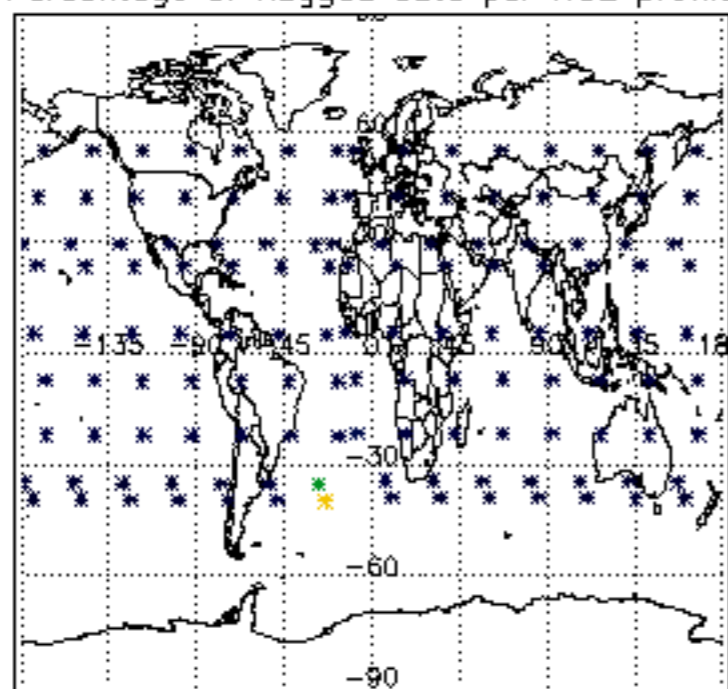
Percentage of flagged data per D3 profile



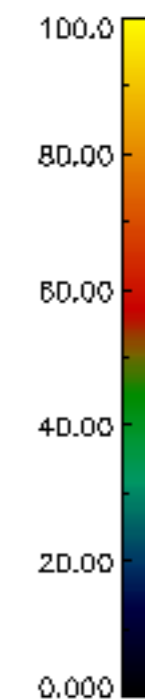
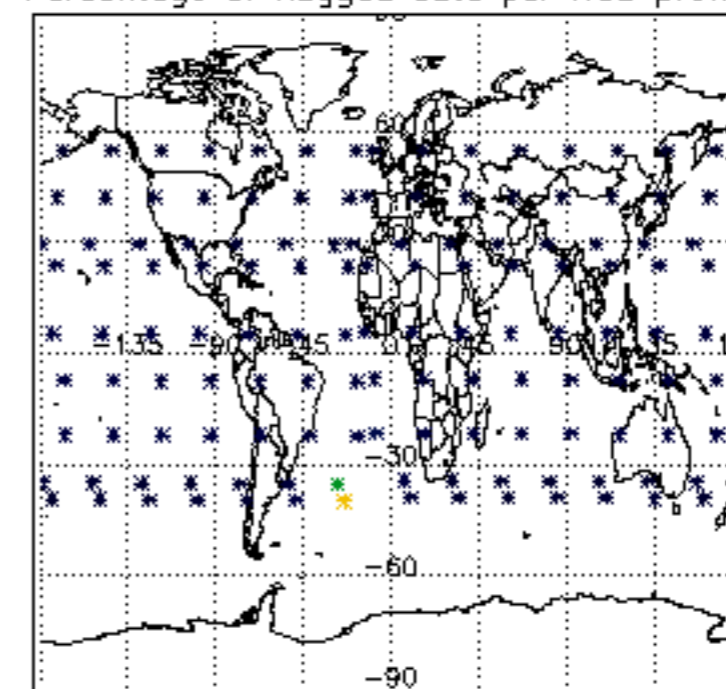
Percentage of flagged data per H2O profile

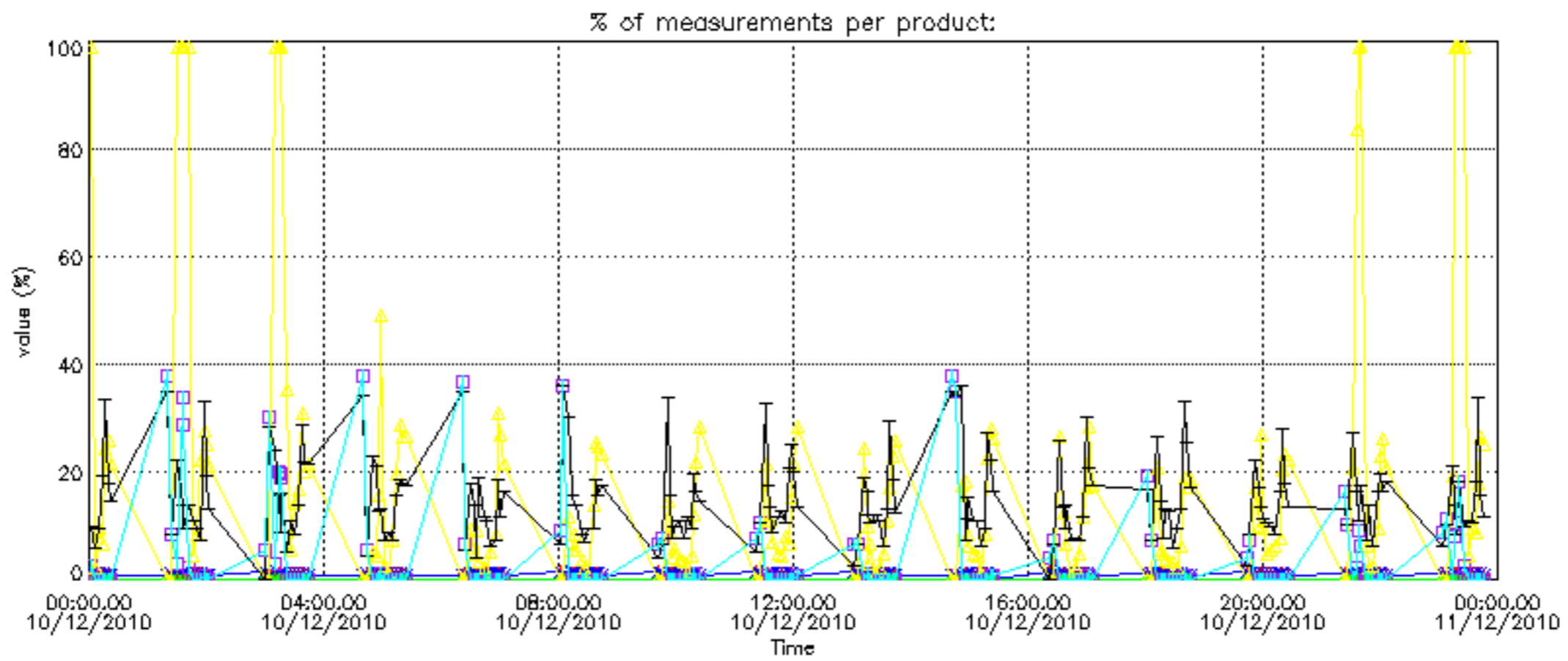


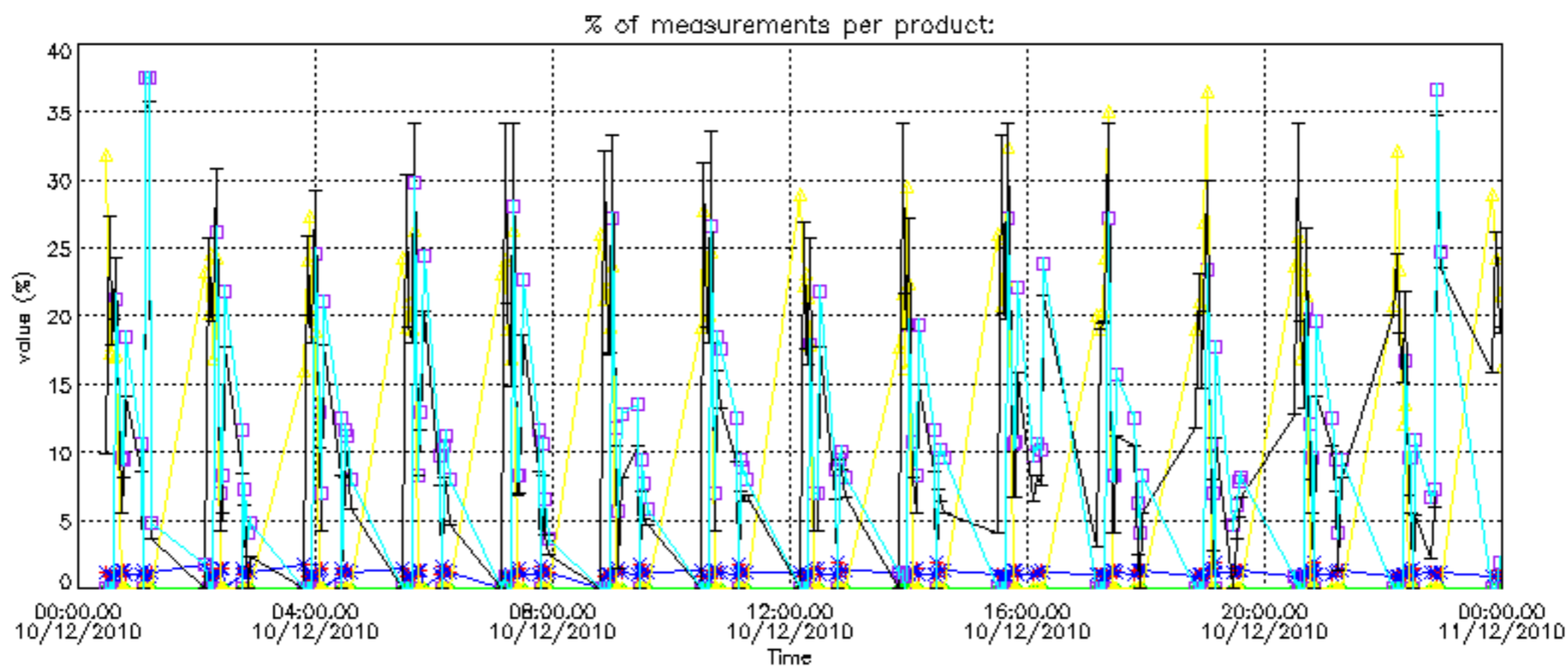
Percentage of flagged data per NO2 profile



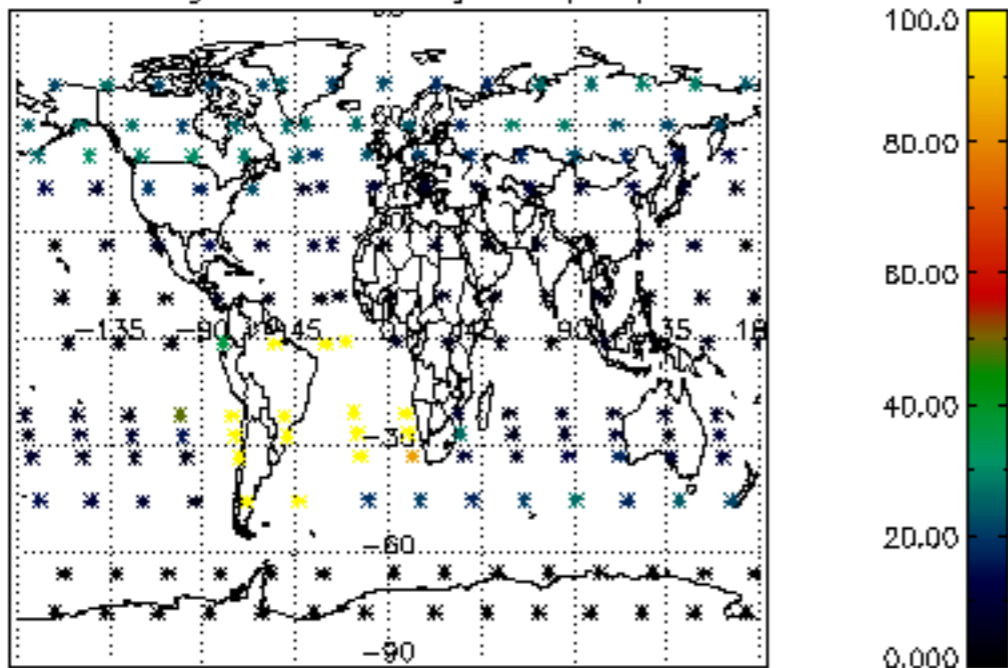
Percentage of flagged data per NO3 profile



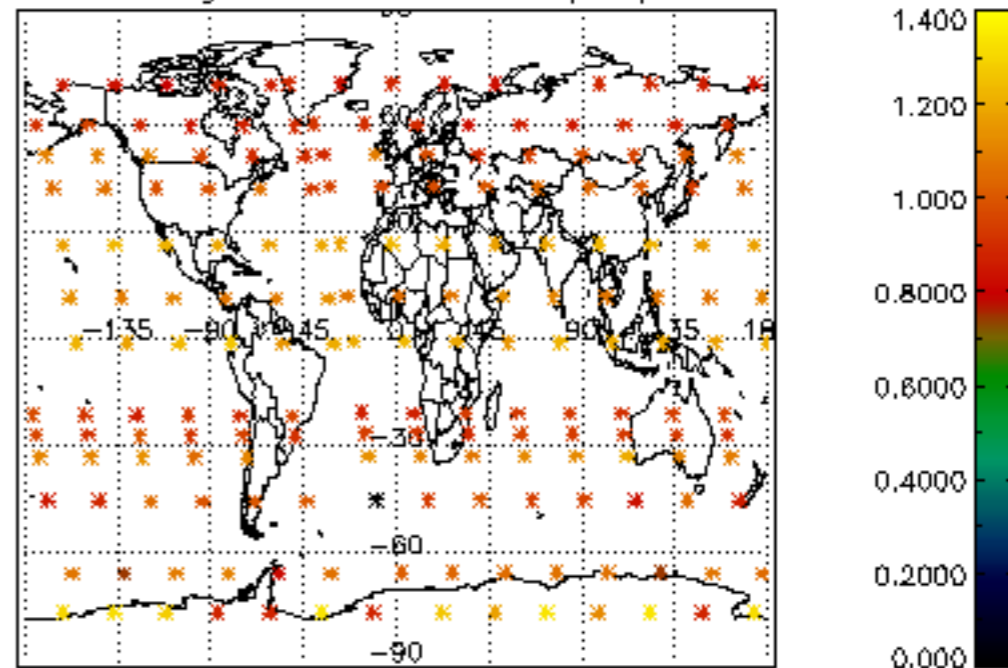




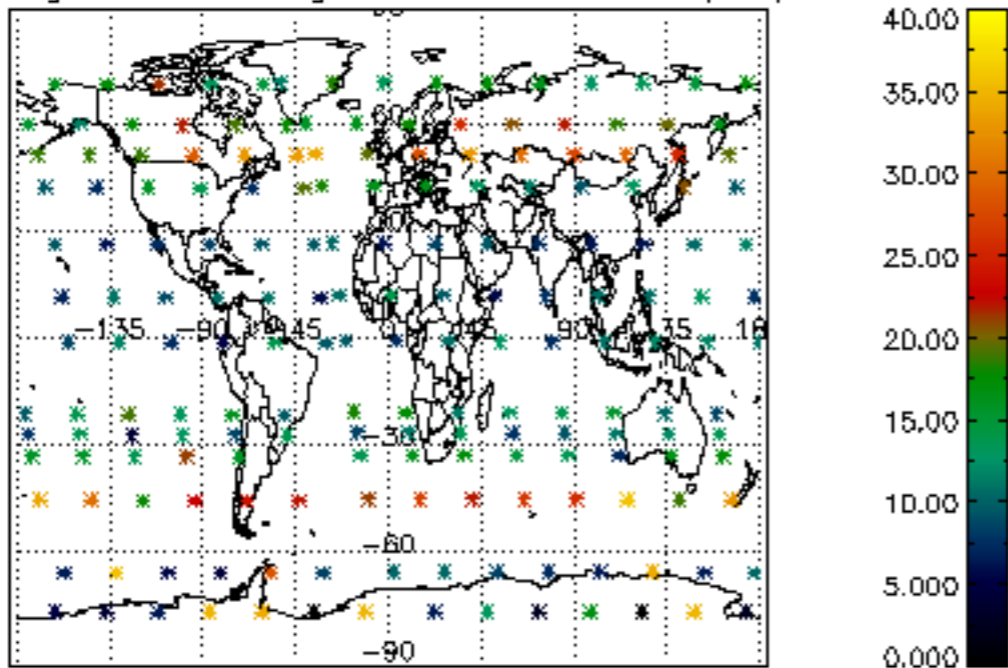
Percentage of cosmic ray hits per profile



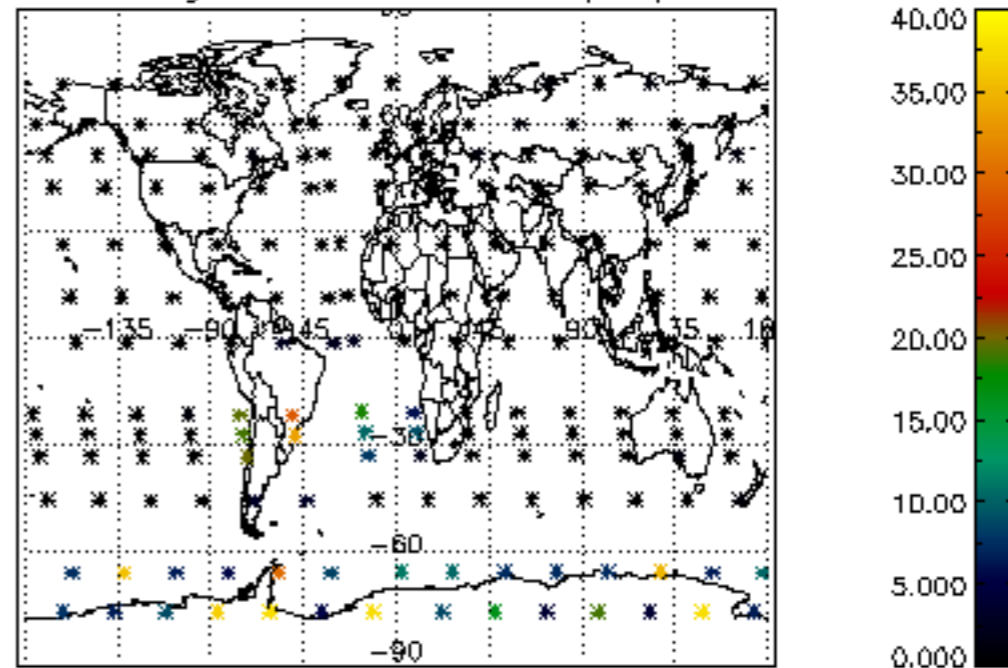
Percentage of datation errors per profile



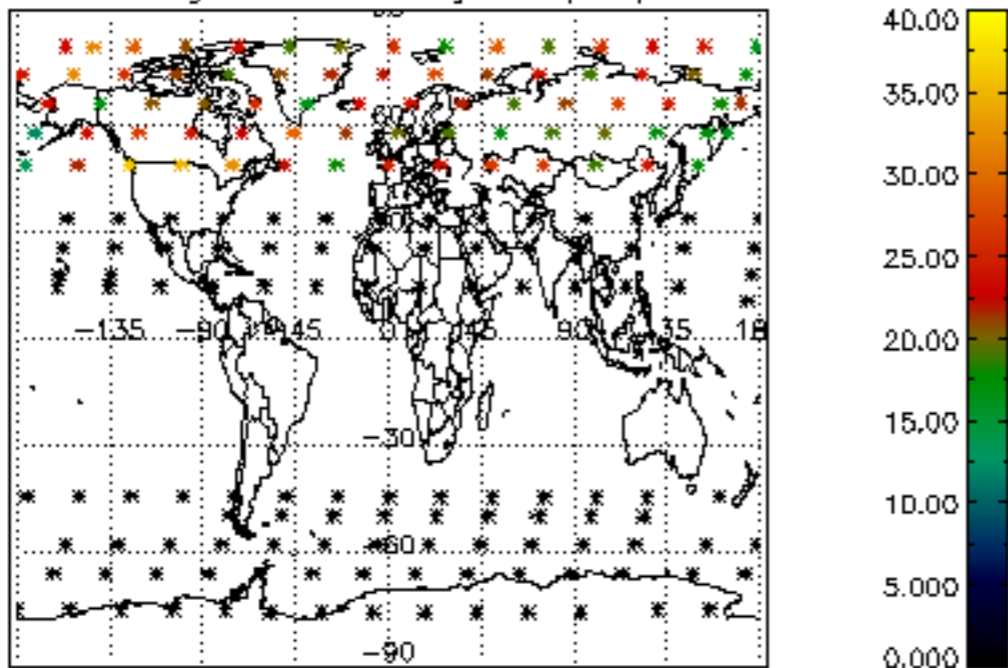
Percentage of star falling outside central band per profile



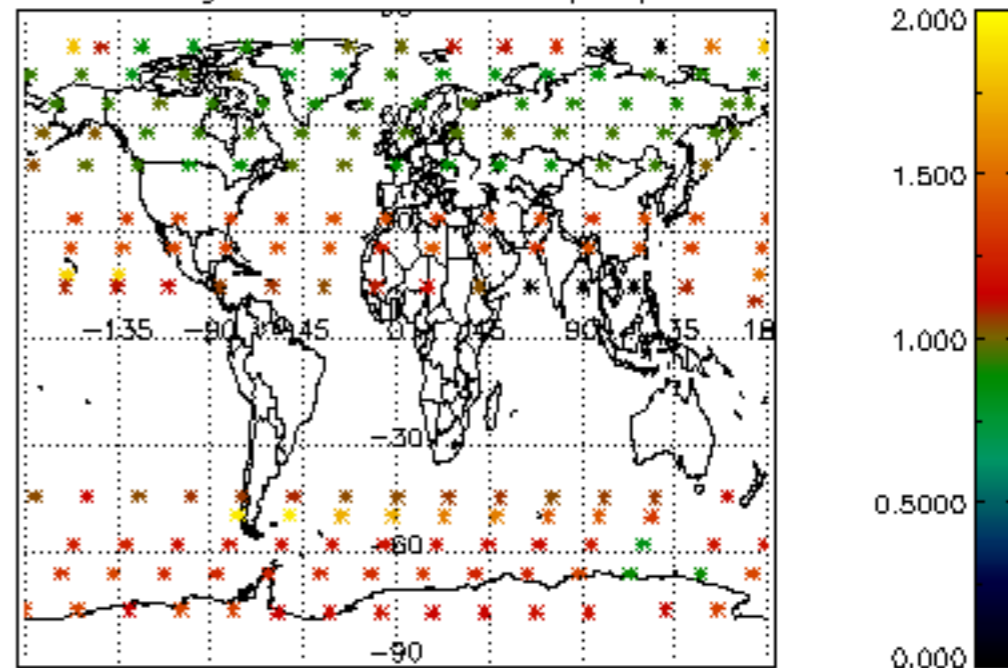
Percentage of saturation errors per profile



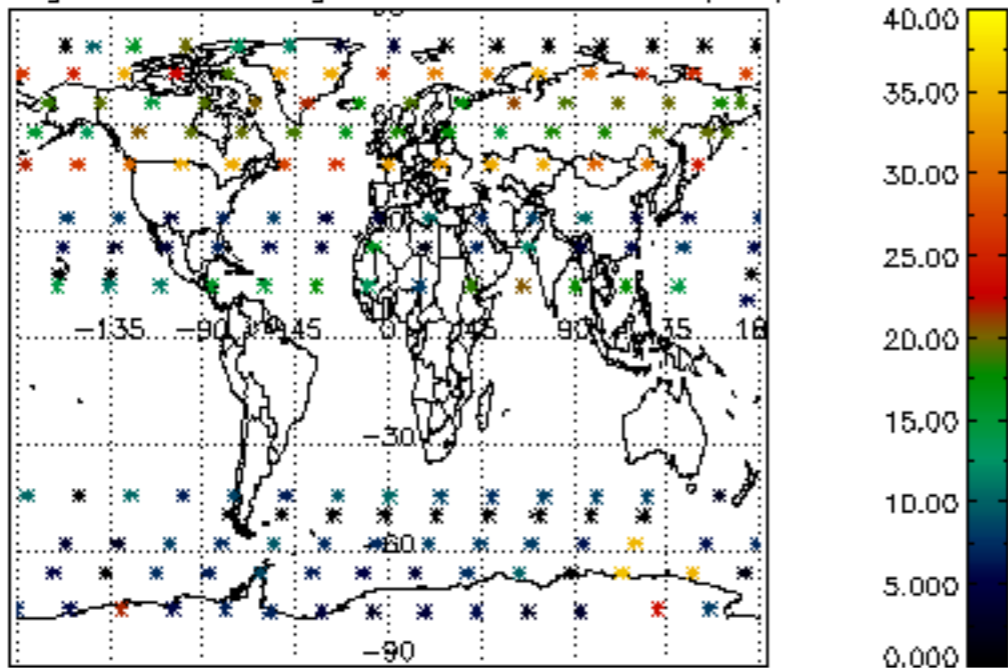
Percentage of cosmic ray hits per profile



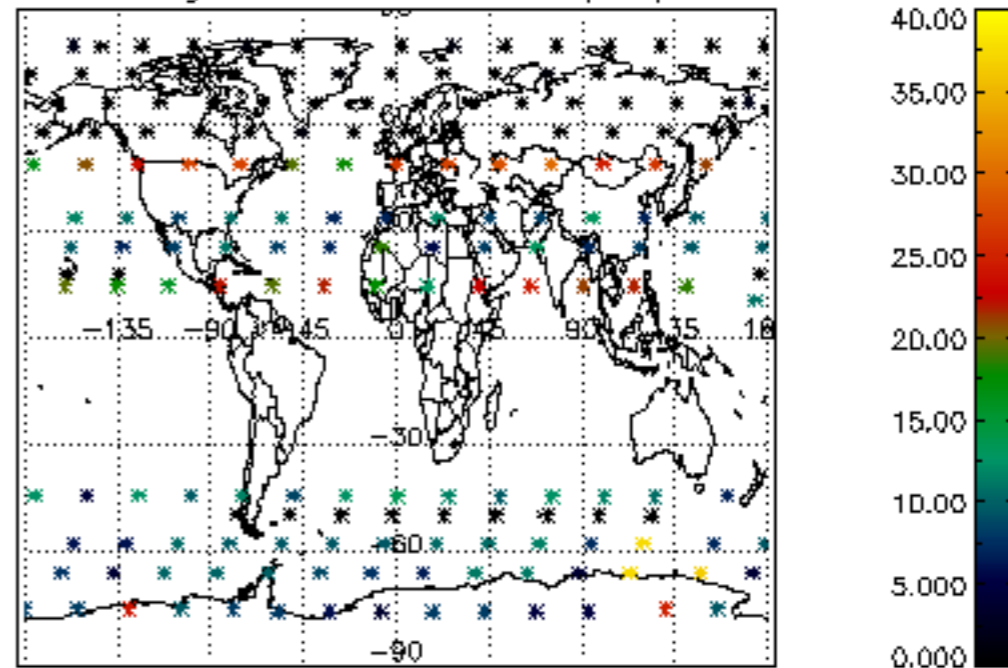
Percentage of datation errors per profile

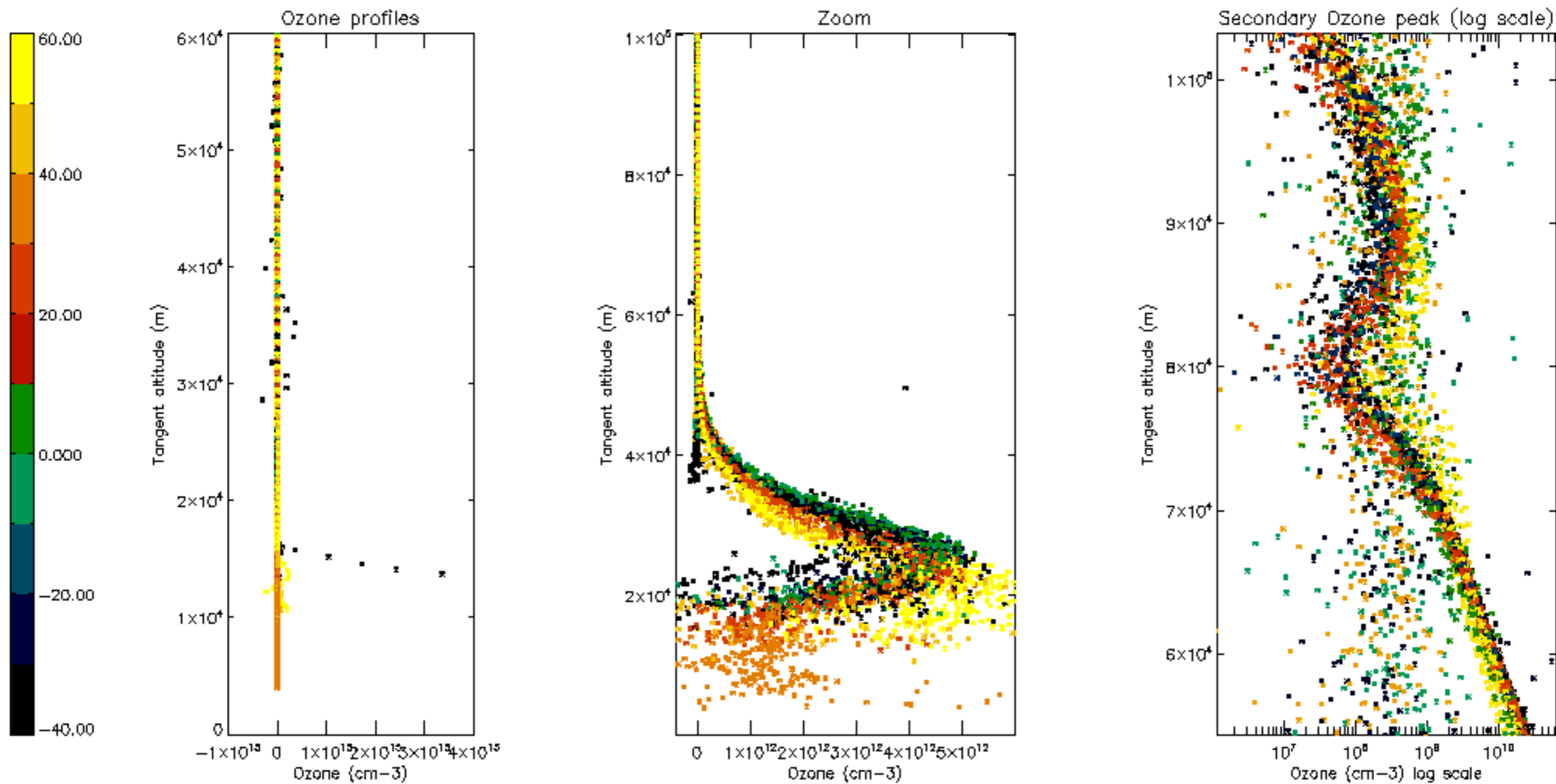


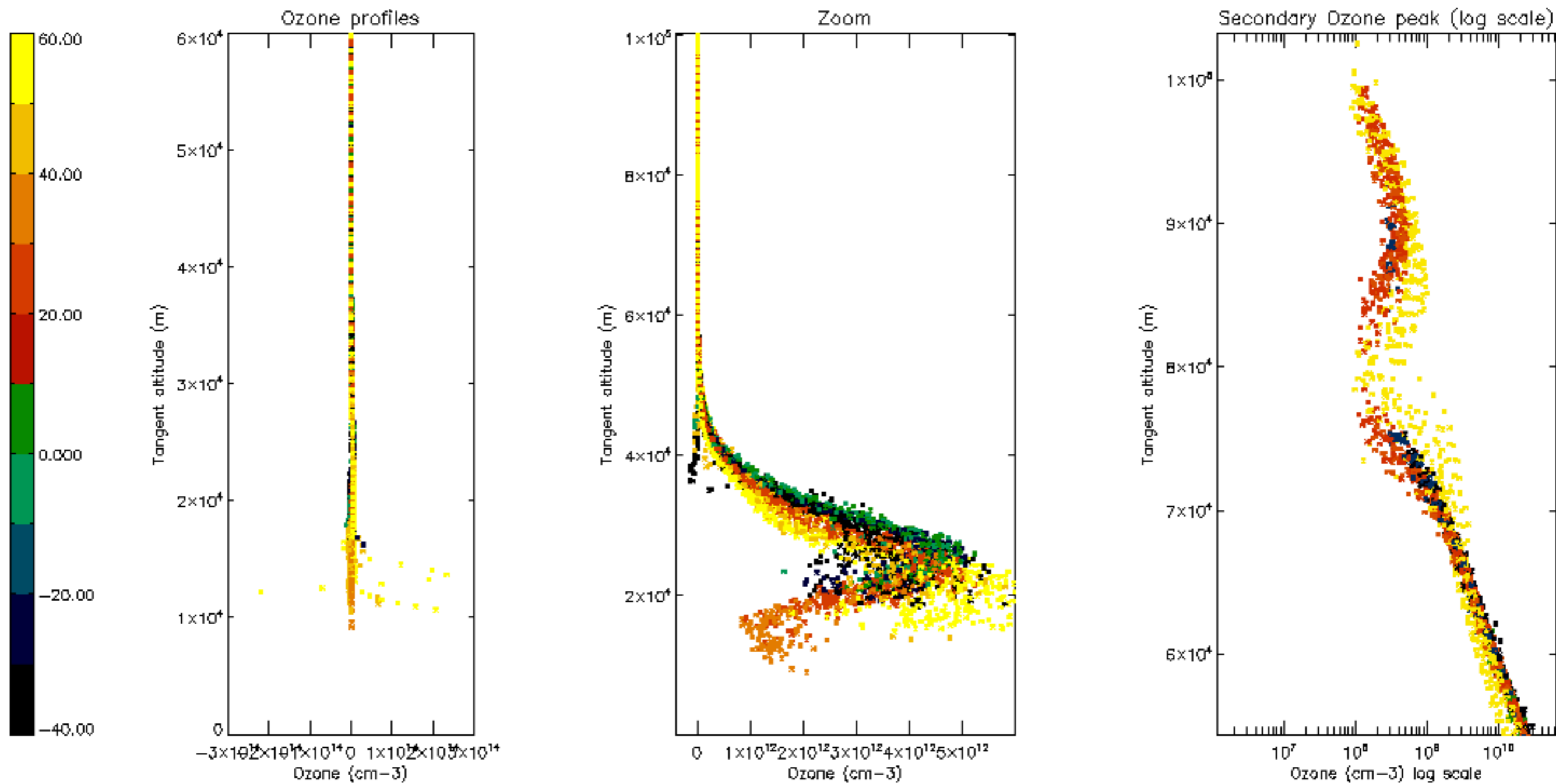
Percentage of star falling outside central band per profile

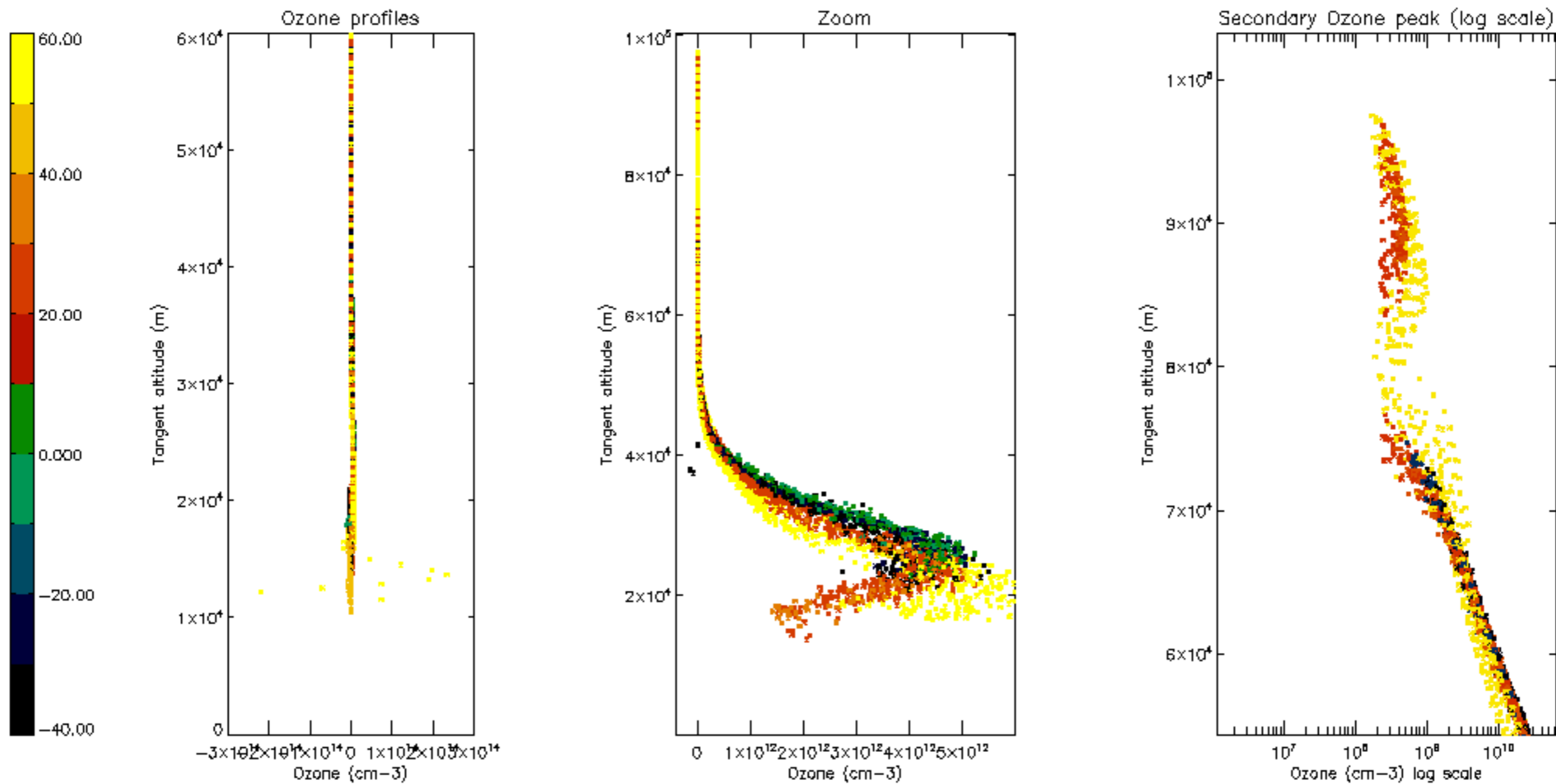


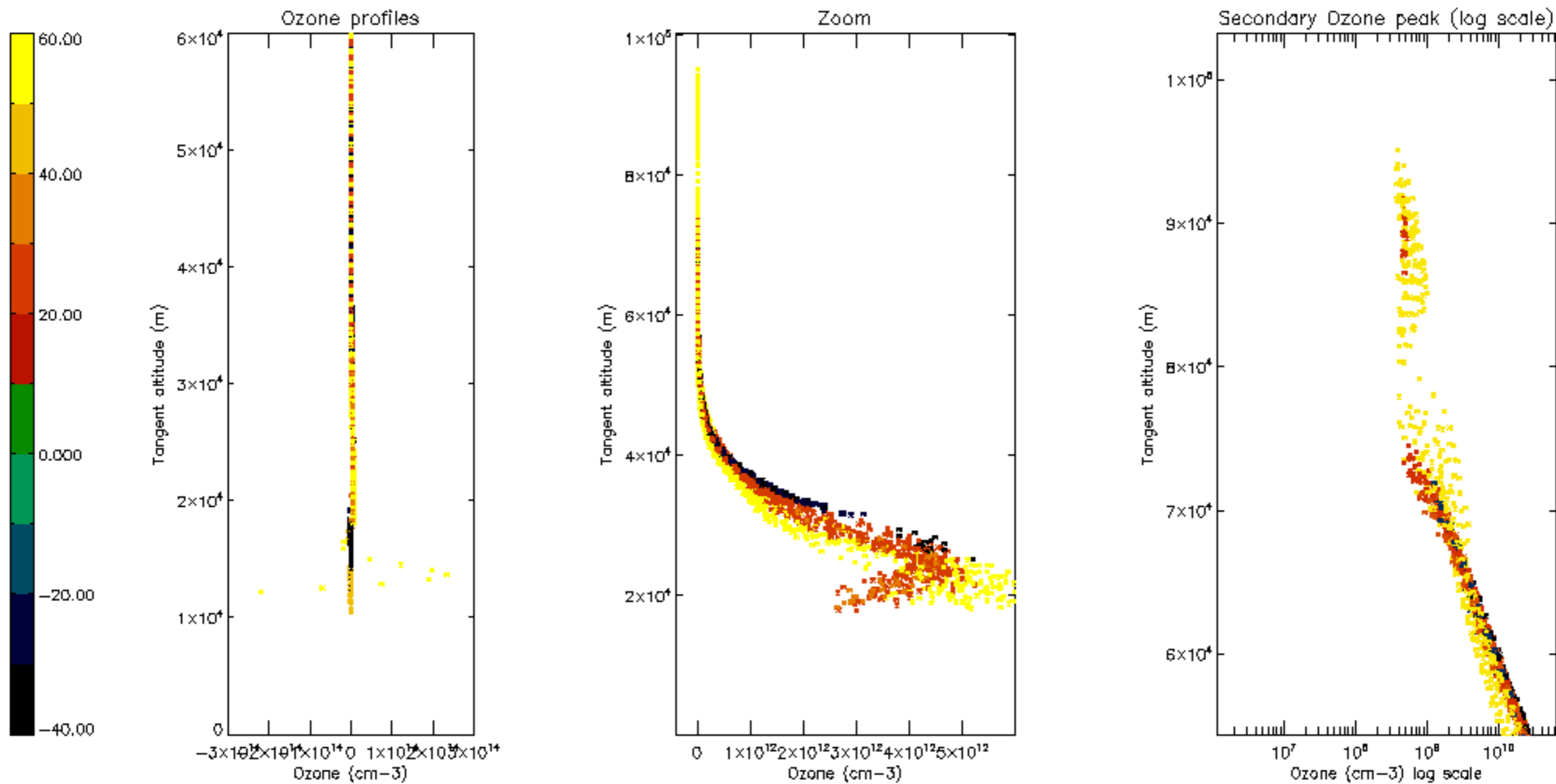
Percentage of saturation errors per profile

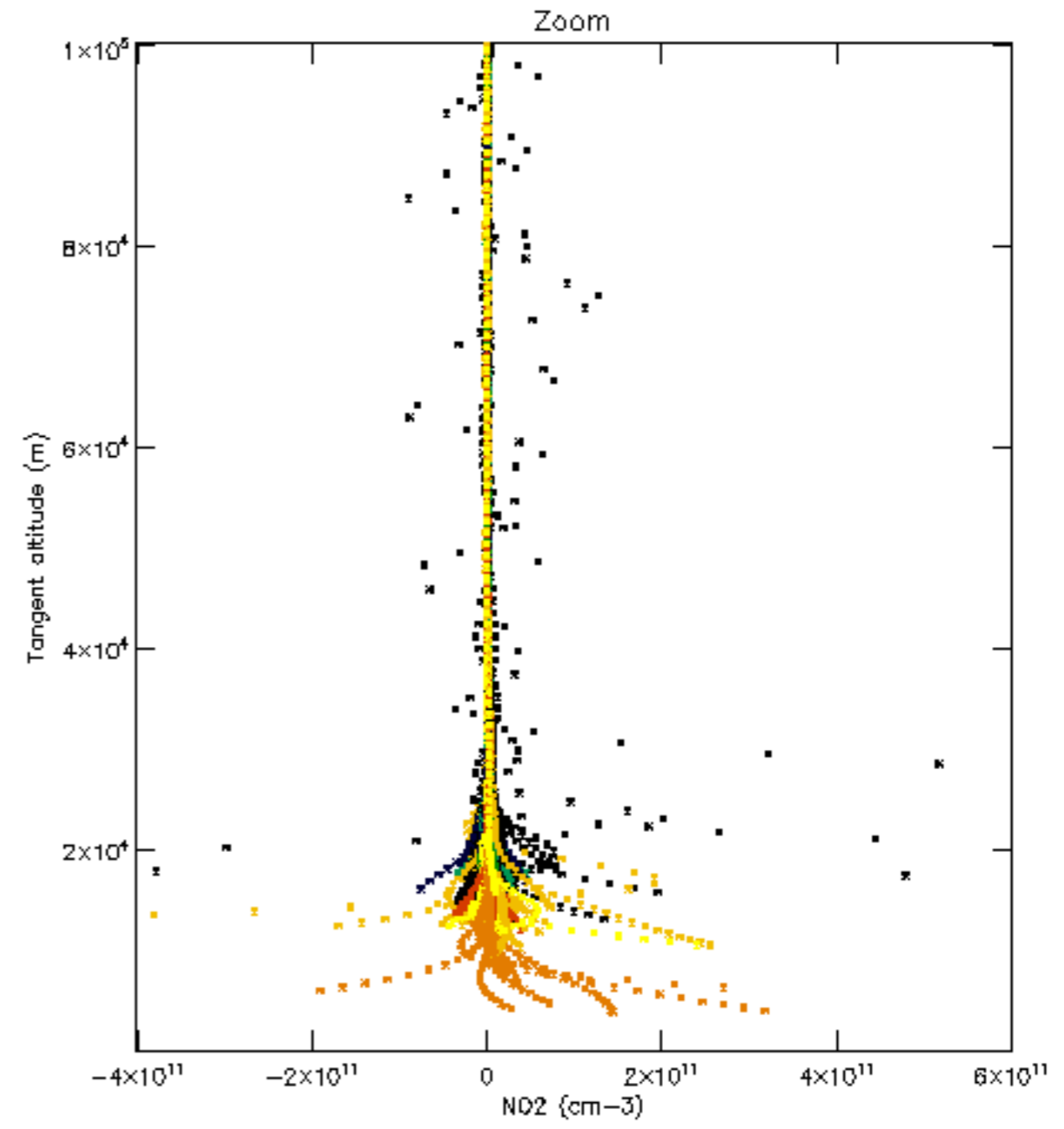
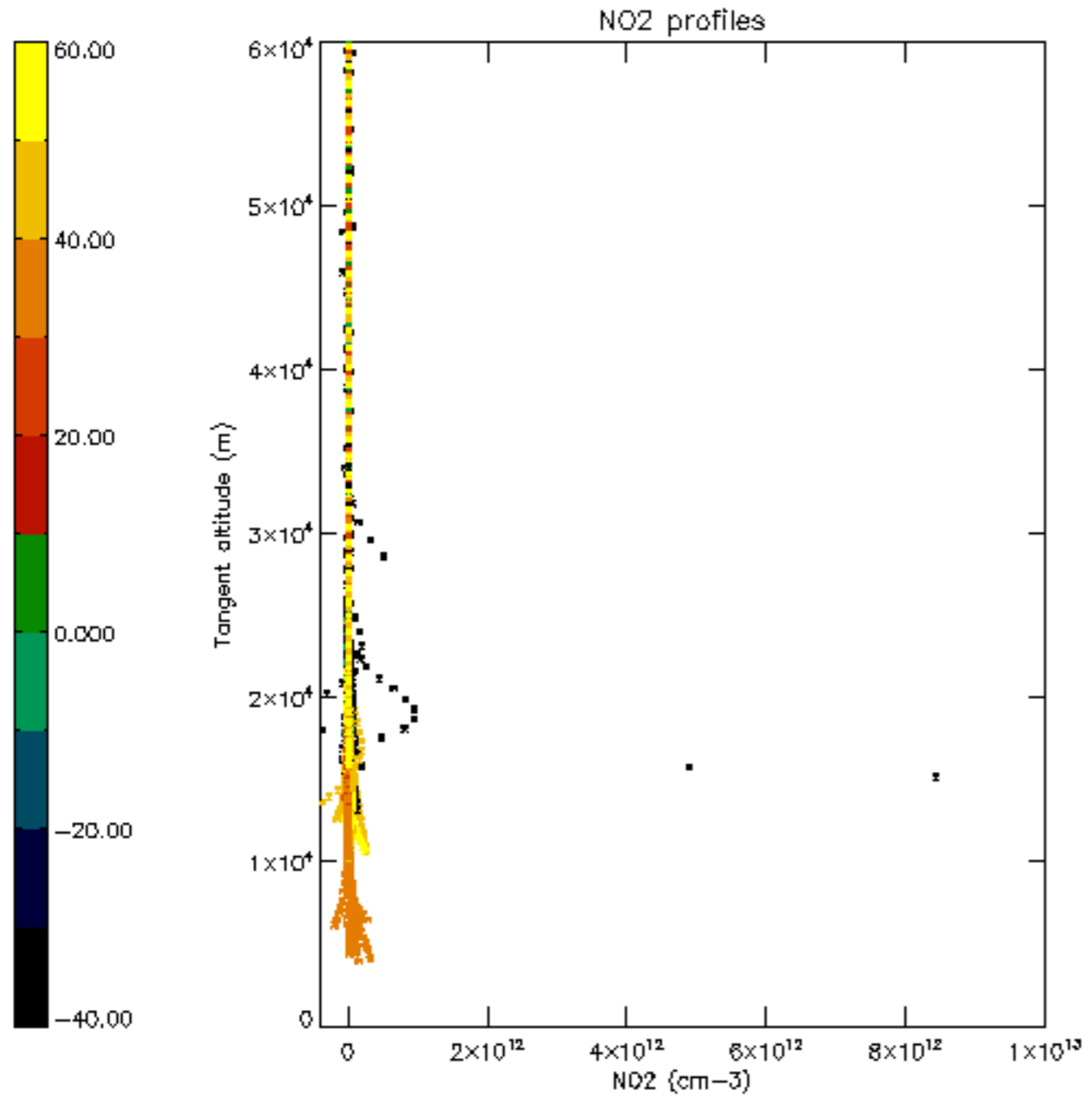


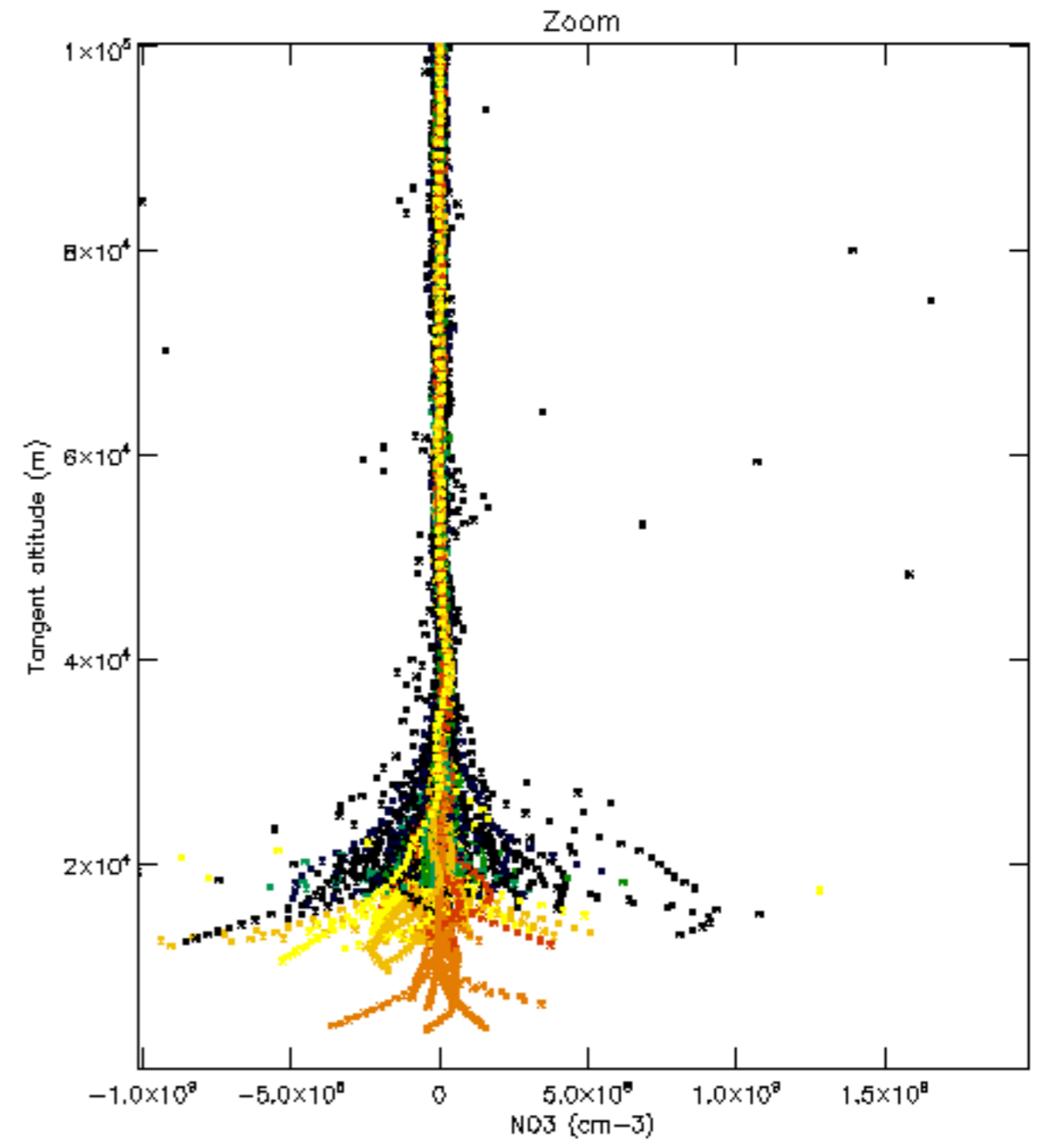
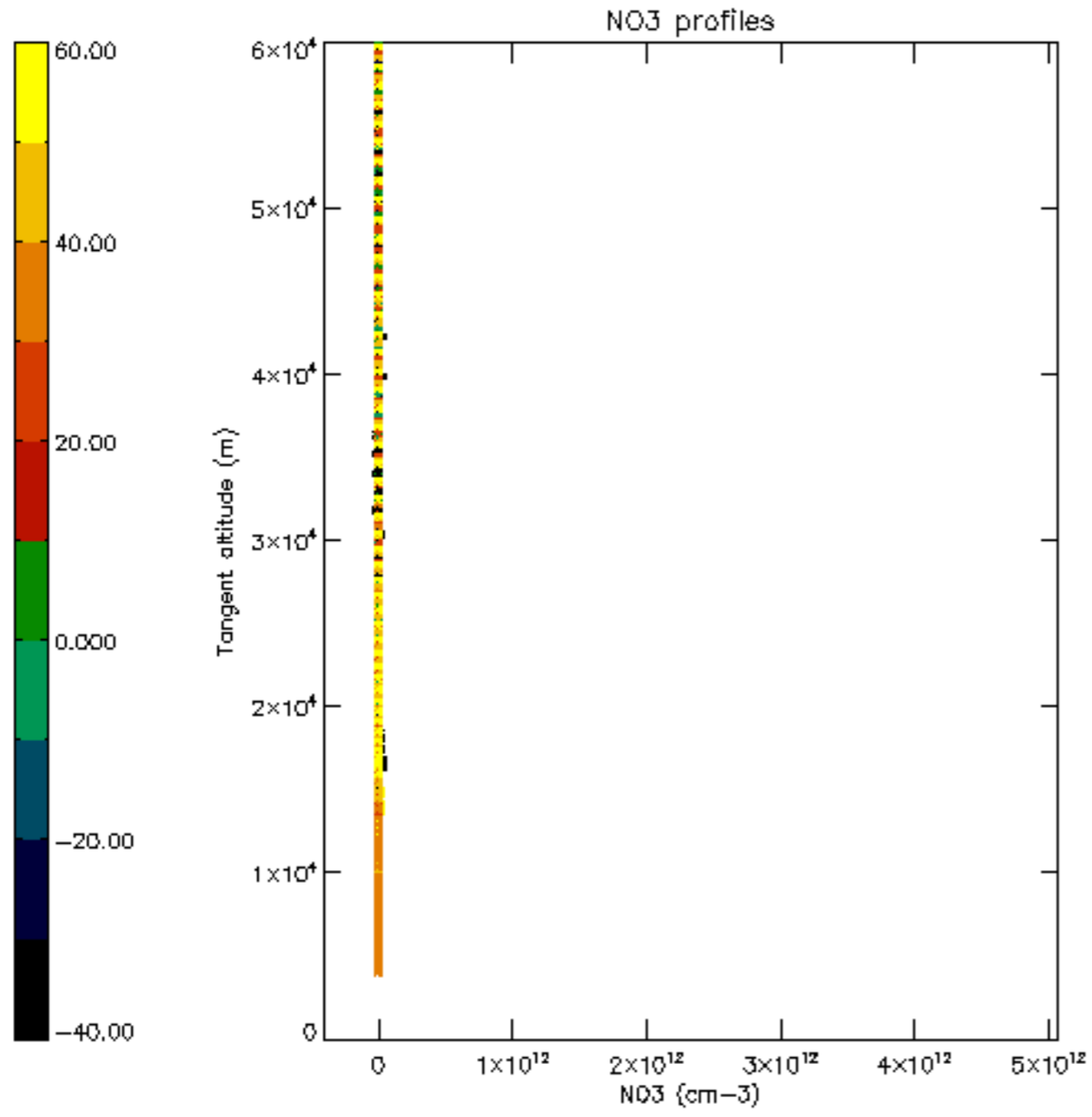


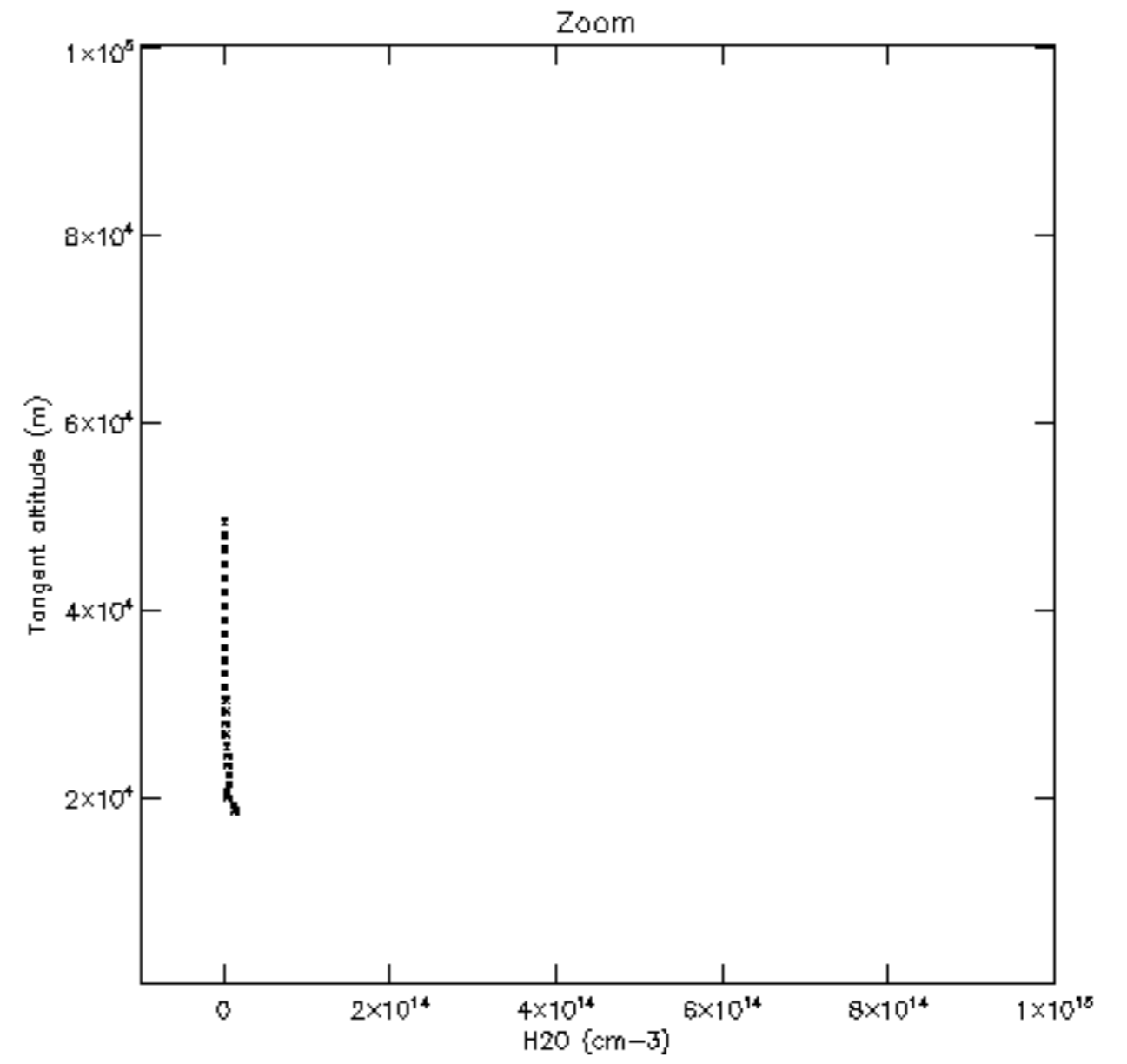
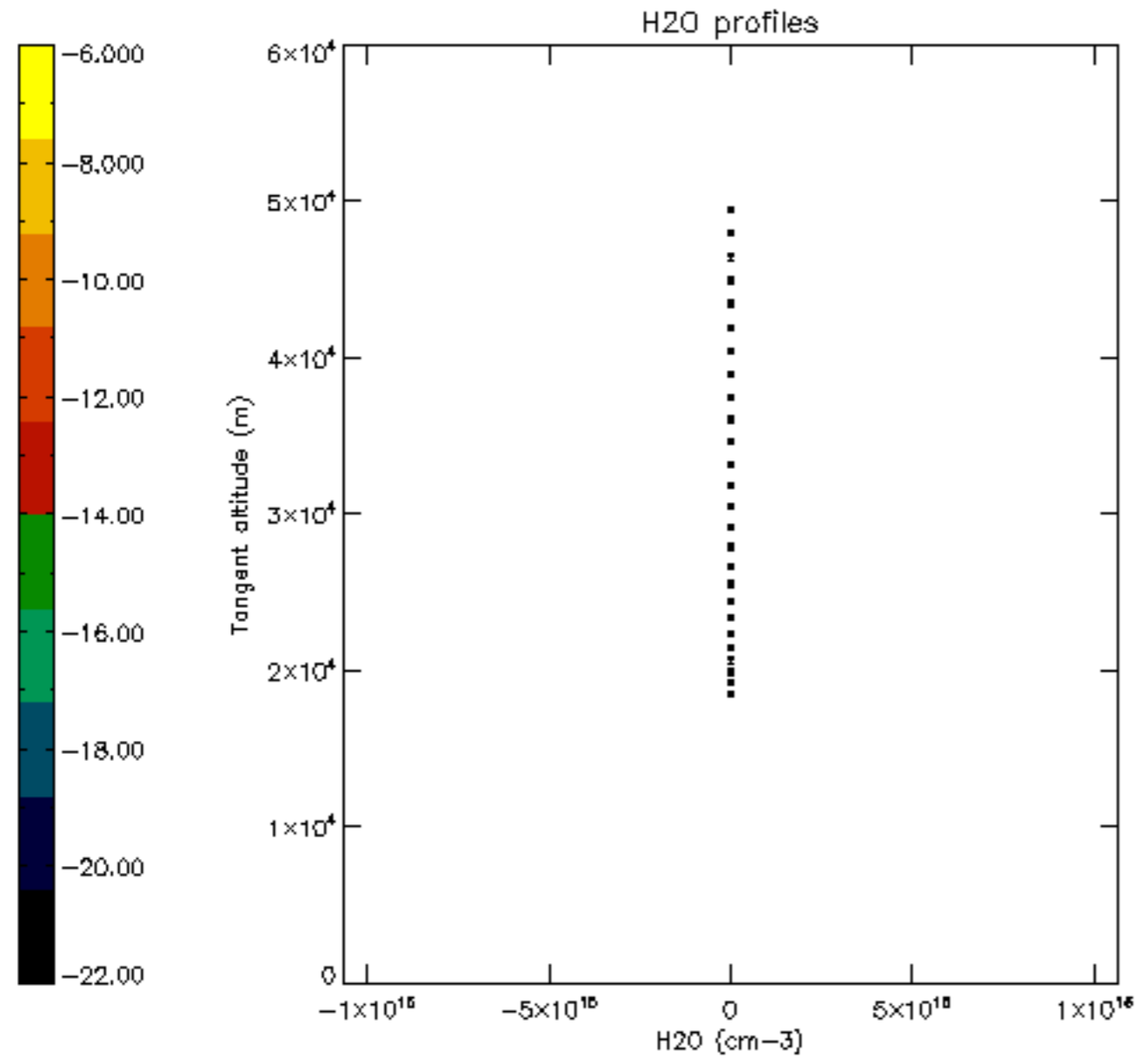


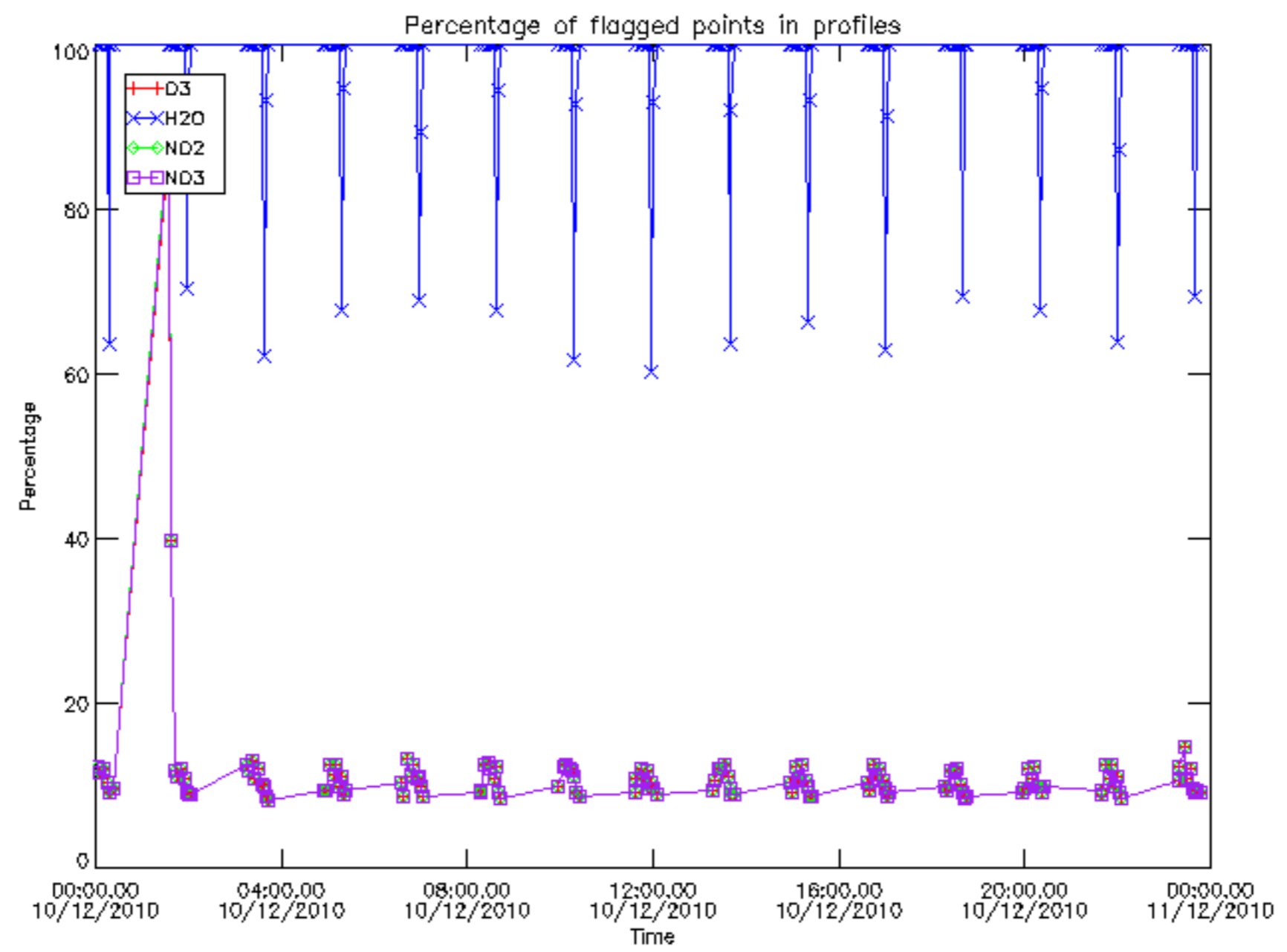




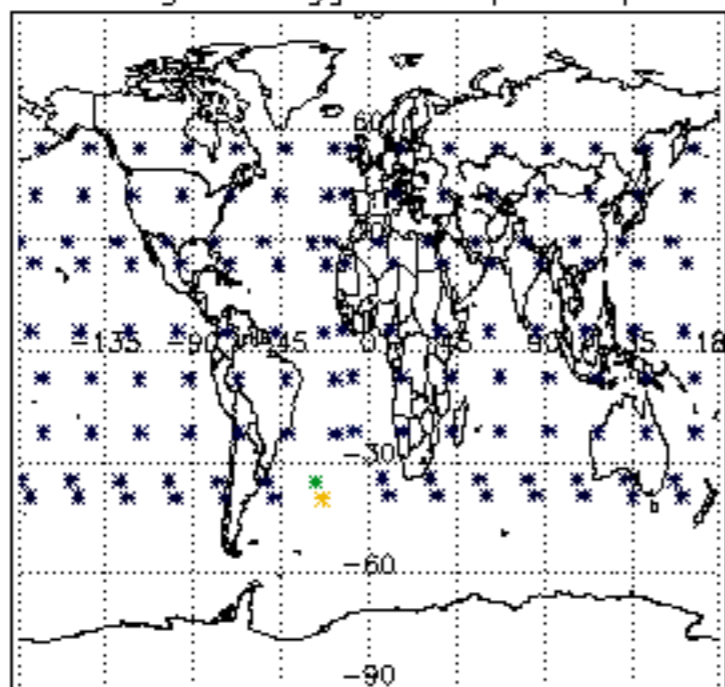




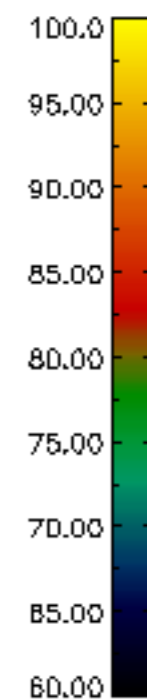
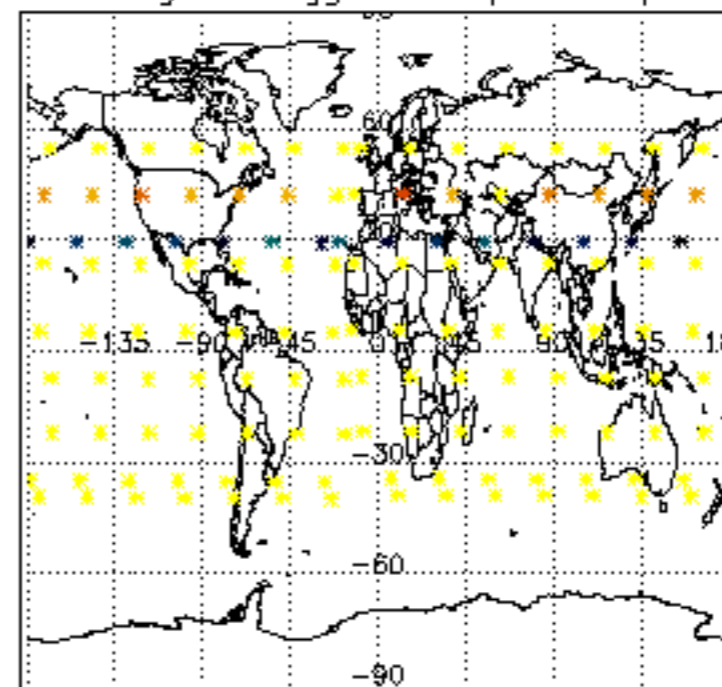




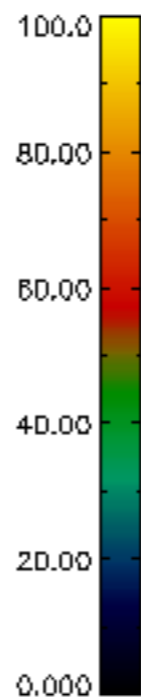
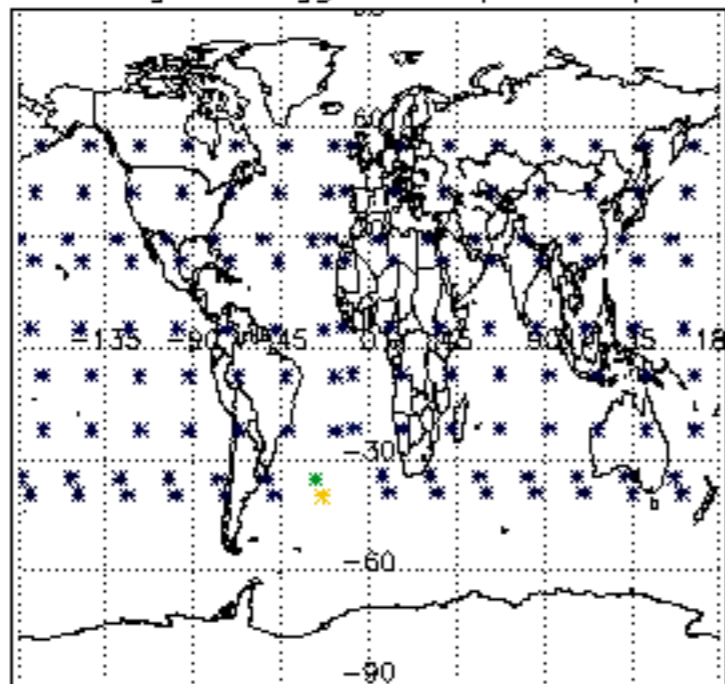
Percentage of flagged data per D3 profile



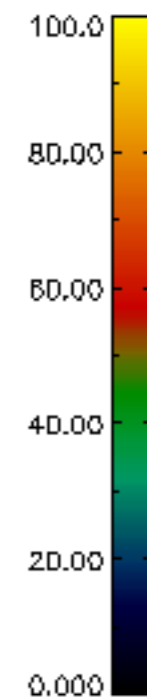
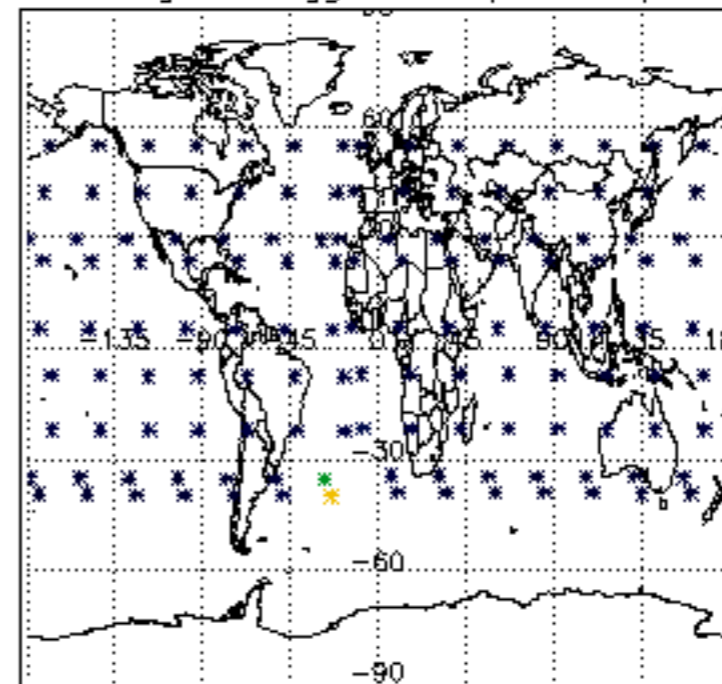
Percentage of flagged data per H2O profile

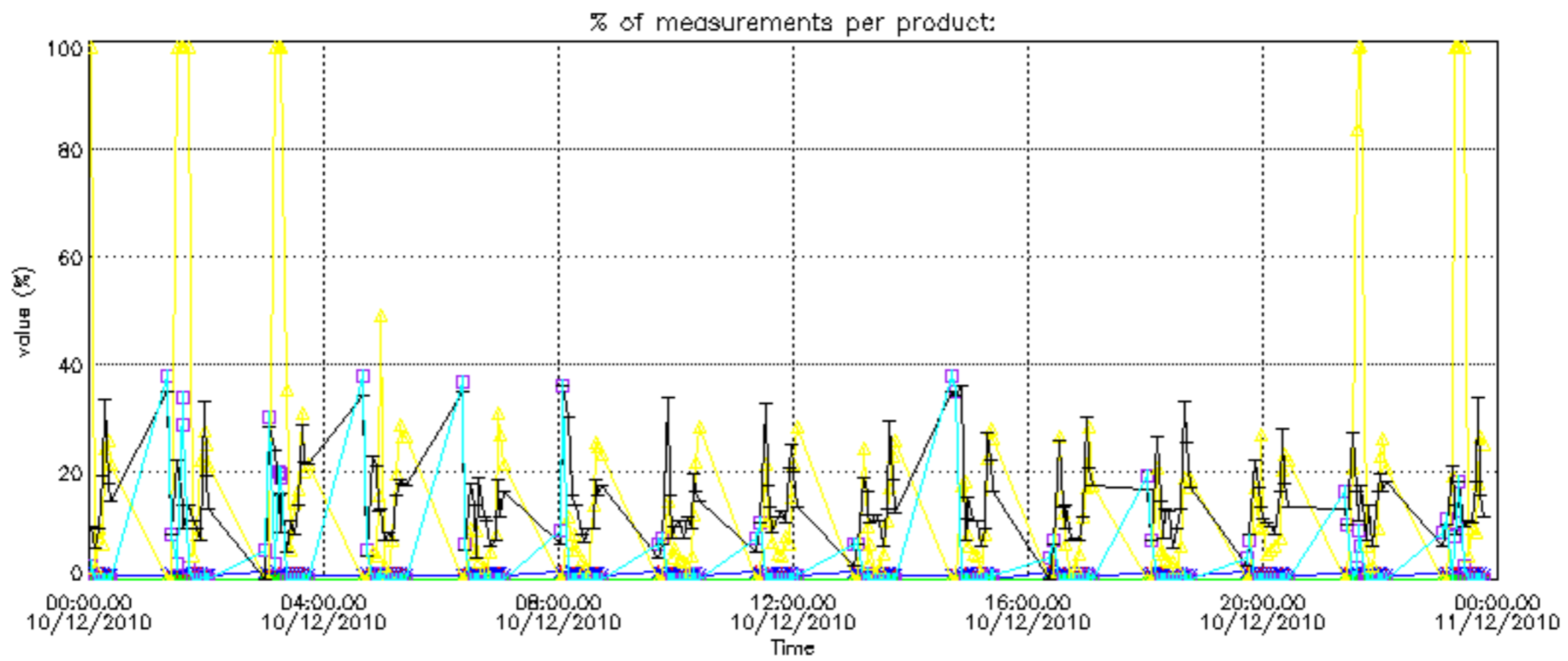


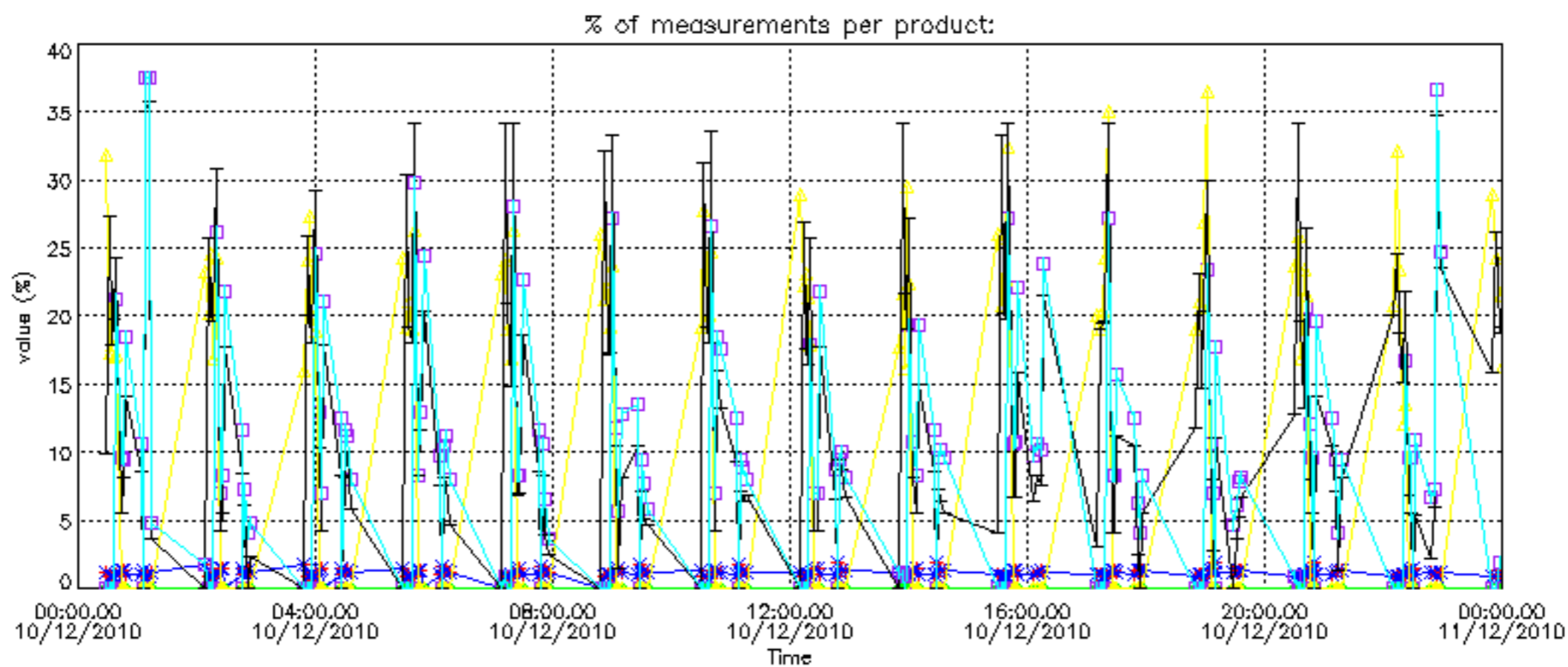
Percentage of flagged data per NO2 profile



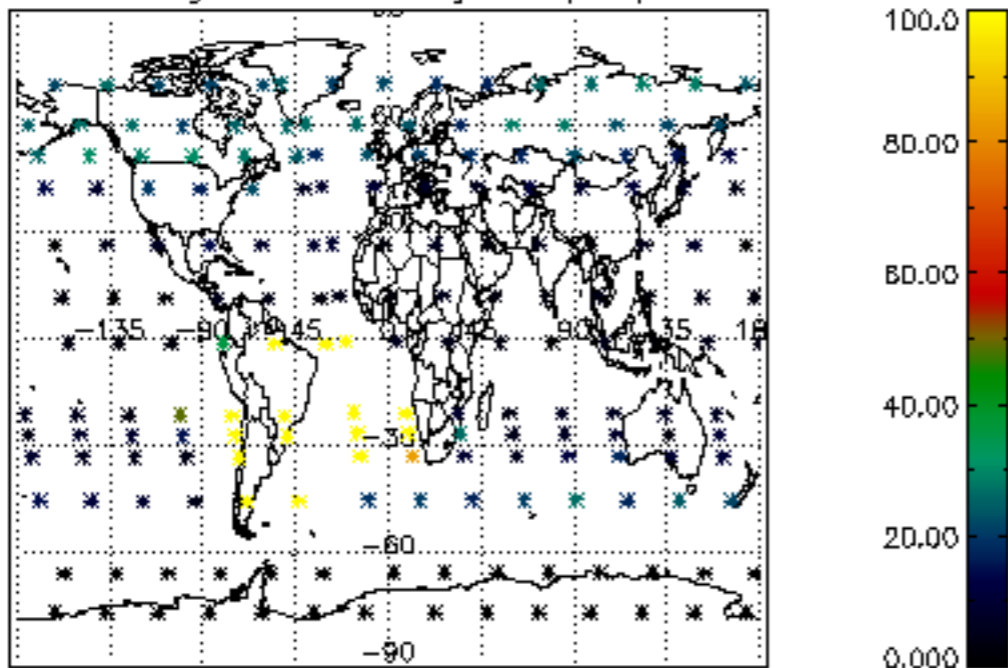
Percentage of flagged data per NO3 profile



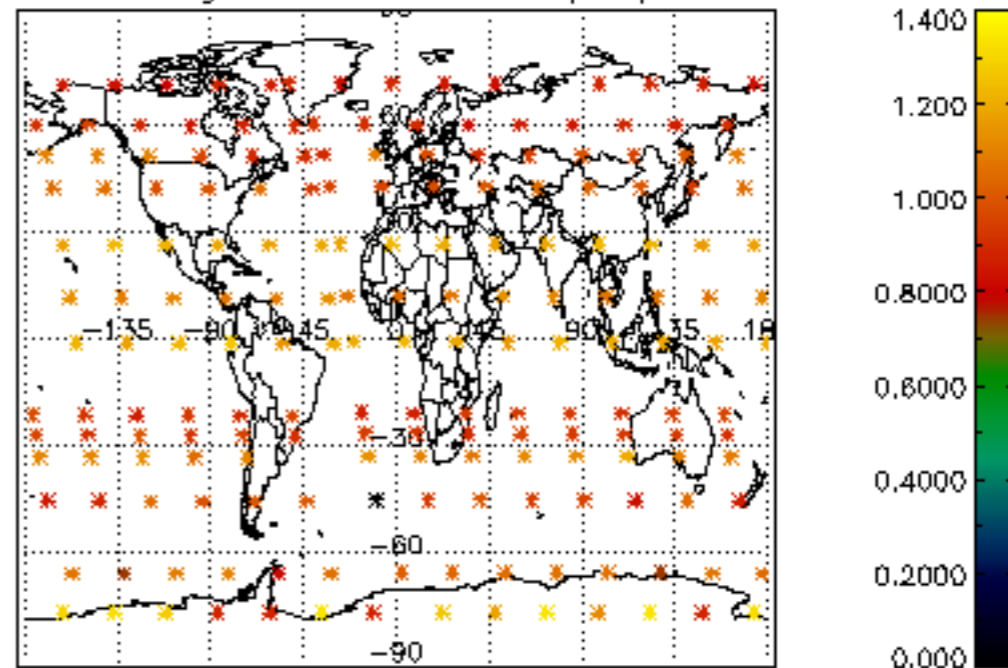




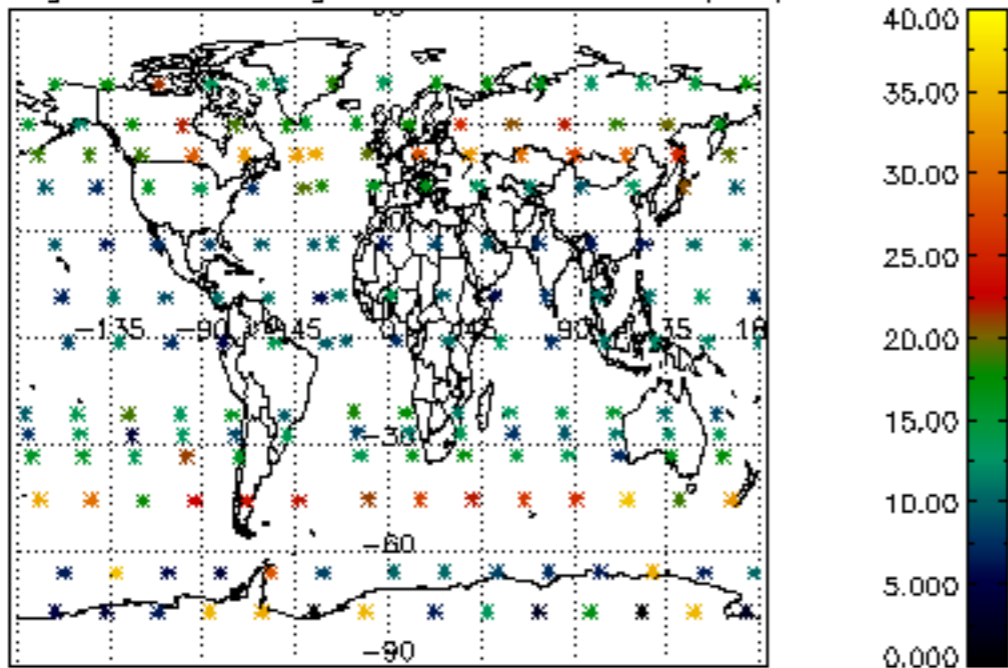
Percentage of cosmic ray hits per profile



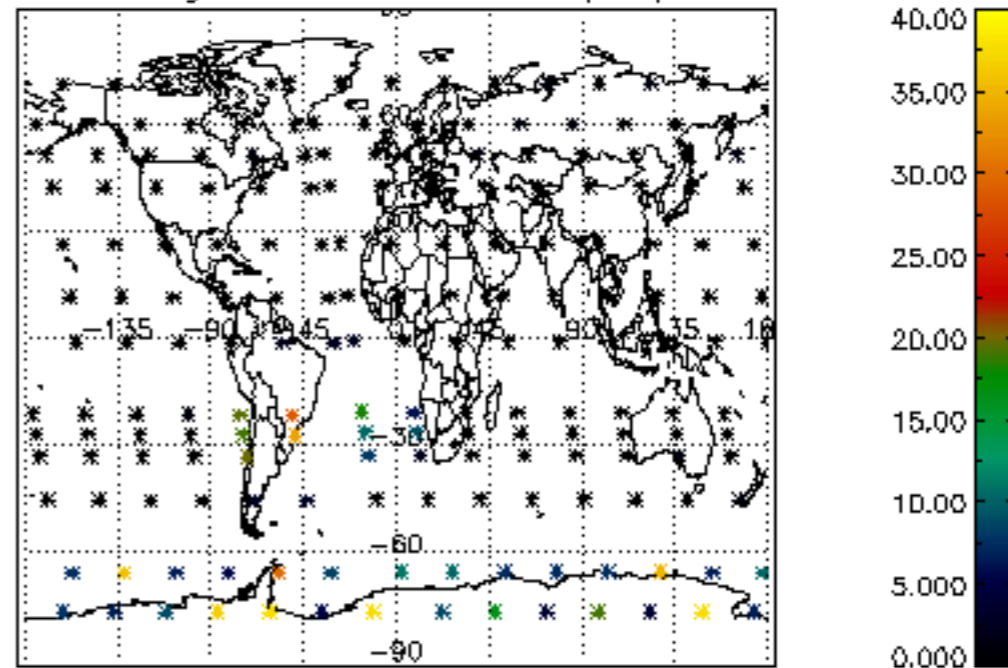
Percentage of datation errors per profile



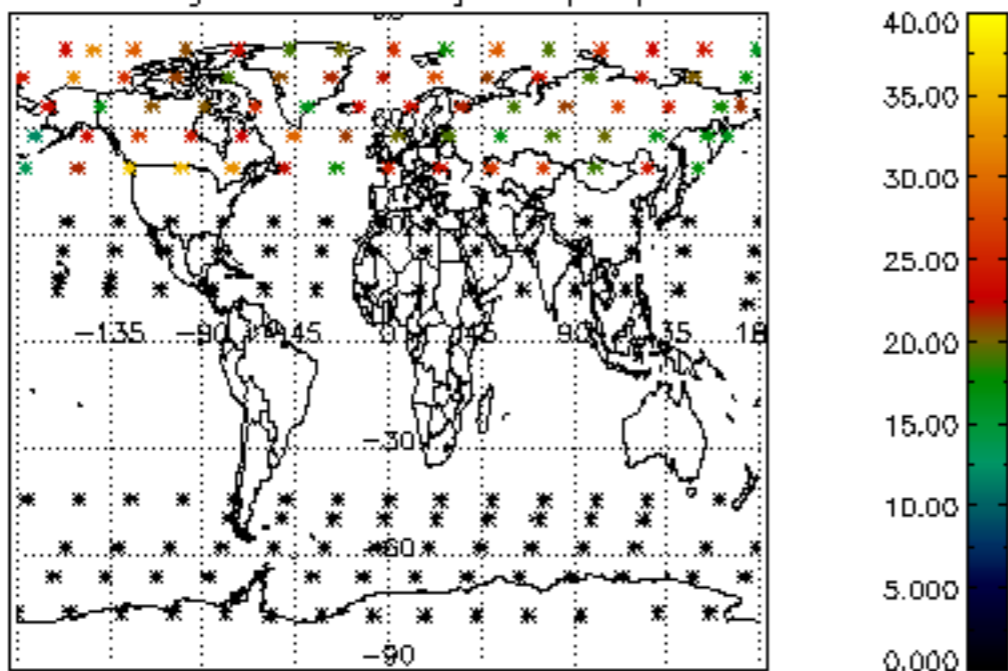
Percentage of star falling outside central band per profile



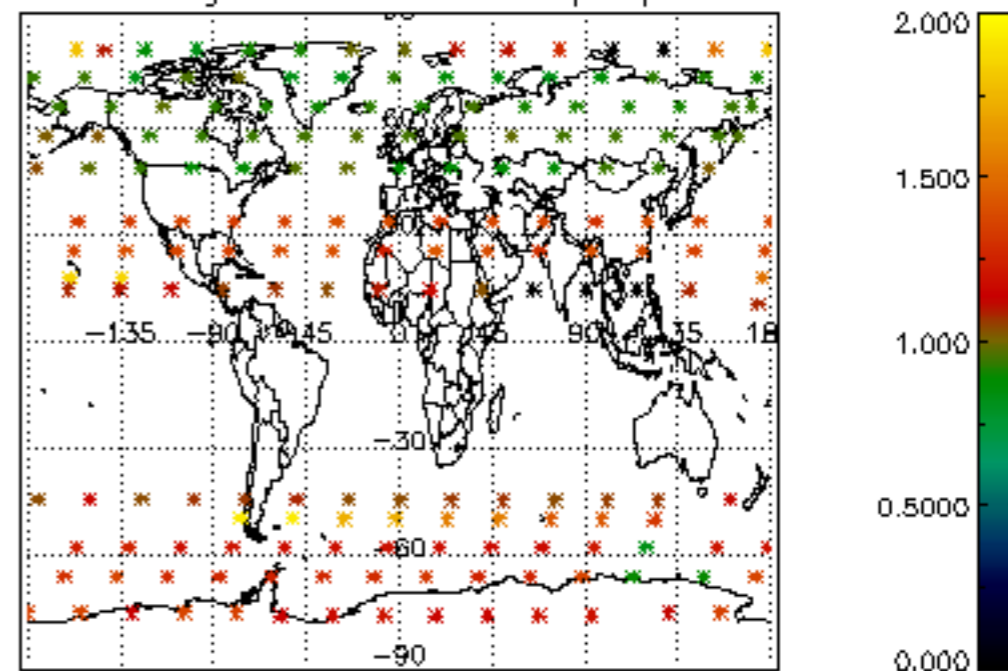
Percentage of saturation errors per profile



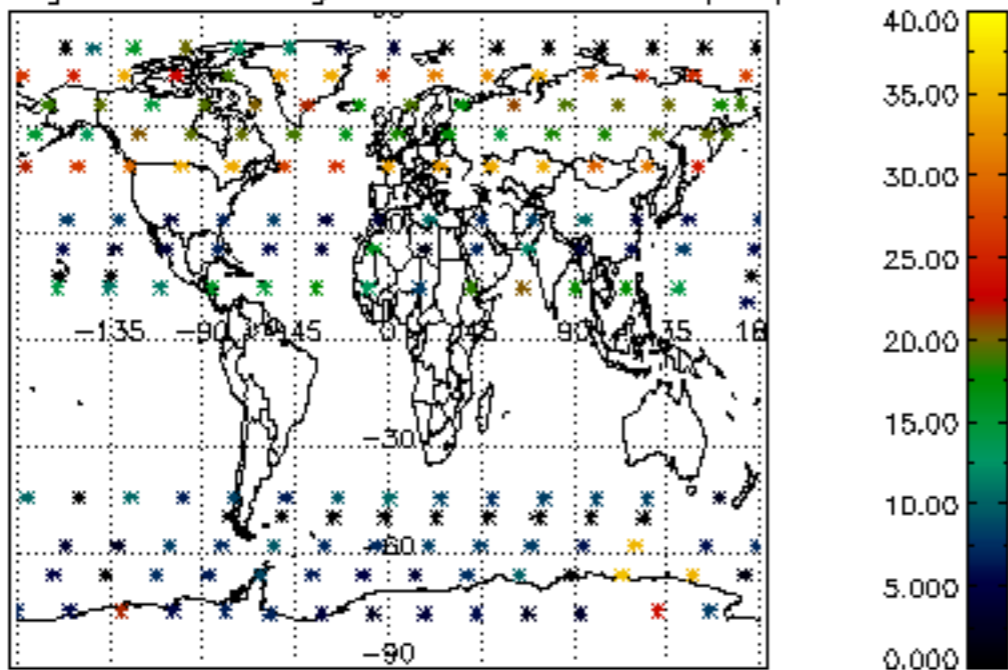
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

