

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	22APR2013 15:43:38
Data source version	GOMOS/6.01
Start time of products	14-02-2006 (14FEB2006 00:00:00)
Stop time of products	15-02-2006 (15FEB2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	311
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

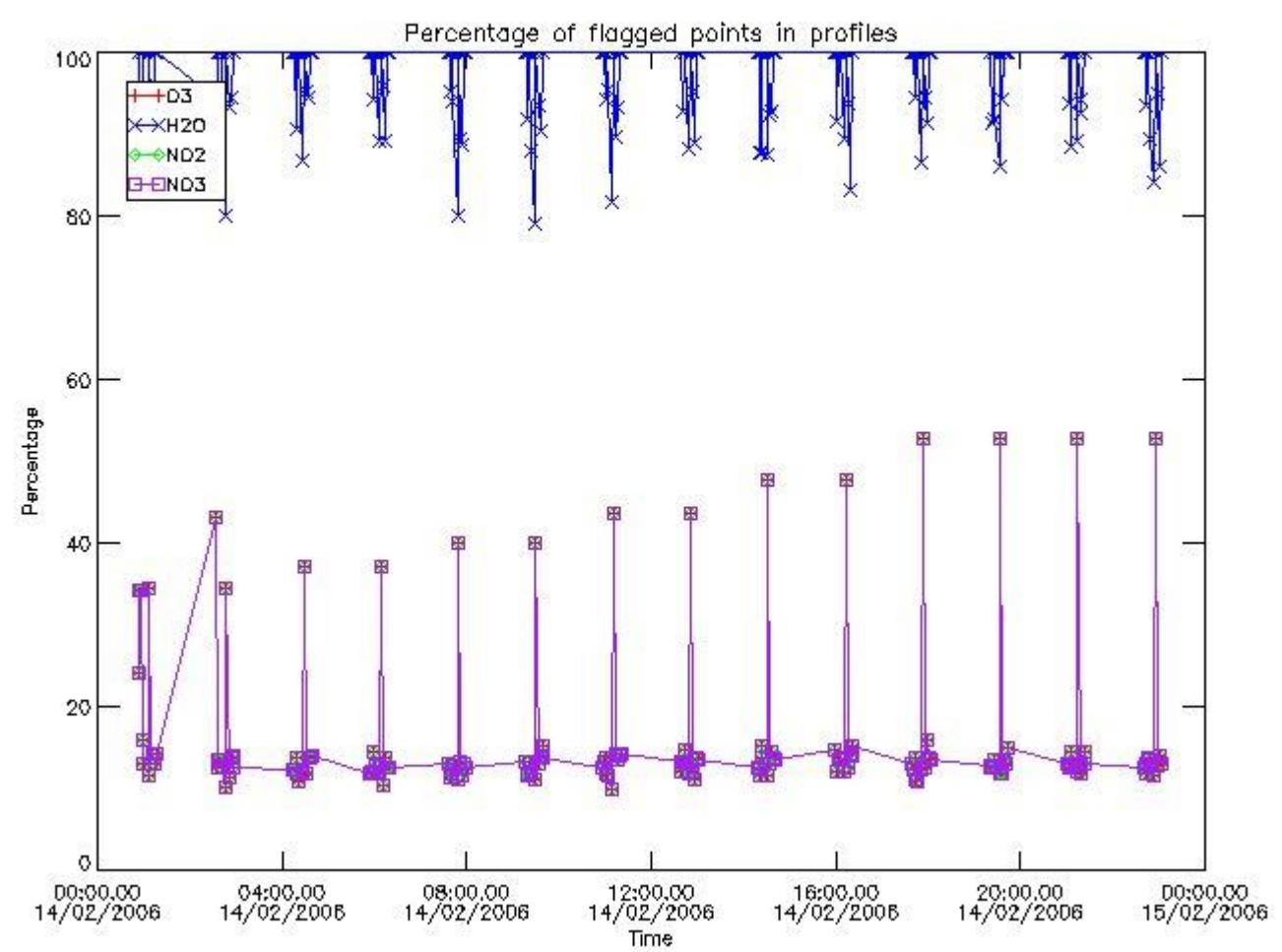
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060214_001710_000000332045_00102_20697_8688.N1	14-FEB-2006 00:17:10	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	20697	No
2	GOM_NL__2PRFIN20060214_002403_000000362045_00102_20697_8689.N1	14-FEB-2006 00:24:03	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	20697	No
3	GOM_NL__2PRFIN20060214_002910_000000332045_00102_20697_8690.N1	14-FEB-2006 00:29:10	Bright	33.000	19	50Alp Cyg	1.2460	10500.	66	20697	No
4	GOM_NL__2PRFIN20060214_003048_000000342045_00102_20697_8691.N1	14-FEB-2006 00:30:48	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	20697	No
5	GOM_NL__2PRFIN20060214_003859_000000332045_00102_20697_8692.N1	14-FEB-2006 00:38:59	Bright	33.000	168	17Zet Aql	2.9860	11000.	66	20697	No
6	GOM_NL__2PRFIN20060214_005011_000000412045_00102_20697_8693.N1	14-FEB-2006 00:50:11	Twilight	40.500	57	34Sig Sgr	2.0660	26000.	81	20697	No
7	GOM_NL__2PRFIN20060214_005255_000000392045_00102_20697_8694.N1	14-FEB-2006 00:52:55	Dark	38.500	38	20Eps Sgr	1.8360	11000.	77	20697	No
8	GOM_NL__2PRFIN20060214_005500_000000442045_00102_20697_8695.N1	14-FEB-2006 00:55:00	Dark	44.000	25	35Lam Sco	1.6200	28000.	88	20697	No
9	GOM_NL__2PRFIN20060214_005618_000000402045_00102_20697_8696.N1	14-FEB-2006 00:56:18	Dark	40.000	40	The Sco	1.8590	7100.0	80	20697	No
10	GOM_NL__2PRFIN20060214_005804_000000392045_00102_20697_8697.N1	14-FEB-2006 00:58:04	Dark	38.500	147	Alp Ara	2.8770	26000.	77	20697	No
11	GOM_NL__2PRFIN20060214_005932_000000402045_00102_20697_8698.N1	14-FEB-2006 00:59:32	Dark	39.500	141	Bet Ara	2.8400	4600.0	79	20697	No
12	GOM_NL__2PRFIN20060214_010538_000000452045_00103_20698_8677.N1	14-FEB-2006 01:05:38	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	20698	No
13	GOM_NL__2PRFIN20060214_010656_000000152045_00103_20698_8678.N1	14-FEB-2006 01:06:56	Dark	15.000	10	Bet Cen	0.61000	28000.	30	20698	No
14	GOM_NL__2PRFIN20060214_011003_000000392045_00103_20698_8679.N1	14-FEB-2006 01:10:03	Dark	39.000	12	Alp1Cru	0.77500	30000.	78	20698	No
15	GOM_NL__2PRFIN20060214_011236_000000362045_00103_20698_8680.N1	14-FEB-2006 01:12:36	Dark	36.000	29	Bet Car	1.6720	10200.	72	20698	No
16	GOM_NL__2PRFIN20060214_011512_000000402045_00103_20698_8681.N1	14-FEB-2006 01:15:12	Dark	39.500	71	lot Car	2.2460	7700.0	79	20698	No
17	GOM_NL__2PRFIN20060214_011651_000000362045_00103_20698_8682.N1	14-FEB-2006 01:16:51	Dark	36.000	46	Del Vel	1.9540	10600.	72	20698	No
18	GOM_NL__2PRFIN20060214_011914_000000392045_00103_20698_8683.N1	14-FEB-2006 01:19:14	Straylight	39.000	34	Gam2Vel	1.7930	23000.	78	20698	No
19	GOM_NL__2PRFIN20060214_012118_000000402045_00103_20698_8684.N1	14-FEB-2006 01:21:18	Straylight	39.500	70	Zet Pup	2.2460	39000.	79	20698	No
20	GOM_NL__2PRFIN20060214_012536_000000402045_00103_20698_8685.N1	14-FEB-2006 01:25:36	Straylight	39.500	132	15Rho Pup	2.8030	6900.0	79	20698	No
21	GOM_NL__2PRFIN20060214_013404_000000502045_00103_20698_8686.N1	14-FEB-2006 01:34:04	Bright	50.000	8	10Alp CMi	0.40000	6500.0	100	20698	No
22	GOM_NL__2PRFIN20060214_014022_000000402045_00103_20698_8687.N1	14-FEB-2006 01:40:22	Bright	39.500	17	78Bet Gem	1.1610	4500.0	79	20698	No
23	GOM_NL__2PRFIN20060214_015746_000000352045_00103_20698_8688.N1	14-FEB-2006 01:57:46	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	20698	No
24	GOM_NL__2PRFIN20060214_020439_000000352045_00103_20698_8689.N1	14-FEB-2006 02:04:39	Bright	34.500	89	5Alp Cep	2.4510	8000.0	69	20698	No
25	GOM_NL__2PRFIN20060214_020946_000000342045_00103_20698_8690.N1	14-FEB-2006 02:09:46	Bright	33.500	19	50Alp Cyg	1.2460	10500.	67	20698	No
26	GOM_NL__2PRFIN20060214_021124_000000342045_00103_20698_8691.N1	14-FEB-2006 02:11:24	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	20698	No
27	GOM_NL__2PRFIN20060214_021935_000000342045_00103_20698_8692.N1	14-FEB-2006 02:19:35	Bright	33.500	168	17Zet Aql	2.9860	11000.	67	20698	No
28	GOM_NL__2PRFIN20060214_023332_000000372045_00103_20698_8693.N1	14-FEB-2006 02:33:32	Dark	36.500	38	20Eps Sgr	1.8360	11000.	73	20698	No
29	GOM_NL__2PRFIN20060214_023536_000000422045_00103_20698_8694.N1	14-FEB-2006 02:35:36	Dark	41.500	25	35Lam Sco	1.6200	28000.	83	20698	No
30	GOM_NL__2PRFIN20060214_023654_000000412045_00103_20698_8695.N1	14-FEB-2006 02:36:54	Dark	40.500	40	The Sco	1.8590	7100.0	81	20698	No
31	GOM_NL__2PRFIN20060214_023841_000000382045_00103_20698_8696.N1	14-FEB-2006 02:38:41	Dark	38.000	147	Alp Ara	2.8770	26000.	76	20698	No
32	GOM_NL__2PRFIN20060214_024008_000000452045_00103_20698_8697.N1	14-FEB-2006 02:40:08	Dark	44.500	141	Bet Ara	2.8400	4600.0	89	20698	No
33	GOM_NL__2PRFIN20060214_024614_000000512045_00104_20699_8677.N1	14-FEB-2006 02:46:14	Dark	50.500	4	Alp1Cen	-0.010000	5800.0	101	20699	No
34	GOM_NL__2PRFIN20060214_024733_000000152045_00104_20699_8678.N1	14-FEB-2006 02:47:33	Dark	15.000	10	Bet Cen	0.61000	28000.	30	20699	No
35	GOM_NL__2PRFIN20060214_025040_000000452045_00104_20699_8679.N1	14-FEB-2006 02:50:40	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	20699	No
36	GOM_NL__2PRFIN20060214_025312_000000372045_00104_20699_8680.N1	14-FEB-2006 02:53:12	Dark	37.000	29	Bet Car	1.6720	10200.	74	20699	No
37	GOM_NL__2PRFIN20060214_025548_000000372045_00104_20699_8681.N1	14-FEB-2006 02:55:48	Dark	36.500	71	lot Car	2.2460	7700.0	73	20699	No
38	GOM_NL__2PRFIN20060214_025727_000000412045_00104_20699_8682.N1	14-FEB-2006 02:57:27	Dark	41.000	46	Del Vel	1.9540	10600.	82	20699	No
39	GOM_NL__2PRFIN20060214_025950_000000372045_00104_20699_8683.N1	14-FEB-2006 02:59:50	Straylight	36.500	34	Gam2Vel	1.7930	23000.	73	20699	No
40	GOM_NL__2PRFIN20060214_030155_000000382045_00104_20699_8684.N1	14-FEB-2006 03:01:55	Straylight	38.000	70	Zet Pup	2.2460	39000.	76	20699	No
41	GOM_NL__2PRFIN20060214_030612_000000382045_00104_20699_8685.N1	14-FEB-2006 03:06:12	Straylight	37.500	132	15Rho Pup	2.8030	6900.0	75	20699	No
42	GOM_NL__2PRFIN20060214_031440_000000432045_00104_20699_8686.N1	14-FEB-2006 03:14:40	Bright	43.000	8	10Alp CMi	0.40000	6500.0	86	20699	No

279	GOM_NL__2PRFIN20060214_212226_000000362045_00115_20710_8702.N1	14-FEB-2006 21:22:26	Dark	35.500	71	lot Car	2.2460	7700.0	71	20710	No
280	GOM_NL__2PRFIN20060214_212404_000000392045_00115_20710_8703.N1	14-FEB-2006 21:24:04	Dark	39.000	46	Del Vel	1.9540	10600.	78	20710	No
281	GOM_NL__2PRFIN20060214_212627_000000412045_00115_20710_8704.N1	14-FEB-2006 21:26:27	Straylight	41.000	34	Gam2Vel	1.7930	23000.	82	20710	No
282	GOM_NL__2PRFIN20060214_212832_000000382045_00115_20710_8705.N1	14-FEB-2006 21:28:32	Straylight	37.500	70	Zet Pup	2.2460	39000.	75	20710	No
283	GOM_NL__2PRFIN20060214_213249_000000402045_00115_20710_8706.N1	14-FEB-2006 21:32:49	Straylight	39.500	132	15Rho Pup	2.8030	6900.0	79	20710	No
284	GOM_NL__2PRFIN20060214_214117_000000432045_00115_20710_8707.N1	14-FEB-2006 21:41:17	Bright	42.500	8	10Alp CMi	0.40000	6500.0	85	20710	No
285	GOM_NL__2PRFIN20060214_214734_000000372045_00115_20710_8708.N1	14-FEB-2006 21:47:34	Bright	36.500	17	78Bet Gem	1.1610	4500.0	73	20710	No
286	GOM_NL__2PRFIN20060214_220457_000000362045_00115_20710_8709.N1	14-FEB-2006 22:04:57	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	20710	No
287	GOM_NL__2PRFIN20060214_221153_000000352045_00115_20710_8710.N1	14-FEB-2006 22:11:53	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	20710	No
288	GOM_NL__2PRFIN20060214_221700_000000372045_00115_20710_8711.N1	14-FEB-2006 22:17:00	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	20710	No
289	GOM_NL__2PRFIN20060214_221837_000000362045_00115_20710_8712.N1	14-FEB-2006 22:18:37	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	20710	No
290	GOM_NL__2PRFIN20060214_222649_000000342045_00115_20710_8713.N1	14-FEB-2006 22:26:49	Bright	34.000	168	17Zet Aql	2.9860	11000.	68	20710	No
291	GOM_NL__2PRFIN20060214_223802_000000422045_00115_20710_8714.N1	14-FEB-2006 22:38:02	Twilight	41.500	57	34Sig Sgr	2.0660	26000.	83	20710	No
292	GOM_NL__2PRFIN20060214_224047_000000412045_00115_20710_8715.N1	14-FEB-2006 22:40:47	Dark	41.000	38	20Eps Sgr	1.8360	11000.	82	20710	No
293	GOM_NL__2PRFIN20060214_224254_000000432045_00115_20710_8716.N1	14-FEB-2006 22:42:54	Dark	43.000	25	35Lam Sco	1.6200	28000.	86	20710	No
294	GOM_NL__2PRFIN20060214_224411_000000392045_00115_20710_8717.N1	14-FEB-2006 22:44:11	Dark	39.000	40	The Sco	1.8590	7100.0	78	20710	No
295	GOM_NL__2PRFIN20060214_224557_000000372045_00115_20710_8718.N1	14-FEB-2006 22:45:57	Dark	37.000	147	Alp Ara	2.8770	26000.	74	20710	No
296	GOM_NL__2PRFIN20060214_224724_000000382045_00115_20710_8719.N1	14-FEB-2006 22:47:24	Dark	38.000	141	Bet Ara	2.8400	4600.0	76	20710	No
297	GOM_NL__2PRFIN20060214_225332_000000452045_00116_20711_8698.N1	14-FEB-2006 22:53:32	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	20711	No
298	GOM_NL__2PRFIN20060214_225451_000000102045_00116_20711_8699.N1	14-FEB-2006 22:54:51	Dark	10.000	10	Bet Cen	0.61000	28000.	20	20711	No
299	GOM_NL__2PRFIN20060214_225757_000000402045_00116_20711_8700.N1	14-FEB-2006 22:57:57	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	20711	No
300	GOM_NL__2PRFIN20060214_230025_000000372045_00116_20711_8701.N1	14-FEB-2006 23:00:25	Dark	36.500	29	Bet Car	1.6720	10200.	73	20711	No
301	GOM_NL__2PRFIN20060214_230302_000000402045_00116_20711_8702.N1	14-FEB-2006 23:03:02	Dark	39.500	71	lot Car	2.2460	7700.0	79	20711	No
302	GOM_NL__2PRFIN20060214_230440_000000392045_00116_20711_8703.N1	14-FEB-2006 23:04:40	Dark	39.000	46	Del Vel	1.9540	10600.	78	20711	No
303	GOM_NL__2PRFIN20060214_230703_000000402045_00116_20711_8704.N1	14-FEB-2006 23:07:03	Straylight	39.500	34	Gam2Vel	1.7930	23000.	79	20711	No
304	GOM_NL__2PRFIN20060214_230908_000000382045_00116_20711_8705.N1	14-FEB-2006 23:09:08	Straylight	37.500	70	Zet Pup	2.2460	39000.	75	20711	No
305	GOM_NL__2PRFIN20060214_231325_000000412045_00116_20711_8706.N1	14-FEB-2006 23:13:25	Straylight	40.500	132	15Rho Pup	2.8030	6900.0	81	20711	No
306	GOM_NL__2PRFIN20060214_232153_000000462045_00116_20711_8707.N1	14-FEB-2006 23:21:53	Bright	46.000	8	10Alp CMi	0.40000	6500.0	92	20711	No
307	GOM_NL__2PRFIN20060214_232810_000000382045_00116_20711_8708.N1	14-FEB-2006 23:28:10	Bright	38.000	17	78Bet Gem	1.1610	4500.0	76	20711	No
308	GOM_NL__2PRFIN20060214_234533_000000342045_00116_20711_8709.N1	14-FEB-2006 23:45:33	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	20711	No
309	GOM_NL__2PRFIN20060214_235229_000000362045_00116_20711_8710.N1	14-FEB-2006 23:52:29	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	20711	No
310	GOM_NL__2PRFIN20060214_235736_000000342045_00116_20711_8711.N1	14-FEB-2006 23:57:36	Bright	33.500	19	50Alp Cyg	1.2460	10500.	67	20711	No
311	GOM_NL__2PRFIN20060214_235913_000000342045_00116_20711_8712.N1	14-FEB-2006 23:59:13	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	20711	No

3. Quality information per product

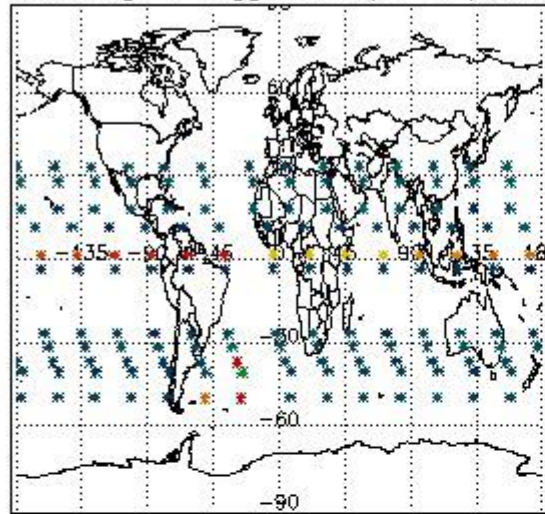
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

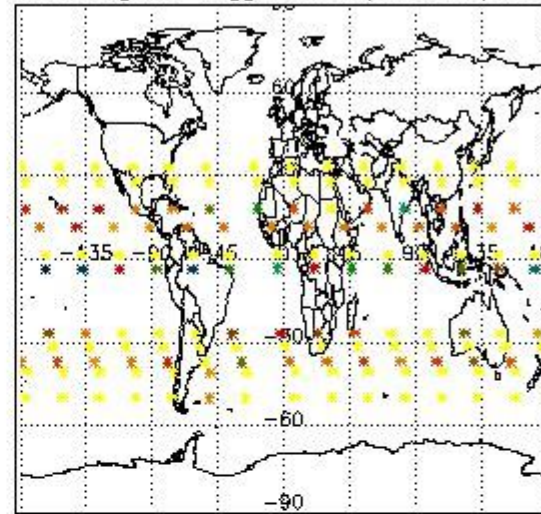


3.2 Plot quality information per product (world map)

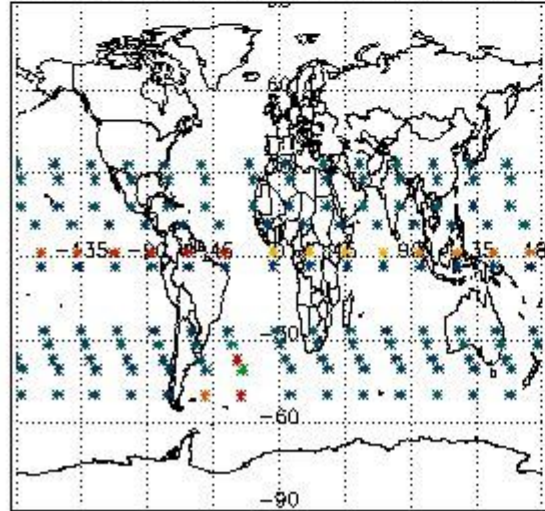
Percentage of flagged data per O3 profile



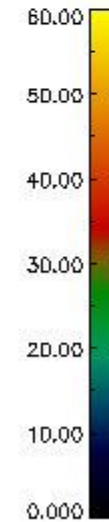
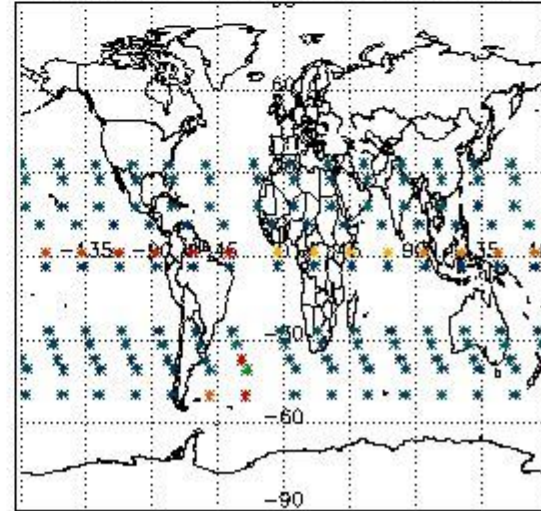
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

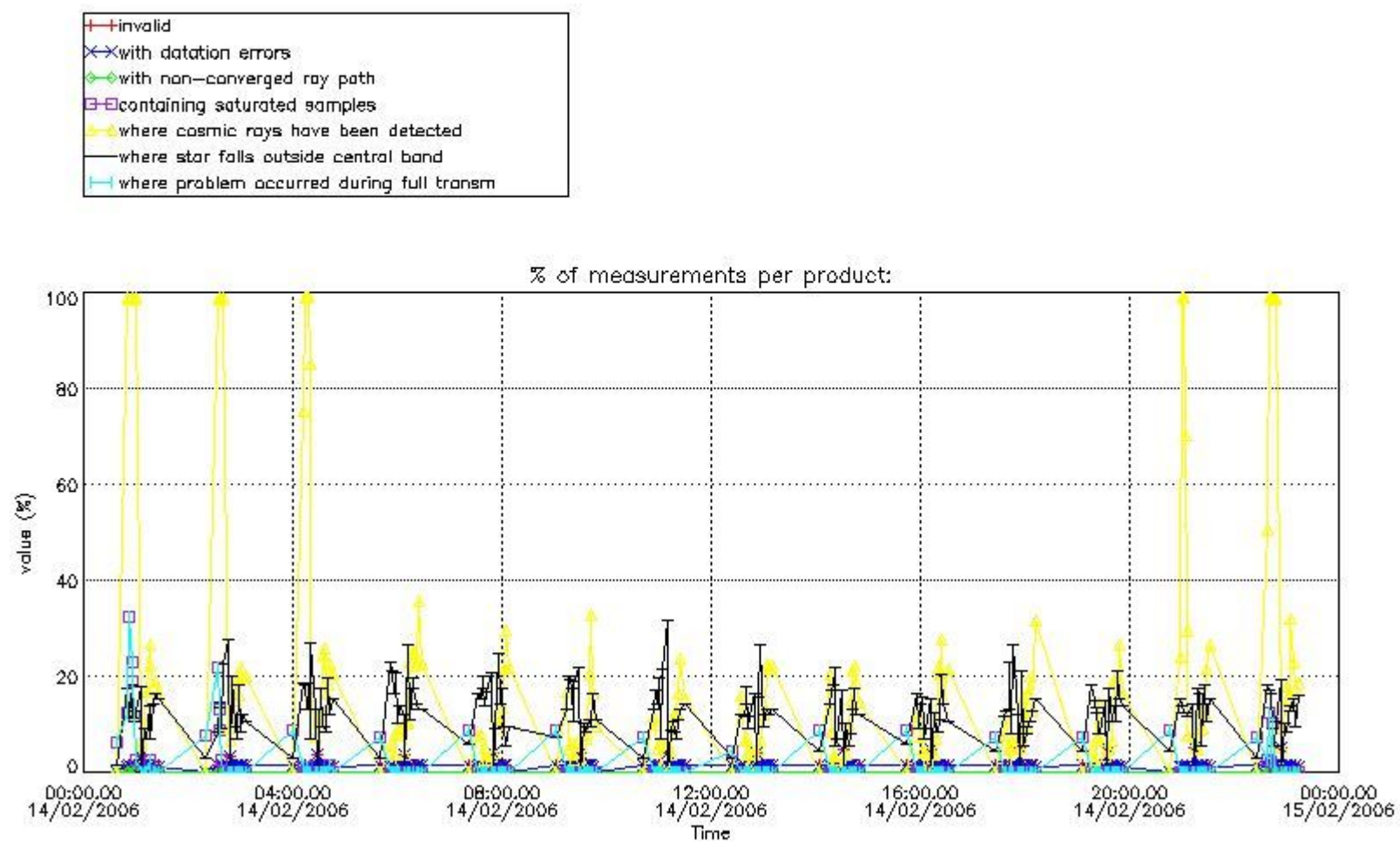


4. Level 1 quality information per product

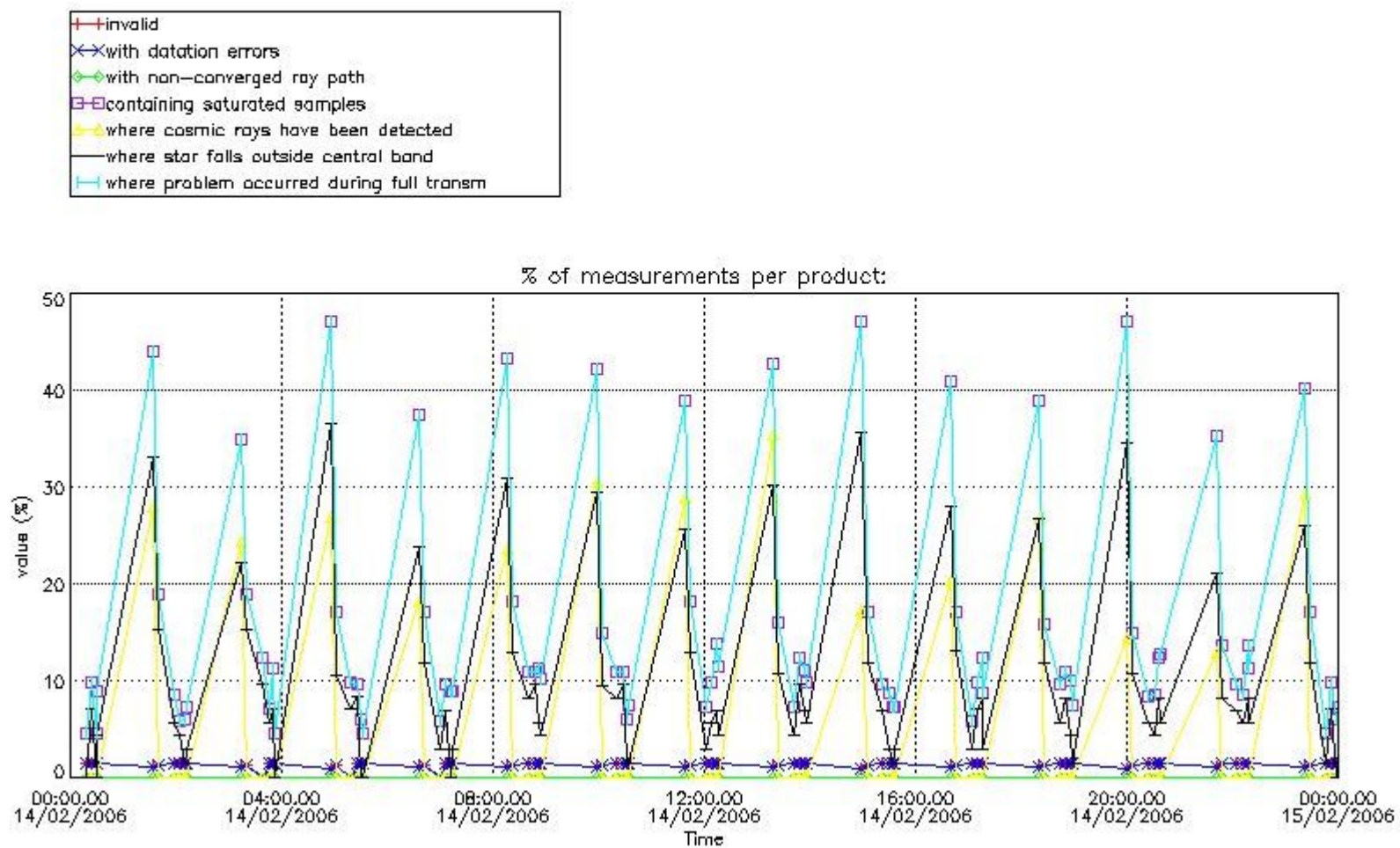
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



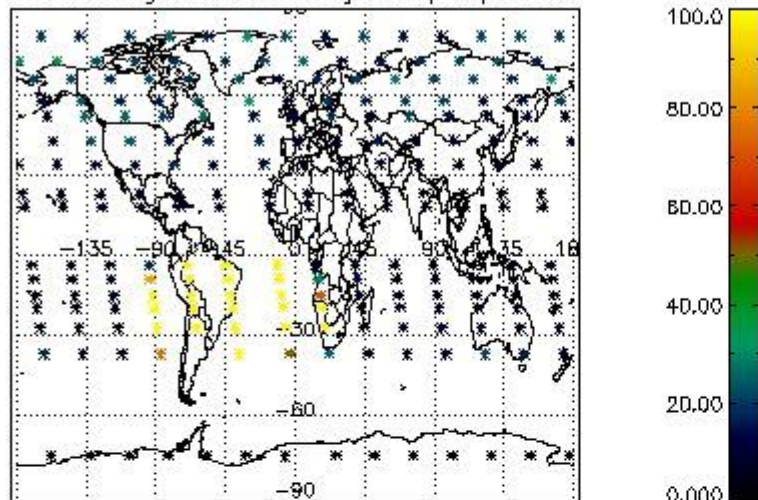
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



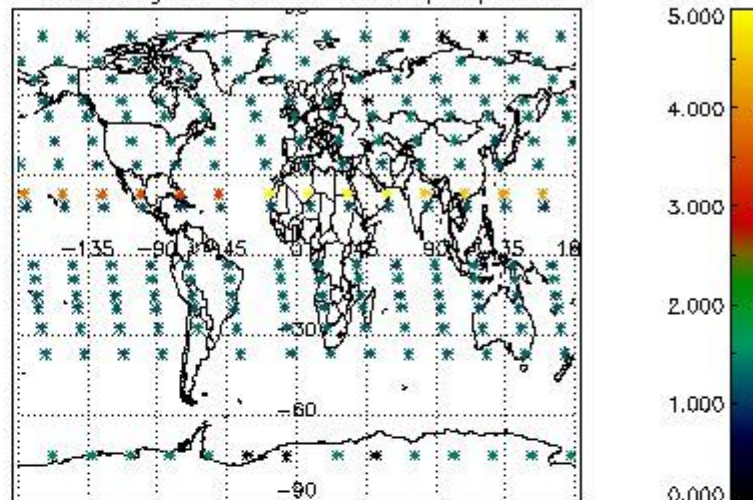
4.2 Plot quality information per product coming from level 1b processing (world map)

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

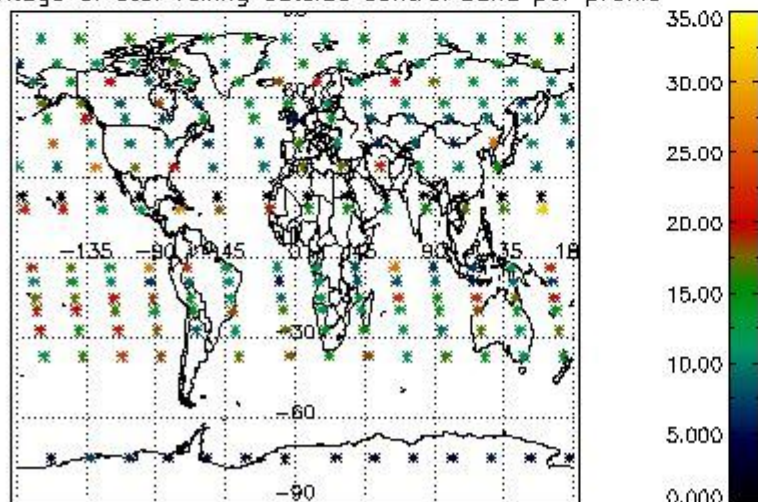
Percentage of cosmic ray hits per profile



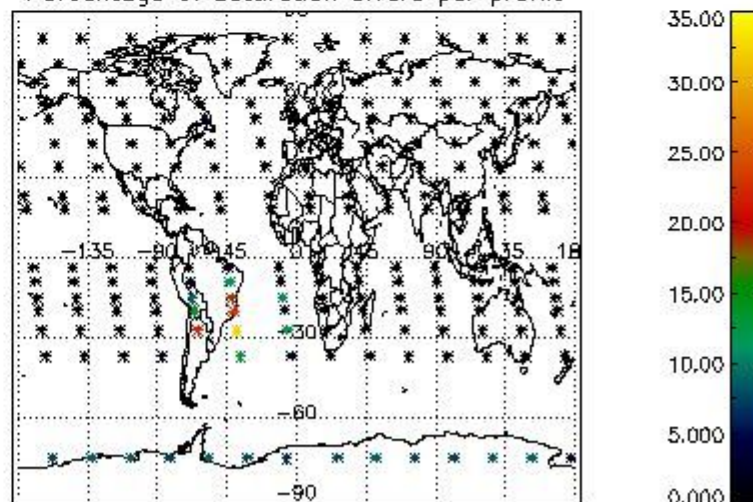
Percentage of datation errors per profile



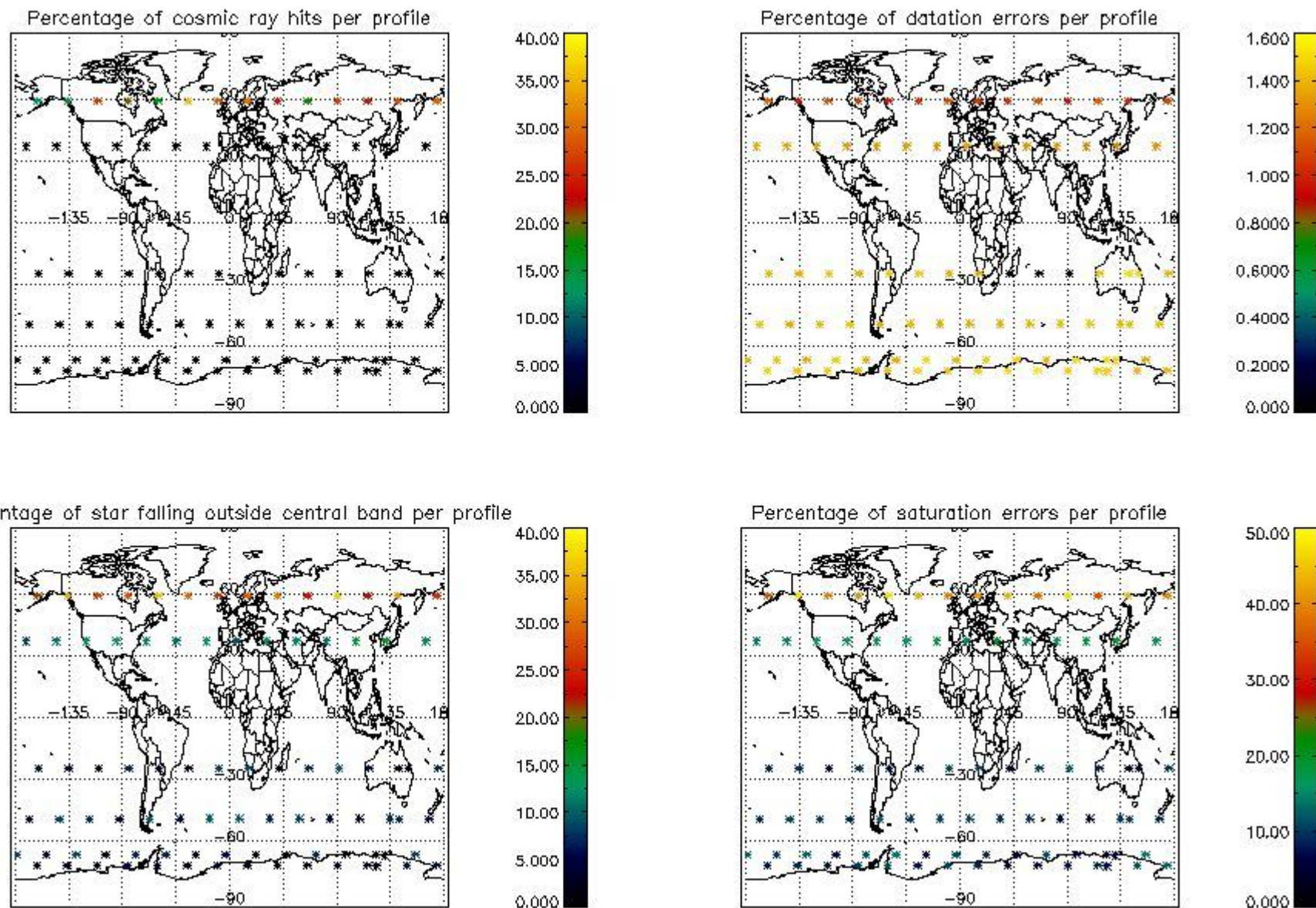
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

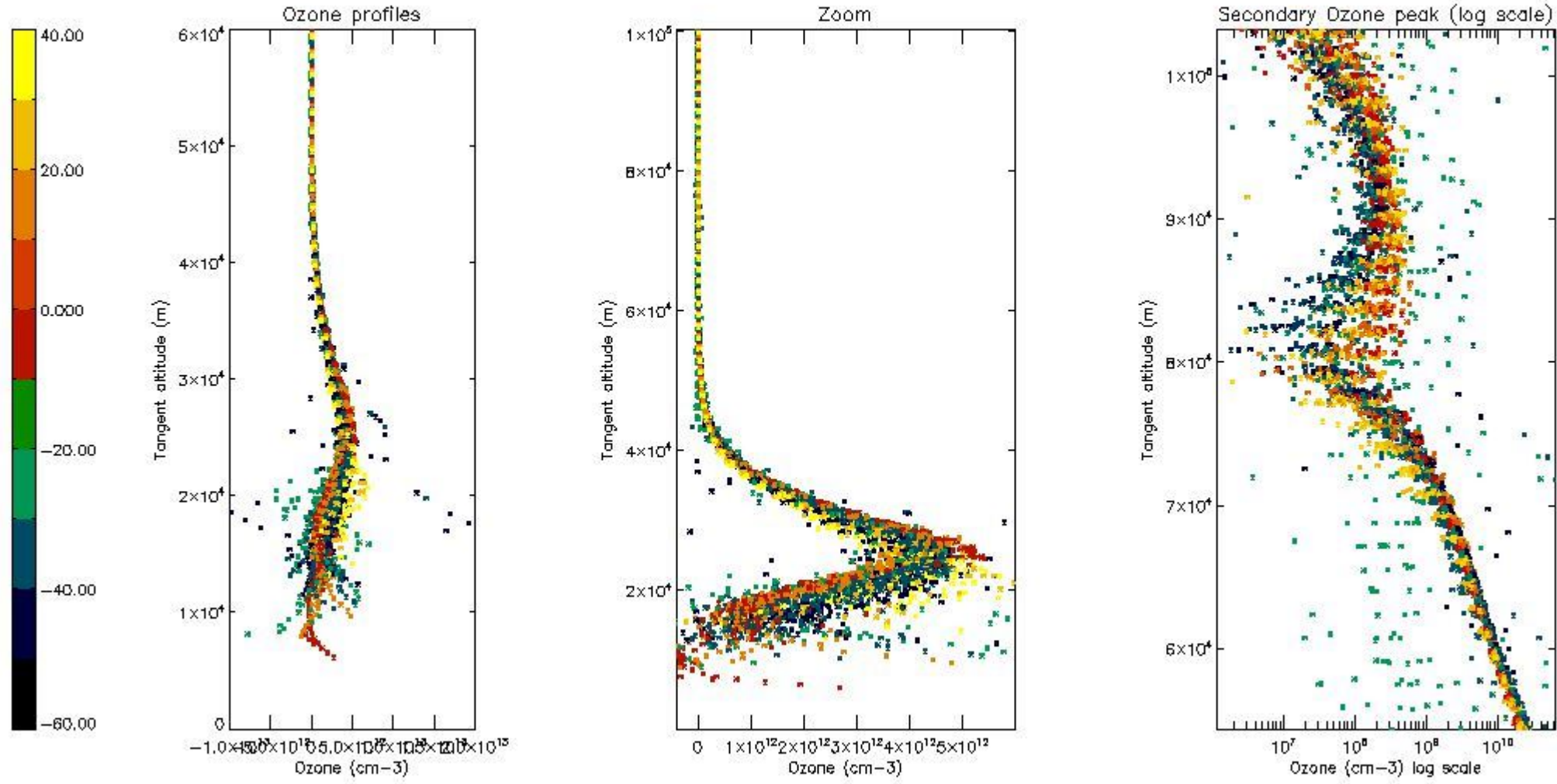
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	51
STD < 20	29

STD < 10	24
STD < 5	16

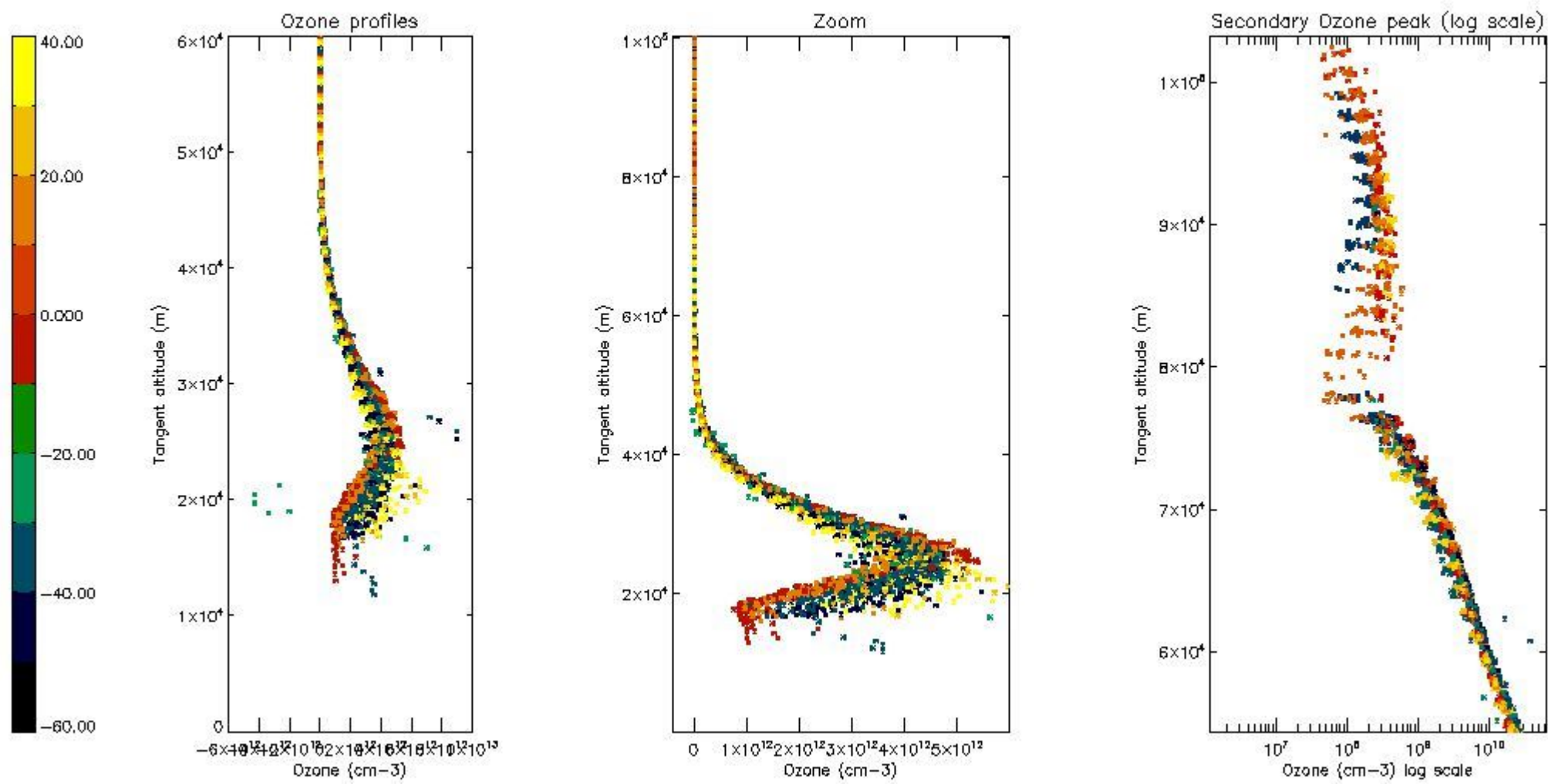
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



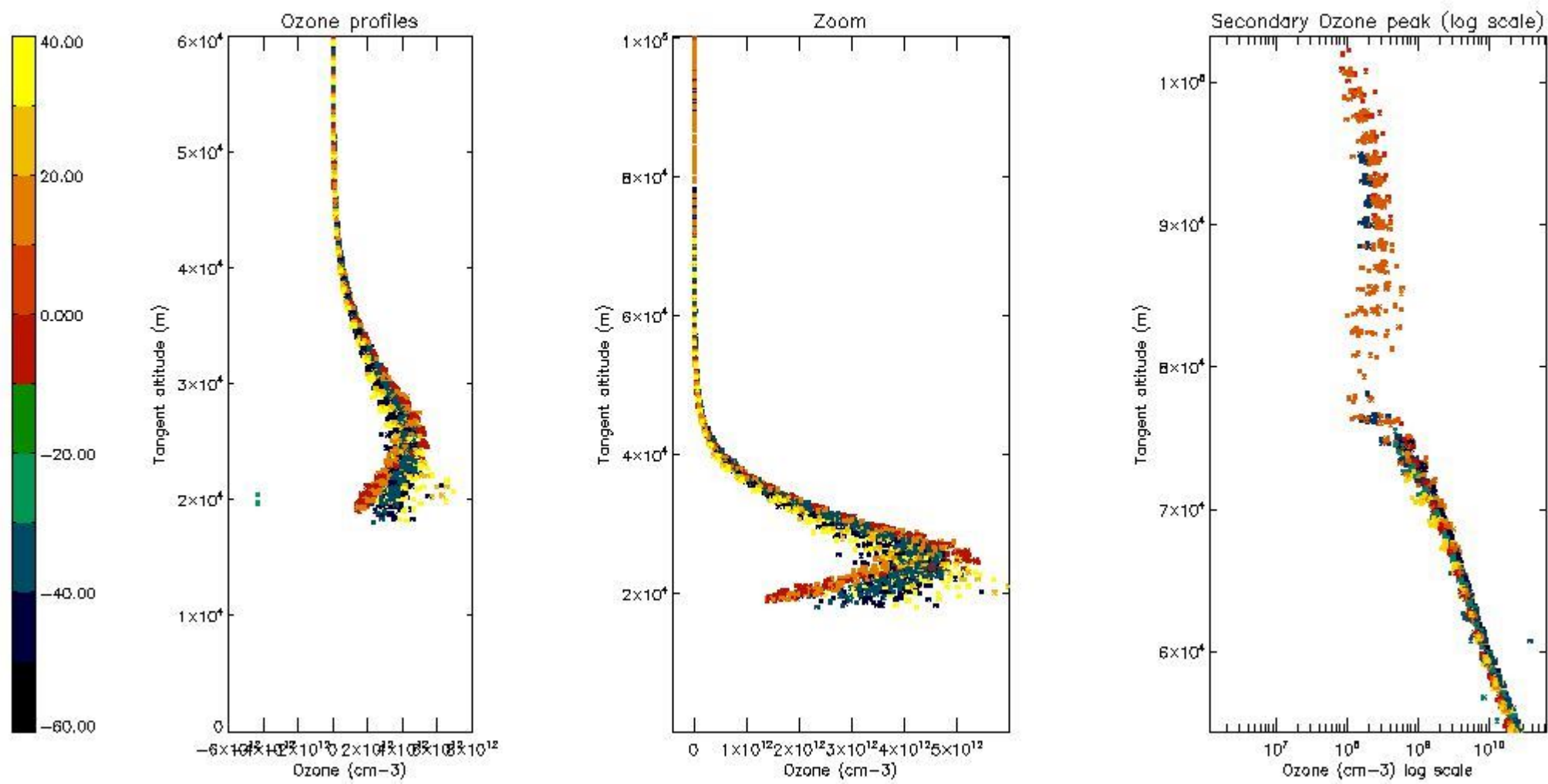
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



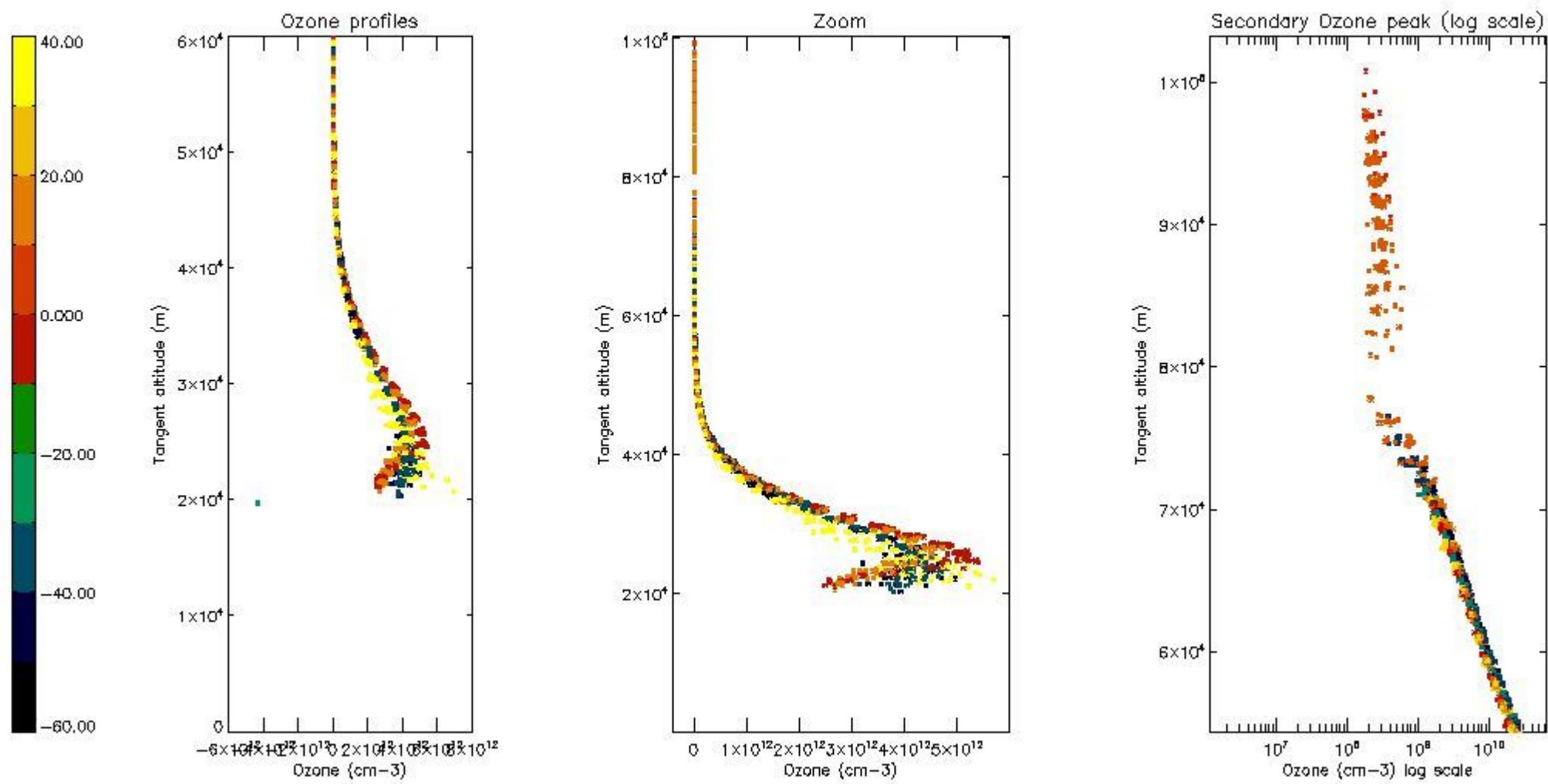
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



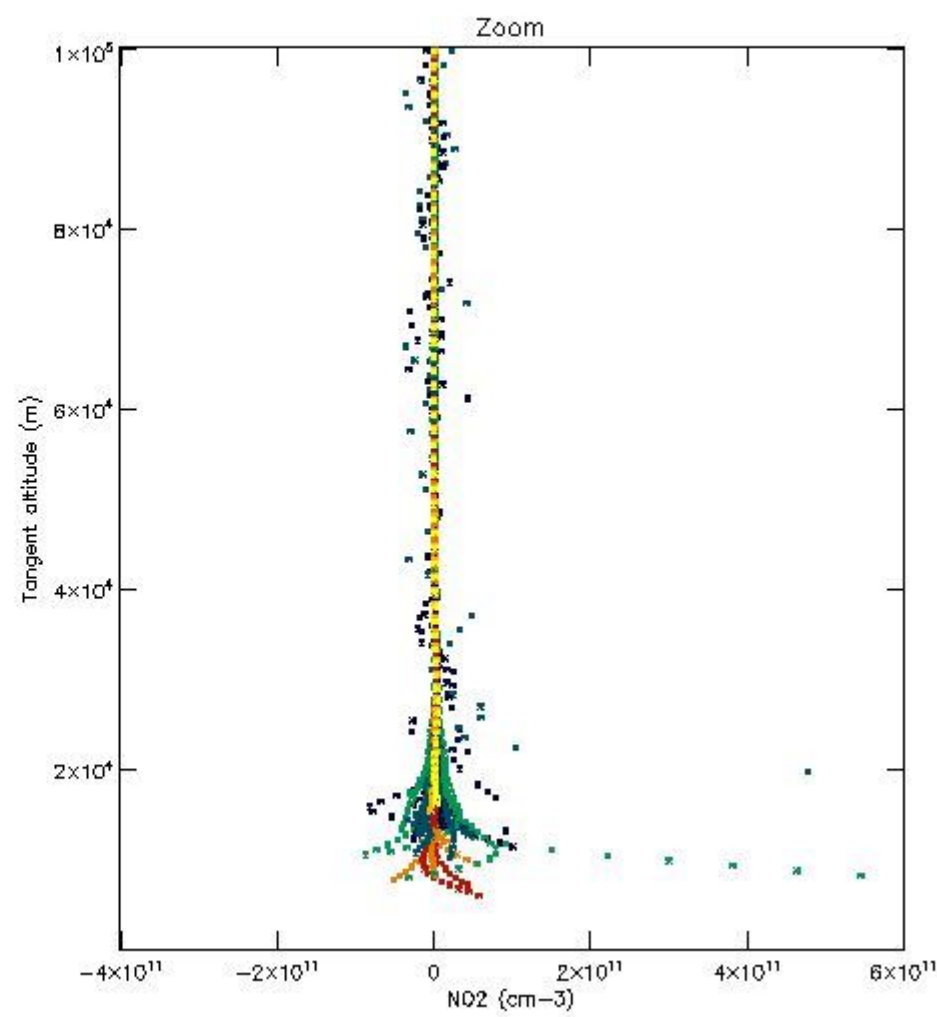
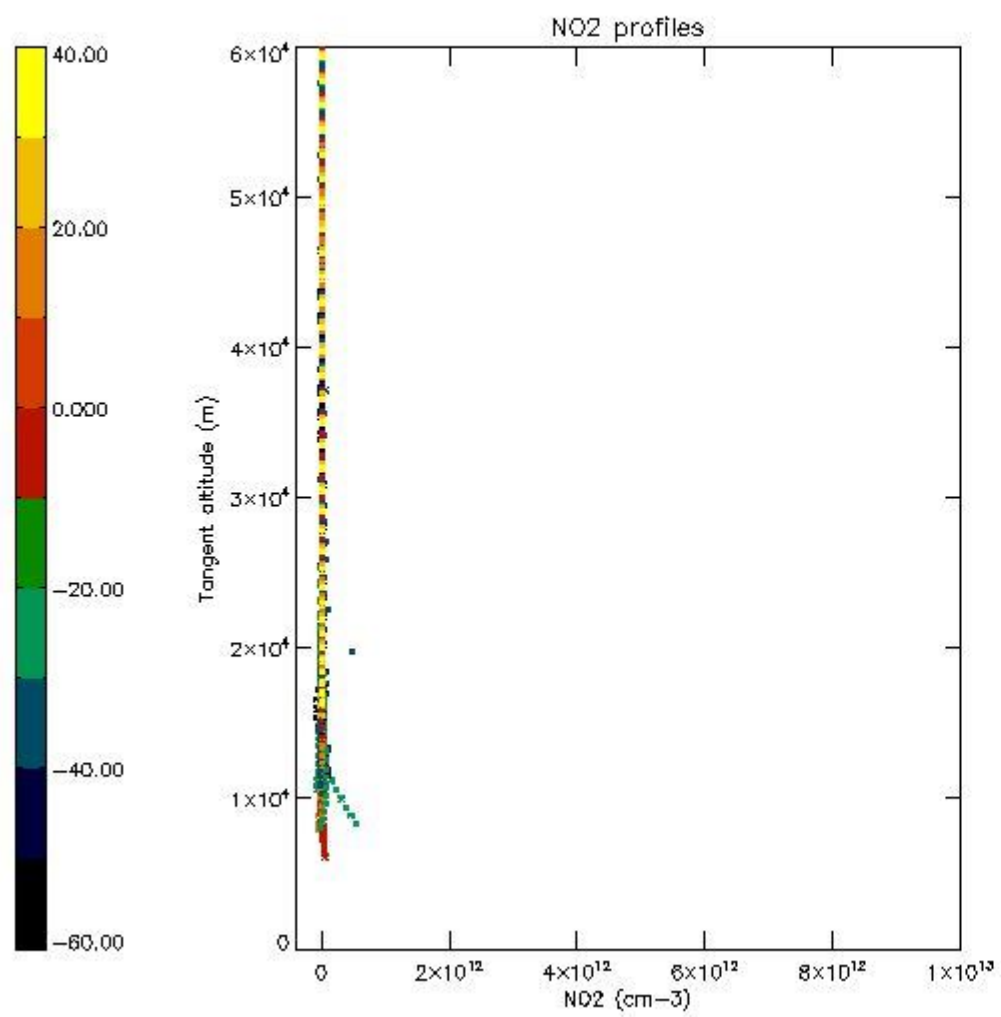
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



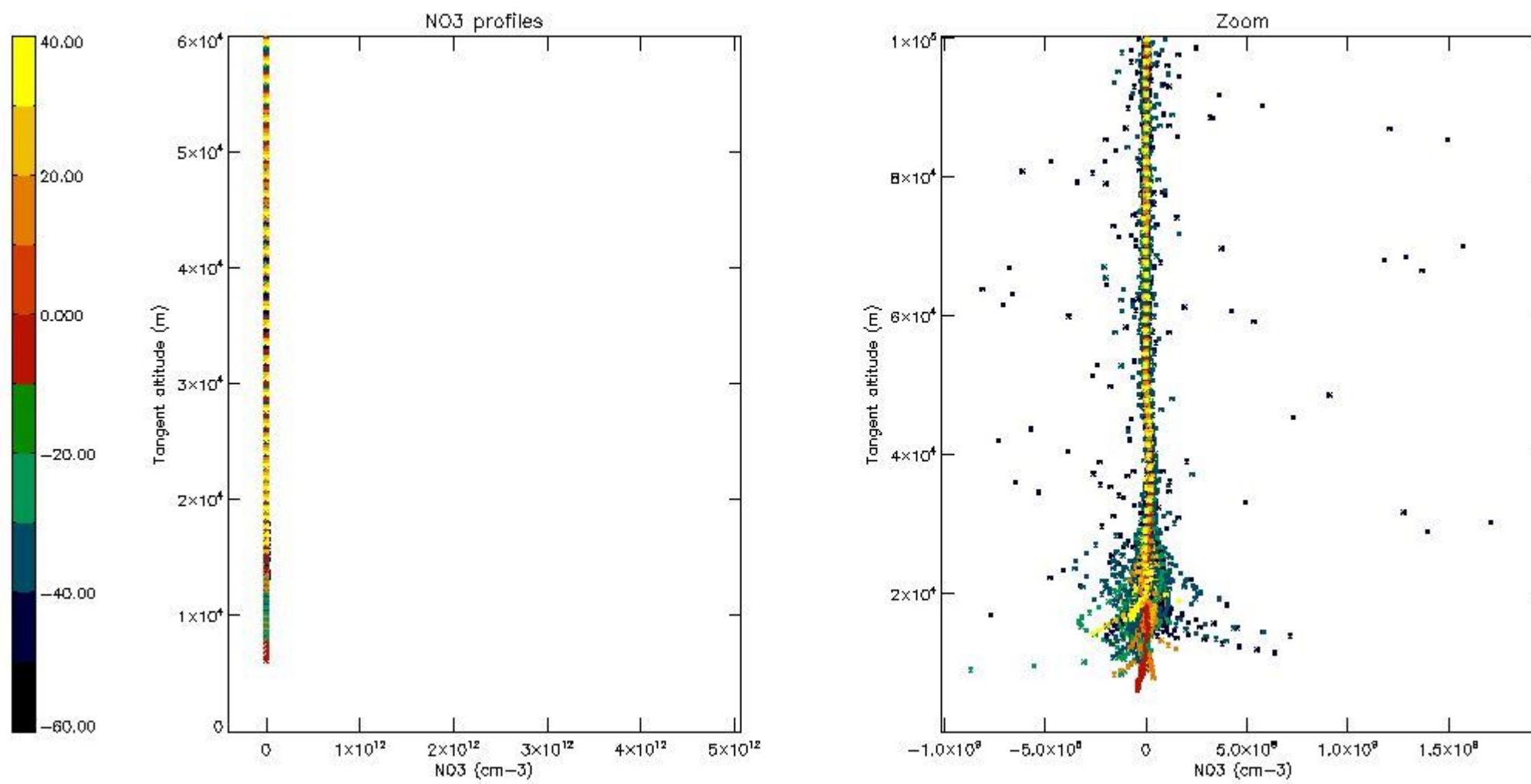
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



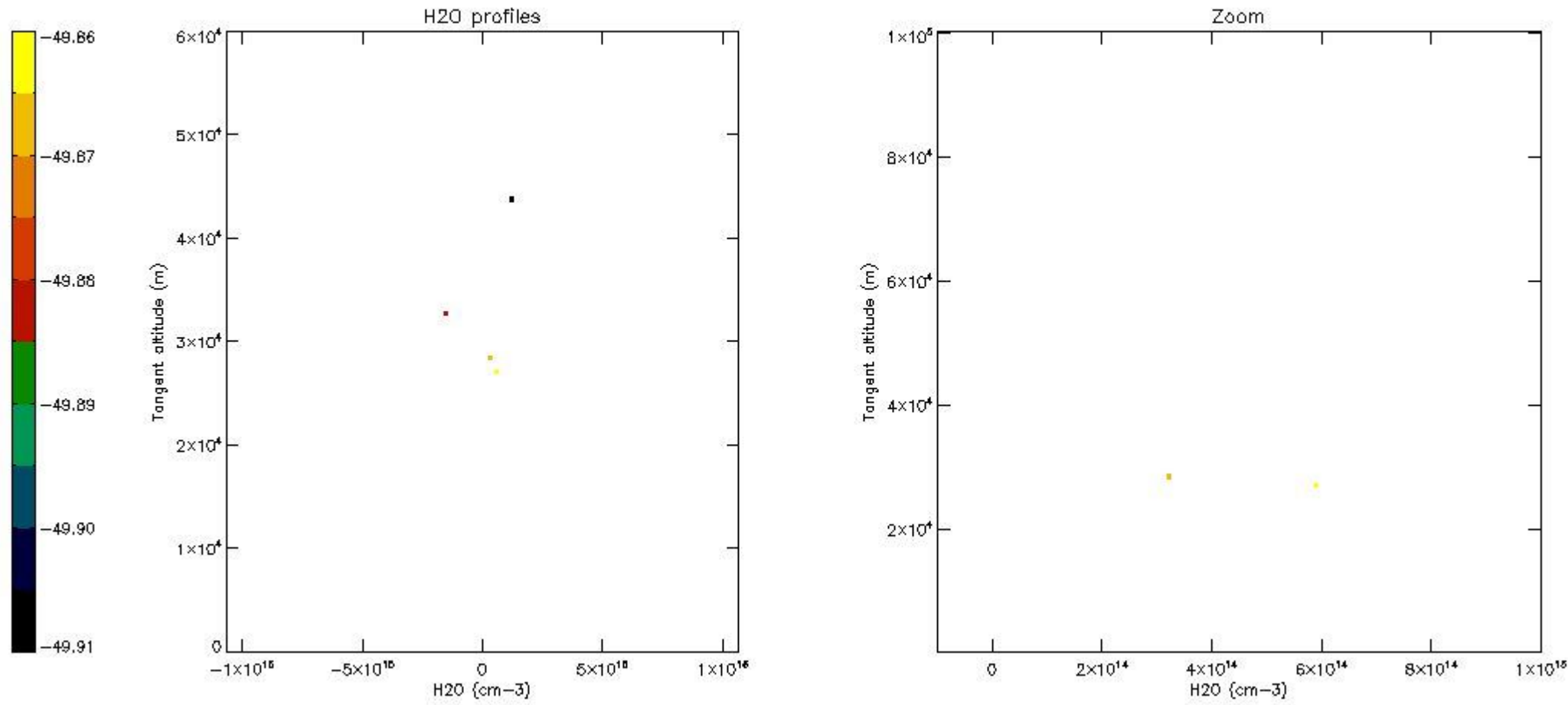
5.7 Plot NO3 profiles for all STD (dark without errors)

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	14-FEB-2006 00:17:10
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-FEB-2006 00:17:10
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-FEB-2006 00:17:10

GOMOS Level 2 Daily Report

SUMMARY

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

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[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](#)

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[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	22APR2013 15:43:38
Data source version	GOMOS/6.01
Start time of products	14-02-2006 (14FEB2006 00:00:00)
Stop time of products	15-02-2006 (15FEB2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	311
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

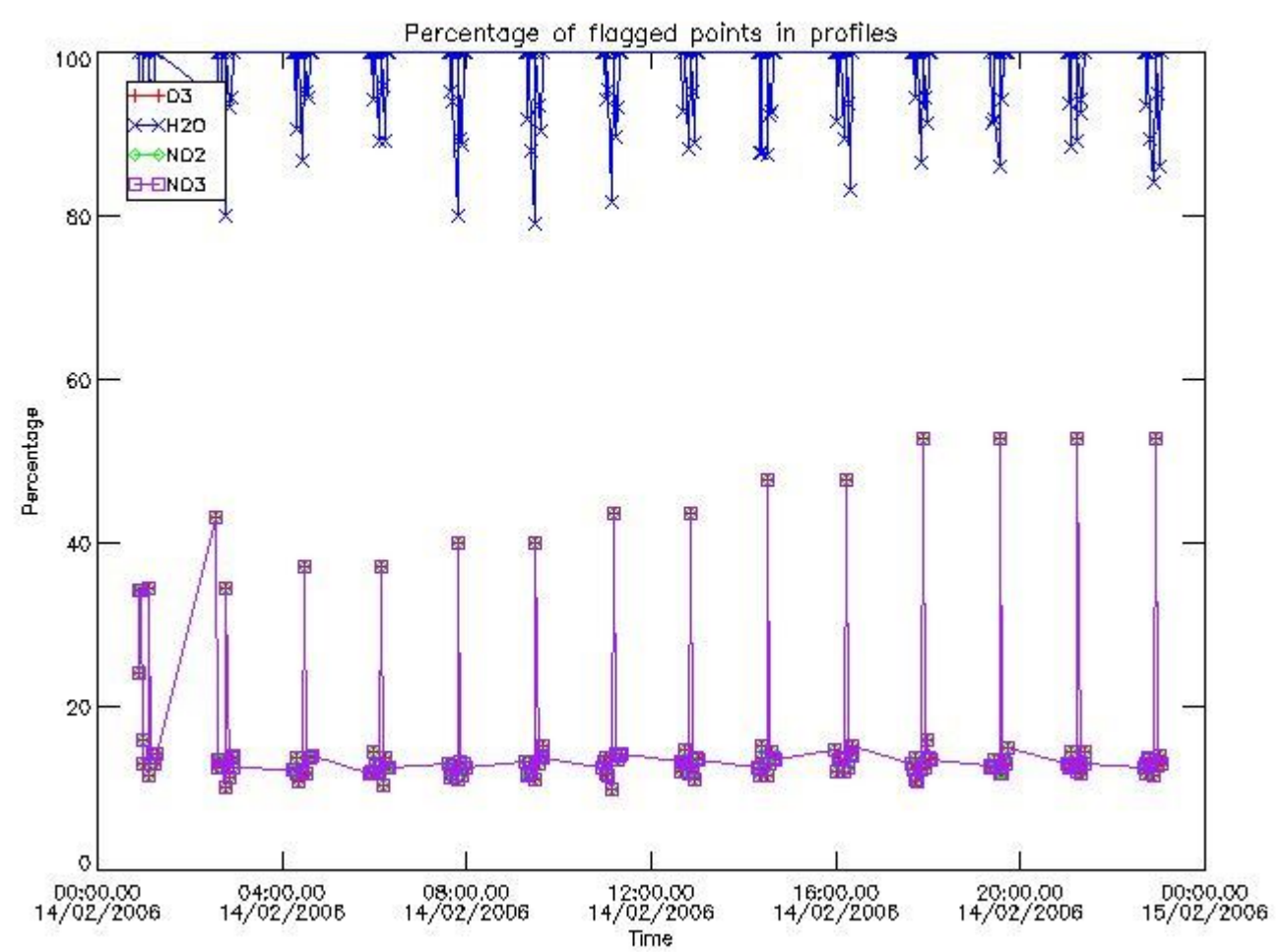
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060214_001710_000000332045_00102_20697_8688.N1	14-FEB-2006 00:17:10	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	20697	No
2	GOM_NL__2PRFIN20060214_002403_000000362045_00102_20697_8689.N1	14-FEB-2006 00:24:03	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	20697	No
3	GOM_NL__2PRFIN20060214_002910_000000332045_00102_20697_8690.N1	14-FEB-2006 00:29:10	Bright	33.000	19	50Alp Cyg	1.2460	10500.	66	20697	No
4	GOM_NL__2PRFIN20060214_003048_000000342045_00102_20697_8691.N1	14-FEB-2006 00:30:48	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	20697	No
5	GOM_NL__2PRFIN20060214_003859_000000332045_00102_20697_8692.N1	14-FEB-2006 00:38:59	Bright	33.000	168	17Zet Aql	2.9860	11000.	66	20697	No
6	GOM_NL__2PRFIN20060214_005011_000000412045_00102_20697_8693.N1	14-FEB-2006 00:50:11	Twilight	40.500	57	34Sig Sgr	2.0660	26000.	81	20697	No
7	GOM_NL__2PRFIN20060214_005255_000000392045_00102_20697_8694.N1	14-FEB-2006 00:52:55	Dark	38.500	38	20Eps Sgr	1.8360	11000.	77	20697	No
8	GOM_NL__2PRFIN20060214_005500_000000442045_00102_20697_8695.N1	14-FEB-2006 00:55:00	Dark	44.000	25	35Lam Sco	1.6200	28000.	88	20697	No
9	GOM_NL__2PRFIN20060214_005618_000000402045_00102_20697_8696.N1	14-FEB-2006 00:56:18	Dark	40.000	40	The Sco	1.8590	7100.0	80	20697	No
10	GOM_NL__2PRFIN20060214_005804_000000392045_00102_20697_8697.N1	14-FEB-2006 00:58:04	Dark	38.500	147	Alp Ara	2.8770	26000.	77	20697	No
11	GOM_NL__2PRFIN20060214_005932_000000402045_00102_20697_8698.N1	14-FEB-2006 00:59:32	Dark	39.500	141	Bet Ara	2.8400	4600.0	79	20697	No
12	GOM_NL__2PRFIN20060214_010538_000000452045_00103_20698_8677.N1	14-FEB-2006 01:05:38	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	20698	No
13	GOM_NL__2PRFIN20060214_010656_000000152045_00103_20698_8678.N1	14-FEB-2006 01:06:56	Dark	15.000	10	Bet Cen	0.61000	28000.	30	20698	No
14	GOM_NL__2PRFIN20060214_011003_000000392045_00103_20698_8679.N1	14-FEB-2006 01:10:03	Dark	39.000	12	Alp1Cru	0.77500	30000.	78	20698	No
15	GOM_NL__2PRFIN20060214_011236_000000362045_00103_20698_8680.N1	14-FEB-2006 01:12:36	Dark	36.000	29	Bet Car	1.6720	10200.	72	20698	No
16	GOM_NL__2PRFIN20060214_011512_000000402045_00103_20698_8681.N1	14-FEB-2006 01:15:12	Dark	39.500	71	lot Car	2.2460	7700.0	79	20698	No
17	GOM_NL__2PRFIN20060214_011651_000000362045_00103_20698_8682.N1	14-FEB-2006 01:16:51	Dark	36.000	46	Del Vel	1.9540	10600.	72	20698	No
18	GOM_NL__2PRFIN20060214_011914_000000392045_00103_20698_8683.N1	14-FEB-2006 01:19:14	Straylight	39.000	34	Gam2Vel	1.7930	23000.	78	20698	No
19	GOM_NL__2PRFIN20060214_012118_000000402045_00103_20698_8684.N1	14-FEB-2006 01:21:18	Straylight	39.500	70	Zet Pup	2.2460	39000.	79	20698	No
20	GOM_NL__2PRFIN20060214_012536_000000402045_00103_20698_8685.N1	14-FEB-2006 01:25:36	Straylight	39.500	132	15Rho Pup	2.8030	6900.0	79	20698	No
21	GOM_NL__2PRFIN20060214_013404_000000502045_00103_20698_8686.N1	14-FEB-2006 01:34:04	Bright	50.000	8	10Alp CMi	0.40000	6500.0	100	20698	No
22	GOM_NL__2PRFIN20060214_014022_000000402045_00103_20698_8687.N1	14-FEB-2006 01:40:22	Bright	39.500	17	78Bet Gem	1.1610	4500.0	79	20698	No
23	GOM_NL__2PRFIN20060214_015746_000000352045_00103_20698_8688.N1	14-FEB-2006 01:57:46	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	20698	No
24	GOM_NL__2PRFIN20060214_020439_000000352045_00103_20698_8689.N1	14-FEB-2006 02:04:39	Bright	34.500	89	5Alp Cep	2.4510	8000.0	69	20698	No
25	GOM_NL__2PRFIN20060214_020946_000000342045_00103_20698_8690.N1	14-FEB-2006 02:09:46	Bright	33.500	19	50Alp Cyg	1.2460	10500.	67	20698	No
26	GOM_NL__2PRFIN20060214_021124_000000342045_00103_20698_8691.N1	14-FEB-2006 02:11:24	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	20698	No
27	GOM_NL__2PRFIN20060214_021935_000000342045_00103_20698_8692.N1	14-FEB-2006 02:19:35	Bright	33.500	168	17Zet Aql	2.9860	11000.	67	20698	No
28	GOM_NL__2PRFIN20060214_023332_000000372045_00103_20698_8693.N1	14-FEB-2006 02:33:32	Dark	36.500	38	20Eps Sgr	1.8360	11000.	73	20698	No
29	GOM_NL__2PRFIN20060214_023536_000000422045_00103_20698_8694.N1	14-FEB-2006 02:35:36	Dark	41.500	25	35Lam Sco	1.6200	28000.	83	20698	No
30	GOM_NL__2PRFIN20060214_023654_000000412045_00103_20698_8695.N1	14-FEB-2006 02:36:54	Dark	40.500	40	The Sco	1.8590	7100.0	81	20698	No
31	GOM_NL__2PRFIN20060214_023841_000000382045_00103_20698_8696.N1	14-FEB-2006 02:38:41	Dark	38.000	147	Alp Ara	2.8770	26000.	76	20698	No
32	GOM_NL__2PRFIN20060214_024008_000000452045_00103_20698_8697.N1	14-FEB-2006 02:40:08	Dark	44.500	141	Bet Ara	2.8400	4600.0	89	20698	No
33	GOM_NL__2PRFIN20060214_024614_000000512045_00104_20699_8677.N1	14-FEB-2006 02:46:14	Dark	50.500	4	Alp1Cen	-0.010000	5800.0	101	20699	No
34	GOM_NL__2PRFIN20060214_024733_000000152045_00104_20699_8678.N1	14-FEB-2006 02:47:33	Dark	15.000	10	Bet Cen	0.61000	28000.	30	20699	No
35	GOM_NL__2PRFIN20060214_025040_000000452045_00104_20699_8679.N1	14-FEB-2006 02:50:40	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	20699	No
36	GOM_NL__2PRFIN20060214_025312_000000372045_00104_20699_8680.N1	14-FEB-2006 02:53:12	Dark	37.000	29	Bet Car	1.6720	10200.	74	20699	No
37	GOM_NL__2PRFIN20060214_025548_000000372045_00104_20699_8681.N1	14-FEB-2006 02:55:48	Dark	36.500	71	lot Car	2.2460	7700.0	73	20699	No
38	GOM_NL__2PRFIN20060214_025727_000000412045_00104_20699_8682.N1	14-FEB-2006 02:57:27	Dark	41.000	46	Del Vel	1.9540	10600.	82	20699	No
39	GOM_NL__2PRFIN20060214_025950_000000372045_00104_20699_8683.N1	14-FEB-2006 02:59:50	Straylight	36.500	34	Gam2Vel	1.7930	23000.	73	20699	No
40	GOM_NL__2PRFIN20060214_030155_000000382045_00104_20699_8684.N1	14-FEB-2006 03:01:55	Straylight	38.000	70	Zet Pup	2.2460	39000.	76	20699	No
41	GOM_NL__2PRFIN20060214_030612_000000382045_00104_20699_8685.N1	14-FEB-2006 03:06:12	Straylight	37.500	132	15Rho Pup	2.8030	6900.0	75	20699	No
42	GOM_NL__2PRFIN20060214_031440_000000432045_00104_20699_8686.N1	14-FEB-2006 03:14:40	Bright	43.000	8	10Alp CMi	0.40000	6500.0	86	20699	No

279	GOM_NL__2PRFIN20060214_212226_000000362045_00115_20710_8702.N1	14-FEB-2006 21:22:26	Dark	35.500	71	lot Car	2.2460	7700.0	71	20710	No
280	GOM_NL__2PRFIN20060214_212404_000000392045_00115_20710_8703.N1	14-FEB-2006 21:24:04	Dark	39.000	46	Del Vel	1.9540	10600.	78	20710	No
281	GOM_NL__2PRFIN20060214_212627_000000412045_00115_20710_8704.N1	14-FEB-2006 21:26:27	Straylight	41.000	34	Gam2Vel	1.7930	23000.	82	20710	No
282	GOM_NL__2PRFIN20060214_212832_000000382045_00115_20710_8705.N1	14-FEB-2006 21:28:32	Straylight	37.500	70	Zet Pup	2.2460	39000.	75	20710	No
283	GOM_NL__2PRFIN20060214_213249_000000402045_00115_20710_8706.N1	14-FEB-2006 21:32:49	Straylight	39.500	132	15Rho Pup	2.8030	6900.0	79	20710	No
284	GOM_NL__2PRFIN20060214_214117_000000432045_00115_20710_8707.N1	14-FEB-2006 21:41:17	Bright	42.500	8	10Alp CMi	0.40000	6500.0	85	20710	No
285	GOM_NL__2PRFIN20060214_214734_000000372045_00115_20710_8708.N1	14-FEB-2006 21:47:34	Bright	36.500	17	78Bet Gem	1.1610	4500.0	73	20710	No
286	GOM_NL__2PRFIN20060214_220457_000000362045_00115_20710_8709.N1	14-FEB-2006 22:04:57	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	20710	No
287	GOM_NL__2PRFIN20060214_221153_000000352045_00115_20710_8710.N1	14-FEB-2006 22:11:53	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	20710	No
288	GOM_NL__2PRFIN20060214_221700_000000372045_00115_20710_8711.N1	14-FEB-2006 22:17:00	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	20710	No
289	GOM_NL__2PRFIN20060214_221837_000000362045_00115_20710_8712.N1	14-FEB-2006 22:18:37	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	20710	No
290	GOM_NL__2PRFIN20060214_222649_000000342045_00115_20710_8713.N1	14-FEB-2006 22:26:49	Bright	34.000	168	17Zet Aql	2.9860	11000.	68	20710	No
291	GOM_NL__2PRFIN20060214_223802_000000422045_00115_20710_8714.N1	14-FEB-2006 22:38:02	Twilight	41.500	57	34Sig Sgr	2.0660	26000.	83	20710	No
292	GOM_NL__2PRFIN20060214_224047_000000412045_00115_20710_8715.N1	14-FEB-2006 22:40:47	Dark	41.000	38	20Eps Sgr	1.8360	11000.	82	20710	No
293	GOM_NL__2PRFIN20060214_224254_000000432045_00115_20710_8716.N1	14-FEB-2006 22:42:54	Dark	43.000	25	35Lam Sco	1.6200	28000.	86	20710	No
294	GOM_NL__2PRFIN20060214_224411_000000392045_00115_20710_8717.N1	14-FEB-2006 22:44:11	Dark	39.000	40	The Sco	1.8590	7100.0	78	20710	No
295	GOM_NL__2PRFIN20060214_224557_000000372045_00115_20710_8718.N1	14-FEB-2006 22:45:57	Dark	37.000	147	Alp Ara	2.8770	26000.	74	20710	No
296	GOM_NL__2PRFIN20060214_224724_000000382045_00115_20710_8719.N1	14-FEB-2006 22:47:24	Dark	38.000	141	Bet Ara	2.8400	4600.0	76	20710	No
297	GOM_NL__2PRFIN20060214_225332_000000452045_00116_20711_8698.N1	14-FEB-2006 22:53:32	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	20711	No
298	GOM_NL__2PRFIN20060214_225451_000000102045_00116_20711_8699.N1	14-FEB-2006 22:54:51	Dark	10.000	10	Bet Cen	0.61000	28000.	20	20711	No
299	GOM_NL__2PRFIN20060214_225757_000000402045_00116_20711_8700.N1	14-FEB-2006 22:57:57	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	20711	No
300	GOM_NL__2PRFIN20060214_230025_000000372045_00116_20711_8701.N1	14-FEB-2006 23:00:25	Dark	36.500	29	Bet Car	1.6720	10200.	73	20711	No
301	GOM_NL__2PRFIN20060214_230302_000000402045_00116_20711_8702.N1	14-FEB-2006 23:03:02	Dark	39.500	71	lot Car	2.2460	7700.0	79	20711	No
302	GOM_NL__2PRFIN20060214_230440_000000392045_00116_20711_8703.N1	14-FEB-2006 23:04:40	Dark	39.000	46	Del Vel	1.9540	10600.	78	20711	No
303	GOM_NL__2PRFIN20060214_230703_000000402045_00116_20711_8704.N1	14-FEB-2006 23:07:03	Straylight	39.500	34	Gam2Vel	1.7930	23000.	79	20711	No
304	GOM_NL__2PRFIN20060214_230908_000000382045_00116_20711_8705.N1	14-FEB-2006 23:09:08	Straylight	37.500	70	Zet Pup	2.2460	39000.	75	20711	No
305	GOM_NL__2PRFIN20060214_231325_000000412045_00116_20711_8706.N1	14-FEB-2006 23:13:25	Straylight	40.500	132	15Rho Pup	2.8030	6900.0	81	20711	No
306	GOM_NL__2PRFIN20060214_232153_000000462045_00116_20711_8707.N1	14-FEB-2006 23:21:53	Bright	46.000	8	10Alp CMi	0.40000	6500.0	92	20711	No
307	GOM_NL__2PRFIN20060214_232810_000000382045_00116_20711_8708.N1	14-FEB-2006 23:28:10	Bright	38.000	17	78Bet Gem	1.1610	4500.0	76	20711	No
308	GOM_NL__2PRFIN20060214_234533_000000342045_00116_20711_8709.N1	14-FEB-2006 23:45:33	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	20711	No
309	GOM_NL__2PRFIN20060214_235229_000000362045_00116_20711_8710.N1	14-FEB-2006 23:52:29	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	20711	No
310	GOM_NL__2PRFIN20060214_235736_000000342045_00116_20711_8711.N1	14-FEB-2006 23:57:36	Bright	33.500	19	50Alp Cyg	1.2460	10500.	67	20711	No
311	GOM_NL__2PRFIN20060214_235913_000000342045_00116_20711_8712.N1	14-FEB-2006 23:59:13	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	20711	No

3. Quality information per product

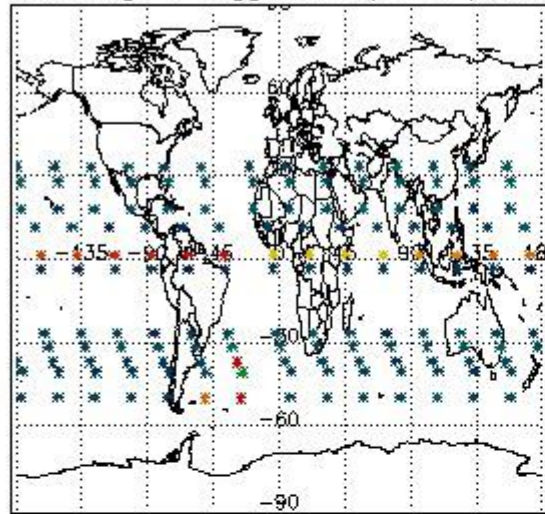
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

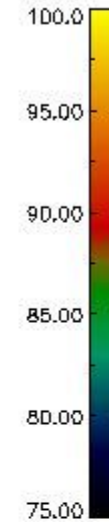
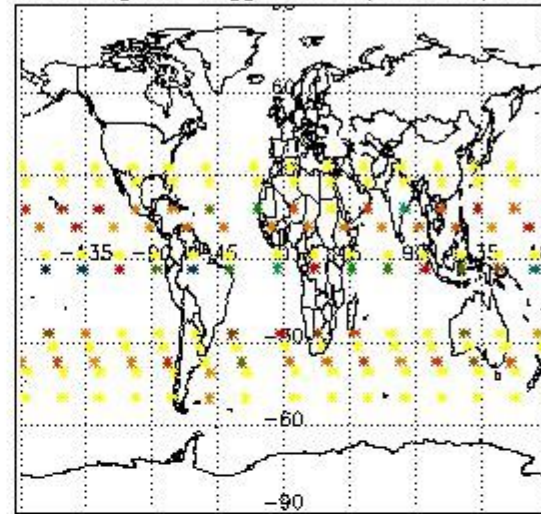


3.2 Plot quality information per product (world map)

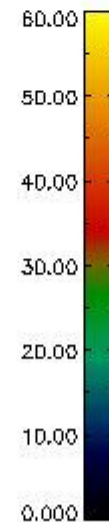
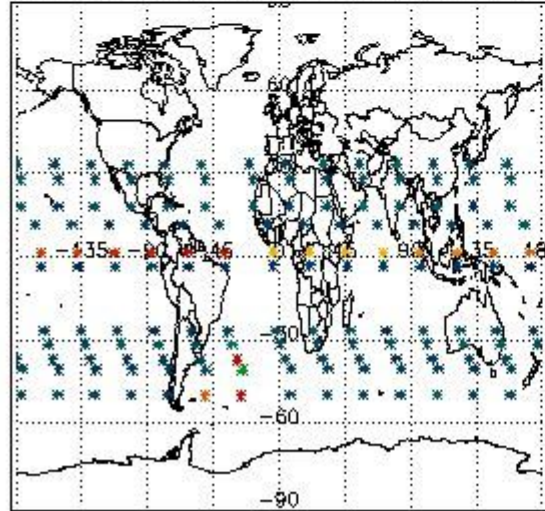
Percentage of flagged data per O3 profile



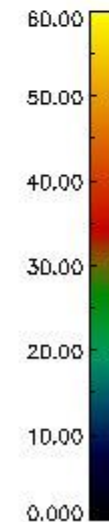
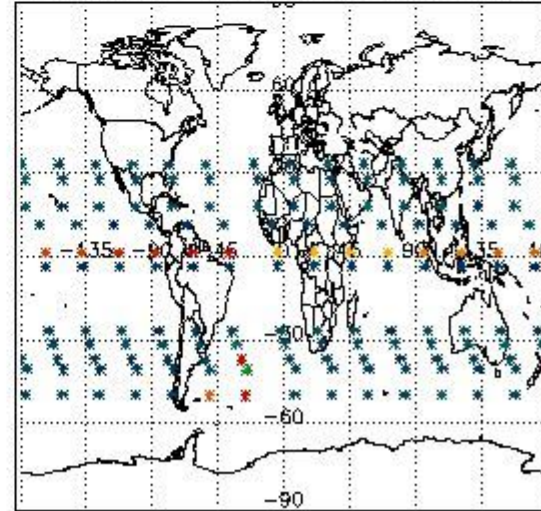
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

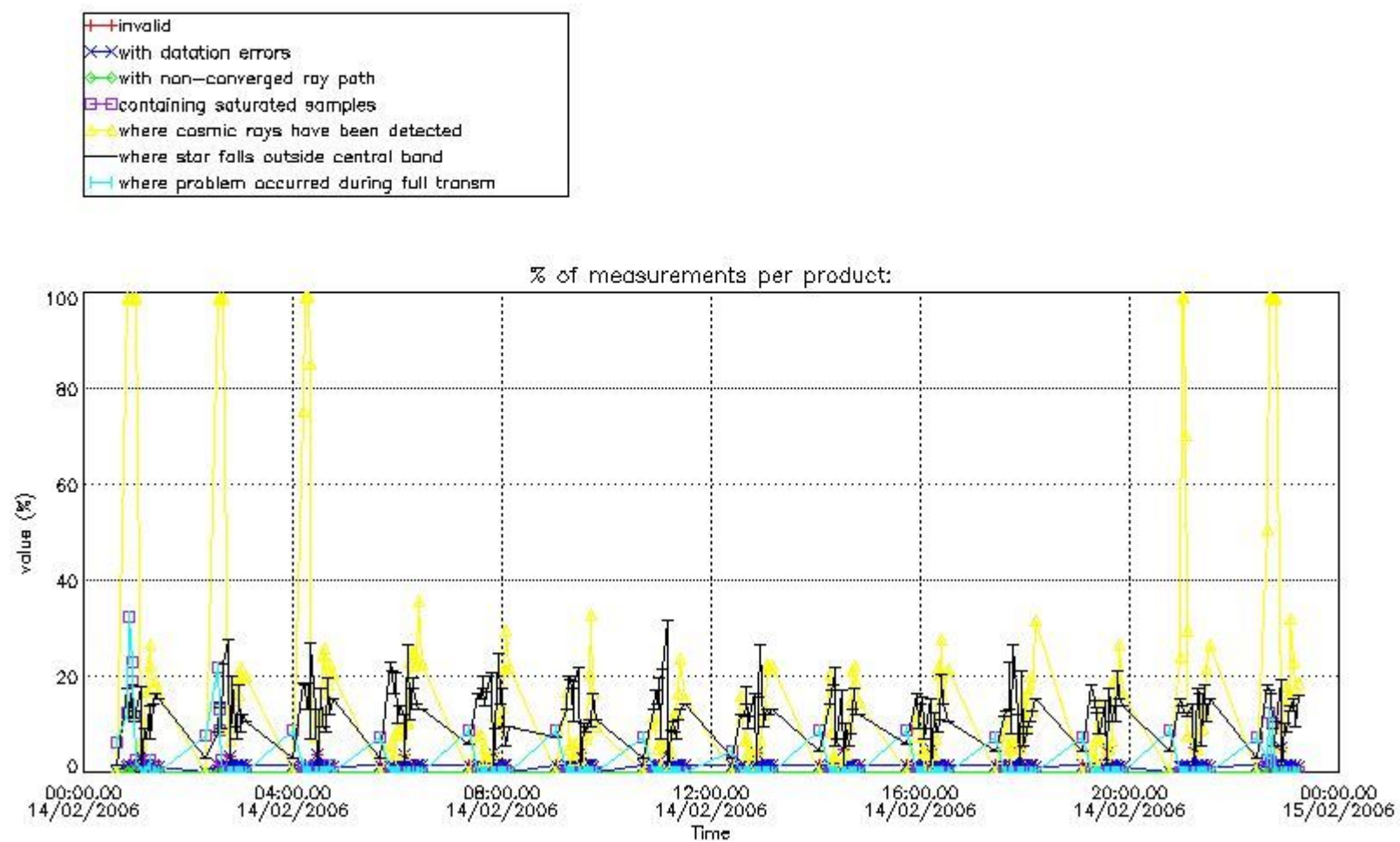


4. Level 1 quality information per product

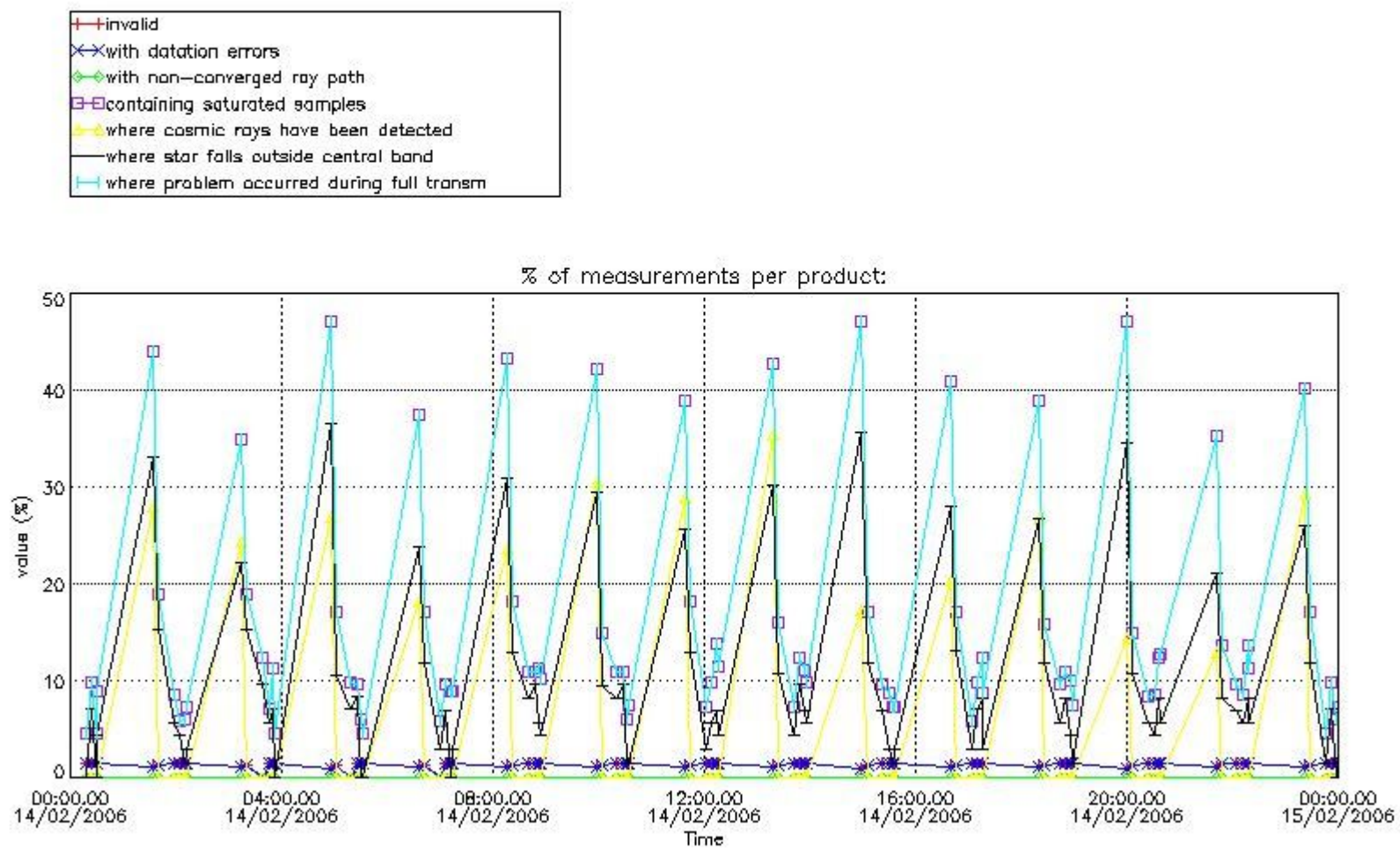
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



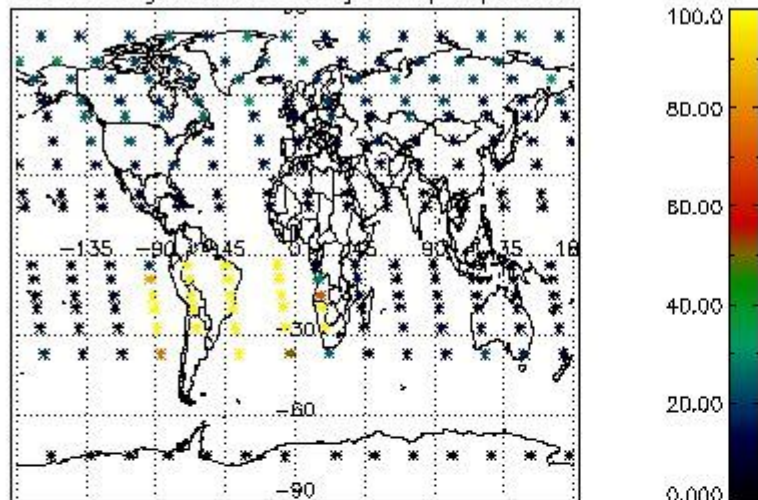
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



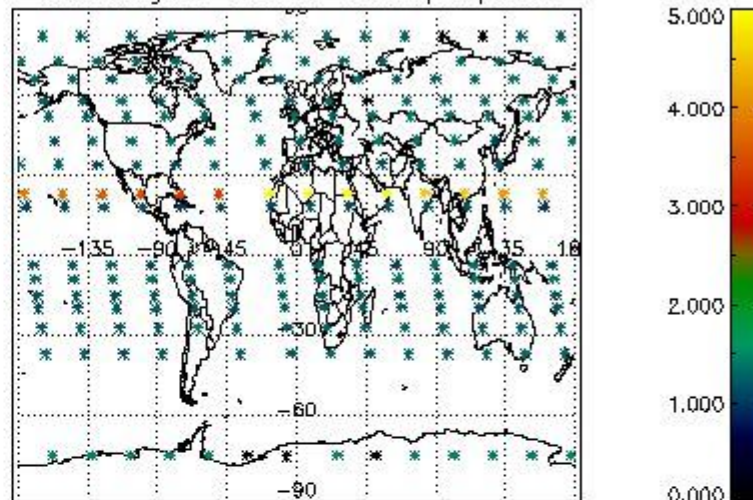
4.2 Plot quality information per product coming from level 1b processing (world map)

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

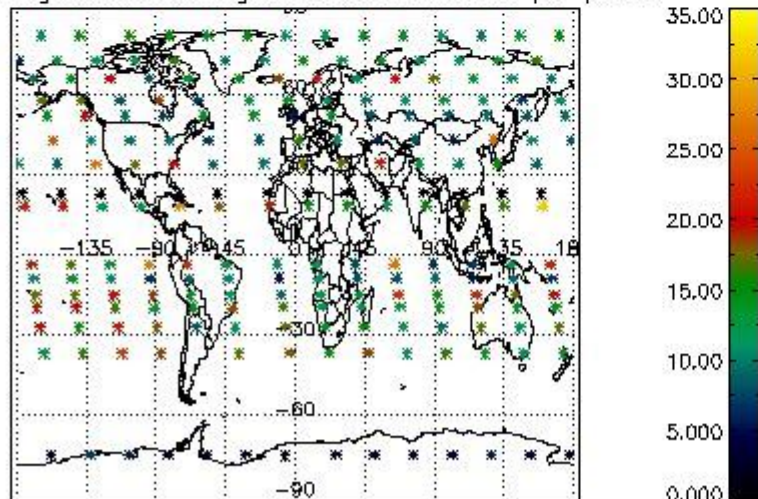
Percentage of cosmic ray hits per profile



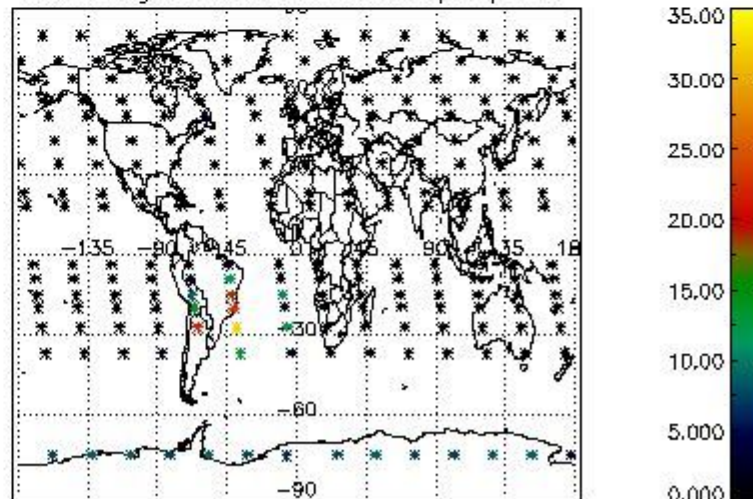
Percentage of datation errors per profile



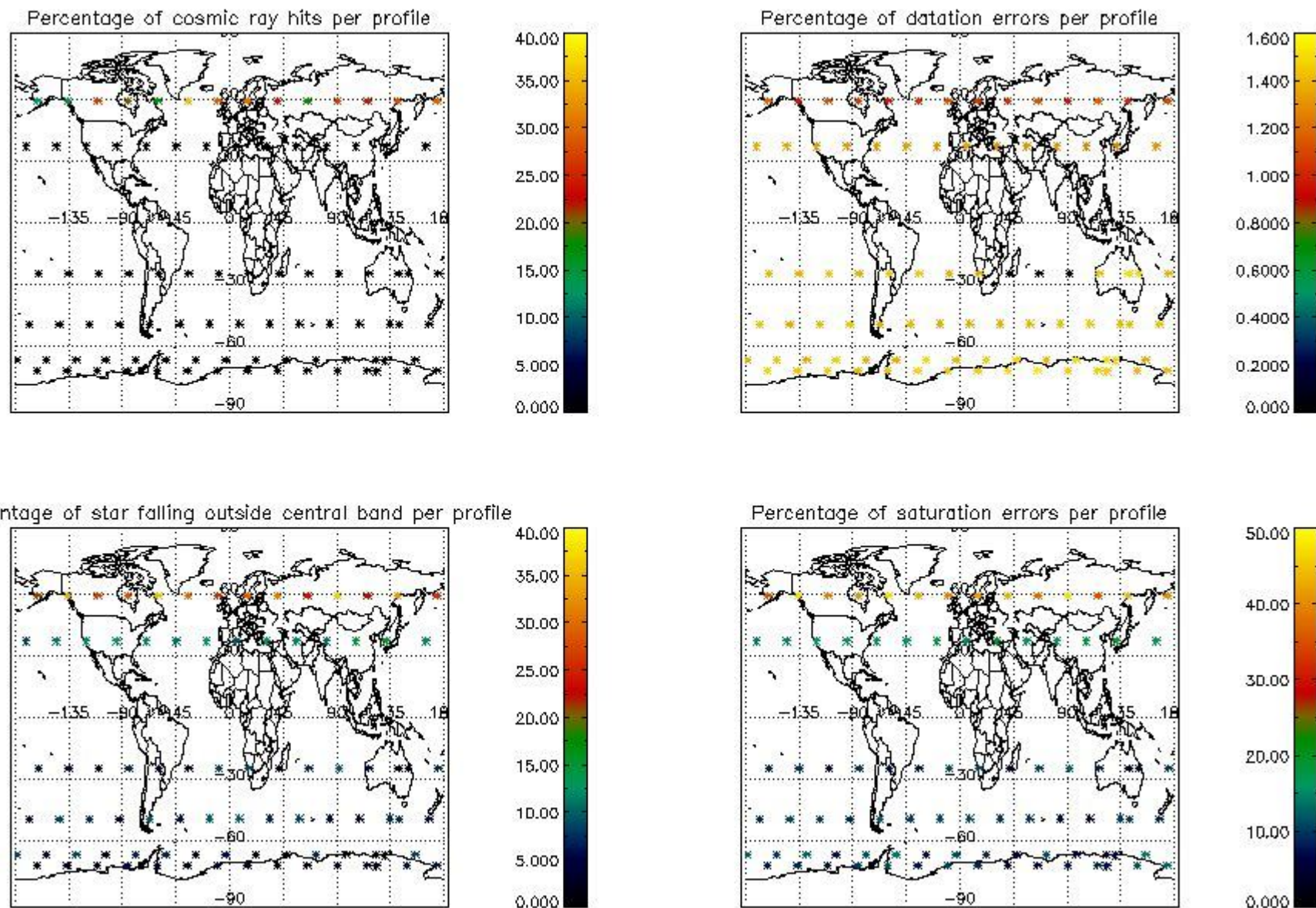
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

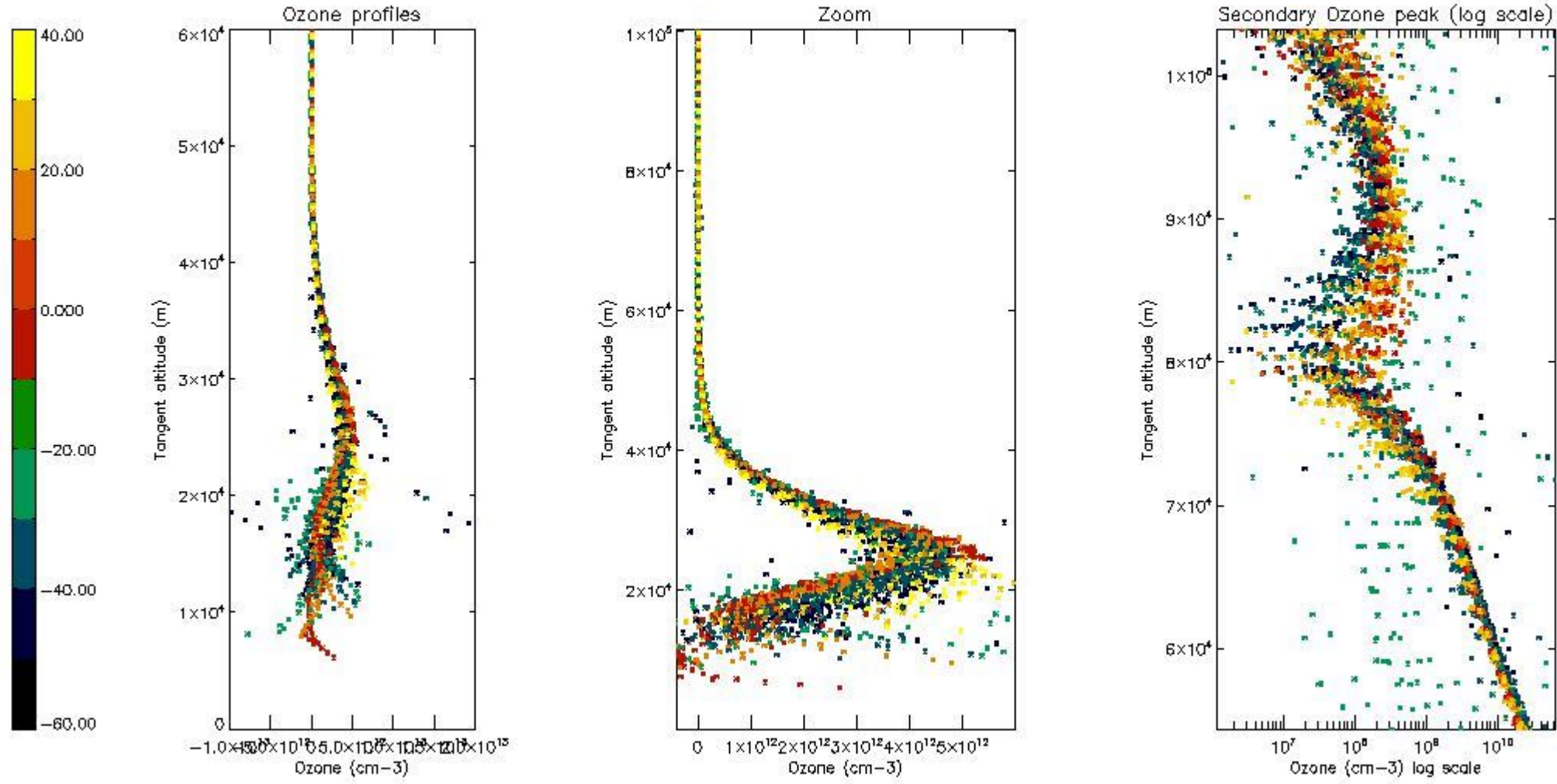
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	51
STD < 20	29

STD < 10	24
STD < 5	16

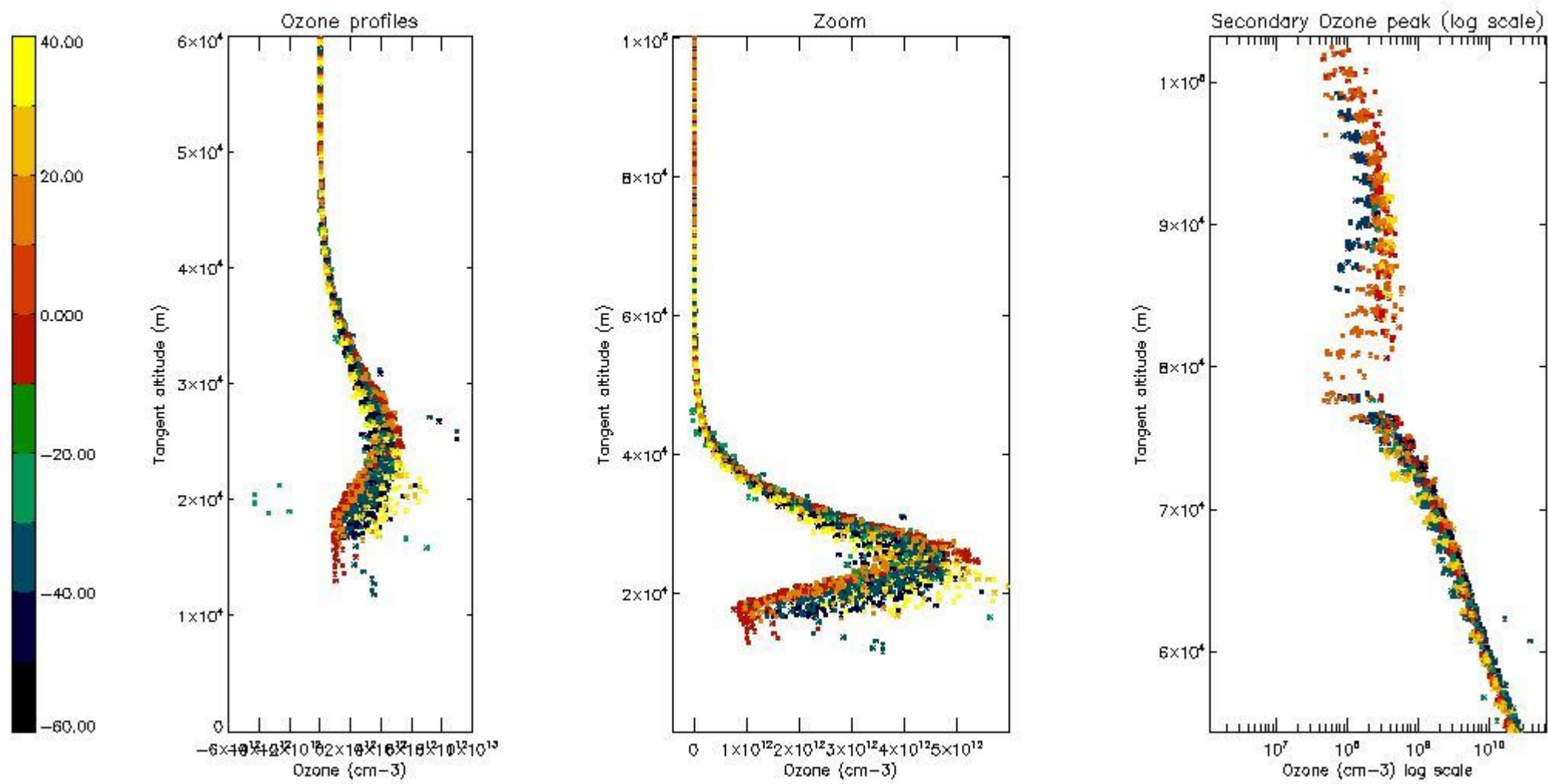
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



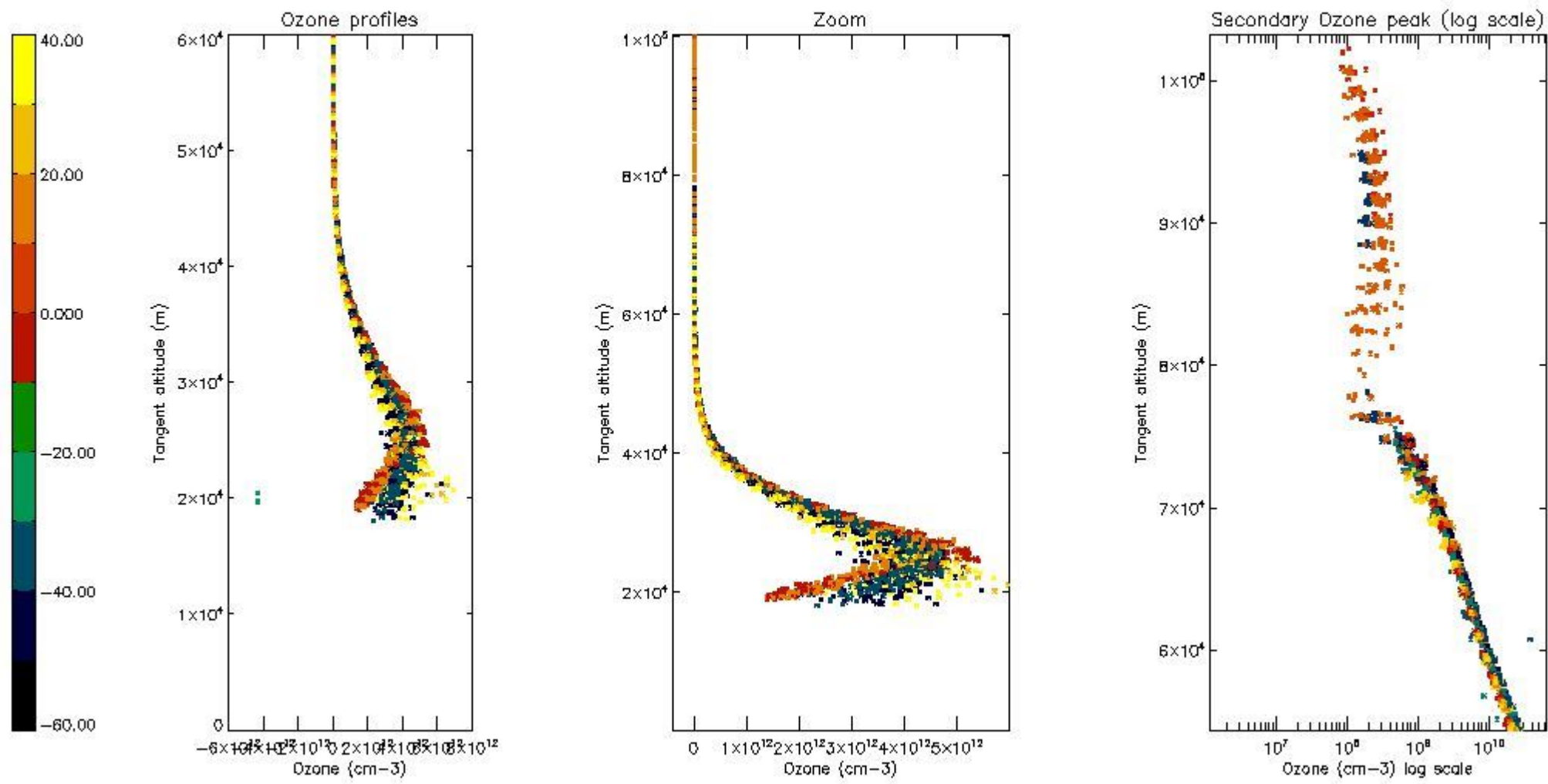
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



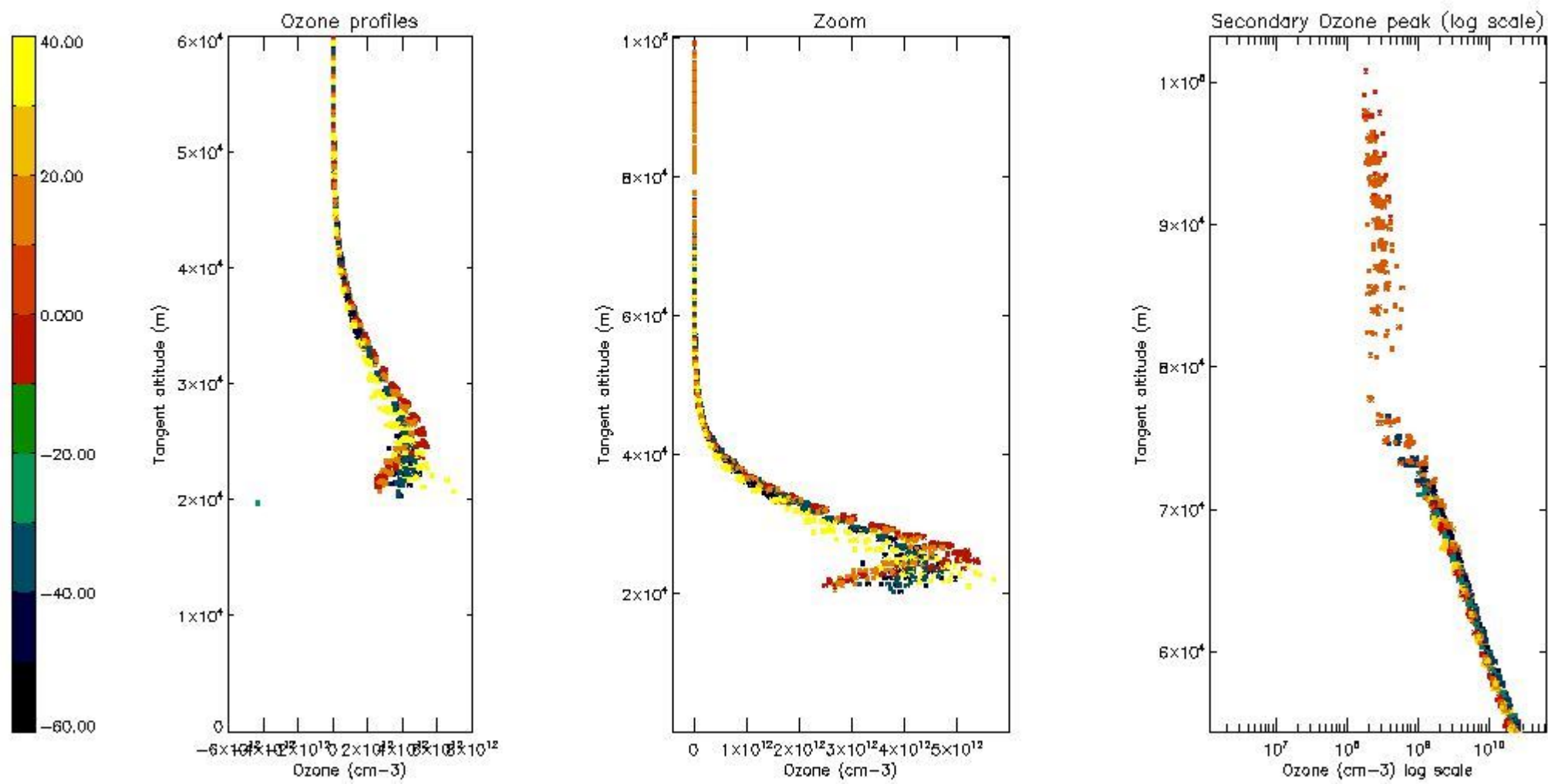
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



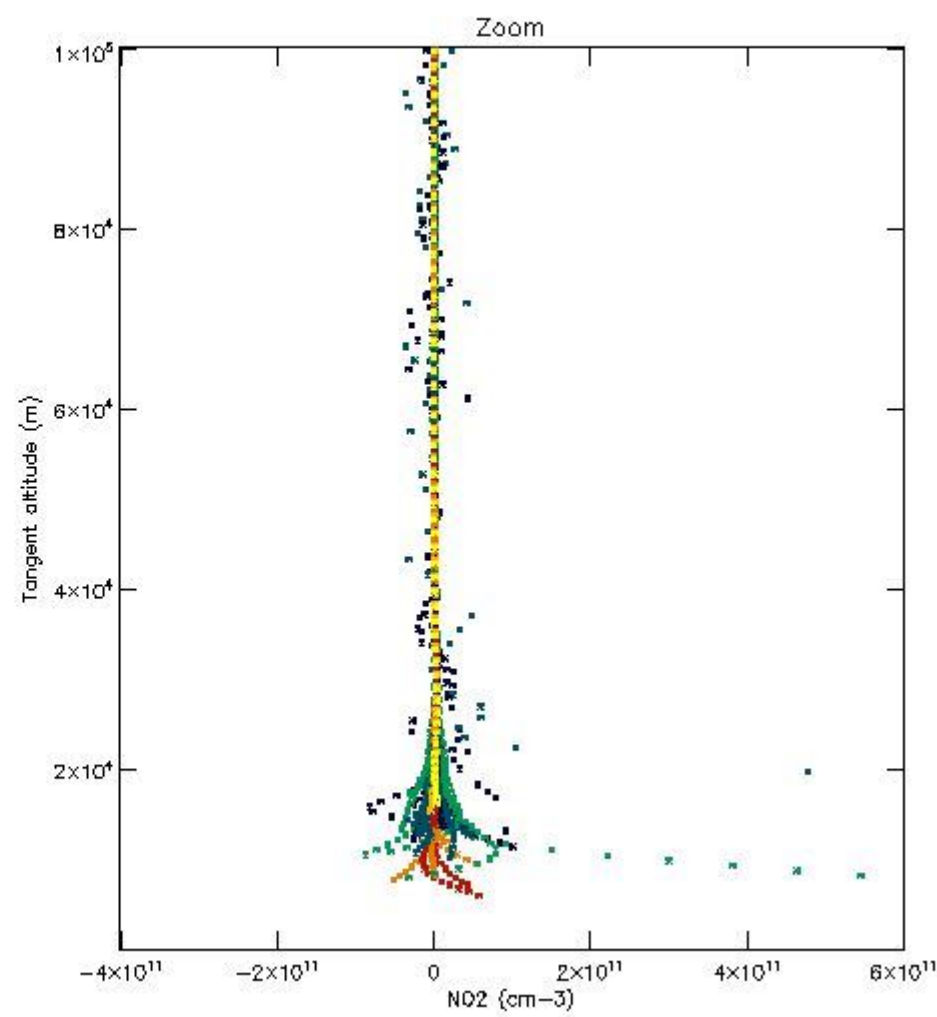
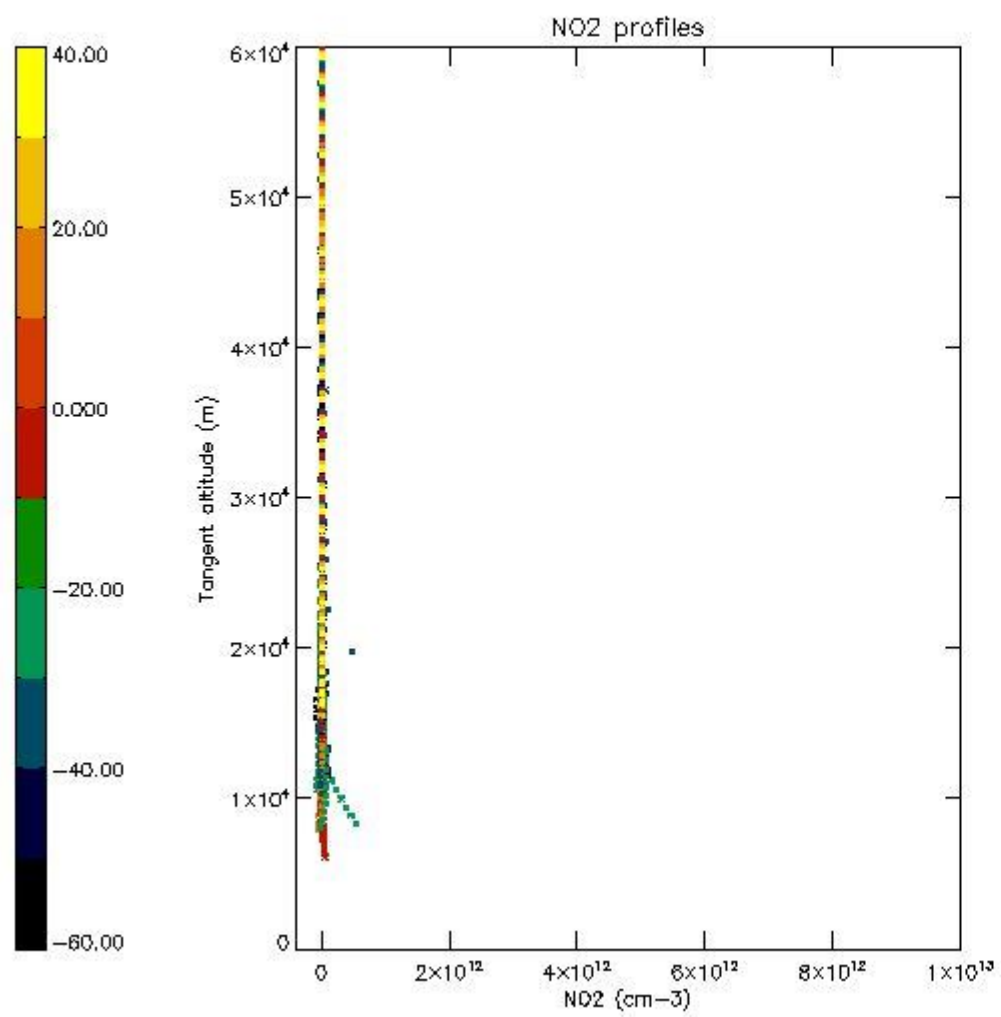
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



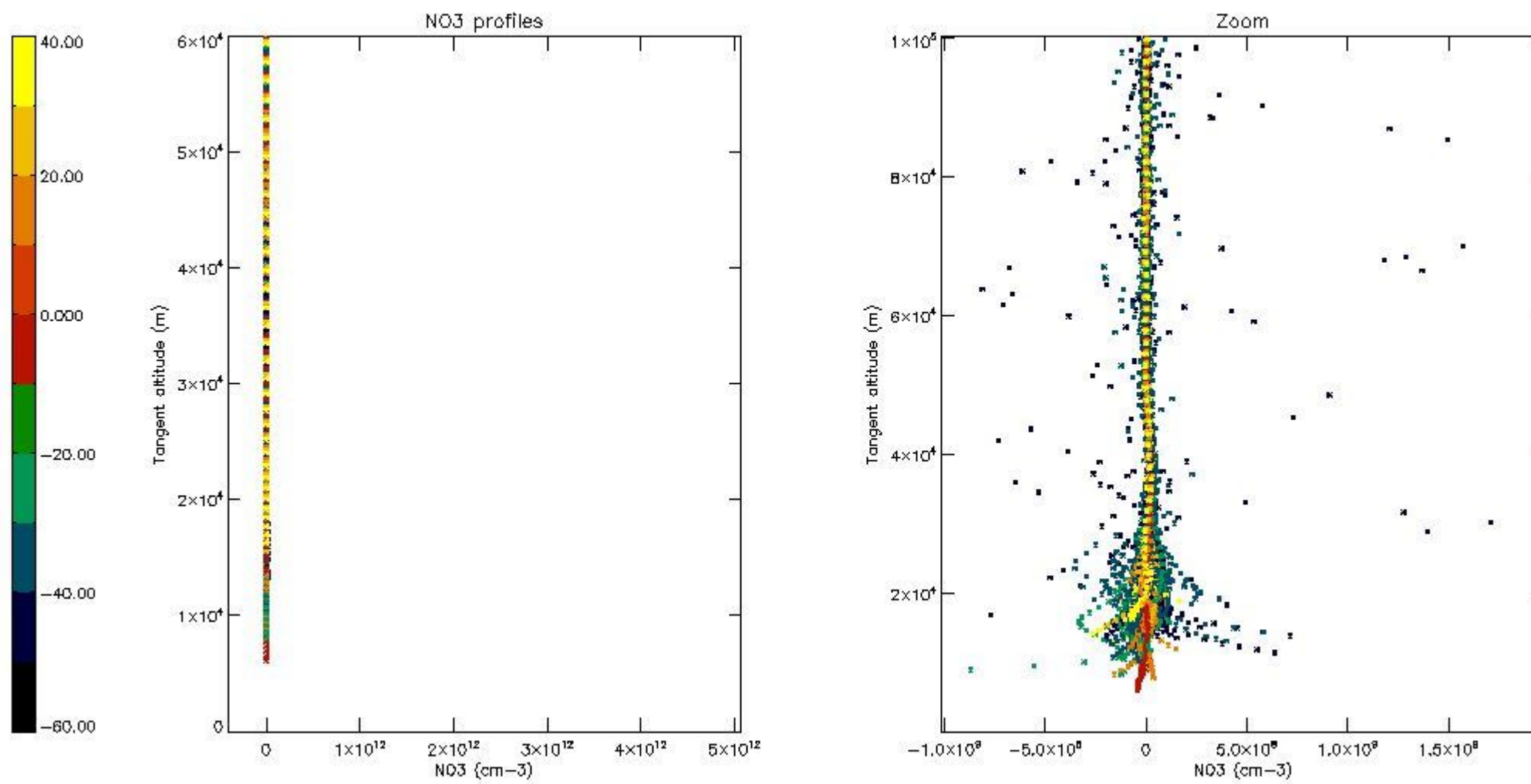
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



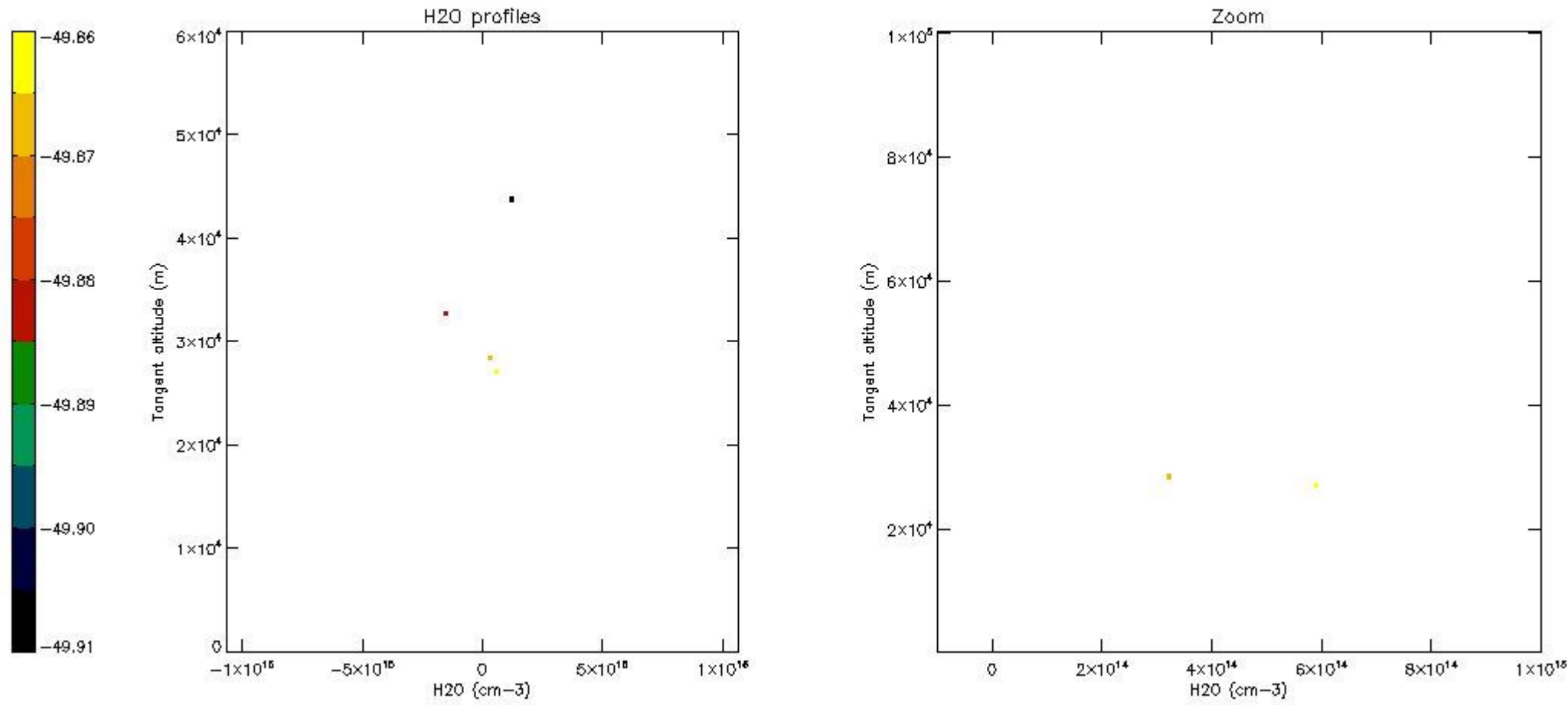
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

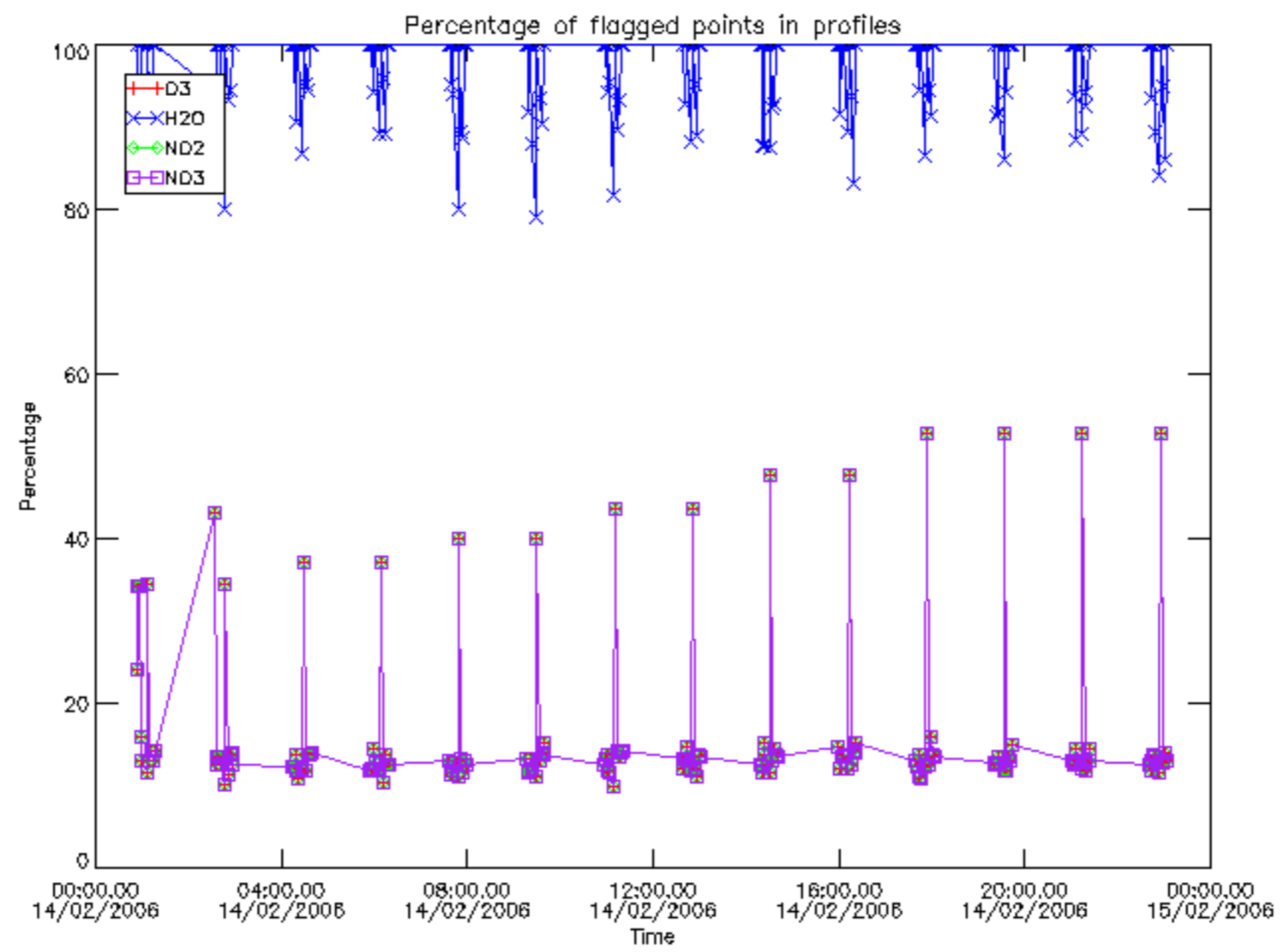
The colorbar represents the latitude.



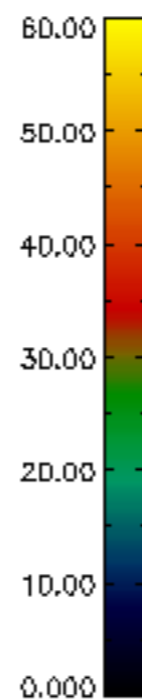
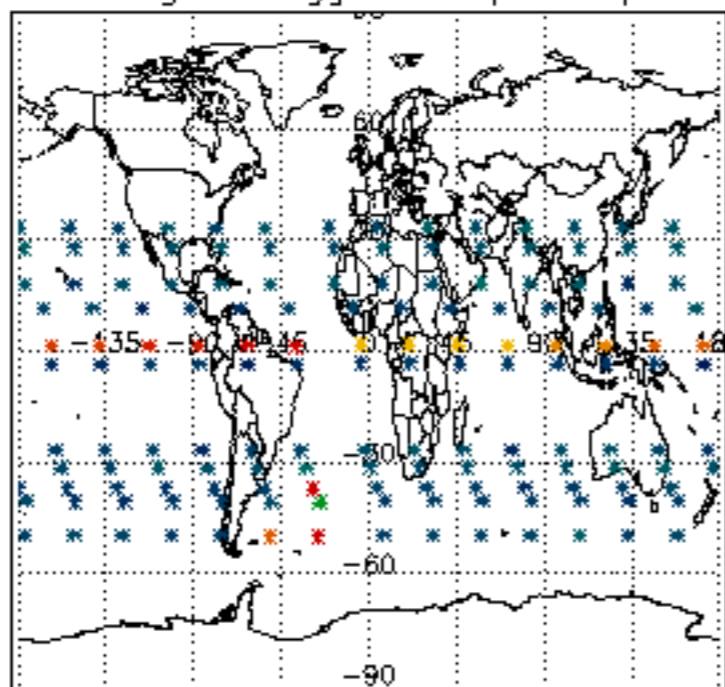
6. Auxiliary Data Files used for the production reported in section 2

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.

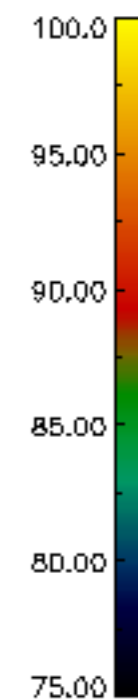
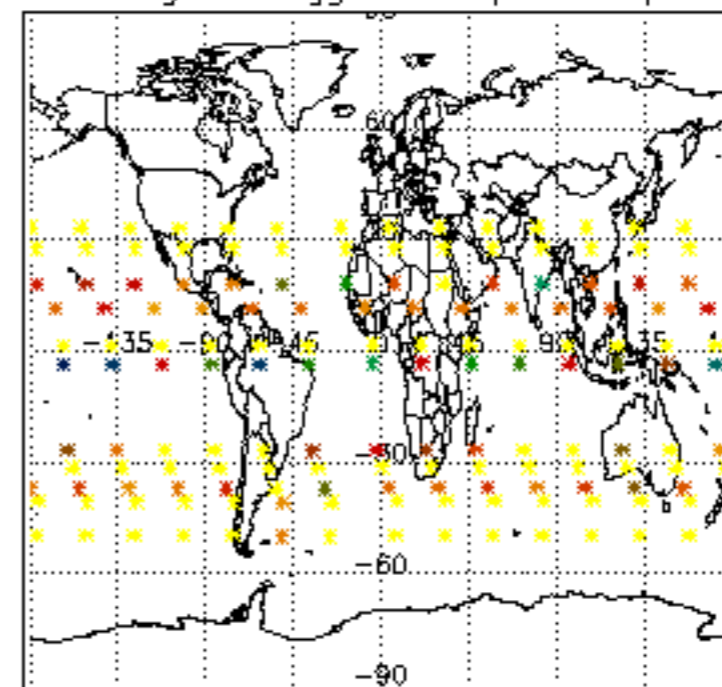
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	14-FEB-2006 00:17:10
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-FEB-2006 00:17:10
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-FEB-2006 00:17:10



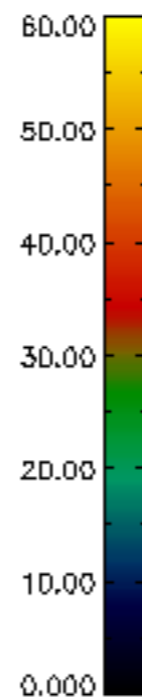
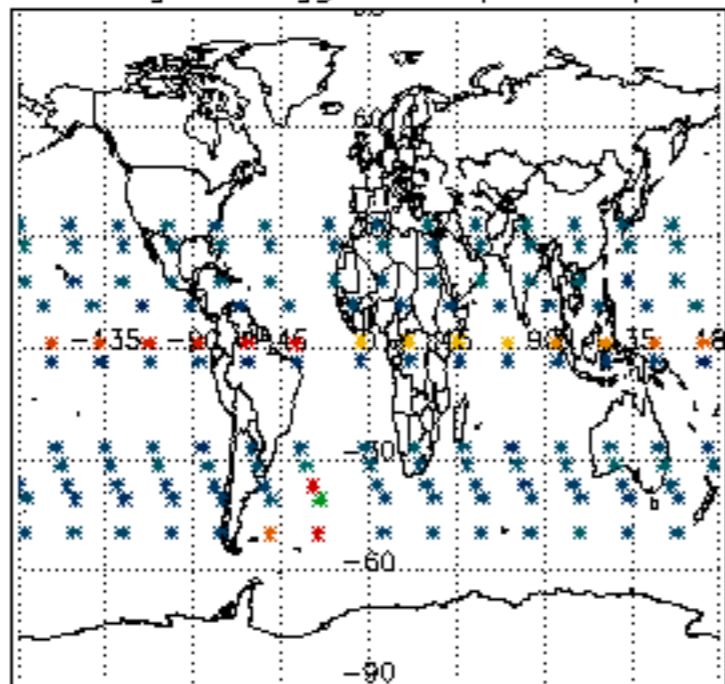
Percentage of flagged data per D3 profile



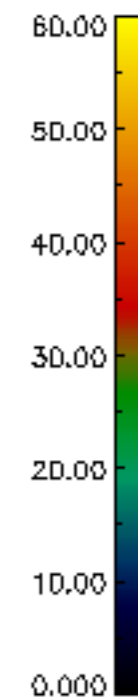
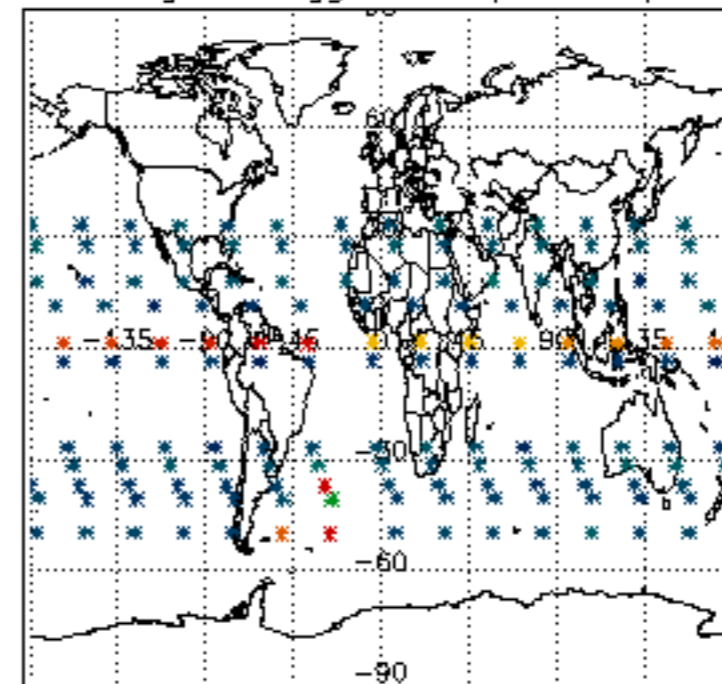
Percentage of flagged data per H2O profile

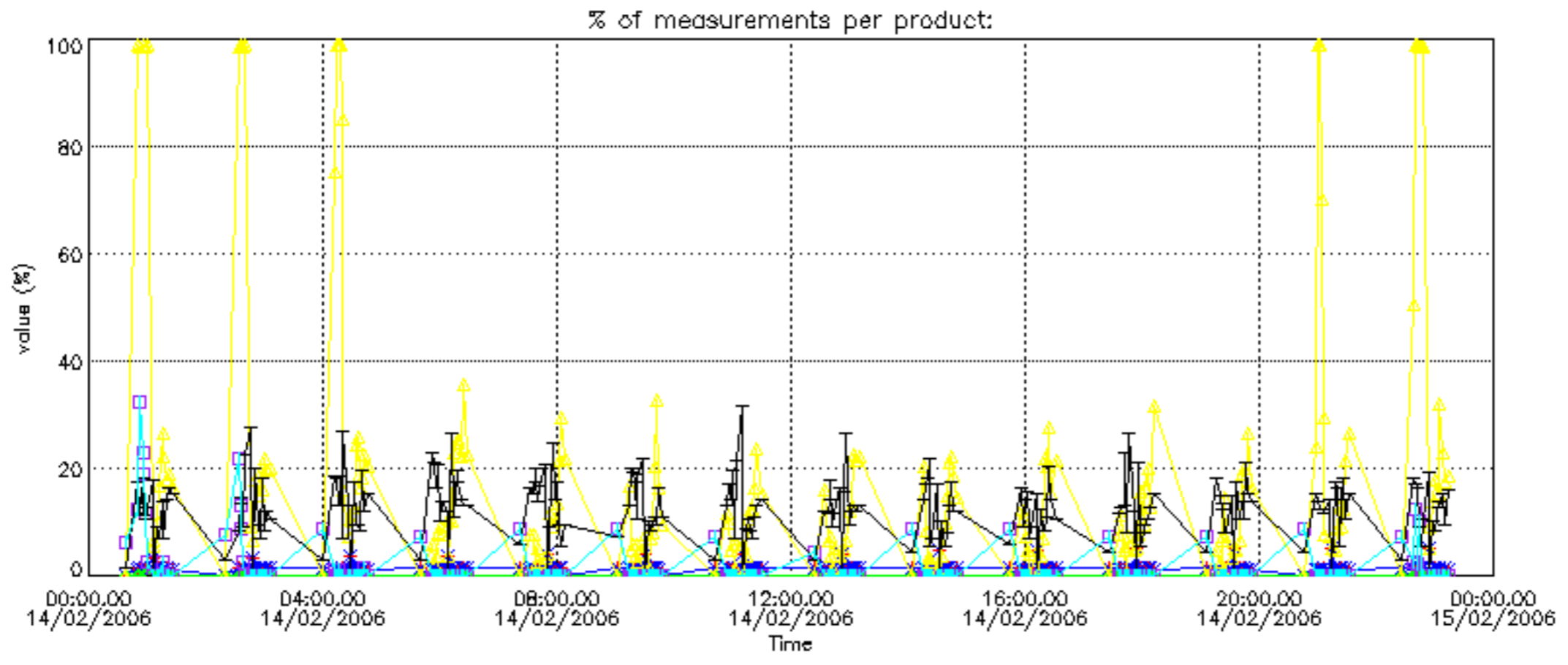


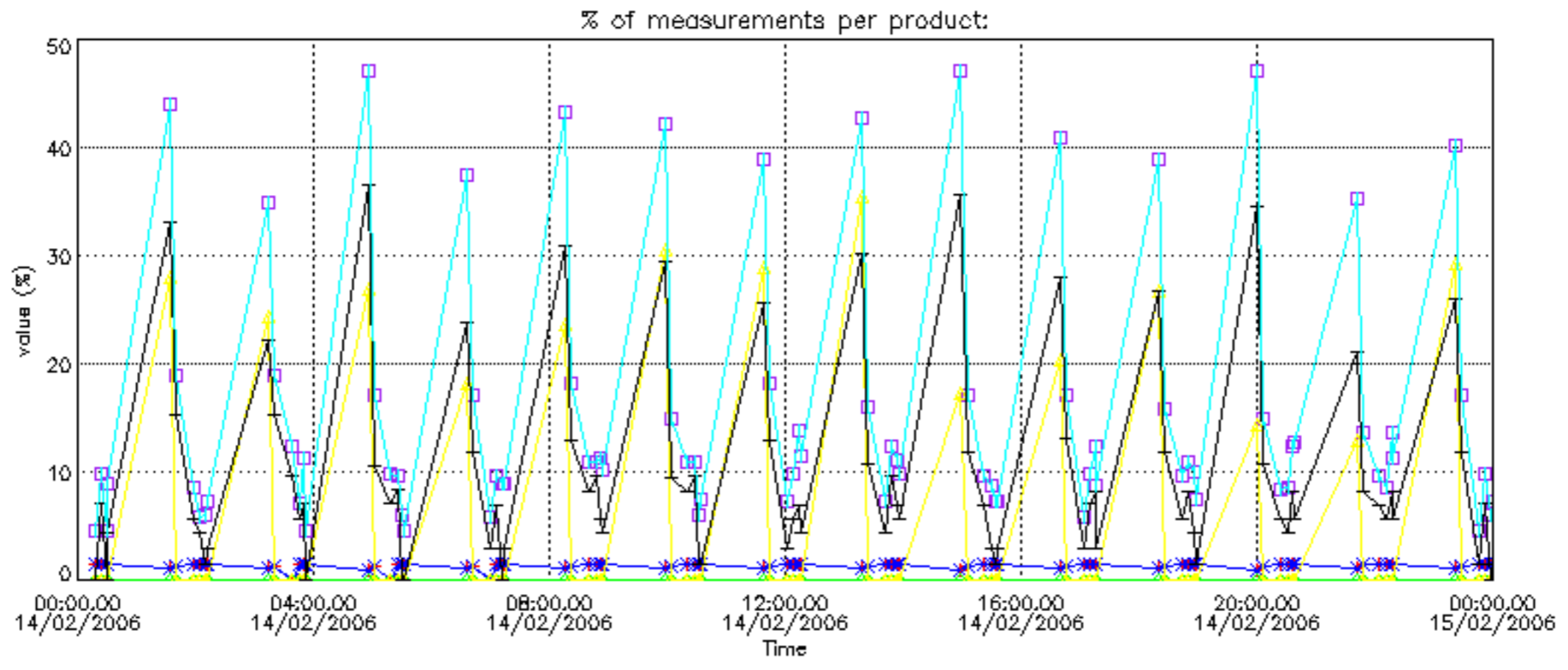
Percentage of flagged data per NO2 profile



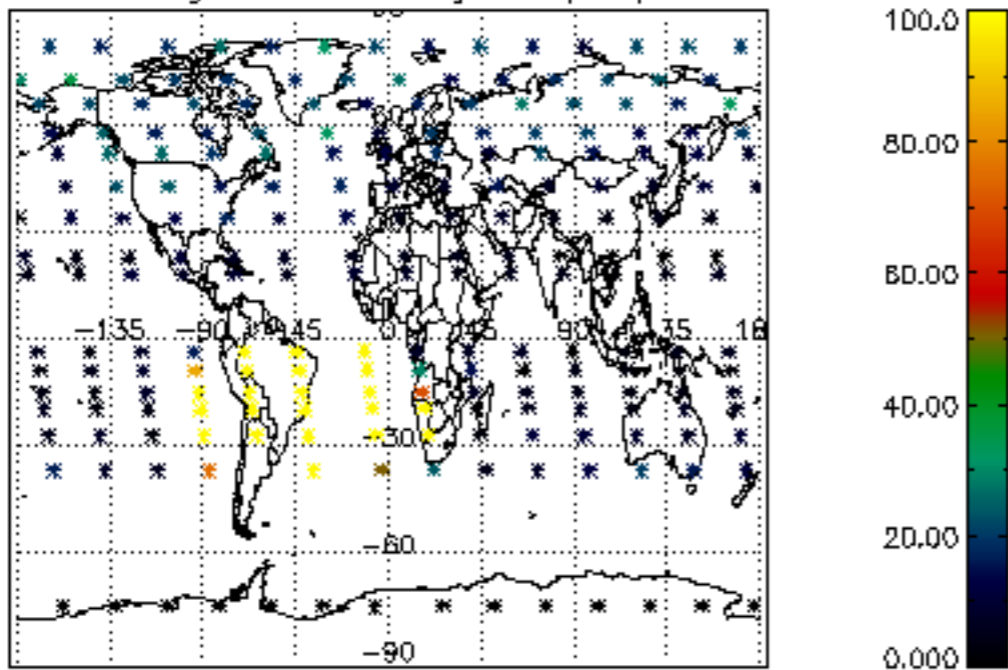
Percentage of flagged data per NO3 profile



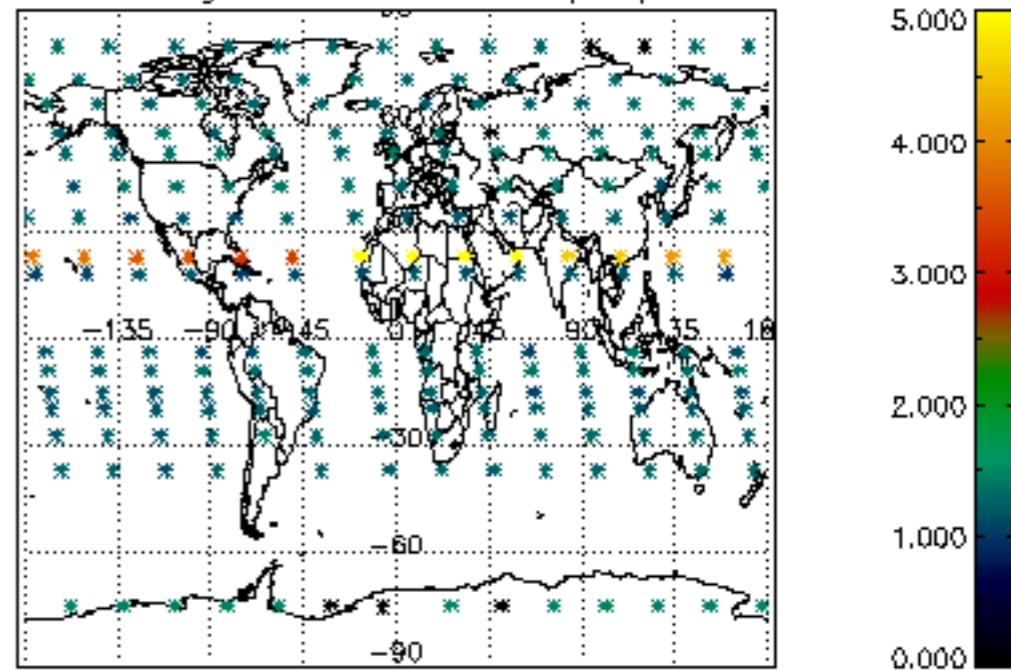




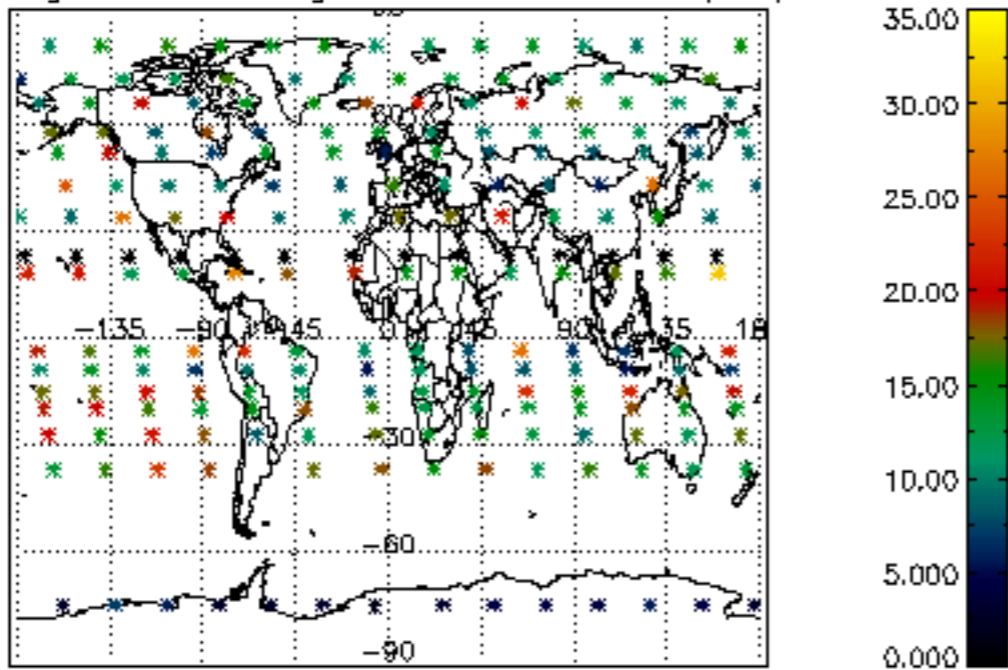
Percentage of cosmic ray hits per profile



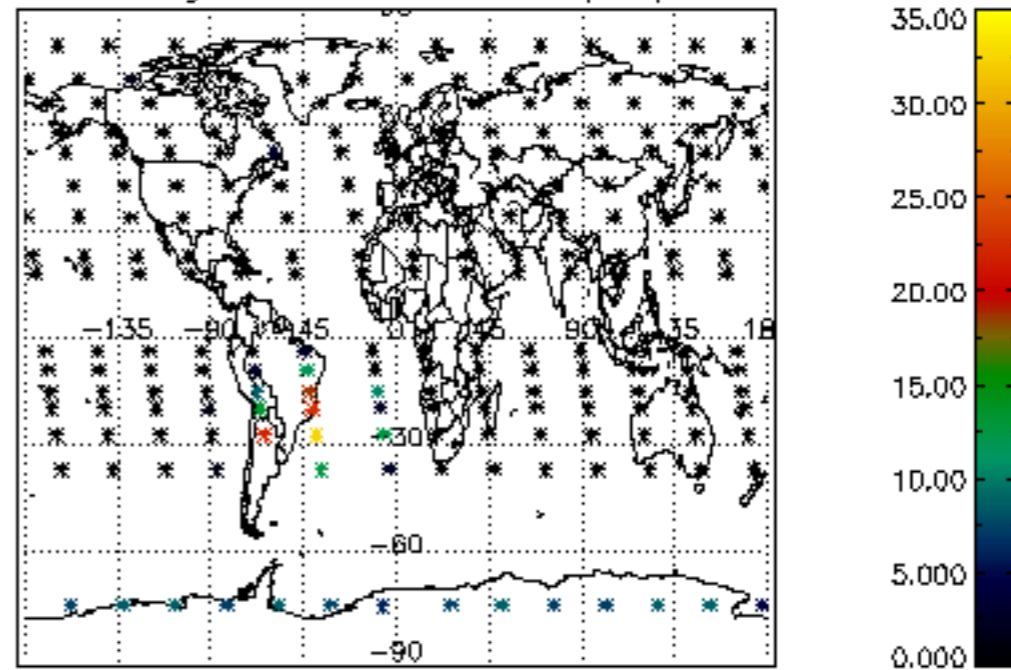
Percentage of datation errors per profile



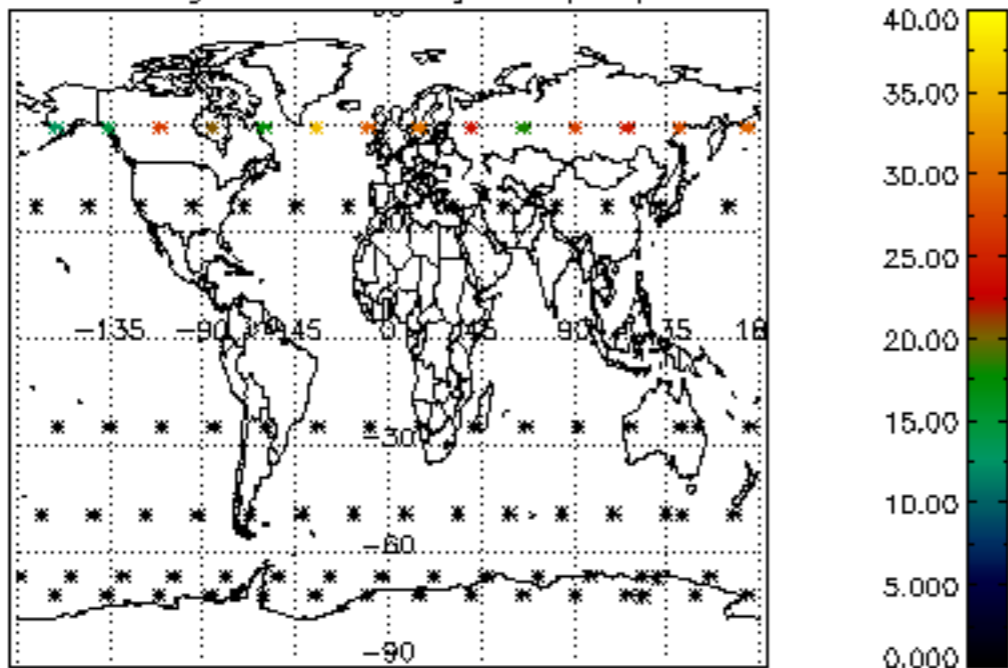
Percentage of star falling outside central band per profile



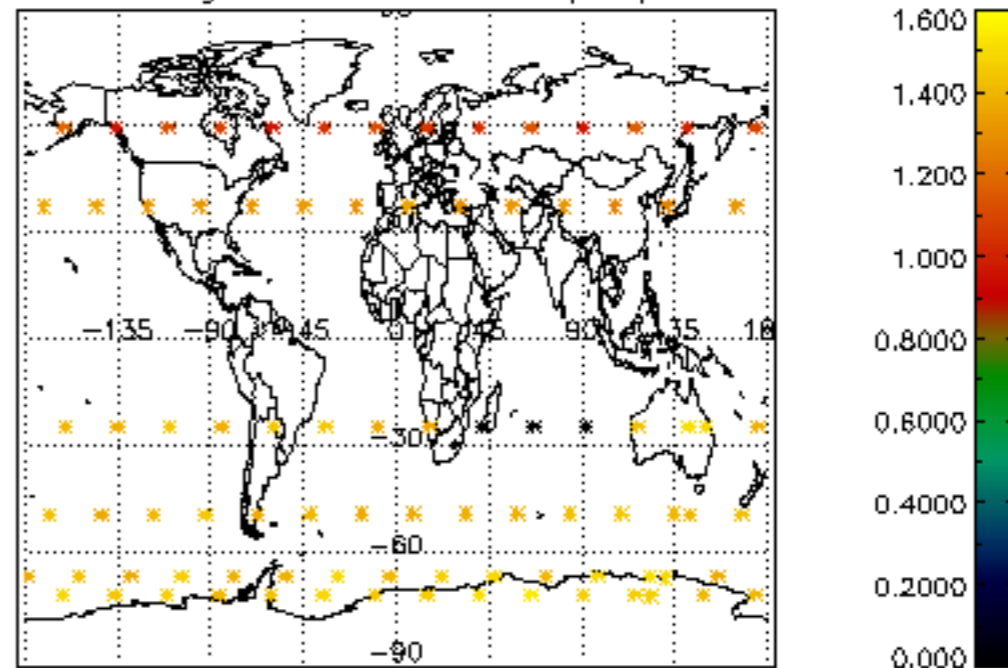
Percentage of saturation errors per profile



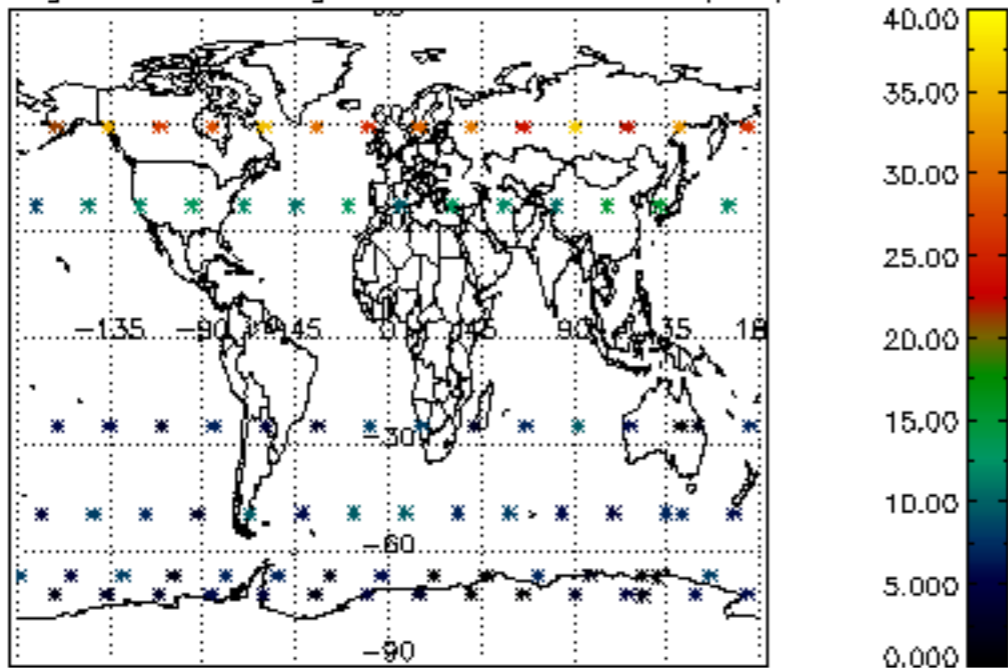
Percentage of cosmic ray hits per profile



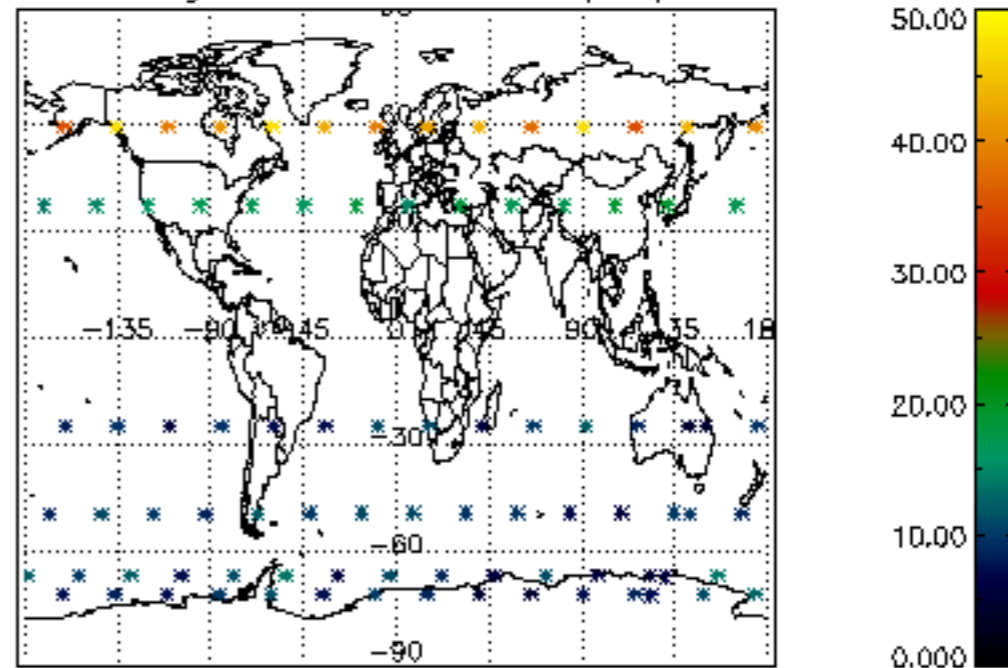
Percentage of datation errors per profile

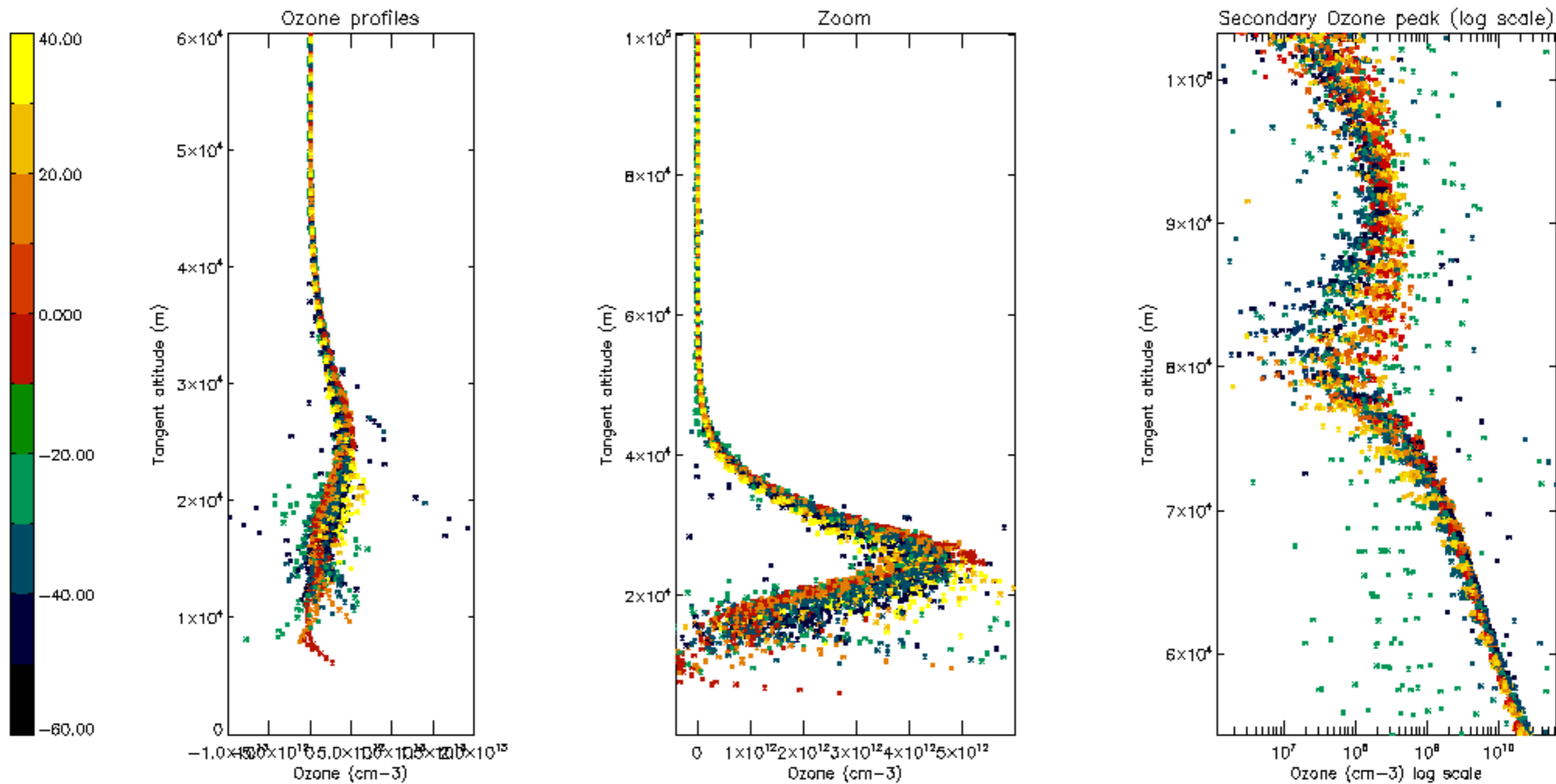


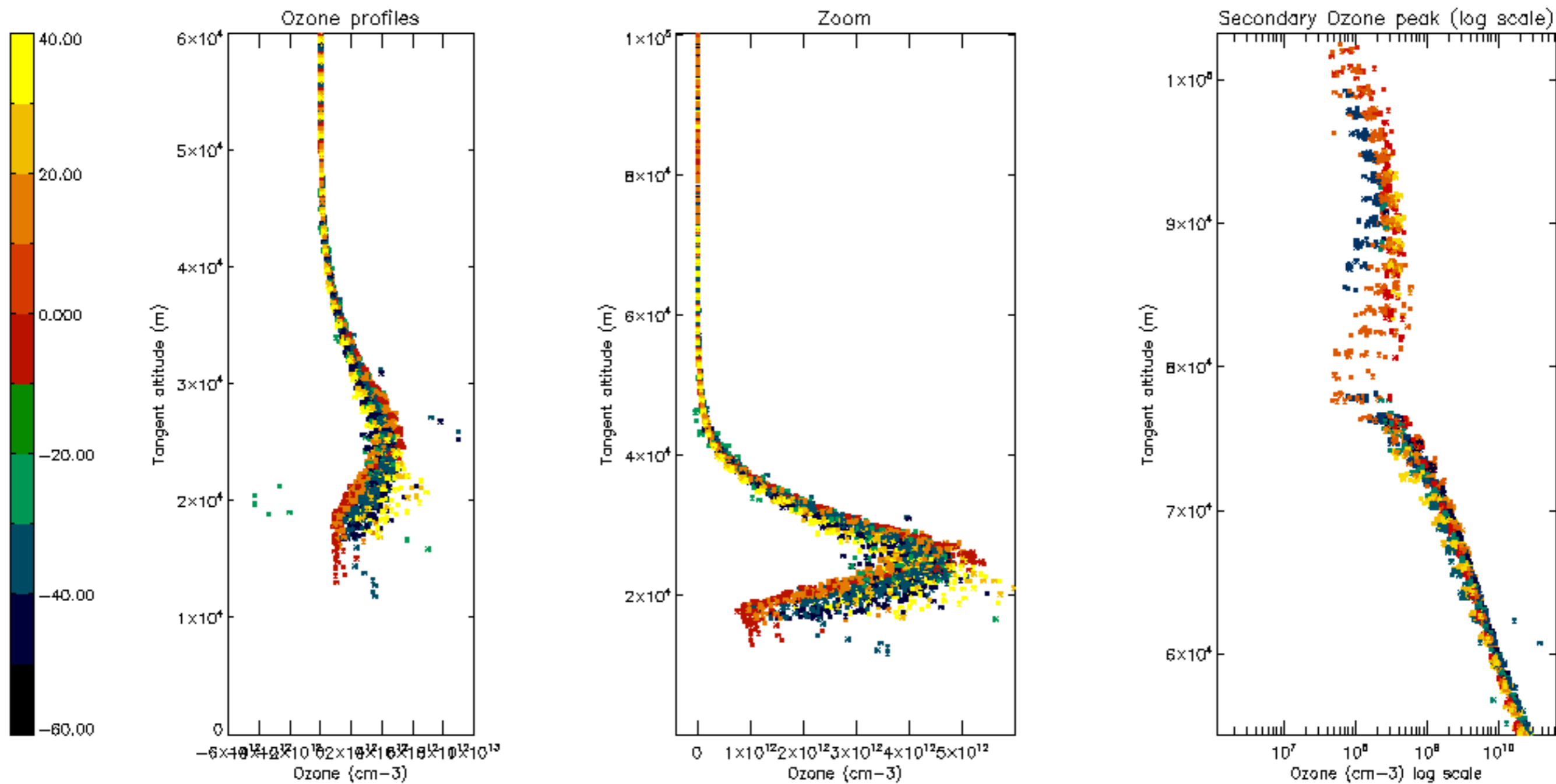
Percentage of star falling outside central band per profile

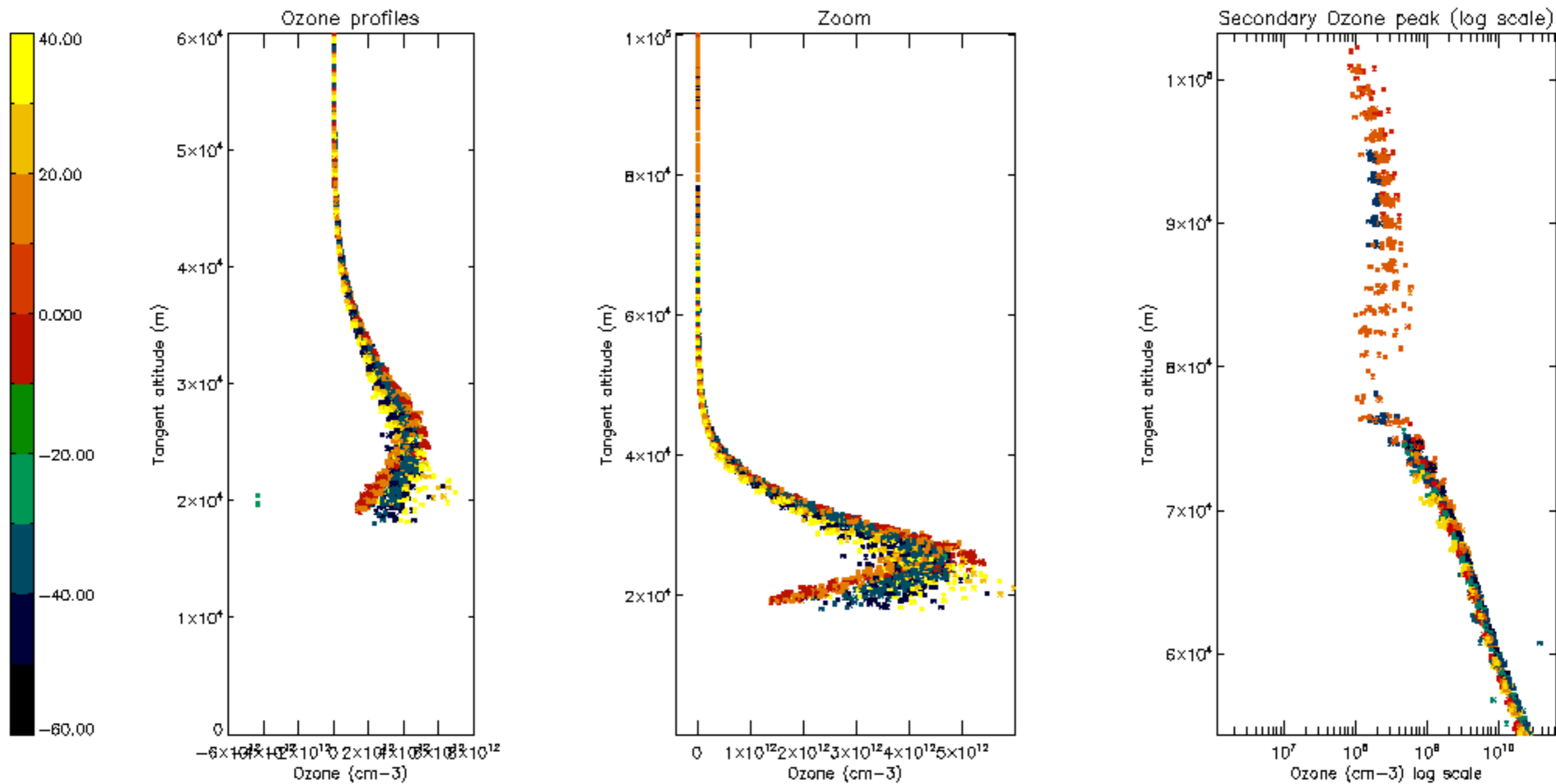


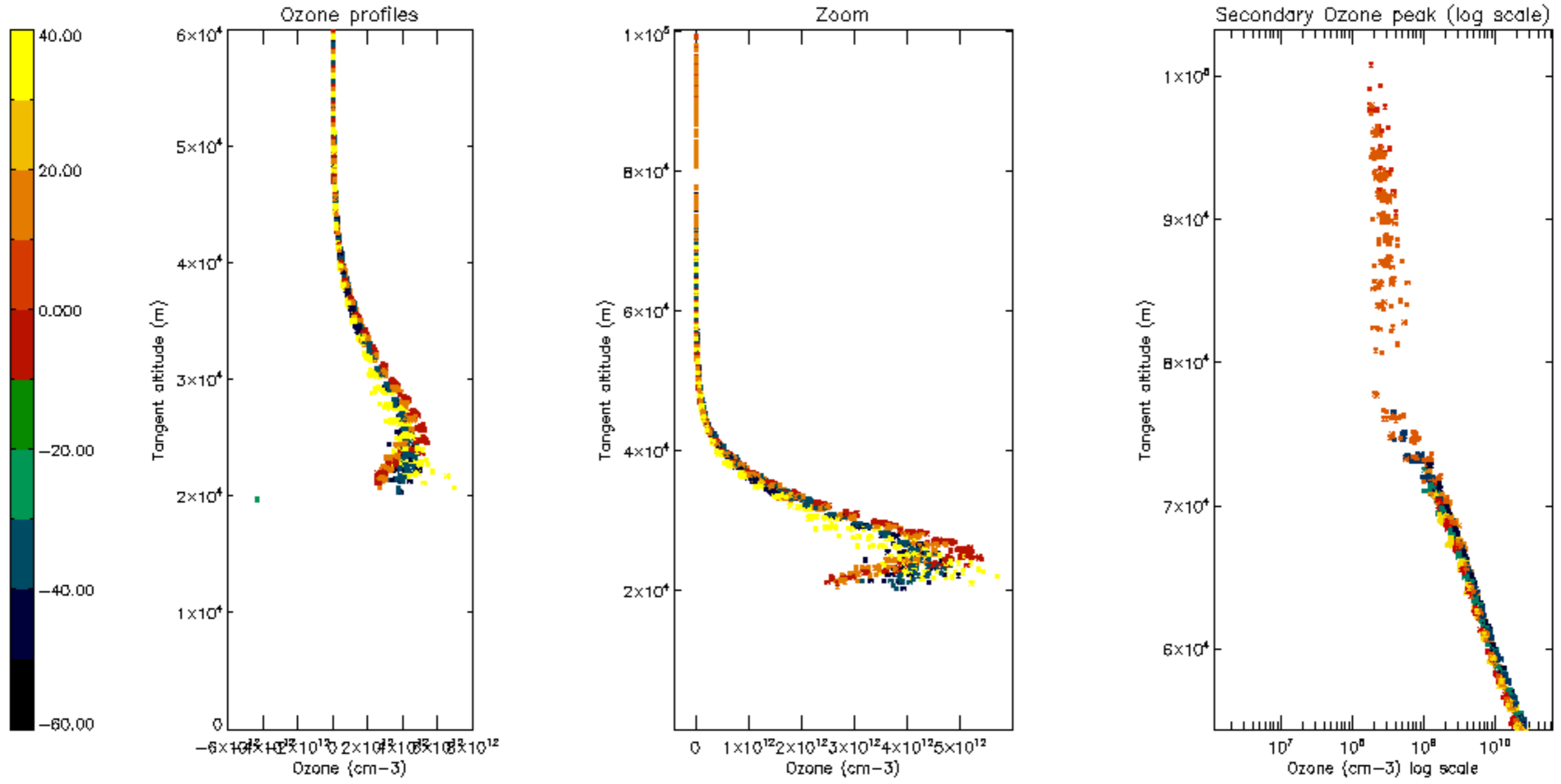
Percentage of saturation errors per profile

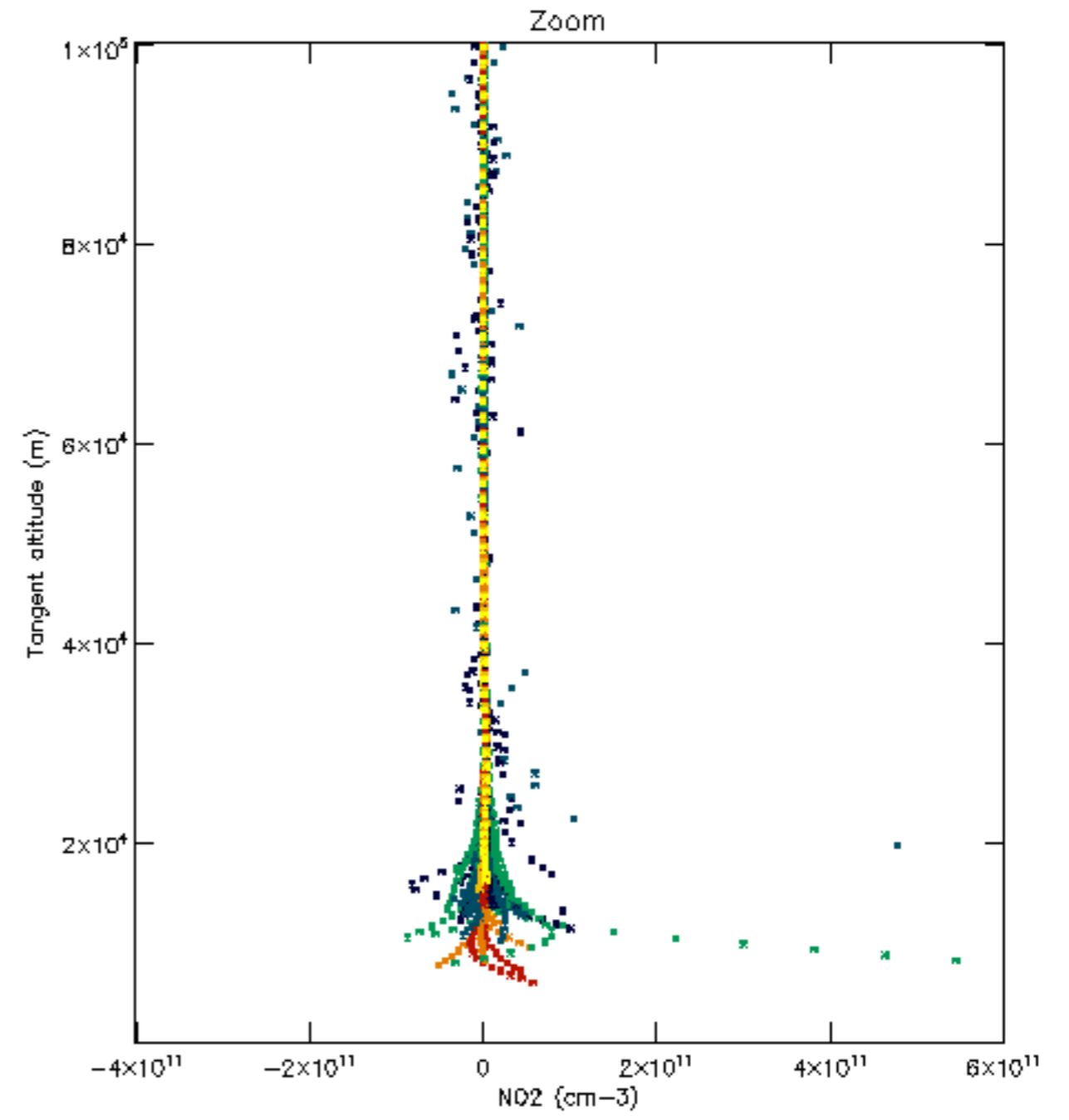
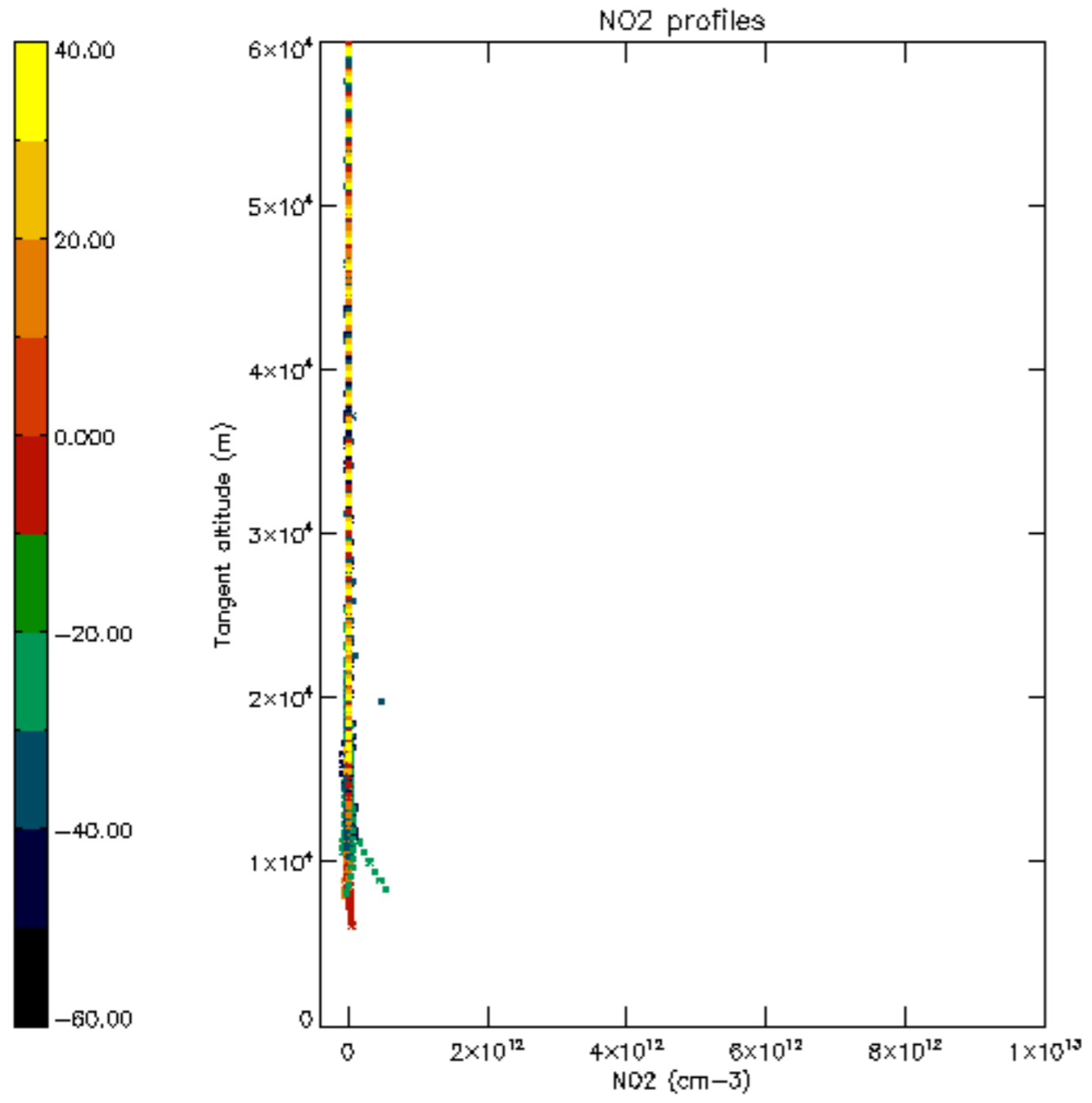


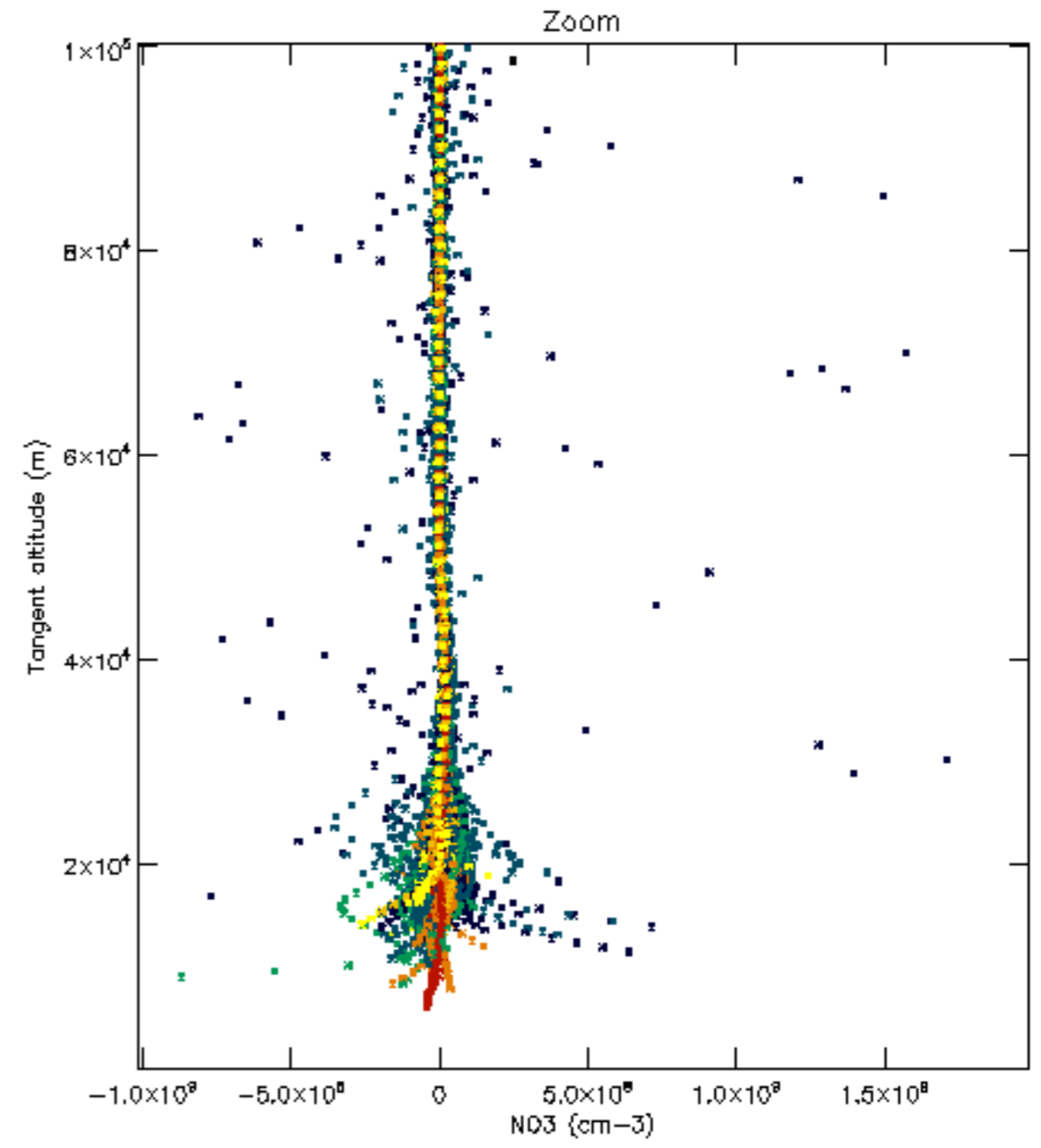
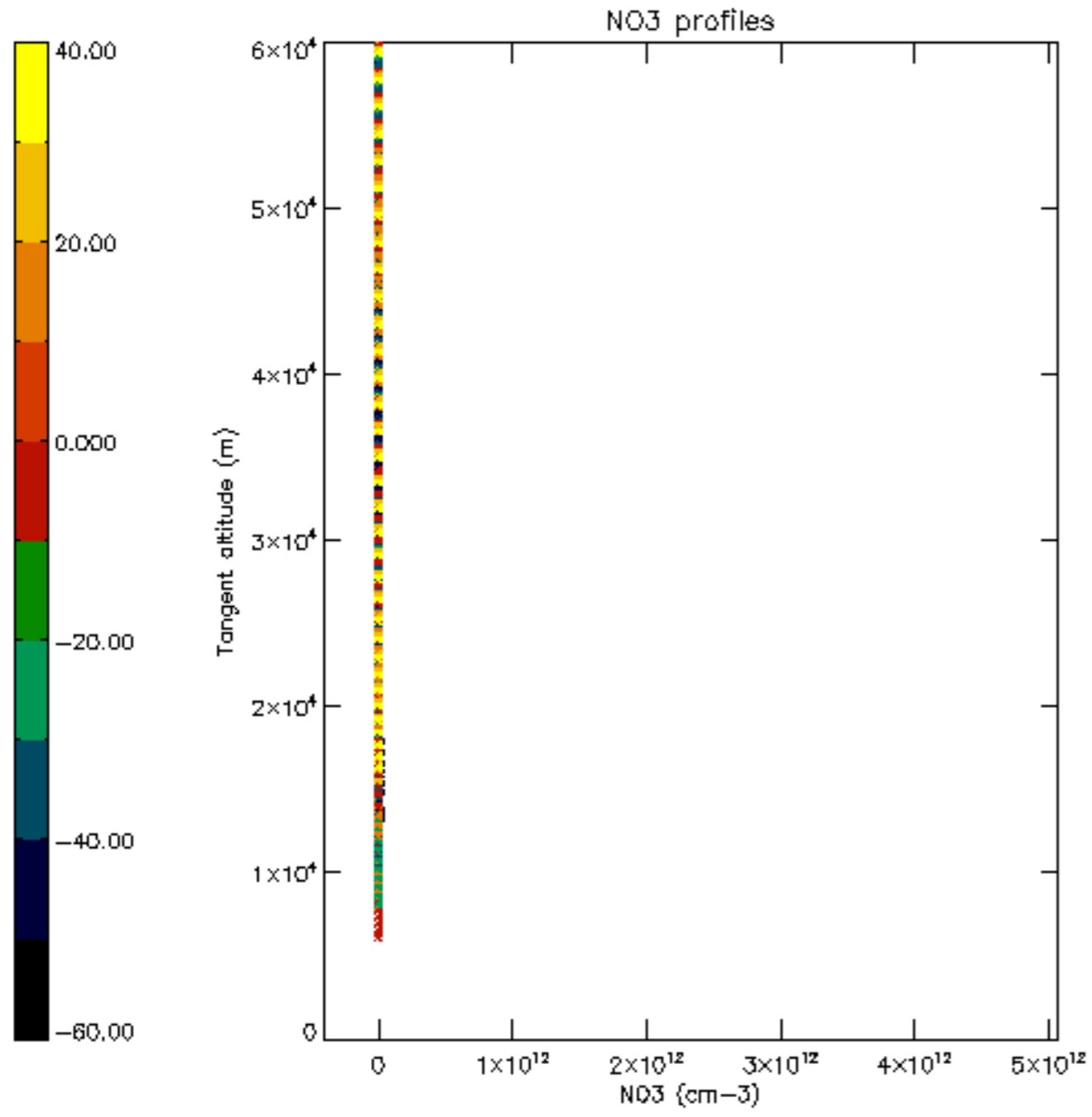


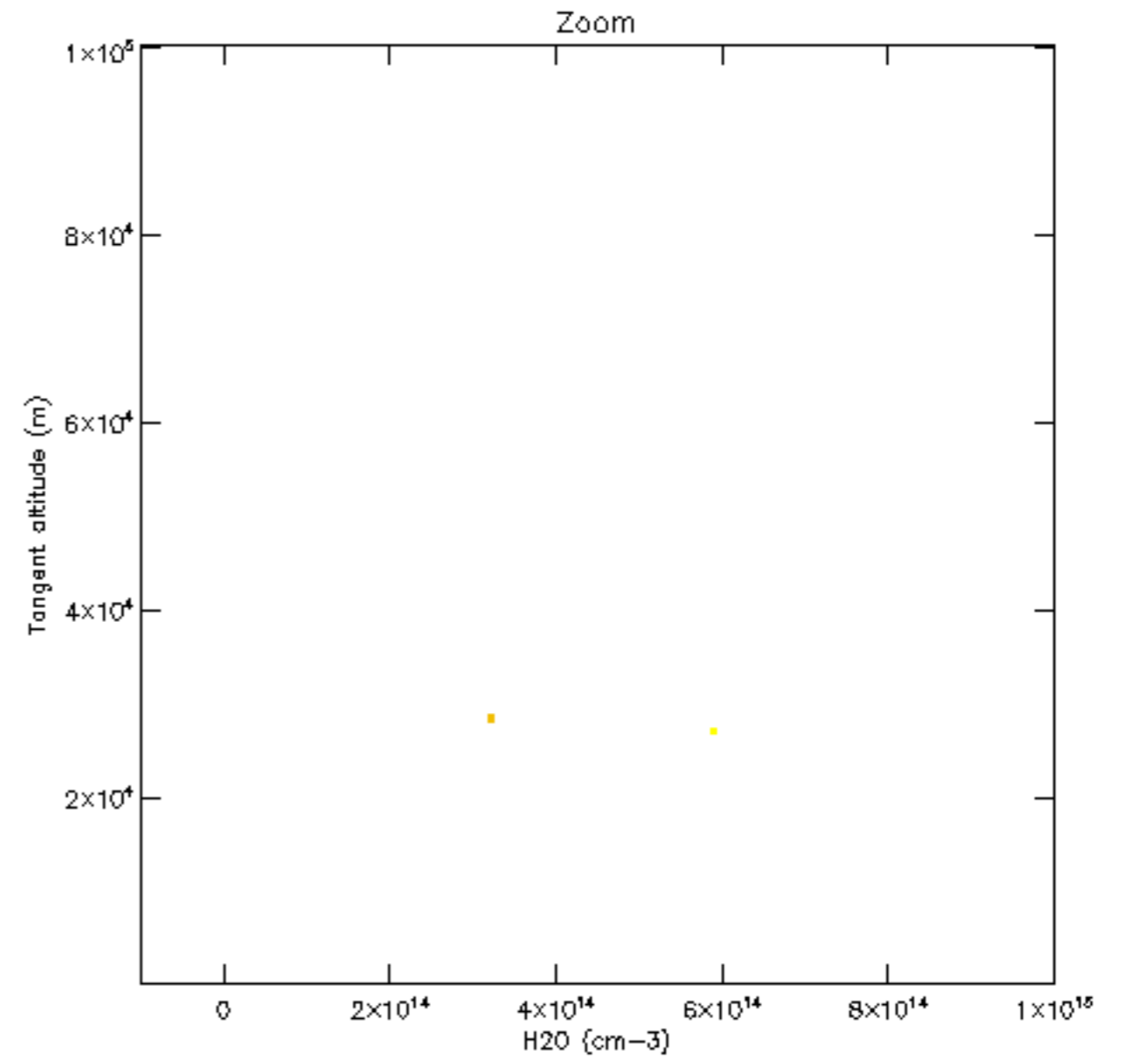
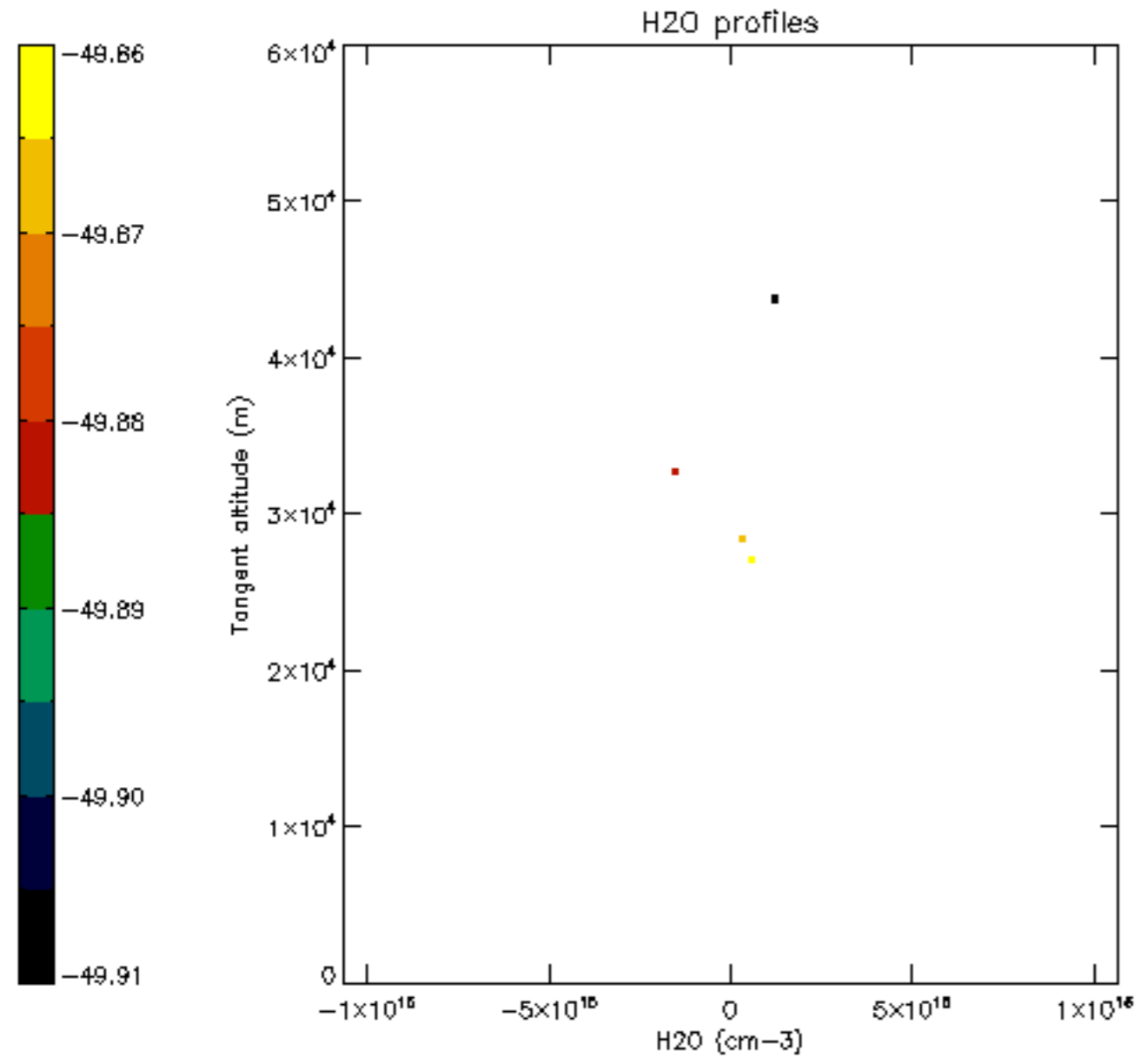


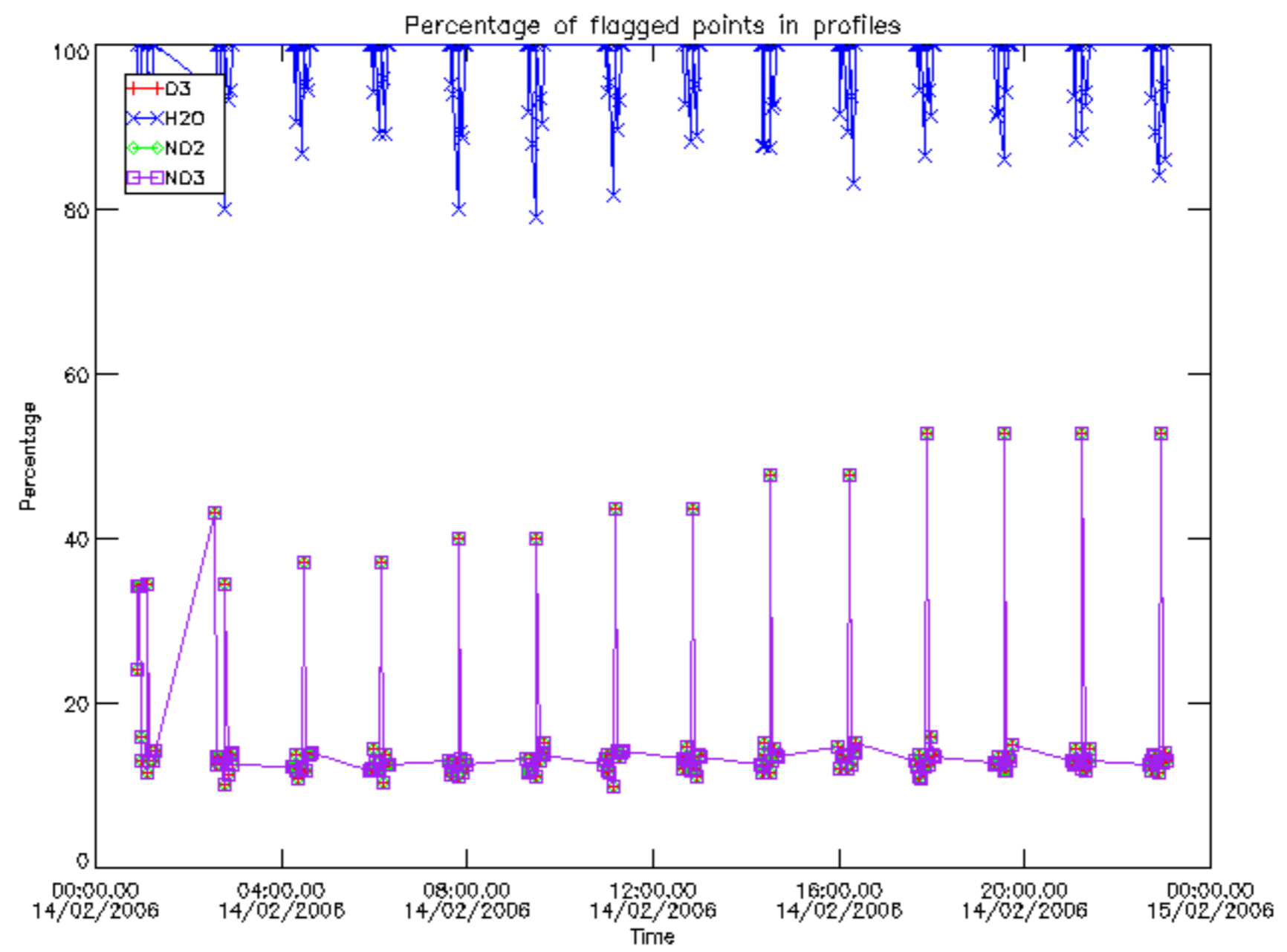




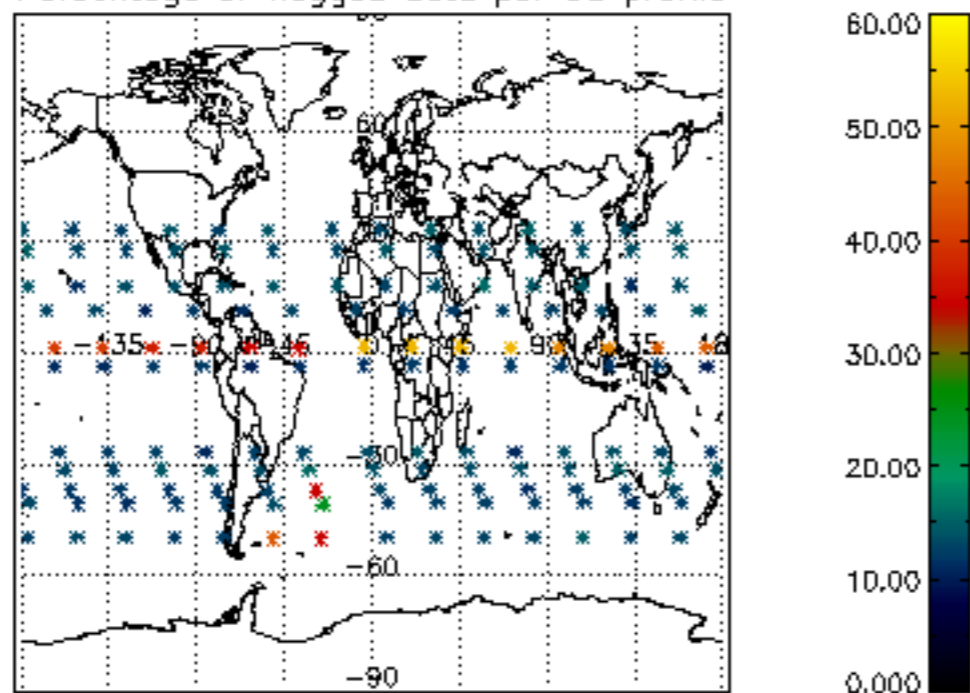




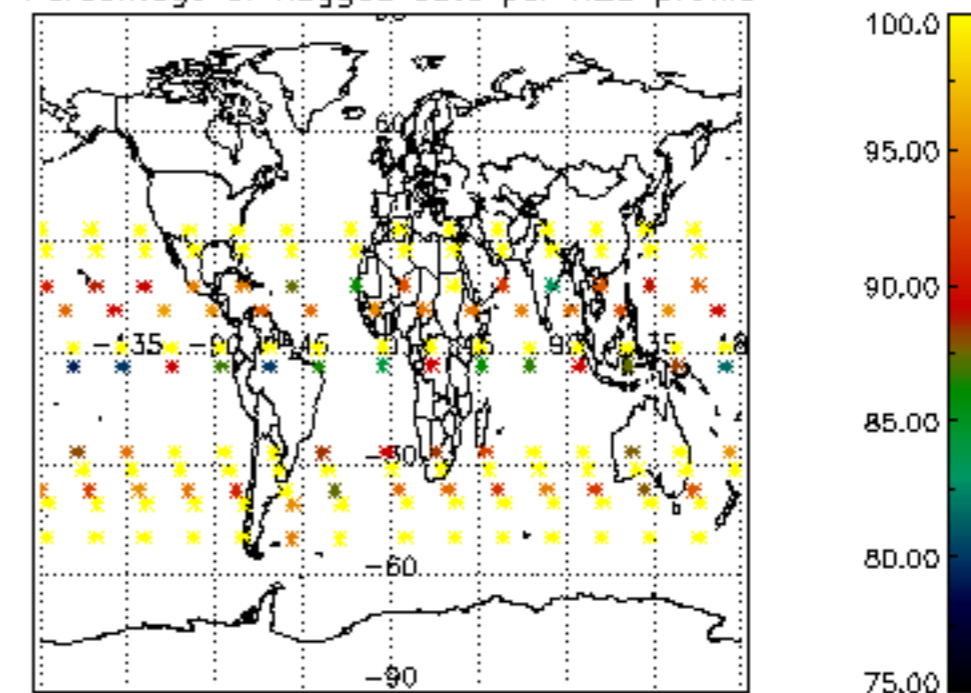




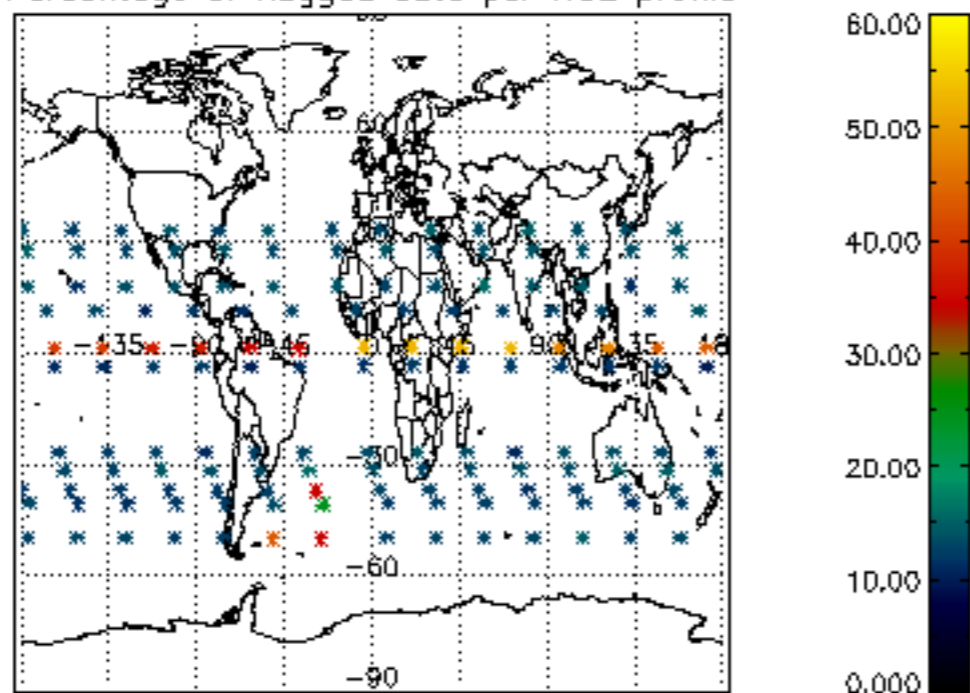
Percentage of flagged data per D3 profile



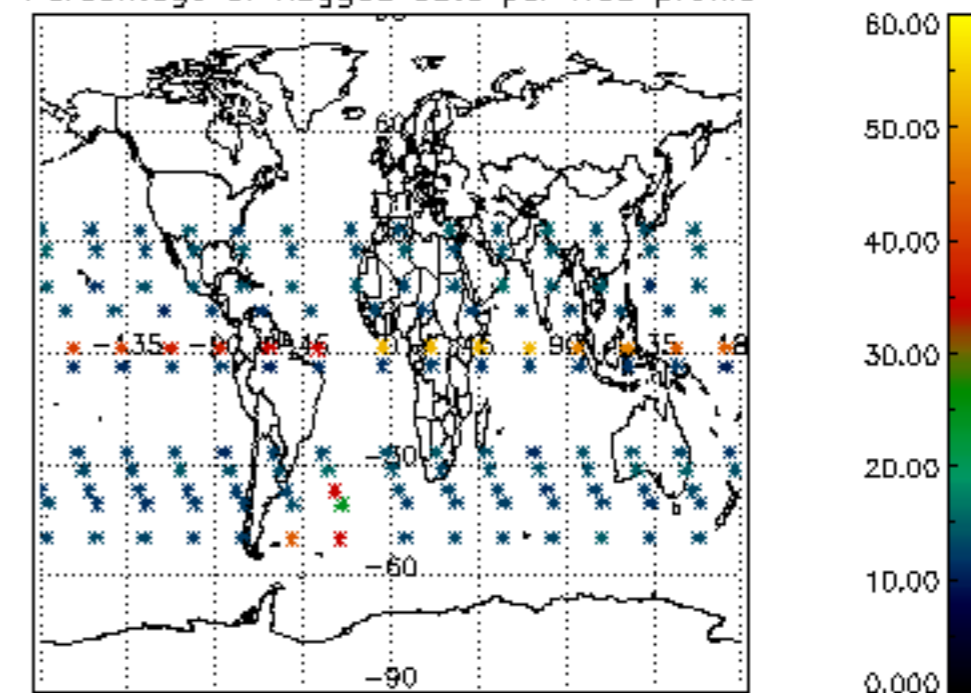
Percentage of flagged data per H2O profile

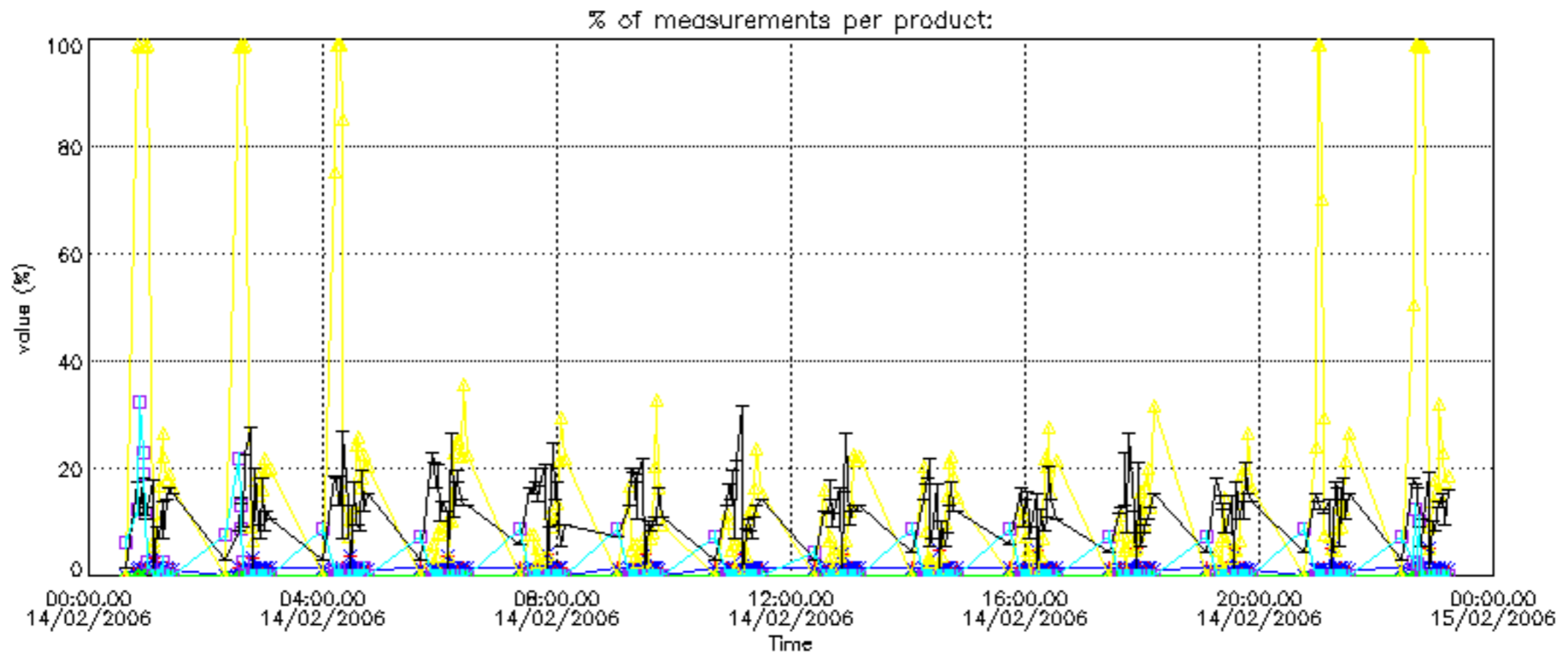


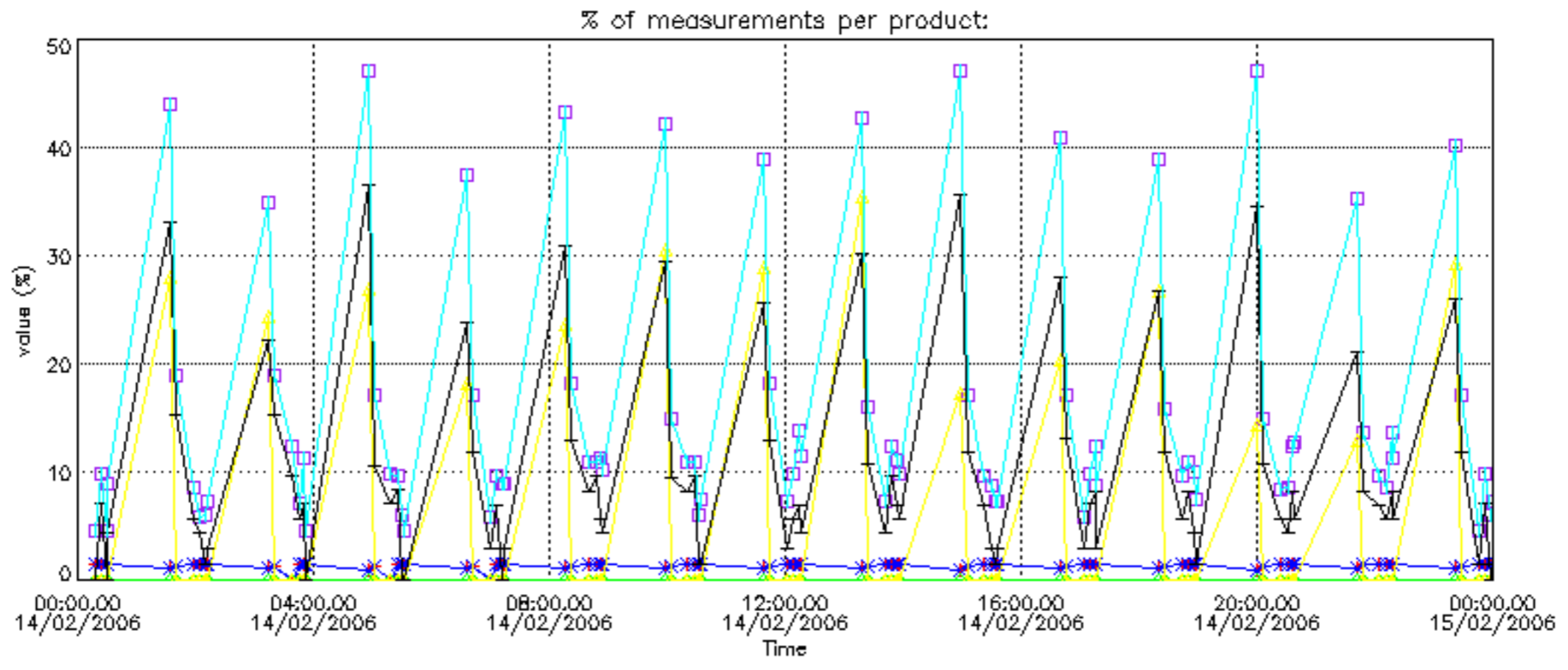
Percentage of flagged data per NO2 profile



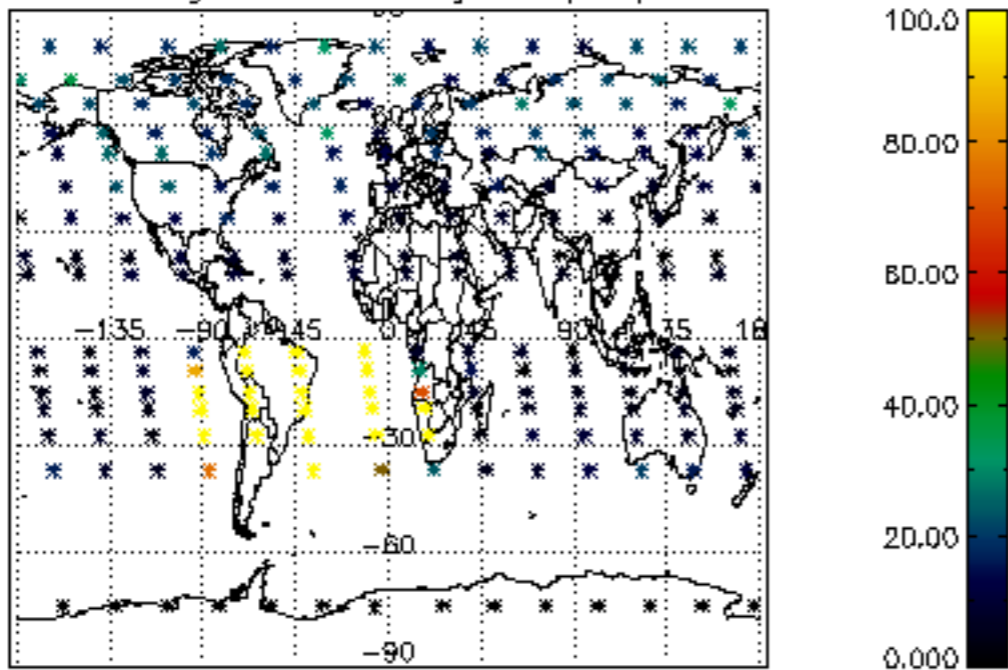
Percentage of flagged data per NO3 profile



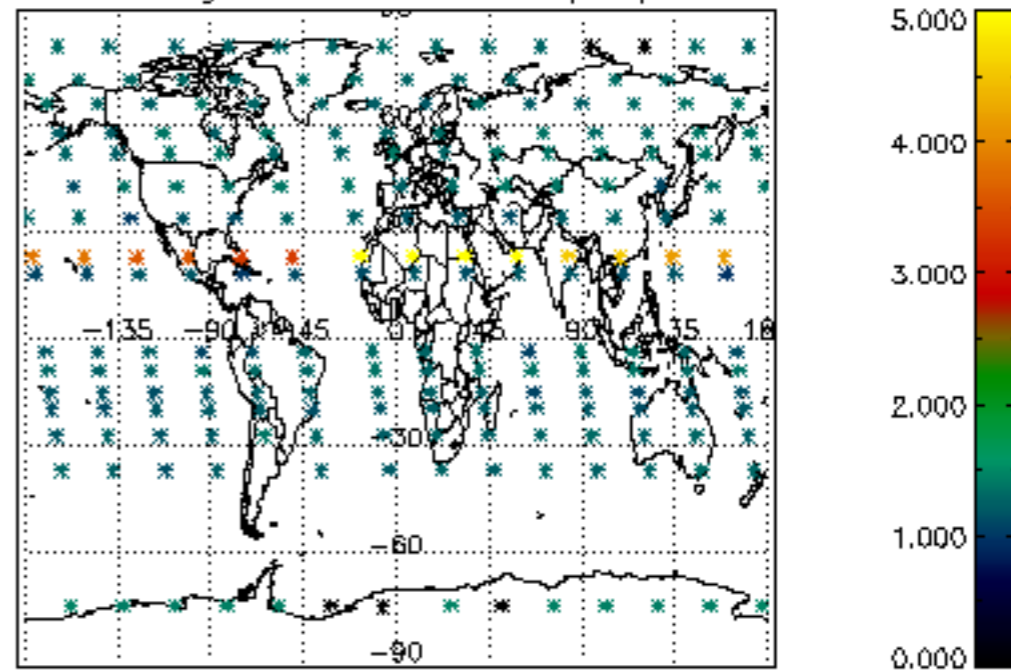




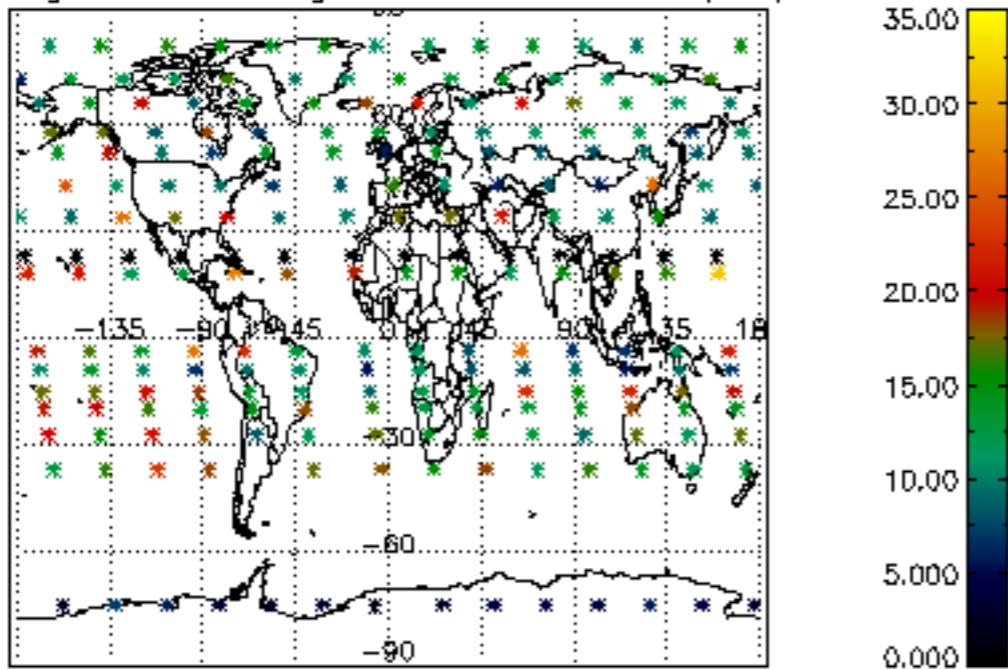
Percentage of cosmic ray hits per profile



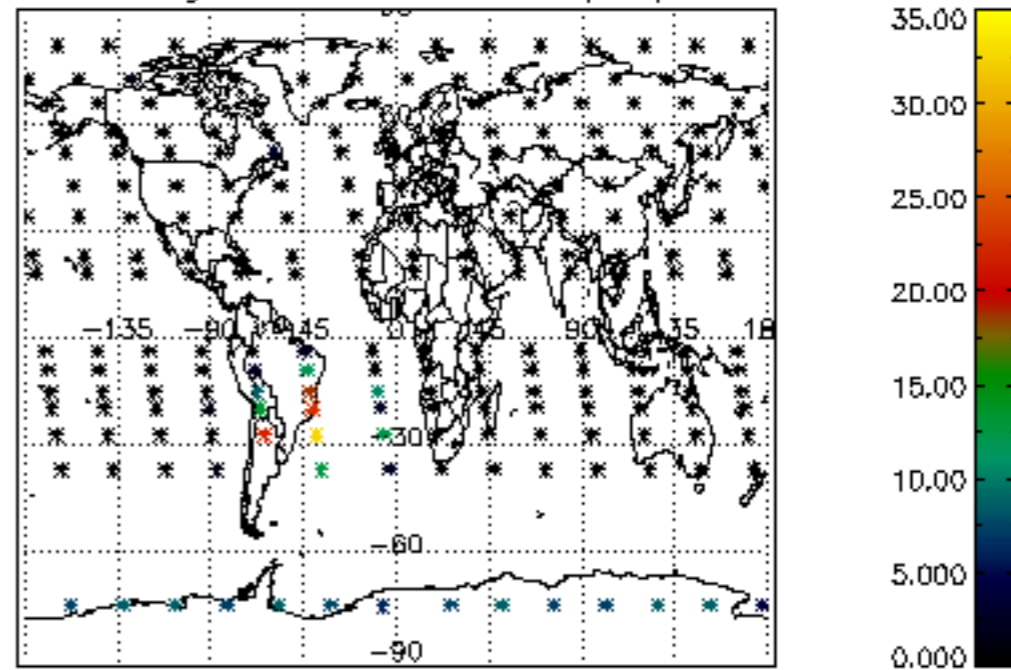
Percentage of datation errors per profile



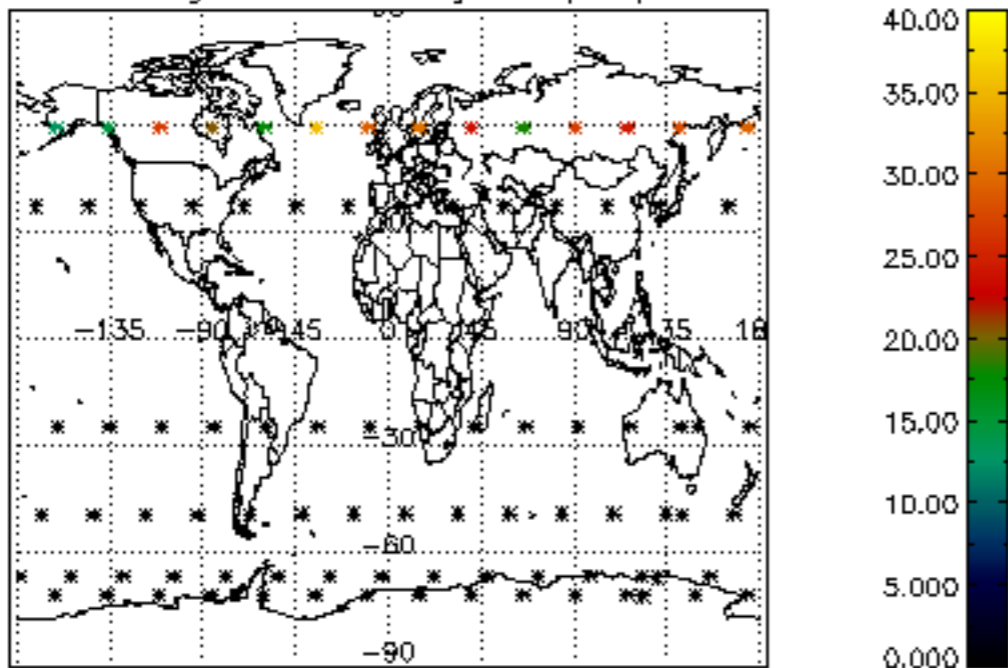
Percentage of star falling outside central band per profile



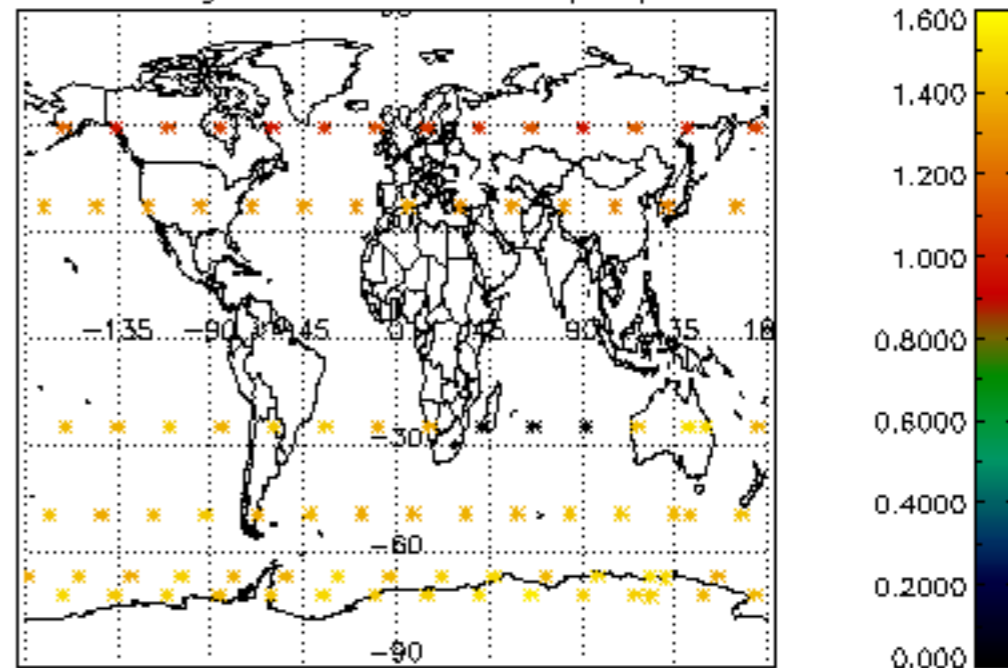
Percentage of saturation errors per profile



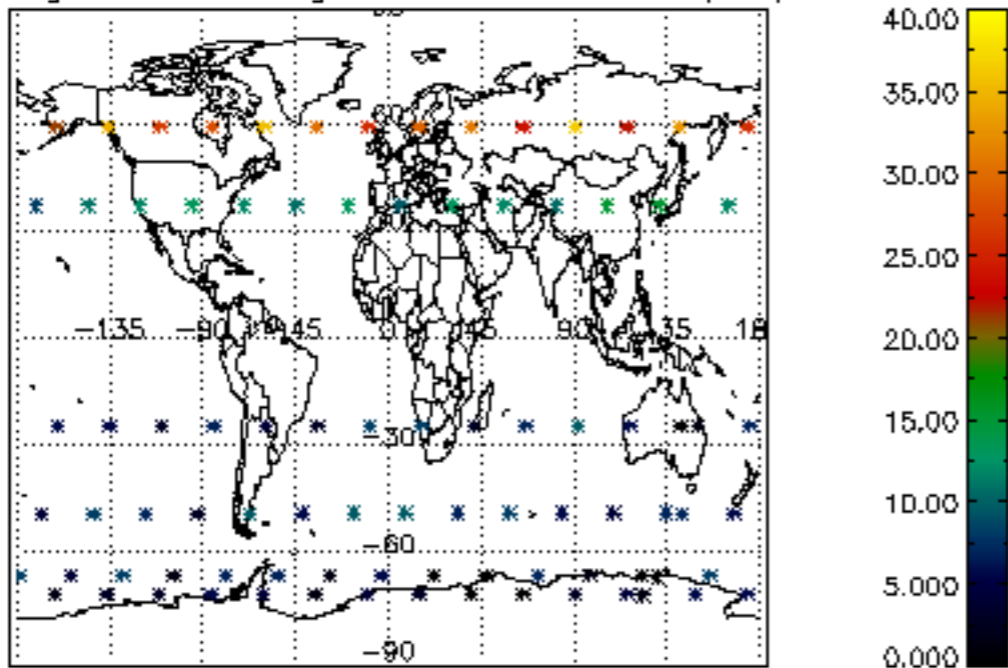
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

