

GOMOS Level 2 Daily Report

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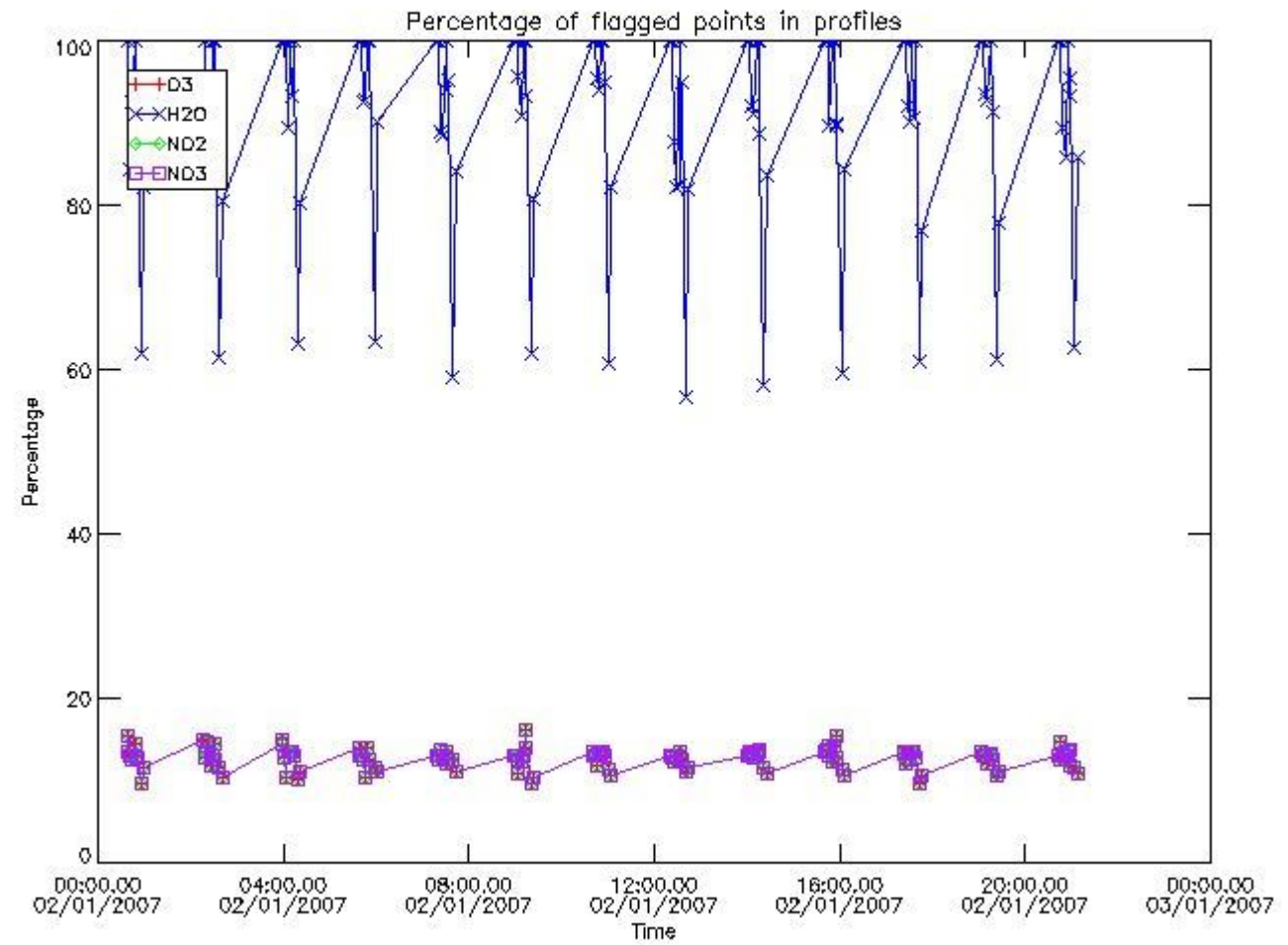
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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that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

Item	Value
Time of report generation	22APR2013 11:56:14
Data source version	GOMOS/6.01
Start time of products	02-01-2007 (02JAN2007 00:00:00)
Stop time of products	03-01-2007 (03JAN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	384
Nb of prods with errors	0

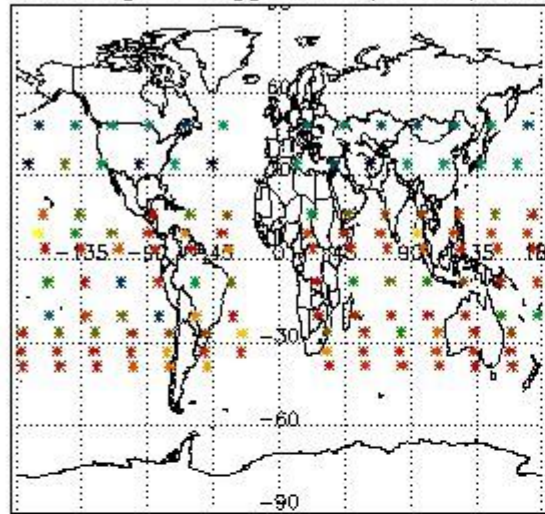
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070102_000127_000000382054_00202_25306_5098.N1	02-JAN-2007 00:01:27	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	25306	No
2	GOM_NL__2PRFIN20070102_000520_000000422054_00202_25306_5099.N1	02-JAN-2007 00:05:20	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	25306	No
3	GOM_NL__2PRFIN20070102_001341_000000342054_00202_25306_5100.N1	02-JAN-2007 00:13:41	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	25306	No
4	GOM_NL__2PRFIN20070102_001545_000000372054_00202_25306_5101.N1	02-JAN-2007 00:15:45	Bright	37.000	67	5Alp CrB	2.2210	11000.	74	25306	No
5	GOM_NL__2PRFIN20070102_002131_000000352054_00202_25306_5102.N1	02-JAN-2007 00:21:31	Bright	35.000	102	24Alp Ser	2.6000	4250.0	70	25306	No
6	GOM_NL__2PRFIN20070102_002349_000000342054_00202_25306_5103.N1	02-JAN-2007 00:23:49	Bright	34.000	120	1Del Oph	2.7340	3200.0	68	25306	No
7	GOM_NL__2PRFIN20070102_002636_000000372054_00202_25306_5104.N1	02-JAN-2007 00:26:36	Bright	37.000	104	27Bet Lib	2.6140	13100.	74	25306	No
8	GOM_NL__2PRFIN20070102_002917_000000442054_00202_25306_5105.N1	02-JAN-2007 00:29:17	Twilight	43.500	122	9Alp2Lib	2.7470	9700.0	87	25306	No
9	GOM_NL__2PRFIN20070102_003726_000000382054_00202_25306_5106.N1	02-JAN-2007 00:37:26	Dark	38.000	78	Alp Lup	2.3040	28000.	76	25306	No
10	GOM_NL__2PRFIN20070102_003857_000000402054_00202_25306_5107.N1	02-JAN-2007 00:38:57	Dark	39.500	95	Zet Cen	2.5450	26000.	79	25306	No
11	GOM_NL__2PRFIN20070102_004117_000000392054_00203_25307_5305.N1	02-JAN-2007 00:41:17	Dark	39.000	10	Bet Cen	0.61000	28000.	78	25307	No
12	GOM_NL__2PRFIN20070102_004428_000000412054_00203_25307_5306.N1	02-JAN-2007 00:44:28	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	25307	No
13	GOM_NL__2PRFIN20070102_004750_000000392054_00203_25307_5307.N1	02-JAN-2007 00:47:50	Dark	38.500	124	The Car	2.7640	30000.	77	25307	No
14	GOM_NL__2PRFIN20070102_004944_000000392054_00203_25307_5308.N1	02-JAN-2007 00:49:44	Dark	39.000	29	Bet Car	1.6720	10200.	78	25307	No
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16	GOM_NL__2PRFIN20070102_005655_000000532054_00203_25307_5310.N1	02-JAN-2007 00:56:55	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	25307	No
17	GOM_NL__2PRFIN20070102_010010_000000482054_00203_25307_5311.N1	02-JAN-2007 01:00:10	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	25307	No
18	GOM_NL__2PRFIN20070102_010257_000000452054_00203_25307_5312.N1	02-JAN-2007 01:02:57	Straylight	44.500	23	21Eps CMa	1.5020	26000.	89	25307	No
19	GOM_NL__2PRFIN20070102_010656_000000412054_00203_25307_5313.N1	02-JAN-2007 01:06:56	Straylight	41.000	1	9Alp CMa	-1.4400	11000.	82	25307	No
20	GOM_NL__2PRFIN20070102_011004_000000462054_00203_25307_5314.N1	02-JAN-2007 01:10:04	Straylight	45.500	7	19Bet Ori	0.10000	14000.	91	25307	No
21	GOM_NL__2PRFIN20070102_011155_000000422054_00203_25307_5315.N1	02-JAN-2007 01:11:55	Straylight	41.500	30	46Eps Ori	1.6940	30000.	83	25307	No
22	GOM_NL__2PRFIN20070102_011425_000000502054_00203_25307_5316.N1	02-JAN-2007 01:14:25	Twilight	49.500	14	58Alp Ori	0.87000	3000.0	99	25307	No
23	GOM_NL__2PRFIN20070102_011823_000000382054_00203_25307_5317.N1	02-JAN-2007 01:18:23	Bright	37.500	176	23Zet Tau	3.0200	22000.	75	25307	No
24	GOM_NL__2PRFIN20070102_012146_000000372054_00203_25307_5318.N1	02-JAN-2007 01:21:46	Bright	36.500	114	3lot Aur	2.6930	4600.0	73	25307	No
25	GOM_NL__2PRFIN20070102_012318_000000392054_00203_25307_5319.N1	02-JAN-2007 01:23:18	Bright	38.500	107	37The Aur	2.6490	11000.	77	25307	No
26	GOM_NL__2PRFIN20070102_012525_000000432054_00203_25307_5320.N1	02-JAN-2007 01:25:25	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	25307	No
27	GOM_NL__2PRFIN20070102_013736_000000332054_00203_25307_5321.N1	02-JAN-2007 01:37:36	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	25307	No
28	GOM_NL__2PRFIN20070102_014203_000000372054_00203_25307_5322.N1	02-JAN-2007 01:42:03	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	25307	No
29	GOM_NL__2PRFIN20070102_014555_000000342054_00203_25307_5323.N1	02-JAN-2007 01:45:55	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	25307	No
30	GOM_NL__2PRFIN20070102_015417_000000342054_00203_25307_5324.N1	02-JAN-2007 01:54:17	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	25307	No
31	GOM_NL__2PRFIN20070102_015621_000000362054_00203_25307_5325.N1	02-JAN-2007 01:56:21	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	25307	No
32	GOM_NL__2PRFIN20070102_020207_000000362054_00203_25307_5326.N1	02-JAN-2007 02:02:07	Bright	36.000	102	24Alp Ser	2.6000	4250.0	72	25307	No
33	GOM_NL__2PRFIN20070102_020426_000000332054_00203_25307_5327.N1	02-JAN-2007 02:04:26	Bright	33.000	120	1Del Oph	2.7340	3200.0	66	25307	No
34	GOM_NL__2PRFIN20070102_020713_000000382054_00203_25307_5328.N1	02-JAN-2007 02:07:13	Bright	37.500	104	27Bet Lib	2.6140	13100.	75	25307	No
35	GOM_NL__2PRFIN20070102_020953_000000452054_00203_25307_5329.N1	02-JAN-2007 02:09:53	Twilight	44.500	122	9Alp2Lib	2.7470	9700.0	89	25307	No
36	GOM_NL__2PRFIN20070102_021634_000000382054_00203_25307_5330.N1	02-JAN-2007 02:16:34	Dark	37.500	109	Bet Lup	2.6770	26000.	75	25307	No
37	GOM_NL__2PRFIN20070102_021802_000000382054_00203_25307_5331.N1	02-JAN-2007 02:18:02	Dark	38.000	78	Alp Lup	2.3040	28000.	76	25307	No
38	GOM_NL__2PRFIN20070102_021933_000000402054_00203_25307_5332.N1	02-JAN-2007 02:19:33	Dark	40.000	95	Zet Cen	2.5450	26000.	80	25307	No
39	GOM_NL__2PRFIN20070102_022154_000000422054_00204_25308_5313.N1	02-JAN-2007 02:21:54	Dark	41.500	10	Bet Cen	0.61000	28000.	83	25308	No
40	GOM_NL__2PRFIN20070102_022505_000000432054_00204_25308_5314.N1	02-JAN-2007 02:25:05	Dark	43.000	12	Alp1Cru	0.77500	30000.	86	25308	No
41	GOM_NL__2PRFIN20070102_022826_000000392054_00204_25308_5315.N1	02-JAN-2007 02:28:26	Dark	39.000	124	The Car	2.7640	30000.	78	25308	No
42	GOM_NL__2PRFIN20070102_023021_000000392054_00204_25308_5316.N1	02-JAN-2007 02:30:21	Dark	38.500	29	Bet Car	1.6720	10200.	77	25308	No

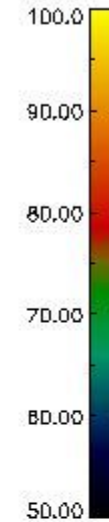
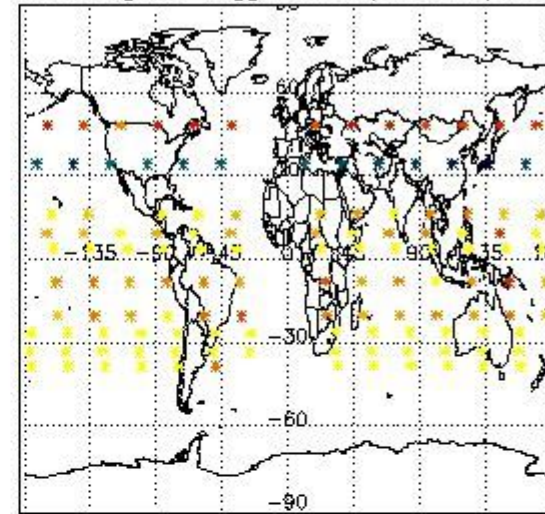


3.2 Plot quality information per product (world map)

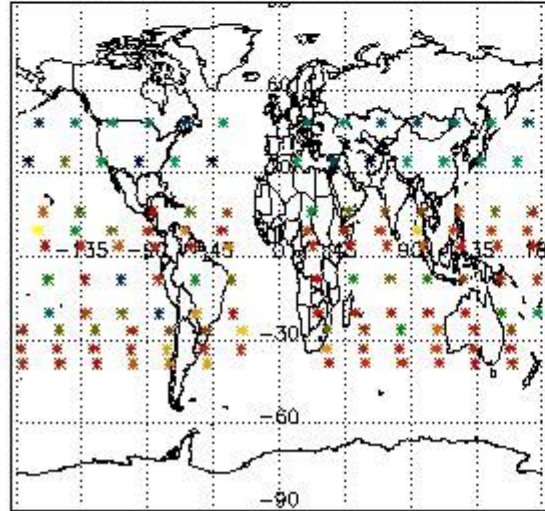
Percentage of flagged data per O3 profile



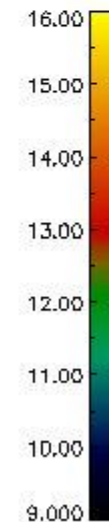
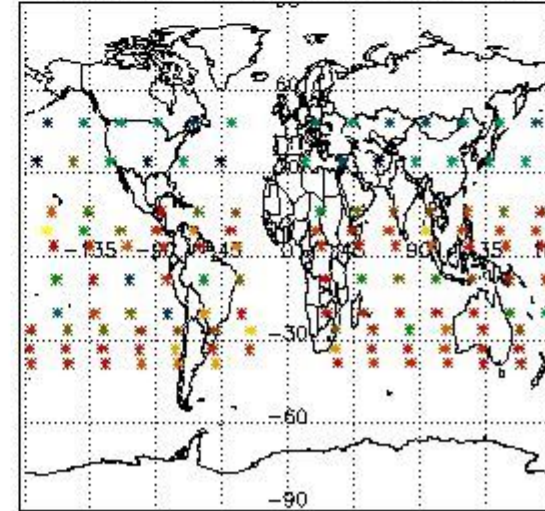
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

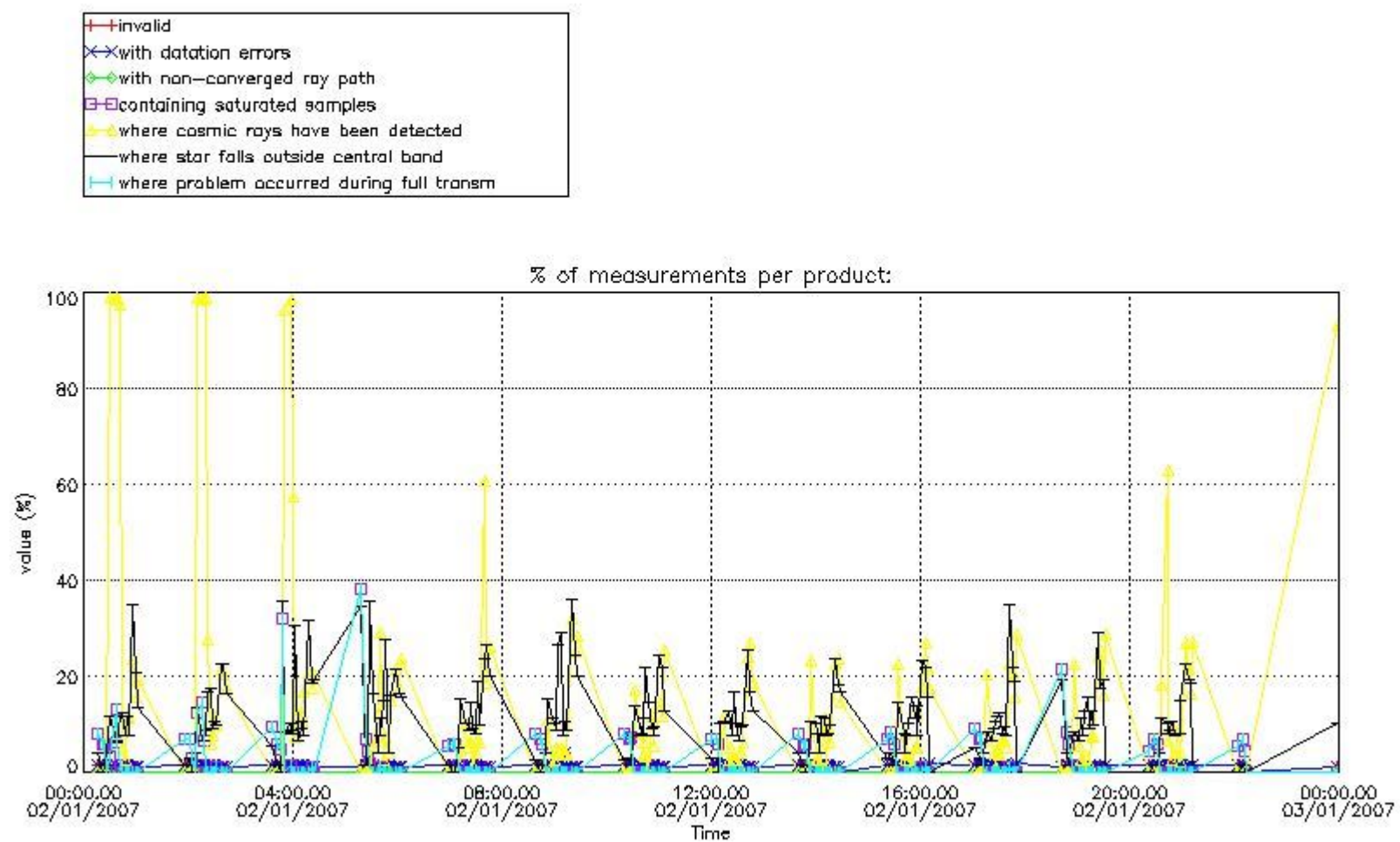


4. Level 1 quality information per product

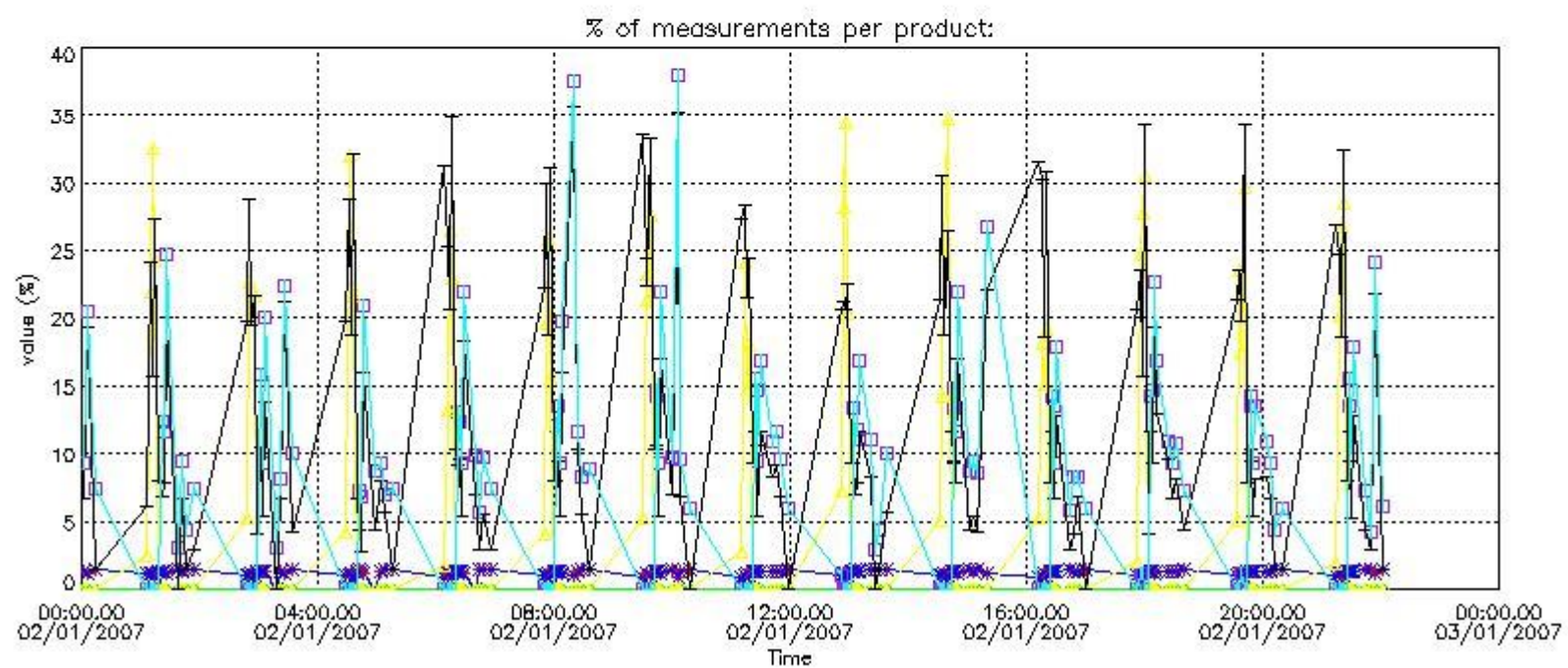
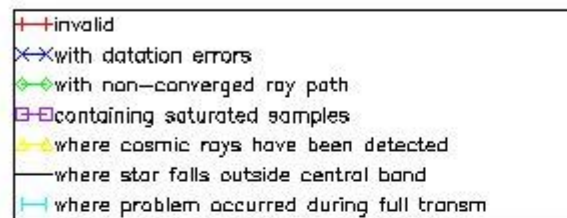
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

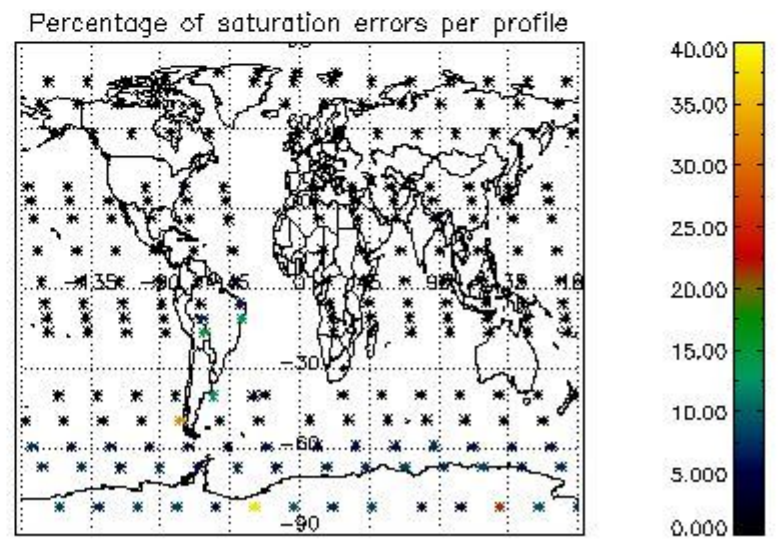
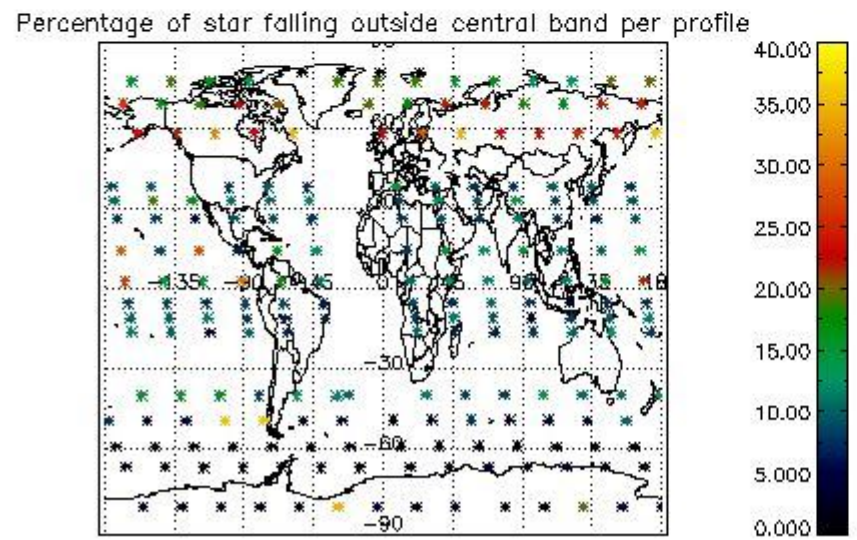
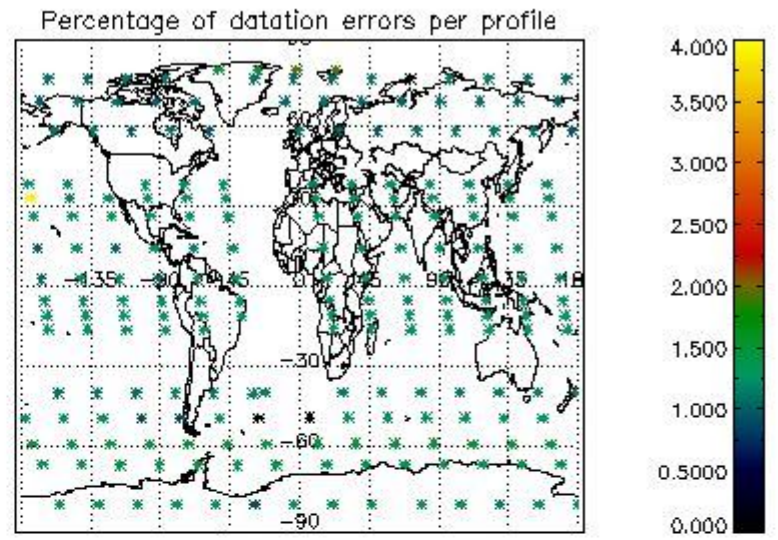
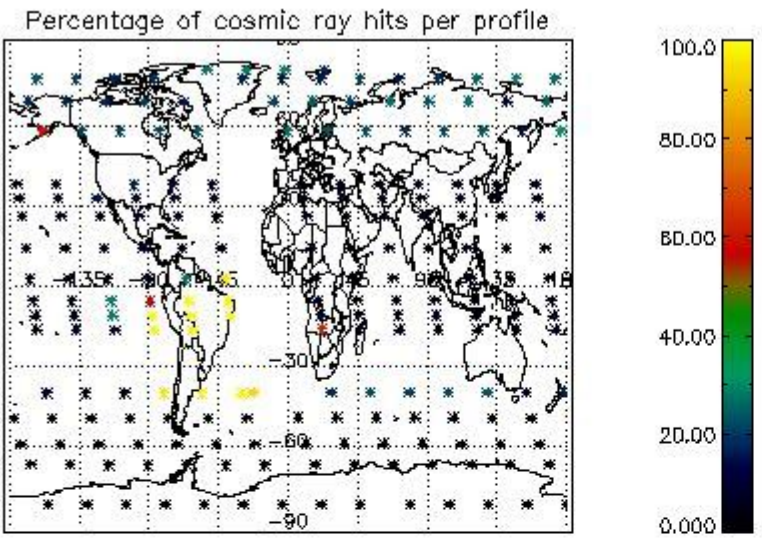


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

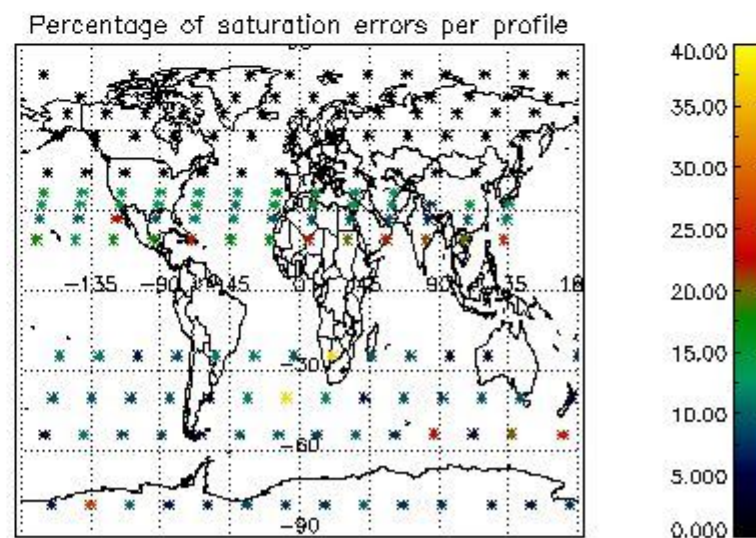
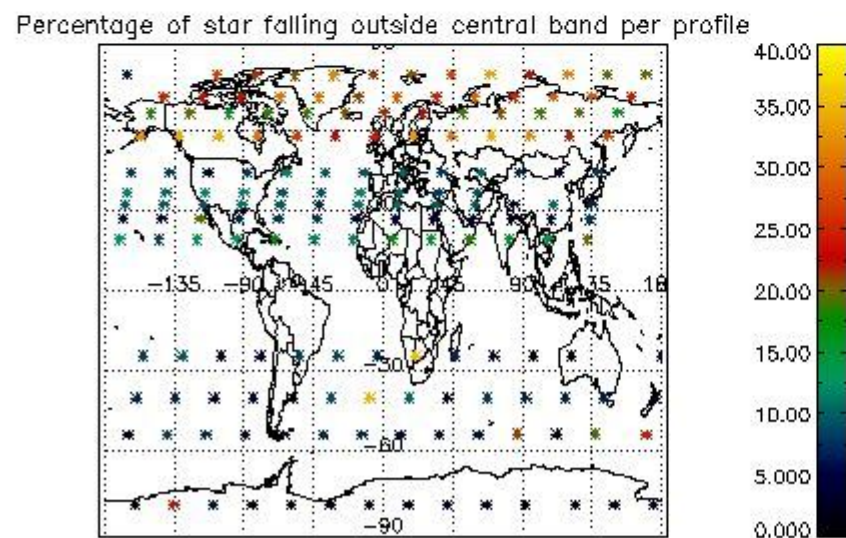
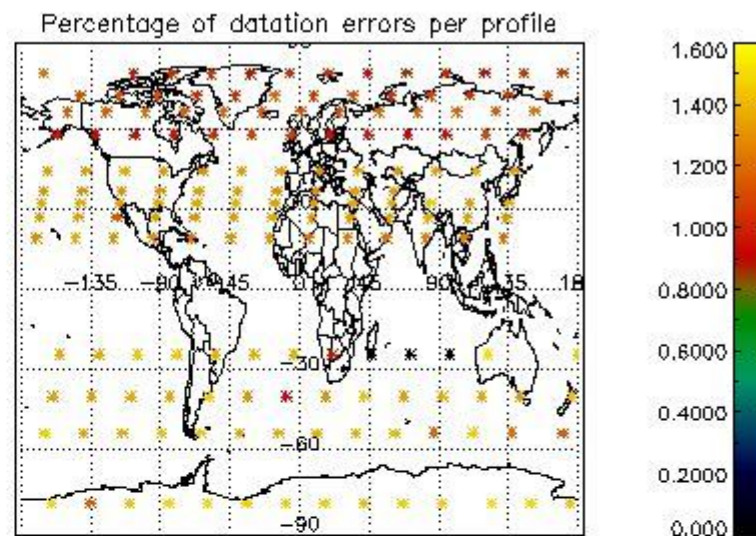
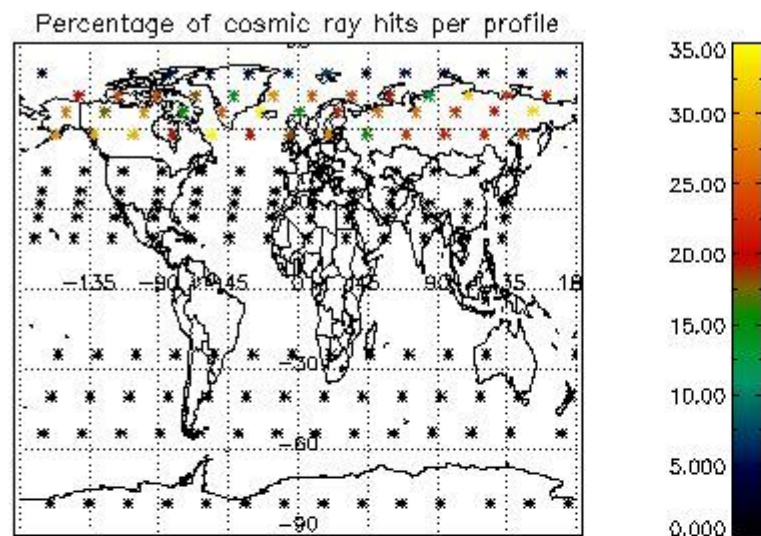


4.2 Plot quality information per product coming from level 1b processing (world map)

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

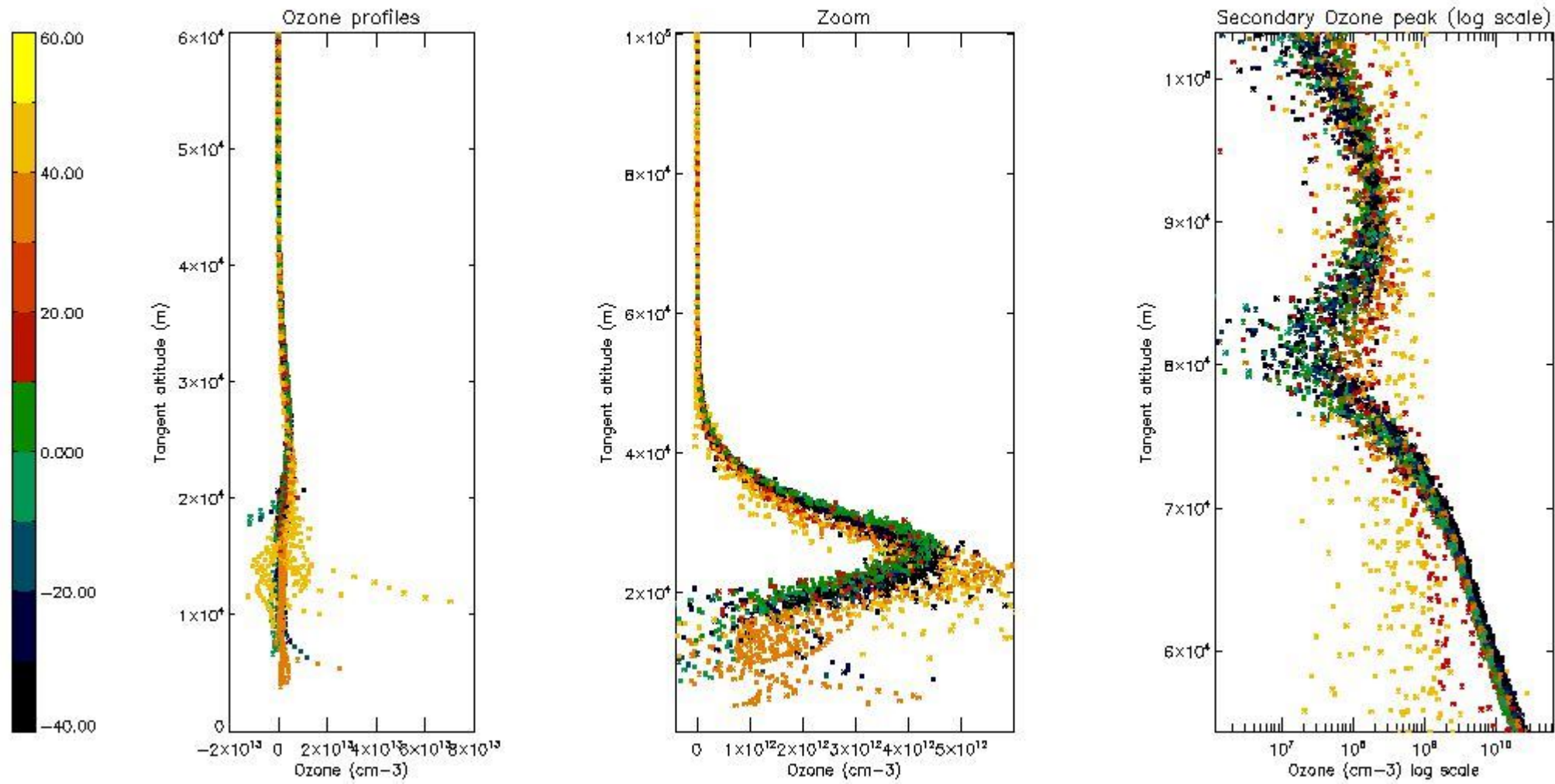
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	21

STD < 10	17
STD < 5	12

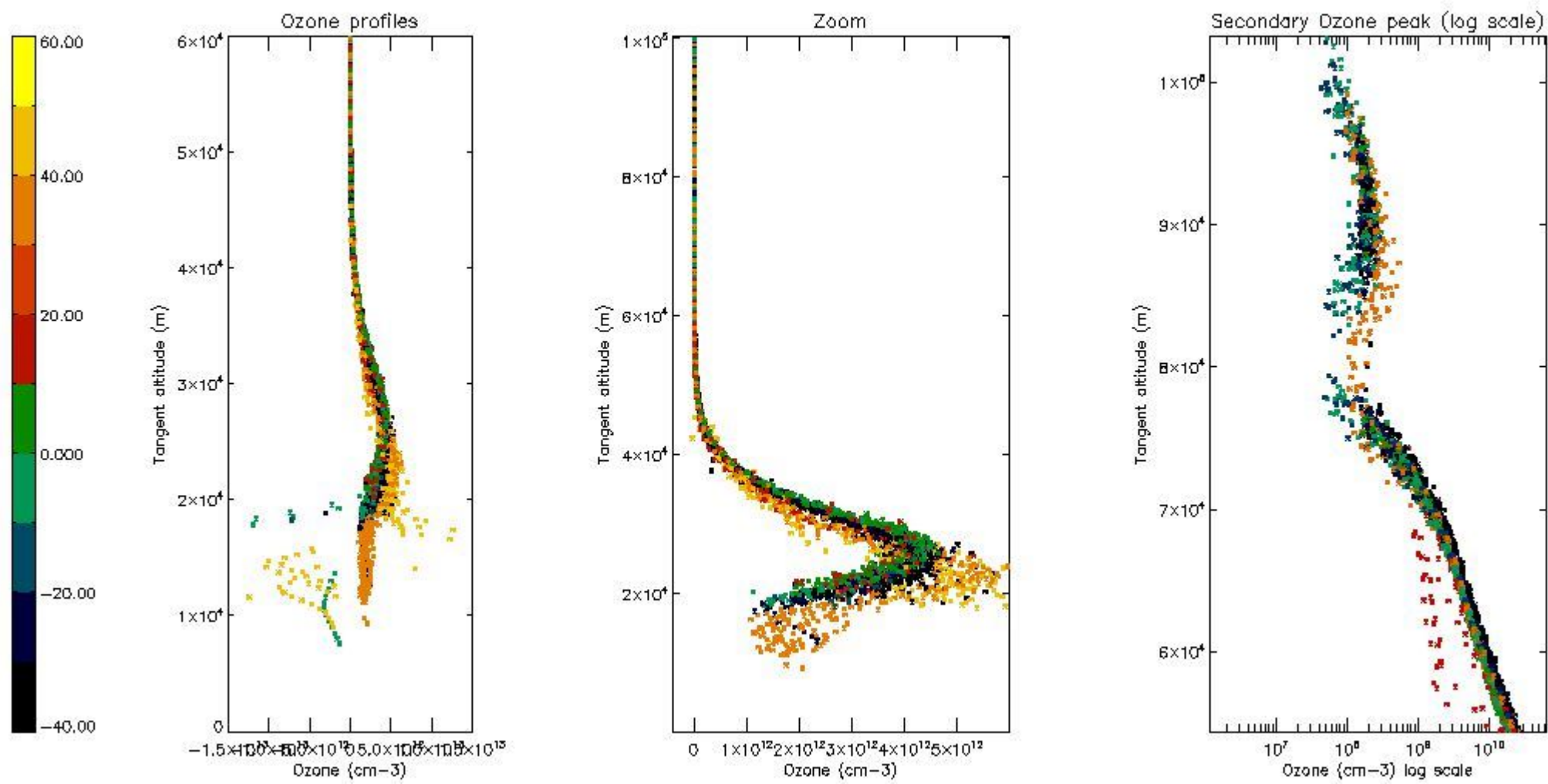
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



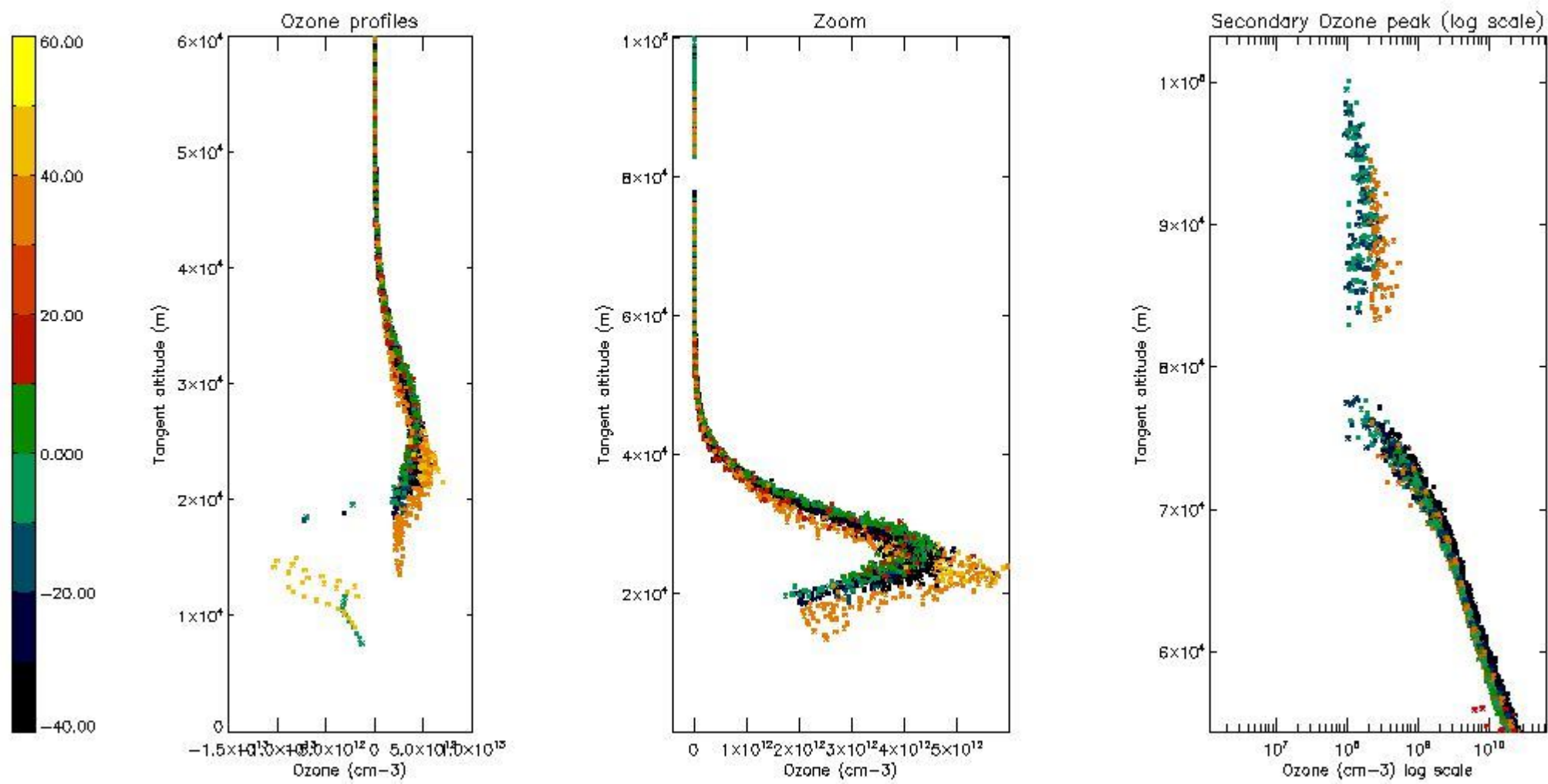
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



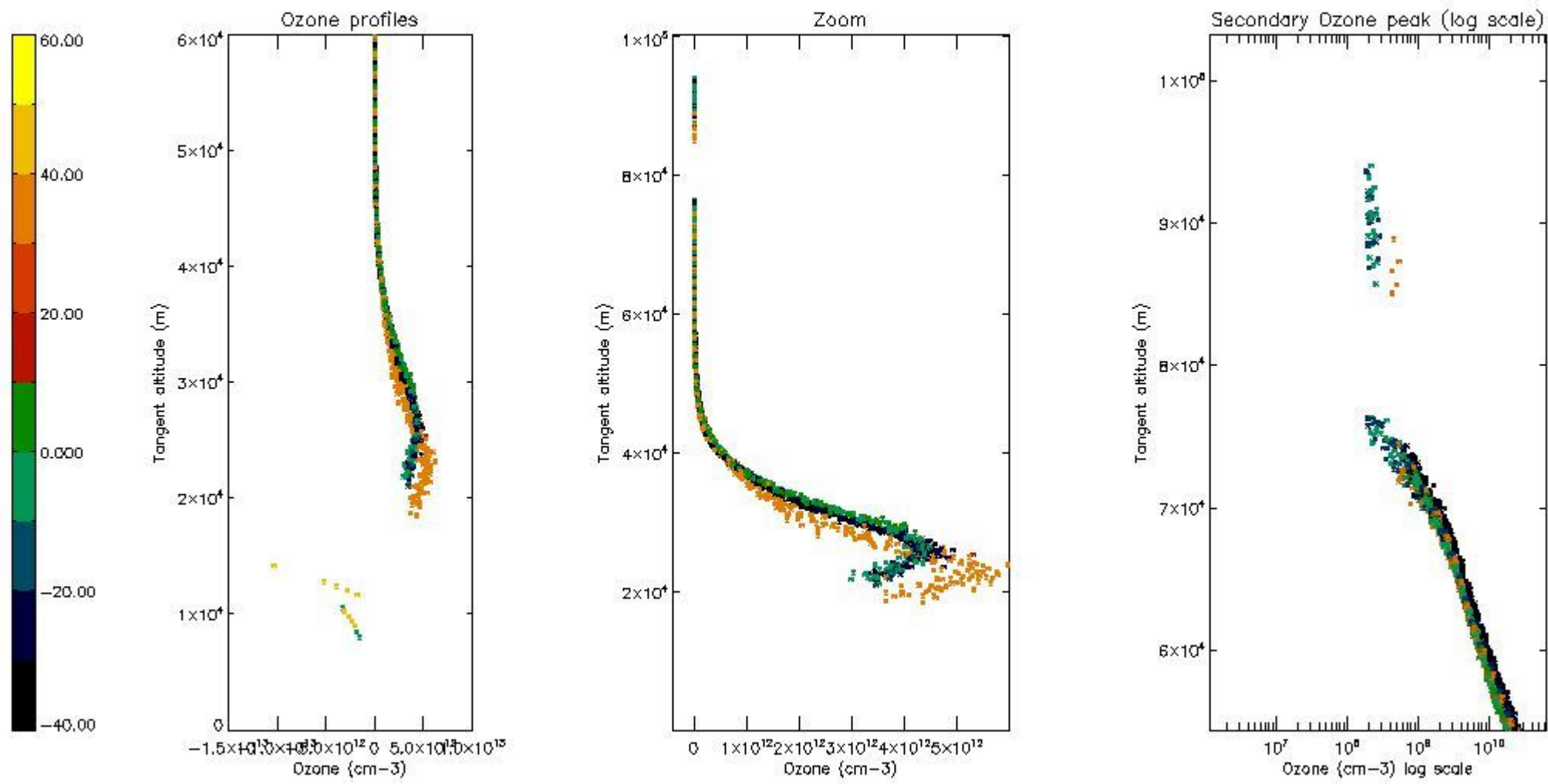
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



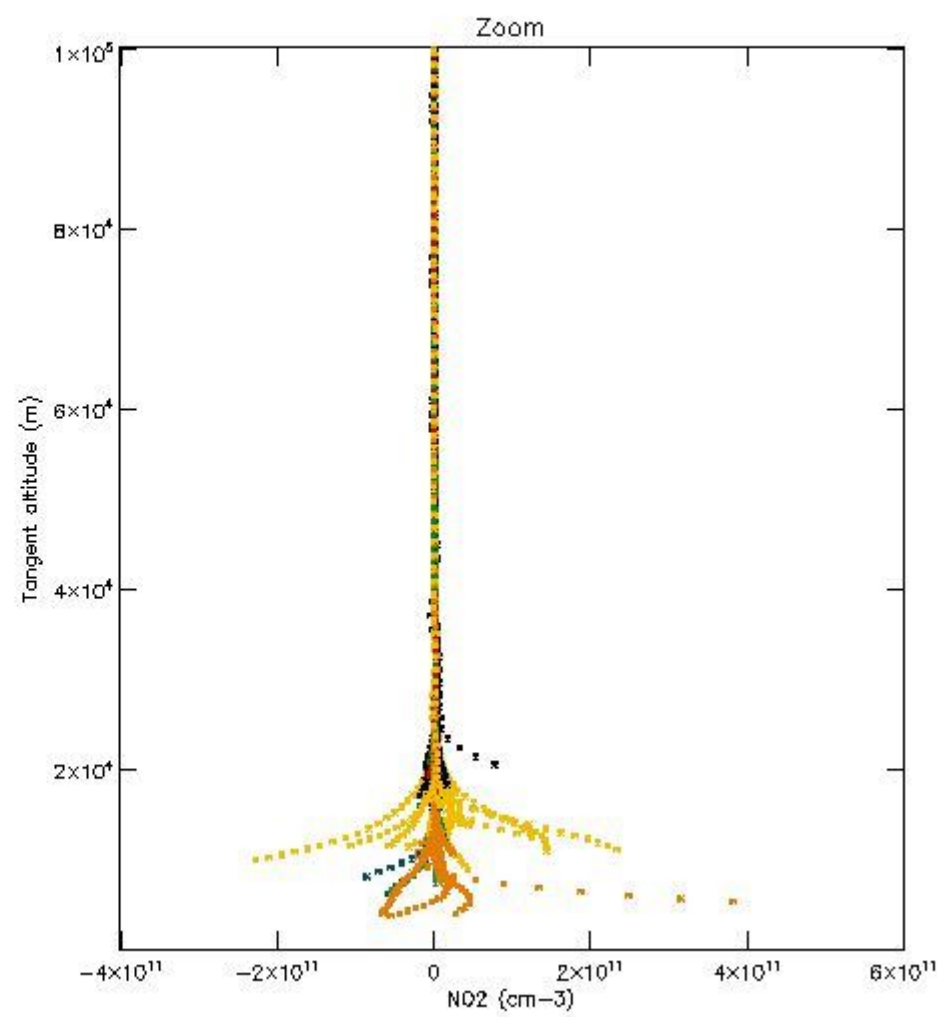
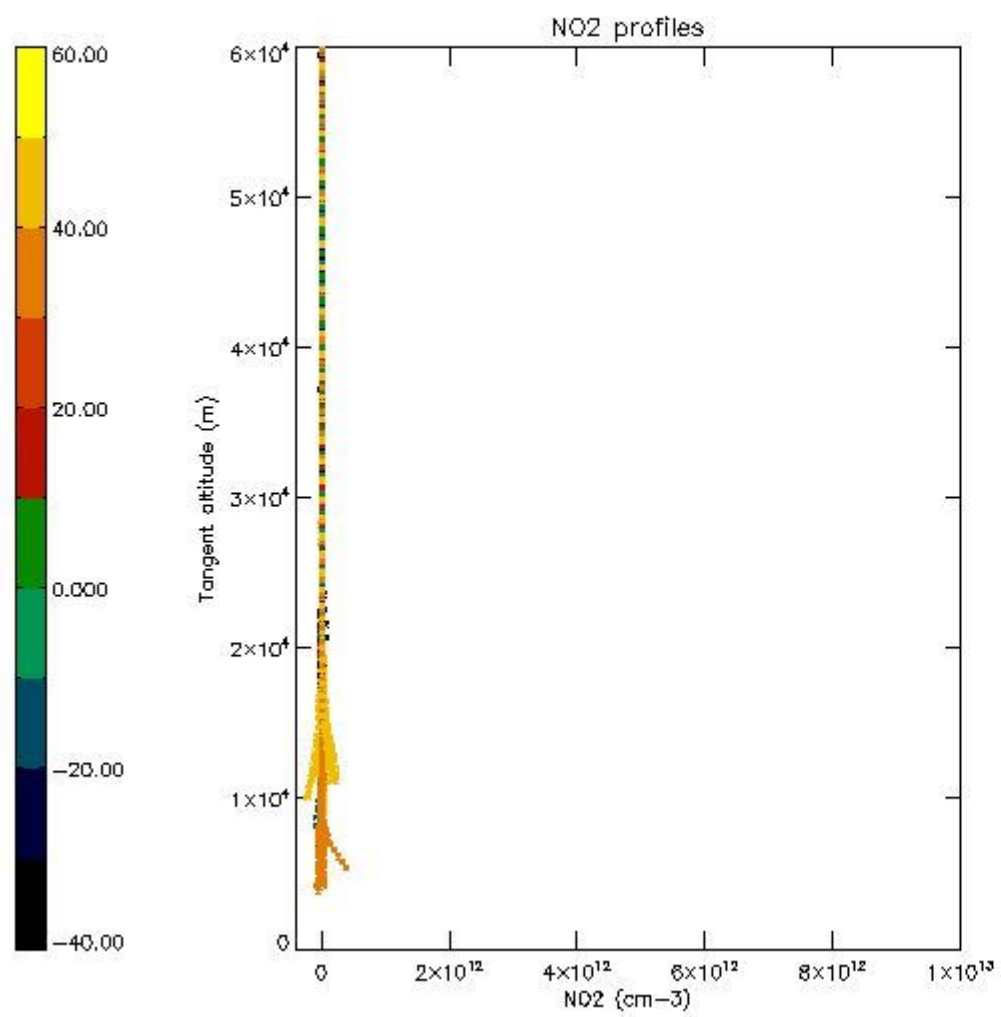
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



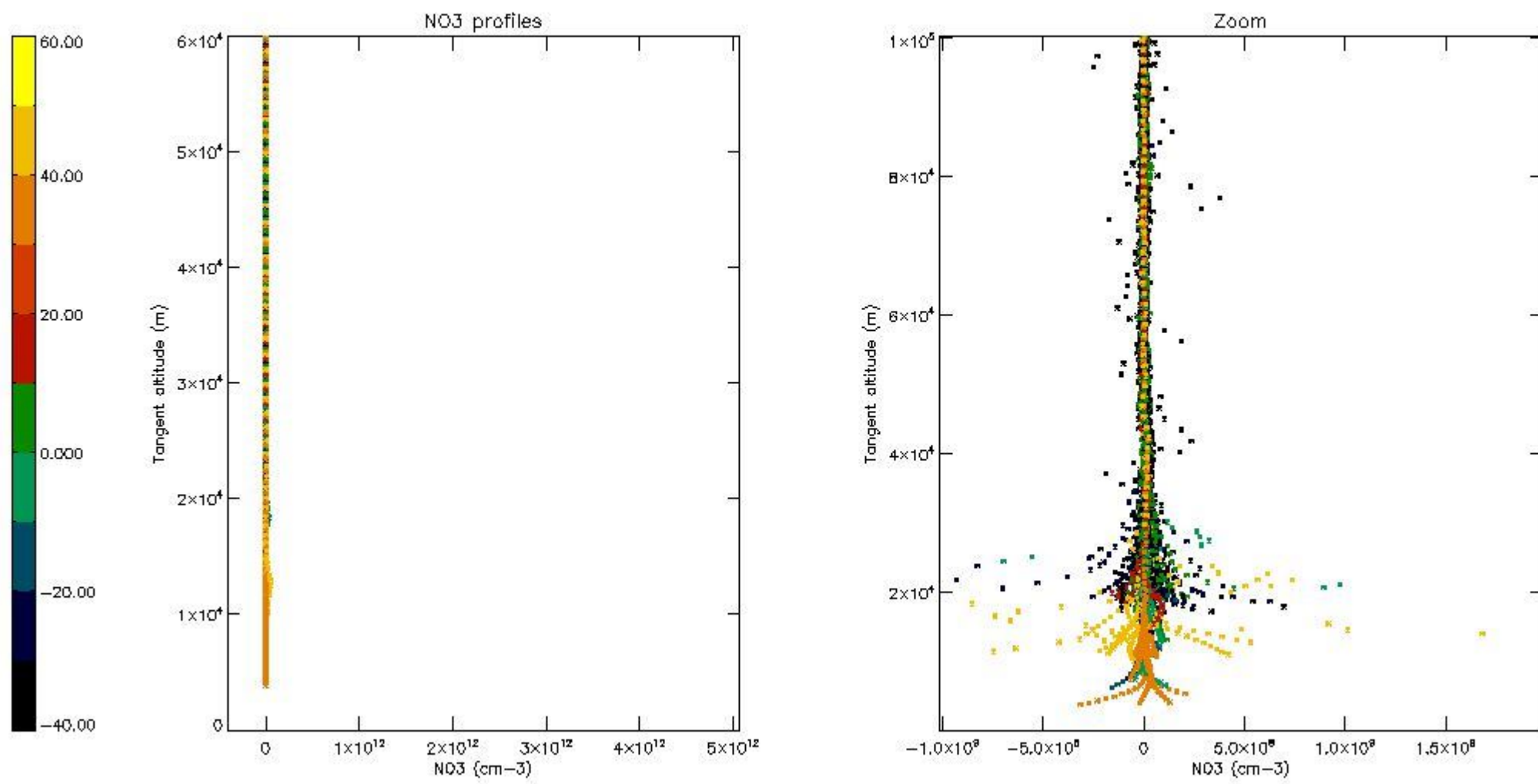
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



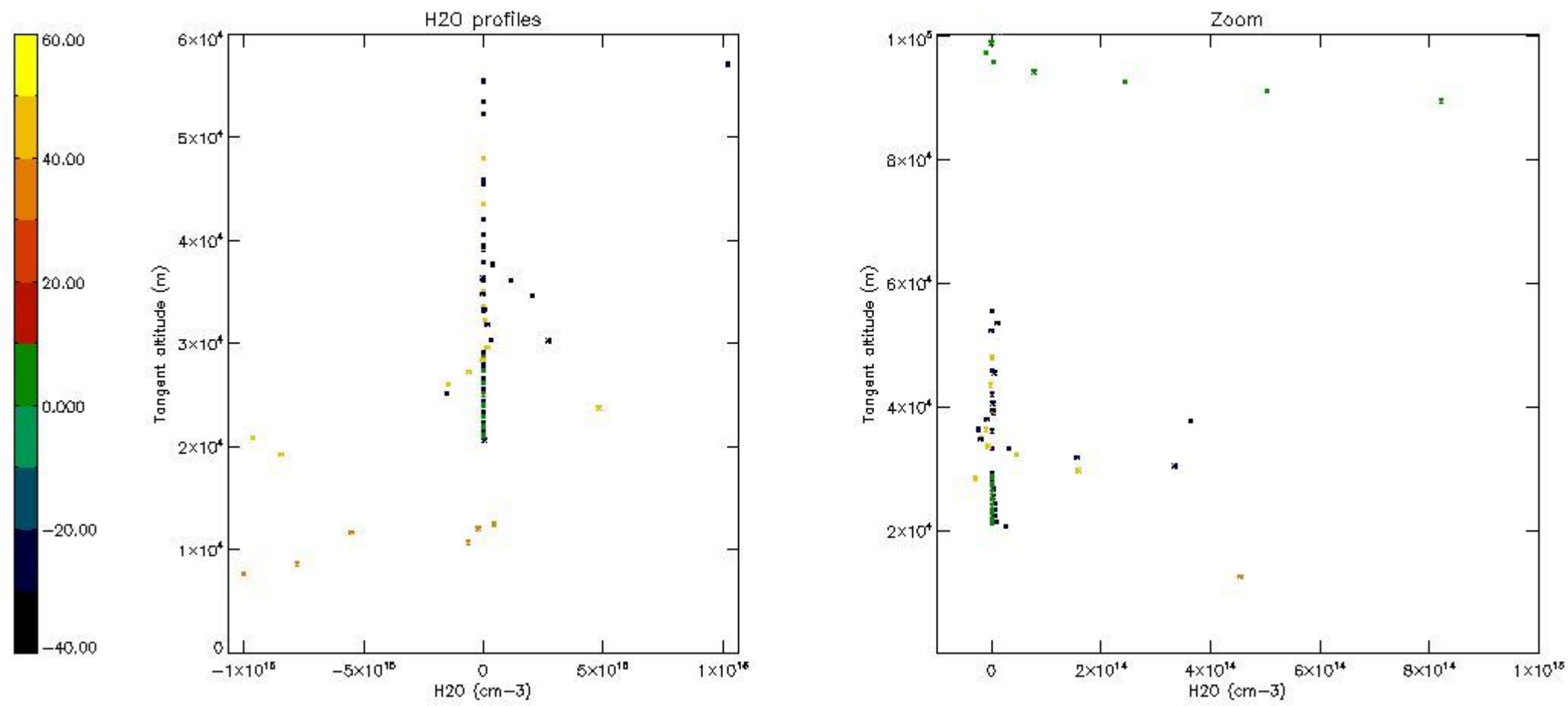
5.7 Plot NO3 profiles for all STD (dark without errors)

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	02-JAN-2007 00:01:27
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-JAN-2007 00:01:27
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-JAN-2007 00:01:27

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[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

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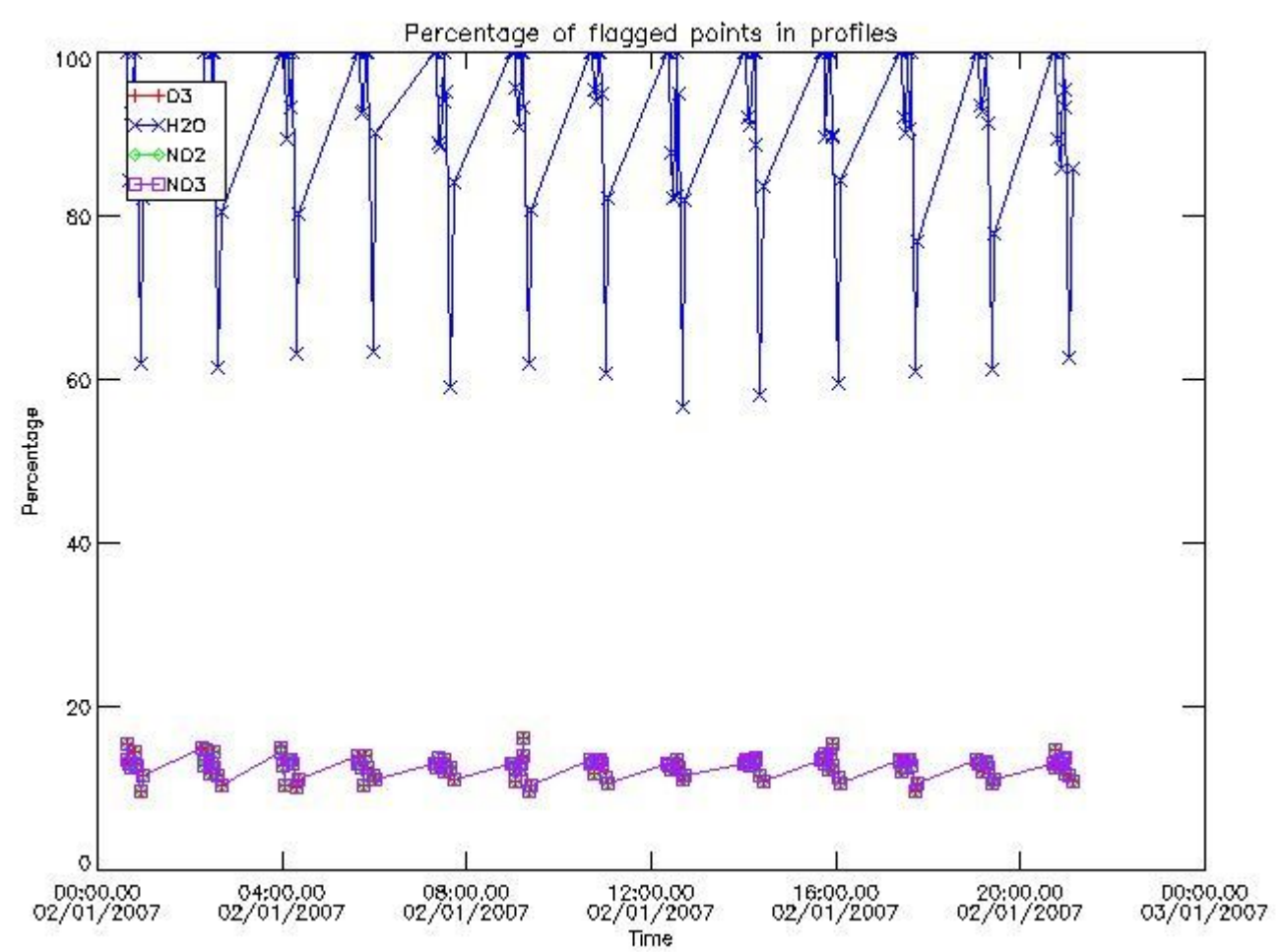
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Start time of products	02-01-2007 (02JAN2007 00:00:00)
Stop time of products	03-01-2007 (03JAN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	384
Nb of prods with errors	0

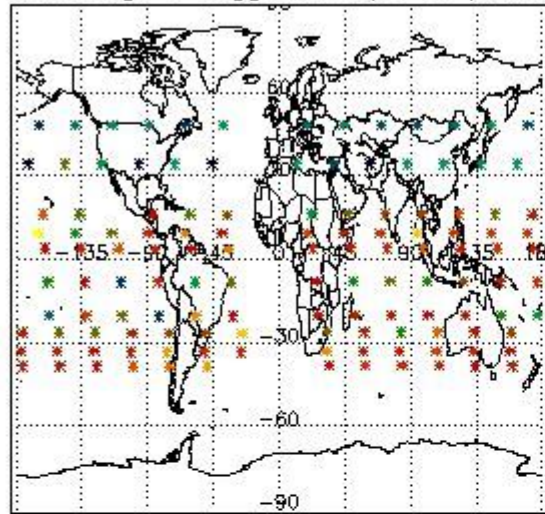
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070102_000127_000000382054_00202_25306_5098.N1	02-JAN-2007 00:01:27	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	25306	No
2	GOM_NL__2PRFIN20070102_000520_000000422054_00202_25306_5099.N1	02-JAN-2007 00:05:20	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	25306	No
3	GOM_NL__2PRFIN20070102_001341_000000342054_00202_25306_5100.N1	02-JAN-2007 00:13:41	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	25306	No
4	GOM_NL__2PRFIN20070102_001545_000000372054_00202_25306_5101.N1	02-JAN-2007 00:15:45	Bright	37.000	67	5Alp CrB	2.2210	11000.	74	25306	No
5	GOM_NL__2PRFIN20070102_002131_000000352054_00202_25306_5102.N1	02-JAN-2007 00:21:31	Bright	35.000	102	24Alp Ser	2.6000	4250.0	70	25306	No
6	GOM_NL__2PRFIN20070102_002349_000000342054_00202_25306_5103.N1	02-JAN-2007 00:23:49	Bright	34.000	120	1Del Oph	2.7340	3200.0	68	25306	No
7	GOM_NL__2PRFIN20070102_002636_000000372054_00202_25306_5104.N1	02-JAN-2007 00:26:36	Bright	37.000	104	27Bet Lib	2.6140	13100.	74	25306	No
8	GOM_NL__2PRFIN20070102_002917_000000442054_00202_25306_5105.N1	02-JAN-2007 00:29:17	Twilight	43.500	122	9Alp2Lib	2.7470	9700.0	87	25306	No
9	GOM_NL__2PRFIN20070102_003726_000000382054_00202_25306_5106.N1	02-JAN-2007 00:37:26	Dark	38.000	78	Alp Lup	2.3040	28000.	76	25306	No
10	GOM_NL__2PRFIN20070102_003857_000000402054_00202_25306_5107.N1	02-JAN-2007 00:38:57	Dark	39.500	95	Zet Cen	2.5450	26000.	79	25306	No
11	GOM_NL__2PRFIN20070102_004117_000000392054_00203_25307_5305.N1	02-JAN-2007 00:41:17	Dark	39.000	10	Bet Cen	0.61000	28000.	78	25307	No
12	GOM_NL__2PRFIN20070102_004428_000000412054_00203_25307_5306.N1	02-JAN-2007 00:44:28	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	25307	No
13	GOM_NL__2PRFIN20070102_004750_000000392054_00203_25307_5307.N1	02-JAN-2007 00:47:50	Dark	38.500	124	The Car	2.7640	30000.	77	25307	No
14	GOM_NL__2PRFIN20070102_004944_000000392054_00203_25307_5308.N1	02-JAN-2007 00:49:44	Dark	39.000	29	Bet Car	1.6720	10200.	78	25307	No
15	GOM_NL__2PRFIN20070102_005110_000000402054_00203_25307_5309.N1	02-JAN-2007 00:51:10	Dark	40.000	71	lot Car	2.2460	7700.0	80	25307	No
16	GOM_NL__2PRFIN20070102_005655_000000532054_00203_25307_5310.N1	02-JAN-2007 00:56:55	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	25307	No
17	GOM_NL__2PRFIN20070102_010010_000000482054_00203_25307_5311.N1	02-JAN-2007 01:00:10	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	25307	No
18	GOM_NL__2PRFIN20070102_010257_000000452054_00203_25307_5312.N1	02-JAN-2007 01:02:57	Straylight	44.500	23	21Eps CMa	1.5020	26000.	89	25307	No
19	GOM_NL__2PRFIN20070102_010656_000000412054_00203_25307_5313.N1	02-JAN-2007 01:06:56	Straylight	41.000	1	9Alp CMa	-1.4400	11000.	82	25307	No
20	GOM_NL__2PRFIN20070102_011004_000000462054_00203_25307_5314.N1	02-JAN-2007 01:10:04	Straylight	45.500	7	19Bet Ori	0.10000	14000.	91	25307	No
21	GOM_NL__2PRFIN20070102_011155_000000422054_00203_25307_5315.N1	02-JAN-2007 01:11:55	Straylight	41.500	30	46Eps Ori	1.6940	30000.	83	25307	No
22	GOM_NL__2PRFIN20070102_011425_000000502054_00203_25307_5316.N1	02-JAN-2007 01:14:25	Twilight	49.500	14	58Alp Ori	0.87000	3000.0	99	25307	No
23	GOM_NL__2PRFIN20070102_011823_000000382054_00203_25307_5317.N1	02-JAN-2007 01:18:23	Bright	37.500	176	23Zet Tau	3.0200	22000.	75	25307	No
24	GOM_NL__2PRFIN20070102_012146_000000372054_00203_25307_5318.N1	02-JAN-2007 01:21:46	Bright	36.500	114	3lot Aur	2.6930	4600.0	73	25307	No
25	GOM_NL__2PRFIN20070102_012318_000000392054_00203_25307_5319.N1	02-JAN-2007 01:23:18	Bright	38.500	107	37The Aur	2.6490	11000.	77	25307	No
26	GOM_NL__2PRFIN20070102_012525_000000432054_00203_25307_5320.N1	02-JAN-2007 01:25:25	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	25307	No
27	GOM_NL__2PRFIN20070102_013736_000000332054_00203_25307_5321.N1	02-JAN-2007 01:37:36	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	25307	No
28	GOM_NL__2PRFIN20070102_014203_000000372054_00203_25307_5322.N1	02-JAN-2007 01:42:03	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	25307	No
29	GOM_NL__2PRFIN20070102_014555_000000342054_00203_25307_5323.N1	02-JAN-2007 01:45:55	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	25307	No
30	GOM_NL__2PRFIN20070102_015417_000000342054_00203_25307_5324.N1	02-JAN-2007 01:54:17	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	25307	No
31	GOM_NL__2PRFIN20070102_015621_000000362054_00203_25307_5325.N1	02-JAN-2007 01:56:21	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	25307	No
32	GOM_NL__2PRFIN20070102_020207_000000362054_00203_25307_5326.N1	02-JAN-2007 02:02:07	Bright	36.000	102	24Alp Ser	2.6000	4250.0	72	25307	No
33	GOM_NL__2PRFIN20070102_020426_000000332054_00203_25307_5327.N1	02-JAN-2007 02:04:26	Bright	33.000	120	1Del Oph	2.7340	3200.0	66	25307	No
34	GOM_NL__2PRFIN20070102_020713_000000382054_00203_25307_5328.N1	02-JAN-2007 02:07:13	Bright	37.500	104	27Bet Lib	2.6140	13100.	75	25307	No
35	GOM_NL__2PRFIN20070102_020953_000000452054_00203_25307_5329.N1	02-JAN-2007 02:09:53	Twilight	44.500	122	9Alp2Lib	2.7470	9700.0	89	25307	No
36	GOM_NL__2PRFIN20070102_021634_000000382054_00203_25307_5330.N1	02-JAN-2007 02:16:34	Dark	37.500	109	Bet Lup	2.6770	26000.	75	25307	No
37	GOM_NL__2PRFIN20070102_021802_000000382054_00203_25307_5331.N1	02-JAN-2007 02:18:02	Dark	38.000	78	Alp Lup	2.3040	28000.	76	25307	No
38	GOM_NL__2PRFIN20070102_021933_000000402054_00203_25307_5332.N1	02-JAN-2007 02:19:33	Dark	40.000	95	Zet Cen	2.5450	26000.	80	25307	No
39	GOM_NL__2PRFIN20070102_022154_000000422054_00204_25308_5313.N1	02-JAN-2007 02:21:54	Dark	41.500	10	Bet Cen	0.61000	28000.	83	25308	No
40	GOM_NL__2PRFIN20070102_022505_000000432054_00204_25308_5314.N1	02-JAN-2007 02:25:05	Dark	43.000	12	Alp1Cru	0.77500	30000.	86	25308	No
41	GOM_NL__2PRFIN20070102_022826_000000392054_00204_25308_5315.N1	02-JAN-2007 02:28:26	Dark	39.000	124	The Car	2.7640	30000.	78	25308	No
42	GOM_NL__2PRFIN20070102_023021_000000392054_00204_25308_5316.N1	02-JAN-2007 02:30:21	Dark	38.500	29	Bet Car	1.6720	10200.	77	25308	No

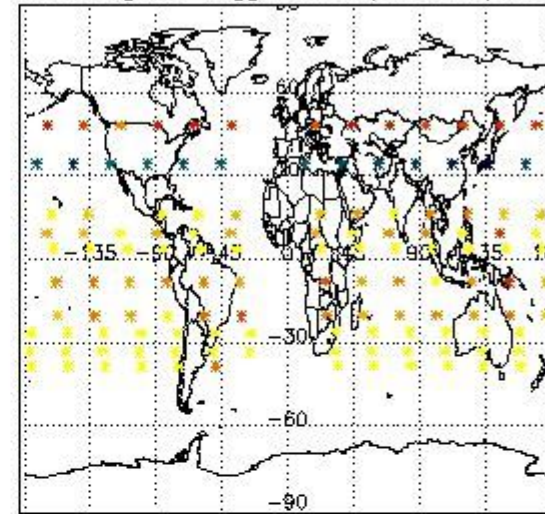


3.2 Plot quality information per product (world map)

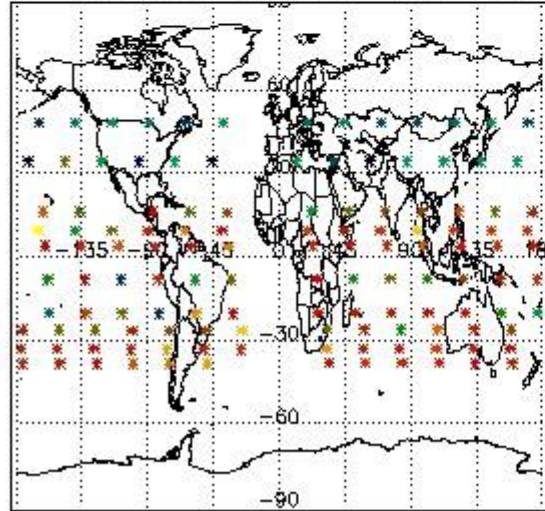
Percentage of flagged data per O3 profile



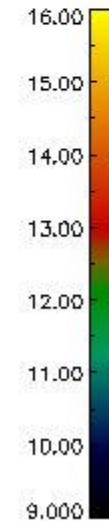
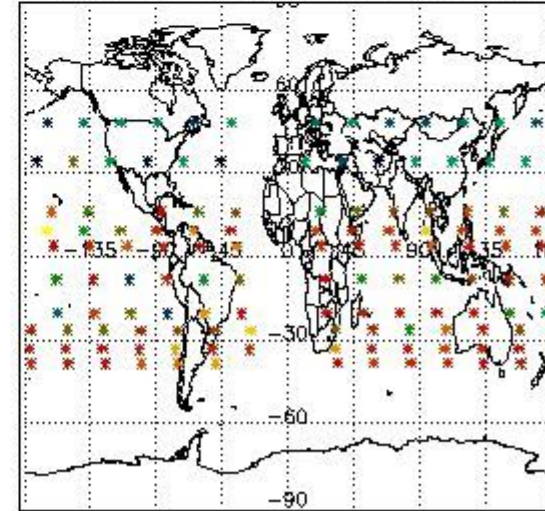
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

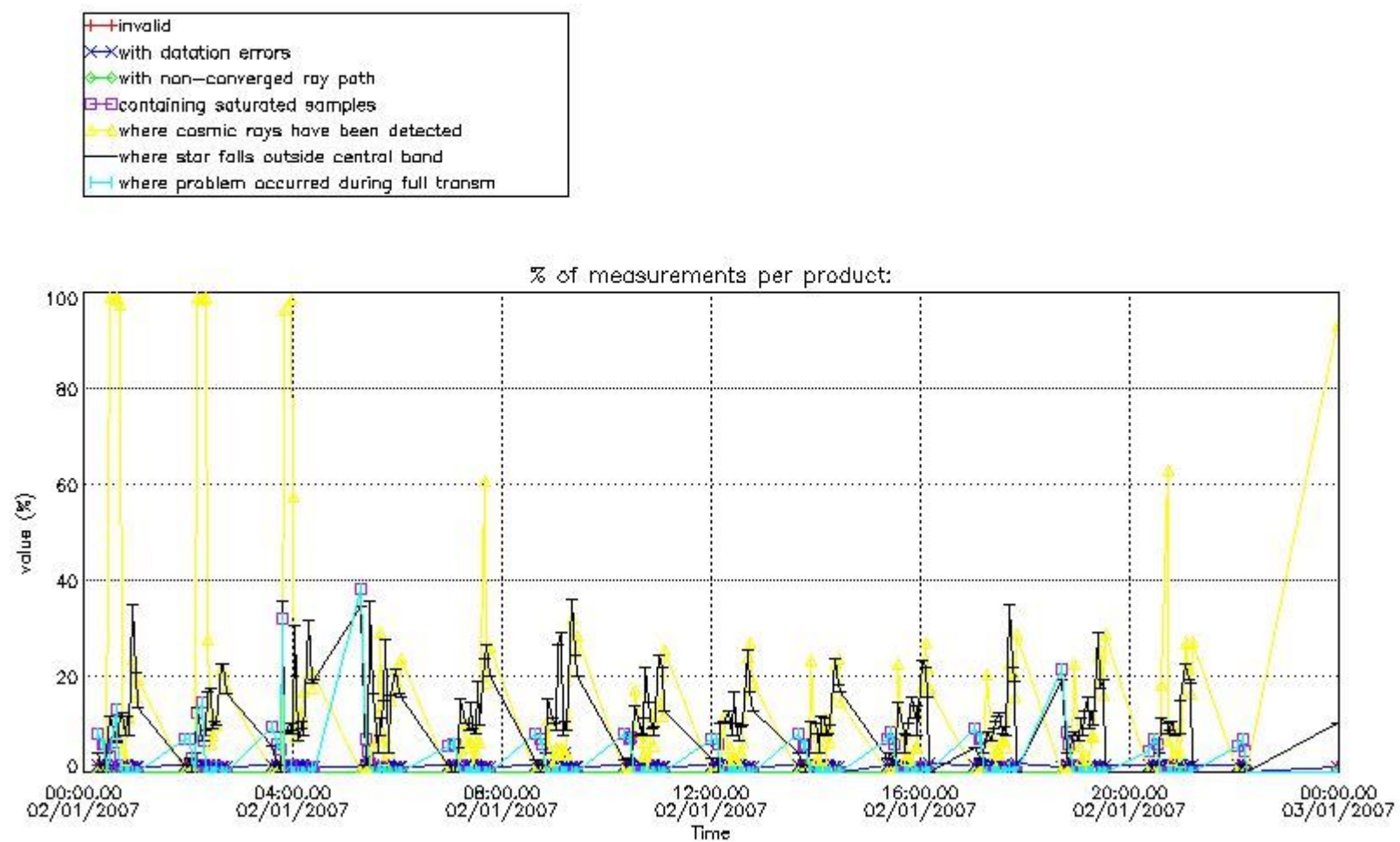


4. Level 1 quality information per product

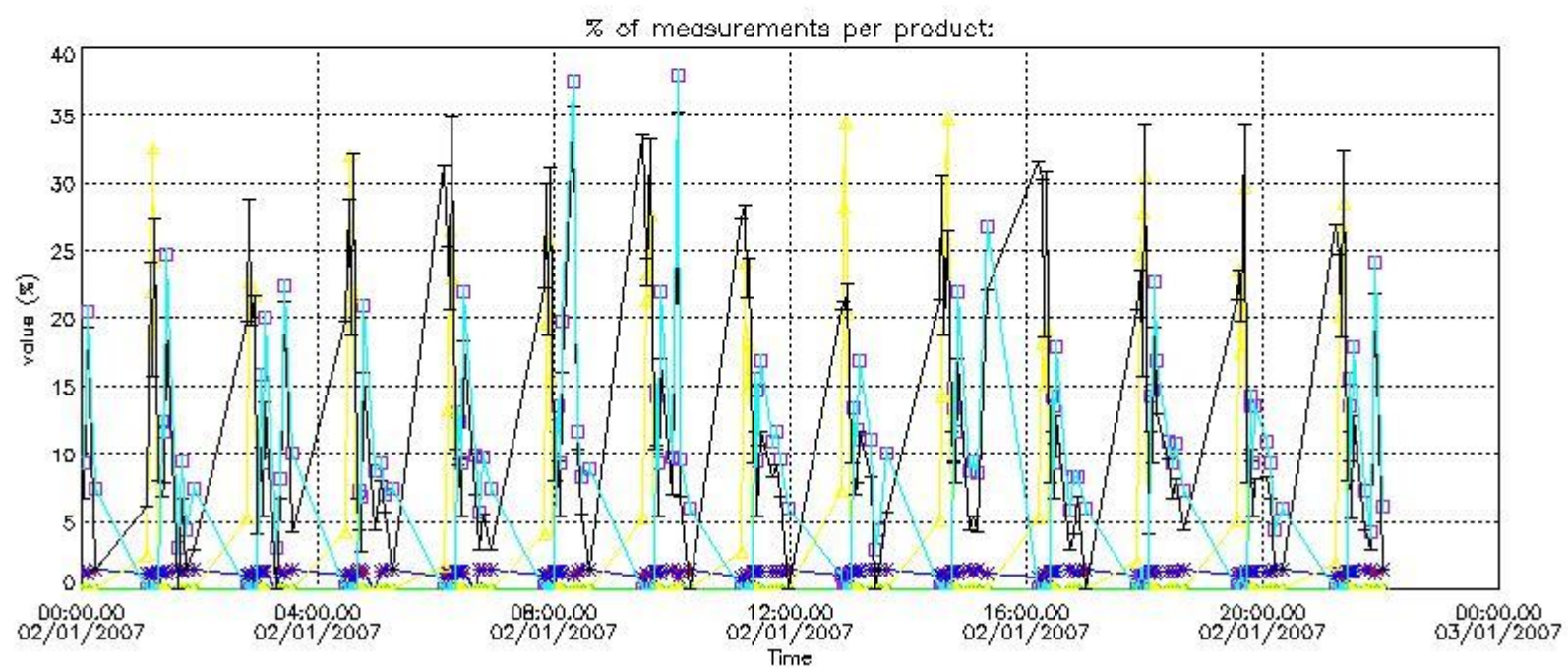
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



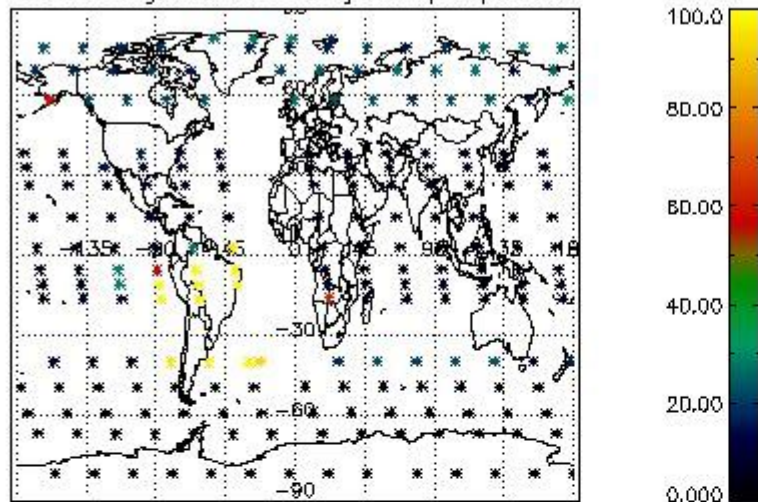
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



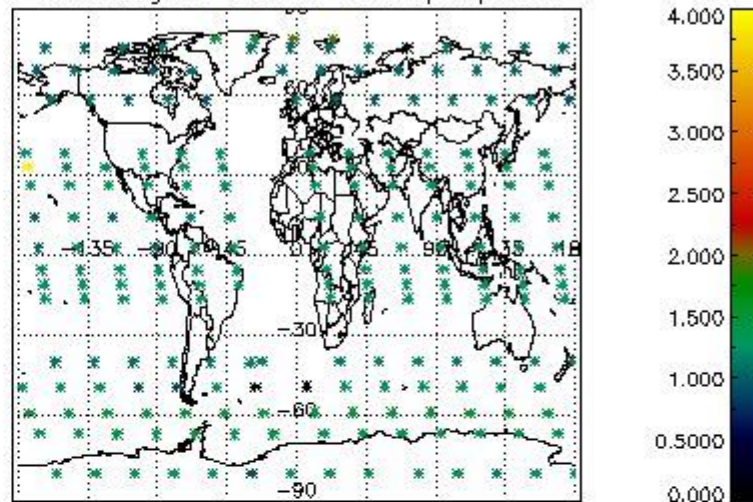
4.2 Plot quality information per product coming from level 1b processing (world map)

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

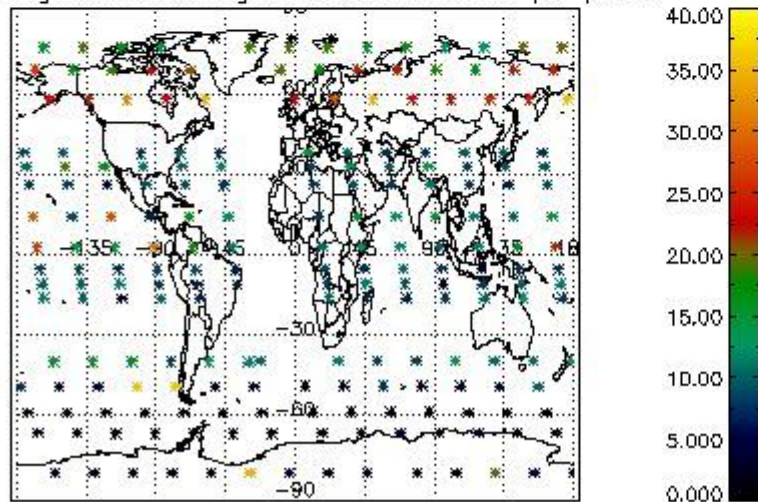
Percentage of cosmic ray hits per profile



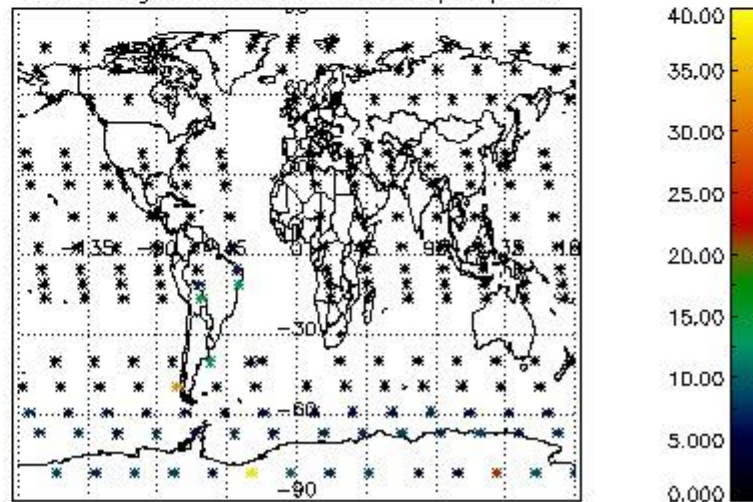
Percentage of datation errors per profile



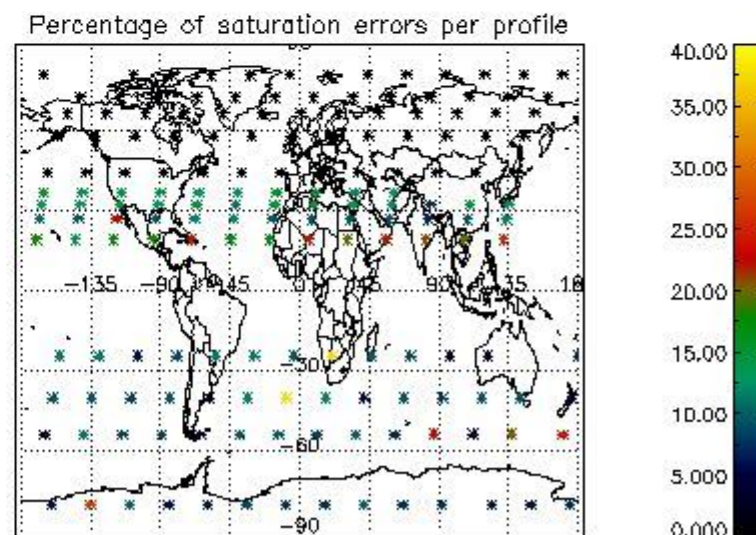
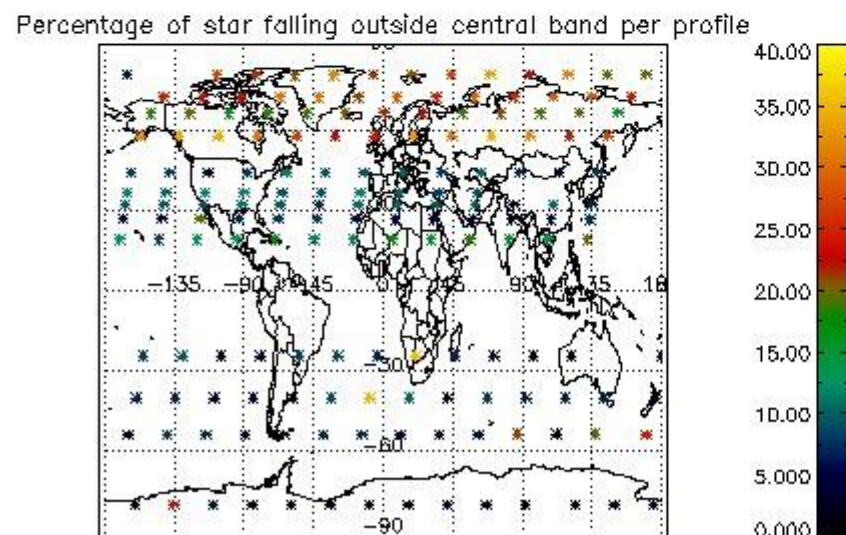
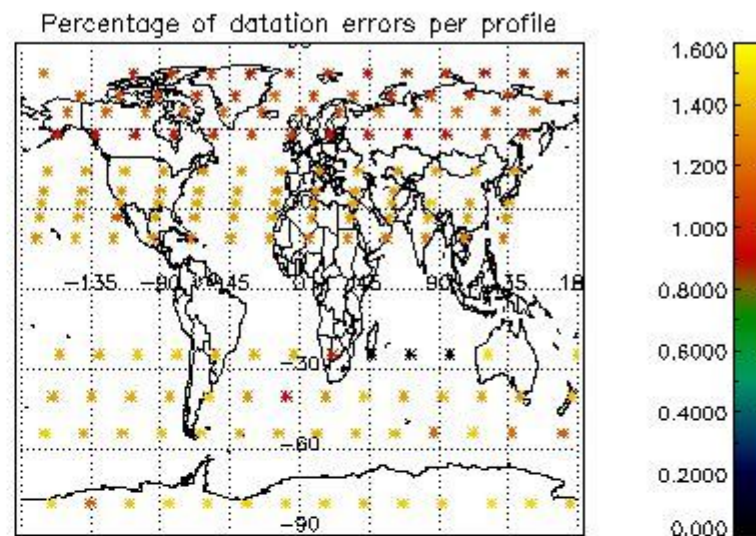
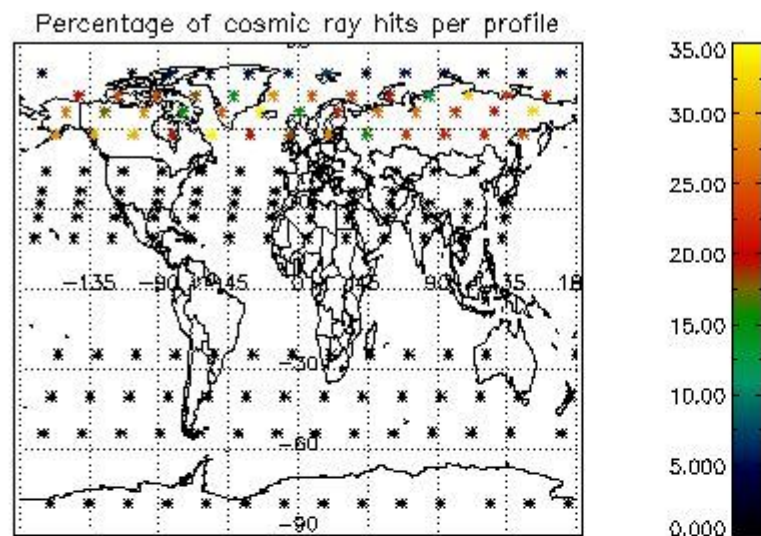
Percentage of star falling outside central band per profile



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

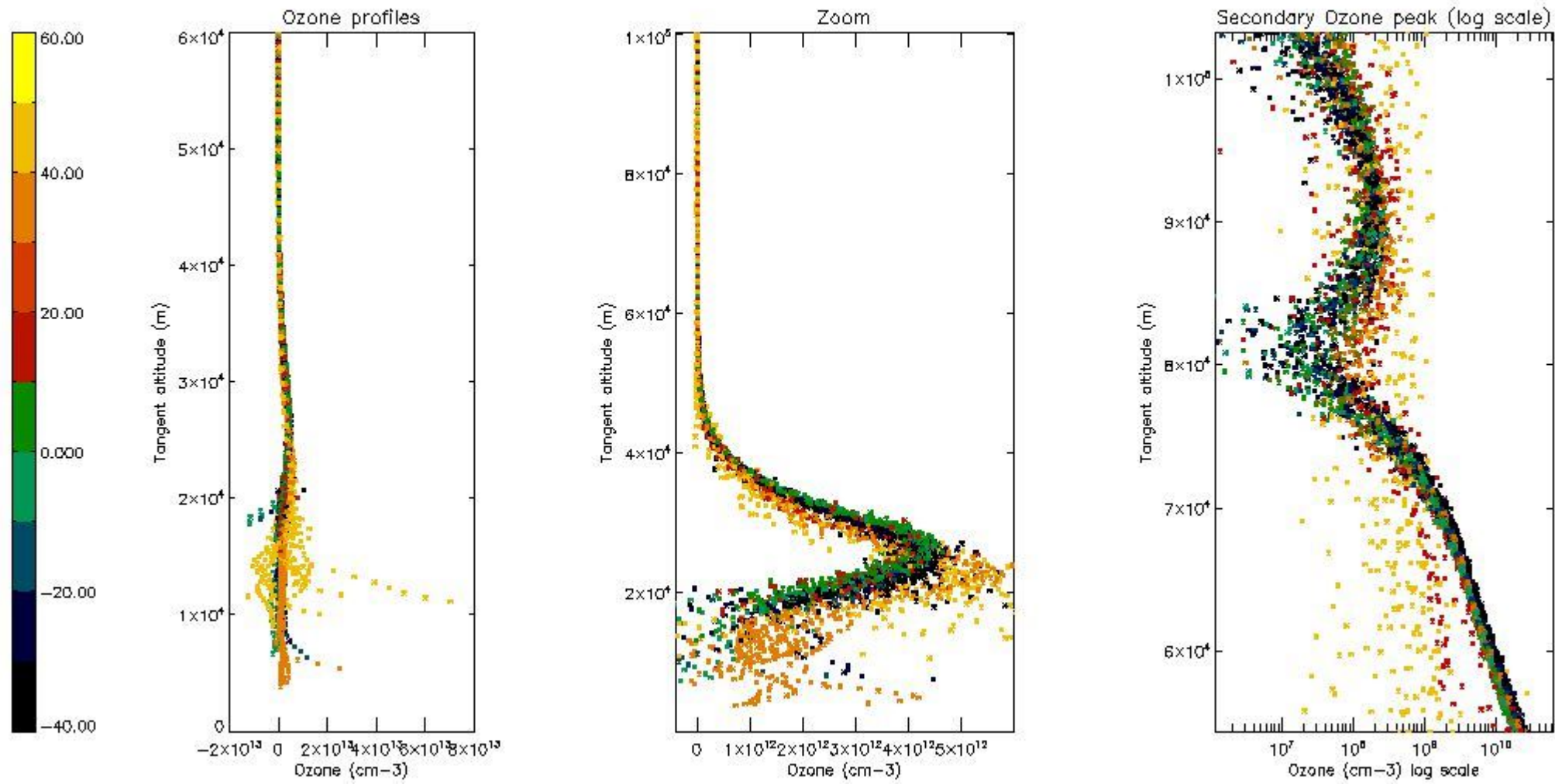
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	21

STD < 10	17
STD < 5	12

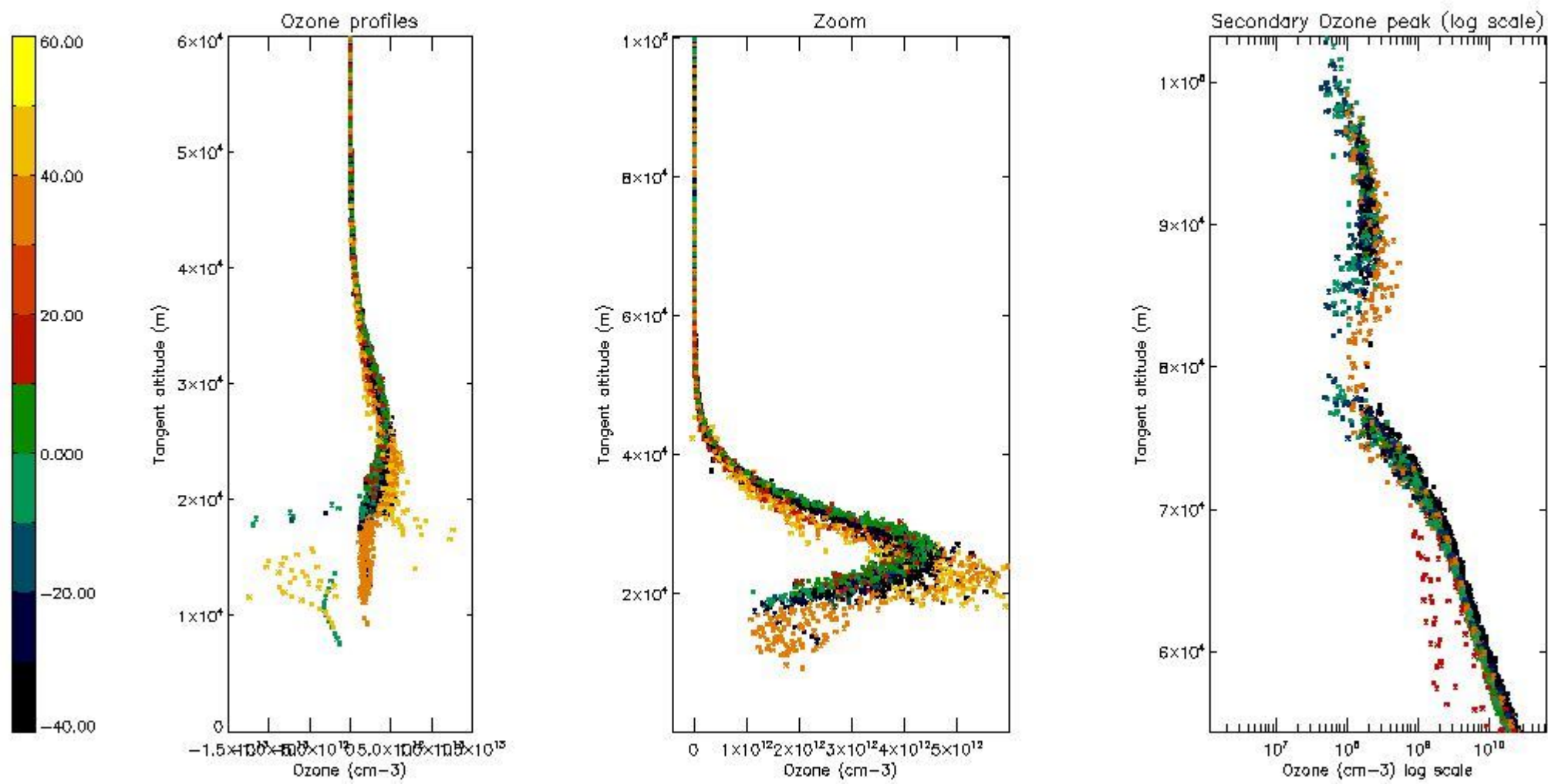
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



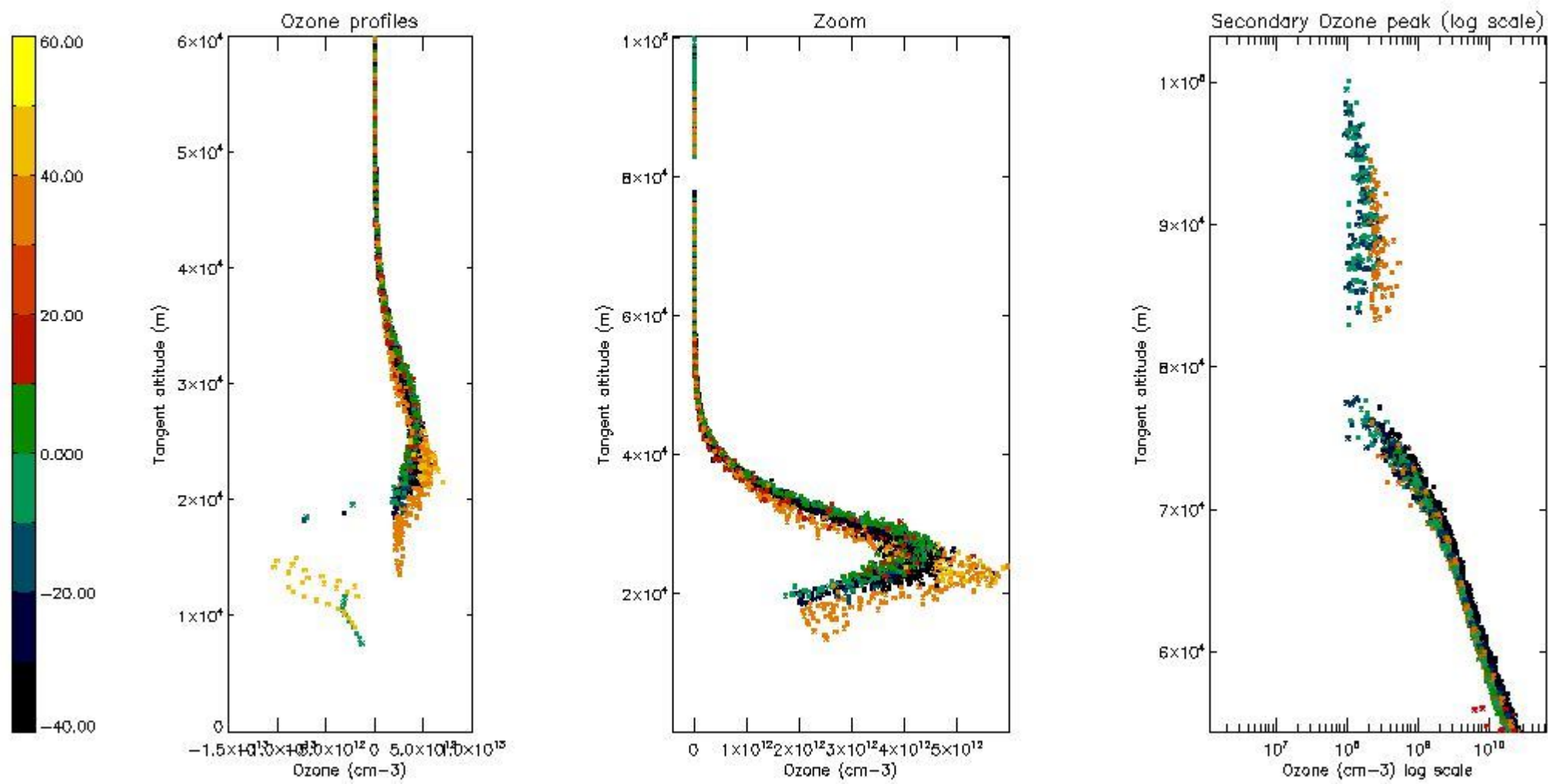
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



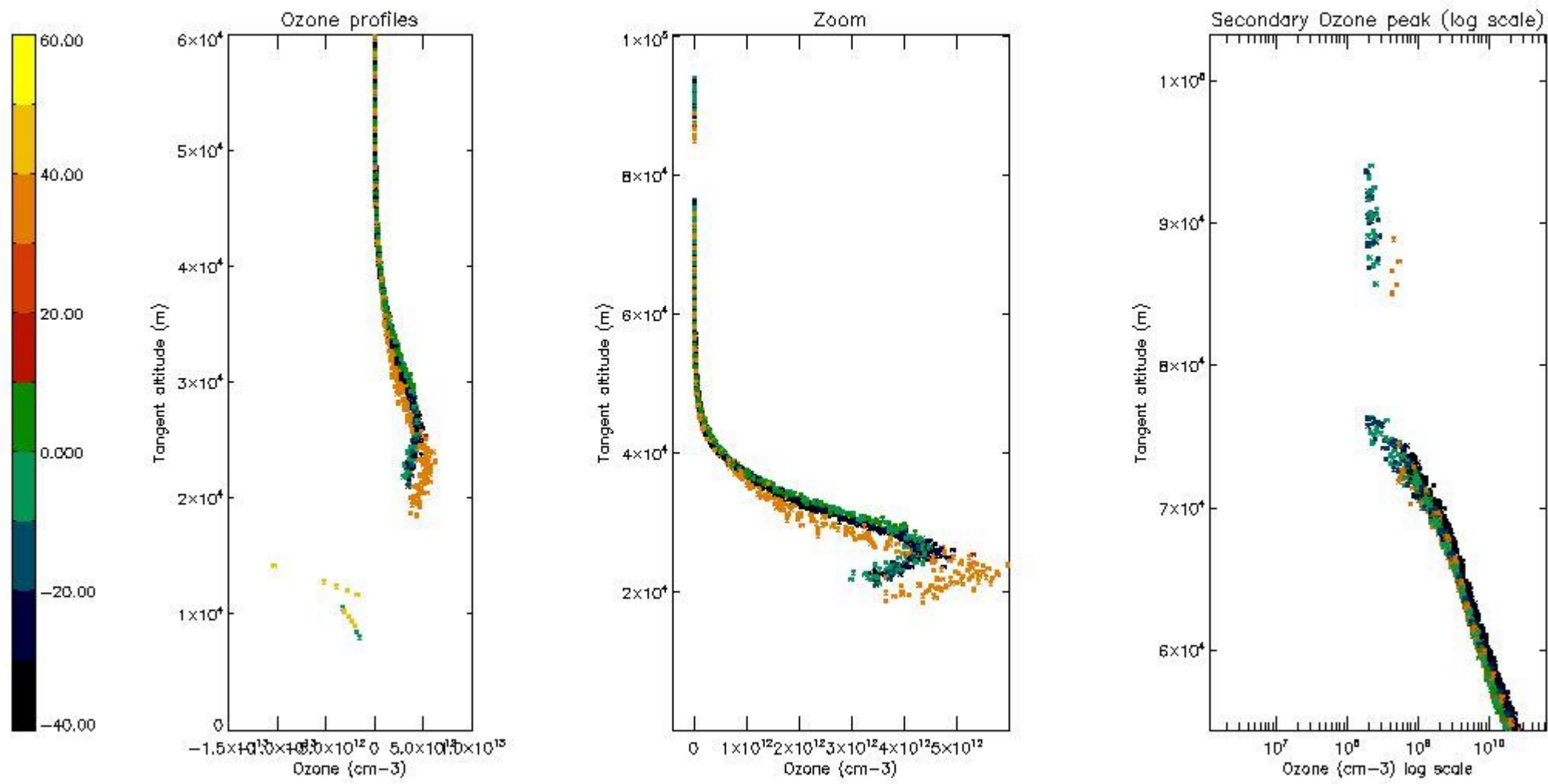
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



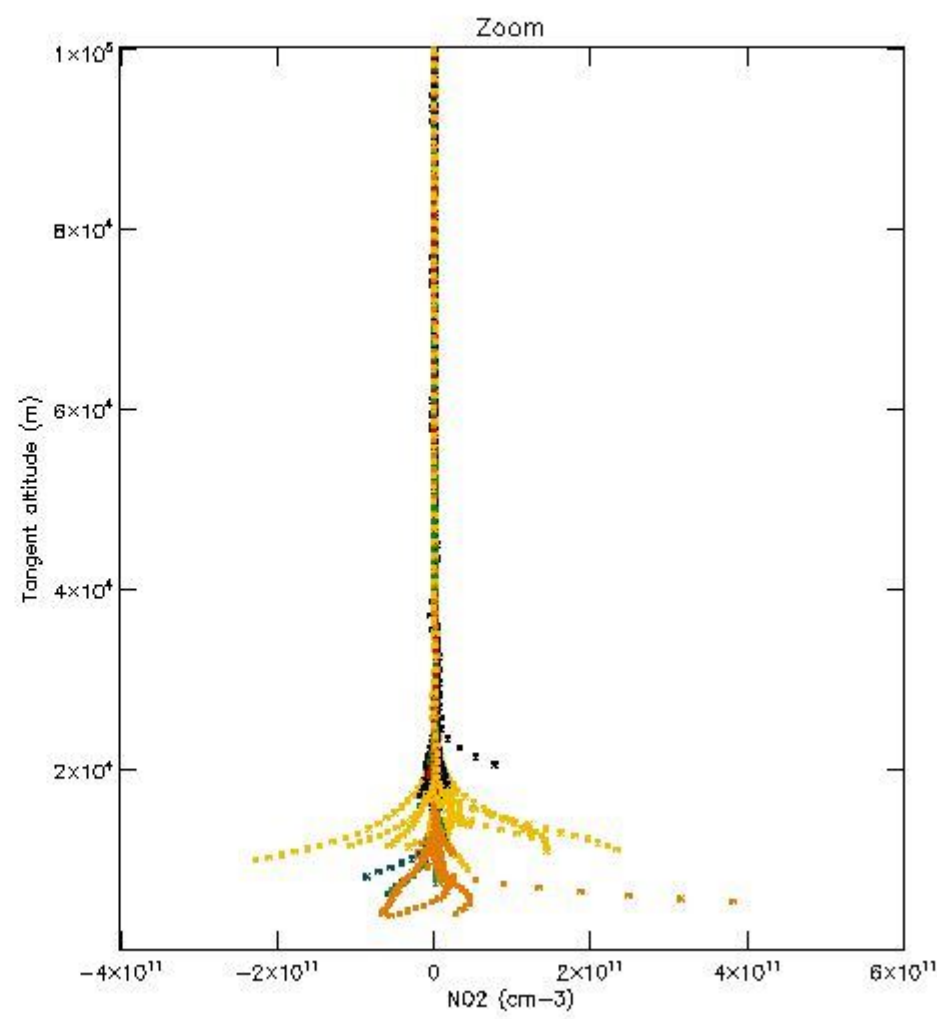
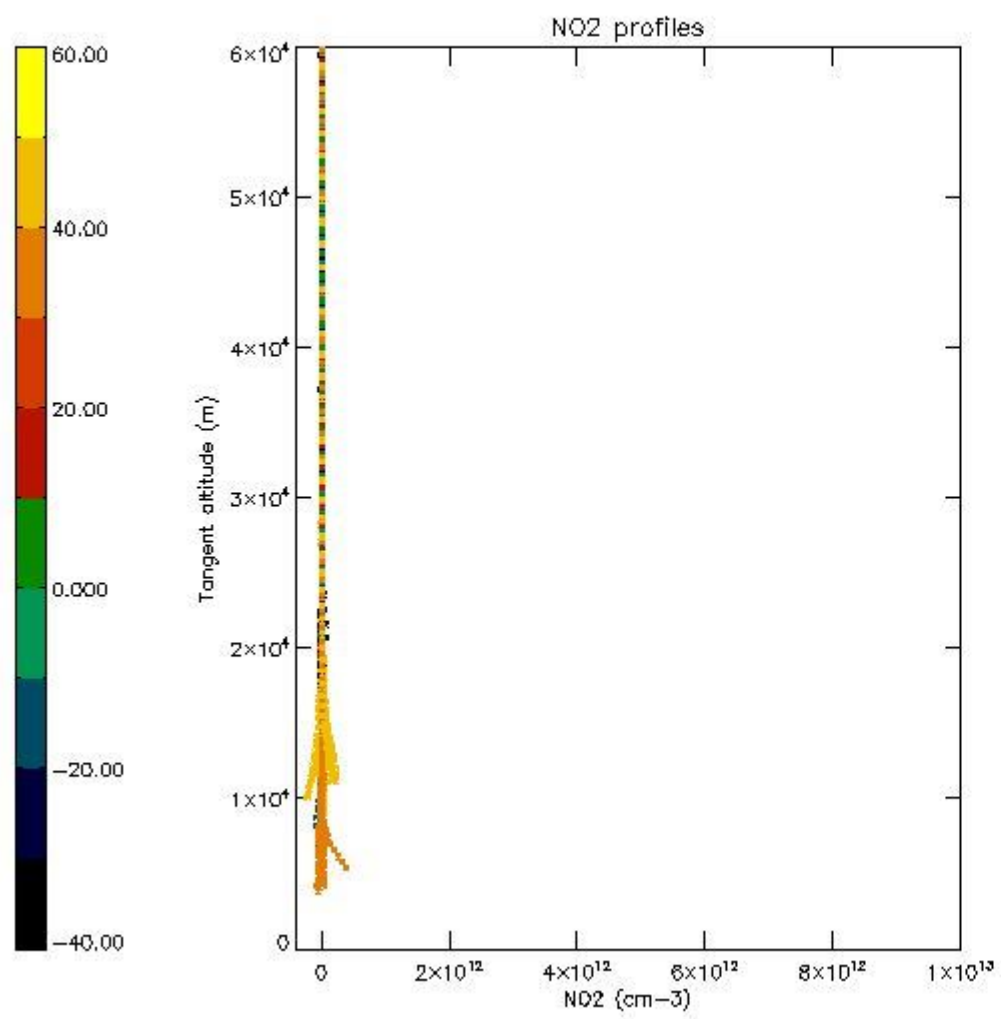
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



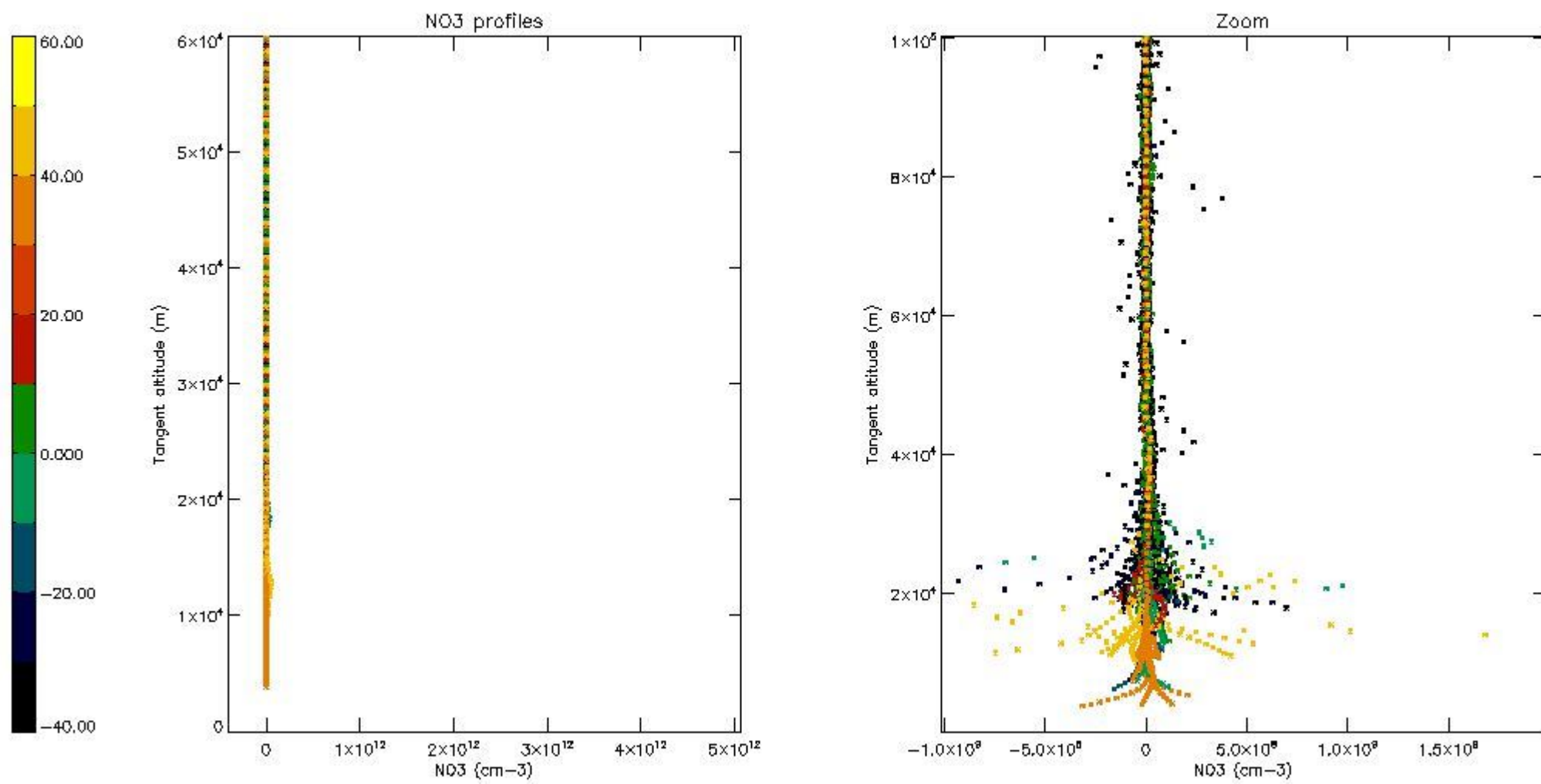
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



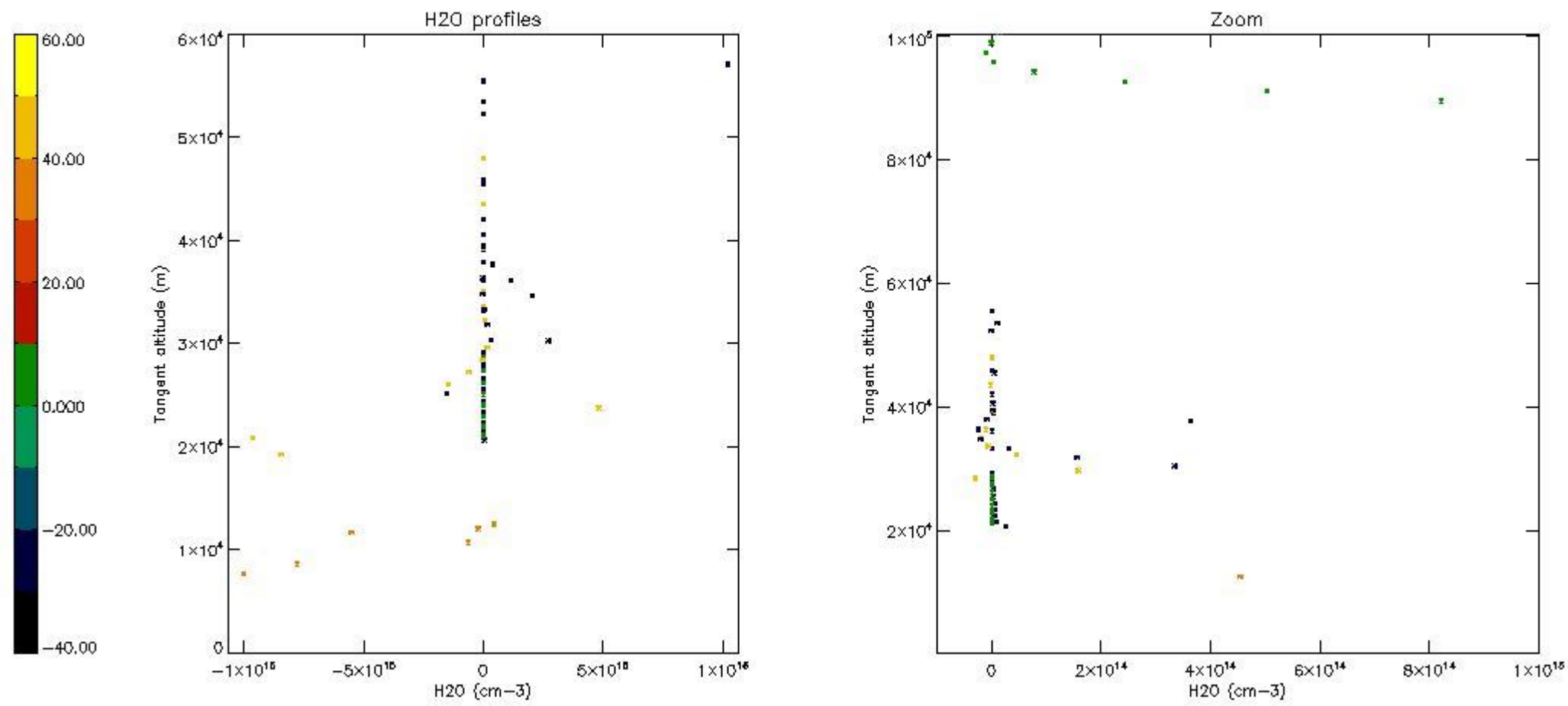
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

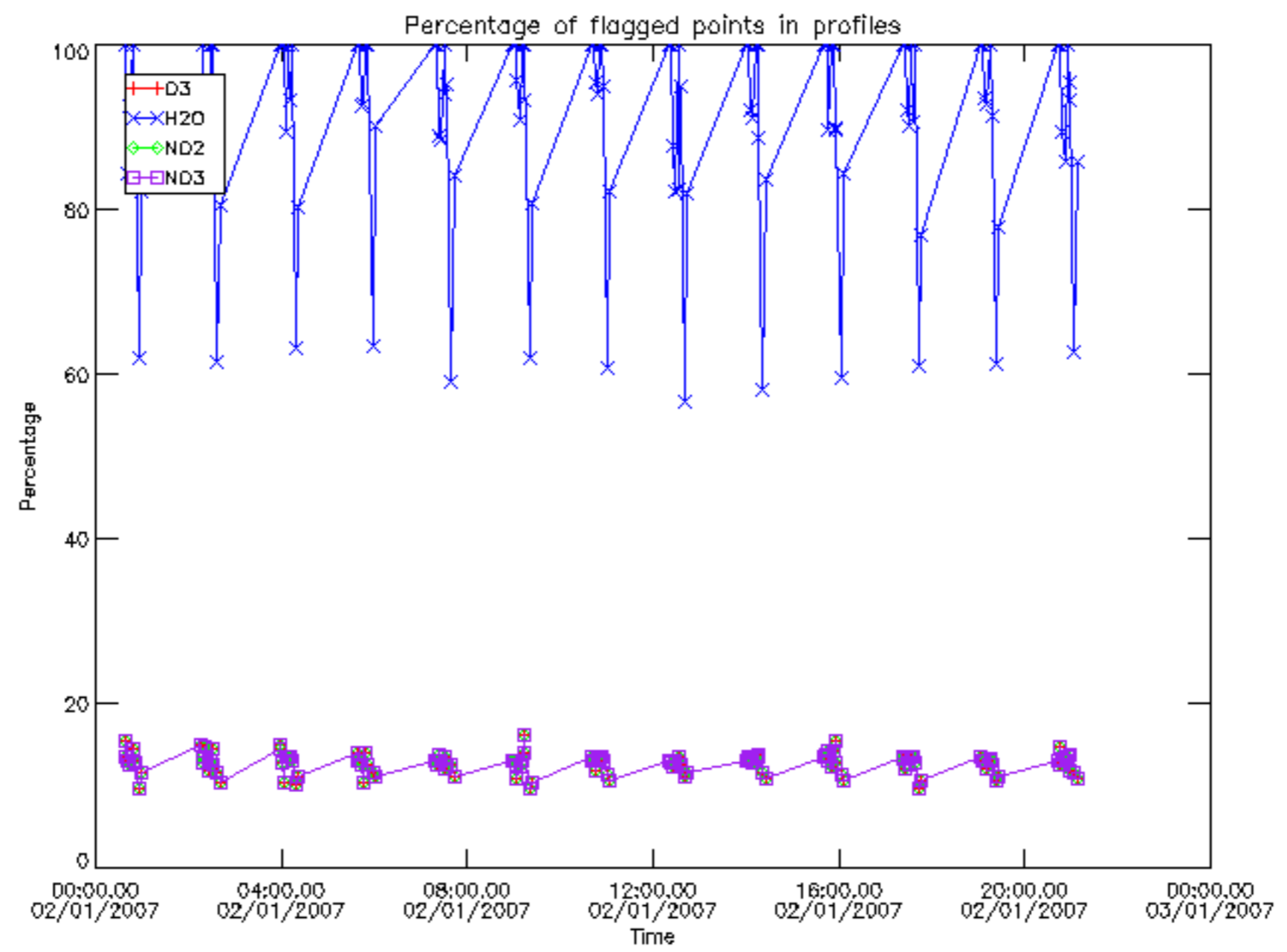
The colorbar represents the latitude.



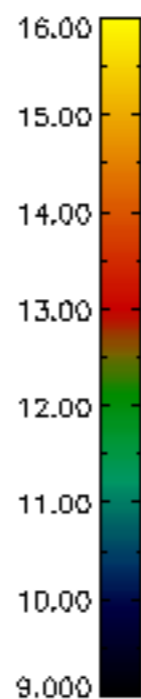
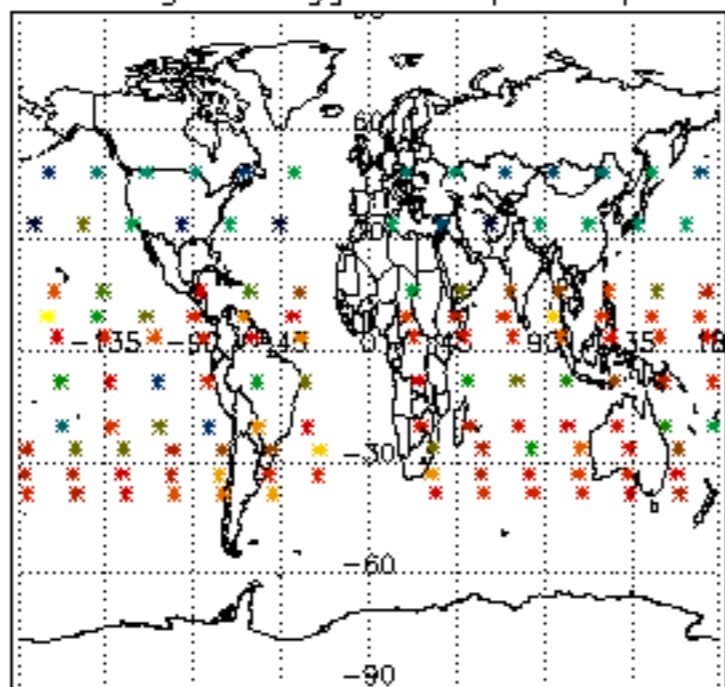
6. Auxiliary Data Files used for the production reported in section 2

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.

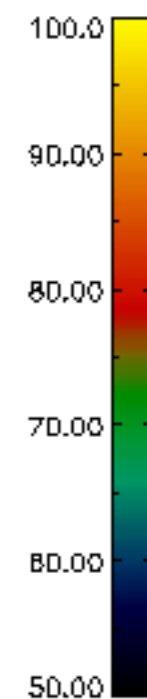
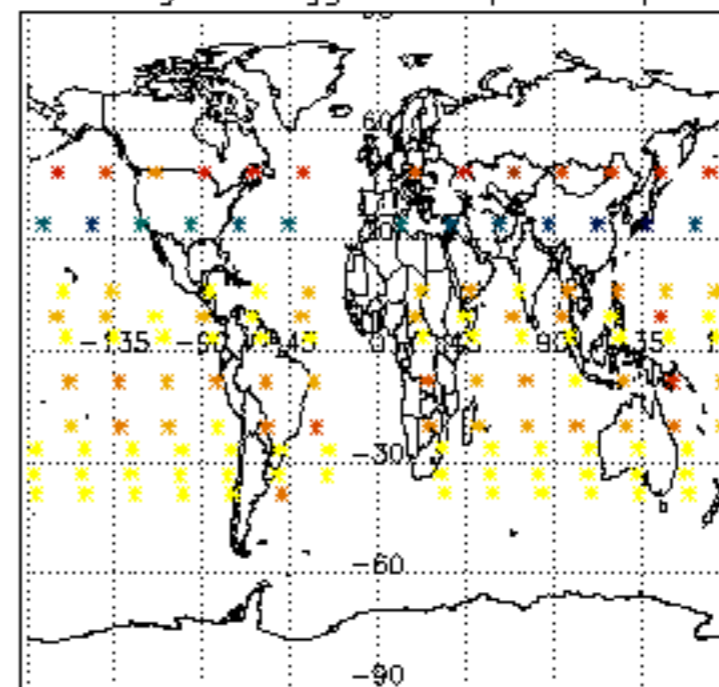
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	02-JAN-2007 00:01:27
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-JAN-2007 00:01:27
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-JAN-2007 00:01:27



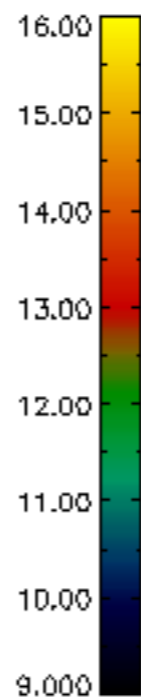
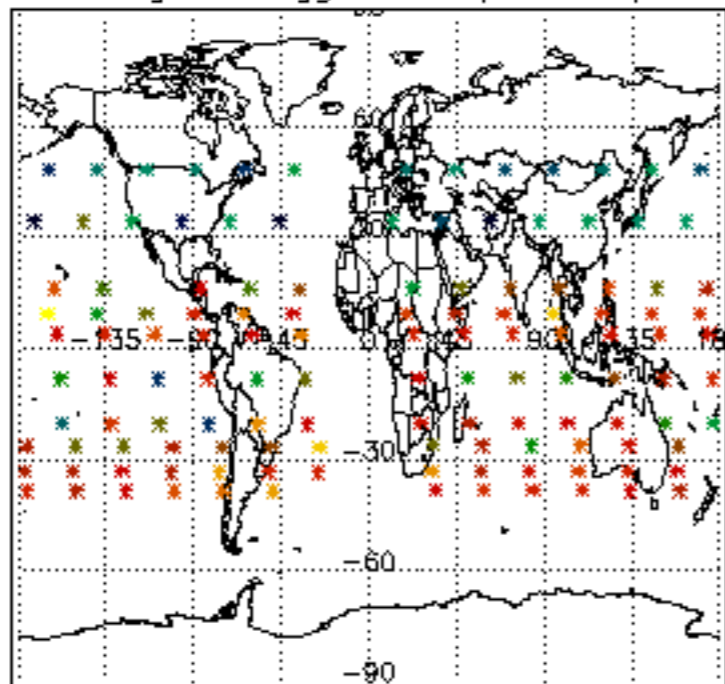
Percentage of flagged data per D3 profile



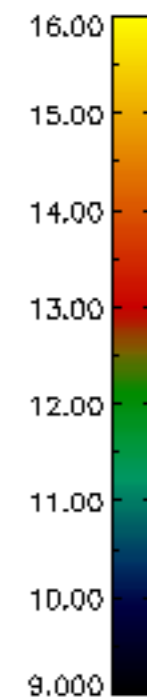
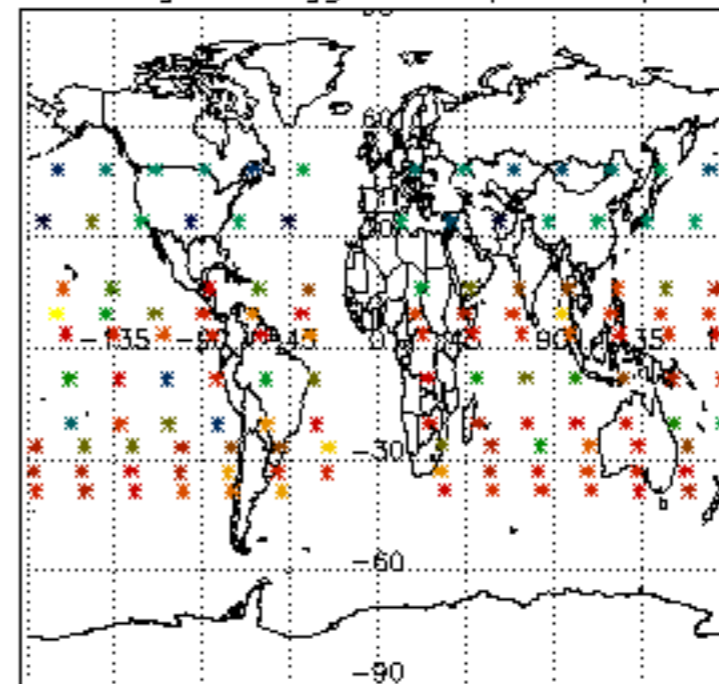
Percentage of flagged data per H2O profile

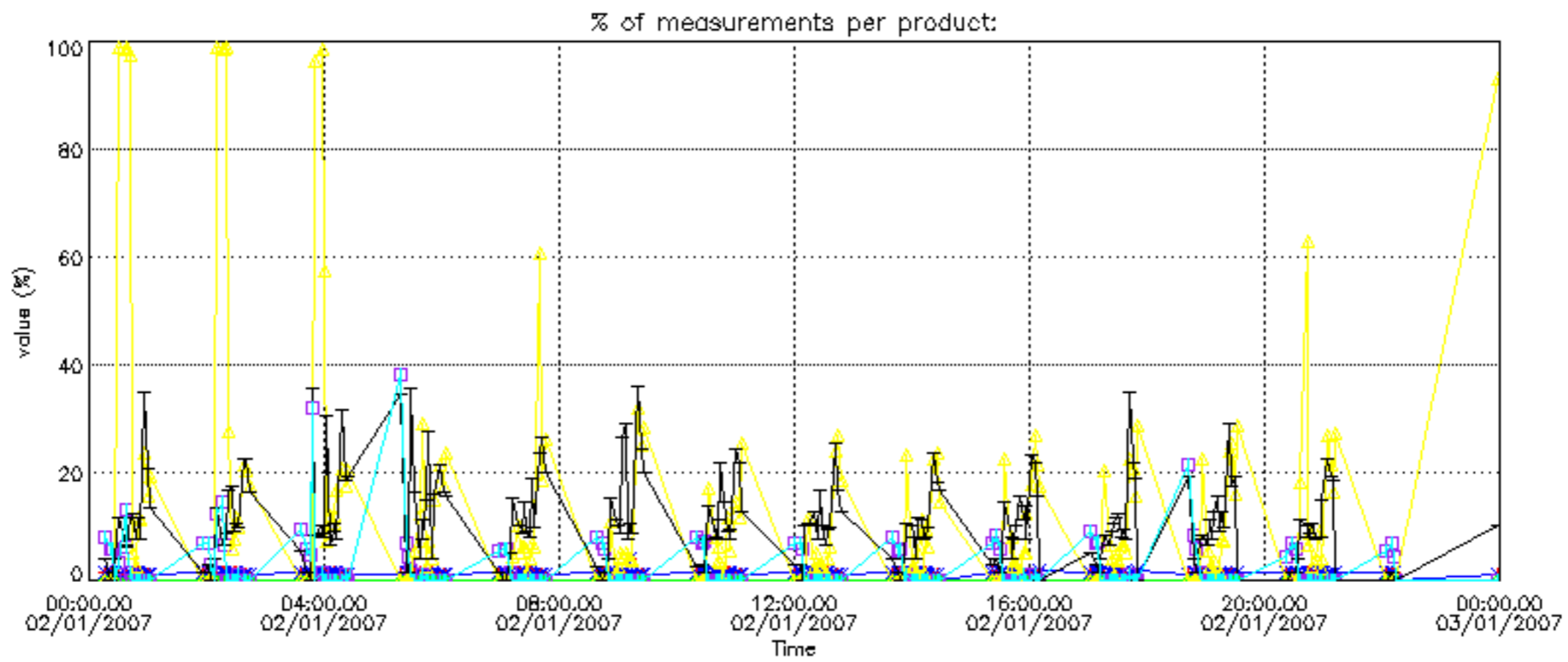


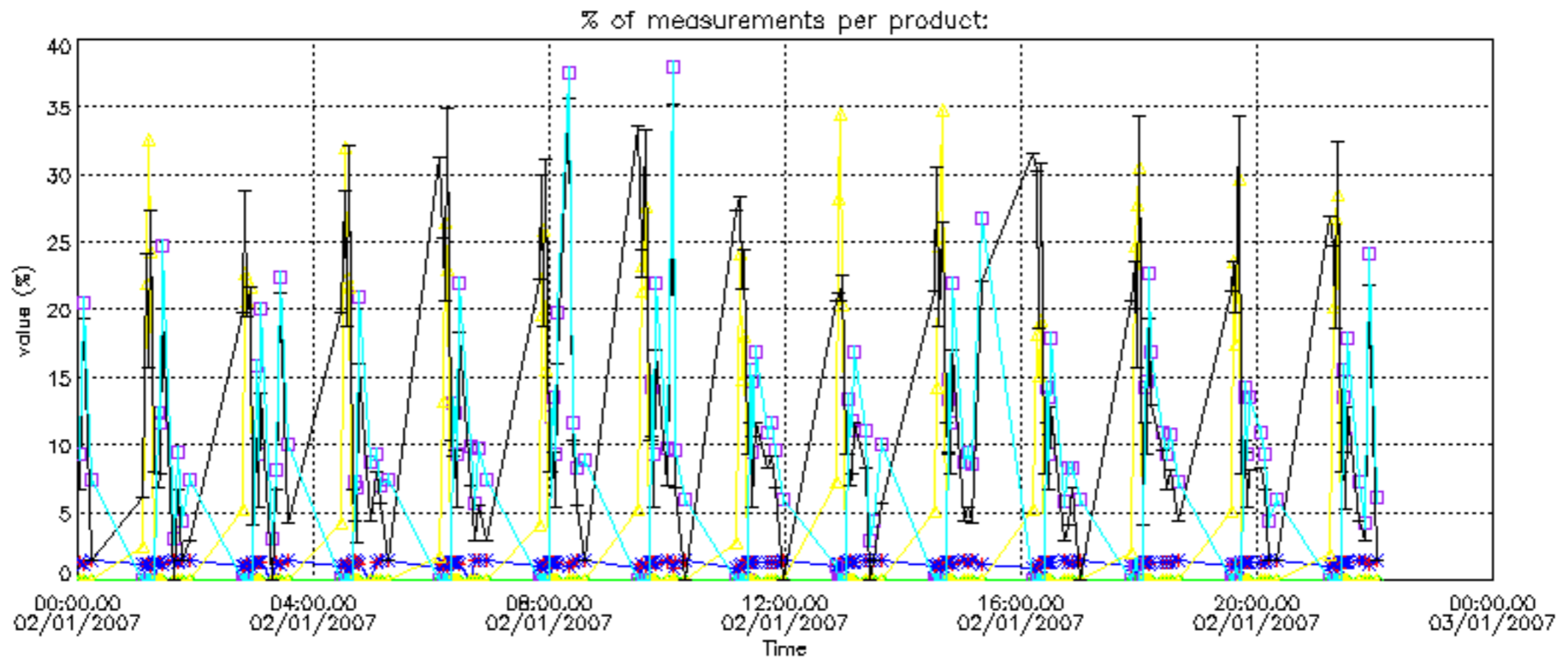
Percentage of flagged data per NO2 profile



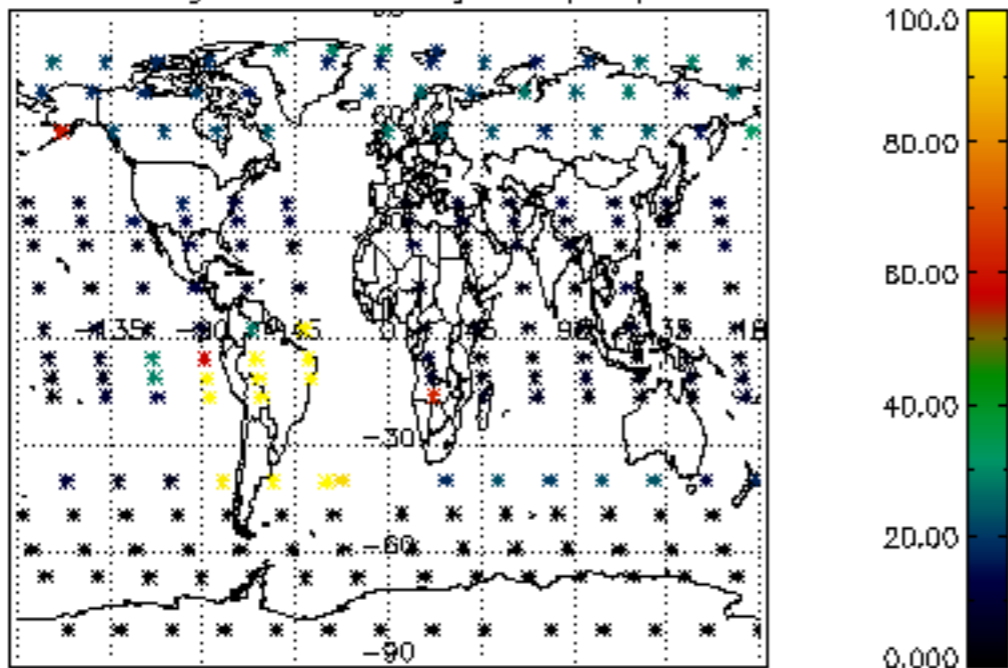
Percentage of flagged data per NO3 profile



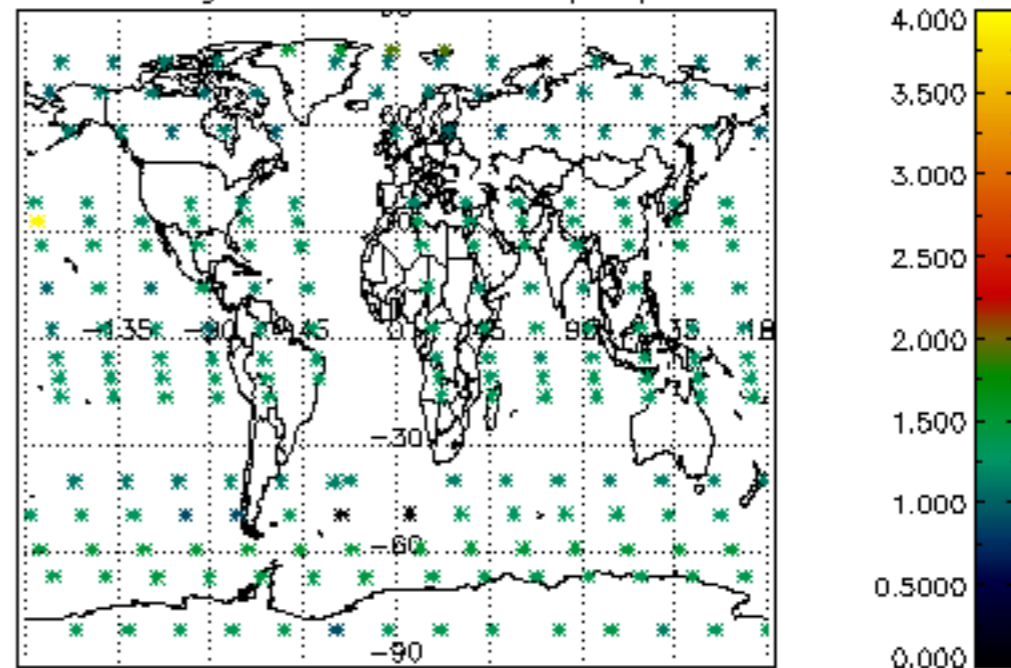




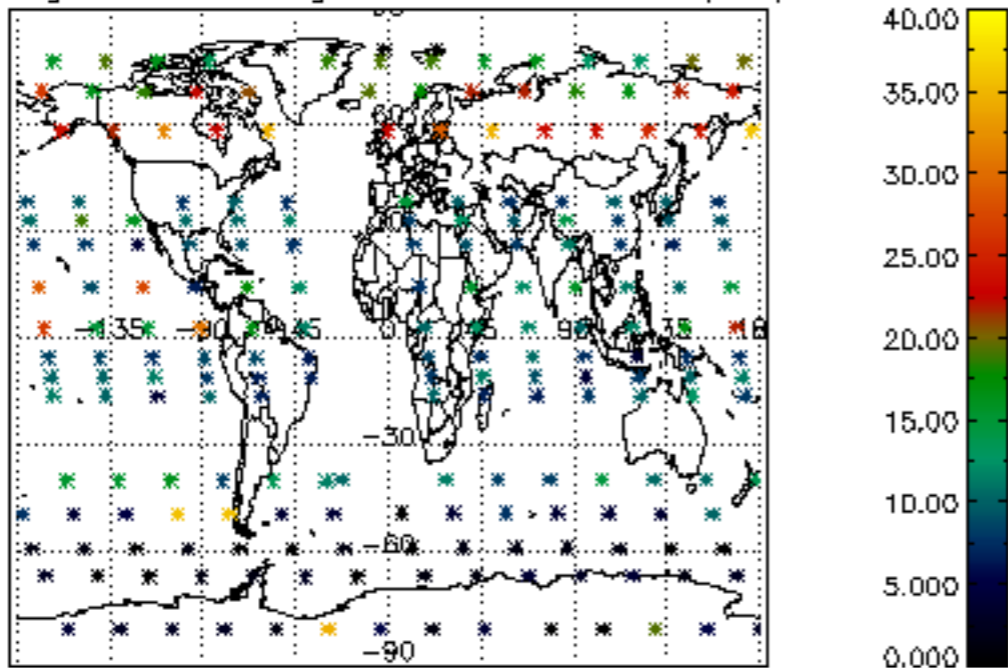
Percentage of cosmic ray hits per profile



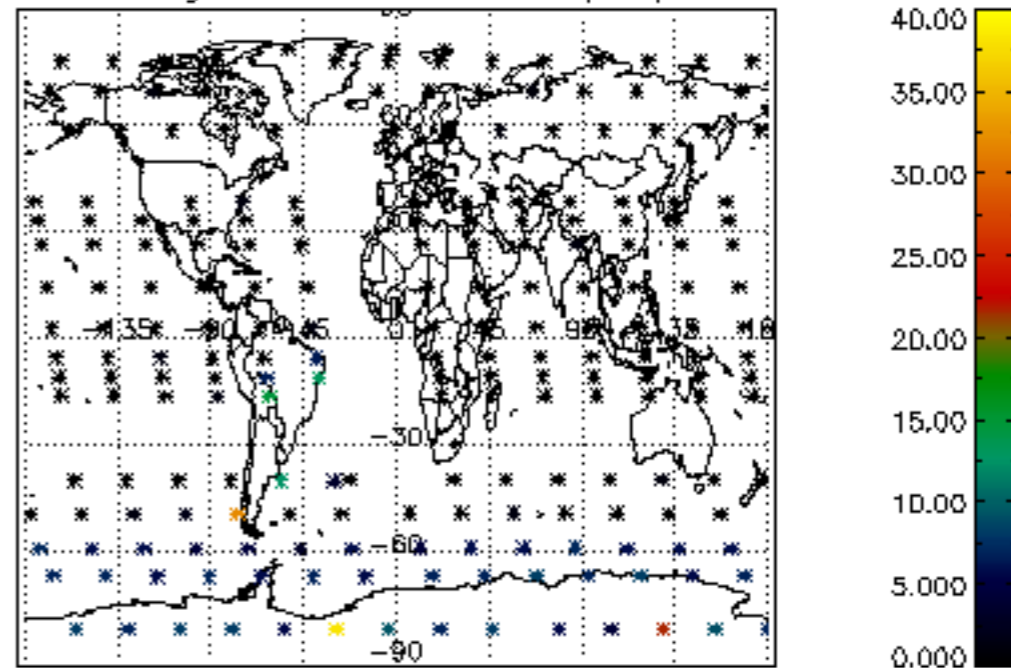
Percentage of datation errors per profile



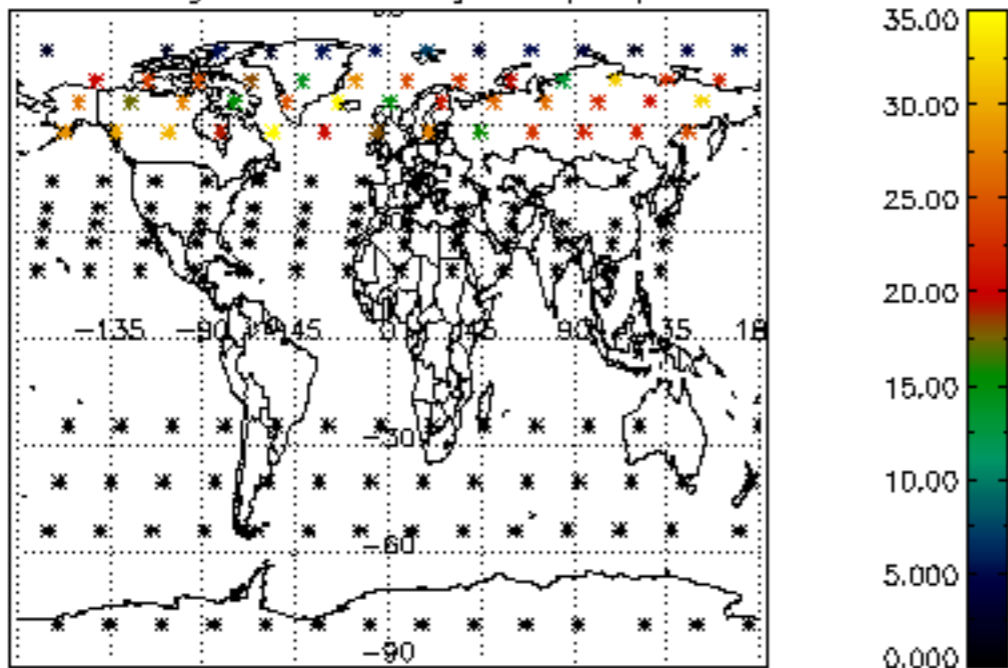
Percentage of star falling outside central band per profile



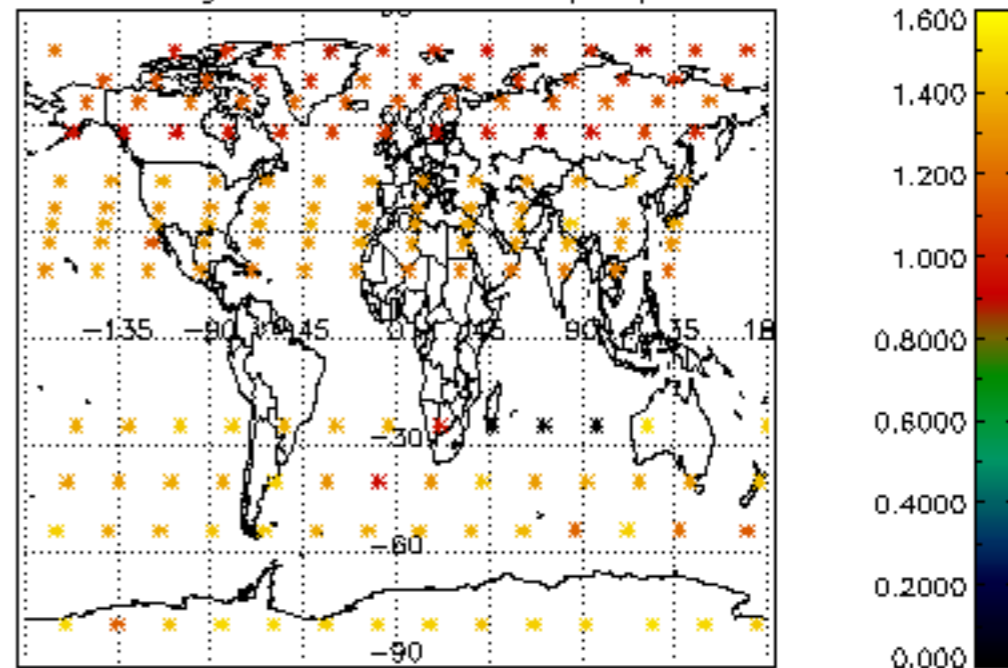
Percentage of saturation errors per profile



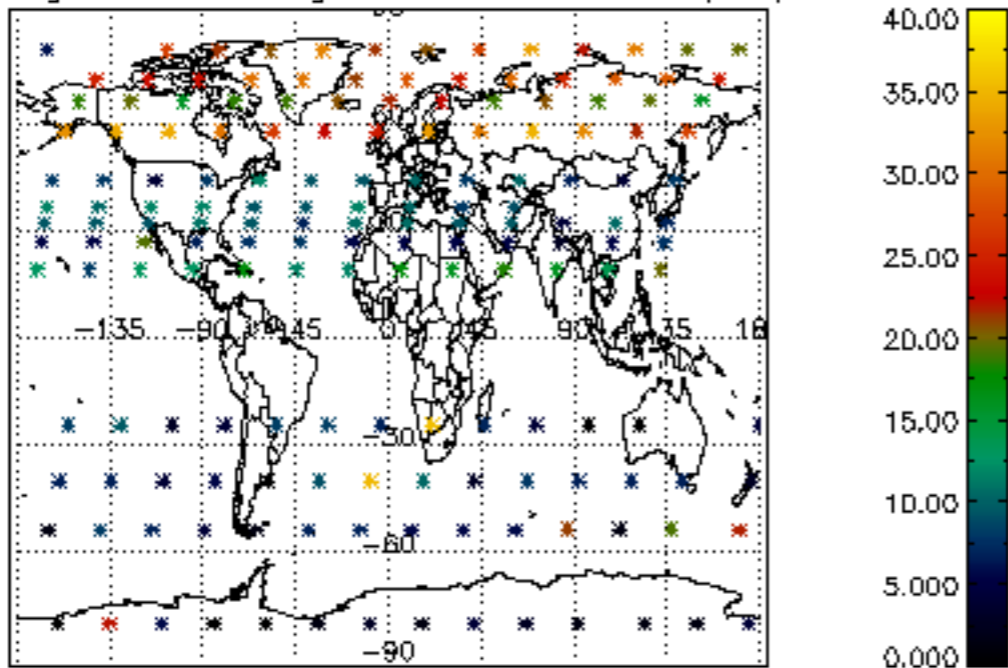
Percentage of cosmic ray hits per profile



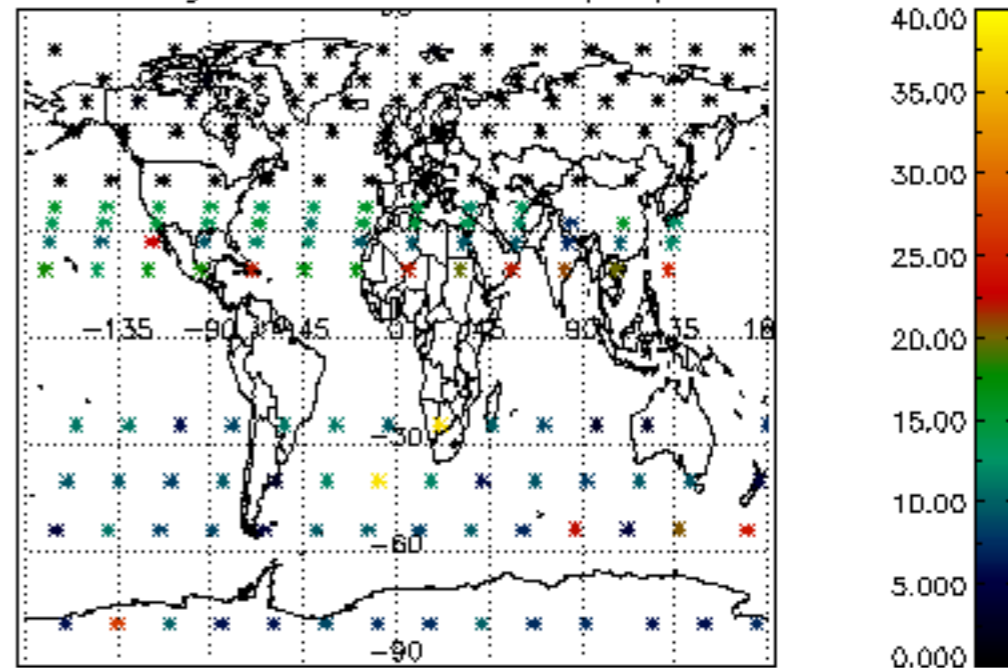
Percentage of datation errors per profile

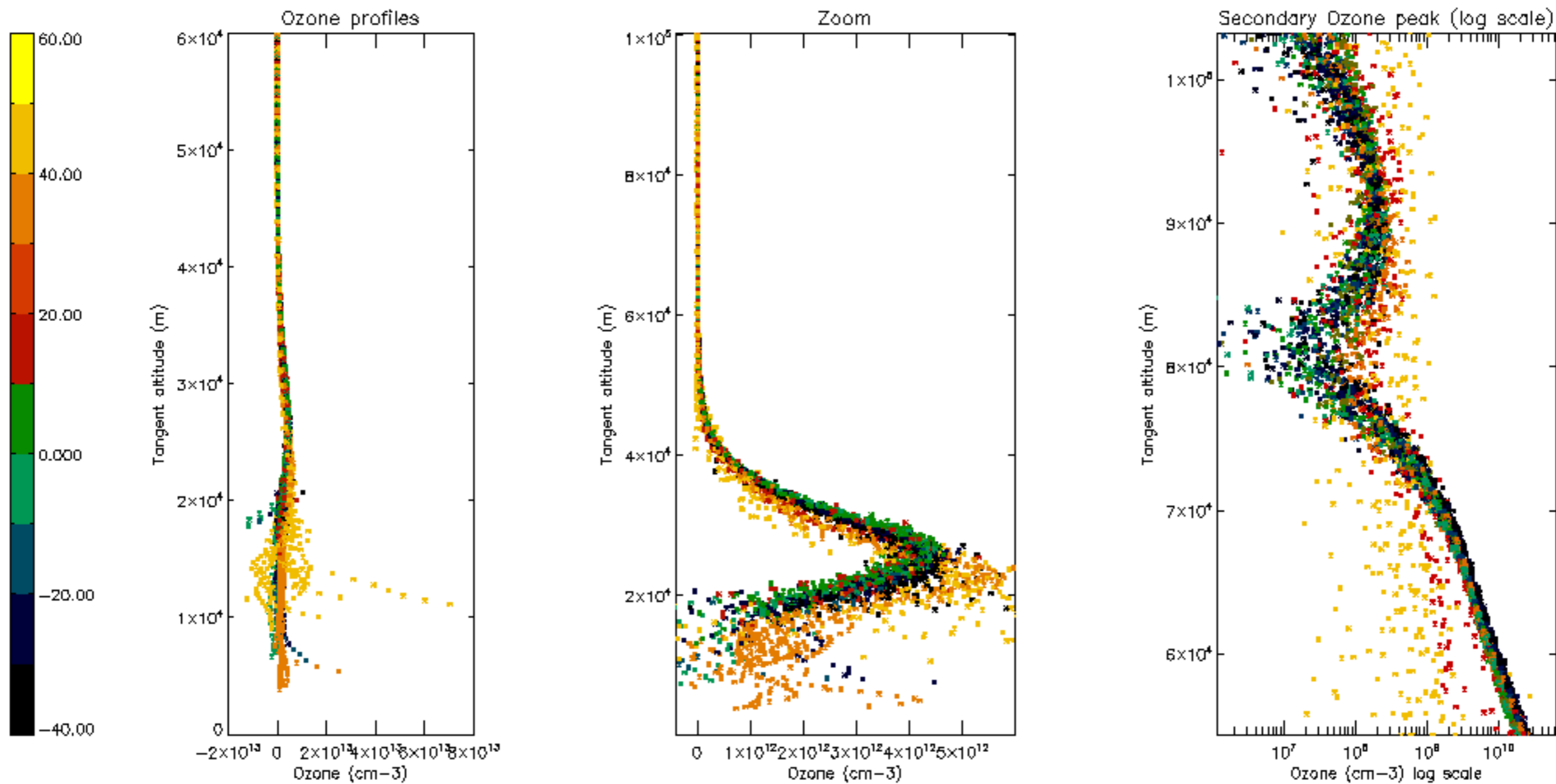


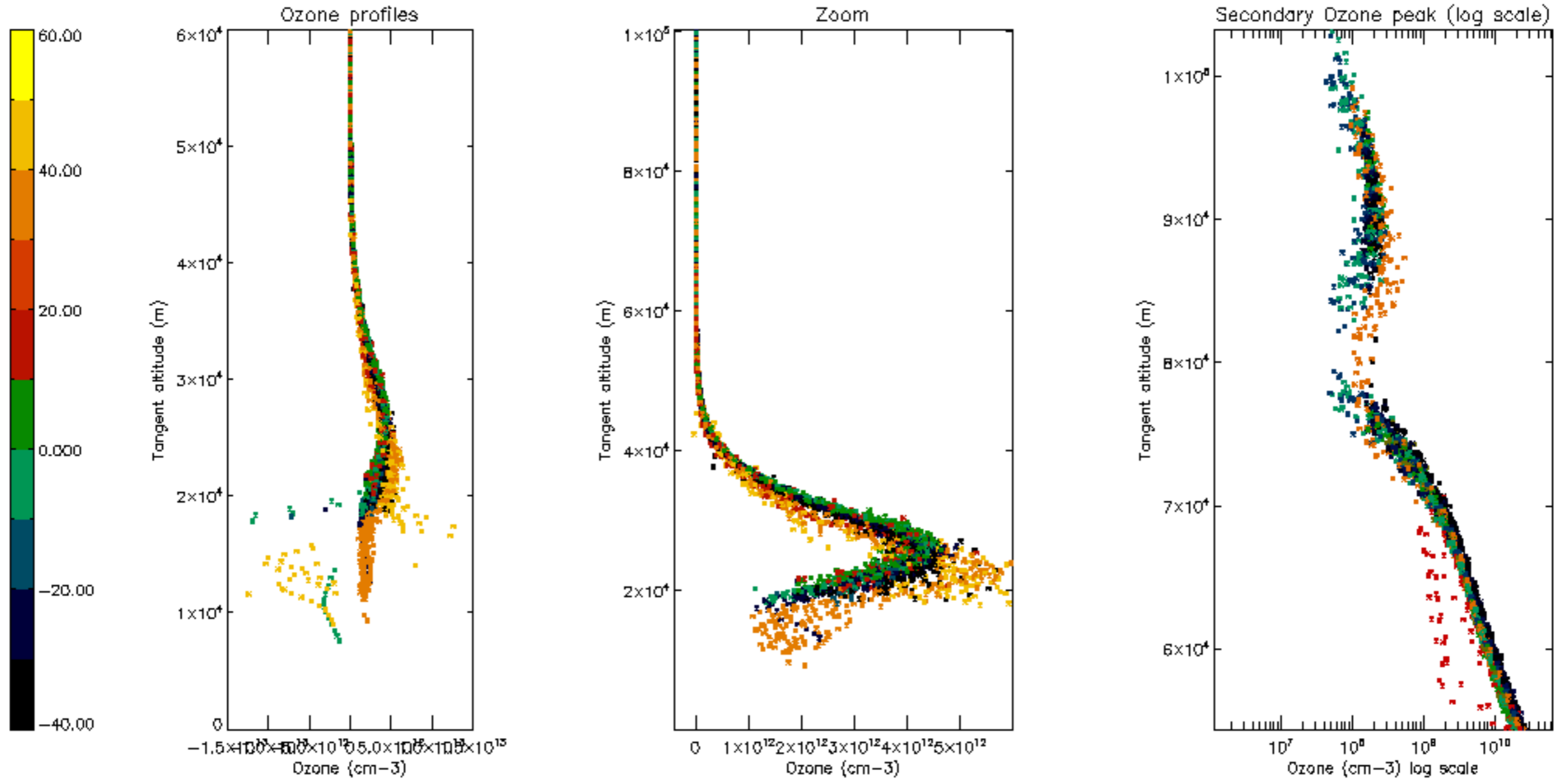
Percentage of star falling outside central band per profile

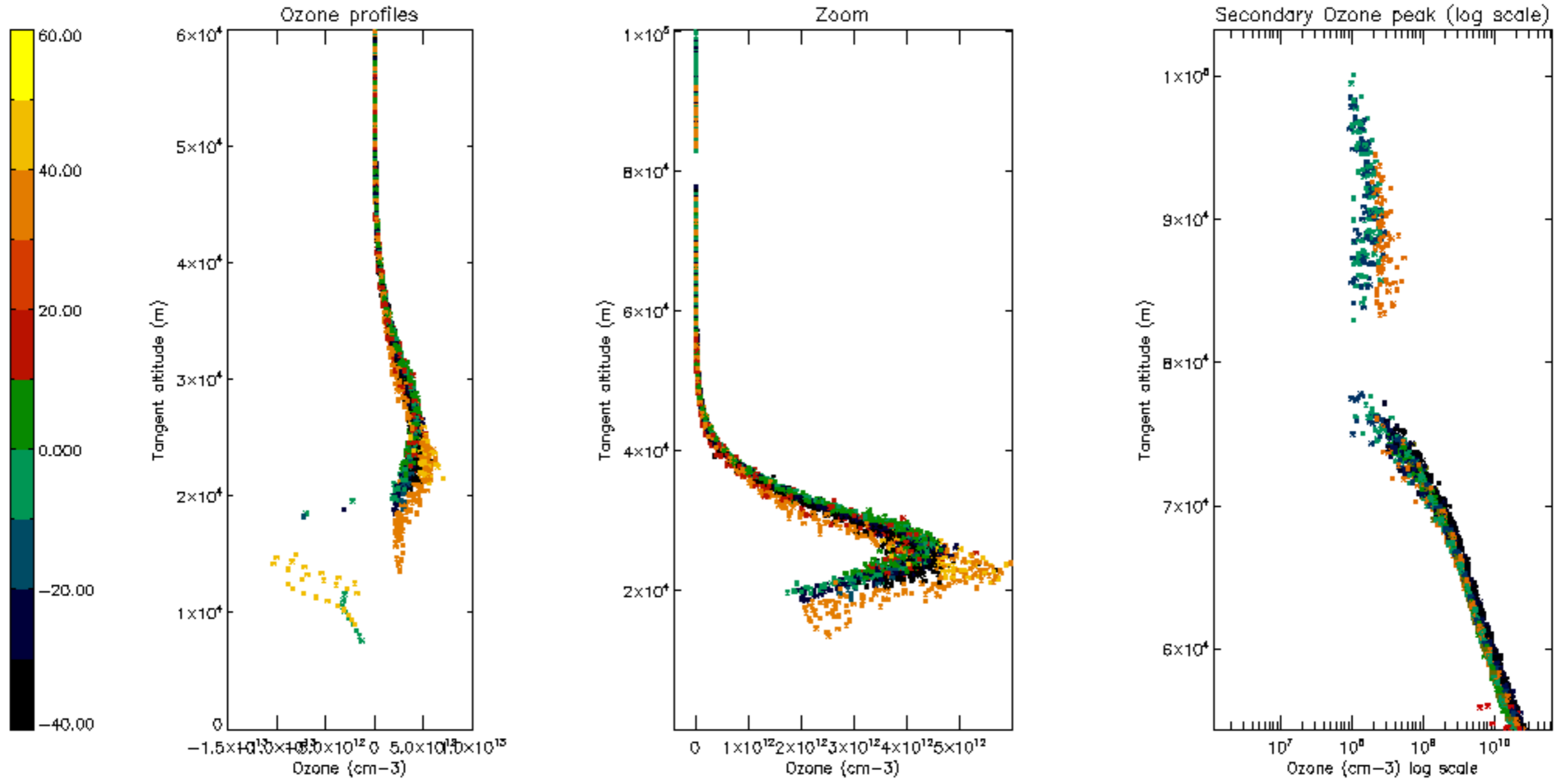


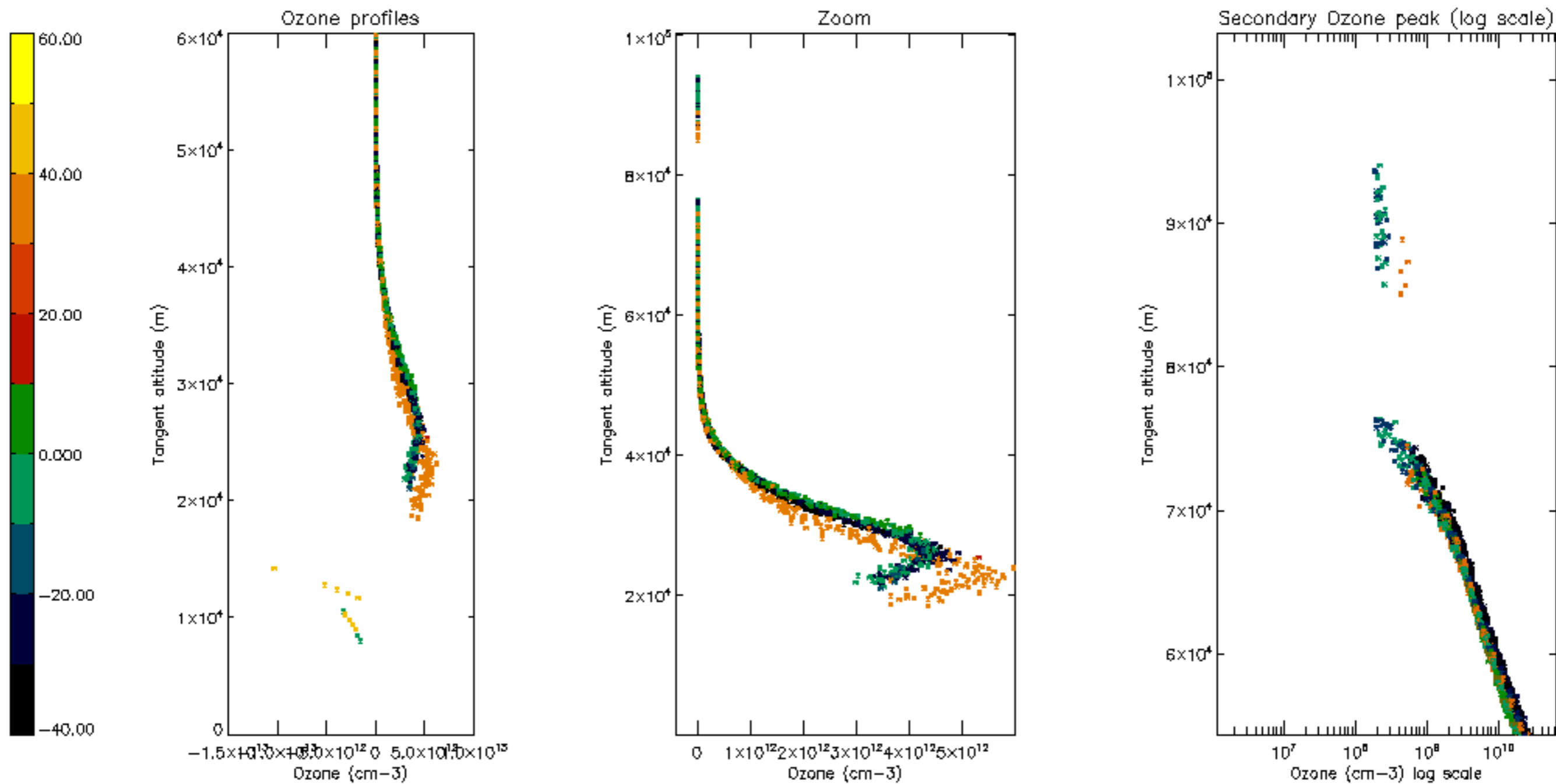
Percentage of saturation errors per profile

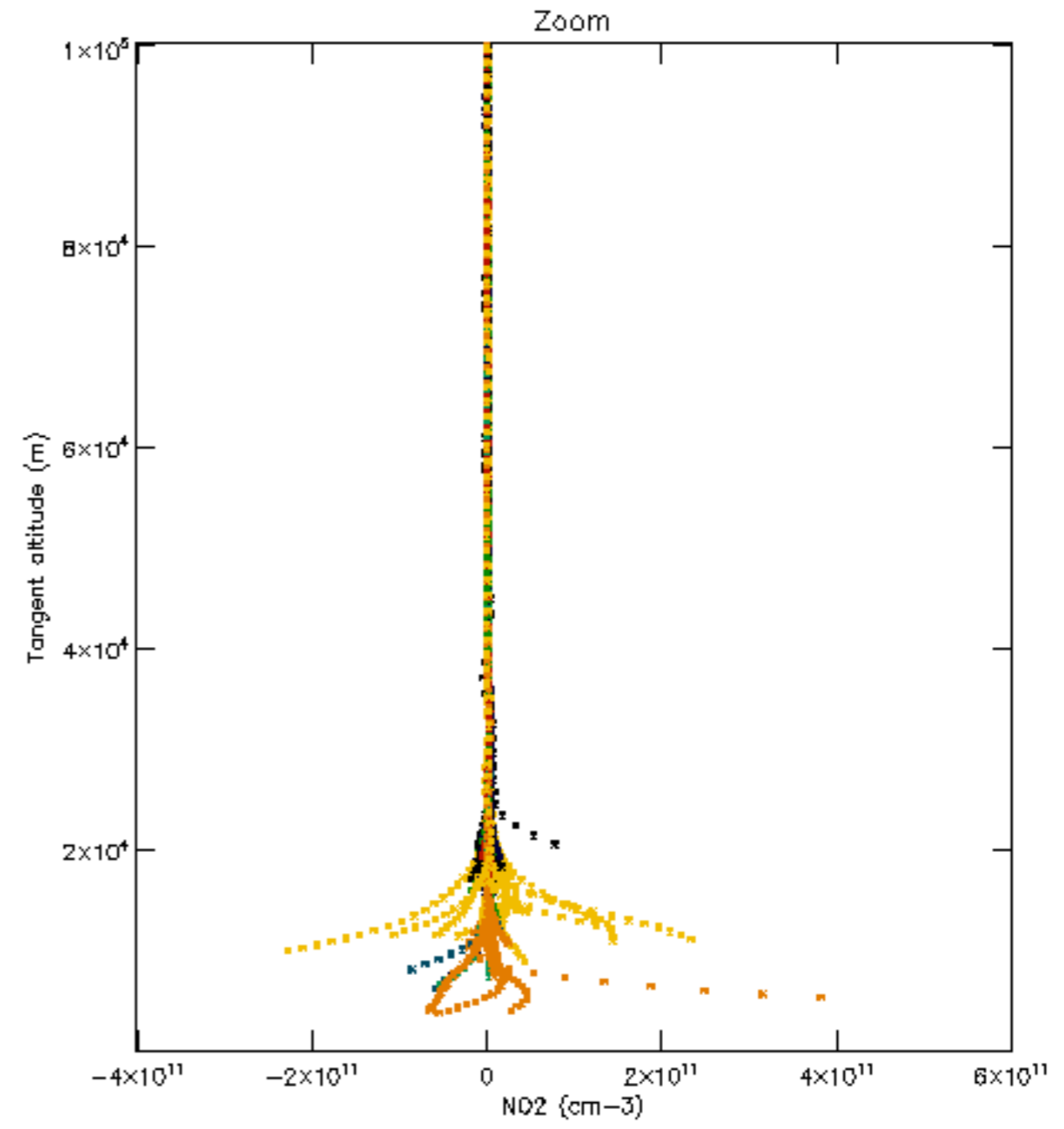
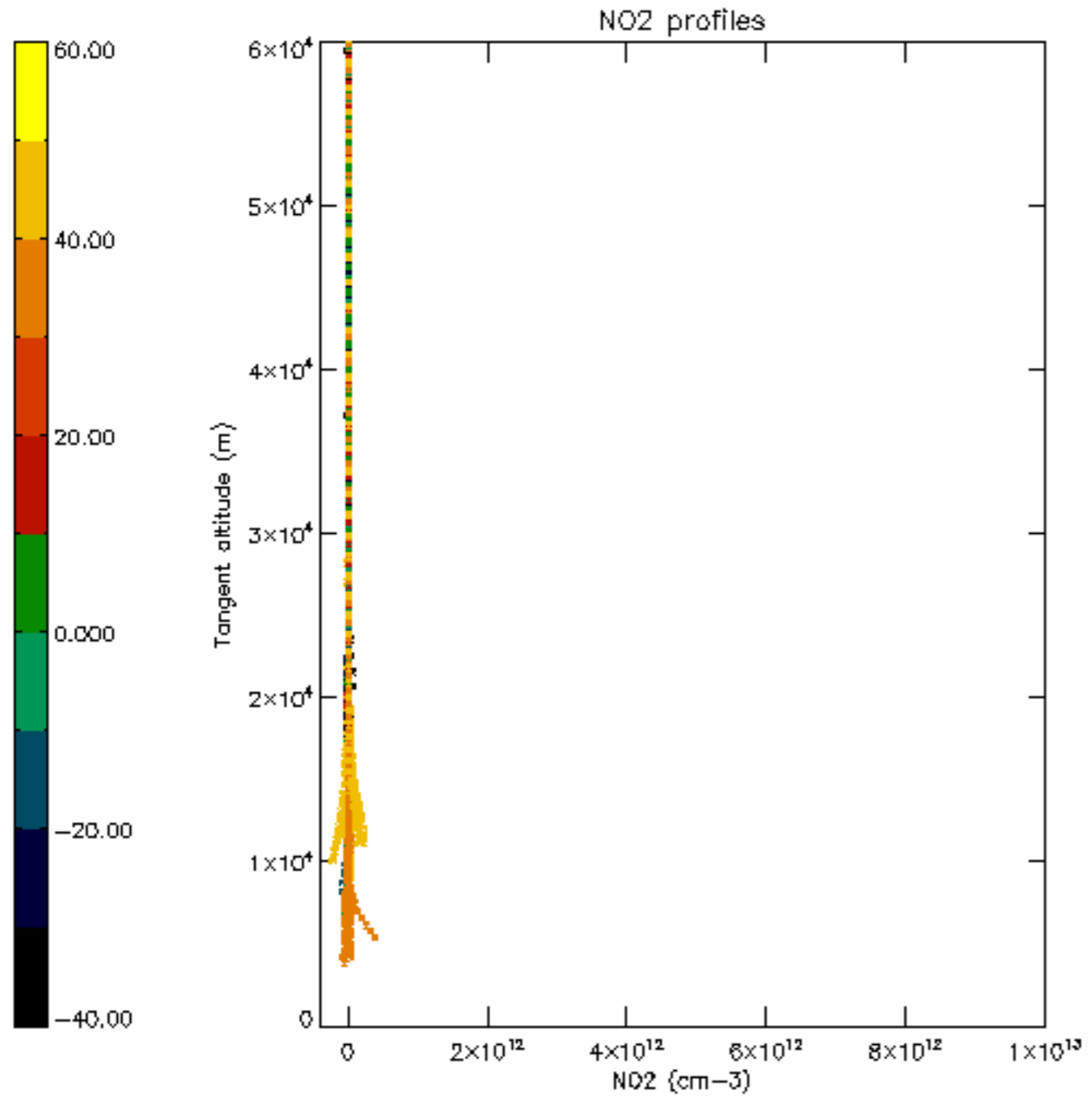


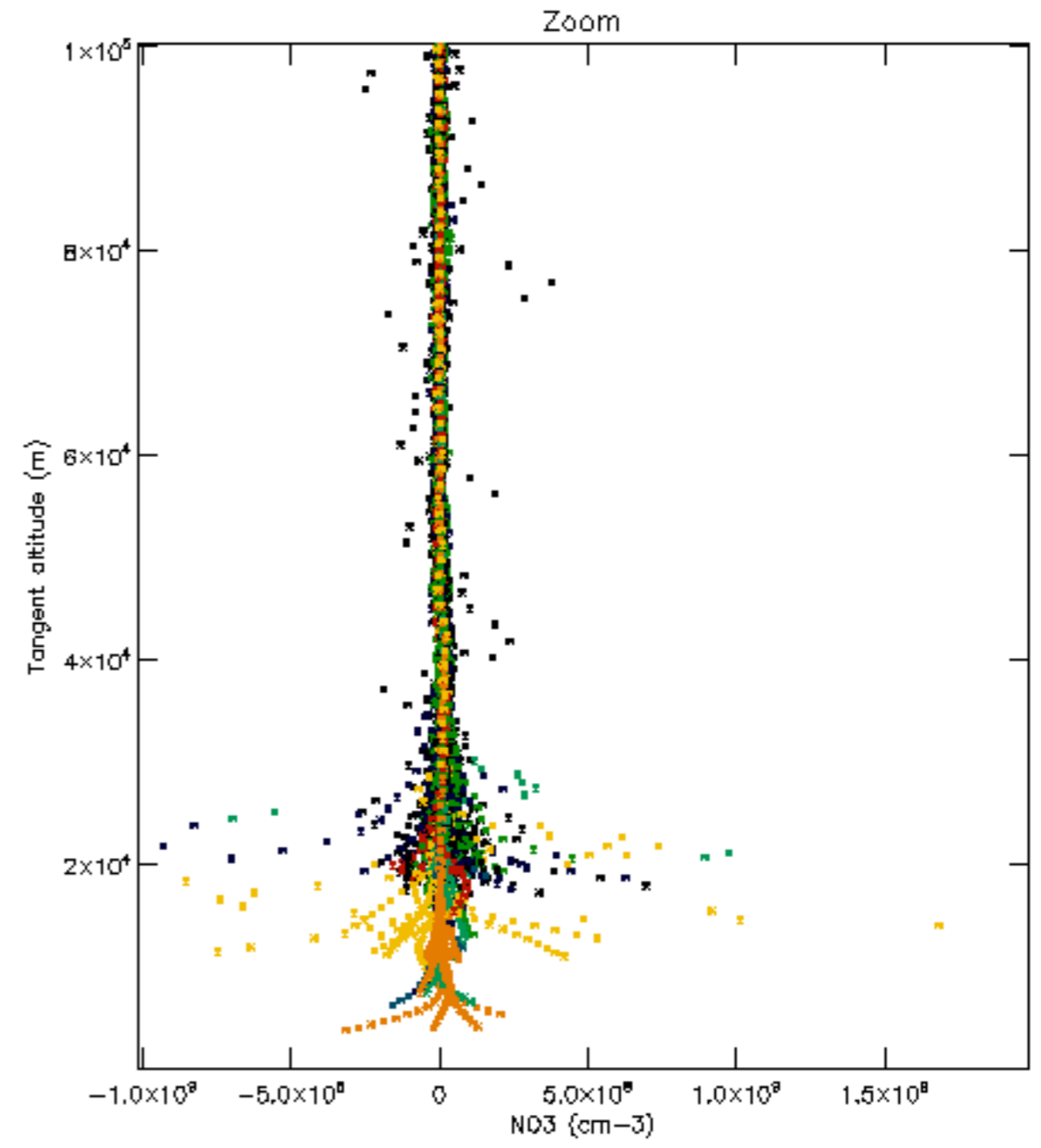
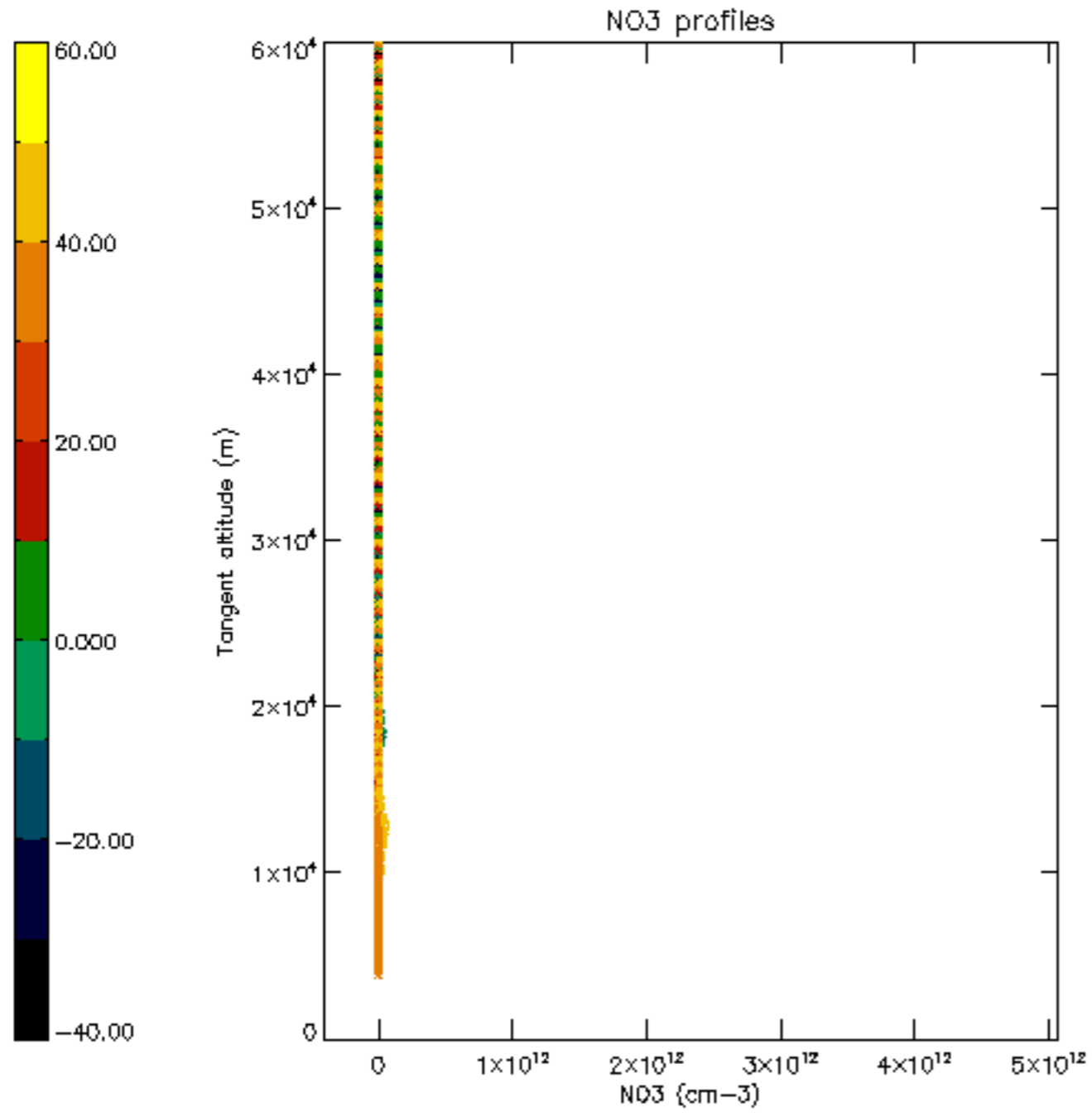


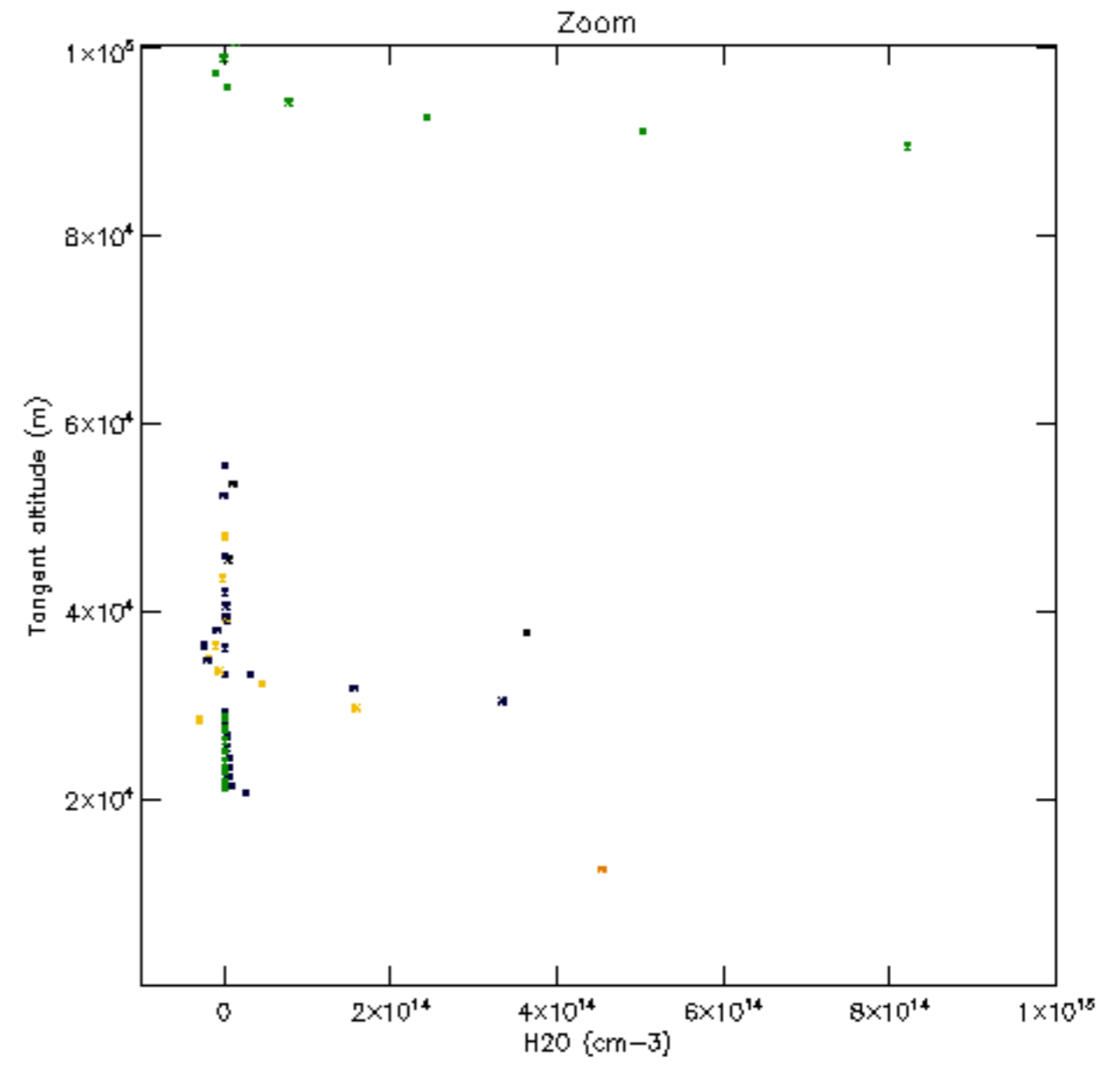
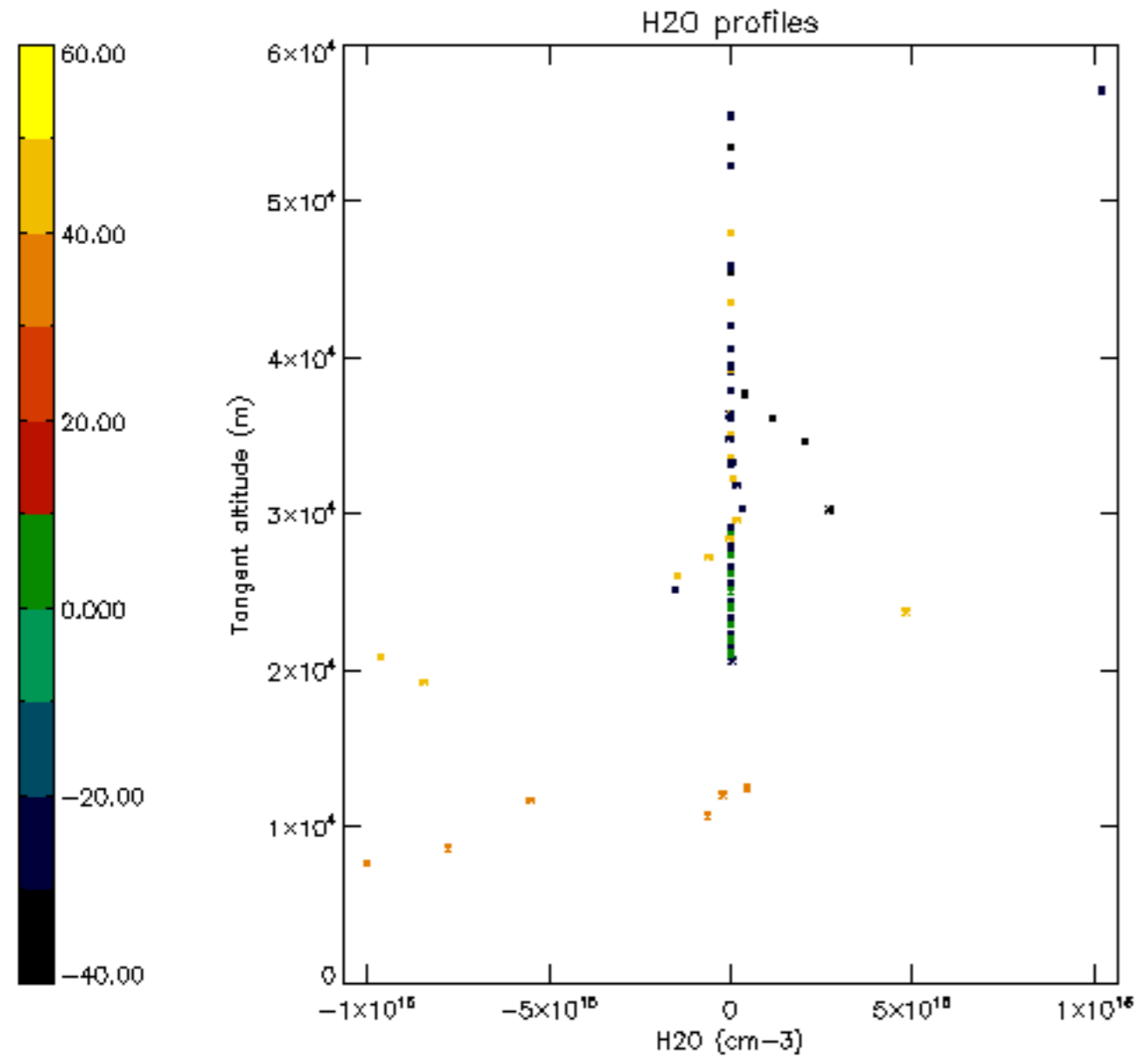


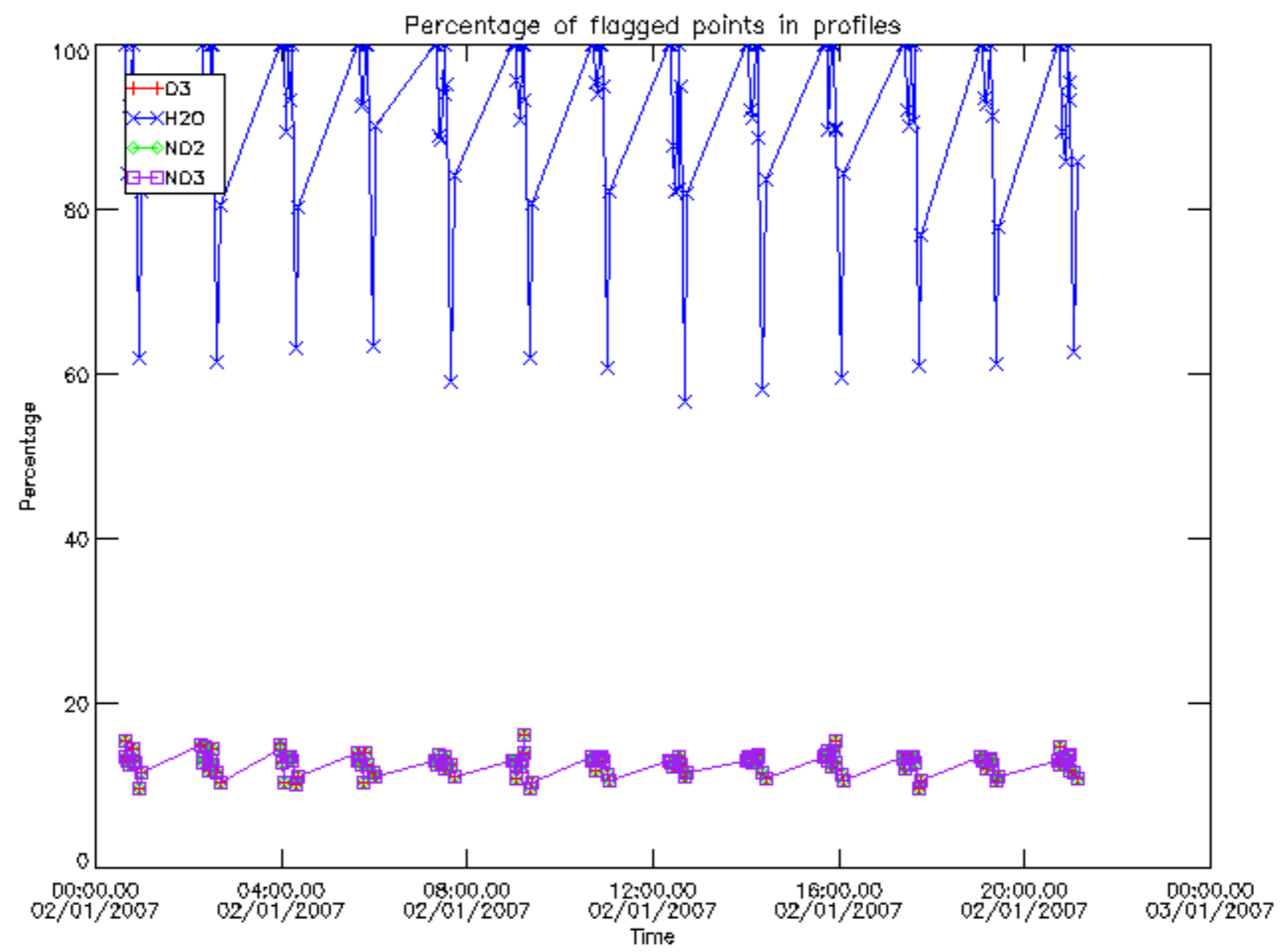




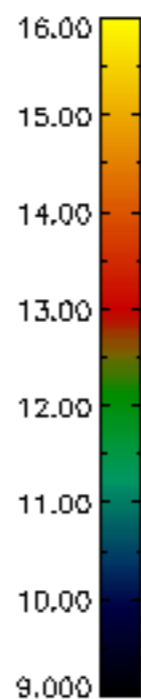
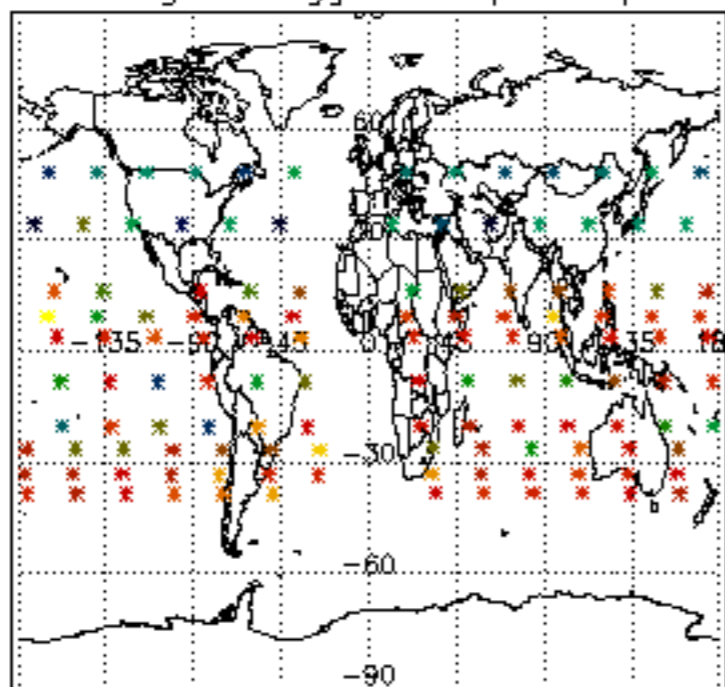




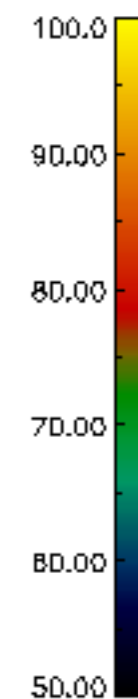
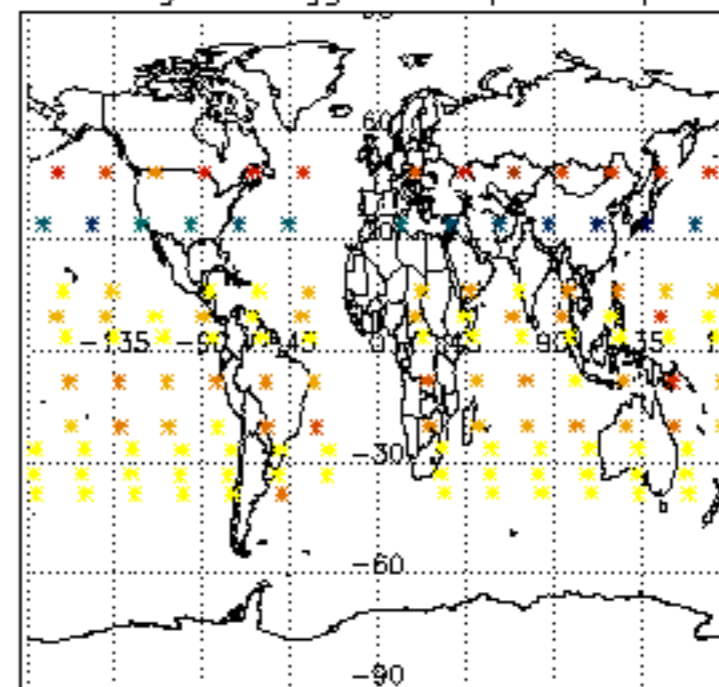




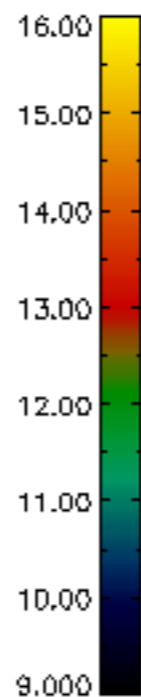
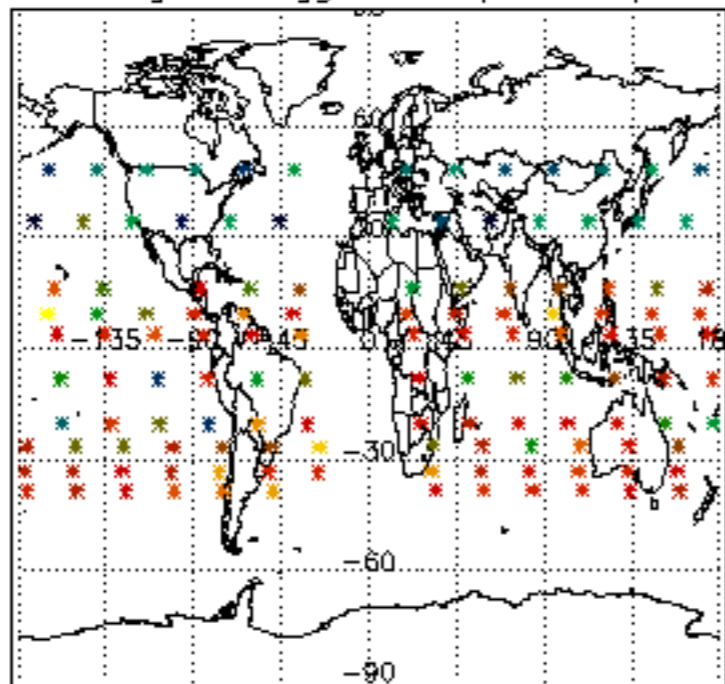
Percentage of flagged data per D3 profile



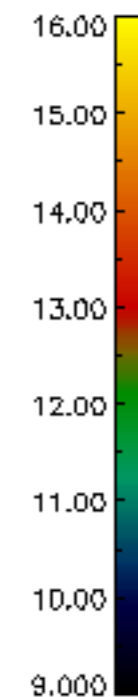
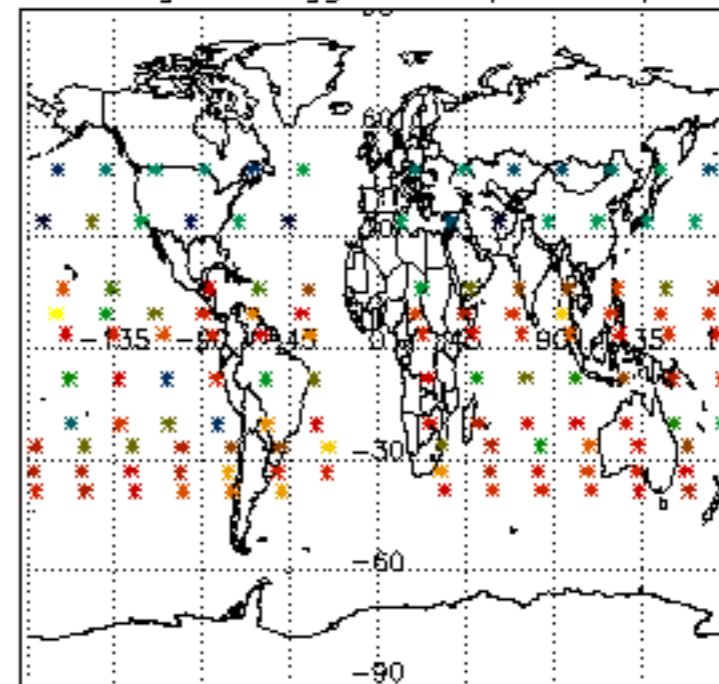
Percentage of flagged data per H2O profile

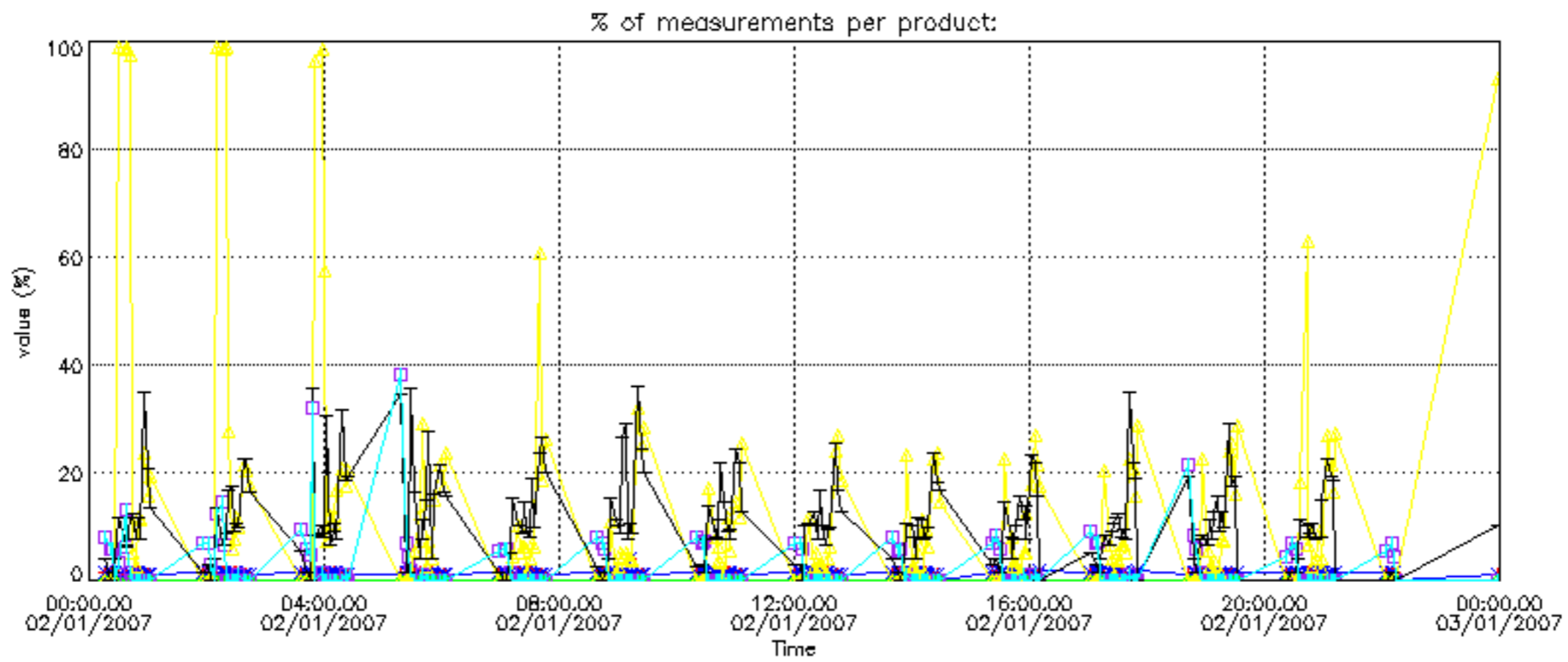


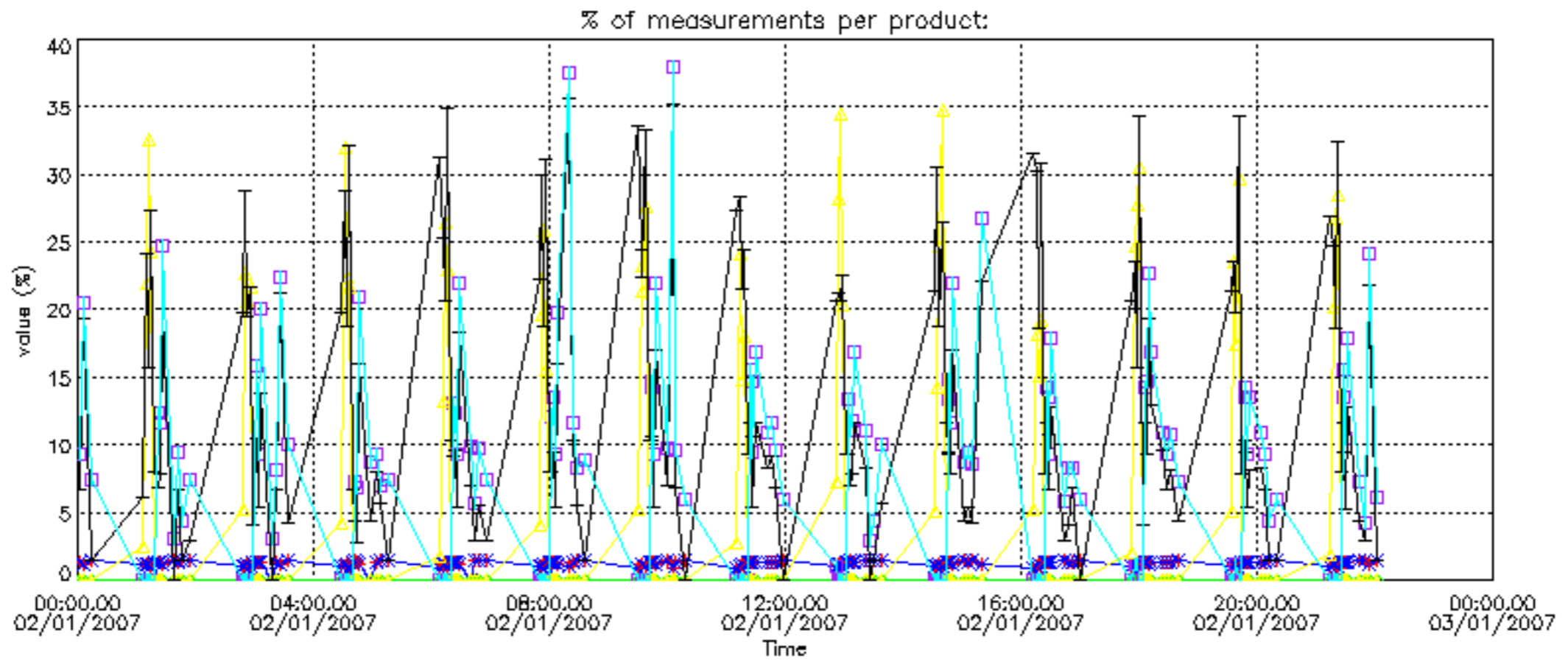
Percentage of flagged data per NO2 profile



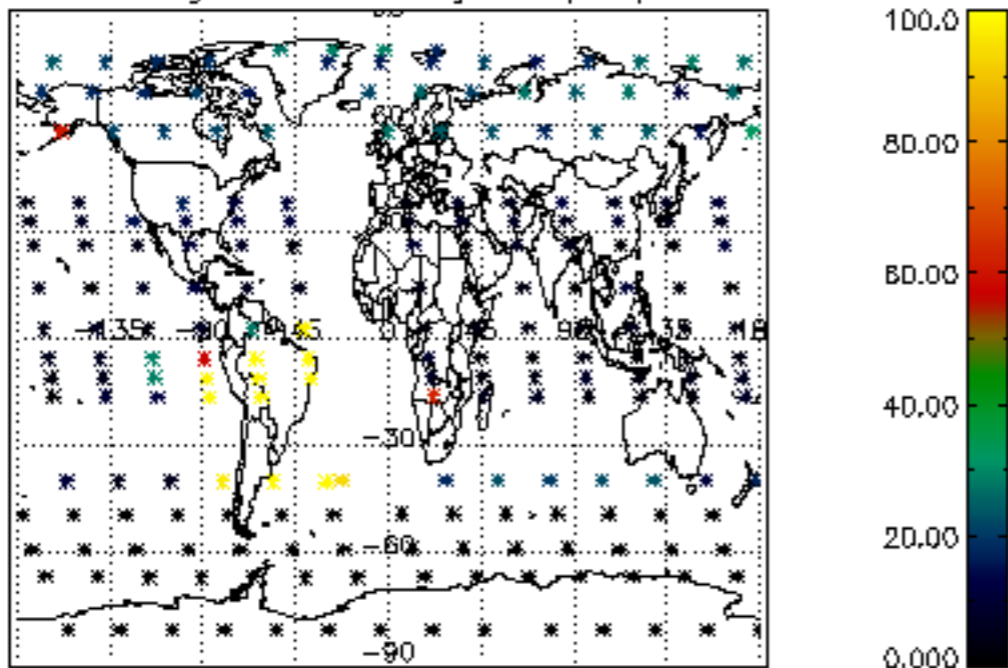
Percentage of flagged data per NO3 profile



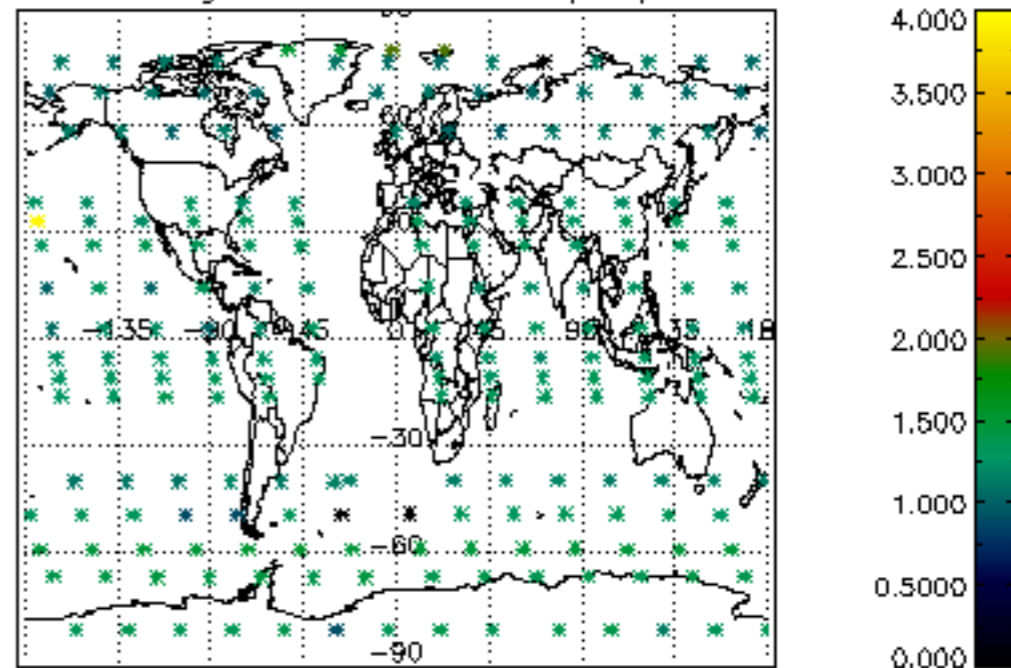




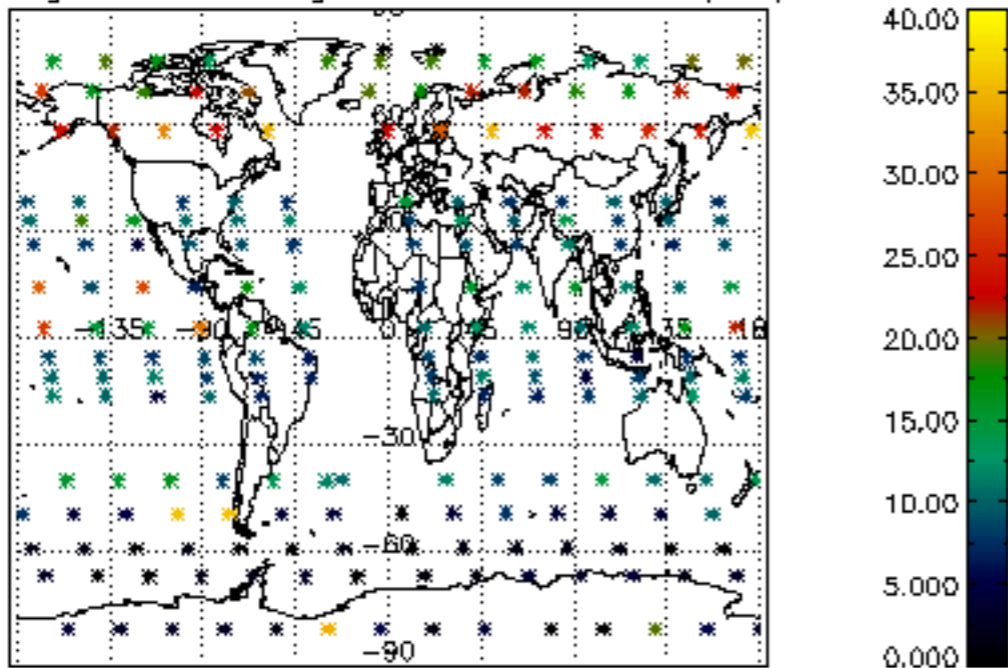
Percentage of cosmic ray hits per profile



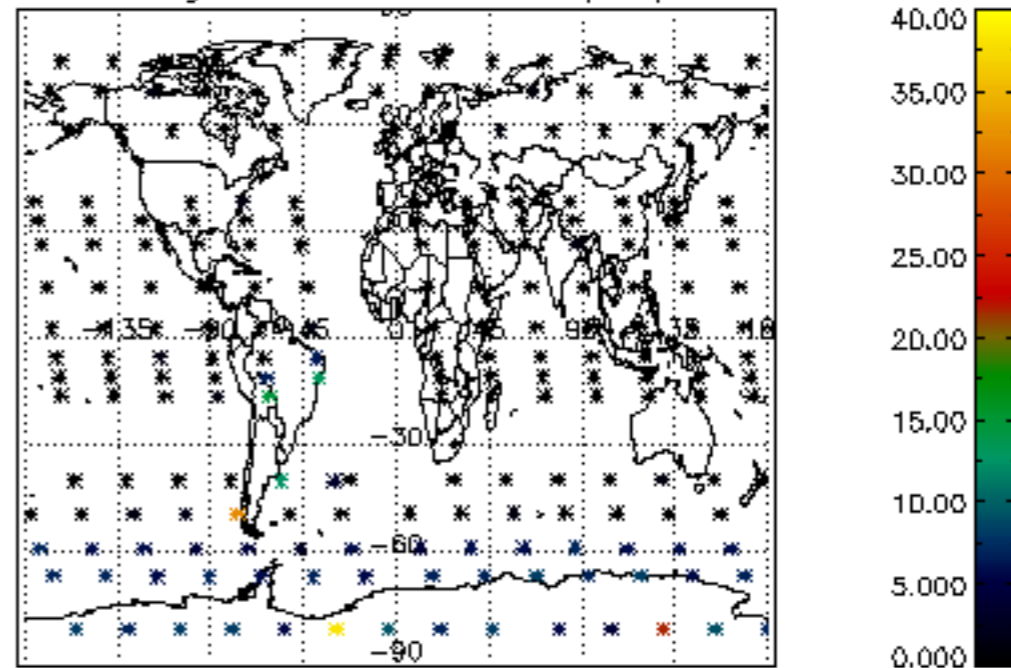
Percentage of datation errors per profile



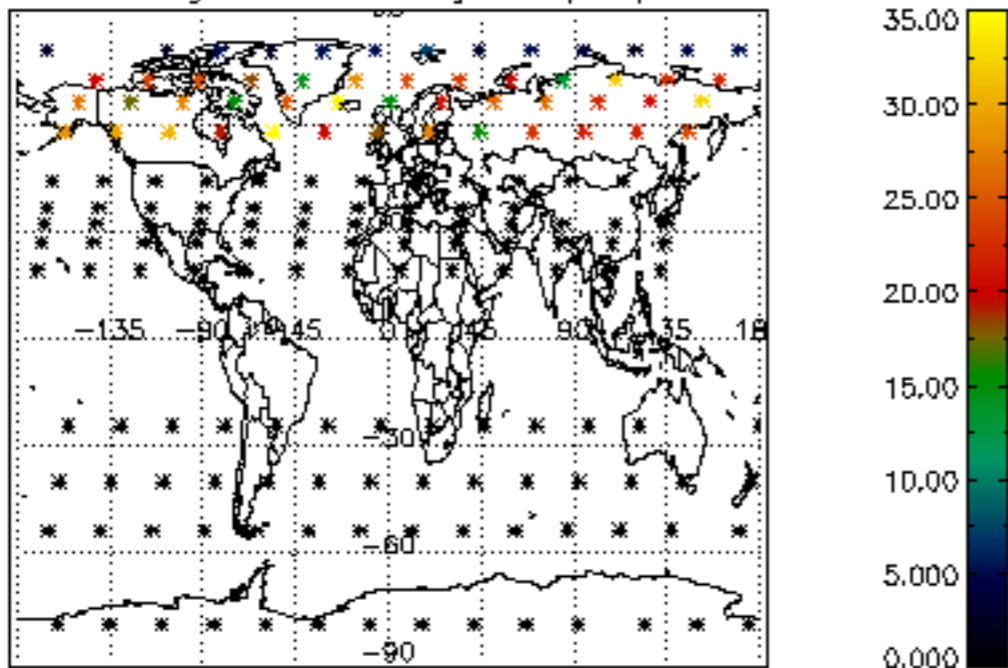
Percentage of star falling outside central band per profile



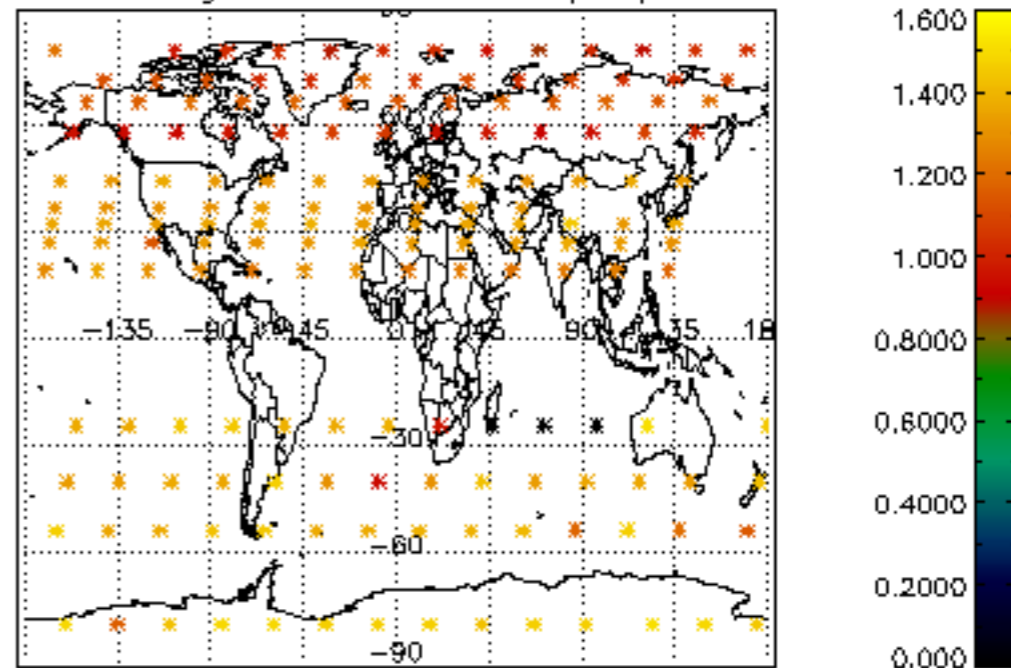
Percentage of saturation errors per profile



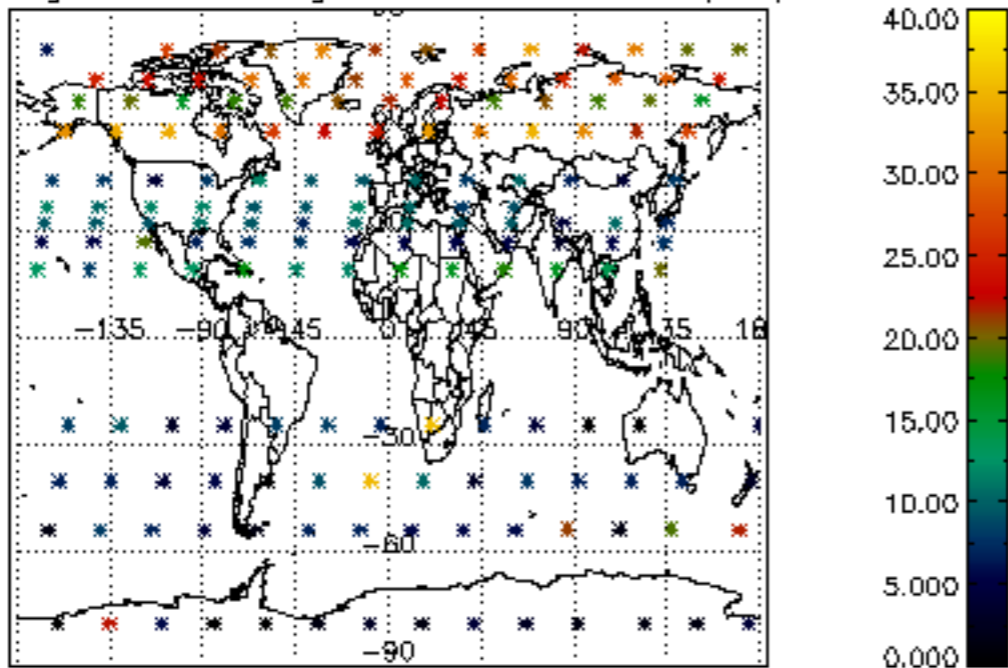
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

