

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](#)

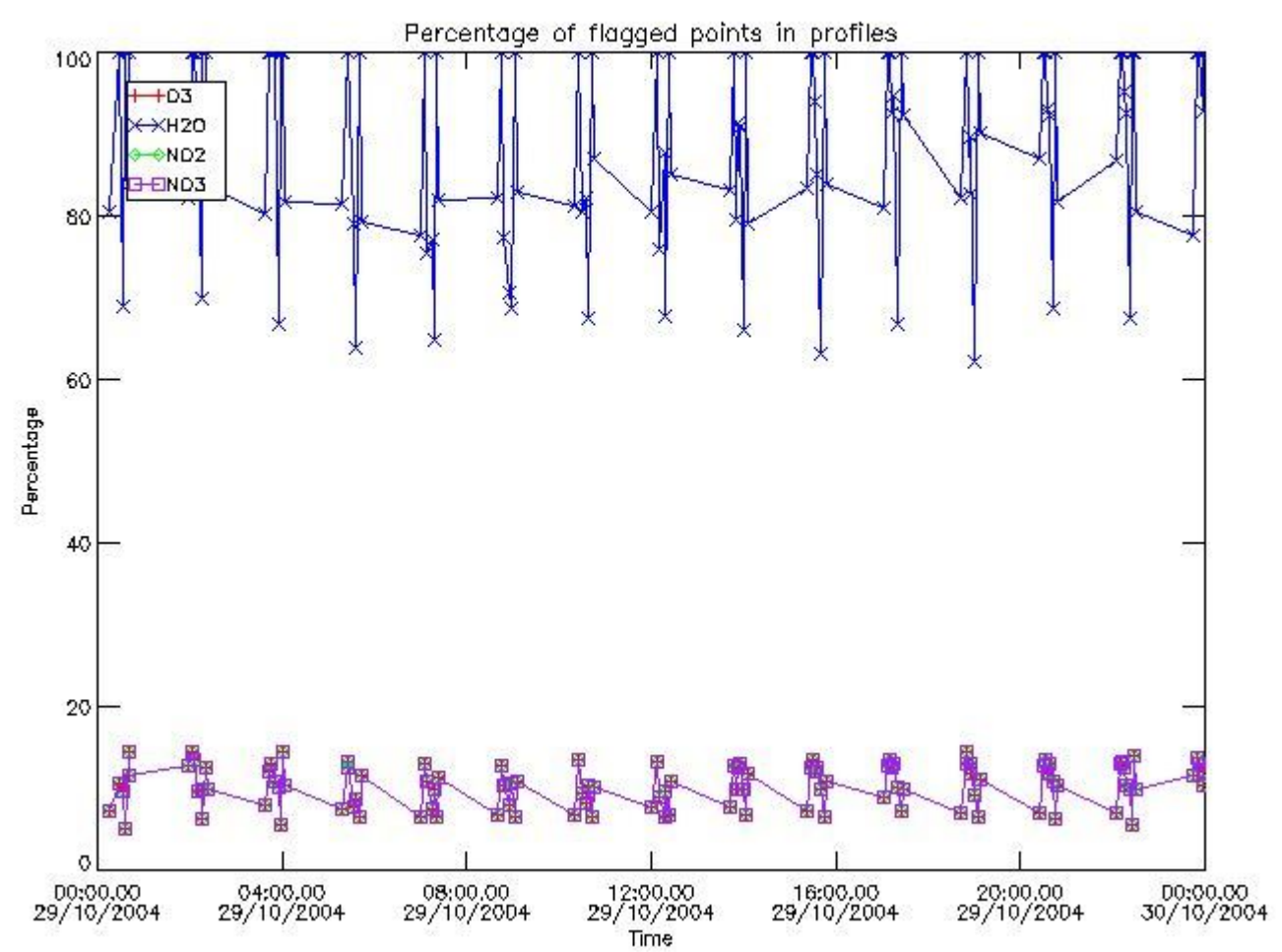
[6. Auxiliary Data Files used for the production reported in section 2](#)

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	19APR2013 14:11:27
Data source version	GOMOS/6.01
Start time of products	29-10-2004 (29OCT2004 00:00:00)
Stop time of products	30-10-2004 (30OCT2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	385
Nb of prods with errors	0

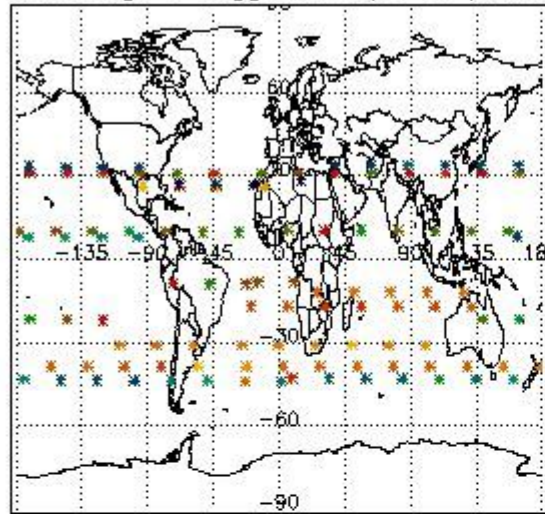
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20041029_000251_000002552031_00345_13926_5574.N1	29-OCT-2004 00:02:51	Twilight	254.50	24	66Alp Gem	1.5800	10200.	509	13926	No
2	GOM_NL__2PRFIN20041029_000728_000002552031_00345_13926_5575.N1	29-OCT-2004 00:07:28	Straylight	254.50	17	78Bet Gem	1.1610	4500.0	509	13926	No
3	GOM_NL__2PRFIN20041029_001633_000000702031_00345_13926_5576.N1	29-OCT-2004 00:16:33	Dark	69.500	48	30Alp Hya	1.9770	4100.0	139	13926	No
4	GOM_NL__2PRFIN20041029_002858_000000492031_00346_13927_5554.N1	29-OCT-2004 00:28:58	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	13927	No
5	GOM_NL__2PRFIN20041029_003428_000000542031_00346_13927_5555.N1	29-OCT-2004 00:34:28	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	13927	No
6	GOM_NL__2PRFIN20041029_003616_000001002031_00346_13927_5556.N1	29-OCT-2004 00:36:16	Dark	99.500	179	24Omi2Cma	3.0320	24000.	199	13927	No
7	GOM_NL__2PRFIN20041029_004029_000000392031_00346_13927_5557.N1	29-OCT-2004 00:40:29	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	13927	No
8	GOM_NL__2PRFIN20041029_004152_000000442031_00346_13927_5558.N1	29-OCT-2004 00:41:52	Dark	44.000	9	Alp Eri	0.45300	24000.	88	13927	No
9	GOM_NL__2PRFIN20041029_004503_000000482031_00346_13927_5559.N1	29-OCT-2004 00:45:03	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	13927	No
10	GOM_NL__2PRFIN20041029_004640_000000402031_00346_13927_5560.N1	29-OCT-2004 00:46:40	Straylight	40.000	84	Alp Phe	2.3970	4500.0	80	13927	No
11	GOM_NL__2PRFIN20041029_005314_000000462031_00346_13927_5561.N1	29-OCT-2004 00:53:14	Straylight	45.500	52	16Bet Cet	2.0370	4500.0	91	13927	No
12	GOM_NL__2PRFIN20041029_010000_000000702031_00346_13927_5562.N1	29-OCT-2004 01:00:00	Bright	69.500	94	92Alp Cet	2.5260	3100.0	139	13927	No
13	GOM_NL__2PRFIN20041029_010243_000000382031_00346_13927_5563.N1	29-OCT-2004 01:02:43	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	13927	No
14	GOM_NL__2PRFIN20041029_010416_000000432031_00346_13927_5564.N1	29-OCT-2004 01:04:16	Bright	42.500	105	6Bet Ari	2.6450	8900.0	85	13927	No
15	GOM_NL__2PRFIN20041029_010634_000000392031_00346_13927_5565.N1	29-OCT-2004 01:06:34	Bright	39.000	58	21Alp And	2.0730	11000.	78	13927	No
16	GOM_NL__2PRFIN20041029_010812_000000412031_00346_13927_5566.N1	29-OCT-2004 01:08:12	Bright	41.000	53	43Bet And	2.0480	3300.0	82	13927	No
17	GOM_NL__2PRFIN20041029_011049_000000432031_00346_13927_5567.N1	29-OCT-2004 01:10:49	Bright	42.500	73	57Gam1And	2.2600	13100.	85	13927	No
18	GOM_NL__2PRFIN20041029_011225_000000482031_00346_13927_5568.N1	29-OCT-2004 01:12:25	Bright	47.500	79	26Bet Per	2.3100	13100.	95	13927	No
19	GOM_NL__2PRFIN20041029_011451_000000372031_00346_13927_5569.N1	29-OCT-2004 01:14:51	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	13927	No
20	GOM_NL__2PRFIN20041029_011827_000000392031_00346_13927_5570.N1	29-OCT-2004 01:18:27	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	13927	No
21	GOM_NL__2PRFIN20041029_012320_000000392031_00346_13927_5571.N1	29-OCT-2004 01:23:20	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	13927	No
22	GOM_NL__2PRFIN20041029_012702_000000392031_00346_13927_5572.N1	29-OCT-2004 01:27:02	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	13927	No
23	GOM_NL__2PRFIN20041029_013132_000000382031_00346_13927_5573.N1	29-OCT-2004 01:31:32	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	13927	No
24	GOM_NL__2PRFIN20041029_013258_000000522031_00346_13927_5574.N1	29-OCT-2004 01:32:58	Bright	52.000	32	77Eps UMa	1.7630	11000.	104	13927	No
25	GOM_NL__2PRFIN20041029_013645_000000392031_00346_13927_5575.N1	29-OCT-2004 01:36:45	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	13927	No
26	GOM_NL__2PRFIN20041029_014328_000002312031_00346_13927_5576.N1	29-OCT-2004 01:43:28	Twilight	231.00	24	66Alp Gem	1.5800	10200.	462	13927	No
27	GOM_NL__2PRFIN20041029_014807_000002552031_00346_13927_5577.N1	29-OCT-2004 01:48:07	Straylight	255.00	17	78Bet Gem	1.1610	4500.0	510	13927	No
28	GOM_NL__2PRFIN20041029_015710_000000682031_00346_13927_5578.N1	29-OCT-2004 01:57:10	Dark	67.500	48	30Alp Hya	1.9770	4100.0	135	13927	No
29	GOM_NL__2PRFIN20041029_020255_000000392031_00346_13927_5579.N1	29-OCT-2004 02:02:55	Dark	38.500	99	Del Cen	2.5750	26000.	77	13927	No
30	GOM_NL__2PRFIN20041029_020506_000000382031_00346_13927_5580.N1	29-OCT-2004 02:05:06	Dark	38.000	129	Del Cru	2.7930	26000.	76	13927	No
31	GOM_NL__2PRFIN20041029_020934_000000532031_00347_13928_5557.N1	29-OCT-2004 02:09:34	Dark	53.000	34	Gam2Vel	1.7930	23000.	106	13928	No
32	GOM_NL__2PRFIN20041029_021504_000000522031_00347_13928_5558.N1	29-OCT-2004 02:15:04	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	13928	No
33	GOM_NL__2PRFIN20041029_021654_000000992031_00347_13928_5559.N1	29-OCT-2004 02:16:54	Dark	99.000	179	24Omi2Cma	3.0320	24000.	198	13928	No
34	GOM_NL__2PRFIN20041029_022104_000000412031_00347_13928_5560.N1	29-OCT-2004 02:21:04	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	13928	No
35	GOM_NL__2PRFIN20041029_022228_000000522031_00347_13928_5561.N1	29-OCT-2004 02:22:28	Dark	52.000	9	Alp Eri	0.45300	24000.	104	13928	No
36	GOM_NL__2PRFIN20041029_022540_000000452031_00347_13928_5562.N1	29-OCT-2004 02:25:40	Straylight	44.500	157	The1Eri	2.9060	9300.0	89	13928	No
37	GOM_NL__2PRFIN20041029_022715_000000442031_00347_13928_5563.N1	29-OCT-2004 02:27:15	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	13928	No
38	GOM_NL__2PRFIN20041029_023350_000000432031_00347_13928_5564.N1	29-OCT-2004 02:33:50	Straylight	43.000	52	16Bet Cet	2.0370	4500.0	86	13928	No
39	GOM_NL__2PRFIN20041029_024036_000000672031_00347_13928_5565.N1	29-OCT-2004 02:40:36	Bright	66.500	94	92Alp Cet	2.5260	3100.0	133	13928	No
40	GOM_NL__2PRFIN20041029_024319_000000382031_00347_13928_5566.N1	29-OCT-2004 02:43:19	Bright	38.000	140	88Gam Peg	2.8340	26000.	76	13928	No
41	GOM_NL__2PRFIN20041029_024452_000000432031_00347_13928_5567.N1	29-OCT-2004 02:44:52	Bright	43.000	105	6Bet Ari	2.6450	8900.0	86	13928	No
42	GOM_NL__2PRFIN20041029_024710_000000392031_00347_13928_5568.N1	29-OCT-2004 02:47:10	Bright	39.000	58	21Alp And	2.0730	11000.	78	13928	No

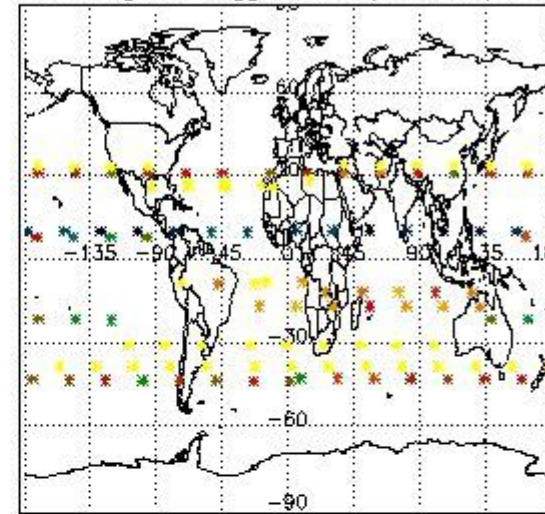


3.2 Plot quality information per product (world map)

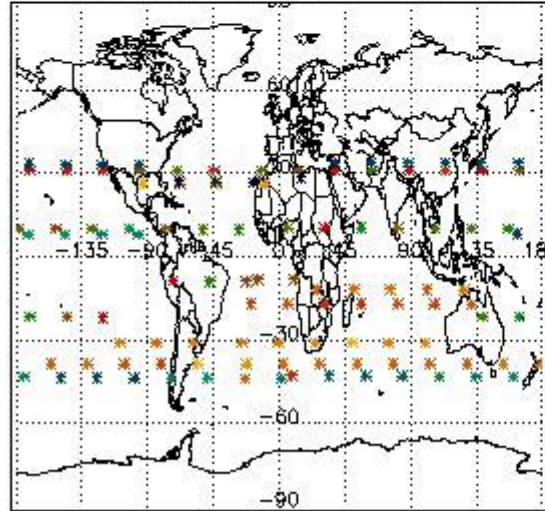
Percentage of flagged data per O3 profile



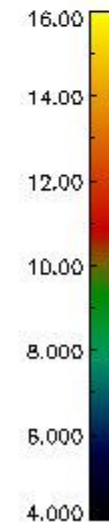
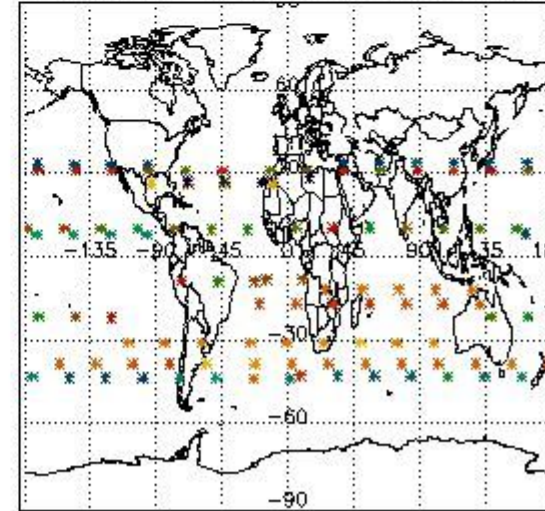
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

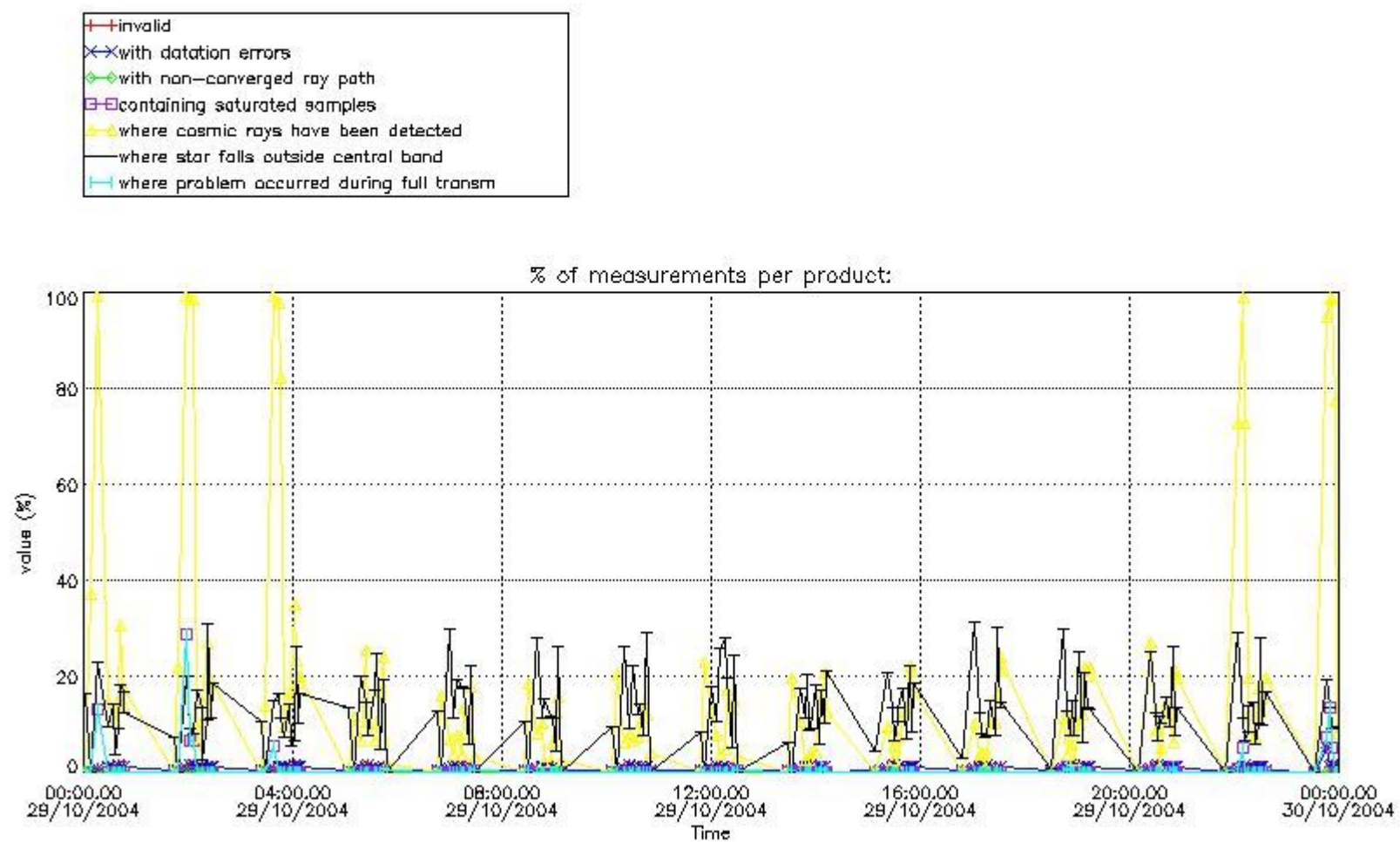


4. Level 1 quality information per product

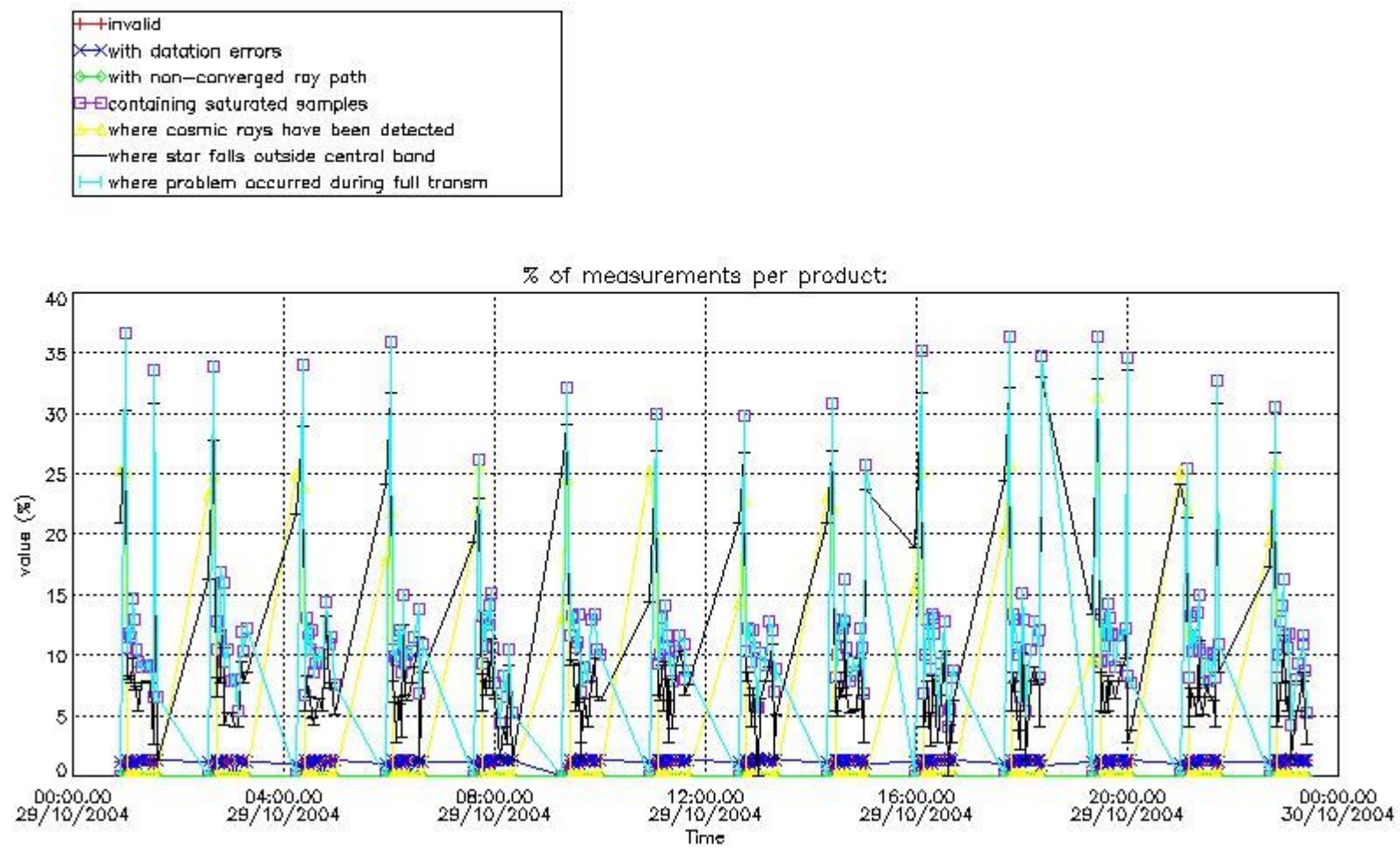
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



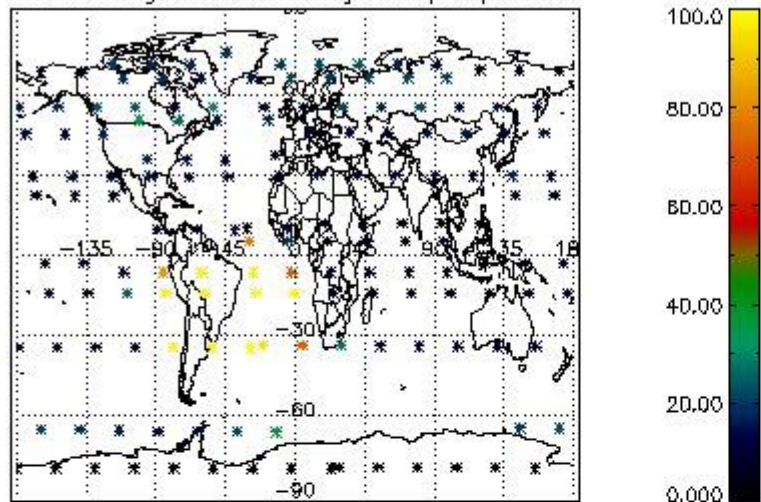
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



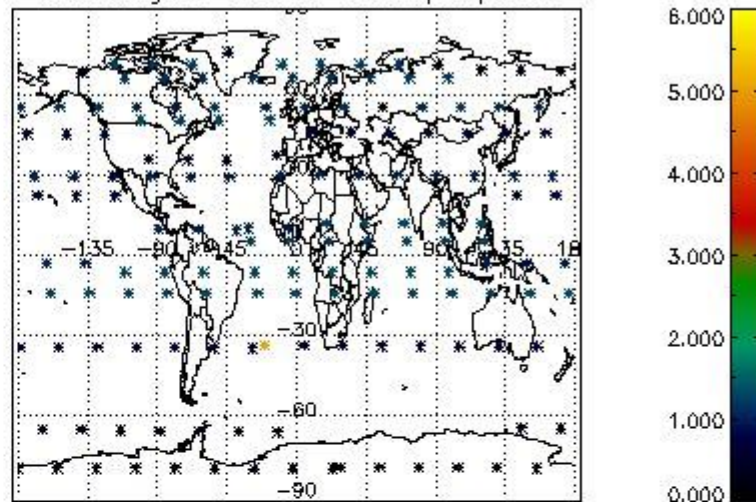
4.2 Plot quality information per product coming from level 1b processing (world map)

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

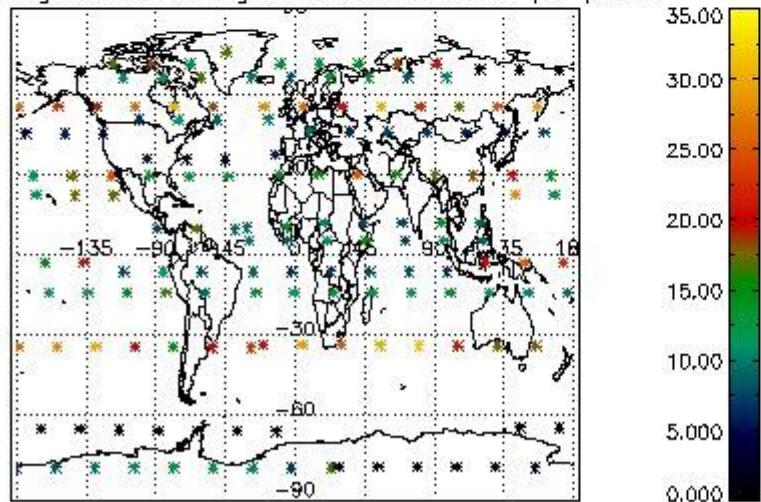
Percentage of cosmic ray hits per profile



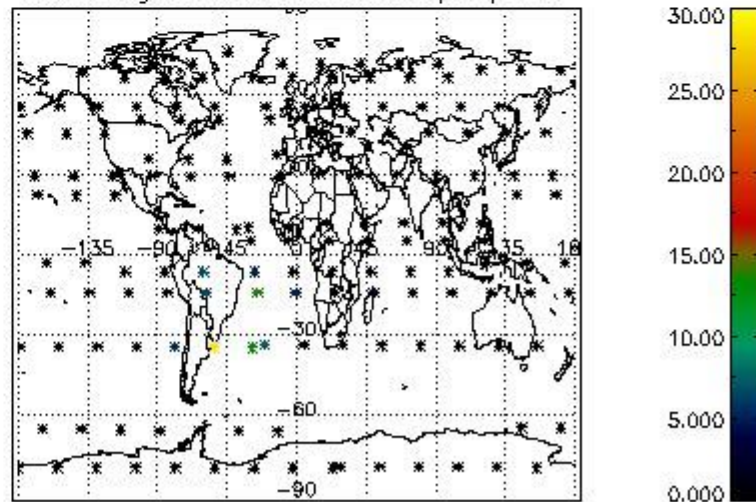
Percentage of datation errors per profile



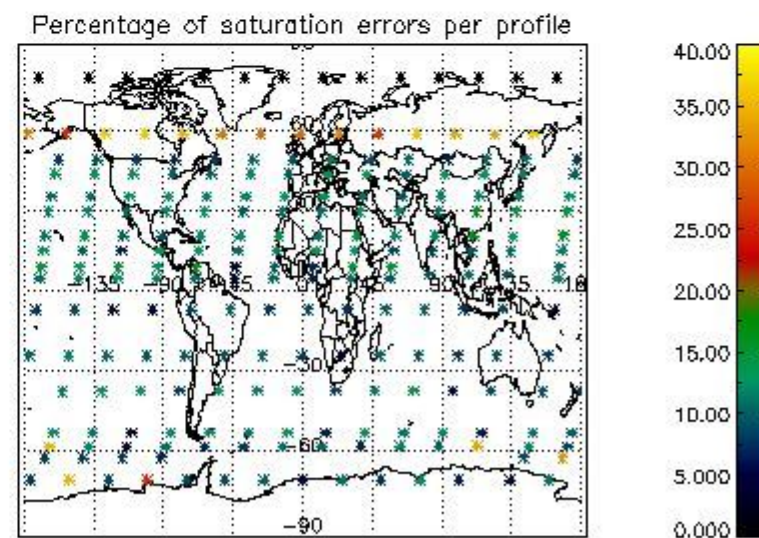
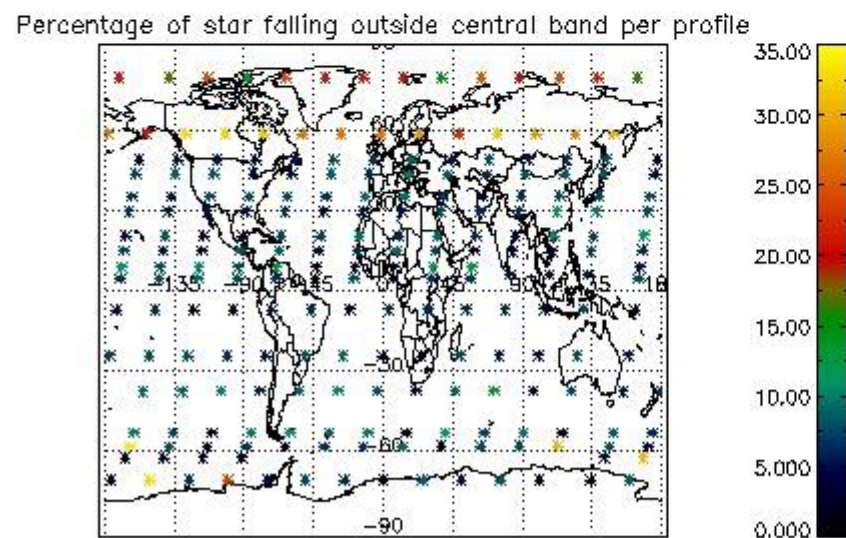
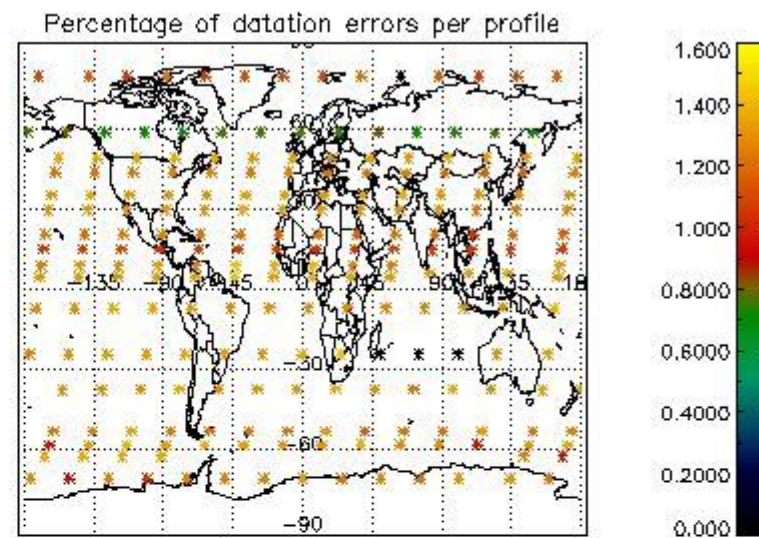
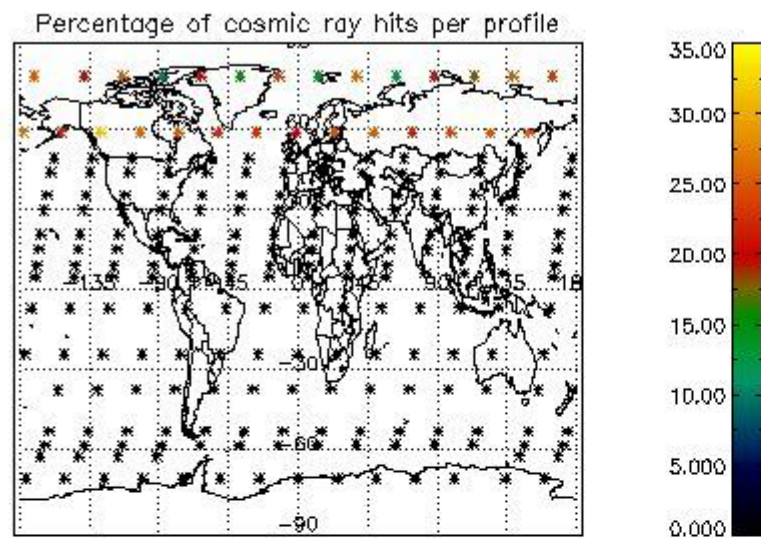
Percentage of star falling outside central band per profile



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

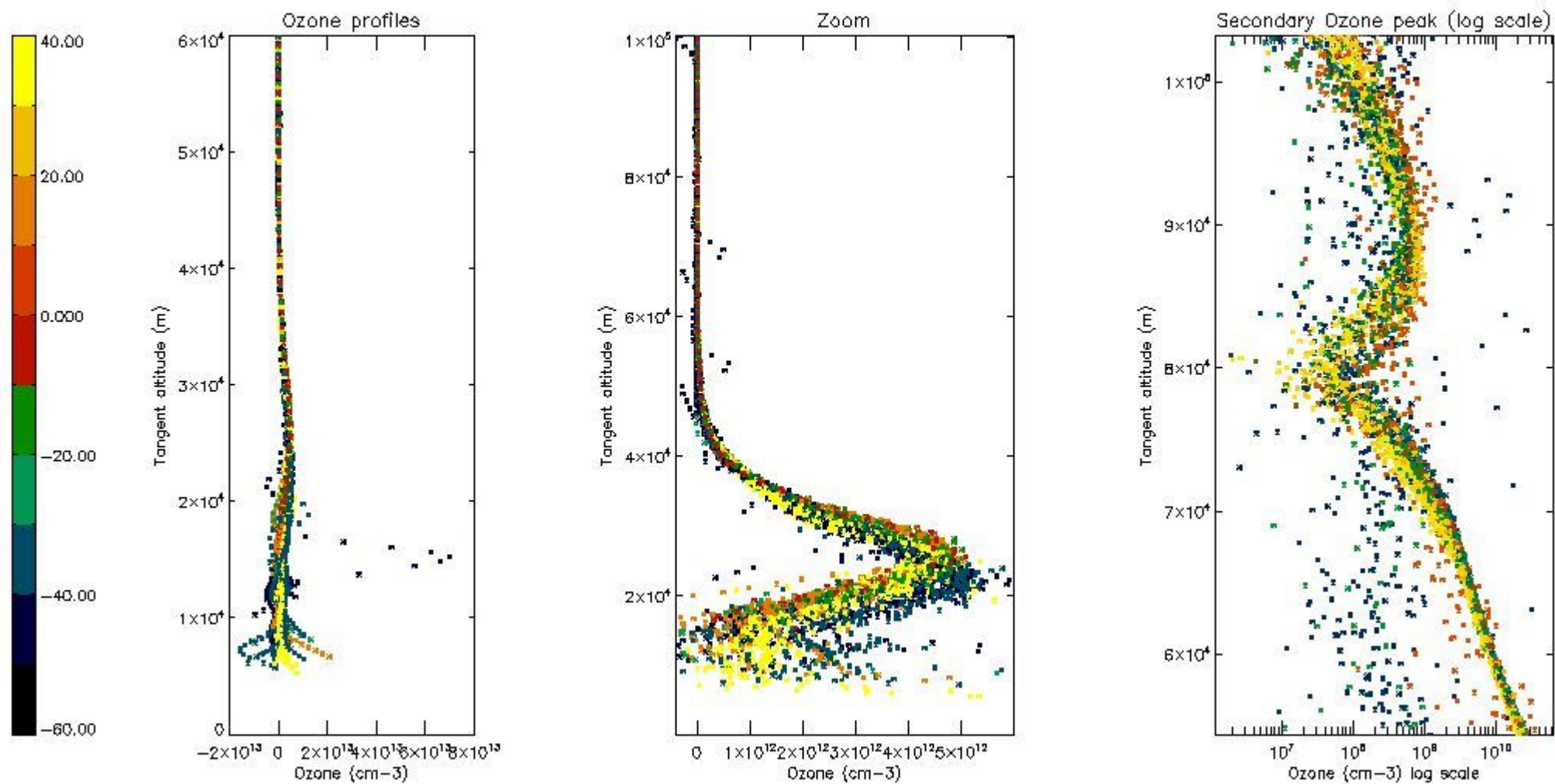
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	15

STD < 10	13
STD < 5	9

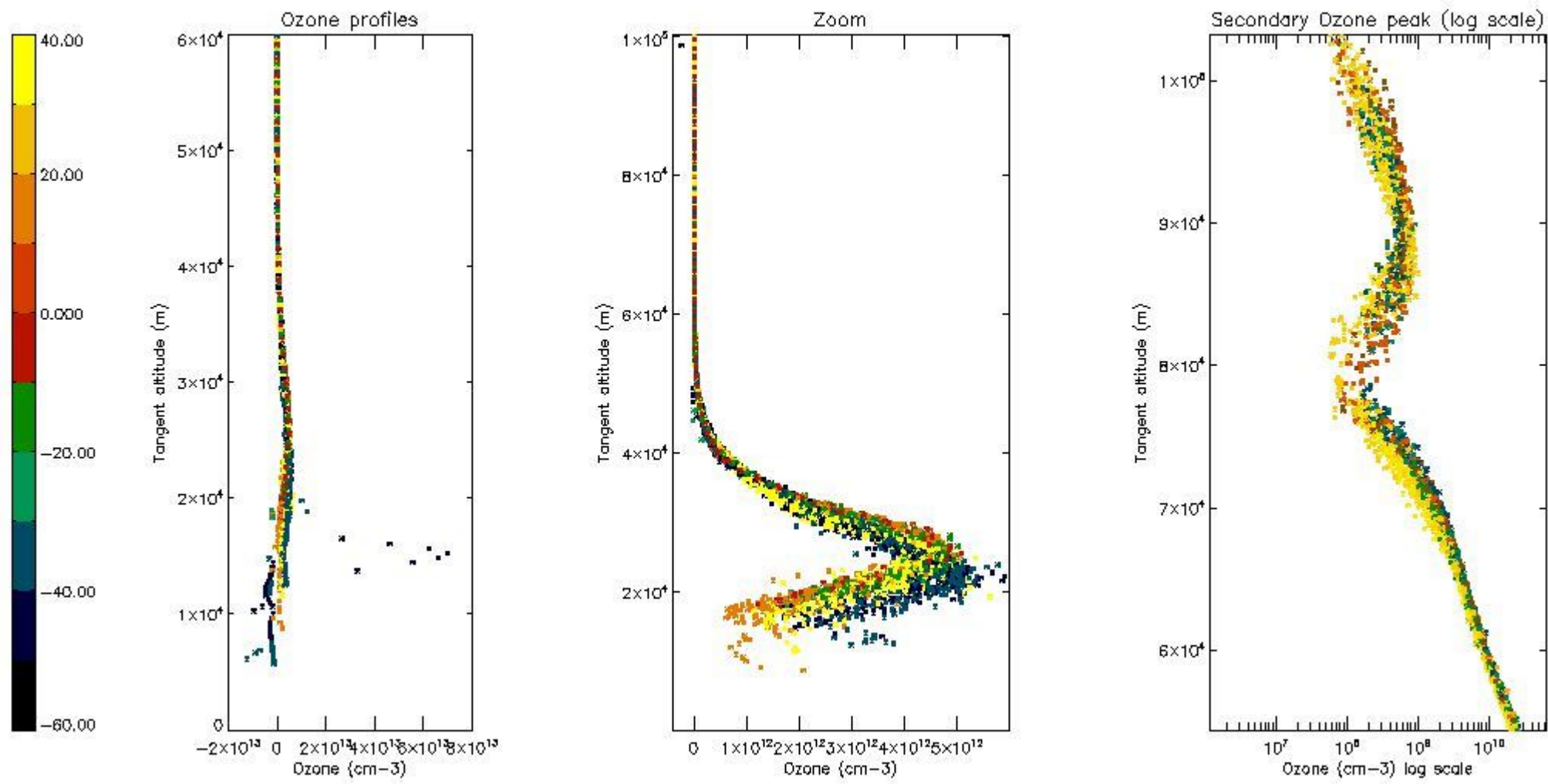
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



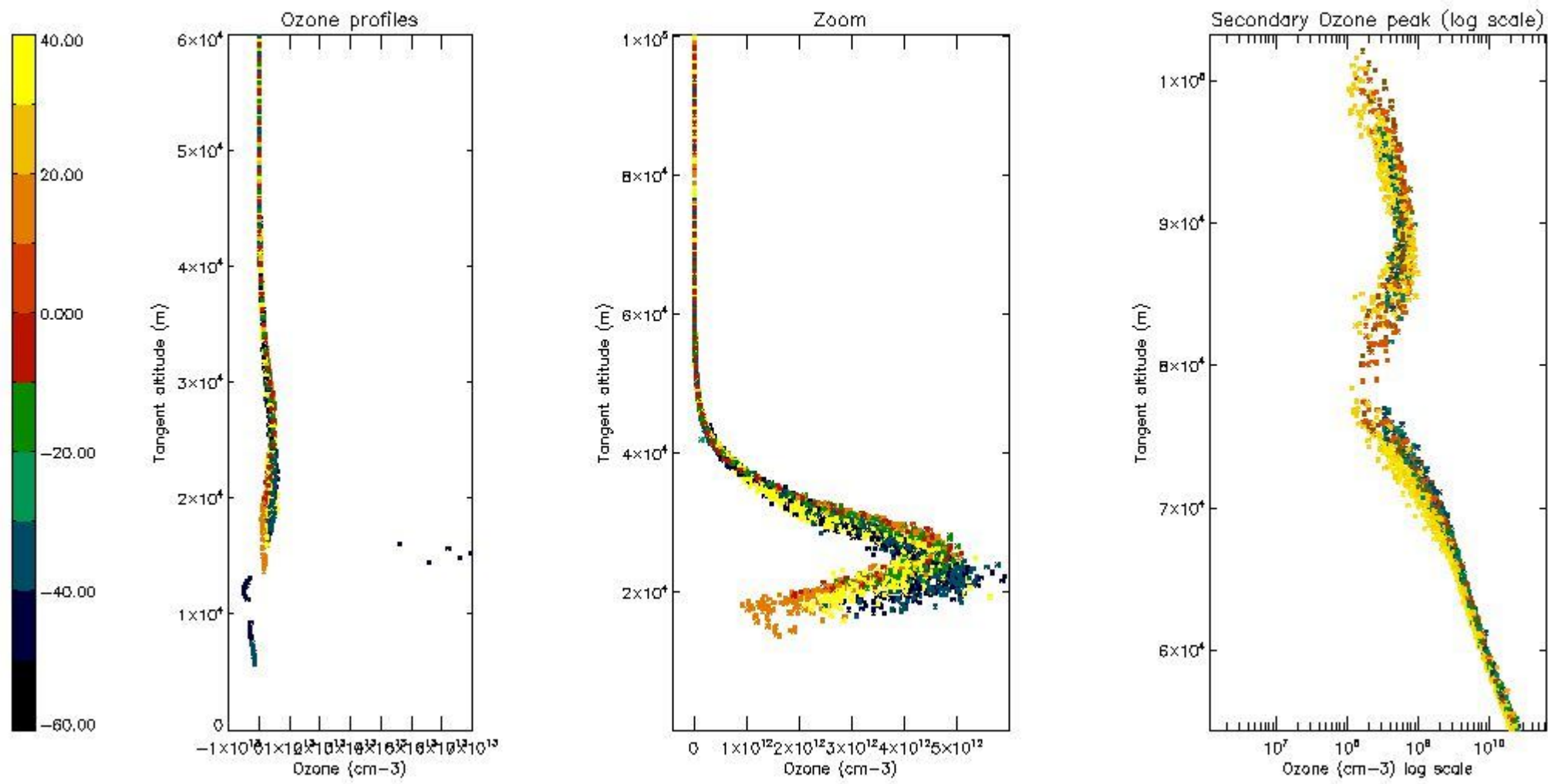
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



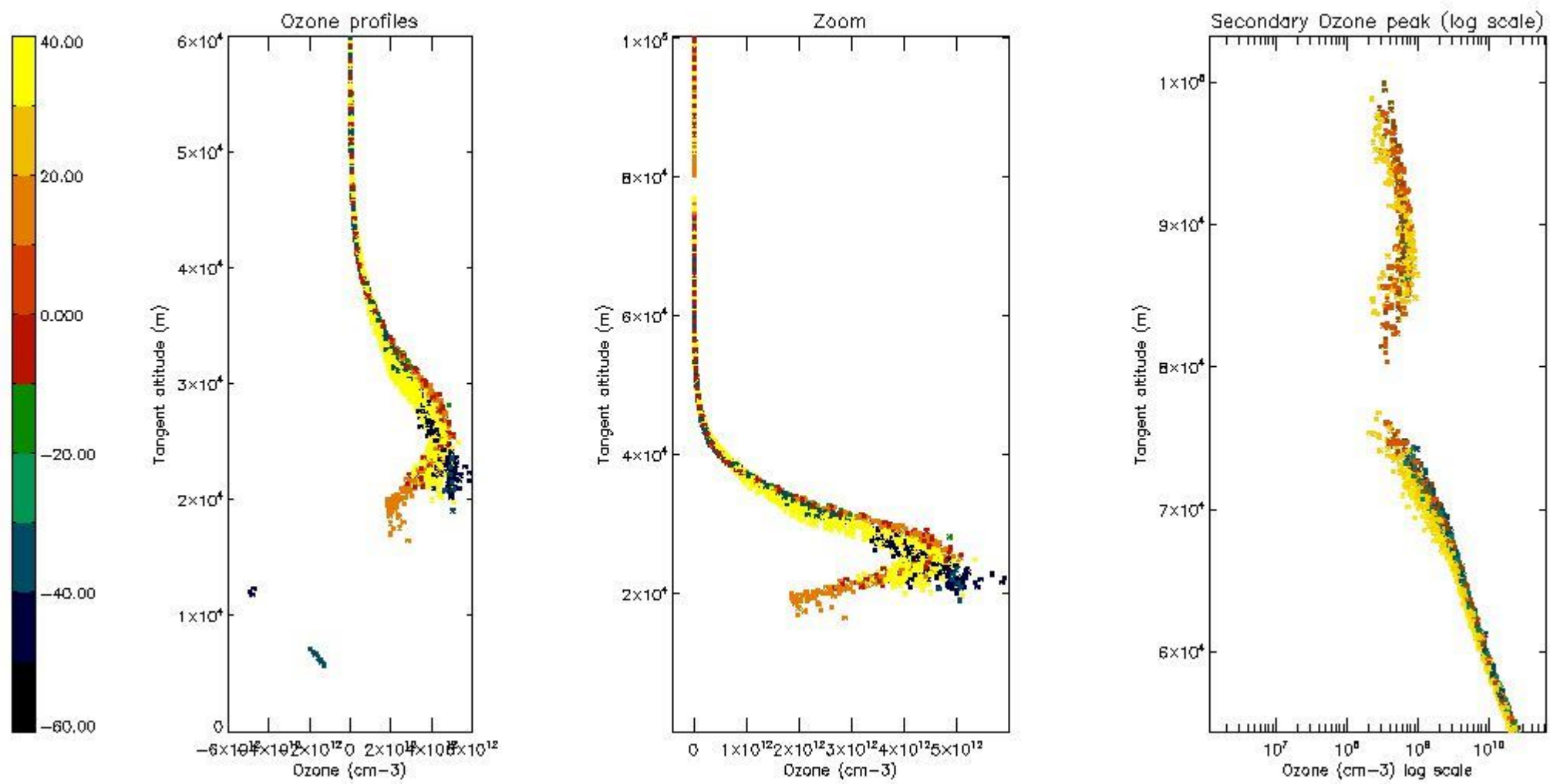
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



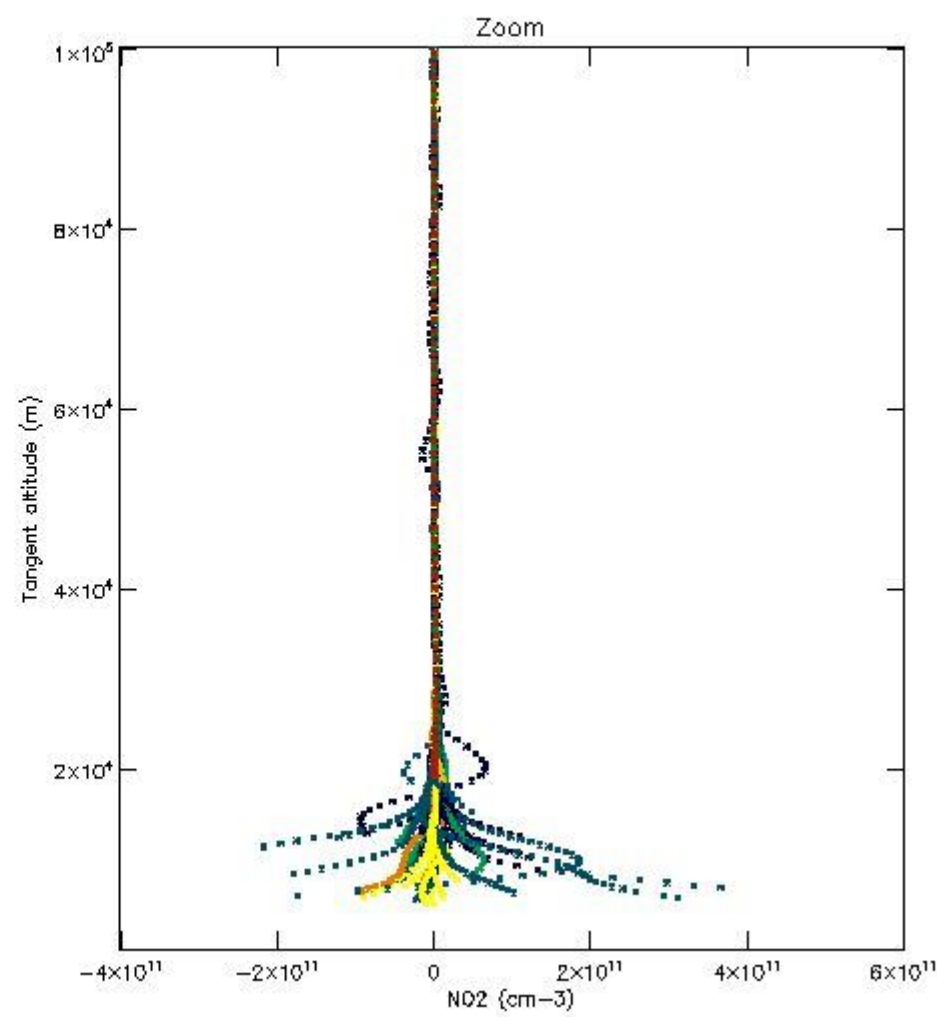
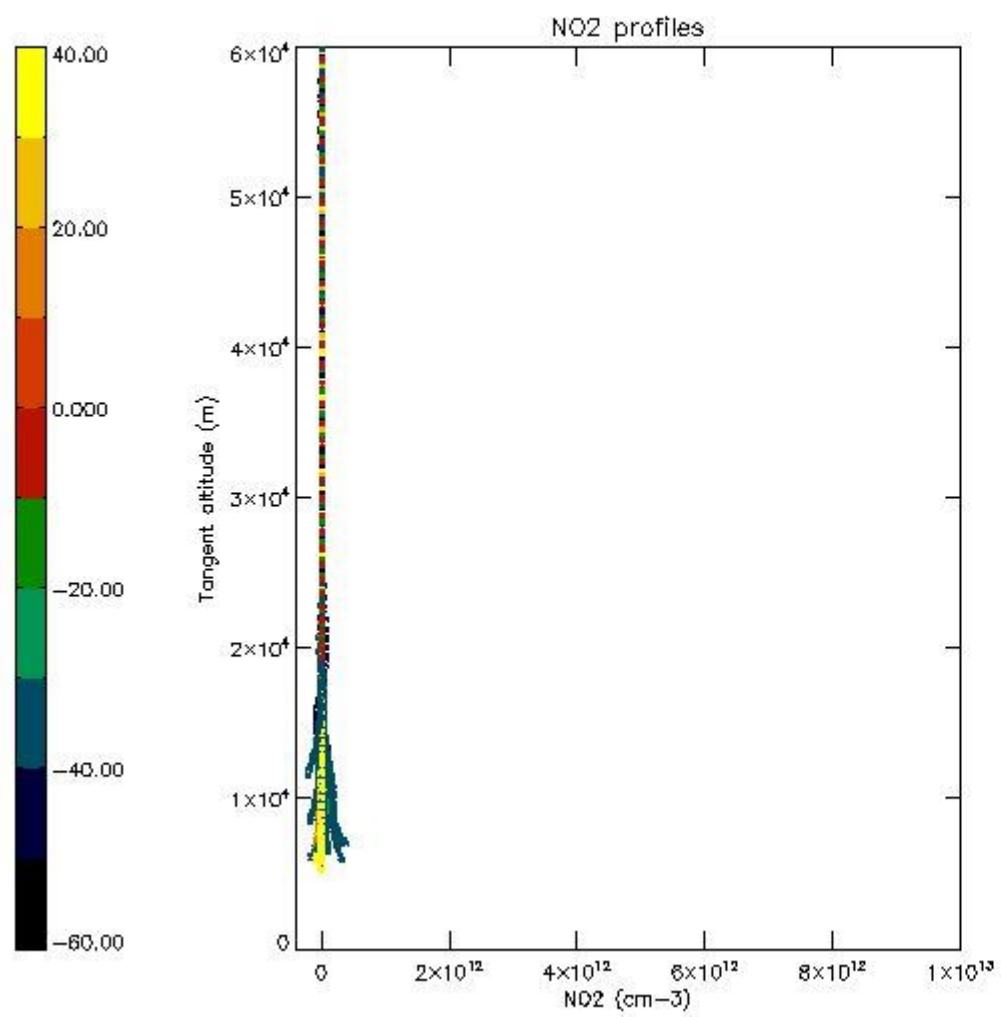
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



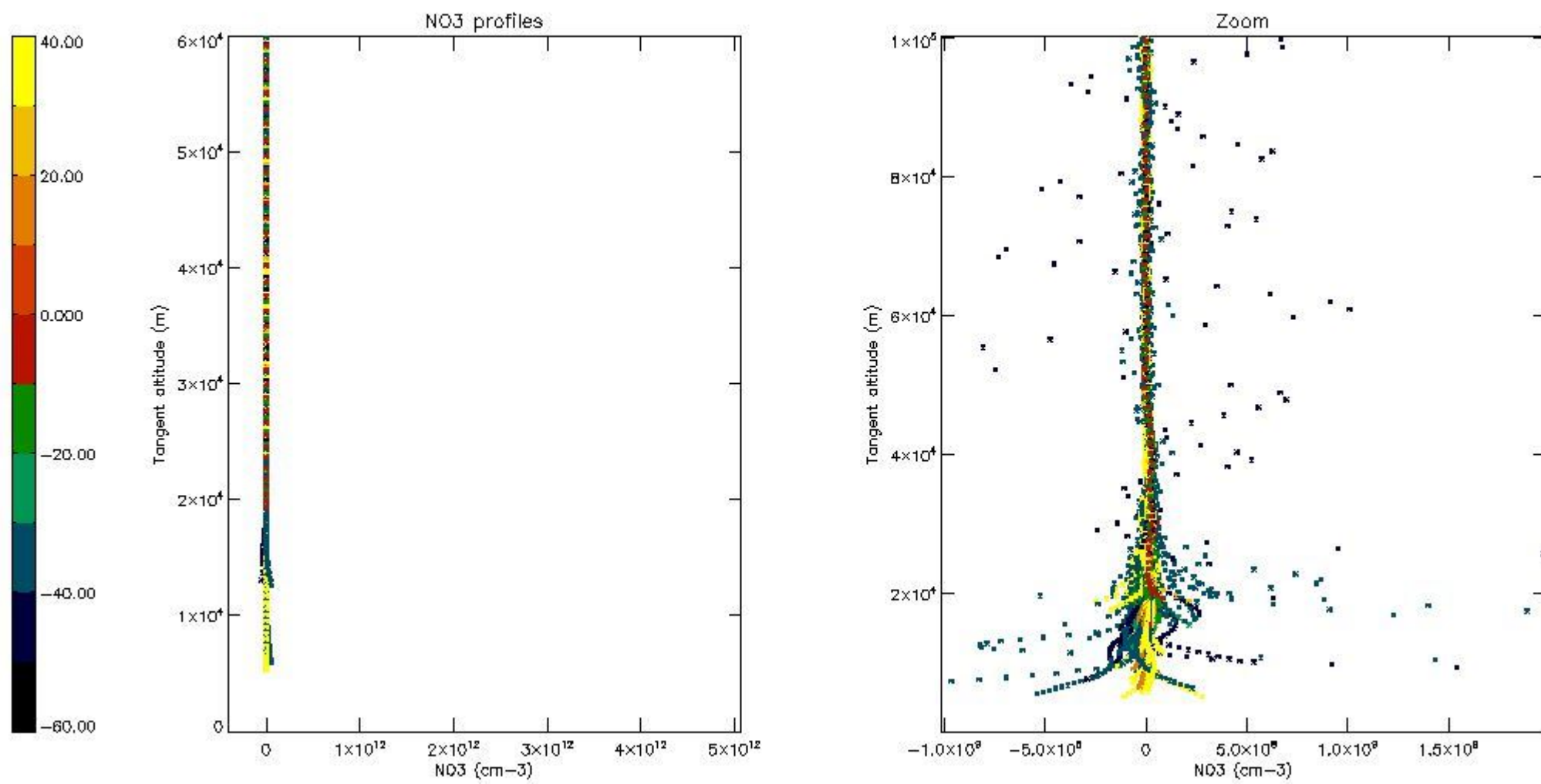
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



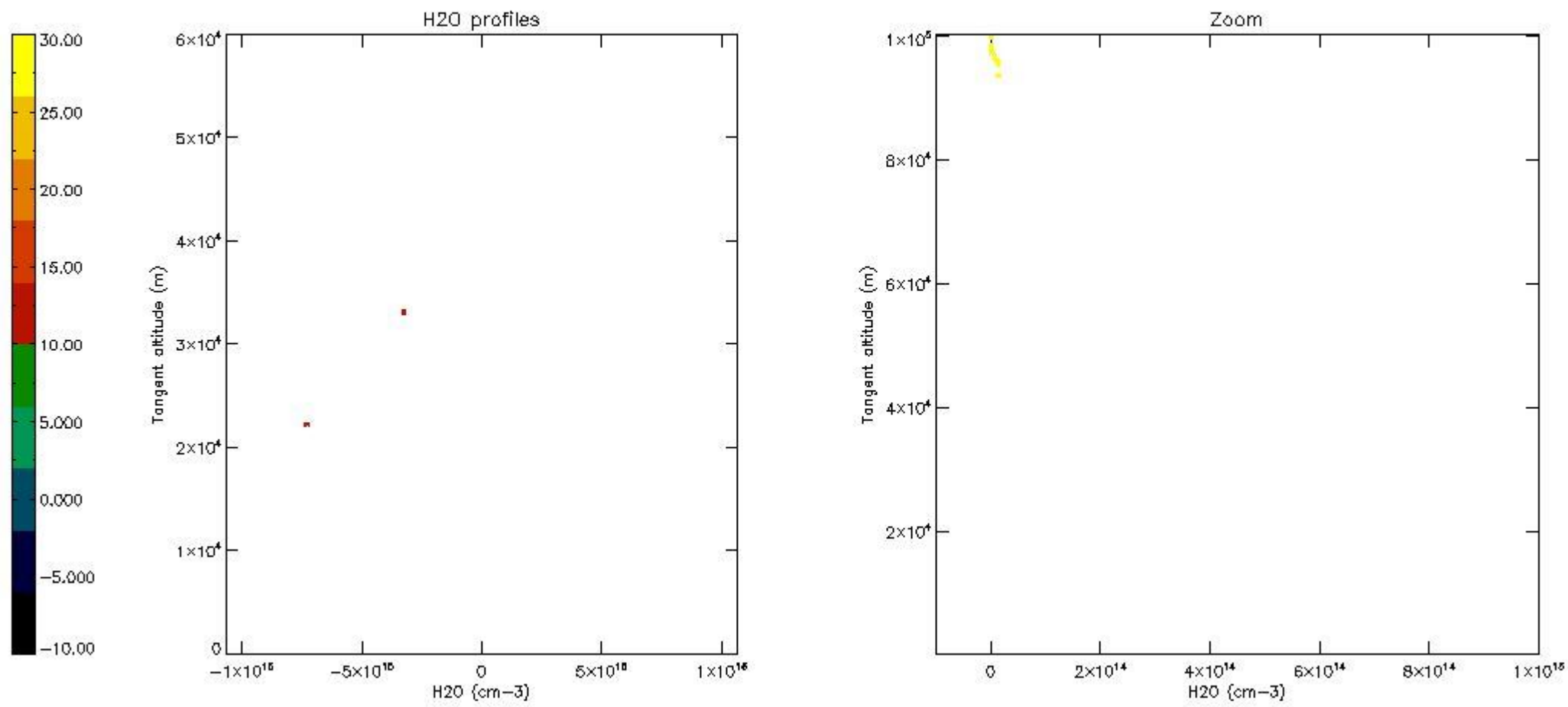
5.7 Plot NO3 profiles for all STD (dark without errors)

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	29-OCT-2004 00:02:51
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	29-OCT-2004 00:02:51
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	29-OCT-2004 00:02:51

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[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](#)

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[5.1 Ozone statistics based on quality of products](#)

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[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](#)

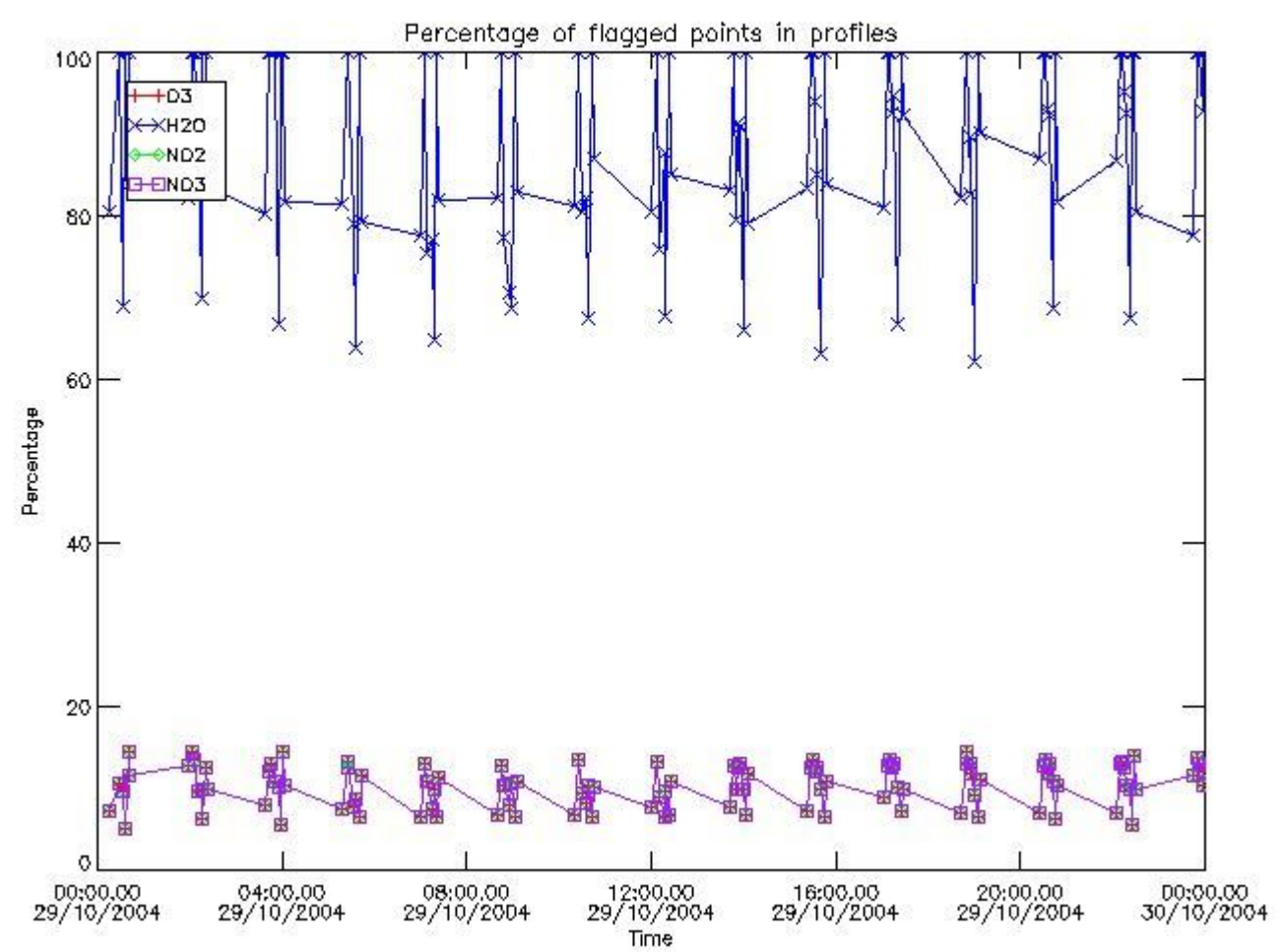
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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that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

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Time of report generation	19APR2013 14:11:27
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Start time of products	29-10-2004 (29OCT2004 00:00:00)
Stop time of products	30-10-2004 (30OCT2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	385
Nb of prods with errors	0

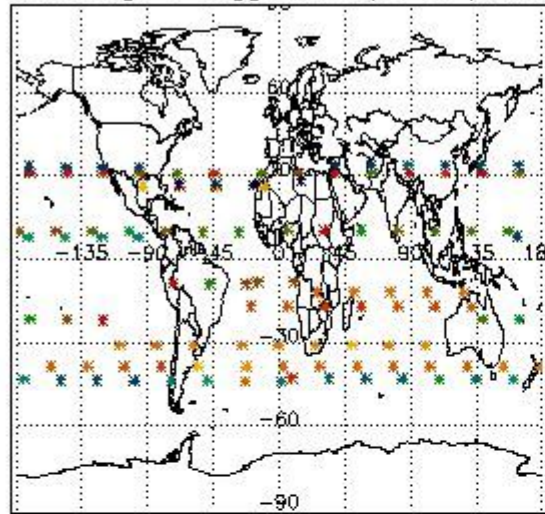
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20041029_000251_000002552031_00345_13926_5574.N1	29-OCT-2004 00:02:51	Twilight	254.50	24	66Alp Gem	1.5800	10200.	509	13926	No
2	GOM_NL__2PRFIN20041029_000728_000002552031_00345_13926_5575.N1	29-OCT-2004 00:07:28	Straylight	254.50	17	78Bet Gem	1.1610	4500.0	509	13926	No
3	GOM_NL__2PRFIN20041029_001633_000000702031_00345_13926_5576.N1	29-OCT-2004 00:16:33	Dark	69.500	48	30Alp Hya	1.9770	4100.0	139	13926	No
4	GOM_NL__2PRFIN20041029_002858_000000492031_00346_13927_5554.N1	29-OCT-2004 00:28:58	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	13927	No
5	GOM_NL__2PRFIN20041029_003428_000000542031_00346_13927_5555.N1	29-OCT-2004 00:34:28	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	13927	No
6	GOM_NL__2PRFIN20041029_003616_000001002031_00346_13927_5556.N1	29-OCT-2004 00:36:16	Dark	99.500	179	24Omi2Cma	3.0320	24000.	199	13927	No
7	GOM_NL__2PRFIN20041029_004029_000000392031_00346_13927_5557.N1	29-OCT-2004 00:40:29	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	13927	No
8	GOM_NL__2PRFIN20041029_004152_000000442031_00346_13927_5558.N1	29-OCT-2004 00:41:52	Dark	44.000	9	Alp Eri	0.45300	24000.	88	13927	No
9	GOM_NL__2PRFIN20041029_004503_000000482031_00346_13927_5559.N1	29-OCT-2004 00:45:03	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	13927	No
10	GOM_NL__2PRFIN20041029_004640_000000402031_00346_13927_5560.N1	29-OCT-2004 00:46:40	Straylight	40.000	84	Alp Phe	2.3970	4500.0	80	13927	No
11	GOM_NL__2PRFIN20041029_005314_000000462031_00346_13927_5561.N1	29-OCT-2004 00:53:14	Straylight	45.500	52	16Bet Cet	2.0370	4500.0	91	13927	No
12	GOM_NL__2PRFIN20041029_010000_000000702031_00346_13927_5562.N1	29-OCT-2004 01:00:00	Bright	69.500	94	92Alp Cet	2.5260	3100.0	139	13927	No
13	GOM_NL__2PRFIN20041029_010243_000000382031_00346_13927_5563.N1	29-OCT-2004 01:02:43	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	13927	No
14	GOM_NL__2PRFIN20041029_010416_000000432031_00346_13927_5564.N1	29-OCT-2004 01:04:16	Bright	42.500	105	6Bet Ari	2.6450	8900.0	85	13927	No
15	GOM_NL__2PRFIN20041029_010634_000000392031_00346_13927_5565.N1	29-OCT-2004 01:06:34	Bright	39.000	58	21Alp And	2.0730	11000.	78	13927	No
16	GOM_NL__2PRFIN20041029_010812_000000412031_00346_13927_5566.N1	29-OCT-2004 01:08:12	Bright	41.000	53	43Bet And	2.0480	3300.0	82	13927	No
17	GOM_NL__2PRFIN20041029_011049_000000432031_00346_13927_5567.N1	29-OCT-2004 01:10:49	Bright	42.500	73	57Gam1And	2.2600	13100.	85	13927	No
18	GOM_NL__2PRFIN20041029_011225_000000482031_00346_13927_5568.N1	29-OCT-2004 01:12:25	Bright	47.500	79	26Bet Per	2.3100	13100.	95	13927	No
19	GOM_NL__2PRFIN20041029_011451_000000372031_00346_13927_5569.N1	29-OCT-2004 01:14:51	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	13927	No
20	GOM_NL__2PRFIN20041029_011827_000000392031_00346_13927_5570.N1	29-OCT-2004 01:18:27	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	13927	No
21	GOM_NL__2PRFIN20041029_012320_000000392031_00346_13927_5571.N1	29-OCT-2004 01:23:20	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	13927	No
22	GOM_NL__2PRFIN20041029_012702_000000392031_00346_13927_5572.N1	29-OCT-2004 01:27:02	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	13927	No
23	GOM_NL__2PRFIN20041029_013132_000000382031_00346_13927_5573.N1	29-OCT-2004 01:31:32	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	13927	No
24	GOM_NL__2PRFIN20041029_013258_000000522031_00346_13927_5574.N1	29-OCT-2004 01:32:58	Bright	52.000	32	77Eps UMa	1.7630	11000.	104	13927	No
25	GOM_NL__2PRFIN20041029_013645_000000392031_00346_13927_5575.N1	29-OCT-2004 01:36:45	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	13927	No
26	GOM_NL__2PRFIN20041029_014328_000002312031_00346_13927_5576.N1	29-OCT-2004 01:43:28	Twilight	231.00	24	66Alp Gem	1.5800	10200.	462	13927	No
27	GOM_NL__2PRFIN20041029_014807_000002552031_00346_13927_5577.N1	29-OCT-2004 01:48:07	Straylight	255.00	17	78Bet Gem	1.1610	4500.0	510	13927	No
28	GOM_NL__2PRFIN20041029_015710_000000682031_00346_13927_5578.N1	29-OCT-2004 01:57:10	Dark	67.500	48	30Alp Hya	1.9770	4100.0	135	13927	No
29	GOM_NL__2PRFIN20041029_020255_000000392031_00346_13927_5579.N1	29-OCT-2004 02:02:55	Dark	38.500	99	Del Cen	2.5750	26000.	77	13927	No
30	GOM_NL__2PRFIN20041029_020506_000000382031_00346_13927_5580.N1	29-OCT-2004 02:05:06	Dark	38.000	129	Del Cru	2.7930	26000.	76	13927	No
31	GOM_NL__2PRFIN20041029_020934_000000532031_00347_13928_5557.N1	29-OCT-2004 02:09:34	Dark	53.000	34	Gam2Vel	1.7930	23000.	106	13928	No
32	GOM_NL__2PRFIN20041029_021504_000000522031_00347_13928_5558.N1	29-OCT-2004 02:15:04	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	13928	No
33	GOM_NL__2PRFIN20041029_021654_000000992031_00347_13928_5559.N1	29-OCT-2004 02:16:54	Dark	99.000	179	24Omi2Cma	3.0320	24000.	198	13928	No
34	GOM_NL__2PRFIN20041029_022104_000000412031_00347_13928_5560.N1	29-OCT-2004 02:21:04	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	13928	No
35	GOM_NL__2PRFIN20041029_022228_000000522031_00347_13928_5561.N1	29-OCT-2004 02:22:28	Dark	52.000	9	Alp Eri	0.45300	24000.	104	13928	No
36	GOM_NL__2PRFIN20041029_022540_000000452031_00347_13928_5562.N1	29-OCT-2004 02:25:40	Straylight	44.500	157	The1Eri	2.9060	9300.0	89	13928	No
37	GOM_NL__2PRFIN20041029_022715_000000442031_00347_13928_5563.N1	29-OCT-2004 02:27:15	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	13928	No
38	GOM_NL__2PRFIN20041029_023350_000000432031_00347_13928_5564.N1	29-OCT-2004 02:33:50	Straylight	43.000	52	16Bet Cet	2.0370	4500.0	86	13928	No
39	GOM_NL__2PRFIN20041029_024036_000000672031_00347_13928_5565.N1	29-OCT-2004 02:40:36	Bright	66.500	94	92Alp Cet	2.5260	3100.0	133	13928	No
40	GOM_NL__2PRFIN20041029_024319_000000382031_00347_13928_5566.N1	29-OCT-2004 02:43:19	Bright	38.000	140	88Gam Peg	2.8340	26000.	76	13928	No
41	GOM_NL__2PRFIN20041029_024452_000000432031_00347_13928_5567.N1	29-OCT-2004 02:44:52	Bright	43.000	105	6Bet Ari	2.6450	8900.0	86	13928	No
42	GOM_NL__2PRFIN20041029_024710_000000392031_00347_13928_5568.N1	29-OCT-2004 02:47:10	Bright	39.000	58	21Alp And	2.0730	11000.	78	13928	No

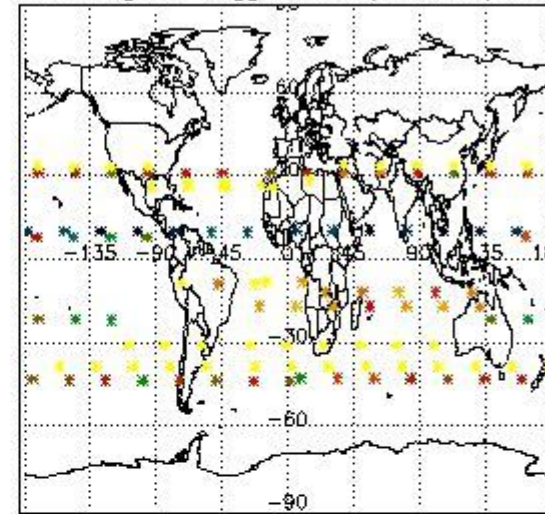


3.2 Plot quality information per product (world map)

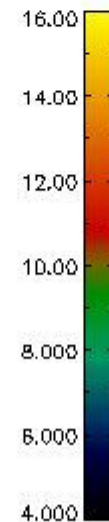
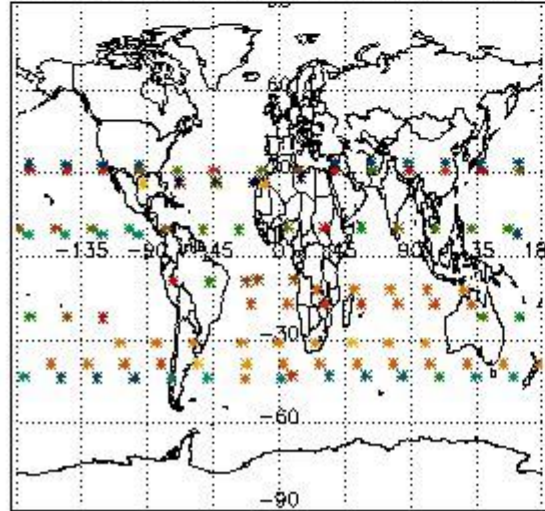
Percentage of flagged data per O3 profile



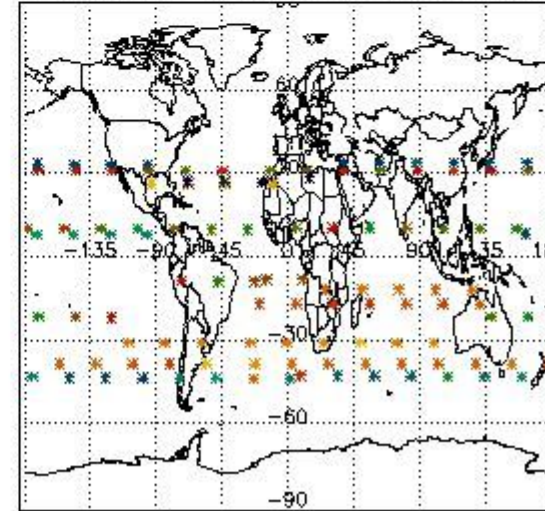
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

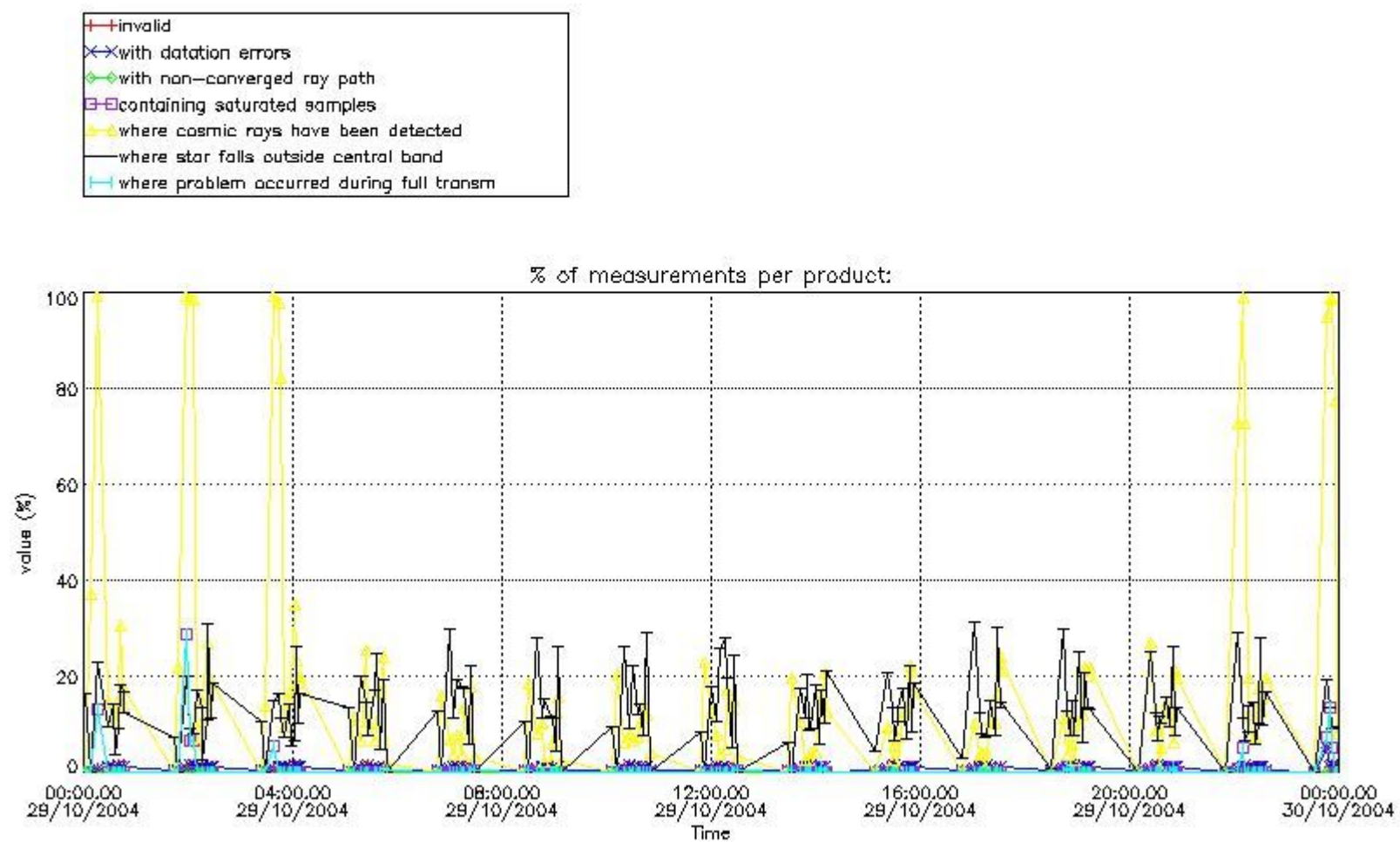


4. Level 1 quality information per product

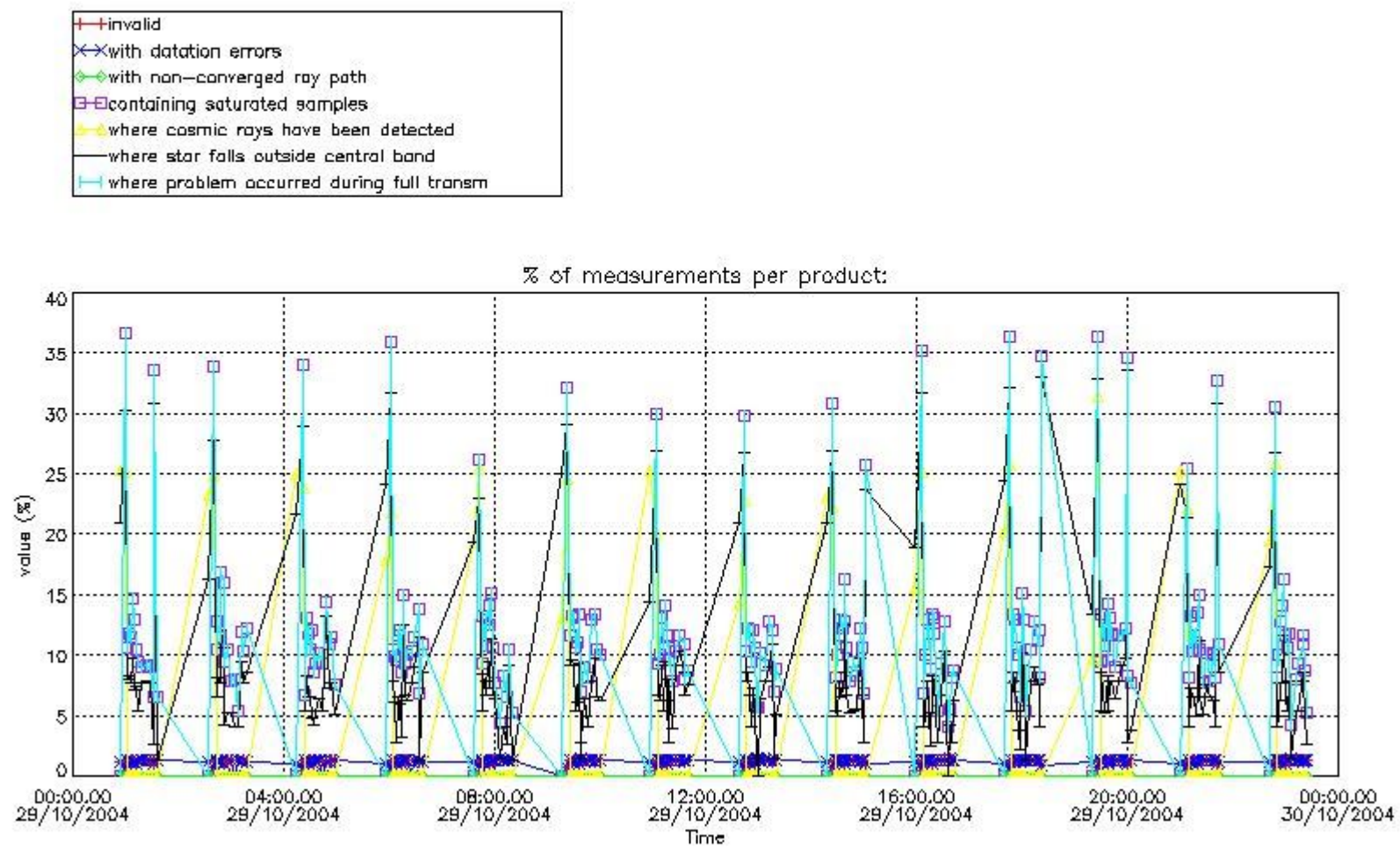
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



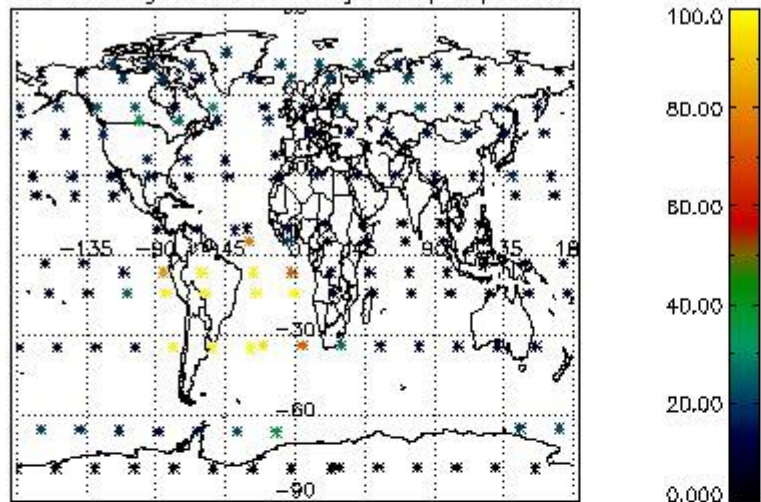
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



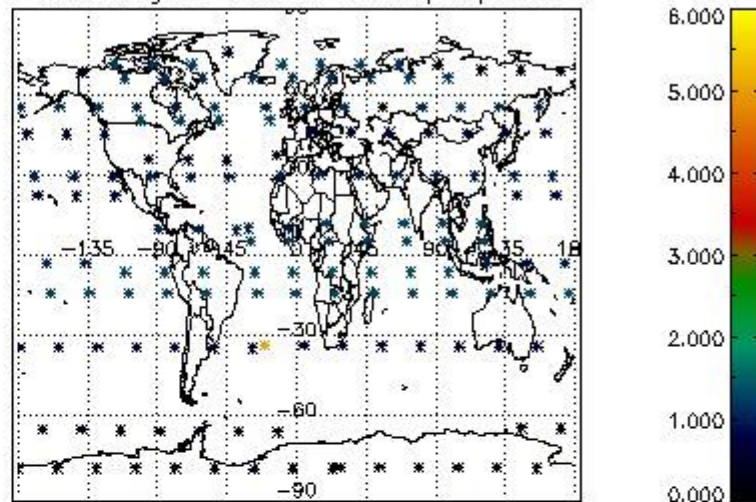
4.2 Plot quality information per product coming from level 1b processing (world map)

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

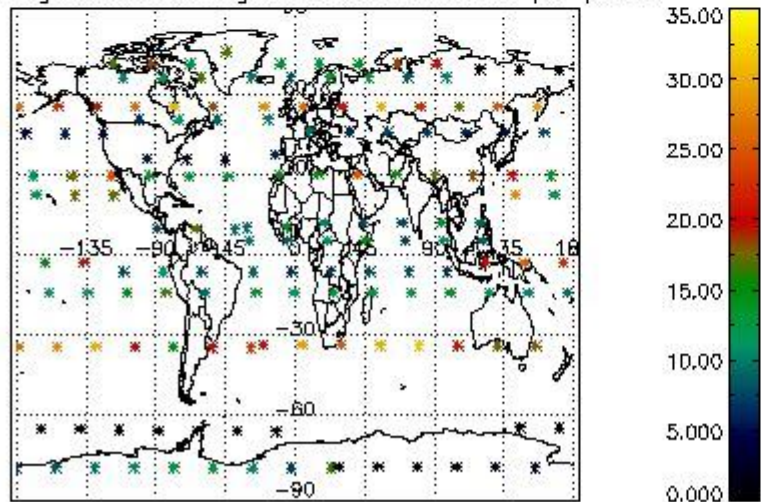
Percentage of cosmic ray hits per profile



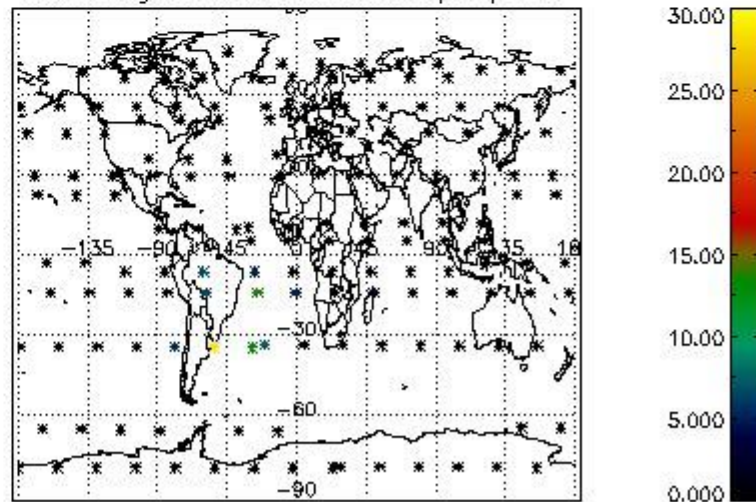
Percentage of datation errors per profile



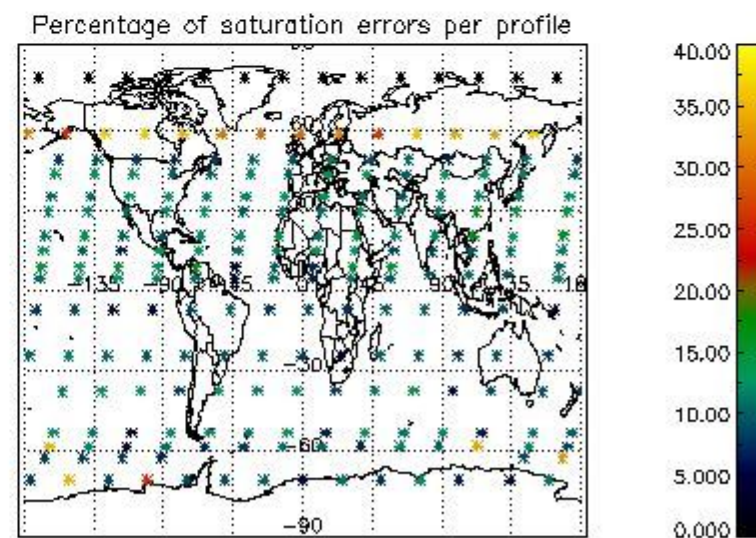
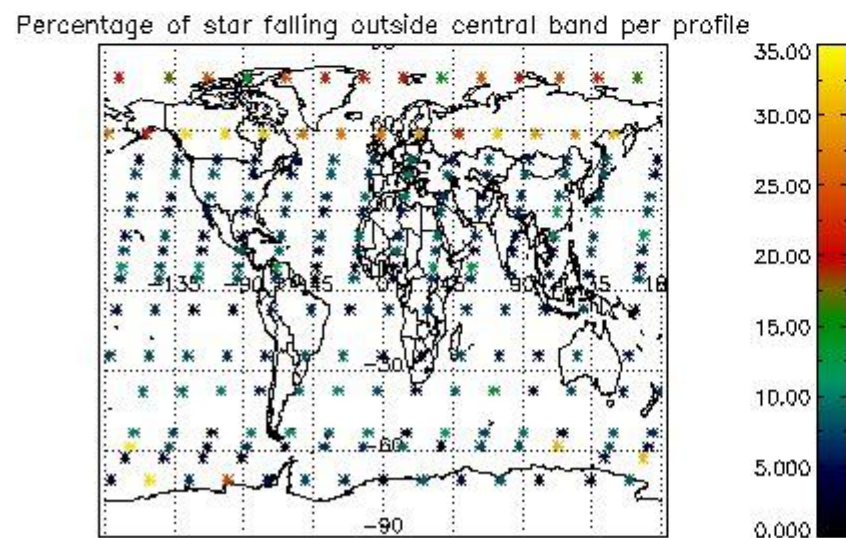
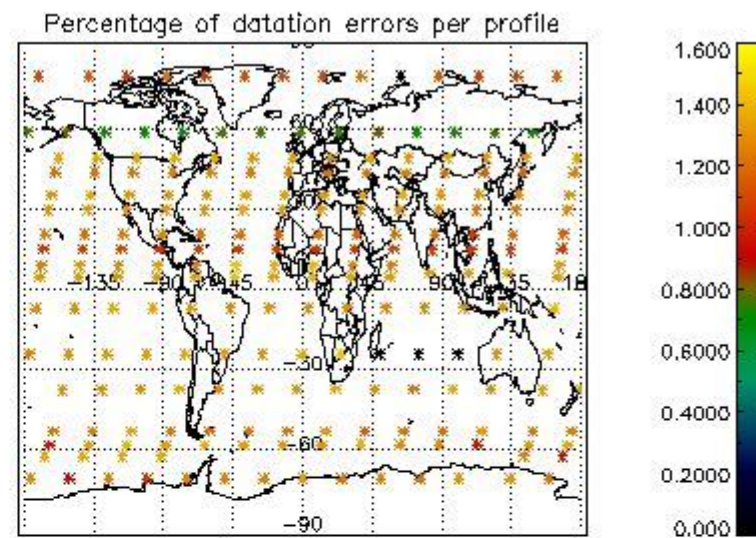
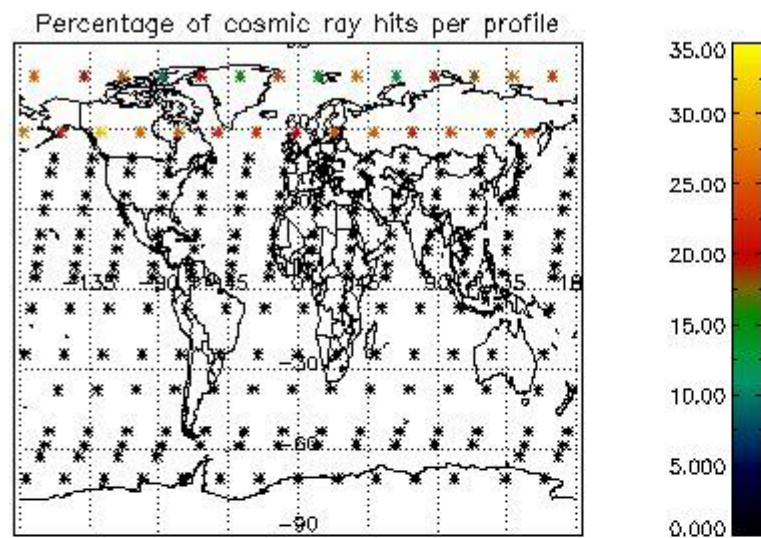
Percentage of star falling outside central band per profile



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

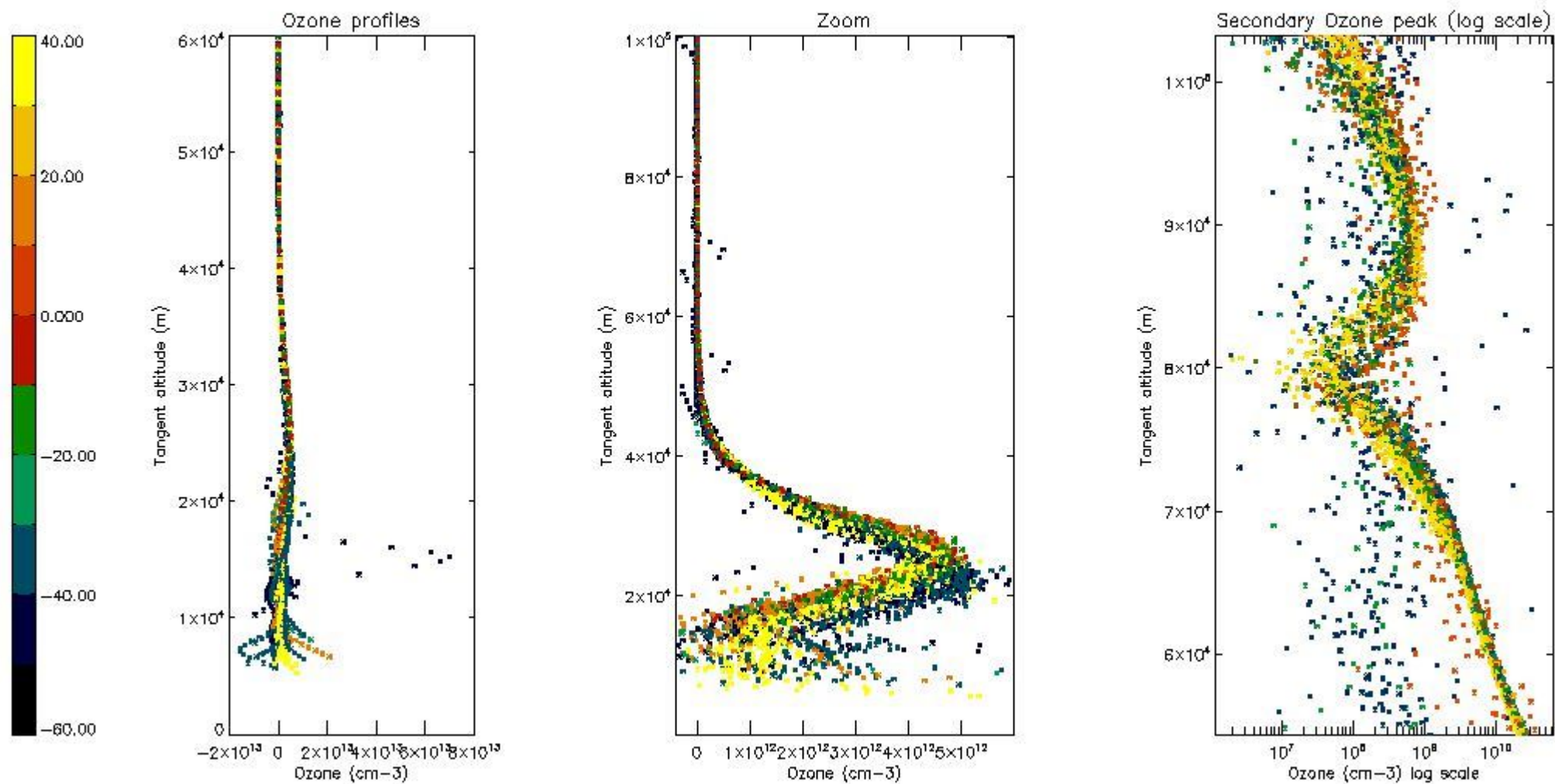
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	15

STD < 10	13
STD < 5	9

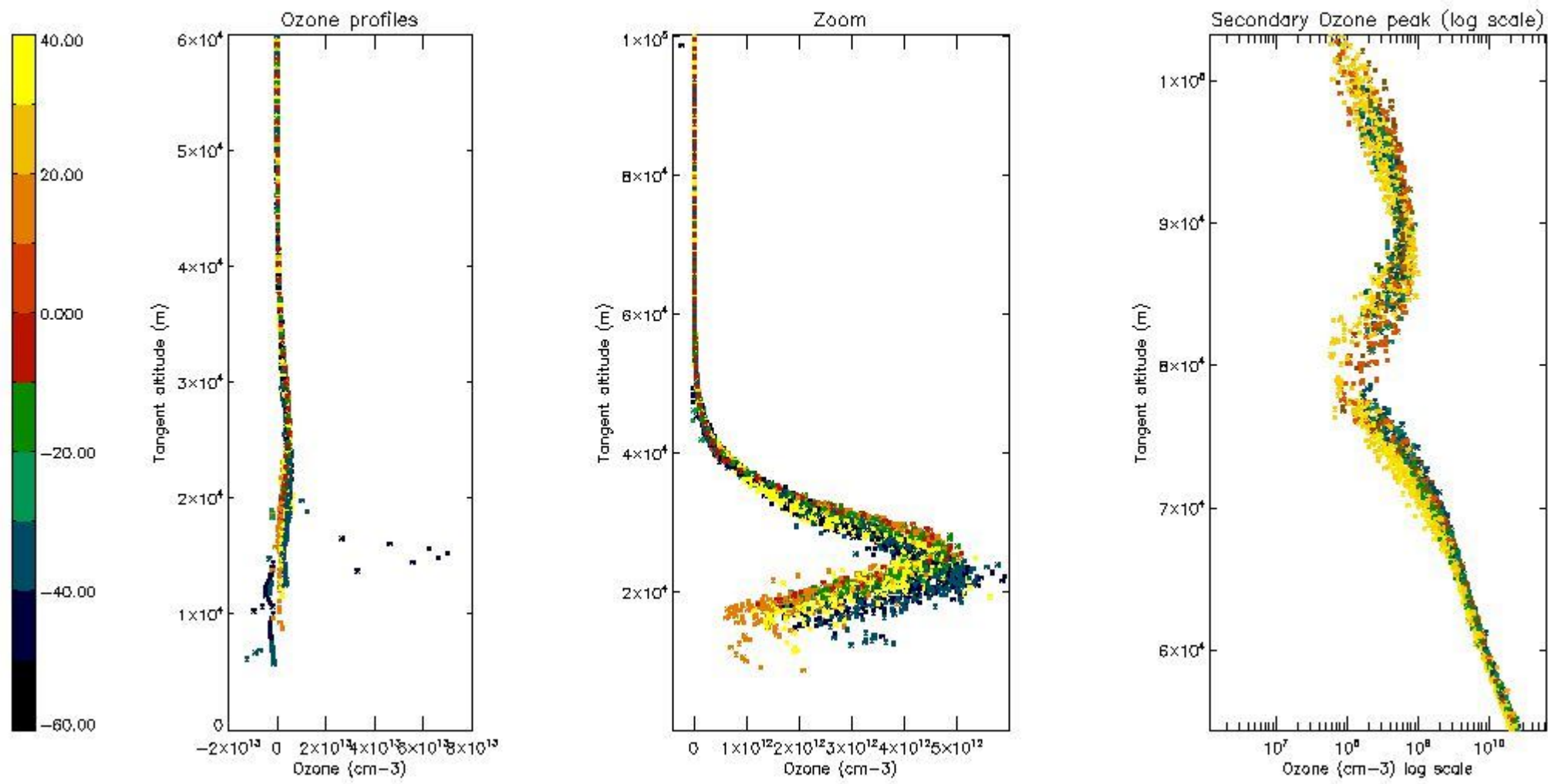
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



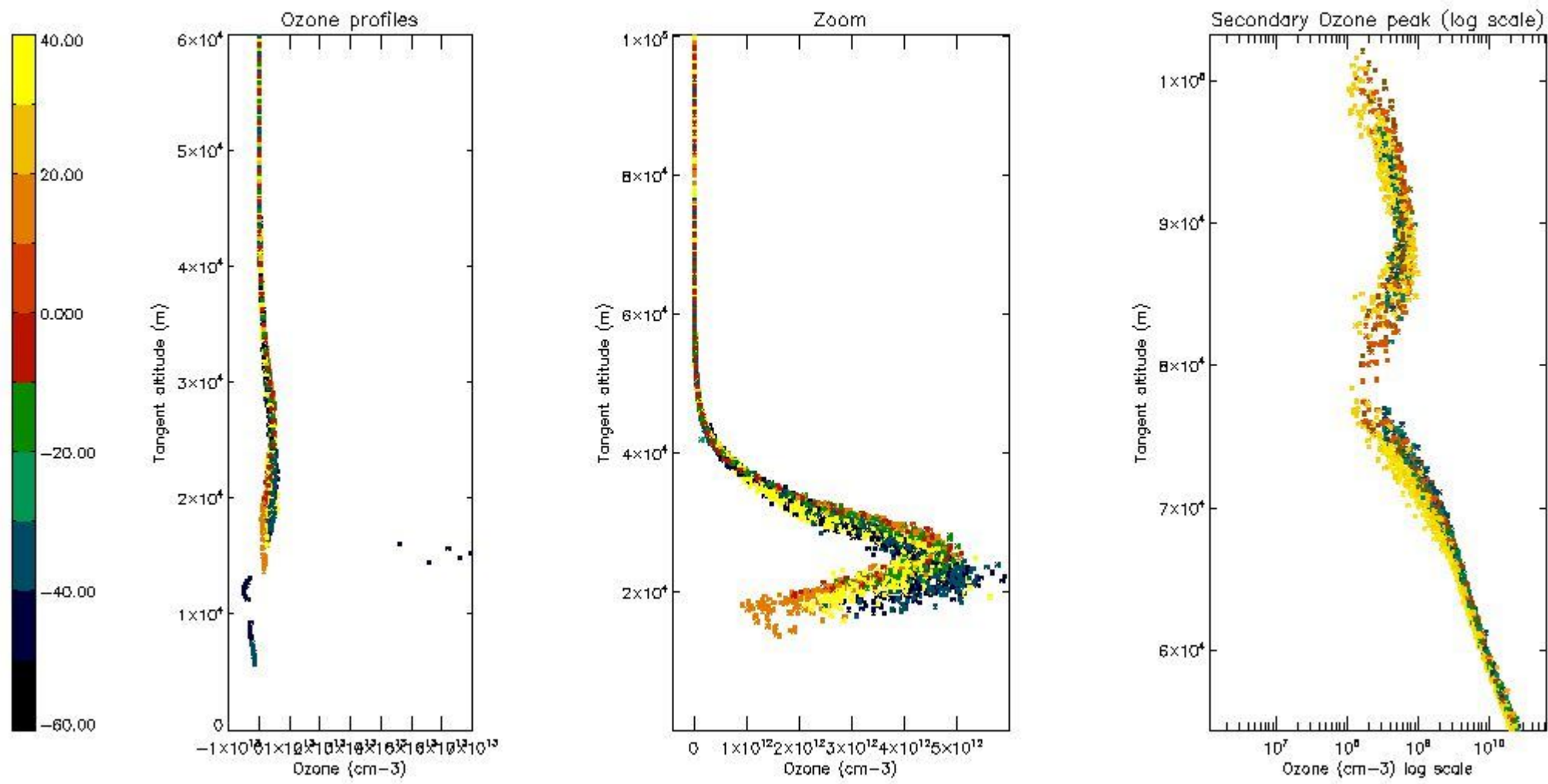
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



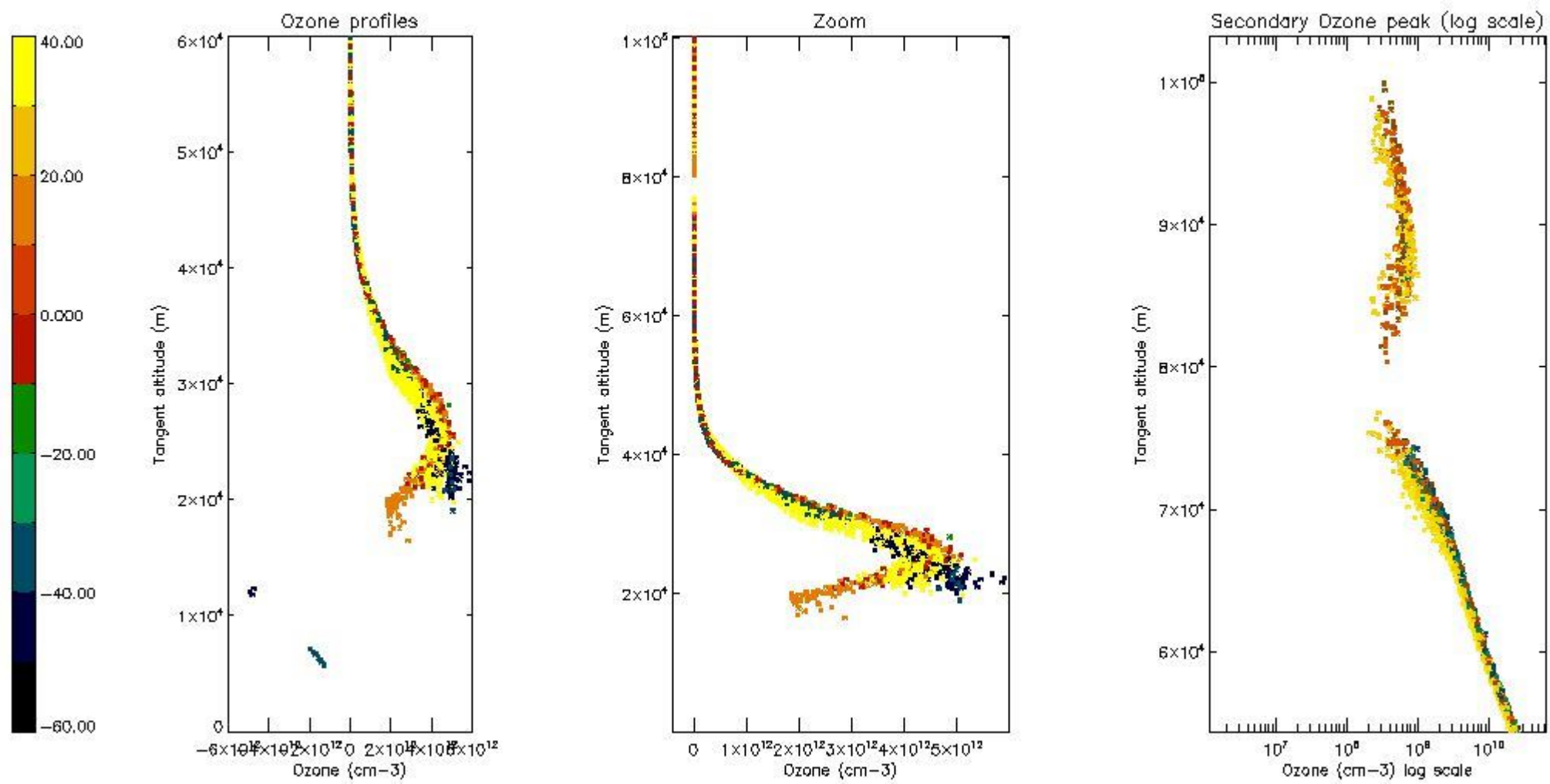
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



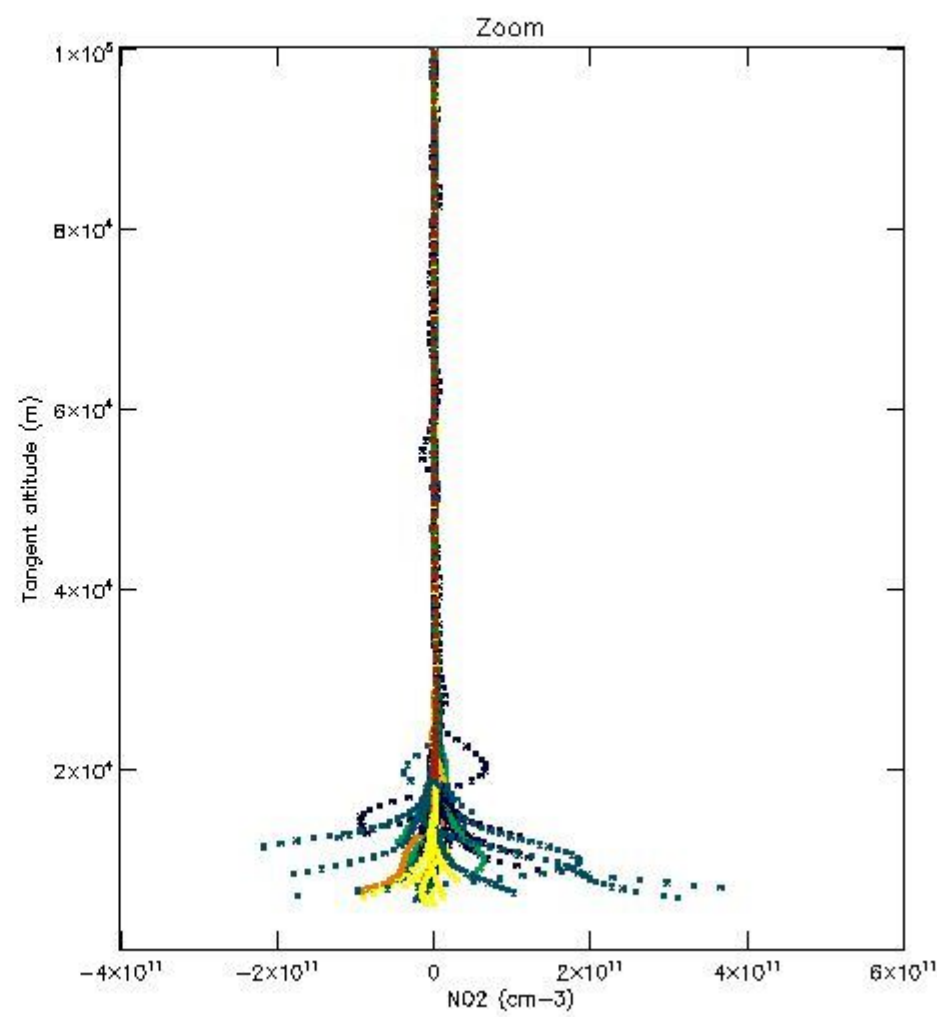
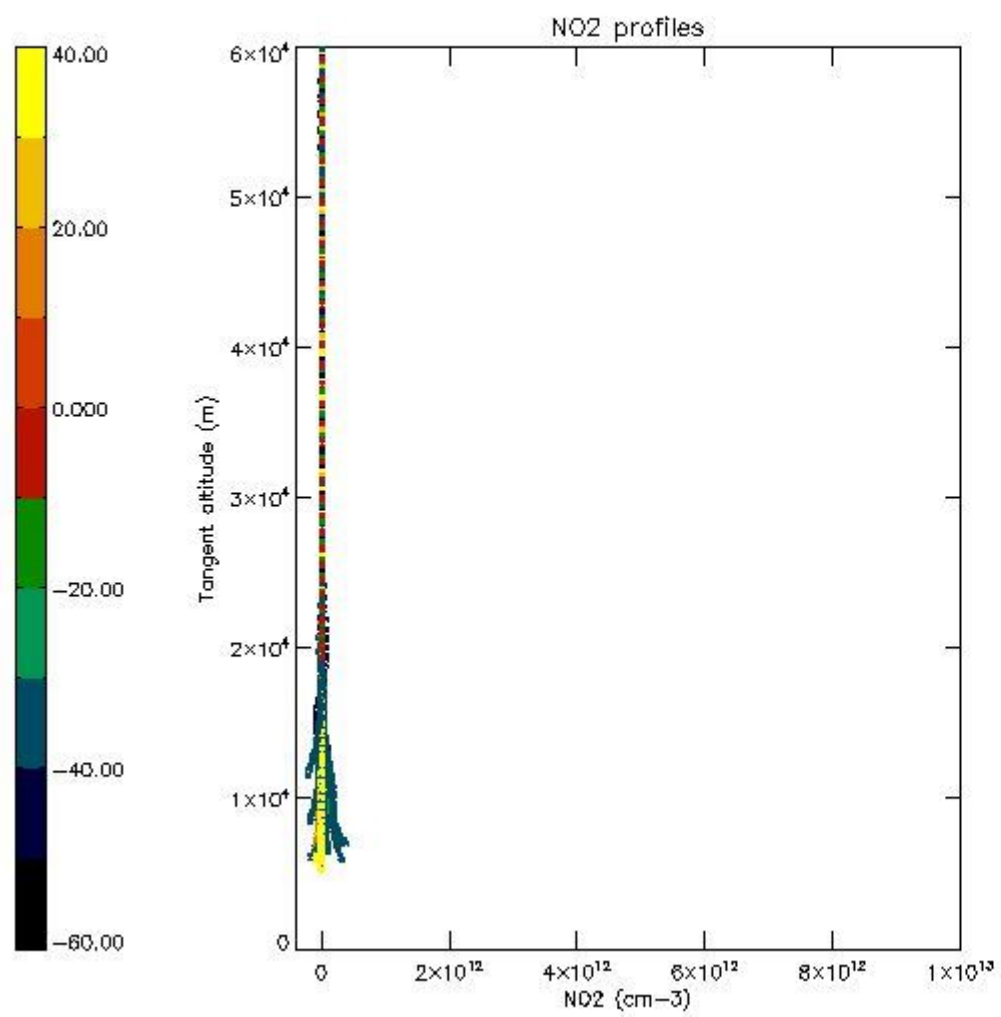
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



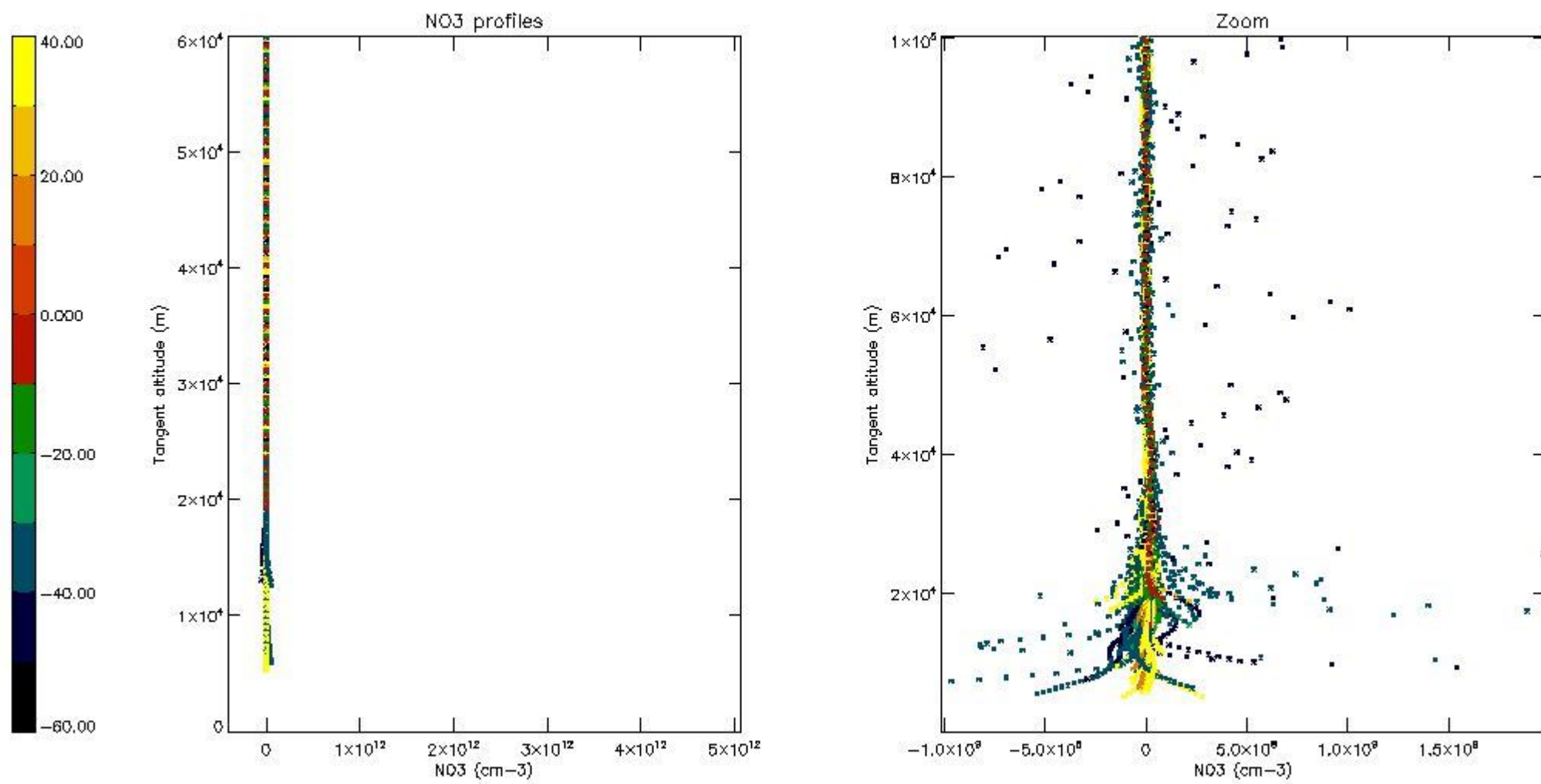
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



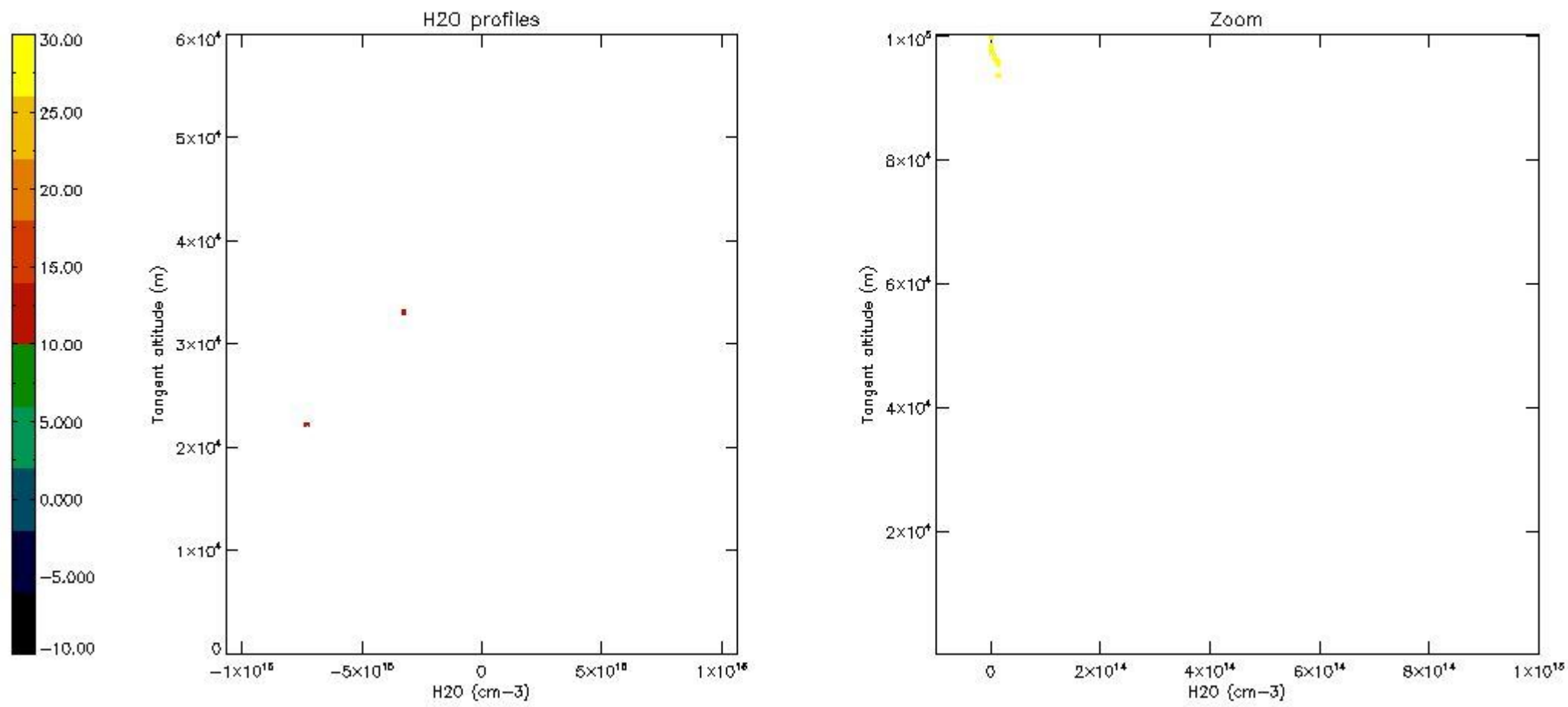
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

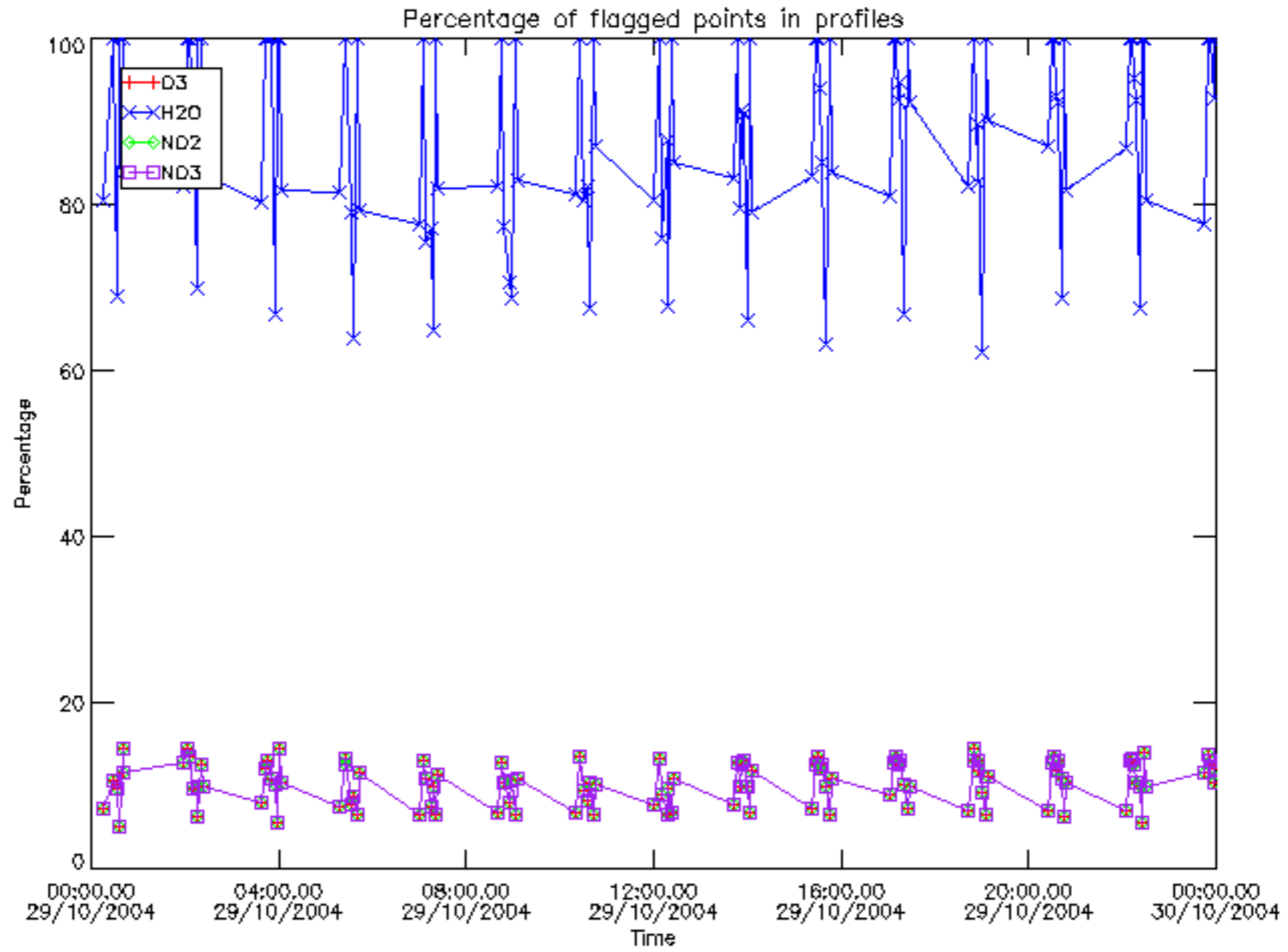
The colorbar represents the latitude.



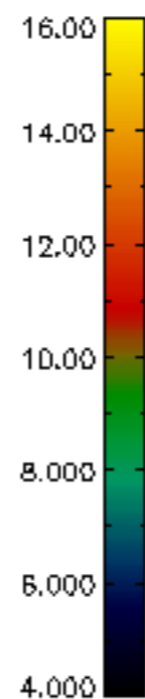
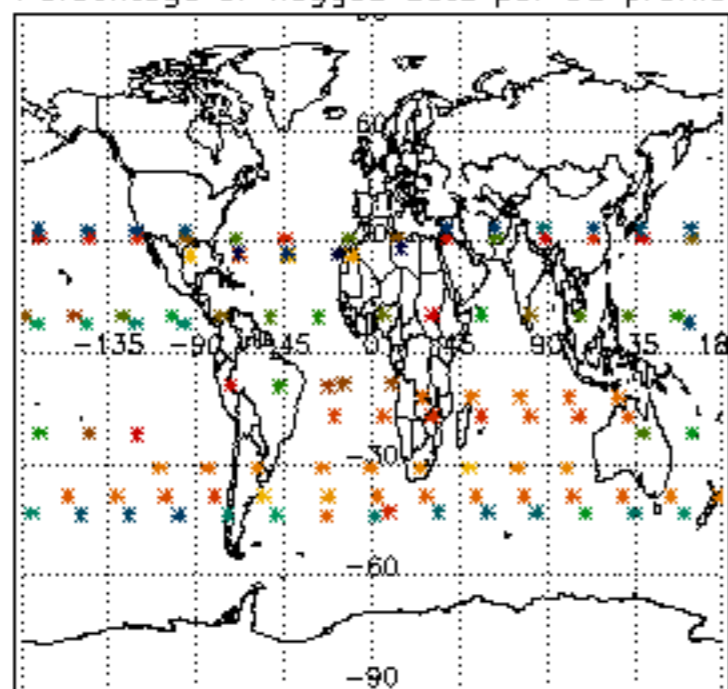
6. Auxiliary Data Files used for the production reported in section 2

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.

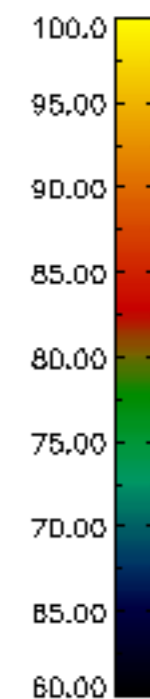
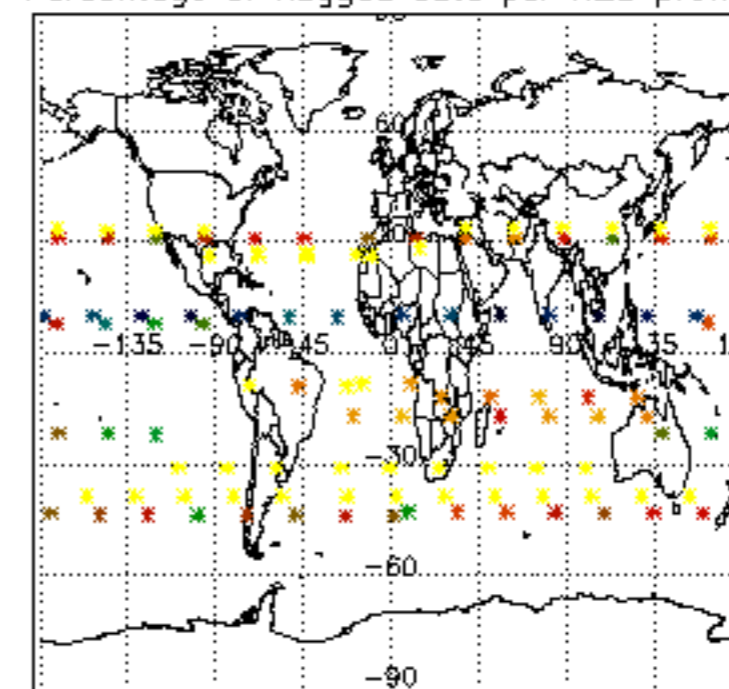
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	29-OCT-2004 00:02:51
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	29-OCT-2004 00:02:51
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	29-OCT-2004 00:02:51



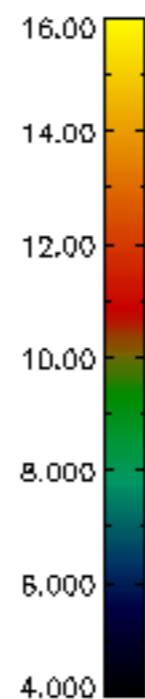
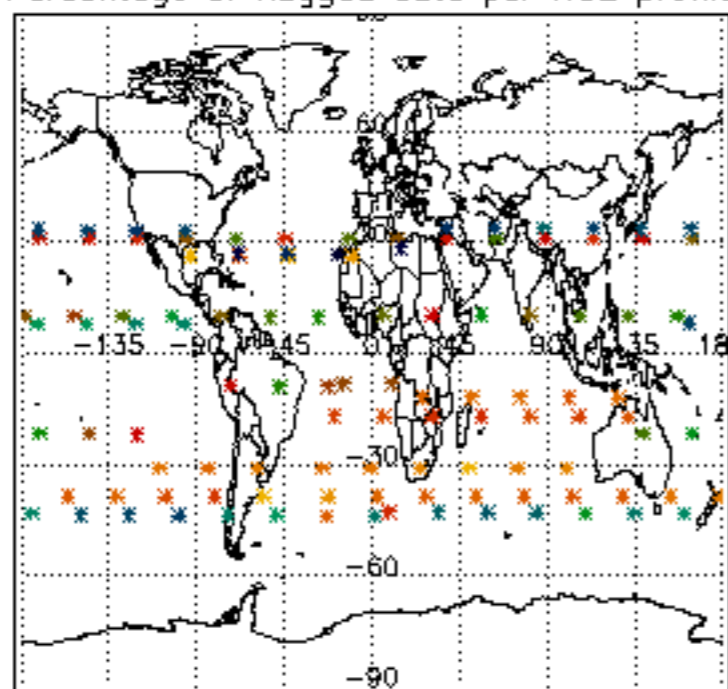
Percentage of flagged data per D3 profile



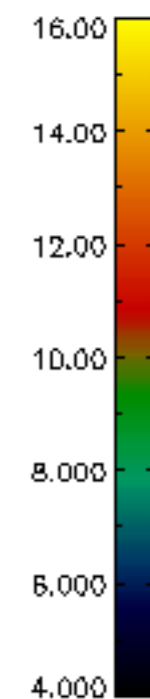
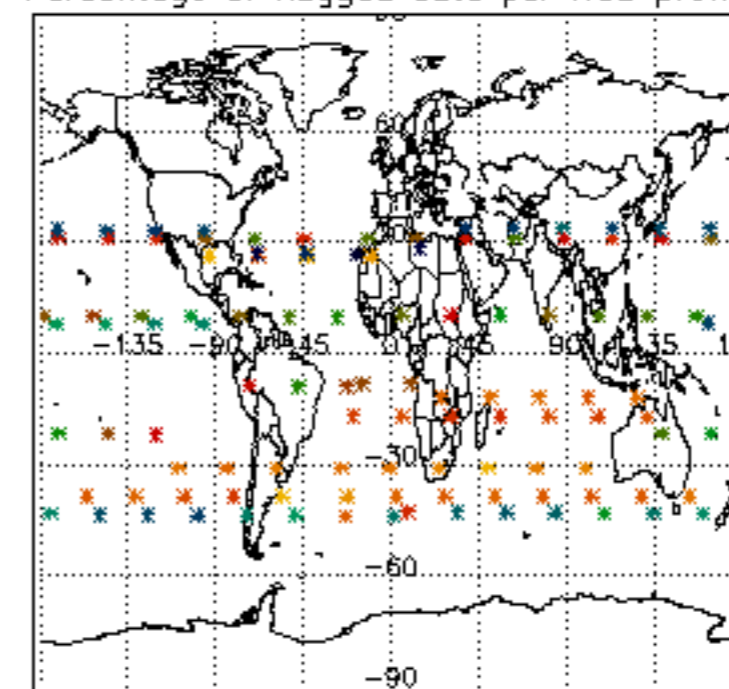
Percentage of flagged data per H2O profile

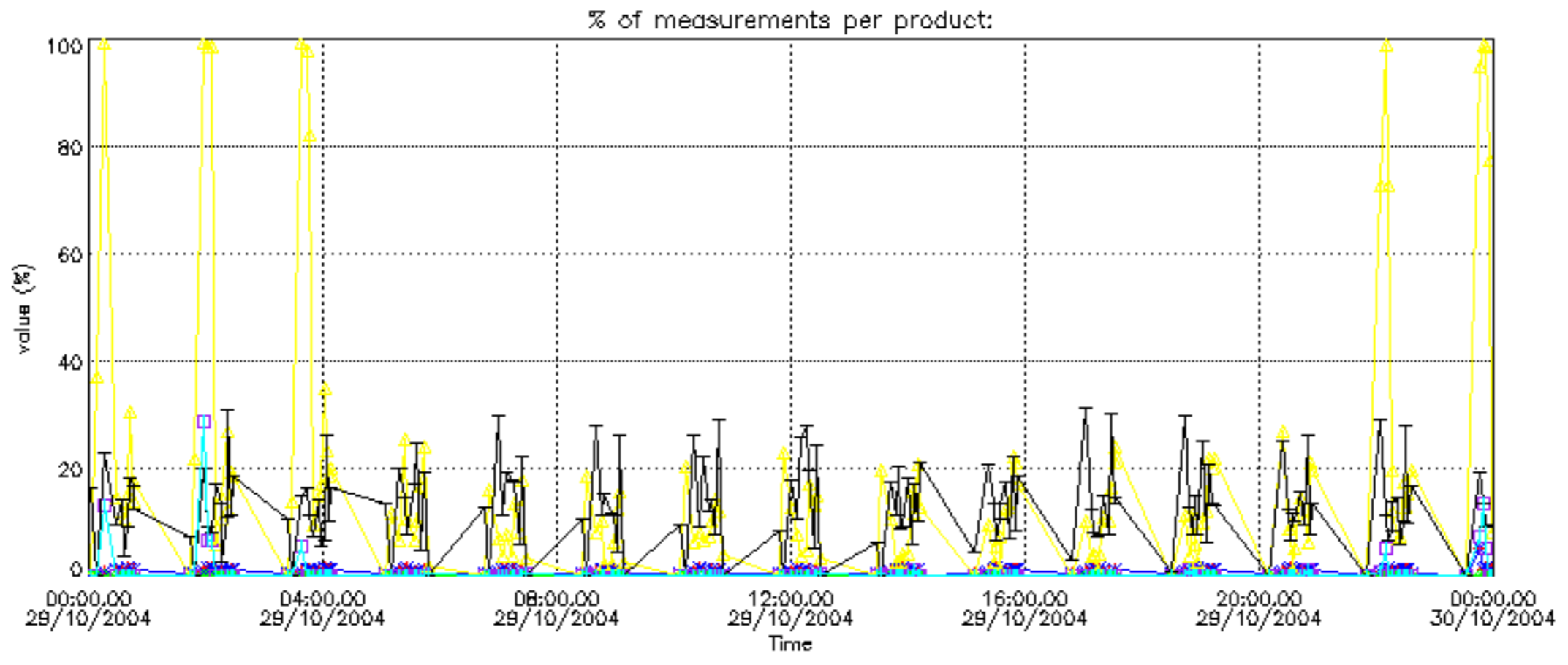


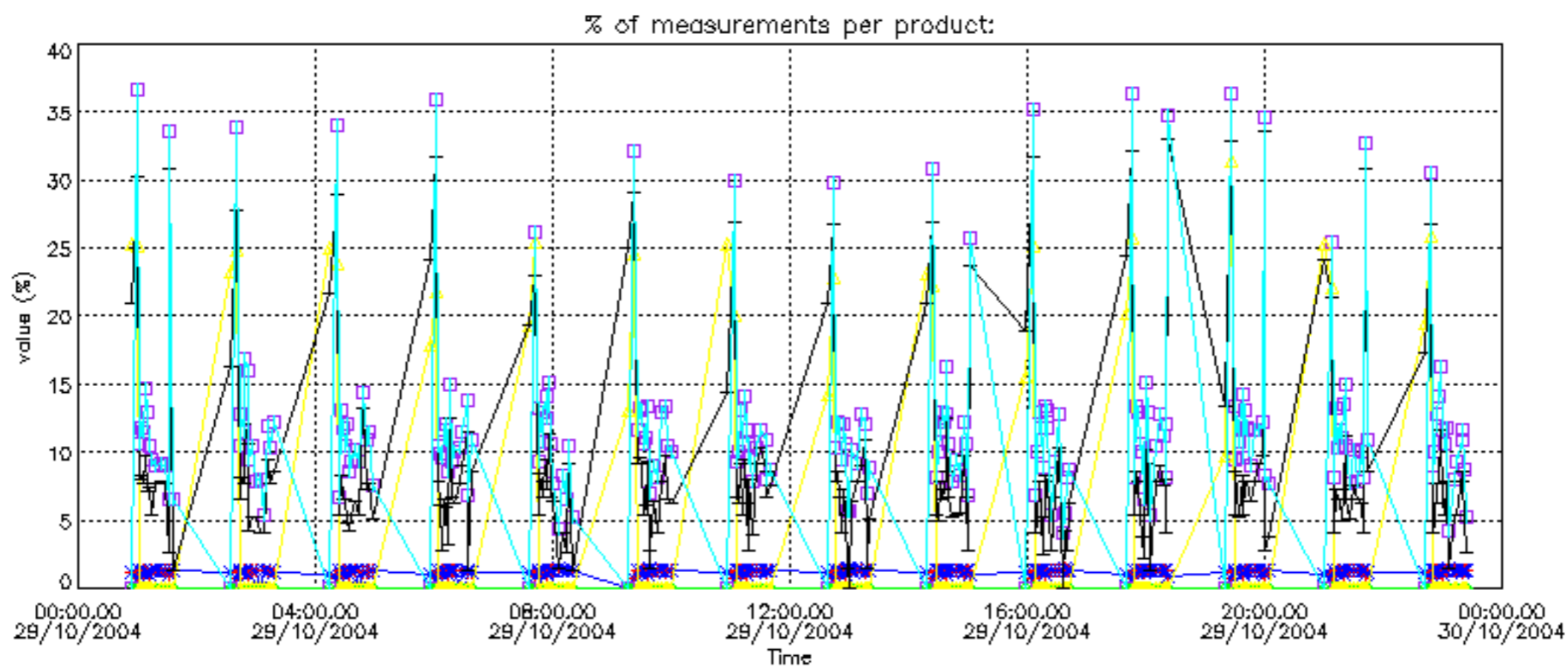
Percentage of flagged data per NO2 profile



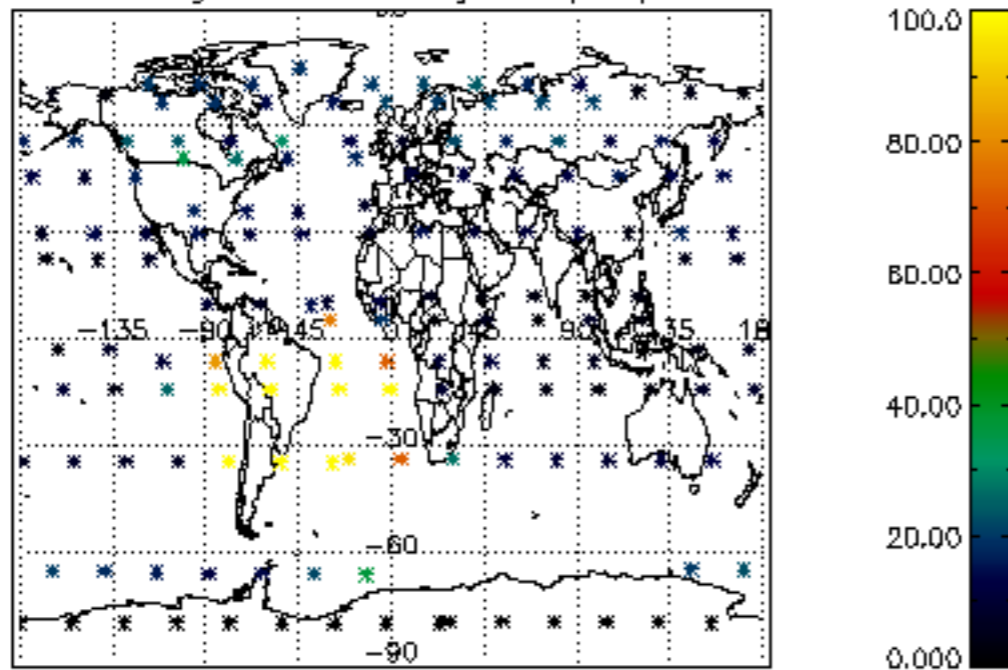
Percentage of flagged data per NO3 profile



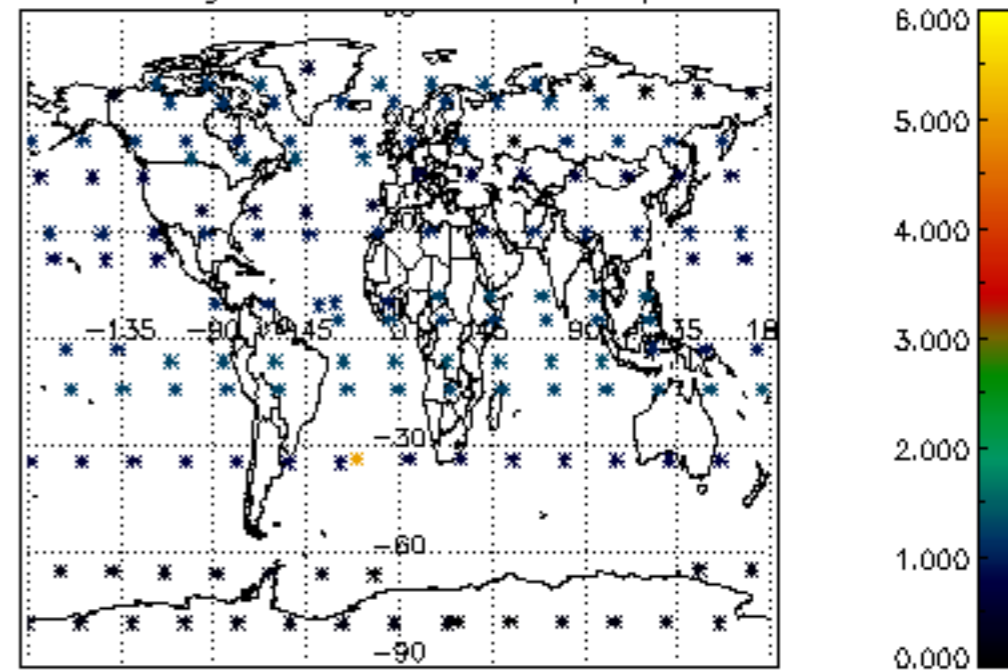




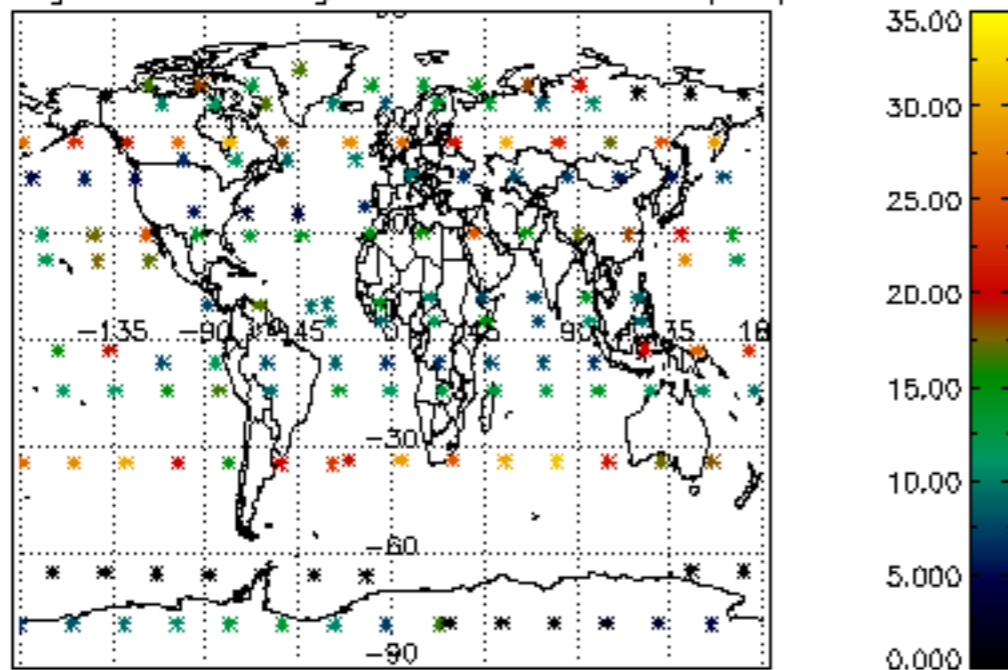
Percentage of cosmic ray hits per profile



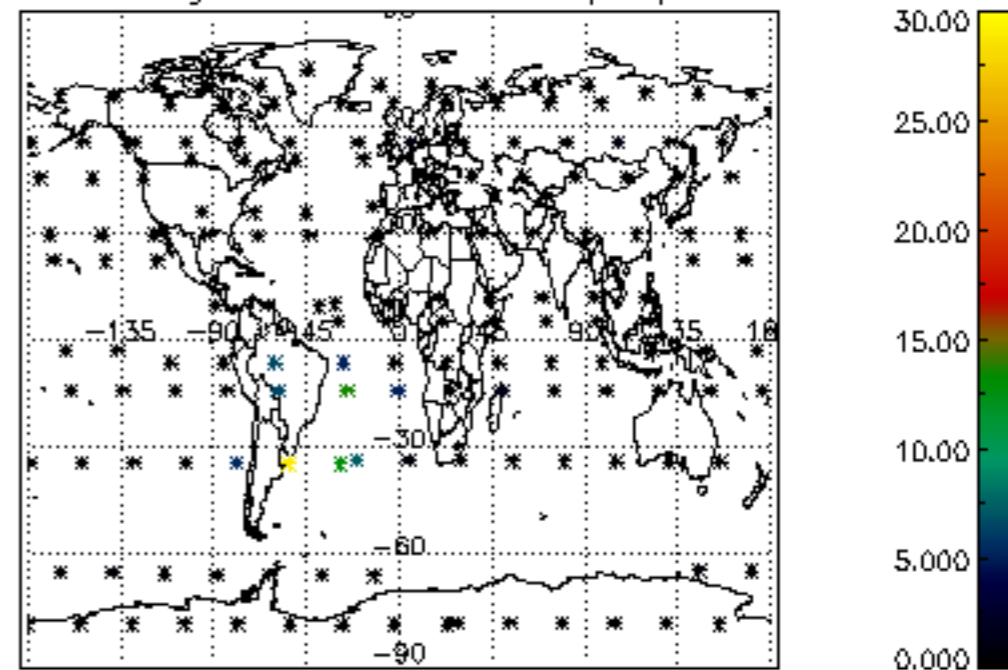
Percentage of datation errors per profile



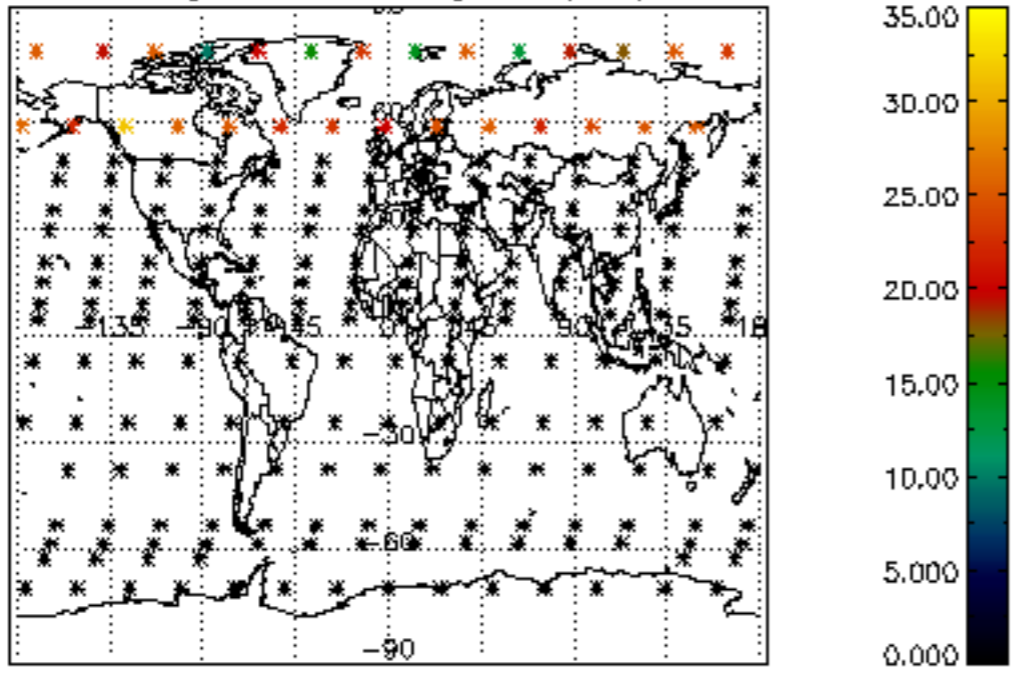
Percentage of star falling outside central band per profile



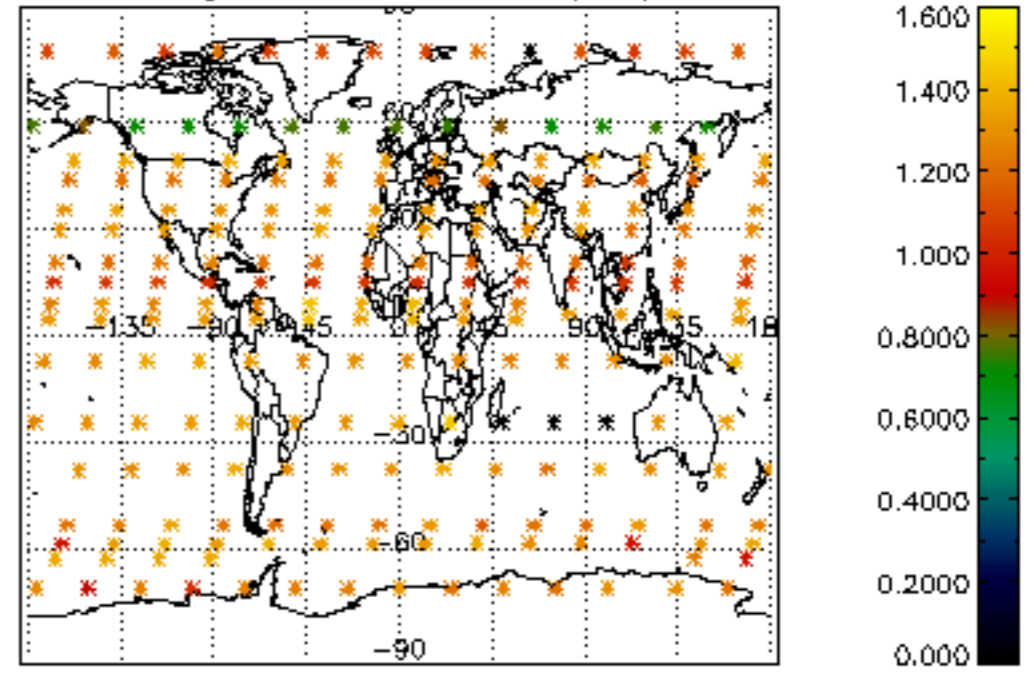
Percentage of saturation errors per profile



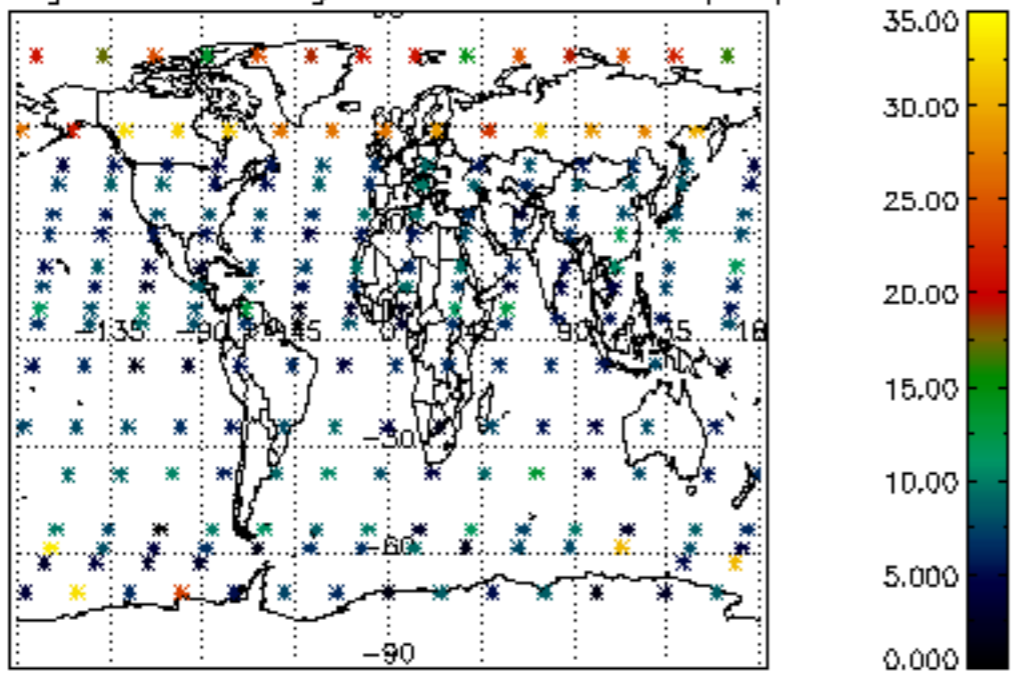
Percentage of cosmic ray hits per profile



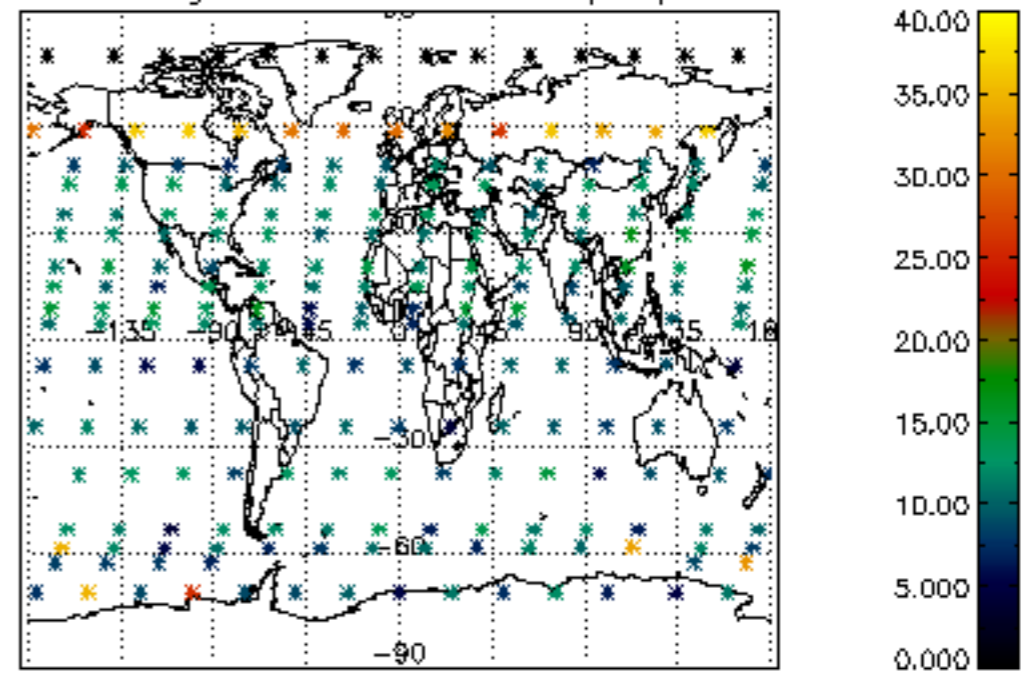
Percentage of datation errors per profile

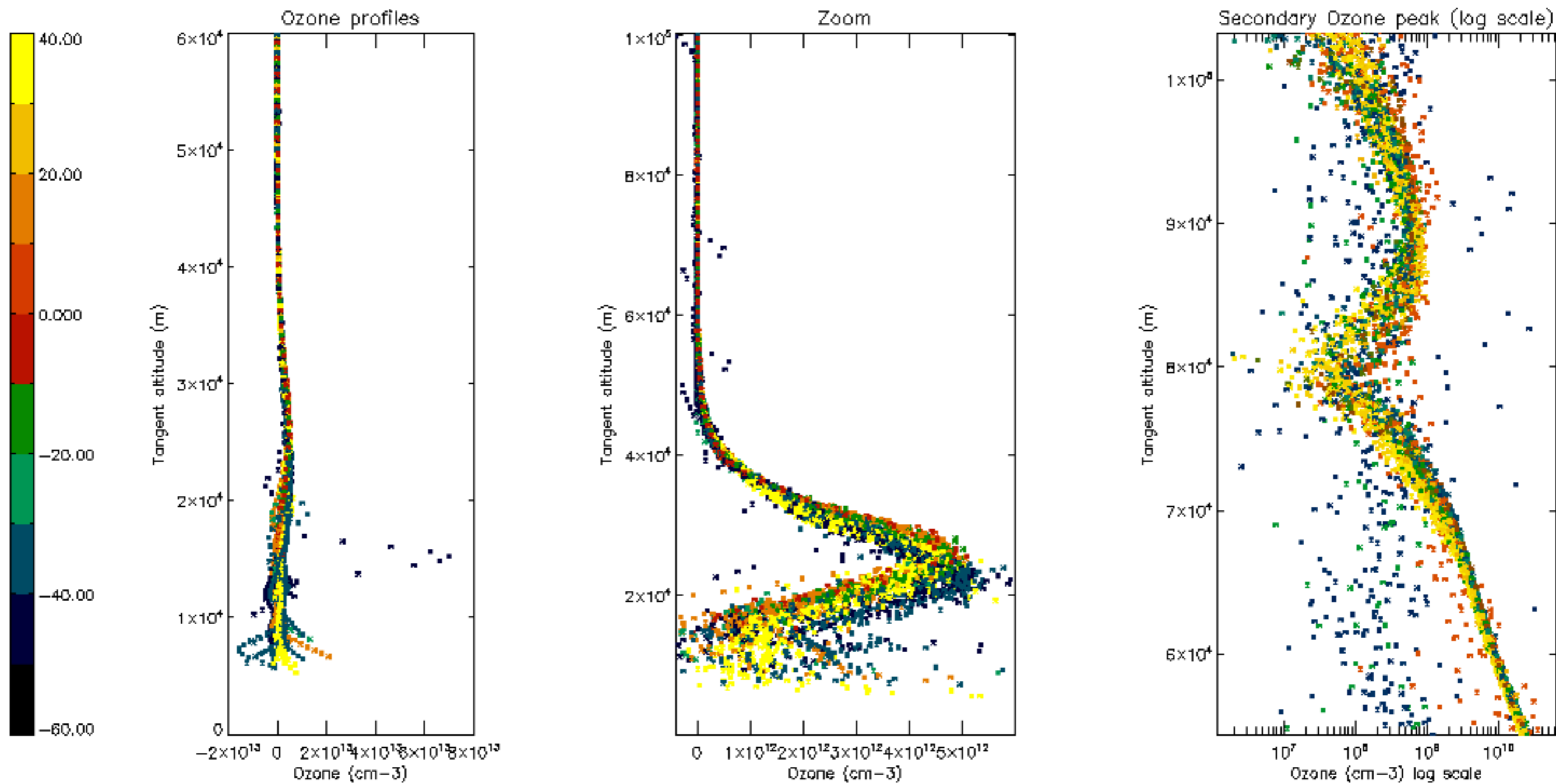


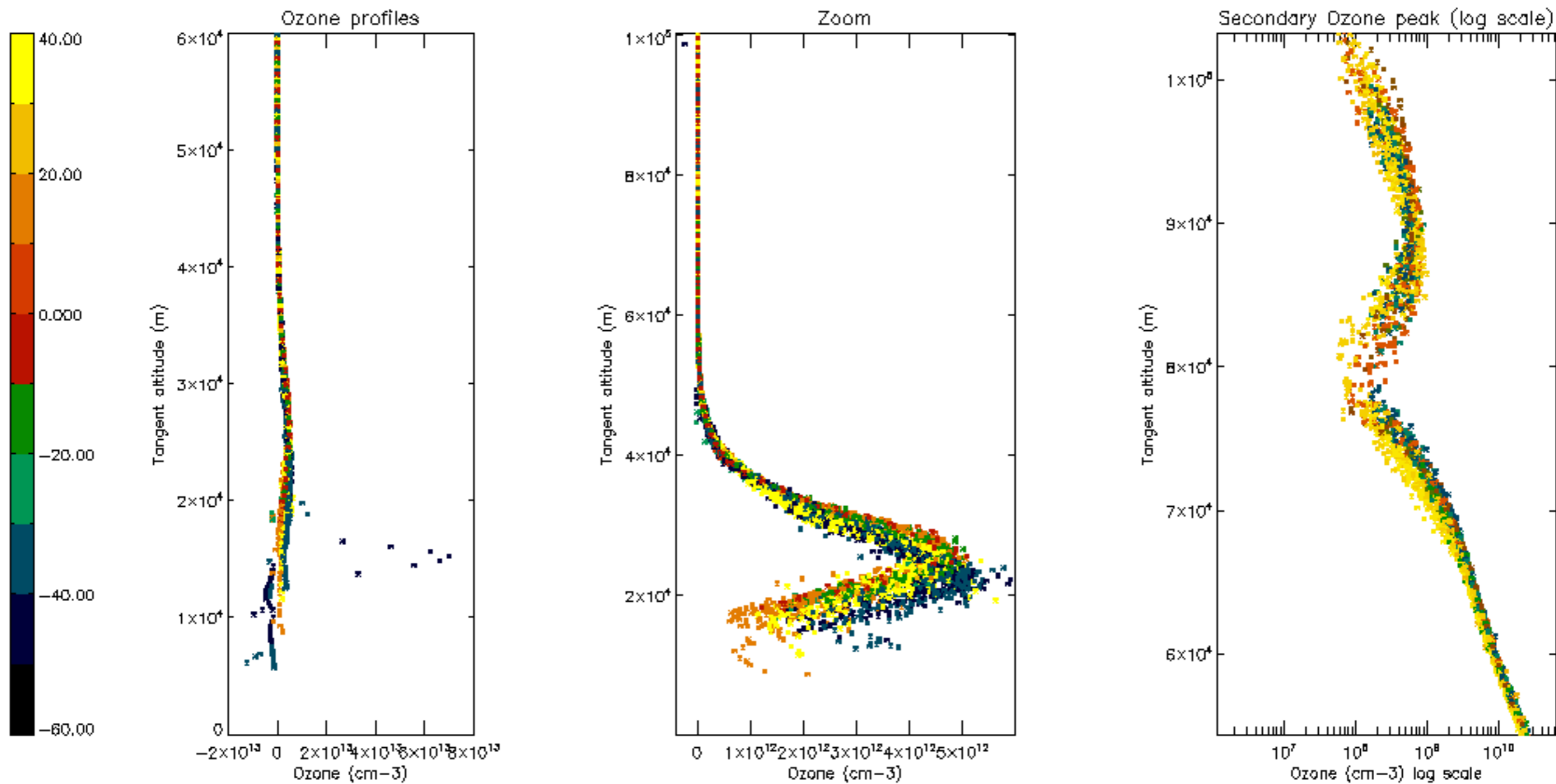
Percentage of star falling outside central band per profile

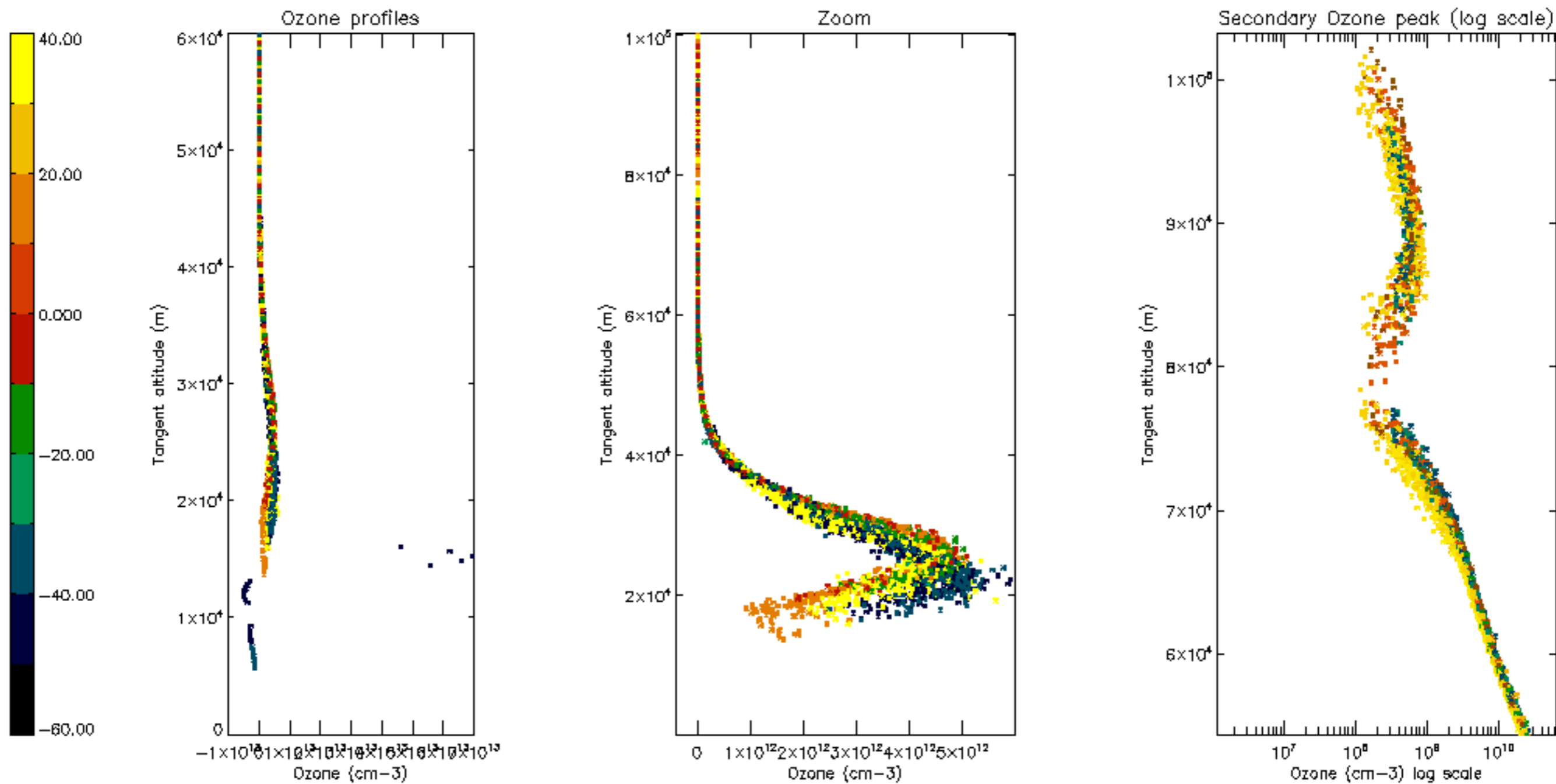


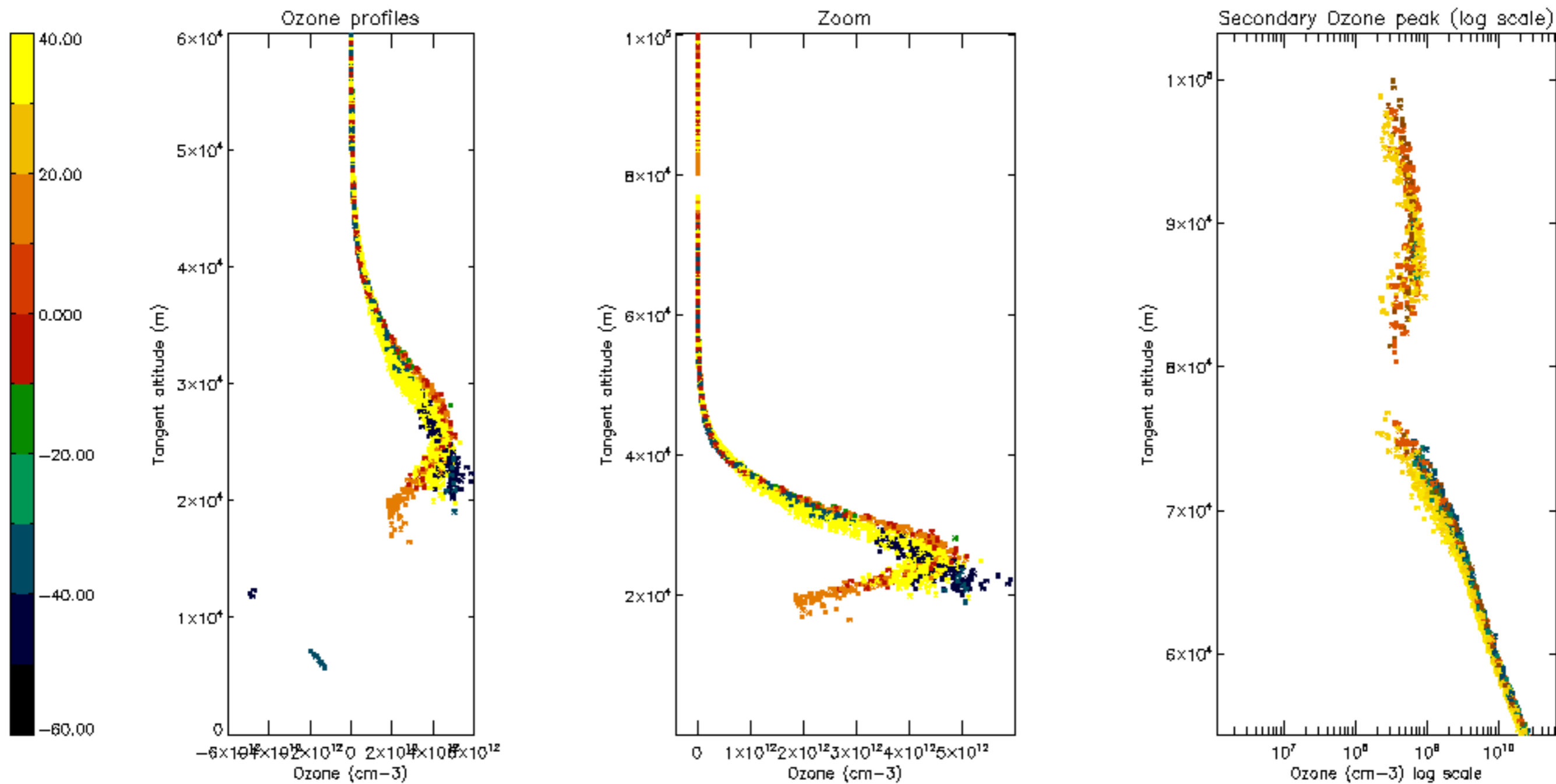
Percentage of saturation errors per profile

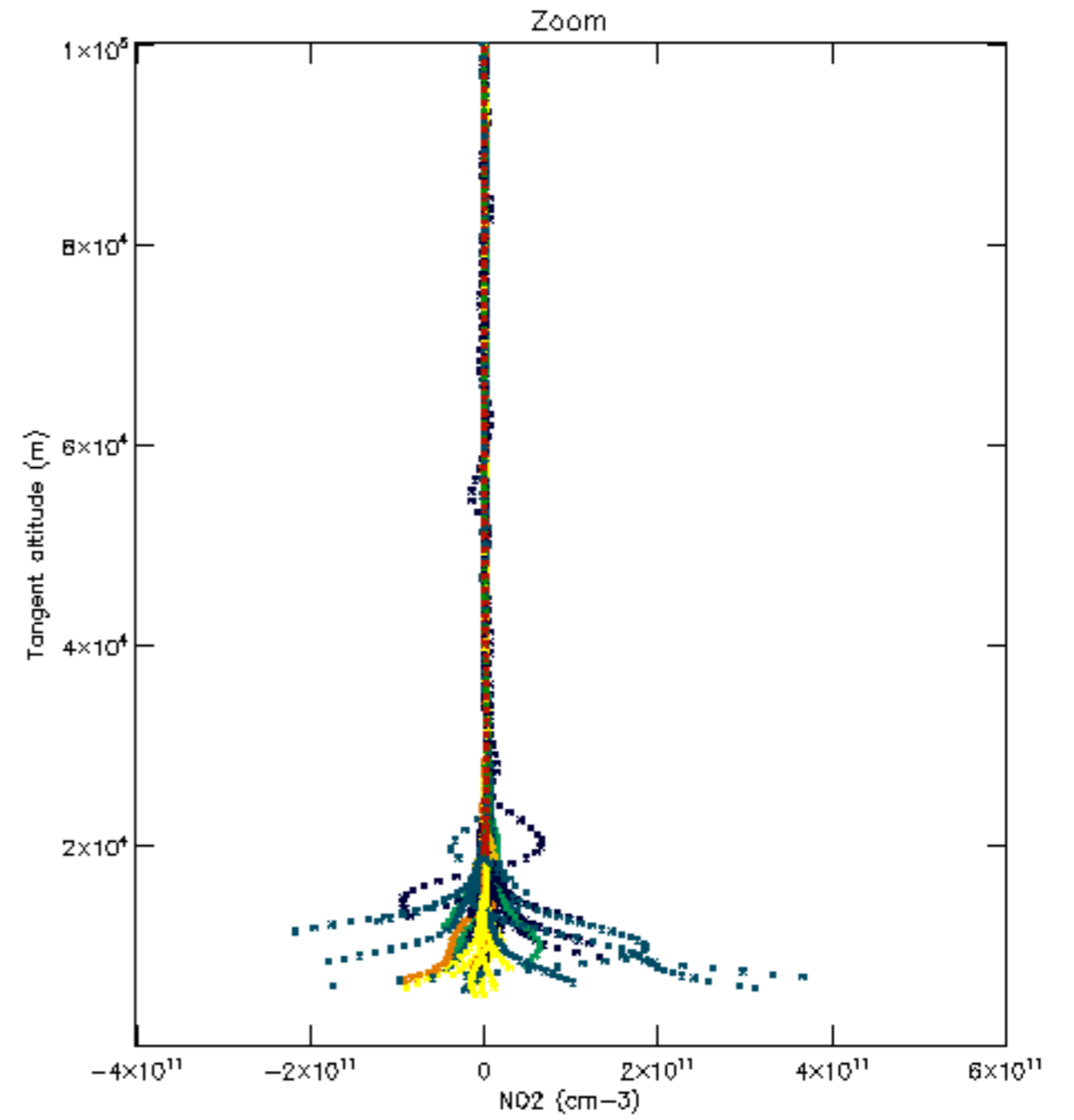
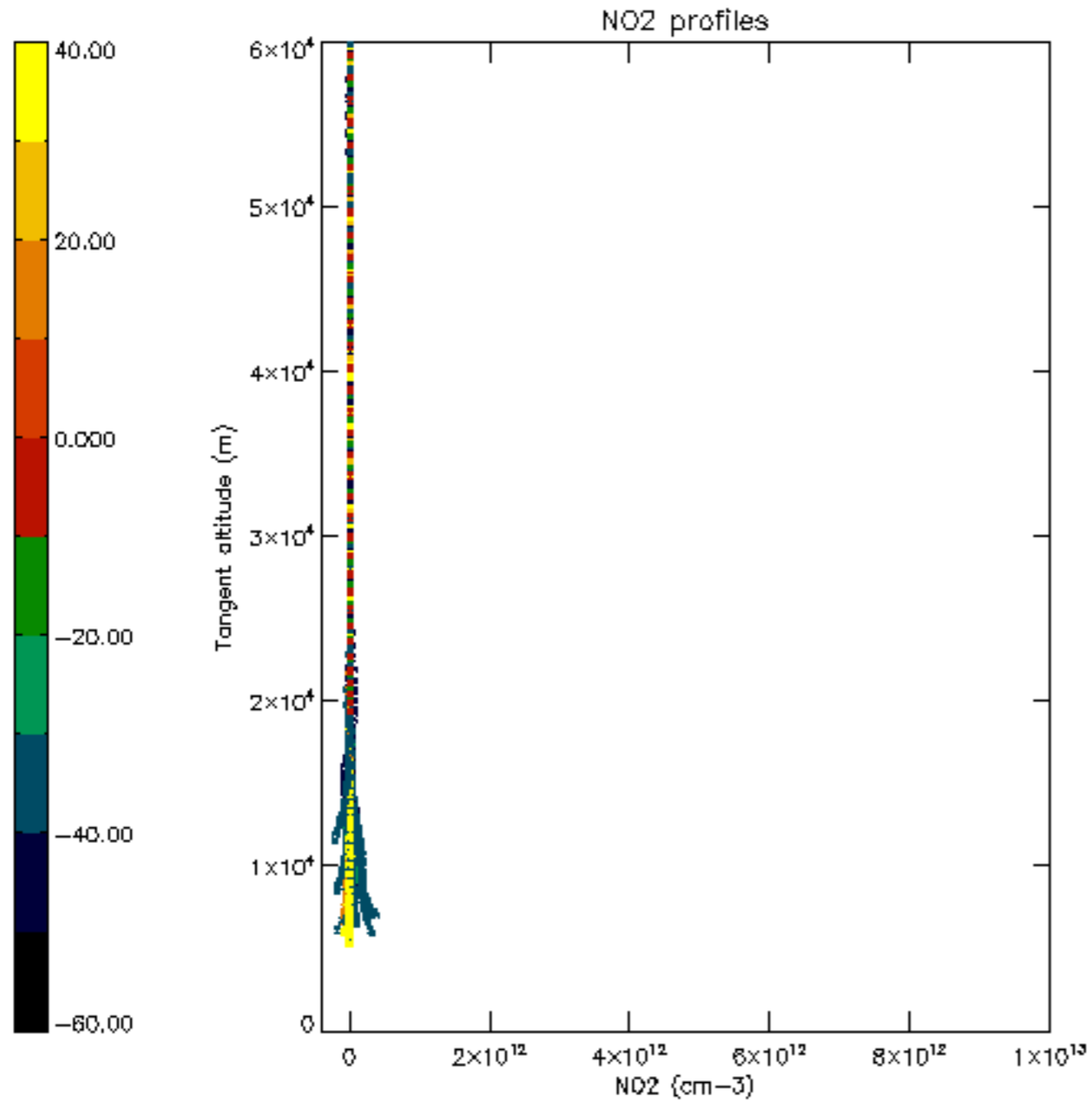


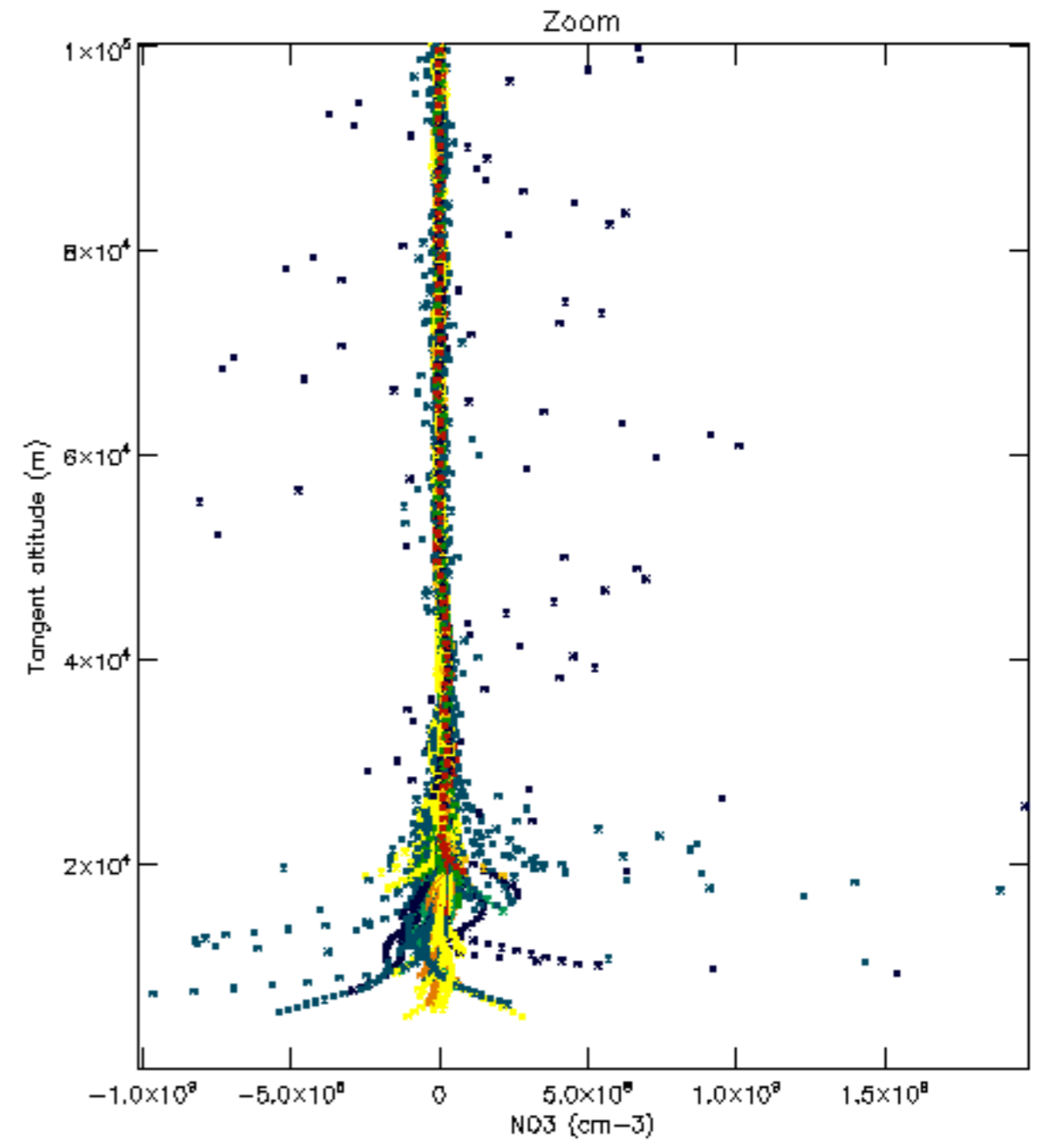
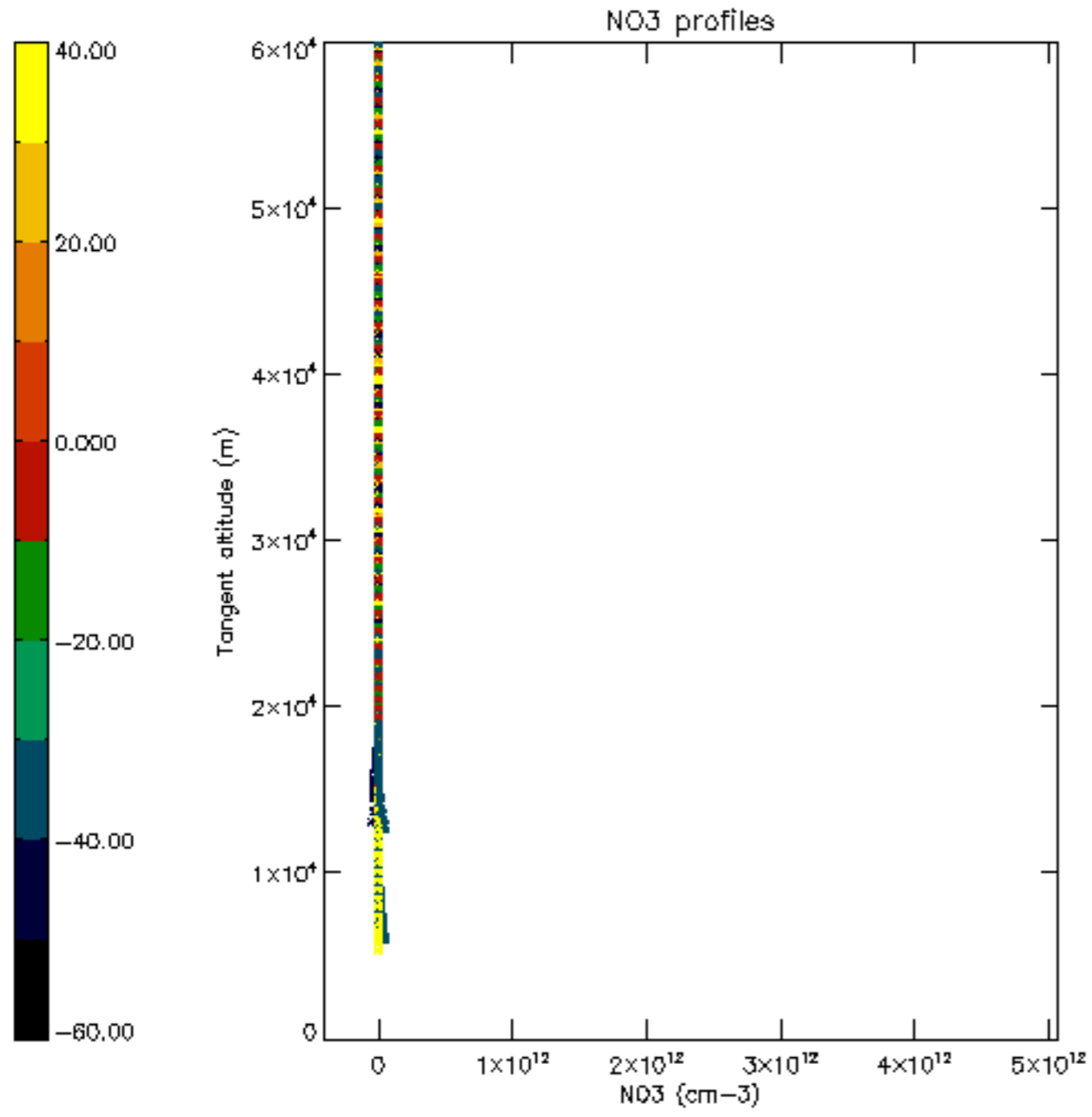


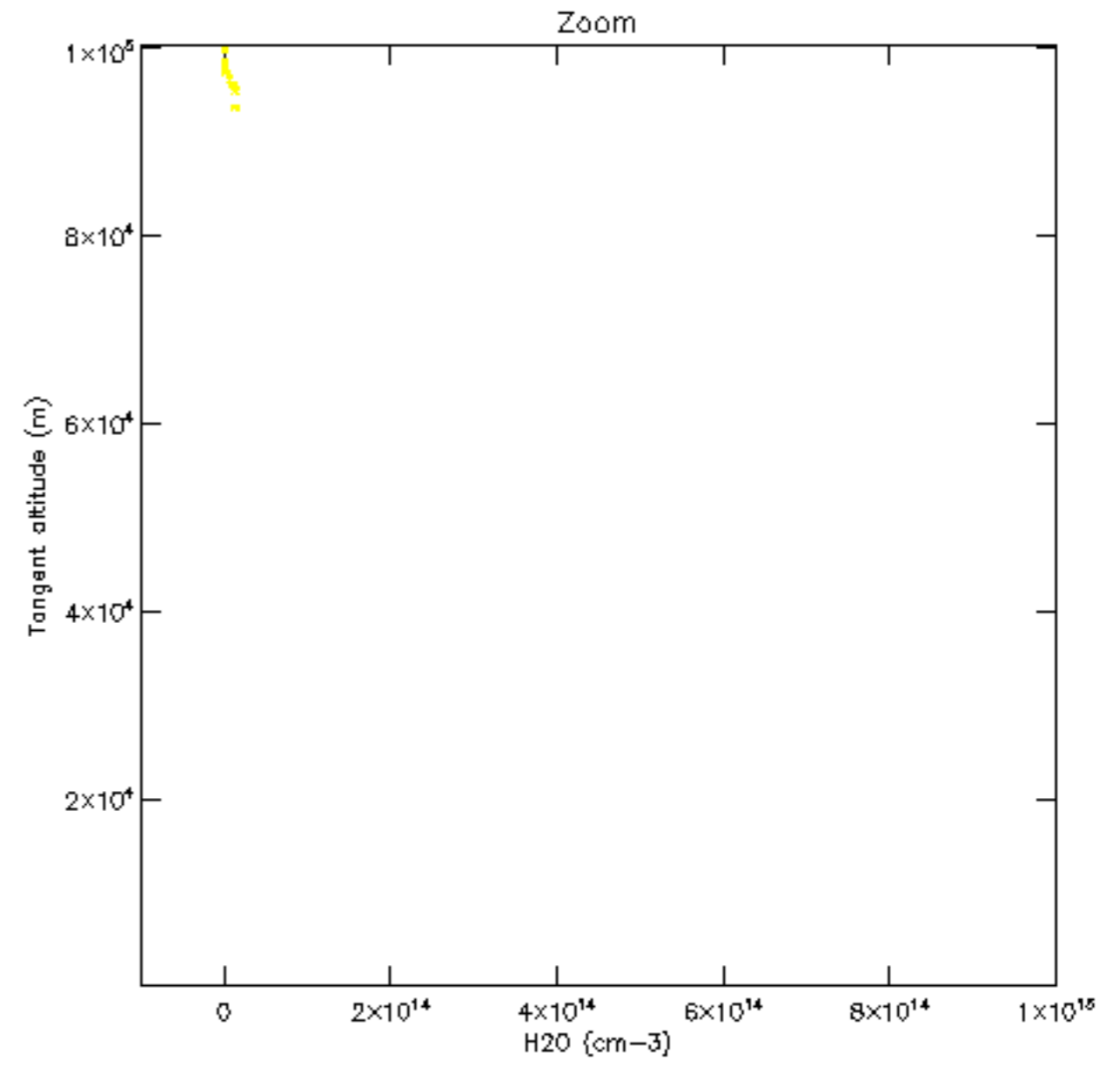
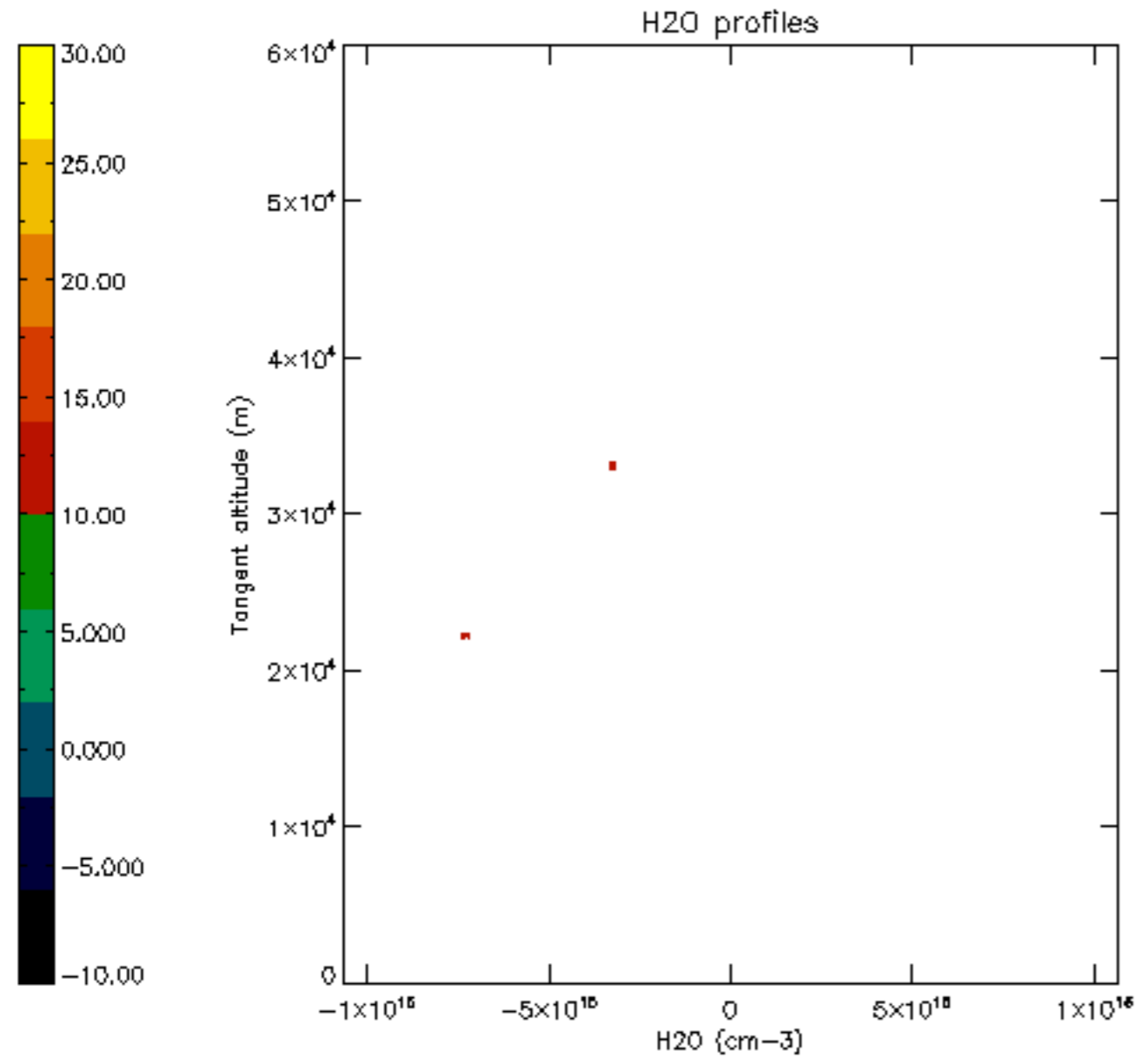


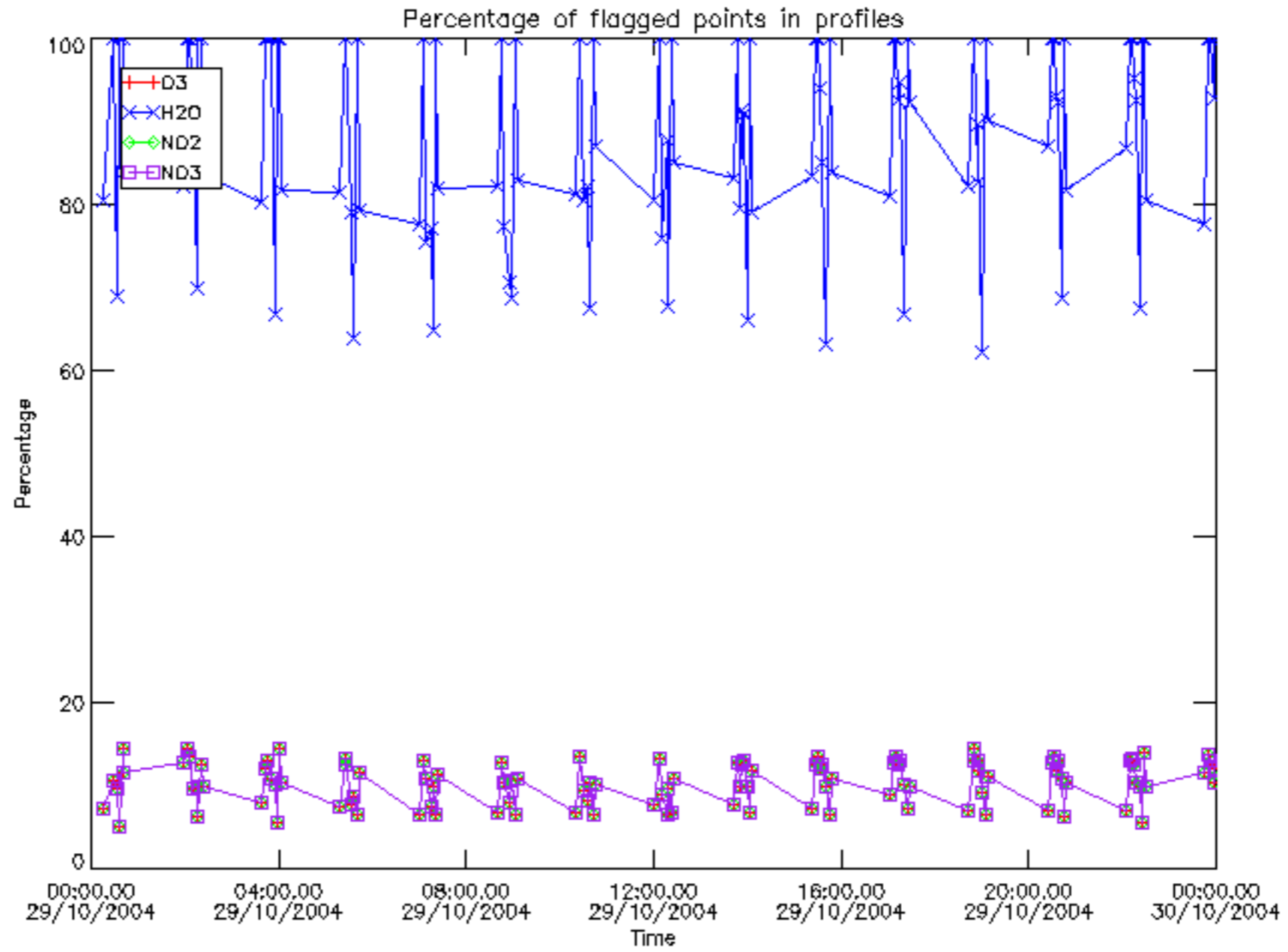




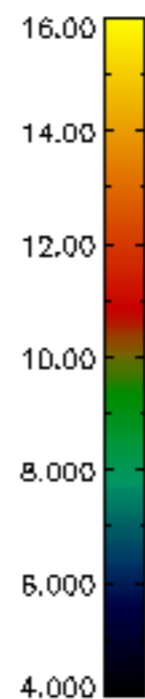
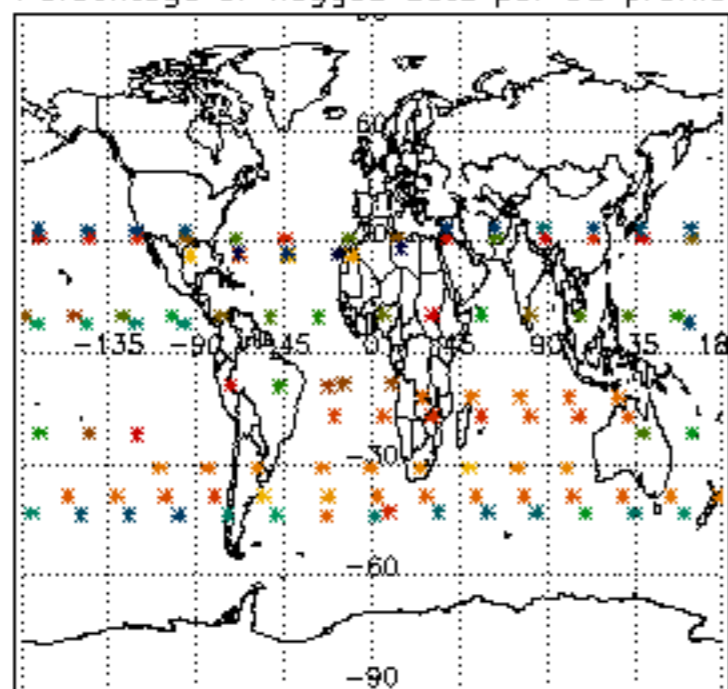




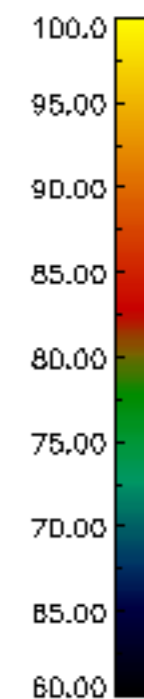
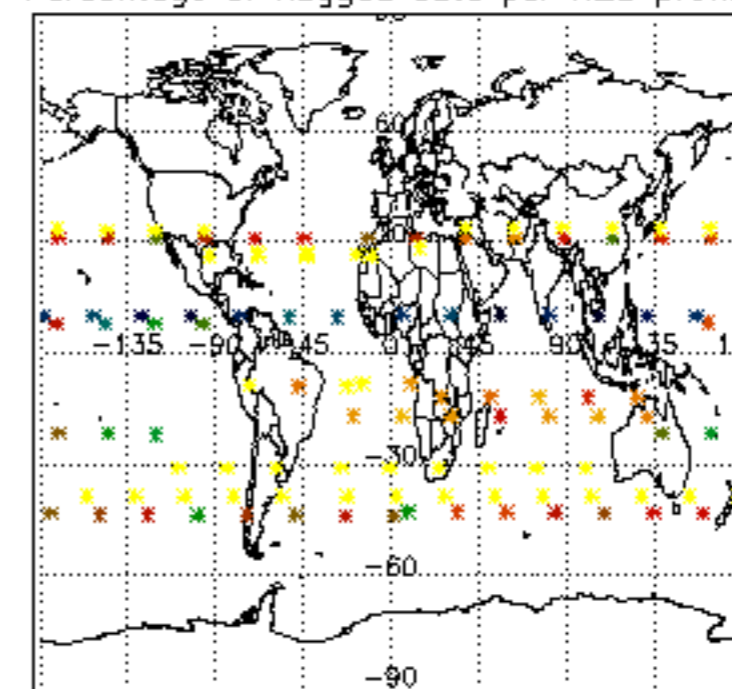




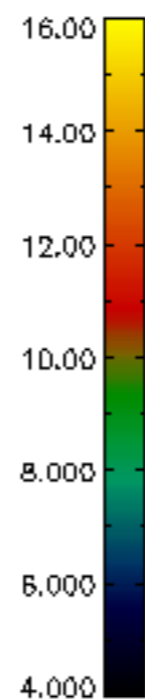
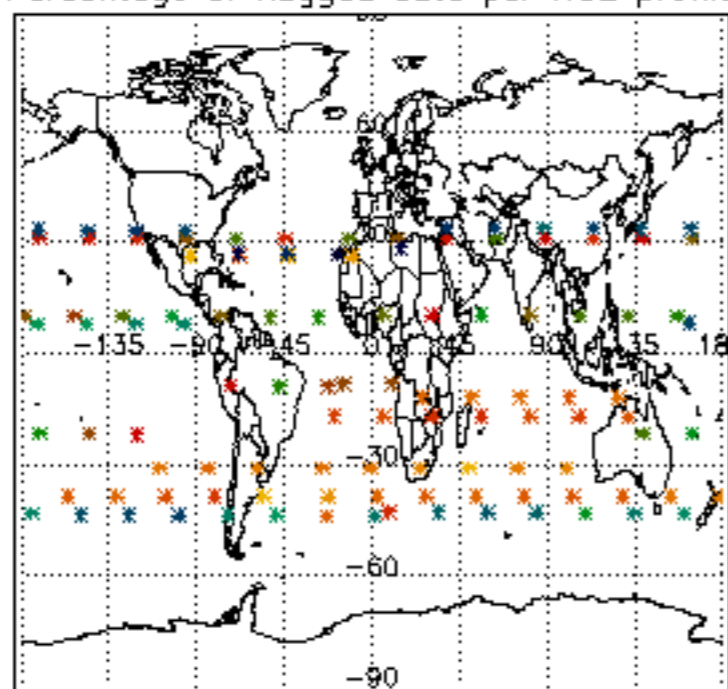
Percentage of flagged data per D3 profile



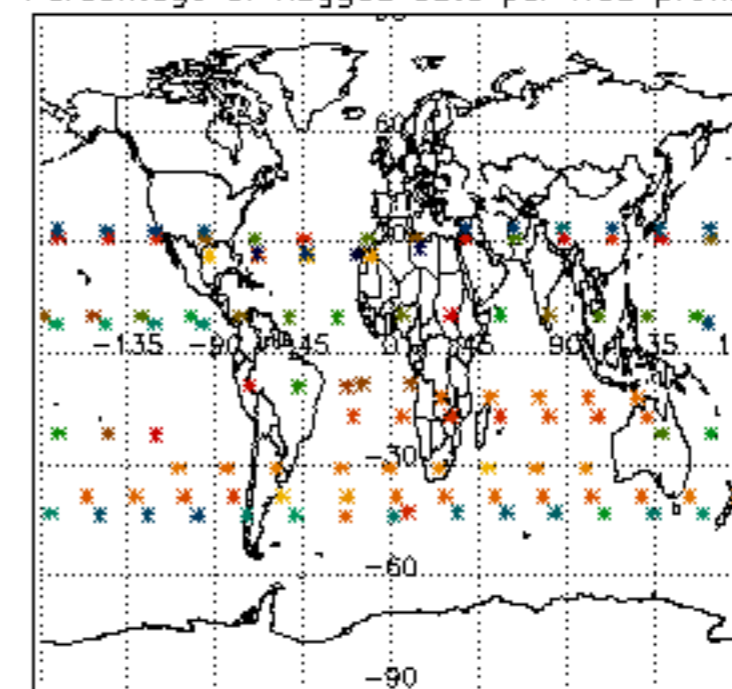
Percentage of flagged data per H2O profile

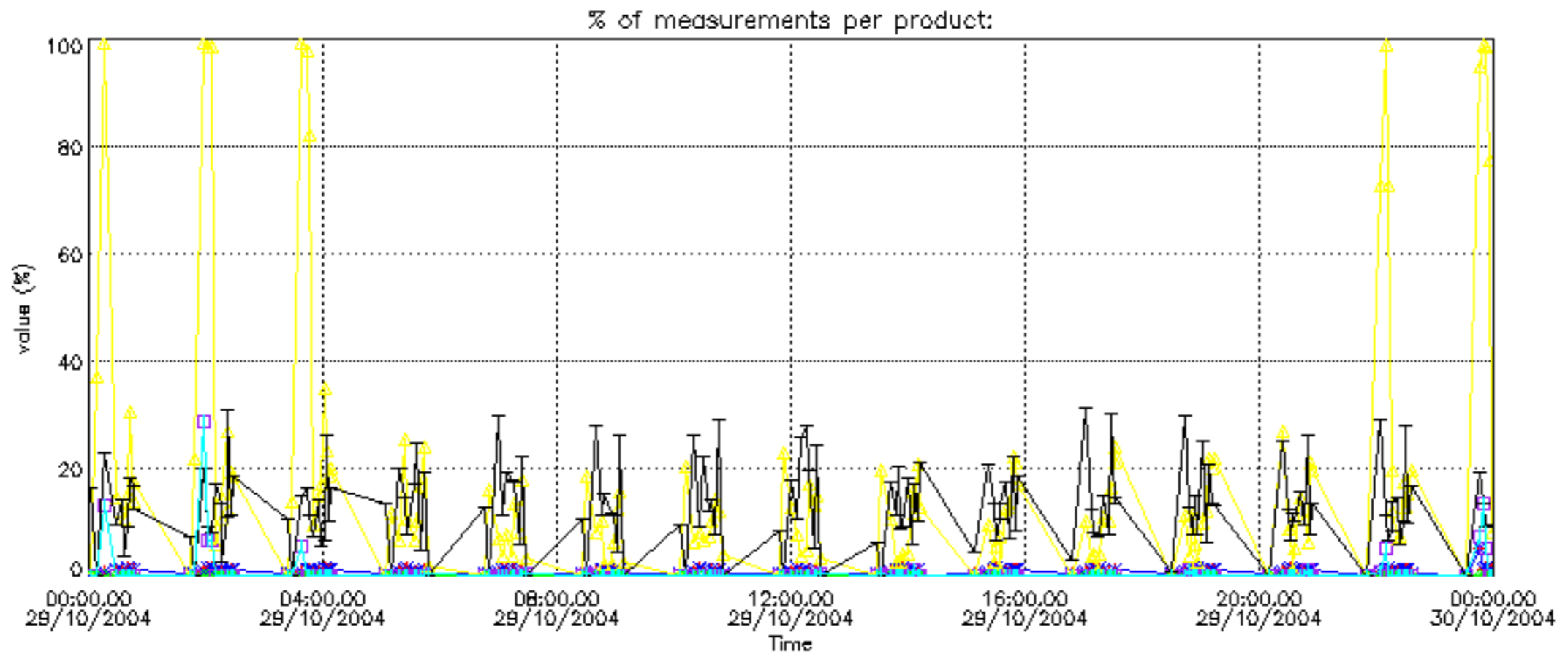


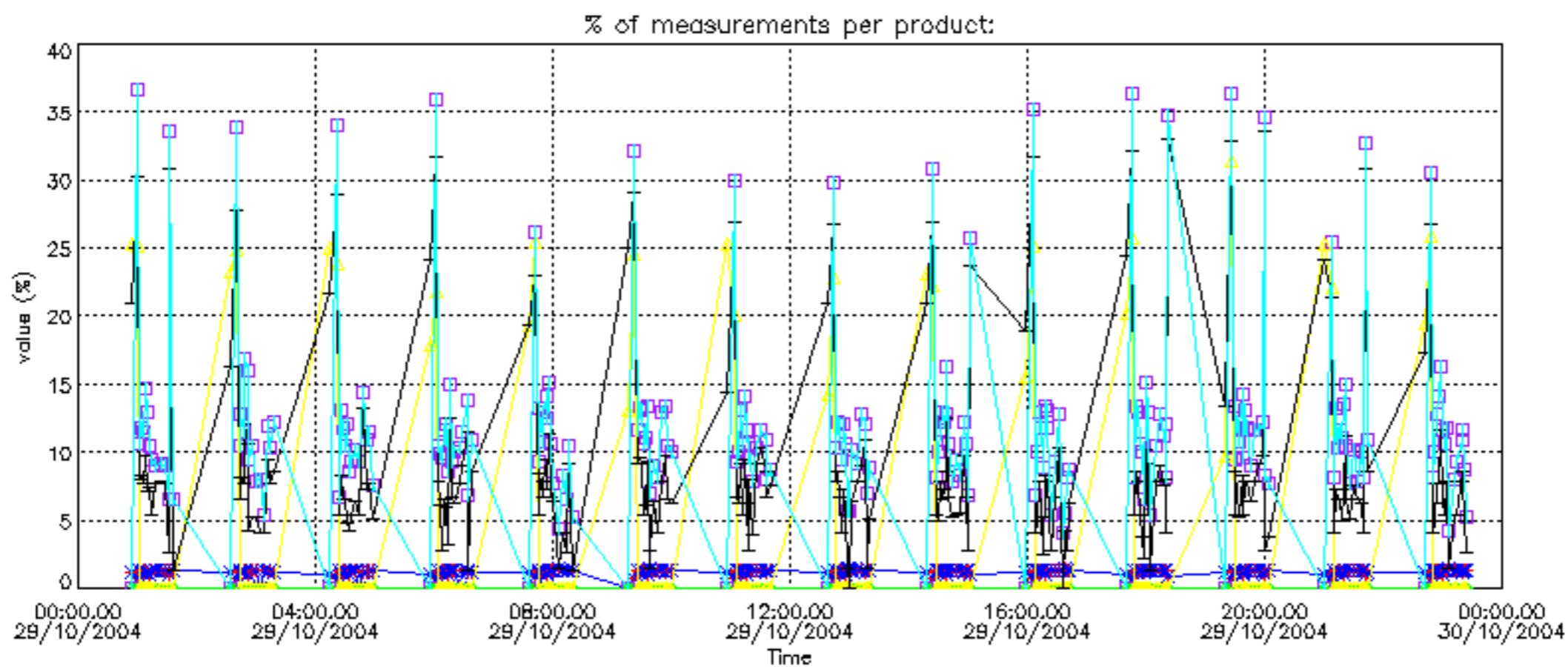
Percentage of flagged data per NO2 profile



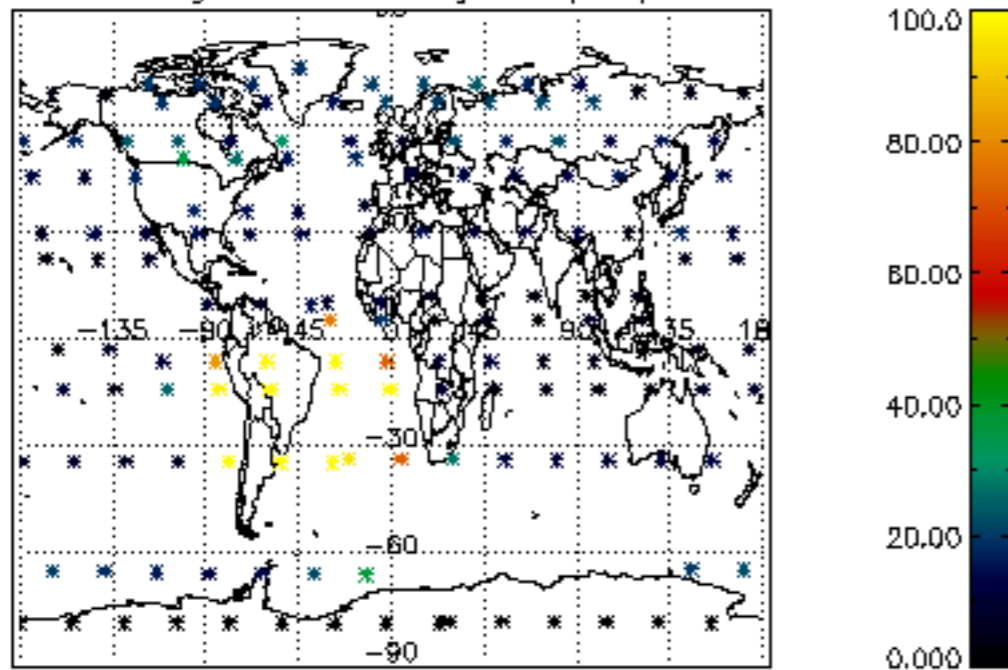
Percentage of flagged data per NO3 profile



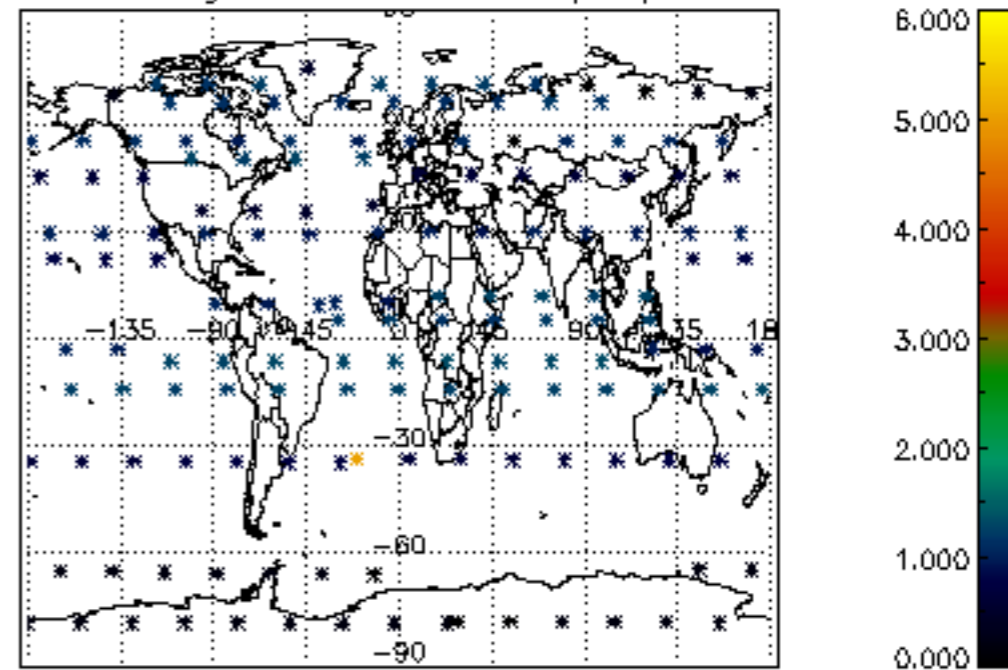




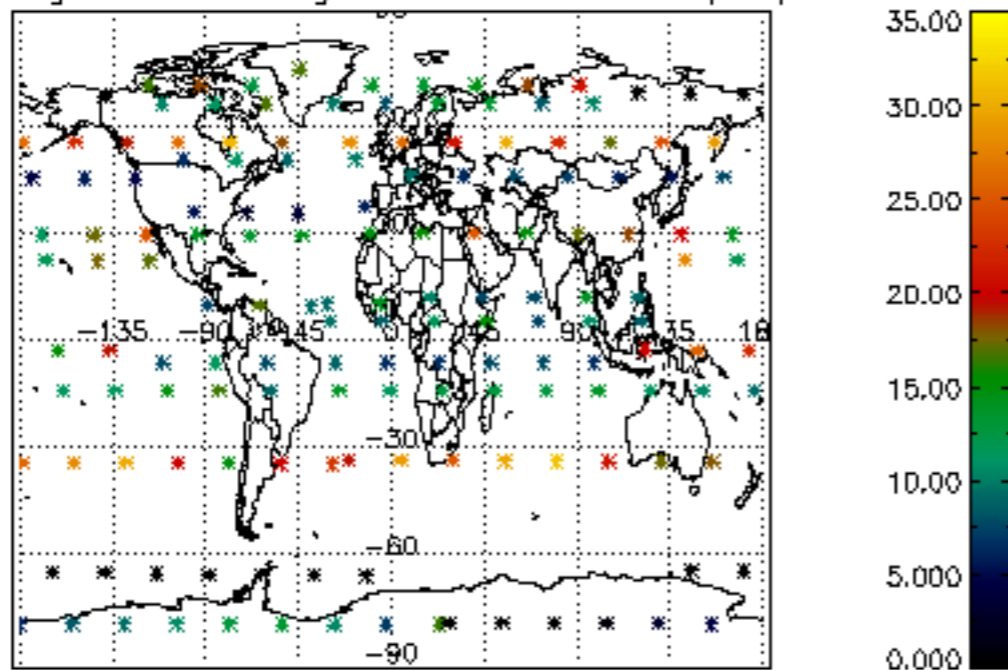
Percentage of cosmic ray hits per profile



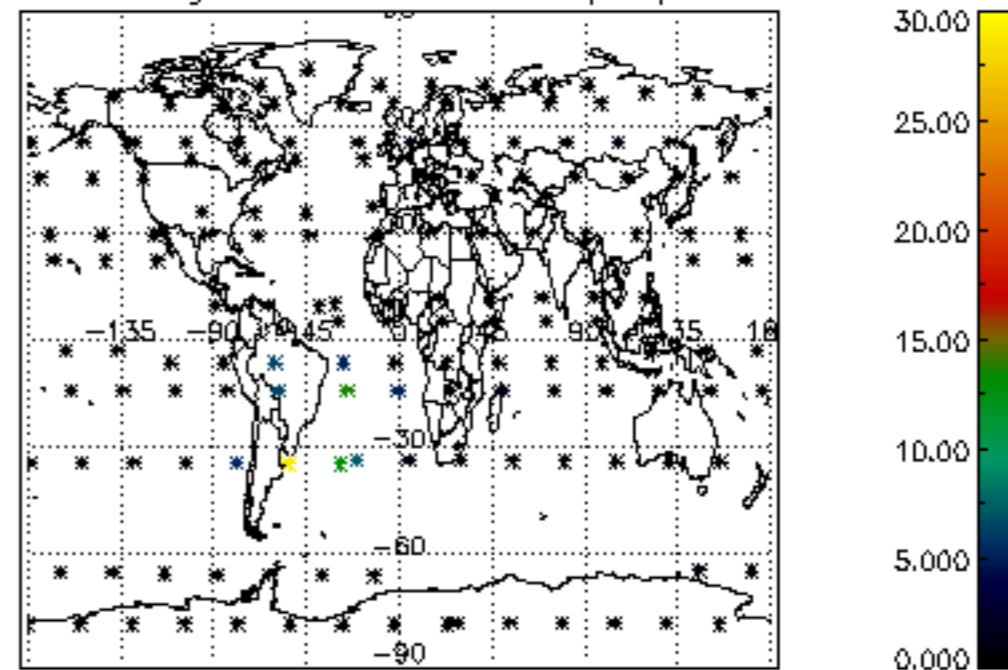
Percentage of datation errors per profile



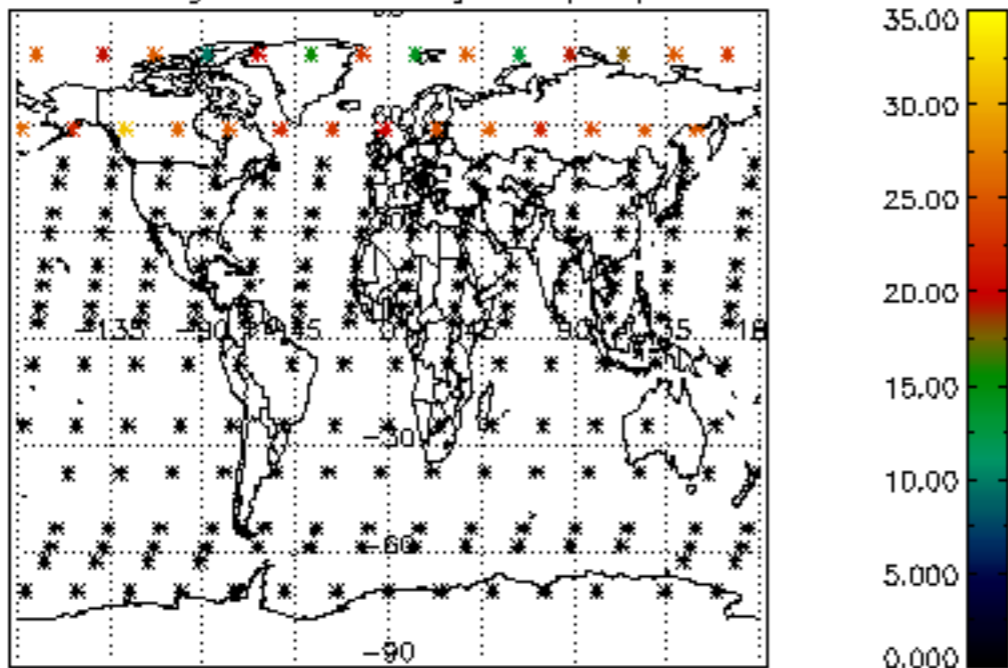
Percentage of star falling outside central band per profile



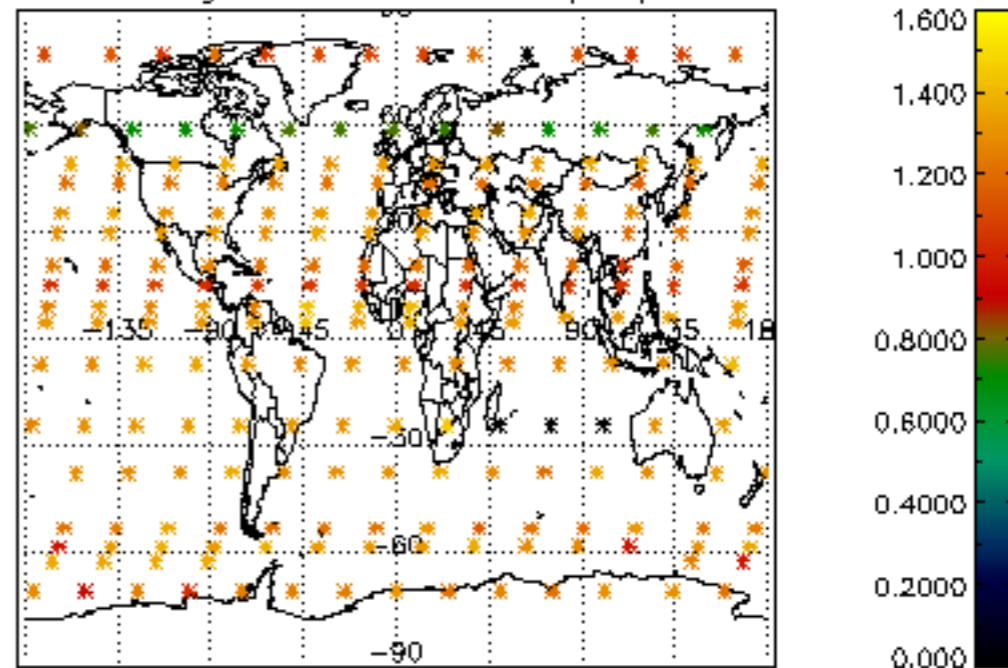
Percentage of saturation errors per profile



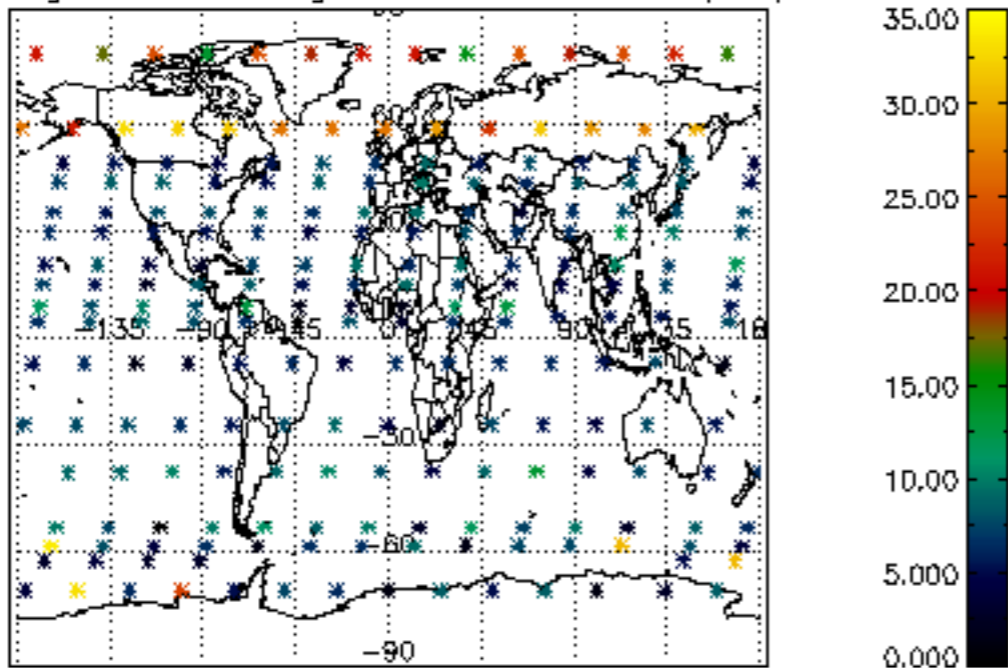
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

