

GOMOS Level 2 Daily Report

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

Item	Value
Time of report generation	24APR2013 05:04:32
Data source version	GOMOS/6.01
Start time of products	18-10-2006 (18OCT2006 00:00:00)
Stop time of products	19-10-2006 (19OCT2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	225
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

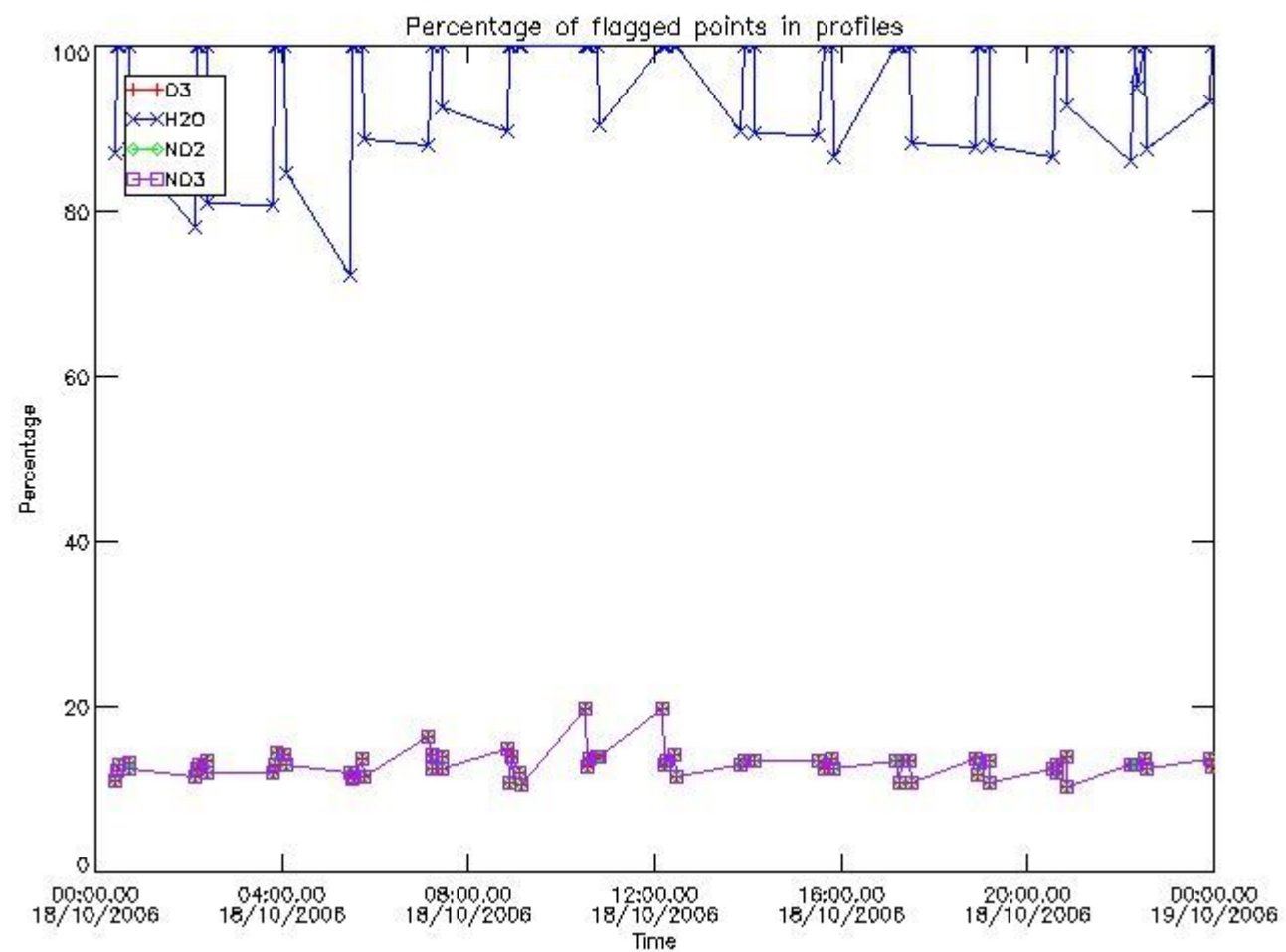
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20061018_000539_000000342052_00116_24218_2820.N1	18-OCT-2006 00:05:39	Bright	34.000	96	68Del Leo	2.5600	9300.0	68	24218	No
2	GOM_NL__2PRFIN20061018_002615_000000502052_00116_24218_2821.N1	18-OCT-2006 00:26:15	Dark	50.000	65	Lam Vel	2.2040	4400.0	100	24218	No
3	GOM_NL__2PRFIN20061018_002919_000000422052_00117_24219_3027.N1	18-OCT-2006 00:29:19	Dark	41.500	46	Del Vel	1.9540	10600.	83	24219	No
4	GOM_NL__2PRFIN20061018_003136_000000402052_00117_24219_3028.N1	18-OCT-2006 00:31:36	Dark	39.500	29	Bet Car	1.6720	10200.	79	24219	No
5	GOM_NL__2PRFIN20061018_004240_000000392052_00117_24219_3029.N1	18-OCT-2006 00:42:40	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	24219	No
6	GOM_NL__2PRFIN20061018_004406_000000412052_00117_24219_3030.N1	18-OCT-2006 00:44:06	Dark	40.500	9	Alp Eri	0.45300	24000.	81	24219	No
7	GOM_NL__2PRFIN20061018_004904_000000392052_00117_24219_3031.N1	18-OCT-2006 00:49:04	Straylight	39.000	84	Alp Phe	2.3970	4500.0	78	24219	No
8	GOM_NL__2PRFIN20061018_005539_000000422052_00117_24219_3032.N1	18-OCT-2006 00:55:39	Straylight	42.000	52	16Bet Cet	2.0370	4500.0	84	24219	No
9	GOM_NL__2PRFIN20061018_010514_000000352052_00117_24219_3033.N1	18-OCT-2006 01:05:14	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	24219	No
10	GOM_NL__2PRFIN20061018_010911_000000362052_00117_24219_3034.N1	18-OCT-2006 01:09:11	Bright	36.000	58	21Alp And	2.0730	11000.	72	24219	No
11	GOM_NL__2PRFIN20061018_011741_000000372052_00117_24219_3035.N1	18-OCT-2006 01:17:41	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	24219	No
12	GOM_NL__2PRFIN20061018_012613_000000362052_00117_24219_3036.N1	18-OCT-2006 01:26:13	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	24219	No
13	GOM_NL__2PRFIN20061018_012920_000000522052_00117_24219_3037.N1	18-OCT-2006 01:29:20	Bright	52.000	60	7Bet UMi	2.0810	3950.0	104	24219	No
14	GOM_NL__2PRFIN20061018_013427_000000382052_00117_24219_3038.N1	18-OCT-2006 01:34:27	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	24219	No
15	GOM_NL__2PRFIN20061018_013601_000000362052_00117_24219_3039.N1	18-OCT-2006 01:36:01	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	24219	No
16	GOM_NL__2PRFIN20061018_013927_000000352052_00117_24219_3040.N1	18-OCT-2006 01:39:27	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	24219	No
17	GOM_NL__2PRFIN20061018_014615_000000342052_00117_24219_3041.N1	18-OCT-2006 01:46:15	Bright	33.500	96	68Del Leo	2.5600	9300.0	67	24219	No
18	GOM_NL__2PRFIN20061018_020652_000000442052_00117_24219_3042.N1	18-OCT-2006 02:06:52	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	24219	No
19	GOM_NL__2PRFIN20061018_020956_000000412052_00118_24220_2807.N1	18-OCT-2006 02:09:56	Dark	41.000	46	Del Vel	1.9540	10600.	82	24220	No
20	GOM_NL__2PRFIN20061018_021213_000000402052_00118_24220_2808.N1	18-OCT-2006 02:12:13	Dark	39.500	29	Bet Car	1.6720	10200.	79	24220	No
21	GOM_NL__2PRFIN20061018_022316_000000382052_00118_24220_2809.N1	18-OCT-2006 02:23:16	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	24220	No
22	GOM_NL__2PRFIN20061018_022442_000000432052_00118_24220_2810.N1	18-OCT-2006 02:24:42	Dark	42.500	9	Alp Eri	0.45300	24000.	85	24220	No
23	GOM_NL__2PRFIN20061018_022940_000000442052_00118_24220_2811.N1	18-OCT-2006 02:29:40	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	24220	No
24	GOM_NL__2PRFIN20061018_023615_000000442052_00118_24220_2812.N1	18-OCT-2006 02:36:15	Straylight	44.000	52	16Bet Cet	2.0370	4500.0	88	24220	No
25	GOM_NL__2PRFIN20061018_024551_000000372052_00118_24220_2813.N1	18-OCT-2006 02:45:51	Bright	36.500	140	88Gam Peg	2.8340	26000.	73	24220	No
26	GOM_NL__2PRFIN20061018_024947_000000372052_00118_24220_2814.N1	18-OCT-2006 02:49:47	Bright	37.000	58	21Alp And	2.0730	11000.	74	24220	No
27	GOM_NL__2PRFIN20061018_025817_000000352052_00118_24220_2815.N1	18-OCT-2006 02:58:17	Bright	35.000	74	11Bet Cas	2.2680	6600.0	70	24220	No
28	GOM_NL__2PRFIN20061018_030649_000000352052_00118_24220_2816.N1	18-OCT-2006 03:06:49	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	24220	No
29	GOM_NL__2PRFIN20061018_030956_000000362052_00118_24220_2817.N1	18-OCT-2006 03:09:56	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	24220	No
30	GOM_NL__2PRFIN20061018_031503_000000382052_00118_24220_2818.N1	18-OCT-2006 03:15:03	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	24220	No
31	GOM_NL__2PRFIN20061018_031637_000000362052_00118_24220_2819.N1	18-OCT-2006 03:16:37	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	24220	No
32	GOM_NL__2PRFIN20061018_032003_000000362052_00118_24220_2820.N1	18-OCT-2006 03:20:03	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	24220	No
33	GOM_NL__2PRFIN20061018_032652_000000332052_00118_24220_2821.N1	18-OCT-2006 03:26:52	Bright	33.000	96	68Del Leo	2.5600	9300.0	66	24220	No
34	GOM_NL__2PRFIN20061018_034729_000000422052_00118_24220_2822.N1	18-OCT-2006 03:47:29	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	24220	No
35	GOM_NL__2PRFIN20061018_035033_000000402052_00119_24221_2807.N1	18-OCT-2006 03:50:33	Dark	39.500	46	Del Vel	1.9540	10600.	79	24221	No
36	GOM_NL__2PRFIN20061018_035249_000000392052_00119_24221_2808.N1	18-OCT-2006 03:52:49	Dark	38.500	29	Bet Car	1.6720	10200.	77	24221	No
37	GOM_NL__2PRFIN20061018_040352_000000362052_00119_24221_2809.N1	18-OCT-2006 04:03:52	Dark	36.000	143	Alp Hyi	2.8570	7200.0	72	24221	No
38	GOM_NL__2PRFIN20061018_040518_000000402052_00119_24221_2810.N1	18-OCT-2006 04:05:18	Dark	39.500	9	Alp Eri	0.45300	24000.	79	24221	No
39	GOM_NL__2PRFIN20061018_041017_000000442052_00119_24221_2811.N1	18-OCT-2006 04:10:17	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	24221	No
40	GOM_NL__2PRFIN20061018_041651_000000432052_00119_24221_2812.N1	18-OCT-2006 04:16:51	Straylight	42.500	52	16Bet Cet	2.0370	4500.0	85	24221	No
41	GOM_NL__2PRFIN20061018_042627_000000352052_00119_24221_2813.N1	18-OCT-2006 04:26:27	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	24221	No
42	GOM_NL__2PRFIN20061018_043023_000000372052_00119_24221_2814.N1	18-OCT-2006 04:30:23	Bright	36.500	58	21Alp And	2.0730	11000.	73	24221	No

220	GOM_NL__2PRFIN20061018_232215_000000382052_00130_24232_2954.N1	18-OCT-2006 23:22:15	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	24232	No
221	GOM_NL__2PRFIN20061018_232349_000000372052_00130_24232_2955.N1	18-OCT-2006 23:23:49	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	24232	No
222	GOM_NL__2PRFIN20061018_232715_000000382052_00130_24232_2956.N1	18-OCT-2006 23:27:15	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	24232	No
223	GOM_NL__2PRFIN20061018_233405_000000342052_00130_24232_2957.N1	18-OCT-2006 23:34:05	Bright	34.000	96	68Del Leo	2.5600	9300.0	68	24232	No
224	GOM_NL__2PRFIN20061018_235337_000000372052_00130_24232_2958.N1	18-OCT-2006 23:53:37	Dark	37.000	113	Mu Vel	2.6920	5000.0	74	24232	No
225	GOM_NL__2PRFIN20061018_235750_000000402052_00131_24233_2945.N1	18-OCT-2006 23:57:50	Dark	40.000	46	Del Vel	1.9540	10600.	80	24233	No

3. Quality information per product

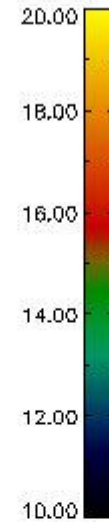
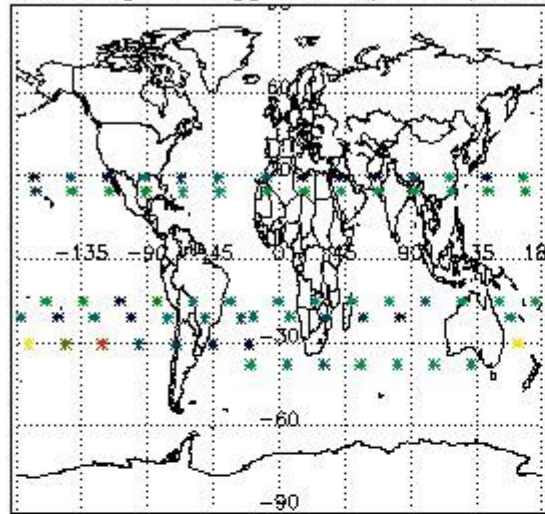
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

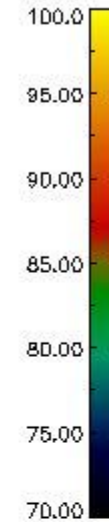
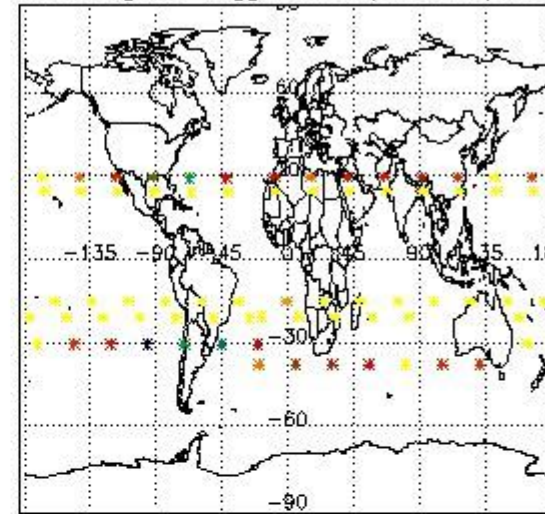


3.2 Plot quality information per product (world map)

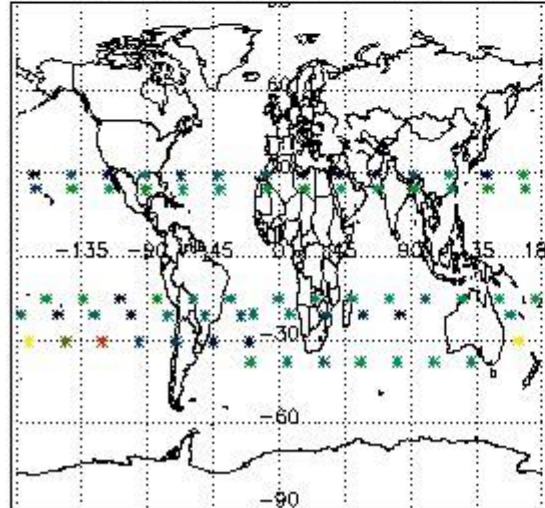
Percentage of flagged data per O3 profile



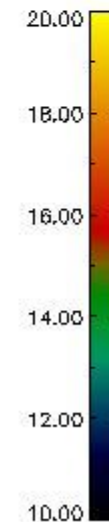
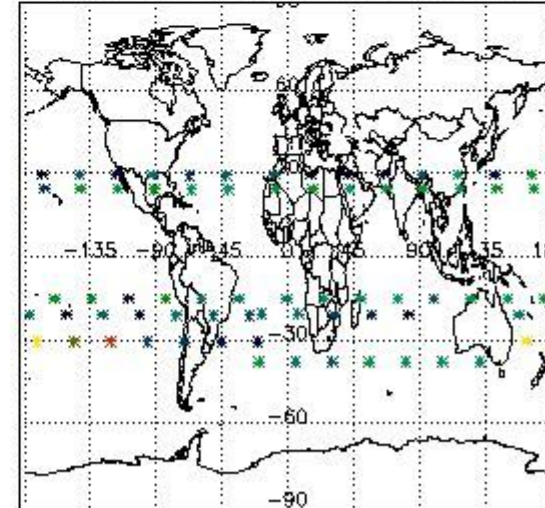
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

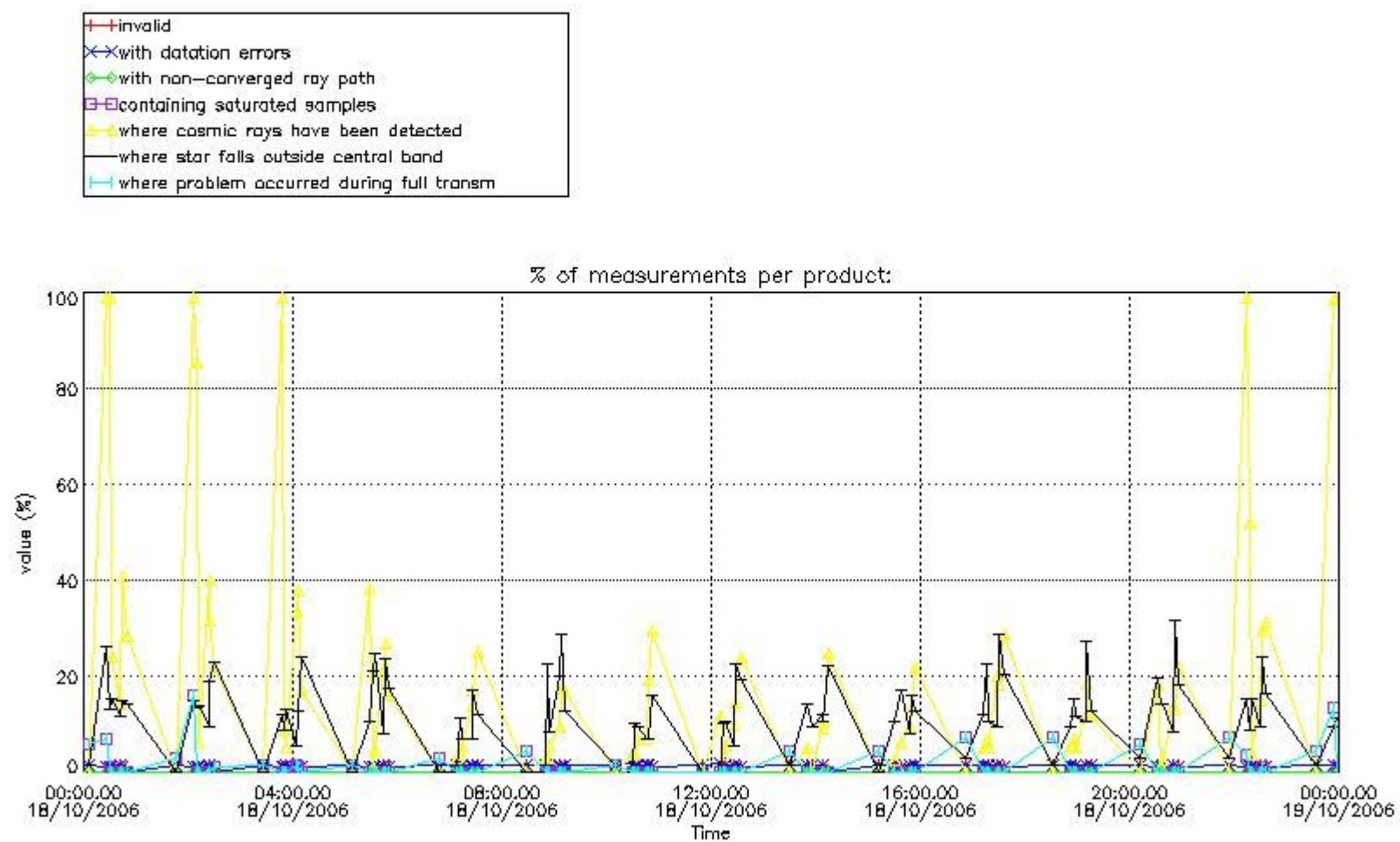


4. Level 1 quality information per product

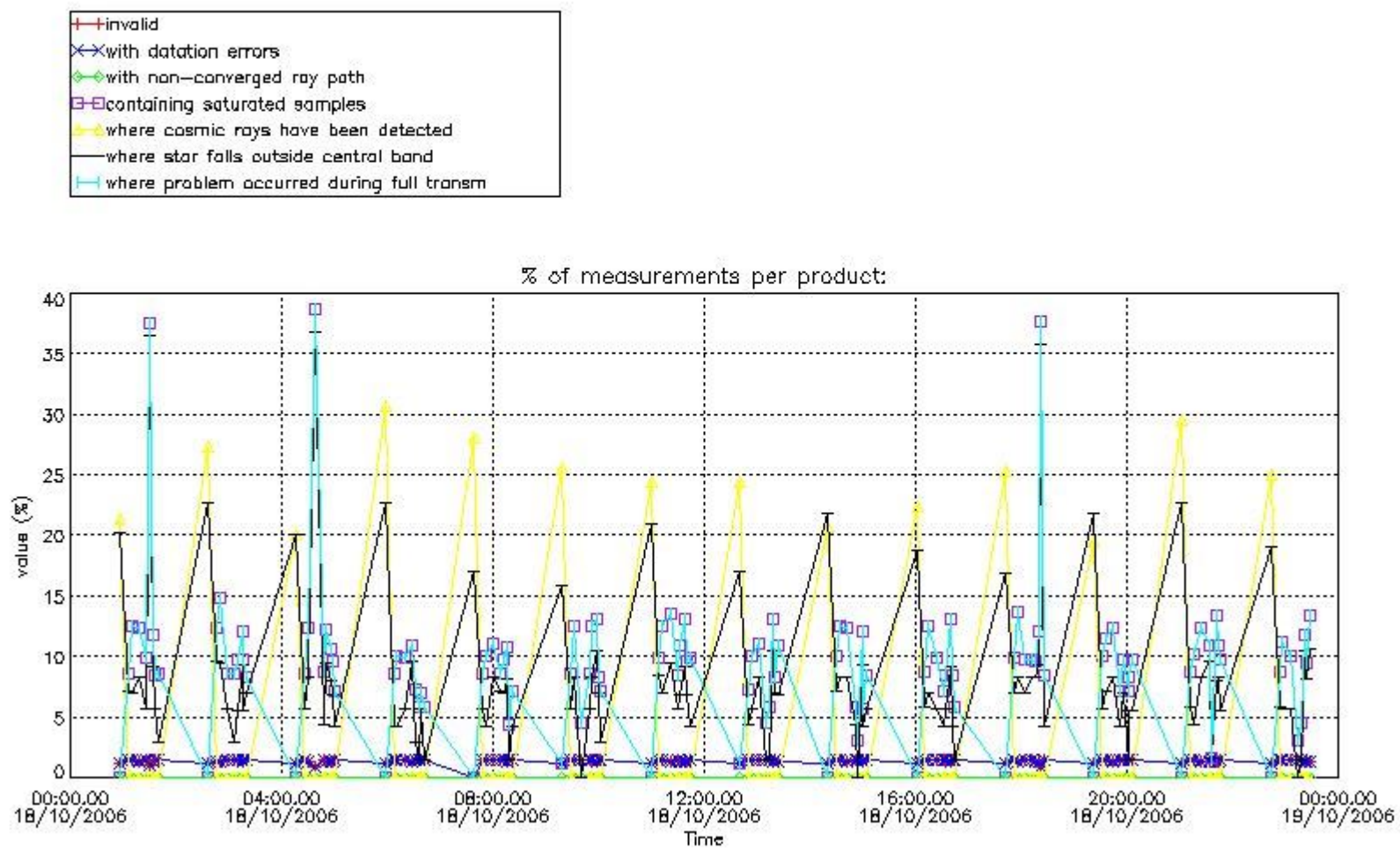
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



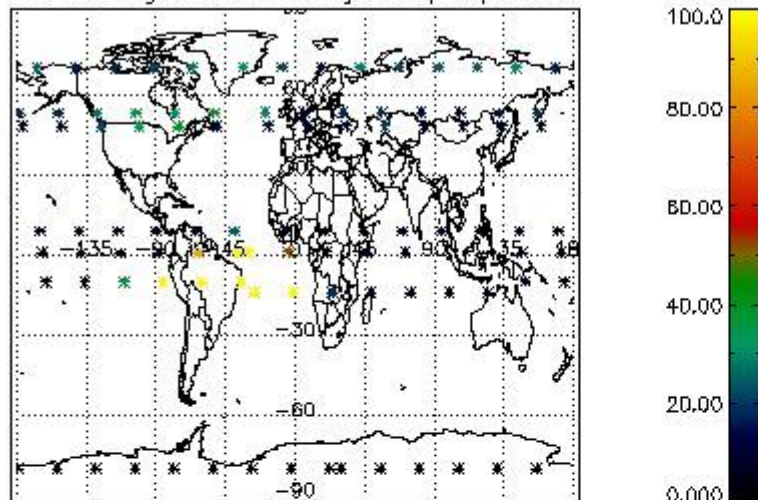
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



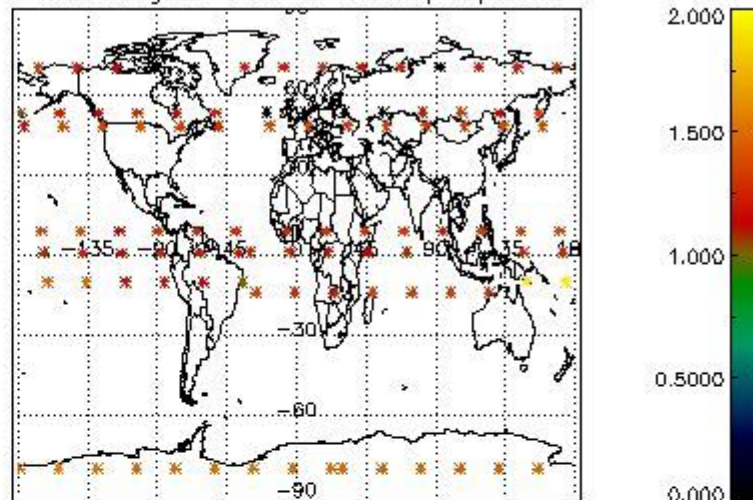
4.2 Plot quality information per product coming from level 1b processing (world map)

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

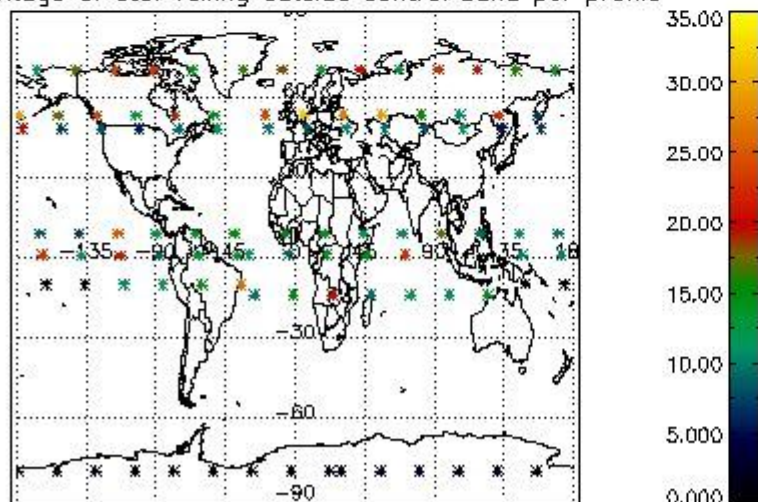
Percentage of cosmic ray hits per profile



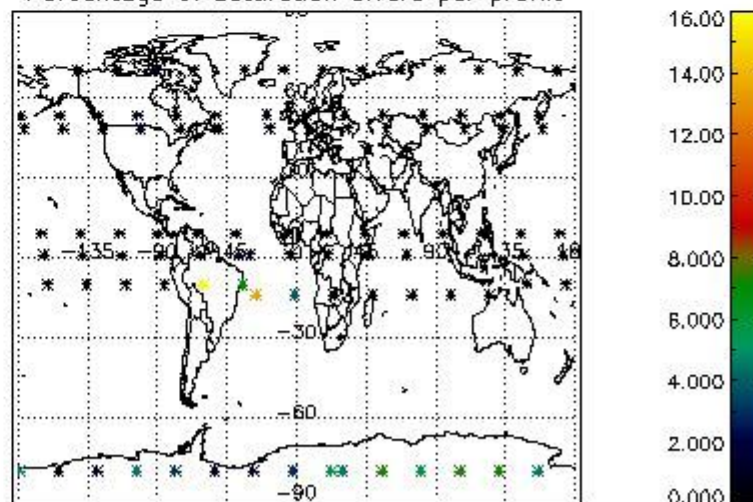
Percentage of datation errors per profile



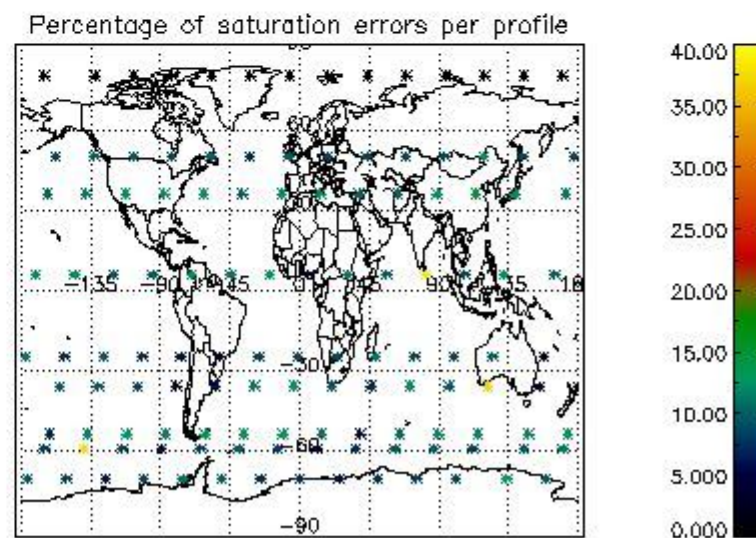
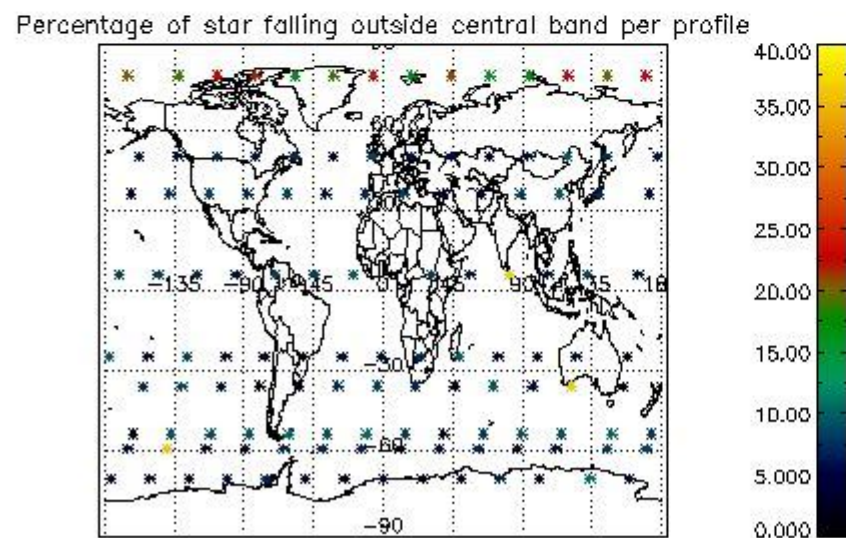
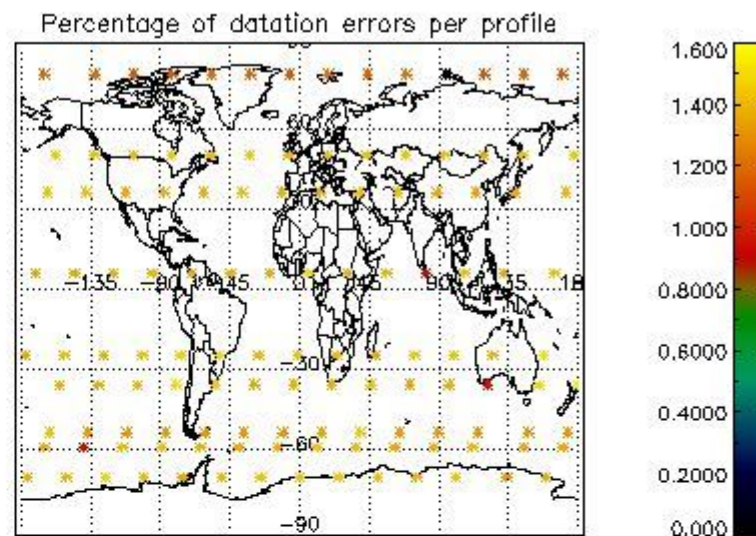
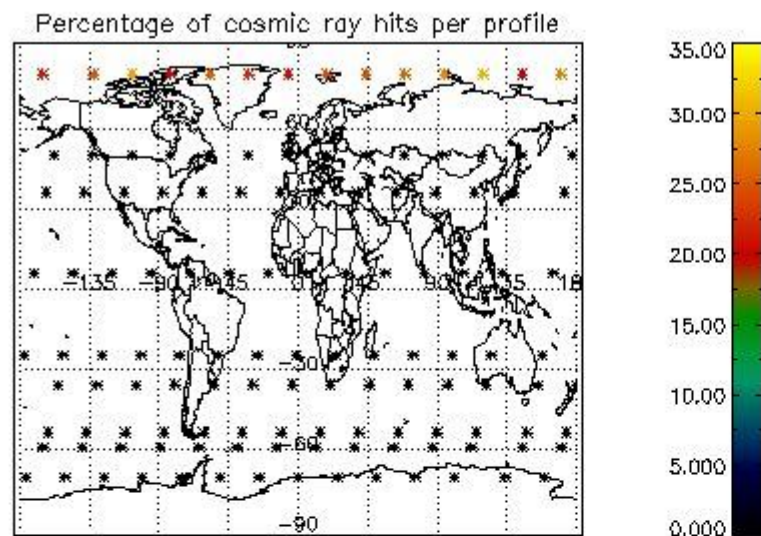
Percentage of star falling outside central band per profile



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

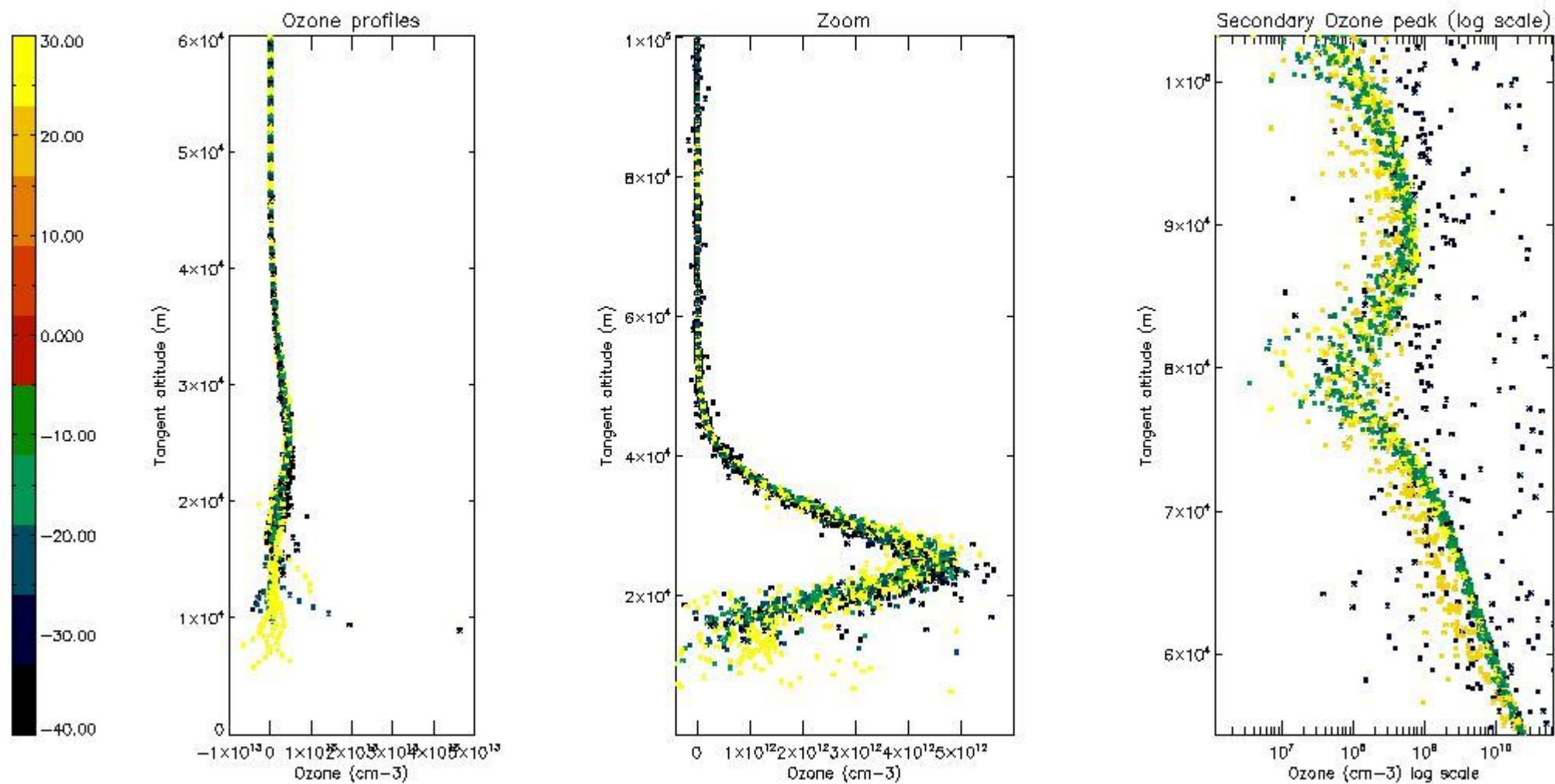
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	18

STD < 10	14
STD < 5	9

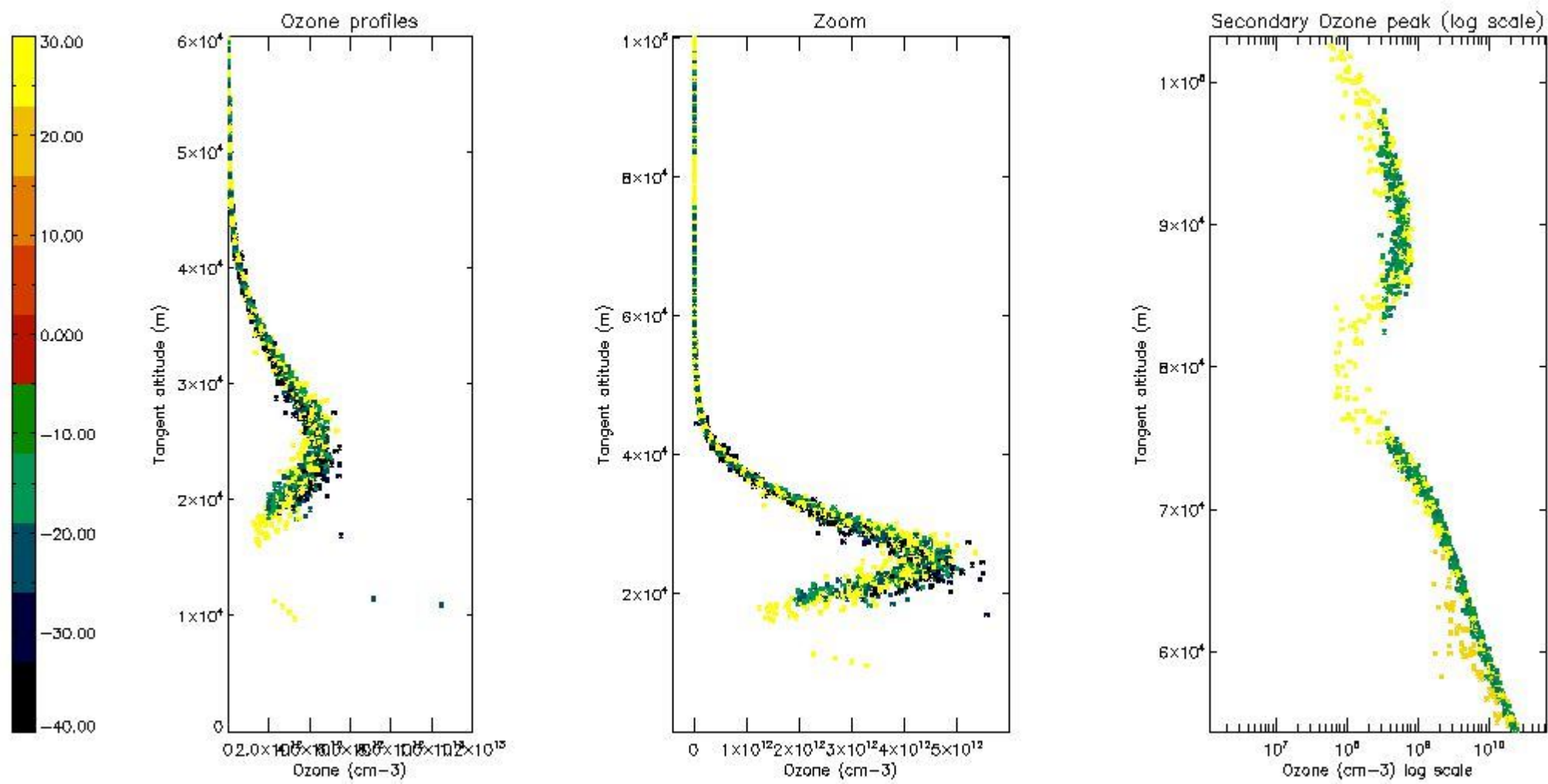
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



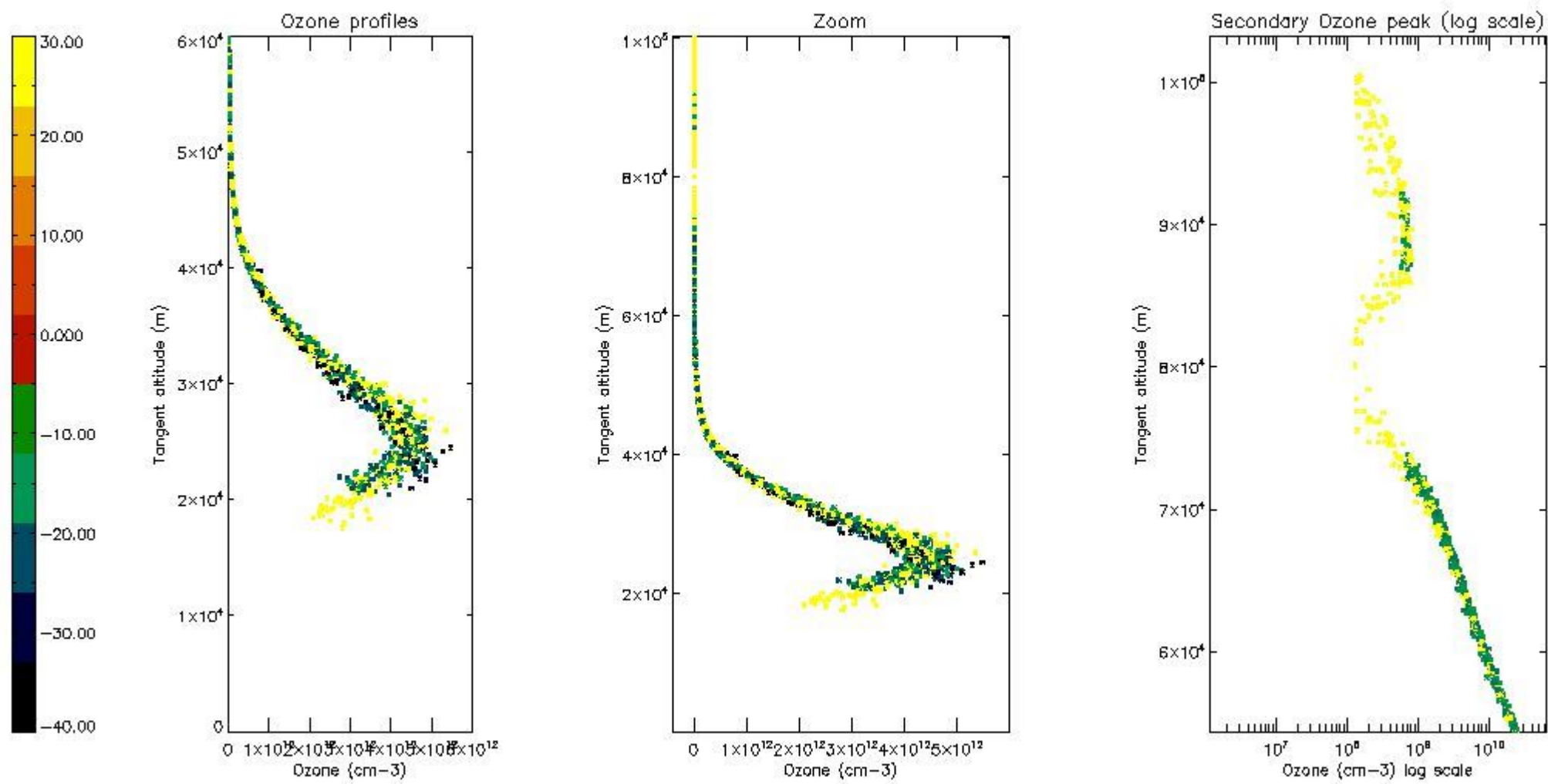
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



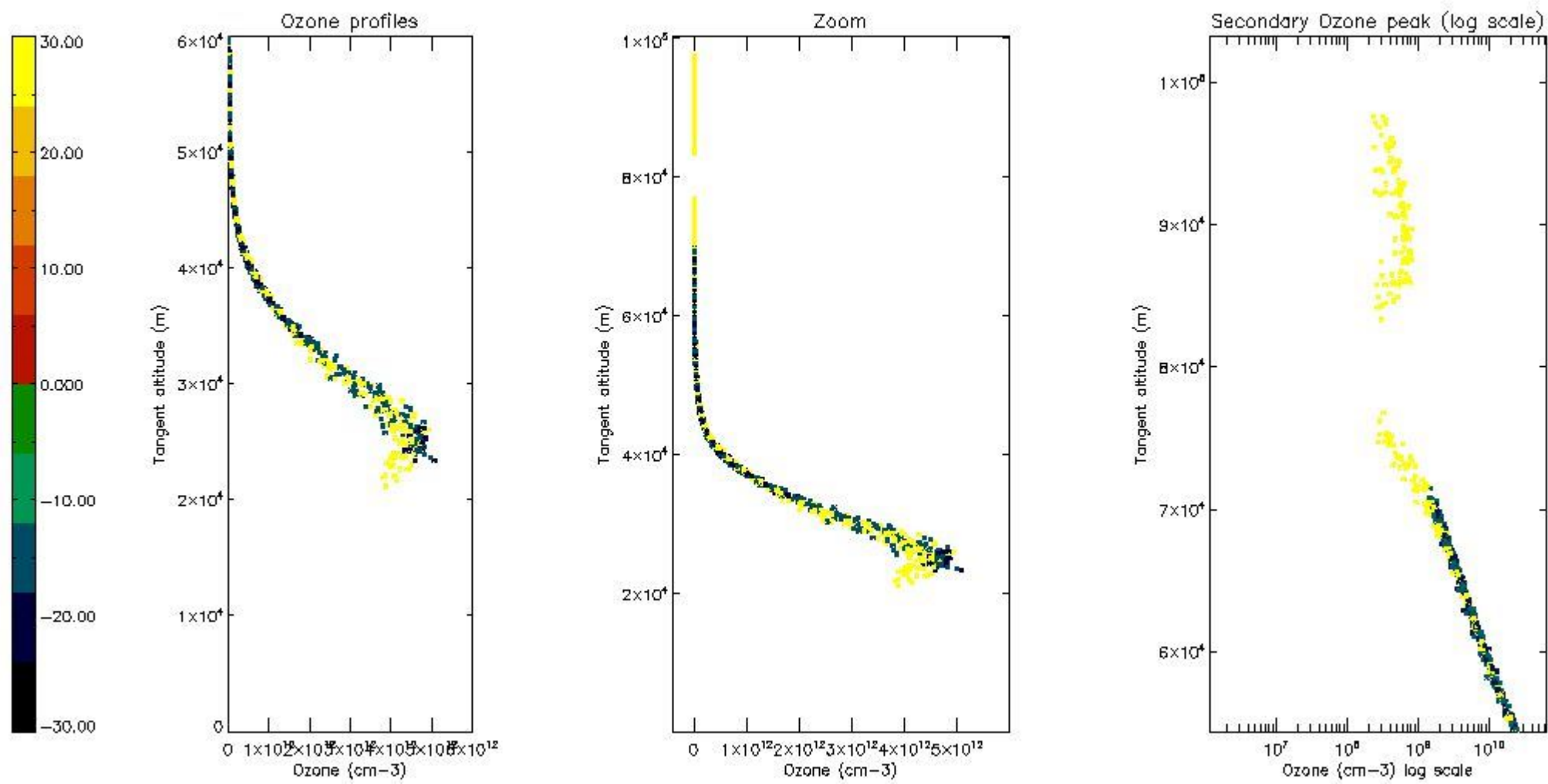
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



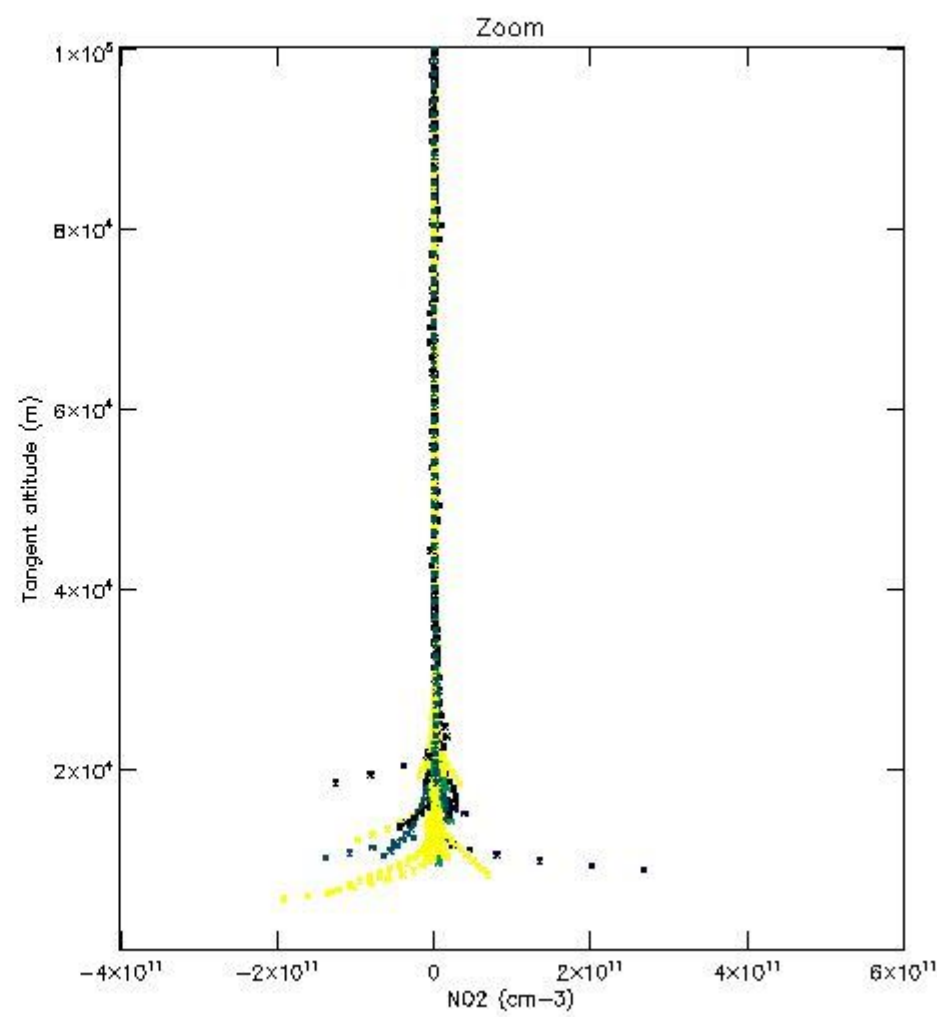
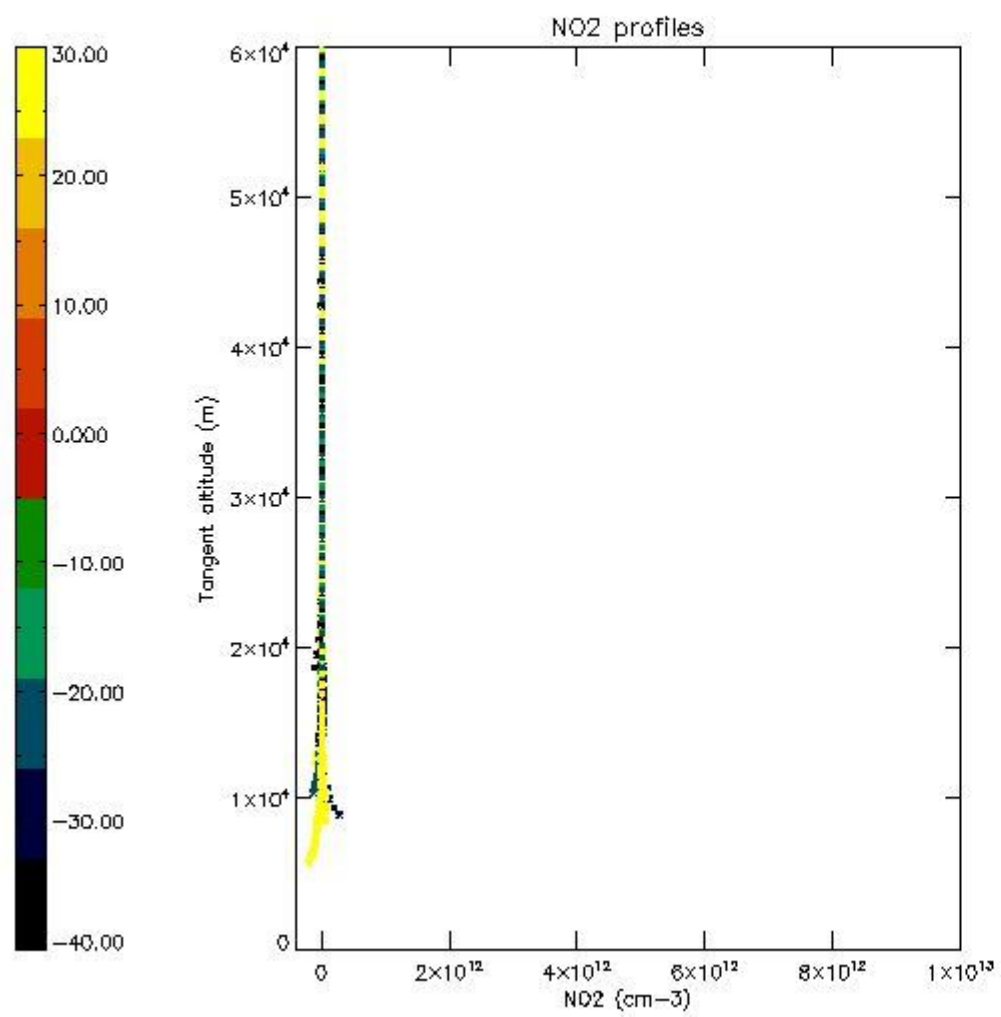
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



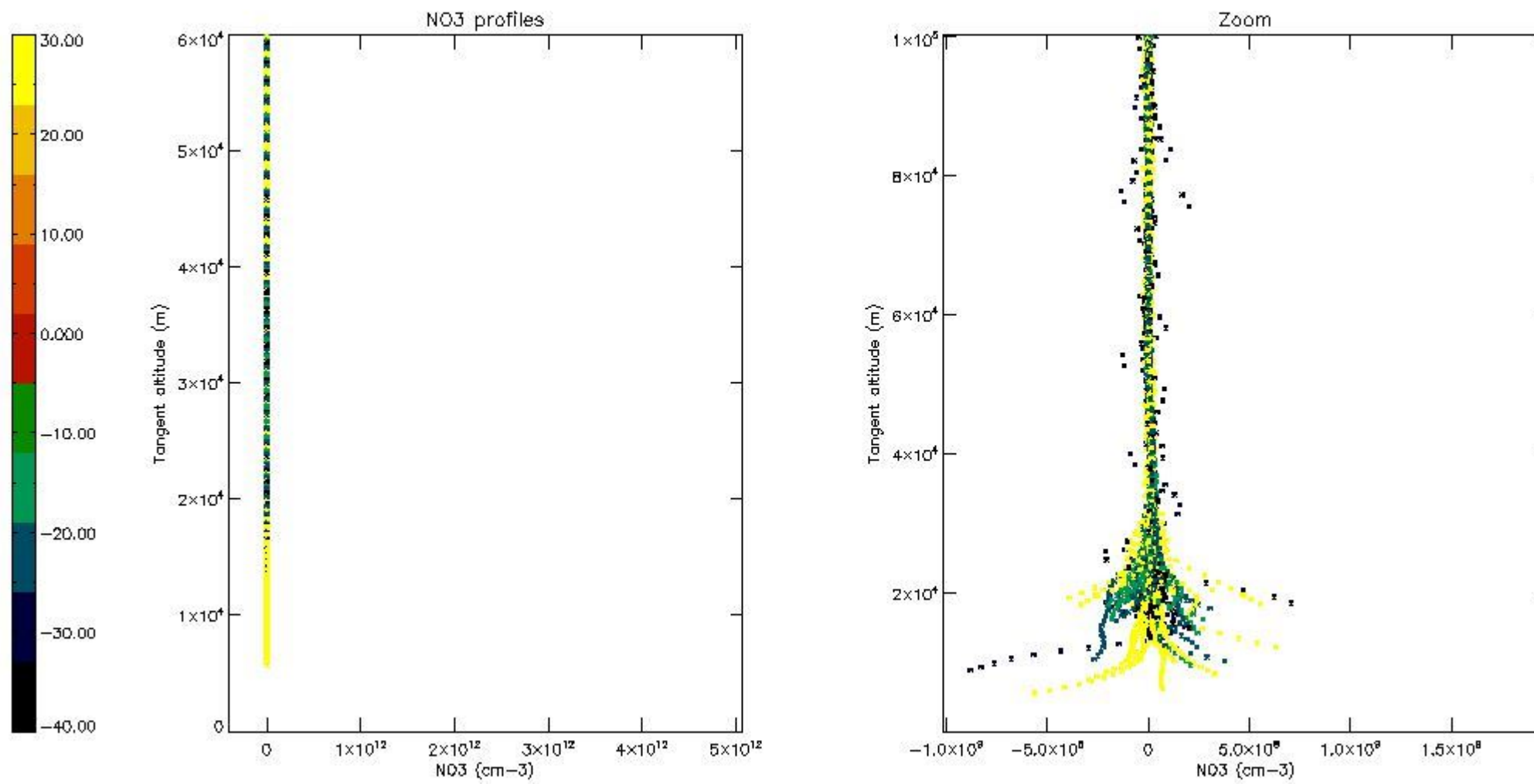
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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	18-OCT-2006 00:05:39
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	18-OCT-2006 00:05:39
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	18-OCT-2006 00:05:39

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[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

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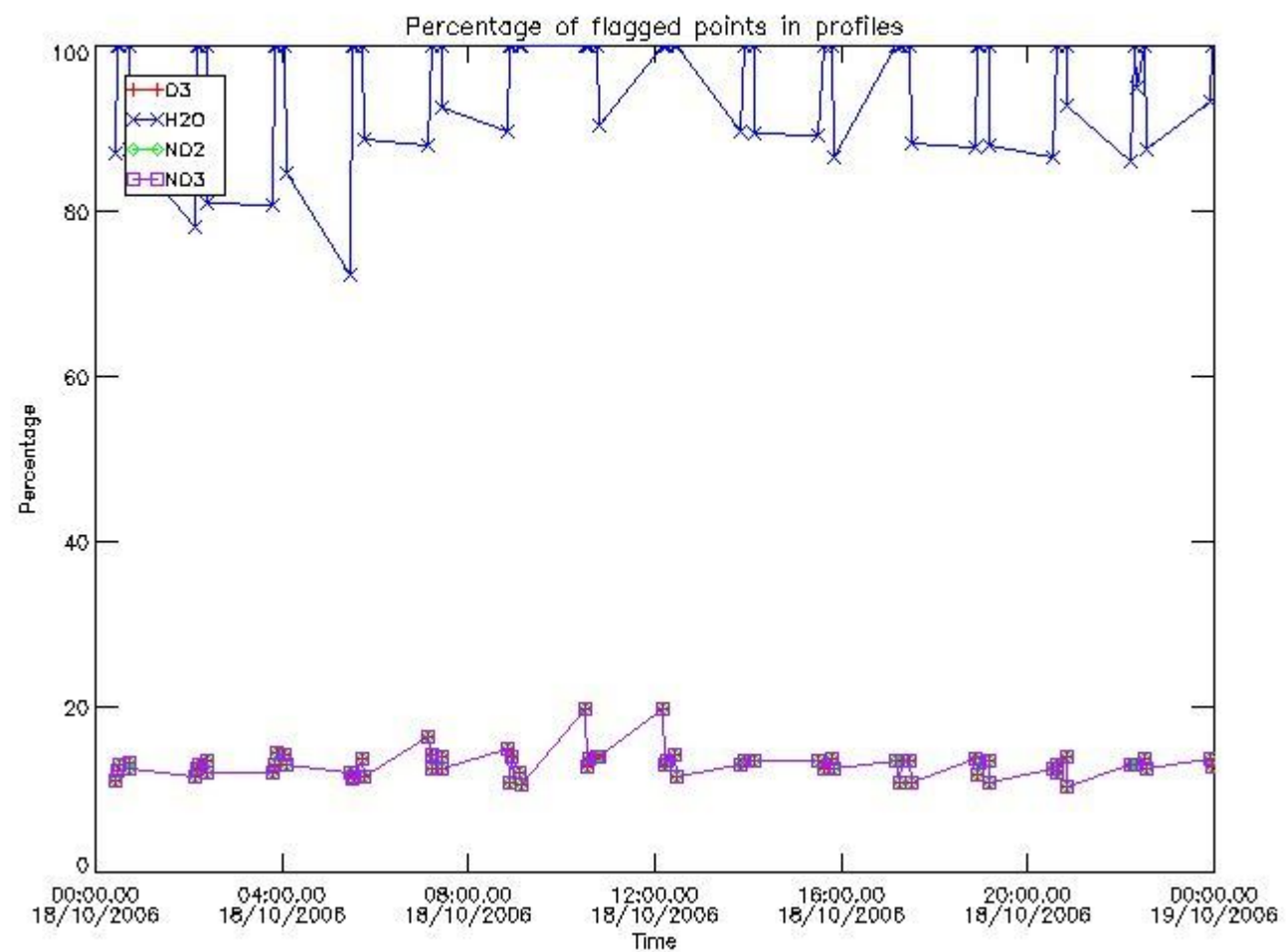
[6. Auxiliary Data Files used for the production reported in section 2](#)

220	GOM_NL__2PRFIN20061018_232215_000000382052_00130_24232_2954.N1	18-OCT-2006 23:22:15	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	24232	No
221	GOM_NL__2PRFIN20061018_232349_000000372052_00130_24232_2955.N1	18-OCT-2006 23:23:49	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	24232	No
222	GOM_NL__2PRFIN20061018_232715_000000382052_00130_24232_2956.N1	18-OCT-2006 23:27:15	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	24232	No
223	GOM_NL__2PRFIN20061018_233405_000000342052_00130_24232_2957.N1	18-OCT-2006 23:34:05	Bright	34.000	96	68Del Leo	2.5600	9300.0	68	24232	No
224	GOM_NL__2PRFIN20061018_235337_000000372052_00130_24232_2958.N1	18-OCT-2006 23:53:37	Dark	37.000	113	Mu Vel	2.6920	5000.0	74	24232	No
225	GOM_NL__2PRFIN20061018_235750_000000402052_00131_24233_2945.N1	18-OCT-2006 23:57:50	Dark	40.000	46	Del Vel	1.9540	10600.	80	24233	No

3. Quality information per product

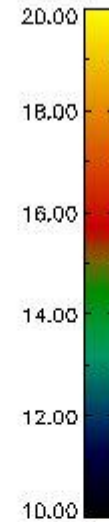
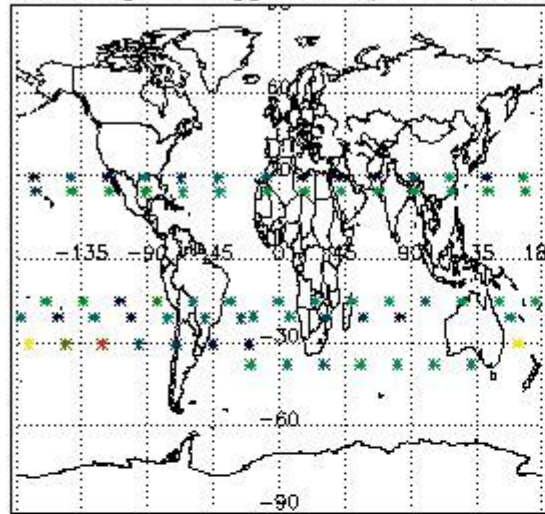
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

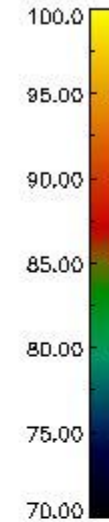
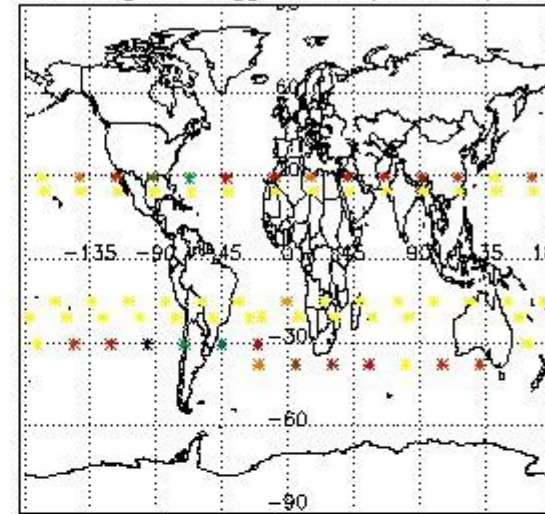


3.2 Plot quality information per product (world map)

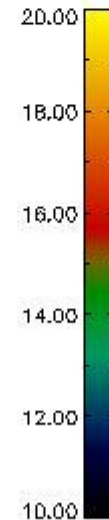
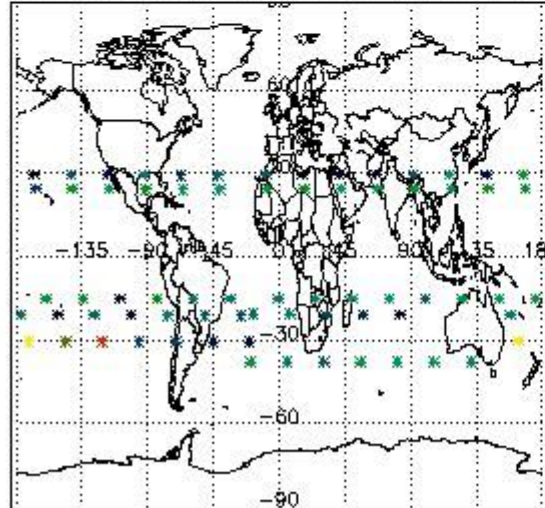
Percentage of flagged data per O3 profile



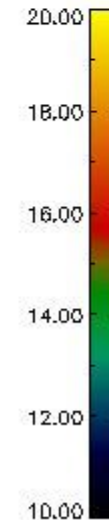
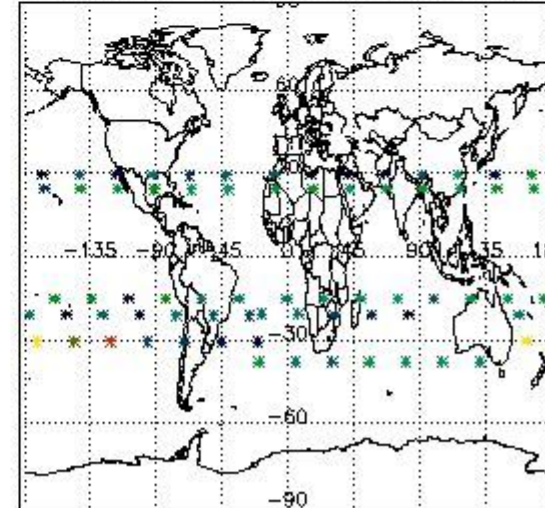
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

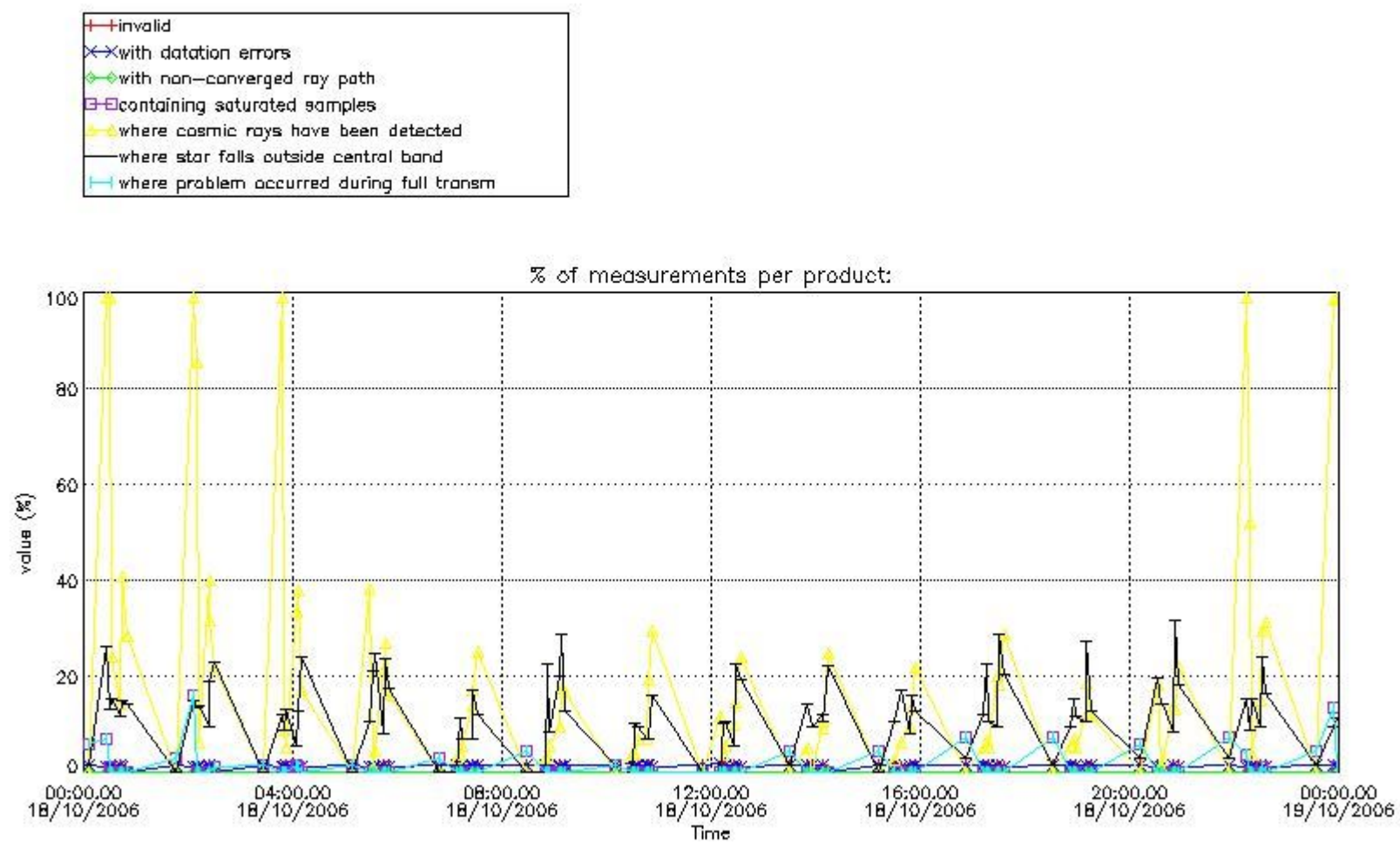


4. Level 1 quality information per product

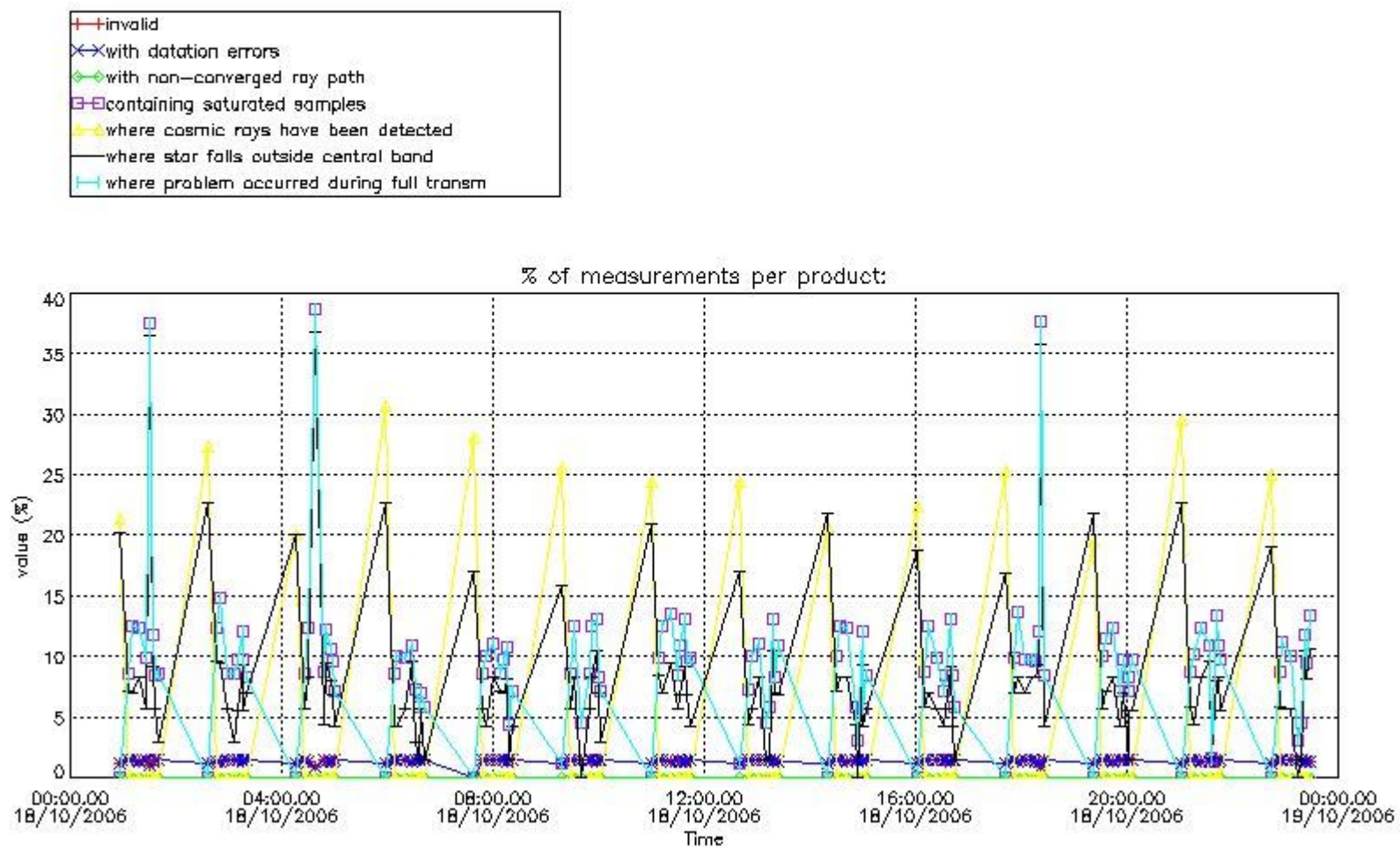
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



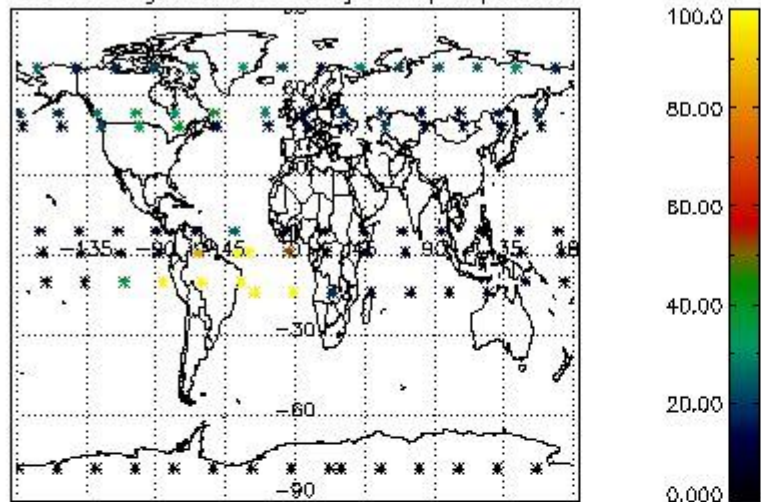
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



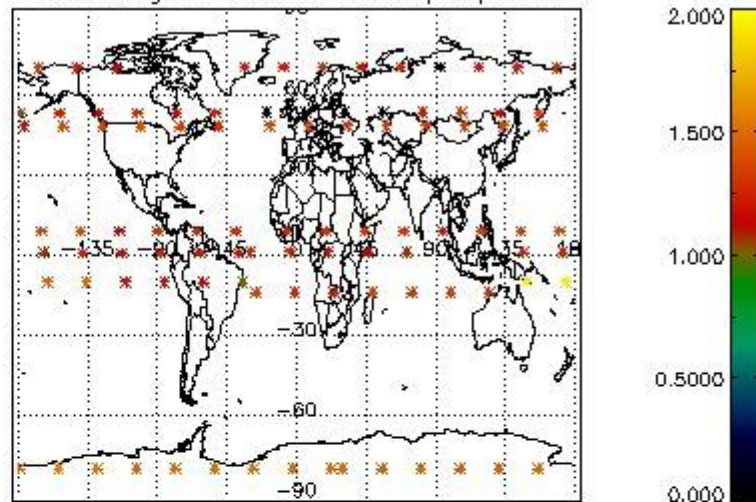
4.2 Plot quality information per product coming from level 1b processing (world map)

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

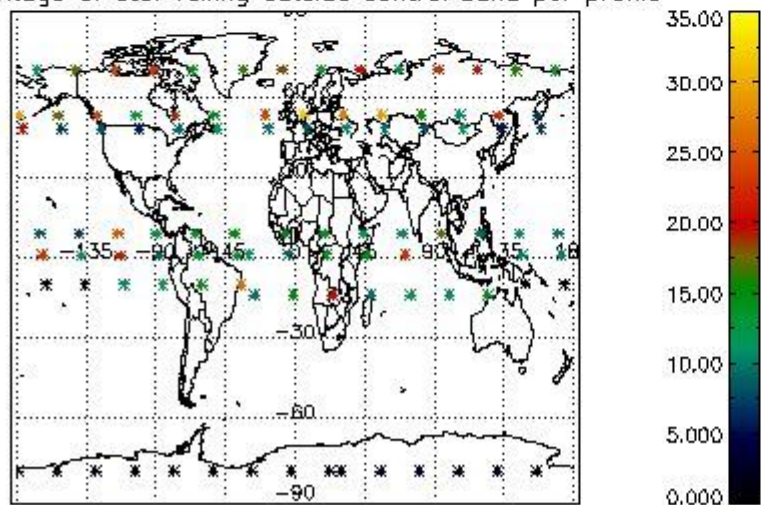
Percentage of cosmic ray hits per profile



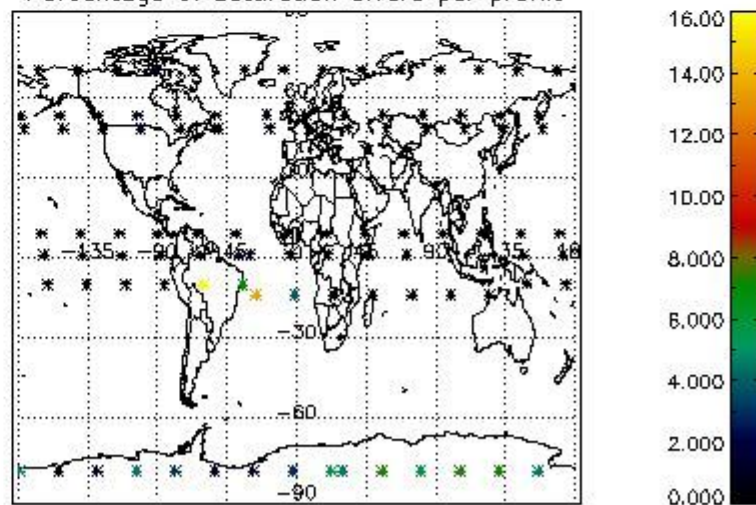
Percentage of datation errors per profile



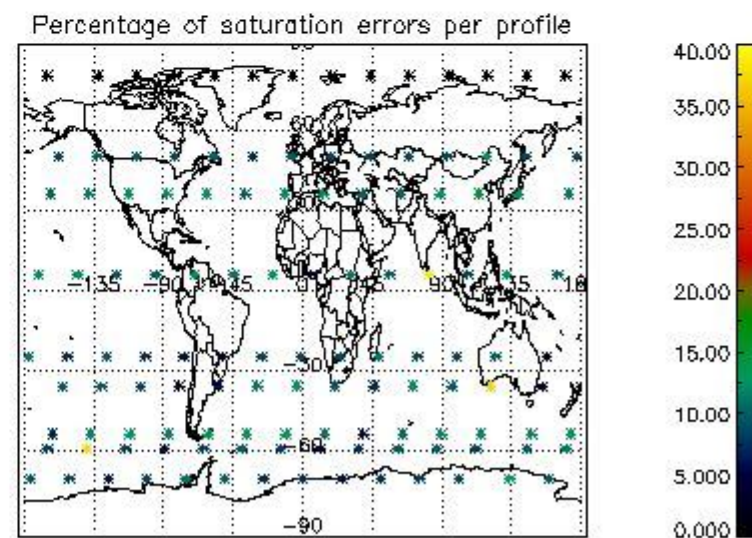
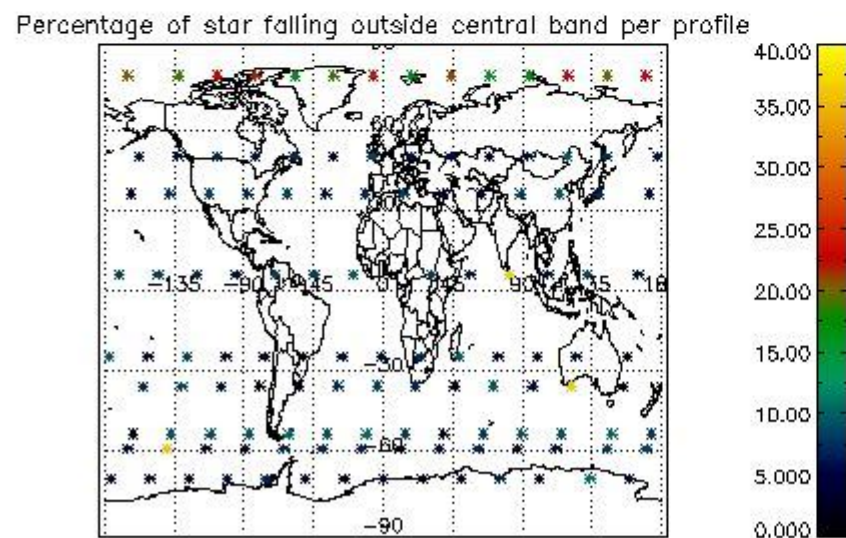
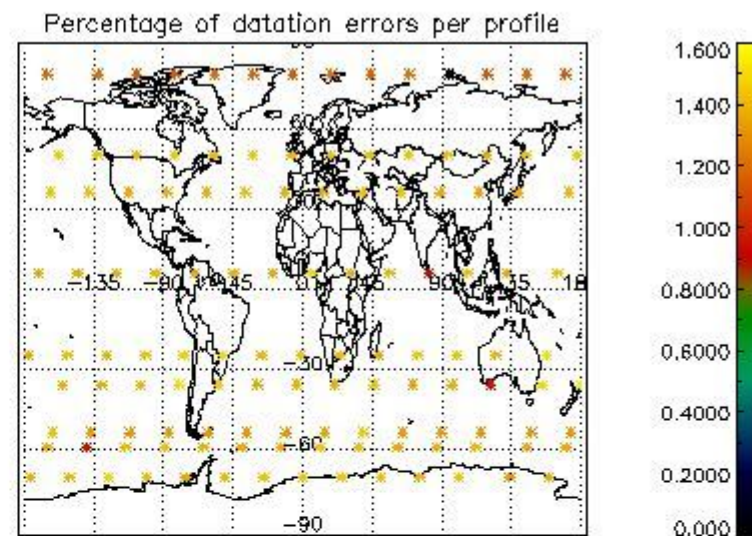
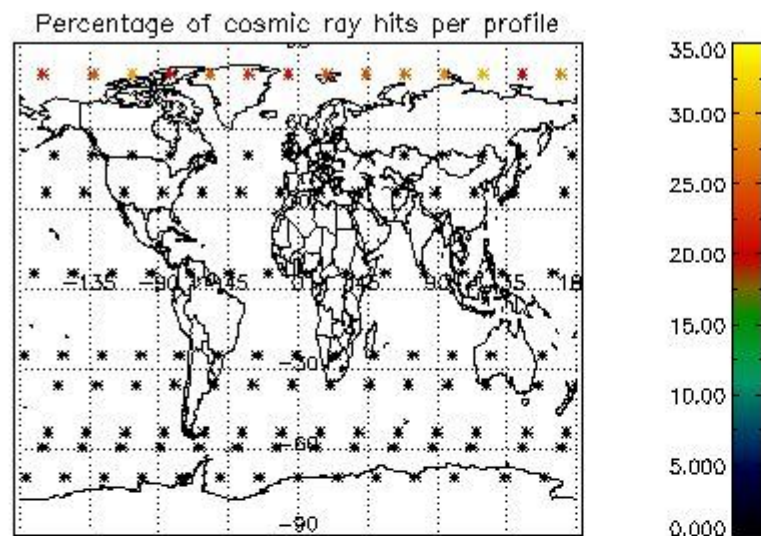
Percentage of star falling outside central band per profile



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

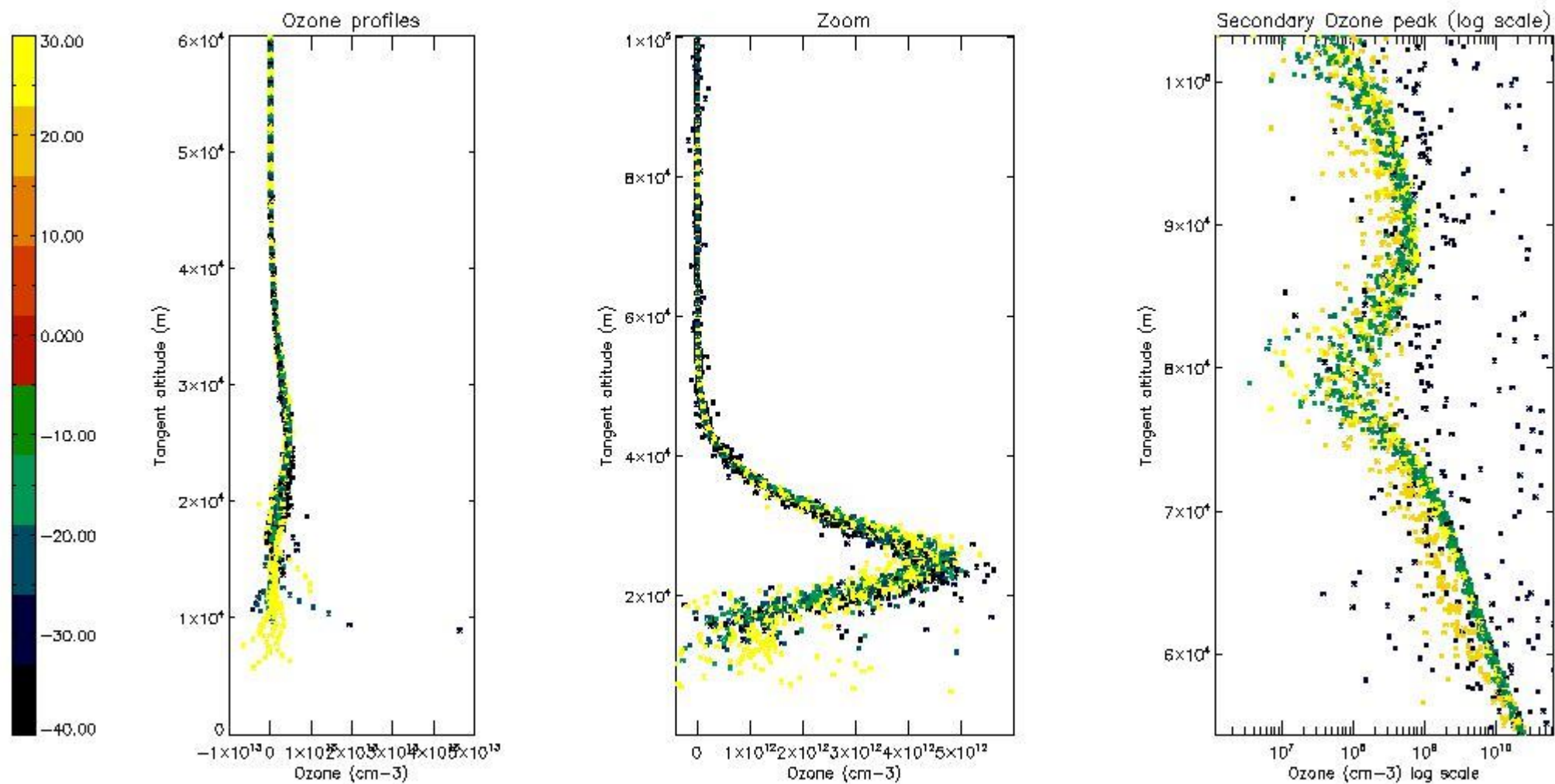
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	18

STD < 10	14
STD < 5	9

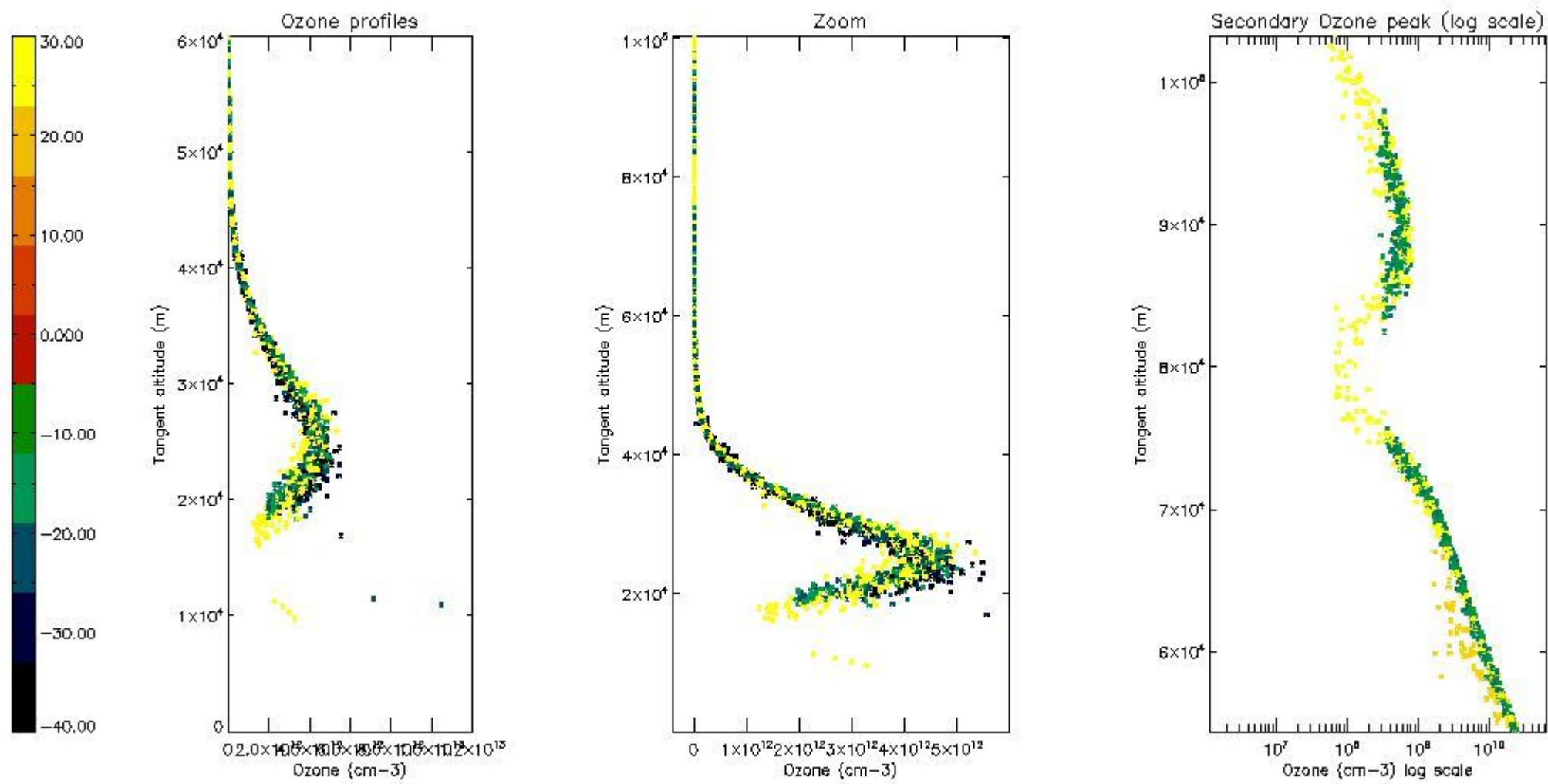
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



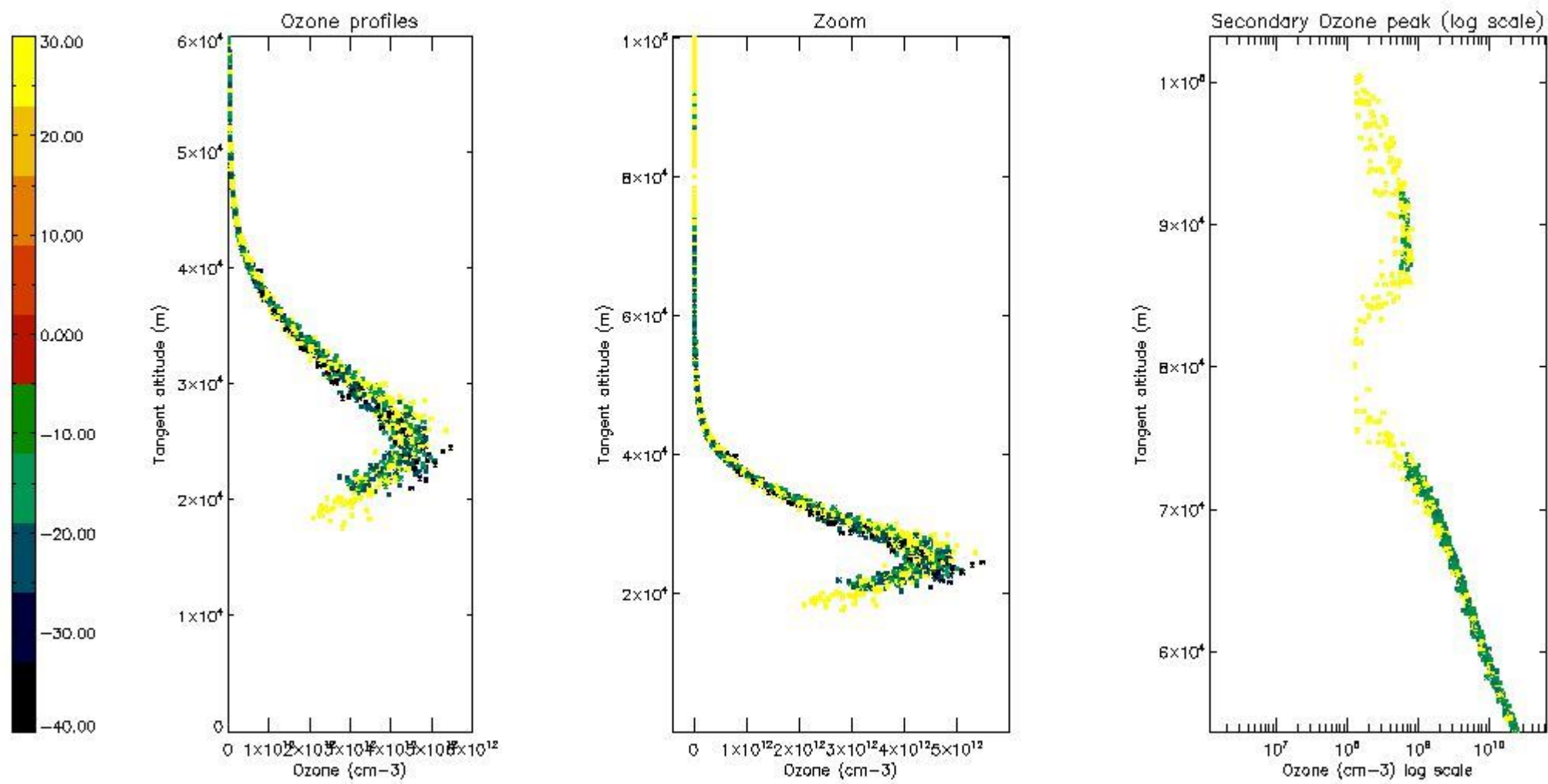
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



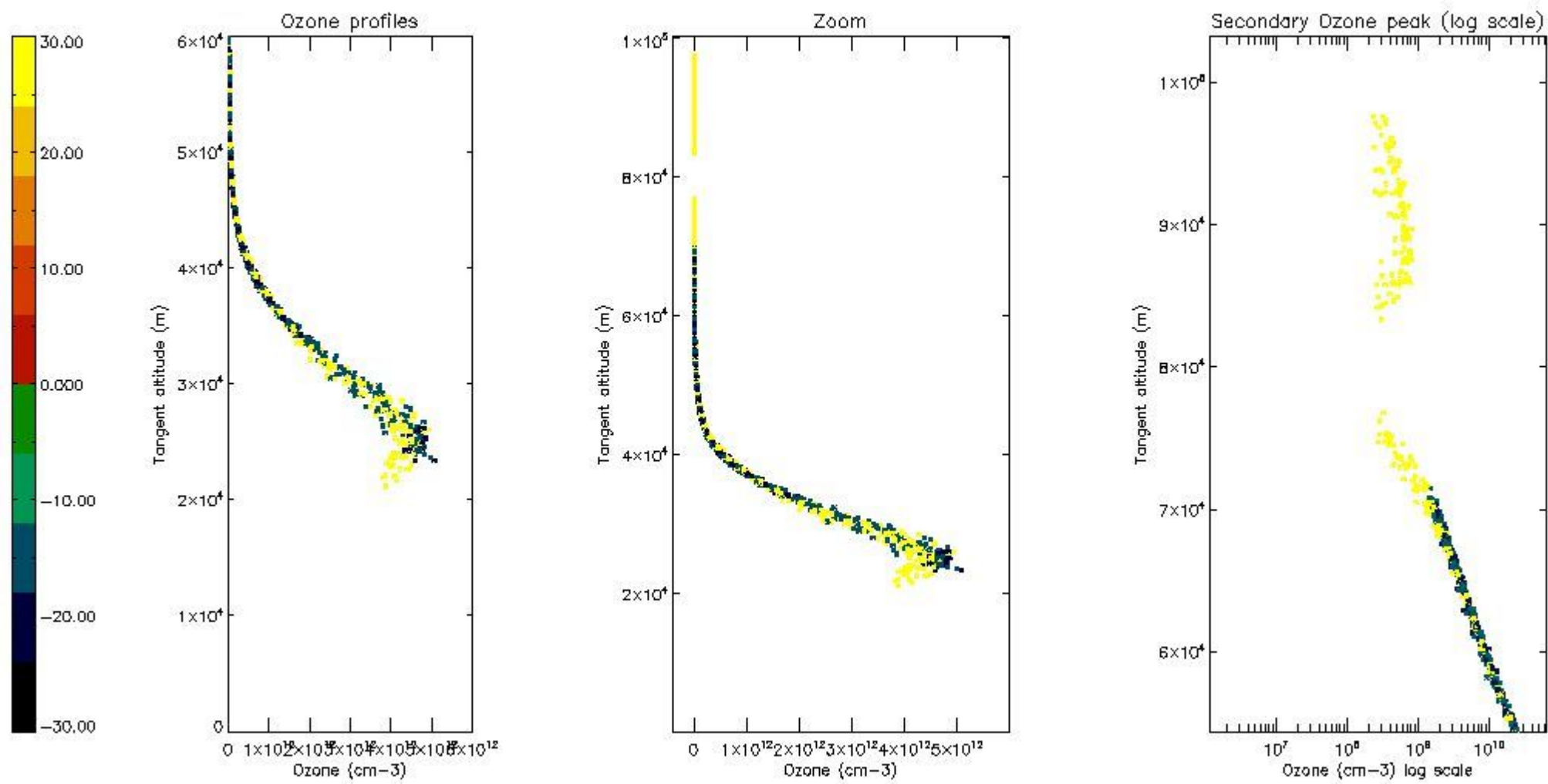
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



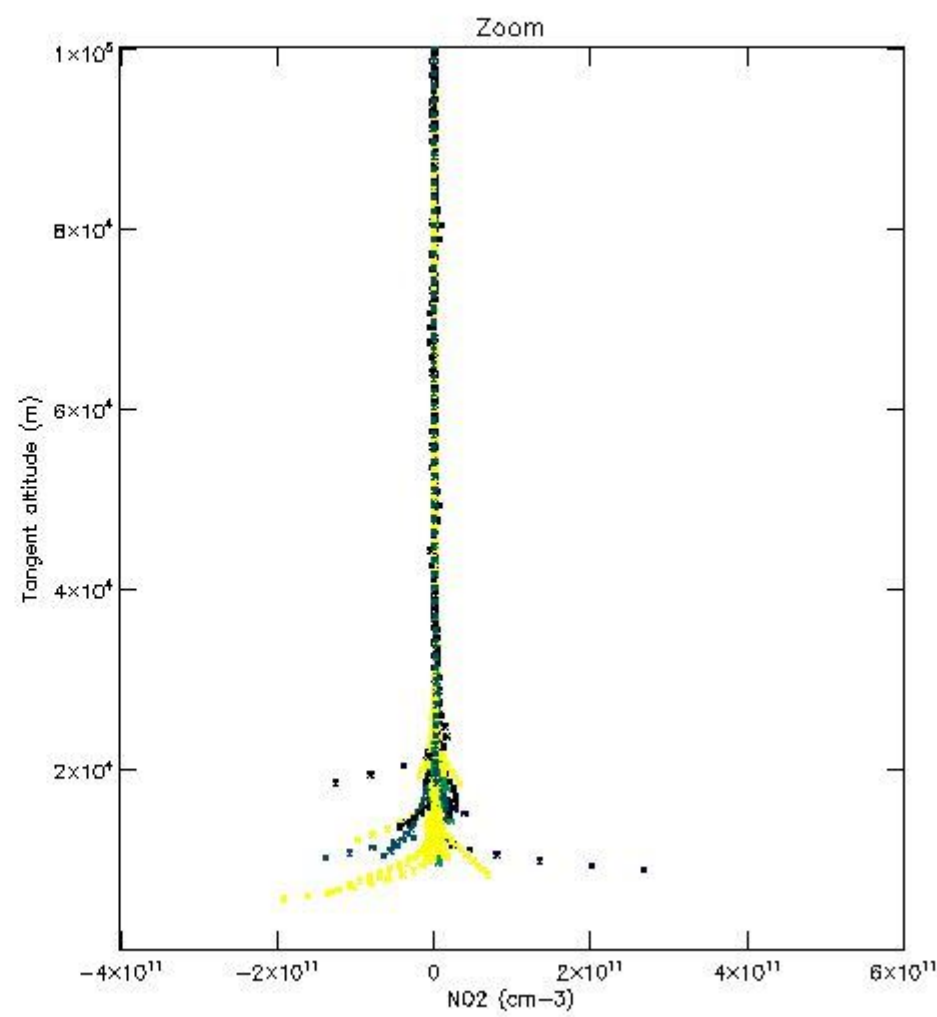
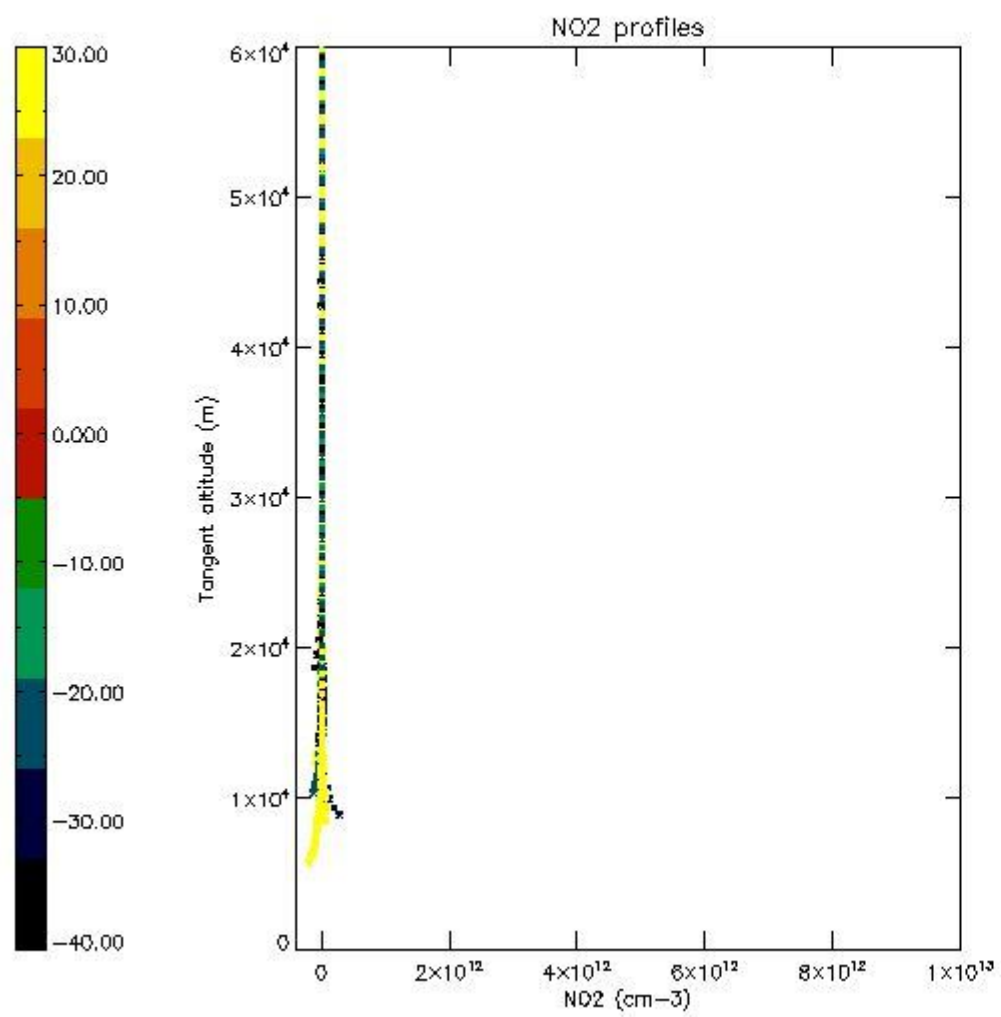
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



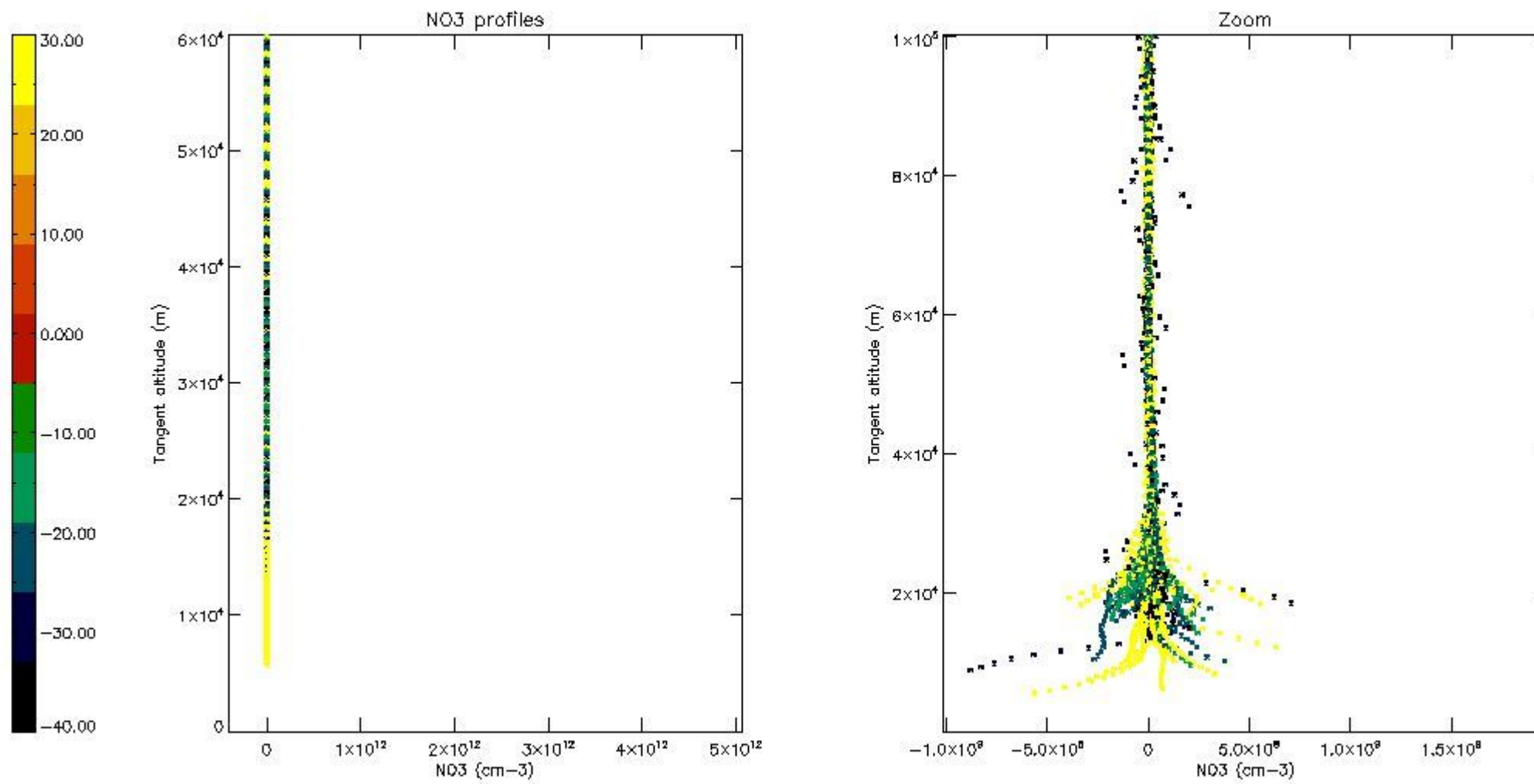
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

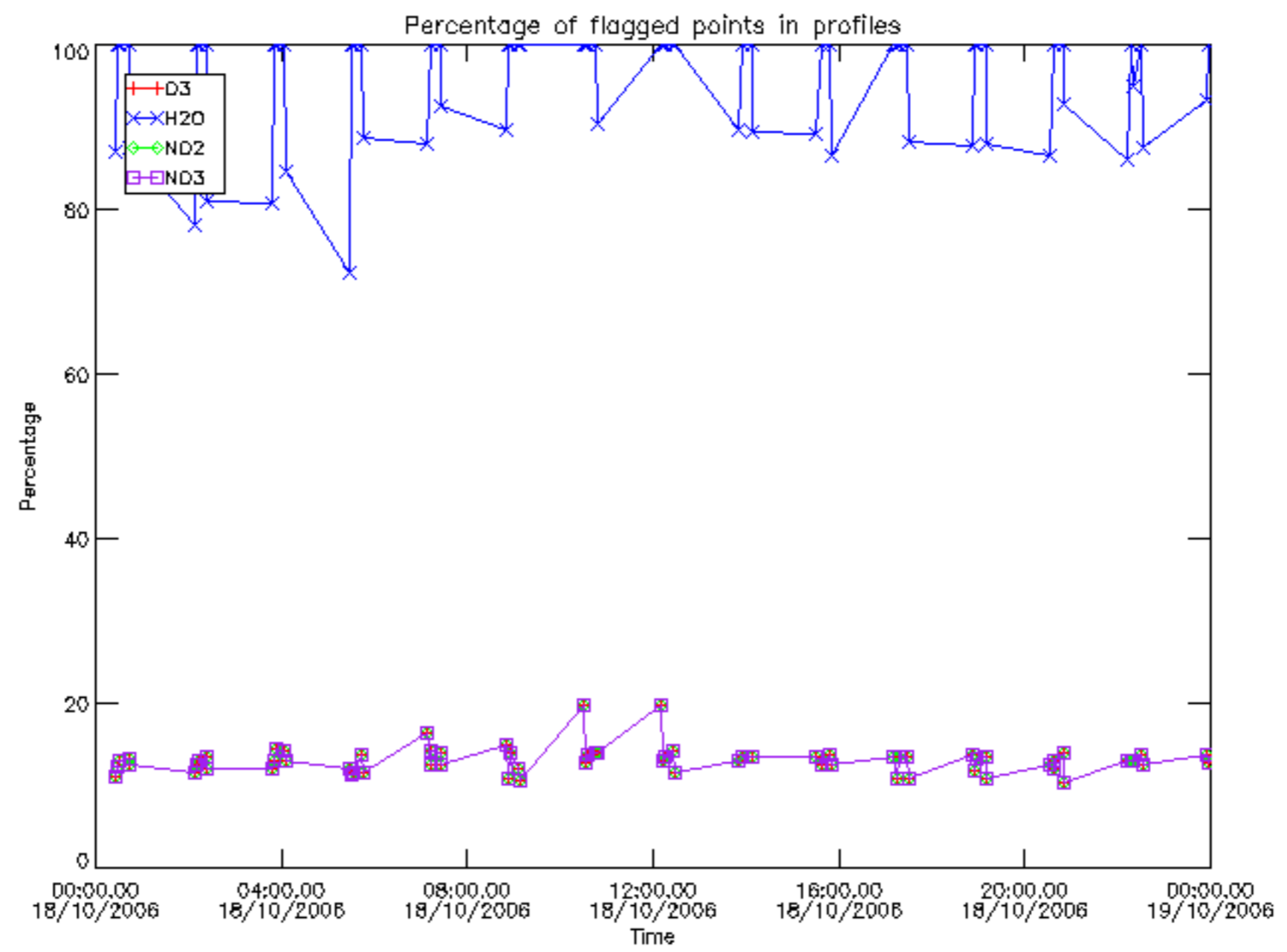
The colorbar represents the latitude.



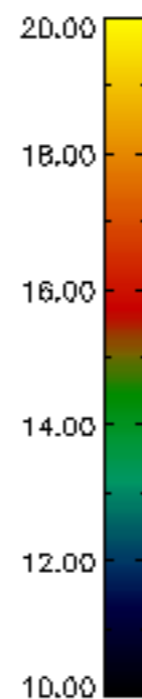
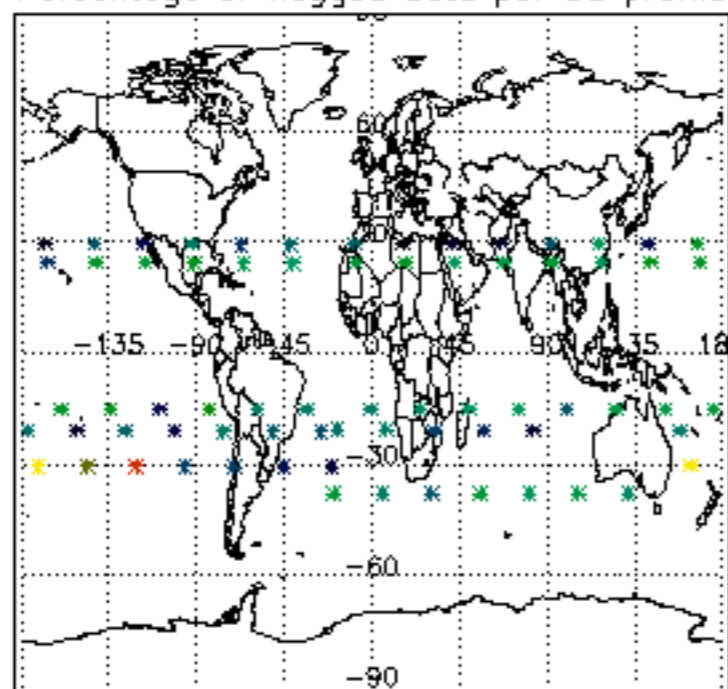
6. Auxiliary Data Files used for the production reported in section 2

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.

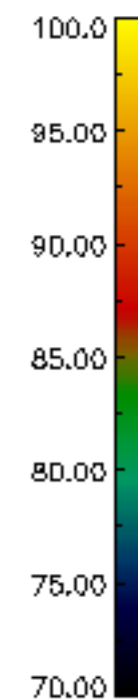
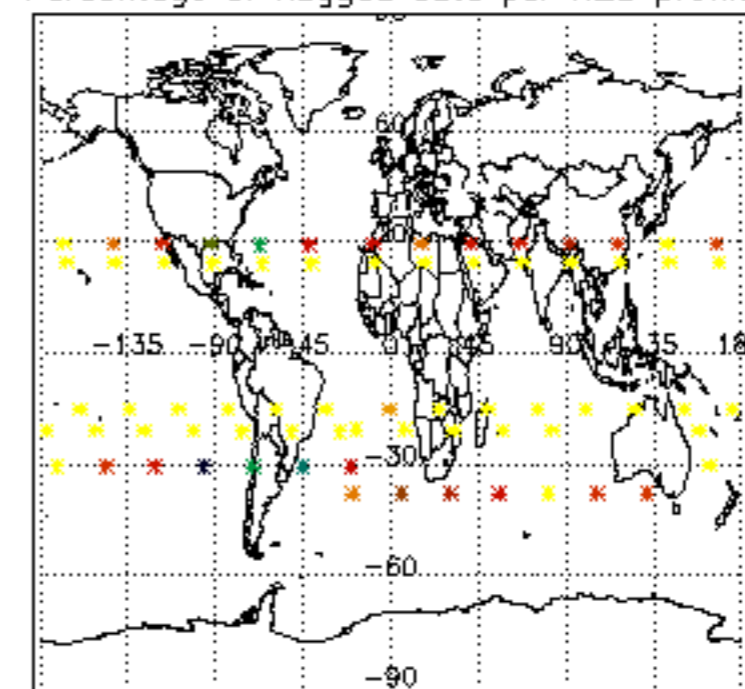
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	18-OCT-2006 00:05:39
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	18-OCT-2006 00:05:39
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	18-OCT-2006 00:05:39



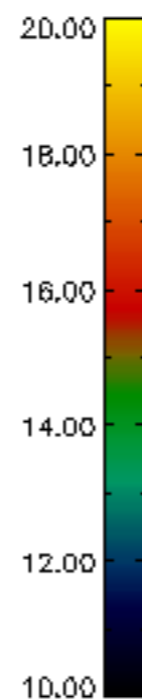
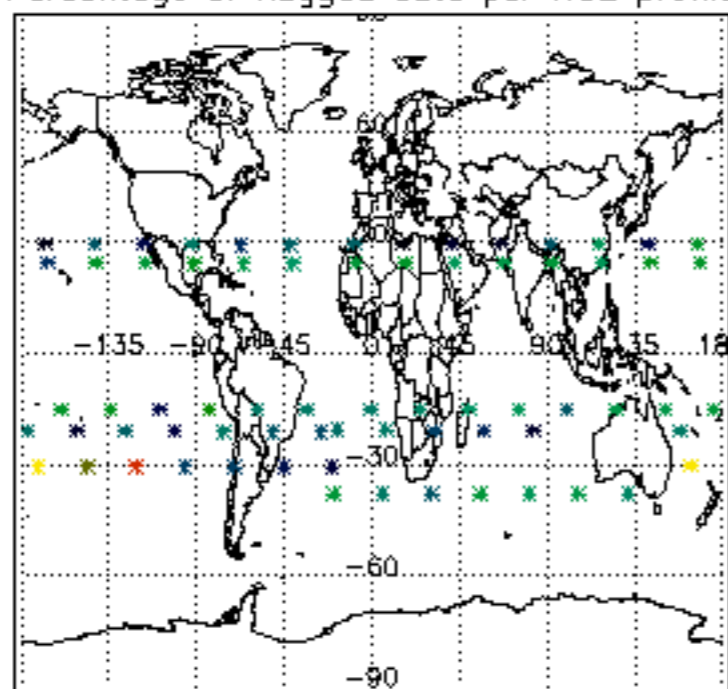
Percentage of flagged data per D3 profile



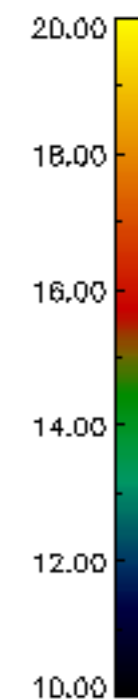
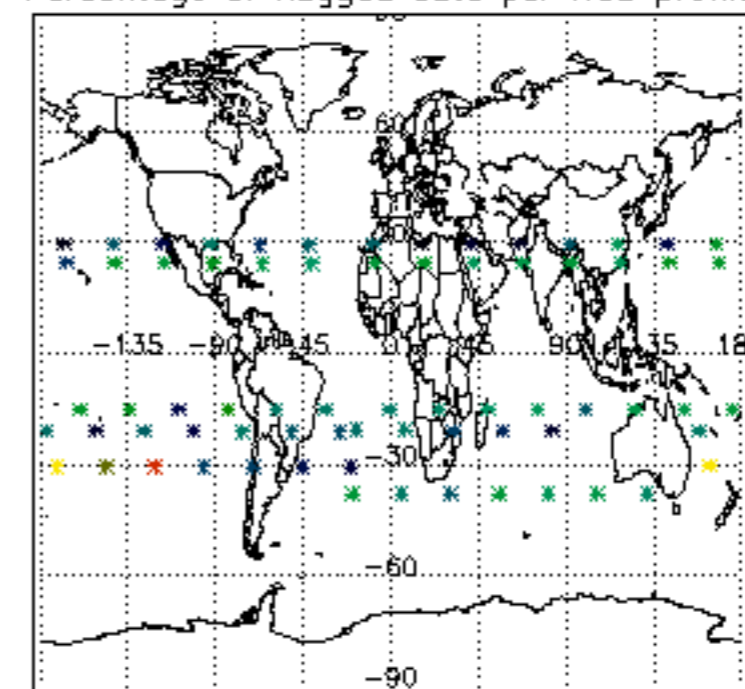
Percentage of flagged data per H2O profile

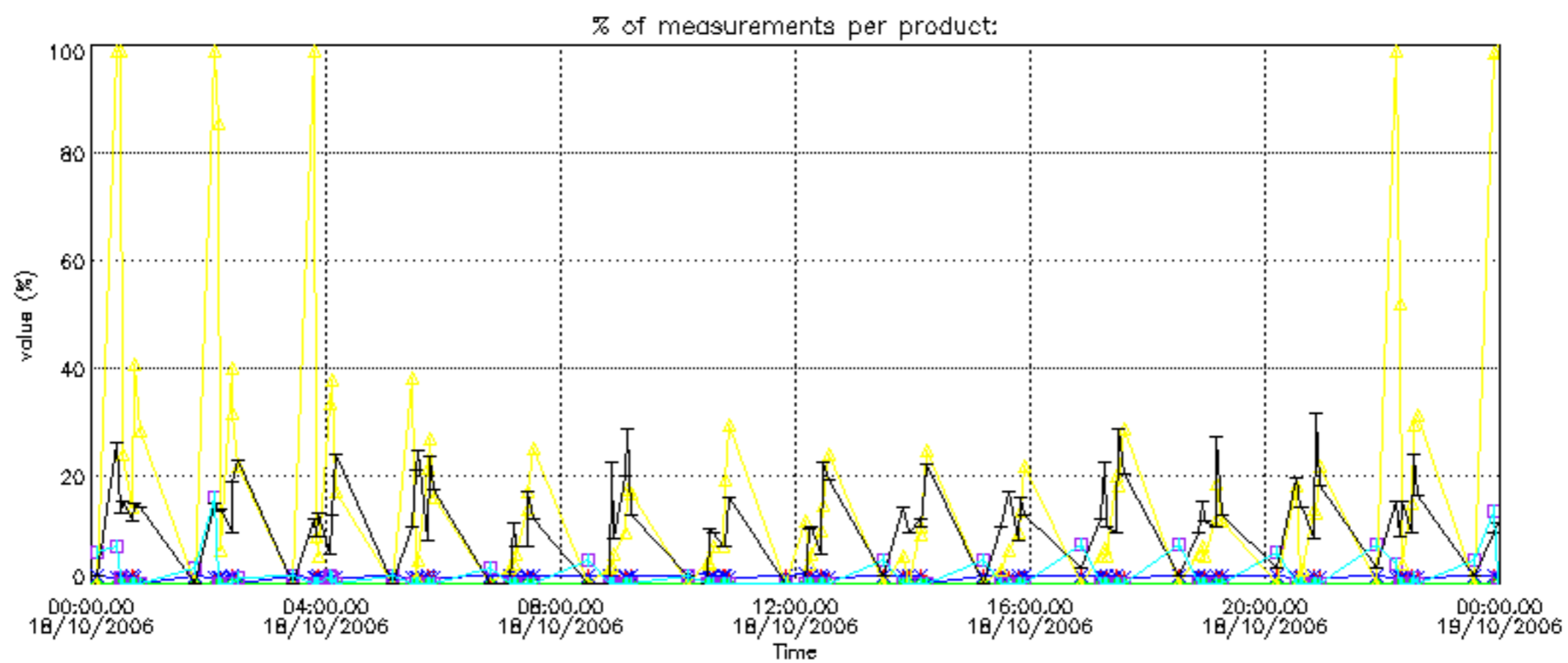
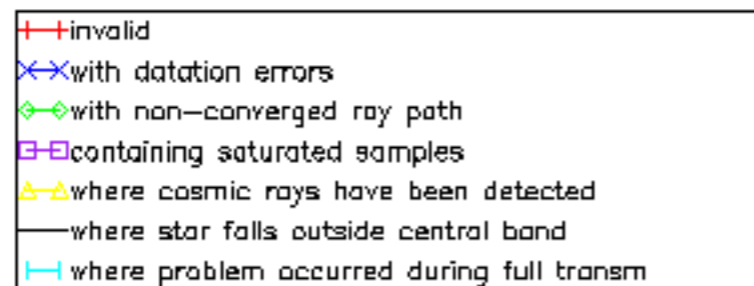


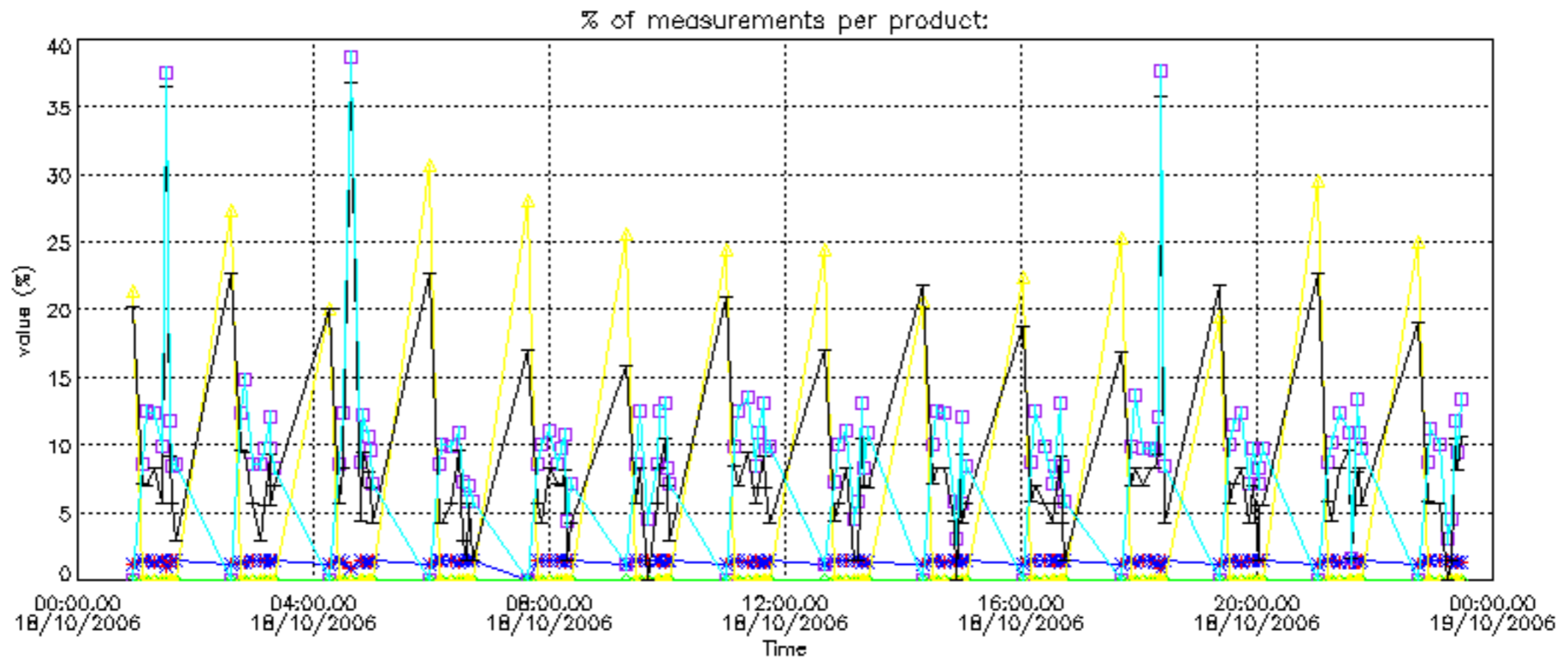
Percentage of flagged data per NO2 profile



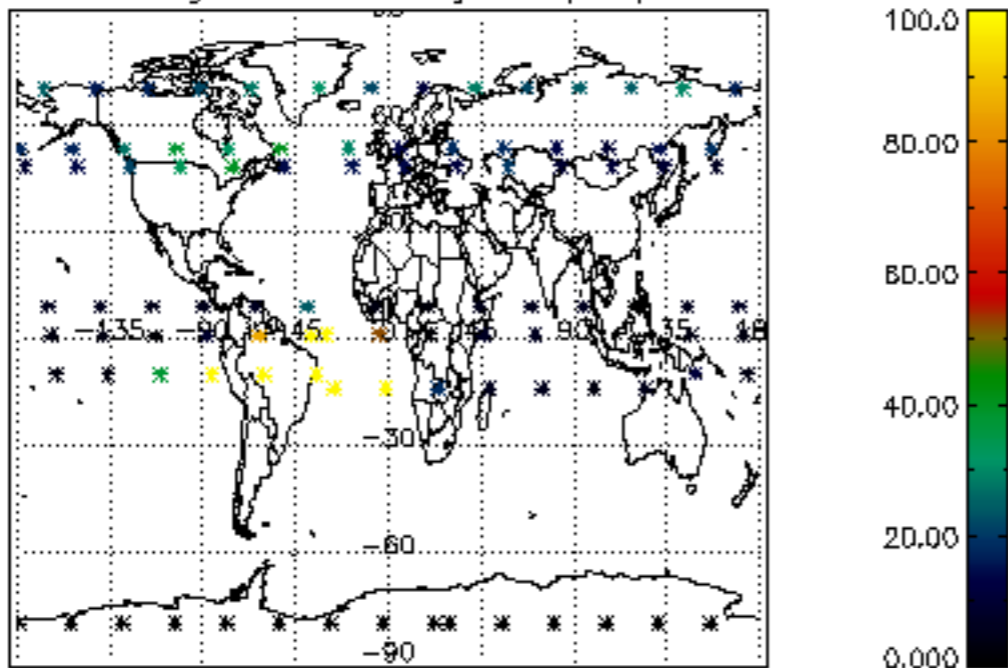
Percentage of flagged data per NO3 profile



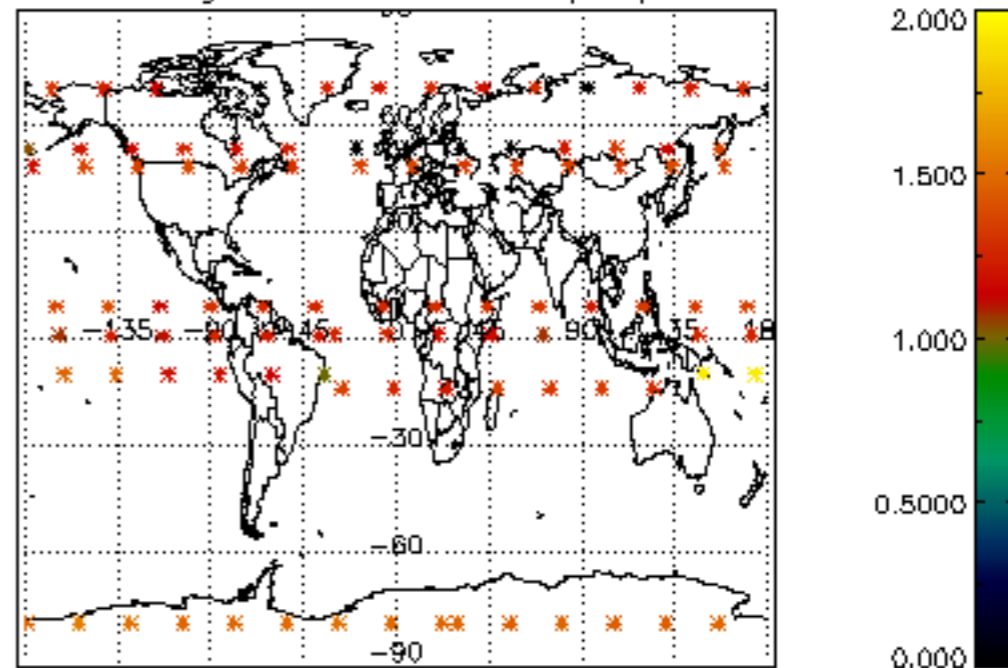




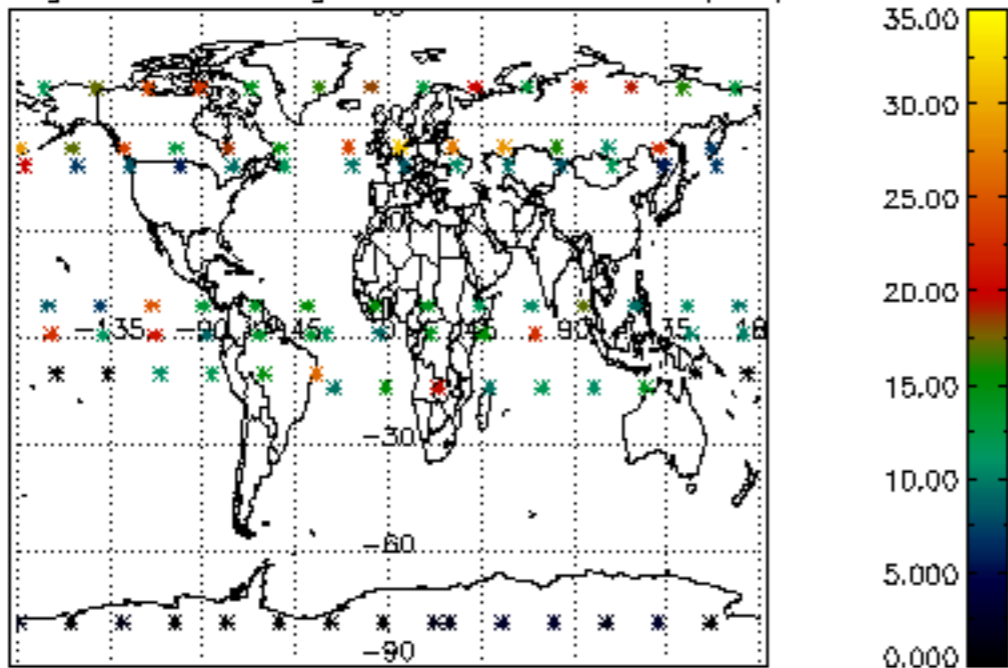
Percentage of cosmic ray hits per profile



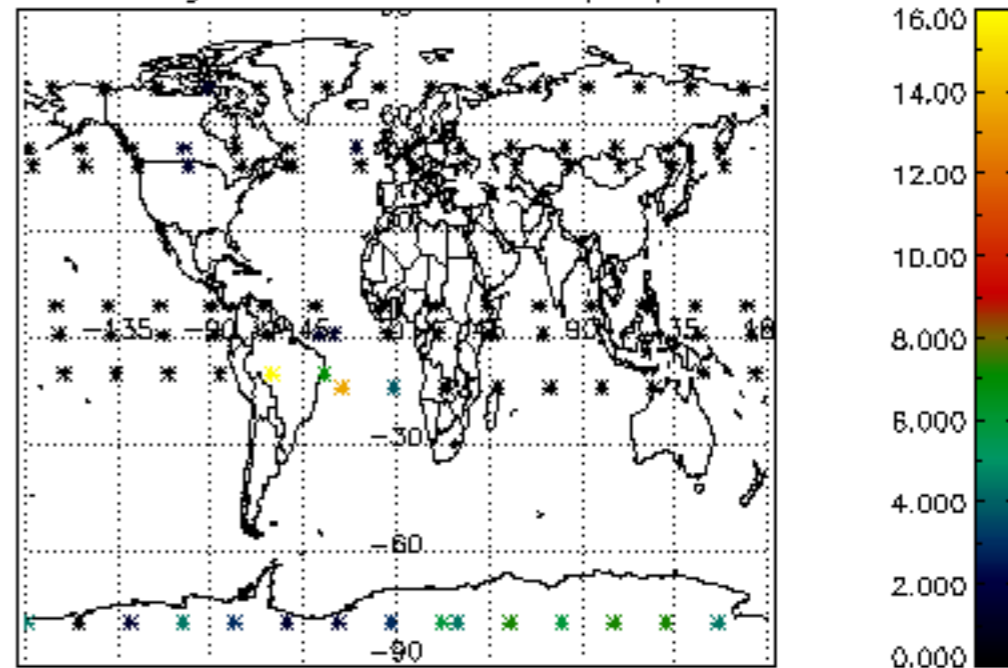
Percentage of datation errors per profile



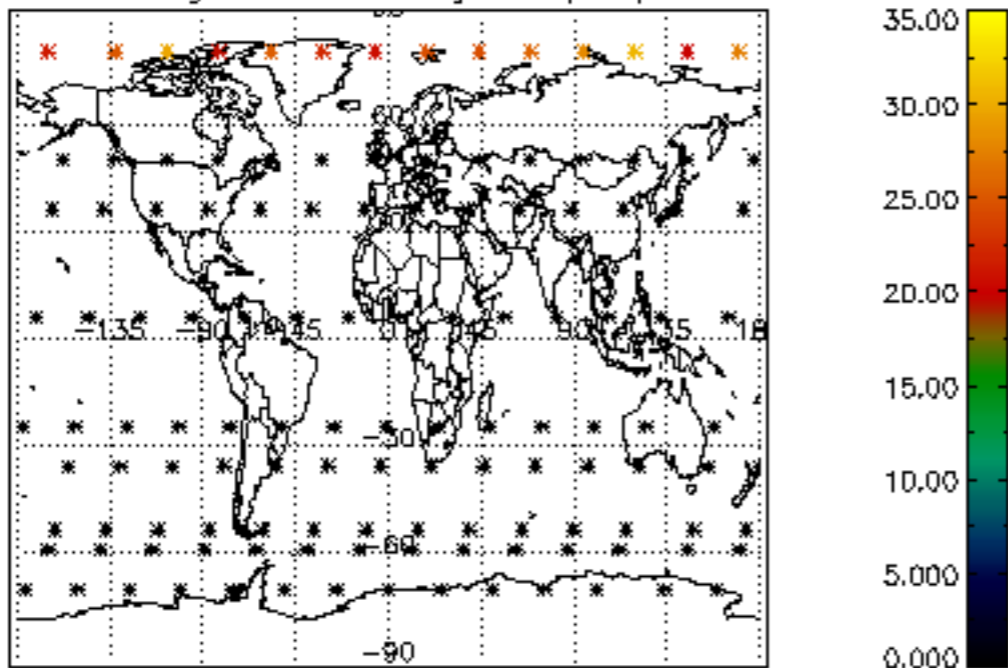
Percentage of star falling outside central band per profile



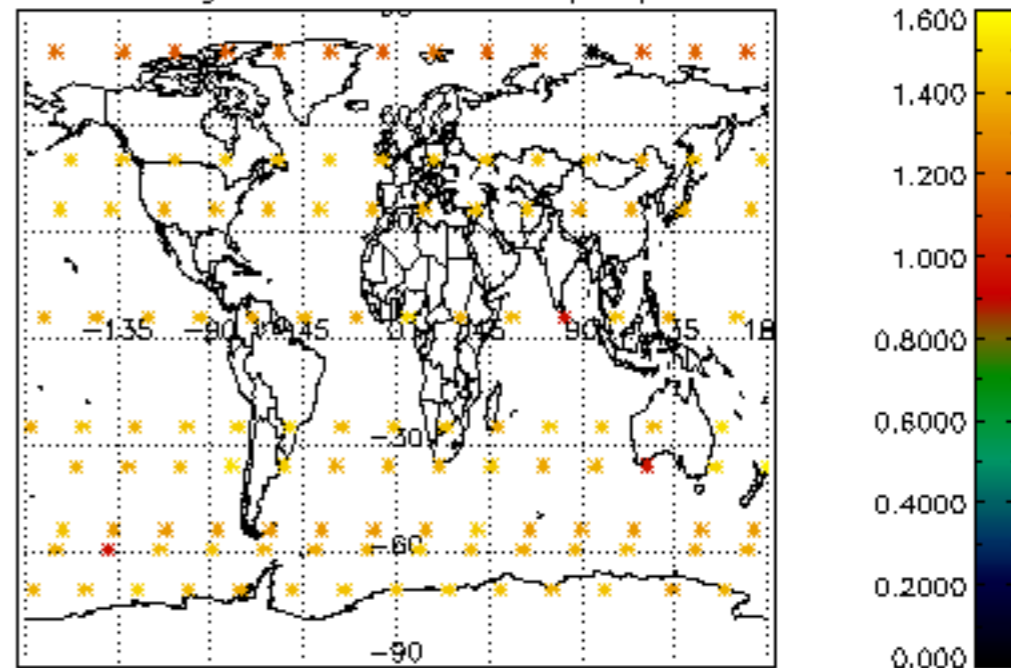
Percentage of saturation errors per profile



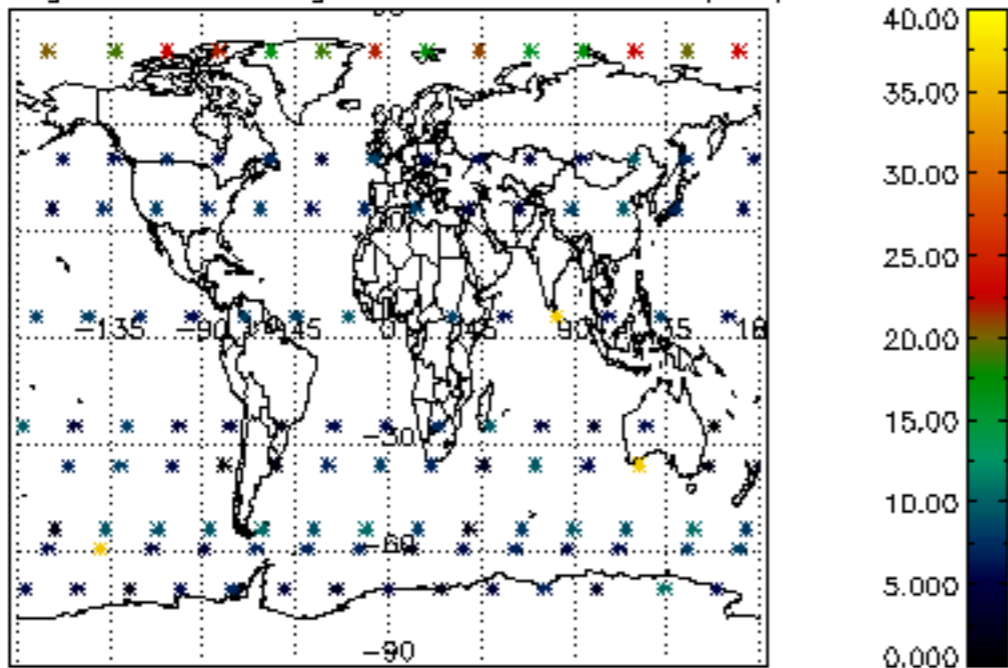
Percentage of cosmic ray hits per profile



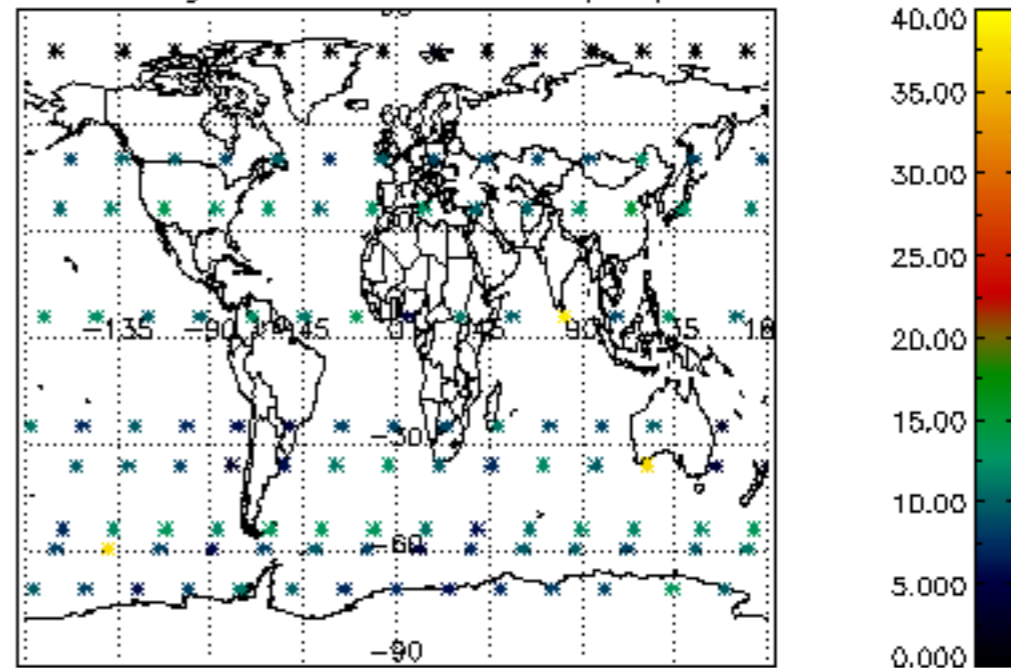
Percentage of datation errors per profile

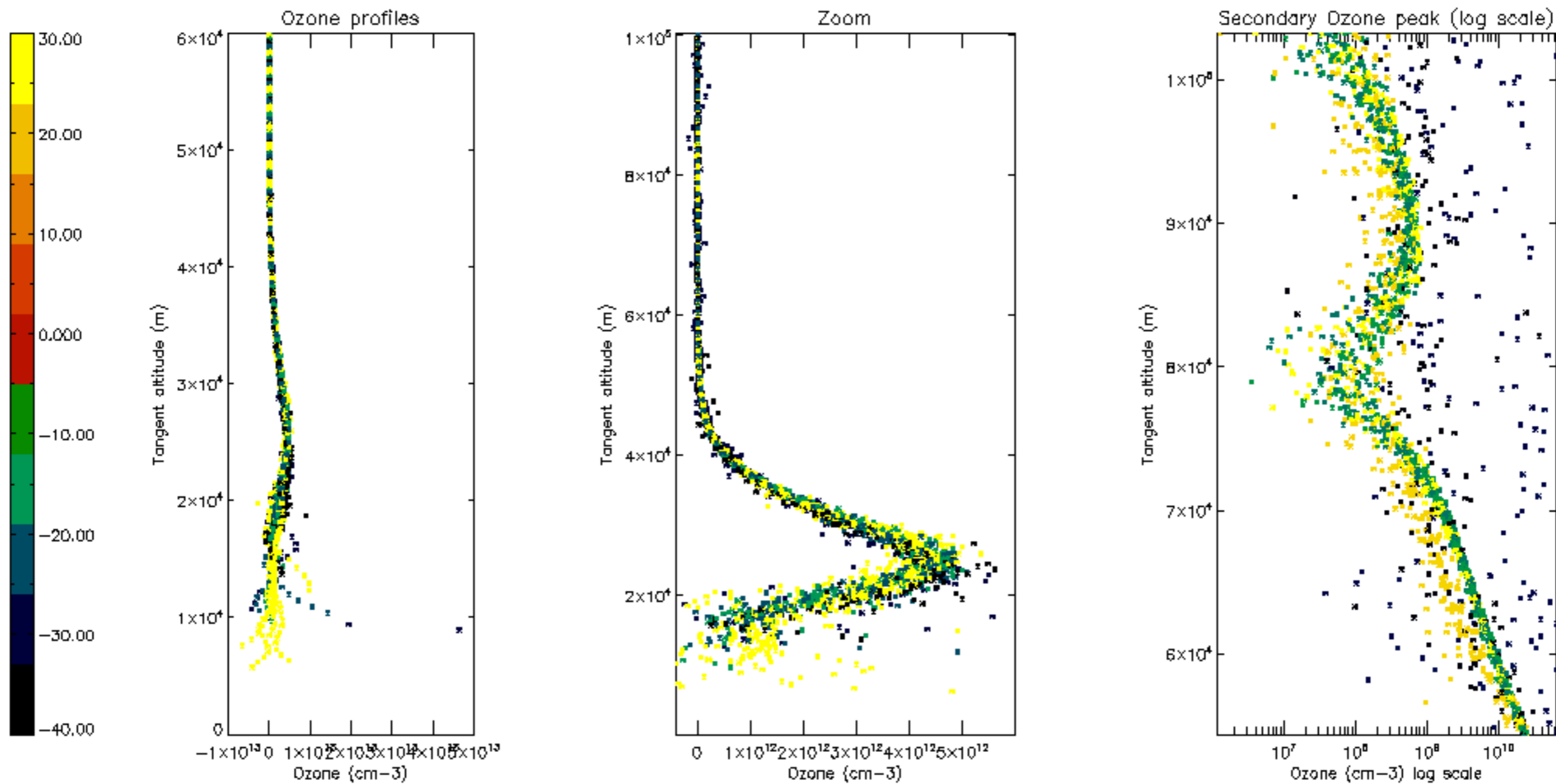


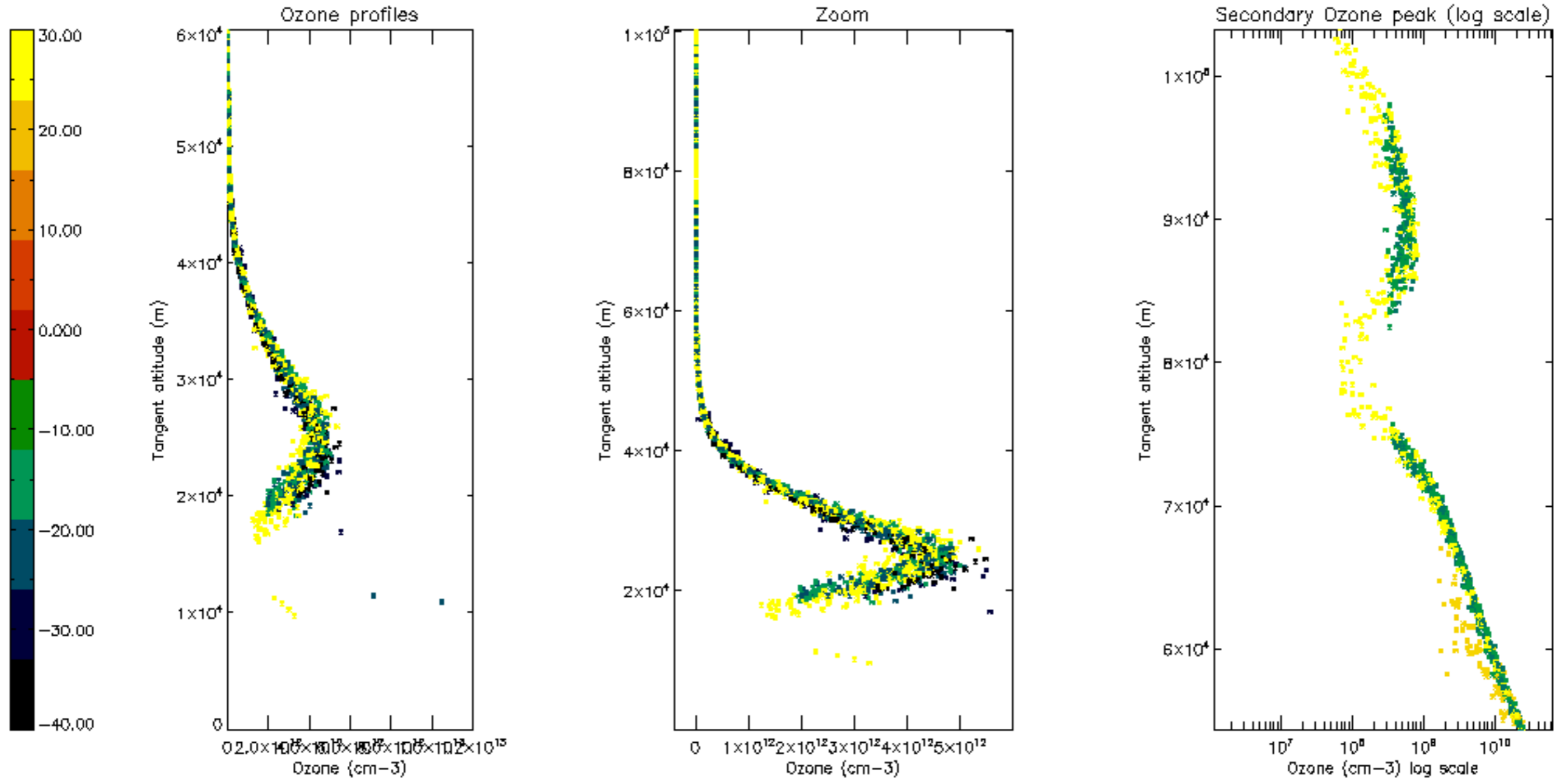
Percentage of star falling outside central band per profile

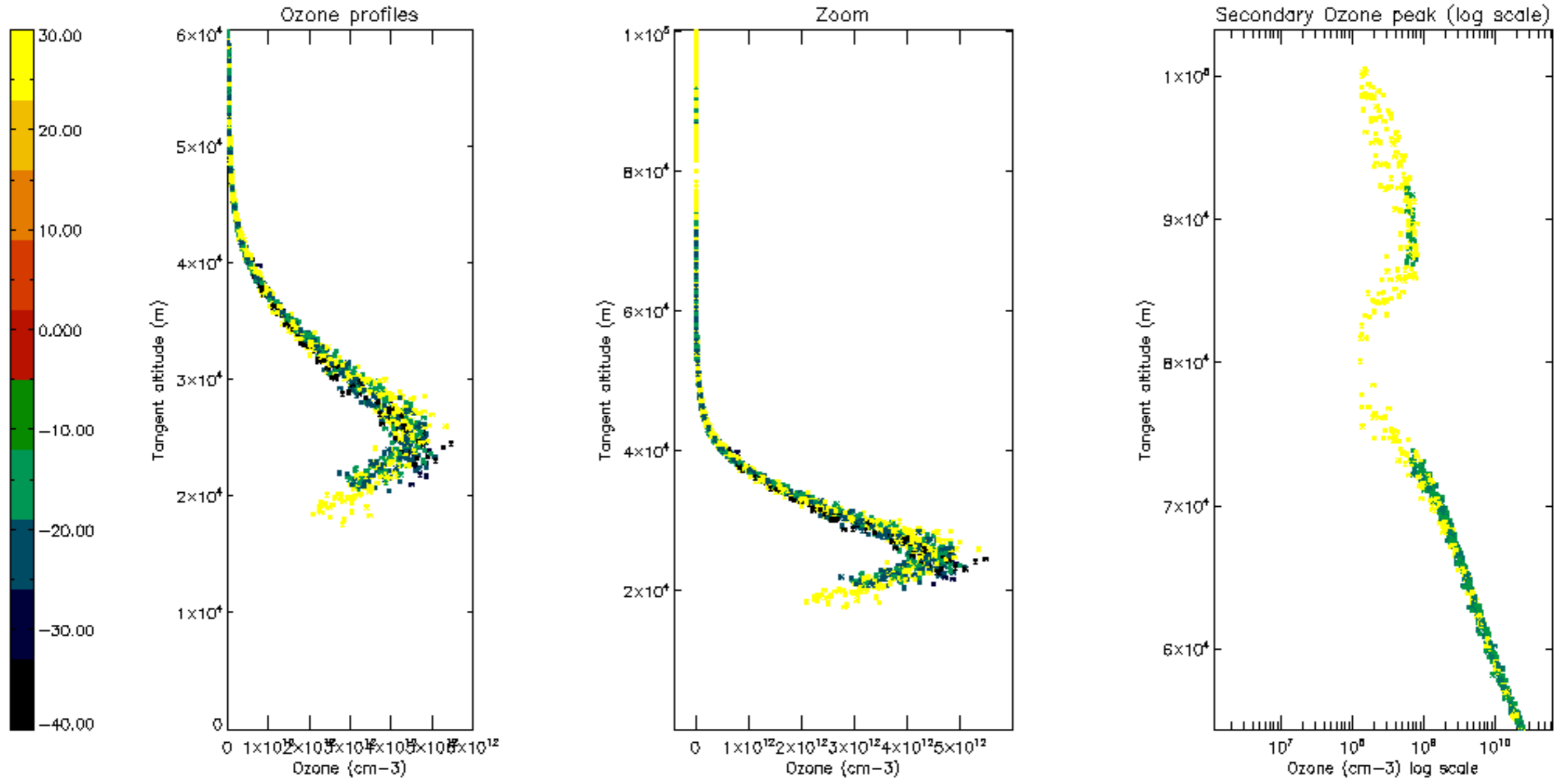


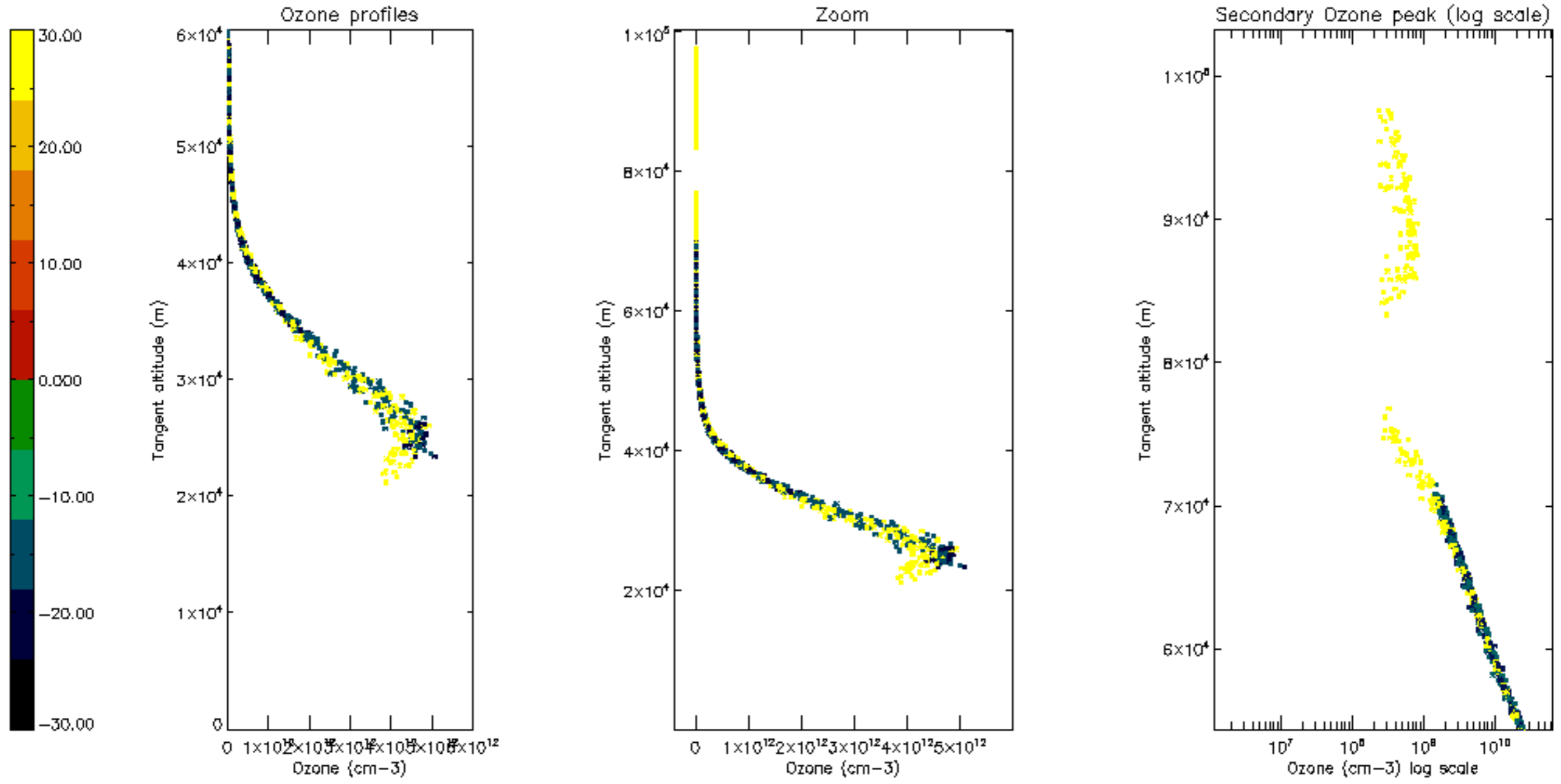
Percentage of saturation errors per profile

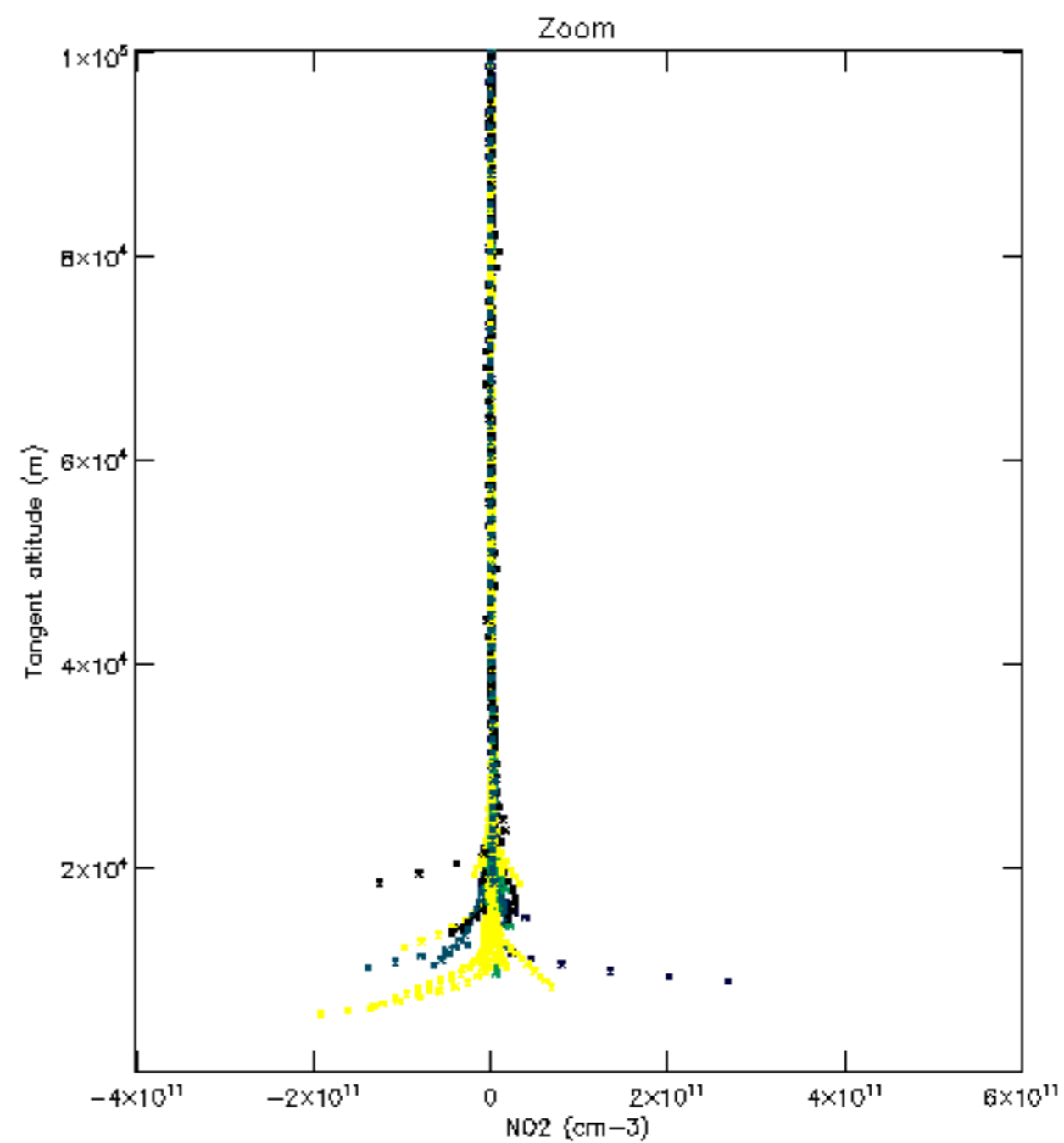
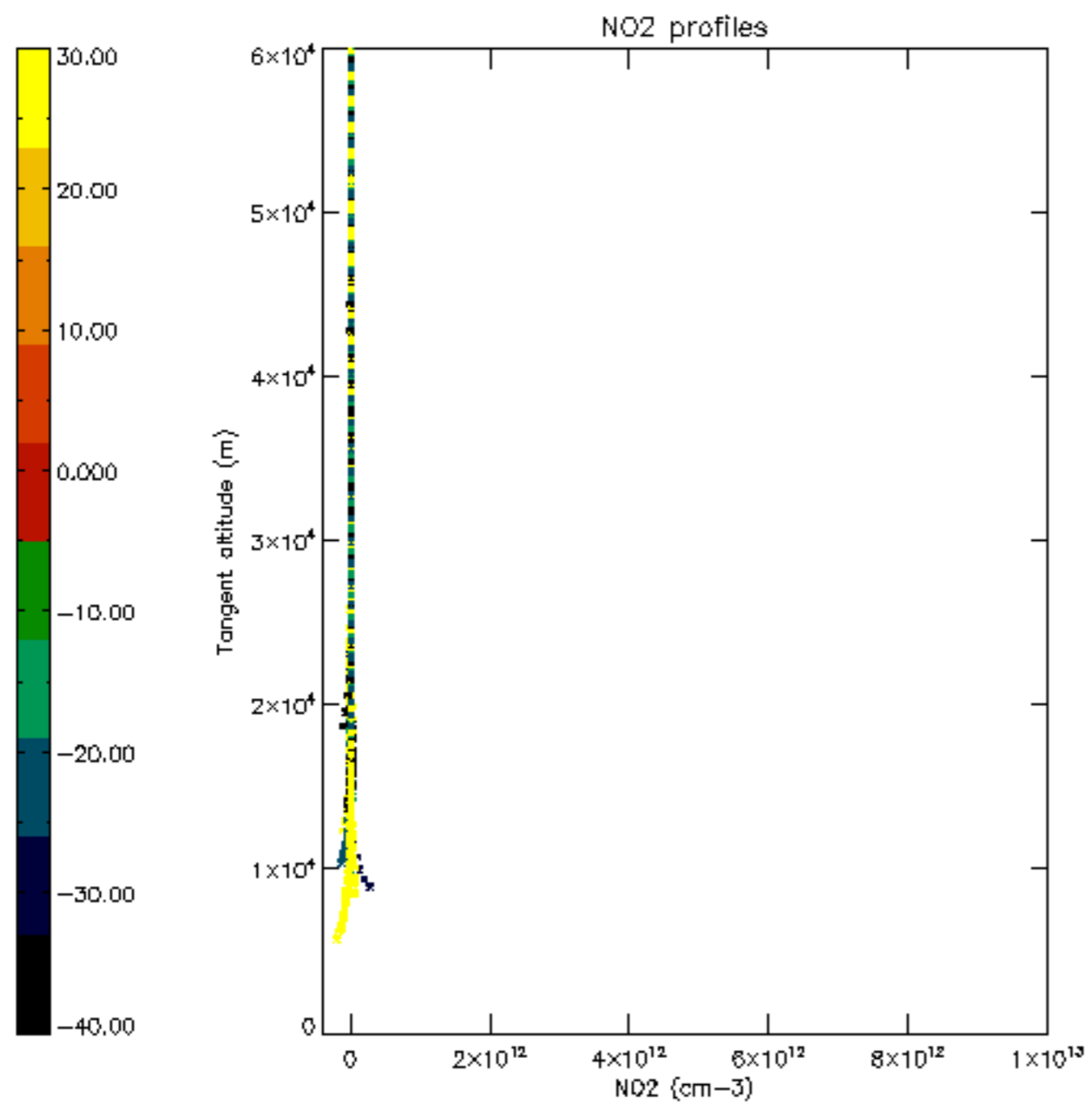


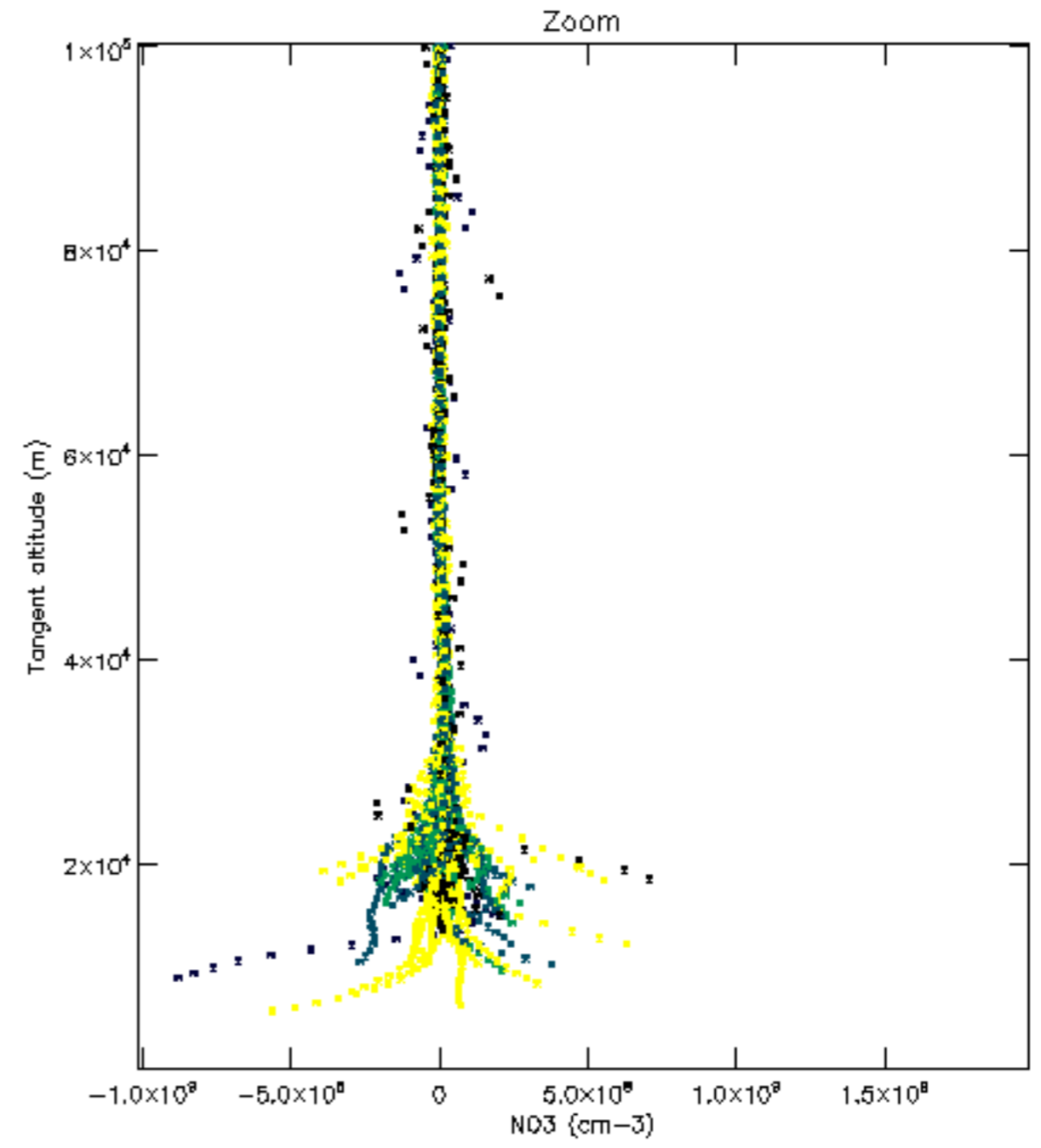
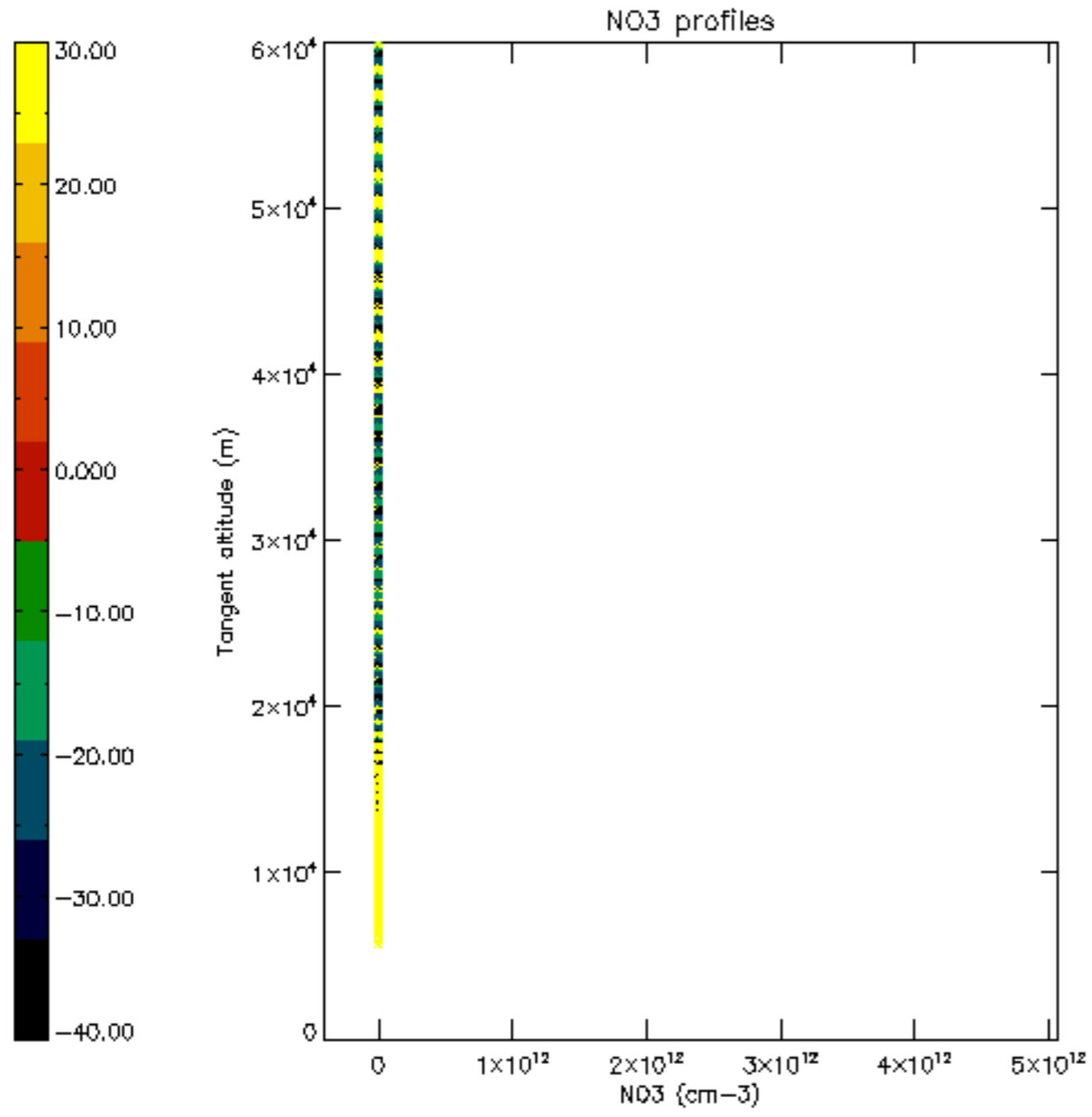


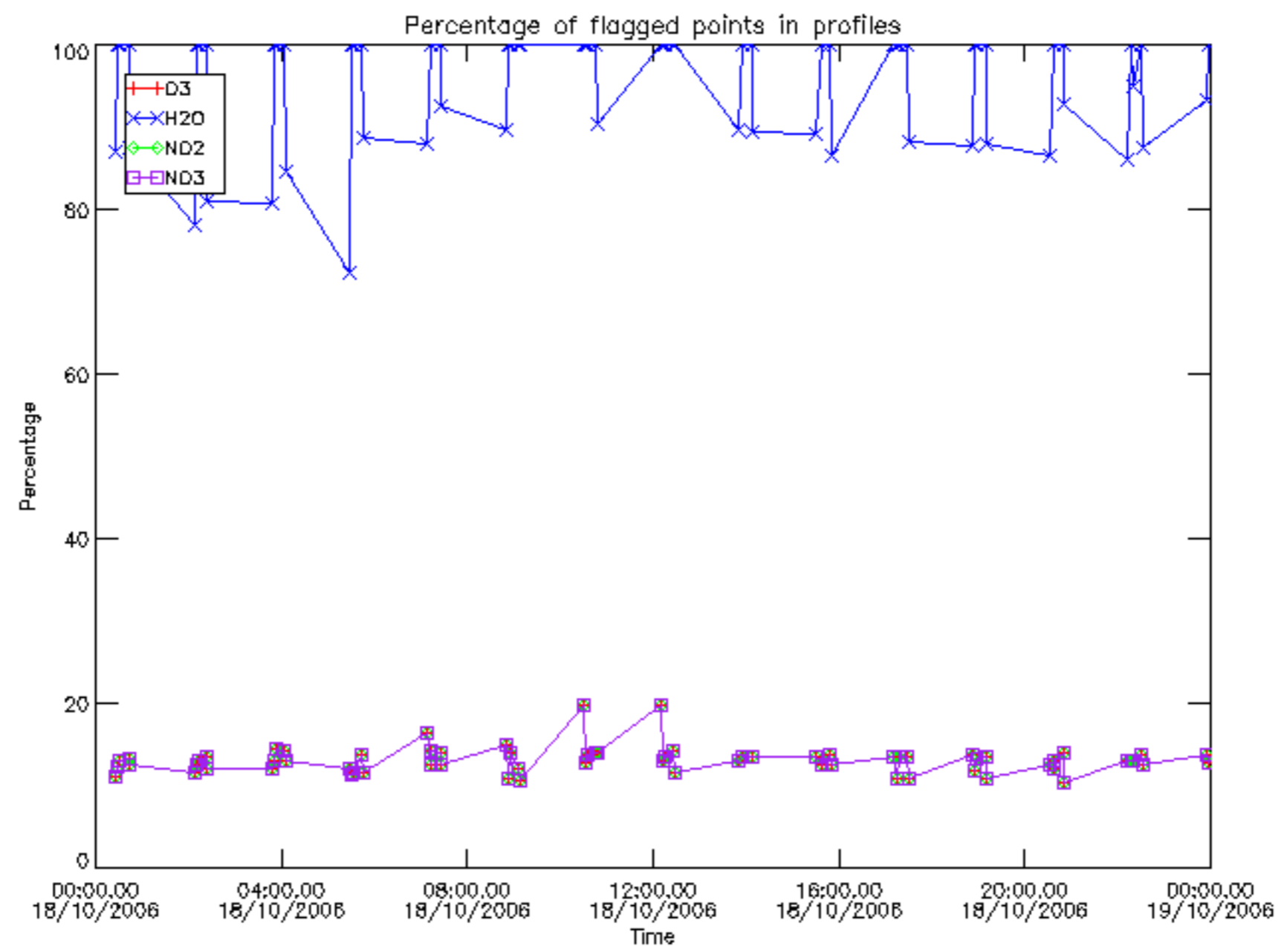




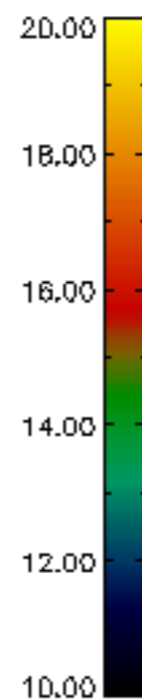
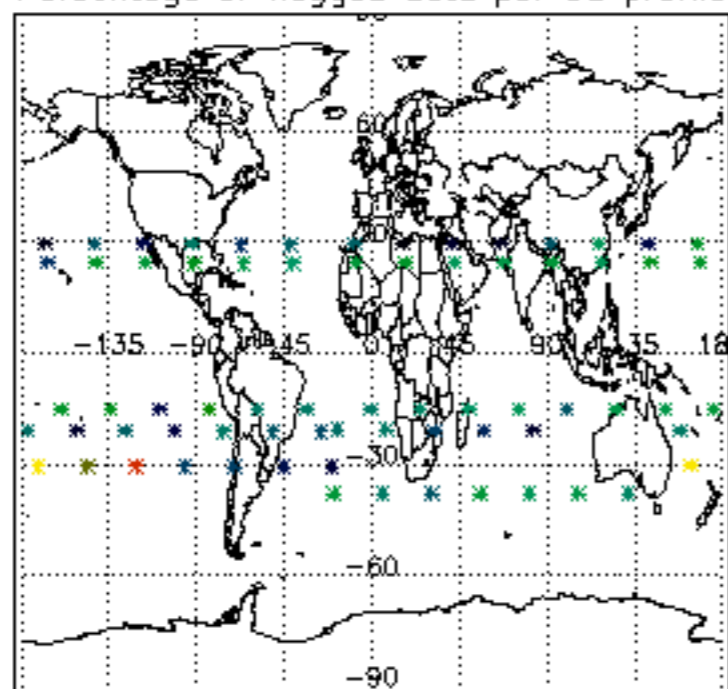




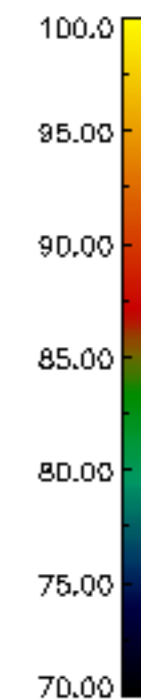
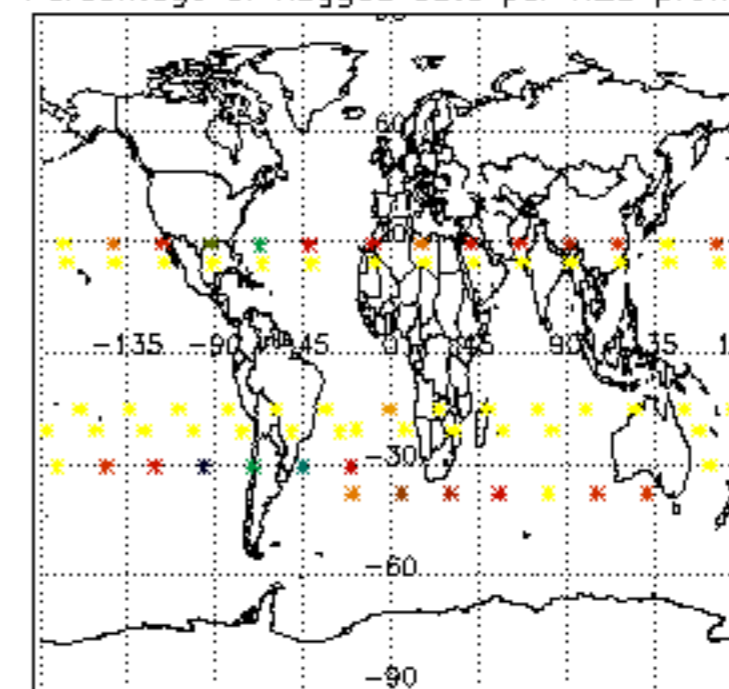




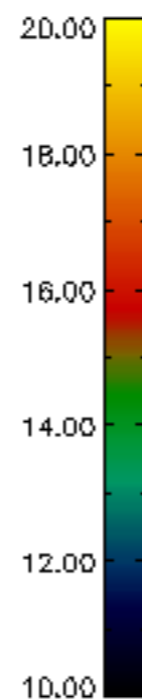
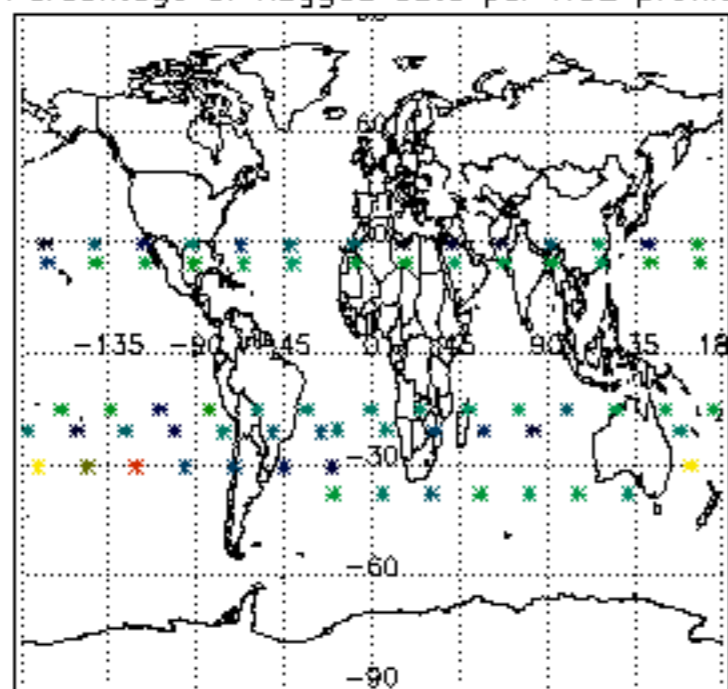
Percentage of flagged data per D3 profile



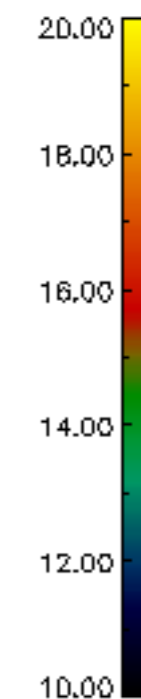
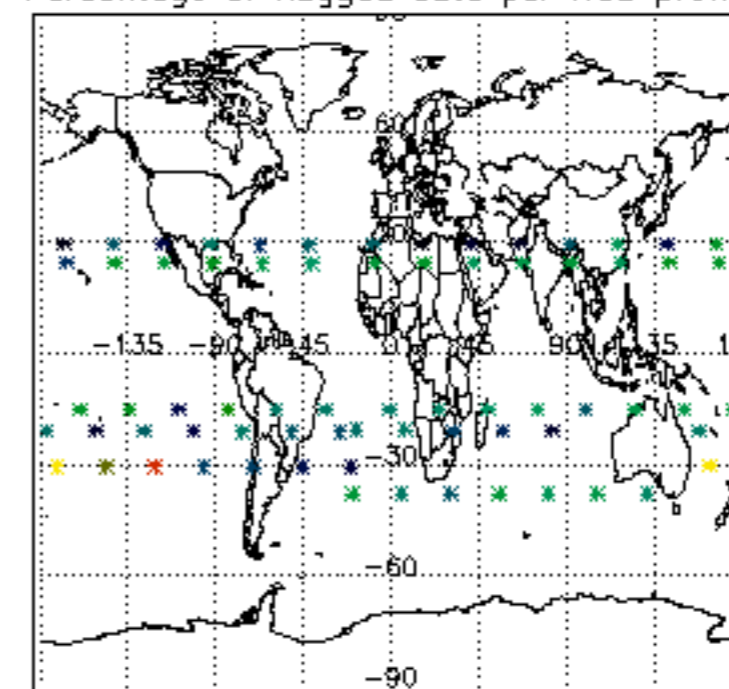
Percentage of flagged data per H2O profile

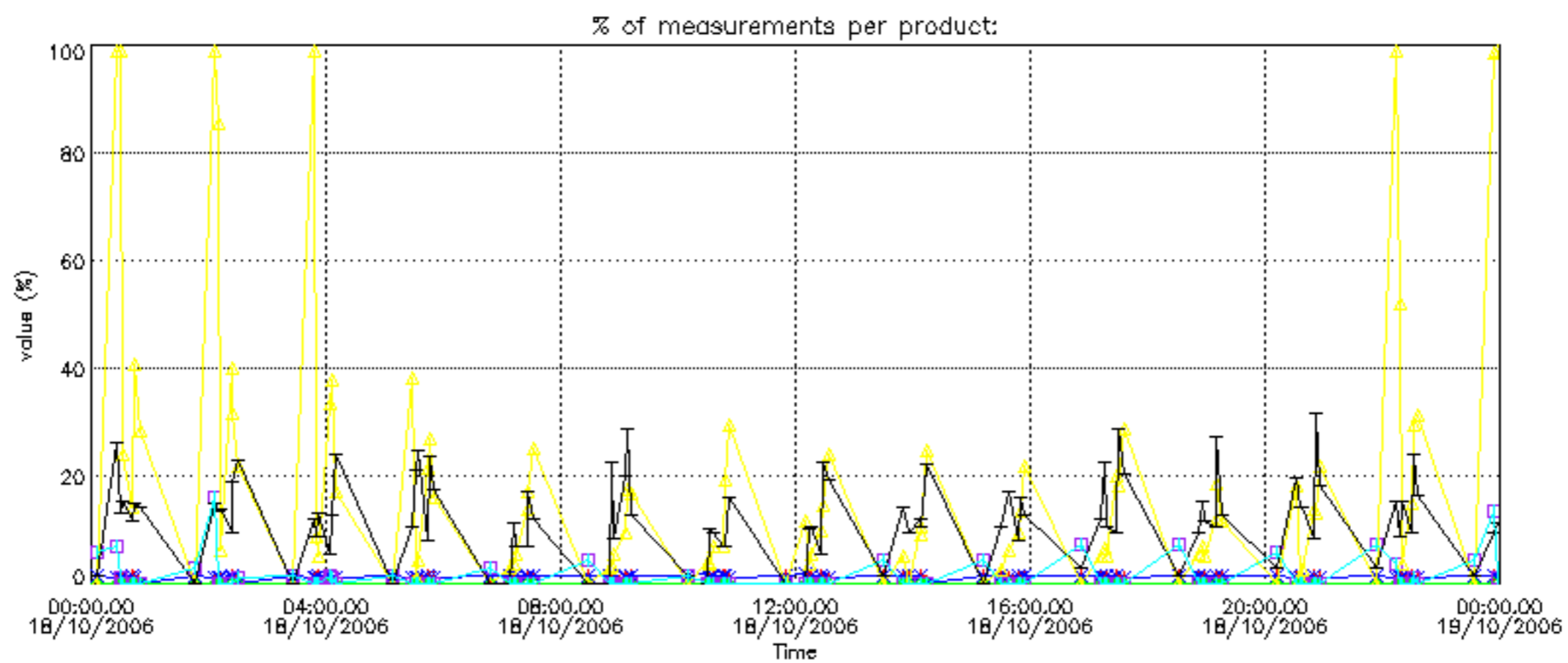
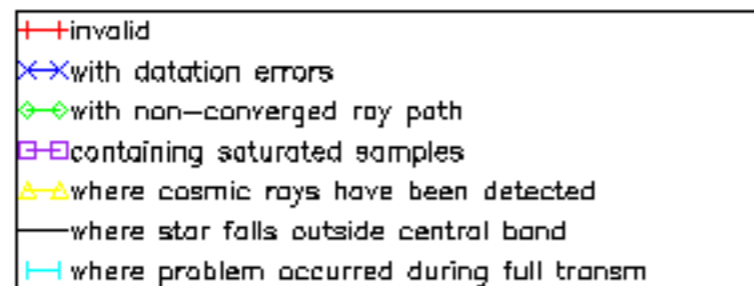


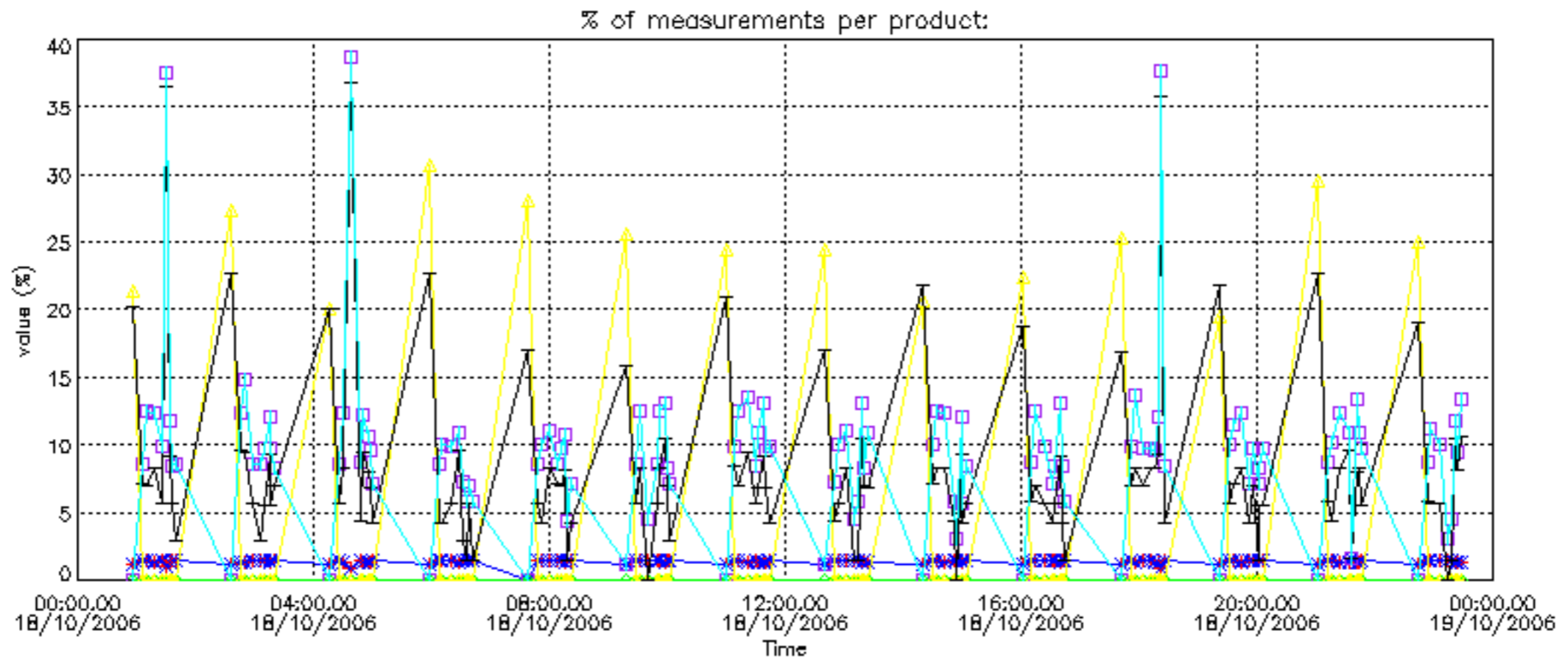
Percentage of flagged data per NO2 profile



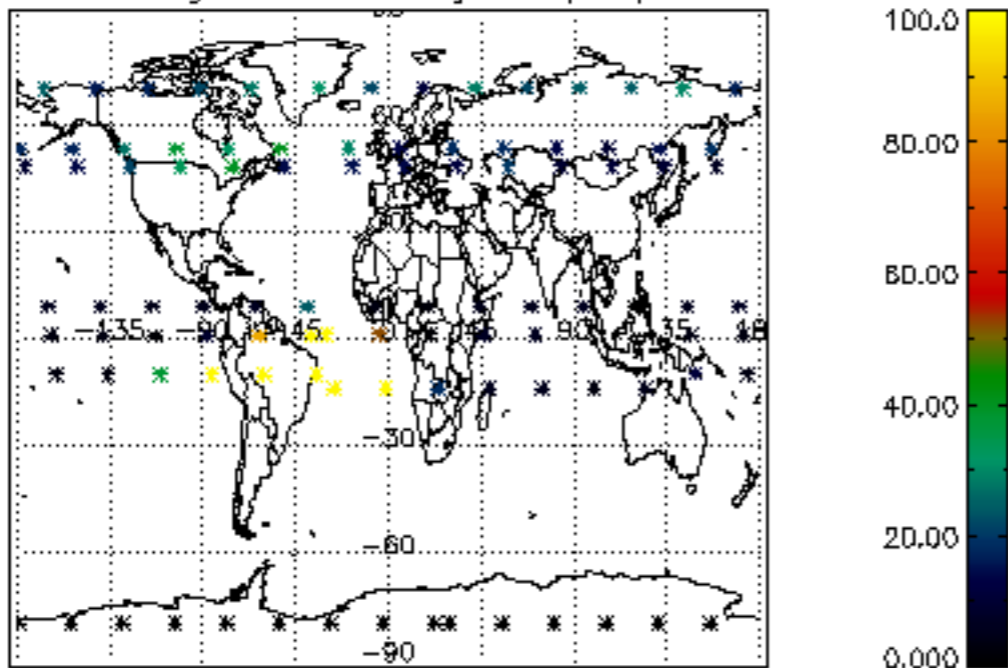
Percentage of flagged data per NO3 profile



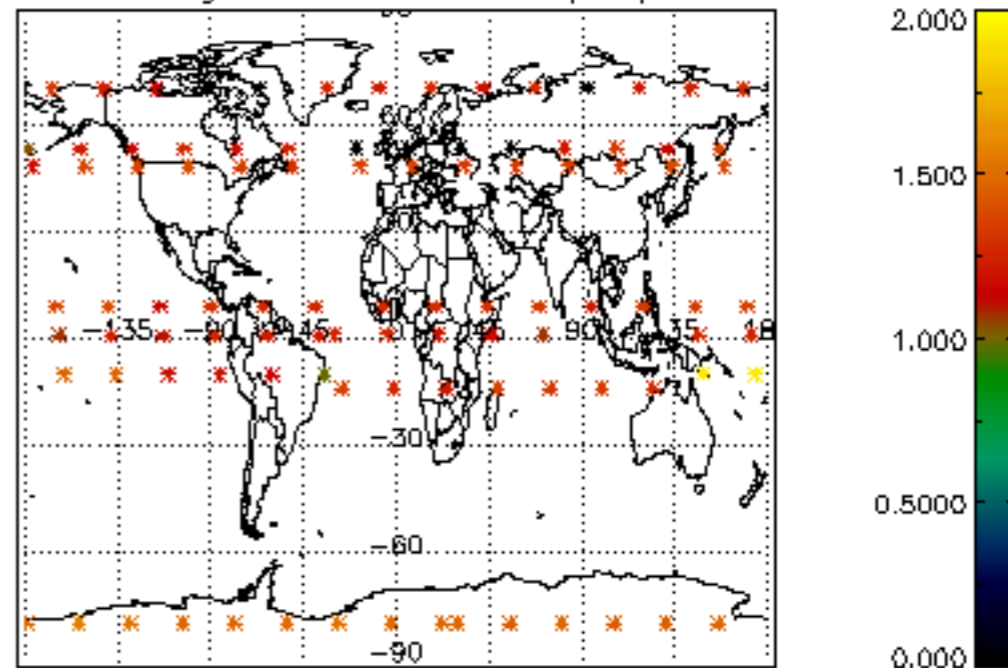




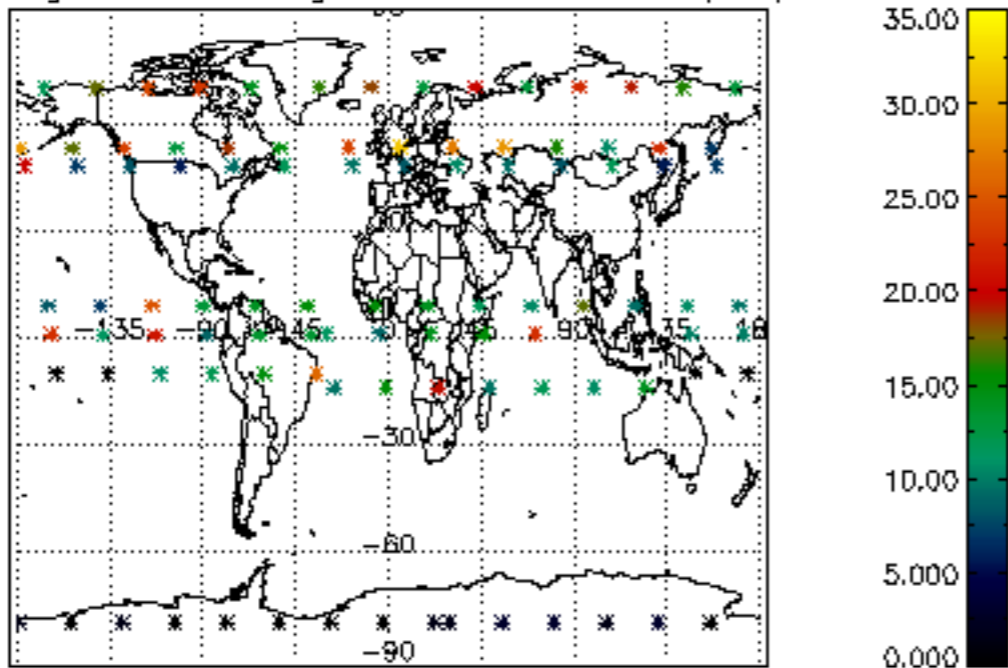
Percentage of cosmic ray hits per profile



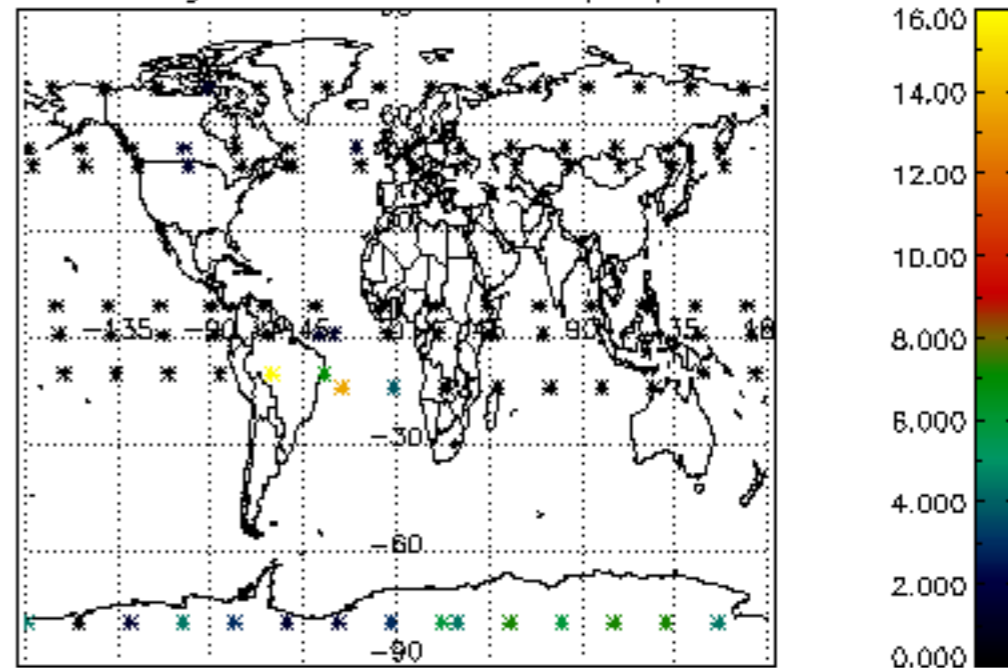
Percentage of datation errors per profile



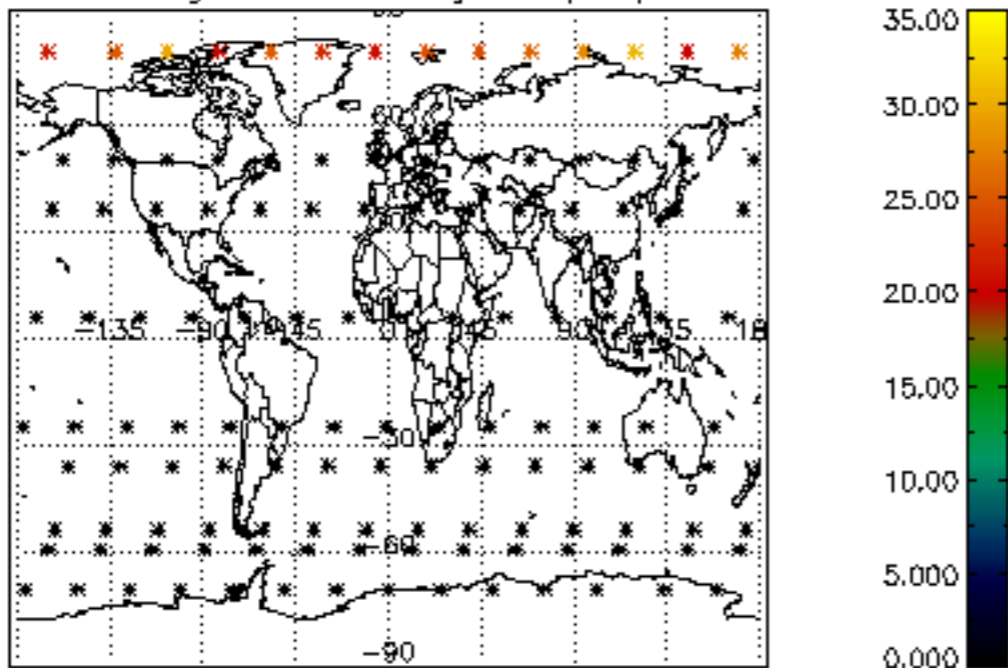
Percentage of star falling outside central band per profile



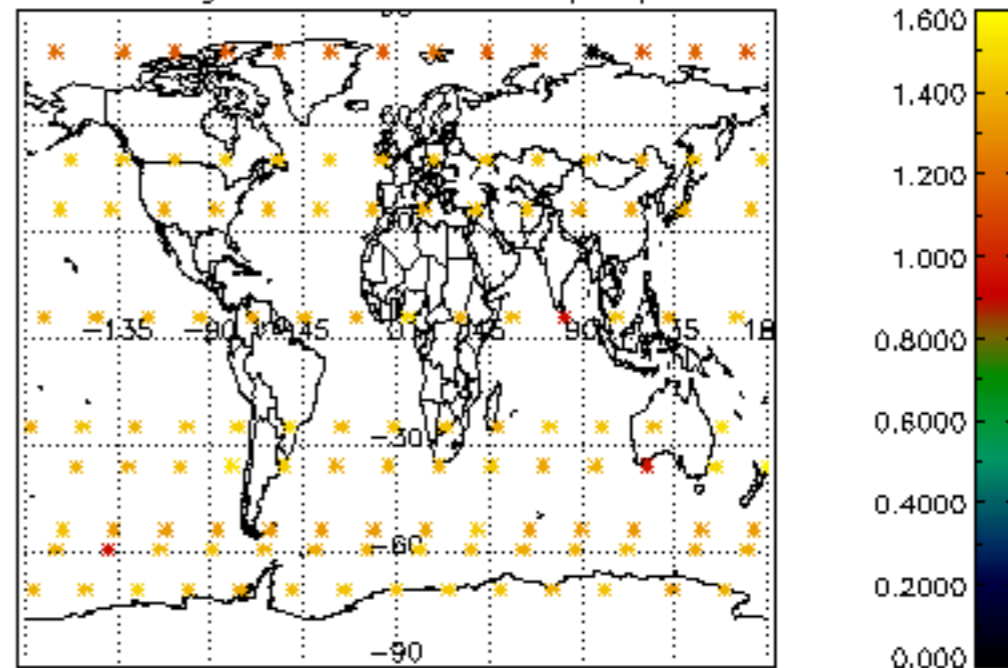
Percentage of saturation errors per profile



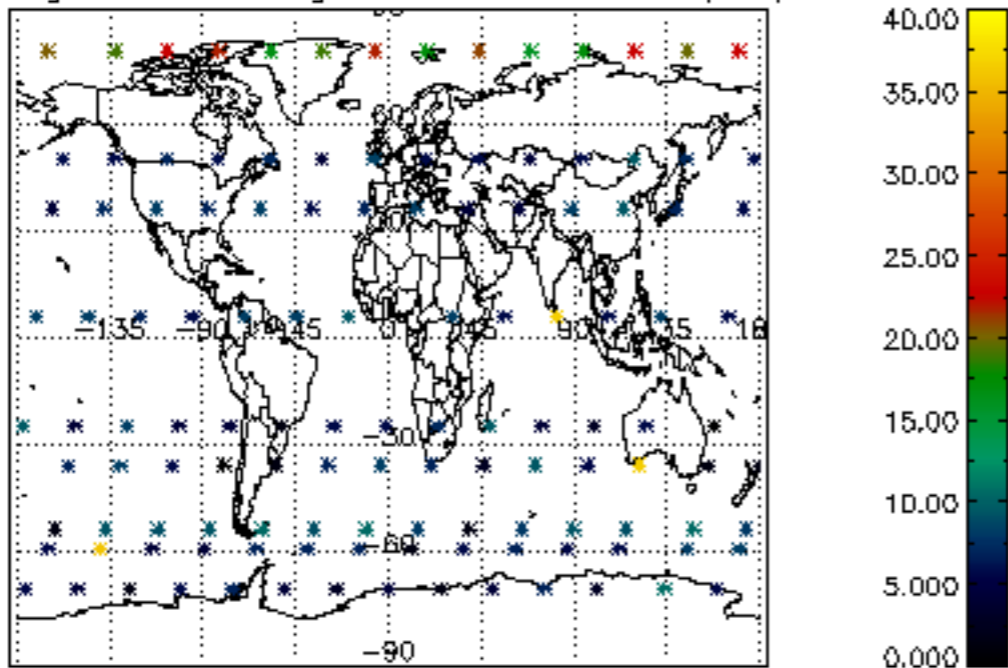
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

