

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	18APR2013 09:58:22
Data source version	GOMOS/6.01
Start time of products	19-07-2005 (19JUL2005 00:00:00)
Stop time of products	20-07-2005 (20JUL2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	172
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

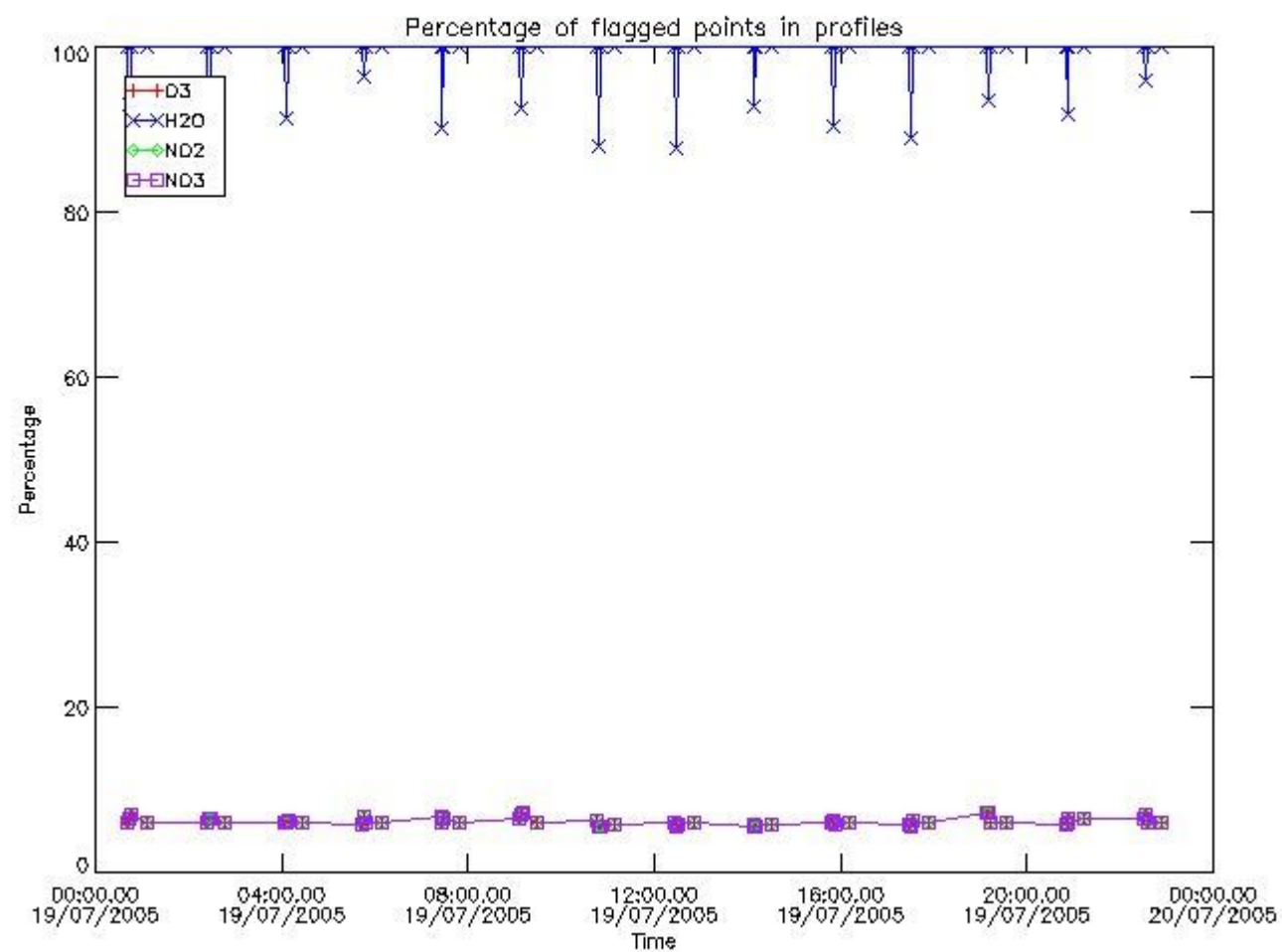
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20050719_000105_000000862039_00102_17691_5030.N1	19-JUL-2005 00:01:05	Bright	85.500	133	40Zet Her	2.8070	6000.0	171	17691	No
2	GOM_NL__2PRFIN20050719_000604_000000862039_00102_17691_5031.N1	19-JUL-2005 00:06:04	Bright	86.000	130	23Bet Dra	2.7990	5800.0	172	17691	No
3	GOM_NL__2PRFIN20050719_000910_000000862039_00102_17691_5032.N1	19-JUL-2005 00:09:10	Bright	85.500	119	14Eta Dra	2.7270	4700.0	171	17691	No
4	GOM_NL__2PRFIN20050719_001323_000000862039_00102_17691_5033.N1	19-JUL-2005 00:13:23	Bright	85.500	60	7Bet UMi	2.0810	3950.0	171	17691	No
5	GOM_NL__2PRFIN20050719_004207_000000862039_00102_17691_5034.N1	19-JUL-2005 00:42:07	Dark	85.500	72	34Del Ori	2.2500	30000.0	171	17691	No
6	GOM_NL__2PRFIN20050719_004432_000000872039_00102_17691_5035.N1	19-JUL-2005 00:44:32	Dark	87.000	7	19Bet Ori	0.10000	14000.0	174	17691	No
7	GOM_NL__2PRFIN20050719_004656_000000892039_00102_17691_5036.N1	19-JUL-2005 00:46:56	Dark	88.500	101	11Alp Lep	2.5820	7000.0	177	17691	No
8	GOM_NL__2PRFIN20050719_010619_000000852039_00103_17692_5026.N1	19-JUL-2005 01:06:19	Dark	85.000	135	Bet Hyi	2.8200	5800.0	170	17692	No
9	GOM_NL__2PRFIN20050719_012210_000000922039_00103_17692_5027.N1	19-JUL-2005 01:22:10	Twilight	91.500	38	20Eps Sgr	1.8360	11000.0	183	17692	No
10	GOM_NL__2PRFIN20050719_012436_000000892039_00103_17692_5028.N1	19-JUL-2005 01:24:36	Bright	88.500	137	22Lam Sgr	2.8240	4400.0	177	17692	No
11	GOM_NL__2PRFIN20050719_013322_000000852039_00103_17692_5029.N1	19-JUL-2005 01:33:22	Bright	85.000	126	60Bet Oph	2.7700	4250.0	170	17692	No
12	GOM_NL__2PRFIN20050719_013540_000000862039_00103_17692_5030.N1	19-JUL-2005 01:35:40	Bright	86.000	59	55Alp Oph	2.0800	8900.0	172	17692	No
13	GOM_NL__2PRFIN20050719_014142_000000862039_00103_17692_5031.N1	19-JUL-2005 01:41:42	Bright	85.500	133	40Zet Her	2.8070	6000.0	171	17692	No
14	GOM_NL__2PRFIN20050719_014640_000000852039_00103_17692_5032.N1	19-JUL-2005 01:46:40	Bright	85.000	130	23Bet Dra	2.7990	5800.0	170	17692	No
15	GOM_NL__2PRFIN20050719_014946_000000822039_00103_17692_5033.N1	19-JUL-2005 01:49:46	Bright	82.000	119	14Eta Dra	2.7270	4700.0	164	17692	No
16	GOM_NL__2PRFIN20050719_015359_000000862039_00103_17692_5034.N1	19-JUL-2005 01:53:59	Bright	86.000	60	7Bet UMi	2.0810	3950.0	172	17692	No
17	GOM_NL__2PRFIN20050719_022244_000000852039_00103_17692_5035.N1	19-JUL-2005 02:22:44	Dark	85.000	72	34Del Ori	2.2500	30000.0	170	17692	No
18	GOM_NL__2PRFIN20050719_022508_000000932039_00103_17692_5036.N1	19-JUL-2005 02:25:08	Dark	93.000	7	19Bet Ori	0.10000	14000.0	186	17692	No
19	GOM_NL__2PRFIN20050719_022732_000000852039_00103_17692_5037.N1	19-JUL-2005 02:27:32	Dark	85.000	101	11Alp Lep	2.5820	7000.0	170	17692	No
20	GOM_NL__2PRFIN20050719_024656_000000872039_00104_17693_5220.N1	19-JUL-2005 02:46:56	Dark	86.500	135	Bet Hyi	2.8200	5800.0	173	17693	No
21	GOM_NL__2PRFIN20050719_030246_000000922039_00104_17693_5221.N1	19-JUL-2005 03:02:46	Twilight	92.000	38	20Eps Sgr	1.8360	11000.0	184	17693	No
22	GOM_NL__2PRFIN20050719_030512_000000892039_00104_17693_5222.N1	19-JUL-2005 03:05:12	Bright	89.000	137	22Lam Sgr	2.8240	4400.0	178	17693	No
23	GOM_NL__2PRFIN20050719_031358_000000862039_00104_17693_5223.N1	19-JUL-2005 03:13:58	Bright	86.000	126	60Bet Oph	2.7700	4250.0	172	17693	No
24	GOM_NL__2PRFIN20050719_031616_000000862039_00104_17693_5224.N1	19-JUL-2005 03:16:16	Bright	86.000	59	55Alp Oph	2.0800	8900.0	172	17693	No
25	GOM_NL__2PRFIN20050719_032218_000000852039_00104_17693_5225.N1	19-JUL-2005 03:22:18	Bright	84.500	133	40Zet Her	2.8070	6000.0	169	17693	No
26	GOM_NL__2PRFIN20050719_032716_000000842039_00104_17693_5226.N1	19-JUL-2005 03:27:16	Bright	83.500	130	23Bet Dra	2.7990	5800.0	167	17693	No
27	GOM_NL__2PRFIN20050719_033022_000000822039_00104_17693_5227.N1	19-JUL-2005 03:30:22	Bright	81.500	119	14Eta Dra	2.7270	4700.0	163	17693	No
28	GOM_NL__2PRFIN20050719_033435_000000862039_00104_17693_5228.N1	19-JUL-2005 03:34:35	Bright	85.500	60	7Bet UMi	2.0810	3950.0	171	17693	No
29	GOM_NL__2PRFIN20050719_040320_000000862039_00104_17693_5229.N1	19-JUL-2005 04:03:20	Dark	86.000	72	34Del Ori	2.2500	30000.0	172	17693	No
30	GOM_NL__2PRFIN20050719_040544_000000862039_00104_17693_5230.N1	19-JUL-2005 04:05:44	Dark	86.000	7	19Bet Ori	0.10000	14000.0	172	17693	No
31	GOM_NL__2PRFIN20050719_040809_000000832039_00104_17693_5231.N1	19-JUL-2005 04:08:09	Dark	82.500	101	11Alp Lep	2.5820	7000.0	165	17693	No
32	GOM_NL__2PRFIN20050719_042732_000000852039_00105_17694_5221.N1	19-JUL-2005 04:27:32	Dark	84.500	135	Bet Hyi	2.8200	5800.0	169	17694	No
33	GOM_NL__2PRFIN20050719_044322_000000932039_00105_17694_5222.N1	19-JUL-2005 04:43:22	Twilight	92.500	38	20Eps Sgr	1.8360	11000.0	185	17694	No
34	GOM_NL__2PRFIN20050719_044548_000000882039_00105_17694_5223.N1	19-JUL-2005 04:45:48	Bright	88.000	137	22Lam Sgr	2.8240	4400.0	176	17694	No
35	GOM_NL__2PRFIN20050719_045434_000000852039_00105_17694_5224.N1	19-JUL-2005 04:54:34	Bright	84.500	126	60Bet Oph	2.7700	4250.0	169	17694	No
36	GOM_NL__2PRFIN20050719_045652_000000862039_00105_17694_5225.N1	19-JUL-2005 04:56:52	Bright	85.500	59	55Alp Oph	2.0800	8900.0	171	17694	No
37	GOM_NL__2PRFIN20050719_050254_000000862039_00105_17694_5226.N1	19-JUL-2005 05:02:54	Bright	85.500	133	40Zet Her	2.8070	6000.0	171	17694	No
38	GOM_NL__2PRFIN20050719_050752_000000862039_00105_17694_5227.N1	19-JUL-2005 05:07:52	Bright	85.500	130	23Bet Dra	2.7990	5800.0	171	17694	No
39	GOM_NL__2PRFIN20050719_051058_000000862039_00105_17694_5228.N1	19-JUL-2005 05:10:58	Bright	86.000	119	14Eta Dra	2.7270	4700.0	172	17694	No
40	GOM_NL__2PRFIN20050719_051512_000000822039_00105_17694_5229.N1	19-JUL-2005 05:15:12	Bright	82.000	60	7Bet UMi	2.0810	3950.0	164	17694	No
41	GOM_NL__2PRFIN20050719_054356_000000872039_00105_17694_5230.N1	19-JUL-2005 05:43:56	Dark	87.000	72	34Del Ori	2.2500	30000.0	174	17694	No
42	GOM_NL__2PRFIN20050719_054621_000000842039_00105_17694_5231.N1	19-JUL-2005 05:46:21	Dark	84.000	7	19Bet Ori	0.10000	14000.0	168	17694	No

161	GOM_NL__2PRFIN20050719_223009_000000872039_00115_17704_5260.N1	19-JUL-2005 22:30:09	Dark	86.500	30	46Eps Ori	1.6940	30000.	173	17704	No
162	GOM_NL__2PRFIN20050719_223222_000000872039_00115_17704_5261.N1	19-JUL-2005 22:32:22	Dark	86.500	7	19Bet Ori	0.10000	14000.	173	17704	No
163	GOM_NL__2PRFIN20050719_223446_000000852039_00115_17704_5262.N1	19-JUL-2005 22:34:46	Dark	84.500	101	11Alp Lep	2.5820	7000.0	169	17704	No
164	GOM_NL__2PRFIN20050719_225410_000000862039_00116_17705_5252.N1	19-JUL-2005 22:54:10	Dark	85.500	135	Bet Hyi	2.8200	5800.0	171	17705	No
165	GOM_NL__2PRFIN20050719_230959_000000922039_00116_17705_5253.N1	19-JUL-2005 23:09:59	Twilight_stray	91.500	38	20Eps Sgr	1.8360	11000.	183	17705	No
166	GOM_NL__2PRFIN20050719_231225_000000892039_00116_17705_5254.N1	19-JUL-2005 23:12:25	Bright	89.000	137	22Lam Sgr	2.8240	4400.0	178	17705	No
167	GOM_NL__2PRFIN20050719_232111_000000862039_00116_17705_5255.N1	19-JUL-2005 23:21:11	Bright	85.500	126	60Bet Oph	2.7700	4250.0	171	17705	No
168	GOM_NL__2PRFIN20050719_232330_000000872039_00116_17705_5256.N1	19-JUL-2005 23:23:30	Bright	86.500	59	55Alp Oph	2.0800	8900.0	173	17705	No
169	GOM_NL__2PRFIN20050719_232933_000000842039_00116_17705_5257.N1	19-JUL-2005 23:29:33	Bright	83.500	133	40Zet Her	2.8070	6000.0	167	17705	No
170	GOM_NL__2PRFIN20050719_233428_000000852039_00116_17705_5258.N1	19-JUL-2005 23:34:28	Bright	84.500	130	23Bet Dra	2.7990	5800.0	169	17705	No
171	GOM_NL__2PRFIN20050719_233736_000000862039_00116_17705_5259.N1	19-JUL-2005 23:37:36	Bright	86.000	119	14Eta Dra	2.7270	4700.0	172	17705	No
172	GOM_NL__2PRFIN20050719_234149_000000872039_00116_17705_5260.N1	19-JUL-2005 23:41:49	Bright	86.500	60	7Bet UMi	2.0810	3950.0	173	17705	No

3. Quality information per product

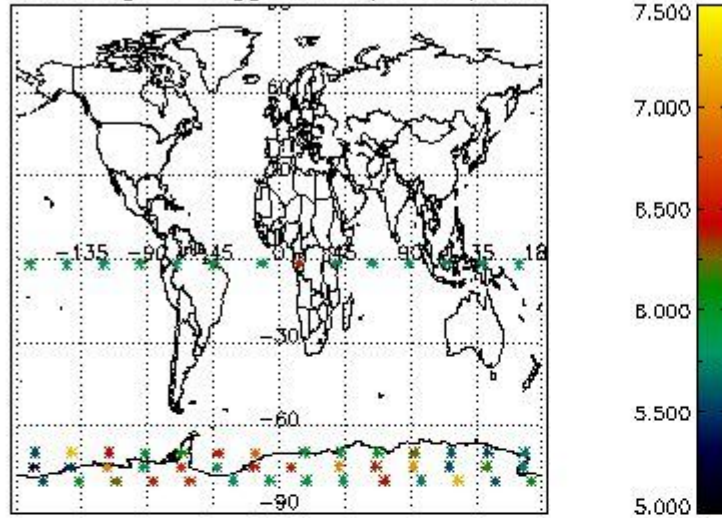
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

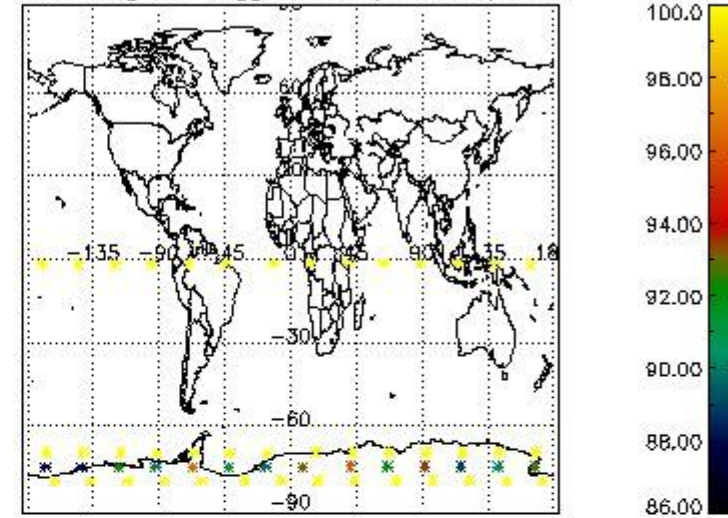


3.2 Plot quality information per product (world map)

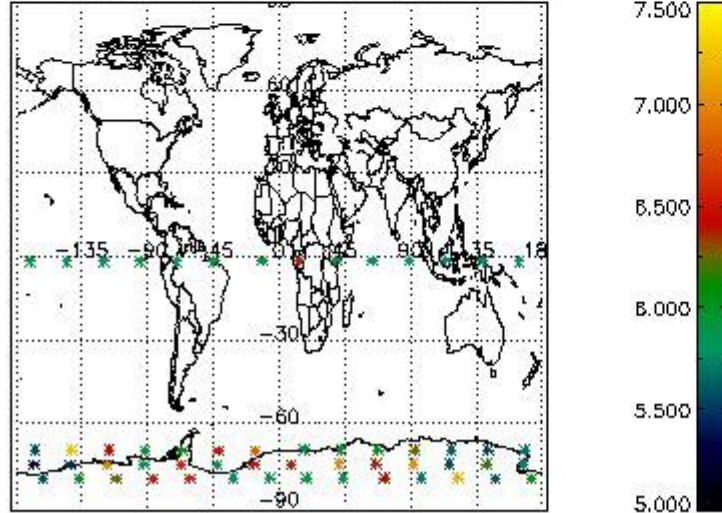
Percentage of flagged data per O3 profile



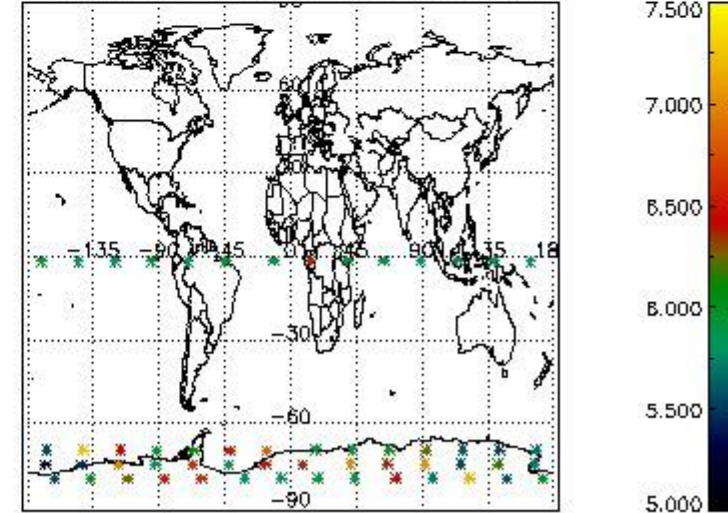
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

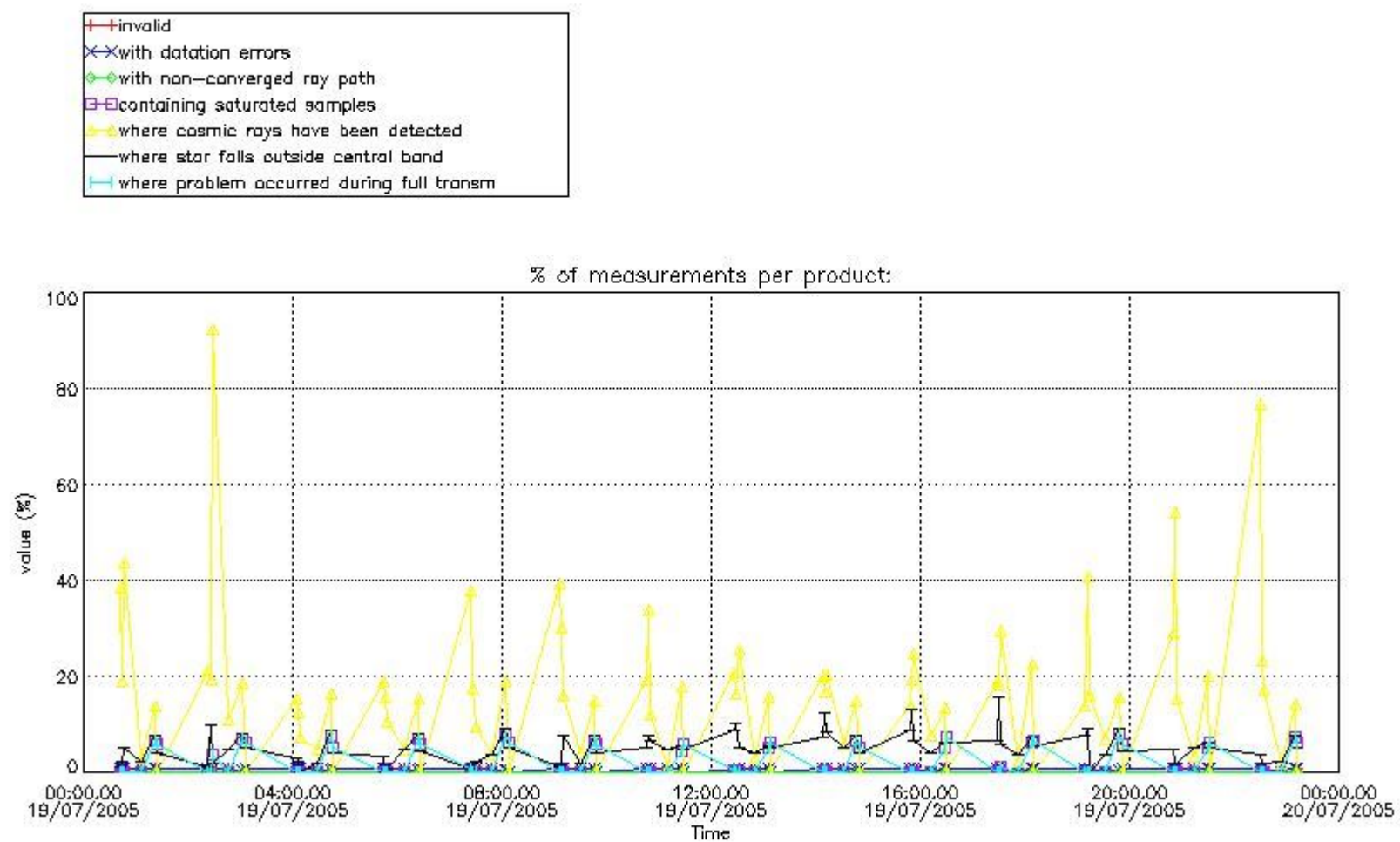


4. Level 1 quality information per product

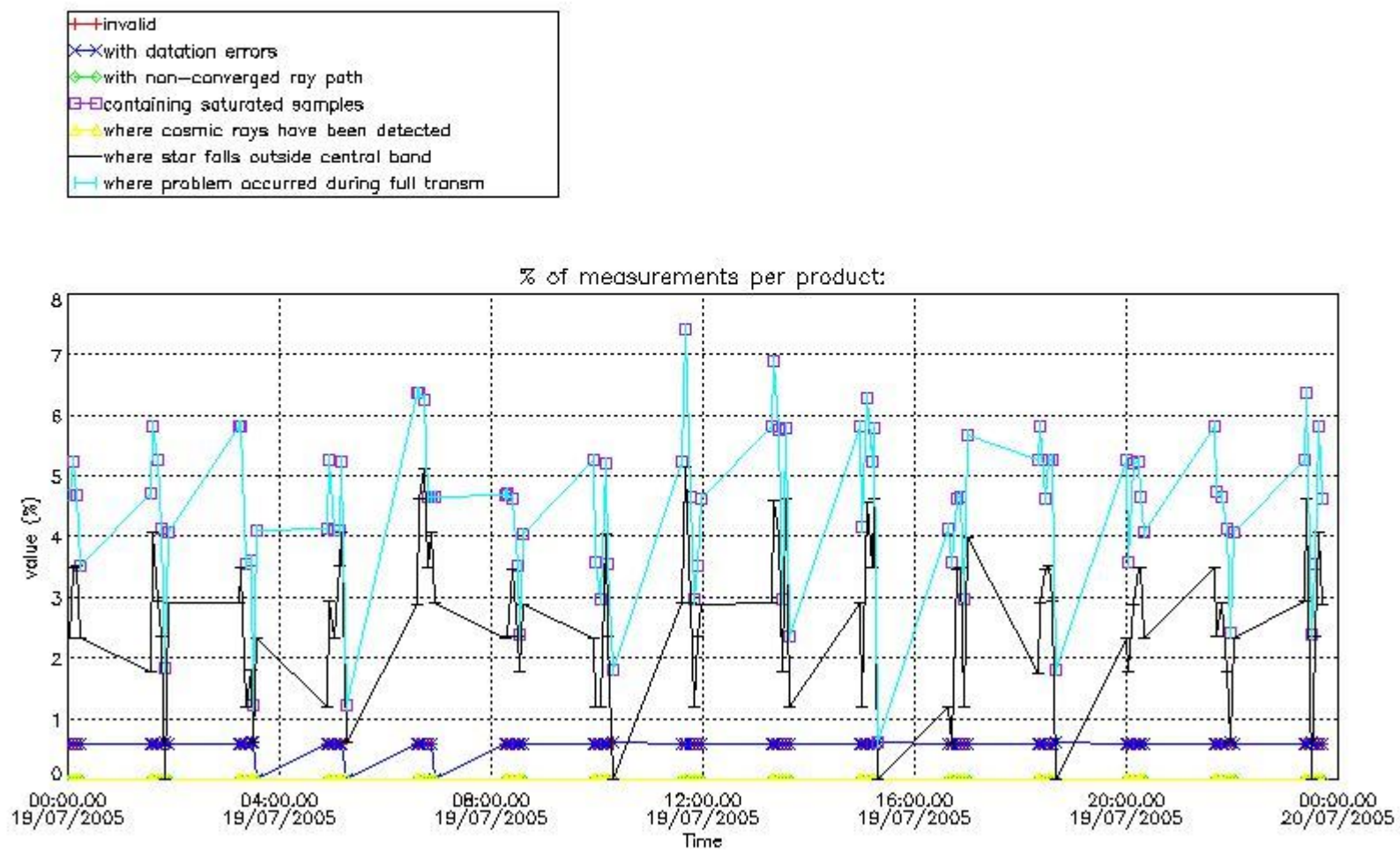
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes

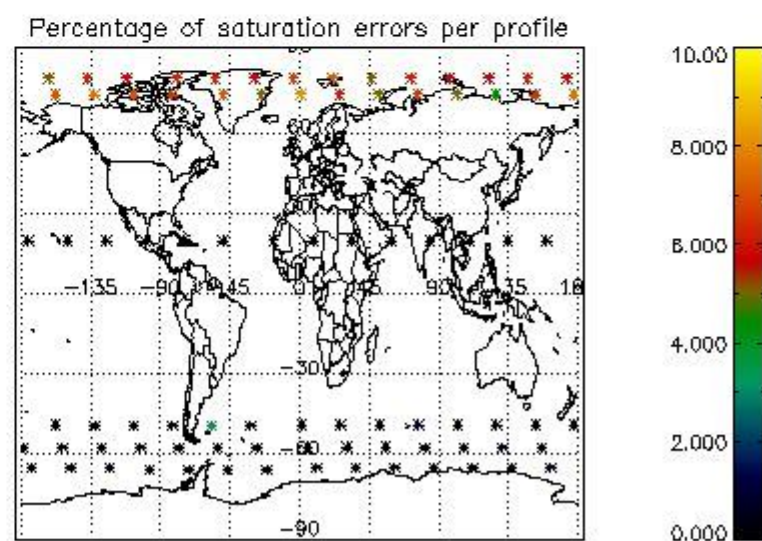
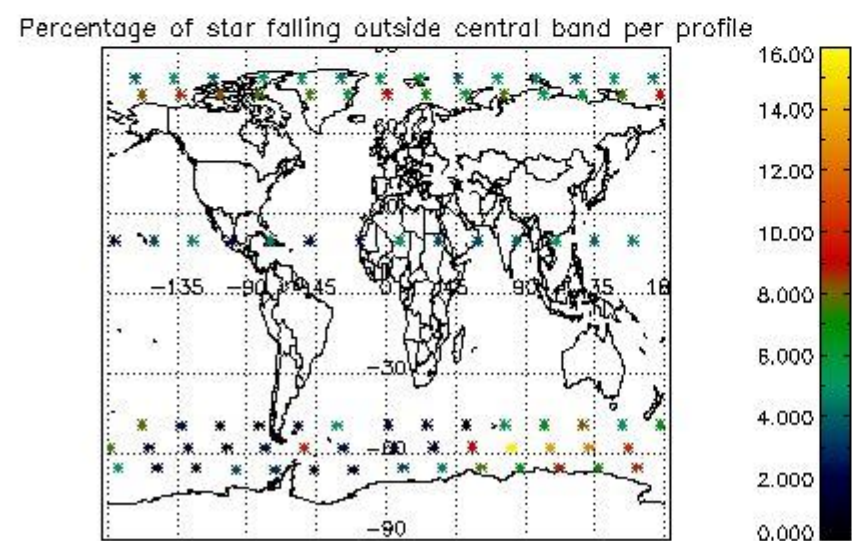
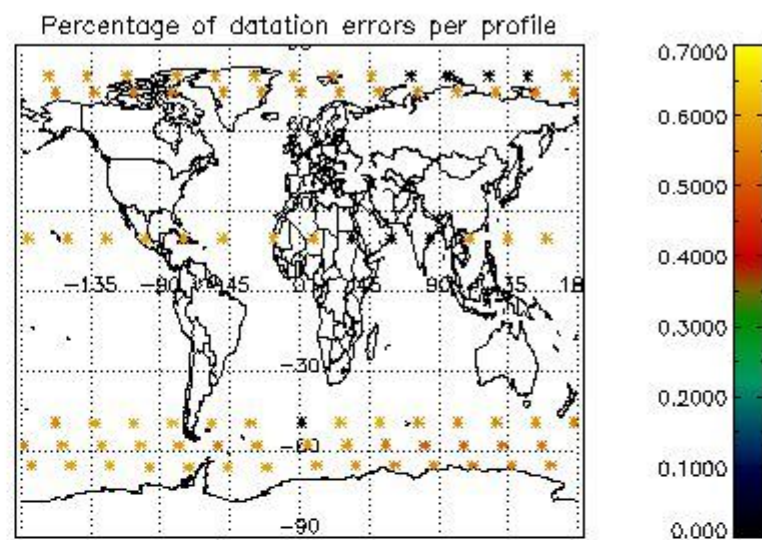
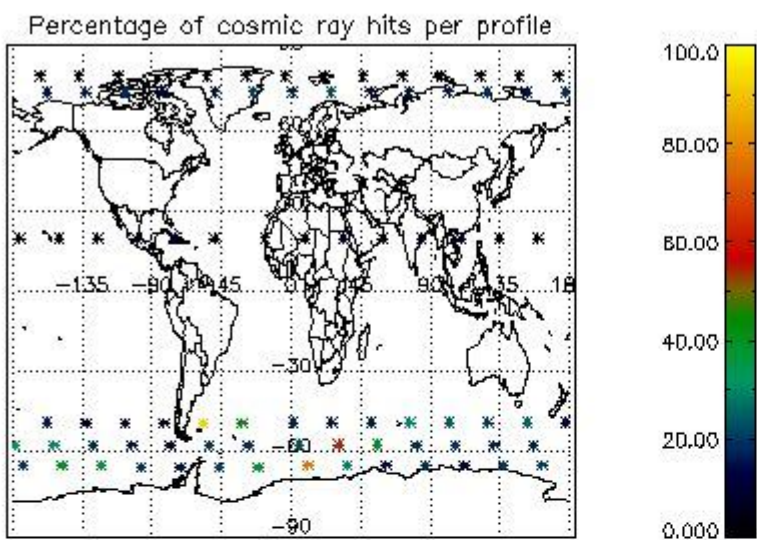


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

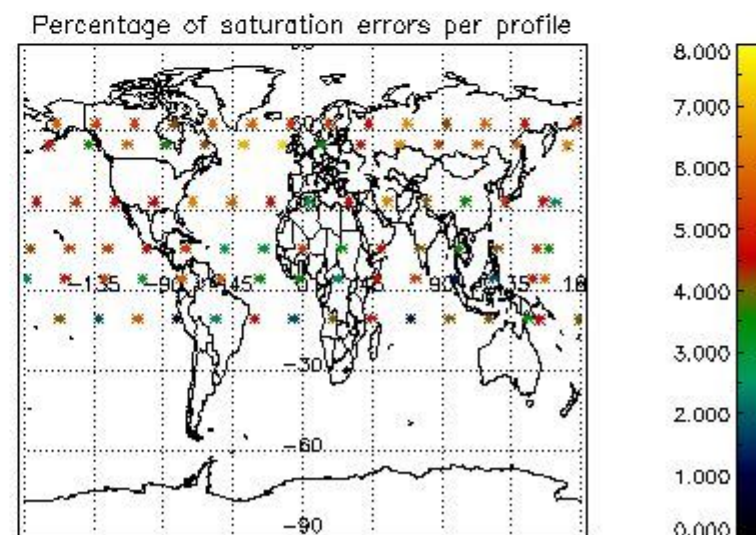
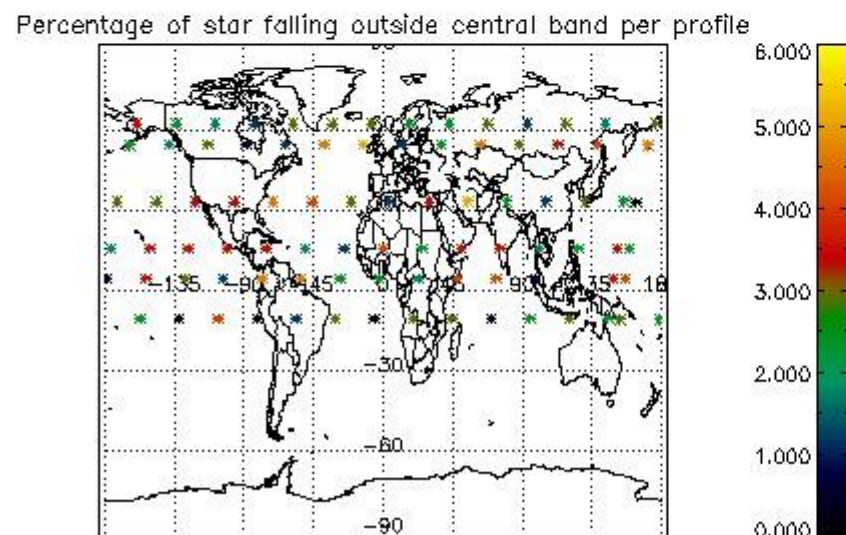
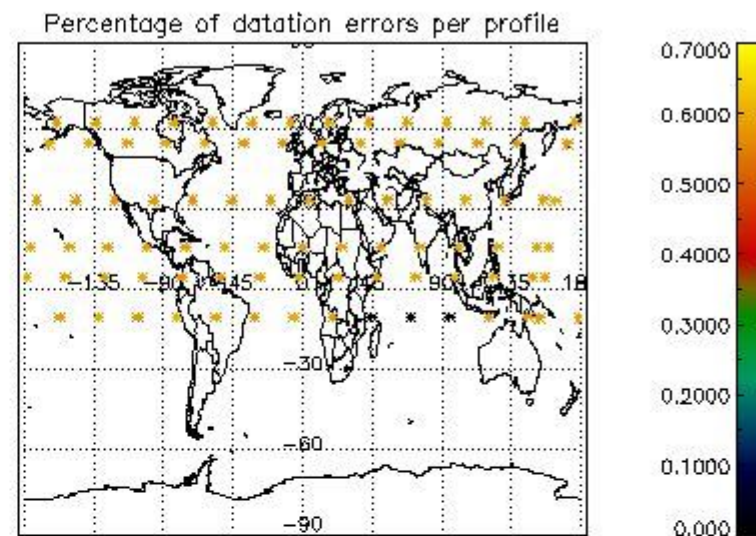
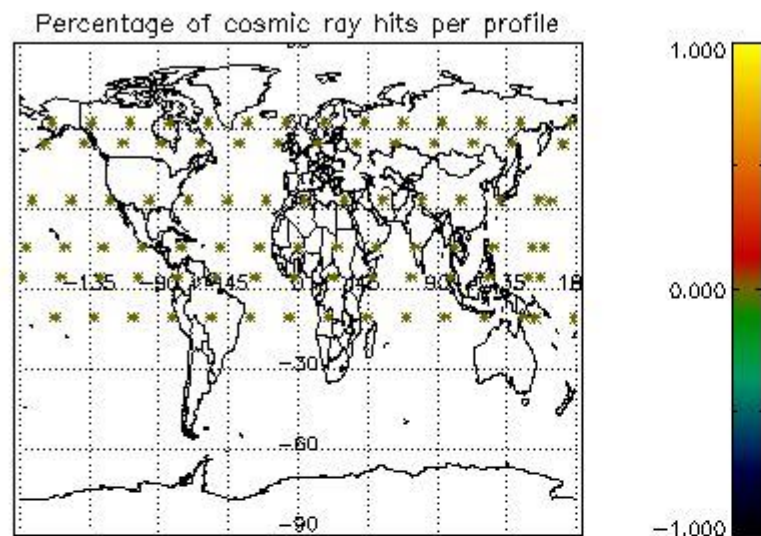


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

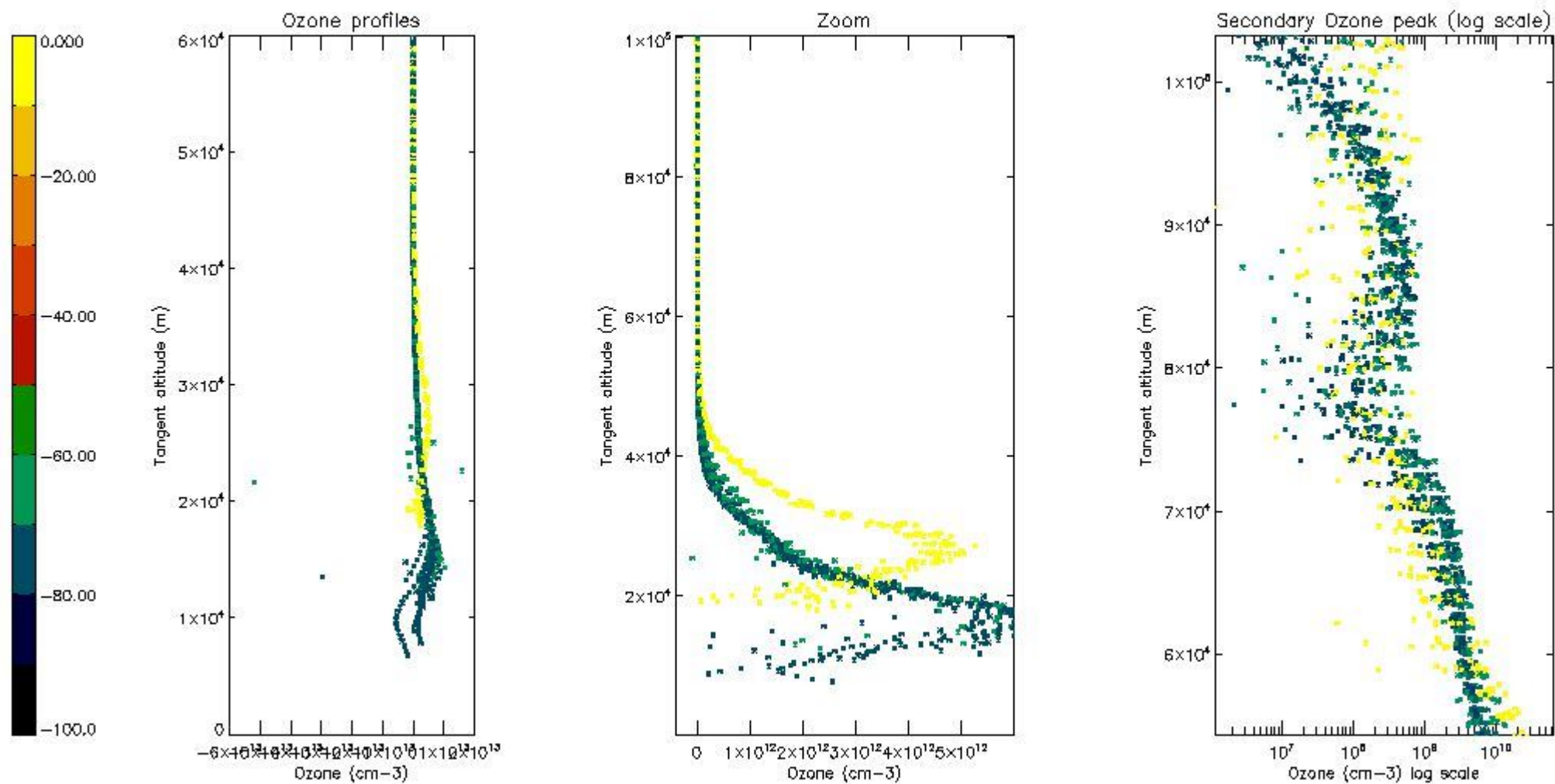
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	8

STD < 10	6
STD < 5	4

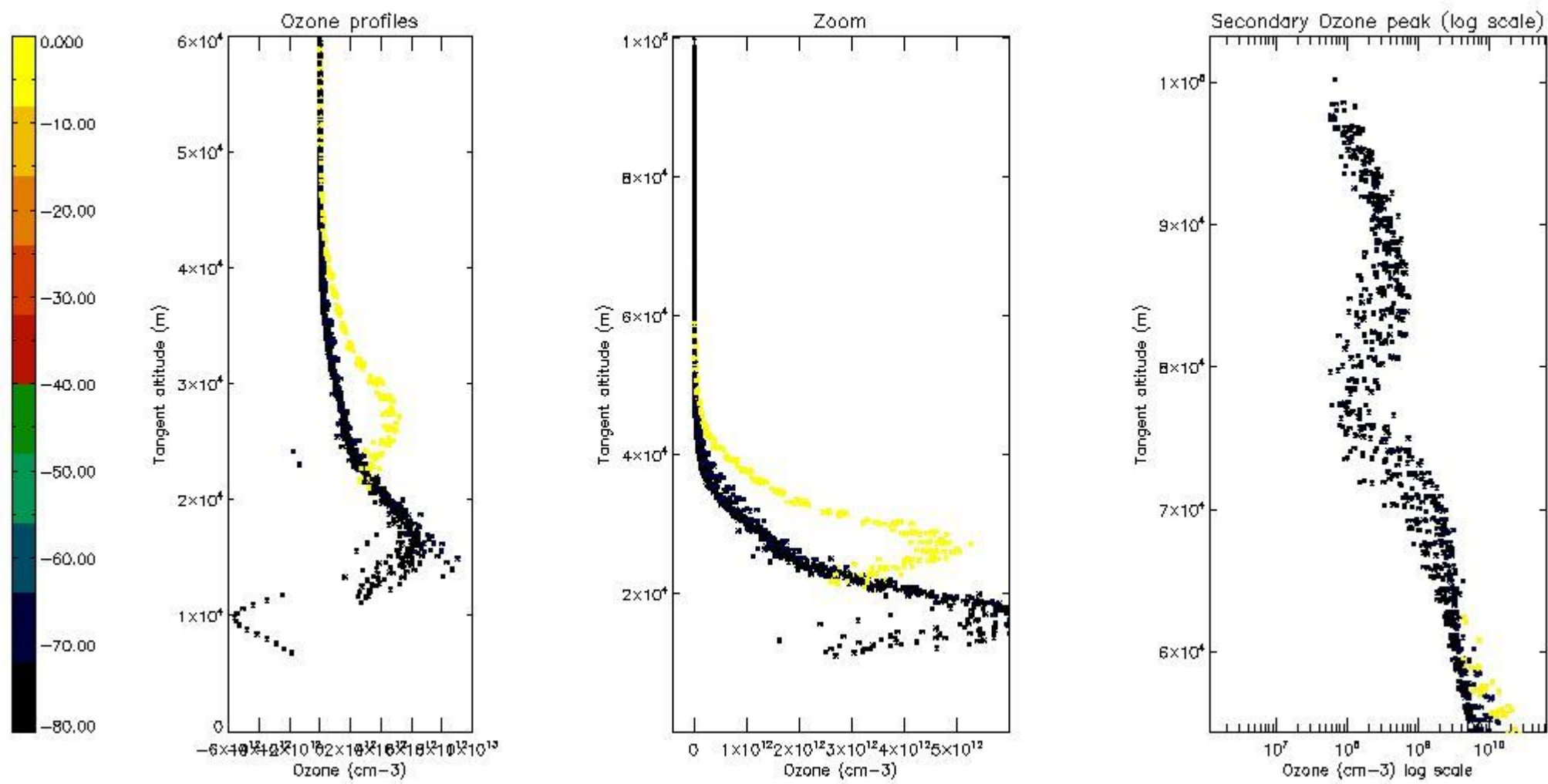
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



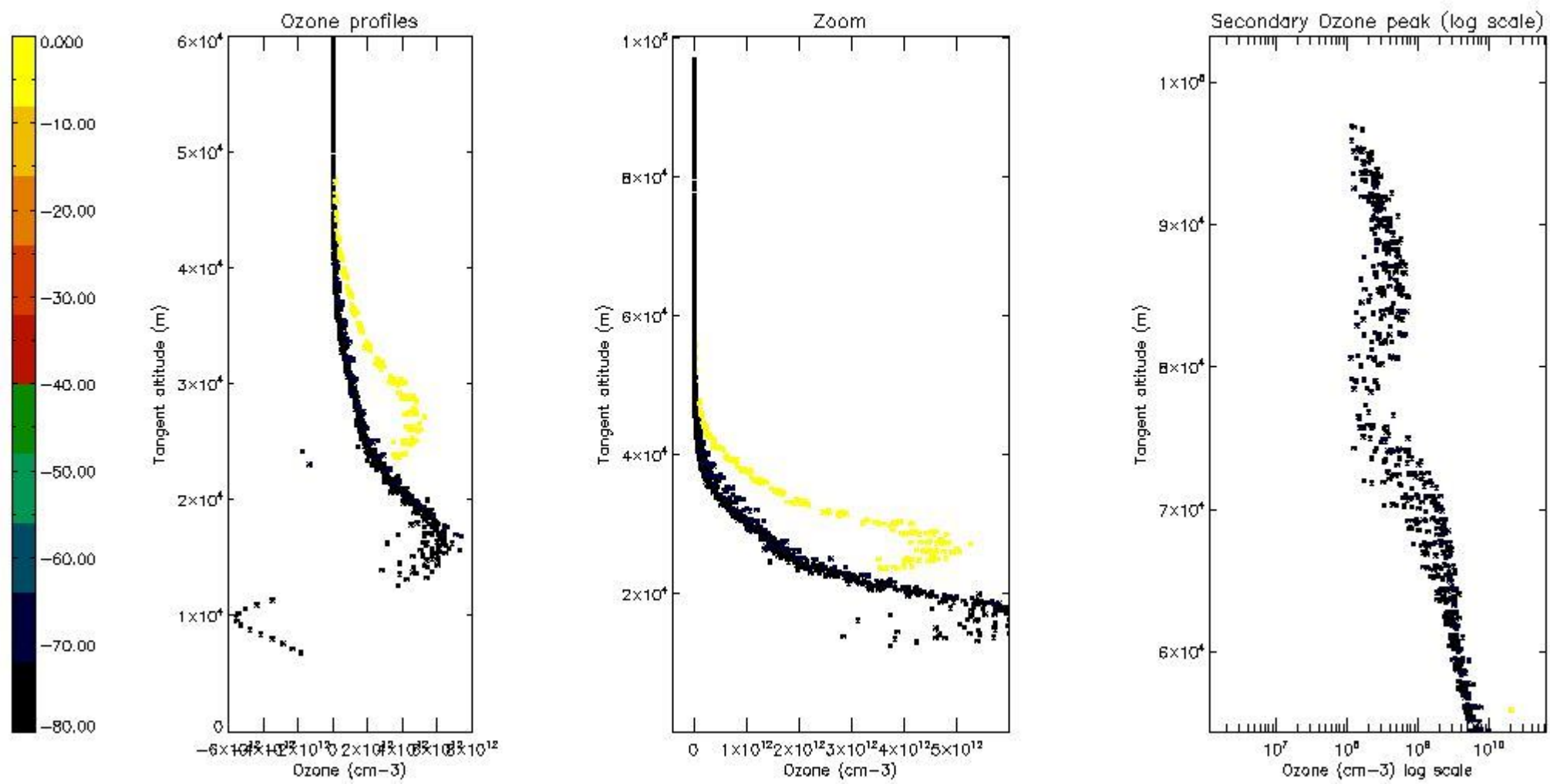
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



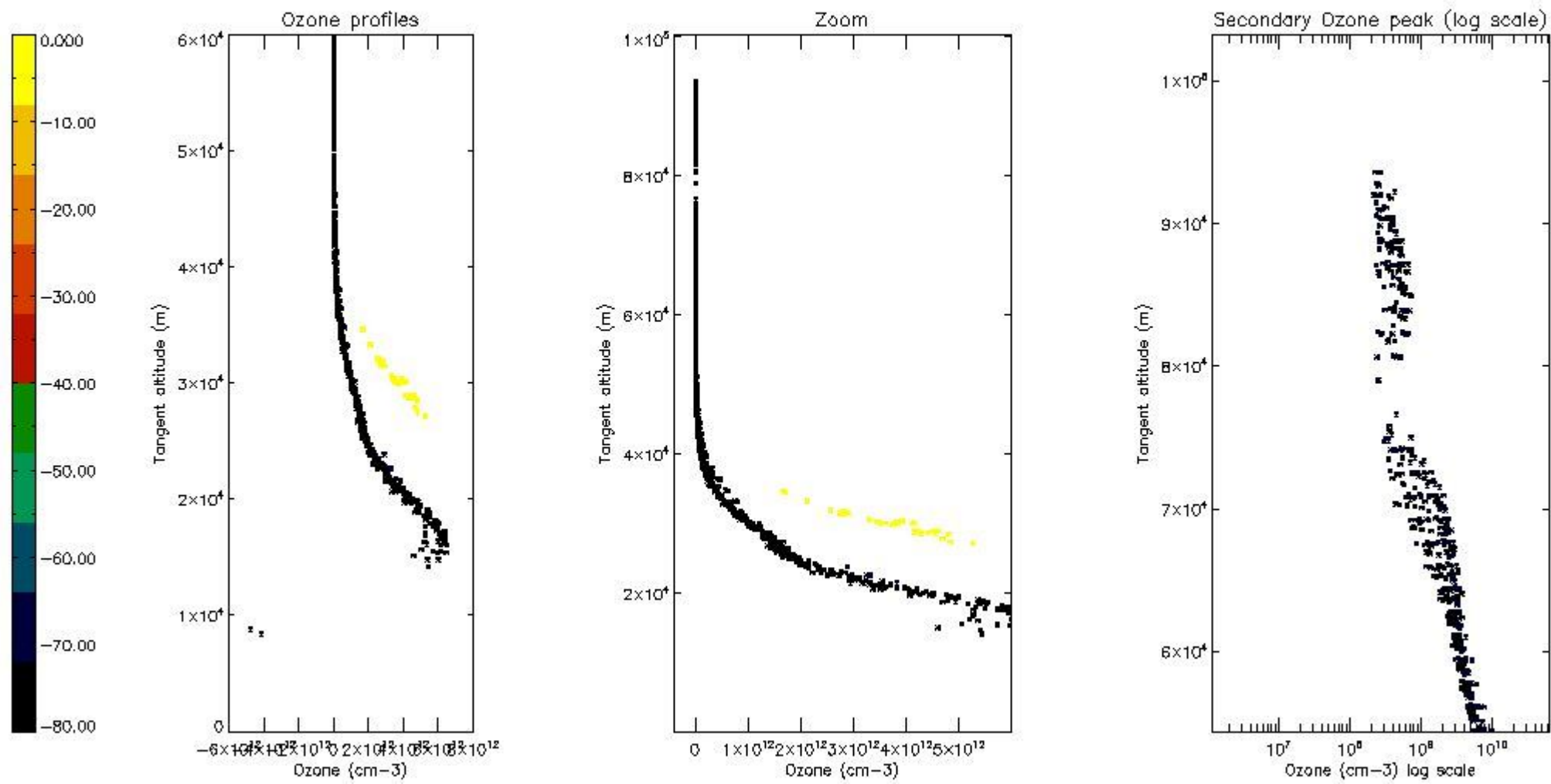
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



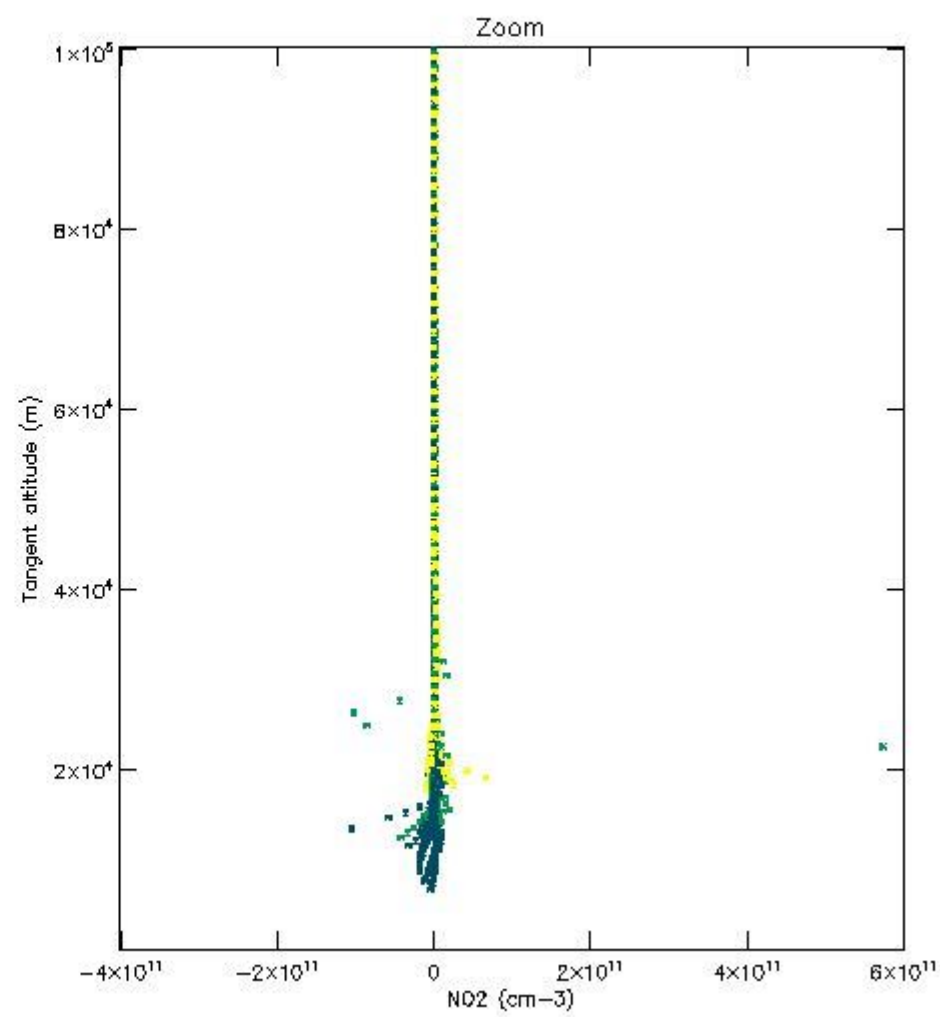
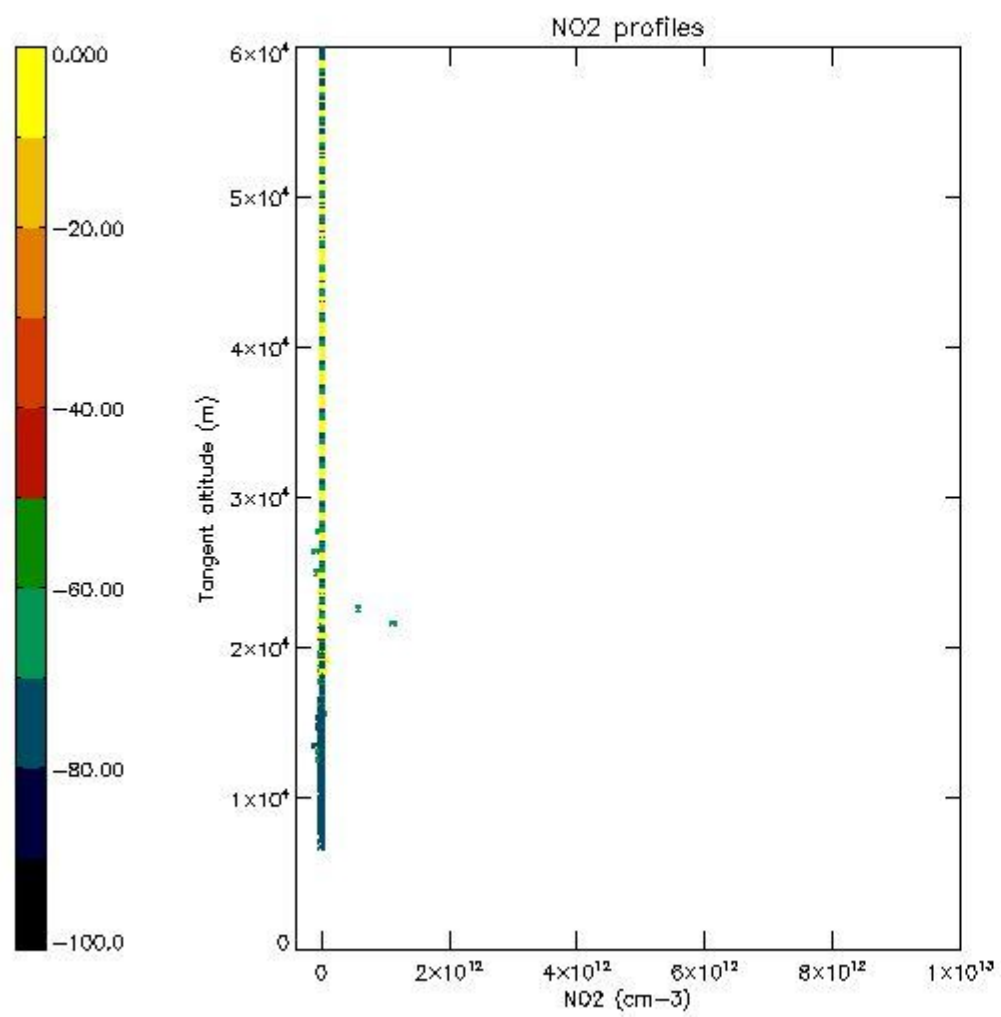
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



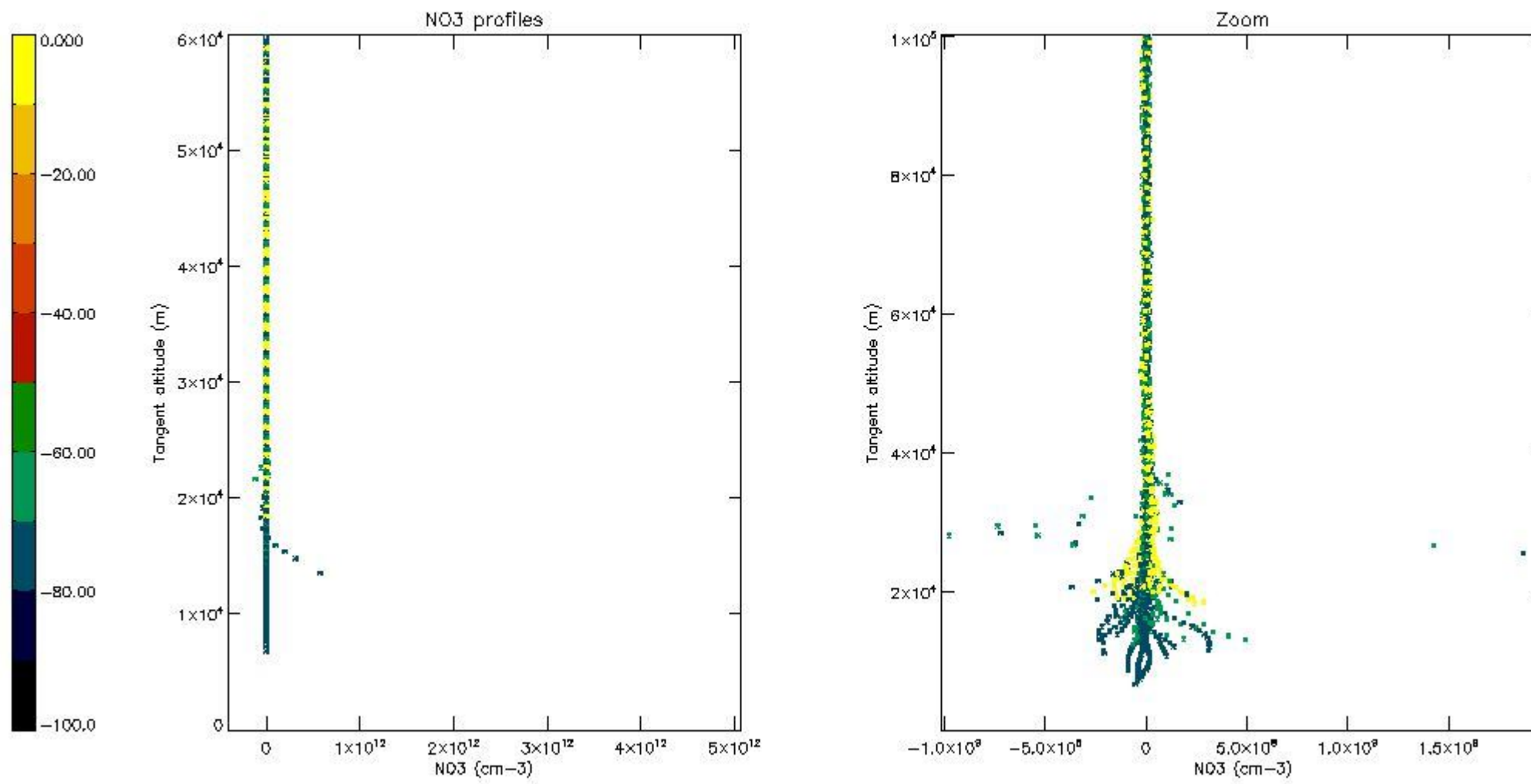
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	19-JUL-2005 00:01:05
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-JUL-2005 00:01:05
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-JUL-2005 00:01:05

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](#)

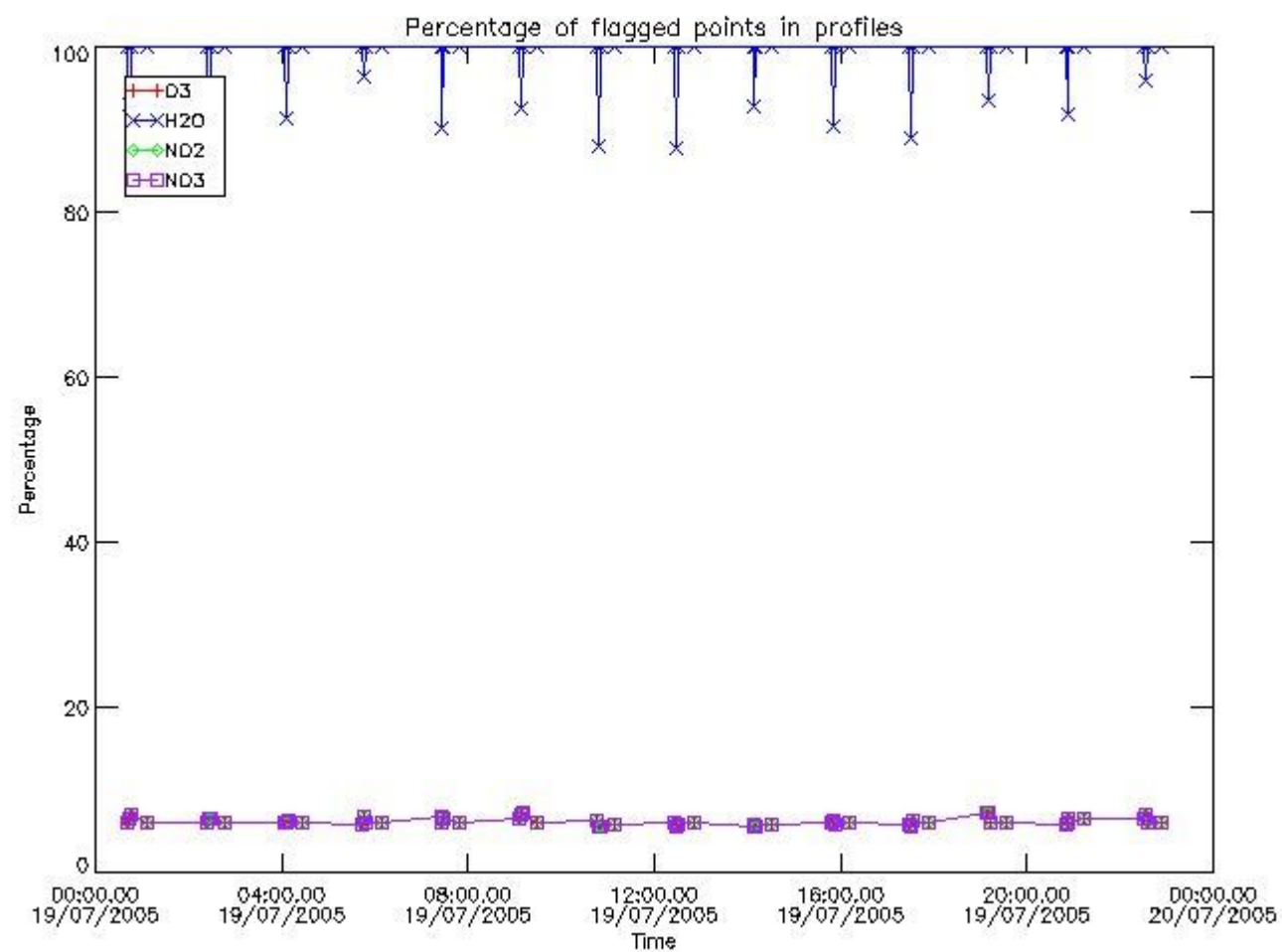
[6. Auxiliary Data Files used for the production reported in section 2](#)

161	GOM_NL__2PRFIN20050719_223009_000000872039_00115_17704_5260.N1	19-JUL-2005 22:30:09	Dark	86.500	30	46Eps Ori	1.6940	30000.	173	17704	No
162	GOM_NL__2PRFIN20050719_223222_000000872039_00115_17704_5261.N1	19-JUL-2005 22:32:22	Dark	86.500	7	19Bet Ori	0.10000	14000.	173	17704	No
163	GOM_NL__2PRFIN20050719_223446_000000852039_00115_17704_5262.N1	19-JUL-2005 22:34:46	Dark	84.500	101	11Alp Lep	2.5820	7000.0	169	17704	No
164	GOM_NL__2PRFIN20050719_225410_000000862039_00116_17705_5252.N1	19-JUL-2005 22:54:10	Dark	85.500	135	Bet Hyi	2.8200	5800.0	171	17705	No
165	GOM_NL__2PRFIN20050719_230959_000000922039_00116_17705_5253.N1	19-JUL-2005 23:09:59	Twilight_stray	91.500	38	20Eps Sgr	1.8360	11000.	183	17705	No
166	GOM_NL__2PRFIN20050719_231225_000000892039_00116_17705_5254.N1	19-JUL-2005 23:12:25	Bright	89.000	137	22Lam Sgr	2.8240	4400.0	178	17705	No
167	GOM_NL__2PRFIN20050719_232111_000000862039_00116_17705_5255.N1	19-JUL-2005 23:21:11	Bright	85.500	126	60Bet Oph	2.7700	4250.0	171	17705	No
168	GOM_NL__2PRFIN20050719_232330_000000872039_00116_17705_5256.N1	19-JUL-2005 23:23:30	Bright	86.500	59	55Alp Oph	2.0800	8900.0	173	17705	No
169	GOM_NL__2PRFIN20050719_232933_000000842039_00116_17705_5257.N1	19-JUL-2005 23:29:33	Bright	83.500	133	40Zet Her	2.8070	6000.0	167	17705	No
170	GOM_NL__2PRFIN20050719_233428_000000852039_00116_17705_5258.N1	19-JUL-2005 23:34:28	Bright	84.500	130	23Bet Dra	2.7990	5800.0	169	17705	No
171	GOM_NL__2PRFIN20050719_233736_000000862039_00116_17705_5259.N1	19-JUL-2005 23:37:36	Bright	86.000	119	14Eta Dra	2.7270	4700.0	172	17705	No
172	GOM_NL__2PRFIN20050719_234149_000000872039_00116_17705_5260.N1	19-JUL-2005 23:41:49	Bright	86.500	60	7Bet UMi	2.0810	3950.0	173	17705	No

3. Quality information per product

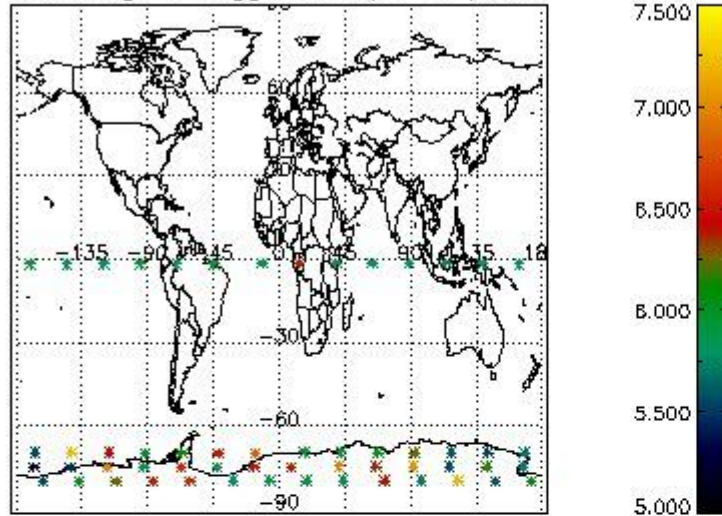
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

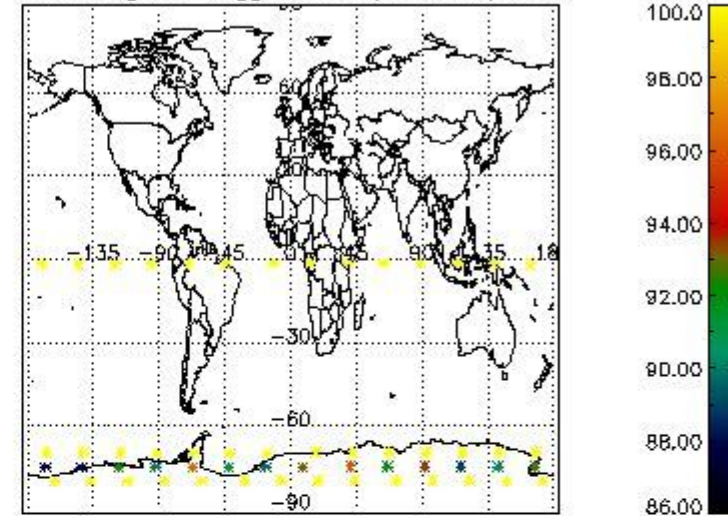


3.2 Plot quality information per product (world map)

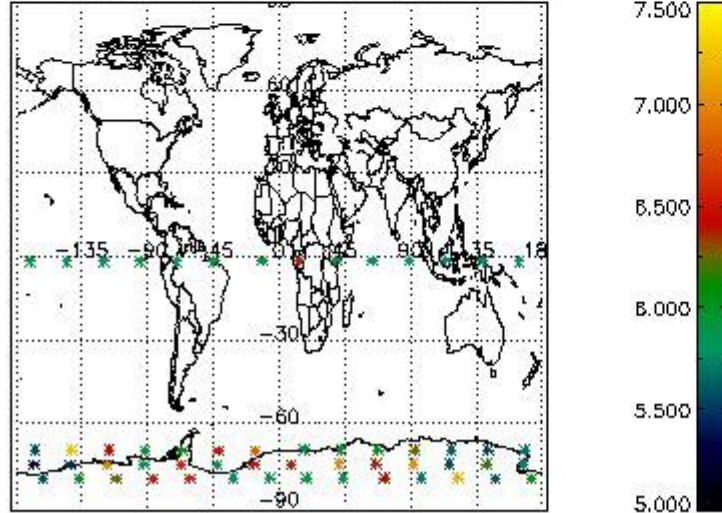
Percentage of flagged data per O3 profile



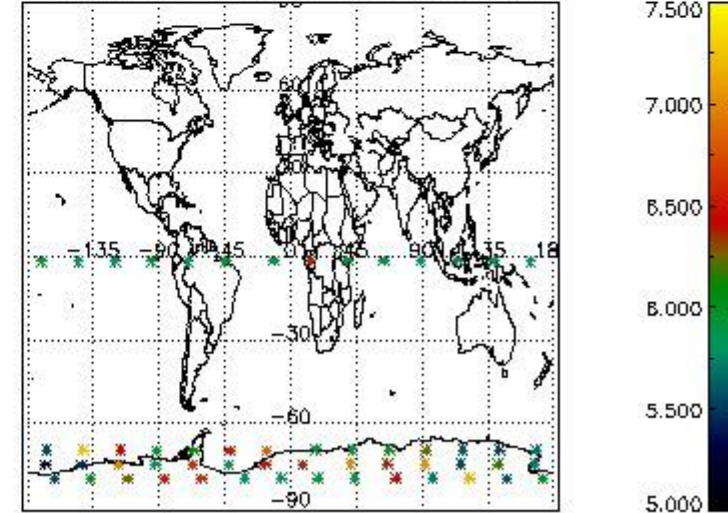
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

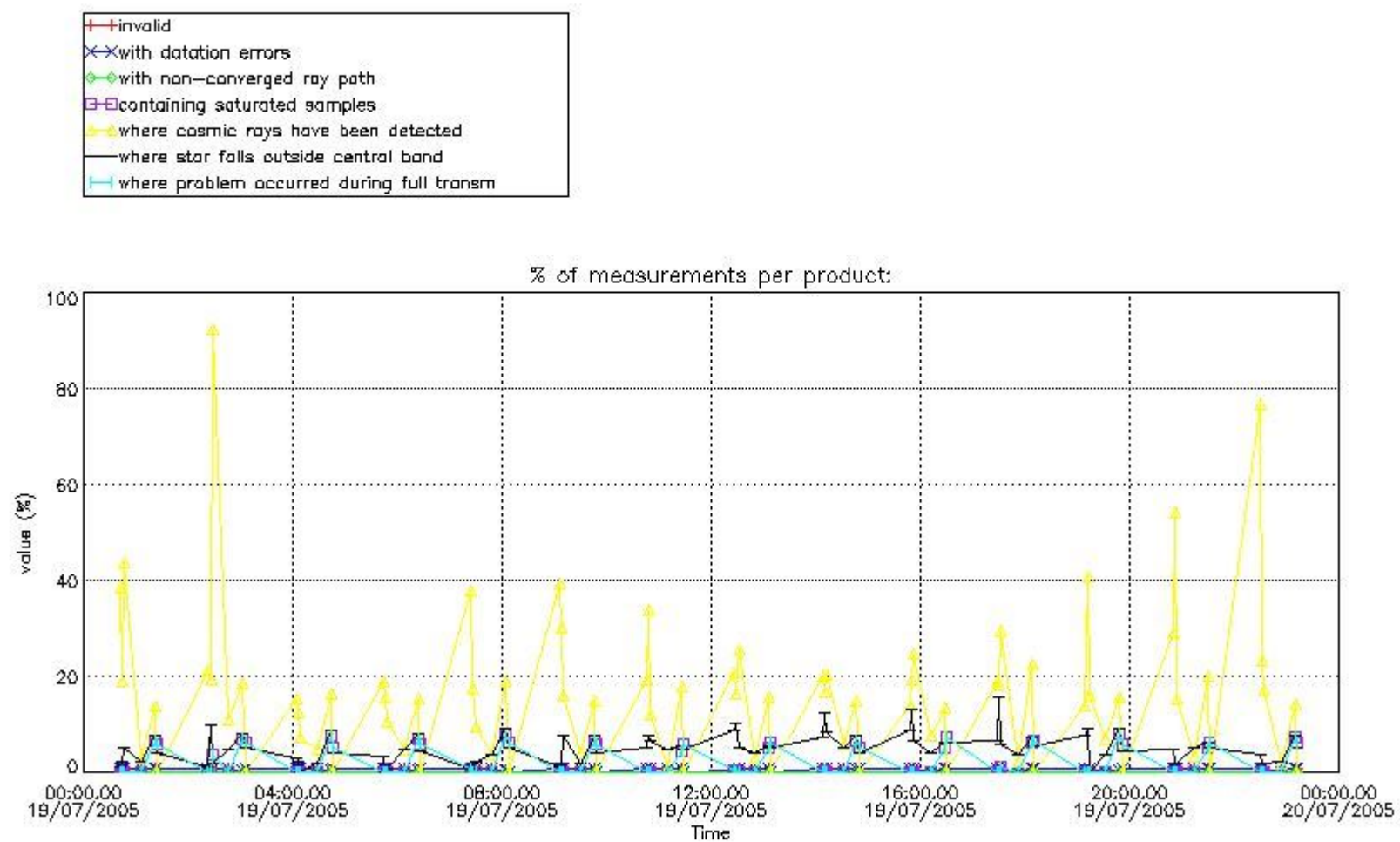


4. Level 1 quality information per product

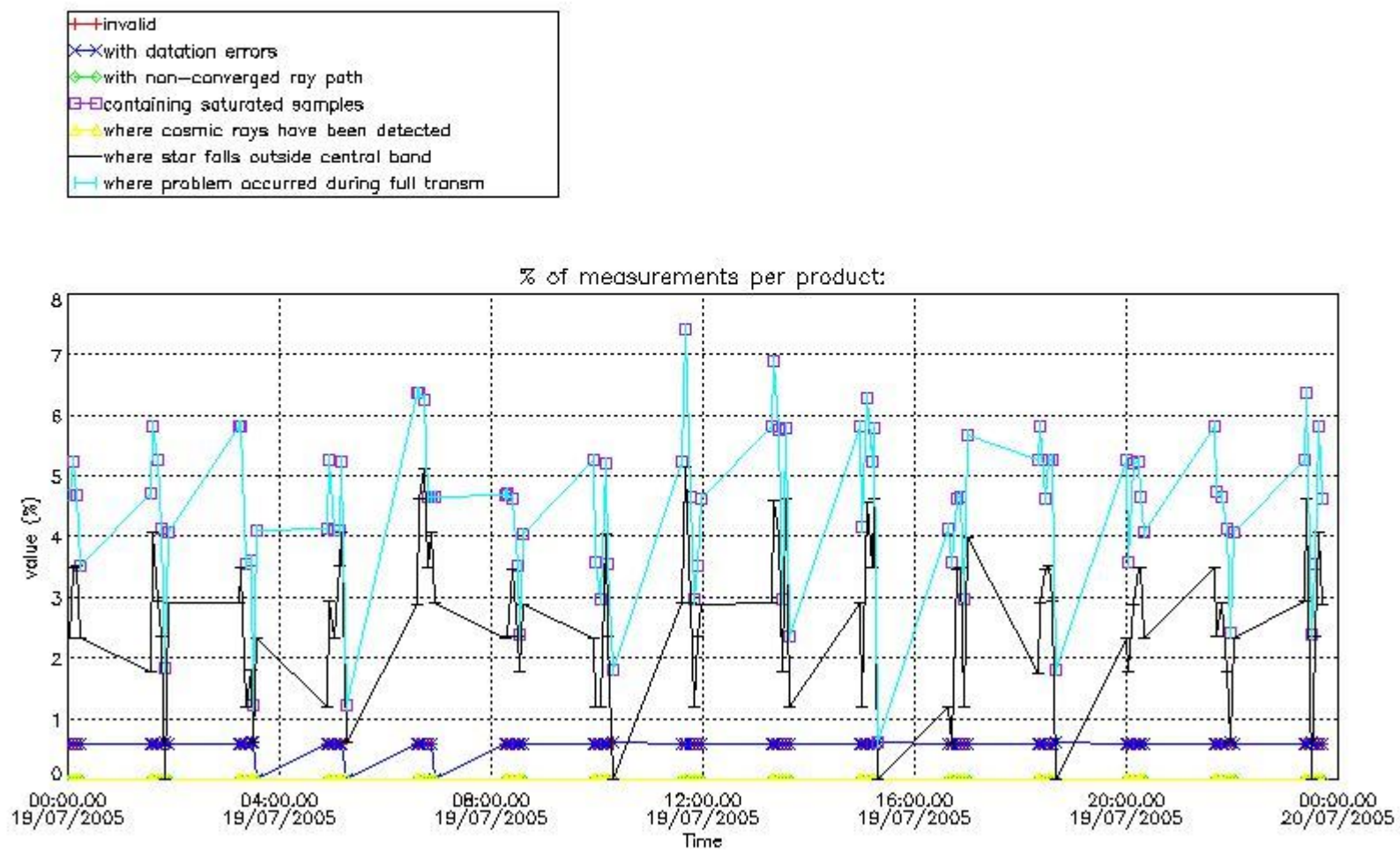
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes

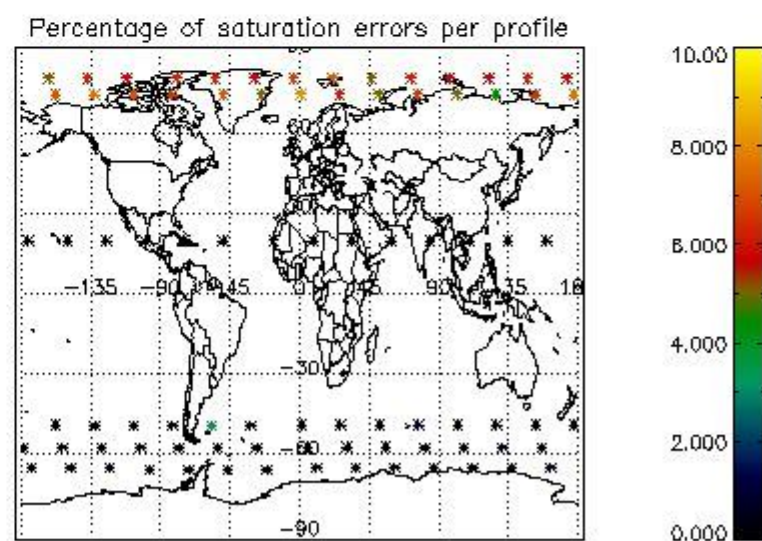
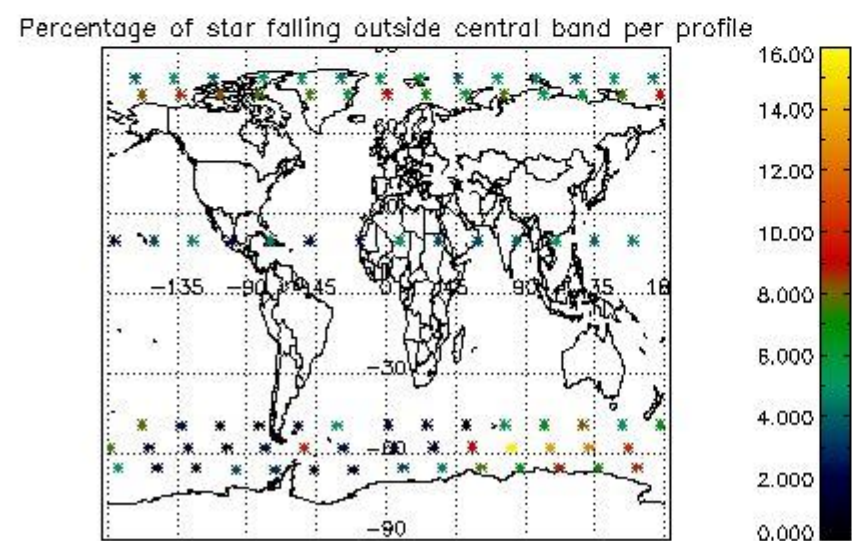
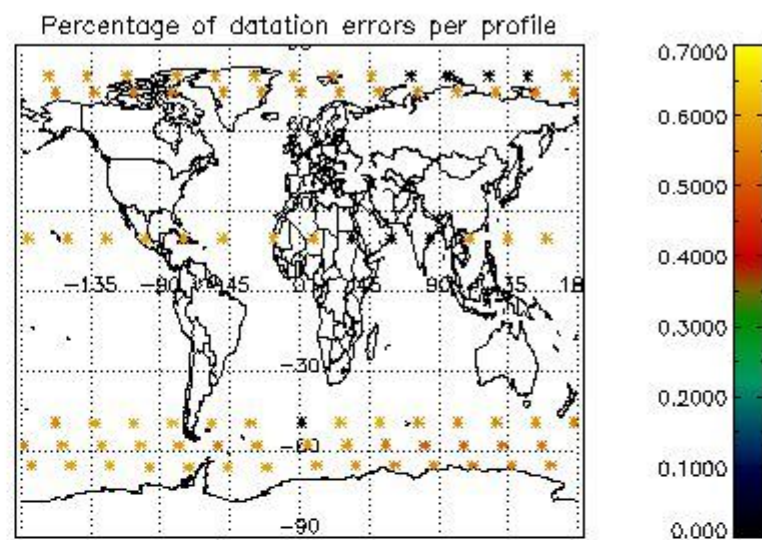
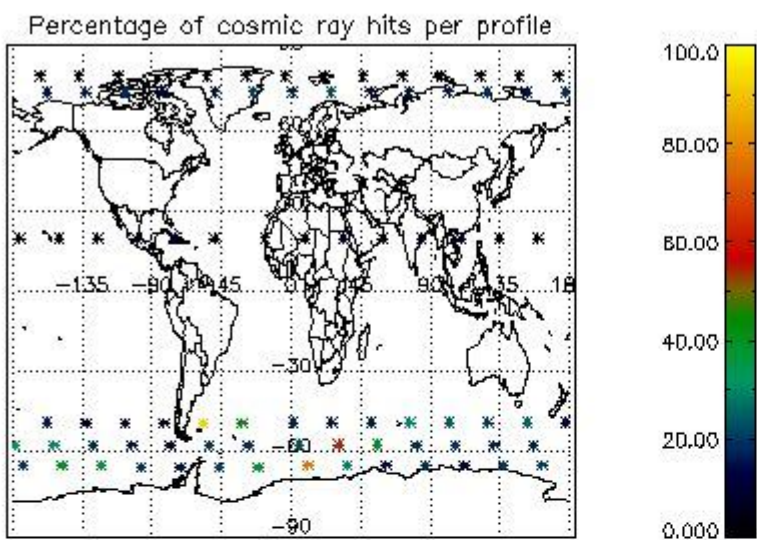


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

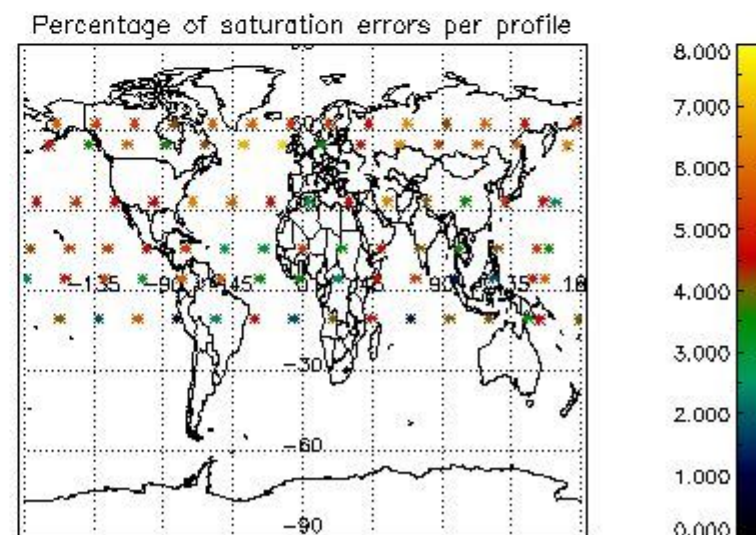
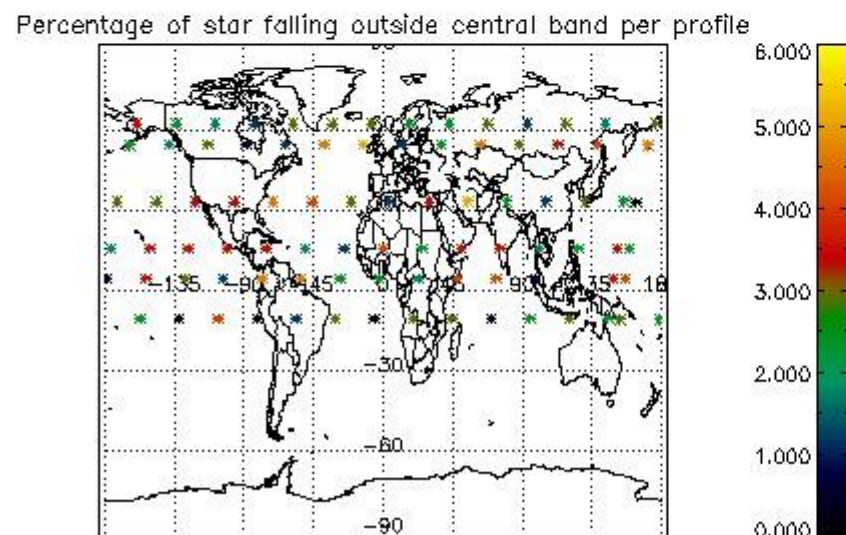
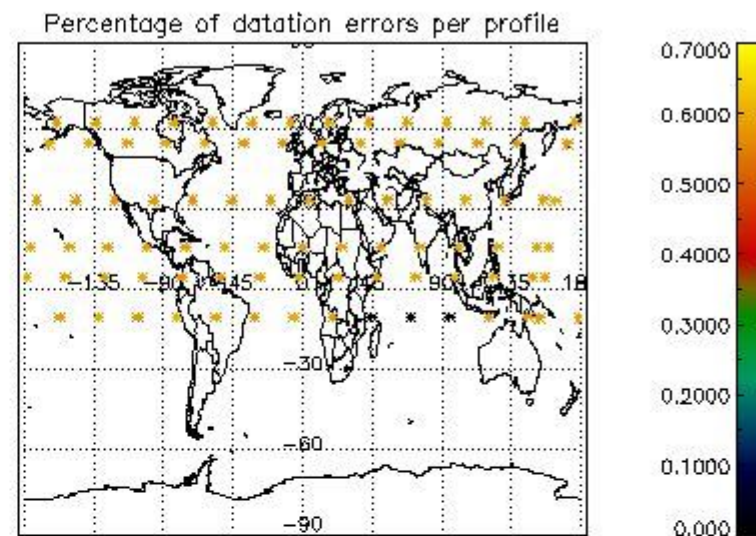
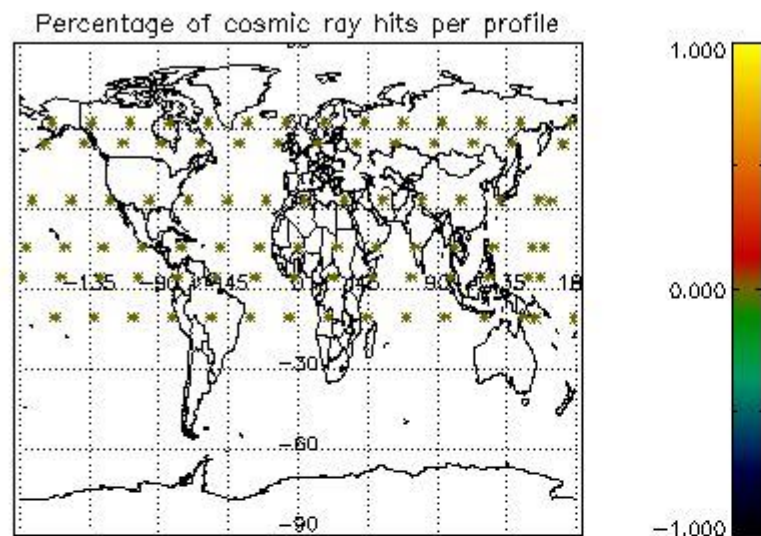


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

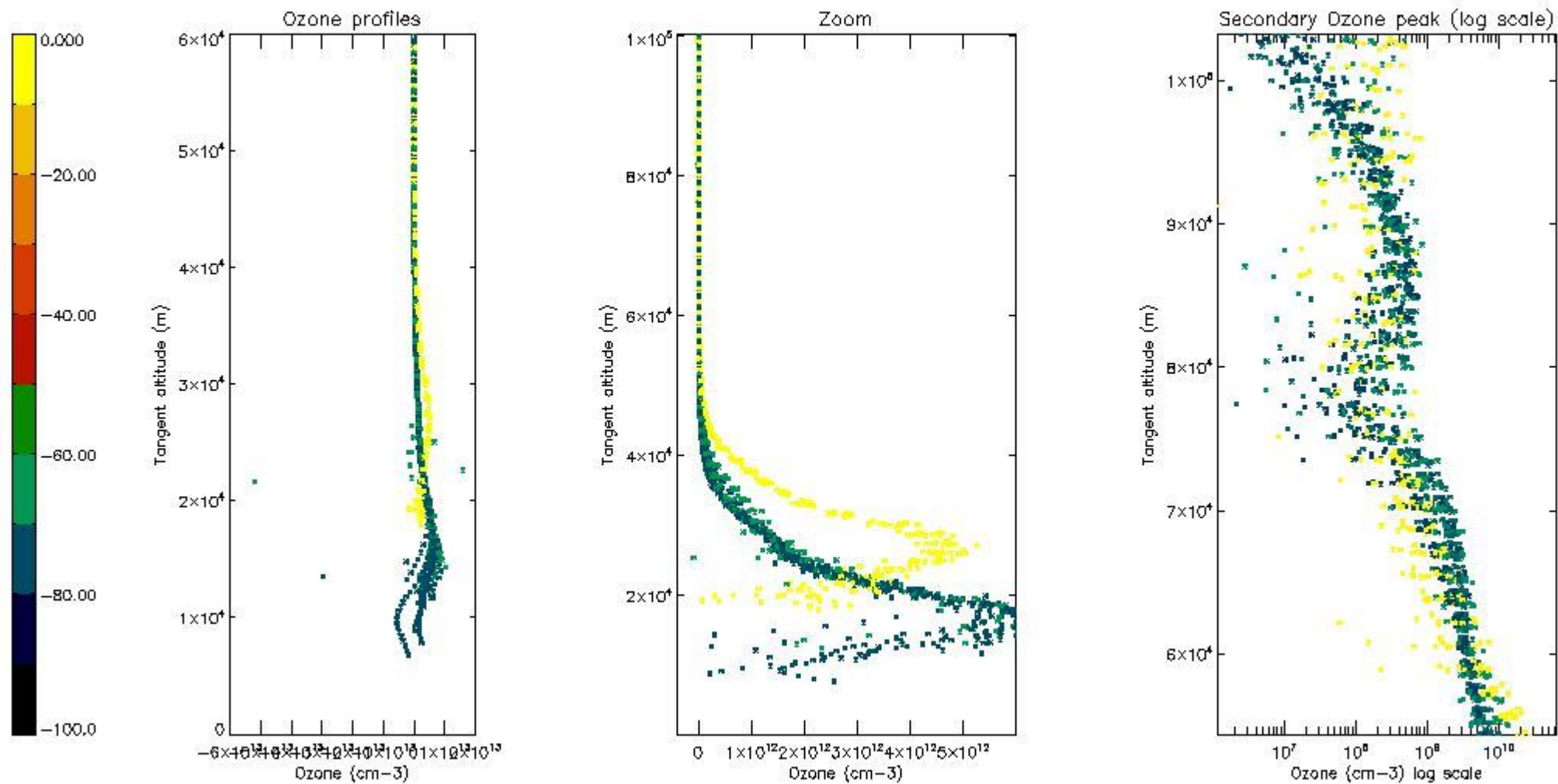
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	8

STD < 10	6
STD < 5	4

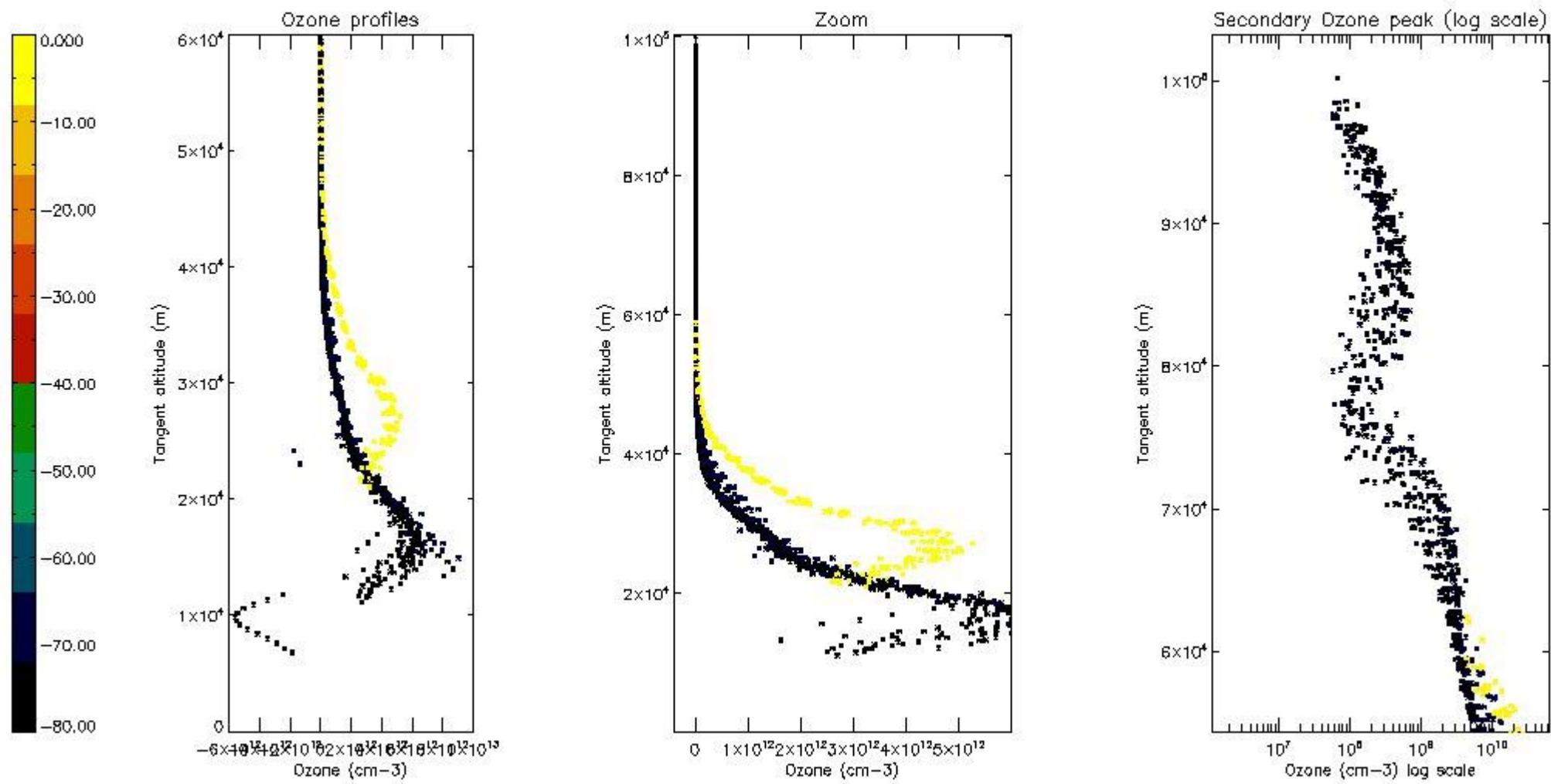
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



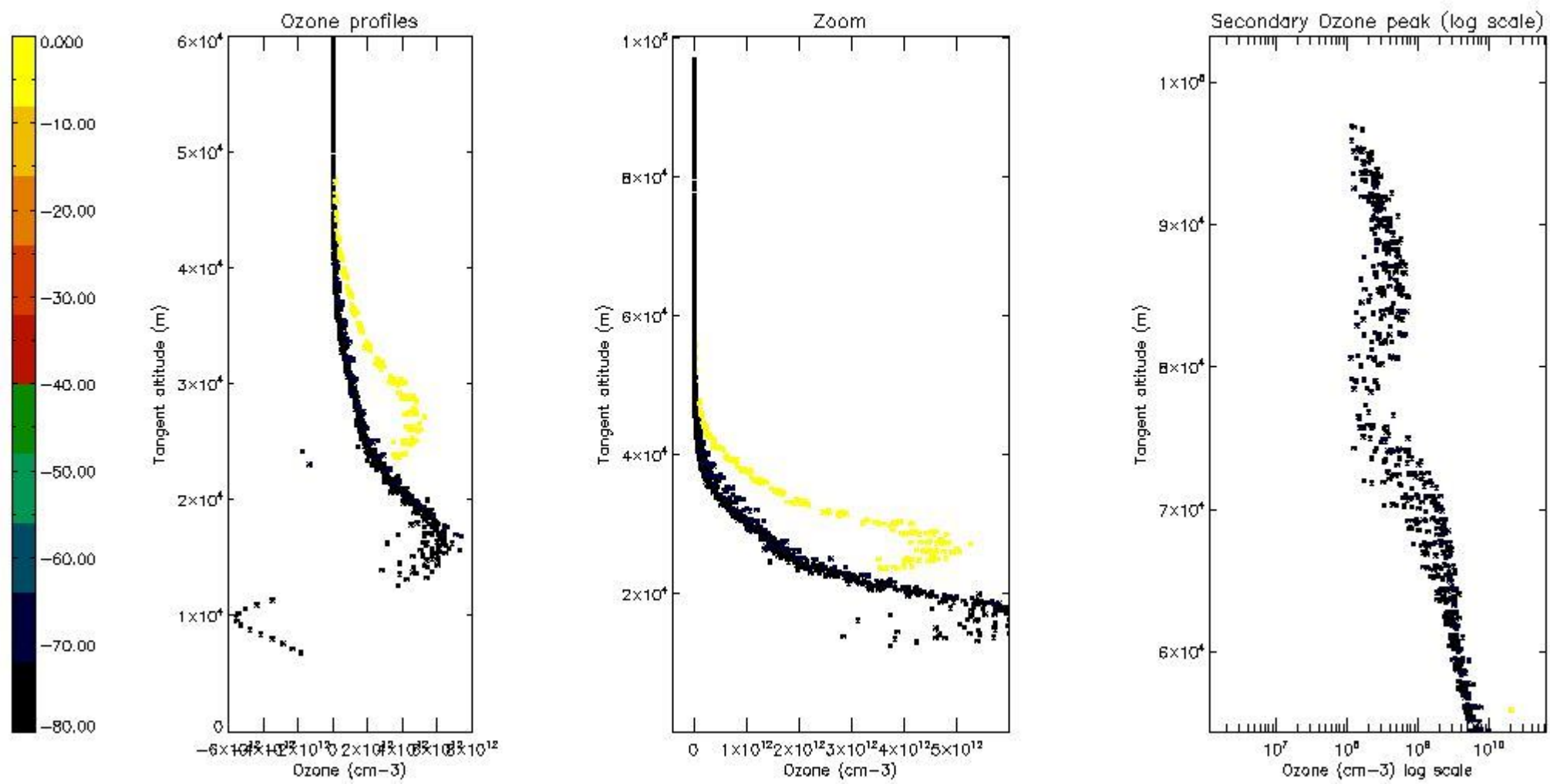
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



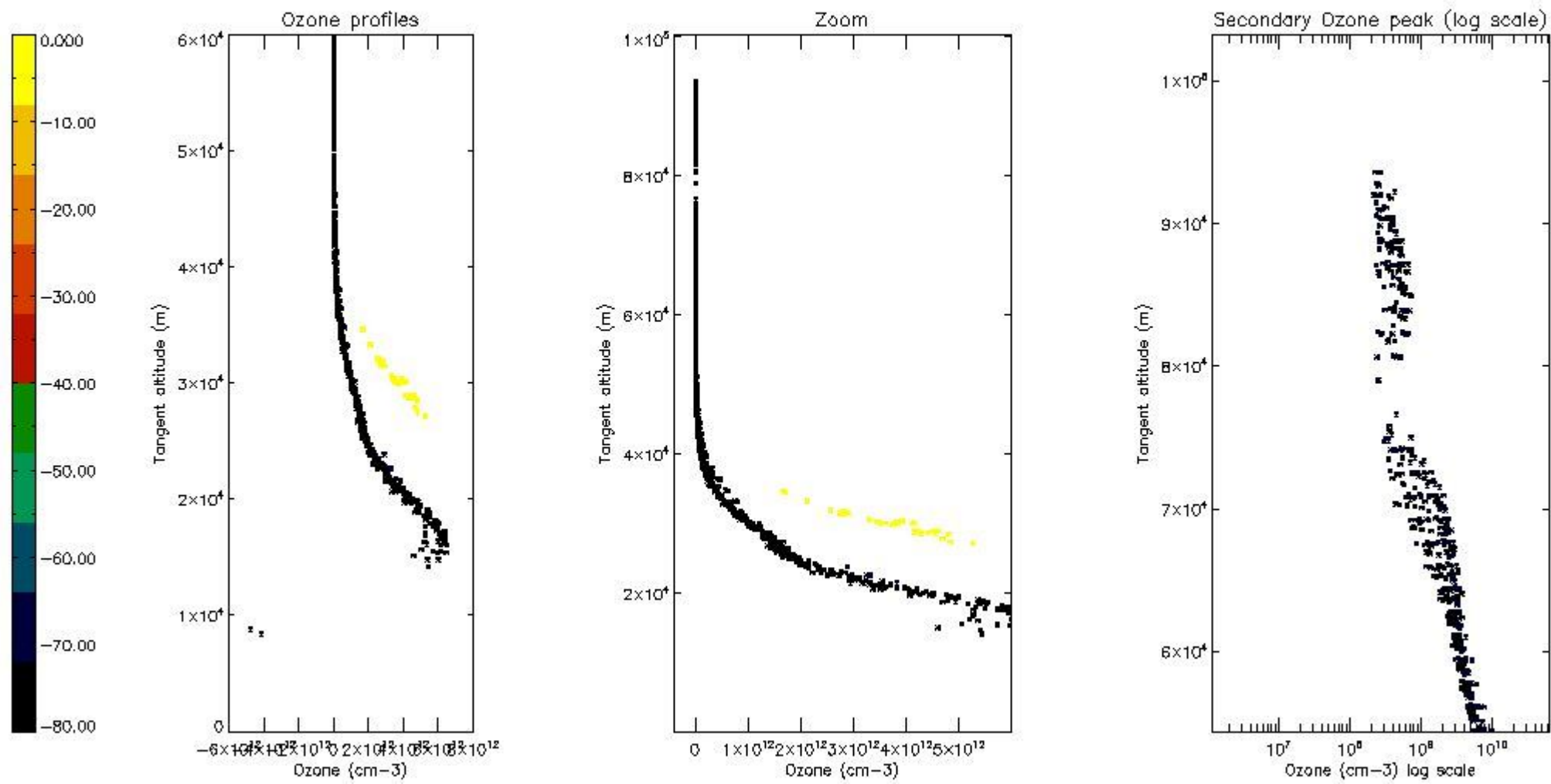
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



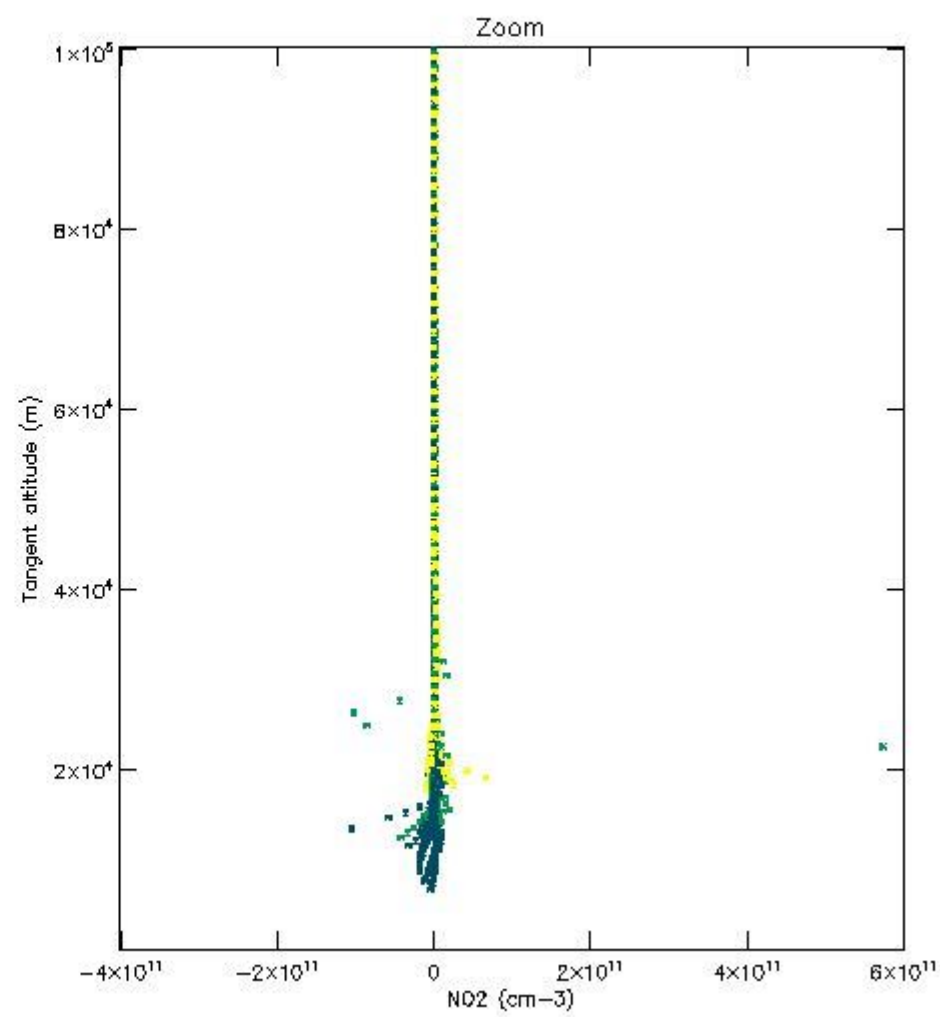
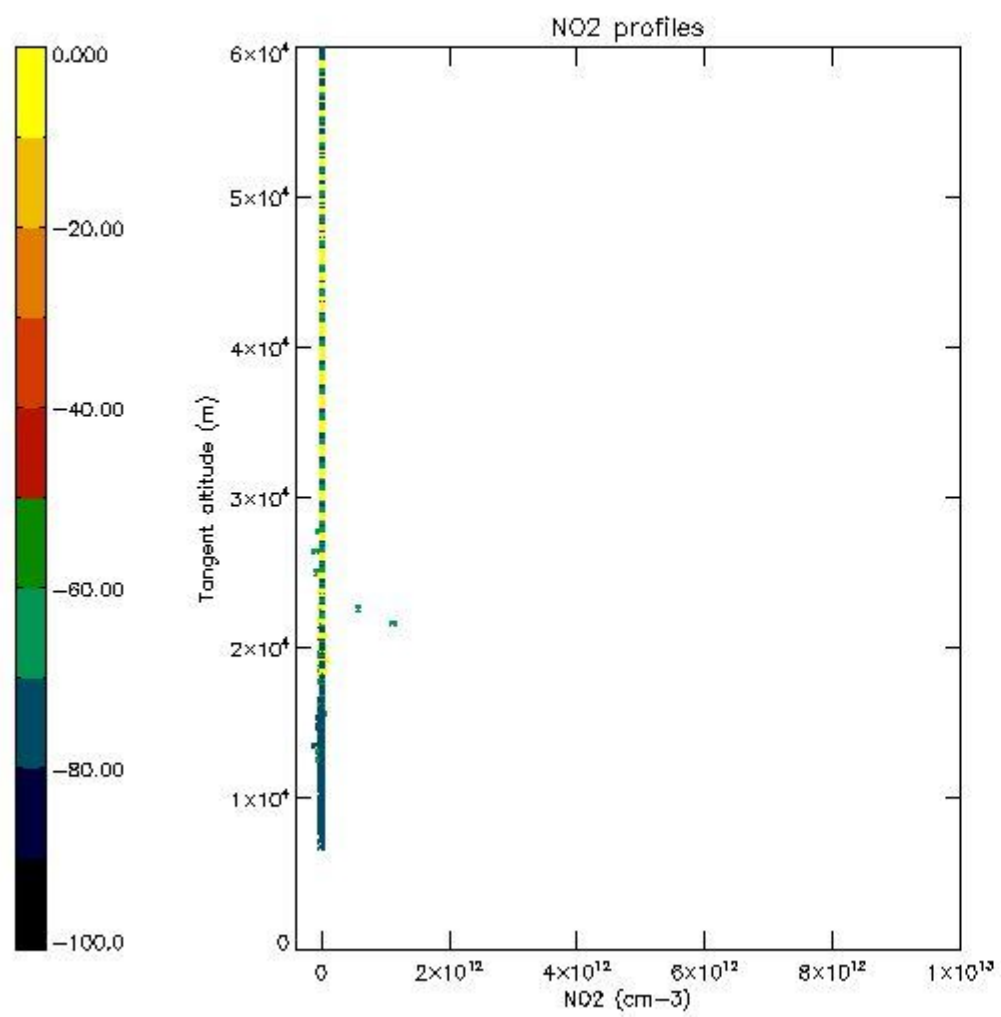
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



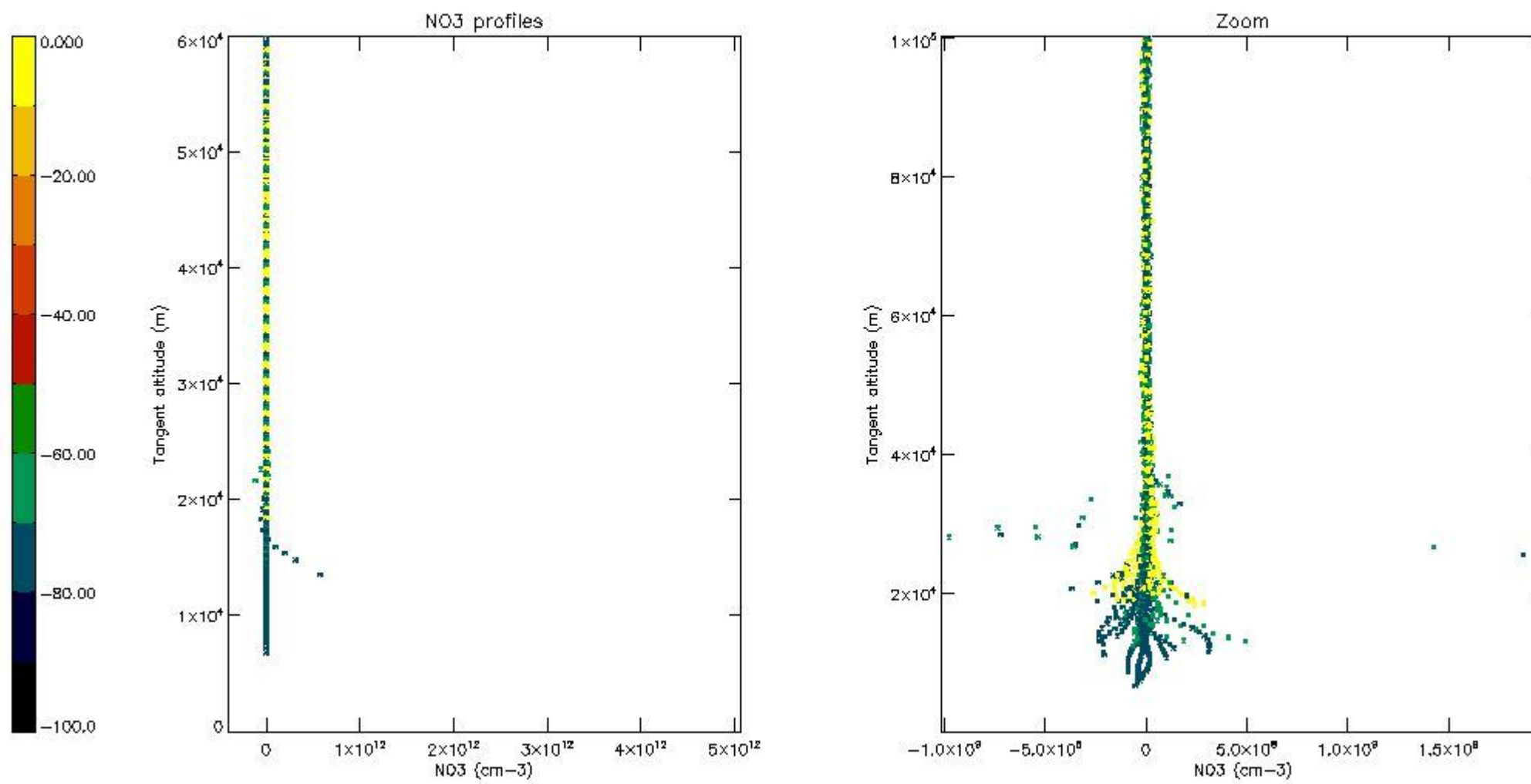
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

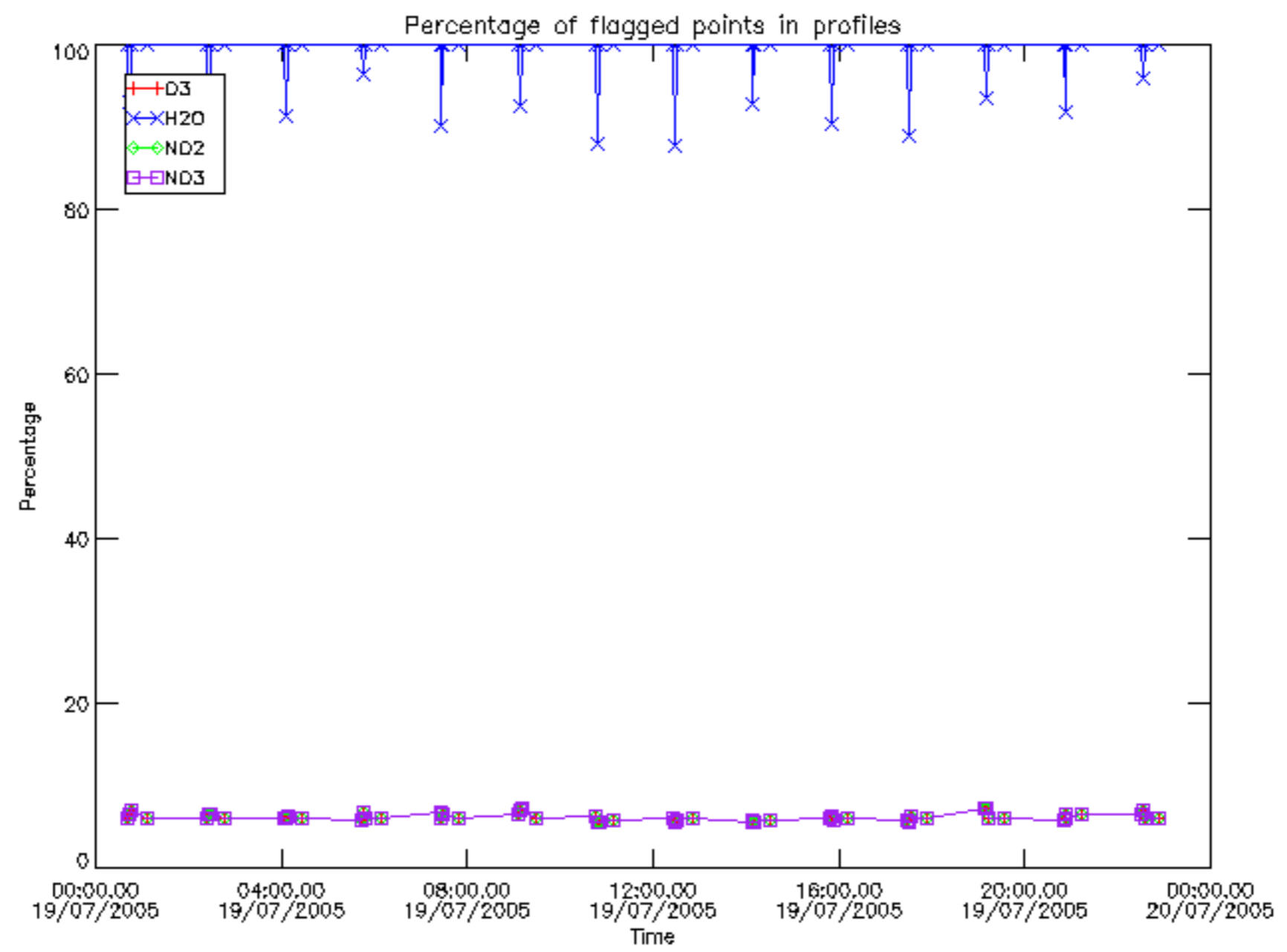
The colorbar represents the latitude.



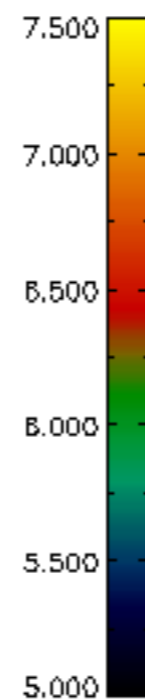
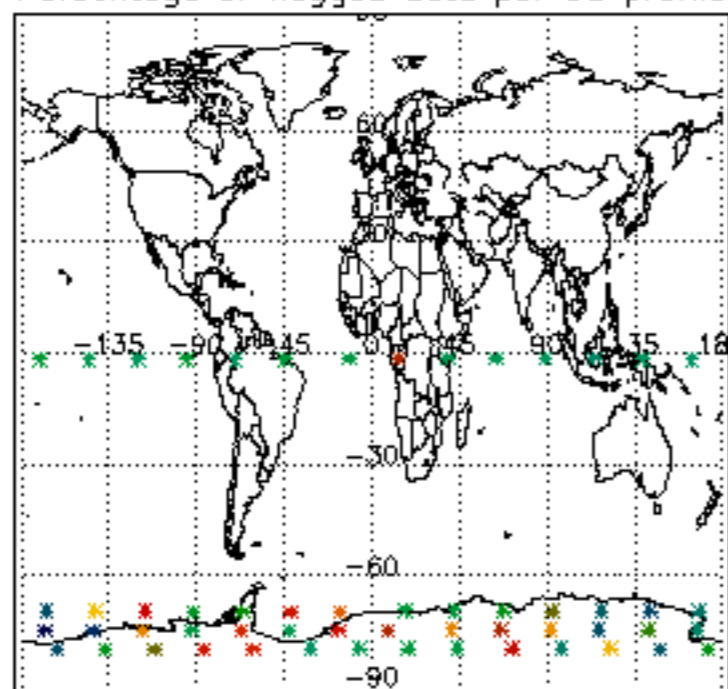
6. Auxiliary Data Files used for the production reported in section 2

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.

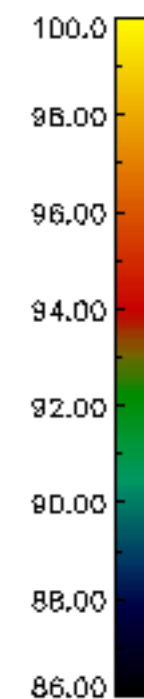
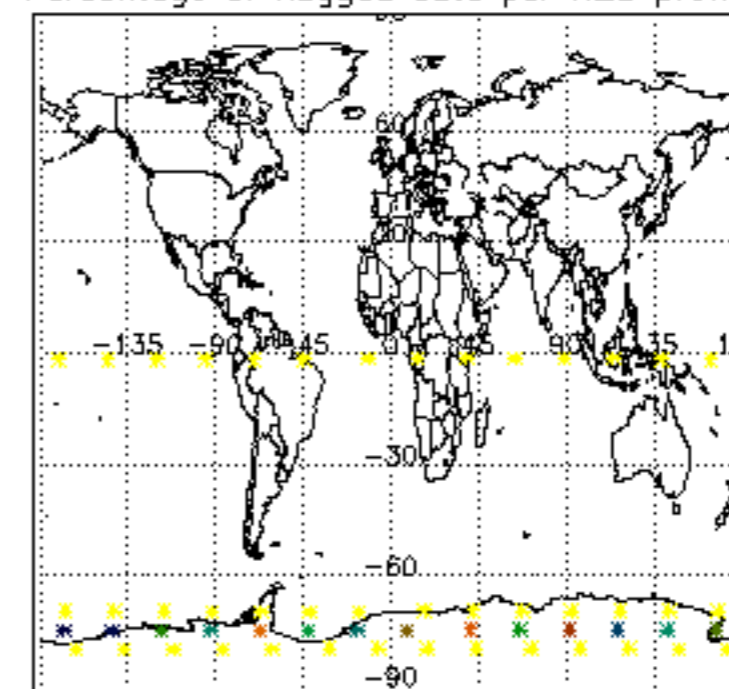
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	19-JUL-2005 00:01:05
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-JUL-2005 00:01:05
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-JUL-2005 00:01:05



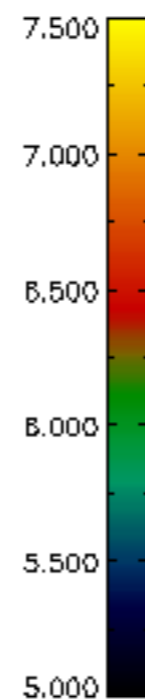
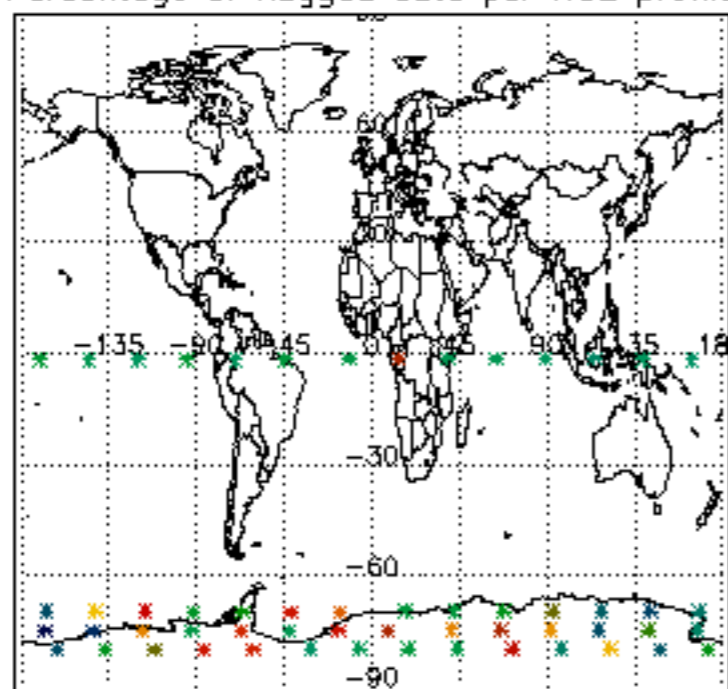
Percentage of flagged data per D3 profile



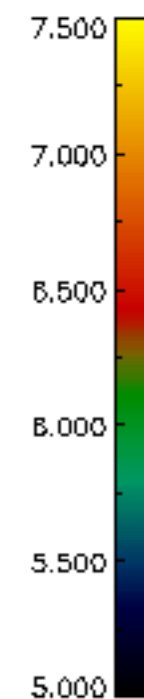
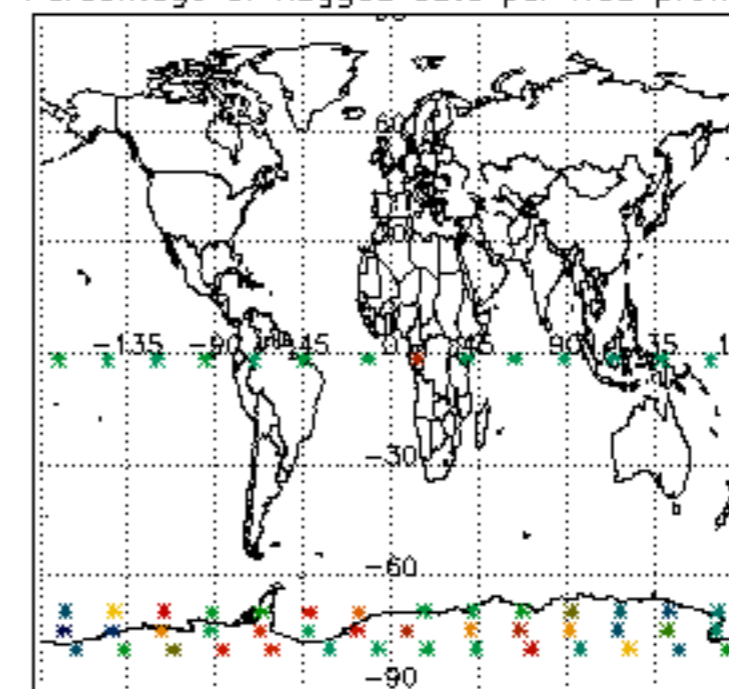
Percentage of flagged data per H2O profile

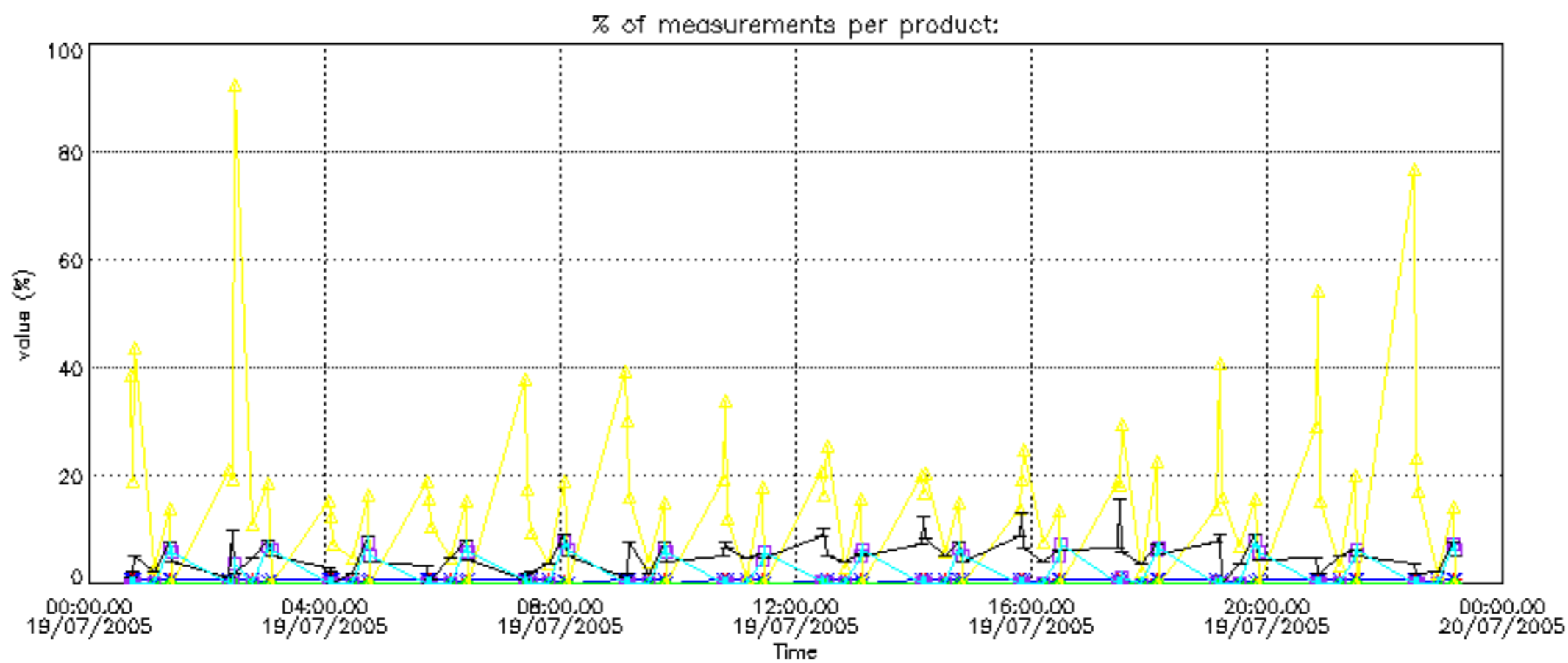


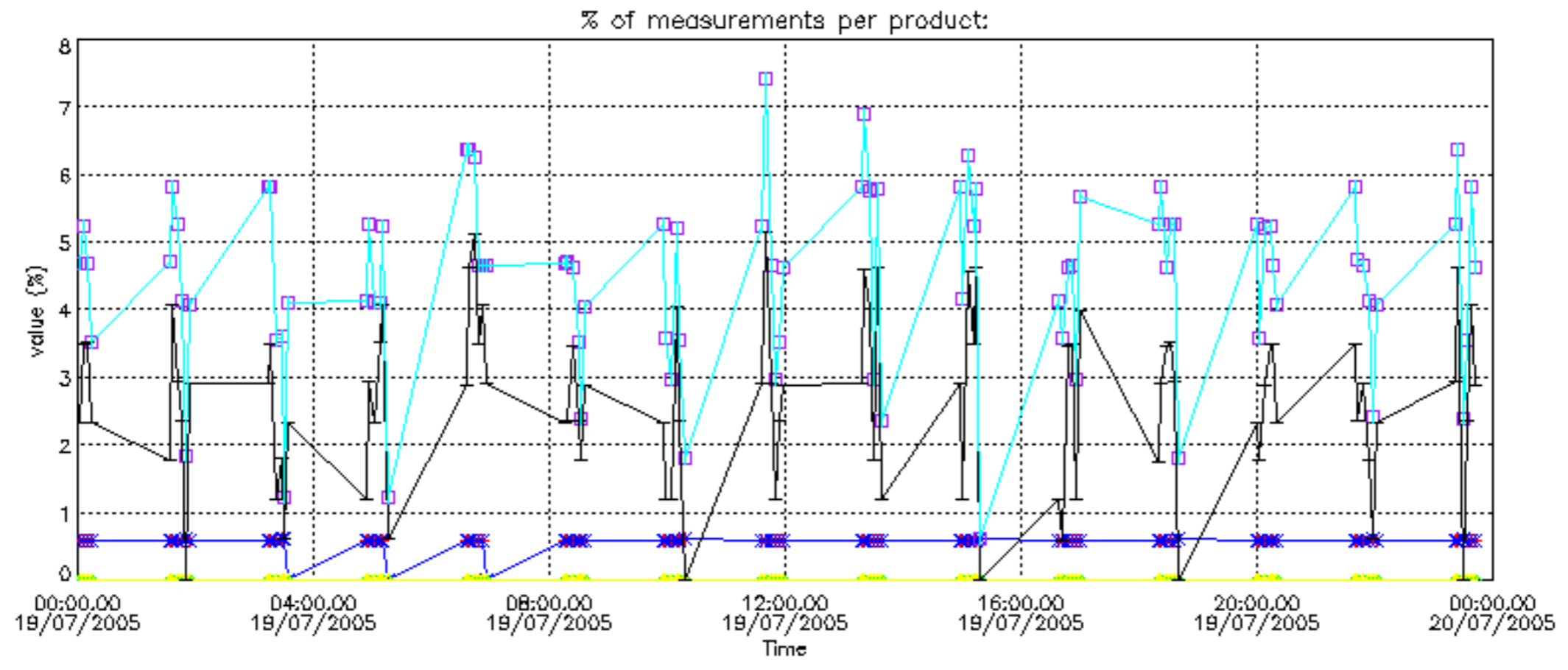
Percentage of flagged data per NO2 profile



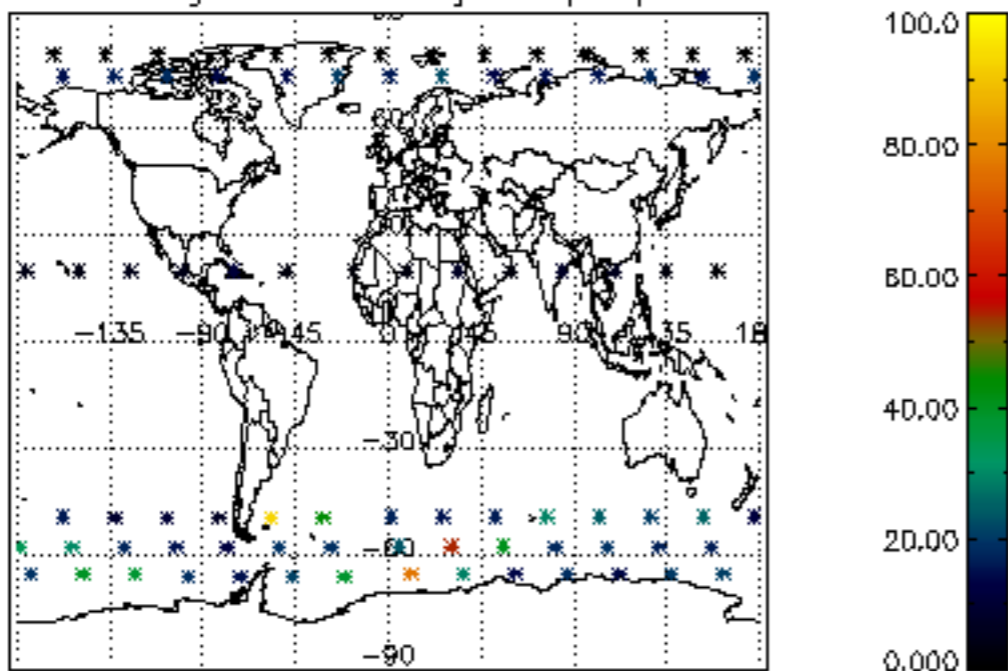
Percentage of flagged data per NO3 profile



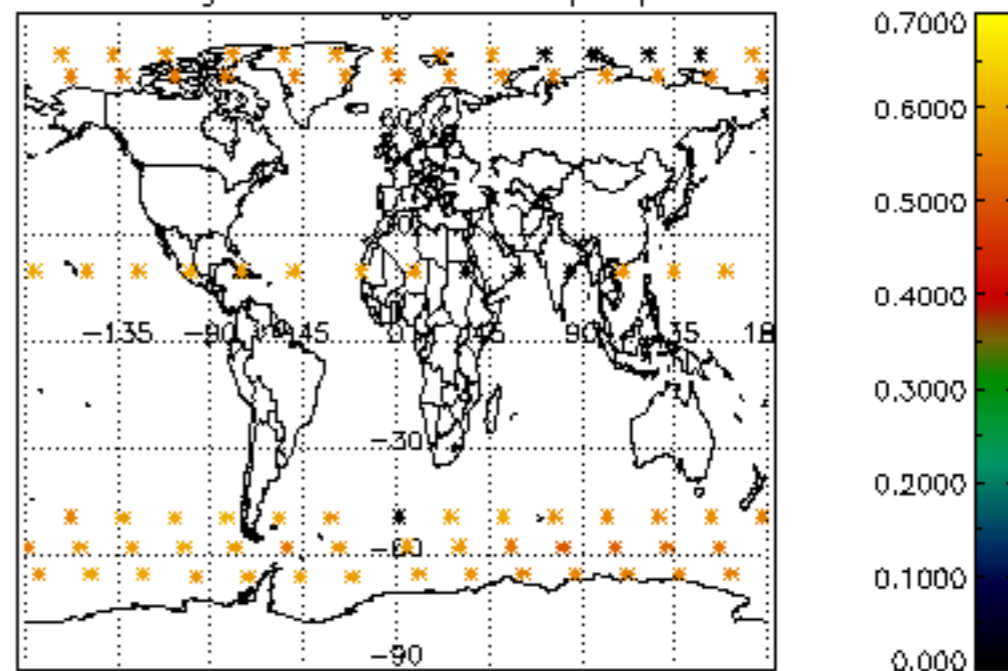




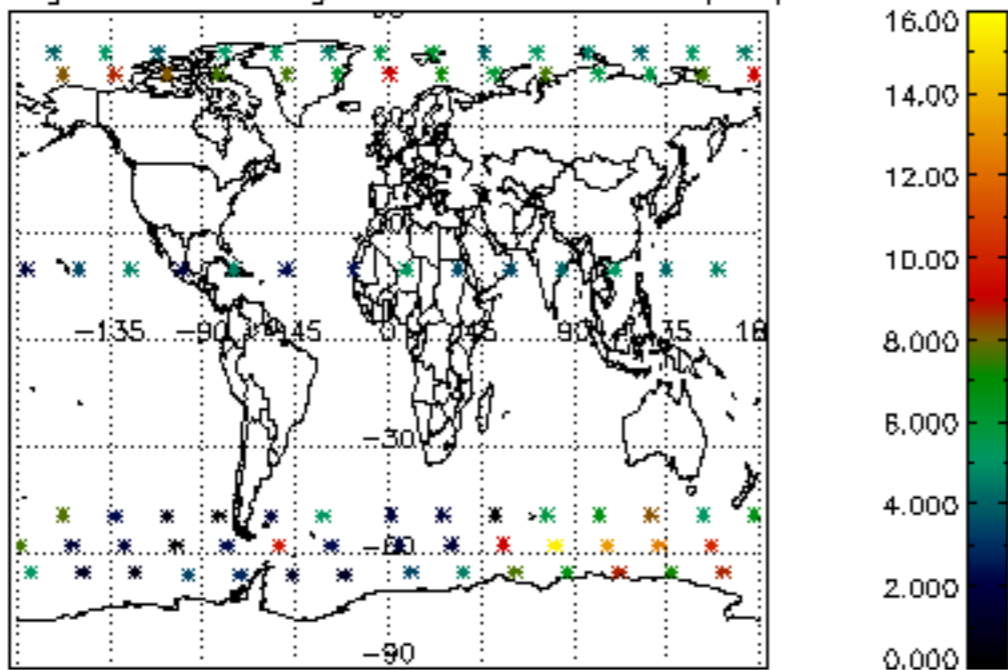
Percentage of cosmic ray hits per profile



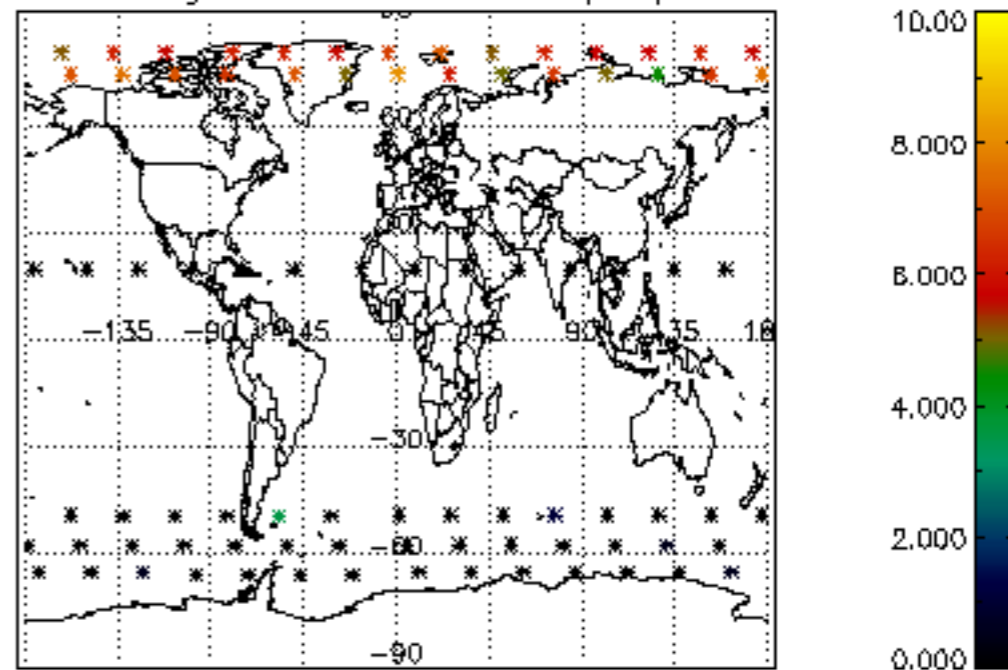
Percentage of datation errors per profile



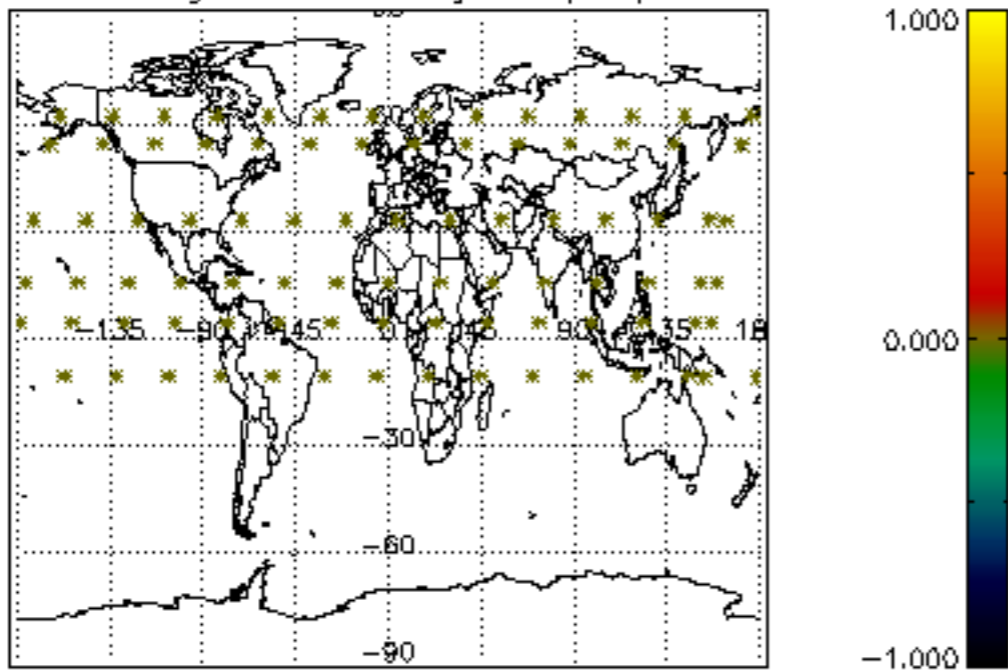
Percentage of star falling outside central band per profile



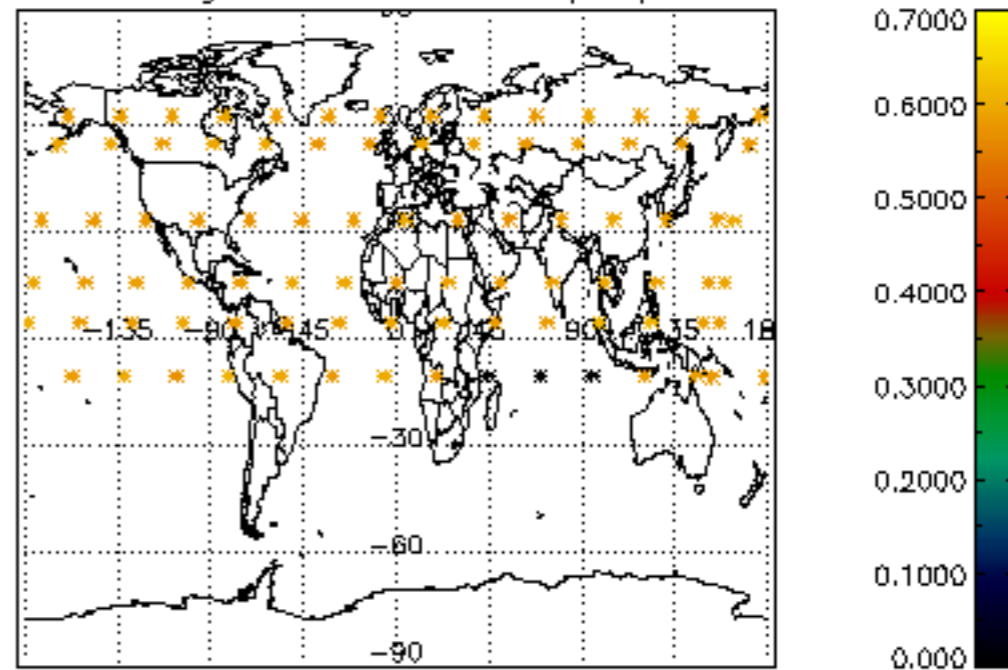
Percentage of saturation errors per profile



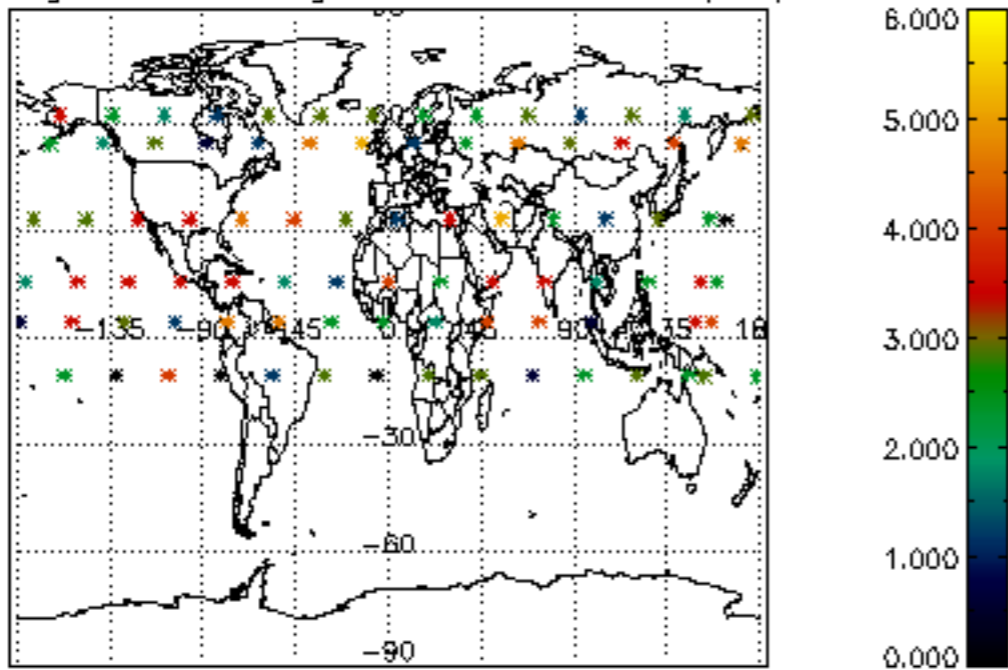
Percentage of cosmic ray hits per profile



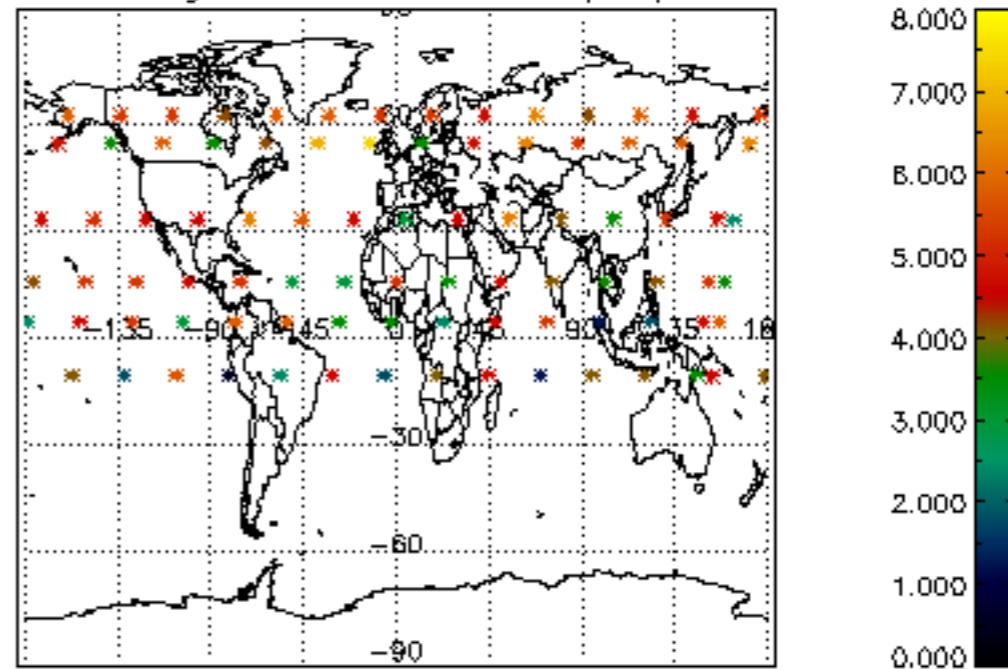
Percentage of datation errors per profile

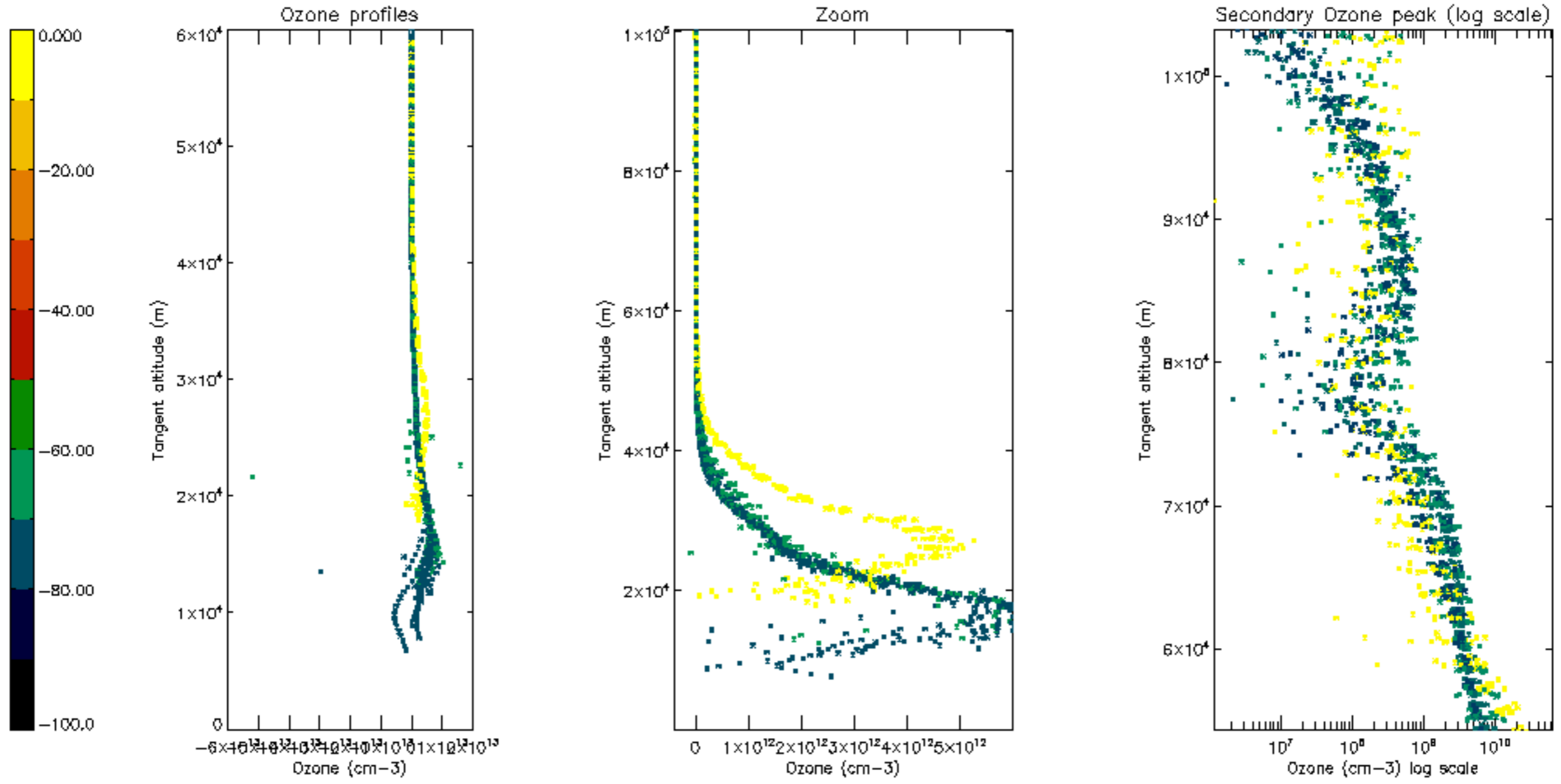


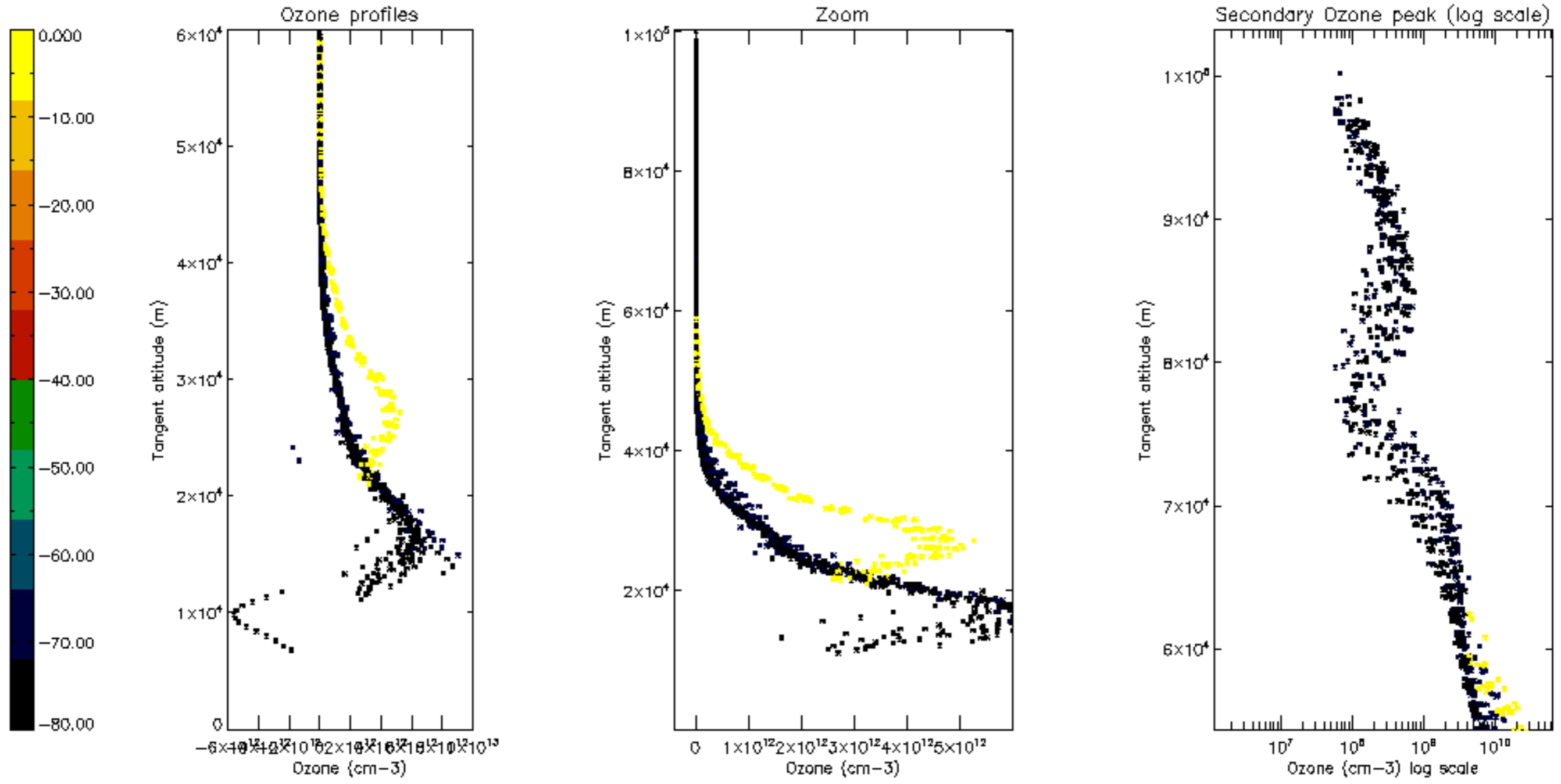
Percentage of star falling outside central band per profile

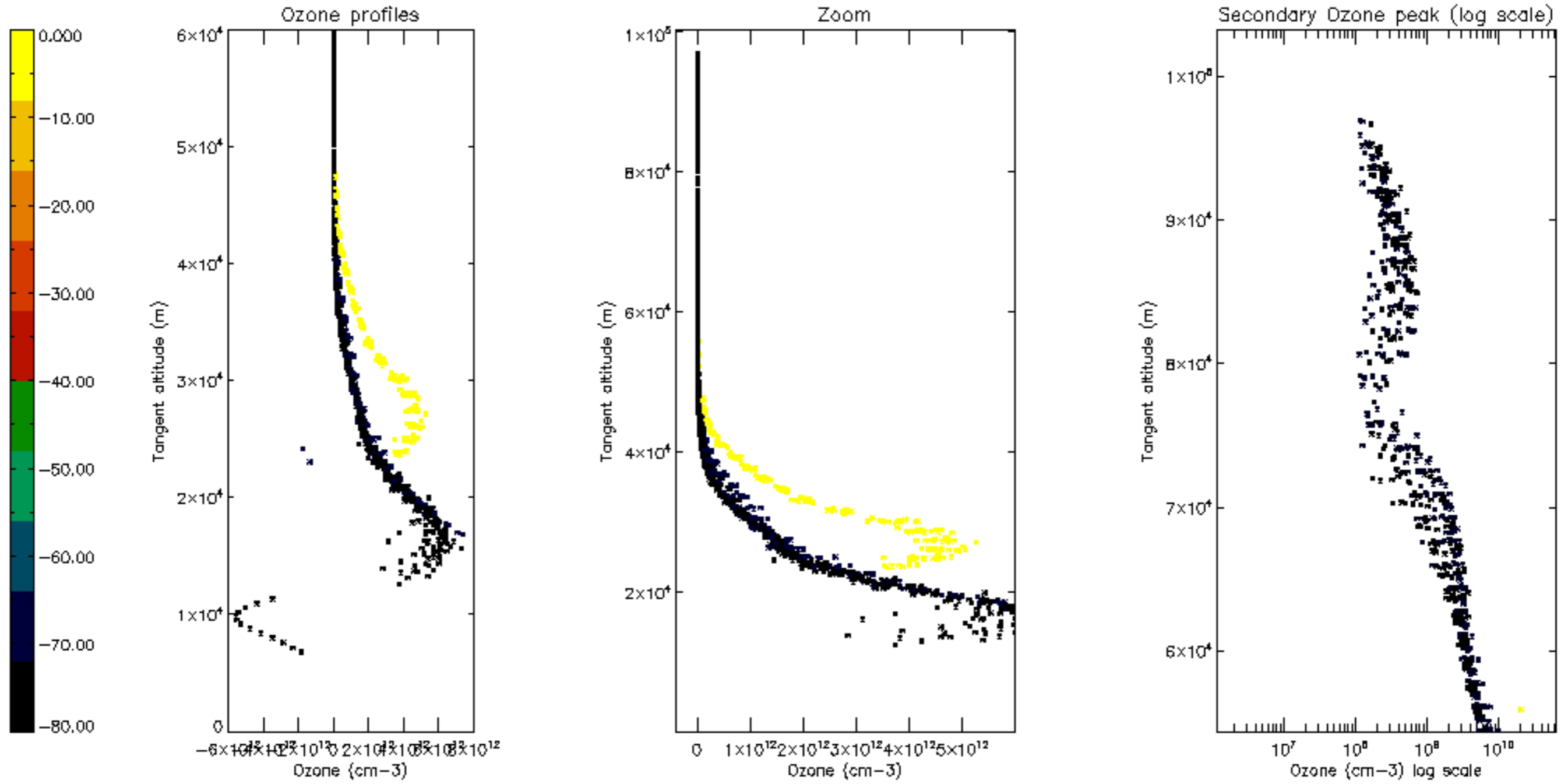


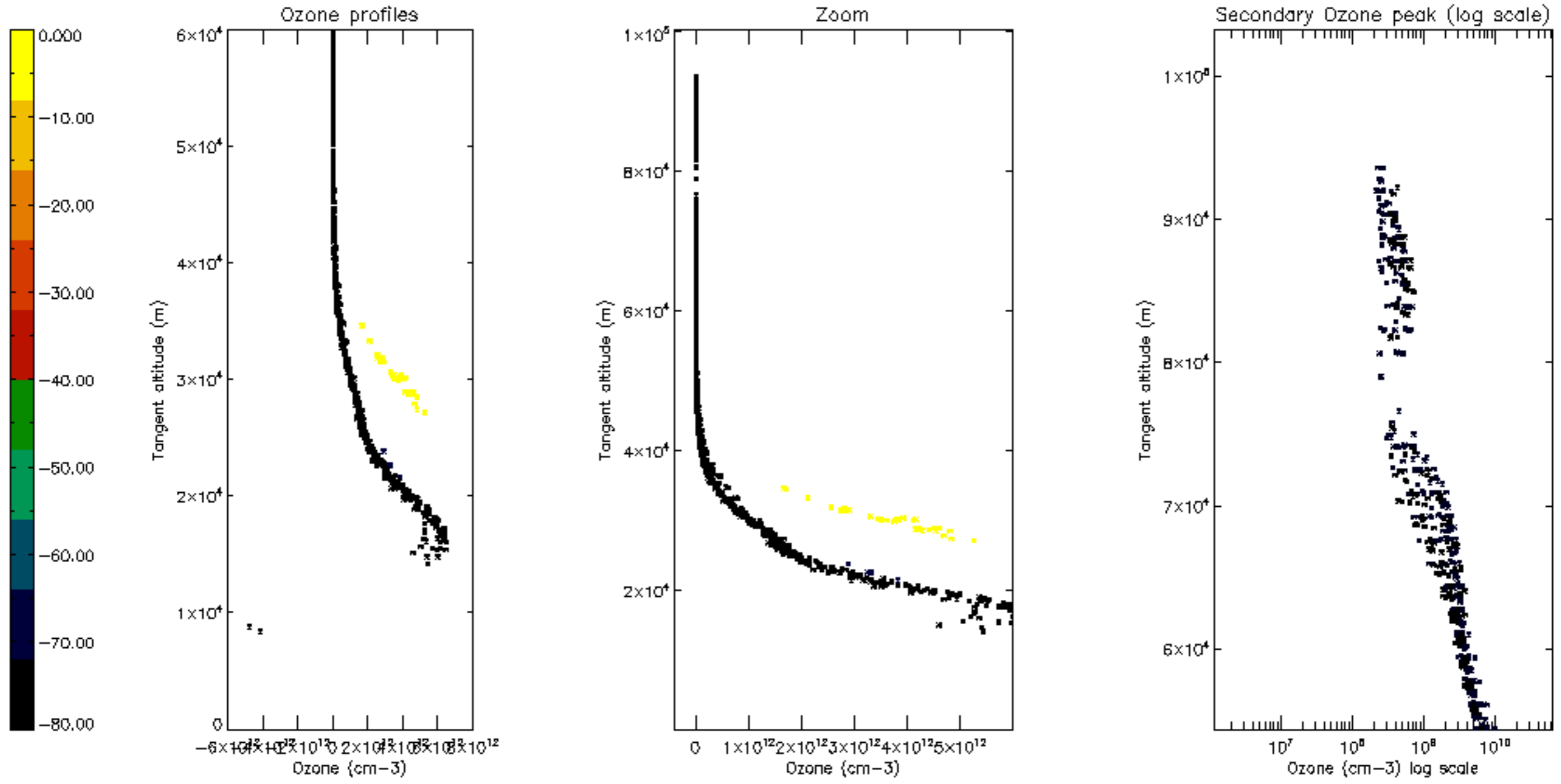
Percentage of saturation errors per profile

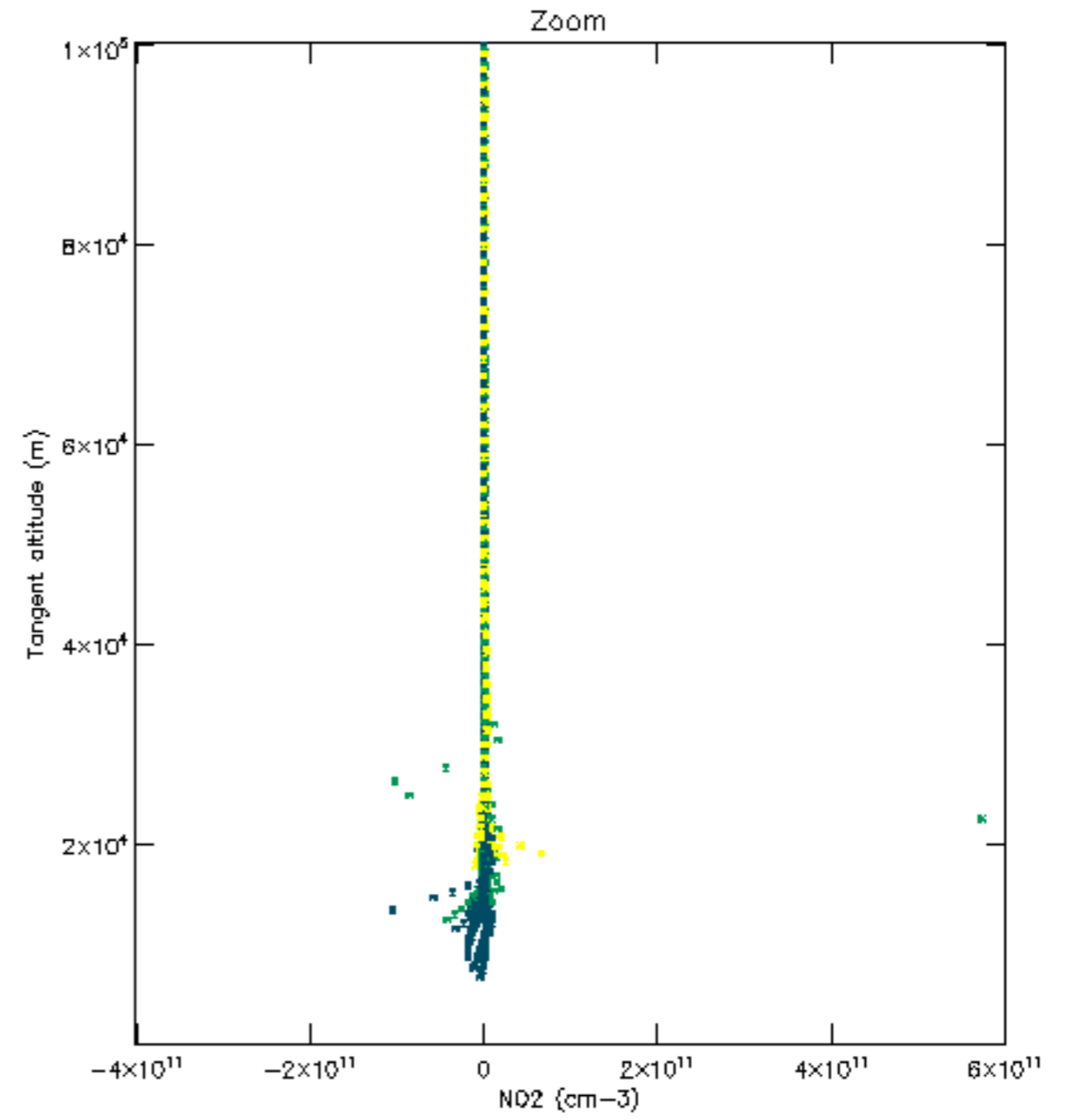
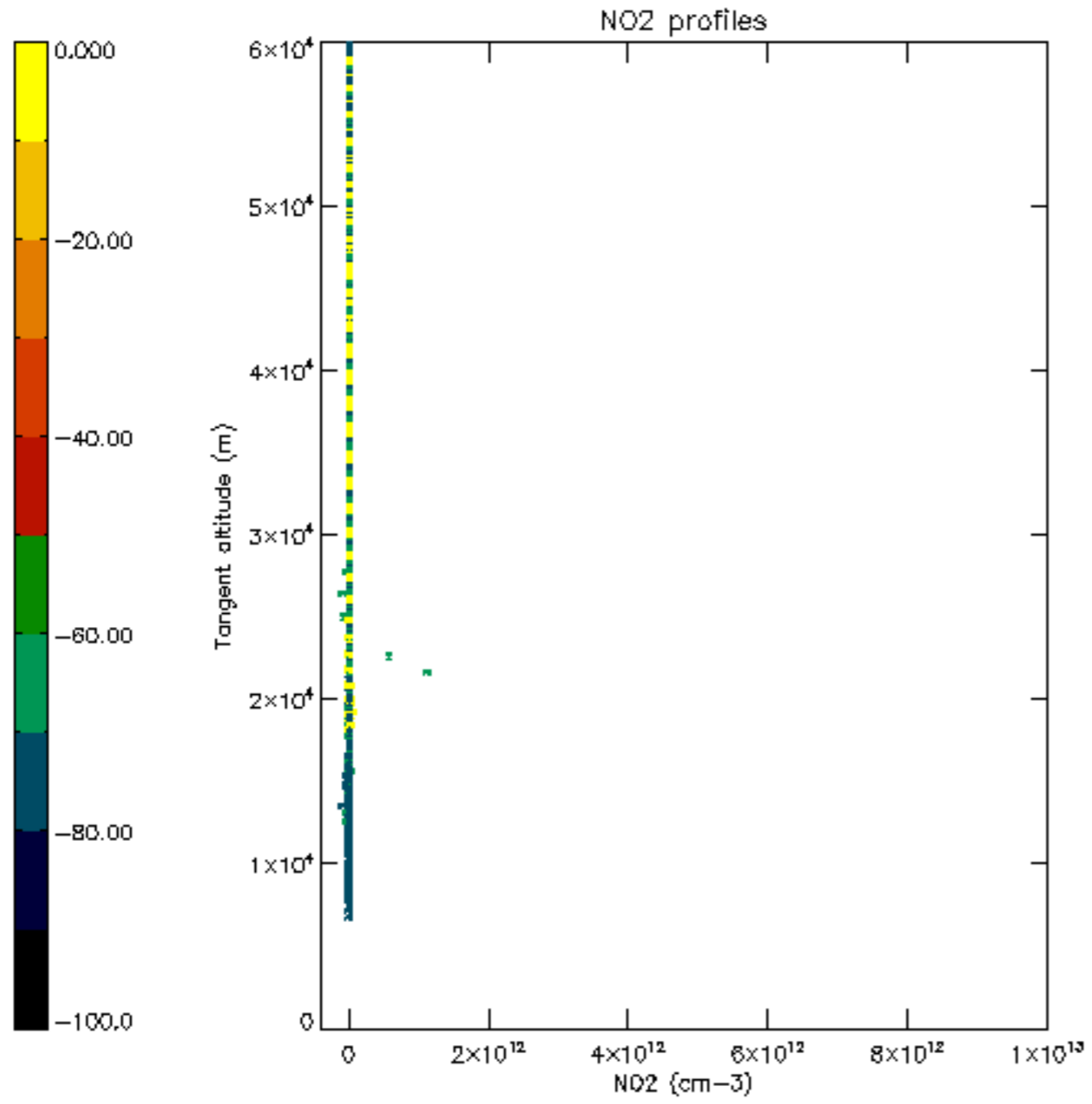


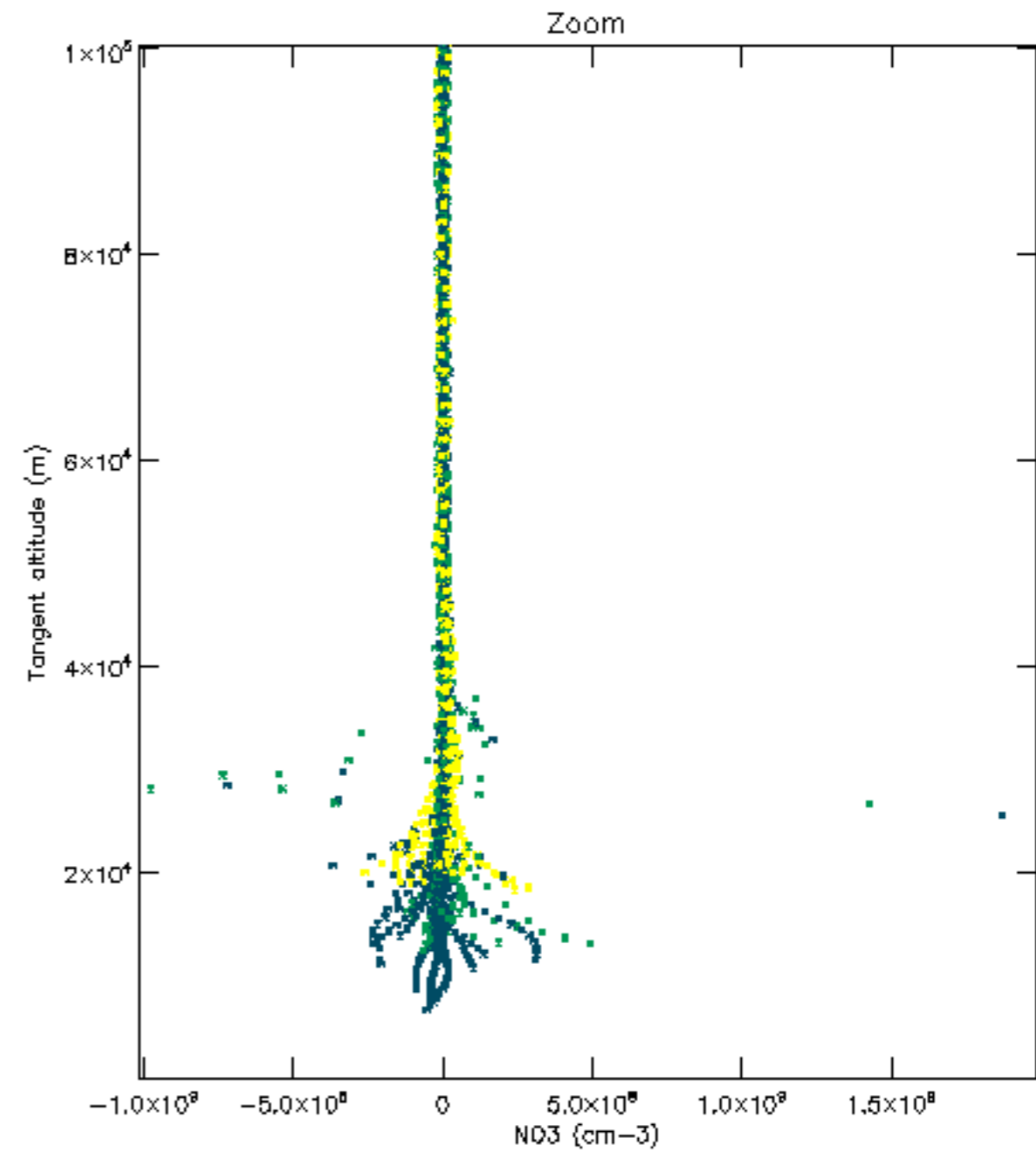
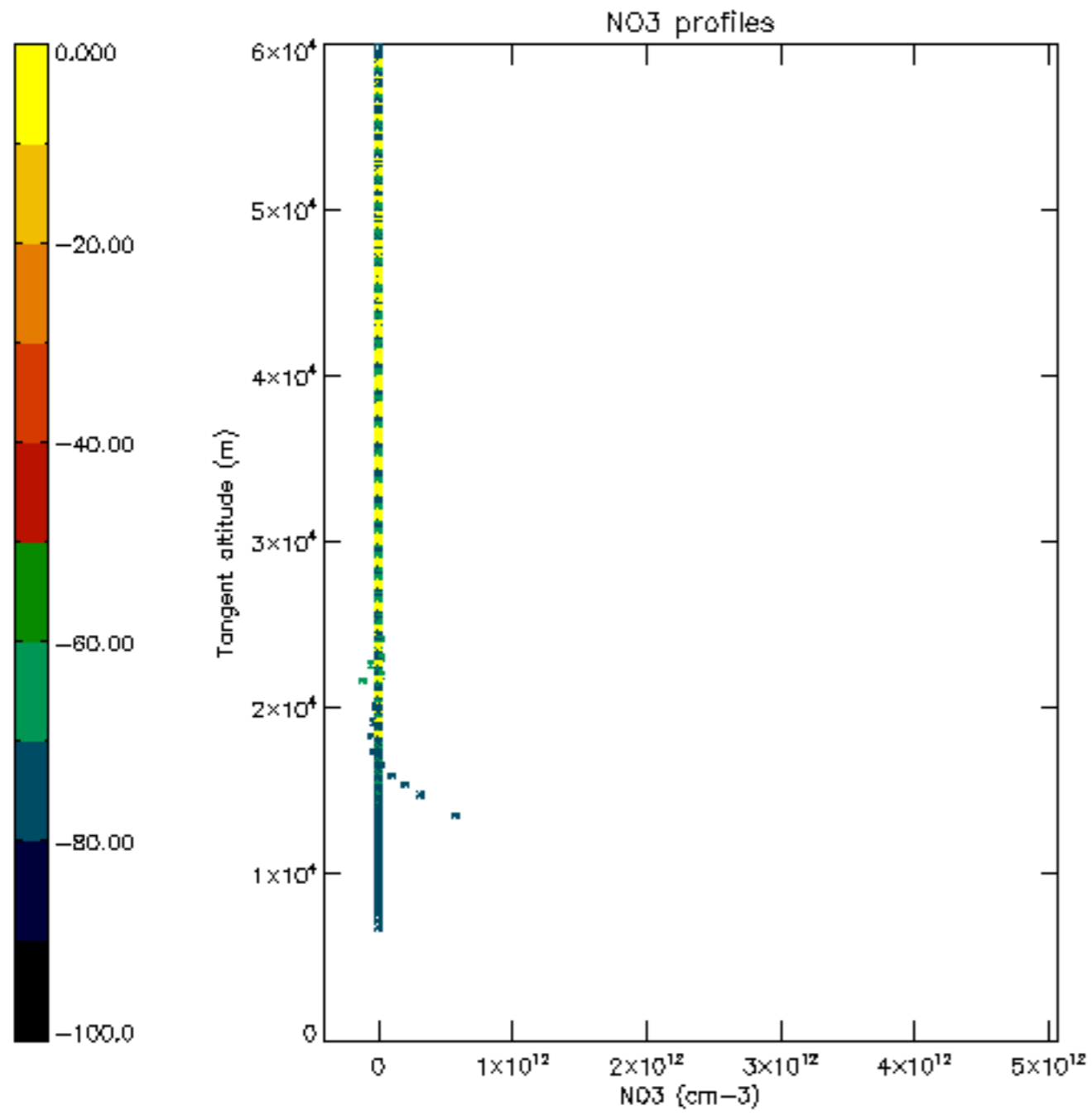


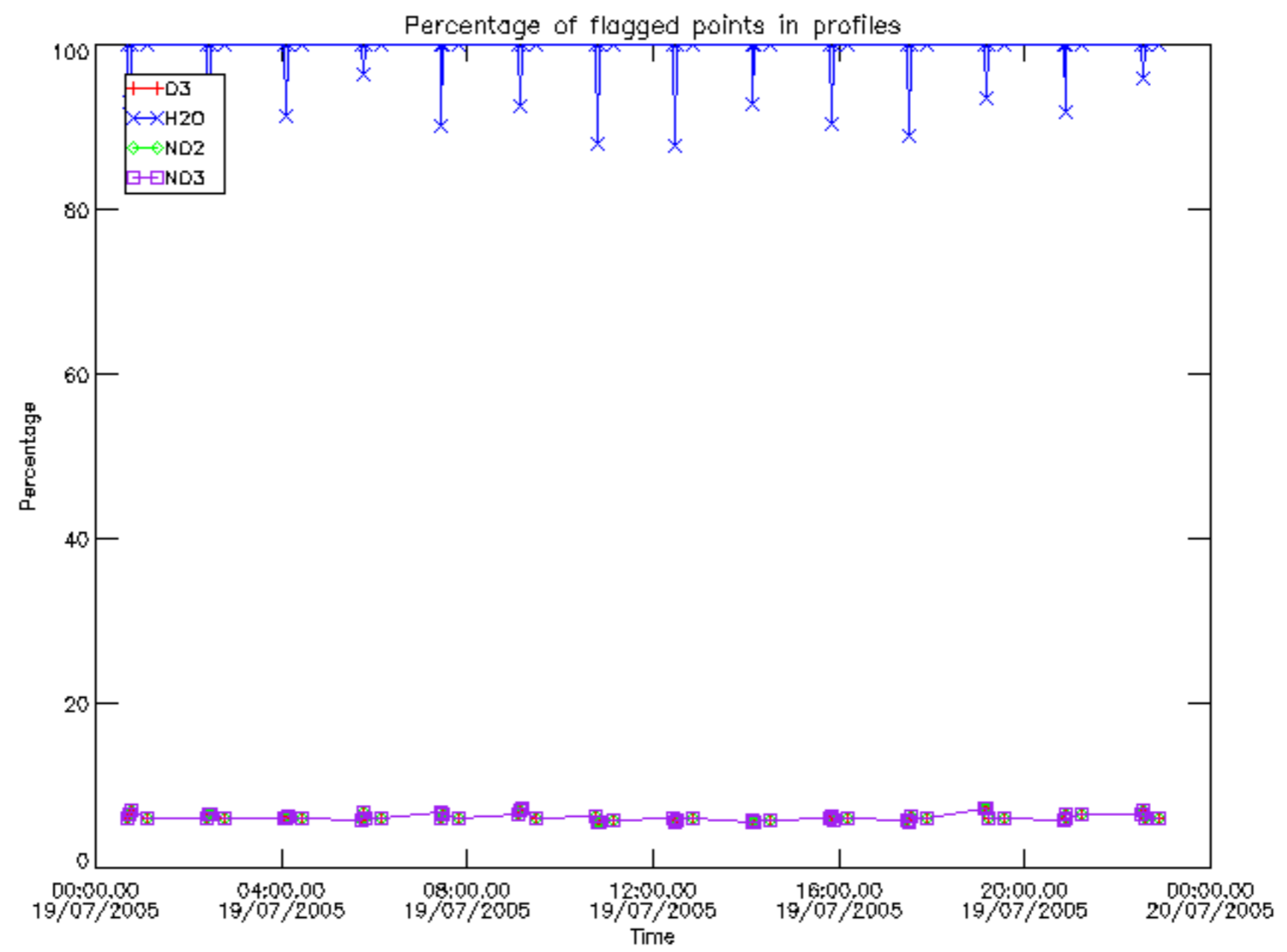




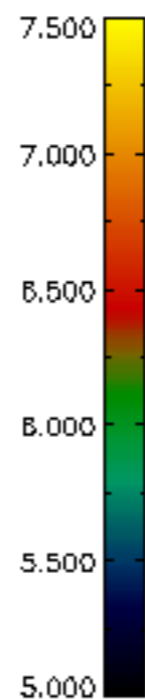
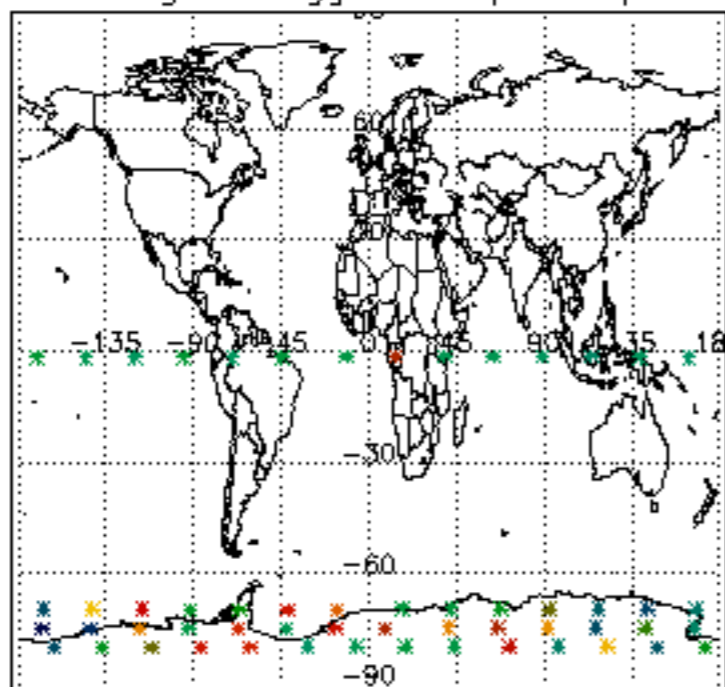




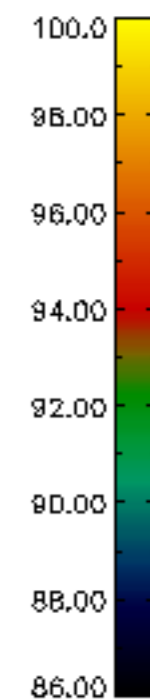
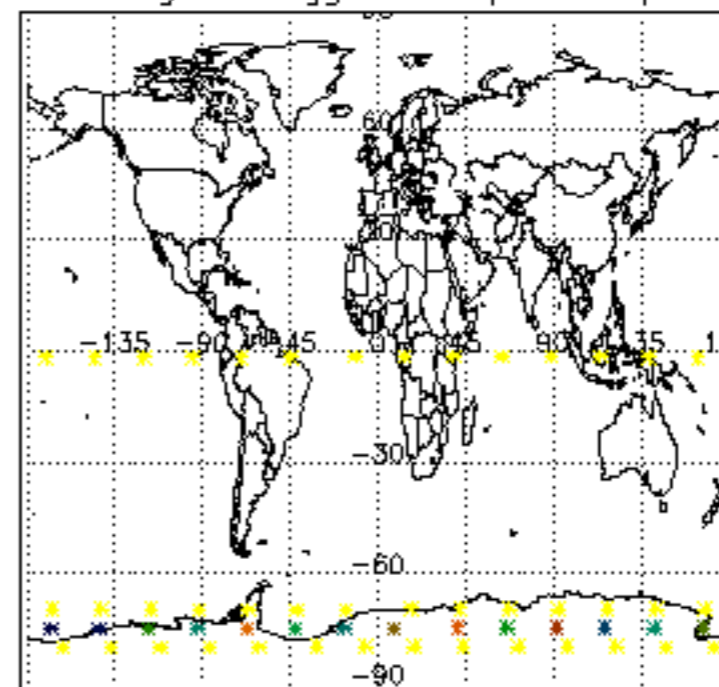




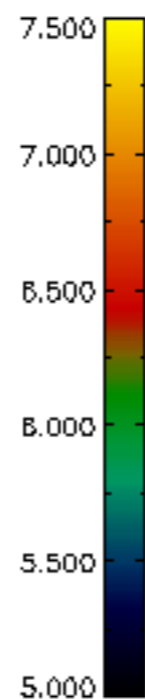
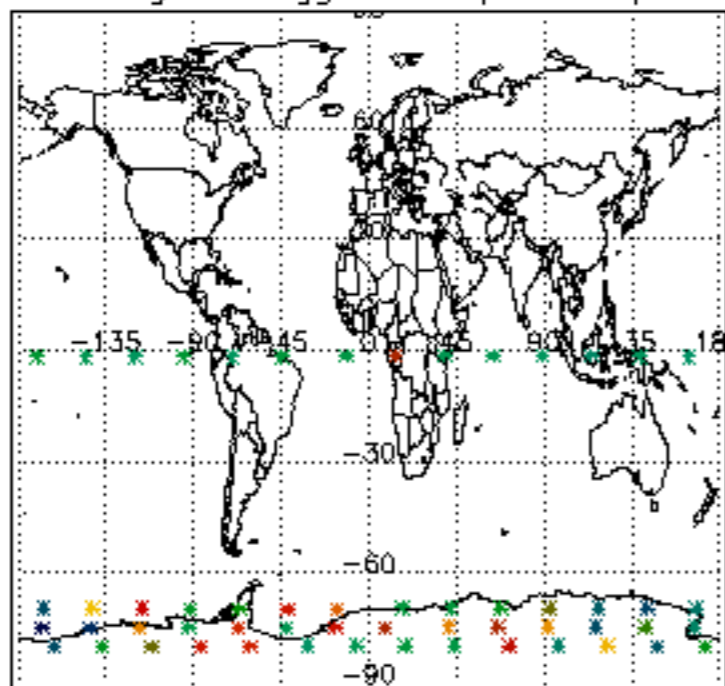
Percentage of flagged data per D3 profile



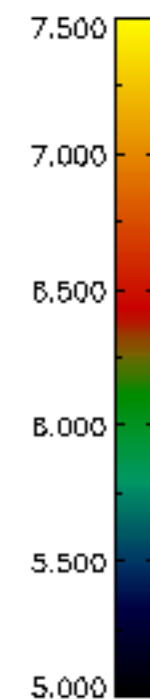
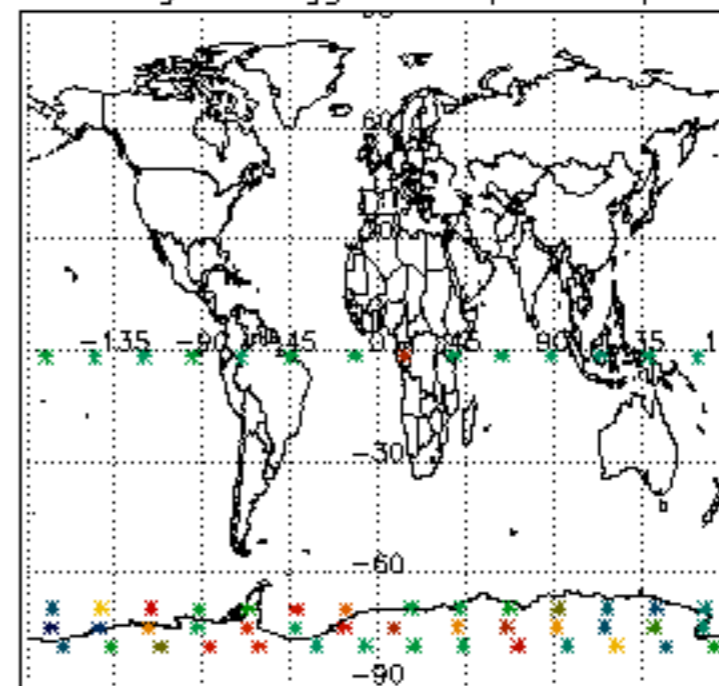
Percentage of flagged data per H2O profile

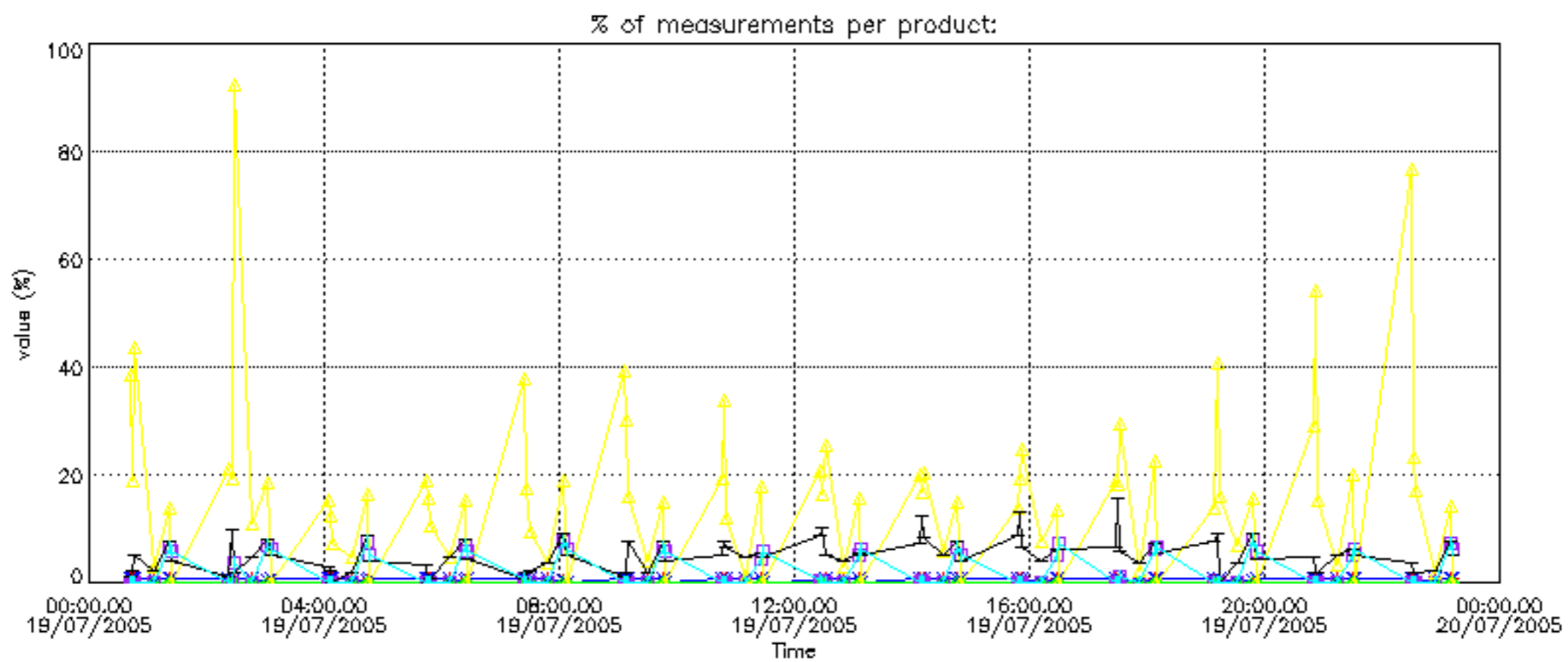


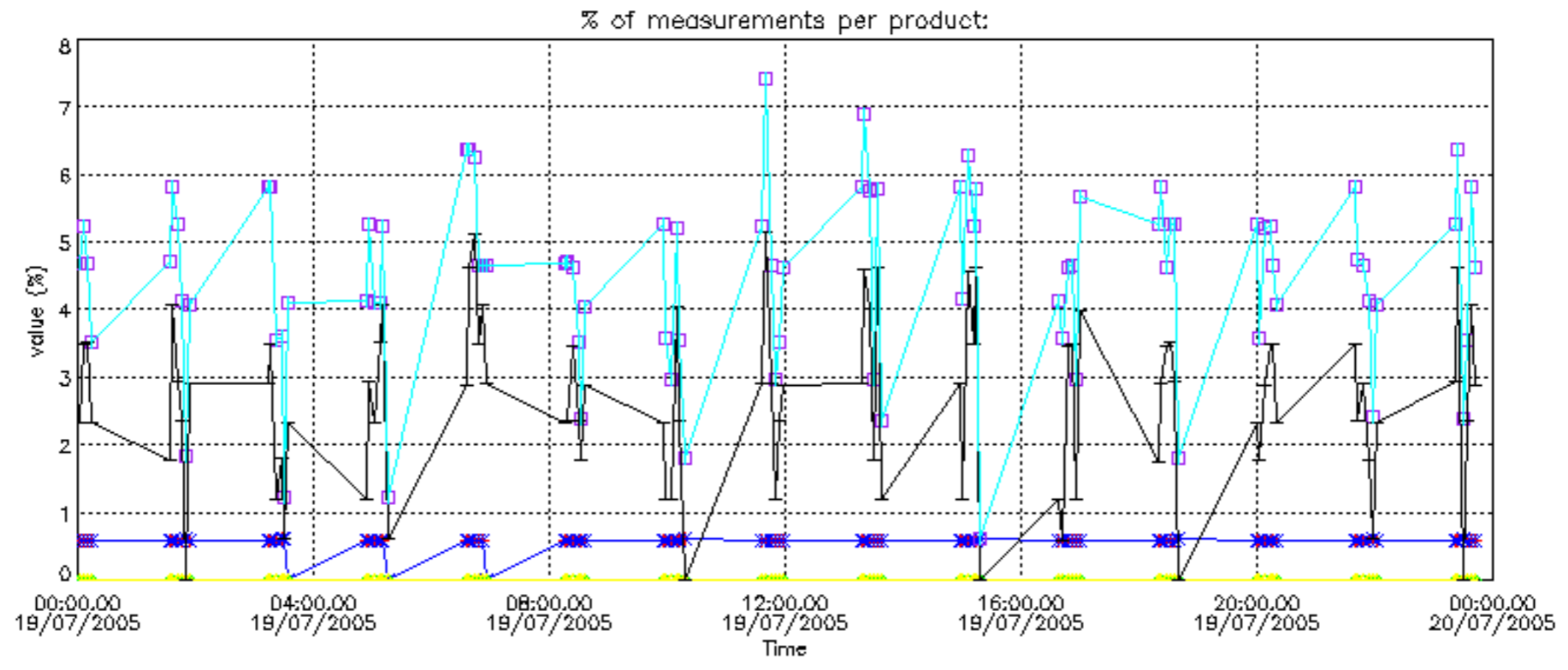
Percentage of flagged data per NO2 profile



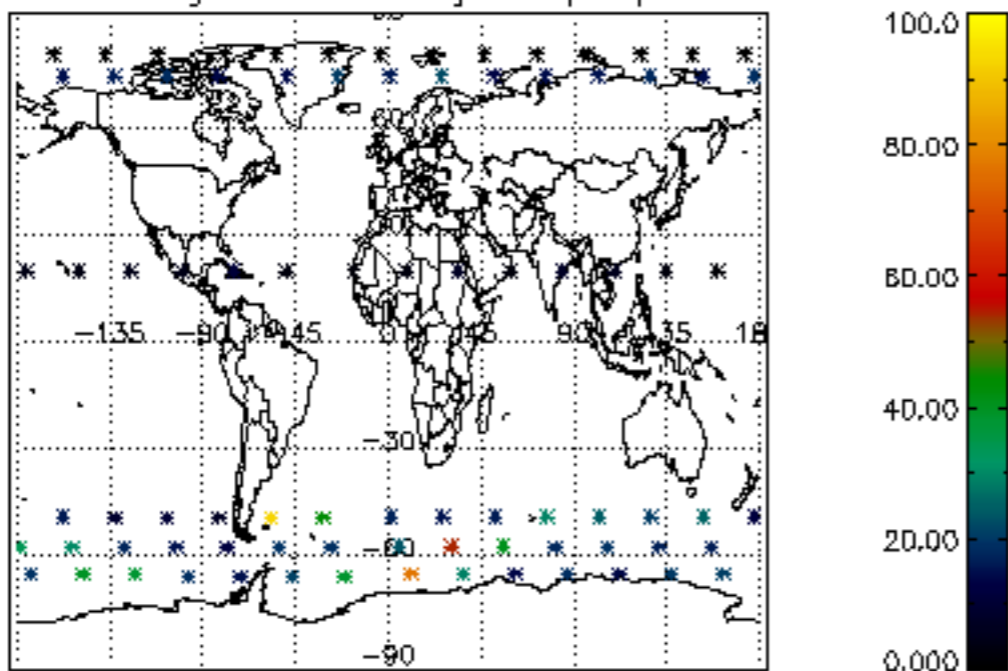
Percentage of flagged data per NO3 profile



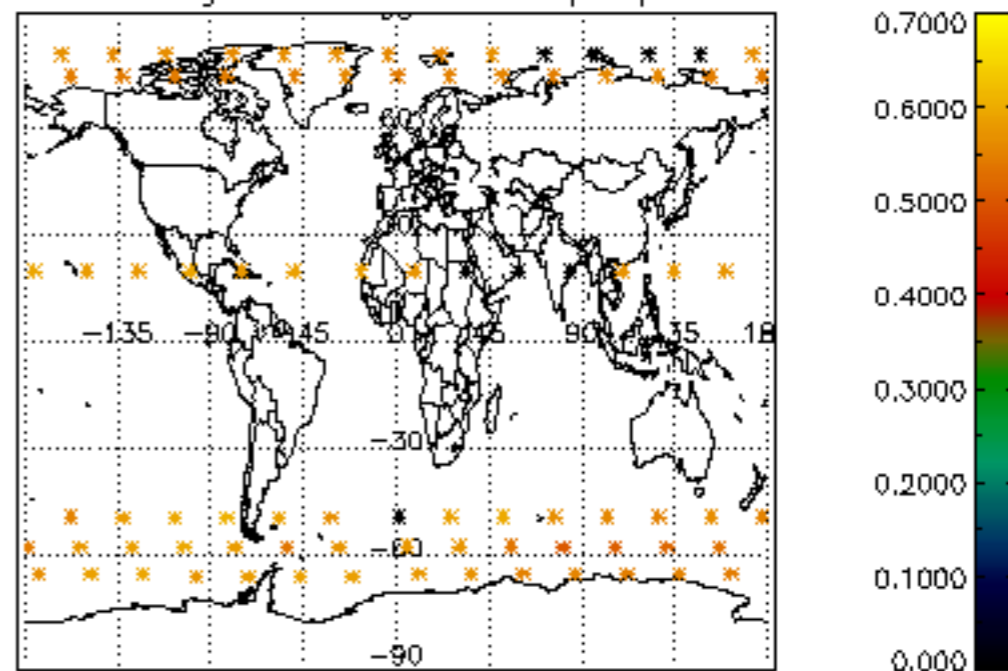




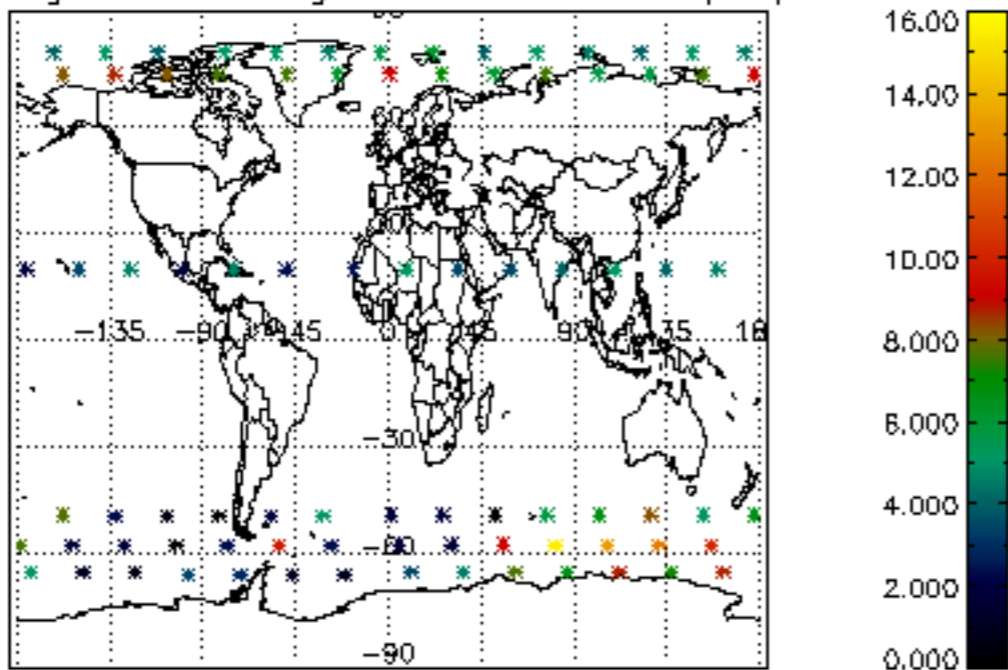
Percentage of cosmic ray hits per profile



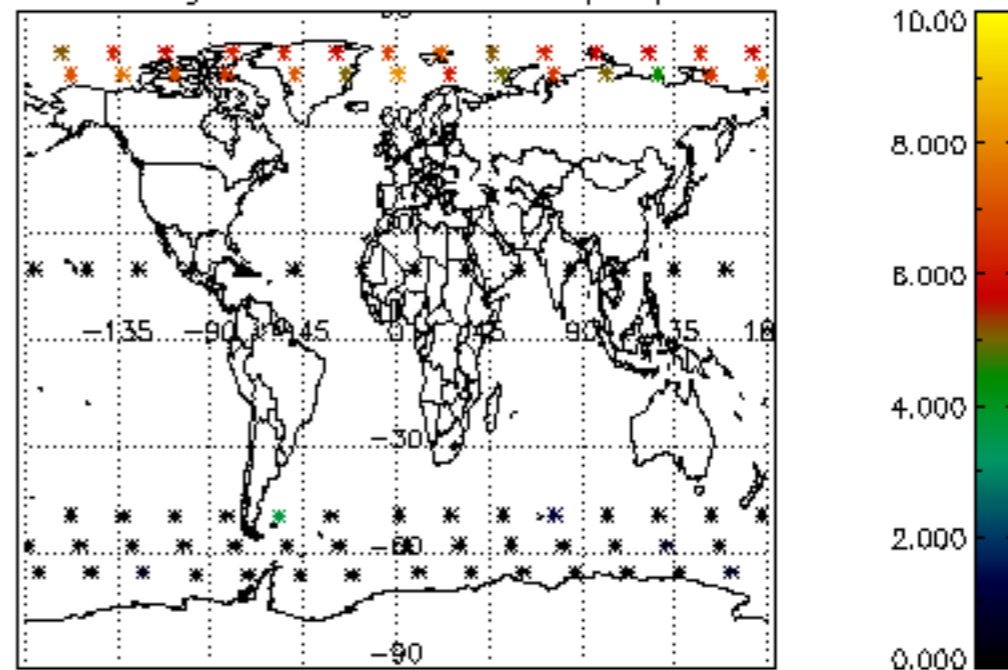
Percentage of datation errors per profile



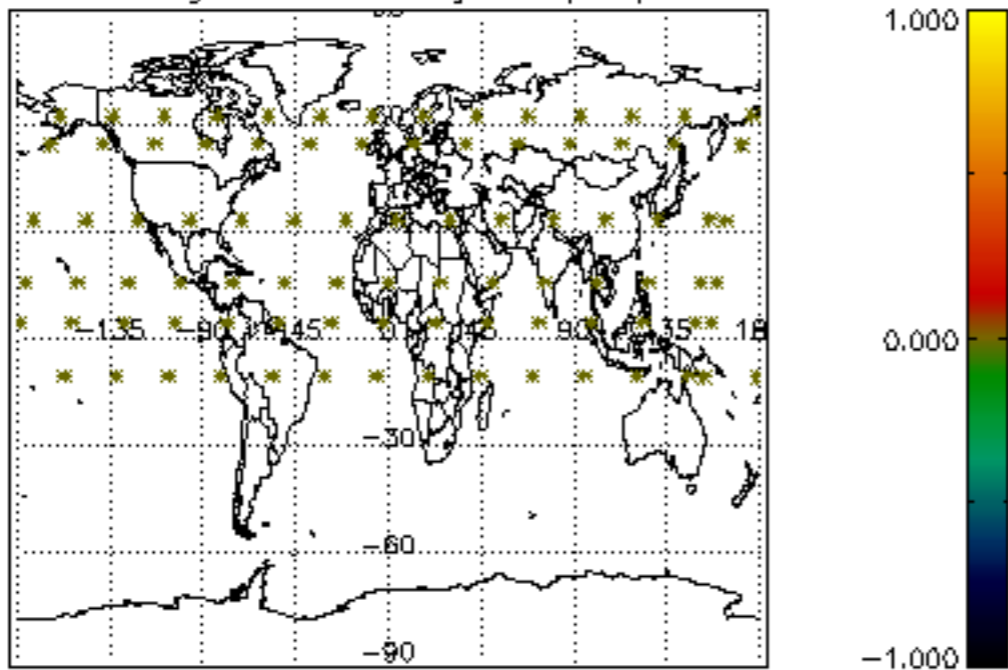
Percentage of star falling outside central band per profile



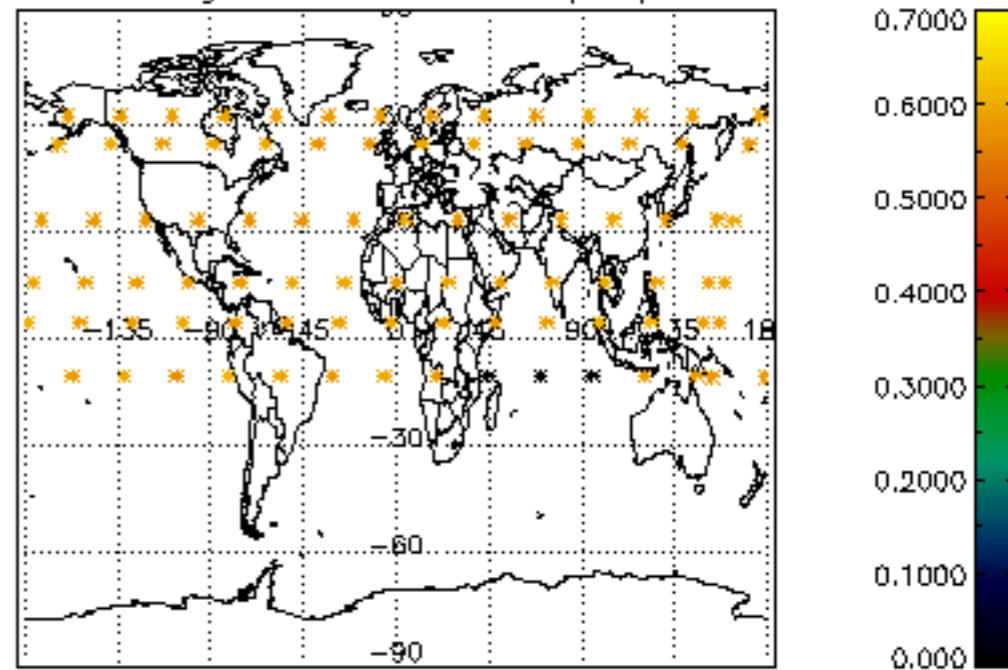
Percentage of saturation errors per profile



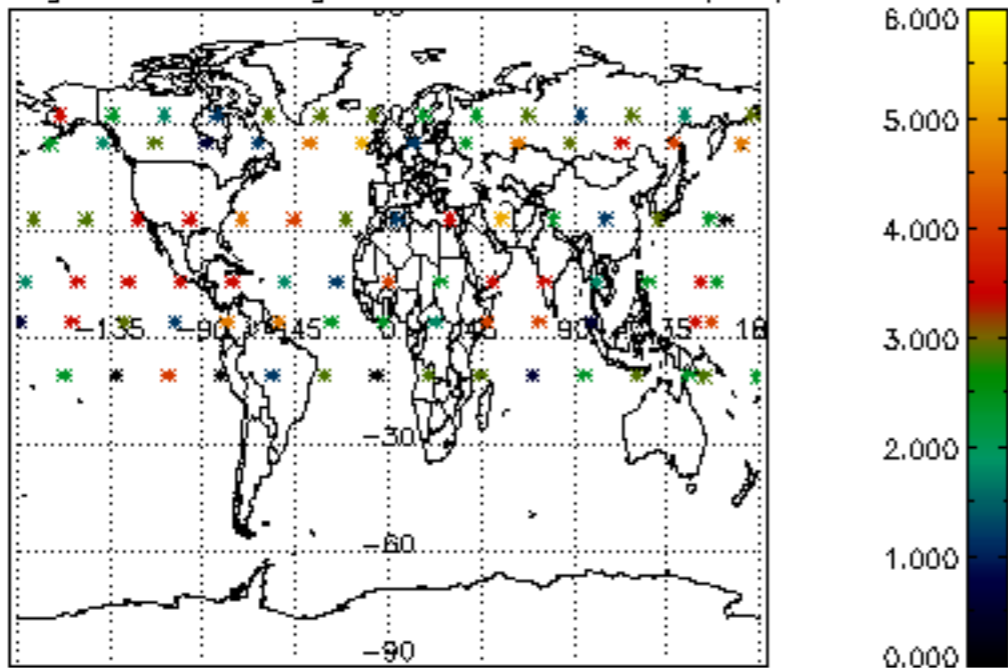
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

