

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	18APR2013 10:34:40
Data source version	GOMOS/6.01
Start time of products	24-08-2005 (24AUG2005 00:00:00)
Stop time of products	25-08-2005 (25AUG2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	125
Nb of prods with errors	20

2. Summary of processed GOM_NL__2P products.

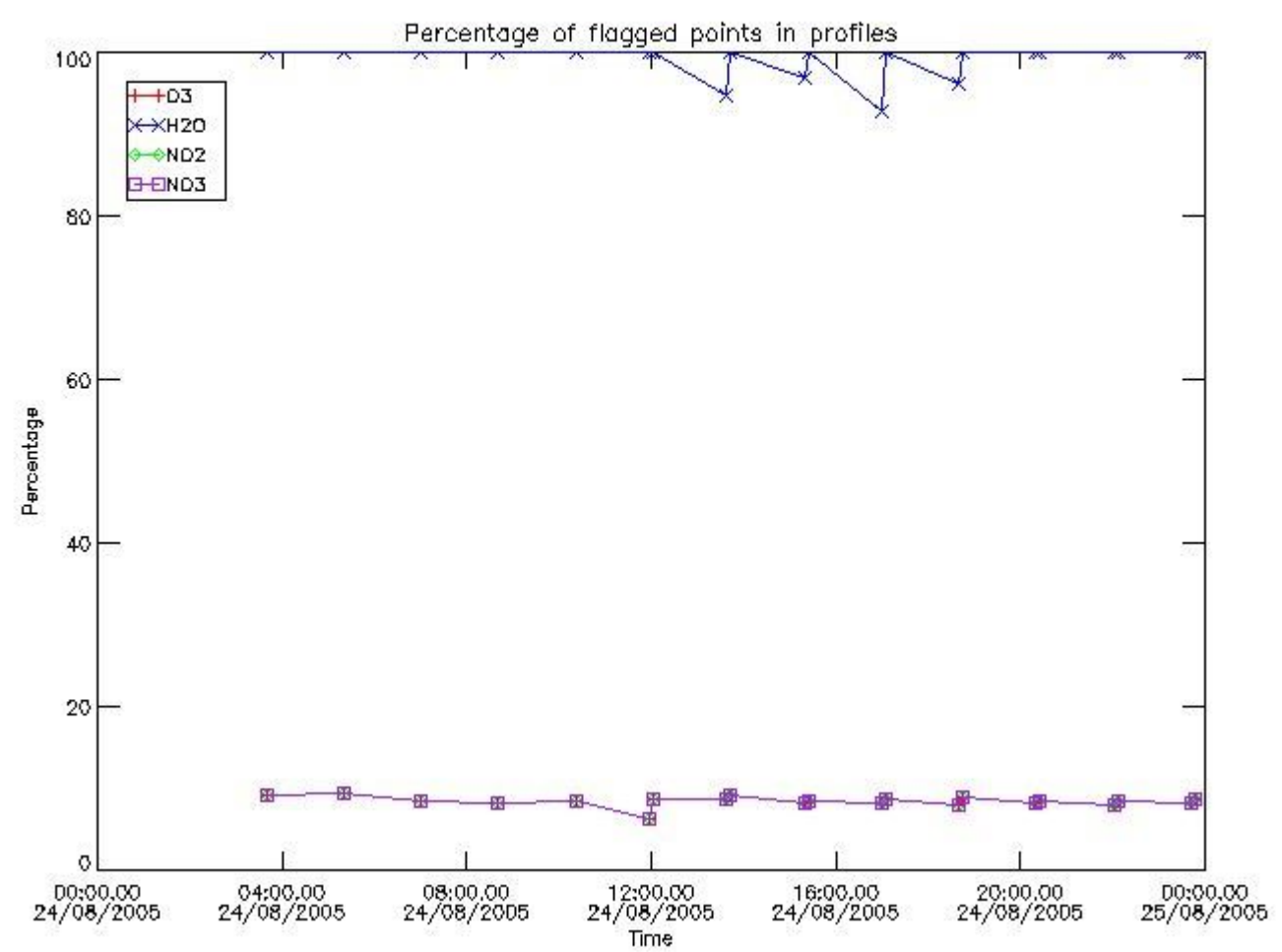
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20050824_024831_000000552040_00118_18208_6068.N1	24-AUG-2005 02:48:31	Bright	54.500	90	54Alp Peg	2.4870	11000.	109	18208	No
2	GOM_NL__2PRFIN20050824_030442_000000482040_00118_18208_6069.N1	24-AUG-2005 03:04:42	Bright	48.000	68	18Alp Cas	2.2250	4500.0	96	18208	No
3	GOM_NL__2PRFIN20050824_030658_000000472040_00118_18208_6070.N1	24-AUG-2005 03:06:58	Bright	46.500	110	37Del Cas	2.6780	8900.0	93	18208	No
4	GOM_NL__2PRFIN20050824_031303_000000552040_00118_18208_6071.N1	24-AUG-2005 03:13:03	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	18208	No
5	GOM_NL__2PRFIN20050824_031510_000000602040_00118_18208_6072.N1	24-AUG-2005 03:15:10	Bright	60.000	35	33Alp Per	1.7950	6250.0	120	18208	No
6	GOM_NL__2PRFIN20050824_032050_000000112040_00118_18208_6073.N1	24-AUG-2005 03:20:50	Straylight	11.000	149	45Eps Per	2.8880	30000.	22	18208	No
7	GOM_NL__2PRFIN20050824_032428_000000642040_00118_18208_6074.N1	24-AUG-2005 03:24:28	Twilight	64.000	114	3lot Aur	2.6930	4600.0	128	18208	No
8	GOM_NL__2PRFIN20050824_033504_000000282040_00118_18208_6075.N1	24-AUG-2005 03:35:04	Dark	27.500	27	24Gam Ori	1.6360	26000.	55	18208	Yes
9	GOM_NL__2PRFIN20050824_033927_000000562040_00118_18208_6076.N1	24-AUG-2005 03:39:27	Dark	56.000	128	67Bet Eri	2.7840	9700.0	112	18208	No
10	GOM_NL__2PRFIN20050824_042906_000000572040_00119_18209_6367.N1	24-AUG-2005 04:29:06	Bright	56.500	90	54Alp Peg	2.4870	11000.	113	18209	No
11	GOM_NL__2PRFIN20050824_043322_000000332040_00119_18209_6368.N1	24-AUG-2005 04:33:22	Dark	33.000	164	44Eta Peg	2.9480	5400.0	66	18209	Yes
12	GOM_NL__2PRFIN20050824_044517_000000482040_00119_18209_6369.N1	24-AUG-2005 04:45:17	Bright	48.000	68	18Alp Cas	2.2250	4500.0	96	18209	No
13	GOM_NL__2PRFIN20050824_044733_000000462040_00119_18209_6370.N1	24-AUG-2005 04:47:33	Bright	46.000	110	37Del Cas	2.6780	8900.0	92	18209	No
14	GOM_NL__2PRFIN20050824_045338_000000552040_00119_18209_6371.N1	24-AUG-2005 04:53:38	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	18209	No
15	GOM_NL__2PRFIN20050824_045546_000000592040_00119_18209_6372.N1	24-AUG-2005 04:55:46	Bright	59.000	35	33Alp Per	1.7950	6250.0	118	18209	No
16	GOM_NL__2PRFIN20050824_050126_000000112040_00119_18209_6373.N1	24-AUG-2005 05:01:26	Straylight	11.000	149	45Eps Per	2.8880	30000.	22	18209	No
17	GOM_NL__2PRFIN20050824_050504_000000692040_00119_18209_6374.N1	24-AUG-2005 05:05:04	Twilight	68.500	114	3lot Aur	2.6930	4600.0	137	18209	No
18	GOM_NL__2PRFIN20050824_051537_000000312040_00119_18209_6375.N1	24-AUG-2005 05:15:37	Dark	31.000	27	24Gam Ori	1.6360	26000.	62	18209	Yes
19	GOM_NL__2PRFIN20050824_052005_000000602040_00119_18209_6376.N1	24-AUG-2005 05:20:05	Dark	60.000	128	67Bet Eri	2.7840	9700.0	120	18209	No
20	GOM_NL__2PRFIN20050824_060941_000000552040_00120_18210_6368.N1	24-AUG-2005 06:09:41	Bright	55.000	90	54Alp Peg	2.4870	11000.	110	18210	No
21	GOM_NL__2PRFIN20050824_061401_000000322040_00120_18210_6369.N1	24-AUG-2005 06:14:01	Dark	31.500	164	44Eta Peg	2.9480	5400.0	63	18210	Yes
22	GOM_NL__2PRFIN20050824_062552_000000502040_00120_18210_6370.N1	24-AUG-2005 06:25:52	Bright	49.500	68	18Alp Cas	2.2250	4500.0	99	18210	No
23	GOM_NL__2PRFIN20050824_062808_000000462040_00120_18210_6371.N1	24-AUG-2005 06:28:08	Bright	46.000	110	37Del Cas	2.6780	8900.0	92	18210	No
24	GOM_NL__2PRFIN20050824_063413_000000562040_00120_18210_6372.N1	24-AUG-2005 06:34:13	Bright	55.500	160	23Gam Per	2.9300	4700.0	111	18210	No
25	GOM_NL__2PRFIN20050824_063621_000000622040_00120_18210_6373.N1	24-AUG-2005 06:36:21	Bright	62.000	35	33Alp Per	1.7950	6250.0	124	18210	No
26	GOM_NL__2PRFIN20050824_064202_00000052040_00120_18210_6374.N1	24-AUG-2005 06:42:02	Straylight	5.0000	149	45Eps Per	2.8880	30000.	10	18210	No
27	GOM_NL__2PRFIN20050824_064540_000000642040_00120_18210_6375.N1	24-AUG-2005 06:45:40	Twilight	63.500	114	3lot Aur	2.6930	4600.0	127	18210	No
28	GOM_NL__2PRFIN20050824_064753_000000132040_00120_18210_6376.N1	24-AUG-2005 06:47:53	Dark	12.500	28	12Bet Tau	1.6500	15200.	25	18210	Yes
29	GOM_NL__2PRFIN20050824_065609_000000382040_00120_18210_6377.N1	24-AUG-2005 06:56:09	Dark	38.000	27	24Gam Ori	1.6360	26000.	76	18210	Yes
30	GOM_NL__2PRFIN20050824_070041_000000602040_00120_18210_6378.N1	24-AUG-2005 07:00:41	Dark	60.000	128	67Bet Eri	2.7840	9700.0	120	18210	No
31	GOM_NL__2PRFIN20050824_075016_000000562040_00121_18211_6092.N1	24-AUG-2005 07:50:16	Bright	56.000	90	54Alp Peg	2.4870	11000.	112	18211	No
32	GOM_NL__2PRFIN20050824_075439_000000292040_00121_18211_6093.N1	24-AUG-2005 07:54:39	Dark	29.000	164	44Eta Peg	2.9480	5400.0	58	18211	Yes
33	GOM_NL__2PRFIN20050824_080627_000000472040_00121_18211_6094.N1	24-AUG-2005 08:06:27	Bright	46.500	68	18Alp Cas	2.2250	4500.0	93	18211	No
34	GOM_NL__2PRFIN20050824_080844_000000472040_00121_18211_6095.N1	24-AUG-2005 08:08:44	Bright	47.000	110	37Del Cas	2.6780	8900.0	94	18211	No
35	GOM_NL__2PRFIN20050824_081449_000000562040_00121_18211_6096.N1	24-AUG-2005 08:14:49	Bright	55.500	160	23Gam Per	2.9300	4700.0	111	18211	No
36	GOM_NL__2PRFIN20050824_081656_000000612040_00121_18211_6097.N1	24-AUG-2005 08:16:56	Bright	60.500	35	33Alp Per	1.7950	6250.0	121	18211	No
37	GOM_NL__2PRFIN20050824_082237_00000052040_00121_18211_6098.N1	24-AUG-2005 08:22:37	Straylight	5.0000	149	45Eps Per	2.8880	30000.	10	18211	No
38	GOM_NL__2PRFIN20050824_082616_000000602040_00121_18211_6099.N1	24-AUG-2005 08:26:16	Twilight	59.500	114	3lot Aur	2.6930	4600.0	119	18211	No
39	GOM_NL__2PRFIN20050824_082825_000000162040_00121_18211_6100.N1	24-AUG-2005 08:28:25	Dark	15.500	28	12Bet Tau	1.6500	15200.	31	18211	Yes
40	GOM_NL__2PRFIN20050824_083641_000000392040_00121_18211_6101.N1	24-AUG-2005 08:36:41	Dark	39.000	27	24Gam Ori	1.6360	26000.	78	18211	Yes
41	GOM_NL__2PRFIN20050824_084119_000000622040_00121_18211_6102.N1	24-AUG-2005 08:41:19	Dark	61.500	128	67Bet Eri	2.7840	9700.0	123	18211	No
42	GOM_NL__2PRFIN20050824_093051_000000572040_00122_18212_6093.N1	24-AUG-2005 09:30:51	Bright	56.500	90	54Alp Peg	2.4870	11000.	113	18212	No

102	GOM_NL__2PRFIN20050824_195250_000000482040_00128_18218_6100.N1	24-AUG-2005 19:52:50	Bright	48.000	110	37Del Cas	2.6780	8900.0	96	18218	No
103	GOM_NL__2PRFIN20050824_195855_000000562040_00128_18218_6101.N1	24-AUG-2005 19:58:55	Bright	56.000	160	23Gam Per	2.9300	4700.0	112	18218	No
104	GOM_NL__2PRFIN20050824_200103_000000622040_00128_18218_6102.N1	24-AUG-2005 20:01:03	Bright	62.000	35	33Alp Per	1.7950	6250.0	124	18218	No
105	GOM_NL__2PRFIN20050824_201208_000000542040_00128_18218_6103.N1	24-AUG-2005 20:12:08	Tw_i_and_stray	54.000	28	12Bet Tau	1.6500	15200.	108	18218	No
106	GOM_NL__2PRFIN20050824_202041_000000622040_00128_18218_6104.N1	24-AUG-2005 20:20:41	Dark	61.500	27	24Gam Ori	1.6360	26000.	123	18218	No
107	GOM_NL__2PRFIN20050824_202539_000000612040_00128_18218_6105.N1	24-AUG-2005 20:25:39	Dark	60.500	128	67Bet Eri	2.7840	9700.0	121	18218	No
108	GOM_NL__2PRFIN20050824_211457_000000542040_00129_18219_6097.N1	24-AUG-2005 21:14:57	Bright	54.000	90	54Alp Peg	2.4870	11000.	108	18219	No
109	GOM_NL__2PRFIN20050824_211922_000000562040_00129_18219_6098.N1	24-AUG-2005 21:19:22	Bright	56.000	93	53Bet Peg	2.5200	3100.0	112	18219	No
110	GOM_NL__2PRFIN20050824_213107_000000492040_00129_18219_6099.N1	24-AUG-2005 21:31:07	Bright	49.000	68	18Alp Cas	2.2250	4500.0	98	18219	No
111	GOM_NL__2PRFIN20050824_213325_000000452040_00129_18219_6100.N1	24-AUG-2005 21:33:25	Bright	45.000	110	37Del Cas	2.6780	8900.0	90	18219	No
112	GOM_NL__2PRFIN20050824_213930_000000552040_00129_18219_6101.N1	24-AUG-2005 21:39:30	Bright	54.500	160	23Gam Per	2.9300	4700.0	109	18219	No
113	GOM_NL__2PRFIN20050824_214138_000000612040_00129_18219_6102.N1	24-AUG-2005 21:41:38	Bright	61.000	35	33Alp Per	1.7950	6250.0	122	18219	No
114	GOM_NL__2PRFIN20050824_215240_000000562040_00129_18219_6103.N1	24-AUG-2005 21:52:40	Tw_i_and_stray	55.500	28	12Bet Tau	1.6500	15200.	111	18219	No
115	GOM_NL__2PRFIN20050824_220117_000000642040_00129_18219_6104.N1	24-AUG-2005 22:01:17	Dark	63.500	27	24Gam Ori	1.6360	26000.	127	18219	No
116	GOM_NL__2PRFIN20050824_220616_000000612040_00129_18219_6105.N1	24-AUG-2005 22:06:16	Dark	60.500	128	67Bet Eri	2.7840	9700.0	121	18219	No
117	GOM_NL__2PRFIN20050824_225532_000000552040_00130_18220_6389.N1	24-AUG-2005 22:55:32	Bright	55.000	90	54Alp Peg	2.4870	11000.	110	18220	No
118	GOM_NL__2PRFIN20050824_225956_000000562040_00130_18220_6390.N1	24-AUG-2005 22:59:56	Bright	56.000	93	53Bet Peg	2.5200	3100.0	112	18220	No
119	GOM_NL__2PRFIN20050824_231142_000000492040_00130_18220_6391.N1	24-AUG-2005 23:11:42	Bright	49.000	68	18Alp Cas	2.2250	4500.0	98	18220	No
120	GOM_NL__2PRFIN20050824_231400_000000472040_00130_18220_6392.N1	24-AUG-2005 23:14:00	Bright	47.000	110	37Del Cas	2.6780	8900.0	94	18220	No
121	GOM_NL__2PRFIN20050824_232005_000000542040_00130_18220_6393.N1	24-AUG-2005 23:20:05	Bright	54.000	160	23Gam Per	2.9300	4700.0	108	18220	No
122	GOM_NL__2PRFIN20050824_232213_000000622040_00130_18220_6394.N1	24-AUG-2005 23:22:13	Bright	61.500	35	33Alp Per	1.7950	6250.0	123	18220	No
123	GOM_NL__2PRFIN20050824_233316_000000602040_00130_18220_6395.N1	24-AUG-2005 23:33:16	Tw_i_and_stray	59.500	28	12Bet Tau	1.6500	15200.	119	18220	No
124	GOM_NL__2PRFIN20050824_234154_000000632040_00130_18220_6396.N1	24-AUG-2005 23:41:54	Dark	63.000	27	24Gam Ori	1.6360	26000.	126	18220	No
125	GOM_NL__2PRFIN20050824_234653_000000582040_00130_18220_6397.N1	24-AUG-2005 23:46:53	Dark	58.000	128	67Bet Eri	2.7840	9700.0	116	18220	No

3. Quality information per product

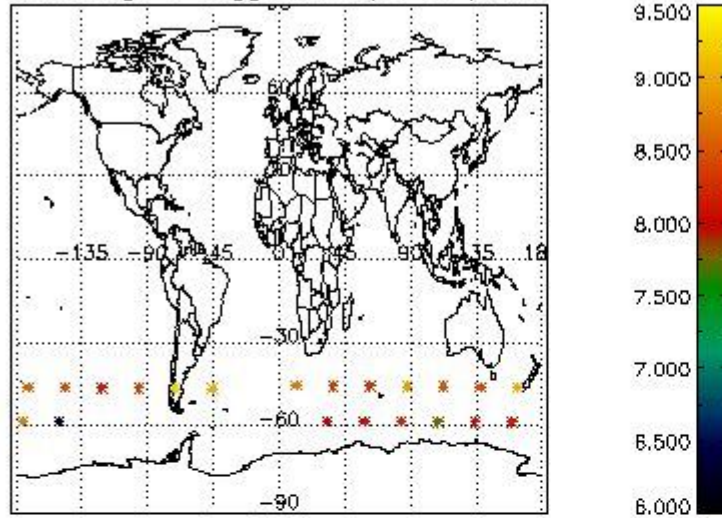
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

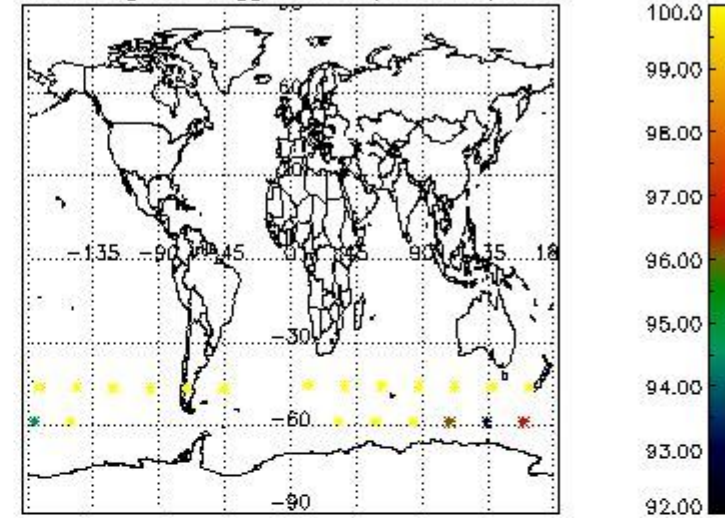


3.2 Plot quality information per product (world map)

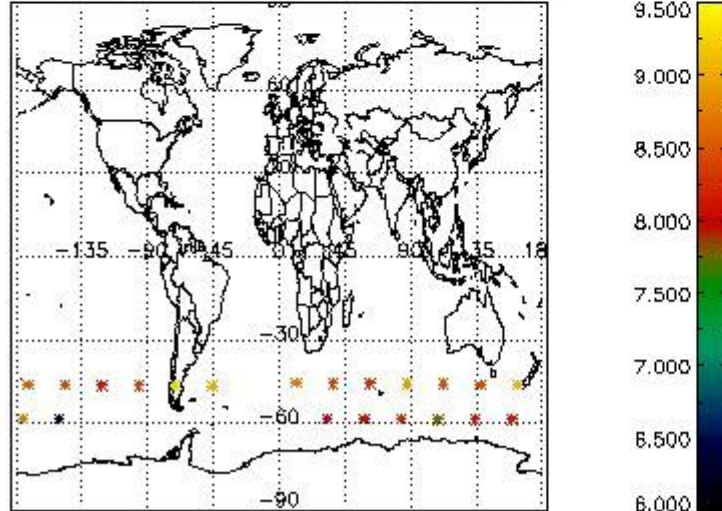
Percentage of flagged data per O3 profile



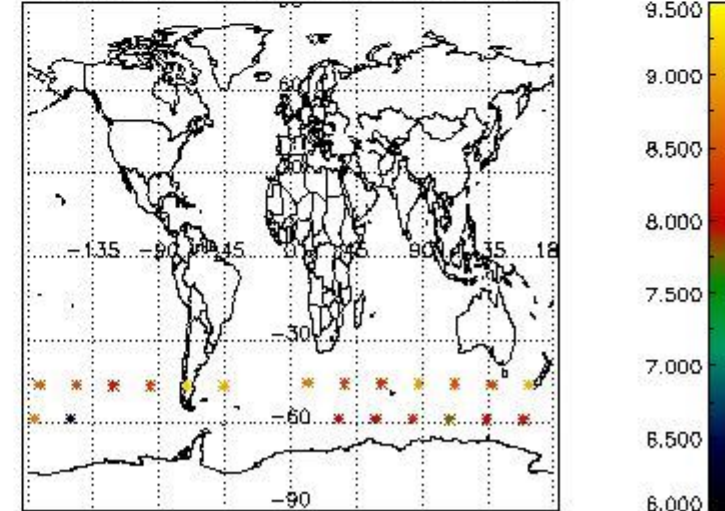
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

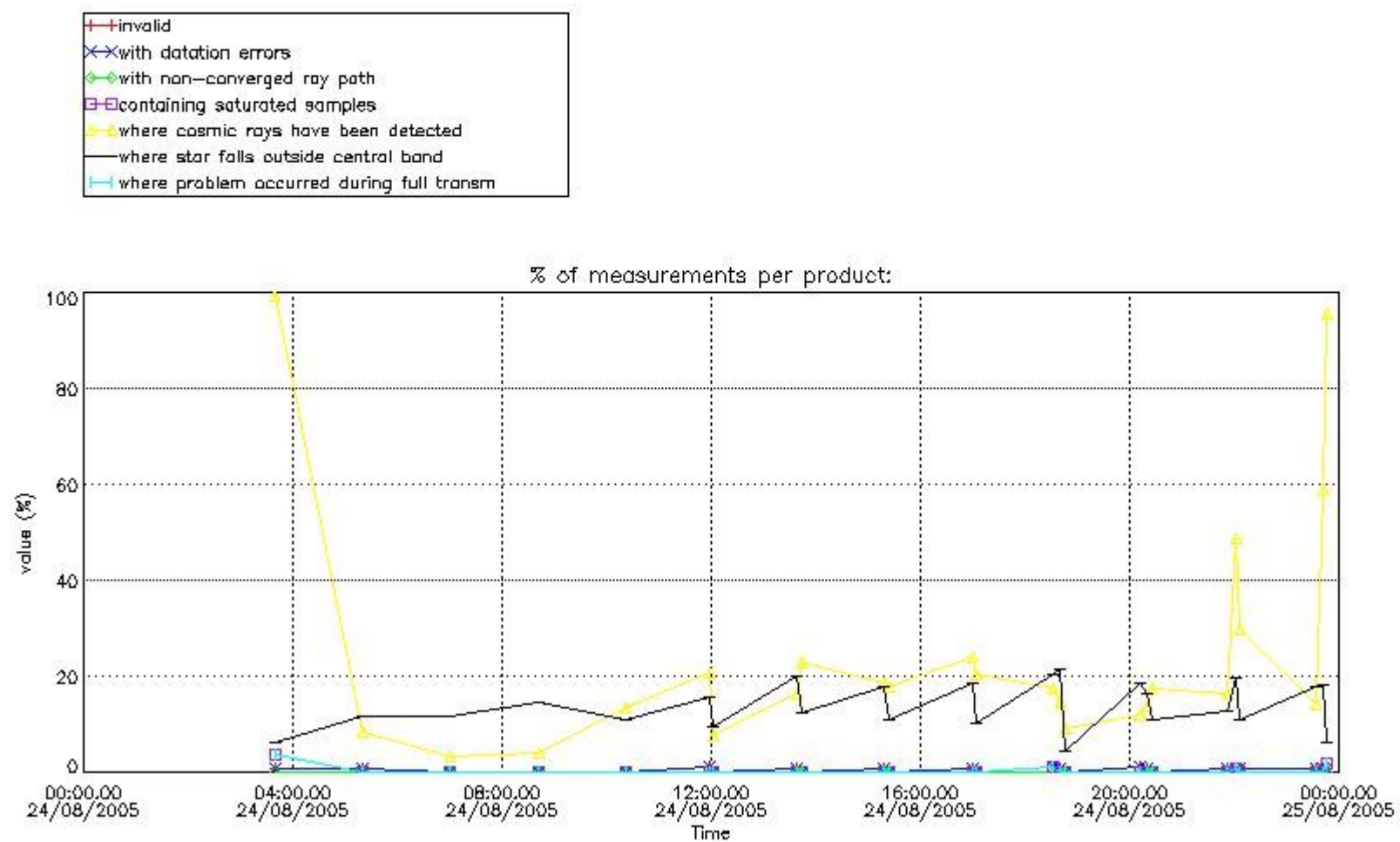


4. Level 1 quality information per product

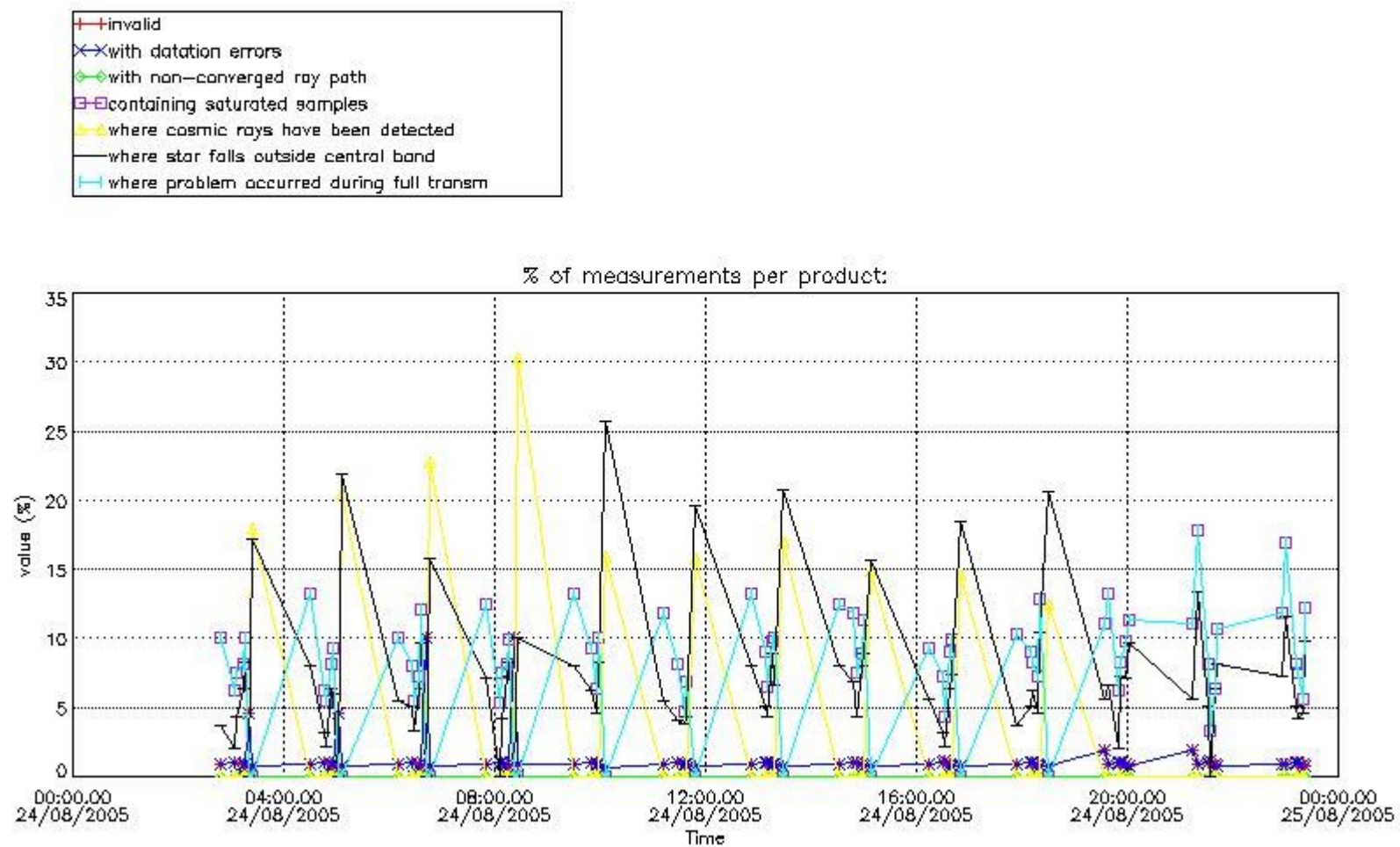
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



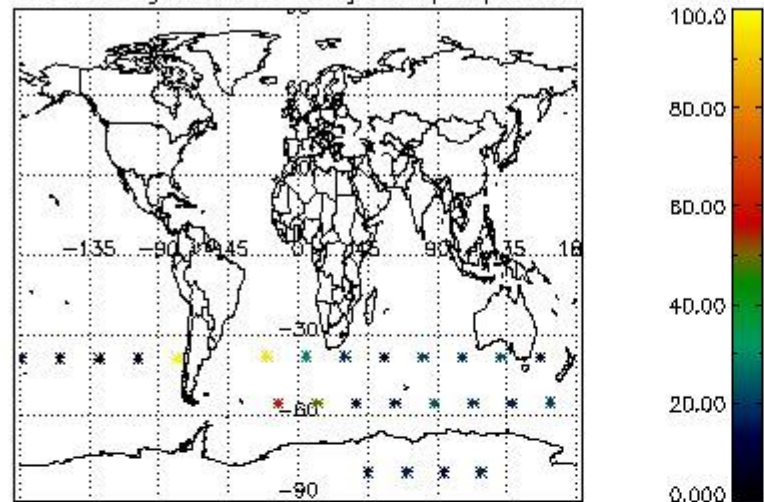
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



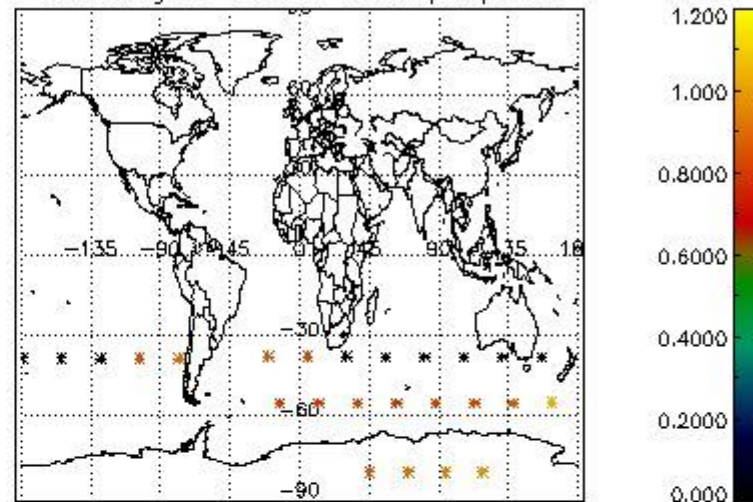
4.2 Plot quality information per product coming from level 1b processing (world map)

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

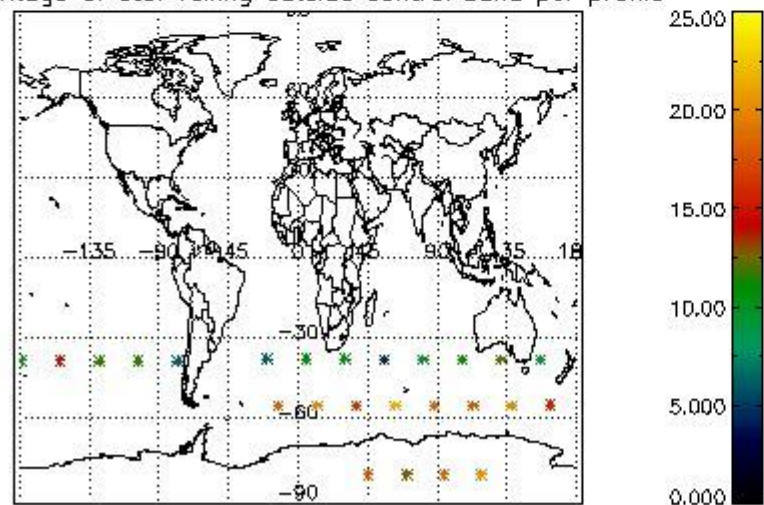
Percentage of cosmic ray hits per profile



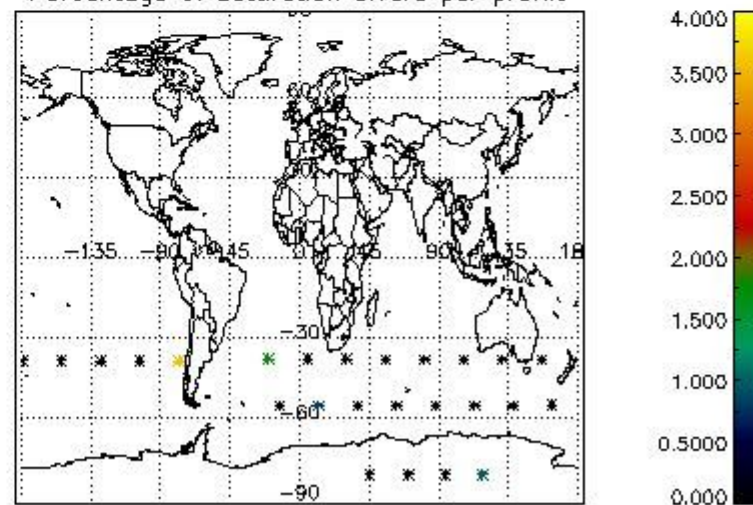
Percentage of datation errors per profile



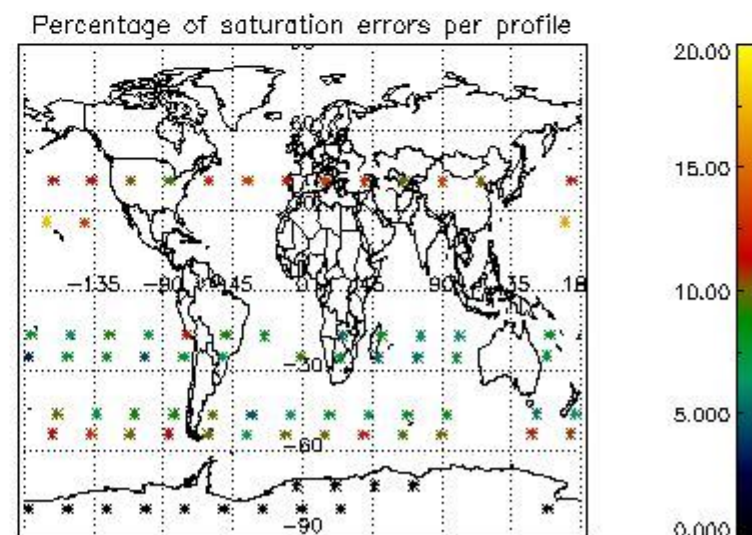
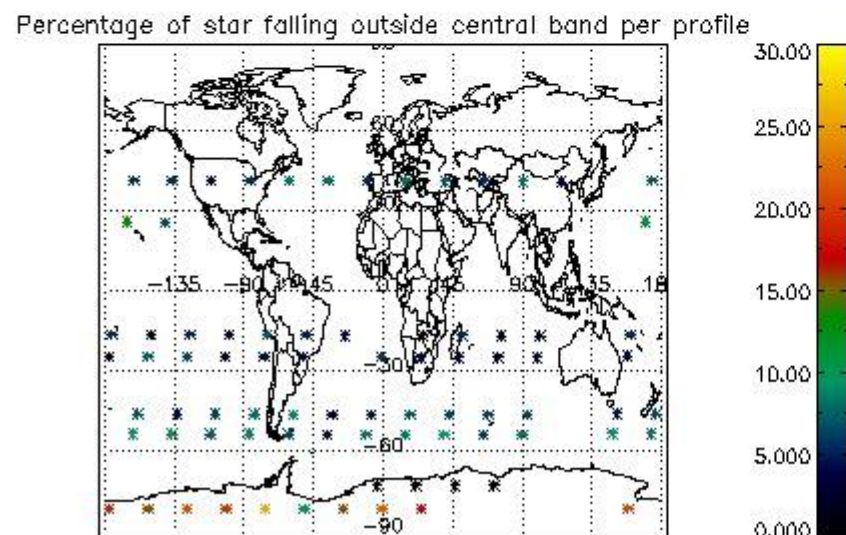
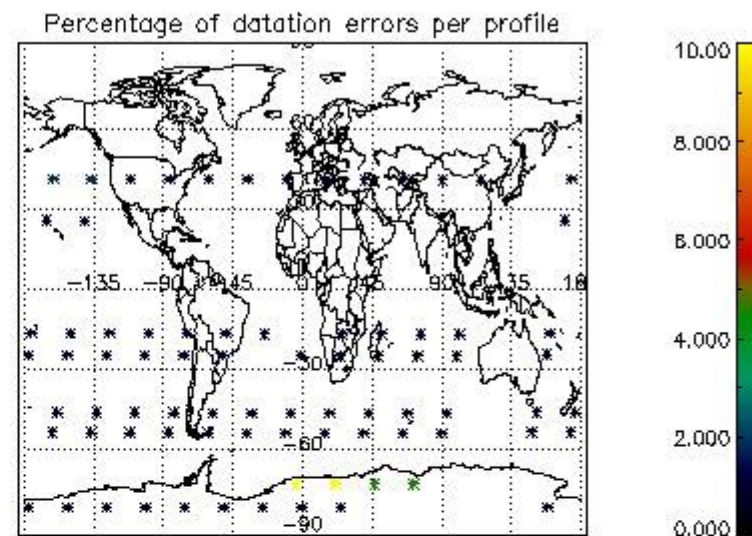
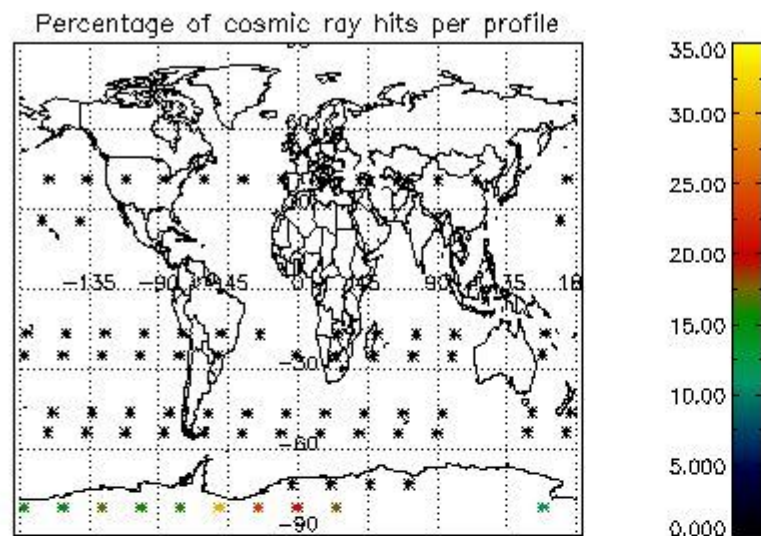
Percentage of star falling outside central band per profile



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

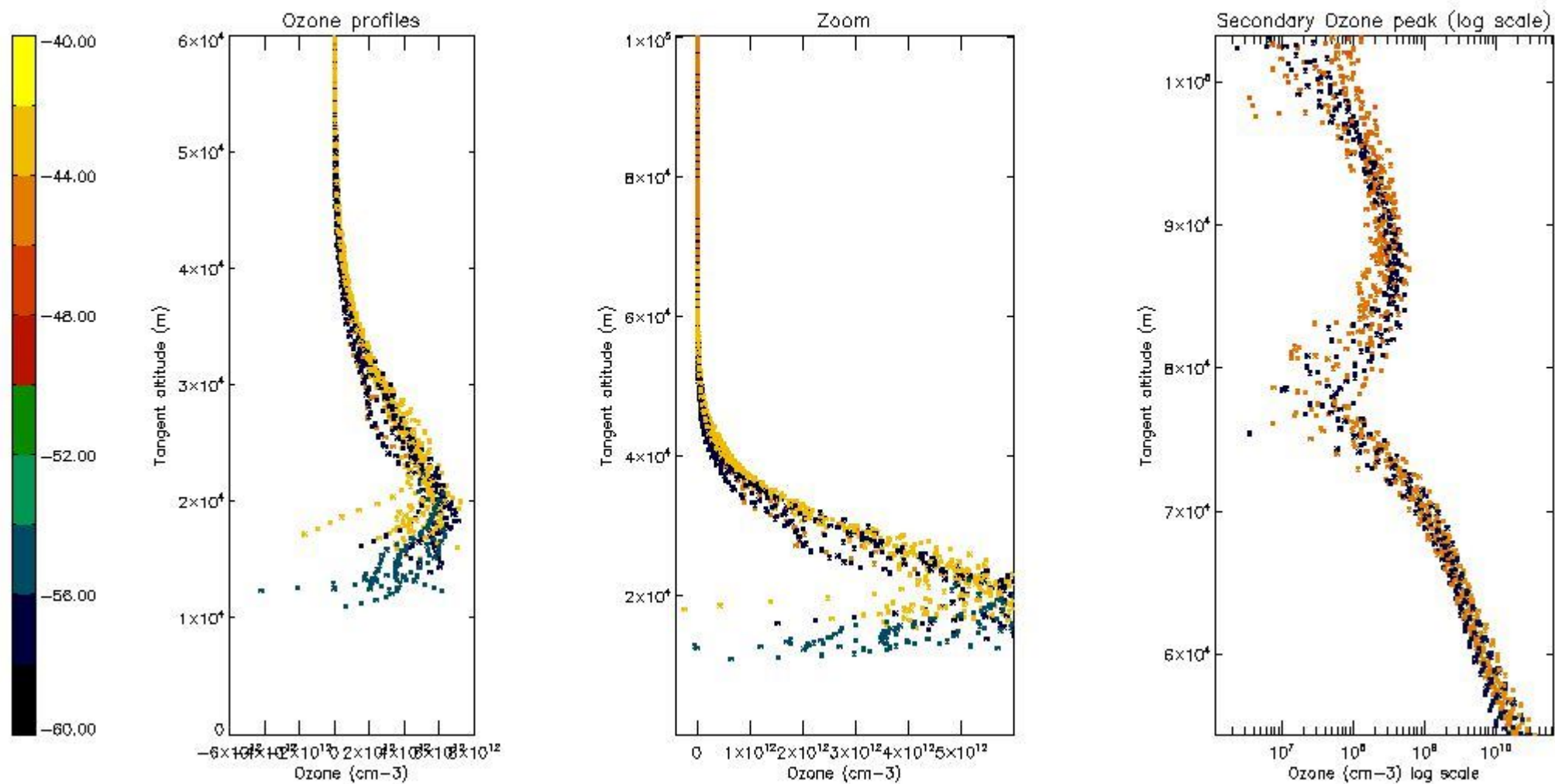
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	23
STD < 20	14

STD < 10	13
STD < 5	8

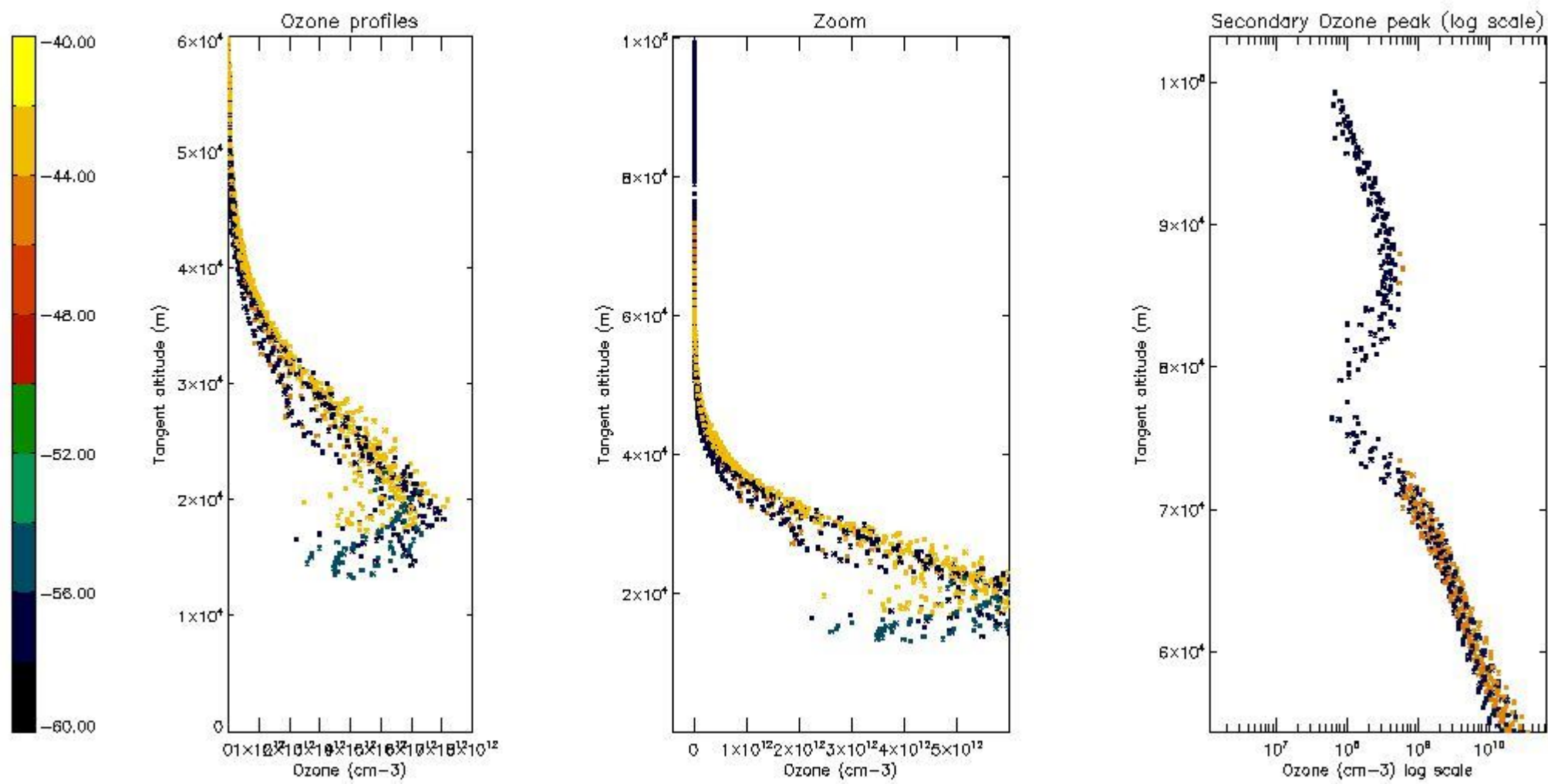
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



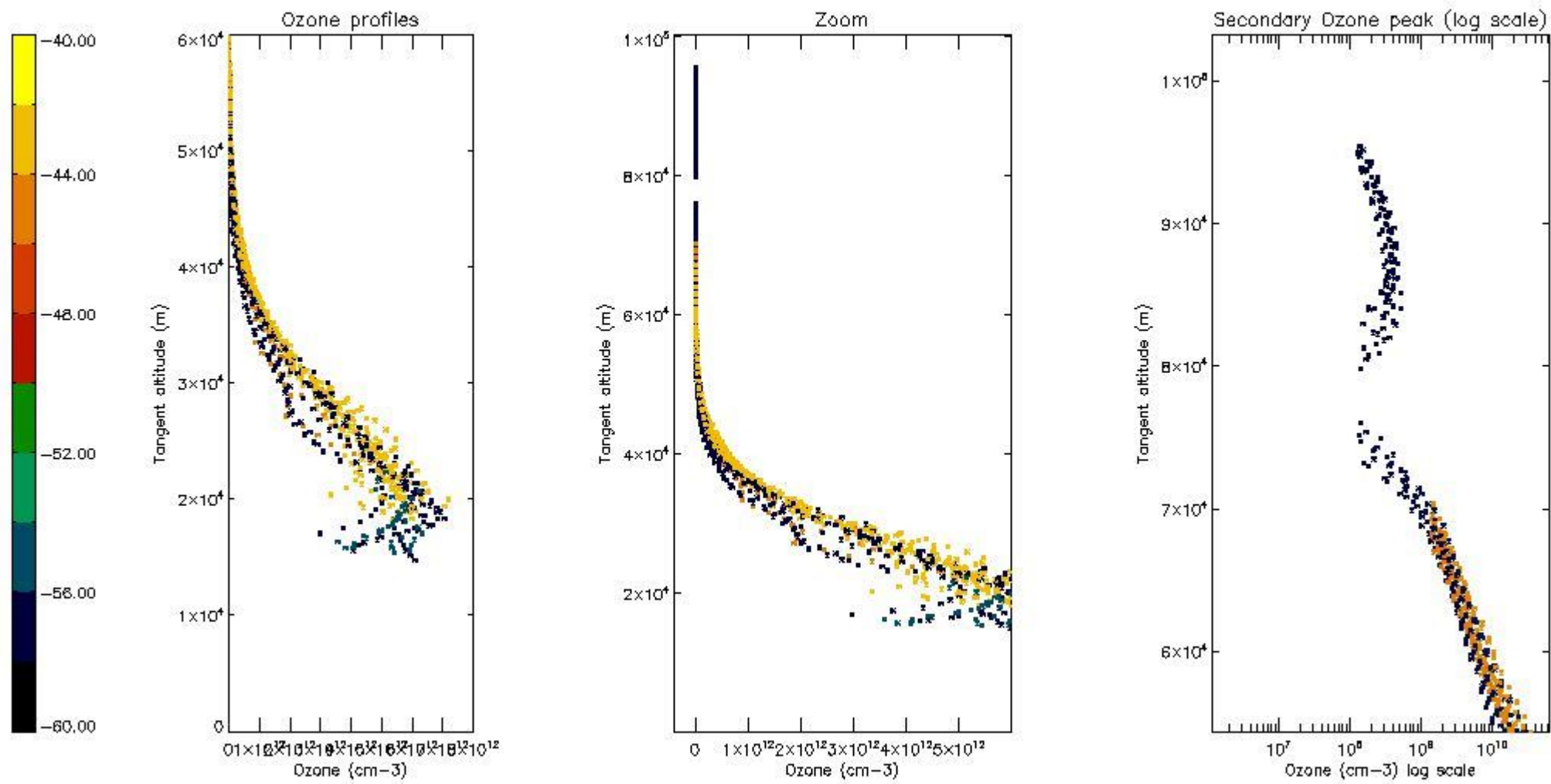
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



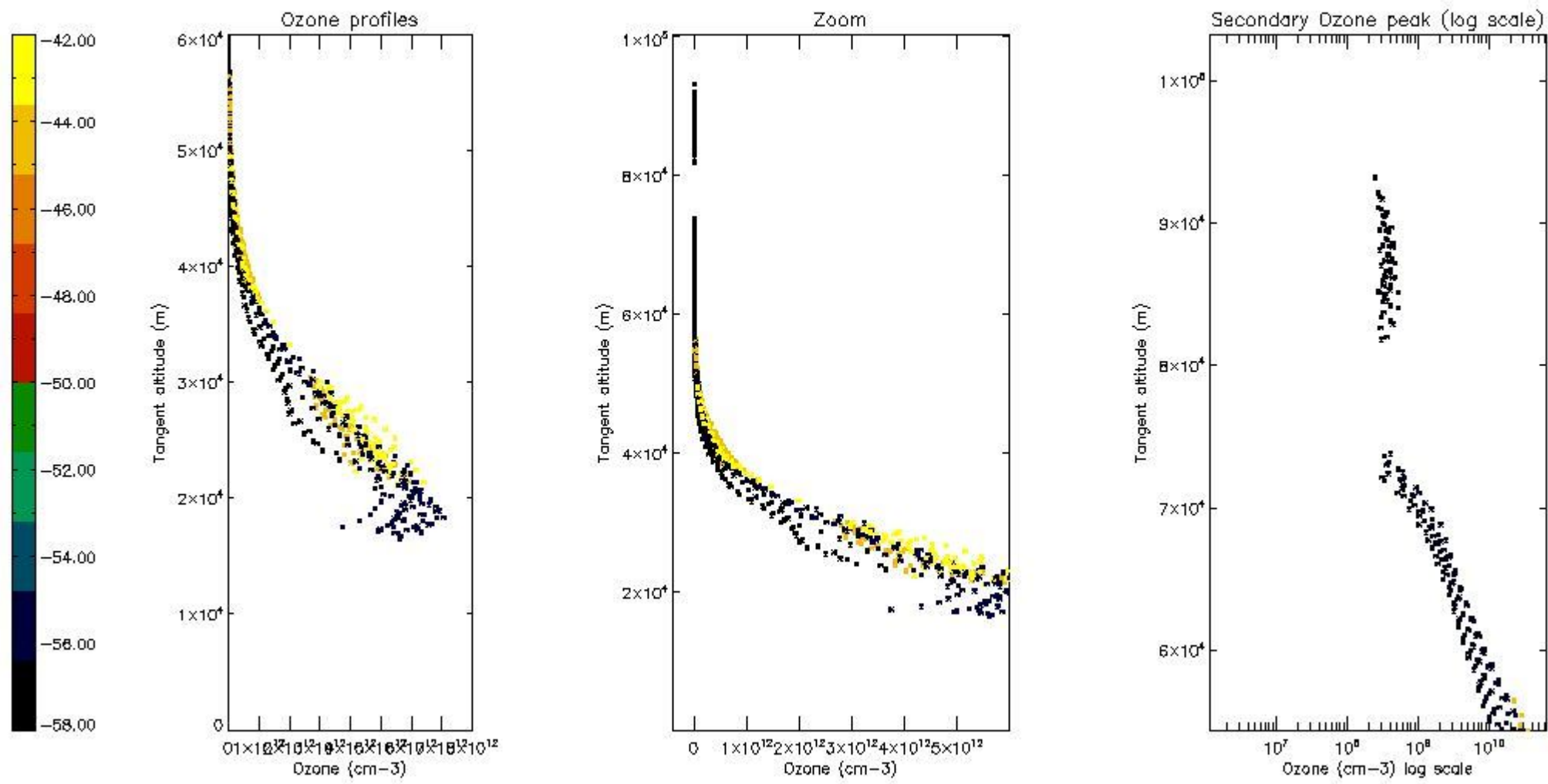
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



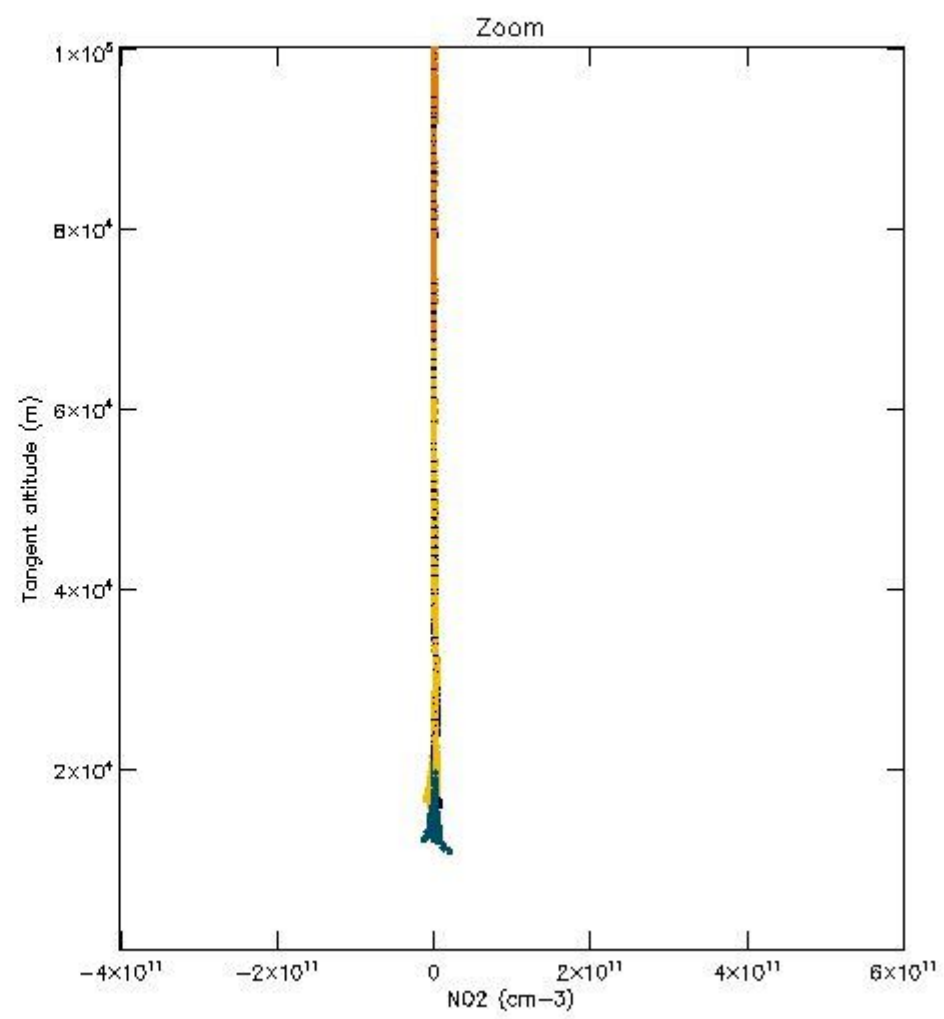
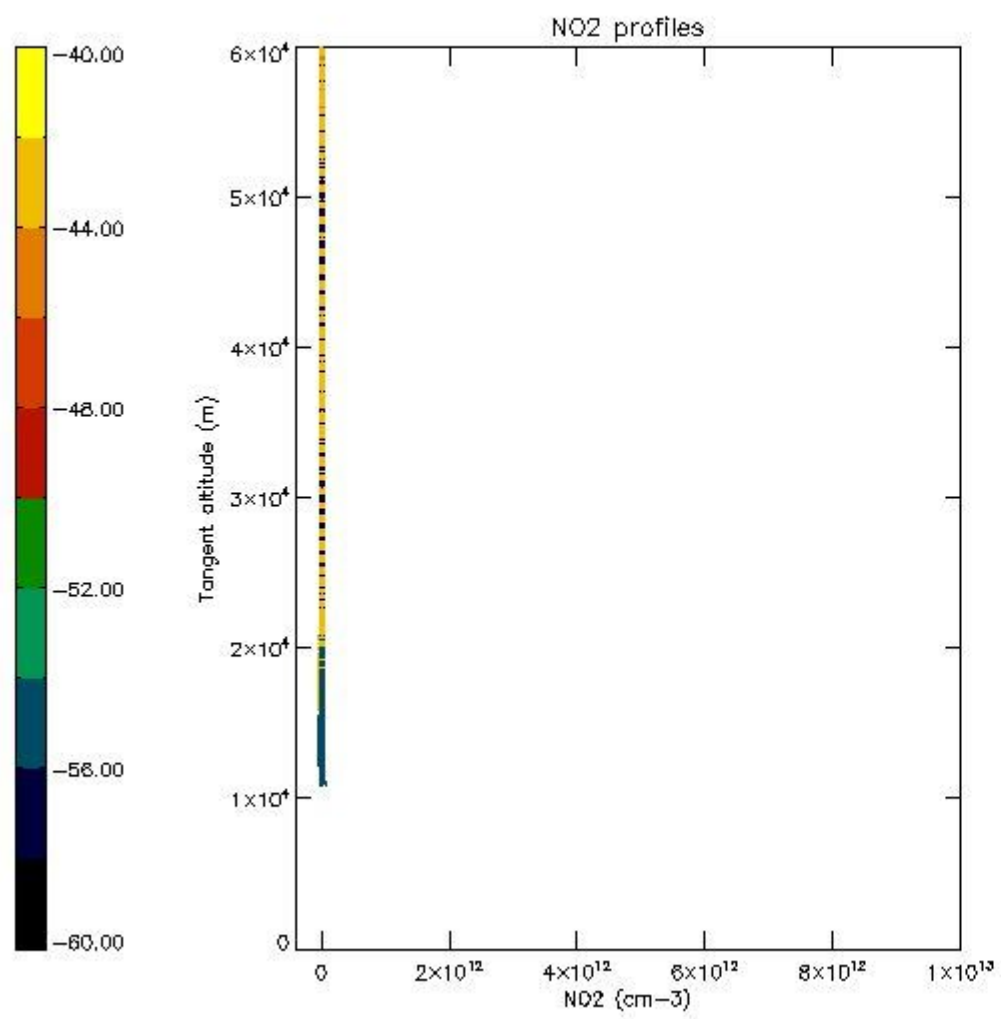
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



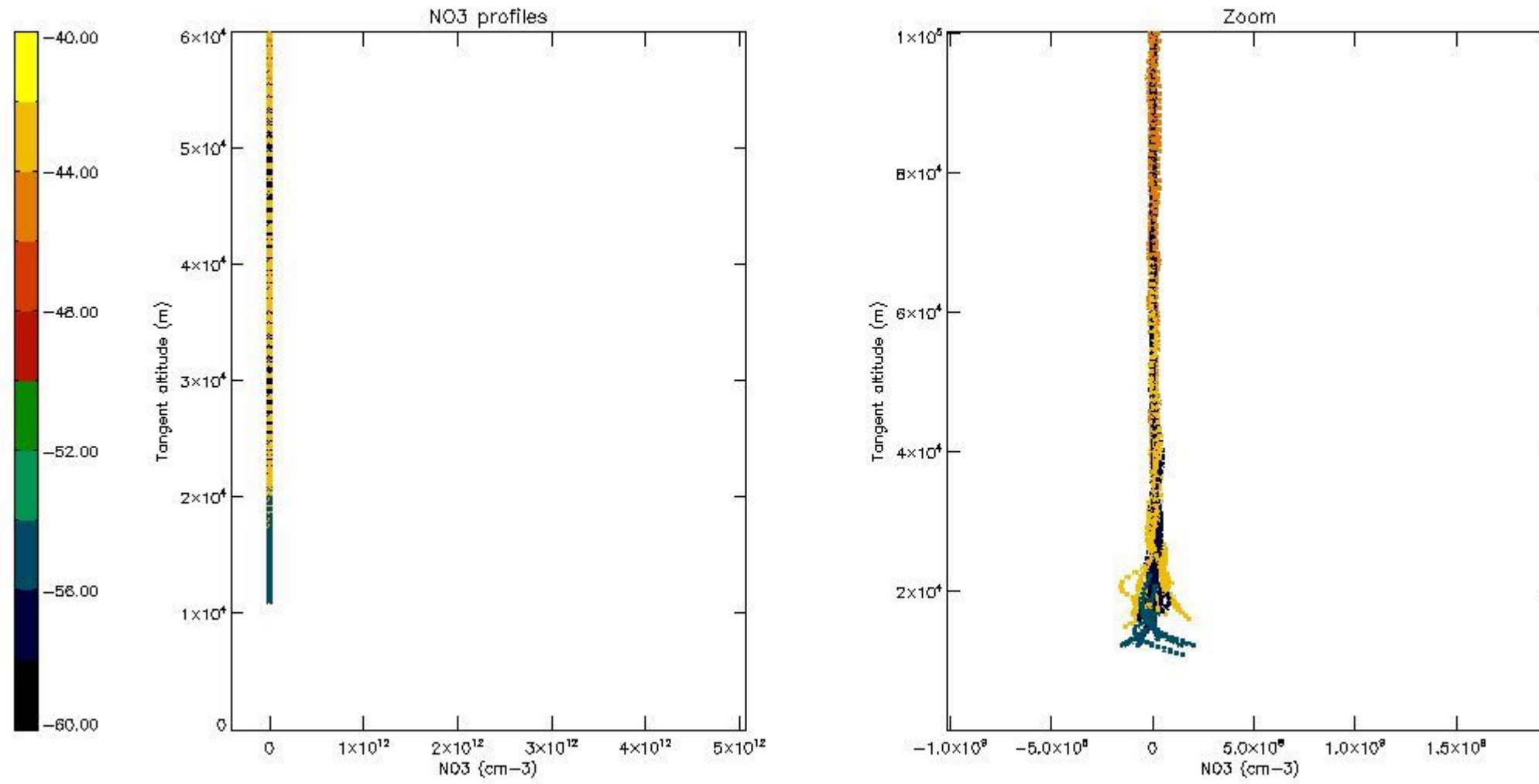
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	24-AUG-2005 02:48:31
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	24-AUG-2005 02:48:31
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	24-AUG-2005 02:48:31

GOMOS Level 2 Daily Report

SUMMARY

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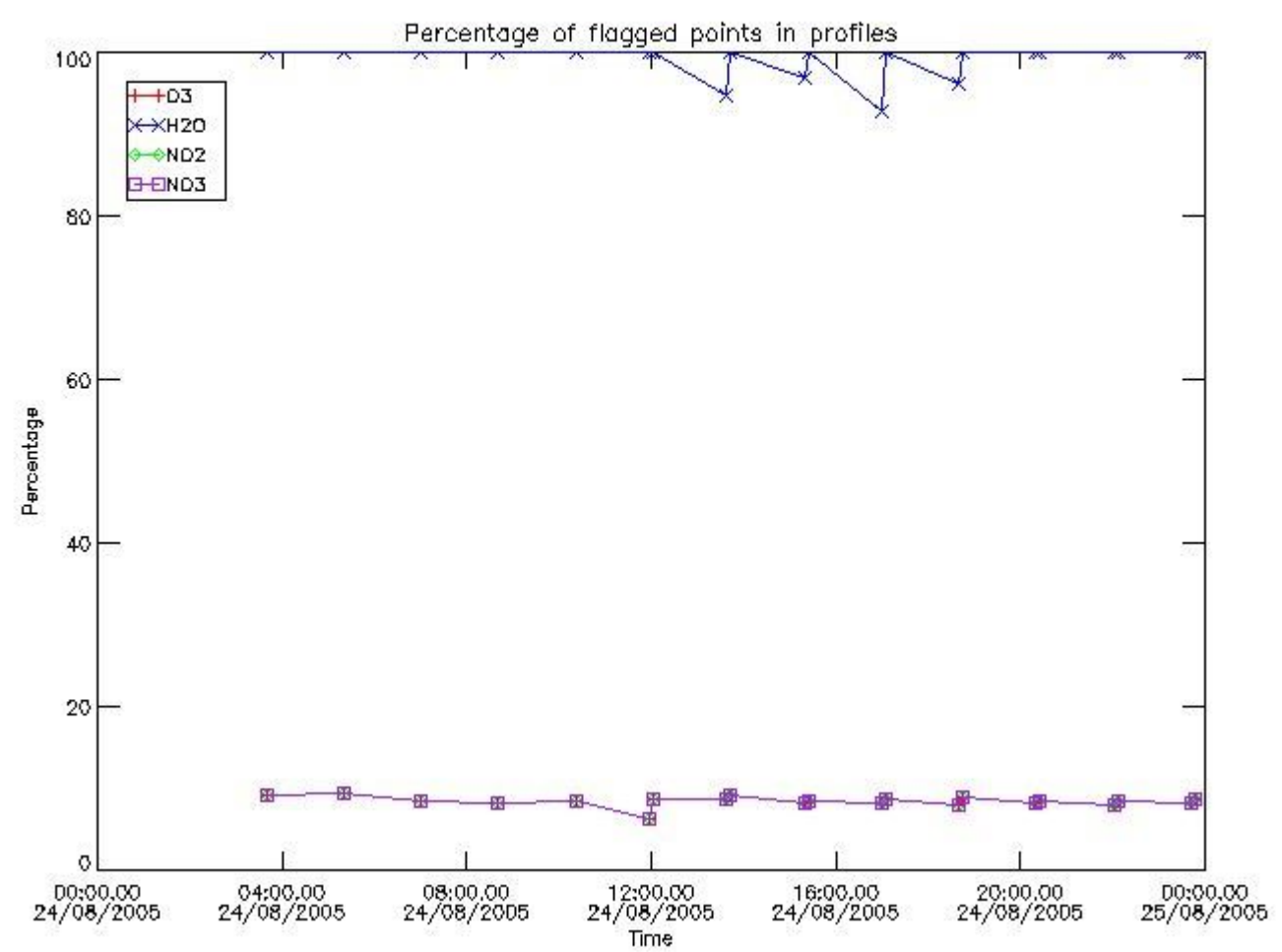
[6. Auxiliary Data Files used for the production reported in section 2](#)

102	GOM_NL__2PRFIN20050824_195250_000000482040_00128_18218_6100.N1	24-AUG-2005 19:52:50	Bright	48.000	110	37Del Cas	2.6780	8900.0	96	18218	No
103	GOM_NL__2PRFIN20050824_195855_000000562040_00128_18218_6101.N1	24-AUG-2005 19:58:55	Bright	56.000	160	23Gam Per	2.9300	4700.0	112	18218	No
104	GOM_NL__2PRFIN20050824_200103_000000622040_00128_18218_6102.N1	24-AUG-2005 20:01:03	Bright	62.000	35	33Alp Per	1.7950	6250.0	124	18218	No
105	GOM_NL__2PRFIN20050824_201208_000000542040_00128_18218_6103.N1	24-AUG-2005 20:12:08	Tw_i_and_stray	54.000	28	12Bet Tau	1.6500	15200.	108	18218	No
106	GOM_NL__2PRFIN20050824_202041_000000622040_00128_18218_6104.N1	24-AUG-2005 20:20:41	Dark	61.500	27	24Gam Ori	1.6360	26000.	123	18218	No
107	GOM_NL__2PRFIN20050824_202539_000000612040_00128_18218_6105.N1	24-AUG-2005 20:25:39	Dark	60.500	128	67Bet Eri	2.7840	9700.0	121	18218	No
108	GOM_NL__2PRFIN20050824_211457_000000542040_00129_18219_6097.N1	24-AUG-2005 21:14:57	Bright	54.000	90	54Alp Peg	2.4870	11000.	108	18219	No
109	GOM_NL__2PRFIN20050824_211922_000000562040_00129_18219_6098.N1	24-AUG-2005 21:19:22	Bright	56.000	93	53Bet Peg	2.5200	3100.0	112	18219	No
110	GOM_NL__2PRFIN20050824_213107_000000492040_00129_18219_6099.N1	24-AUG-2005 21:31:07	Bright	49.000	68	18Alp Cas	2.2250	4500.0	98	18219	No
111	GOM_NL__2PRFIN20050824_213325_000000452040_00129_18219_6100.N1	24-AUG-2005 21:33:25	Bright	45.000	110	37Del Cas	2.6780	8900.0	90	18219	No
112	GOM_NL__2PRFIN20050824_213930_000000552040_00129_18219_6101.N1	24-AUG-2005 21:39:30	Bright	54.500	160	23Gam Per	2.9300	4700.0	109	18219	No
113	GOM_NL__2PRFIN20050824_214138_000000612040_00129_18219_6102.N1	24-AUG-2005 21:41:38	Bright	61.000	35	33Alp Per	1.7950	6250.0	122	18219	No
114	GOM_NL__2PRFIN20050824_215240_000000562040_00129_18219_6103.N1	24-AUG-2005 21:52:40	Tw_i_and_stray	55.500	28	12Bet Tau	1.6500	15200.	111	18219	No
115	GOM_NL__2PRFIN20050824_220117_000000642040_00129_18219_6104.N1	24-AUG-2005 22:01:17	Dark	63.500	27	24Gam Ori	1.6360	26000.	127	18219	No
116	GOM_NL__2PRFIN20050824_220616_000000612040_00129_18219_6105.N1	24-AUG-2005 22:06:16	Dark	60.500	128	67Bet Eri	2.7840	9700.0	121	18219	No
117	GOM_NL__2PRFIN20050824_225532_000000552040_00130_18220_6389.N1	24-AUG-2005 22:55:32	Bright	55.000	90	54Alp Peg	2.4870	11000.	110	18220	No
118	GOM_NL__2PRFIN20050824_225956_000000562040_00130_18220_6390.N1	24-AUG-2005 22:59:56	Bright	56.000	93	53Bet Peg	2.5200	3100.0	112	18220	No
119	GOM_NL__2PRFIN20050824_231142_000000492040_00130_18220_6391.N1	24-AUG-2005 23:11:42	Bright	49.000	68	18Alp Cas	2.2250	4500.0	98	18220	No
120	GOM_NL__2PRFIN20050824_231400_000000472040_00130_18220_6392.N1	24-AUG-2005 23:14:00	Bright	47.000	110	37Del Cas	2.6780	8900.0	94	18220	No
121	GOM_NL__2PRFIN20050824_232005_000000542040_00130_18220_6393.N1	24-AUG-2005 23:20:05	Bright	54.000	160	23Gam Per	2.9300	4700.0	108	18220	No
122	GOM_NL__2PRFIN20050824_232213_000000622040_00130_18220_6394.N1	24-AUG-2005 23:22:13	Bright	61.500	35	33Alp Per	1.7950	6250.0	123	18220	No
123	GOM_NL__2PRFIN20050824_233316_000000602040_00130_18220_6395.N1	24-AUG-2005 23:33:16	Tw_i_and_stray	59.500	28	12Bet Tau	1.6500	15200.	119	18220	No
124	GOM_NL__2PRFIN20050824_234154_000000632040_00130_18220_6396.N1	24-AUG-2005 23:41:54	Dark	63.000	27	24Gam Ori	1.6360	26000.	126	18220	No
125	GOM_NL__2PRFIN20050824_234653_000000582040_00130_18220_6397.N1	24-AUG-2005 23:46:53	Dark	58.000	128	67Bet Eri	2.7840	9700.0	116	18220	No

3. Quality information per product

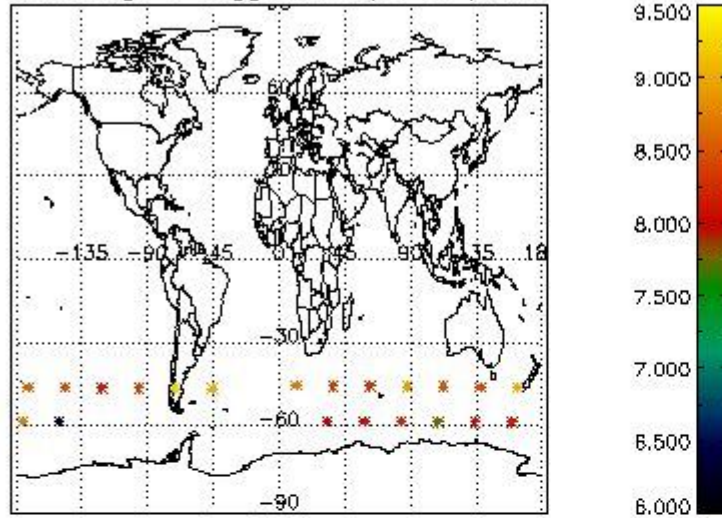
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

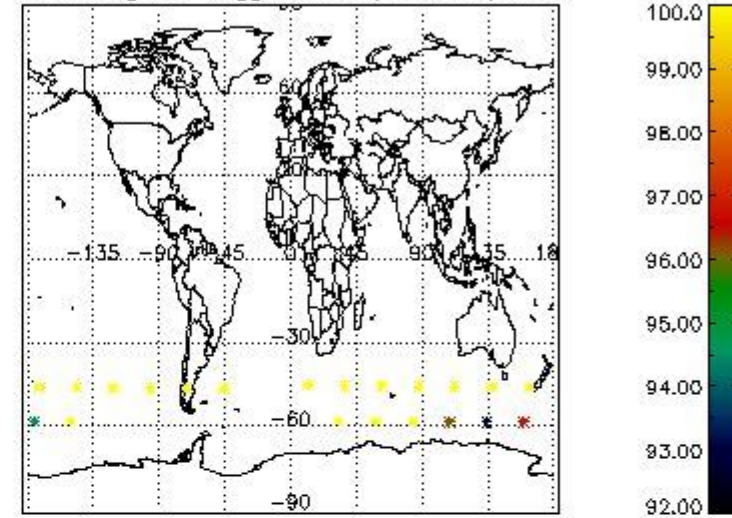


3.2 Plot quality information per product (world map)

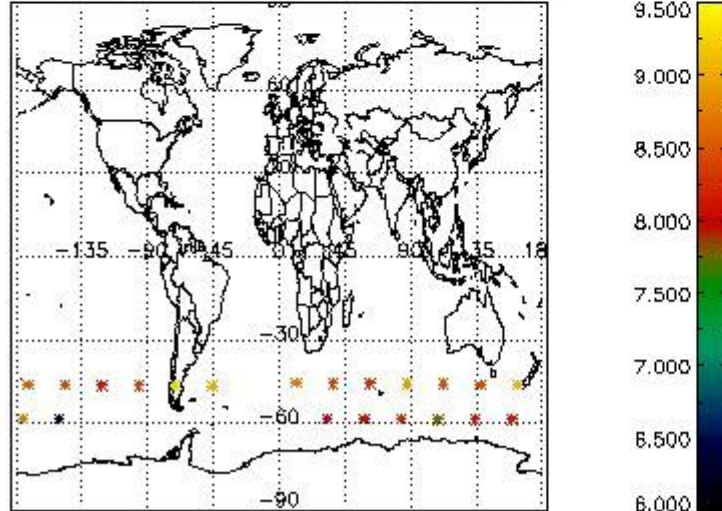
Percentage of flagged data per O3 profile



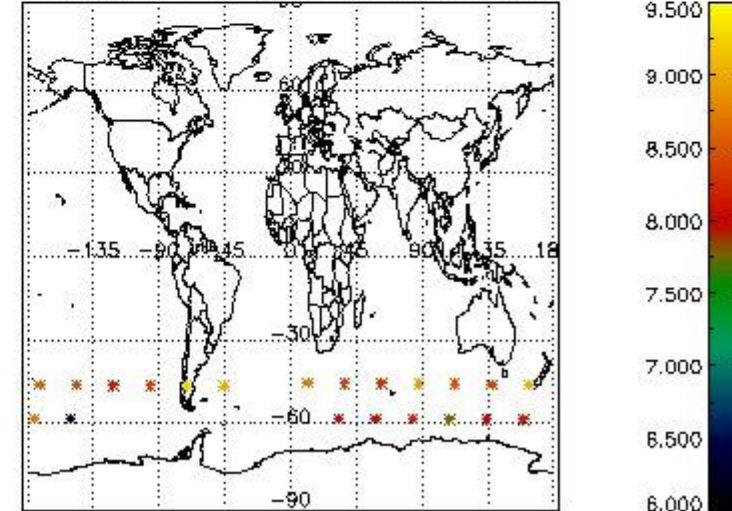
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

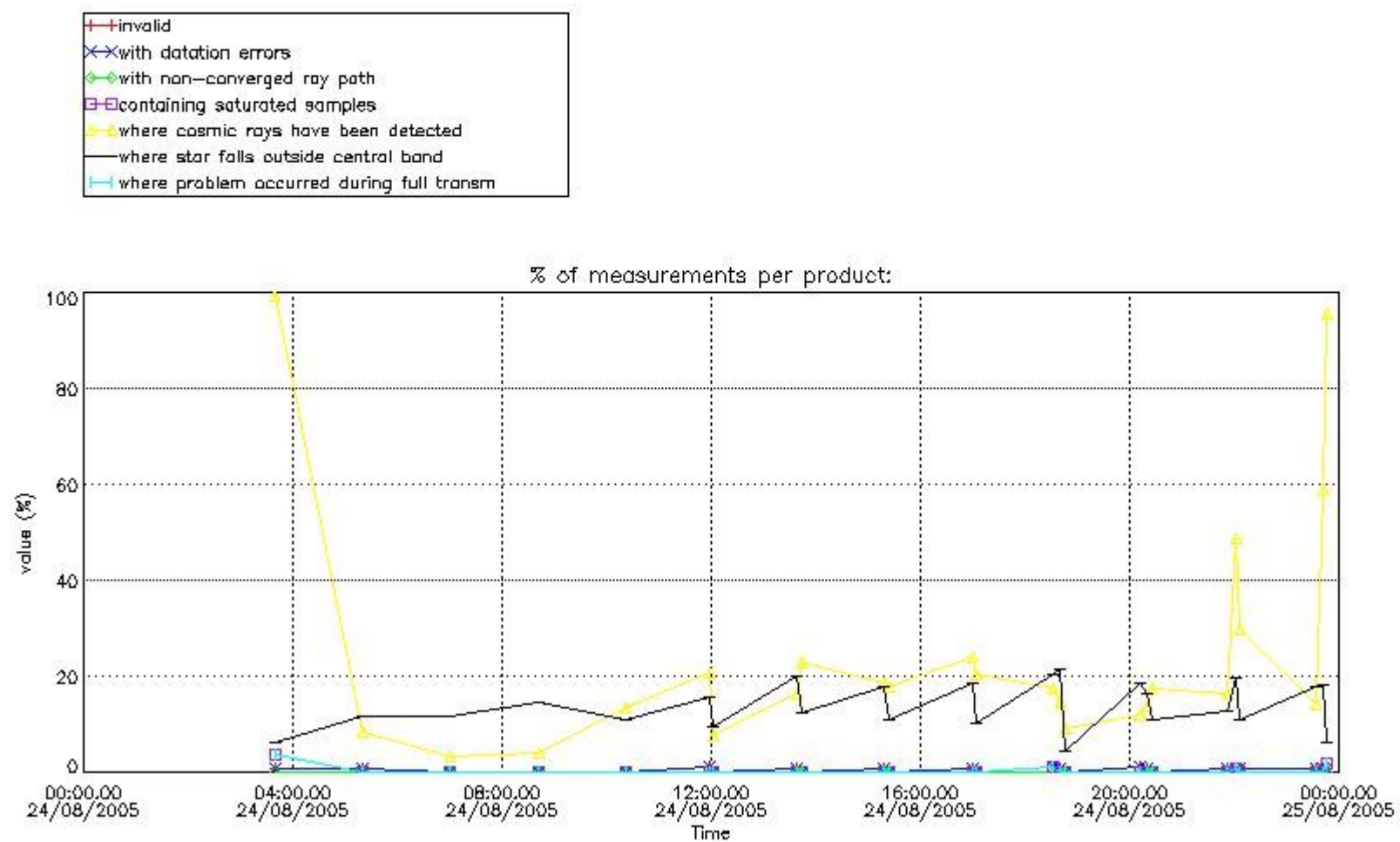


4. Level 1 quality information per product

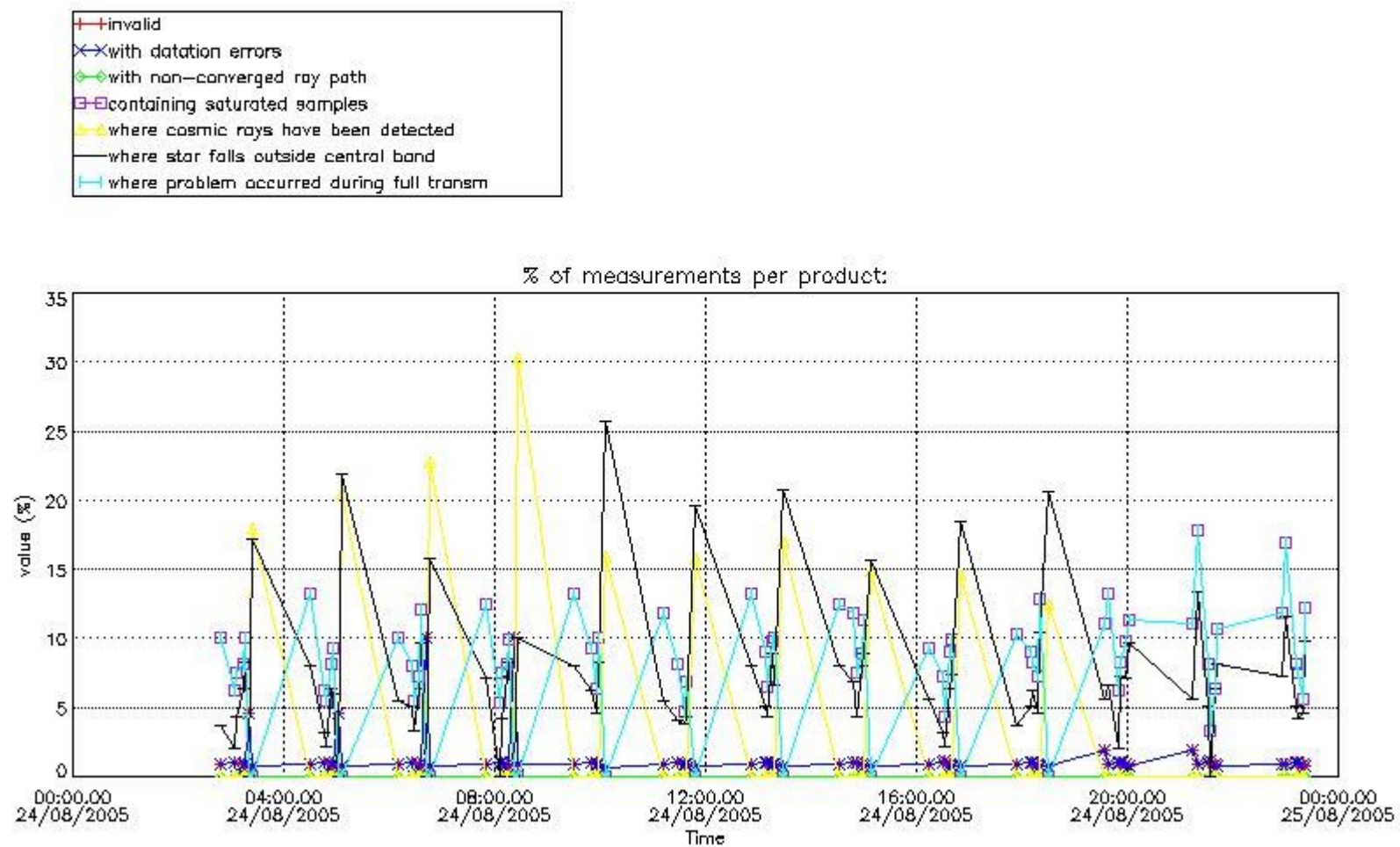
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



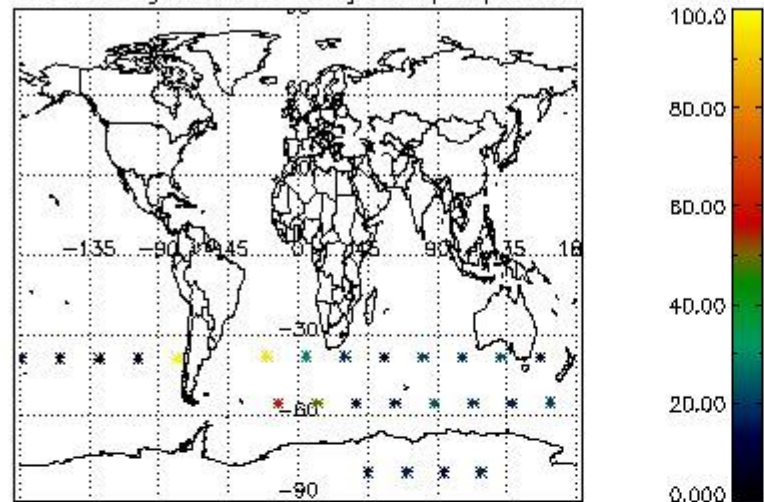
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



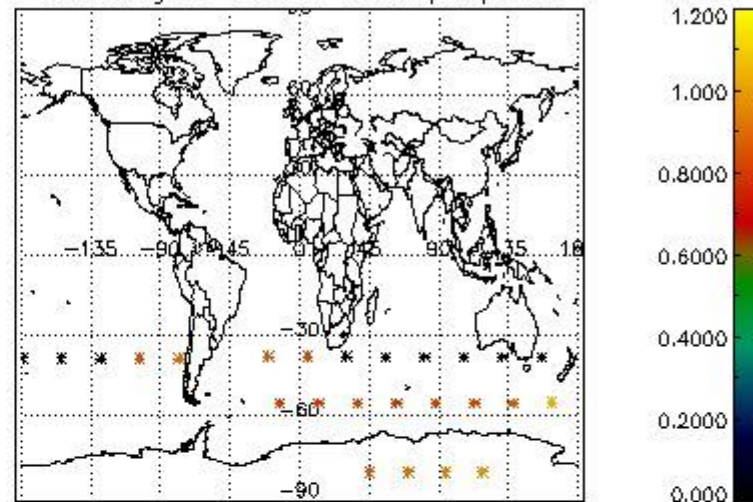
4.2 Plot quality information per product coming from level 1b processing (world map)

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

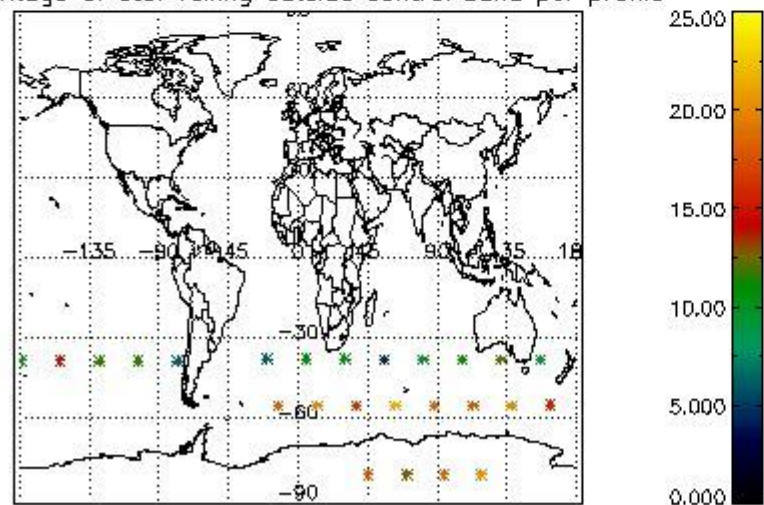
Percentage of cosmic ray hits per profile



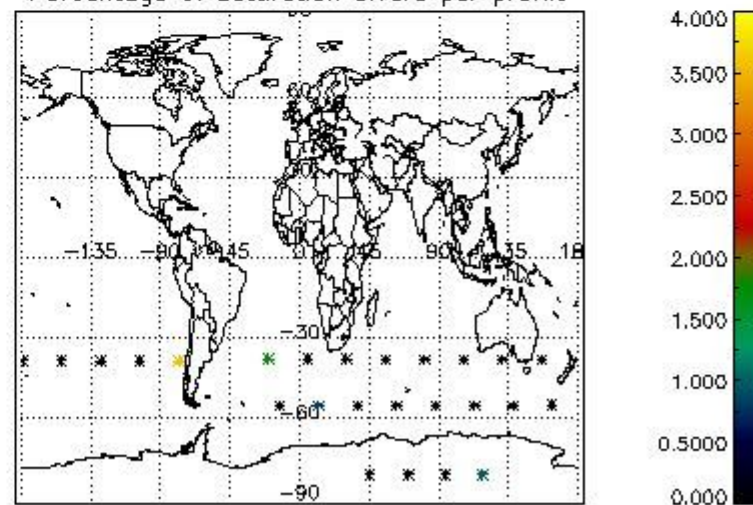
Percentage of datation errors per profile



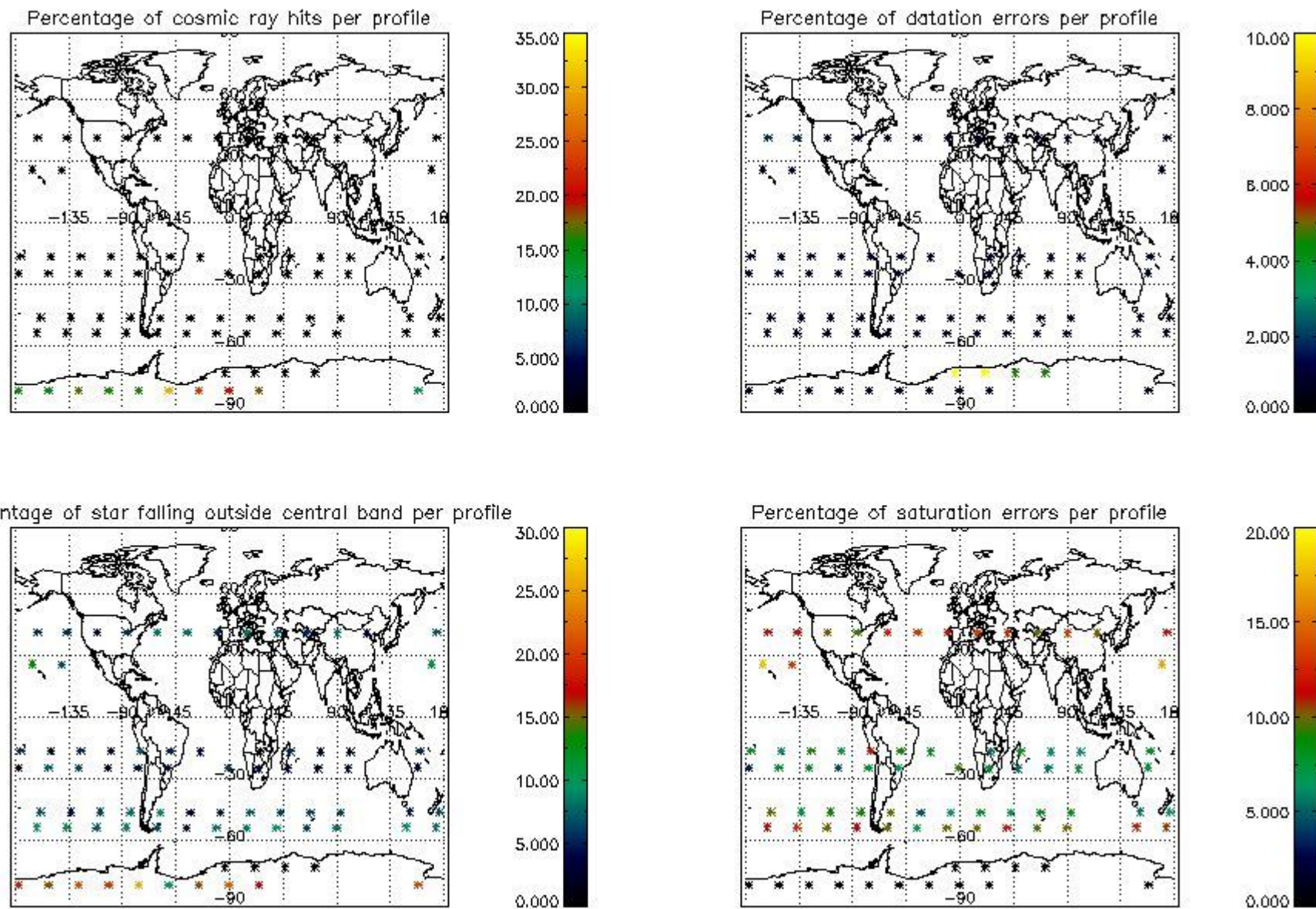
Percentage of star falling outside central band per profile



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

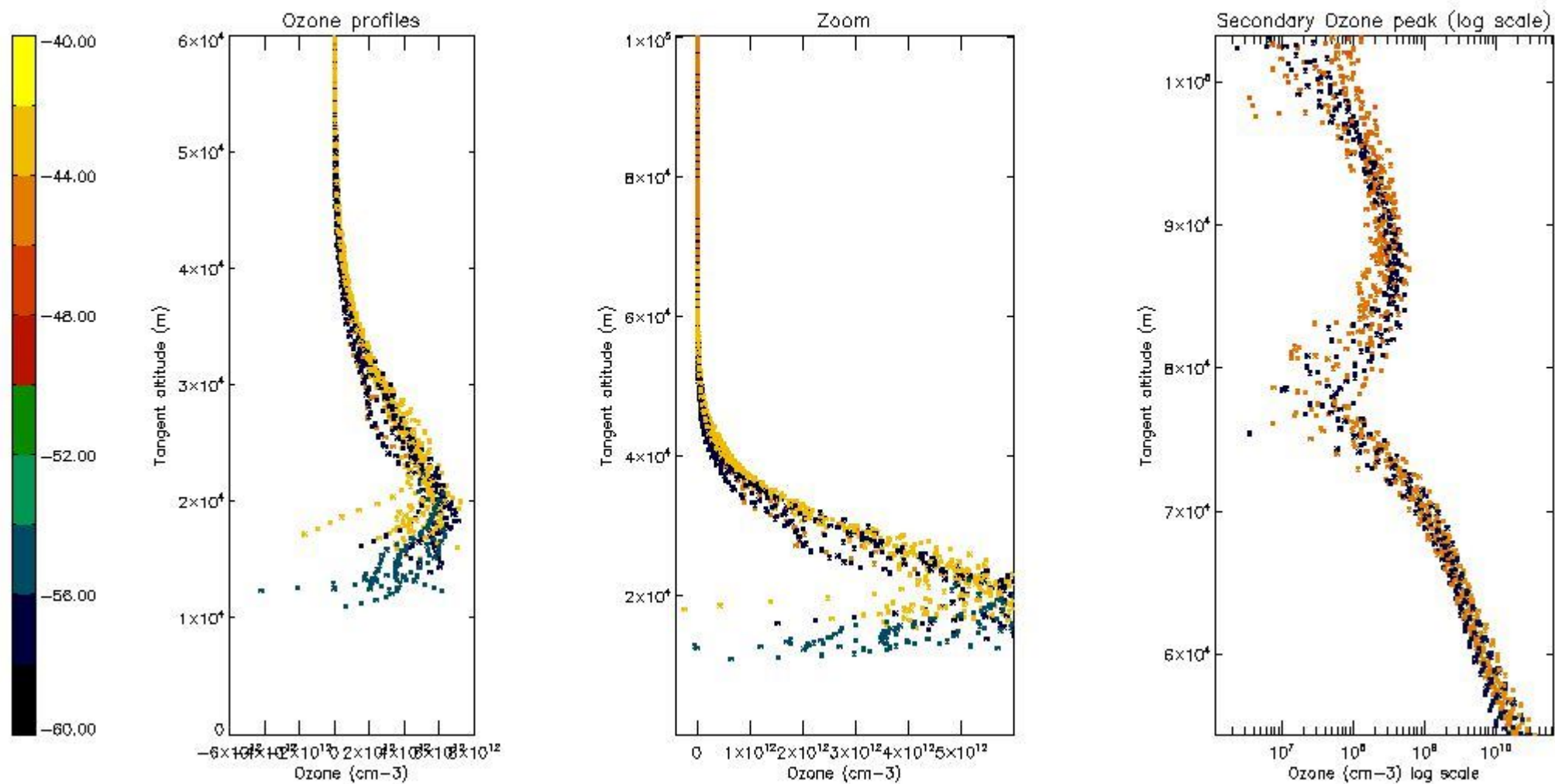
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	23
STD < 20	14

STD < 10	13
STD < 5	8

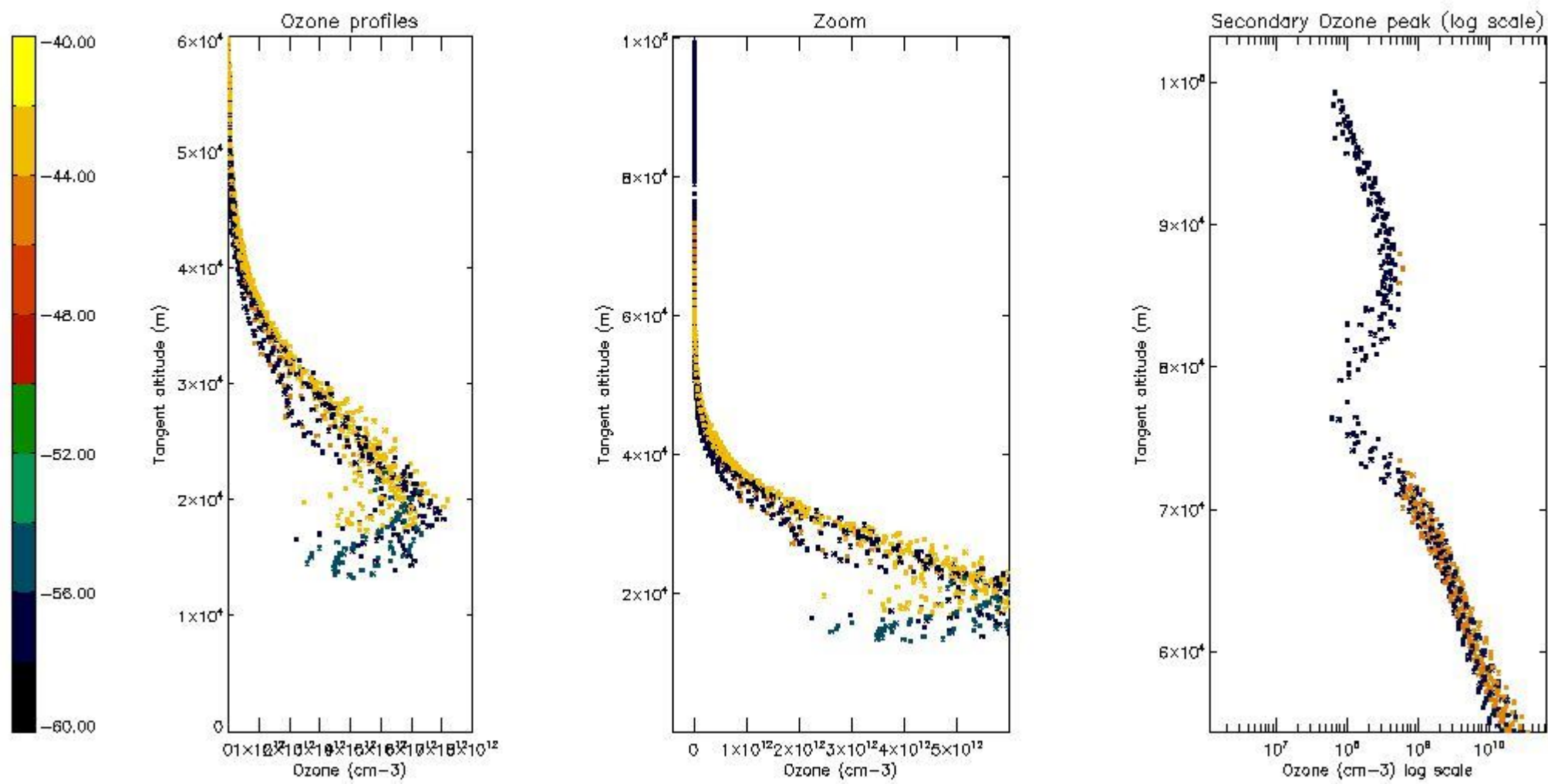
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



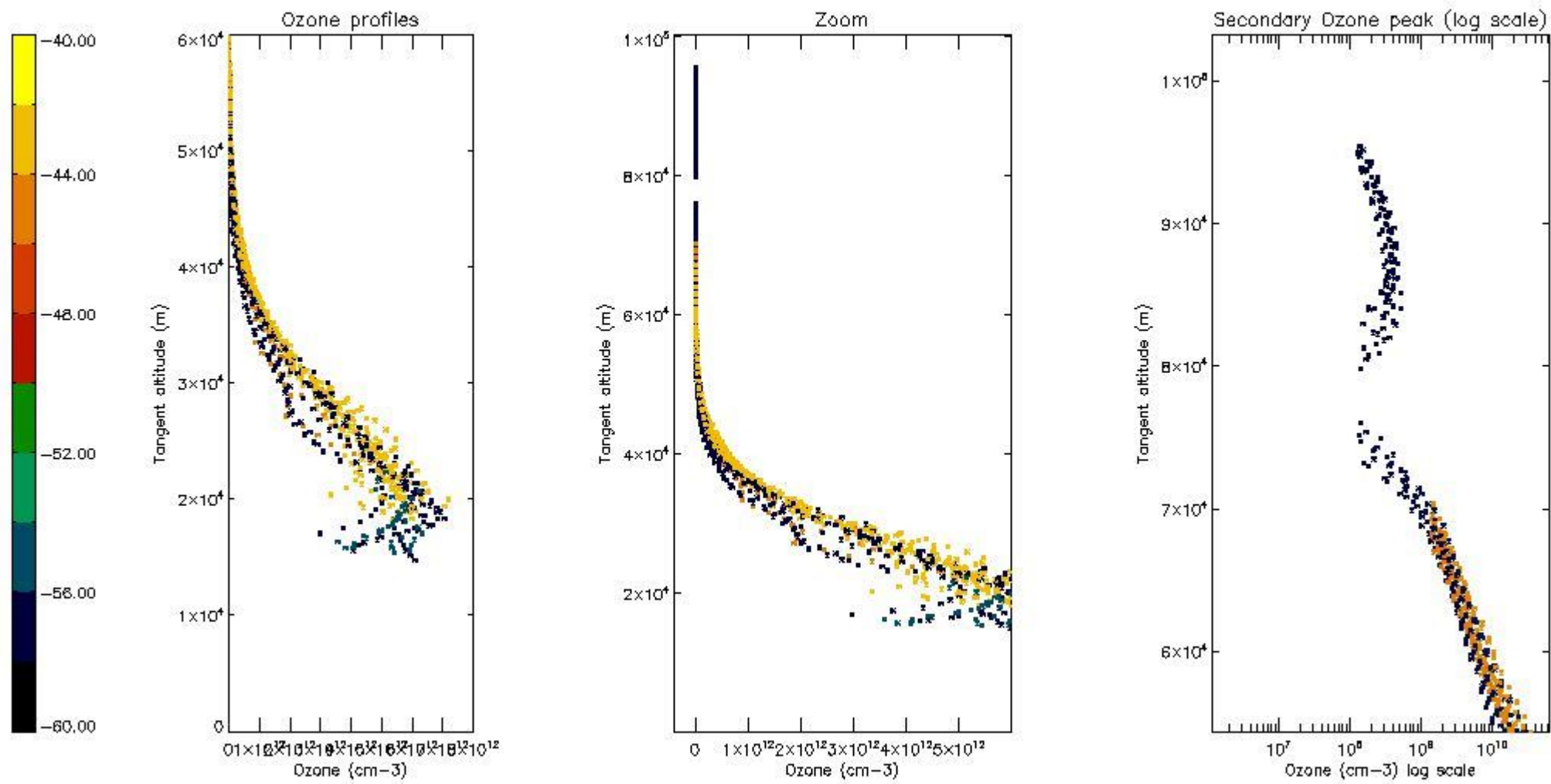
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



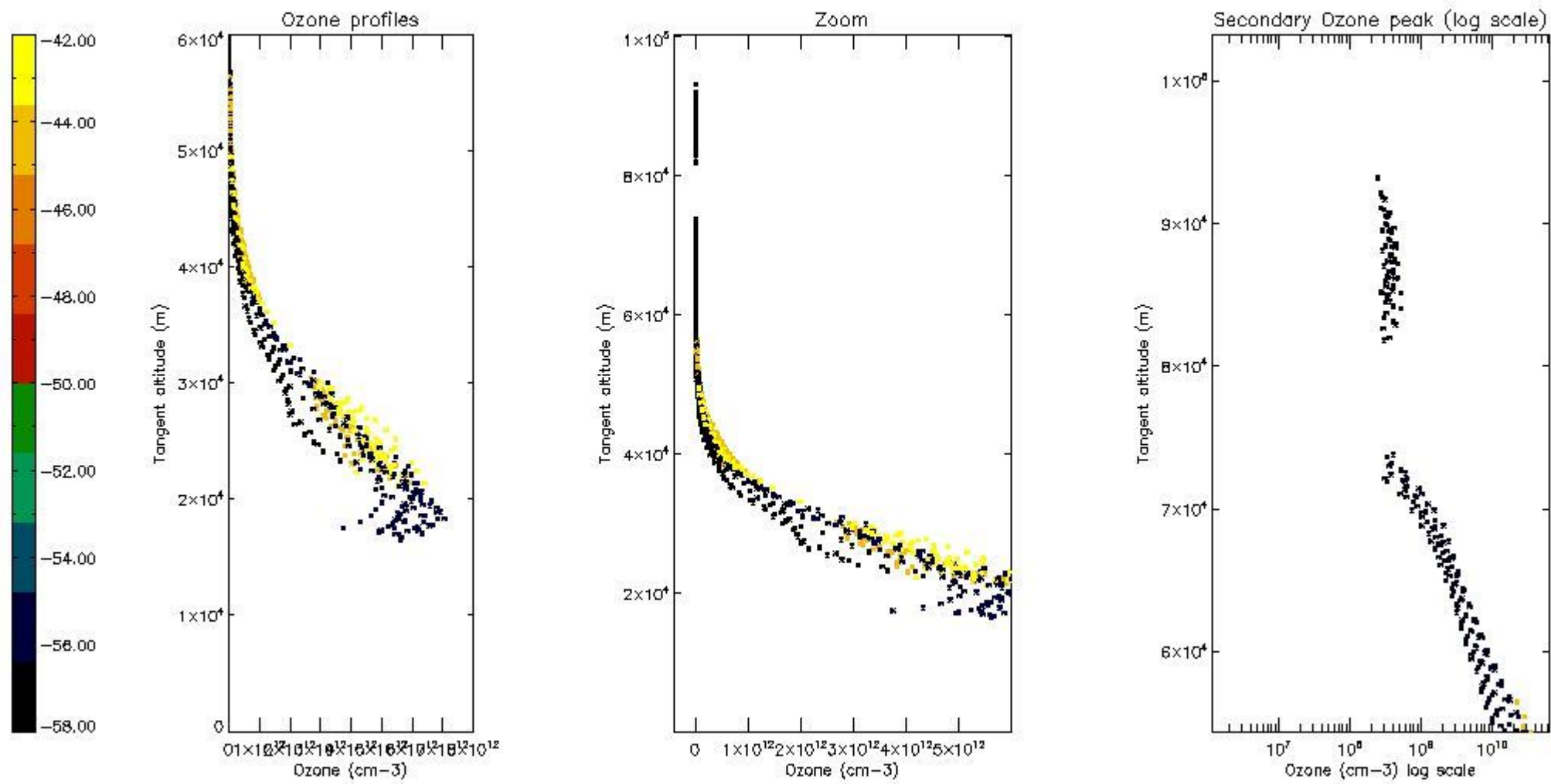
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



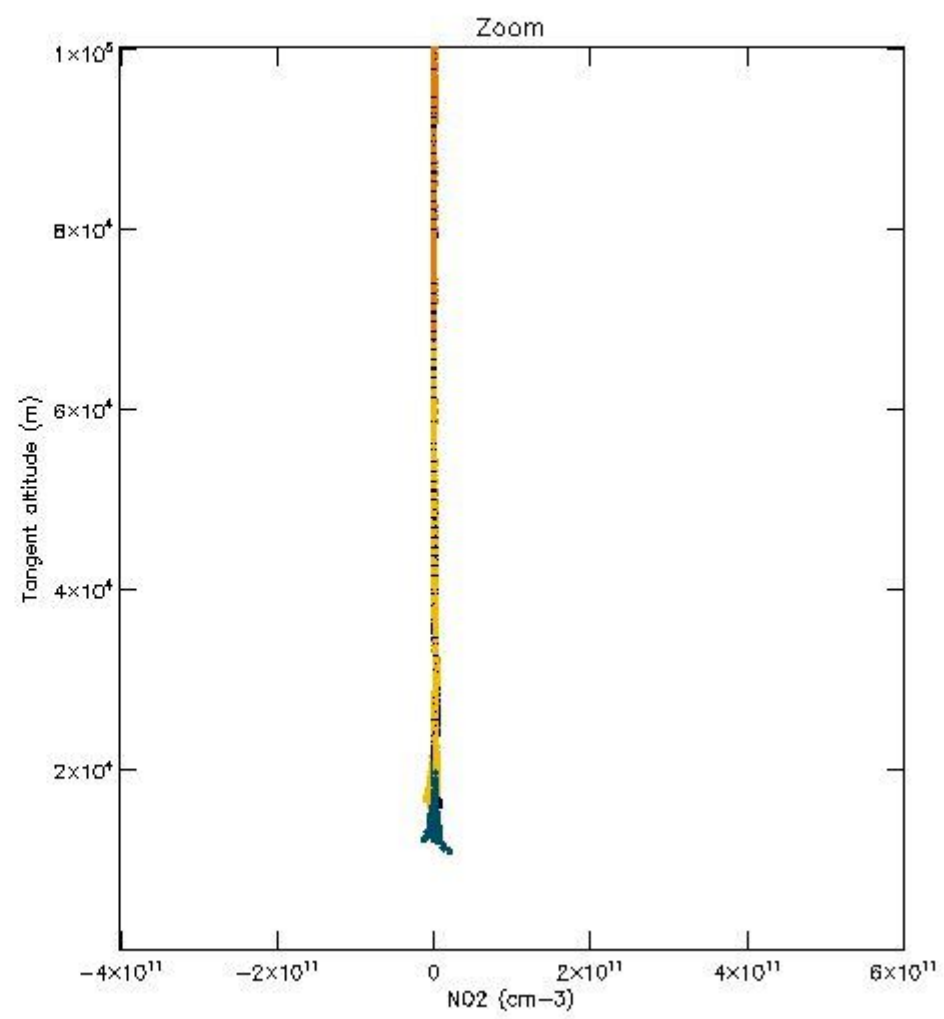
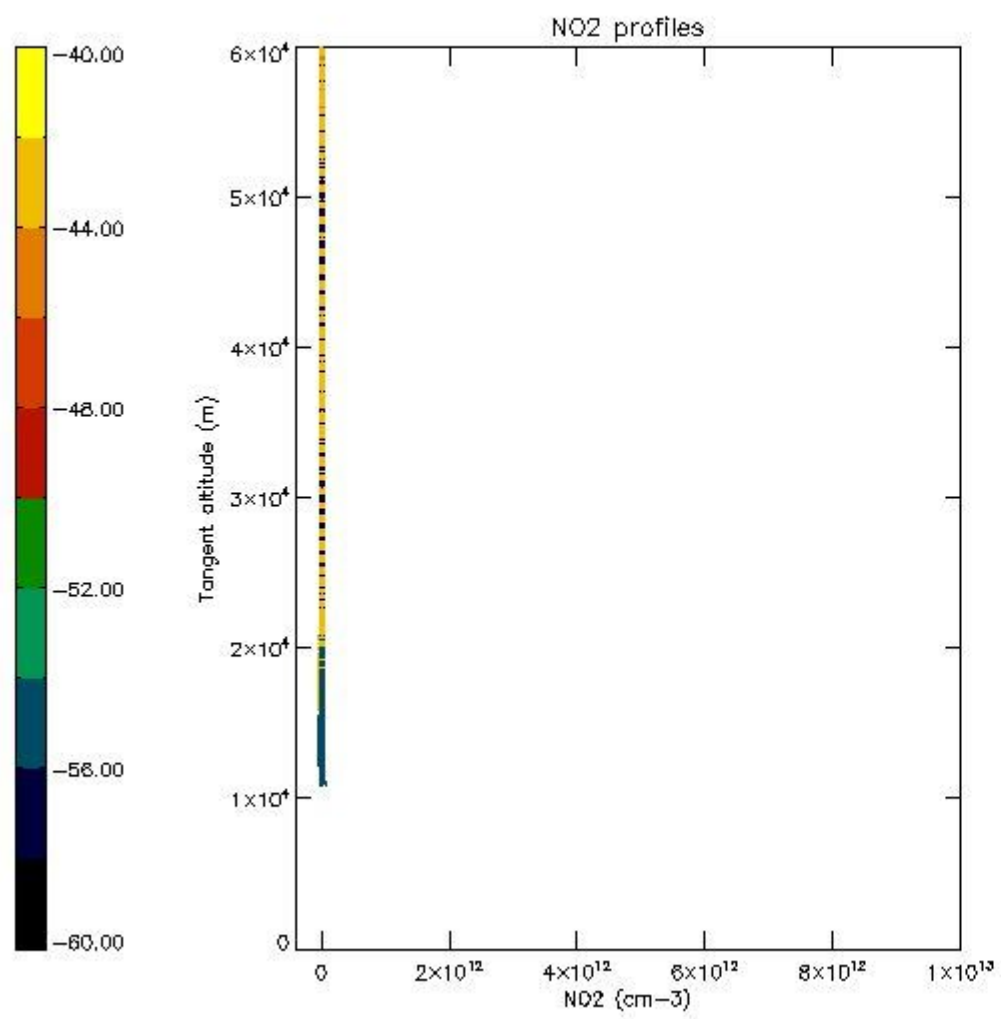
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



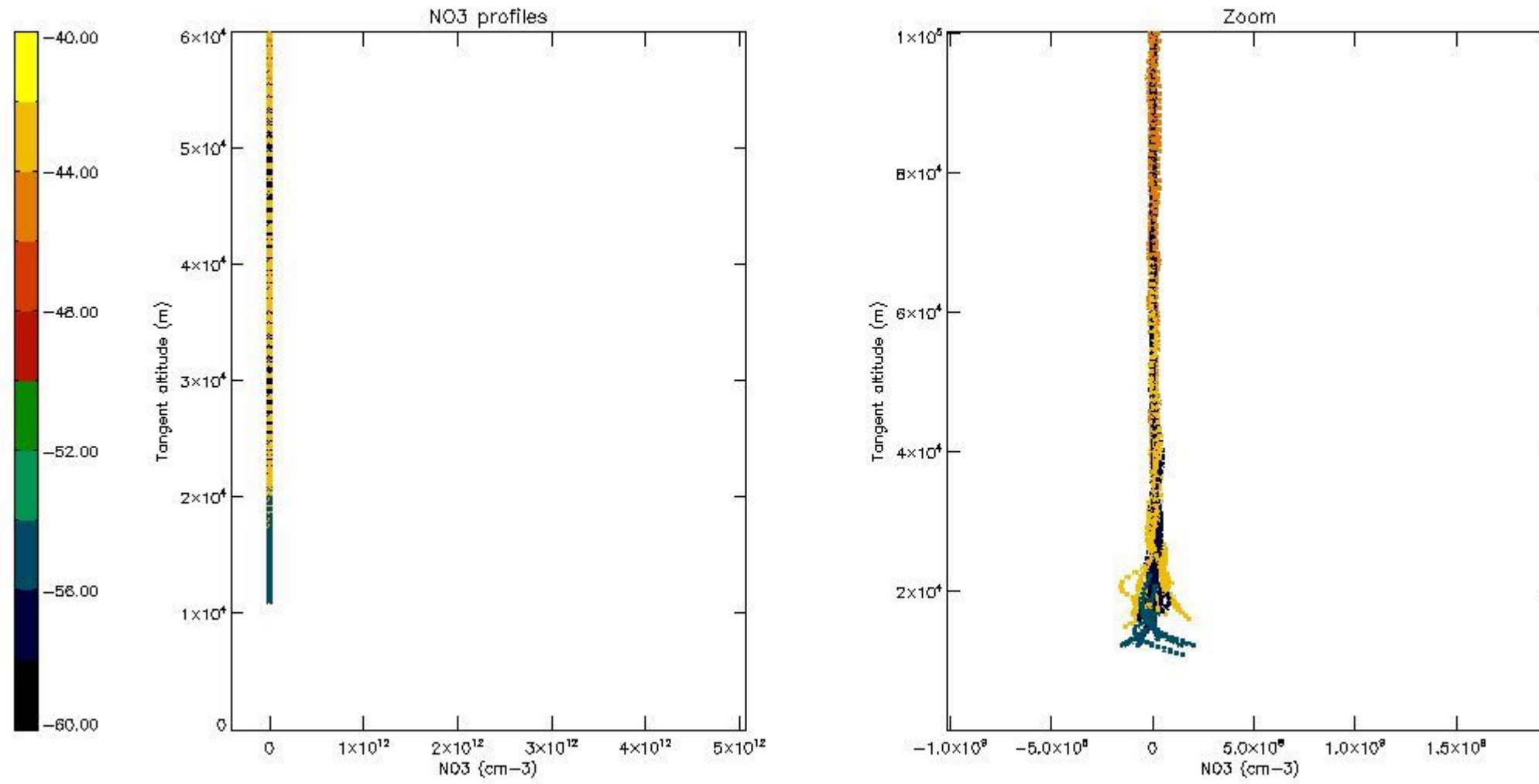
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

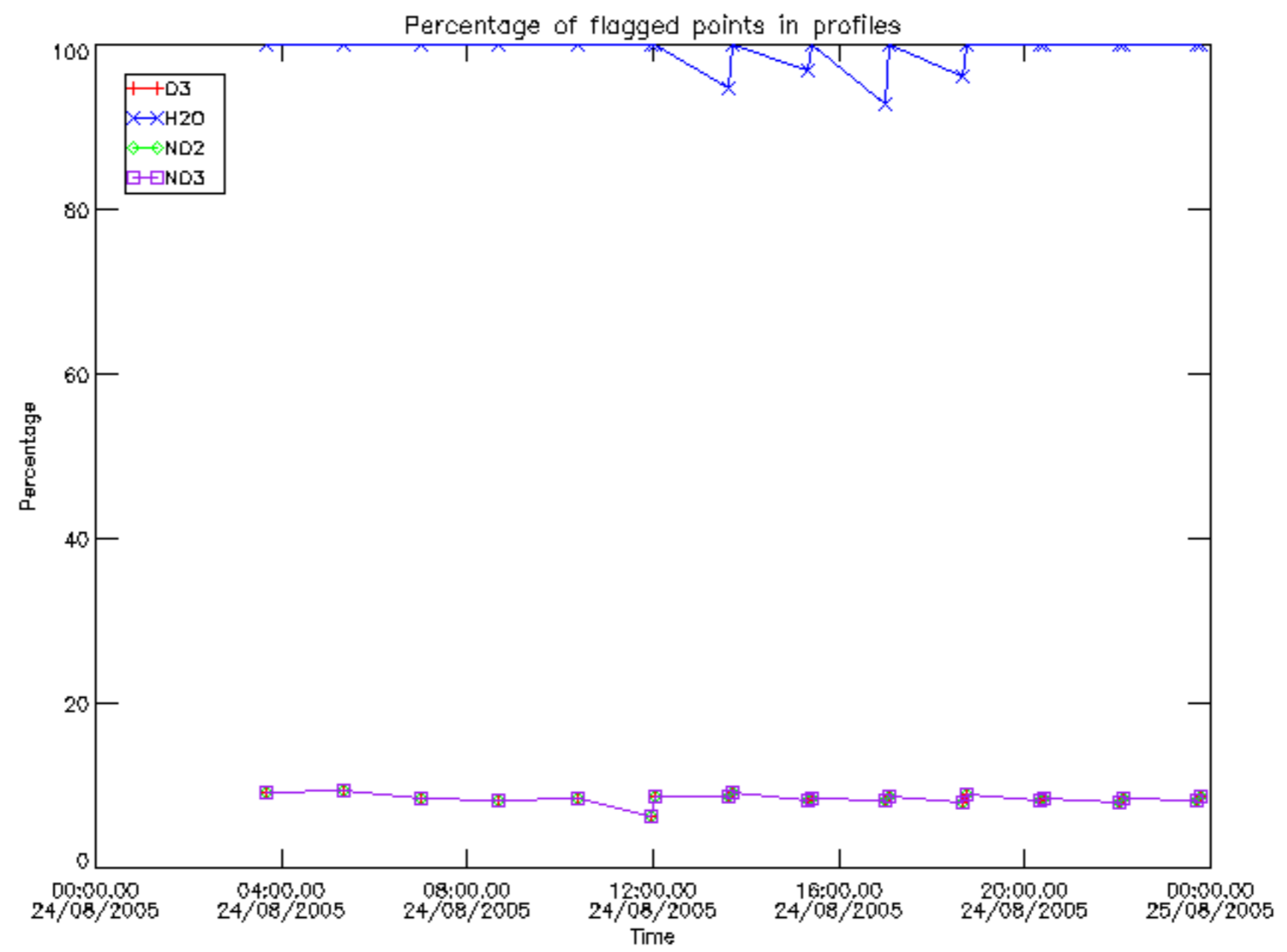
The colorbar represents the latitude.



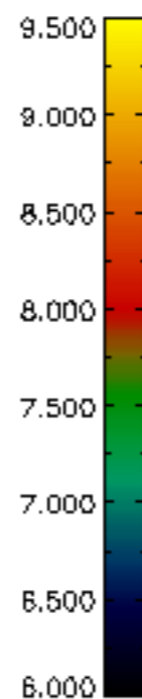
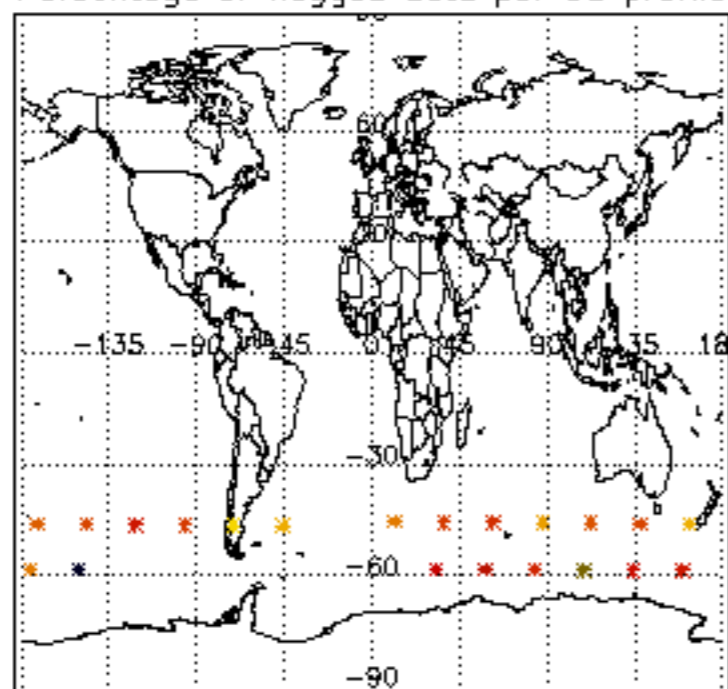
6. Auxiliary Data Files used for the production reported in section 2

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.

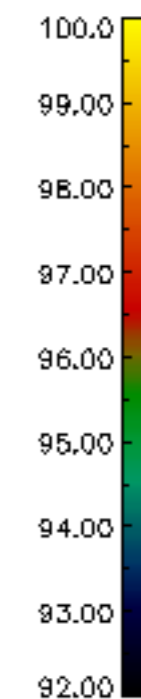
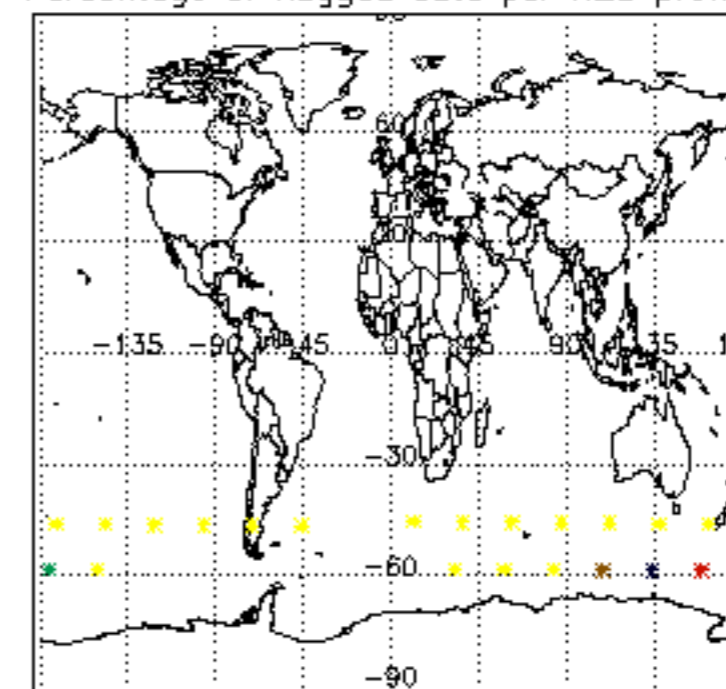
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	24-AUG-2005 02:48:31
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	24-AUG-2005 02:48:31
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	24-AUG-2005 02:48:31



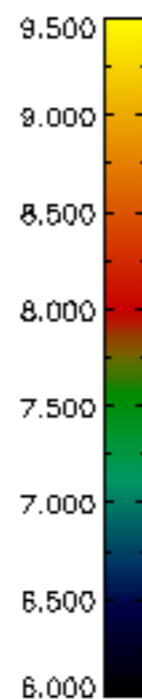
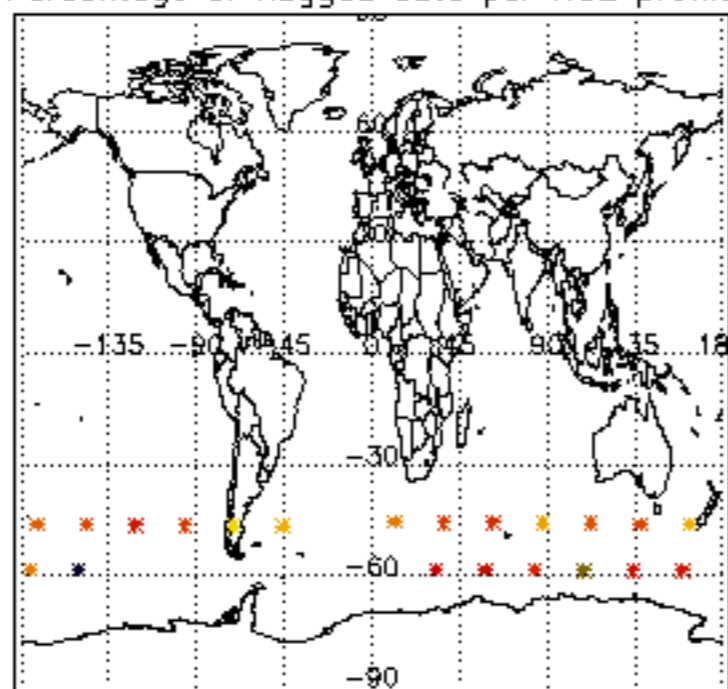
Percentage of flagged data per D3 profile



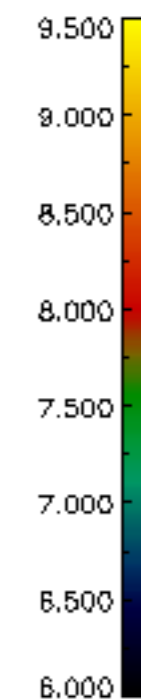
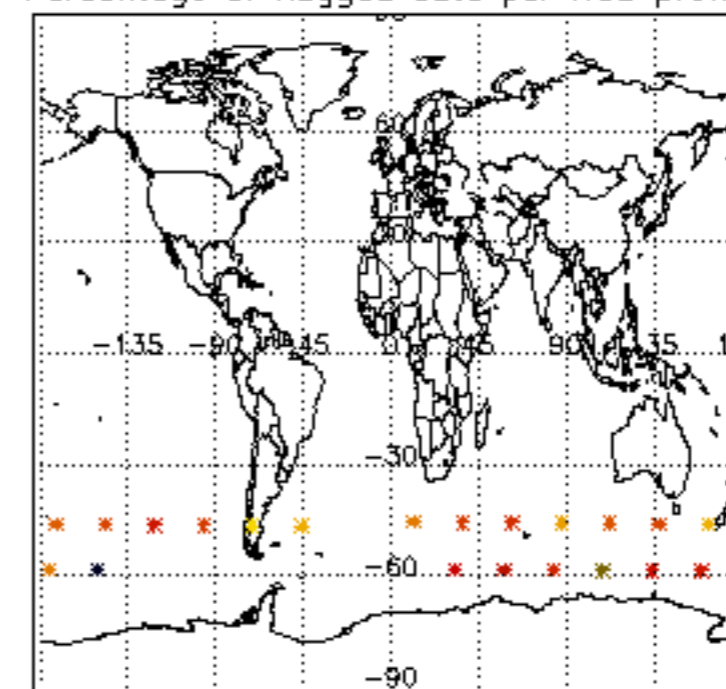
Percentage of flagged data per H2O profile

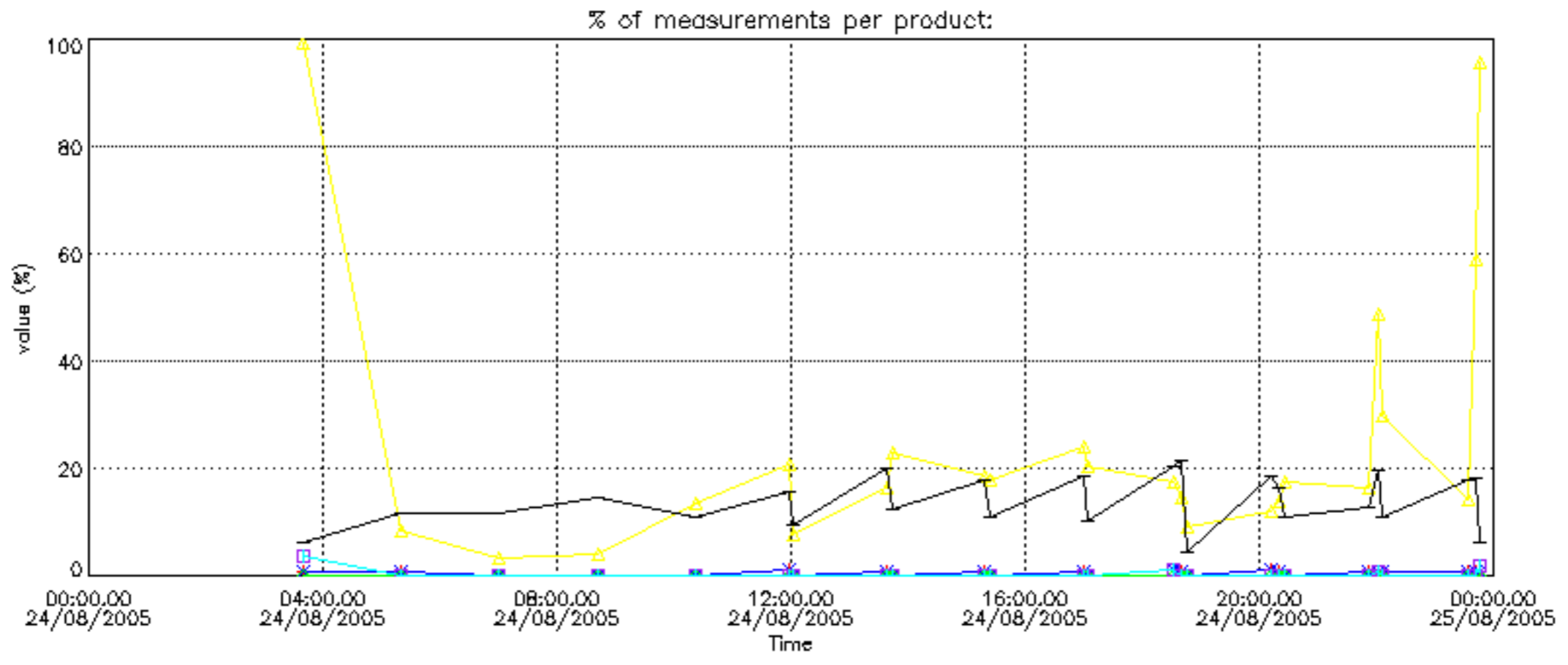


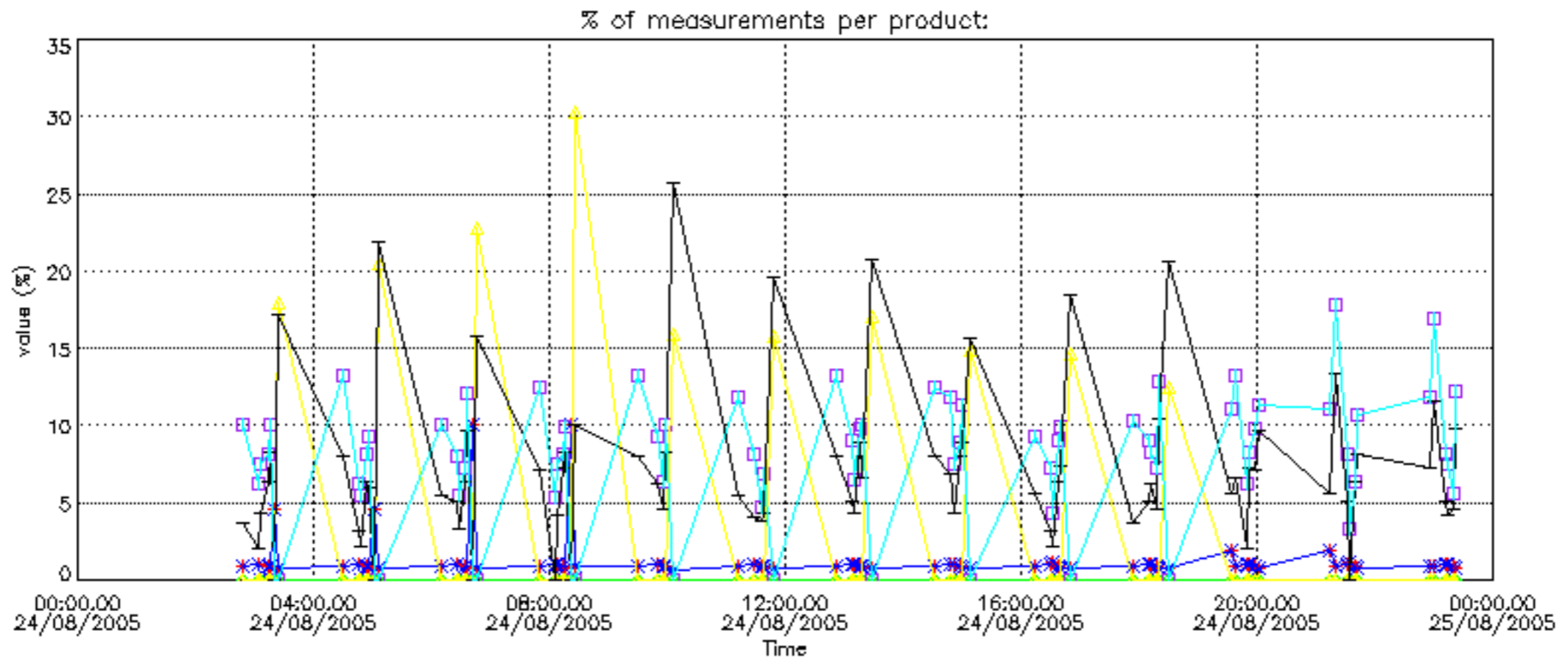
Percentage of flagged data per NO2 profile



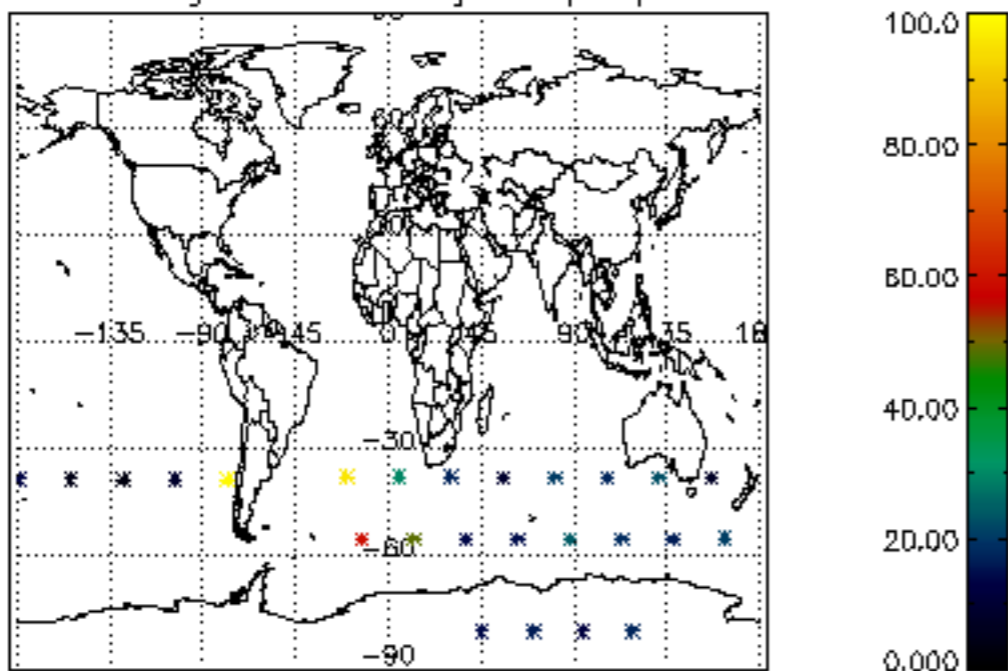
Percentage of flagged data per NO3 profile



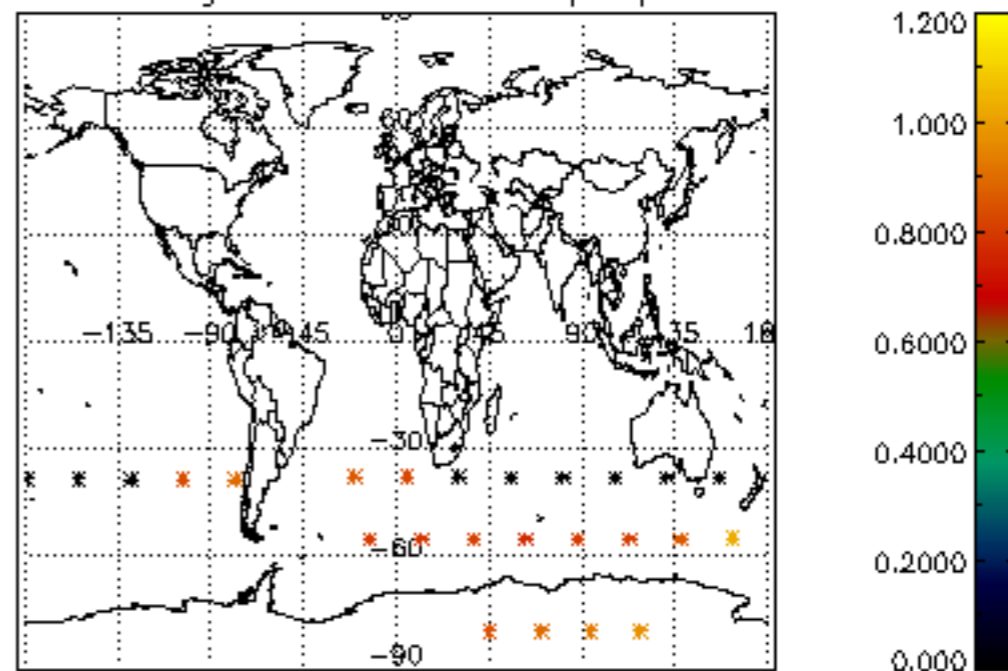




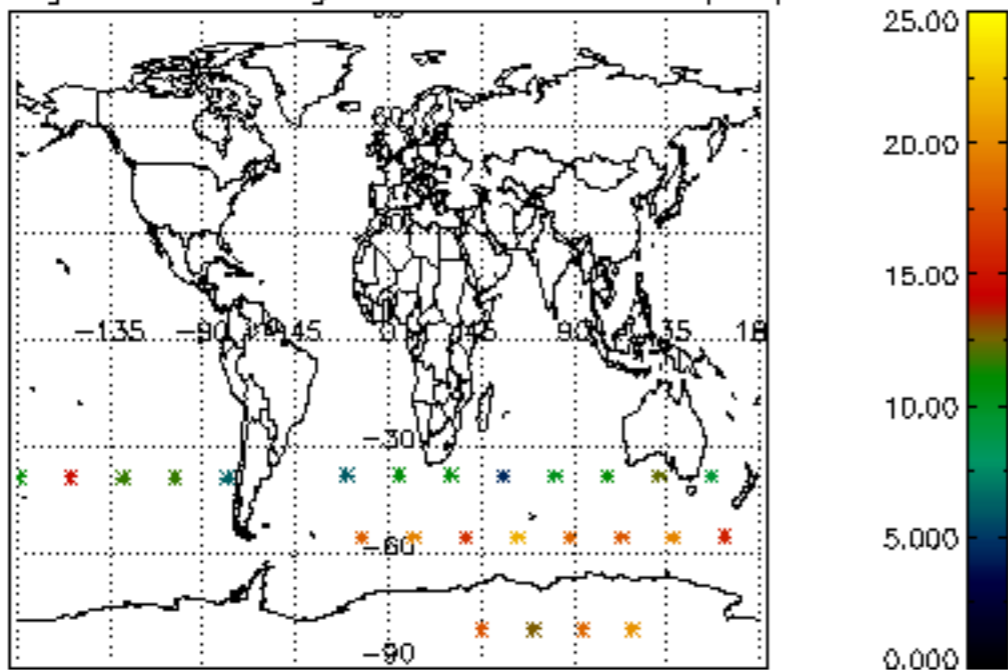
Percentage of cosmic ray hits per profile



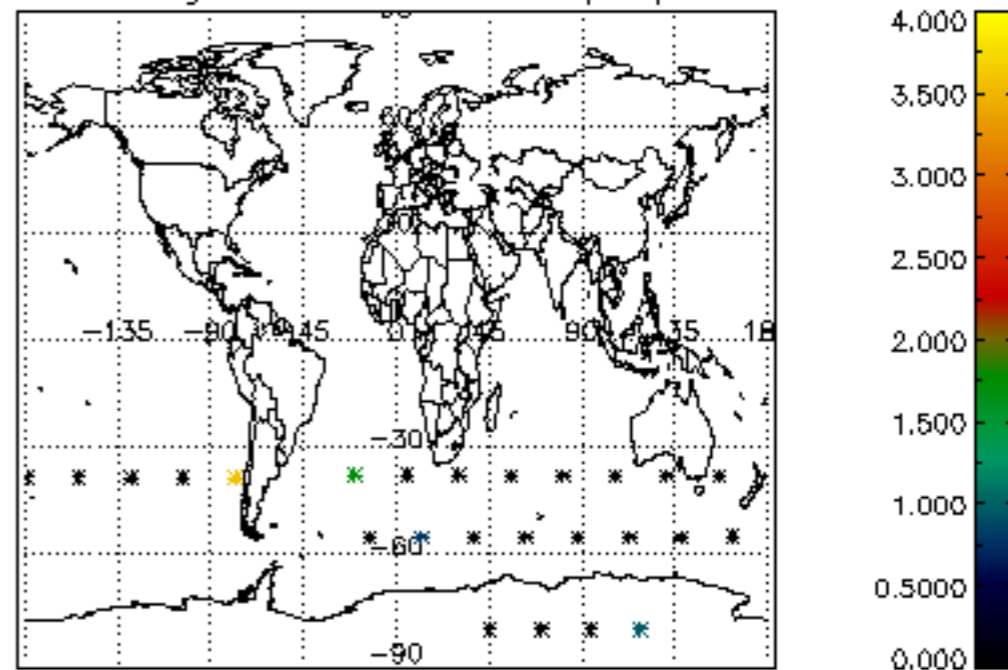
Percentage of datation errors per profile



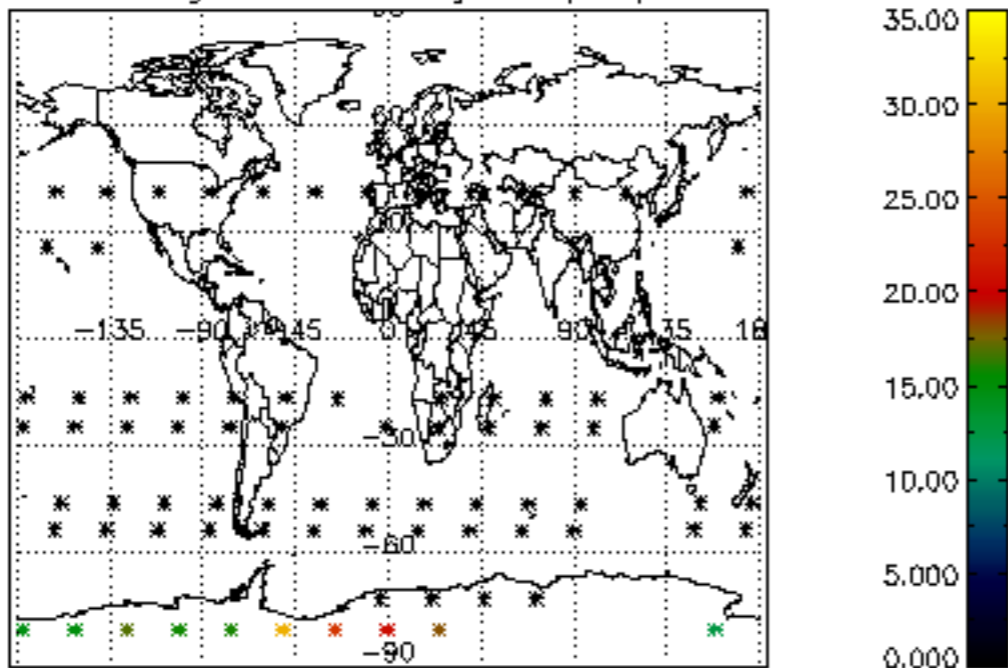
Percentage of star falling outside central band per profile



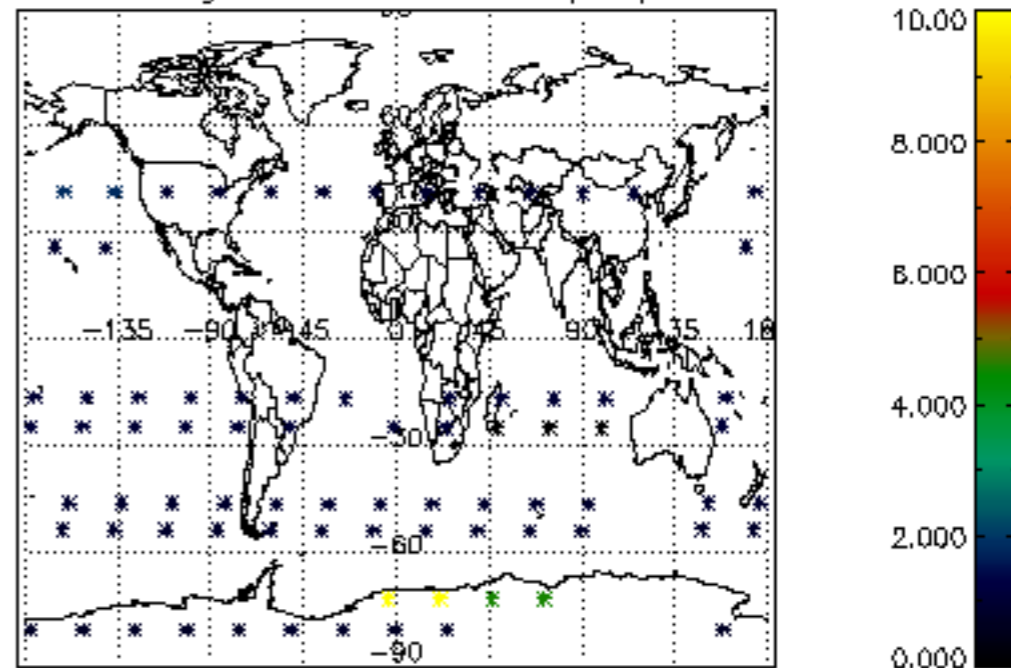
Percentage of saturation errors per profile



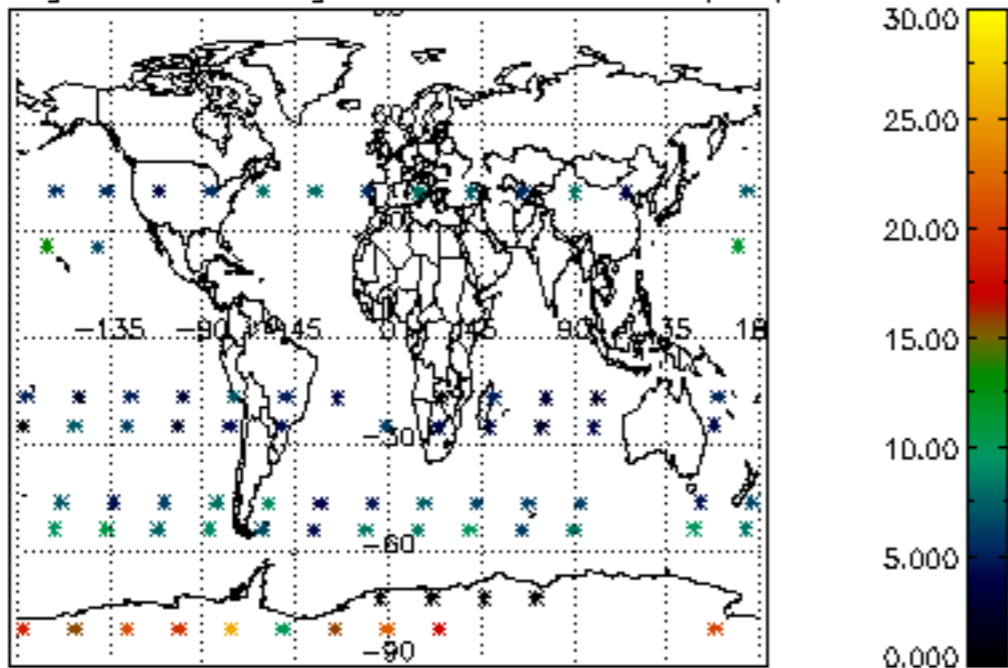
Percentage of cosmic ray hits per profile



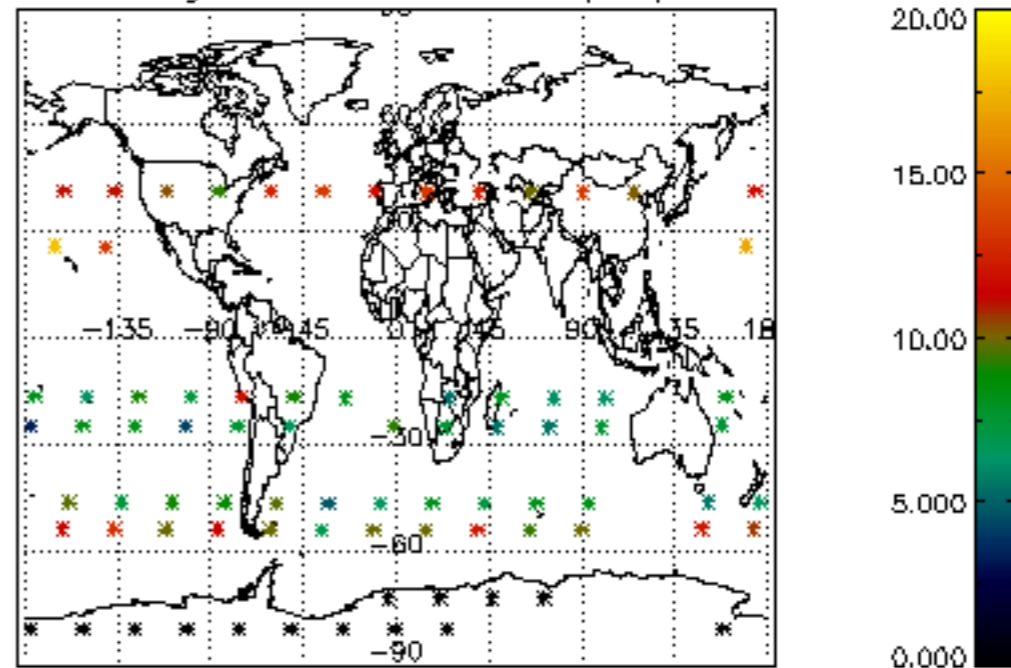
Percentage of datation errors per profile

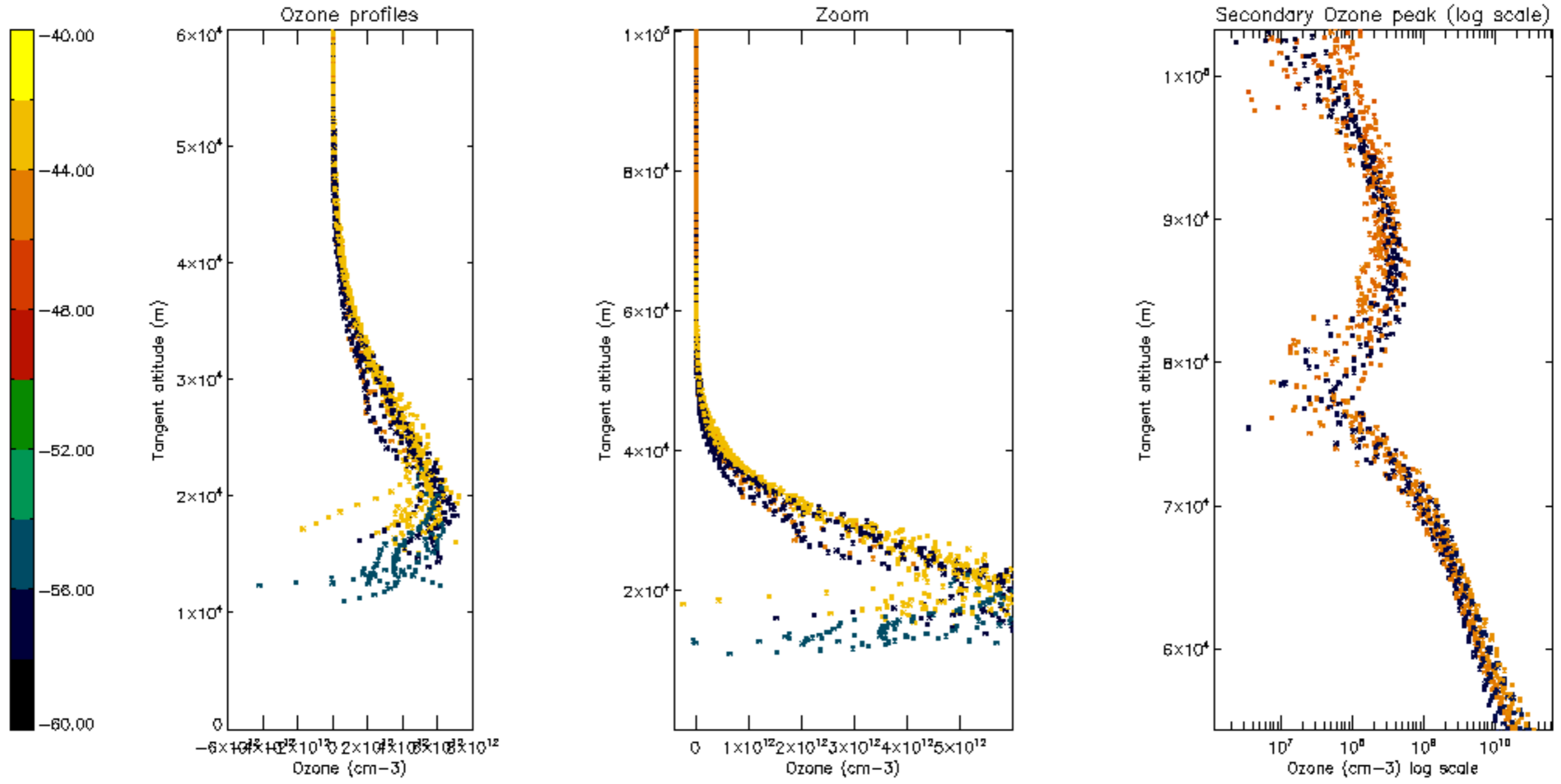


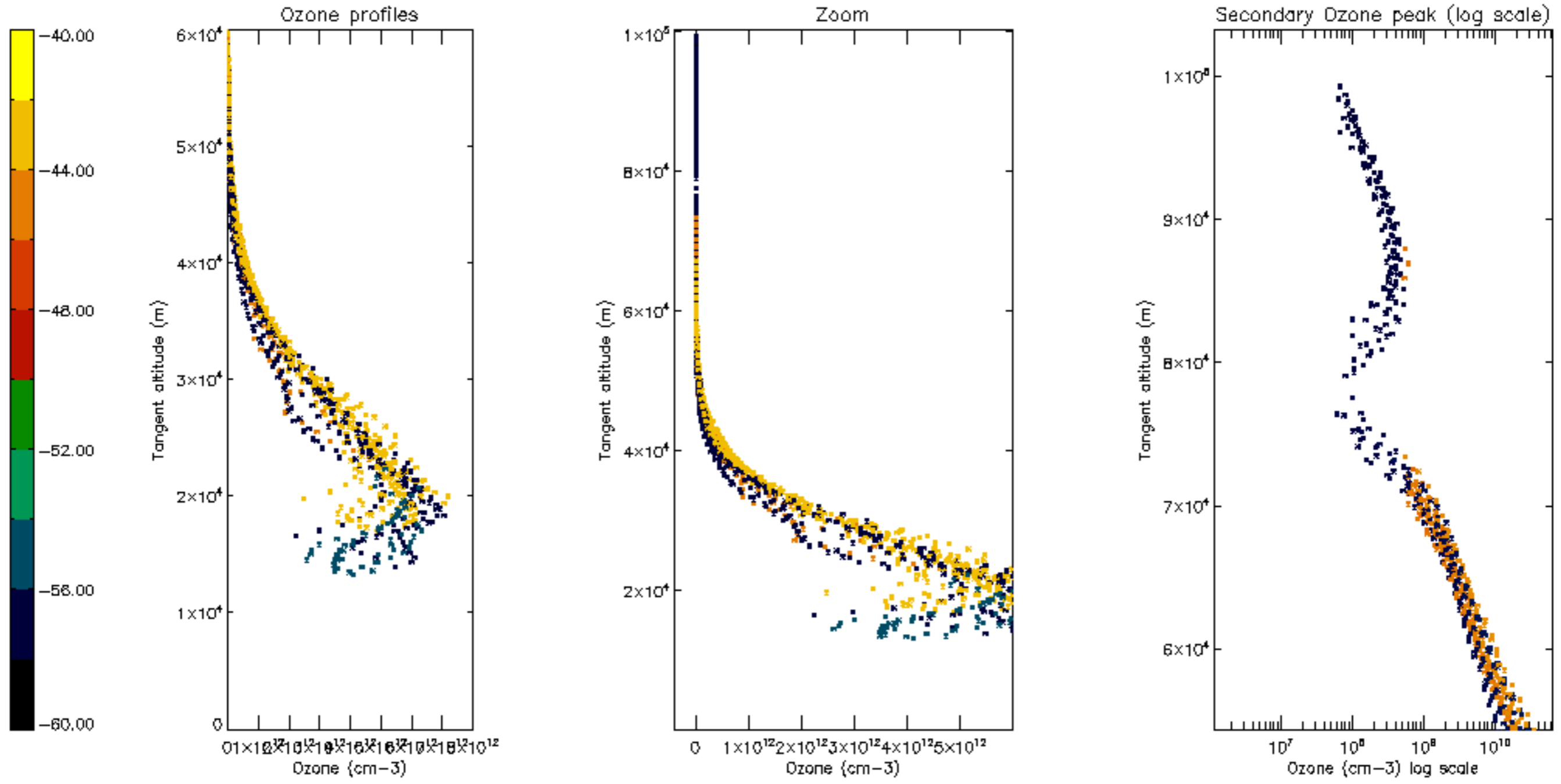
Percentage of star falling outside central band per profile

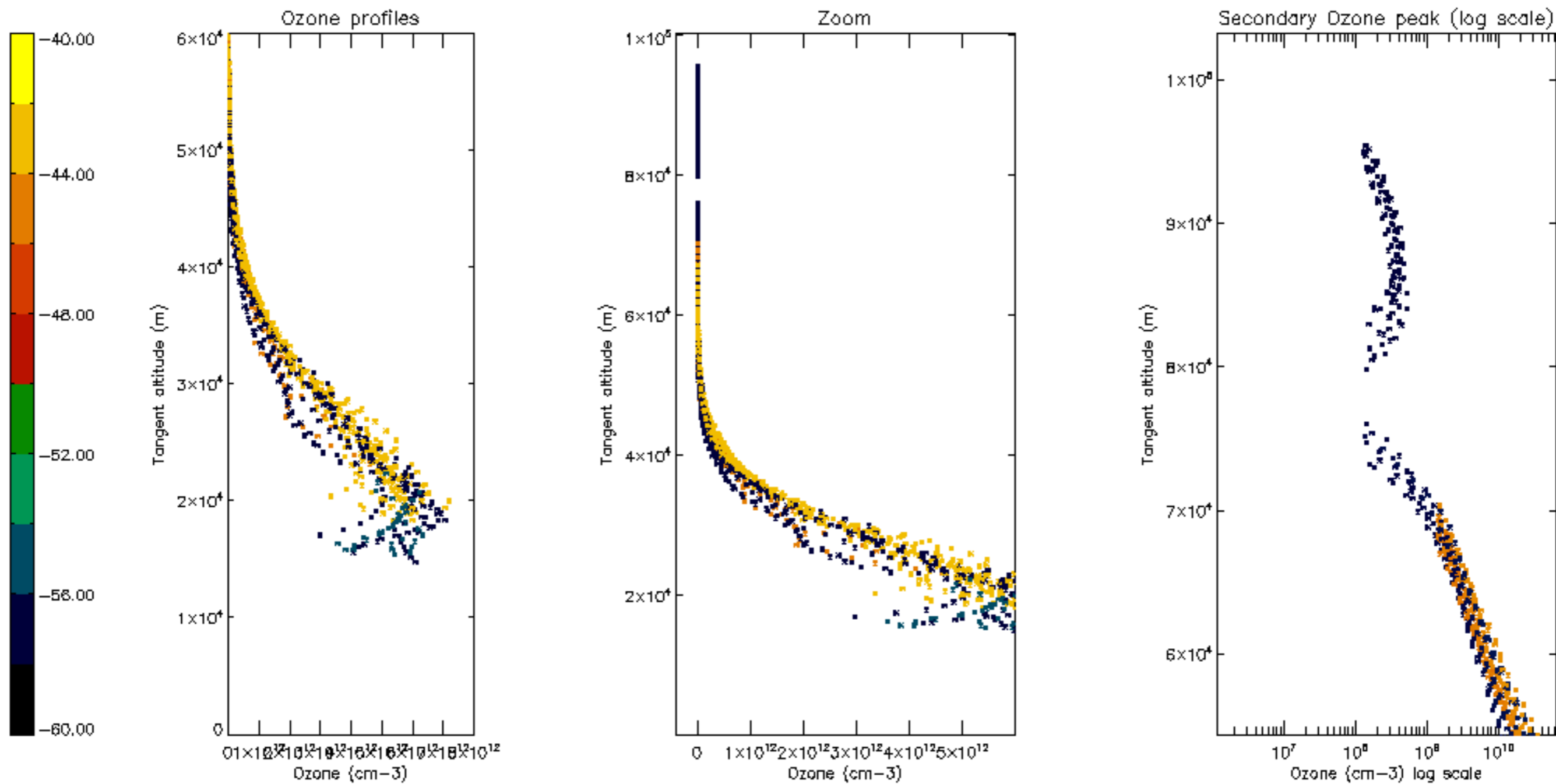


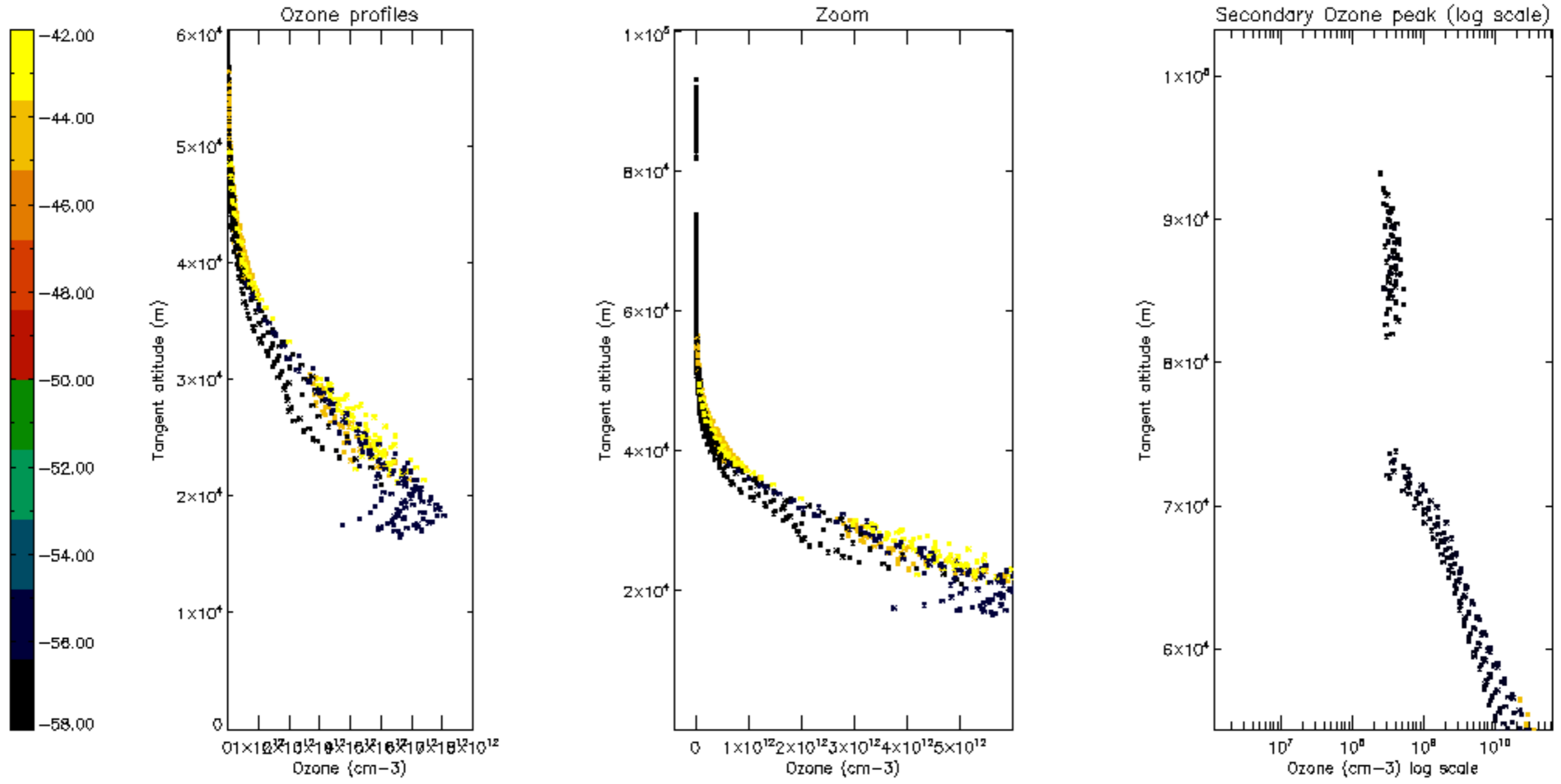
Percentage of saturation errors per profile

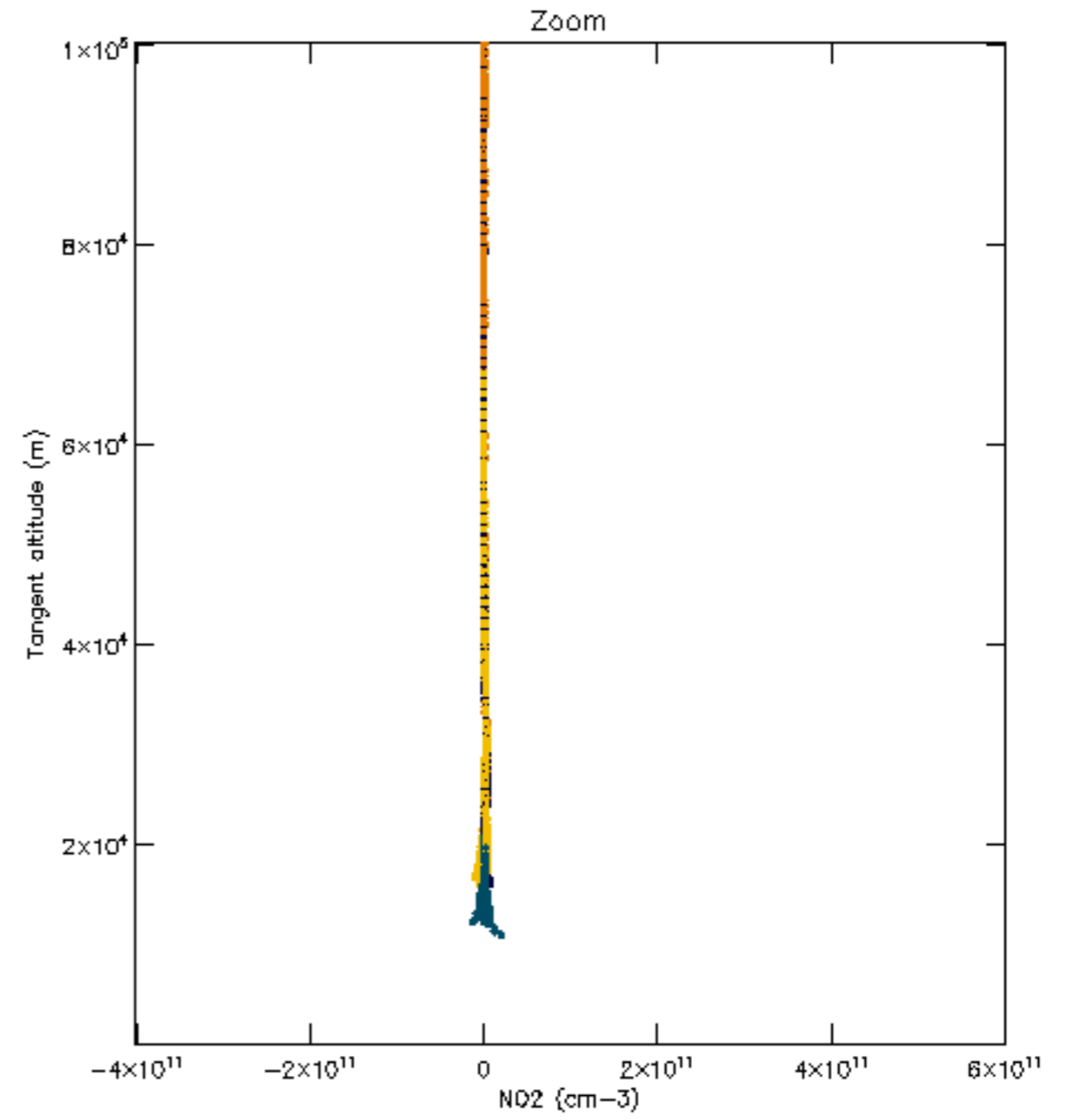
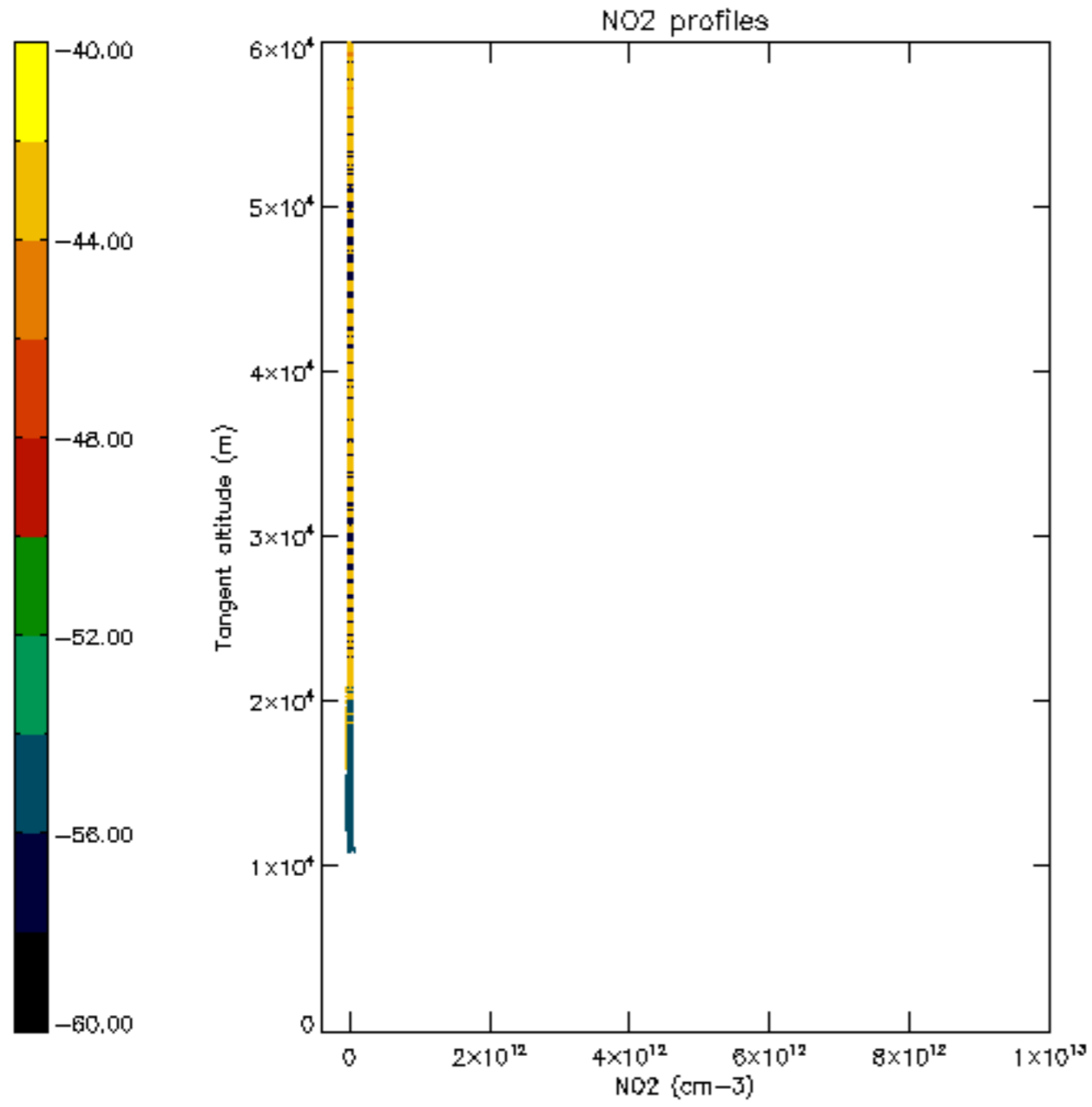


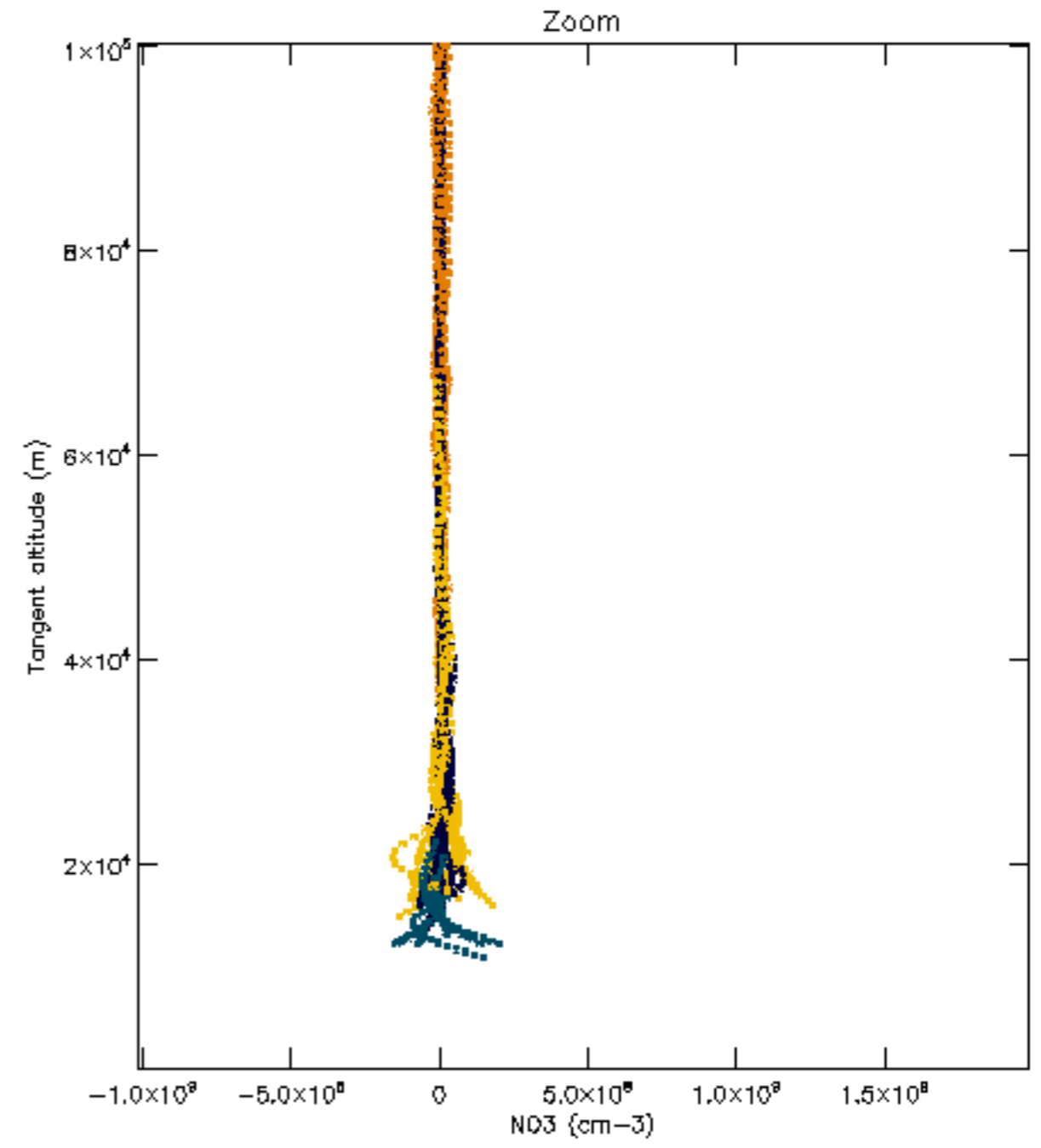
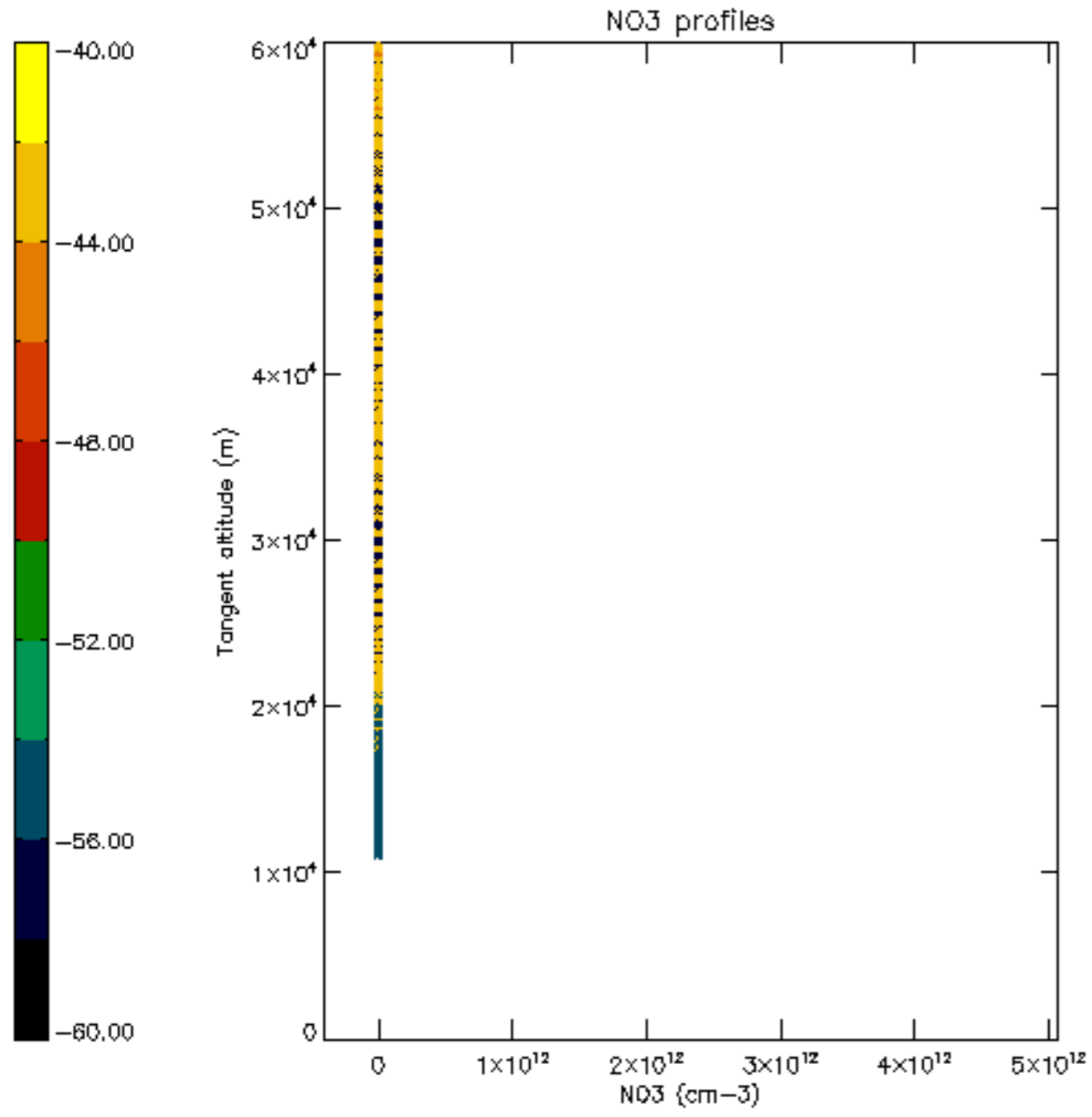


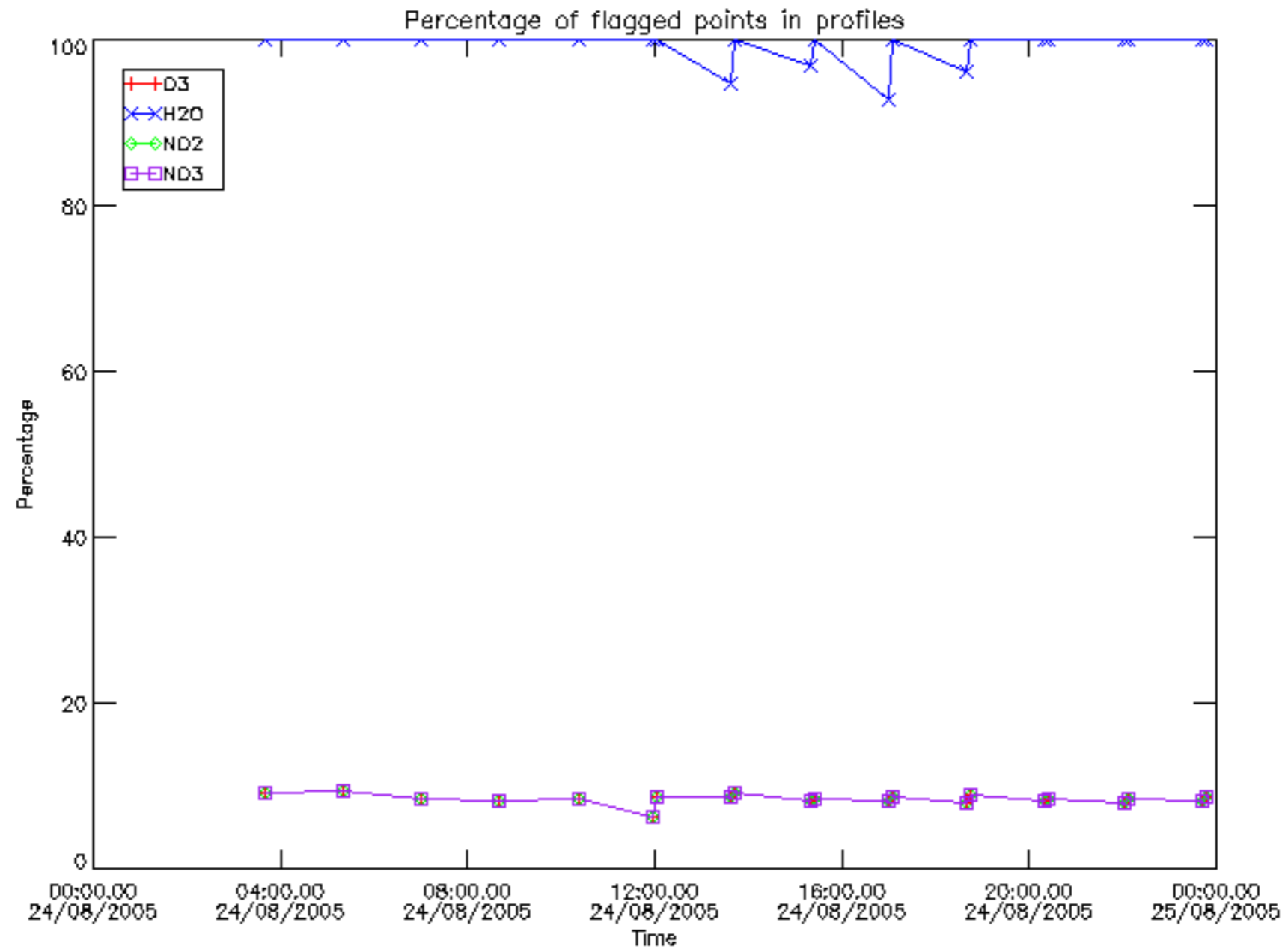




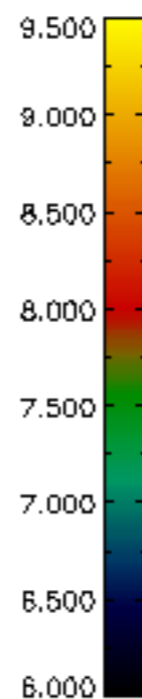
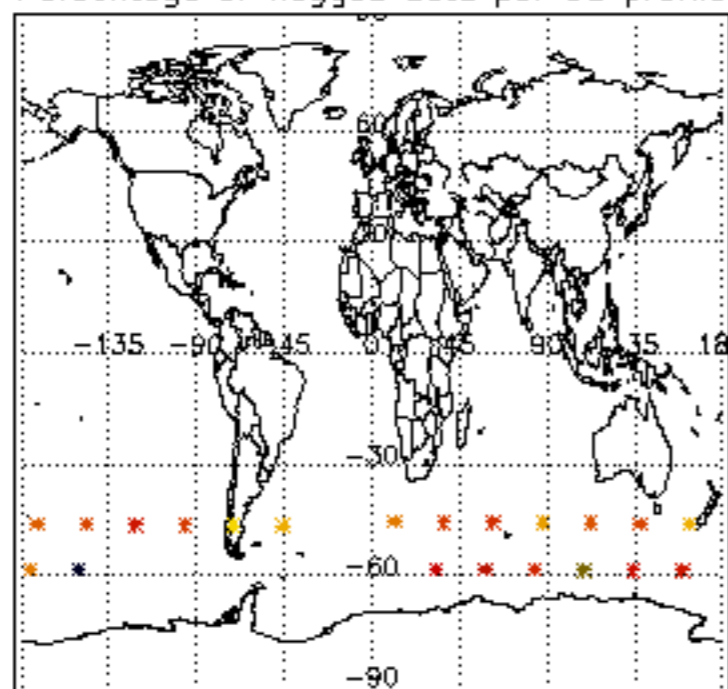




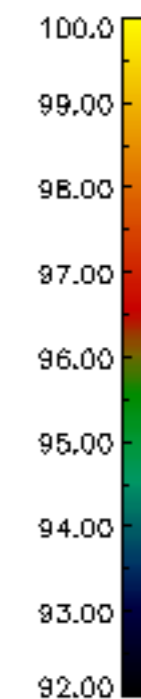
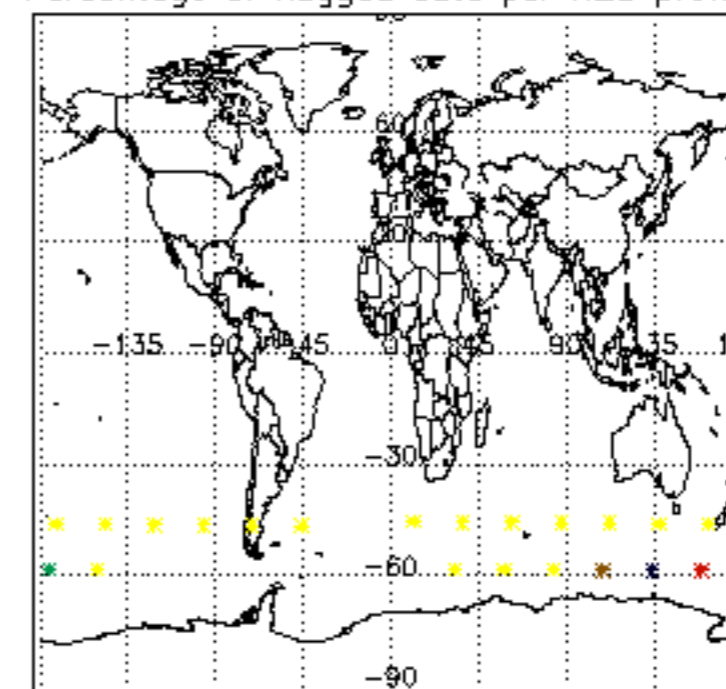




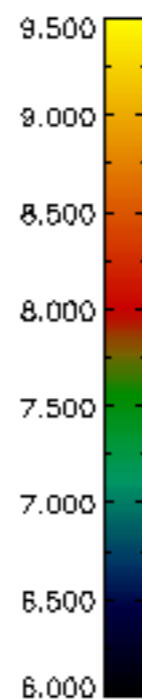
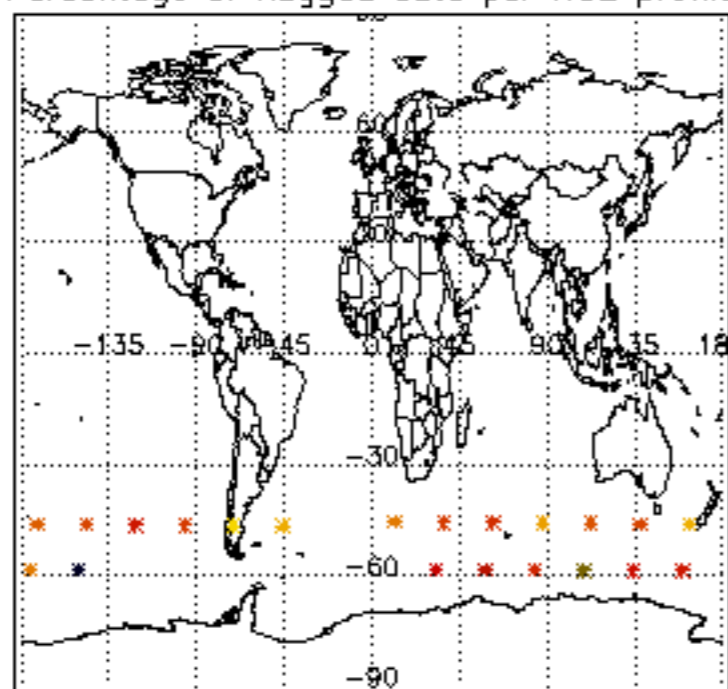
Percentage of flagged data per D3 profile



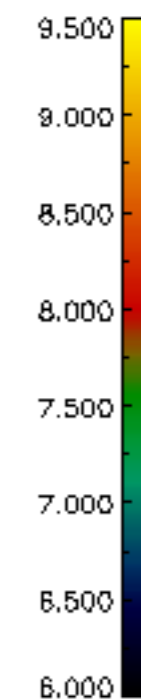
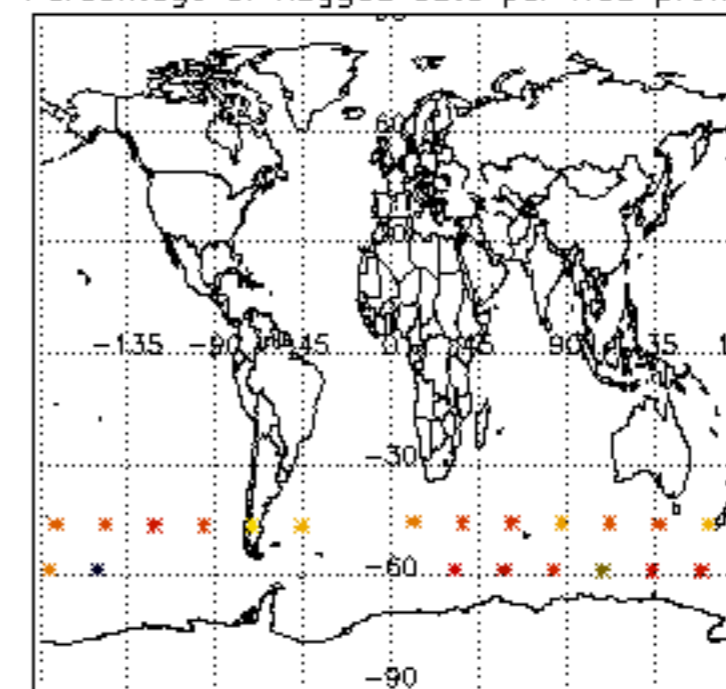
Percentage of flagged data per H2O profile

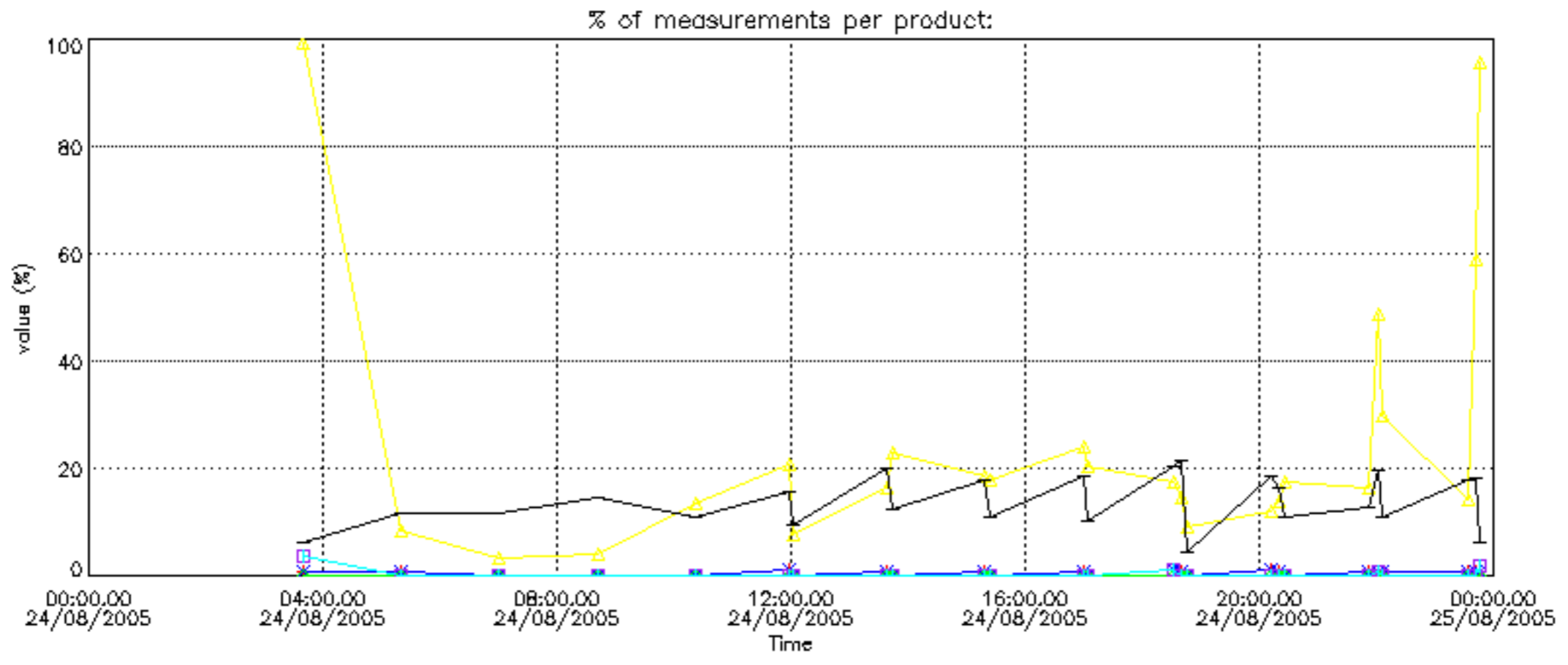


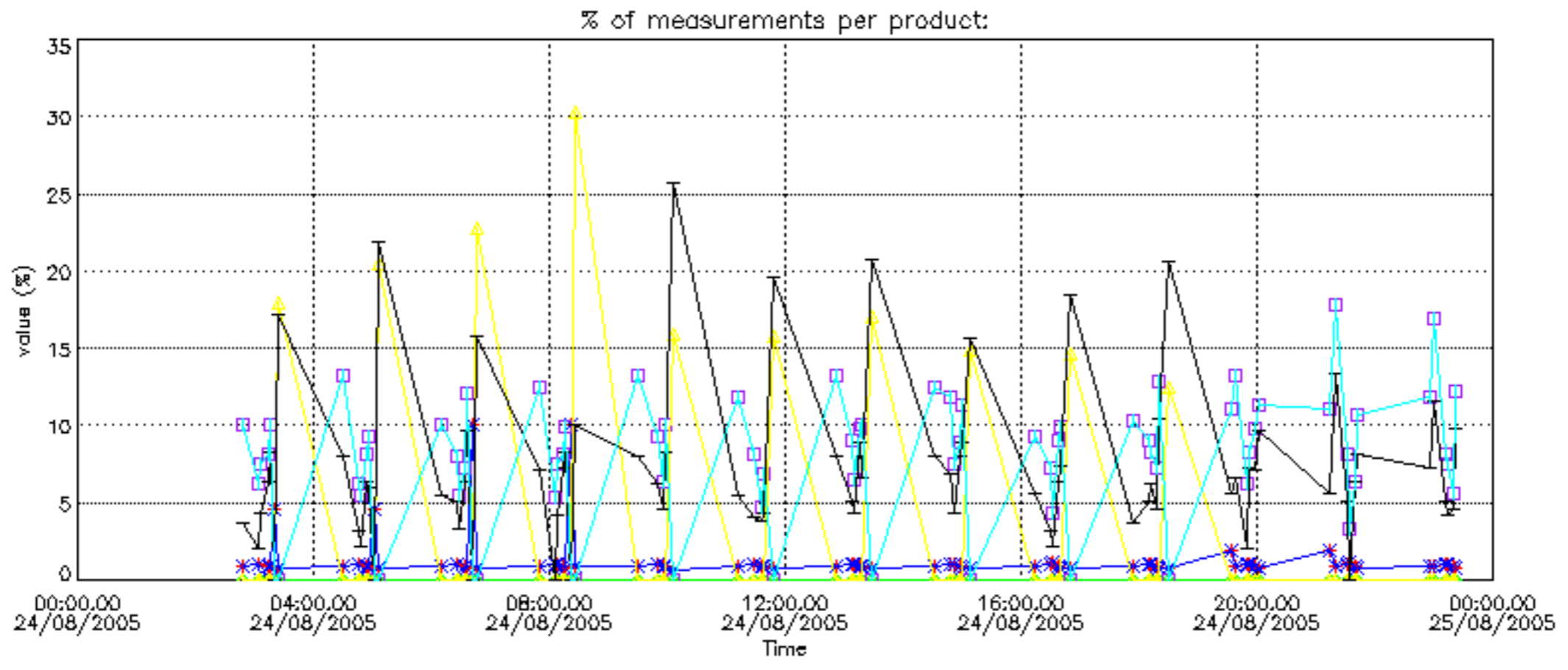
Percentage of flagged data per NO2 profile



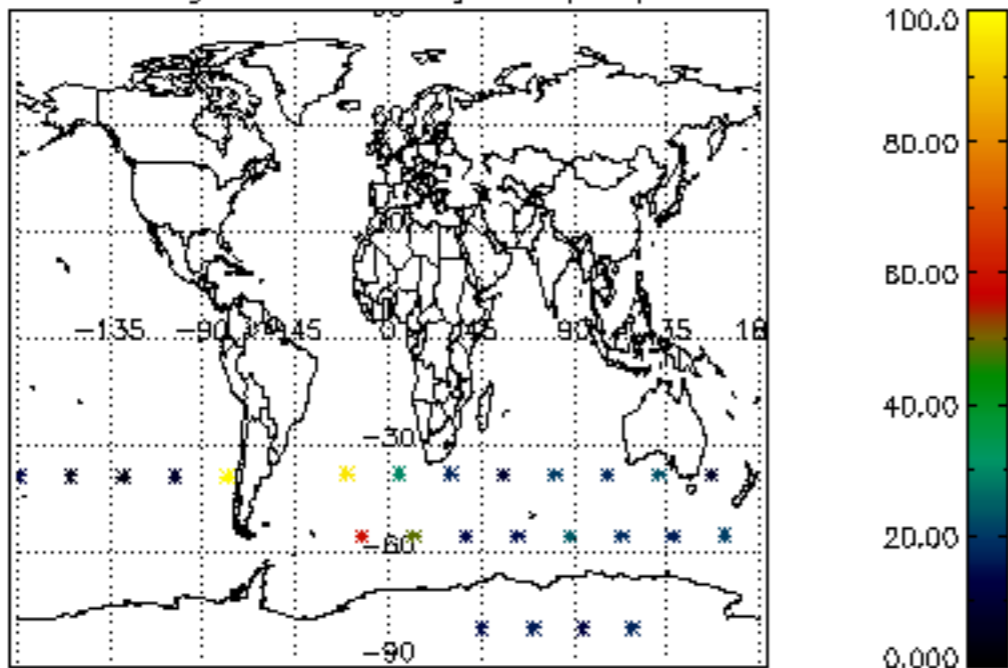
Percentage of flagged data per NO3 profile



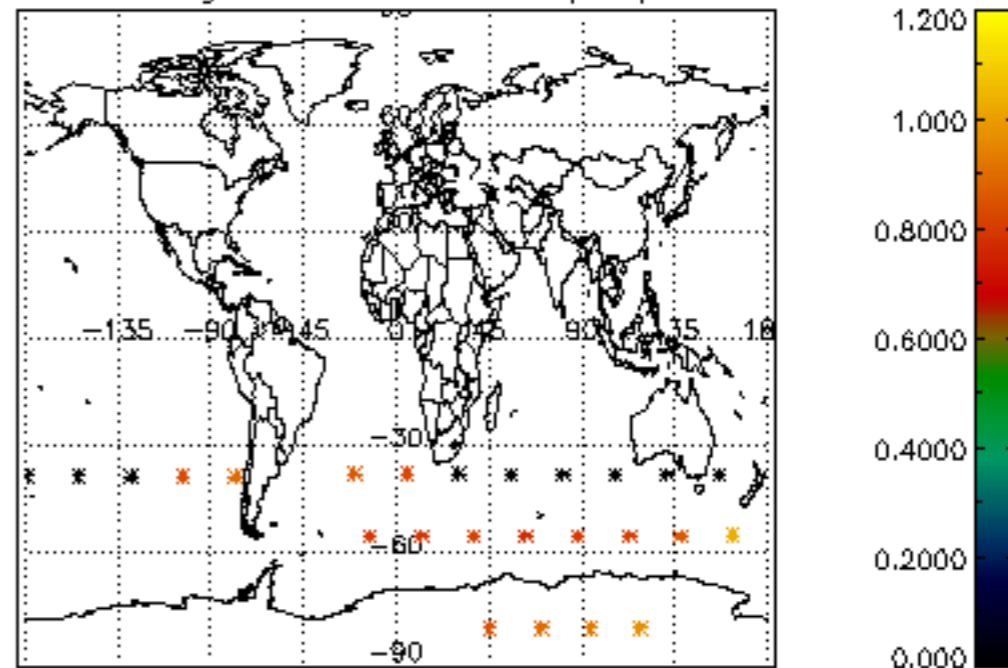




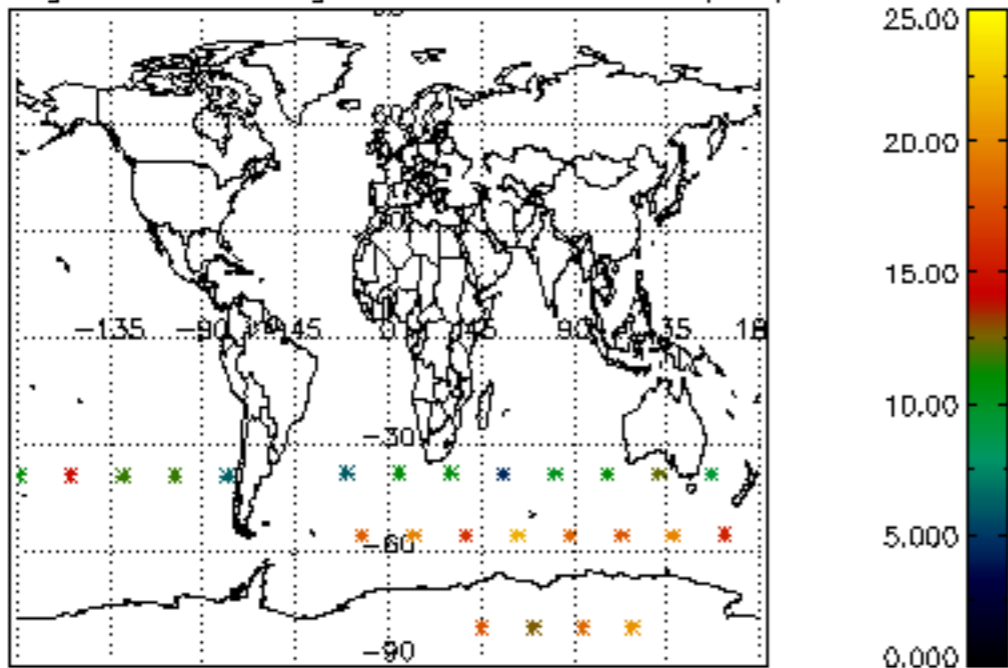
Percentage of cosmic ray hits per profile



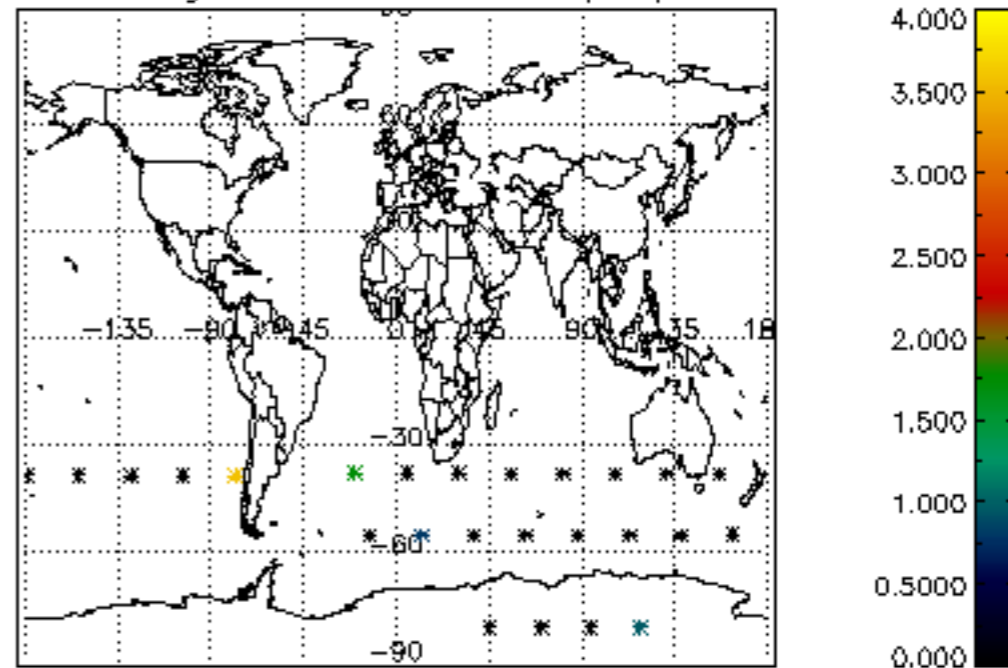
Percentage of datation errors per profile



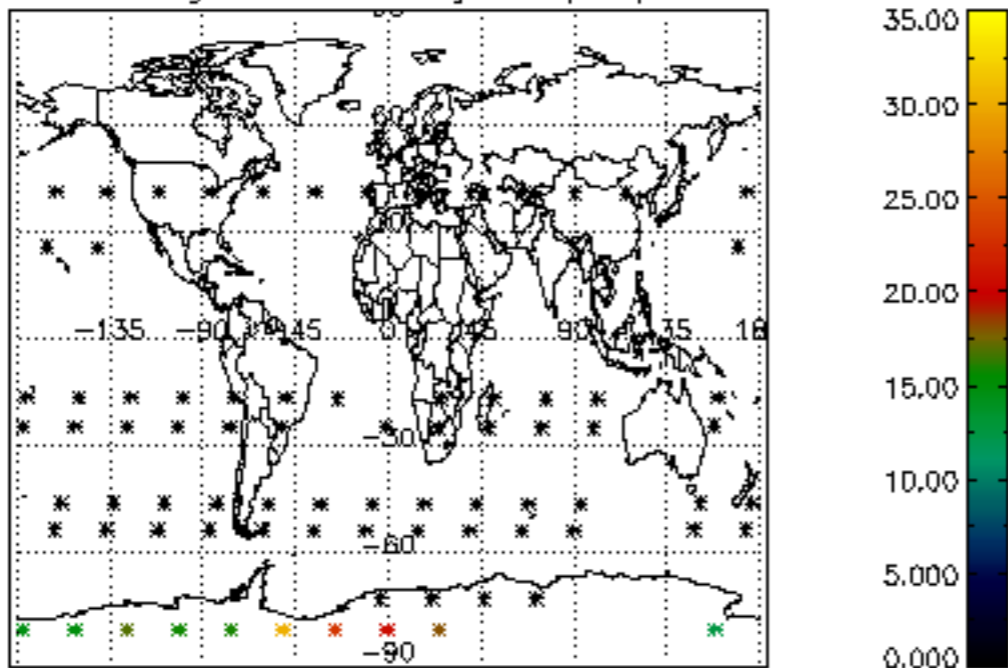
Percentage of star falling outside central band per profile



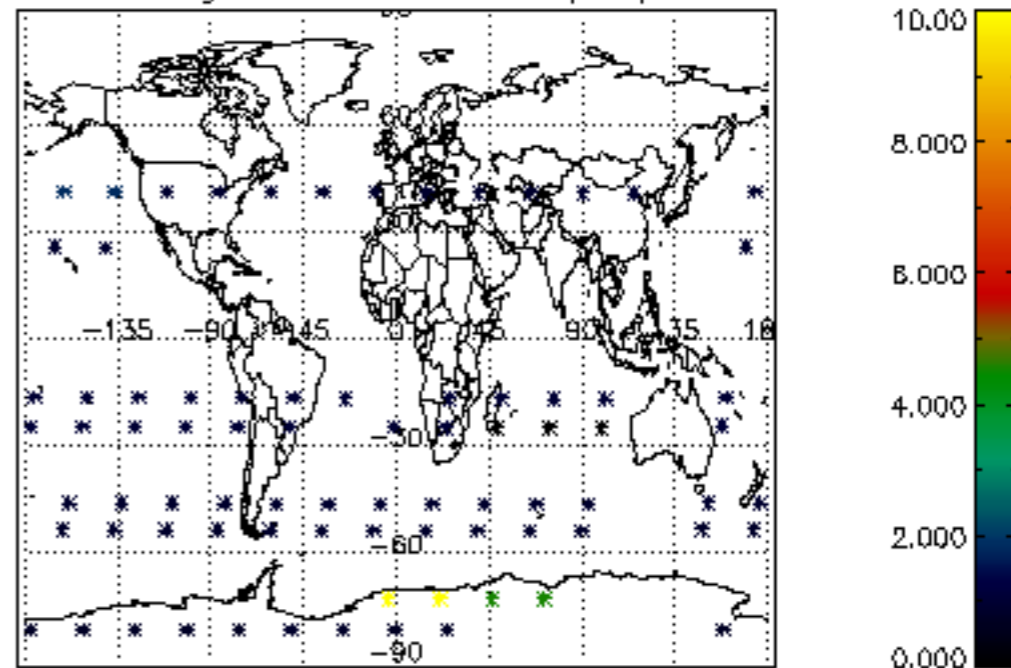
Percentage of saturation errors per profile



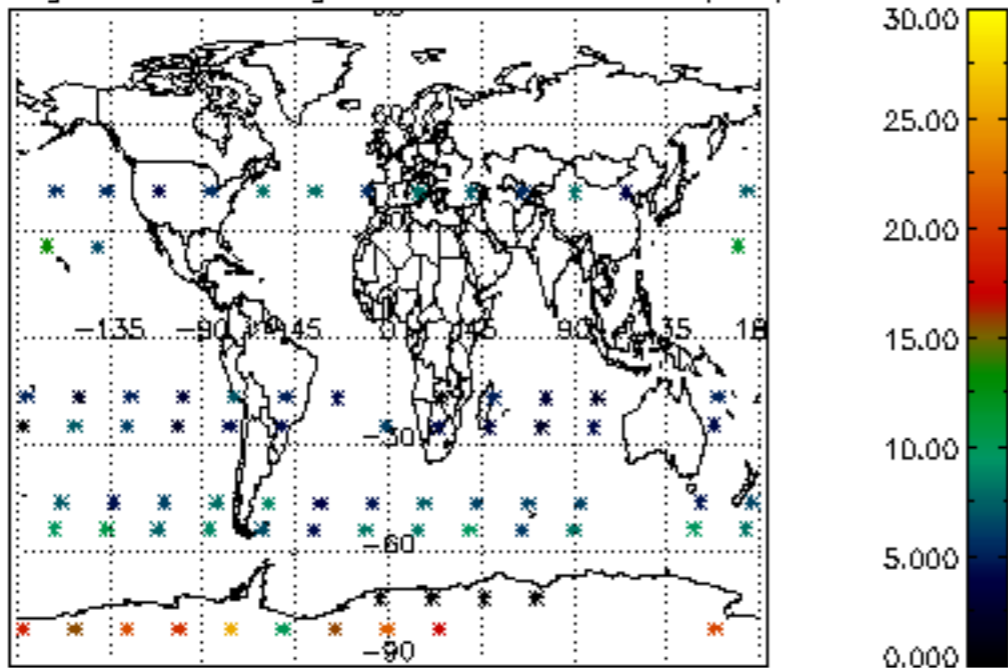
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

