

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	26APR2013 08:57:46
Data source version	GOMOS/6.01
Start time of products	22-04-2009 (22APR2009 00:00:00)
Stop time of products	23-04-2009 (23APR2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	134
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

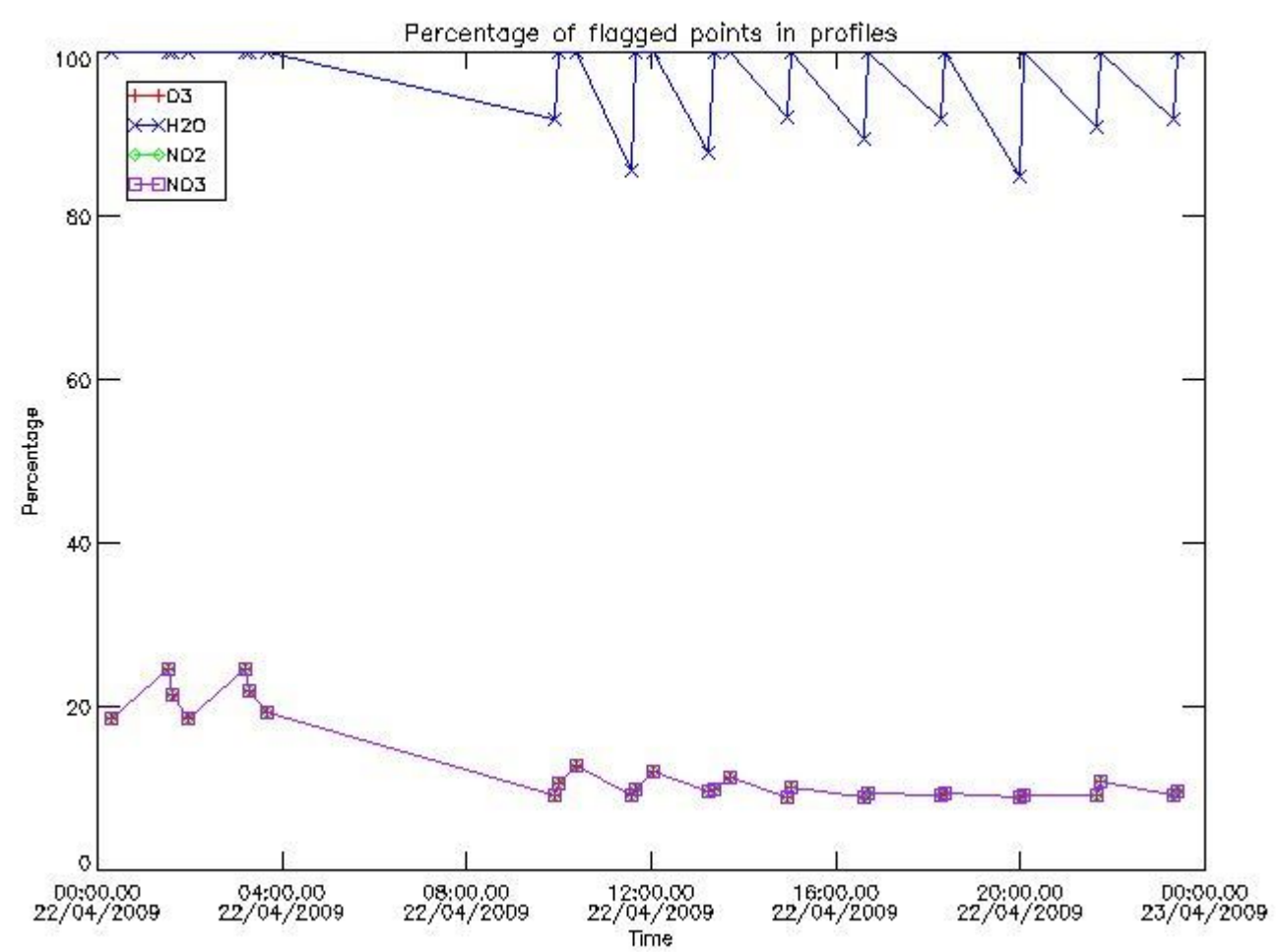
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090422_001825_000000282078_00217_37345_9214.N1	22-APR-2009 00:18:25	Dark	27.500	147	Alp Ara	2.8770	26000.	55	37345	No
2	GOM_NL__2PRFIN20090422_002043_000000352078_00217_37345_9215.N1	22-APR-2009 00:20:43	Straylight	34.500	25	35Lam Sco	1.6200	28000.	69	37345	No
3	GOM_NL__2PRFIN20090422_002421_000000332078_00217_37345_9216.N1	22-APR-2009 00:24:21	Straylight	33.000	75	26Eps Sco	2.2910	4250.0	66	37345	No
4	GOM_NL__2PRFIN20090422_003504_000000272078_00217_37345_9217.N1	22-APR-2009 00:35:04	Twilight	26.500	122	9Alp2Lib	2.7470	9700.0	53	37345	No
5	GOM_NL__2PRFIN20090422_004633_000000262078_00217_37345_9218.N1	22-APR-2009 00:46:33	Twilight	25.500	111	8Eta Boo	2.6800	6000.0	51	37345	No
6	GOM_NL__2PRFIN20090422_005108_000000272078_00217_37345_9219.N1	22-APR-2009 00:51:08	Twilight	27.000	83		2.3780	11000.	54	37345	No
7	GOM_NL__2PRFIN20090422_005356_000000282078_00217_37345_9220.N1	22-APR-2009 00:53:56	Twilight	28.000	180	27Gam Boo	3.0400	8000.0	56	37345	No
8	GOM_NL__2PRFIN20090422_010341_000000262078_00217_37345_9221.N1	22-APR-2009 01:03:41	Twilight	26.000	119	14Eta Dra	2.7270	4700.0	52	37345	No
9	GOM_NL__2PRFIN20090422_011308_000000192078_00217_37345_9222.N1	22-APR-2009 01:13:08	Twilight	19.000	89	5Alp Cep	2.4510	8000.0	38	37345	No
10	GOM_NL__2PRFIN20090422_011824_000000222078_00217_37345_9223.N1	22-APR-2009 01:18:24	Twilight	21.500	19	50Alp Cyg	1.2460	10500.	43	37345	No
11	GOM_NL__2PRFIN20090422_013112_000000212078_00217_37345_9224.N1	22-APR-2009 01:31:12	Dark	20.500	61	8Eps Peg	2.1000	3900.0	41	37345	No
12	GOM_NL__2PRFIN20090422_013640_000000242078_00217_37345_9225.N1	22-APR-2009 01:36:40	Dark	24.000	154	22Bet Aqr	2.8990	5700.0	48	37345	No
13	GOM_NL__2PRFIN20090422_015901_000000282078_00218_37346_9227.N1	22-APR-2009 01:59:01	Dark	27.500	147	Alp Ara	2.8770	26000.	55	37346	No
14	GOM_NL__2PRFIN20090422_020120_000000342078_00218_37346_9228.N1	22-APR-2009 02:01:20	Straylight	34.000	25	35Lam Sco	1.6200	28000.	68	37346	No
15	GOM_NL__2PRFIN20090422_020458_000000332078_00218_37346_9229.N1	22-APR-2009 02:04:58	Straylight	33.000	75	26Eps Sco	2.2910	4250.0	66	37346	No
16	GOM_NL__2PRFIN20090422_021540_000000262078_00218_37346_9230.N1	22-APR-2009 02:15:40	Twilight	26.000	122	9Alp2Lib	2.7470	9700.0	52	37346	No
17	GOM_NL__2PRFIN20090422_022708_000000262078_00218_37346_9231.N1	22-APR-2009 02:27:08	Twilight	25.500	111	8Eta Boo	2.6800	6000.0	51	37346	No
18	GOM_NL__2PRFIN20090422_023143_000000312078_00218_37346_9232.N1	22-APR-2009 02:31:43	Twilight	31.000	83		2.3780	11000.	62	37346	No
19	GOM_NL__2PRFIN20090422_023431_000000282078_00218_37346_9233.N1	22-APR-2009 02:34:31	Twilight	27.500	180	27Gam Boo	3.0400	8000.0	55	37346	No
20	GOM_NL__2PRFIN20090422_024416_000000262078_00218_37346_9234.N1	22-APR-2009 02:44:16	Twilight	25.500	119	14Eta Dra	2.7270	4700.0	51	37346	No
21	GOM_NL__2PRFIN20090422_025344_000000192078_00218_37346_9235.N1	22-APR-2009 02:53:44	Twilight	18.500	89	5Alp Cep	2.4510	8000.0	37	37346	No
22	GOM_NL__2PRFIN20090422_025900_000000222078_00218_37346_9236.N1	22-APR-2009 02:59:00	Twilight	21.500	19	50Alp Cyg	1.2460	10500.	43	37346	No
23	GOM_NL__2PRFIN20090422_031148_000000212078_00218_37346_9237.N1	22-APR-2009 03:11:48	Dark	21.000	61	8Eps Peg	2.1000	3900.0	42	37346	No
24	GOM_NL__2PRFIN20090422_031716_000000242078_00218_37346_9238.N1	22-APR-2009 03:17:16	Dark	23.500	154	22Bet Aqr	2.8990	5700.0	47	37346	No
25	GOM_NL__2PRFIN20090422_033938_000000272078_00219_37347_9240.N1	22-APR-2009 03:39:38	Dark	26.500	147	Alp Ara	2.8770	26000.	53	37347	No
26	GOM_NL__2PRFIN20090422_034157_000000342078_00219_37347_9241.N1	22-APR-2009 03:41:57	Straylight	34.000	25	35Lam Sco	1.6200	28000.	68	37347	No
27	GOM_NL__2PRFIN20090422_034536_000000322078_00219_37347_9242.N1	22-APR-2009 03:45:36	Straylight	31.500	75	26Eps Sco	2.2910	4250.0	63	37347	No
28	GOM_NL__2PRFIN20090422_035616_000000262078_00219_37347_9243.N1	22-APR-2009 03:56:16	Twilight	25.500	122	9Alp2Lib	2.7470	9700.0	51	37347	No
29	GOM_NL__2PRFIN20090422_041506_000000322078_00219_37347_9244.N1	22-APR-2009 04:15:06	Twilight	32.000	180	27Gam Boo	3.0400	8000.0	64	37347	No
30	GOM_NL__2PRFIN20090422_042451_000000312078_00219_37347_9245.N1	22-APR-2009 04:24:51	Twilight	30.500	119	14Eta Dra	2.7270	4700.0	61	37347	No
31	GOM_NL__2PRFIN20090422_085805_000000442078_00222_37350_9337.N1	22-APR-2009 08:58:05	Bright	43.500	122	9Alp2Lib	2.7470	9700.0	87	37350	No
32	GOM_NL__2PRFIN20090422_092637_000000472078_00222_37350_9338.N1	22-APR-2009 09:26:37	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	37350	No
33	GOM_NL__2PRFIN20090422_093607_000000402078_00222_37350_9339.N1	22-APR-2009 09:36:07	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	37350	No
34	GOM_NL__2PRFIN20090422_094123_000000562078_00222_37350_9340.N1	22-APR-2009 09:41:23	Bright	55.500	19	50Alp Cyg	1.2460	10500.	111	37350	No
35	GOM_NL__2PRFIN20090422_095415_000000562078_00222_37350_9341.N1	22-APR-2009 09:54:15	Dark	55.500	61	8Eps Peg	2.1000	3900.0	111	37350	No
36	GOM_NL__2PRFIN20090422_095944_000000532078_00222_37350_9342.N1	22-APR-2009 09:59:44	Dark	52.500	154	22Bet Aqr	2.8990	5700.0	105	37350	No
37	GOM_NL__2PRFIN20090422_102205_000000442078_00223_37351_9377.N1	22-APR-2009 10:22:05	Dark	43.500	147	Alp Ara	2.8770	26000.	87	37351	No
38	GOM_NL__2PRFIN20090422_102426_000000642078_00223_37351_9378.N1	22-APR-2009 10:24:26	Straylight	63.500	25	35Lam Sco	1.6200	28000.	127	37351	No
39	GOM_NL__2PRFIN20090422_102803_000000642078_00223_37351_9379.N1	22-APR-2009 10:28:03	Straylight	64.000	75	26Eps Sco	2.2910	4250.0	128	37351	No
40	GOM_NL__2PRFIN20090422_103840_000000522078_00223_37351_9380.N1	22-APR-2009 10:38:40	Bright	52.000	122	9Alp2Lib	2.7470	9700.0	104	37351	No
41	GOM_NL__2PRFIN20090422_105006_000000412078_00223_37351_9381.N1	22-APR-2009 10:50:06	Bright	41.000	111	8Eta Boo	2.6800	6000.0	82	37351	No
42	GOM_NL__2PRFIN20090422_105439_000000462078_00223_37351_9382.N1	22-APR-2009 10:54:39	Bright	46.000	83		2.3780	11000.	92	37351	No

102	GOM_NL__2PRFIN20090422_191735_000000482078_00228_37356_9461.N1	22-APR-2009 19:17:35	Bright	48.000	83		2.3780	11000.	96	37356	No
103	GOM_NL__2PRFIN20090422_192024_000000462078_00228_37356_9462.N1	22-APR-2009 19:20:24	Bright	46.000	180	27Gam Boo	3.0400	8000.0	92	37356	No
104	GOM_NL__2PRFIN20090422_193009_000000462078_00228_37356_9463.N1	22-APR-2009 19:30:09	Bright	46.000	119	14Eta Dra	2.7270	4700.0	92	37356	No
105	GOM_NL__2PRFIN20090422_193941_000000382078_00228_37356_9464.N1	22-APR-2009 19:39:41	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	37356	No
106	GOM_NL__2PRFIN20090422_194457_000000552078_00228_37356_9465.N1	22-APR-2009 19:44:57	Bright	55.000	19	50Alp Cyg	1.2460	10500.	110	37356	No
107	GOM_NL__2PRFIN20090422_195754_000000572078_00228_37356_9466.N1	22-APR-2009 19:57:54	Dark	56.500	61	8Eps Peg	2.1000	3900.0	113	37356	No
108	GOM_NL__2PRFIN20090422_200324_000000552078_00228_37356_9467.N1	22-APR-2009 20:03:24	Dark	55.000	154	22Bet Aqr	2.8990	5700.0	110	37356	No
109	GOM_NL__2PRFIN20090422_202546_000000452078_00229_37357_9494.N1	22-APR-2009 20:25:46	Straylight	44.500	147	Alp Ara	2.8770	26000.	89	37357	No
110	GOM_NL__2PRFIN20090422_202808_000000592078_00229_37357_9495.N1	22-APR-2009 20:28:08	Straylight	59.000	25	35Lam Sco	1.6200	28000.	118	37357	No
111	GOM_NL__2PRFIN20090422_203144_000000642078_00229_37357_9496.N1	22-APR-2009 20:31:44	Straylight	64.000	75	26Eps Sco	2.2910	4250.0	128	37357	No
112	GOM_NL__2PRFIN20090422_204217_000000492078_00229_37357_9497.N1	22-APR-2009 20:42:17	Bright	49.000	122	9Alp2Lib	2.7470	9700.0	98	37357	No
113	GOM_NL__2PRFIN20090422_205340_000000412078_00229_37357_9498.N1	22-APR-2009 20:53:40	Bright	40.500	111	8Eta Boo	2.6800	6000.0	81	37357	No
114	GOM_NL__2PRFIN20090422_205810_000000522078_00229_37357_9499.N1	22-APR-2009 20:58:10	Bright	51.500	83		2.3780	11000.	103	37357	No
115	GOM_NL__2PRFIN20090422_210059_000000472078_00229_37357_9500.N1	22-APR-2009 21:00:59	Bright	46.500	180	27Gam Boo	3.0400	8000.0	93	37357	No
116	GOM_NL__2PRFIN20090422_211044_000000462078_00229_37357_9501.N1	22-APR-2009 21:10:44	Bright	46.000	119	14Eta Dra	2.7270	4700.0	92	37357	No
117	GOM_NL__2PRFIN20090422_212017_000000592078_00229_37357_9502.N1	22-APR-2009 21:20:17	Bright	59.000	89	5Alp Cep	2.4510	8000.0	118	37357	No
118	GOM_NL__2PRFIN20090422_212533_000000562078_00229_37357_9503.N1	22-APR-2009 21:25:33	Bright	56.000	19	50Alp Cyg	1.2460	10500.	112	37357	No
119	GOM_NL__2PRFIN20090422_213830_000000552078_00229_37357_9504.N1	22-APR-2009 21:38:30	Dark	54.500	61	8Eps Peg	2.1000	3900.0	109	37357	No
120	GOM_NL__2PRFIN20090422_214401_000000522078_00229_37357_9505.N1	22-APR-2009 21:44:01	Dark	51.500	154	22Bet Aqr	2.8990	5700.0	103	37357	No
121	GOM_NL__2PRFIN20090422_220713_000000562078_00230_37358_9513.N1	22-APR-2009 22:07:13	Straylight	55.500	40	The Sco	1.8590	7100.0	111	37358	No
122	GOM_NL__2PRFIN20090422_220845_000000622078_00230_37358_9514.N1	22-APR-2009 22:08:45	Straylight	61.500	25	35Lam Sco	1.6200	28000.	123	37358	No
123	GOM_NL__2PRFIN20090422_221221_000000652078_00230_37358_9515.N1	22-APR-2009 22:12:21	Straylight	65.000	75	26Eps Sco	2.2910	4250.0	130	37358	No
124	GOM_NL__2PRFIN20090422_222253_000000502078_00230_37358_9516.N1	22-APR-2009 22:22:53	Bright	50.000	122	9Alp2Lib	2.7470	9700.0	100	37358	No
125	GOM_NL__2PRFIN20090422_223416_000000422078_00230_37358_9517.N1	22-APR-2009 22:34:16	Bright	42.000	111	8Eta Boo	2.6800	6000.0	84	37358	No
126	GOM_NL__2PRFIN20090422_223845_000000502078_00230_37358_9518.N1	22-APR-2009 22:38:45	Bright	50.000	83		2.3780	11000.	100	37358	No
127	GOM_NL__2PRFIN20090422_224134_000000432078_00230_37358_9519.N1	22-APR-2009 22:41:34	Bright	42.500	180	27Gam Boo	3.0400	8000.0	85	37358	No
128	GOM_NL__2PRFIN20090422_225119_000000432078_00230_37358_9520.N1	22-APR-2009 22:51:19	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	37358	No
129	GOM_NL__2PRFIN20090422_230609_000000662078_00230_37358_9521.N1	22-APR-2009 23:06:09	Bright	66.000	19	50Alp Cyg	1.2460	10500.	132	37358	No
130	GOM_NL__2PRFIN20090422_231907_000000562078_00230_37358_9522.N1	22-APR-2009 23:19:07	Dark	56.000	61	8Eps Peg	2.1000	3900.0	112	37358	No
131	GOM_NL__2PRFIN20090422_232438_000000532078_00230_37358_9523.N1	22-APR-2009 23:24:38	Dark	53.000	154	22Bet Aqr	2.8990	5700.0	106	37358	No
132	GOM_NL__2PRFIN20090422_234750_000000592078_00231_37359_9530.N1	22-APR-2009 23:47:50	Straylight	58.500	40	The Sco	1.8590	7100.0	117	37359	No
133	GOM_NL__2PRFIN20090422_234922_000000662078_00231_37359_9531.N1	22-APR-2009 23:49:22	Straylight	66.000	25	35Lam Sco	1.6200	28000.	132	37359	No
134	GOM_NL__2PRFIN20090422_235257_000000632078_00231_37359_9532.N1	22-APR-2009 23:52:57	Straylight	62.500	75	26Eps Sco	2.2910	4250.0	125	37359	No

3. Quality information per product

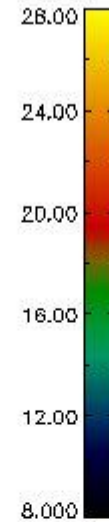
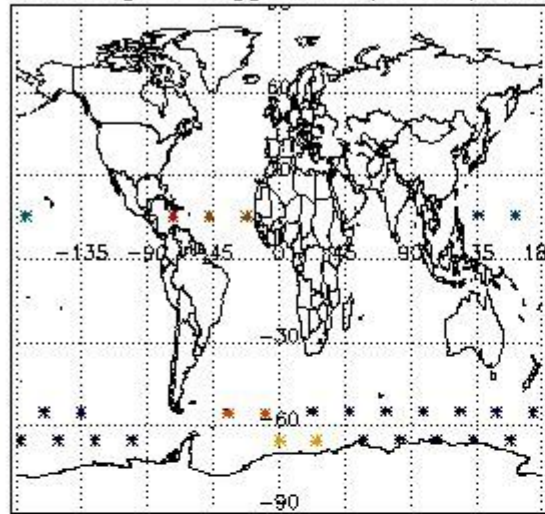
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

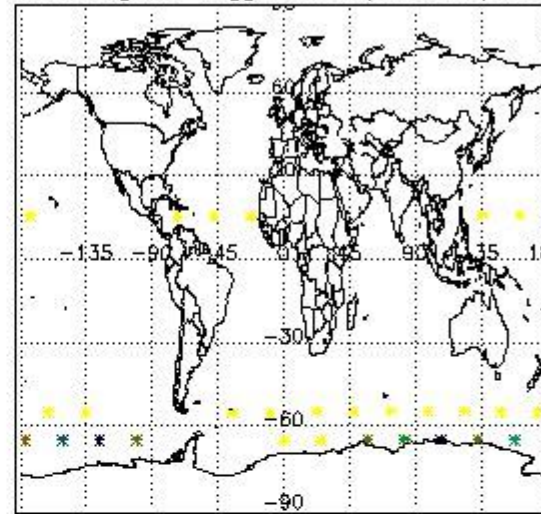


3.2 Plot quality information per product (world map)

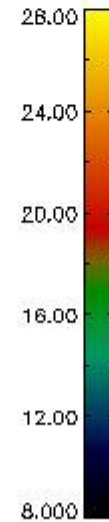
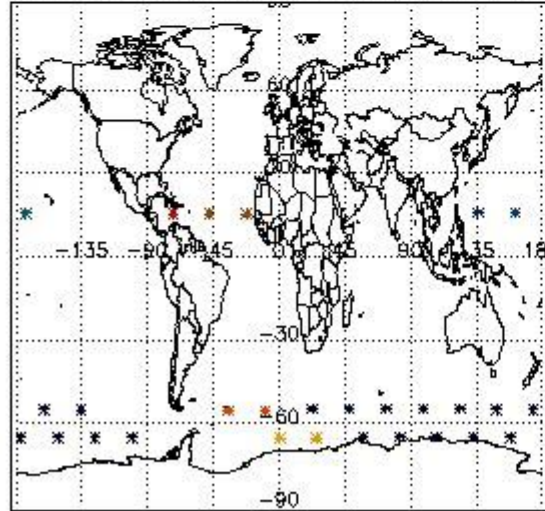
Percentage of flagged data per O3 profile



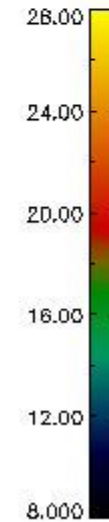
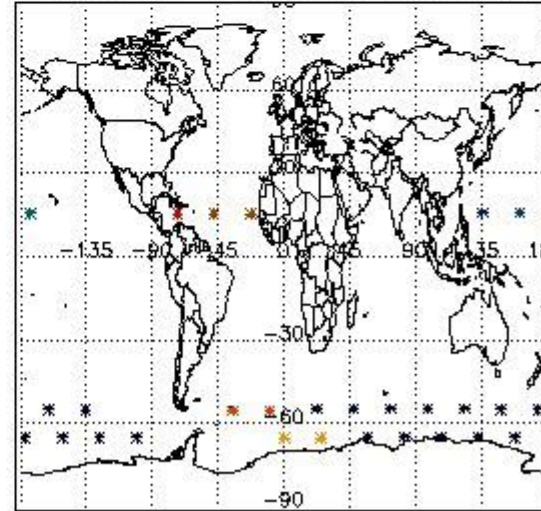
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

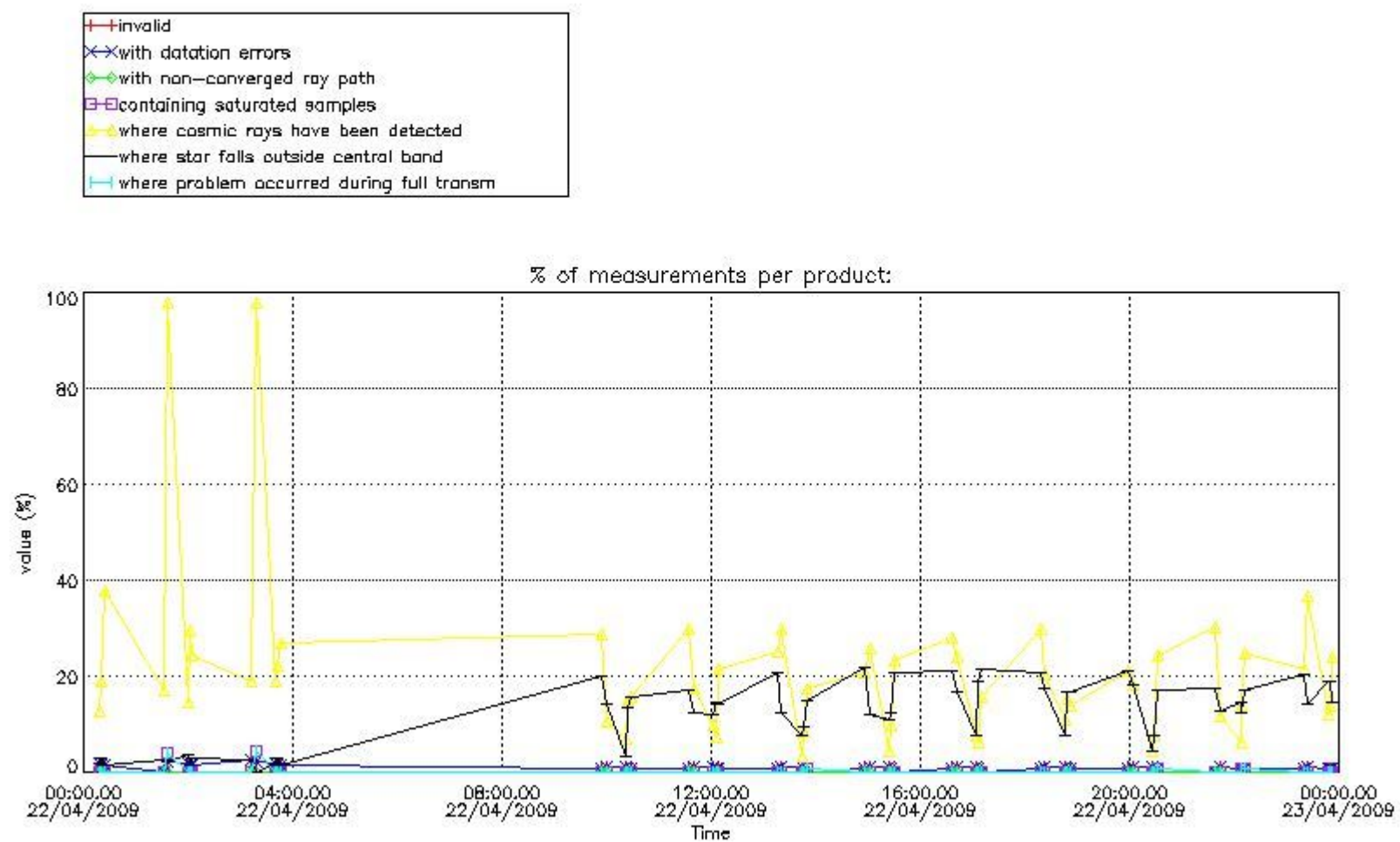


4. Level 1 quality information per product

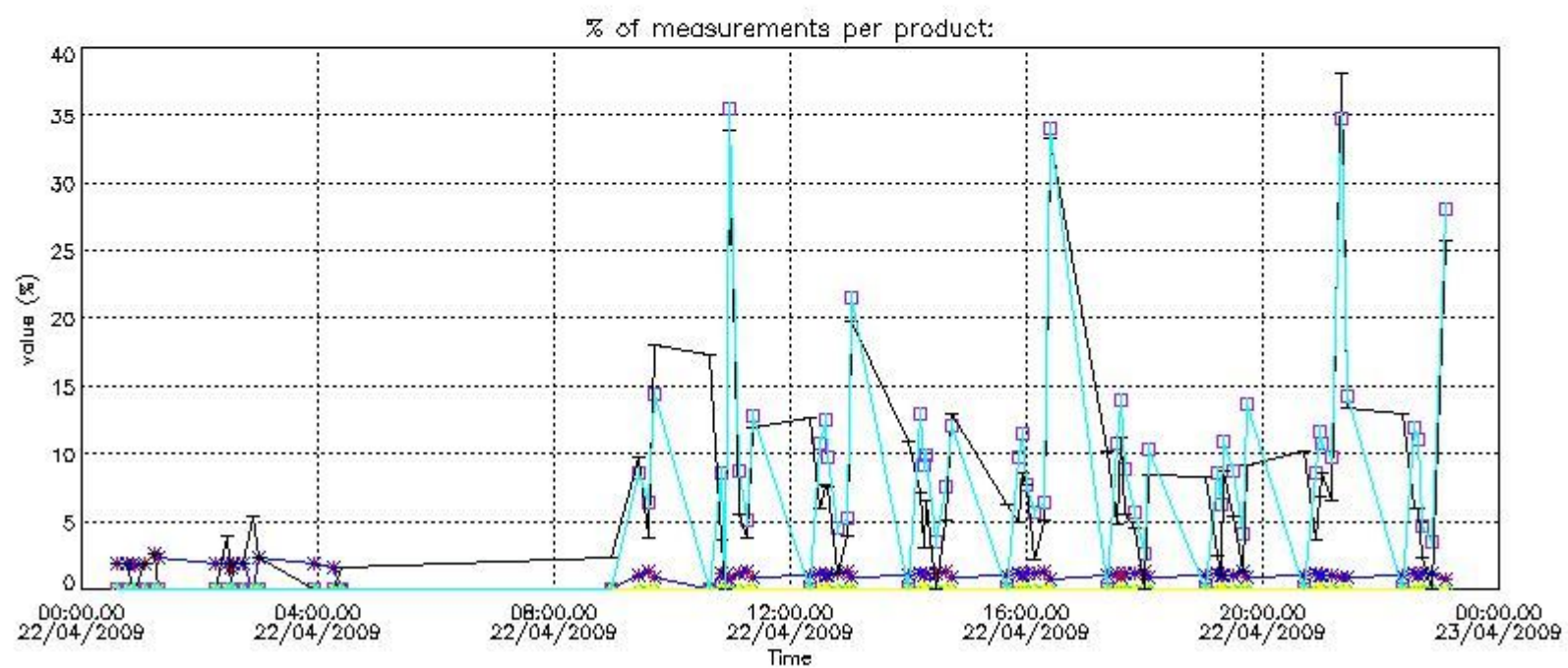
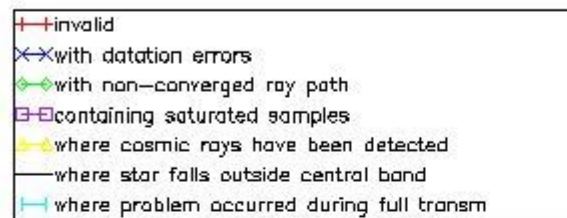
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



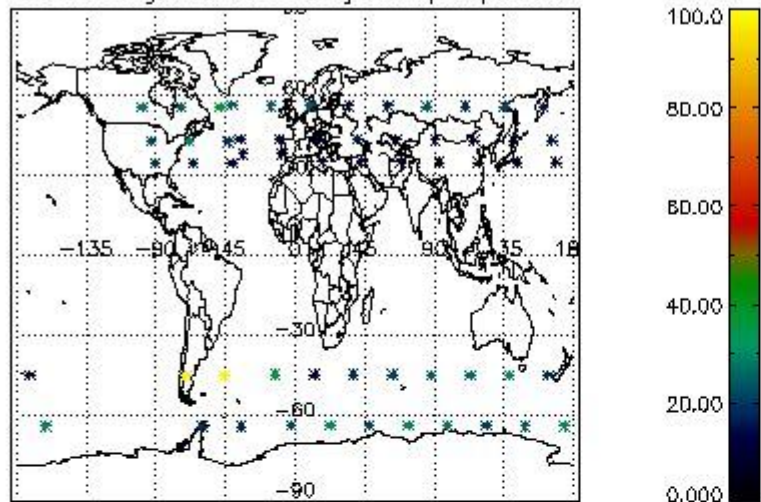
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



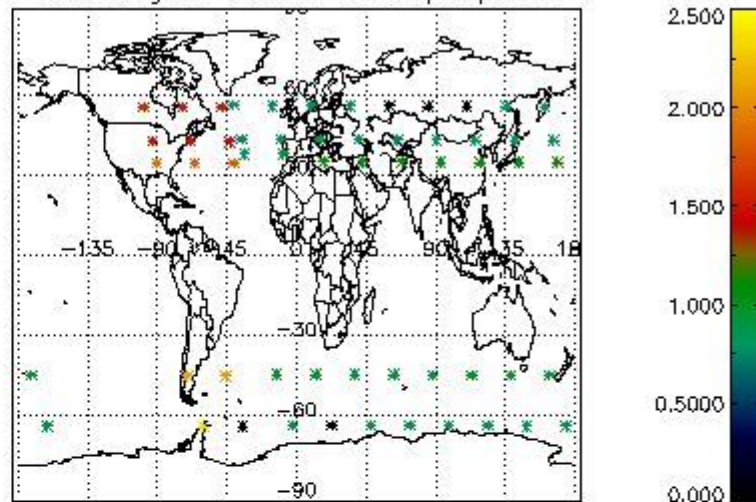
4.2 Plot quality information per product coming from level 1b processing (world map)

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

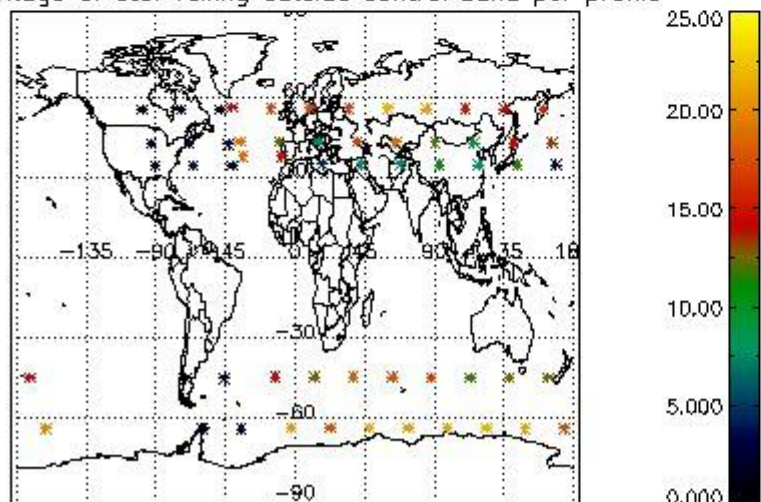
Percentage of cosmic ray hits per profile



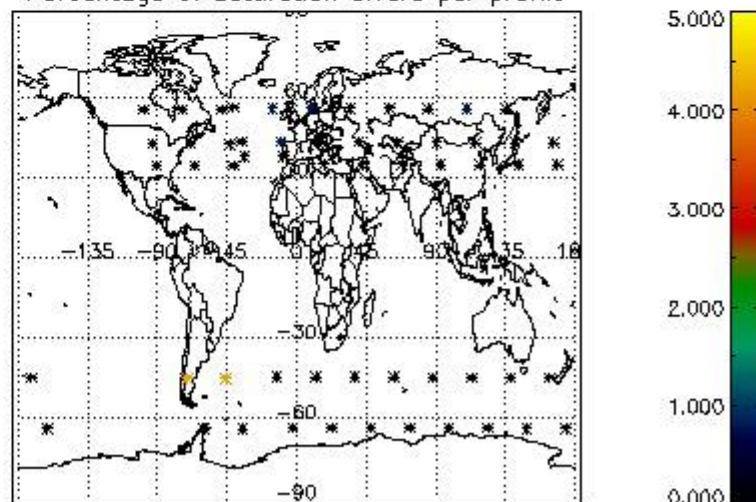
Percentage of datation errors per profile



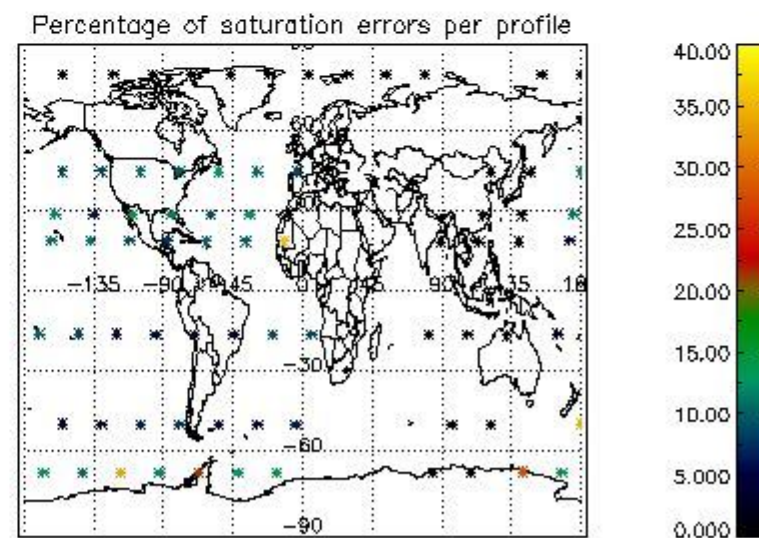
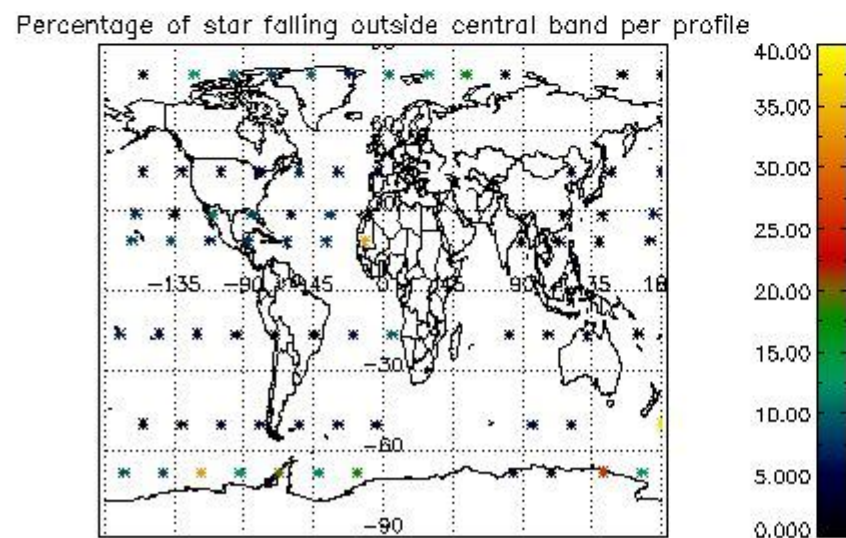
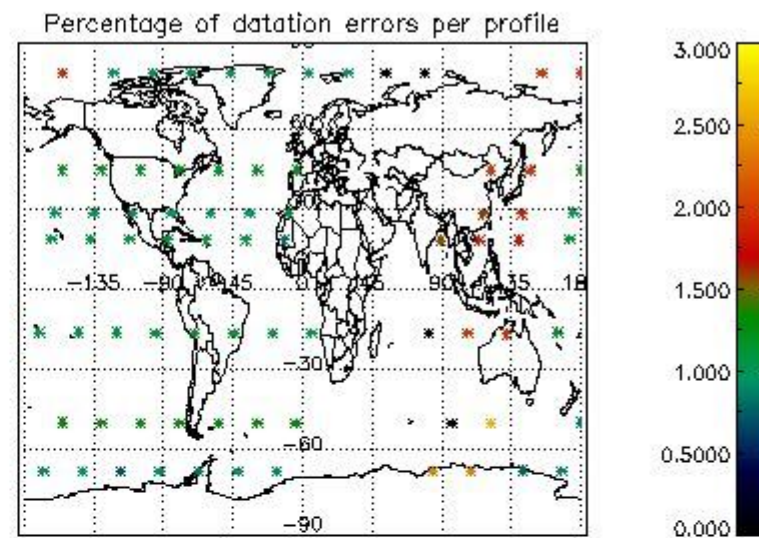
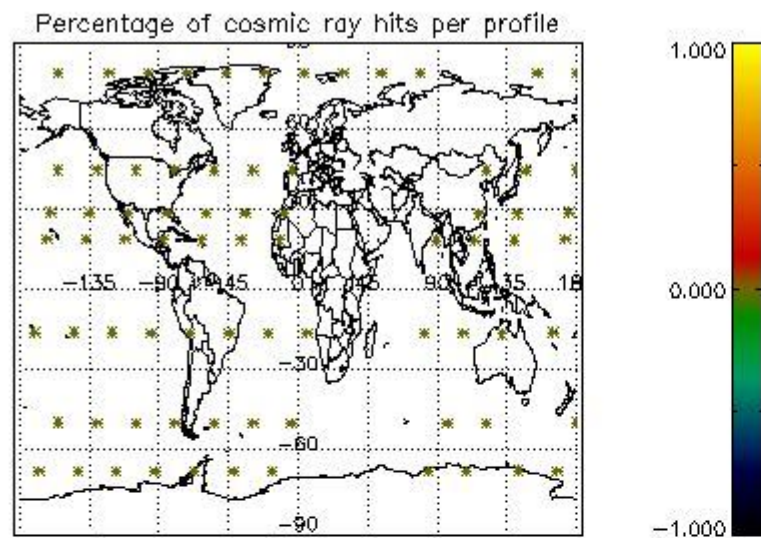
Percentage of star falling outside central band per profile



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

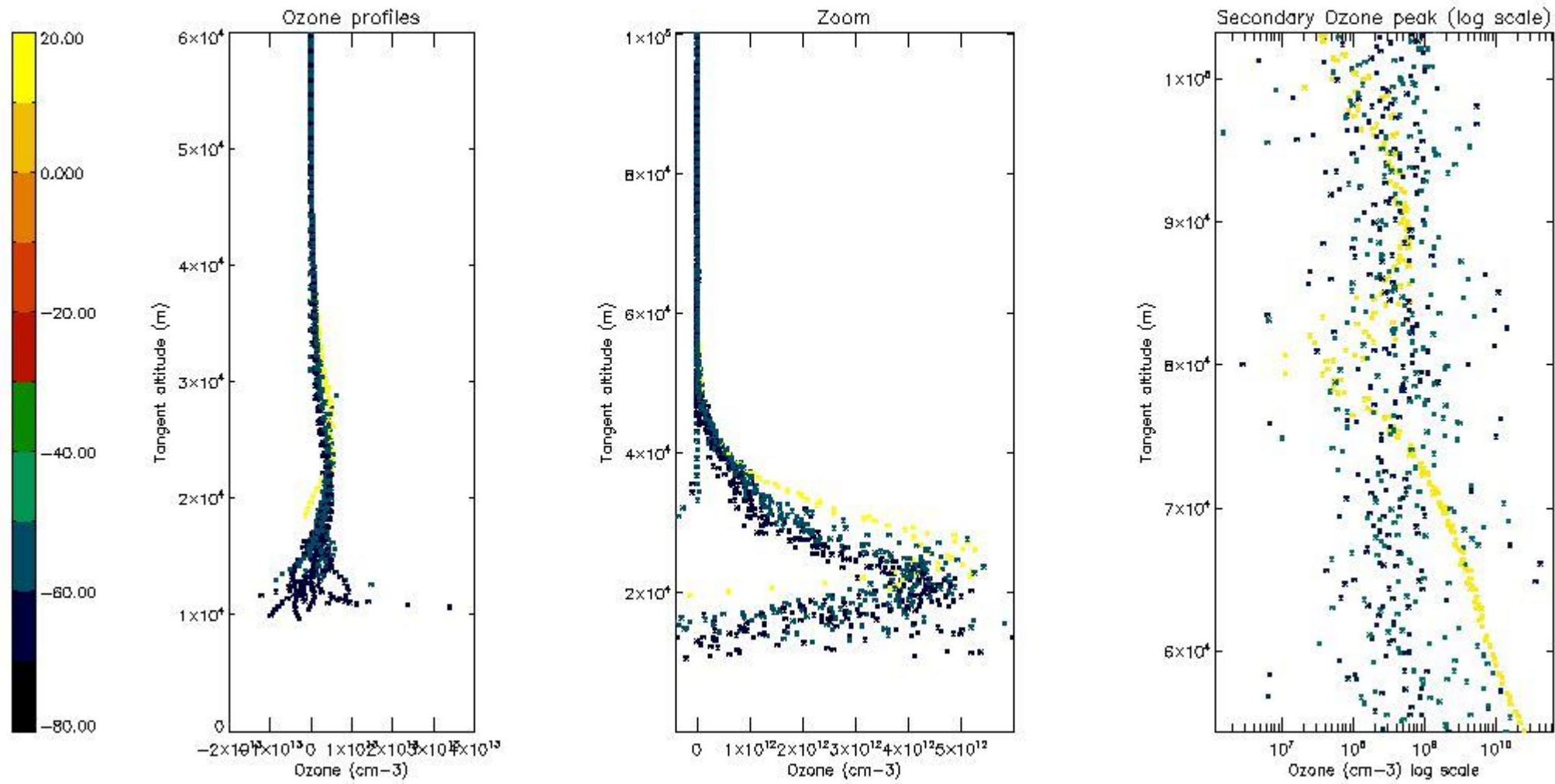
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	21
STD < 20	6

STD < 10	3
STD < 5	1

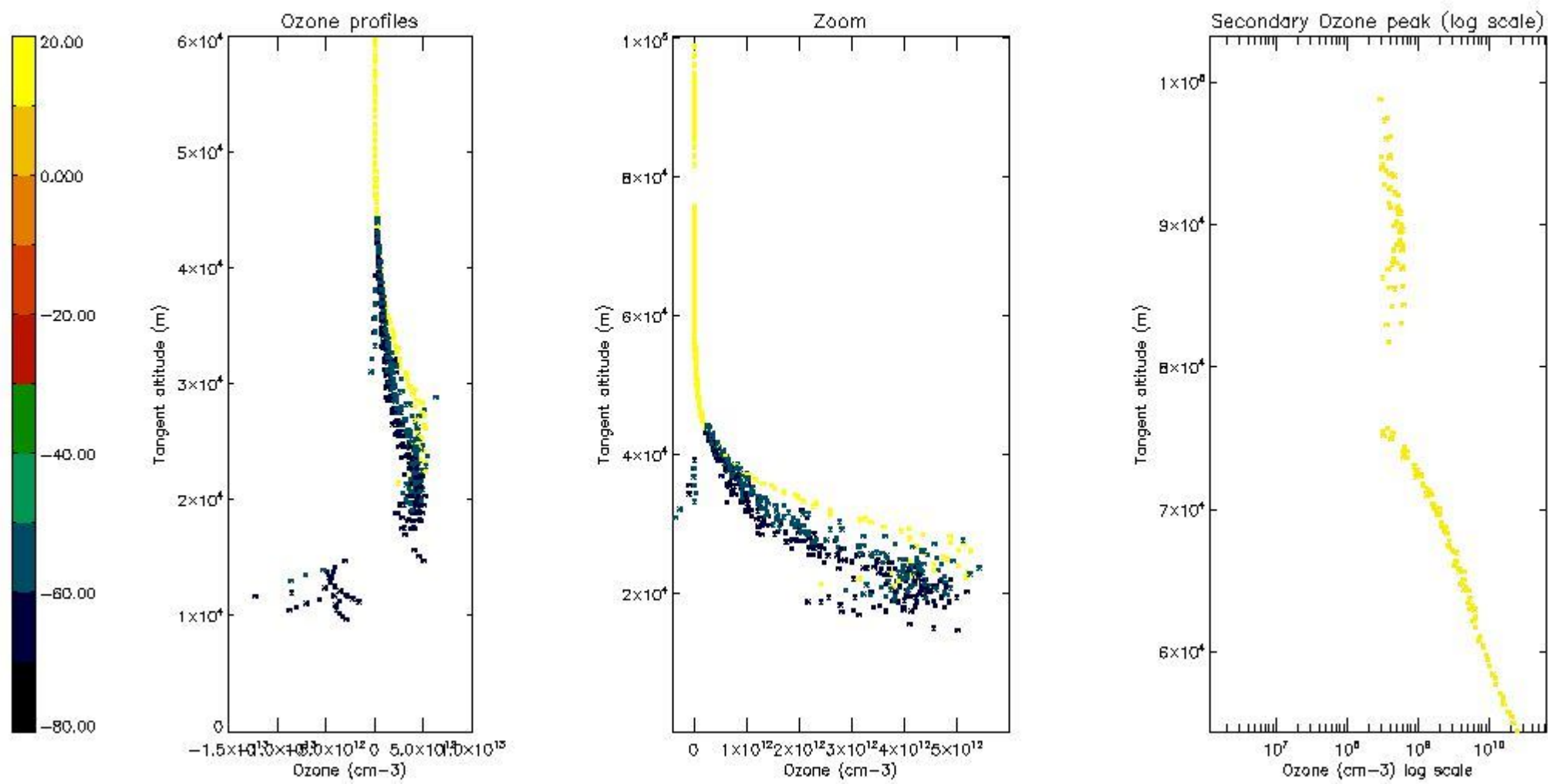
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



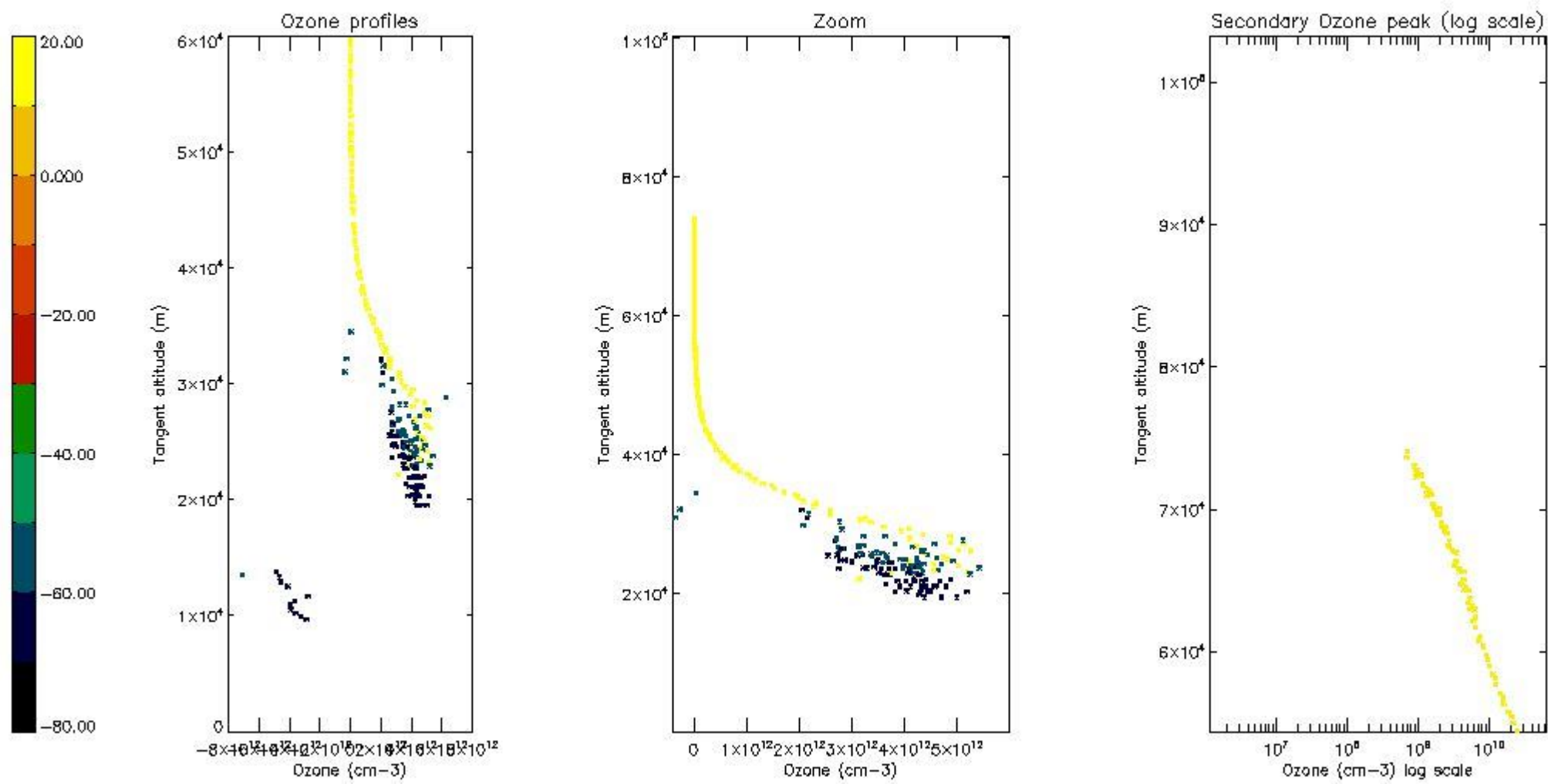
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



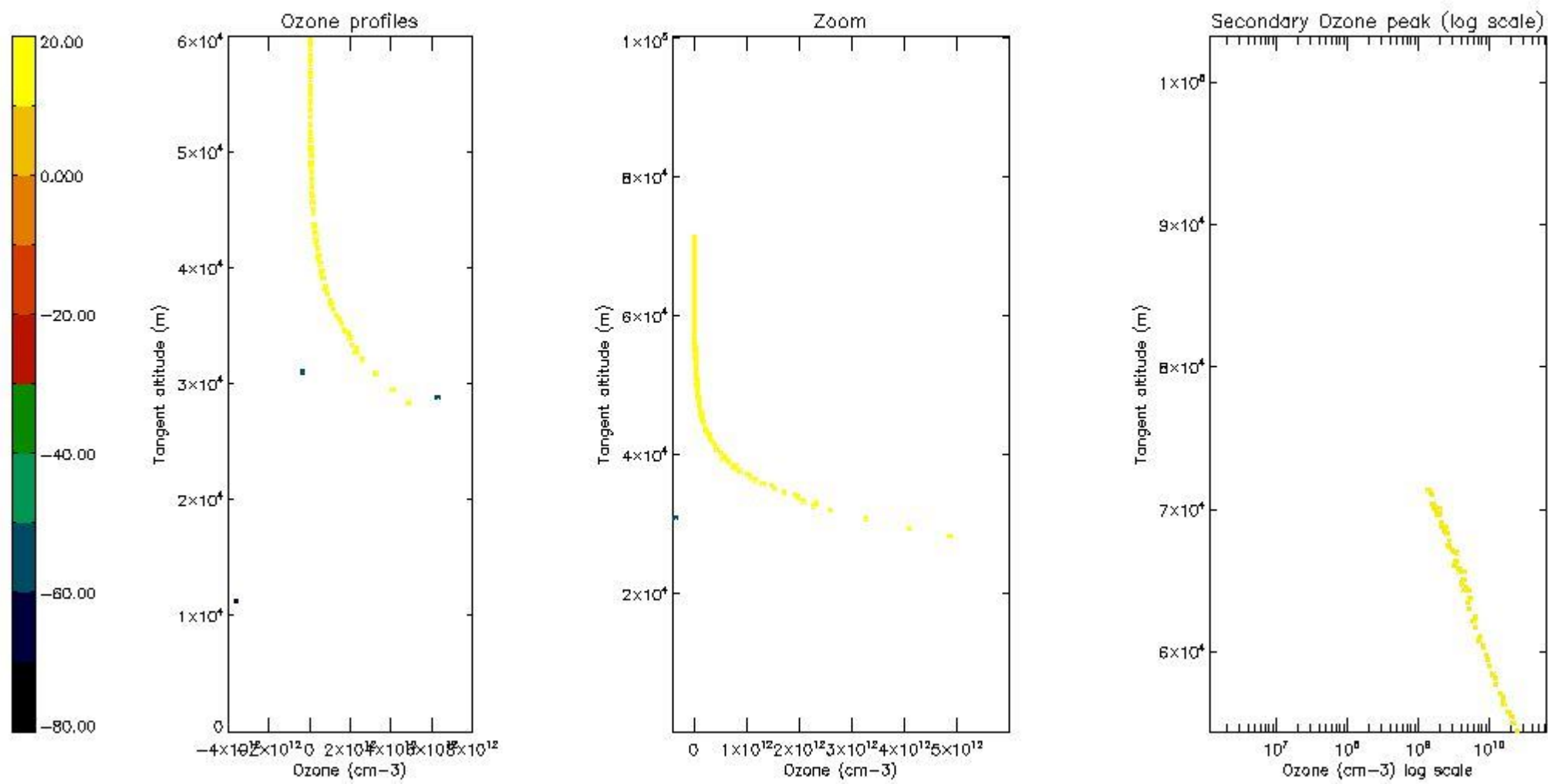
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



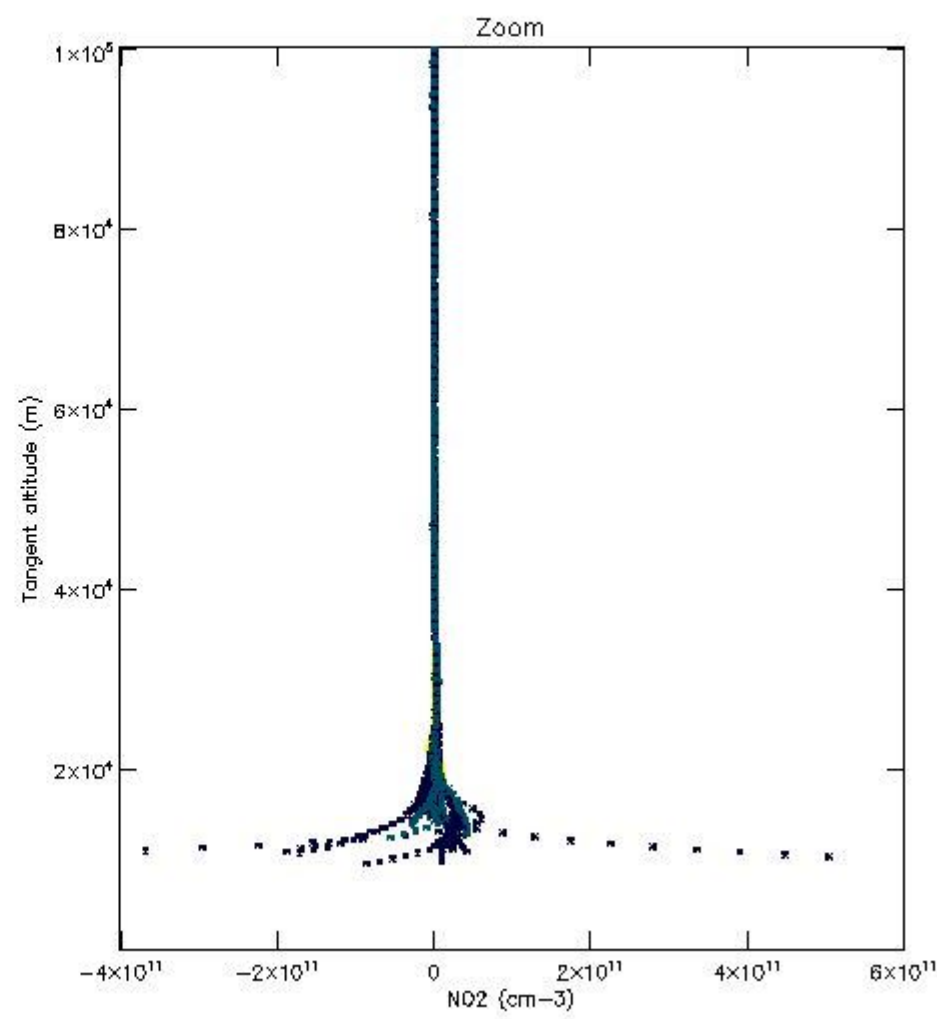
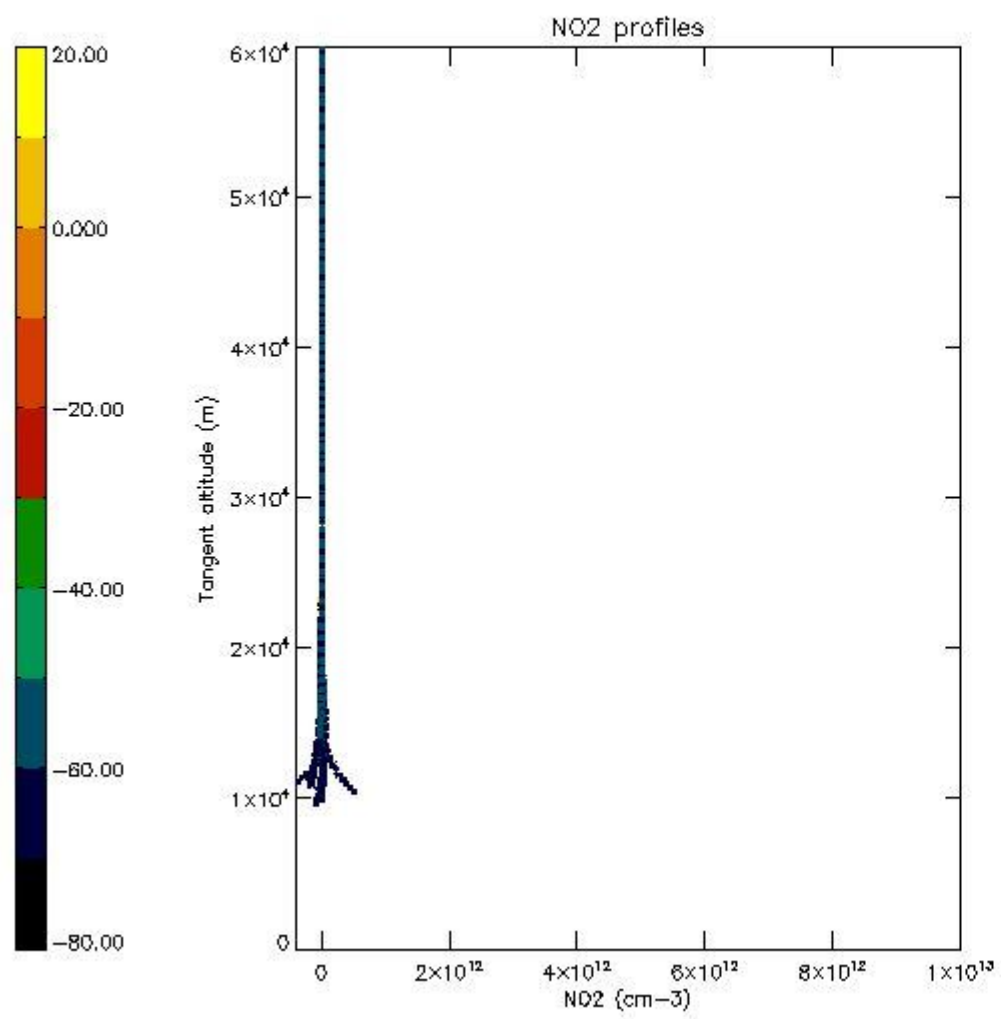
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



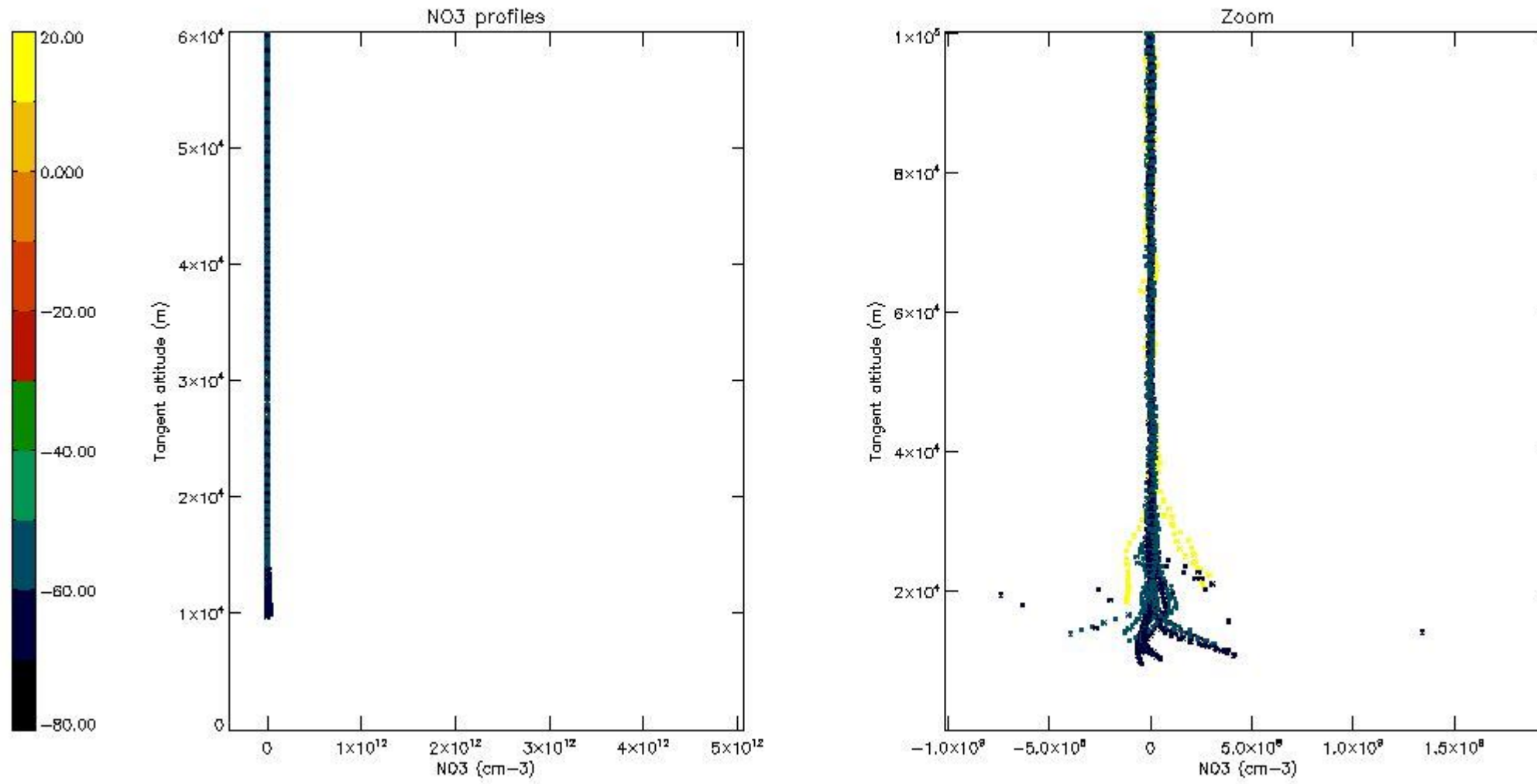
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	22-APR-2009 00:18:25
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-APR-2009 00:18:25
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-APR-2009 00:18:25

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](#)

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[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	26APR2013 08:57:46
Data source version	GOMOS/6.01
Start time of products	22-04-2009 (22APR2009 00:00:00)
Stop time of products	23-04-2009 (23APR2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	134
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

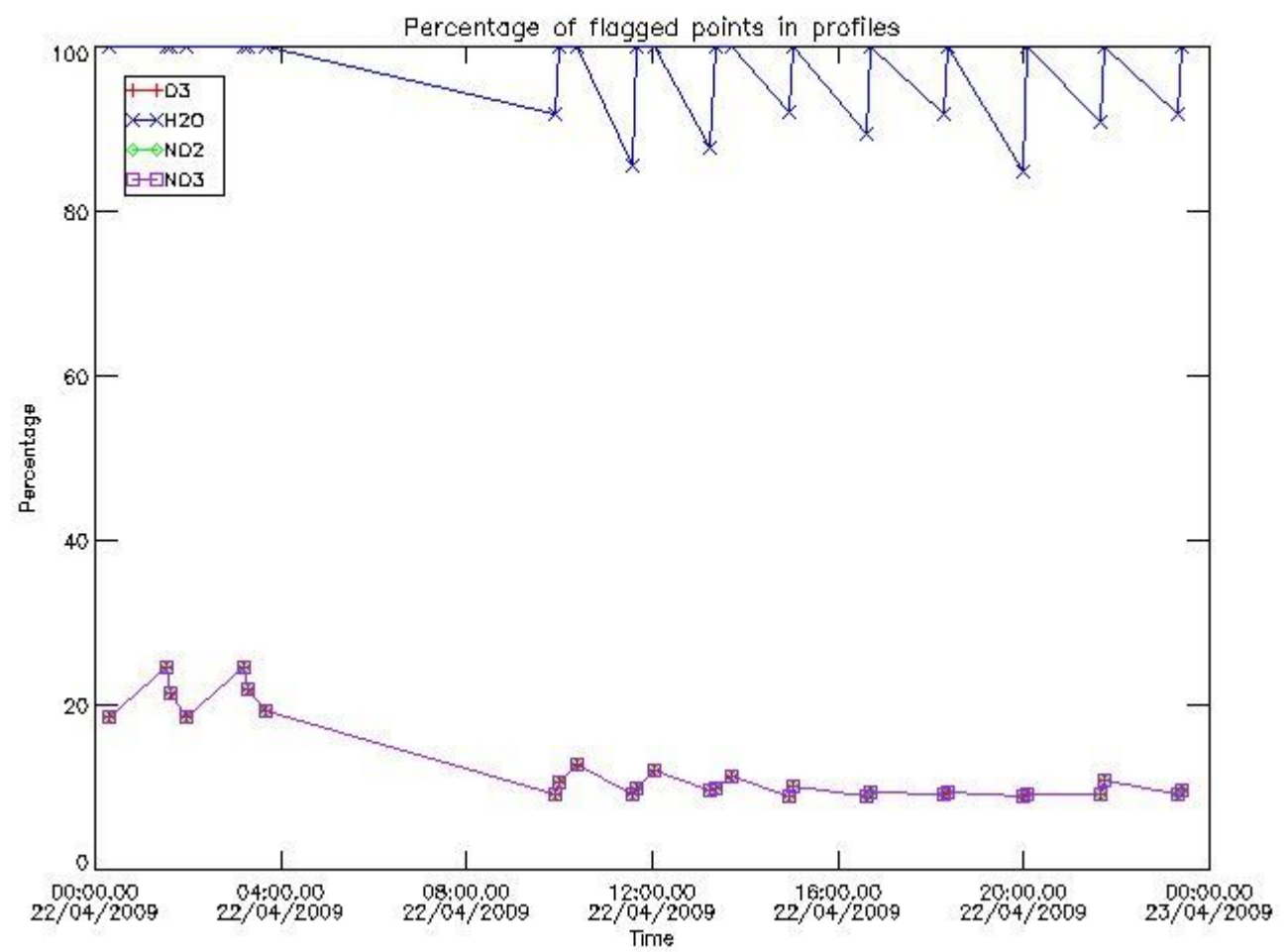
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090422_001825_000000282078_00217_37345_9214.N1	22-APR-2009 00:18:25	Dark	27.500	147	Alp Ara	2.8770	26000.	55	37345	No
2	GOM_NL__2PRFIN20090422_002043_000000352078_00217_37345_9215.N1	22-APR-2009 00:20:43	Straylight	34.500	25	35Lam Sco	1.6200	28000.	69	37345	No
3	GOM_NL__2PRFIN20090422_002421_000000332078_00217_37345_9216.N1	22-APR-2009 00:24:21	Straylight	33.000	75	26Eps Sco	2.2910	4250.0	66	37345	No
4	GOM_NL__2PRFIN20090422_003504_000000272078_00217_37345_9217.N1	22-APR-2009 00:35:04	Twilight	26.500	122	9Alp2Lib	2.7470	9700.0	53	37345	No
5	GOM_NL__2PRFIN20090422_004633_000000262078_00217_37345_9218.N1	22-APR-2009 00:46:33	Twilight	25.500	111	8Eta Boo	2.6800	6000.0	51	37345	No
6	GOM_NL__2PRFIN20090422_005108_000000272078_00217_37345_9219.N1	22-APR-2009 00:51:08	Twilight	27.000	83		2.3780	11000.	54	37345	No
7	GOM_NL__2PRFIN20090422_005356_000000282078_00217_37345_9220.N1	22-APR-2009 00:53:56	Twilight	28.000	180	27Gam Boo	3.0400	8000.0	56	37345	No
8	GOM_NL__2PRFIN20090422_010341_000000262078_00217_37345_9221.N1	22-APR-2009 01:03:41	Twilight	26.000	119	14Eta Dra	2.7270	4700.0	52	37345	No
9	GOM_NL__2PRFIN20090422_011308_000000192078_00217_37345_9222.N1	22-APR-2009 01:13:08	Twilight	19.000	89	5Alp Cep	2.4510	8000.0	38	37345	No
10	GOM_NL__2PRFIN20090422_011824_000000222078_00217_37345_9223.N1	22-APR-2009 01:18:24	Twilight	21.500	19	50Alp Cyg	1.2460	10500.	43	37345	No
11	GOM_NL__2PRFIN20090422_013112_000000212078_00217_37345_9224.N1	22-APR-2009 01:31:12	Dark	20.500	61	8Eps Peg	2.1000	3900.0	41	37345	No
12	GOM_NL__2PRFIN20090422_013640_000000242078_00217_37345_9225.N1	22-APR-2009 01:36:40	Dark	24.000	154	22Bet Aqr	2.8990	5700.0	48	37345	No
13	GOM_NL__2PRFIN20090422_015901_000000282078_00218_37346_9227.N1	22-APR-2009 01:59:01	Dark	27.500	147	Alp Ara	2.8770	26000.	55	37346	No
14	GOM_NL__2PRFIN20090422_020120_000000342078_00218_37346_9228.N1	22-APR-2009 02:01:20	Straylight	34.000	25	35Lam Sco	1.6200	28000.	68	37346	No
15	GOM_NL__2PRFIN20090422_020458_000000332078_00218_37346_9229.N1	22-APR-2009 02:04:58	Straylight	33.000	75	26Eps Sco	2.2910	4250.0	66	37346	No
16	GOM_NL__2PRFIN20090422_021540_000000262078_00218_37346_9230.N1	22-APR-2009 02:15:40	Twilight	26.000	122	9Alp2Lib	2.7470	9700.0	52	37346	No
17	GOM_NL__2PRFIN20090422_022708_000000262078_00218_37346_9231.N1	22-APR-2009 02:27:08	Twilight	25.500	111	8Eta Boo	2.6800	6000.0	51	37346	No
18	GOM_NL__2PRFIN20090422_023143_000000312078_00218_37346_9232.N1	22-APR-2009 02:31:43	Twilight	31.000	83		2.3780	11000.	62	37346	No
19	GOM_NL__2PRFIN20090422_023431_000000282078_00218_37346_9233.N1	22-APR-2009 02:34:31	Twilight	27.500	180	27Gam Boo	3.0400	8000.0	55	37346	No
20	GOM_NL__2PRFIN20090422_024416_000000262078_00218_37346_9234.N1	22-APR-2009 02:44:16	Twilight	25.500	119	14Eta Dra	2.7270	4700.0	51	37346	No
21	GOM_NL__2PRFIN20090422_025344_000000192078_00218_37346_9235.N1	22-APR-2009 02:53:44	Twilight	18.500	89	5Alp Cep	2.4510	8000.0	37	37346	No
22	GOM_NL__2PRFIN20090422_025900_000000222078_00218_37346_9236.N1	22-APR-2009 02:59:00	Twilight	21.500	19	50Alp Cyg	1.2460	10500.	43	37346	No
23	GOM_NL__2PRFIN20090422_031148_000000212078_00218_37346_9237.N1	22-APR-2009 03:11:48	Dark	21.000	61	8Eps Peg	2.1000	3900.0	42	37346	No
24	GOM_NL__2PRFIN20090422_031716_000000242078_00218_37346_9238.N1	22-APR-2009 03:17:16	Dark	23.500	154	22Bet Aqr	2.8990	5700.0	47	37346	No
25	GOM_NL__2PRFIN20090422_033938_000000272078_00219_37347_9240.N1	22-APR-2009 03:39:38	Dark	26.500	147	Alp Ara	2.8770	26000.	53	37347	No
26	GOM_NL__2PRFIN20090422_034157_000000342078_00219_37347_9241.N1	22-APR-2009 03:41:57	Straylight	34.000	25	35Lam Sco	1.6200	28000.	68	37347	No
27	GOM_NL__2PRFIN20090422_034536_000000322078_00219_37347_9242.N1	22-APR-2009 03:45:36	Straylight	31.500	75	26Eps Sco	2.2910	4250.0	63	37347	No
28	GOM_NL__2PRFIN20090422_035616_000000262078_00219_37347_9243.N1	22-APR-2009 03:56:16	Twilight	25.500	122	9Alp2Lib	2.7470	9700.0	51	37347	No
29	GOM_NL__2PRFIN20090422_041506_000000322078_00219_37347_9244.N1	22-APR-2009 04:15:06	Twilight	32.000	180	27Gam Boo	3.0400	8000.0	64	37347	No
30	GOM_NL__2PRFIN20090422_042451_000000312078_00219_37347_9245.N1	22-APR-2009 04:24:51	Twilight	30.500	119	14Eta Dra	2.7270	4700.0	61	37347	No
31	GOM_NL__2PRFIN20090422_085805_000000442078_00222_37350_9337.N1	22-APR-2009 08:58:05	Bright	43.500	122	9Alp2Lib	2.7470	9700.0	87	37350	No
32	GOM_NL__2PRFIN20090422_092637_000000472078_00222_37350_9338.N1	22-APR-2009 09:26:37	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	37350	No
33	GOM_NL__2PRFIN20090422_093607_000000402078_00222_37350_9339.N1	22-APR-2009 09:36:07	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	37350	No
34	GOM_NL__2PRFIN20090422_094123_000000562078_00222_37350_9340.N1	22-APR-2009 09:41:23	Bright	55.500	19	50Alp Cyg	1.2460	10500.	111	37350	No
35	GOM_NL__2PRFIN20090422_095415_000000562078_00222_37350_9341.N1	22-APR-2009 09:54:15	Dark	55.500	61	8Eps Peg	2.1000	3900.0	111	37350	No
36	GOM_NL__2PRFIN20090422_095944_000000532078_00222_37350_9342.N1	22-APR-2009 09:59:44	Dark	52.500	154	22Bet Aqr	2.8990	5700.0	105	37350	No
37	GOM_NL__2PRFIN20090422_102205_000000442078_00223_37351_9377.N1	22-APR-2009 10:22:05	Dark	43.500	147	Alp Ara	2.8770	26000.	87	37351	No
38	GOM_NL__2PRFIN20090422_102426_000000642078_00223_37351_9378.N1	22-APR-2009 10:24:26	Straylight	63.500	25	35Lam Sco	1.6200	28000.	127	37351	No
39	GOM_NL__2PRFIN20090422_102803_000000642078_00223_37351_9379.N1	22-APR-2009 10:28:03	Straylight	64.000	75	26Eps Sco	2.2910	4250.0	128	37351	No
40	GOM_NL__2PRFIN20090422_103840_000000522078_00223_37351_9380.N1	22-APR-2009 10:38:40	Bright	52.000	122	9Alp2Lib	2.7470	9700.0	104	37351	No
41	GOM_NL__2PRFIN20090422_105006_000000412078_00223_37351_9381.N1	22-APR-2009 10:50:06	Bright	41.000	111	8Eta Boo	2.6800	6000.0	82	37351	No
42	GOM_NL__2PRFIN20090422_105439_000000462078_00223_37351_9382.N1	22-APR-2009 10:54:39	Bright	46.000	83		2.3780	11000.	92	37351	No

102	GOM_NL__2PRFIN20090422_191735_000000482078_00228_37356_9461.N1	22-APR-2009 19:17:35	Bright	48.000	83		2.3780	11000.	96	37356	No
103	GOM_NL__2PRFIN20090422_192024_000000462078_00228_37356_9462.N1	22-APR-2009 19:20:24	Bright	46.000	180	27Gam Boo	3.0400	8000.0	92	37356	No
104	GOM_NL__2PRFIN20090422_193009_000000462078_00228_37356_9463.N1	22-APR-2009 19:30:09	Bright	46.000	119	14Eta Dra	2.7270	4700.0	92	37356	No
105	GOM_NL__2PRFIN20090422_193941_000000382078_00228_37356_9464.N1	22-APR-2009 19:39:41	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	37356	No
106	GOM_NL__2PRFIN20090422_194457_000000552078_00228_37356_9465.N1	22-APR-2009 19:44:57	Bright	55.000	19	50Alp Cyg	1.2460	10500.	110	37356	No
107	GOM_NL__2PRFIN20090422_195754_000000572078_00228_37356_9466.N1	22-APR-2009 19:57:54	Dark	56.500	61	8Eps Peg	2.1000	3900.0	113	37356	No
108	GOM_NL__2PRFIN20090422_200324_000000552078_00228_37356_9467.N1	22-APR-2009 20:03:24	Dark	55.000	154	22Bet Aqr	2.8990	5700.0	110	37356	No
109	GOM_NL__2PRFIN20090422_202546_000000452078_00229_37357_9494.N1	22-APR-2009 20:25:46	Straylight	44.500	147	Alp Ara	2.8770	26000.	89	37357	No
110	GOM_NL__2PRFIN20090422_202808_000000592078_00229_37357_9495.N1	22-APR-2009 20:28:08	Straylight	59.000	25	35Lam Sco	1.6200	28000.	118	37357	No
111	GOM_NL__2PRFIN20090422_203144_000000642078_00229_37357_9496.N1	22-APR-2009 20:31:44	Straylight	64.000	75	26Eps Sco	2.2910	4250.0	128	37357	No
112	GOM_NL__2PRFIN20090422_204217_000000492078_00229_37357_9497.N1	22-APR-2009 20:42:17	Bright	49.000	122	9Alp2Lib	2.7470	9700.0	98	37357	No
113	GOM_NL__2PRFIN20090422_205340_000000412078_00229_37357_9498.N1	22-APR-2009 20:53:40	Bright	40.500	111	8Eta Boo	2.6800	6000.0	81	37357	No
114	GOM_NL__2PRFIN20090422_205810_000000522078_00229_37357_9499.N1	22-APR-2009 20:58:10	Bright	51.500	83		2.3780	11000.	103	37357	No
115	GOM_NL__2PRFIN20090422_210059_000000472078_00229_37357_9500.N1	22-APR-2009 21:00:59	Bright	46.500	180	27Gam Boo	3.0400	8000.0	93	37357	No
116	GOM_NL__2PRFIN20090422_211044_000000462078_00229_37357_9501.N1	22-APR-2009 21:10:44	Bright	46.000	119	14Eta Dra	2.7270	4700.0	92	37357	No
117	GOM_NL__2PRFIN20090422_212017_000000592078_00229_37357_9502.N1	22-APR-2009 21:20:17	Bright	59.000	89	5Alp Cep	2.4510	8000.0	118	37357	No
118	GOM_NL__2PRFIN20090422_212533_000000562078_00229_37357_9503.N1	22-APR-2009 21:25:33	Bright	56.000	19	50Alp Cyg	1.2460	10500.	112	37357	No
119	GOM_NL__2PRFIN20090422_213830_000000552078_00229_37357_9504.N1	22-APR-2009 21:38:30	Dark	54.500	61	8Eps Peg	2.1000	3900.0	109	37357	No
120	GOM_NL__2PRFIN20090422_214401_000000522078_00229_37357_9505.N1	22-APR-2009 21:44:01	Dark	51.500	154	22Bet Aqr	2.8990	5700.0	103	37357	No
121	GOM_NL__2PRFIN20090422_220713_000000562078_00230_37358_9513.N1	22-APR-2009 22:07:13	Straylight	55.500	40	The Sco	1.8590	7100.0	111	37358	No
122	GOM_NL__2PRFIN20090422_220845_000000622078_00230_37358_9514.N1	22-APR-2009 22:08:45	Straylight	61.500	25	35Lam Sco	1.6200	28000.	123	37358	No
123	GOM_NL__2PRFIN20090422_221221_000000652078_00230_37358_9515.N1	22-APR-2009 22:12:21	Straylight	65.000	75	26Eps Sco	2.2910	4250.0	130	37358	No
124	GOM_NL__2PRFIN20090422_222253_000000502078_00230_37358_9516.N1	22-APR-2009 22:22:53	Bright	50.000	122	9Alp2Lib	2.7470	9700.0	100	37358	No
125	GOM_NL__2PRFIN20090422_223416_000000422078_00230_37358_9517.N1	22-APR-2009 22:34:16	Bright	42.000	111	8Eta Boo	2.6800	6000.0	84	37358	No
126	GOM_NL__2PRFIN20090422_223845_000000502078_00230_37358_9518.N1	22-APR-2009 22:38:45	Bright	50.000	83		2.3780	11000.	100	37358	No
127	GOM_NL__2PRFIN20090422_224134_000000432078_00230_37358_9519.N1	22-APR-2009 22:41:34	Bright	42.500	180	27Gam Boo	3.0400	8000.0	85	37358	No
128	GOM_NL__2PRFIN20090422_225119_000000432078_00230_37358_9520.N1	22-APR-2009 22:51:19	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	37358	No
129	GOM_NL__2PRFIN20090422_230609_000000662078_00230_37358_9521.N1	22-APR-2009 23:06:09	Bright	66.000	19	50Alp Cyg	1.2460	10500.	132	37358	No
130	GOM_NL__2PRFIN20090422_231907_000000562078_00230_37358_9522.N1	22-APR-2009 23:19:07	Dark	56.000	61	8Eps Peg	2.1000	3900.0	112	37358	No
131	GOM_NL__2PRFIN20090422_232438_000000532078_00230_37358_9523.N1	22-APR-2009 23:24:38	Dark	53.000	154	22Bet Aqr	2.8990	5700.0	106	37358	No
132	GOM_NL__2PRFIN20090422_234750_000000592078_00231_37359_9530.N1	22-APR-2009 23:47:50	Straylight	58.500	40	The Sco	1.8590	7100.0	117	37359	No
133	GOM_NL__2PRFIN20090422_234922_000000662078_00231_37359_9531.N1	22-APR-2009 23:49:22	Straylight	66.000	25	35Lam Sco	1.6200	28000.	132	37359	No
134	GOM_NL__2PRFIN20090422_235257_000000632078_00231_37359_9532.N1	22-APR-2009 23:52:57	Straylight	62.500	75	26Eps Sco	2.2910	4250.0	125	37359	No

3. Quality information per product

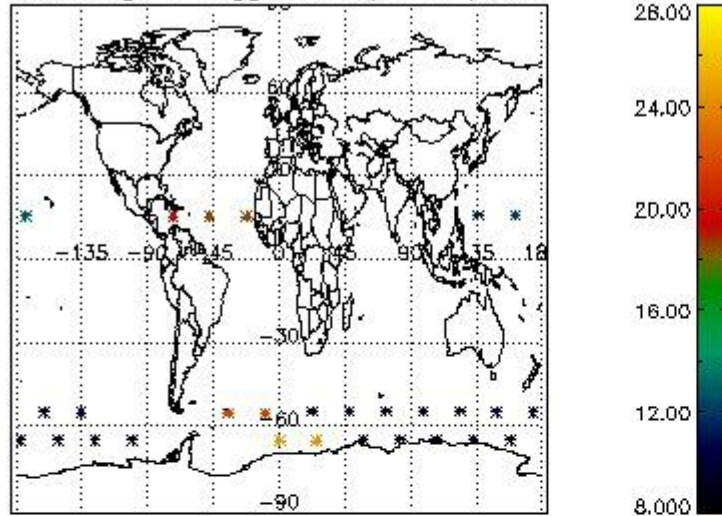
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

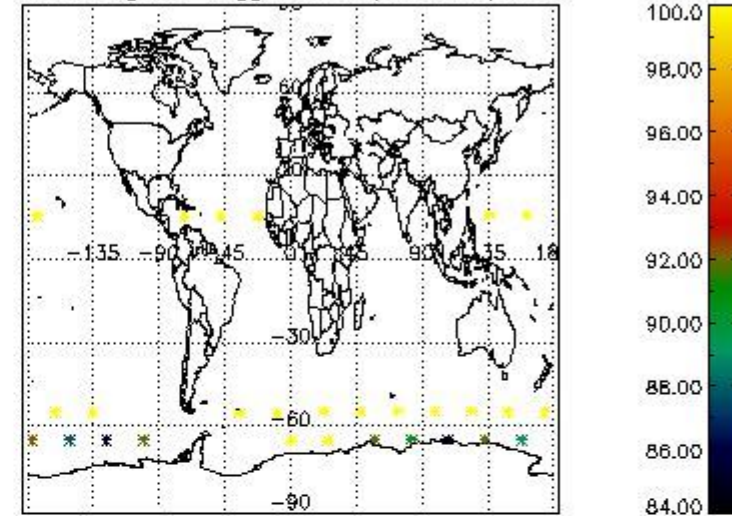


3.2 Plot quality information per product (world map)

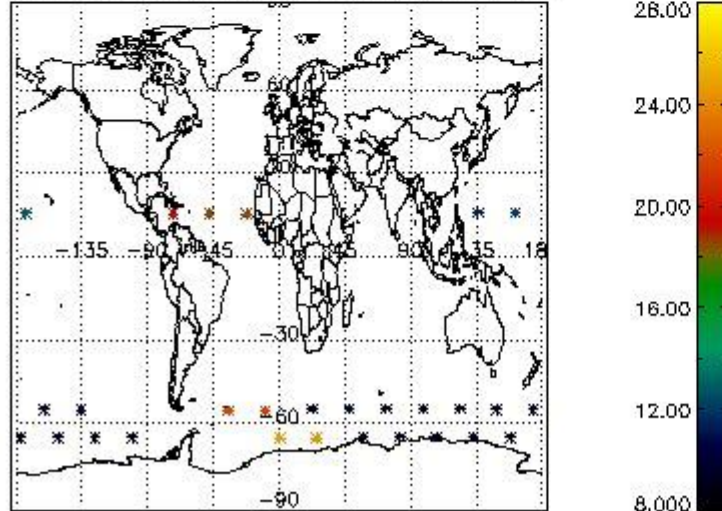
Percentage of flagged data per O3 profile



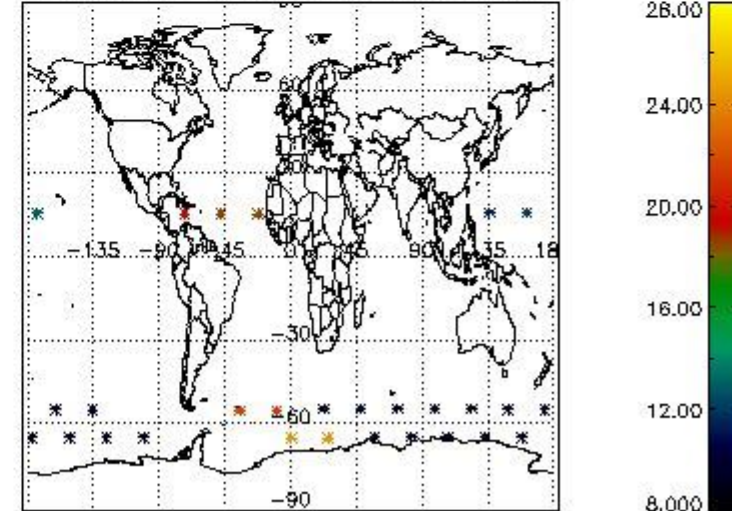
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

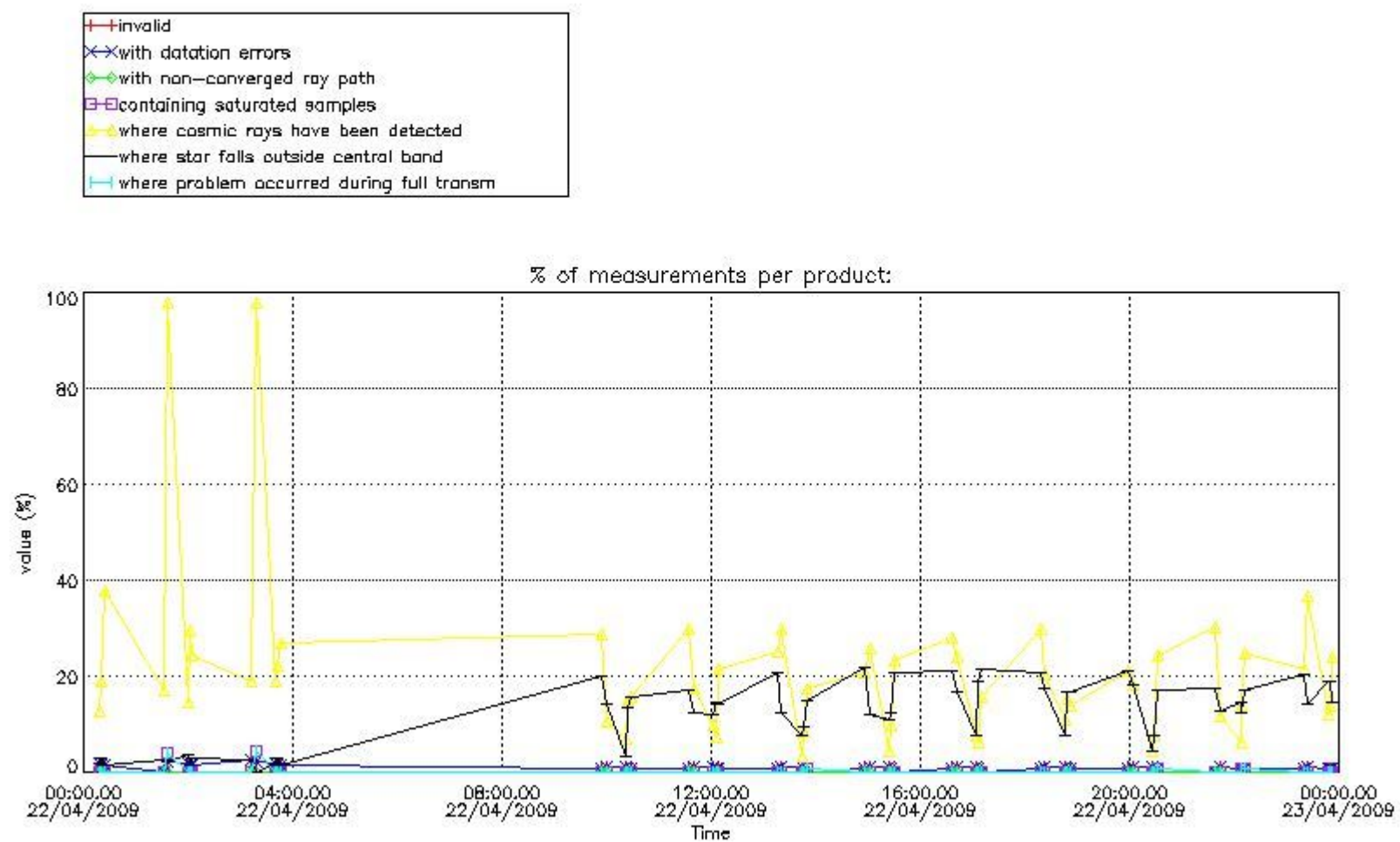


4. Level 1 quality information per product

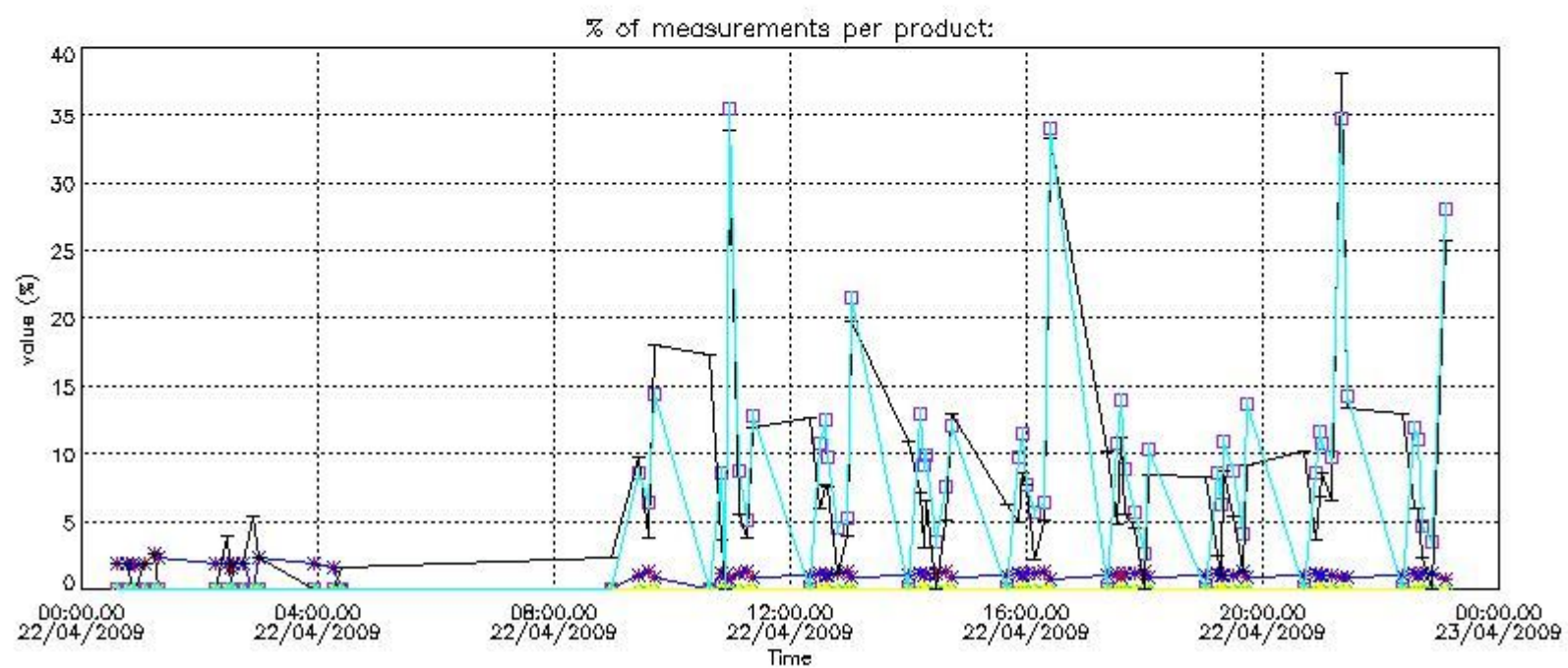
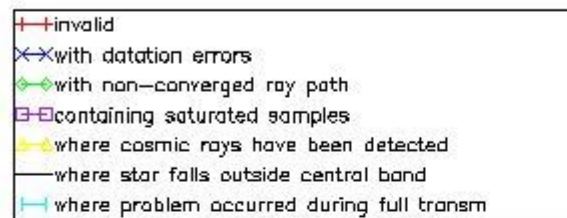
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



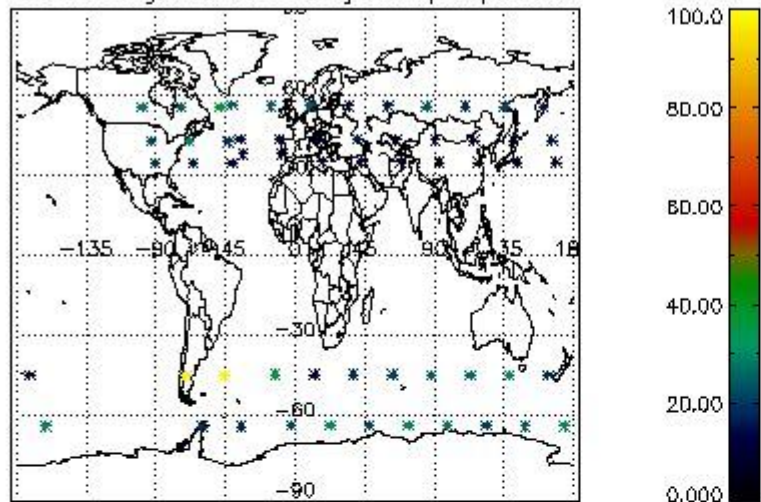
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



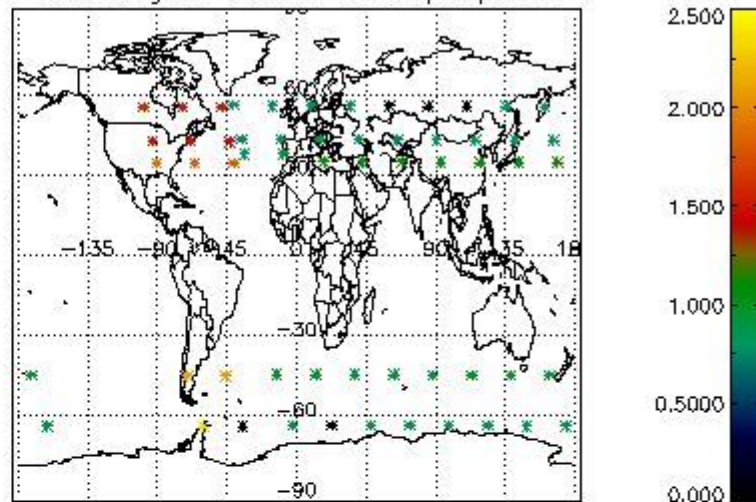
4.2 Plot quality information per product coming from level 1b processing (world map)

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

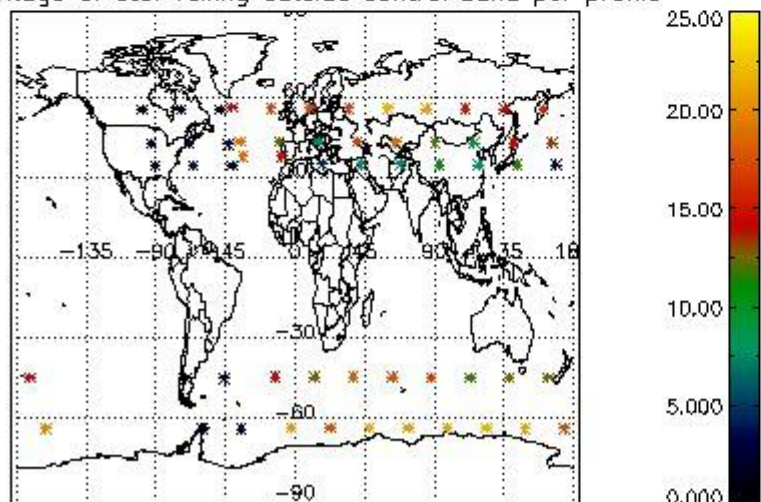
Percentage of cosmic ray hits per profile



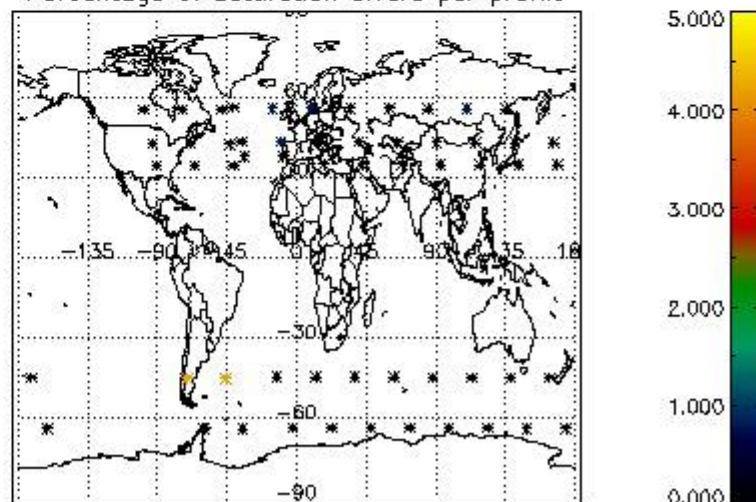
Percentage of datation errors per profile



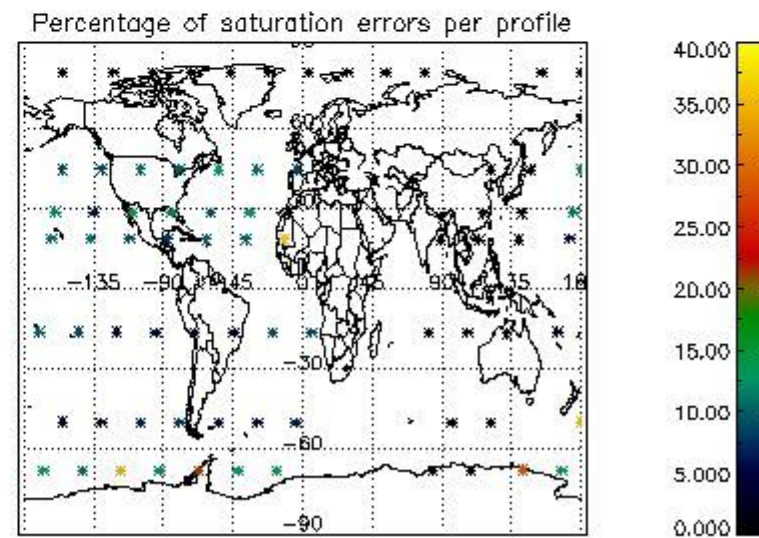
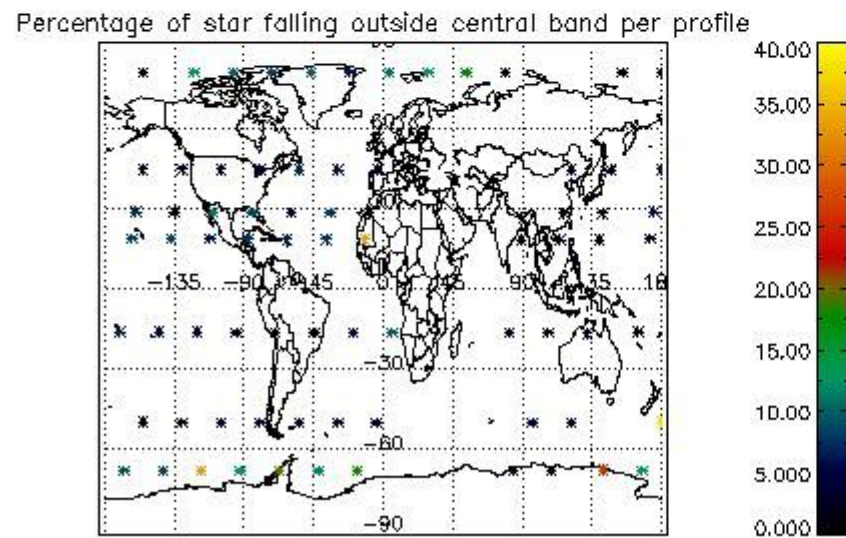
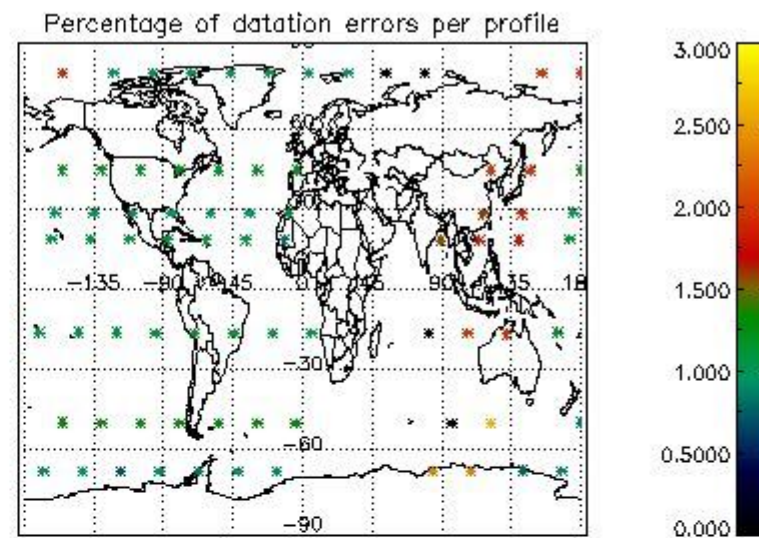
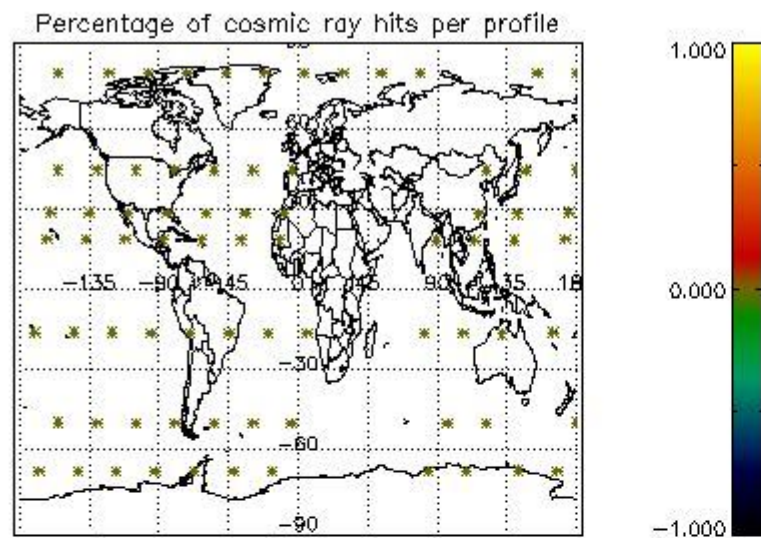
Percentage of star falling outside central band per profile



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

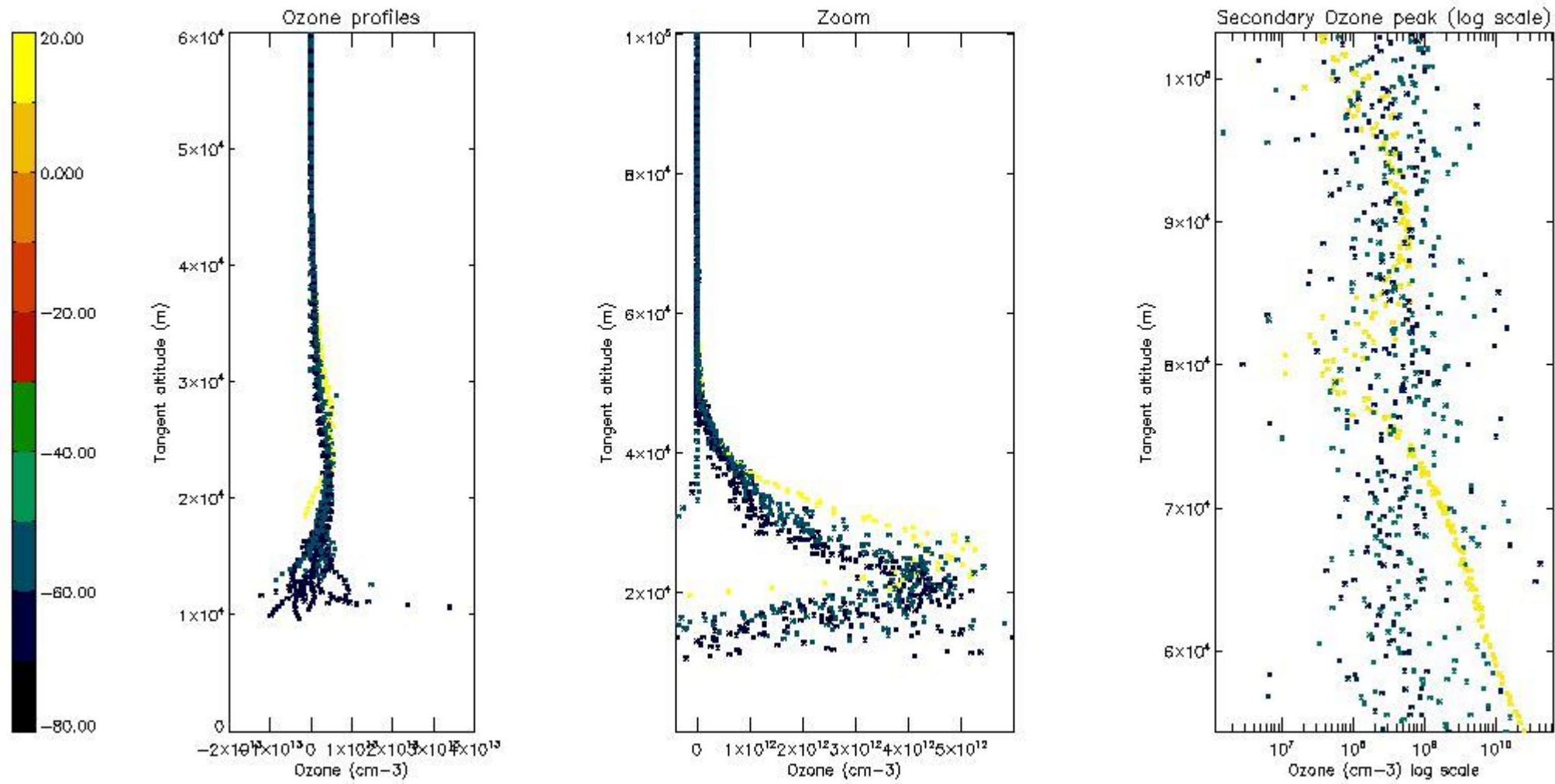
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	21
STD < 20	6

STD < 10	3
STD < 5	1

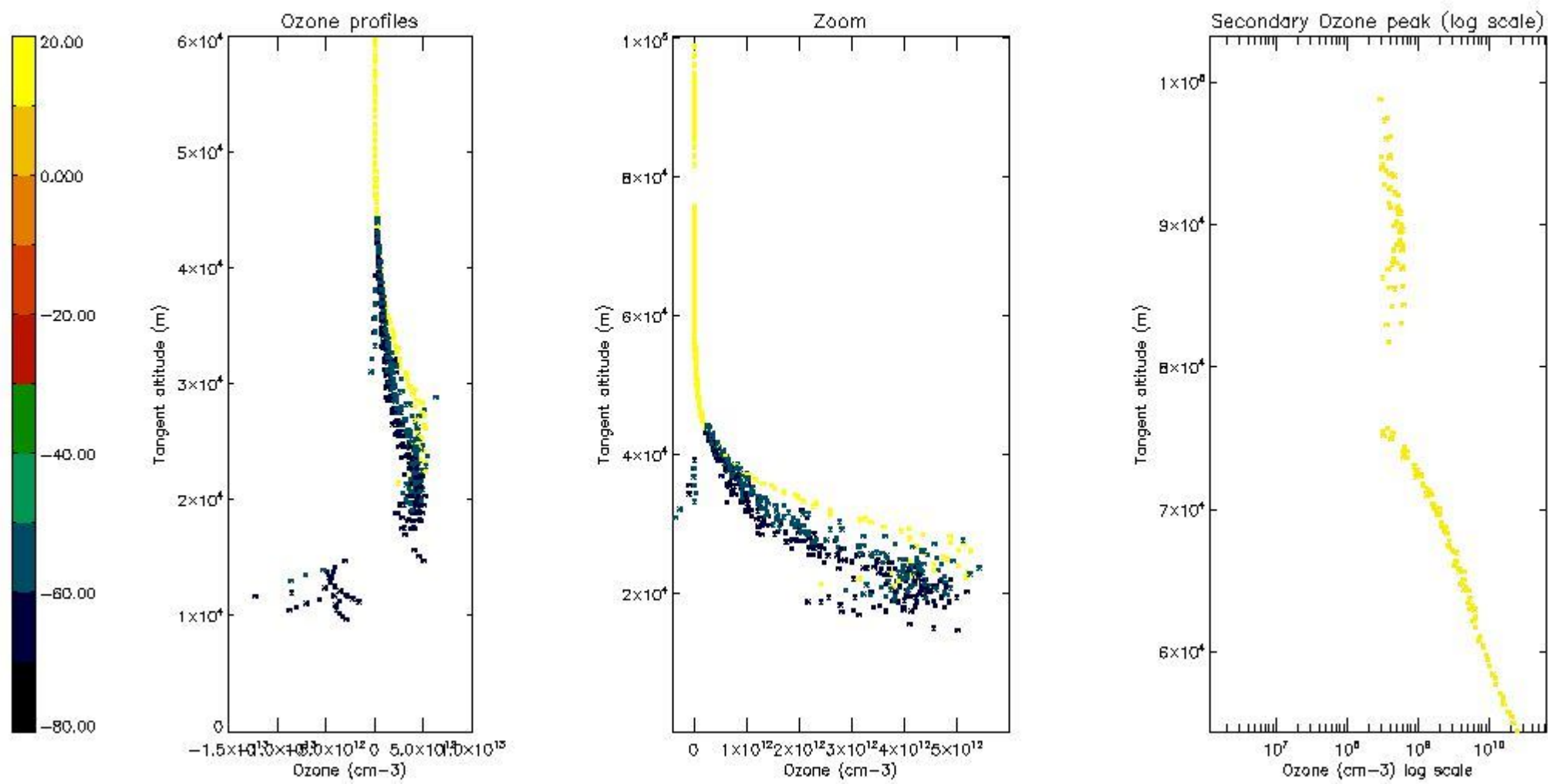
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



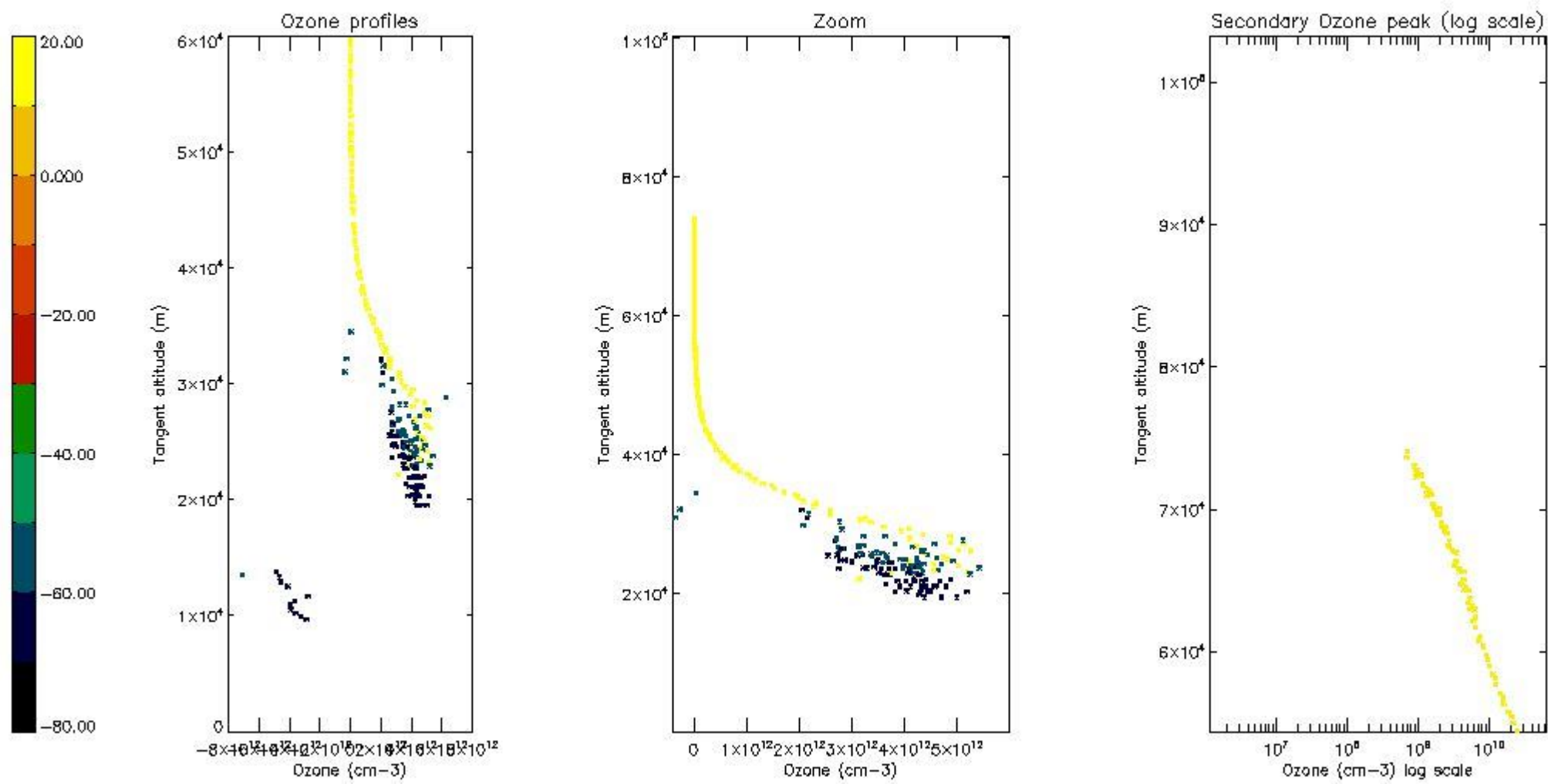
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



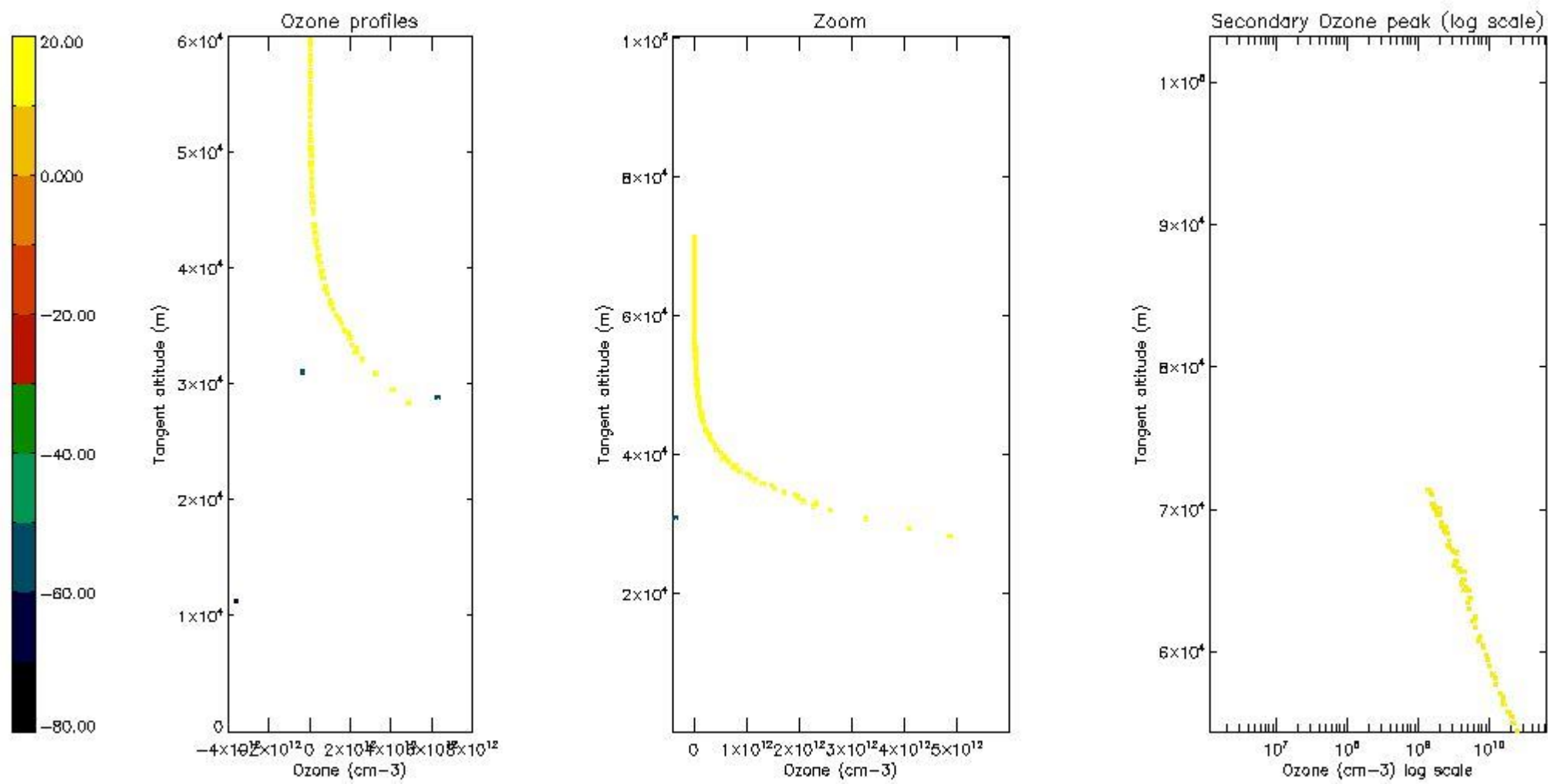
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



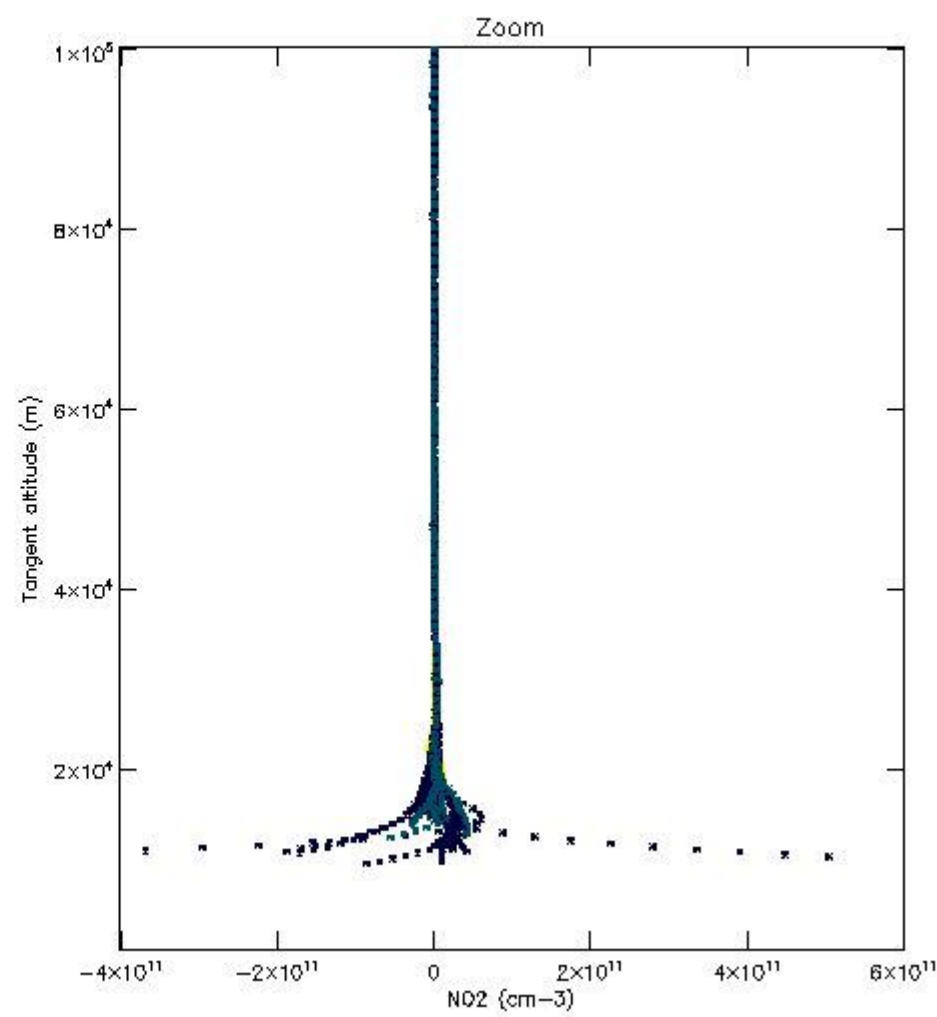
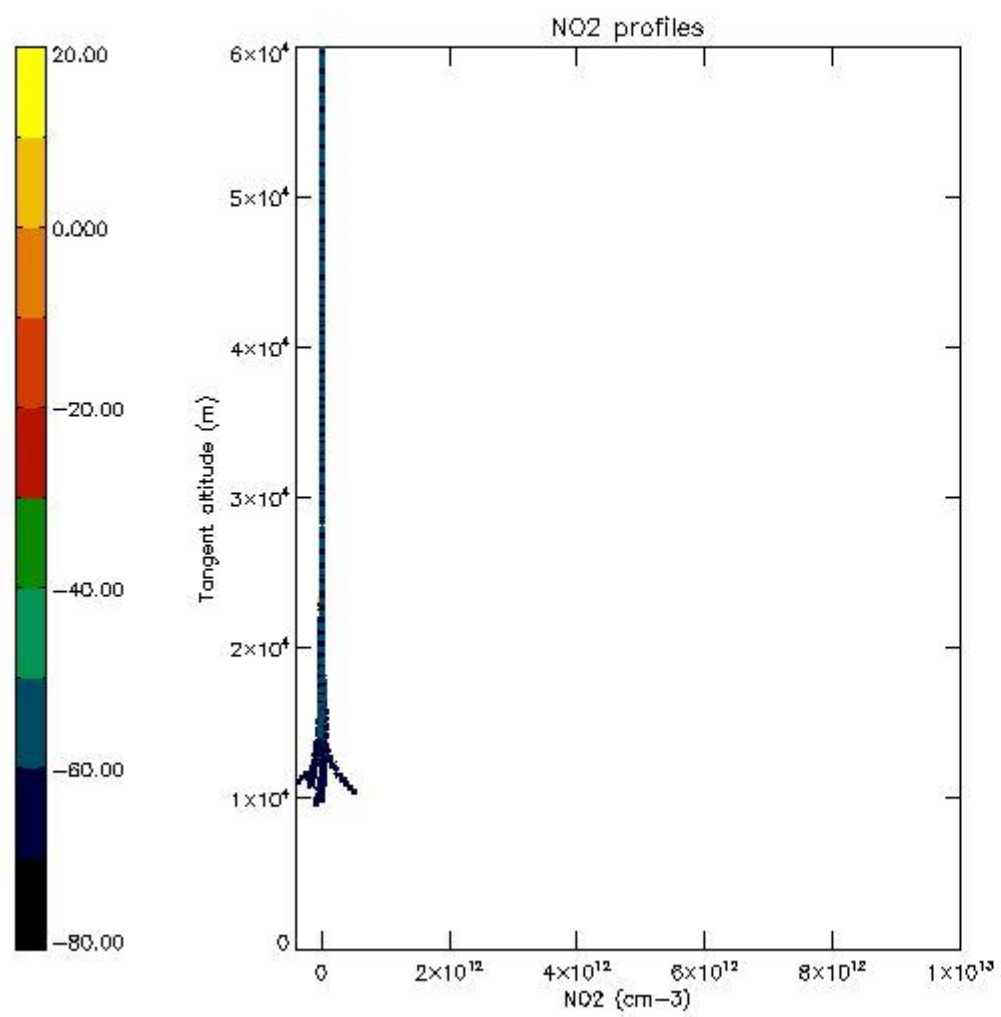
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



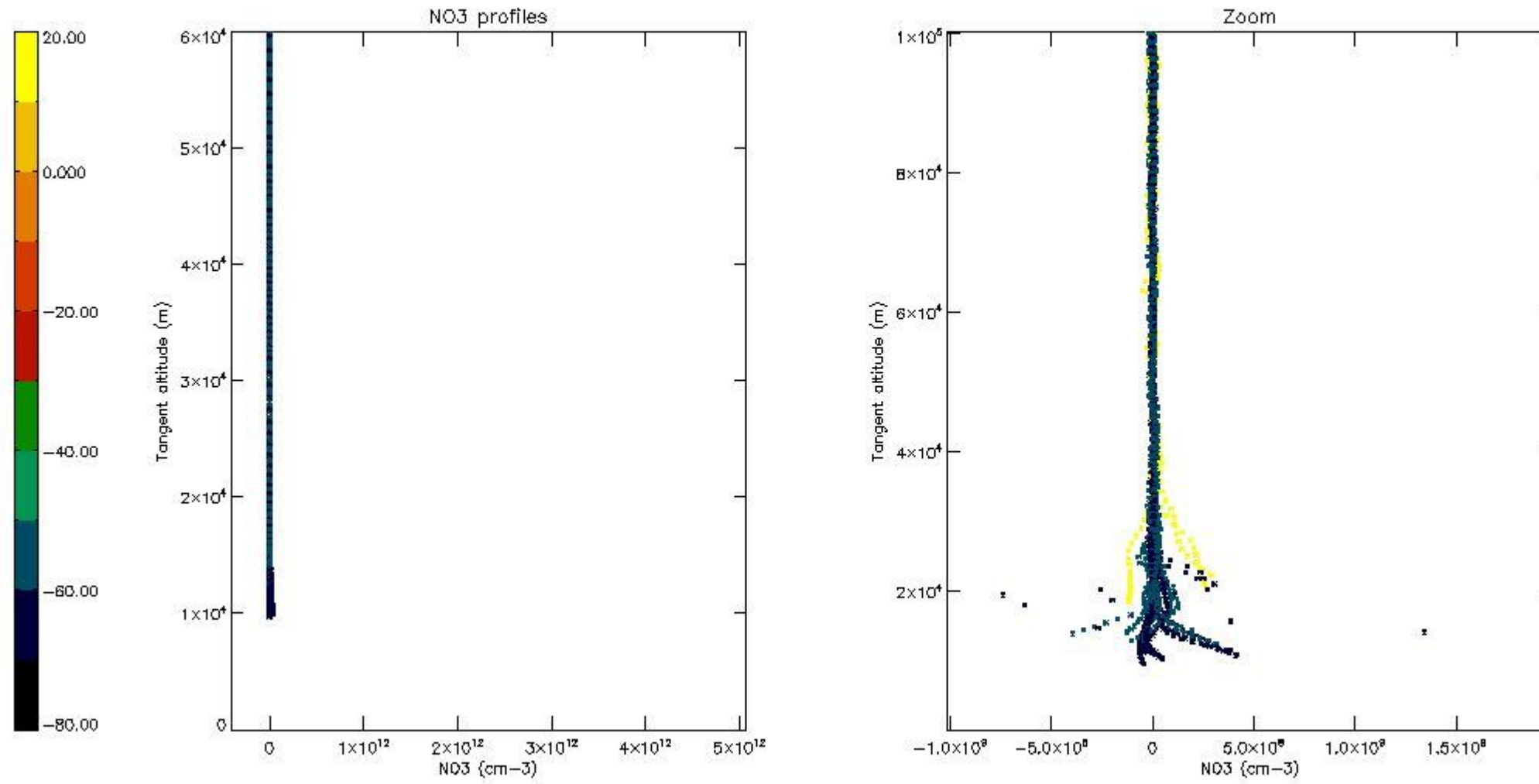
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

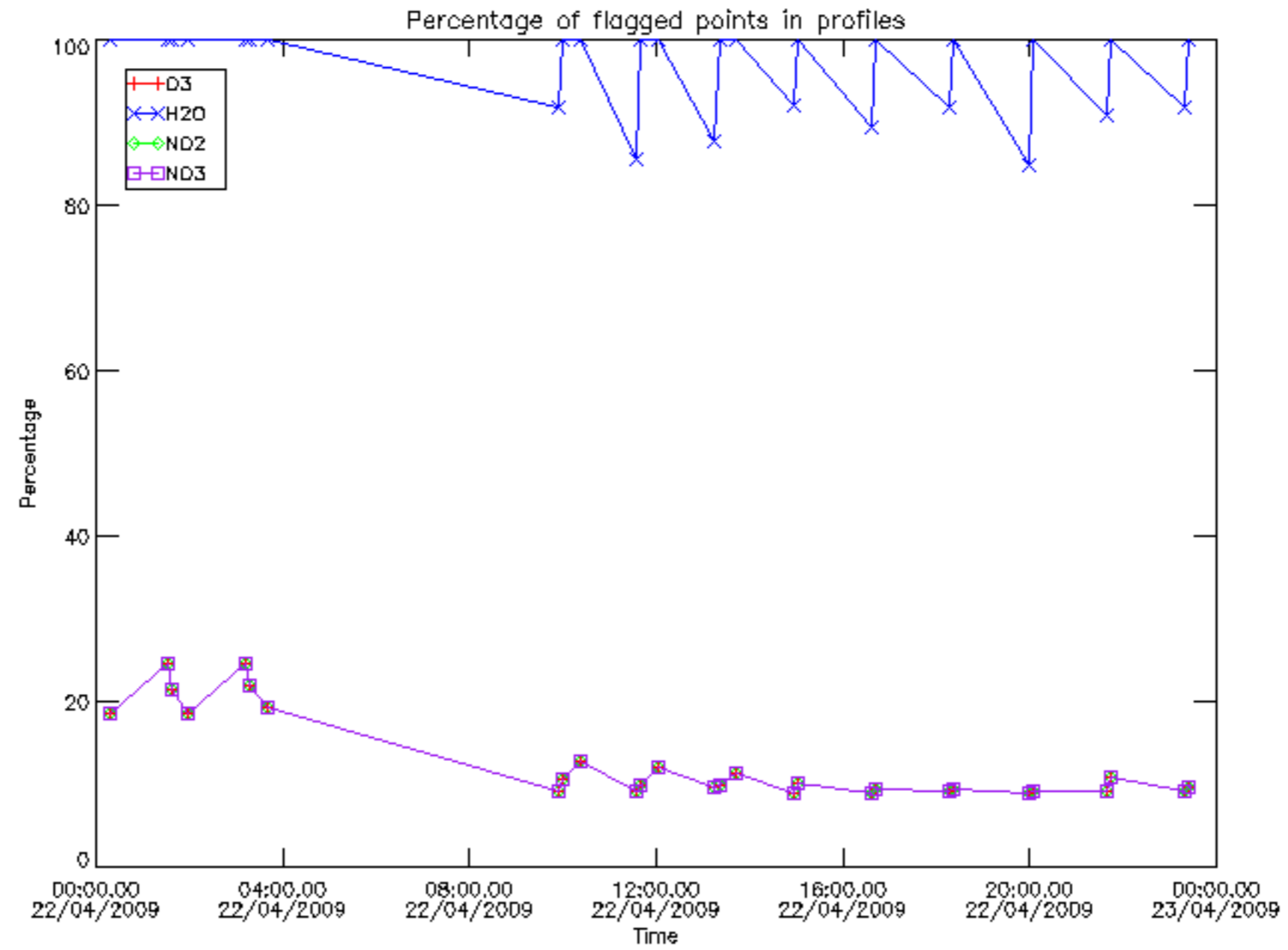
The colorbar represents the latitude.



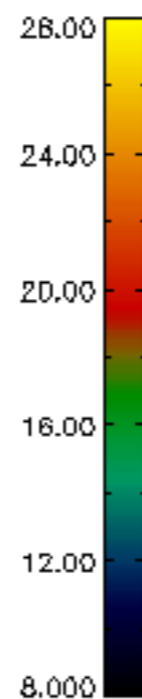
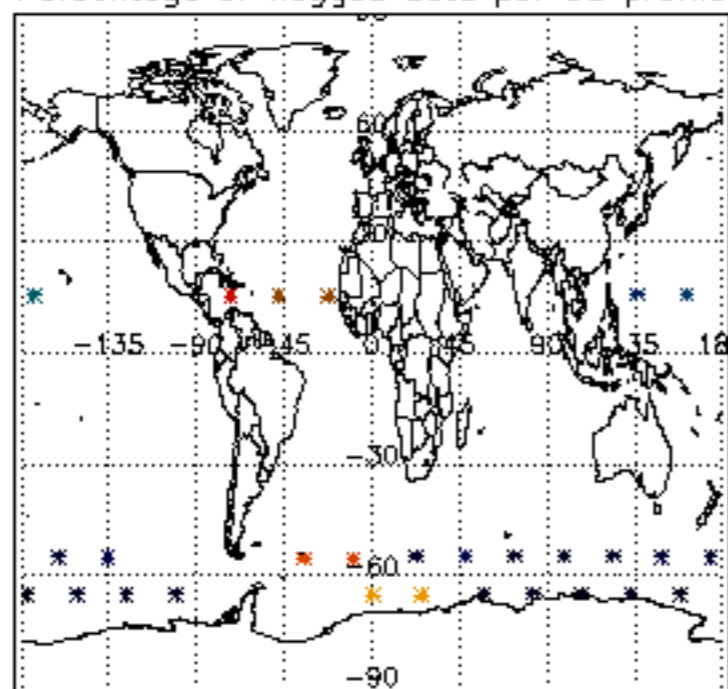
6. Auxiliary Data Files used for the production reported in section 2

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.

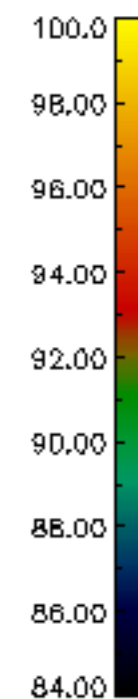
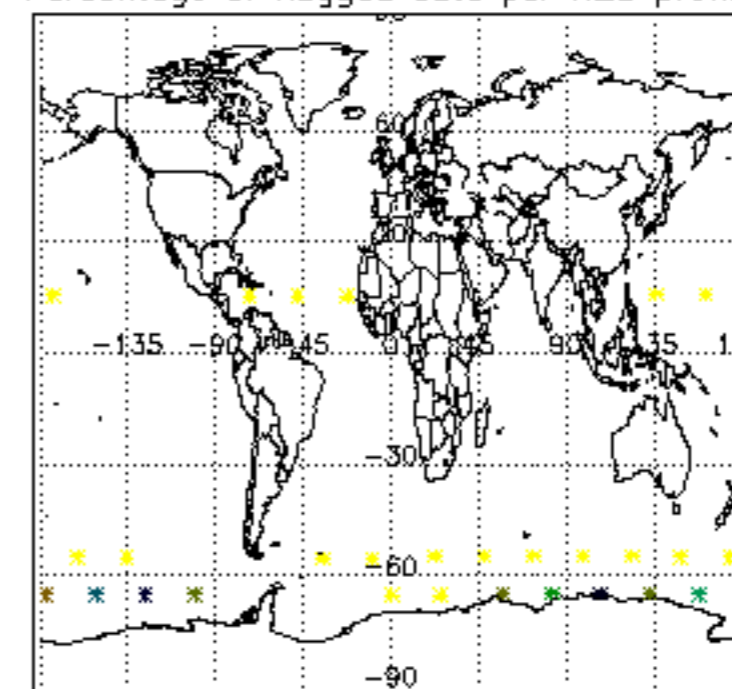
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-APR-2009 00:18:25
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-APR-2009 00:18:25
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-APR-2009 00:18:25



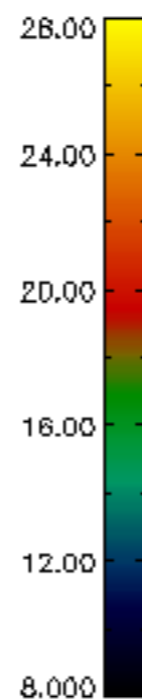
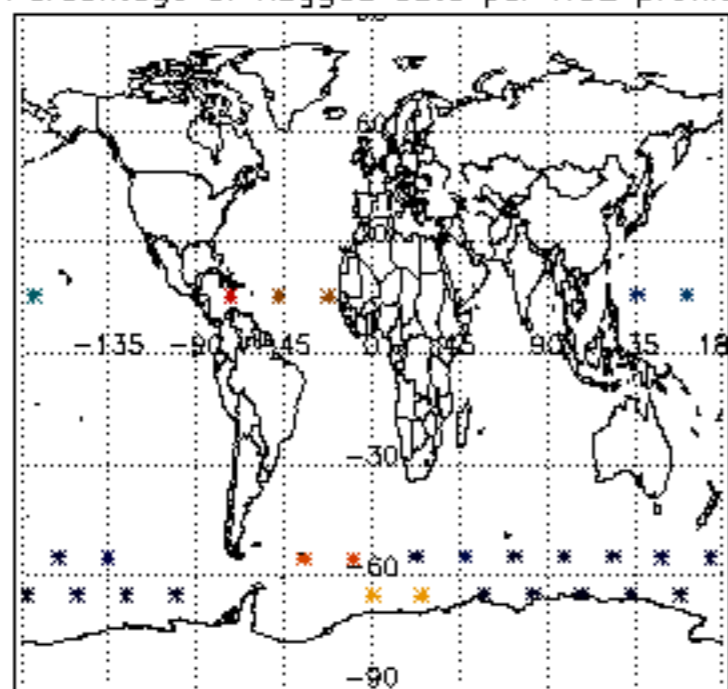
Percentage of flagged data per D3 profile



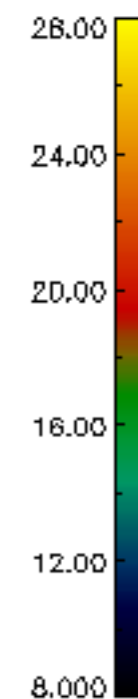
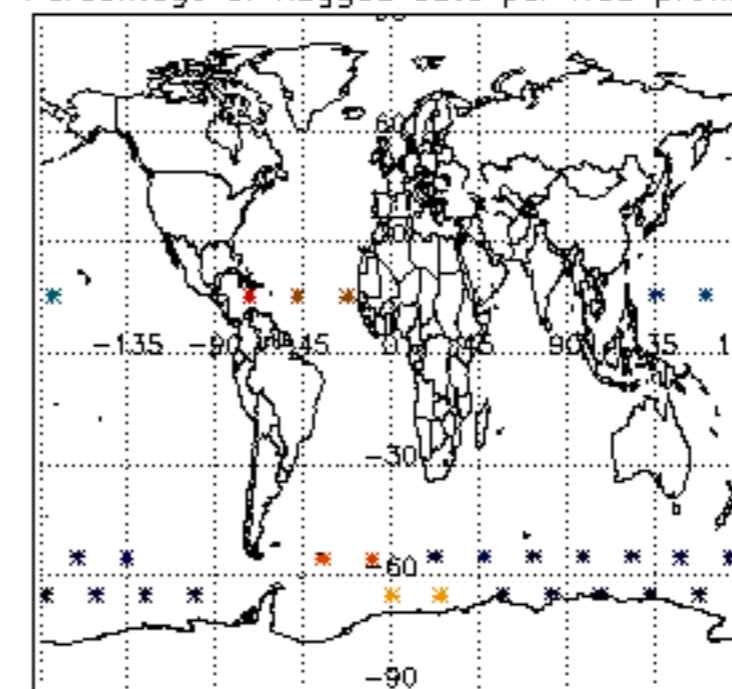
Percentage of flagged data per H2O profile

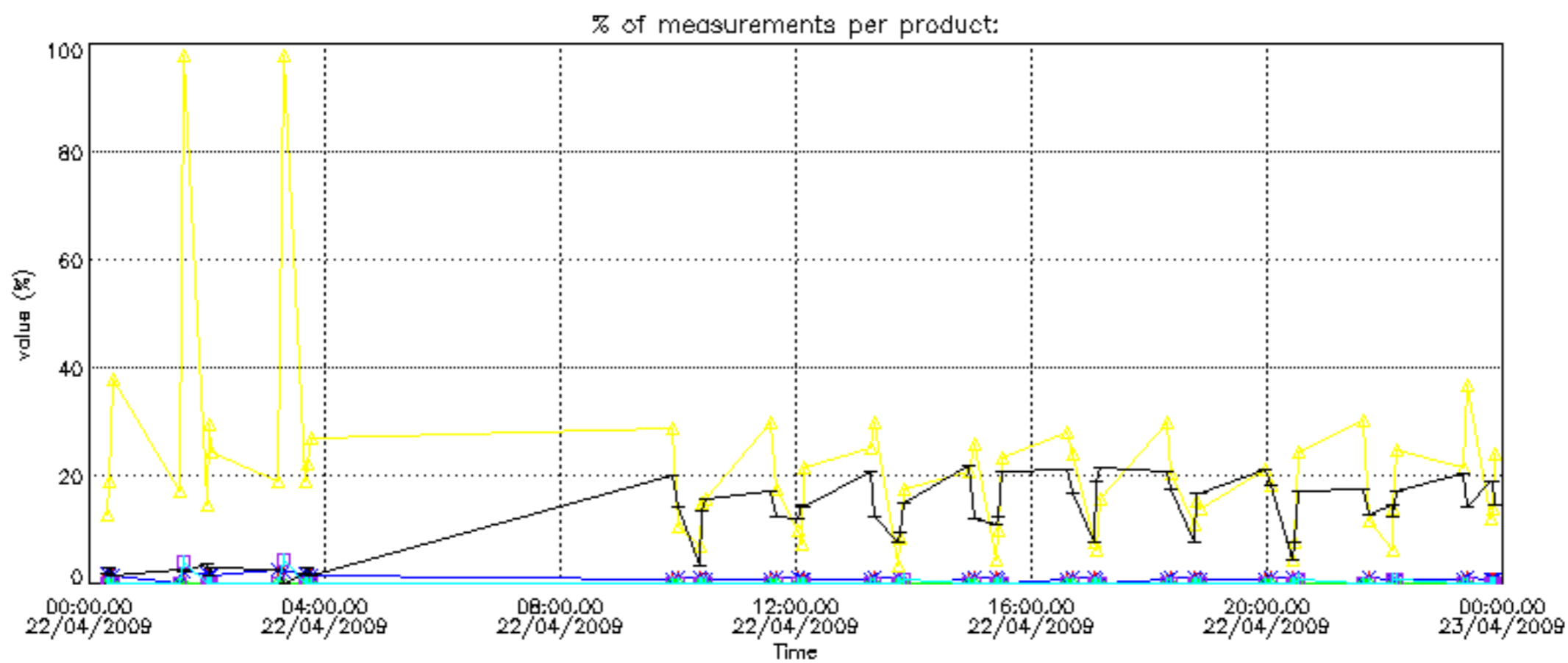


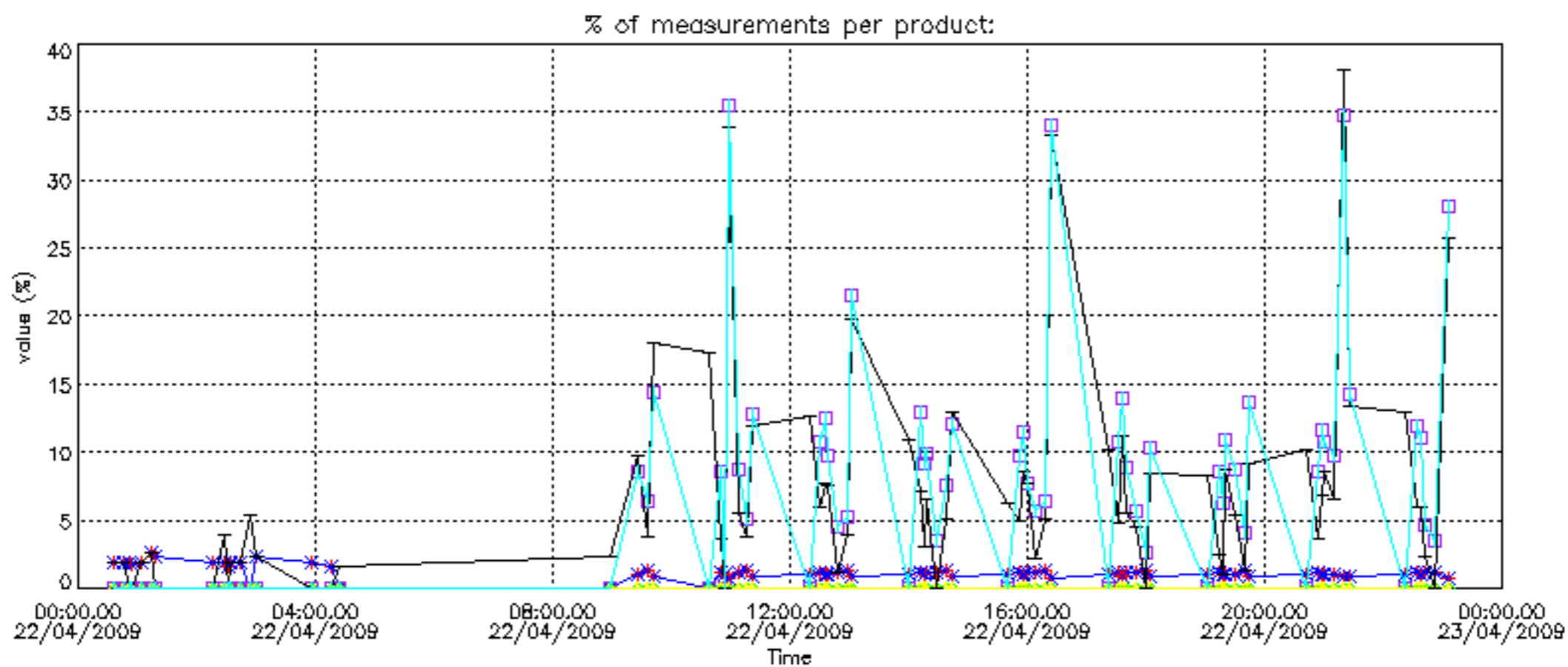
Percentage of flagged data per NO2 profile



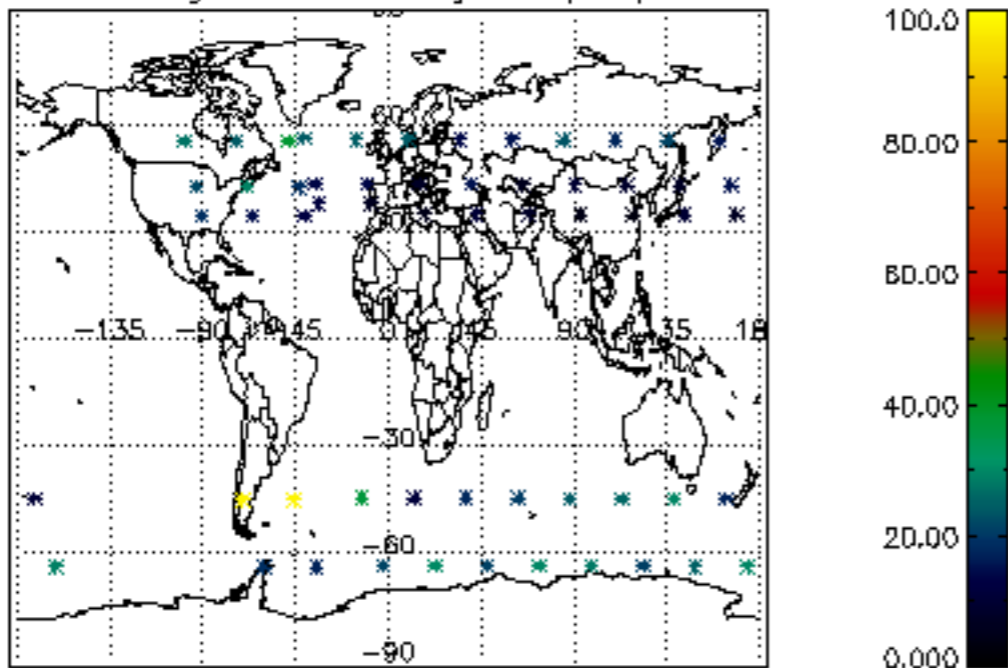
Percentage of flagged data per NO3 profile



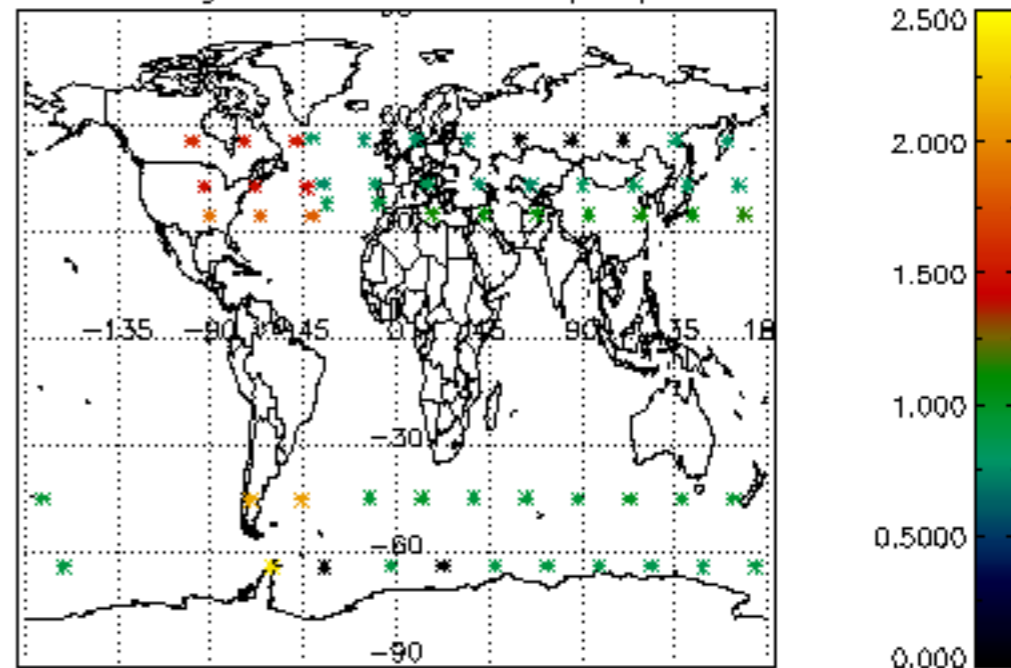




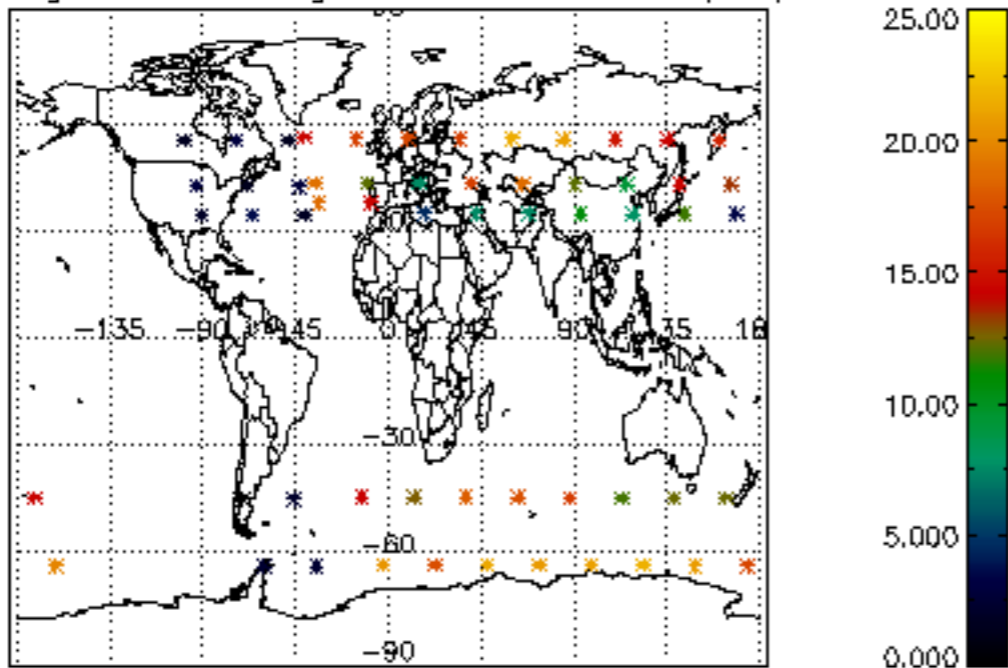
Percentage of cosmic ray hits per profile



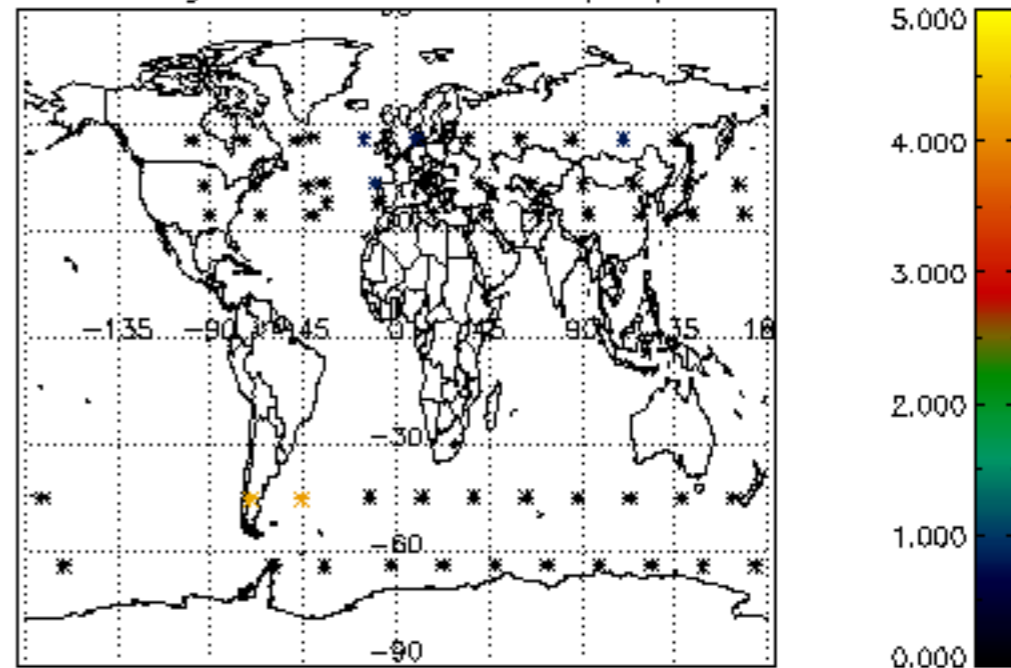
Percentage of datation errors per profile



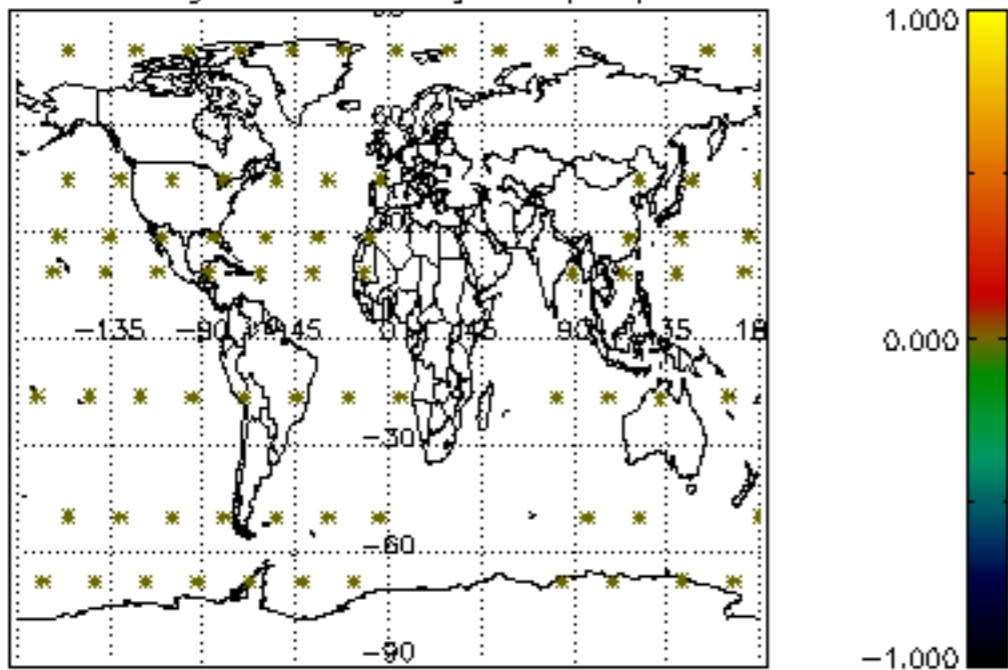
Percentage of star falling outside central band per profile



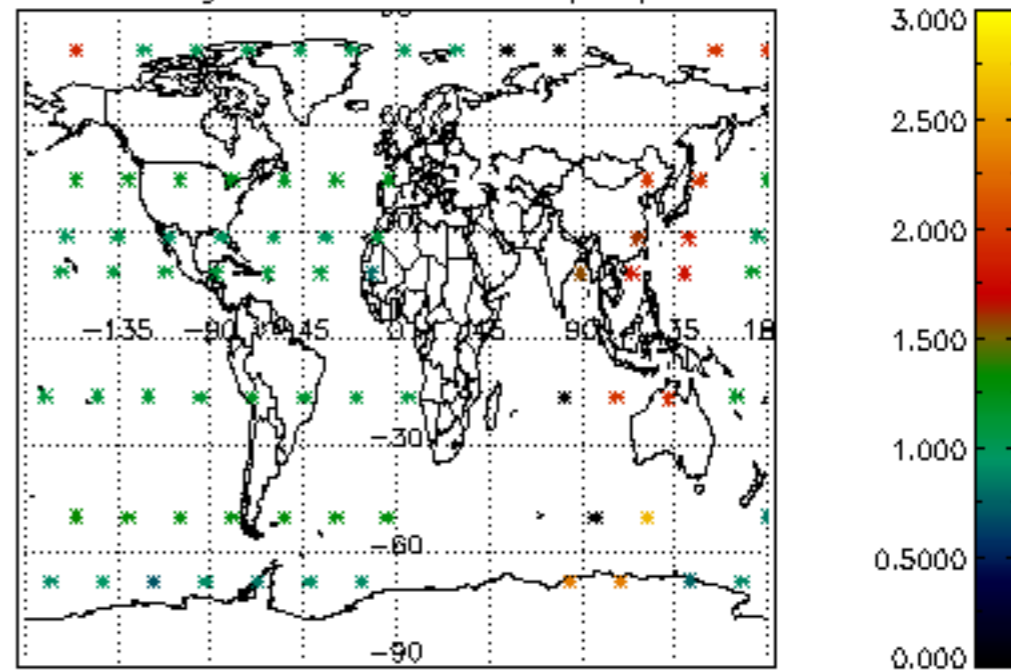
Percentage of saturation errors per profile



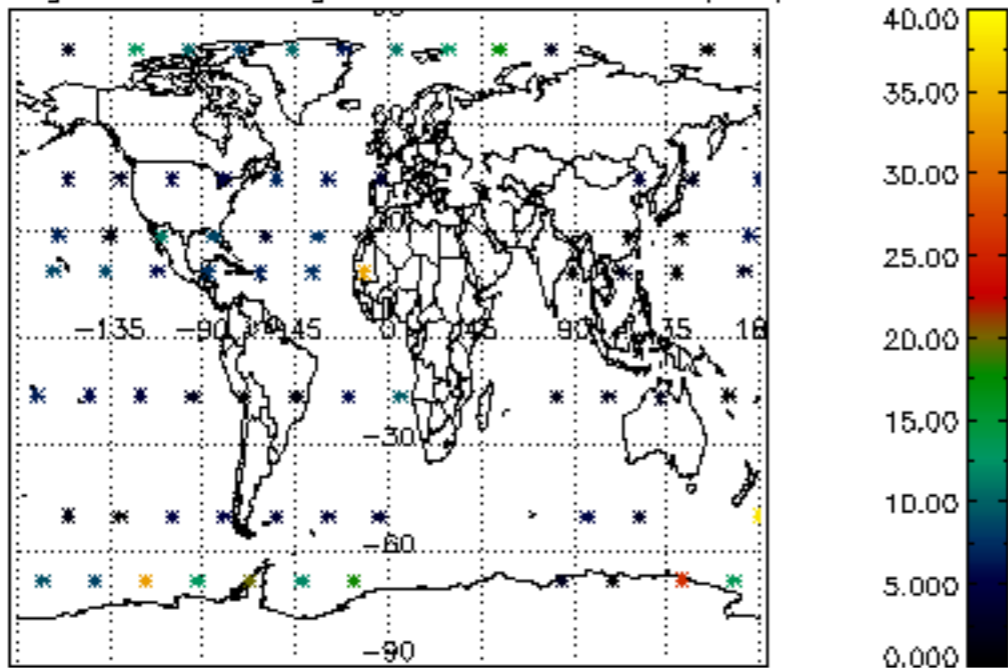
Percentage of cosmic ray hits per profile



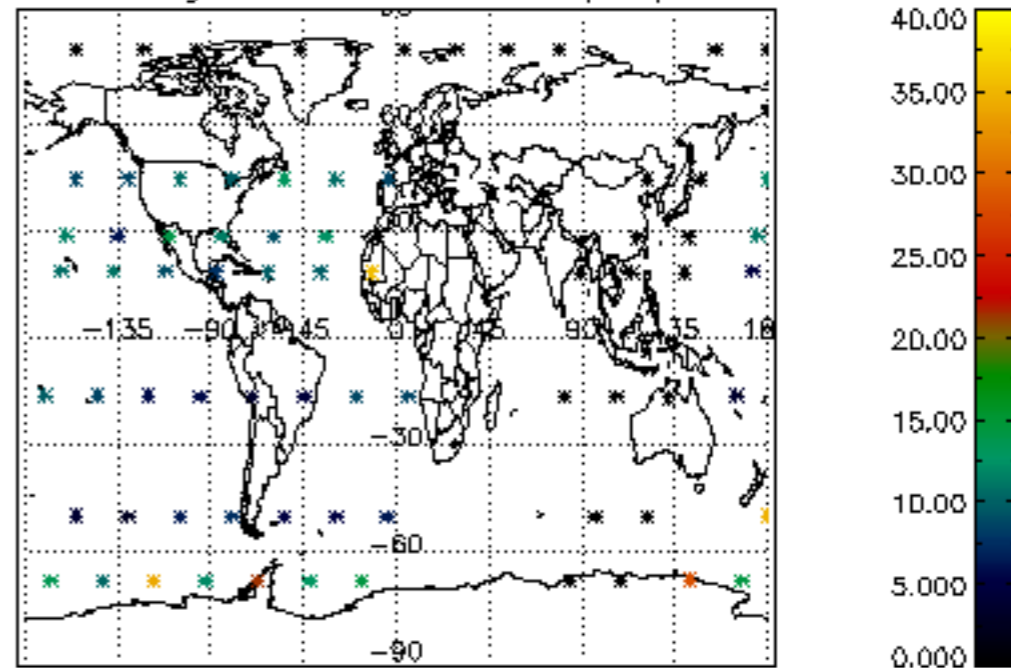
Percentage of datation errors per profile

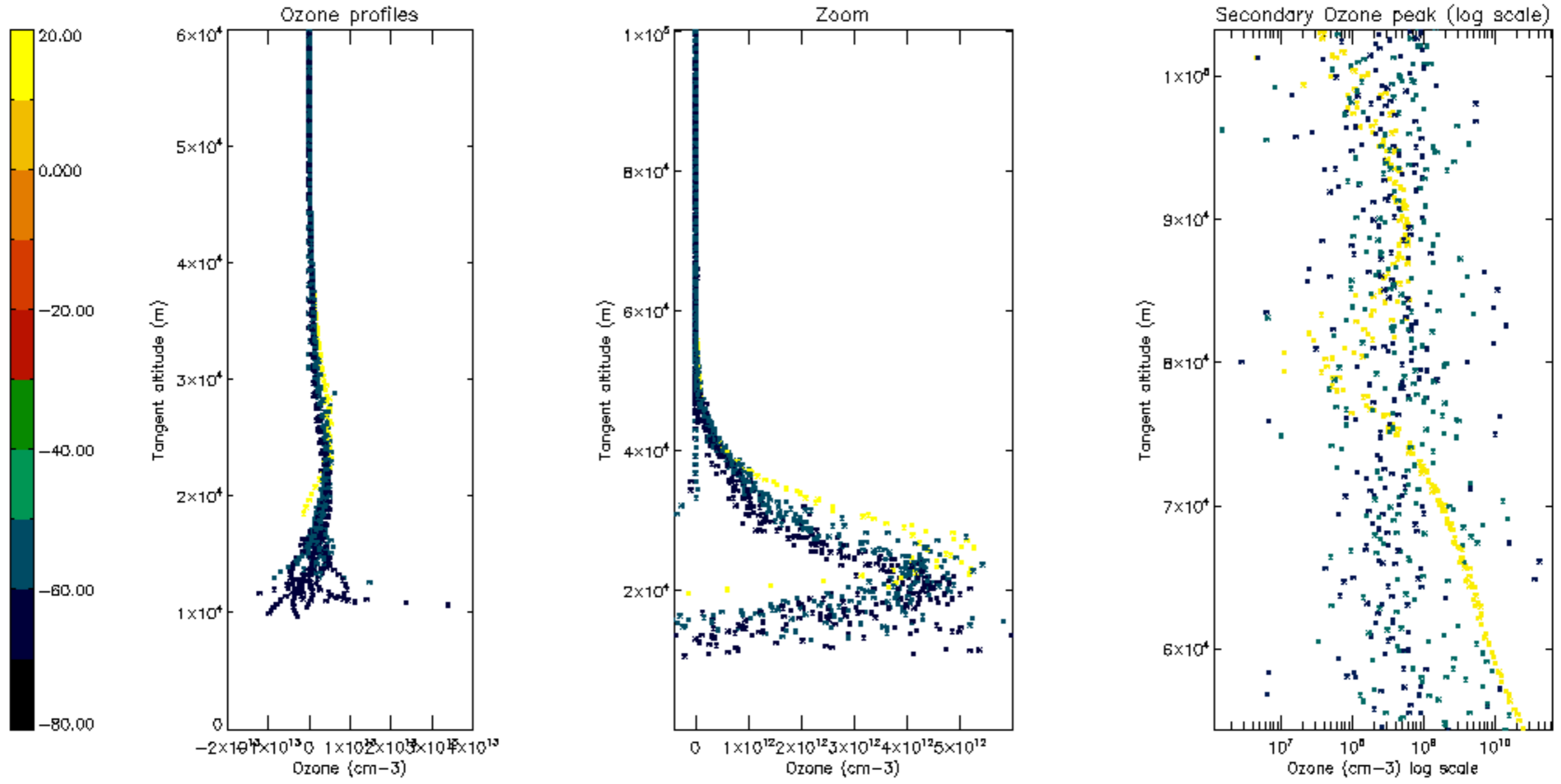


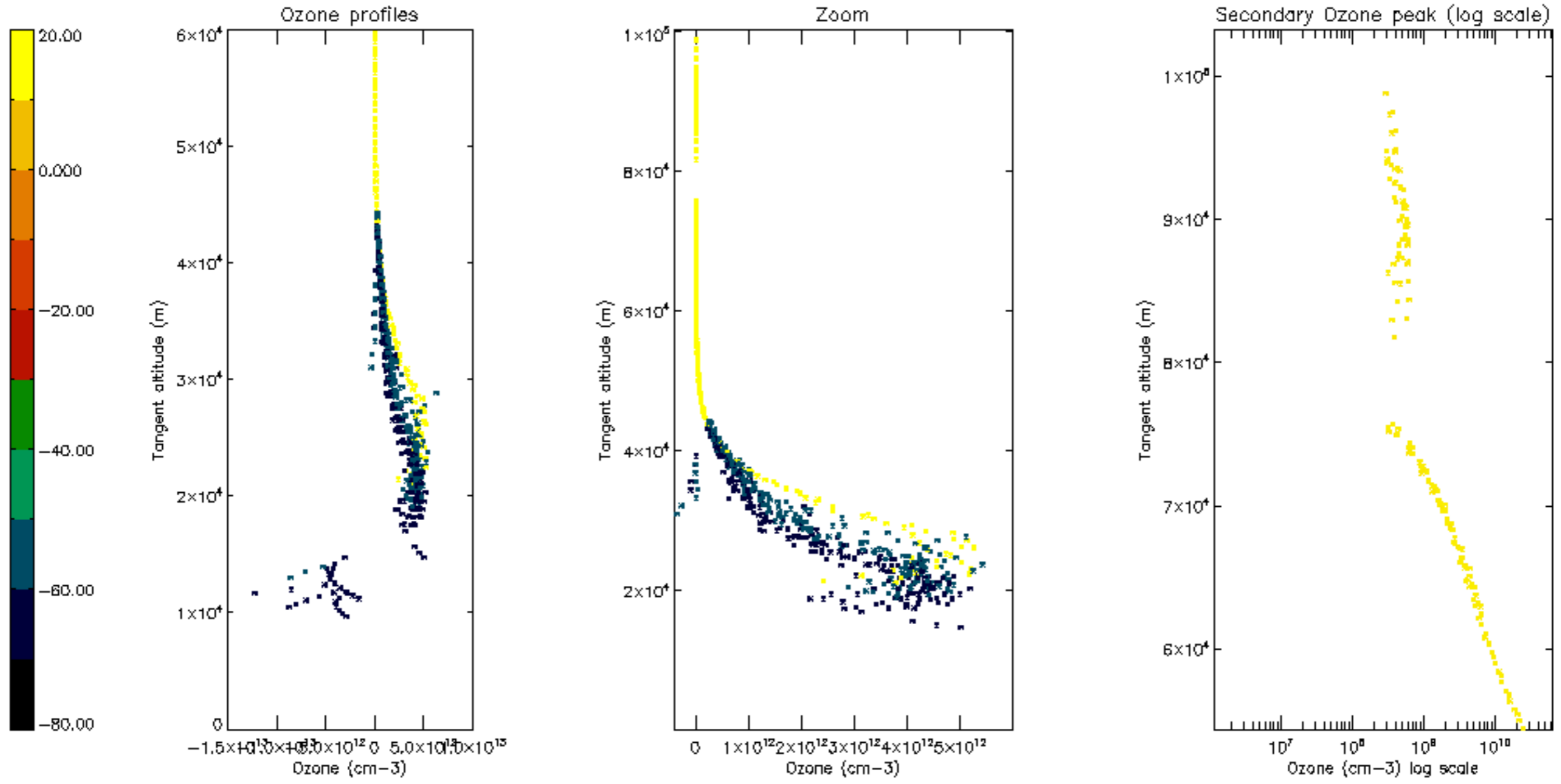
Percentage of star falling outside central band per profile

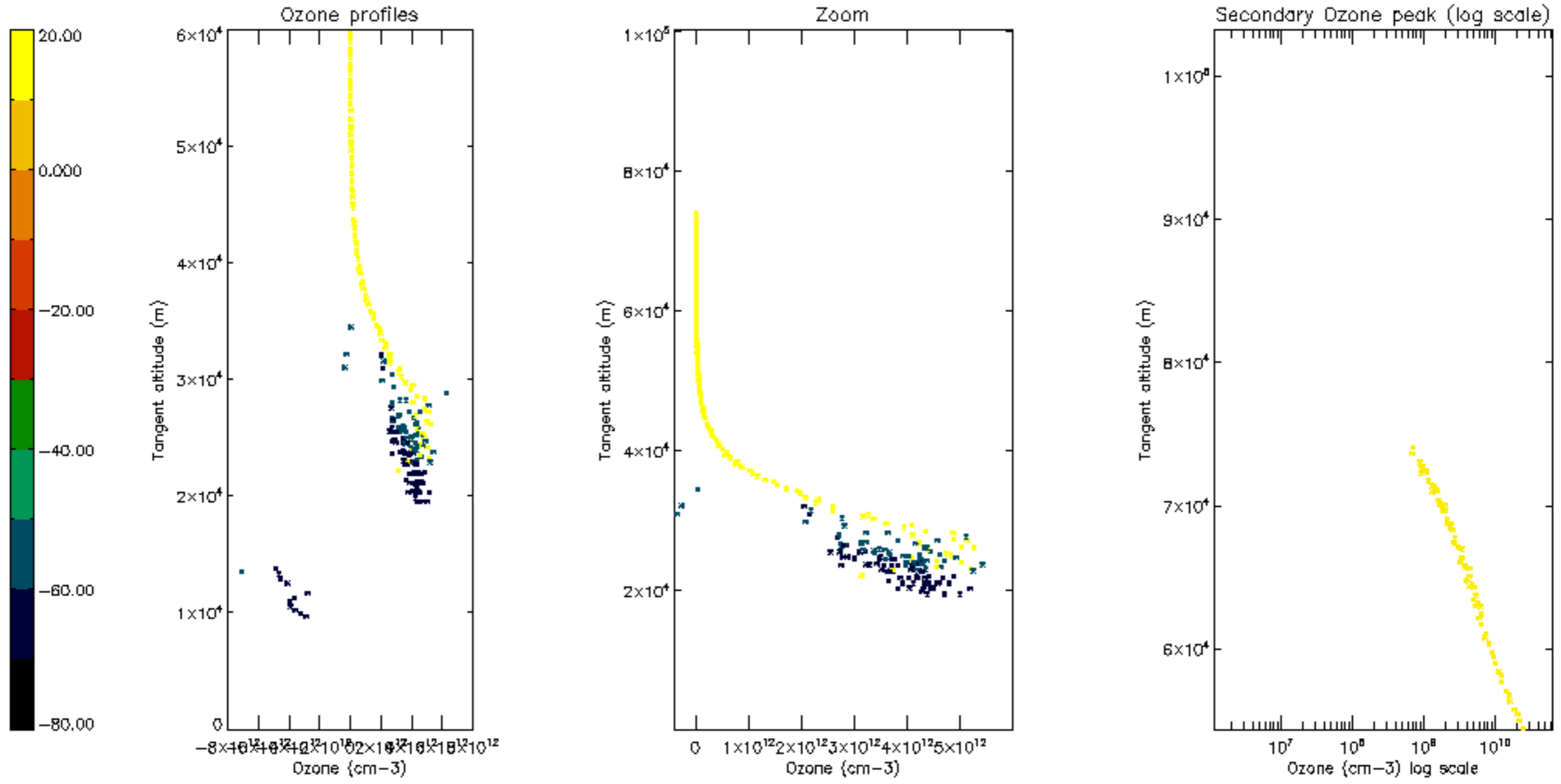


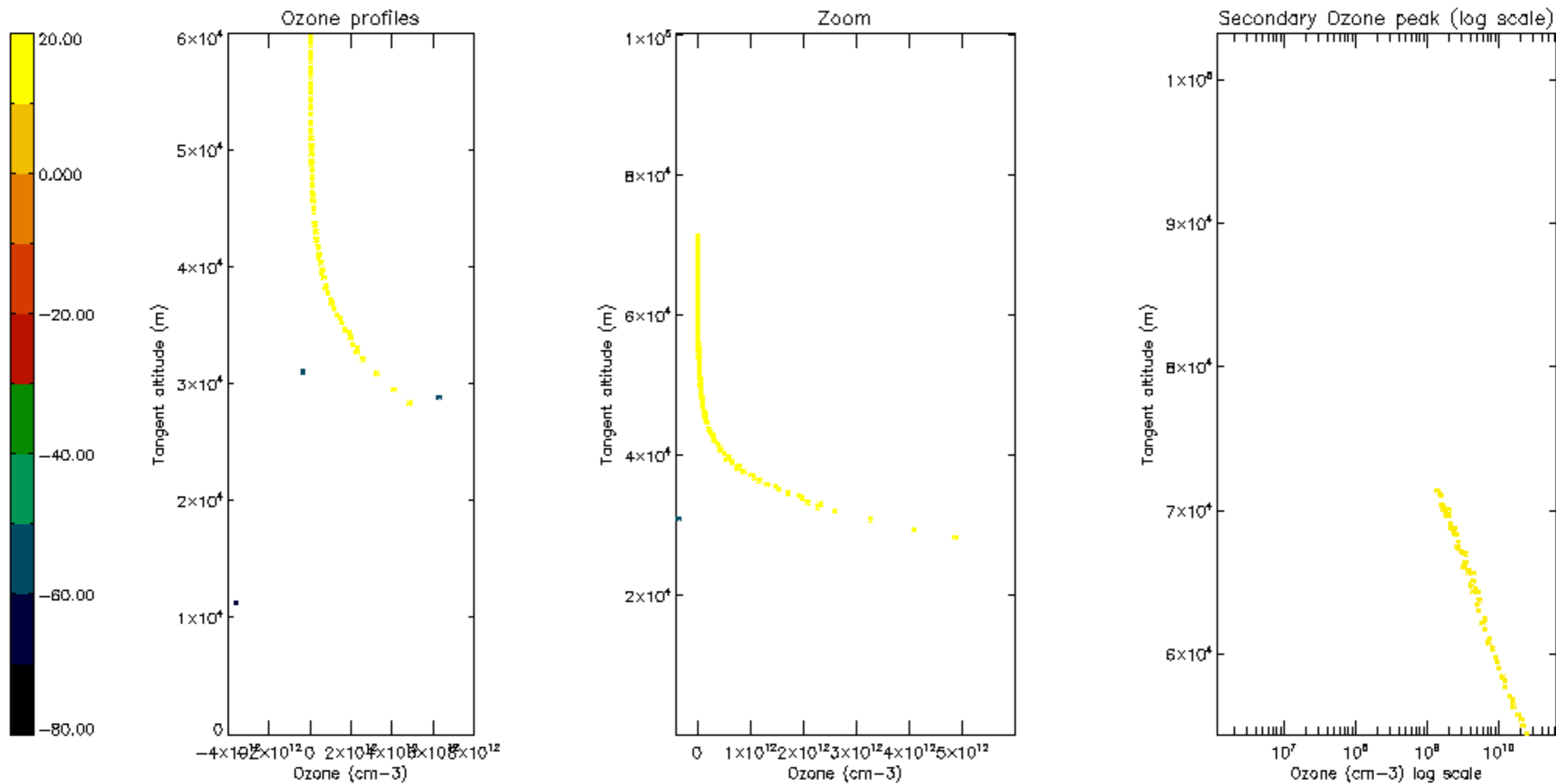
Percentage of saturation errors per profile

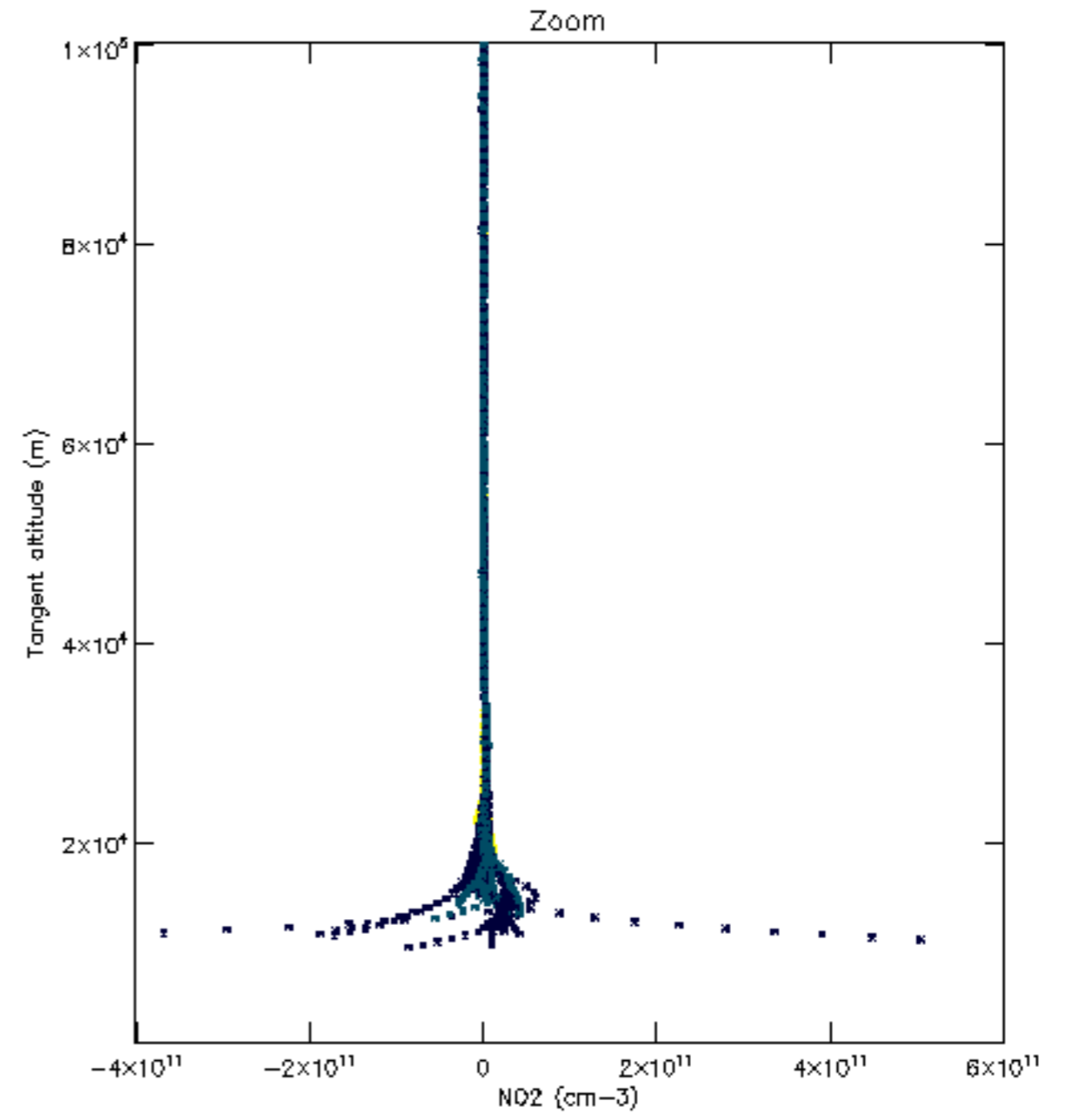
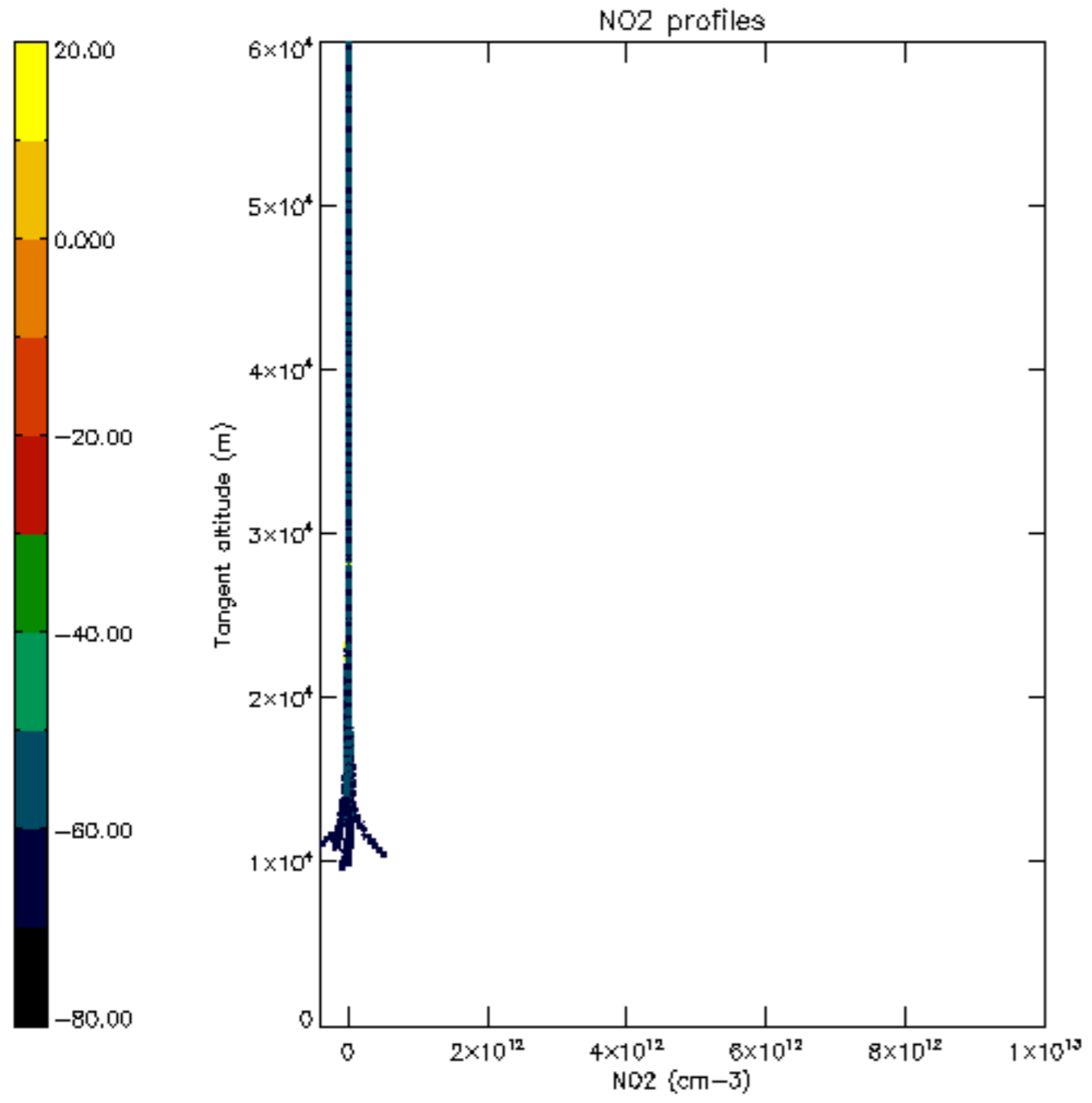


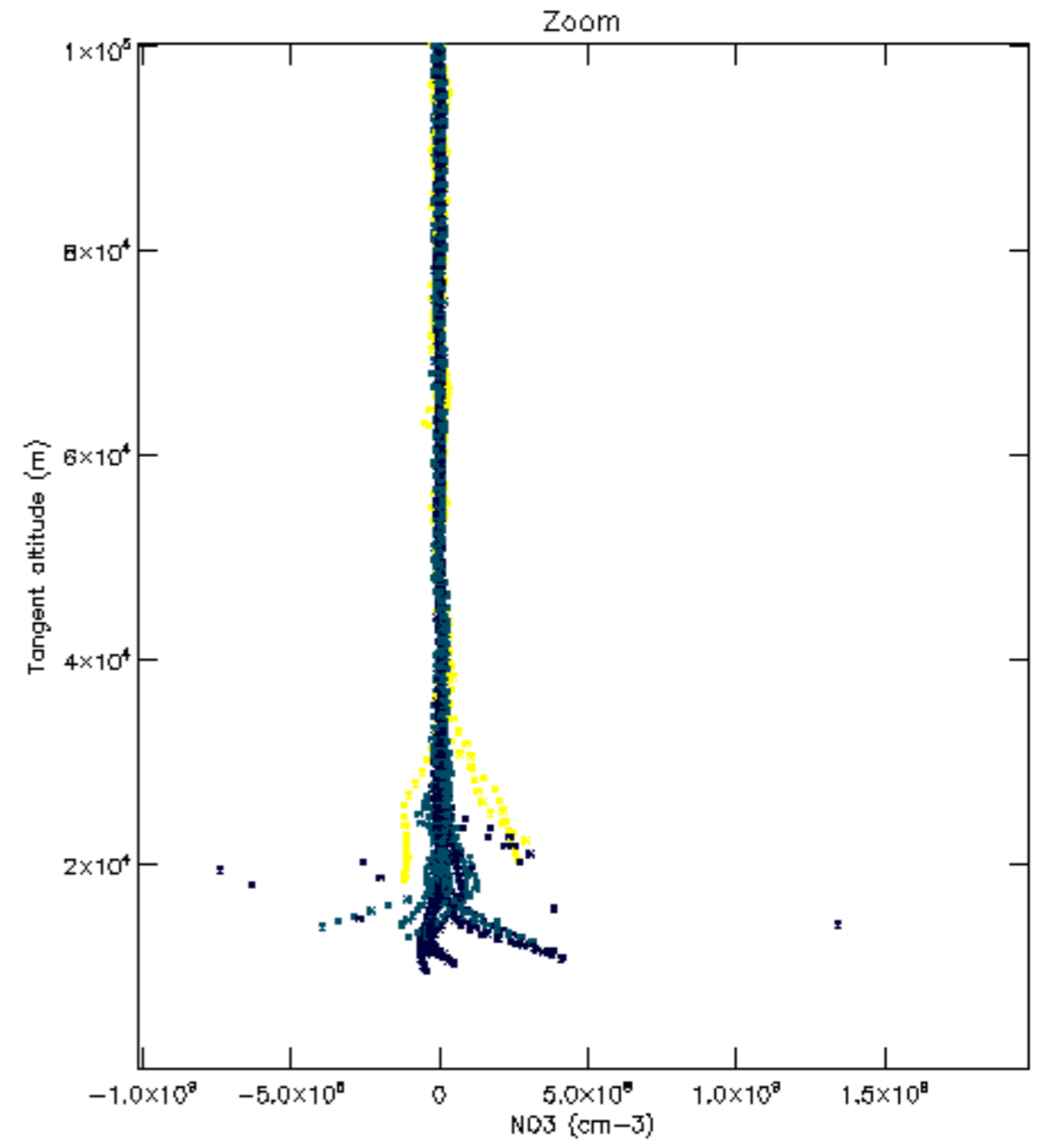
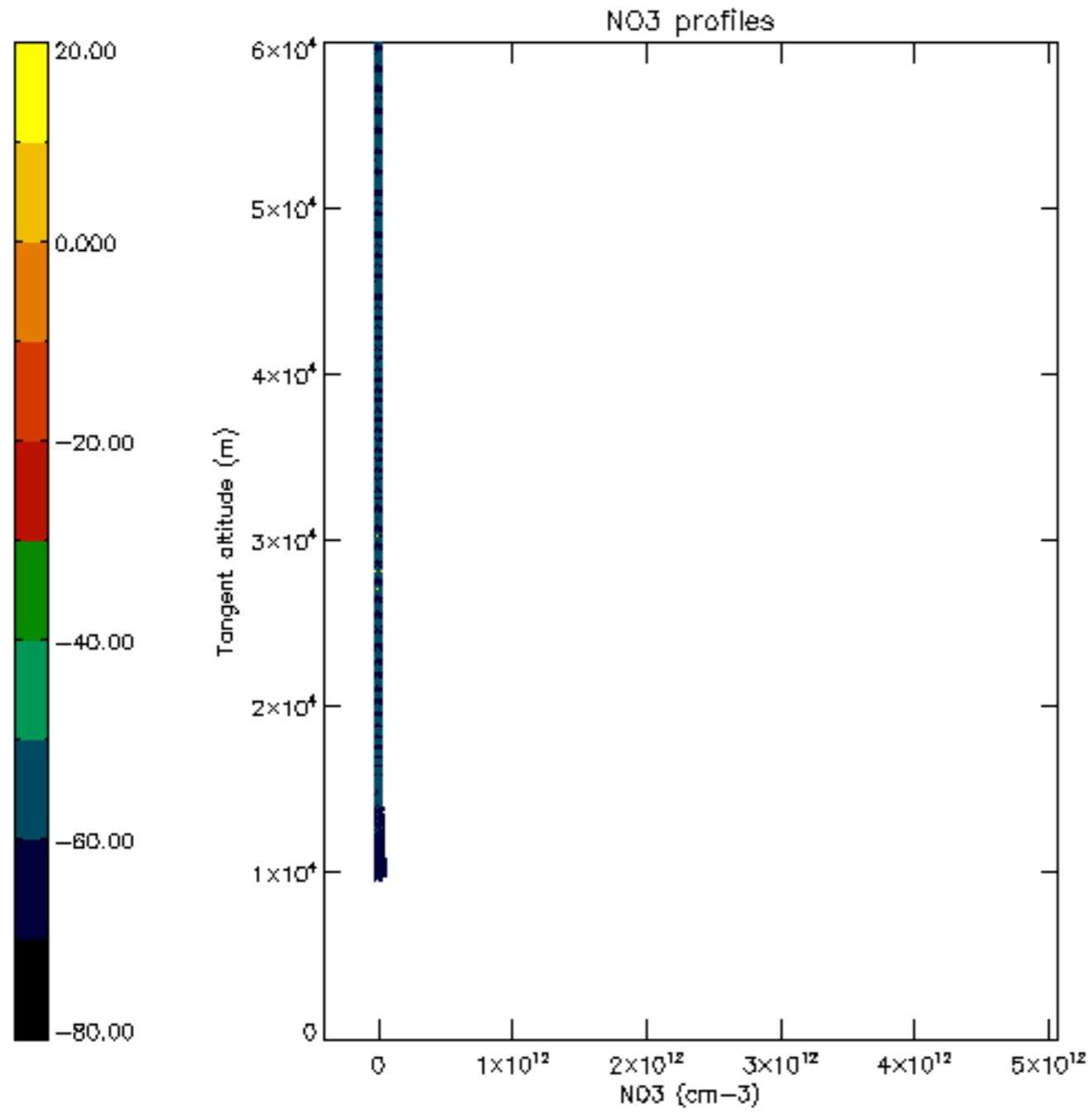


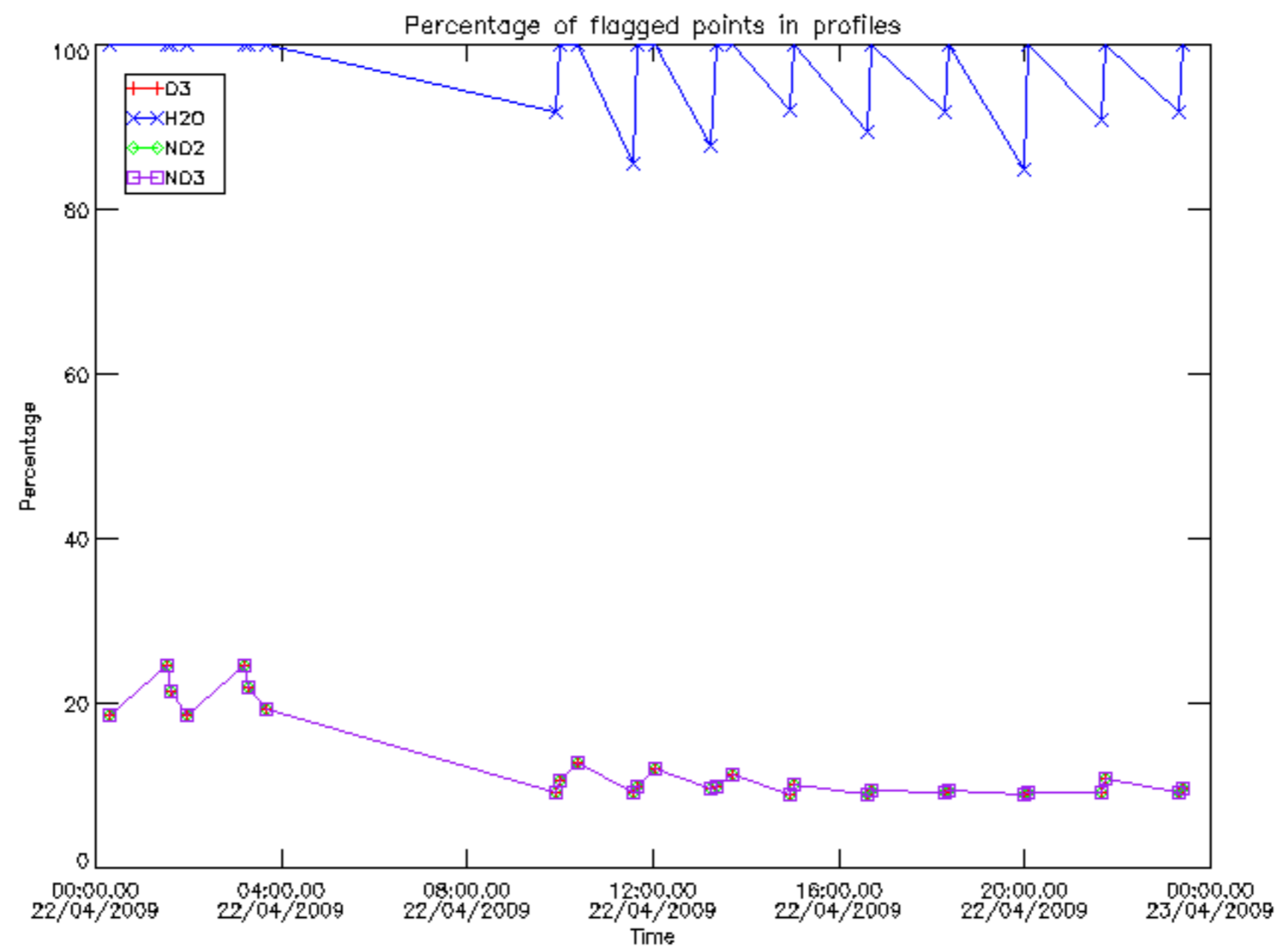




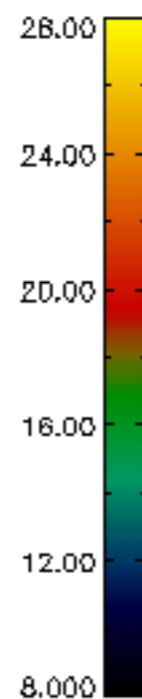
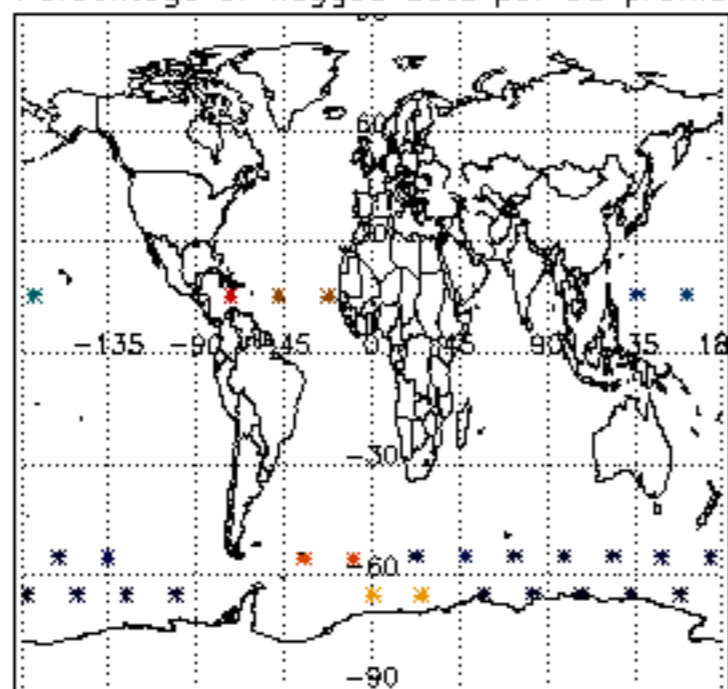




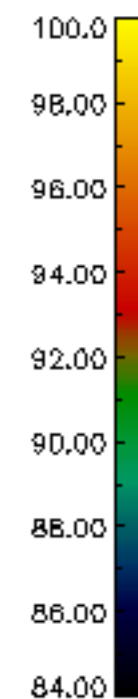
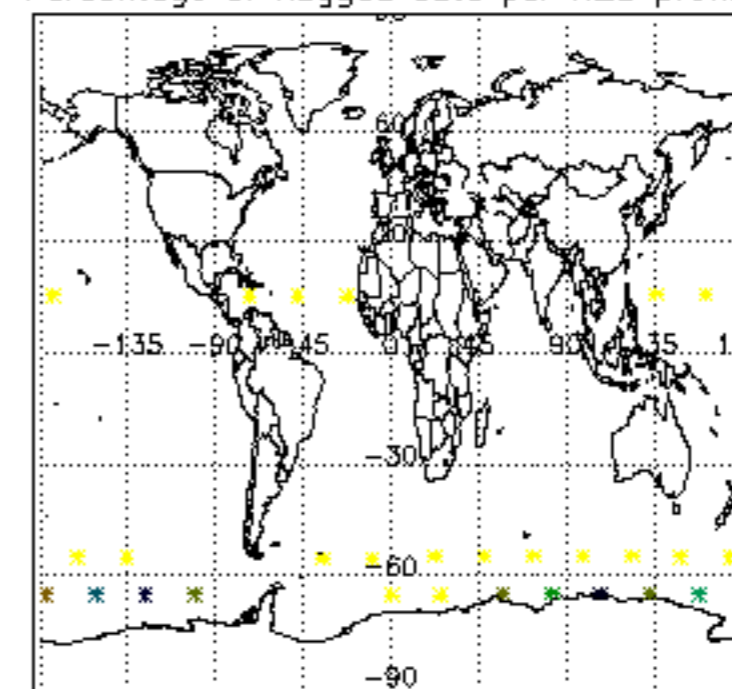




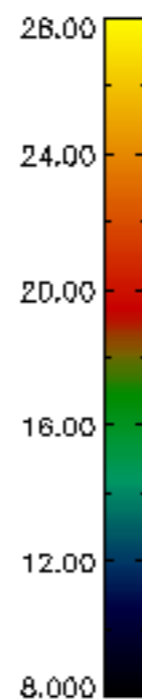
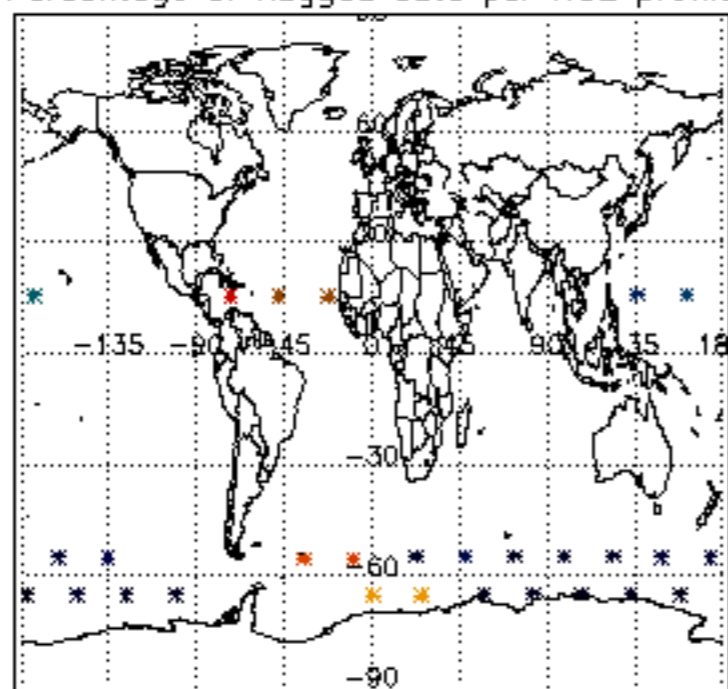
Percentage of flagged data per D3 profile



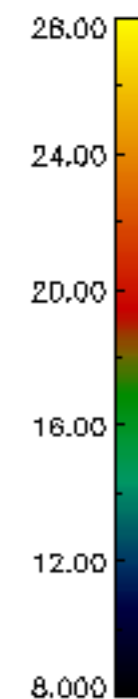
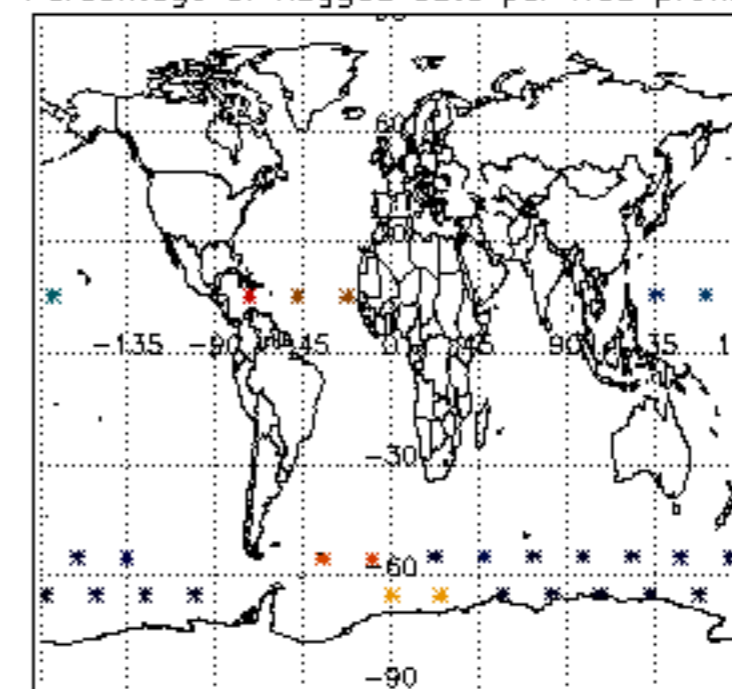
Percentage of flagged data per H2O profile

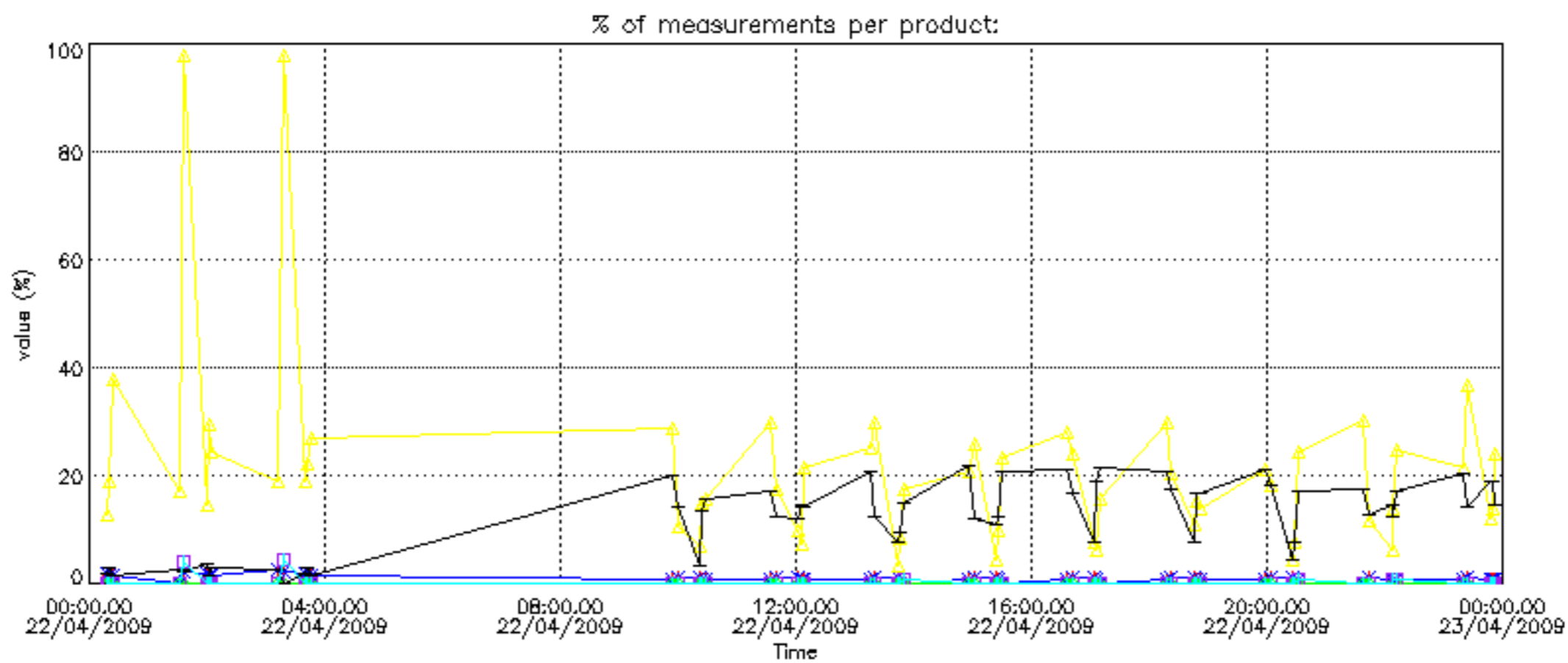


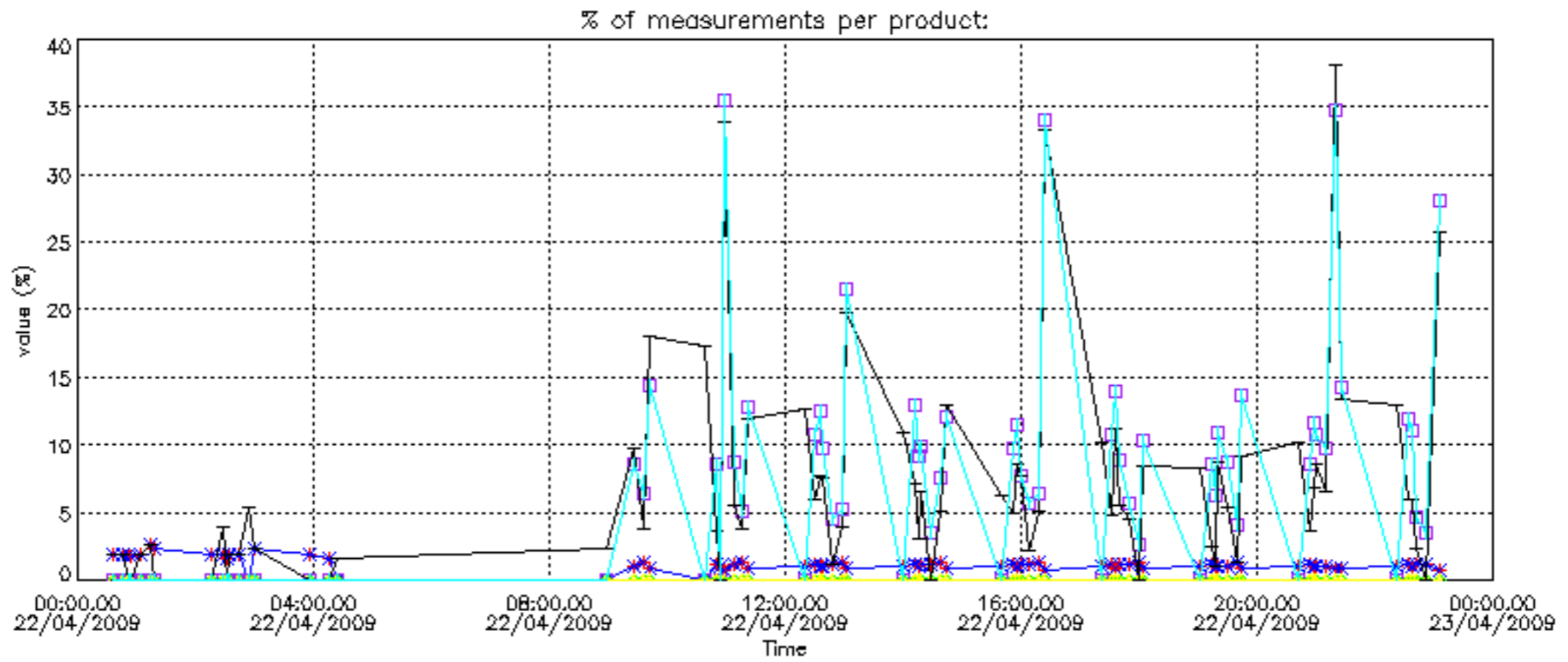
Percentage of flagged data per NO2 profile



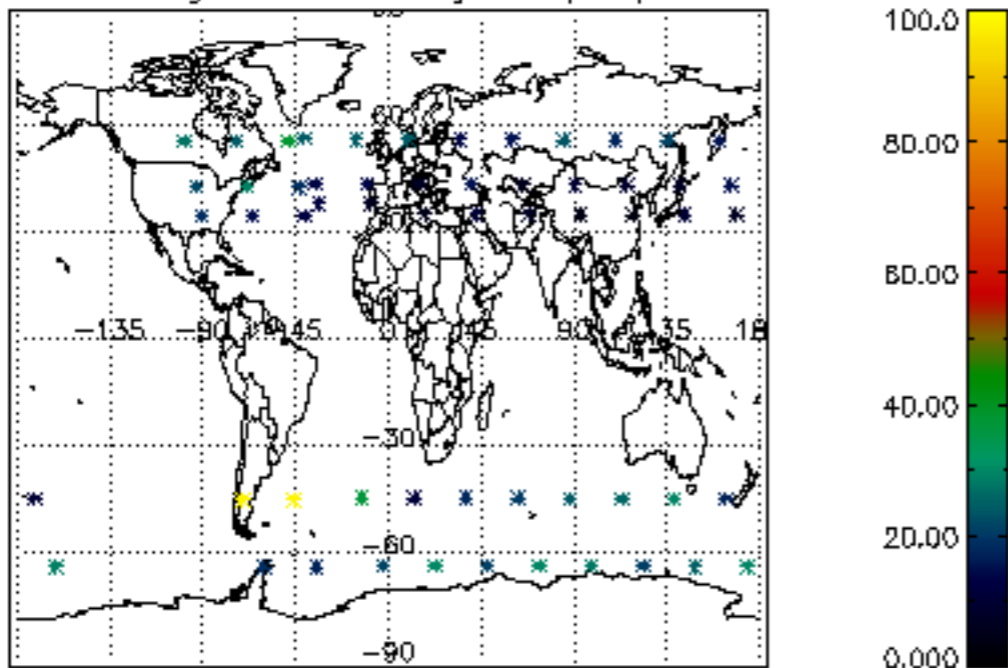
Percentage of flagged data per NO3 profile



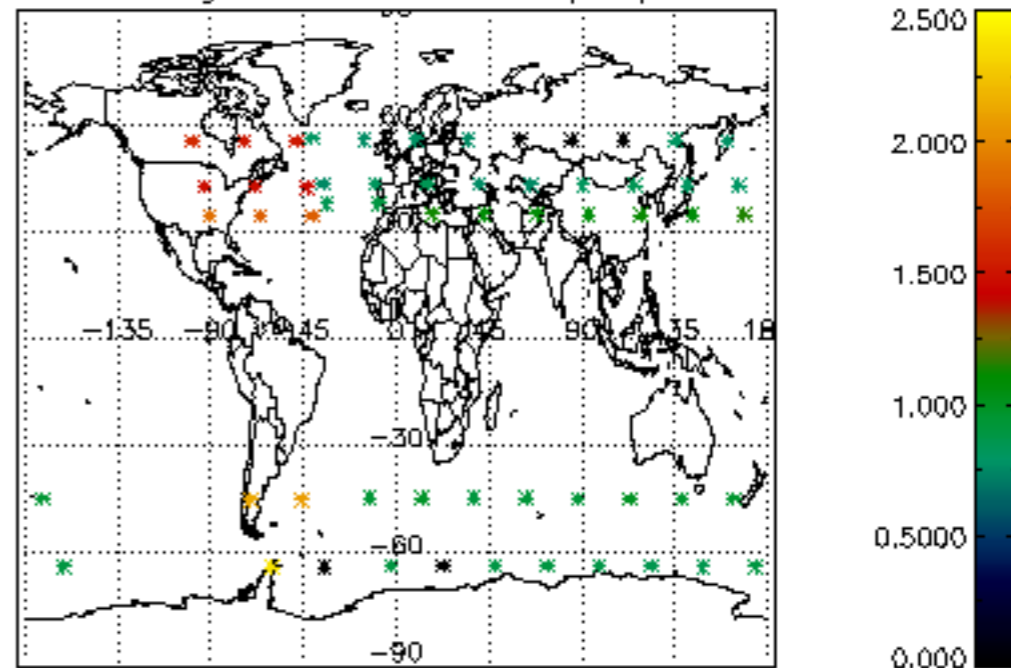




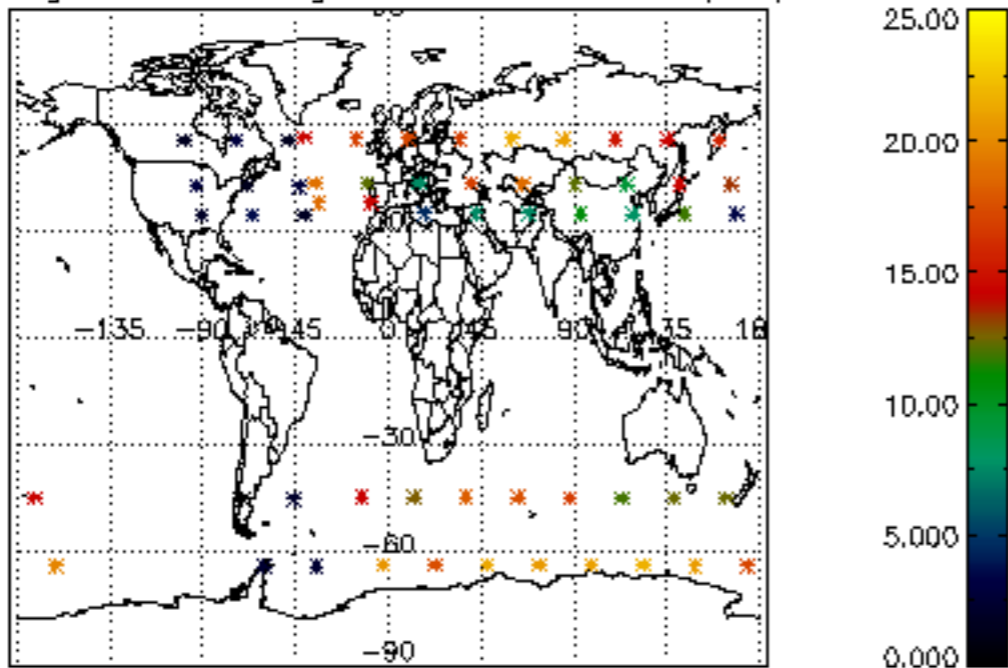
Percentage of cosmic ray hits per profile



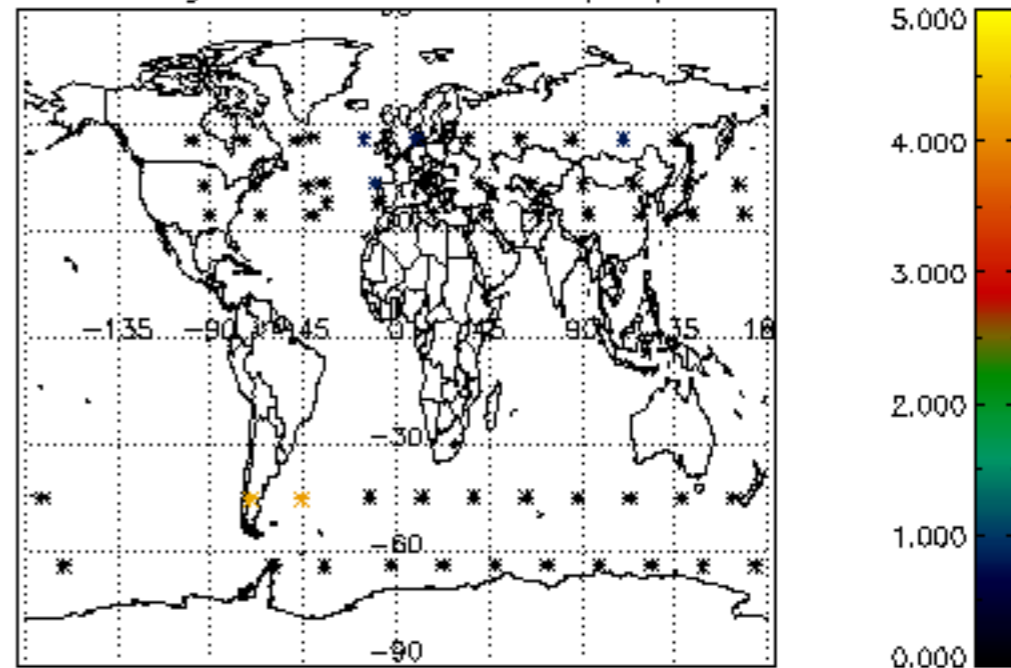
Percentage of datation errors per profile



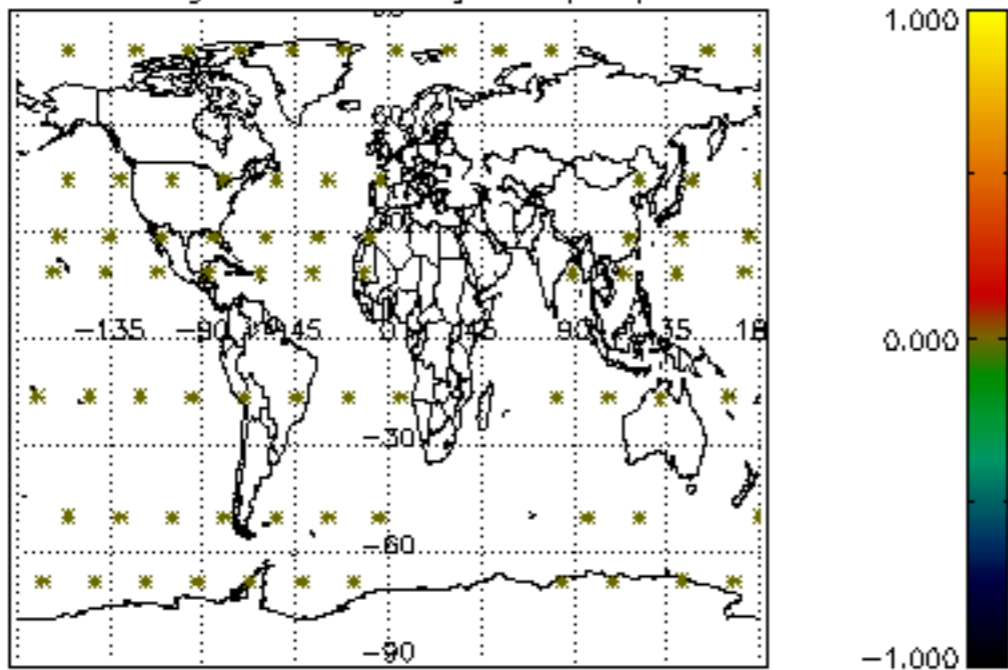
Percentage of star falling outside central band per profile



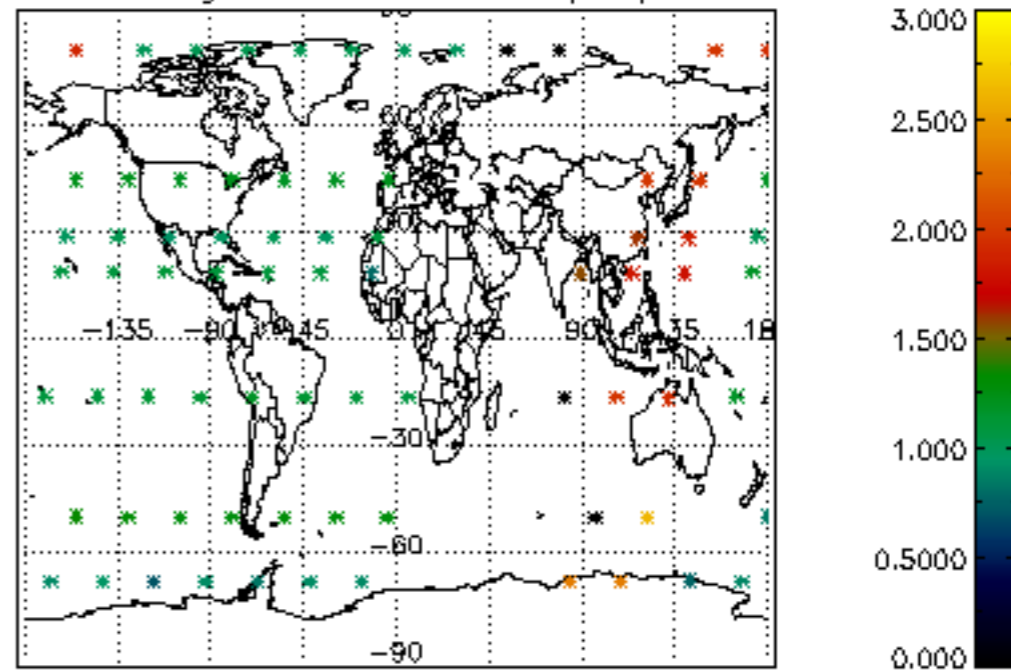
Percentage of saturation errors per profile



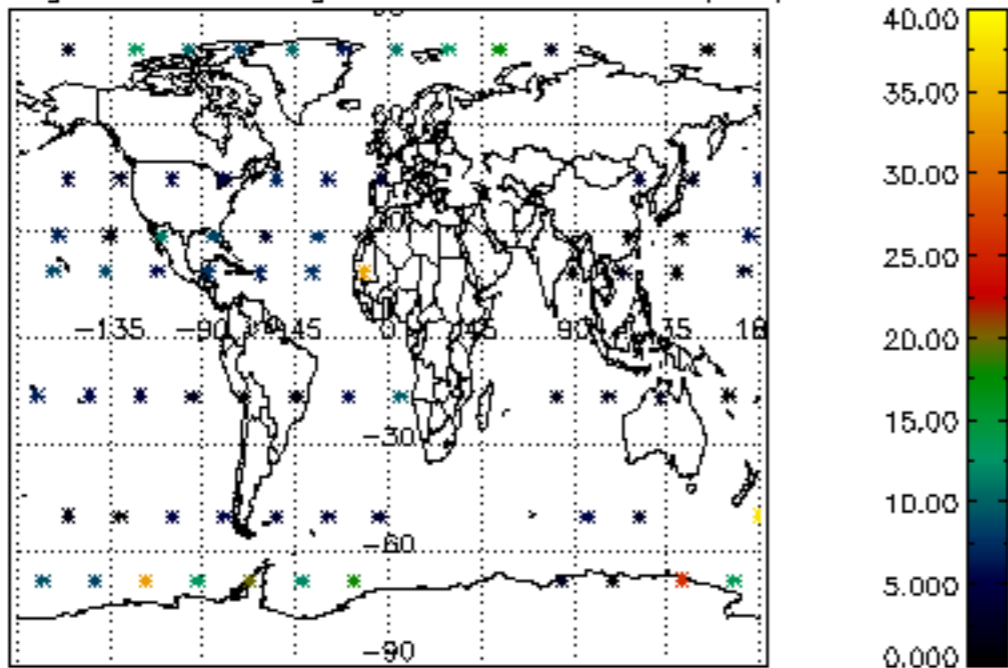
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

