

GOMOS Level 2 Daily Report

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

Item	Value
Time of report generation	24APR2013 12:00:14
Data source version	GOMOS/6.01
Start time of products	03-04-2011 (03APR2011 00:00:00)
Stop time of products	04-04-2011 (04APR2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	176
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

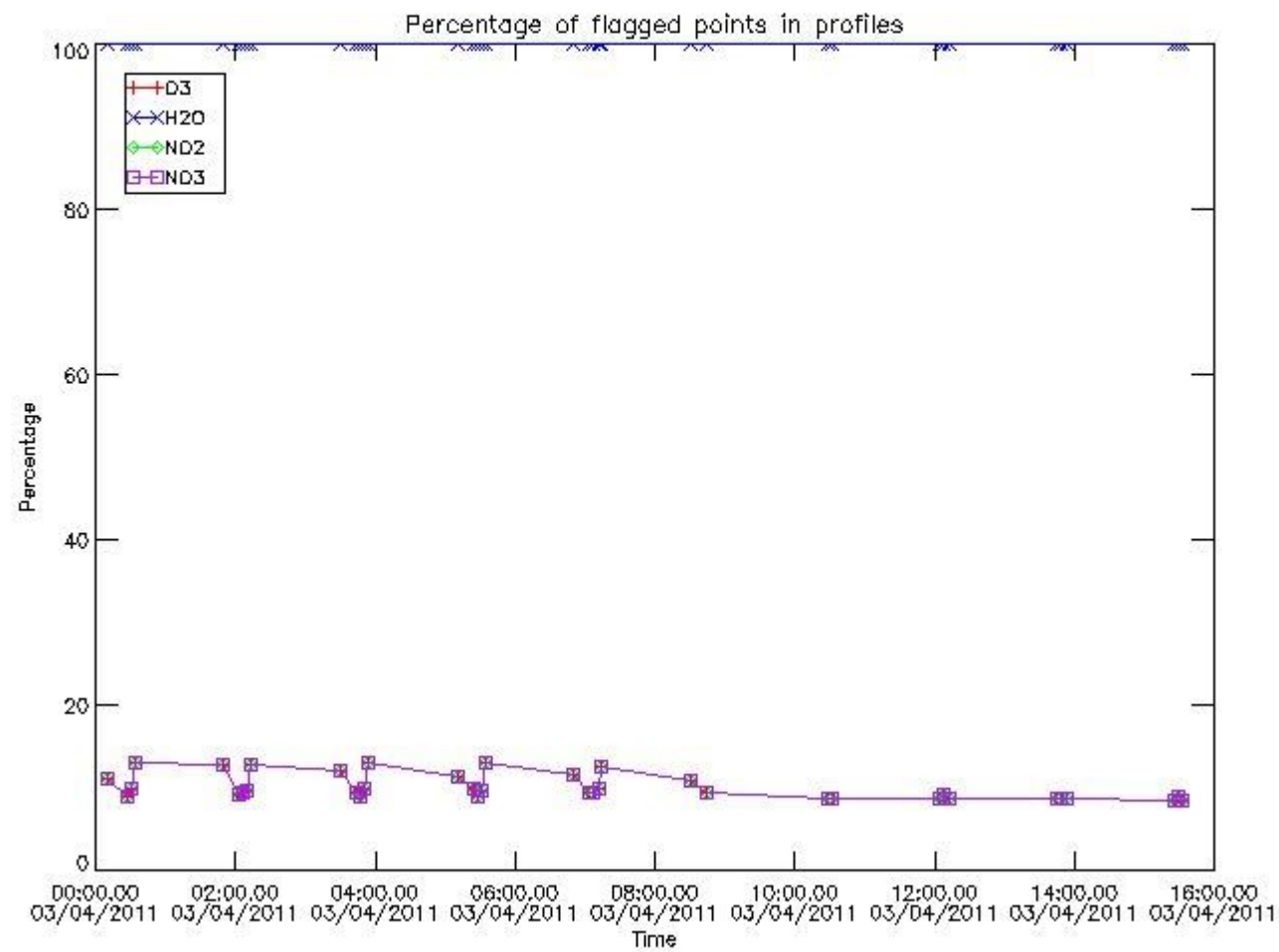
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110403_000455_000000473101_00102_47530_8274.N1	03-APR-2011 00:04:55	Twilight	46.500	61	8Eps Peg	2.1000	3900.0	93	47530	No
2	GOM_NL__2PRFIN20110403_000932_000000453101_00102_47530_8275.N1	03-APR-2011 00:09:32	Dark	45.000	154	22Bet Aqr	2.8990	5700.0	90	47530	No
3	GOM_NL__2PRFIN20110403_002642_000000583101_00103_47531_8255.N1	03-APR-2011 00:26:42	Dark	57.500	38	20Eps Sgr	1.8360	11000.	115	47531	No
4	GOM_NL__2PRFIN20110403_003021_000000523101_00103_47531_8256.N1	03-APR-2011 00:30:21	Dark	52.000	40	The Sco	1.8590	7100.0	104	47531	No
5	GOM_NL__2PRFIN20110403_003342_000000403101_00103_47531_8257.N1	03-APR-2011 00:33:42	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	47531	No
6	GOM_NL__2PRFIN20110403_003907_000000453101_00103_47531_8258.N1	03-APR-2011 00:39:07	Straylight	44.500	78	Alp Lup	2.3040	28000.	89	47531	No
7	GOM_NL__2PRFIN20110403_004043_000000483101_00103_47531_8259.N1	03-APR-2011 00:40:43	Straylight	48.000	81	Eta Cen	2.3560	28000.	96	47531	No
8	GOM_NL__2PRFIN20110403_004322_000000503101_00103_47531_8260.N1	03-APR-2011 00:43:22	Straylight	50.000	54	5The Cen	2.0550	4500.0	100	47531	No
9	GOM_NL__2PRFIN20110403_004911_000000473101_00103_47531_8261.N1	03-APR-2011 00:49:11	Twilight	46.500	106	9Bet Crv	2.6480	5600.0	93	47531	No
10	GOM_NL__2PRFIN20110403_005107_000000443101_00103_47531_8262.N1	03-APR-2011 00:51:07	Twilight	43.500	100	4Gam Crv	2.5800	13100.	87	47531	No
11	GOM_NL__2PRFIN20110403_005250_000000603101_00103_47531_8263.N1	03-APR-2011 00:52:50	Bright	60.000	15	67Alp Vir	0.97600	28000.	120	47531	No
12	GOM_NL__2PRFIN20110403_005602_000000443101_00103_47531_8264.N1	03-APR-2011 00:56:02	Bright	44.000	121	29Gam Vir	2.7400	7200.0	88	47531	No
13	GOM_NL__2PRFIN20110403_010039_000000383101_00103_47531_8265.N1	03-APR-2011 01:00:39	Bright	38.000	62	94Bet Leo	2.1360	9700.0	76	47531	No
14	GOM_NL__2PRFIN20110403_010857_000000443101_00103_47531_8266.N1	03-APR-2011 01:08:57	Bright	44.000	152	12Alp2CVn	2.8900	11000.	88	47531	No
15	GOM_NL__2PRFIN20110403_011159_000000373101_00103_47531_8267.N1	03-APR-2011 01:11:59	Bright	37.000	87	64Gam UMa	2.4330	11000.	74	47531	No
16	GOM_NL__2PRFIN20110403_011342_000000593101_00103_47531_8268.N1	03-APR-2011 01:13:42	Bright	59.000	32	77Eps UMa	1.7630	11000.	118	47531	No
17	GOM_NL__2PRFIN20110403_012003_000000393101_00103_47531_8269.N1	03-APR-2011 01:20:03	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	47531	No
18	GOM_NL__2PRFIN20110403_012934_000000393101_00103_47531_8270.N1	03-APR-2011 01:29:34	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	47531	No
19	GOM_NL__2PRFIN20110403_013426_000000483101_00103_47531_8271.N1	03-APR-2011 01:34:26	Bright	47.500	144	18Del Cyg	2.8600	11000.	95	47531	No
20	GOM_NL__2PRFIN20110403_013625_000000463101_00103_47531_8272.N1	03-APR-2011 01:36:25	Bright	45.500	66	37Gam Cyg	2.2080	5900.0	91	47531	No
21	GOM_NL__2PRFIN20110403_013830_000000453101_00103_47531_8273.N1	03-APR-2011 01:38:30	Bright	44.500	92	53Eps Cyg	2.5000	4500.0	89	47531	No
22	GOM_NL__2PRFIN20110403_014509_000000473101_00103_47531_8274.N1	03-APR-2011 01:45:09	Twilight	46.500	61	8Eps Peg	2.1000	3900.0	93	47531	No
23	GOM_NL__2PRFIN20110403_014947_000000433101_00103_47531_8275.N1	03-APR-2011 01:49:47	Dark	43.000	154	22Bet Aqr	2.8990	5700.0	86	47531	No
24	GOM_NL__2PRFIN20110403_020322_000000553101_00103_47531_8276.N1	03-APR-2011 02:03:22	Dark	55.000	103	38Zet Sgr	2.6000	9700.0	110	47531	No
25	GOM_NL__2PRFIN20110403_020657_000000593101_00104_47532_8255.N1	03-APR-2011 02:06:57	Dark	59.000	38	20Eps Sgr	1.8360	11000.	118	47532	No
26	GOM_NL__2PRFIN20110403_021037_000000533101_00104_47532_8256.N1	03-APR-2011 02:10:37	Dark	52.500	40	The Sco	1.8590	7100.0	105	47532	No
27	GOM_NL__2PRFIN20110403_021356_000000403101_00104_47532_8257.N1	03-APR-2011 02:13:56	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	47532	No
28	GOM_NL__2PRFIN20110403_021921_000000453101_00104_47532_8258.N1	03-APR-2011 02:19:21	Straylight	45.000	78	Alp Lup	2.3040	28000.	90	47532	No
29	GOM_NL__2PRFIN20110403_022057_000000473101_00104_47532_8259.N1	03-APR-2011 02:20:57	Straylight	47.000	81	Eta Cen	2.3560	28000.	94	47532	No
30	GOM_NL__2PRFIN20110403_022337_000000543101_00104_47532_8260.N1	03-APR-2011 02:23:37	Straylight	54.000	54	5The Cen	2.0550	4500.0	108	47532	No
31	GOM_NL__2PRFIN20110403_022925_000000453101_00104_47532_8261.N1	03-APR-2011 02:29:25	Twilight	44.500	106	9Bet Crv	2.6480	5600.0	89	47532	No
32	GOM_NL__2PRFIN20110403_023121_000000443101_00104_47532_8262.N1	03-APR-2011 02:31:21	Twilight	43.500	100	4Gam Crv	2.5800	13100.	87	47532	No
33	GOM_NL__2PRFIN20110403_023304_000000623101_00104_47532_8263.N1	03-APR-2011 02:33:04	Bright	62.000	15	67Alp Vir	0.97600	28000.	124	47532	No
34	GOM_NL__2PRFIN20110403_023615_000000433101_00104_47532_8264.N1	03-APR-2011 02:36:15	Bright	43.000	121	29Gam Vir	2.7400	7200.0	86	47532	No
35	GOM_NL__2PRFIN20110403_024053_000000393101_00104_47532_8265.N1	03-APR-2011 02:40:53	Bright	38.500	62	94Bet Leo	2.1360	9700.0	77	47532	No
36	GOM_NL__2PRFIN20110403_024911_000000443101_00104_47532_8266.N1	03-APR-2011 02:49:11	Bright	43.500	152	12Alp2CVn	2.8900	11000.	87	47532	No
37	GOM_NL__2PRFIN20110403_025213_000000373101_00104_47532_8267.N1	03-APR-2011 02:52:13	Bright	37.000	87	64Gam UMa	2.4330	11000.	74	47532	No
38	GOM_NL__2PRFIN20110403_025356_000000403101_00104_47532_8268.N1	03-APR-2011 02:53:56	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	47532	No
39	GOM_NL__2PRFIN20110403_030016_000000413101_00104_47532_8269.N1	03-APR-2011 03:00:16	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47532	No
40	GOM_NL__2PRFIN20110403_030948_000000393101_00104_47532_8270.N1	03-APR-2011 03:09:48	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	47532	No
41	GOM_NL__2PRFIN20110403_031440_000000483101_00104_47532_8271.N1	03-APR-2011 03:14:40	Bright	48.000	144	18Del Cyg	2.8600	11000.	96	47532	No
42	GOM_NL__2PRFIN20110403_031639_000000463101_00104_47532_8272.N1	03-APR-2011 03:16:39	Bright	46.000	66	37Gam Cyg	2.2080	5900.0	92	47532	No

161	GOM_NL__2PRFIN20110403_142231_000000383101_00111_47539_8532.N1	03-APR-2011 14:22:31	Bright	38.000	62	94Bet Leo	2.1360	9700.0	76	47539	No
162	GOM_NL__2PRFIN20110403_143045_000000433101_00111_47539_8533.N1	03-APR-2011 14:30:45	Bright	43.000	152	12Alp2CVn	2.8900	11000.	86	47539	No
163	GOM_NL__2PRFIN20110403_143350_000000383101_00111_47539_8534.N1	03-APR-2011 14:33:50	Bright	38.000	87	64Gam UMa	2.4330	11000.	76	47539	No
164	GOM_NL__2PRFIN20110403_143531_000000403101_00111_47539_8535.N1	03-APR-2011 14:35:31	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	47539	No
165	GOM_NL__2PRFIN20110403_144152_000000373101_00111_47539_8536.N1	03-APR-2011 14:41:52	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	47539	No
166	GOM_NL__2PRFIN20110403_144426_000000483101_00111_47539_8537.N1	03-APR-2011 14:44:26	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	47539	No
167	GOM_NL__2PRFIN20110403_145126_000000383101_00111_47539_8538.N1	03-APR-2011 14:51:26	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	47539	No
168	GOM_NL__2PRFIN20110403_145616_000000453101_00111_47539_8539.N1	03-APR-2011 14:56:16	Bright	45.000	144	18Del Cyg	2.8600	11000.	90	47539	No
169	GOM_NL__2PRFIN20110403_145817_000000453101_00111_47539_8540.N1	03-APR-2011 14:58:17	Bright	45.000	66	37Gam Cyg	2.2080	5900.0	90	47539	No
170	GOM_NL__2PRFIN20110403_150023_000000443101_00111_47539_8541.N1	03-APR-2011 15:00:23	Bright	44.000	92	53Eps Cyg	2.5000	4500.0	88	47539	No
171	GOM_NL__2PRFIN20110403_152530_000000603101_00111_47539_8542.N1	03-APR-2011 15:25:30	Dark	60.000	57	34Sig Sgr	2.0660	26000.	120	47539	No
172	GOM_NL__2PRFIN20110403_152900_000000573101_00112_47540_8552.N1	03-APR-2011 15:29:00	Dark	56.500	38	20Eps Sgr	1.8360	11000.	113	47540	No
173	GOM_NL__2PRFIN20110403_153313_000000603101_00112_47540_8553.N1	03-APR-2011 15:33:13	Dark	60.000	25	35Lam Sco	1.6200	28000.	120	47540	No
174	GOM_NL__2PRFIN20110403_154118_000000443101_00112_47540_8554.N1	03-APR-2011 15:41:18	Straylight	43.500	78	Alp Lup	2.3040	28000.	87	47540	No
175	GOM_NL__2PRFIN20110403_154254_000000503101_00112_47540_8555.N1	03-APR-2011 15:42:54	Straylight	49.500	81	Eta Cen	2.3560	28000.	99	47540	No
176	GOM_NL__2PRFIN20110403_154533_000000533101_00112_47540_8556.N1	03-APR-2011 15:45:33	Straylight	53.000	54	5The Cen	2.0550	4500.0	106	47540	No

3. Quality information per product

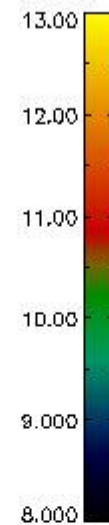
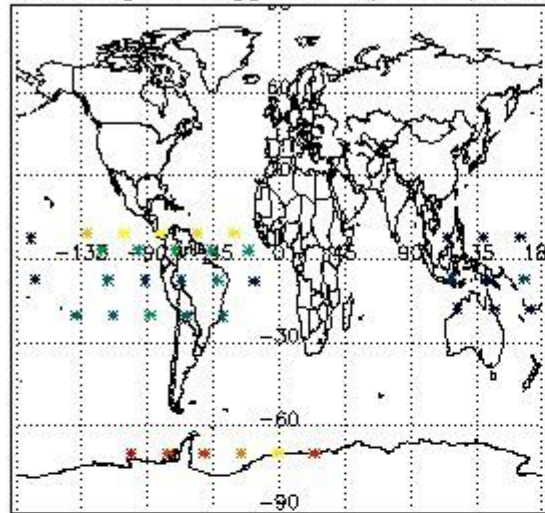
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

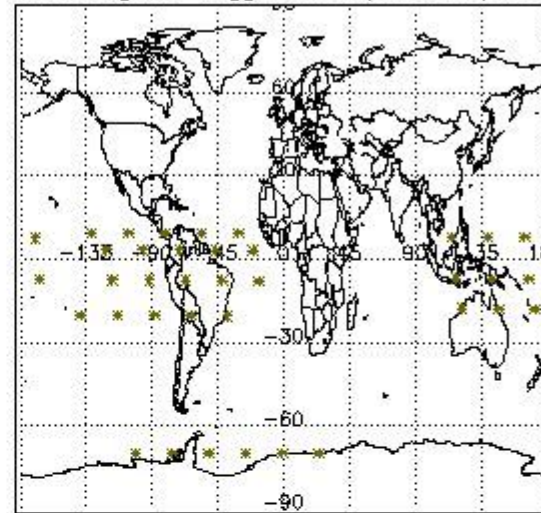


3.2 Plot quality information per product (world map)

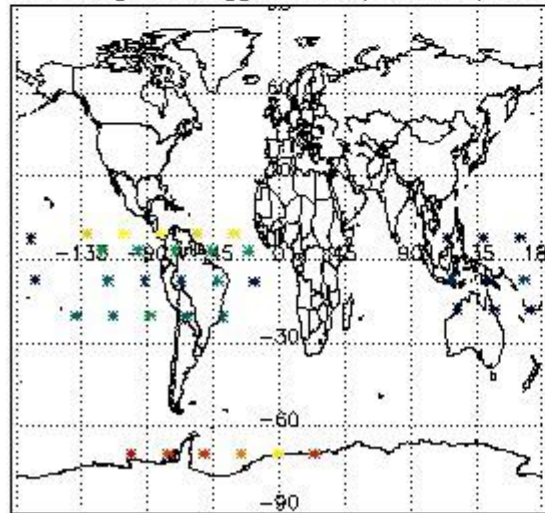
Percentage of flagged data per O3 profile



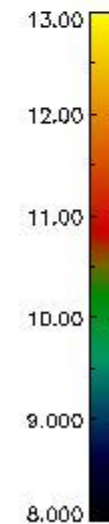
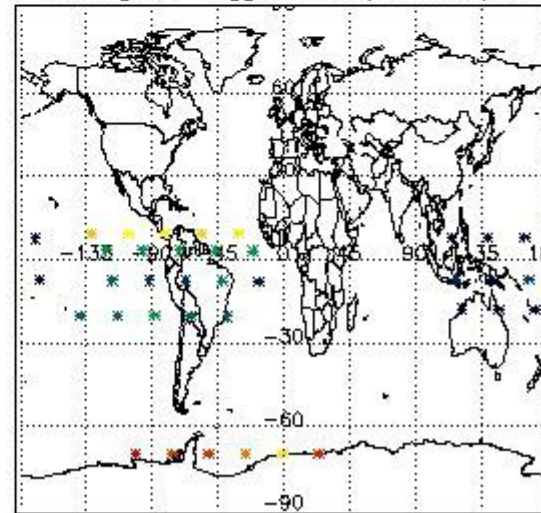
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

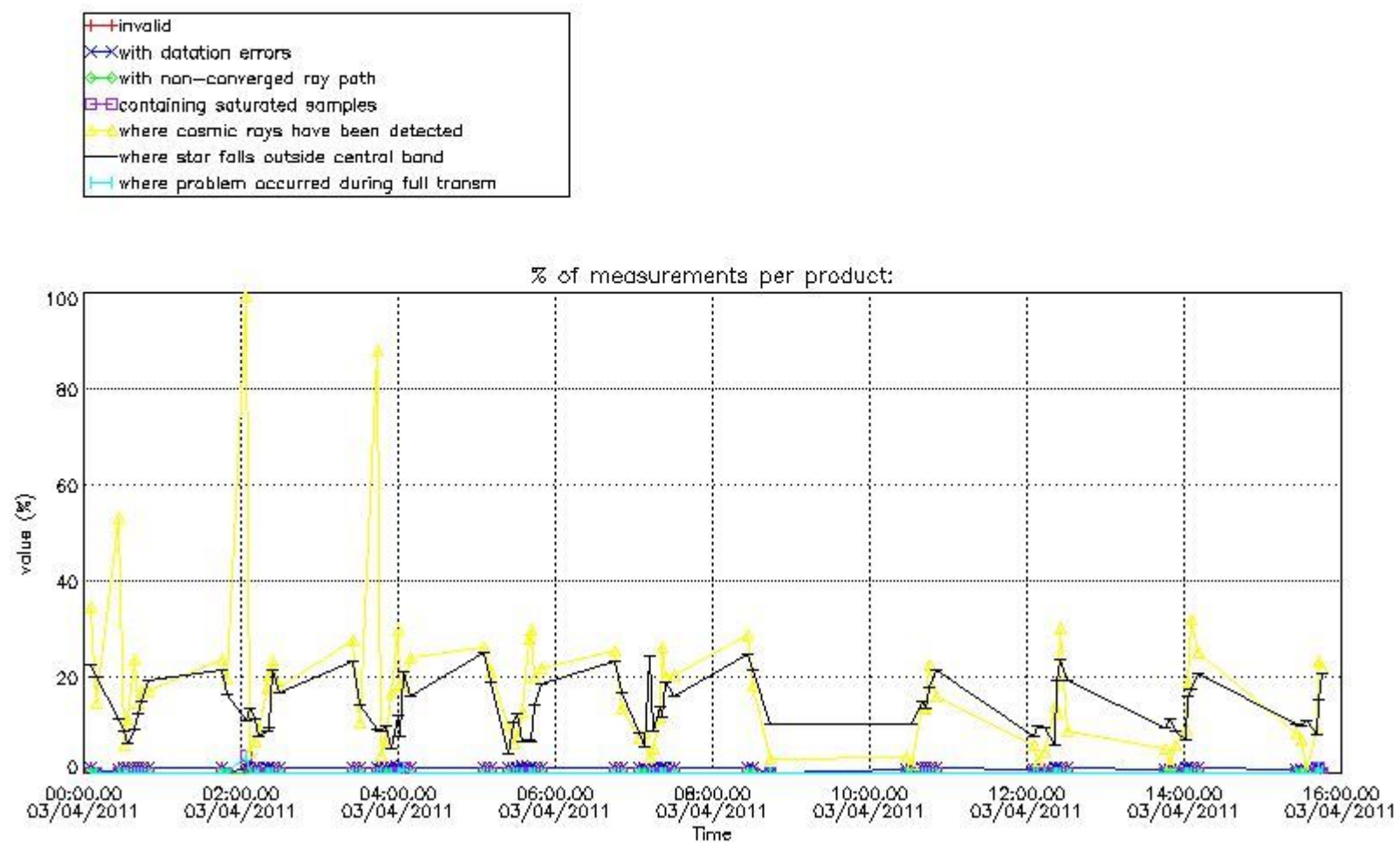


4. Level 1 quality information per product

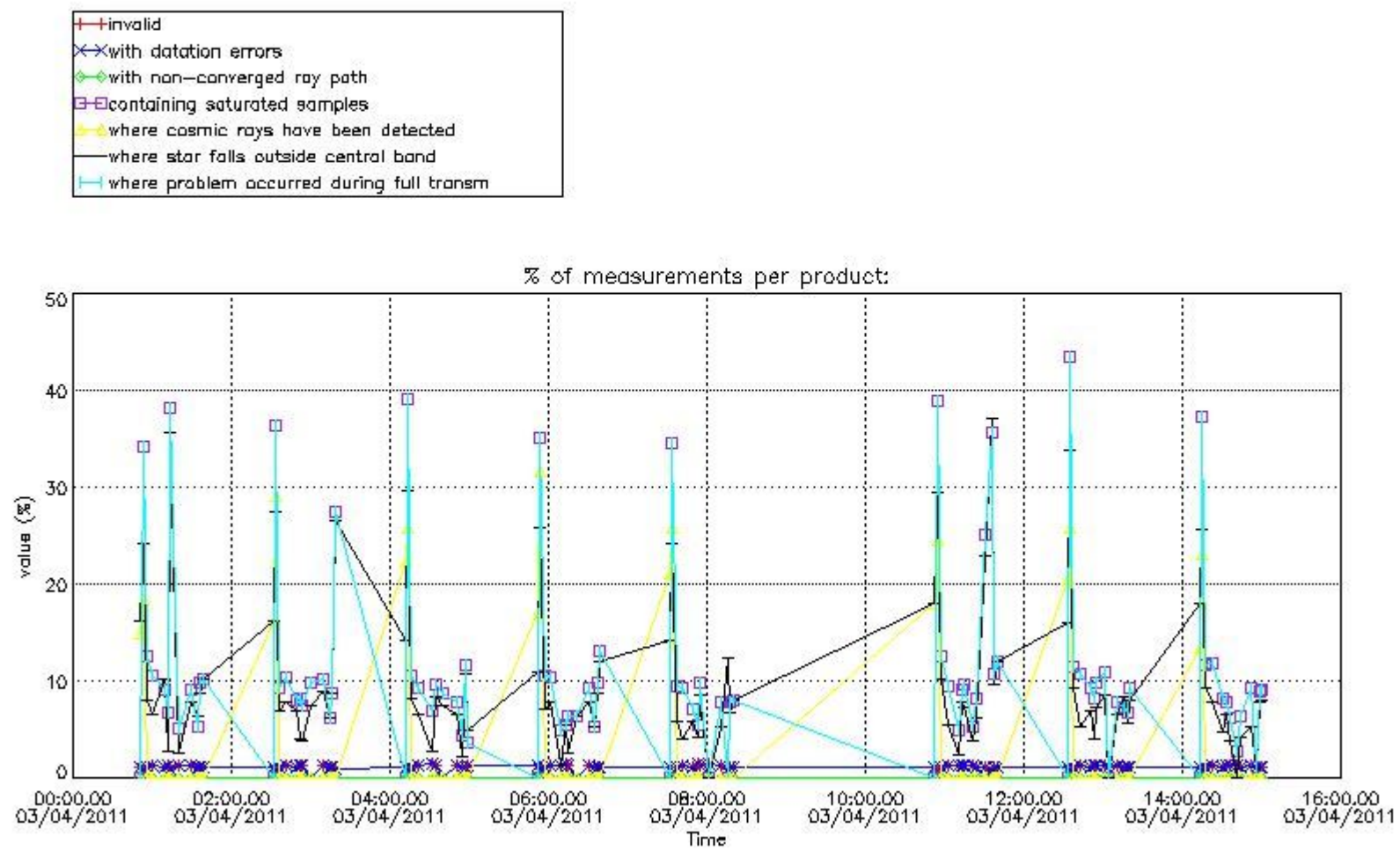
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



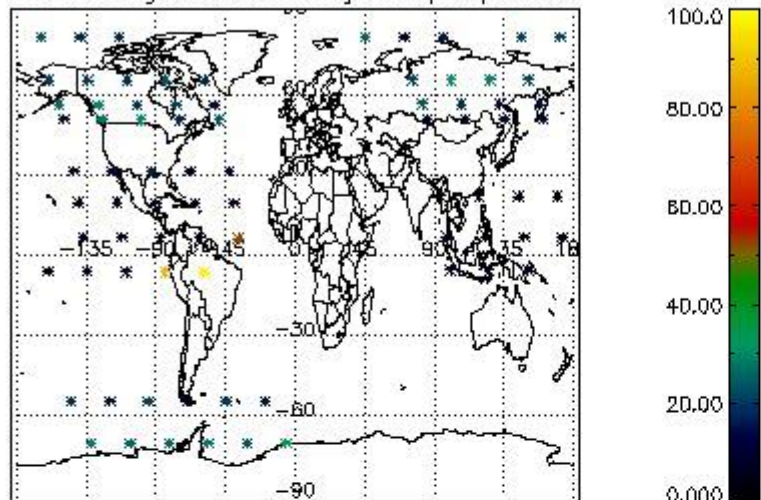
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



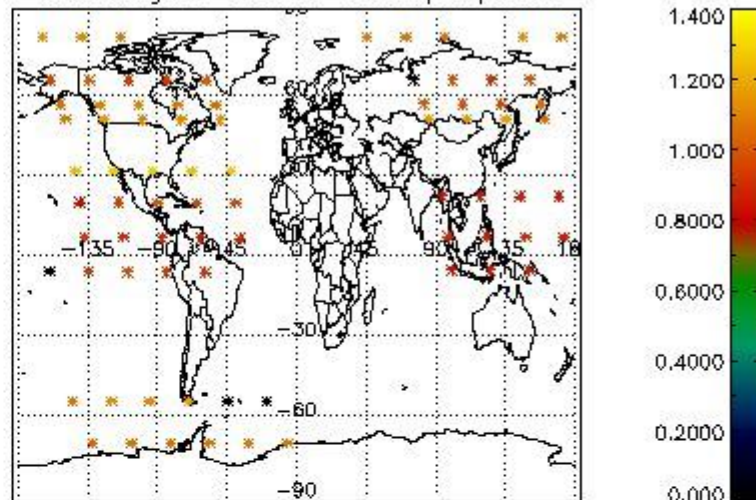
4.2 Plot quality information per product coming from level 1b processing (world map)

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

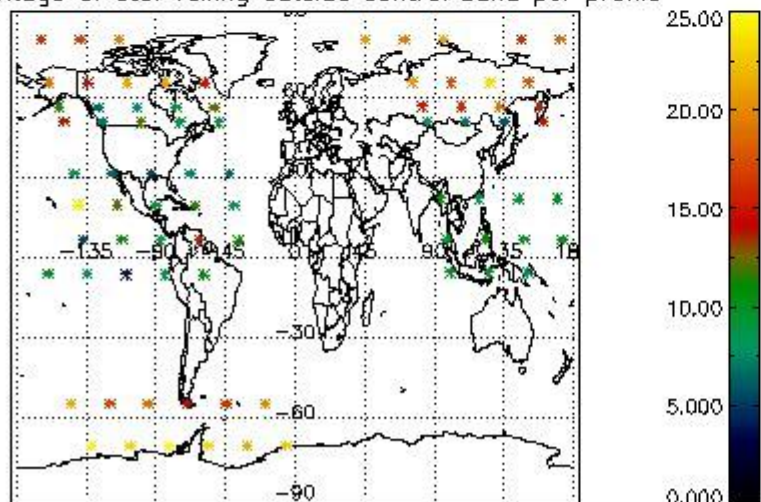
Percentage of cosmic ray hits per profile



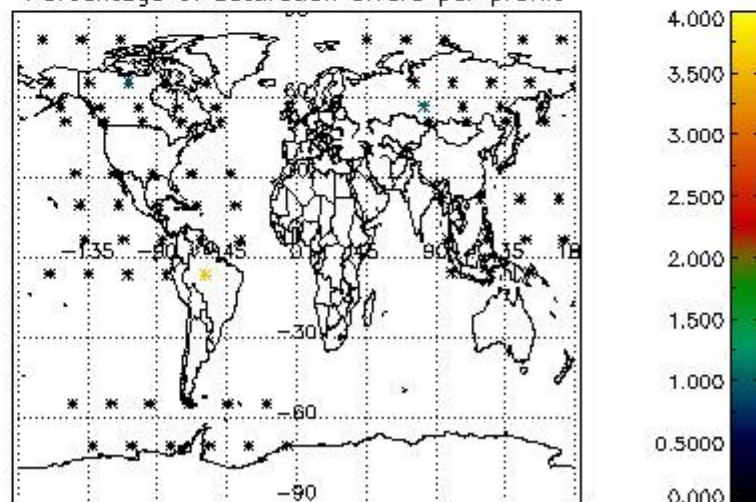
Percentage of datation errors per profile



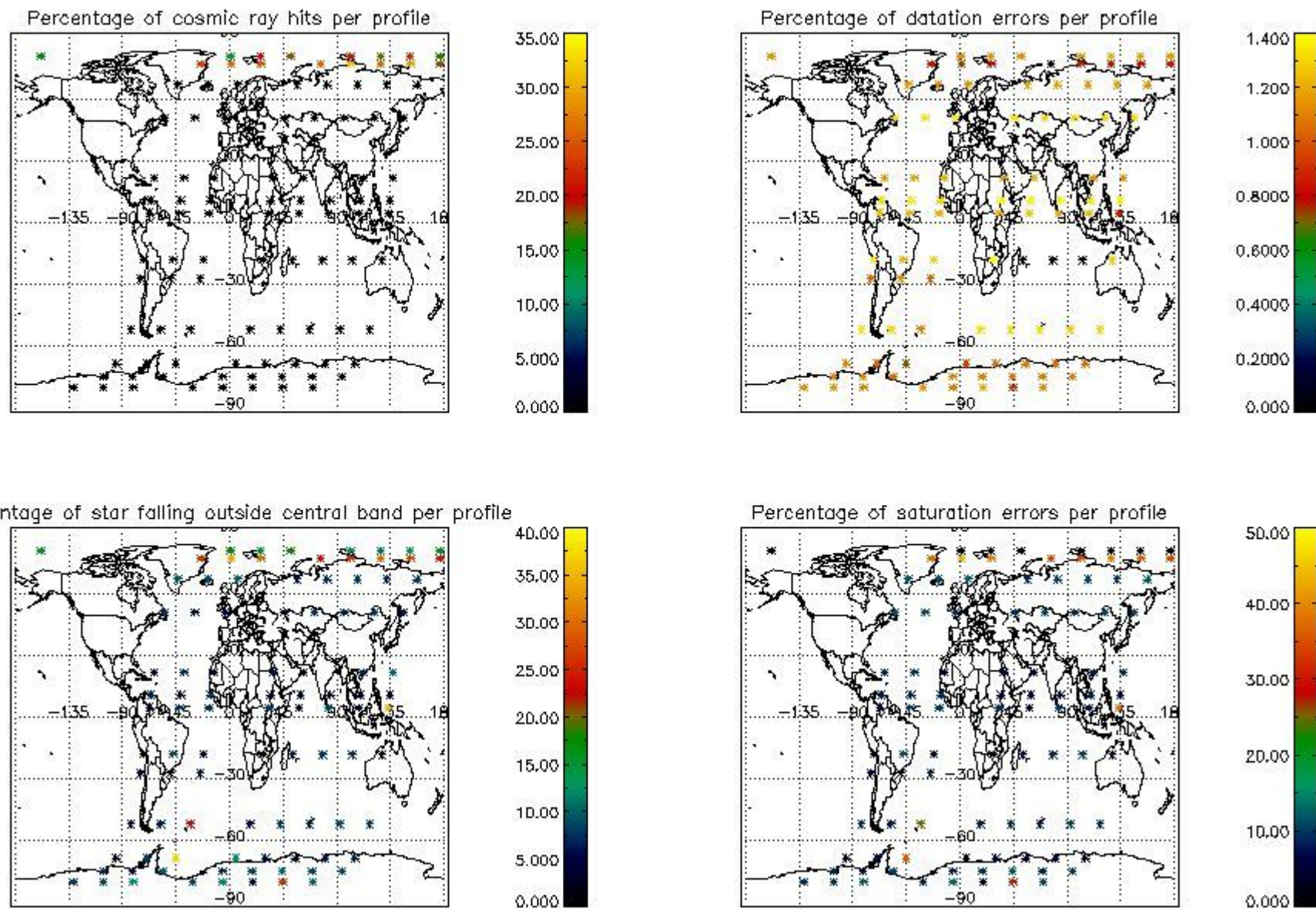
Percentage of star falling outside central band per profile



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

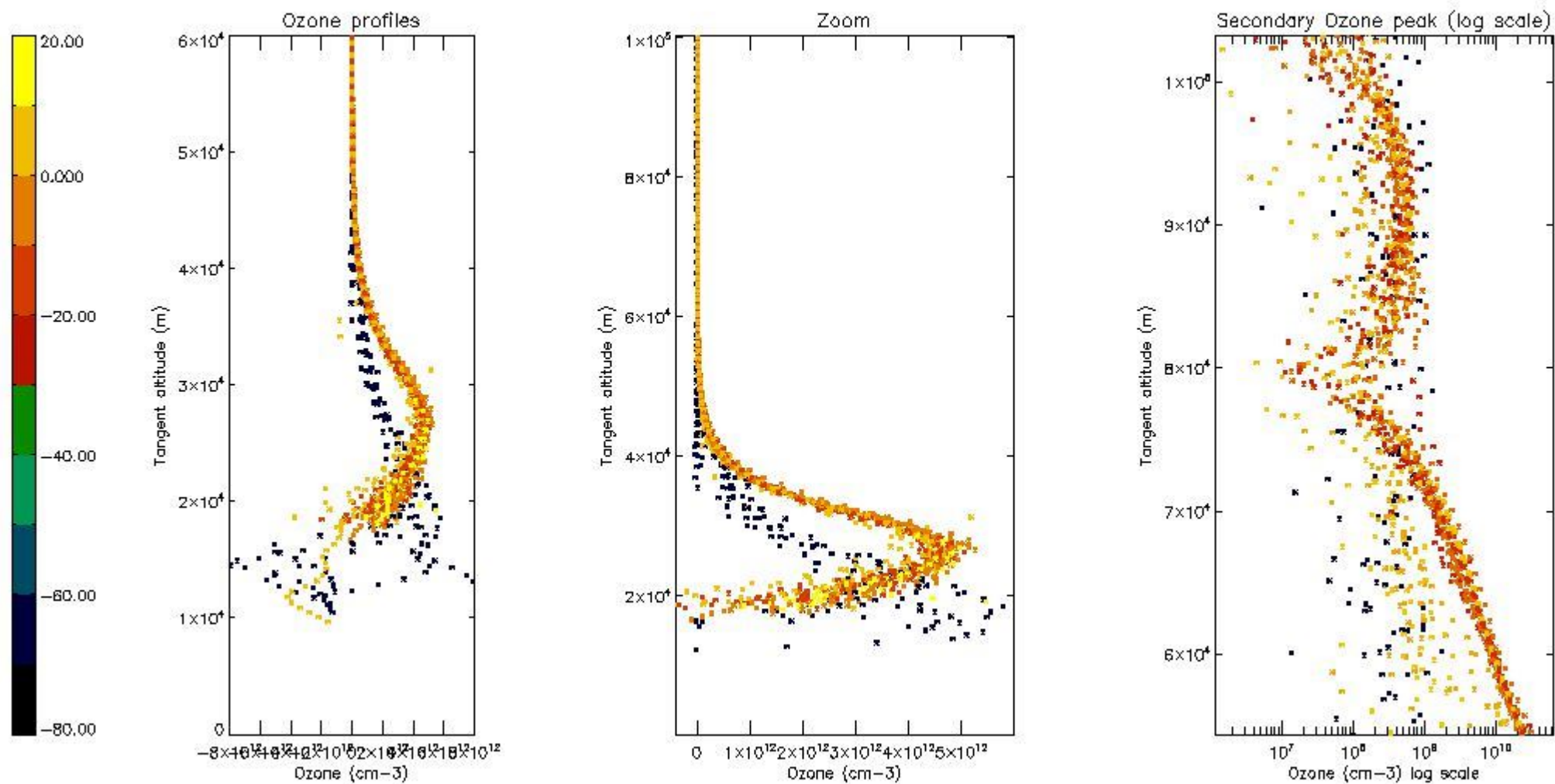
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	12

STD < 10	9
STD < 5	6

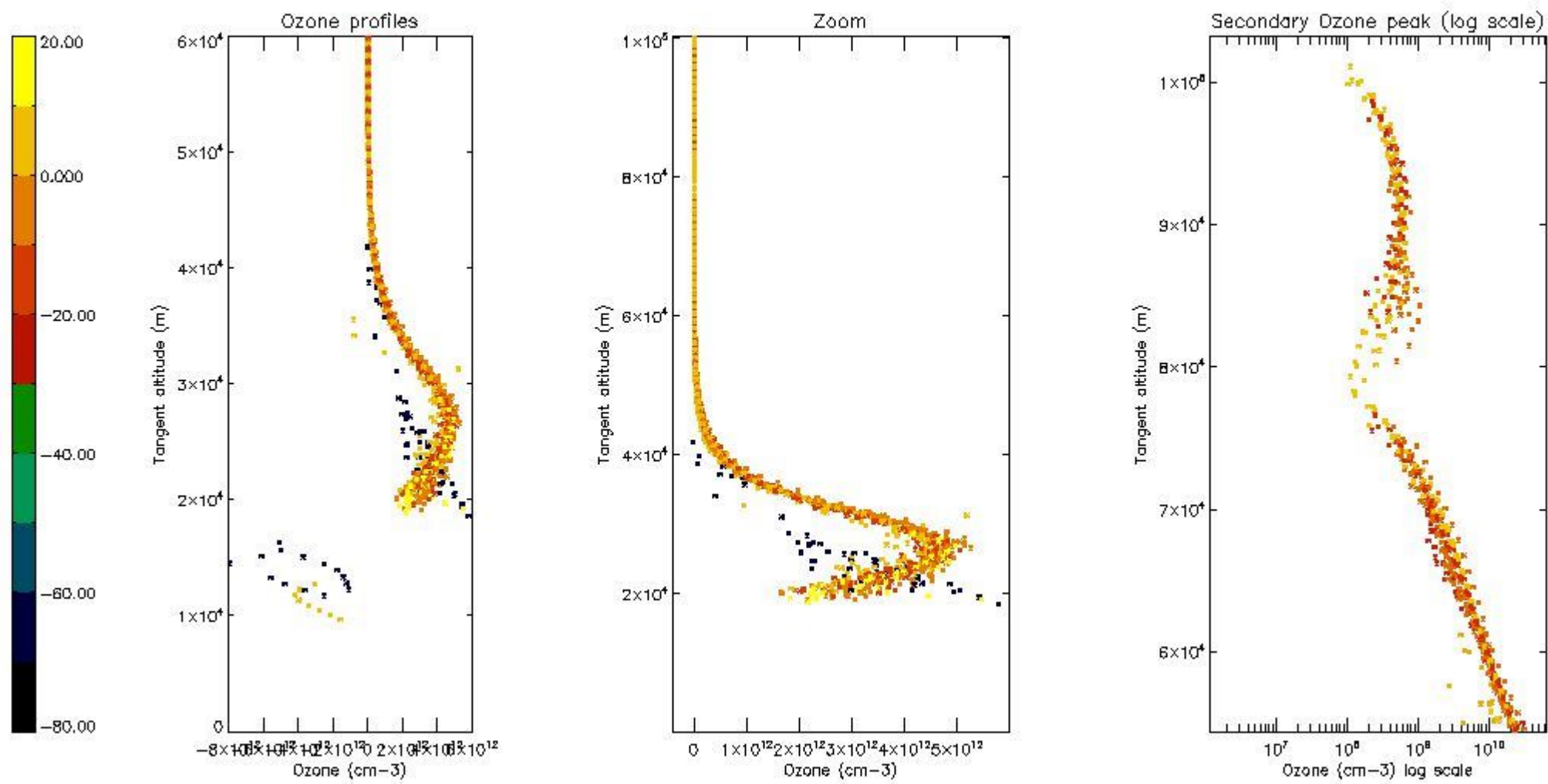
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



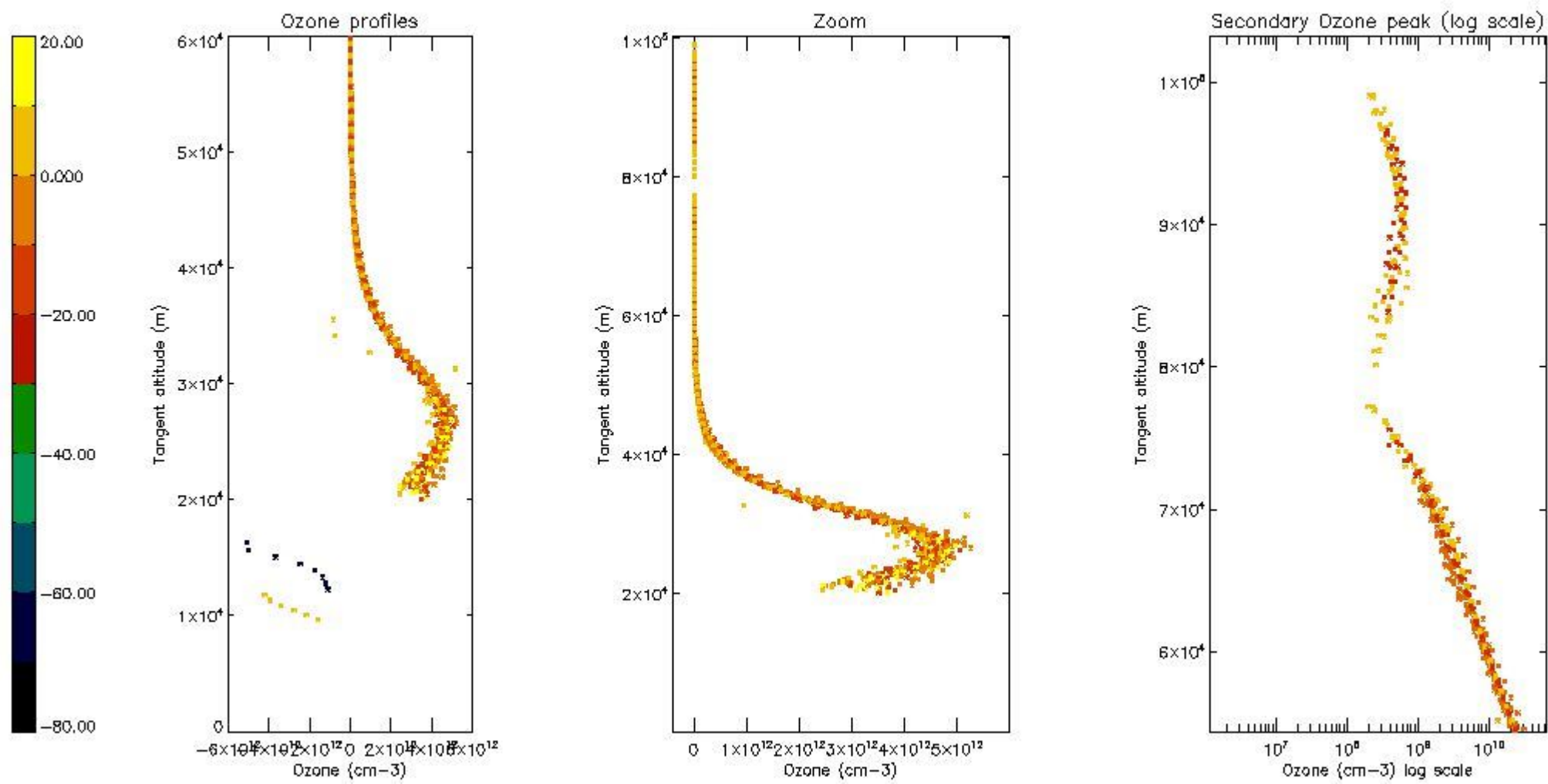
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



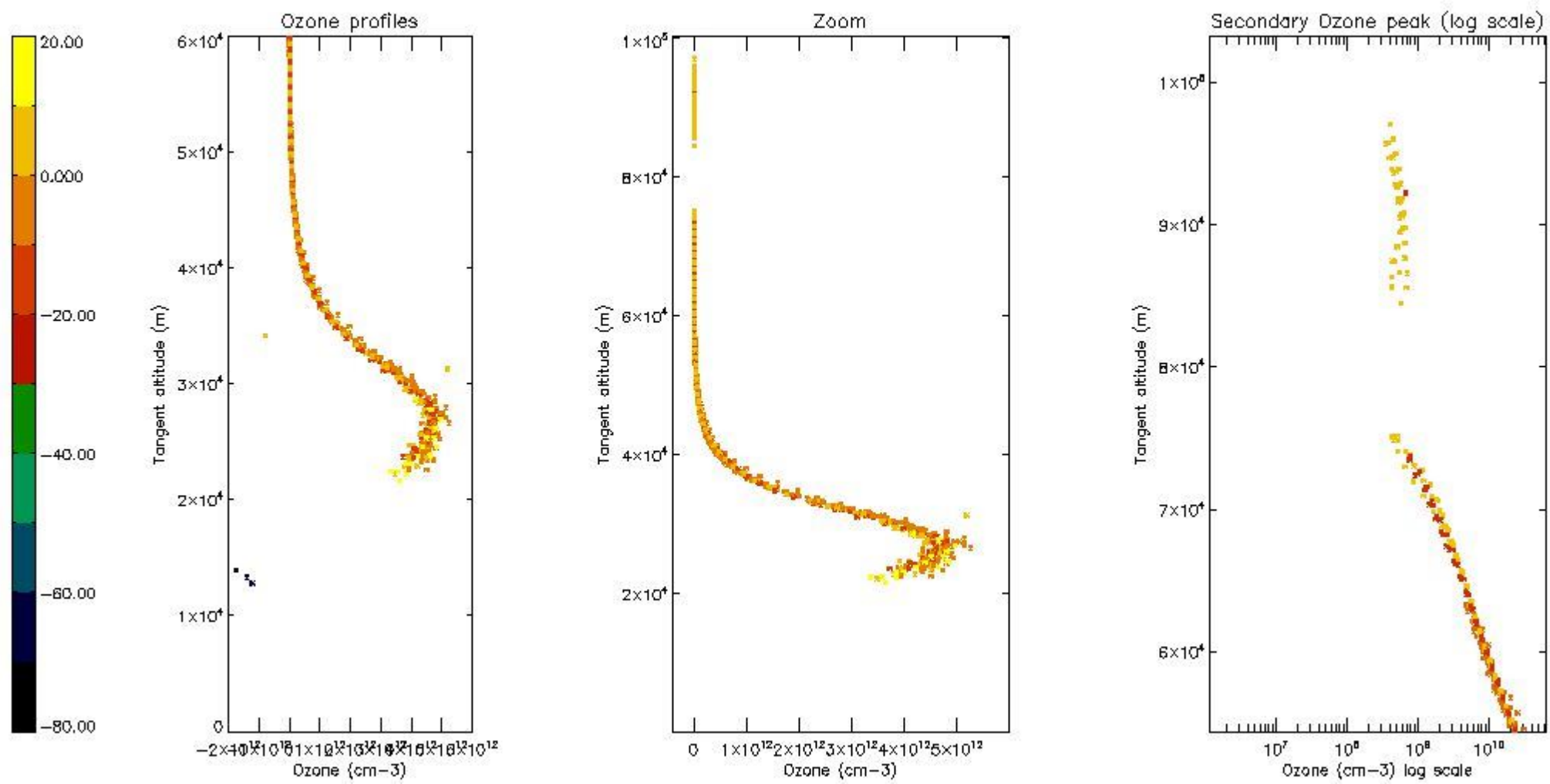
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



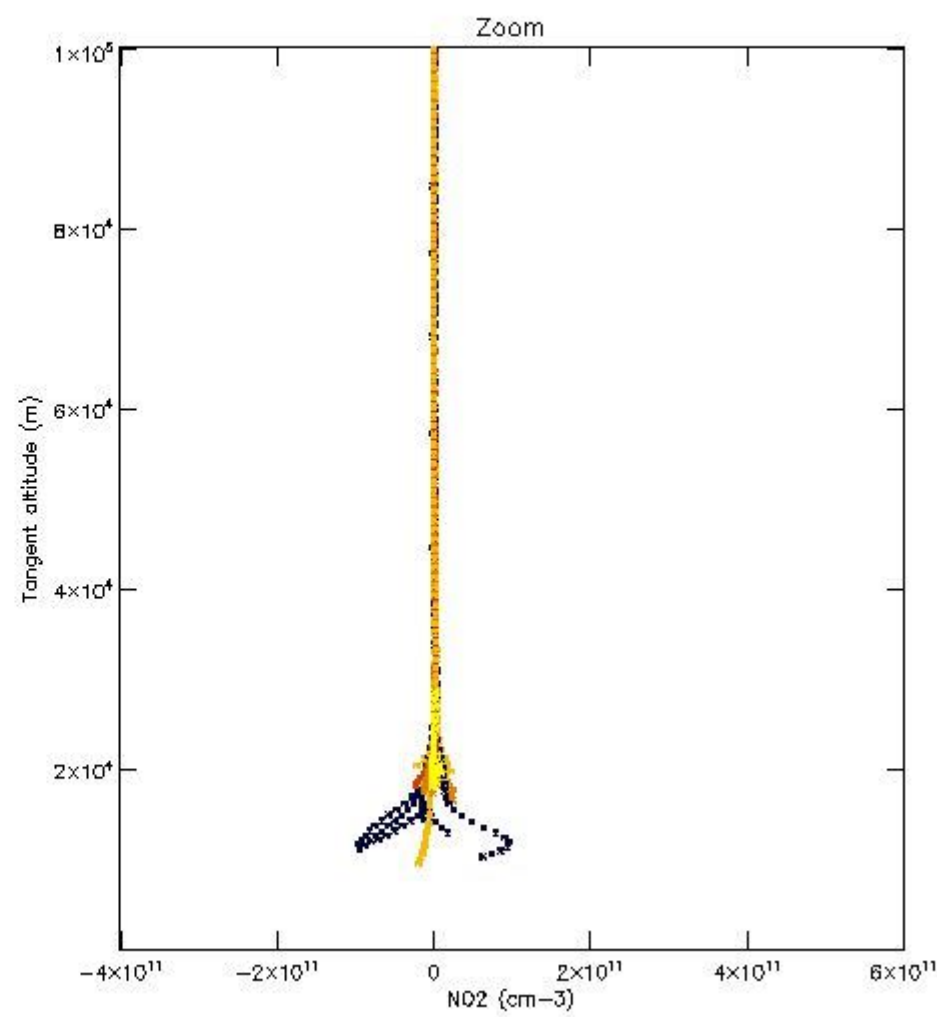
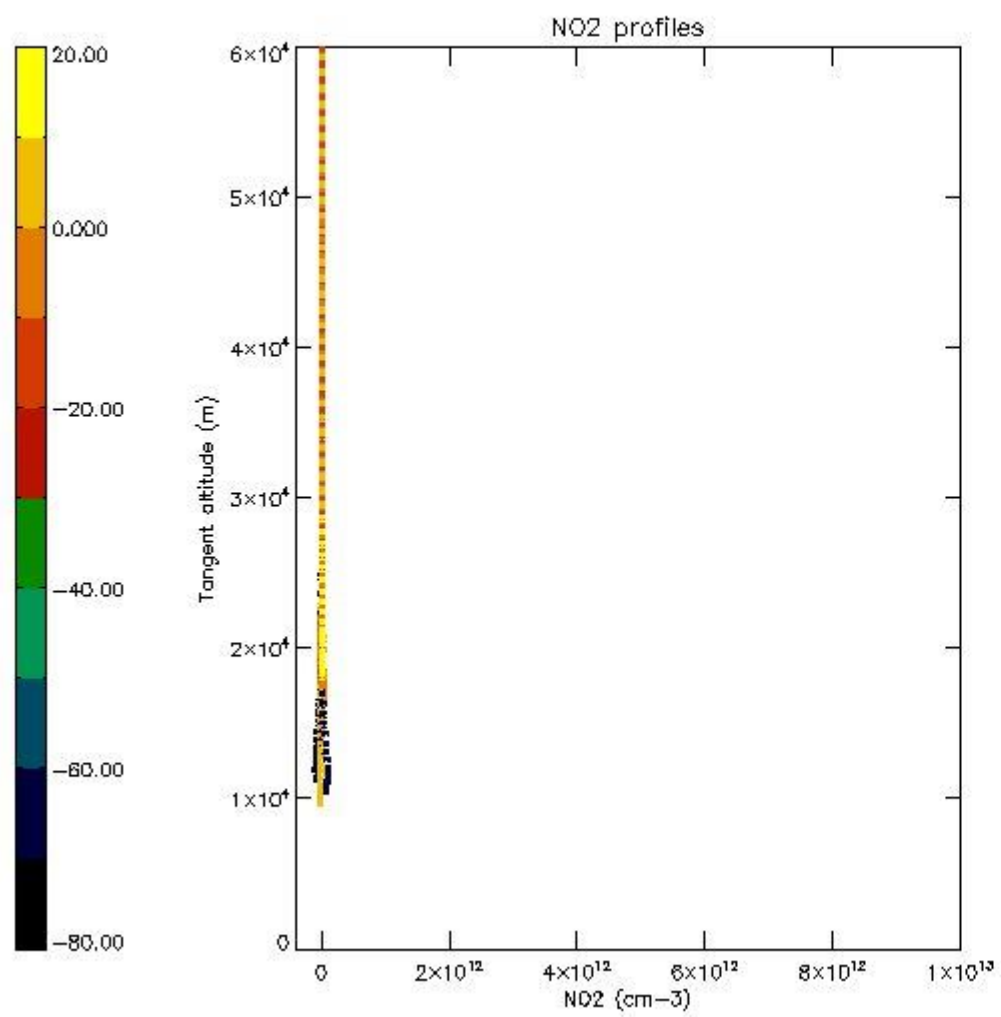
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



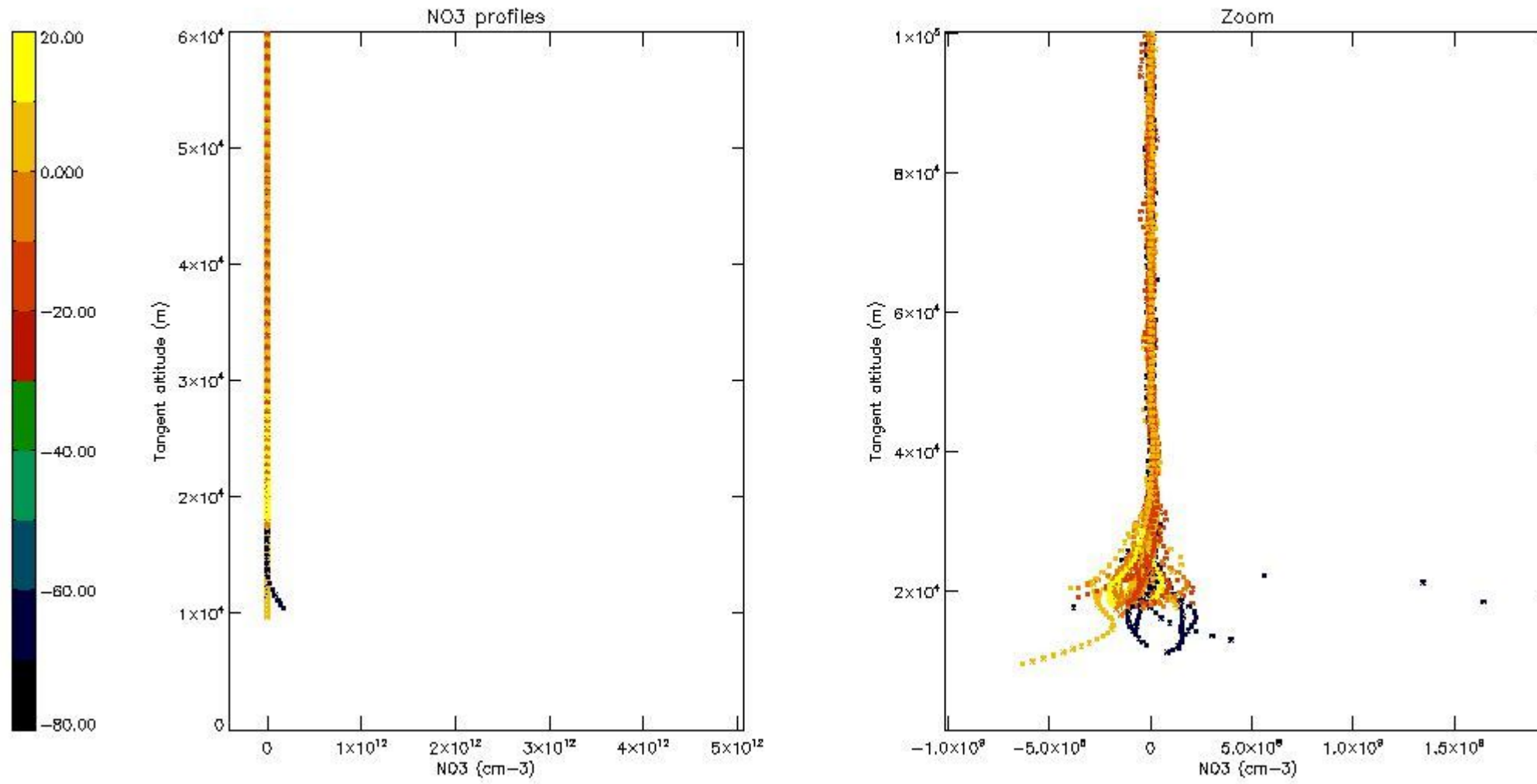
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	03-APR-2011 00:04:55
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-APR-2011 00:04:55
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-APR-2011 00:04:55

GOMOS Level 2 Daily Report

SUMMARY

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

Item	Value
Time of report generation	24APR2013 12:00:14
Data source version	GOMOS/6.01
Start time of products	03-04-2011 (03APR2011 00:00:00)
Stop time of products	04-04-2011 (04APR2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	176
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

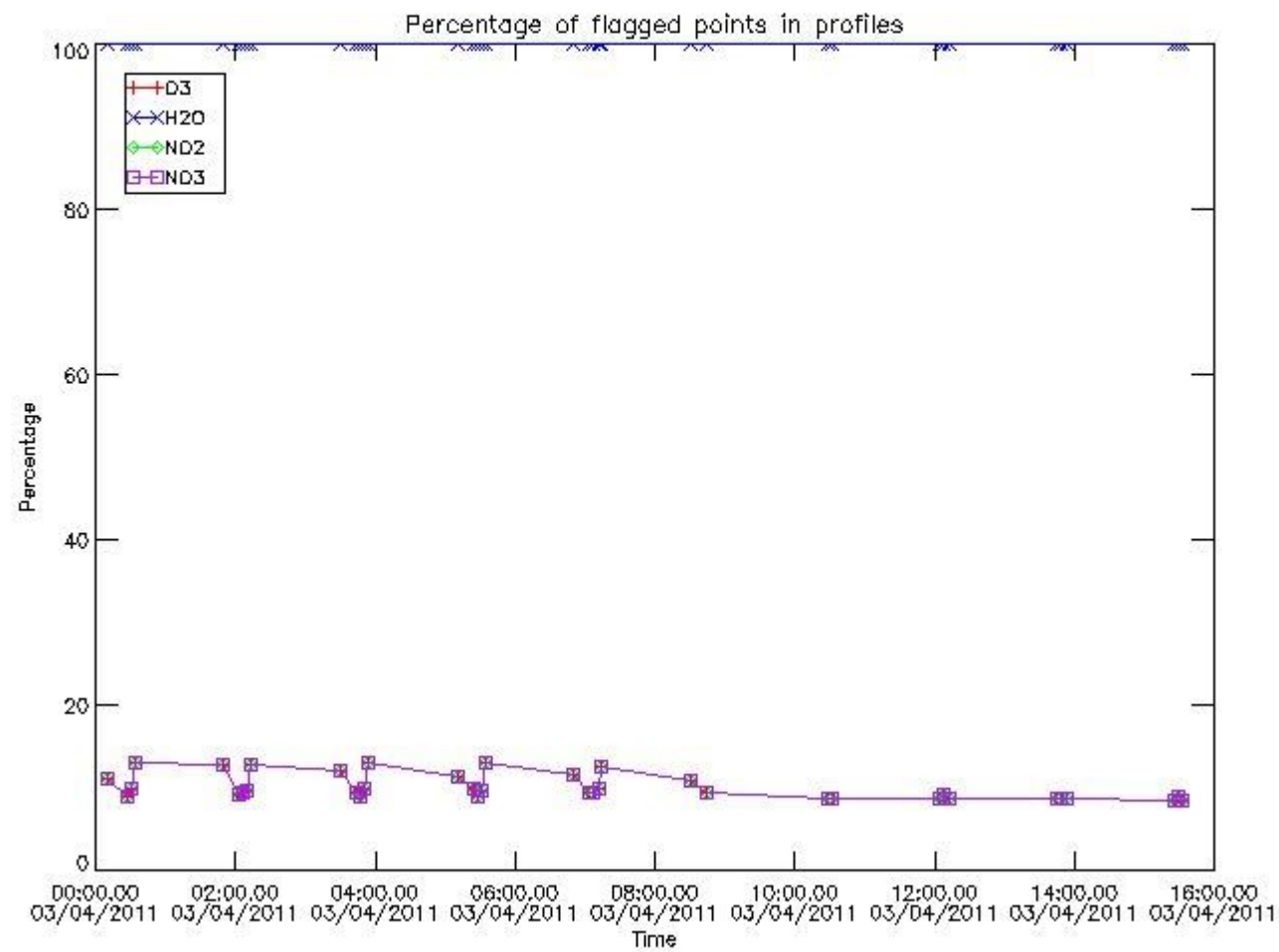
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110403_000455_000000473101_00102_47530_8274.N1	03-APR-2011 00:04:55	Twilight	46.500	61	8Eps Peg	2.1000	3900.0	93	47530	No
2	GOM_NL__2PRFIN20110403_000932_000000453101_00102_47530_8275.N1	03-APR-2011 00:09:32	Dark	45.000	154	22Bet Aqr	2.8990	5700.0	90	47530	No
3	GOM_NL__2PRFIN20110403_002642_000000583101_00103_47531_8255.N1	03-APR-2011 00:26:42	Dark	57.500	38	20Eps Sgr	1.8360	11000.	115	47531	No
4	GOM_NL__2PRFIN20110403_003021_000000523101_00103_47531_8256.N1	03-APR-2011 00:30:21	Dark	52.000	40	The Sco	1.8590	7100.0	104	47531	No
5	GOM_NL__2PRFIN20110403_003342_000000403101_00103_47531_8257.N1	03-APR-2011 00:33:42	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	47531	No
6	GOM_NL__2PRFIN20110403_003907_000000453101_00103_47531_8258.N1	03-APR-2011 00:39:07	Straylight	44.500	78	Alp Lup	2.3040	28000.	89	47531	No
7	GOM_NL__2PRFIN20110403_004043_000000483101_00103_47531_8259.N1	03-APR-2011 00:40:43	Straylight	48.000	81	Eta Cen	2.3560	28000.	96	47531	No
8	GOM_NL__2PRFIN20110403_004322_000000503101_00103_47531_8260.N1	03-APR-2011 00:43:22	Straylight	50.000	54	5The Cen	2.0550	4500.0	100	47531	No
9	GOM_NL__2PRFIN20110403_004911_000000473101_00103_47531_8261.N1	03-APR-2011 00:49:11	Twilight	46.500	106	9Bet Crv	2.6480	5600.0	93	47531	No
10	GOM_NL__2PRFIN20110403_005107_000000443101_00103_47531_8262.N1	03-APR-2011 00:51:07	Twilight	43.500	100	4Gam Crv	2.5800	13100.	87	47531	No
11	GOM_NL__2PRFIN20110403_005250_000000603101_00103_47531_8263.N1	03-APR-2011 00:52:50	Bright	60.000	15	67Alp Vir	0.97600	28000.	120	47531	No
12	GOM_NL__2PRFIN20110403_005602_000000443101_00103_47531_8264.N1	03-APR-2011 00:56:02	Bright	44.000	121	29Gam Vir	2.7400	7200.0	88	47531	No
13	GOM_NL__2PRFIN20110403_010039_000000383101_00103_47531_8265.N1	03-APR-2011 01:00:39	Bright	38.000	62	94Bet Leo	2.1360	9700.0	76	47531	No
14	GOM_NL__2PRFIN20110403_010857_000000443101_00103_47531_8266.N1	03-APR-2011 01:08:57	Bright	44.000	152	12Alp2CVn	2.8900	11000.	88	47531	No
15	GOM_NL__2PRFIN20110403_011159_000000373101_00103_47531_8267.N1	03-APR-2011 01:11:59	Bright	37.000	87	64Gam UMa	2.4330	11000.	74	47531	No
16	GOM_NL__2PRFIN20110403_011342_000000593101_00103_47531_8268.N1	03-APR-2011 01:13:42	Bright	59.000	32	77Eps UMa	1.7630	11000.	118	47531	No
17	GOM_NL__2PRFIN20110403_012003_000000393101_00103_47531_8269.N1	03-APR-2011 01:20:03	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	47531	No
18	GOM_NL__2PRFIN20110403_012934_000000393101_00103_47531_8270.N1	03-APR-2011 01:29:34	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	47531	No
19	GOM_NL__2PRFIN20110403_013426_000000483101_00103_47531_8271.N1	03-APR-2011 01:34:26	Bright	47.500	144	18Del Cyg	2.8600	11000.	95	47531	No
20	GOM_NL__2PRFIN20110403_013625_000000463101_00103_47531_8272.N1	03-APR-2011 01:36:25	Bright	45.500	66	37Gam Cyg	2.2080	5900.0	91	47531	No
21	GOM_NL__2PRFIN20110403_013830_000000453101_00103_47531_8273.N1	03-APR-2011 01:38:30	Bright	44.500	92	53Eps Cyg	2.5000	4500.0	89	47531	No
22	GOM_NL__2PRFIN20110403_014509_000000473101_00103_47531_8274.N1	03-APR-2011 01:45:09	Twilight	46.500	61	8Eps Peg	2.1000	3900.0	93	47531	No
23	GOM_NL__2PRFIN20110403_014947_000000433101_00103_47531_8275.N1	03-APR-2011 01:49:47	Dark	43.000	154	22Bet Aqr	2.8990	5700.0	86	47531	No
24	GOM_NL__2PRFIN20110403_020322_000000553101_00103_47531_8276.N1	03-APR-2011 02:03:22	Dark	55.000	103	38Zet Sgr	2.6000	9700.0	110	47531	No
25	GOM_NL__2PRFIN20110403_020657_000000593101_00104_47532_8255.N1	03-APR-2011 02:06:57	Dark	59.000	38	20Eps Sgr	1.8360	11000.	118	47532	No
26	GOM_NL__2PRFIN20110403_021037_000000533101_00104_47532_8256.N1	03-APR-2011 02:10:37	Dark	52.500	40	The Sco	1.8590	7100.0	105	47532	No
27	GOM_NL__2PRFIN20110403_021356_000000403101_00104_47532_8257.N1	03-APR-2011 02:13:56	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	47532	No
28	GOM_NL__2PRFIN20110403_021921_000000453101_00104_47532_8258.N1	03-APR-2011 02:19:21	Straylight	45.000	78	Alp Lup	2.3040	28000.	90	47532	No
29	GOM_NL__2PRFIN20110403_022057_000000473101_00104_47532_8259.N1	03-APR-2011 02:20:57	Straylight	47.000	81	Eta Cen	2.3560	28000.	94	47532	No
30	GOM_NL__2PRFIN20110403_022337_000000543101_00104_47532_8260.N1	03-APR-2011 02:23:37	Straylight	54.000	54	5The Cen	2.0550	4500.0	108	47532	No
31	GOM_NL__2PRFIN20110403_022925_000000453101_00104_47532_8261.N1	03-APR-2011 02:29:25	Twilight	44.500	106	9Bet Crv	2.6480	5600.0	89	47532	No
32	GOM_NL__2PRFIN20110403_023121_000000443101_00104_47532_8262.N1	03-APR-2011 02:31:21	Twilight	43.500	100	4Gam Crv	2.5800	13100.	87	47532	No
33	GOM_NL__2PRFIN20110403_023304_000000623101_00104_47532_8263.N1	03-APR-2011 02:33:04	Bright	62.000	15	67Alp Vir	0.97600	28000.	124	47532	No
34	GOM_NL__2PRFIN20110403_023615_000000433101_00104_47532_8264.N1	03-APR-2011 02:36:15	Bright	43.000	121	29Gam Vir	2.7400	7200.0	86	47532	No
35	GOM_NL__2PRFIN20110403_024053_000000393101_00104_47532_8265.N1	03-APR-2011 02:40:53	Bright	38.500	62	94Bet Leo	2.1360	9700.0	77	47532	No
36	GOM_NL__2PRFIN20110403_024911_000000443101_00104_47532_8266.N1	03-APR-2011 02:49:11	Bright	43.500	152	12Alp2CVn	2.8900	11000.	87	47532	No
37	GOM_NL__2PRFIN20110403_025213_000000373101_00104_47532_8267.N1	03-APR-2011 02:52:13	Bright	37.000	87	64Gam UMa	2.4330	11000.	74	47532	No
38	GOM_NL__2PRFIN20110403_025356_000000403101_00104_47532_8268.N1	03-APR-2011 02:53:56	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	47532	No
39	GOM_NL__2PRFIN20110403_030016_000000413101_00104_47532_8269.N1	03-APR-2011 03:00:16	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	47532	No
40	GOM_NL__2PRFIN20110403_030948_000000393101_00104_47532_8270.N1	03-APR-2011 03:09:48	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	47532	No
41	GOM_NL__2PRFIN20110403_031440_000000483101_00104_47532_8271.N1	03-APR-2011 03:14:40	Bright	48.000	144	18Del Cyg	2.8600	11000.	96	47532	No
42	GOM_NL__2PRFIN20110403_031639_000000463101_00104_47532_8272.N1	03-APR-2011 03:16:39	Bright	46.000	66	37Gam Cyg	2.2080	5900.0	92	47532	No

161	GOM_NL__2PRFIN20110403_142231_000000383101_00111_47539_8532.N1	03-APR-2011 14:22:31	Bright	38.000	62	94Bet Leo	2.1360	9700.0	76	47539	No
162	GOM_NL__2PRFIN20110403_143045_000000433101_00111_47539_8533.N1	03-APR-2011 14:30:45	Bright	43.000	152	12Alp2CVn	2.8900	11000.	86	47539	No
163	GOM_NL__2PRFIN20110403_143350_000000383101_00111_47539_8534.N1	03-APR-2011 14:33:50	Bright	38.000	87	64Gam UMa	2.4330	11000.	76	47539	No
164	GOM_NL__2PRFIN20110403_143531_000000403101_00111_47539_8535.N1	03-APR-2011 14:35:31	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	47539	No
165	GOM_NL__2PRFIN20110403_144152_000000373101_00111_47539_8536.N1	03-APR-2011 14:41:52	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	47539	No
166	GOM_NL__2PRFIN20110403_144426_000000483101_00111_47539_8537.N1	03-APR-2011 14:44:26	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	47539	No
167	GOM_NL__2PRFIN20110403_145126_000000383101_00111_47539_8538.N1	03-APR-2011 14:51:26	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	47539	No
168	GOM_NL__2PRFIN20110403_145616_000000453101_00111_47539_8539.N1	03-APR-2011 14:56:16	Bright	45.000	144	18Del Cyg	2.8600	11000.	90	47539	No
169	GOM_NL__2PRFIN20110403_145817_000000453101_00111_47539_8540.N1	03-APR-2011 14:58:17	Bright	45.000	66	37Gam Cyg	2.2080	5900.0	90	47539	No
170	GOM_NL__2PRFIN20110403_150023_000000443101_00111_47539_8541.N1	03-APR-2011 15:00:23	Bright	44.000	92	53Eps Cyg	2.5000	4500.0	88	47539	No
171	GOM_NL__2PRFIN20110403_152530_000000603101_00111_47539_8542.N1	03-APR-2011 15:25:30	Dark	60.000	57	34Sig Sgr	2.0660	26000.	120	47539	No
172	GOM_NL__2PRFIN20110403_152900_000000573101_00112_47540_8552.N1	03-APR-2011 15:29:00	Dark	56.500	38	20Eps Sgr	1.8360	11000.	113	47540	No
173	GOM_NL__2PRFIN20110403_153313_000000603101_00112_47540_8553.N1	03-APR-2011 15:33:13	Dark	60.000	25	35Lam Sco	1.6200	28000.	120	47540	No
174	GOM_NL__2PRFIN20110403_154118_000000443101_00112_47540_8554.N1	03-APR-2011 15:41:18	Straylight	43.500	78	Alp Lup	2.3040	28000.	87	47540	No
175	GOM_NL__2PRFIN20110403_154254_000000503101_00112_47540_8555.N1	03-APR-2011 15:42:54	Straylight	49.500	81	Eta Cen	2.3560	28000.	99	47540	No
176	GOM_NL__2PRFIN20110403_154533_000000533101_00112_47540_8556.N1	03-APR-2011 15:45:33	Straylight	53.000	54	5The Cen	2.0550	4500.0	106	47540	No

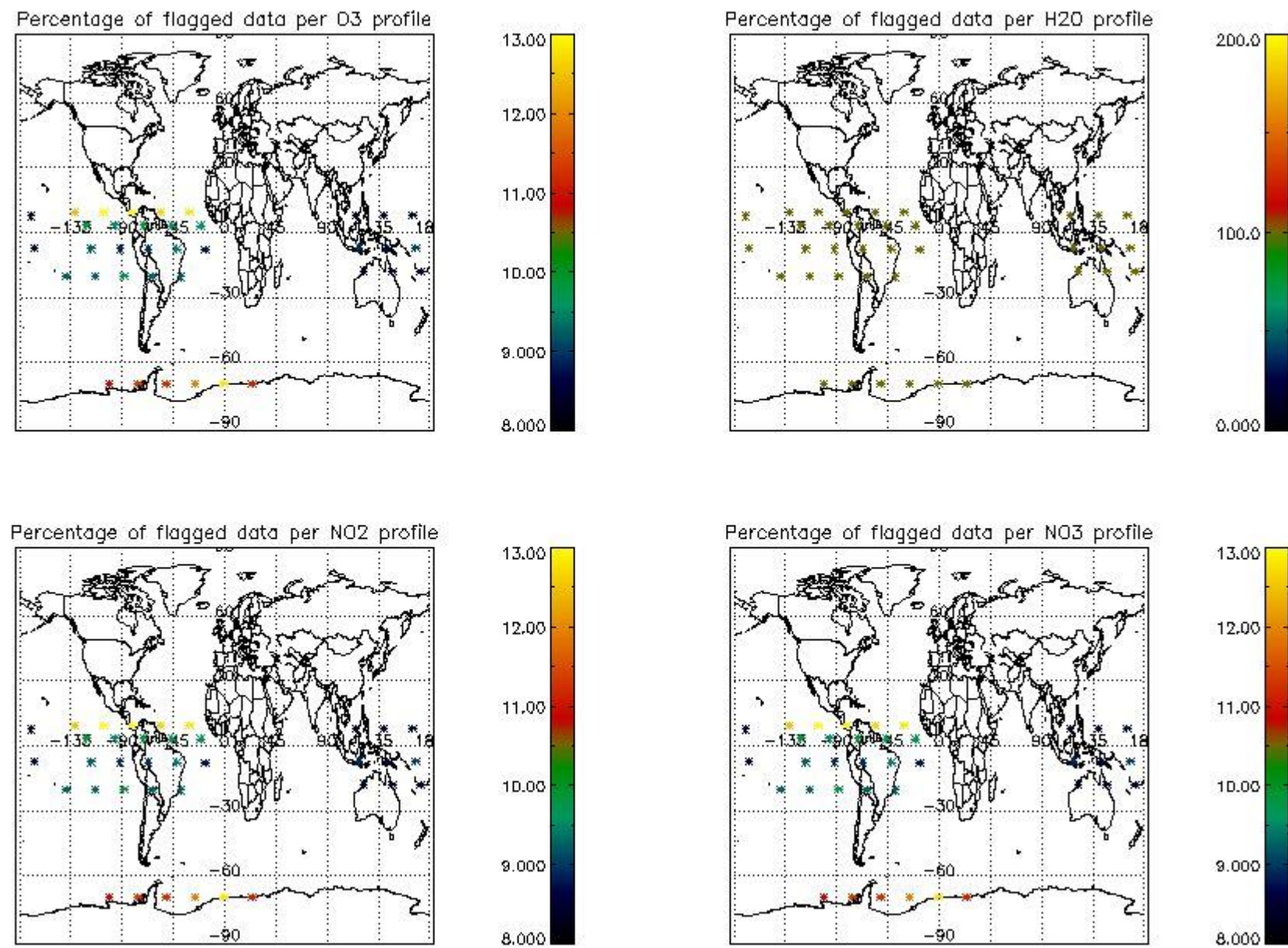
3. Quality information per product

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)

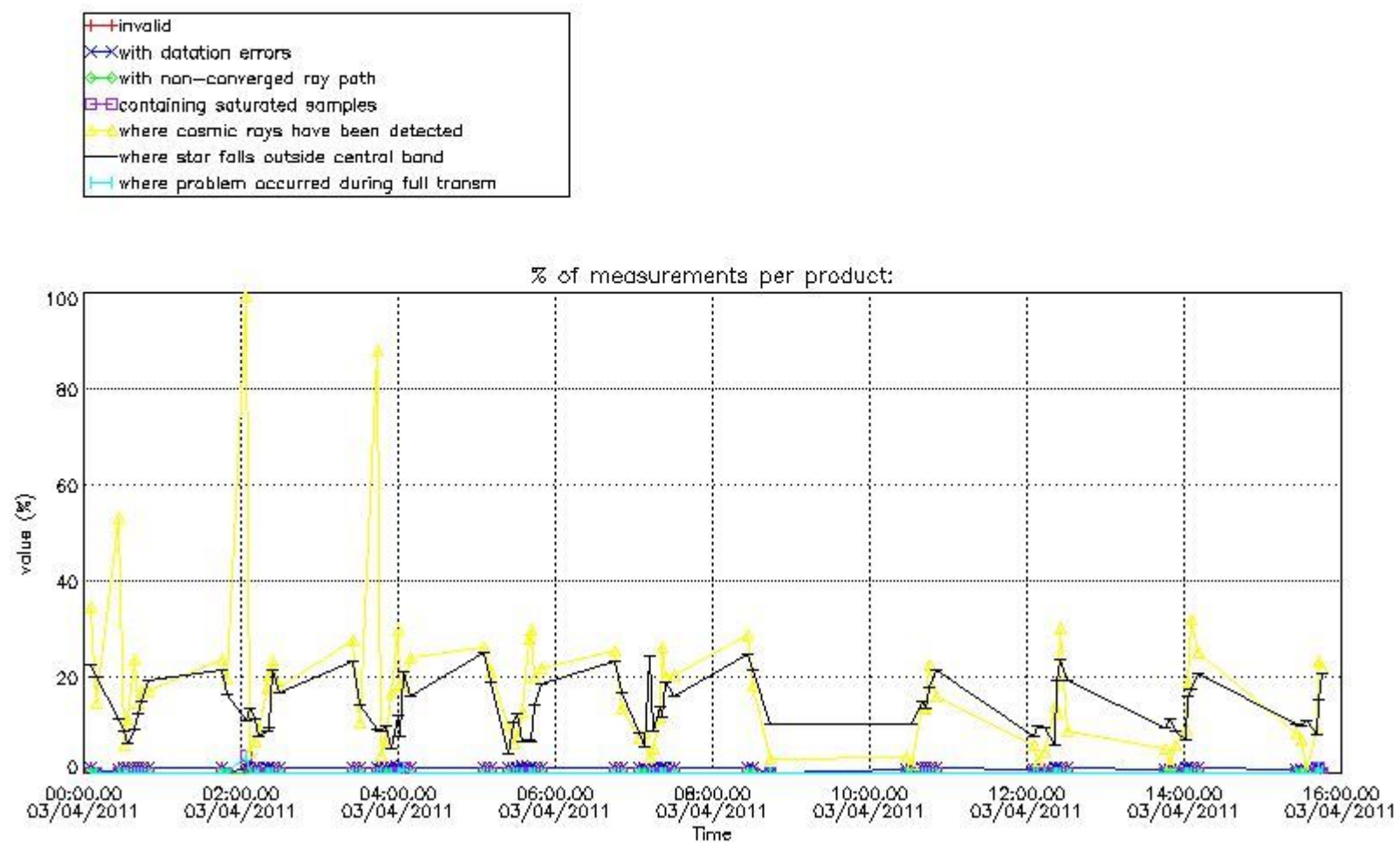


4. Level 1 quality information per product

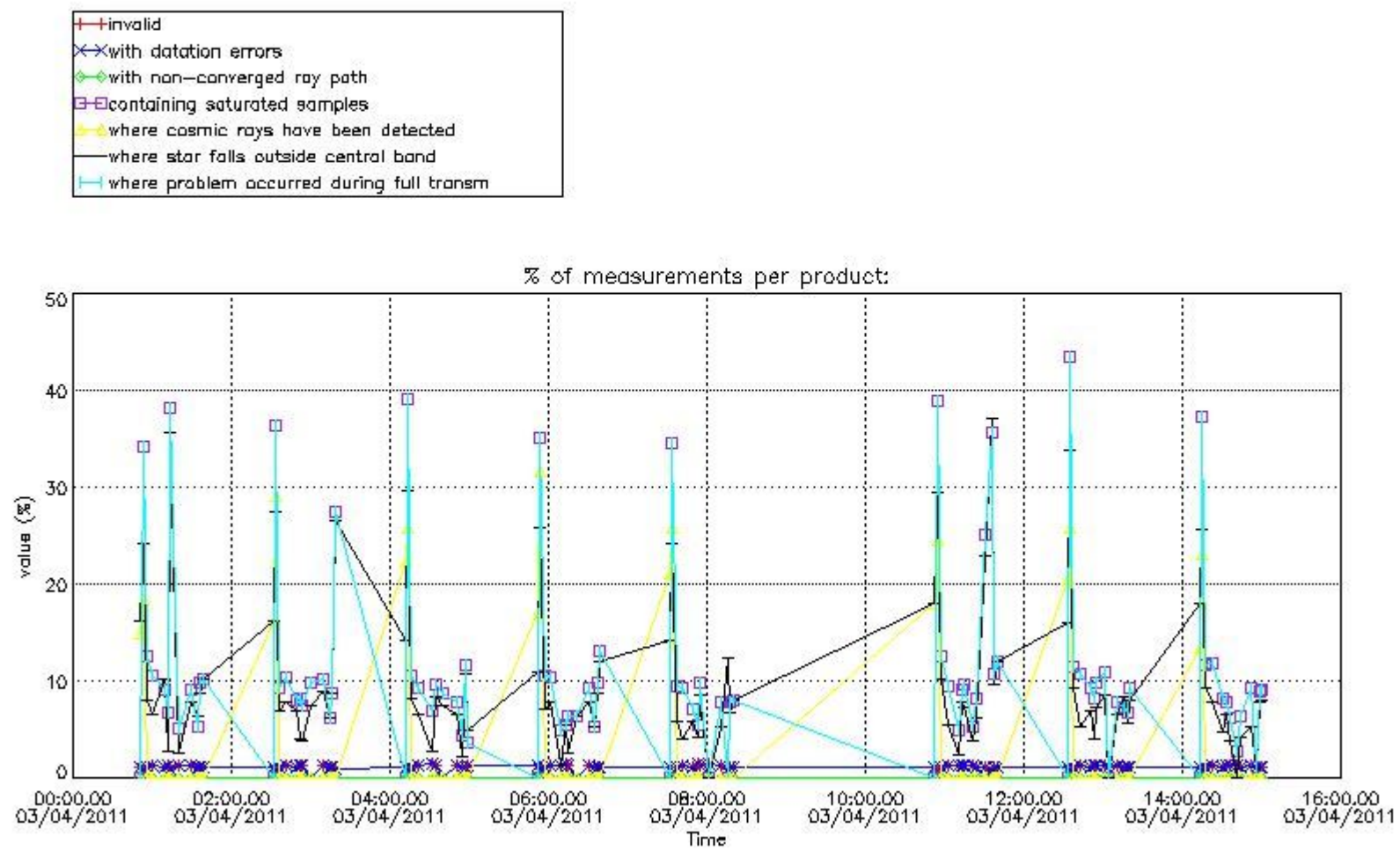
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



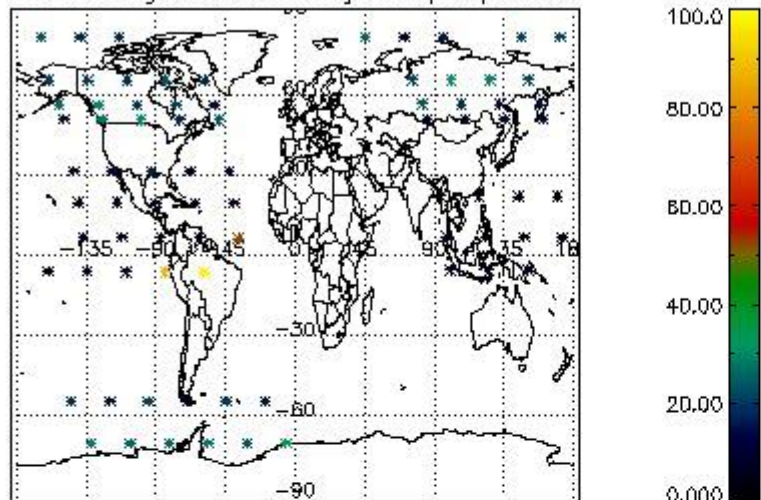
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



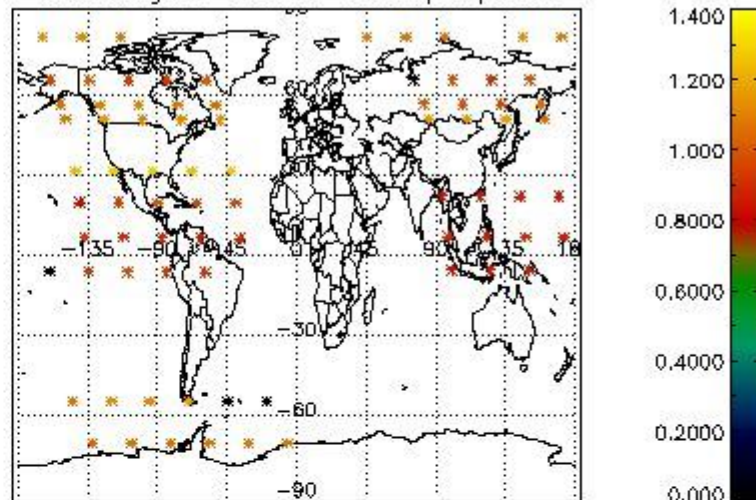
4.2 Plot quality information per product coming from level 1b processing (world map)

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

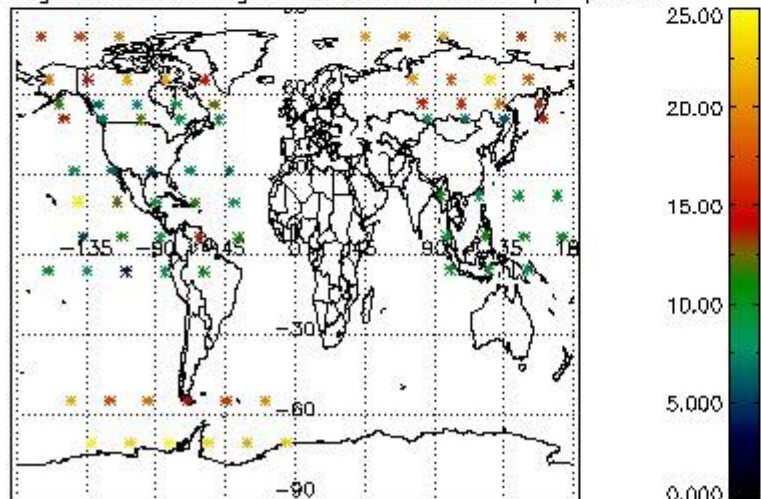
Percentage of cosmic ray hits per profile



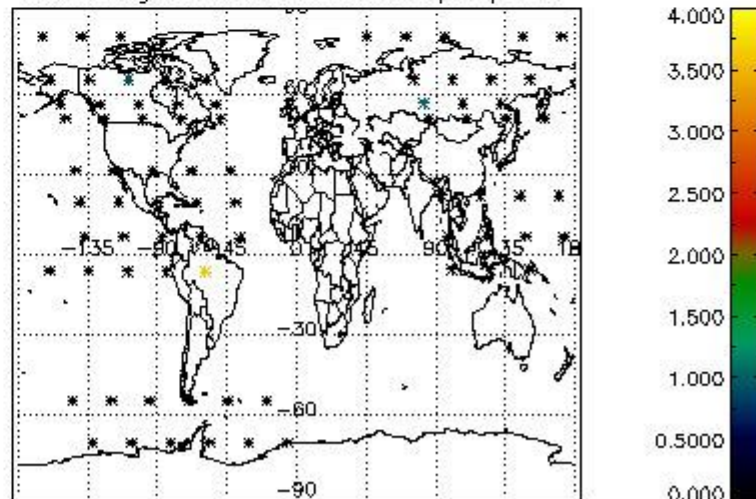
Percentage of datation errors per profile



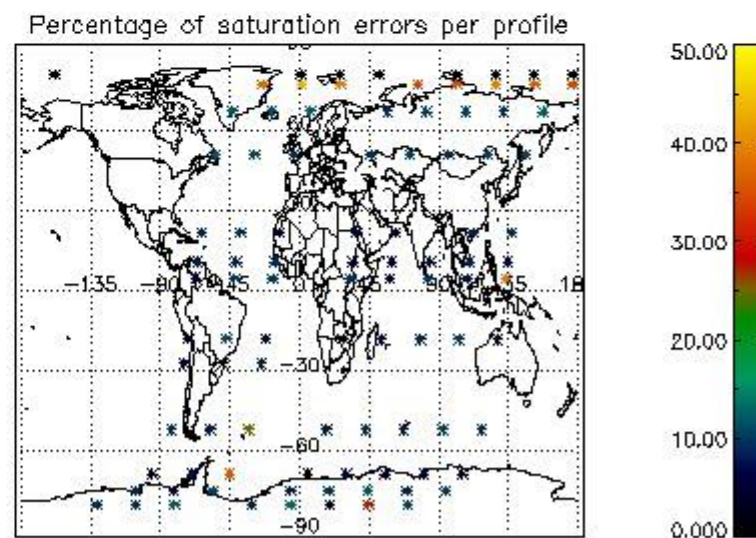
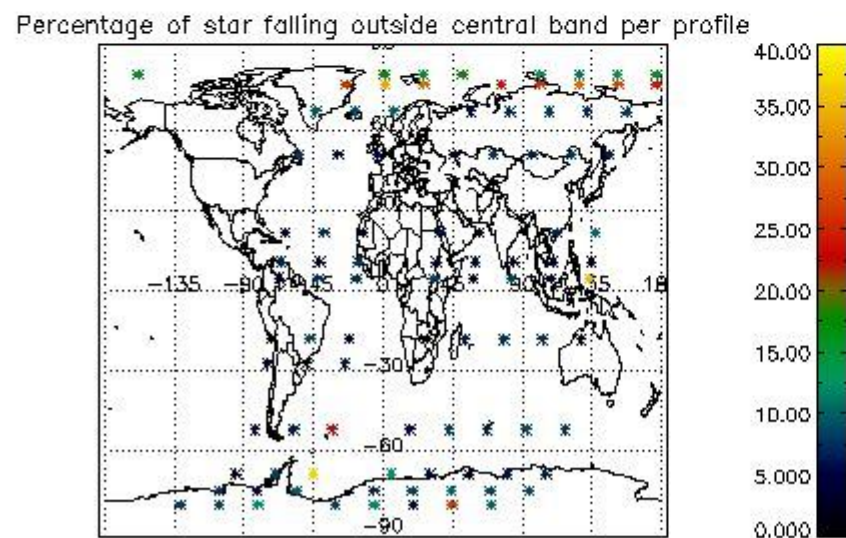
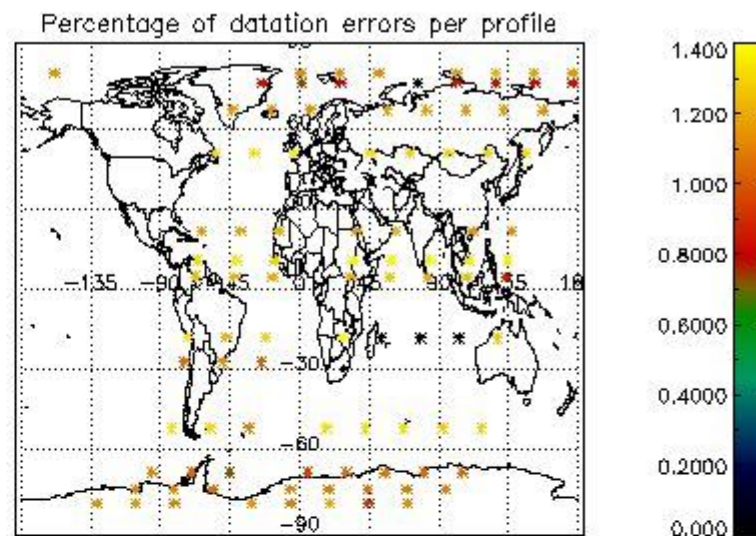
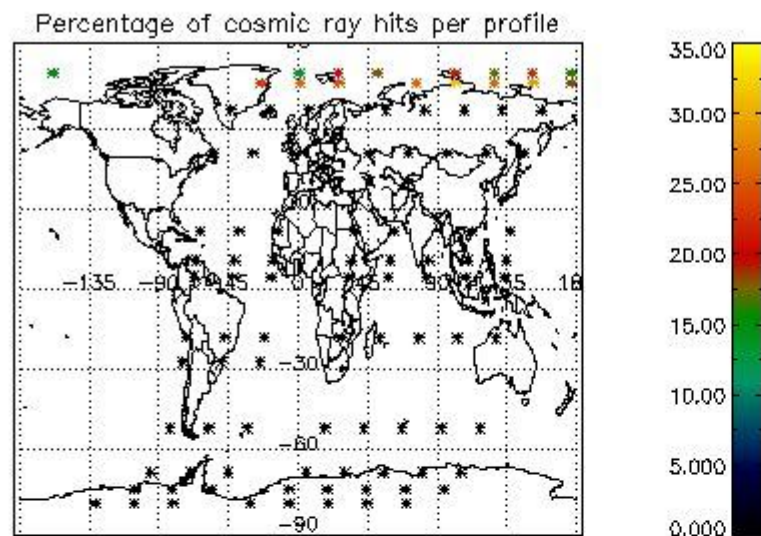
Percentage of star falling outside central band per profile



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

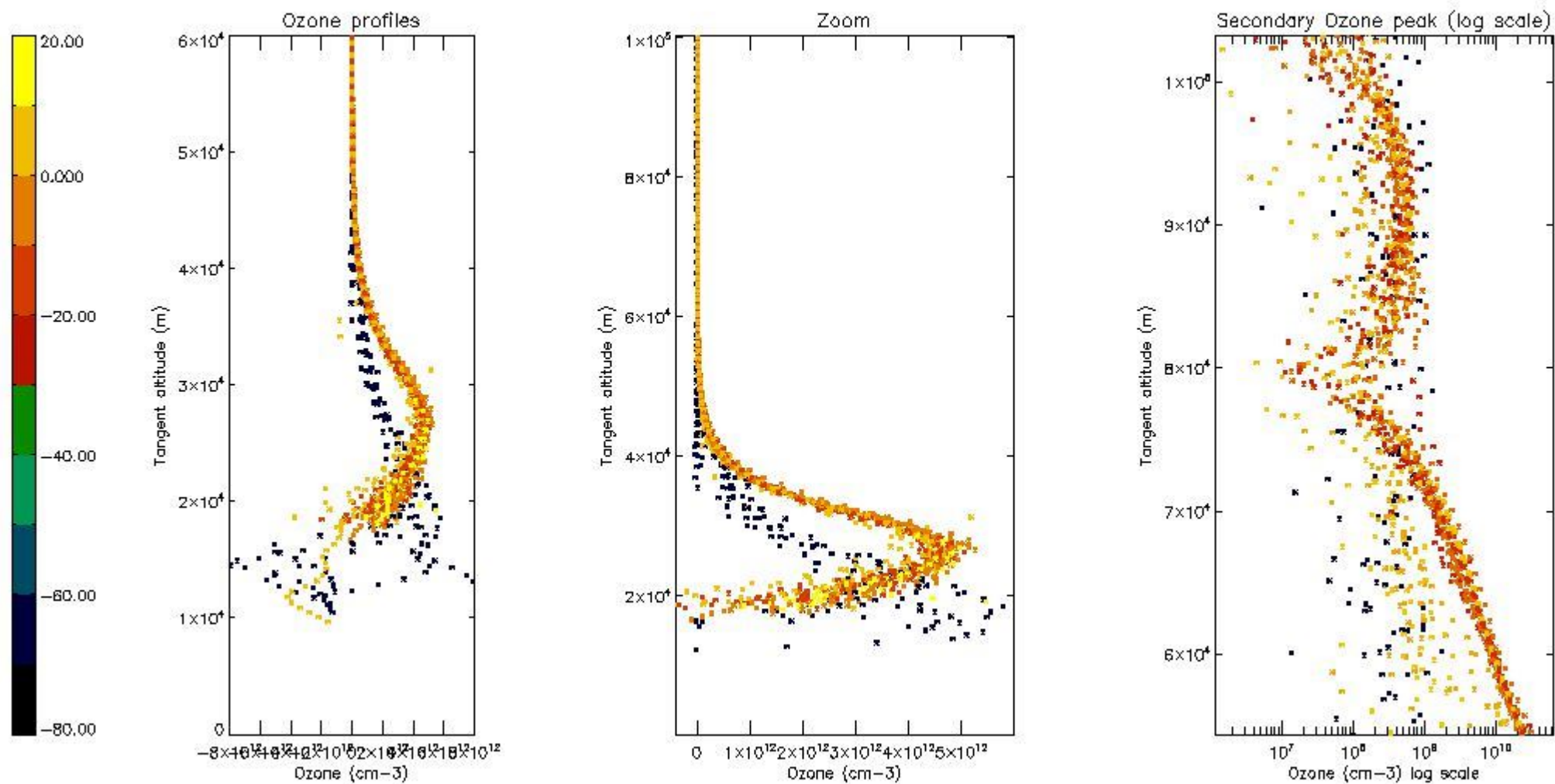
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	12

STD < 10	9
STD < 5	6

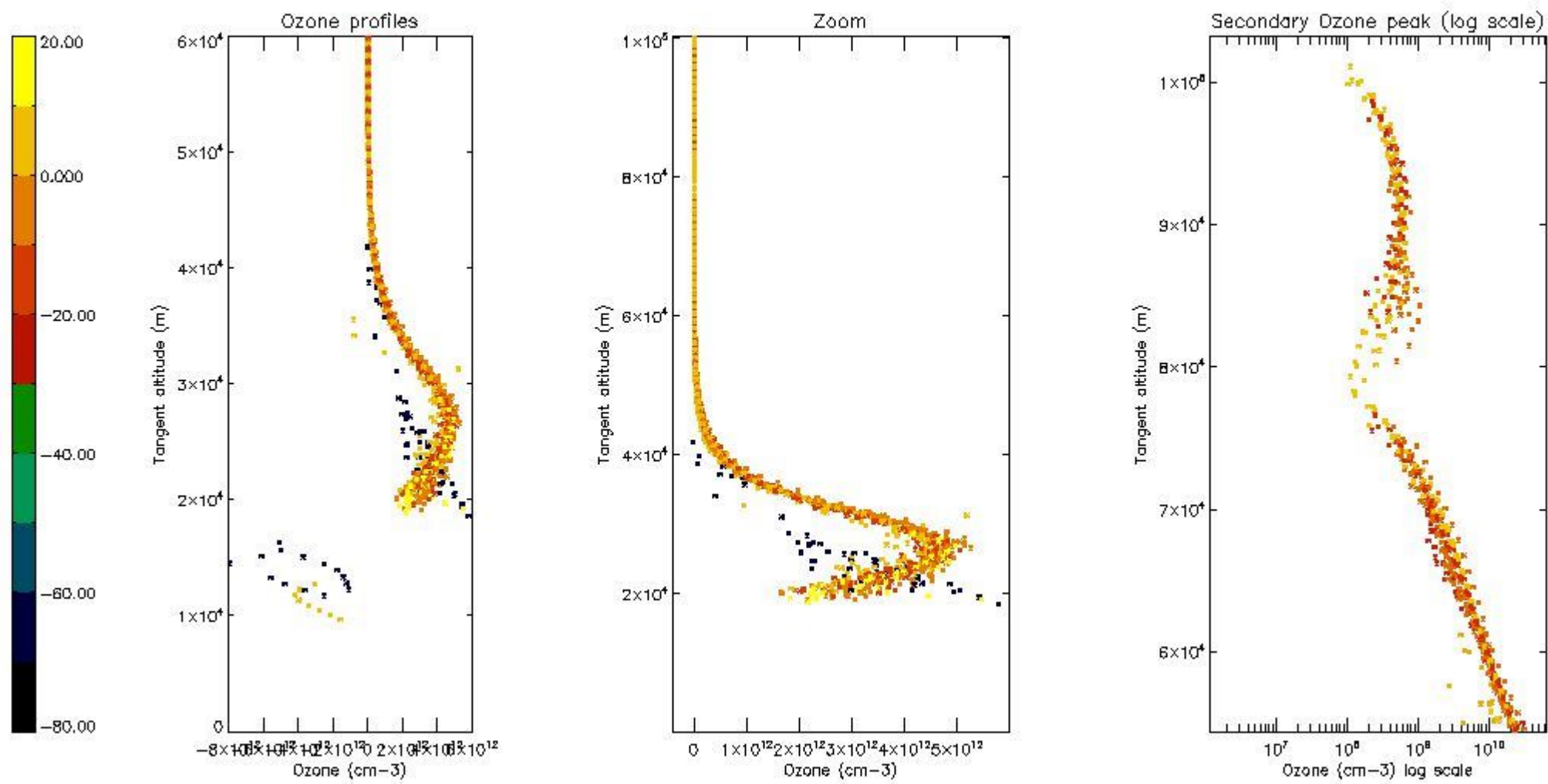
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



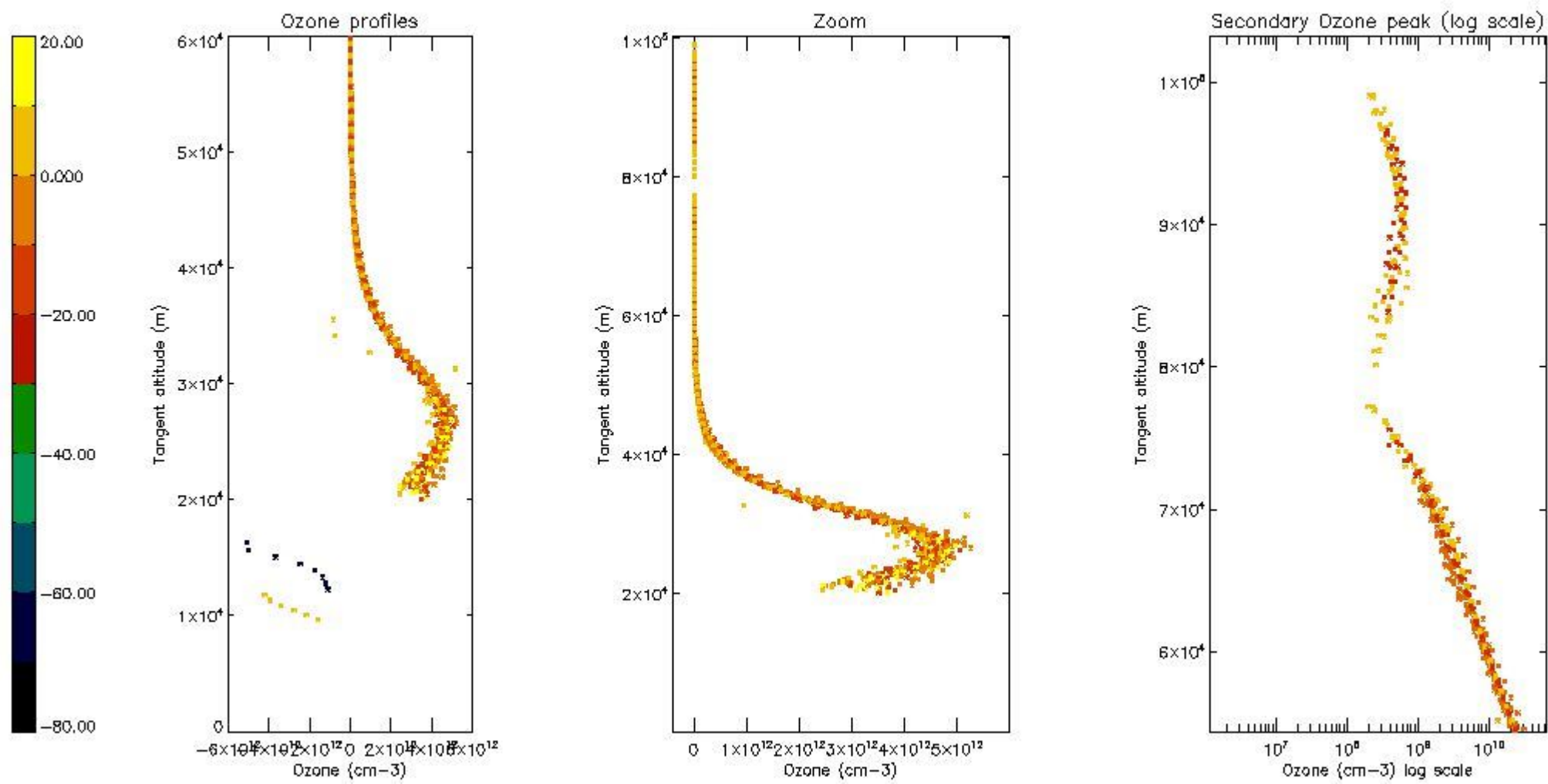
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



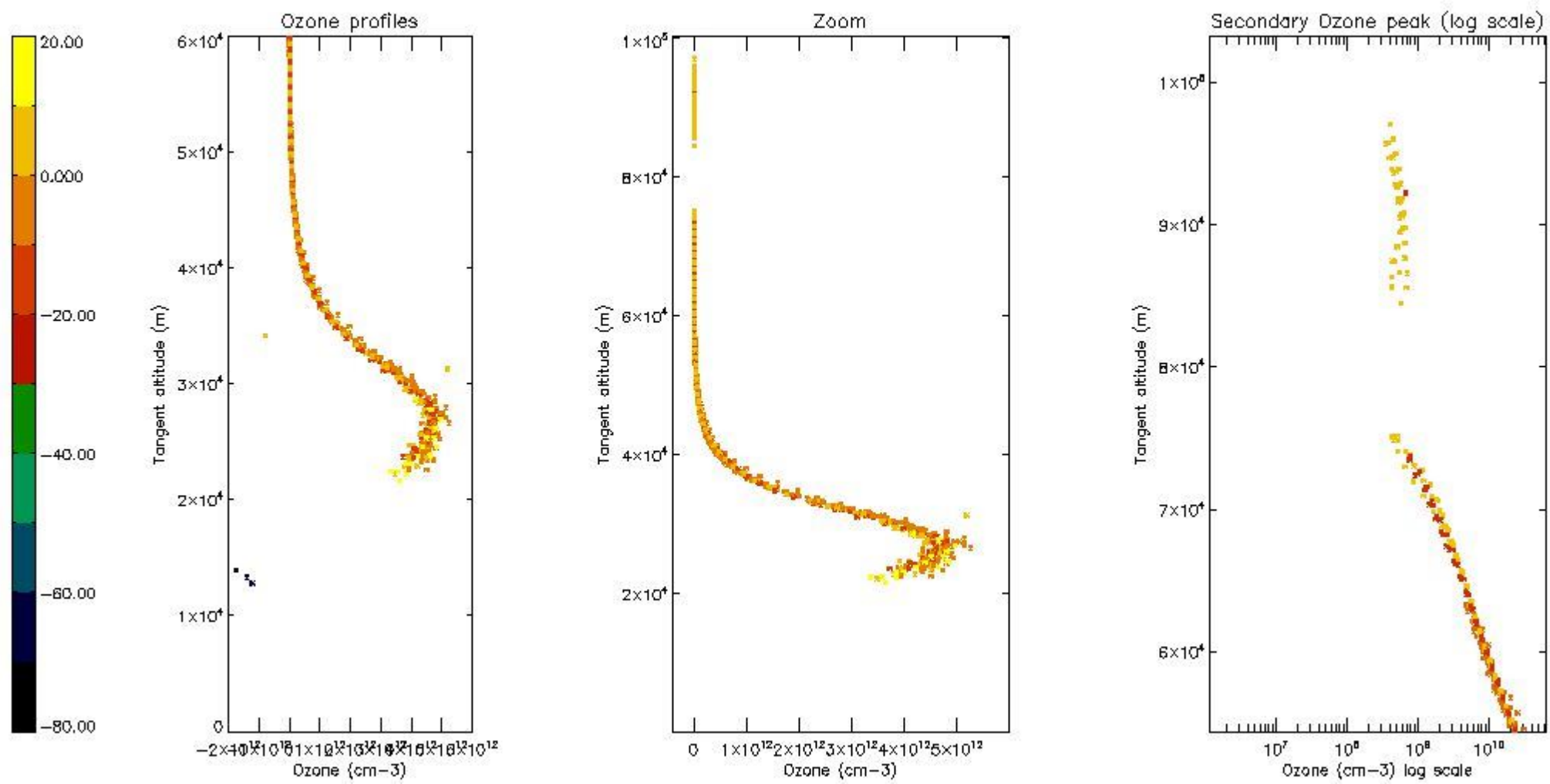
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



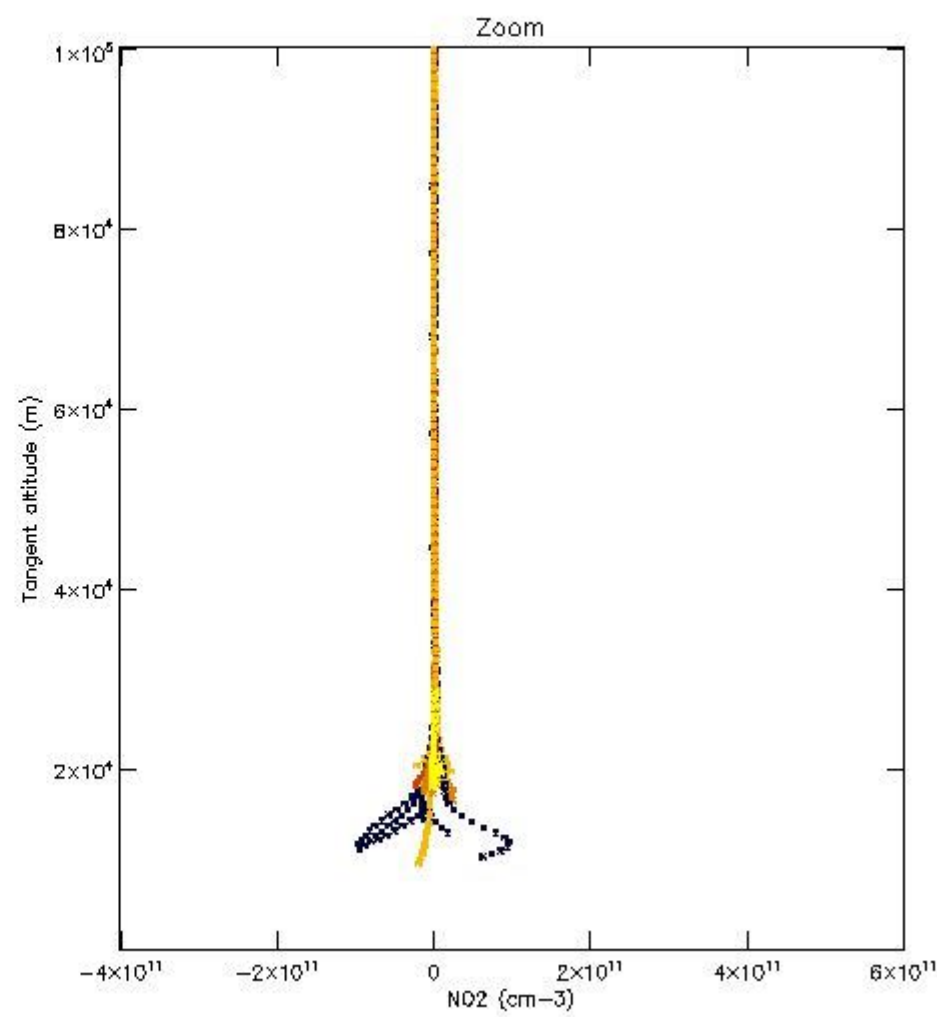
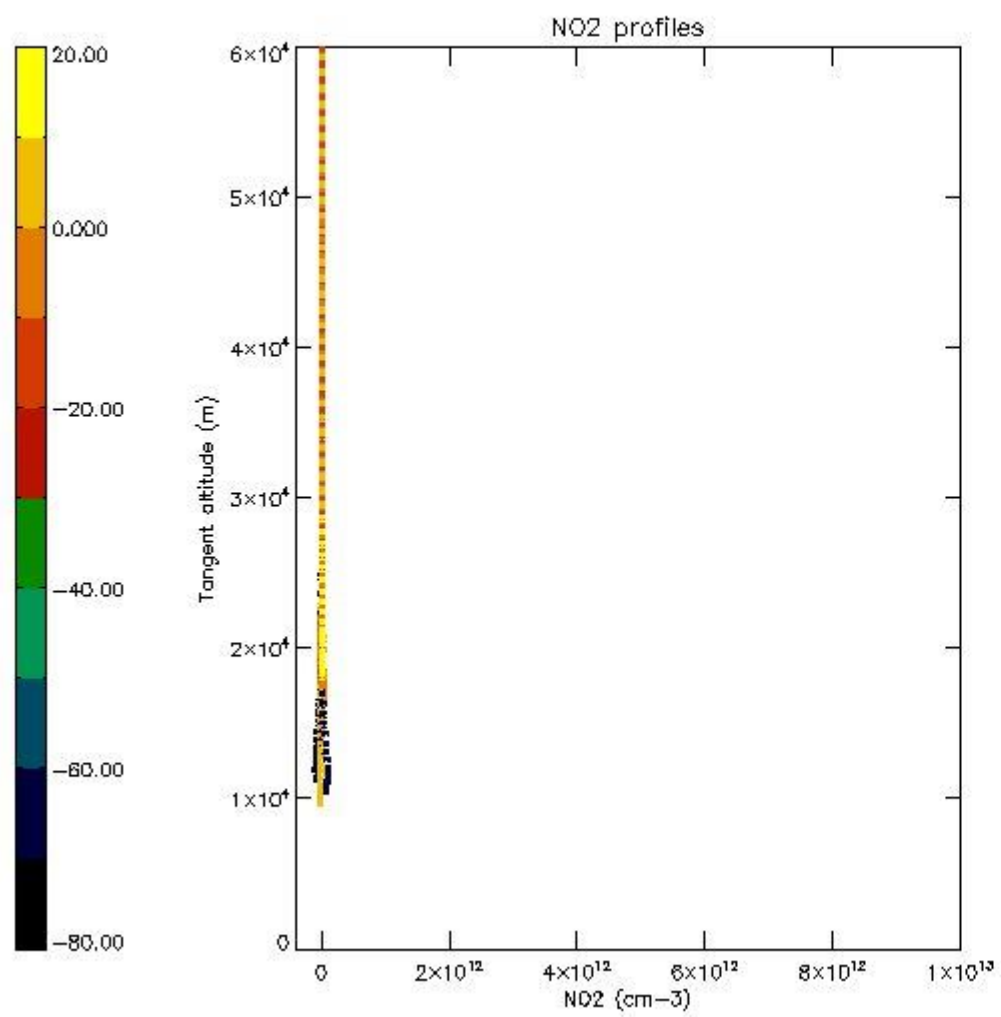
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



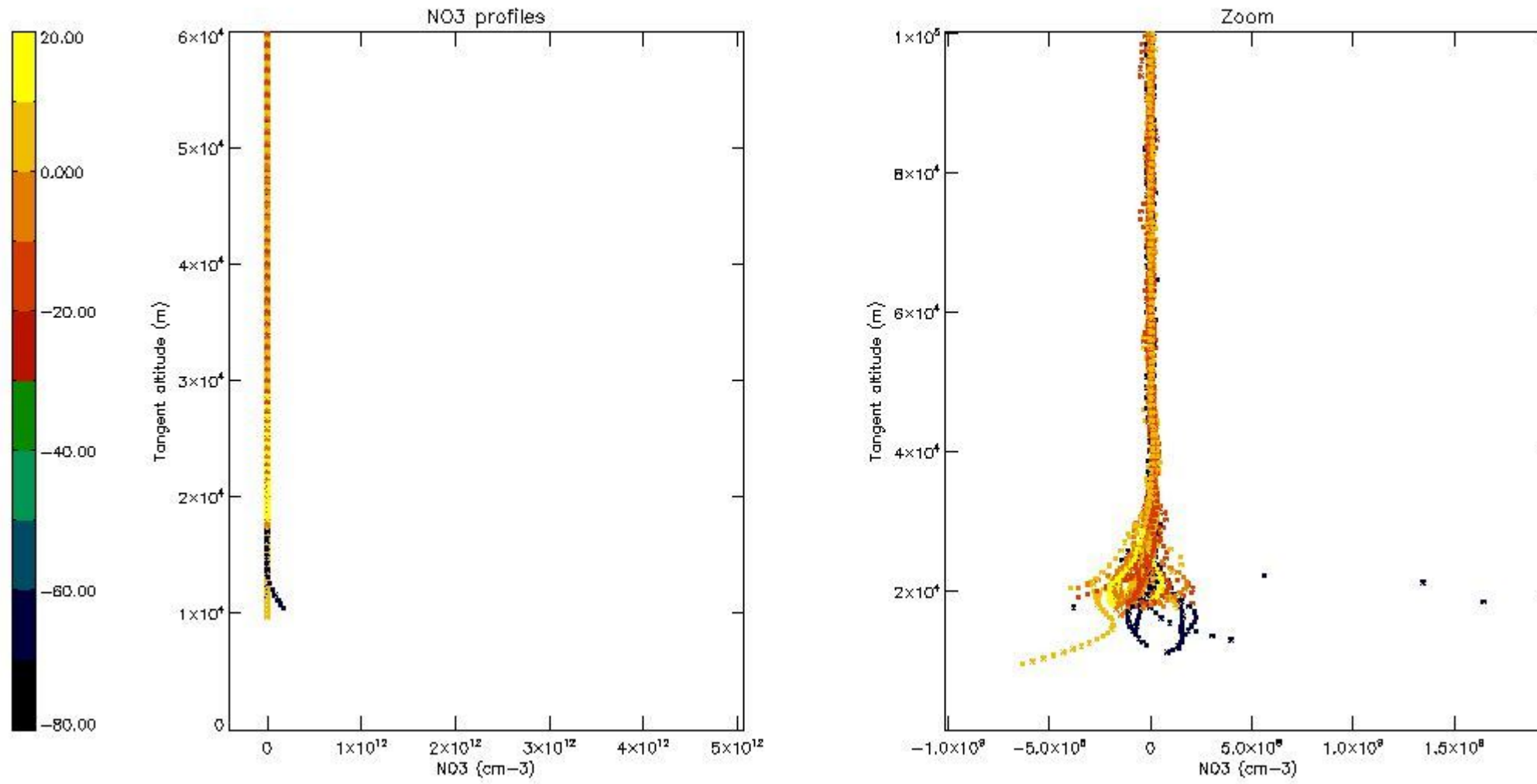
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

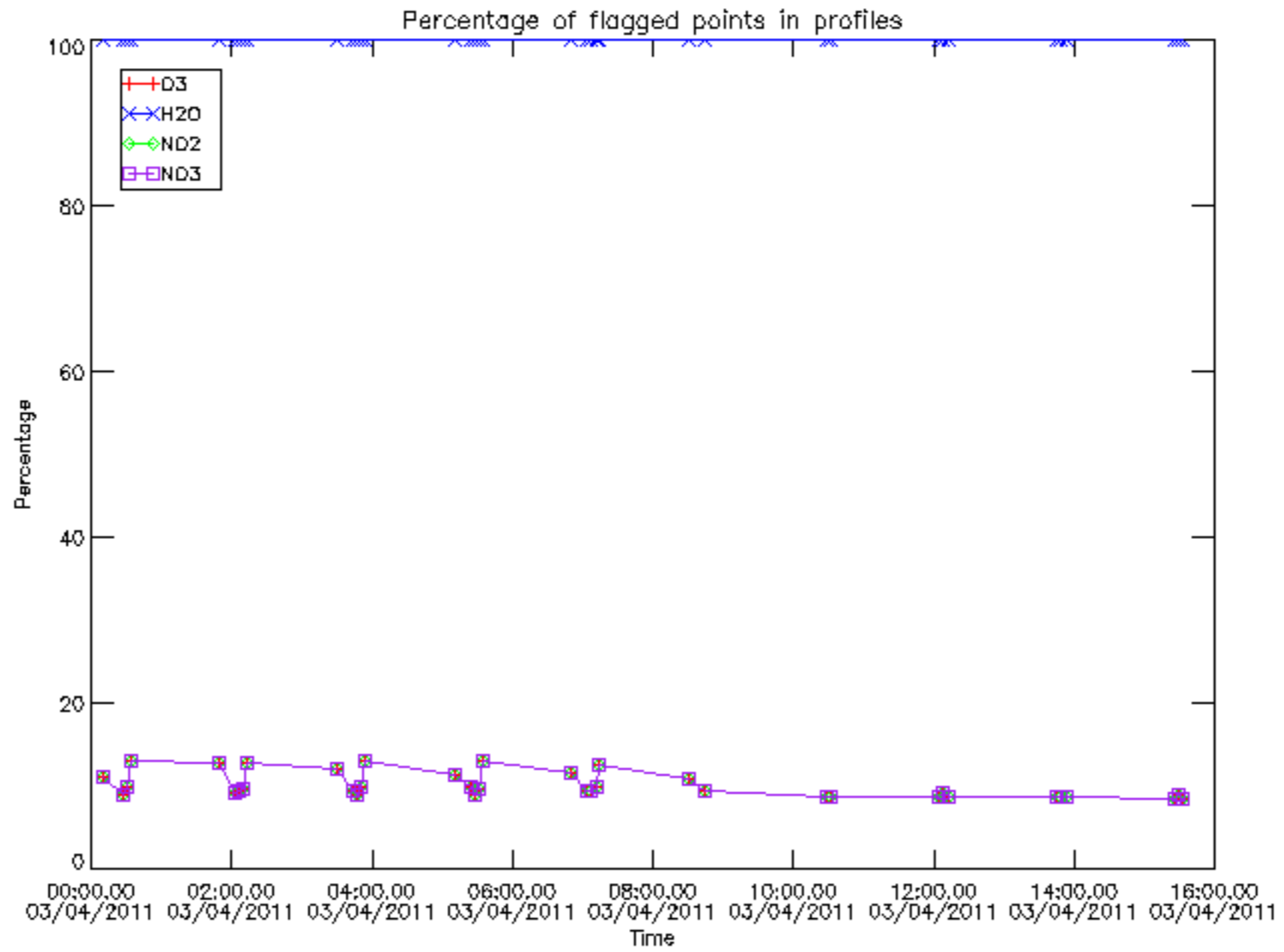
The colorbar represents the latitude.



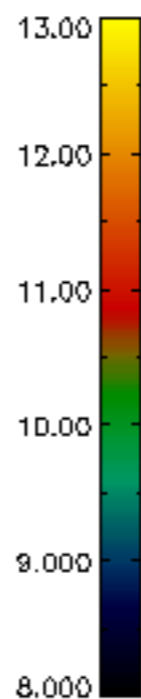
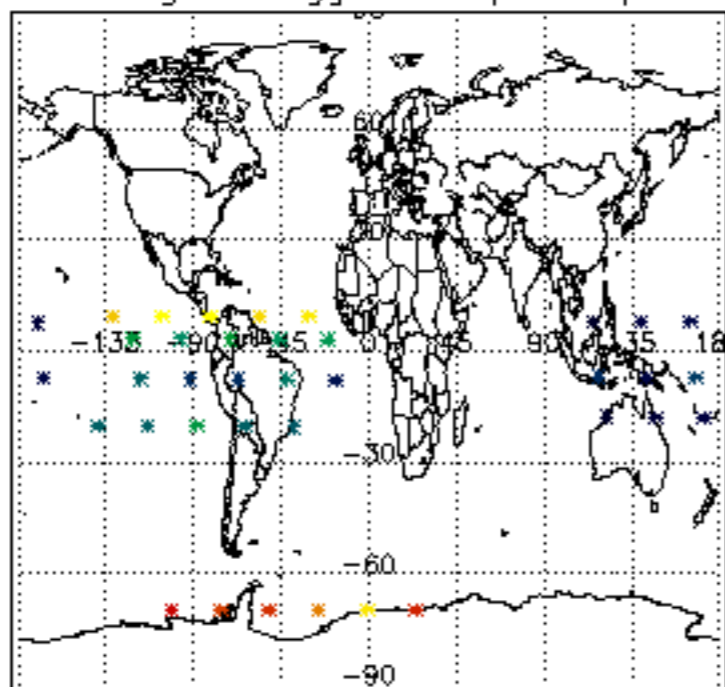
6. Auxiliary Data Files used for the production reported in section 2

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.

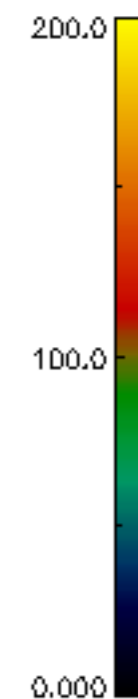
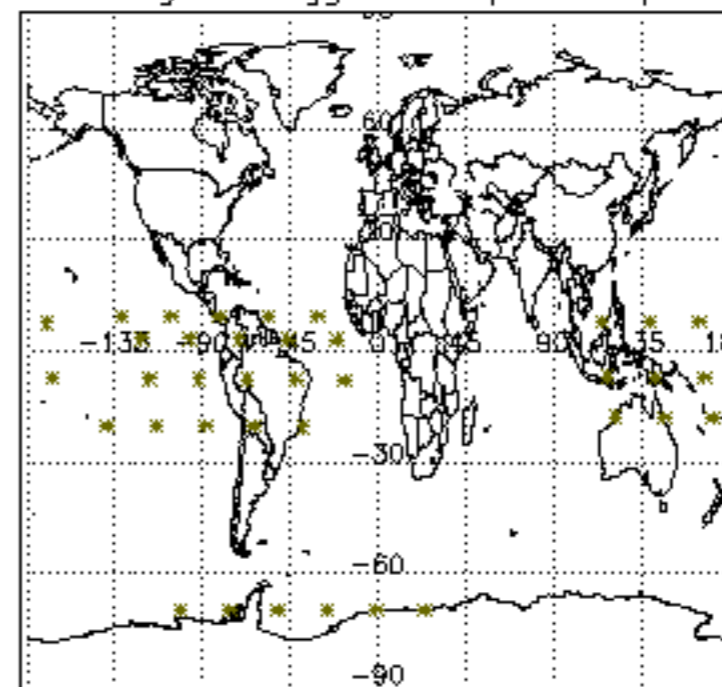
Type	Auxiliary Filename	Used since product	Used since product date
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LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-APR-2011 00:04:55
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-APR-2011 00:04:55



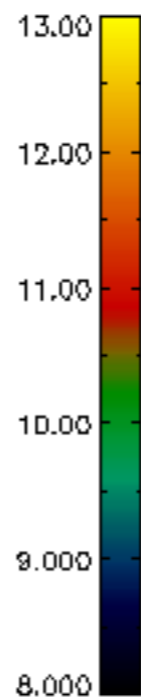
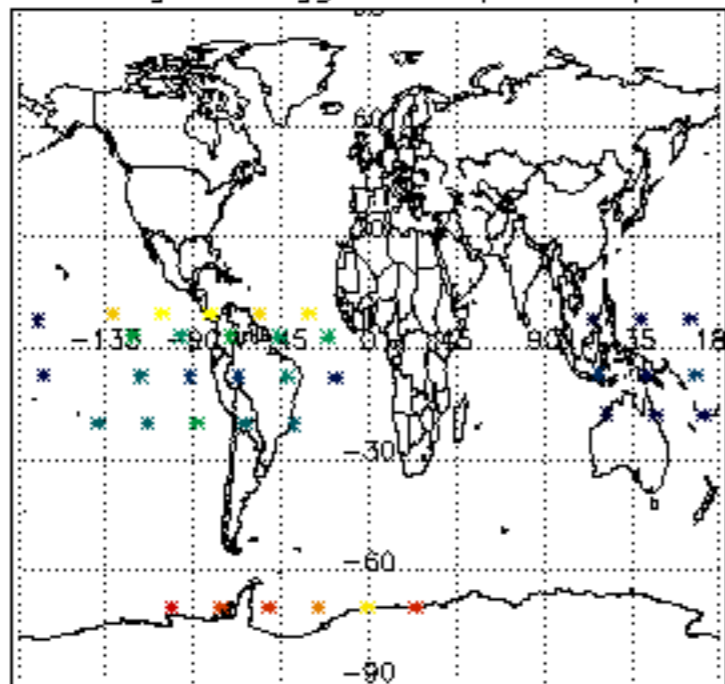
Percentage of flagged data per D3 profile



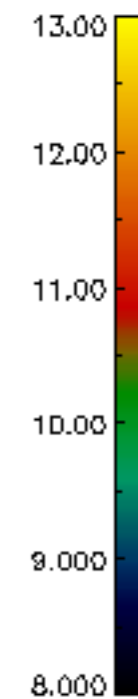
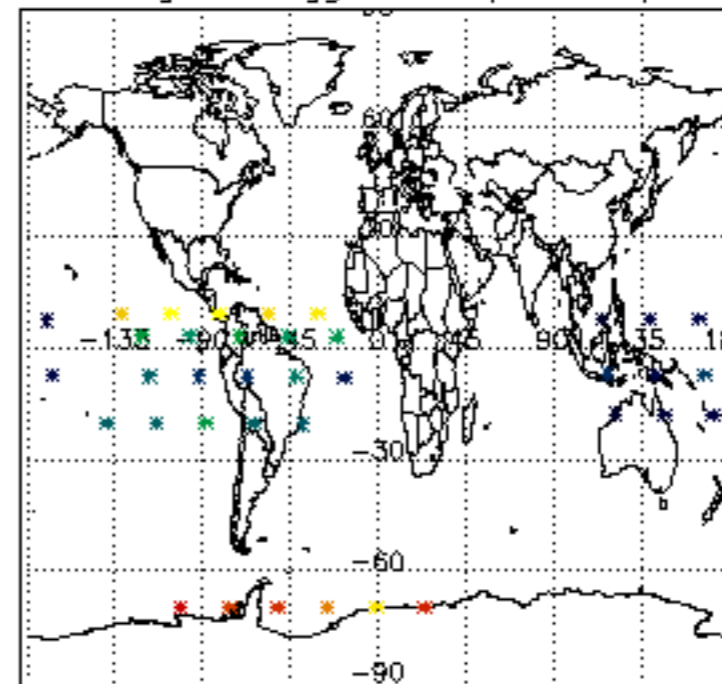
Percentage of flagged data per H2O profile

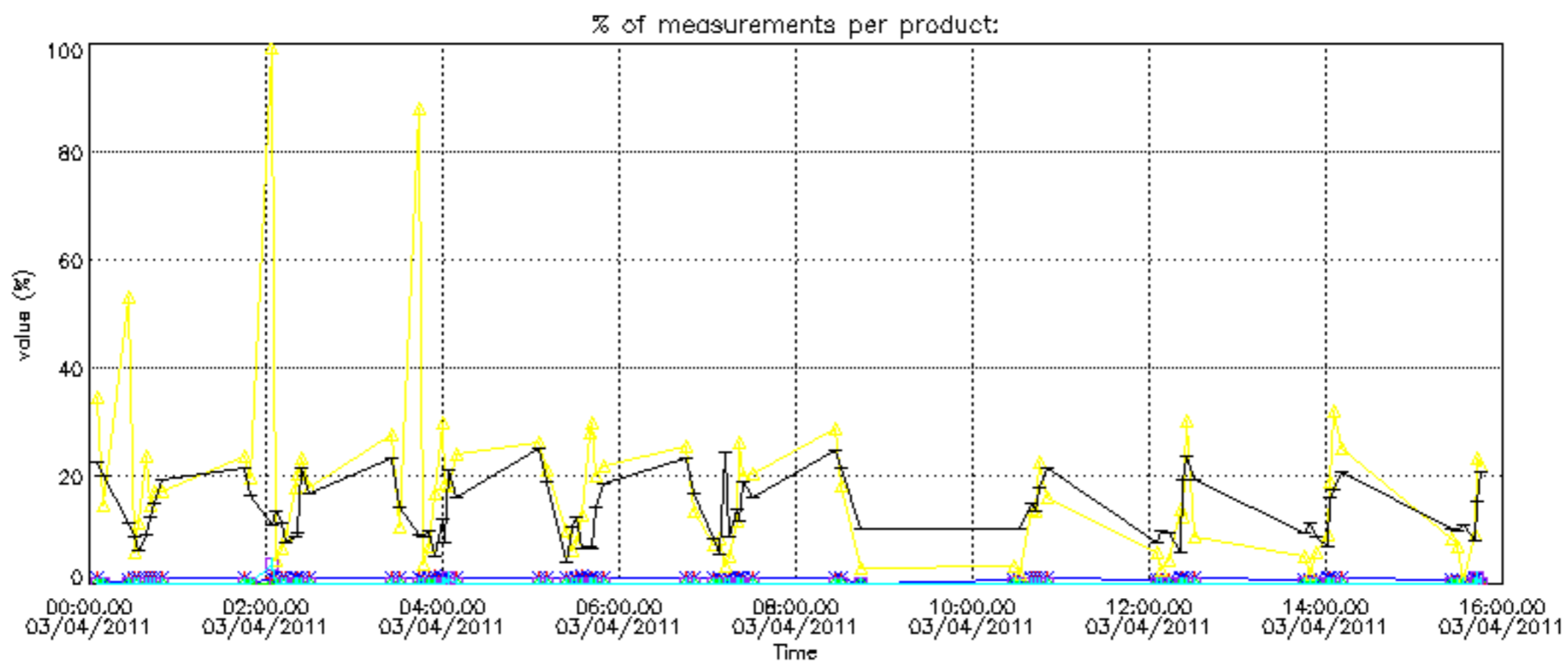


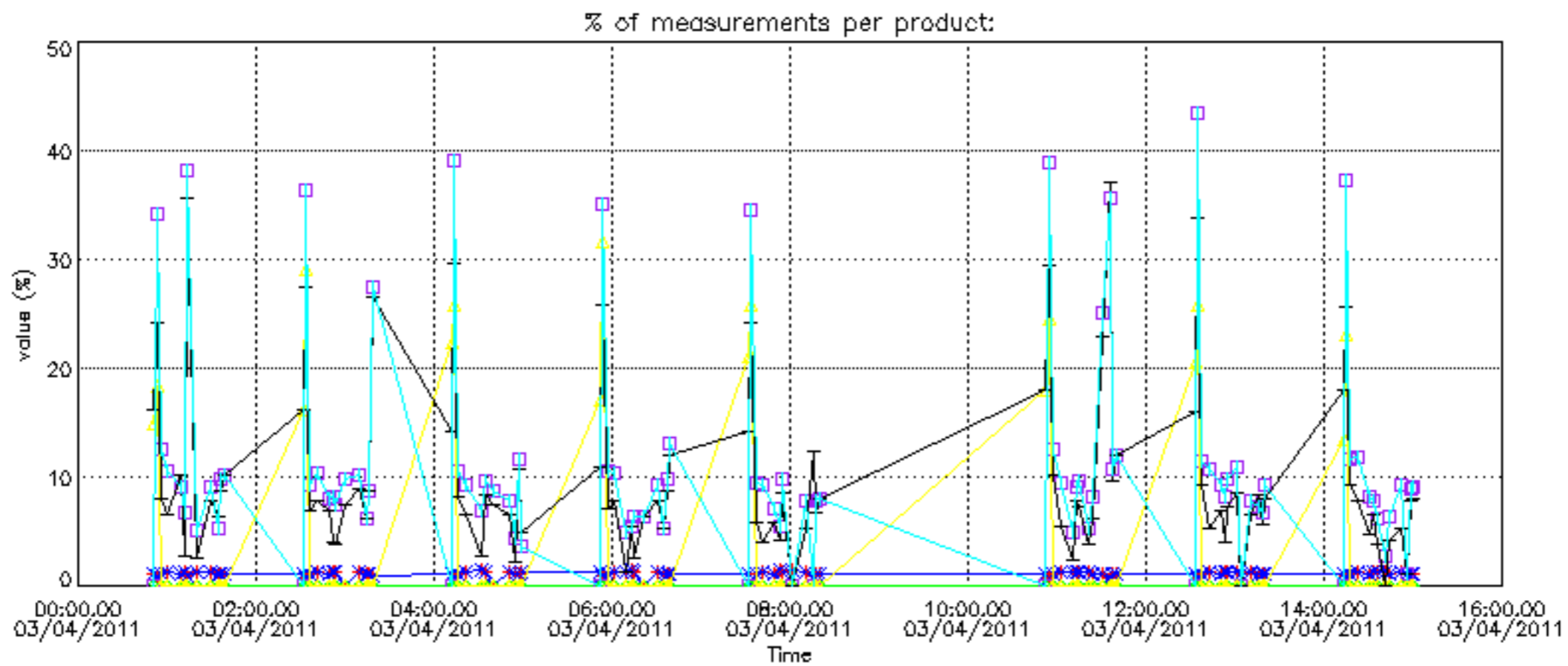
Percentage of flagged data per NO2 profile



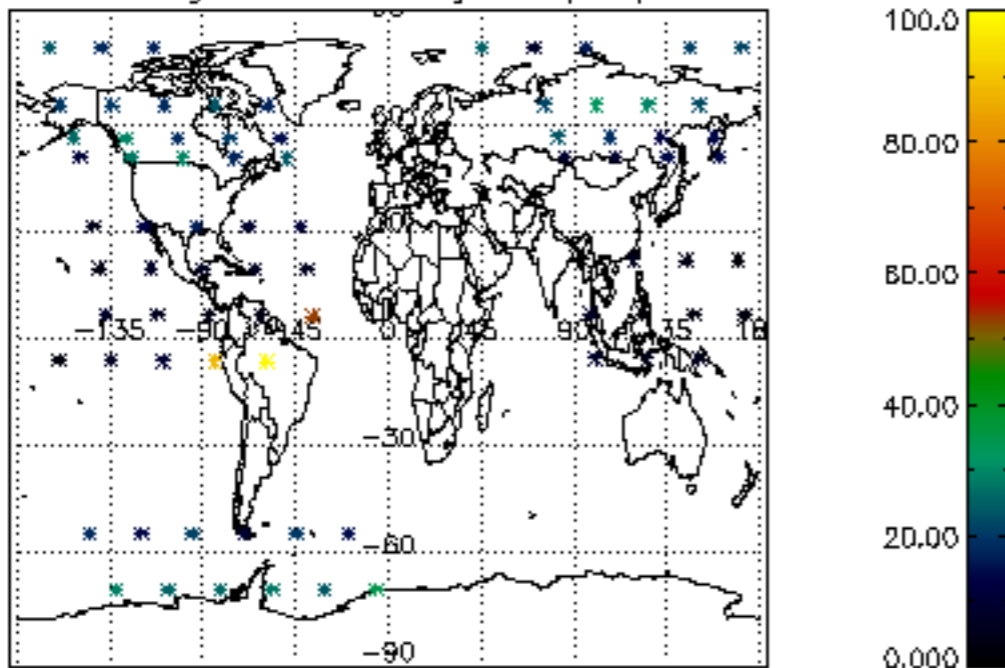
Percentage of flagged data per NO3 profile



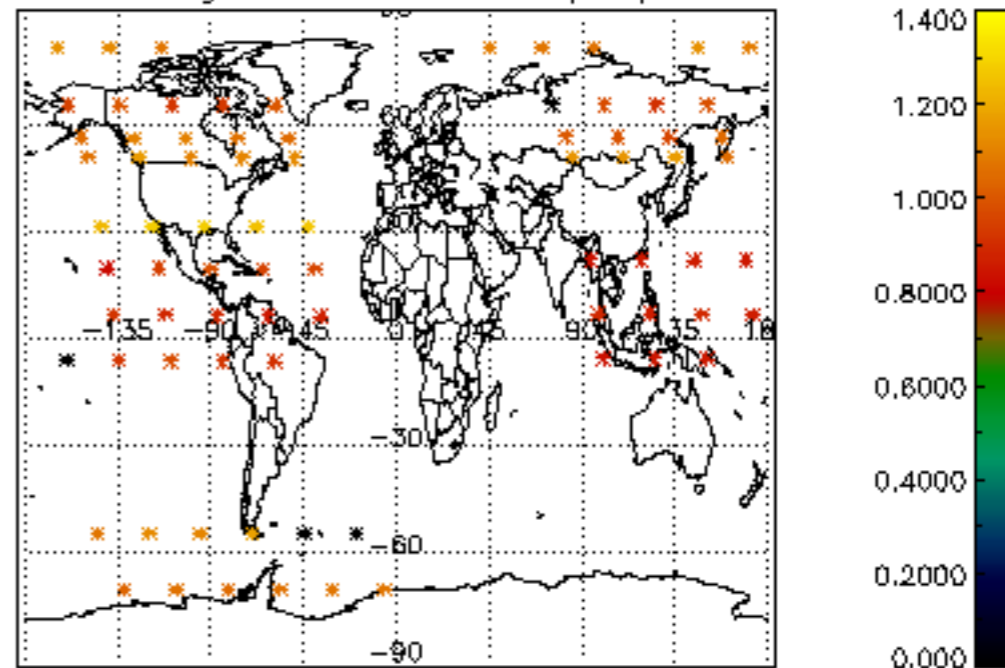




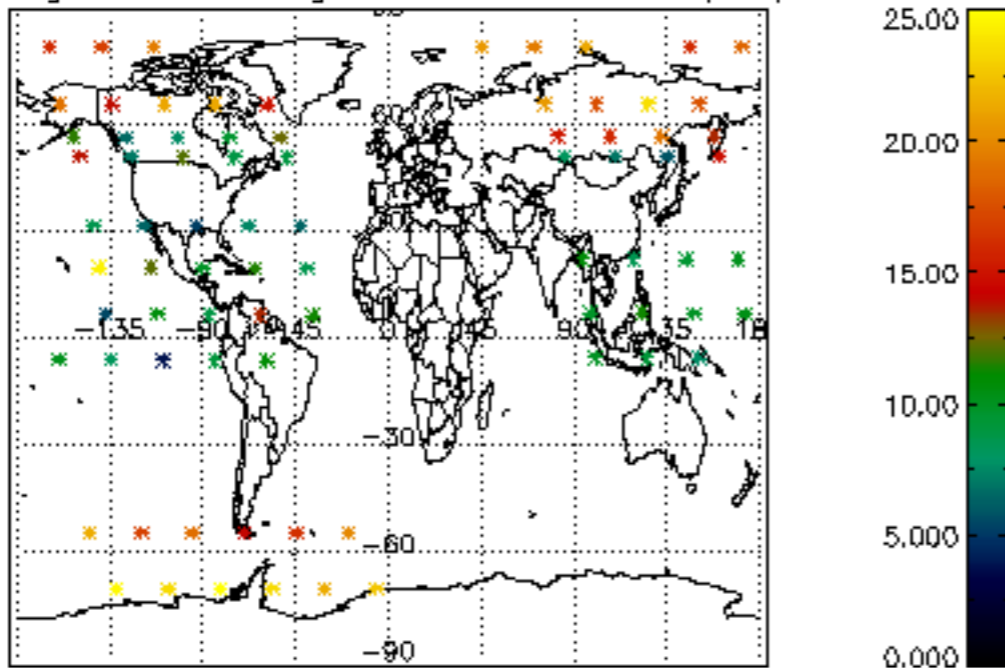
Percentage of cosmic ray hits per profile



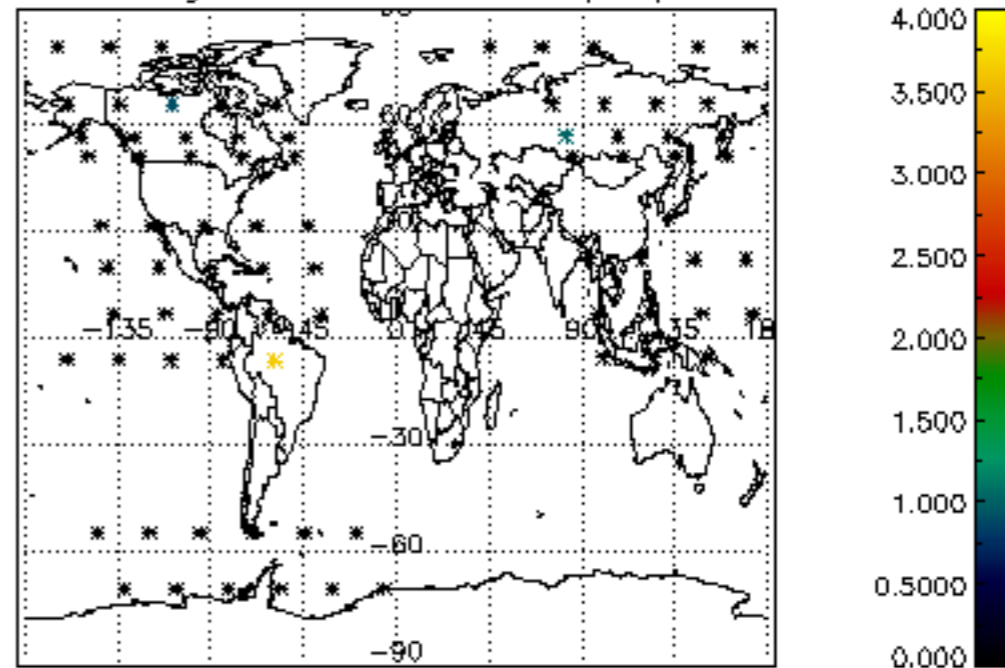
Percentage of datation errors per profile



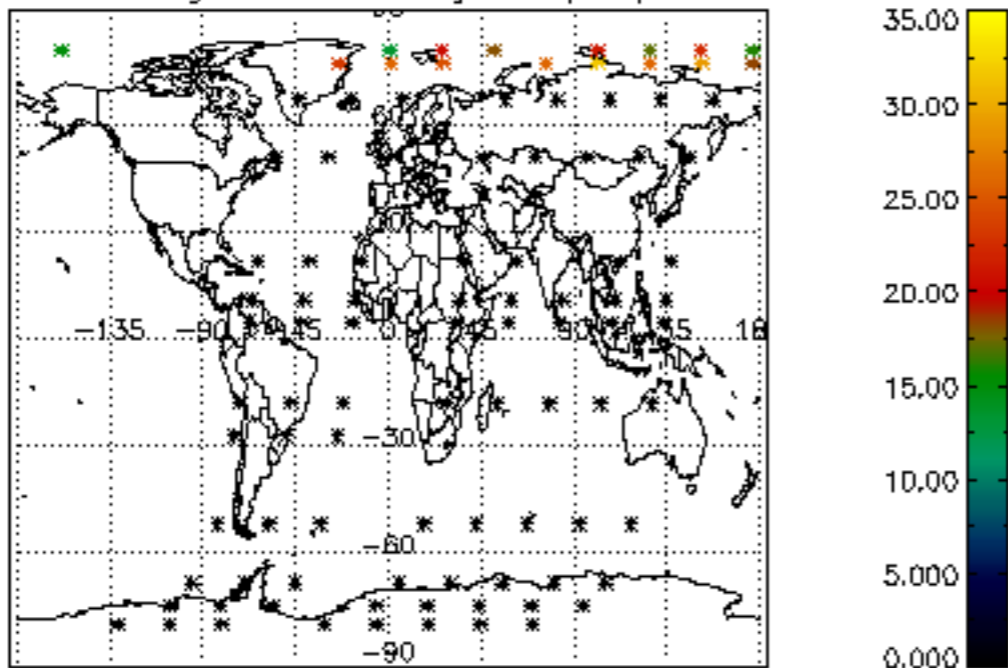
Percentage of star falling outside central band per profile



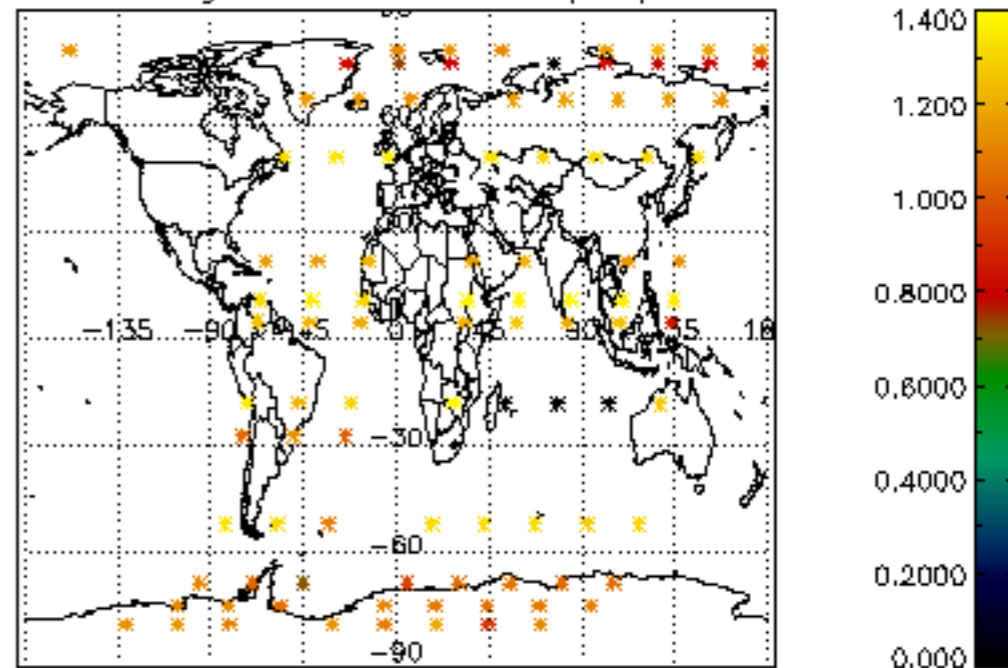
Percentage of saturation errors per profile



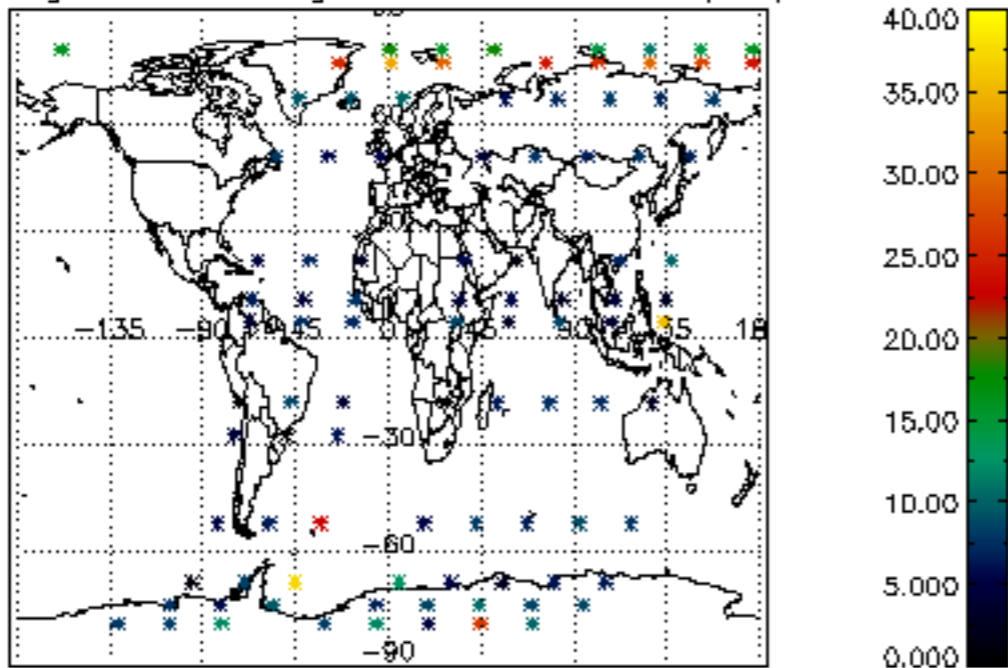
Percentage of cosmic ray hits per profile



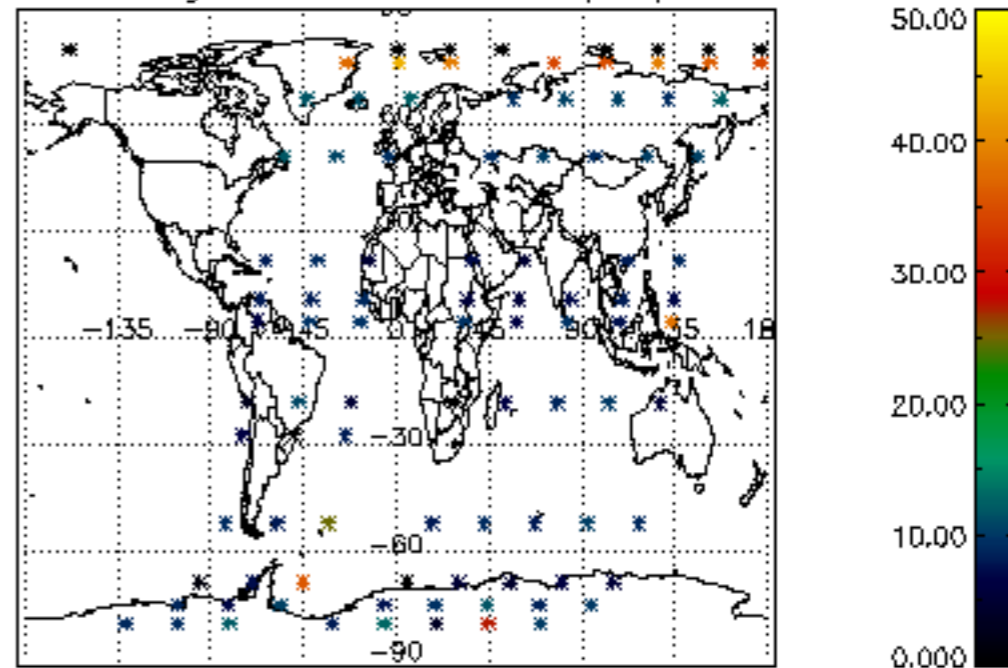
Percentage of datation errors per profile

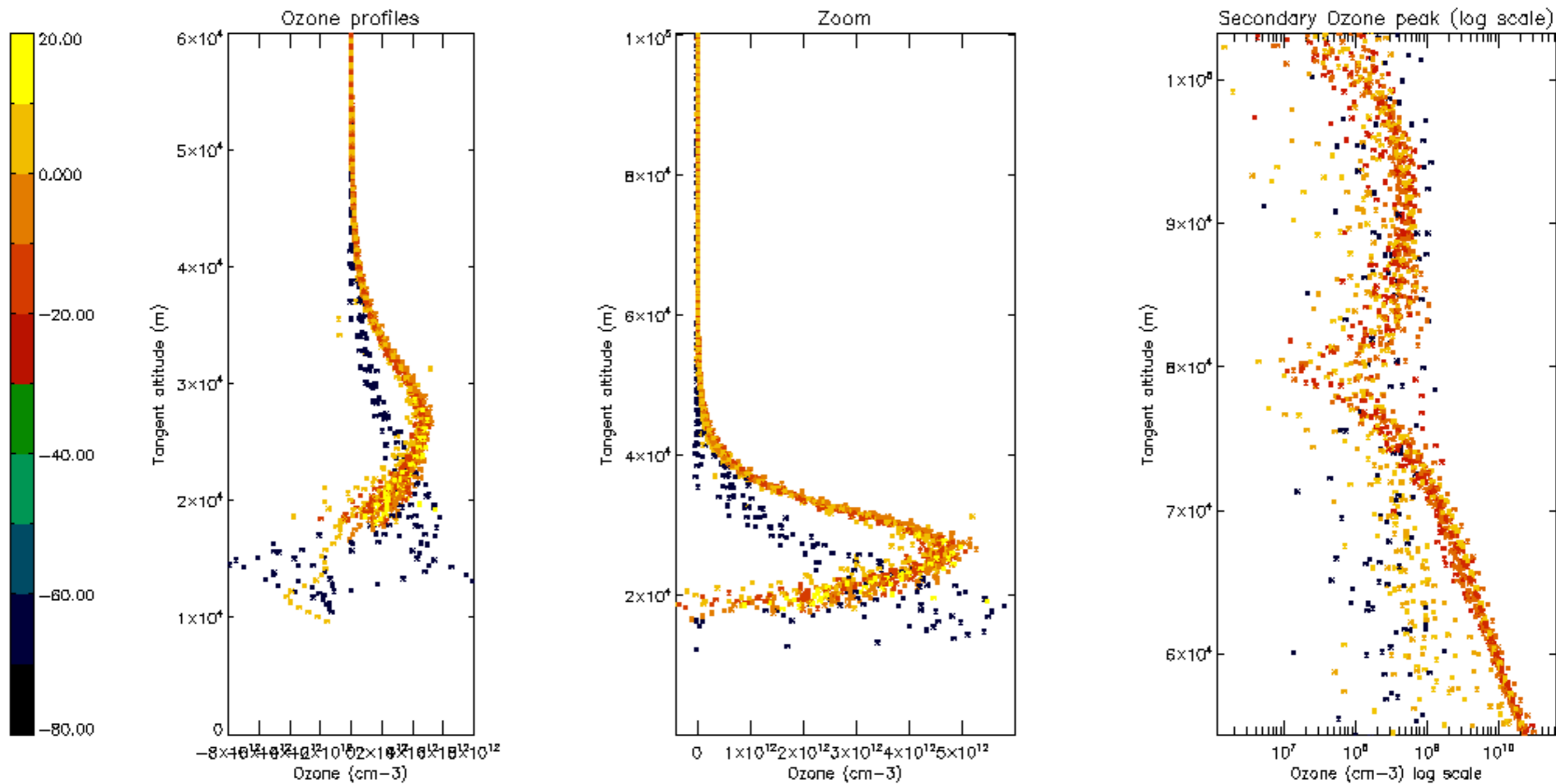


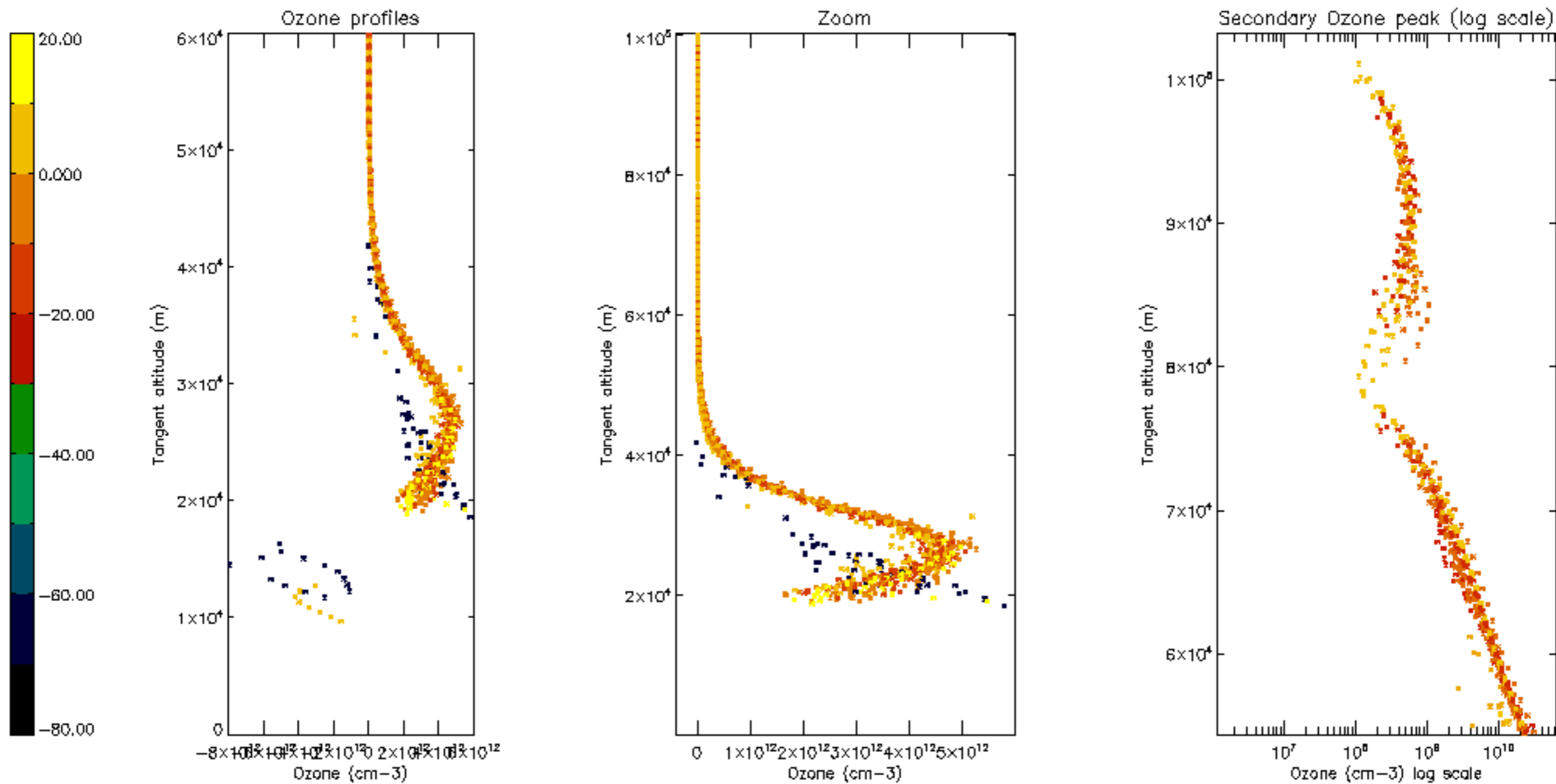
Percentage of star falling outside central band per profile

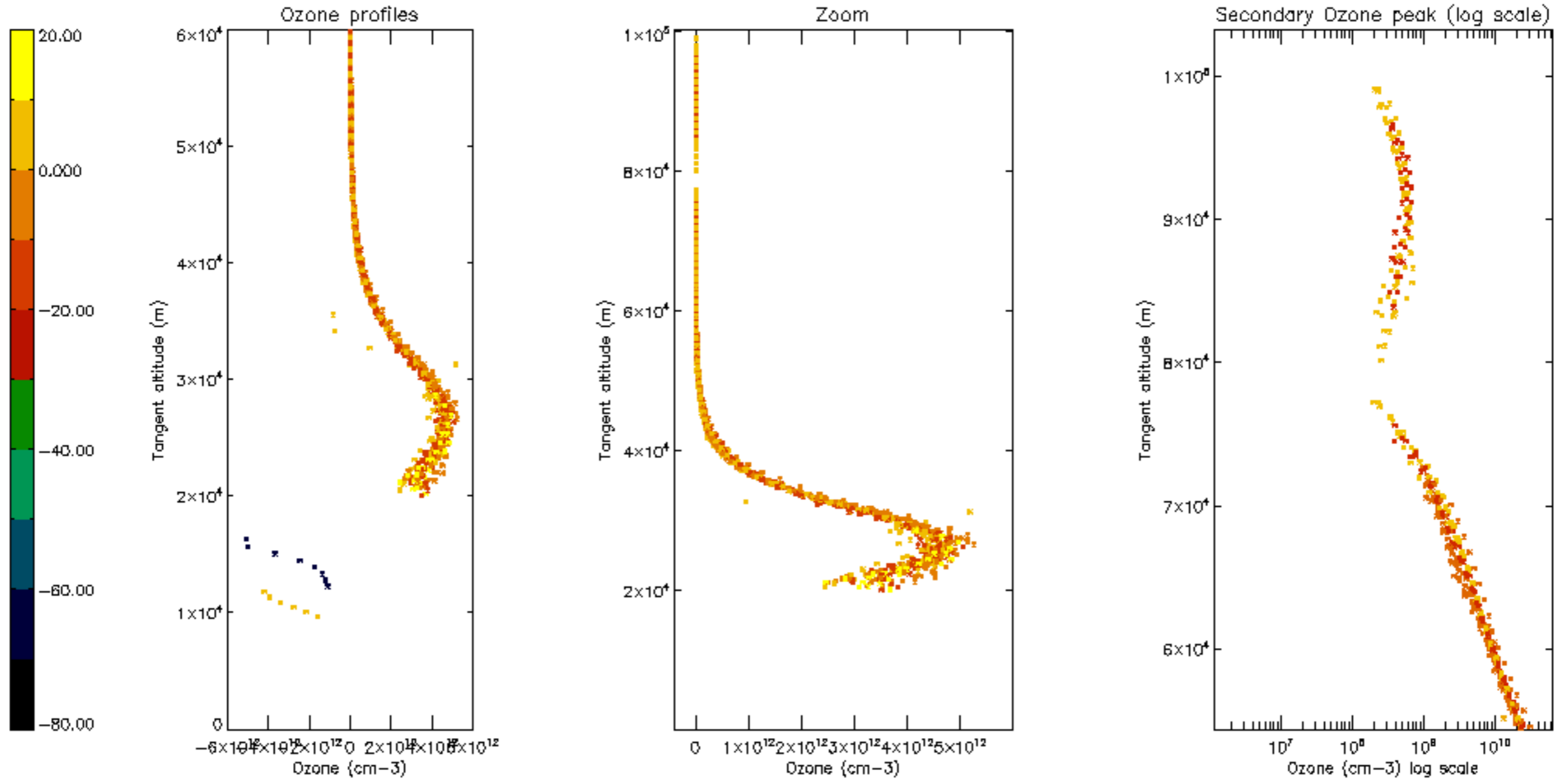


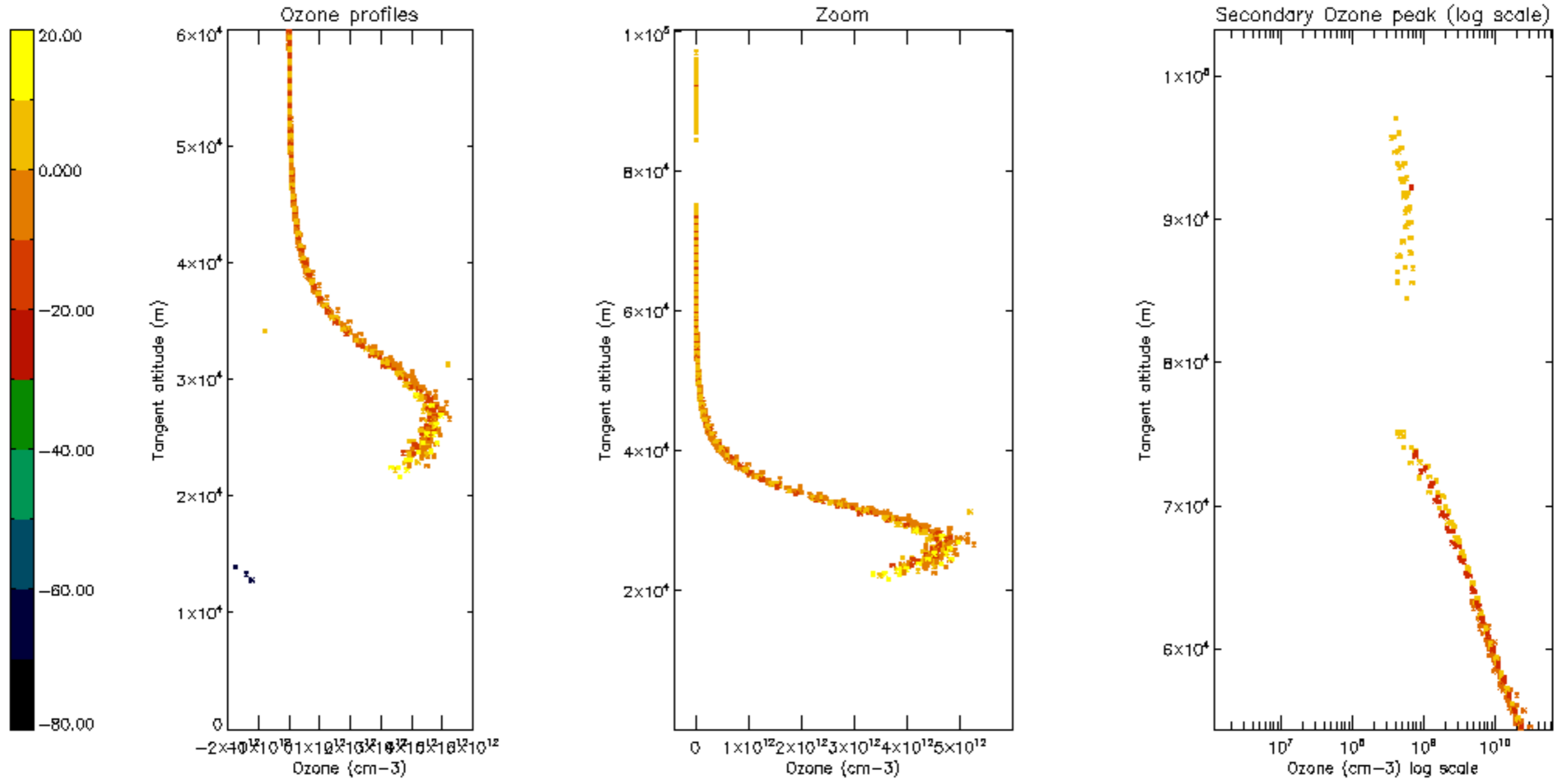
Percentage of saturation errors per profile

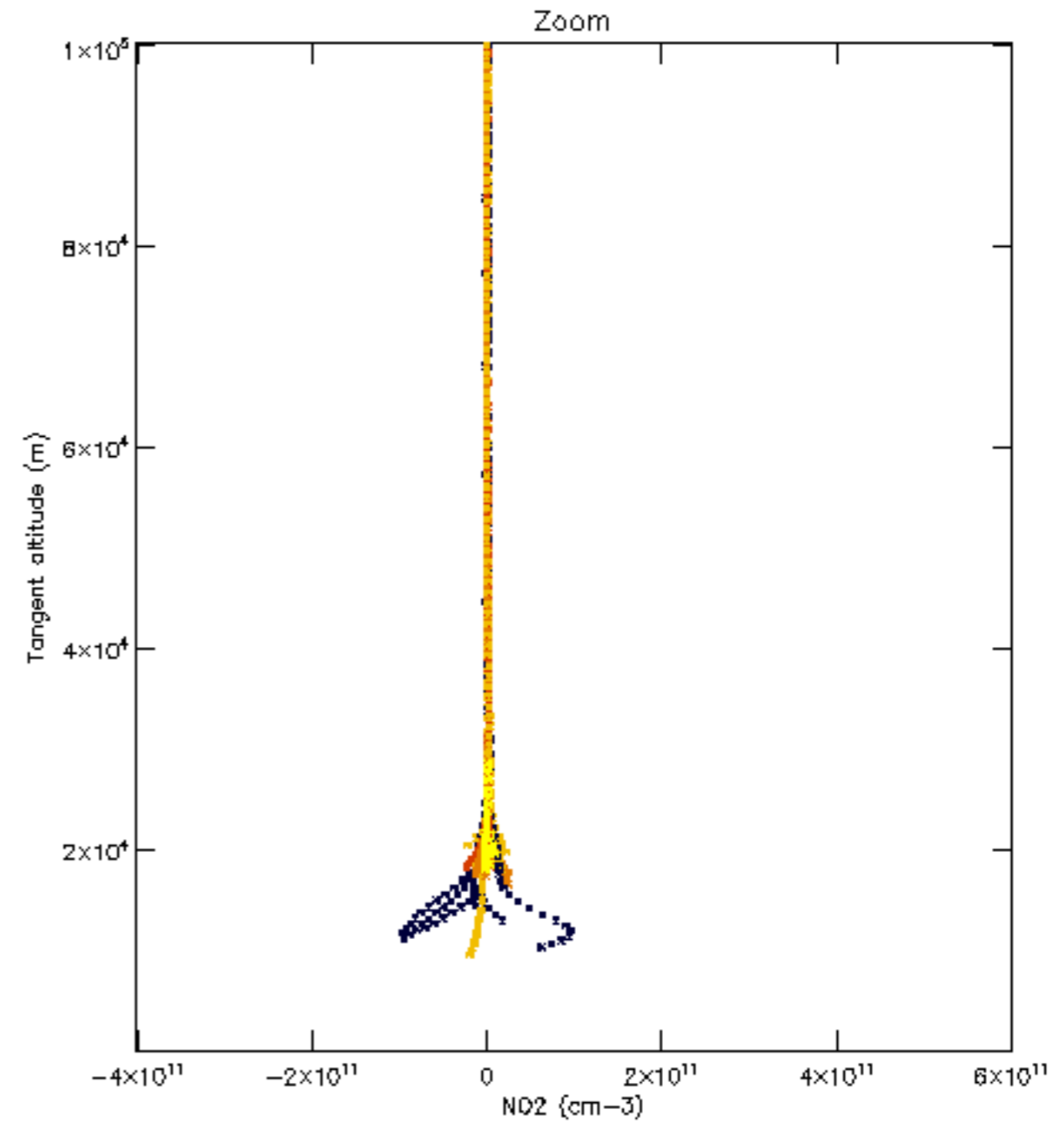
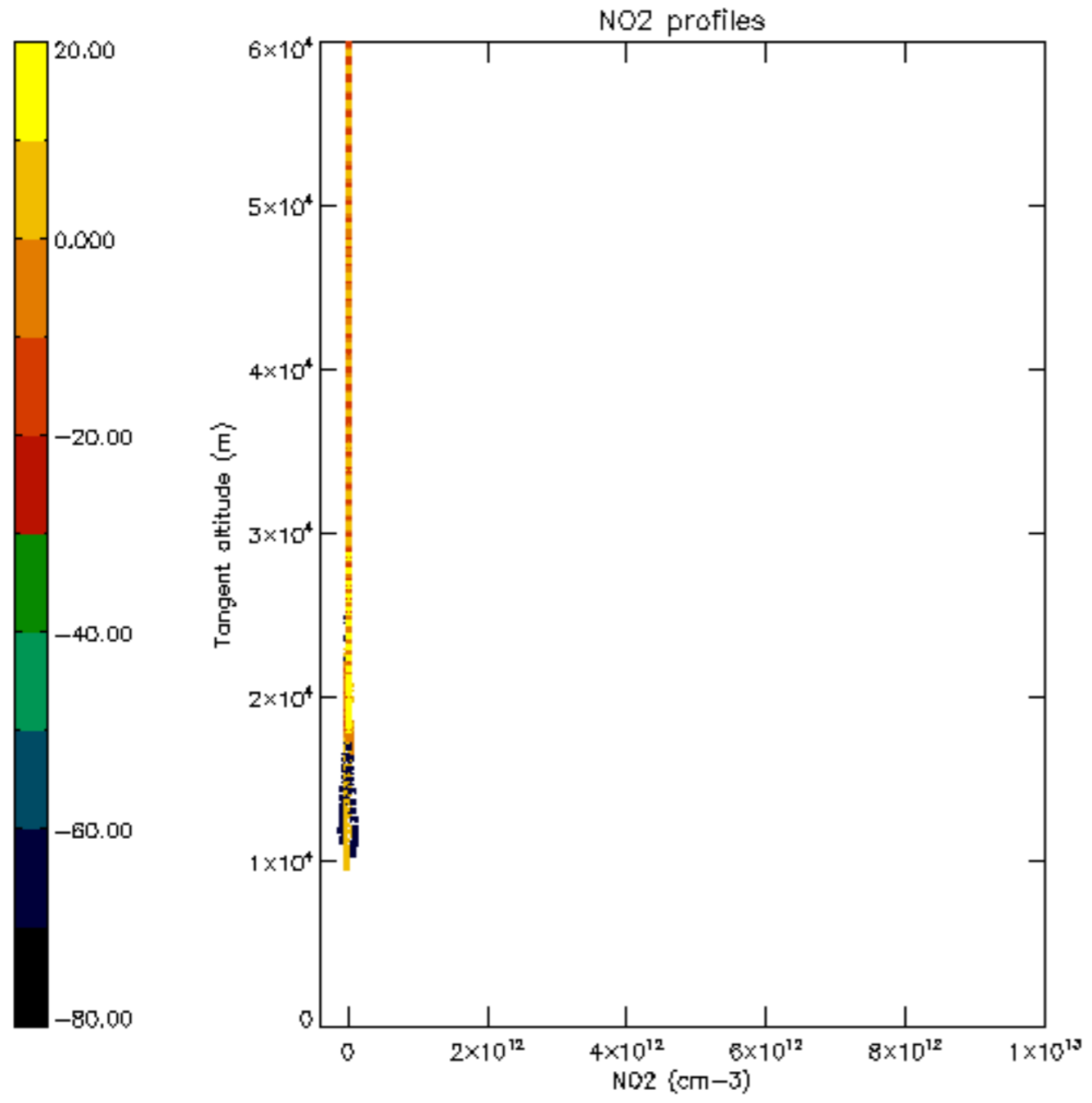


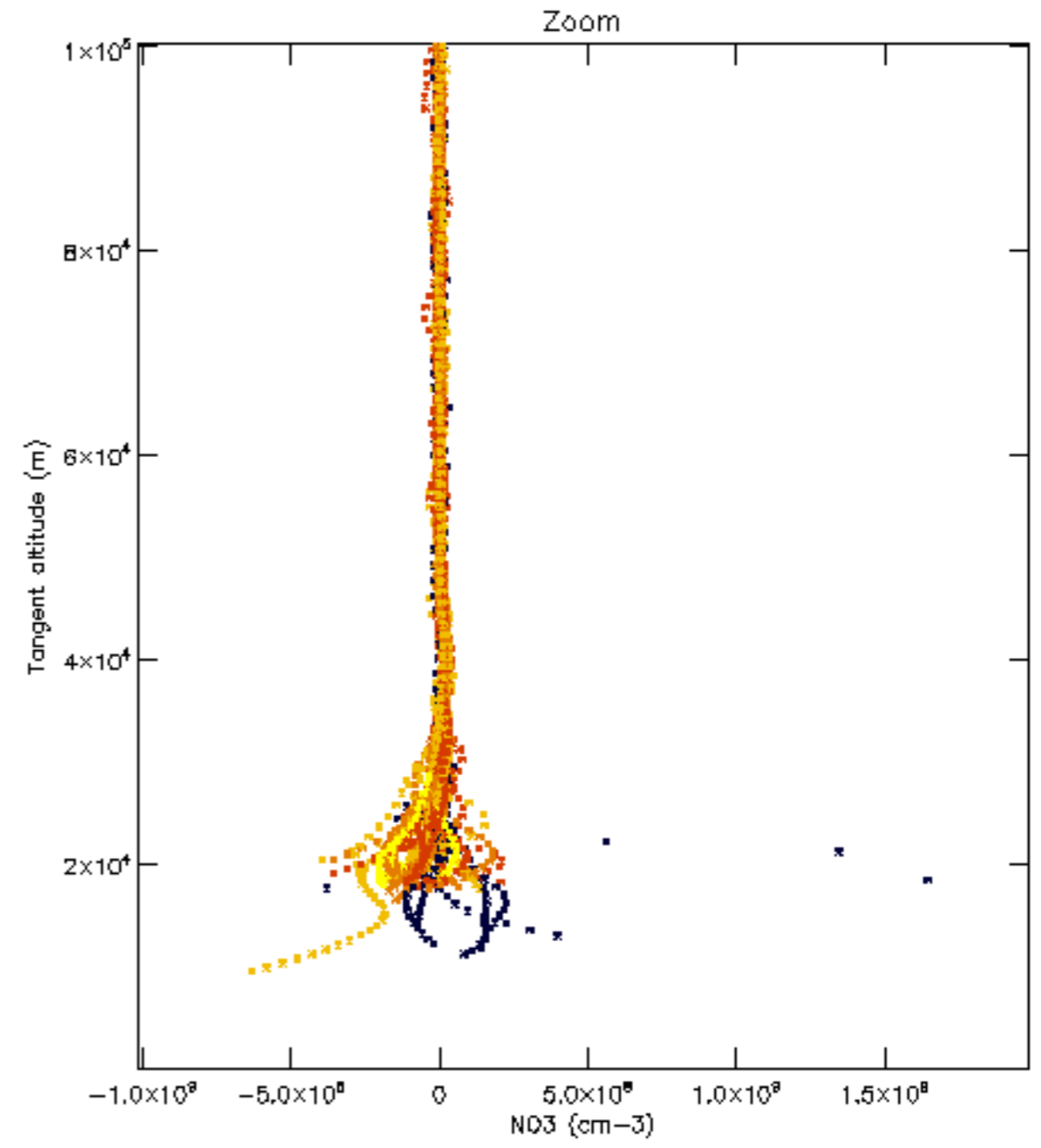
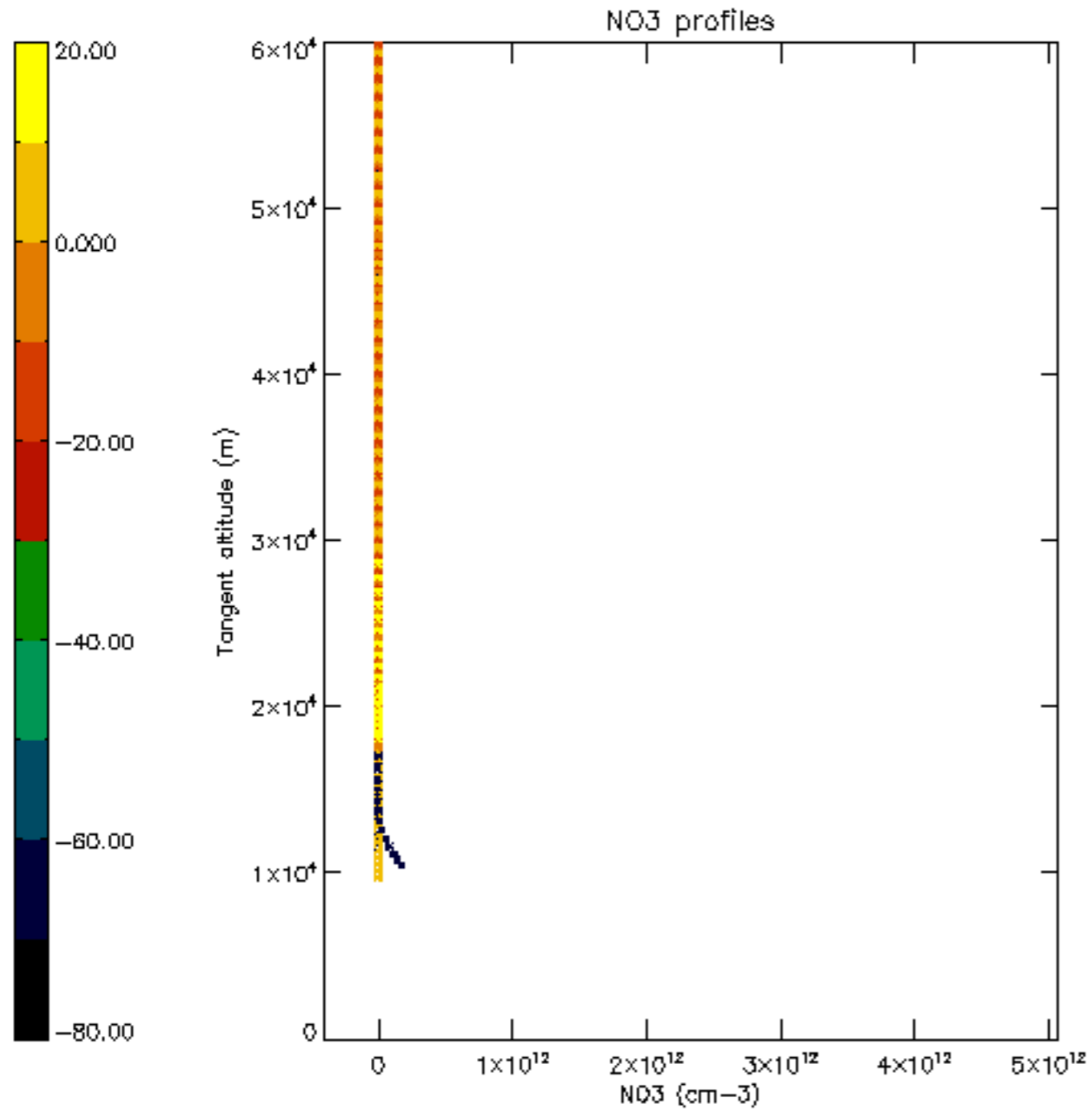


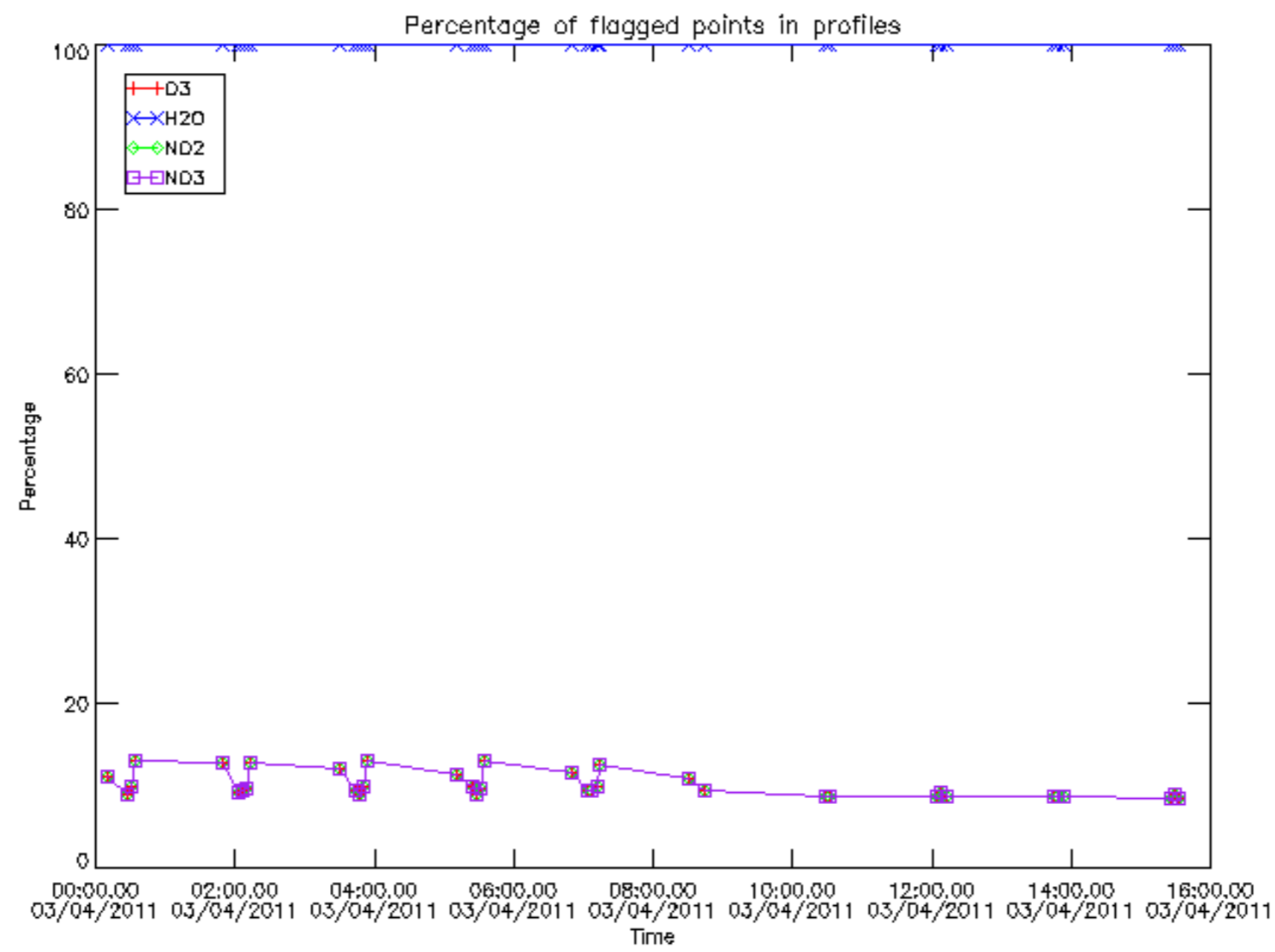




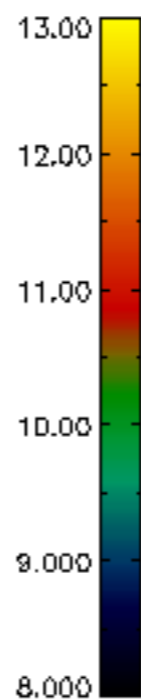
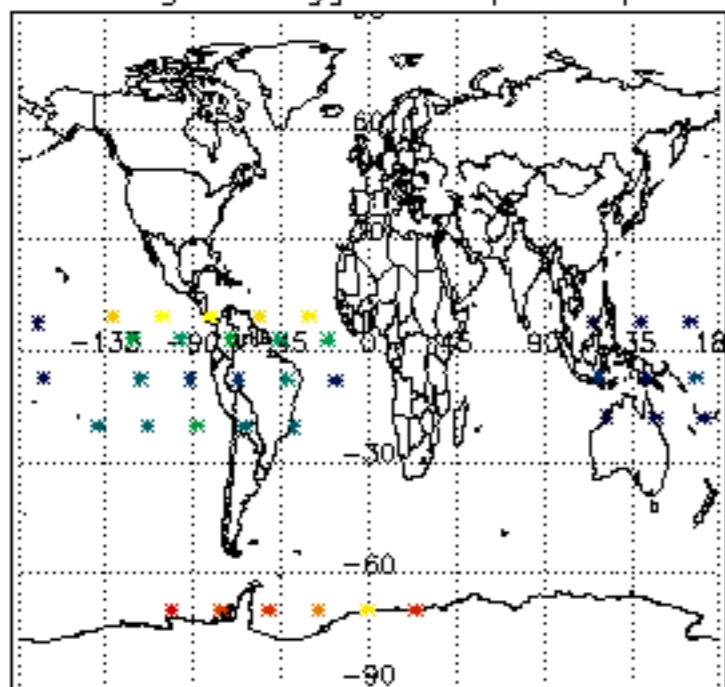




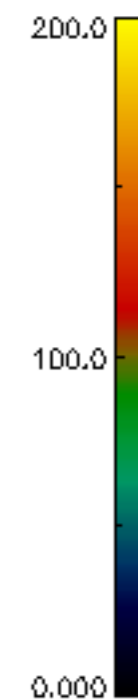
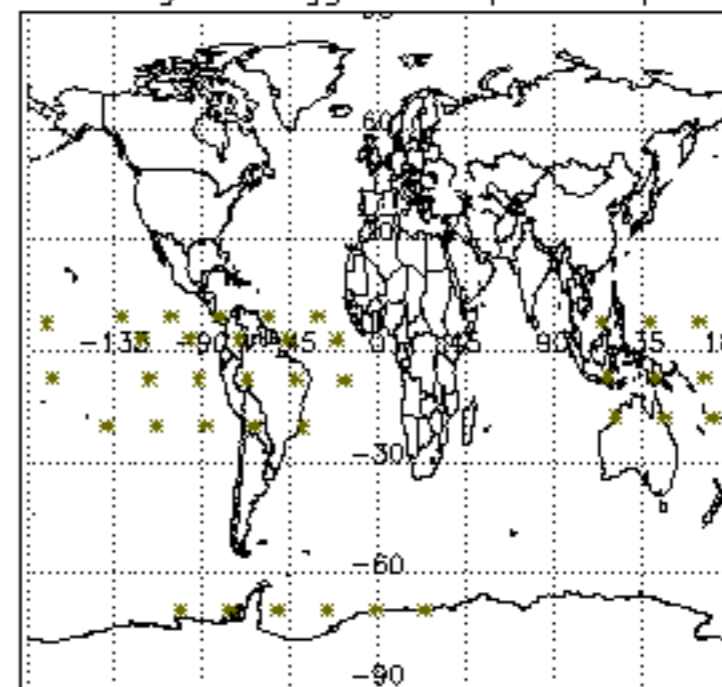




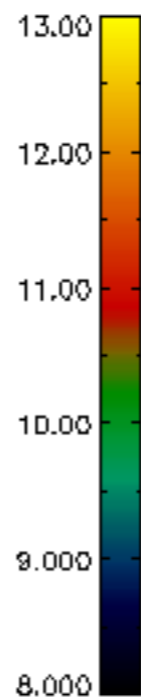
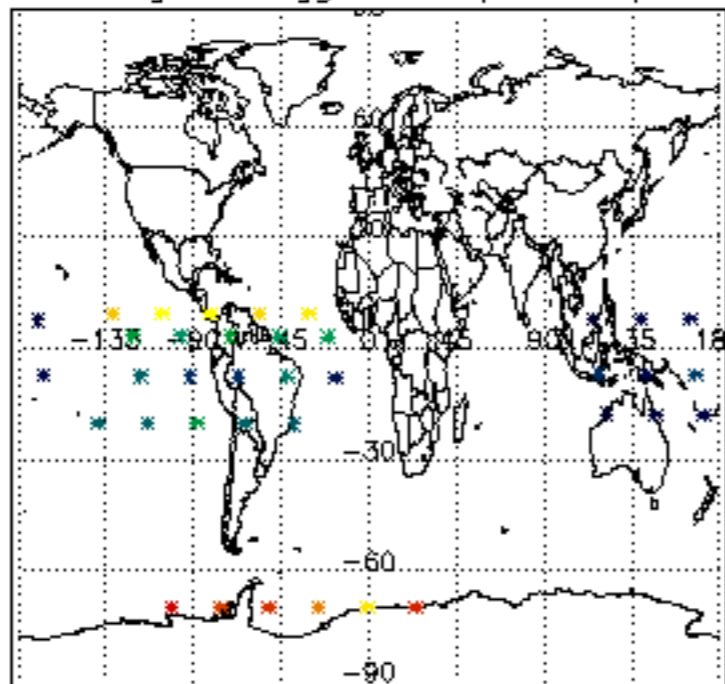
Percentage of flagged data per D3 profile



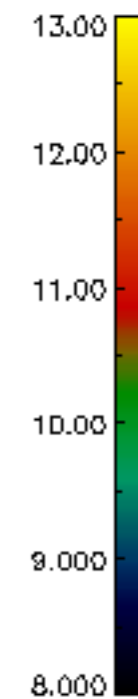
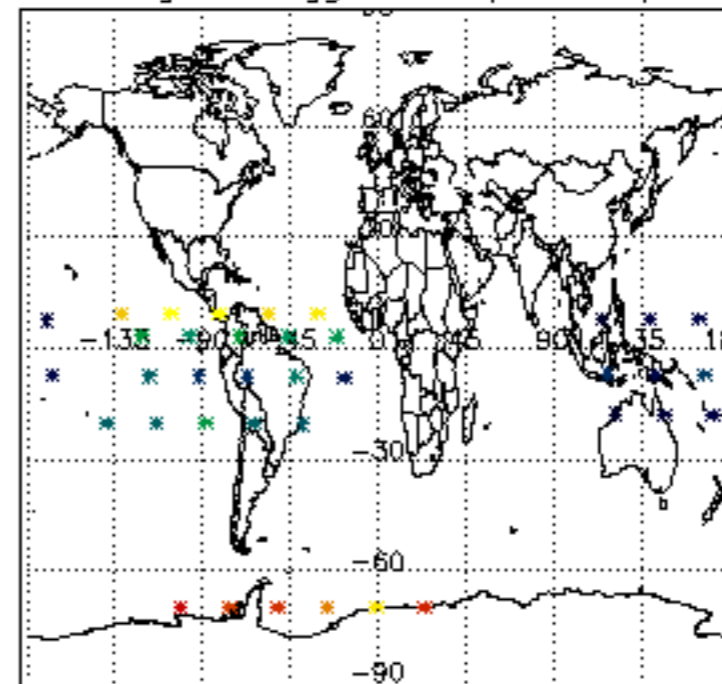
Percentage of flagged data per H2O profile

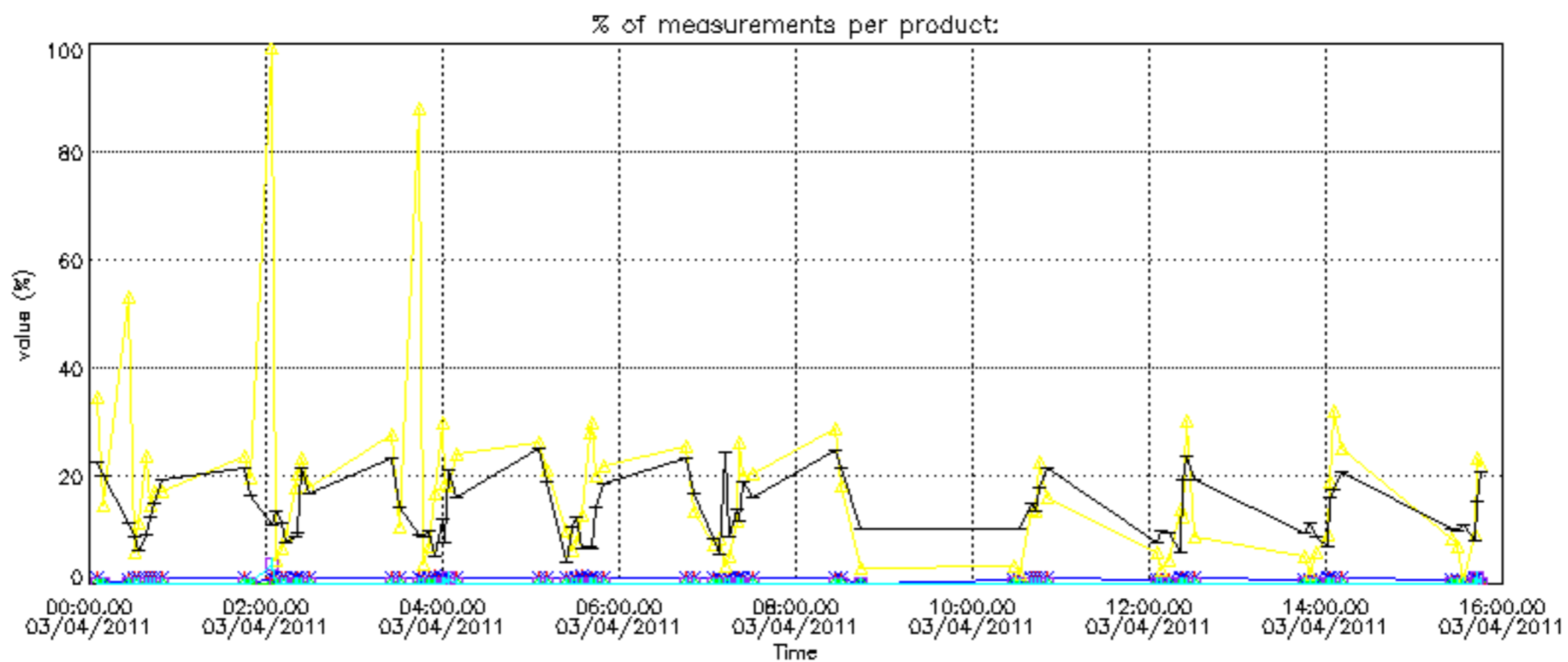


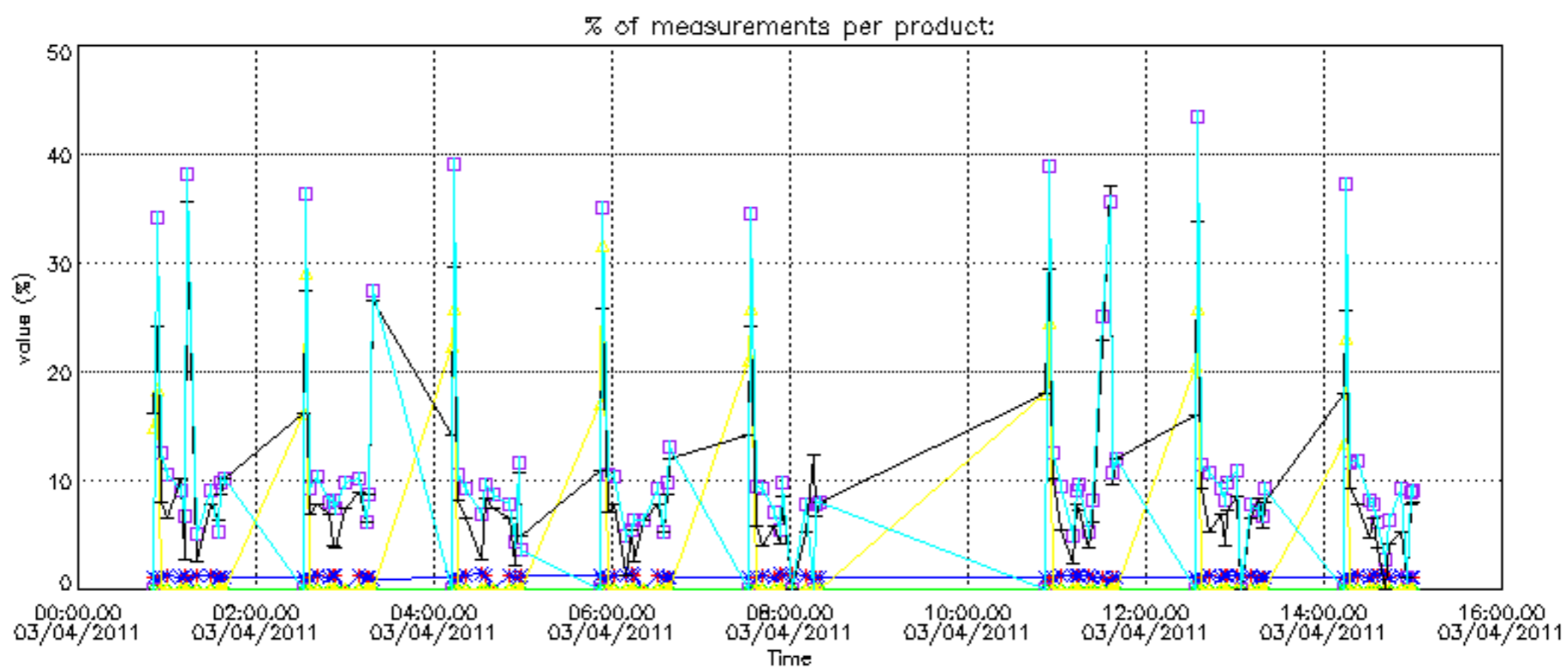
Percentage of flagged data per NO2 profile



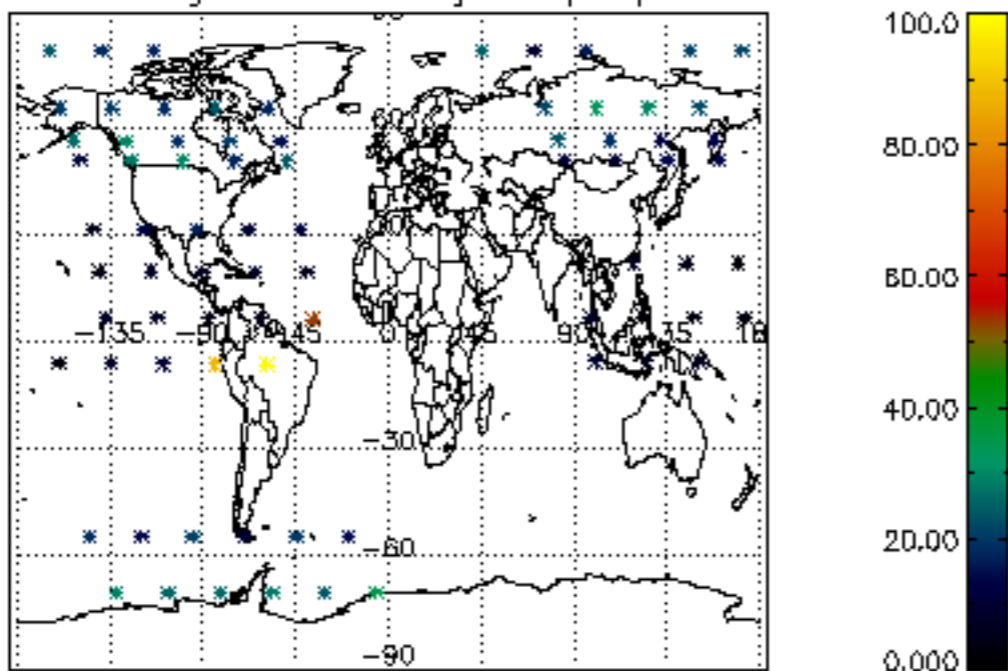
Percentage of flagged data per NO3 profile



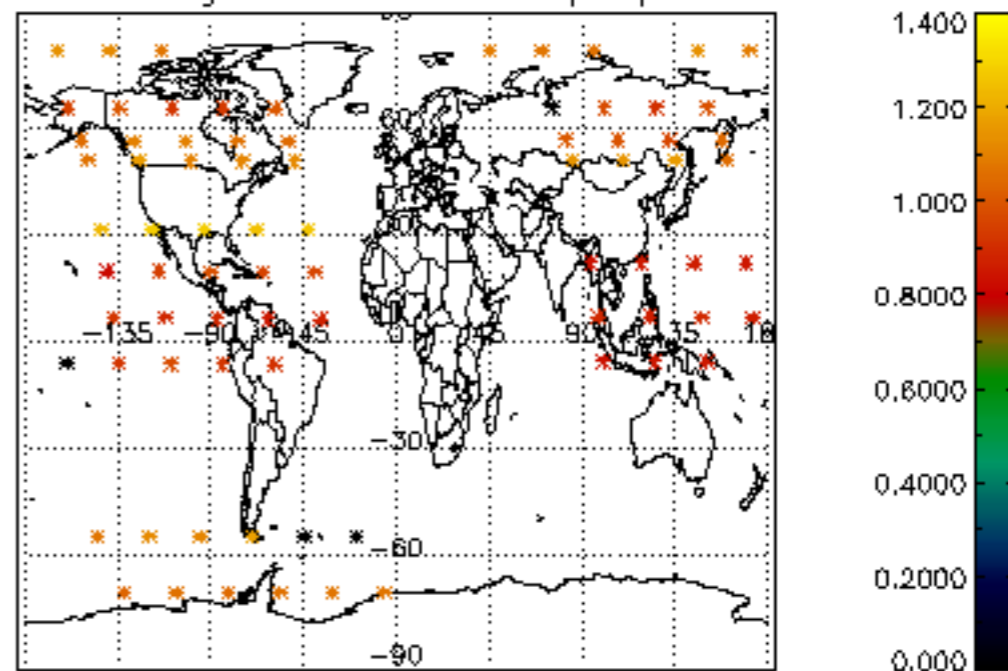




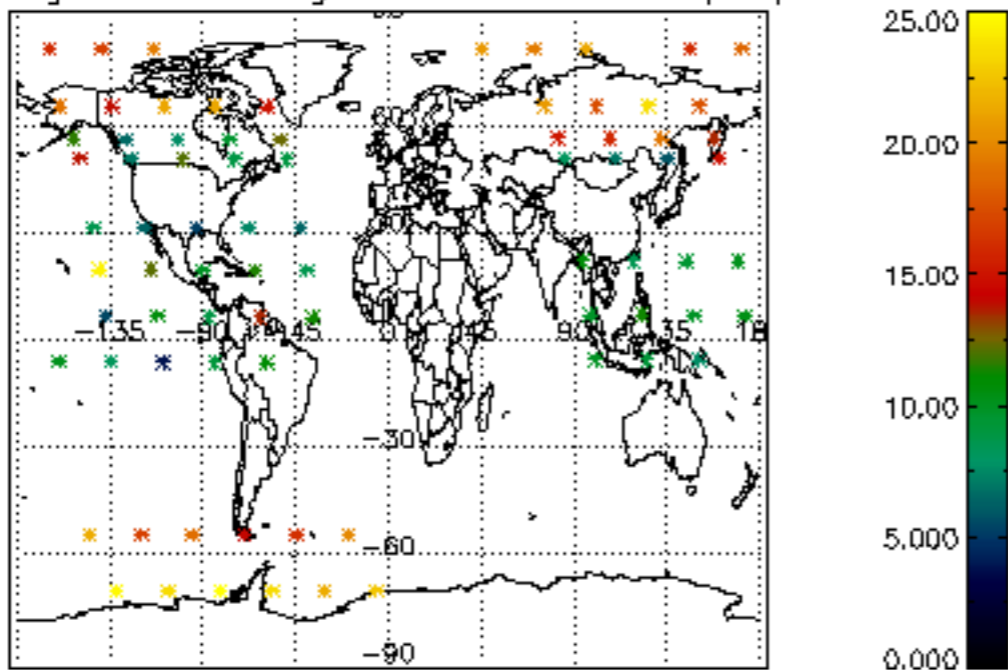
Percentage of cosmic ray hits per profile



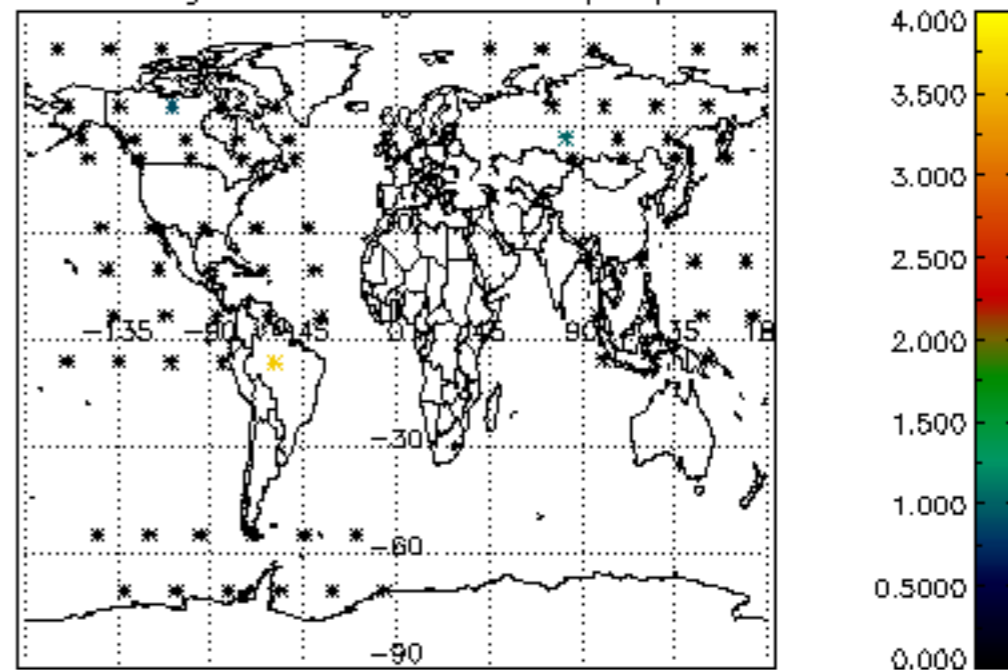
Percentage of datation errors per profile



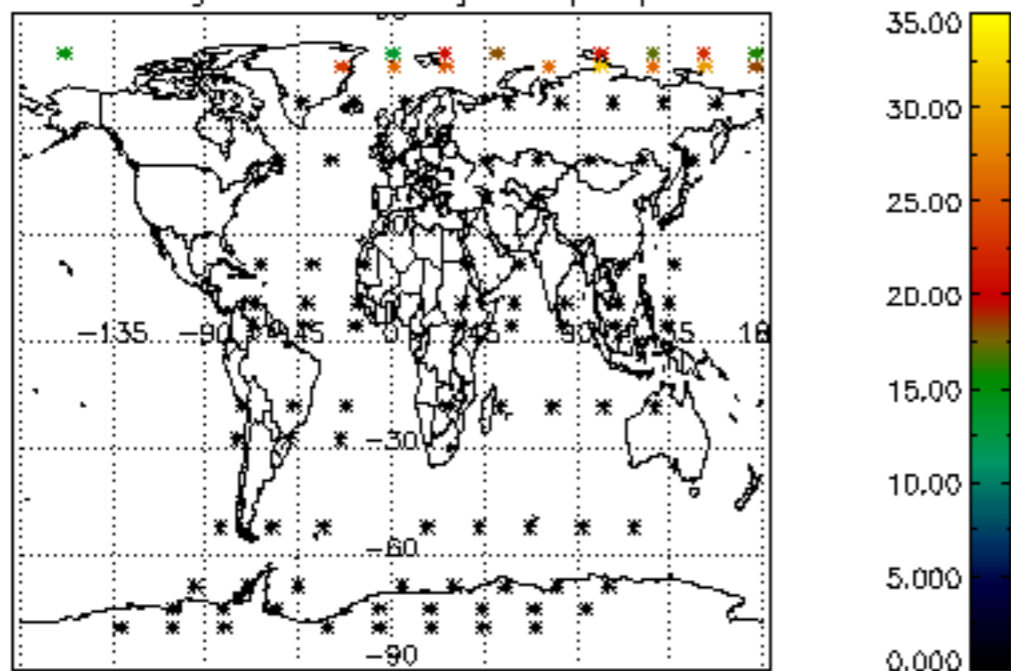
Percentage of star falling outside central band per profile



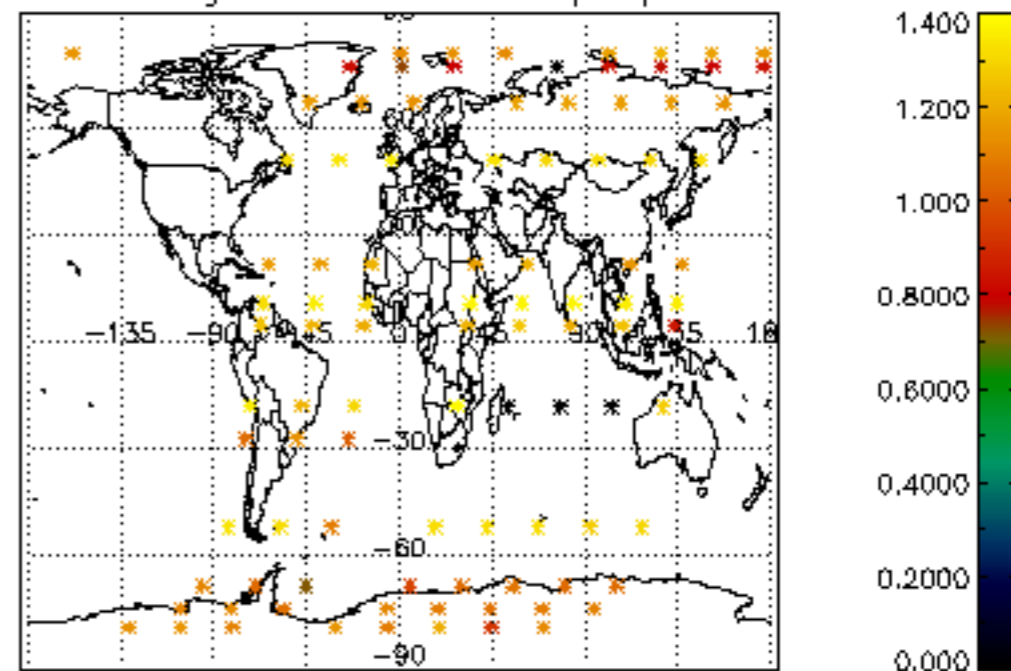
Percentage of saturation errors per profile



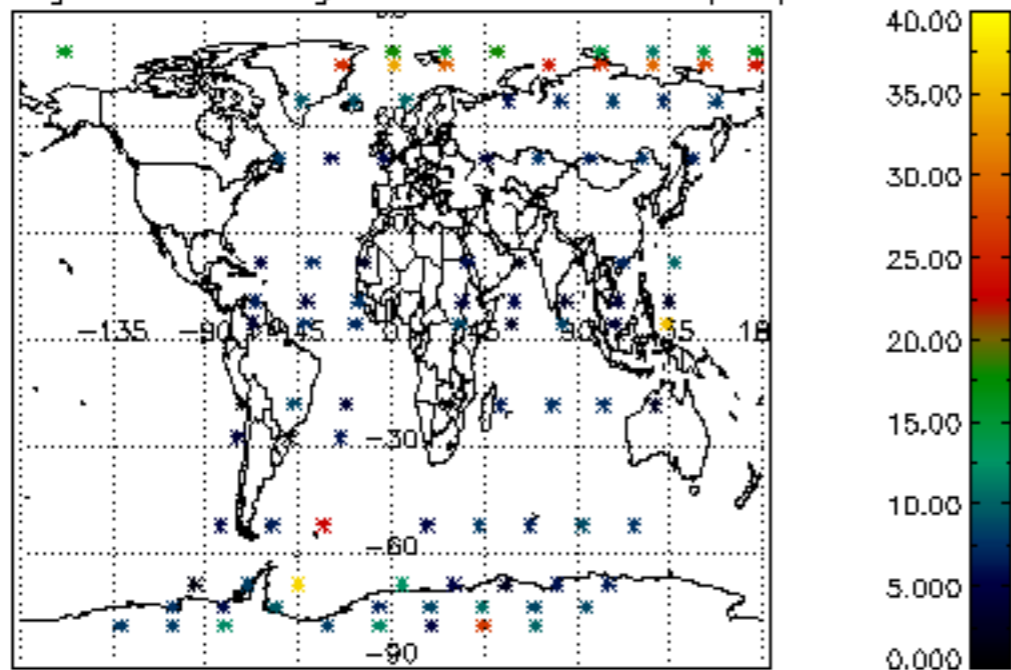
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

