

GOMOS Level 2 Daily Report

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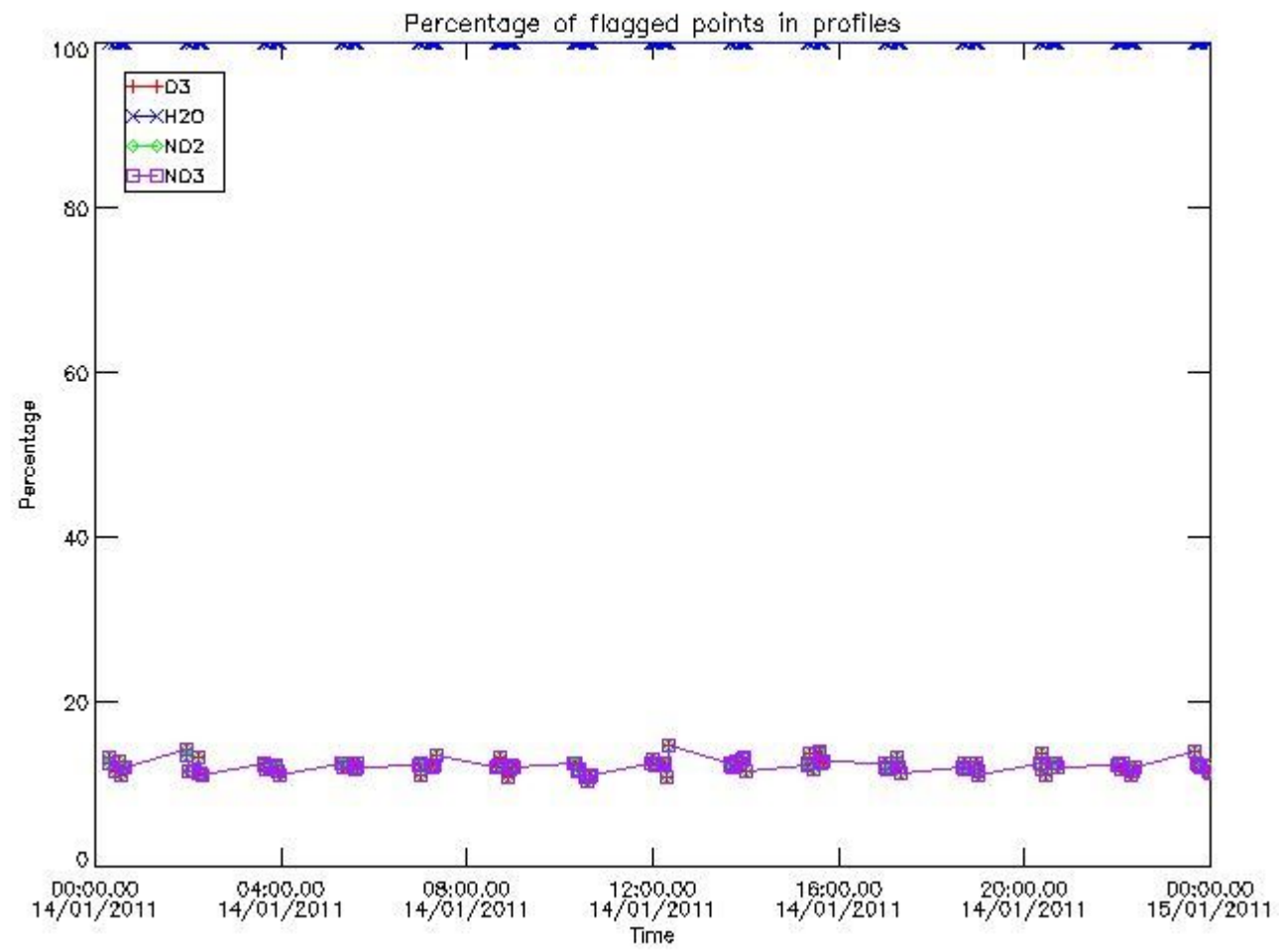
This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also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

Item	Value
Time of report generation	24APR2013 09:09:29
Data source version	GOMOS/6.01
Start time of products	14-01-2011 (14JAN2011 00:00:00)
Stop time of products	15-01-2011 (15JAN2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	330
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

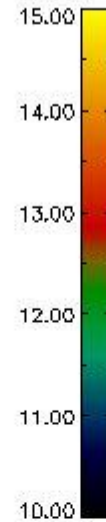
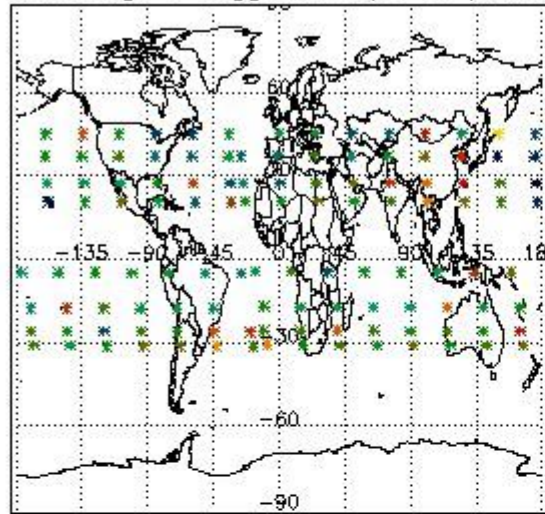
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110114_000203_000000613098_00260_46395_7201.N1	14-JAN-2011 00:02:03	Bright	61.000	102	24Alp Ser	2.6000	4250.0	122	46395	No
2	GOM_NL__2PRFIN20110114_000412_000000563098_00260_46395_7202.N1	14-JAN-2011 00:04:12	Bright	56.000	120	1Del Oph	2.7340	3200.0	112	46395	No
3	GOM_NL__2PRFIN20110114_000745_000000493098_00260_46395_7203.N1	14-JAN-2011 00:07:45	Twilight	49.000	104	27Bet Lib	2.6140	13100.	98	46395	No
4	GOM_NL__2PRFIN20110114_000945_000000463098_00260_46395_7204.N1	14-JAN-2011 00:09:45	Twilight	45.500	80	7Del Sco	2.3160	30000.	91	46395	No
5	GOM_NL__2PRFIN20110114_001654_000000413098_00260_46395_7205.N1	14-JAN-2011 00:16:54	Dark	41.000	109	Bet Lup	2.6770	26000.	82	46395	No
6	GOM_NL__2PRFIN20110114_001825_000000433098_00260_46395_7206.N1	14-JAN-2011 00:18:25	Dark	42.500	78	Alp Lup	2.3040	28000.	85	46395	No
7	GOM_NL__2PRFIN20110114_002430_000000453098_00261_46396_7193.N1	14-JAN-2011 00:24:30	Dark	44.500	20	Bet Cru	1.2530	30000.	89	46396	No
8	GOM_NL__2PRFIN20110114_003156_000000403098_00261_46396_7194.N1	14-JAN-2011 00:31:56	Dark	40.000	71	lot Car	2.2460	7700.0	80	46396	No
9	GOM_NL__2PRFIN20110114_003348_000000463098_00261_46396_7195.N1	14-JAN-2011 00:33:48	Dark	45.500	46	Del Vel	1.9540	10600.	91	46396	No
10	GOM_NL__2PRFIN20110114_003631_000000433098_00261_46396_7196.N1	14-JAN-2011 00:36:31	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	46396	No
11	GOM_NL__2PRFIN20110114_003840_000000433098_00261_46396_7197.N1	14-JAN-2011 00:38:40	Dark	42.500	70	Zet Pup	2.2460	39000.	85	46396	No
12	GOM_NL__2PRFIN20110114_004229_000000433098_00261_46396_7198.N1	14-JAN-2011 00:42:29	Straylight	42.500	88	31Eta CMa	2.4480	20000.	85	46396	No
13	GOM_NL__2PRFIN20110114_004420_000000433098_00261_46396_7199.N1	14-JAN-2011 00:44:20	Straylight	43.000	179	24Omi2CMa	3.0320	24000.	86	46396	No
14	GOM_NL__2PRFIN20110114_004634_000000533098_00261_46396_7200.N1	14-JAN-2011 00:46:34	Straylight	53.000	1	9Alp CMa	-1.4400	11000.	106	46396	No
15	GOM_NL__2PRFIN20110114_005324_000000623098_00261_46396_7201.N1	14-JAN-2011 00:53:24	Twilight	61.500	8	10Alp CMi	0.40000	6500.0	123	46396	No
16	GOM_NL__2PRFIN20110114_005616_000000433098_00261_46396_7202.N1	14-JAN-2011 00:56:16	Bright	43.000	44	24Gam Gem	1.9280	11000.	86	46396	No
17	GOM_NL__2PRFIN20110114_005759_000000423098_00261_46396_7203.N1	14-JAN-2011 00:57:59	Bright	42.000	151	13Mu Gem	2.8900	3000.0	84	46396	No
18	GOM_NL__2PRFIN20110114_010101_000000503098_00261_46396_7204.N1	14-JAN-2011 01:01:01	Bright	49.500	17	78Bet Gem	1.1610	4500.0	99	46396	No
19	GOM_NL__2PRFIN20110114_012047_000000393098_00261_46396_7205.N1	14-JAN-2011 01:20:47	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	46396	No
20	GOM_NL__2PRFIN20110114_012503_000000383098_00261_46396_7206.N1	14-JAN-2011 01:25:03	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	46396	No
21	GOM_NL__2PRFIN20110114_013349_000000543098_00261_46396_7207.N1	14-JAN-2011 01:33:49	Bright	54.000	133	40Zet Her	2.8070	6000.0	108	46396	No
22	GOM_NL__2PRFIN20110114_013600_000000603098_00261_46396_7208.N1	14-JAN-2011 01:36:00	Bright	60.000	67	5Alp CrB	2.2210	11000.	120	46396	No
23	GOM_NL__2PRFIN20110114_014218_000000613098_00261_46396_7209.N1	14-JAN-2011 01:42:18	Bright	61.000	102	24Alp Ser	2.6000	4250.0	122	46396	No
24	GOM_NL__2PRFIN20110114_014426_000000563098_00261_46396_7210.N1	14-JAN-2011 01:44:26	Bright	56.000	120	1Del Oph	2.7340	3200.0	112	46396	No
25	GOM_NL__2PRFIN20110114_014800_000000493098_00261_46396_7211.N1	14-JAN-2011 01:48:00	Twilight	48.500	104	27Bet Lib	2.6140	13100.	97	46396	No
26	GOM_NL__2PRFIN20110114_014959_000000463098_00261_46396_7212.N1	14-JAN-2011 01:49:59	Twilight	45.500	80	7Del Sco	2.3160	30000.	91	46396	No
27	GOM_NL__2PRFIN20110114_015709_000000403098_00261_46396_7213.N1	14-JAN-2011 01:57:09	Dark	39.500	109	Bet Lup	2.6770	26000.	79	46396	No
28	GOM_NL__2PRFIN20110114_015839_000000423098_00261_46396_7214.N1	14-JAN-2011 01:58:39	Dark	41.500	78	Alp Lup	2.3040	28000.	83	46396	No
29	GOM_NL__2PRFIN20110114_020038_000000443098_00262_46397_7205.N1	14-JAN-2011 02:00:38	Dark	44.000	95	Zet Cen	2.5450	26000.	88	46397	No
30	GOM_NL__2PRFIN20110114_020445_000000443098_00262_46397_7206.N1	14-JAN-2011 02:04:45	Dark	44.000	20	Bet Cru	1.2530	30000.	88	46397	No
31	GOM_NL__2PRFIN20110114_021210_000000453098_00262_46397_7207.N1	14-JAN-2011 02:12:10	Dark	45.000	71	lot Car	2.2460	7700.0	90	46397	No
32	GOM_NL__2PRFIN20110114_021402_000000423098_00262_46397_7208.N1	14-JAN-2011 02:14:02	Dark	42.000	46	Del Vel	1.9540	10600.	84	46397	No
33	GOM_NL__2PRFIN20110114_021645_000000453098_00262_46397_7209.N1	14-JAN-2011 02:16:45	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	46397	No
34	GOM_NL__2PRFIN20110114_021854_000000463098_00262_46397_7210.N1	14-JAN-2011 02:18:54	Dark	46.000	70	Zet Pup	2.2460	39000.	92	46397	No
35	GOM_NL__2PRFIN20110114_022243_000000443098_00262_46397_7211.N1	14-JAN-2011 02:22:43	Straylight	43.500	88	31Eta CMa	2.4480	20000.	87	46397	No
36	GOM_NL__2PRFIN20110114_022435_000000433098_00262_46397_7212.N1	14-JAN-2011 02:24:35	Straylight	43.000	179	24Omi2CMa	3.0320	24000.	86	46397	No
37	GOM_NL__2PRFIN20110114_022648_000000513098_00262_46397_7213.N1	14-JAN-2011 02:26:48	Straylight	51.000	1	9Alp CMa	-1.4400	11000.	102	46397	No
38	GOM_NL__2PRFIN20110114_023338_000000623098_00262_46397_7214.N1	14-JAN-2011 02:33:38	Twilight	61.500	8	10Alp CMi	0.40000	6500.0	123	46397	No
39	GOM_NL__2PRFIN20110114_023630_000000523098_00262_46397_7215.N1	14-JAN-2011 02:36:30	Bright	52.000	44	24Gam Gem	1.9280	11000.	104	46397	No
40	GOM_NL__2PRFIN20110114_023813_000000423098_00262_46397_7216.N1	14-JAN-2011 02:38:13	Bright	42.000	151	13Mu Gem	2.8900	3000.0	84	46397	No
41	GOM_NL__2PRFIN20110114_024115_000000483098_00262_46397_7217.N1	14-JAN-2011 02:41:15	Bright	48.000	17	78Bet Gem	1.1610	4500.0	96	46397	No
42	GOM_NL__2PRFIN20110114_030101_000000363098_00262_46397_7218.N1	14-JAN-2011 03:01:01	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	46397	No

3.1 Plot quality information per product (time dependant)

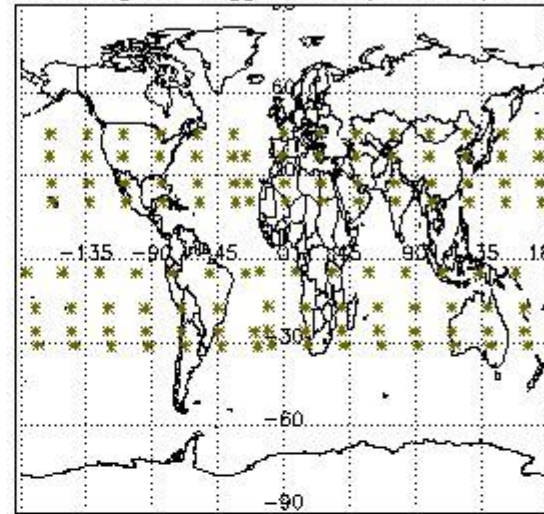


3.2 Plot quality information per product (world map)

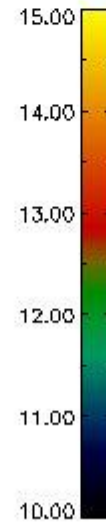
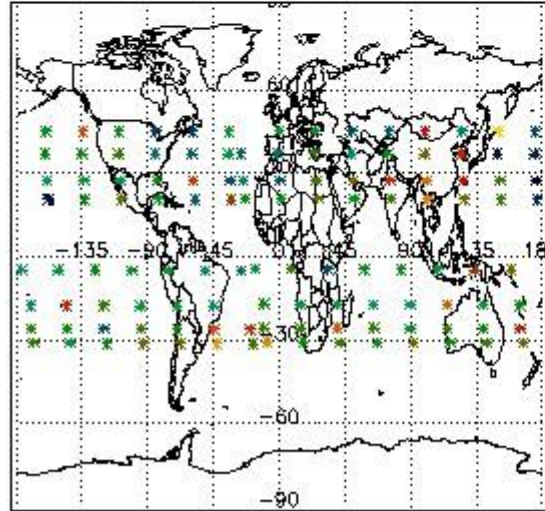
Percentage of flagged data per O3 profile



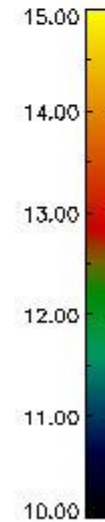
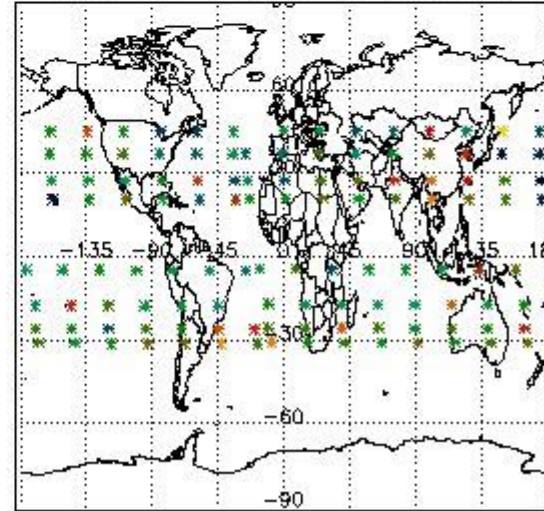
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

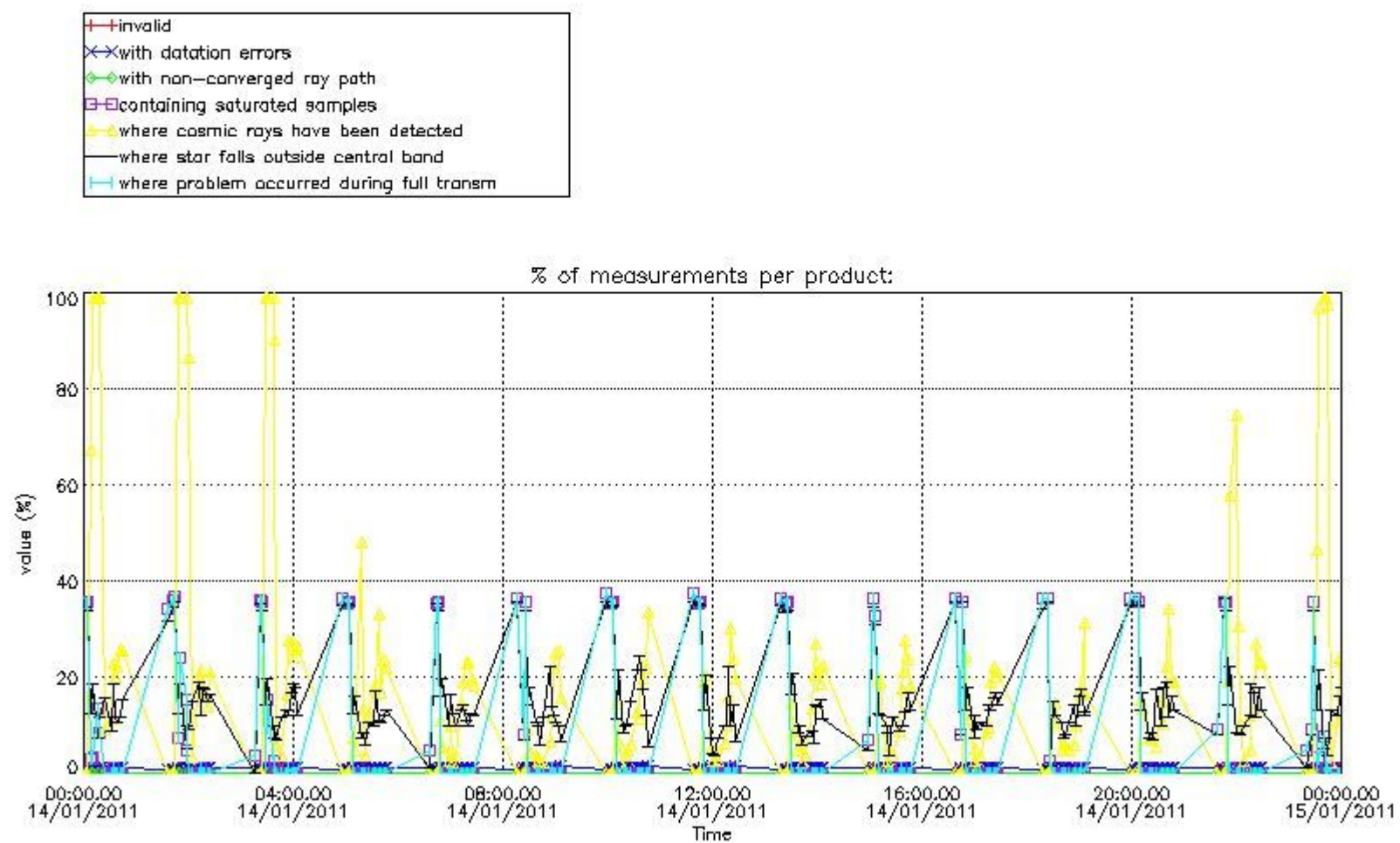


4. Level 1 quality information per product

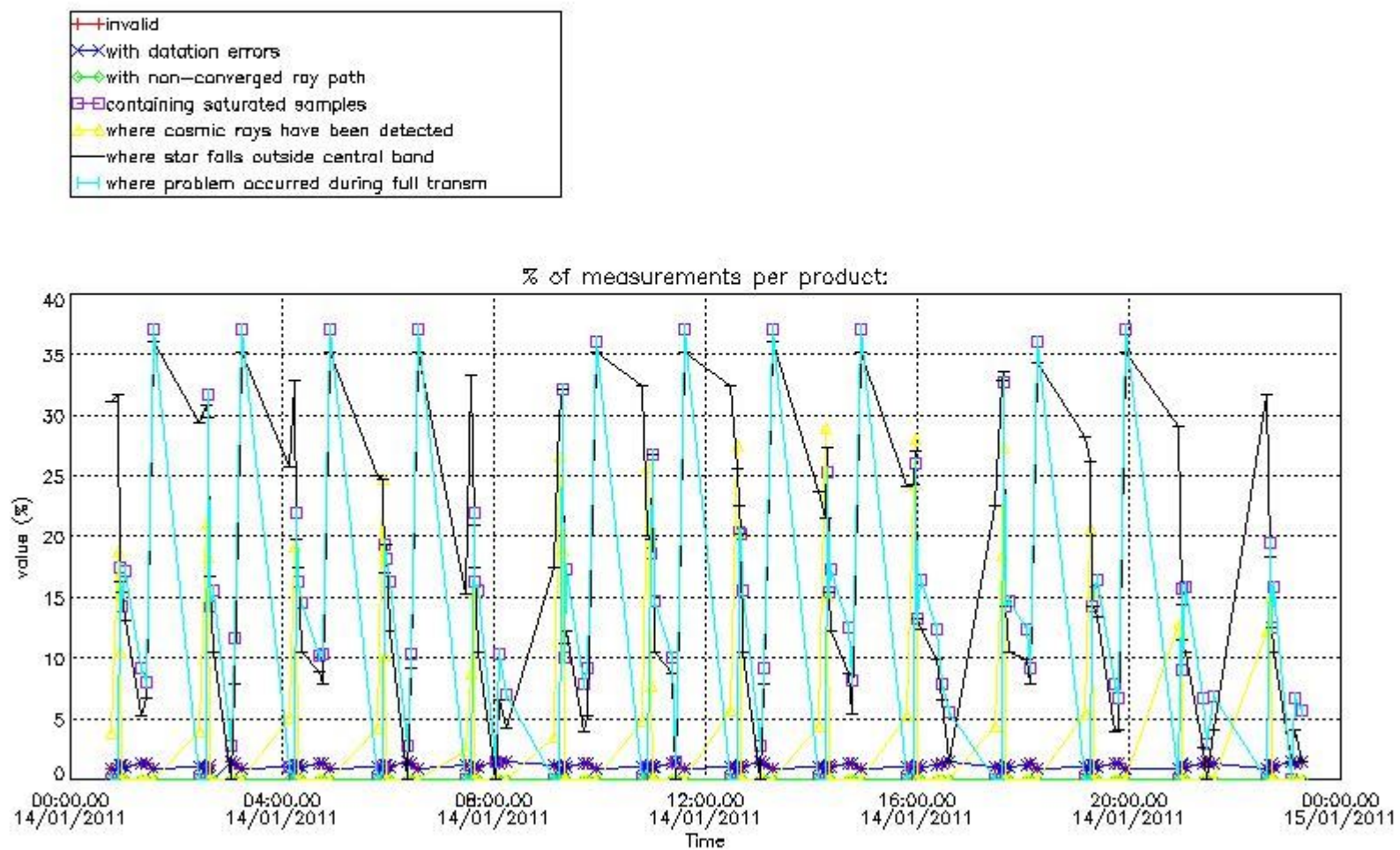
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



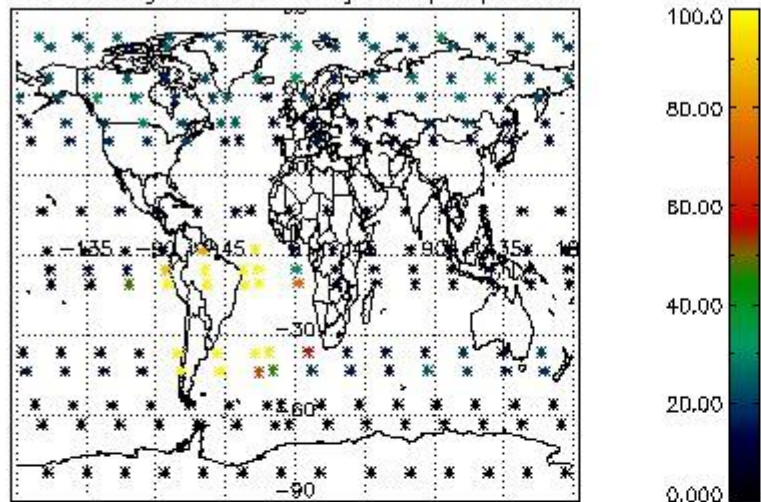
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



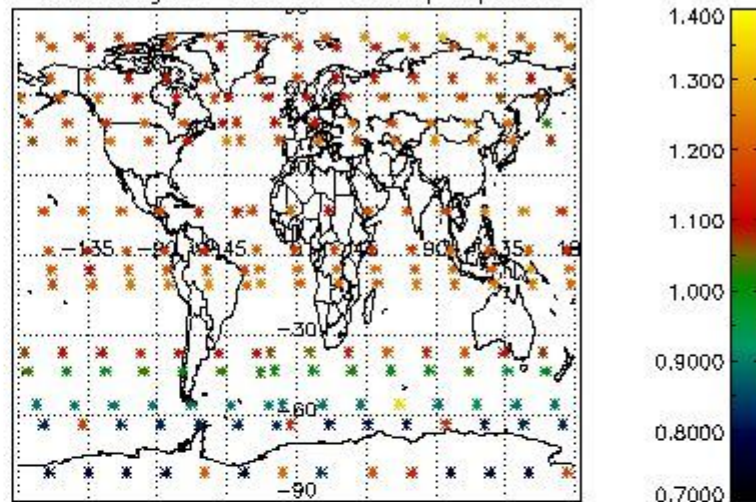
4.2 Plot quality information per product coming from level 1b processing (world map)

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

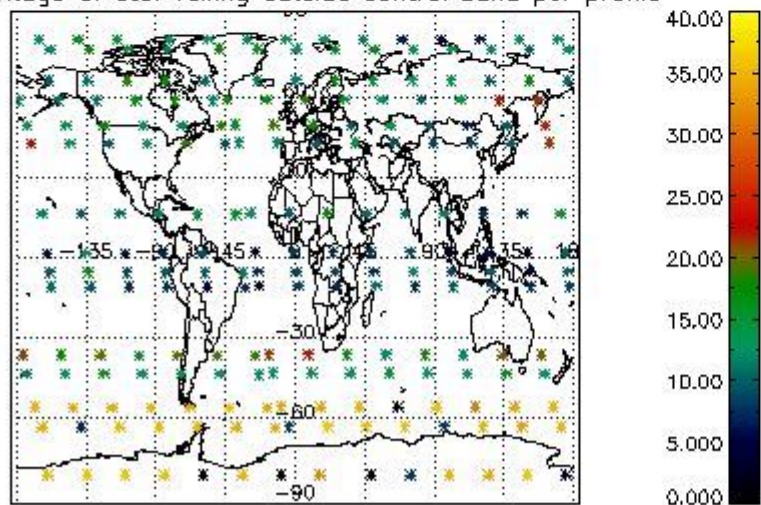
Percentage of cosmic ray hits per profile



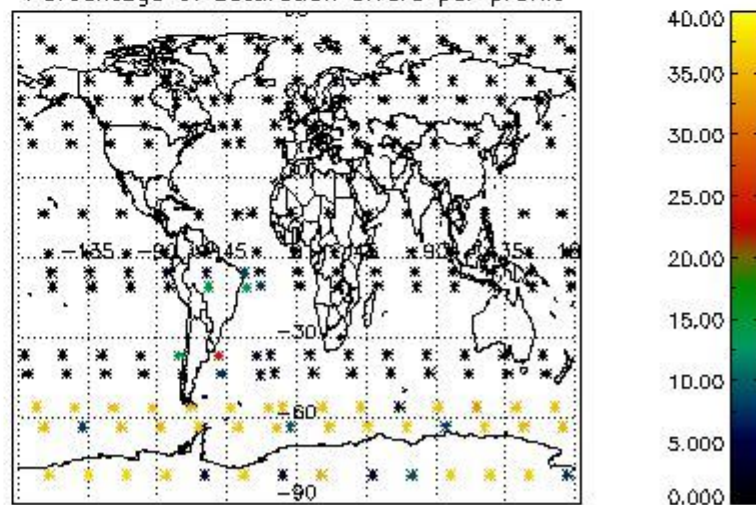
Percentage of datation errors per profile



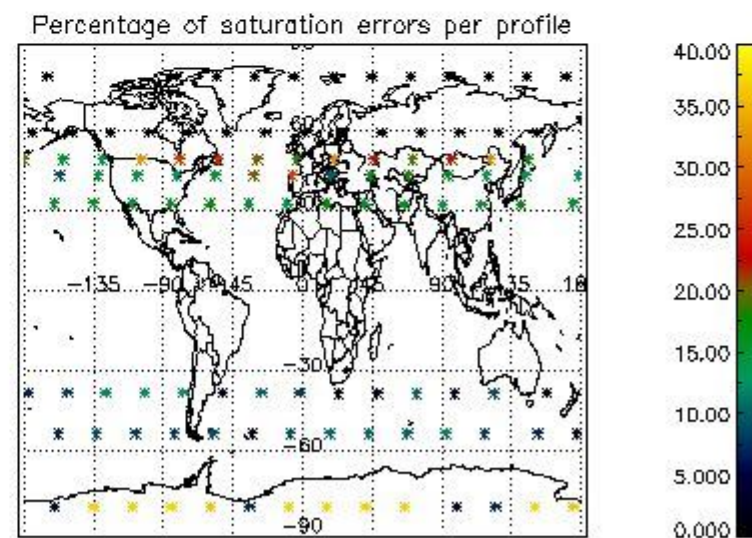
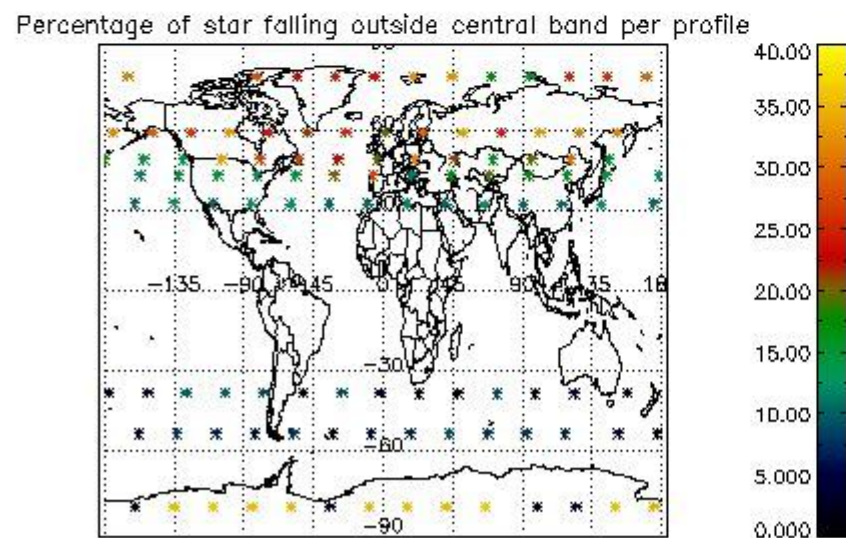
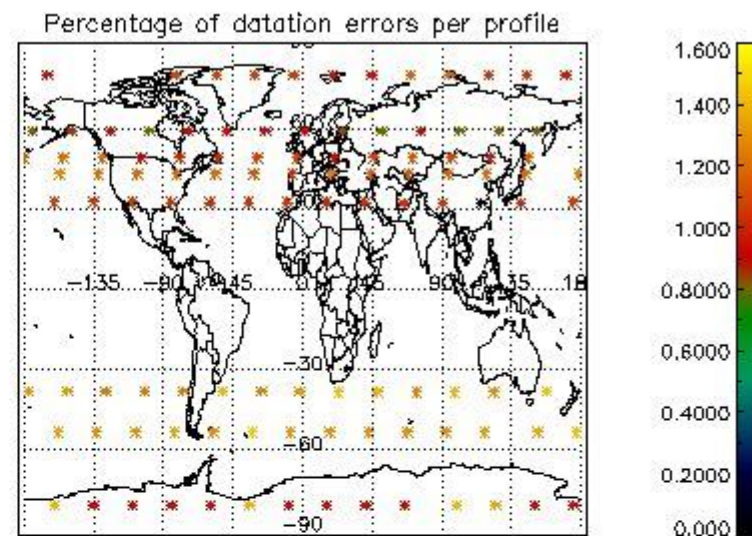
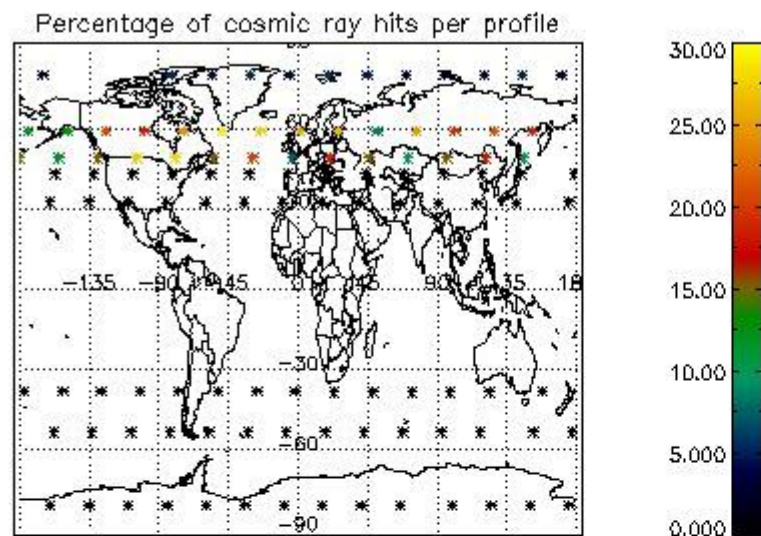
Percentage of star falling outside central band per profile



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

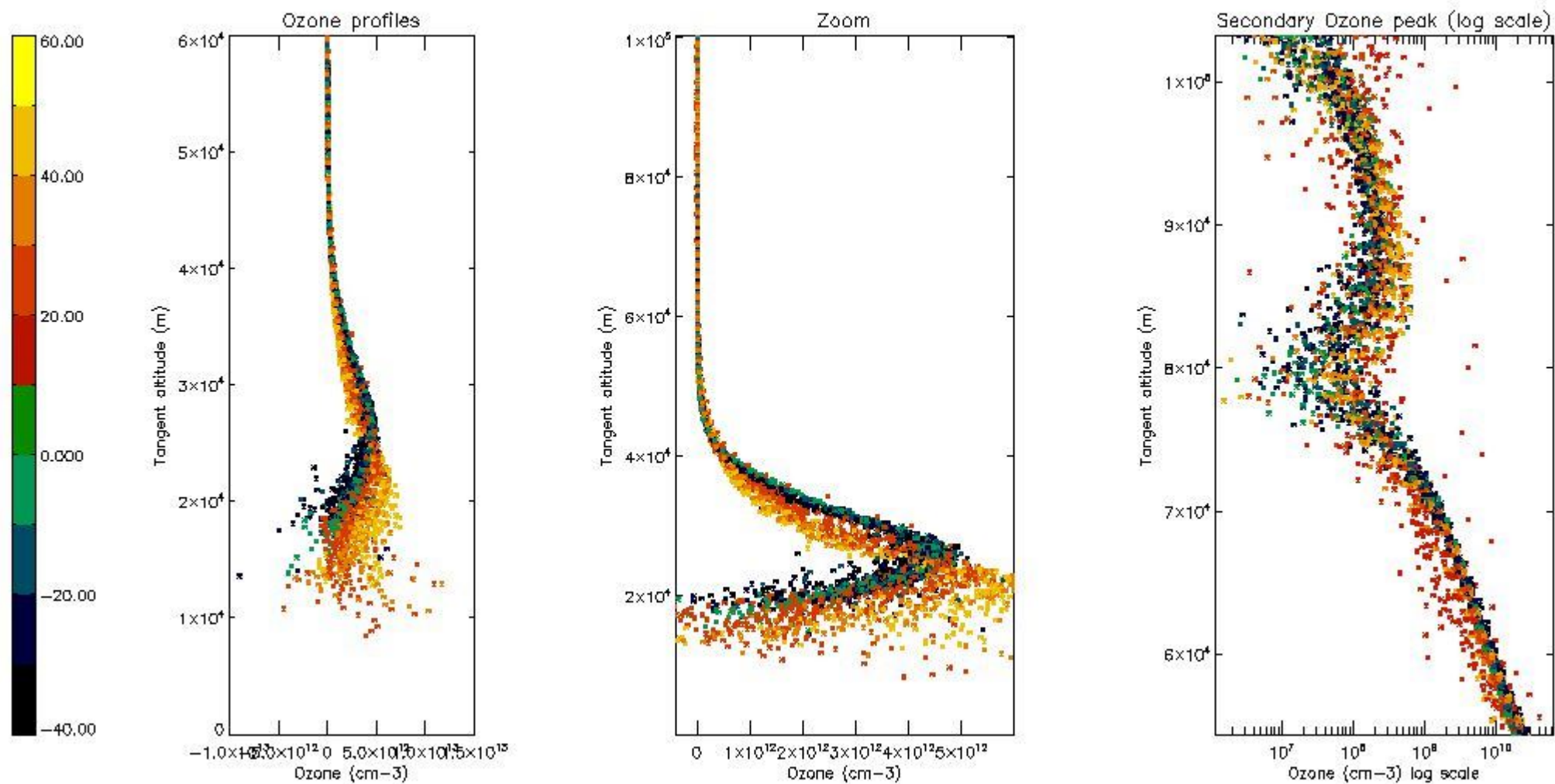
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	16
STD < 5	11

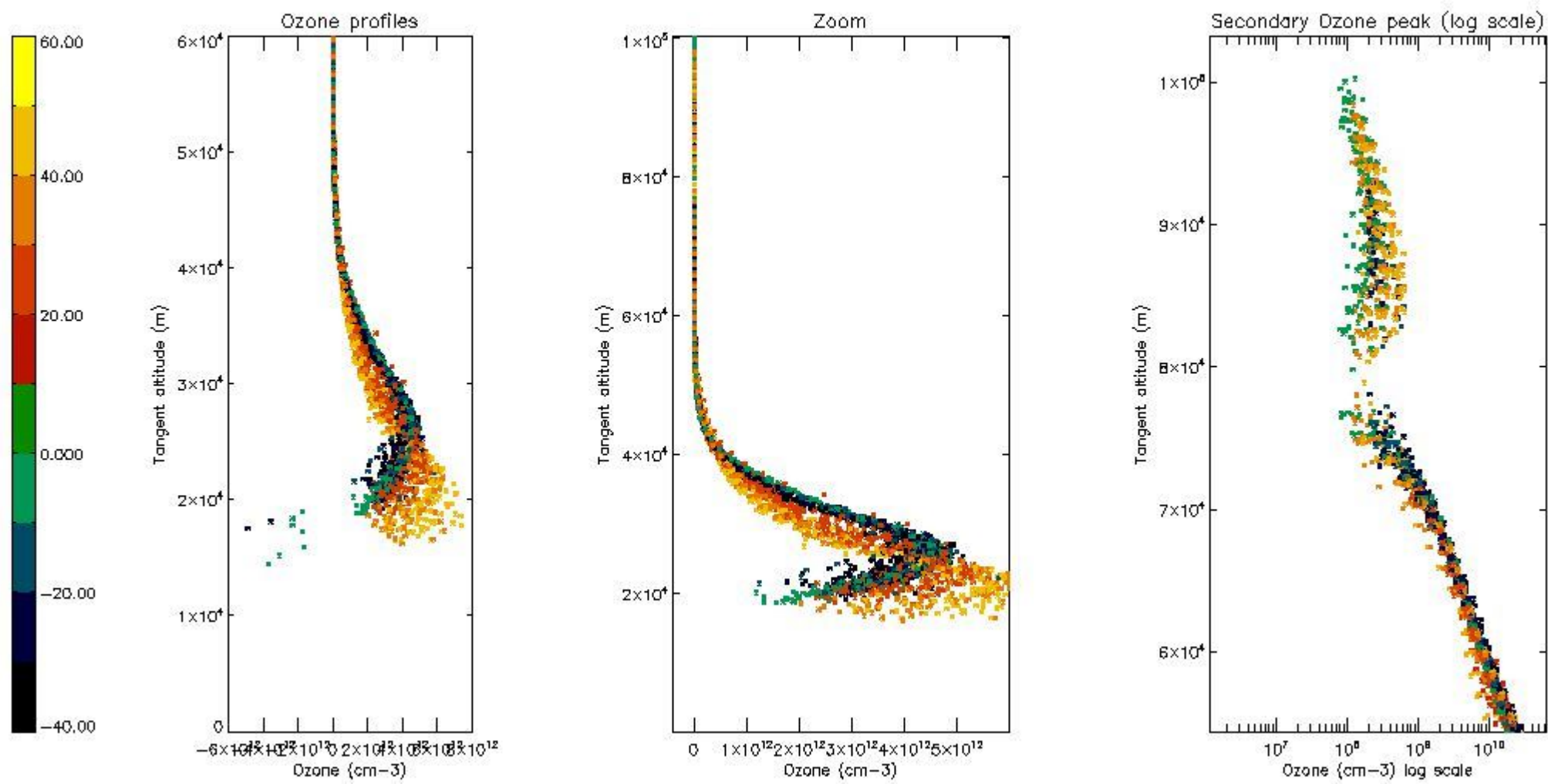
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



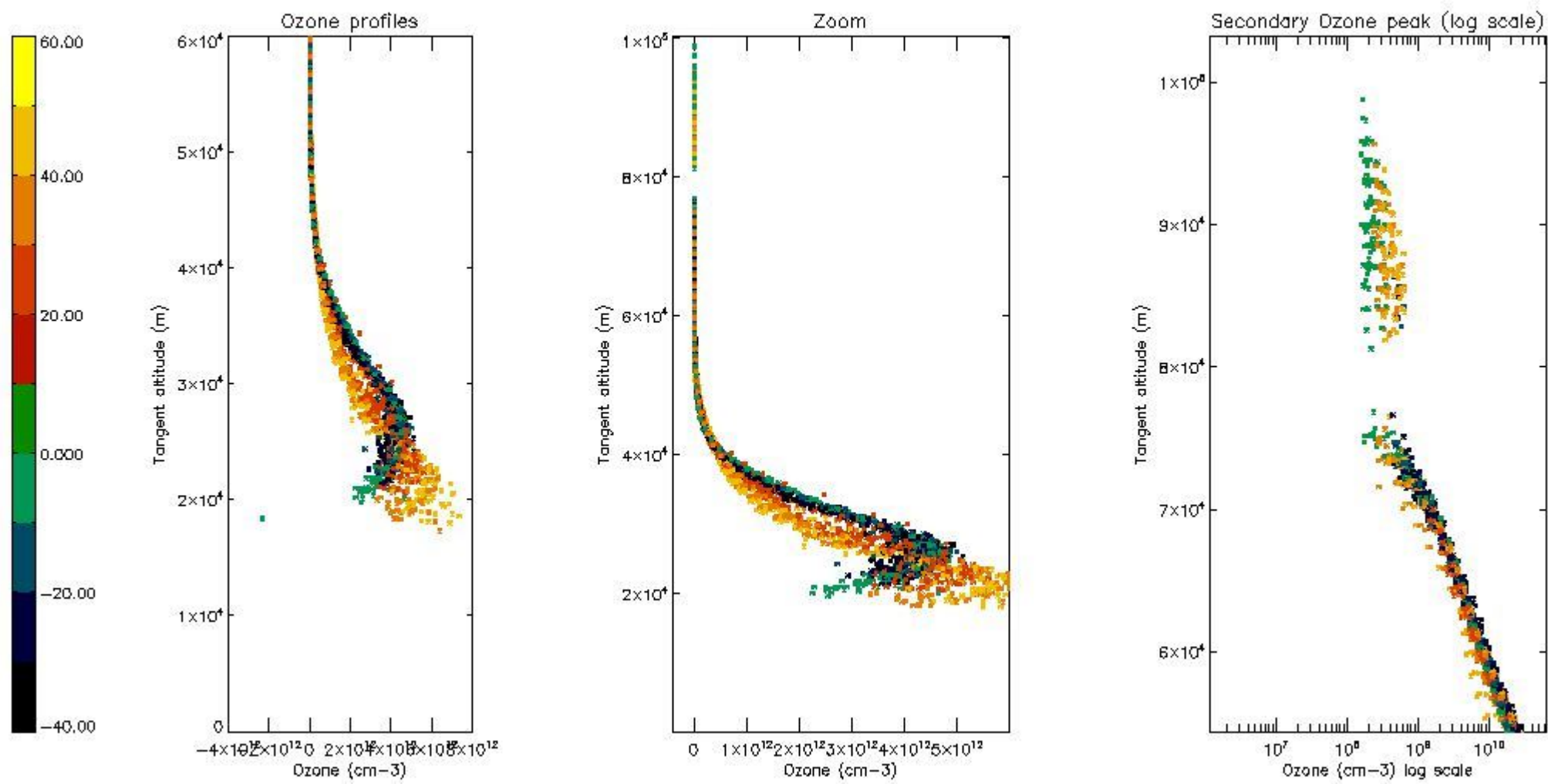
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



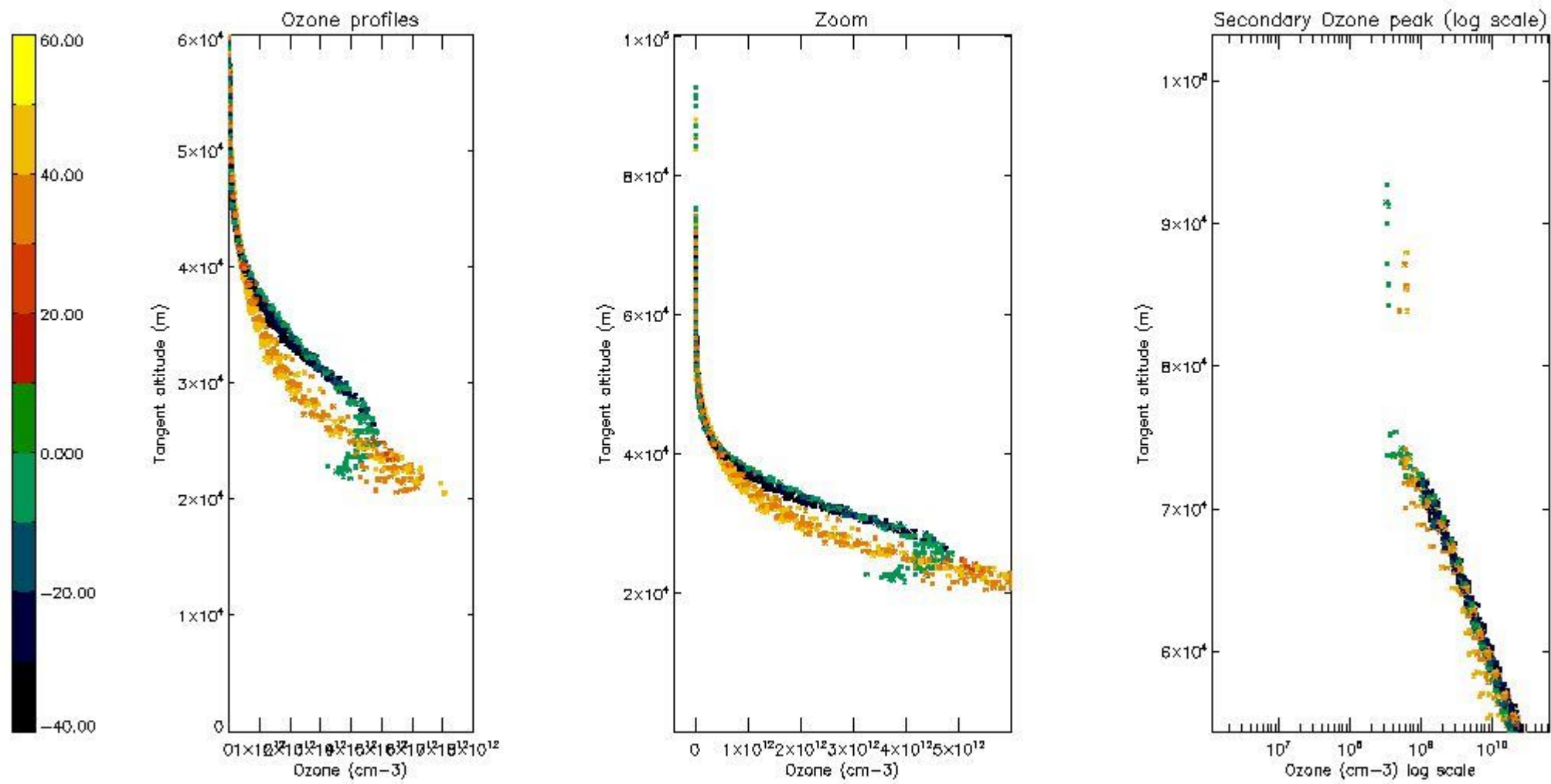
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



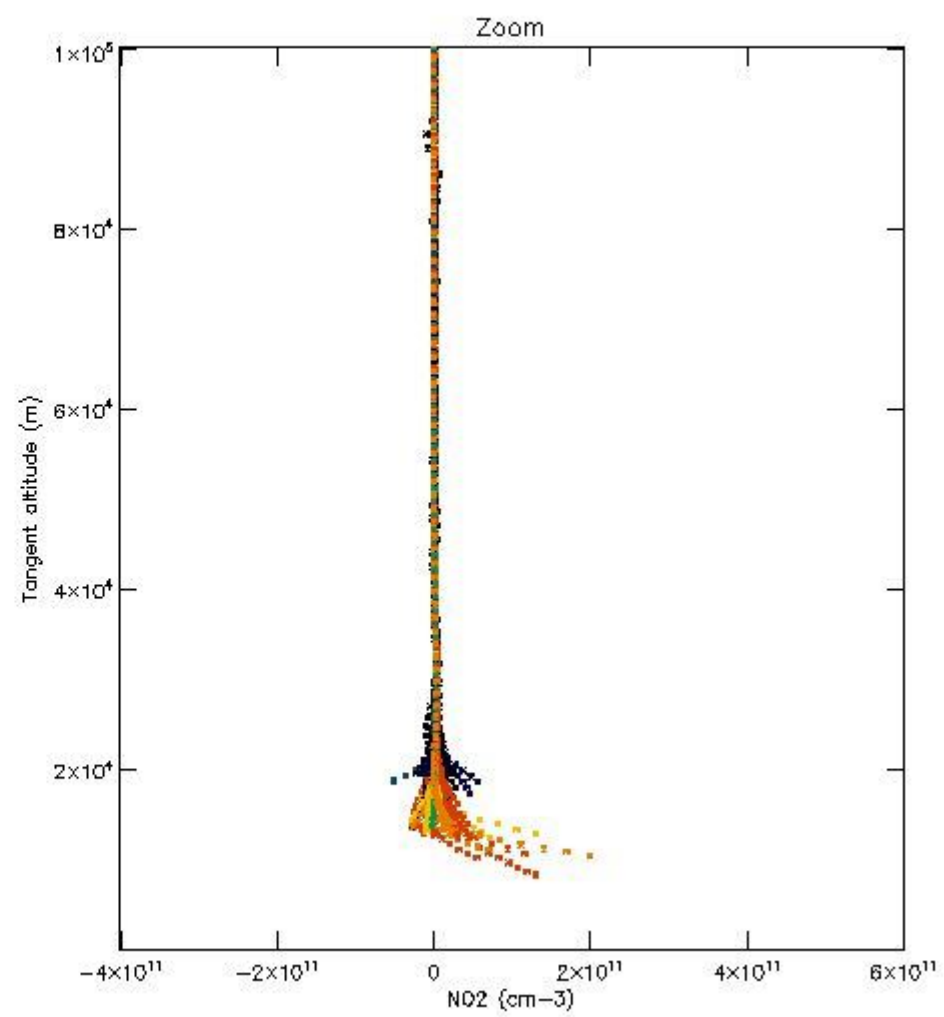
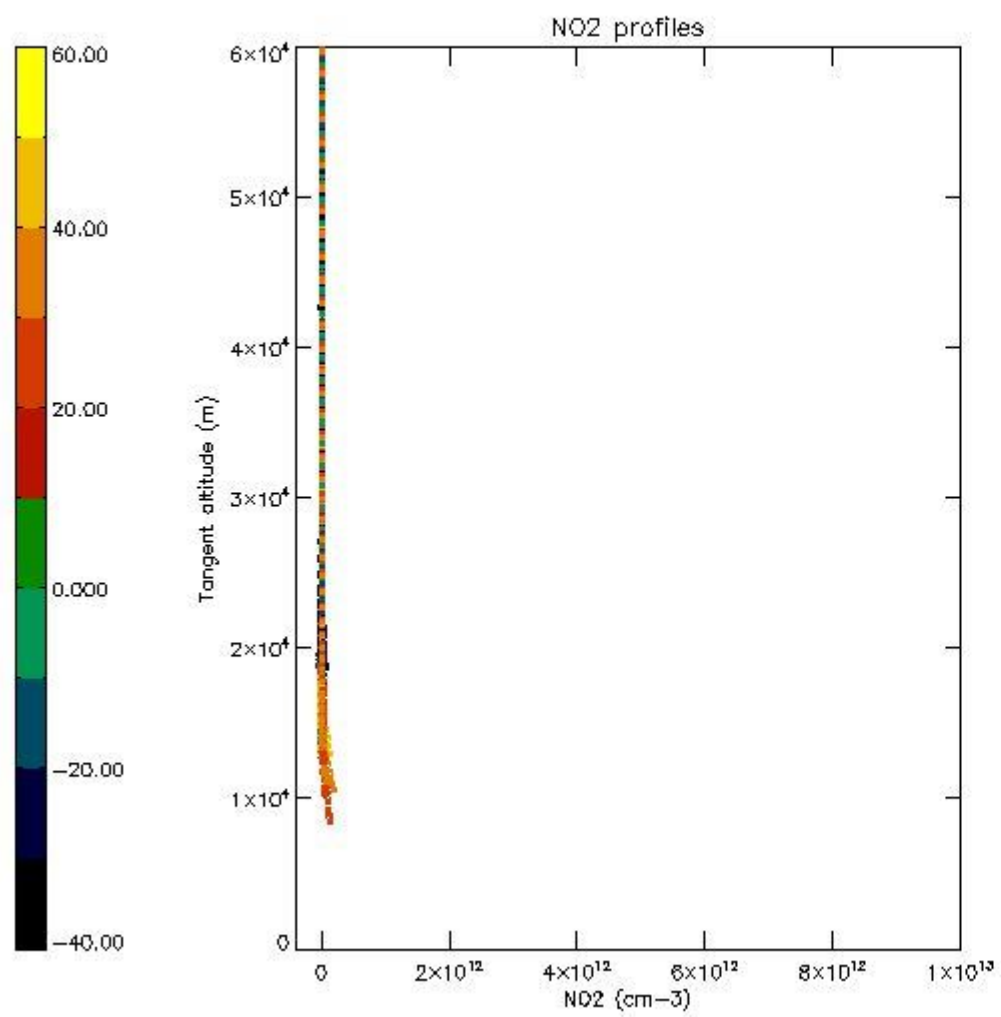
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



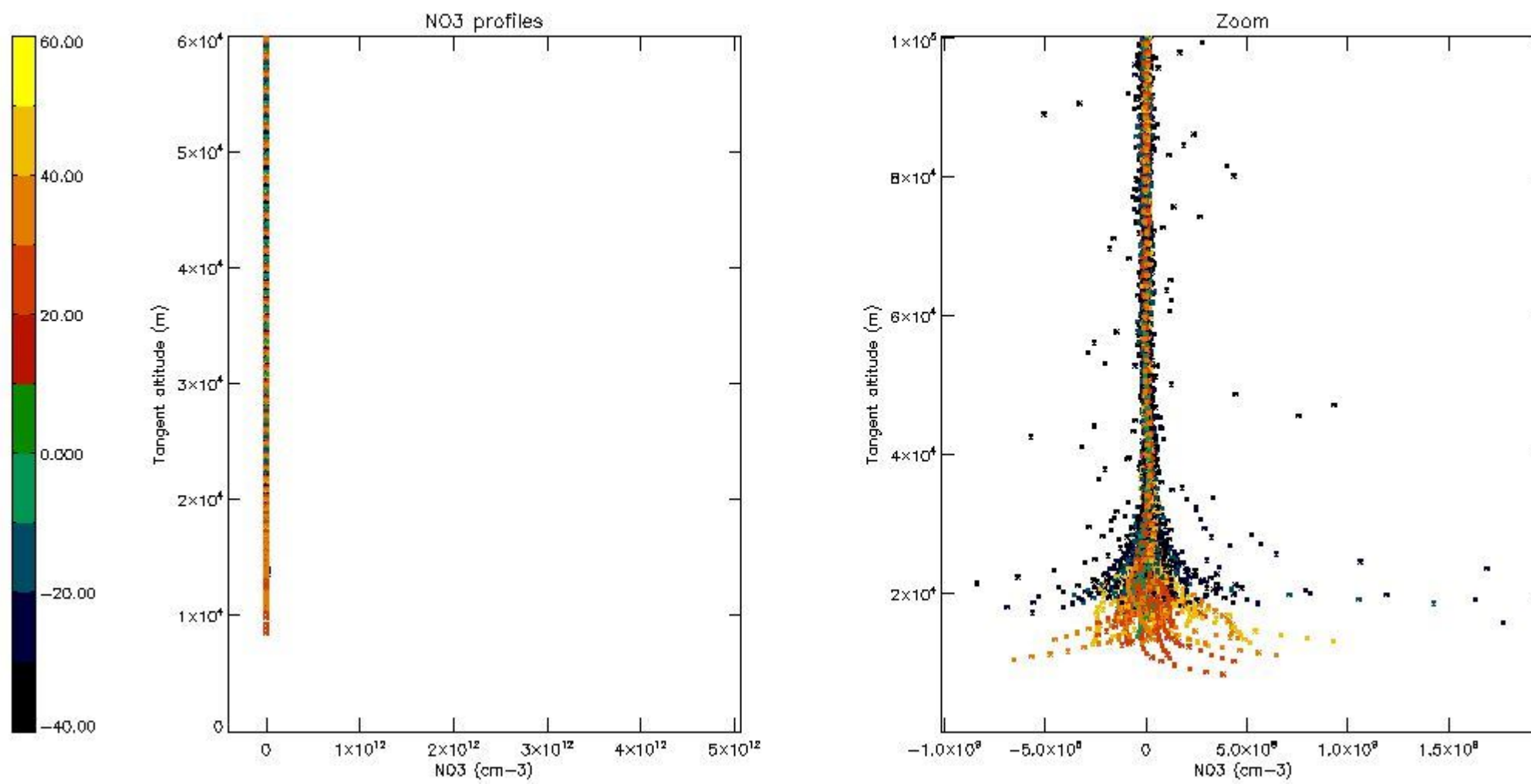
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	14-JAN-2011 00:02:03
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-JAN-2011 00:02:03
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-JAN-2011 00:02:03

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[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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[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

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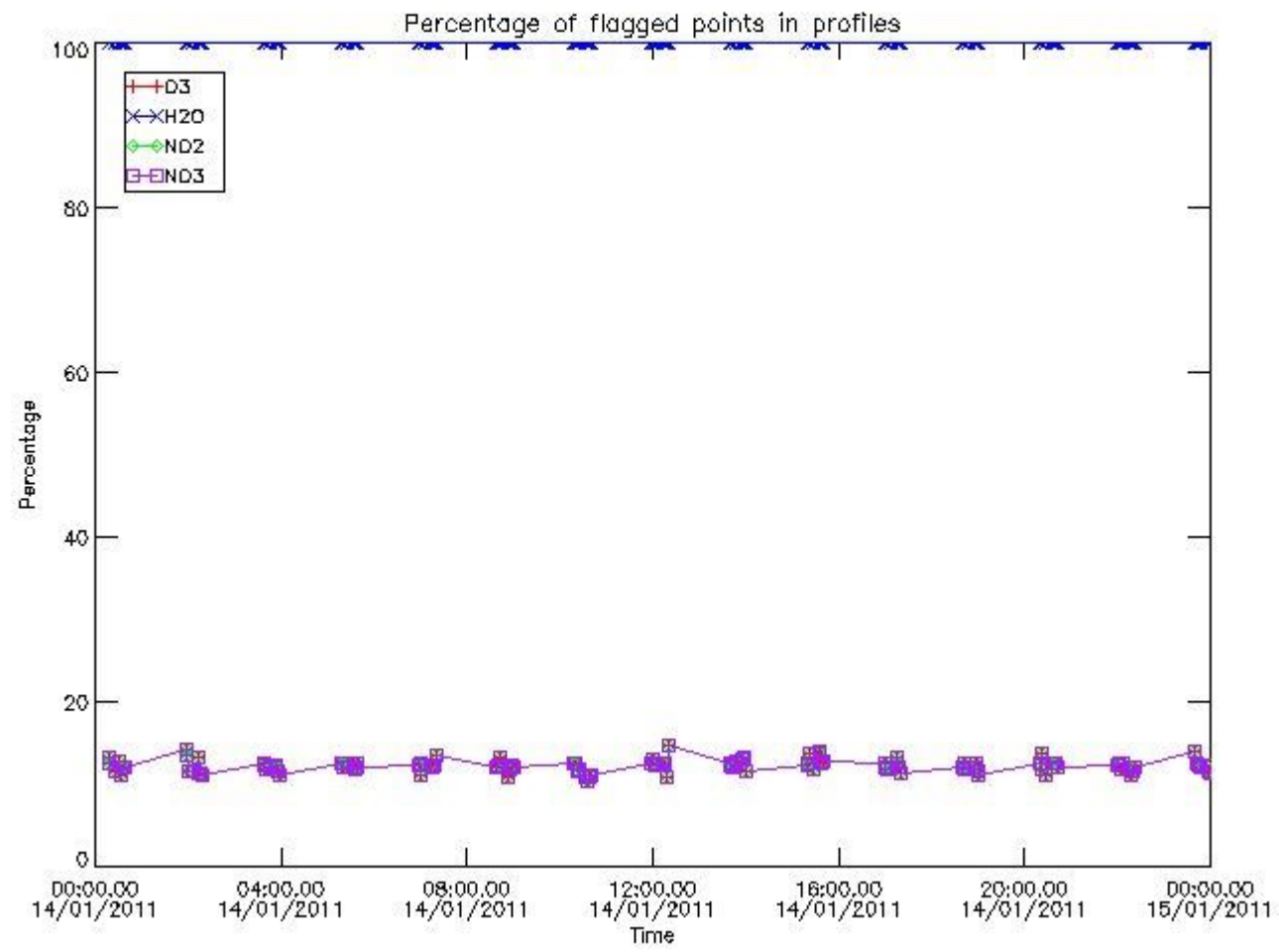
This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also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

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Store outputs in DB	Yes
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Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

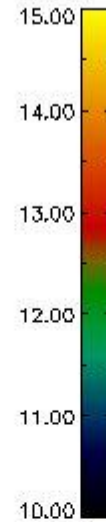
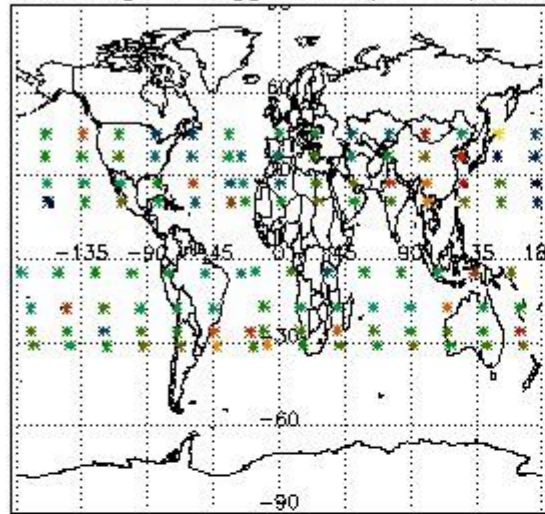
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110114_000203_000000613098_00260_46395_7201.N1	14-JAN-2011 00:02:03	Bright	61.000	102	24Alp Ser	2.6000	4250.0	122	46395	No
2	GOM_NL__2PRFIN20110114_000412_000000563098_00260_46395_7202.N1	14-JAN-2011 00:04:12	Bright	56.000	120	1Del Oph	2.7340	3200.0	112	46395	No
3	GOM_NL__2PRFIN20110114_000745_000000493098_00260_46395_7203.N1	14-JAN-2011 00:07:45	Twilight	49.000	104	27Bet Lib	2.6140	13100.	98	46395	No
4	GOM_NL__2PRFIN20110114_000945_000000463098_00260_46395_7204.N1	14-JAN-2011 00:09:45	Twilight	45.500	80	7Del Sco	2.3160	30000.	91	46395	No
5	GOM_NL__2PRFIN20110114_001654_000000413098_00260_46395_7205.N1	14-JAN-2011 00:16:54	Dark	41.000	109	Bet Lup	2.6770	26000.	82	46395	No
6	GOM_NL__2PRFIN20110114_001825_000000433098_00260_46395_7206.N1	14-JAN-2011 00:18:25	Dark	42.500	78	Alp Lup	2.3040	28000.	85	46395	No
7	GOM_NL__2PRFIN20110114_002430_000000453098_00261_46396_7193.N1	14-JAN-2011 00:24:30	Dark	44.500	20	Bet Cru	1.2530	30000.	89	46396	No
8	GOM_NL__2PRFIN20110114_003156_000000403098_00261_46396_7194.N1	14-JAN-2011 00:31:56	Dark	40.000	71	lot Car	2.2460	7700.0	80	46396	No
9	GOM_NL__2PRFIN20110114_003348_000000463098_00261_46396_7195.N1	14-JAN-2011 00:33:48	Dark	45.500	46	Del Vel	1.9540	10600.	91	46396	No
10	GOM_NL__2PRFIN20110114_003631_000000433098_00261_46396_7196.N1	14-JAN-2011 00:36:31	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	46396	No
11	GOM_NL__2PRFIN20110114_003840_000000433098_00261_46396_7197.N1	14-JAN-2011 00:38:40	Dark	42.500	70	Zet Pup	2.2460	39000.	85	46396	No
12	GOM_NL__2PRFIN20110114_004229_000000433098_00261_46396_7198.N1	14-JAN-2011 00:42:29	Straylight	42.500	88	31Eta CMa	2.4480	20000.	85	46396	No
13	GOM_NL__2PRFIN20110114_004420_000000433098_00261_46396_7199.N1	14-JAN-2011 00:44:20	Straylight	43.000	179	24Omi2CMa	3.0320	24000.	86	46396	No
14	GOM_NL__2PRFIN20110114_004634_000000533098_00261_46396_7200.N1	14-JAN-2011 00:46:34	Straylight	53.000	1	9Alp CMa	-1.4400	11000.	106	46396	No
15	GOM_NL__2PRFIN20110114_005324_000000623098_00261_46396_7201.N1	14-JAN-2011 00:53:24	Twilight	61.500	8	10Alp CMi	0.40000	6500.0	123	46396	No
16	GOM_NL__2PRFIN20110114_005616_000000433098_00261_46396_7202.N1	14-JAN-2011 00:56:16	Bright	43.000	44	24Gam Gem	1.9280	11000.	86	46396	No
17	GOM_NL__2PRFIN20110114_005759_000000423098_00261_46396_7203.N1	14-JAN-2011 00:57:59	Bright	42.000	151	13Mu Gem	2.8900	3000.0	84	46396	No
18	GOM_NL__2PRFIN20110114_010101_000000503098_00261_46396_7204.N1	14-JAN-2011 01:01:01	Bright	49.500	17	78Bet Gem	1.1610	4500.0	99	46396	No
19	GOM_NL__2PRFIN20110114_012047_000000393098_00261_46396_7205.N1	14-JAN-2011 01:20:47	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	46396	No
20	GOM_NL__2PRFIN20110114_012503_000000383098_00261_46396_7206.N1	14-JAN-2011 01:25:03	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	46396	No
21	GOM_NL__2PRFIN20110114_013349_000000543098_00261_46396_7207.N1	14-JAN-2011 01:33:49	Bright	54.000	133	40Zet Her	2.8070	6000.0	108	46396	No
22	GOM_NL__2PRFIN20110114_013600_000000603098_00261_46396_7208.N1	14-JAN-2011 01:36:00	Bright	60.000	67	5Alp CrB	2.2210	11000.	120	46396	No
23	GOM_NL__2PRFIN20110114_014218_000000613098_00261_46396_7209.N1	14-JAN-2011 01:42:18	Bright	61.000	102	24Alp Ser	2.6000	4250.0	122	46396	No
24	GOM_NL__2PRFIN20110114_014426_000000563098_00261_46396_7210.N1	14-JAN-2011 01:44:26	Bright	56.000	120	1Del Oph	2.7340	3200.0	112	46396	No
25	GOM_NL__2PRFIN20110114_014800_000000493098_00261_46396_7211.N1	14-JAN-2011 01:48:00	Twilight	48.500	104	27Bet Lib	2.6140	13100.	97	46396	No
26	GOM_NL__2PRFIN20110114_014959_000000463098_00261_46396_7212.N1	14-JAN-2011 01:49:59	Twilight	45.500	80	7Del Sco	2.3160	30000.	91	46396	No
27	GOM_NL__2PRFIN20110114_015709_000000403098_00261_46396_7213.N1	14-JAN-2011 01:57:09	Dark	39.500	109	Bet Lup	2.6770	26000.	79	46396	No
28	GOM_NL__2PRFIN20110114_015839_000000423098_00261_46396_7214.N1	14-JAN-2011 01:58:39	Dark	41.500	78	Alp Lup	2.3040	28000.	83	46396	No
29	GOM_NL__2PRFIN20110114_020038_000000443098_00262_46397_7205.N1	14-JAN-2011 02:00:38	Dark	44.000	95	Zet Cen	2.5450	26000.	88	46397	No
30	GOM_NL__2PRFIN20110114_020445_000000443098_00262_46397_7206.N1	14-JAN-2011 02:04:45	Dark	44.000	20	Bet Cru	1.2530	30000.	88	46397	No
31	GOM_NL__2PRFIN20110114_021210_000000453098_00262_46397_7207.N1	14-JAN-2011 02:12:10	Dark	45.000	71	lot Car	2.2460	7700.0	90	46397	No
32	GOM_NL__2PRFIN20110114_021402_000000423098_00262_46397_7208.N1	14-JAN-2011 02:14:02	Dark	42.000	46	Del Vel	1.9540	10600.	84	46397	No
33	GOM_NL__2PRFIN20110114_021645_000000453098_00262_46397_7209.N1	14-JAN-2011 02:16:45	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	46397	No
34	GOM_NL__2PRFIN20110114_021854_000000463098_00262_46397_7210.N1	14-JAN-2011 02:18:54	Dark	46.000	70	Zet Pup	2.2460	39000.	92	46397	No
35	GOM_NL__2PRFIN20110114_022243_000000443098_00262_46397_7211.N1	14-JAN-2011 02:22:43	Straylight	43.500	88	31Eta CMa	2.4480	20000.	87	46397	No
36	GOM_NL__2PRFIN20110114_022435_000000433098_00262_46397_7212.N1	14-JAN-2011 02:24:35	Straylight	43.000	179	24Omi2CMa	3.0320	24000.	86	46397	No
37	GOM_NL__2PRFIN20110114_022648_000000513098_00262_46397_7213.N1	14-JAN-2011 02:26:48	Straylight	51.000	1	9Alp CMa	-1.4400	11000.	102	46397	No
38	GOM_NL__2PRFIN20110114_023338_000000623098_00262_46397_7214.N1	14-JAN-2011 02:33:38	Twilight	61.500	8	10Alp CMi	0.40000	6500.0	123	46397	No
39	GOM_NL__2PRFIN20110114_023630_000000523098_00262_46397_7215.N1	14-JAN-2011 02:36:30	Bright	52.000	44	24Gam Gem	1.9280	11000.	104	46397	No
40	GOM_NL__2PRFIN20110114_023813_000000423098_00262_46397_7216.N1	14-JAN-2011 02:38:13	Bright	42.000	151	13Mu Gem	2.8900	3000.0	84	46397	No
41	GOM_NL__2PRFIN20110114_024115_000000483098_00262_46397_7217.N1	14-JAN-2011 02:41:15	Bright	48.000	17	78Bet Gem	1.1610	4500.0	96	46397	No
42	GOM_NL__2PRFIN20110114_030101_000000363098_00262_46397_7218.N1	14-JAN-2011 03:01:01	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	46397	No

3.1 Plot quality information per product (time dependant)

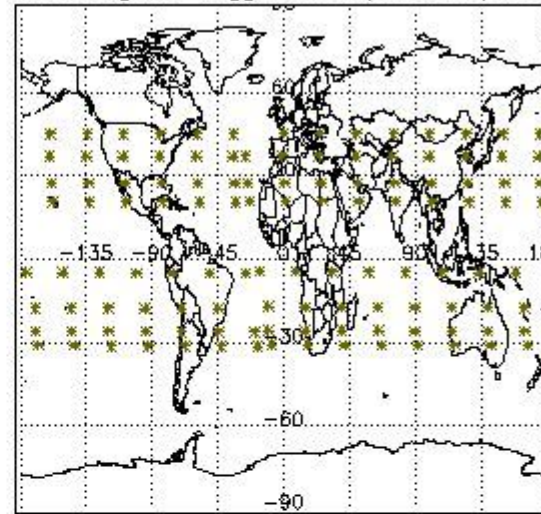


3.2 Plot quality information per product (world map)

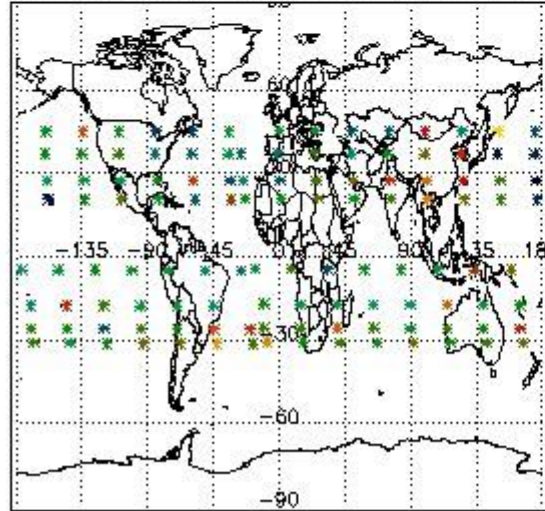
Percentage of flagged data per O3 profile



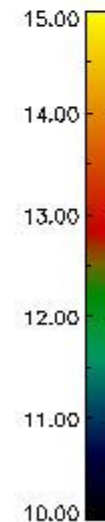
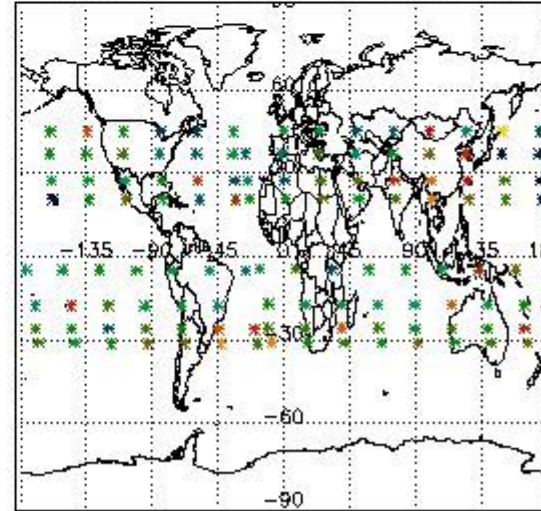
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

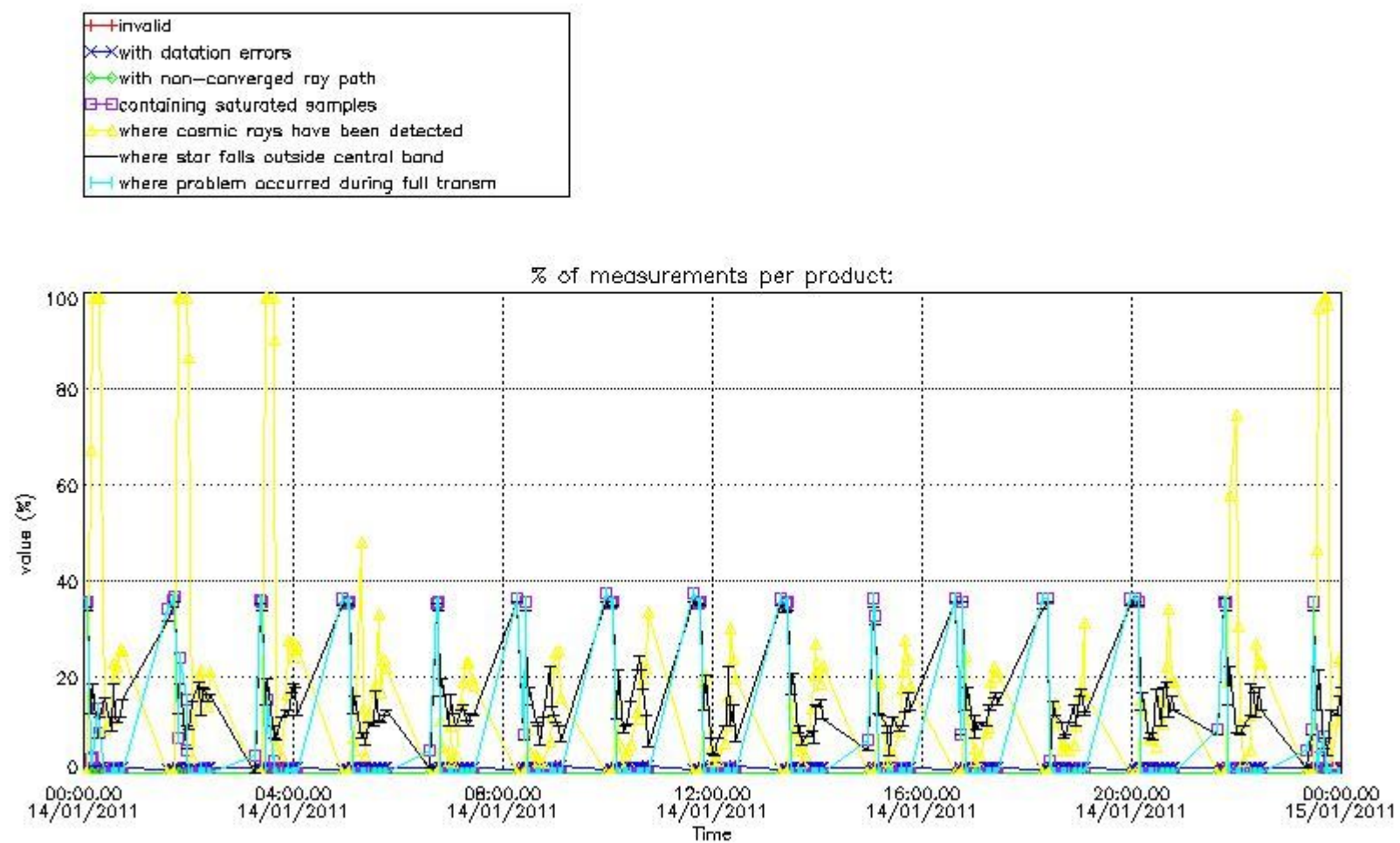


4. Level 1 quality information per product

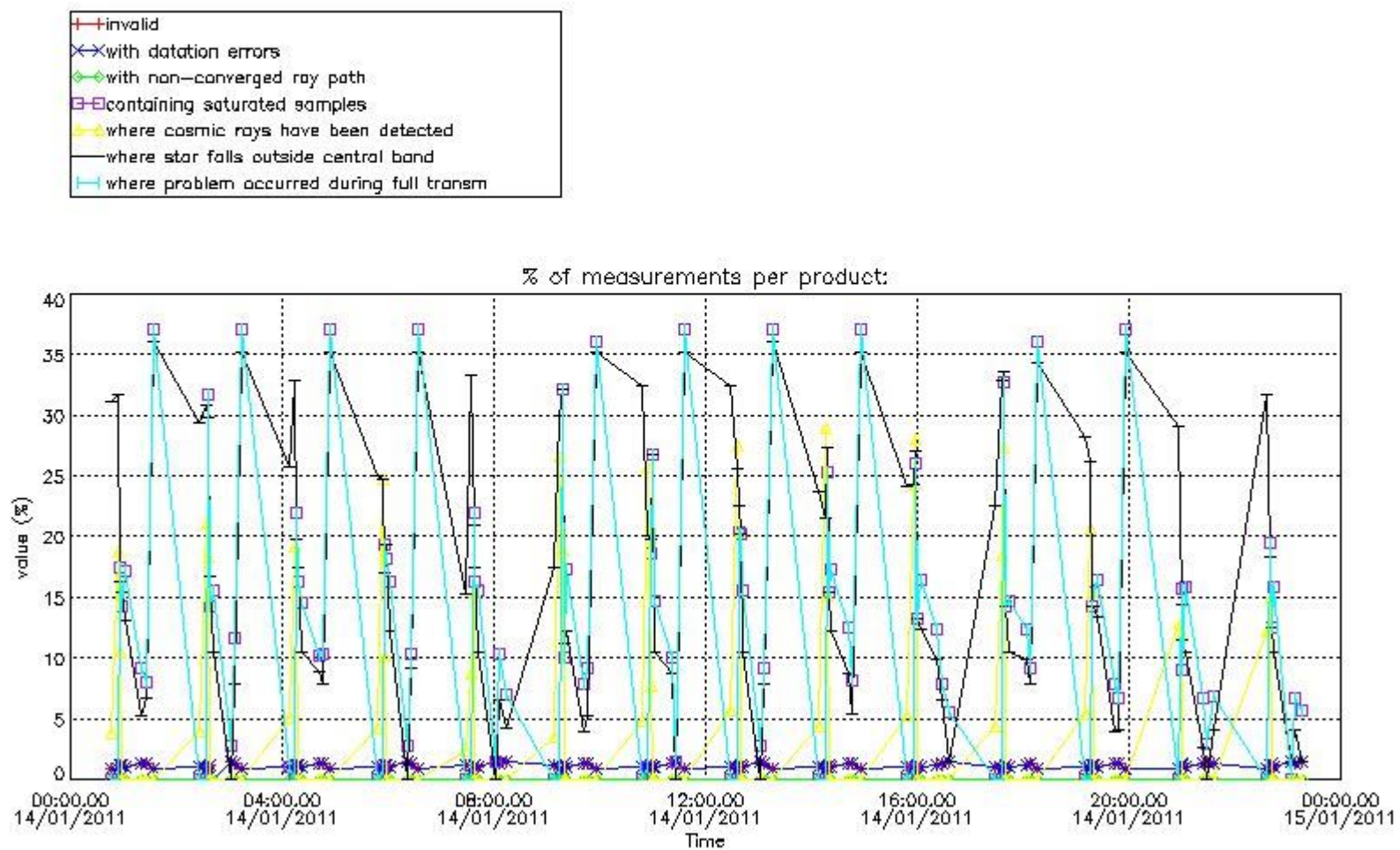
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



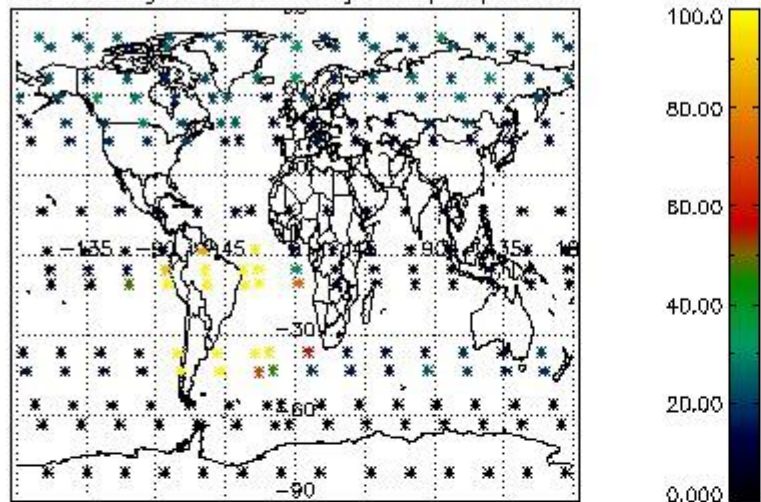
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



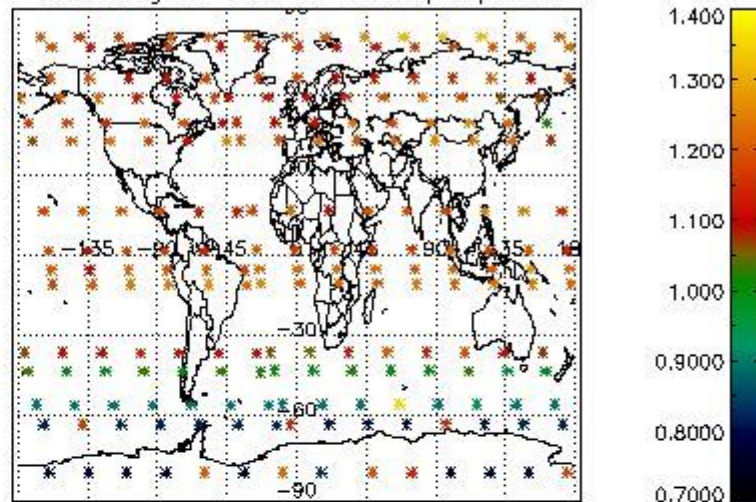
4.2 Plot quality information per product coming from level 1b processing (world map)

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

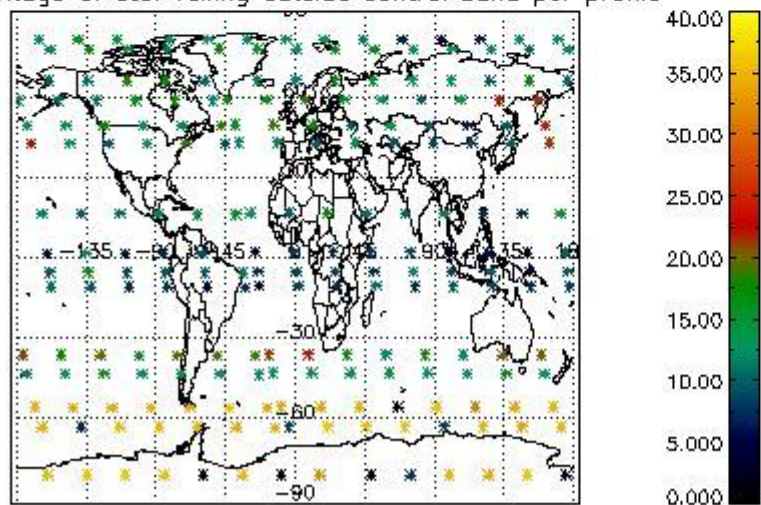
Percentage of cosmic ray hits per profile



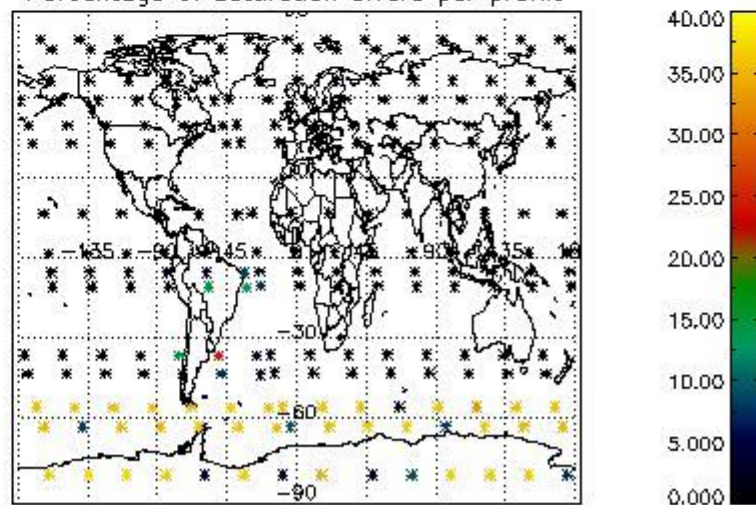
Percentage of datation errors per profile



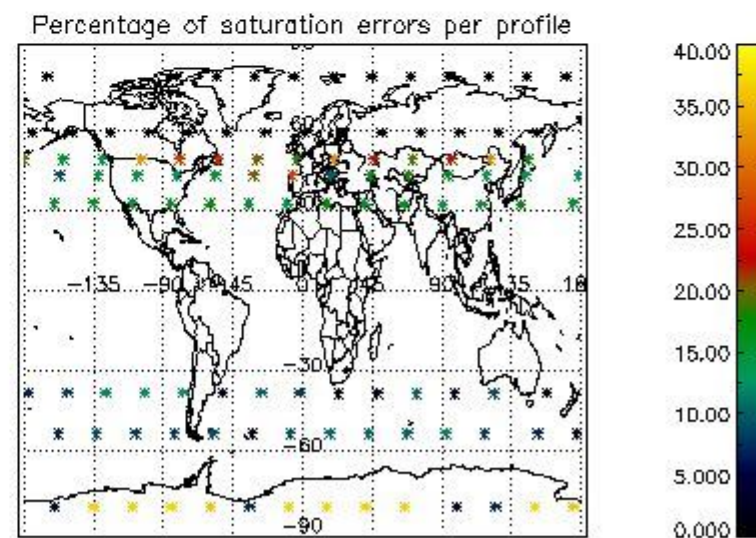
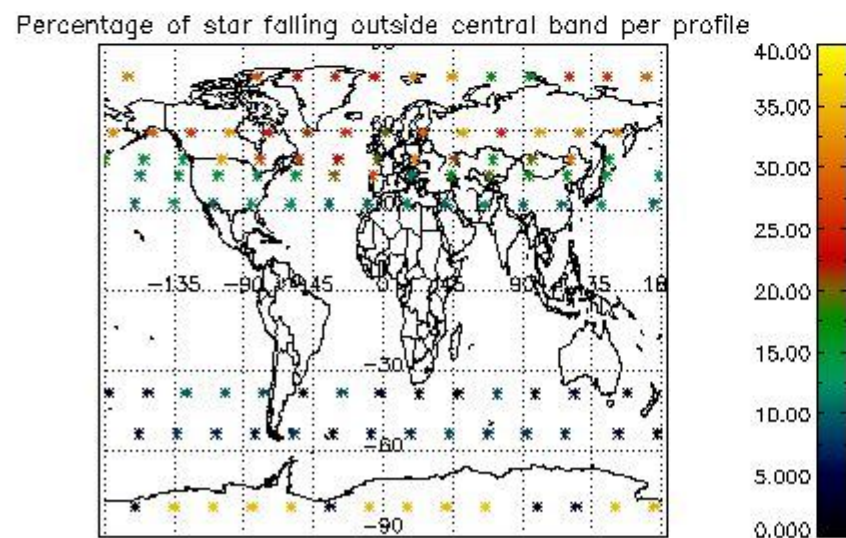
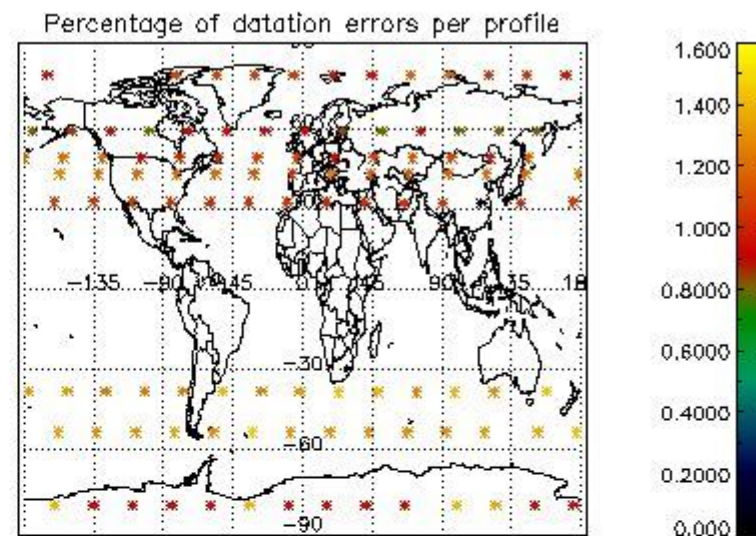
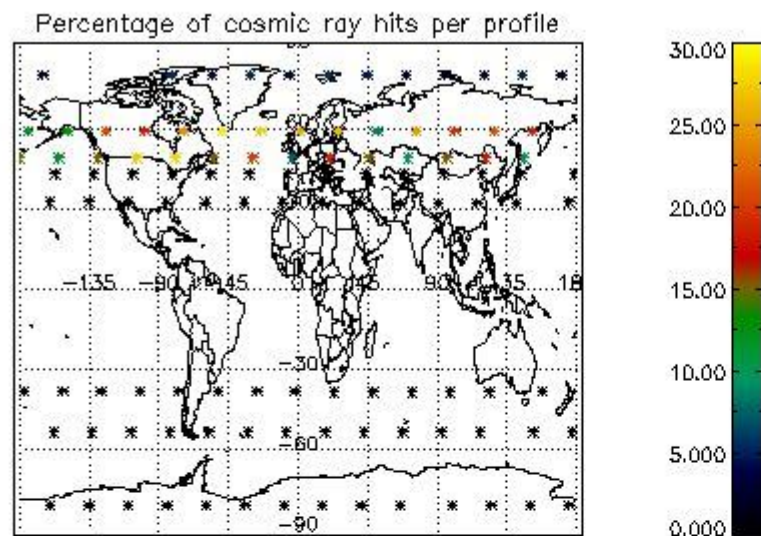
Percentage of star falling outside central band per profile



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

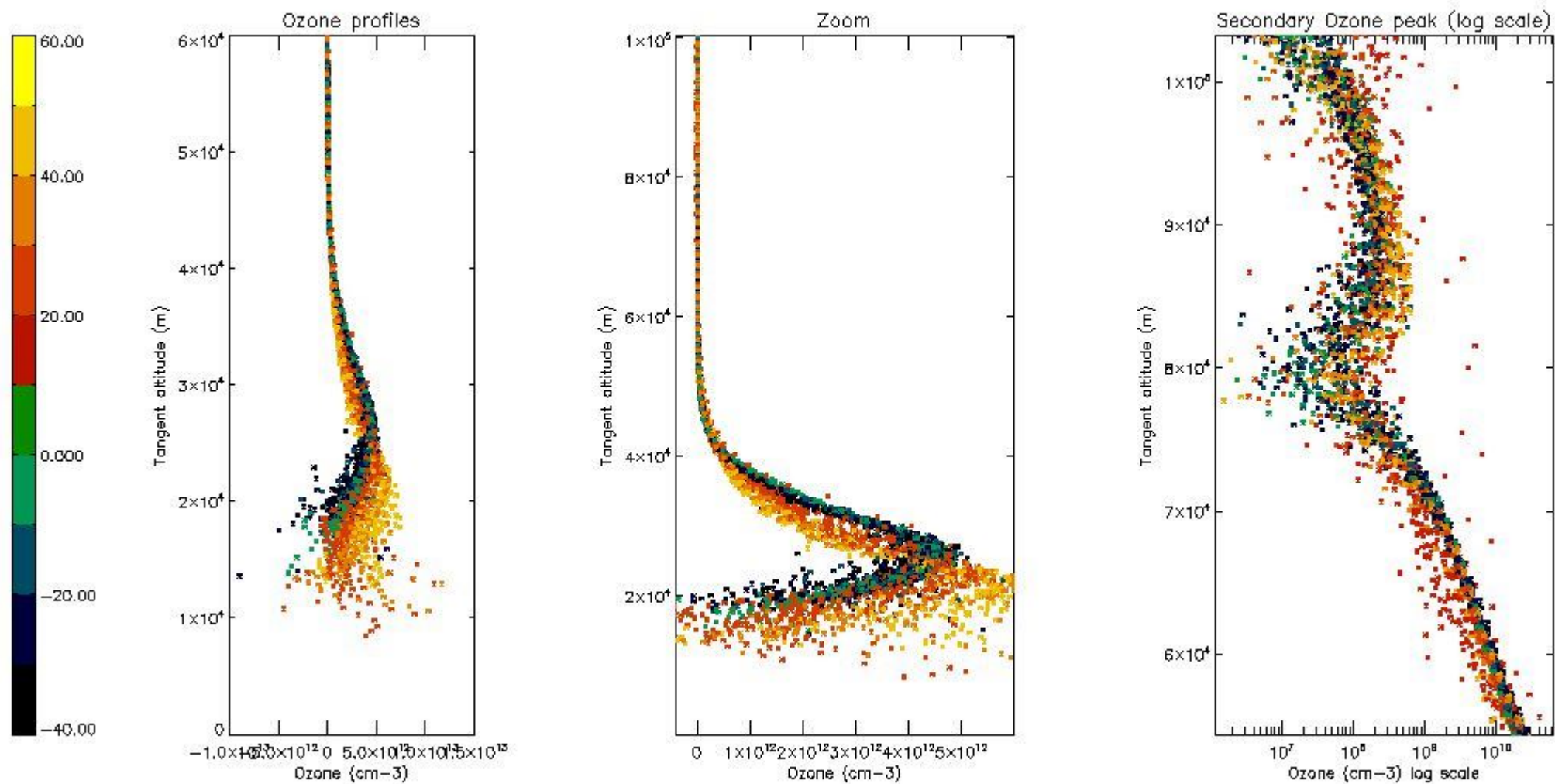
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	16
STD < 5	11

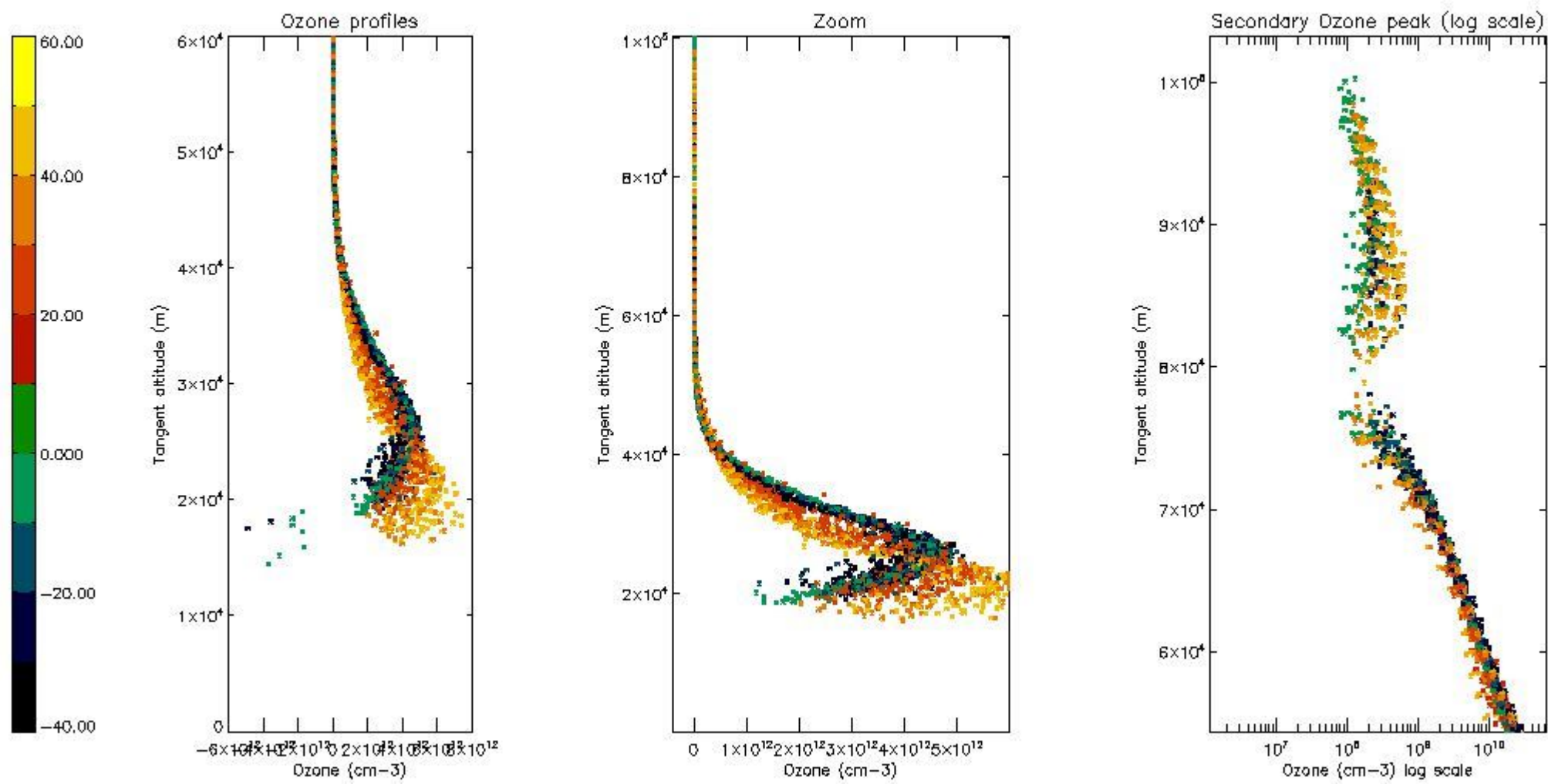
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



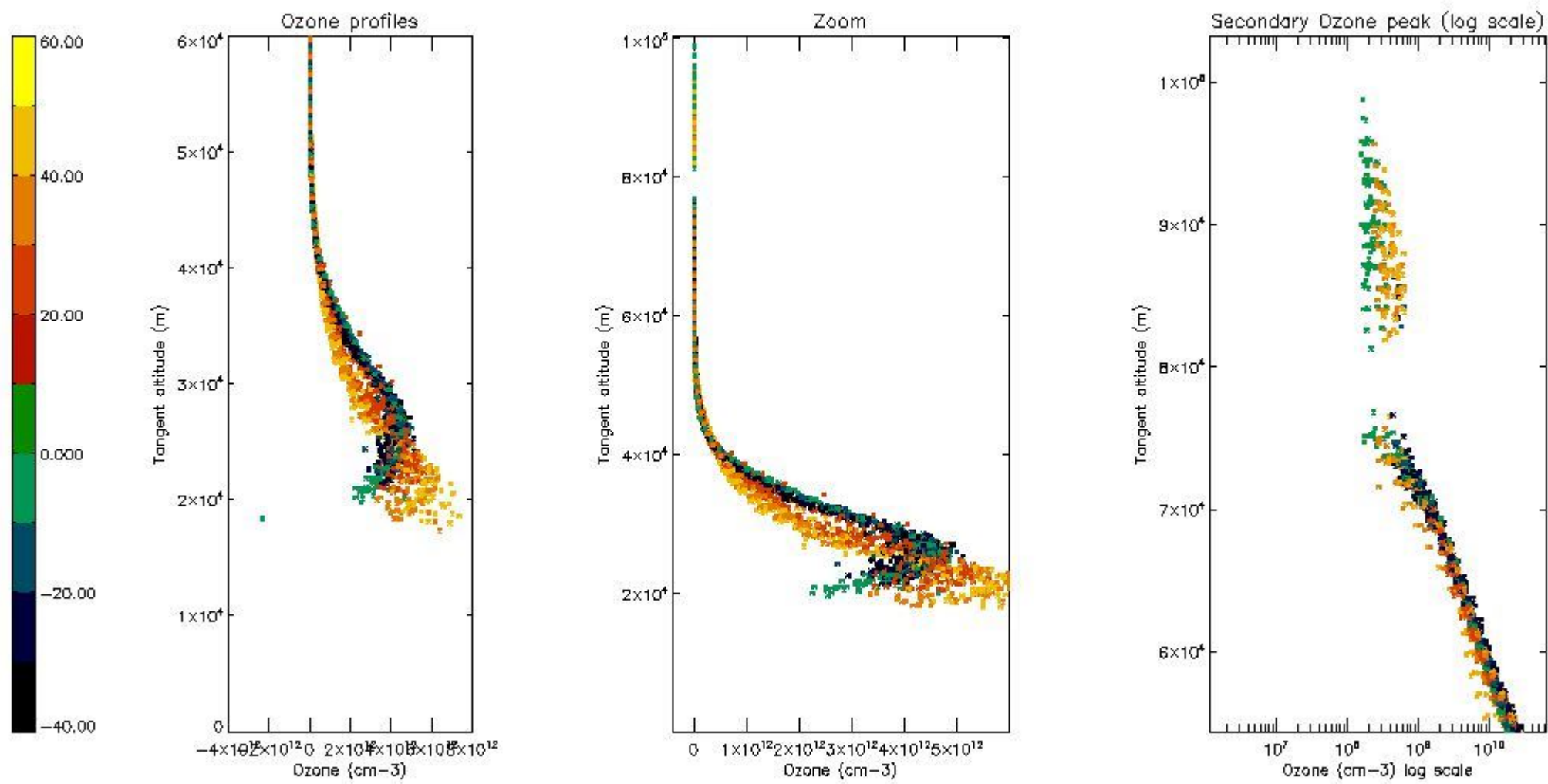
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



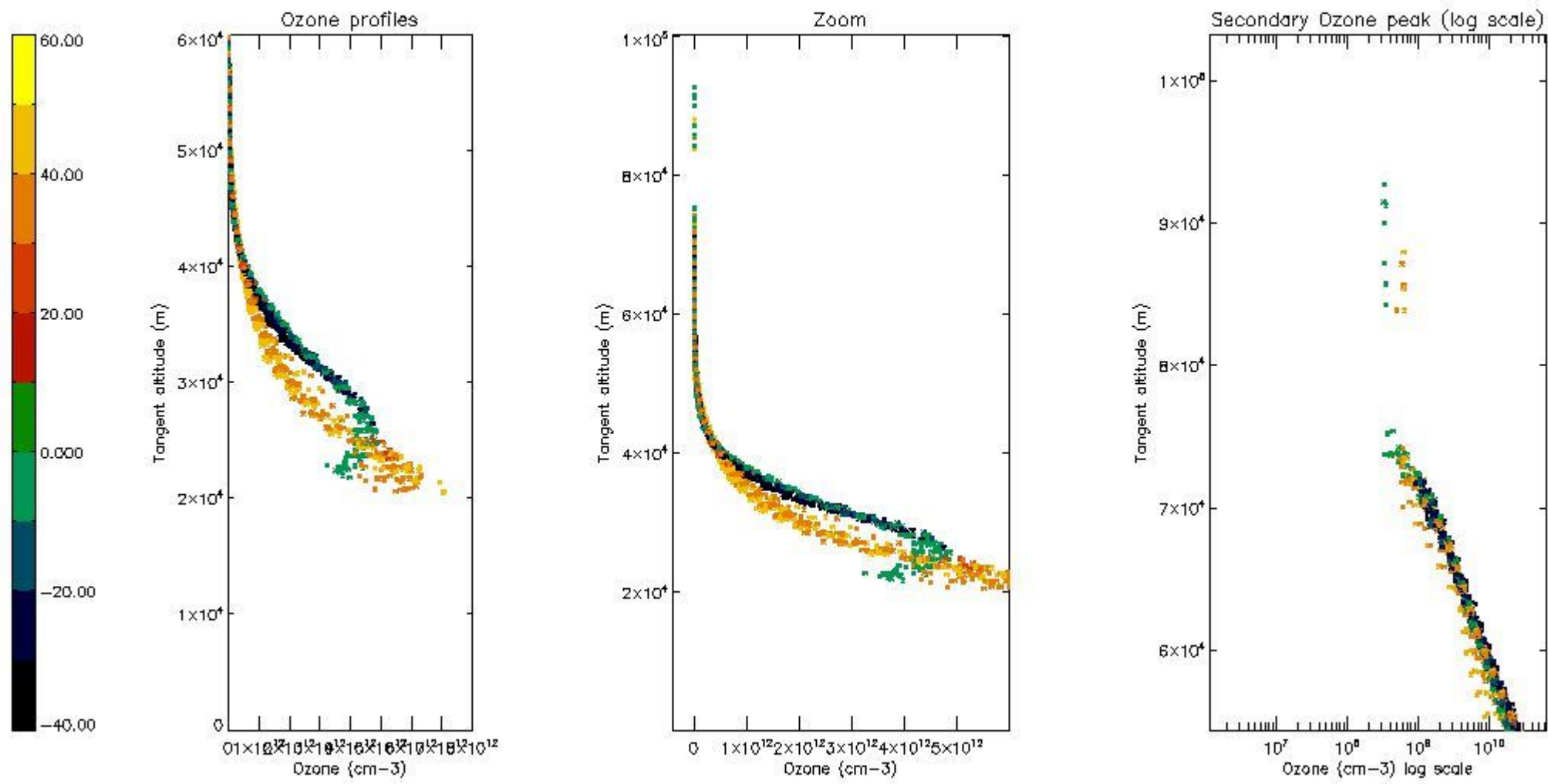
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



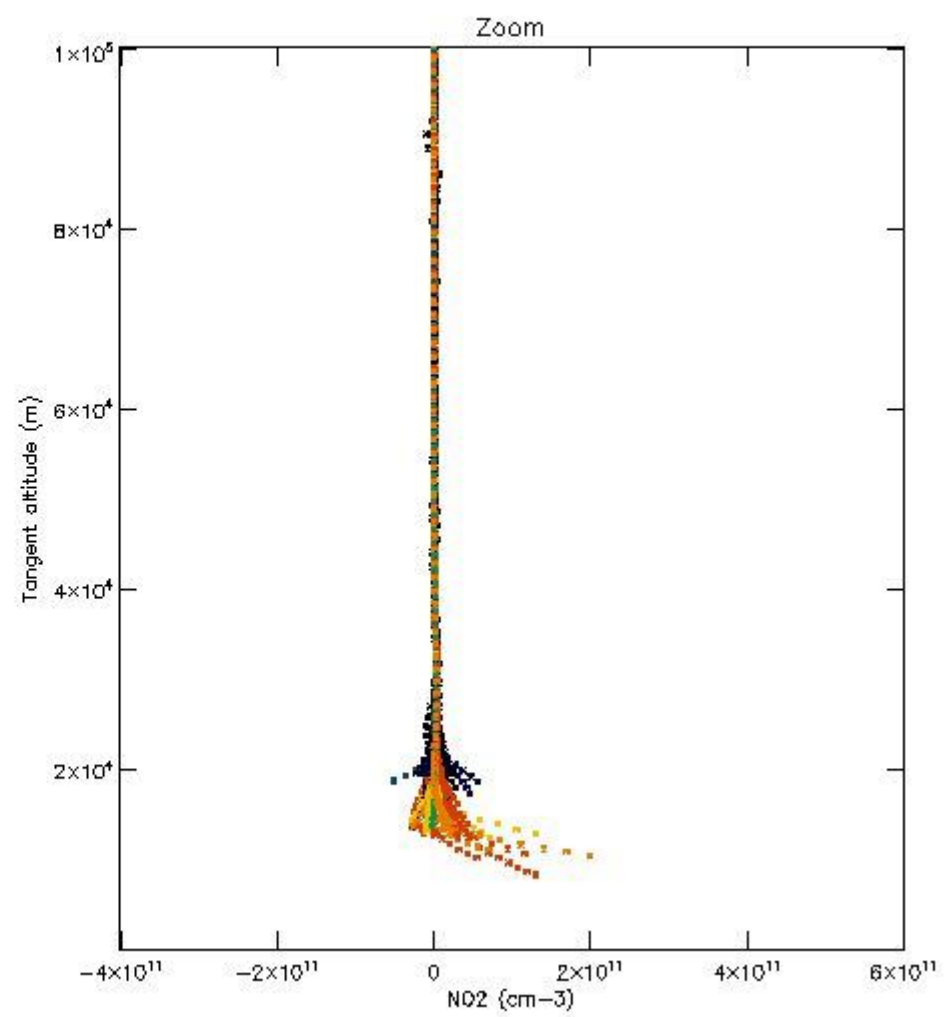
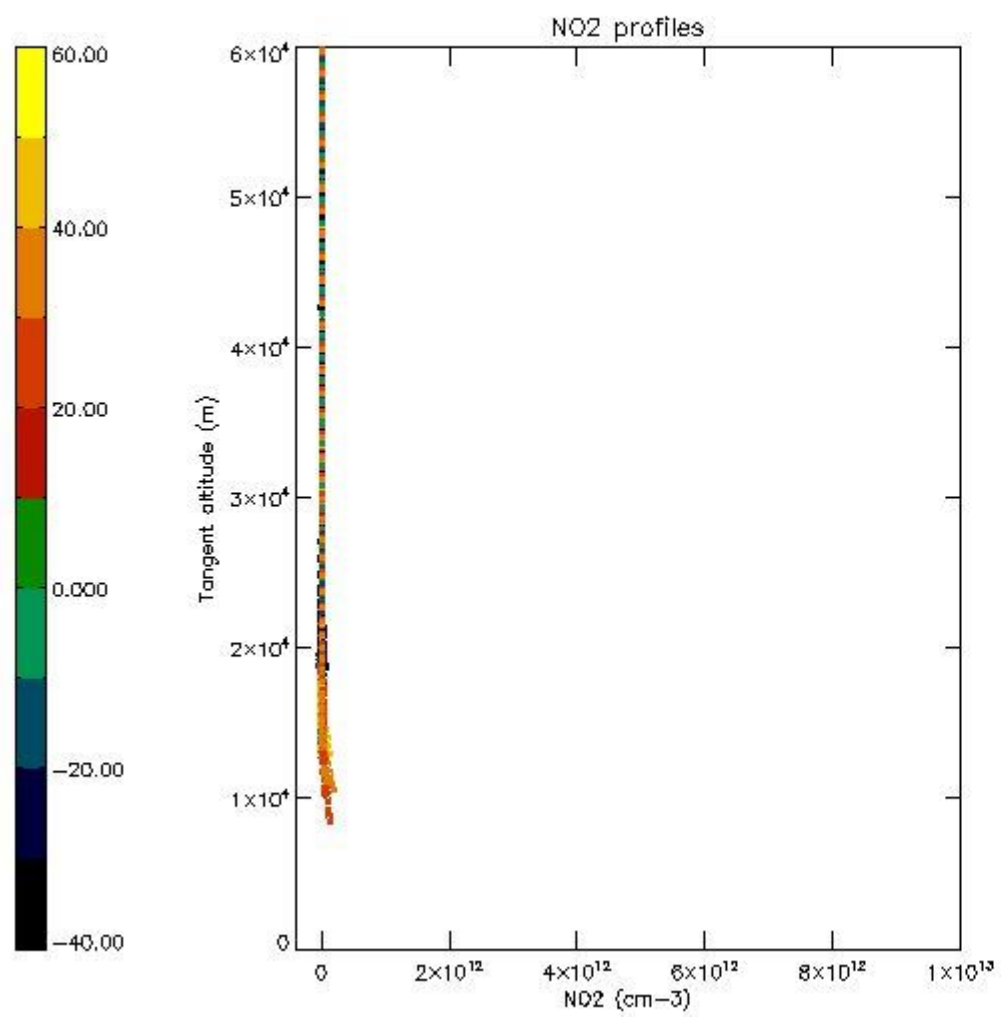
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



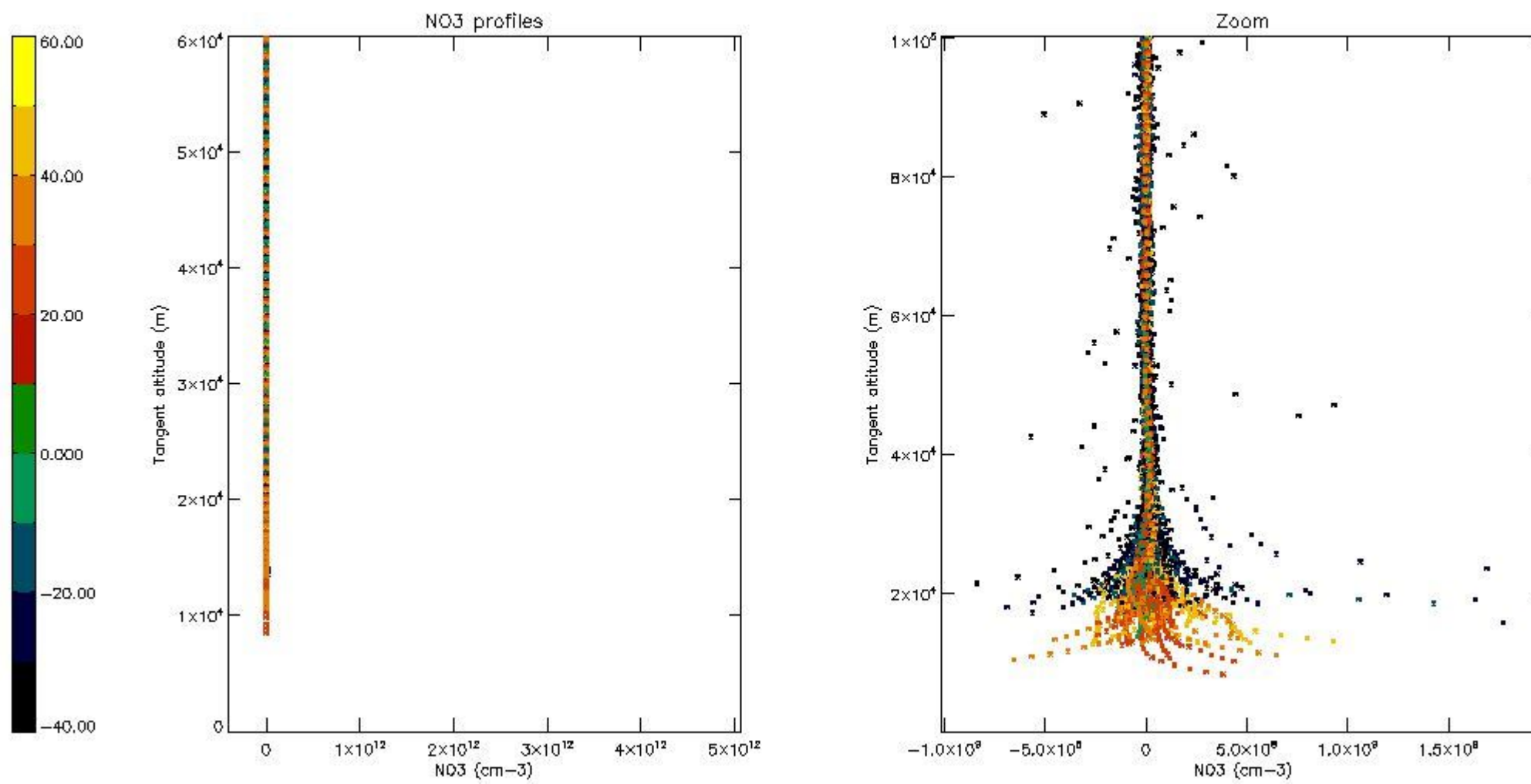
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

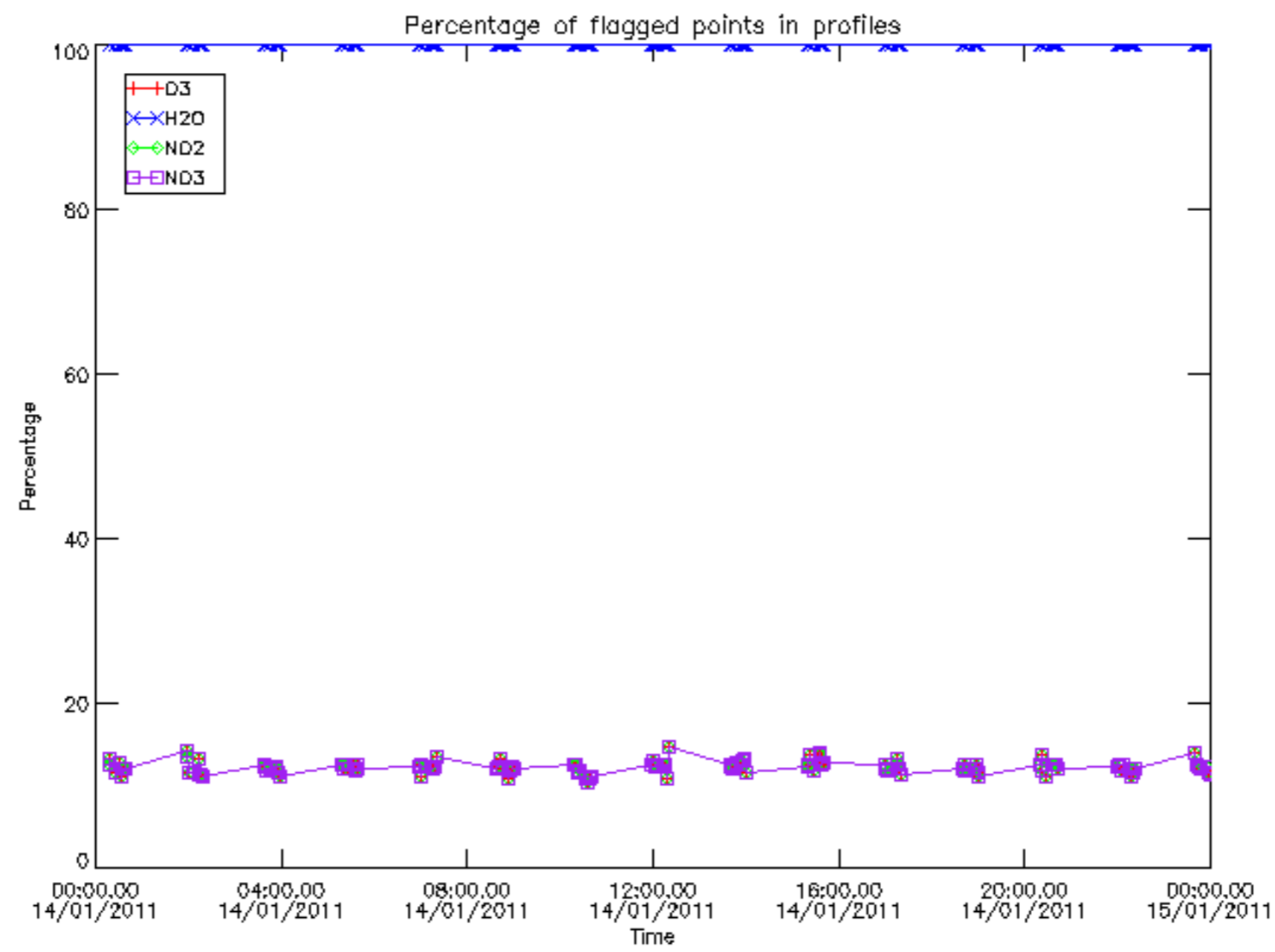
The colorbar represents the latitude.



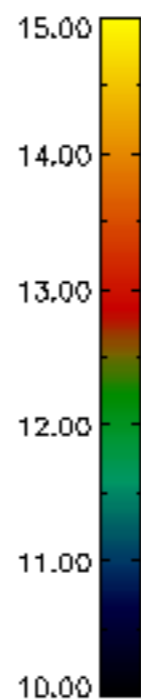
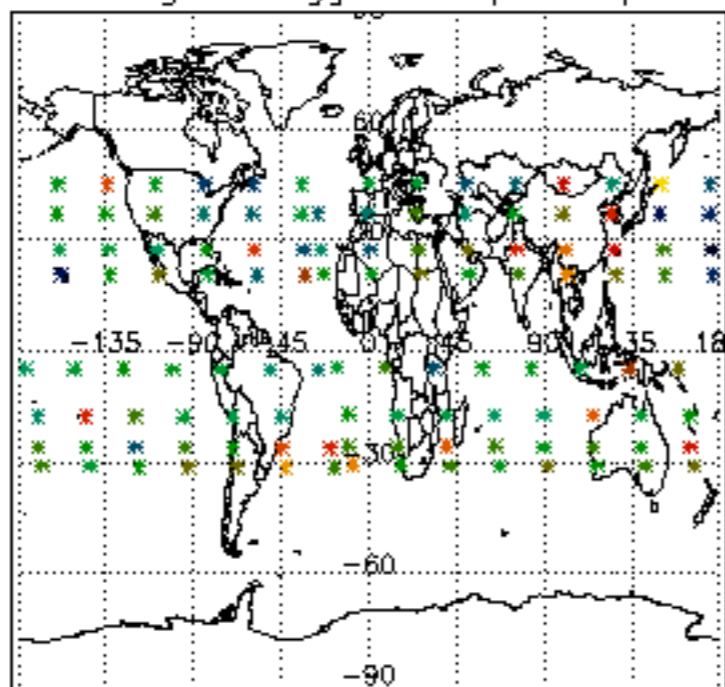
6. Auxiliary Data Files used for the production reported in section 2

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.

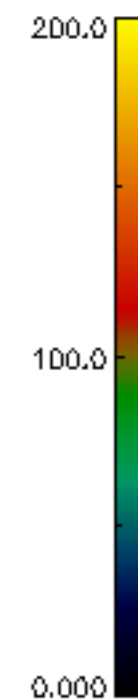
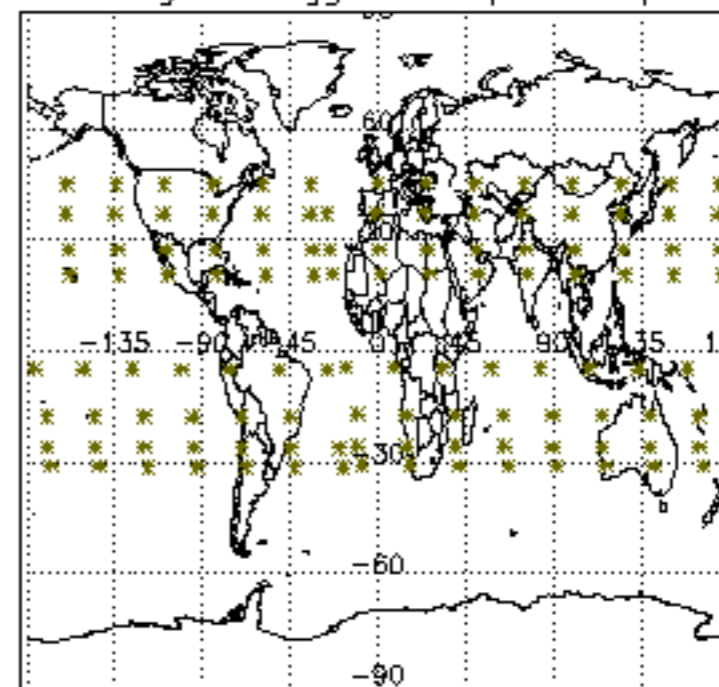
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	14-JAN-2011 00:02:03
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-JAN-2011 00:02:03
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-JAN-2011 00:02:03



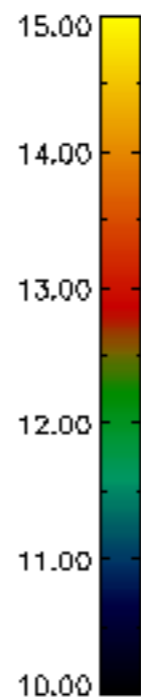
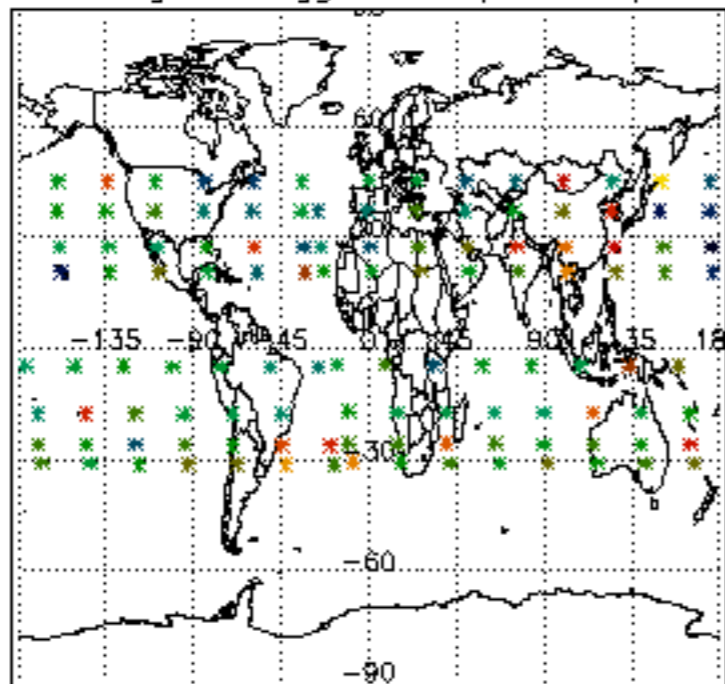
Percentage of flagged data per D3 profile



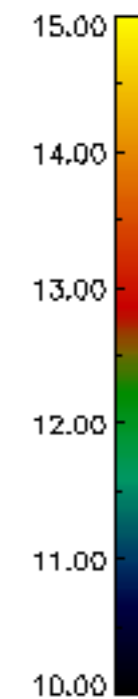
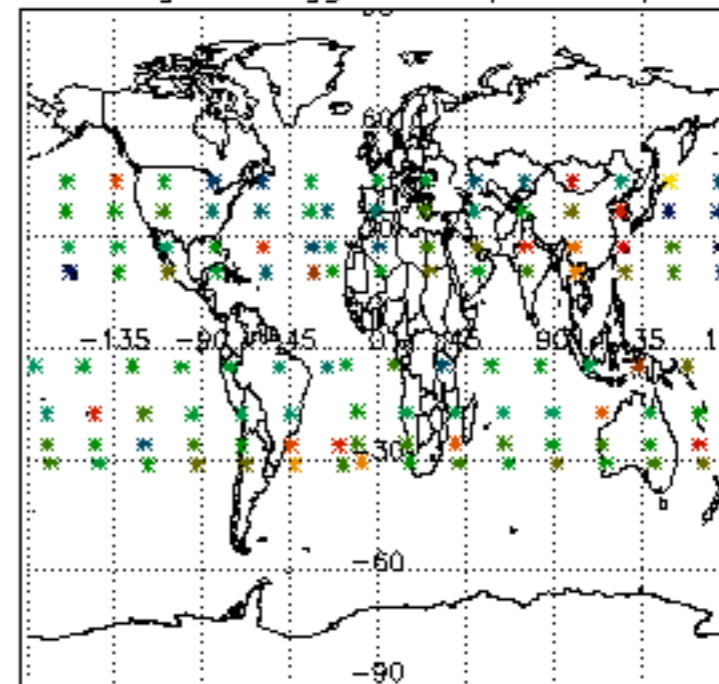
Percentage of flagged data per H2O profile

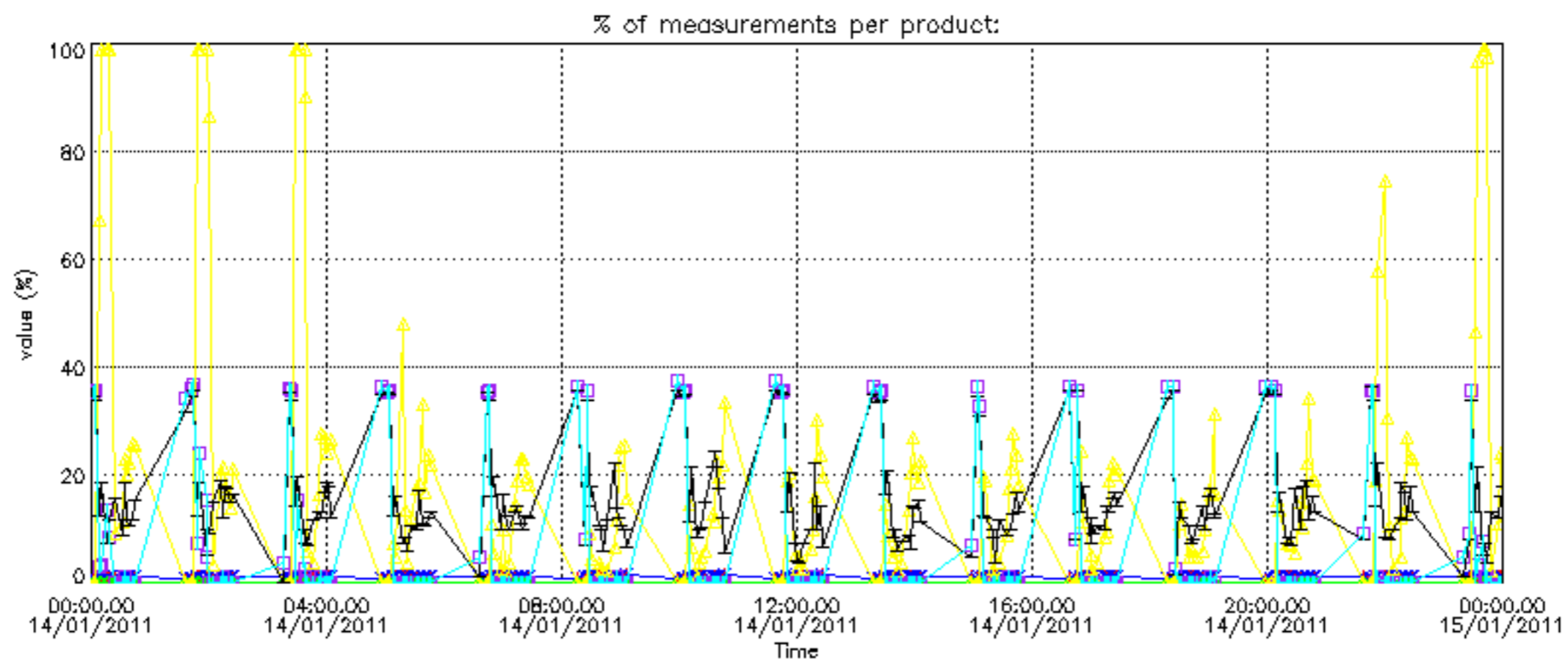
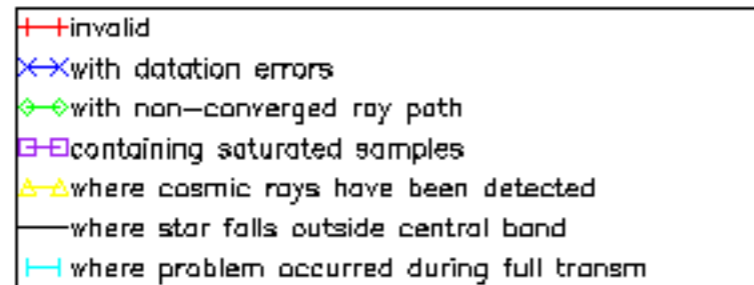


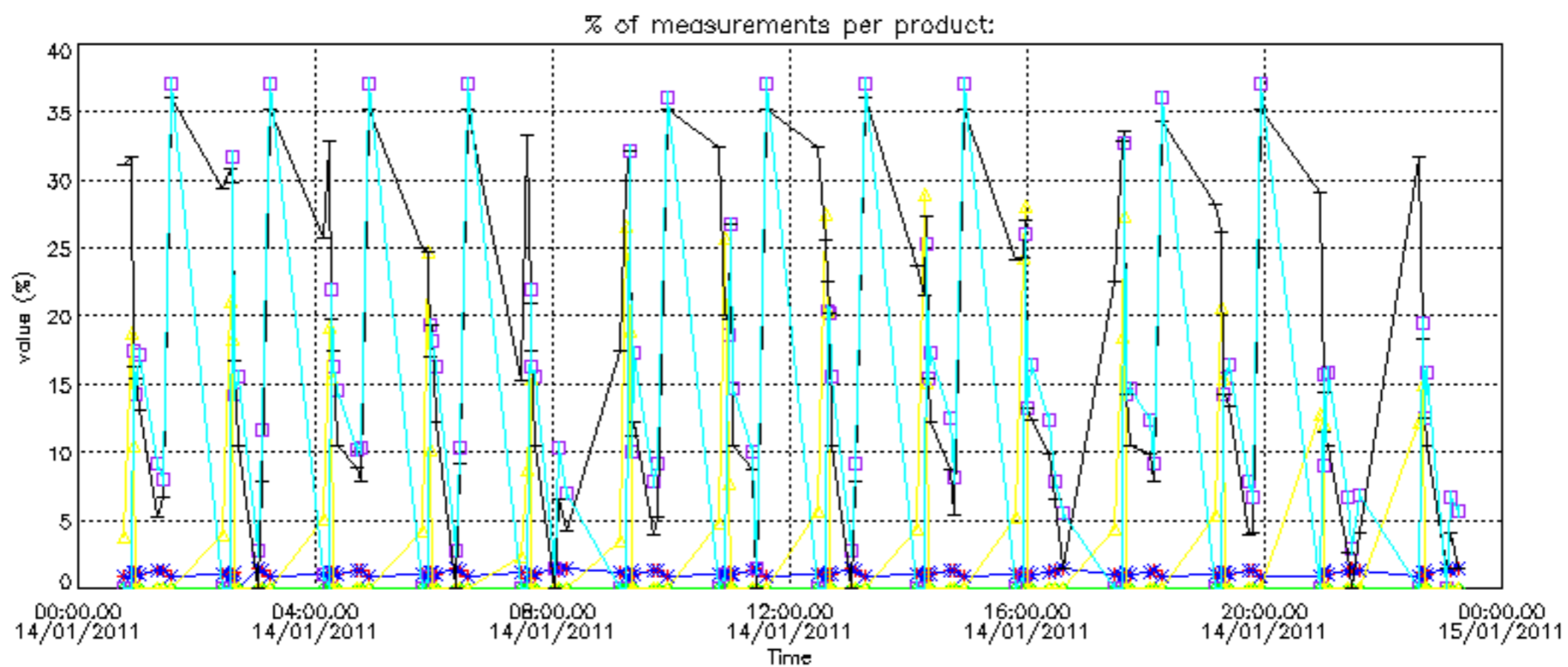
Percentage of flagged data per NO2 profile



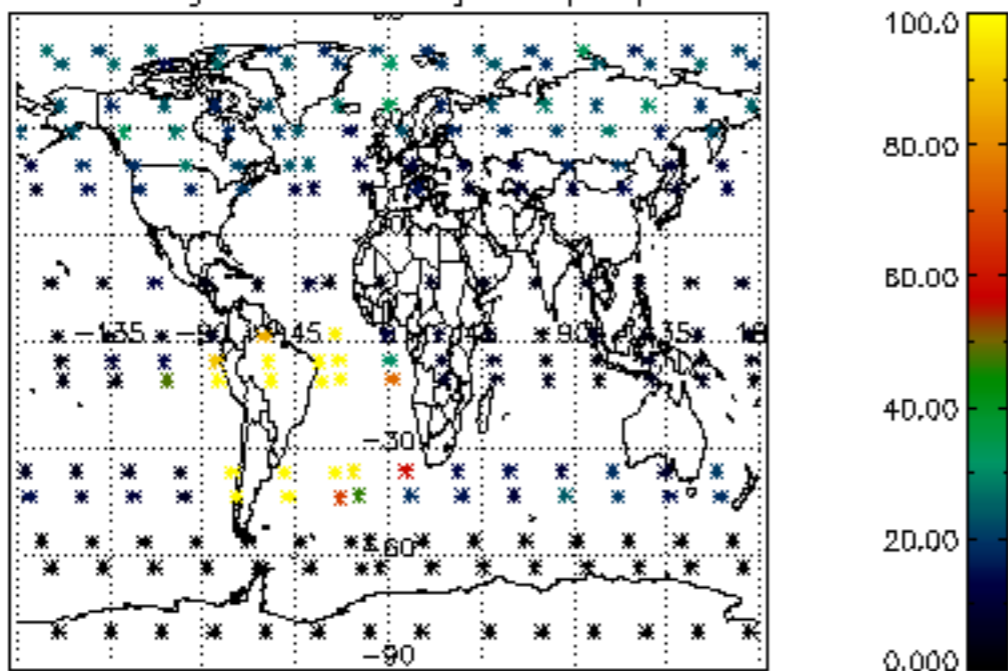
Percentage of flagged data per NO3 profile



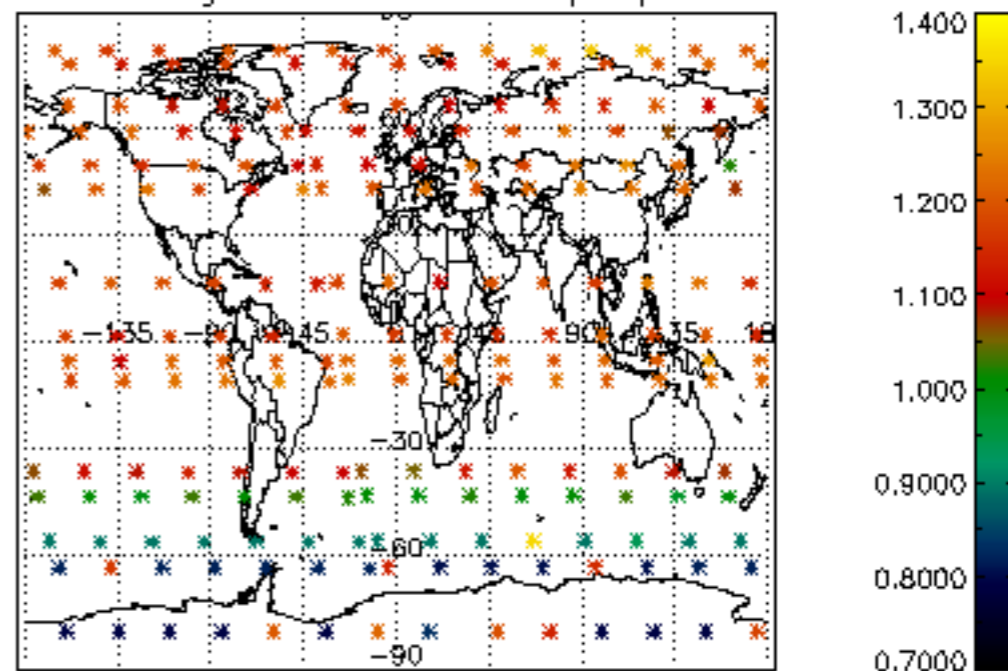




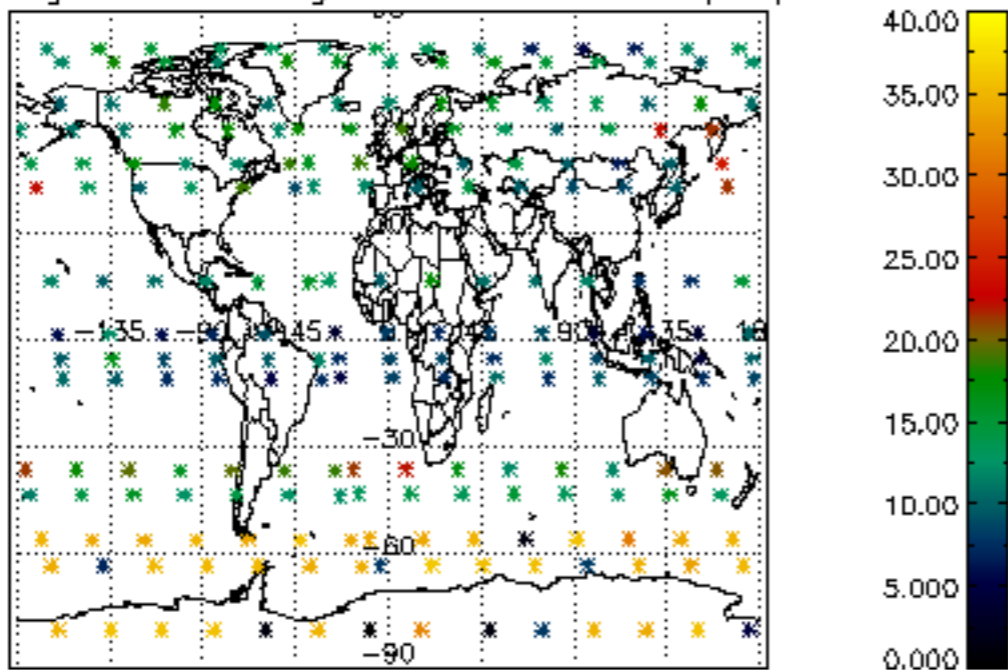
Percentage of cosmic ray hits per profile



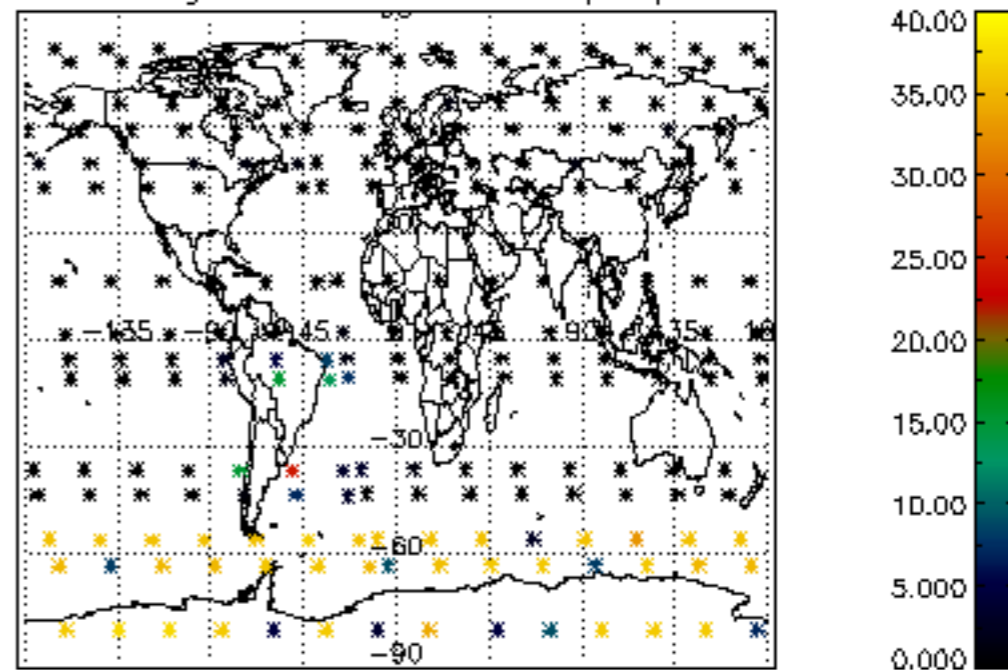
Percentage of datation errors per profile



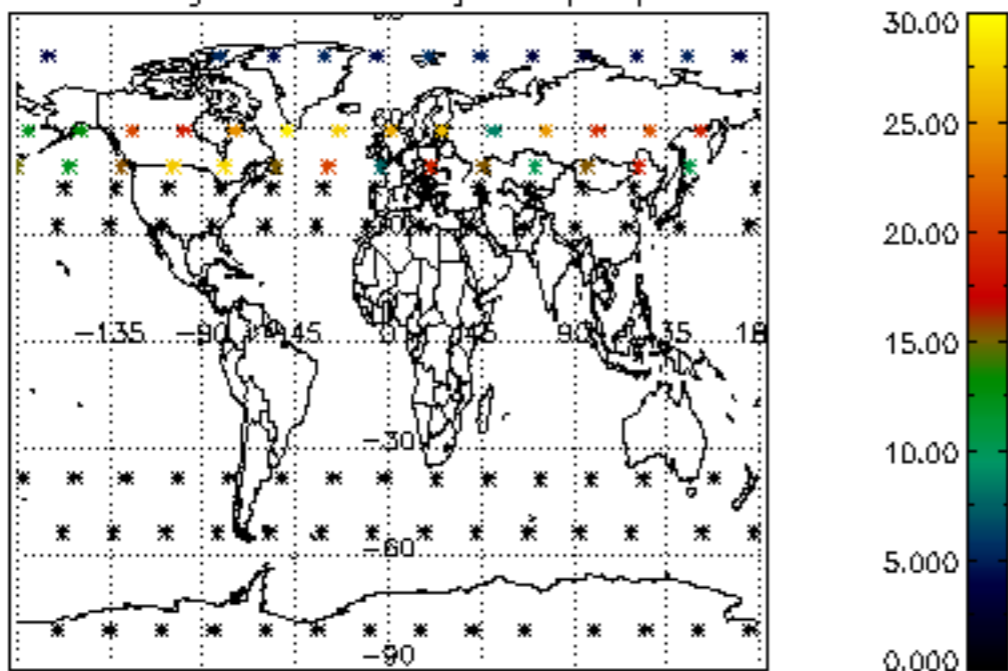
Percentage of star falling outside central band per profile



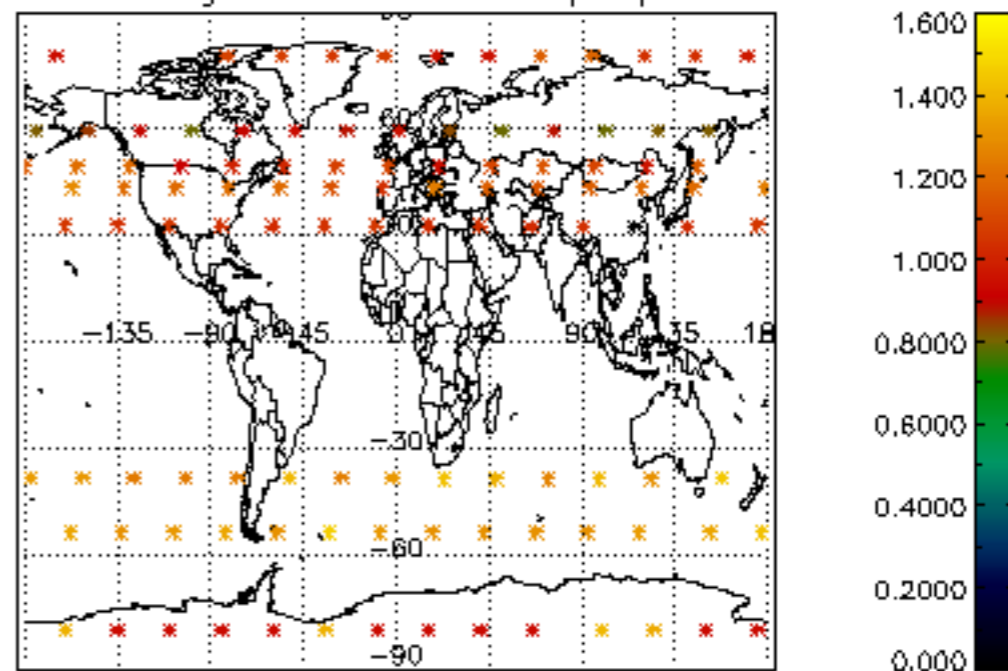
Percentage of saturation errors per profile



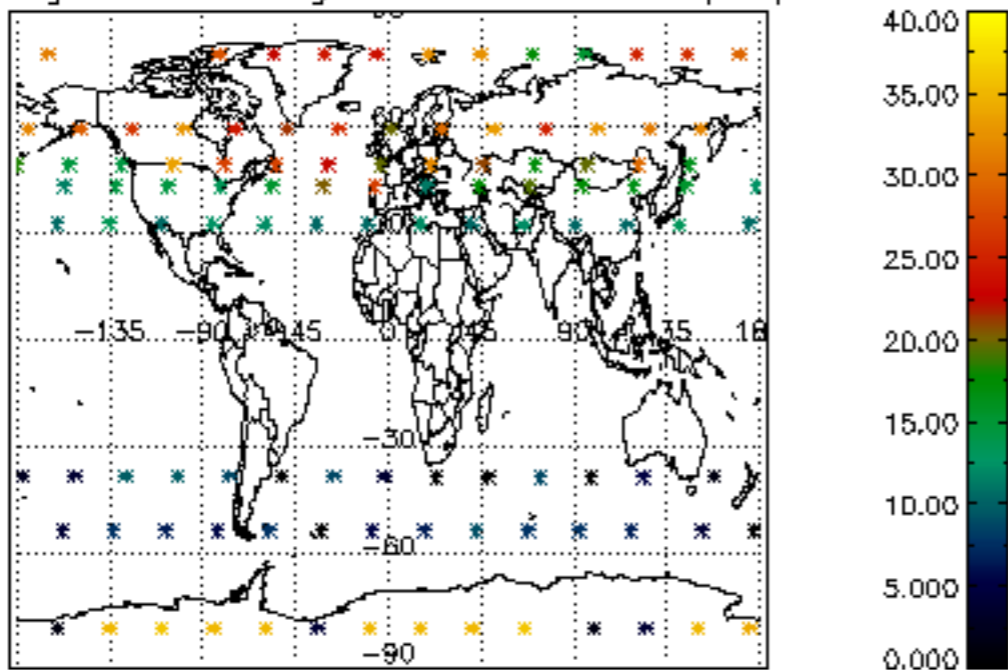
Percentage of cosmic ray hits per profile



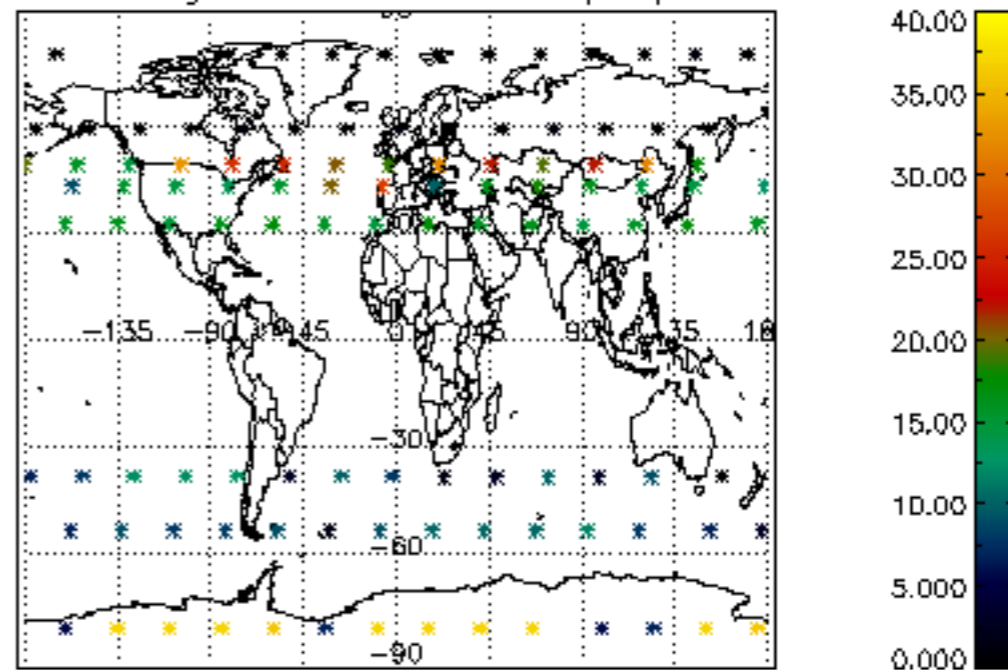
Percentage of datation errors per profile

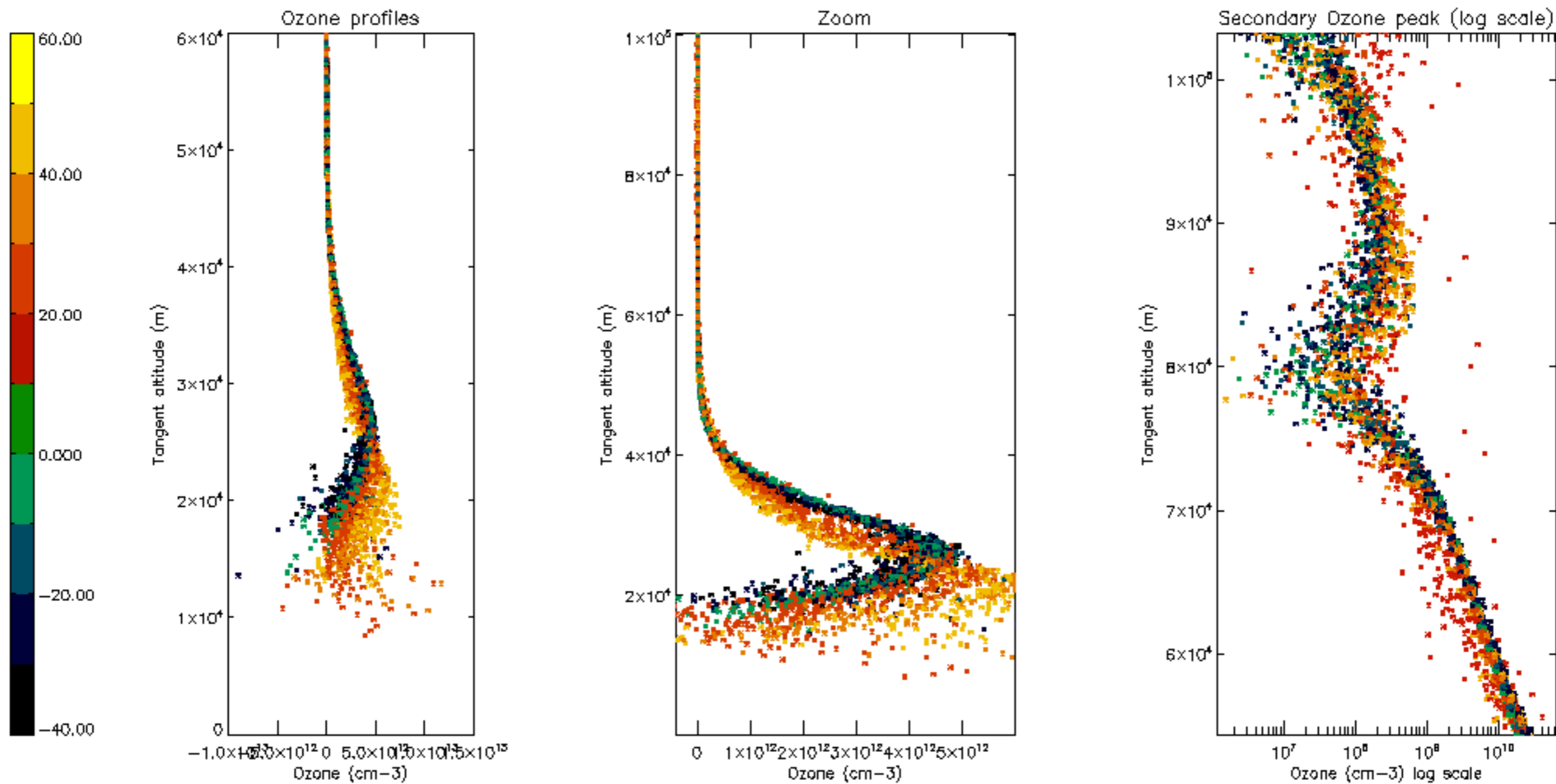


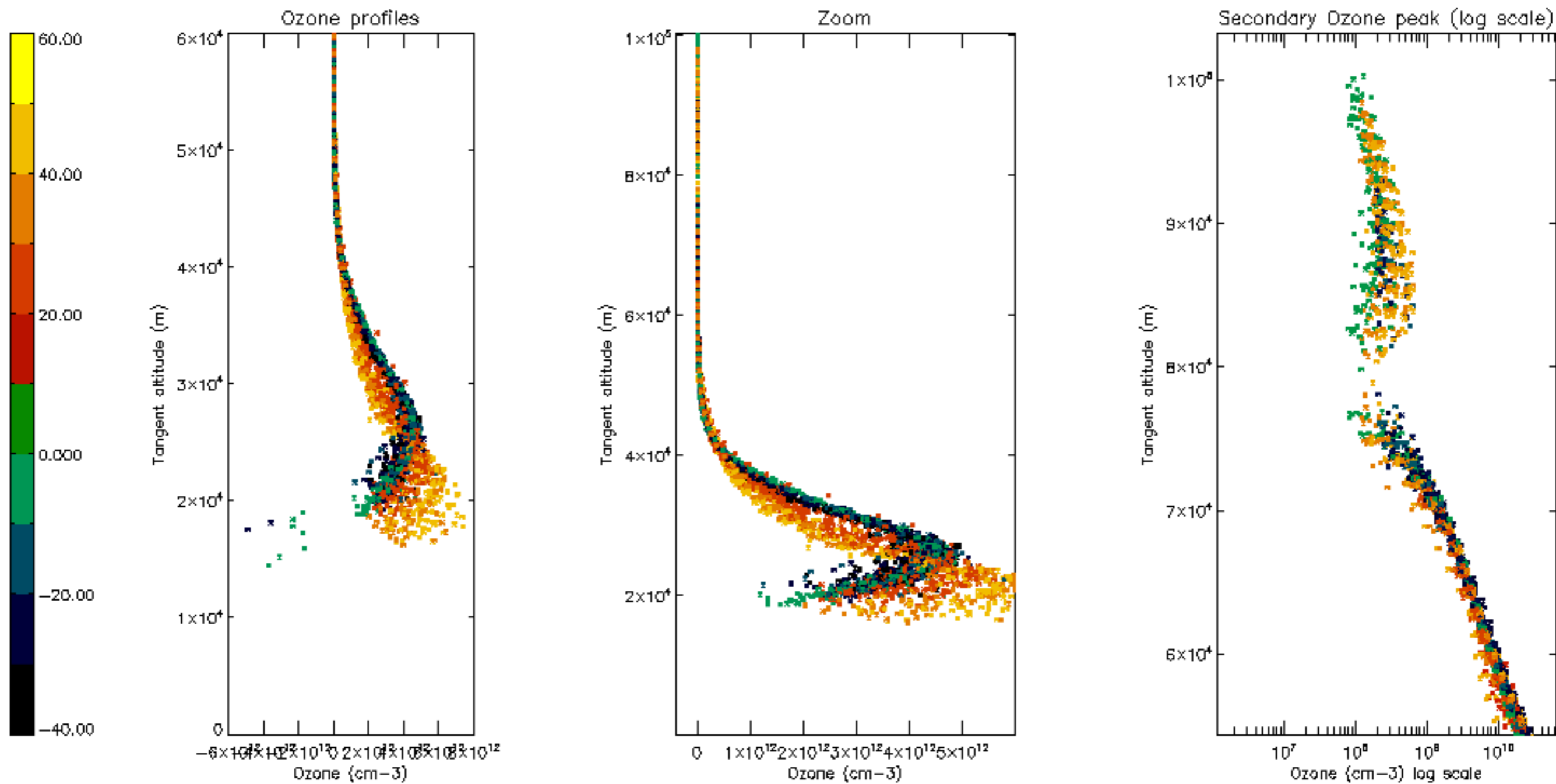
Percentage of star falling outside central band per profile

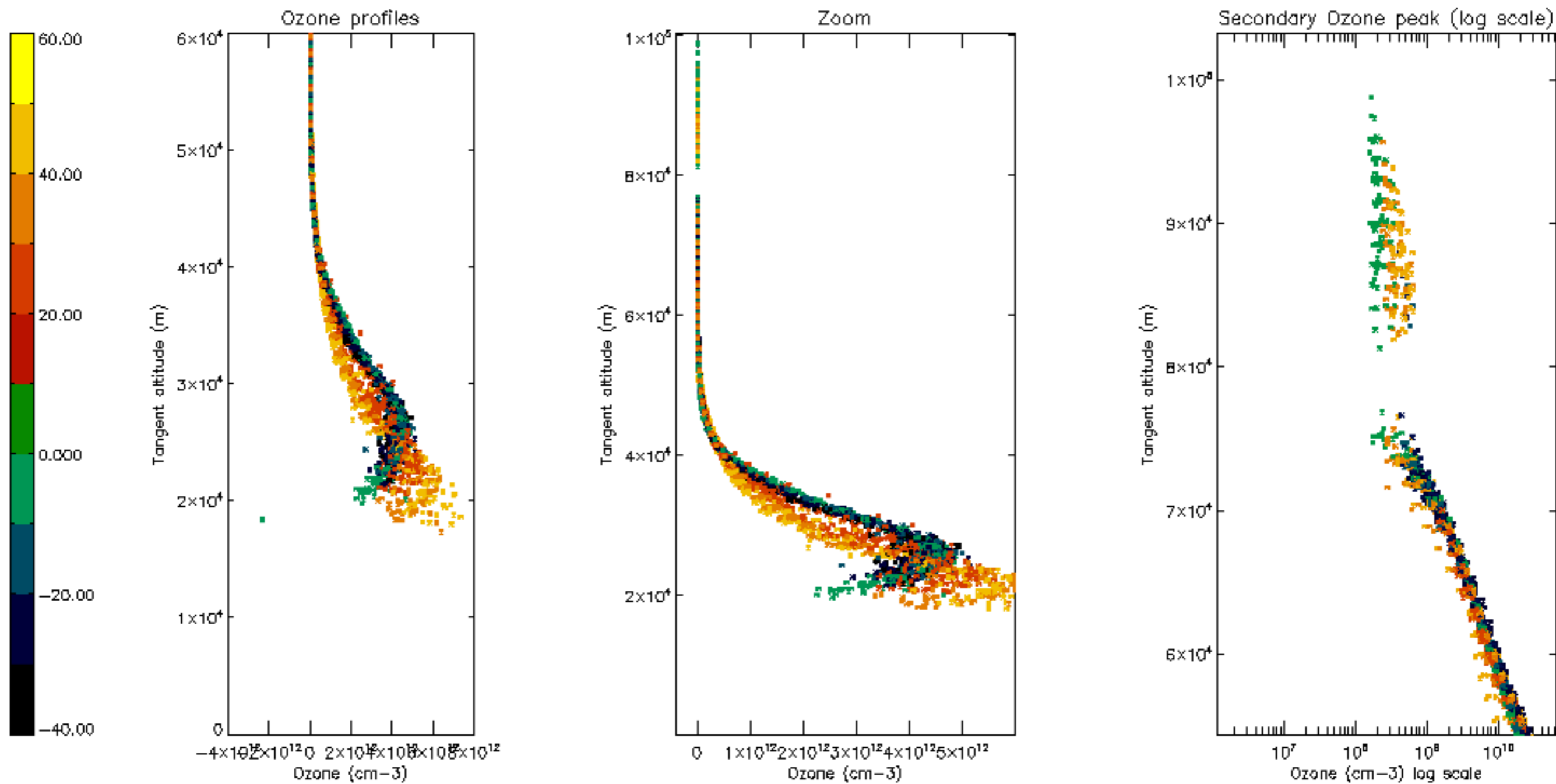


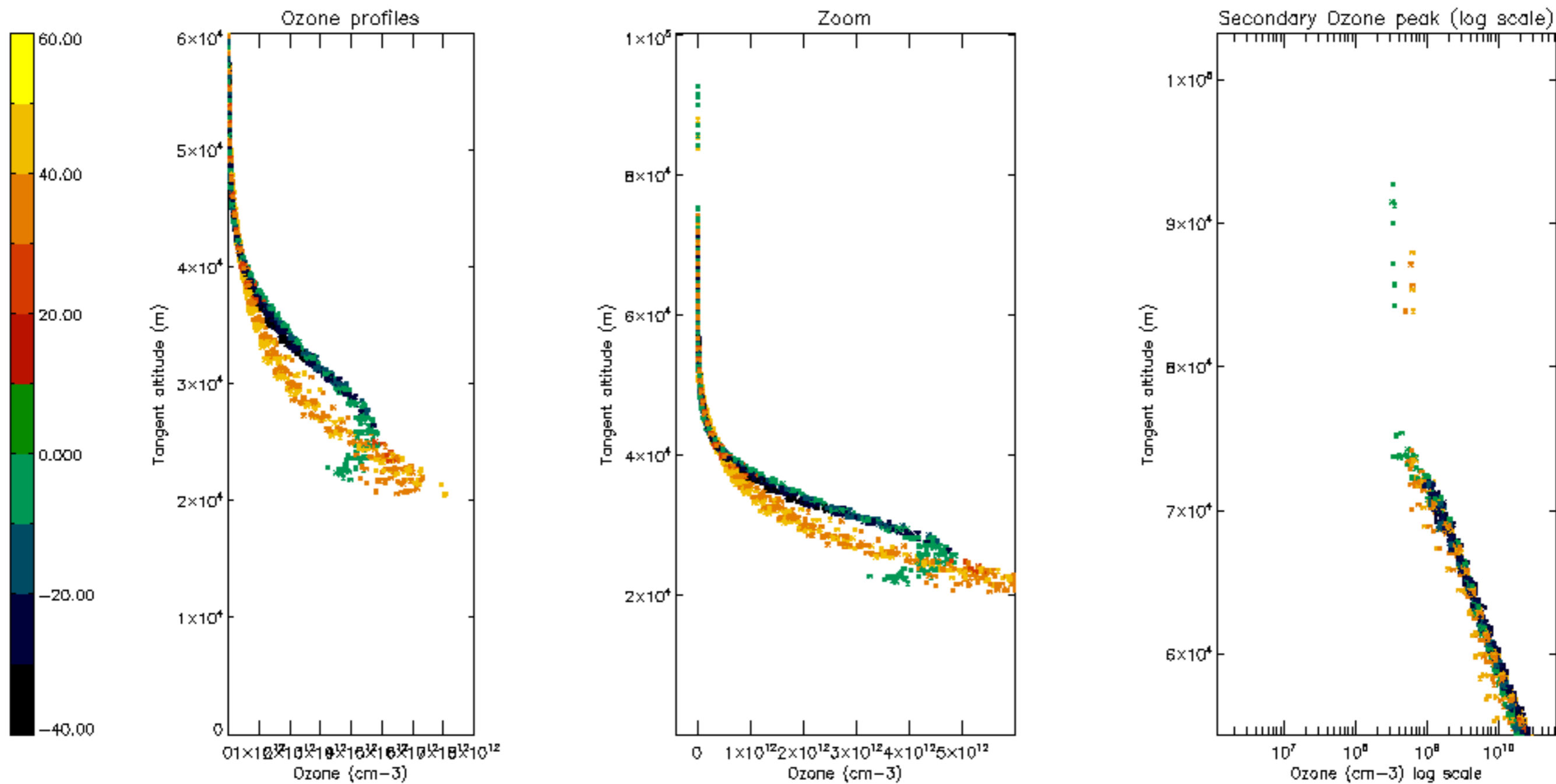
Percentage of saturation errors per profile

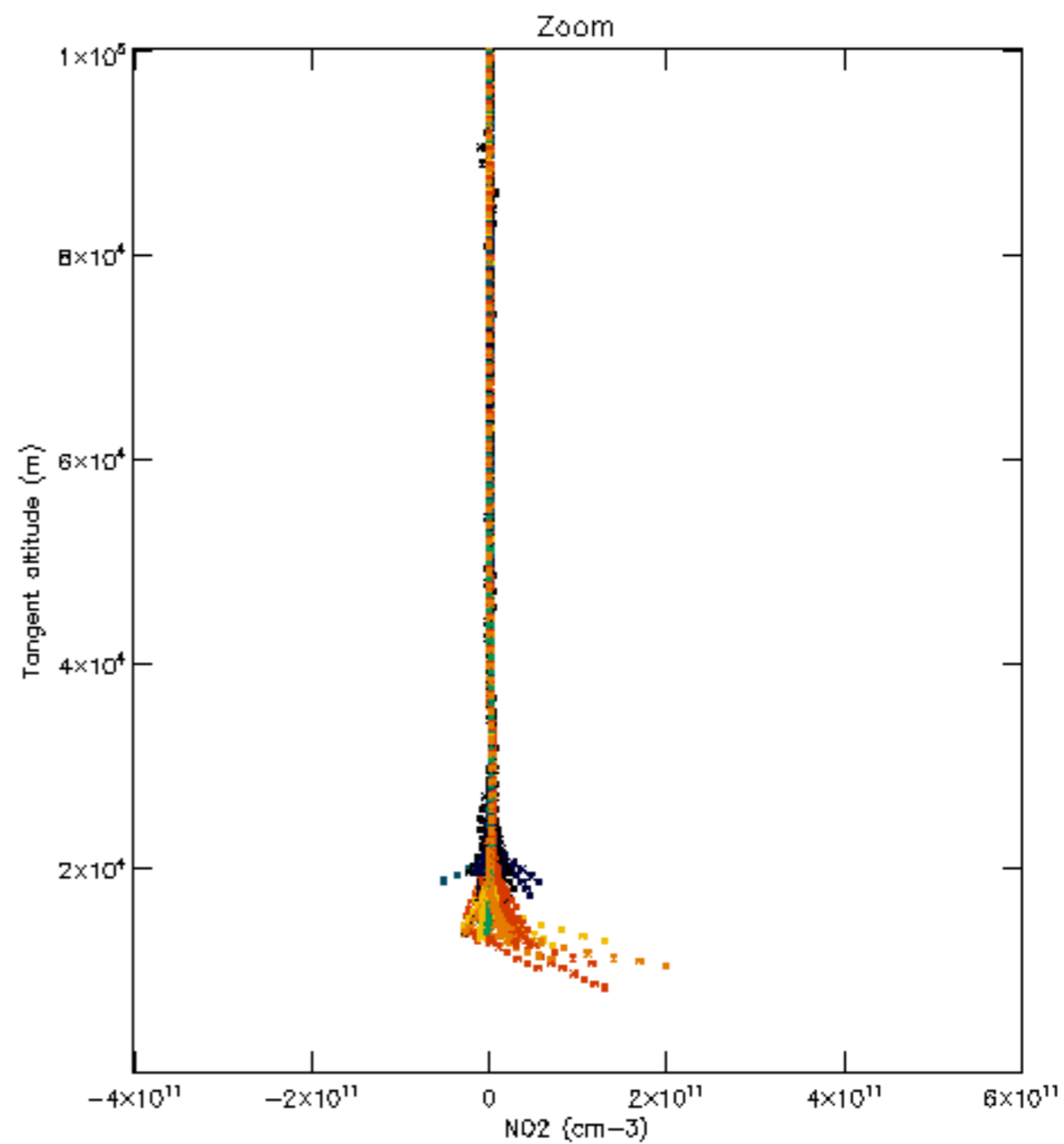
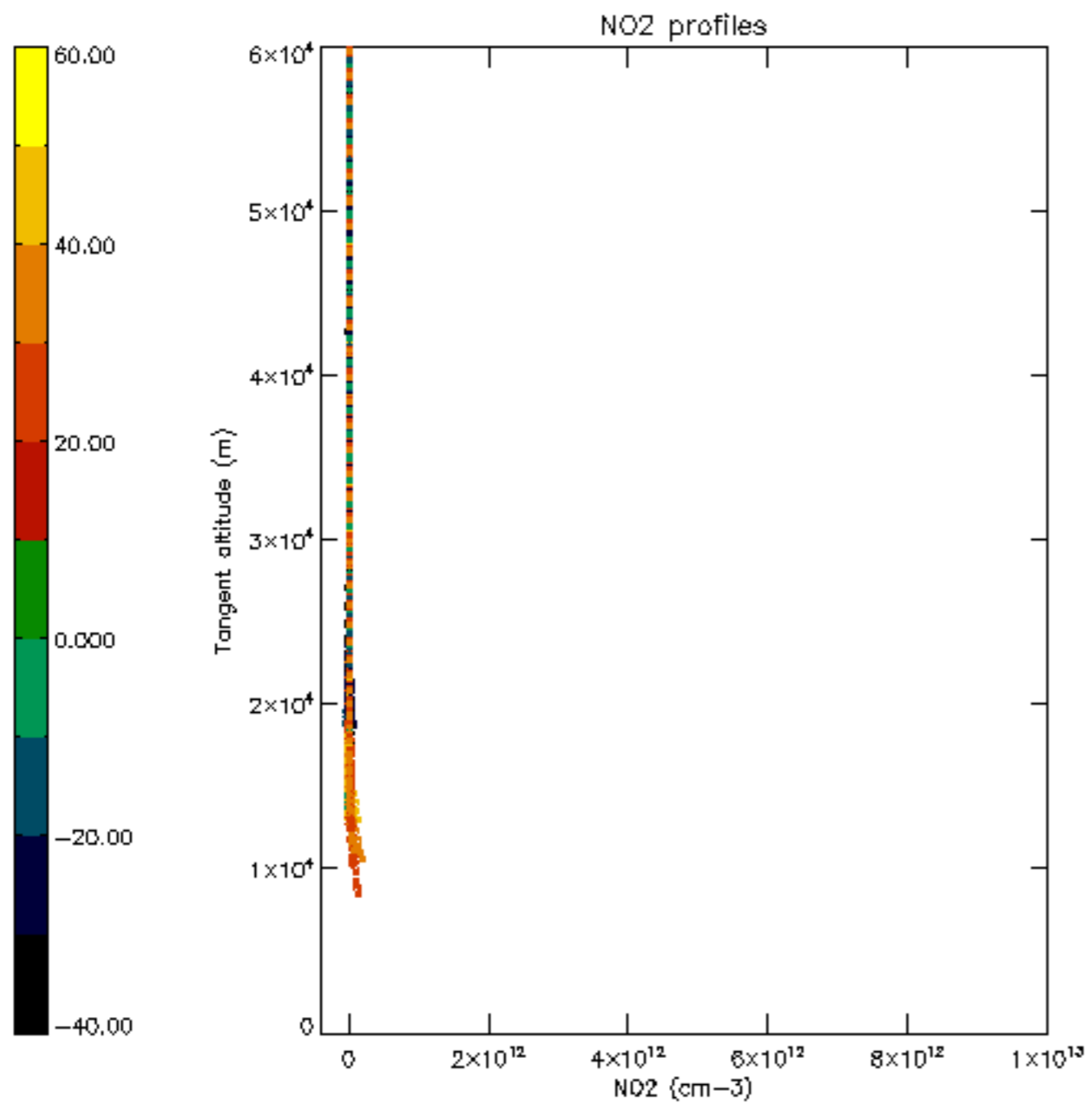


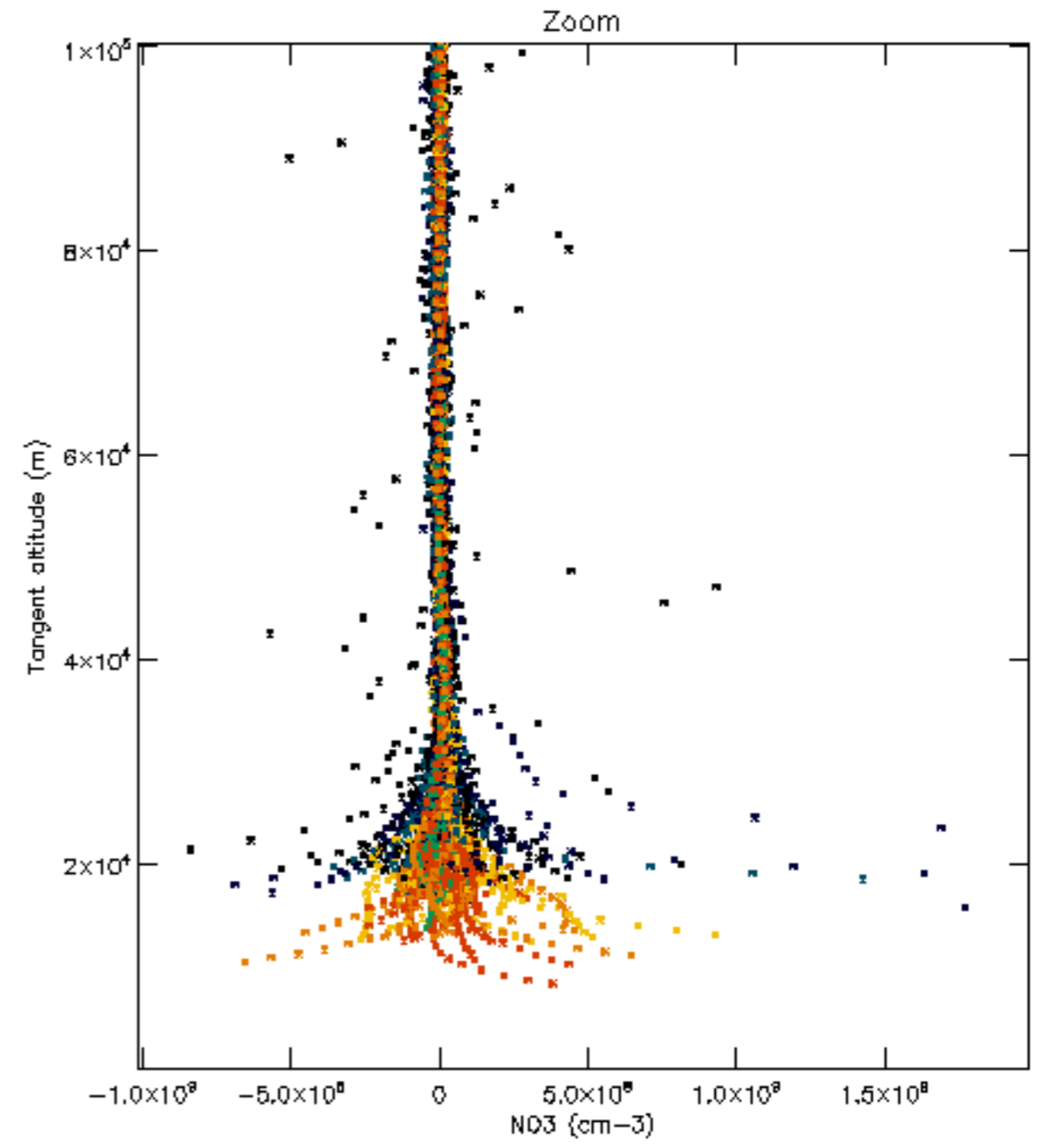
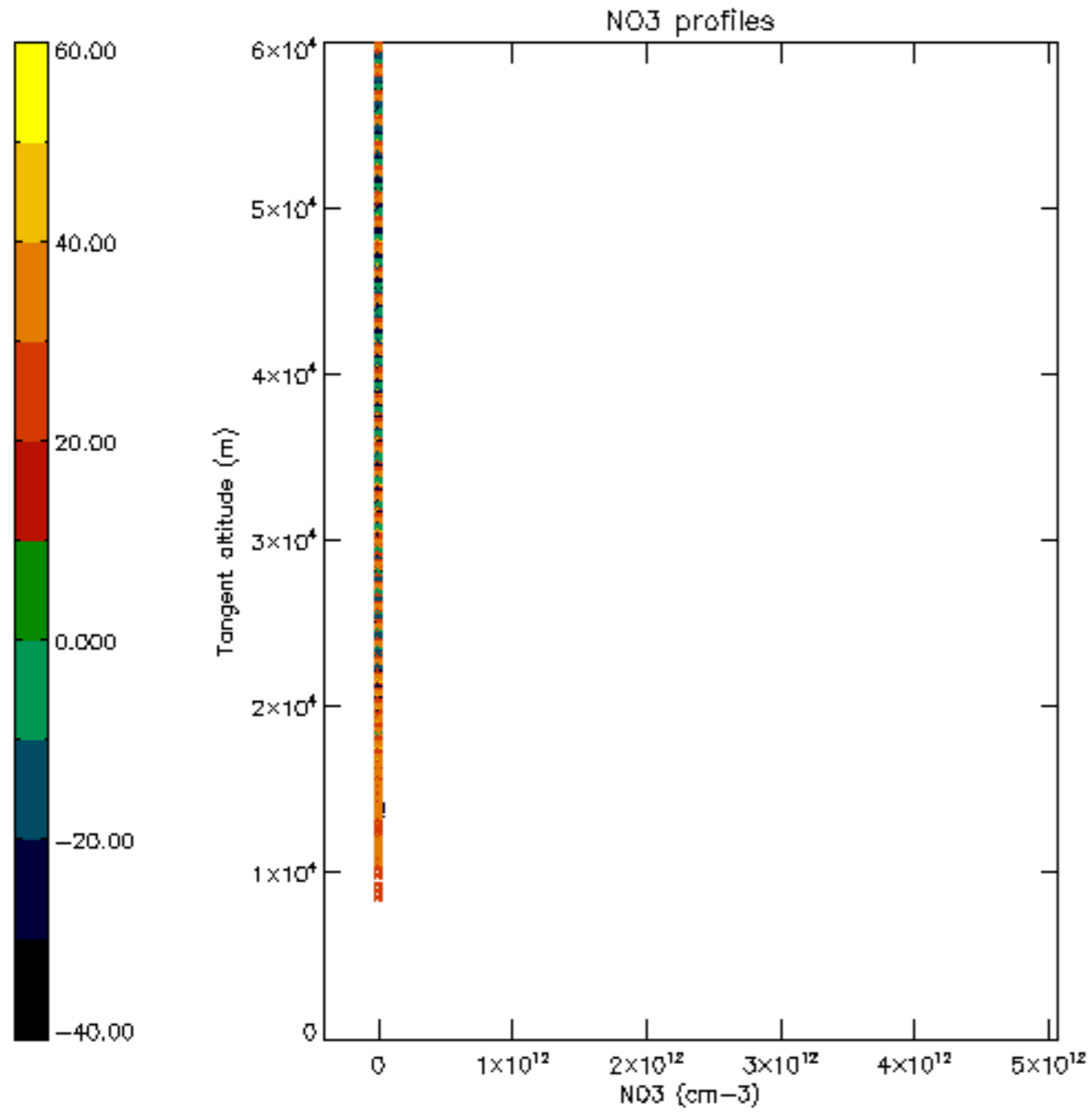


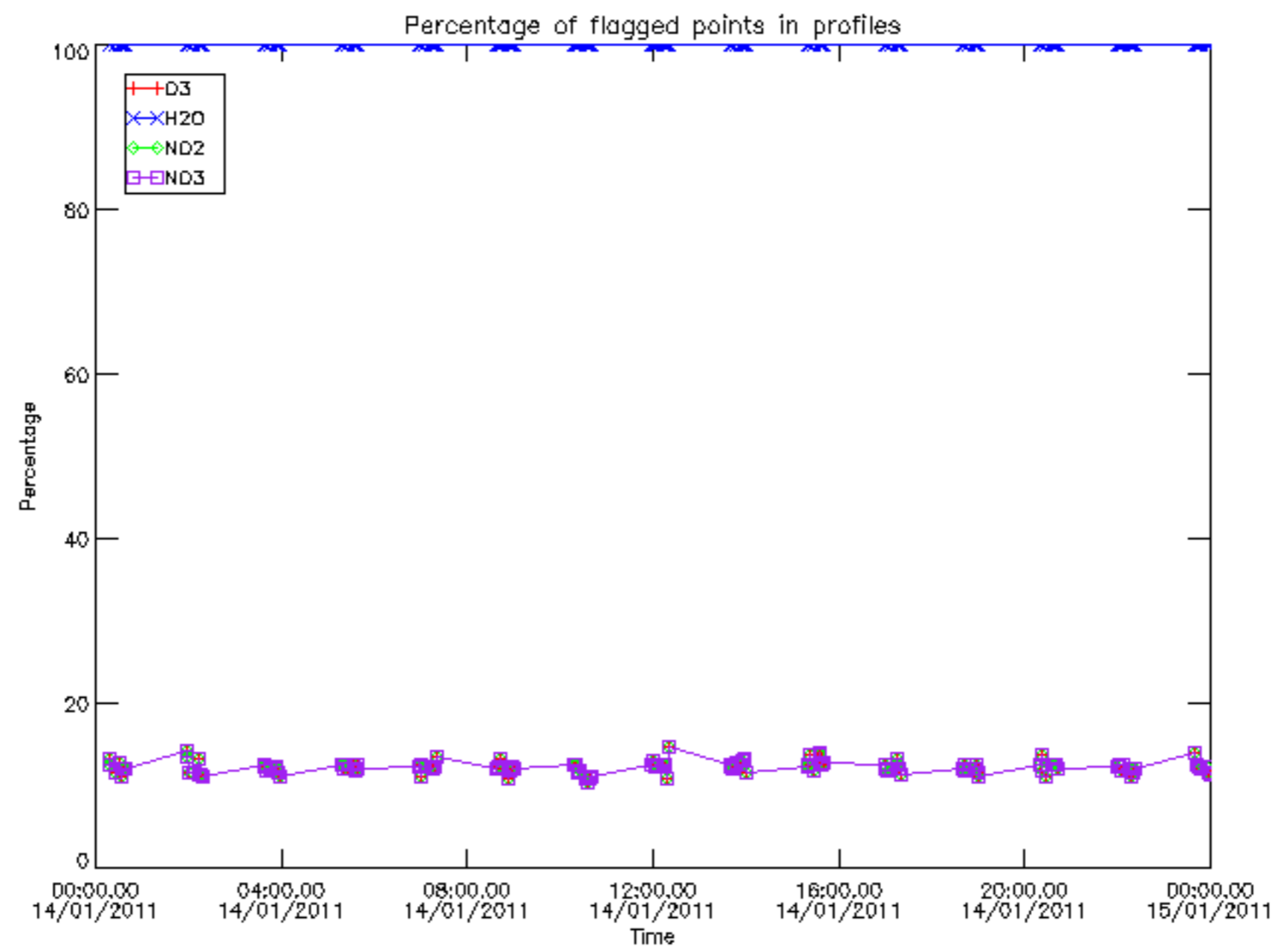




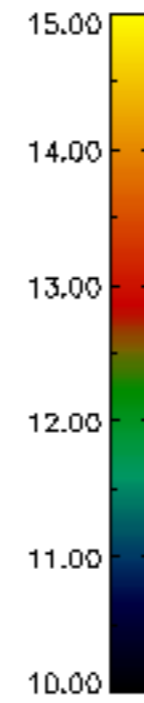
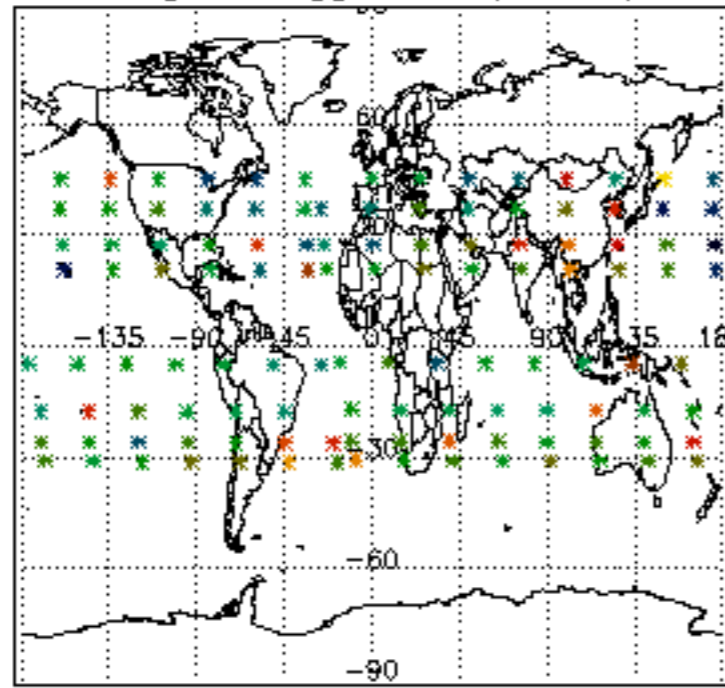




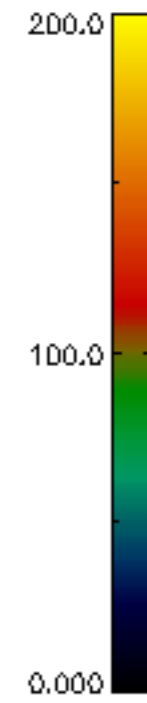
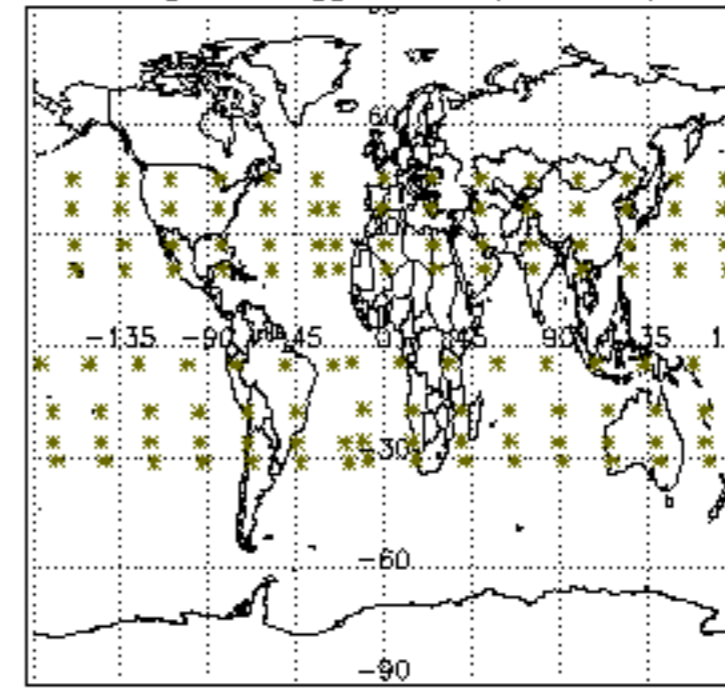




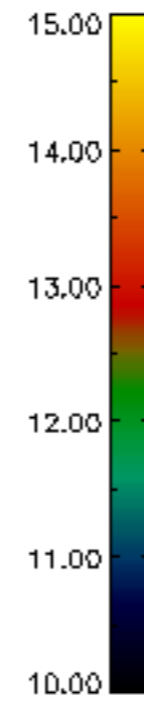
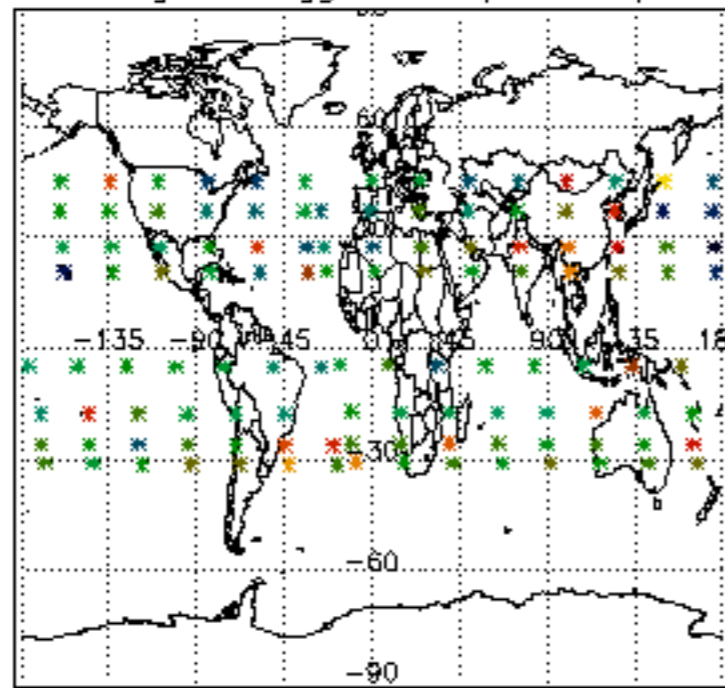
Percentage of flagged data per D3 profile



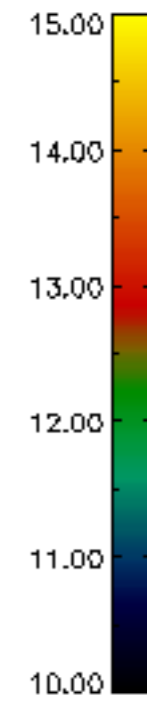
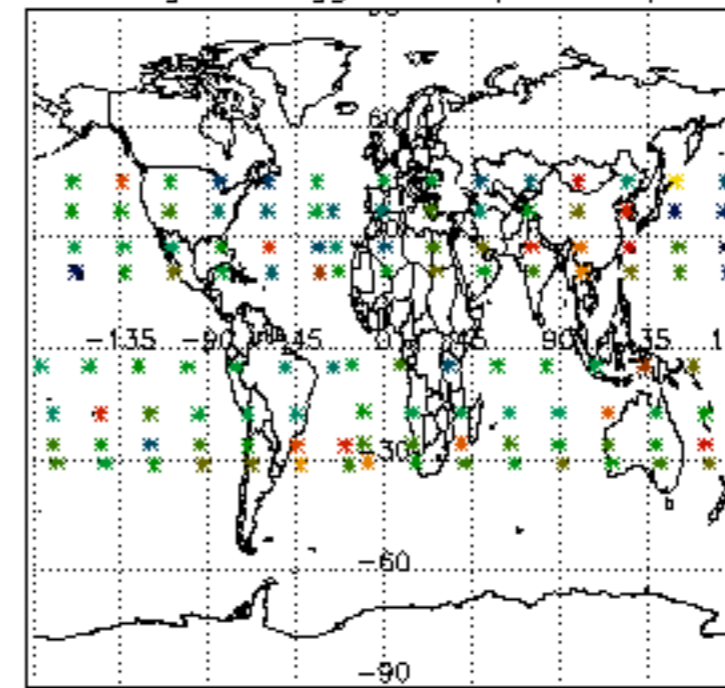
Percentage of flagged data per H2O profile

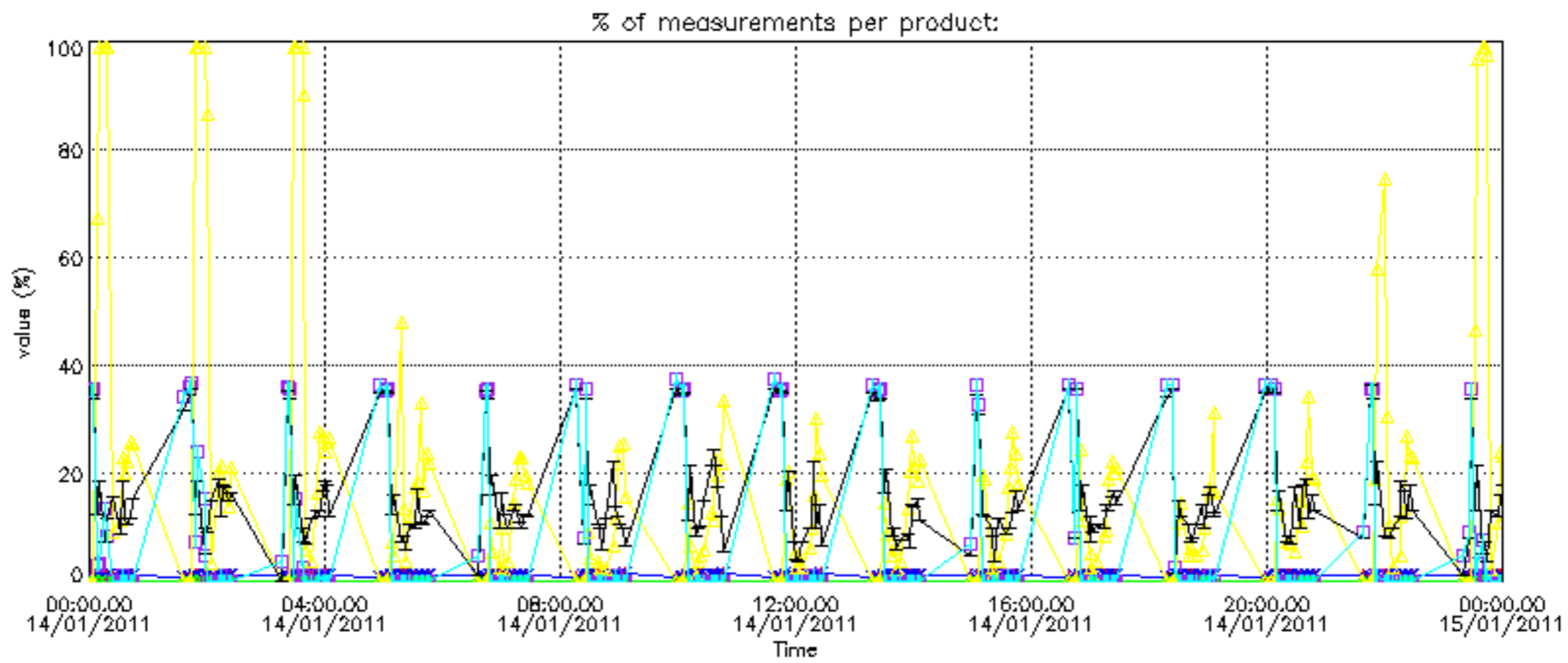


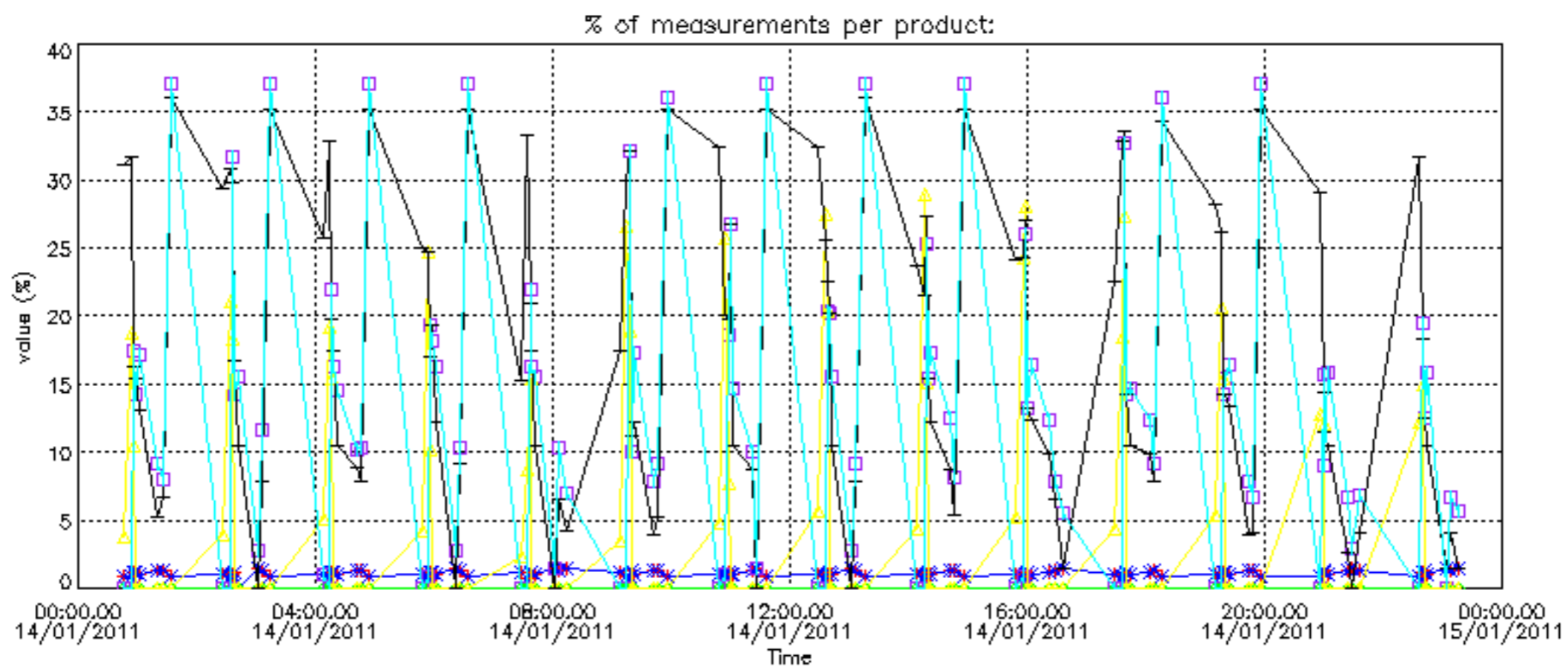
Percentage of flagged data per NO2 profile



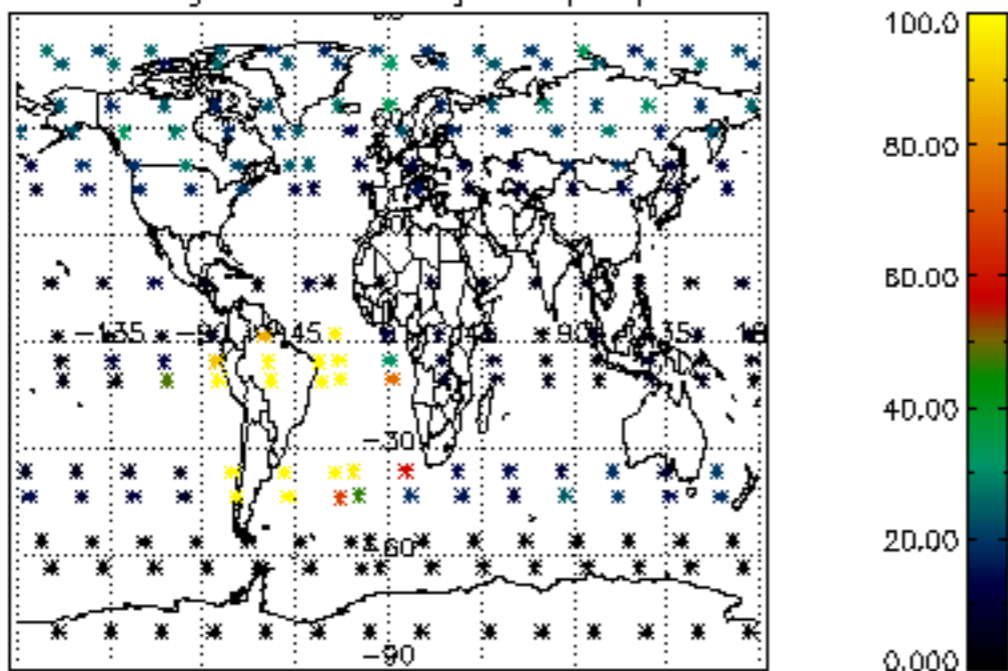
Percentage of flagged data per NO3 profile



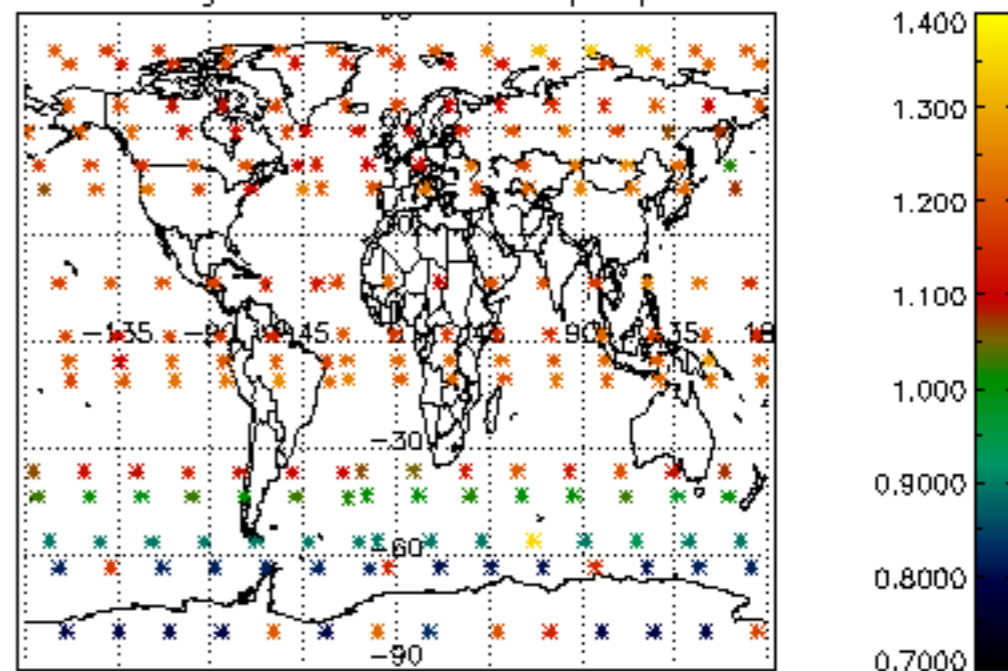




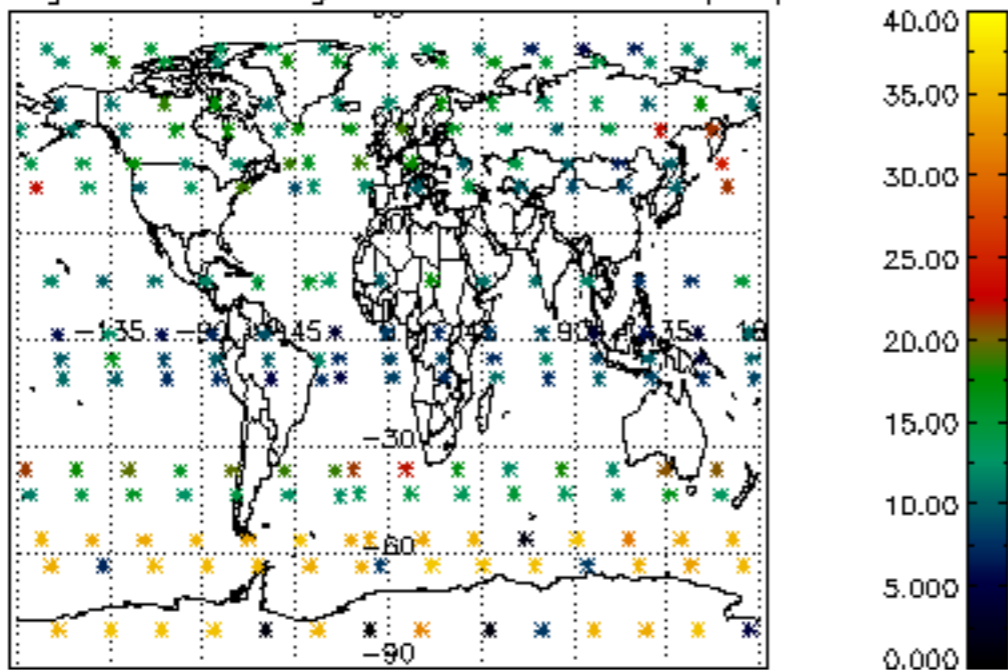
Percentage of cosmic ray hits per profile



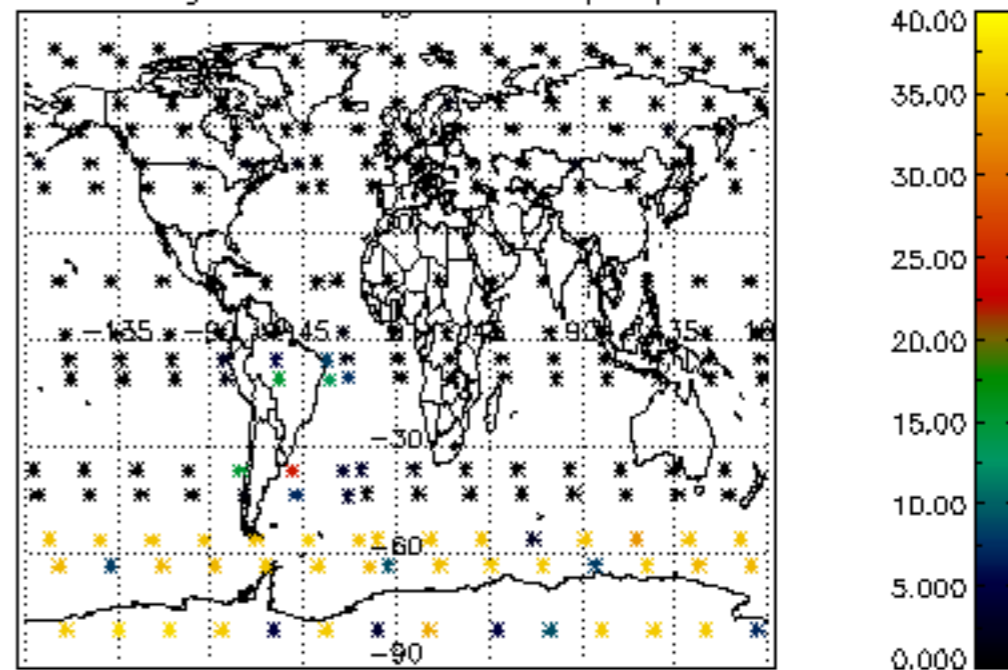
Percentage of datation errors per profile



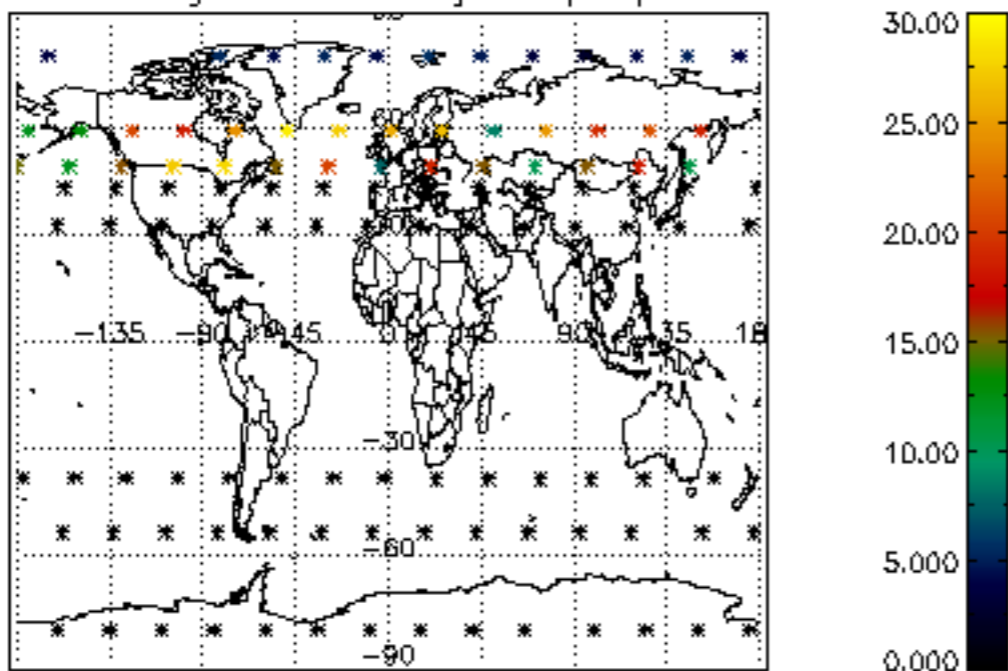
Percentage of star falling outside central band per profile



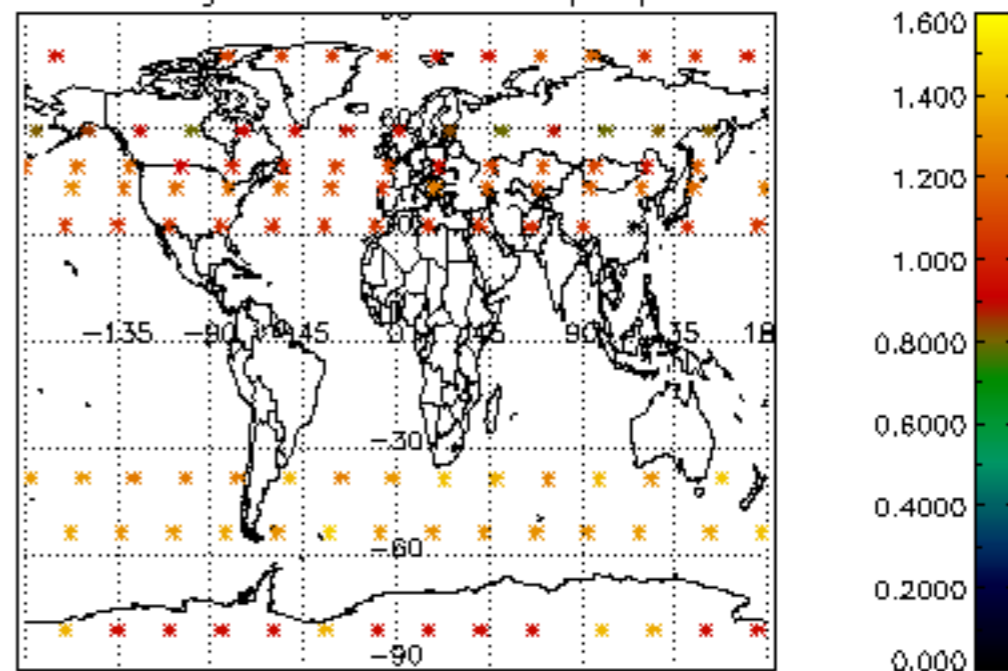
Percentage of saturation errors per profile



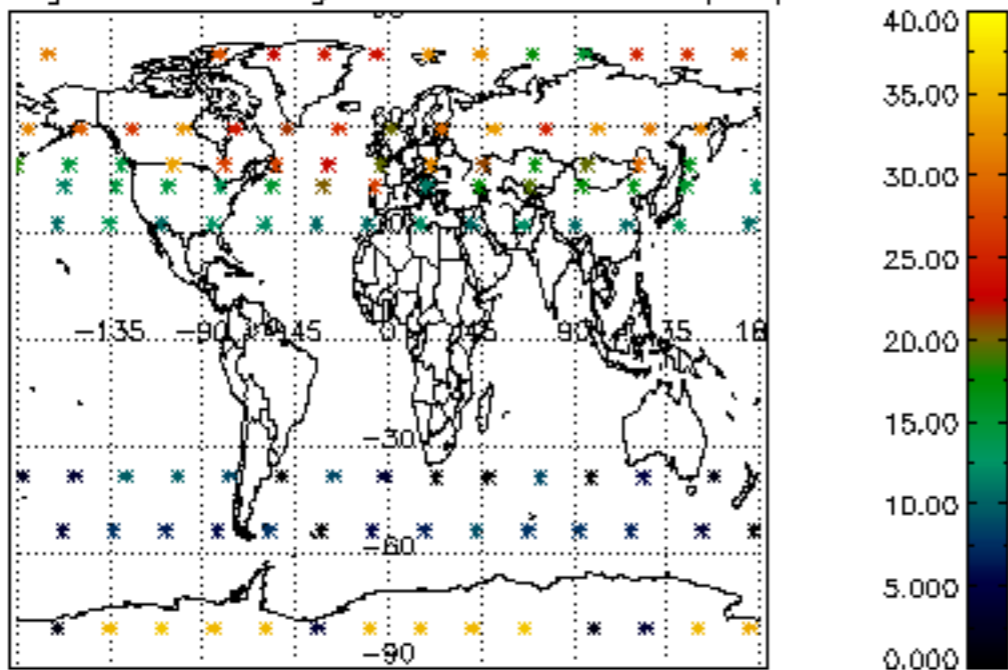
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

