

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

[3. Level 2 Quality information per product](#)

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

[4.1 Plot of level 1 quality information per product \(time dependant\)](#)

[4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

[4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

[4.2 Plot of level 1 quality information per product \(world map\)](#)

[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

[4.2.2 Plot of level 1 quality information per product \(world map\): DESCENDING](#)

[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

[5.1 Ozone statistics based on quality of products](#)

[5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

[5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

[5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

[5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

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

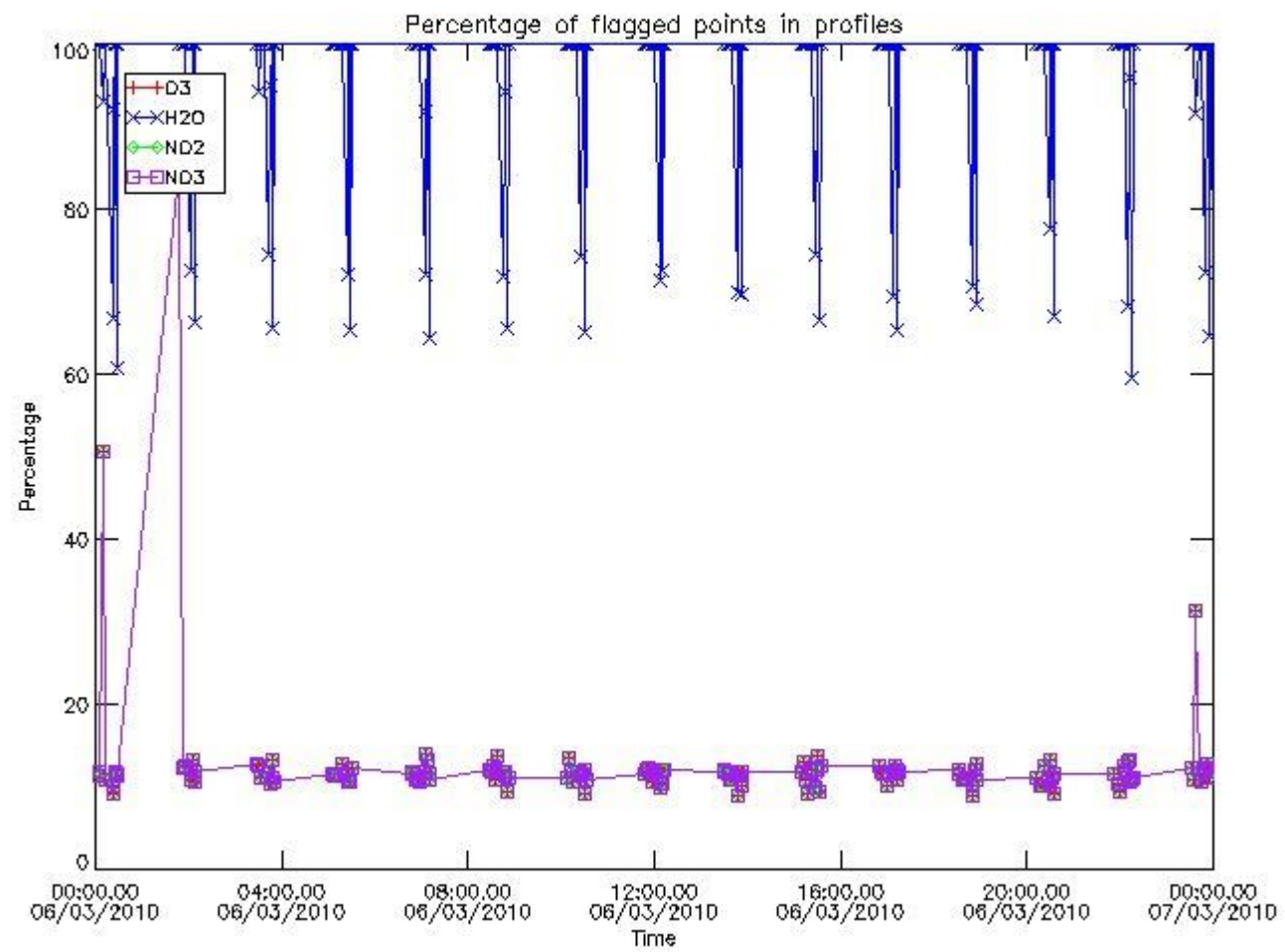
[6. Auxiliary Data Files used for the production reported in section 2](#)

338	GOM_NL__2PRFIN20100306_235711_000000442087_00274_41911_8163.N1	06-MAR-2010 23:57:11	Dark	43.500	64	Gam Cen	2.2000	10600.	87	41911	No
339	GOM_NL__2PRFIN20100306_235900_000000562087_00274_41911_8164.N1	06-MAR-2010 23:59:00	Straylight	55.500	123	lot Cen	2.7500	10200.	111	41911	No

3. Quality information per product

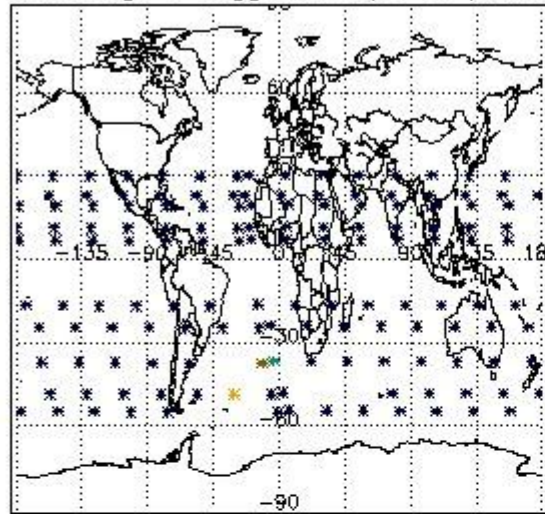
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

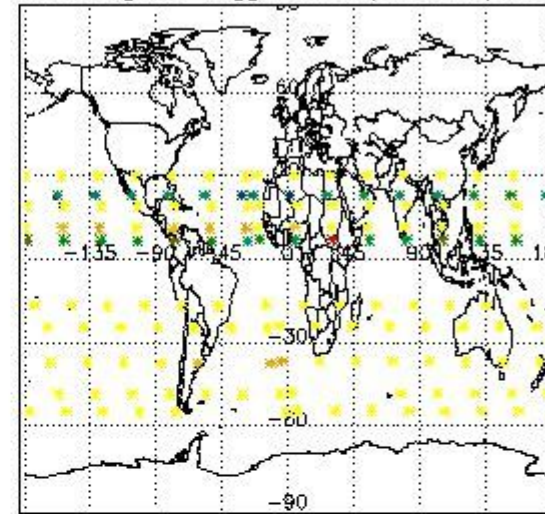


3.2 Plot quality information per product (world map)

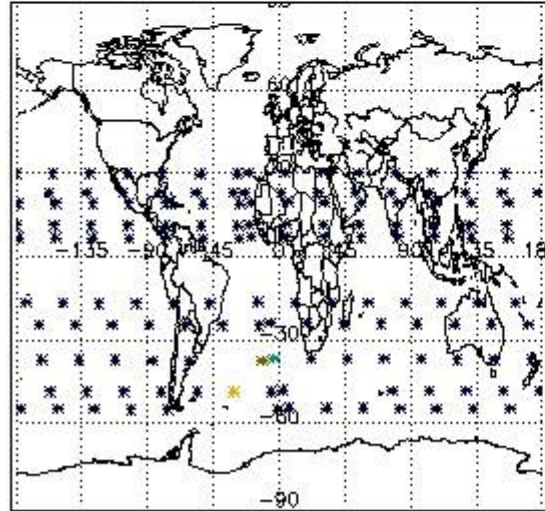
Percentage of flagged data per O3 profile



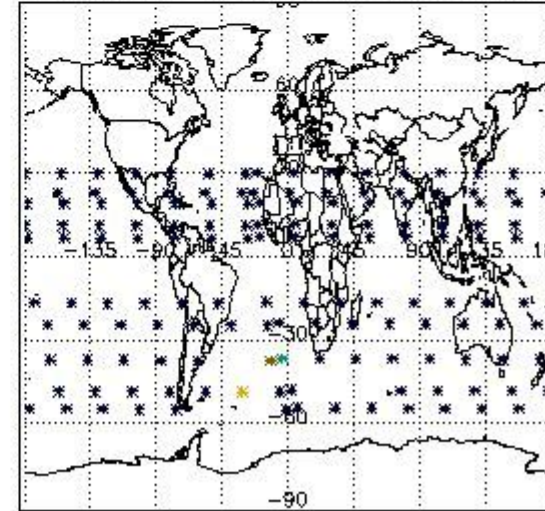
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

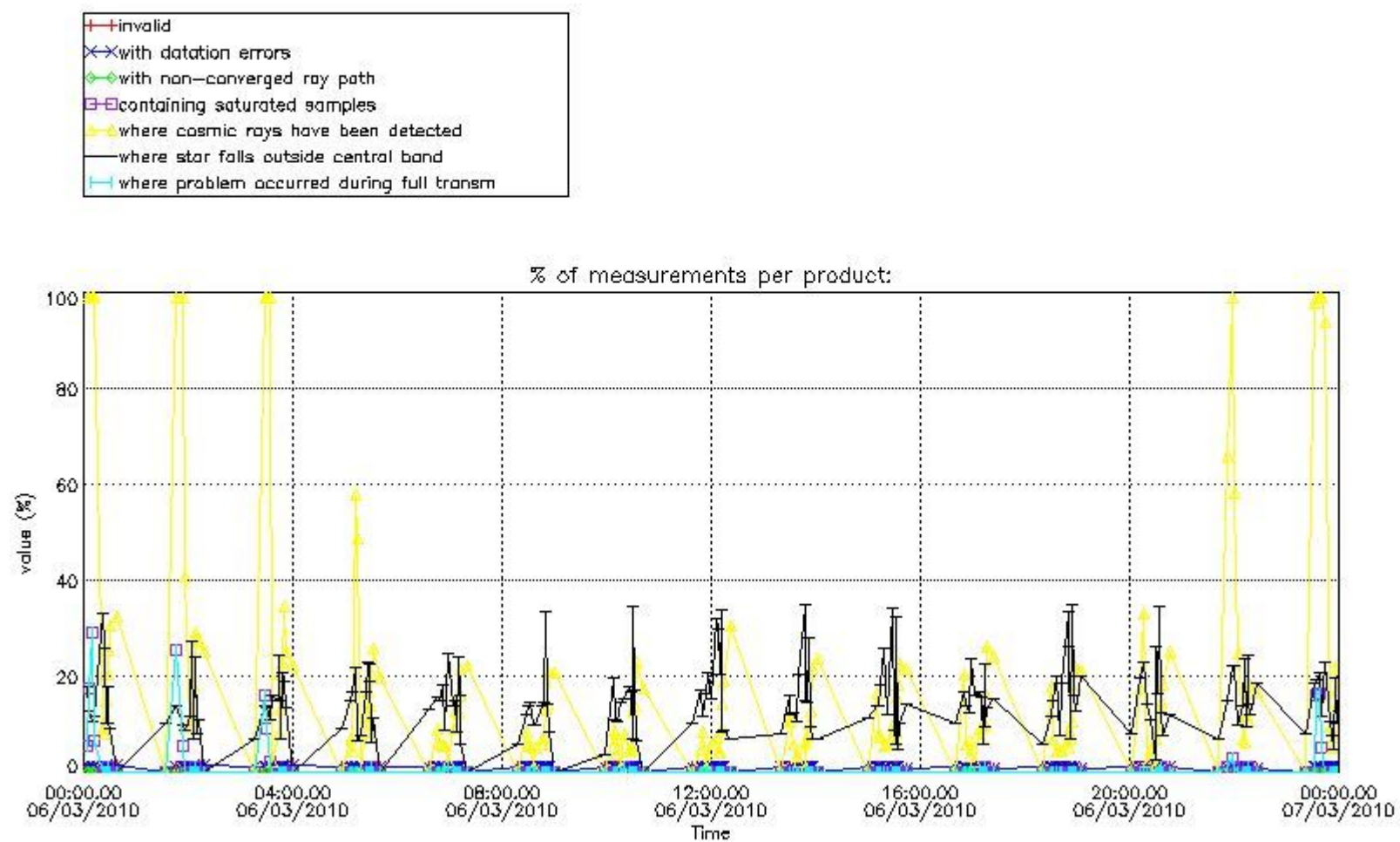


4. Level 1 quality information per product

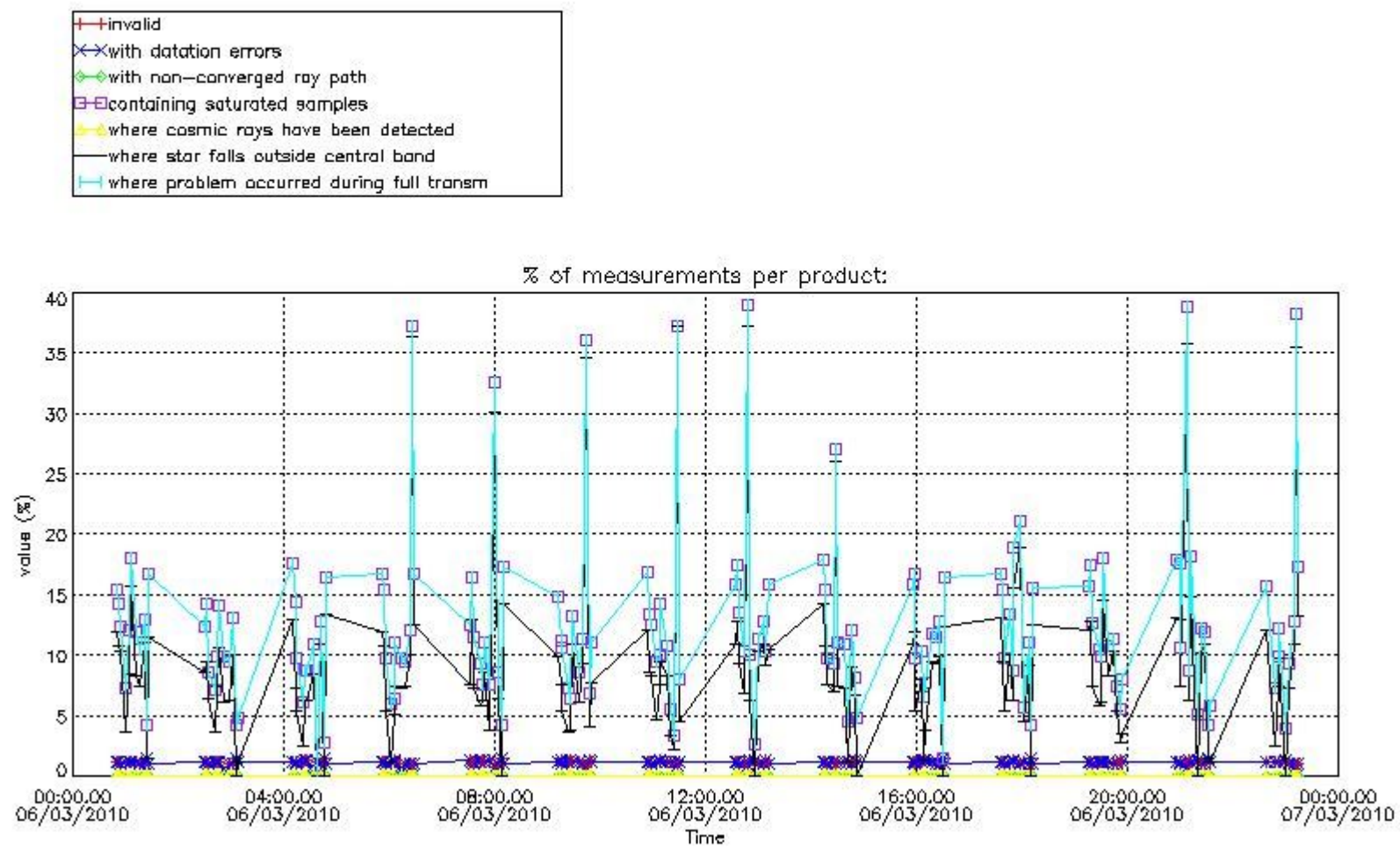
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

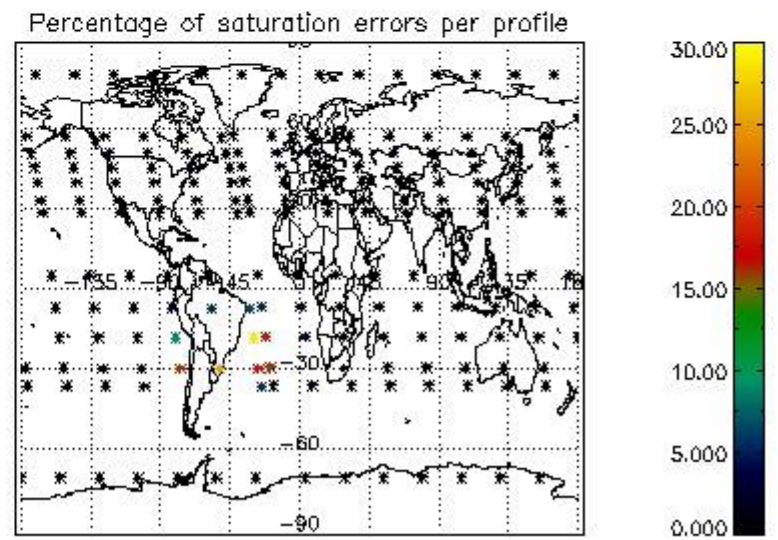
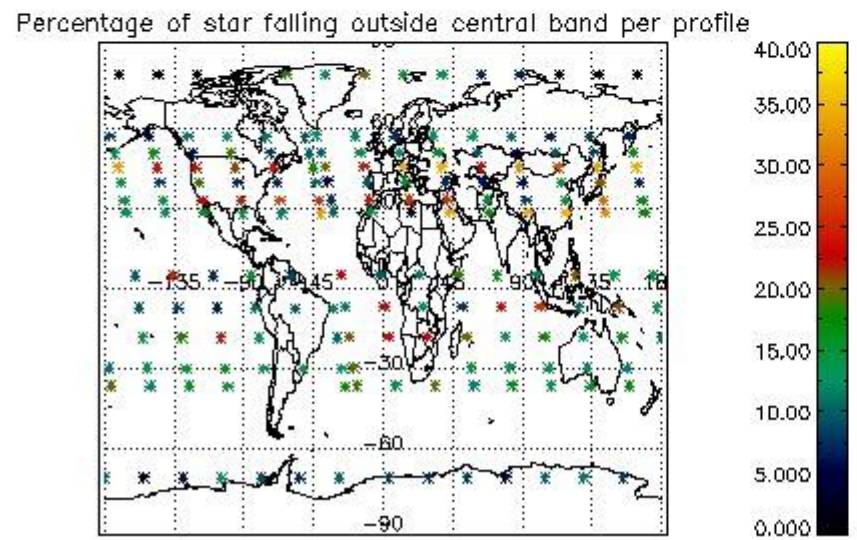
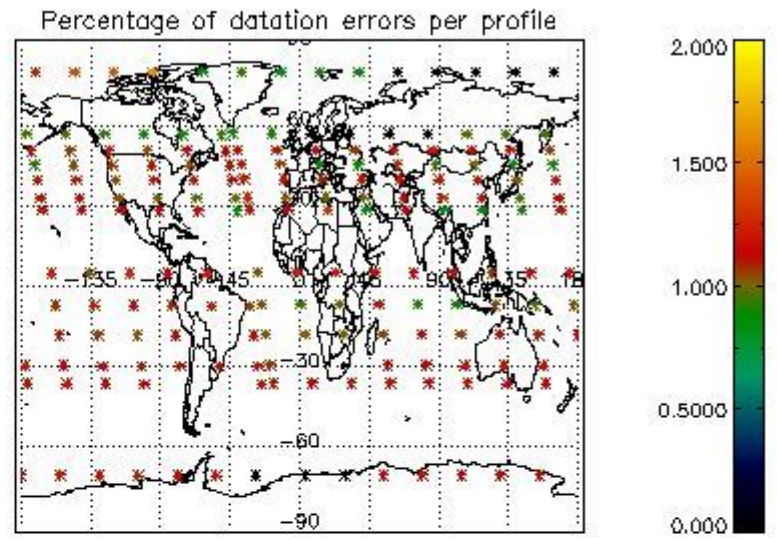
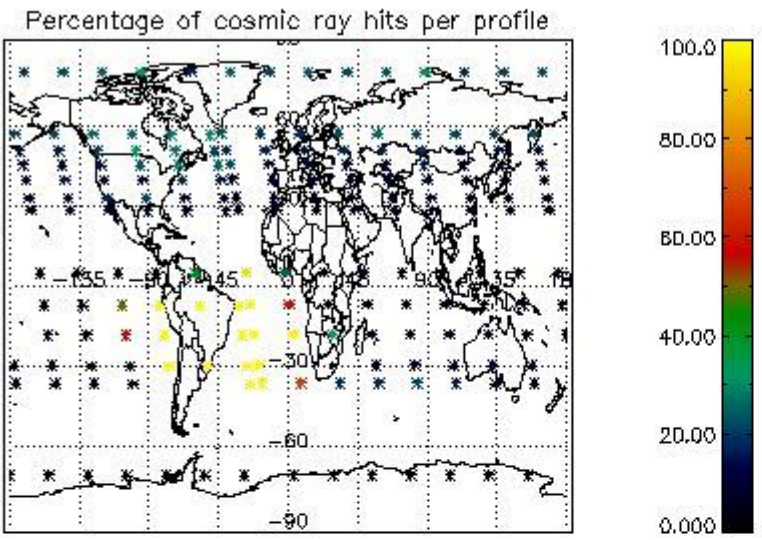


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

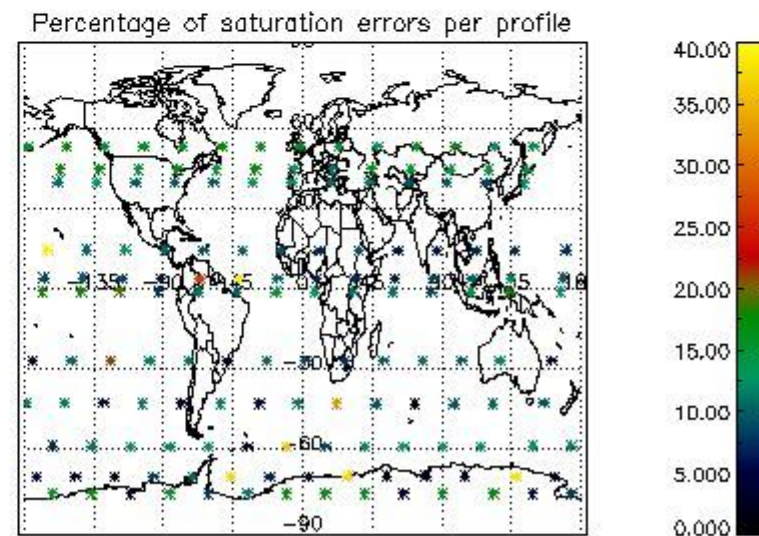
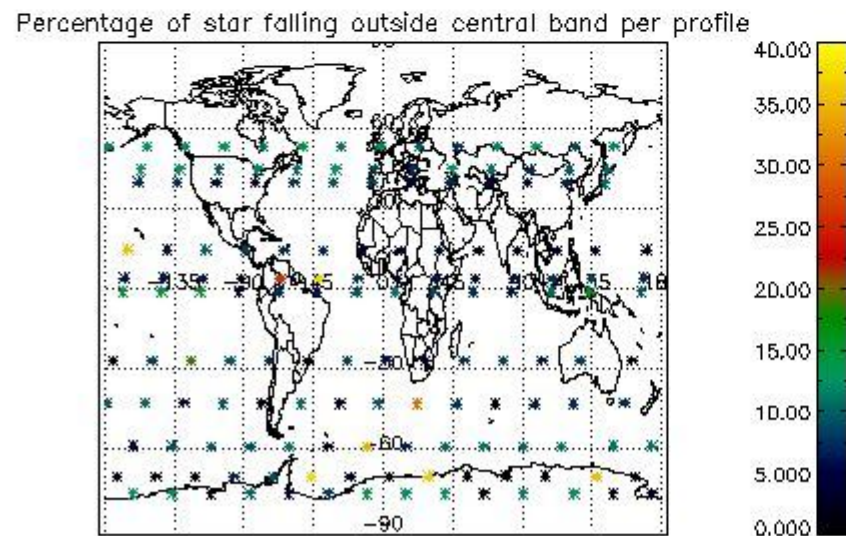
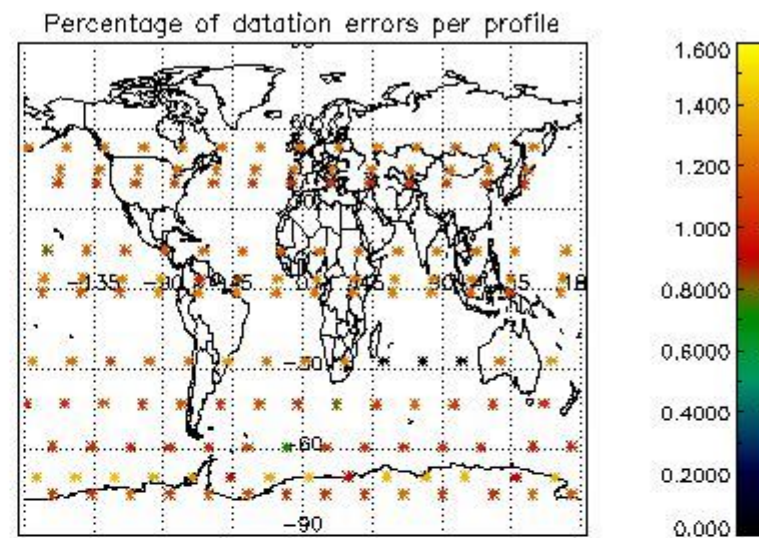
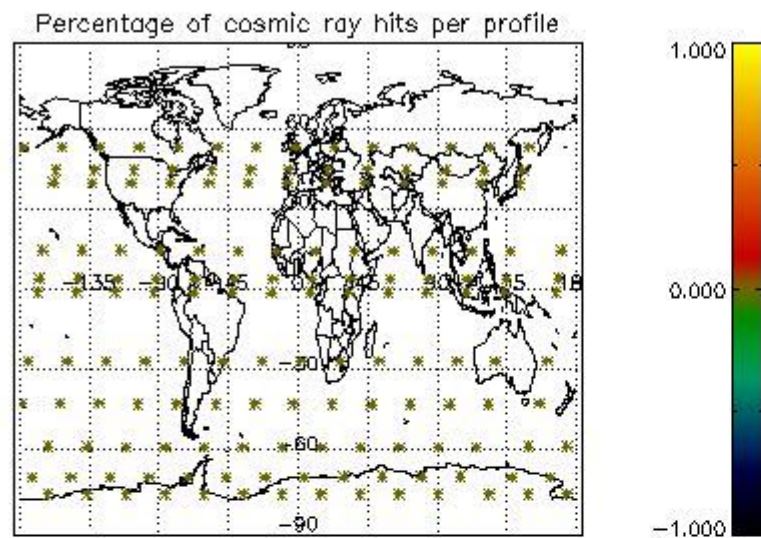


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

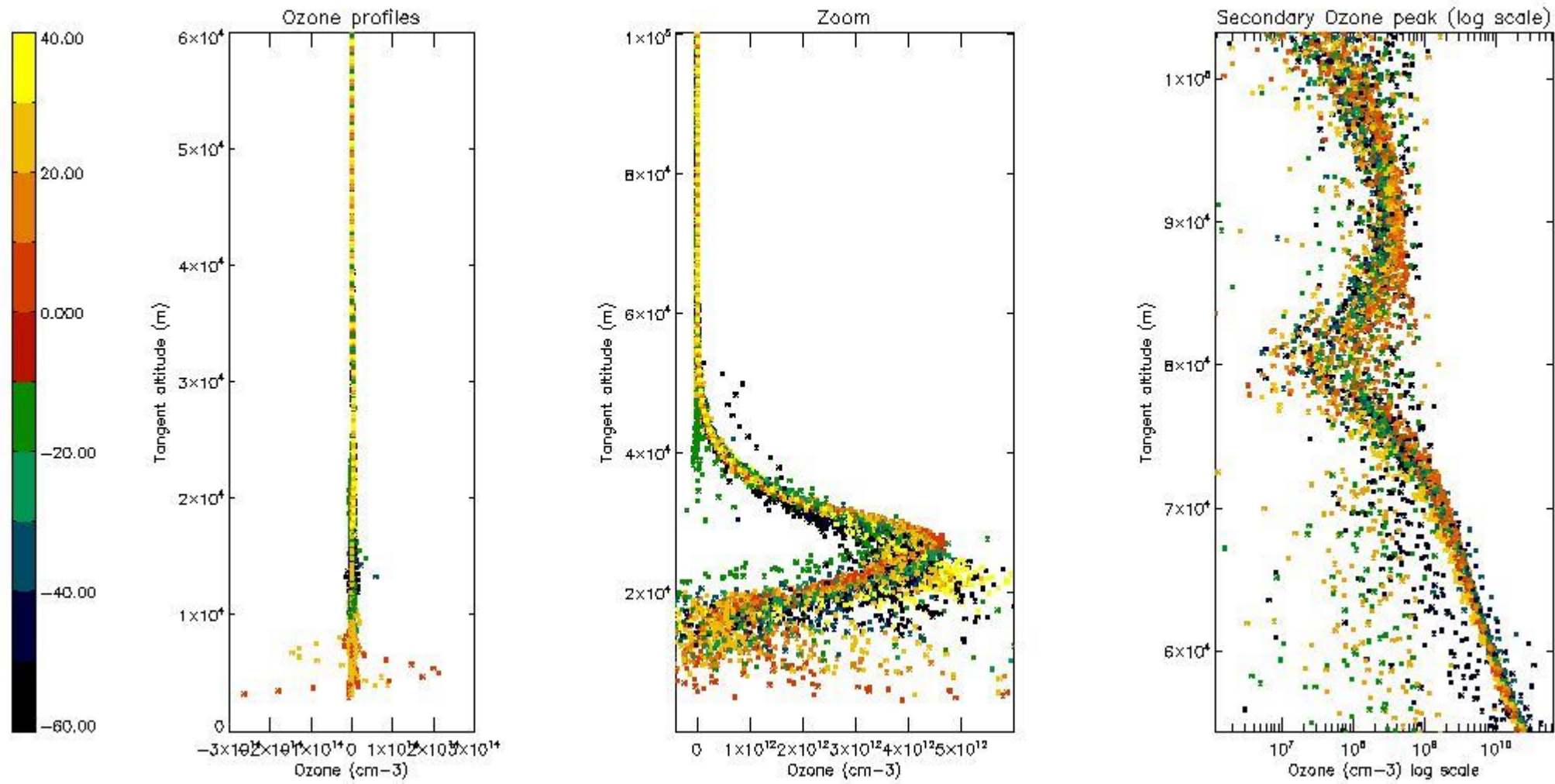
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	43
STD < 20	22

STD < 10	17
STD < 5	12

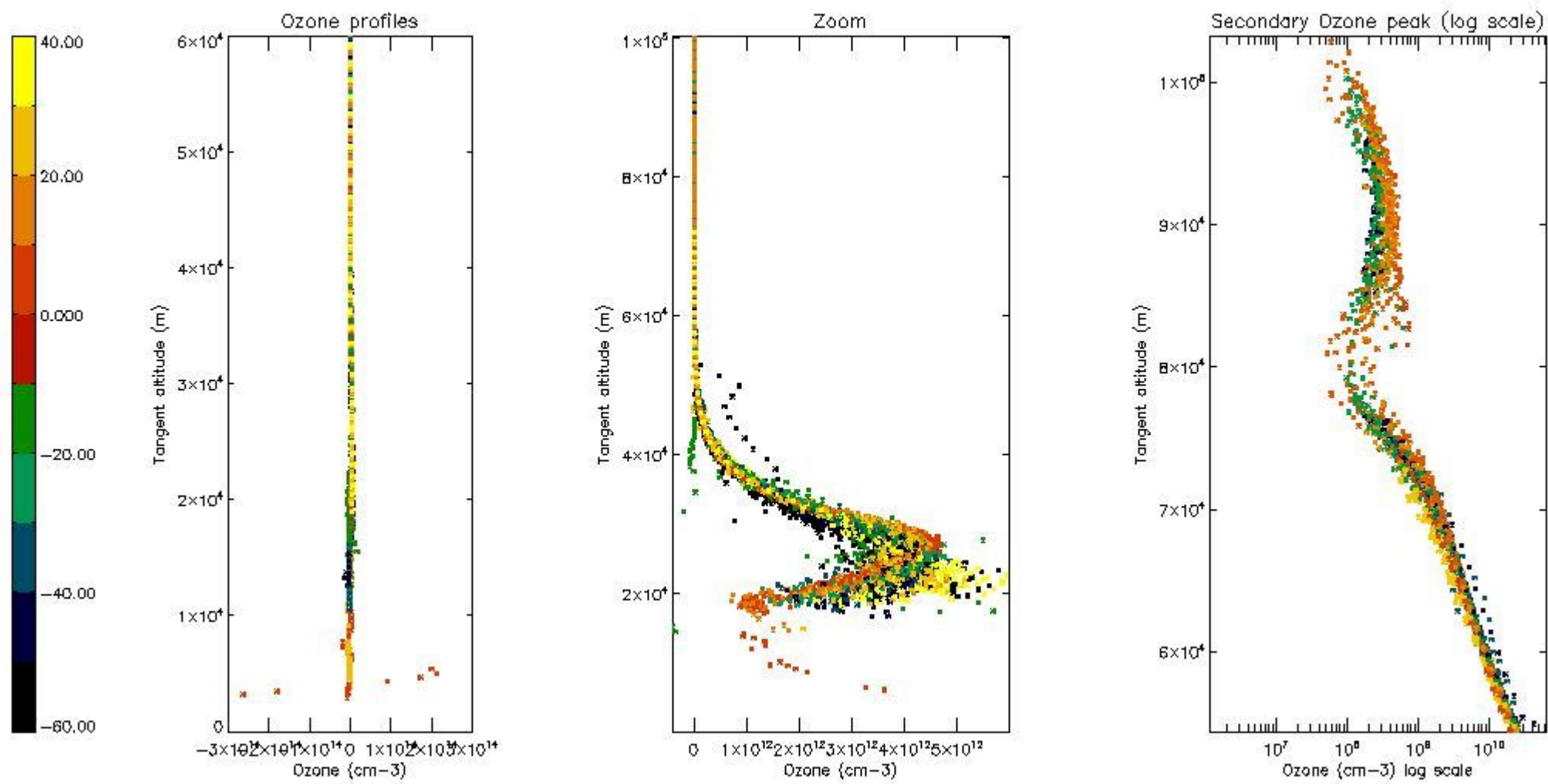
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



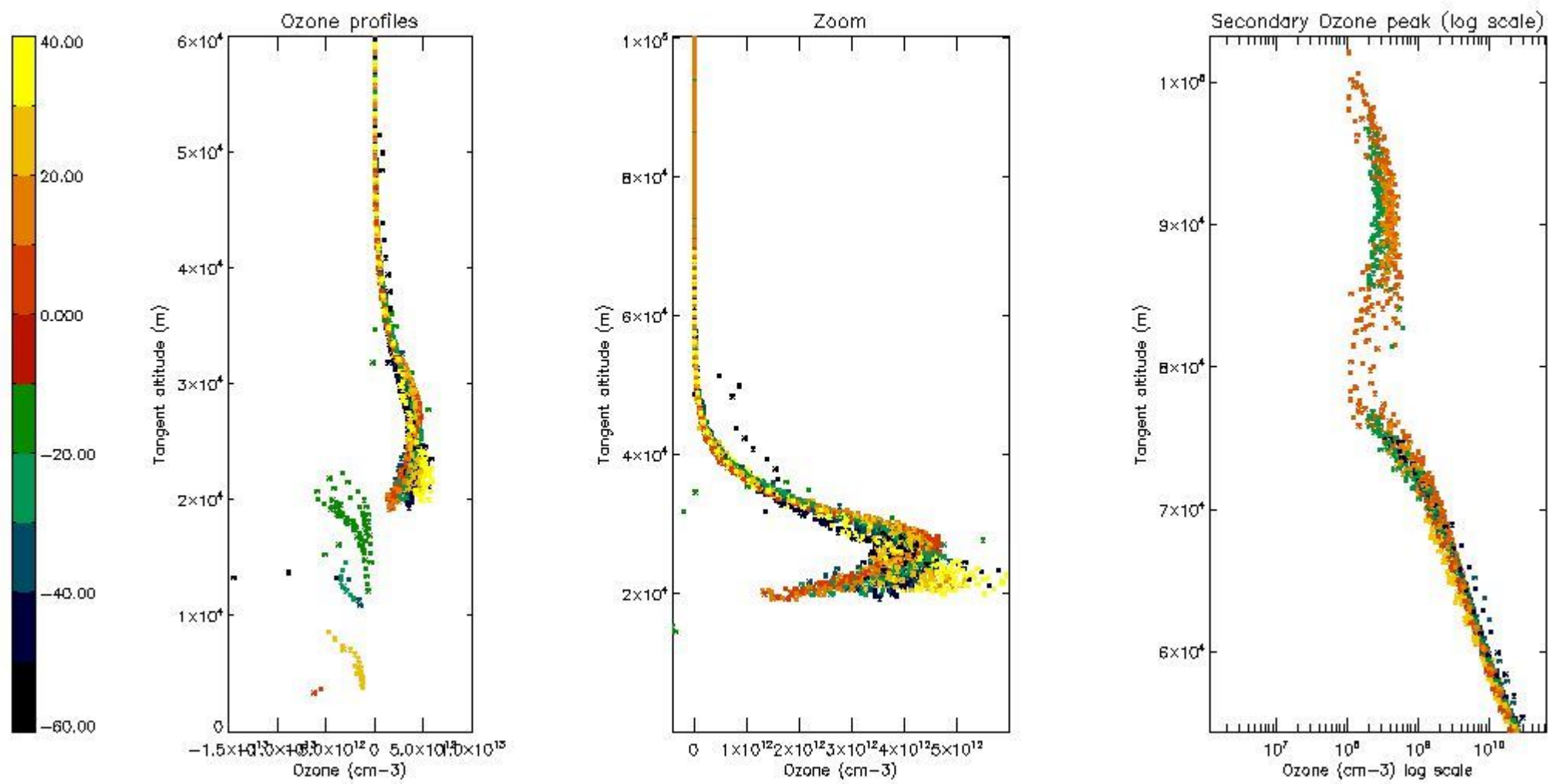
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



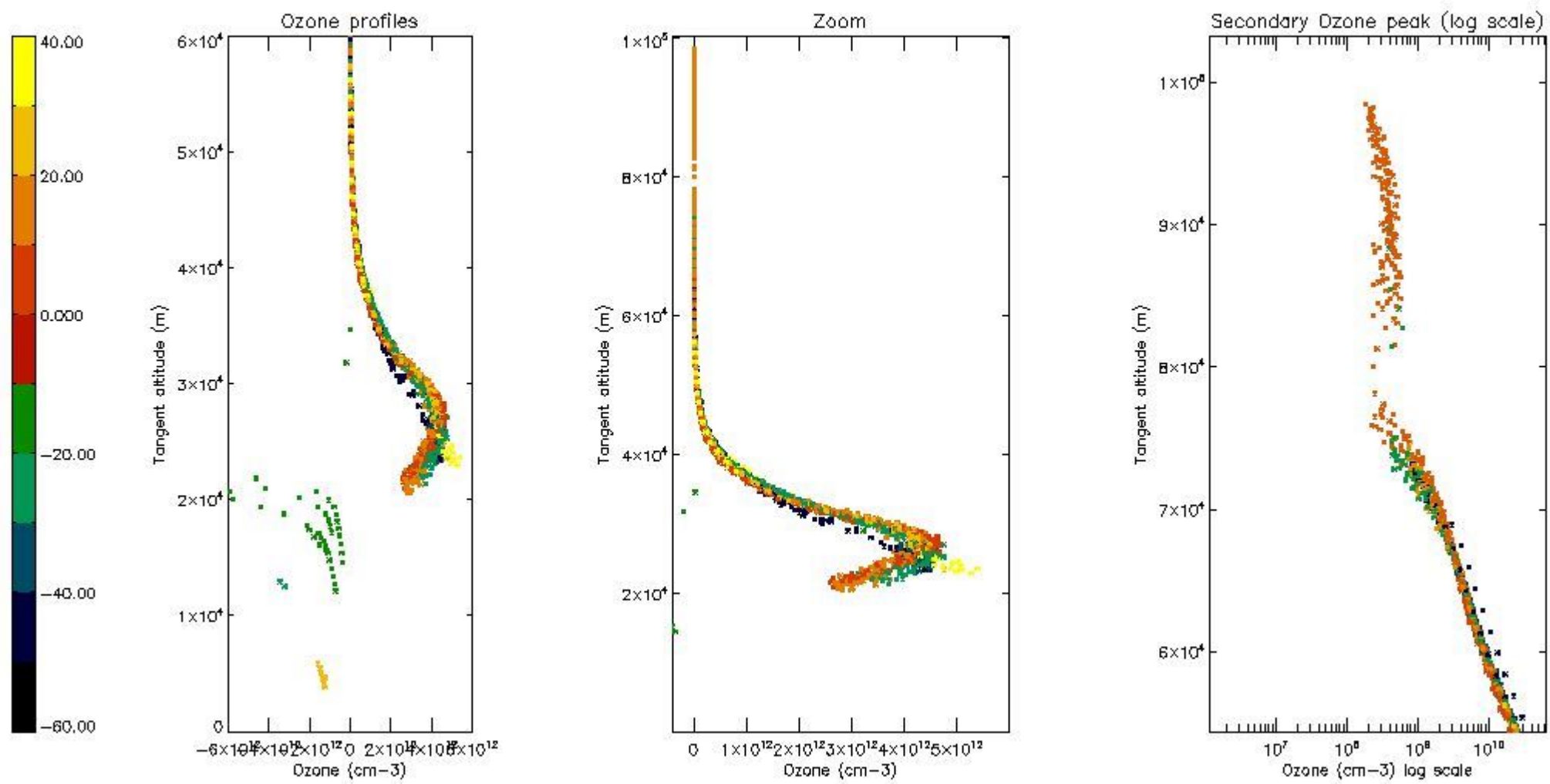
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



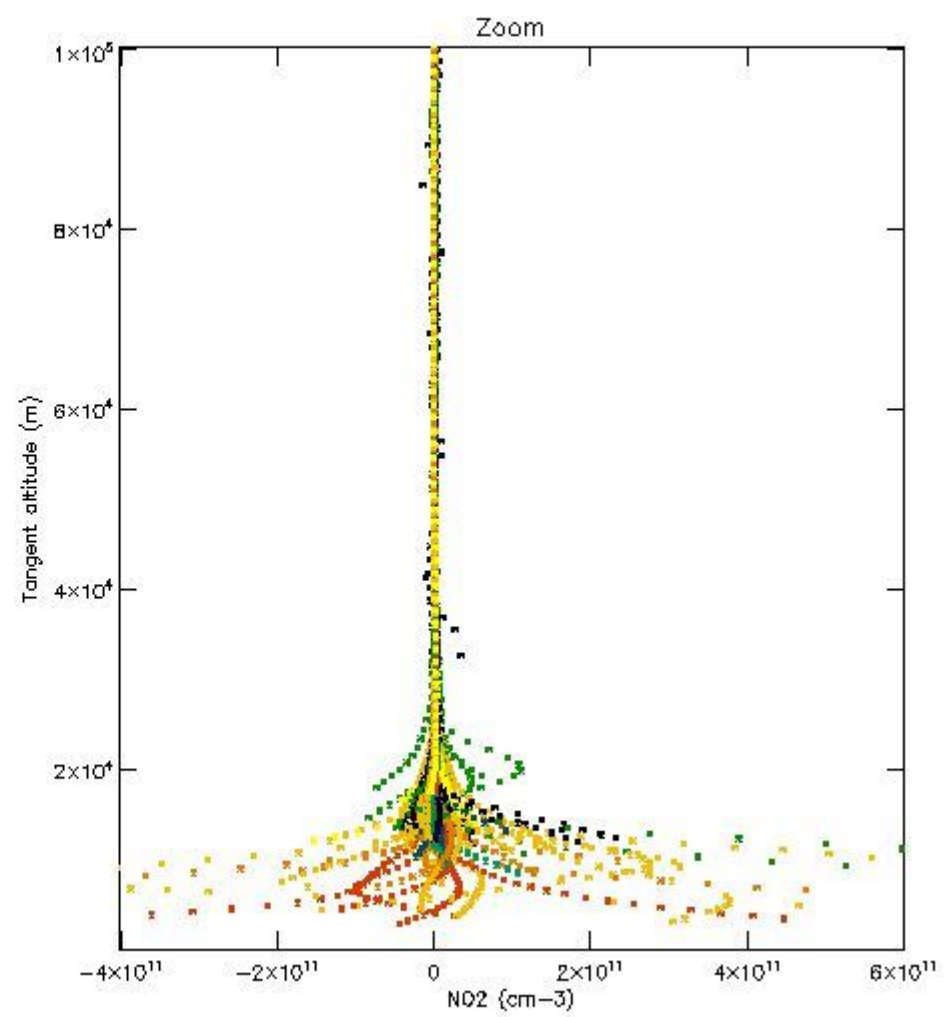
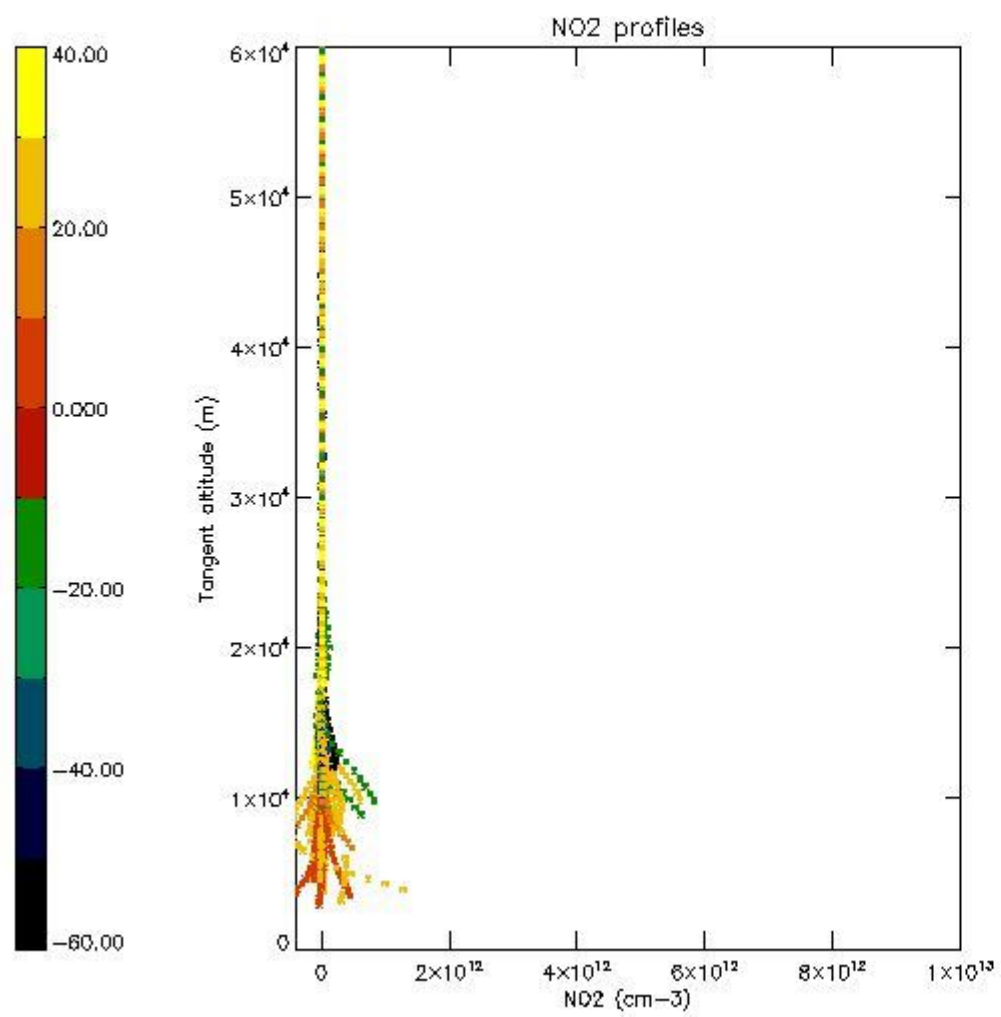
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



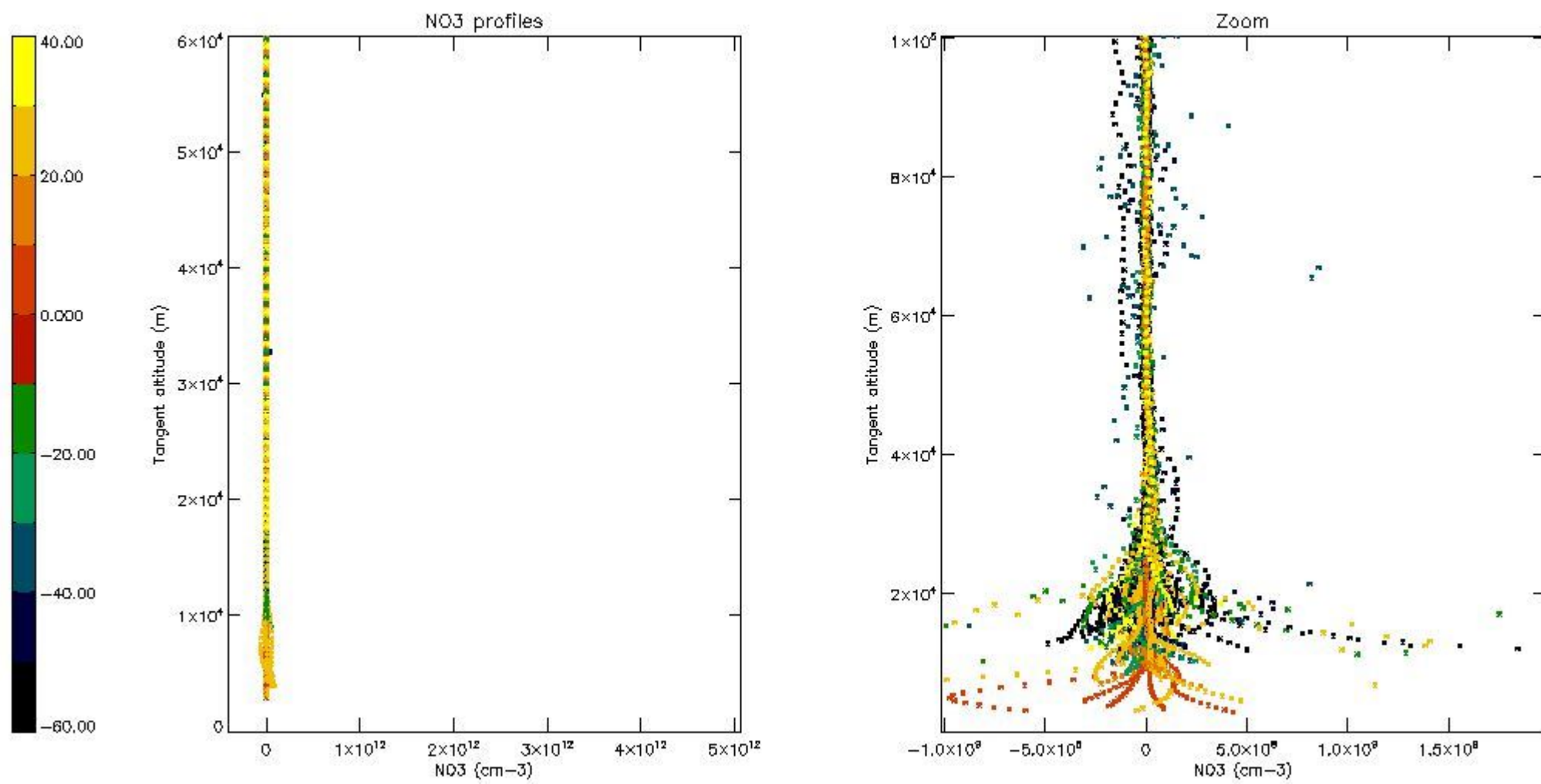
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



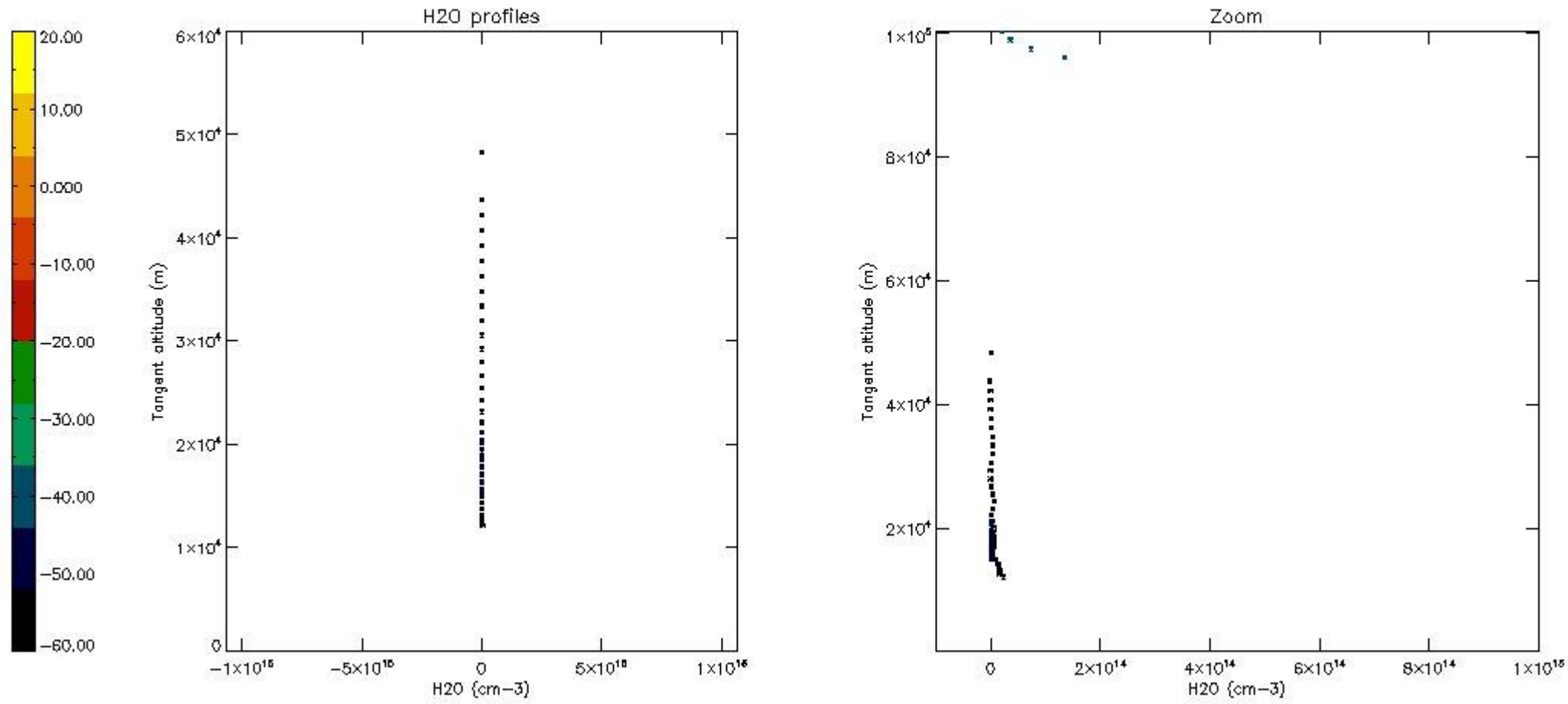
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



5.8 Plot H2O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 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	06-MAR-2010 00:04:11
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-MAR-2010 00:04:11
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-MAR-2010 00:04:11

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[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 17:57:44
Data source version	GOMOS/6.01
Start time of products	06-03-2010 (06MAR2010 00:00:00)
Stop time of products	07-03-2010 (07MAR2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	339
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

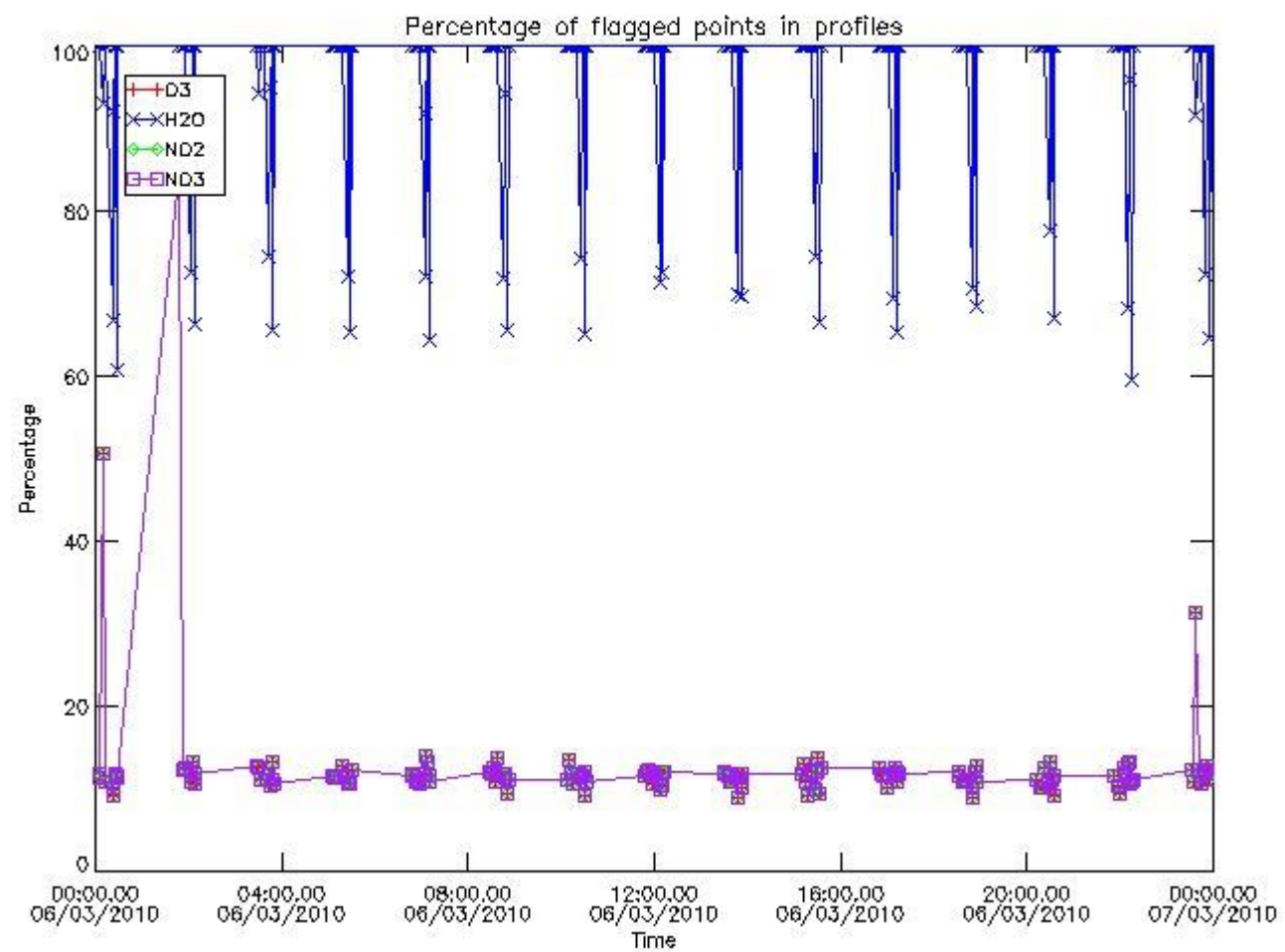
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20100306_000411_000000452087_00259_41896_7992.N1	06-MAR-2010 00:04:11	Dark	45.000	155	41Pi Sgr	2.9000	6600.0	90	41896	No
2	GOM_NL__2PRFIN20100306_000604_000000432087_00259_41896_7993.N1	06-MAR-2010 00:06:04	Dark	43.000	57	34Sig Sgr	2.0660	26000.	86	41896	No
3	GOM_NL__2PRFIN20100306_000917_000000432087_00259_41896_7994.N1	06-MAR-2010 00:09:17	Dark	43.000	38	20Eps Sgr	1.8360	11000.	86	41896	No
4	GOM_NL__2PRFIN20100306_001223_000000472087_00259_41896_7995.N1	06-MAR-2010 00:12:23	Dark	47.000	25	35Lam Sco	1.6200	28000.	94	41896	No
5	GOM_NL__2PRFIN20100306_002221_000000562087_00260_41897_7981.N1	06-MAR-2010 00:22:21	Dark	56.000	4	Alp1Cen	-0.010000	5800.0	112	41897	No
6	GOM_NL__2PRFIN20100306_002339_000000512087_00260_41897_7982.N1	06-MAR-2010 00:23:39	Dark	50.500	10	Bet Cen	0.61000	28000.	101	41897	No
7	GOM_NL__2PRFIN20100306_002533_000000442087_00260_41897_7983.N1	06-MAR-2010 00:25:33	Dark	43.500	77	Eps Cen	2.3030	28000.	87	41897	No
8	GOM_NL__2PRFIN20100306_002709_000000452087_00260_41897_7984.N1	06-MAR-2010 00:27:09	Dark	45.000	26	Gam Cru	1.6240	2900.0	90	41897	No
9	GOM_NL__2PRFIN20100306_002840_000000442087_00260_41897_7985.N1	06-MAR-2010 00:28:40	Dark	44.000	64	Gam Cen	2.2000	10600.	88	41897	No
10	GOM_NL__2PRFIN20100306_003026_000000542087_00260_41897_7986.N1	06-MAR-2010 00:30:26	Straylight	54.000	123	Iot Cen	2.7500	10200.	108	41897	No
11	GOM_NL__2PRFIN20100306_003756_000000312087_00260_41897_7987.N1	06-MAR-2010 00:37:56	Straylight	31.000	171	2Eps Crv	3.0010	4250.0	62	41897	No
12	GOM_NL__2PRFIN20100306_004942_000000422087_00260_41897_7988.N1	06-MAR-2010 00:49:42	Bright	42.000	22	32Alp Leo	1.3600	15200.	84	41897	No
13	GOM_NL__2PRFIN20100306_005211_000000422087_00260_41897_7989.N1	06-MAR-2010 00:52:11	Bright	42.000	51	41Gam1Leo	2.0100	4500.0	84	41897	No
14	GOM_NL__2PRFIN20100306_005336_000000492087_00260_41897_7990.N1	06-MAR-2010 00:53:36	Bright	48.500	96	68Del Leo	2.5600	9300.0	97	41897	No
15	GOM_NL__2PRFIN20100306_010043_000000422087_00260_41897_7991.N1	06-MAR-2010 01:00:43	Bright	41.500	174	52Psi UMa	3.0040	4400.0	83	41897	No
16	GOM_NL__2PRFIN20100306_010339_000000422087_00260_41897_7992.N1	06-MAR-2010 01:03:39	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	41897	No
17	GOM_NL__2PRFIN20100306_010503_000000452087_00260_41897_7993.N1	06-MAR-2010 01:05:03	Bright	44.500	36	50Alp UMa	1.8000	6300.0	89	41897	No
18	GOM_NL__2PRFIN20100306_011215_000000422087_00260_41897_7994.N1	06-MAR-2010 01:12:15	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	41897	No
19	GOM_NL__2PRFIN20100306_011649_000000482087_00260_41897_7995.N1	06-MAR-2010 01:16:49	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	41897	No
20	GOM_NL__2PRFIN20100306_012125_000000502087_00260_41897_7996.N1	06-MAR-2010 01:21:25	Bright	50.000	130	23Bet Dra	2.7990	5800.0	100	41897	No
21	GOM_NL__2PRFIN20100306_012443_000000362087_00260_41897_7997.N1	06-MAR-2010 01:24:43	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	41897	No
22	GOM_NL__2PRFIN20100306_012651_000000482087_00260_41897_7998.N1	06-MAR-2010 01:26:51	Bright	48.000	5	3Alp Lyr	0.033000	11000.	96	41897	No
23	GOM_NL__2PRFIN20100306_013449_000000442087_00260_41897_7999.N1	06-MAR-2010 01:34:49	Bright	43.500	168	17Zet Aql	2.9860	11000.	87	41897	No
24	GOM_NL__2PRFIN20100306_014640_000000442087_00260_41897_8000.N1	06-MAR-2010 01:46:40	Dark	43.500	57	34Sig Sgr	2.0660	26000.	87	41897	No
25	GOM_NL__2PRFIN20100306_015300_000000462087_00260_41897_8001.N1	06-MAR-2010 01:53:00	Dark	46.000	25	35Lam Sco	1.6200	28000.	92	41897	No
26	GOM_NL__2PRFIN20100306_015622_000000412087_00261_41898_8009.N1	06-MAR-2010 01:56:22	Dark	40.500	141	Bet Ara	2.8400	4600.0	81	41898	No
27	GOM_NL__2PRFIN20100306_020257_000000432087_00261_41898_8010.N1	06-MAR-2010 02:02:57	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	41898	No
28	GOM_NL__2PRFIN20100306_020415_000000522087_00261_41898_8011.N1	06-MAR-2010 02:04:15	Dark	51.500	10	Bet Cen	0.61000	28000.	103	41898	No
29	GOM_NL__2PRFIN20100306_020609_000000432087_00261_41898_8012.N1	06-MAR-2010 02:06:09	Dark	42.500	77	Eps Cen	2.3030	28000.	85	41898	No
30	GOM_NL__2PRFIN20100306_020745_000000482087_00261_41898_8013.N1	06-MAR-2010 02:07:45	Dark	48.000	26	Gam Cru	1.6240	2900.0	96	41898	No
31	GOM_NL__2PRFIN20100306_020917_000000442087_00261_41898_8014.N1	06-MAR-2010 02:09:17	Dark	43.500	64	Gam Cen	2.2000	10600.	87	41898	No
32	GOM_NL__2PRFIN20100306_021102_000000552087_00261_41898_8015.N1	06-MAR-2010 02:11:02	Straylight	55.000	123	Iot Cen	2.7500	10200.	110	41898	No
33	GOM_NL__2PRFIN20100306_021832_000000362087_00261_41898_8016.N1	06-MAR-2010 02:18:32	Straylight	36.000	171	2Eps Crv	3.0010	4250.0	72	41898	No
34	GOM_NL__2PRFIN20100306_023017_000000412087_00261_41898_8017.N1	06-MAR-2010 02:30:17	Bright	40.500	22	32Alp Leo	1.3600	15200.	81	41898	No
35	GOM_NL__2PRFIN20100306_023246_000000422087_00261_41898_8018.N1	06-MAR-2010 02:32:46	Bright	42.000	51	41Gam1Leo	2.0100	4500.0	84	41898	No
36	GOM_NL__2PRFIN20100306_023412_000000472087_00261_41898_8019.N1	06-MAR-2010 02:34:12	Bright	46.500	96	68Del Leo	2.5600	9300.0	93	41898	No
37	GOM_NL__2PRFIN20100306_024119_000000422087_00261_41898_8020.N1	06-MAR-2010 02:41:19	Bright	42.000	174	52Psi UMa	3.0040	4400.0	84	41898	No
38	GOM_NL__2PRFIN20100306_024414_000000412087_00261_41898_8021.N1	06-MAR-2010 02:44:14	Bright	40.500	82	48Bet UMa	2.3650	10600.	81	41898	No
39	GOM_NL__2PRFIN20100306_024538_000000432087_00261_41898_8022.N1	06-MAR-2010 02:45:38	Bright	42.500	36	50Alp UMa	1.8000	6300.0	85	41898	No
40	GOM_NL__2PRFIN20100306_025251_000000412087_00261_41898_8023.N1	06-MAR-2010 02:52:51	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	41898	No
41	GOM_NL__2PRFIN20100306_025724_000000482087_00261_41898_8024.N1	06-MAR-2010 02:57:24	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	41898	No
42	GOM_NL__2PRFIN20100306_030200_000000502087_00261_41898_8025.N1	06-MAR-2010 03:02:00	Bright	49.500	130	23Bet Dra	2.7990	5800.0	99	41898	No

338	GOM_NL__2PRFIN20100306_235711_000000442087_00274_41911_8163.N1	06-MAR-2010 23:57:11	Dark	43.500	64	Gam Cen	2.2000	10600.	87	41911	No
339	GOM_NL__2PRFIN20100306_235900_000000562087_00274_41911_8164.N1	06-MAR-2010 23:59:00	Straylight	55.500	123	lot Cen	2.7500	10200.	111	41911	No

3. Quality information per product

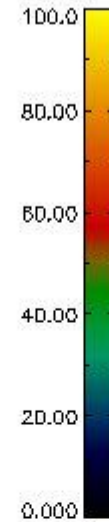
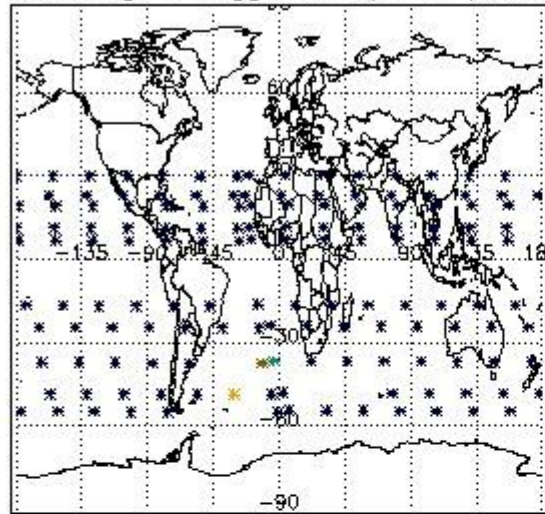
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

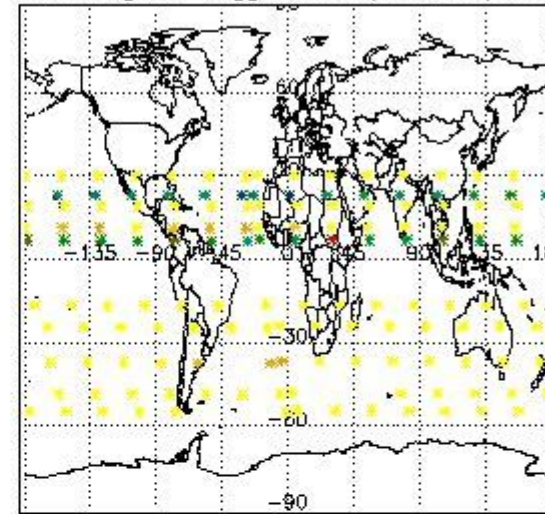


3.2 Plot quality information per product (world map)

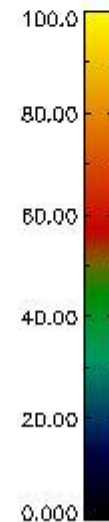
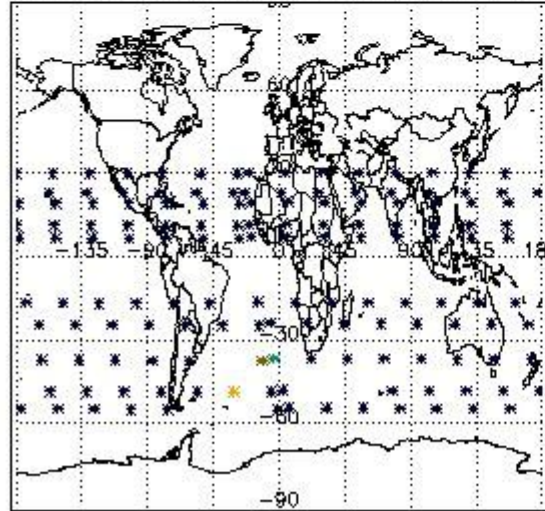
Percentage of flagged data per O3 profile



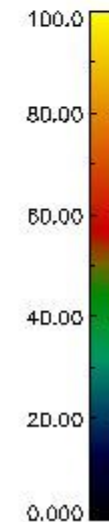
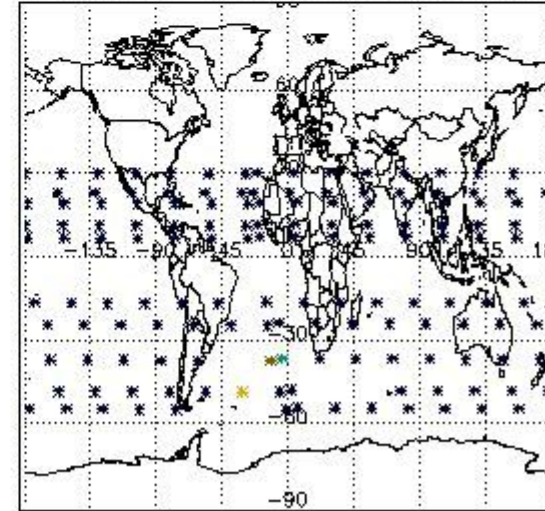
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

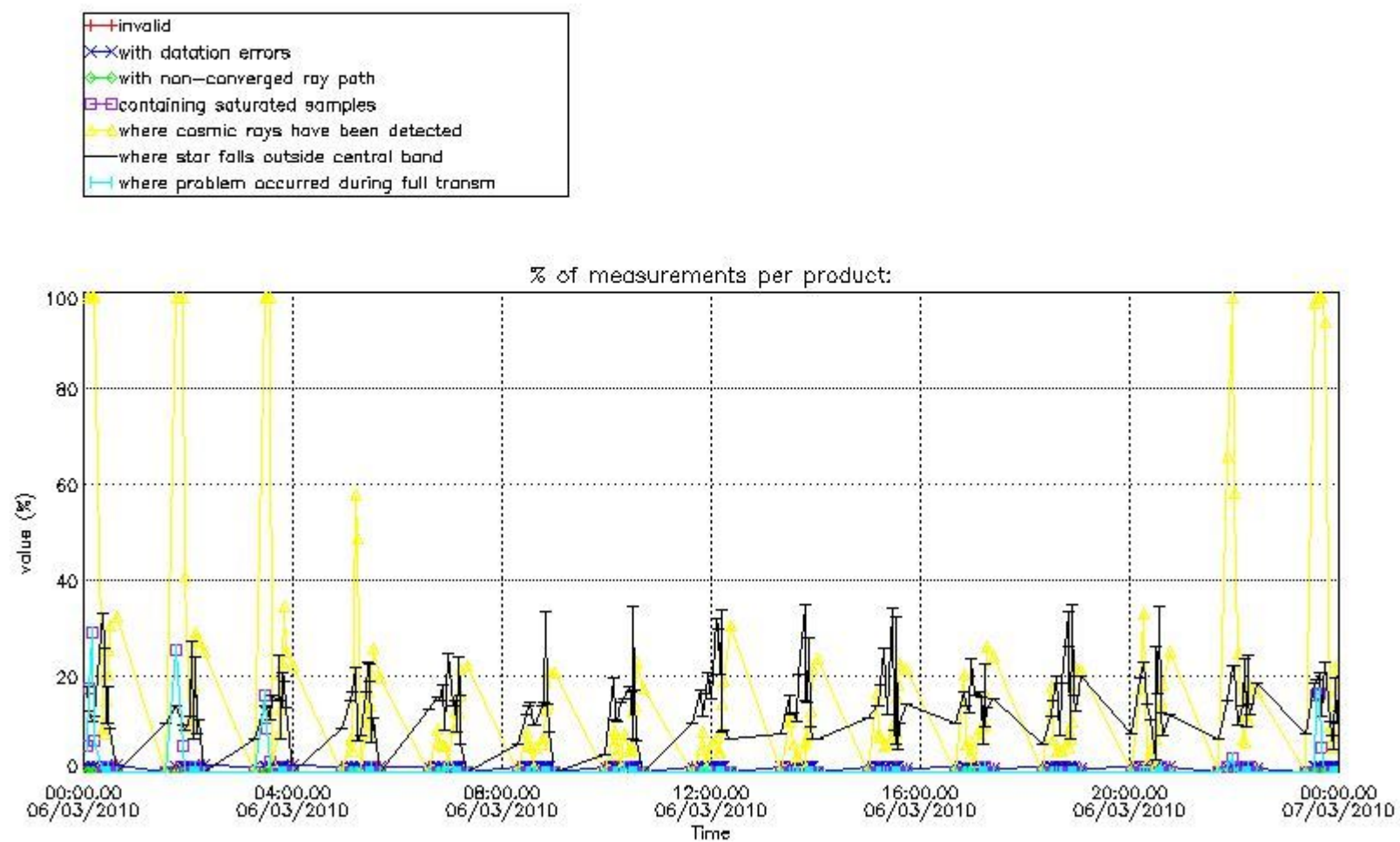


4. Level 1 quality information per product

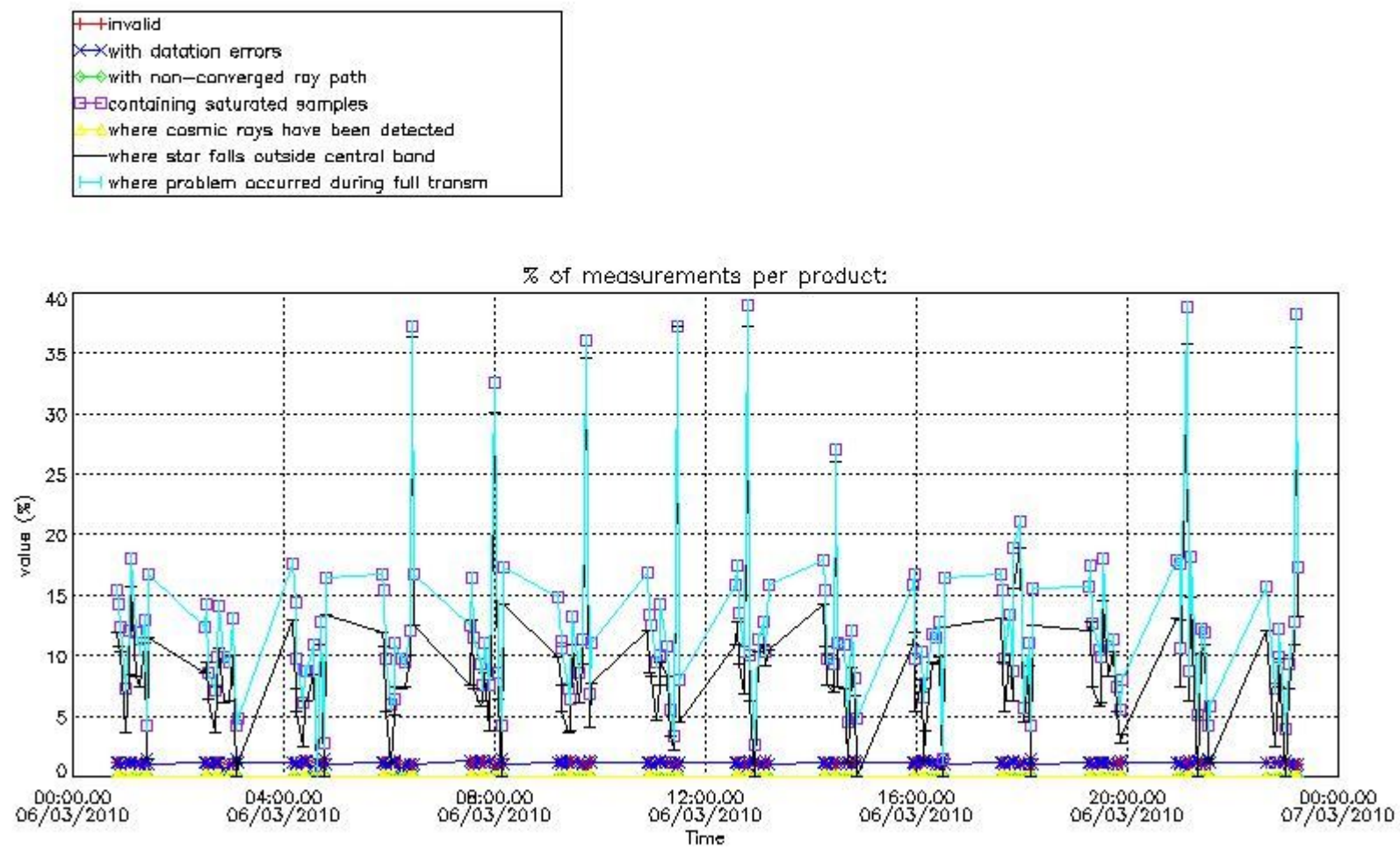
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

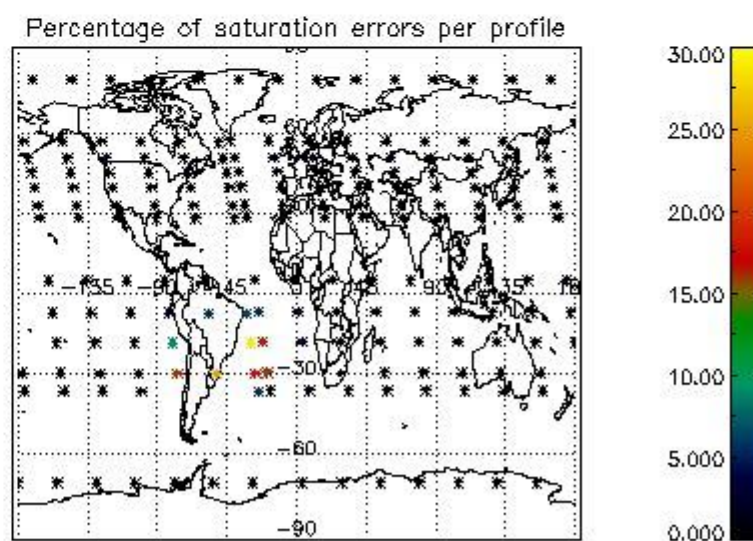
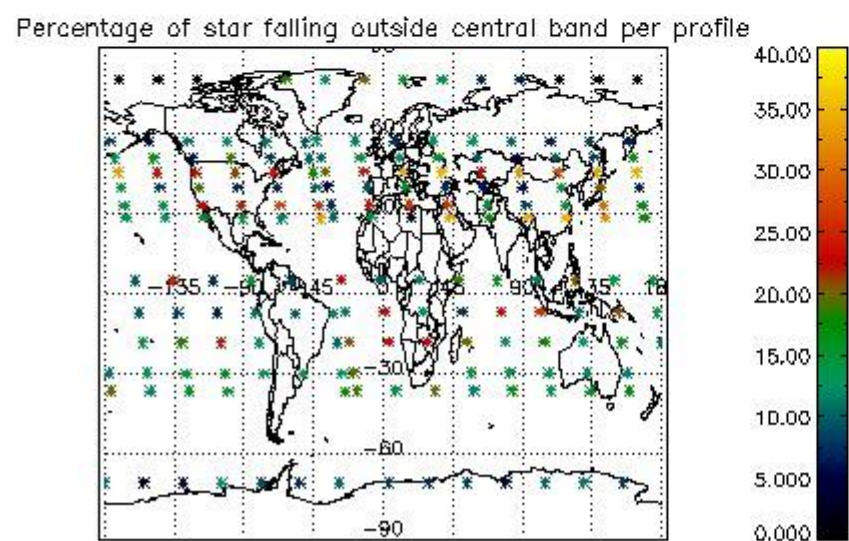
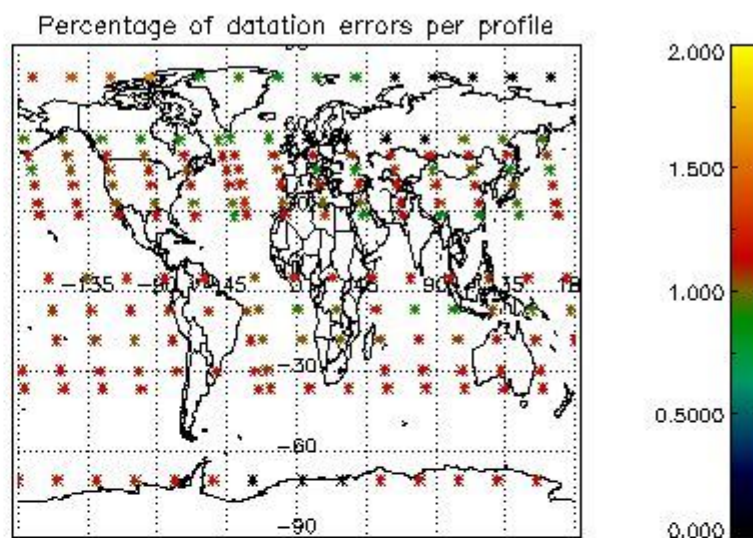
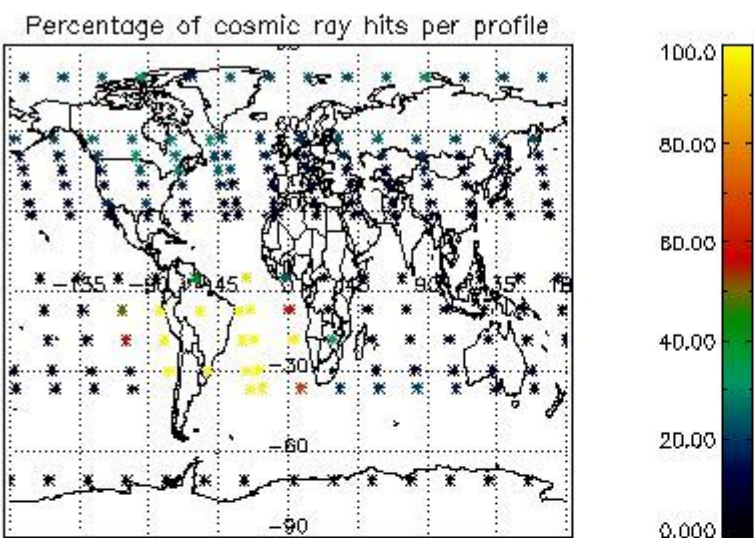


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

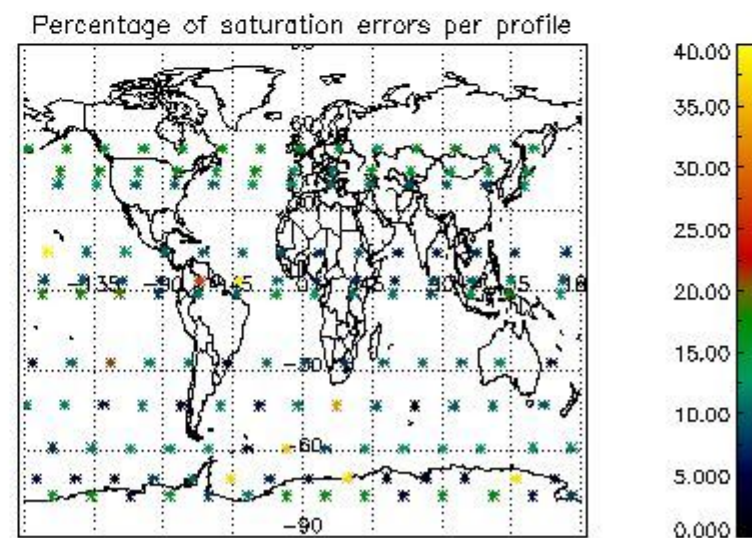
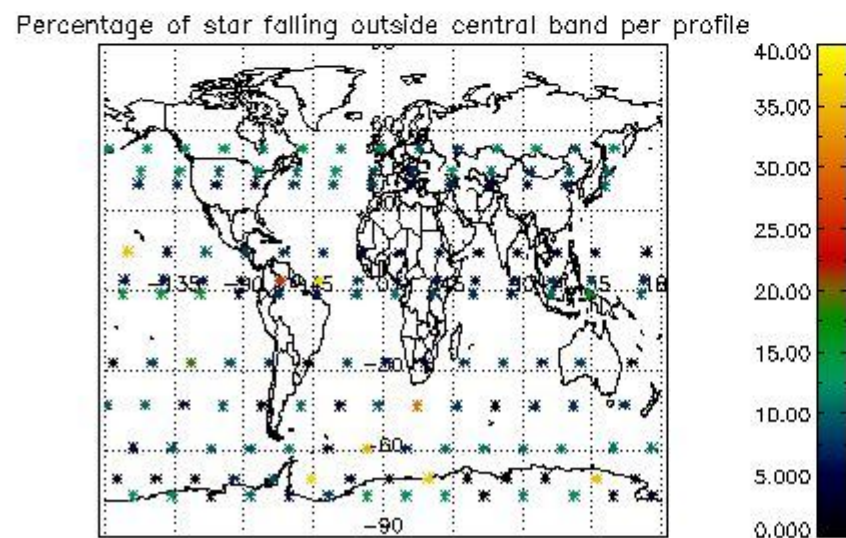
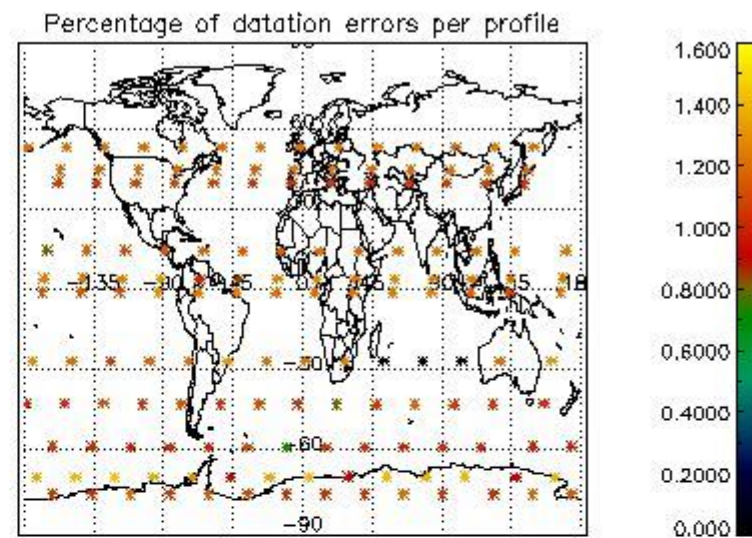
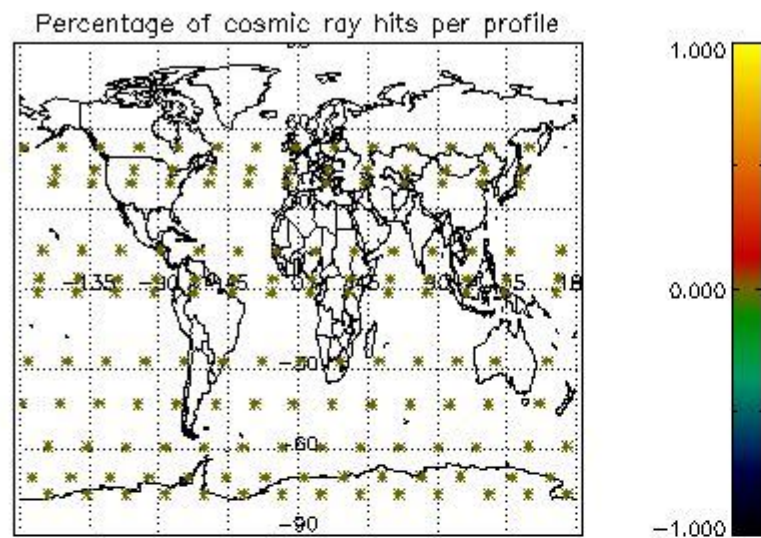


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

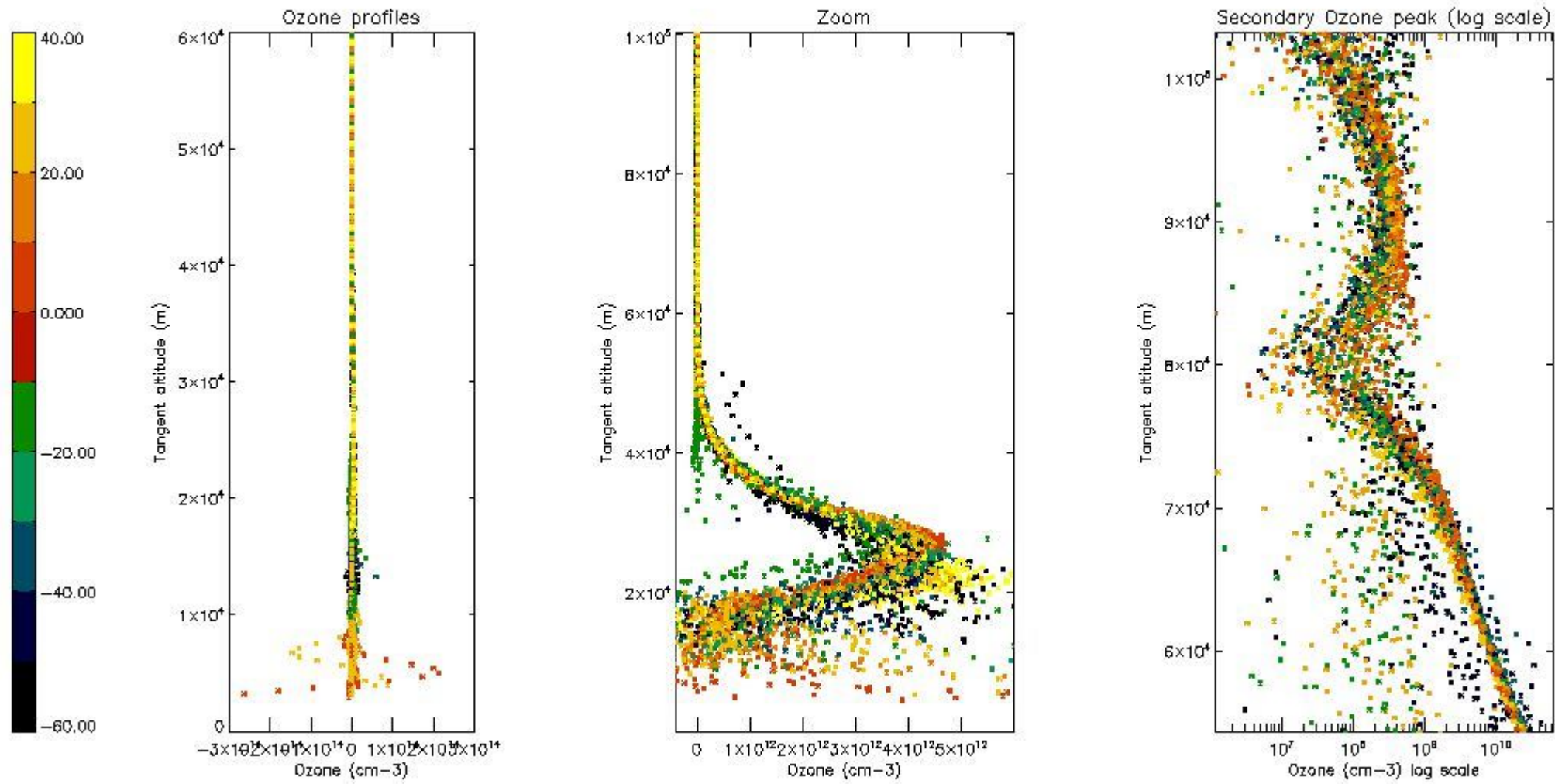
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	43
STD < 20	22

STD < 10	17
STD < 5	12

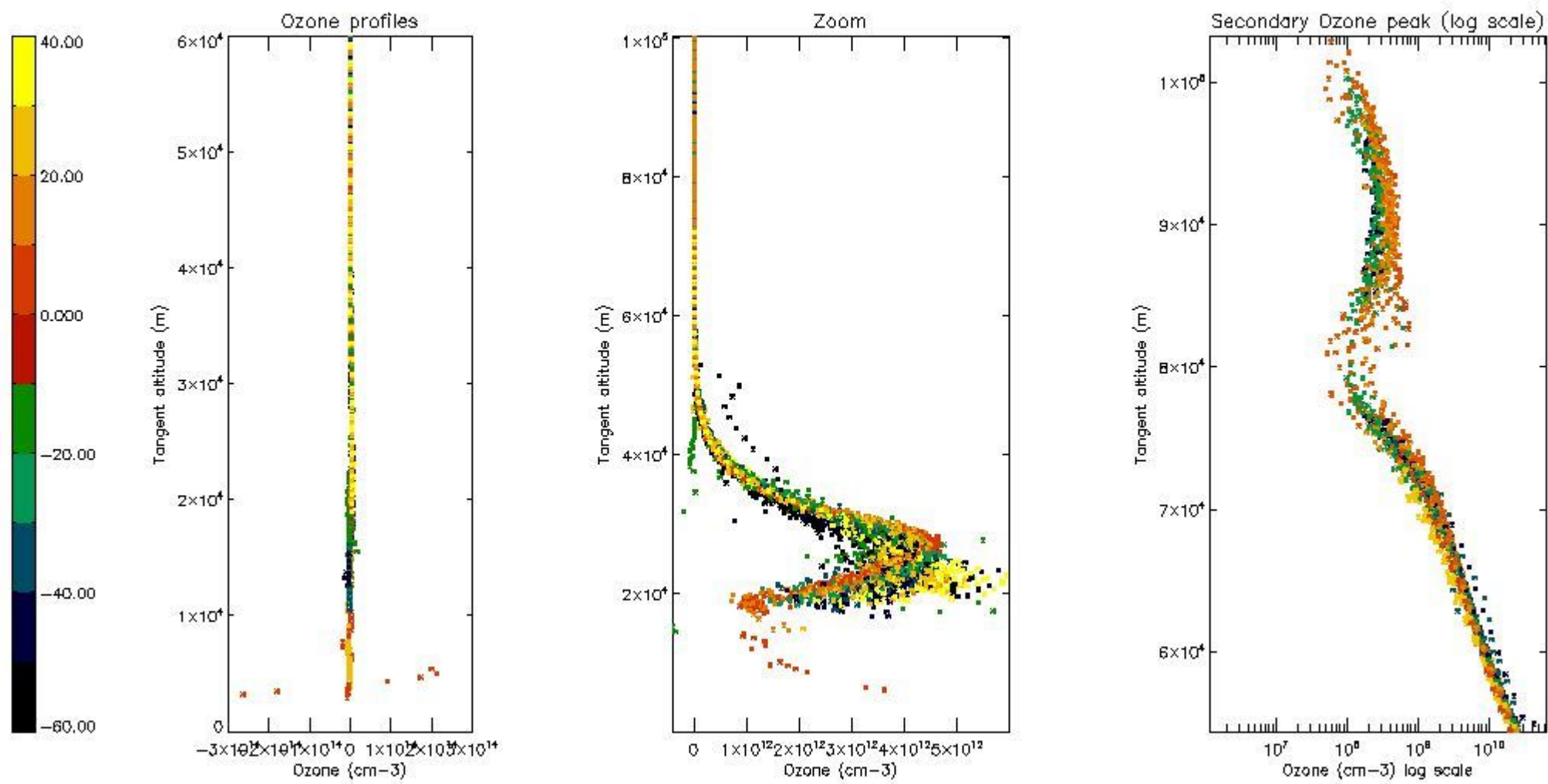
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



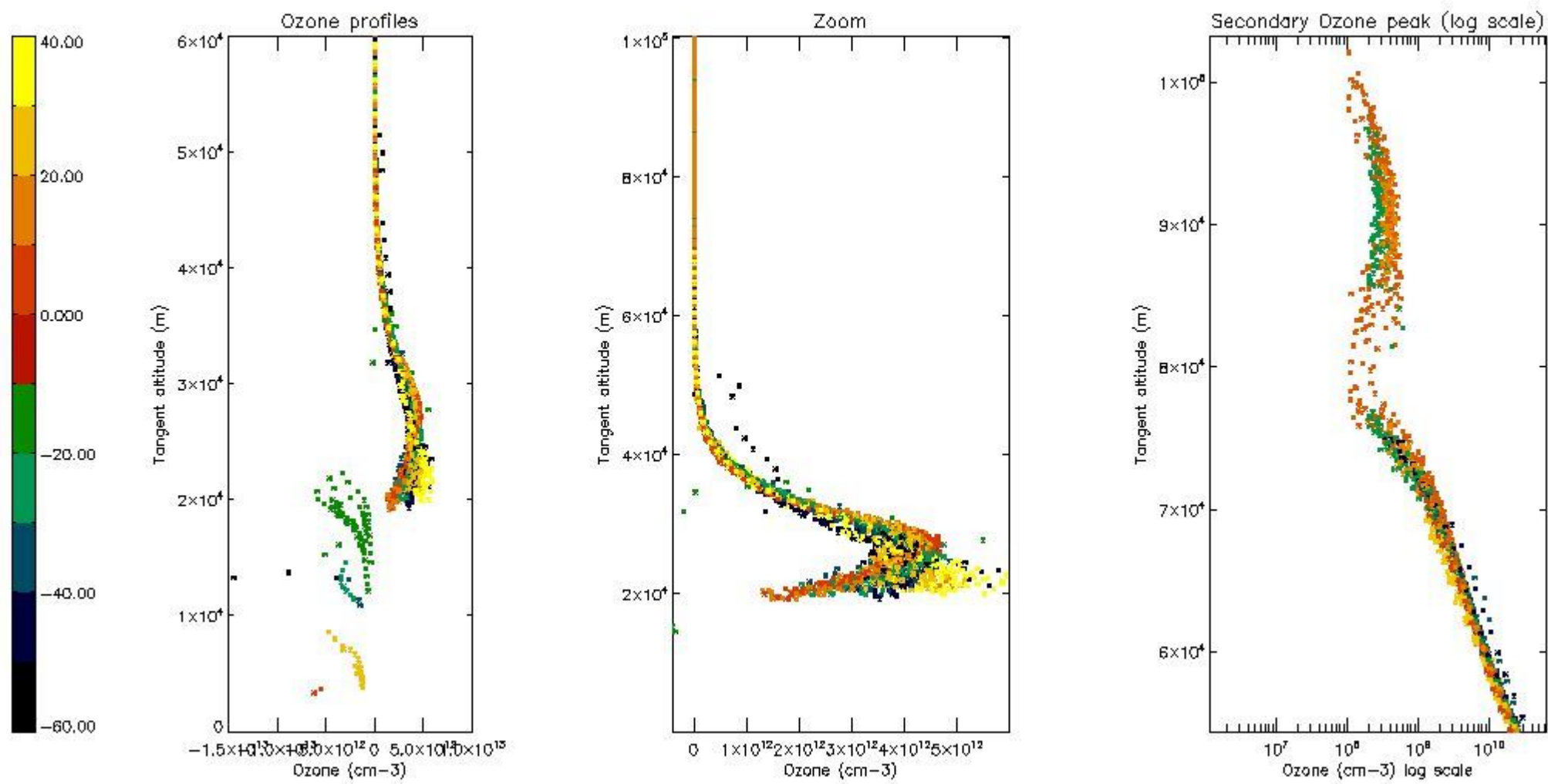
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



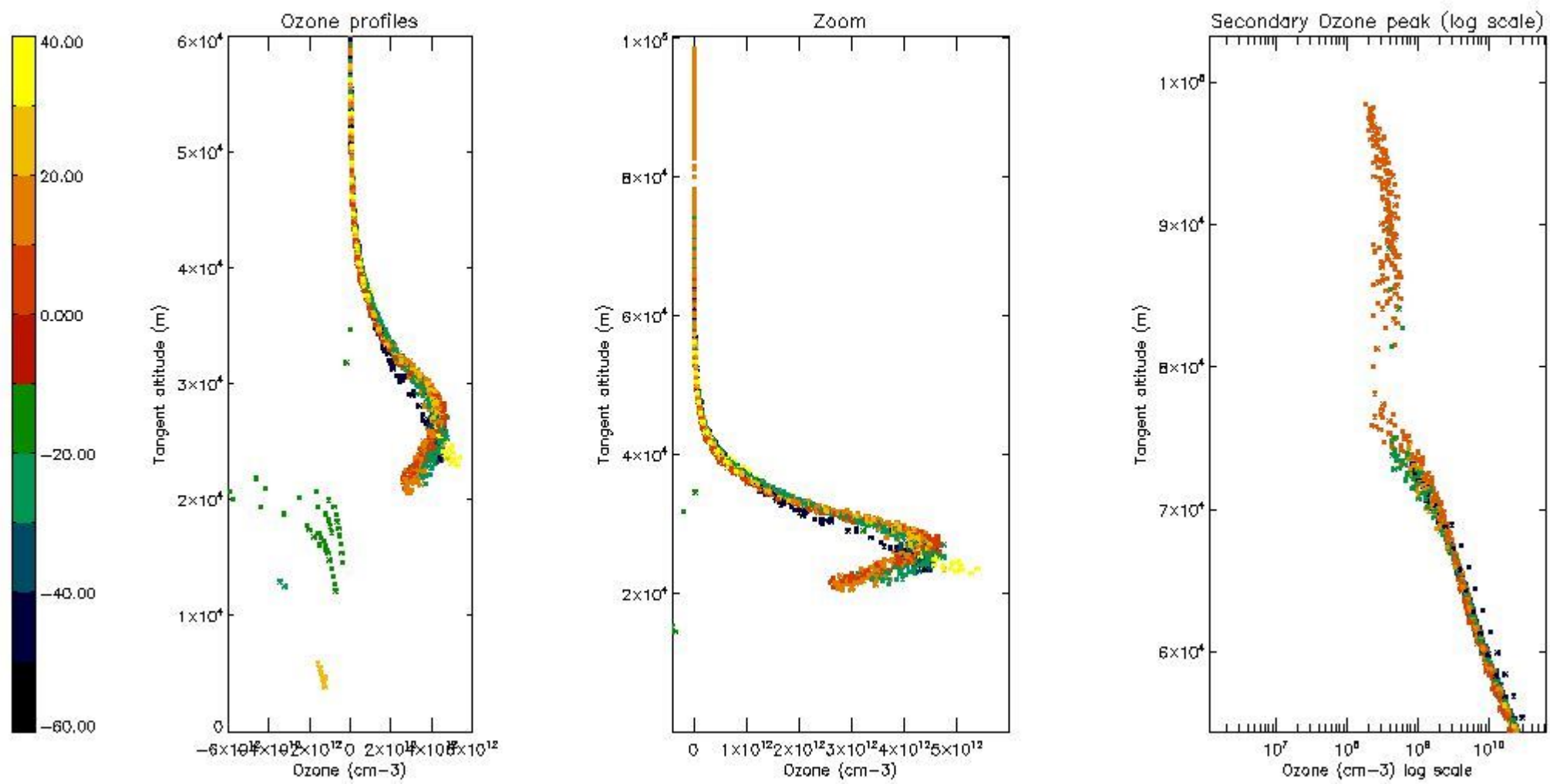
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



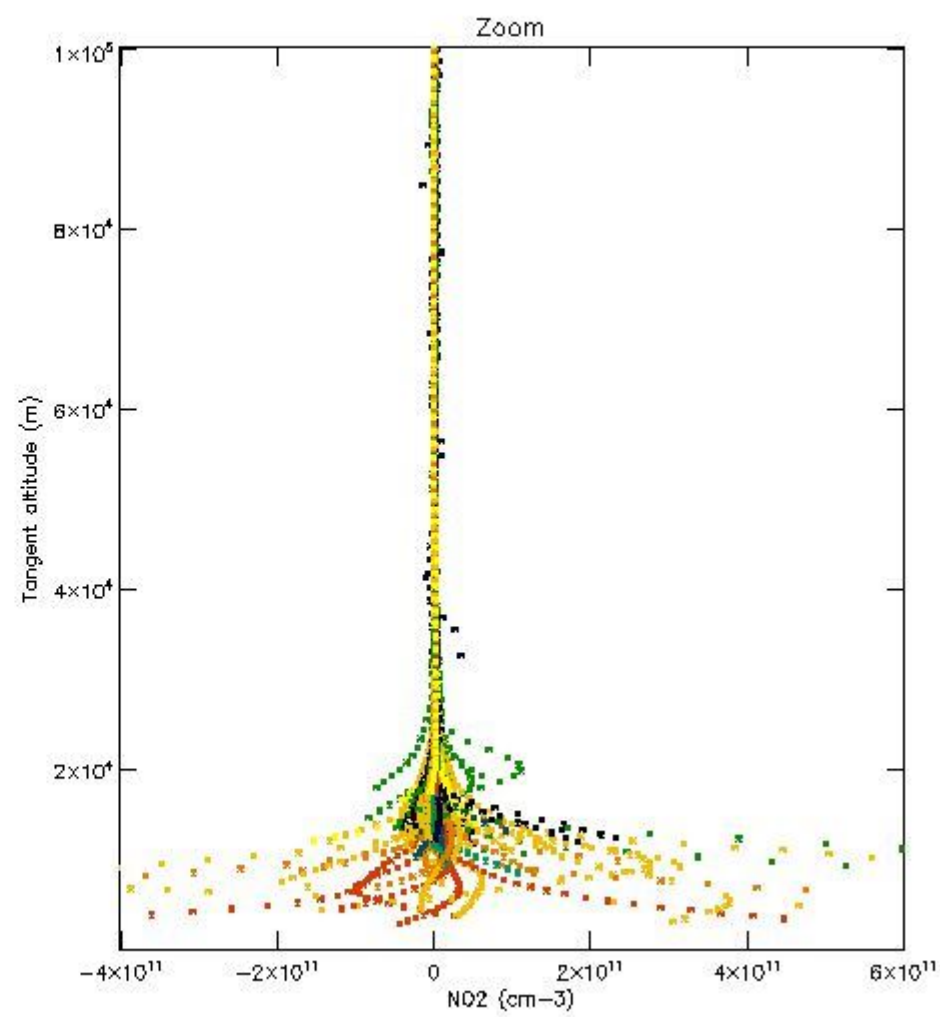
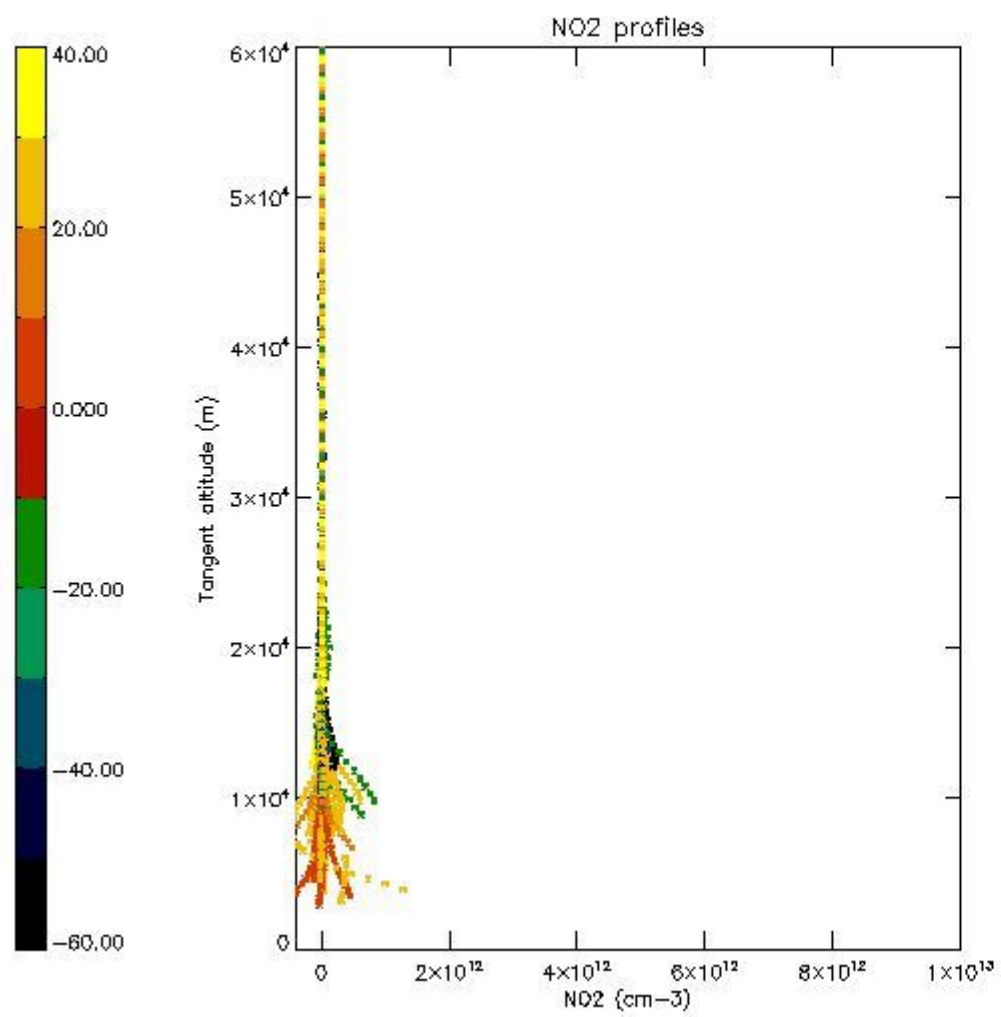
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



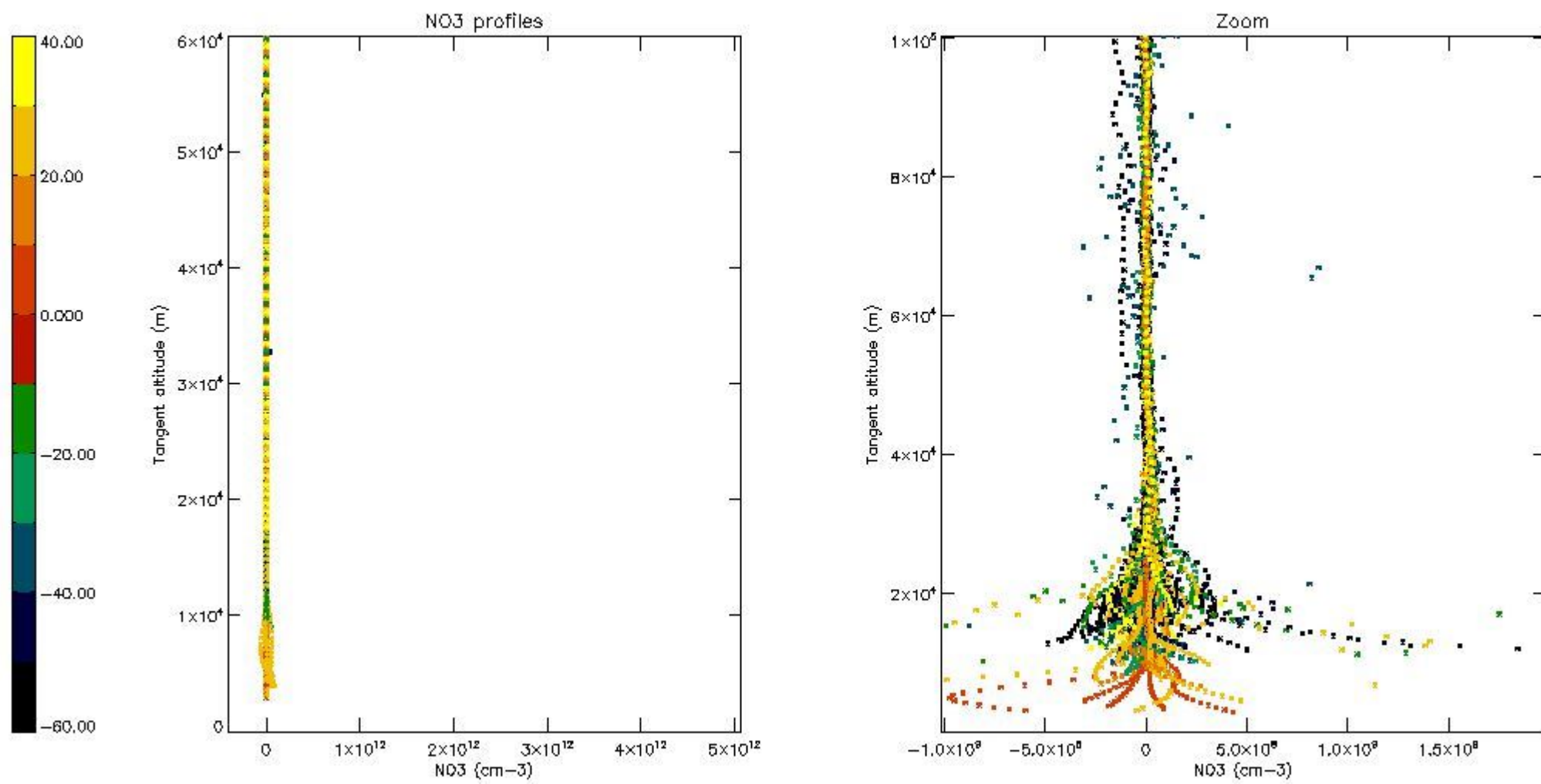
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



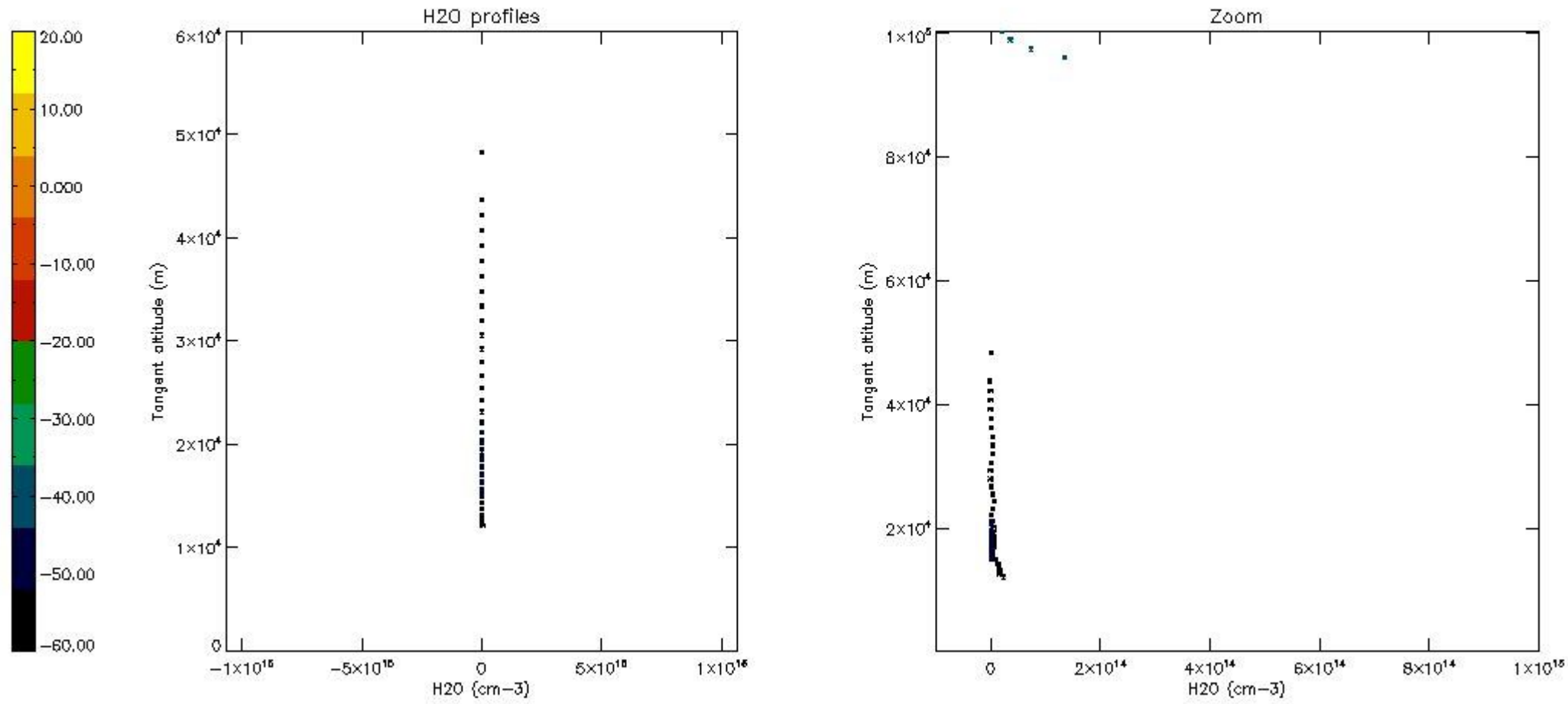
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

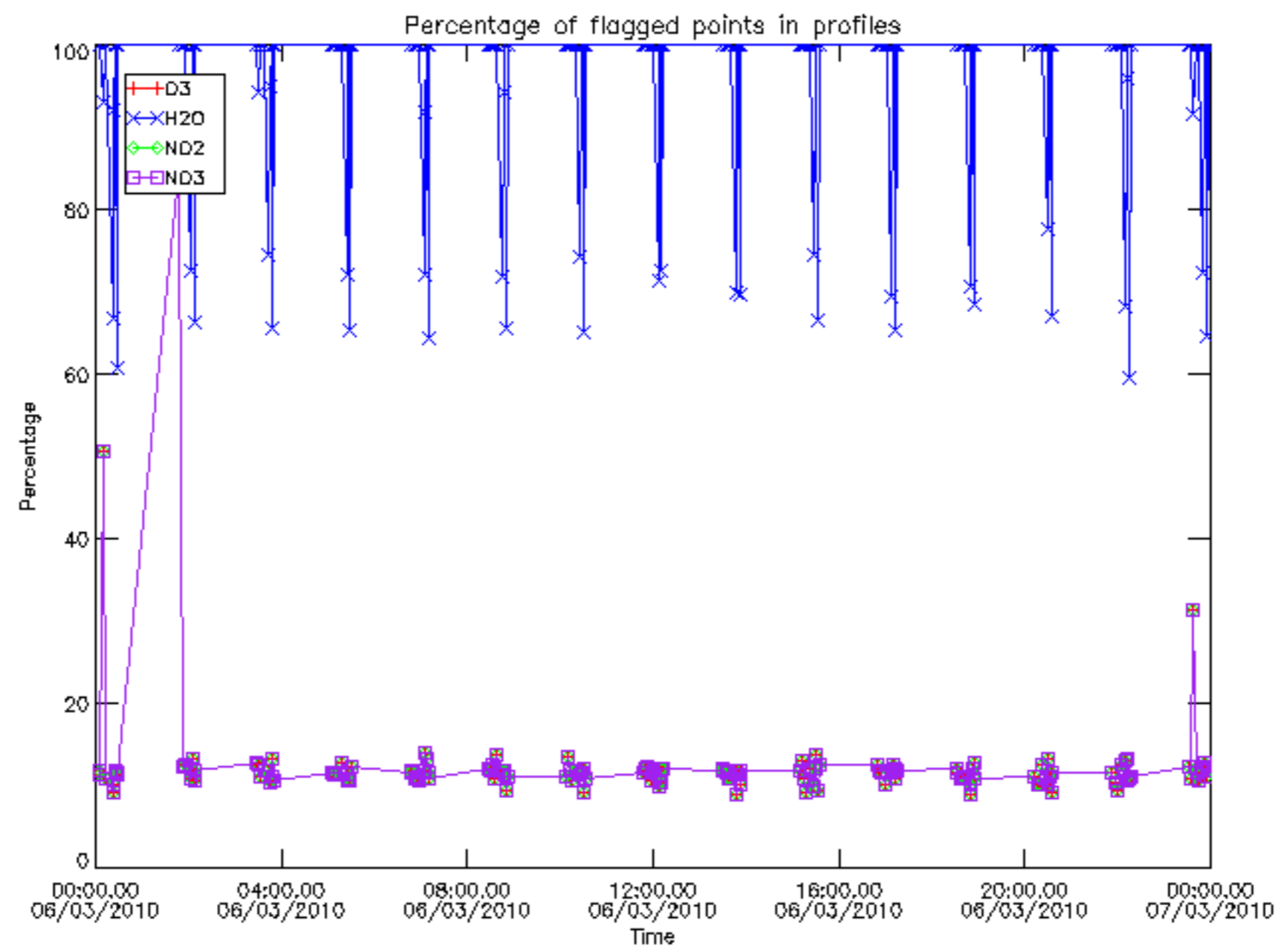
The colorbar represents the latitude.



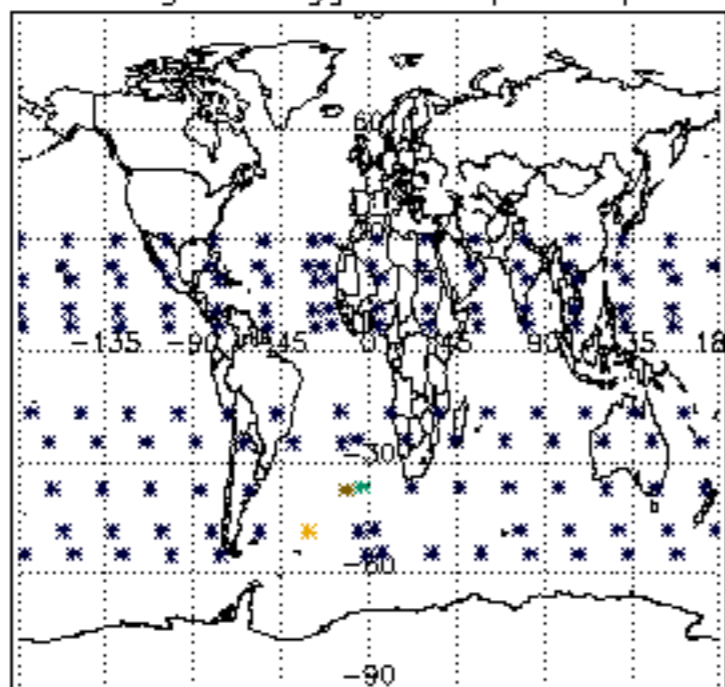
6. Auxiliary Data Files used for the production reported in section 2

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.

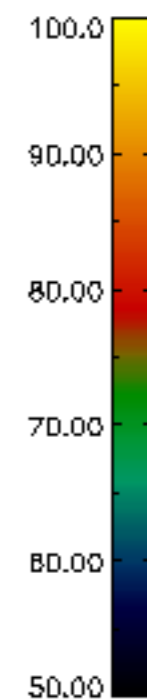
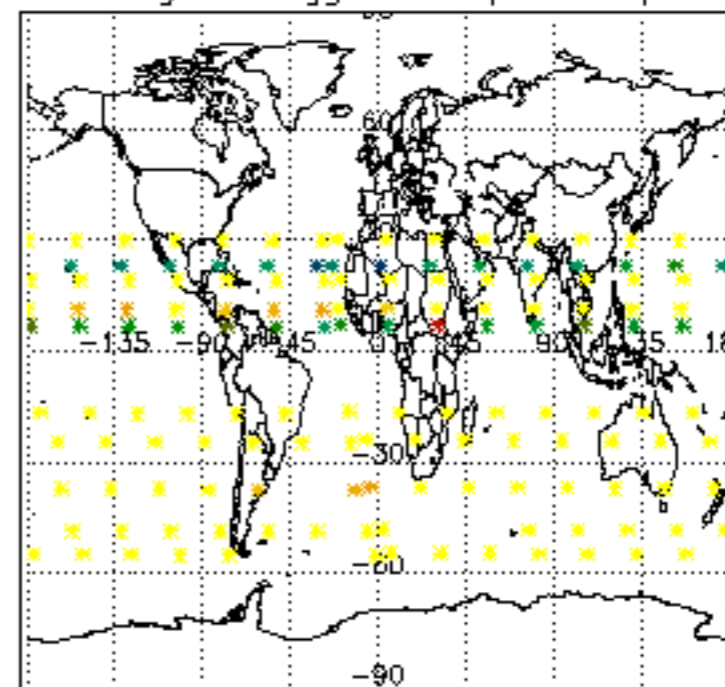
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	06-MAR-2010 00:04:11
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-MAR-2010 00:04:11
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-MAR-2010 00:04:11



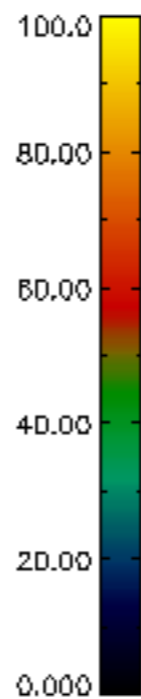
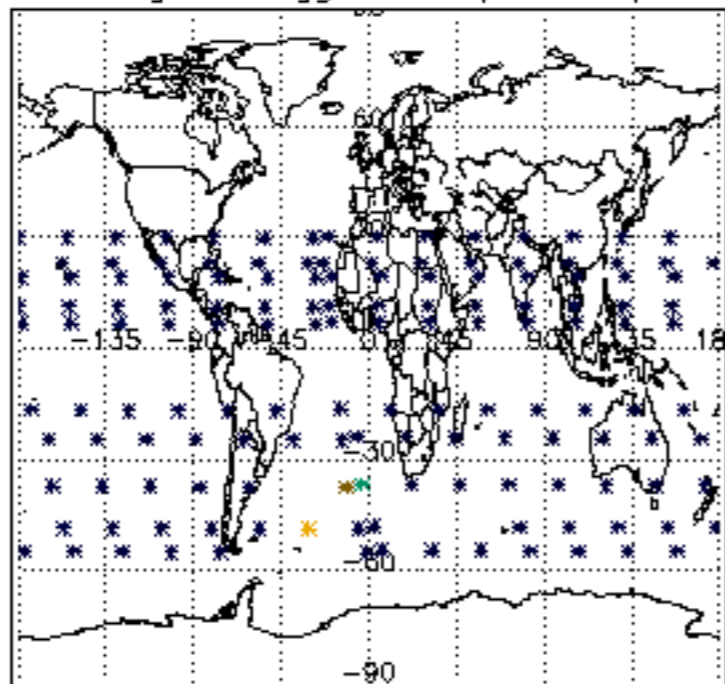
Percentage of flagged data per D3 profile



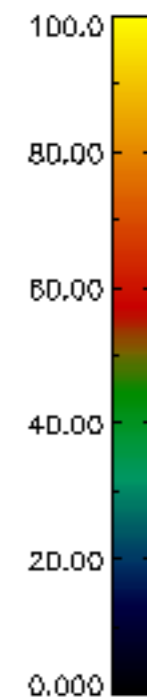
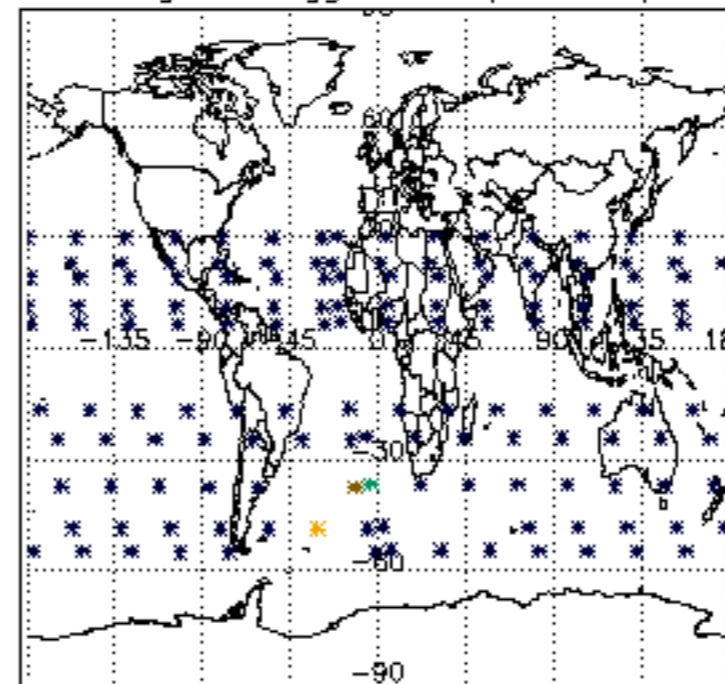
Percentage of flagged data per H2O profile

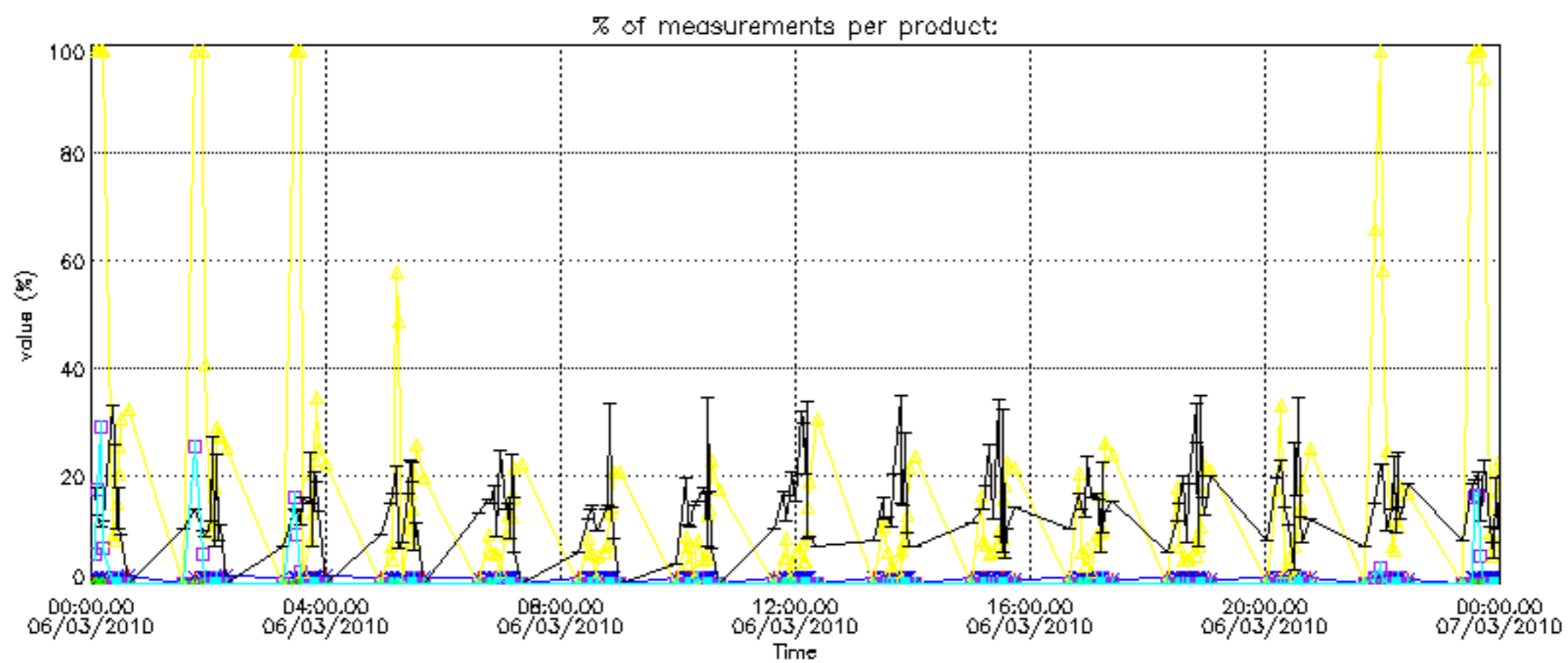


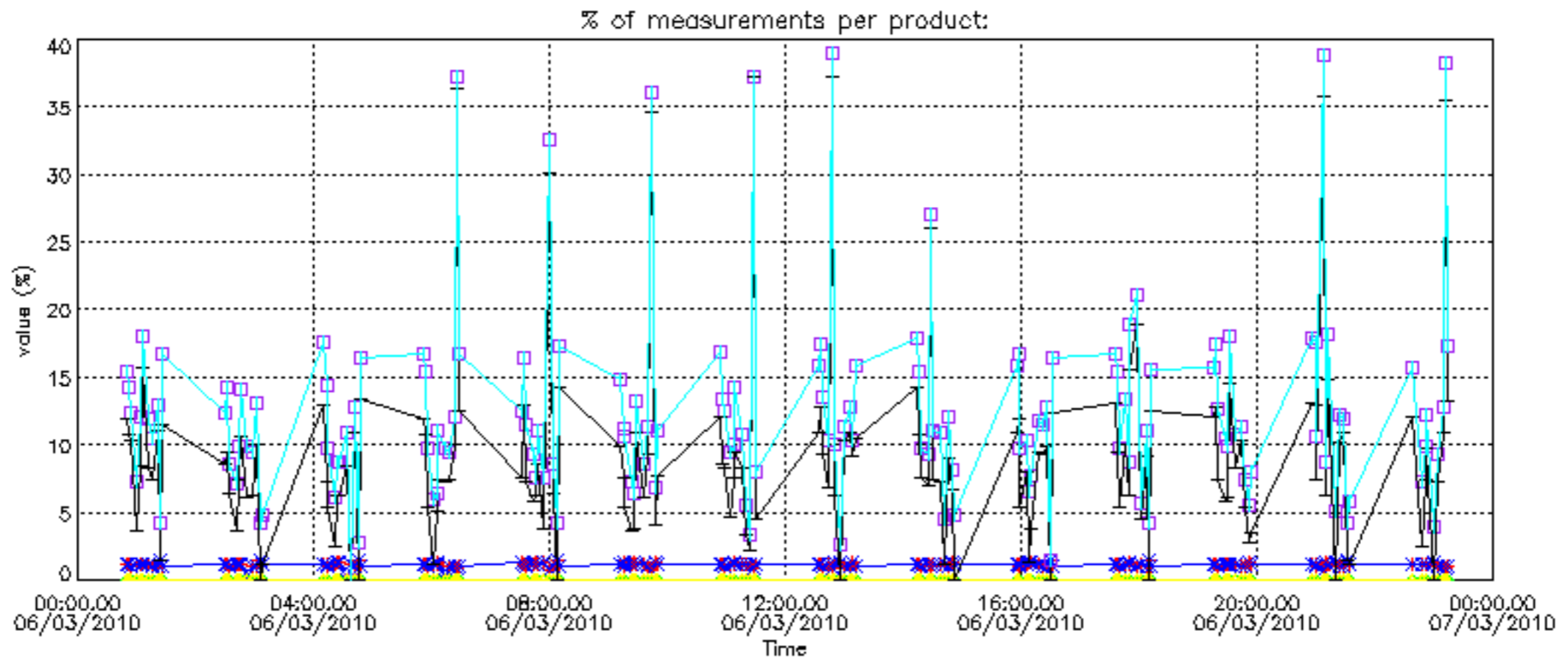
Percentage of flagged data per NO2 profile



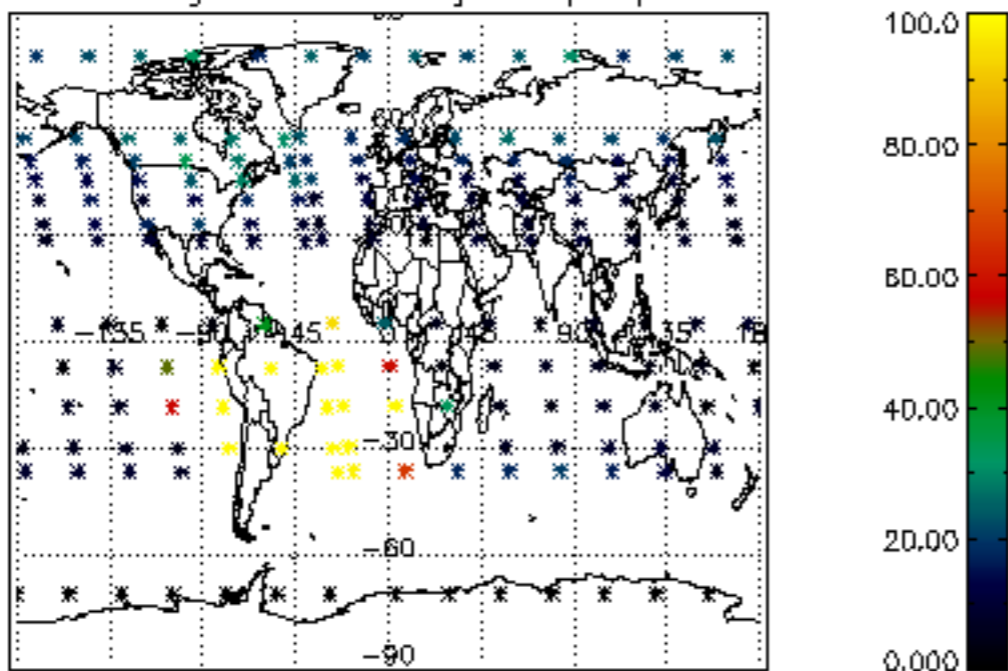
Percentage of flagged data per NO3 profile



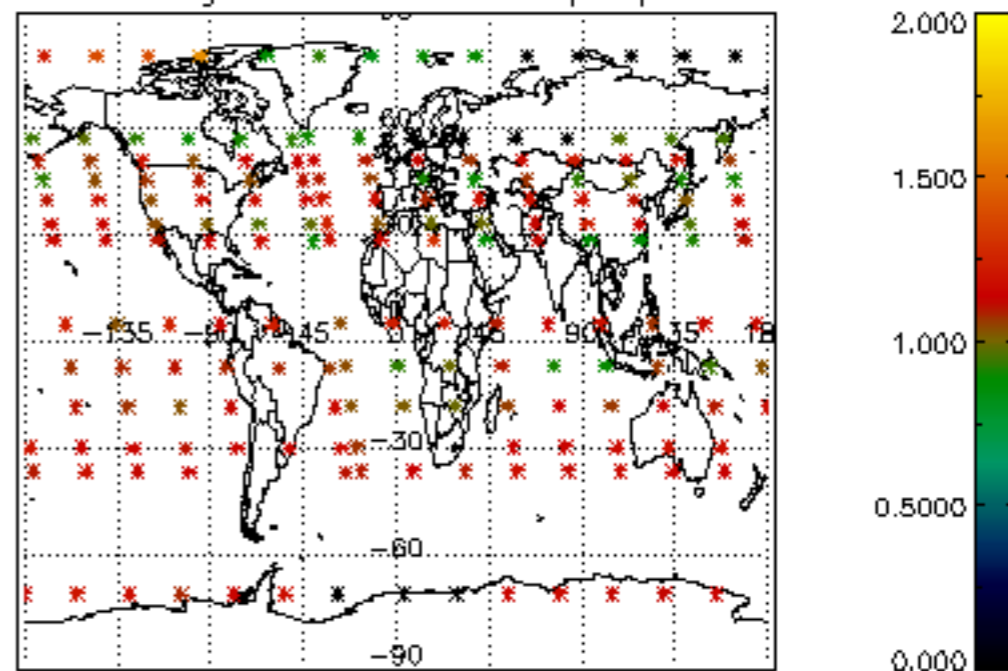




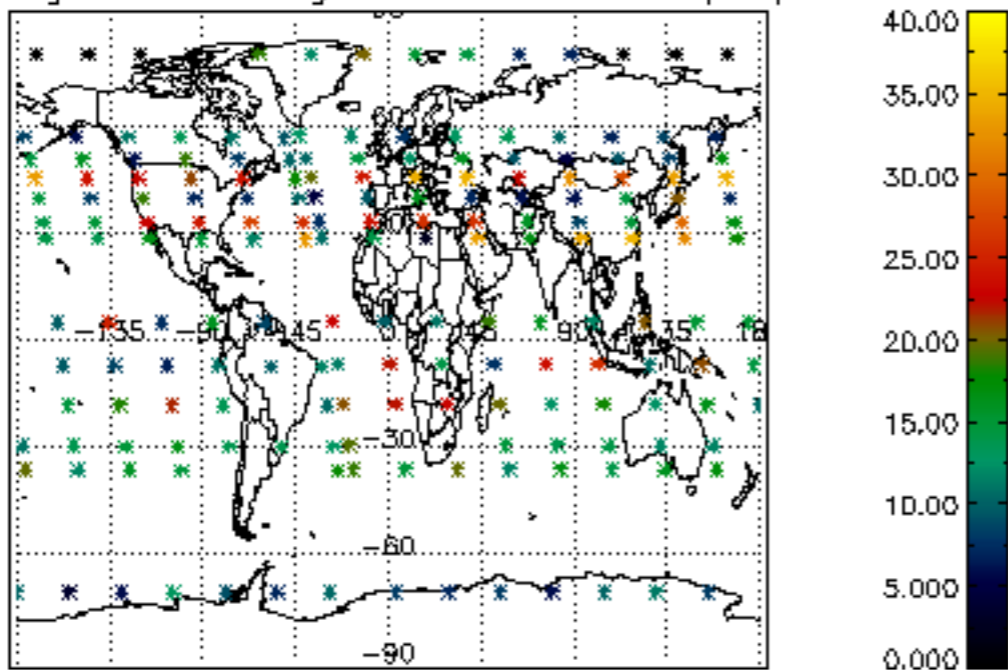
Percentage of cosmic ray hits per profile



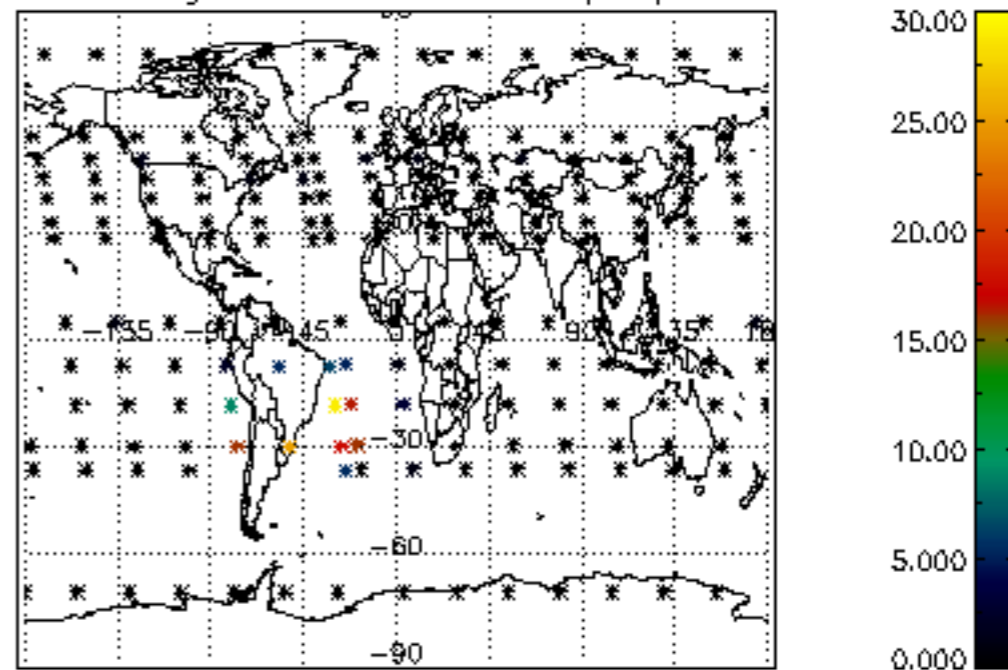
Percentage of datation errors per profile



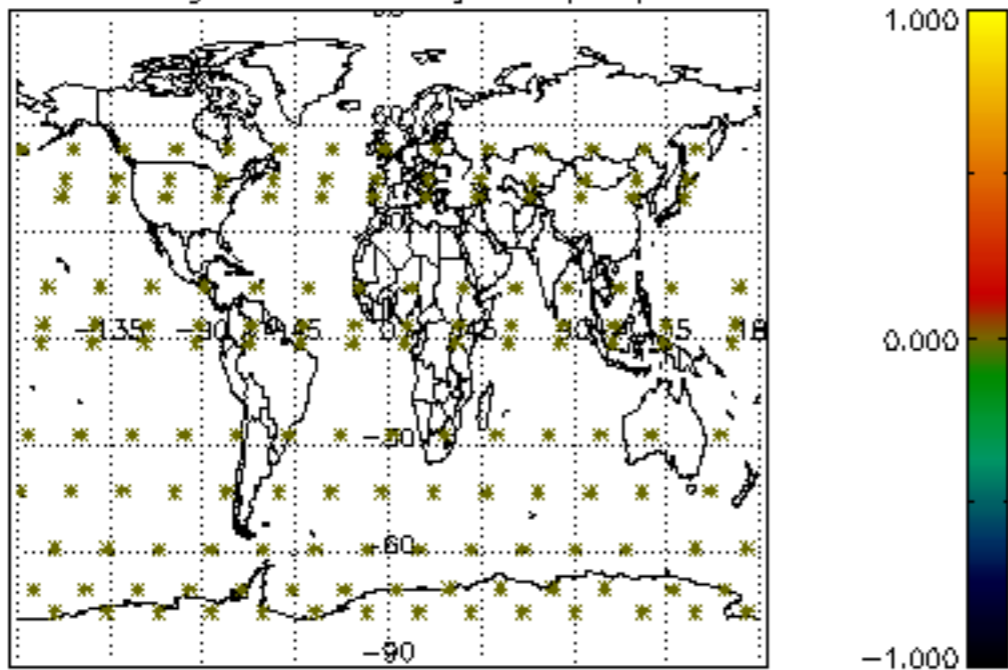
Percentage of star falling outside central band per profile



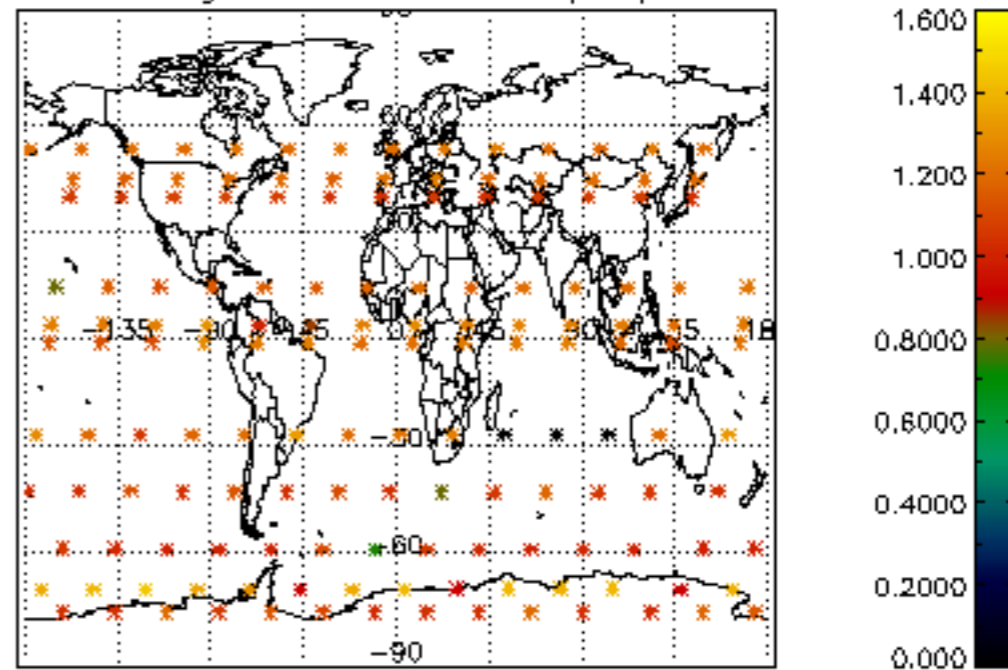
Percentage of saturation errors per profile



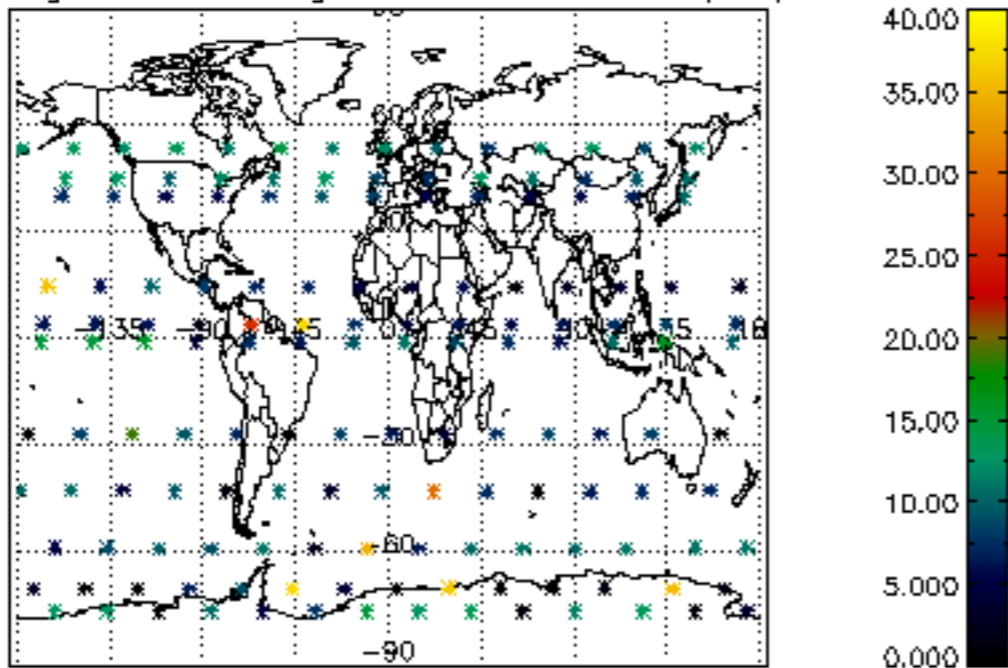
Percentage of cosmic ray hits per profile



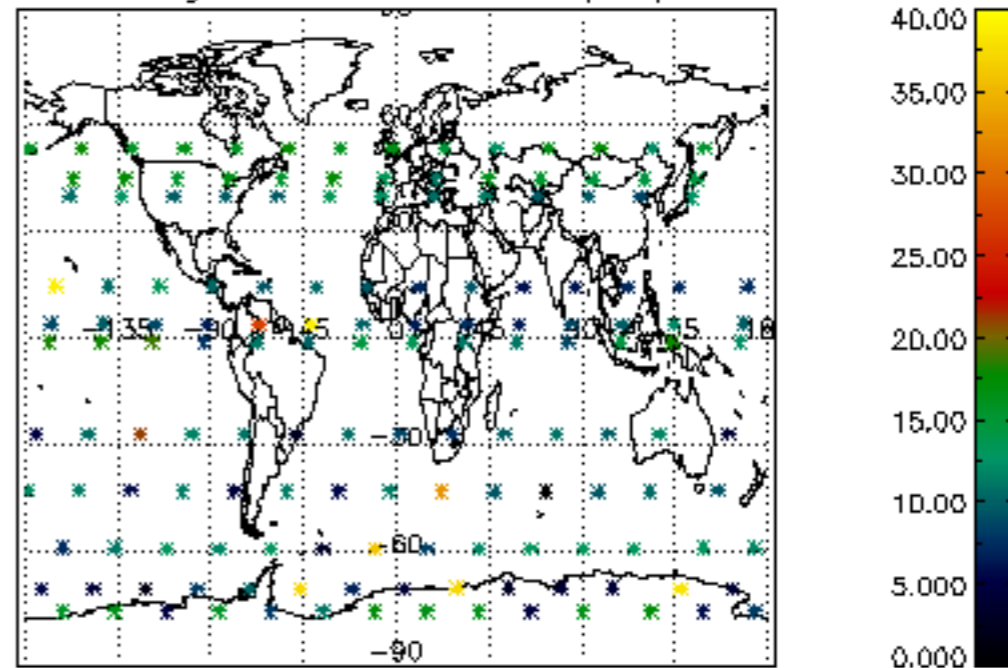
Percentage of datation errors per profile

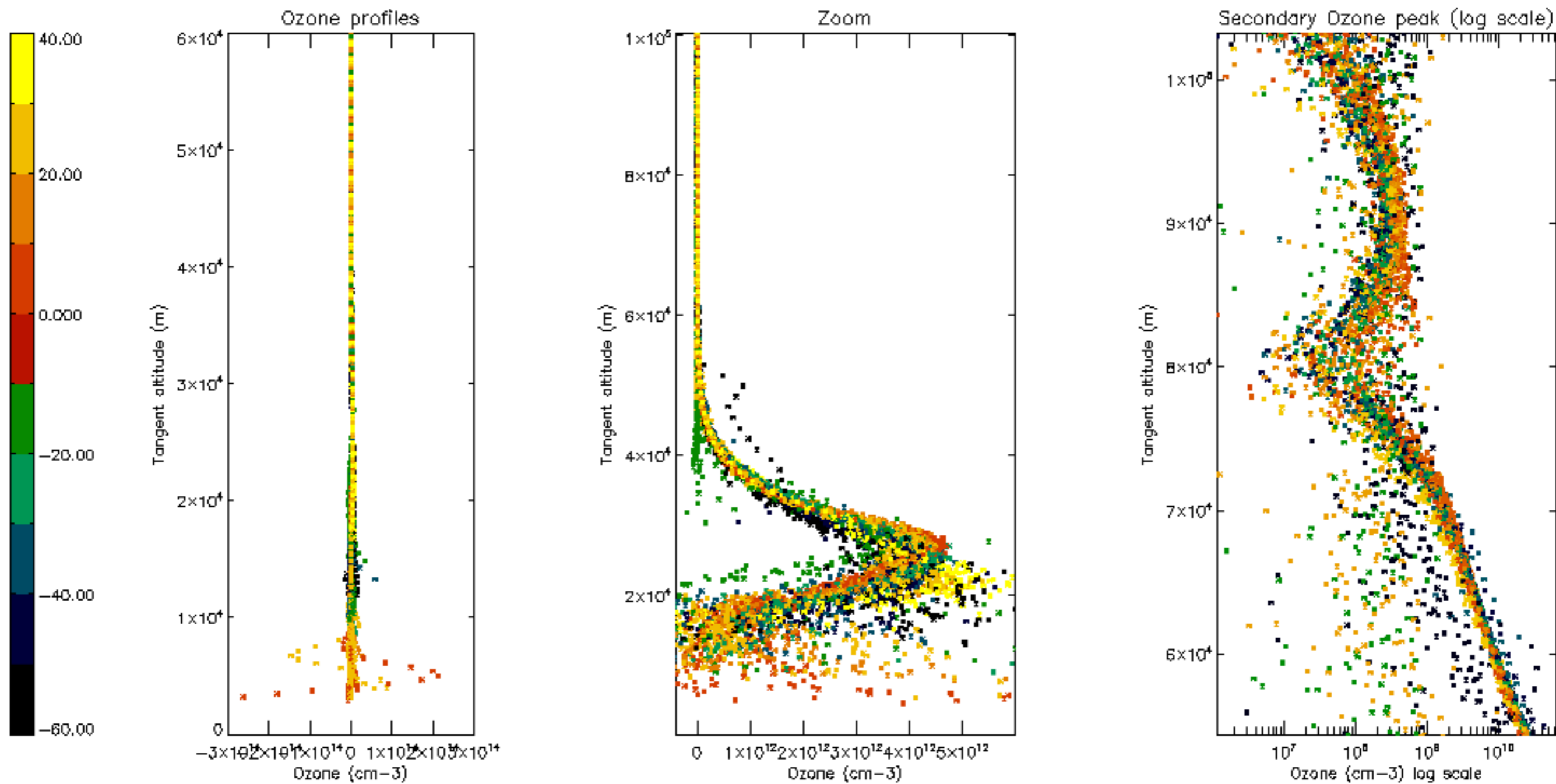


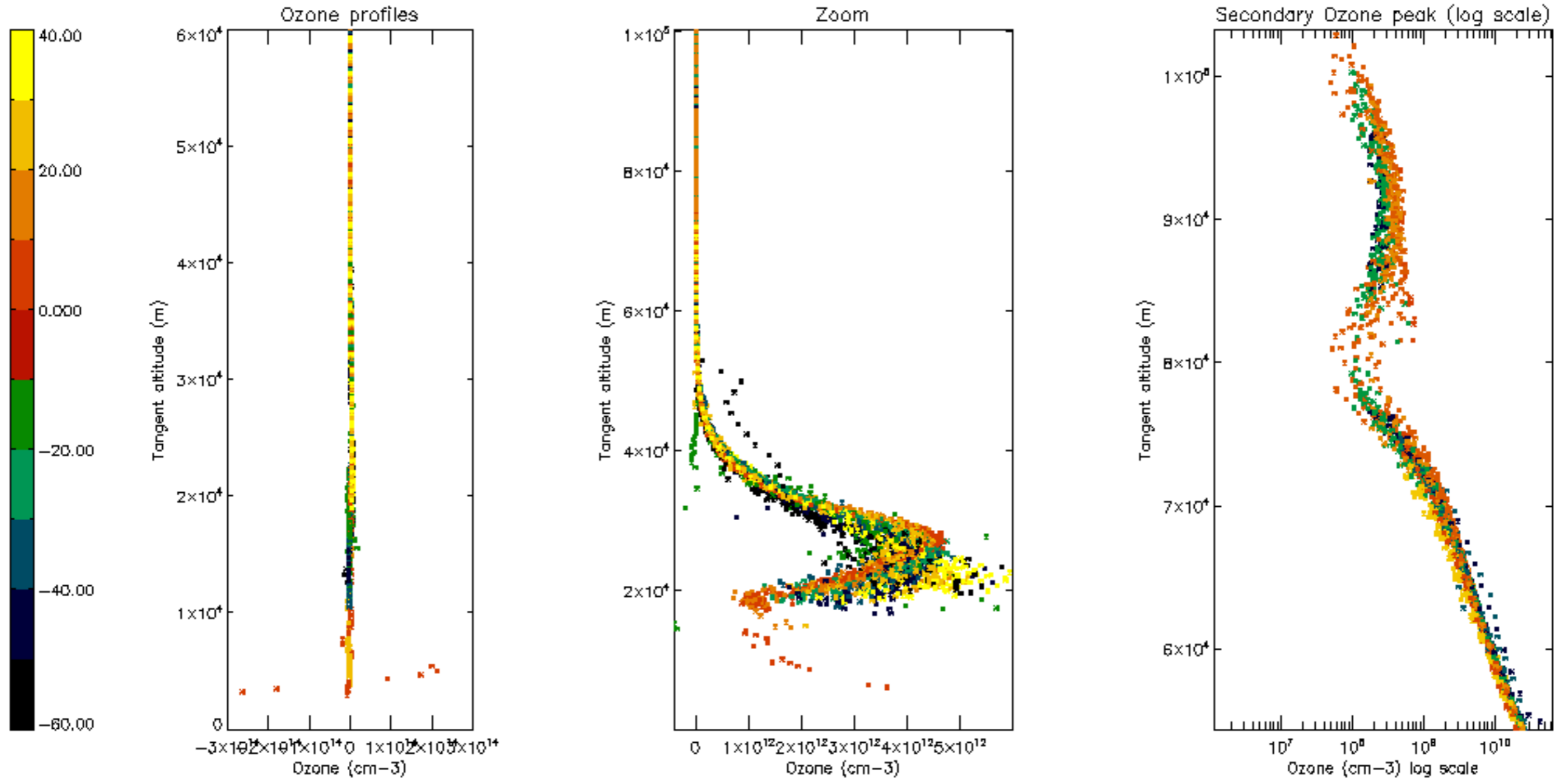
Percentage of star falling outside central band per profile

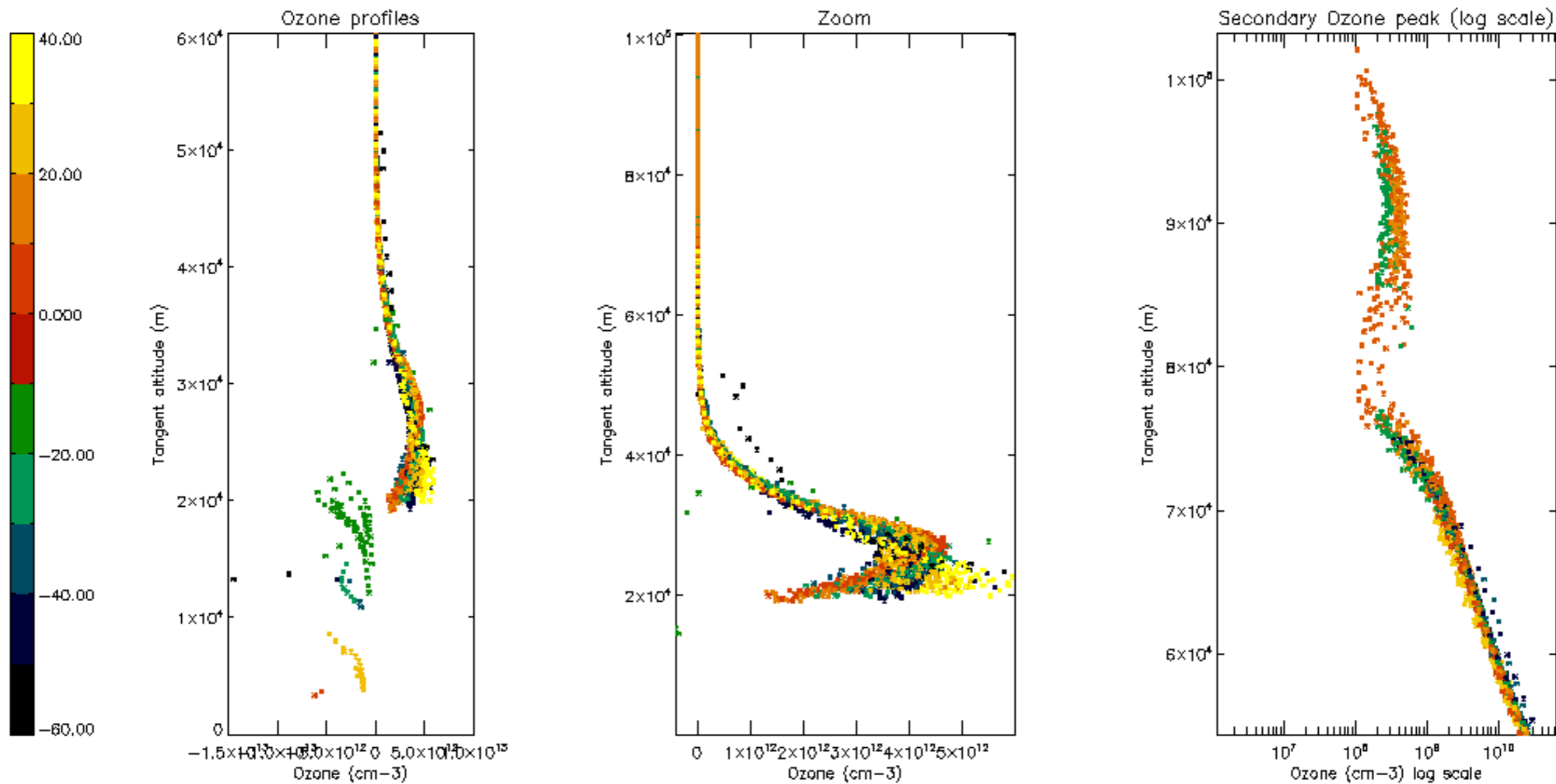


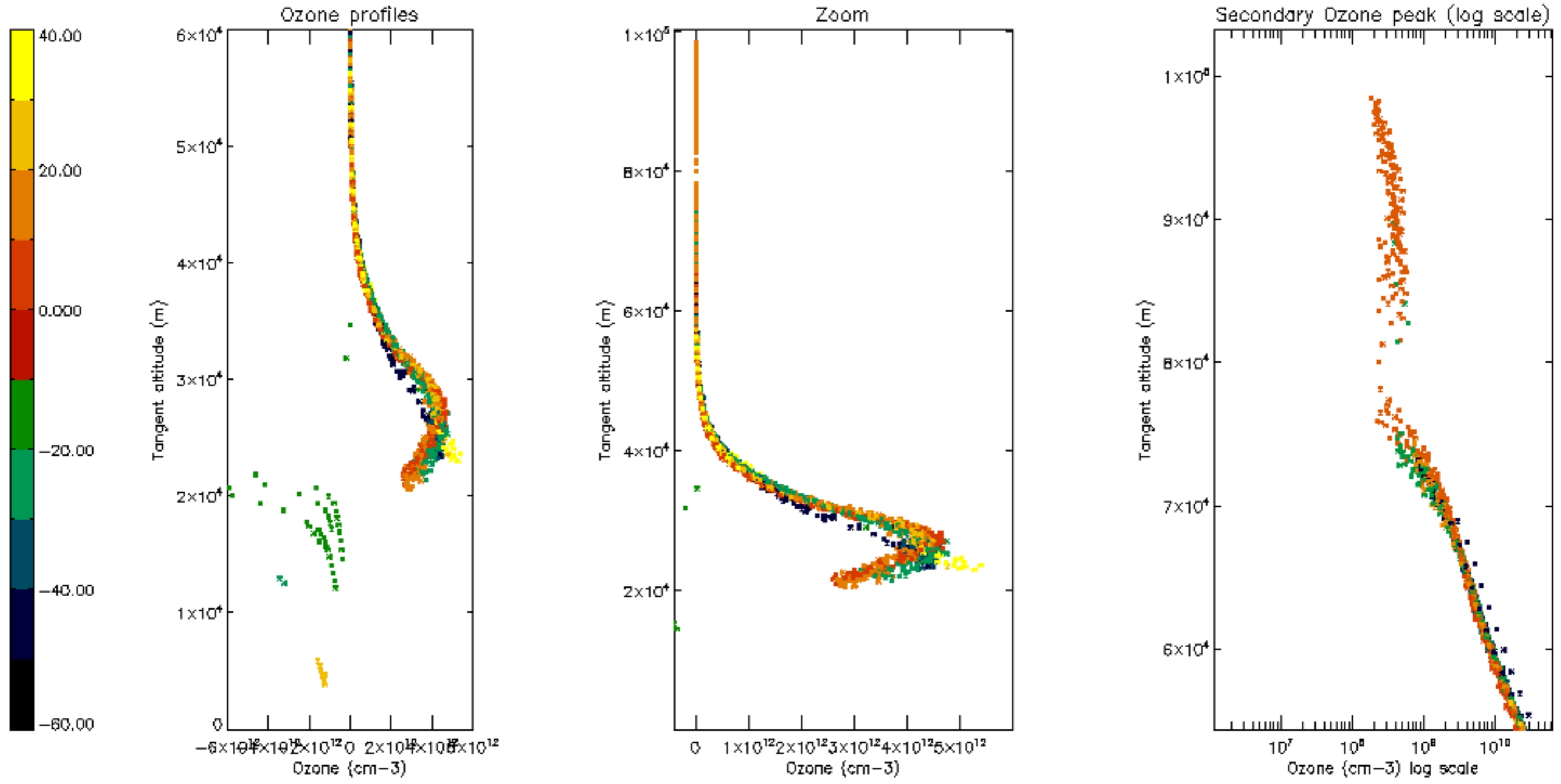
Percentage of saturation errors per profile

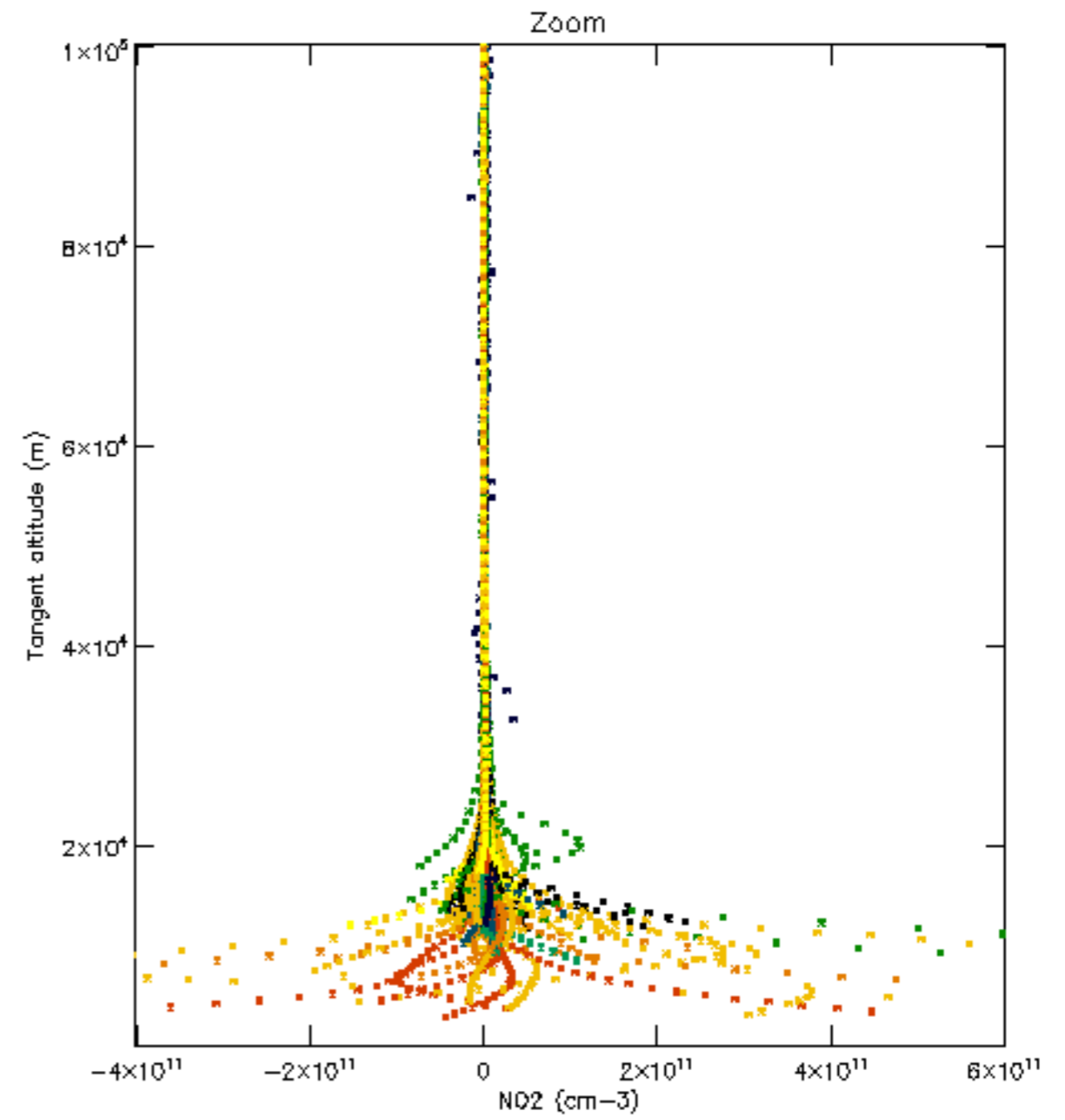
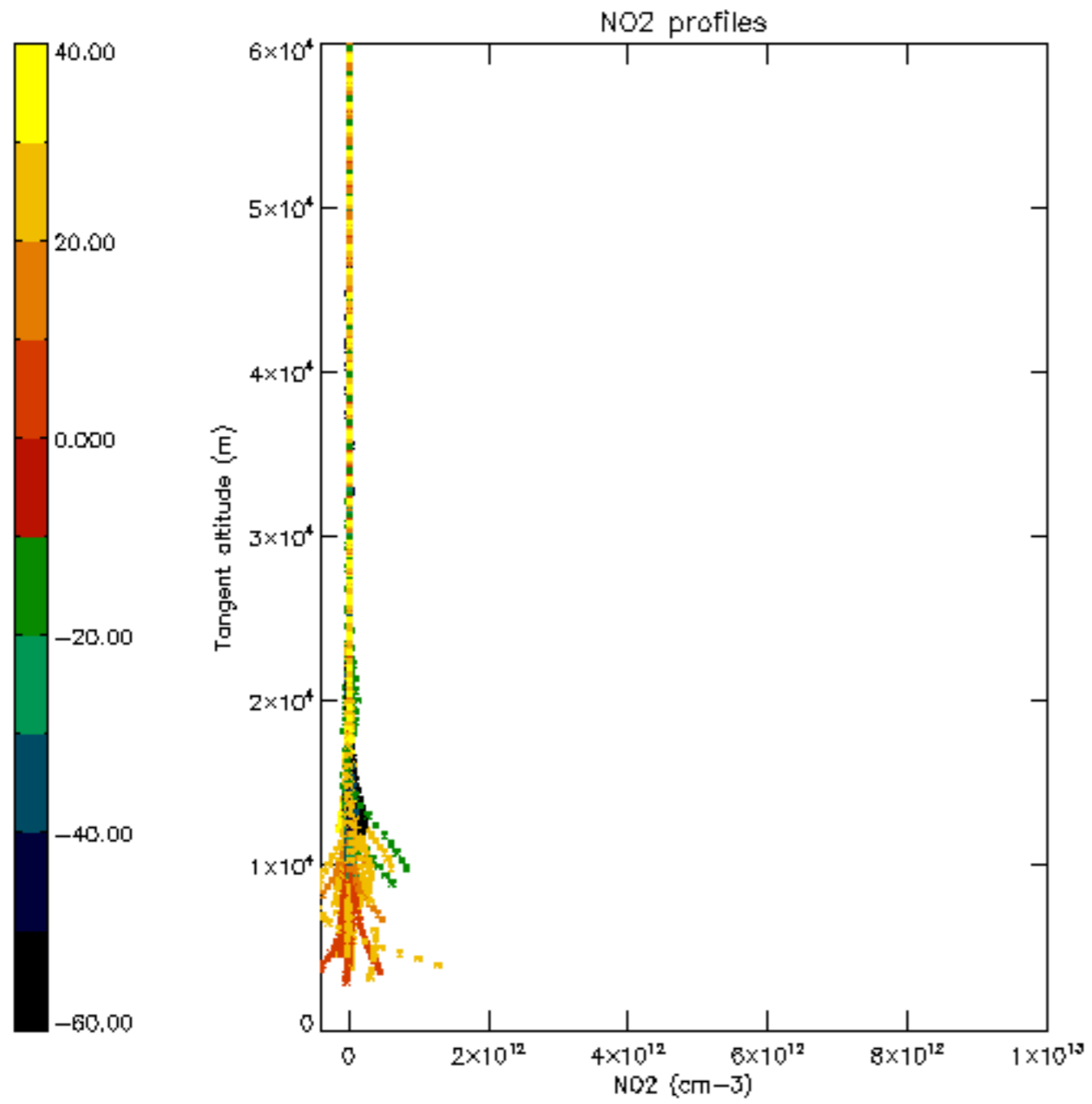


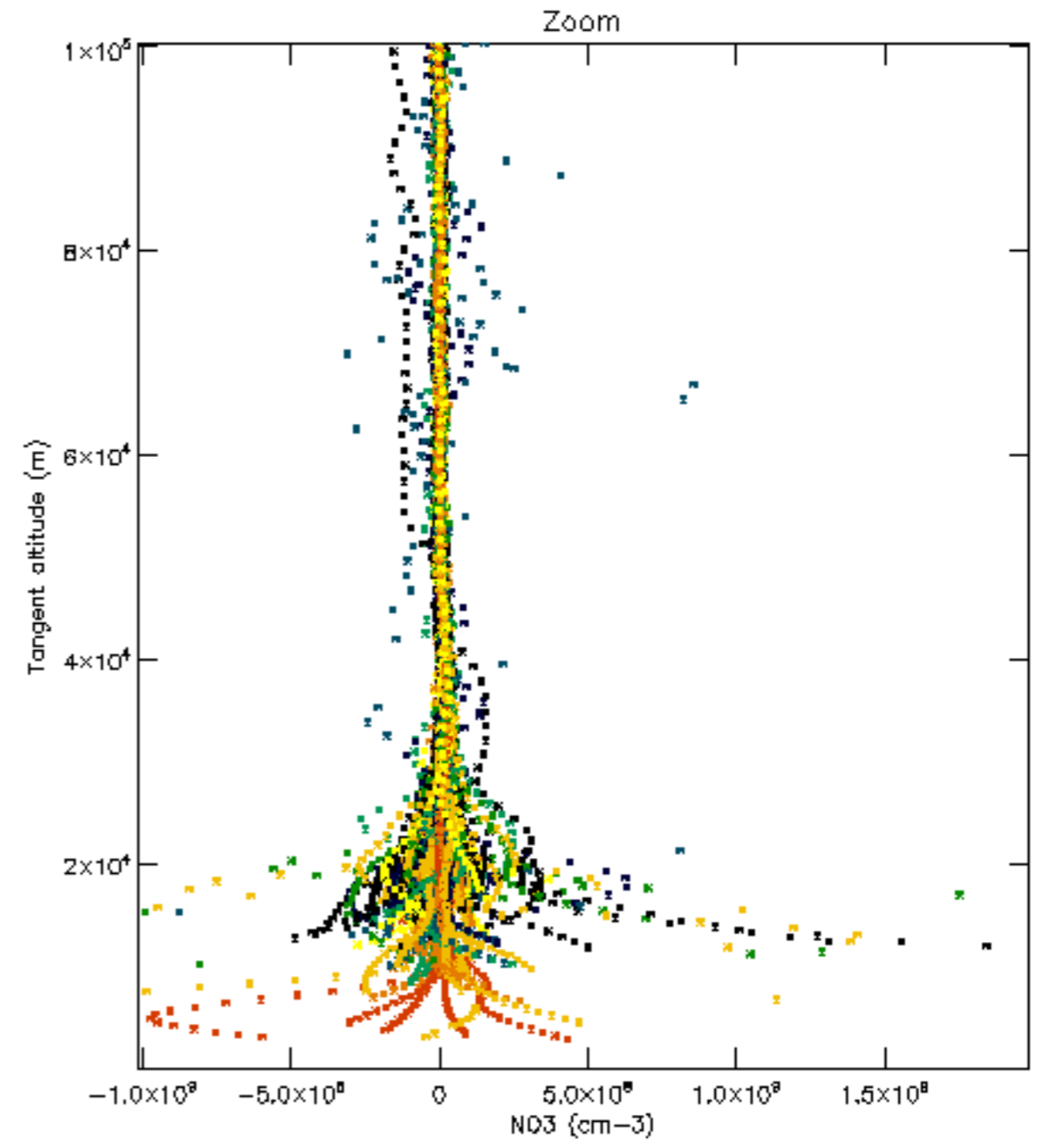
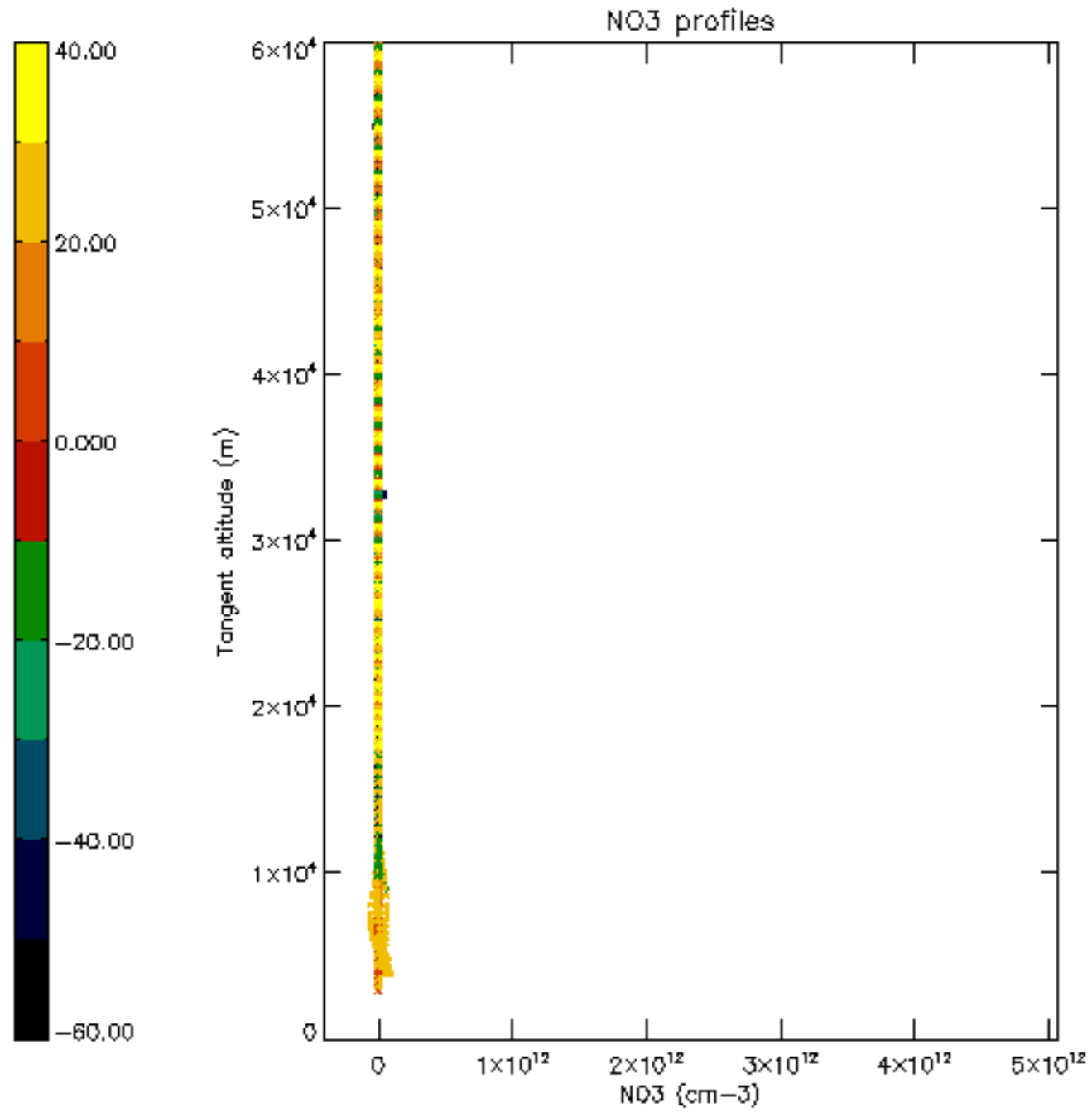


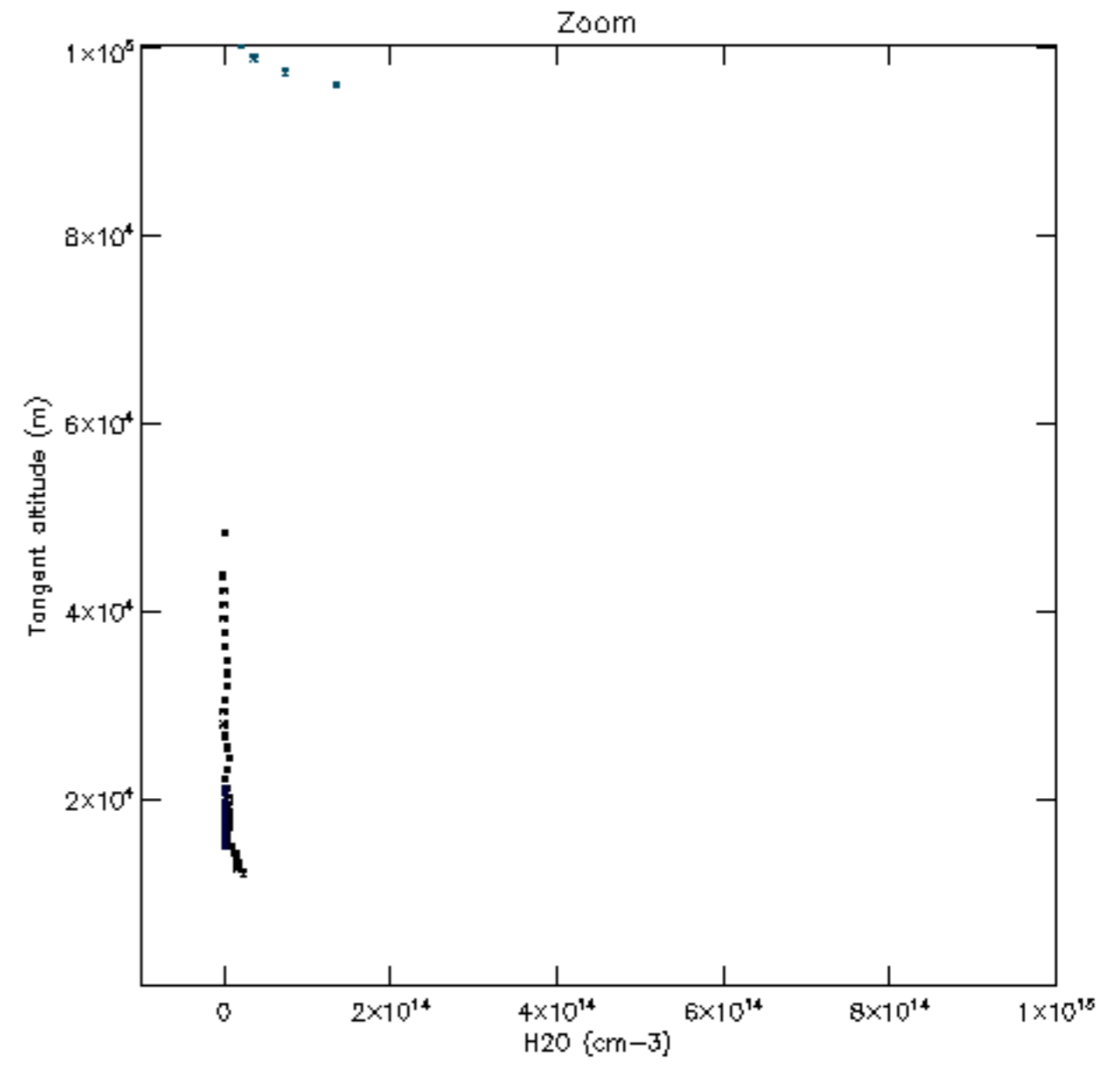
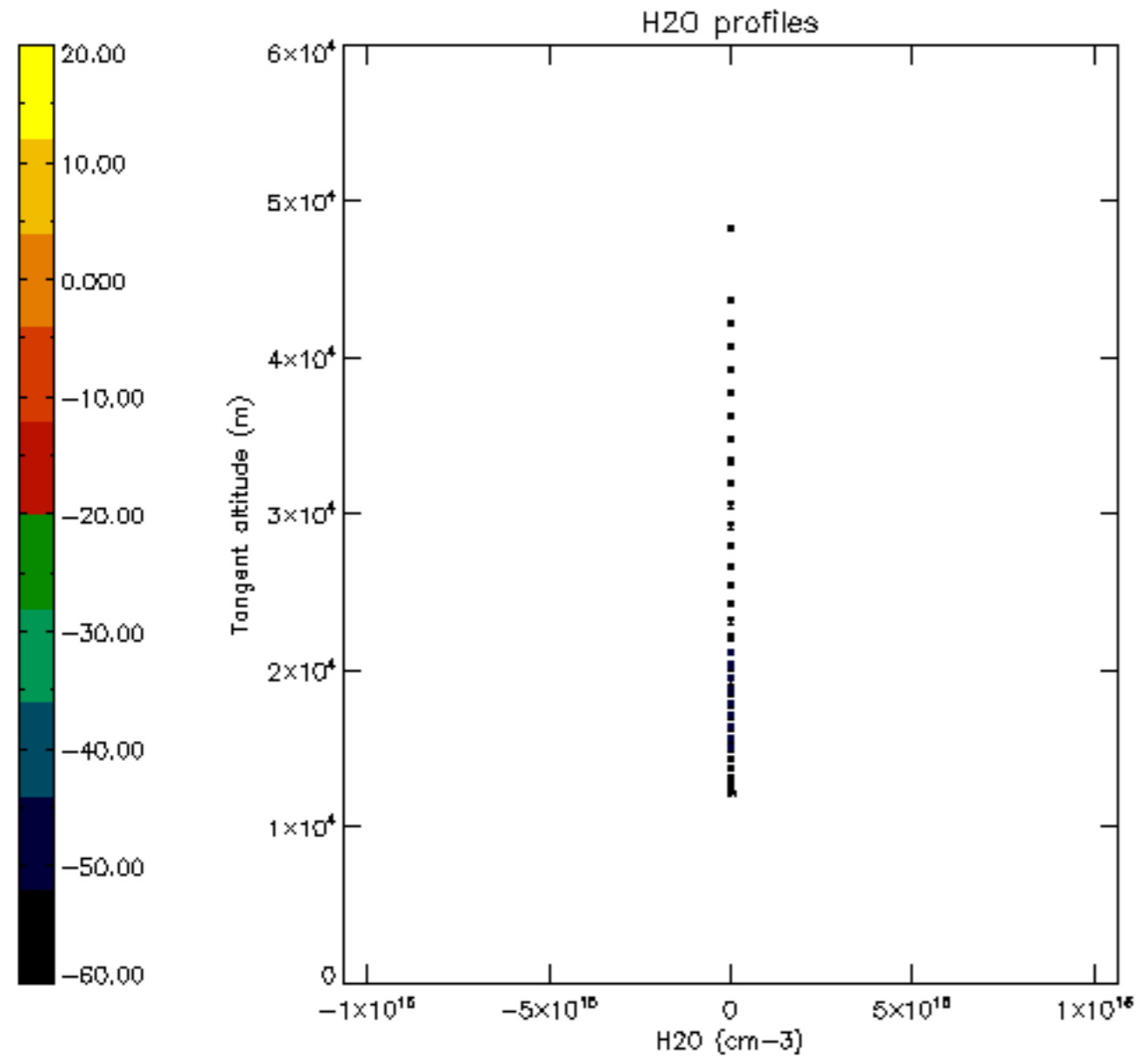


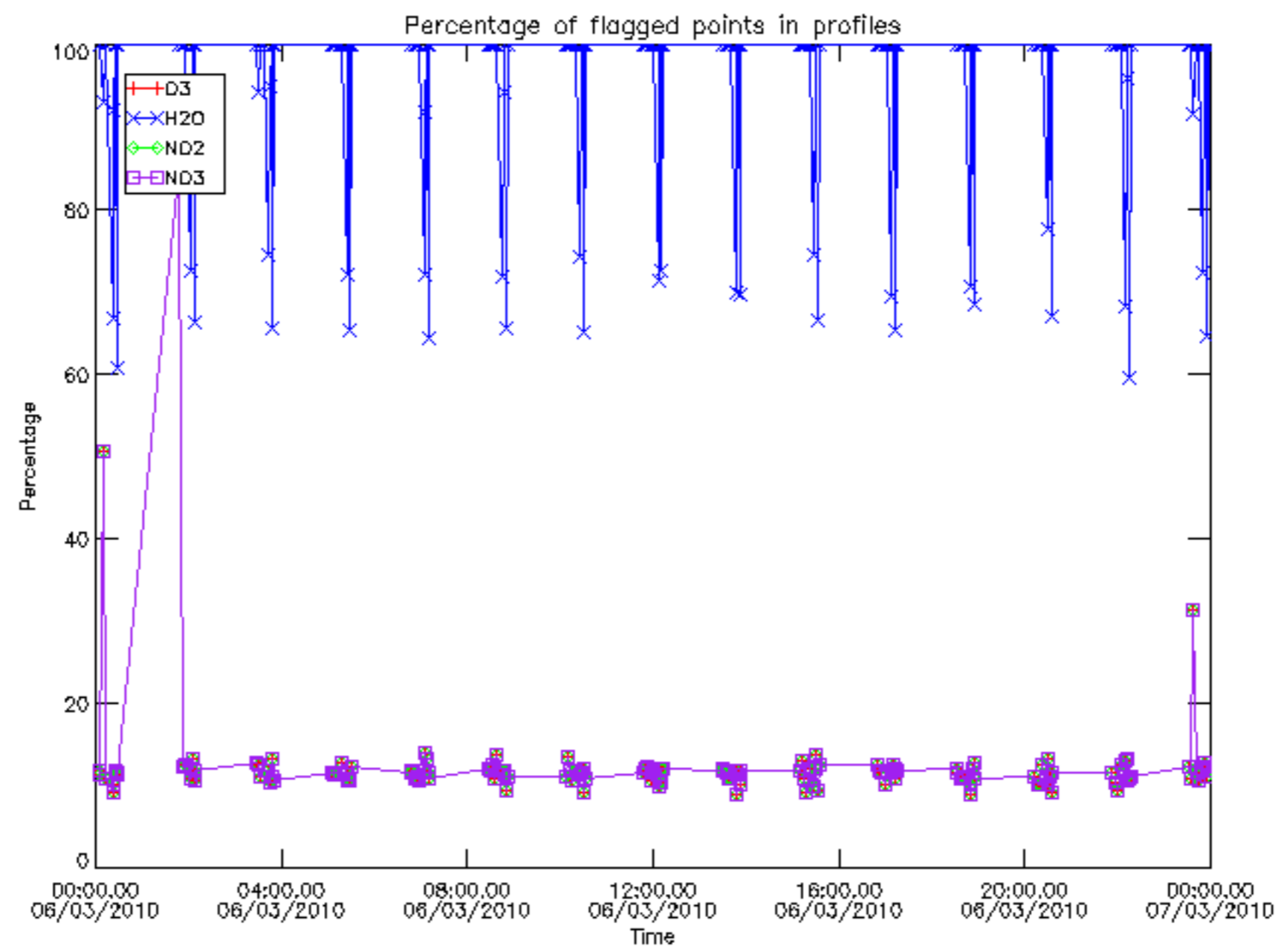




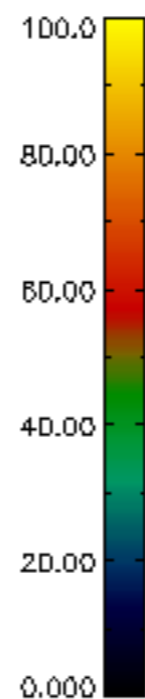
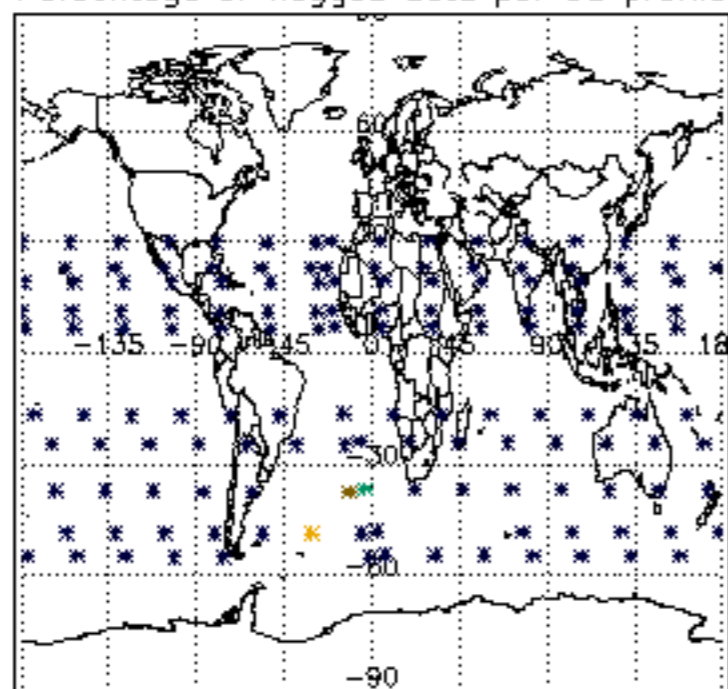




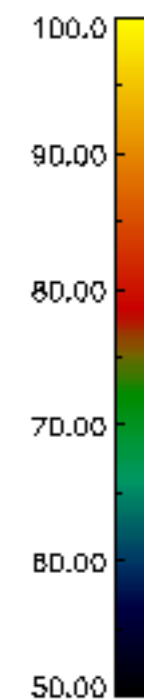
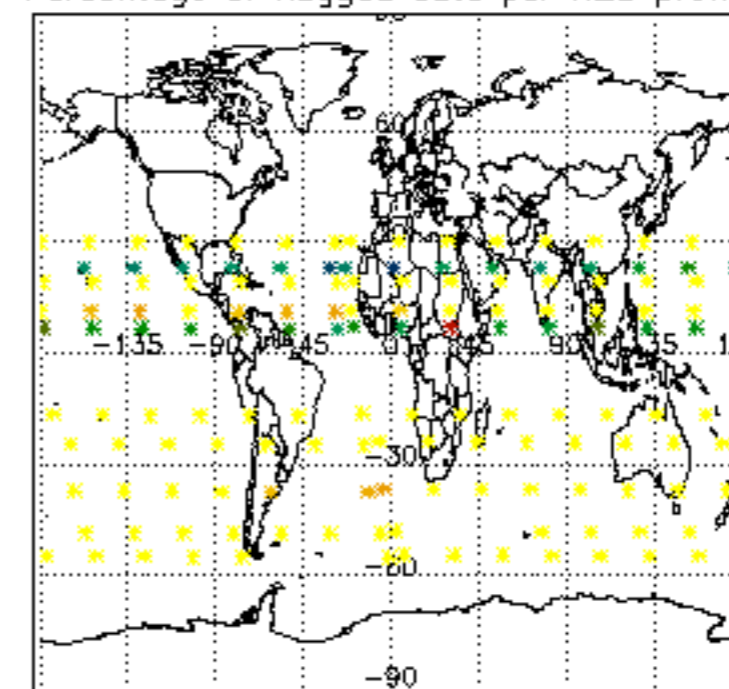




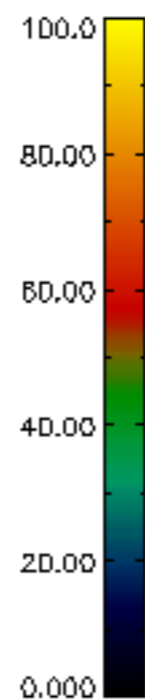
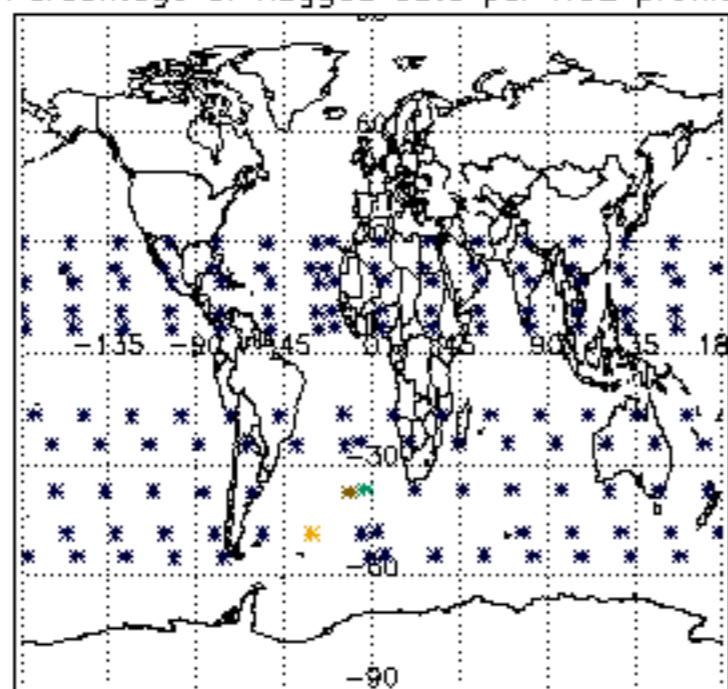
Percentage of flagged data per D3 profile



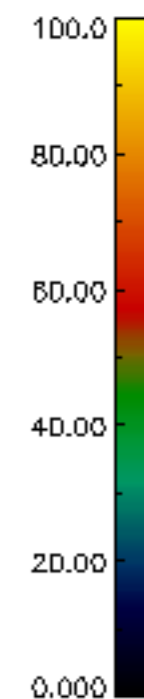
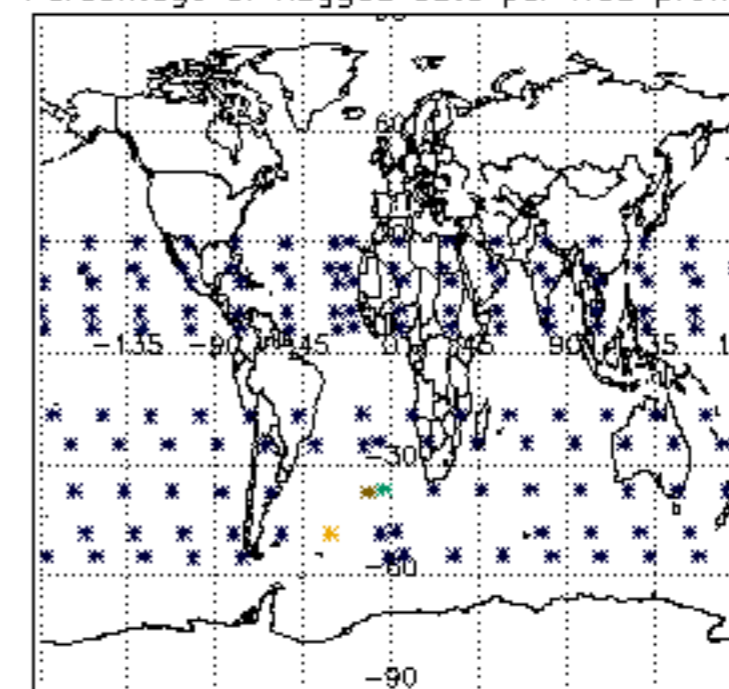
Percentage of flagged data per H2O profile

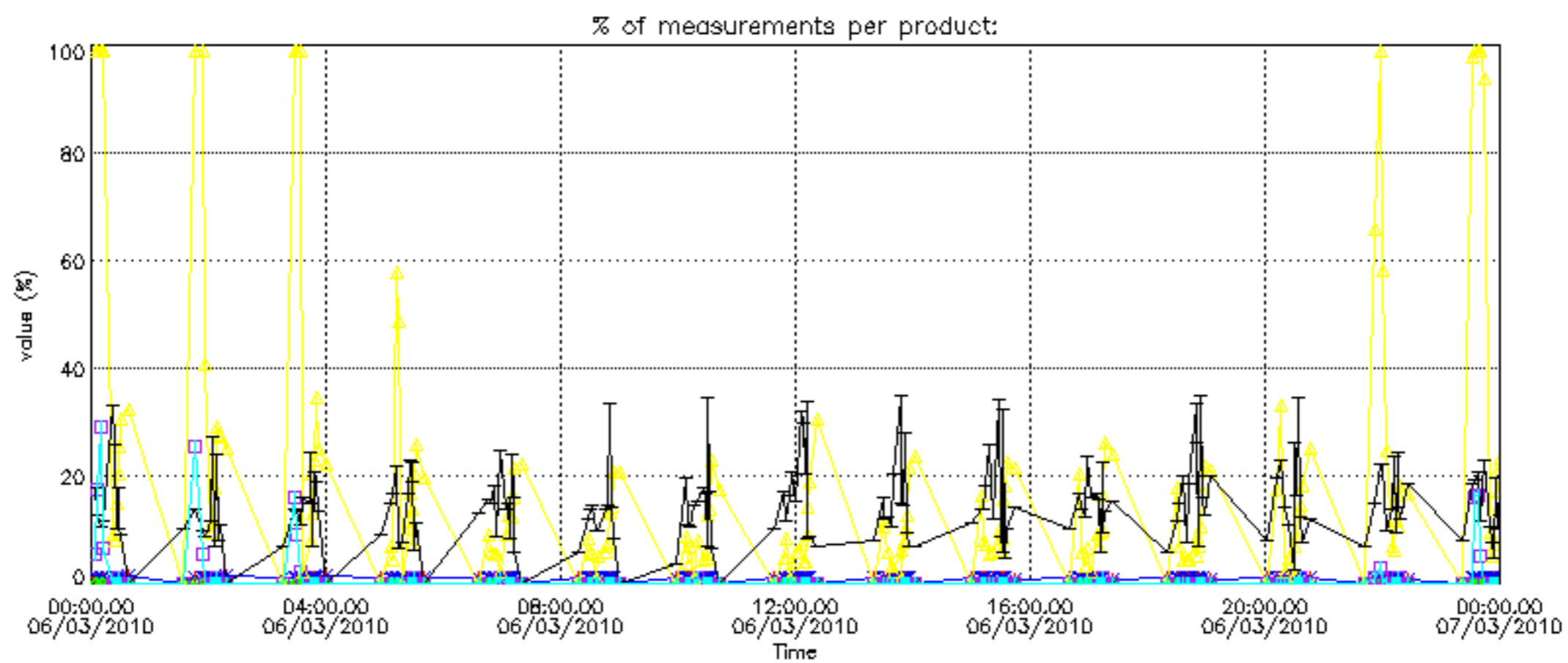
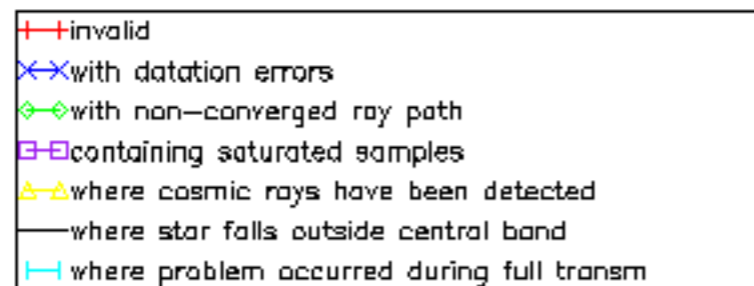


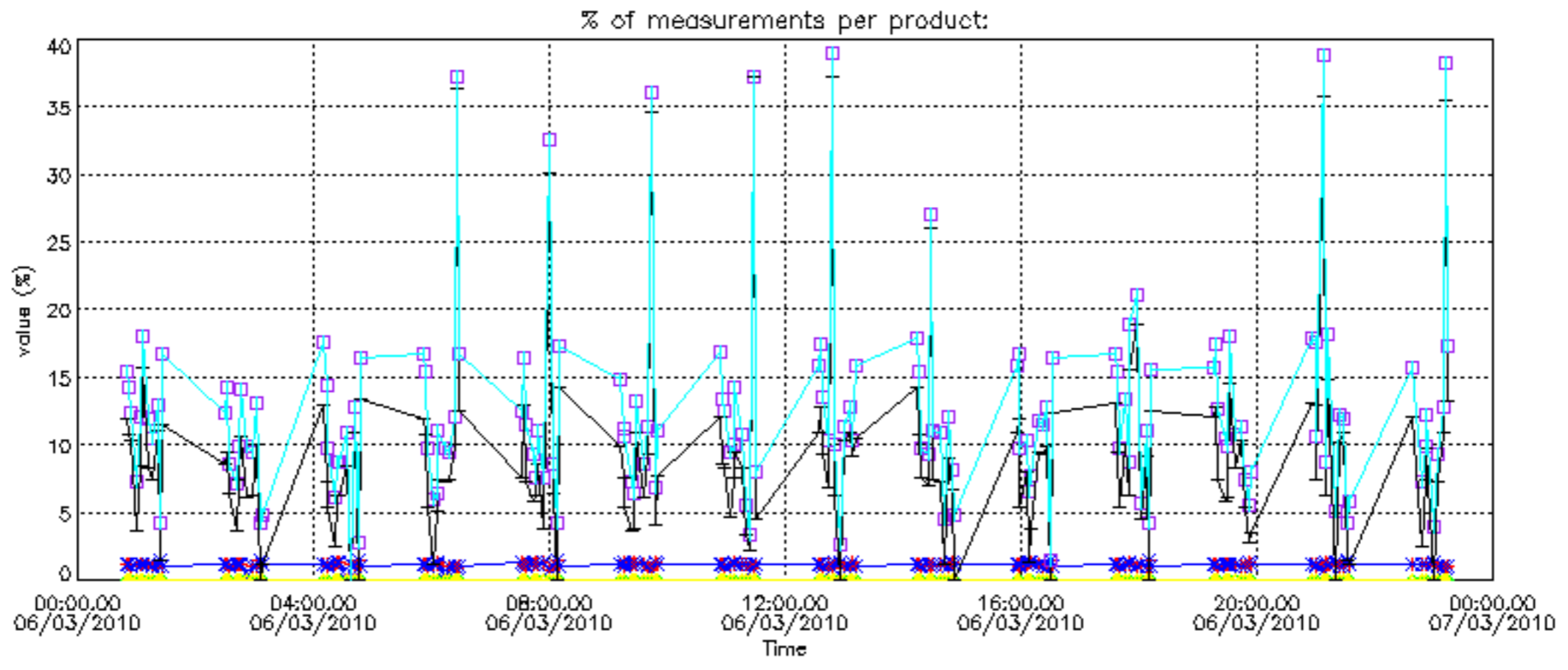
Percentage of flagged data per NO2 profile



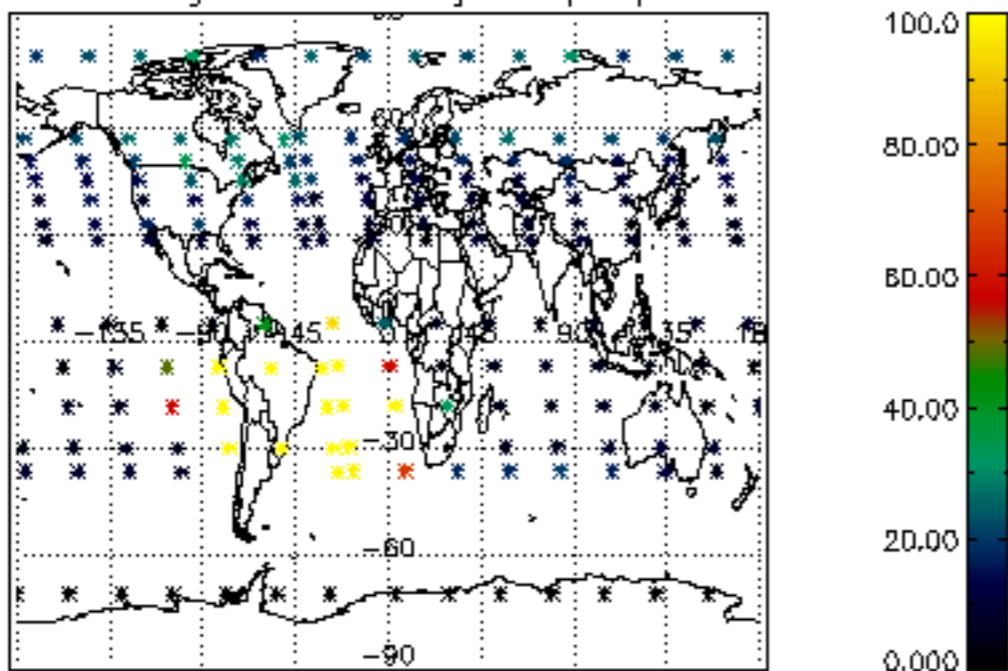
Percentage of flagged data per NO3 profile



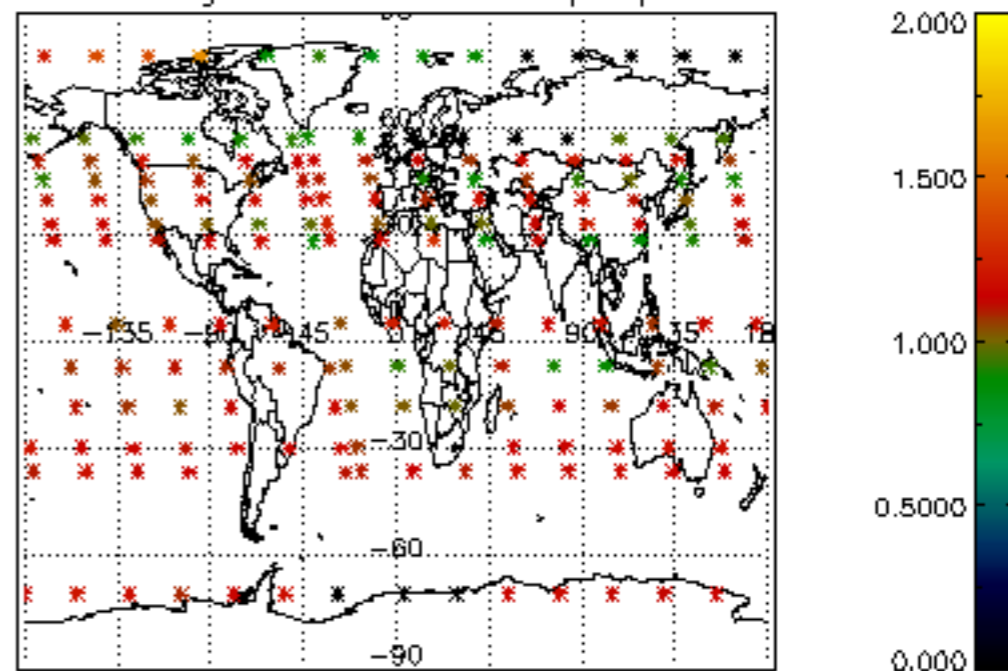




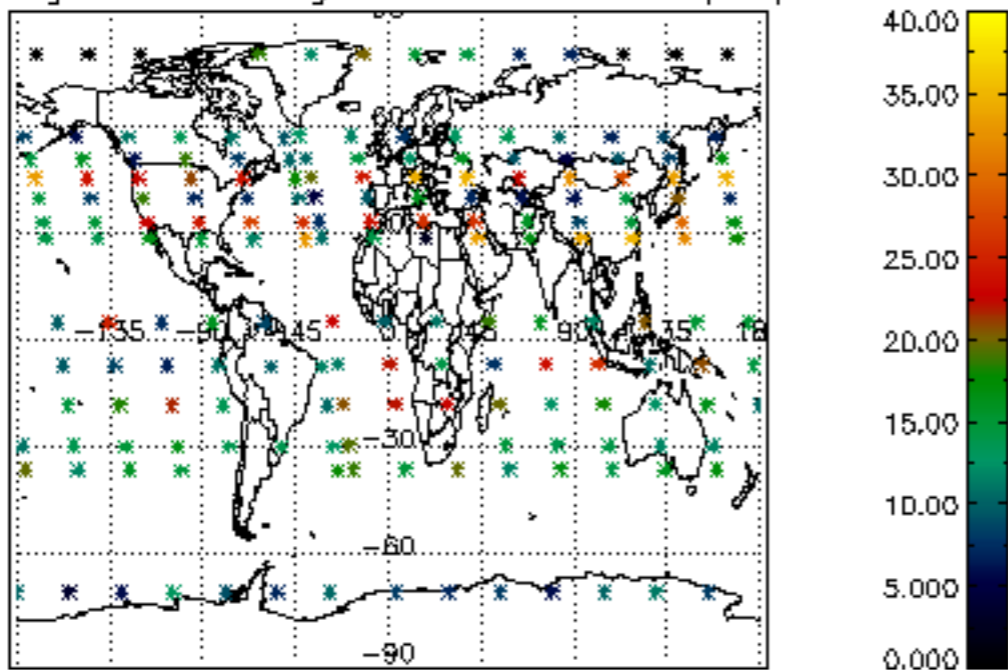
Percentage of cosmic ray hits per profile



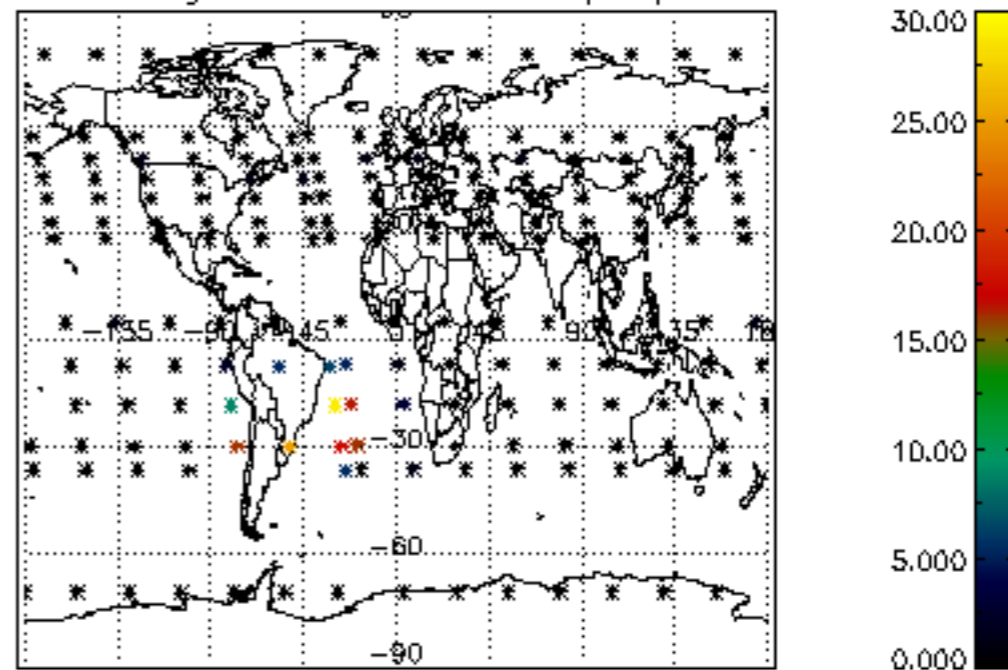
Percentage of datation errors per profile



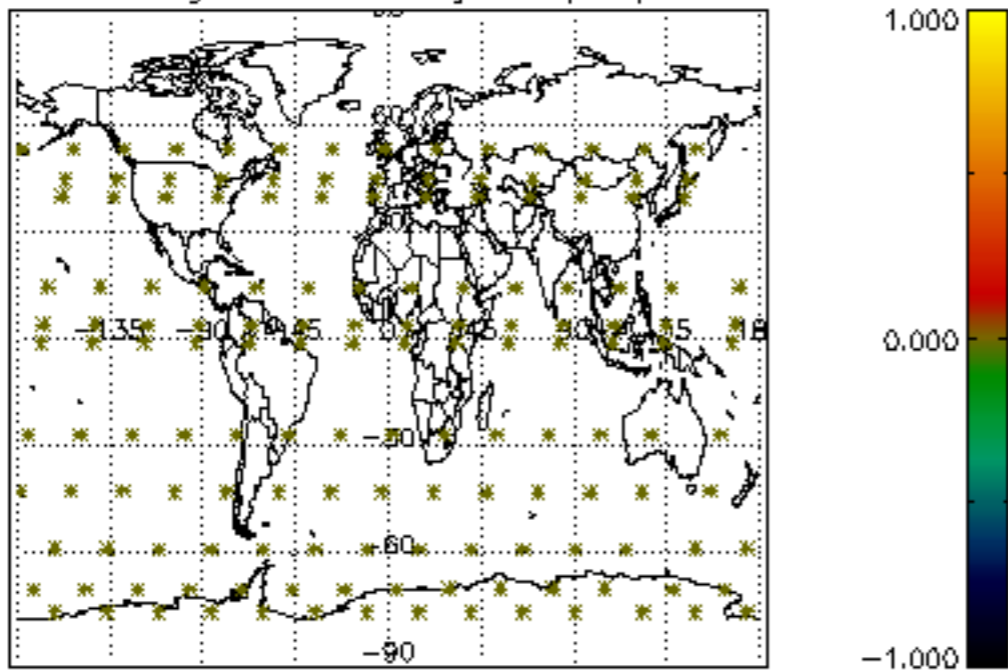
Percentage of star falling outside central band per profile



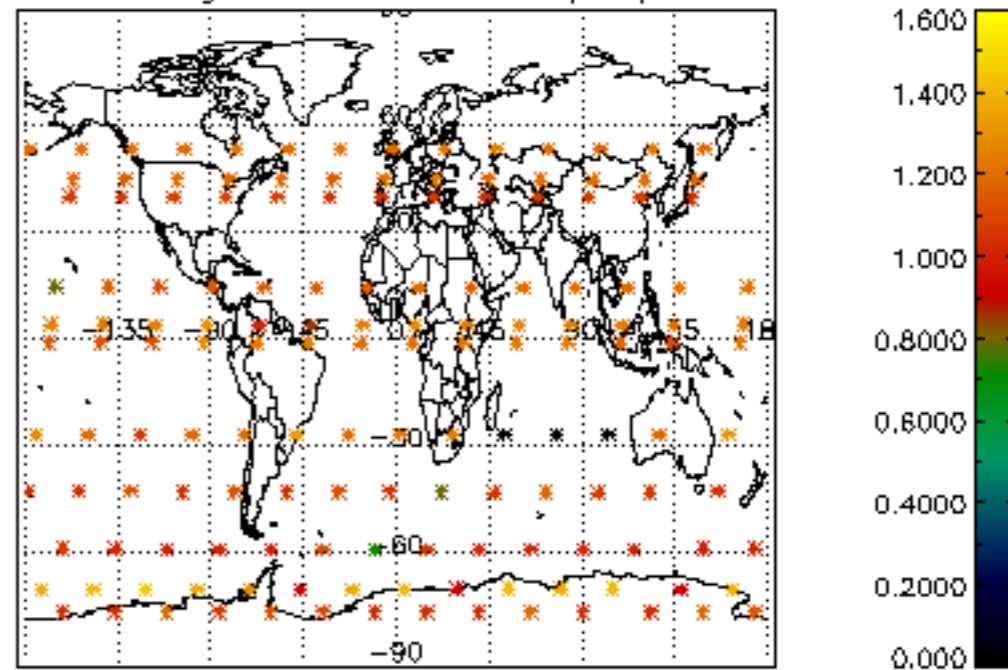
Percentage of saturation errors per profile



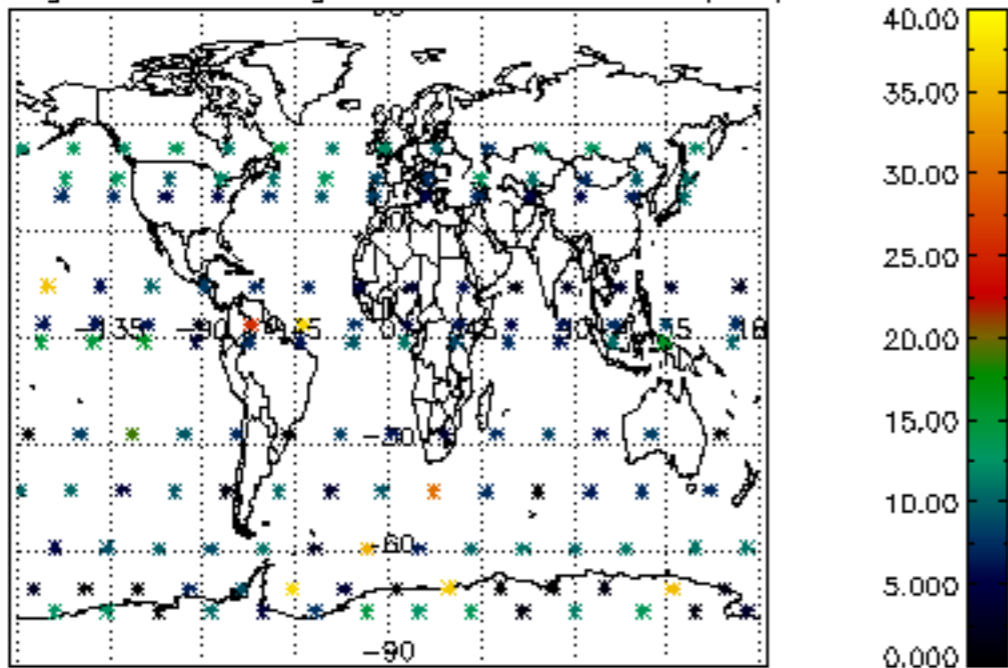
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

