

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.

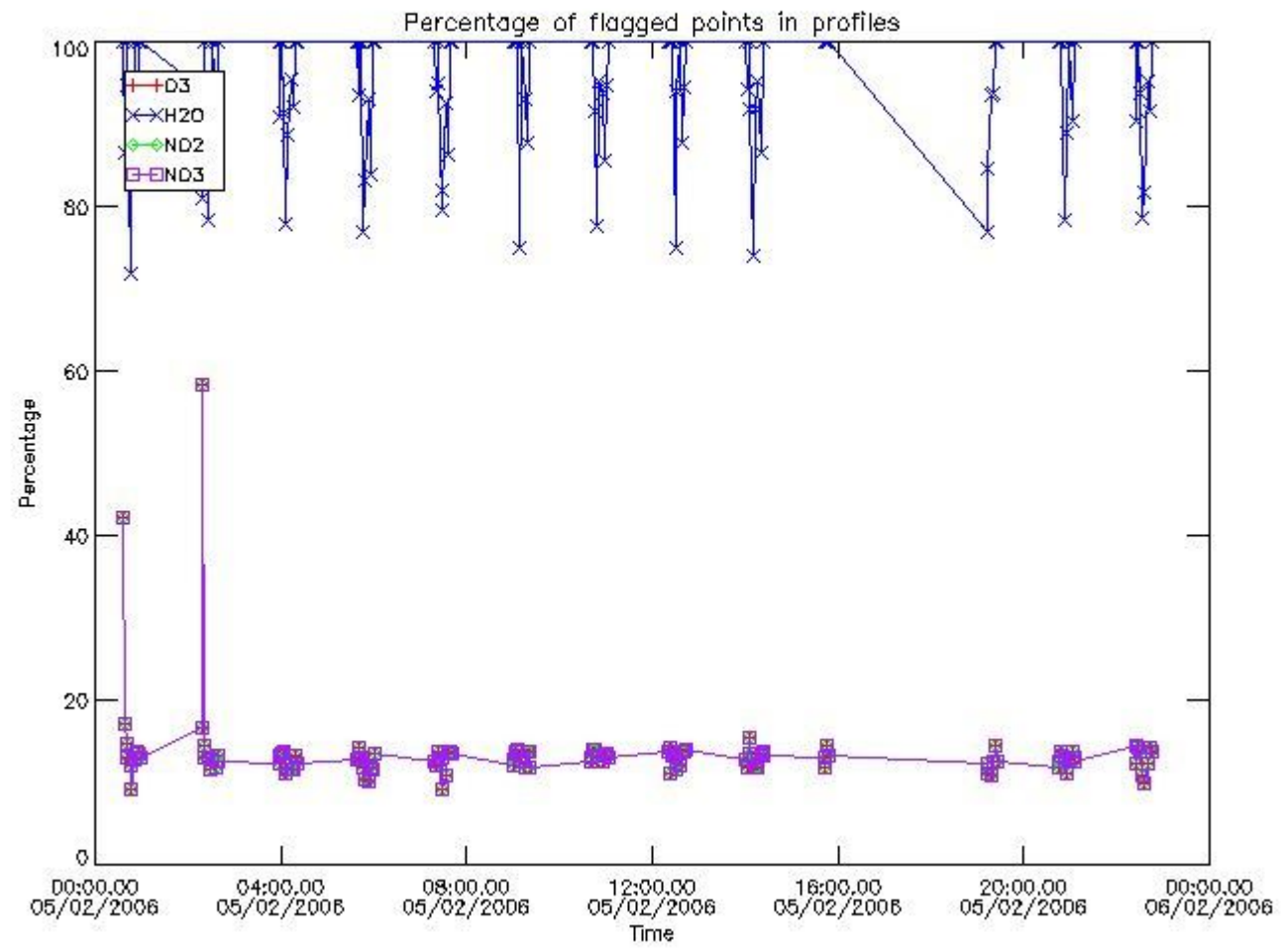
Item	Value
Time of report generation	22APR2013 15:21:52
Data source version	GOMOS/6.01
Start time of products	05-02-2006 (05FEB2006 00:00:00)
Stop time of products	06-02-2006 (06FEB2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	331
Nb of prods with errors	0

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__2PRFIN20060205_001213_000000352044_00474_20568_8178.N1	05-FEB-2006 00:12:13	Bright	34.500	144	18Del Cyg	2.8600	11000.	69	20568	No
2	GOM_NL__2PRFIN20060205_001437_000000342044_00474_20568_8179.N1	05-FEB-2006 00:14:37	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	20568	No
3	GOM_NL__2PRFIN20060205_002118_000000332044_00474_20568_8180.N1	05-FEB-2006 00:21:18	Bright	32.500	168	17Zet Aql	2.9860	11000.	65	20568	No
4	GOM_NL__2PRFIN20060205_003352_000000442044_00474_20568_8181.N1	05-FEB-2006 00:33:52	Twilight	43.500	116	19Del Sgr	2.7000	4100.0	87	20568	No
5	GOM_NL__2PRFIN20060205_003503_000000432044_00474_20568_8182.N1	05-FEB-2006 00:35:03	Twilight	42.500	38	20Eps Sgr	1.8360	11000.	85	20568	No
6	GOM_NL__2PRFIN20060205_003643_000000422044_00474_20568_8183.N1	05-FEB-2006 00:36:43	Dark	42.000	25	35Lam Sco	1.6200	28000.	84	20568	No
7	GOM_NL__2PRFIN20060205_003808_000000422044_00474_20568_8184.N1	05-FEB-2006 00:38:08	Dark	41.500	40	The Sco	1.8590	7100.0	83	20568	No
8	GOM_NL__2PRFIN20060205_004000_000000382044_00474_20568_8185.N1	05-FEB-2006 00:40:00	Dark	38.000	147	Alp Ara	2.8770	26000.	76	20568	No
9	GOM_NL__2PRFIN20060205_004132_000000392044_00474_20568_8186.N1	05-FEB-2006 00:41:32	Dark	39.000	141	Bet Ara	2.8400	4600.0	78	20568	No
10	GOM_NL__2PRFIN20060205_004521_000000472044_00475_20569_8160.N1	05-FEB-2006 00:45:21	Dark	46.500	43	Alp TrA	1.9100	4250.0	93	20569	No
11	GOM_NL__2PRFIN20060205_004707_000000562044_00475_20569_8161.N1	05-FEB-2006 00:47:07	Dark	55.500	4	Alp1Cen	-0.010000	5800.0	111	20569	No
12	GOM_NL__2PRFIN20060205_005142_000000402044_00475_20569_8162.N1	05-FEB-2006 00:51:42	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	20569	No
13	GOM_NL__2PRFIN20060205_005456_000000372044_00475_20569_8163.N1	05-FEB-2006 00:54:56	Dark	37.000	29	Bet Car	1.6720	10200.	74	20569	No
14	GOM_NL__2PRFIN20060205_005722_000000382044_00475_20569_8164.N1	05-FEB-2006 00:57:22	Dark	38.000	71	lot Car	2.2460	7700.0	76	20569	No
15	GOM_NL__2PRFIN20060205_005905_000000402044_00475_20569_8165.N1	05-FEB-2006 00:59:05	Dark	39.500	46	Del Vel	1.9540	10600.	79	20569	No
16	GOM_NL__2PRFIN20060205_010134_000000382044_00475_20569_8166.N1	05-FEB-2006 01:01:34	Straylight	38.000	34	Gam2Vel	1.7930	23000.	76	20569	No
17	GOM_NL__2PRFIN20060205_010338_000000392044_00475_20569_8167.N1	05-FEB-2006 01:03:38	Straylight	38.500	70	Zet Pup	2.2460	39000.	77	20569	No
18	GOM_NL__2PRFIN20060205_010458_000000462044_00475_20569_8168.N1	05-FEB-2006 01:04:58	Straylight	45.500	117	Pi Pup	2.7060	3800.0	91	20569	No
19	GOM_NL__2PRFIN20060205_010703_000000402044_00475_20569_8169.N1	05-FEB-2006 01:07:03	Straylight	40.000	88	31Eta CMa	2.4480	20000.	80	20569	No
20	GOM_NL__2PRFIN20060205_010847_000000392044_00475_20569_8170.N1	05-FEB-2006 01:08:47	Straylight	39.000	179	24Omi2CMa	3.0320	24000.	78	20569	No
21	GOM_NL__2PRFIN20060205_011635_000000472044_00475_20569_8171.N1	05-FEB-2006 01:16:35	Twilight_and_stray	46.500	8	10Alp CMi	0.40000	6500.0	93	20569	No
22	GOM_NL__2PRFIN20060205_012010_000000372044_00475_20569_8172.N1	05-FEB-2006 01:20:10	Bright	37.000	44	24Gam Gem	1.9280	11000.	74	20569	No
23	GOM_NL__2PRFIN20060205_012203_000000382044_00475_20569_8173.N1	05-FEB-2006 01:22:03	Bright	38.000	151	13Mu Gem	2.8900	3000.0	76	20569	No
24	GOM_NL__2PRFIN20060205_012412_000000372044_00475_20569_8174.N1	05-FEB-2006 01:24:12	Bright	36.500	24	66Alp Gem	1.5800	10200.	73	20569	No
25	GOM_NL__2PRFIN20060205_012623_000000352044_00475_20569_8175.N1	05-FEB-2006 01:26:23	Bright	34.500	107	37The Aur	2.6490	11000.	69	20569	No
26	GOM_NL__2PRFIN20060205_012827_000000362044_00475_20569_8176.N1	05-FEB-2006 01:28:27	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	20569	No
27	GOM_NL__2PRFIN20060205_014029_000000352044_00475_20569_8177.N1	05-FEB-2006 01:40:29	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	20569	No
28	GOM_NL__2PRFIN20060205_015249_000000342044_00475_20569_8178.N1	05-FEB-2006 01:52:49	Bright	33.500	144	18Del Cyg	2.8600	11000.	67	20569	No
29	GOM_NL__2PRFIN20060205_015513_000000342044_00475_20569_8179.N1	05-FEB-2006 01:55:13	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	20569	No
30	GOM_NL__2PRFIN20060205_020154_000000332044_00475_20569_8180.N1	05-FEB-2006 02:01:54	Bright	32.500	168	17Zet Aql	2.9860	11000.	65	20569	No
31	GOM_NL__2PRFIN20060205_021428_000000402044_00475_20569_8181.N1	05-FEB-2006 02:14:28	Twilight	39.500	116	19Del Sgr	2.7000	4100.0	79	20569	No
32	GOM_NL__2PRFIN20060205_021539_000000402044_00475_20569_8182.N1	05-FEB-2006 02:15:39	Twilight	40.000	38	20Eps Sgr	1.8360	11000.	80	20569	No
33	GOM_NL__2PRFIN20060205_021719_000000432044_00475_20569_8183.N1	05-FEB-2006 02:17:19	Dark	43.000	25	35Lam Sco	1.6200	28000.	86	20569	No
34	GOM_NL__2PRFIN20060205_021845_000000432044_00475_20569_8184.N1	05-FEB-2006 02:18:45	Dark	42.500	40	The Sco	1.8590	7100.0	85	20569	No
35	GOM_NL__2PRFIN20060205_022036_000000362044_00475_20569_8185.N1	05-FEB-2006 02:20:36	Dark	35.500	147	Alp Ara	2.8770	26000.	71	20569	No
36	GOM_NL__2PRFIN20060205_022208_000000402044_00475_20569_8186.N1	05-FEB-2006 02:22:08	Dark	39.500	141	Bet Ara	2.8400	4600.0	79	20569	No
37	GOM_NL__2PRFIN20060205_022558_000000402044_00476_20570_8160.N1	05-FEB-2006 02:25:58	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	20570	No
38	GOM_NL__2PRFIN20060205_022744_000000452044_00476_20570_8161.N1	05-FEB-2006 02:27:44	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	20570	No
39	GOM_NL__2PRFIN20060205_023218_000000402044_00476_20570_8162.N1	05-FEB-2006 02:32:18	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	20570	No
40	GOM_NL__2PRFIN20060205_023532_000000442044_00476_20570_8163.N1	05-FEB-2006 02:35:32	Dark	43.500	29	Bet Car	1.6720	10200.	87	20570	No
41	GOM_NL__2PRFIN20060205_023758_000000392044_00476_20570_8164.N1	05-FEB-2006 02:37:58	Dark	38.500	71	lot Car	2.2460	7700.0	77	20570	No
42	GOM_NL__2PRFIN20060205_023941_000000412044_00476_20570_8165.N1	05-FEB-2006 02:39:41	Dark	40.500	46	Del Vel	1.9540	10600.	81	20570	No

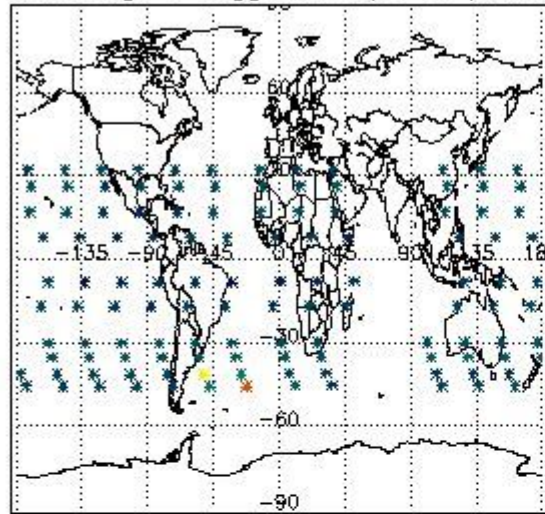
the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

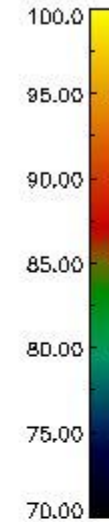
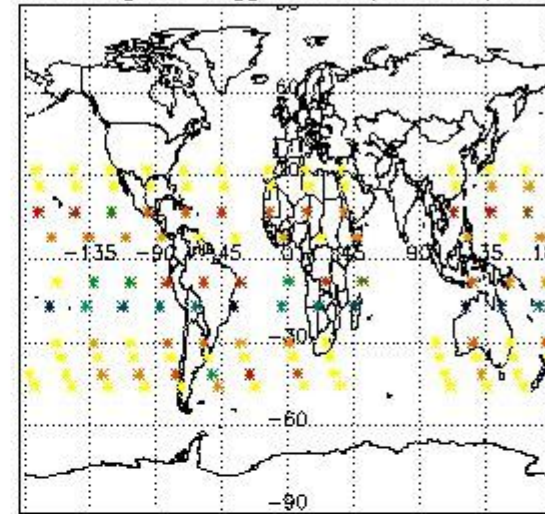


3.2 Plot quality information per product (world map)

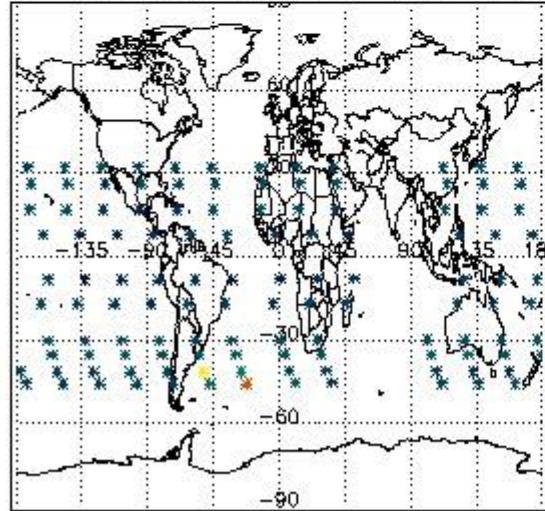
Percentage of flagged data per O3 profile



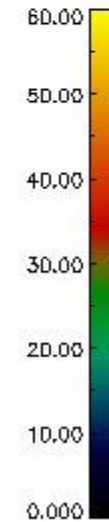
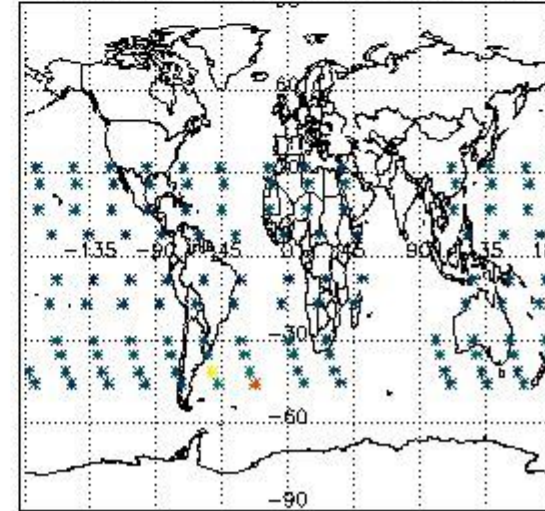
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

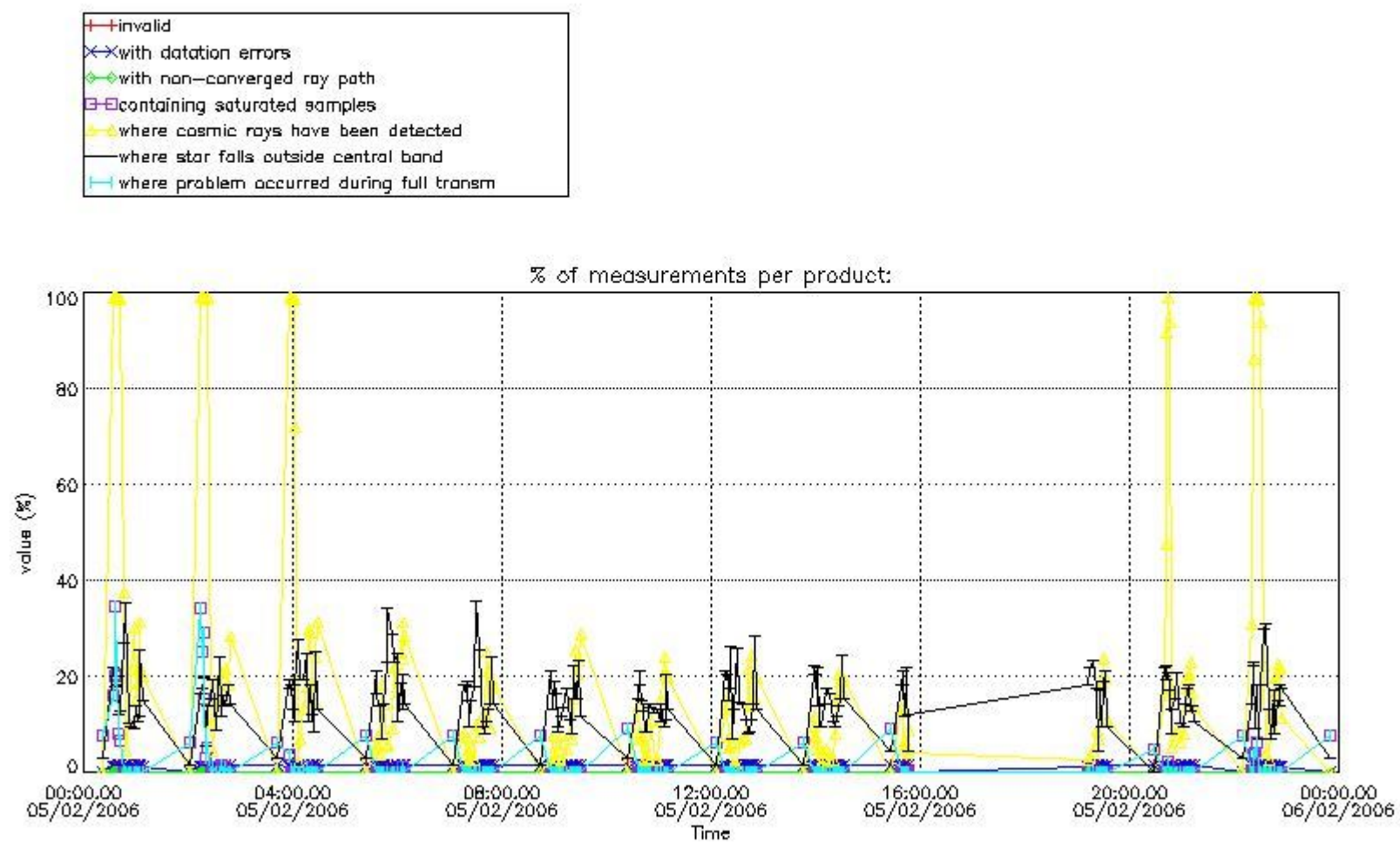


4. Level 1 quality information per product

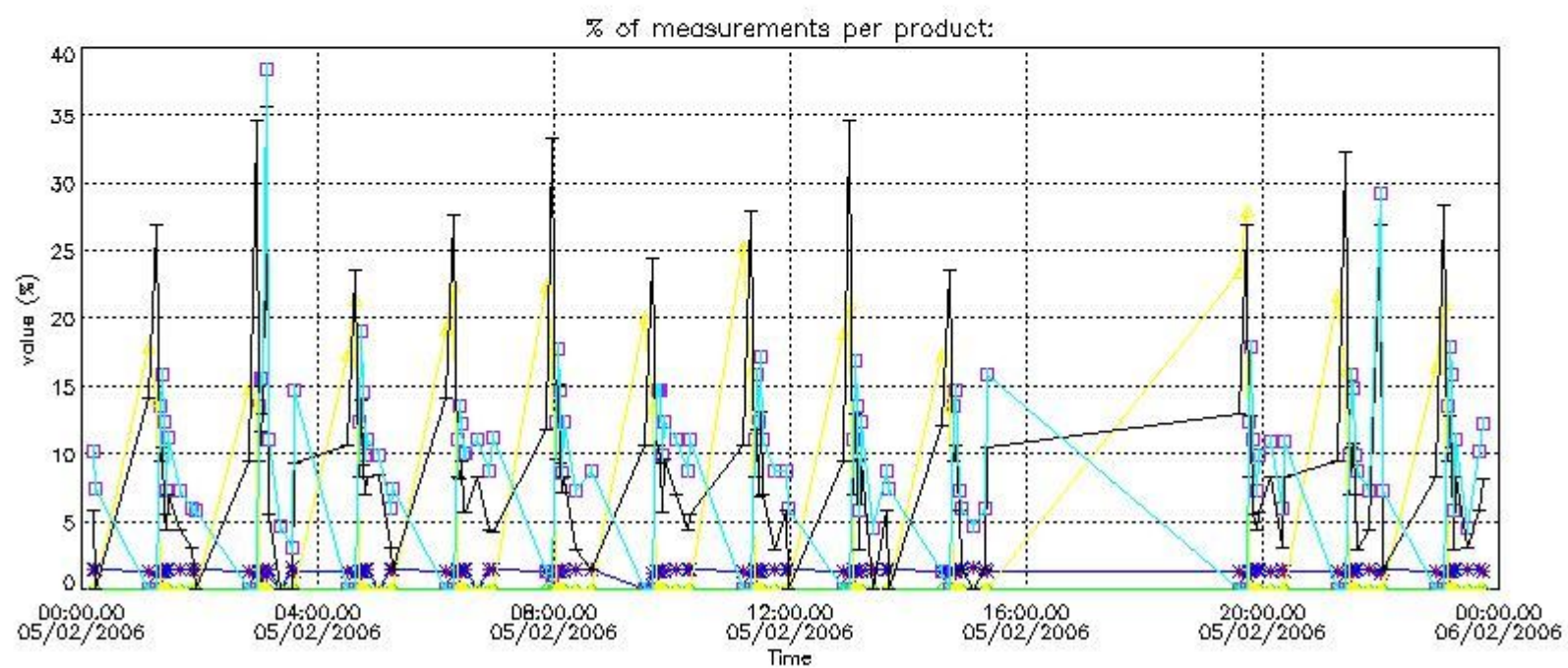
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



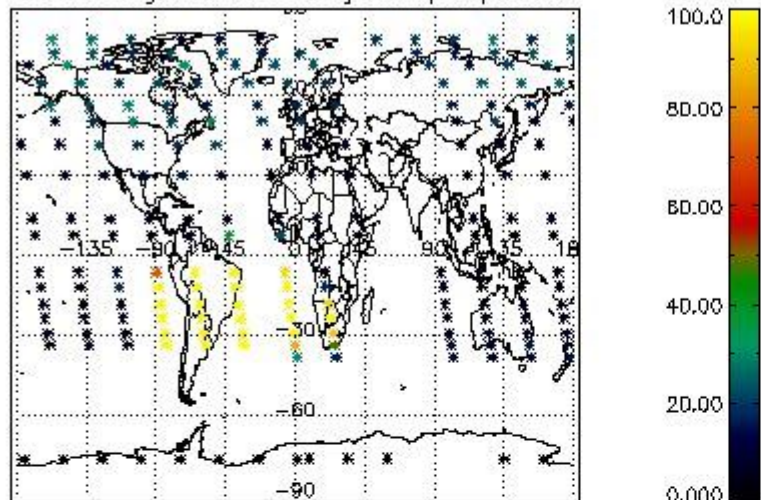
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



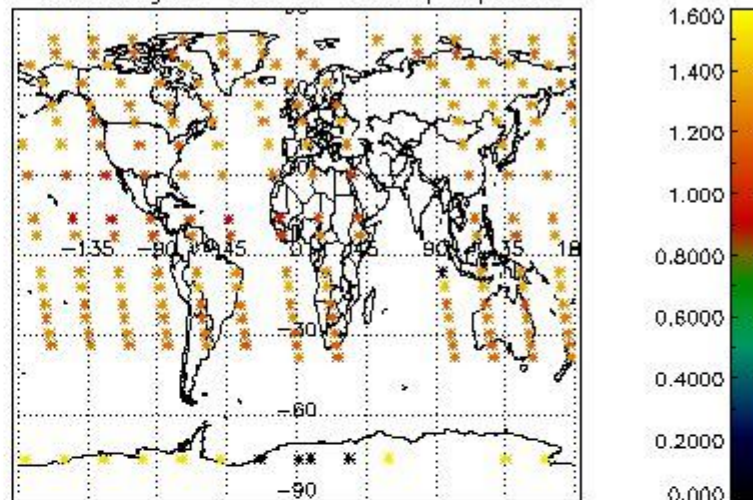
4.2 Plot quality information per product coming from level 1b processing (world map)

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

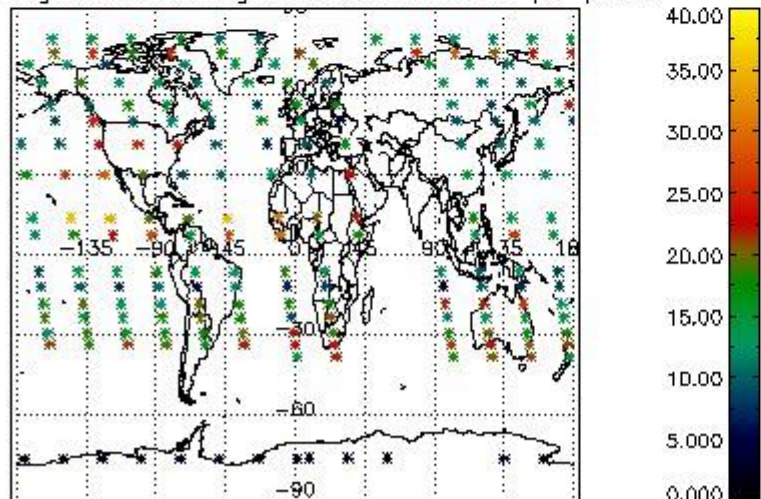
Percentage of cosmic ray hits per profile



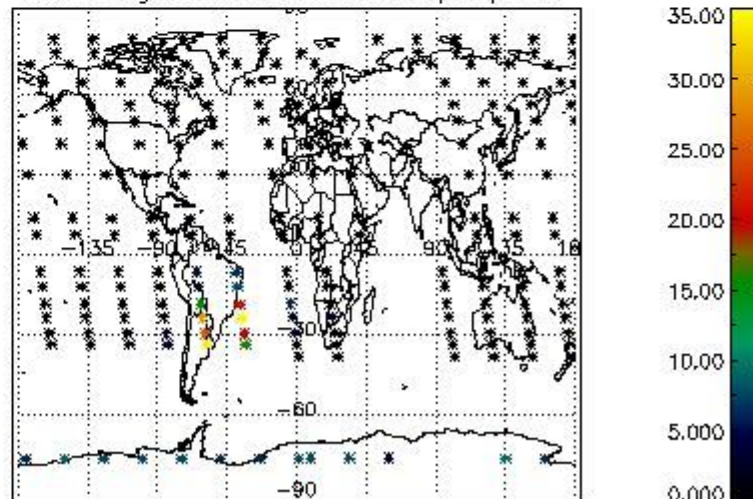
Percentage of datation errors per profile



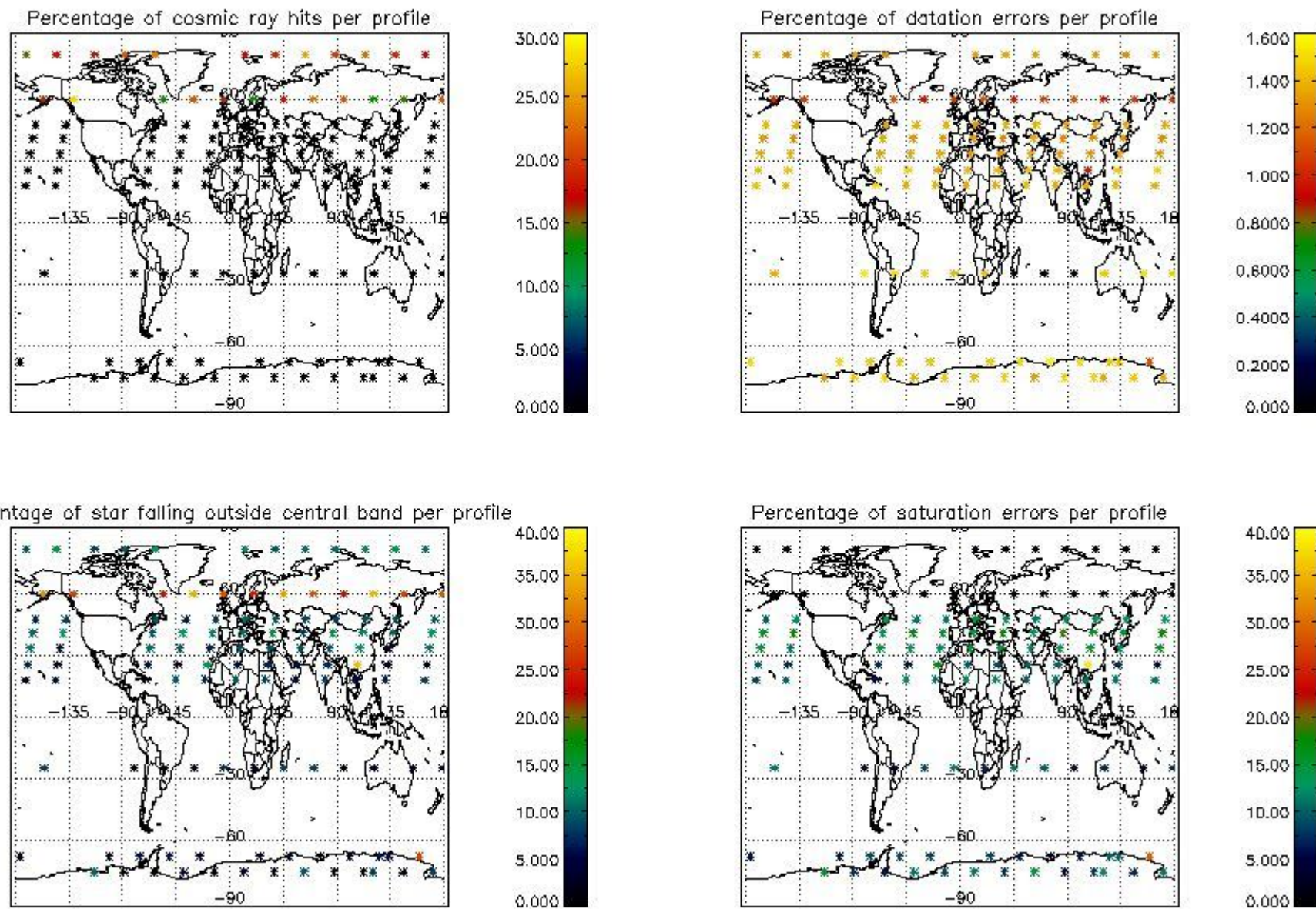
Percentage of star falling outside central band per profile



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

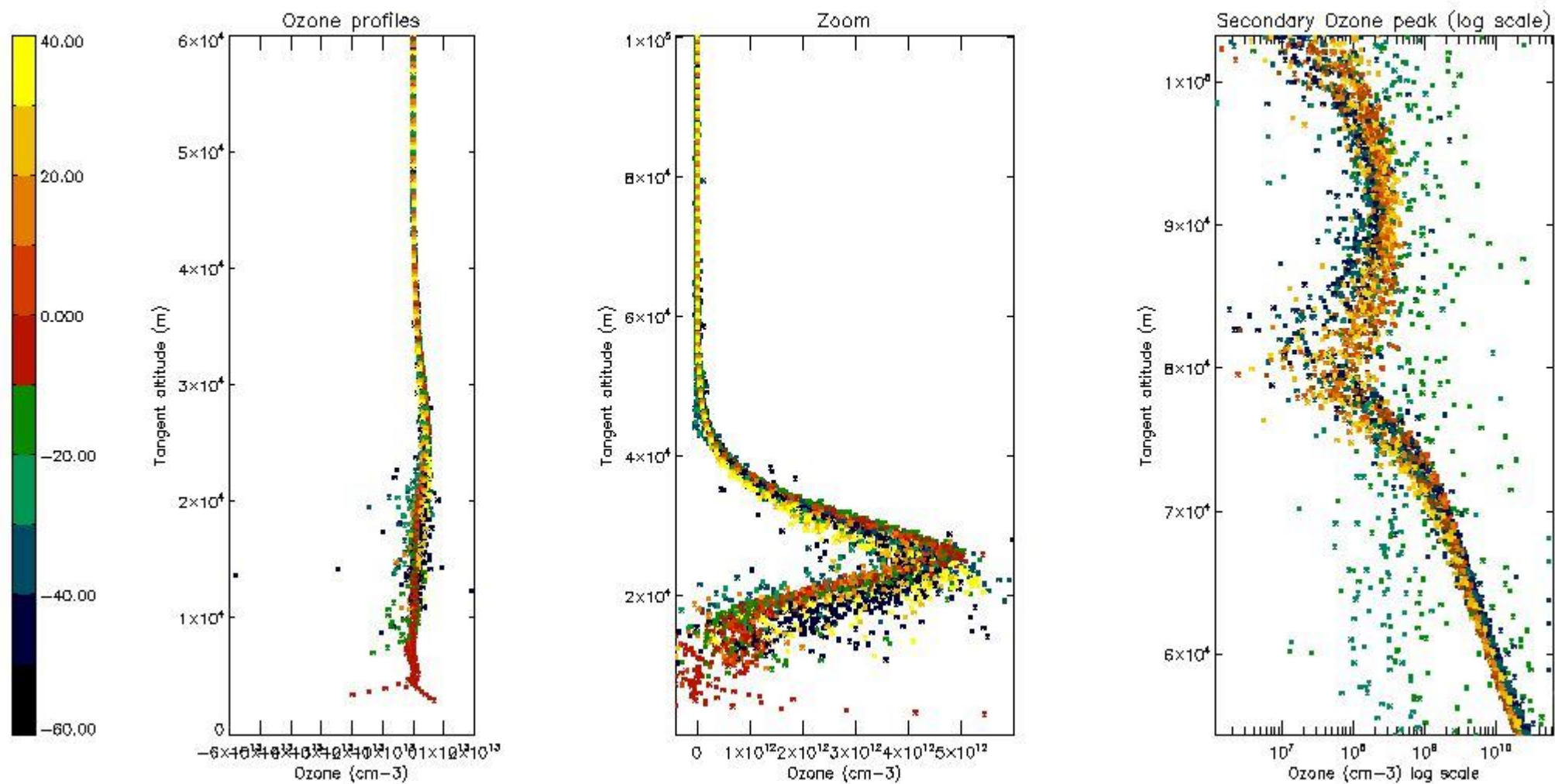
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	20

STD < 10	17
STD < 5	11

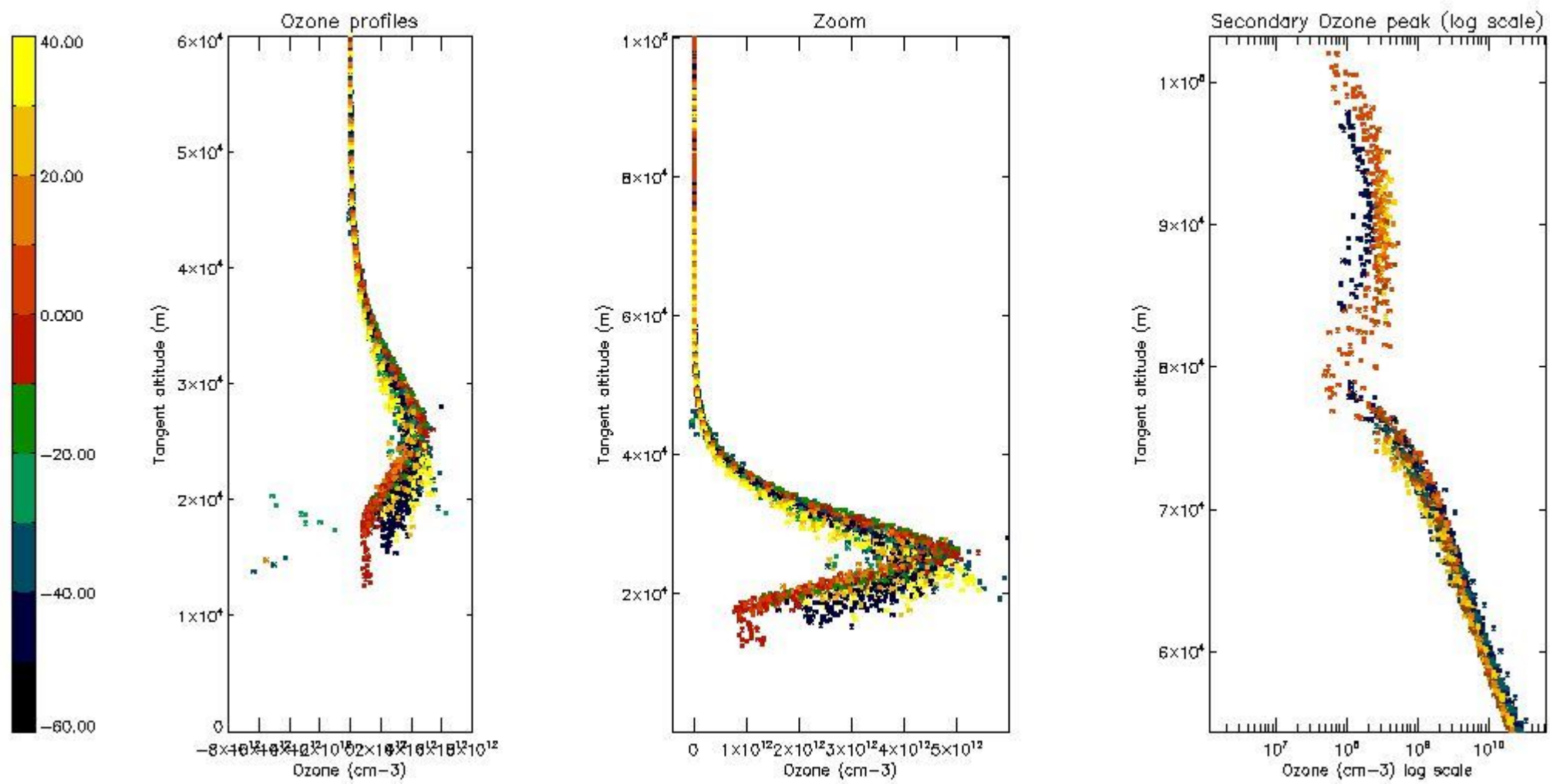
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



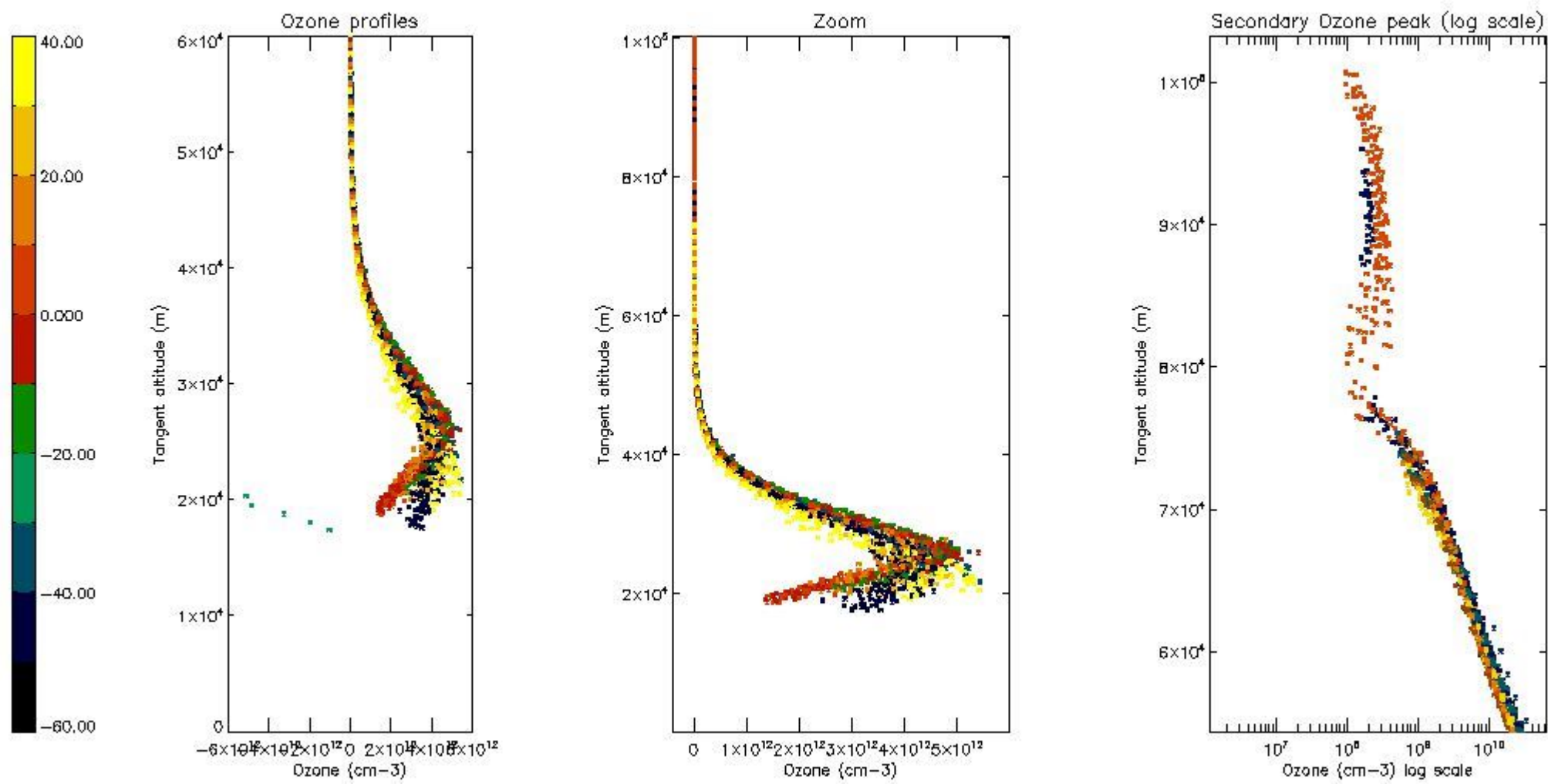
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



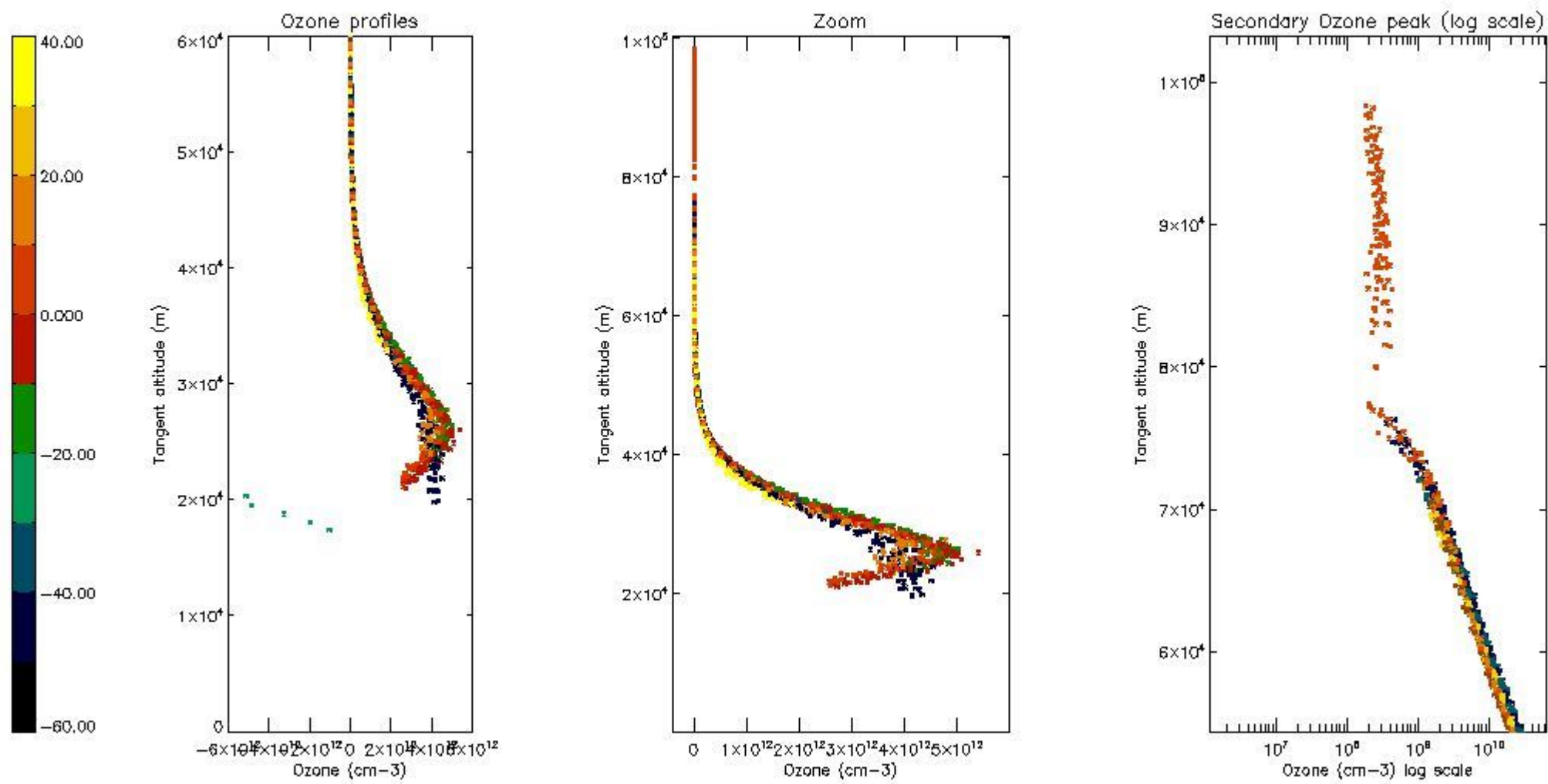
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



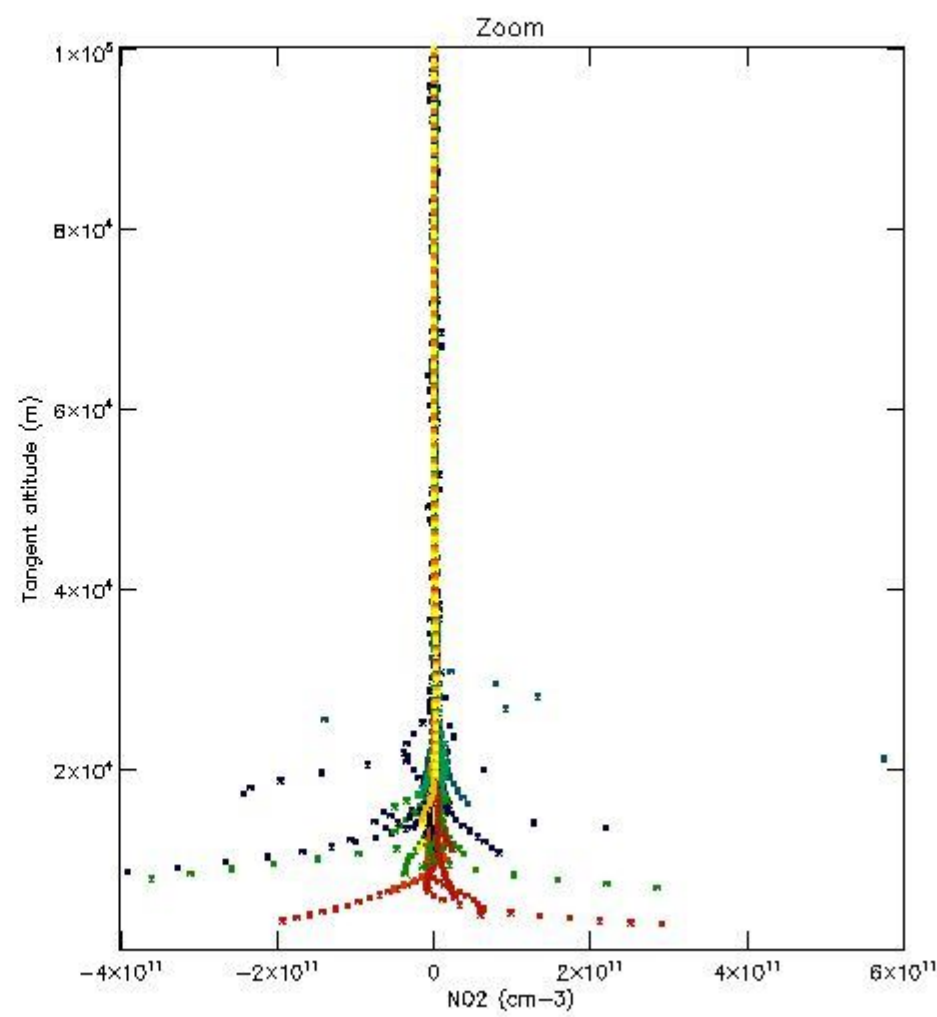
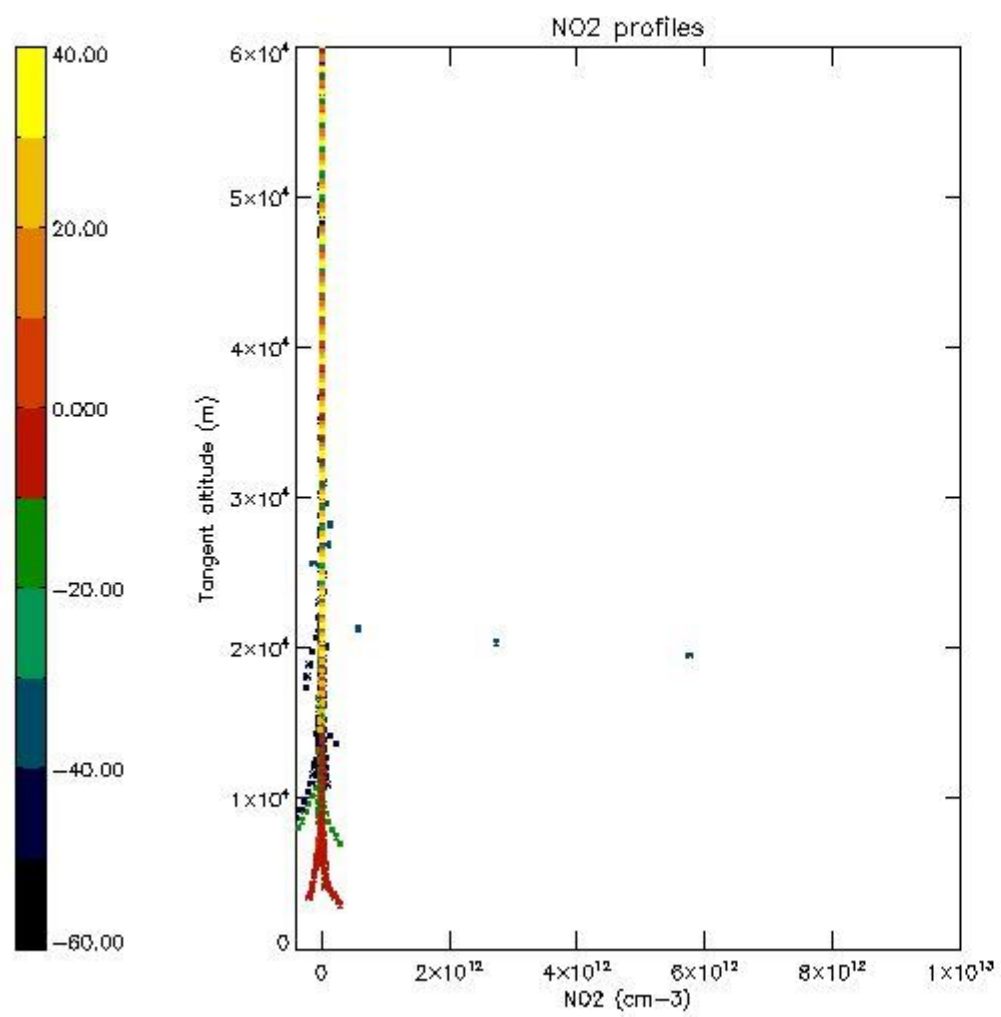
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



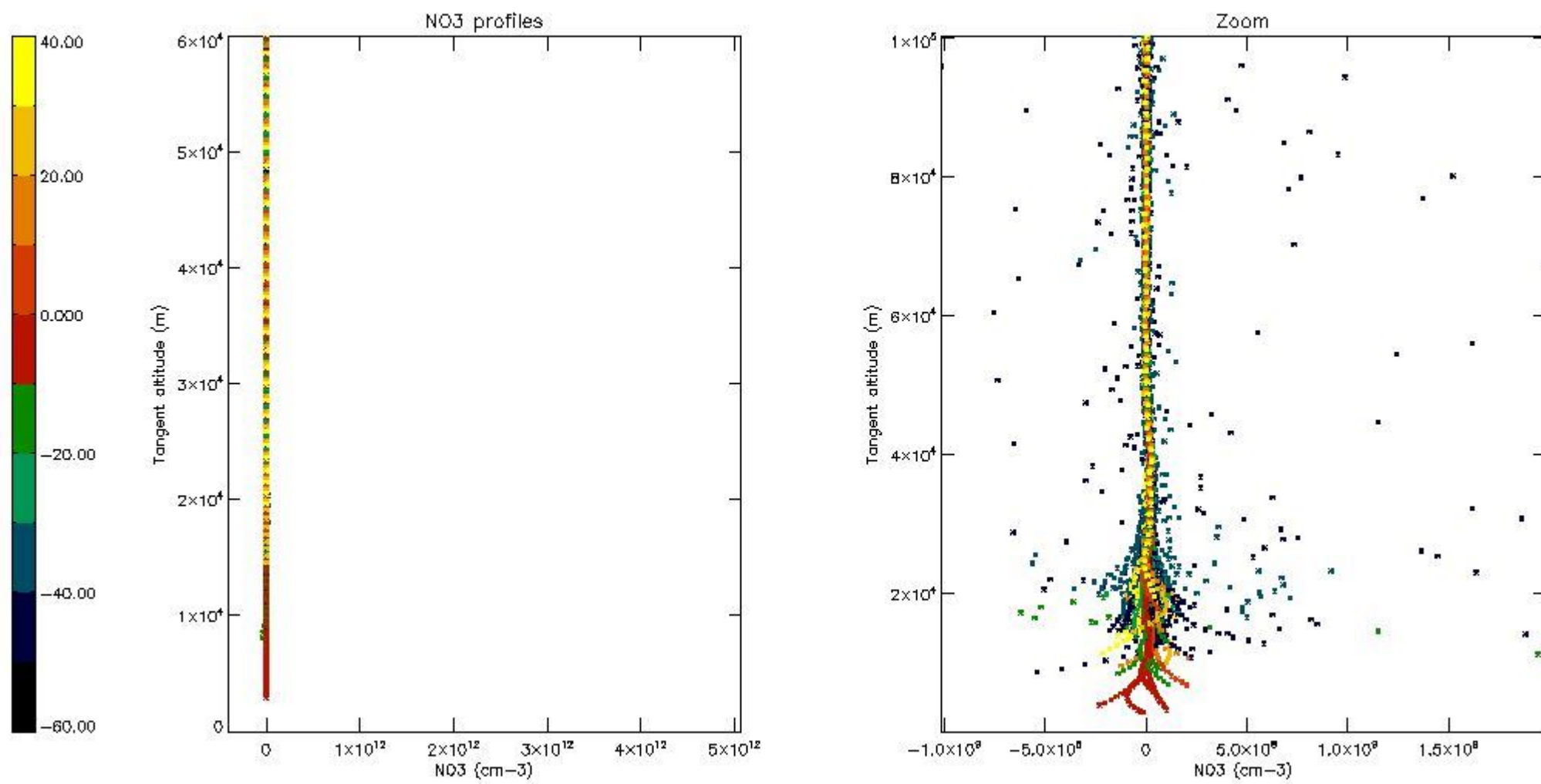
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



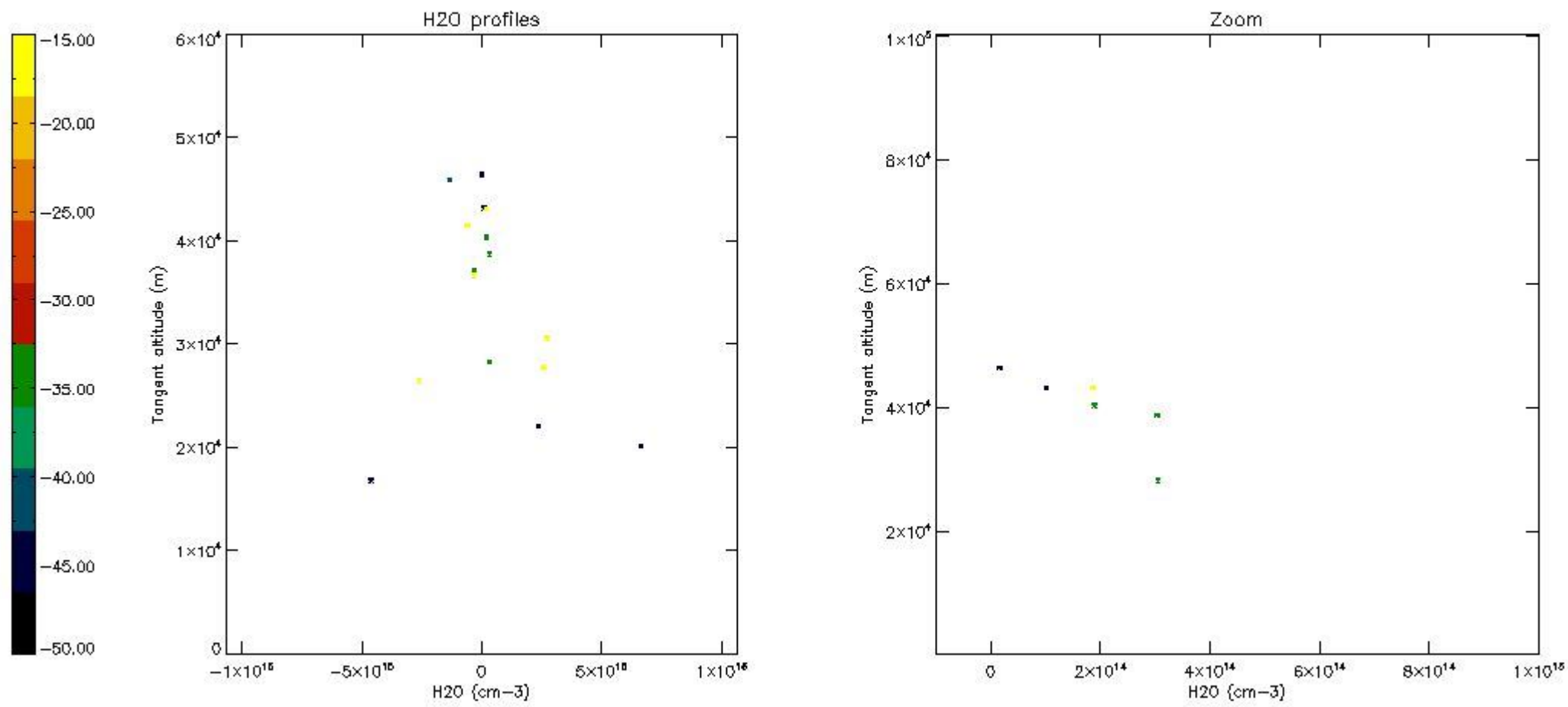
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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	05-FEB-2006 00:12:13
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	05-FEB-2006 00:12:13
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	05-FEB-2006 00:12:13

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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](#)

[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](#)

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

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

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

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

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

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

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

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

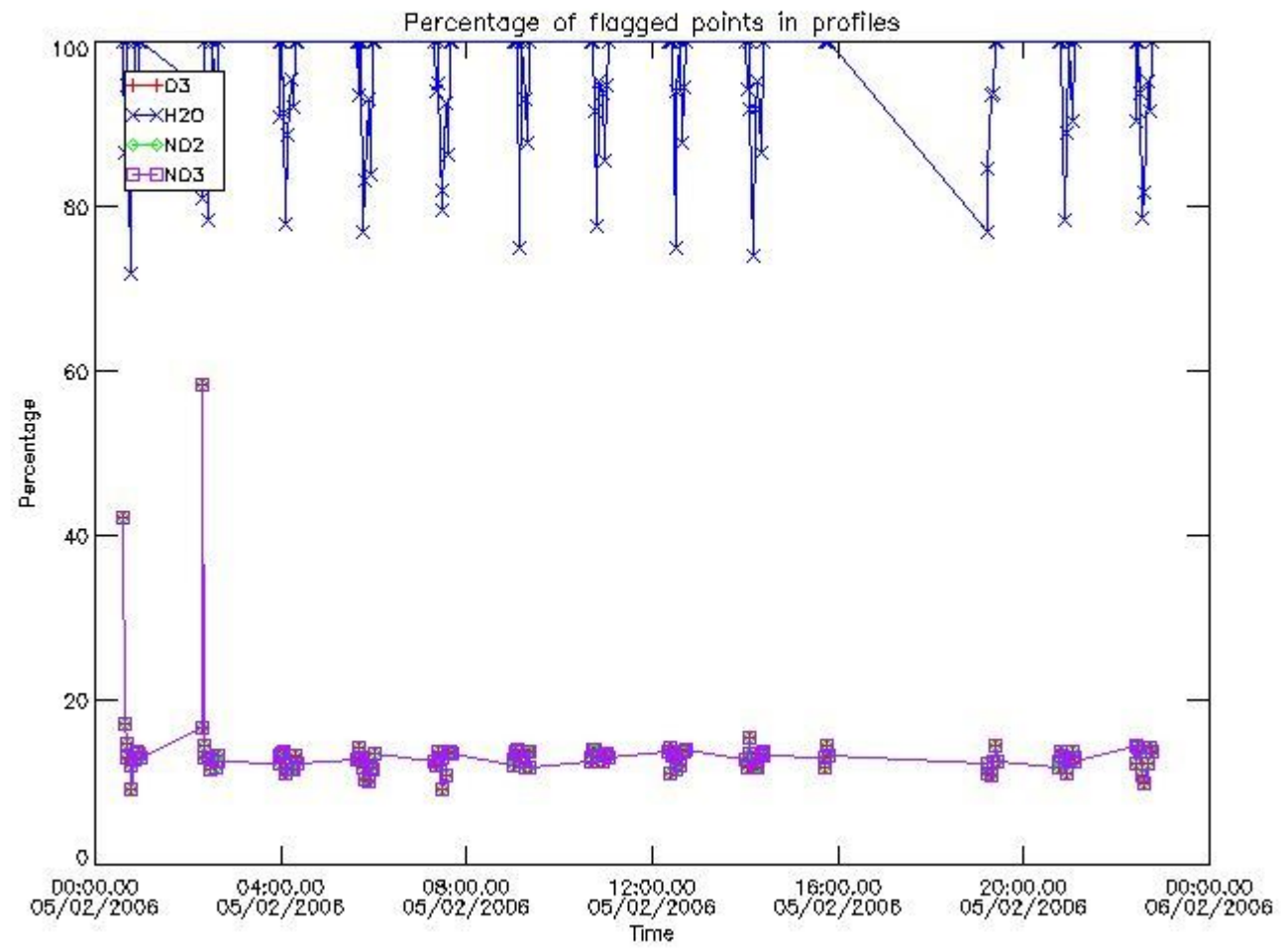
Item	Value
Time of report generation	22APR2013 15:21:52
Data source version	GOMOS/6.01
Start time of products	05-02-2006 (05FEB2006 00:00:00)
Stop time of products	06-02-2006 (06FEB2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	331
Nb of prods with errors	0

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__2PRFIN20060205_001213_000000352044_00474_20568_8178.N1	05-FEB-2006 00:12:13	Bright	34.500	144	18Del Cyg	2.8600	11000.	69	20568	No
2	GOM_NL__2PRFIN20060205_001437_000000342044_00474_20568_8179.N1	05-FEB-2006 00:14:37	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	20568	No
3	GOM_NL__2PRFIN20060205_002118_000000332044_00474_20568_8180.N1	05-FEB-2006 00:21:18	Bright	32.500	168	17Zet Aql	2.9860	11000.	65	20568	No
4	GOM_NL__2PRFIN20060205_003352_000000442044_00474_20568_8181.N1	05-FEB-2006 00:33:52	Twilight	43.500	116	19Del Sgr	2.7000	4100.0	87	20568	No
5	GOM_NL__2PRFIN20060205_003503_000000432044_00474_20568_8182.N1	05-FEB-2006 00:35:03	Twilight	42.500	38	20Eps Sgr	1.8360	11000.	85	20568	No
6	GOM_NL__2PRFIN20060205_003643_000000422044_00474_20568_8183.N1	05-FEB-2006 00:36:43	Dark	42.000	25	35Lam Sco	1.6200	28000.	84	20568	No
7	GOM_NL__2PRFIN20060205_003808_000000422044_00474_20568_8184.N1	05-FEB-2006 00:38:08	Dark	41.500	40	The Sco	1.8590	7100.0	83	20568	No
8	GOM_NL__2PRFIN20060205_004000_000000382044_00474_20568_8185.N1	05-FEB-2006 00:40:00	Dark	38.000	147	Alp Ara	2.8770	26000.	76	20568	No
9	GOM_NL__2PRFIN20060205_004132_000000392044_00474_20568_8186.N1	05-FEB-2006 00:41:32	Dark	39.000	141	Bet Ara	2.8400	4600.0	78	20568	No
10	GOM_NL__2PRFIN20060205_004521_000000472044_00475_20569_8160.N1	05-FEB-2006 00:45:21	Dark	46.500	43	Alp TrA	1.9100	4250.0	93	20569	No
11	GOM_NL__2PRFIN20060205_004707_000000562044_00475_20569_8161.N1	05-FEB-2006 00:47:07	Dark	55.500	4	Alp1Cen	-0.010000	5800.0	111	20569	No
12	GOM_NL__2PRFIN20060205_005142_000000402044_00475_20569_8162.N1	05-FEB-2006 00:51:42	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	20569	No
13	GOM_NL__2PRFIN20060205_005456_000000372044_00475_20569_8163.N1	05-FEB-2006 00:54:56	Dark	37.000	29	Bet Car	1.6720	10200.	74	20569	No
14	GOM_NL__2PRFIN20060205_005722_000000382044_00475_20569_8164.N1	05-FEB-2006 00:57:22	Dark	38.000	71	lot Car	2.2460	7700.0	76	20569	No
15	GOM_NL__2PRFIN20060205_005905_000000402044_00475_20569_8165.N1	05-FEB-2006 00:59:05	Dark	39.500	46	Del Vel	1.9540	10600.	79	20569	No
16	GOM_NL__2PRFIN20060205_010134_000000382044_00475_20569_8166.N1	05-FEB-2006 01:01:34	Straylight	38.000	34	Gam2Vel	1.7930	23000.	76	20569	No
17	GOM_NL__2PRFIN20060205_010338_000000392044_00475_20569_8167.N1	05-FEB-2006 01:03:38	Straylight	38.500	70	Zet Pup	2.2460	39000.	77	20569	No
18	GOM_NL__2PRFIN20060205_010458_000000462044_00475_20569_8168.N1	05-FEB-2006 01:04:58	Straylight	45.500	117	Pi Pup	2.7060	3800.0	91	20569	No
19	GOM_NL__2PRFIN20060205_010703_000000402044_00475_20569_8169.N1	05-FEB-2006 01:07:03	Straylight	40.000	88	31Eta CMa	2.4480	20000.	80	20569	No
20	GOM_NL__2PRFIN20060205_010847_000000392044_00475_20569_8170.N1	05-FEB-2006 01:08:47	Straylight	39.000	179	24Omi2CMa	3.0320	24000.	78	20569	No
21	GOM_NL__2PRFIN20060205_011635_000000472044_00475_20569_8171.N1	05-FEB-2006 01:16:35	Twilight_and_stray	46.500	8	10Alp CMi	0.40000	6500.0	93	20569	No
22	GOM_NL__2PRFIN20060205_012010_000000372044_00475_20569_8172.N1	05-FEB-2006 01:20:10	Bright	37.000	44	24Gam Gem	1.9280	11000.	74	20569	No
23	GOM_NL__2PRFIN20060205_012203_000000382044_00475_20569_8173.N1	05-FEB-2006 01:22:03	Bright	38.000	151	13Mu Gem	2.8900	3000.0	76	20569	No
24	GOM_NL__2PRFIN20060205_012412_000000372044_00475_20569_8174.N1	05-FEB-2006 01:24:12	Bright	36.500	24	66Alp Gem	1.5800	10200.	73	20569	No
25	GOM_NL__2PRFIN20060205_012623_000000352044_00475_20569_8175.N1	05-FEB-2006 01:26:23	Bright	34.500	107	37The Aur	2.6490	11000.	69	20569	No
26	GOM_NL__2PRFIN20060205_012827_000000362044_00475_20569_8176.N1	05-FEB-2006 01:28:27	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	20569	No
27	GOM_NL__2PRFIN20060205_014029_000000352044_00475_20569_8177.N1	05-FEB-2006 01:40:29	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	20569	No
28	GOM_NL__2PRFIN20060205_015249_000000342044_00475_20569_8178.N1	05-FEB-2006 01:52:49	Bright	33.500	144	18Del Cyg	2.8600	11000.	67	20569	No
29	GOM_NL__2PRFIN20060205_015513_000000342044_00475_20569_8179.N1	05-FEB-2006 01:55:13	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	20569	No
30	GOM_NL__2PRFIN20060205_020154_000000332044_00475_20569_8180.N1	05-FEB-2006 02:01:54	Bright	32.500	168	17Zet Aql	2.9860	11000.	65	20569	No
31	GOM_NL__2PRFIN20060205_021428_000000402044_00475_20569_8181.N1	05-FEB-2006 02:14:28	Twilight	39.500	116	19Del Sgr	2.7000	4100.0	79	20569	No
32	GOM_NL__2PRFIN20060205_021539_000000402044_00475_20569_8182.N1	05-FEB-2006 02:15:39	Twilight	40.000	38	20Eps Sgr	1.8360	11000.	80	20569	No
33	GOM_NL__2PRFIN20060205_021719_000000432044_00475_20569_8183.N1	05-FEB-2006 02:17:19	Dark	43.000	25	35Lam Sco	1.6200	28000.	86	20569	No
34	GOM_NL__2PRFIN20060205_021845_000000432044_00475_20569_8184.N1	05-FEB-2006 02:18:45	Dark	42.500	40	The Sco	1.8590	7100.0	85	20569	No
35	GOM_NL__2PRFIN20060205_022036_000000362044_00475_20569_8185.N1	05-FEB-2006 02:20:36	Dark	35.500	147	Alp Ara	2.8770	26000.	71	20569	No
36	GOM_NL__2PRFIN20060205_022208_000000402044_00475_20569_8186.N1	05-FEB-2006 02:22:08	Dark	39.500	141	Bet Ara	2.8400	4600.0	79	20569	No
37	GOM_NL__2PRFIN20060205_022558_000000402044_00476_20570_8160.N1	05-FEB-2006 02:25:58	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	20570	No
38	GOM_NL__2PRFIN20060205_022744_000000452044_00476_20570_8161.N1	05-FEB-2006 02:27:44	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	20570	No
39	GOM_NL__2PRFIN20060205_023218_000000402044_00476_20570_8162.N1	05-FEB-2006 02:32:18	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	20570	No
40	GOM_NL__2PRFIN20060205_023532_000000442044_00476_20570_8163.N1	05-FEB-2006 02:35:32	Dark	43.500	29	Bet Car	1.6720	10200.	87	20570	No
41	GOM_NL__2PRFIN20060205_023758_000000392044_00476_20570_8164.N1	05-FEB-2006 02:37:58	Dark	38.500	71	lot Car	2.2460	7700.0	77	20570	No
42	GOM_NL__2PRFIN20060205_023941_000000412044_00476_20570_8165.N1	05-FEB-2006 02:39:41	Dark	40.500	46	Del Vel	1.9540	10600.	81	20570	No

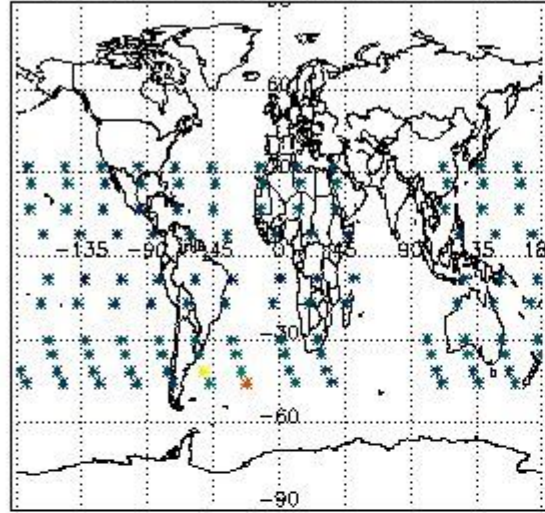
the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

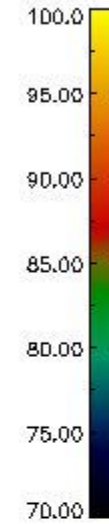
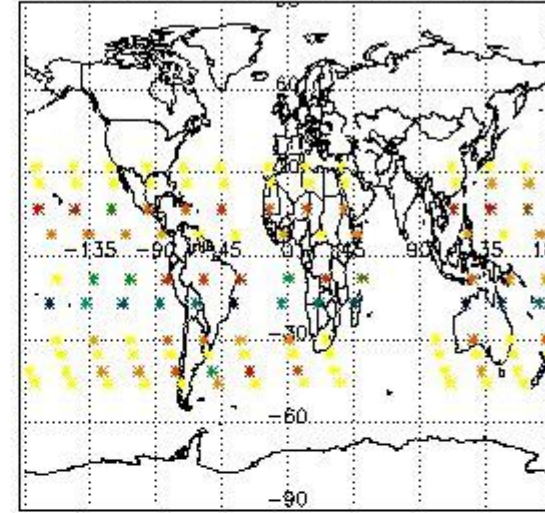


3.2 Plot quality information per product (world map)

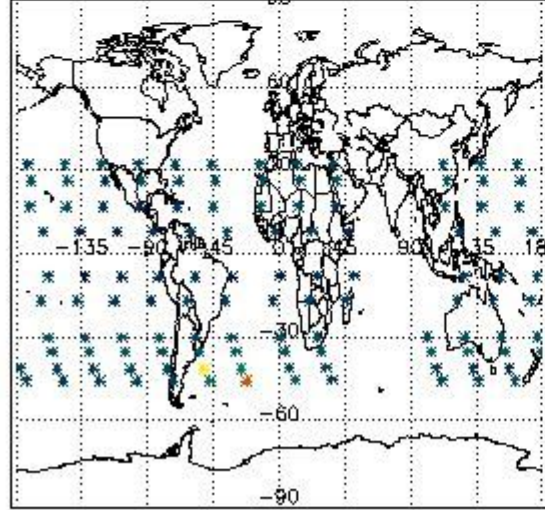
Percentage of flagged data per O3 profile



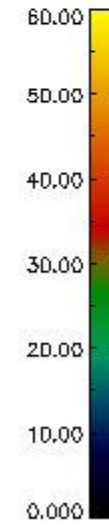
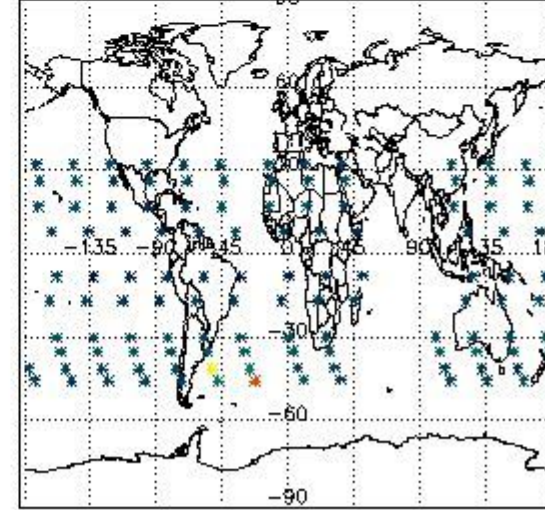
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

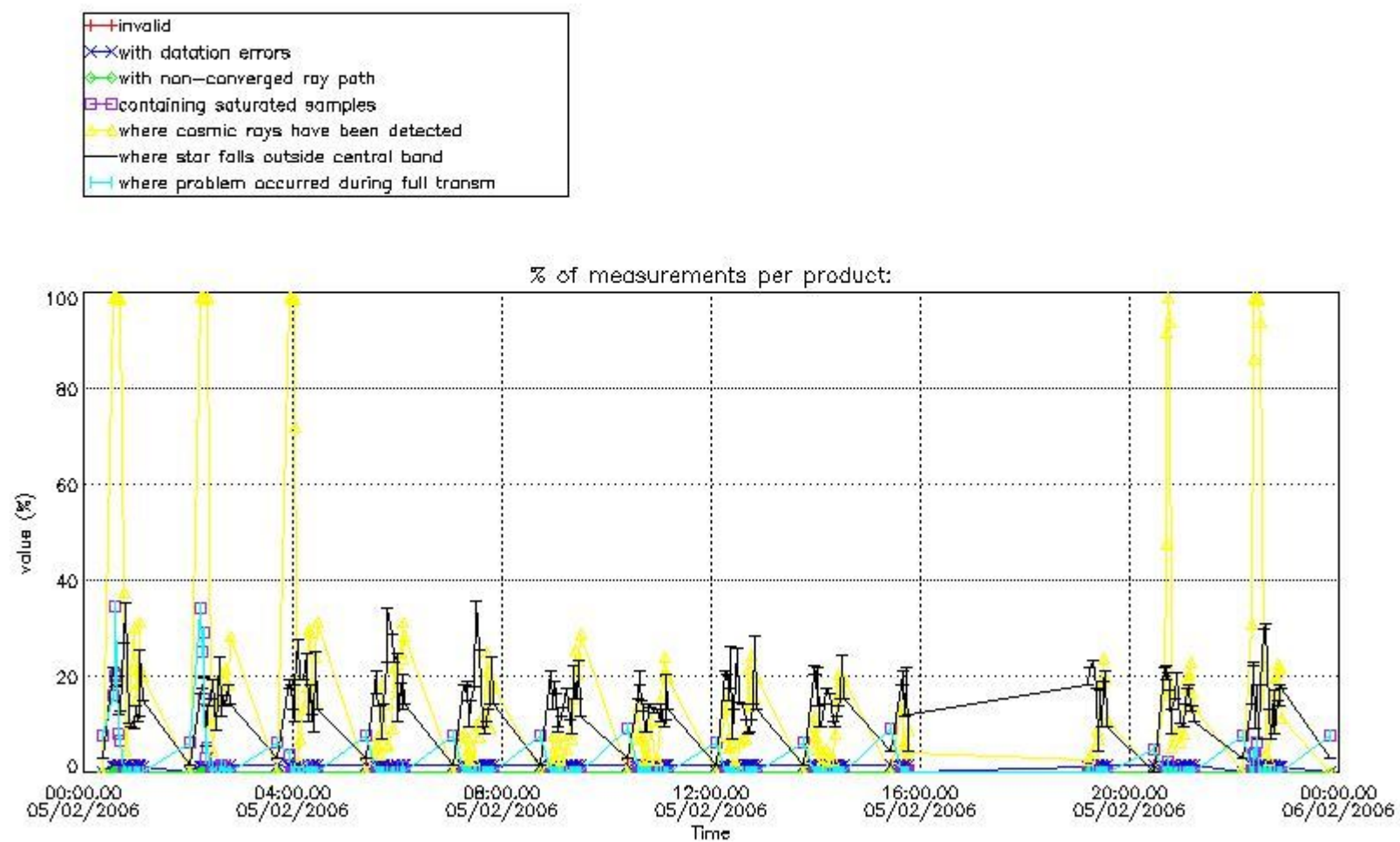


4. Level 1 quality information per product

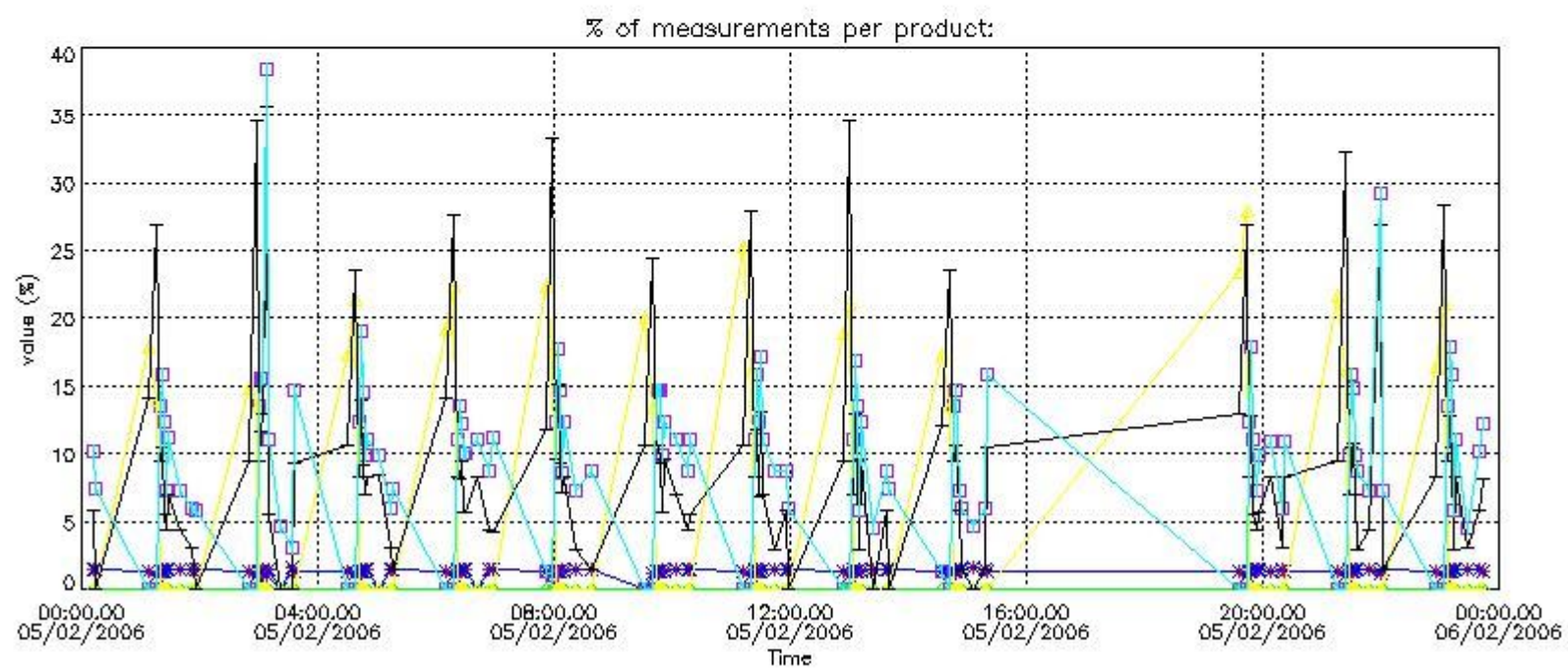
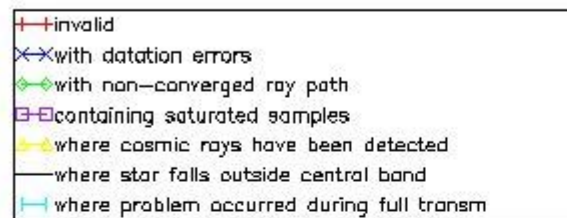
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

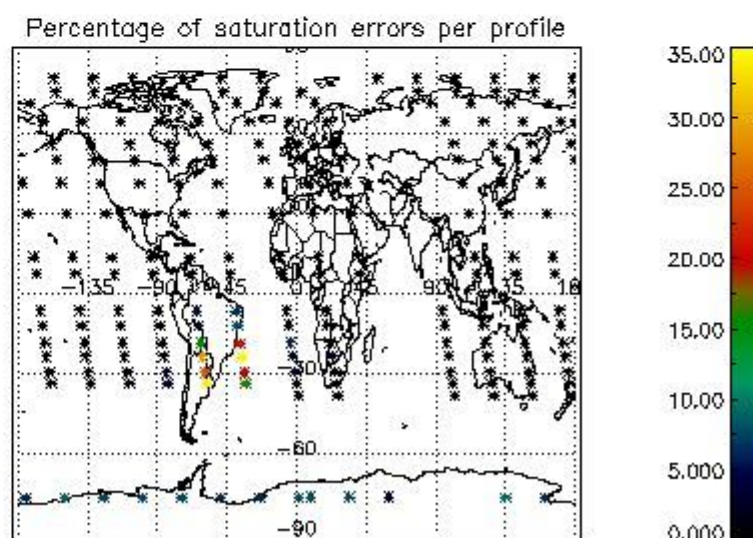
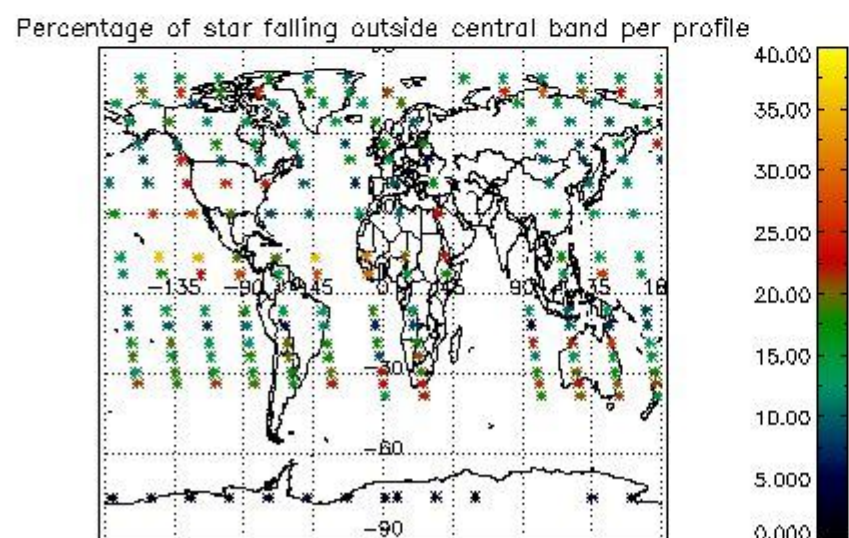
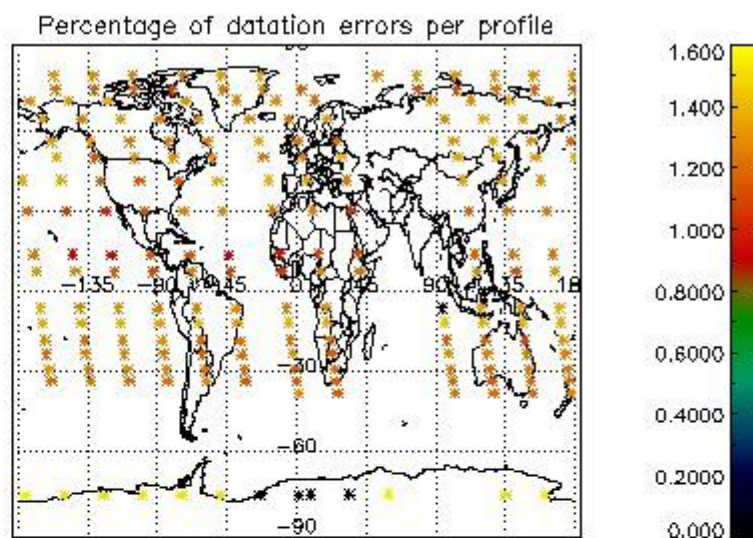
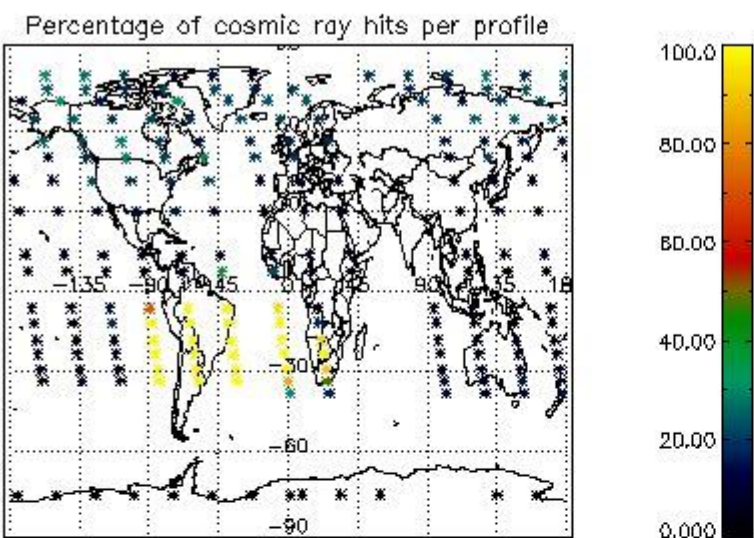


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

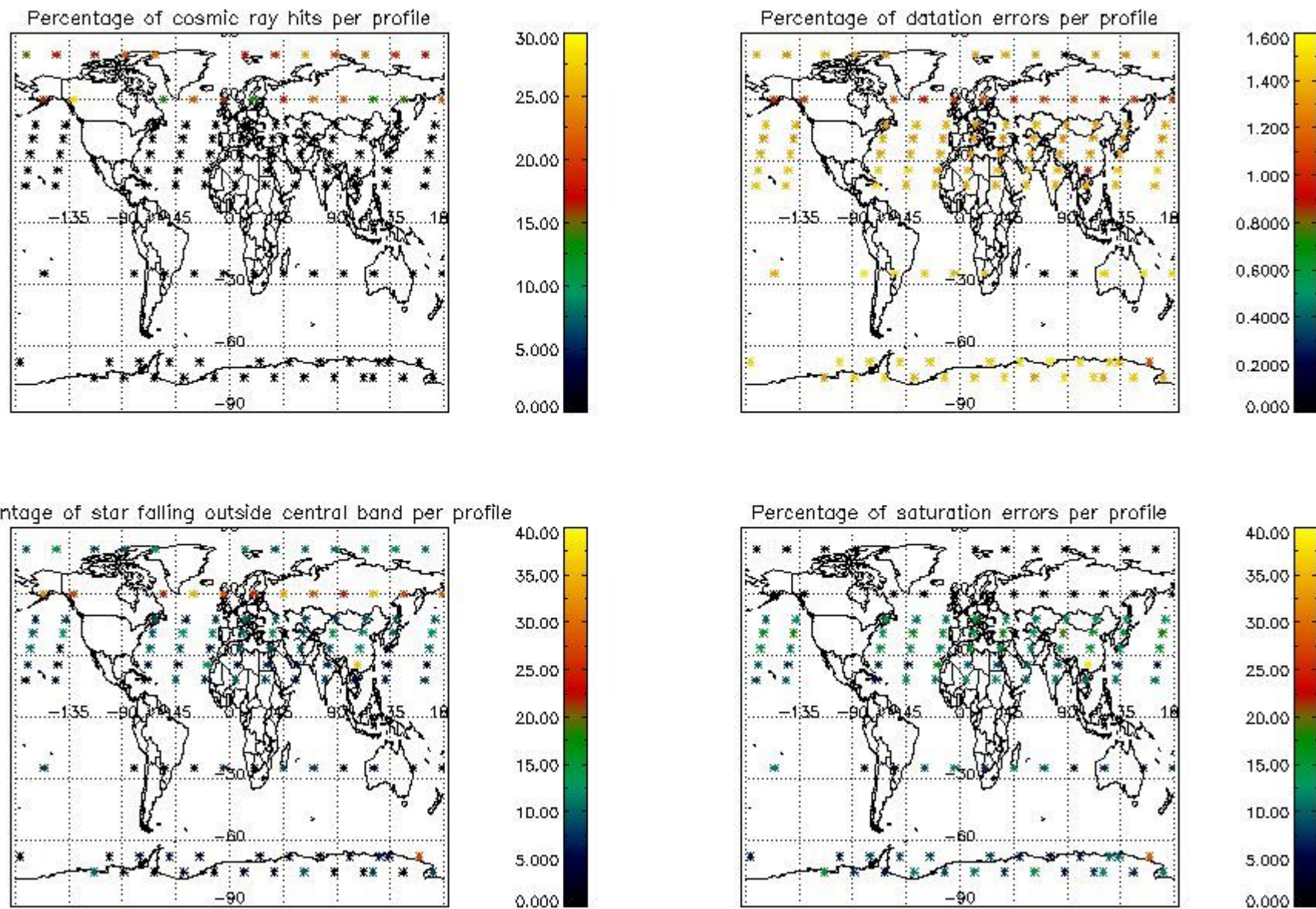


4.2 Plot quality information per product coming from level 1b processing (world map)

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

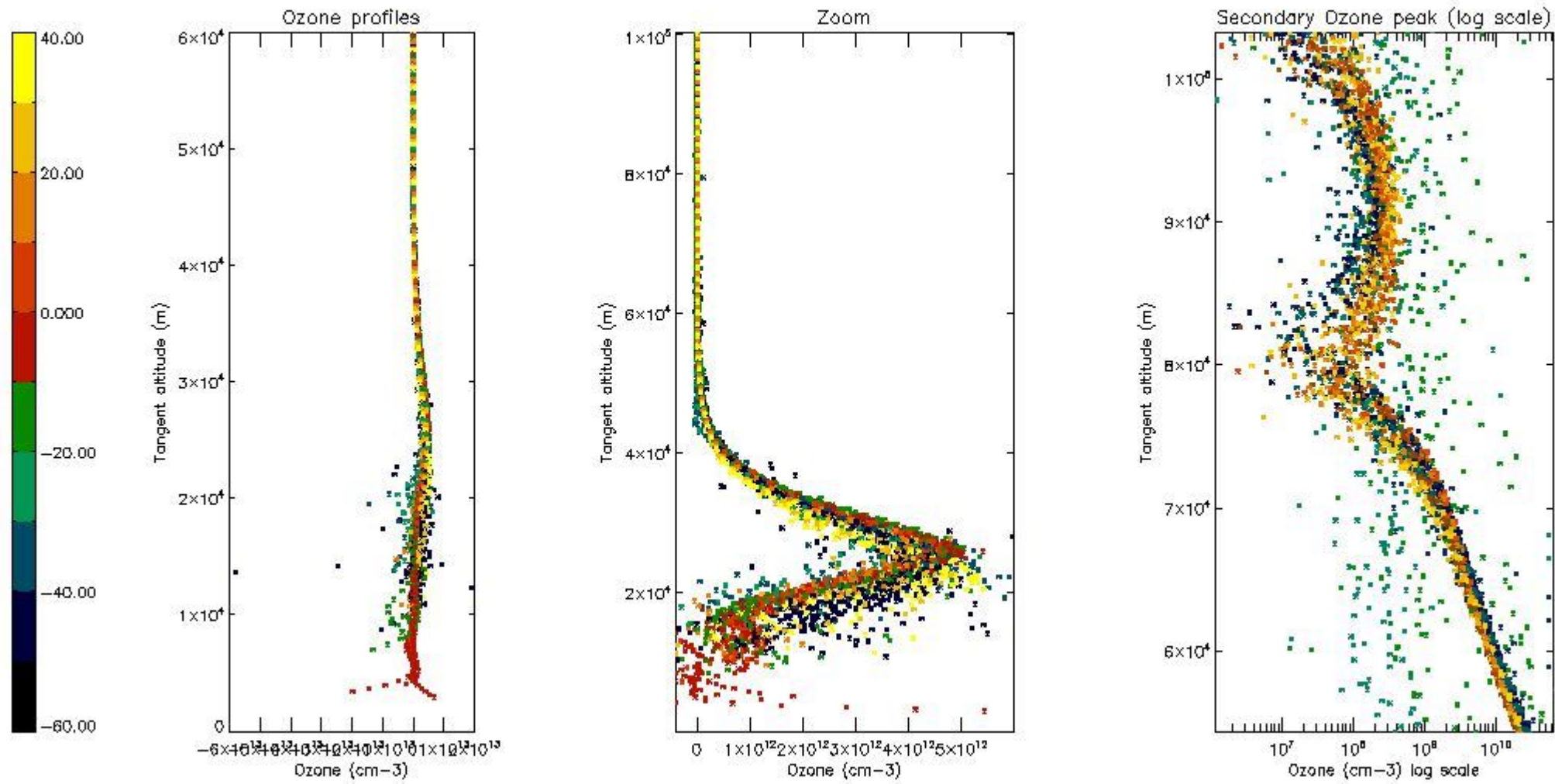
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	20

STD < 10	17
STD < 5	11

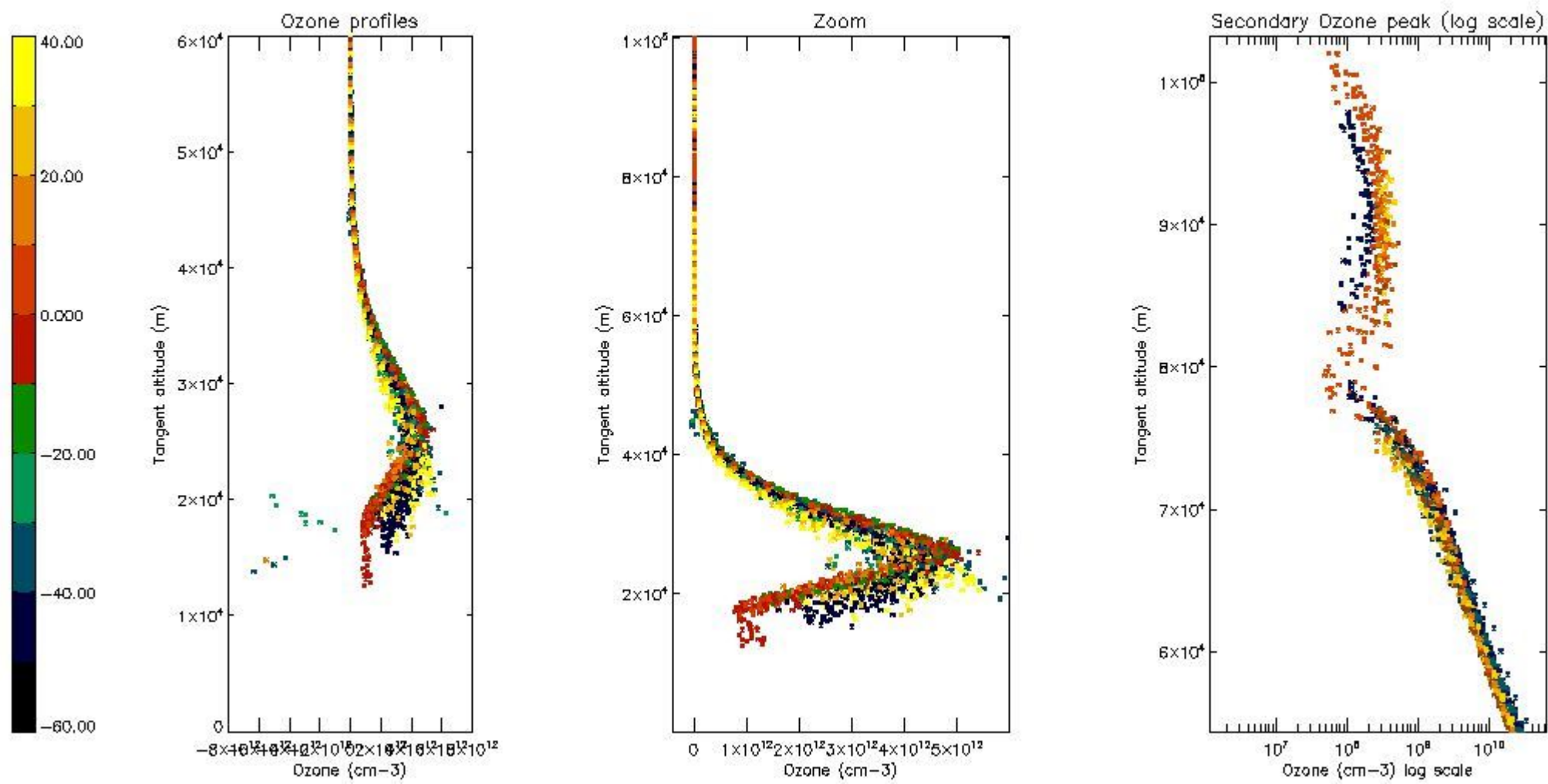
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



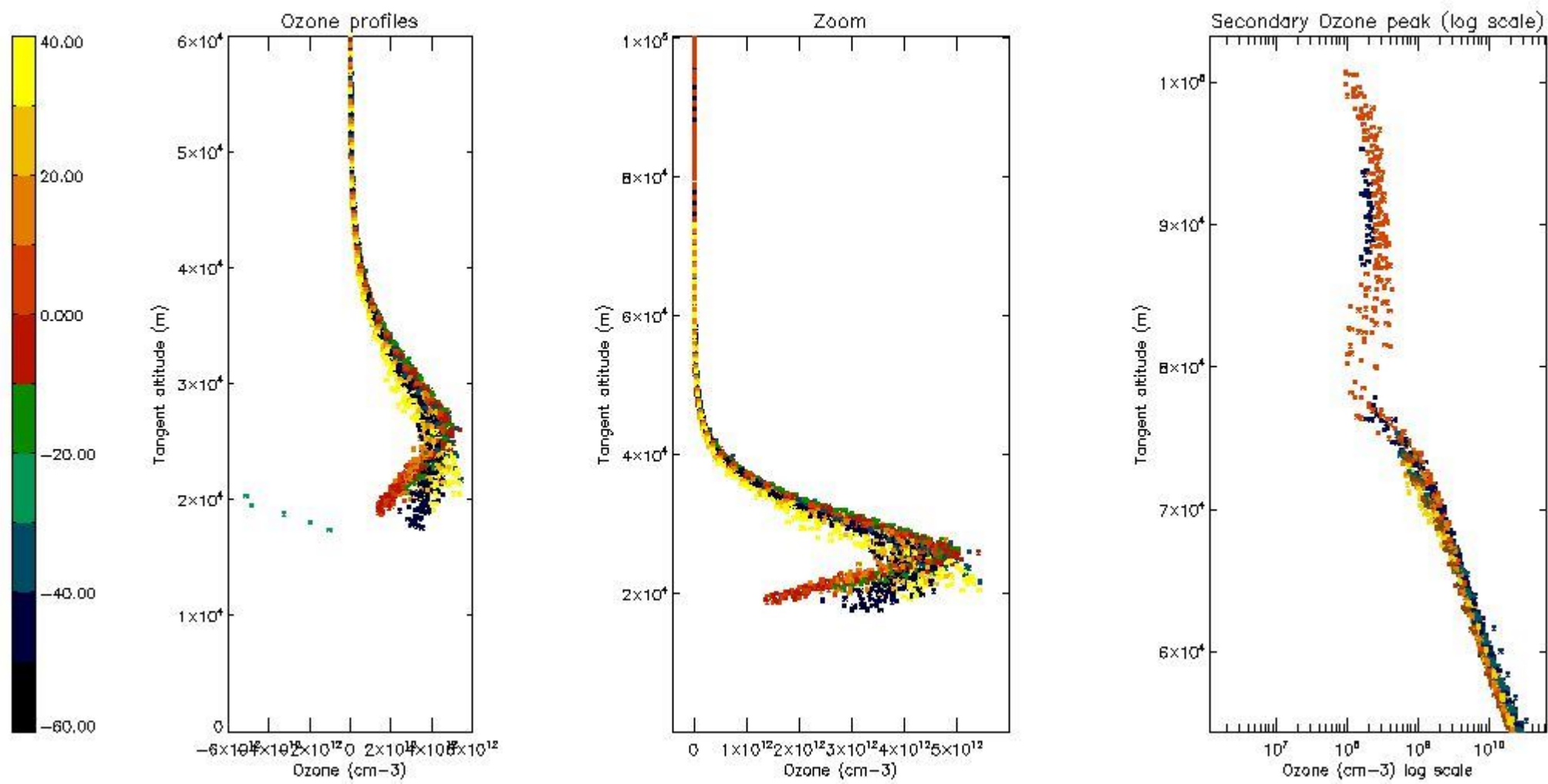
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



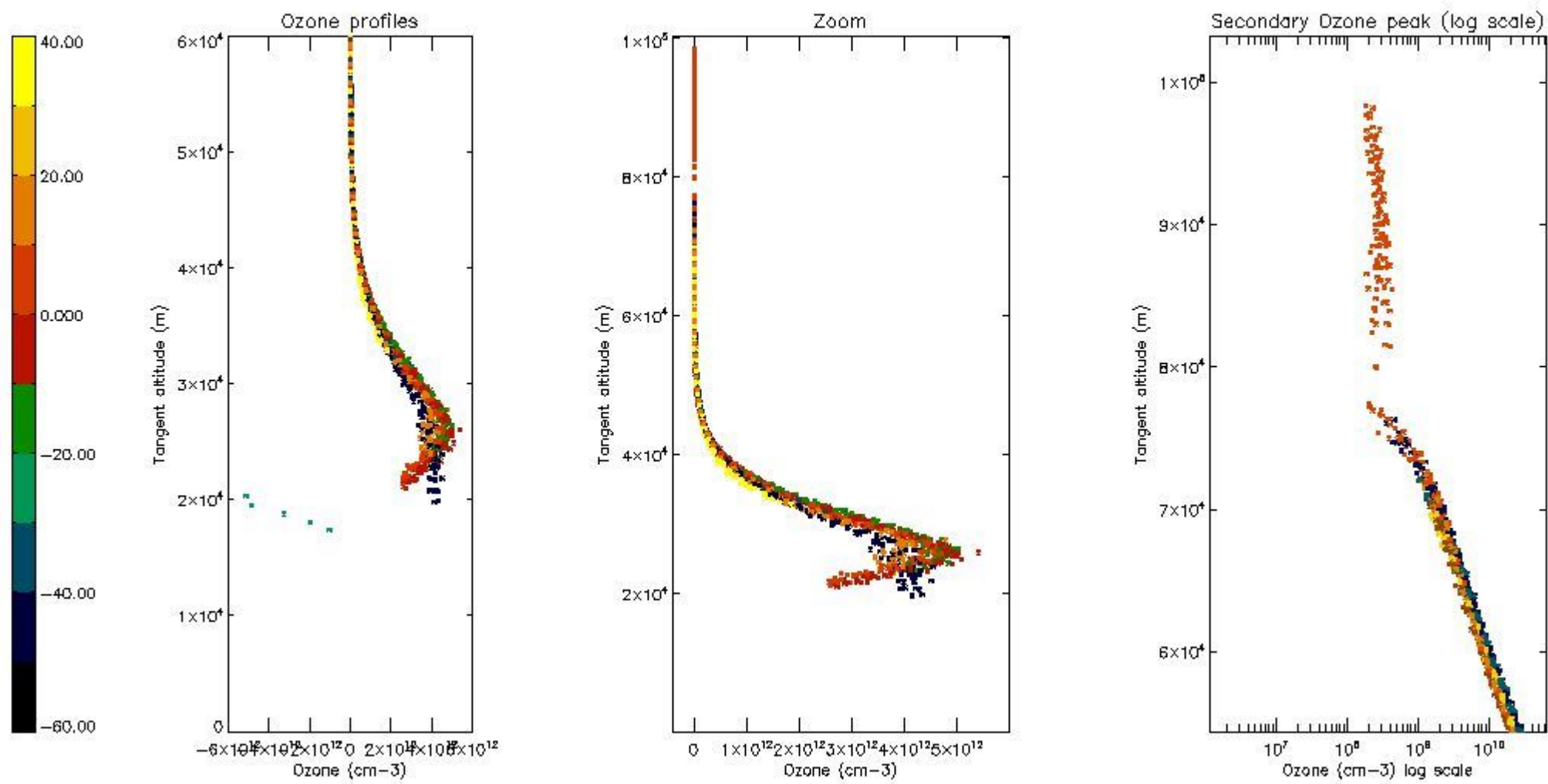
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



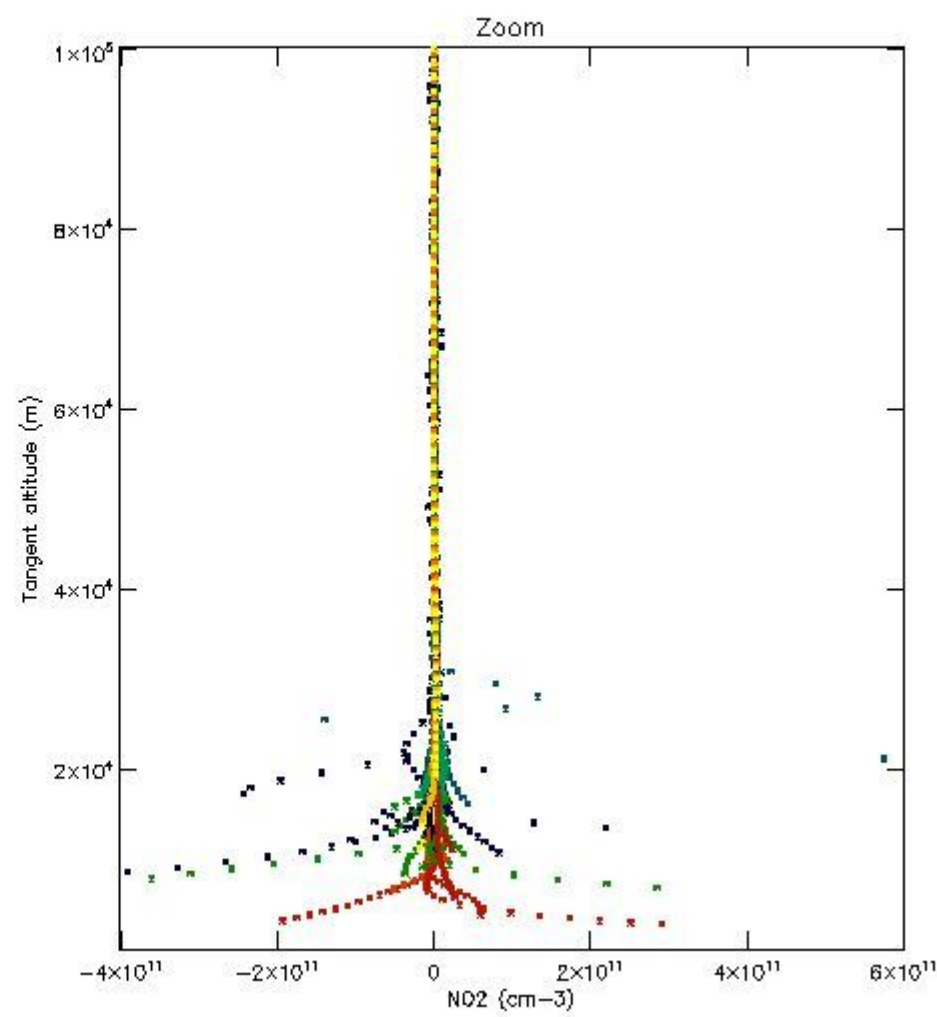
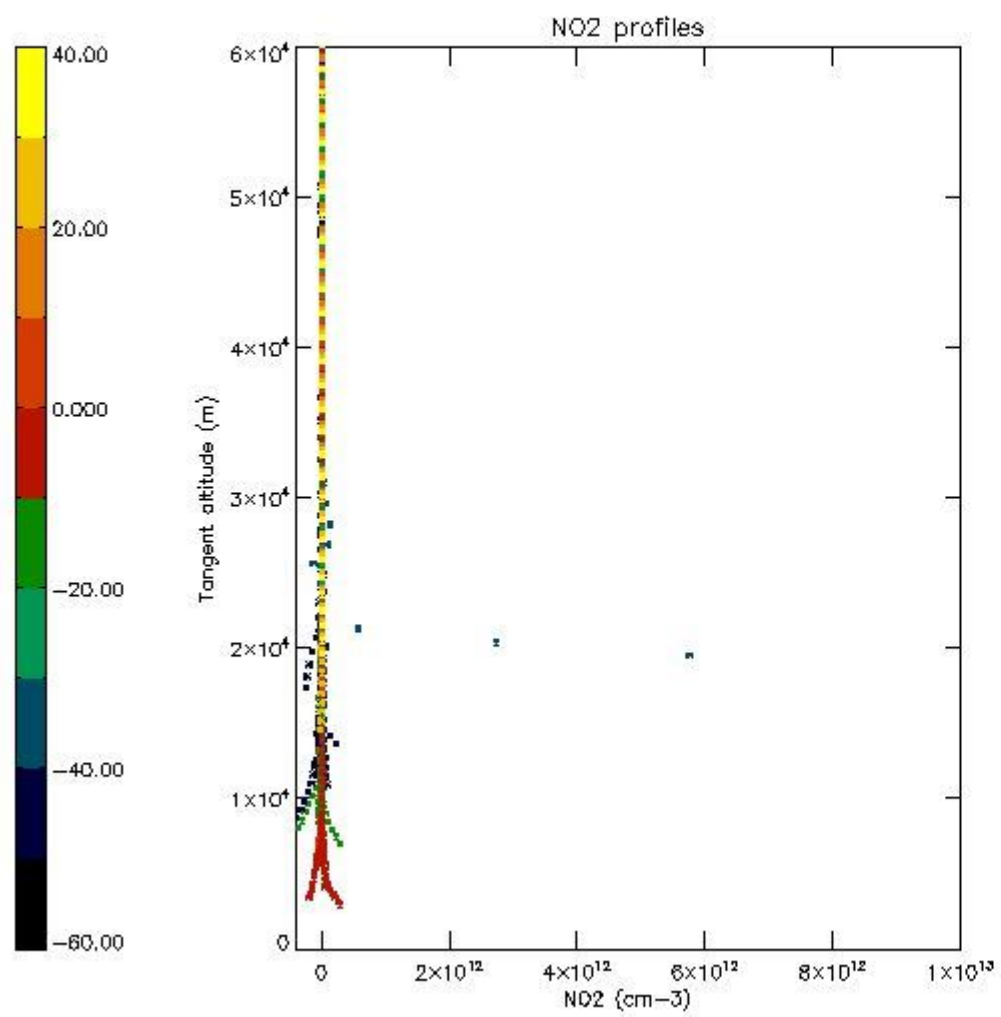
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



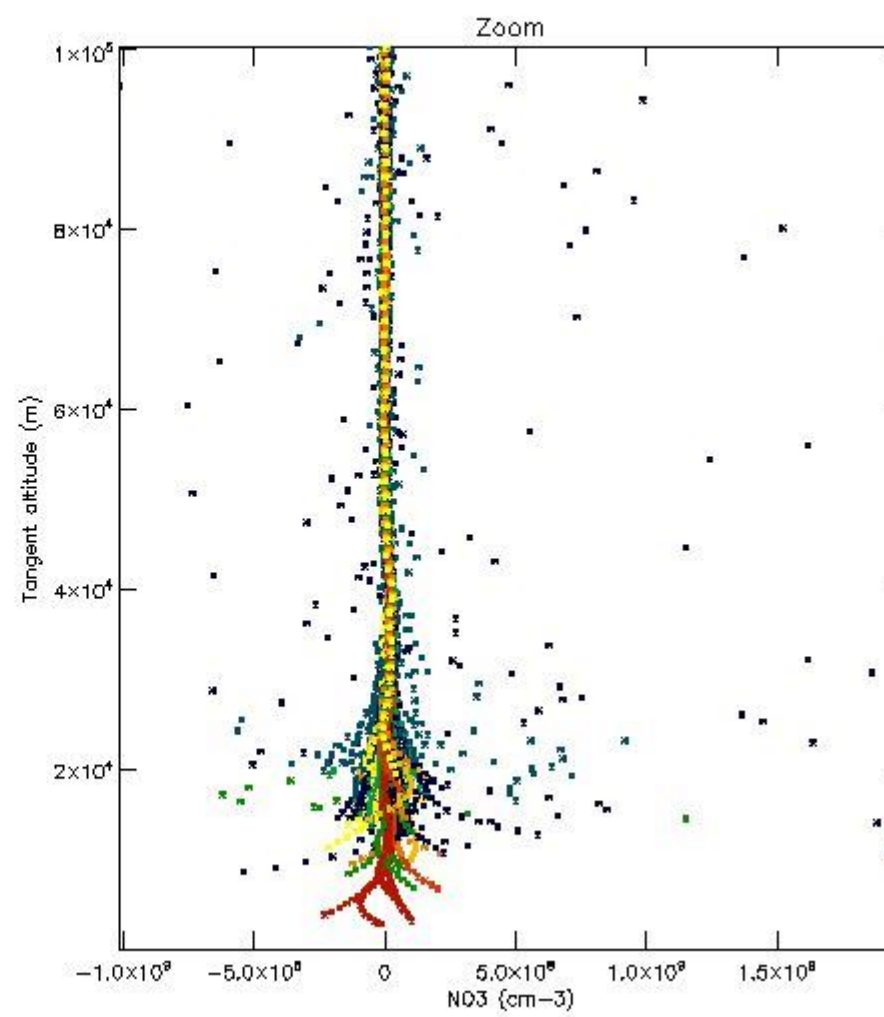
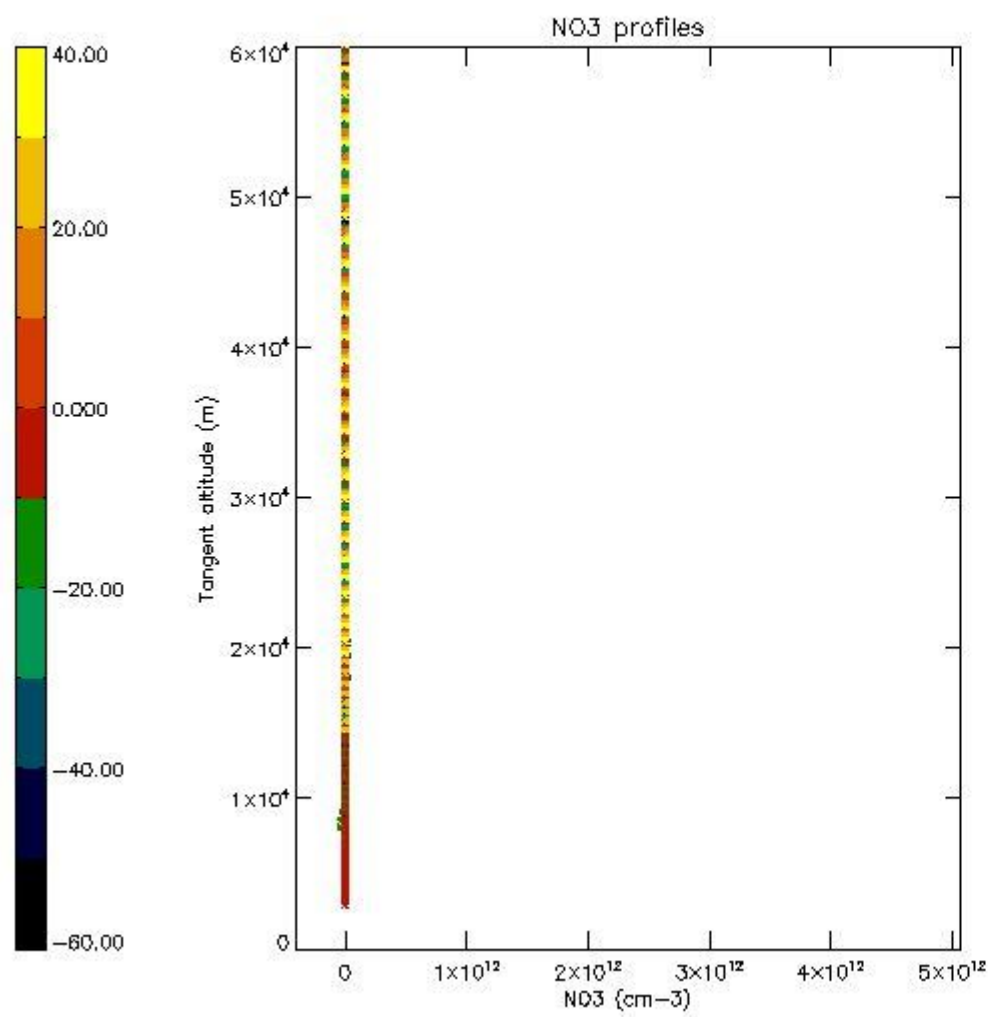
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



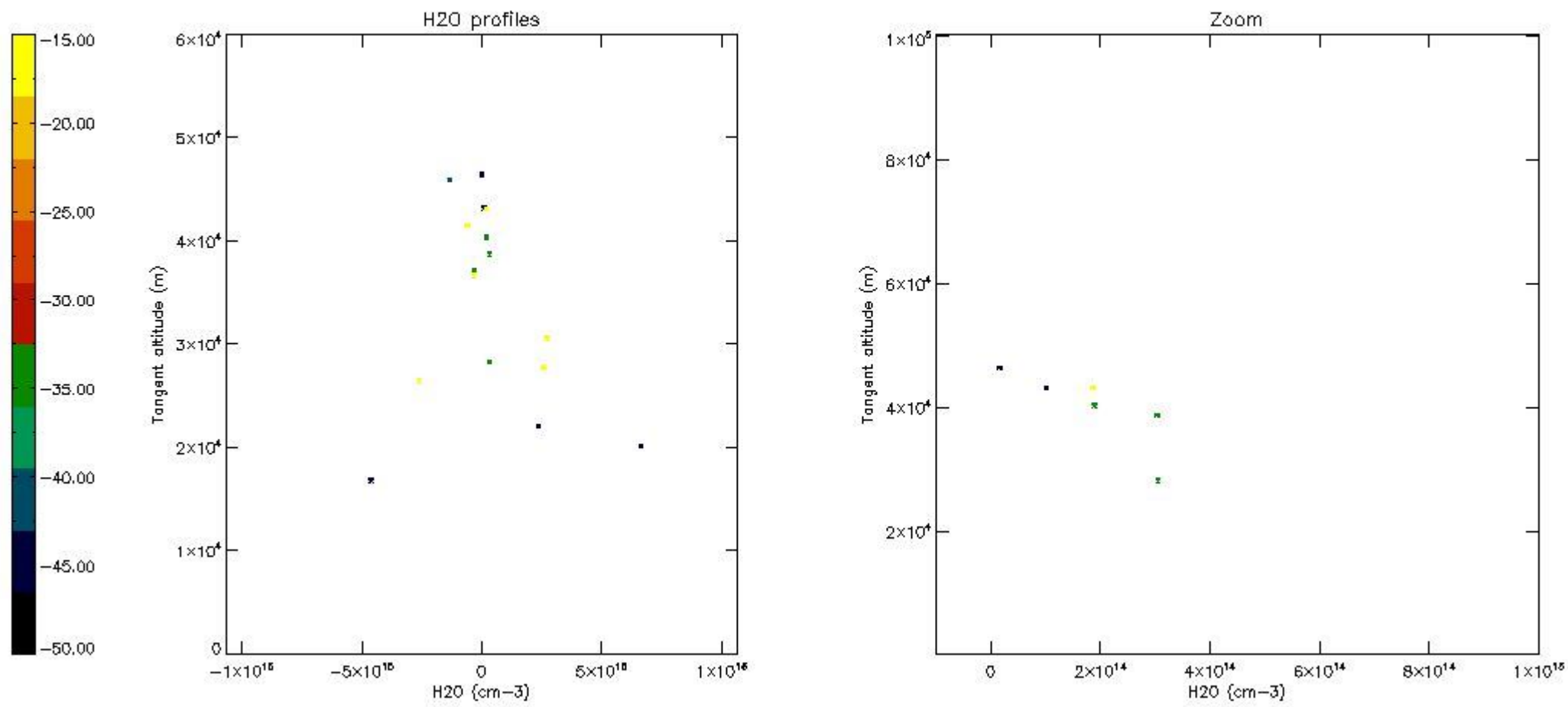
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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)

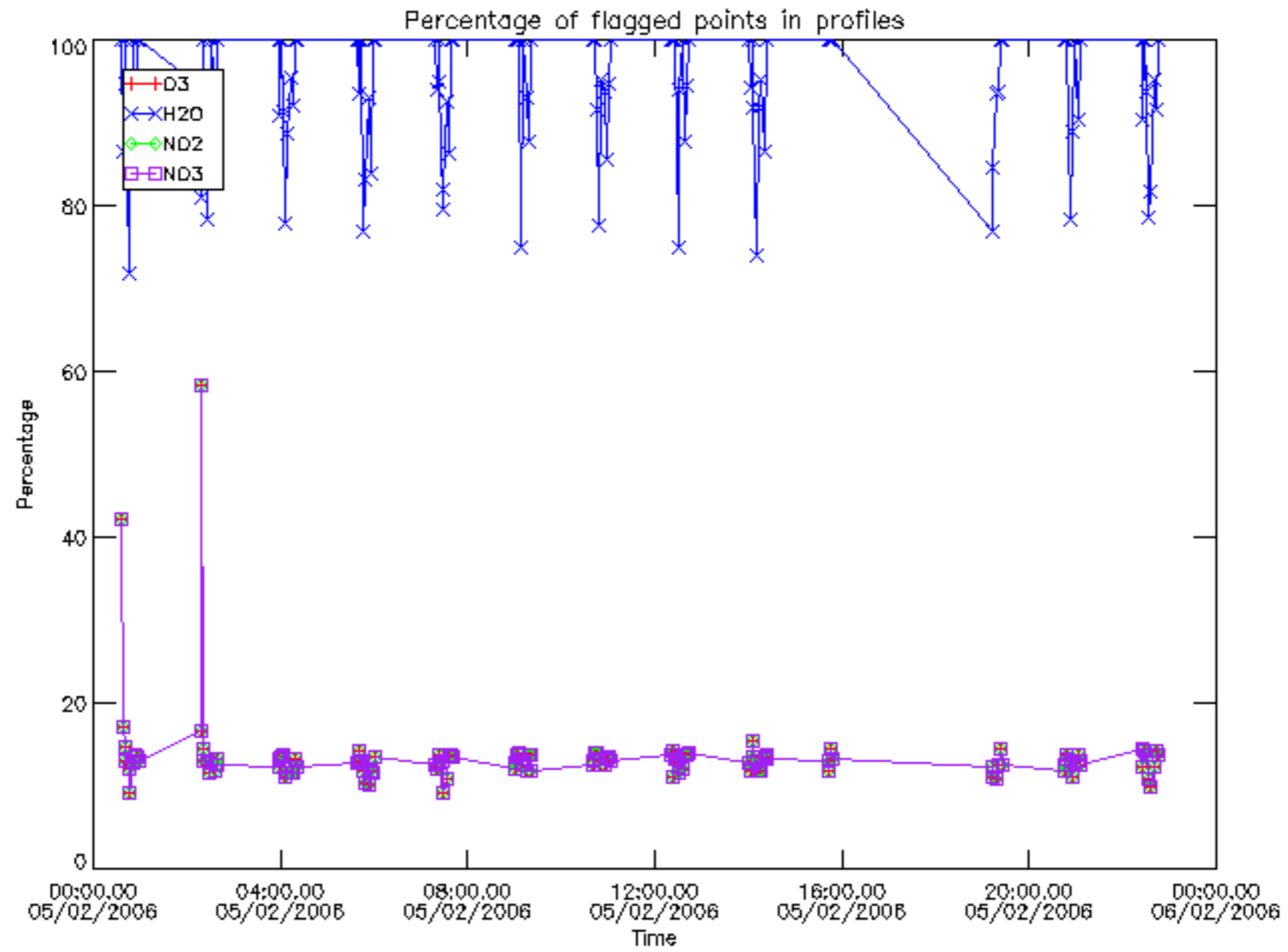
The colorbar represents the latitude.



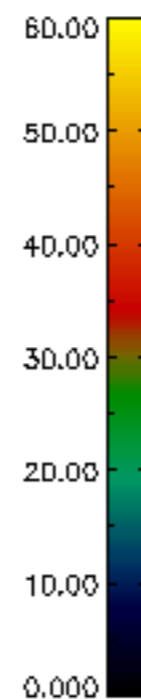
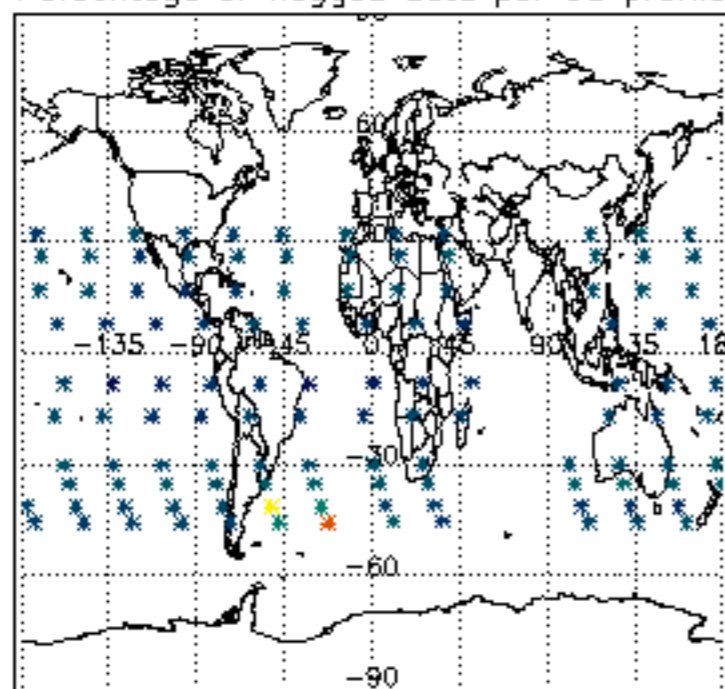
6. Auxiliary Data Files used for the production reported in section 2

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.

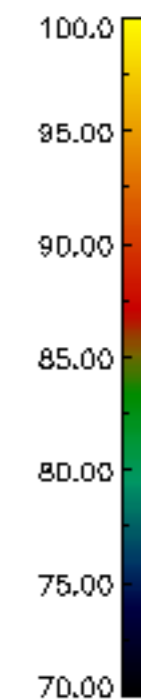
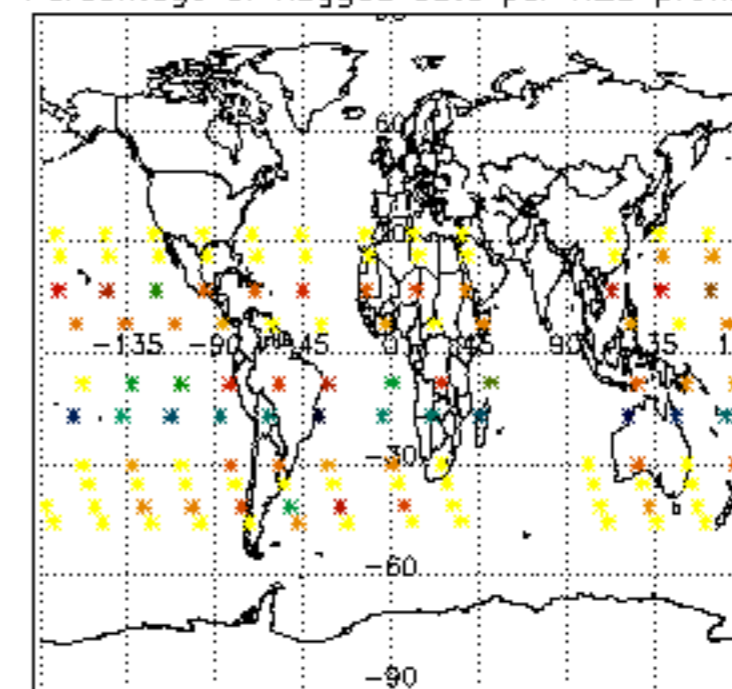
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	05-FEB-2006 00:12:13
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	05-FEB-2006 00:12:13
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	05-FEB-2006 00:12:13



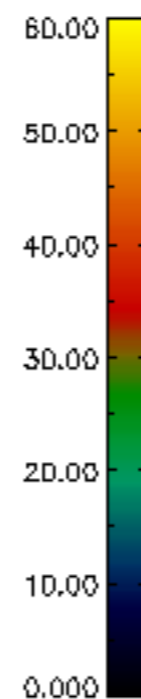
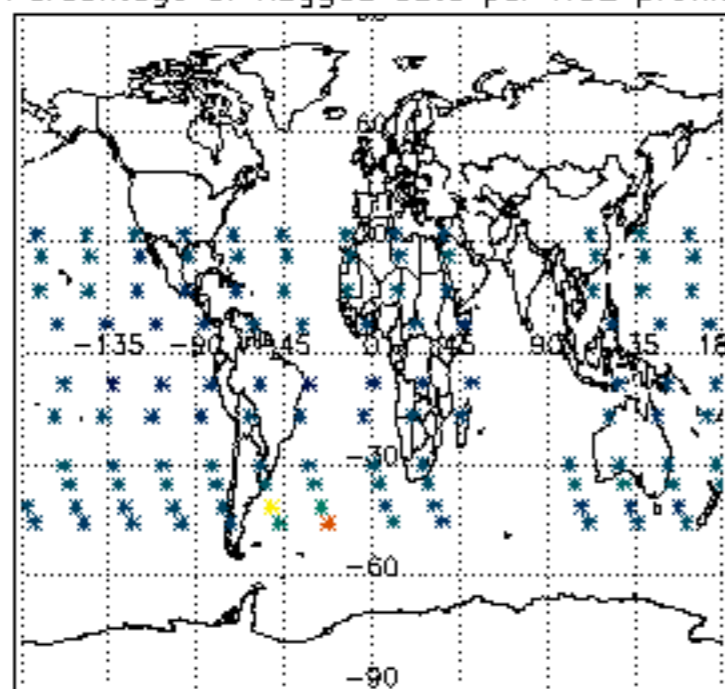
Percentage of flagged data per D3 profile



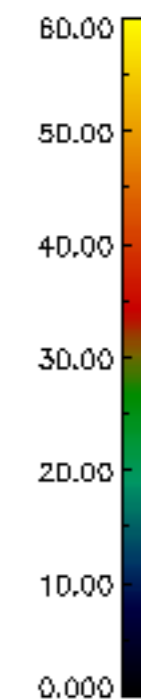
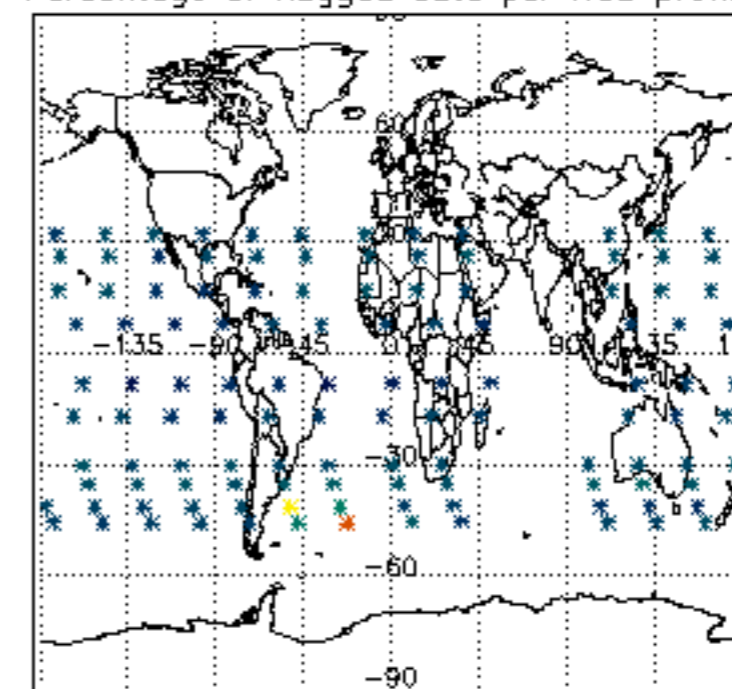
Percentage of flagged data per H2O profile

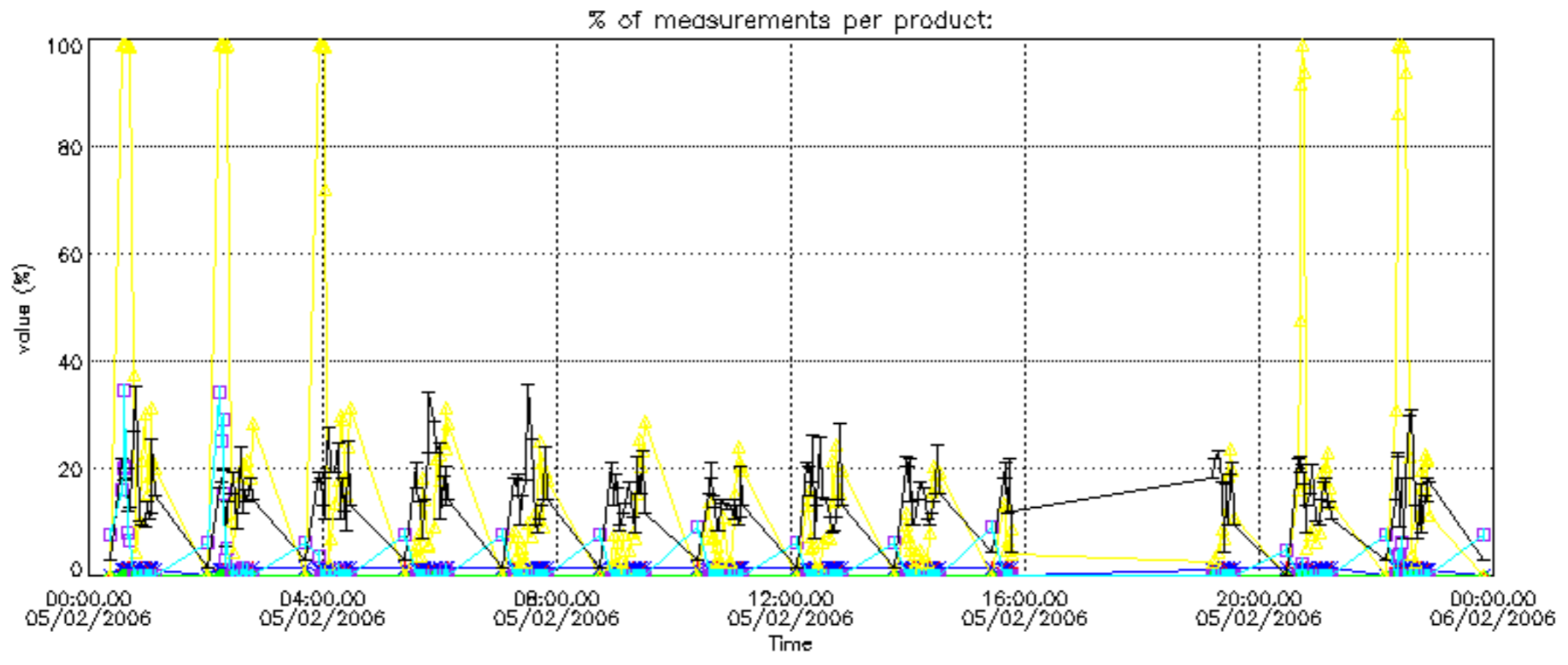


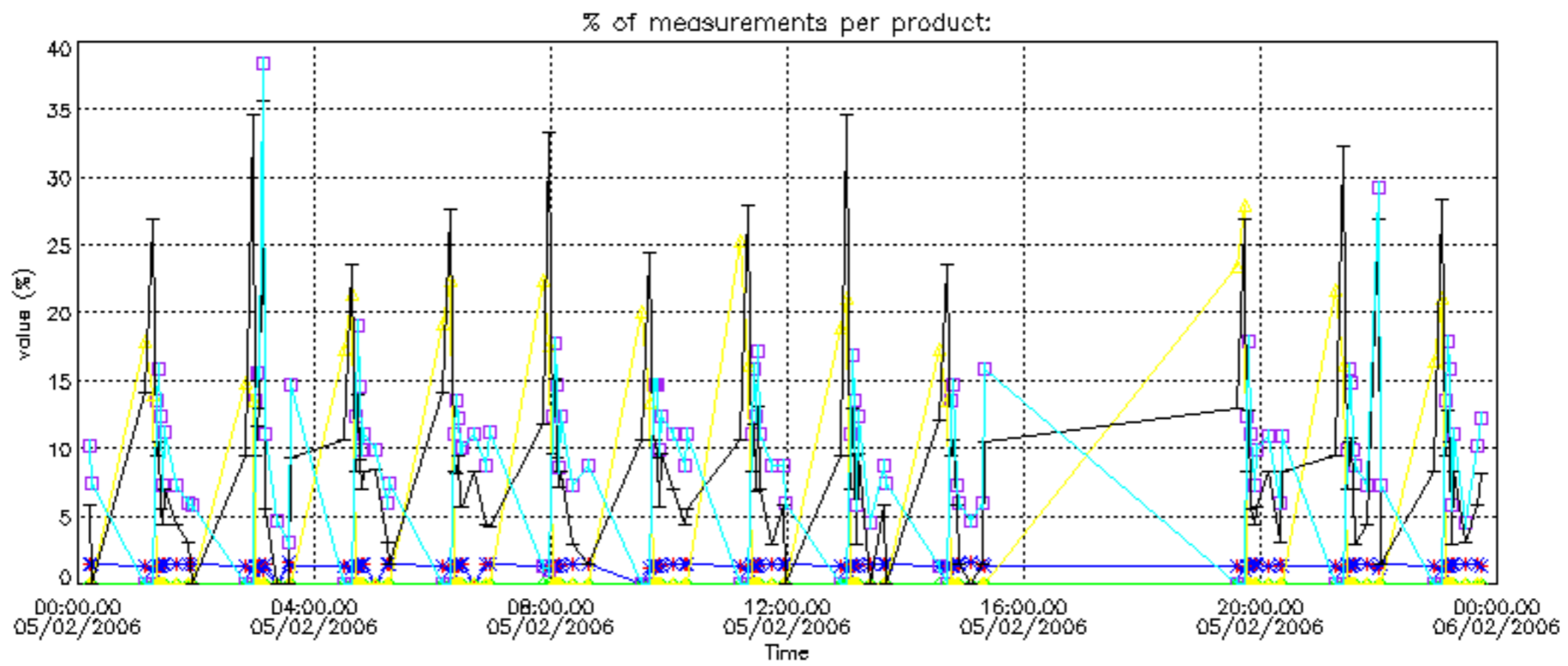
Percentage of flagged data per NO2 profile



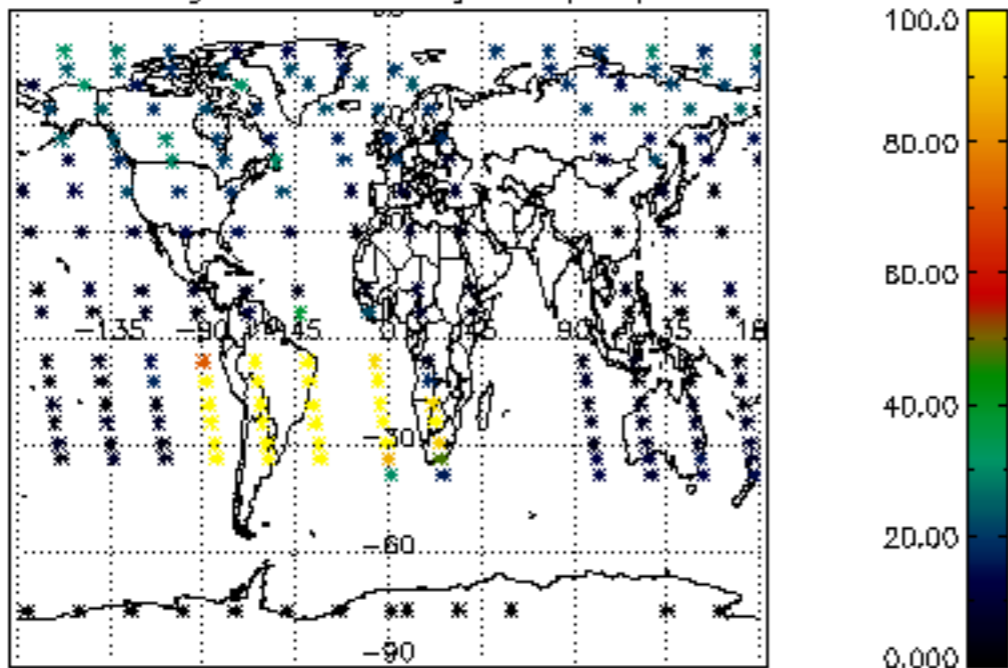
Percentage of flagged data per NO3 profile



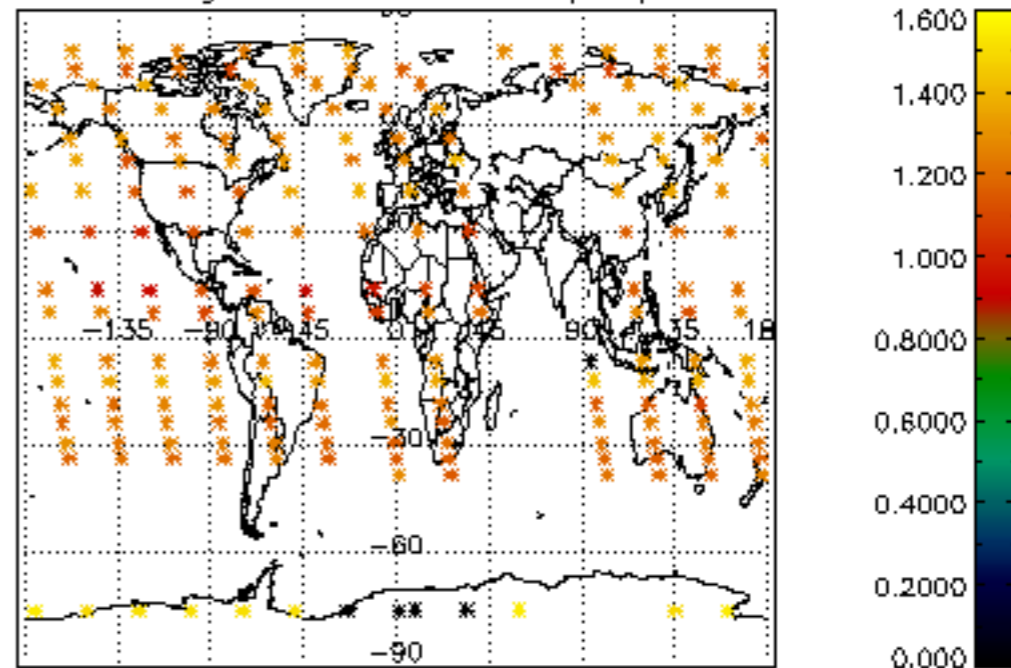




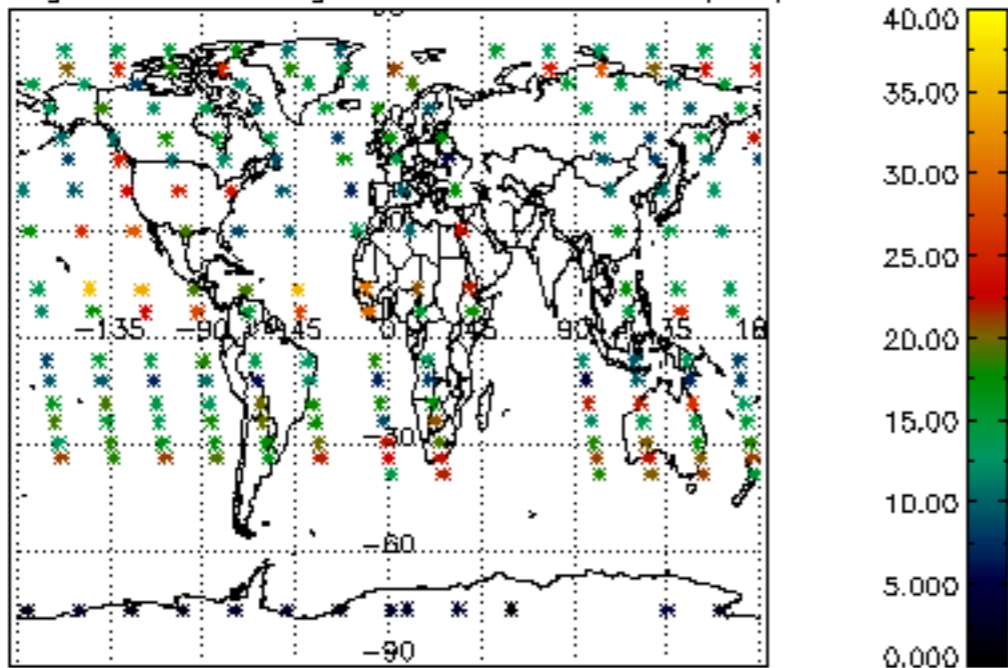
Percentage of cosmic ray hits per profile



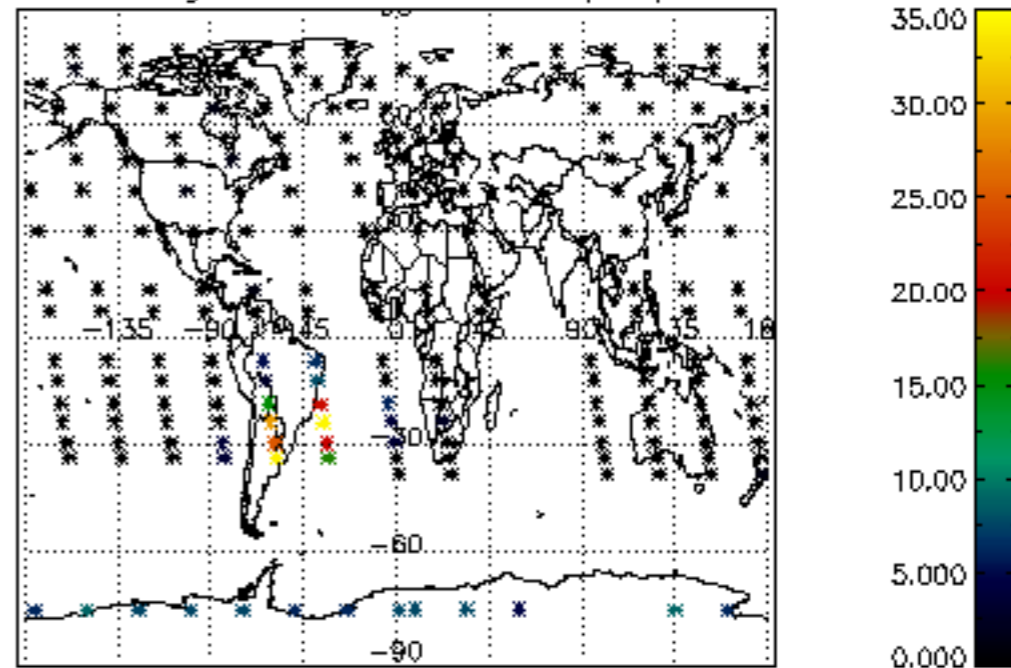
Percentage of datation errors per profile



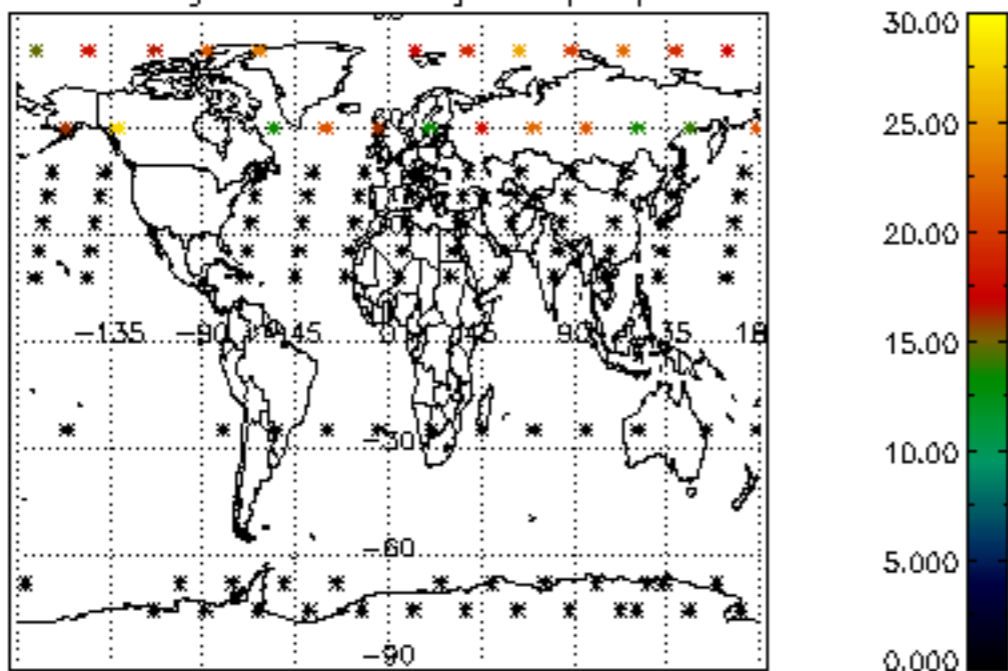
Percentage of star falling outside central band per profile



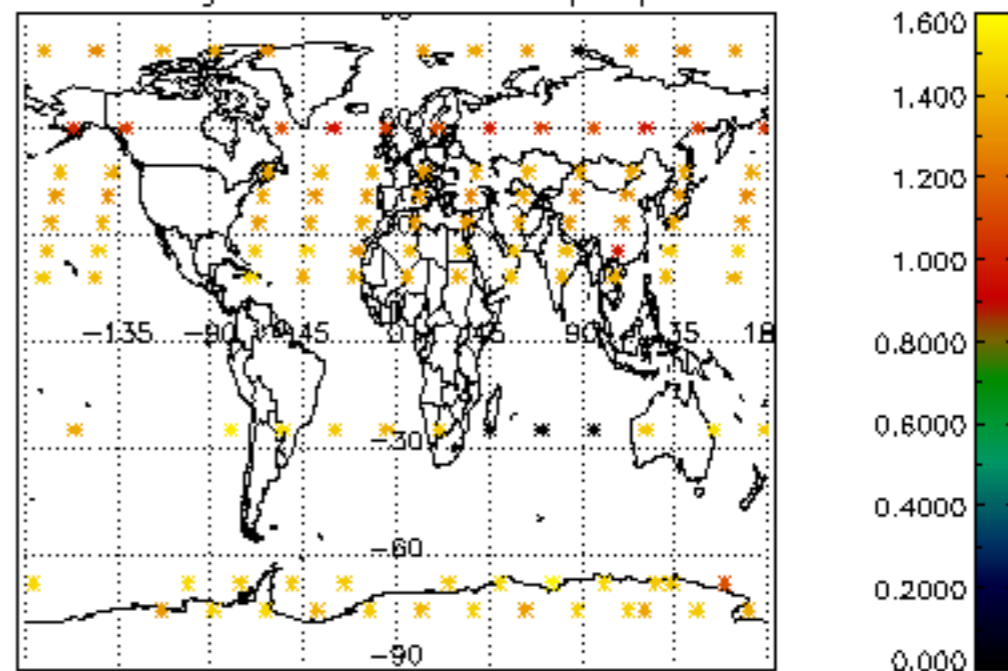
Percentage of saturation errors per profile



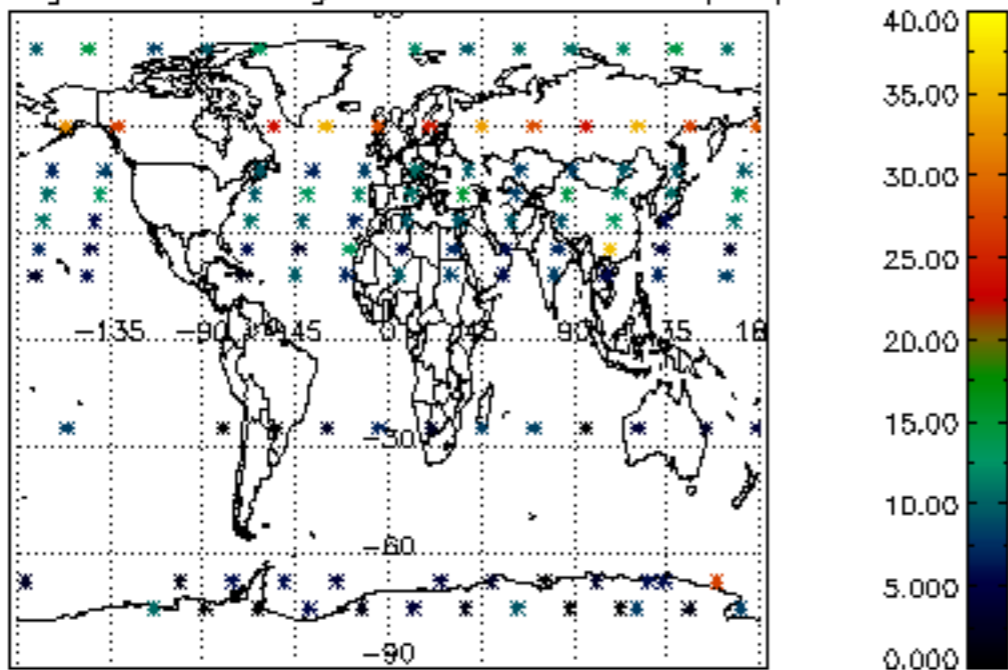
Percentage of cosmic ray hits per profile



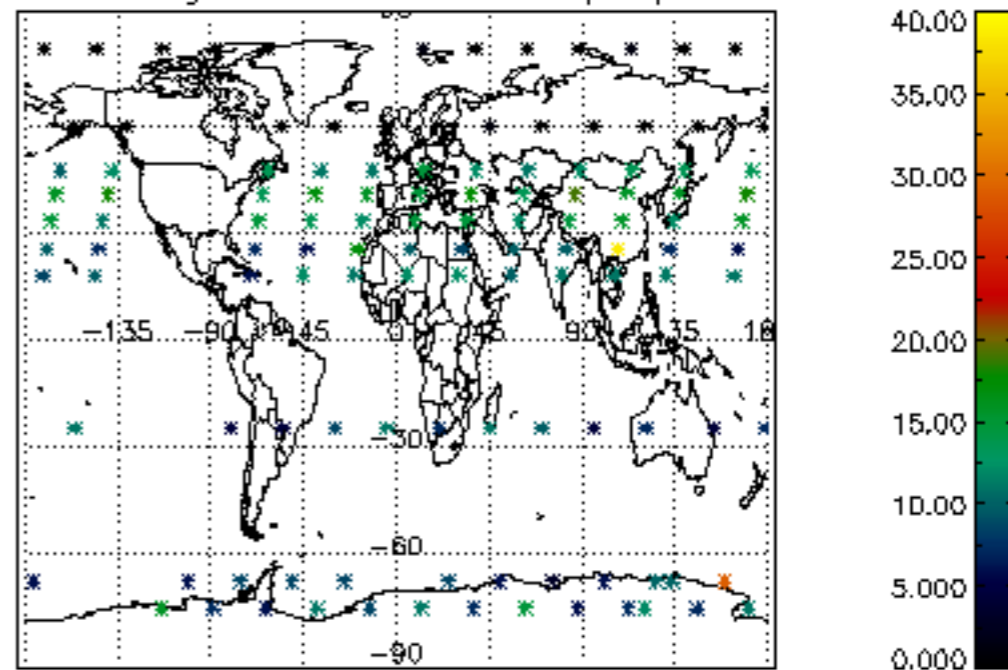
Percentage of datation errors per profile

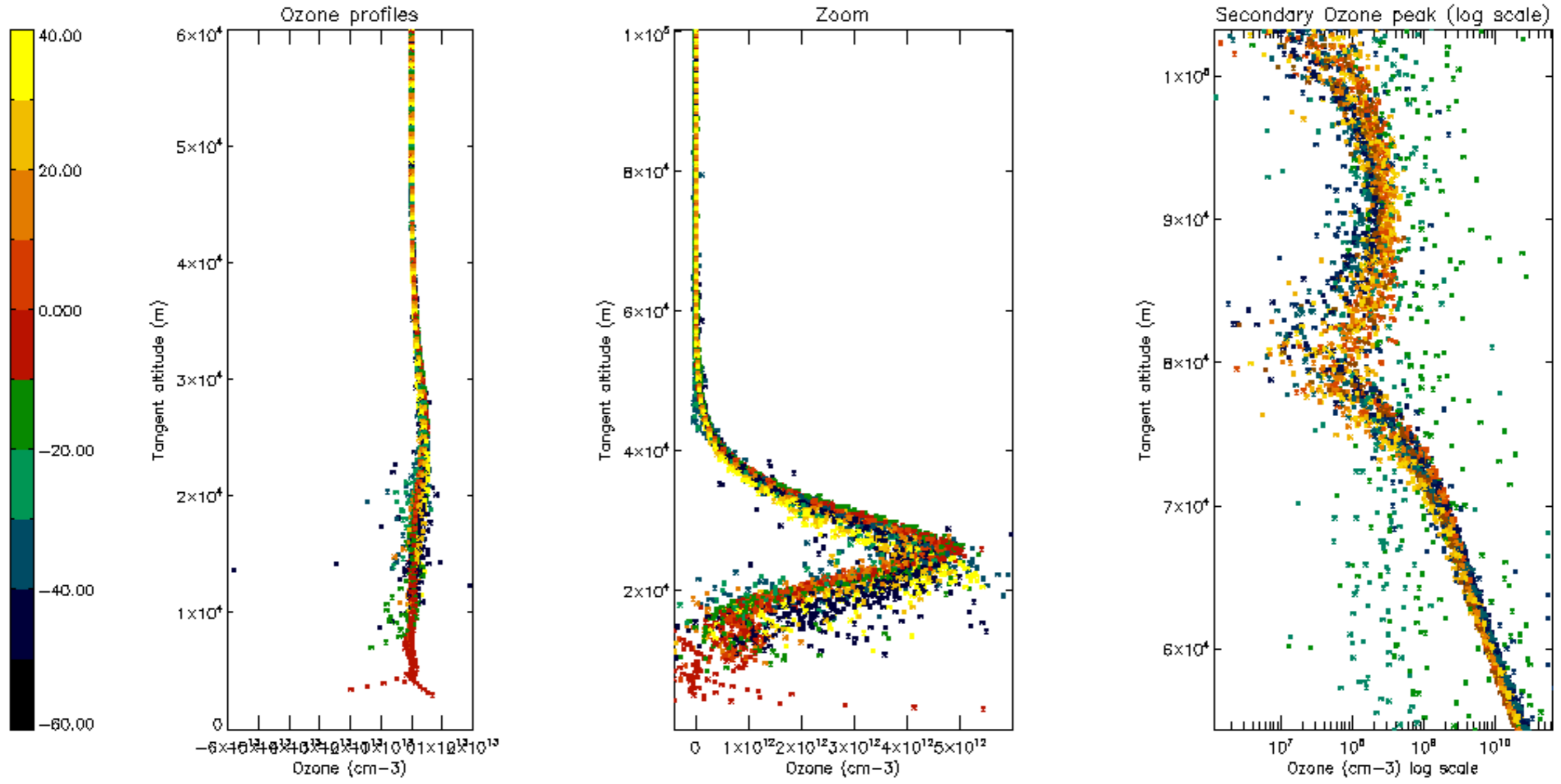


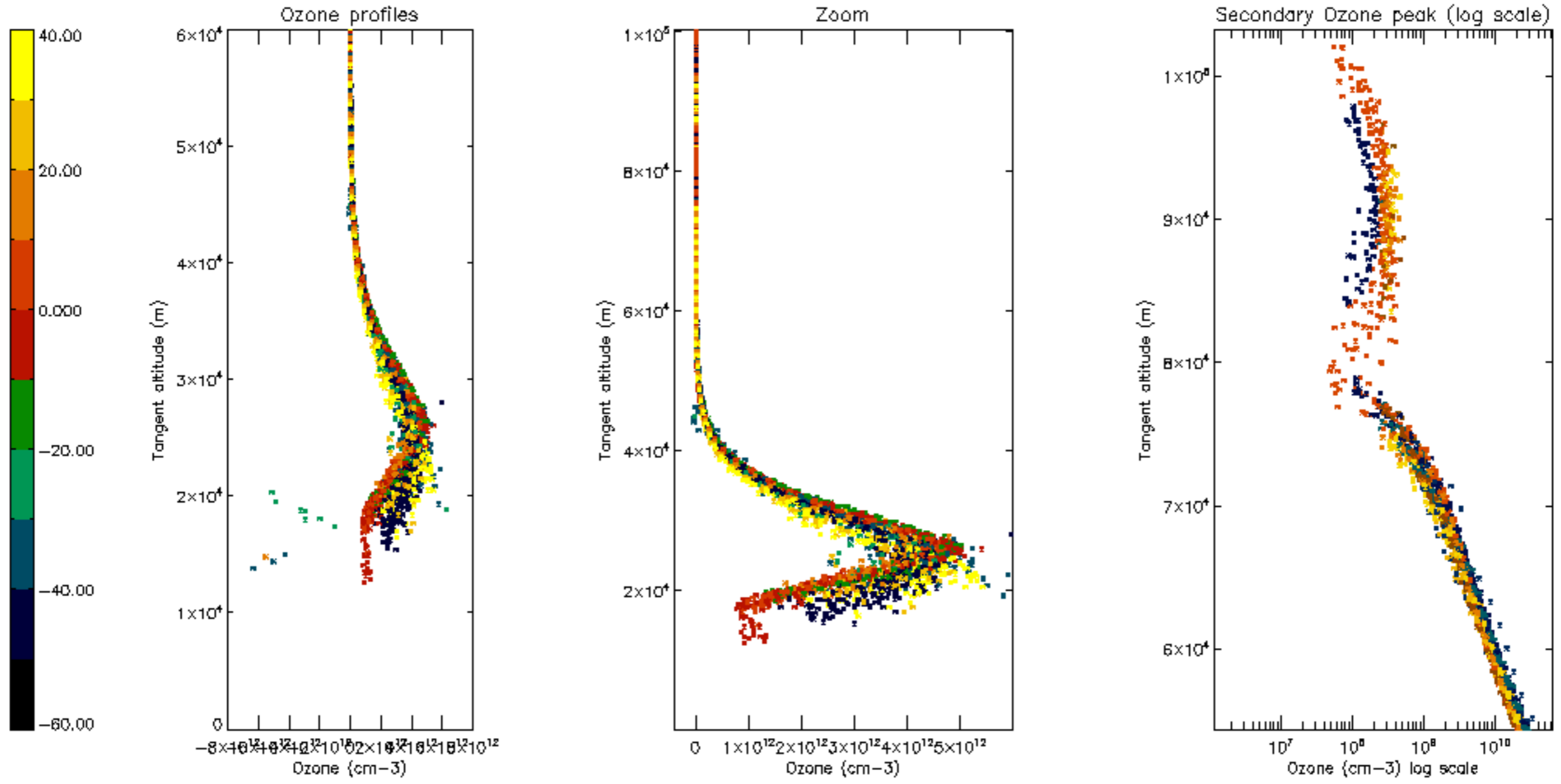
Percentage of star falling outside central band per profile

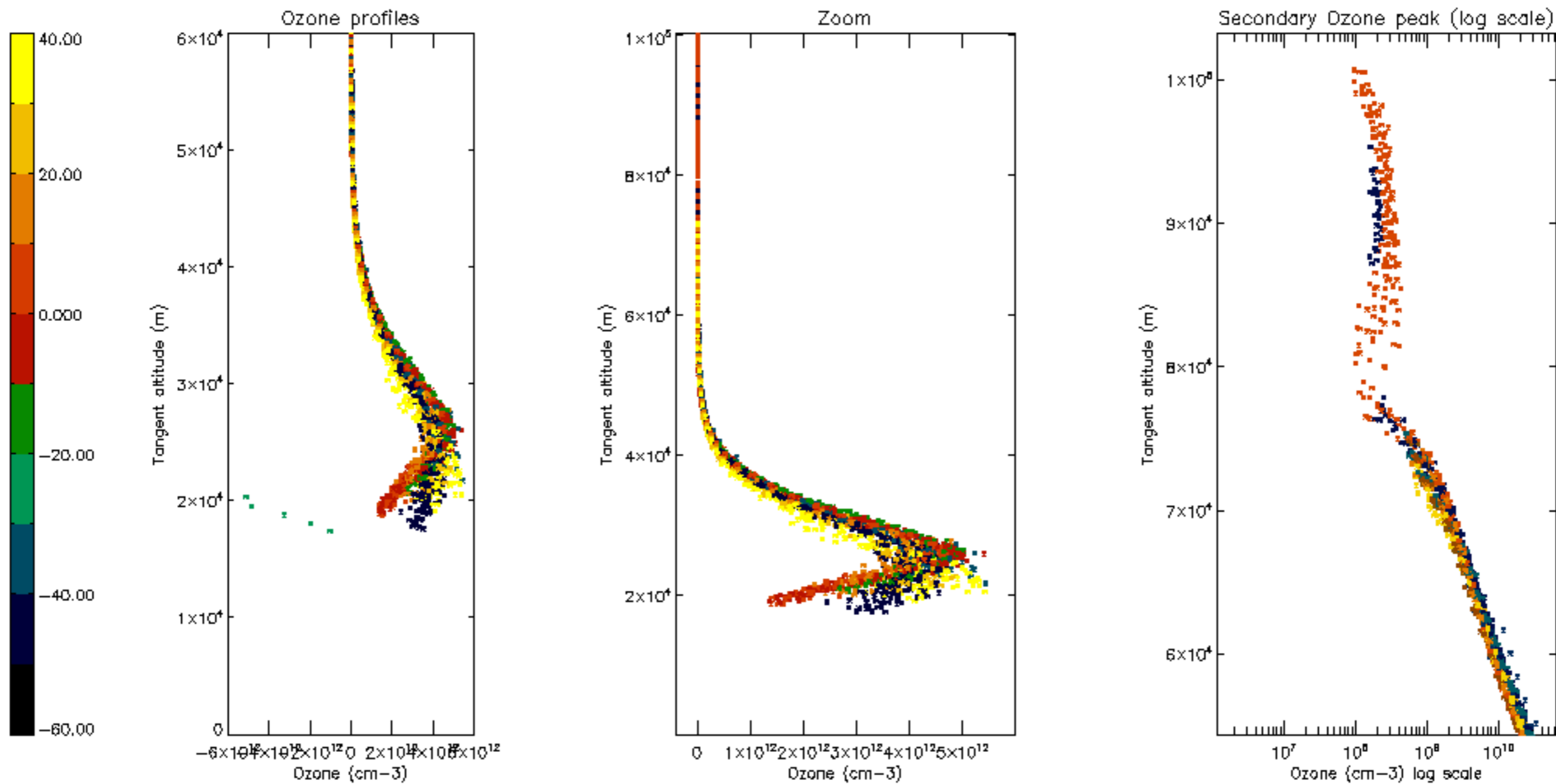


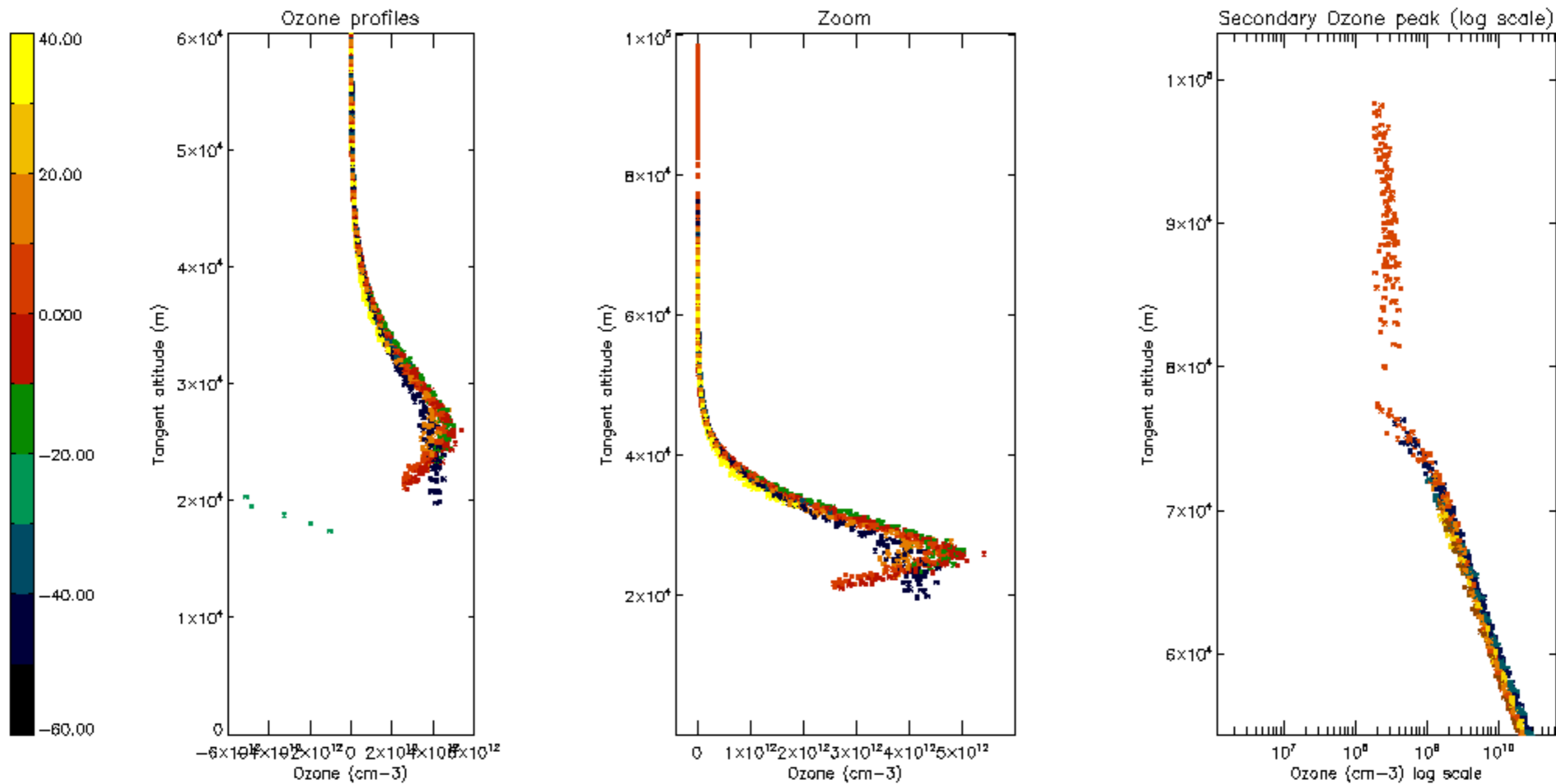
Percentage of saturation errors per profile

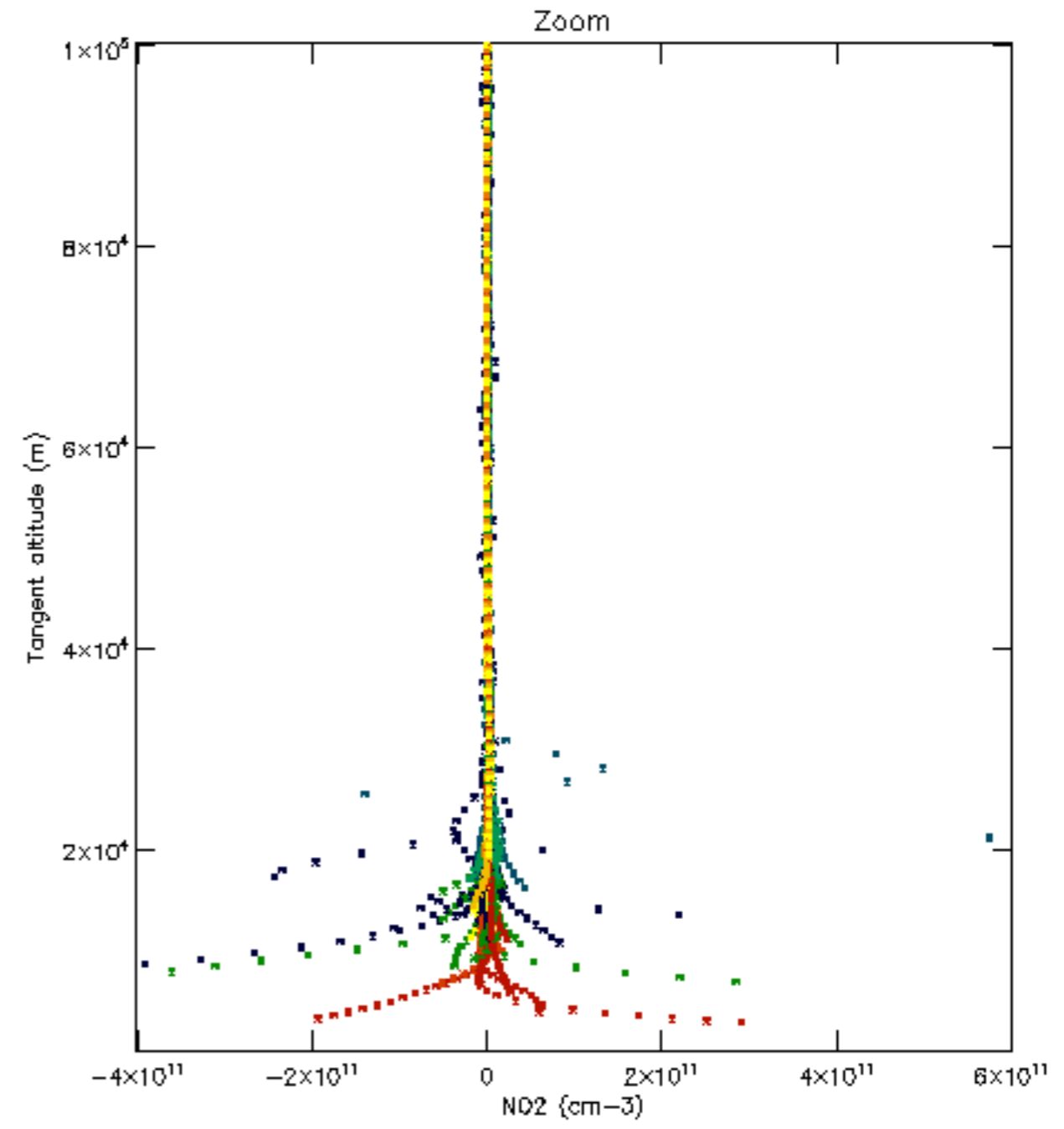
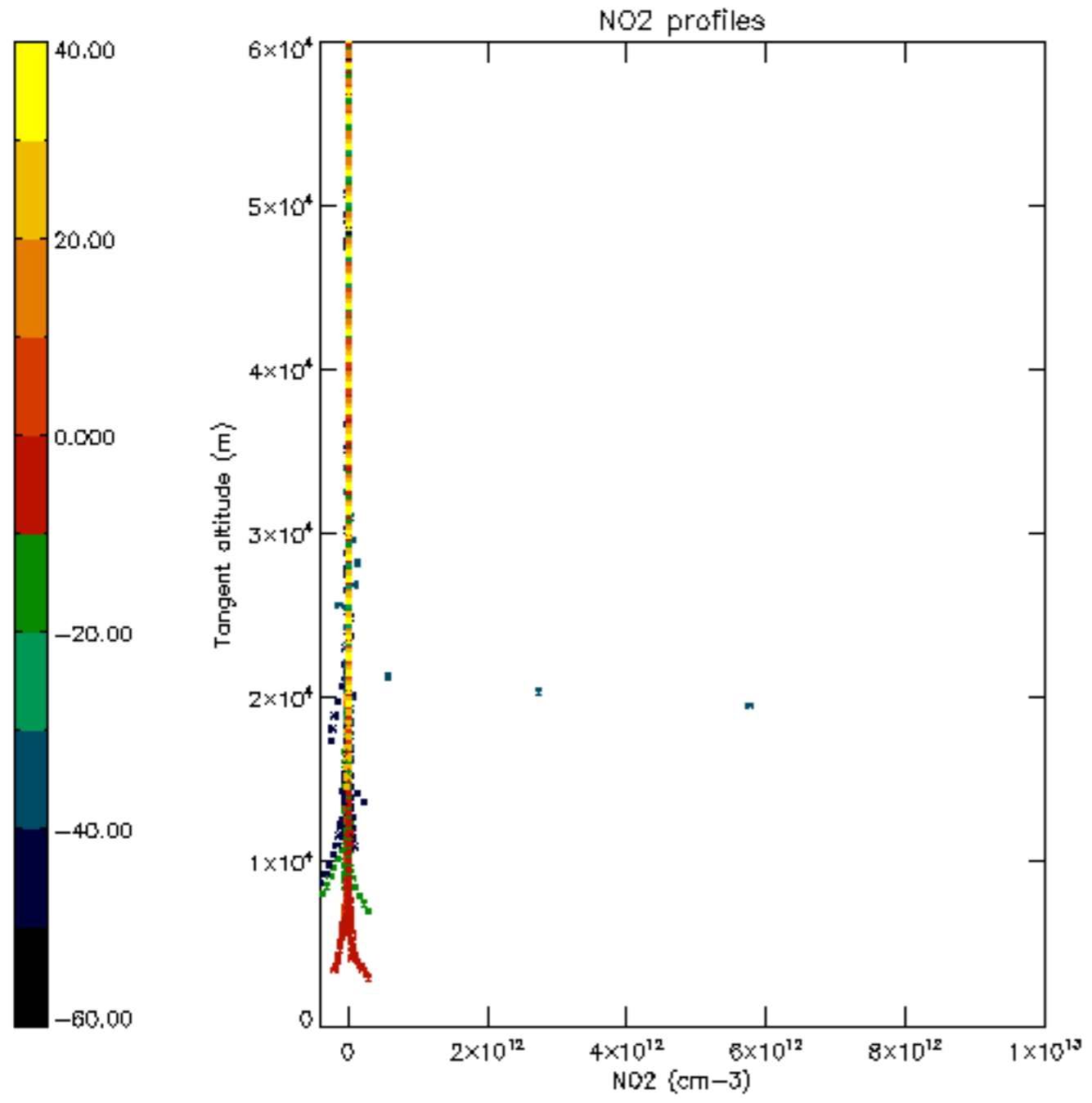


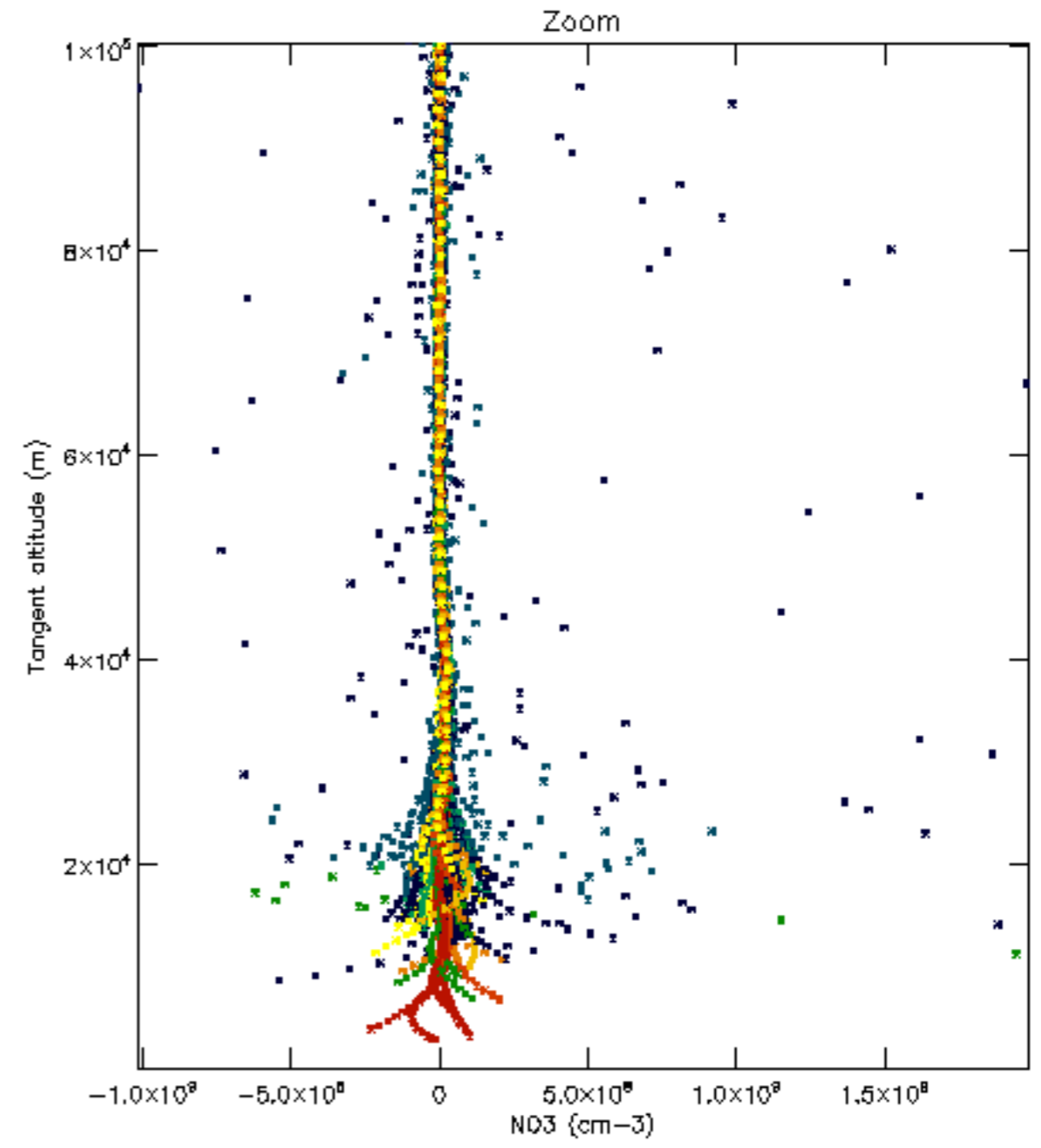
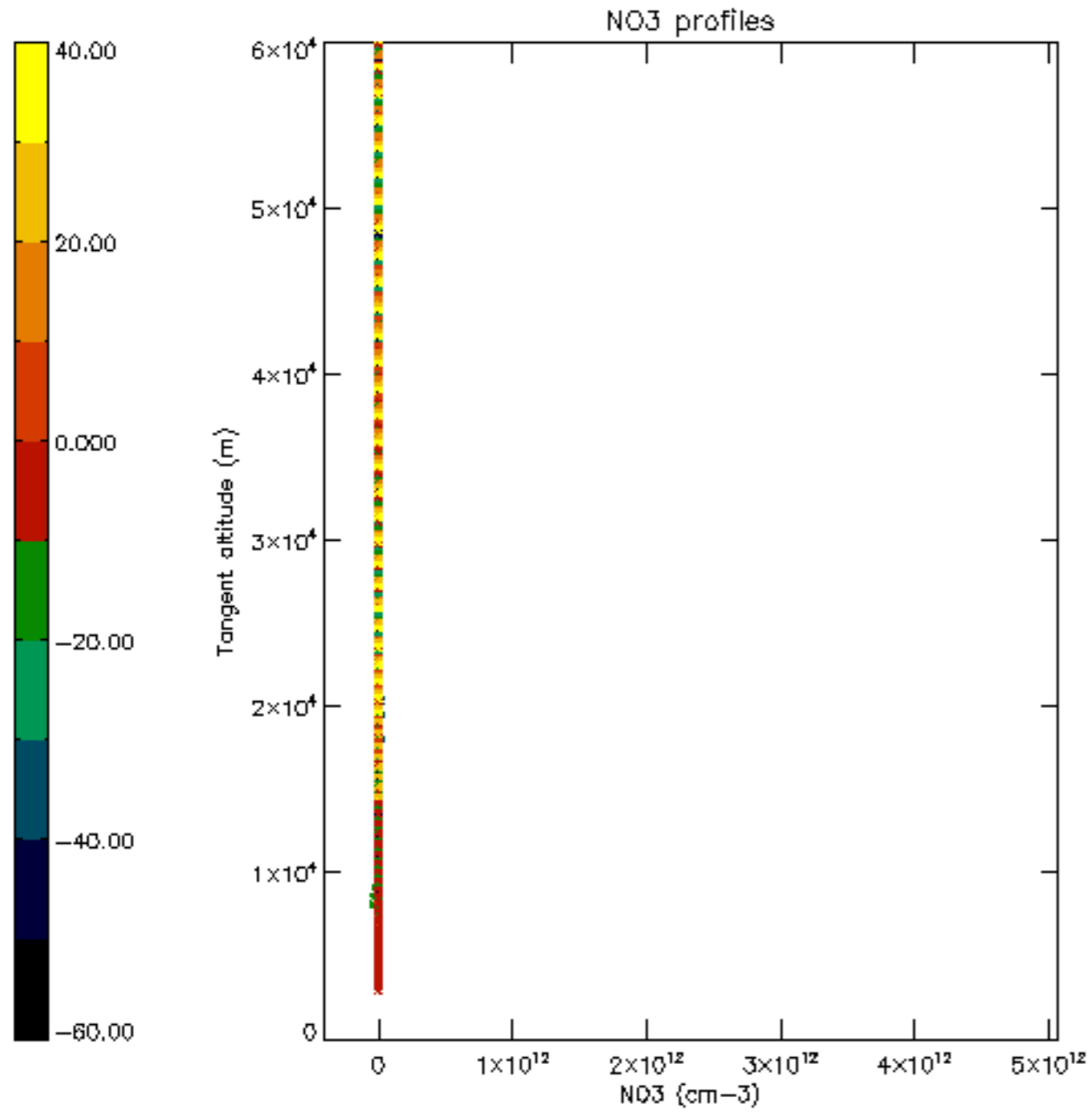


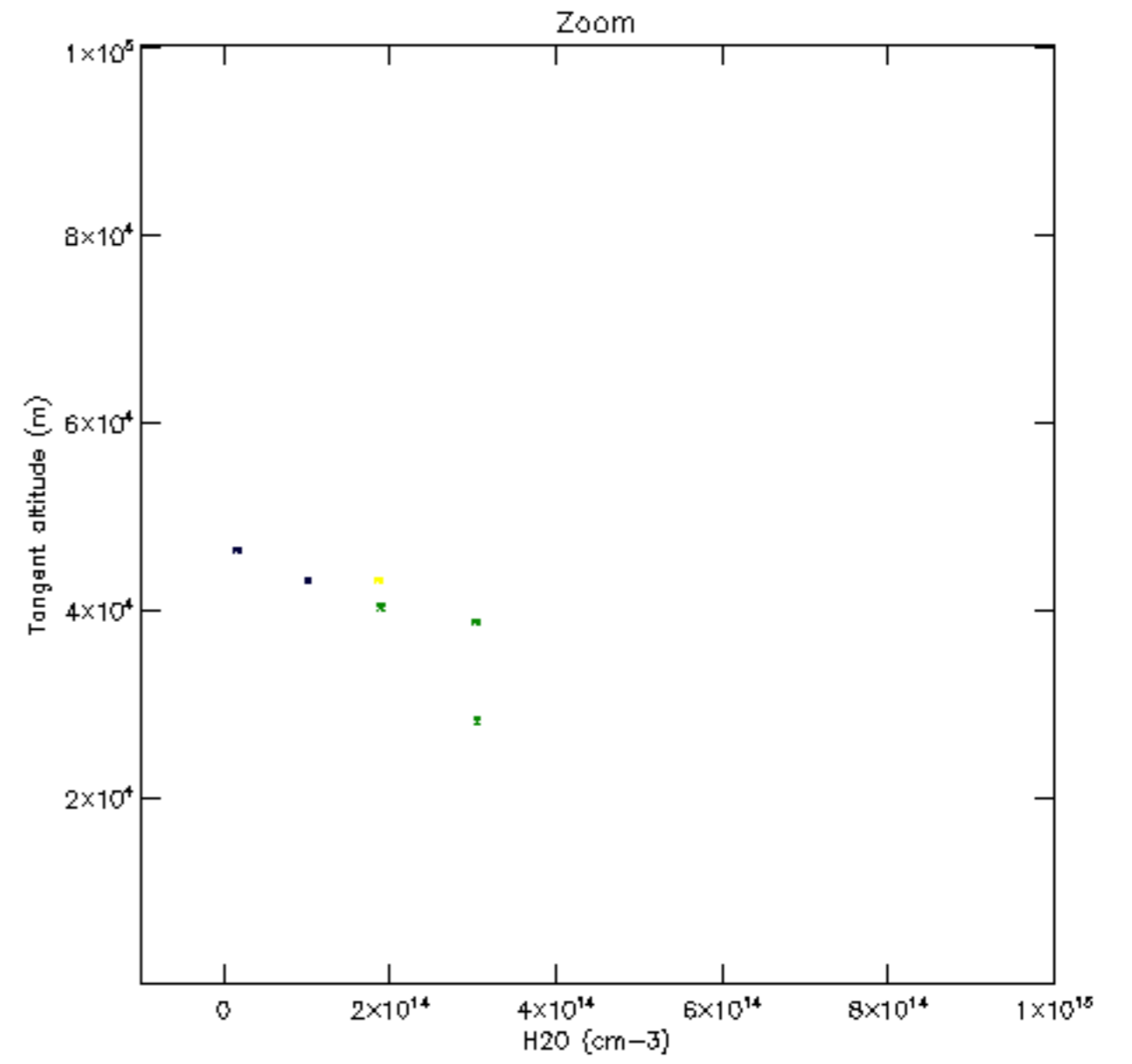
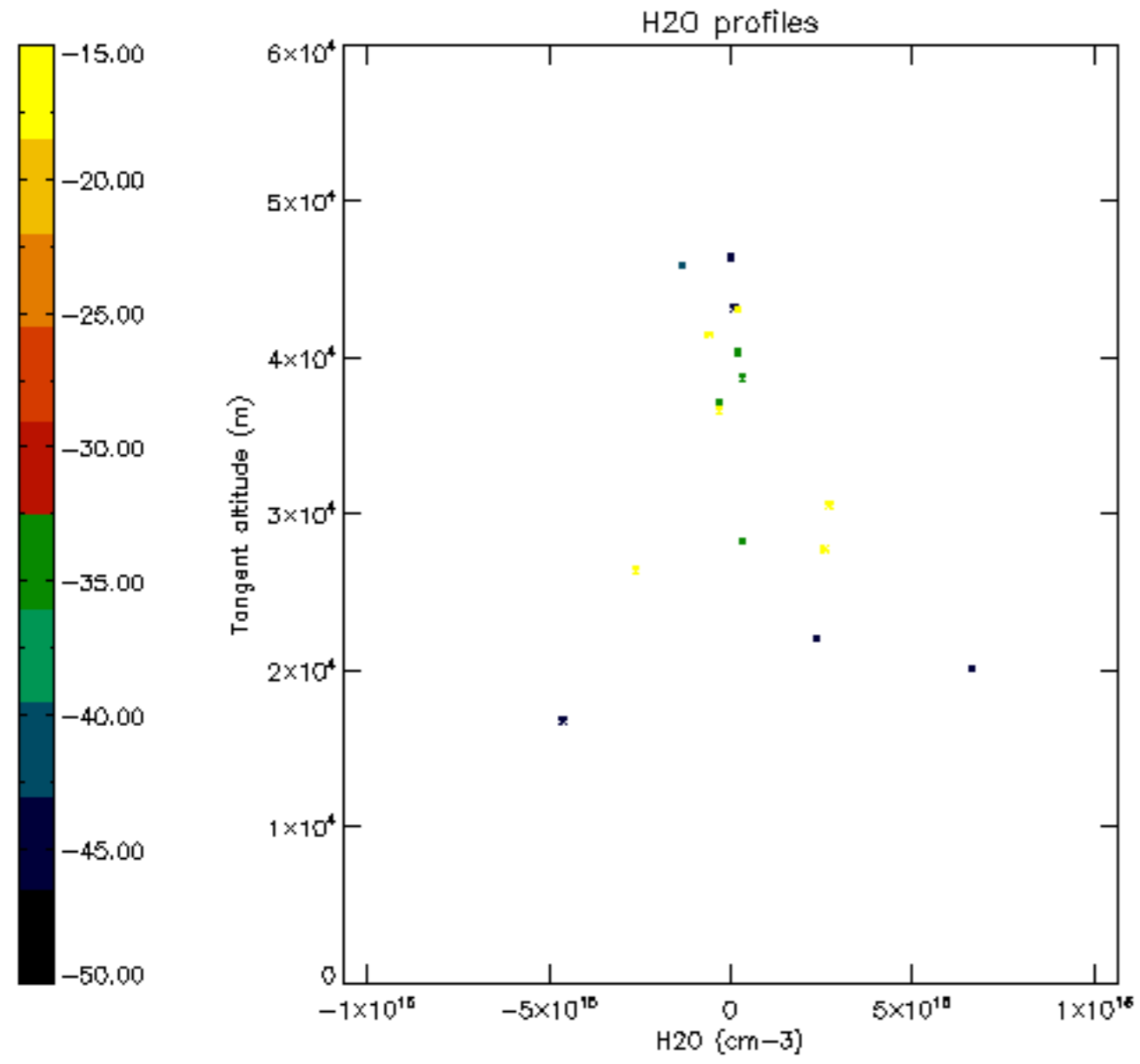


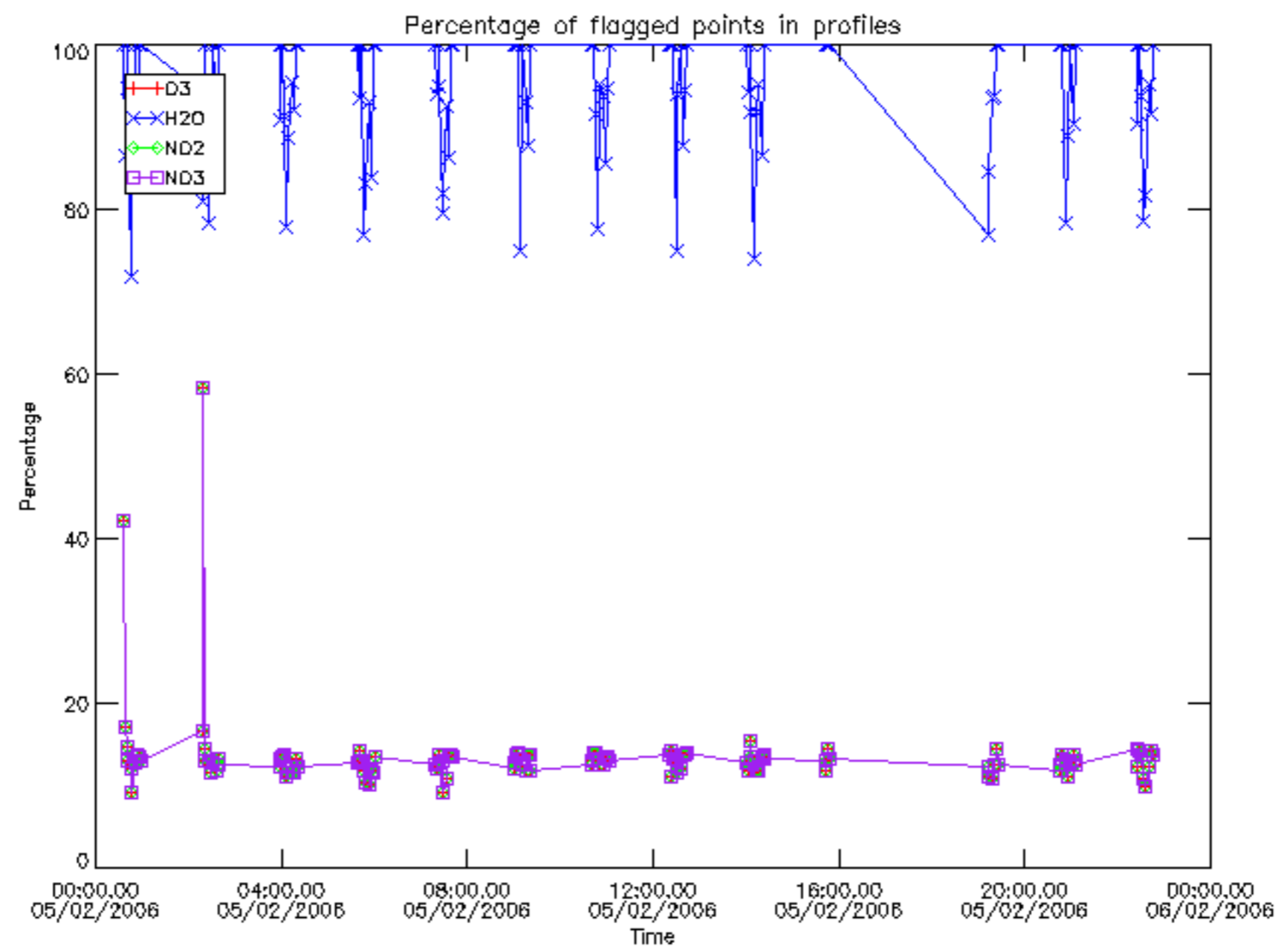




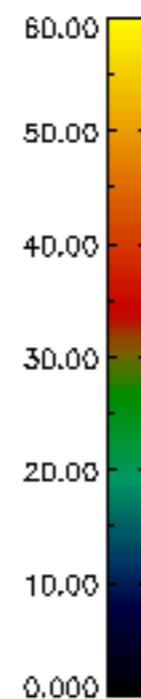
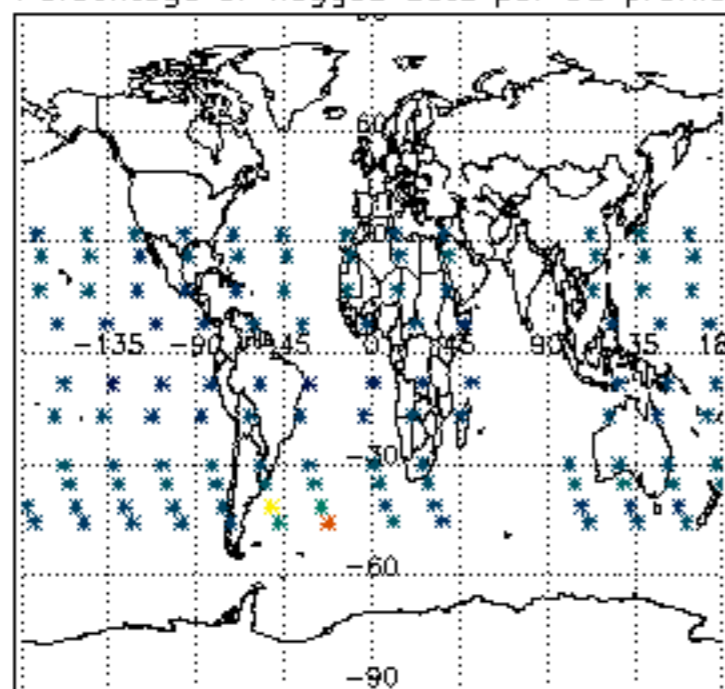




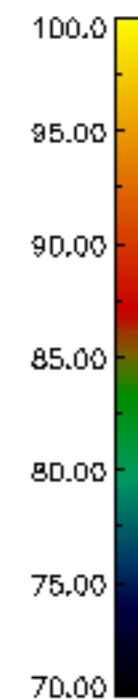
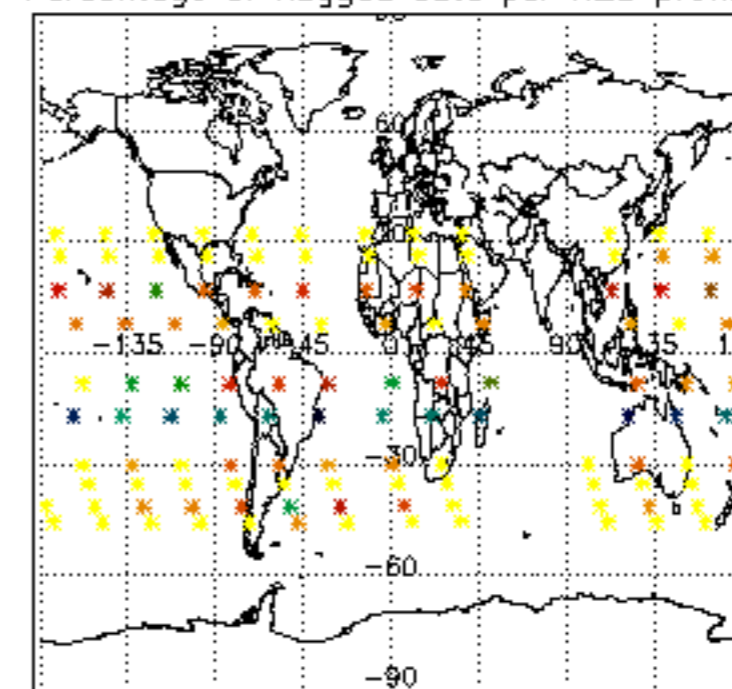




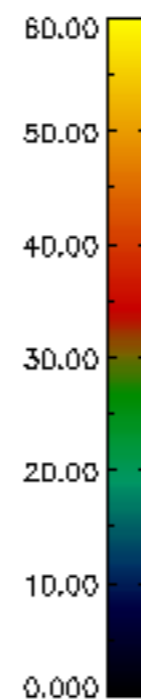
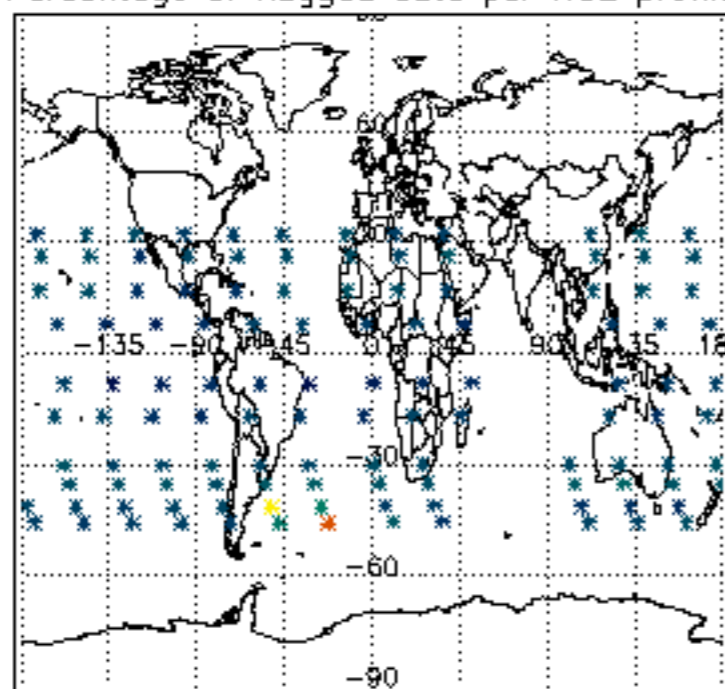
Percentage of flagged data per D3 profile



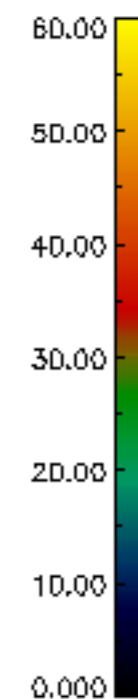
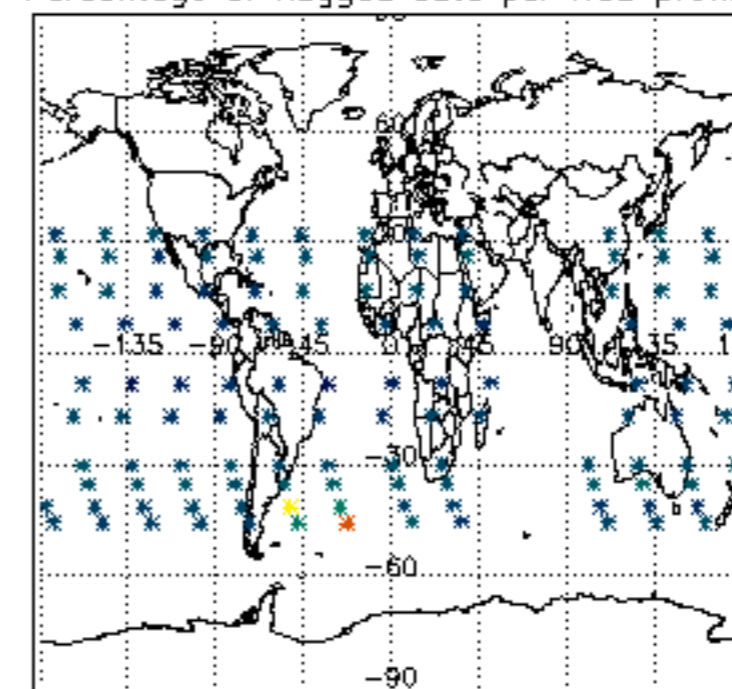
Percentage of flagged data per H2O profile

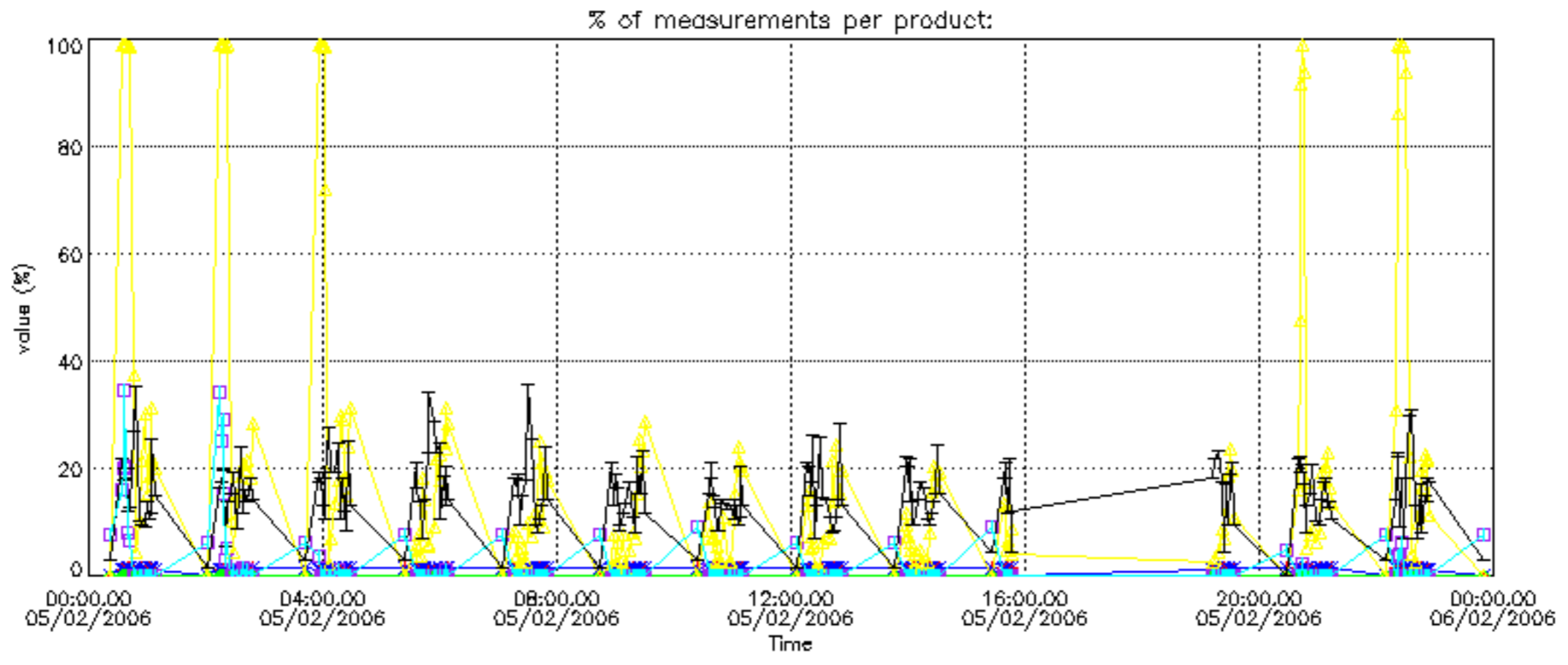


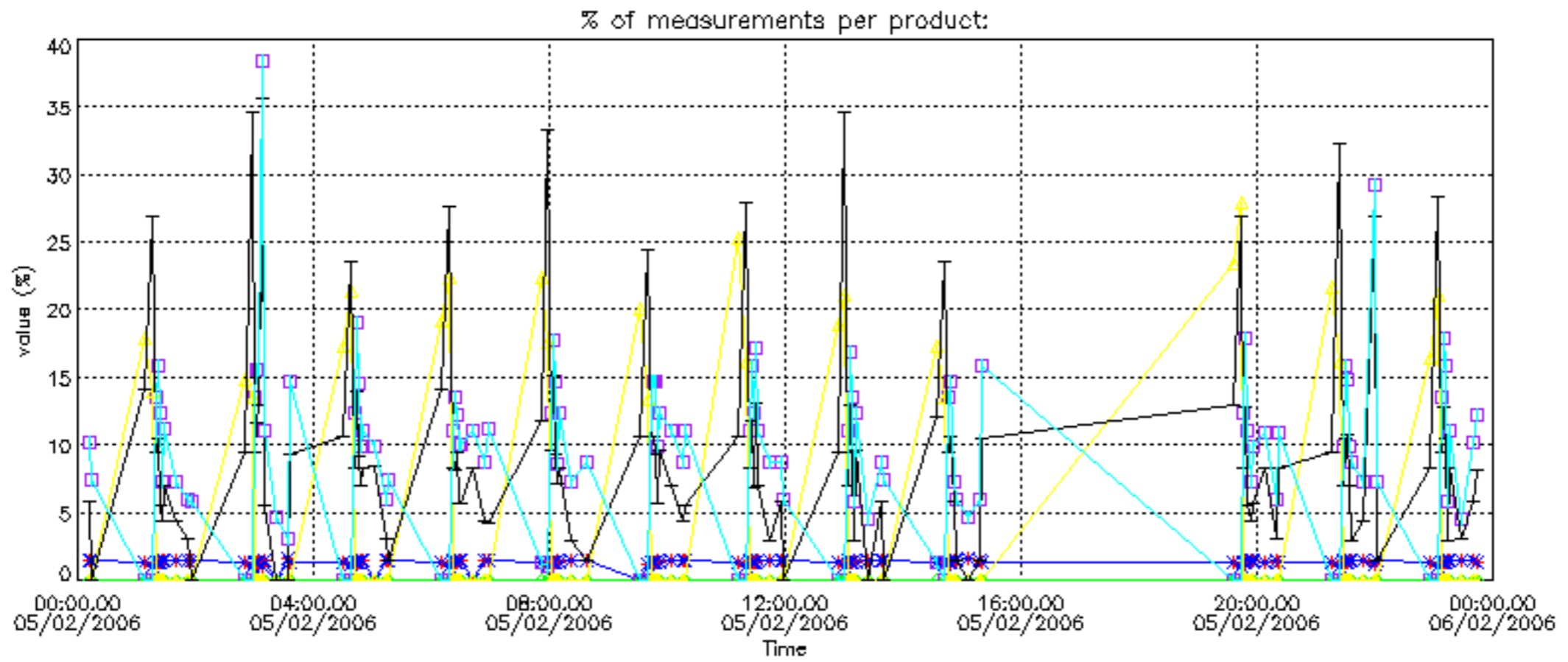
Percentage of flagged data per NO2 profile



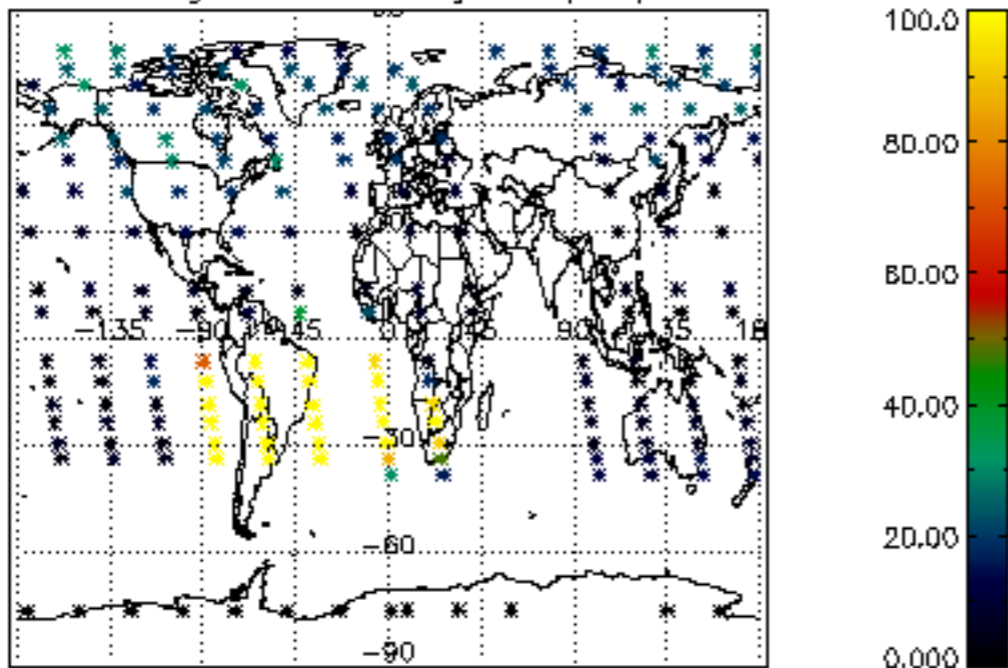
Percentage of flagged data per NO3 profile



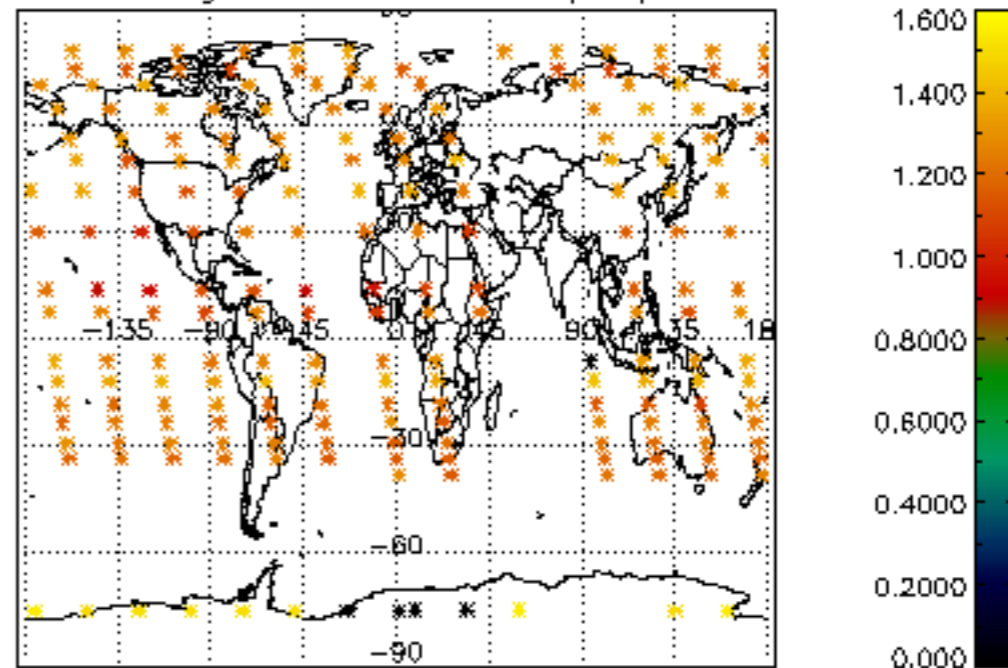




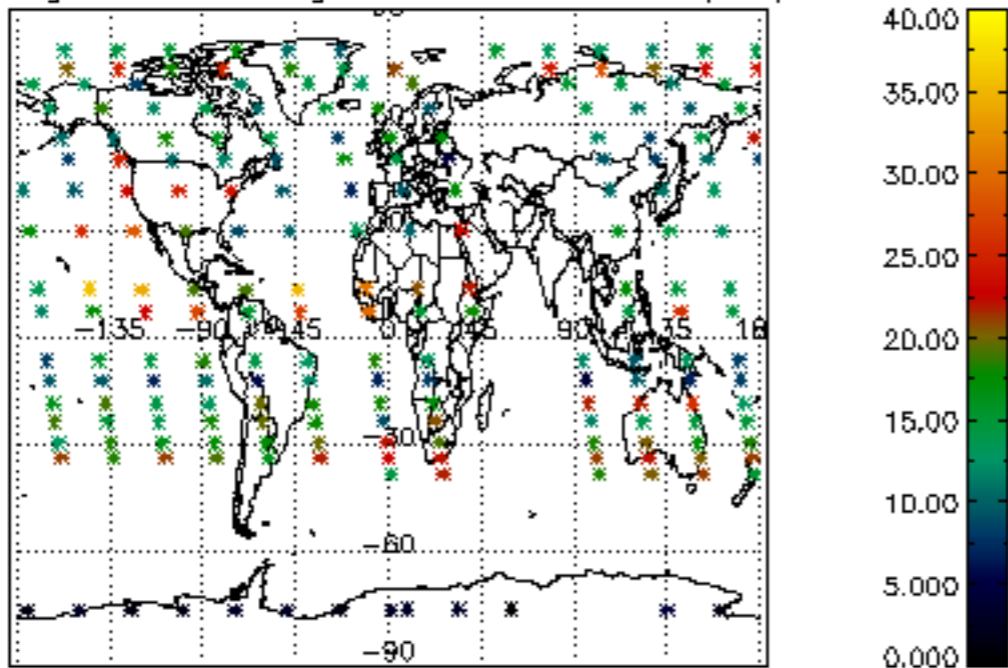
Percentage of cosmic ray hits per profile



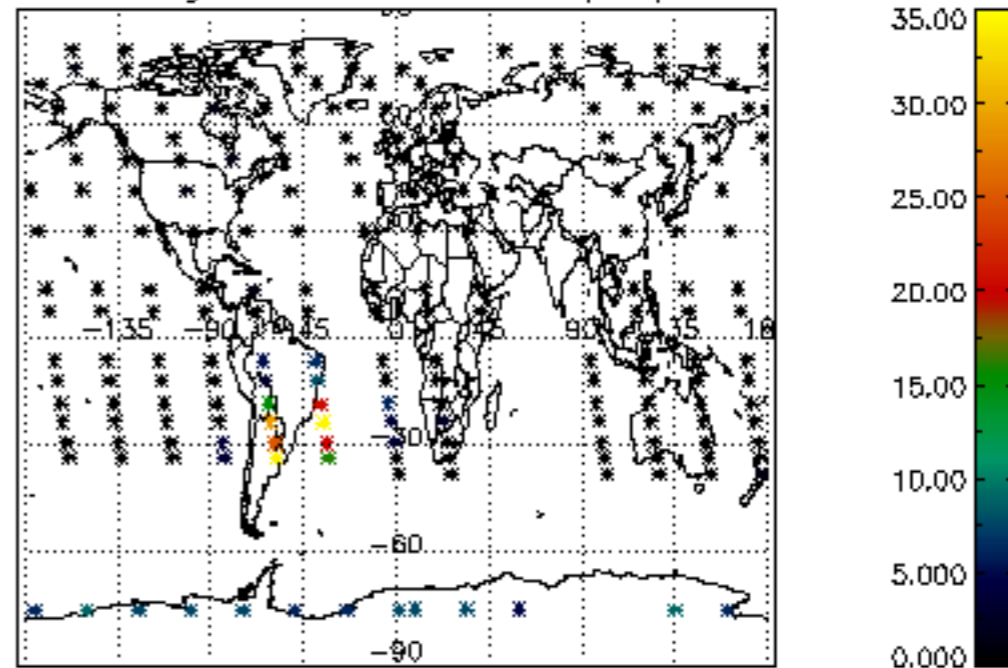
Percentage of datation errors per profile



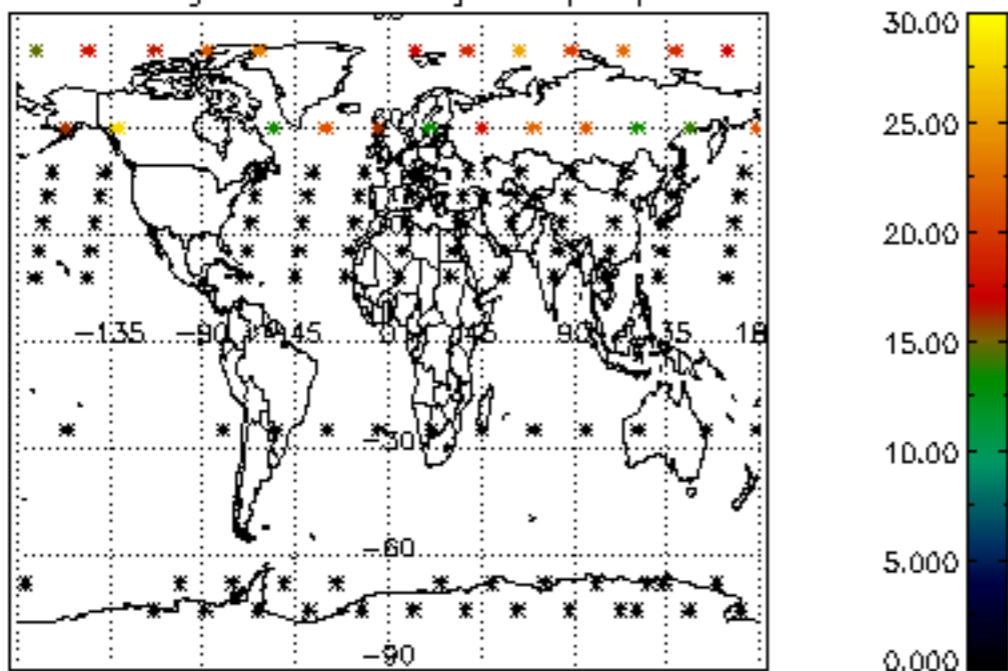
Percentage of star falling outside central band per profile



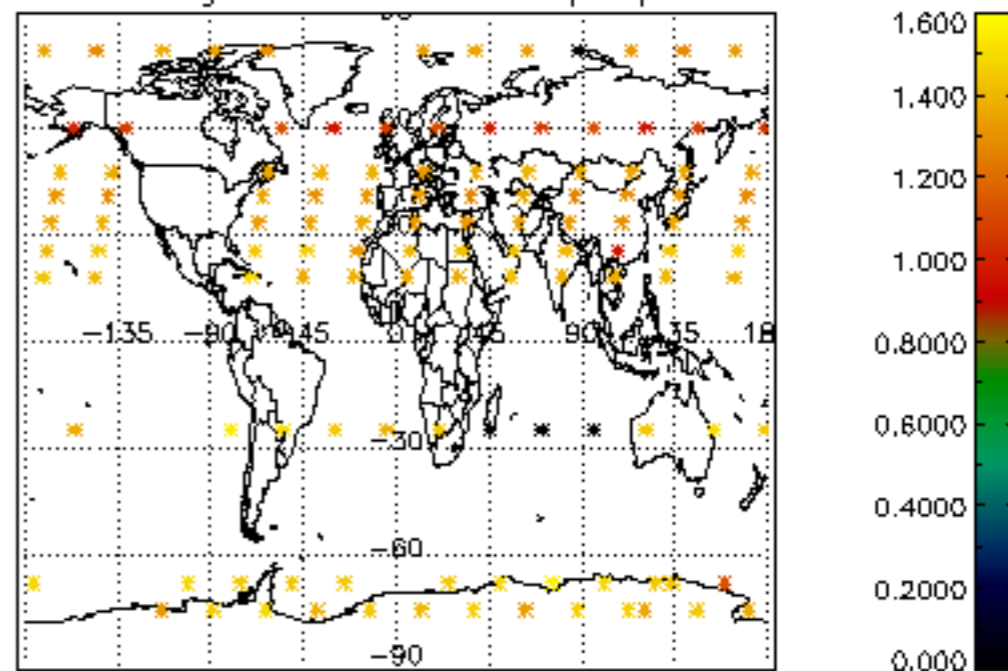
Percentage of saturation errors per profile



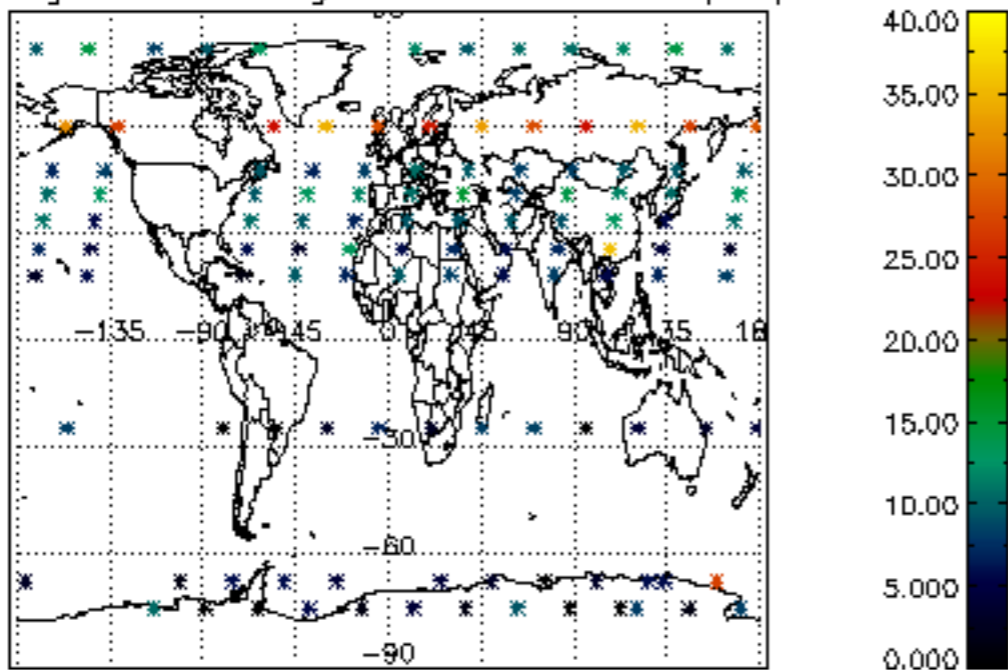
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

