

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 16:55:55
Data source version	GOMOS/6.01
Start time of products	21-03-2006 (21MAR2006 00:00:00)
Stop time of products	22-03-2006 (22MAR2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	277
Nb of prods with errors	0

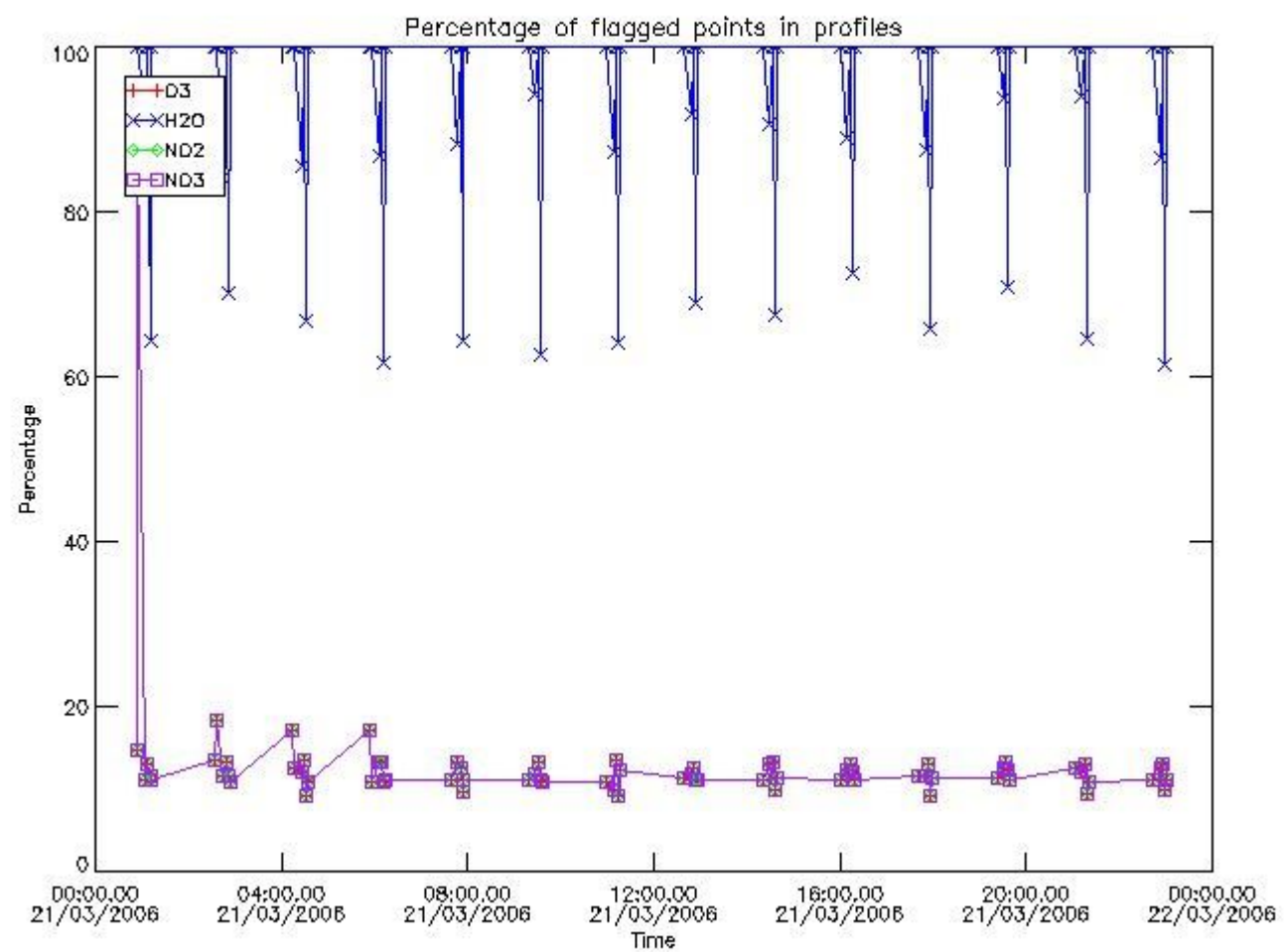
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060321_000449_000000382046_00102_21198_8406.N1	21-MAR-2006 00:04:49	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	21198	No
2	GOM_NL__2PRFIN20060321_000804_000000362046_00102_21198_8407.N1	21-MAR-2006 00:08:04	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	21198	No
3	GOM_NL__2PRFIN20060321_000935_000000382046_00102_21198_8408.N1	21-MAR-2006 00:09:35	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	21198	No
4	GOM_NL__2PRFIN20060321_001630_000000402046_00102_21198_8409.N1	21-MAR-2006 00:16:30	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	21198	No
5	GOM_NL__2PRFIN20060321_002502_000000372046_00102_21198_8410.N1	21-MAR-2006 00:25:02	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	21198	No
6	GOM_NL__2PRFIN20060321_003010_000000372046_00102_21198_8411.N1	21-MAR-2006 00:30:10	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	21198	No
7	GOM_NL__2PRFIN20060321_003145_000000402046_00102_21198_8412.N1	21-MAR-2006 00:31:45	Bright	39.500	66	37Gam Cyg	2.2080	5900.0	79	21198	No
8	GOM_NL__2PRFIN20060321_003333_000000392046_00102_21198_8413.N1	21-MAR-2006 00:33:33	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	21198	No
9	GOM_NL__2PRFIN20060321_004216_000000522046_00102_21198_8414.N1	21-MAR-2006 00:42:16	Twilight	52.000	11	53Alp Aql	0.76500	8000.0	104	21198	No
10	GOM_NL__2PRFIN20060321_005253_000000382046_00102_21198_8415.N1	21-MAR-2006 00:52:53	Dark	38.000	155	41Pi Sgr	2.9000	6600.0	76	21198	No
11	GOM_NL__2PRFIN20060321_005459_000000282046_00102_21198_8416.N1	21-MAR-2006 00:54:59	Dark	28.000	57	34Sig Sgr	2.0660	26000.	56	21198	No
12	GOM_NL__2PRFIN20060321_010412_000000462046_00103_21199_8397.N1	21-MAR-2006 01:04:12	Dark	45.500	141	Bet Ara	2.8400	4600.0	91	21199	No
13	GOM_NL__2PRFIN20060321_010745_000000392046_00103_21199_8398.N1	21-MAR-2006 01:07:45	Dark	39.000	134	Bet TrA	2.8100	6600.0	78	21199	No
14	GOM_NL__2PRFIN20060321_011028_000000442046_00103_21199_8399.N1	21-MAR-2006 01:10:28	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	21199	No
15	GOM_NL__2PRFIN20060321_011242_000000462046_00103_21199_8400.N1	21-MAR-2006 01:12:42	Dark	46.000	78	Alp Lup	2.3040	28000.	92	21199	No
16	GOM_NL__2PRFIN20060321_011442_000000442046_00103_21199_8401.N1	21-MAR-2006 01:14:42	Straylight	44.000	26	Gam Cru	1.6240	2900.0	88	21199	No
17	GOM_NL__2PRFIN20060321_011630_000000442046_00103_21199_8402.N1	21-MAR-2006 01:16:30	Straylight	43.500	64	Gam Cen	2.2000	10600.	87	21199	No
18	GOM_NL__2PRFIN20060321_012453_000000442046_00103_21199_8403.N1	21-MAR-2006 01:24:53	Straylight	44.000	171	2Eps Crv	3.0010	4250.0	88	21199	No
19	GOM_NL__2PRFIN20060321_012630_000000252046_00103_21199_8404.N1	21-MAR-2006 01:26:30	Twilight	25.000	100	4Gam Crv	2.5800	13100.	50	21199	No
20	GOM_NL__2PRFIN20060321_013759_000000522046_00103_21199_8405.N1	21-MAR-2006 01:37:59	Bright	52.000	51	41Gam1Leo	2.0100	4500.0	104	21199	No
21	GOM_NL__2PRFIN20060321_014525_000000402046_00103_21199_8406.N1	21-MAR-2006 01:45:25	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	21199	No
22	GOM_NL__2PRFIN20060321_014840_000000372046_00103_21199_8407.N1	21-MAR-2006 01:48:40	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	21199	No
23	GOM_NL__2PRFIN20060321_015010_000000362046_00103_21199_8408.N1	21-MAR-2006 01:50:10	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	21199	No
24	GOM_NL__2PRFIN20060321_015705_000000372046_00103_21199_8409.N1	21-MAR-2006 01:57:05	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	21199	No
25	GOM_NL__2PRFIN20060321_020538_000000372046_00103_21199_8410.N1	21-MAR-2006 02:05:38	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	21199	No
26	GOM_NL__2PRFIN20060321_021046_000000402046_00103_21199_8411.N1	21-MAR-2006 02:10:46	Bright	40.000	19	50Alp Cyg	1.2460	10500.	80	21199	No
27	GOM_NL__2PRFIN20060321_021221_000000372046_00103_21199_8412.N1	21-MAR-2006 02:12:21	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	21199	No
28	GOM_NL__2PRFIN20060321_021409_000000352046_00103_21199_8413.N1	21-MAR-2006 02:14:09	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	21199	No
29	GOM_NL__2PRFIN20060321_022252_000000512046_00103_21199_8414.N1	21-MAR-2006 02:22:52	Twilight	50.500	11	53Alp Aql	0.76500	8000.0	101	21199	No
30	GOM_NL__2PRFIN20060321_023330_000000382046_00103_21199_8415.N1	21-MAR-2006 02:33:30	Dark	38.000	155	41Pi Sgr	2.9000	6600.0	76	21199	No
31	GOM_NL__2PRFIN20060321_023536_000000282046_00103_21199_8416.N1	21-MAR-2006 02:35:36	Dark	28.000	57	34Sig Sgr	2.0660	26000.	56	21199	No
32	GOM_NL__2PRFIN20060321_024448_000000452046_00104_21200_8397.N1	21-MAR-2006 02:44:48	Dark	44.500	141	Bet Ara	2.8400	4600.0	89	21200	No
33	GOM_NL__2PRFIN20060321_024821_000000392046_00104_21200_8398.N1	21-MAR-2006 02:48:21	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	21200	No
34	GOM_NL__2PRFIN20060321_025105_000000442046_00104_21200_8399.N1	21-MAR-2006 02:51:05	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	21200	No
35	GOM_NL__2PRFIN20060321_025319_000000472046_00104_21200_8400.N1	21-MAR-2006 02:53:19	Dark	47.000	78	Alp Lup	2.3040	28000.	94	21200	No
36	GOM_NL__2PRFIN20060321_025518_000000452046_00104_21200_8401.N1	21-MAR-2006 02:55:18	Straylight	44.500	26	Gam Cru	1.6240	2900.0	89	21200	No
37	GOM_NL__2PRFIN20060321_025707_000000382046_00104_21200_8402.N1	21-MAR-2006 02:57:07	Straylight	38.000	64	Gam Cen	2.2000	10600.	76	21200	No
38	GOM_NL__2PRFIN20060321_030529_000000482046_00104_21200_8403.N1	21-MAR-2006 03:05:29	Straylight	48.000	171	2Eps Crv	3.0010	4250.0	96	21200	No
39	GOM_NL__2PRFIN20060321_030706_000000322046_00104_21200_8404.N1	21-MAR-2006 03:07:06	Twilight	32.000	100	4Gam Crv	2.5800	13100.	64	21200	No
40	GOM_NL__2PRFIN20060321_031835_000000382046_00104_21200_8405.N1	21-MAR-2006 03:18:35	Bright	37.500	51	41Gam1Leo	2.0100	4500.0	75	21200	No
41	GOM_NL__2PRFIN20060321_032600_000000392046_00104_21200_8406.N1	21-MAR-2006 03:26:00	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	21200	No
42	GOM_NL__2PRFIN20060321_032916_000000362046_00104_21200_8407.N1	21-MAR-2006 03:29:16	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	21200	No

3. Quality information per product

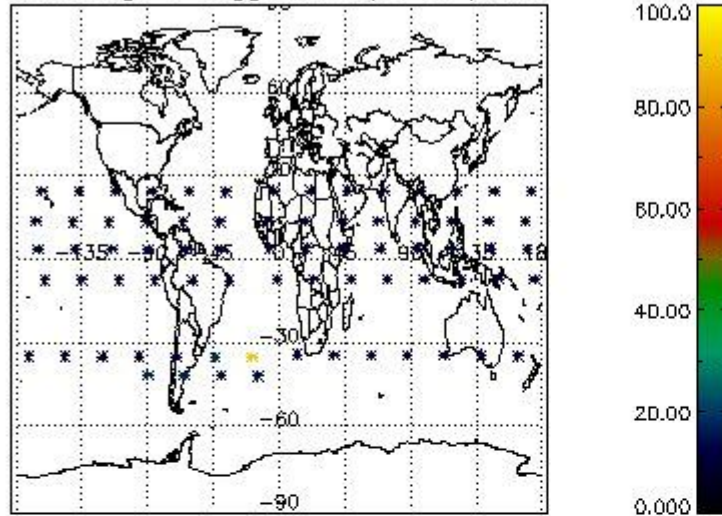
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

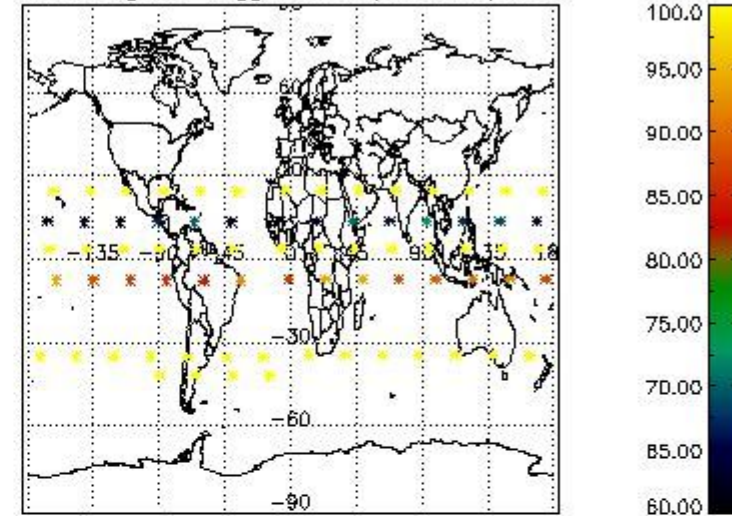


3.2 Plot quality information per product (world map)

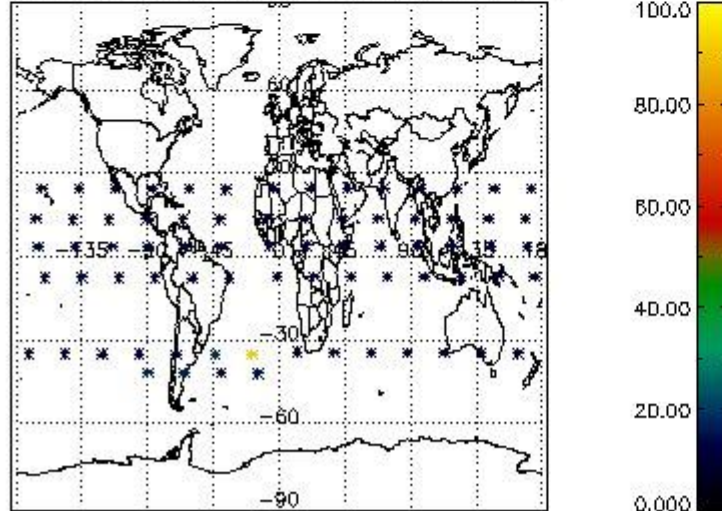
Percentage of flagged data per O3 profile



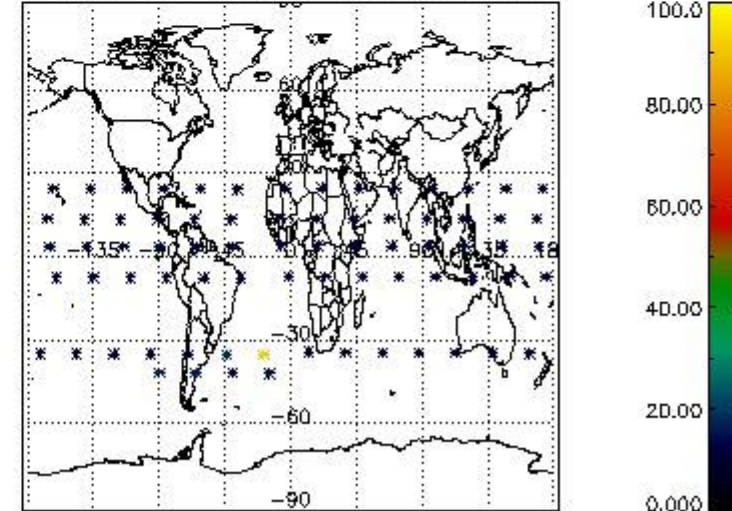
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

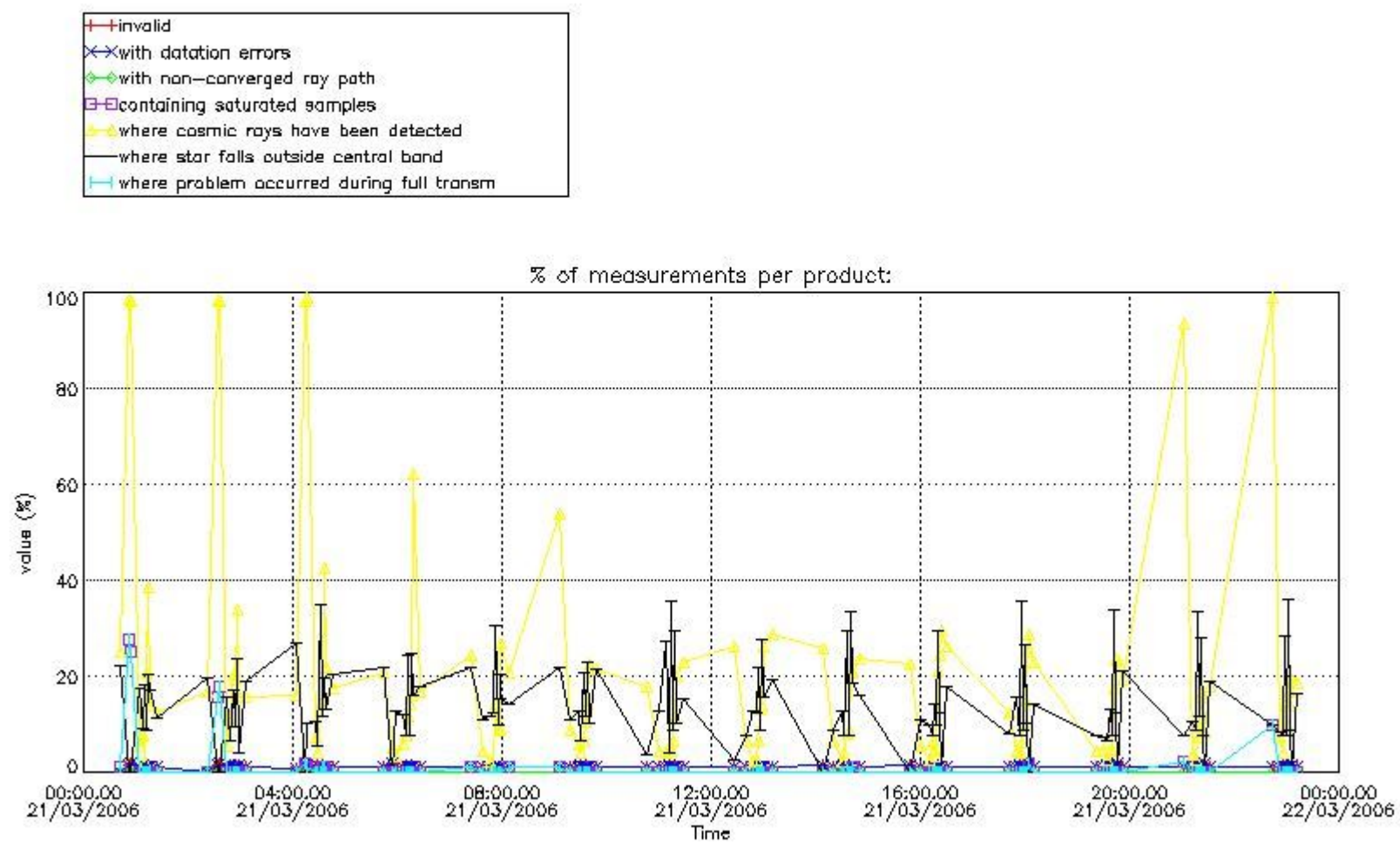


4. Level 1 quality information per product

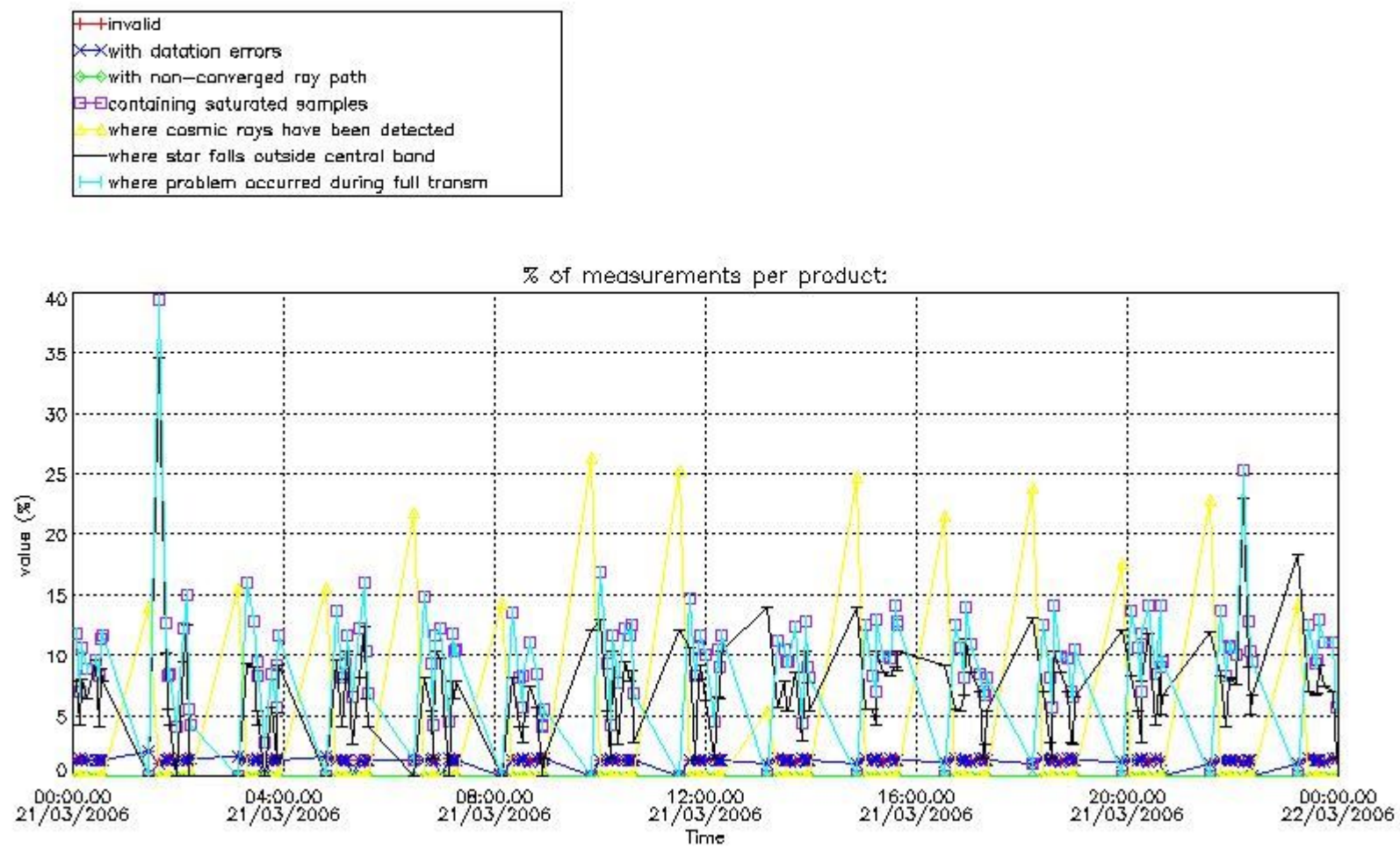
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

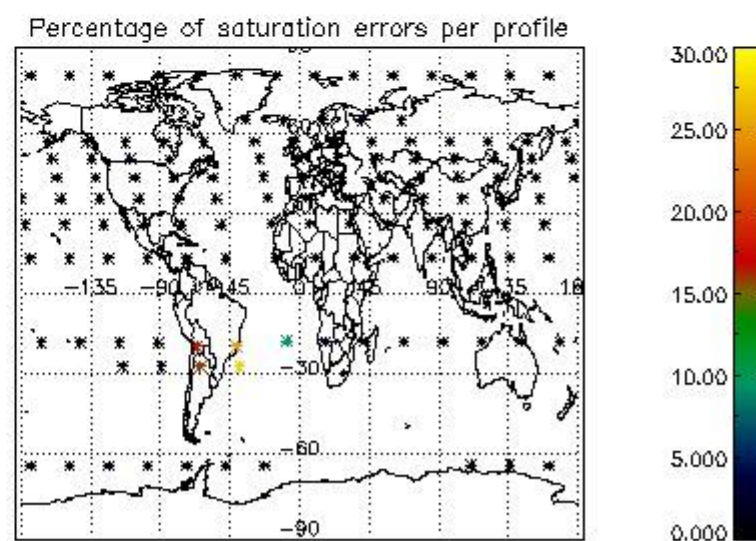
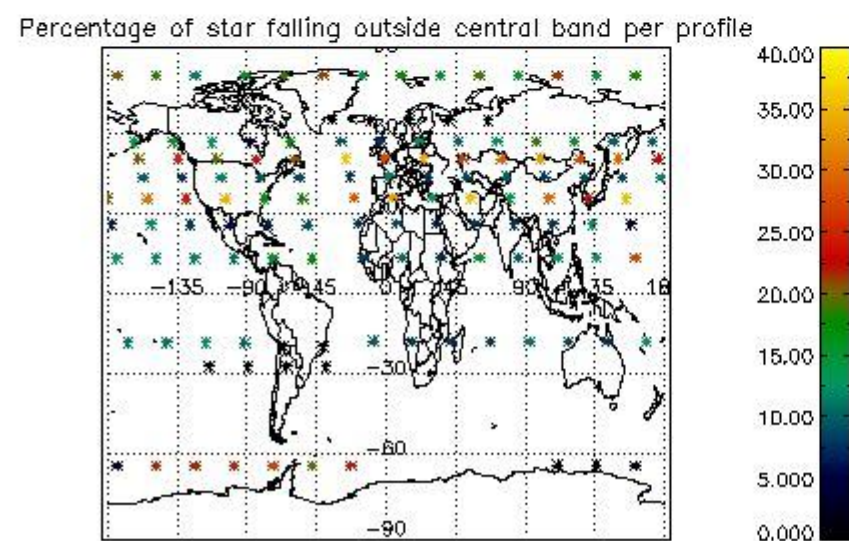
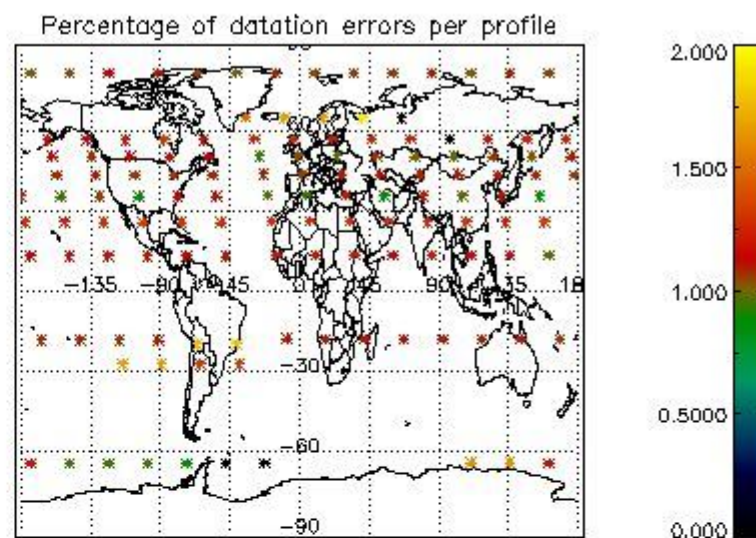
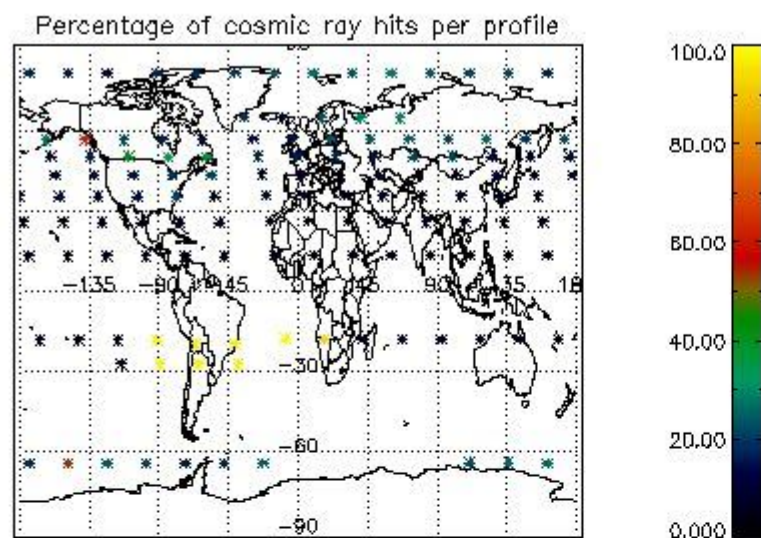


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

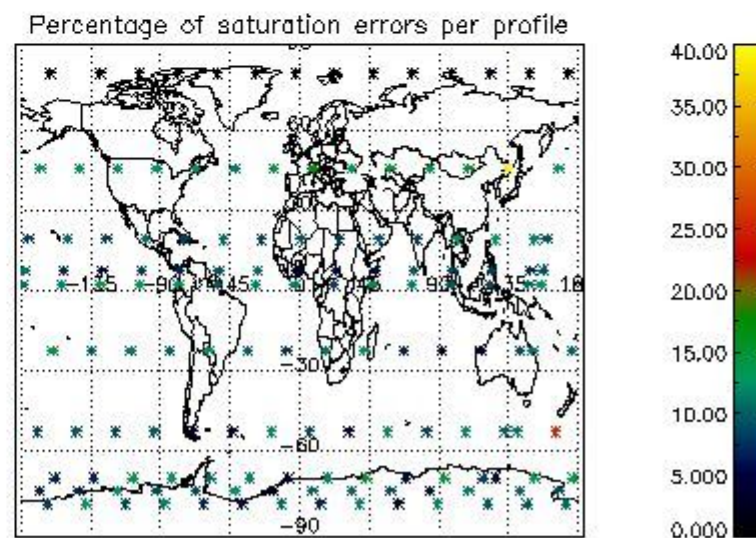
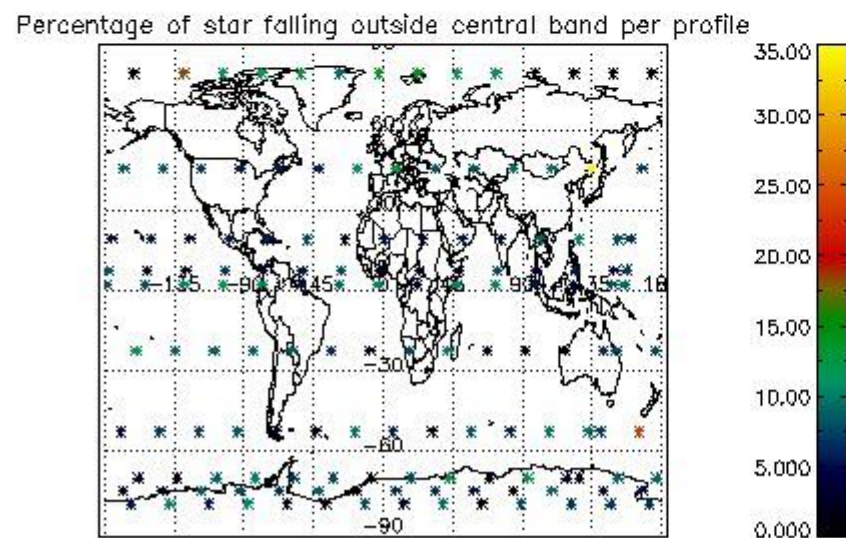
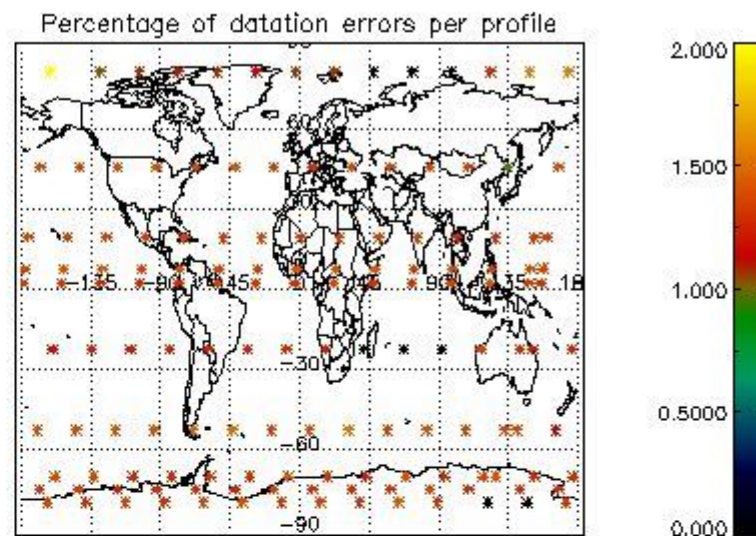
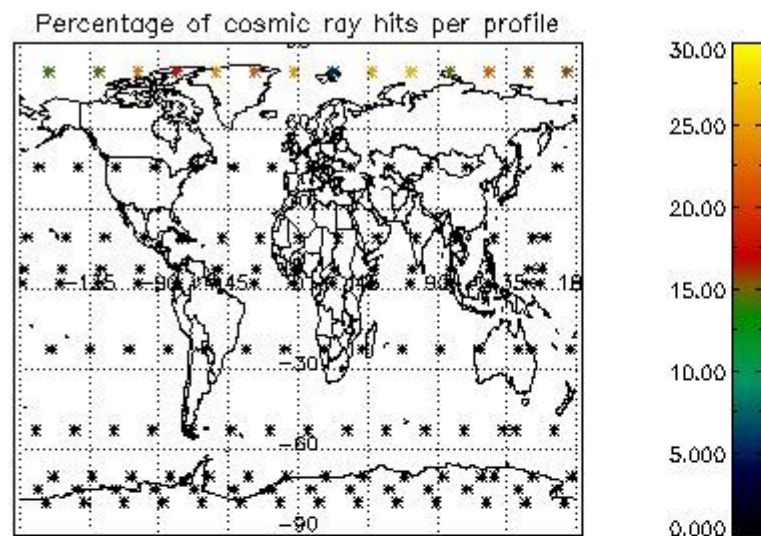


4.2 Plot quality information per product coming from level 1b processing (world map)

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

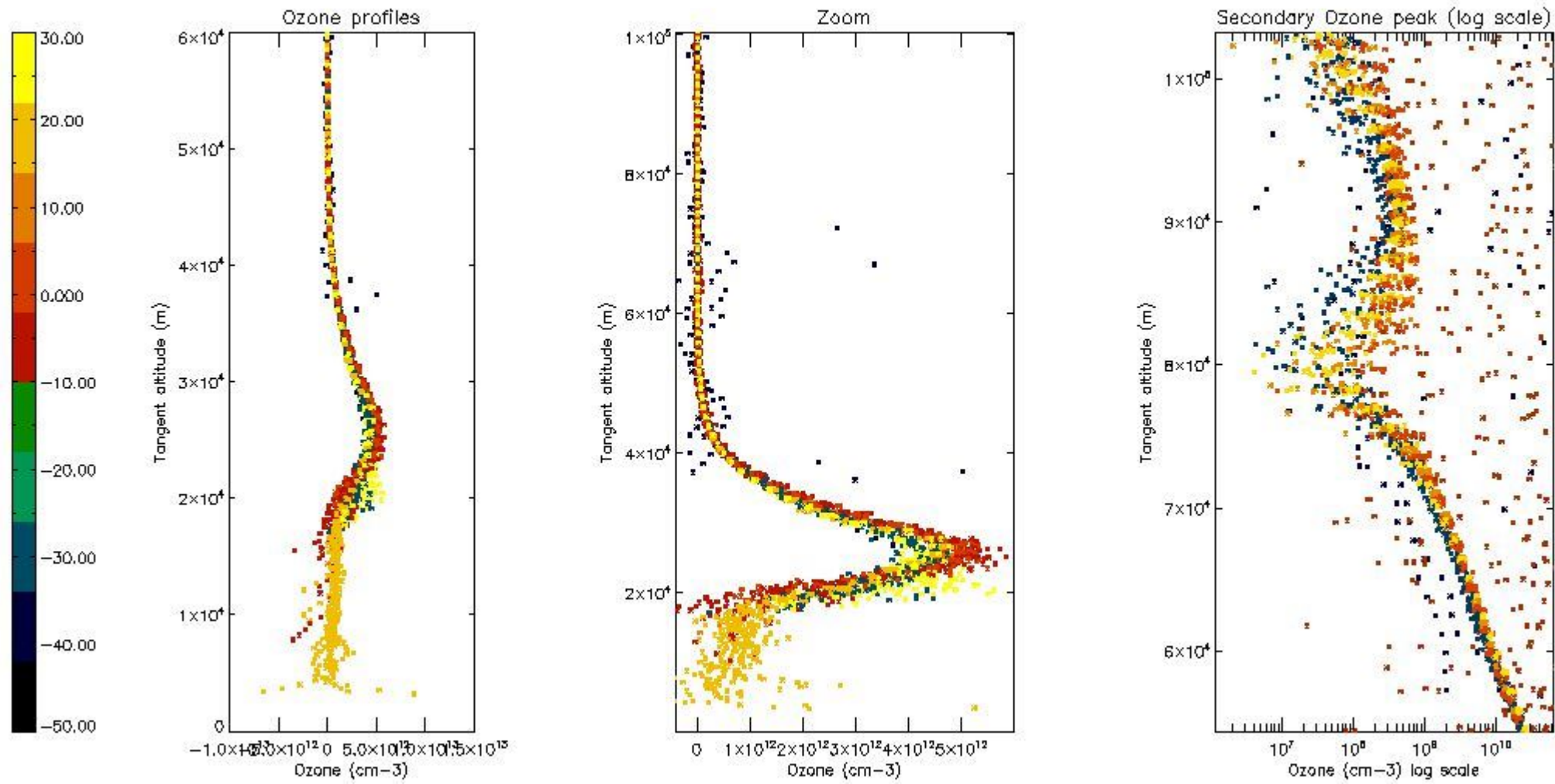
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	15

STD < 10	12
STD < 5	7

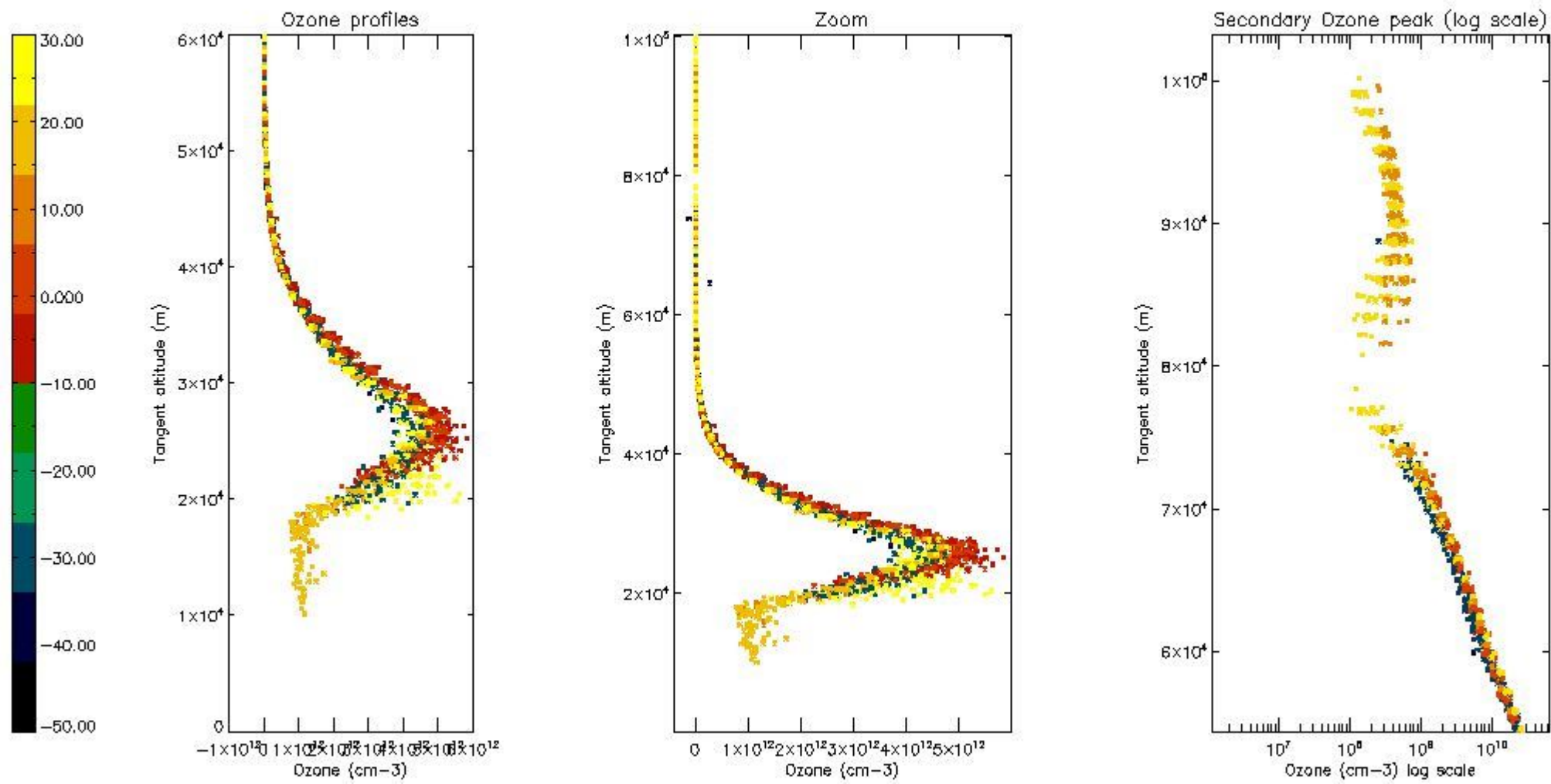
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



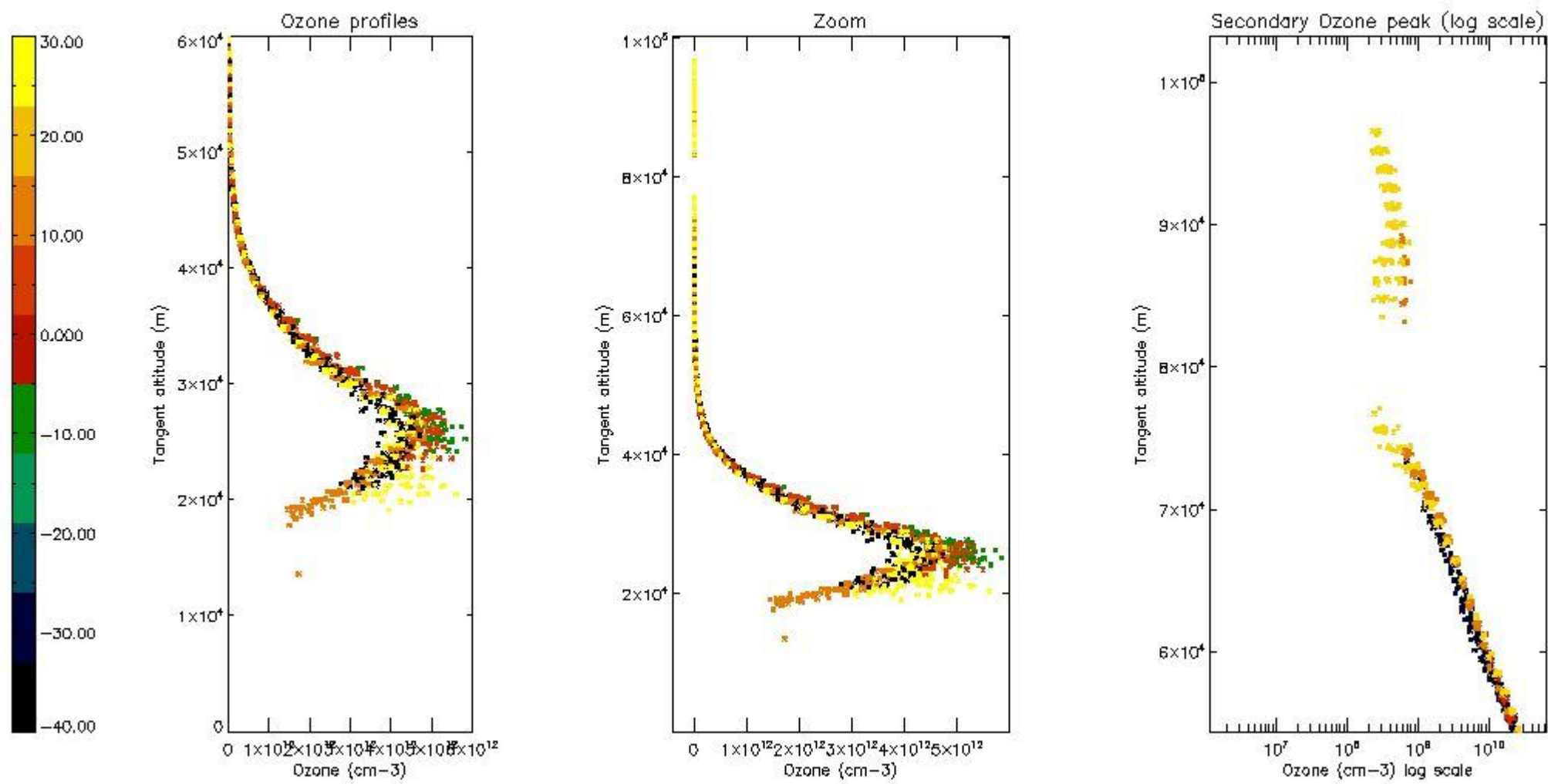
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



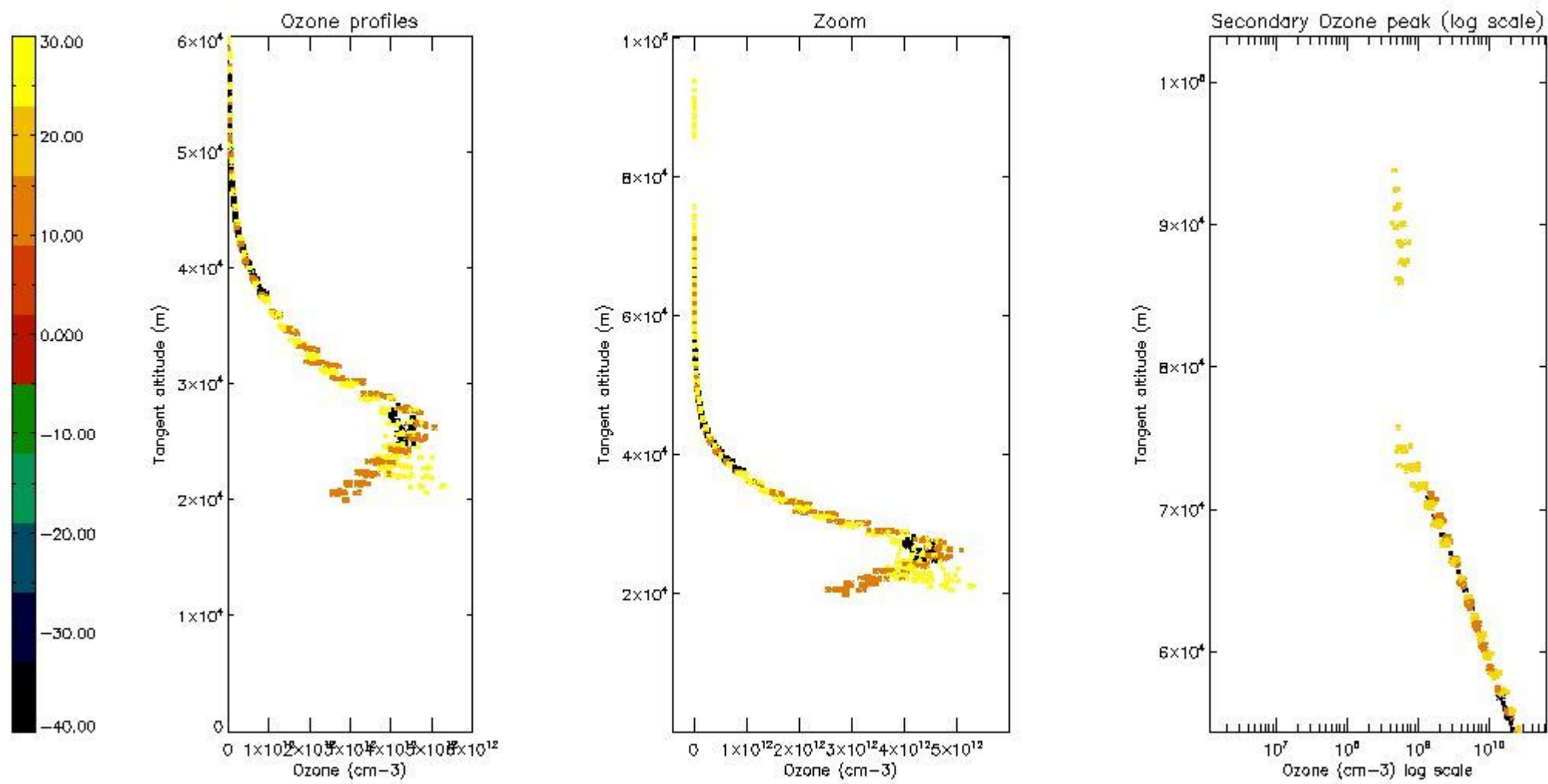
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



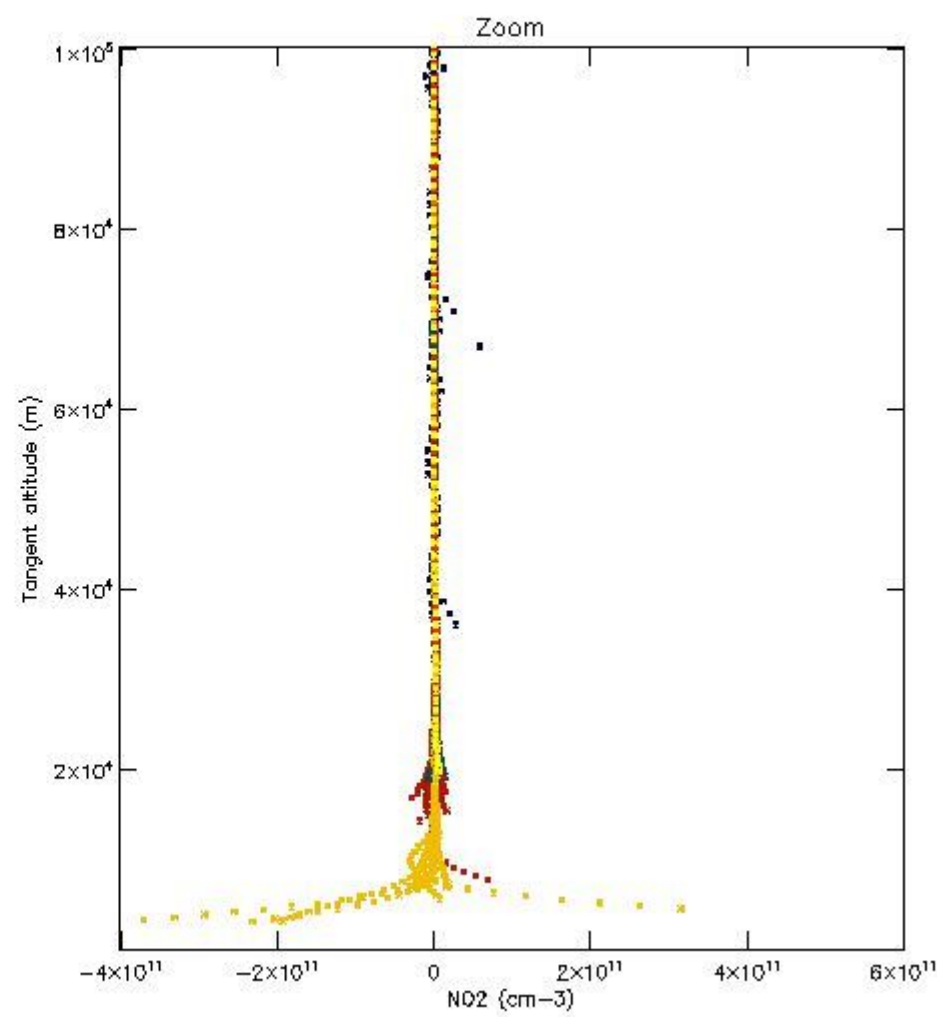
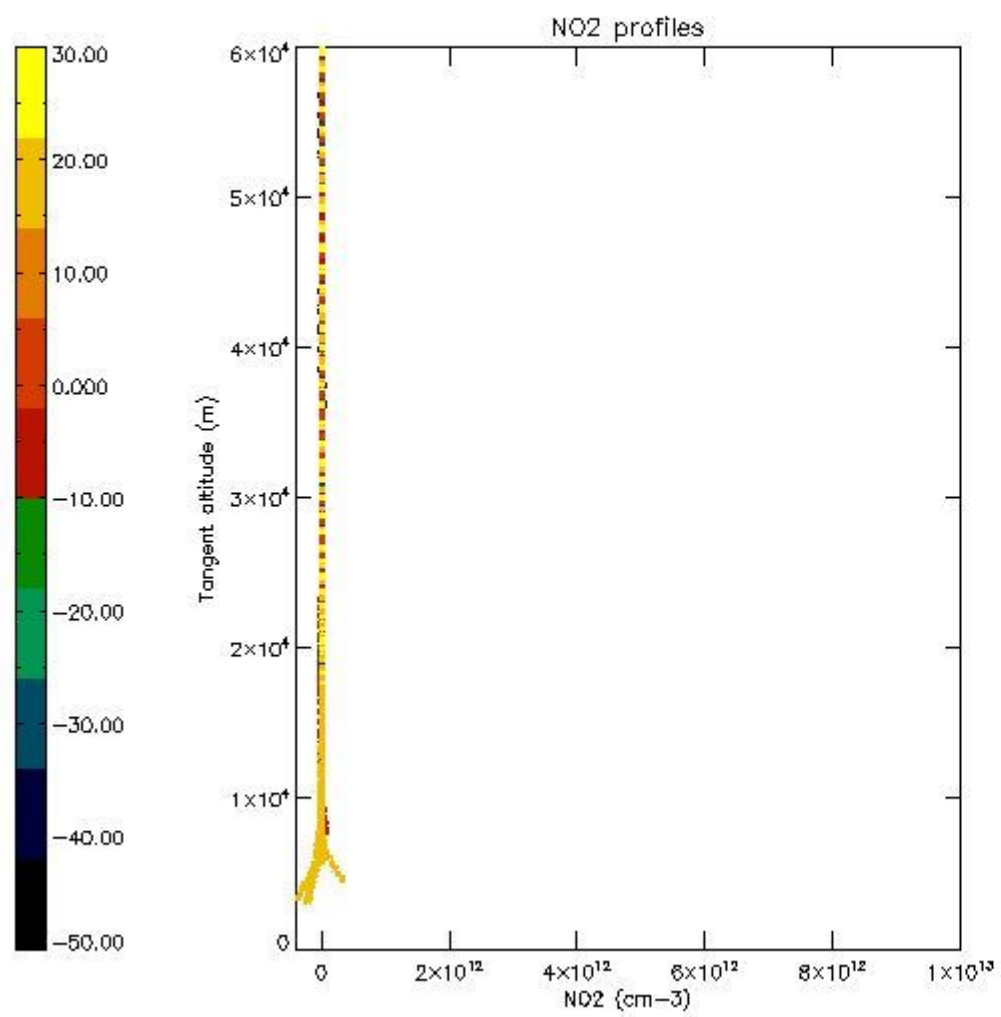
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



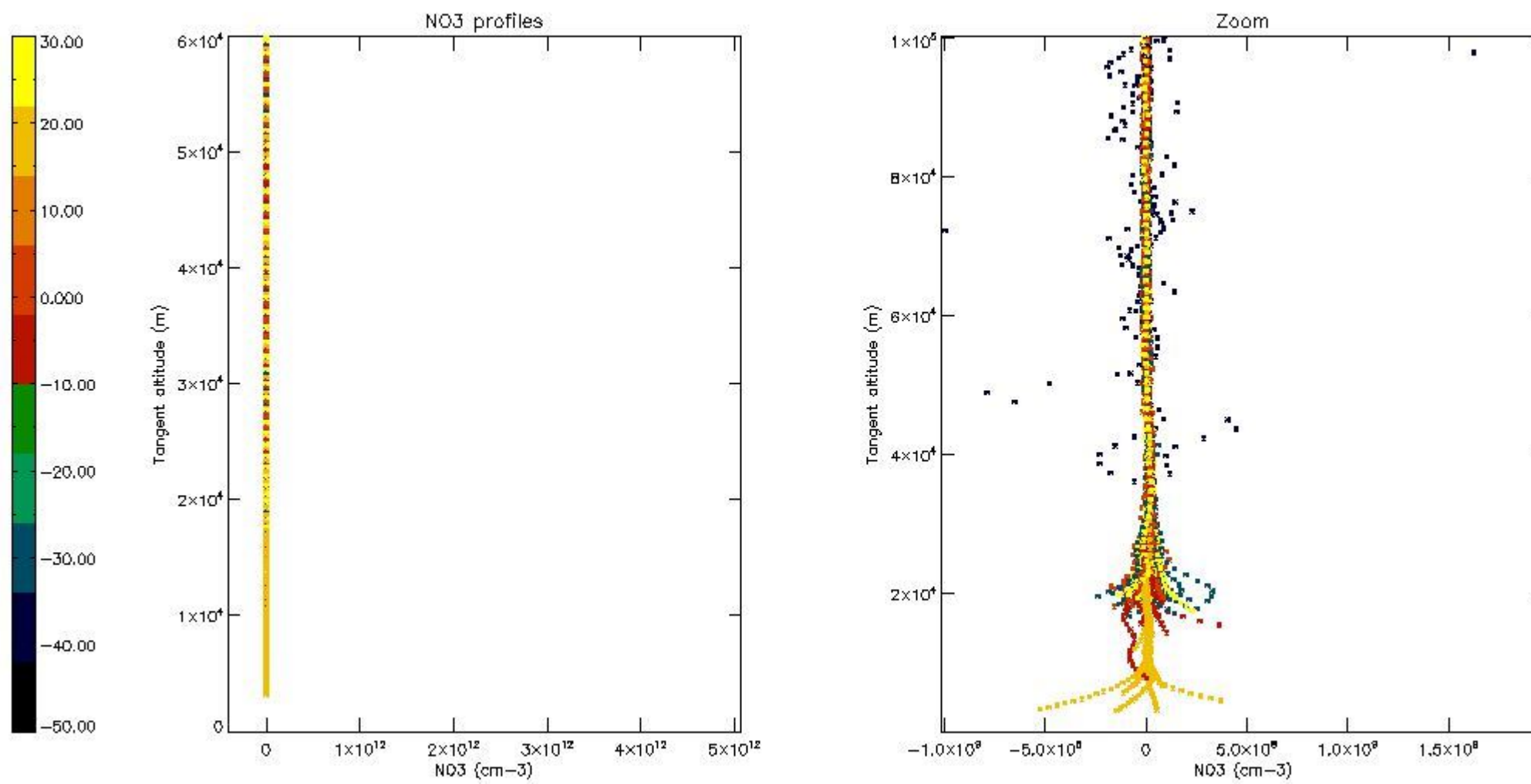
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



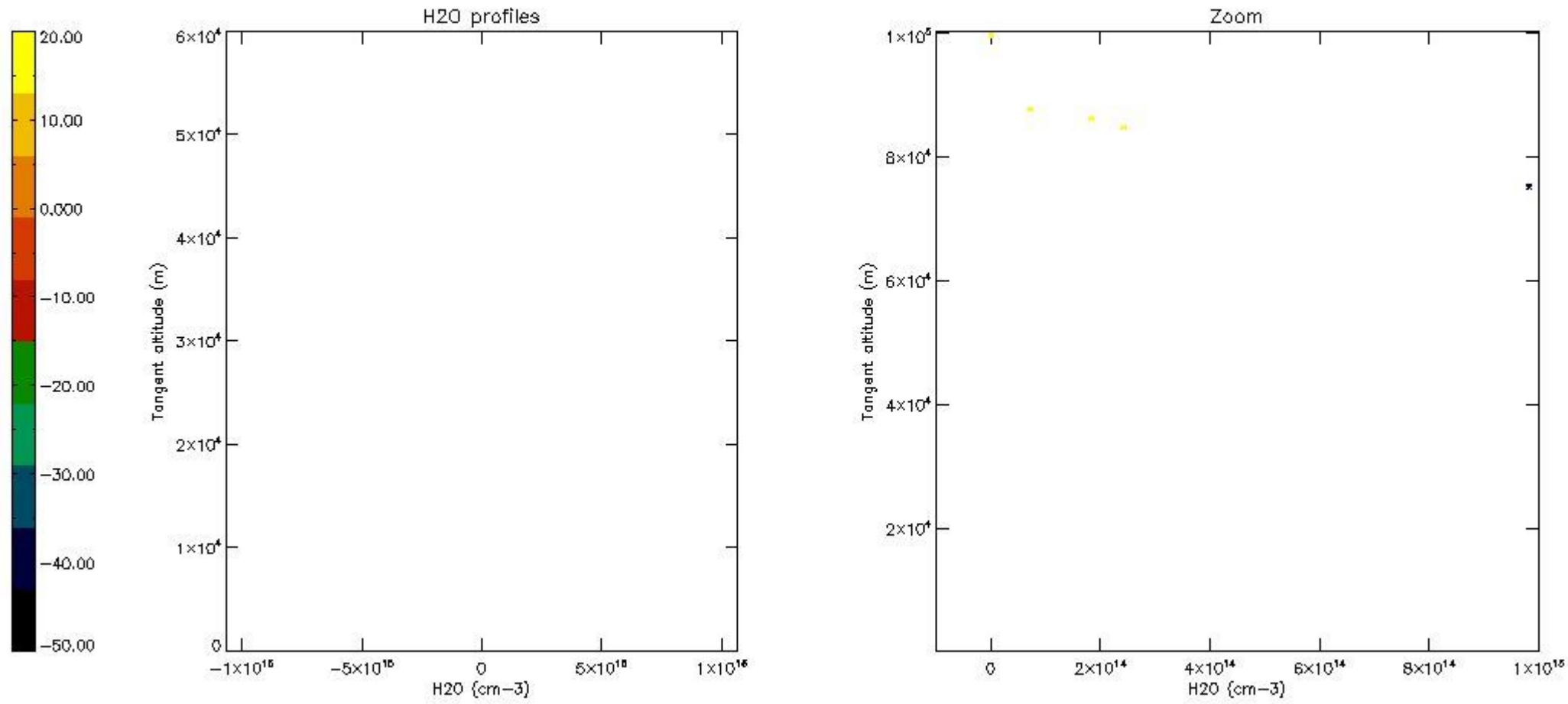
5.7 Plot NO3 profiles for all STD (dark without errors)

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	21-MAR-2006 00:04:49
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-MAR-2006 00:04:49
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-MAR-2006 00:04:49

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

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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](#)

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

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

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

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

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

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

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

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

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

Item	Value
Time of report generation	22APR2013 16:55:55
Data source version	GOMOS/6.01
Start time of products	21-03-2006 (21MAR2006 00:00:00)
Stop time of products	22-03-2006 (22MAR2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	277
Nb of prods with errors	0

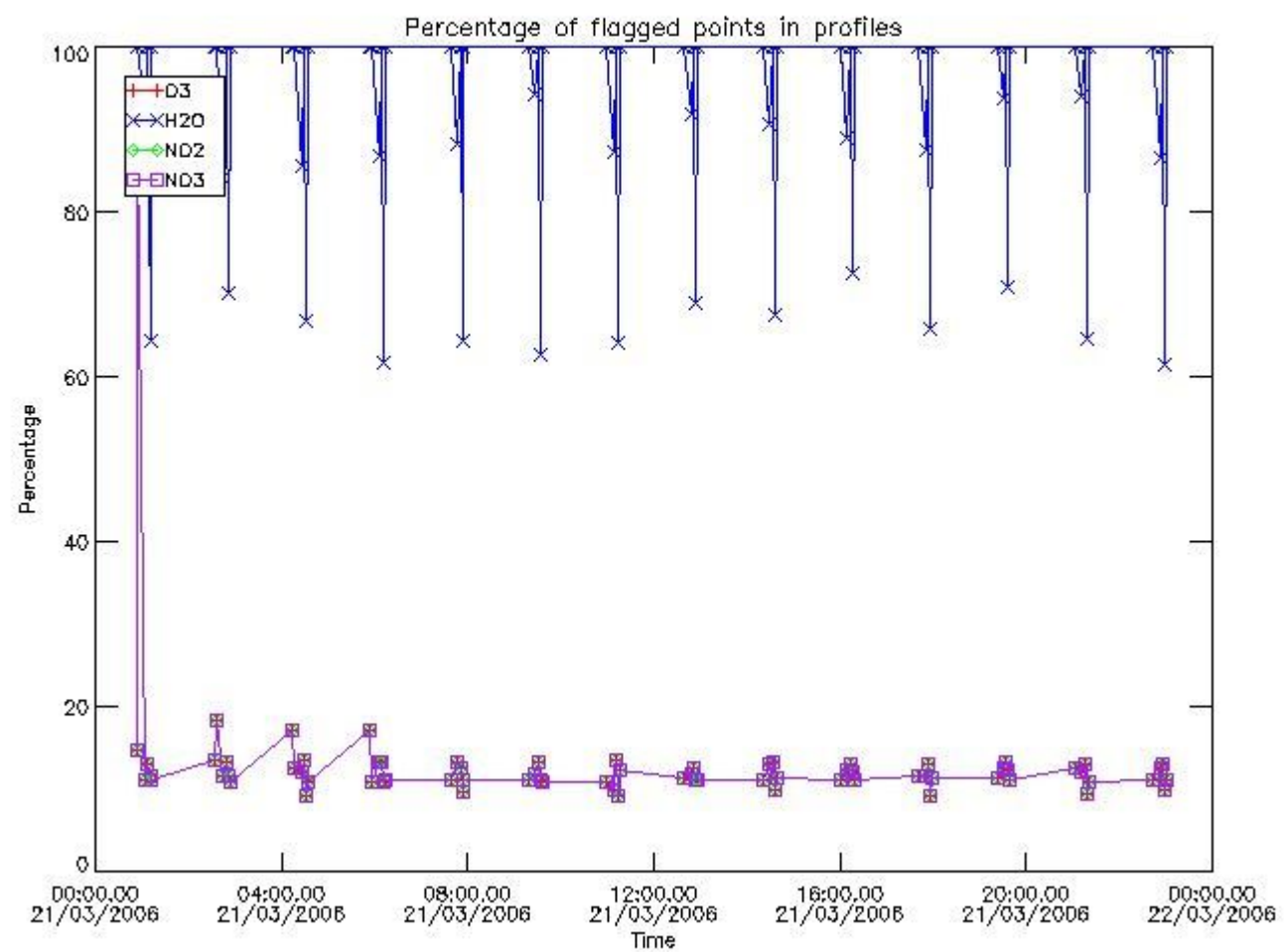
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060321_000449_000000382046_00102_21198_8406.N1	21-MAR-2006 00:04:49	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	21198	No
2	GOM_NL__2PRFIN20060321_000804_000000362046_00102_21198_8407.N1	21-MAR-2006 00:08:04	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	21198	No
3	GOM_NL__2PRFIN20060321_000935_000000382046_00102_21198_8408.N1	21-MAR-2006 00:09:35	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	21198	No
4	GOM_NL__2PRFIN20060321_001630_000000402046_00102_21198_8409.N1	21-MAR-2006 00:16:30	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	21198	No
5	GOM_NL__2PRFIN20060321_002502_000000372046_00102_21198_8410.N1	21-MAR-2006 00:25:02	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	21198	No
6	GOM_NL__2PRFIN20060321_003010_000000372046_00102_21198_8411.N1	21-MAR-2006 00:30:10	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	21198	No
7	GOM_NL__2PRFIN20060321_003145_000000402046_00102_21198_8412.N1	21-MAR-2006 00:31:45	Bright	39.500	66	37Gam Cyg	2.2080	5900.0	79	21198	No
8	GOM_NL__2PRFIN20060321_003333_000000392046_00102_21198_8413.N1	21-MAR-2006 00:33:33	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	21198	No
9	GOM_NL__2PRFIN20060321_004216_000000522046_00102_21198_8414.N1	21-MAR-2006 00:42:16	Twilight	52.000	11	53Alp Aql	0.76500	8000.0	104	21198	No
10	GOM_NL__2PRFIN20060321_005253_000000382046_00102_21198_8415.N1	21-MAR-2006 00:52:53	Dark	38.000	155	41Pi Sgr	2.9000	6600.0	76	21198	No
11	GOM_NL__2PRFIN20060321_005459_000000282046_00102_21198_8416.N1	21-MAR-2006 00:54:59	Dark	28.000	57	34Sig Sgr	2.0660	26000.	56	21198	No
12	GOM_NL__2PRFIN20060321_010412_000000462046_00103_21199_8397.N1	21-MAR-2006 01:04:12	Dark	45.500	141	Bet Ara	2.8400	4600.0	91	21199	No
13	GOM_NL__2PRFIN20060321_010745_000000392046_00103_21199_8398.N1	21-MAR-2006 01:07:45	Dark	39.000	134	Bet TrA	2.8100	6600.0	78	21199	No
14	GOM_NL__2PRFIN20060321_011028_000000442046_00103_21199_8399.N1	21-MAR-2006 01:10:28	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	21199	No
15	GOM_NL__2PRFIN20060321_011242_000000462046_00103_21199_8400.N1	21-MAR-2006 01:12:42	Dark	46.000	78	Alp Lup	2.3040	28000.	92	21199	No
16	GOM_NL__2PRFIN20060321_011442_000000442046_00103_21199_8401.N1	21-MAR-2006 01:14:42	Straylight	44.000	26	Gam Cru	1.6240	2900.0	88	21199	No
17	GOM_NL__2PRFIN20060321_011630_000000442046_00103_21199_8402.N1	21-MAR-2006 01:16:30	Straylight	43.500	64	Gam Cen	2.2000	10600.	87	21199	No
18	GOM_NL__2PRFIN20060321_012453_000000442046_00103_21199_8403.N1	21-MAR-2006 01:24:53	Straylight	44.000	171	2Eps Crv	3.0010	4250.0	88	21199	No
19	GOM_NL__2PRFIN20060321_012630_000000252046_00103_21199_8404.N1	21-MAR-2006 01:26:30	Twilight	25.000	100	4Gam Crv	2.5800	13100.	50	21199	No
20	GOM_NL__2PRFIN20060321_013759_000000522046_00103_21199_8405.N1	21-MAR-2006 01:37:59	Bright	52.000	51	41Gam1Leo	2.0100	4500.0	104	21199	No
21	GOM_NL__2PRFIN20060321_014525_000000402046_00103_21199_8406.N1	21-MAR-2006 01:45:25	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	21199	No
22	GOM_NL__2PRFIN20060321_014840_000000372046_00103_21199_8407.N1	21-MAR-2006 01:48:40	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	21199	No
23	GOM_NL__2PRFIN20060321_015010_000000362046_00103_21199_8408.N1	21-MAR-2006 01:50:10	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	21199	No
24	GOM_NL__2PRFIN20060321_015705_000000372046_00103_21199_8409.N1	21-MAR-2006 01:57:05	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	21199	No
25	GOM_NL__2PRFIN20060321_020538_000000372046_00103_21199_8410.N1	21-MAR-2006 02:05:38	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	21199	No
26	GOM_NL__2PRFIN20060321_021046_000000402046_00103_21199_8411.N1	21-MAR-2006 02:10:46	Bright	40.000	19	50Alp Cyg	1.2460	10500.	80	21199	No
27	GOM_NL__2PRFIN20060321_021221_000000372046_00103_21199_8412.N1	21-MAR-2006 02:12:21	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	21199	No
28	GOM_NL__2PRFIN20060321_021409_000000352046_00103_21199_8413.N1	21-MAR-2006 02:14:09	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	21199	No
29	GOM_NL__2PRFIN20060321_022252_000000512046_00103_21199_8414.N1	21-MAR-2006 02:22:52	Twilight	50.500	11	53Alp Aql	0.76500	8000.0	101	21199	No
30	GOM_NL__2PRFIN20060321_023330_000000382046_00103_21199_8415.N1	21-MAR-2006 02:33:30	Dark	38.000	155	41Pi Sgr	2.9000	6600.0	76	21199	No
31	GOM_NL__2PRFIN20060321_023536_000000282046_00103_21199_8416.N1	21-MAR-2006 02:35:36	Dark	28.000	57	34Sig Sgr	2.0660	26000.	56	21199	No
32	GOM_NL__2PRFIN20060321_024448_000000452046_00104_21200_8397.N1	21-MAR-2006 02:44:48	Dark	44.500	141	Bet Ara	2.8400	4600.0	89	21200	No
33	GOM_NL__2PRFIN20060321_024821_000000392046_00104_21200_8398.N1	21-MAR-2006 02:48:21	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	21200	No
34	GOM_NL__2PRFIN20060321_025105_000000442046_00104_21200_8399.N1	21-MAR-2006 02:51:05	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	21200	No
35	GOM_NL__2PRFIN20060321_025319_000000472046_00104_21200_8400.N1	21-MAR-2006 02:53:19	Dark	47.000	78	Alp Lup	2.3040	28000.	94	21200	No
36	GOM_NL__2PRFIN20060321_025518_000000452046_00104_21200_8401.N1	21-MAR-2006 02:55:18	Straylight	44.500	26	Gam Cru	1.6240	2900.0	89	21200	No
37	GOM_NL__2PRFIN20060321_025707_000000382046_00104_21200_8402.N1	21-MAR-2006 02:57:07	Straylight	38.000	64	Gam Cen	2.2000	10600.	76	21200	No
38	GOM_NL__2PRFIN20060321_030529_000000482046_00104_21200_8403.N1	21-MAR-2006 03:05:29	Straylight	48.000	171	2Eps Crv	3.0010	4250.0	96	21200	No
39	GOM_NL__2PRFIN20060321_030706_000000322046_00104_21200_8404.N1	21-MAR-2006 03:07:06	Twilight	32.000	100	4Gam Crv	2.5800	13100.	64	21200	No
40	GOM_NL__2PRFIN20060321_031835_000000382046_00104_21200_8405.N1	21-MAR-2006 03:18:35	Bright	37.500	51	41Gam1Leo	2.0100	4500.0	75	21200	No
41	GOM_NL__2PRFIN20060321_032600_000000392046_00104_21200_8406.N1	21-MAR-2006 03:26:00	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	21200	No
42	GOM_NL__2PRFIN20060321_032916_000000362046_00104_21200_8407.N1	21-MAR-2006 03:29:16	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	21200	No

3. Quality information per product

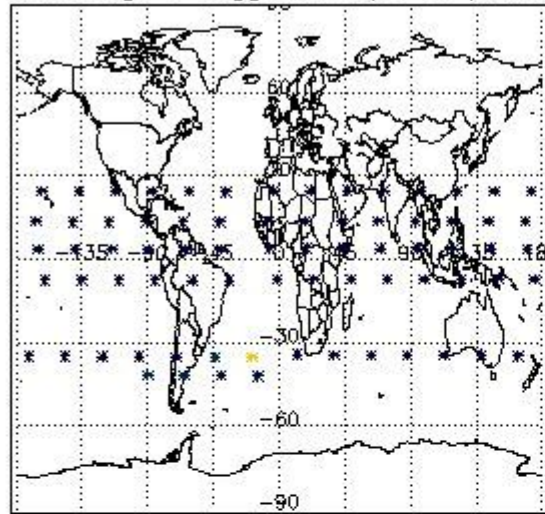
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

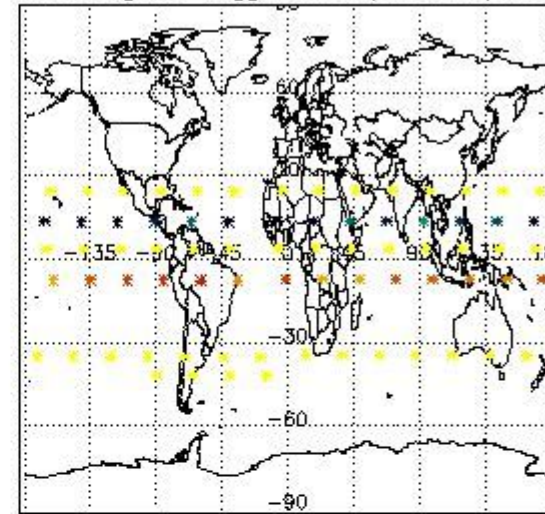


3.2 Plot quality information per product (world map)

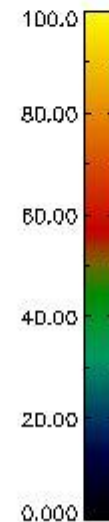
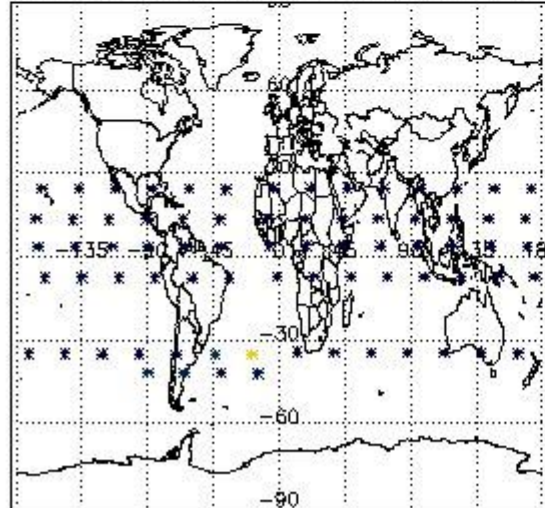
Percentage of flagged data per O3 profile



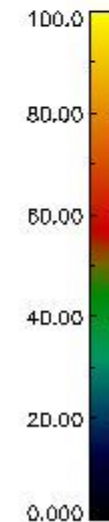
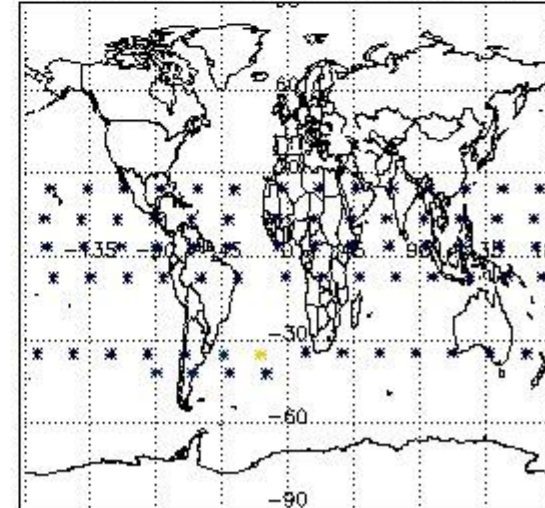
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

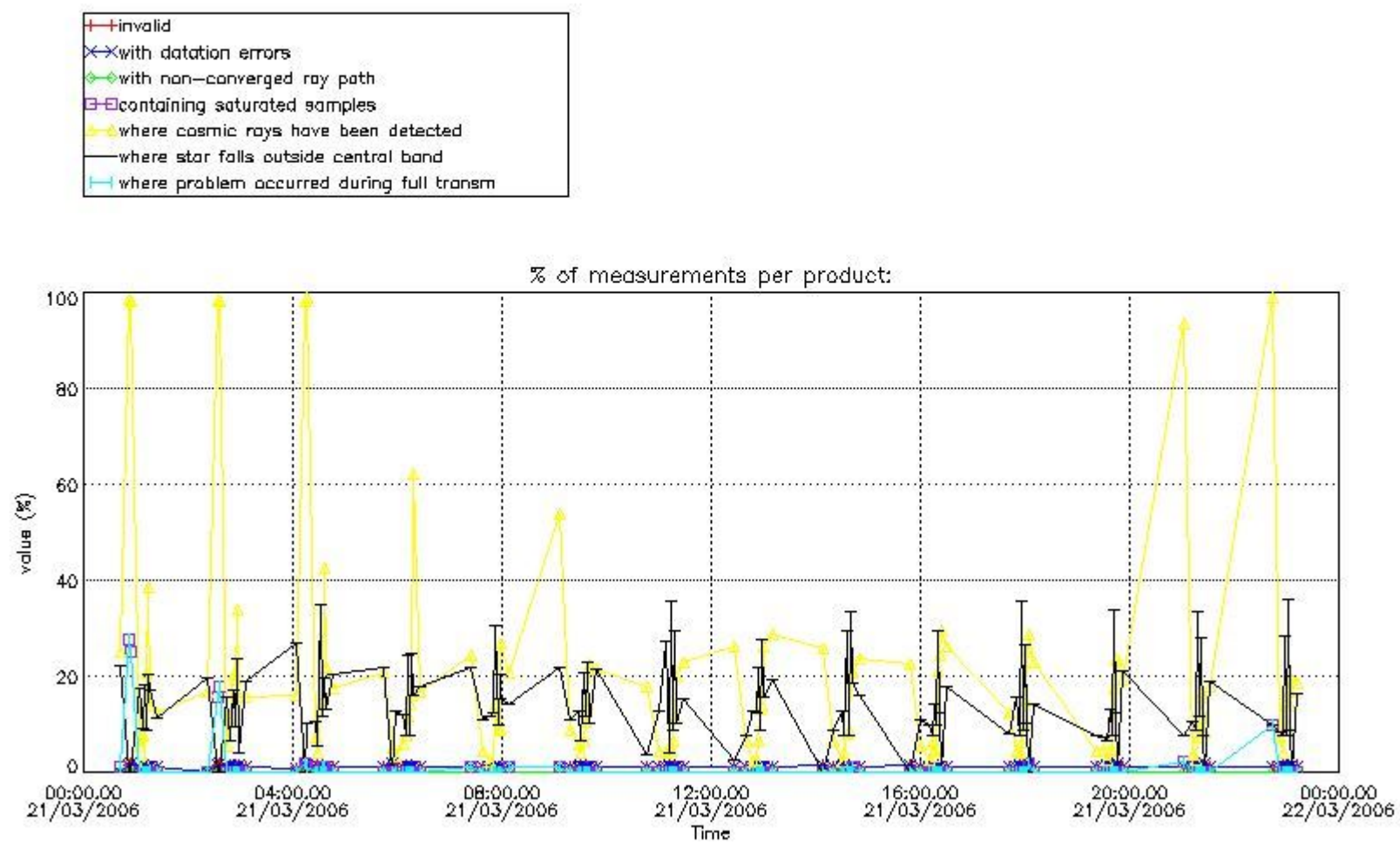


4. Level 1 quality information per product

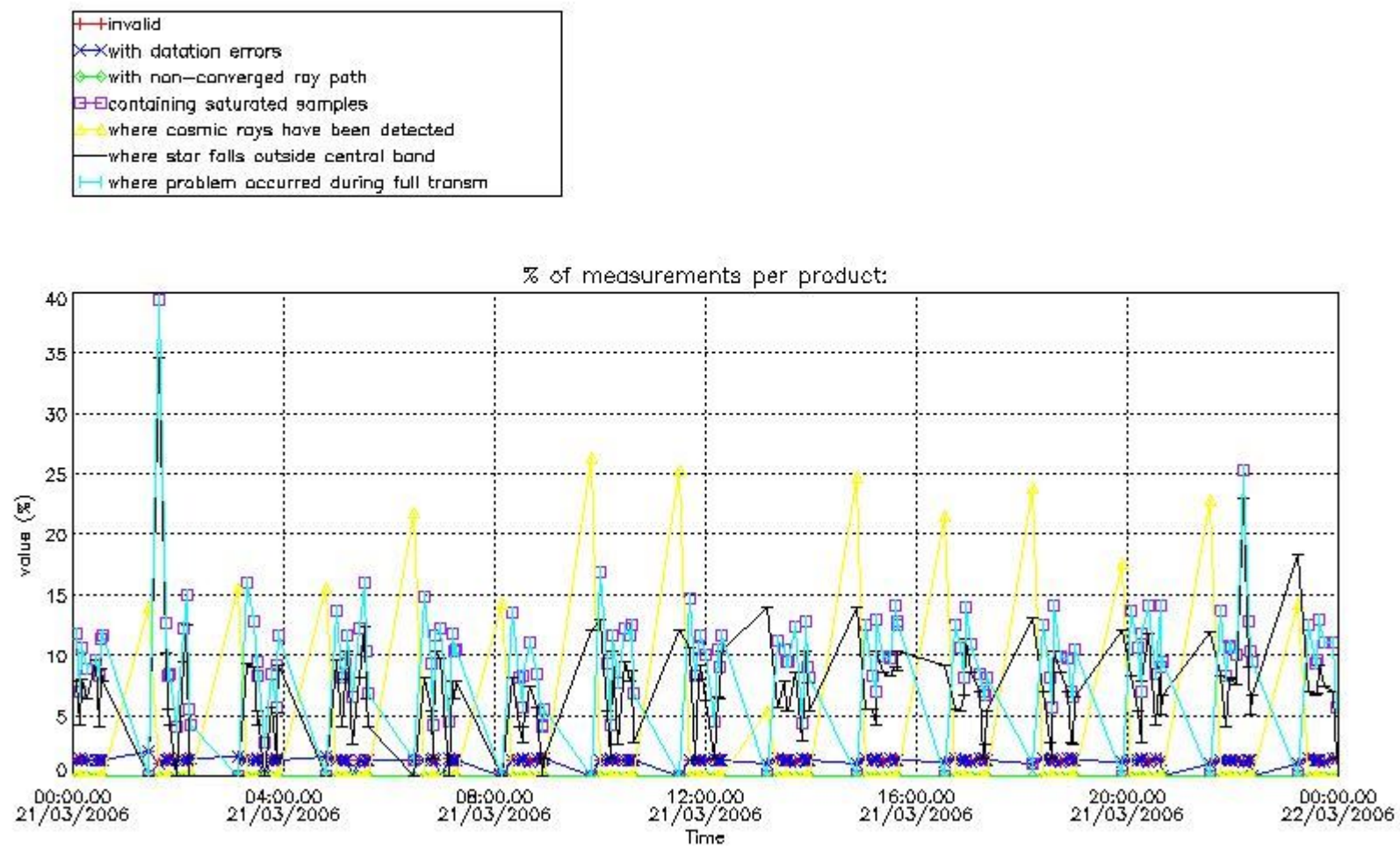
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

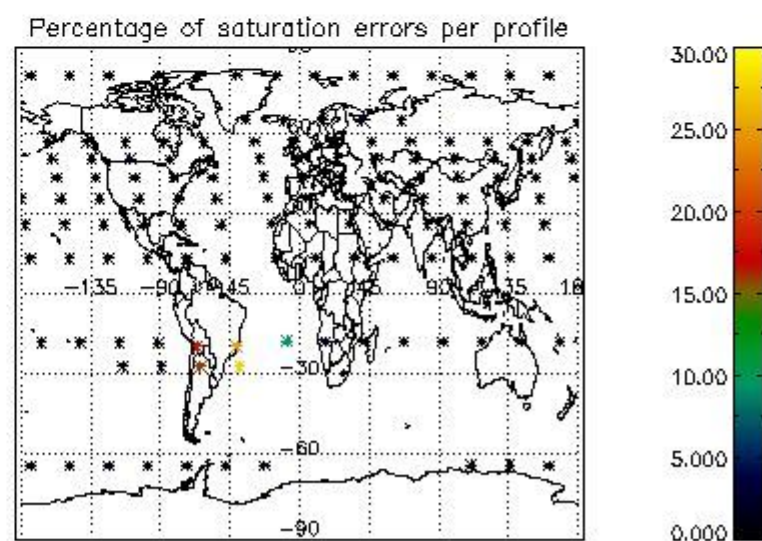
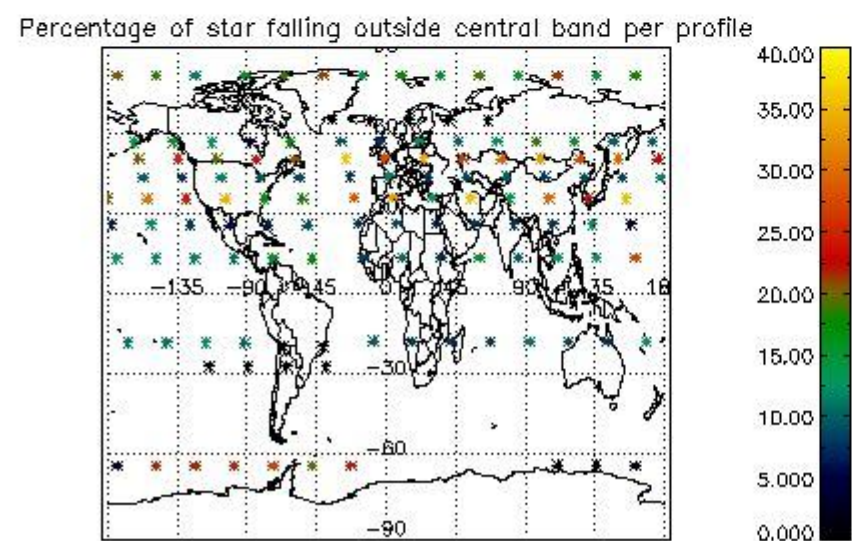
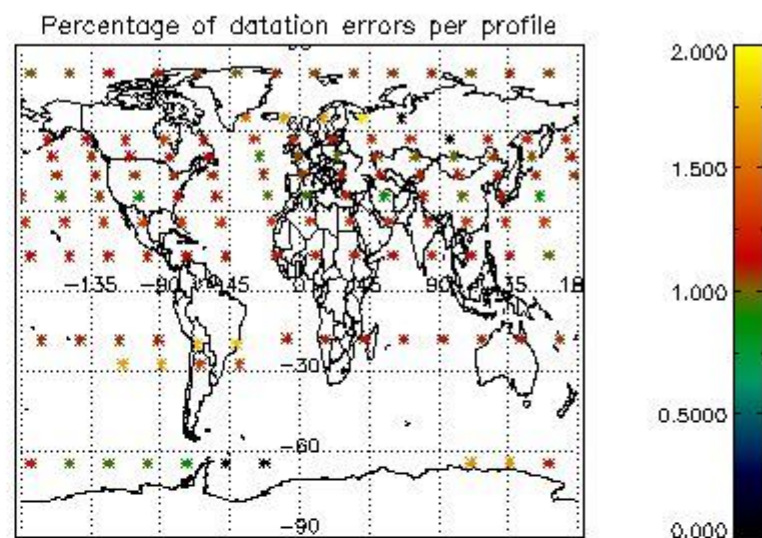
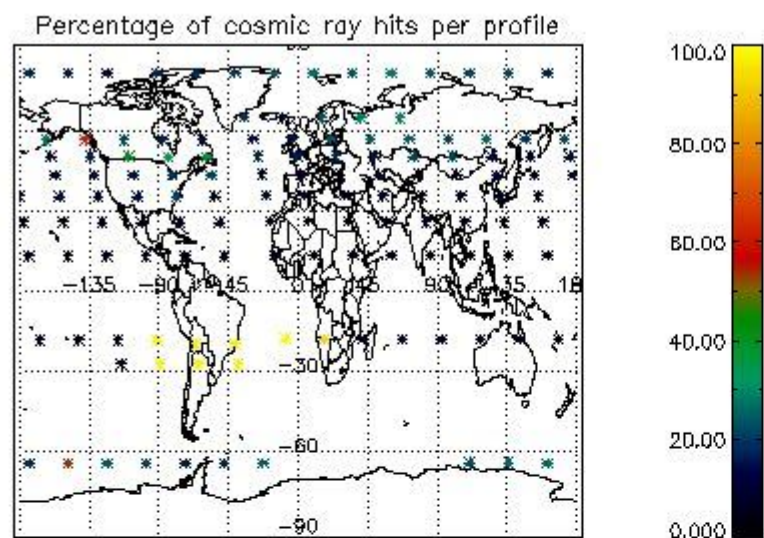


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

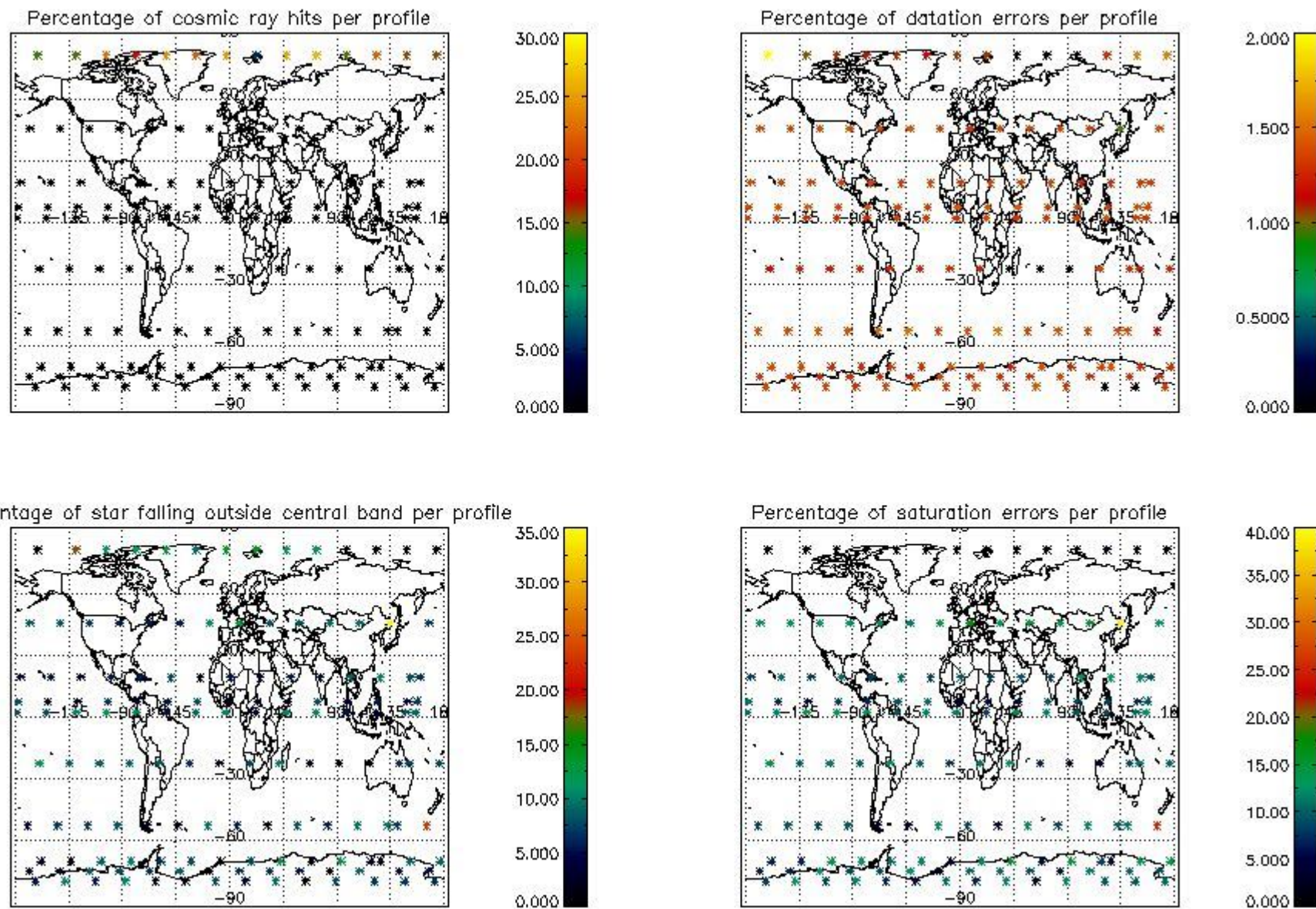


4.2 Plot quality information per product coming from level 1b processing (world map)

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

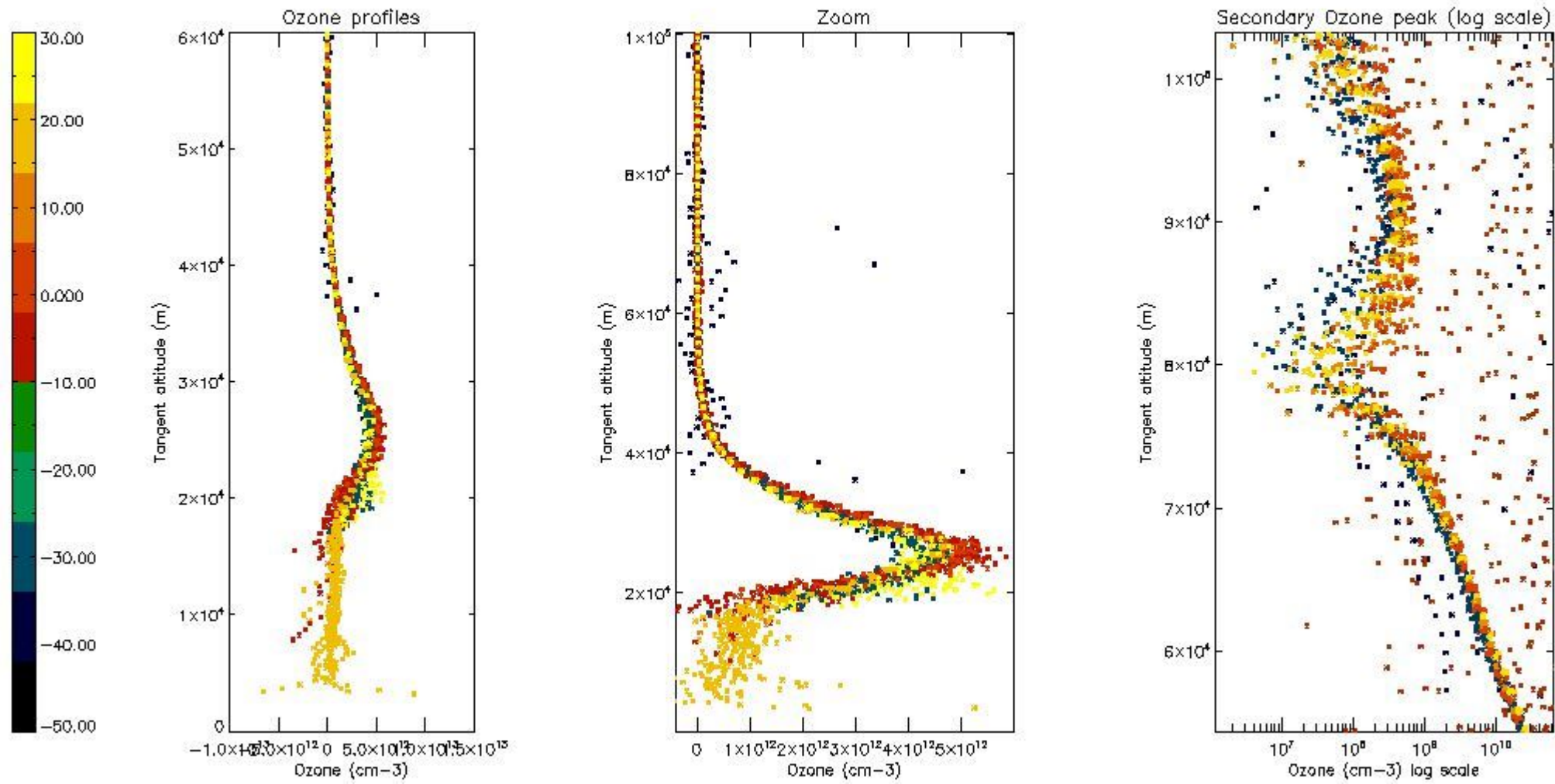
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	15

STD < 10	12
STD < 5	7

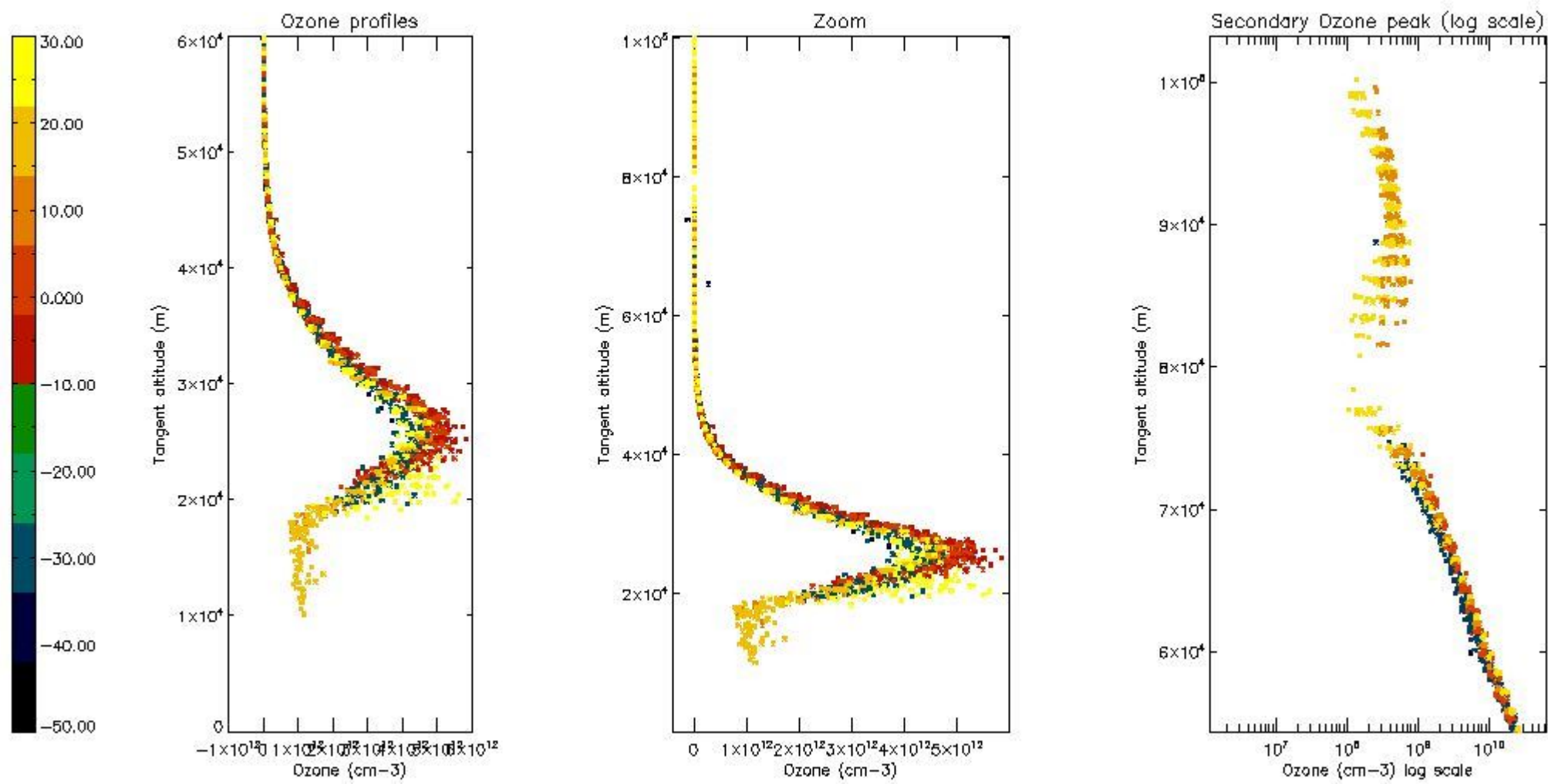
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



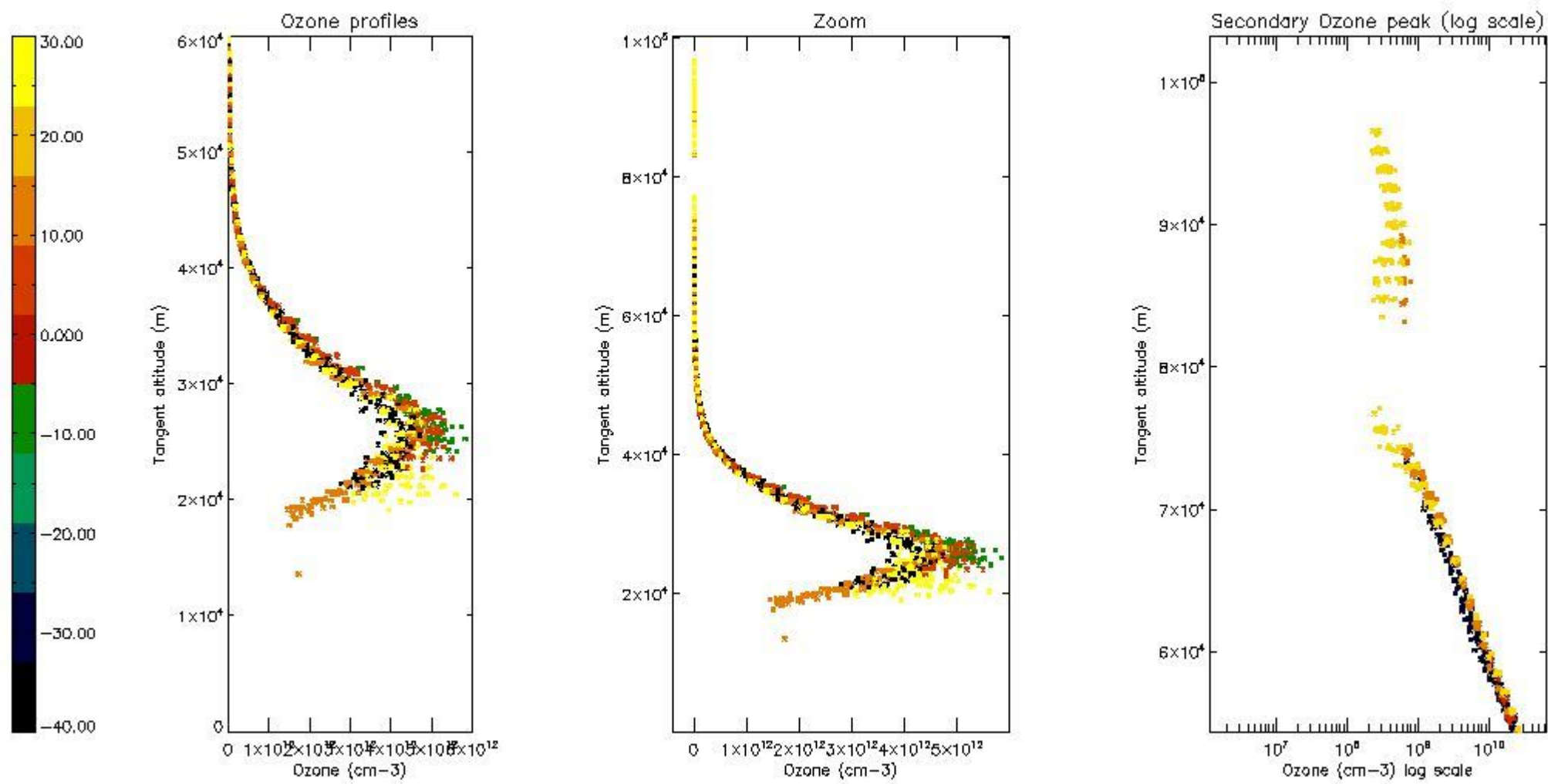
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



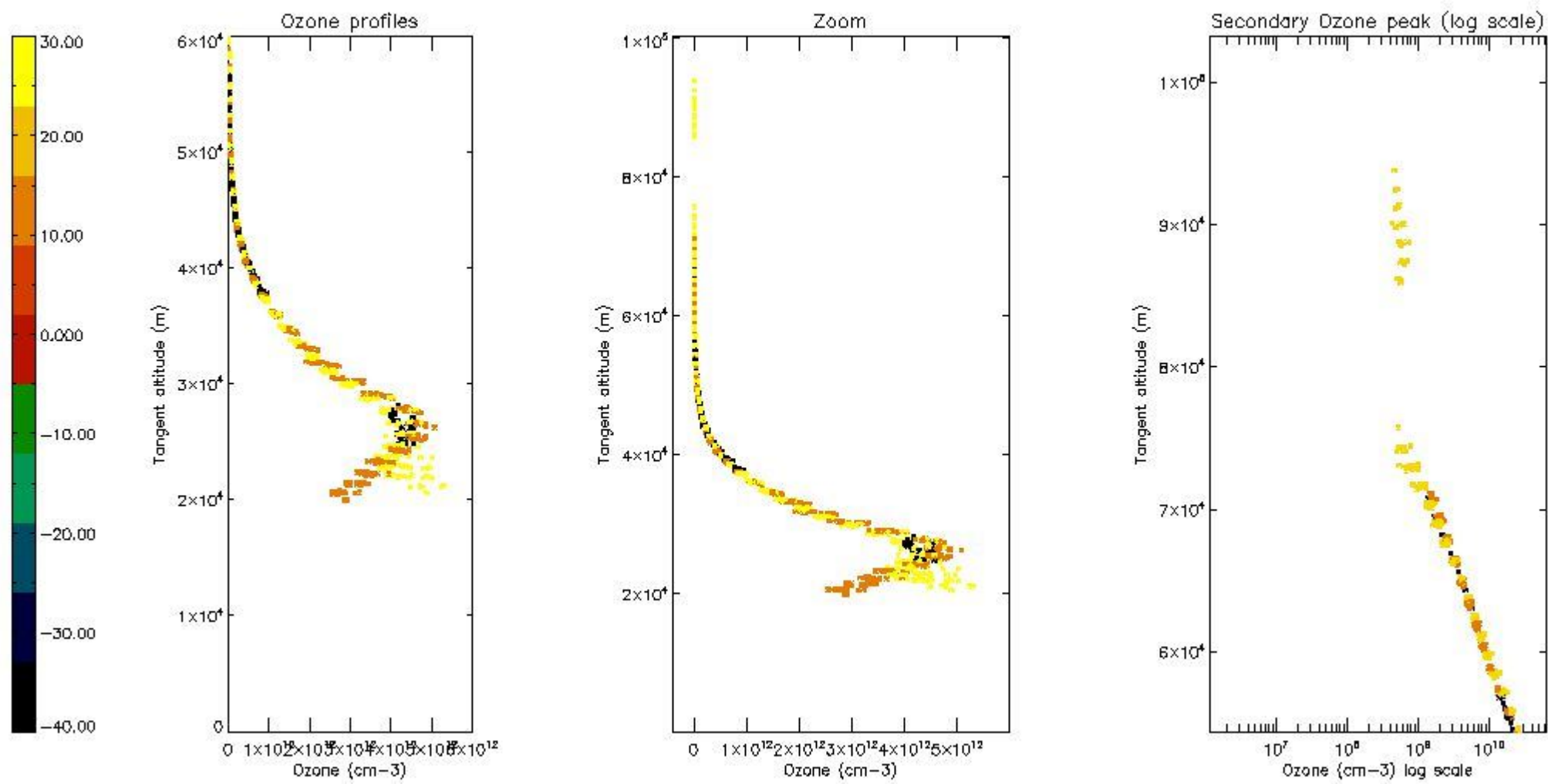
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



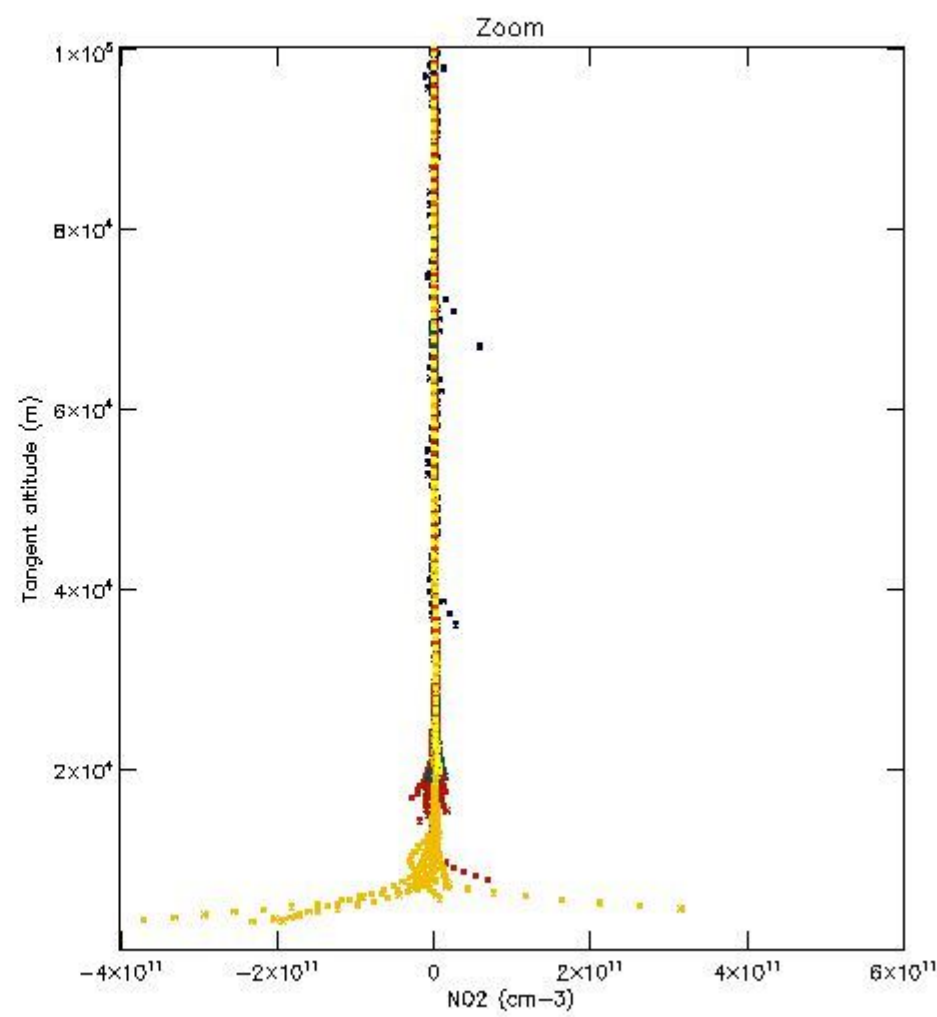
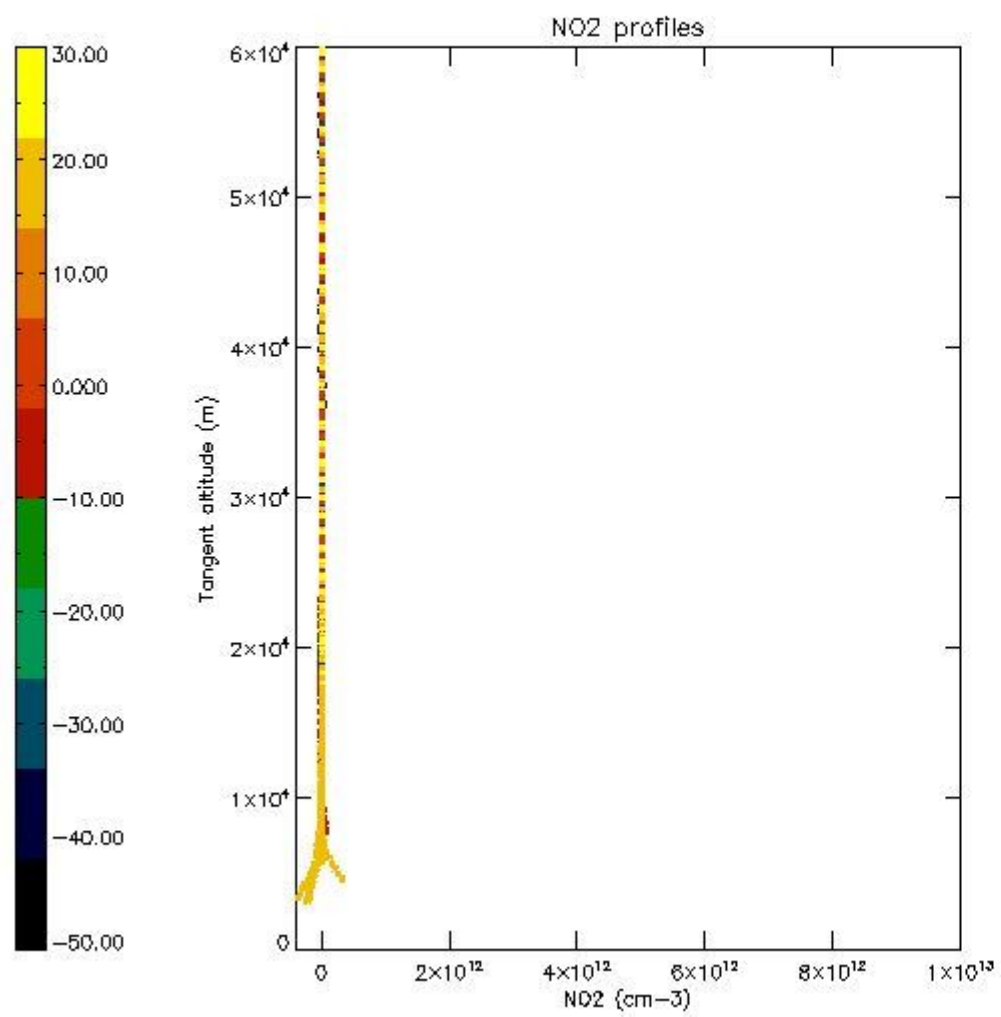
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



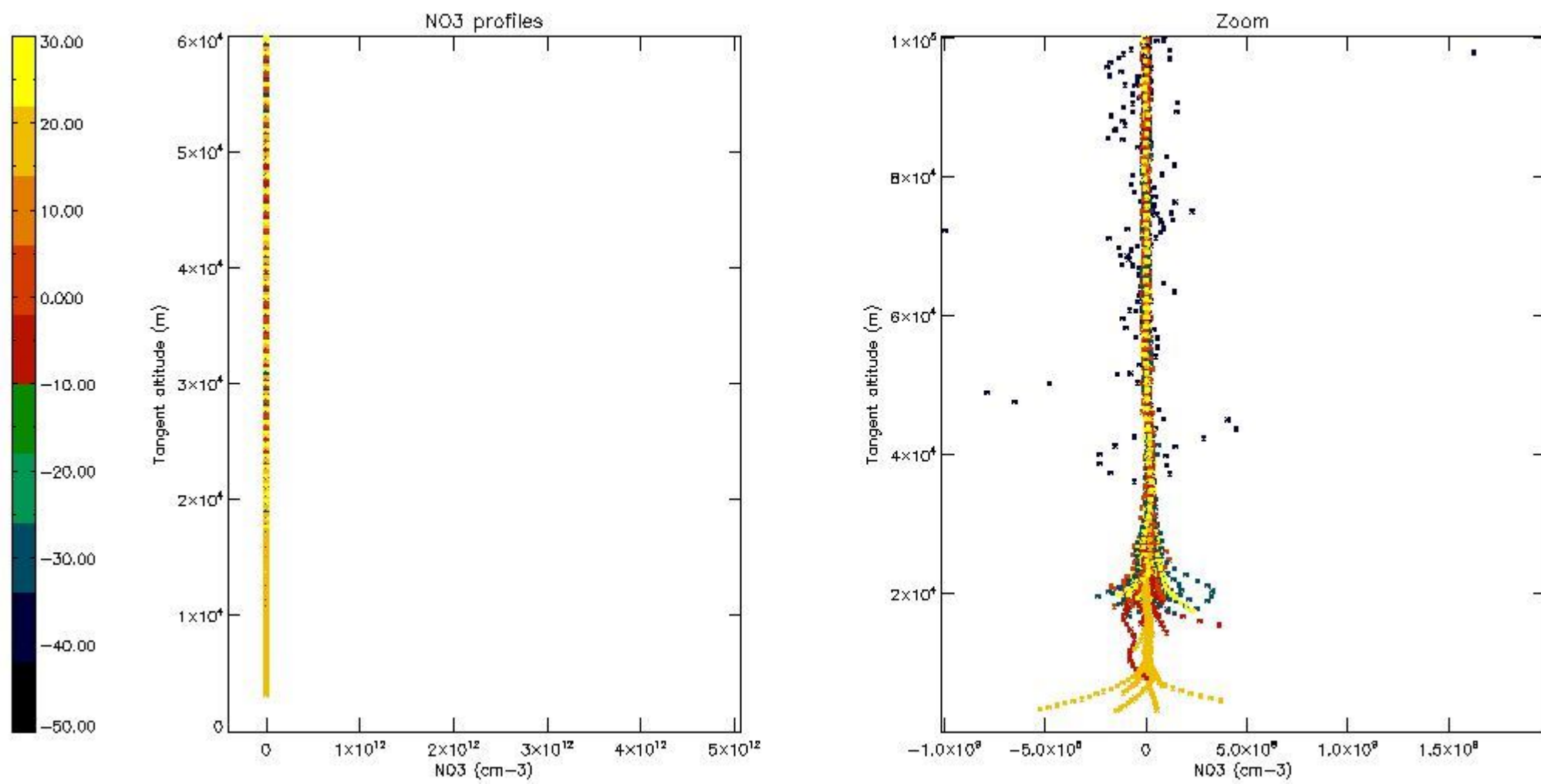
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



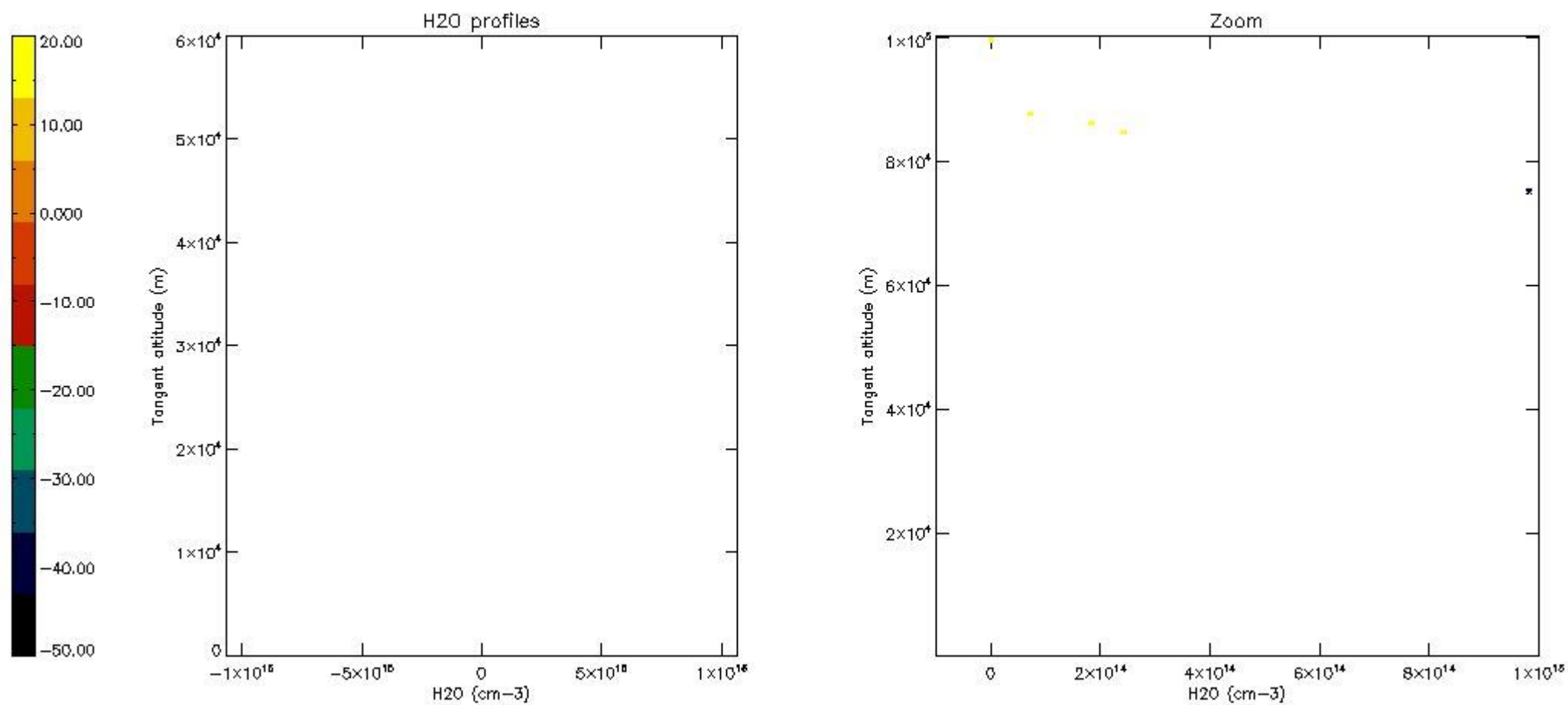
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

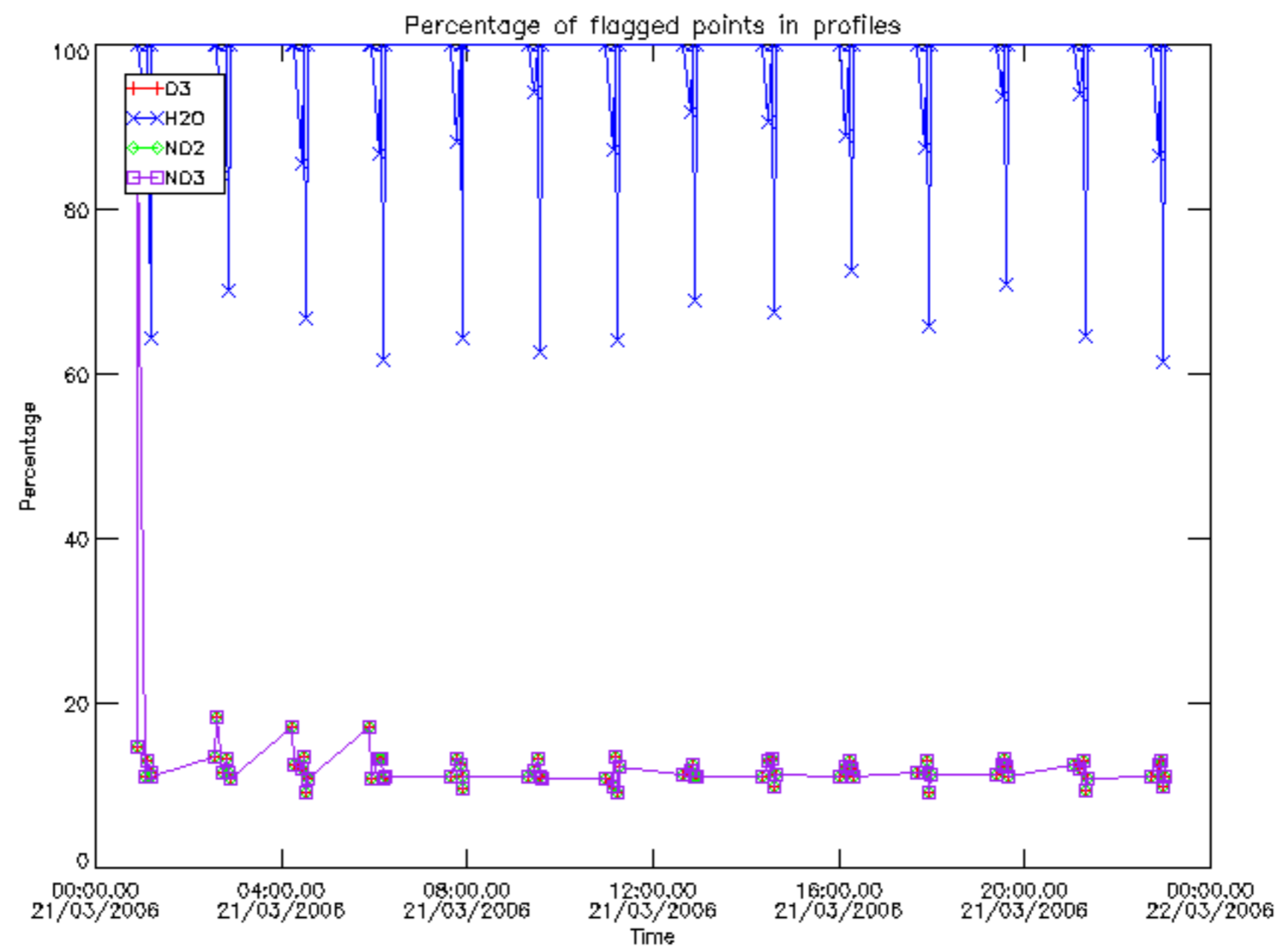
The colorbar represents the latitude.



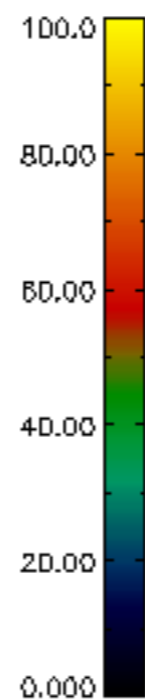
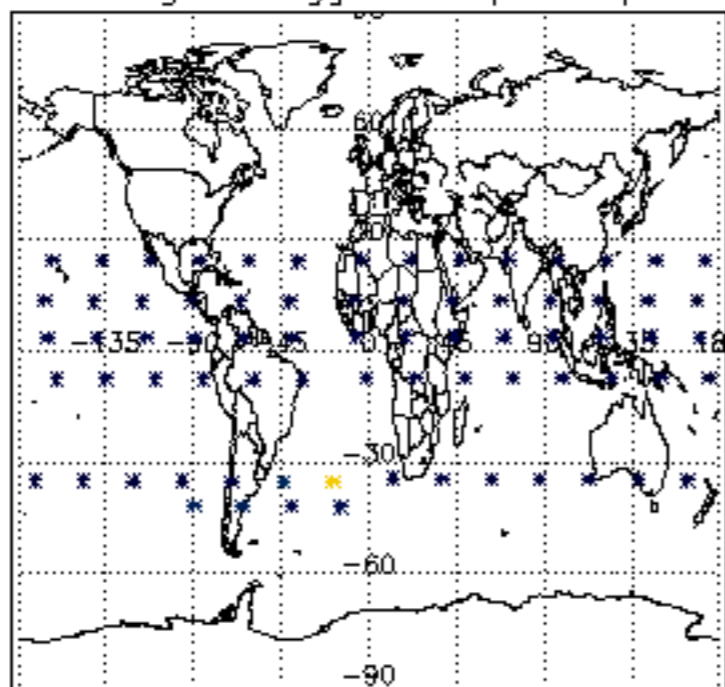
6. Auxiliary Data Files used for the production reported in section 2

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.

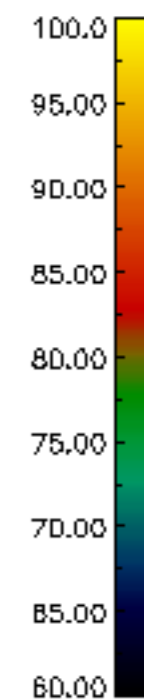
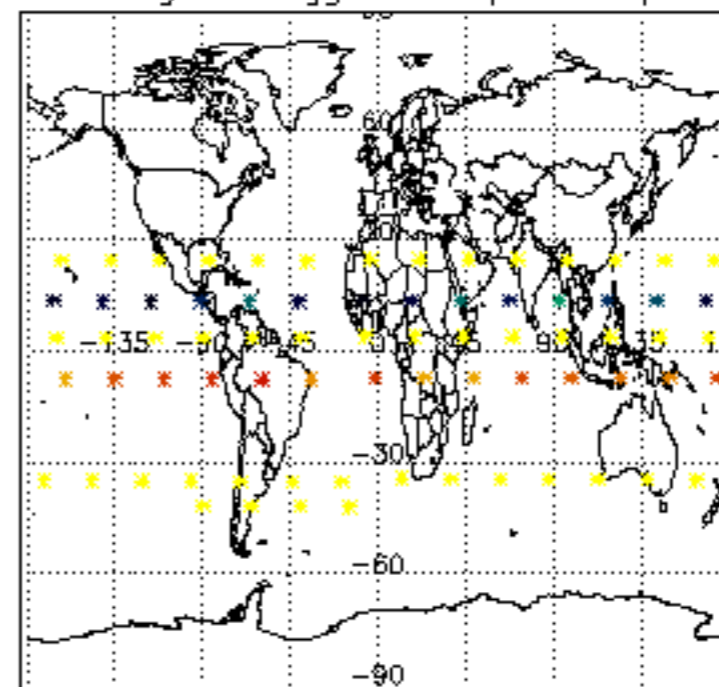
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	21-MAR-2006 00:04:49
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-MAR-2006 00:04:49
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-MAR-2006 00:04:49



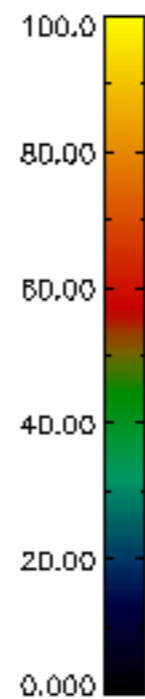
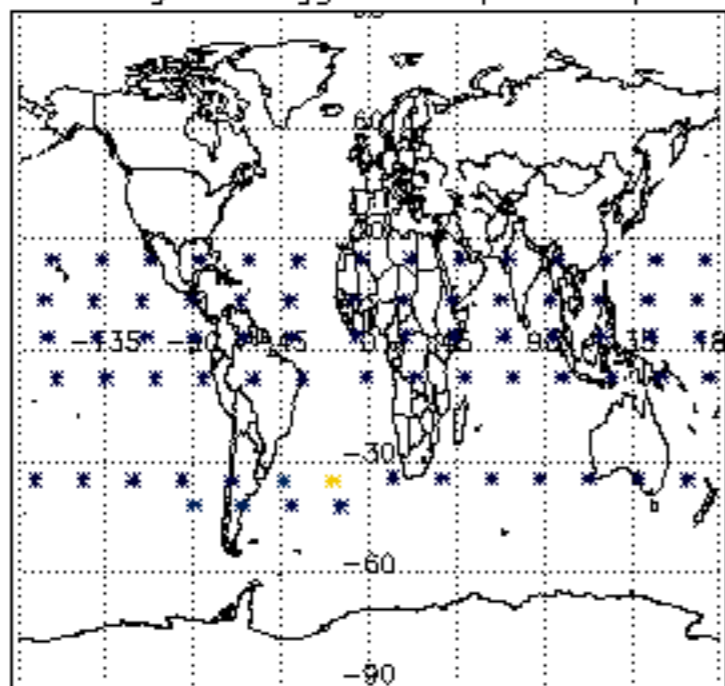
Percentage of flagged data per D3 profile



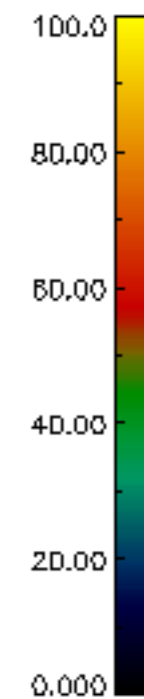
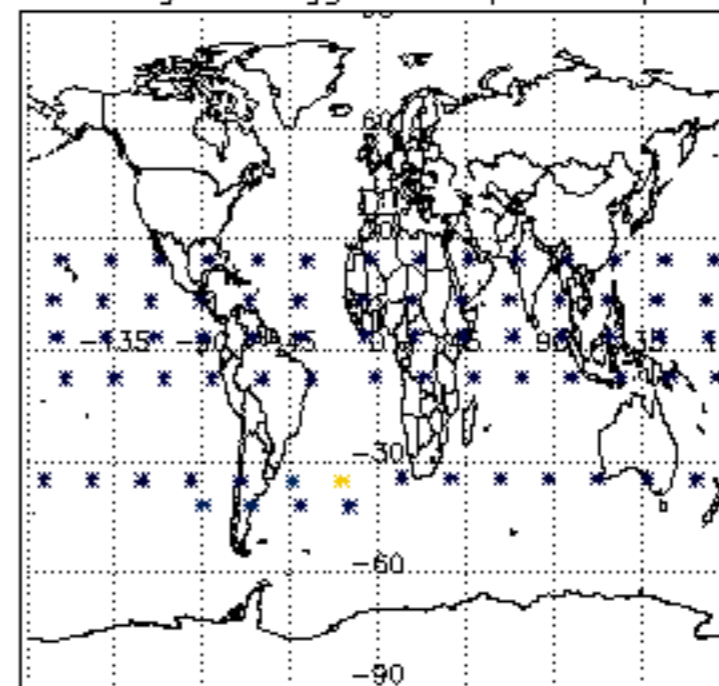
Percentage of flagged data per H2O profile

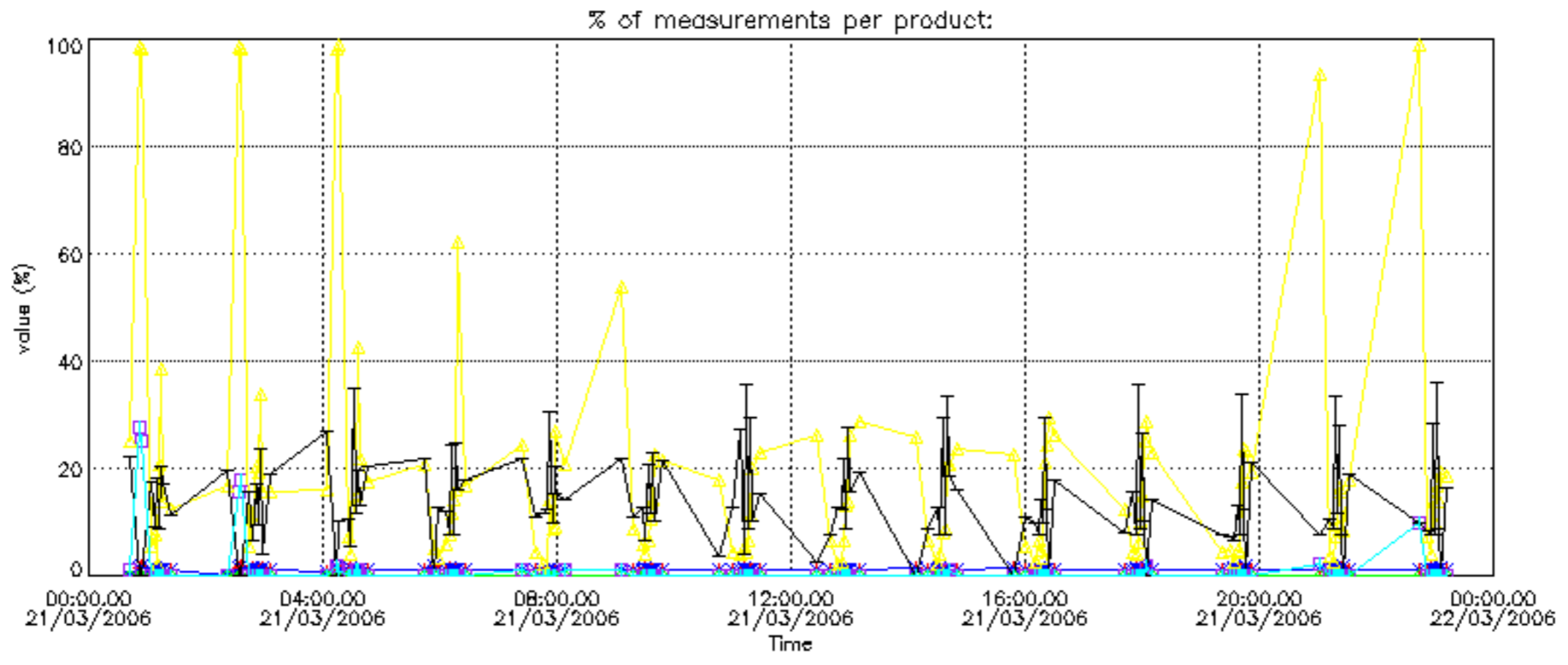


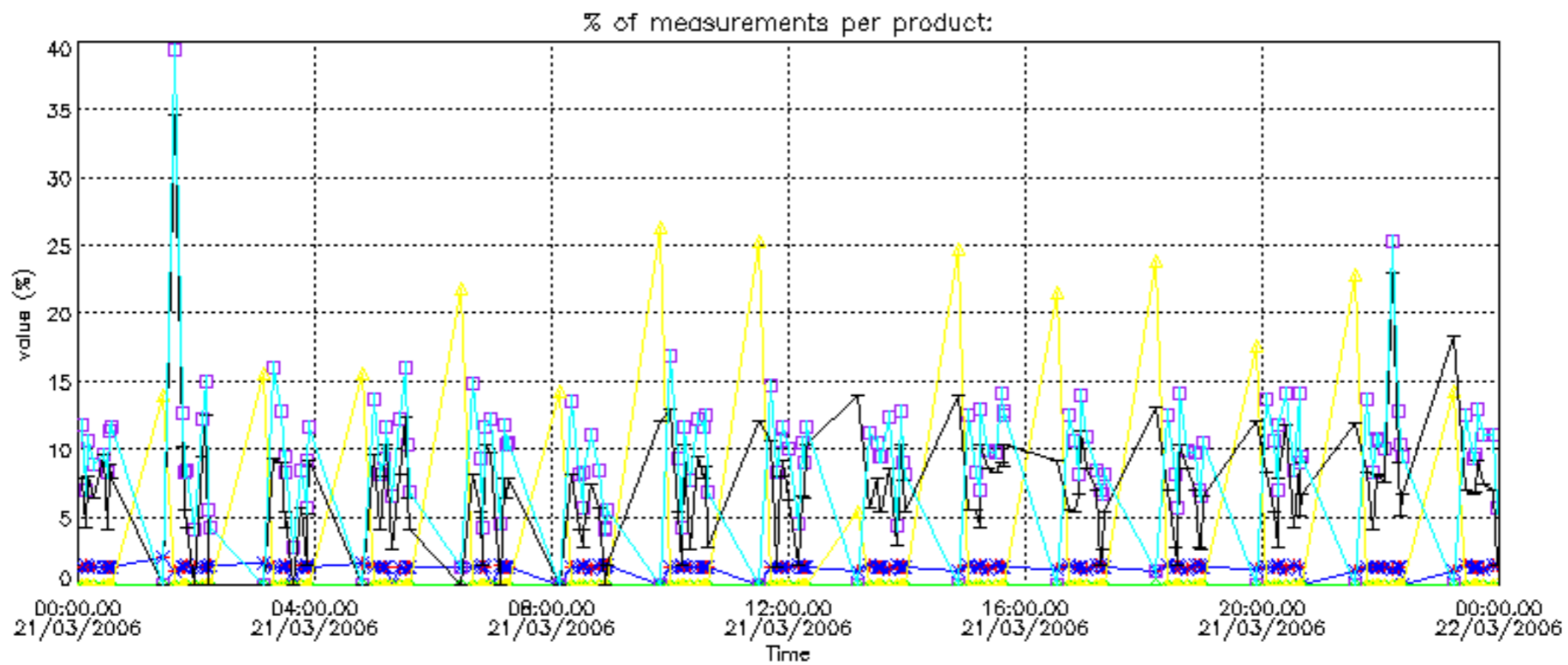
Percentage of flagged data per NO2 profile



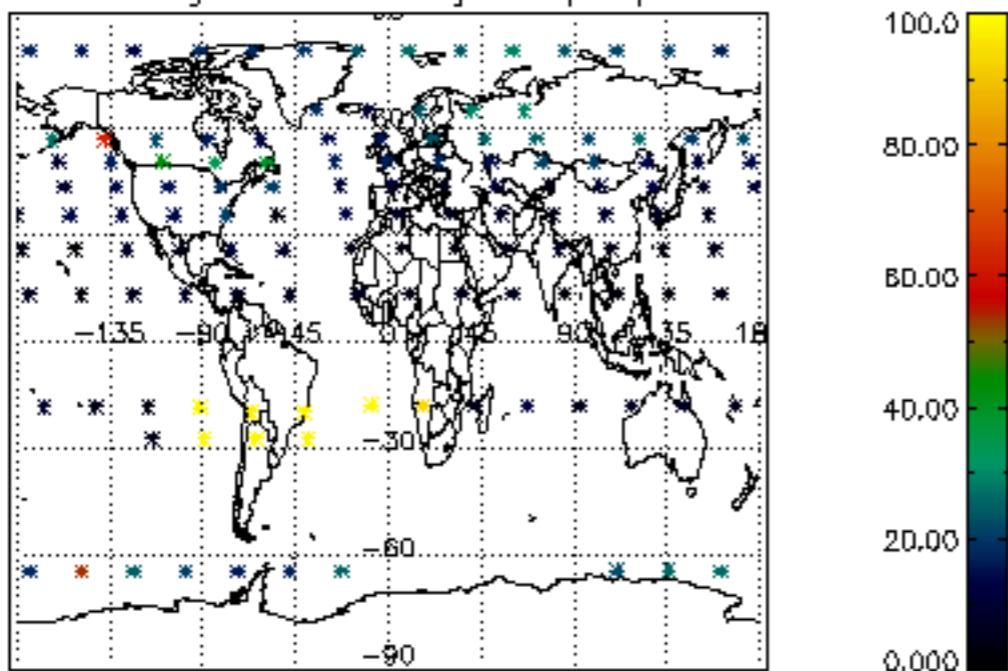
Percentage of flagged data per NO3 profile



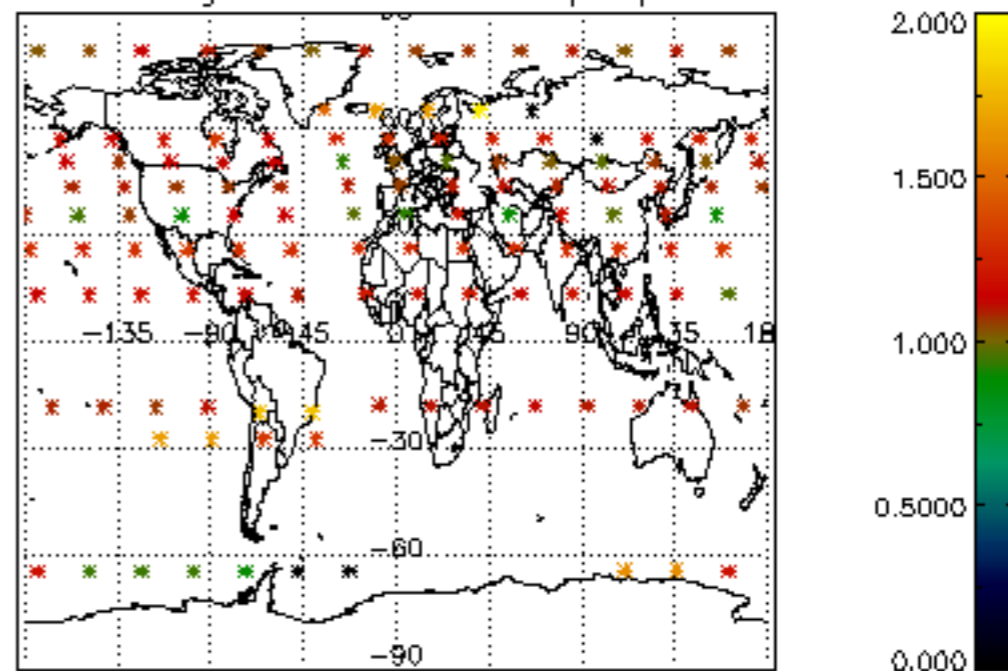




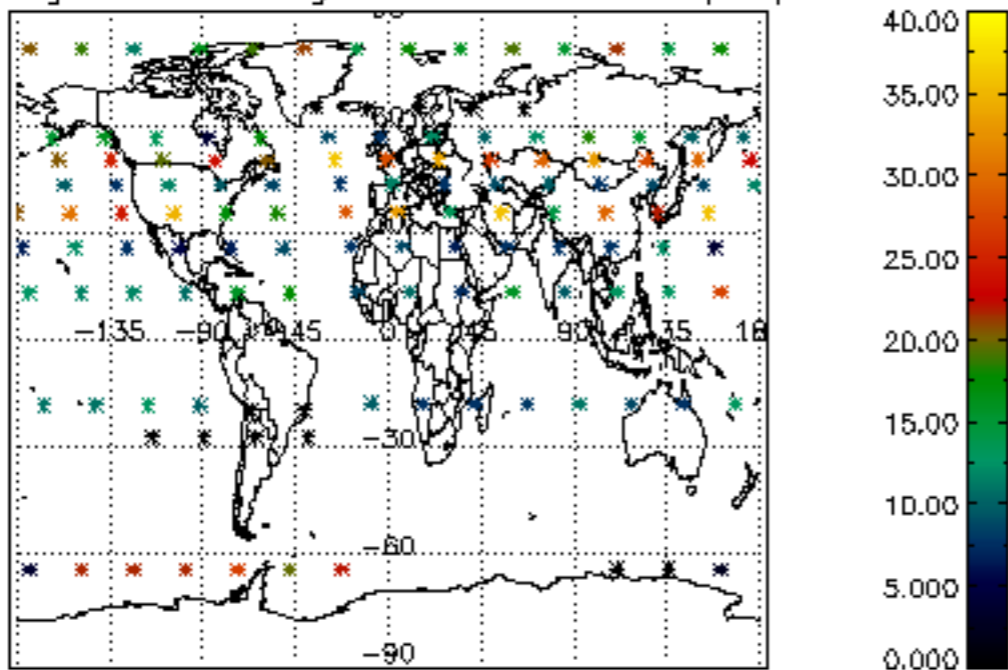
Percentage of cosmic ray hits per profile



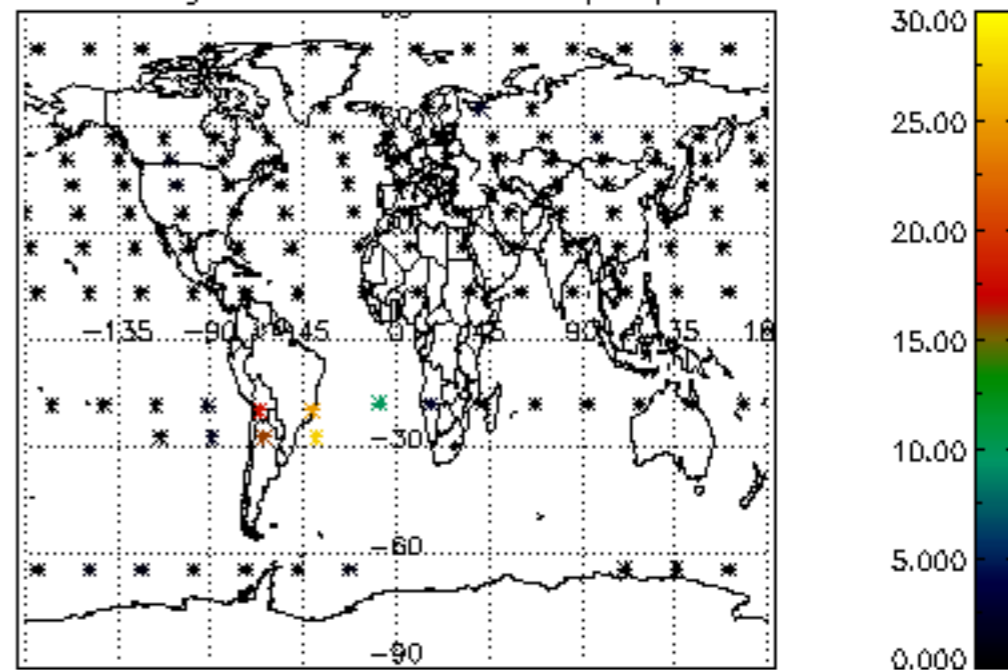
Percentage of datation errors per profile



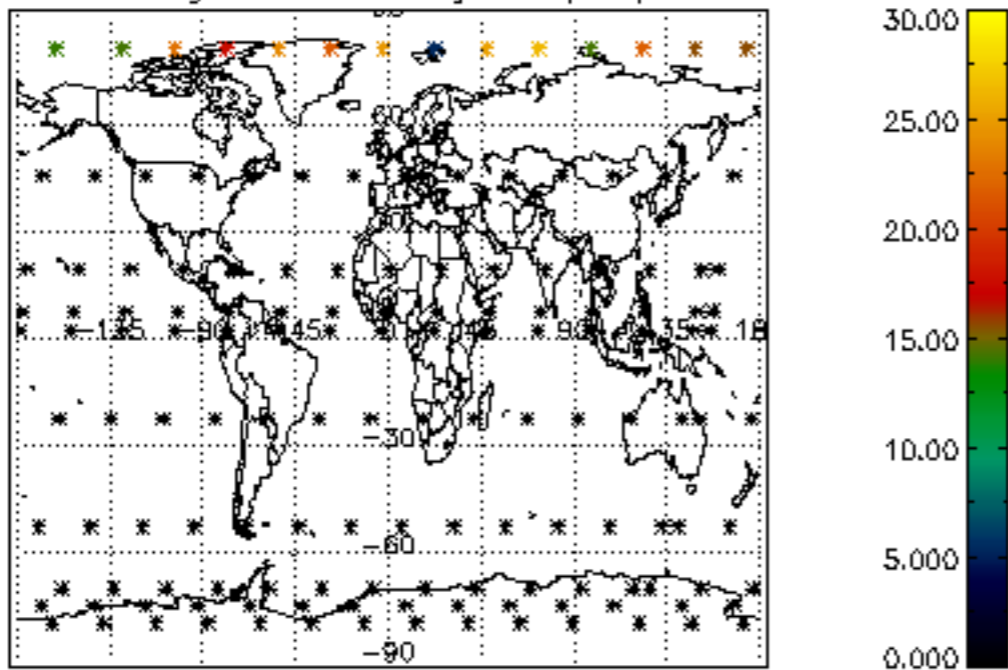
Percentage of star falling outside central band per profile



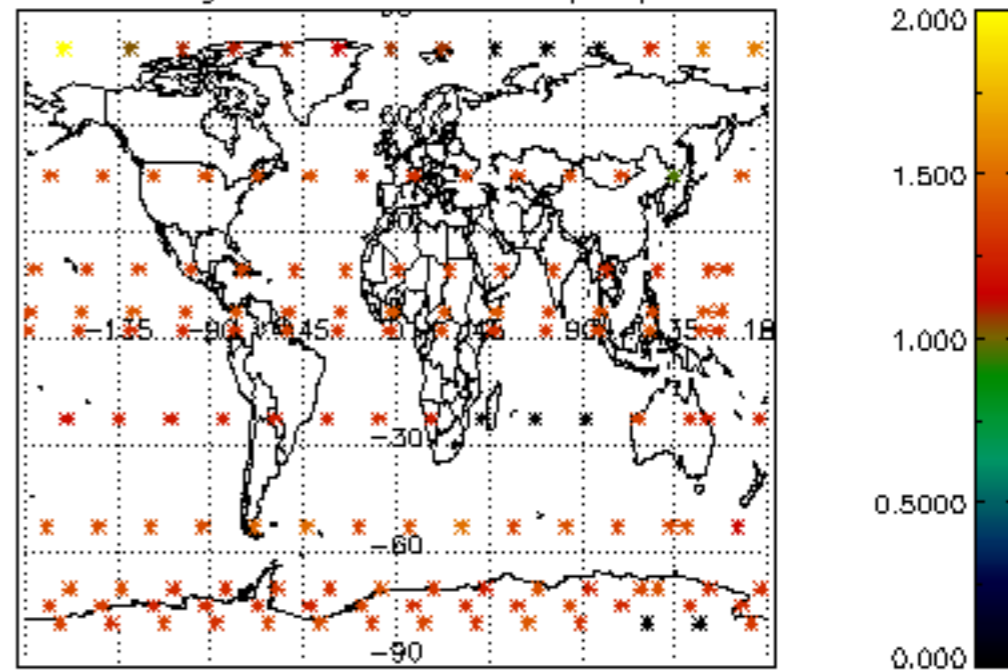
Percentage of saturation errors per profile



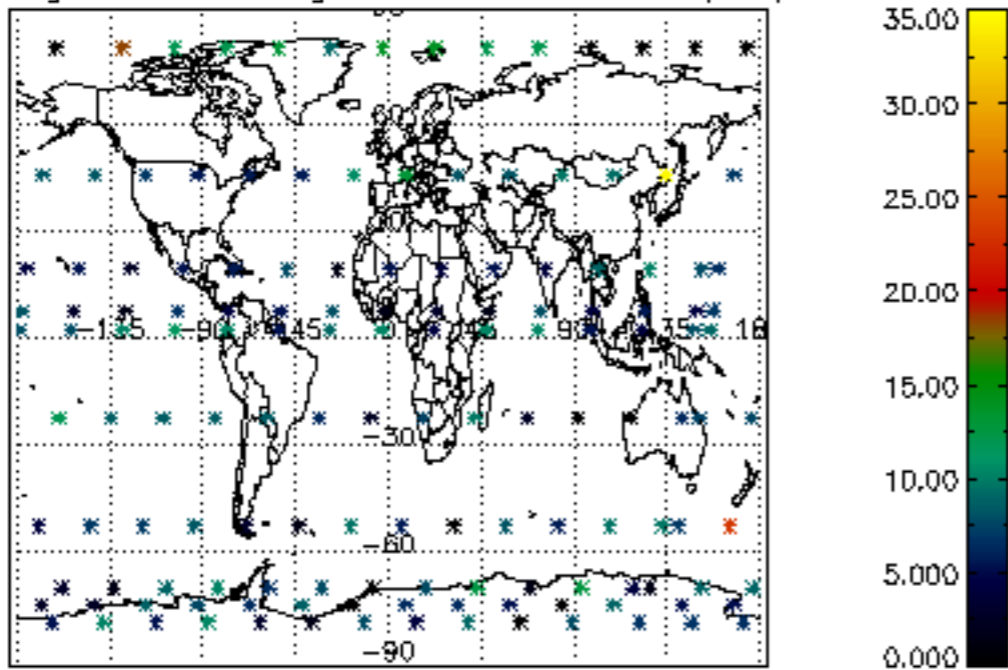
Percentage of cosmic ray hits per profile



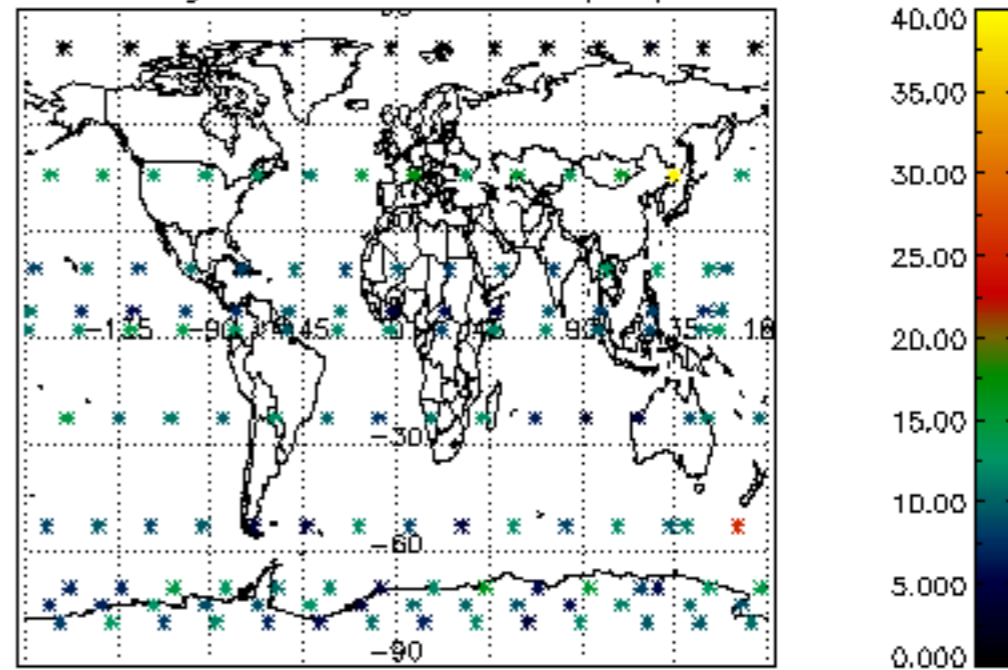
Percentage of datation errors per profile

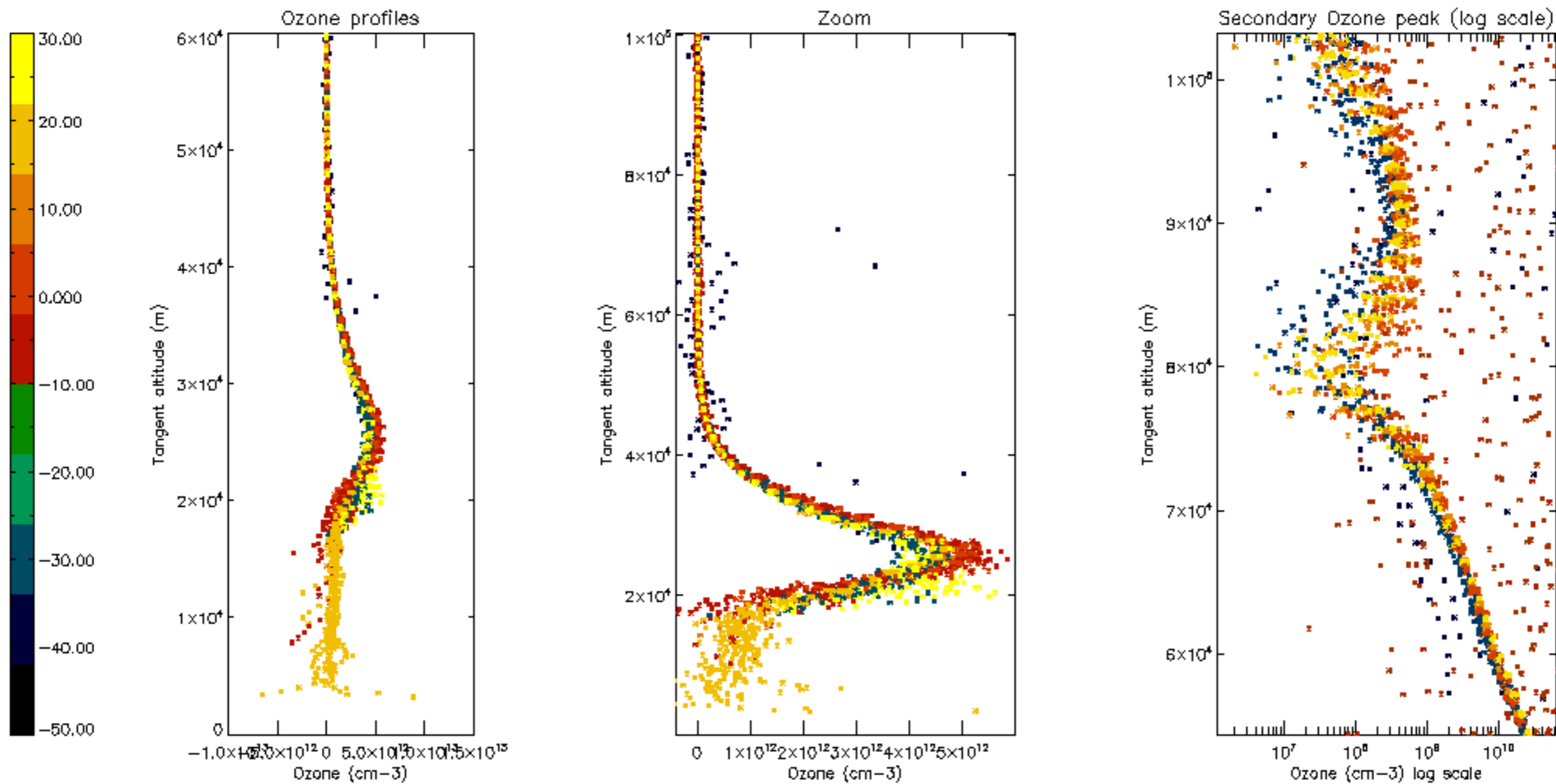


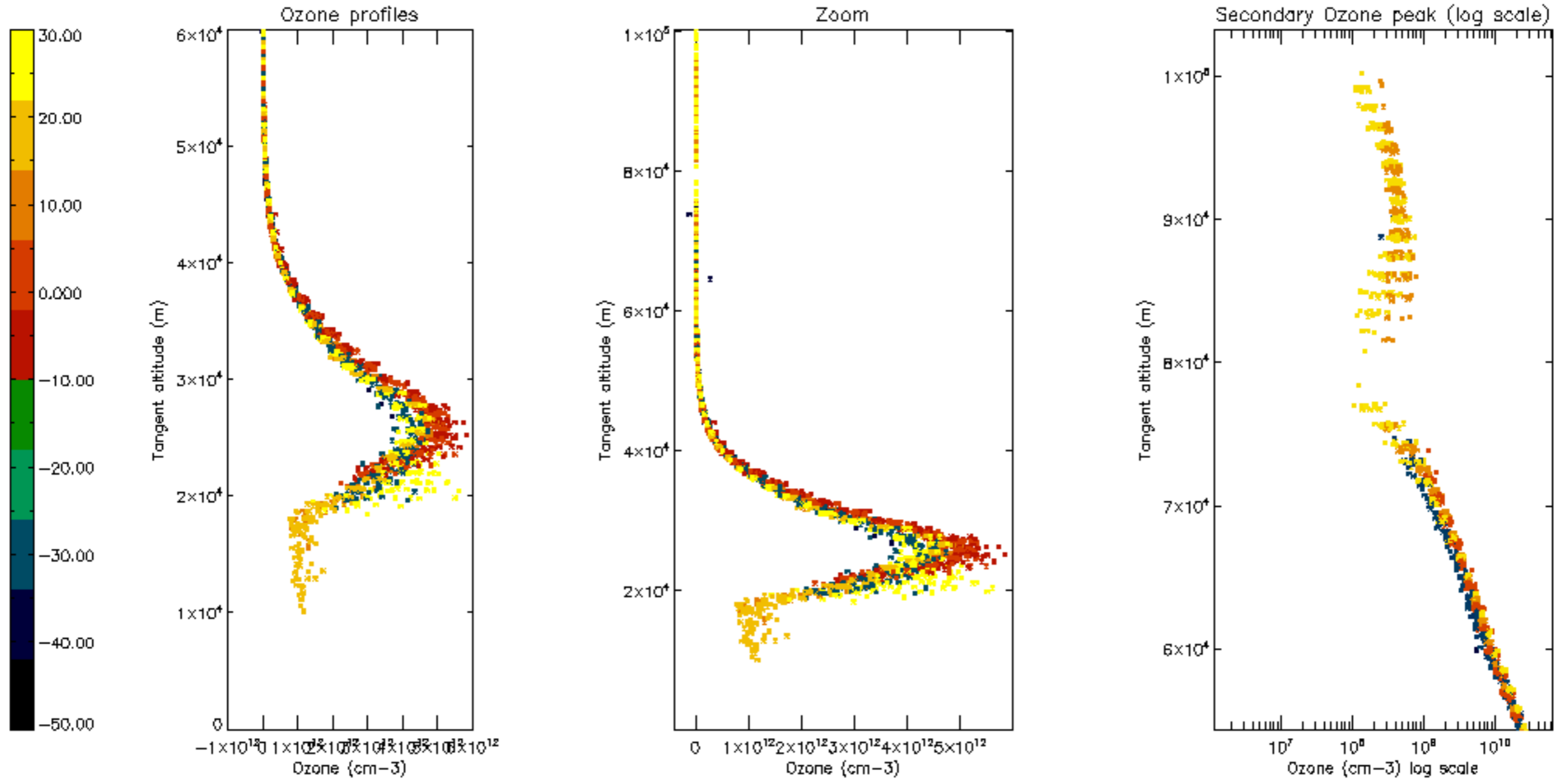
Percentage of star falling outside central band per profile

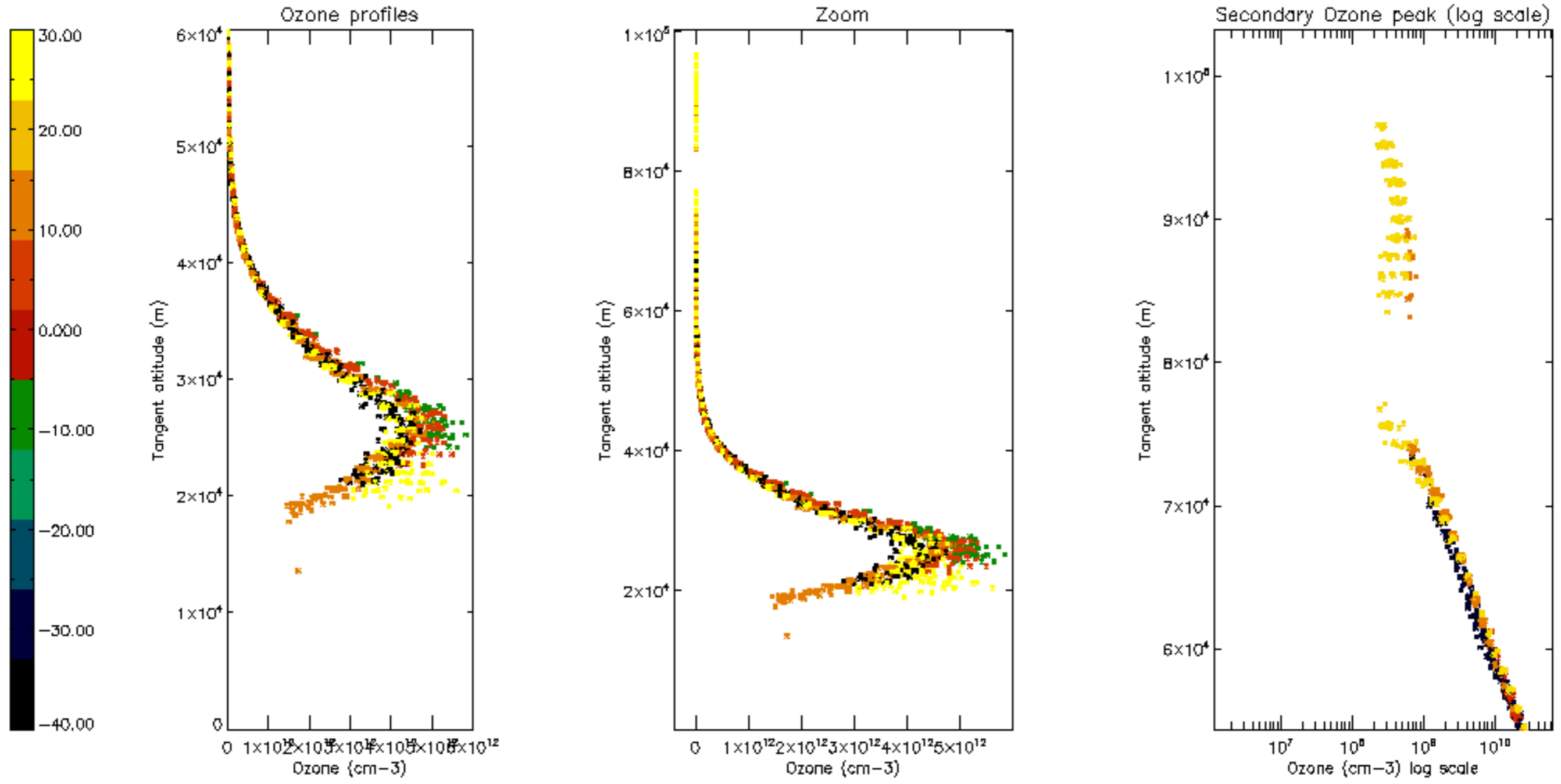


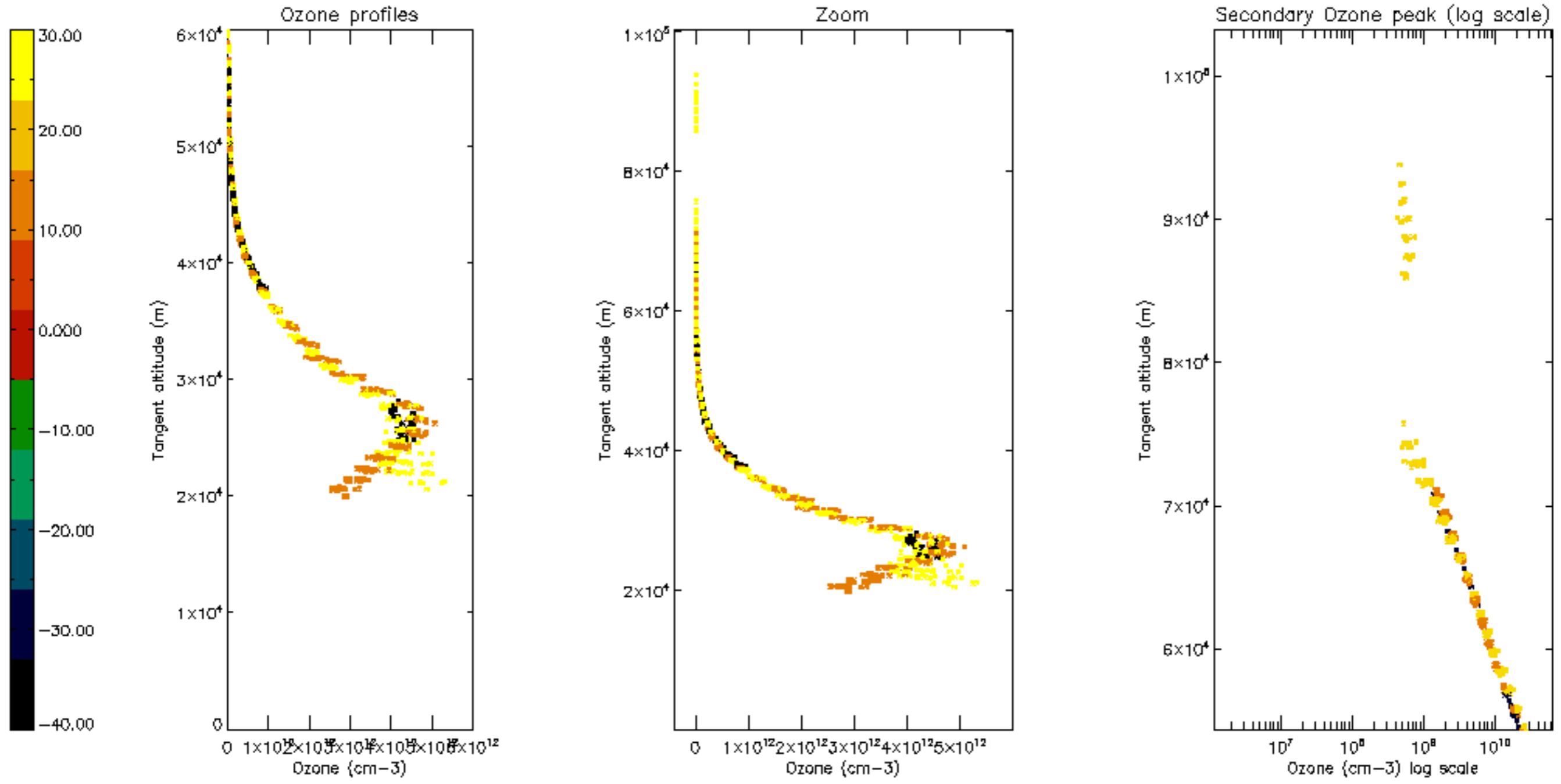
Percentage of saturation errors per profile

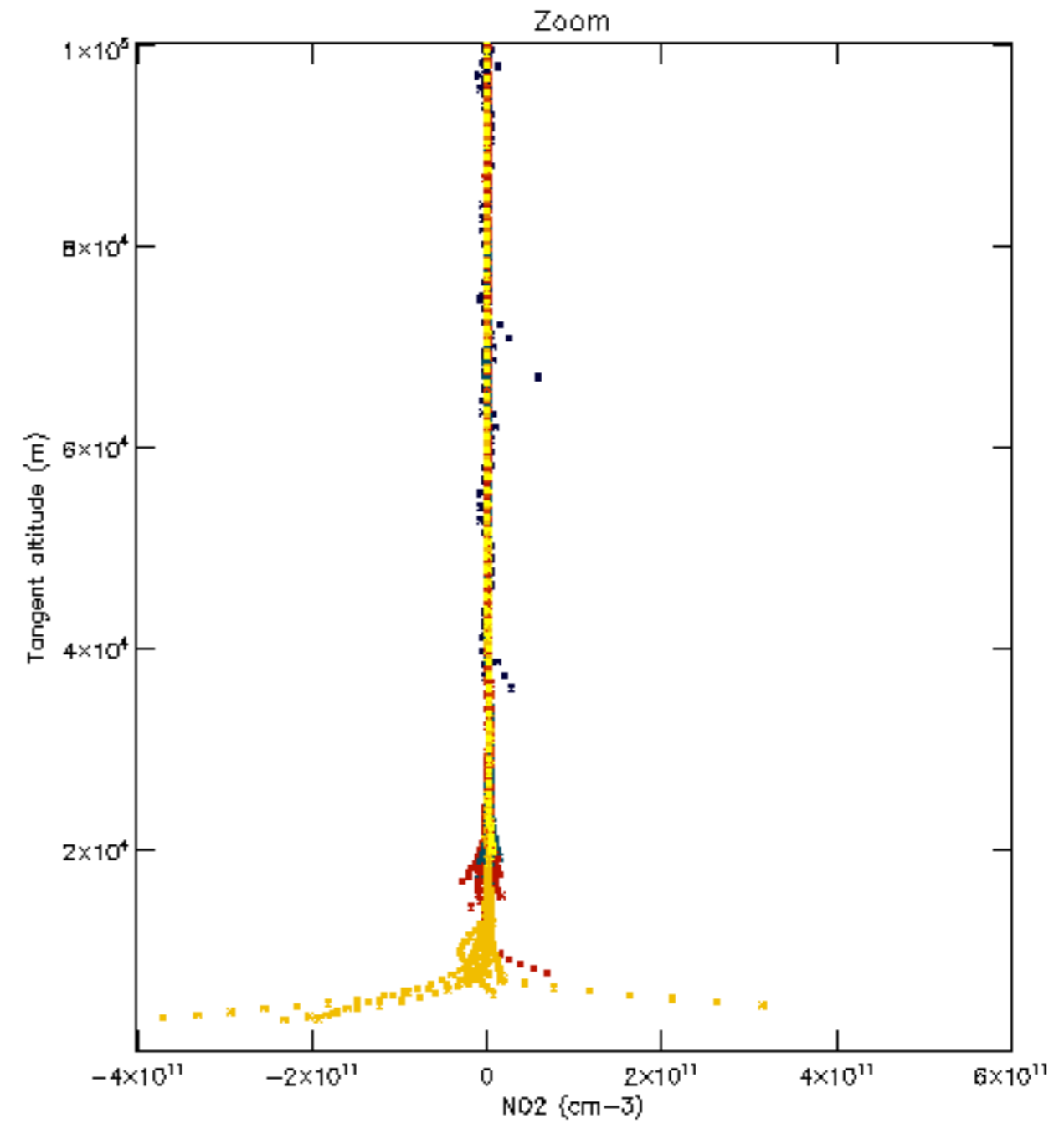
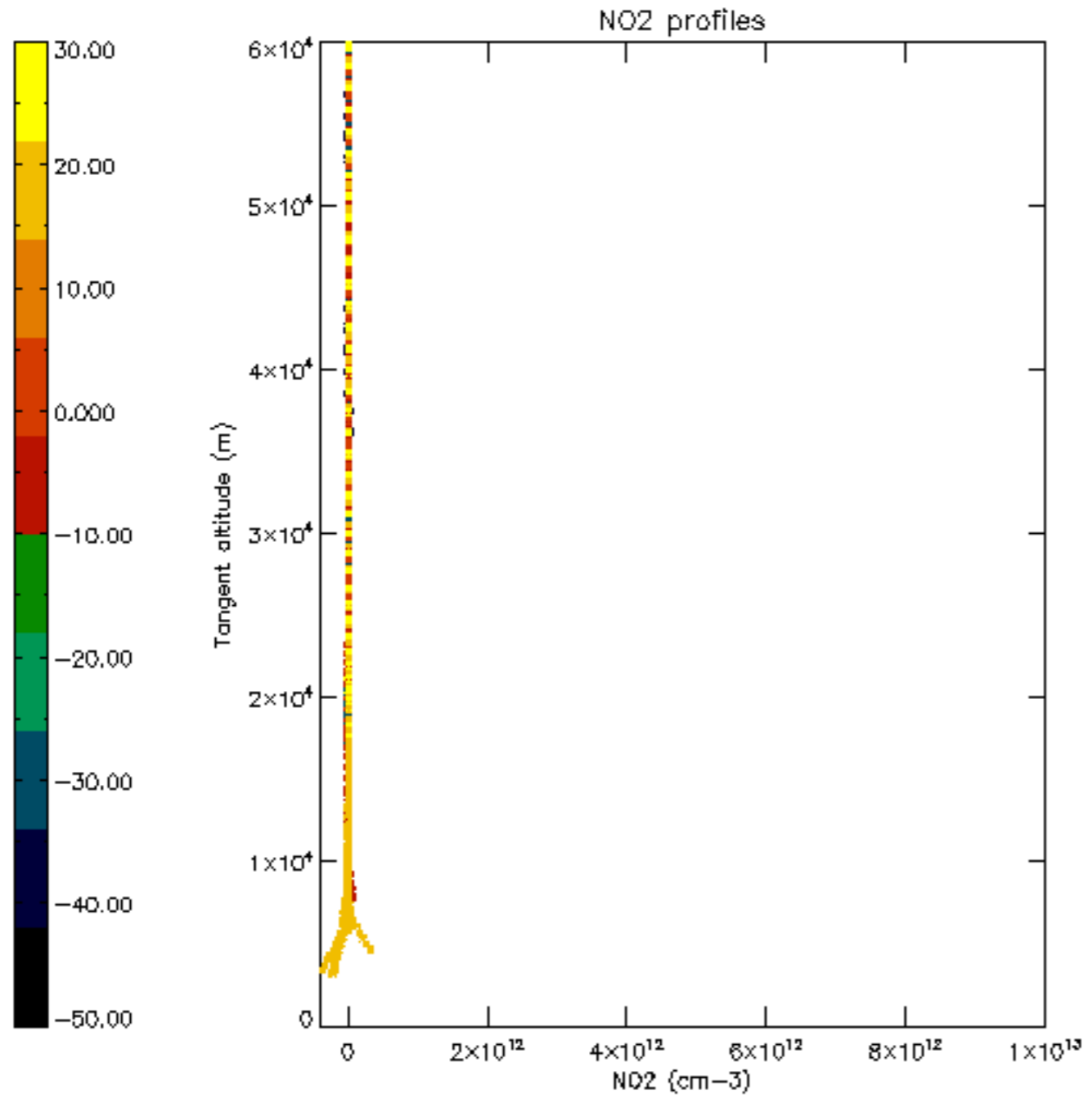


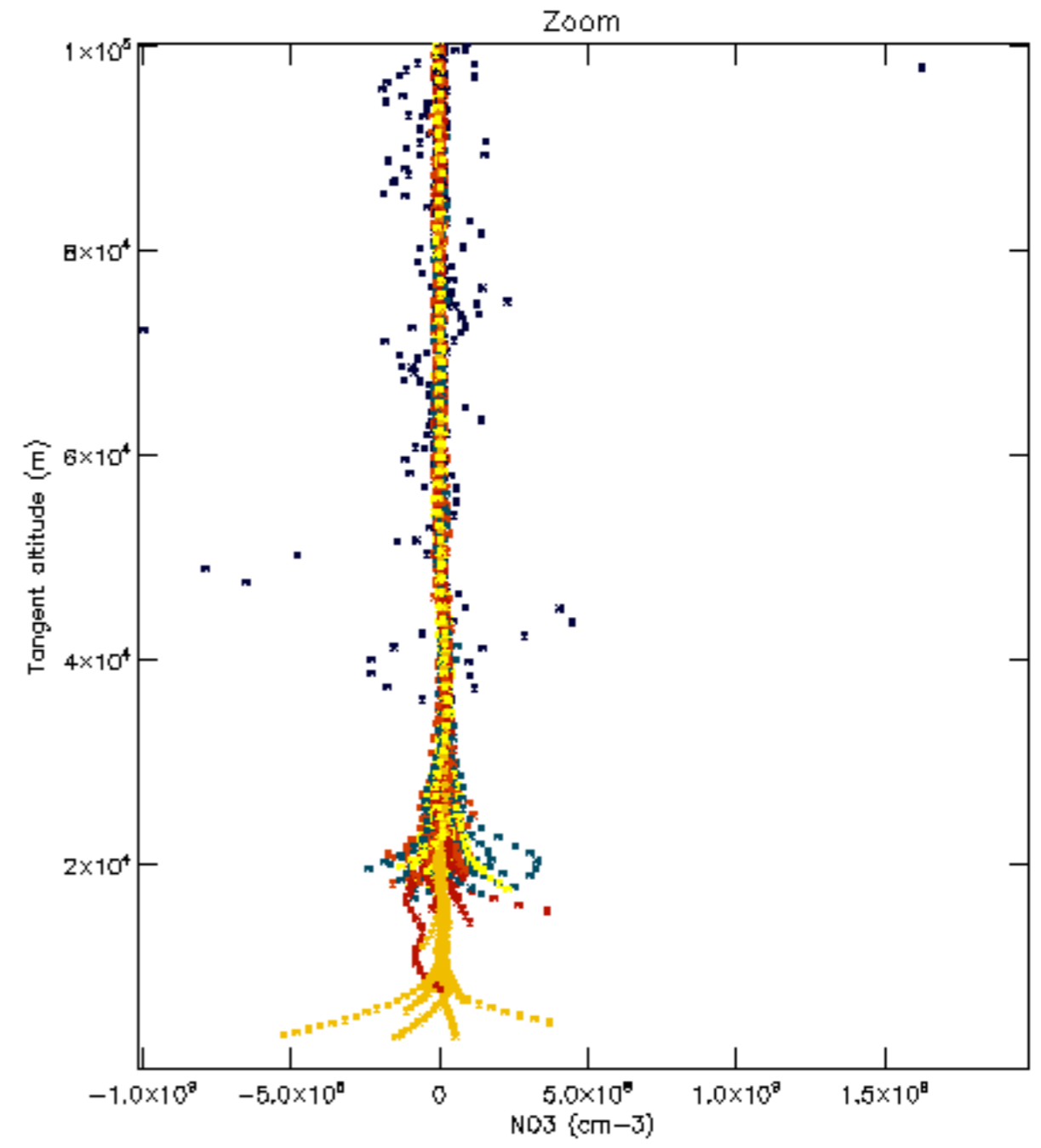
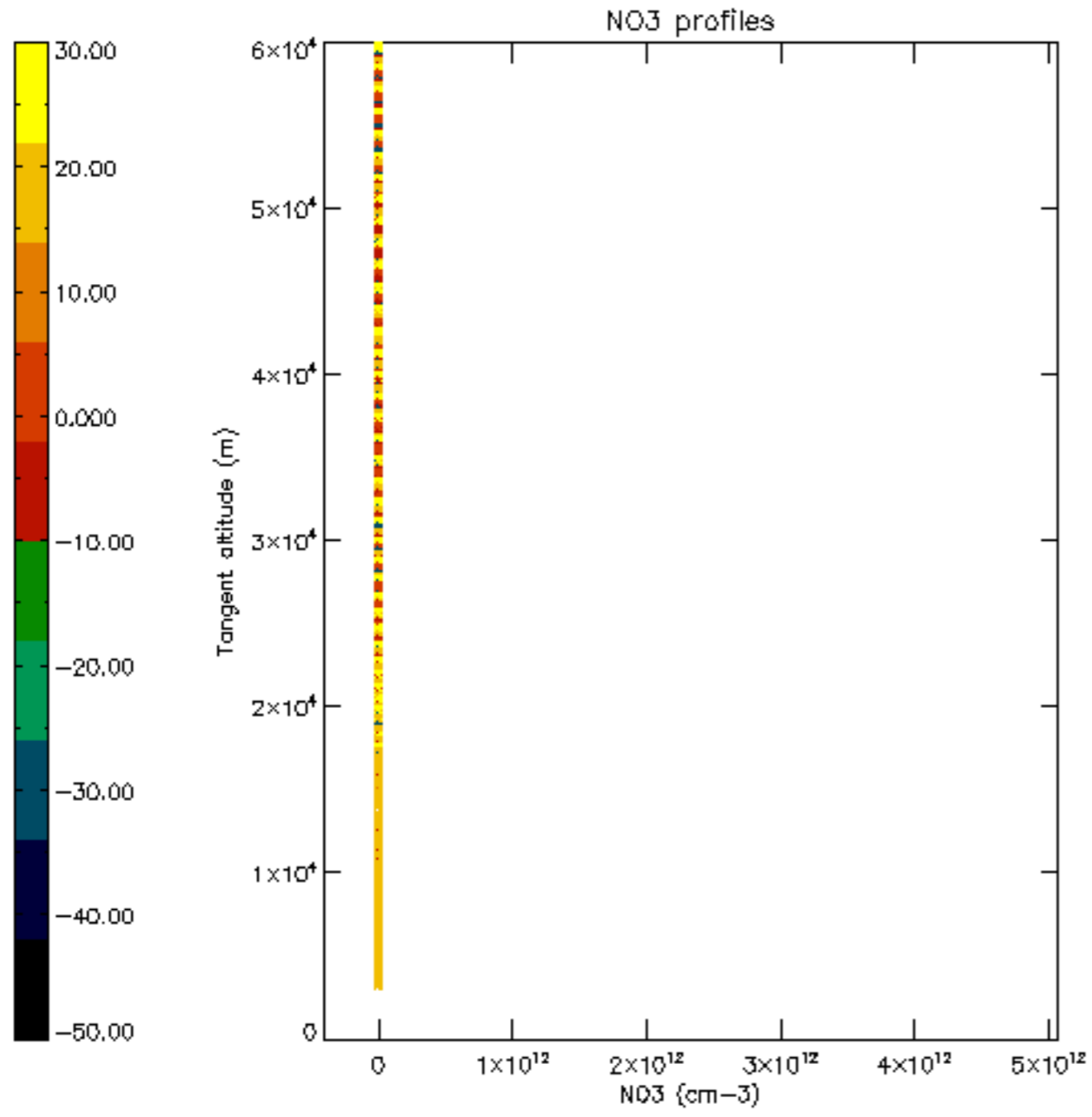


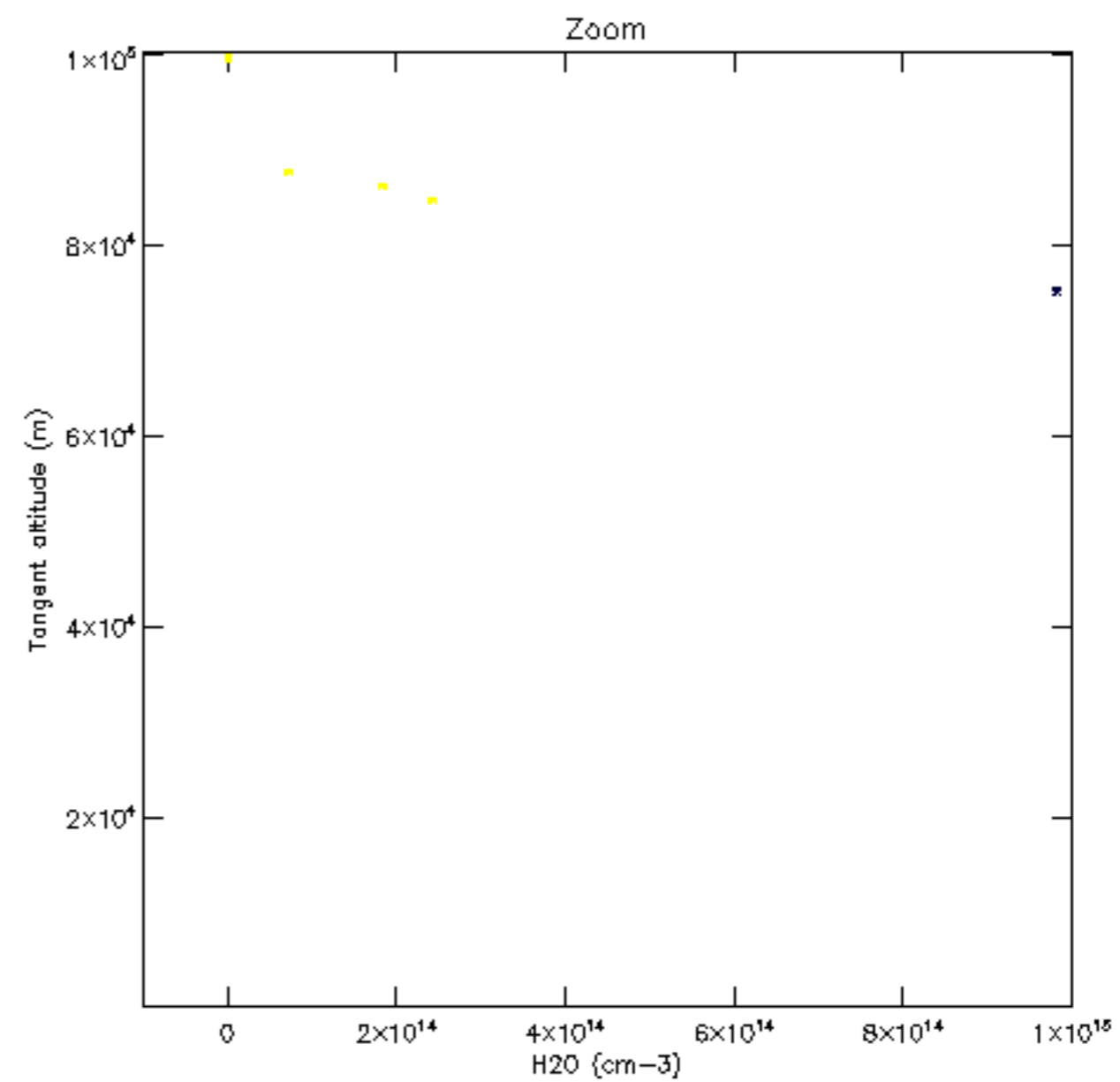
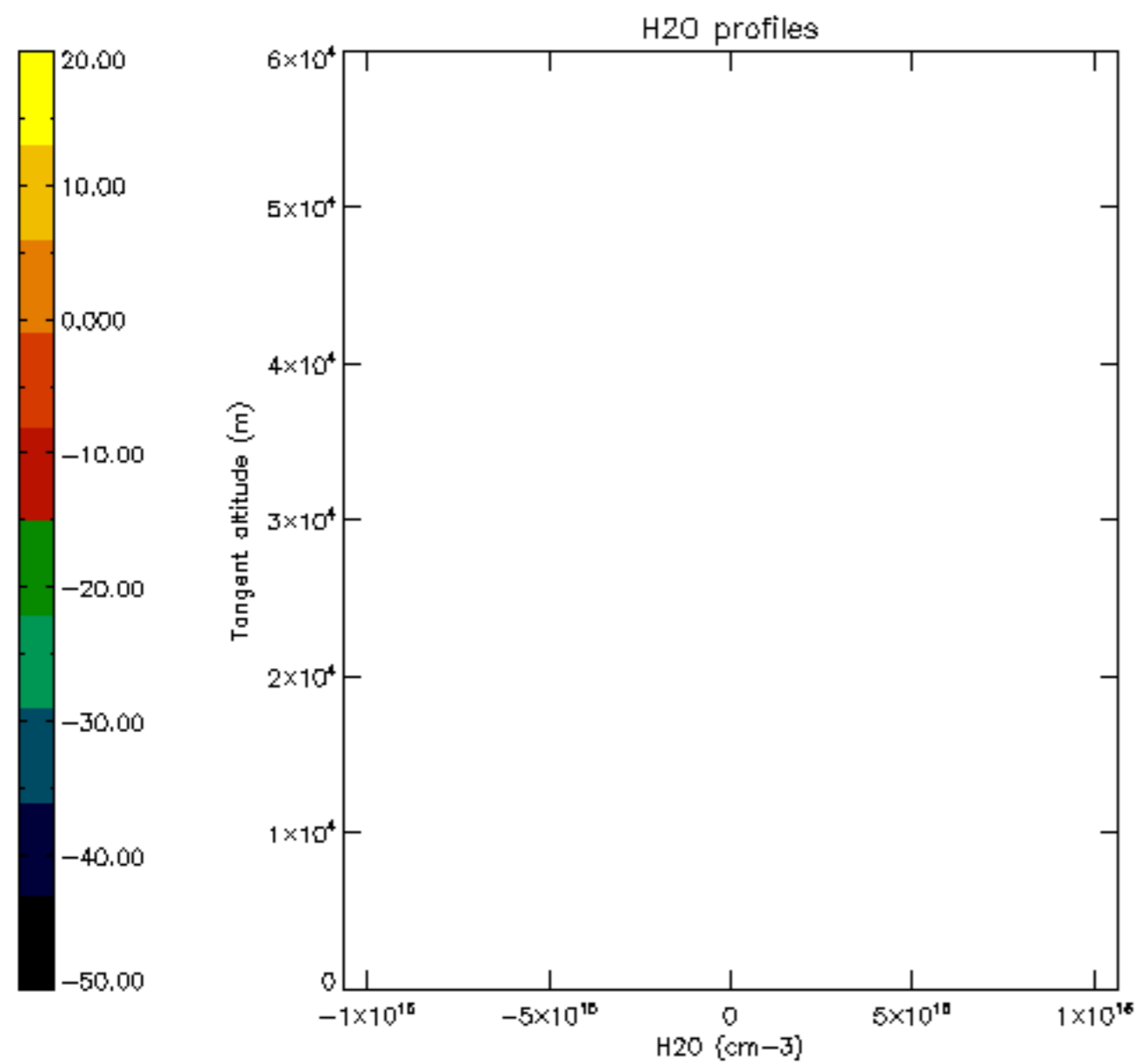


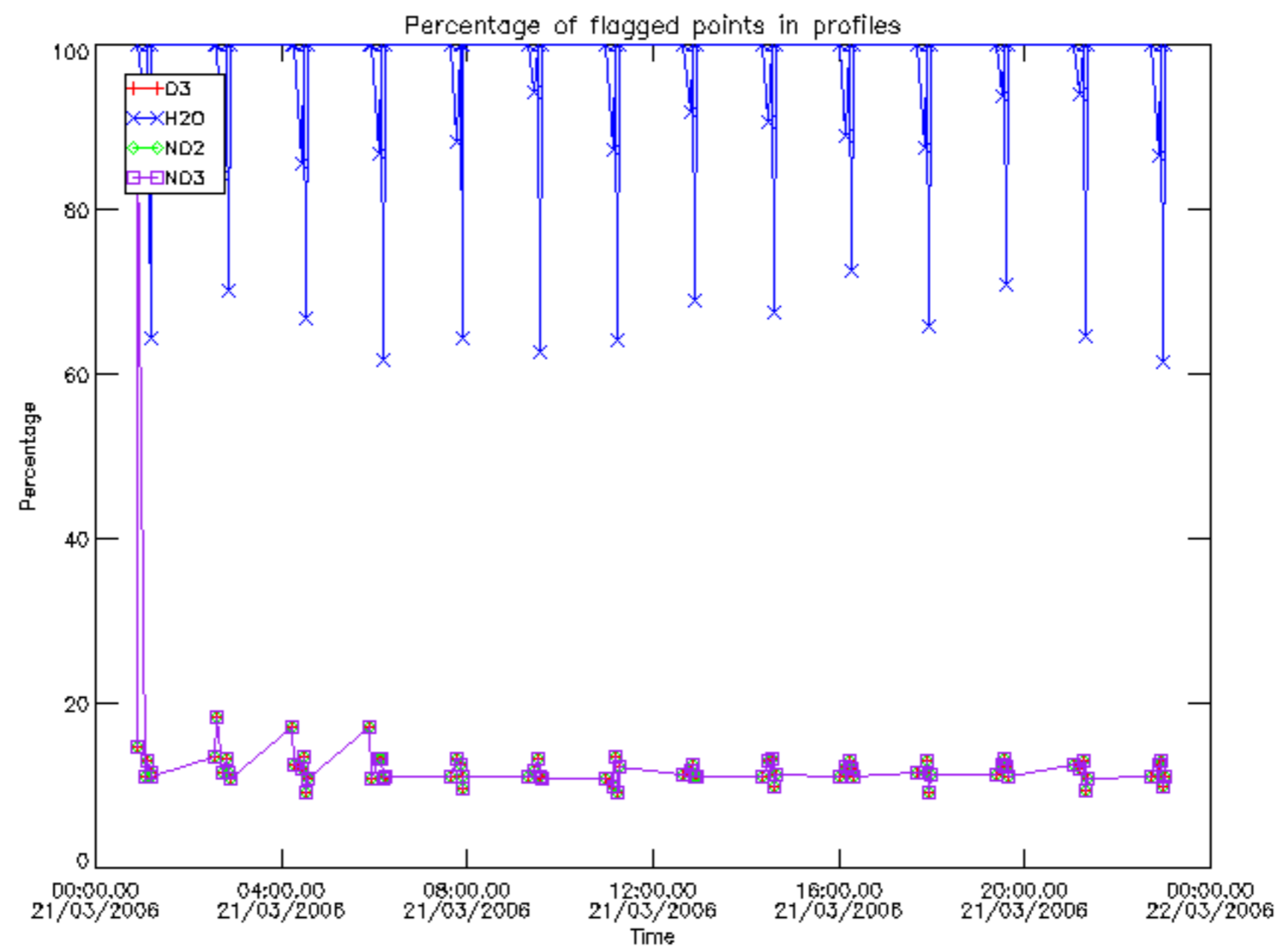




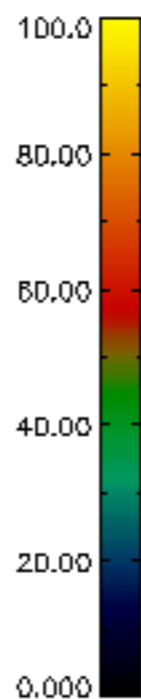
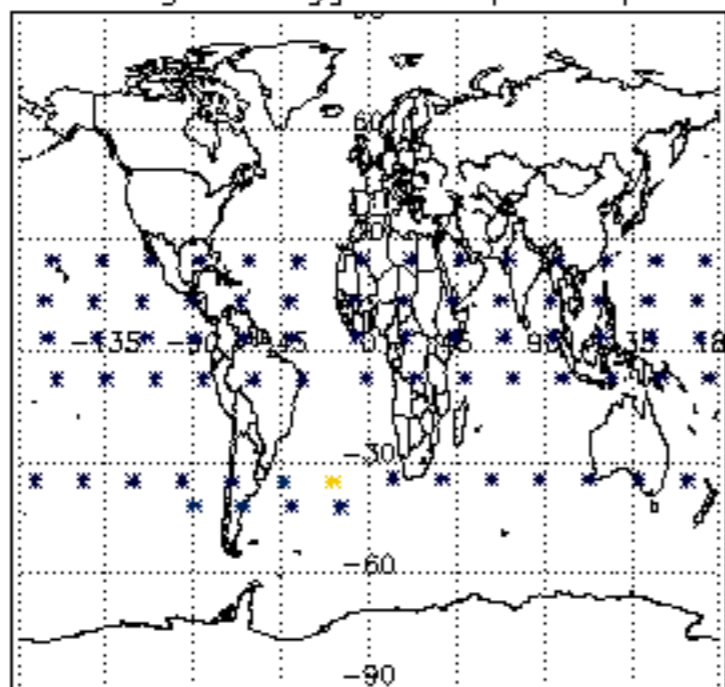




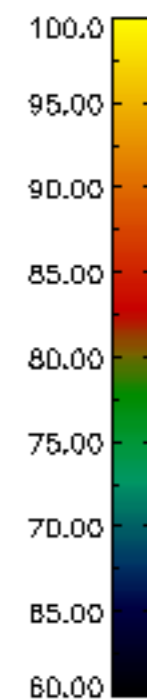
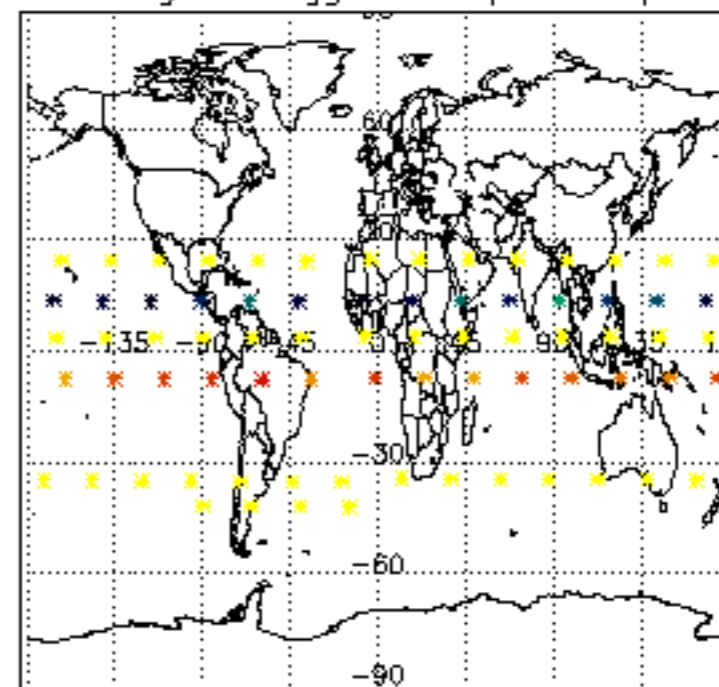




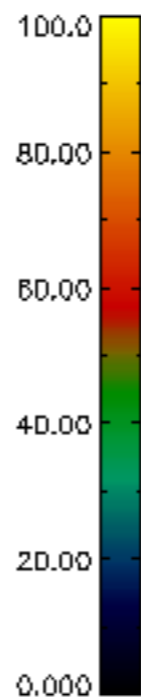
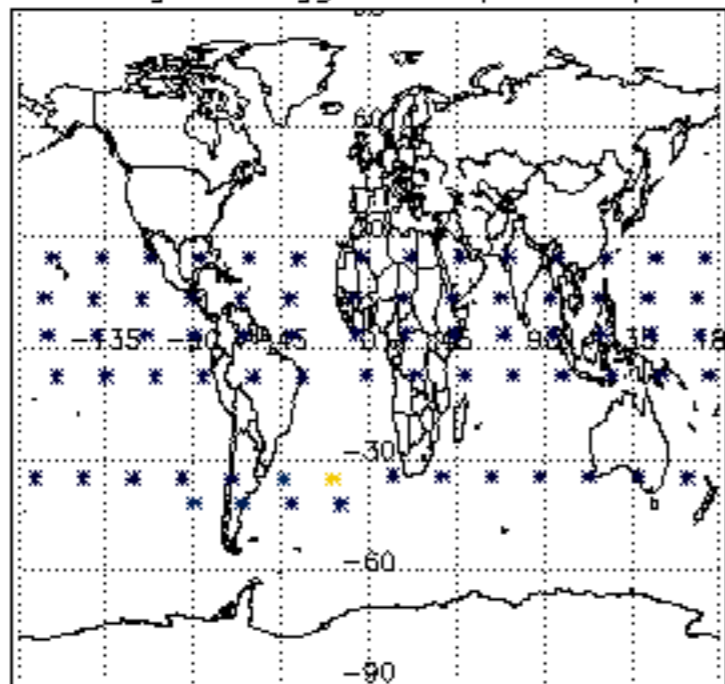
Percentage of flagged data per D3 profile



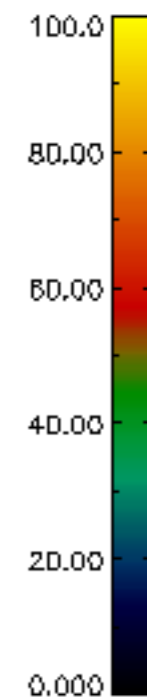
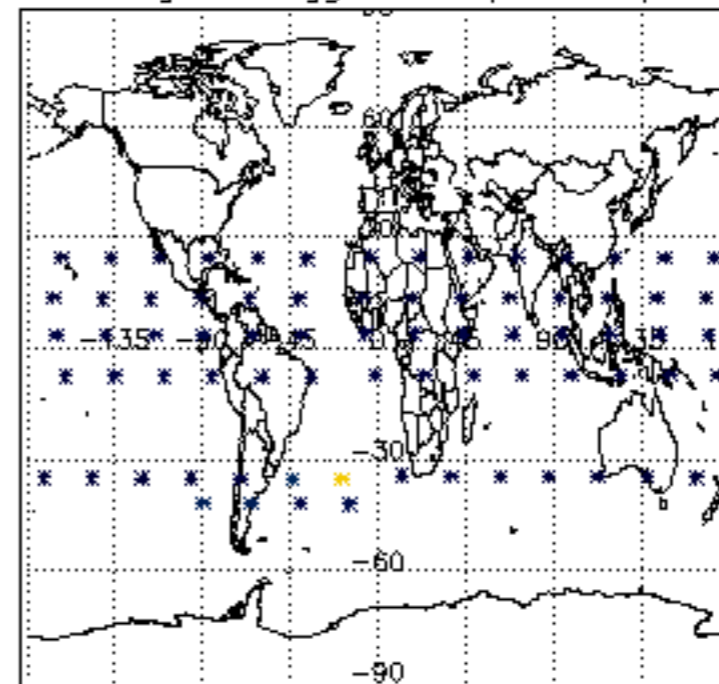
Percentage of flagged data per H2O profile

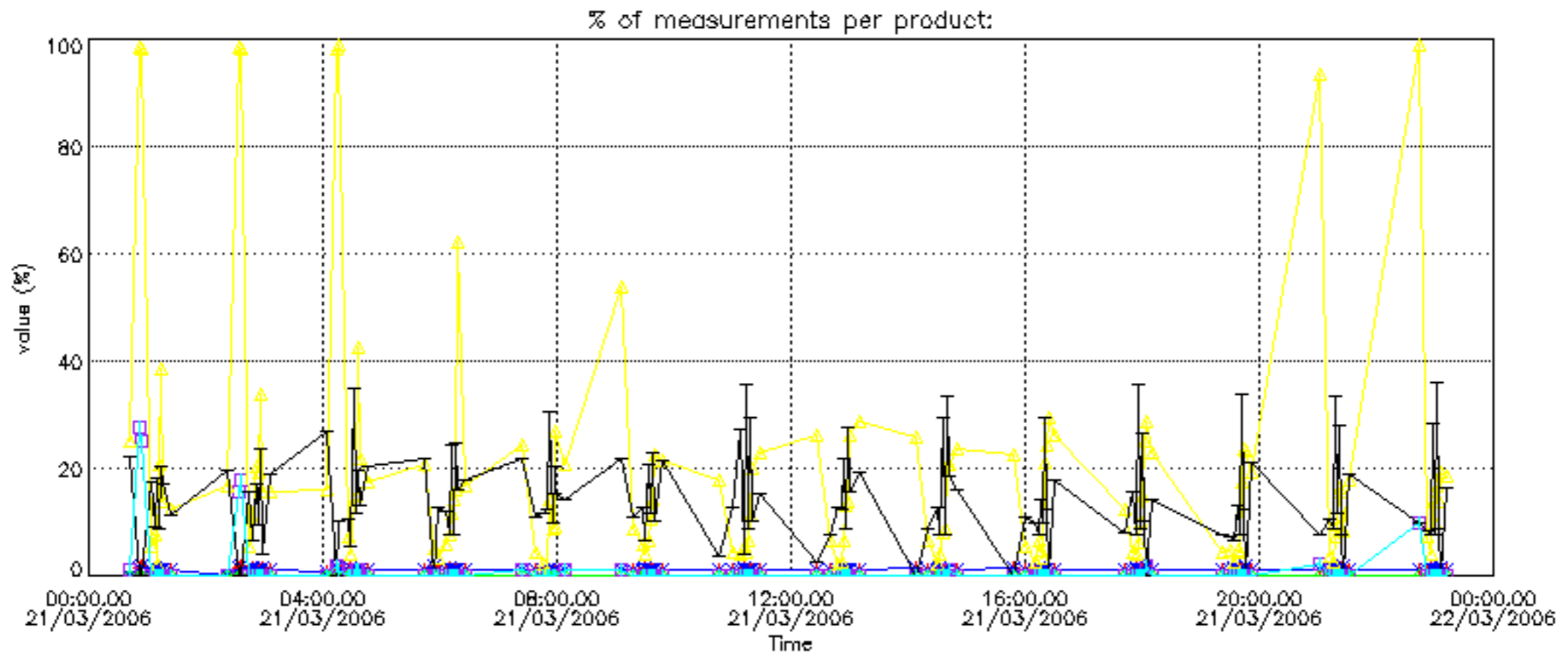


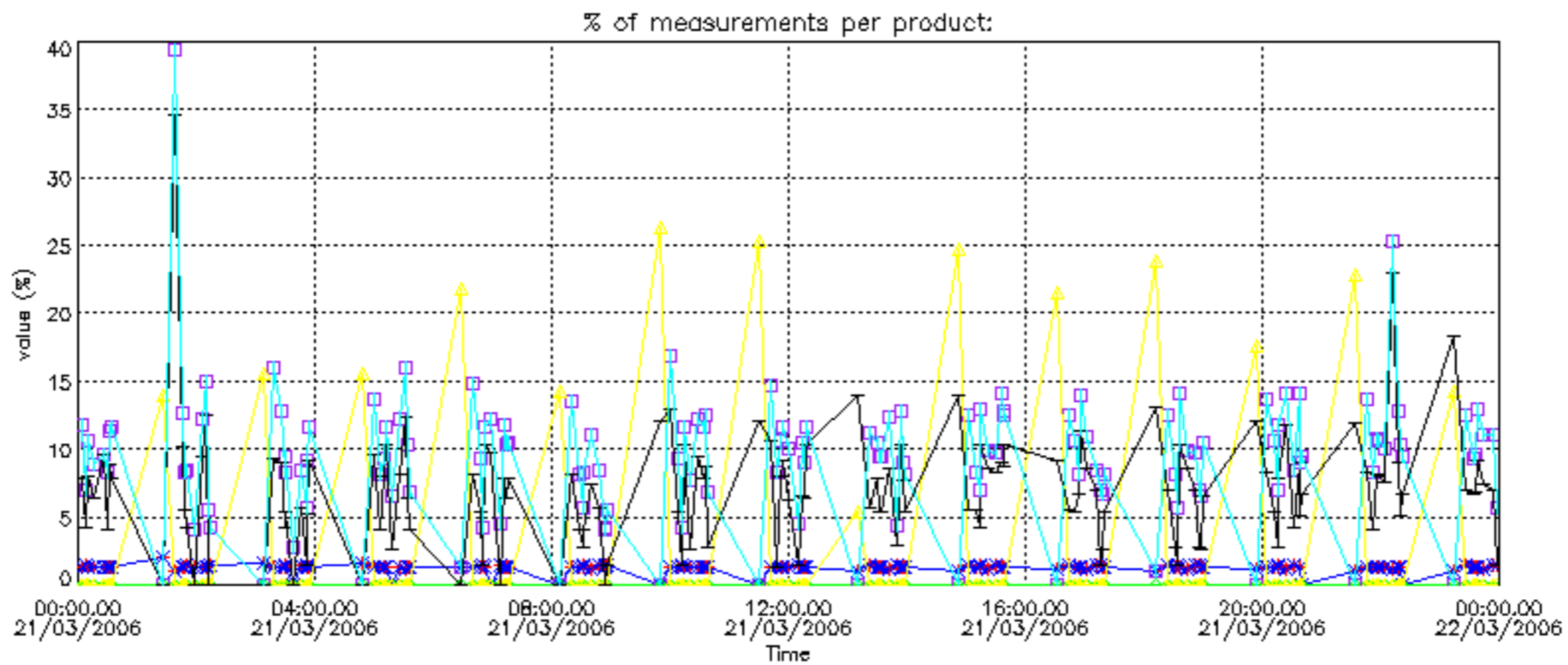
Percentage of flagged data per NO2 profile



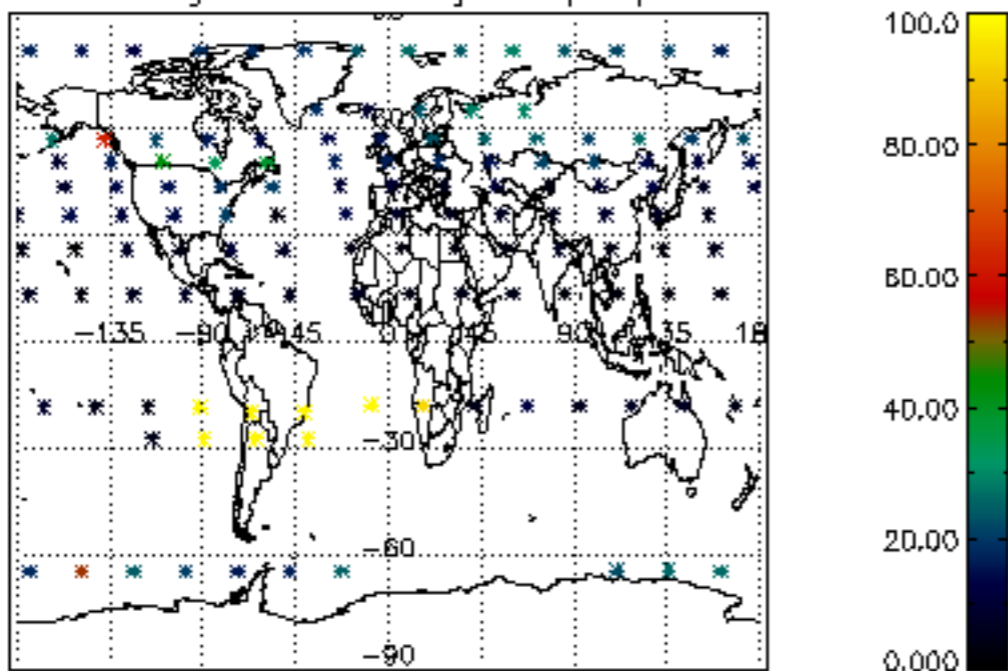
Percentage of flagged data per NO3 profile



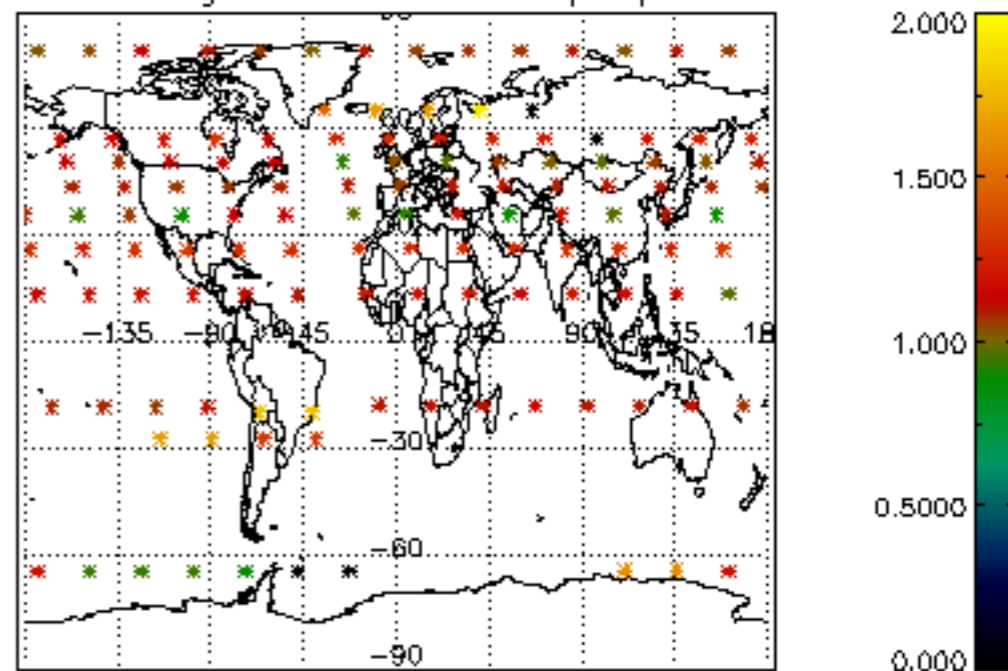




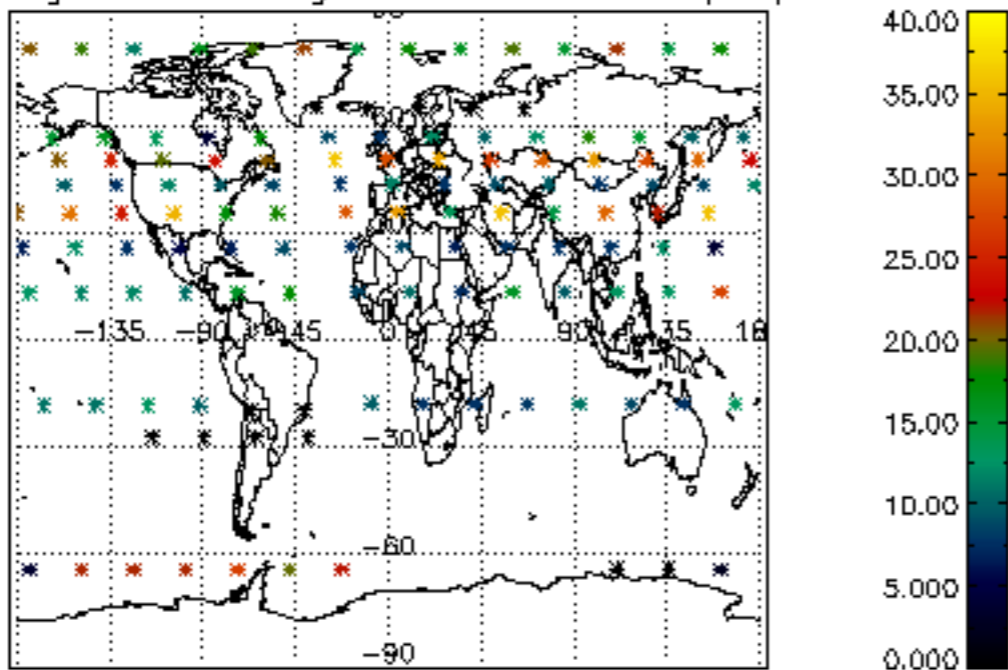
Percentage of cosmic ray hits per profile



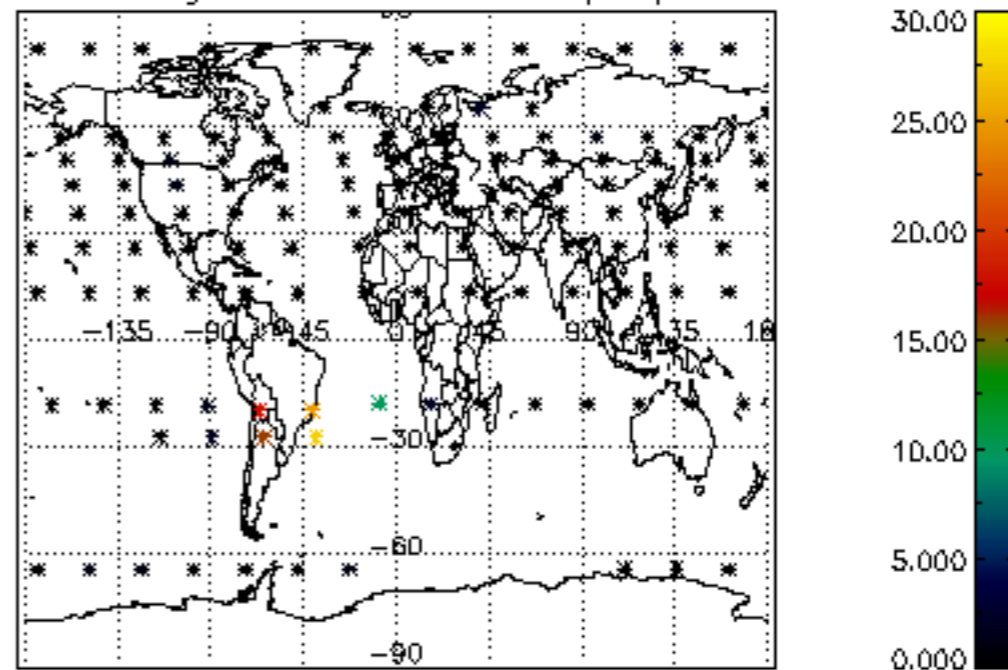
Percentage of datation errors per profile



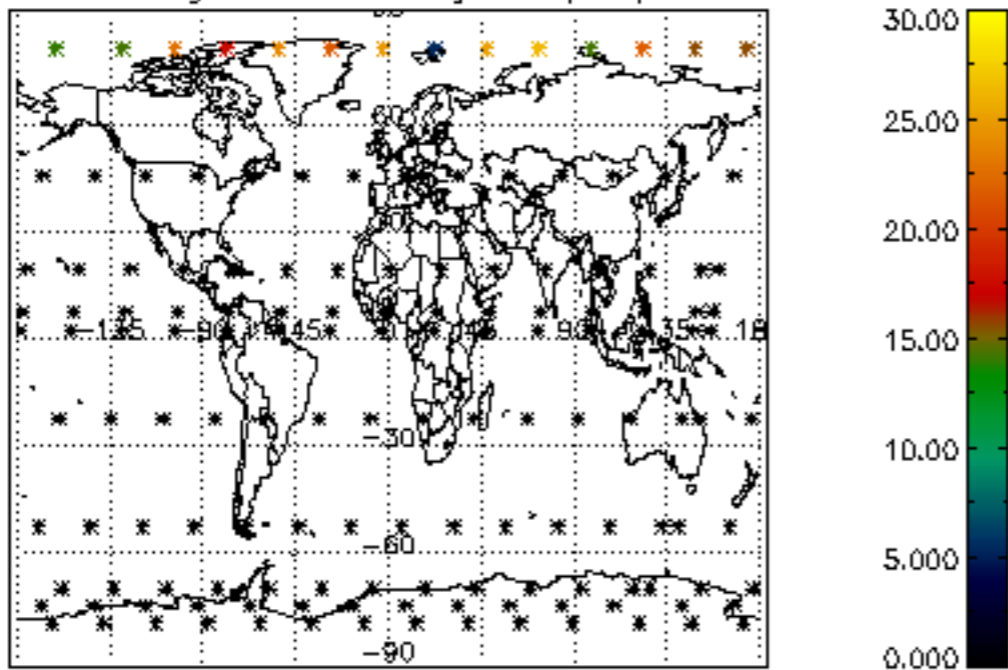
Percentage of star falling outside central band per profile



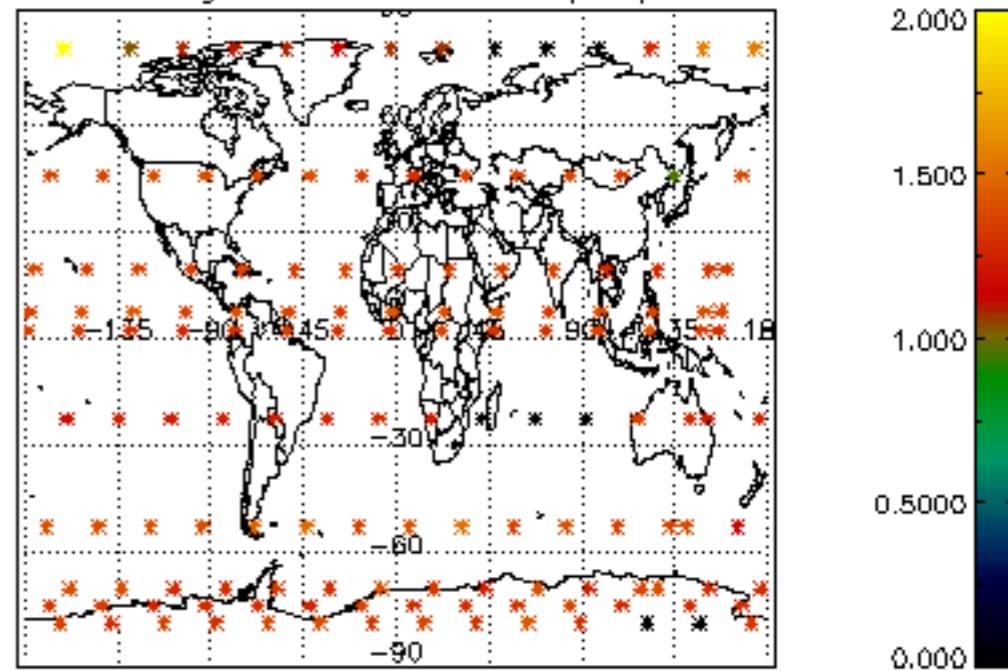
Percentage of saturation errors per profile



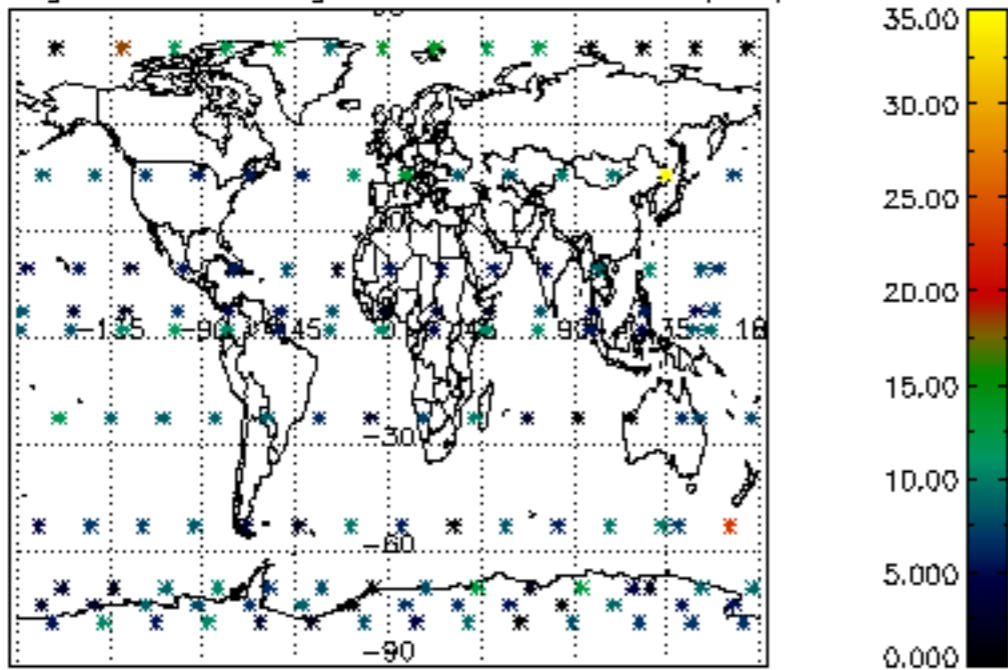
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

