

GOMOS Level 2 Daily Report

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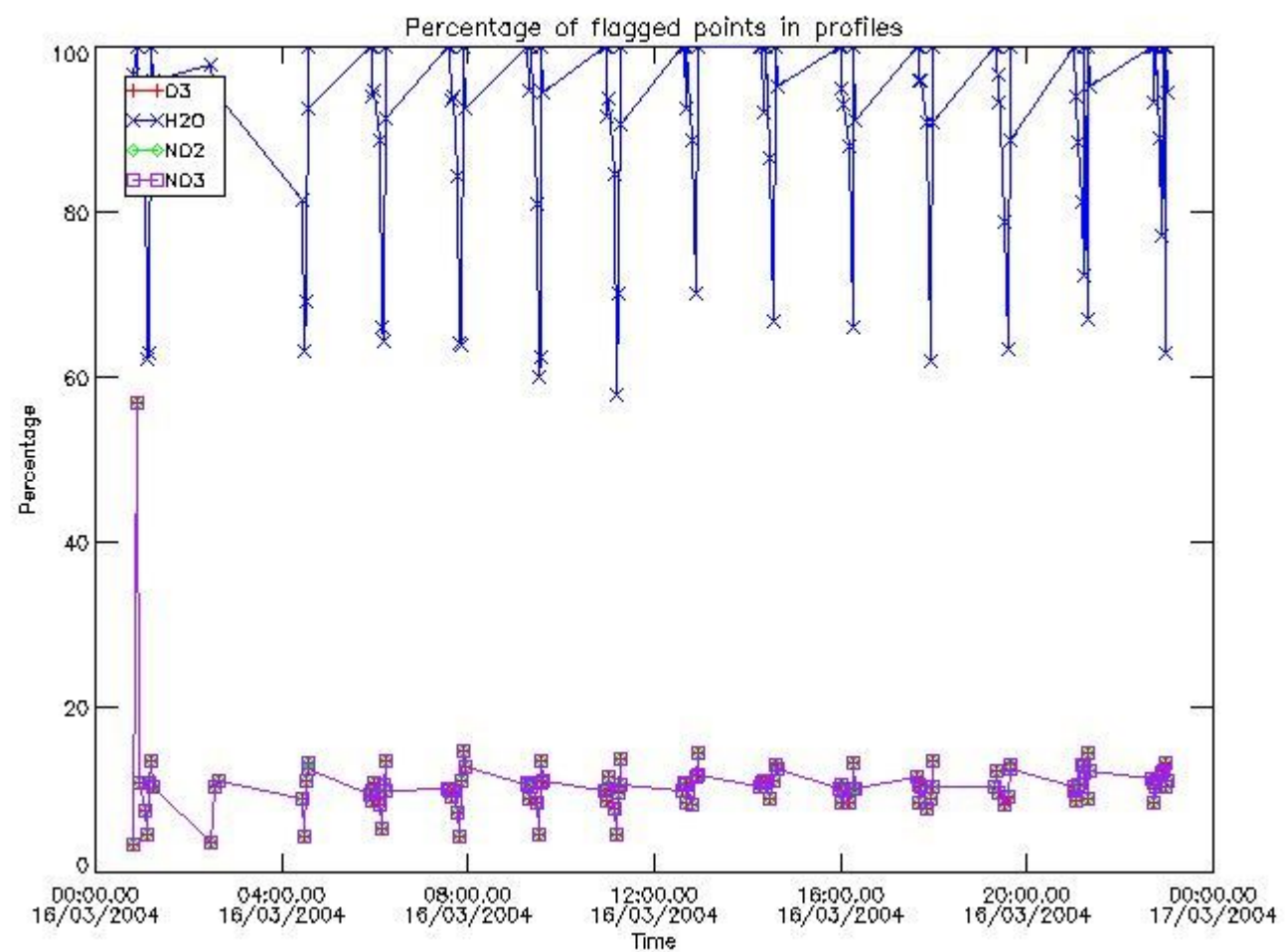
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397	GOM_NL__2PRFIN20040316_232339_000000412025_00116_10691_0595.N1	16-MAR-2004 23:23:39	Bright	41.000	22	32Alp Leo	1.3600	15200.	82	10691	No
398	GOM_NL__2PRFIN20040316_232555_000000402025_00116_10691_0596.N1	16-MAR-2004 23:25:55	Bright	40.000	51	41Gam1Leo	2.0100	4500.0	80	10691	No
399	GOM_NL__2PRFIN20040316_233336_000000422025_00116_10691_0597.N1	16-MAR-2004 23:33:36	Bright	41.500	174	52Psi UMa	3.0040	4400.0	83	10691	No
400	GOM_NL__2PRFIN20040316_233648_000000412025_00116_10691_0598.N1	16-MAR-2004 23:36:48	Bright	40.500	82	48Bet UMa	2.3650	10600.	81	10691	No
401	GOM_NL__2PRFIN20040316_233818_000000412025_00116_10691_0599.N1	16-MAR-2004 23:38:18	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	10691	No
402	GOM_NL__2PRFIN20040316_233945_000000482025_00116_10691_0600.N1	16-MAR-2004 23:39:45	Bright	48.000	32	77Eps UMa	1.7630	11000.	96	10691	No
403	GOM_NL__2PRFIN20040316_234135_000000552025_00116_10691_0601.N1	16-MAR-2004 23:41:35	Bright	54.500	39	85Eta UMa	1.8540	24000.	109	10691	No
404	GOM_NL__2PRFIN20040316_234521_000000412025_00116_10691_0602.N1	16-MAR-2004 23:45:21	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	10691	No
405	GOM_NL__2PRFIN20040316_234921_000000492025_00116_10691_0603.N1	16-MAR-2004 23:49:21	Bright	49.000	119	14Eta Dra	2.7270	4700.0	98	10691	No
406	GOM_NL__2PRFIN20040316_235236_000000412025_00116_10691_0604.N1	16-MAR-2004 23:52:36	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	10691	No
407	GOM_NL__2PRFIN20040316_235421_000000552025_00116_10691_0605.N1	16-MAR-2004 23:54:21	Bright	54.500	130	23Bet Dra	2.7990	5800.0	109	10691	No
408	GOM_NL__2PRFIN20040316_235841_000000382025_00116_10691_0606.N1	16-MAR-2004 23:58:41	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	10691	No

3. Quality information per product

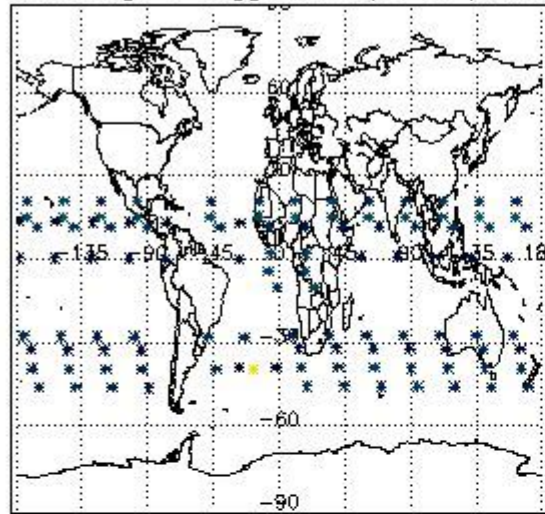
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

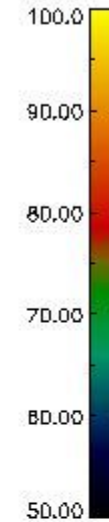
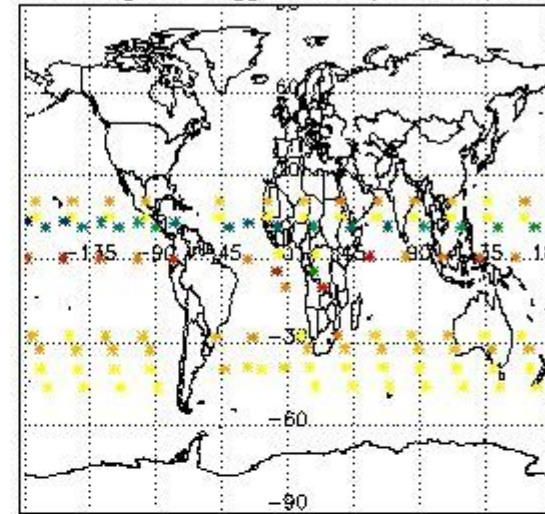


3.2 Plot quality information per product (world map)

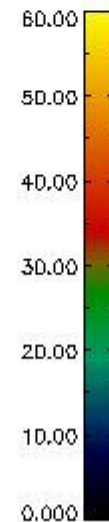
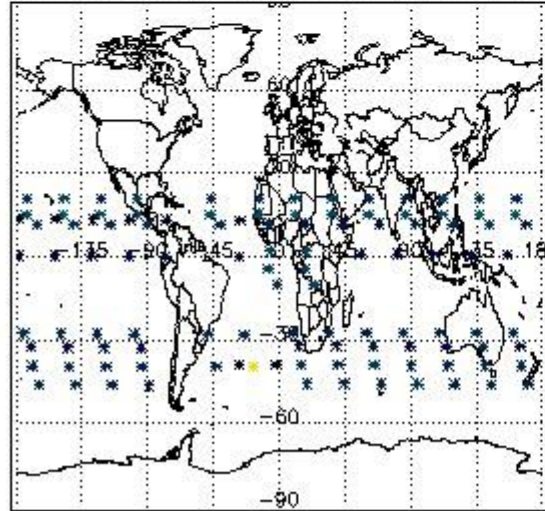
Percentage of flagged data per O3 profile



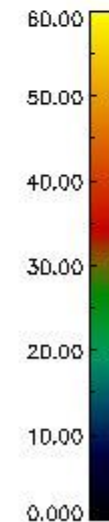
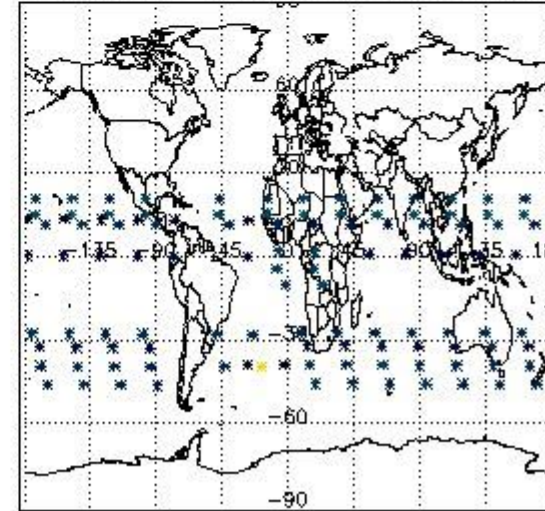
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

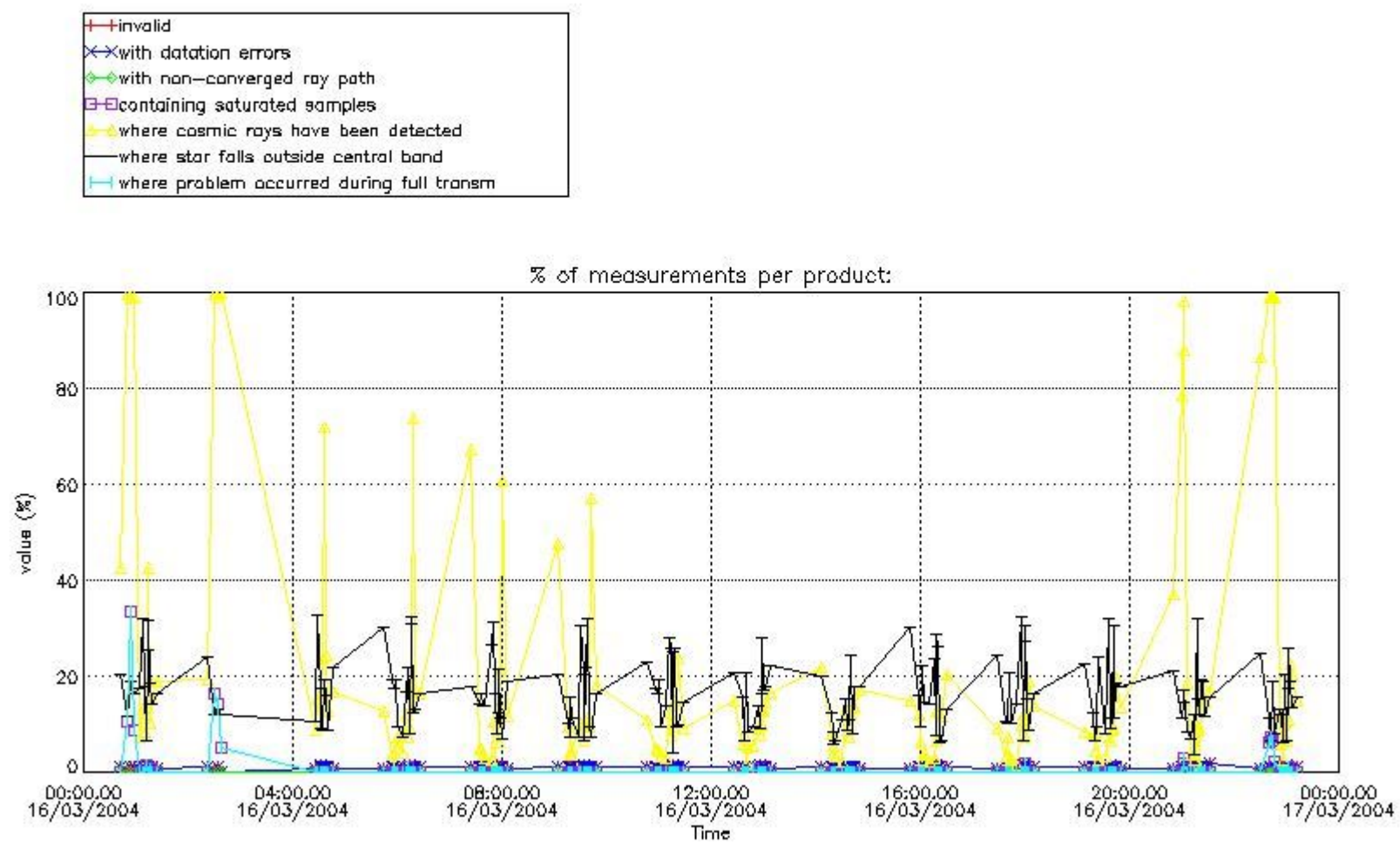


4. Level 1 quality information per product

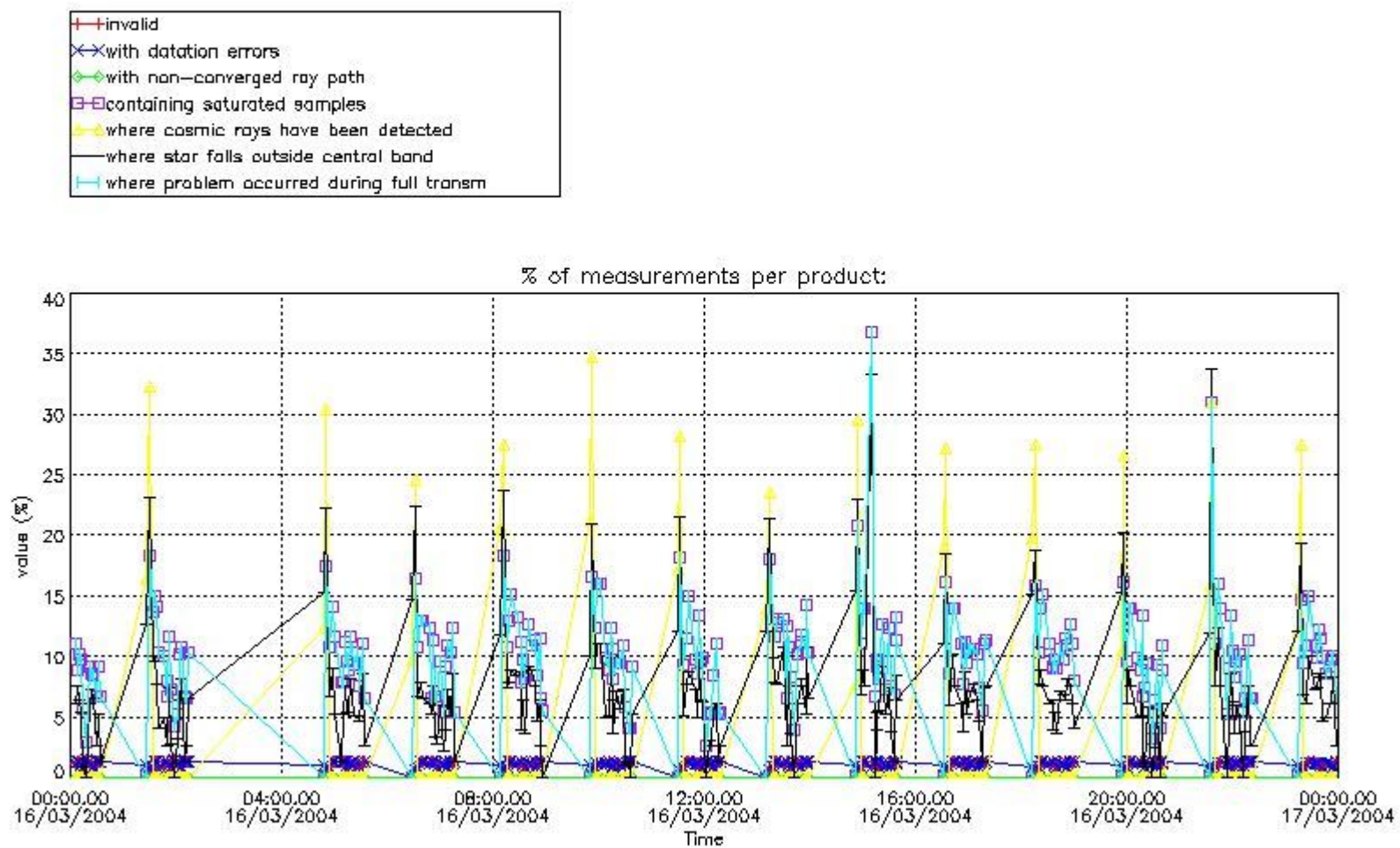
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



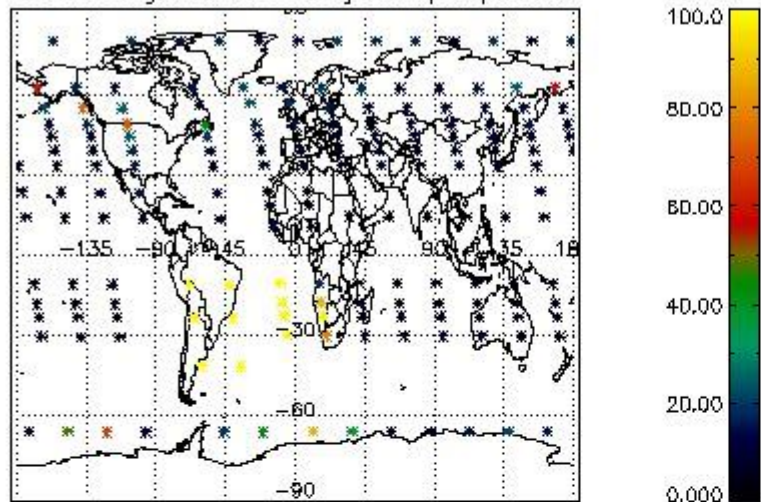
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



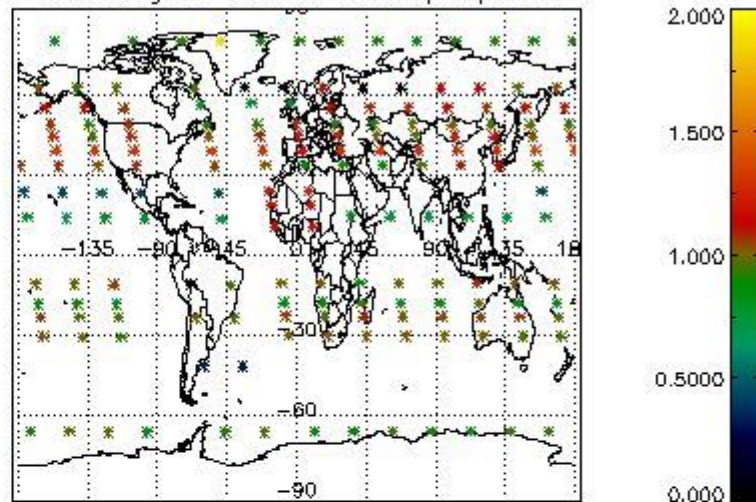
4.2 Plot quality information per product coming from level 1b processing (world map)

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

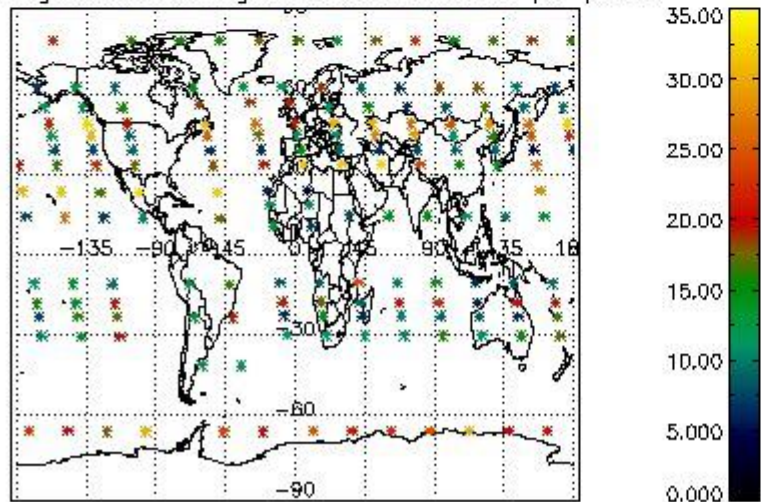
Percentage of cosmic ray hits per profile



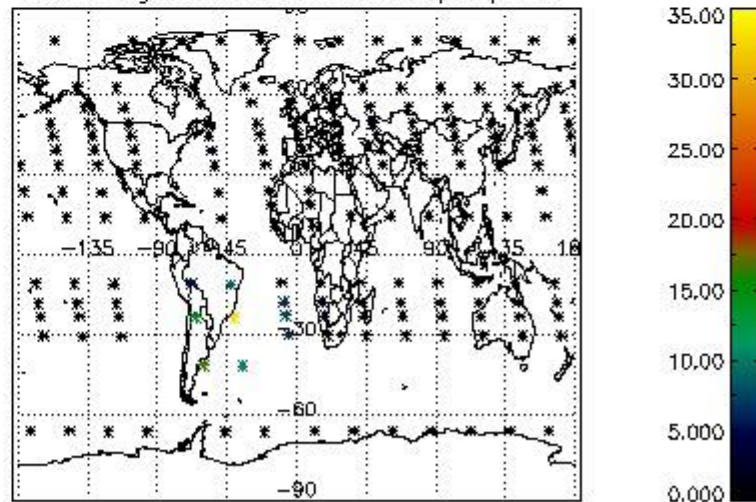
Percentage of datation errors per profile



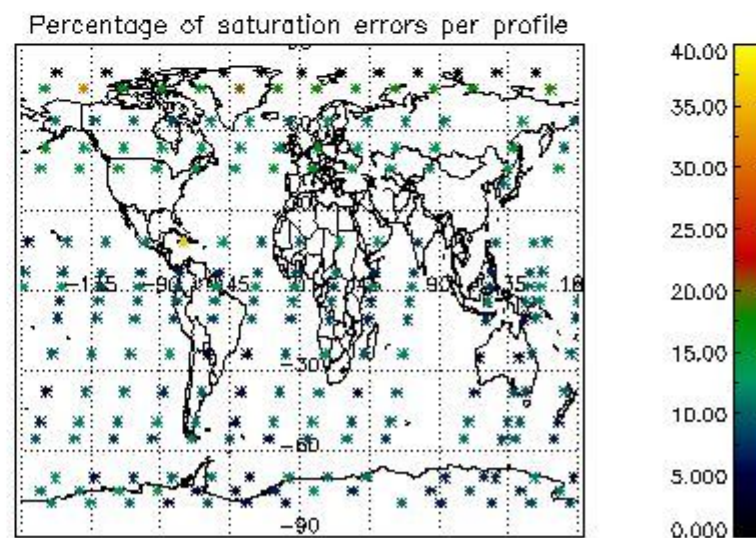
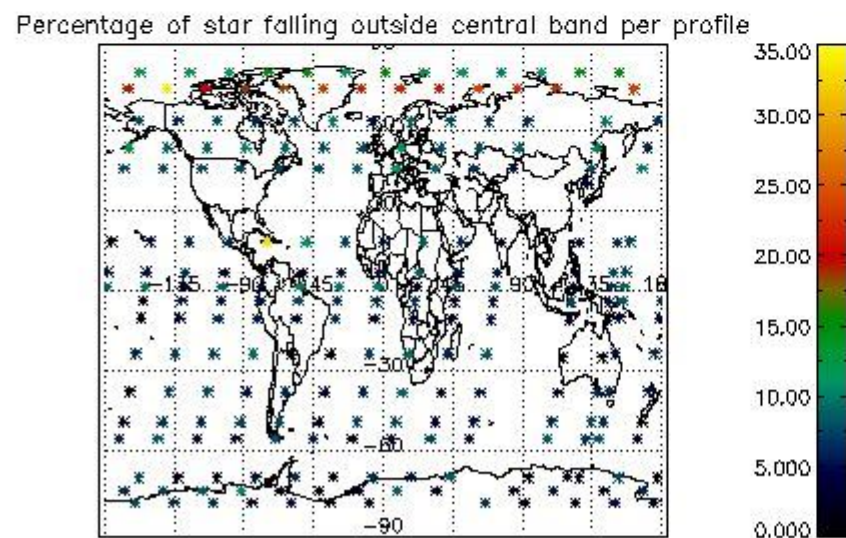
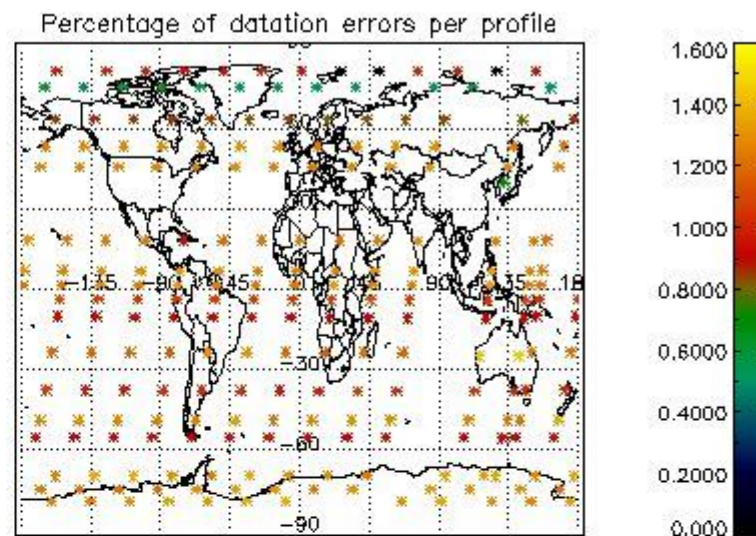
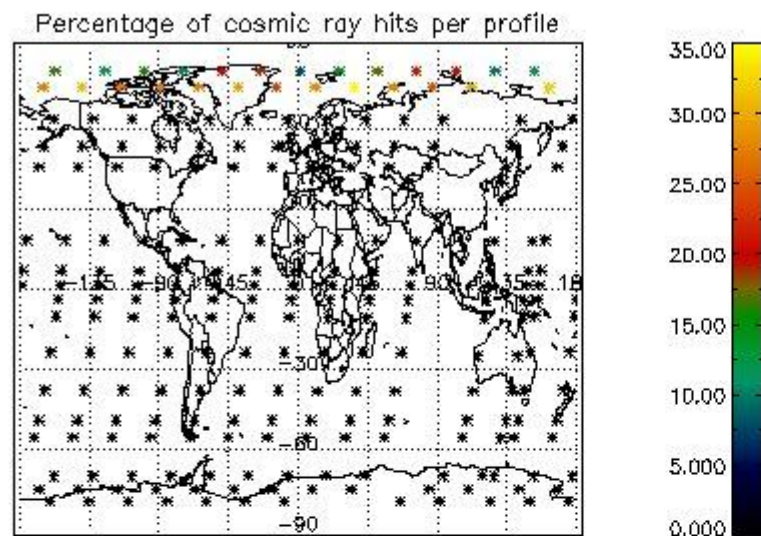
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

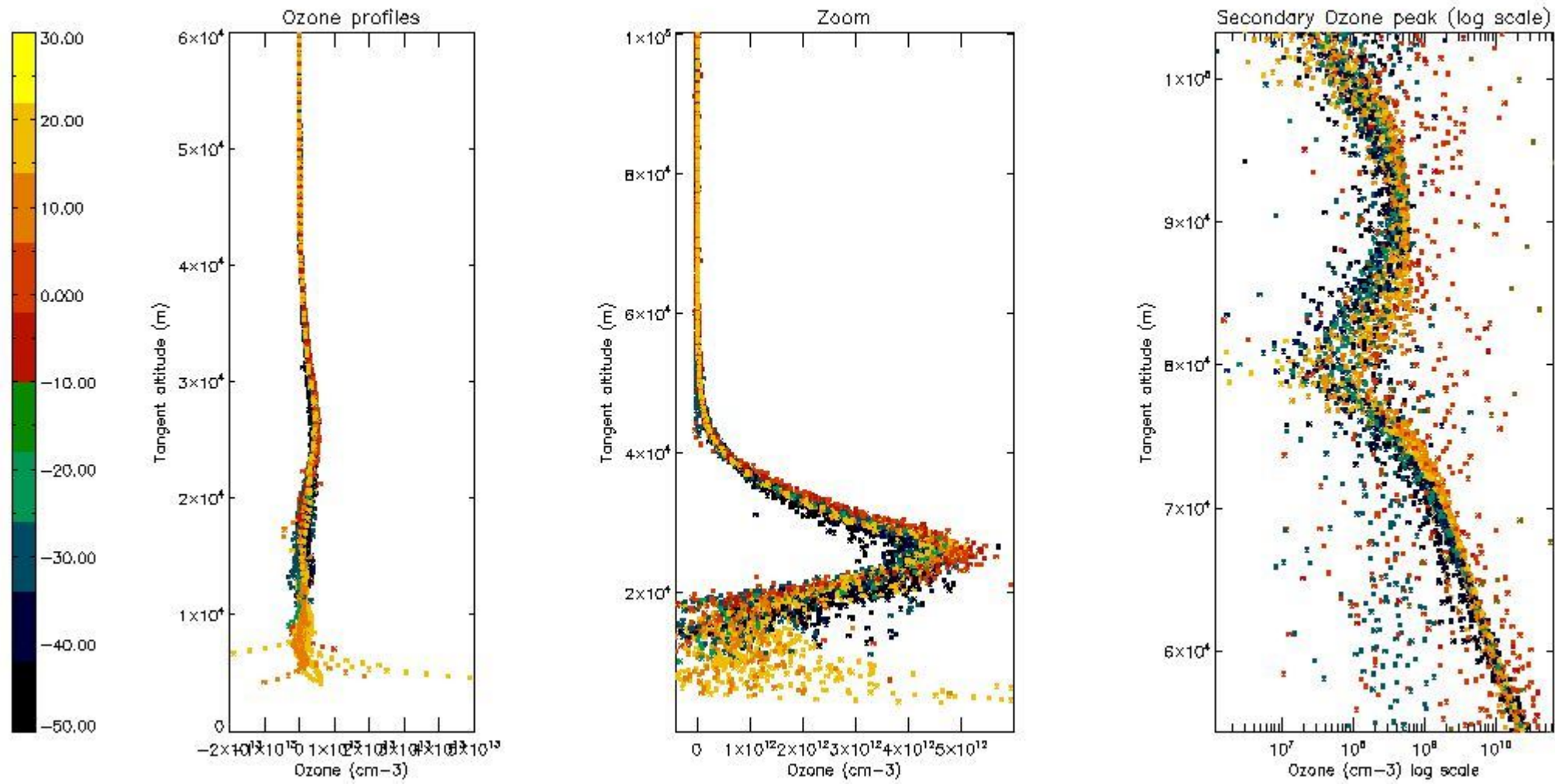
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	16

STD < 10	14
STD < 5	9

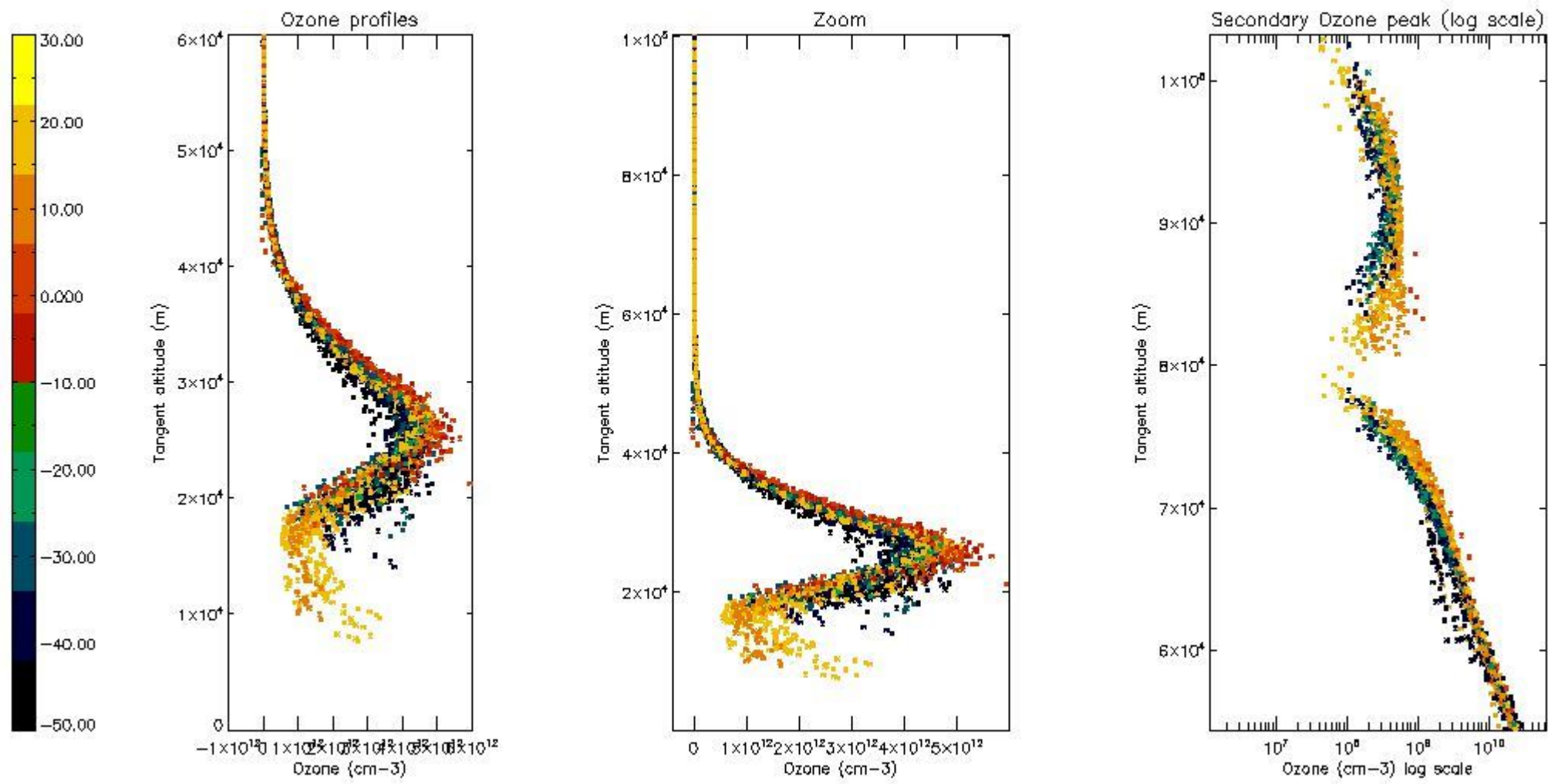
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



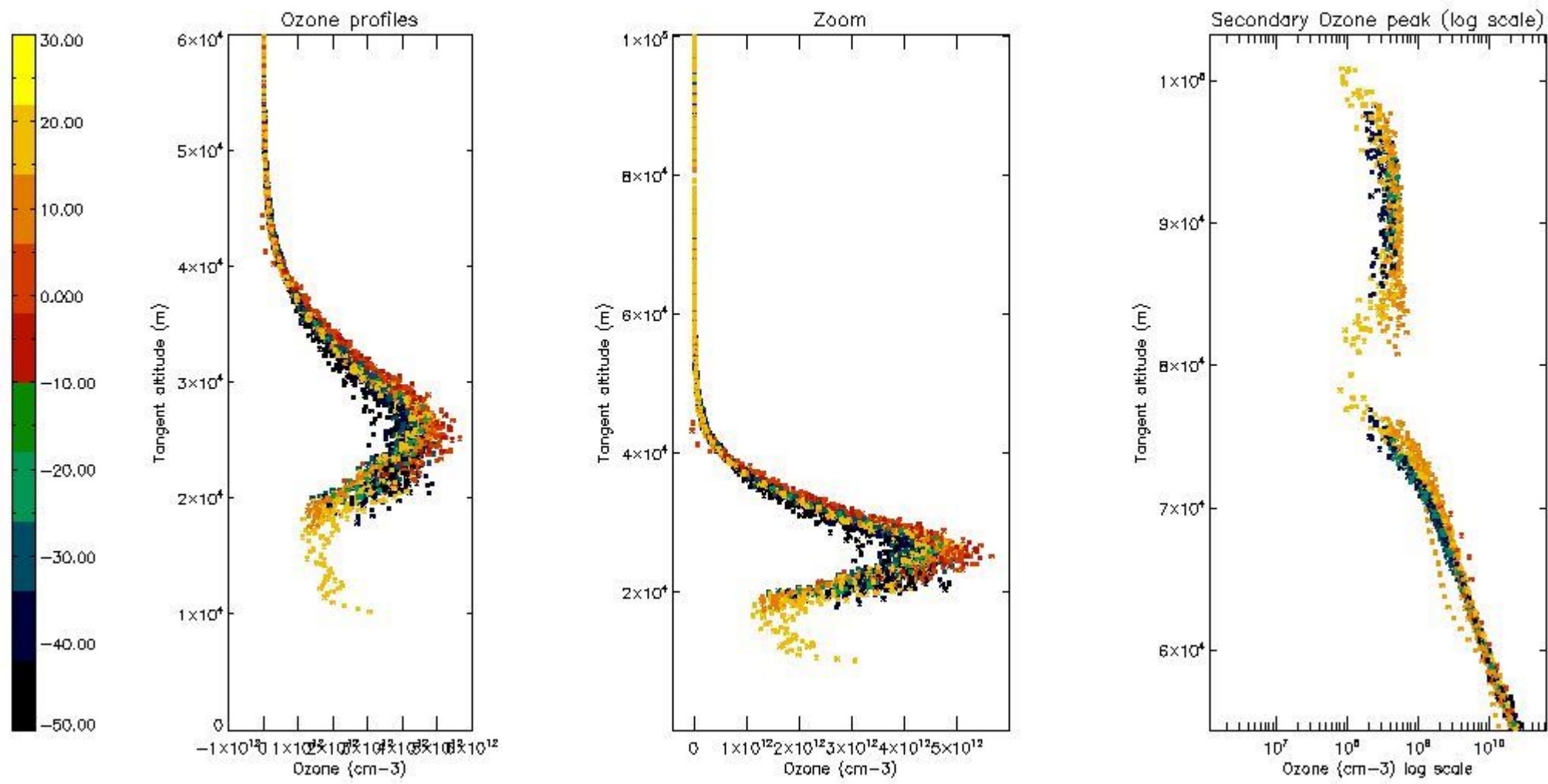
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



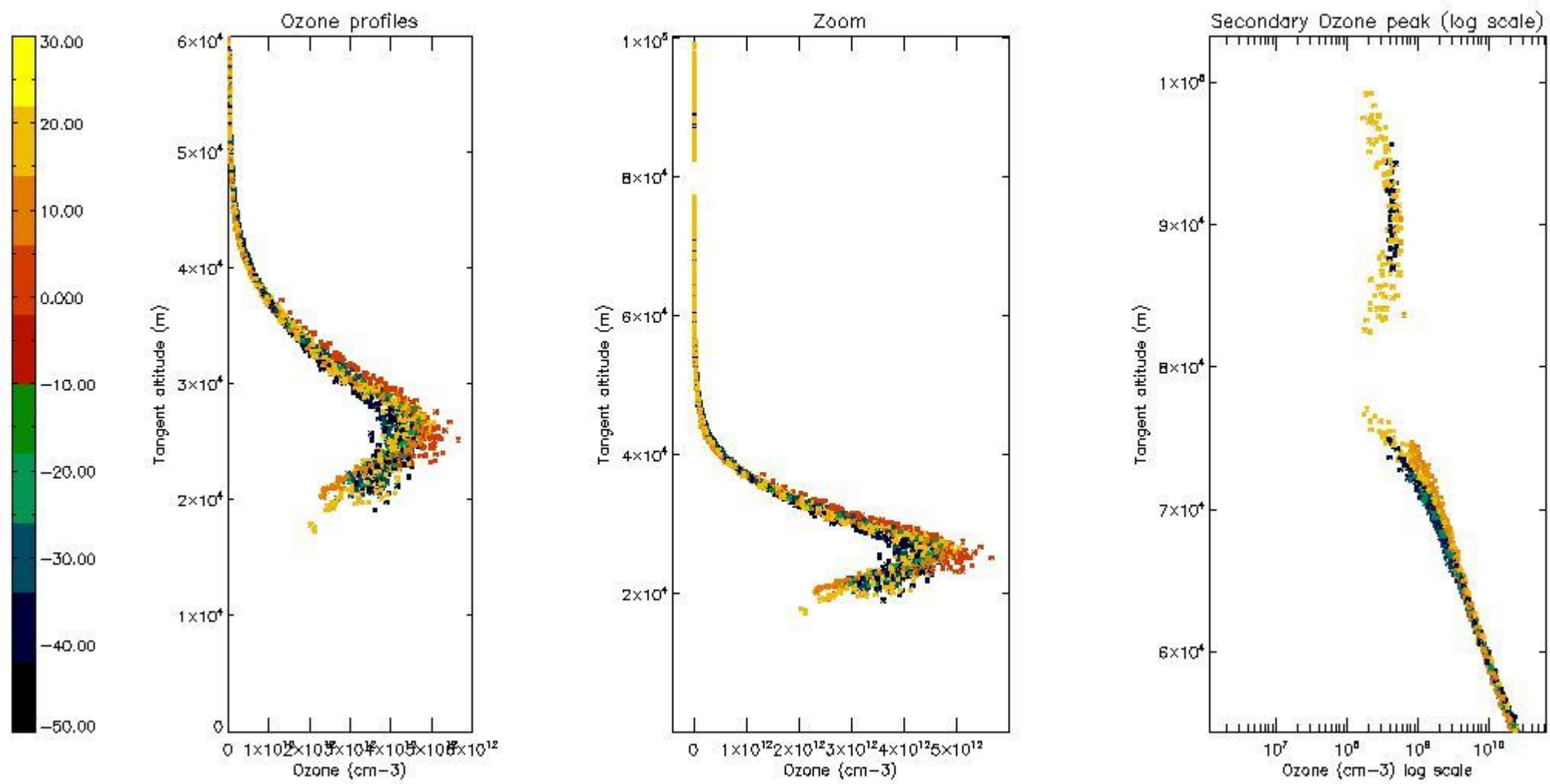
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



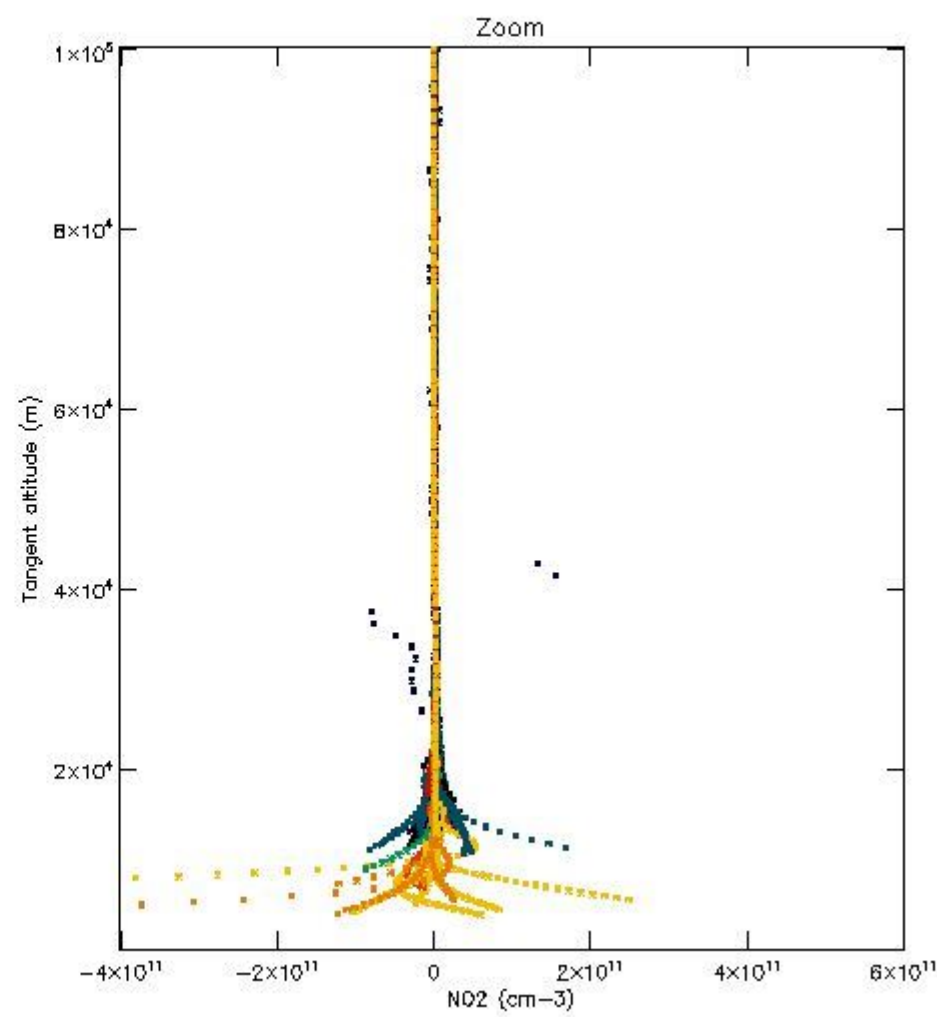
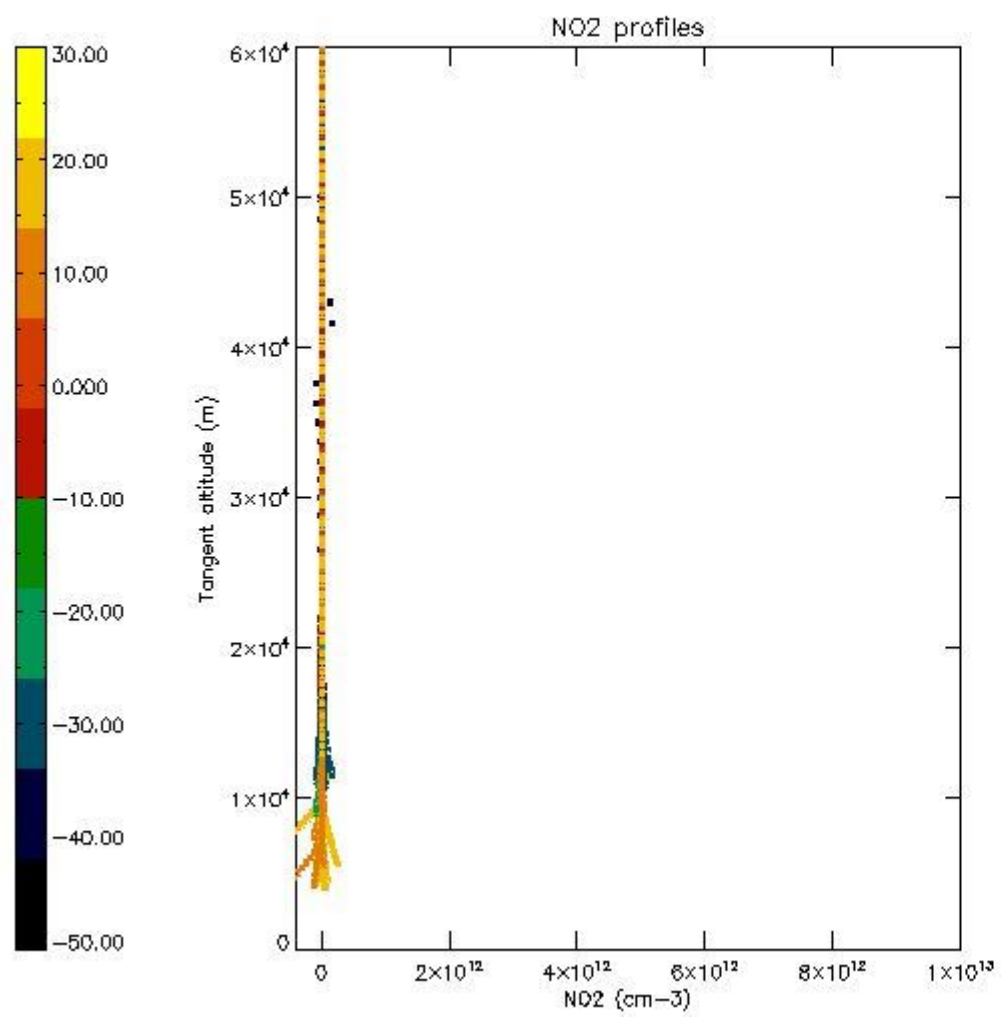
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



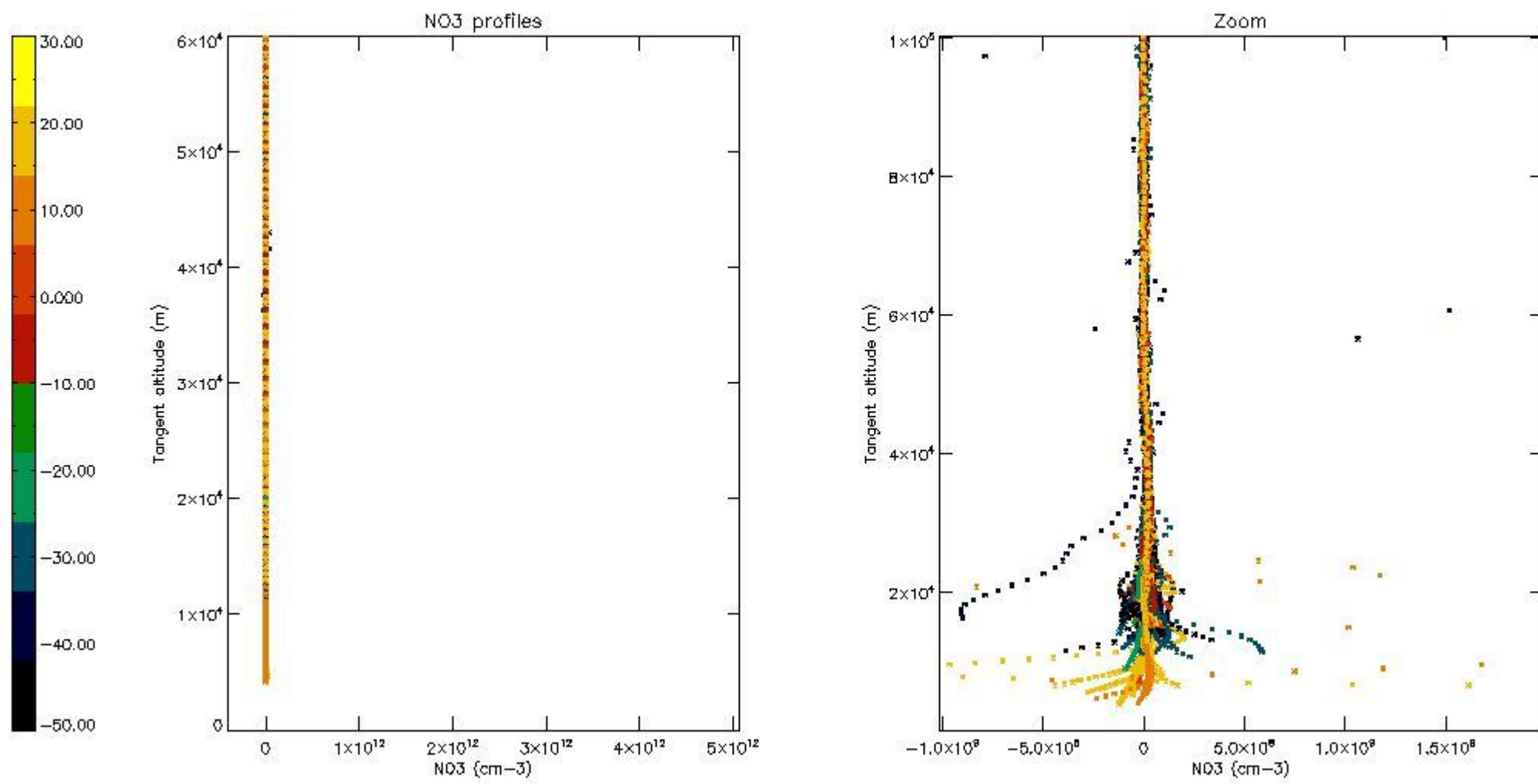
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



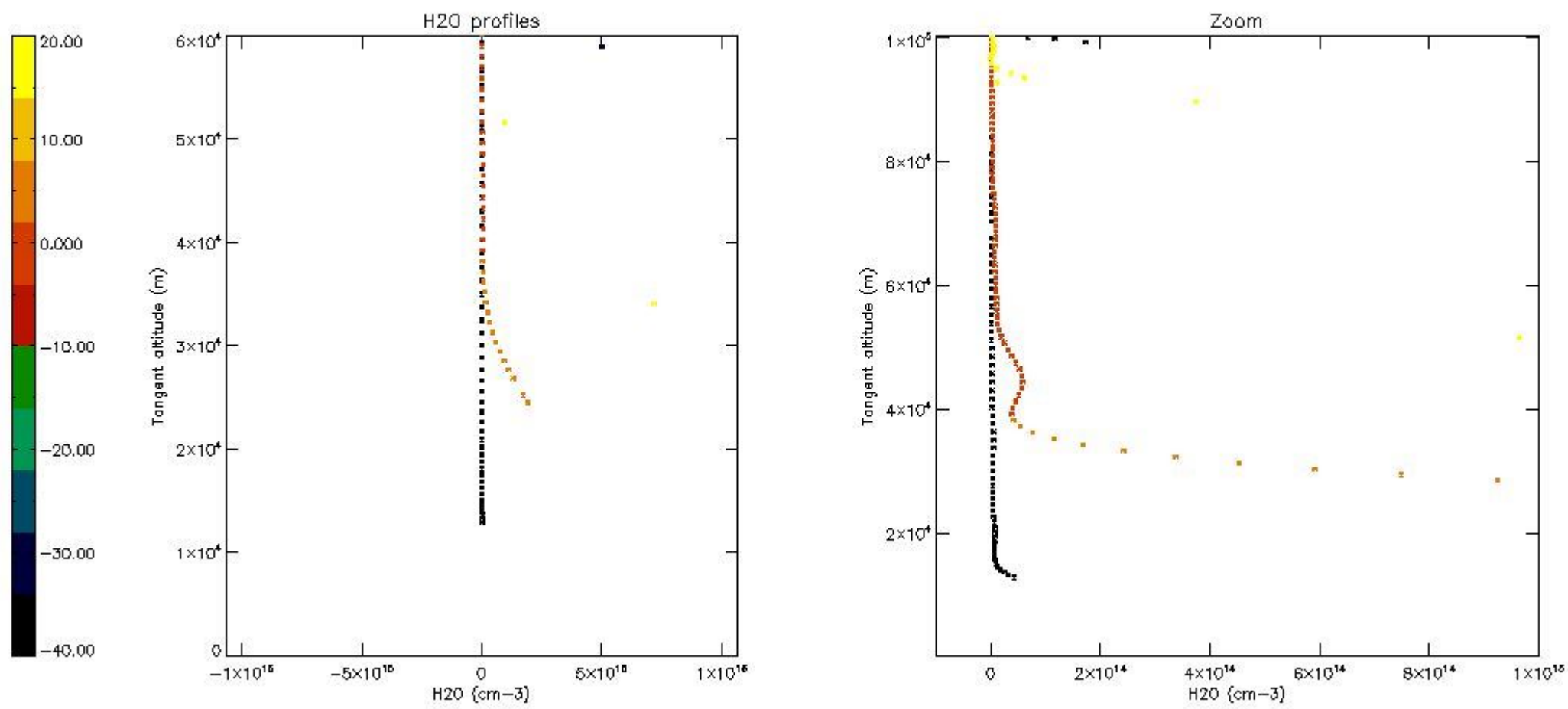
5.7 Plot NO3 profiles for all STD (dark without errors)

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	16-MAR-2004 00:05:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	16-MAR-2004 00:05:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	16-MAR-2004 00:05:18

GOMOS Level 2 Daily Report

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

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

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

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

[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	18APR2013 21:37:49
Data source version	GOMOS/6.01
Start time of products	16-03-2004 (16MAR2004 00:00:00)
Stop time of products	17-03-2004 (17MAR2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	408
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__2PRFIN20040316_000518_000000412025_00102_10677_0574.N1	16-MAR-2004 00:05:18	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	10677	No
2	GOM_NL__2PRFIN20040316_000829_000000402025_00102_10677_0575.N1	16-MAR-2004 00:08:29	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	10677	No
3	GOM_NL__2PRFIN20040316_000959_000000402025_00102_10677_0576.N1	16-MAR-2004 00:09:59	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	10677	No
4	GOM_NL__2PRFIN20040316_001133_000000462025_00102_10677_0577.N1	16-MAR-2004 00:11:33	Bright	46.000	32	77Eps UMa	1.7630	11000.	92	10677	No
5	GOM_NL__2PRFIN20040316_001327_000000532025_00102_10677_0578.N1	16-MAR-2004 00:13:27	Bright	53.000	39	85Eta UMa	1.8540	24000.	106	10677	No
6	GOM_NL__2PRFIN20040316_001723_000000352025_00102_10677_0579.N1	16-MAR-2004 00:17:23	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	10677	No
7	GOM_NL__2PRFIN20040316_002106_000000502025_00102_10677_0580.N1	16-MAR-2004 00:21:06	Bright	49.500	119	14Eta Dra	2.7270	4700.0	99	10677	No
8	GOM_NL__2PRFIN20040316_002408_000000412025_00102_10677_0581.N1	16-MAR-2004 00:24:08	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	10677	No
9	GOM_NL__2PRFIN20040316_002604_000000542025_00102_10677_0582.N1	16-MAR-2004 00:26:04	Bright	53.500	130	23Bet Dra	2.7990	5800.0	107	10677	No
10	GOM_NL__2PRFIN20040316_003017_000000382025_00102_10677_0583.N1	16-MAR-2004 00:30:17	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	10677	No
11	GOM_NL__2PRFIN20040316_003152_000000392025_00102_10677_0584.N1	16-MAR-2004 00:31:52	Bright	38.500	66	37Gam Cyg	2.2080	5900.0	77	10677	No
12	GOM_NL__2PRFIN20040316_003335_000000372025_00102_10677_0585.N1	16-MAR-2004 00:33:35	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	10677	No
13	GOM_NL__2PRFIN20040316_004156_000000522025_00102_10677_0586.N1	16-MAR-2004 00:41:56	Twilight	51.500	11	53Alp Aql	0.76500	8000.0	103	10677	No
14	GOM_NL__2PRFIN20040316_004902_000001532025_00102_10677_0587.N1	16-MAR-2004 00:49:02	Dark	153.000	59	55Alp Oph	2.0800	8900.0	306	10677	No
15	GOM_NL__2PRFIN20040316_005410_000000532025_00102_10677_0588.N1	16-MAR-2004 00:54:10	Dark	52.500	57	34Sig Sgr	2.0660	26000.	105	10677	No
16	GOM_NL__2PRFIN20040316_005739_000000522025_00102_10677_0589.N1	16-MAR-2004 00:57:39	Dark	52.000	38	20Eps Sgr	1.8360	11000.	104	10677	No
17	GOM_NL__2PRFIN20040316_010434_000000692025_00103_10678_0559.N1	16-MAR-2004 01:04:34	Dark	69.000	75	26Eps Sco	2.2910	4250.0	138	10678	No
18	GOM_NL__2PRFIN20040316_010713_000001142025_00103_10678_0560.N1	16-MAR-2004 01:07:13	Dark	114.000	16	21Alp Sco	1.0200	3000.0	228	10678	No
19	GOM_NL__2PRFIN20040316_011004_000000482025_00103_10678_0561.N1	16-MAR-2004 01:10:04	Dark	47.500	4	Alp1Cen	-0.010000	5800.0	95	10678	No
20	GOM_NL__2PRFIN20040316_011143_000000382025_00103_10678_0562.N1	16-MAR-2004 01:11:43	Dark	38.000	112	Alp Mus	2.6880	26000.	76	10678	No
21	GOM_NL__2PRFIN20040316_011312_000000492025_00103_10678_0563.N1	16-MAR-2004 01:13:12	Dark	49.000	12	Alp1Cru	0.77500	30000.	98	10678	No
22	GOM_NL__2PRFIN20040316_011428_000000542025_00103_10678_0564.N1	16-MAR-2004 01:14:28	Straylight	54.000	26	Gam Cru	1.6240	2900.0	108	10678	No
23	GOM_NL__2PRFIN20040316_011635_000000652025_00103_10678_0565.N1	16-MAR-2004 01:16:35	Straylight	65.000	54	5The Cen	2.0550	4500.0	130	10678	No
24	GOM_NL__2PRFIN20040316_011825_000000532025_00103_10678_0566.N1	16-MAR-2004 01:18:25	Straylight	53.000	123	lot Cen	2.7500	10200.	106	10678	No
25	GOM_NL__2PRFIN20040316_012412_000000562025_00103_10678_0567.N1	16-MAR-2004 01:24:12	Straylight	55.500	106	9Bet Crv	2.6480	5600.0	111	10678	No
26	GOM_NL__2PRFIN20040316_012631_000000522025_00103_10678_0568.N1	16-MAR-2004 01:26:31	Twilight	51.500	100	4Gam Crv	2.5800	13100.	103	10678	No
27	GOM_NL__2PRFIN20040316_012918_000000932025_00103_10678_0569.N1	16-MAR-2004 01:29:18	Bright	93.000	15	67Alp Vir	0.97600	28000.	186	10678	No
28	GOM_NL__2PRFIN20040316_013305_000000632025_00103_10678_0570.N1	16-MAR-2004 01:33:05	Bright	62.500	121	29Gam Vir	2.7400	7200.0	125	10678	No
29	GOM_NL__2PRFIN20040316_013554_000000402025_00103_10678_0571.N1	16-MAR-2004 01:35:54	Bright	40.000	22	32Alp Leo	1.3600	15200.	80	10678	No
30	GOM_NL__2PRFIN20040316_013809_000000392025_00103_10678_0572.N1	16-MAR-2004 01:38:09	Bright	39.000	51	41Gam1Leo	2.0100	4500.0	78	10678	No
31	GOM_NL__2PRFIN20040316_013946_000000732025_00103_10678_0573.N1	16-MAR-2004 01:39:46	Bright	73.000	138	47Eps Vir	2.8280	4700.0	146	10678	No
32	GOM_NL__2PRFIN20040316_014554_000000402025_00103_10678_0574.N1	16-MAR-2004 01:45:54	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	10678	No
33	GOM_NL__2PRFIN20040316_014905_000000382025_00103_10678_0575.N1	16-MAR-2004 01:49:05	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	10678	No
34	GOM_NL__2PRFIN20040316_015035_000000382025_00103_10678_0576.N1	16-MAR-2004 01:50:35	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	10678	No
35	GOM_NL__2PRFIN20040316_015208_000000482025_00103_10678_0577.N1	16-MAR-2004 01:52:08	Bright	47.500	32	77Eps UMa	1.7630	11000.	95	10678	No
36	GOM_NL__2PRFIN20040316_015402_000000552025_00103_10678_0578.N1	16-MAR-2004 01:54:02	Bright	54.500	39	85Eta UMa	1.8540	24000.	109	10678	No
37	GOM_NL__2PRFIN20040316_015800_000000352025_00103_10678_0579.N1	16-MAR-2004 01:58:00	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	10678	No
38	GOM_NL__2PRFIN20040316_020141_000000482025_00103_10678_0580.N1	16-MAR-2004 02:01:41	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	10678	No
39	GOM_NL__2PRFIN20040316_020446_000000402025_00103_10678_0581.N1	16-MAR-2004 02:04:46	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	10678	No
40	GOM_NL__2PRFIN20040316_020639_000000562025_00103_10678_0582.N1	16-MAR-2004 02:06:39	Bright	55.500	130	23Bet Dra	2.7990	5800.0	111	10678	No
41	GOM_NL__2PRFIN20040316_021053_000000372025_00103_10678_0583.N1	16-MAR-2004 02:10:53	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	10678	No
42	GOM_NL__2PRFIN20040316_021228_000000382025_00103_10678_0584.N1	16-MAR-2004 02:12:28	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	10678	No

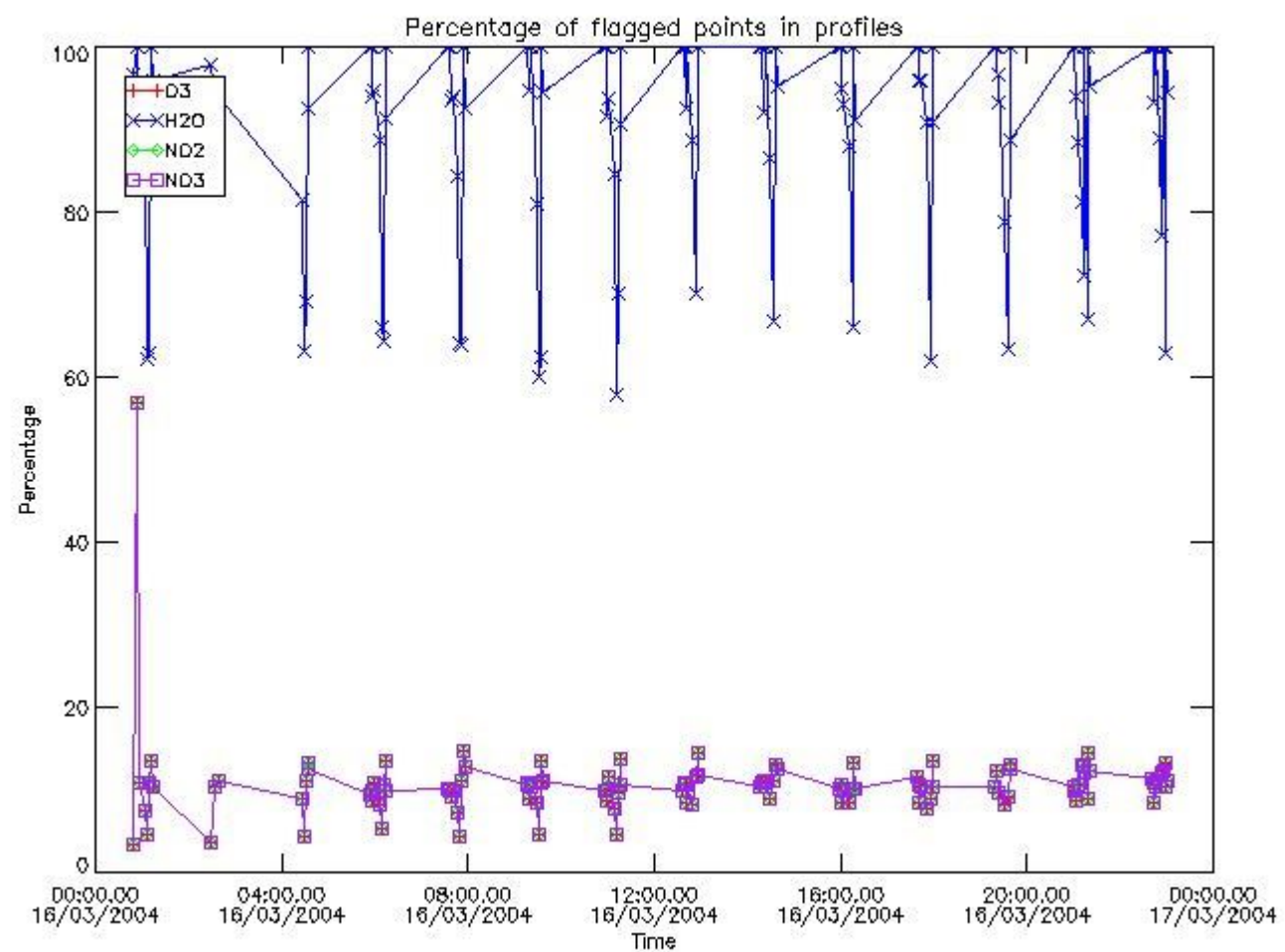
43	GOM_NL__2PRFIN20040316_021411_000000392025_00103_10678_0585.N1	16-MAR-2004 02:14:11	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	10678	No
44	GOM_NL__2PRFIN20040316_022232_000000552025_00103_10678_0586.N1	16-MAR-2004 02:22:32	Twilight	54.500	11	53Alp Aql	0.76500	8000.0	109	10678	No
45	GOM_NL__2PRFIN20040316_022941_000001572025_00103_10678_0587.N1	16-MAR-2004 02:29:41	Dark	156.50	59	55Alp Oph	2.0800	8900.0	313	10678	No
46	GOM_NL__2PRFIN20040316_023447_000000492025_00103_10678_0588.N1	16-MAR-2004 02:34:47	Dark	49.000	57	34Sig Sgr	2.0660	26000.	98	10678	No
47	GOM_NL__2PRFIN20040316_023816_000000502025_00103_10678_0589.N1	16-MAR-2004 02:38:16	Dark	49.500	38	20Eps Sgr	1.8360	11000.	99	10678	No
48	GOM_NL__2PRFIN20040316_042548_000000632025_00105_10680_0561.N1	16-MAR-2004 04:25:48	Dark	62.500	75	26Eps Sco	2.2910	4250.0	125	10680	No
49	GOM_NL__2PRFIN20040316_042828_000001172025_00105_10680_0562.N1	16-MAR-2004 04:28:28	Dark	117.00	16	21Alp Sco	1.0200	3000.0	234	10680	No
50	GOM_NL__2PRFIN20040316_043117_000000462025_00105_10680_0563.N1	16-MAR-2004 04:31:17	Dark	46.000	4	Alp1Cen	-0.010000	5800.0	92	10680	No
51	GOM_NL__2PRFIN20040316_043255_000000392025_00105_10680_0564.N1	16-MAR-2004 04:32:55	Dark	38.500	112	Alp Mus	2.6880	26000.	77	10680	No
52	GOM_NL__2PRFIN20040316_043424_000000412025_00105_10680_0565.N1	16-MAR-2004 04:34:24	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	10680	No
53	GOM_NL__2PRFIN20040316_043541_000000472025_00105_10680_0566.N1	16-MAR-2004 04:35:41	Straylight	46.500	26	Gam Cru	1.6240	2900.0	93	10680	No
54	GOM_NL__2PRFIN20040316_043726_000000472025_00105_10680_0567.N1	16-MAR-2004 04:37:26	Straylight	47.000	64	Gam Cen	2.2000	10600.	94	10680	No
55	GOM_NL__2PRFIN20040316_043938_000000512025_00105_10680_0568.N1	16-MAR-2004 04:39:38	Straylight	51.000	123	lot Cen	2.7500	10200.	102	10680	No
56	GOM_NL__2PRFIN20040316_044525_000000602025_00105_10680_0569.N1	16-MAR-2004 04:45:25	Straylight	59.500	106	9Bet Crv	2.6480	5600.0	119	10680	No
57	GOM_NL__2PRFIN20040316_044744_000000532025_00105_10680_0570.N1	16-MAR-2004 04:47:44	Twilight	52.500	100	4Gam Crv	2.5800	13100.	105	10680	No
58	GOM_NL__2PRFIN20040316_045029_000000922025_00105_10680_0571.N1	16-MAR-2004 04:50:29	Bright	92.000	15	67Alp Vir	0.97600	28000.	184	10680	No
59	GOM_NL__2PRFIN20040316_045416_000000602025_00105_10680_0572.N1	16-MAR-2004 04:54:16	Bright	60.000	121	29Gam Vir	2.7400	7200.0	120	10680	No
60	GOM_NL__2PRFIN20040316_045706_000000392025_00105_10680_0573.N1	16-MAR-2004 04:57:06	Bright	39.000	22	32Alp Leo	1.3600	15200.	78	10680	No
61	GOM_NL__2PRFIN20040316_045921_000000392025_00105_10680_0574.N1	16-MAR-2004 04:59:21	Bright	38.500	51	41Gam1Leo	2.0100	4500.0	77	10680	No
62	GOM_NL__2PRFIN20040316_050705_000000392025_00105_10680_0575.N1	16-MAR-2004 05:07:05	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	10680	No
63	GOM_NL__2PRFIN20040316_051017_000000392025_00105_10680_0576.N1	16-MAR-2004 05:10:17	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	10680	No
64	GOM_NL__2PRFIN20040316_051146_000000402025_00105_10680_0577.N1	16-MAR-2004 05:11:46	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	10680	No
65	GOM_NL__2PRFIN20040316_051318_000000472025_00105_10680_0578.N1	16-MAR-2004 05:13:18	Bright	47.000	32	77Eps UMa	1.7630	11000.	94	10680	No
66	GOM_NL__2PRFIN20040316_051511_000000562025_00105_10680_0579.N1	16-MAR-2004 05:15:11	Bright	56.000	39	85Eta UMa	1.8540	24000.	112	10680	No
67	GOM_NL__2PRFIN20040316_051849_000000432025_00105_10680_0580.N1	16-MAR-2004 05:18:49	Bright	43.000	60	7Bet UMi	2.0810	3950.0	86	10680	No
68	GOM_NL__2PRFIN20040316_052252_000000492025_00105_10680_0581.N1	16-MAR-2004 05:22:52	Bright	48.500	119	14Eta Dra	2.7270	4700.0	97	10680	No
69	GOM_NL__2PRFIN20040316_052559_000000392025_00105_10680_0582.N1	16-MAR-2004 05:25:59	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	10680	No
70	GOM_NL__2PRFIN20040316_052751_000000532025_00105_10680_0583.N1	16-MAR-2004 05:27:51	Bright	53.000	130	23Bet Dra	2.7990	5800.0	106	10680	No
71	GOM_NL__2PRFIN20040316_053204_000000412025_00105_10680_0584.N1	16-MAR-2004 05:32:04	Bright	40.500	19	50Alp Cyg	1.2460	10500.	81	10680	No
72	GOM_NL__2PRFIN20040316_053339_000000392025_00105_10680_0585.N1	16-MAR-2004 05:33:39	Bright	38.500	66	37Gam Cyg	2.2080	5900.0	77	10680	No
73	GOM_NL__2PRFIN20040316_054344_000000602025_00105_10680_0586.N1	16-MAR-2004 05:43:44	Twilight	59.500	11	53Alp Aql	0.76500	8000.0	119	10680	No
74	GOM_NL__2PRFIN20040316_055357_000000542025_00105_10680_0587.N1	16-MAR-2004 05:53:57	Dark	54.000	155	41Pi Sgr	2.9000	6600.0	108	10680	No
75	GOM_NL__2PRFIN20040316_055601_000000522025_00105_10680_0588.N1	16-MAR-2004 05:56:01	Dark	52.000	57	34Sig Sgr	2.0660	26000.	104	10680	No
76	GOM_NL__2PRFIN20040316_055725_000000602025_00105_10680_0589.N1	16-MAR-2004 05:57:25	Dark	59.500	137	22Lam Sgr	2.8240	4400.0	119	10680	No
77	GOM_NL__2PRFIN20040316_055930_000000482025_00105_10680_0590.N1	16-MAR-2004 05:59:30	Dark	47.500	38	20Eps Sgr	1.8360	11000.	95	10680	No
78	GOM_NL__2PRFIN20040316_060626_000000622025_00106_10681_0562.N1	16-MAR-2004 06:06:26	Dark	62.000	75	26Eps Sco	2.2910	4250.0	124	10681	No
79	GOM_NL__2PRFIN20040316_060904_000000962025_00106_10681_0563.N1	16-MAR-2004 06:09:04	Dark	96.000	16	21Alp Sco	1.0200	3000.0	192	10681	No
80	GOM_NL__2PRFIN20040316_061154_000000482025_00106_10681_0564.N1	16-MAR-2004 06:11:54	Dark	48.000	4	Alp1Cen	-0.010000	5800.0	96	10681	No
81	GOM_NL__2PRFIN20040316_061332_000000382025_00106_10681_0565.N1	16-MAR-2004 06:13:32	Dark	38.000	112	Alp Mus	2.6880	26000.	76	10681	No
82	GOM_NL__2PRFIN20040316_061501_000000522025_00106_10681_0566.N1	16-MAR-2004 06:15:01	Dark	52.000	12	Alp1Cru	0.77500	30000.	104	10681	No
83	GOM_NL__2PRFIN20040316_061618_000000542025_00106_10681_0567.N1	16-MAR-2004 06:16:18	Straylight	54.000	26	Gam Cru	1.6240	2900.0	108	10681	No
84	GOM_NL__2PRFIN20040316_061803_000000442025_00106_10681_0568.N1	16-MAR-2004 06:18:03	Straylight	44.000	64	Gam Cen	2.2000	10600.	88	10681	No
85	GOM_NL__2PRFIN20040316_062015_000000532025_00106_10681_0569.N1	16-MAR-2004 06:20:15	Straylight	53.000	123	lot Cen	2.7500	10200.	106	10681	No
86	GOM_NL__2PRFIN20040316_062601_000000552025_00106_10681_0570.N1	16-MAR-2004 06:26:01	Straylight	54.500	106	9Bet Crv	2.6480	5600.0	109	10681	No
87	GOM_NL__2PRFIN20040316_062820_000000512025_00106_10681_0571.N1	16-MAR-2004 06:28:20	Twilight	51.000	100	4Gam Crv	2.5800	13100.	102	10681	No
88	GOM_NL__2PRFIN20040316_063105_000000922025_00106_10681_0572.N1	16-MAR-2004 06:31:05	Bright	91.500	15	67Alp Vir	0.97600	28000.	183	10681	No
89	GOM_NL__2PRFIN20040316_063451_000000602025_00106_10681_0573.N1	16-MAR-2004 06:34:51	Bright	60.000	121	29Gam Vir	2.7400	7200.0	120	10681	No
90	GOM_NL__2PRFIN20040316_063743_000000392025_00106_10681_0574.N1	16-MAR-2004 06:37:43	Bright	38.500	22	32Alp Leo	1.3600	15200.	77	10681	No
91	GOM_NL__2PRFIN20040316_063957_000000392025_00106_10681_0575.N1	16-MAR-2004 06:39:57	Bright	38.500	51	41Gam1Leo	2.0100	4500.0	77	10681	No
92	GOM_NL__2PRFIN20040316_064741_000000412025_00106_10681_0576.N1	16-MAR-2004 06:47:41	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	10681	No
93	GOM_NL__2PRFIN20040316_065053_000000382025_00106_10681_0577.N1	16-MAR-2004 06:50:53	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	10681	No
94	GOM_NL__2PRFIN20040316_065222_000000402025_00106_10681_0578.N1	16-MAR-2004 06:52:22	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	10681	No
95	GOM_NL__2PRFIN20040316_065354_000000452025_00106_10681_0579.N1	16-MAR-2004 06:53:54	Bright	45.000	32	77Eps UMa	1.7630	11000.	90	10681	No
96	GOM_NL__2PRFIN20040316_065546_000000552025_00106_10681_0580.N1	16-MAR-2004 06:55:46	Bright	55.000	39	85Eta UMa	1.8540	24000.	110	10681	No
97	GOM_NL__2PRFIN20040316_065925_000000422025_00106_10681_0581.N1	16-MAR-2004 06:59:25	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	10681	No
98	GOM_NL__2PRFIN20040316_070328_000000472025_00106_10681_0582.N1	16-MAR-2004 07:03:28	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	10681	No
99	GOM_NL__2PRFIN20040316_070636_000000392025_00106_10681_0583.N1	16-MAR-2004 07:06:36	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	10681	No
100	GOM_NL__2PRFIN20040316_070826_000000552025_00106_10681_0584.N1	16-MAR-2004 07:08:26	Bright	55.000	130	23Bet Dra	2.7990	5800.0	110	10681	No
101	GOM_NL__2PRFIN20040316_071241_000000392025_00106_10681_0585.N1	16-MAR-2004 07:12:41	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	10681	No

397	GOM_NL__2PRFIN20040316_232339_000000412025_00116_10691_0595.N1	16-MAR-2004 23:23:39	Bright	41.000	22	32Alp Leo	1.3600	15200.	82	10691	No
398	GOM_NL__2PRFIN20040316_232555_000000402025_00116_10691_0596.N1	16-MAR-2004 23:25:55	Bright	40.000	51	41Gam1Leo	2.0100	4500.0	80	10691	No
399	GOM_NL__2PRFIN20040316_233336_000000422025_00116_10691_0597.N1	16-MAR-2004 23:33:36	Bright	41.500	174	52Psi UMa	3.0040	4400.0	83	10691	No
400	GOM_NL__2PRFIN20040316_233648_000000412025_00116_10691_0598.N1	16-MAR-2004 23:36:48	Bright	40.500	82	48Bet UMa	2.3650	10600.	81	10691	No
401	GOM_NL__2PRFIN20040316_233818_000000412025_00116_10691_0599.N1	16-MAR-2004 23:38:18	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	10691	No
402	GOM_NL__2PRFIN20040316_233945_000000482025_00116_10691_0600.N1	16-MAR-2004 23:39:45	Bright	48.000	32	77Eps UMa	1.7630	11000.	96	10691	No
403	GOM_NL__2PRFIN20040316_234135_000000552025_00116_10691_0601.N1	16-MAR-2004 23:41:35	Bright	54.500	39	85Eta UMa	1.8540	24000.	109	10691	No
404	GOM_NL__2PRFIN20040316_234521_000000412025_00116_10691_0602.N1	16-MAR-2004 23:45:21	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	10691	No
405	GOM_NL__2PRFIN20040316_234921_000000492025_00116_10691_0603.N1	16-MAR-2004 23:49:21	Bright	49.000	119	14Eta Dra	2.7270	4700.0	98	10691	No
406	GOM_NL__2PRFIN20040316_235236_000000412025_00116_10691_0604.N1	16-MAR-2004 23:52:36	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	10691	No
407	GOM_NL__2PRFIN20040316_235421_000000552025_00116_10691_0605.N1	16-MAR-2004 23:54:21	Bright	54.500	130	23Bet Dra	2.7990	5800.0	109	10691	No
408	GOM_NL__2PRFIN20040316_235841_000000382025_00116_10691_0606.N1	16-MAR-2004 23:58:41	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	10691	No

3. Quality information per product

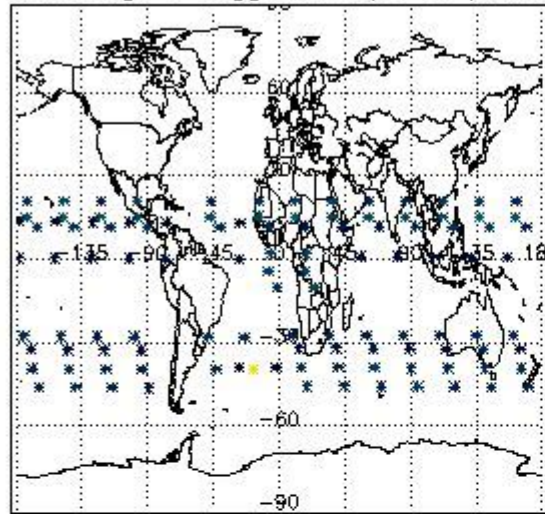
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

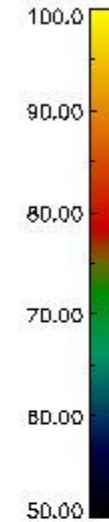
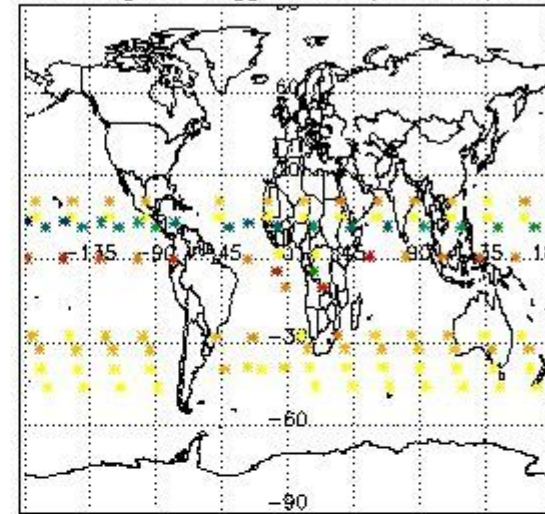


3.2 Plot quality information per product (world map)

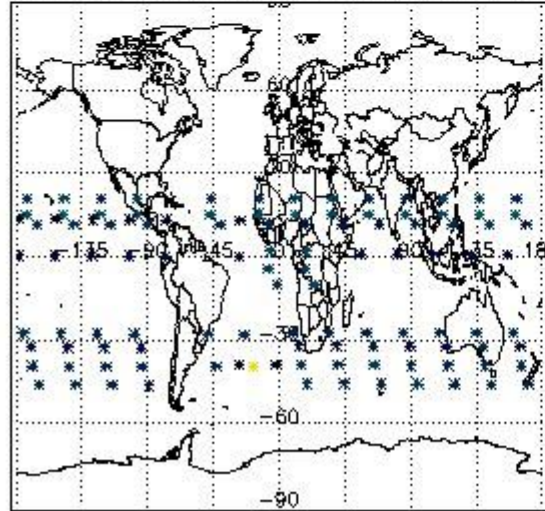
Percentage of flagged data per O3 profile



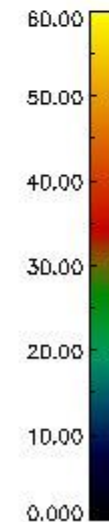
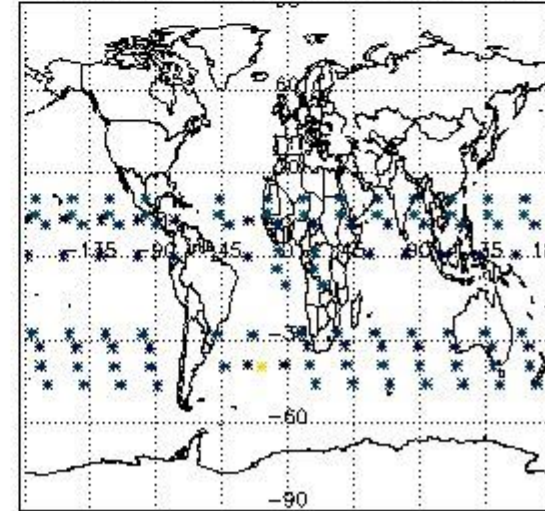
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

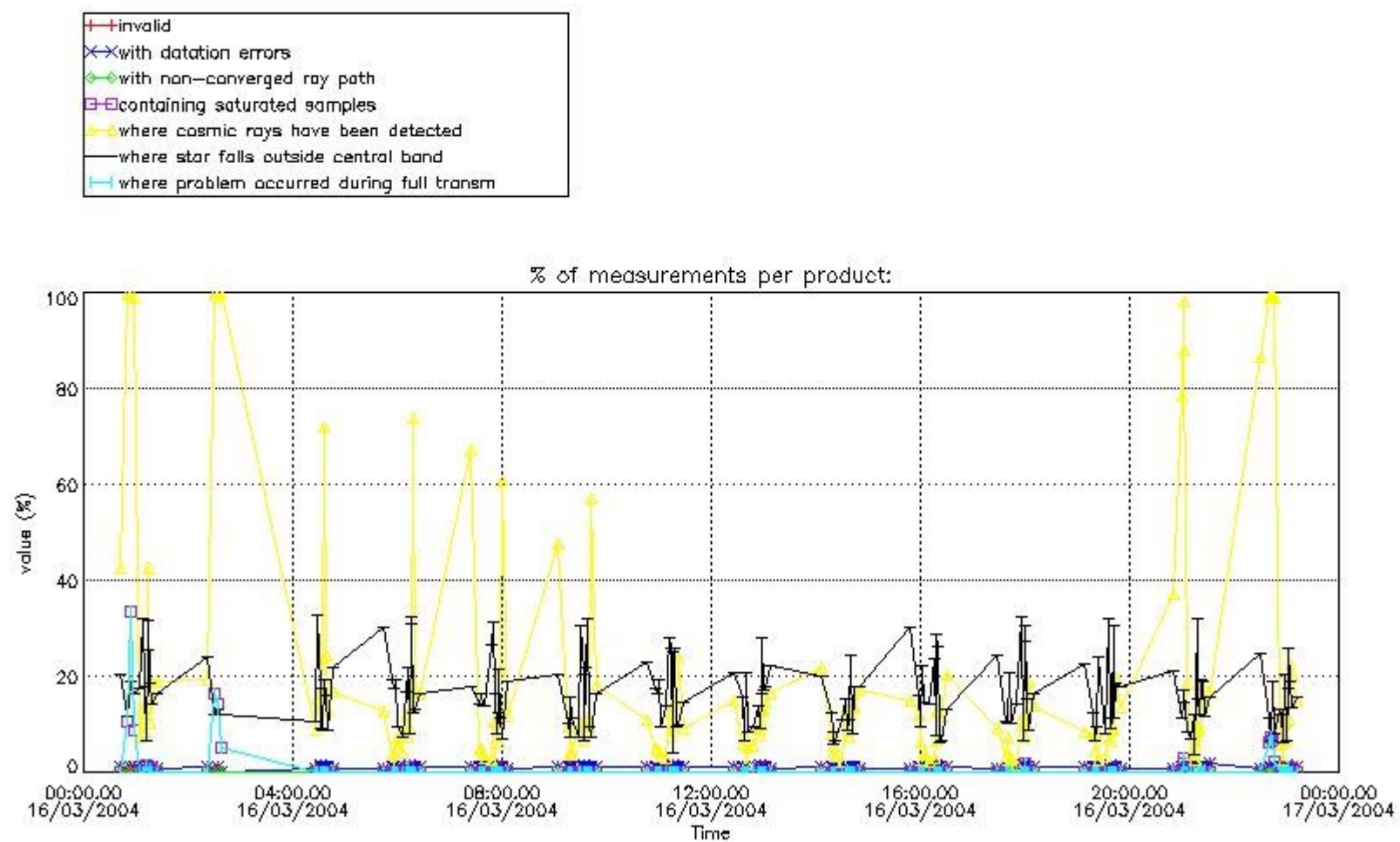


4. Level 1 quality information per product

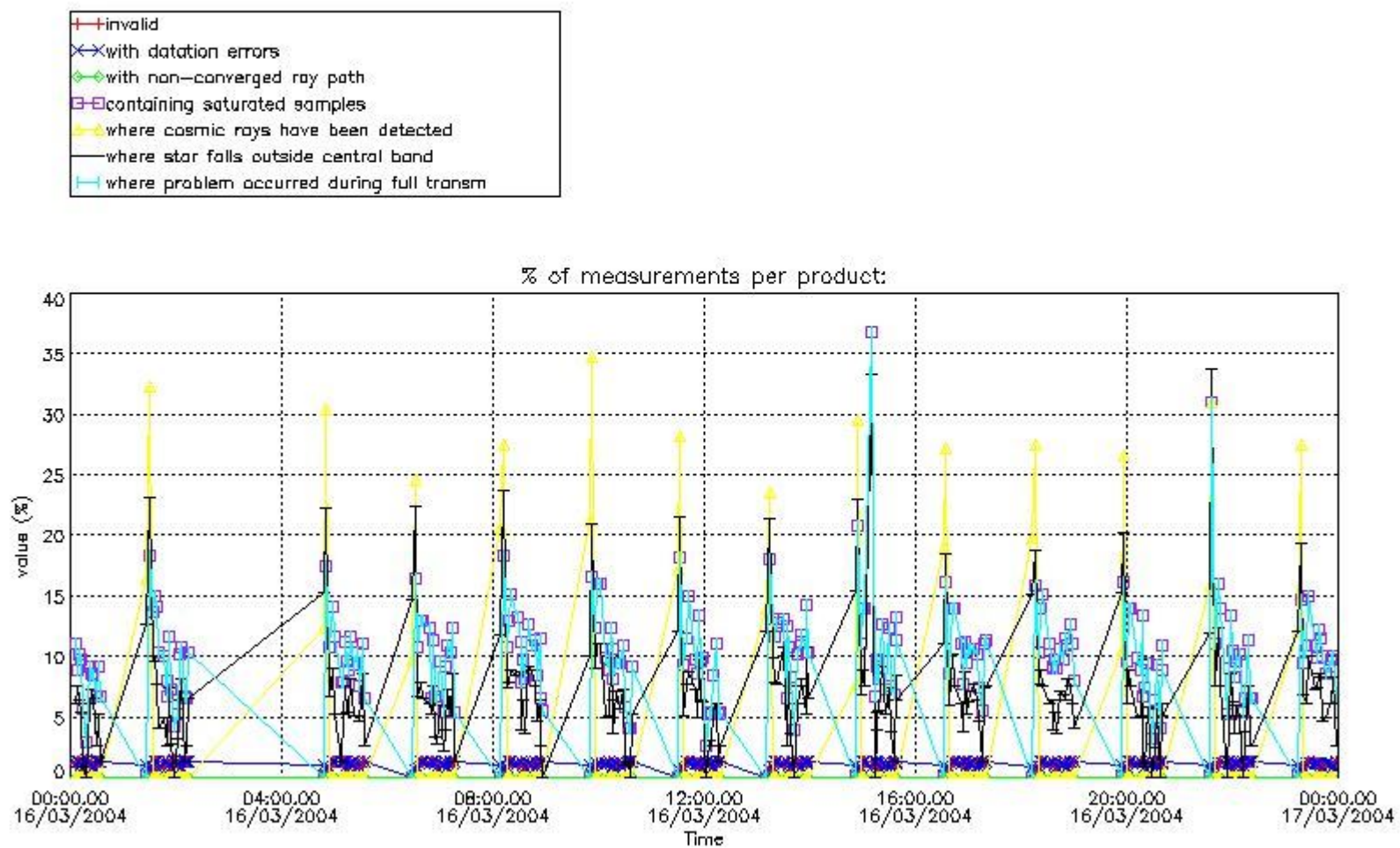
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



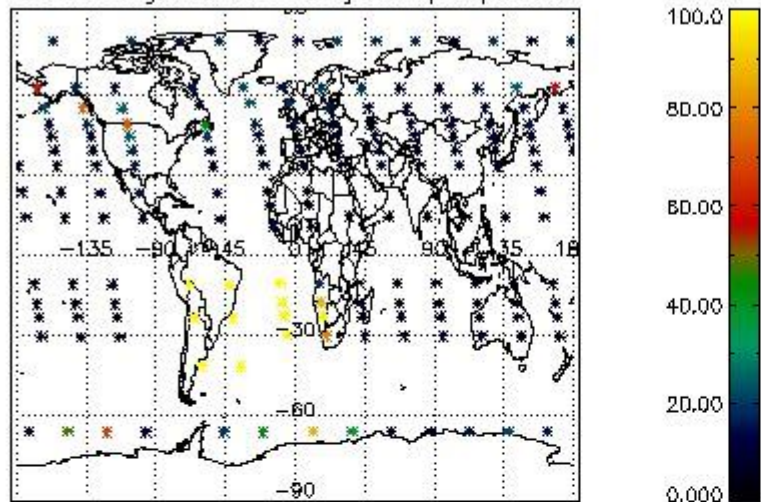
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



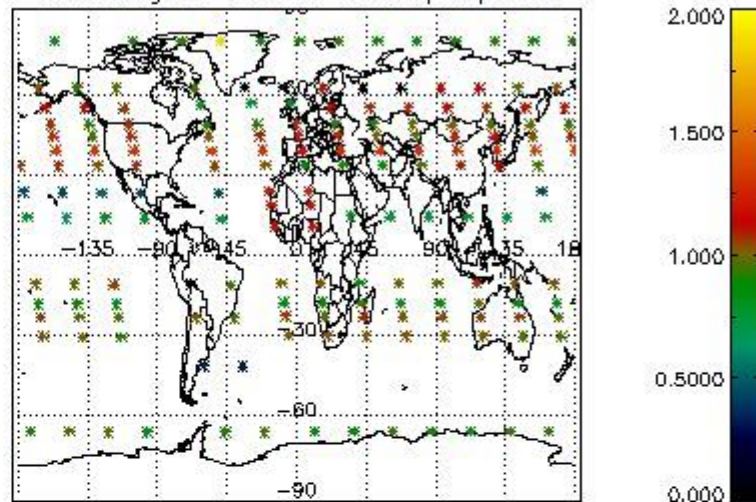
4.2 Plot quality information per product coming from level 1b processing (world map)

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

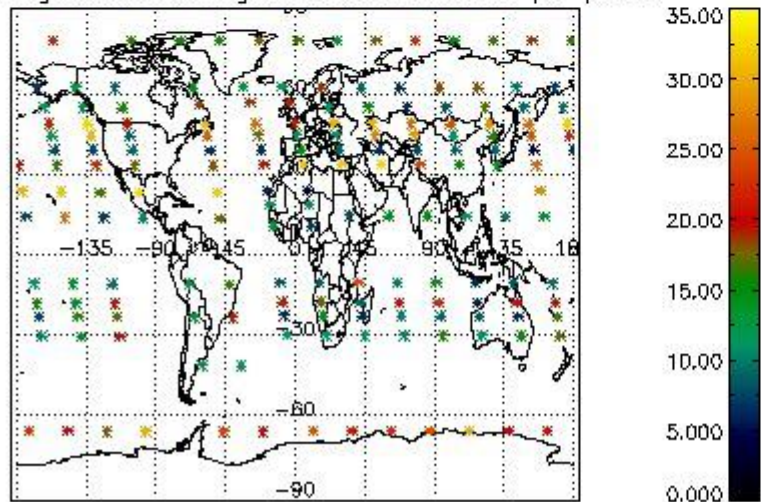
Percentage of cosmic ray hits per profile



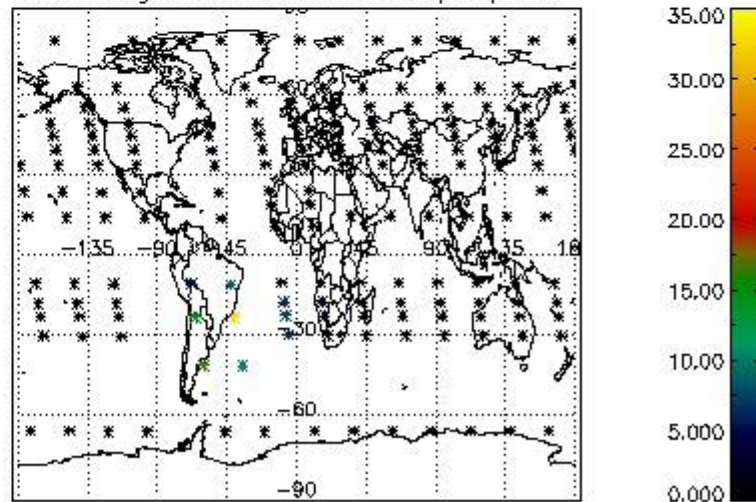
Percentage of datation errors per profile



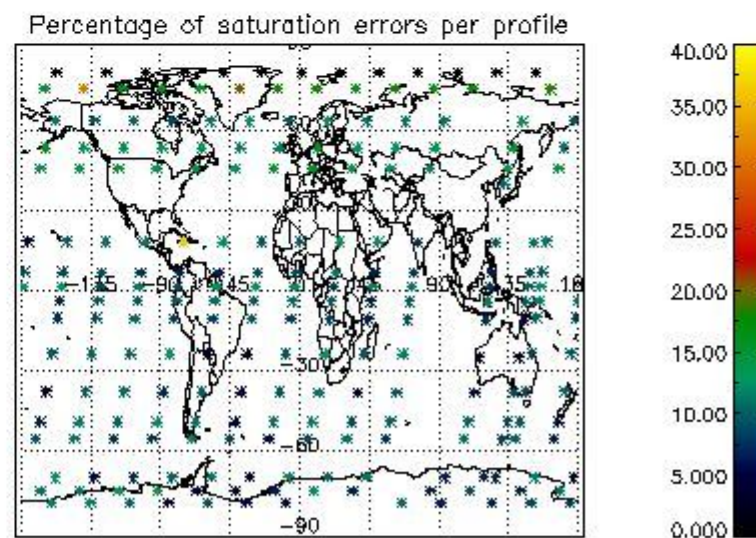
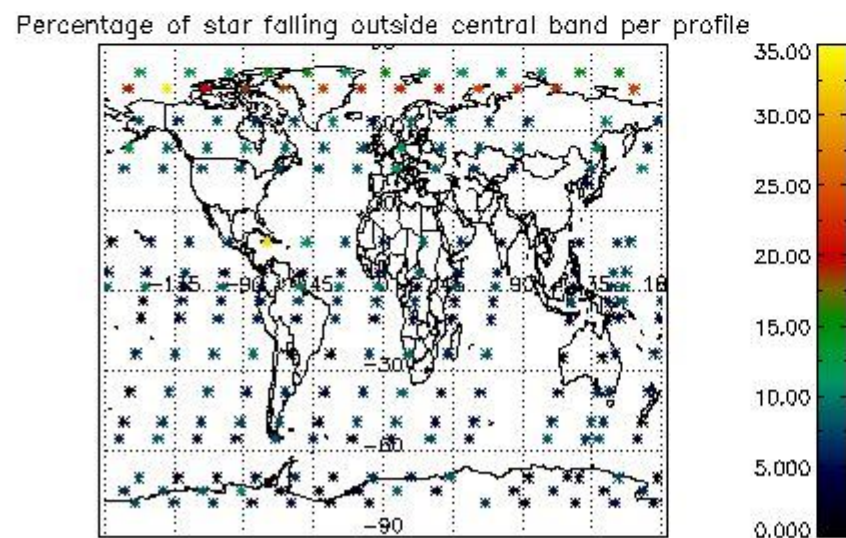
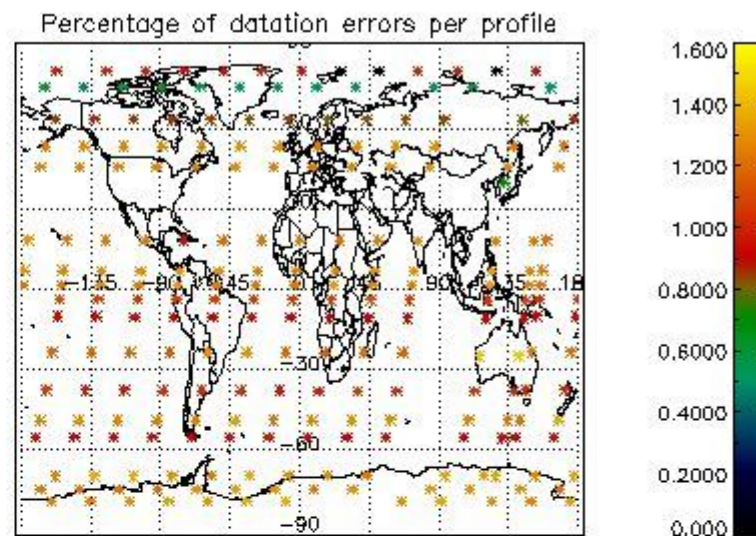
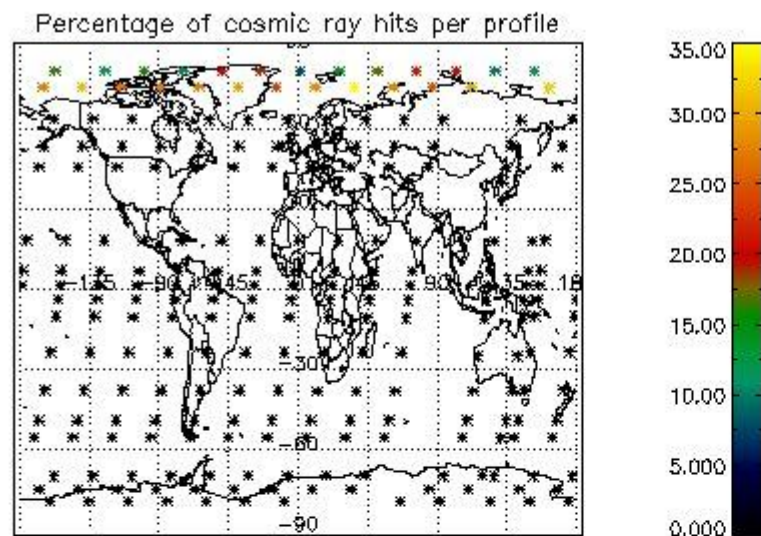
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

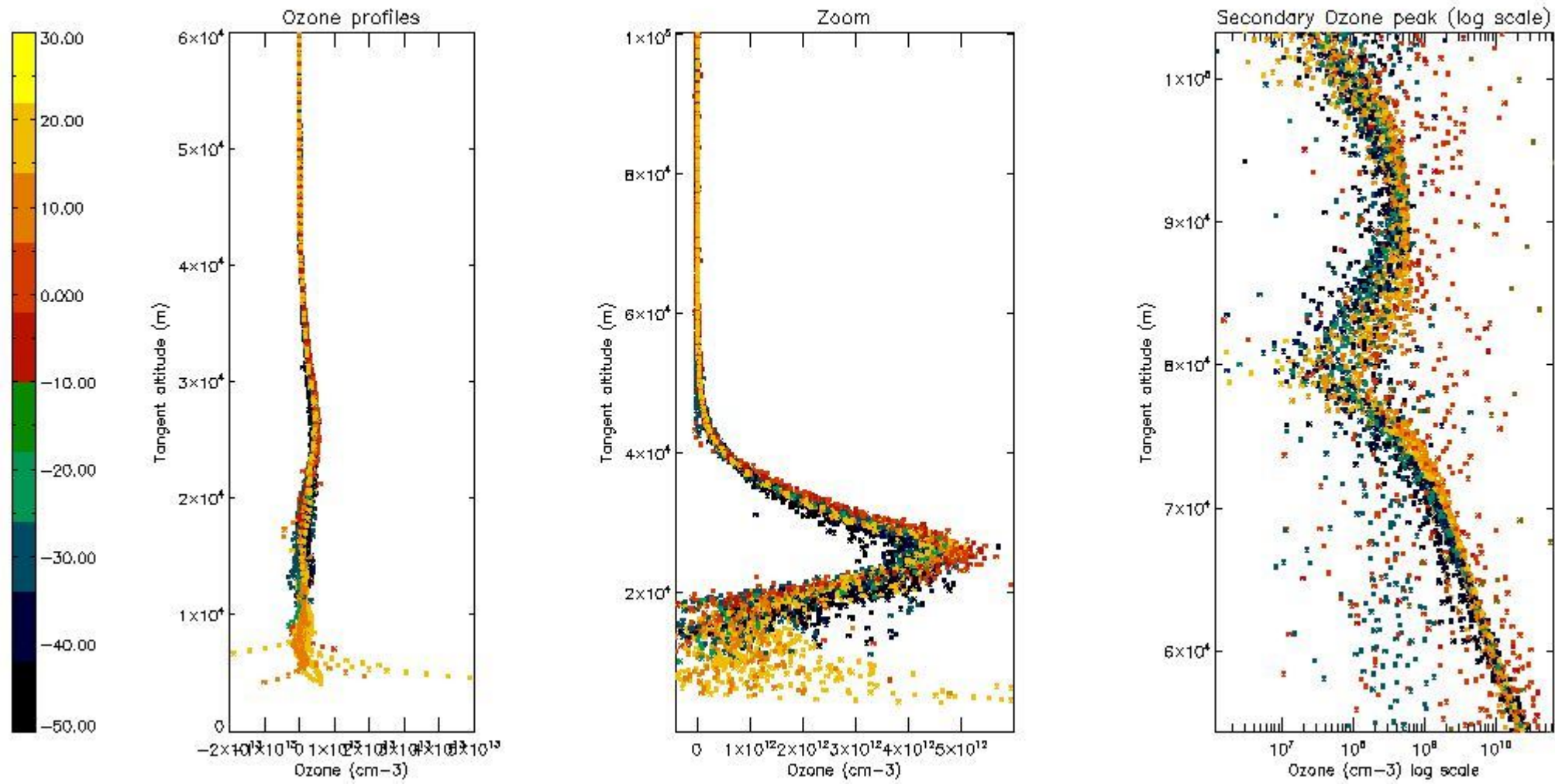
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	16

STD < 10	14
STD < 5	9

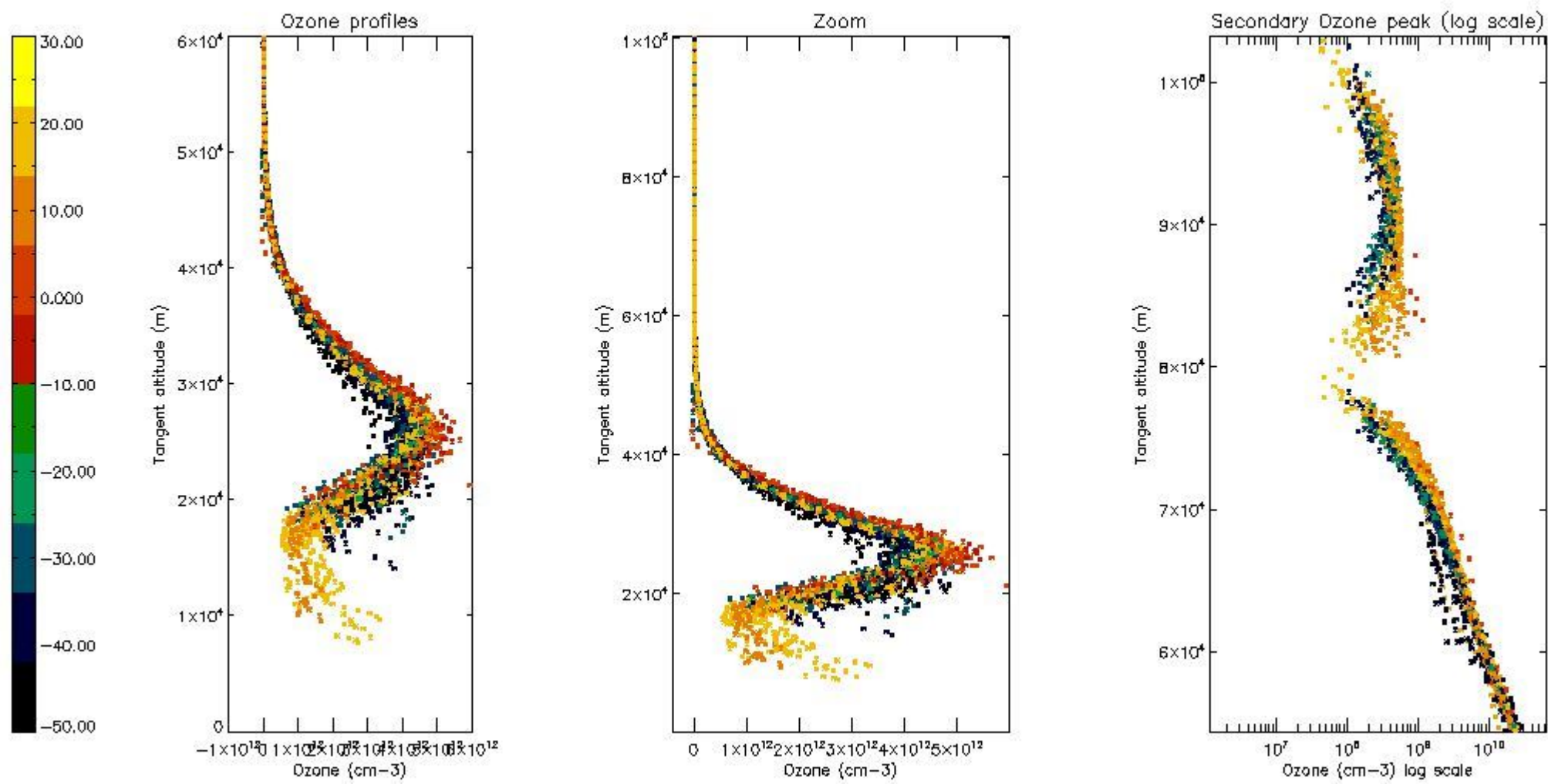
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



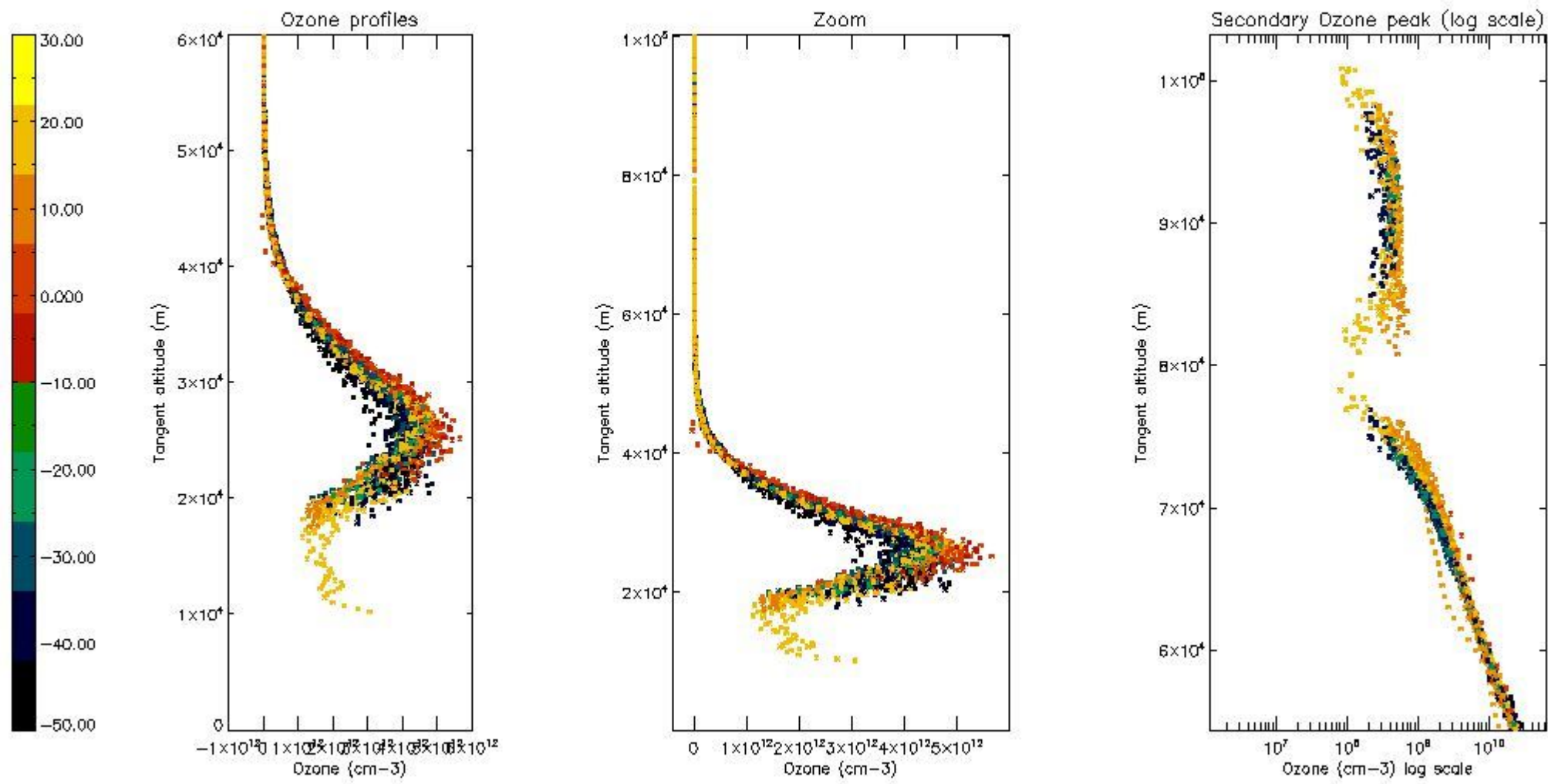
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



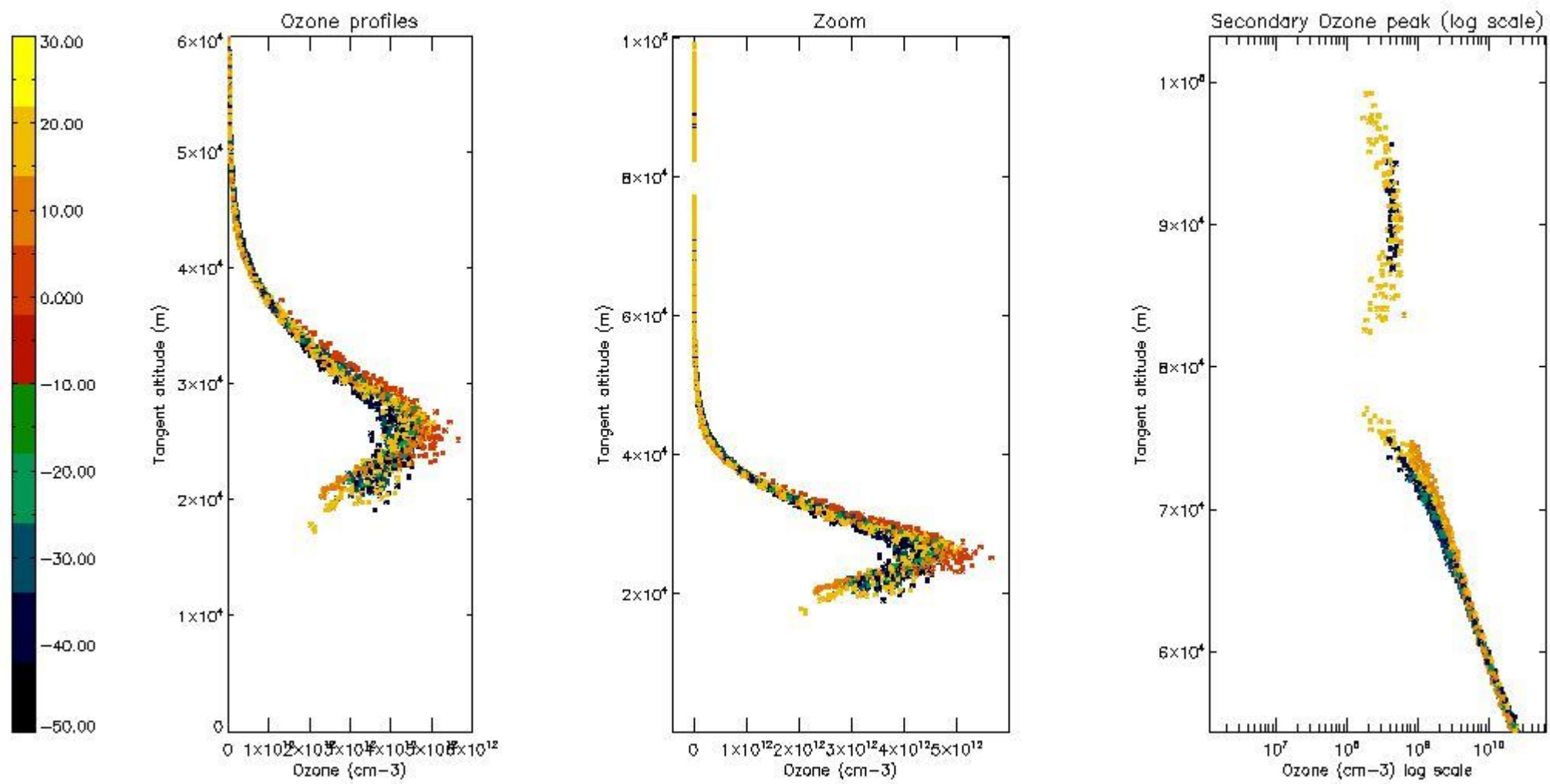
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



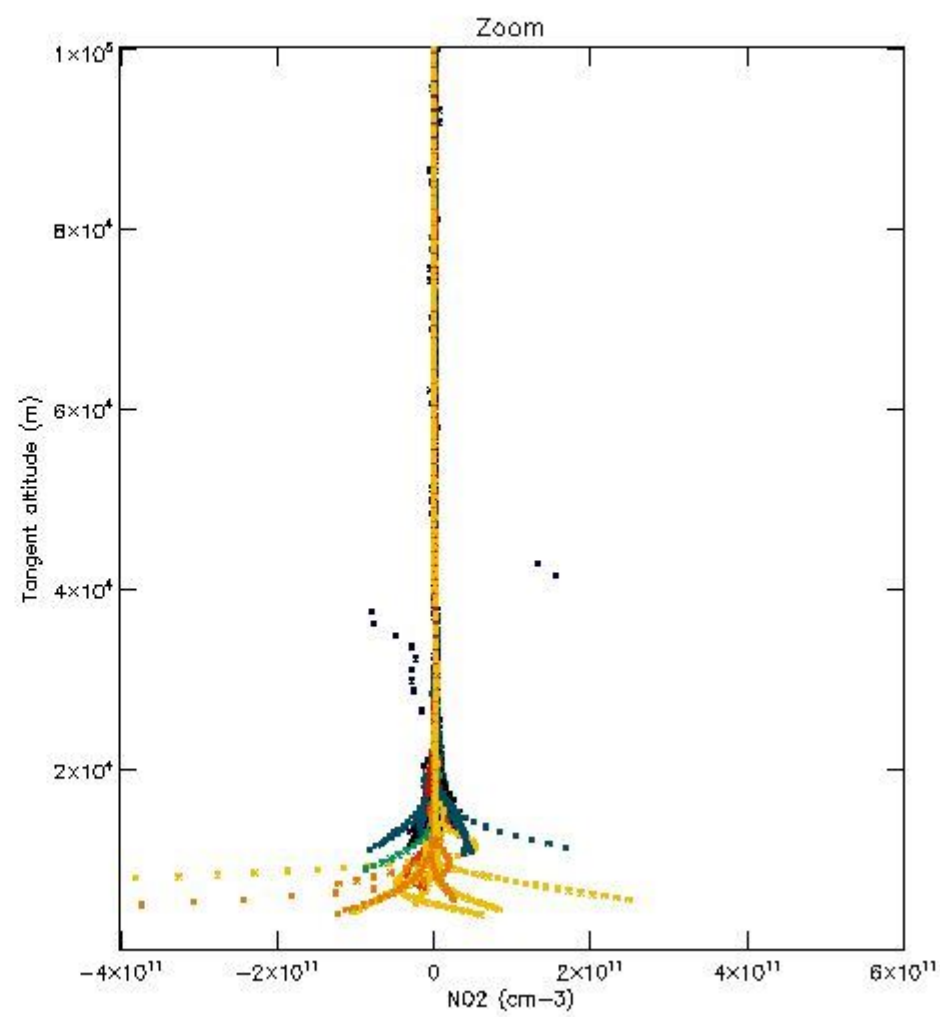
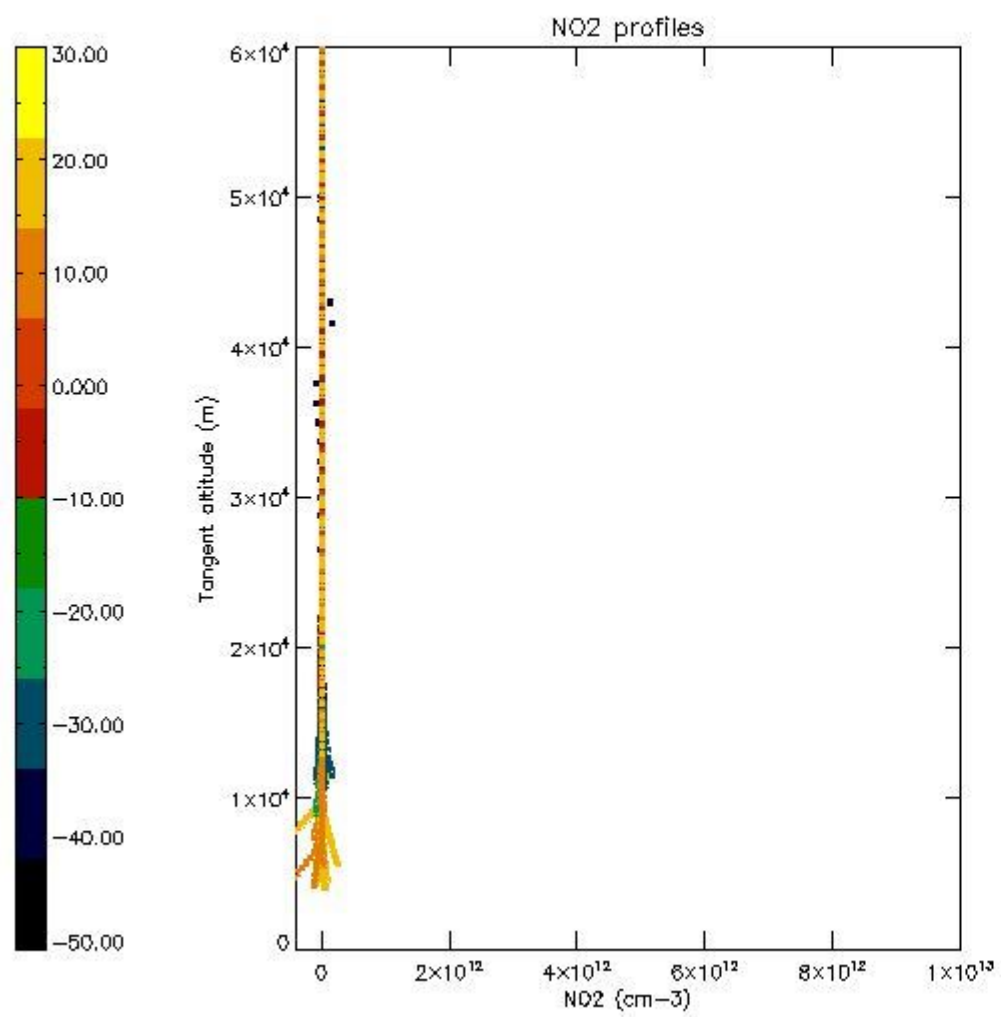
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



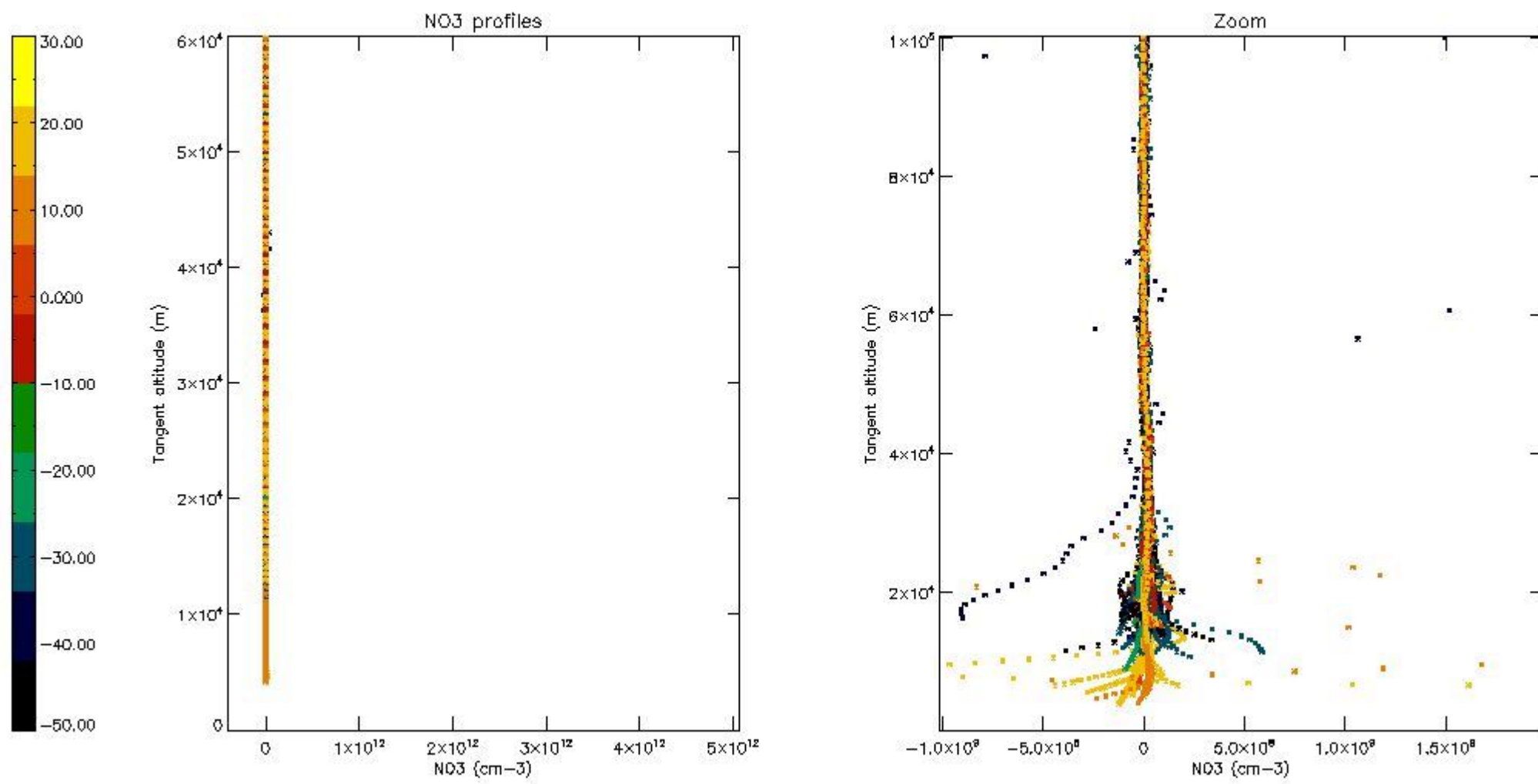
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



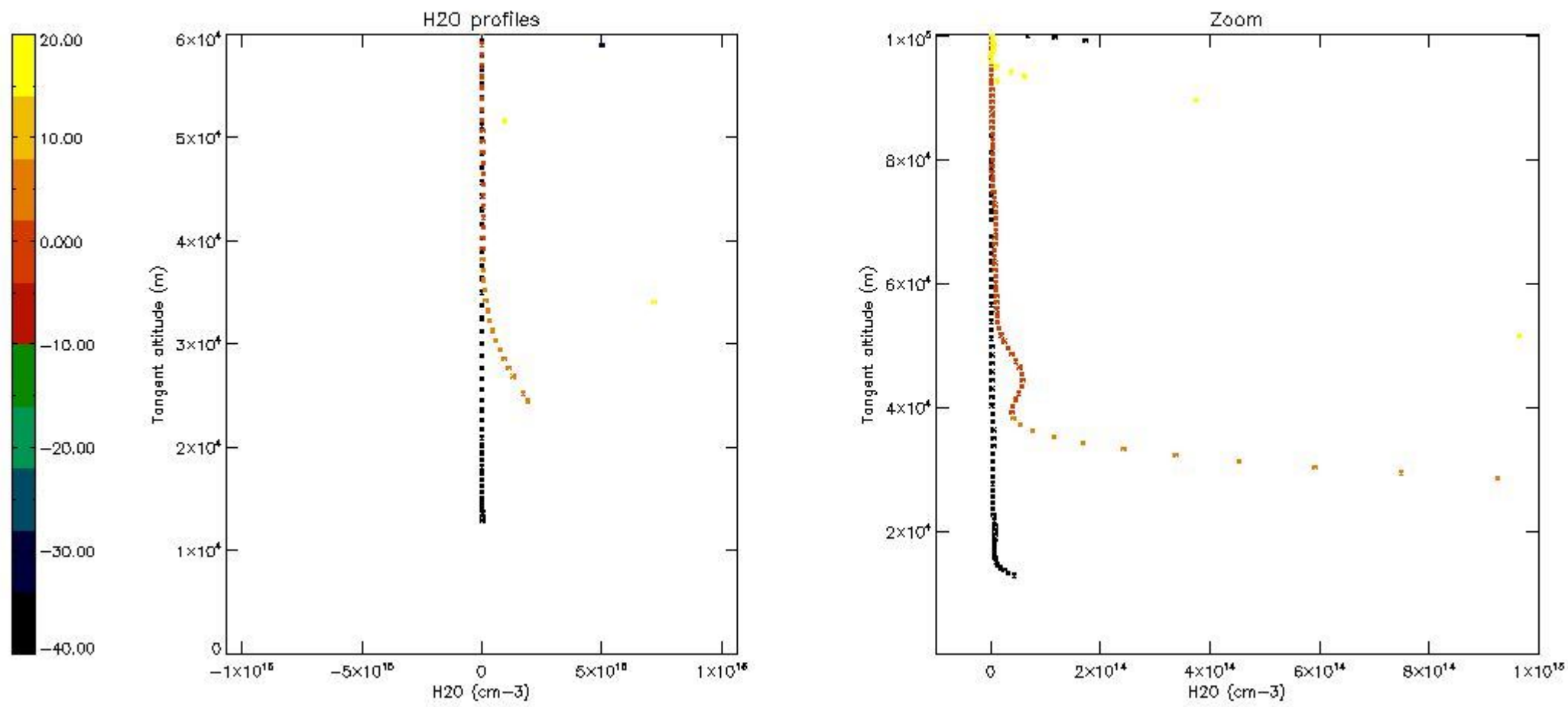
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

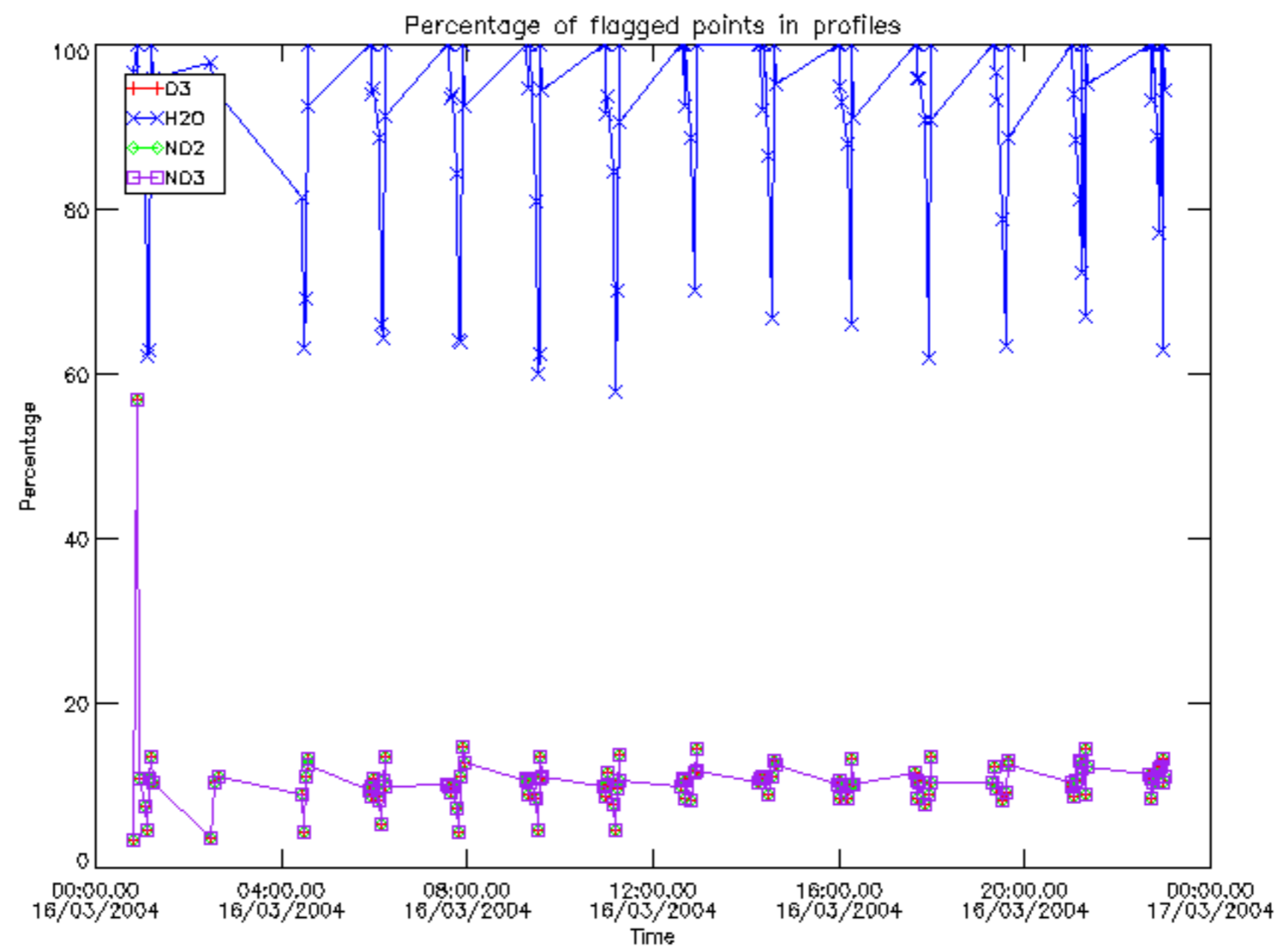
The colorbar represents the latitude.



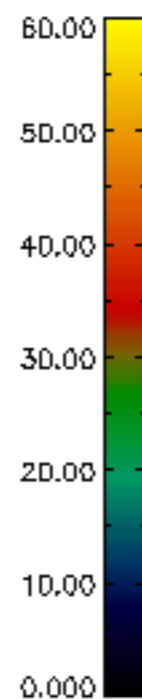
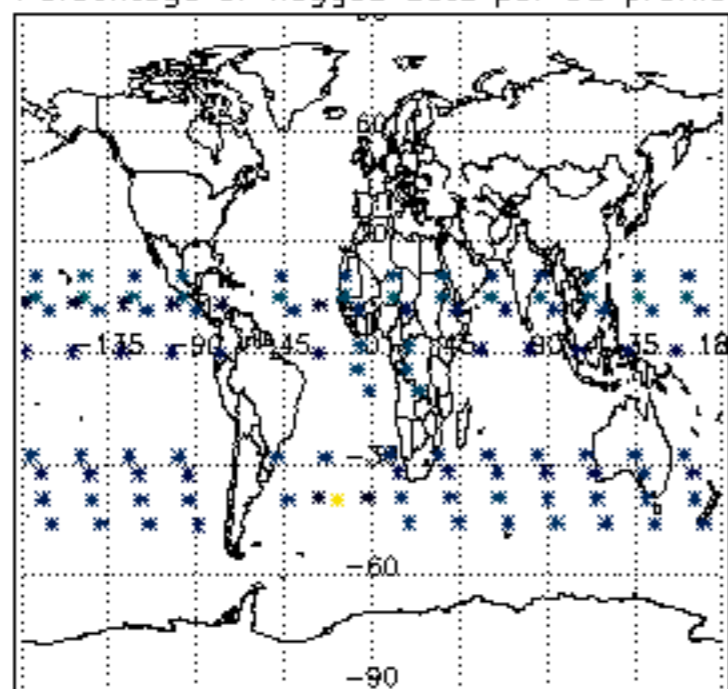
6. Auxiliary Data Files used for the production reported in section 2

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.

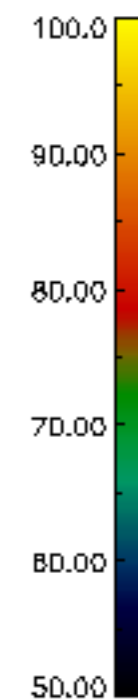
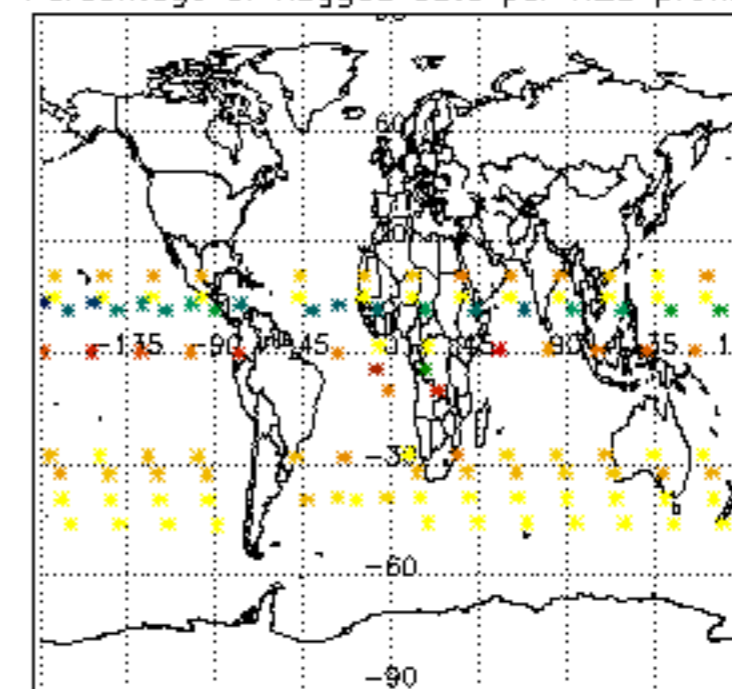
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	16-MAR-2004 00:05:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	16-MAR-2004 00:05:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	16-MAR-2004 00:05:18



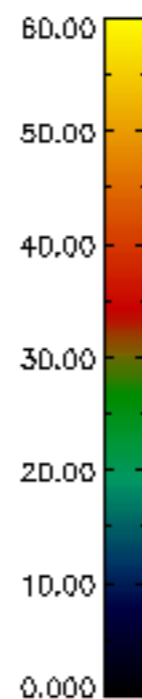
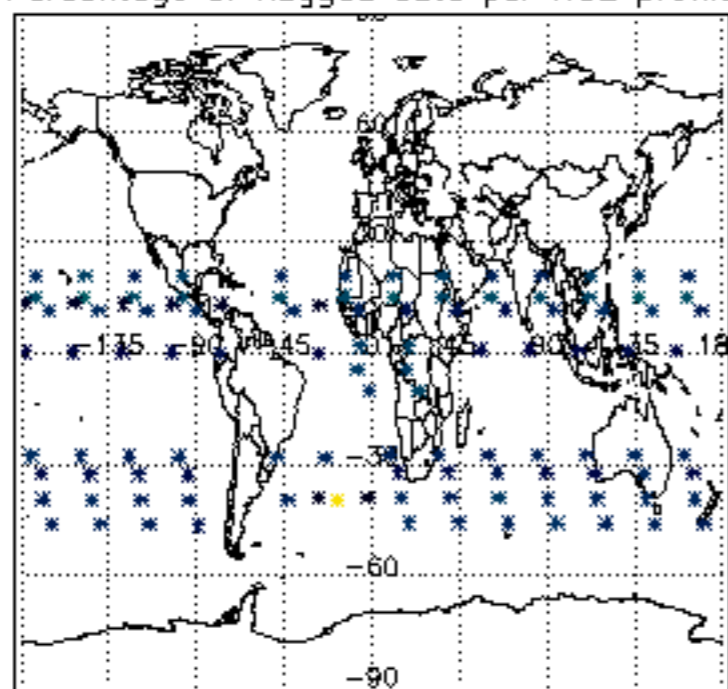
Percentage of flagged data per D3 profile



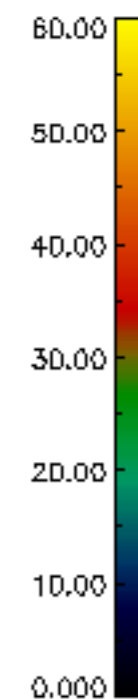
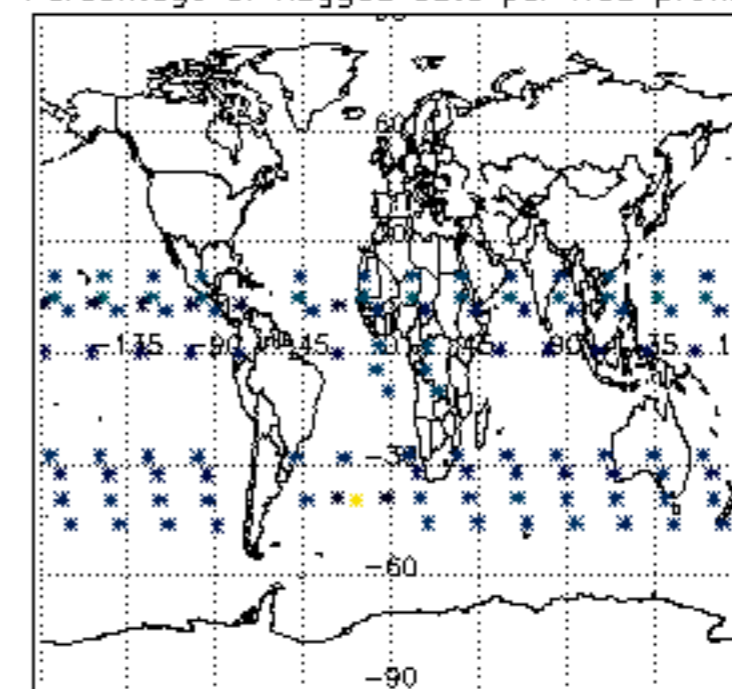
Percentage of flagged data per H2O profile

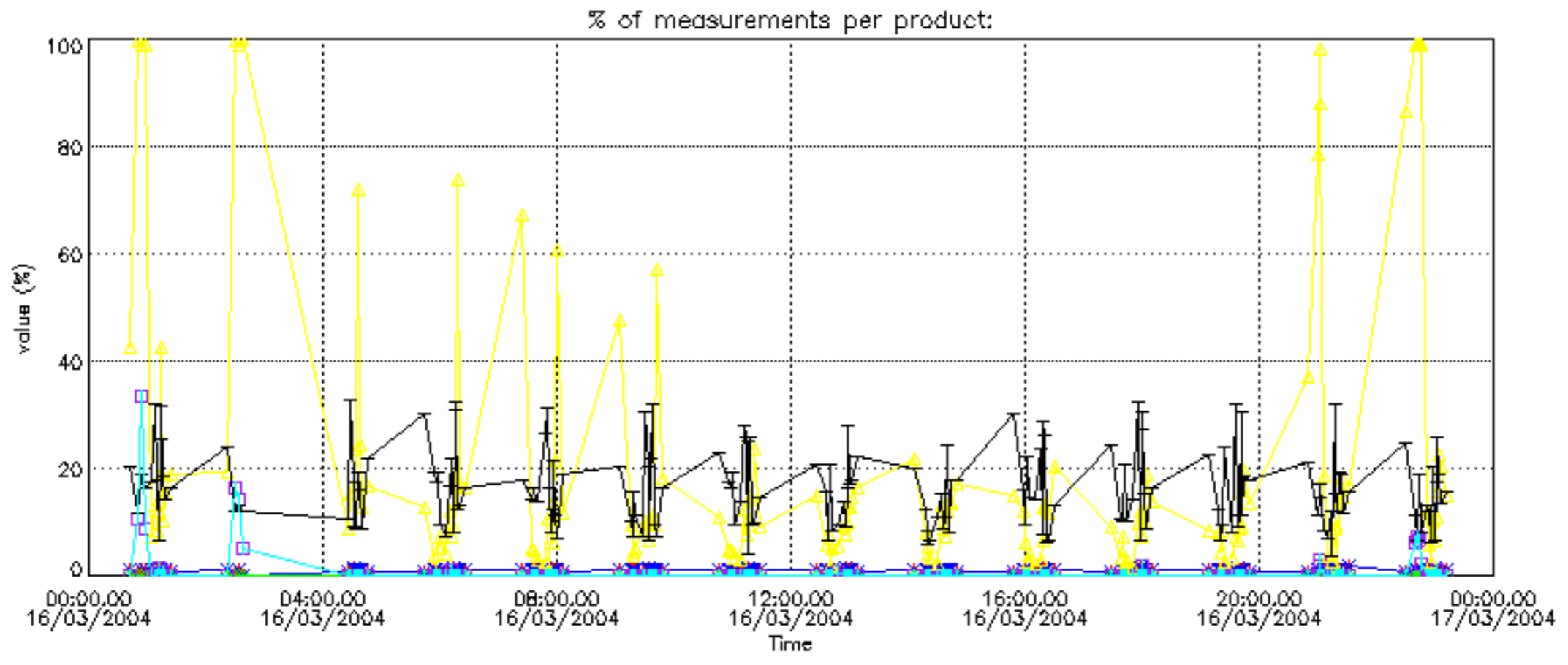
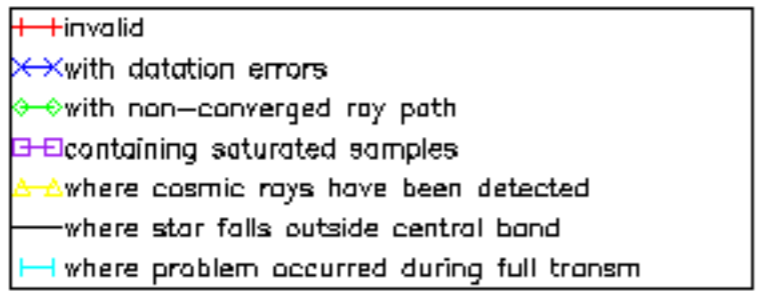


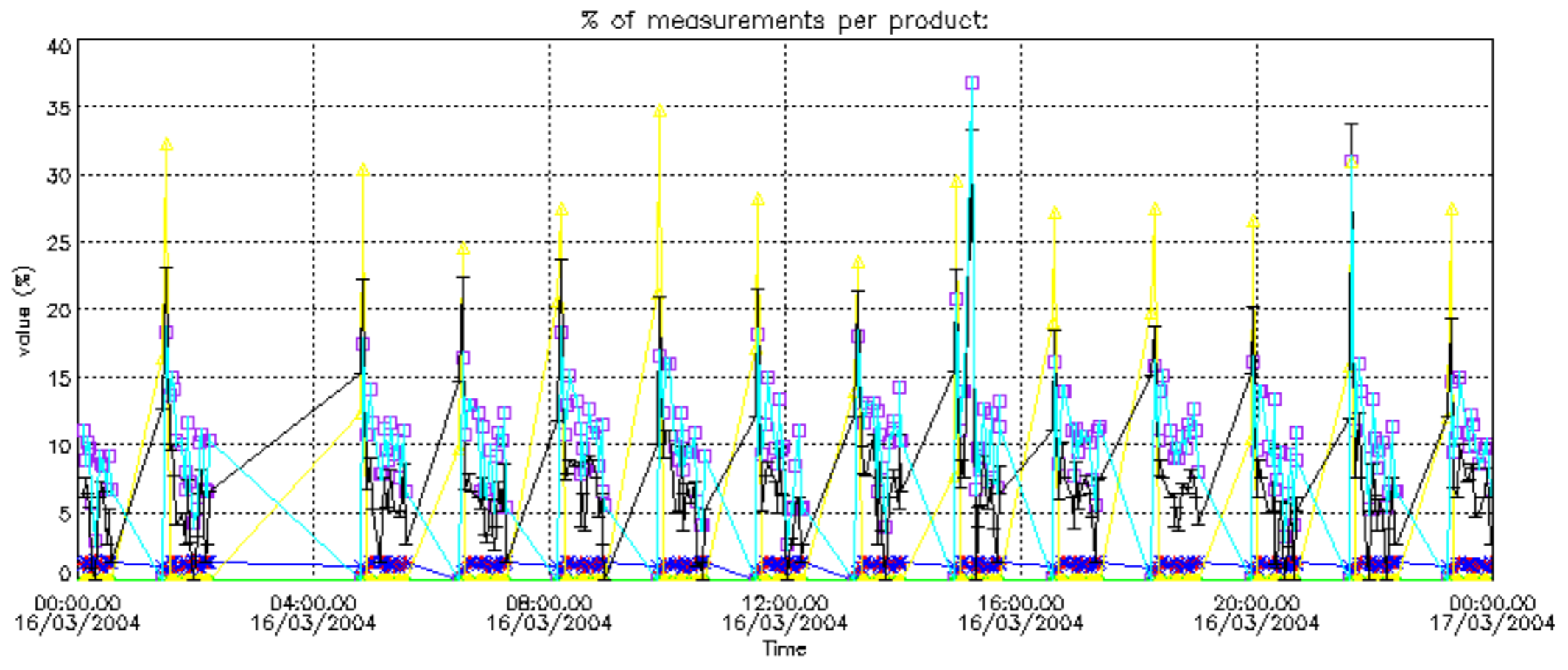
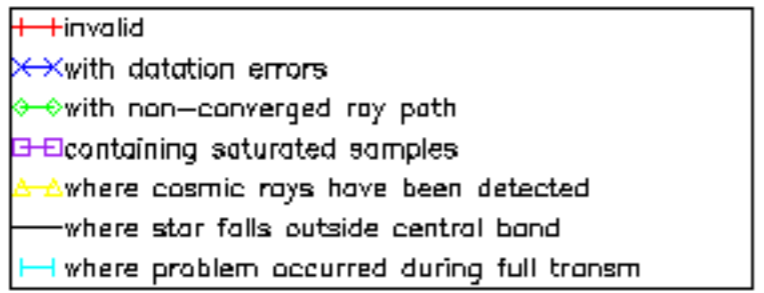
Percentage of flagged data per NO2 profile



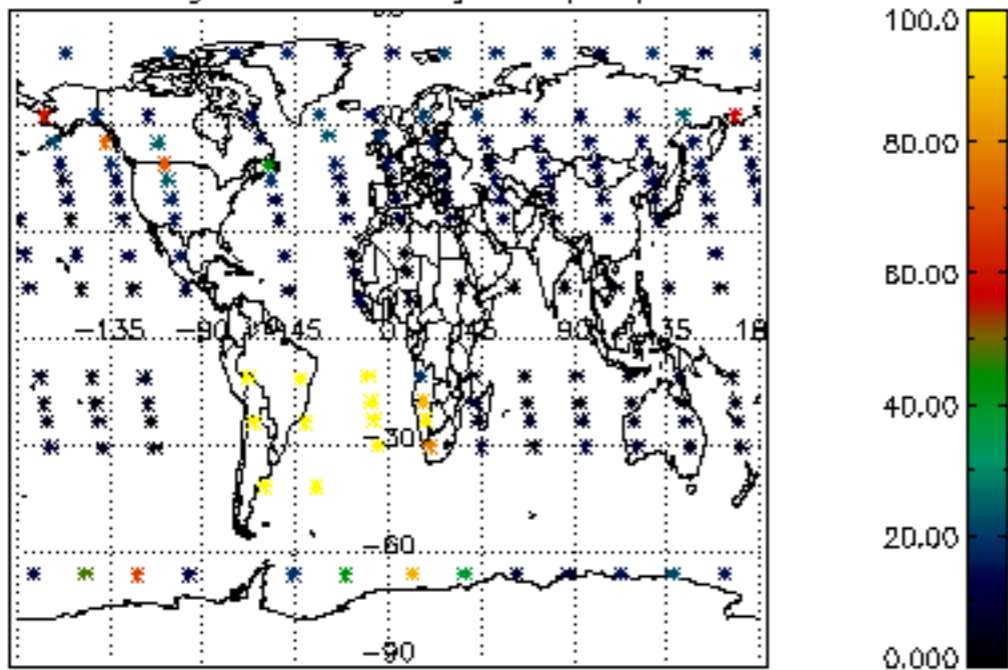
Percentage of flagged data per NO3 profile



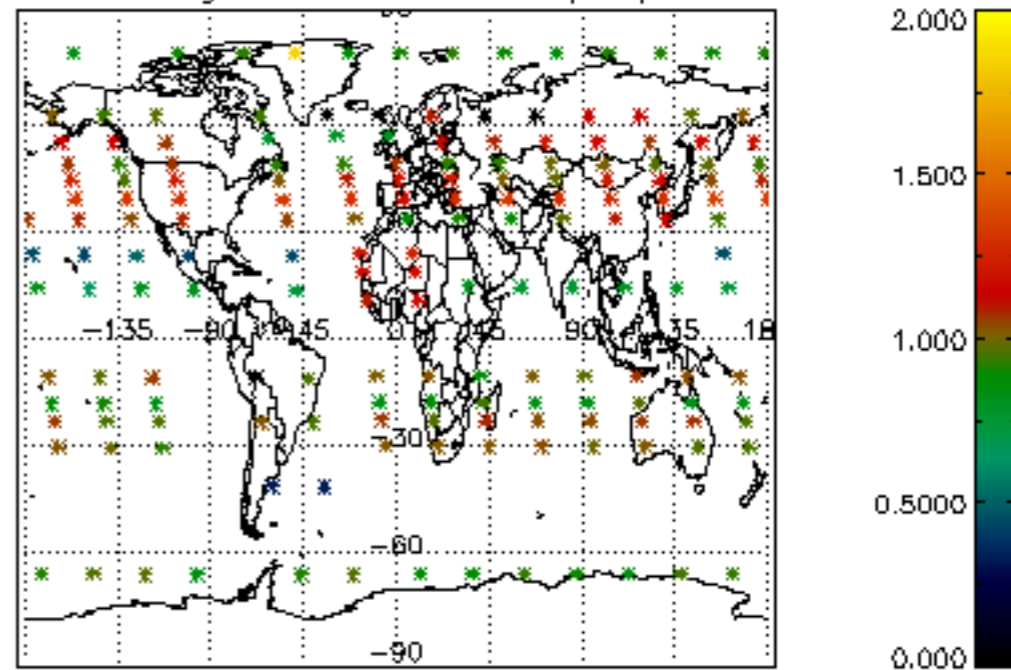




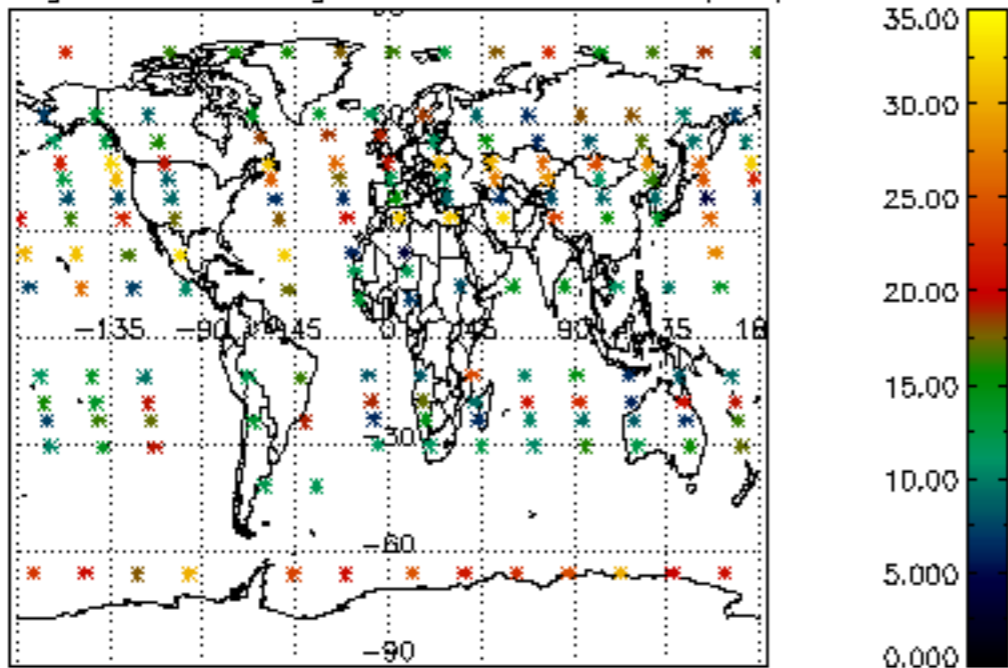
Percentage of cosmic ray hits per profile



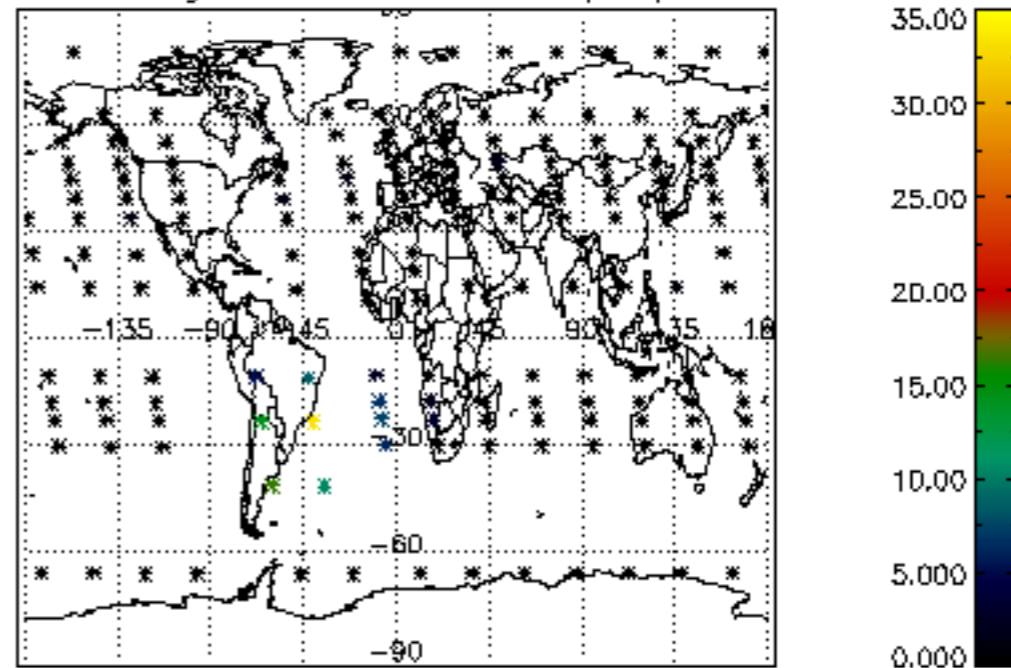
Percentage of datation errors per profile



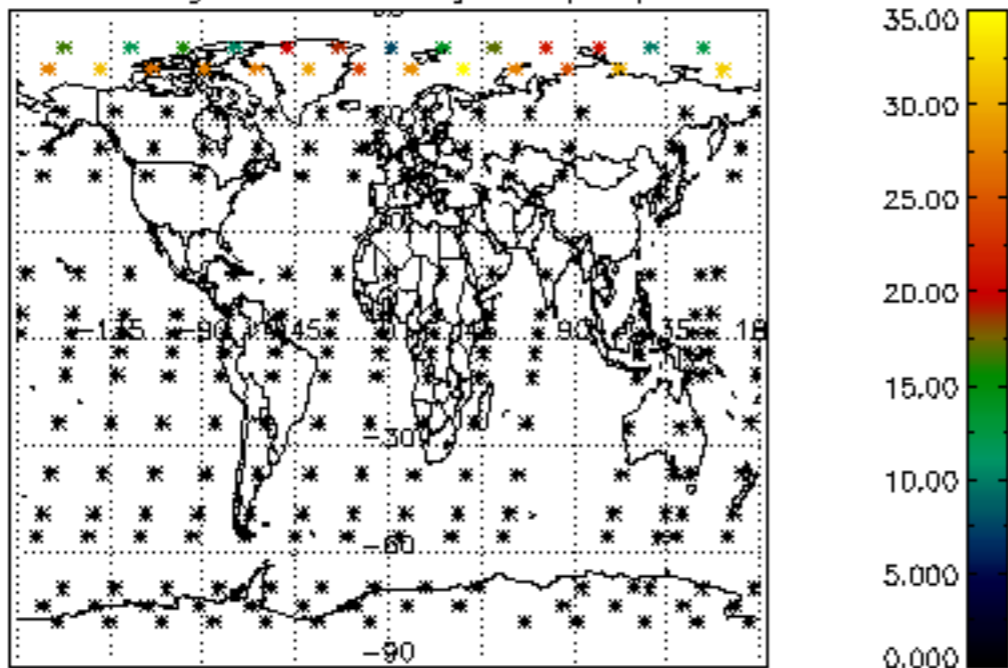
Percentage of star falling outside central band per profile



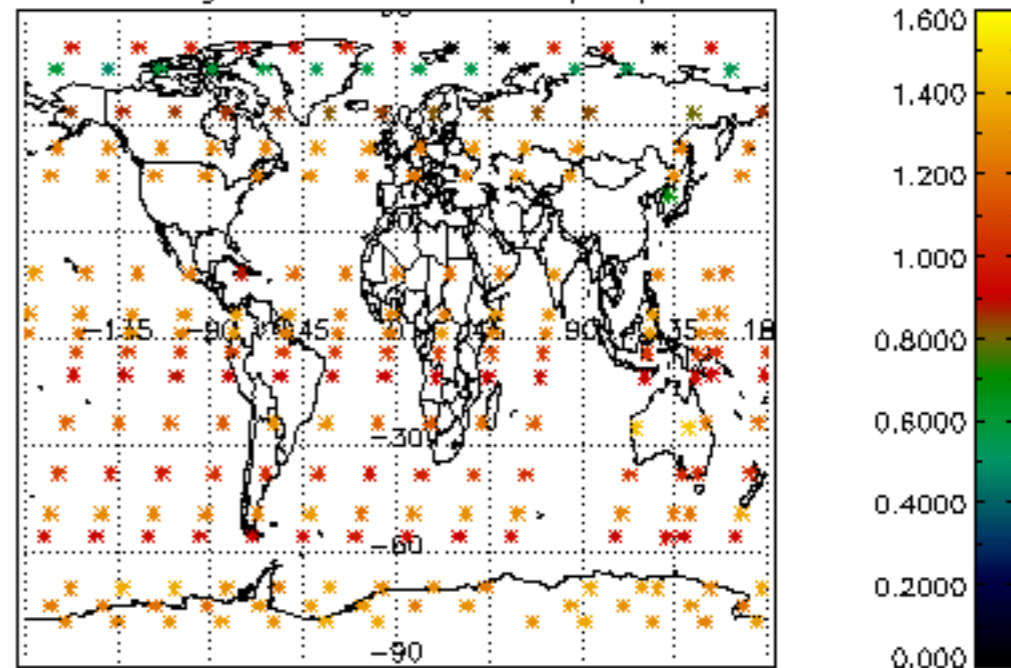
Percentage of saturation errors per profile



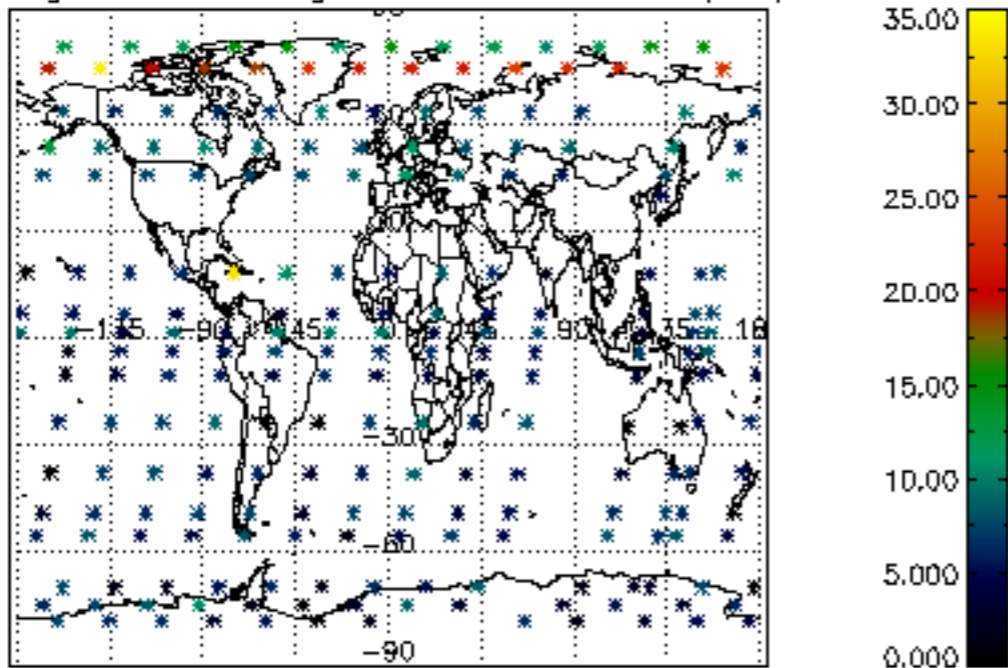
Percentage of cosmic ray hits per profile



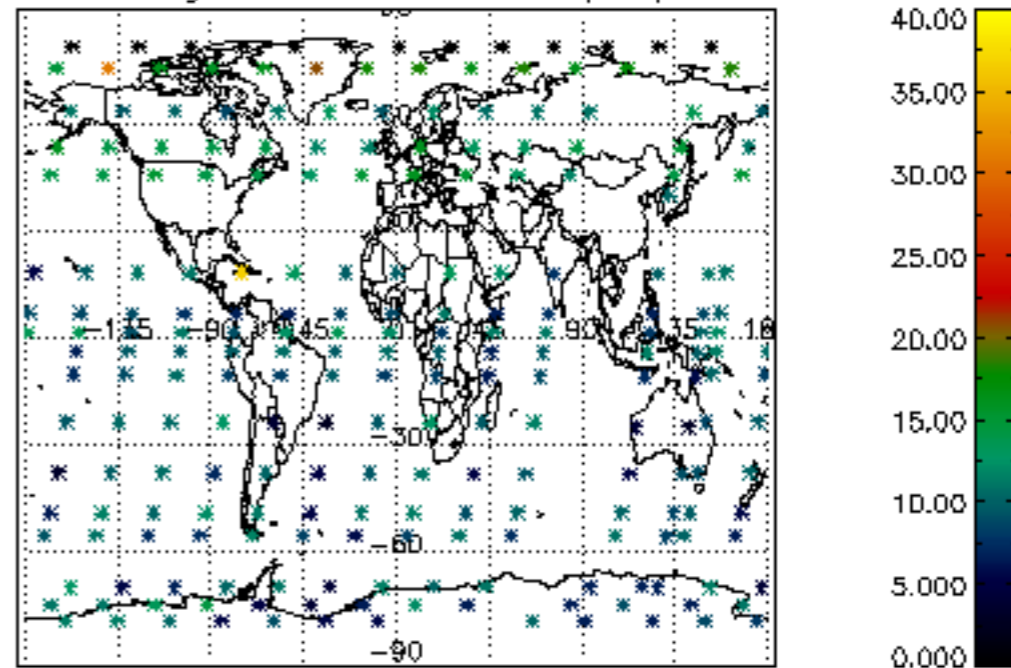
Percentage of datation errors per profile

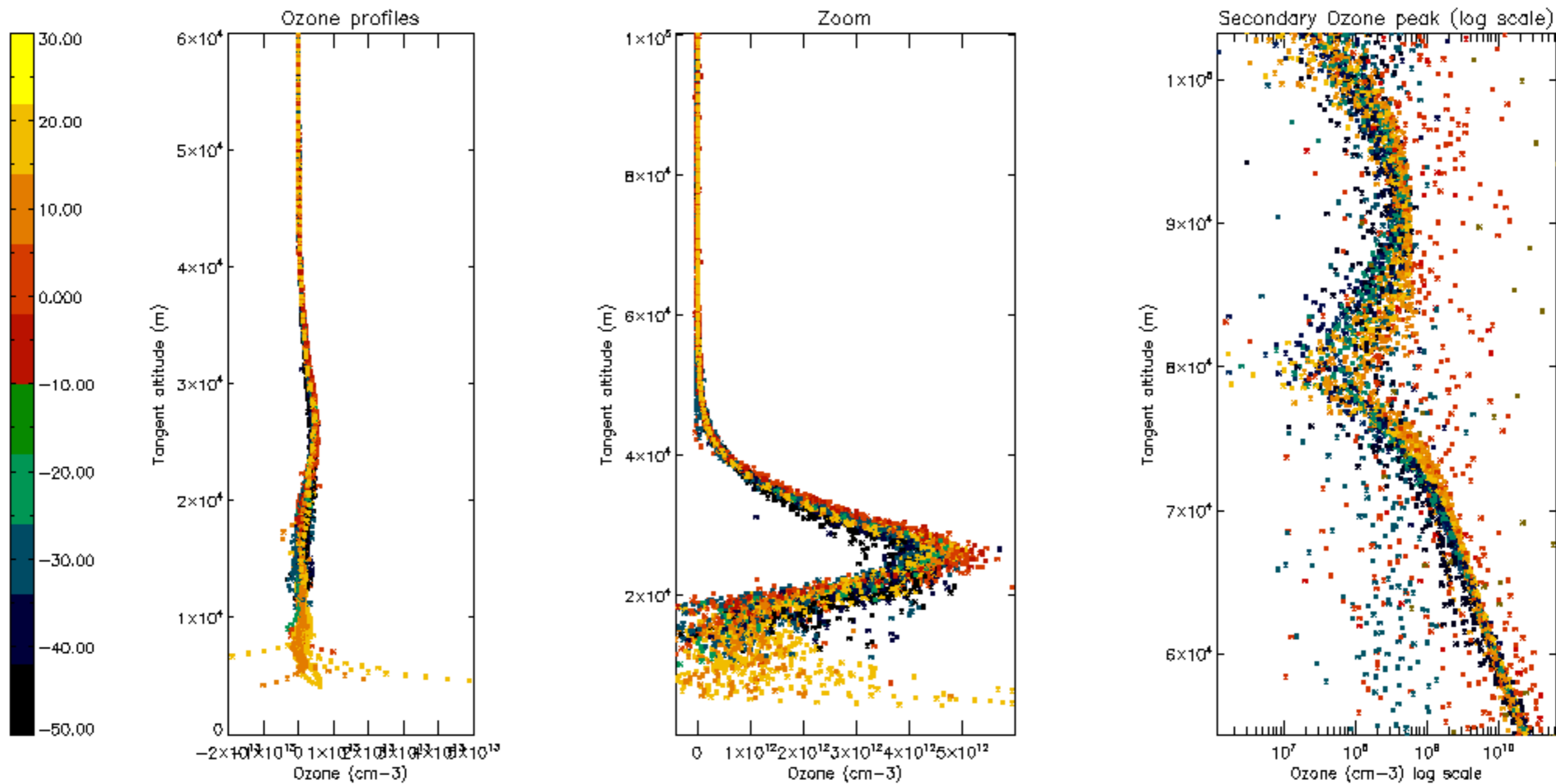


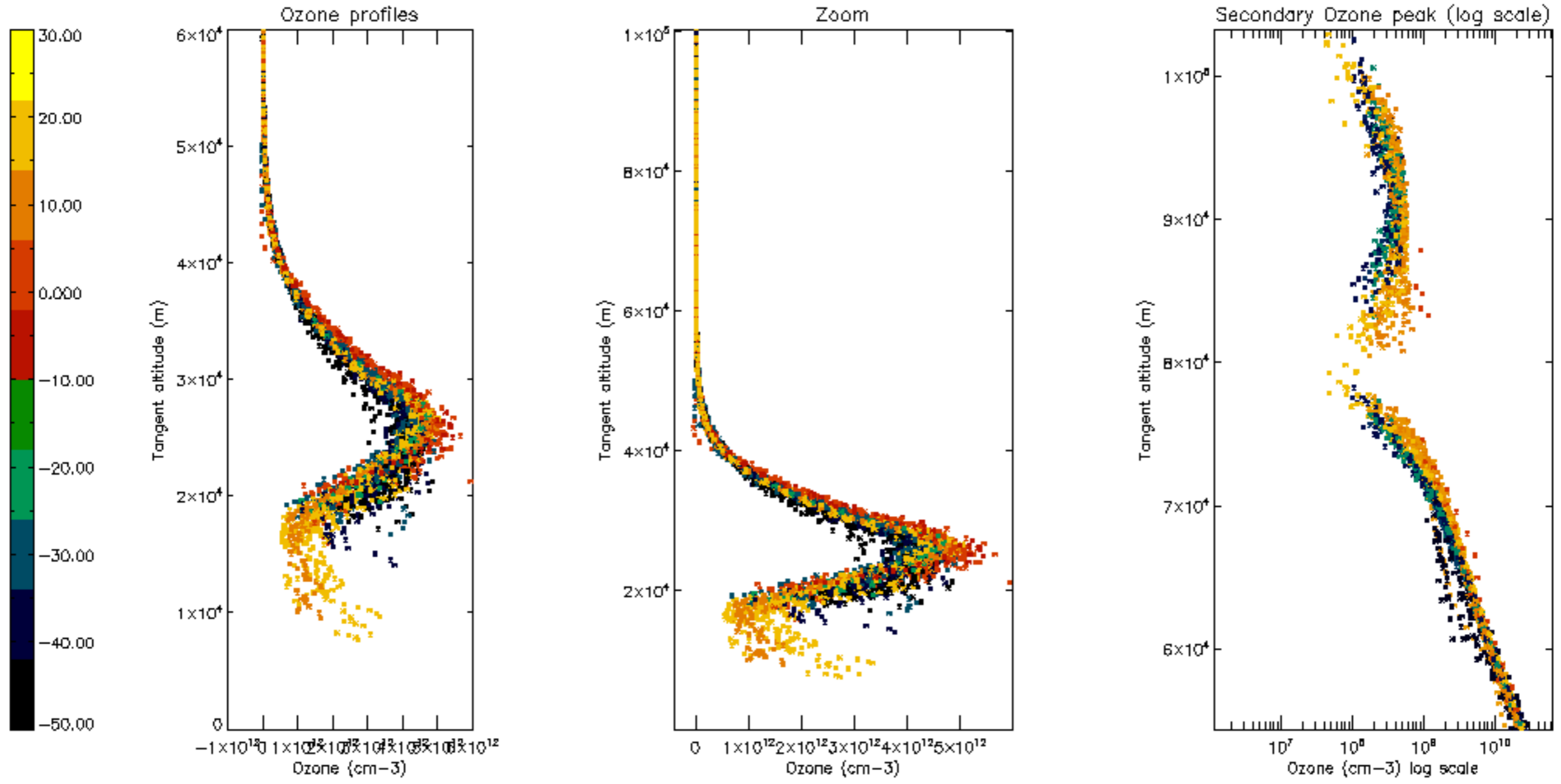
Percentage of star falling outside central band per profile

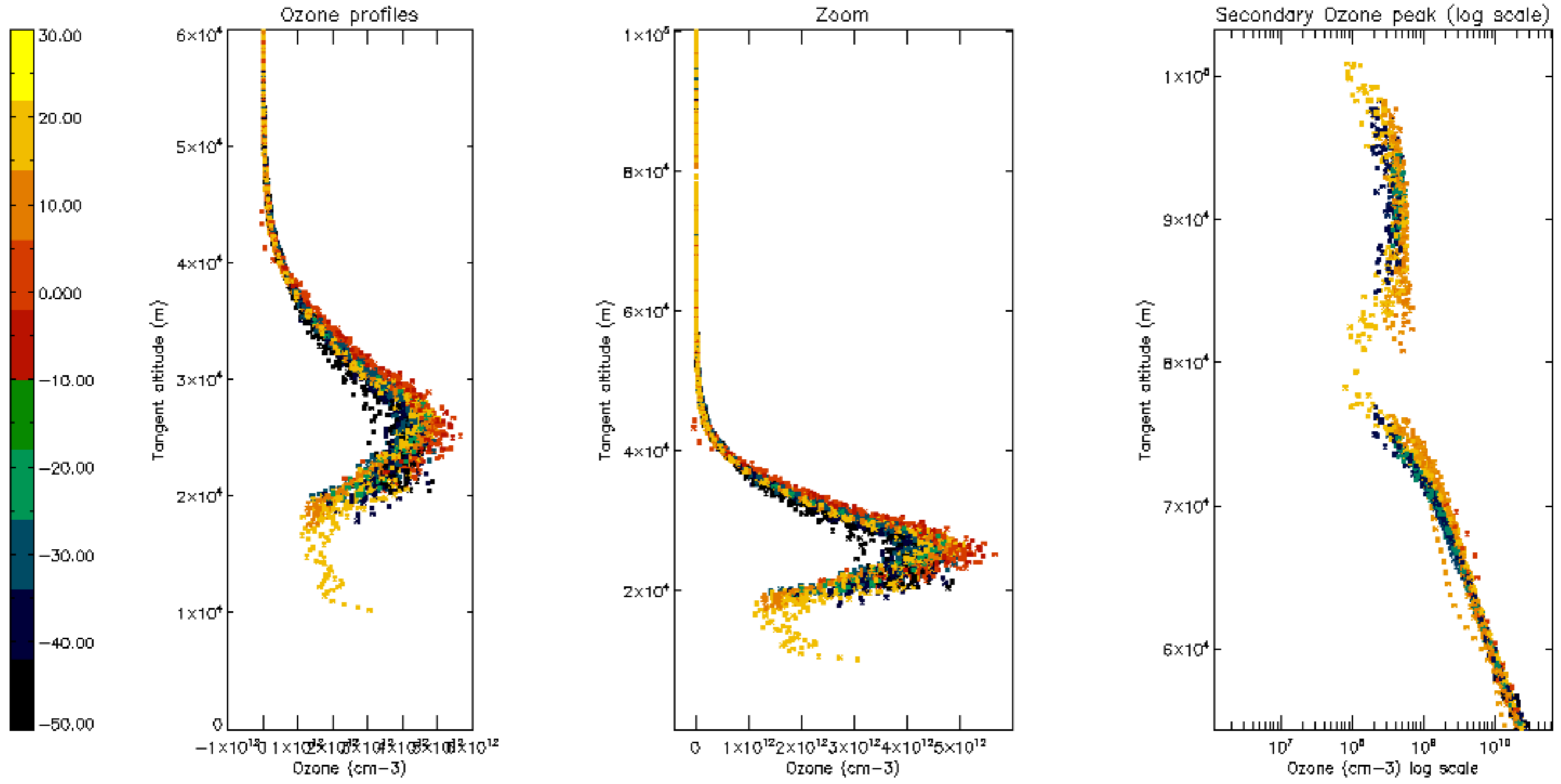


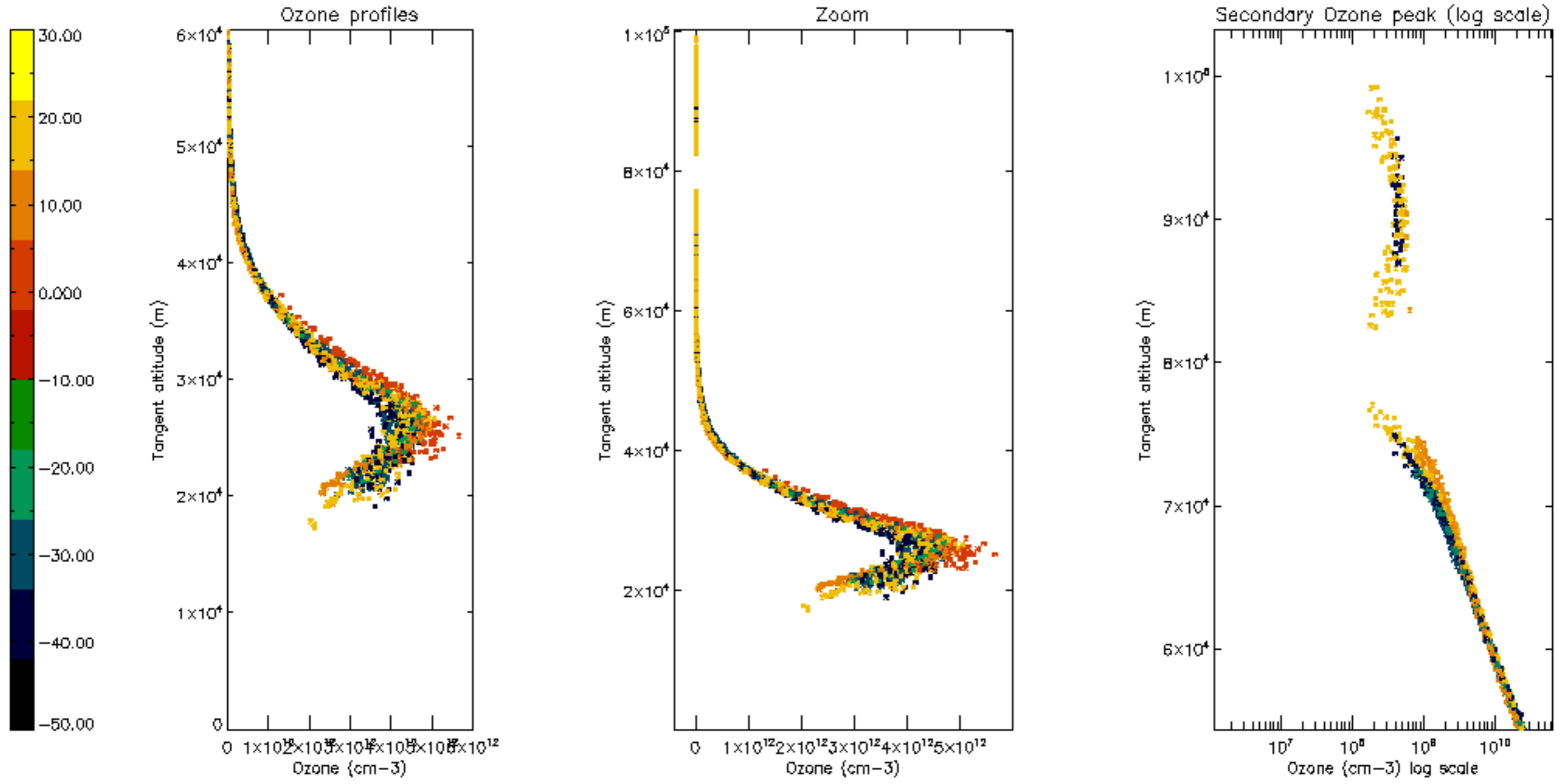
Percentage of saturation errors per profile

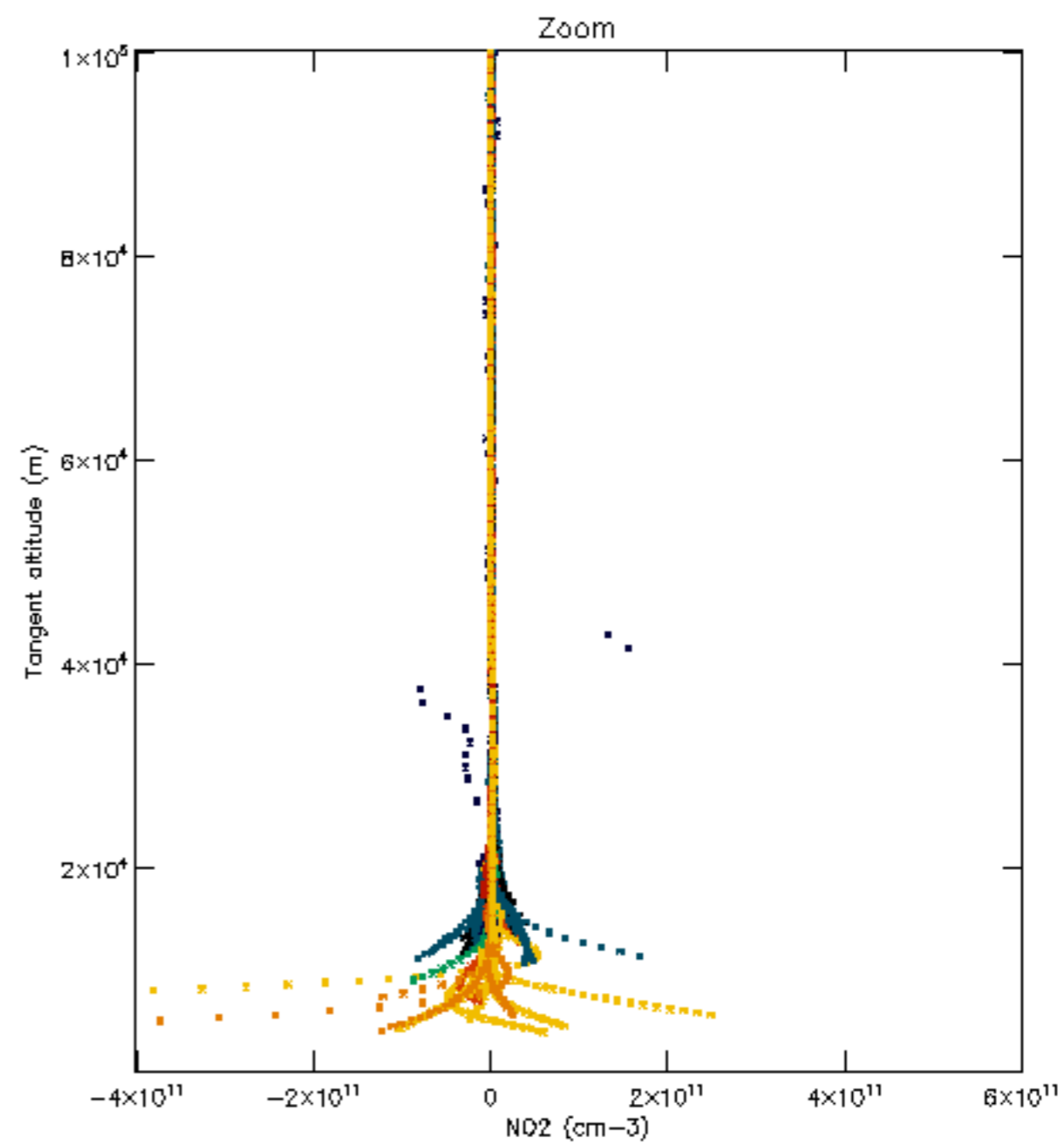
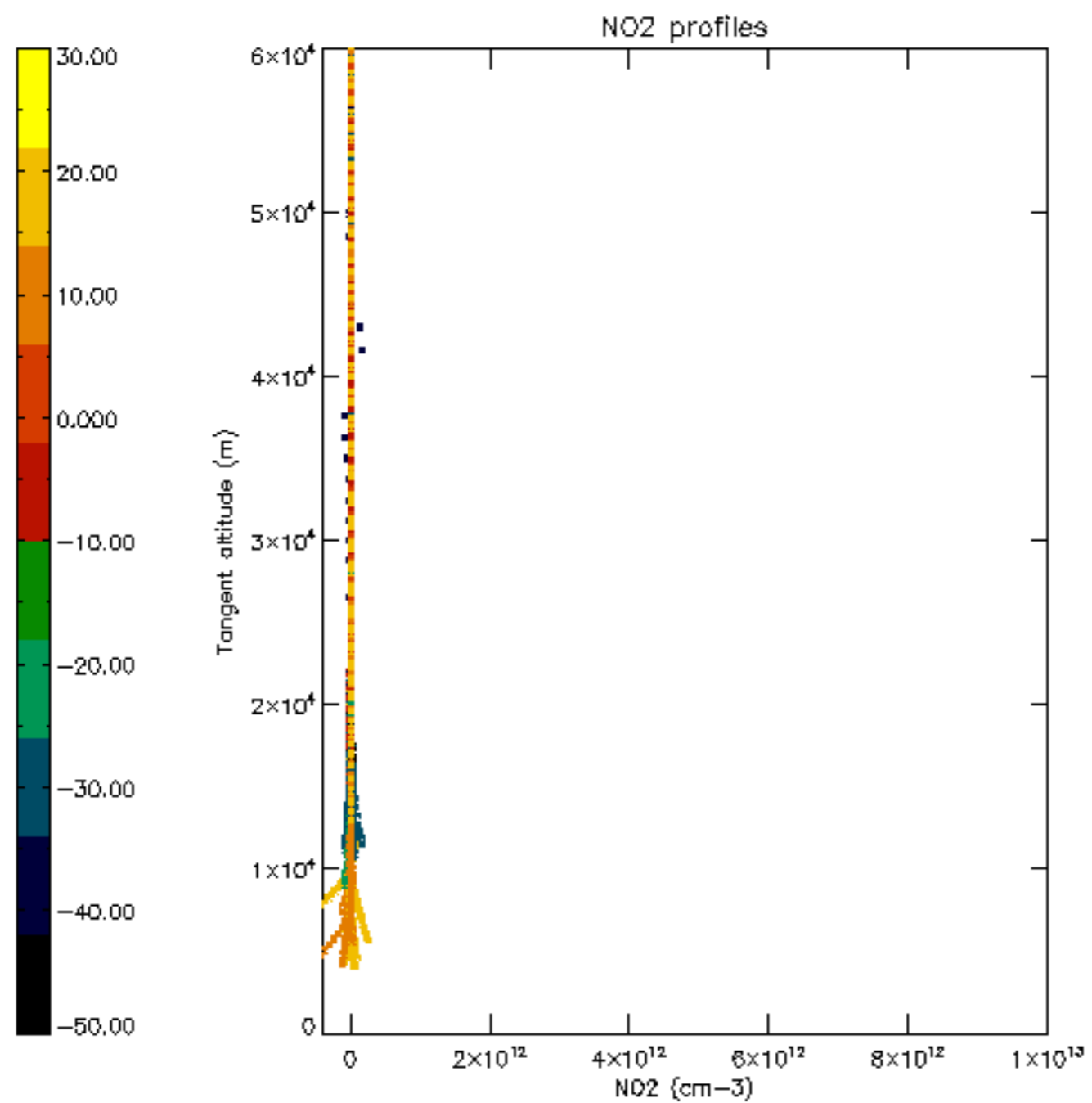


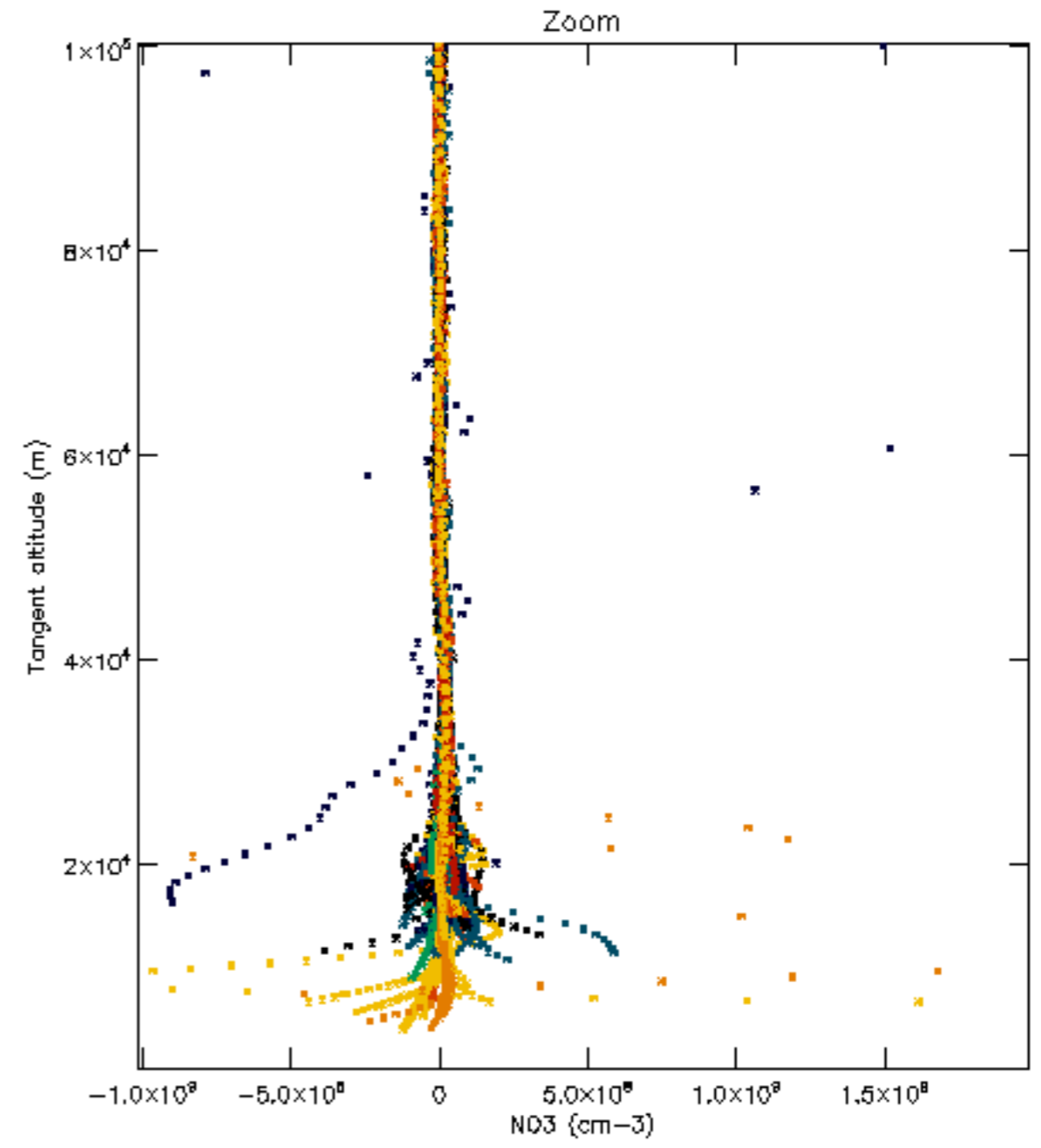
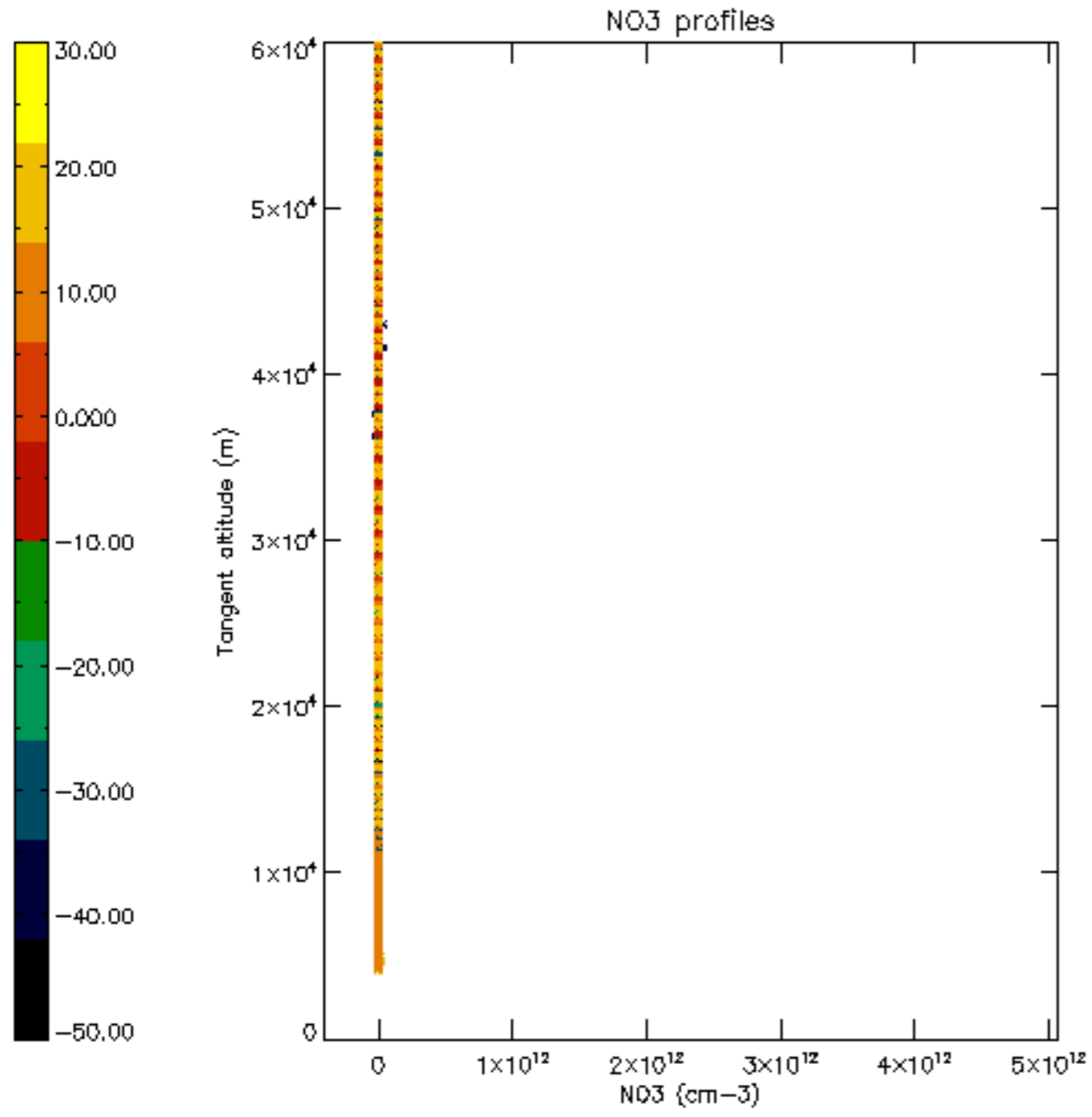


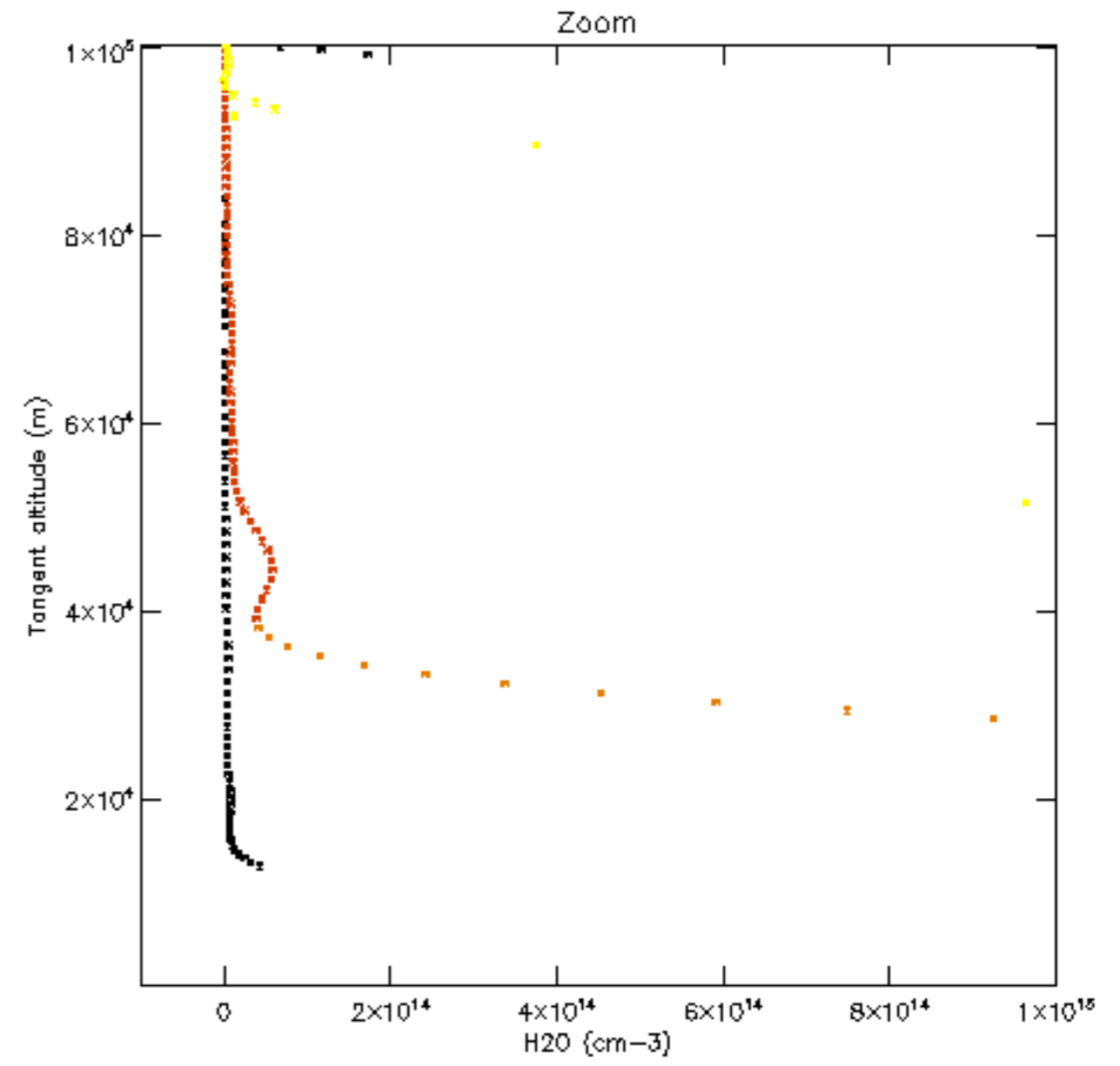
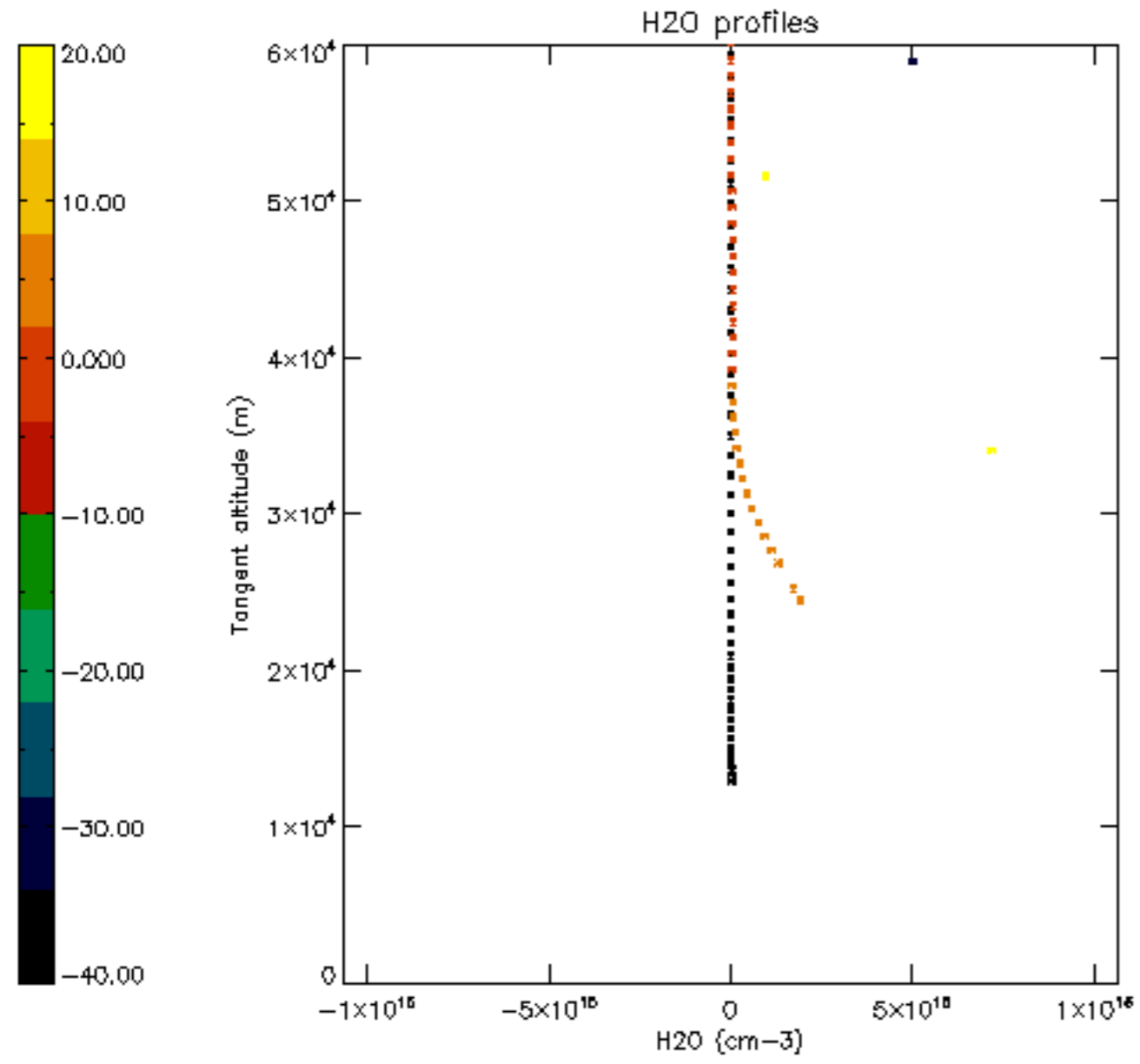


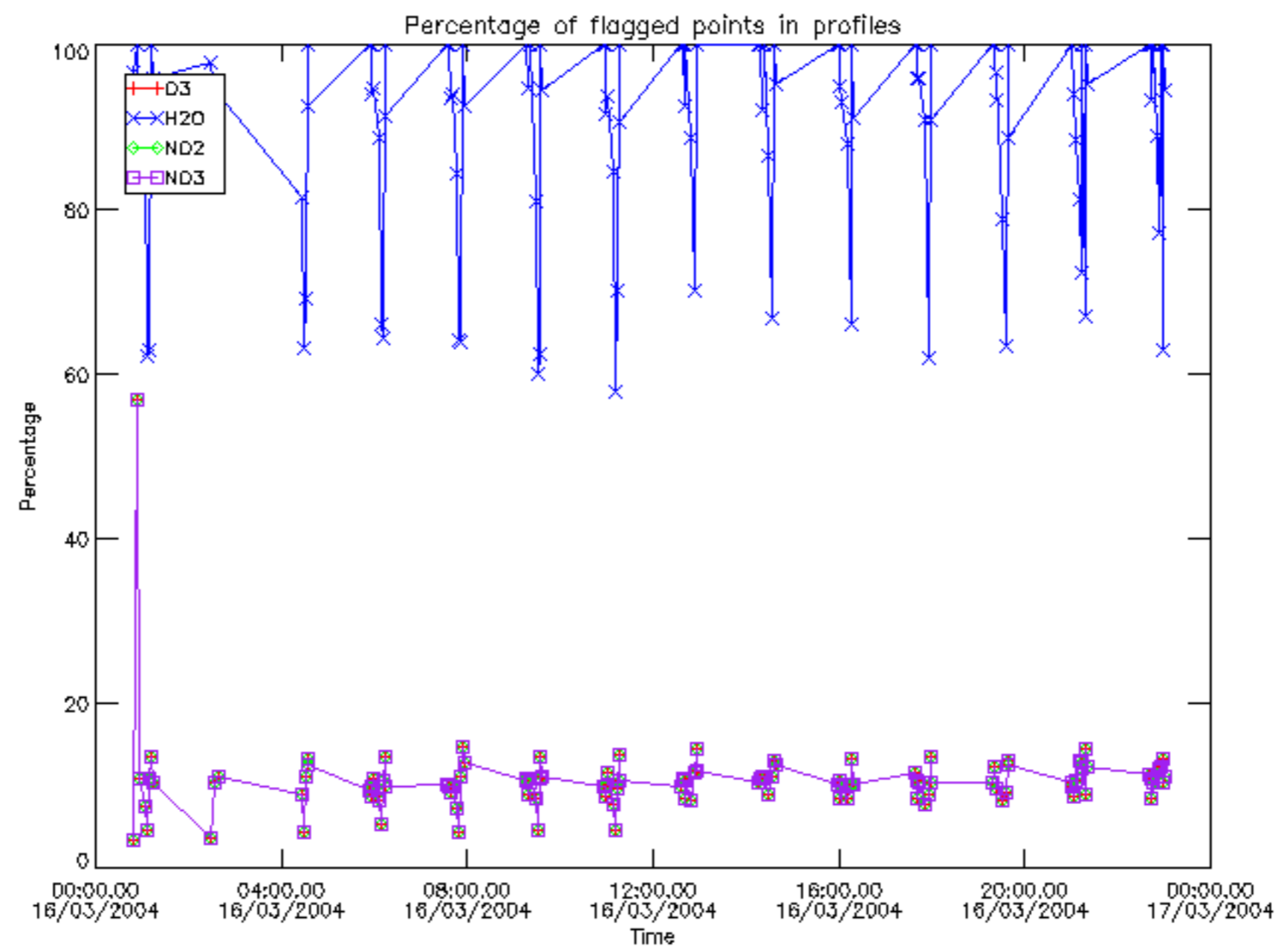




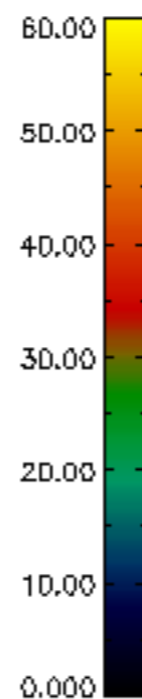
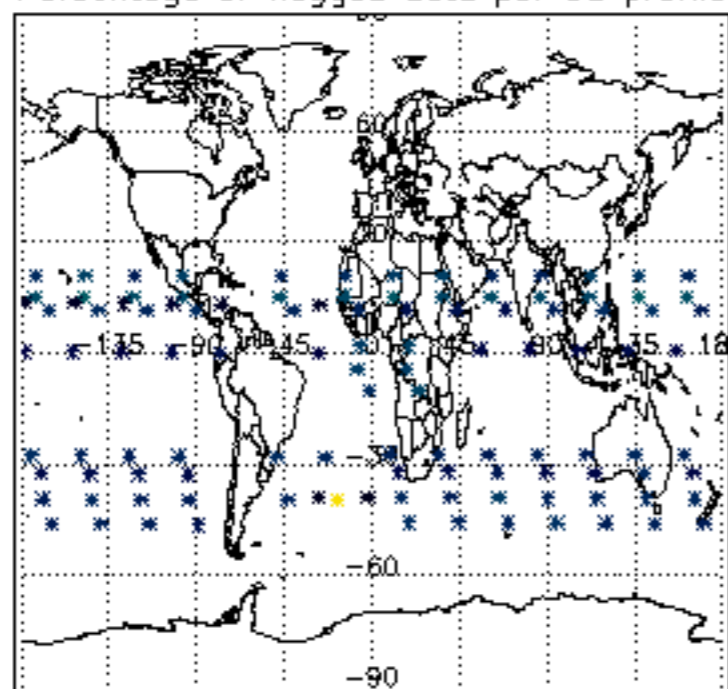




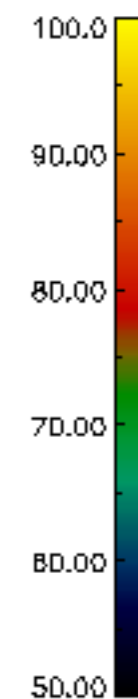
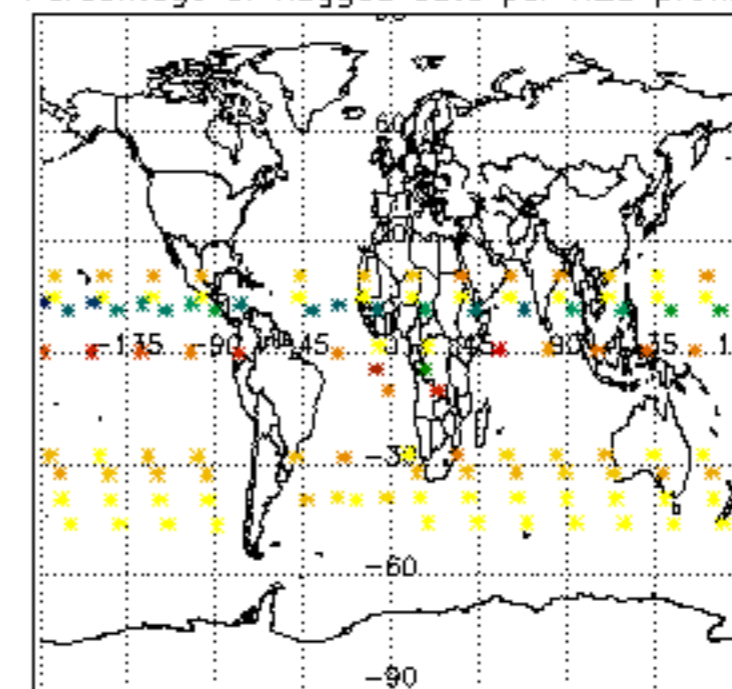




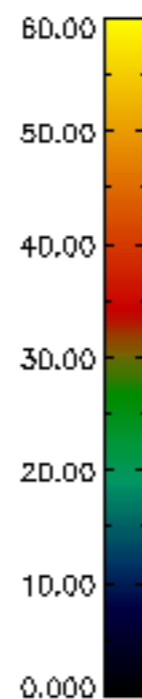
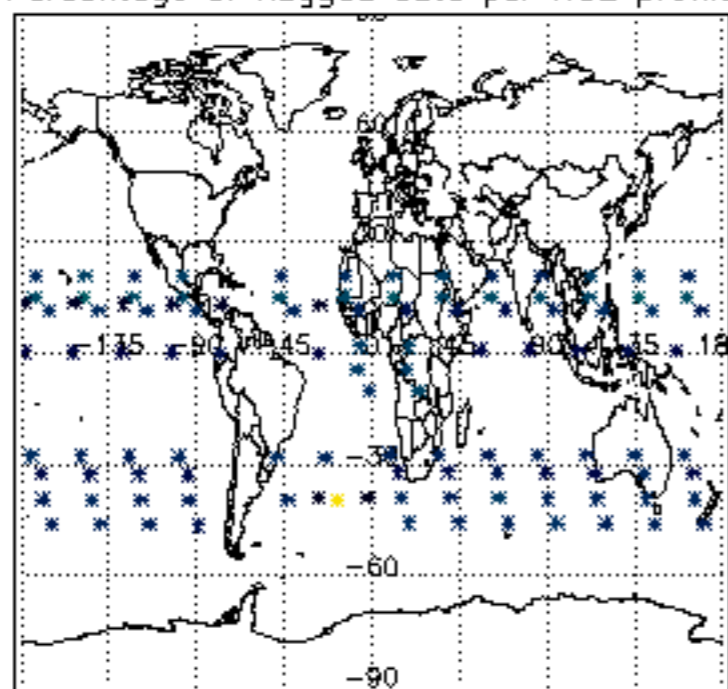
Percentage of flagged data per D3 profile



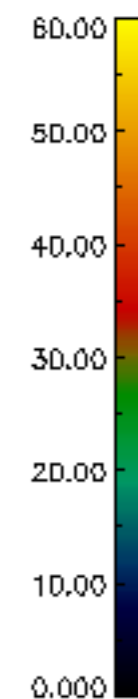
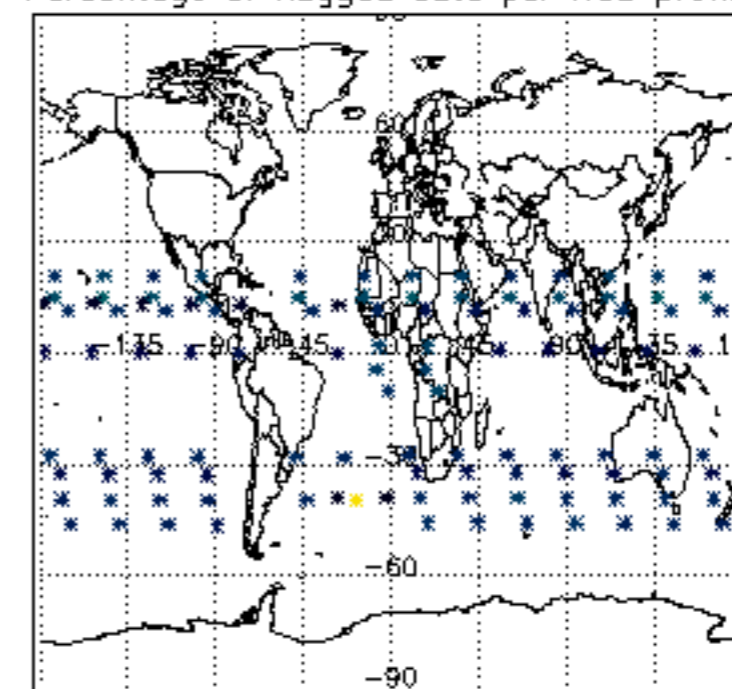
Percentage of flagged data per H2O profile

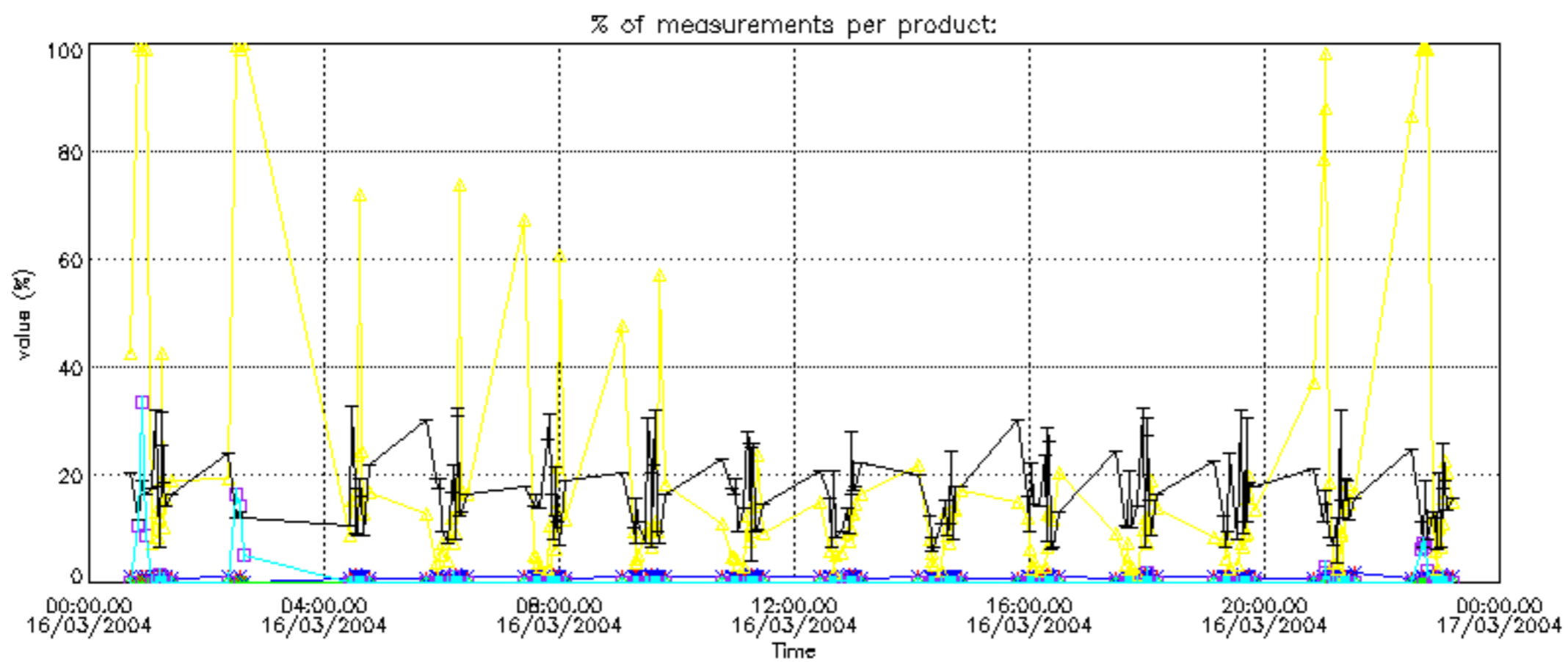
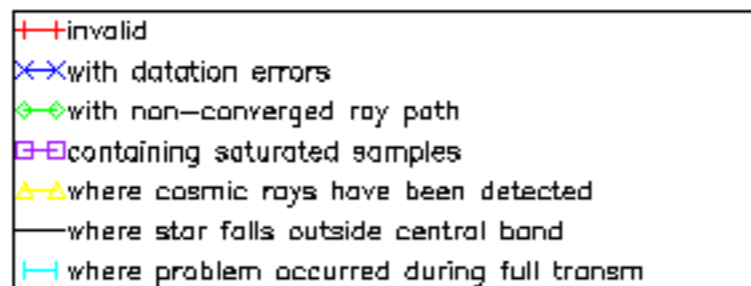


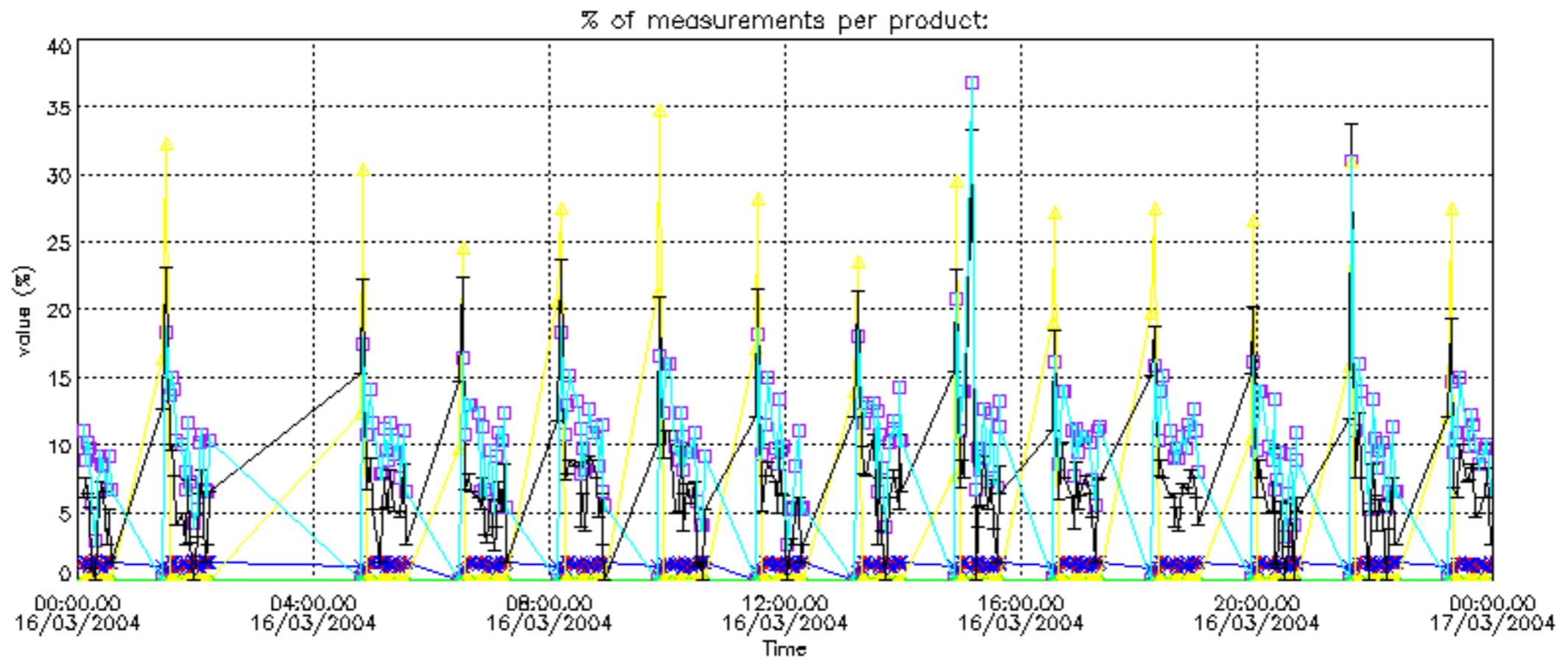
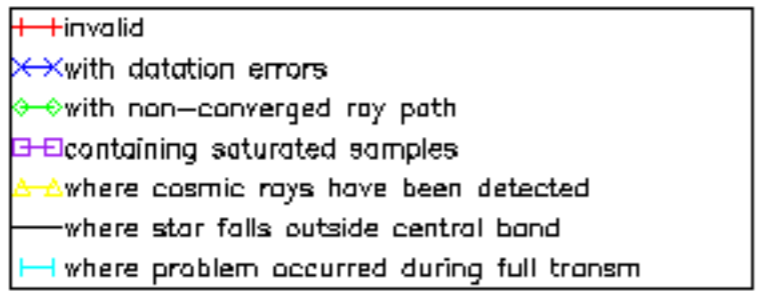
Percentage of flagged data per NO2 profile



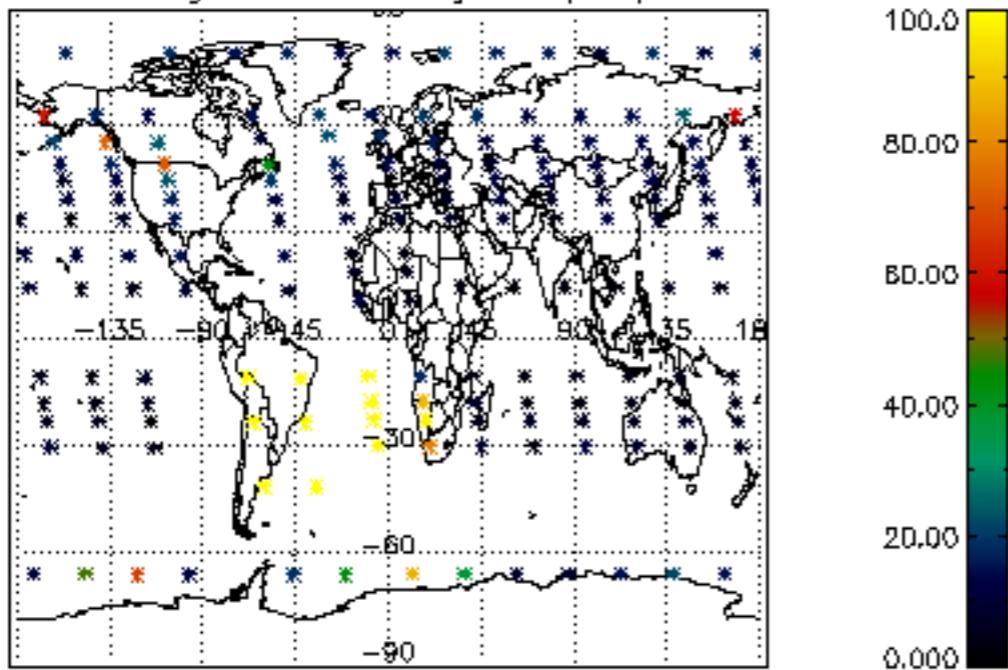
Percentage of flagged data per NO3 profile



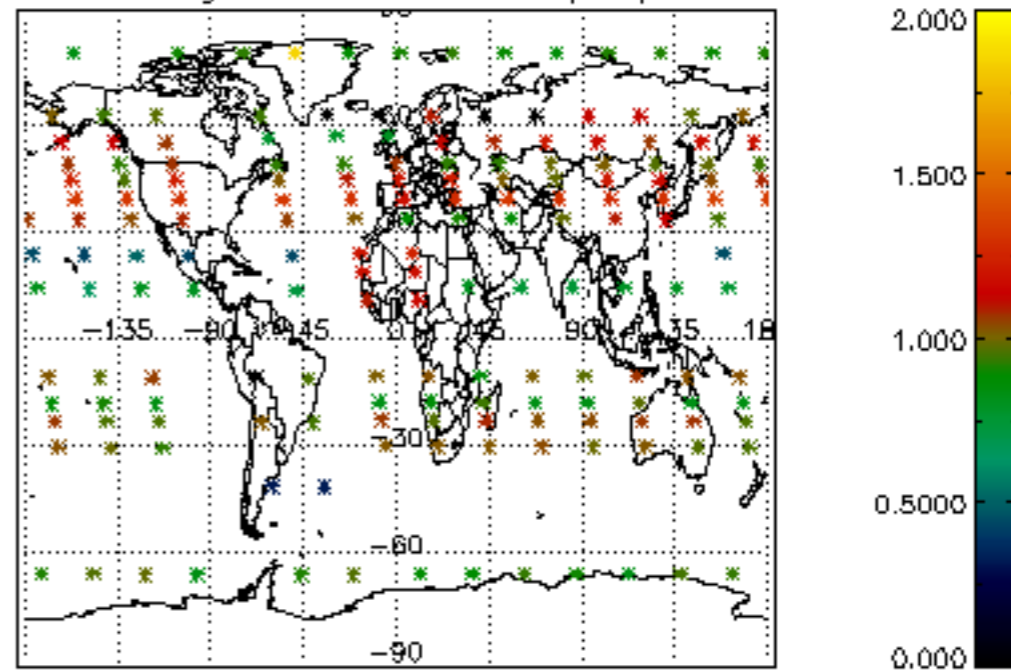




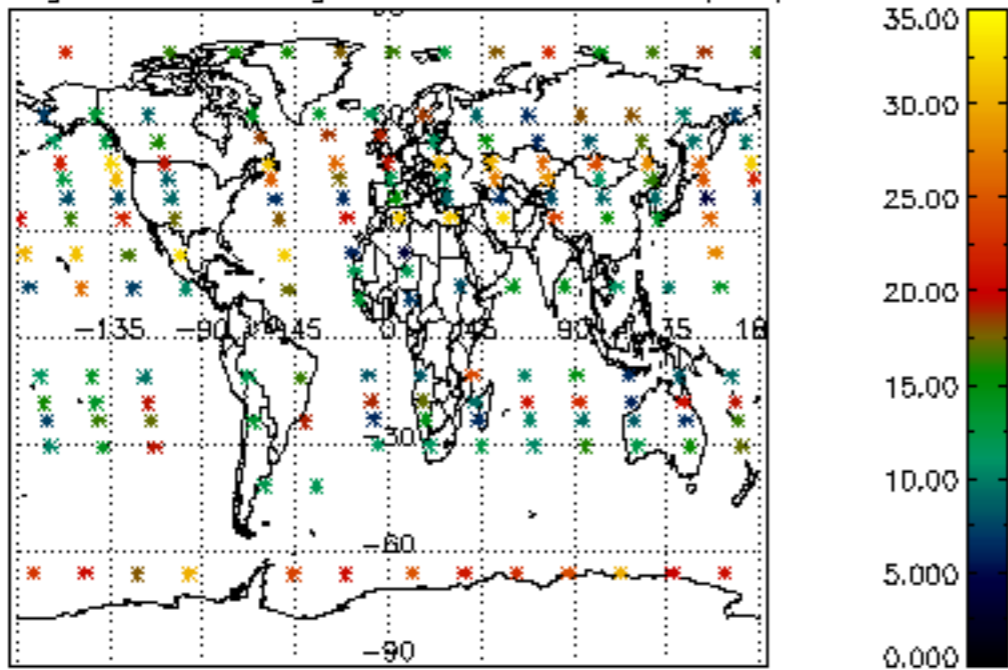
Percentage of cosmic ray hits per profile



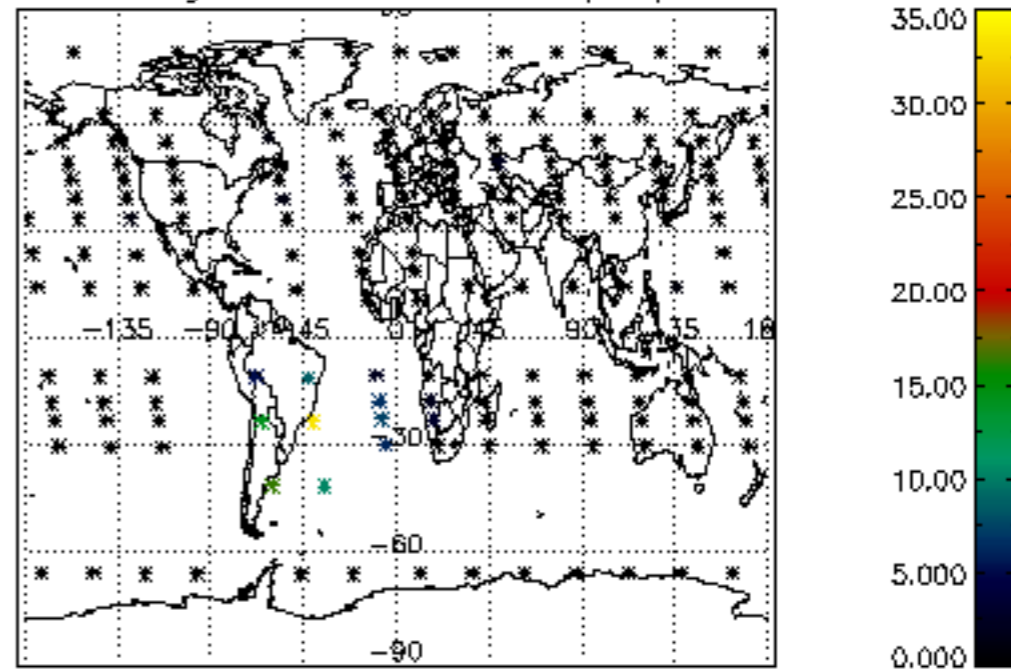
Percentage of datation errors per profile



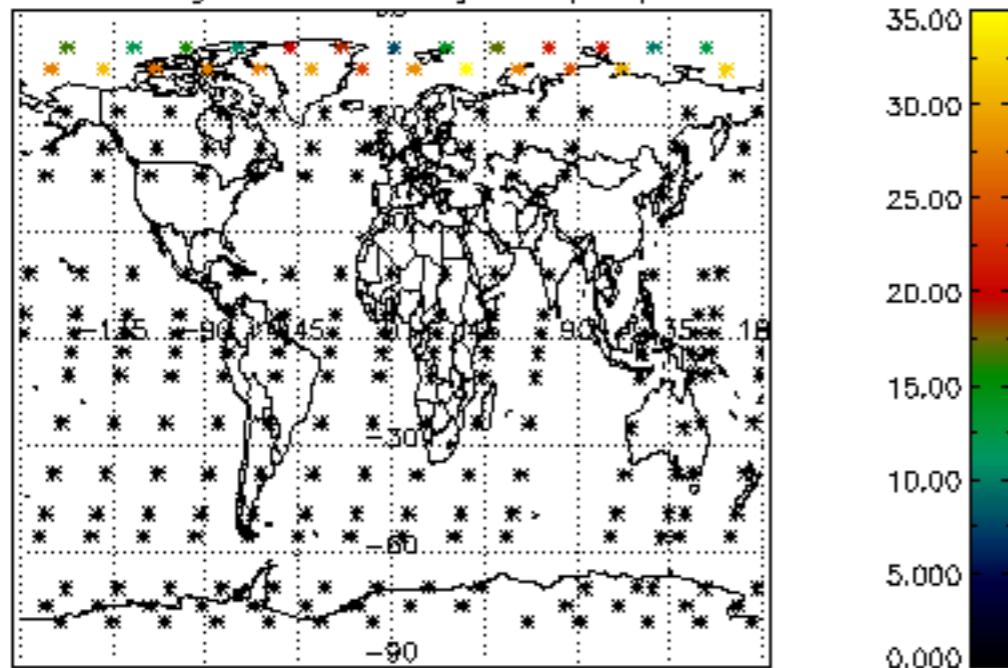
Percentage of star falling outside central band per profile



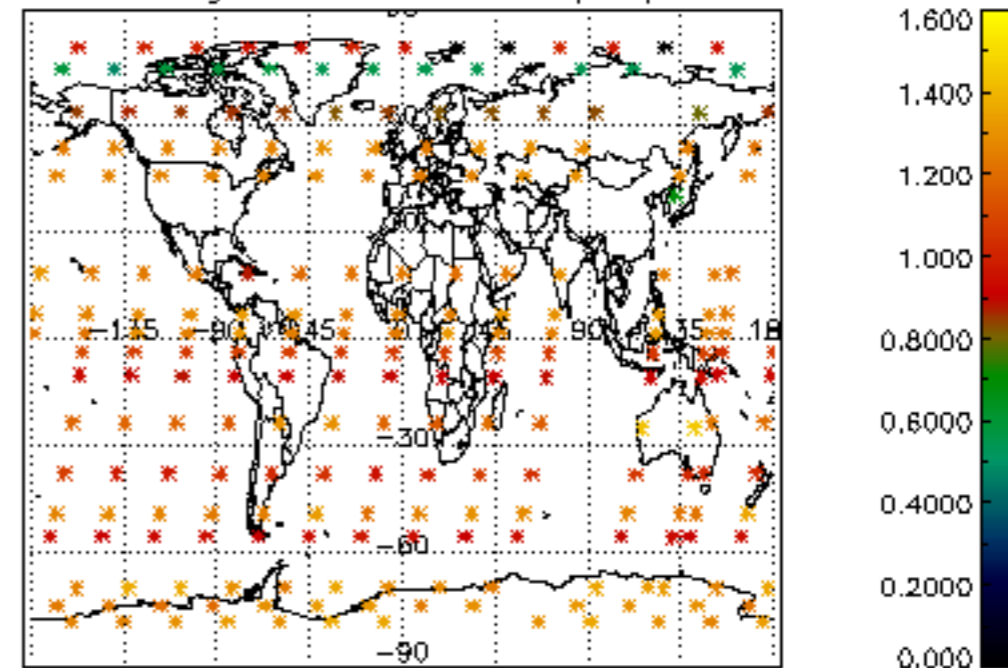
Percentage of saturation errors per profile



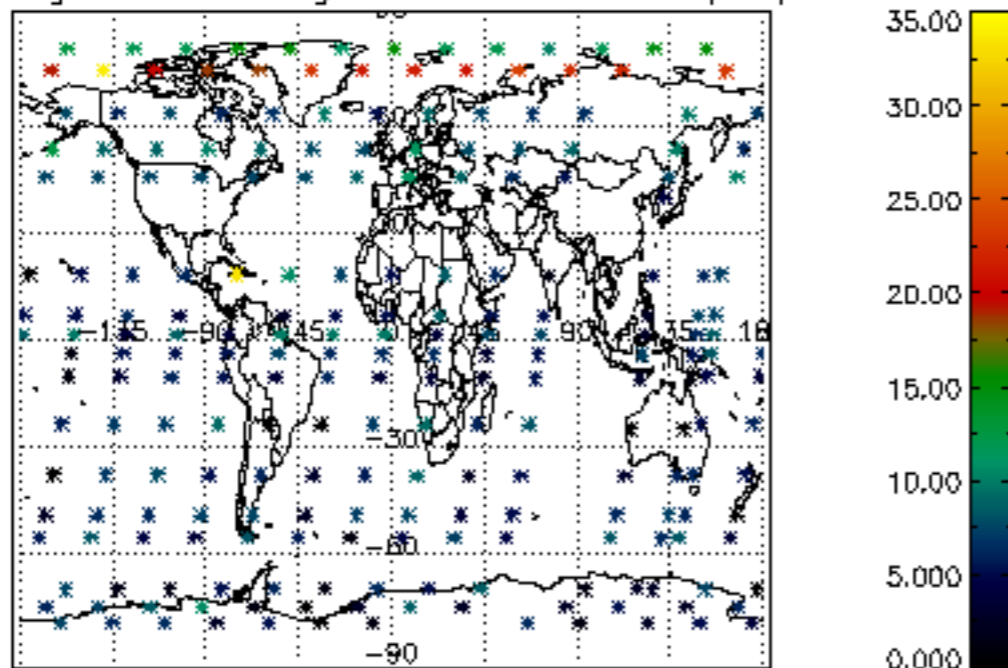
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

