

# GOMOS Level 2 Daily Report

## SUMMARY

### [1. General Info](#)

### [2. Summary of processed GOM\\_NL\\_2P products](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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	25APR2013 18:36:43
Data source version	GOMOS/6.01
Start time of products	09-08-2008 (09AUG2008 00:00:00)
Stop time of products	10-08-2008 (10AUG2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	265
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__2PRFIN20080809_000118_000000332071_00059_33680_4620.N1	09-AUG-2008 00:01:18	Bright	33.000	69	33Gam Dra	2.2310	3800.0	66	33680	No
2	GOM_NL__2PRFIN20080809_001134_000000342071_00059_33680_4621.N1	09-AUG-2008 00:11:34	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	33680	No
3	GOM_NL__2PRFIN20080809_002434_000000422071_00059_33680_4622.N1	09-AUG-2008 00:24:34	Bright	42.000	42	34Bet Aur	1.9000	10200.	84	33680	No
4	GOM_NL__2PRFIN20080809_002654_000000362071_00059_33680_4623.N1	09-AUG-2008 00:26:54	Bright	36.000	107	37The Aur	2.6490	11000.	72	33680	No
5	GOM_NL__2PRFIN20080809_003101_000000422071_00059_33680_4624.N1	09-AUG-2008 00:31:01	Bright	41.500	151	13Mu Gem	2.8900	3000.0	83	33680	No
6	GOM_NL__2PRFIN20080809_003549_000000522071_00059_33680_4625.N1	09-AUG-2008 00:35:49	Dark	51.500	14	58Alp Ori	0.87000	3000.0	103	33680	No
7	GOM_NL__2PRFIN20080809_003847_000000452071_00059_33680_4626.N1	09-AUG-2008 00:38:47	Dark	44.500	30	46Eps Ori	1.6940	30000.	89	33680	No
8	GOM_NL__2PRFIN20080809_004009_000000412071_00059_33680_4627.N1	09-AUG-2008 00:40:09	Dark	41.000	125	44Iot Ori	2.7700	30000.	82	33680	No
9	GOM_NL__2PRFIN20080809_004138_000000372071_00059_33680_4628.N1	09-AUG-2008 00:41:38	Dark	37.000	1	9Alp CMa	-1.4400	11000.	74	33680	No
10	GOM_NL__2PRFIN20080809_004332_000000432071_00059_33680_4629.N1	09-AUG-2008 00:43:32	Dark	42.500	101	11Alp Lep	2.5820	7000.0	85	33680	No
11	GOM_NL__2PRFIN20080809_010120_000000492071_00060_33681_4690.N1	09-AUG-2008 01:01:20	Dark	48.500	9	Alp Eri	0.45300	24000.	97	33681	No
12	GOM_NL__2PRFIN20080809_010737_000000402071_00060_33681_4691.N1	09-AUG-2008 01:07:37	Straylight	39.500	148	Alp Tuc	2.8780	4100.0	79	33681	No
13	GOM_NL__2PRFIN20080809_011008_000000252071_00060_33681_4692.N1	09-AUG-2008 01:10:08	Straylight	25.000	63	Bet Gru	2.1500	2800.0	50	33681	No
14	GOM_NL__2PRFIN20080809_011107_000000442071_00060_33681_4693.N1	09-AUG-2008 01:11:07	Straylight	44.000	31	Alp Gru	1.7340	15200.	88	33681	No
15	GOM_NL__2PRFIN20080809_012909_000000372071_00060_33681_4694.N1	09-AUG-2008 01:29:09	Bright	37.000	11	53Alp Aql	0.76500	8000.0	74	33681	No
16	GOM_NL__2PRFIN20080809_013048_000000352071_00060_33681_4695.N1	09-AUG-2008 01:30:48	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	33681	No
17	GOM_NL__2PRFIN20080809_013756_000000392071_00060_33681_4696.N1	09-AUG-2008 01:37:56	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	33681	No
18	GOM_NL__2PRFIN20080809_013929_000000352071_00060_33681_4697.N1	09-AUG-2008 01:39:29	Bright	34.500	144	18Del Cyg	2.8600	11000.	69	33681	No
19	GOM_NL__2PRFIN20080809_014154_000000372071_00060_33681_4698.N1	09-AUG-2008 01:41:54	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	33681	No
20	GOM_NL__2PRFIN20080809_015210_000000332071_00060_33681_4699.N1	09-AUG-2008 01:52:10	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	33681	No
21	GOM_NL__2PRFIN20080809_020510_000000362071_00060_33681_4700.N1	09-AUG-2008 02:05:10	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	33681	No
22	GOM_NL__2PRFIN20080809_020730_000000372071_00060_33681_4701.N1	09-AUG-2008 02:07:30	Bright	37.000	107	37The Aur	2.6490	11000.	74	33681	No
23	GOM_NL__2PRFIN20080809_021137_000000422071_00060_33681_4702.N1	09-AUG-2008 02:11:37	Bright	42.000	151	13Mu Gem	2.8900	3000.0	84	33681	No
24	GOM_NL__2PRFIN20080809_021626_000000562071_00060_33681_4703.N1	09-AUG-2008 02:16:26	Dark	56.000	14	58Alp Ori	0.87000	3000.0	112	33681	No
25	GOM_NL__2PRFIN20080809_021923_000000422071_00060_33681_4704.N1	09-AUG-2008 02:19:23	Dark	41.500	30	46Eps Ori	1.6940	30000.	83	33681	No
26	GOM_NL__2PRFIN20080809_022046_000000412071_00060_33681_4705.N1	09-AUG-2008 02:20:46	Dark	40.500	125	44Iot Ori	2.7700	30000.	81	33681	No
27	GOM_NL__2PRFIN20080809_022214_000000392071_00060_33681_4706.N1	09-AUG-2008 02:22:14	Dark	38.500	1	9Alp CMa	-1.4400	11000.	77	33681	No
28	GOM_NL__2PRFIN20080809_022408_000000422071_00060_33681_4707.N1	09-AUG-2008 02:24:08	Dark	41.500	101	11Alp Lep	2.5820	7000.0	83	33681	No
29	GOM_NL__2PRFIN20080809_024157_000000452071_00061_33682_4698.N1	09-AUG-2008 02:41:57	Dark	44.500	9	Alp Eri	0.45300	24000.	89	33682	No
30	GOM_NL__2PRFIN20080809_024814_000000482071_00061_33682_4699.N1	09-AUG-2008 02:48:14	Straylight	47.500	148	Alp Tuc	2.8780	4100.0	95	33682	No
31	GOM_NL__2PRFIN20080809_025044_000000292071_00061_33682_4700.N1	09-AUG-2008 02:50:44	Straylight	29.000	63	Bet Gru	2.1500	2800.0	58	33682	No
32	GOM_NL__2PRFIN20080809_025143_000000442071_00061_33682_4701.N1	09-AUG-2008 02:51:43	Straylight	43.500	31	Alp Gru	1.7340	15200.	87	33682	No
33	GOM_NL__2PRFIN20080809_030945_000000352071_00061_33682_4702.N1	09-AUG-2008 03:09:45	Bright	35.000	11	53Alp Aql	0.76500	8000.0	70	33682	No
34	GOM_NL__2PRFIN20080809_031124_000000362071_00061_33682_4703.N1	09-AUG-2008 03:11:24	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	33682	No
35	GOM_NL__2PRFIN20080809_031832_000000352071_00061_33682_4704.N1	09-AUG-2008 03:18:32	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	33682	No
36	GOM_NL__2PRFIN20080809_032005_000000352071_00061_33682_4705.N1	09-AUG-2008 03:20:05	Bright	35.000	144	18Del Cyg	2.8600	11000.	70	33682	No
37	GOM_NL__2PRFIN20080809_032230_000000342071_00061_33682_4706.N1	09-AUG-2008 03:22:30	Bright	34.000	69	33Gam Dra	2.2310	3800.0	68	33682	No
38	GOM_NL__2PRFIN20080809_033246_000000352071_00061_33682_4707.N1	09-AUG-2008 03:32:46	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	33682	No
39	GOM_NL__2PRFIN20080809_034546_000000362071_00061_33682_4708.N1	09-AUG-2008 03:45:46	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	33682	No
40	GOM_NL__2PRFIN20080809_034806_000000362071_00061_33682_4709.N1	09-AUG-2008 03:48:06	Bright	35.500	107	37The Aur	2.6490	11000.	71	33682	No
41	GOM_NL__2PRFIN20080809_035213_000000422071_00061_33682_4710.N1	09-AUG-2008 03:52:13	Bright	42.000	151	13Mu Gem	2.8900	3000.0	84	33682	No
42	GOM_NL__2PRFIN20080809_035702_000000452071_00061_33682_4711.N1	09-AUG-2008 03:57:02	Dark	44.500	14	58Alp Ori	0.87000	3000.0	89	33682	No

43	GOM_NL__2PRFIN20080809_040000_000000412071_00061_33682_4712.N1	09-AUG-2008 04:00:00	Dark	41.000	30	46Eps Ori	1.6940	30000.	82	33682	No
44	GOM_NL__2PRFIN20080809_040122_000000422071_00061_33682_4713.N1	09-AUG-2008 04:01:22	Dark	42.000	125	44Iot Ori	2.7700	30000.	84	33682	No
45	GOM_NL__2PRFIN20080809_040250_000000452071_00061_33682_4714.N1	09-AUG-2008 04:02:50	Dark	44.500	1	9Alp CMa	-1.4400	11000.	89	33682	No
46	GOM_NL__2PRFIN20080809_040444_000000442071_00061_33682_4715.N1	09-AUG-2008 04:04:44	Dark	43.500	101	11Alp Lep	2.5820	7000.0	87	33682	No
47	GOM_NL__2PRFIN20080809_040650_000000392071_00061_33682_4716.N1	09-AUG-2008 04:06:50	Dark	39.000	177	1Zet CMa	3.0220	26000.	78	33682	No
48	GOM_NL__2PRFIN20080809_042233_000000472071_00062_33683_4708.N1	09-AUG-2008 04:22:33	Dark	46.500	9	Alp Eri	0.45300	24000.	93	33683	No
49	GOM_NL__2PRFIN20080809_042850_000000412071_00062_33683_4709.N1	09-AUG-2008 04:28:50	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	33683	No
50	GOM_NL__2PRFIN20080809_043121_000000292071_00062_33683_4710.N1	09-AUG-2008 04:31:21	Straylight	29.000	63	Bet Gru	2.1500	2800.0	58	33683	No
51	GOM_NL__2PRFIN20080809_043219_000000452071_00062_33683_4711.N1	09-AUG-2008 04:32:19	Straylight	45.000	31	Alp Gru	1.7340	15200.	90	33683	No
52	GOM_NL__2PRFIN20080809_045021_000000382071_00062_33683_4712.N1	09-AUG-2008 04:50:21	Bright	37.500	11	53Alp Aql	0.76500	8000.0	75	33683	No
53	GOM_NL__2PRFIN20080809_045201_000000352071_00062_33683_4713.N1	09-AUG-2008 04:52:01	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	33683	No
54	GOM_NL__2PRFIN20080809_045909_000000392071_00062_33683_4714.N1	09-AUG-2008 04:59:09	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	33683	No
55	GOM_NL__2PRFIN20080809_050041_000000352071_00062_33683_4715.N1	09-AUG-2008 05:00:41	Bright	35.000	144	18Del Cyg	2.8600	11000.	70	33683	No
56	GOM_NL__2PRFIN20080809_050306_000000342071_00062_33683_4716.N1	09-AUG-2008 05:03:06	Bright	34.000	69	33Gam Dra	2.2310	3800.0	68	33683	No
57	GOM_NL__2PRFIN20080809_051322_000000362071_00062_33683_4717.N1	09-AUG-2008 05:13:22	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	33683	No
58	GOM_NL__2PRFIN20080809_052622_000000492071_00062_33683_4718.N1	09-AUG-2008 05:26:22	Bright	48.500	42	34Bet Aur	1.9000	10200.	97	33683	No
59	GOM_NL__2PRFIN20080809_052842_000000372071_00062_33683_4719.N1	09-AUG-2008 05:28:42	Bright	36.500	107	37The Aur	2.6490	11000.	73	33683	No
60	GOM_NL__2PRFIN20080809_053249_000000422071_00062_33683_4720.N1	09-AUG-2008 05:32:49	Bright	41.500	151	13Mu Gem	2.8900	3000.0	83	33683	No
61	GOM_NL__2PRFIN20080809_053738_000000412071_00062_33683_4721.N1	09-AUG-2008 05:37:38	Dark	40.500	14	58Alp Ori	0.87000	3000.0	81	33683	No
62	GOM_NL__2PRFIN20080809_054036_000000442071_00062_33683_4722.N1	09-AUG-2008 05:40:36	Dark	44.000	30	46Eps Ori	1.6940	30000.	88	33683	No
63	GOM_NL__2PRFIN20080809_054158_000000442071_00062_33683_4723.N1	09-AUG-2008 05:41:58	Dark	43.500	125	44Iot Ori	2.7700	30000.	87	33683	No
64	GOM_NL__2PRFIN20080809_054326_000000452071_00062_33683_4724.N1	09-AUG-2008 05:43:26	Dark	45.000	1	9Alp CMa	-1.4400	11000.	90	33683	No
65	GOM_NL__2PRFIN20080809_054521_000000442071_00062_33683_4725.N1	09-AUG-2008 05:45:21	Dark	44.000	101	11Alp Lep	2.5820	7000.0	88	33683	No
66	GOM_NL__2PRFIN20080809_054727_000000382071_00062_33683_4726.N1	09-AUG-2008 05:47:27	Dark	38.000	177	1Zet CMa	3.0220	26000.	76	33683	No
67	GOM_NL__2PRFIN20080809_060310_000000432071_00063_33684_4718.N1	09-AUG-2008 06:03:10	Dark	43.000	9	Alp Eri	0.45300	24000.	86	33684	No
68	GOM_NL__2PRFIN20080809_060927_000000392071_00063_33684_4719.N1	09-AUG-2008 06:09:27	Straylight	39.000	148	Alp Tuc	2.8780	4100.0	78	33684	No
69	GOM_NL__2PRFIN20080809_061157_000000332071_00063_33684_4720.N1	09-AUG-2008 06:11:57	Straylight	33.000	63	Bet Gru	2.1500	2800.0	66	33684	No
70	GOM_NL__2PRFIN20080809_061256_000000442071_00063_33684_4721.N1	09-AUG-2008 06:12:56	Straylight	43.500	31	Alp Gru	1.7340	15200.	87	33684	No
71	GOM_NL__2PRFIN20080809_063057_000000362071_00063_33684_4722.N1	09-AUG-2008 06:30:57	Bright	36.000	11	53Alp Aql	0.76500	8000.0	72	33684	No
72	GOM_NL__2PRFIN20080809_063237_000000352071_00063_33684_4723.N1	09-AUG-2008 06:32:37	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	33684	No
73	GOM_NL__2PRFIN20080809_063945_000000382071_00063_33684_4724.N1	09-AUG-2008 06:39:45	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	33684	No
74	GOM_NL__2PRFIN20080809_064116_000000362071_00063_33684_4725.N1	09-AUG-2008 06:41:16	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	33684	No
75	GOM_NL__2PRFIN20080809_064342_000000382071_00063_33684_4726.N1	09-AUG-2008 06:43:42	Bright	38.000	69	33Gam Dra	2.2310	3800.0	76	33684	No
76	GOM_NL__2PRFIN20080809_065358_000000362071_00063_33684_4727.N1	09-AUG-2008 06:53:58	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	33684	No
77	GOM_NL__2PRFIN20080809_070658_000000352071_00063_33684_4728.N1	09-AUG-2008 07:06:58	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	33684	No
78	GOM_NL__2PRFIN20080809_070918_000000372071_00063_33684_4729.N1	09-AUG-2008 07:09:18	Bright	36.500	107	37The Aur	2.6490	11000.	73	33684	No
79	GOM_NL__2PRFIN20080809_071325_000000412071_00063_33684_4730.N1	09-AUG-2008 07:13:25	Bright	40.500	151	13Mu Gem	2.8900	3000.0	81	33684	No
80	GOM_NL__2PRFIN20080809_071815_000000532071_00063_33684_4731.N1	09-AUG-2008 07:18:15	Dark	53.000	14	58Alp Ori	0.87000	3000.0	106	33684	No
81	GOM_NL__2PRFIN20080809_072112_000000472071_00063_33684_4732.N1	09-AUG-2008 07:21:12	Dark	46.500	30	46Eps Ori	1.6940	30000.	93	33684	No
82	GOM_NL__2PRFIN20080809_072235_000000432071_00063_33684_4733.N1	09-AUG-2008 07:22:35	Dark	43.000	125	44Iot Ori	2.7700	30000.	86	33684	No
83	GOM_NL__2PRFIN20080809_072402_000000452071_00063_33684_4734.N1	09-AUG-2008 07:24:02	Dark	45.000	1	9Alp CMa	-1.4400	11000.	90	33684	No
84	GOM_NL__2PRFIN20080809_072557_000000422071_00063_33684_4735.N1	09-AUG-2008 07:25:57	Dark	41.500	101	11Alp Lep	2.5820	7000.0	83	33684	No
85	GOM_NL__2PRFIN20080809_072803_000000382071_00063_33684_4736.N1	09-AUG-2008 07:28:03	Dark	37.500	177	1Zet CMa	3.0220	26000.	75	33684	No
86	GOM_NL__2PRFIN20080809_074346_000000422071_00064_33685_4723.N1	09-AUG-2008 07:43:46	Dark	42.000	9	Alp Eri	0.45300	24000.	84	33685	No
87	GOM_NL__2PRFIN20080809_075003_000000402071_00064_33685_4724.N1	09-AUG-2008 07:50:03	Straylight	39.500	148	Alp Tuc	2.8780	4100.0	79	33685	No
88	GOM_NL__2PRFIN20080809_075234_000000332071_00064_33685_4725.N1	09-AUG-2008 07:52:34	Straylight	33.000	63	Bet Gru	2.1500	2800.0	66	33685	No
89	GOM_NL__2PRFIN20080809_075332_000000452071_00064_33685_4726.N1	09-AUG-2008 07:53:32	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	33685	No
90	GOM_NL__2PRFIN20080809_081133_000000372071_00064_33685_4727.N1	09-AUG-2008 08:11:33	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	33685	No
91	GOM_NL__2PRFIN20080809_081313_000000352071_00064_33685_4728.N1	09-AUG-2008 08:13:13	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	33685	No
92	GOM_NL__2PRFIN20080809_082021_000000392071_00064_33685_4729.N1	09-AUG-2008 08:20:21	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	33685	No
93	GOM_NL__2PRFIN20080809_082152_000000362071_00064_33685_4730.N1	09-AUG-2008 08:21:52	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	33685	No
94	GOM_NL__2PRFIN20080809_082419_000000392071_00064_33685_4731.N1	09-AUG-2008 08:24:19	Bright	39.000	69	33Gam Dra	2.2310	3800.0	78	33685	No
95	GOM_NL__2PRFIN20080809_083434_000000352071_00064_33685_4732.N1	09-AUG-2008 08:34:34	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	33685	No
96	GOM_NL__2PRFIN20080809_084734_000000352071_00064_33685_4733.N1	09-AUG-2008 08:47:34	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	33685	No
97	GOM_NL__2PRFIN20080809_084954_000000552071_00064_33685_4734.N1	09-AUG-2008 08:49:54	Bright	55.000	107	37The Aur	2.6490	11000.	110	33685	No
98	GOM_NL__2PRFIN20080809_085401_000000402071_00064_33685_4735.N1	09-AUG-2008 08:54:01	Bright	40.000	151	13Mu Gem	2.8900	3000.0	80	33685	No
99	GOM_NL__2PRFIN20080809_085851_000000522071_00064_33685_4736.N1	09-AUG-2008 08:58:51	Dark	51.500	14	58Alp Ori	0.87000	3000.0	103	33685	No
100	GOM_NL__2PRFIN20080809_090149_000000472071_00064_33685_4737.N1	09-AUG-2008 09:01:49	Dark	46.500	30	46Eps Ori	1.6940	30000.	93	33685	No
101	GOM_NL__2PRFIN20080809_090311_000000432071_00064_33685_4738.N1	09-AUG-2008 09:03:11	Dark	42.500	125	44Iot Ori	2.7700	30000.	85	33685	No



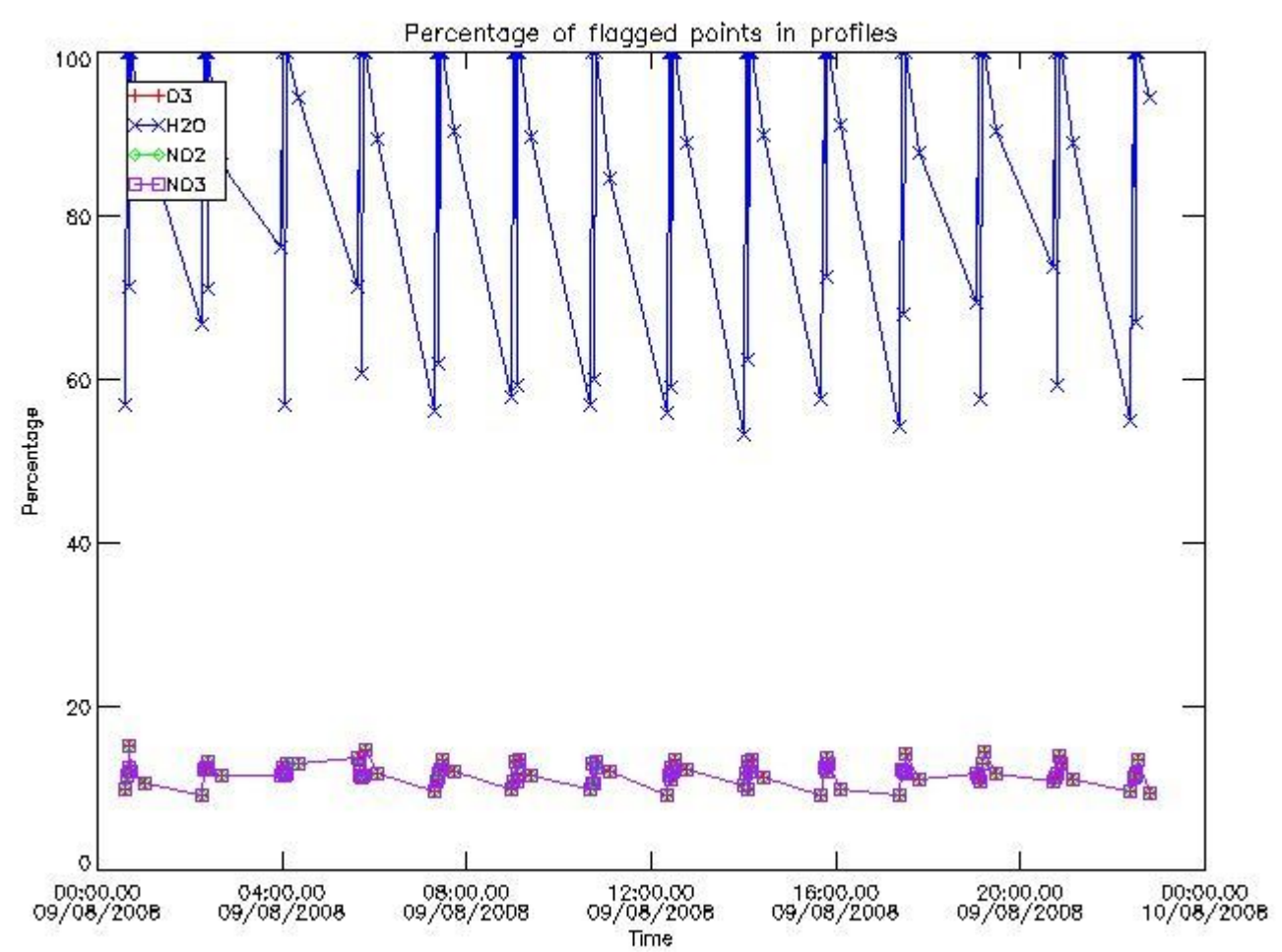


220	GOM_NL__2PRFIN20080809_194049_000000412071_00071_33692_4868.N1	09-AUG-2008 19:40:49	Straylight	41.000	172	Gam Gru	3.0030	13100.	82	33692	No
221	GOM_NL__2PRFIN20080809_195544_000000362071_00071_33692_4869.N1	09-AUG-2008 19:55:44	Bright	35.500	11	53Alp Aql	0.76500	8000.0	71	33692	No
222	GOM_NL__2PRFIN20080809_195726_000000352071_00071_33692_4870.N1	09-AUG-2008 19:57:26	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	33692	No
223	GOM_NL__2PRFIN20080809_200434_000000352071_00071_33692_4871.N1	09-AUG-2008 20:04:34	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	33692	No
224	GOM_NL__2PRFIN20080809_200603_000000352071_00071_33692_4872.N1	09-AUG-2008 20:06:03	Bright	35.000	144	18Del Cyg	2.8600	11000.	70	33692	No
225	GOM_NL__2PRFIN20080809_200832_000000382071_00071_33692_4873.N1	09-AUG-2008 20:08:32	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	33692	No
226	GOM_NL__2PRFIN20080809_201846_000000362071_00071_33692_4874.N1	09-AUG-2008 20:18:46	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	33692	No
227	GOM_NL__2PRFIN20080809_203146_000000382071_00071_33692_4875.N1	09-AUG-2008 20:31:46	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	33692	No
228	GOM_NL__2PRFIN20080809_203406_000000372071_00071_33692_4876.N1	09-AUG-2008 20:34:06	Bright	36.500	107	37The Aur	2.6490	11000.	73	33692	No
229	GOM_NL__2PRFIN20080809_203814_000000452071_00071_33692_4877.N1	09-AUG-2008 20:38:14	Bright	45.000	151	13Mu Gem	2.8900	3000.0	90	33692	No
230	GOM_NL__2PRFIN20080809_204305_000000522071_00071_33692_4878.N1	09-AUG-2008 20:43:05	Dark	52.000	14	58Alp Ori	0.87000	3000.0	104	33692	No
231	GOM_NL__2PRFIN20080809_204604_000000452071_00071_33692_4879.N1	09-AUG-2008 20:46:04	Dark	45.000	30	46Eps Ori	1.6940	30000.	90	33692	No
232	GOM_NL__2PRFIN20080809_204852_000000442071_00071_33692_4880.N1	09-AUG-2008 20:48:52	Dark	43.500	1	9Alp CMa	-1.4400	11000.	87	33692	No
233	GOM_NL__2PRFIN20080809_205049_000000442071_00071_33692_4881.N1	09-AUG-2008 20:50:49	Dark	43.500	101	11Alp Lep	2.5820	7000.0	87	33692	No
234	GOM_NL__2PRFIN20080809_205253_000000392071_00071_33692_4882.N1	09-AUG-2008 20:52:53	Dark	39.000	177	1Zet CMa	3.0220	26000.	78	33692	No
235	GOM_NL__2PRFIN20080809_210840_000000462071_00072_33693_4815.N1	09-AUG-2008 21:08:40	Dark	46.000	9	Alp Eri	0.45300	24000.	92	33693	No
236	GOM_NL__2PRFIN20080809_211453_000000472071_00072_33693_4816.N1	09-AUG-2008 21:14:53	Straylight	47.000	148	Alp Tuc	2.8780	4100.0	94	33693	No
237	GOM_NL__2PRFIN20080809_211823_000000422071_00072_33693_4817.N1	09-AUG-2008 21:18:23	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	33693	No
238	GOM_NL__2PRFIN20080809_212126_000000412071_00072_33693_4818.N1	09-AUG-2008 21:21:26	Straylight	41.000	172	Gam Gru	3.0030	13100.	82	33693	No
239	GOM_NL__2PRFIN20080809_213620_000000362071_00072_33693_4819.N1	09-AUG-2008 21:36:20	Bright	36.000	11	53Alp Aql	0.76500	8000.0	72	33693	No
240	GOM_NL__2PRFIN20080809_213802_000000352071_00072_33693_4820.N1	09-AUG-2008 21:38:02	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	33693	No
241	GOM_NL__2PRFIN20080809_214510_000000362071_00072_33693_4821.N1	09-AUG-2008 21:45:10	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	33693	No
242	GOM_NL__2PRFIN20080809_214639_000000362071_00072_33693_4822.N1	09-AUG-2008 21:46:39	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	33693	No
243	GOM_NL__2PRFIN20080809_214908_000000342071_00072_33693_4823.N1	09-AUG-2008 21:49:08	Bright	34.000	69	33Gam Dra	2.2310	3800.0	68	33693	No
244	GOM_NL__2PRFIN20080809_215921_000000382071_00072_33693_4824.N1	09-AUG-2008 21:59:21	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	33693	No
245	GOM_NL__2PRFIN20080809_221222_000000552071_00072_33693_4825.N1	09-AUG-2008 22:12:22	Bright	55.000	42	34Bet Aur	1.9000	10200.	110	33693	No
246	GOM_NL__2PRFIN20080809_221442_000000382071_00072_33693_4826.N1	09-AUG-2008 22:14:42	Bright	37.500	107	37The Aur	2.6490	11000.	75	33693	No
247	GOM_NL__2PRFIN20080809_221850_000000452071_00072_33693_4827.N1	09-AUG-2008 22:18:50	Bright	45.000	151	13Mu Gem	2.8900	3000.0	90	33693	No
248	GOM_NL__2PRFIN20080809_222341_000000532071_00072_33693_4828.N1	09-AUG-2008 22:23:41	Dark	52.500	14	58Alp Ori	0.87000	3000.0	105	33693	No
249	GOM_NL__2PRFIN20080809_222640_000000452071_00072_33693_4829.N1	09-AUG-2008 22:26:40	Dark	45.000	30	46Eps Ori	1.6940	30000.	90	33693	No
250	GOM_NL__2PRFIN20080809_222928_000000432071_00072_33693_4830.N1	09-AUG-2008 22:29:28	Dark	42.500	1	9Alp CMa	-1.4400	11000.	85	33693	No
251	GOM_NL__2PRFIN20080809_223125_000000442071_00072_33693_4831.N1	09-AUG-2008 22:31:25	Dark	44.000	101	11Alp Lep	2.5820	7000.0	88	33693	No
252	GOM_NL__2PRFIN20080809_223329_000000382071_00072_33693_4832.N1	09-AUG-2008 22:33:29	Dark	38.000	177	1Zet CMa	3.0220	26000.	76	33693	No
253	GOM_NL__2PRFIN20080809_224916_000000542071_00073_33694_4830.N1	09-AUG-2008 22:49:16	Dark	54.000	9	Alp Eri	0.45300	24000.	108	33694	No
254	GOM_NL__2PRFIN20080809_225529_000000392071_00073_33694_4831.N1	09-AUG-2008 22:55:29	Straylight	38.500	148	Alp Tuc	2.8780	4100.0	77	33694	No
255	GOM_NL__2PRFIN20080809_225859_000000422071_00073_33694_4832.N1	09-AUG-2008 22:58:59	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	33694	No
256	GOM_NL__2PRFIN20080809_230202_000000442071_00073_33694_4833.N1	09-AUG-2008 23:02:02	Straylight	43.500	172	Gam Gru	3.0030	13100.	87	33694	No
257	GOM_NL__2PRFIN20080809_231656_000000352071_00073_33694_4834.N1	09-AUG-2008 23:16:56	Bright	35.000	11	53Alp Aql	0.76500	8000.0	70	33694	No
258	GOM_NL__2PRFIN20080809_231838_000000352071_00073_33694_4835.N1	09-AUG-2008 23:18:38	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	33694	No
259	GOM_NL__2PRFIN20080809_232546_000000342071_00073_33694_4836.N1	09-AUG-2008 23:25:46	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	33694	No
260	GOM_NL__2PRFIN20080809_232715_000000362071_00073_33694_4837.N1	09-AUG-2008 23:27:15	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	33694	No
261	GOM_NL__2PRFIN20080809_232944_000000522071_00073_33694_4838.N1	09-AUG-2008 23:29:44	Bright	52.000	69	33Gam Dra	2.2310	3800.0	104	33694	No
262	GOM_NL__2PRFIN20080809_233957_000000362071_00073_33694_4839.N1	09-AUG-2008 23:39:57	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	33694	No
263	GOM_NL__2PRFIN20080809_235257_000000362071_00073_33694_4840.N1	09-AUG-2008 23:52:57	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	33694	No
264	GOM_NL__2PRFIN20080809_235518_000000372071_00073_33694_4841.N1	09-AUG-2008 23:55:18	Bright	36.500	107	37The Aur	2.6490	11000.	73	33694	No
265	GOM_NL__2PRFIN20080809_235926_000000542071_00073_33694_4842.N1	09-AUG-2008 23:59:26	Bright	54.000	151	13Mu Gem	2.8900	3000.0	108	33694	No

### 3. Quality information per product

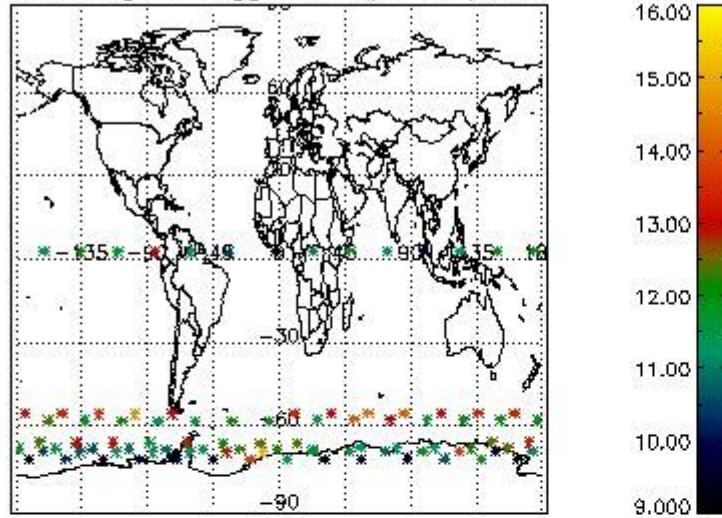
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

#### 3.1 Plot quality information per product (time dependant)

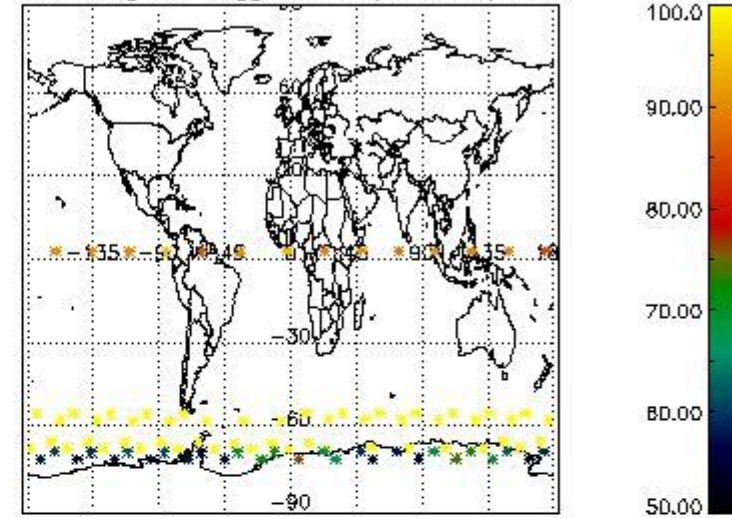


3.2 Plot quality information per product (world map)

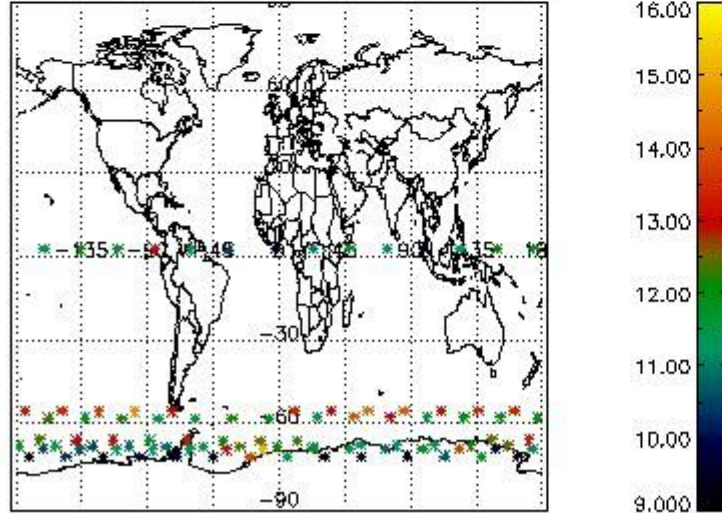
Percentage of flagged data per O3 profile



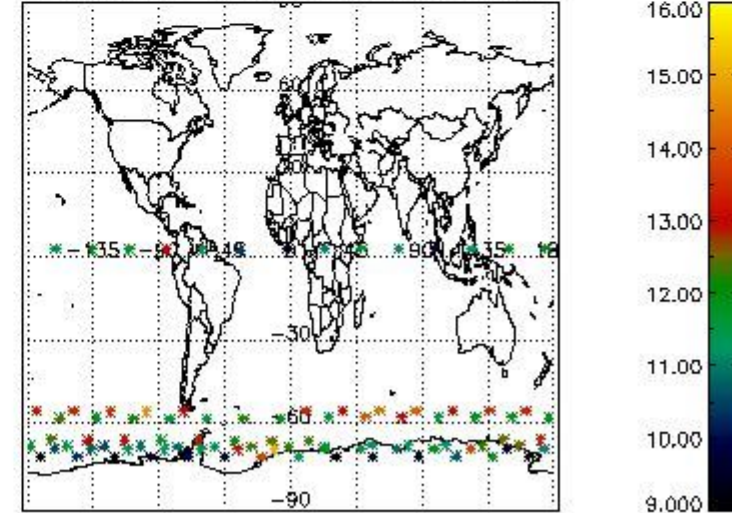
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



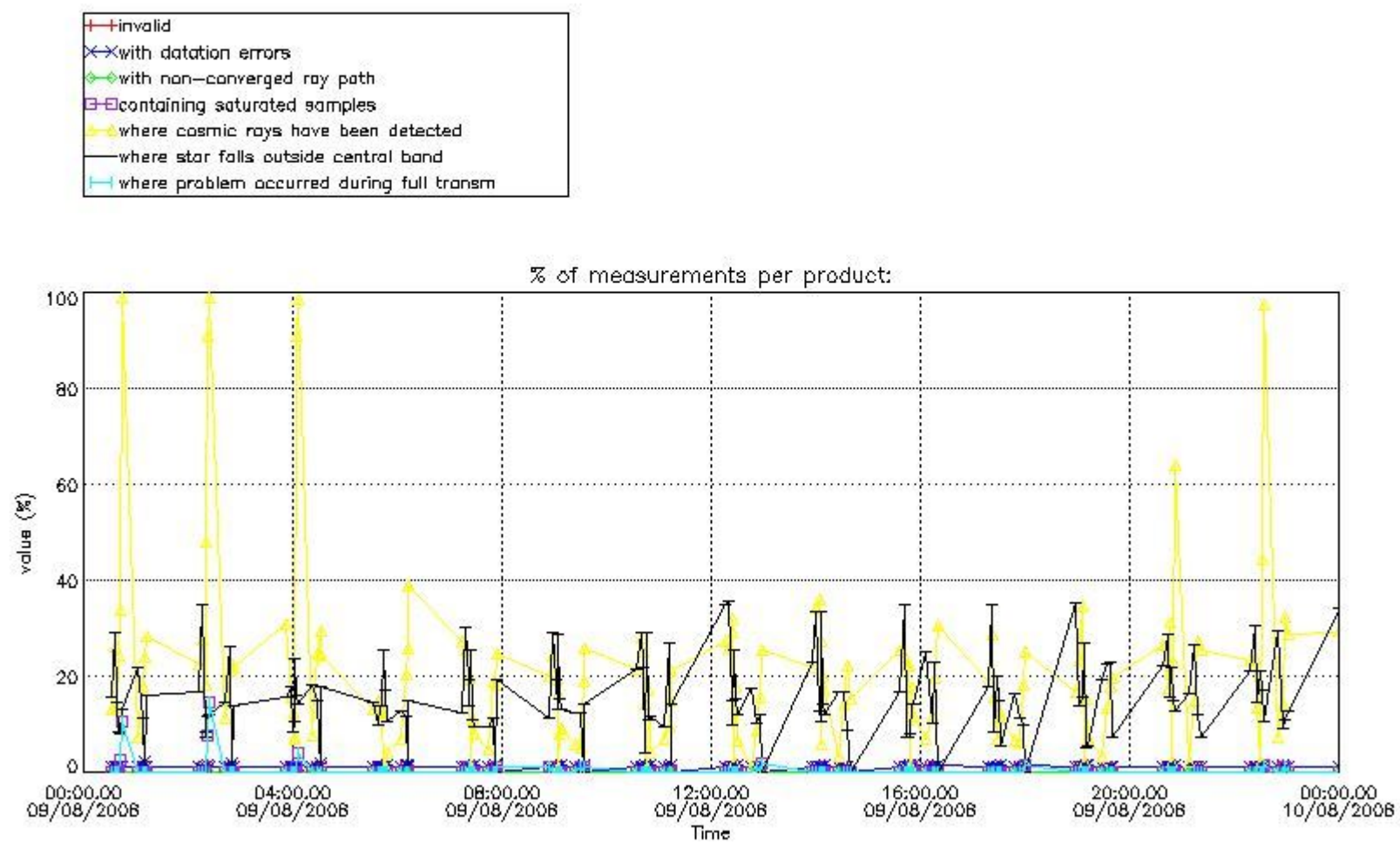
#### 4. Level 1 quality information per product

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.

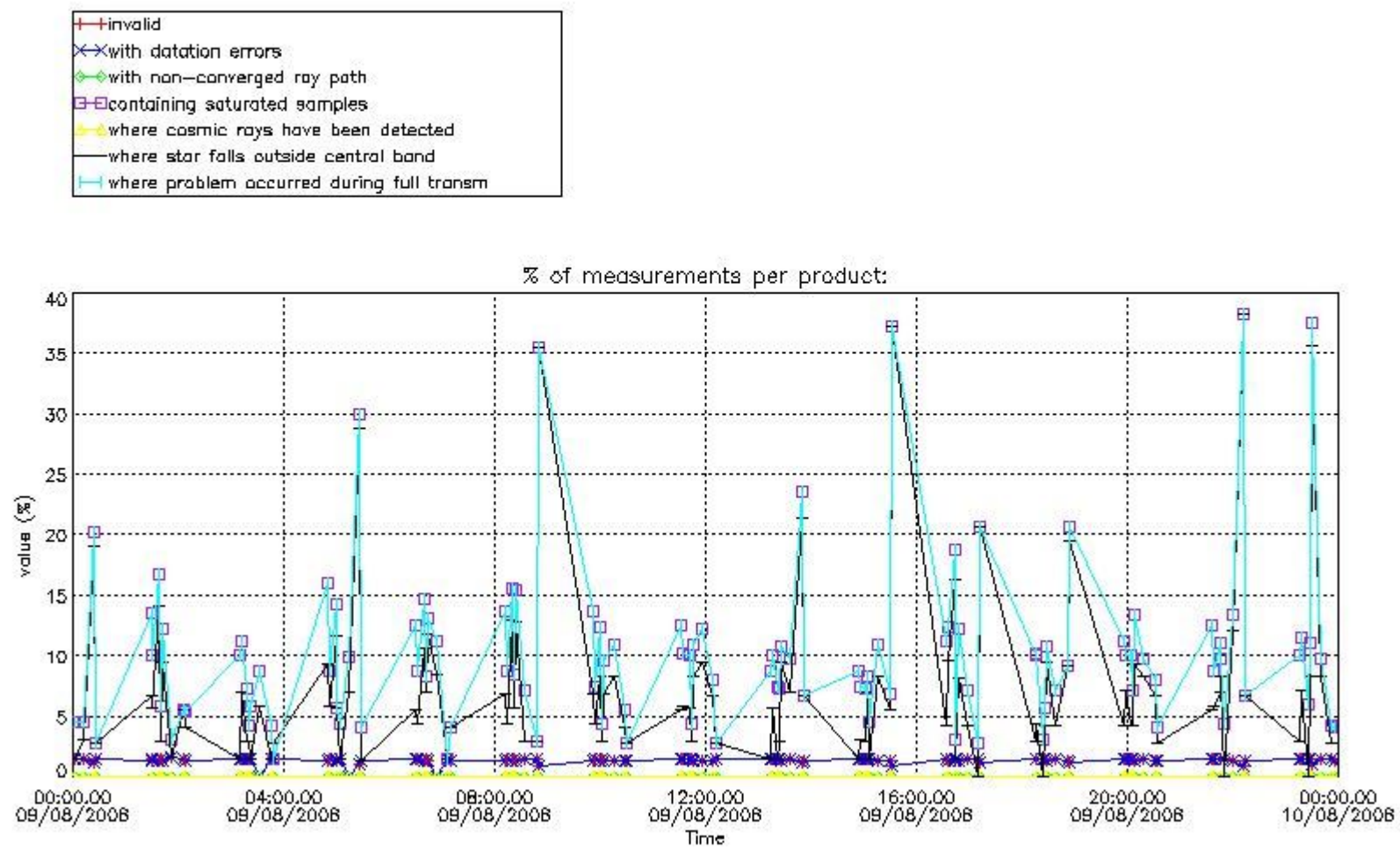
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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



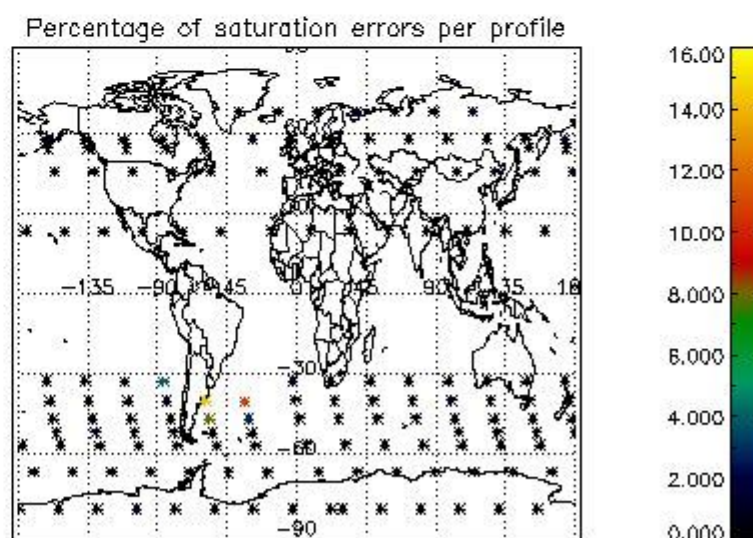
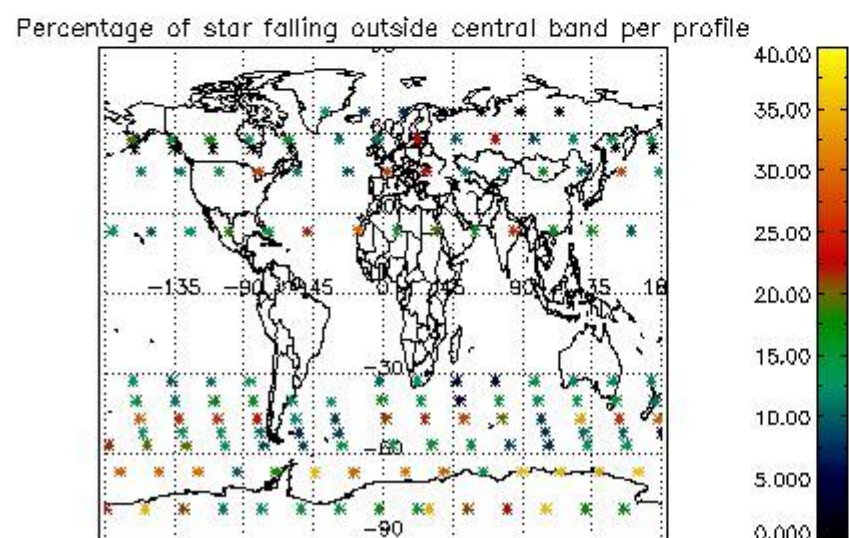
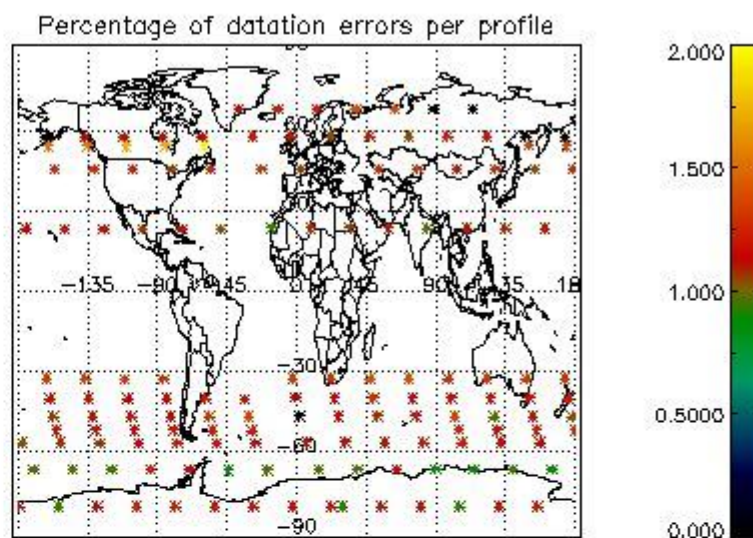
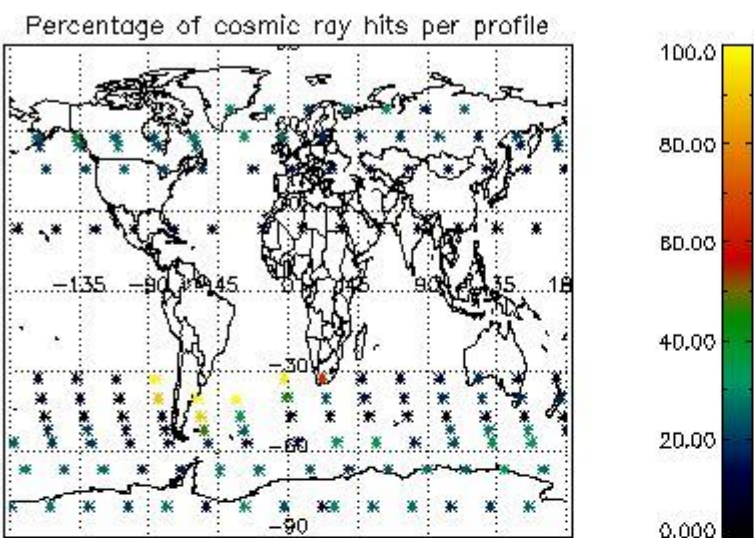


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



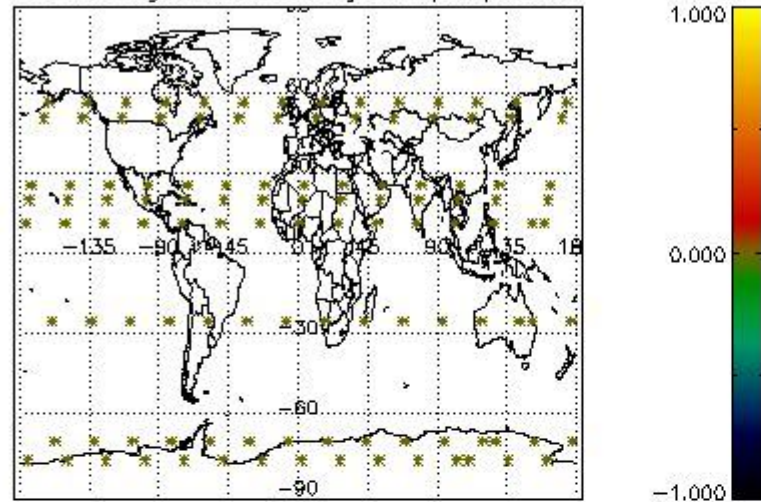
4.2 Plot quality information per product coming from level 1b processing (world map)

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

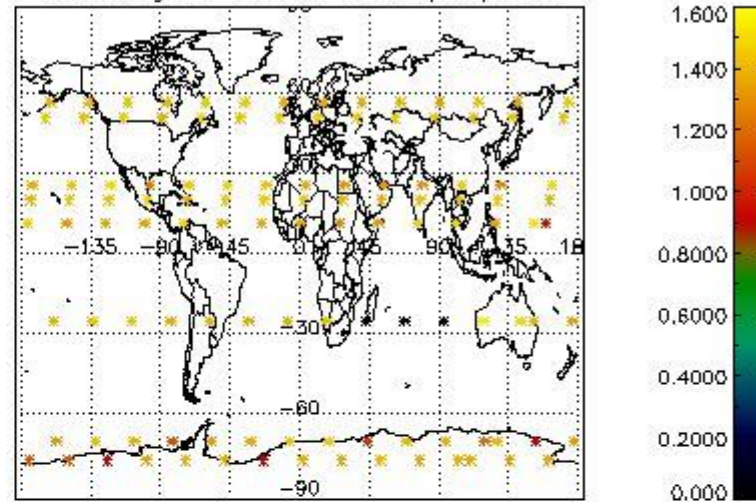


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

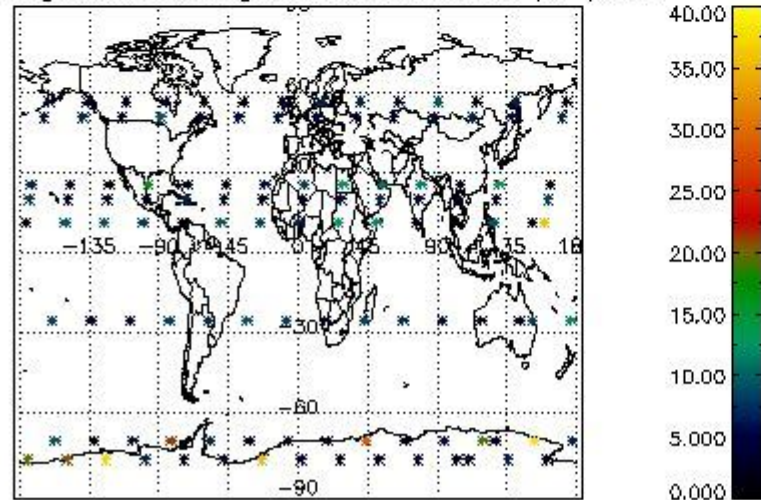
Percentage of cosmic ray hits per profile



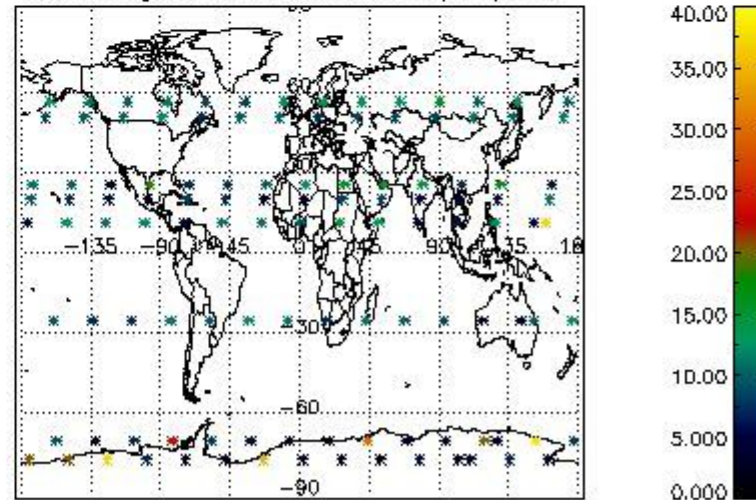
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



## 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

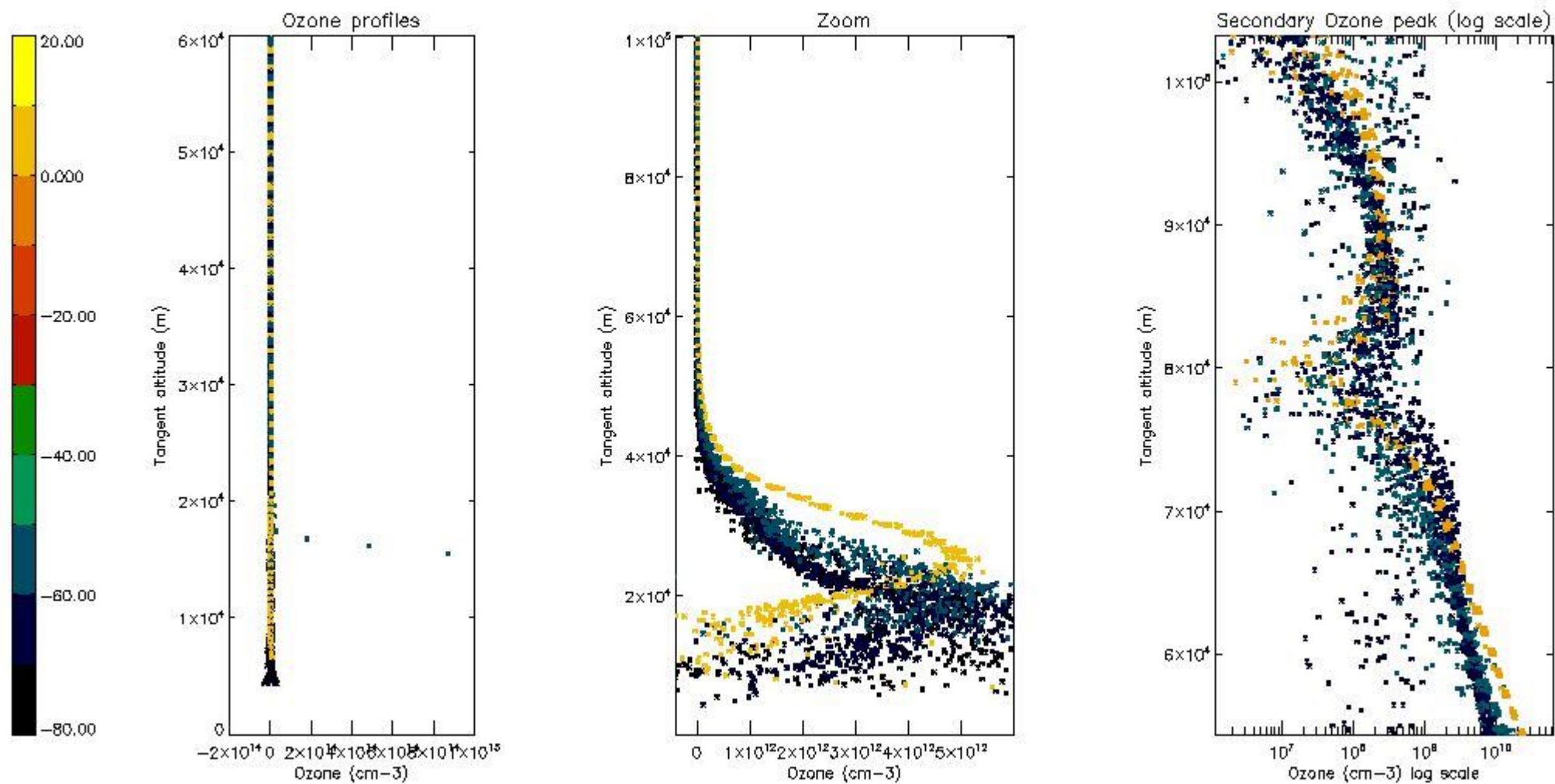
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	39
STD < 20	23

STD < 10	19
STD < 5	14

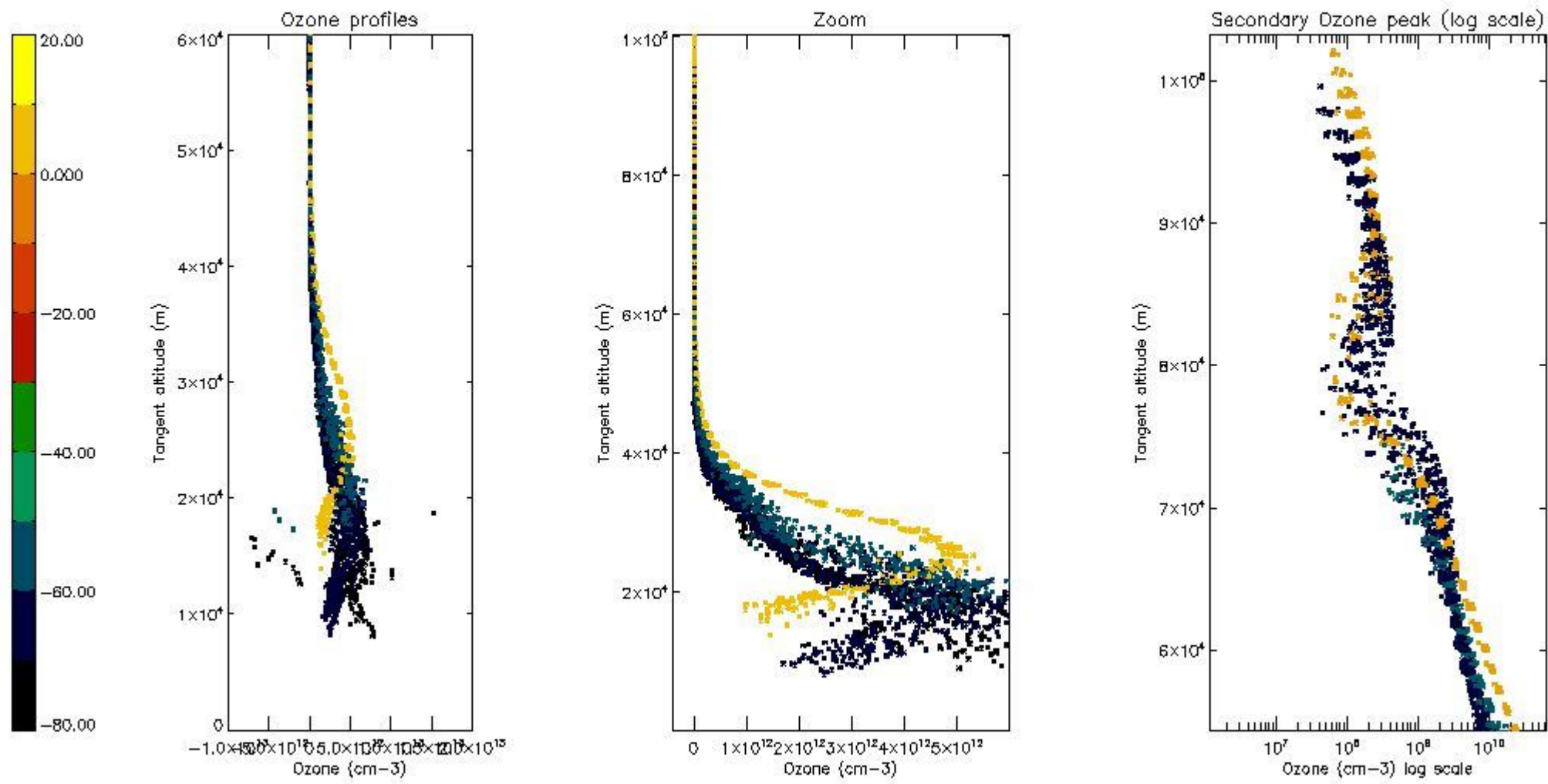
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



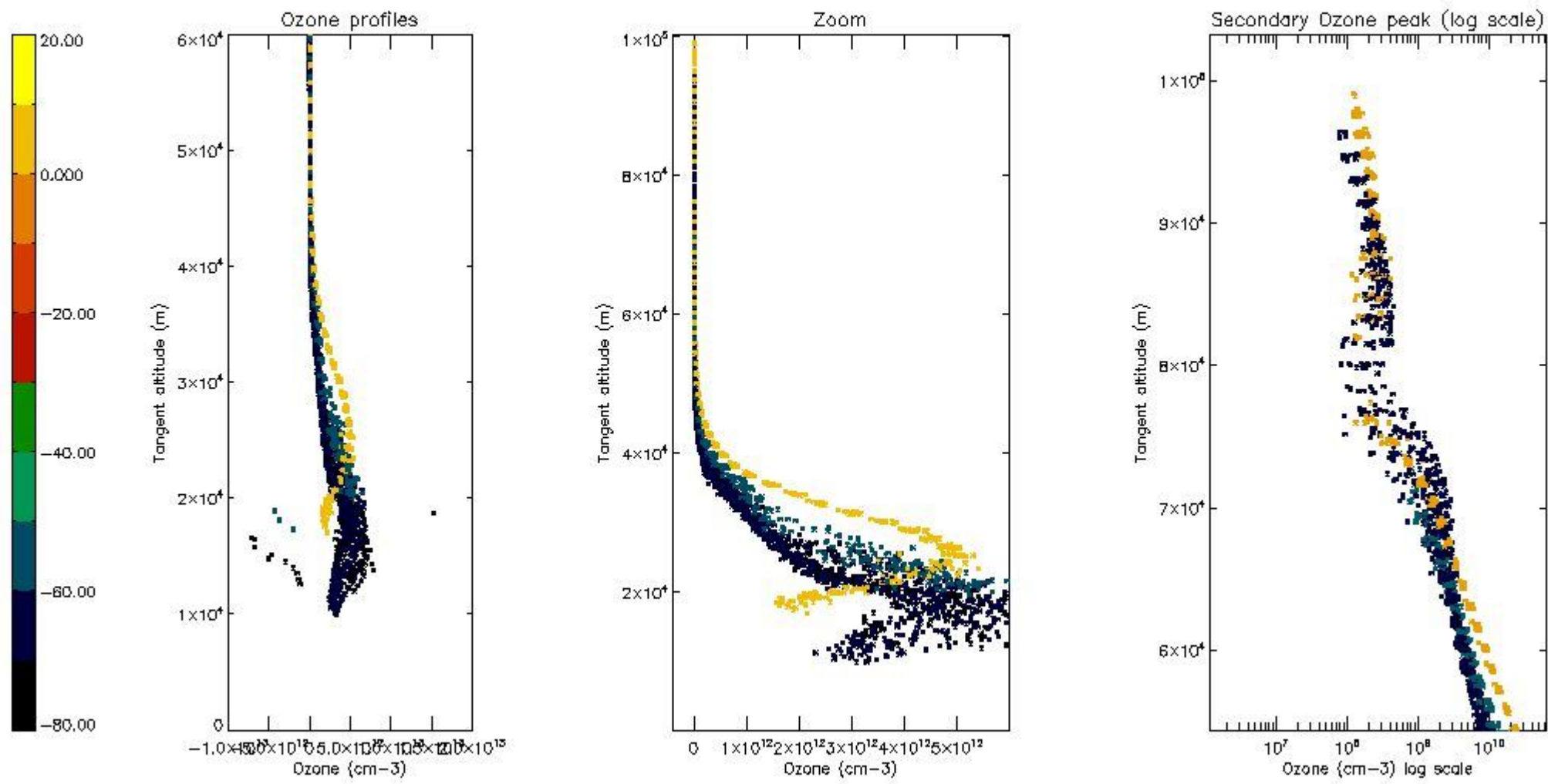
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



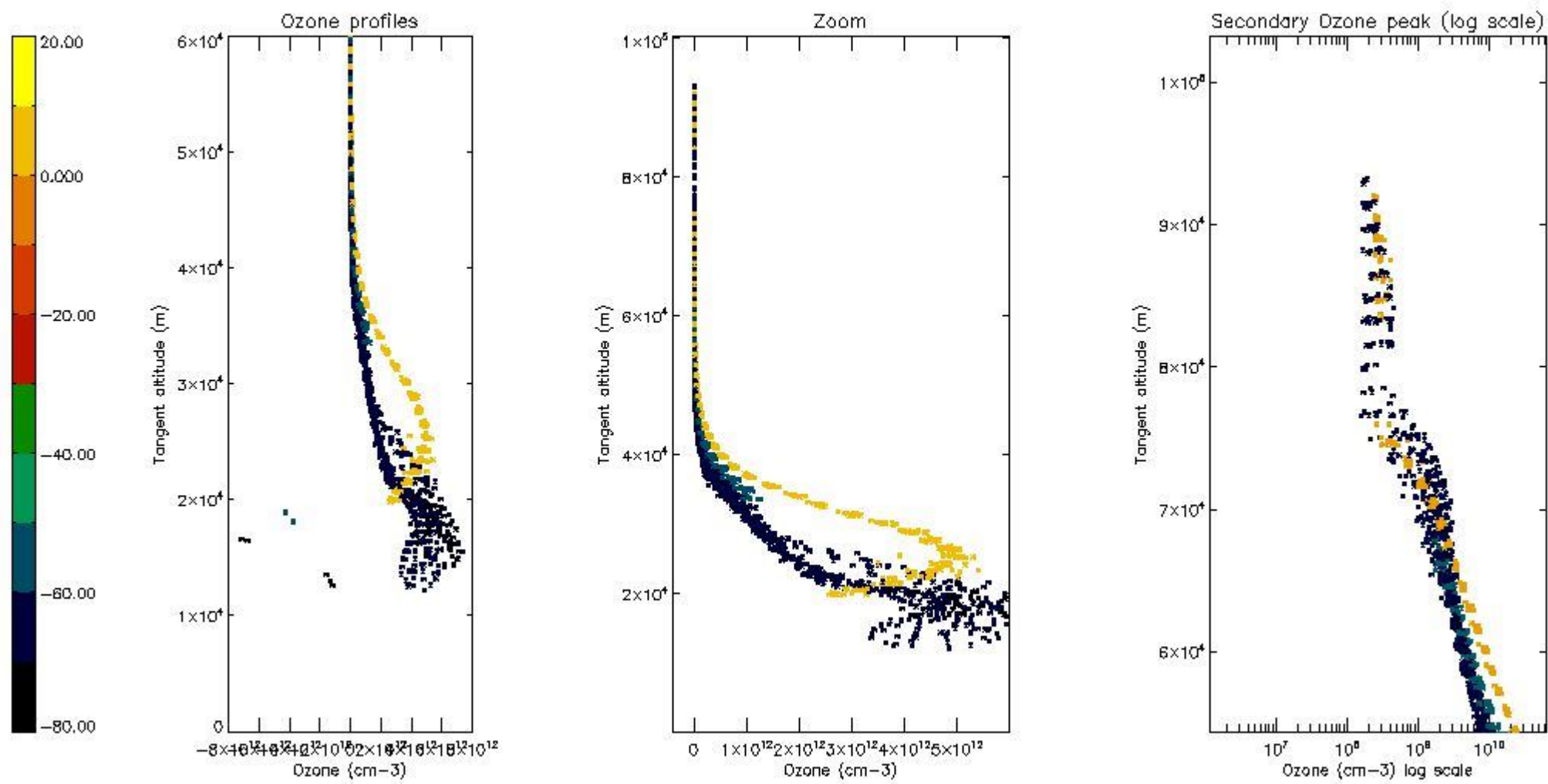
5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)

The colorbar represents the latitude.



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

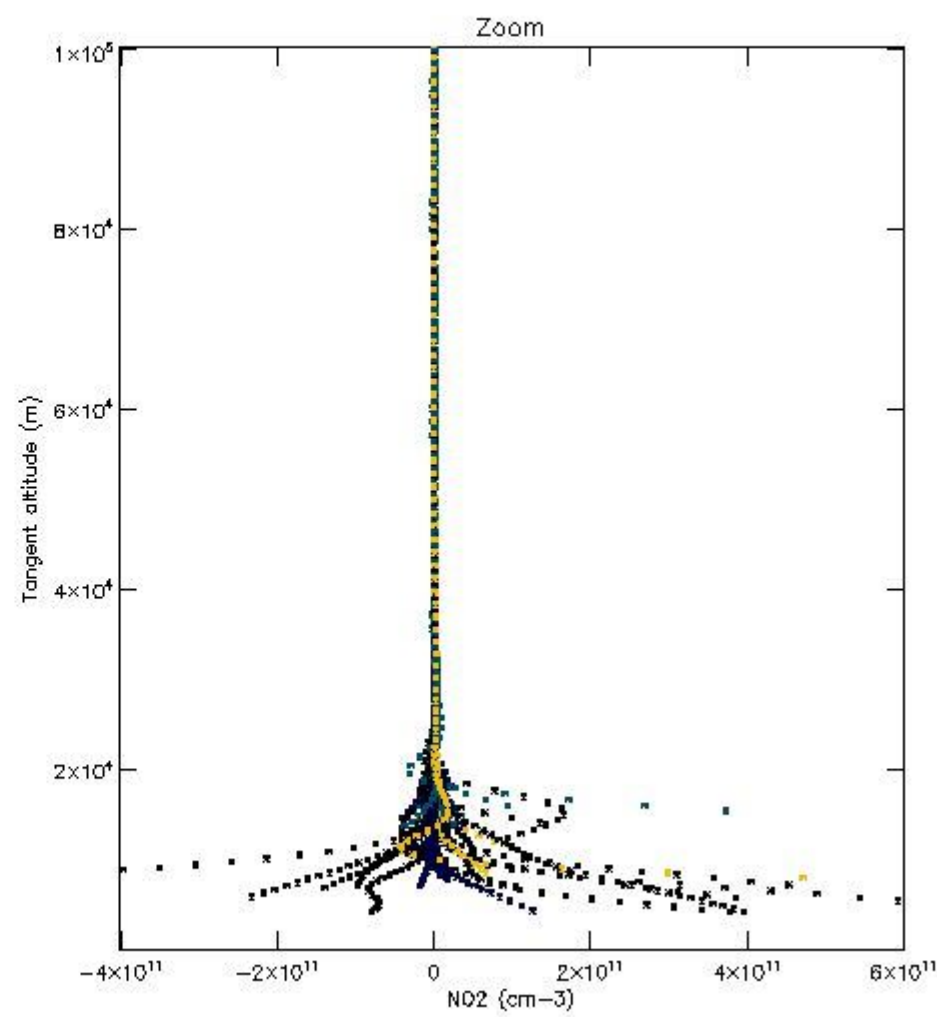
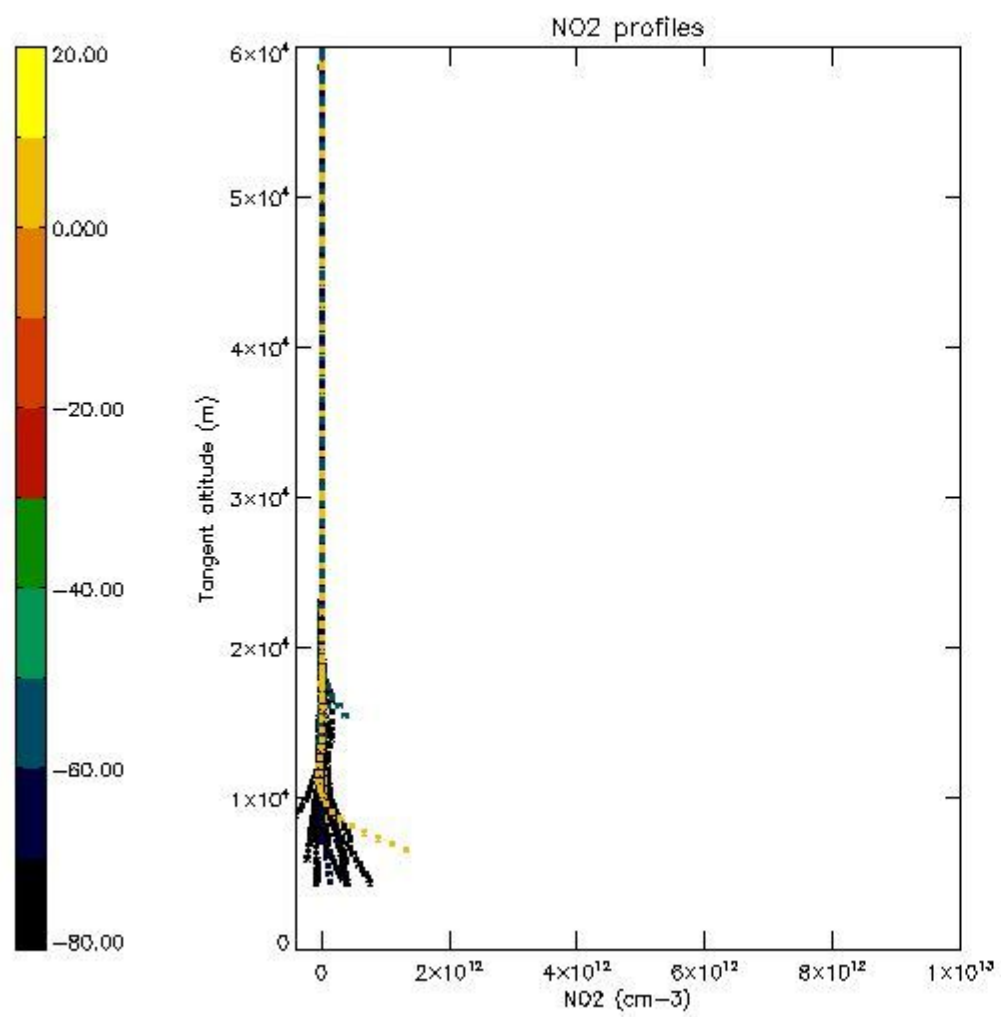
The colorbar represents the latitude.



*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

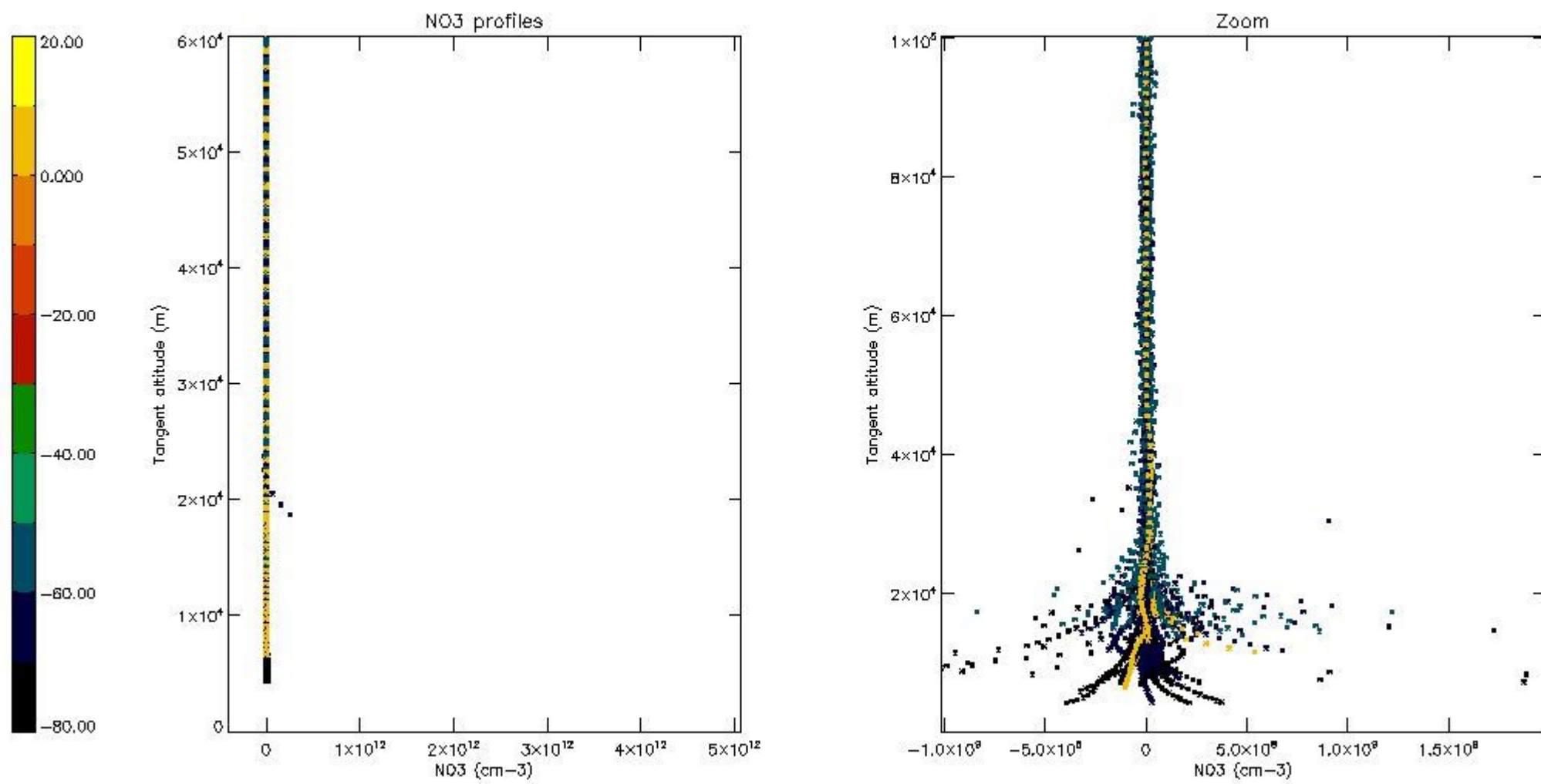
The colorbar represents the latitude.





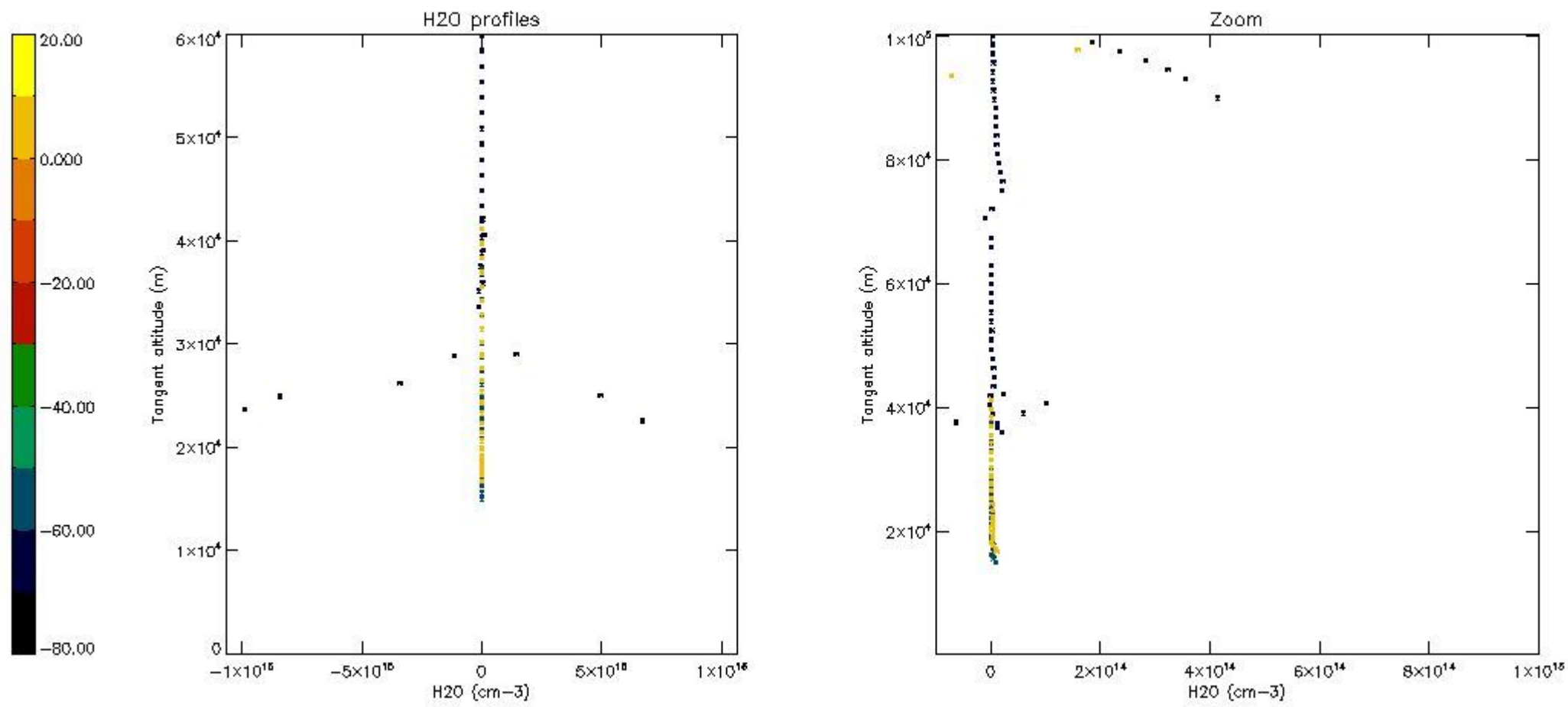
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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	09-AUG-2008 00:01:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-AUG-2008 00:01:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-AUG-2008 00:01:18

# GOMOS Level 2 Daily Report

## SUMMARY

### [1. General Info](#)

### [2. Summary of processed GOM\\_NL\\_2P products](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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	25APR2013 18:36:43
Data source version	GOMOS/6.01
Start time of products	09-08-2008 (09AUG2008 00:00:00)
Stop time of products	10-08-2008 (10AUG2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	265
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__2PRFIN20080809_000118_000000332071_00059_33680_4620.N1	09-AUG-2008 00:01:18	Bright	33.000	69	33Gam Dra	2.2310	3800.0	66	33680	No
2	GOM_NL__2PRFIN20080809_001134_000000342071_00059_33680_4621.N1	09-AUG-2008 00:11:34	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	33680	No
3	GOM_NL__2PRFIN20080809_002434_000000422071_00059_33680_4622.N1	09-AUG-2008 00:24:34	Bright	42.000	42	34Bet Aur	1.9000	10200.	84	33680	No
4	GOM_NL__2PRFIN20080809_002654_000000362071_00059_33680_4623.N1	09-AUG-2008 00:26:54	Bright	36.000	107	37The Aur	2.6490	11000.	72	33680	No
5	GOM_NL__2PRFIN20080809_003101_000000422071_00059_33680_4624.N1	09-AUG-2008 00:31:01	Bright	41.500	151	13Mu Gem	2.8900	3000.0	83	33680	No
6	GOM_NL__2PRFIN20080809_003549_000000522071_00059_33680_4625.N1	09-AUG-2008 00:35:49	Dark	51.500	14	58Alp Ori	0.87000	3000.0	103	33680	No
7	GOM_NL__2PRFIN20080809_003847_000000452071_00059_33680_4626.N1	09-AUG-2008 00:38:47	Dark	44.500	30	46Eps Ori	1.6940	30000.	89	33680	No
8	GOM_NL__2PRFIN20080809_004009_000000412071_00059_33680_4627.N1	09-AUG-2008 00:40:09	Dark	41.000	125	44Iot Ori	2.7700	30000.	82	33680	No
9	GOM_NL__2PRFIN20080809_004138_000000372071_00059_33680_4628.N1	09-AUG-2008 00:41:38	Dark	37.000	1	9Alp CMa	-1.4400	11000.	74	33680	No
10	GOM_NL__2PRFIN20080809_004332_000000432071_00059_33680_4629.N1	09-AUG-2008 00:43:32	Dark	42.500	101	11Alp Lep	2.5820	7000.0	85	33680	No
11	GOM_NL__2PRFIN20080809_010120_000000492071_00060_33681_4690.N1	09-AUG-2008 01:01:20	Dark	48.500	9	Alp Eri	0.45300	24000.	97	33681	No
12	GOM_NL__2PRFIN20080809_010737_000000402071_00060_33681_4691.N1	09-AUG-2008 01:07:37	Straylight	39.500	148	Alp Tuc	2.8780	4100.0	79	33681	No
13	GOM_NL__2PRFIN20080809_011008_000000252071_00060_33681_4692.N1	09-AUG-2008 01:10:08	Straylight	25.000	63	Bet Gru	2.1500	2800.0	50	33681	No
14	GOM_NL__2PRFIN20080809_011107_000000442071_00060_33681_4693.N1	09-AUG-2008 01:11:07	Straylight	44.000	31	Alp Gru	1.7340	15200.	88	33681	No
15	GOM_NL__2PRFIN20080809_012909_000000372071_00060_33681_4694.N1	09-AUG-2008 01:29:09	Bright	37.000	11	53Alp Aql	0.76500	8000.0	74	33681	No
16	GOM_NL__2PRFIN20080809_013048_000000352071_00060_33681_4695.N1	09-AUG-2008 01:30:48	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	33681	No
17	GOM_NL__2PRFIN20080809_013756_000000392071_00060_33681_4696.N1	09-AUG-2008 01:37:56	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	33681	No
18	GOM_NL__2PRFIN20080809_013929_000000352071_00060_33681_4697.N1	09-AUG-2008 01:39:29	Bright	34.500	144	18Del Cyg	2.8600	11000.	69	33681	No
19	GOM_NL__2PRFIN20080809_014154_000000372071_00060_33681_4698.N1	09-AUG-2008 01:41:54	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	33681	No
20	GOM_NL__2PRFIN20080809_015210_000000332071_00060_33681_4699.N1	09-AUG-2008 01:52:10	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	33681	No
21	GOM_NL__2PRFIN20080809_020510_000000362071_00060_33681_4700.N1	09-AUG-2008 02:05:10	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	33681	No
22	GOM_NL__2PRFIN20080809_020730_000000372071_00060_33681_4701.N1	09-AUG-2008 02:07:30	Bright	37.000	107	37The Aur	2.6490	11000.	74	33681	No
23	GOM_NL__2PRFIN20080809_021137_000000422071_00060_33681_4702.N1	09-AUG-2008 02:11:37	Bright	42.000	151	13Mu Gem	2.8900	3000.0	84	33681	No
24	GOM_NL__2PRFIN20080809_021626_000000562071_00060_33681_4703.N1	09-AUG-2008 02:16:26	Dark	56.000	14	58Alp Ori	0.87000	3000.0	112	33681	No
25	GOM_NL__2PRFIN20080809_021923_000000422071_00060_33681_4704.N1	09-AUG-2008 02:19:23	Dark	41.500	30	46Eps Ori	1.6940	30000.	83	33681	No
26	GOM_NL__2PRFIN20080809_022046_000000412071_00060_33681_4705.N1	09-AUG-2008 02:20:46	Dark	40.500	125	44Iot Ori	2.7700	30000.	81	33681	No
27	GOM_NL__2PRFIN20080809_022214_000000392071_00060_33681_4706.N1	09-AUG-2008 02:22:14	Dark	38.500	1	9Alp CMa	-1.4400	11000.	77	33681	No
28	GOM_NL__2PRFIN20080809_022408_000000422071_00060_33681_4707.N1	09-AUG-2008 02:24:08	Dark	41.500	101	11Alp Lep	2.5820	7000.0	83	33681	No
29	GOM_NL__2PRFIN20080809_024157_000000452071_00061_33682_4698.N1	09-AUG-2008 02:41:57	Dark	44.500	9	Alp Eri	0.45300	24000.	89	33682	No
30	GOM_NL__2PRFIN20080809_024814_000000482071_00061_33682_4699.N1	09-AUG-2008 02:48:14	Straylight	47.500	148	Alp Tuc	2.8780	4100.0	95	33682	No
31	GOM_NL__2PRFIN20080809_025044_000000292071_00061_33682_4700.N1	09-AUG-2008 02:50:44	Straylight	29.000	63	Bet Gru	2.1500	2800.0	58	33682	No
32	GOM_NL__2PRFIN20080809_025143_000000442071_00061_33682_4701.N1	09-AUG-2008 02:51:43	Straylight	43.500	31	Alp Gru	1.7340	15200.	87	33682	No
33	GOM_NL__2PRFIN20080809_030945_000000352071_00061_33682_4702.N1	09-AUG-2008 03:09:45	Bright	35.000	11	53Alp Aql	0.76500	8000.0	70	33682	No
34	GOM_NL__2PRFIN20080809_031124_000000362071_00061_33682_4703.N1	09-AUG-2008 03:11:24	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	33682	No
35	GOM_NL__2PRFIN20080809_031832_000000352071_00061_33682_4704.N1	09-AUG-2008 03:18:32	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	33682	No
36	GOM_NL__2PRFIN20080809_032005_000000352071_00061_33682_4705.N1	09-AUG-2008 03:20:05	Bright	35.000	144	18Del Cyg	2.8600	11000.	70	33682	No
37	GOM_NL__2PRFIN20080809_032230_000000342071_00061_33682_4706.N1	09-AUG-2008 03:22:30	Bright	34.000	69	33Gam Dra	2.2310	3800.0	68	33682	No
38	GOM_NL__2PRFIN20080809_033246_000000352071_00061_33682_4707.N1	09-AUG-2008 03:32:46	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	33682	No
39	GOM_NL__2PRFIN20080809_034546_000000362071_00061_33682_4708.N1	09-AUG-2008 03:45:46	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	33682	No
40	GOM_NL__2PRFIN20080809_034806_000000362071_00061_33682_4709.N1	09-AUG-2008 03:48:06	Bright	35.500	107	37The Aur	2.6490	11000.	71	33682	No
41	GOM_NL__2PRFIN20080809_035213_000000422071_00061_33682_4710.N1	09-AUG-2008 03:52:13	Bright	42.000	151	13Mu Gem	2.8900	3000.0	84	33682	No
42	GOM_NL__2PRFIN20080809_035702_000000452071_00061_33682_4711.N1	09-AUG-2008 03:57:02	Dark	44.500	14	58Alp Ori	0.87000	3000.0	89	33682	No

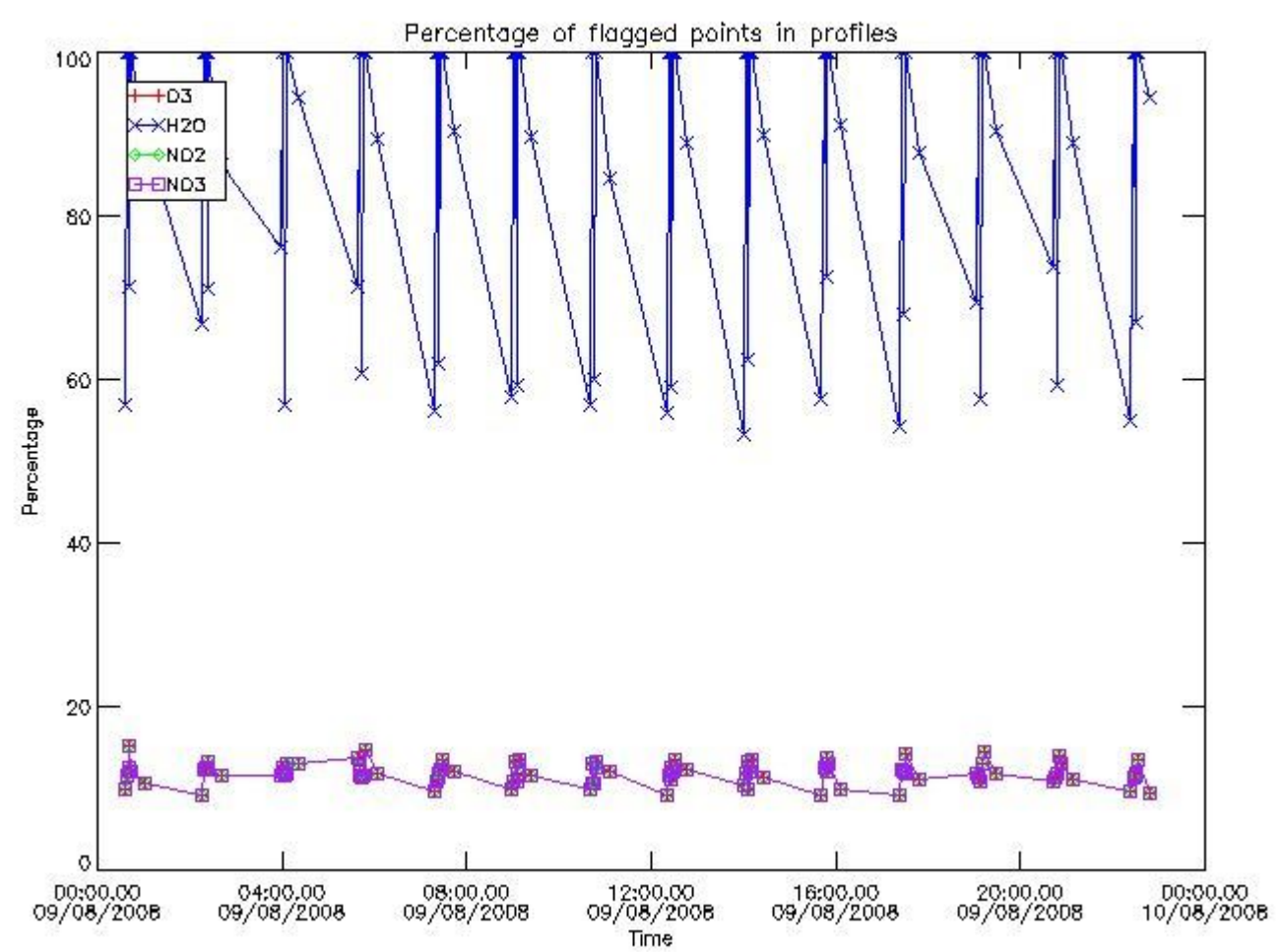






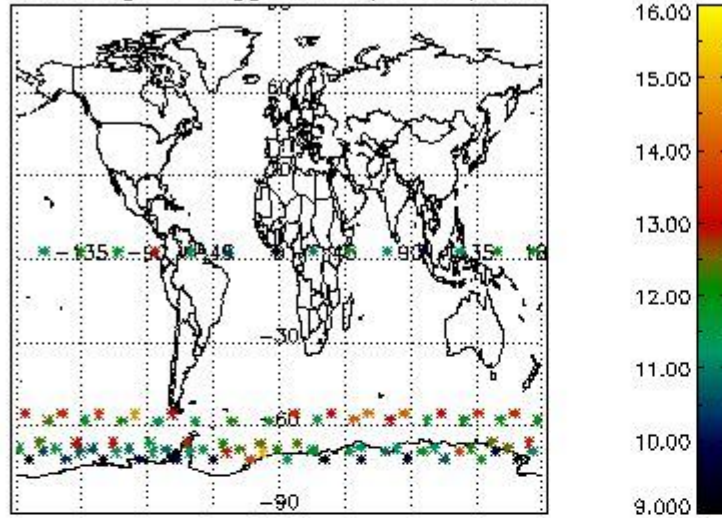




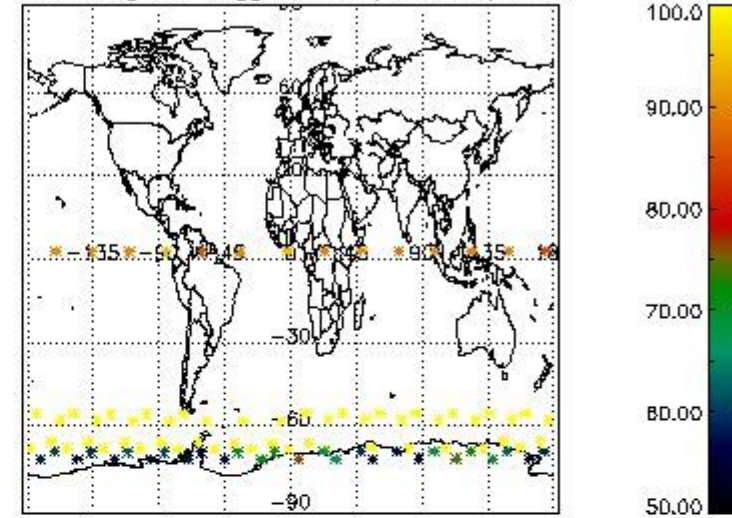


3.2 Plot quality information per product (world map)

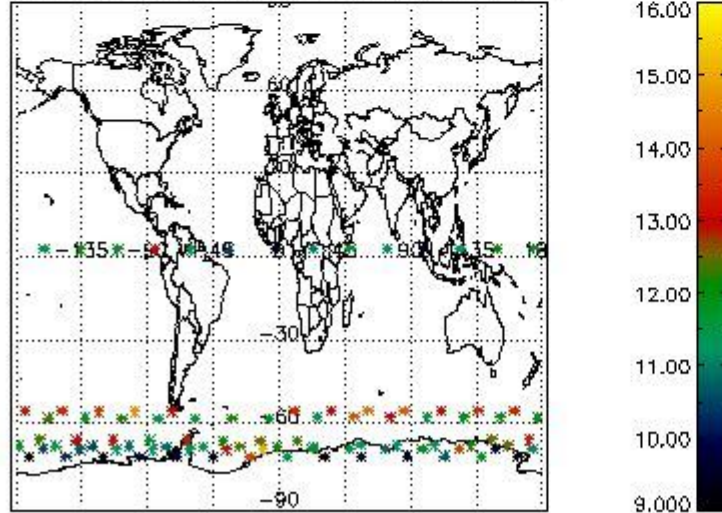
Percentage of flagged data per O3 profile



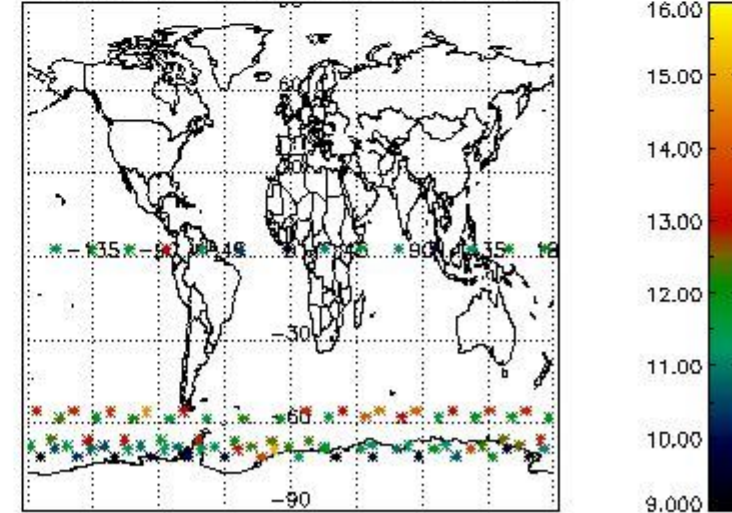
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

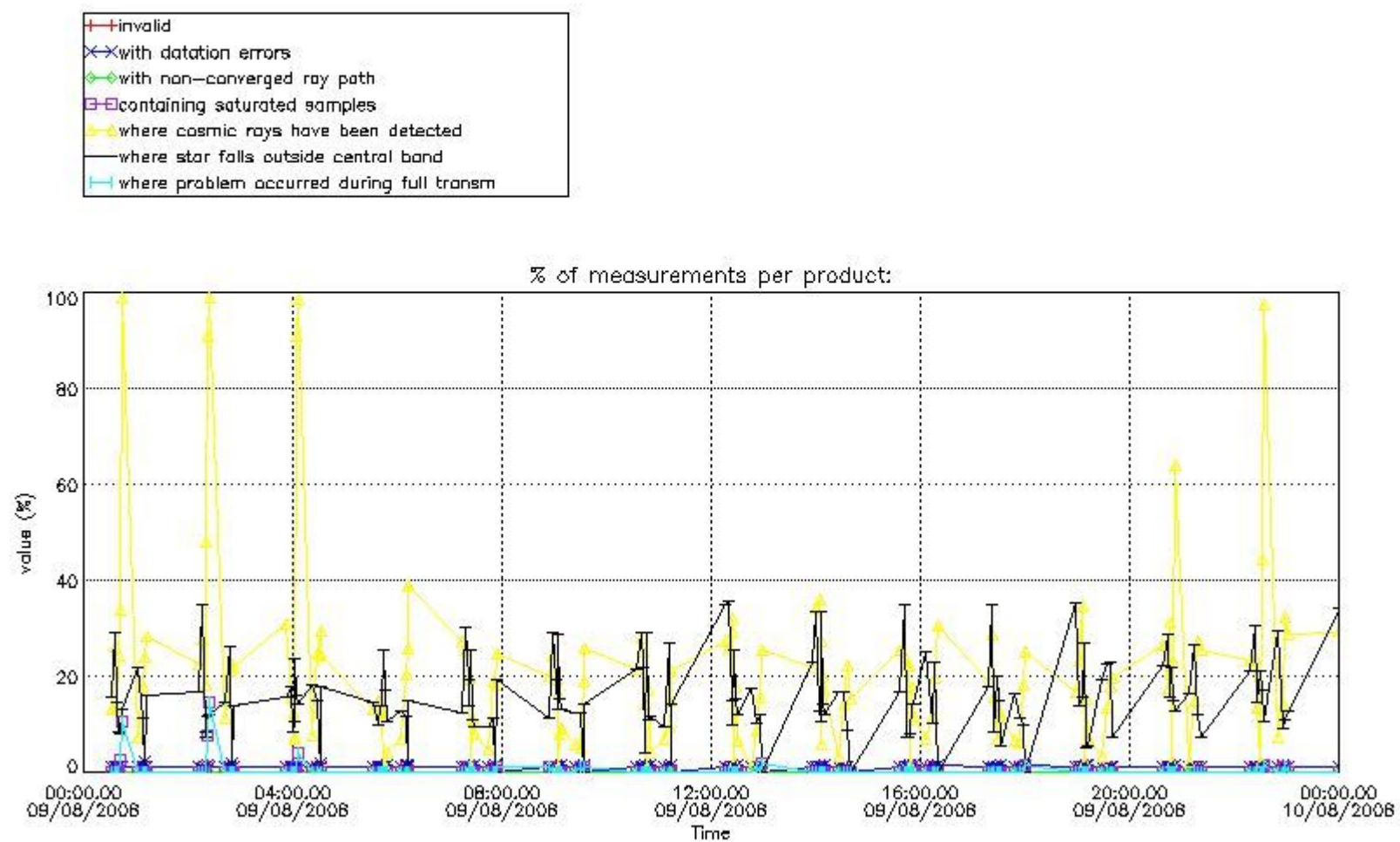


#### 4. Level 1 quality information per product

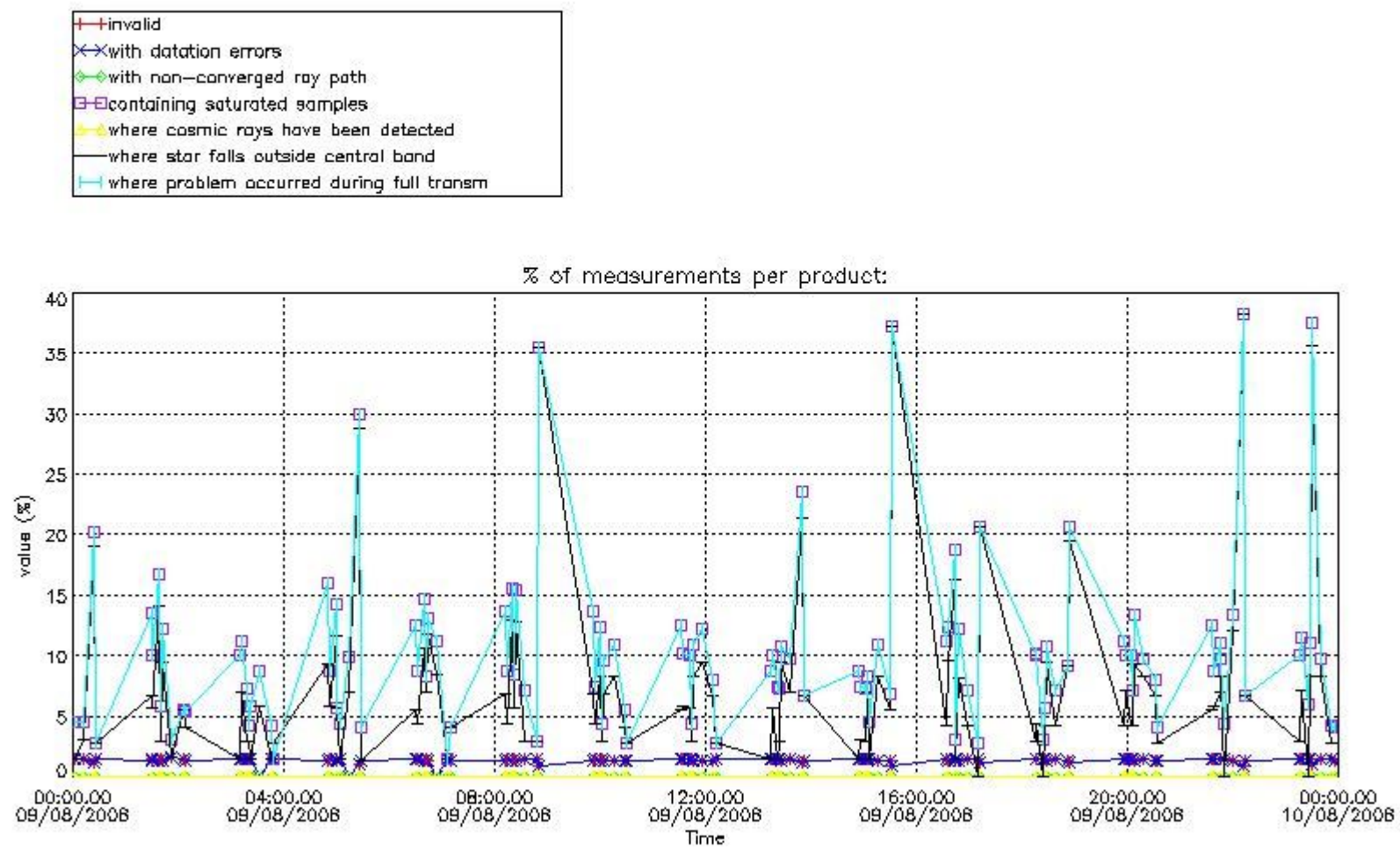
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



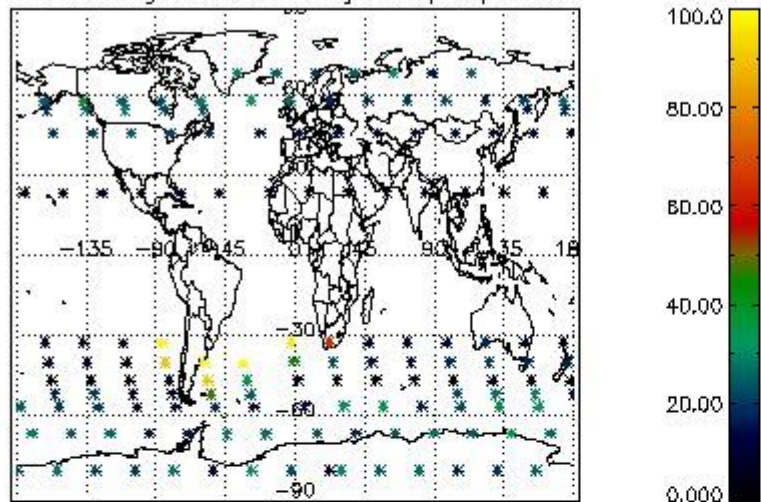
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



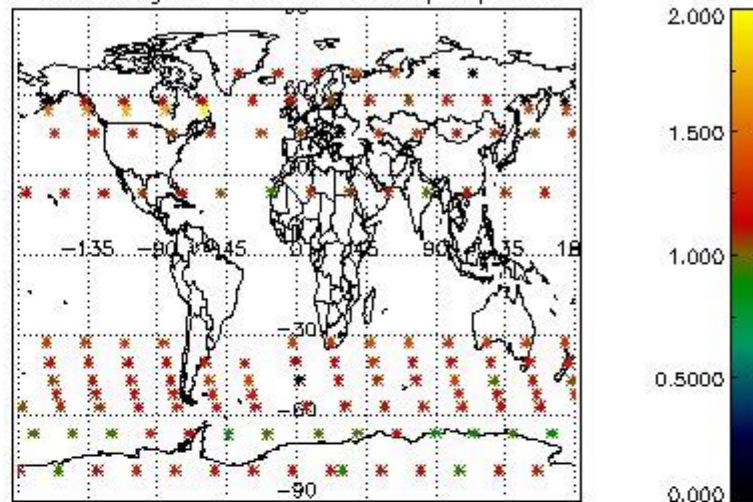
4.2 Plot quality information per product coming from level 1b processing (world map)

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

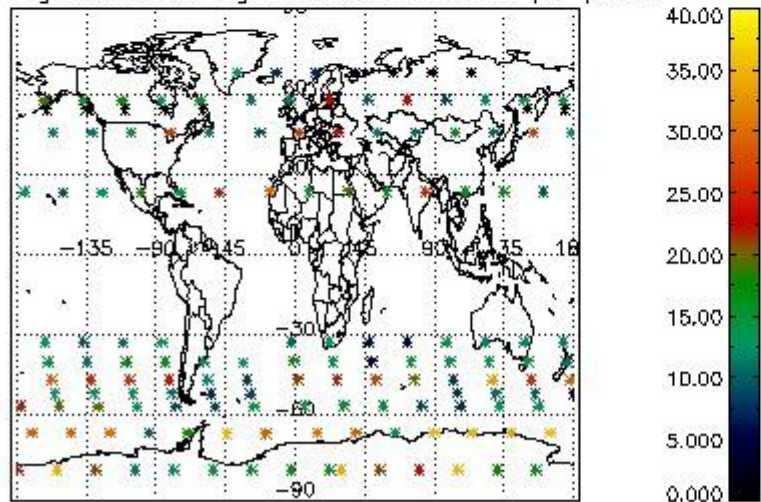
Percentage of cosmic ray hits per profile



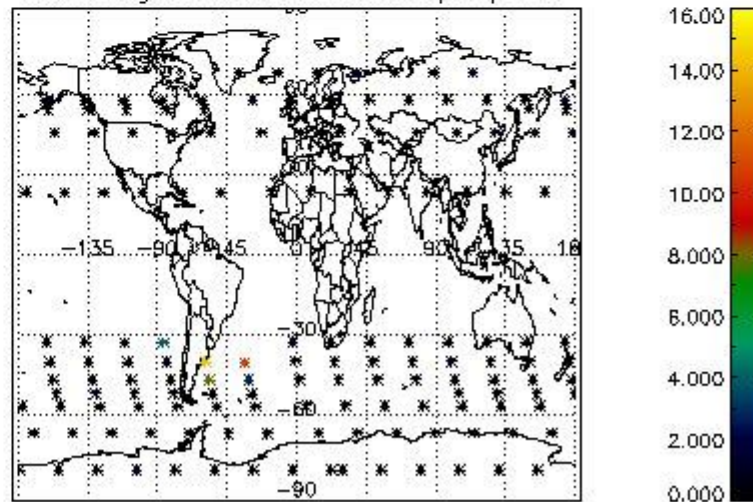
Percentage of datation errors per profile



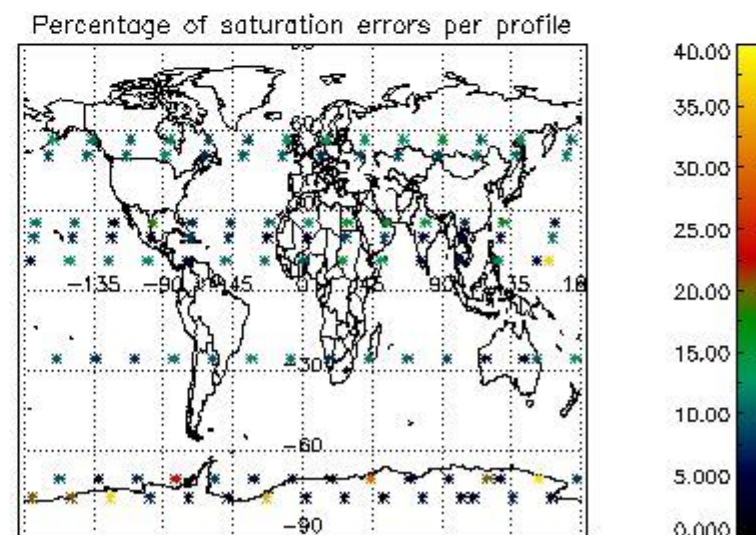
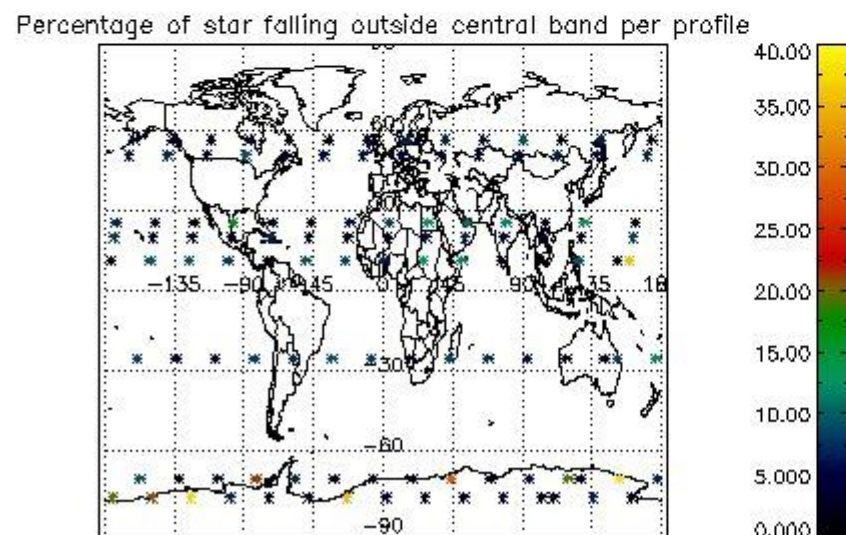
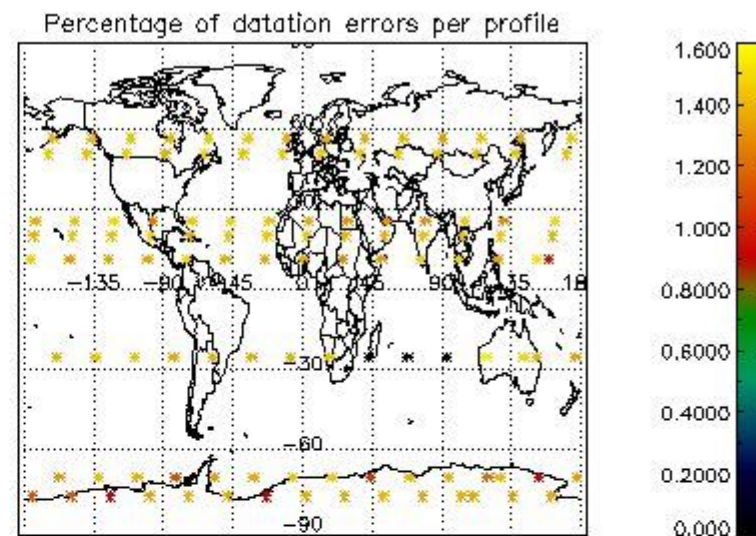
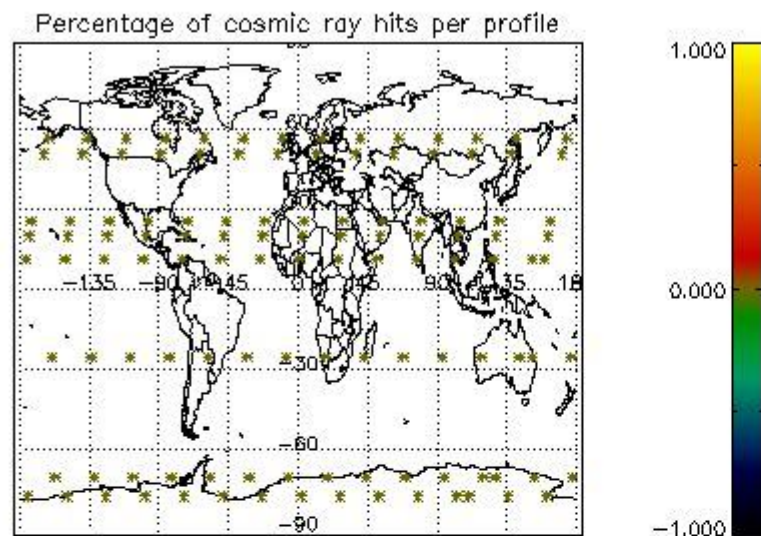
Percentage of star falling outside central band per profile



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

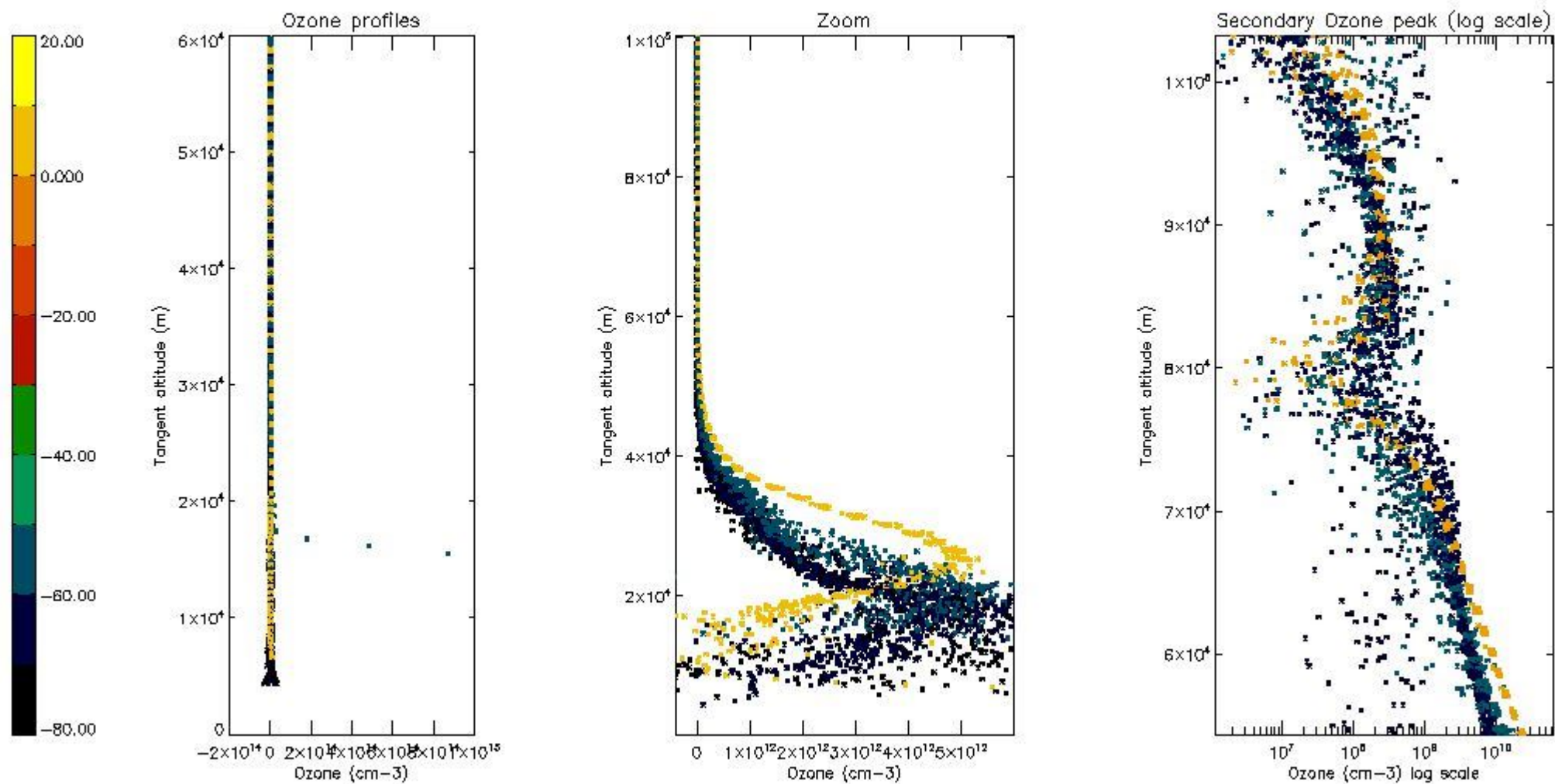
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	39
STD < 20	23

STD < 10	19
STD < 5	14

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

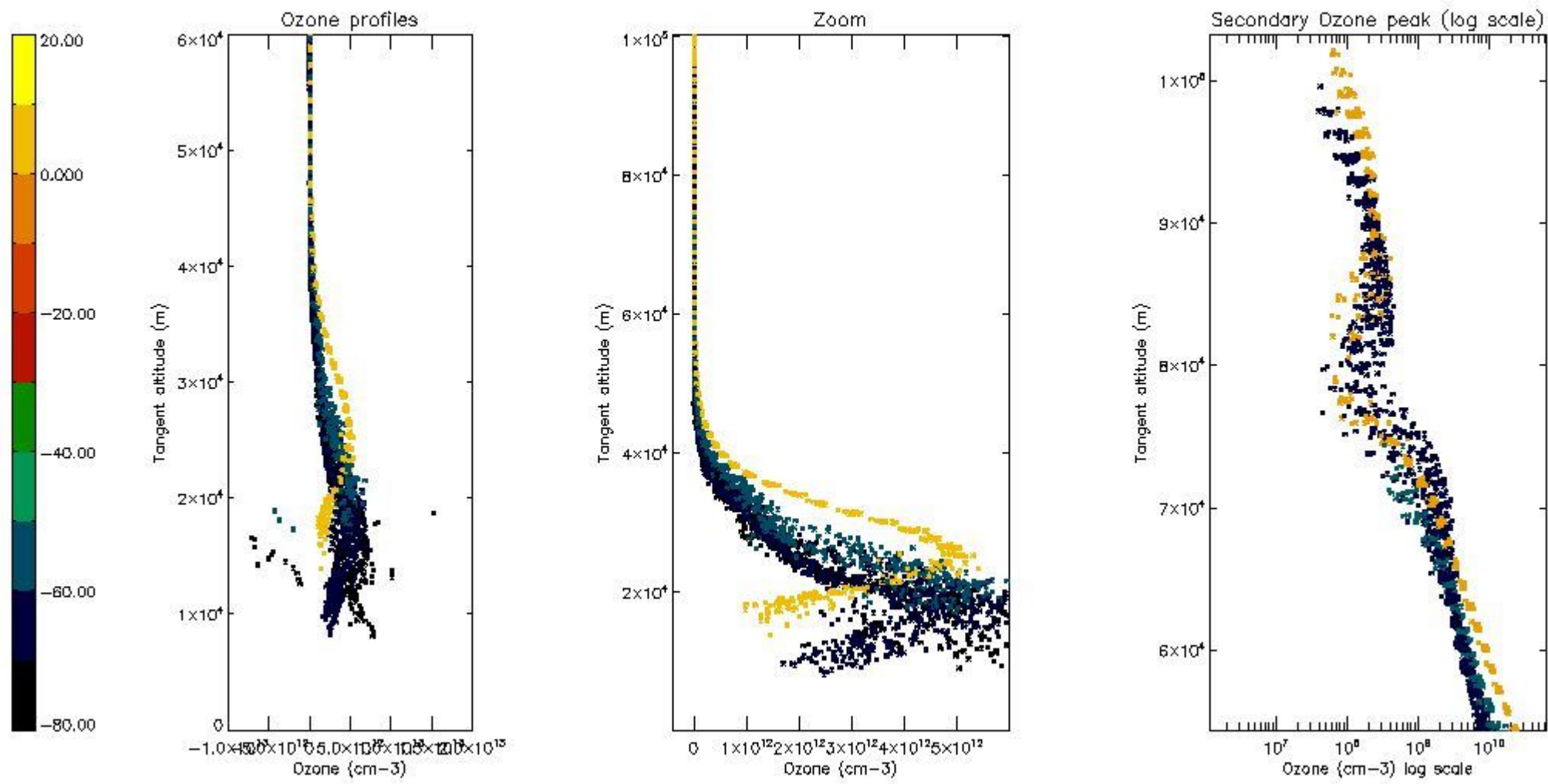
The colorbar represents the latitude.



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

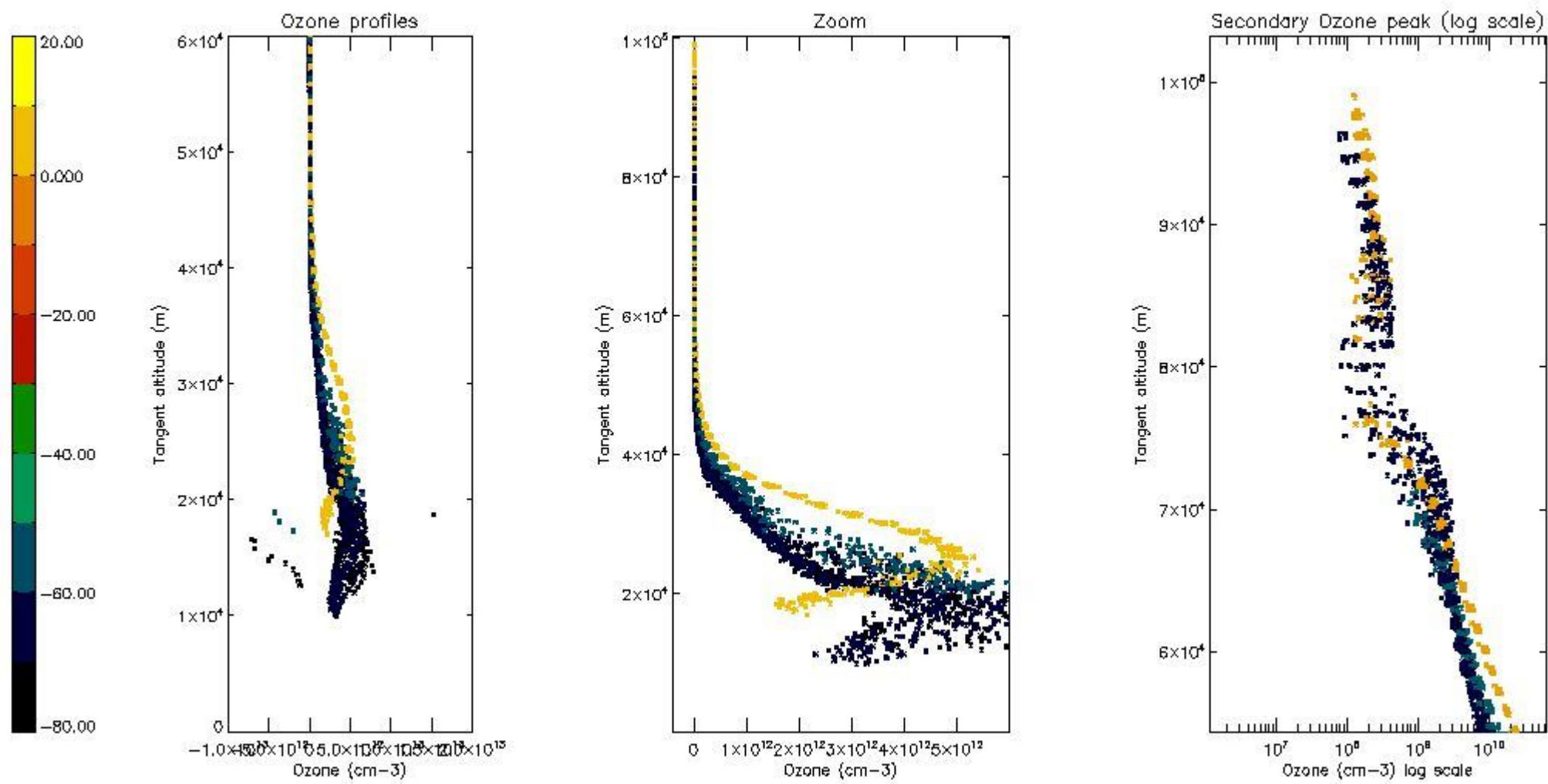
The colorbar represents the latitude.





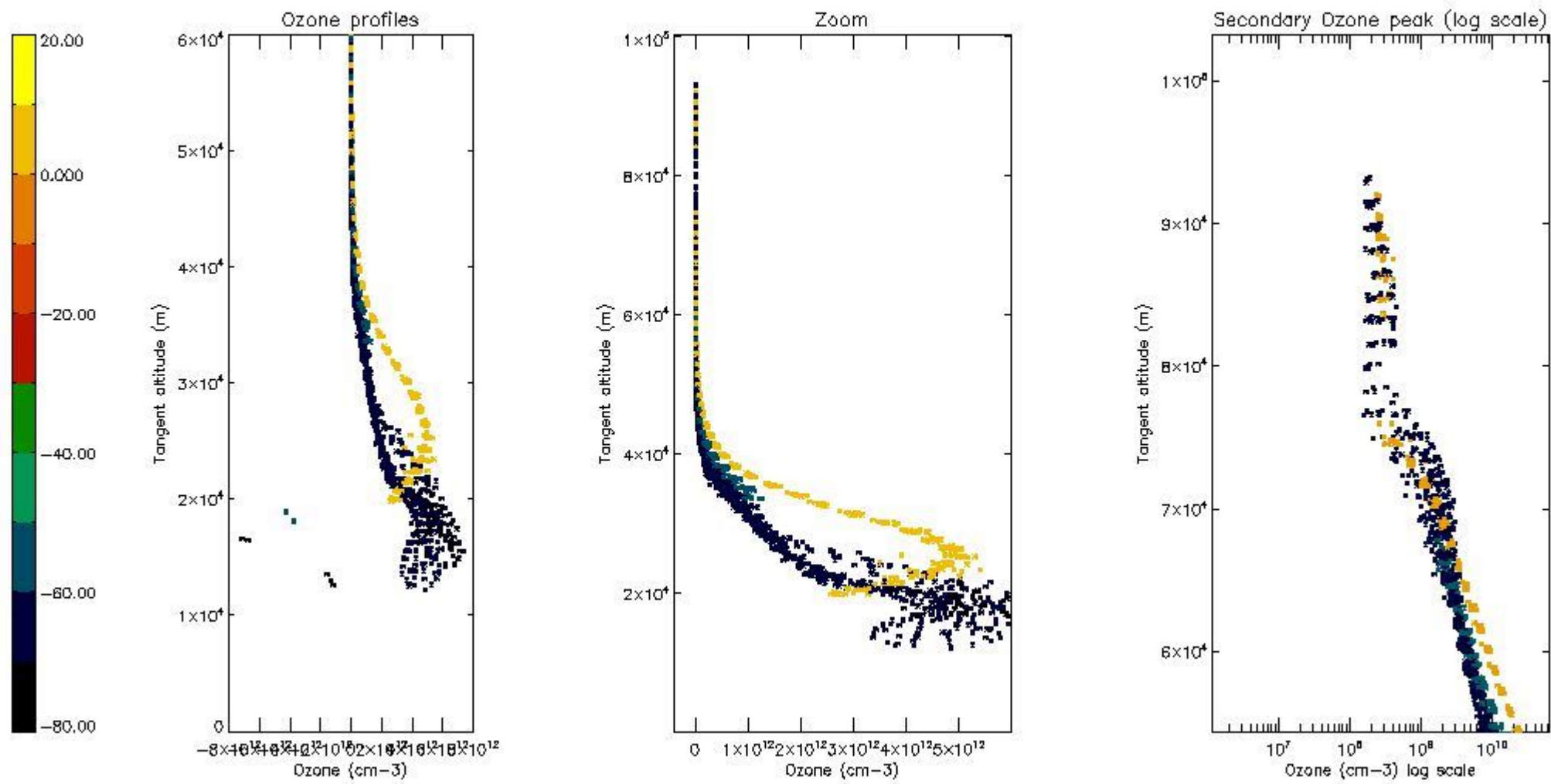
*5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)*

The colorbar represents the latitude.



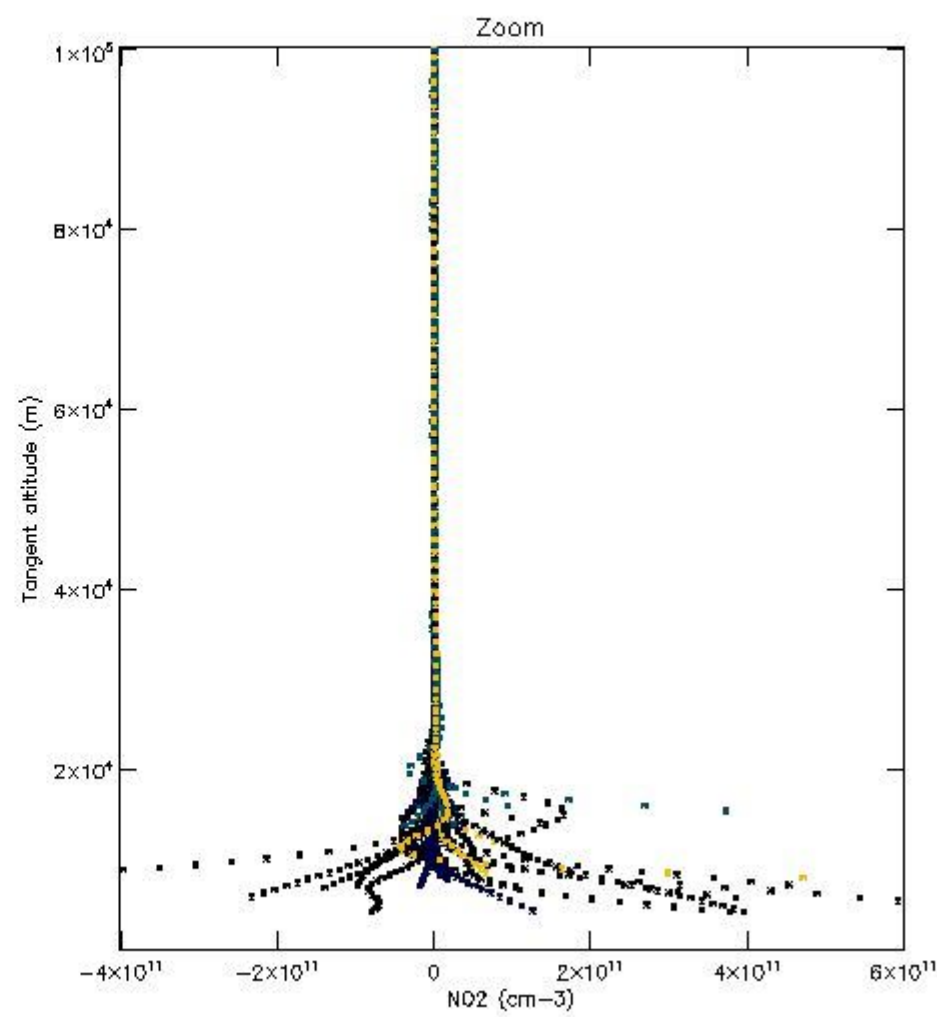
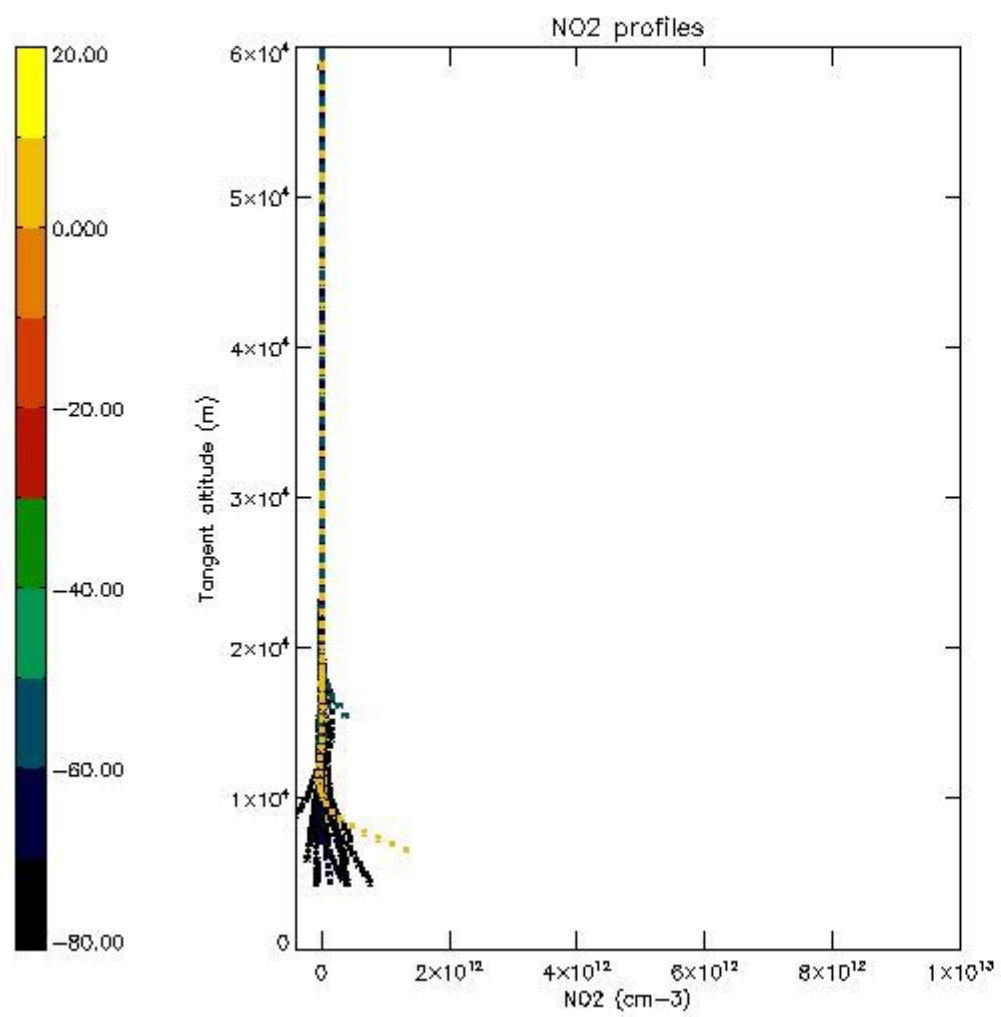
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



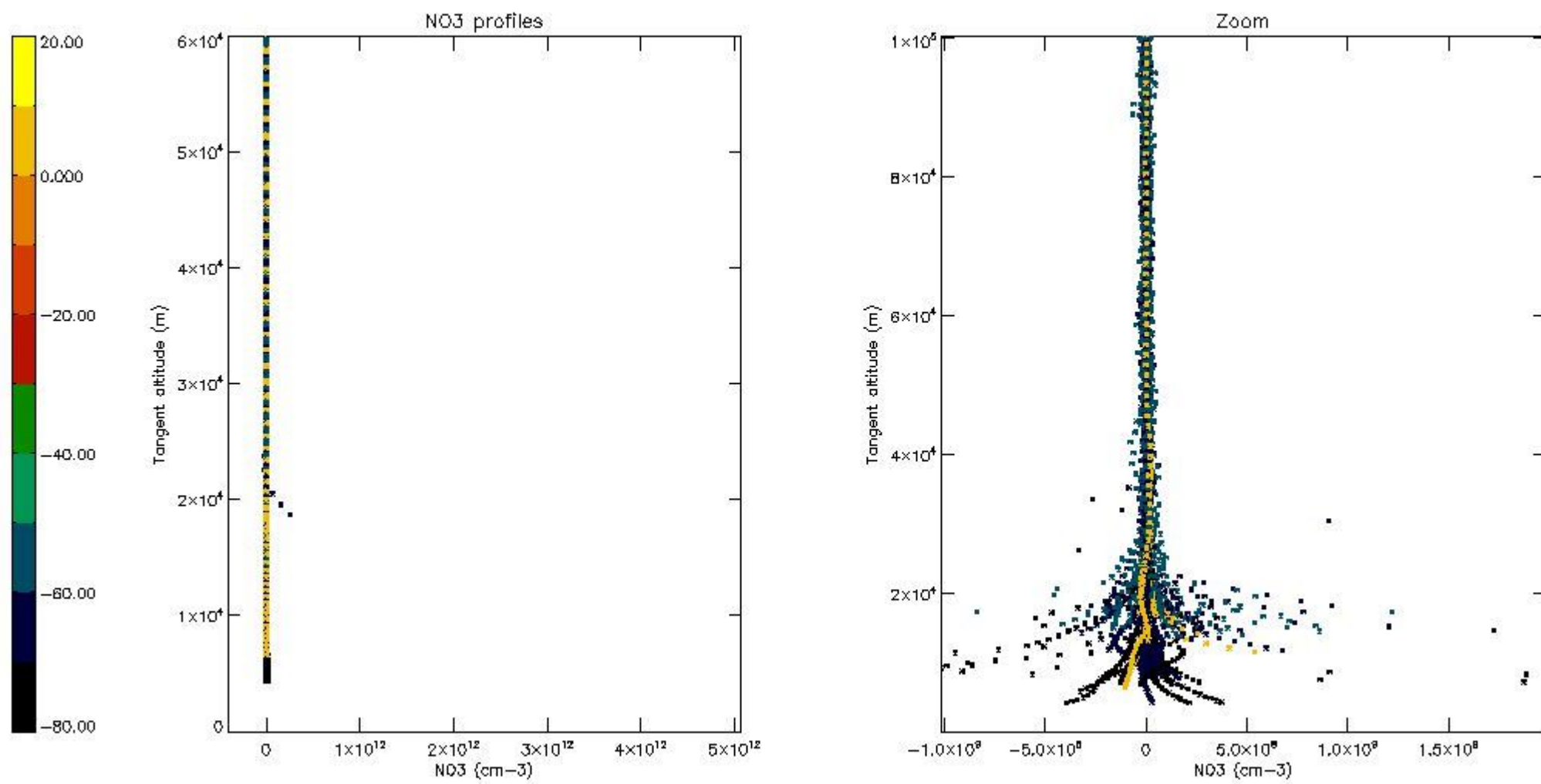
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



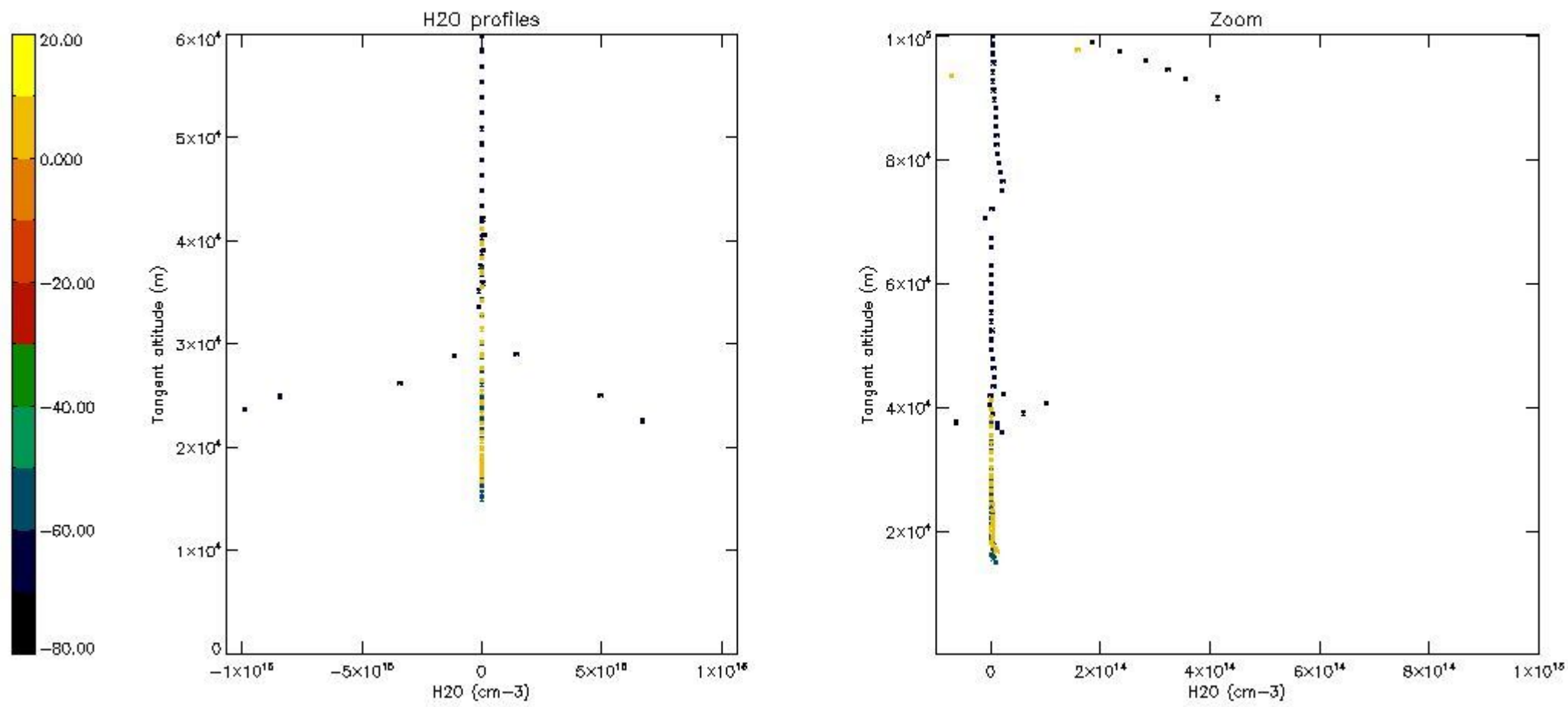
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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)

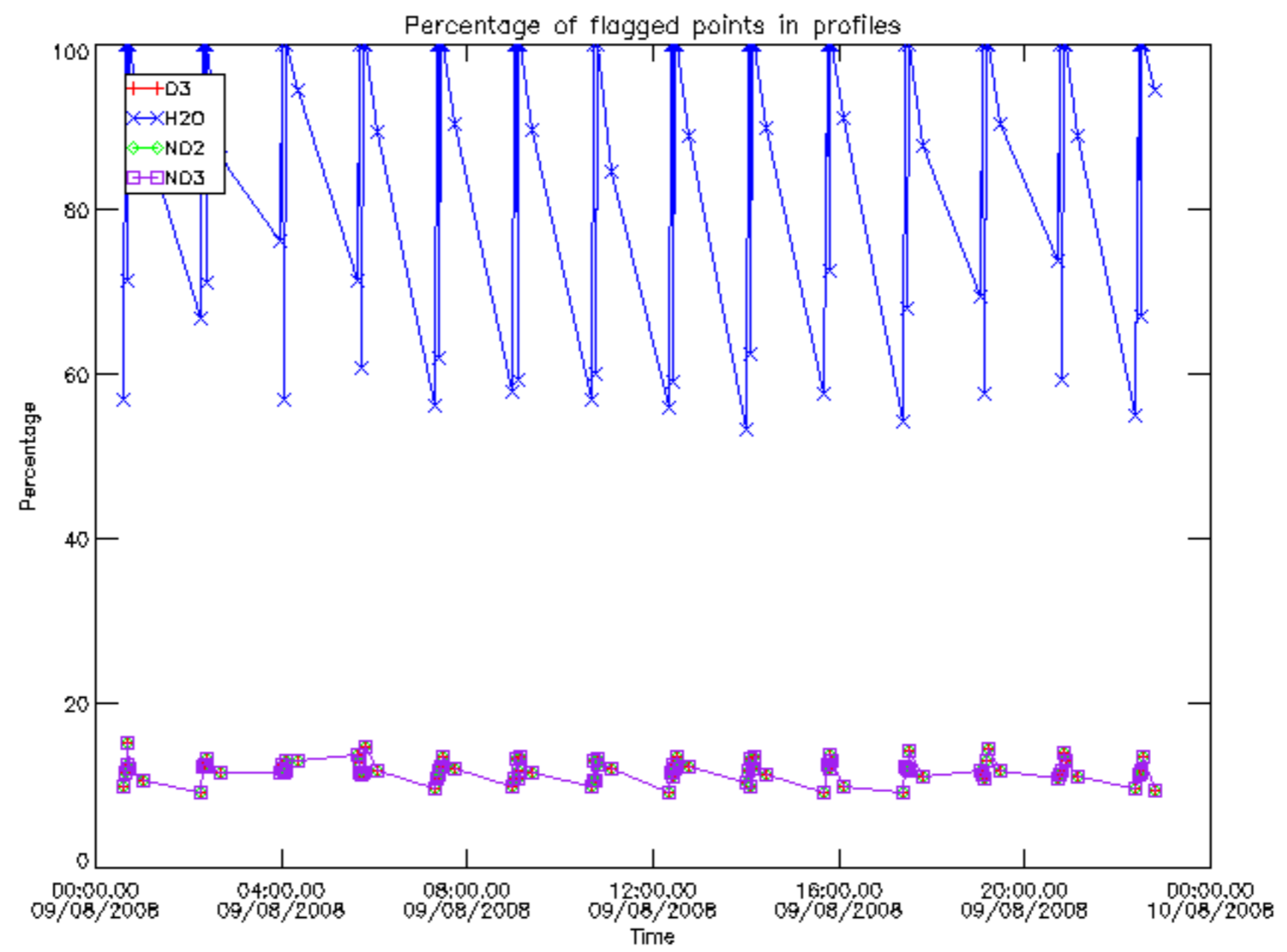
The colorbar represents the latitude.



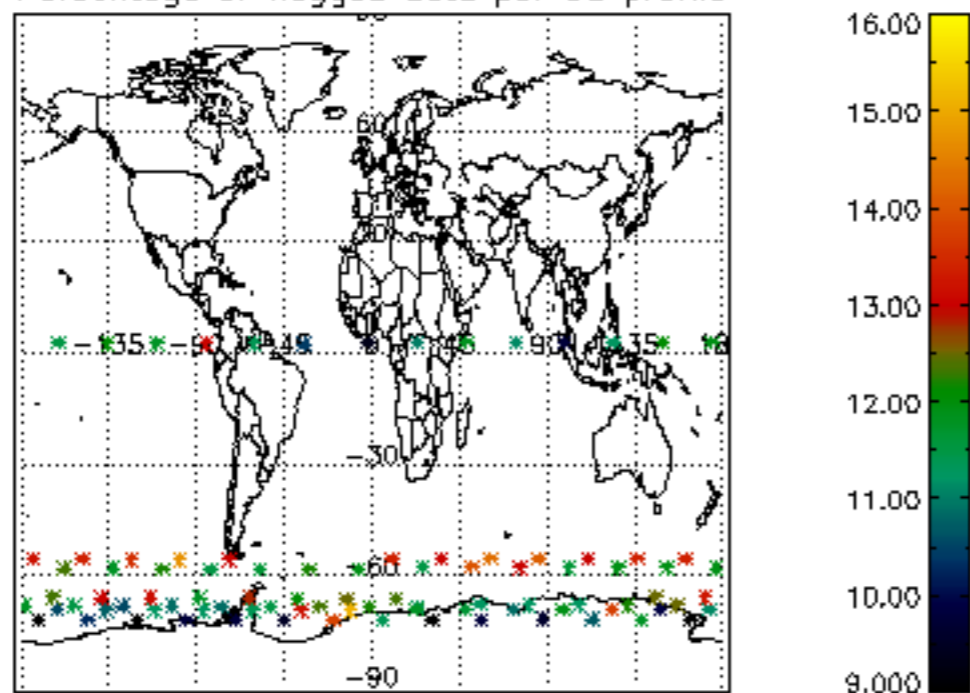
## 6. Auxiliary Data Files used for the production reported in section 2

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.

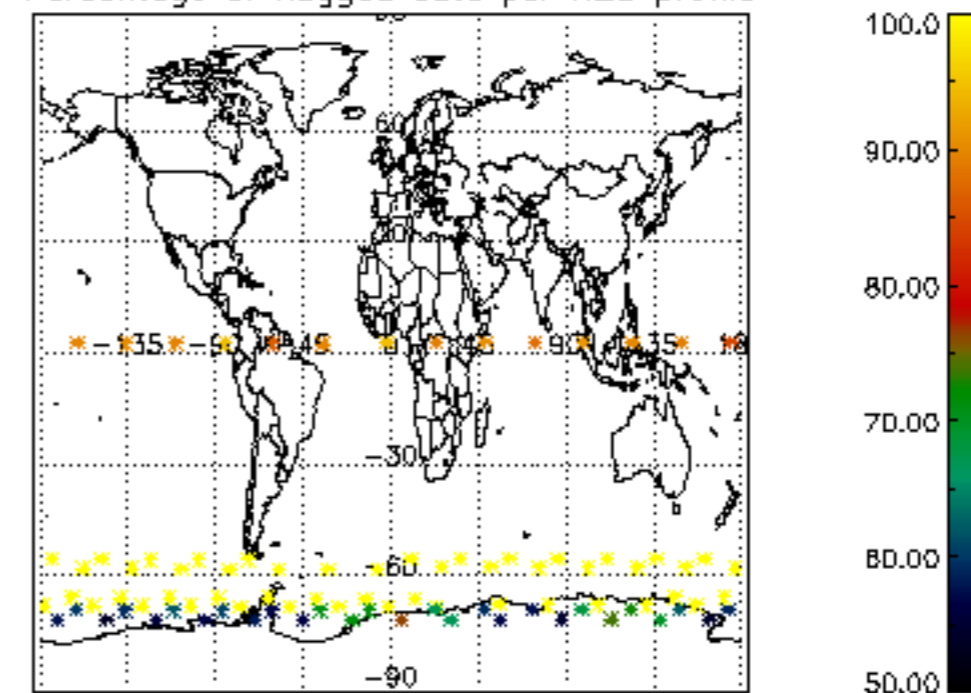
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-AUG-2008 00:01:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-AUG-2008 00:01:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-AUG-2008 00:01:18



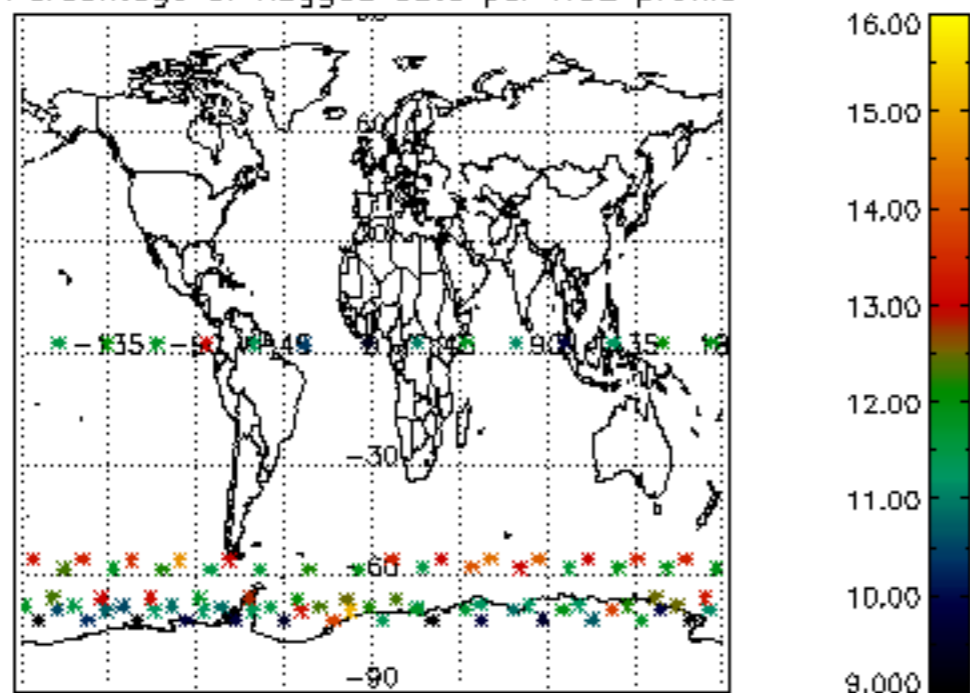
Percentage of flagged data per D3 profile



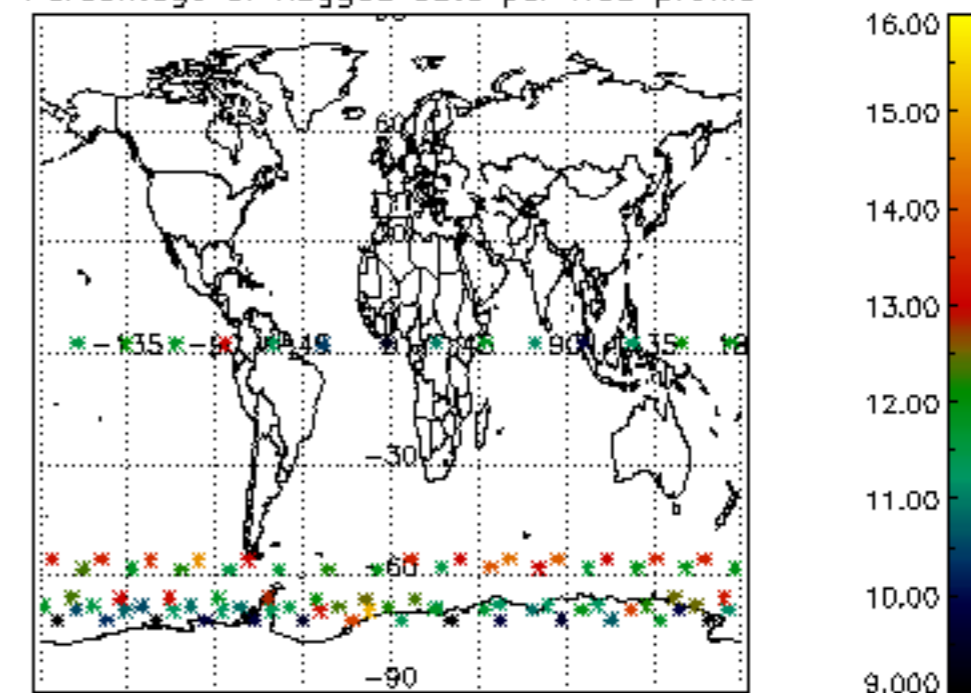
Percentage of flagged data per H2O profile



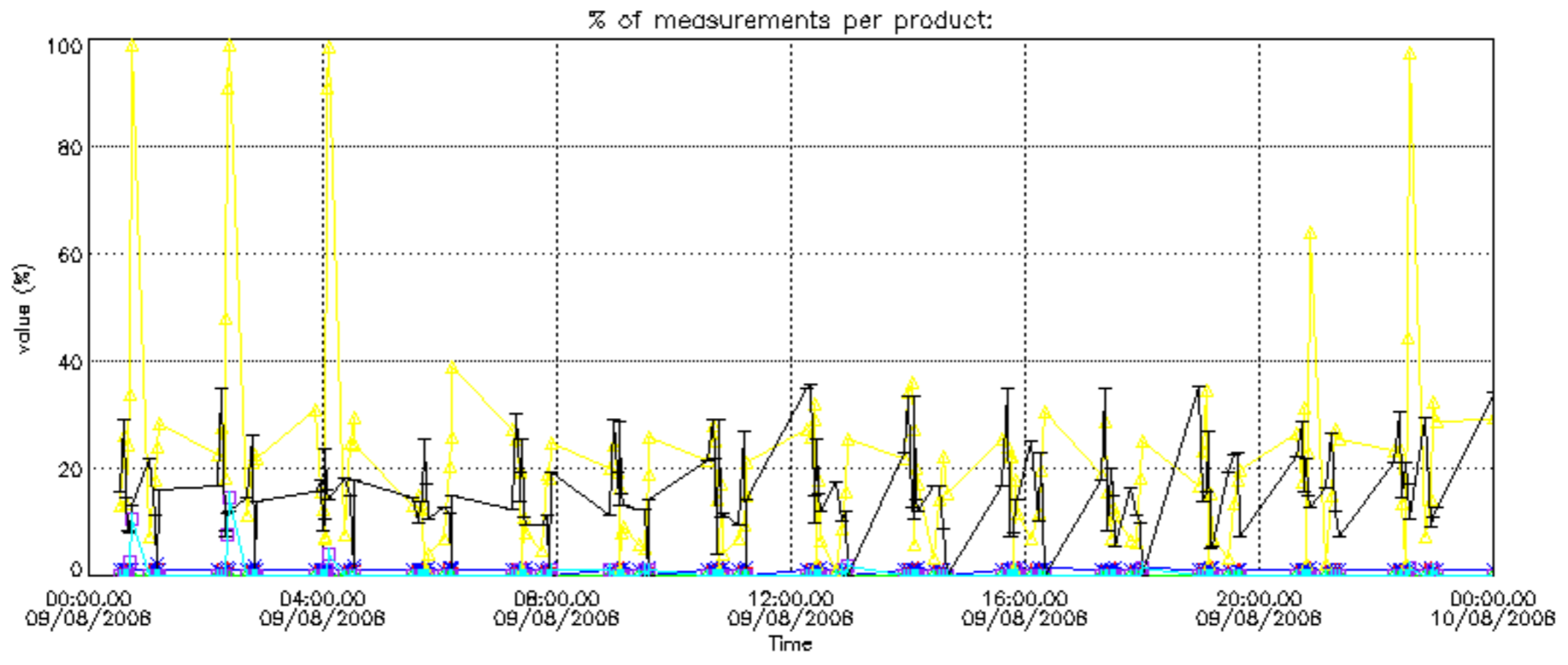
Percentage of flagged data per NO2 profile

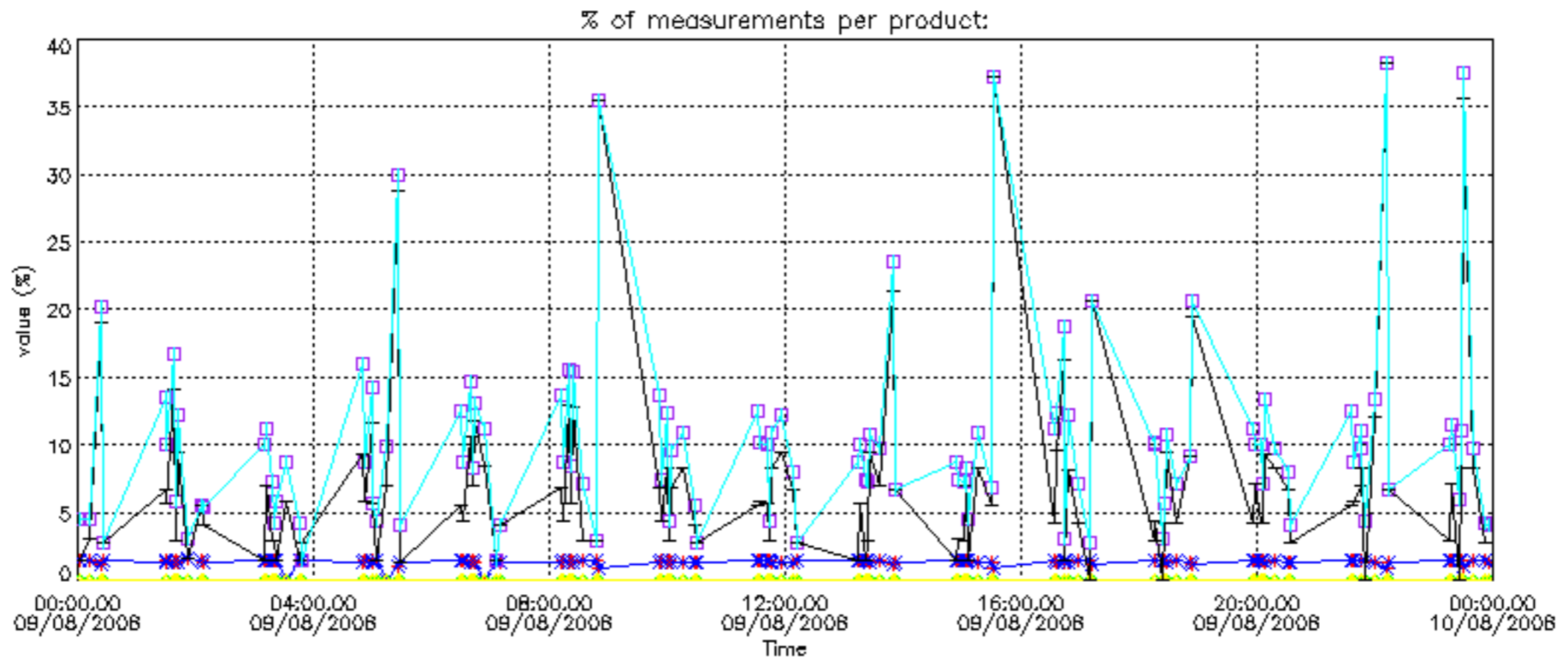


Percentage of flagged data per NO3 profile

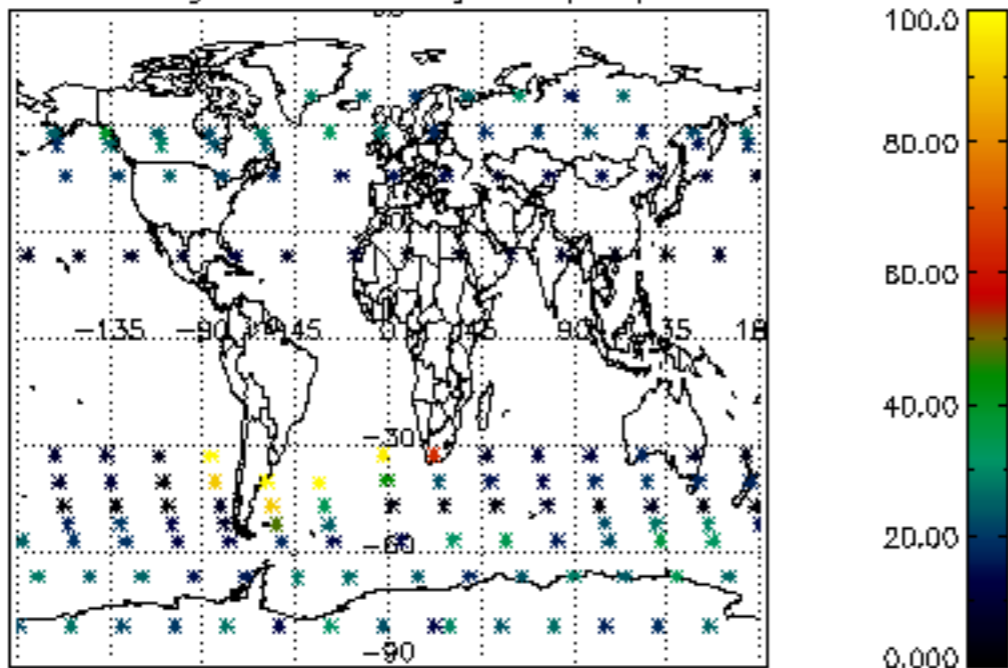




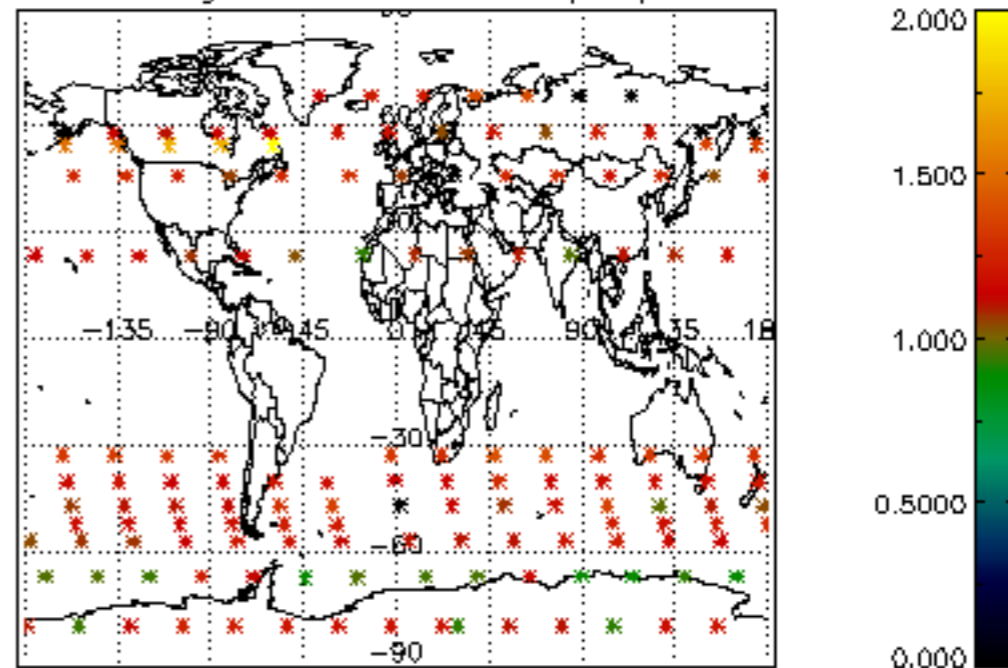




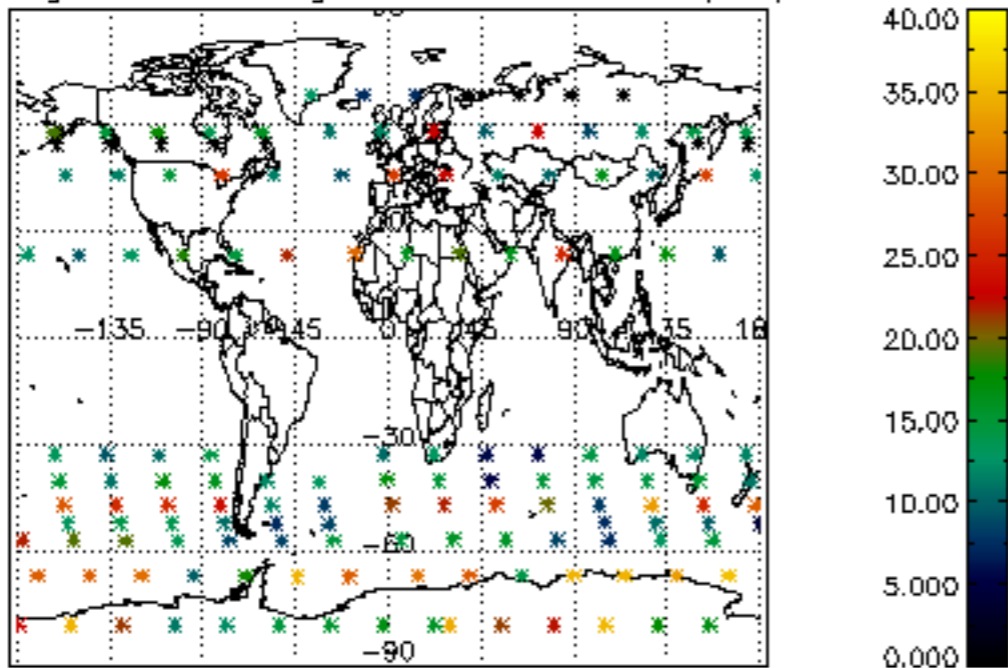
Percentage of cosmic ray hits per profile



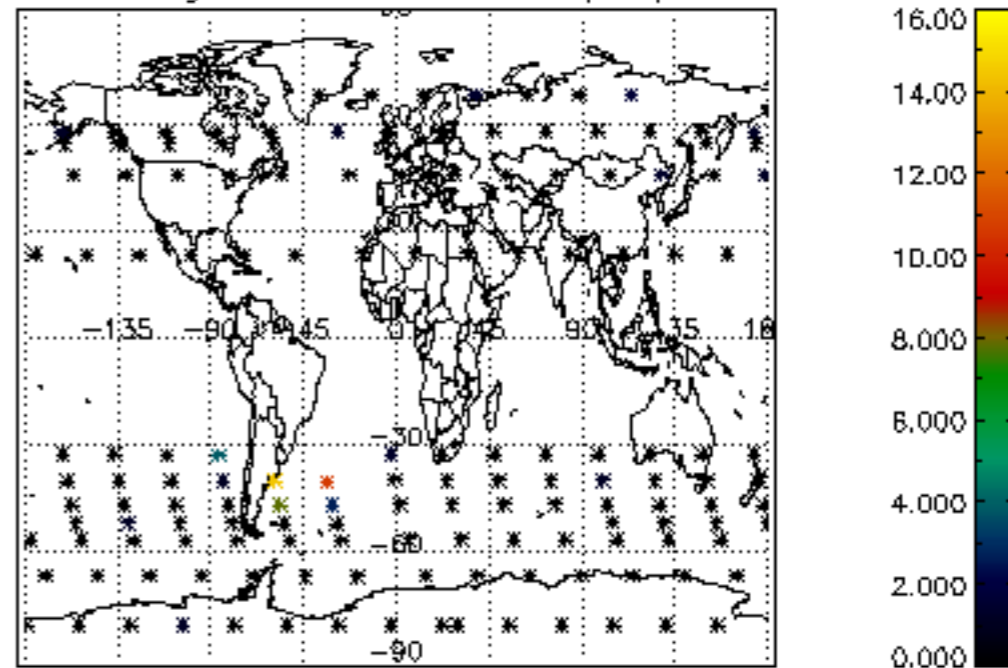
Percentage of datation errors per profile



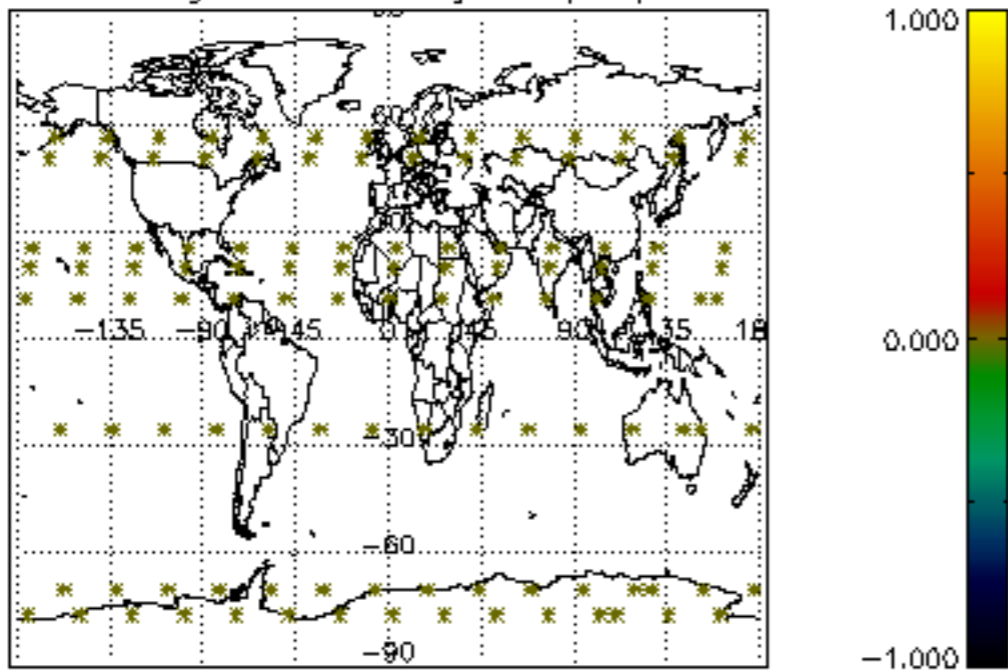
Percentage of star falling outside central band per profile



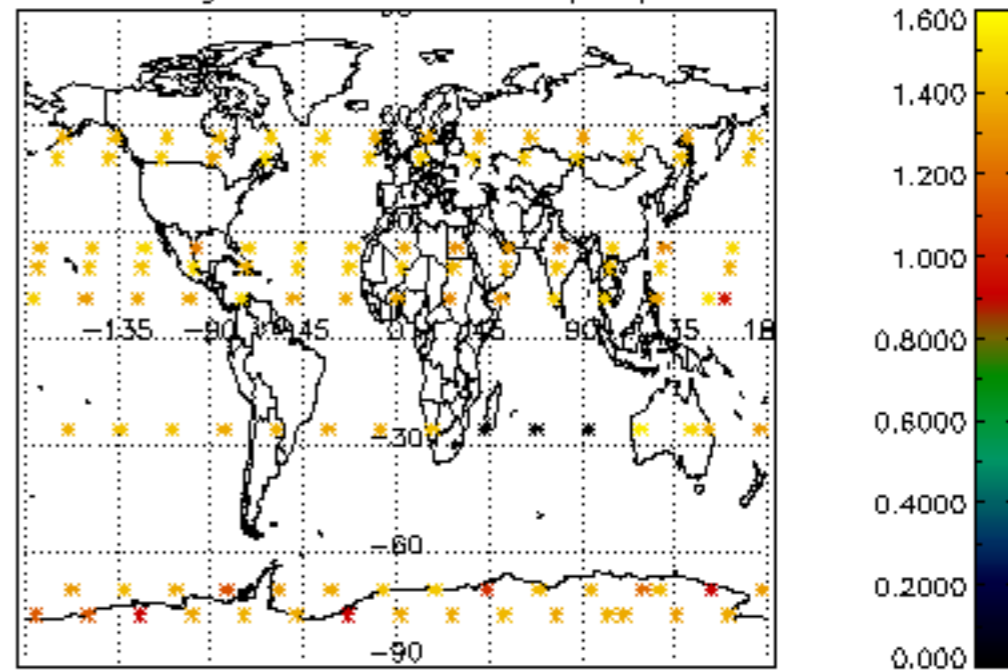
Percentage of saturation errors per profile



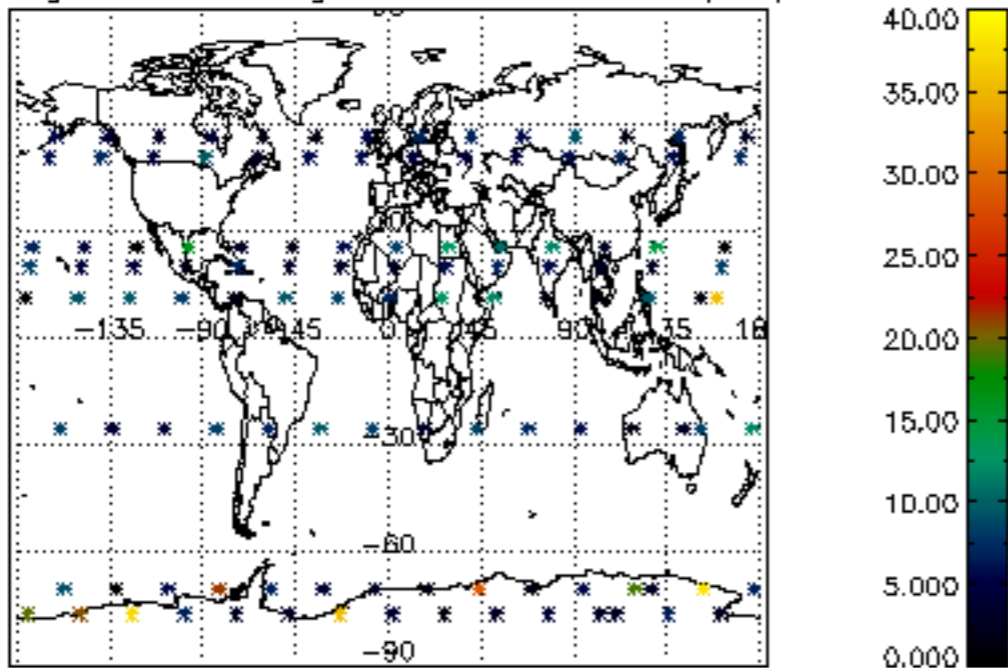
Percentage of cosmic ray hits per profile



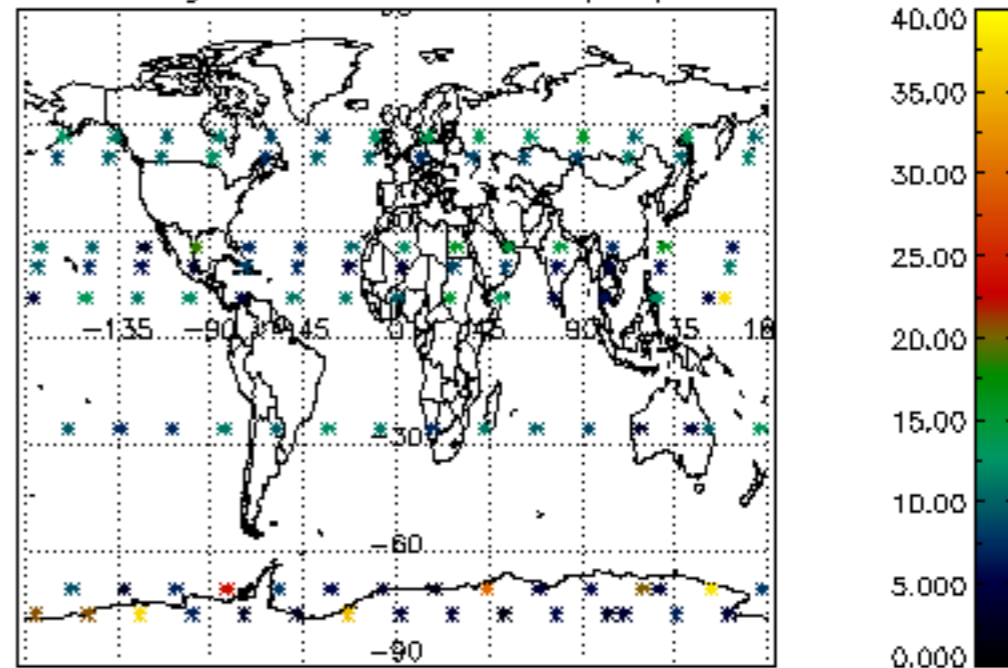
Percentage of datation errors per profile

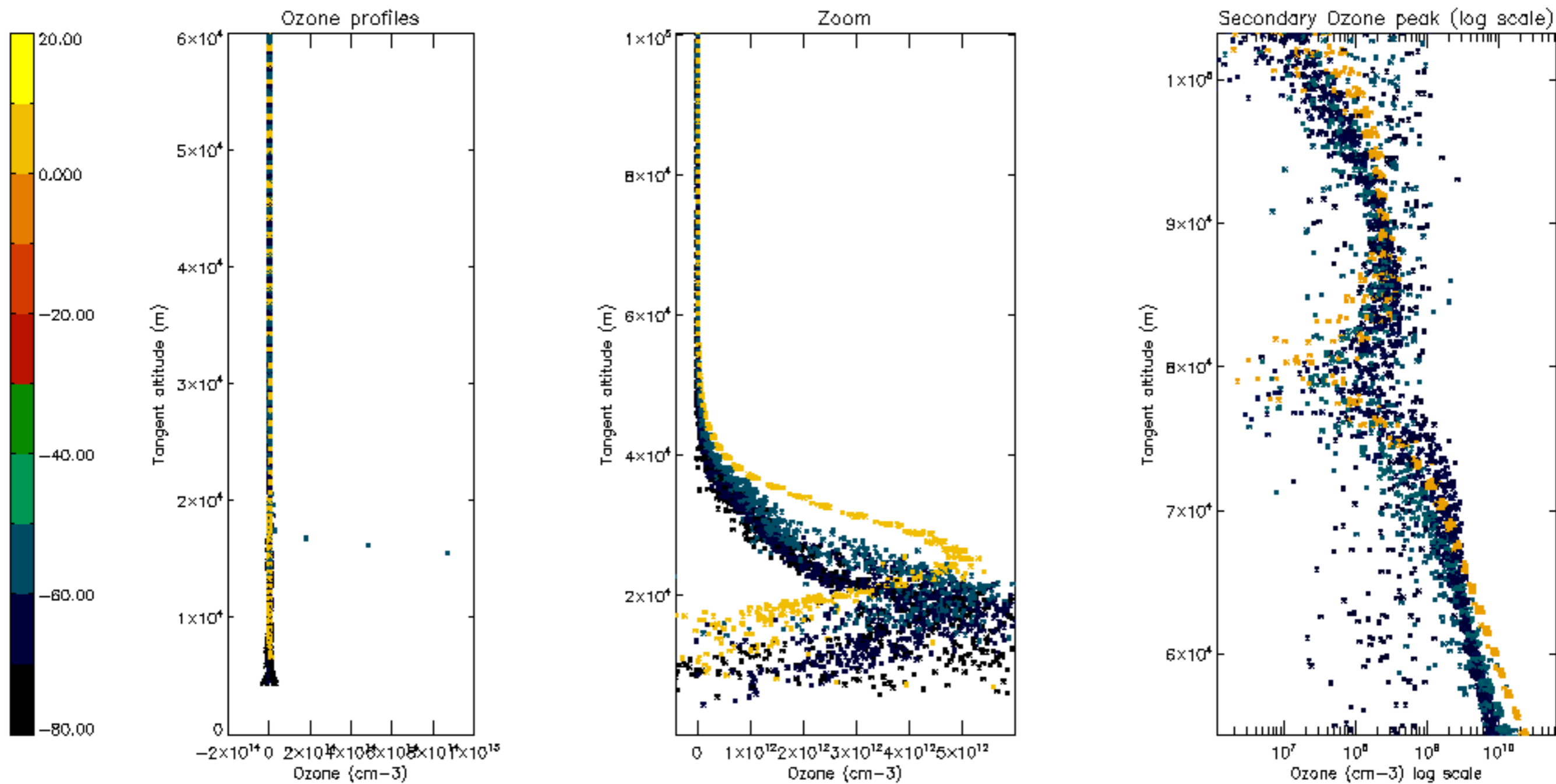


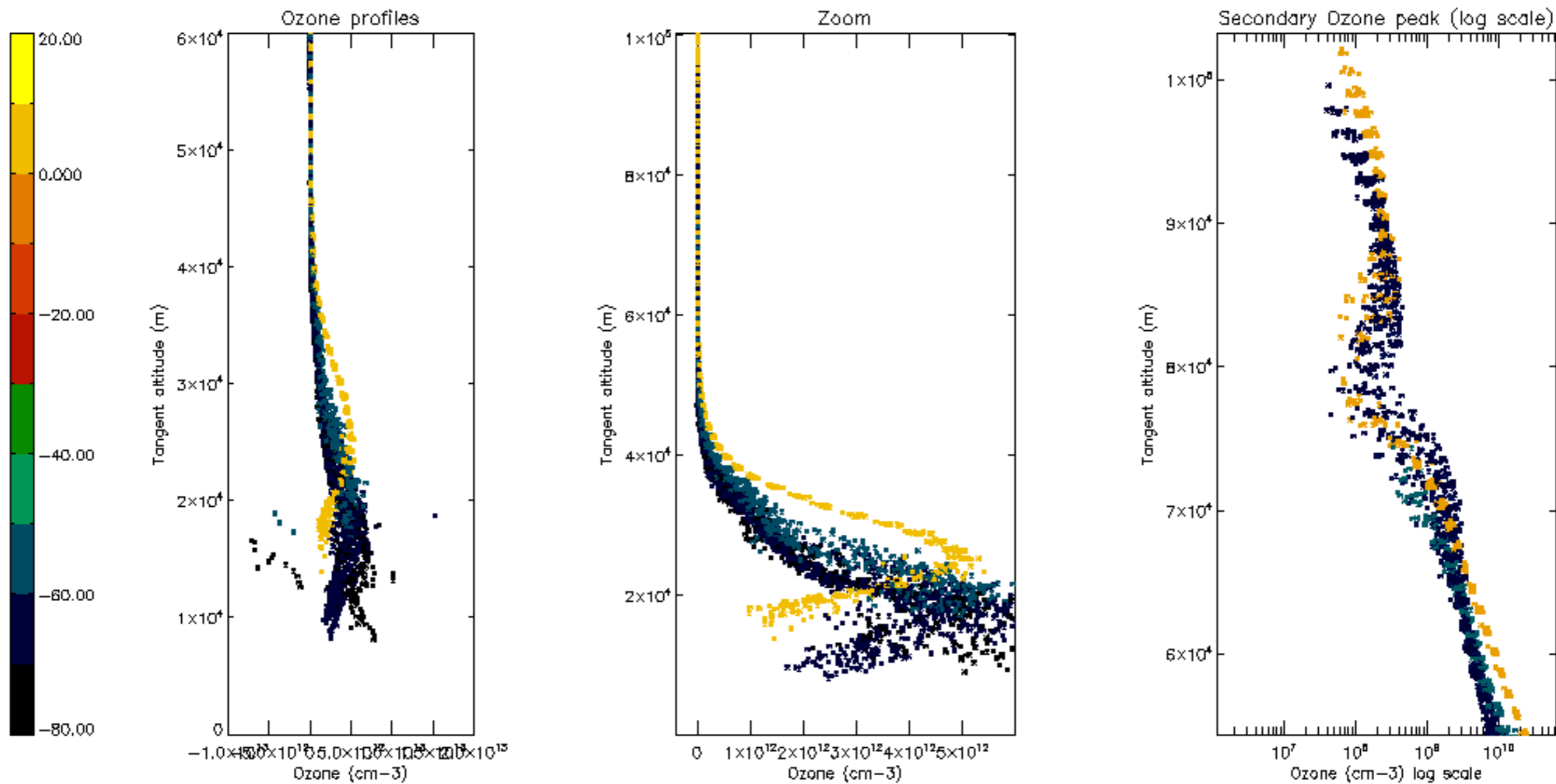
Percentage of star falling outside central band per profile

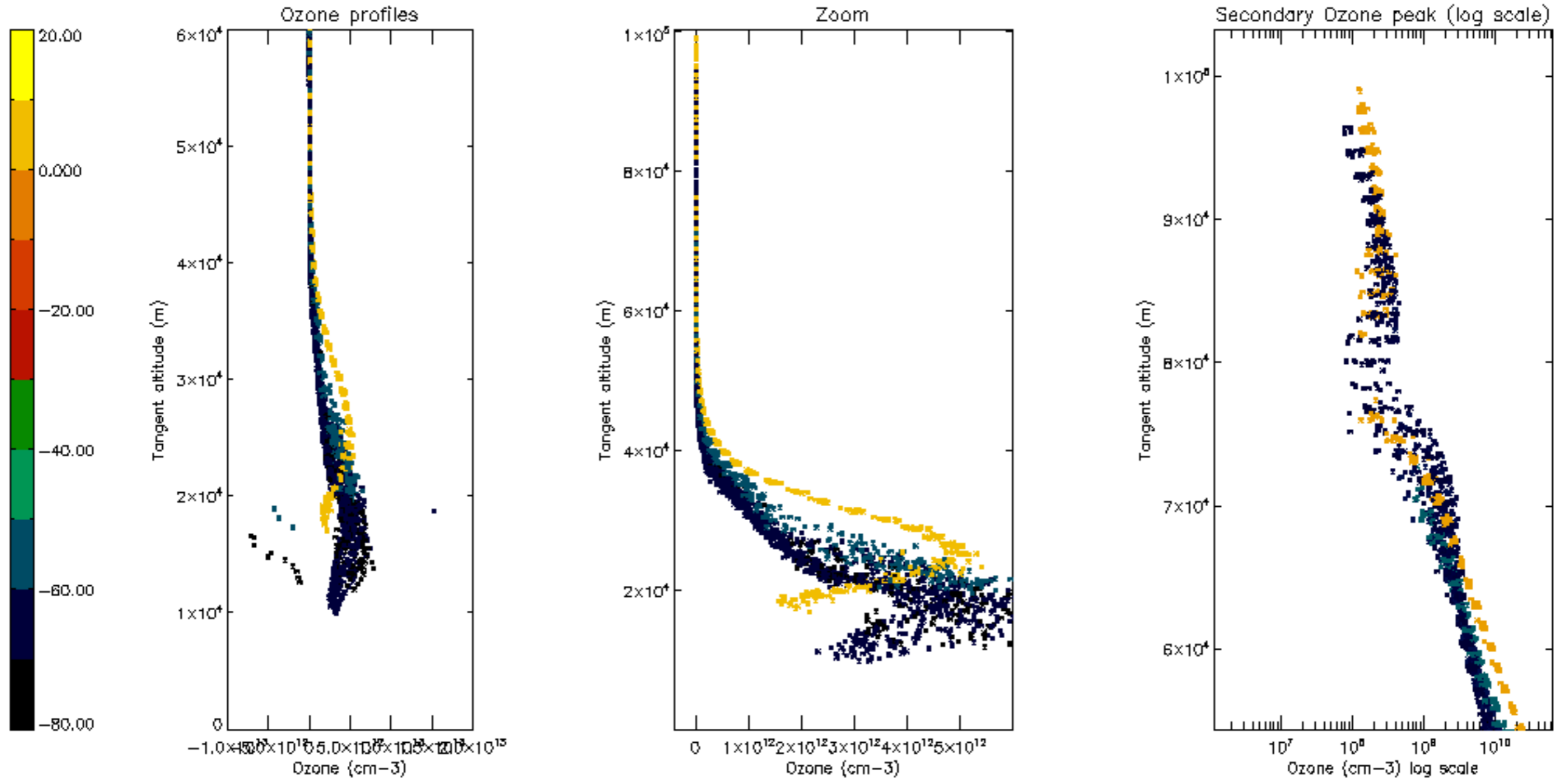


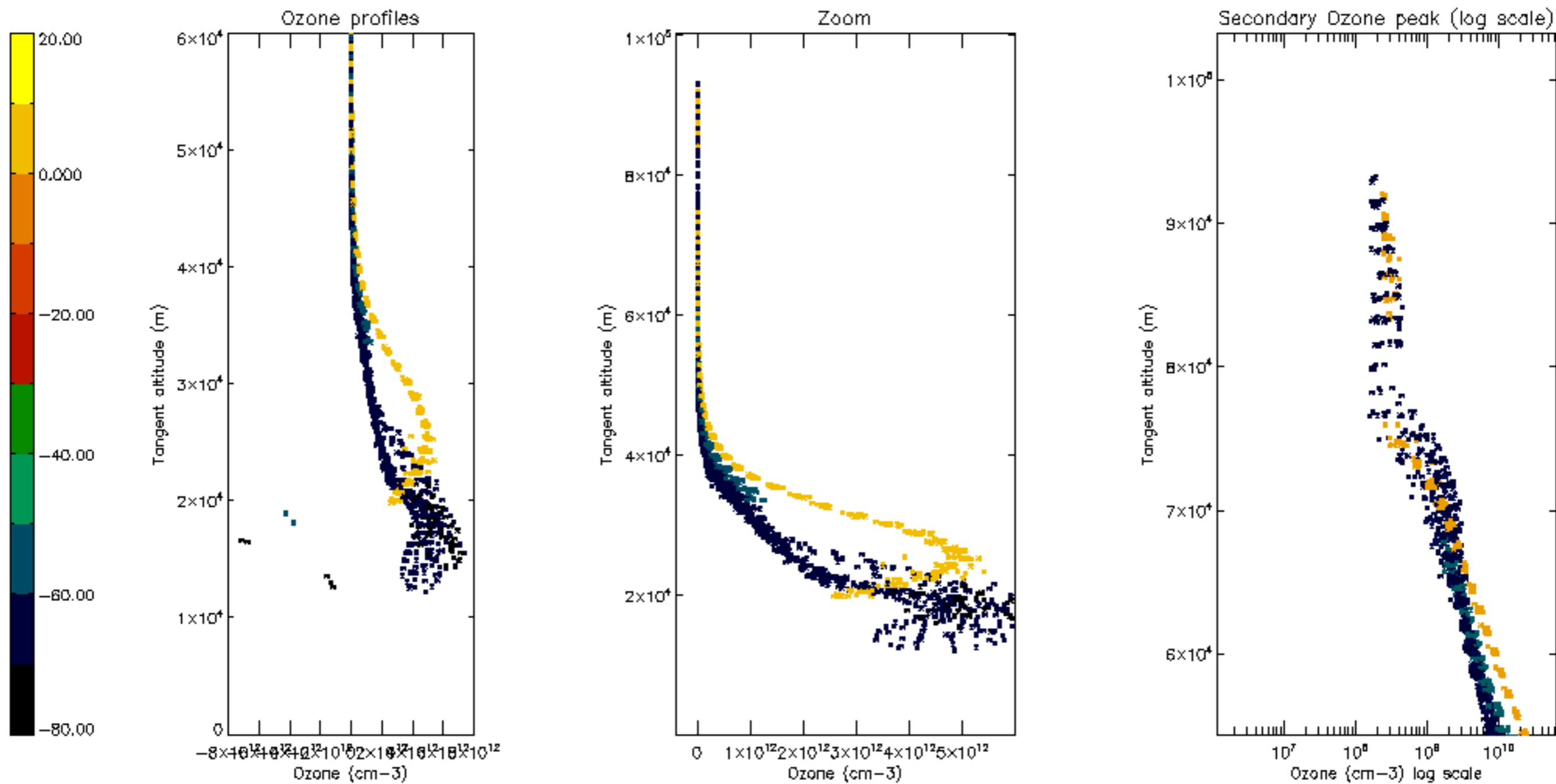
Percentage of saturation errors per profile



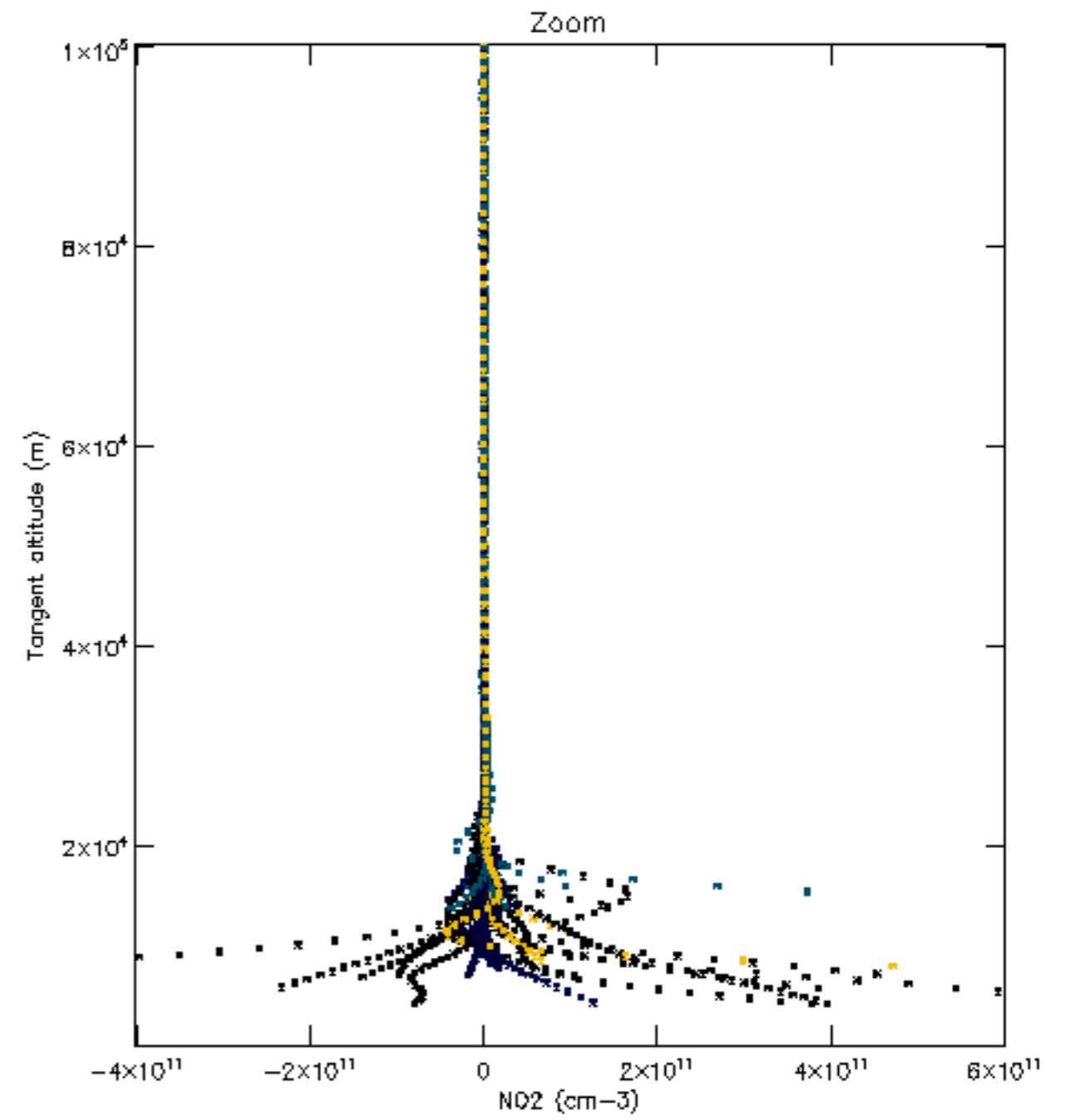
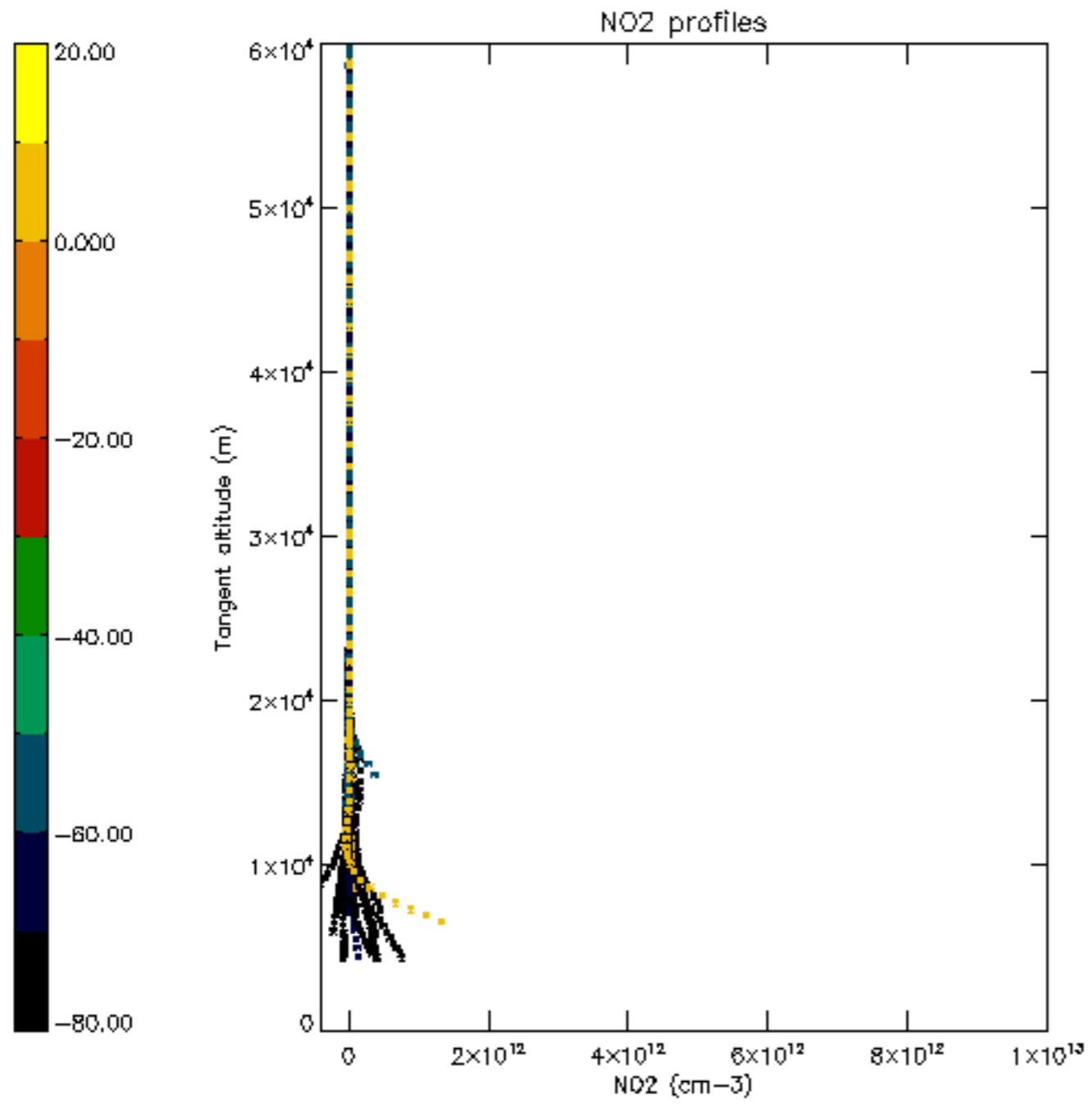


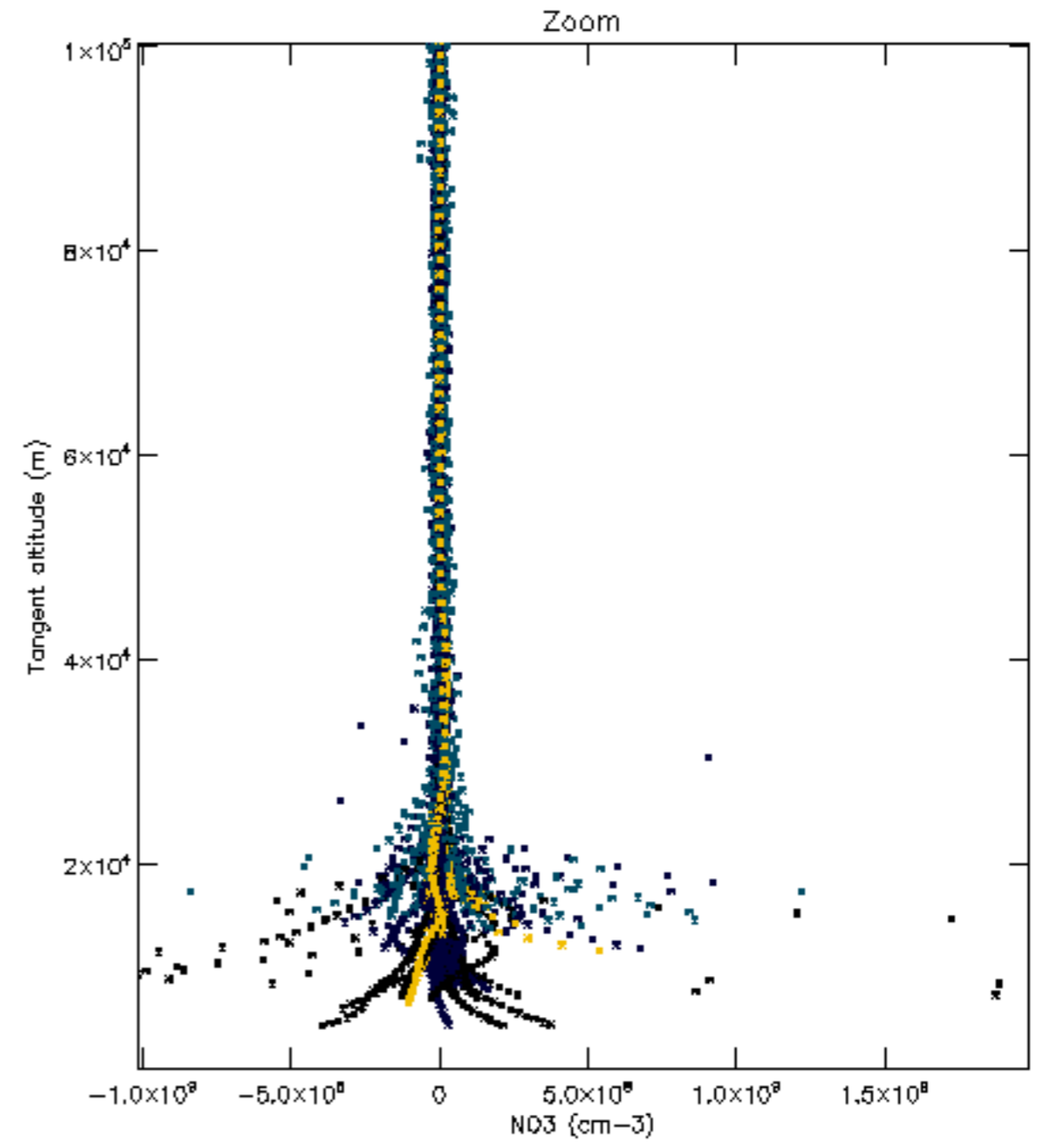
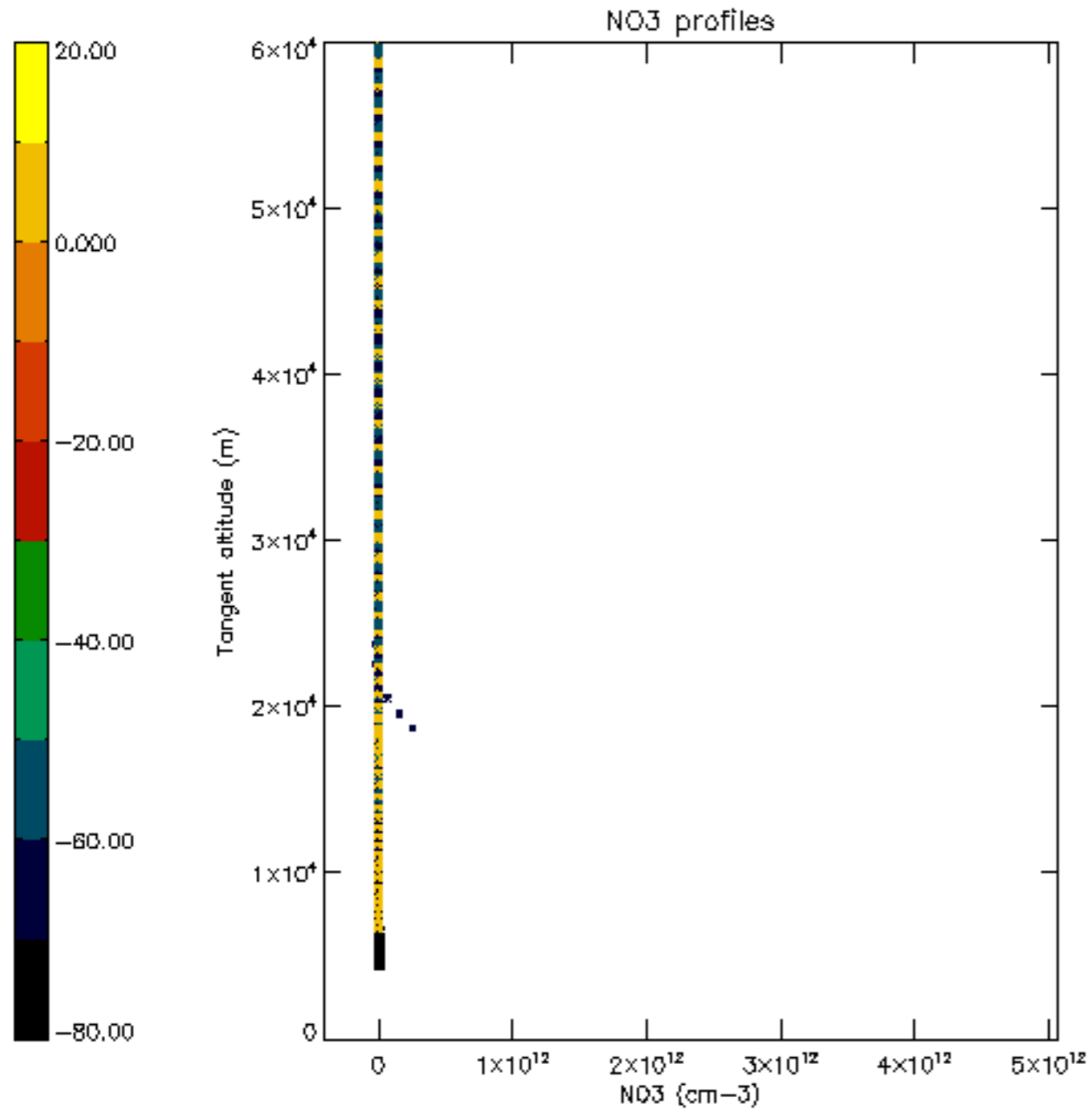


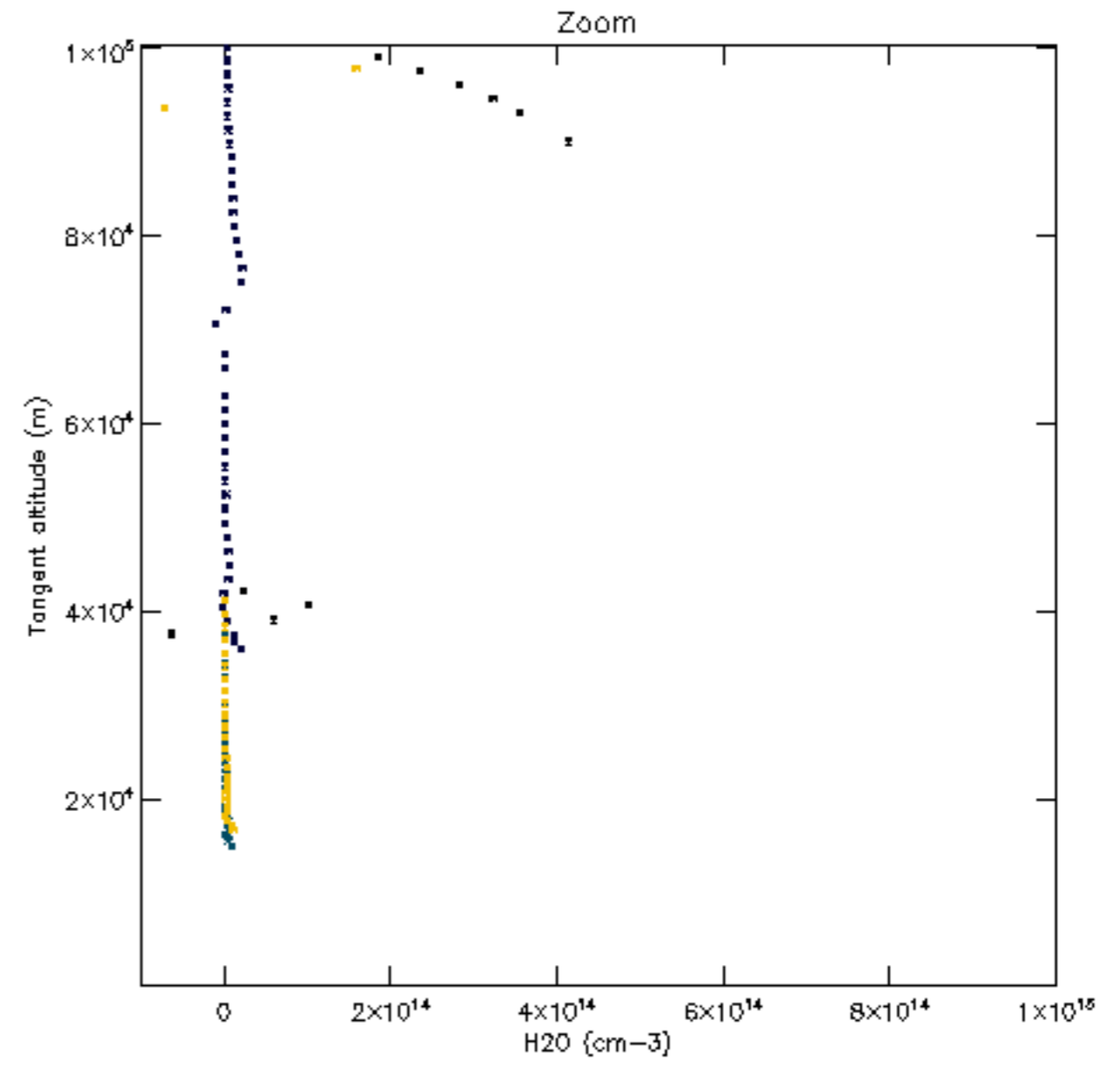
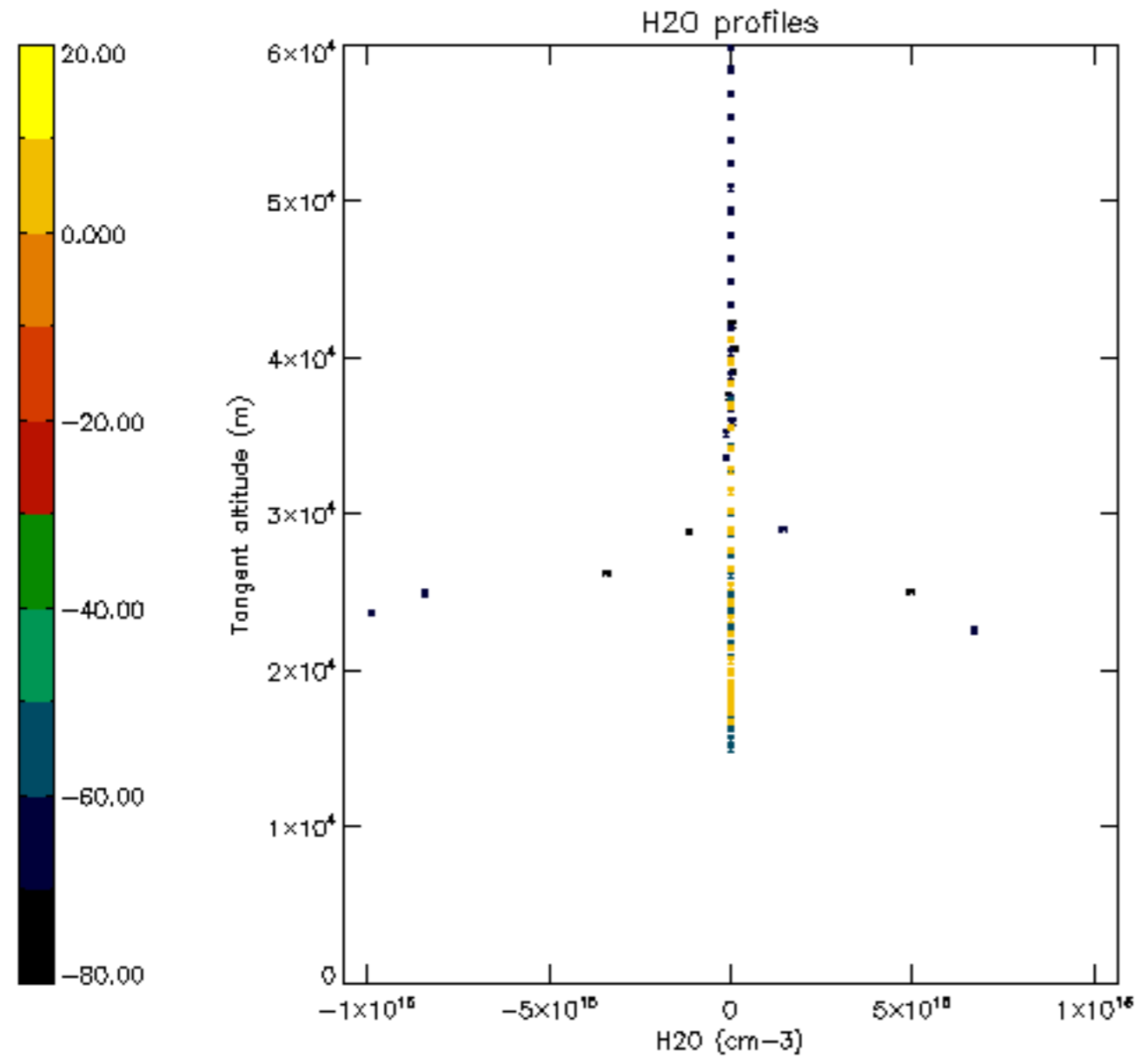


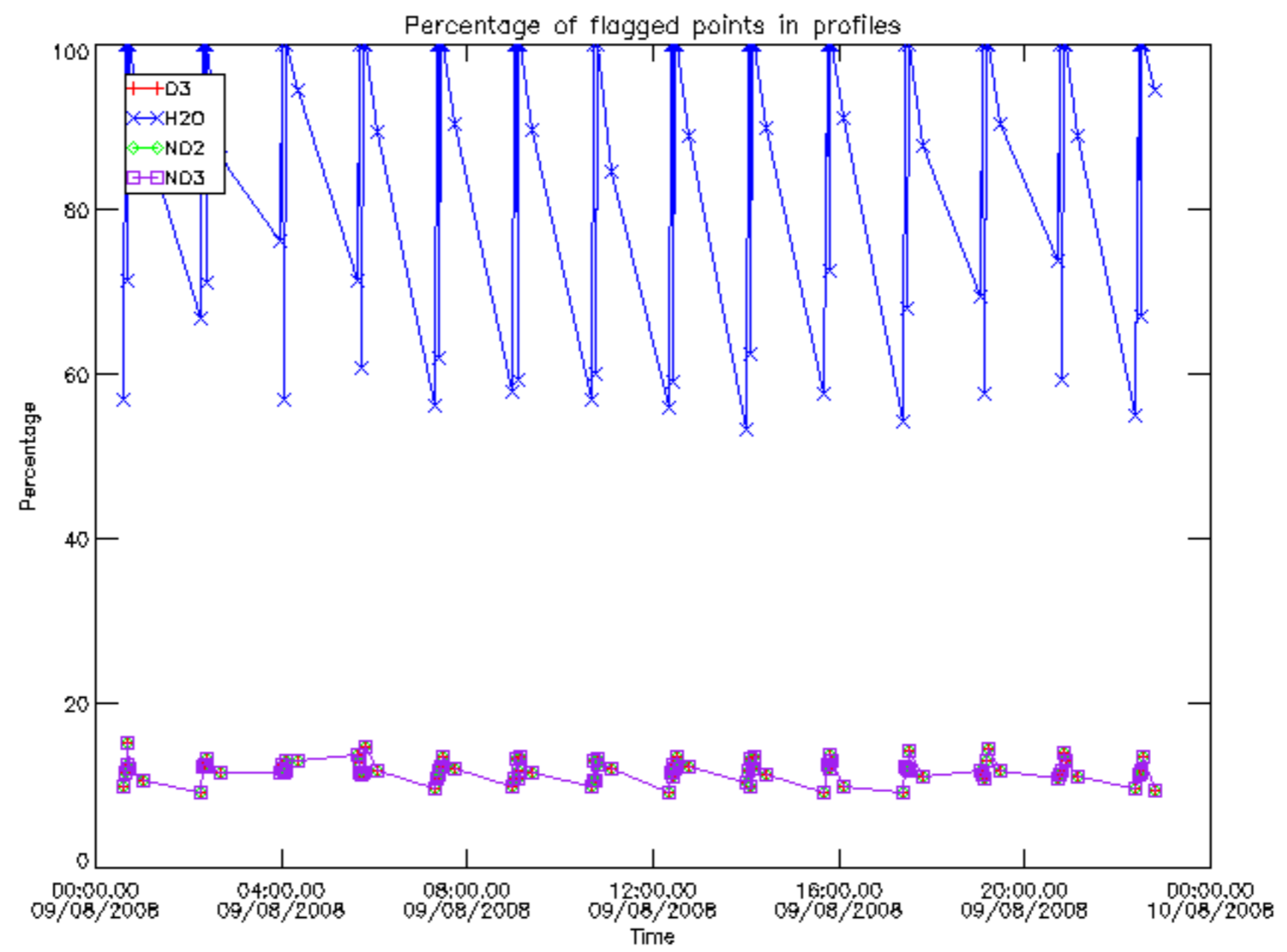




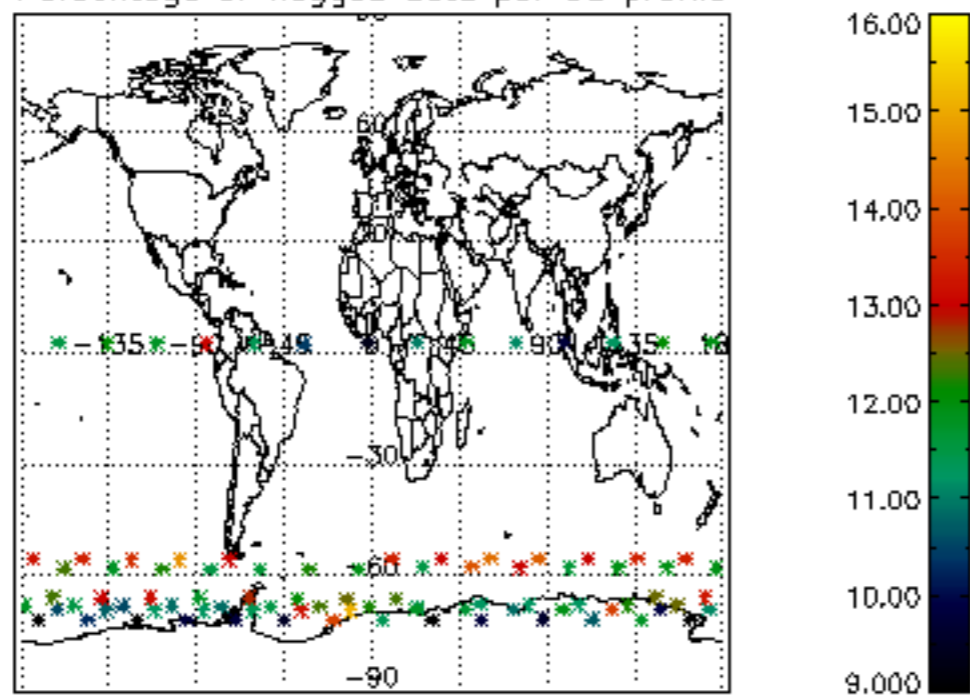




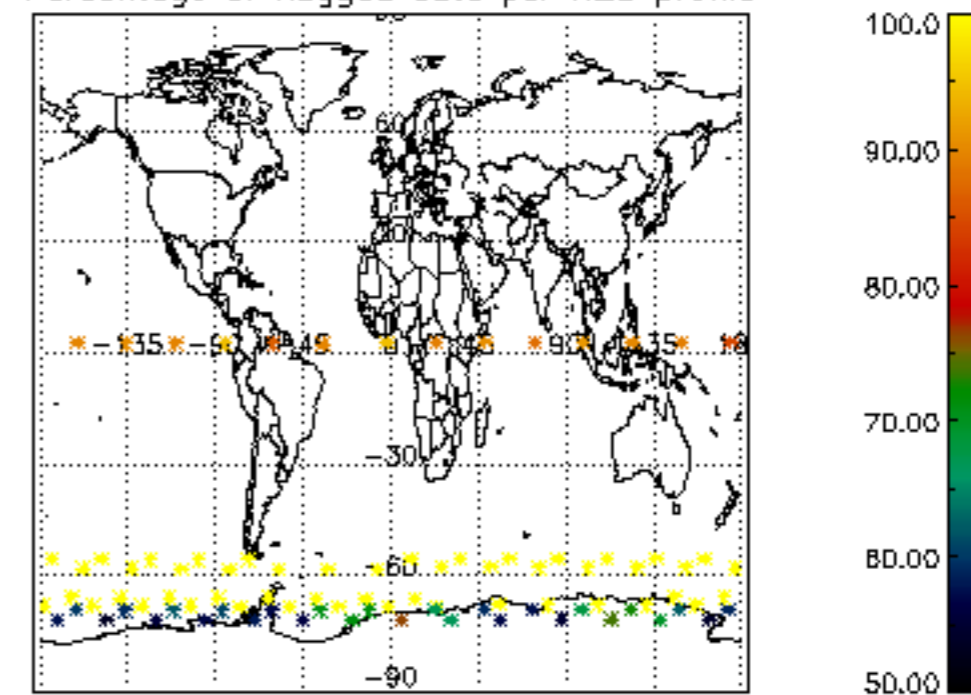




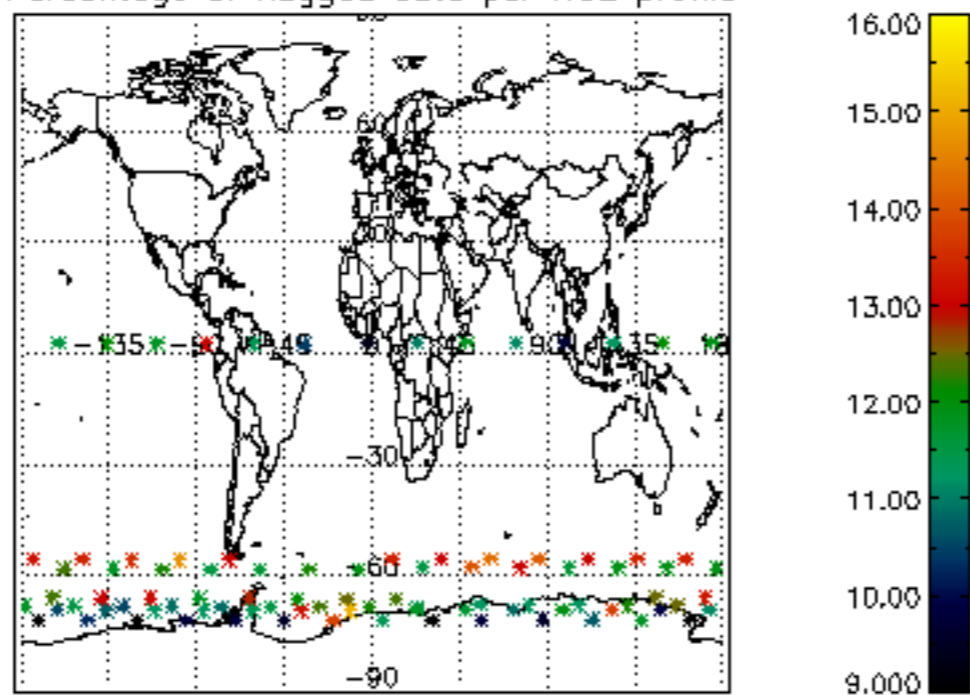
Percentage of flagged data per D3 profile



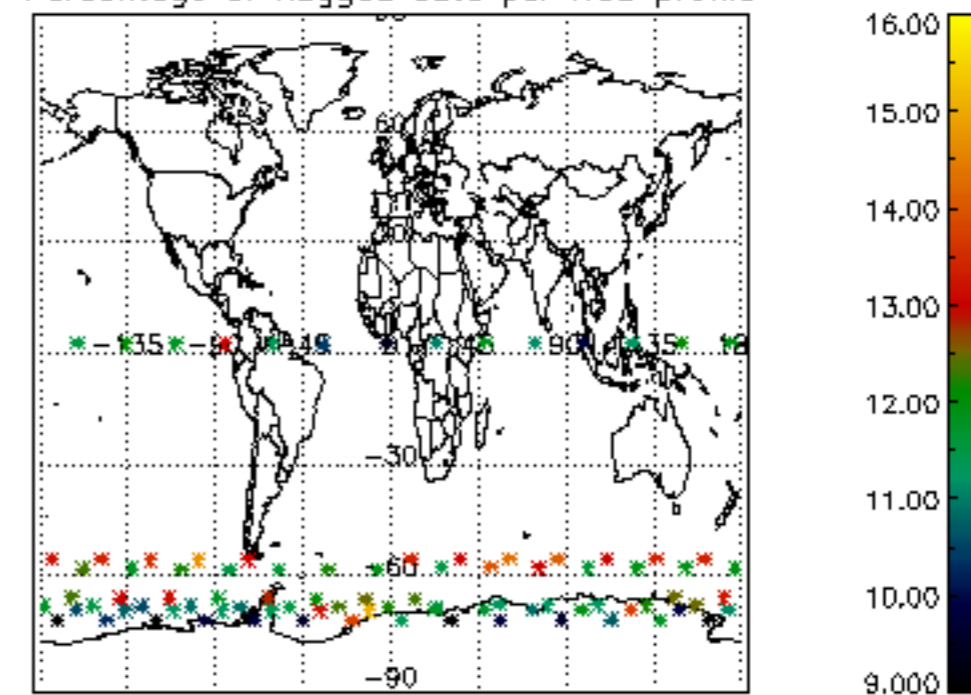
Percentage of flagged data per H2O profile

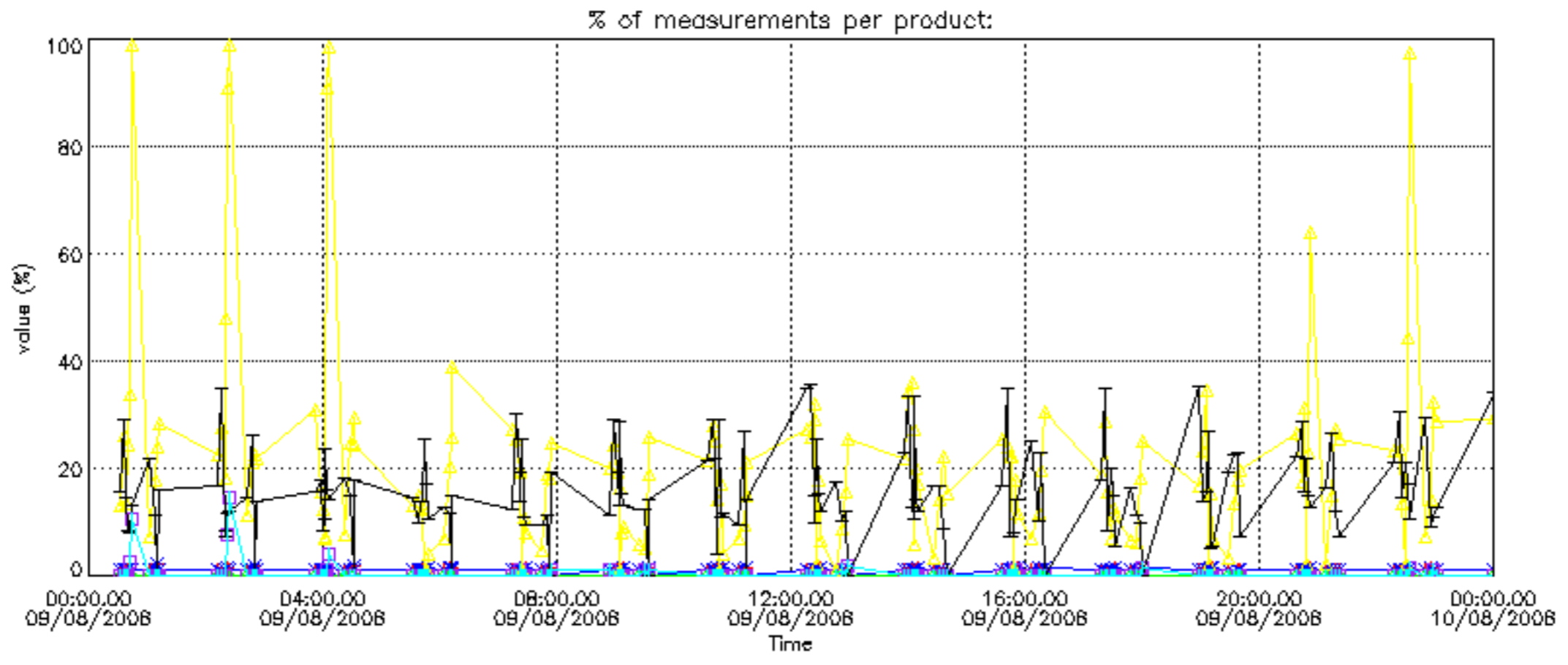


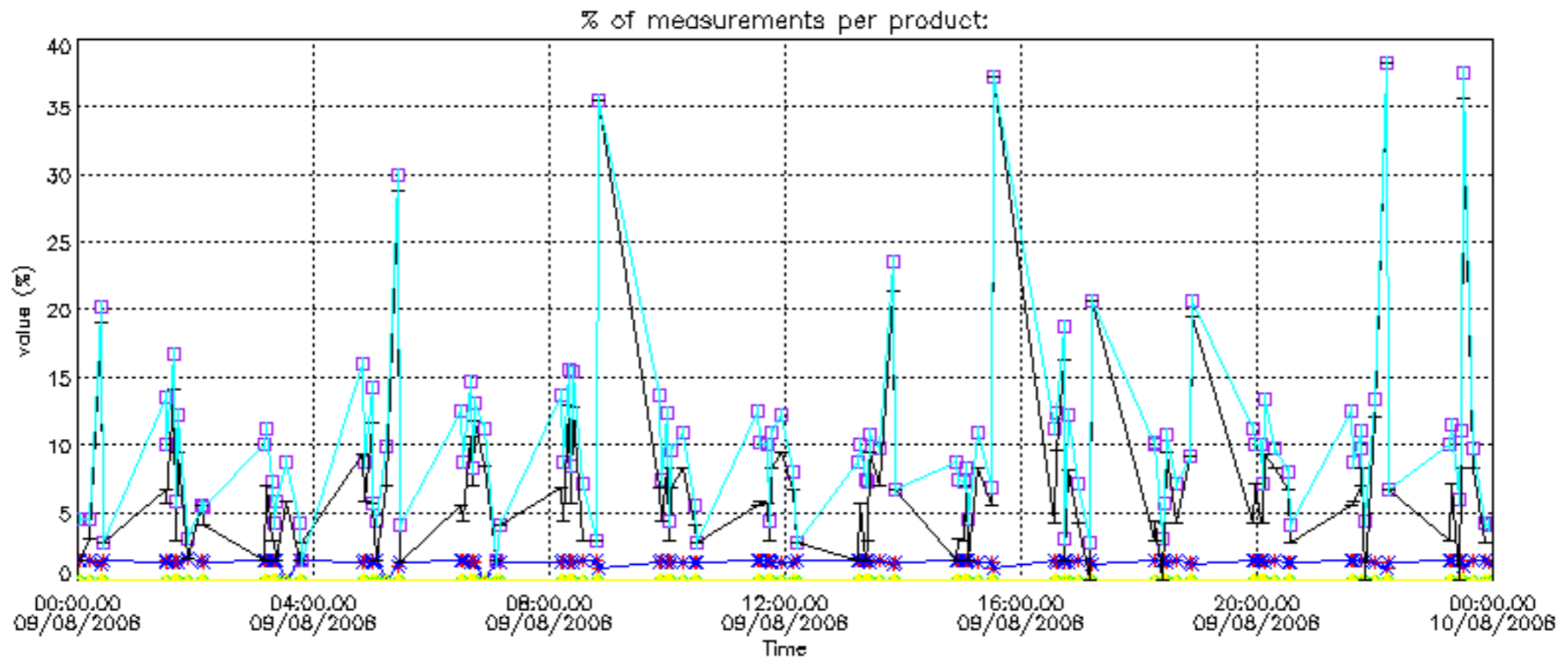
Percentage of flagged data per NO2 profile



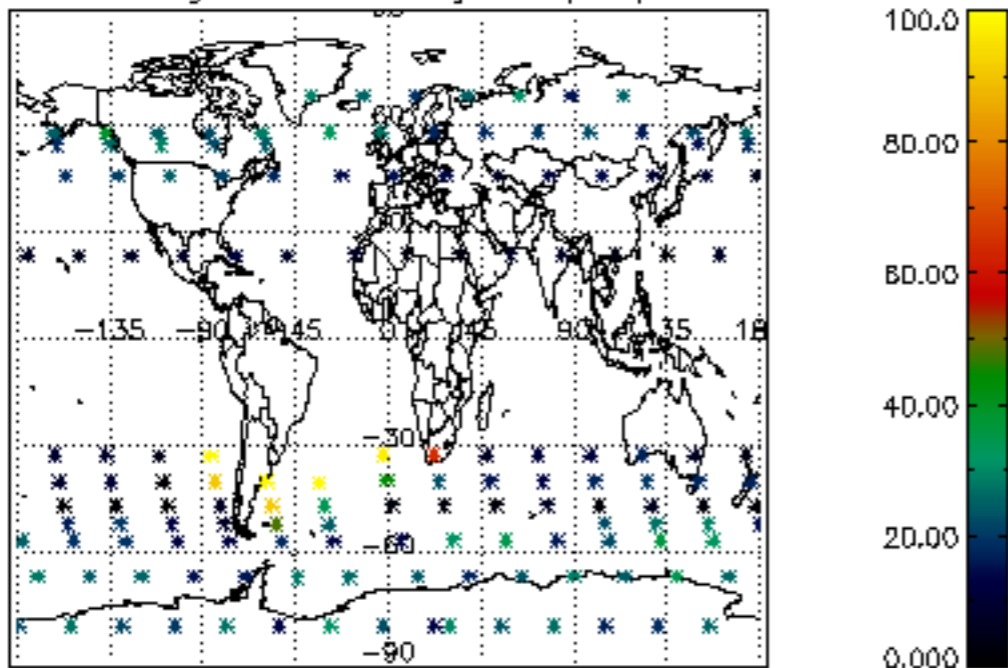
Percentage of flagged data per NO3 profile



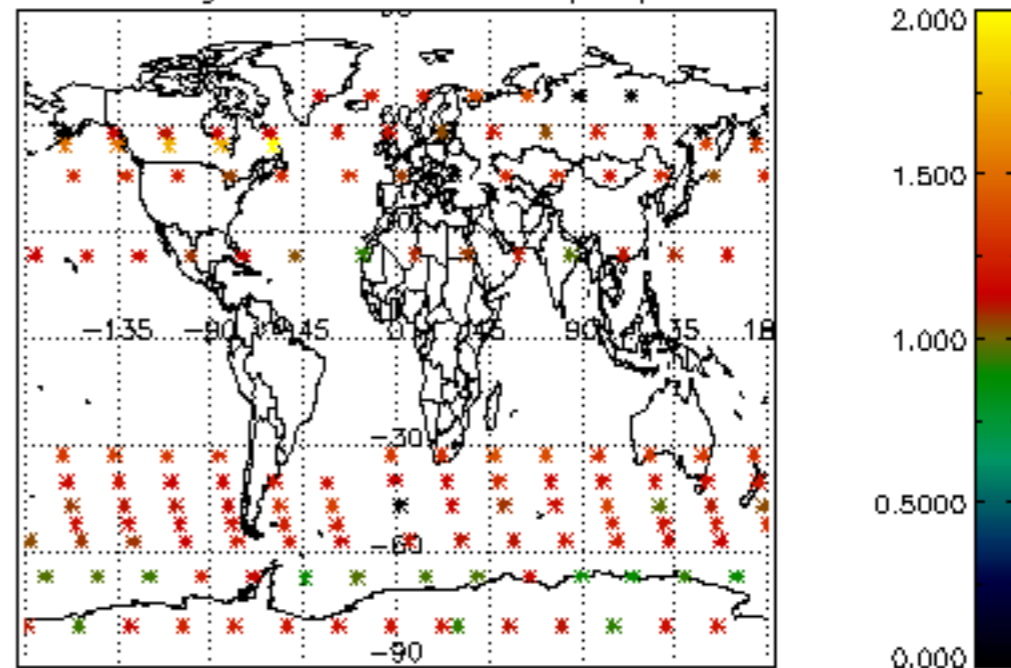




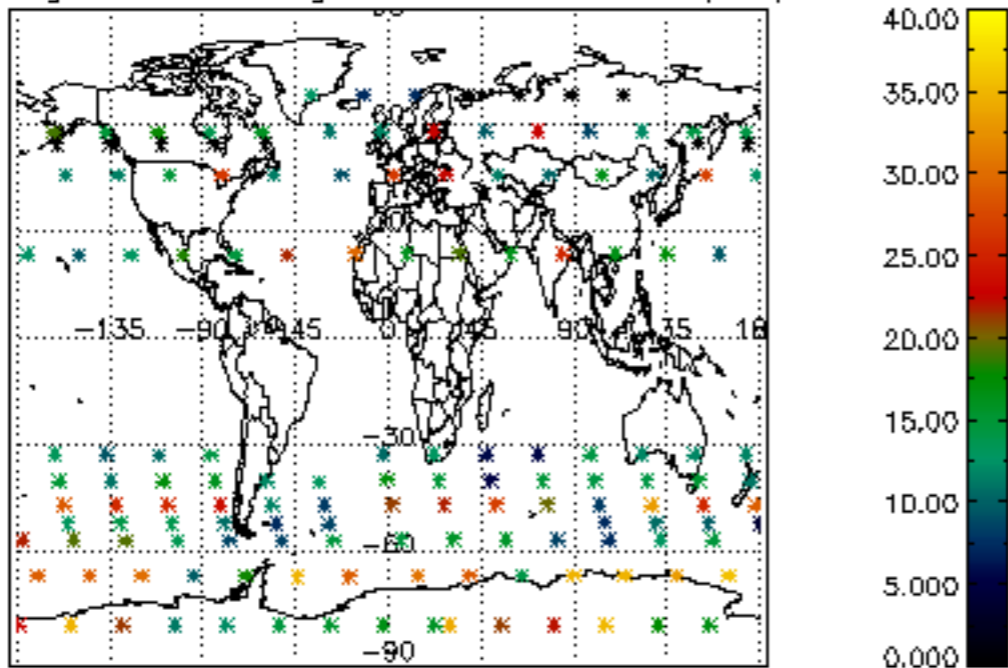
Percentage of cosmic ray hits per profile



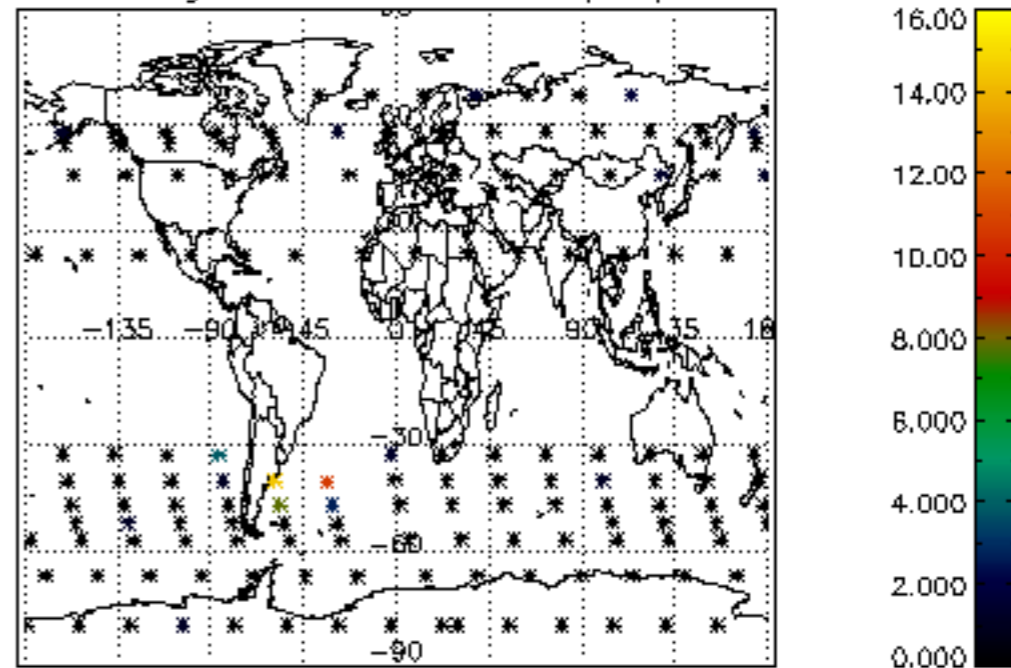
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

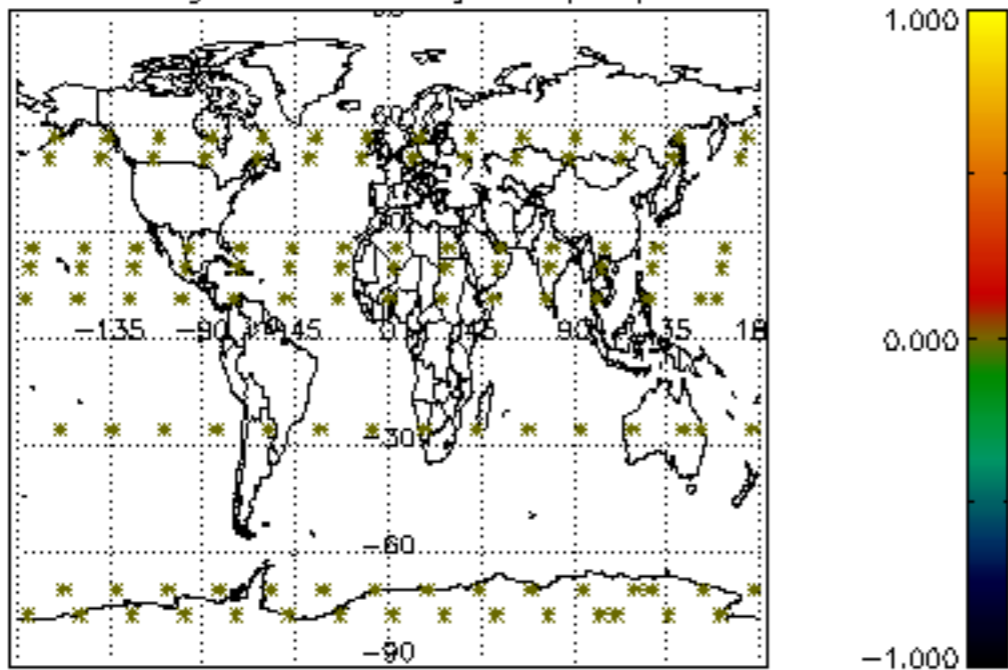


Percentage of saturation errors per profile

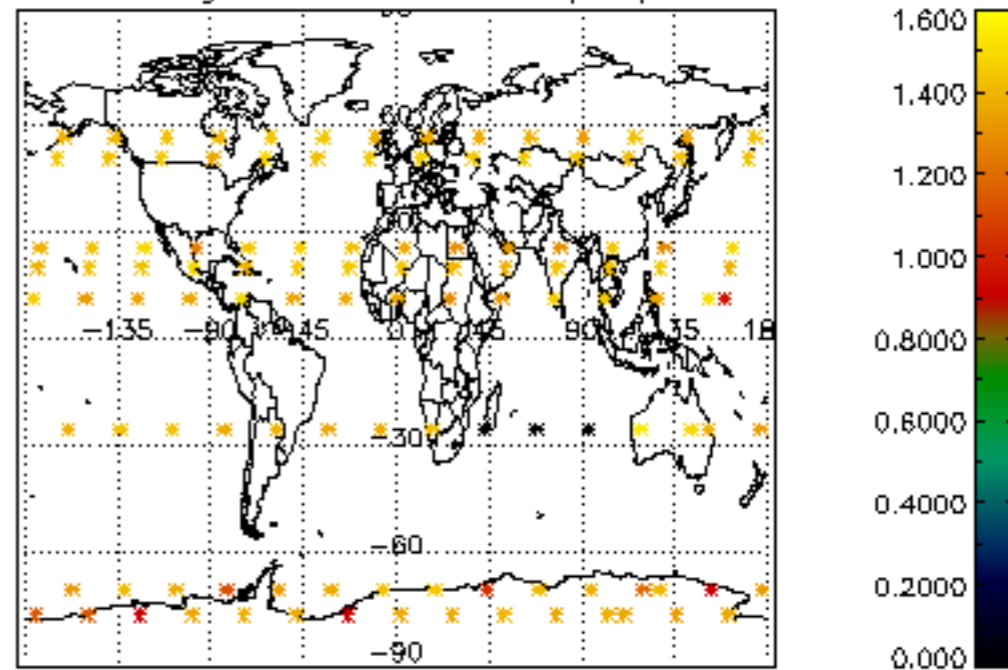




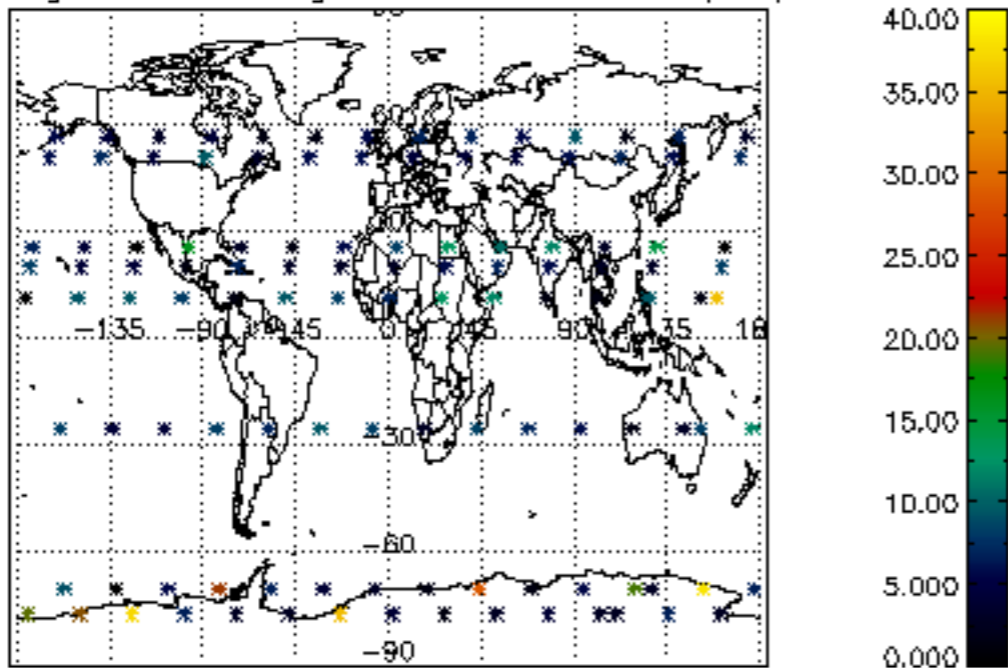
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

