

# 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	23APR2013 10:03:12
Data source version	GOMOS/6.01
Start time of products	03-11-2007 (03NOV2007 00:00:00)
Stop time of products	04-11-2007 (04NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	98
Nb of prods with errors	0

## 2. Summary of processed GOM\_NL\_\_2P products.

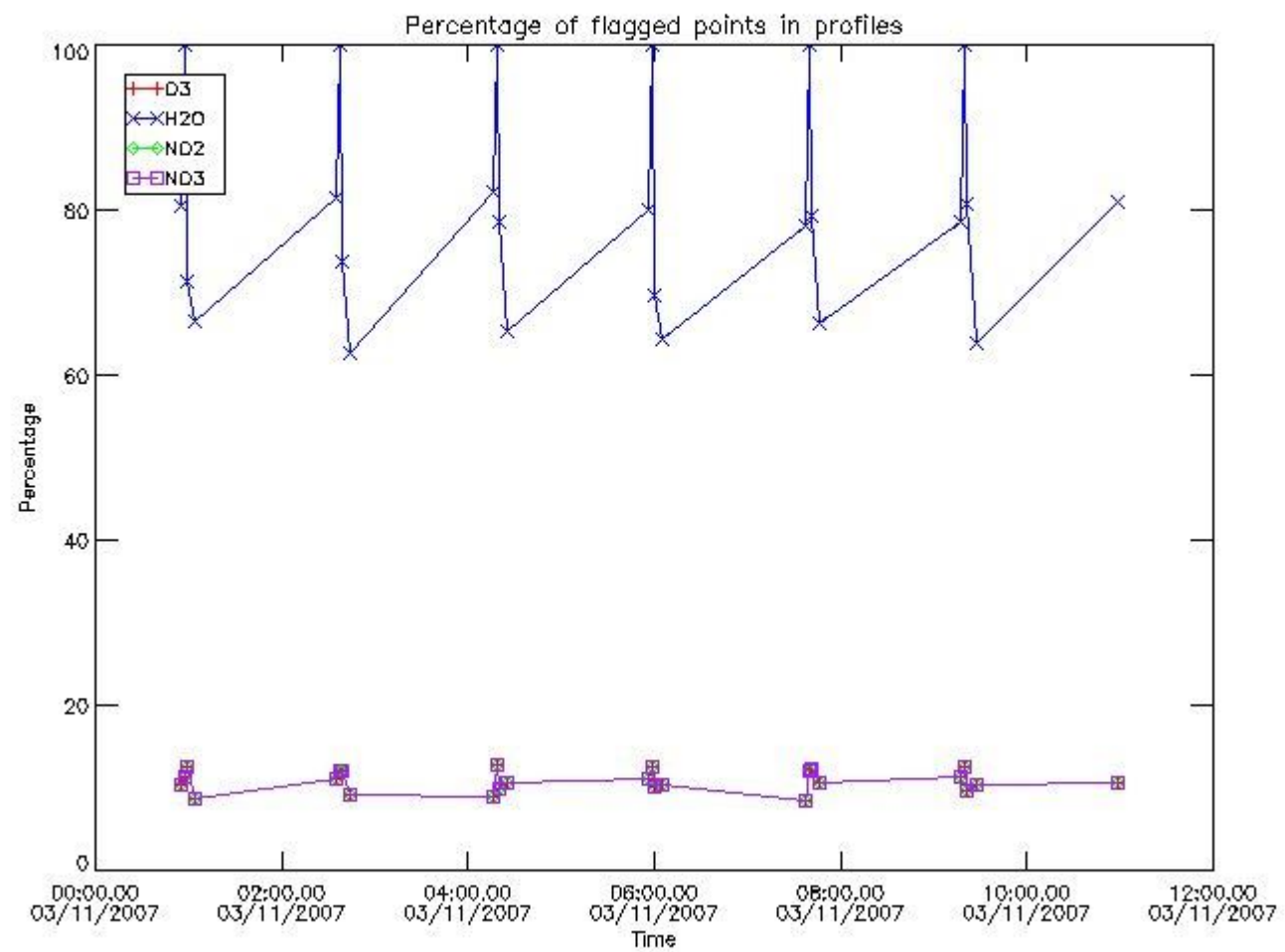
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20071103_000204_000000362063_00059_29672_8616.N1	03-NOV-2007 00:02:04	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	29672	No
2	GOM_NL__2PRFIN20071103_000314_000000352063_00059_29672_8617.N1	03-NOV-2007 00:03:14	Bright	35.000	76	27Gam Cas	2.3000	30000.	70	29672	No
3	GOM_NL__2PRFIN20071103_001119_000000362063_00059_29672_8618.N1	03-NOV-2007 00:11:19	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29672	No
4	GOM_NL__2PRFIN20071103_001926_000000402063_00059_29672_8619.N1	03-NOV-2007 00:19:26	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	29672	No
5	GOM_NL__2PRFIN20071103_002103_000000382063_00059_29672_8620.N1	03-NOV-2007 00:21:03	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	29672	No
6	GOM_NL__2PRFIN20071103_002446_000000552063_00059_29672_8621.N1	03-NOV-2007 00:24:46	Bright	54.500	174	52Psi UMa	3.0040	4400.0	109	29672	No
7	GOM_NL__2PRFIN20071103_003215_000000382063_00059_29672_8622.N1	03-NOV-2007 00:32:15	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	29672	No
8	GOM_NL__2PRFIN20071103_005451_000000492063_00060_29673_8622.N1	03-NOV-2007 00:54:51	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	29673	No
9	GOM_NL__2PRFIN20071103_005722_000000492063_00060_29673_8623.N1	03-NOV-2007 00:57:22	Dark	49.000	46	Del Vel	1.9540	10600.	98	29673	No
10	GOM_NL__2PRFIN20071103_005841_000000412063_00060_29673_8624.N1	03-NOV-2007 00:58:41	Dark	40.500	41	Eps Car	1.8600	4100.0	81	29673	No
11	GOM_NL__2PRFIN20071103_010353_000000592063_00060_29673_8625.N1	03-NOV-2007 01:03:53	Dark	58.500	2	Alp Car	-0.73600	7000.0	117	29673	No
12	GOM_NL__2PRFIN20071103_011400_000000402063_00060_29673_8626.N1	03-NOV-2007 01:14:00	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	29673	No
13	GOM_NL__2PRFIN20071103_013242_000000392063_00060_29673_8627.N1	03-NOV-2007 01:32:42	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	29673	No
14	GOM_NL__2PRFIN20071103_013646_000000392063_00060_29673_8628.N1	03-NOV-2007 01:36:46	Bright	38.500	53	43Bet And	2.0480	3300.0	77	29673	No
15	GOM_NL__2PRFIN20071103_013907_000000412063_00060_29673_8629.N1	03-NOV-2007 01:39:07	Bright	40.500	73	57Gam1And	2.2600	13100.	81	29673	No
16	GOM_NL__2PRFIN20071103_014240_000000352063_00060_29673_8630.N1	03-NOV-2007 01:42:40	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	29673	No
17	GOM_NL__2PRFIN20071103_014350_000000362063_00060_29673_8631.N1	03-NOV-2007 01:43:50	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29673	No
18	GOM_NL__2PRFIN20071103_015155_000000332063_00060_29673_8632.N1	03-NOV-2007 01:51:55	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	29673	No
19	GOM_NL__2PRFIN20071103_020002_000000412063_00060_29673_8633.N1	03-NOV-2007 02:00:02	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	29673	No
20	GOM_NL__2PRFIN20071103_020138_000000372063_00060_29673_8634.N1	03-NOV-2007 02:01:38	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	29673	No
21	GOM_NL__2PRFIN20071103_020522_000000382063_00060_29673_8635.N1	03-NOV-2007 02:05:22	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	29673	No
22	GOM_NL__2PRFIN20071103_021251_000000382063_00060_29673_8636.N1	03-NOV-2007 02:12:51	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	29673	No
23	GOM_NL__2PRFIN20071103_023528_000000462063_00061_29674_8629.N1	03-NOV-2007 02:35:28	Dark	46.000	65	Lam Vel	2.2040	4400.0	92	29674	No
24	GOM_NL__2PRFIN20071103_023759_000000422063_00061_29674_8630.N1	03-NOV-2007 02:37:59	Dark	42.000	46	Del Vel	1.9540	10600.	84	29674	No
25	GOM_NL__2PRFIN20071103_023918_000000432063_00061_29674_8631.N1	03-NOV-2007 02:39:18	Dark	42.500	41	Eps Car	1.8600	4100.0	85	29674	No
26	GOM_NL__2PRFIN20071103_024430_000000562063_00061_29674_8632.N1	03-NOV-2007 02:44:30	Dark	55.500	2	Alp Car	-0.73600	7000.0	111	29674	No
27	GOM_NL__2PRFIN20071103_025436_000000382063_00061_29674_8633.N1	03-NOV-2007 02:54:36	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	29674	No
28	GOM_NL__2PRFIN20071103_031318_000000392063_00061_29674_8634.N1	03-NOV-2007 03:13:18	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	29674	No
29	GOM_NL__2PRFIN20071103_031722_000000382063_00061_29674_8635.N1	03-NOV-2007 03:17:22	Bright	37.500	53	43Bet And	2.0480	3300.0	75	29674	No
30	GOM_NL__2PRFIN20071103_031942_000000402063_00061_29674_8636.N1	03-NOV-2007 03:19:42	Bright	40.000	73	57Gam1And	2.2600	13100.	80	29674	No
31	GOM_NL__2PRFIN20071103_032316_000000372063_00061_29674_8637.N1	03-NOV-2007 03:23:16	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29674	No
32	GOM_NL__2PRFIN20071103_032426_000000362063_00061_29674_8638.N1	03-NOV-2007 03:24:26	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29674	No
33	GOM_NL__2PRFIN20071103_033231_000000352063_00061_29674_8639.N1	03-NOV-2007 03:32:31	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	29674	No
34	GOM_NL__2PRFIN20071103_034037_000000402063_00061_29674_8640.N1	03-NOV-2007 03:40:37	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	29674	No
35	GOM_NL__2PRFIN20071103_034214_000000562063_00061_29674_8641.N1	03-NOV-2007 03:42:14	Bright	56.000	82	48Bet UMa	2.3650	10600.	112	29674	No
36	GOM_NL__2PRFIN20071103_034557_000000382063_00061_29674_8642.N1	03-NOV-2007 03:45:57	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	29674	No
37	GOM_NL__2PRFIN20071103_035327_000000452063_00061_29674_8643.N1	03-NOV-2007 03:53:27	Bright	45.000	96	68Del Leo	2.5600	9300.0	90	29674	No
38	GOM_NL__2PRFIN20071103_041605_000000572063_00062_29675_8643.N1	03-NOV-2007 04:16:05	Dark	56.500	65	Lam Vel	2.2040	4400.0	113	29675	No
39	GOM_NL__2PRFIN20071103_041836_000000402063_00062_29675_8644.N1	03-NOV-2007 04:18:36	Dark	40.000	46	Del Vel	1.9540	10600.	80	29675	No
40	GOM_NL__2PRFIN20071103_041954_000000522063_00062_29675_8645.N1	03-NOV-2007 04:19:54	Dark	52.000	41	Eps Car	1.8600	4100.0	104	29675	No
41	GOM_NL__2PRFIN20071103_042507_000000482063_00062_29675_8646.N1	03-NOV-2007 04:25:07	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	29675	No
42	GOM_NL__2PRFIN20071103_043513_000000402063_00062_29675_8647.N1	03-NOV-2007 04:35:13	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	29675	No

43	GOM_NL__2PRFIN20071103_045354_000000382063_00062_29675_8648.N1	03-NOV-2007 04:53:54	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	29675	No
44	GOM_NL__2PRFIN20071103_045758_000000382063_00062_29675_8649.N1	03-NOV-2007 04:57:58	Bright	38.000	53	43Bet And	2.0480	3300.0	76	29675	No
45	GOM_NL__2PRFIN20071103_050018_000000382063_00062_29675_8650.N1	03-NOV-2007 05:00:18	Bright	38.000	73	57Gam1And	2.2600	13100.	76	29675	No
46	GOM_NL__2PRFIN20071103_050352_000000362063_00062_29675_8651.N1	03-NOV-2007 05:03:52	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	29675	No
47	GOM_NL__2PRFIN20071103_050502_000000362063_00062_29675_8652.N1	03-NOV-2007 05:05:02	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29675	No
48	GOM_NL__2PRFIN20071103_051307_000000372063_00062_29675_8653.N1	03-NOV-2007 05:13:07	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	29675	No
49	GOM_NL__2PRFIN20071103_052113_000000402063_00062_29675_8654.N1	03-NOV-2007 05:21:13	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	29675	No
50	GOM_NL__2PRFIN20071103_052250_000000372063_00062_29675_8655.N1	03-NOV-2007 05:22:50	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	29675	No
51	GOM_NL__2PRFIN20071103_052633_000000472063_00062_29675_8656.N1	03-NOV-2007 05:26:33	Bright	47.000	174	52Psi UMa	3.0040	4400.0	94	29675	No
52	GOM_NL__2PRFIN20071103_053403_000000422063_00062_29675_8657.N1	03-NOV-2007 05:34:03	Bright	42.000	96	68Del Leo	2.5600	9300.0	84	29675	No
53	GOM_NL__2PRFIN20071103_055642_000000462063_00063_29676_8658.N1	03-NOV-2007 05:56:42	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	29676	No
54	GOM_NL__2PRFIN20071103_055912_000000412063_00063_29676_8659.N1	03-NOV-2007 05:59:12	Dark	40.500	46	Del Vel	1.9540	10600.	81	29676	No
55	GOM_NL__2PRFIN20071103_060031_000000552063_00063_29676_8660.N1	03-NOV-2007 06:00:31	Dark	55.000	41	Eps Car	1.8600	4100.0	110	29676	No
56	GOM_NL__2PRFIN20071103_060543_000000502063_00063_29676_8661.N1	03-NOV-2007 06:05:43	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	29676	No
57	GOM_NL__2PRFIN20071103_061549_000000412063_00063_29676_8662.N1	03-NOV-2007 06:15:49	Straylight	41.000	157	The1Eri	2.9060	9300.0	82	29676	No
58	GOM_NL__2PRFIN20071103_063429_000000392063_00063_29676_8663.N1	03-NOV-2007 06:34:29	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	29676	No
59	GOM_NL__2PRFIN20071103_063834_000000362063_00063_29676_8664.N1	03-NOV-2007 06:38:34	Bright	36.000	53	43Bet And	2.0480	3300.0	72	29676	No
60	GOM_NL__2PRFIN20071103_064054_000000382063_00063_29676_8665.N1	03-NOV-2007 06:40:54	Bright	37.500	73	57Gam1And	2.2600	13100.	75	29676	No
61	GOM_NL__2PRFIN20071103_064428_000000372063_00063_29676_8666.N1	03-NOV-2007 06:44:28	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29676	No
62	GOM_NL__2PRFIN20071103_064538_000000362063_00063_29676_8667.N1	03-NOV-2007 06:45:38	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	29676	No
63	GOM_NL__2PRFIN20071103_065343_000000362063_00063_29676_8668.N1	03-NOV-2007 06:53:43	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29676	No
64	GOM_NL__2PRFIN20071103_070149_000000412063_00063_29676_8669.N1	03-NOV-2007 07:01:49	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	29676	No
65	GOM_NL__2PRFIN20071103_070326_000000392063_00063_29676_8670.N1	03-NOV-2007 07:03:26	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	29676	No
66	GOM_NL__2PRFIN20071103_070709_000000392063_00063_29676_8671.N1	03-NOV-2007 07:07:09	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	29676	No
67	GOM_NL__2PRFIN20071103_071439_000000392063_00063_29676_8672.N1	03-NOV-2007 07:14:39	Bright	38.500	96	68Del Leo	2.5600	9300.0	77	29676	No
68	GOM_NL__2PRFIN20071103_073719_000000602063_00064_29677_8678.N1	03-NOV-2007 07:37:19	Dark	60.000	65	Lam Vel	2.2040	4400.0	120	29677	No
69	GOM_NL__2PRFIN20071103_073949_000000432063_00064_29677_8679.N1	03-NOV-2007 07:39:49	Dark	42.500	46	Del Vel	1.9540	10600.	85	29677	No
70	GOM_NL__2PRFIN20071103_074108_000000422063_00064_29677_8680.N1	03-NOV-2007 07:41:08	Dark	41.500	41	Eps Car	1.8600	4100.0	83	29677	No
71	GOM_NL__2PRFIN20071103_074620_000000482063_00064_29677_8681.N1	03-NOV-2007 07:46:20	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	29677	No
72	GOM_NL__2PRFIN20071103_075626_000000392063_00064_29677_8682.N1	03-NOV-2007 07:56:26	Straylight	38.500	157	The1Eri	2.9060	9300.0	77	29677	No
73	GOM_NL__2PRFIN20071103_081505_000000382063_00064_29677_8683.N1	03-NOV-2007 08:15:05	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	29677	No
74	GOM_NL__2PRFIN20071103_081909_000000362063_00064_29677_8684.N1	03-NOV-2007 08:19:09	Bright	35.500	53	43Bet And	2.0480	3300.0	71	29677	No
75	GOM_NL__2PRFIN20071103_082130_000000372063_00064_29677_8685.N1	03-NOV-2007 08:21:30	Bright	37.000	73	57Gam1And	2.2600	13100.	74	29677	No
76	GOM_NL__2PRFIN20071103_082504_000000372063_00064_29677_8686.N1	03-NOV-2007 08:25:04	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	29677	No
77	GOM_NL__2PRFIN20071103_082614_000000352063_00064_29677_8687.N1	03-NOV-2007 08:26:14	Bright	35.000	76	27Gam Cas	2.3000	30000.	70	29677	No
78	GOM_NL__2PRFIN20071103_083419_000000342063_00064_29677_8688.N1	03-NOV-2007 08:34:19	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	29677	No
79	GOM_NL__2PRFIN20071103_084225_000000392063_00064_29677_8689.N1	03-NOV-2007 08:42:25	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	29677	No
80	GOM_NL__2PRFIN20071103_084402_000000362063_00064_29677_8690.N1	03-NOV-2007 08:44:02	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	29677	No
81	GOM_NL__2PRFIN20071103_084745_000000392063_00064_29677_8691.N1	03-NOV-2007 08:47:45	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	29677	No
82	GOM_NL__2PRFIN20071103_085516_000000462063_00064_29677_8692.N1	03-NOV-2007 08:55:16	Bright	45.500	96	68Del Leo	2.5600	9300.0	91	29677	No
83	GOM_NL__2PRFIN20071103_091756_000000452063_00065_29678_8692.N1	03-NOV-2007 09:17:56	Dark	45.000	65	Lam Vel	2.2040	4400.0	90	29678	No
84	GOM_NL__2PRFIN20071103_092026_000000412063_00065_29678_8693.N1	03-NOV-2007 09:20:26	Dark	40.500	46	Del Vel	1.9540	10600.	81	29678	No
85	GOM_NL__2PRFIN20071103_092144_000000532063_00065_29678_8694.N1	03-NOV-2007 09:21:44	Dark	52.500	41	Eps Car	1.8600	4100.0	105	29678	No
86	GOM_NL__2PRFIN20071103_092657_000000492063_00065_29678_8695.N1	03-NOV-2007 09:26:57	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	29678	No
87	GOM_NL__2PRFIN20071103_093702_000000392063_00065_29678_8696.N1	03-NOV-2007 09:37:02	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	29678	No
88	GOM_NL__2PRFIN20071103_095541_000000382063_00065_29678_8697.N1	03-NOV-2007 09:55:41	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	29678	No
89	GOM_NL__2PRFIN20071103_095945_000000362063_00065_29678_8698.N1	03-NOV-2007 09:59:45	Bright	36.000	53	43Bet And	2.0480	3300.0	72	29678	No
90	GOM_NL__2PRFIN20071103_100205_000000392063_00065_29678_8699.N1	03-NOV-2007 10:02:05	Bright	39.000	73	57Gam1And	2.2600	13100.	78	29678	No
91	GOM_NL__2PRFIN20071103_100540_000000382063_00065_29678_8700.N1	03-NOV-2007 10:05:40	Bright	37.500	68	18Alp Cas	2.2250	4500.0	75	29678	No
92	GOM_NL__2PRFIN20071103_100650_000000362063_00065_29678_8701.N1	03-NOV-2007 10:06:50	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29678	No
93	GOM_NL__2PRFIN20071103_101455_000000362063_00065_29678_8702.N1	03-NOV-2007 10:14:55	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29678	No
94	GOM_NL__2PRFIN20071103_102301_000000402063_00065_29678_8703.N1	03-NOV-2007 10:23:01	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	29678	No
95	GOM_NL__2PRFIN20071103_102438_000000392063_00065_29678_8704.N1	03-NOV-2007 10:24:38	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	29678	No
96	GOM_NL__2PRFIN20071103_102821_000000402063_00065_29678_8705.N1	03-NOV-2007 10:28:21	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	29678	No
97	GOM_NL__2PRFIN20071103_103552_000000382063_00065_29678_8706.N1	03-NOV-2007 10:35:52	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	29678	No
98	GOM_NL__2PRFIN20071103_105832_000000482063_00066_29679_8722.N1	03-NOV-2007 10:58:32	Dark	47.500	65	Lam Vel	2.2040	4400.0	95	29679	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.

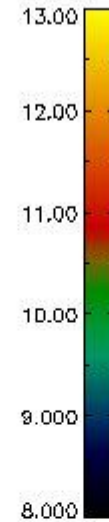
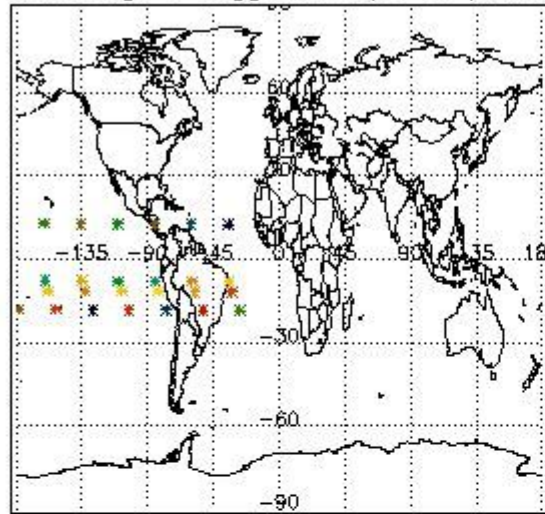
#### 3.1 Plot quality information per product (time dependant)



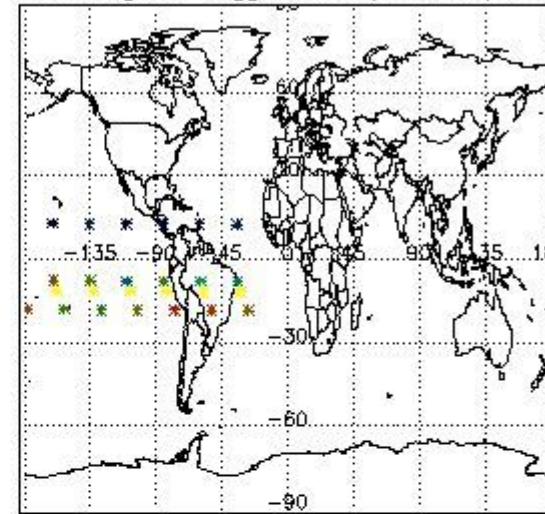
#### 3.2 Plot quality information per product (world map)



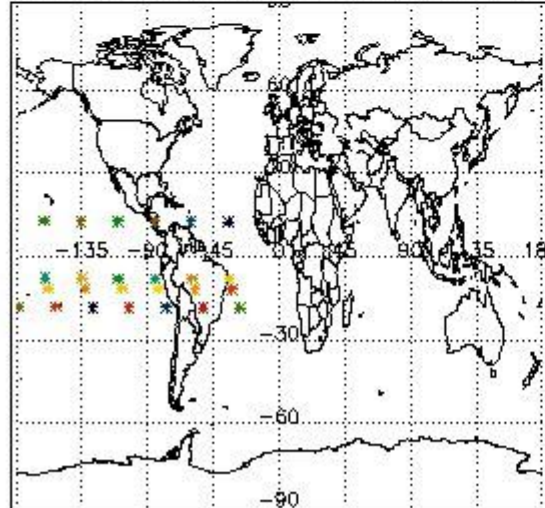
Percentage of flagged data per O3 profile



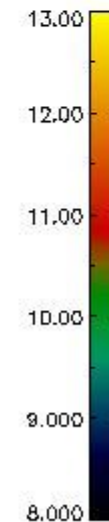
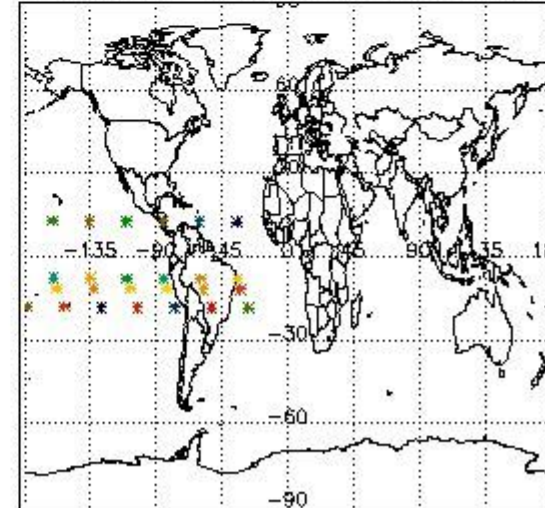
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

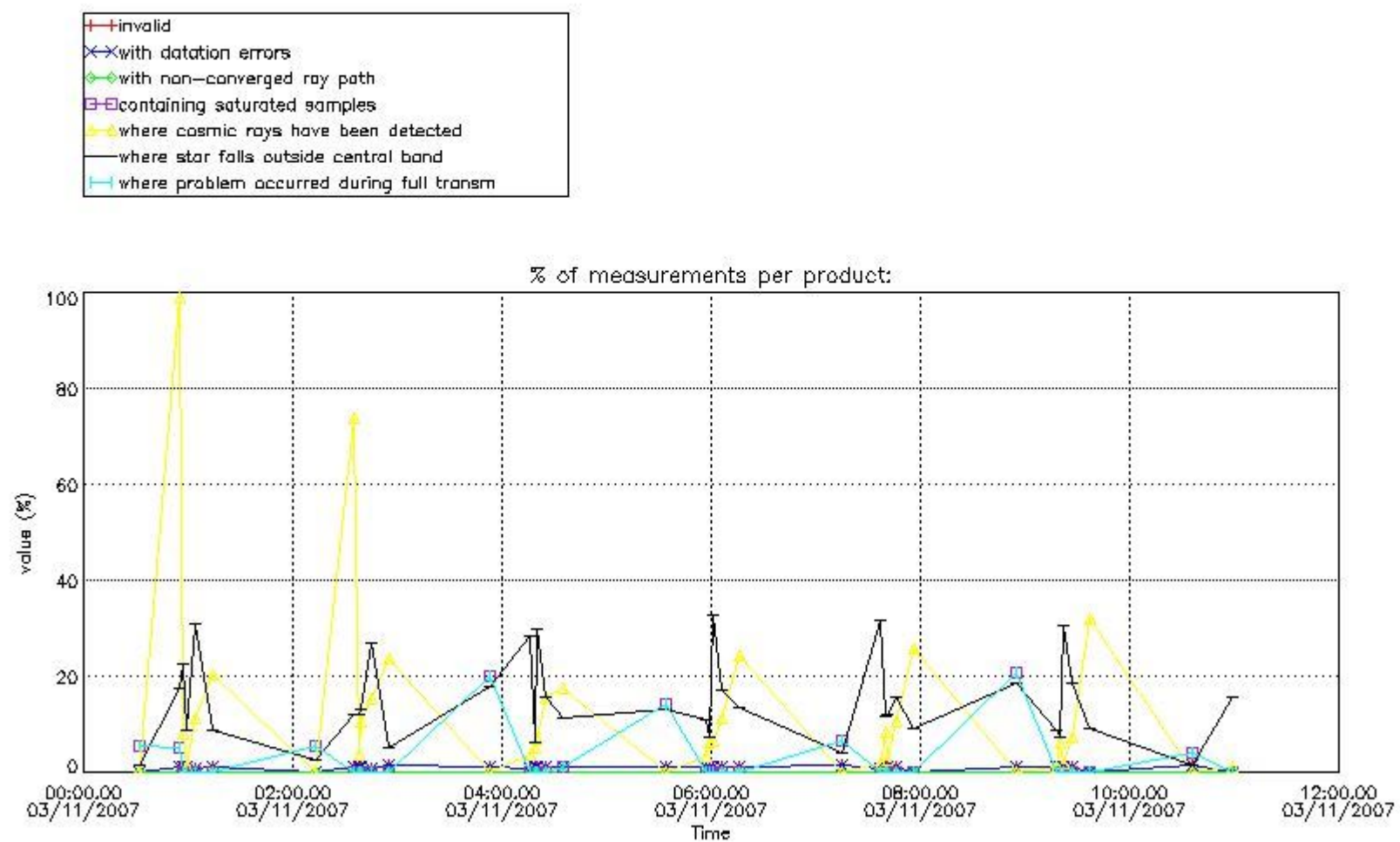


#### 4. Level 1 quality information per product

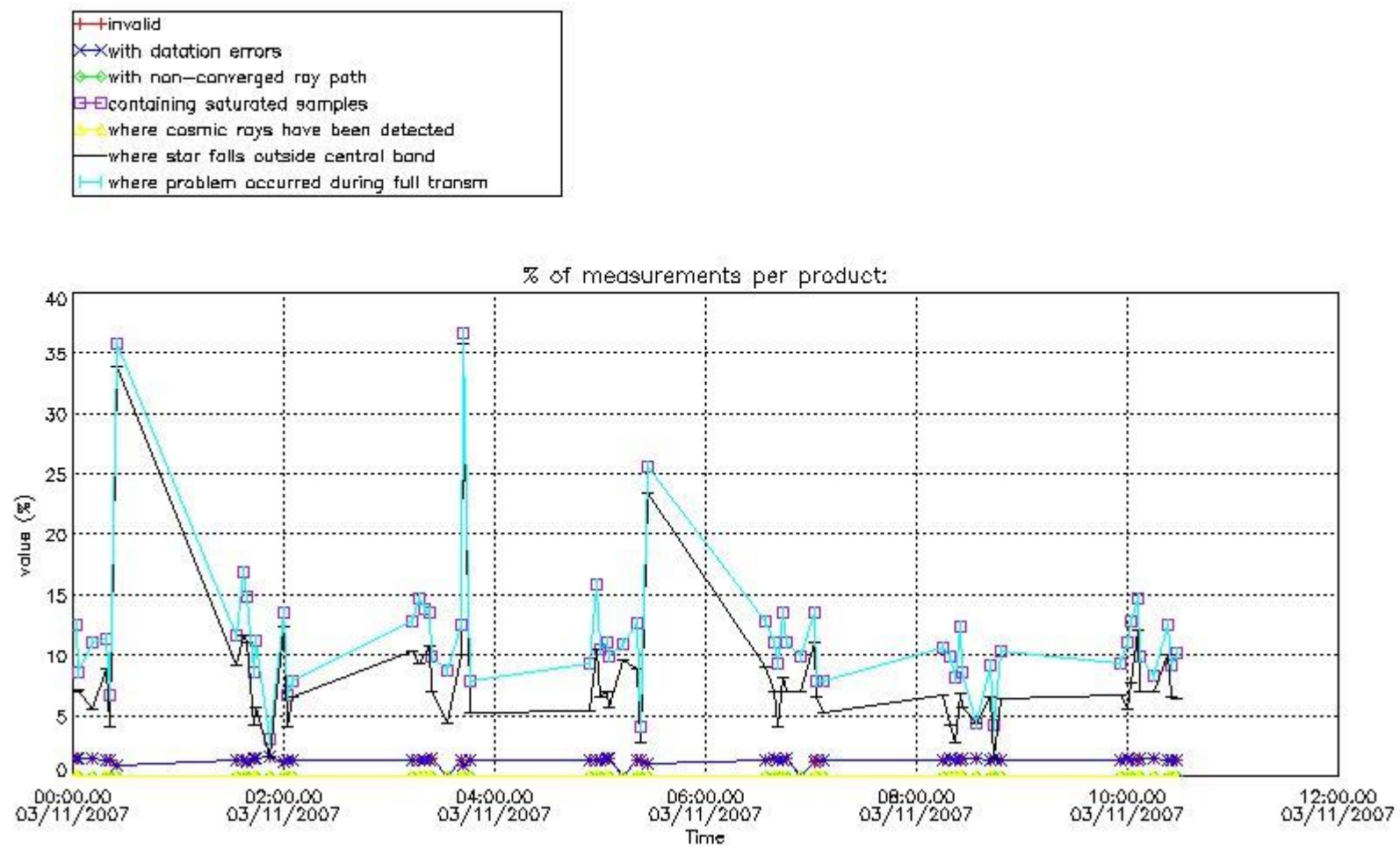
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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): ENVISAT DESCENDING passes

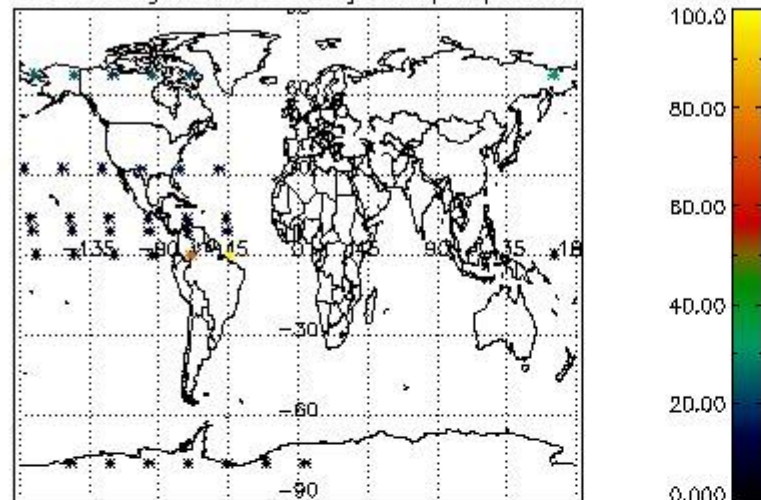


4.2 Plot quality information per product coming from level 1b processing (world map)

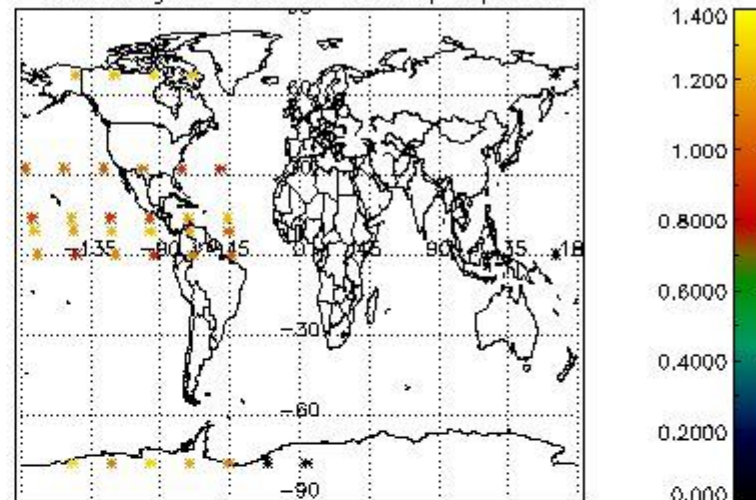
4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



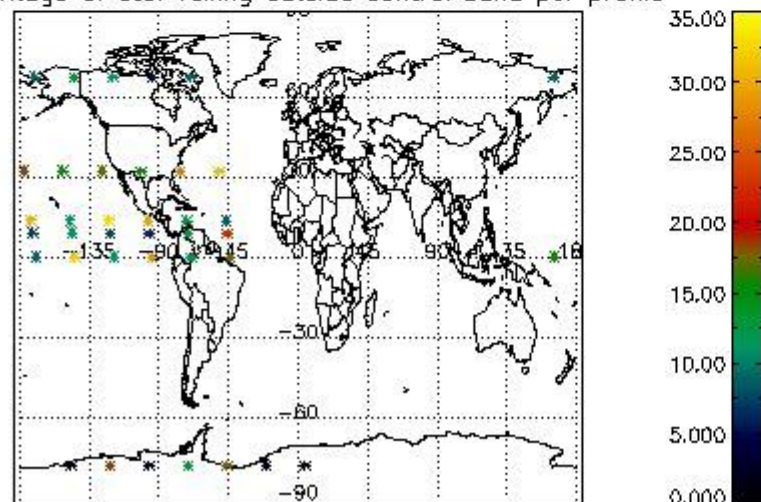
Percentage of cosmic ray hits per profile



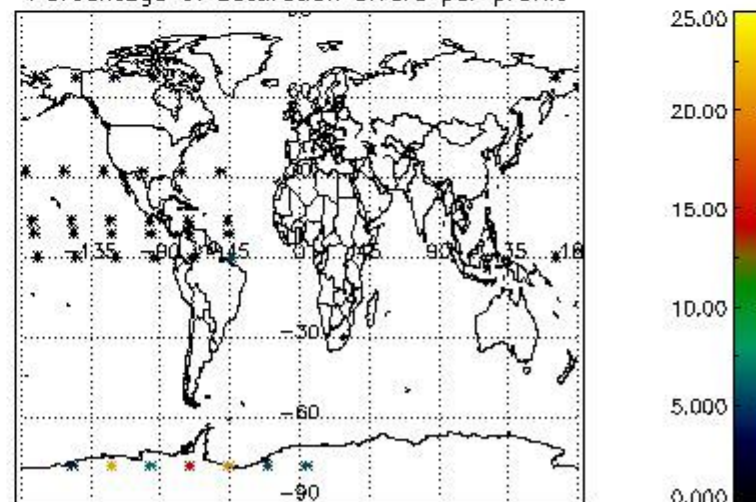
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

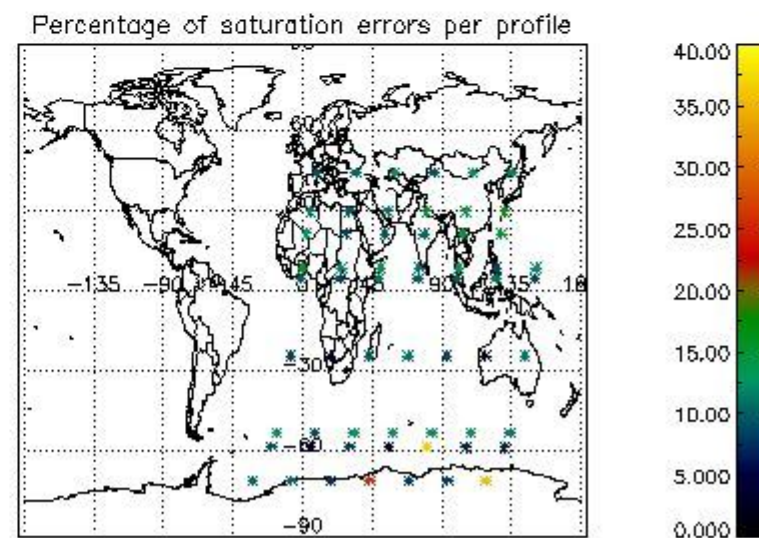
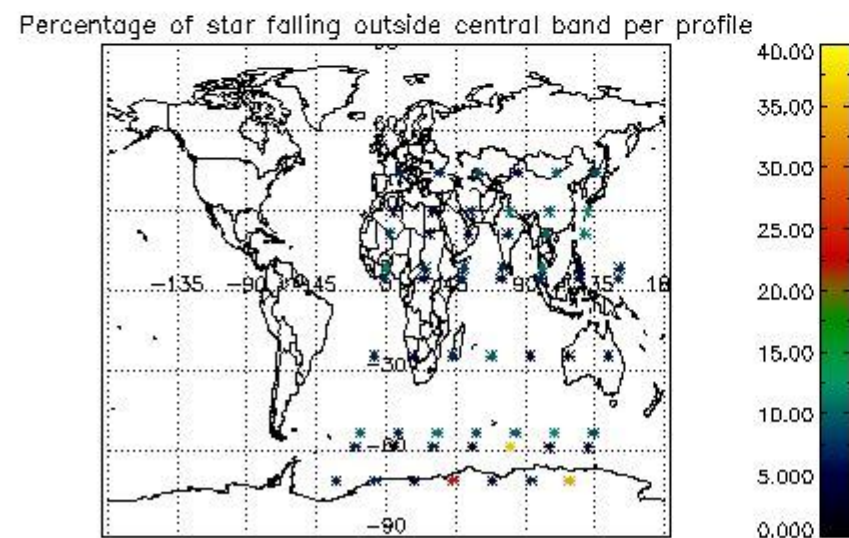
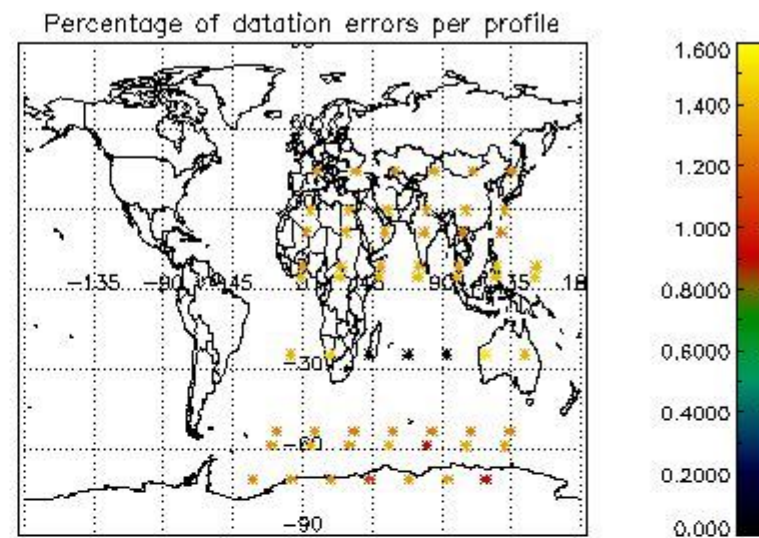
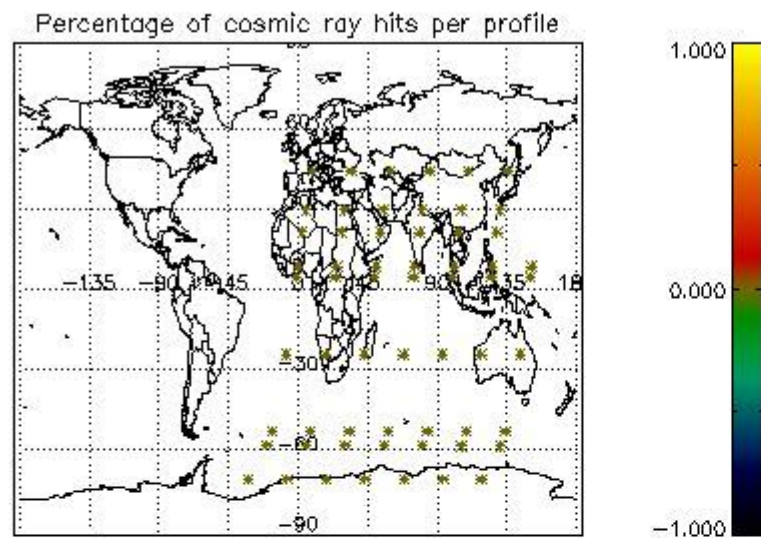


Percentage of saturation errors per profile



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

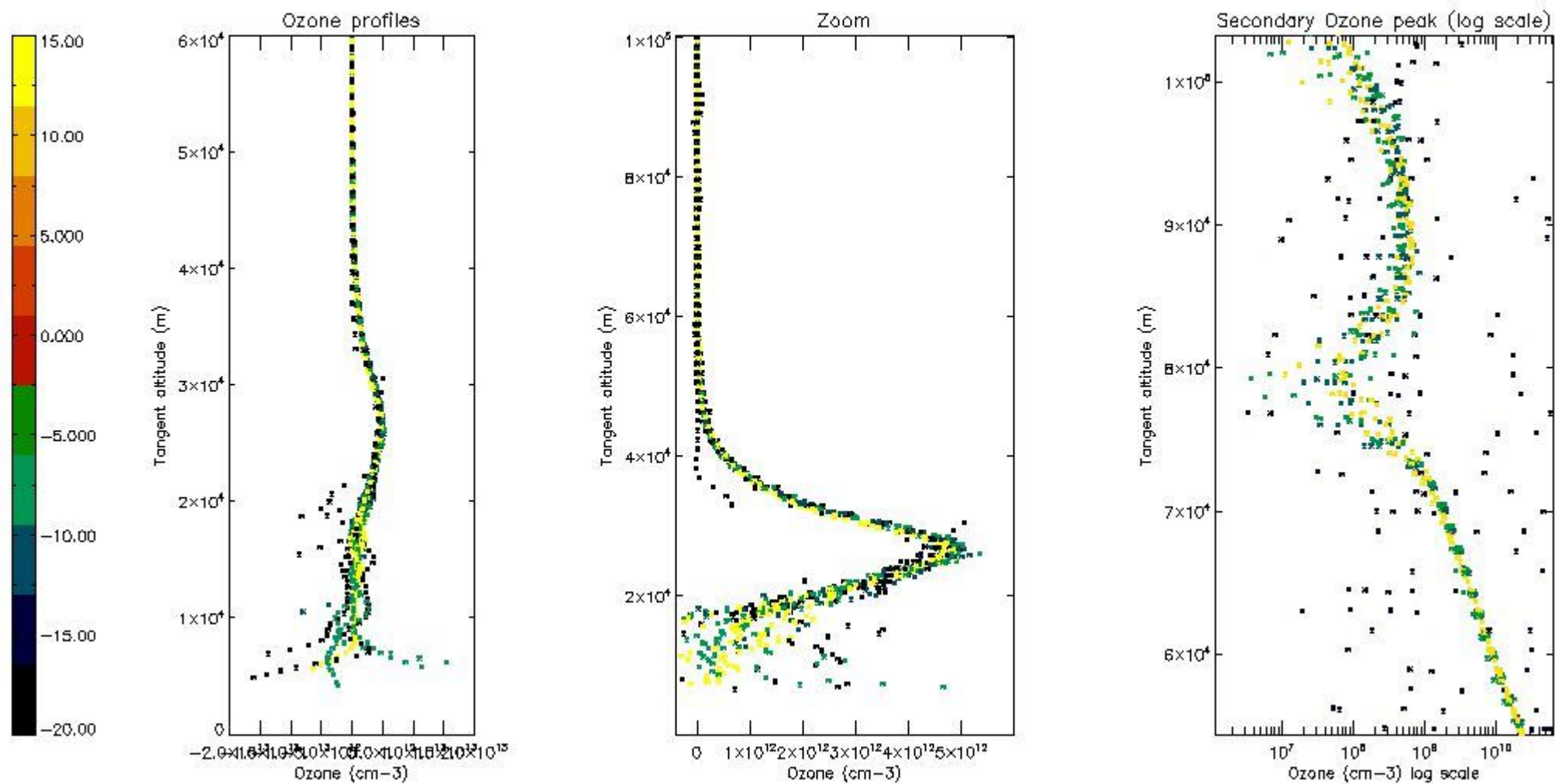
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	16

STD < 10	13
STD < 5	7

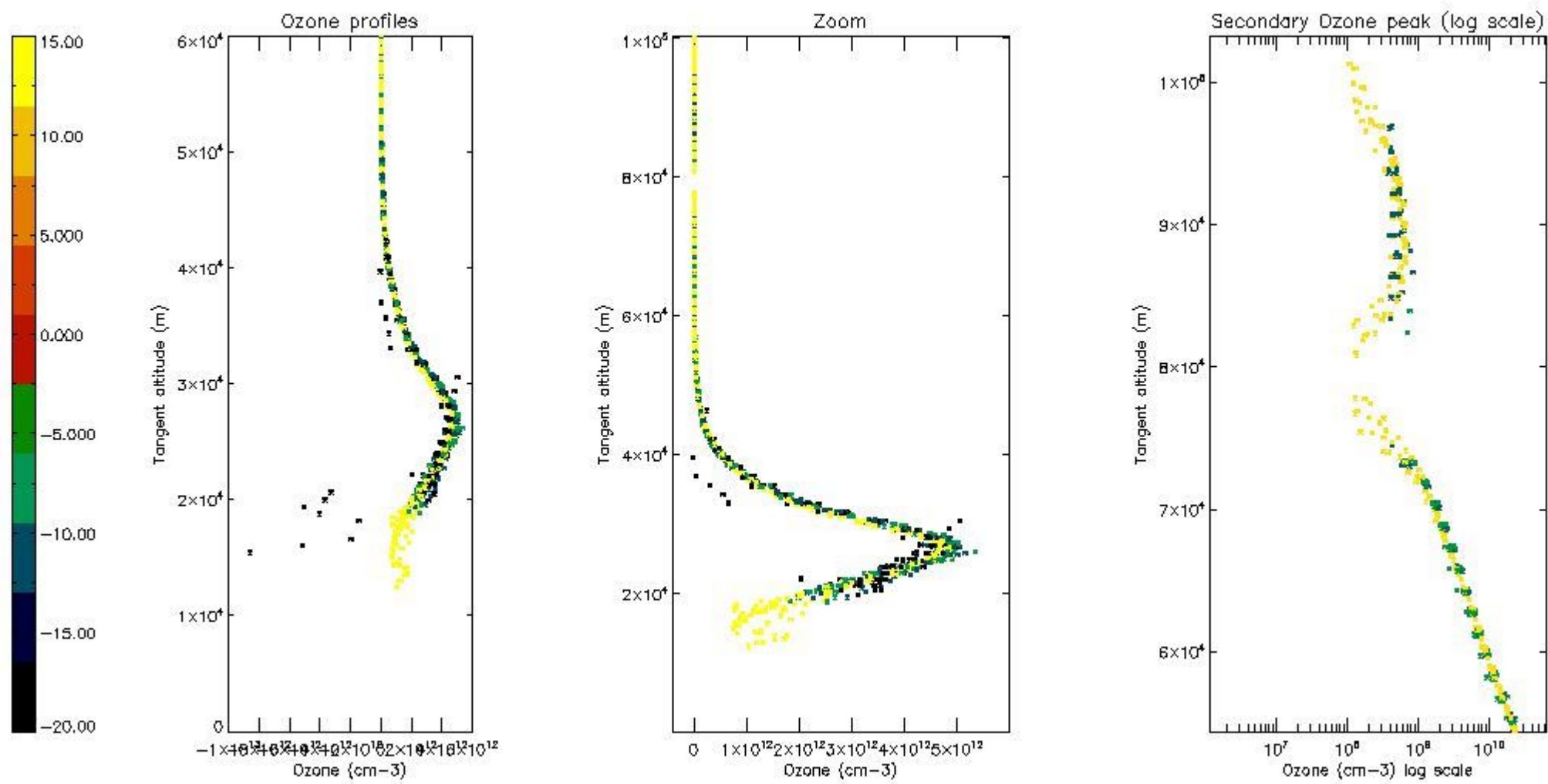
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



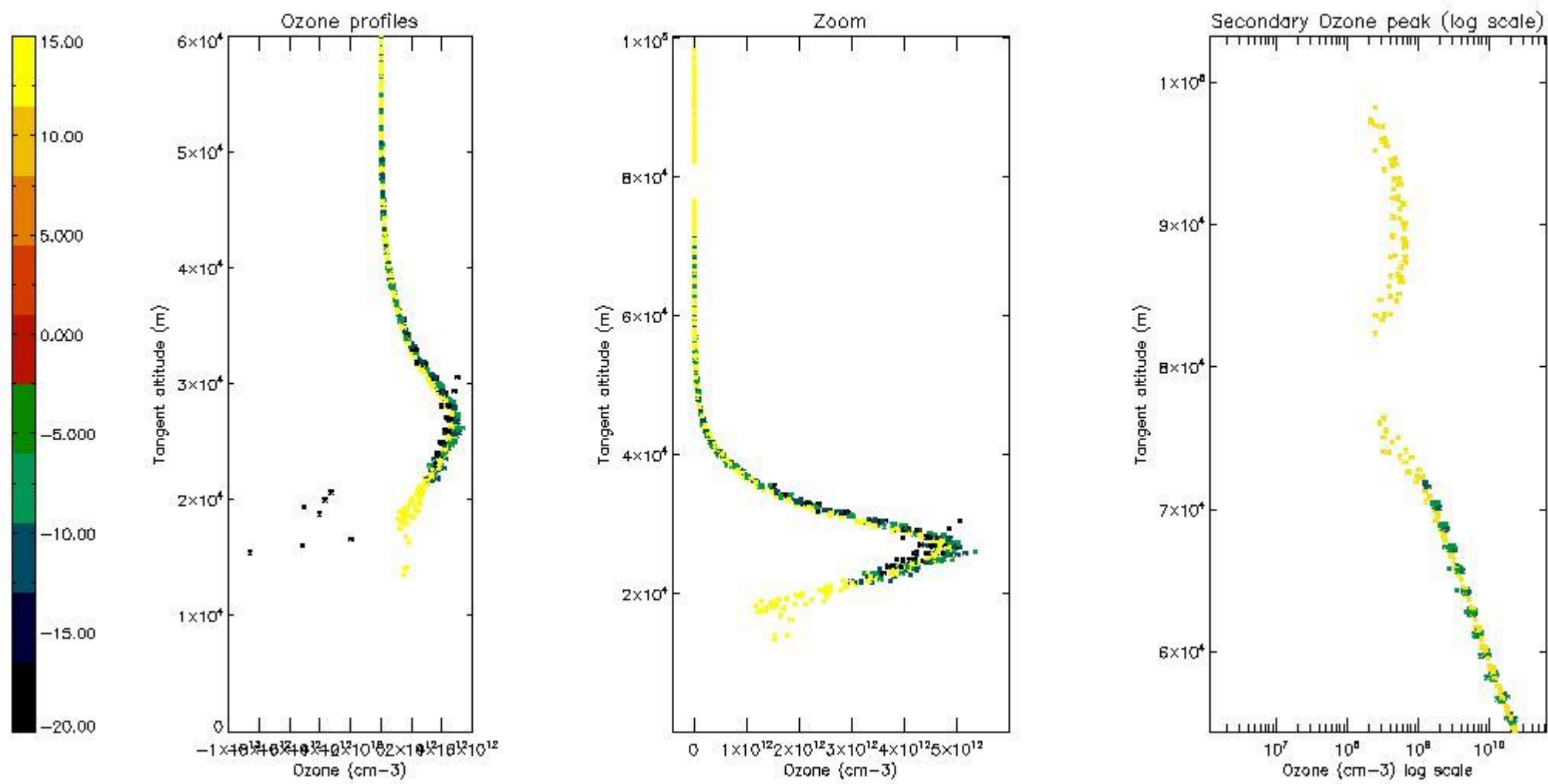
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

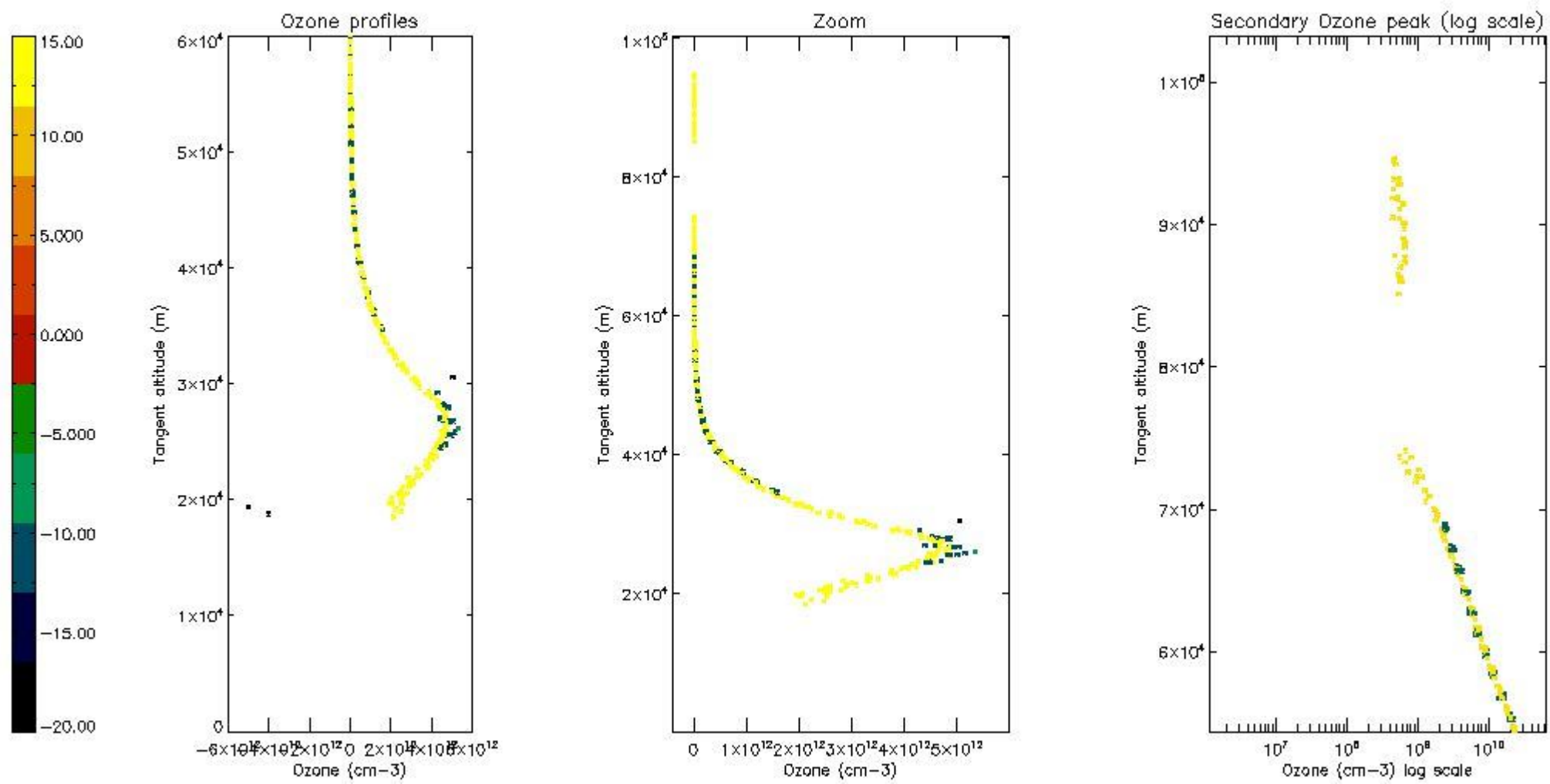
The colorbar represents the latitude.



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

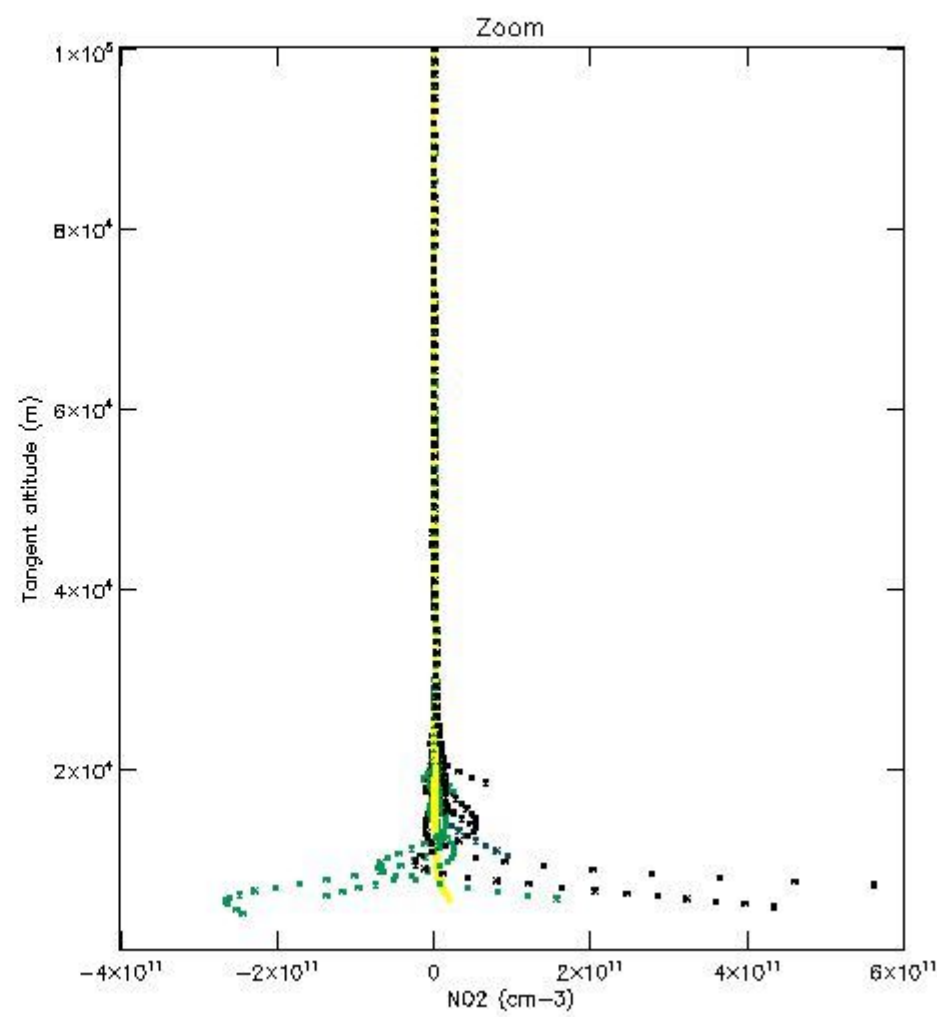
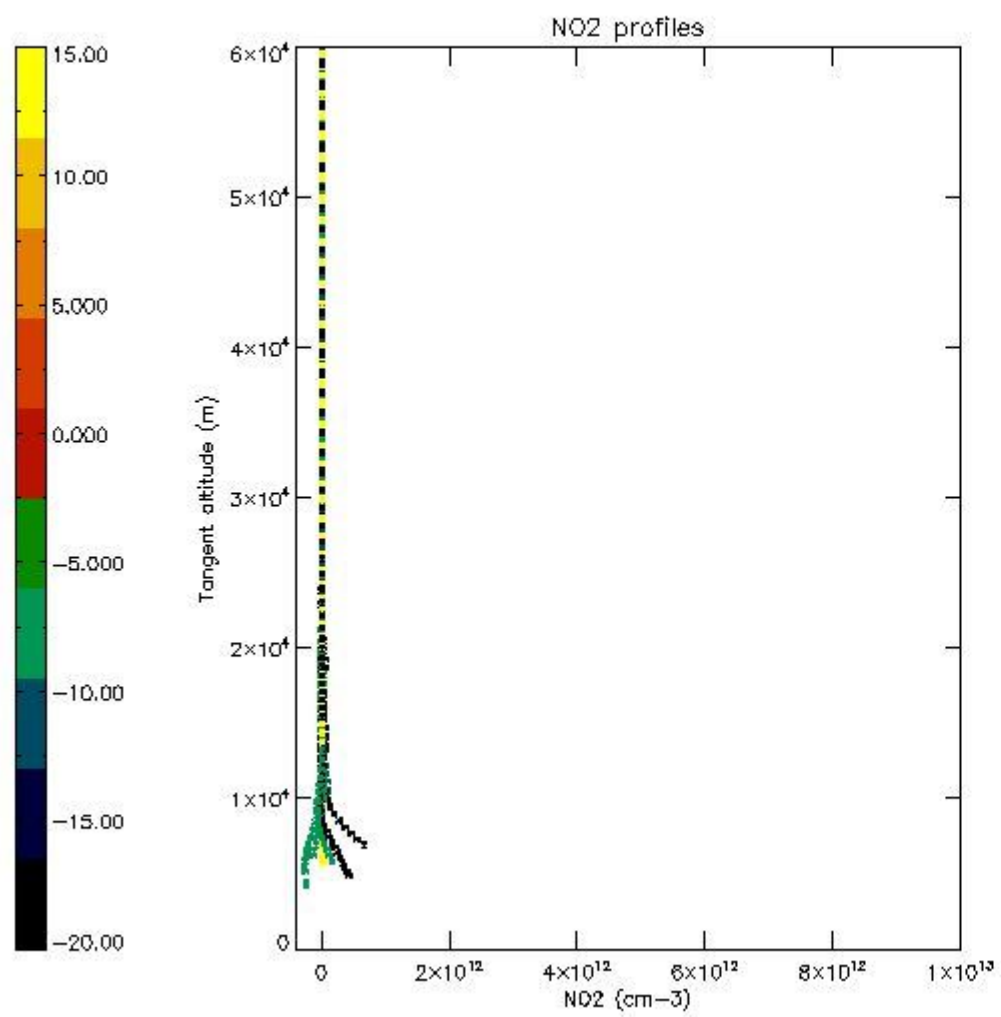
The colorbar represents the latitude.





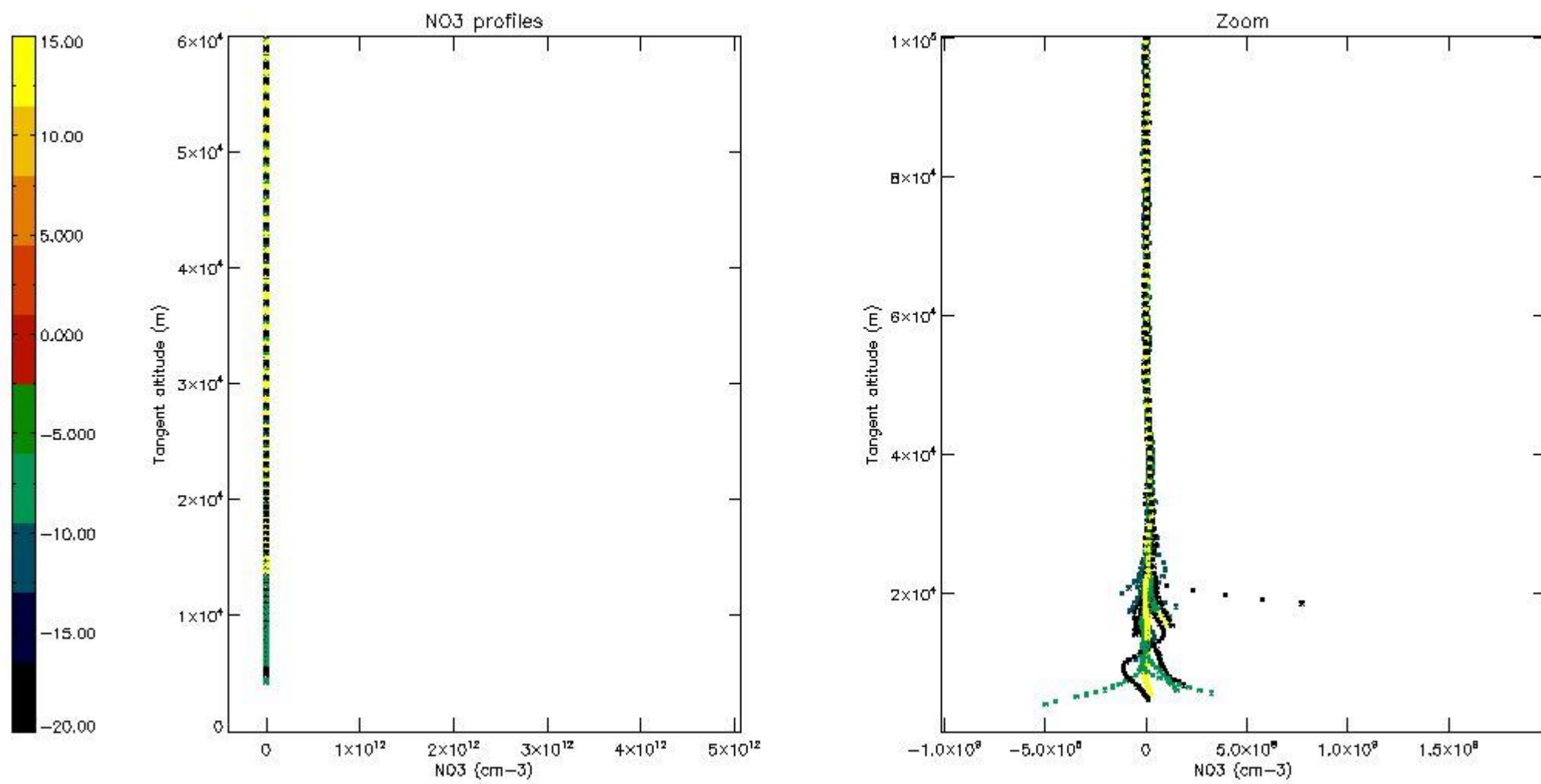
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



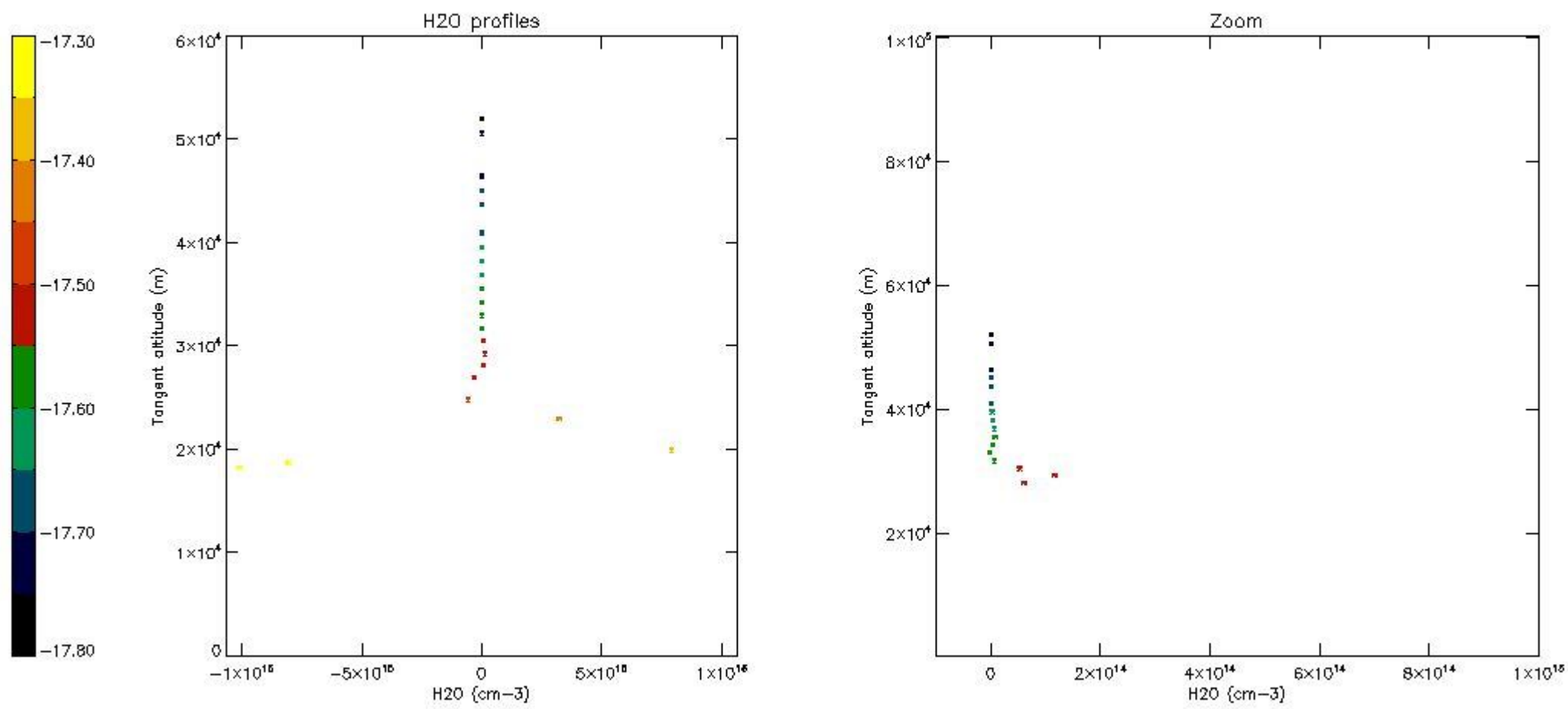
*5.7 Plot NO<sub>3</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot H<sub>2</sub>O 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	03-NOV-2007 00:02:04
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-NOV-2007 00:02:04
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-NOV-2007 00:02:04



# 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	23APR2013 10:03:12
Data source version	GOMOS/6.01
Start time of products	03-11-2007 (03NOV2007 00:00:00)
Stop time of products	04-11-2007 (04NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	98
Nb of prods with errors	0

## 2. Summary of processed GOM\_NL\_\_2P products.

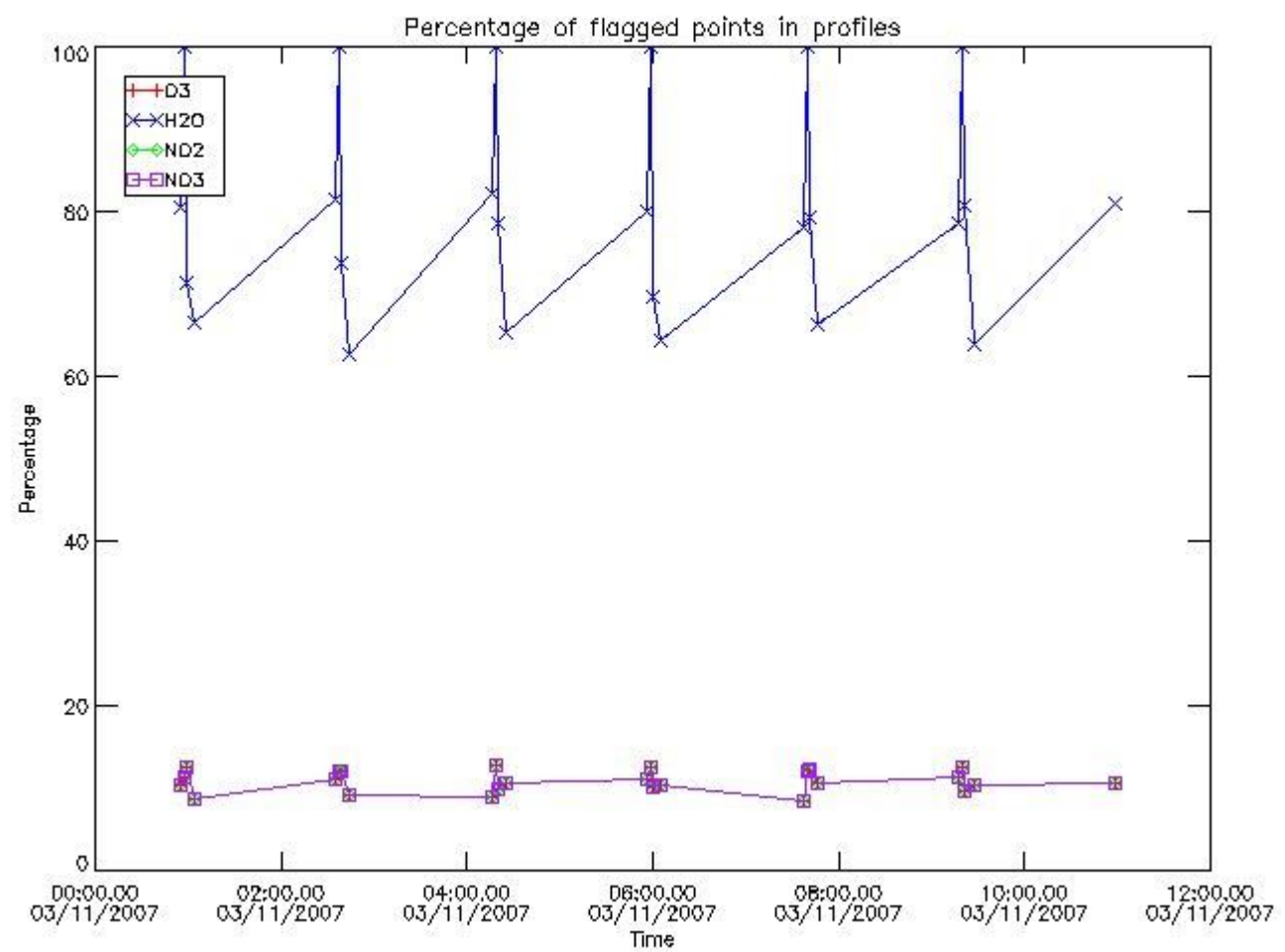
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20071103_000204_000000362063_00059_29672_8616.N1	03-NOV-2007 00:02:04	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	29672	No
2	GOM_NL__2PRFIN20071103_000314_000000352063_00059_29672_8617.N1	03-NOV-2007 00:03:14	Bright	35.000	76	27Gam Cas	2.3000	30000.	70	29672	No
3	GOM_NL__2PRFIN20071103_001119_000000362063_00059_29672_8618.N1	03-NOV-2007 00:11:19	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29672	No
4	GOM_NL__2PRFIN20071103_001926_000000402063_00059_29672_8619.N1	03-NOV-2007 00:19:26	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	29672	No
5	GOM_NL__2PRFIN20071103_002103_000000382063_00059_29672_8620.N1	03-NOV-2007 00:21:03	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	29672	No
6	GOM_NL__2PRFIN20071103_002446_000000552063_00059_29672_8621.N1	03-NOV-2007 00:24:46	Bright	54.500	174	52Psi UMa	3.0040	4400.0	109	29672	No
7	GOM_NL__2PRFIN20071103_003215_000000382063_00059_29672_8622.N1	03-NOV-2007 00:32:15	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	29672	No
8	GOM_NL__2PRFIN20071103_005451_000000492063_00060_29673_8622.N1	03-NOV-2007 00:54:51	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	29673	No
9	GOM_NL__2PRFIN20071103_005722_000000492063_00060_29673_8623.N1	03-NOV-2007 00:57:22	Dark	49.000	46	Del Vel	1.9540	10600.	98	29673	No
10	GOM_NL__2PRFIN20071103_005841_000000412063_00060_29673_8624.N1	03-NOV-2007 00:58:41	Dark	40.500	41	Eps Car	1.8600	4100.0	81	29673	No
11	GOM_NL__2PRFIN20071103_010353_000000592063_00060_29673_8625.N1	03-NOV-2007 01:03:53	Dark	58.500	2	Alp Car	-0.73600	7000.0	117	29673	No
12	GOM_NL__2PRFIN20071103_011400_000000402063_00060_29673_8626.N1	03-NOV-2007 01:14:00	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	29673	No
13	GOM_NL__2PRFIN20071103_013242_000000392063_00060_29673_8627.N1	03-NOV-2007 01:32:42	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	29673	No
14	GOM_NL__2PRFIN20071103_013646_000000392063_00060_29673_8628.N1	03-NOV-2007 01:36:46	Bright	38.500	53	43Bet And	2.0480	3300.0	77	29673	No
15	GOM_NL__2PRFIN20071103_013907_000000412063_00060_29673_8629.N1	03-NOV-2007 01:39:07	Bright	40.500	73	57Gam1And	2.2600	13100.	81	29673	No
16	GOM_NL__2PRFIN20071103_014240_000000352063_00060_29673_8630.N1	03-NOV-2007 01:42:40	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	29673	No
17	GOM_NL__2PRFIN20071103_014350_000000362063_00060_29673_8631.N1	03-NOV-2007 01:43:50	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29673	No
18	GOM_NL__2PRFIN20071103_015155_000000332063_00060_29673_8632.N1	03-NOV-2007 01:51:55	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	29673	No
19	GOM_NL__2PRFIN20071103_020002_000000412063_00060_29673_8633.N1	03-NOV-2007 02:00:02	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	29673	No
20	GOM_NL__2PRFIN20071103_020138_000000372063_00060_29673_8634.N1	03-NOV-2007 02:01:38	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	29673	No
21	GOM_NL__2PRFIN20071103_020522_000000382063_00060_29673_8635.N1	03-NOV-2007 02:05:22	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	29673	No
22	GOM_NL__2PRFIN20071103_021251_000000382063_00060_29673_8636.N1	03-NOV-2007 02:12:51	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	29673	No
23	GOM_NL__2PRFIN20071103_023528_000000462063_00061_29674_8629.N1	03-NOV-2007 02:35:28	Dark	46.000	65	Lam Vel	2.2040	4400.0	92	29674	No
24	GOM_NL__2PRFIN20071103_023759_000000422063_00061_29674_8630.N1	03-NOV-2007 02:37:59	Dark	42.000	46	Del Vel	1.9540	10600.	84	29674	No
25	GOM_NL__2PRFIN20071103_023918_000000432063_00061_29674_8631.N1	03-NOV-2007 02:39:18	Dark	42.500	41	Eps Car	1.8600	4100.0	85	29674	No
26	GOM_NL__2PRFIN20071103_024430_000000562063_00061_29674_8632.N1	03-NOV-2007 02:44:30	Dark	55.500	2	Alp Car	-0.73600	7000.0	111	29674	No
27	GOM_NL__2PRFIN20071103_025436_000000382063_00061_29674_8633.N1	03-NOV-2007 02:54:36	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	29674	No
28	GOM_NL__2PRFIN20071103_031318_000000392063_00061_29674_8634.N1	03-NOV-2007 03:13:18	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	29674	No
29	GOM_NL__2PRFIN20071103_031722_000000382063_00061_29674_8635.N1	03-NOV-2007 03:17:22	Bright	37.500	53	43Bet And	2.0480	3300.0	75	29674	No
30	GOM_NL__2PRFIN20071103_031942_000000402063_00061_29674_8636.N1	03-NOV-2007 03:19:42	Bright	40.000	73	57Gam1And	2.2600	13100.	80	29674	No
31	GOM_NL__2PRFIN20071103_032316_000000372063_00061_29674_8637.N1	03-NOV-2007 03:23:16	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29674	No
32	GOM_NL__2PRFIN20071103_032426_000000362063_00061_29674_8638.N1	03-NOV-2007 03:24:26	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29674	No
33	GOM_NL__2PRFIN20071103_033231_000000352063_00061_29674_8639.N1	03-NOV-2007 03:32:31	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	29674	No
34	GOM_NL__2PRFIN20071103_034037_000000402063_00061_29674_8640.N1	03-NOV-2007 03:40:37	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	29674	No
35	GOM_NL__2PRFIN20071103_034214_000000562063_00061_29674_8641.N1	03-NOV-2007 03:42:14	Bright	56.000	82	48Bet UMa	2.3650	10600.	112	29674	No
36	GOM_NL__2PRFIN20071103_034557_000000382063_00061_29674_8642.N1	03-NOV-2007 03:45:57	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	29674	No
37	GOM_NL__2PRFIN20071103_035327_000000452063_00061_29674_8643.N1	03-NOV-2007 03:53:27	Bright	45.000	96	68Del Leo	2.5600	9300.0	90	29674	No
38	GOM_NL__2PRFIN20071103_041605_000000572063_00062_29675_8643.N1	03-NOV-2007 04:16:05	Dark	56.500	65	Lam Vel	2.2040	4400.0	113	29675	No
39	GOM_NL__2PRFIN20071103_041836_000000402063_00062_29675_8644.N1	03-NOV-2007 04:18:36	Dark	40.000	46	Del Vel	1.9540	10600.	80	29675	No
40	GOM_NL__2PRFIN20071103_041954_000000522063_00062_29675_8645.N1	03-NOV-2007 04:19:54	Dark	52.000	41	Eps Car	1.8600	4100.0	104	29675	No
41	GOM_NL__2PRFIN20071103_042507_000000482063_00062_29675_8646.N1	03-NOV-2007 04:25:07	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	29675	No
42	GOM_NL__2PRFIN20071103_043513_000000402063_00062_29675_8647.N1	03-NOV-2007 04:35:13	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	29675	No

43	GOM_NL__2PRFIN20071103_045354_000000382063_00062_29675_8648.N1	03-NOV-2007 04:53:54	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	29675	No
44	GOM_NL__2PRFIN20071103_045758_000000382063_00062_29675_8649.N1	03-NOV-2007 04:57:58	Bright	38.000	53	43Bet And	2.0480	3300.0	76	29675	No
45	GOM_NL__2PRFIN20071103_050018_000000382063_00062_29675_8650.N1	03-NOV-2007 05:00:18	Bright	38.000	73	57Gam1And	2.2600	13100.	76	29675	No
46	GOM_NL__2PRFIN20071103_050352_000000362063_00062_29675_8651.N1	03-NOV-2007 05:03:52	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	29675	No
47	GOM_NL__2PRFIN20071103_050502_000000362063_00062_29675_8652.N1	03-NOV-2007 05:05:02	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29675	No
48	GOM_NL__2PRFIN20071103_051307_000000372063_00062_29675_8653.N1	03-NOV-2007 05:13:07	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	29675	No
49	GOM_NL__2PRFIN20071103_052113_000000402063_00062_29675_8654.N1	03-NOV-2007 05:21:13	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	29675	No
50	GOM_NL__2PRFIN20071103_052250_000000372063_00062_29675_8655.N1	03-NOV-2007 05:22:50	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	29675	No
51	GOM_NL__2PRFIN20071103_052633_000000472063_00062_29675_8656.N1	03-NOV-2007 05:26:33	Bright	47.000	174	52Psi UMa	3.0040	4400.0	94	29675	No
52	GOM_NL__2PRFIN20071103_053403_000000422063_00062_29675_8657.N1	03-NOV-2007 05:34:03	Bright	42.000	96	68Del Leo	2.5600	9300.0	84	29675	No
53	GOM_NL__2PRFIN20071103_055642_000000462063_00063_29676_8658.N1	03-NOV-2007 05:56:42	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	29676	No
54	GOM_NL__2PRFIN20071103_055912_000000412063_00063_29676_8659.N1	03-NOV-2007 05:59:12	Dark	40.500	46	Del Vel	1.9540	10600.	81	29676	No
55	GOM_NL__2PRFIN20071103_060031_000000552063_00063_29676_8660.N1	03-NOV-2007 06:00:31	Dark	55.000	41	Eps Car	1.8600	4100.0	110	29676	No
56	GOM_NL__2PRFIN20071103_060543_000000502063_00063_29676_8661.N1	03-NOV-2007 06:05:43	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	29676	No
57	GOM_NL__2PRFIN20071103_061549_000000412063_00063_29676_8662.N1	03-NOV-2007 06:15:49	Straylight	41.000	157	The1Eri	2.9060	9300.0	82	29676	No
58	GOM_NL__2PRFIN20071103_063429_000000392063_00063_29676_8663.N1	03-NOV-2007 06:34:29	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	29676	No
59	GOM_NL__2PRFIN20071103_063834_000000362063_00063_29676_8664.N1	03-NOV-2007 06:38:34	Bright	36.000	53	43Bet And	2.0480	3300.0	72	29676	No
60	GOM_NL__2PRFIN20071103_064054_000000382063_00063_29676_8665.N1	03-NOV-2007 06:40:54	Bright	37.500	73	57Gam1And	2.2600	13100.	75	29676	No
61	GOM_NL__2PRFIN20071103_064428_000000372063_00063_29676_8666.N1	03-NOV-2007 06:44:28	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29676	No
62	GOM_NL__2PRFIN20071103_064538_000000362063_00063_29676_8667.N1	03-NOV-2007 06:45:38	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	29676	No
63	GOM_NL__2PRFIN20071103_065343_000000362063_00063_29676_8668.N1	03-NOV-2007 06:53:43	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29676	No
64	GOM_NL__2PRFIN20071103_070149_000000412063_00063_29676_8669.N1	03-NOV-2007 07:01:49	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	29676	No
65	GOM_NL__2PRFIN20071103_070326_000000392063_00063_29676_8670.N1	03-NOV-2007 07:03:26	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	29676	No
66	GOM_NL__2PRFIN20071103_070709_000000392063_00063_29676_8671.N1	03-NOV-2007 07:07:09	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	29676	No
67	GOM_NL__2PRFIN20071103_071439_000000392063_00063_29676_8672.N1	03-NOV-2007 07:14:39	Bright	38.500	96	68Del Leo	2.5600	9300.0	77	29676	No
68	GOM_NL__2PRFIN20071103_073719_000000602063_00064_29677_8678.N1	03-NOV-2007 07:37:19	Dark	60.000	65	Lam Vel	2.2040	4400.0	120	29677	No
69	GOM_NL__2PRFIN20071103_073949_000000432063_00064_29677_8679.N1	03-NOV-2007 07:39:49	Dark	42.500	46	Del Vel	1.9540	10600.	85	29677	No
70	GOM_NL__2PRFIN20071103_074108_000000422063_00064_29677_8680.N1	03-NOV-2007 07:41:08	Dark	41.500	41	Eps Car	1.8600	4100.0	83	29677	No
71	GOM_NL__2PRFIN20071103_074620_000000482063_00064_29677_8681.N1	03-NOV-2007 07:46:20	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	29677	No
72	GOM_NL__2PRFIN20071103_075626_000000392063_00064_29677_8682.N1	03-NOV-2007 07:56:26	Straylight	38.500	157	The1Eri	2.9060	9300.0	77	29677	No
73	GOM_NL__2PRFIN20071103_081505_000000382063_00064_29677_8683.N1	03-NOV-2007 08:15:05	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	29677	No
74	GOM_NL__2PRFIN20071103_081909_000000362063_00064_29677_8684.N1	03-NOV-2007 08:19:09	Bright	35.500	53	43Bet And	2.0480	3300.0	71	29677	No
75	GOM_NL__2PRFIN20071103_082130_000000372063_00064_29677_8685.N1	03-NOV-2007 08:21:30	Bright	37.000	73	57Gam1And	2.2600	13100.	74	29677	No
76	GOM_NL__2PRFIN20071103_082504_000000372063_00064_29677_8686.N1	03-NOV-2007 08:25:04	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	29677	No
77	GOM_NL__2PRFIN20071103_082614_000000352063_00064_29677_8687.N1	03-NOV-2007 08:26:14	Bright	35.000	76	27Gam Cas	2.3000	30000.	70	29677	No
78	GOM_NL__2PRFIN20071103_083419_000000342063_00064_29677_8688.N1	03-NOV-2007 08:34:19	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	29677	No
79	GOM_NL__2PRFIN20071103_084225_000000392063_00064_29677_8689.N1	03-NOV-2007 08:42:25	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	29677	No
80	GOM_NL__2PRFIN20071103_084402_000000362063_00064_29677_8690.N1	03-NOV-2007 08:44:02	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	29677	No
81	GOM_NL__2PRFIN20071103_084745_000000392063_00064_29677_8691.N1	03-NOV-2007 08:47:45	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	29677	No
82	GOM_NL__2PRFIN20071103_085516_000000462063_00064_29677_8692.N1	03-NOV-2007 08:55:16	Bright	45.500	96	68Del Leo	2.5600	9300.0	91	29677	No
83	GOM_NL__2PRFIN20071103_091756_000000452063_00065_29678_8692.N1	03-NOV-2007 09:17:56	Dark	45.000	65	Lam Vel	2.2040	4400.0	90	29678	No
84	GOM_NL__2PRFIN20071103_092026_000000412063_00065_29678_8693.N1	03-NOV-2007 09:20:26	Dark	40.500	46	Del Vel	1.9540	10600.	81	29678	No
85	GOM_NL__2PRFIN20071103_092144_000000532063_00065_29678_8694.N1	03-NOV-2007 09:21:44	Dark	52.500	41	Eps Car	1.8600	4100.0	105	29678	No
86	GOM_NL__2PRFIN20071103_092657_000000492063_00065_29678_8695.N1	03-NOV-2007 09:26:57	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	29678	No
87	GOM_NL__2PRFIN20071103_093702_000000392063_00065_29678_8696.N1	03-NOV-2007 09:37:02	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	29678	No
88	GOM_NL__2PRFIN20071103_095541_000000382063_00065_29678_8697.N1	03-NOV-2007 09:55:41	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	29678	No
89	GOM_NL__2PRFIN20071103_095945_000000362063_00065_29678_8698.N1	03-NOV-2007 09:59:45	Bright	36.000	53	43Bet And	2.0480	3300.0	72	29678	No
90	GOM_NL__2PRFIN20071103_100205_000000392063_00065_29678_8699.N1	03-NOV-2007 10:02:05	Bright	39.000	73	57Gam1And	2.2600	13100.	78	29678	No
91	GOM_NL__2PRFIN20071103_100540_000000382063_00065_29678_8700.N1	03-NOV-2007 10:05:40	Bright	37.500	68	18Alp Cas	2.2250	4500.0	75	29678	No
92	GOM_NL__2PRFIN20071103_100650_000000362063_00065_29678_8701.N1	03-NOV-2007 10:06:50	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	29678	No
93	GOM_NL__2PRFIN20071103_101455_000000362063_00065_29678_8702.N1	03-NOV-2007 10:14:55	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29678	No
94	GOM_NL__2PRFIN20071103_102301_000000402063_00065_29678_8703.N1	03-NOV-2007 10:23:01	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	29678	No
95	GOM_NL__2PRFIN20071103_102438_000000392063_00065_29678_8704.N1	03-NOV-2007 10:24:38	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	29678	No
96	GOM_NL__2PRFIN20071103_102821_000000402063_00065_29678_8705.N1	03-NOV-2007 10:28:21	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	29678	No
97	GOM_NL__2PRFIN20071103_103552_000000382063_00065_29678_8706.N1	03-NOV-2007 10:35:52	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	29678	No
98	GOM_NL__2PRFIN20071103_105832_000000482063_00066_29679_8722.N1	03-NOV-2007 10:58:32	Dark	47.500	65	Lam Vel	2.2040	4400.0	95	29679	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.

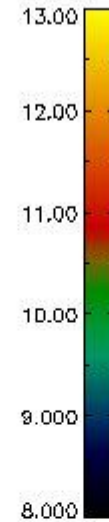
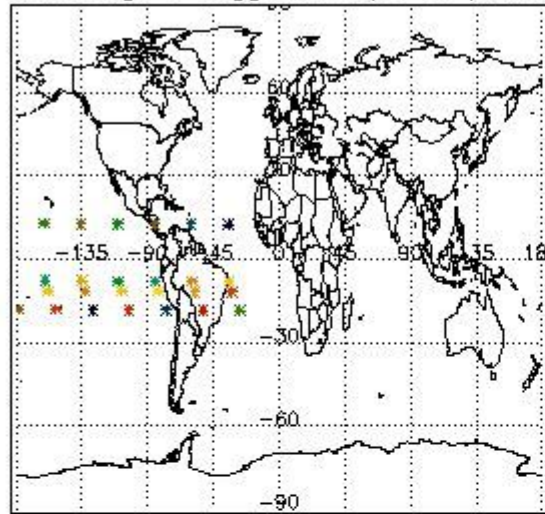
#### 3.1 Plot quality information per product (time dependant)



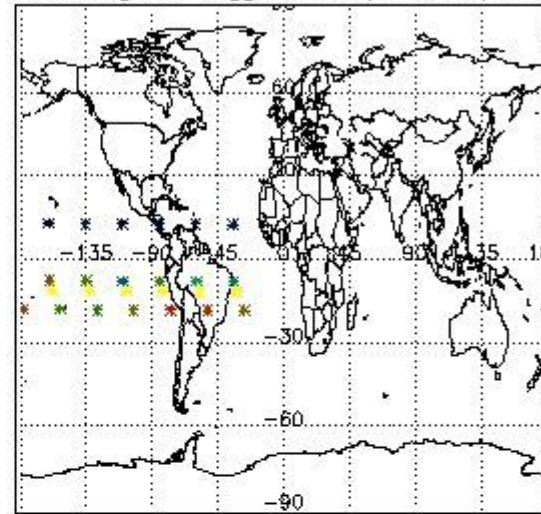
#### 3.2 Plot quality information per product (world map)



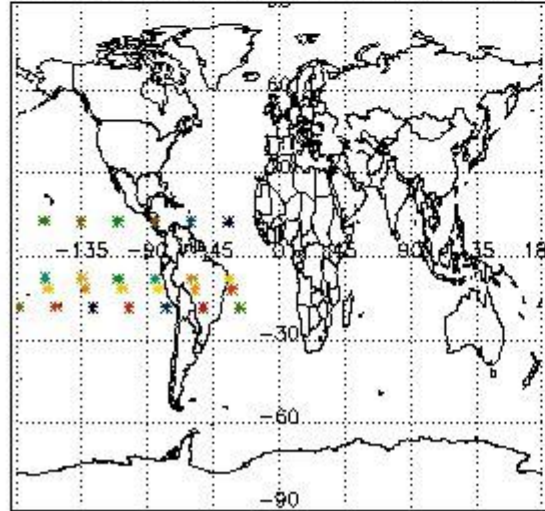
Percentage of flagged data per O3 profile



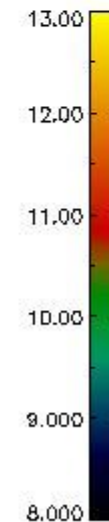
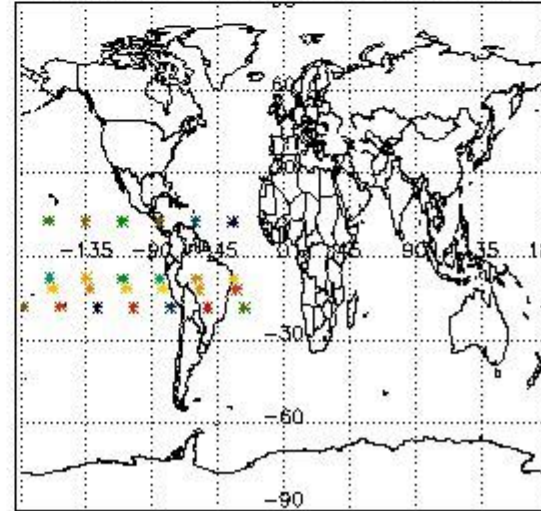
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

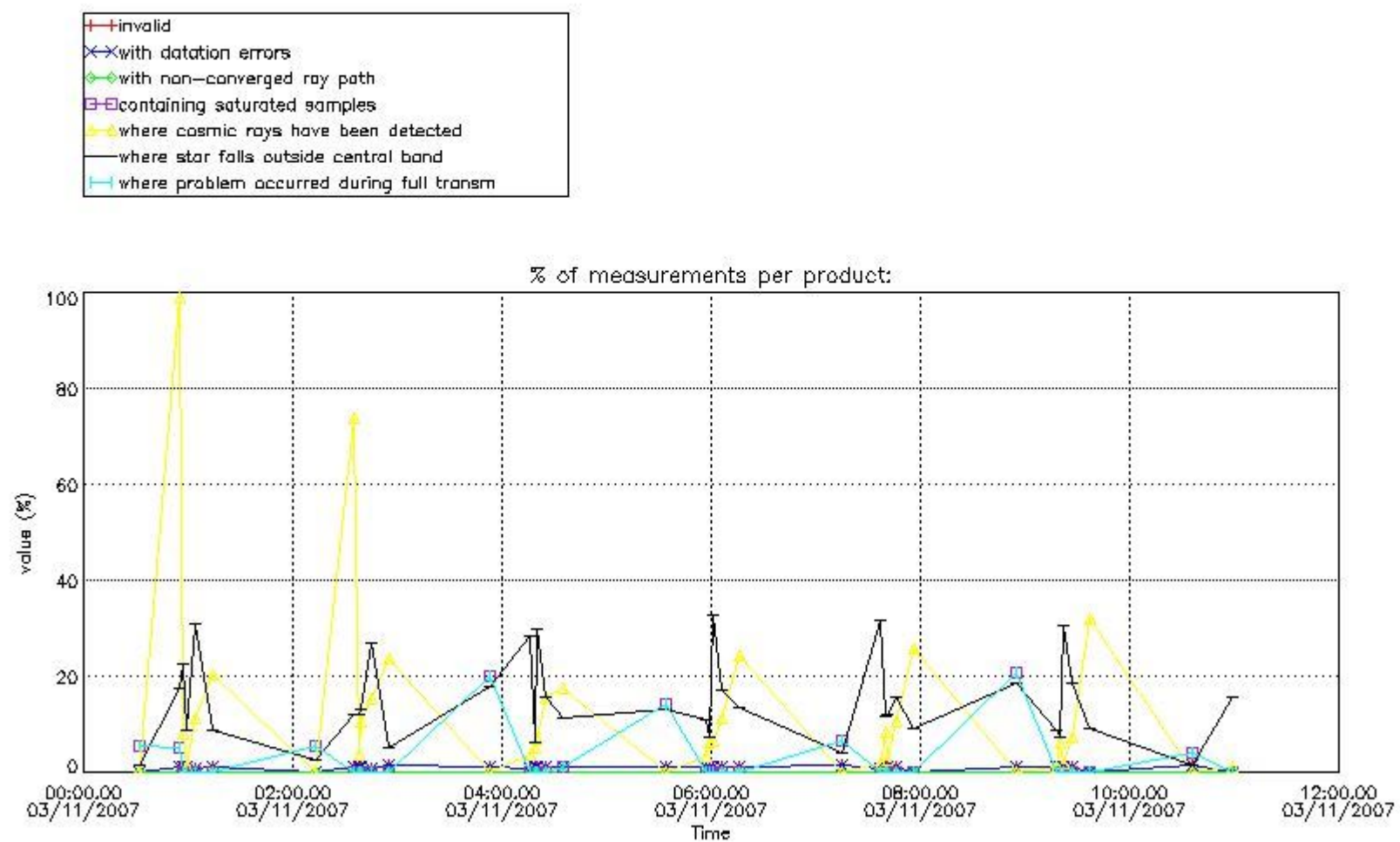


#### 4. Level 1 quality information per product

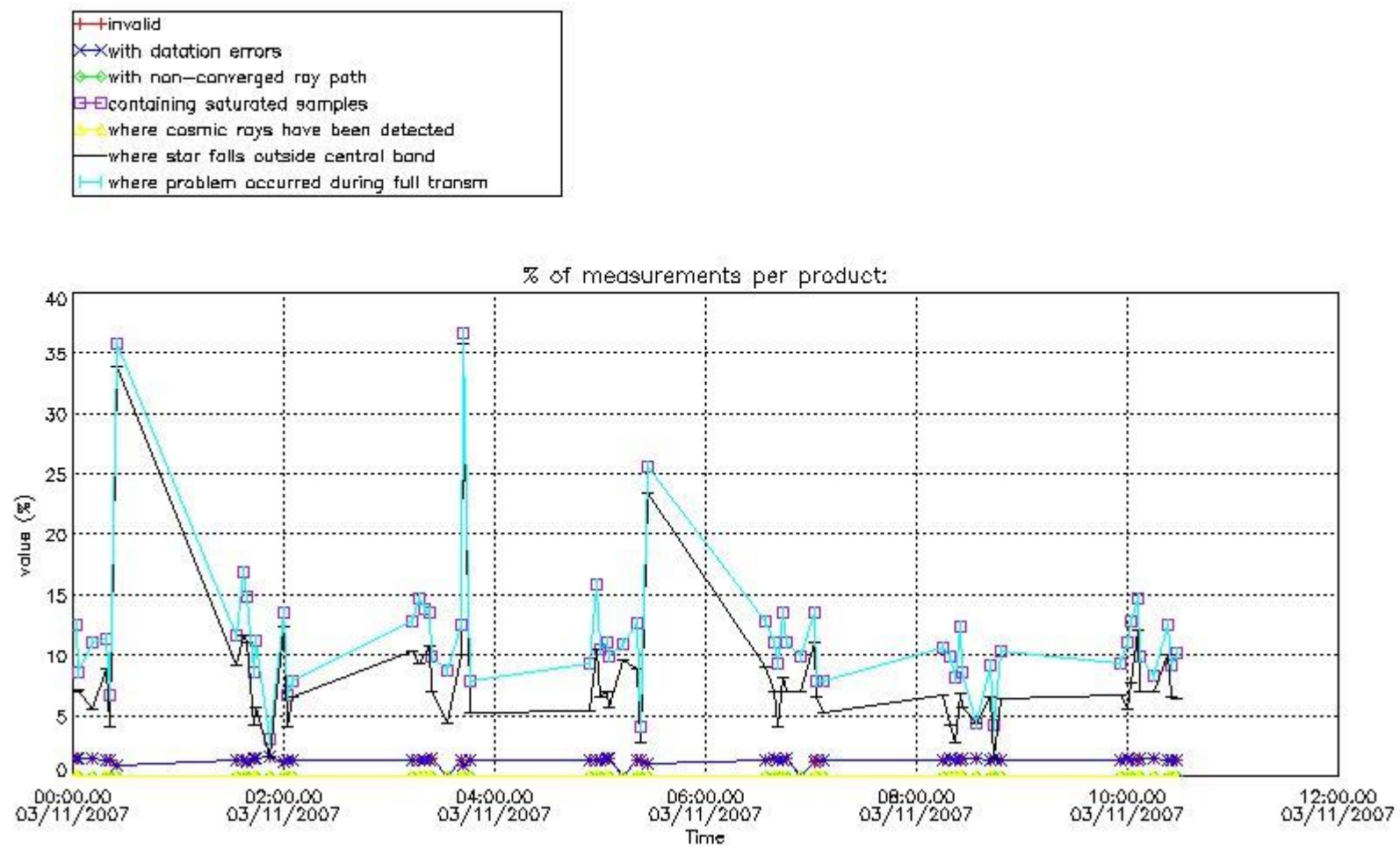
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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): ENVISAT DESCENDING passes

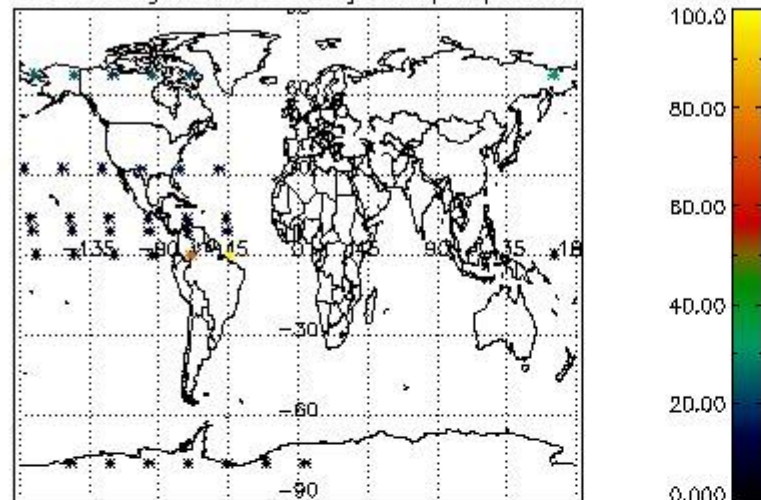


4.2 Plot quality information per product coming from level 1b processing (world map)

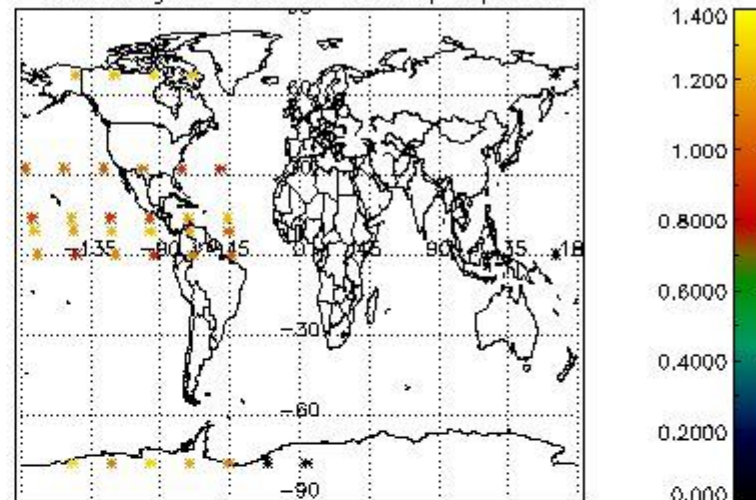
4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



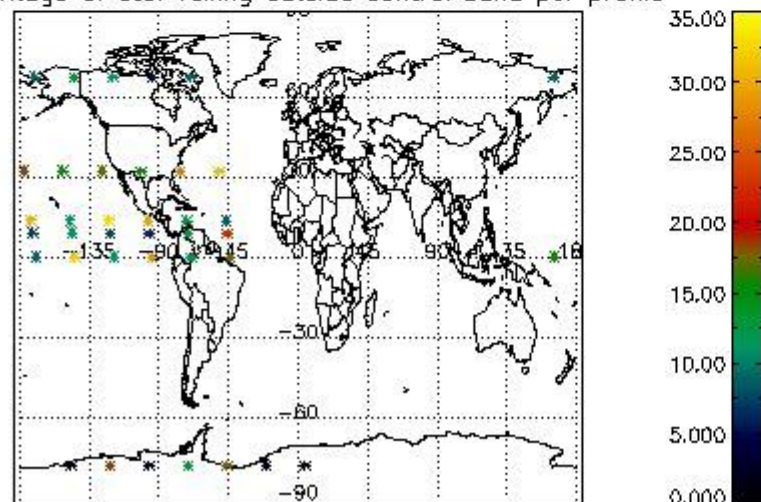
Percentage of cosmic ray hits per profile



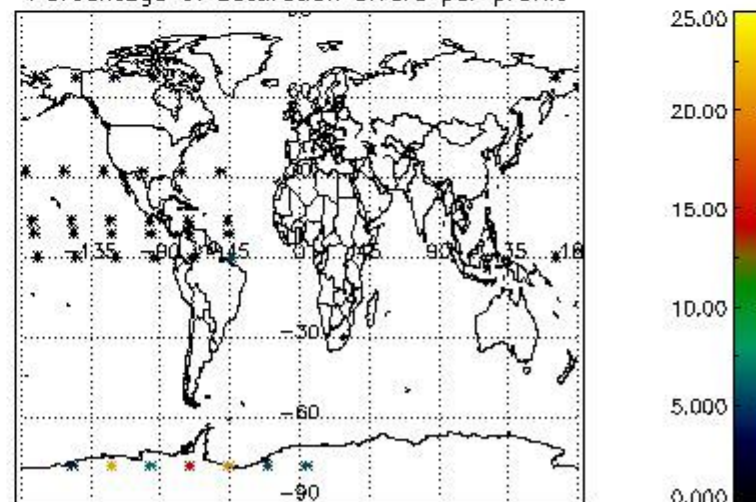
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

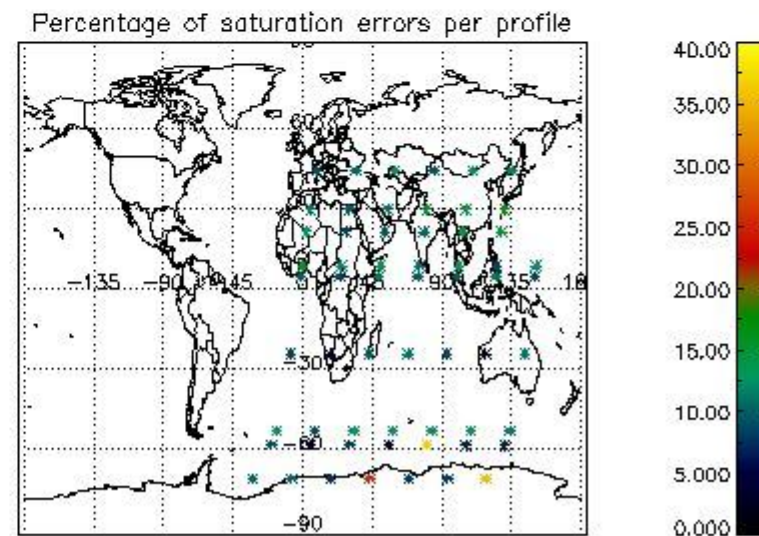
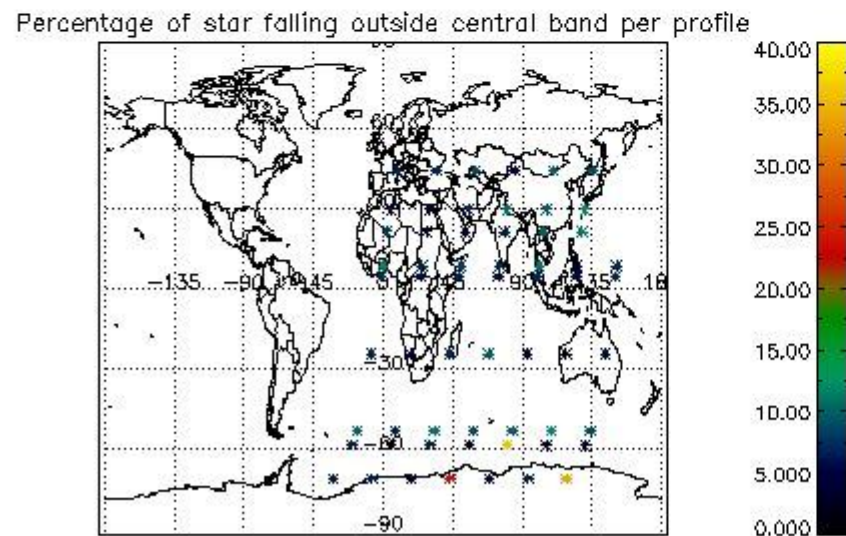
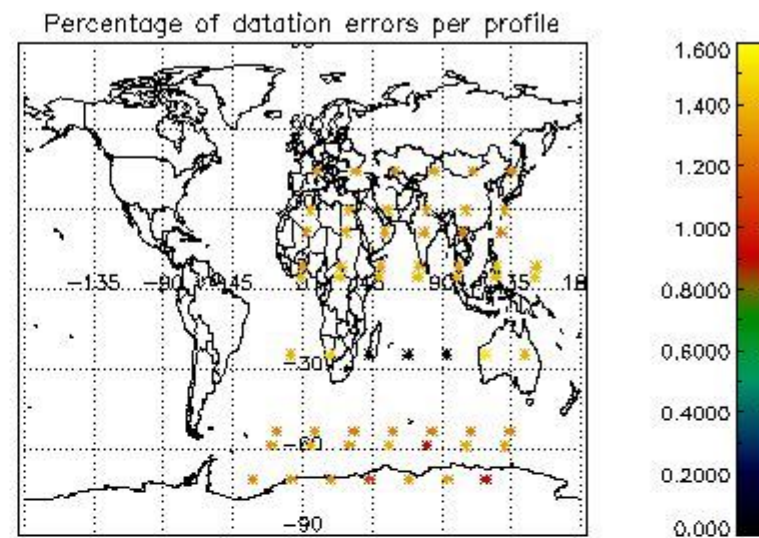
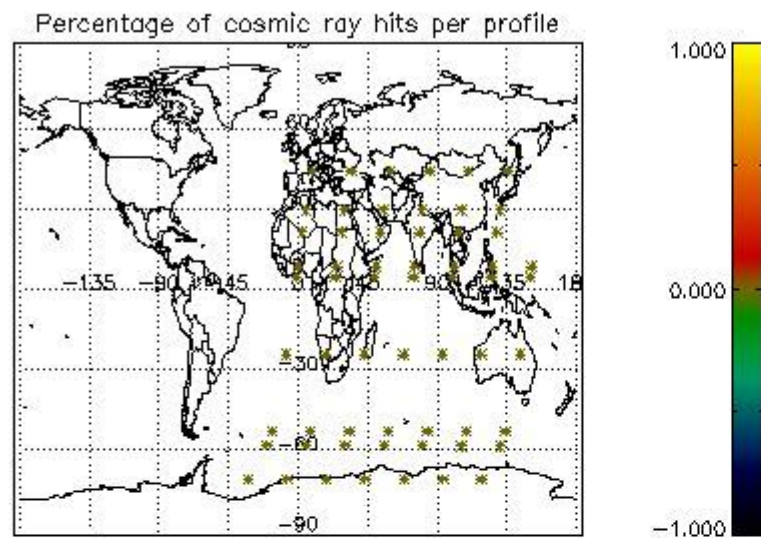


Percentage of saturation errors per profile



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

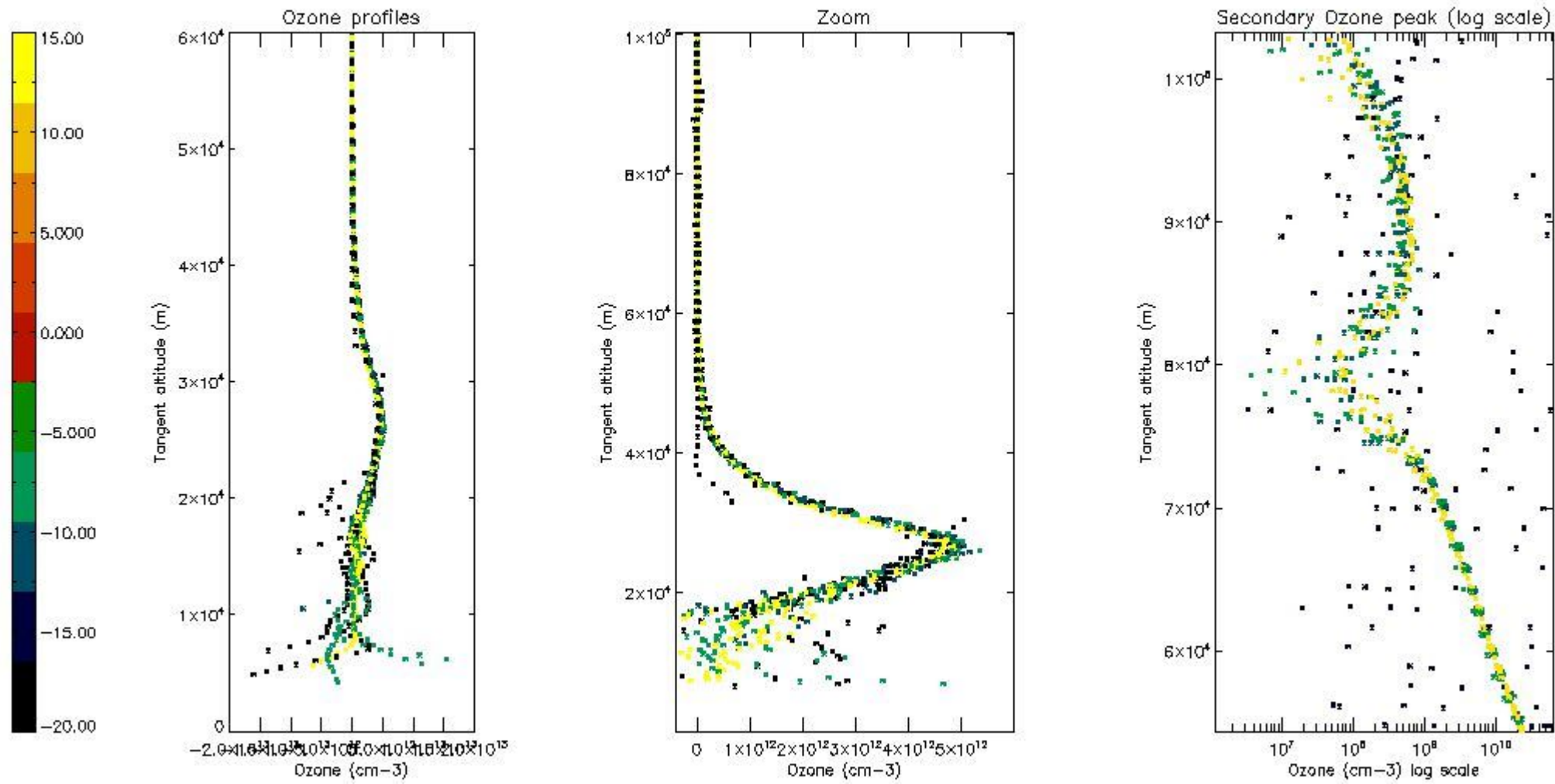
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	16

STD < 10	13
STD < 5	7

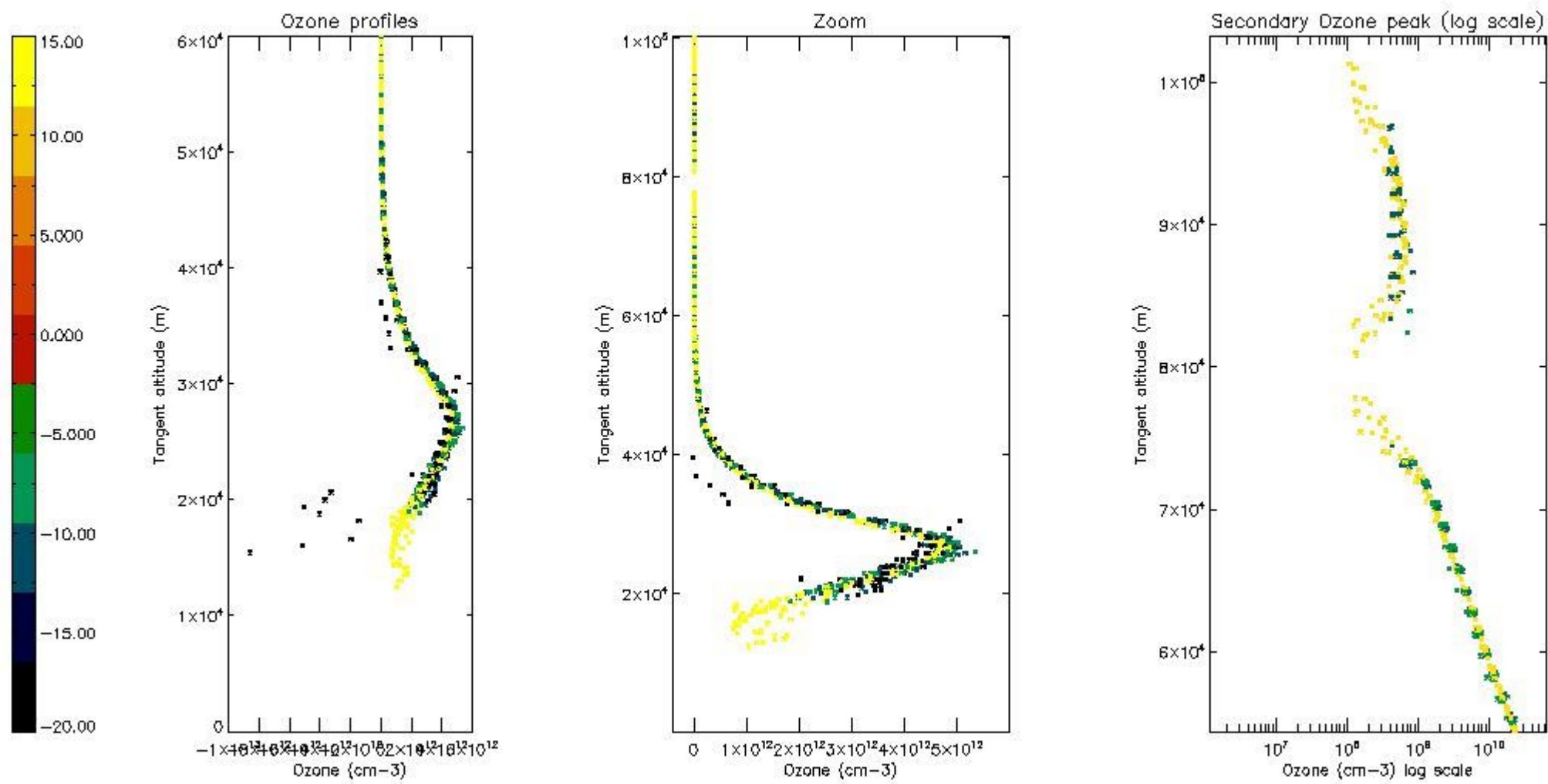
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



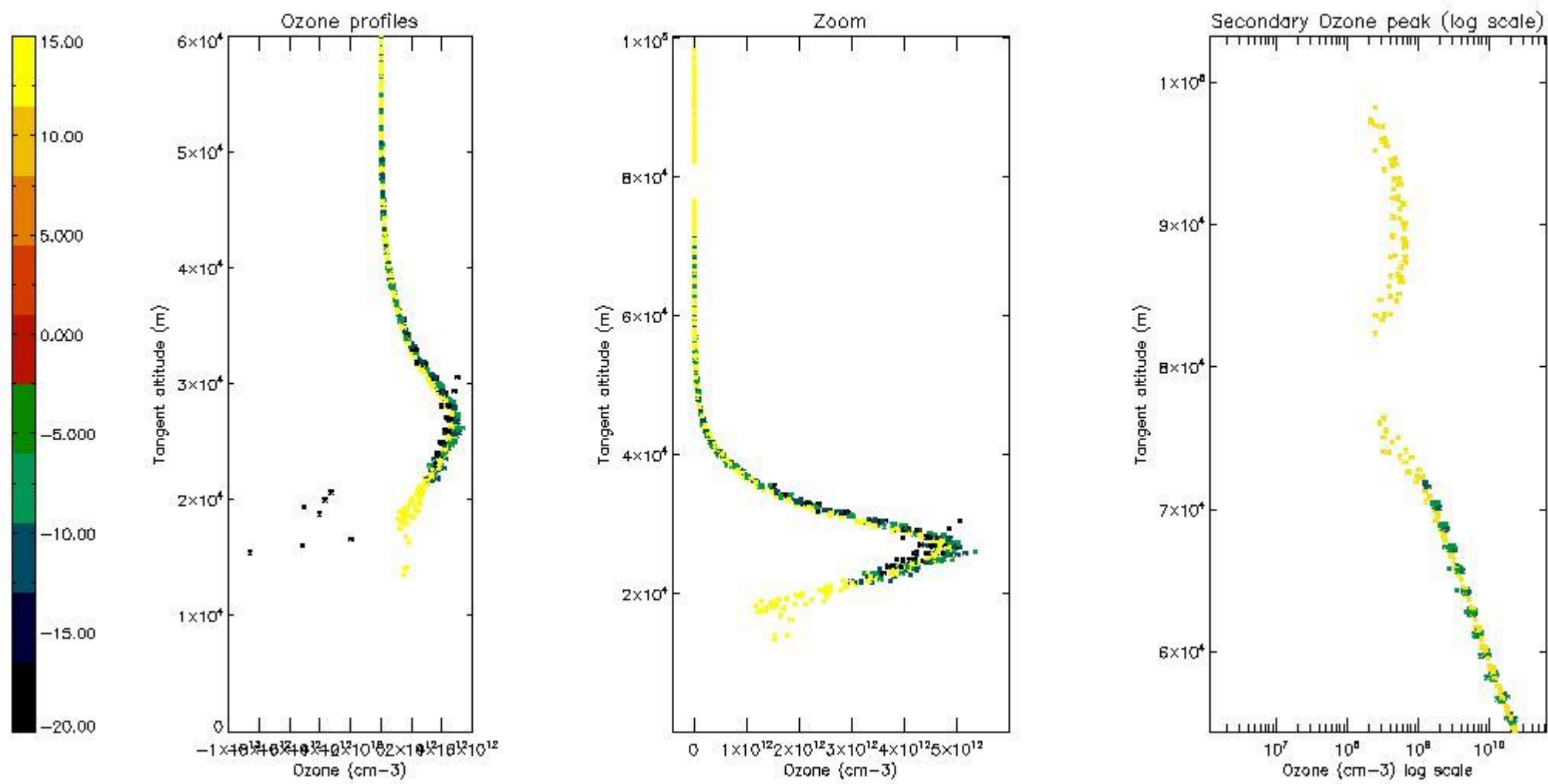
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

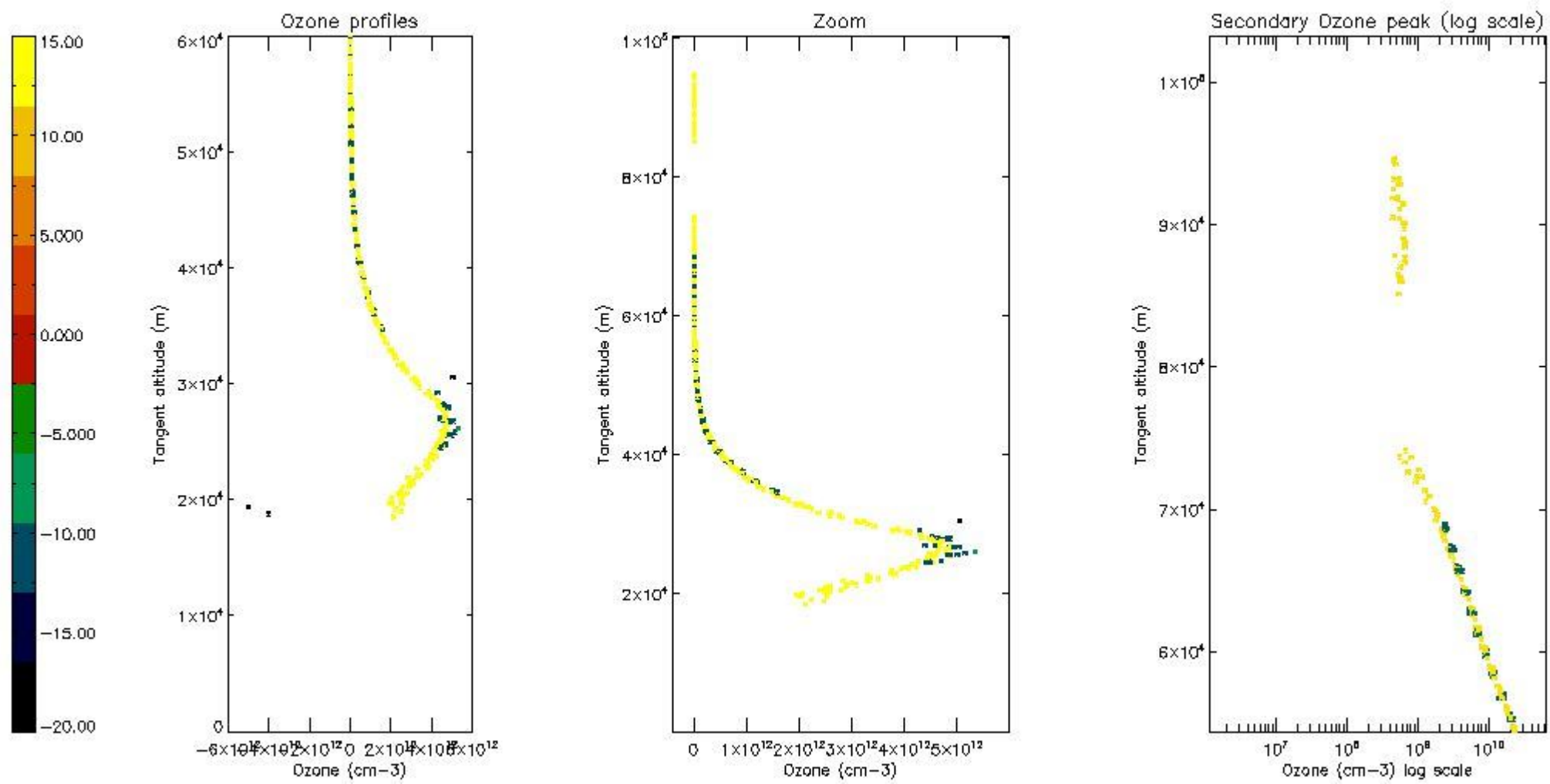
The colorbar represents the latitude.



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

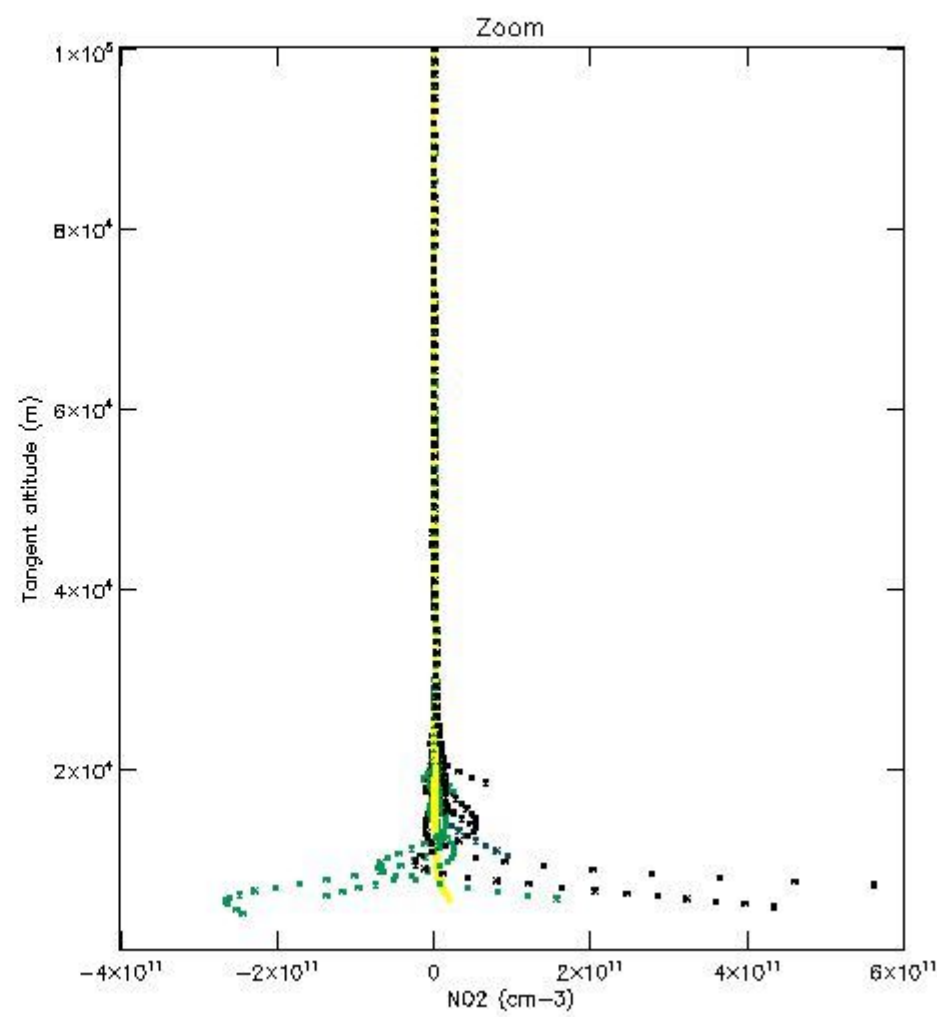
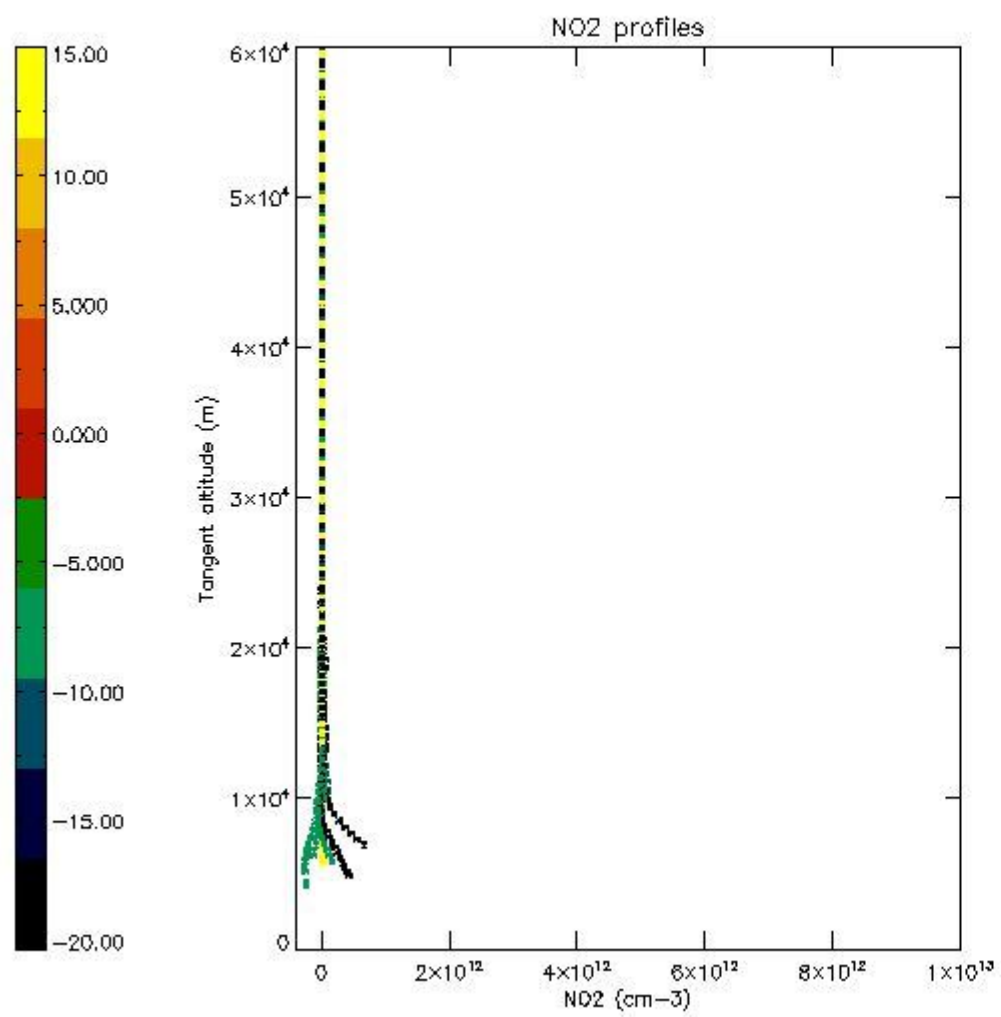
The colorbar represents the latitude.





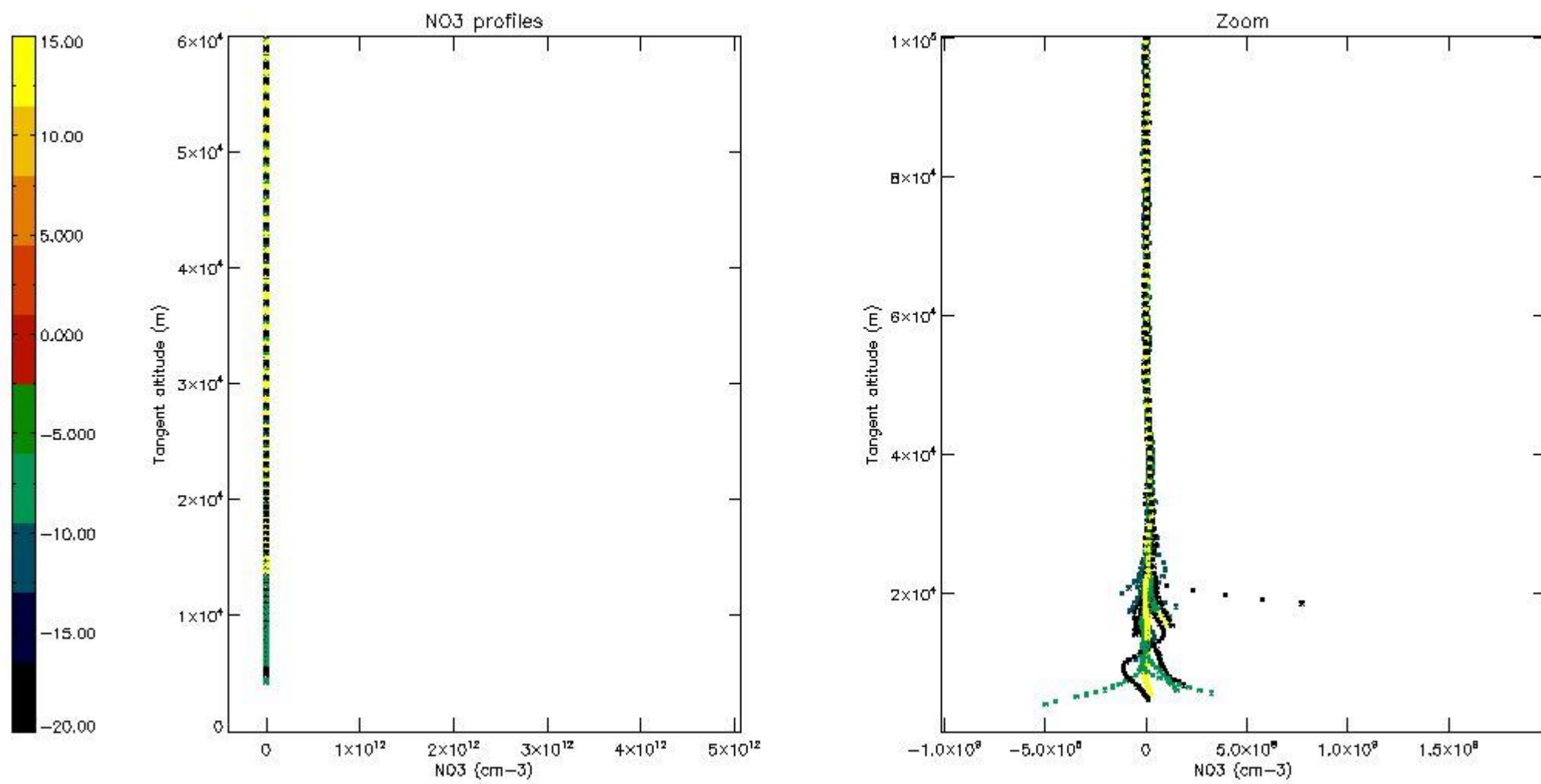
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



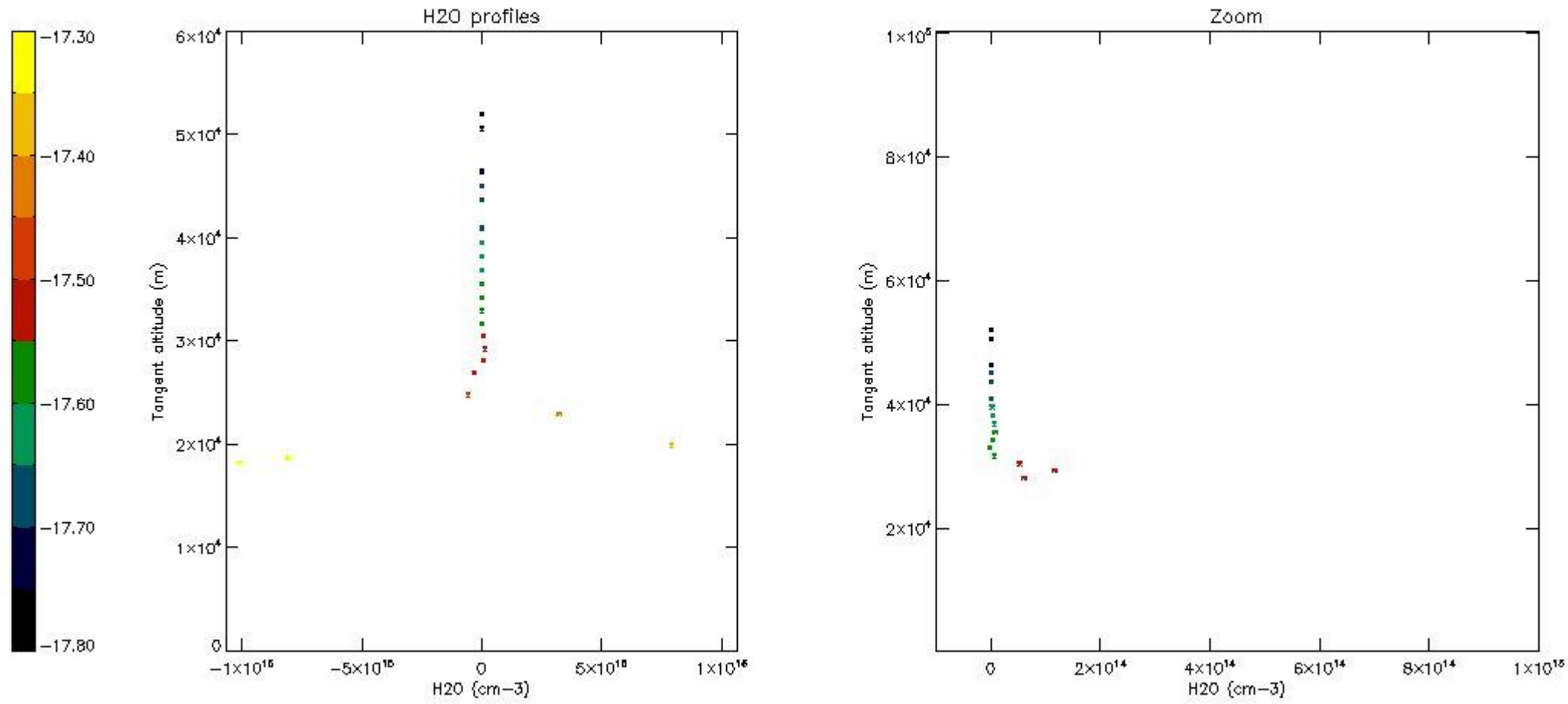
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot H<sub>2</sub>O 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.

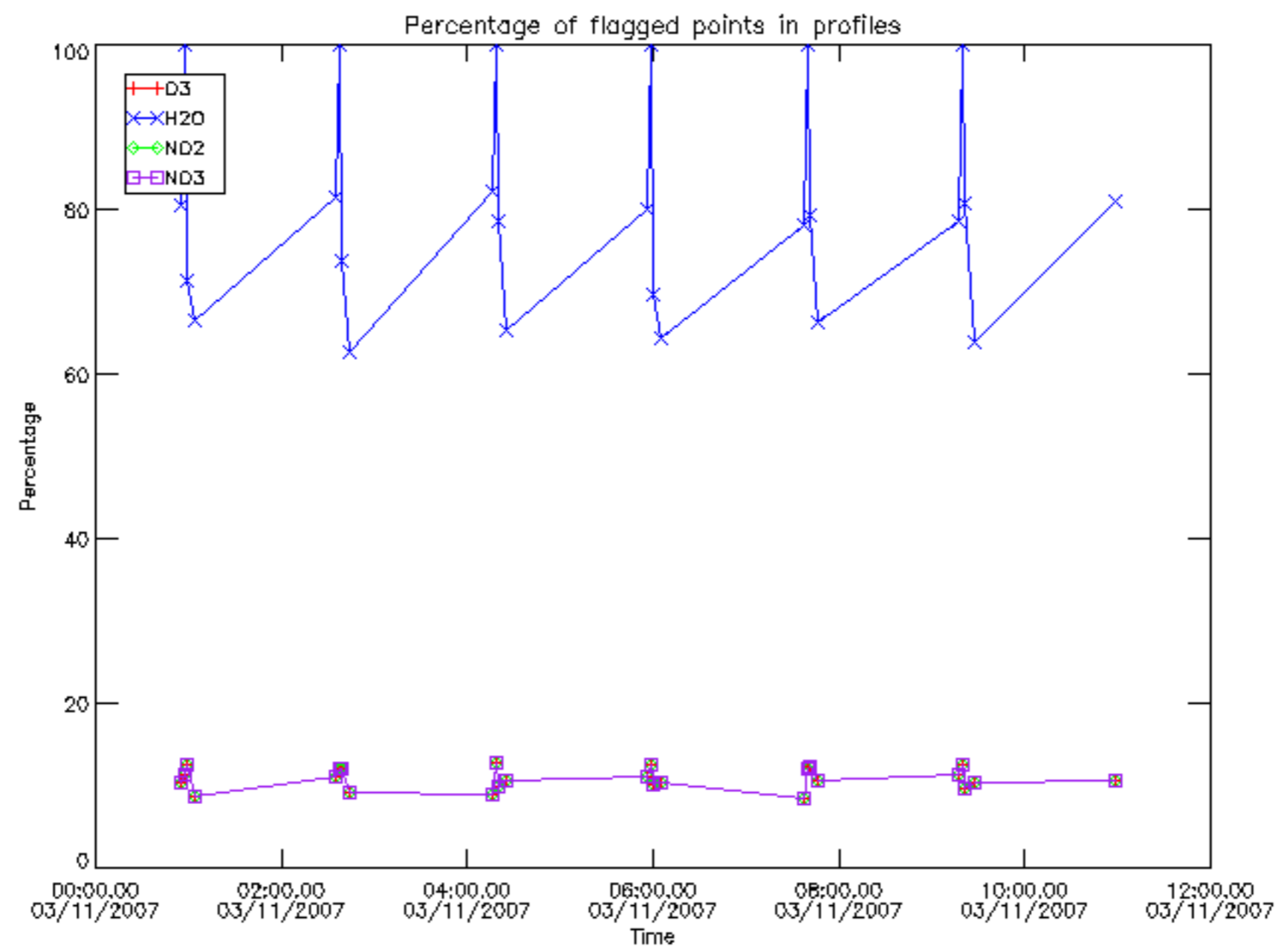


## 6. Auxiliary Data Files used for the production reported in section 2

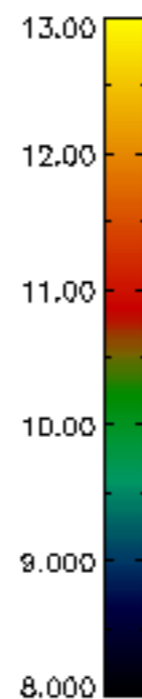
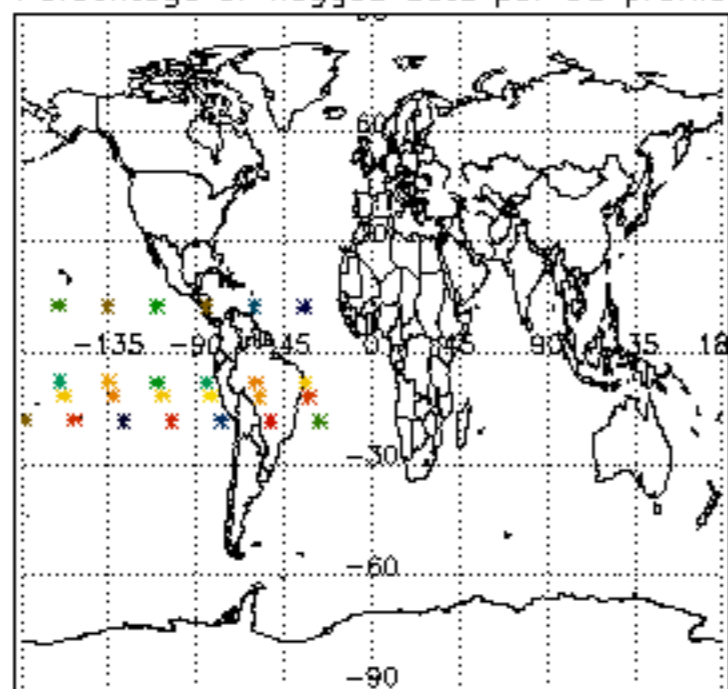
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	03-NOV-2007 00:02:04
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-NOV-2007 00:02:04
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-NOV-2007 00:02:04

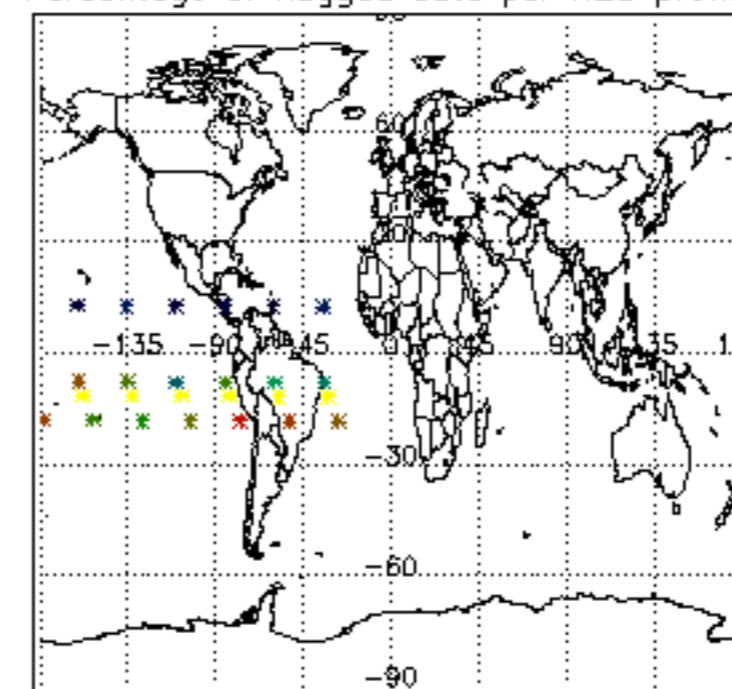




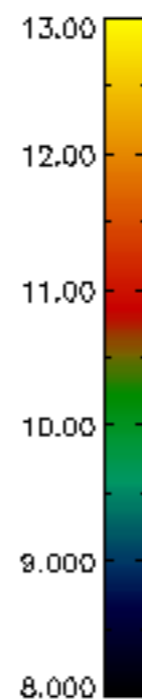
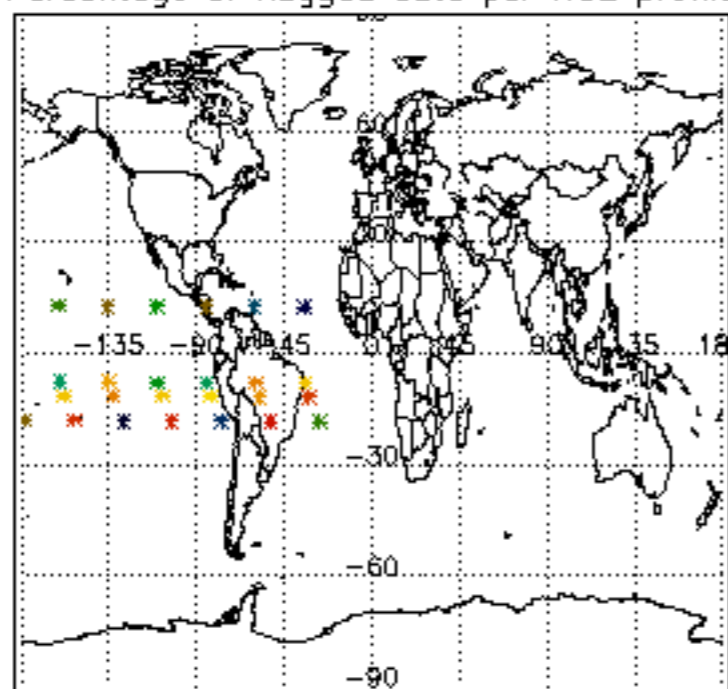
Percentage of flagged data per D3 profile



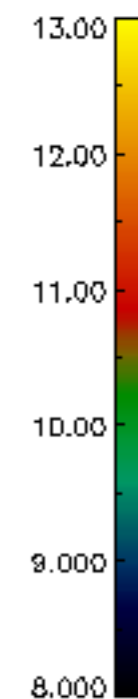
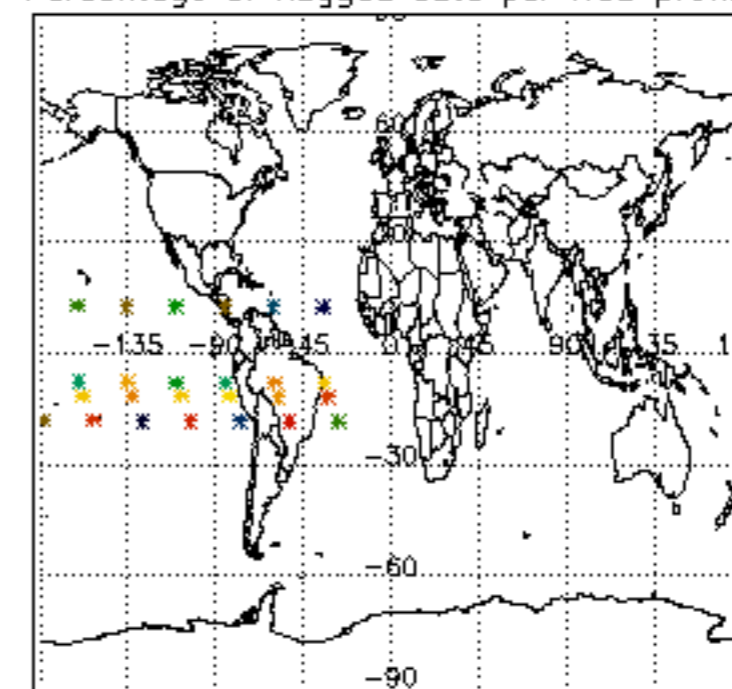
Percentage of flagged data per H2O profile

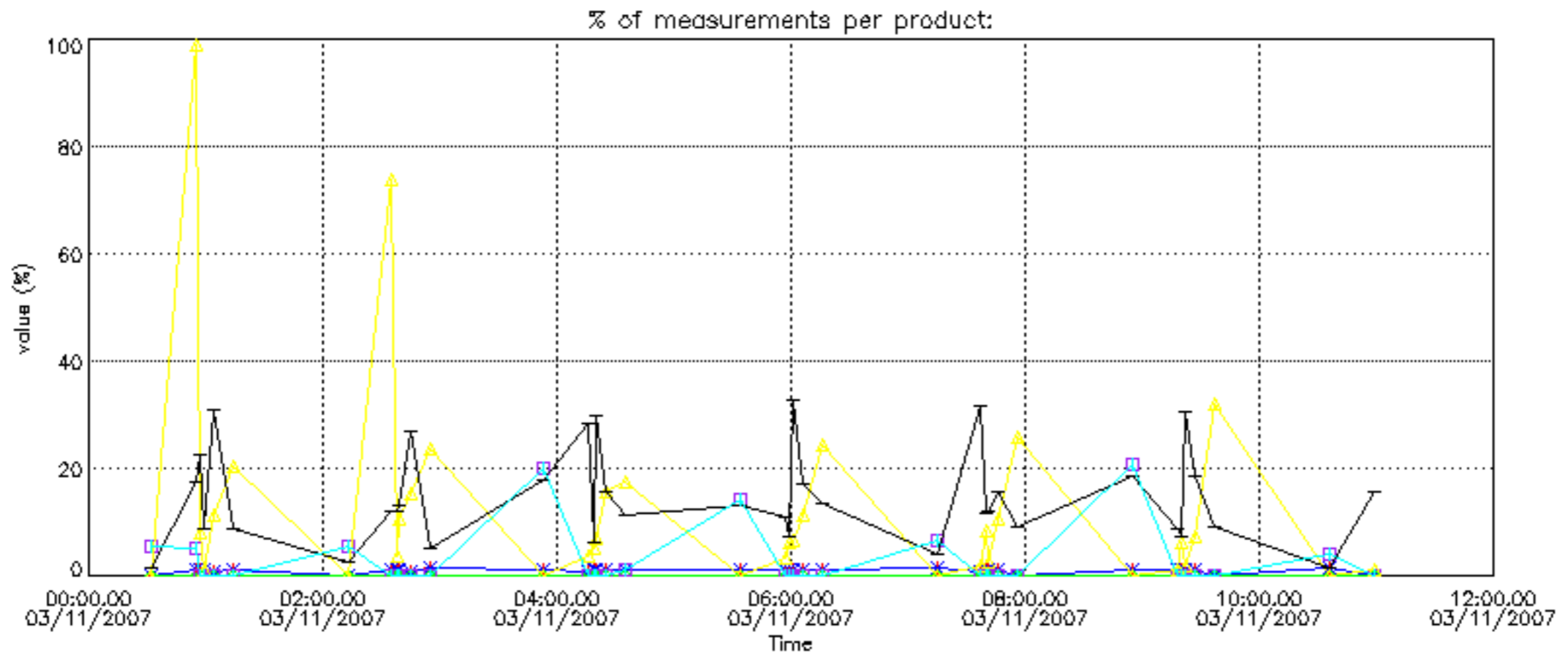


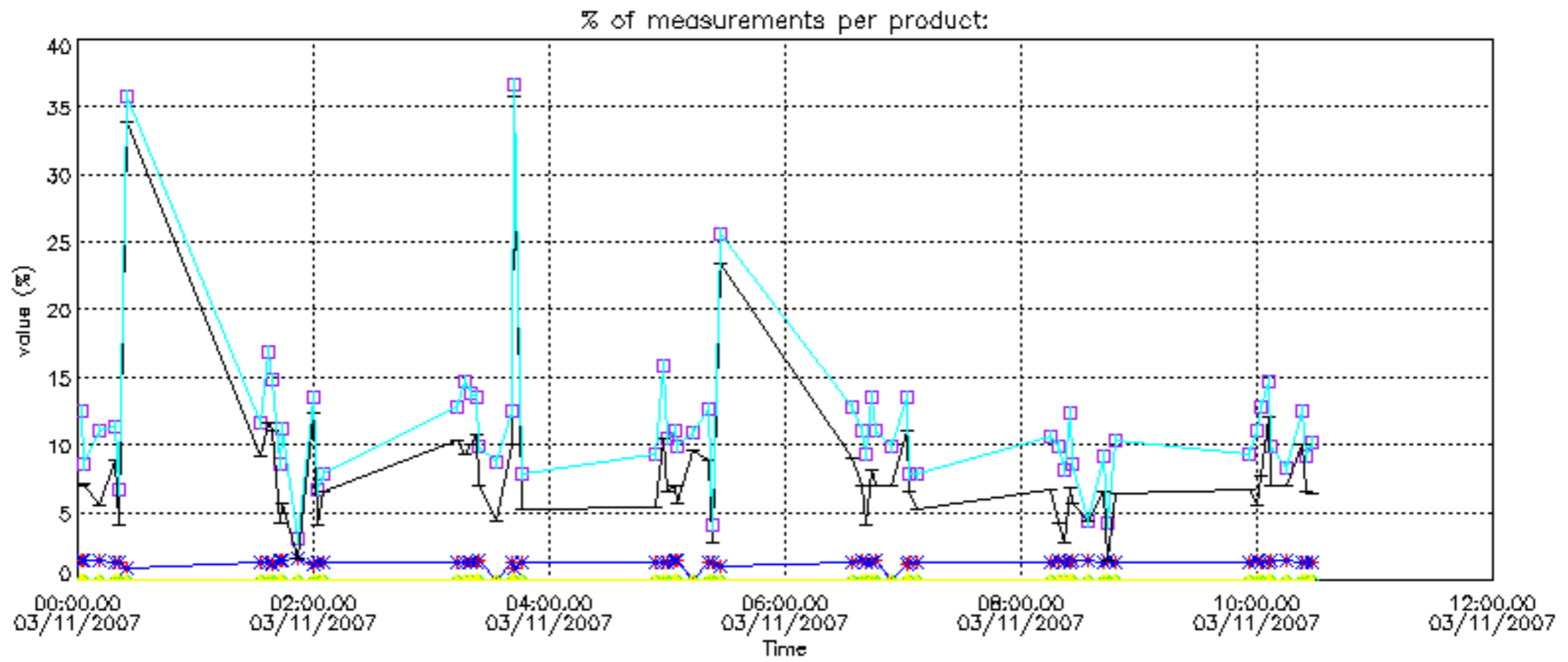
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

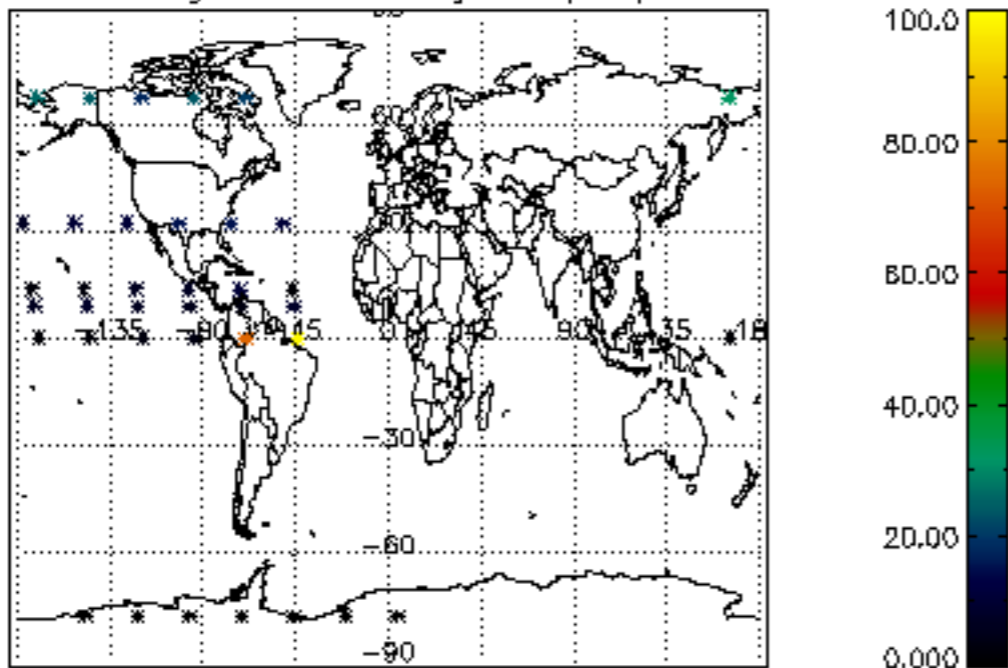




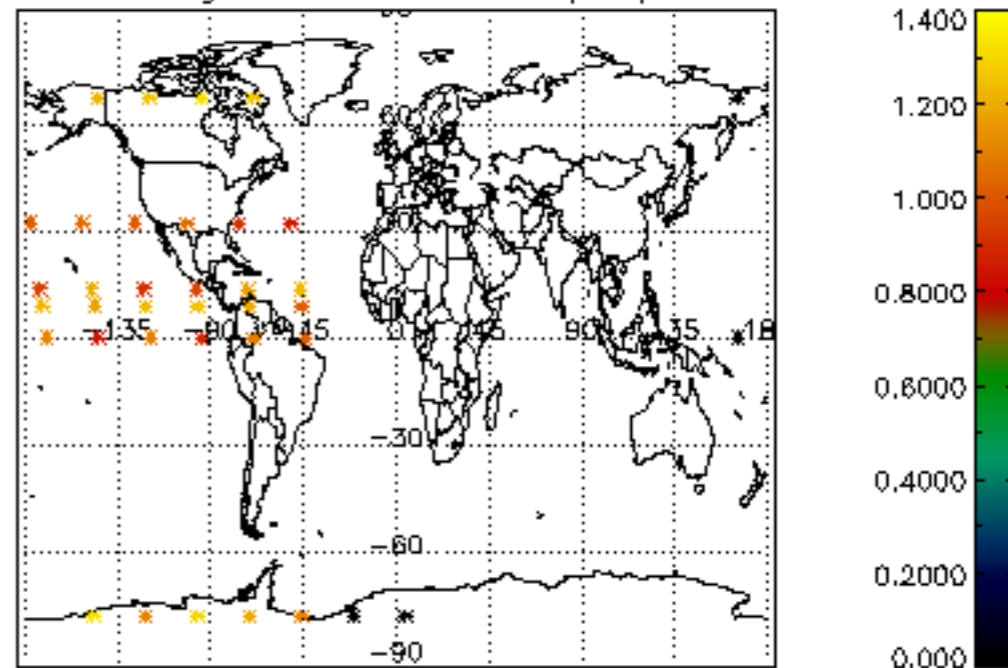




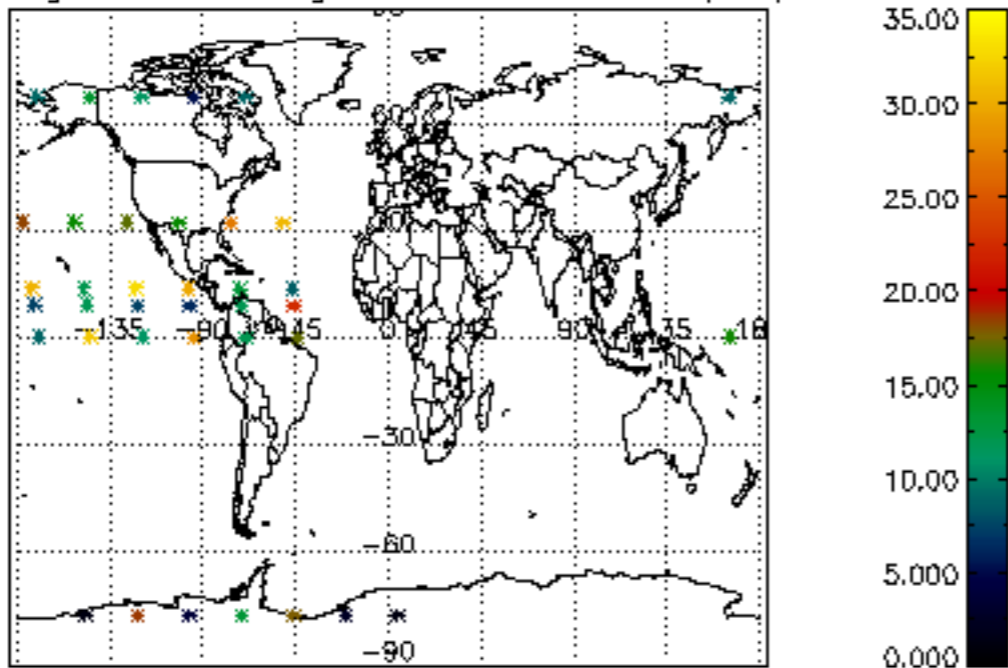
Percentage of cosmic ray hits per profile



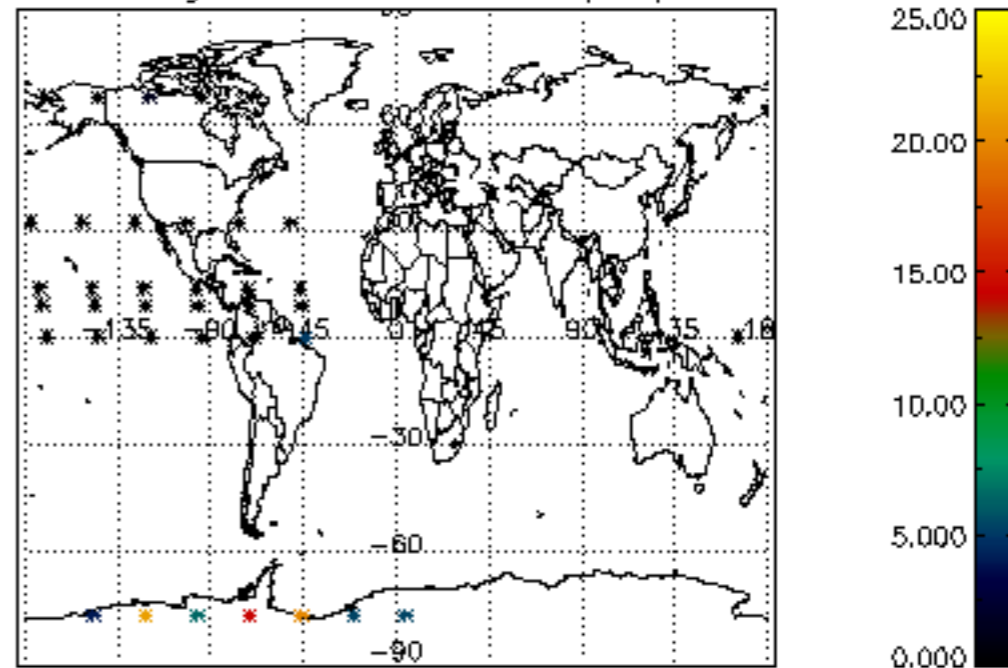
Percentage of datation errors per profile



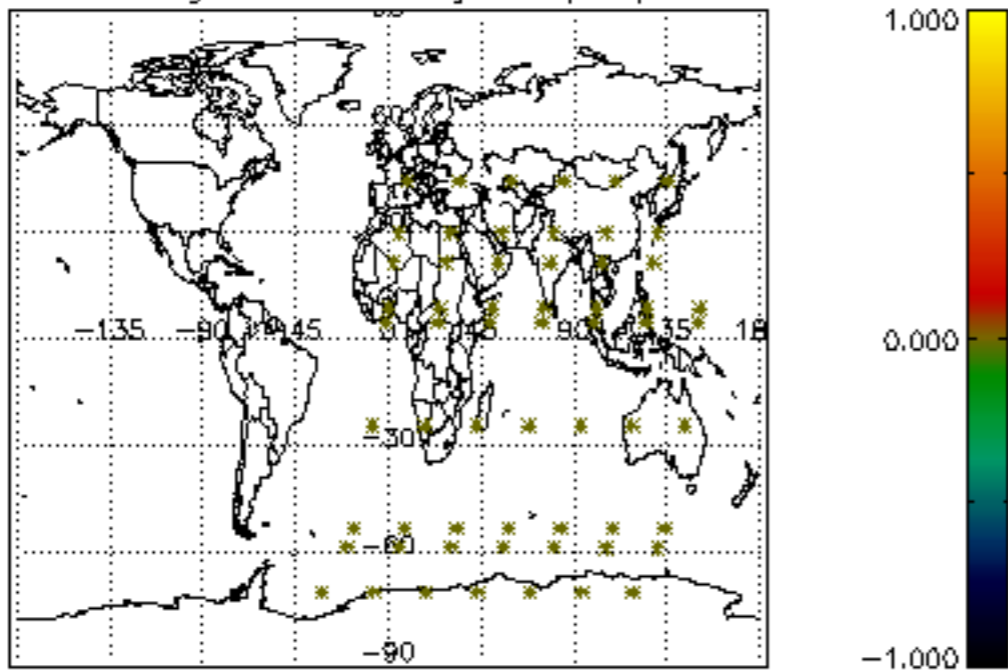
Percentage of star falling outside central band per profile



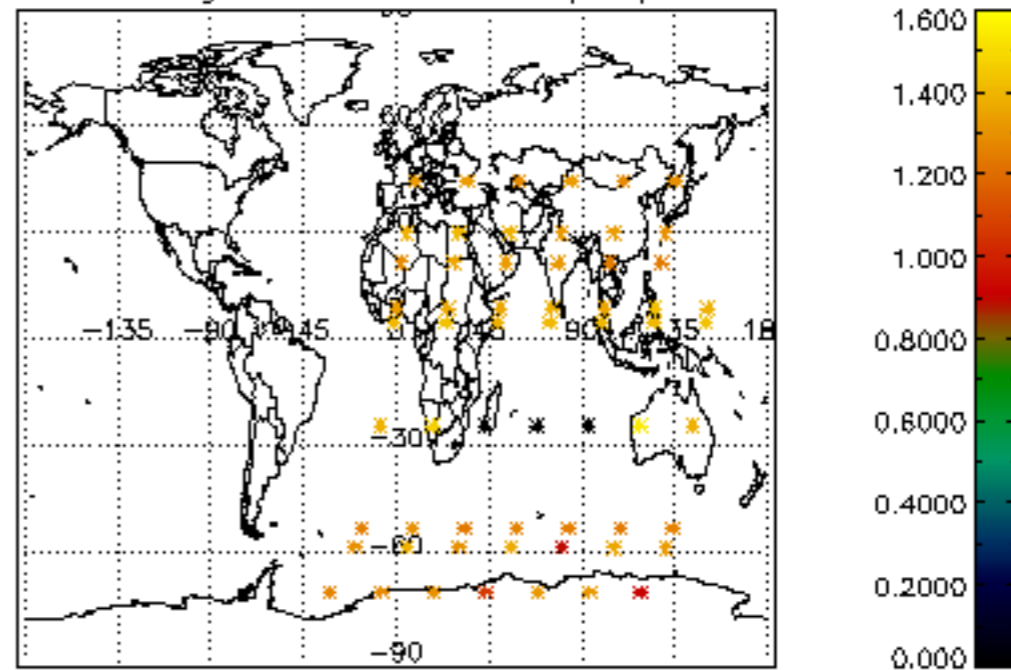
Percentage of saturation errors per profile



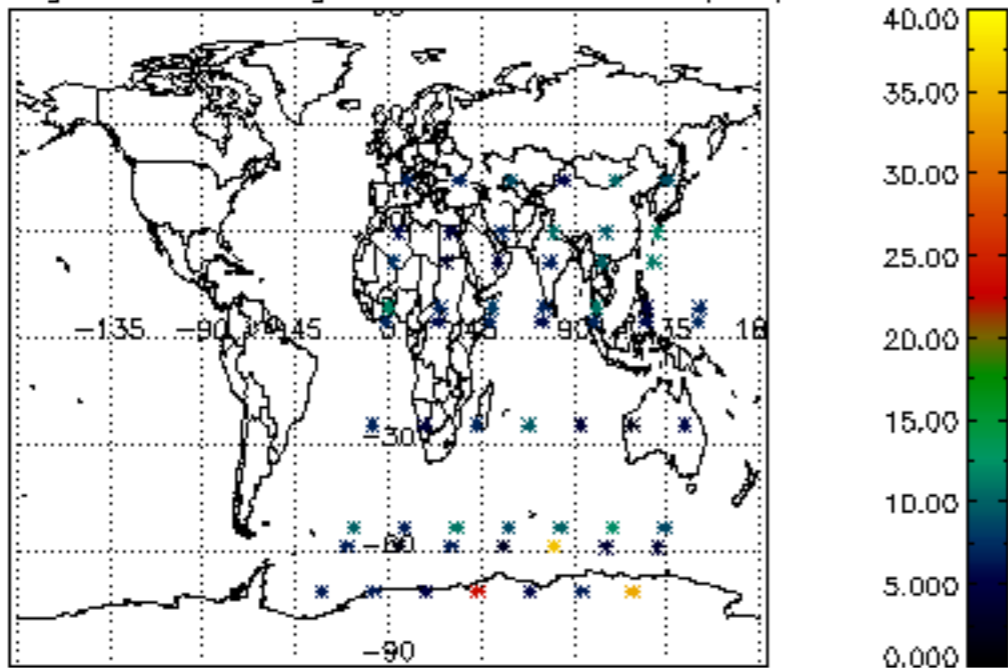
Percentage of cosmic ray hits per profile



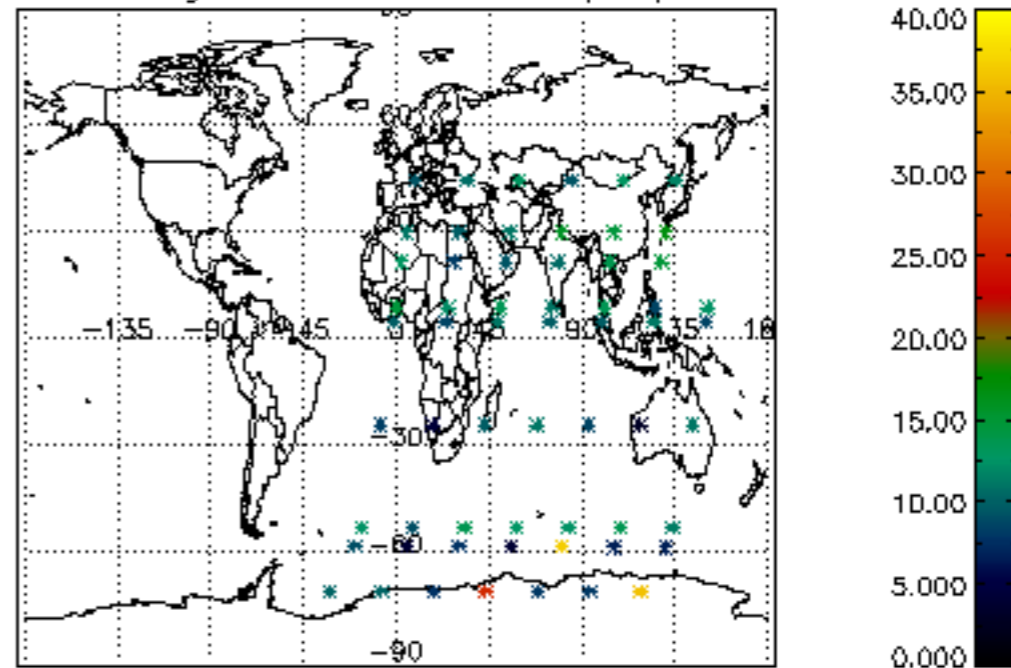
Percentage of datation errors per profile

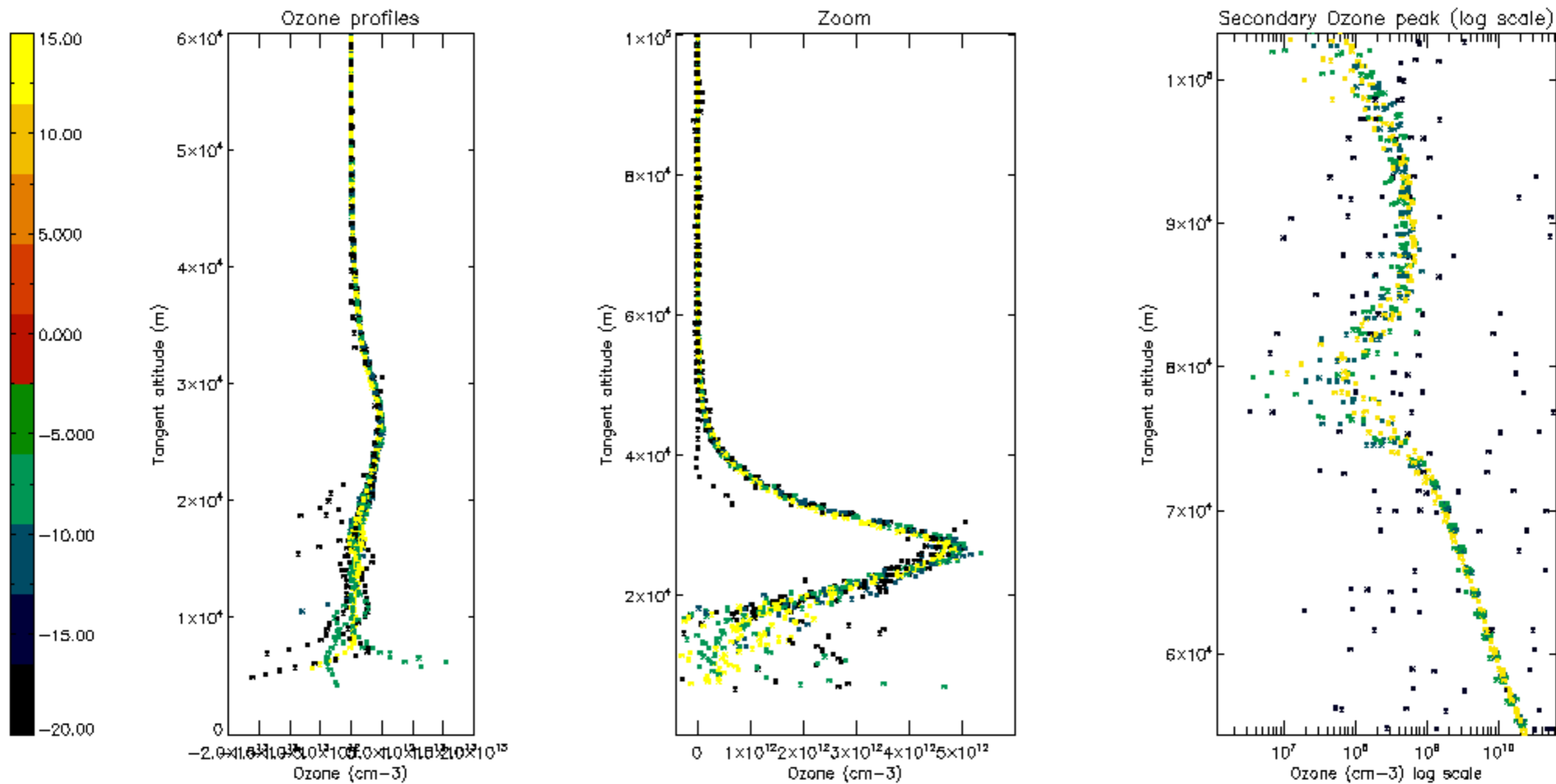


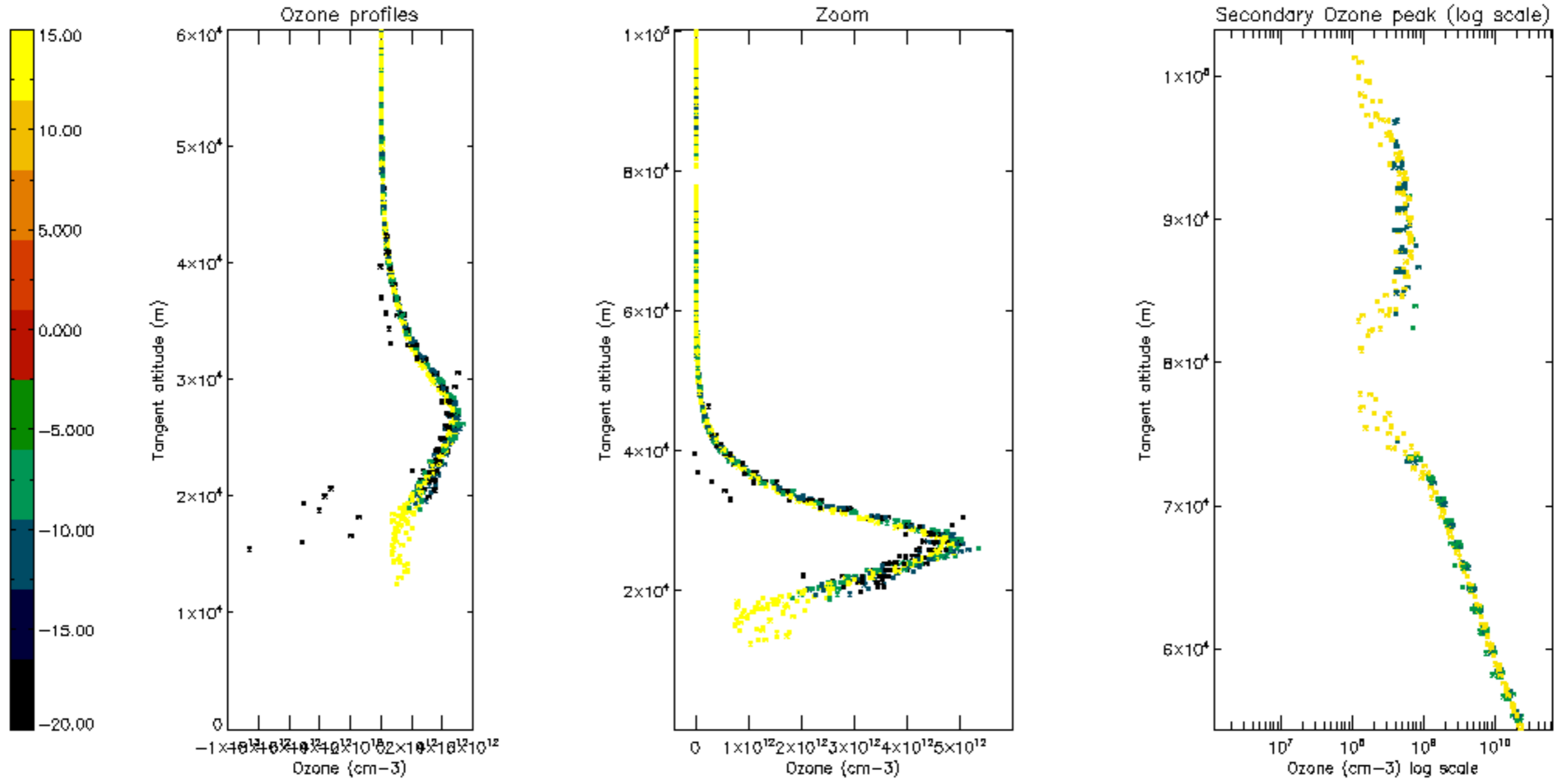
Percentage of star falling outside central band per profile

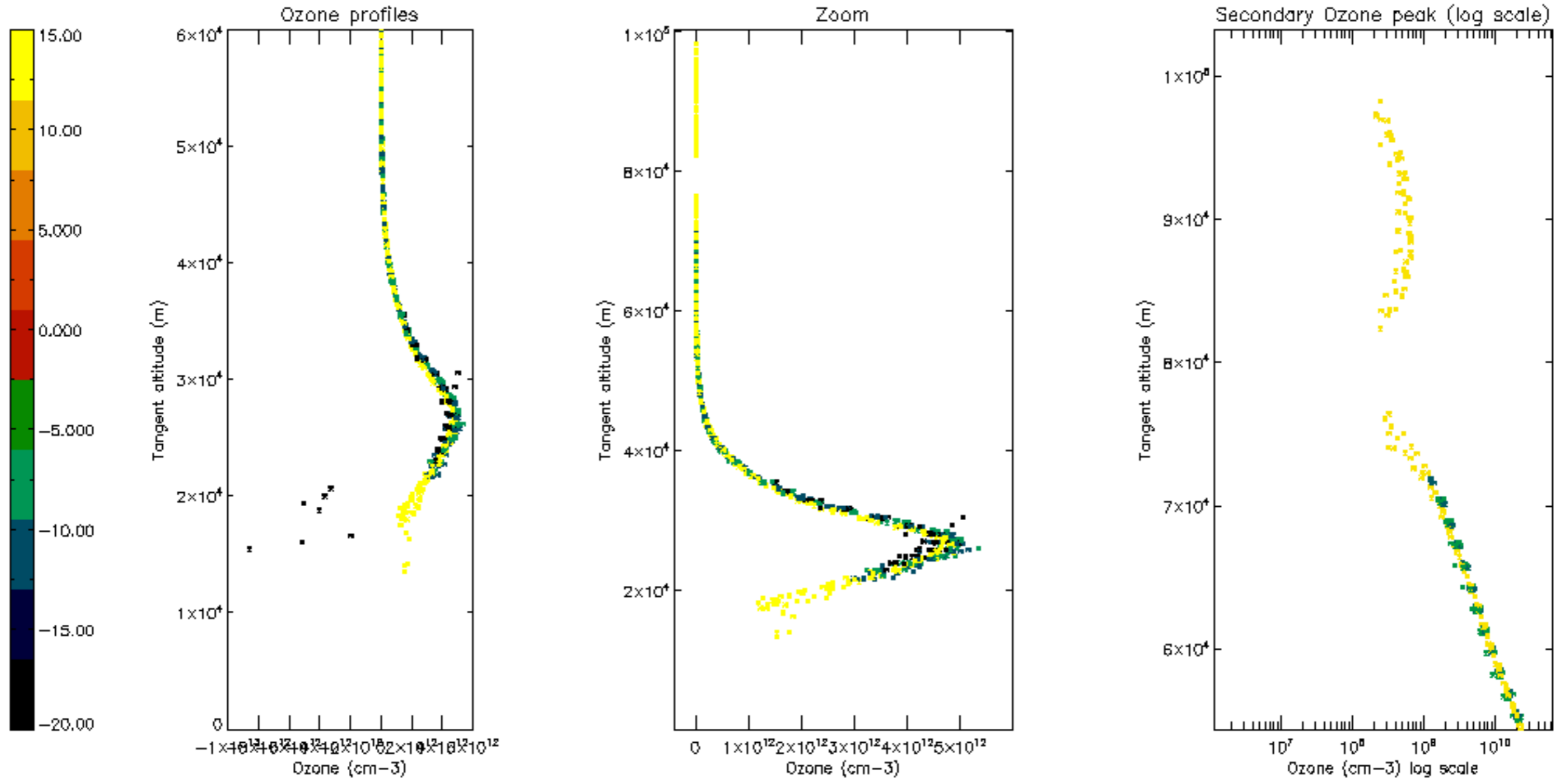


Percentage of saturation errors per profile

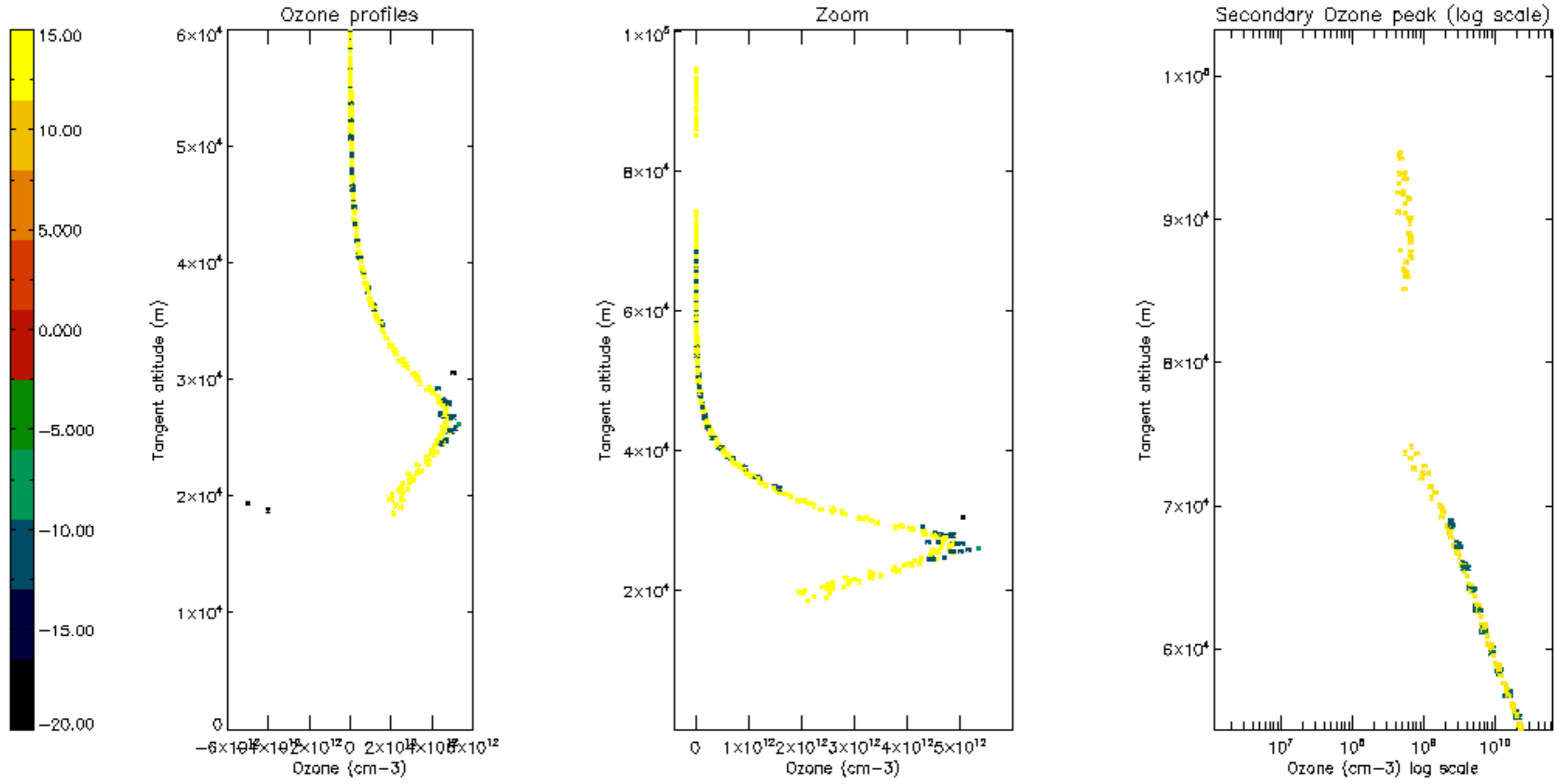


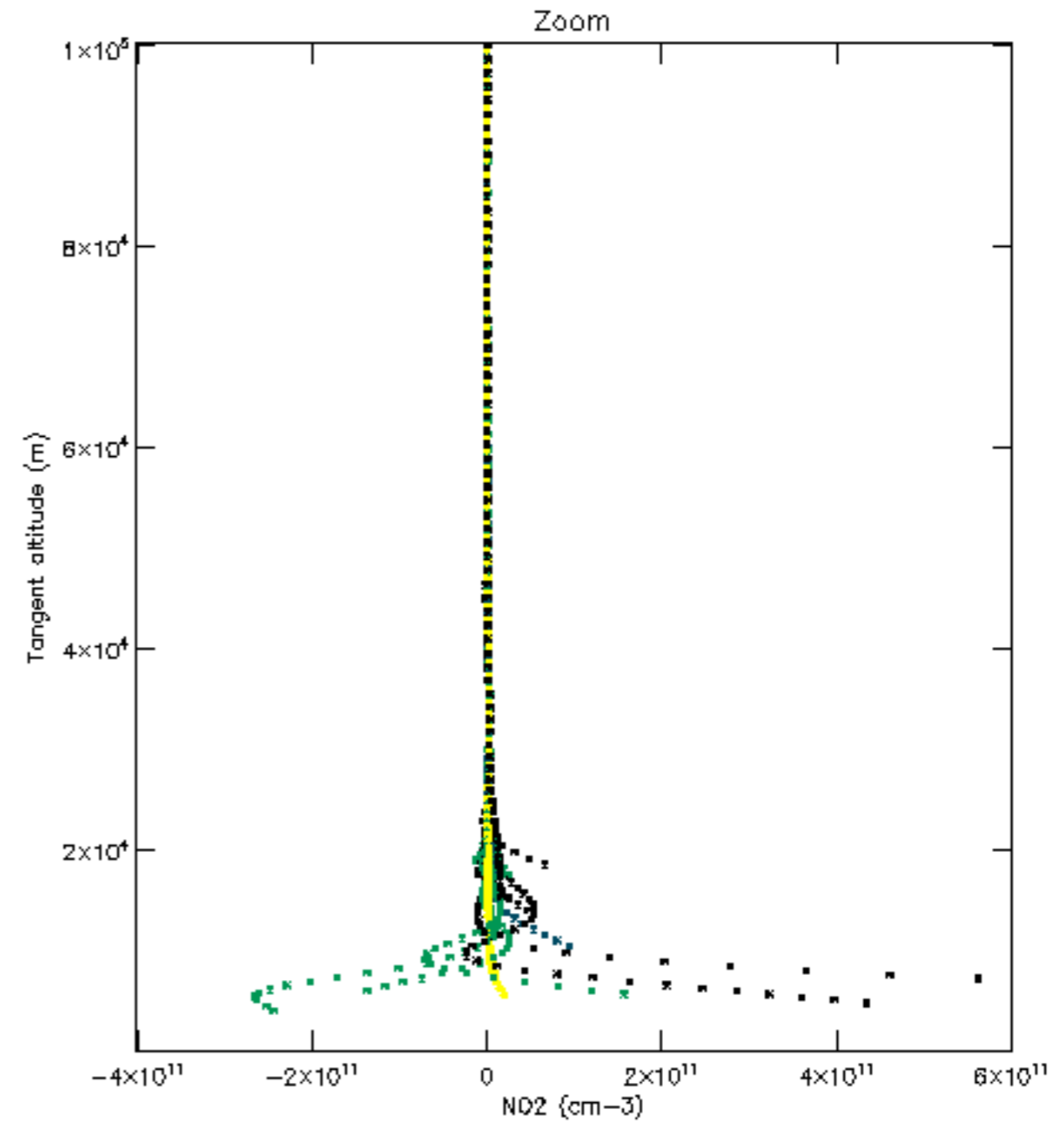
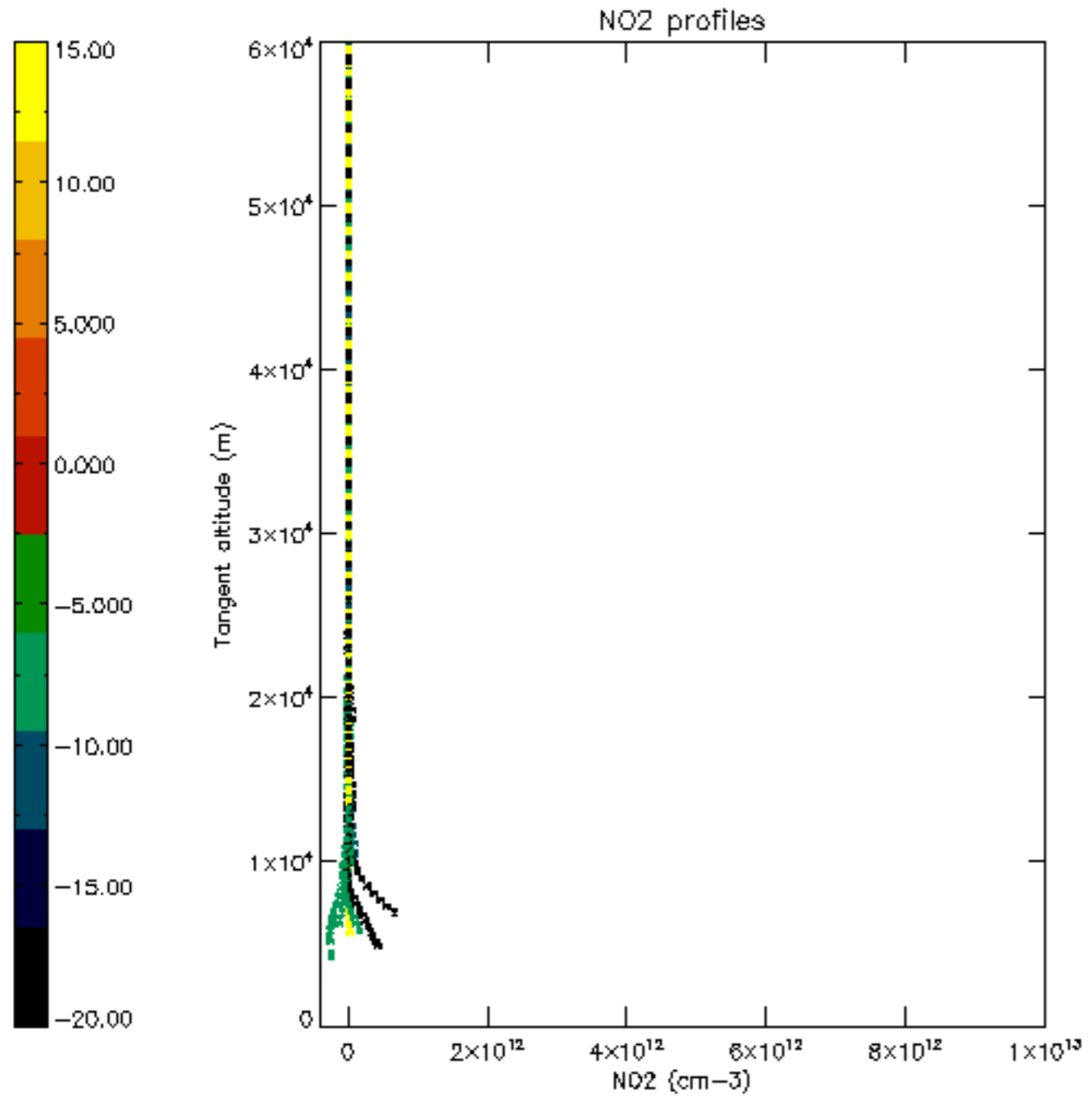


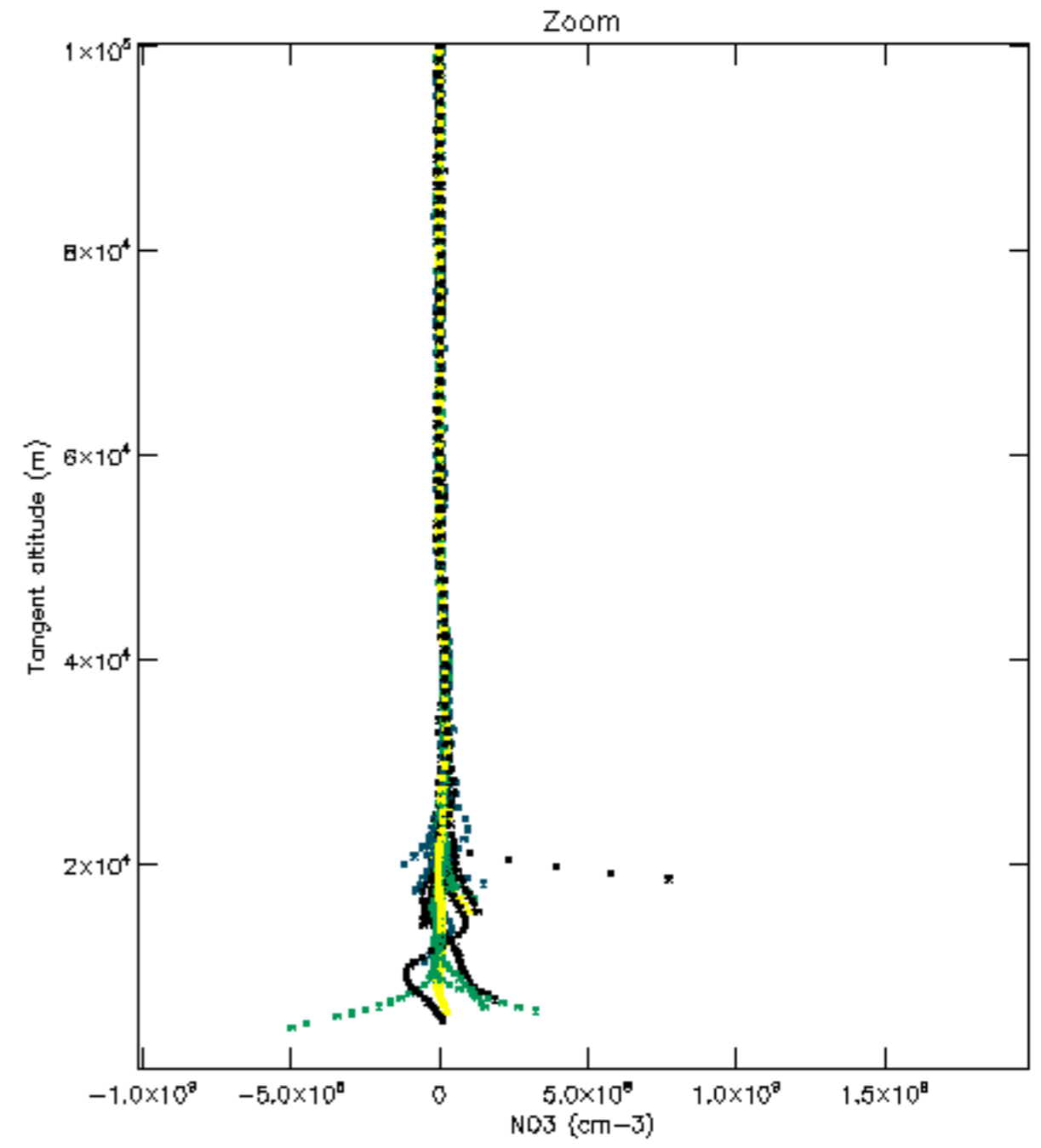
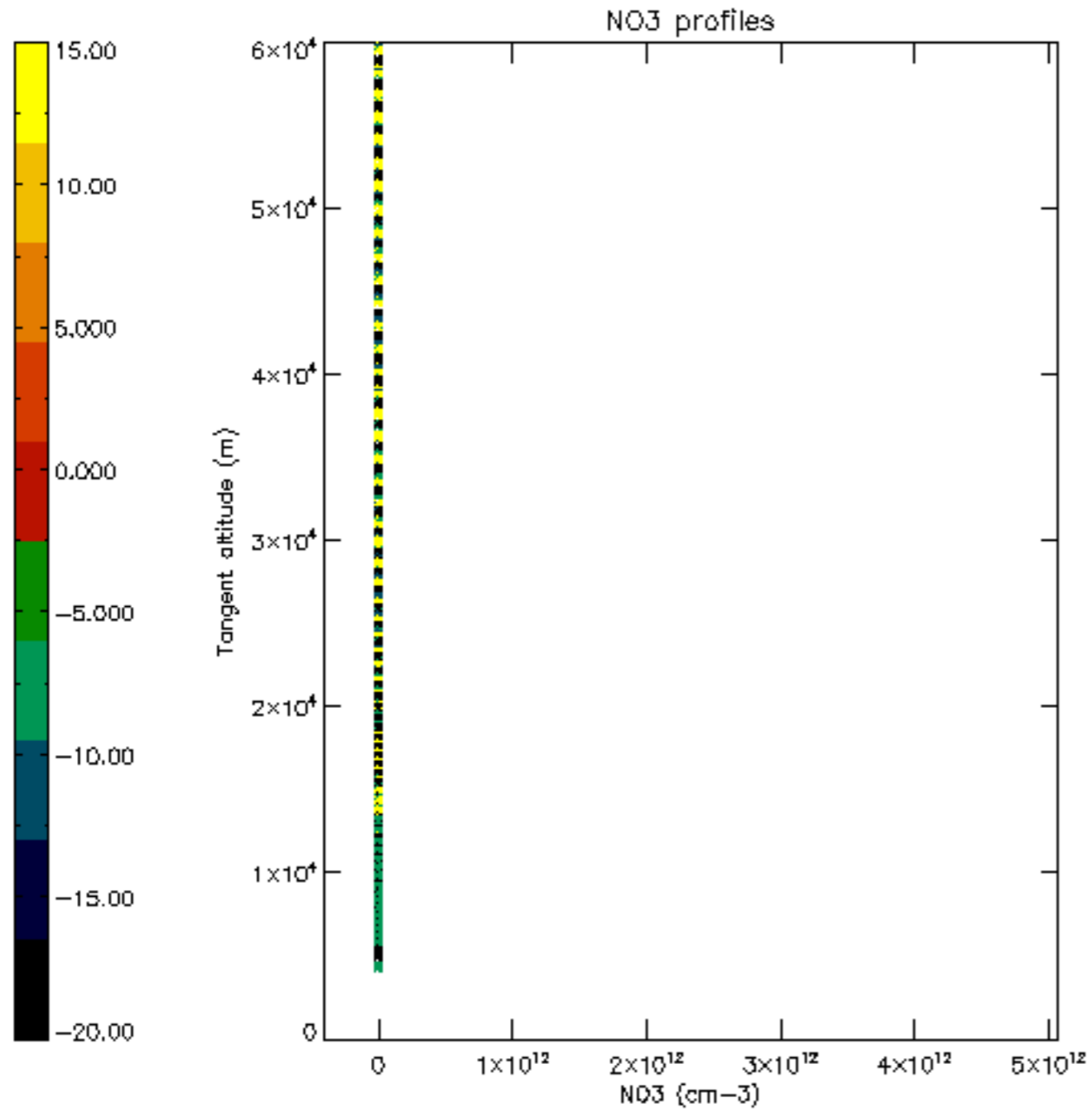


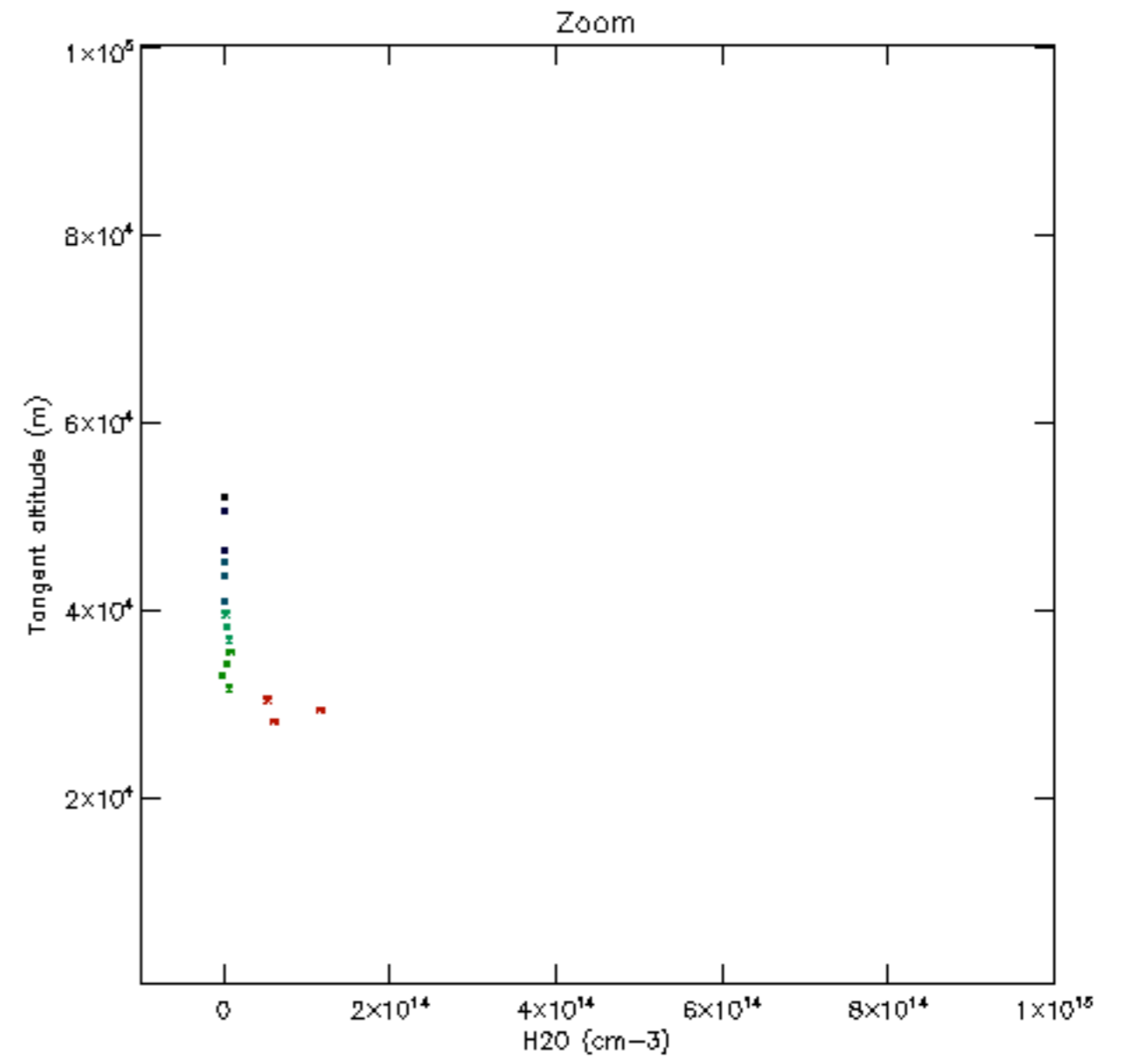
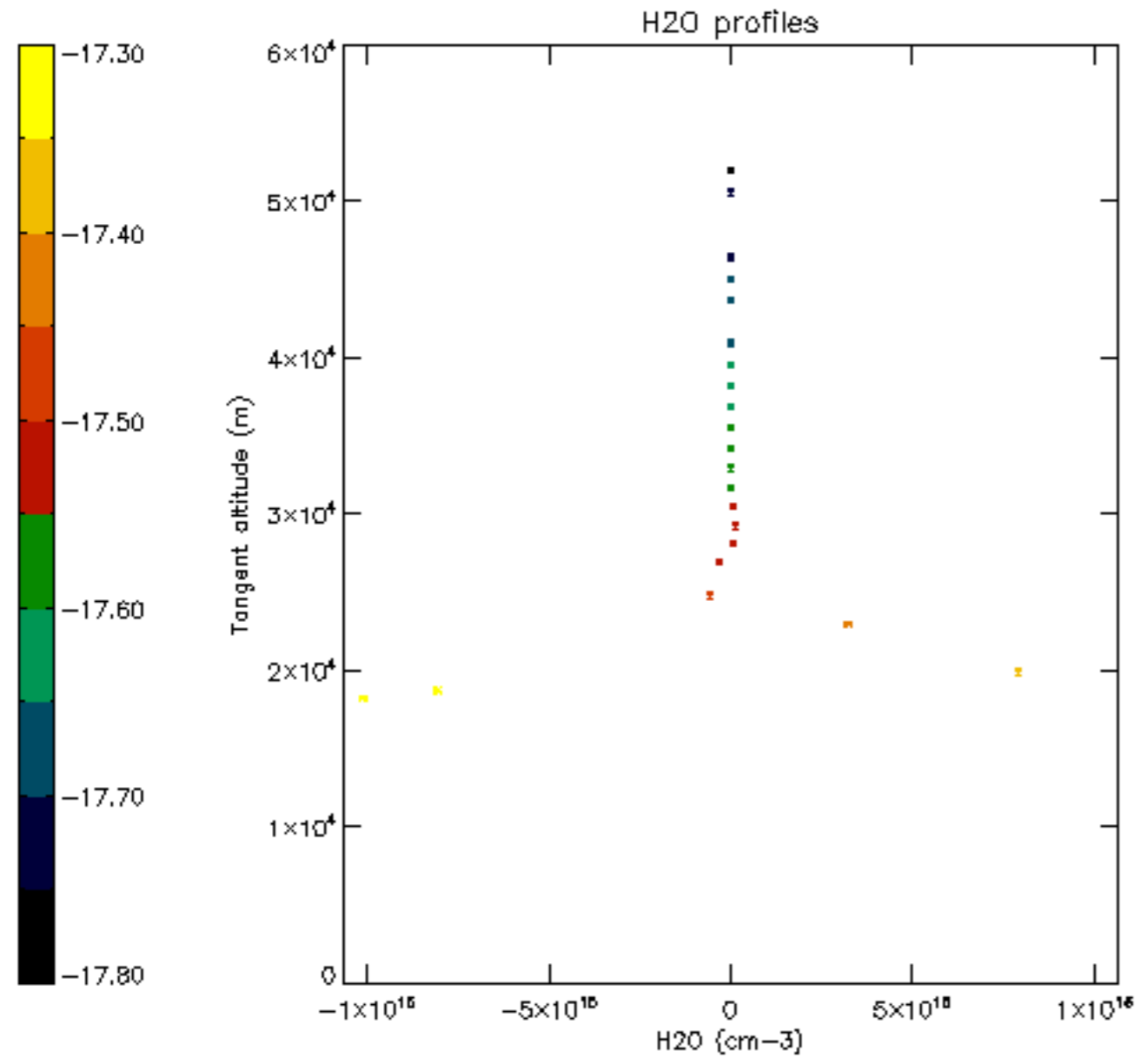


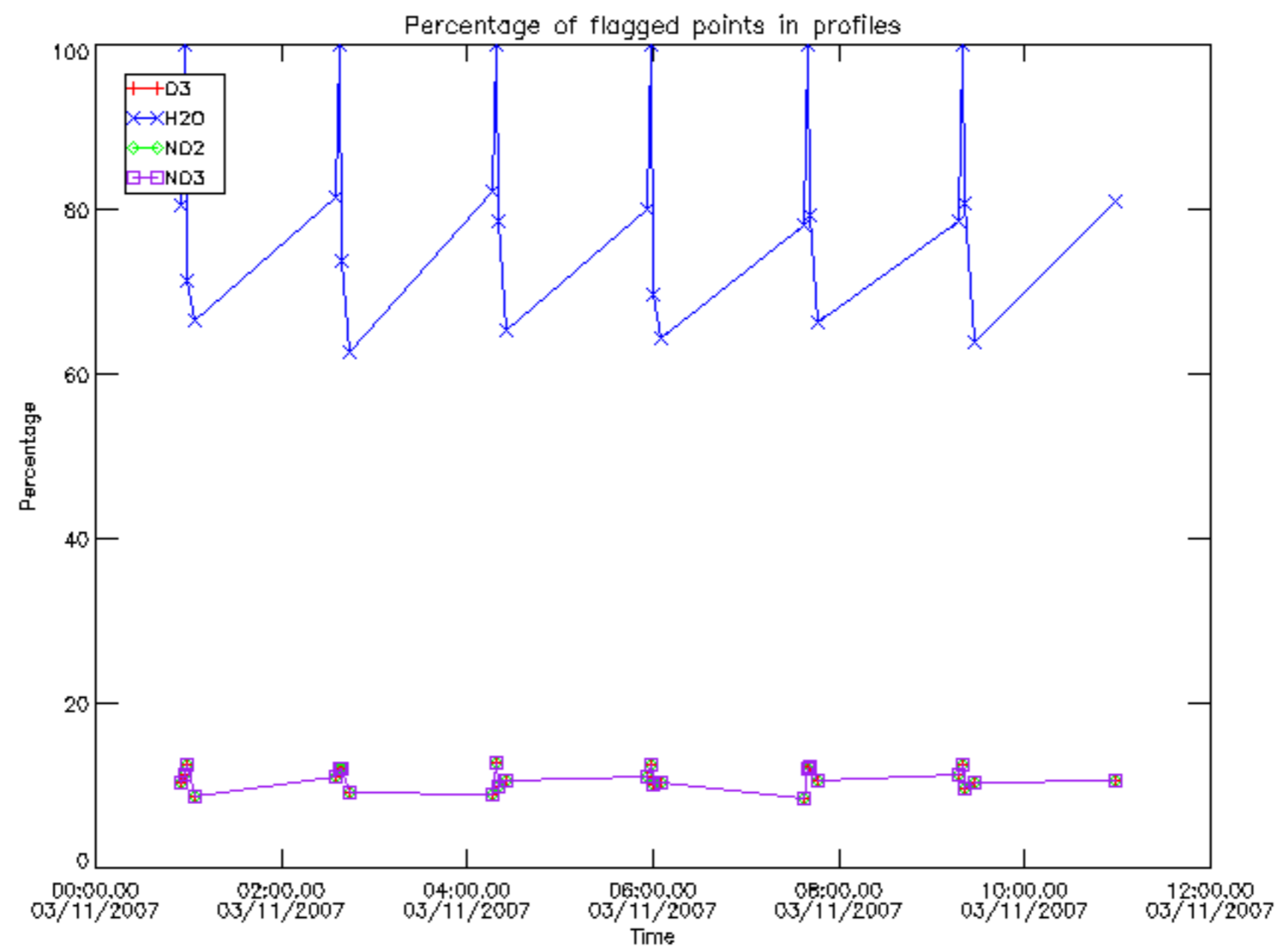






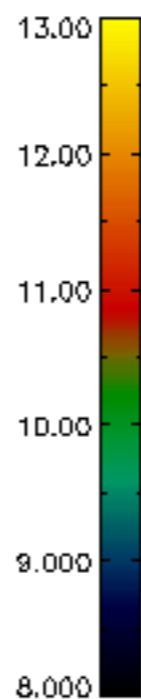
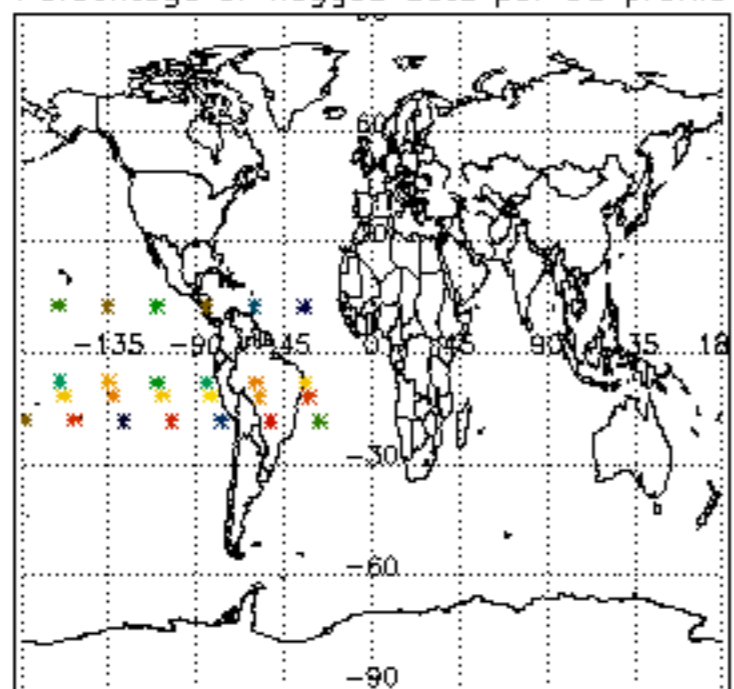




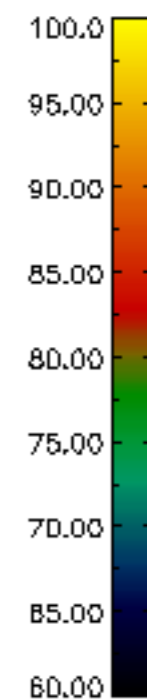
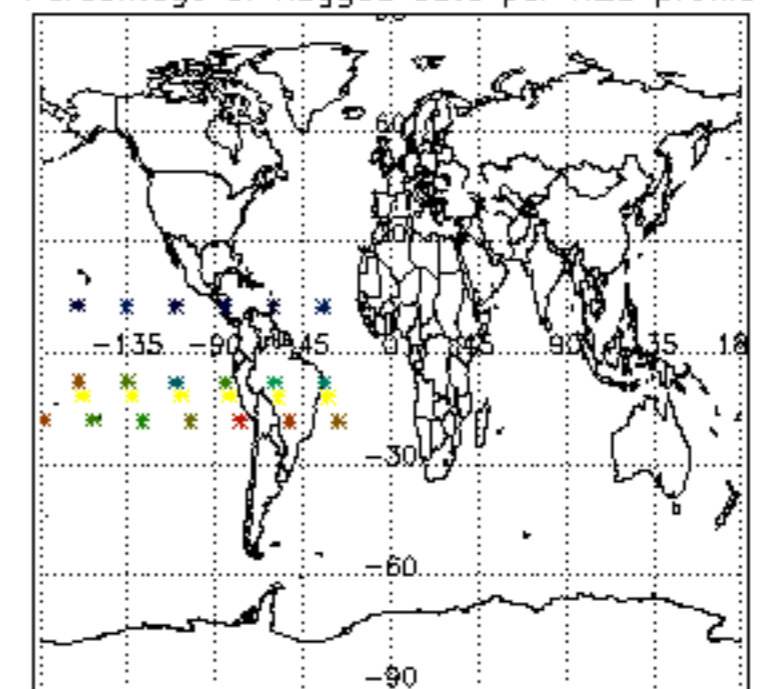




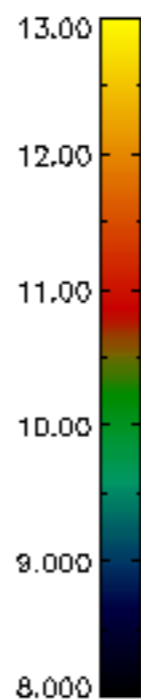
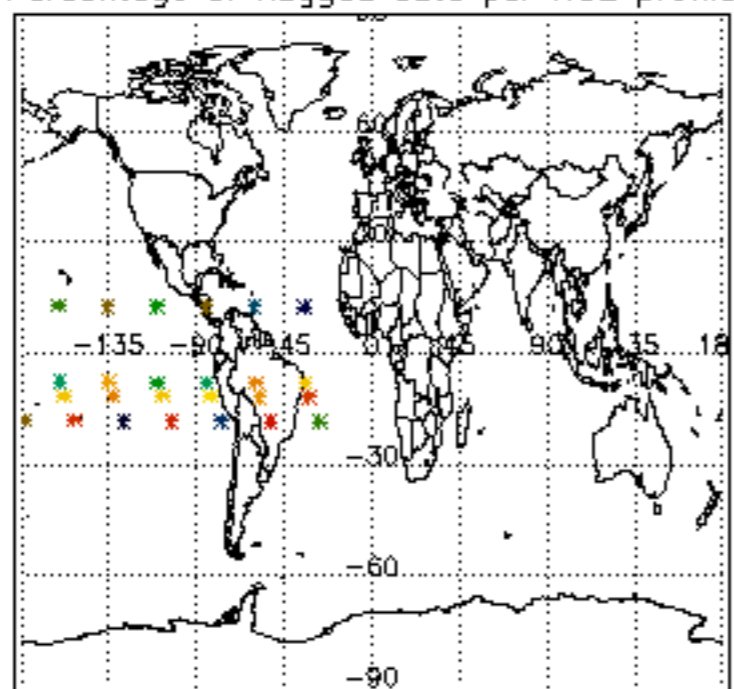
Percentage of flagged data per D3 profile



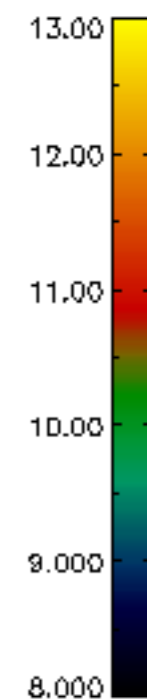
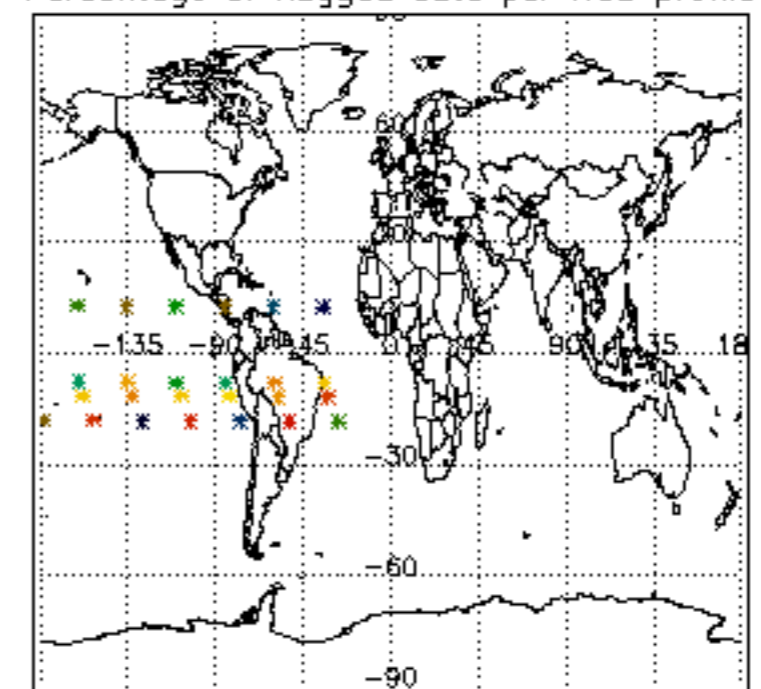
Percentage of flagged data per H2O profile

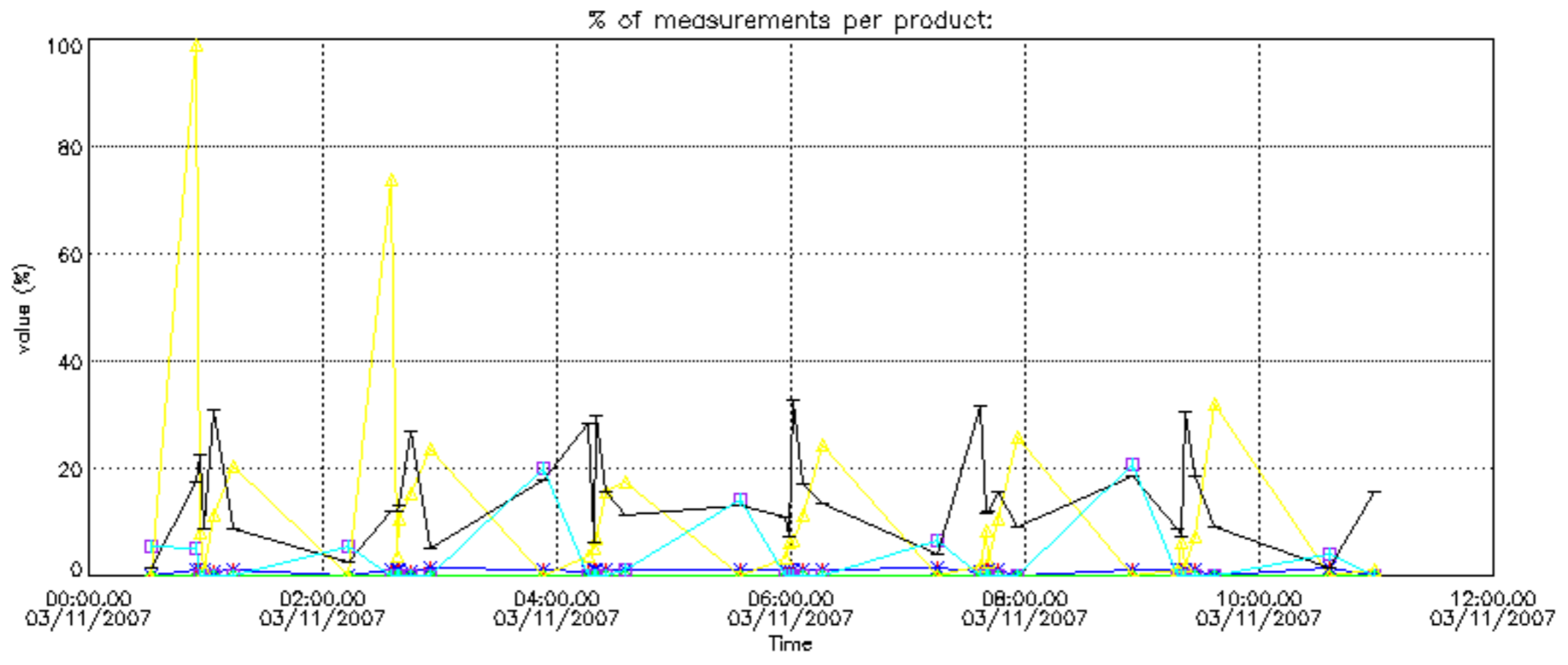


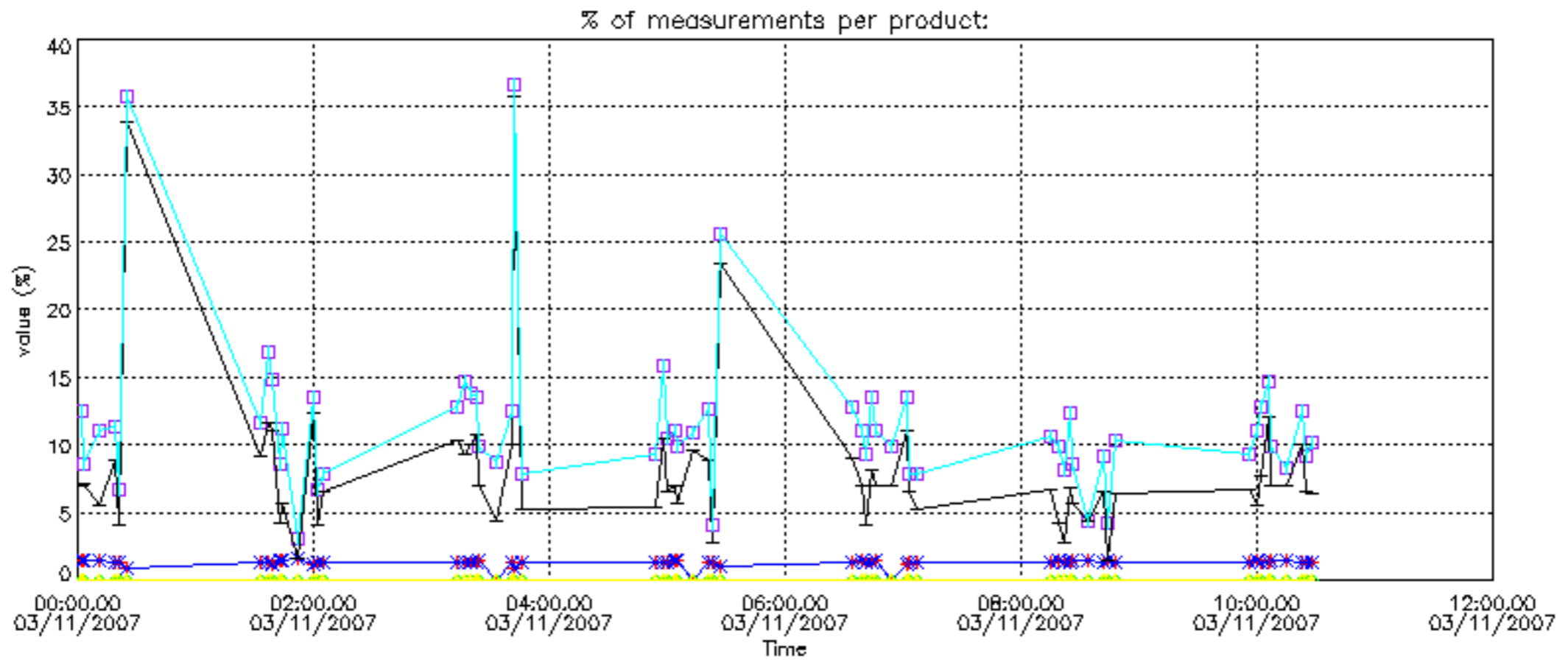
Percentage of flagged data per NO2 profile



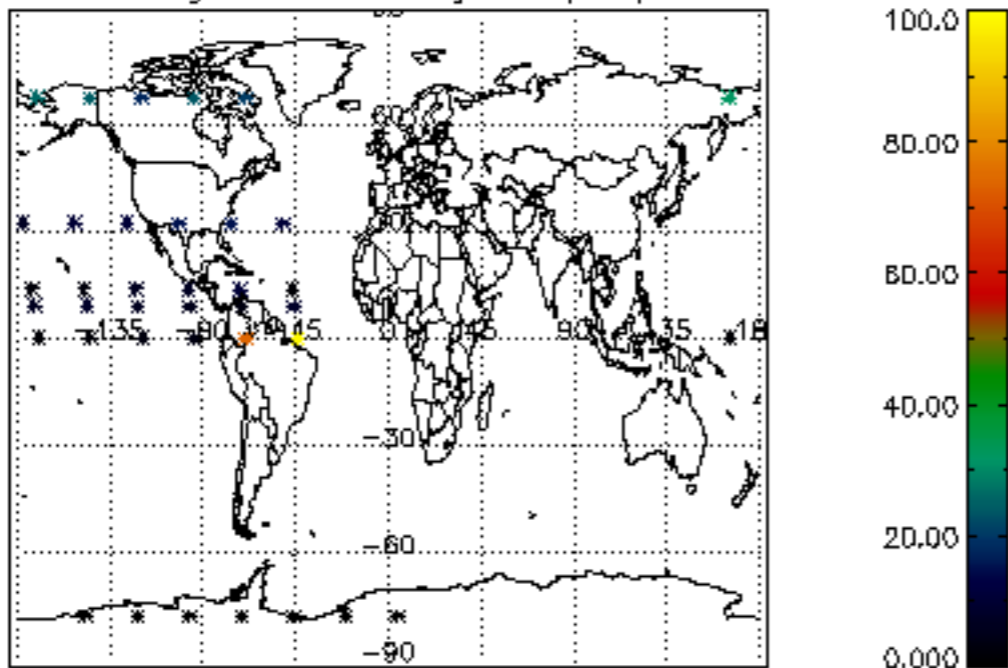
Percentage of flagged data per NO3 profile



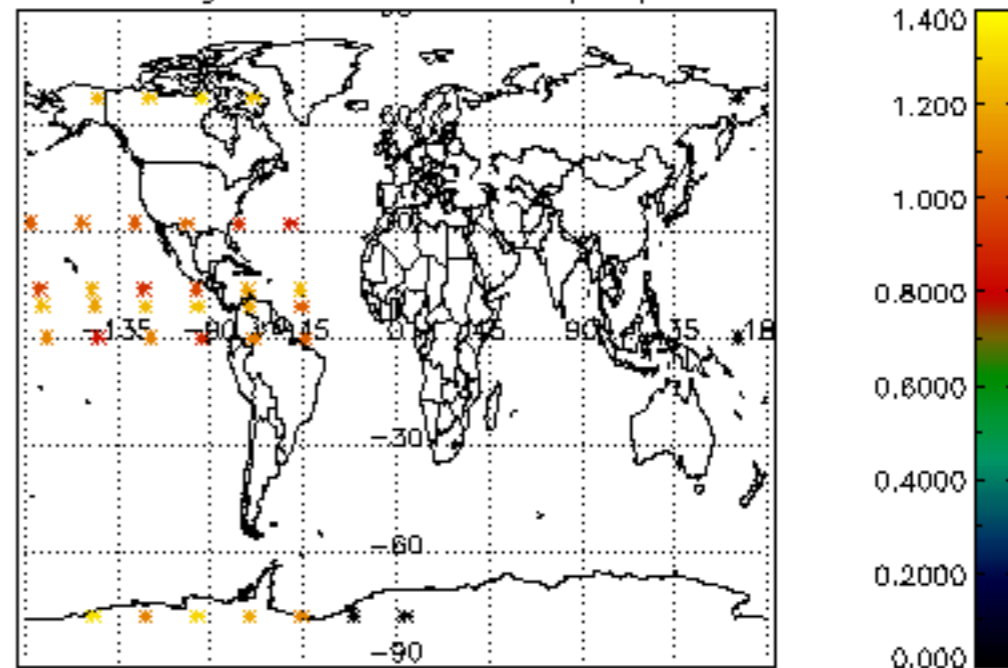




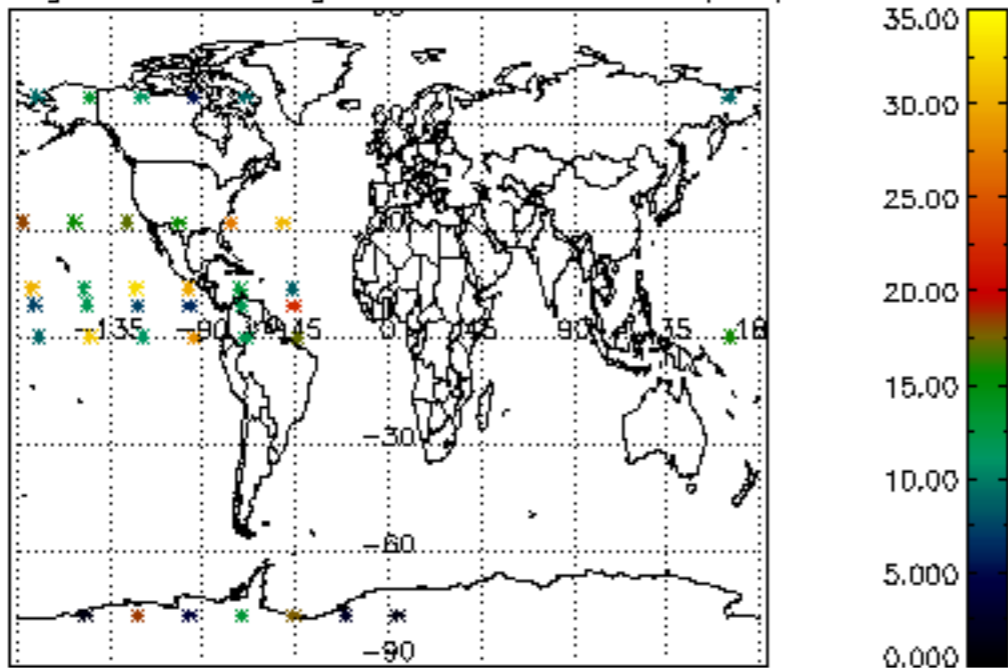
Percentage of cosmic ray hits per profile



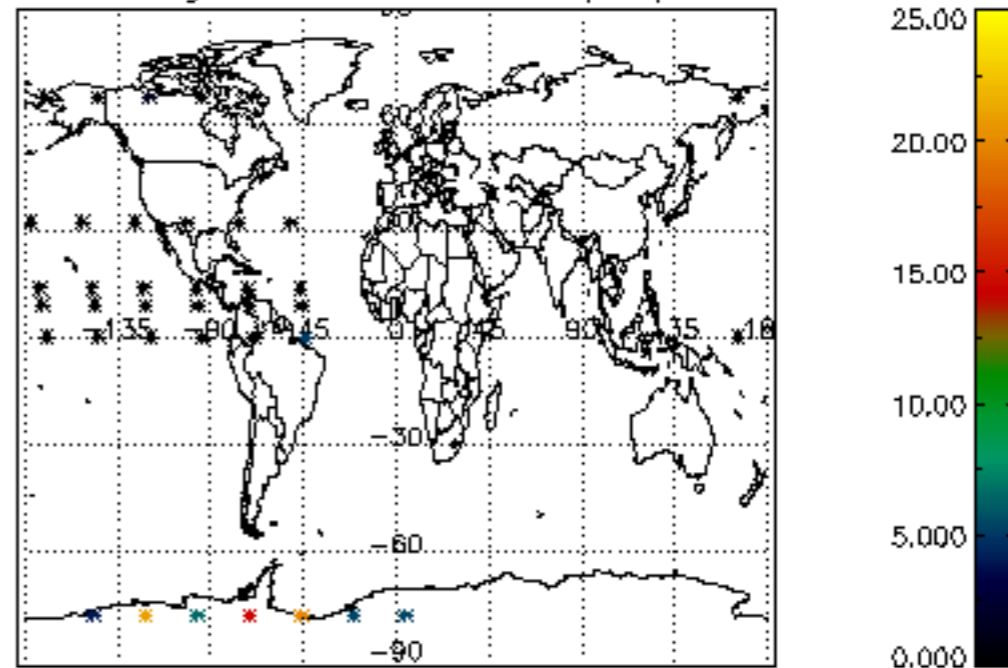
Percentage of datation errors per profile



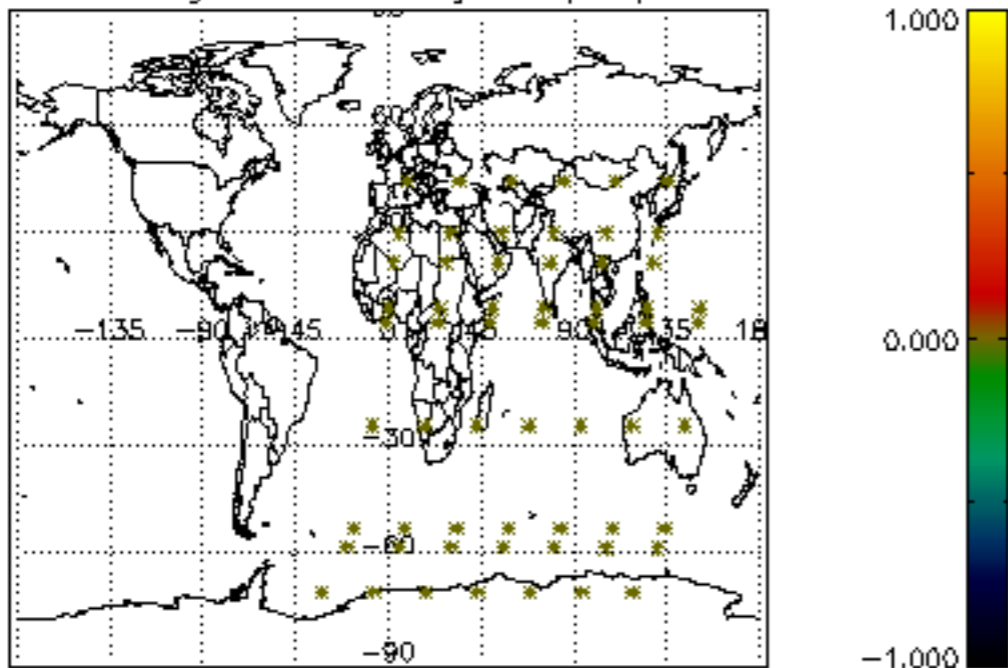
Percentage of star falling outside central band per profile



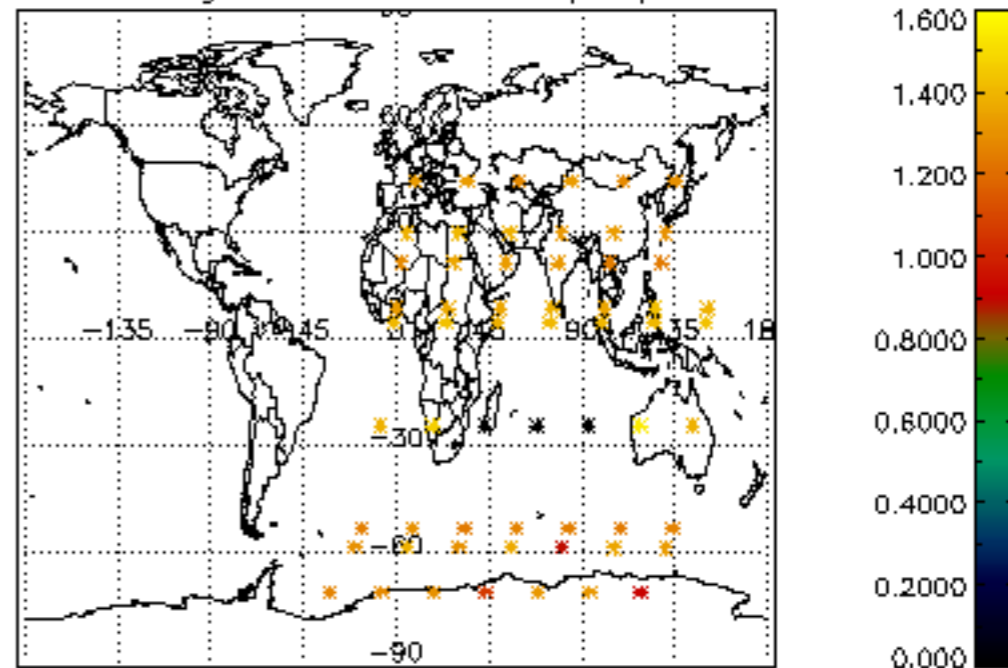
Percentage of saturation errors per profile



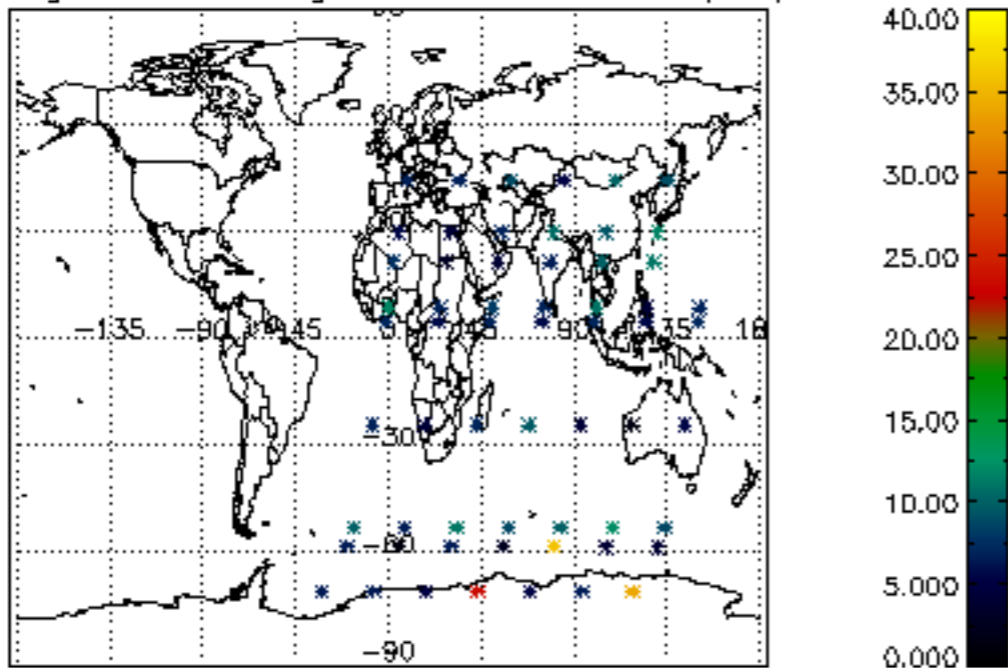
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

