

# 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 06:16:18
Data source version	GOMOS/6.01
Start time of products	29-09-2007 (29SEP2007 00:00:00)
Stop time of products	30-09-2007 (30SEP2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	109
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__2PRFIN20070929_000409_000000362062_00059_29171_8711.N1	29-SEP-2007 00:04:09	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	29171	No
2	GOM_NL__2PRFIN20070929_001125_000000352062_00059_29171_8712.N1	29-SEP-2007 00:11:25	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29171	No
3	GOM_NL__2PRFIN20070929_001318_000000342062_00059_29171_8713.N1	29-SEP-2007 00:13:18	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	29171	No
4	GOM_NL__2PRFIN20070929_001917_000000522062_00059_29171_8714.N1	29-SEP-2007 00:19:17	Bright	52.000	36	50Alp UMa	1.8000	6300.0	104	29171	No
5	GOM_NL__2PRFIN20070929_002047_000000322062_00059_29171_8715.N1	29-SEP-2007 00:20:47	Bright	32.000	82	48Bet UMa	2.3650	10600.	64	29171	No
6	GOM_NL__2PRFIN20070929_002358_000000332062_00059_29171_8716.N1	29-SEP-2007 00:23:58	Bright	33.000	174	52Psi UMa	3.0040	4400.0	66	29171	No
7	GOM_NL__2PRFIN20070929_003037_000000302062_00059_29171_8717.N1	29-SEP-2007 00:30:37	Bright	30.000	166	17Eps Leo	2.9800	6000.0	60	29171	No
8	GOM_NL__2PRFIN20070929_004004_000000482062_00059_29171_8718.N1	29-SEP-2007 00:40:04	Twilight	48.000	48	30Alp Hya	1.9770	4100.0	96	29171	No
9	GOM_NL__2PRFIN20070929_004945_000000452062_00059_29171_8719.N1	29-SEP-2007 00:49:45	Dark	45.000	65	Lam Vel	2.2040	4400.0	90	29171	No
10	GOM_NL__2PRFIN20070929_005303_000000382062_00059_29171_8720.N1	29-SEP-2007 00:53:03	Dark	38.000	46	Del Vel	1.9540	10600.	76	29171	No
11	GOM_NL__2PRFIN20070929_005438_000000402062_00059_29171_8721.N1	29-SEP-2007 00:54:38	Dark	39.500	41	Eps Car	1.8600	4100.0	79	29171	No
12	GOM_NL__2PRFIN20070929_010650_000000382062_00060_29172_8713.N1	29-SEP-2007 01:06:50	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	29172	No
13	GOM_NL__2PRFIN20070929_011827_000000442062_00060_29172_8714.N1	29-SEP-2007 01:18:27	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	29172	No
14	GOM_NL__2PRFIN20070929_013059_000000272062_00060_29172_8715.N1	29-SEP-2007 01:30:59	Bright	27.000	90	54Alp Peg	2.4870	11000.	54	29172	No
15	GOM_NL__2PRFIN20070929_013515_000000362062_00060_29172_8716.N1	29-SEP-2007 01:35:15	Bright	36.000	164	44Eta Peg	2.9480	5400.0	72	29172	No
16	GOM_NL__2PRFIN20070929_014445_000000362062_00060_29172_8717.N1	29-SEP-2007 01:44:45	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	29172	No
17	GOM_NL__2PRFIN20070929_015201_000000362062_00060_29172_8718.N1	29-SEP-2007 01:52:01	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29172	No
18	GOM_NL__2PRFIN20070929_015354_000000372062_00060_29172_8719.N1	29-SEP-2007 01:53:54	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	29172	No
19	GOM_NL__2PRFIN20070929_015953_000000372062_00060_29172_8720.N1	29-SEP-2007 01:59:53	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	29172	No
20	GOM_NL__2PRFIN20070929_020123_000000442062_00060_29172_8721.N1	29-SEP-2007 02:01:23	Bright	43.500	82	48Bet UMa	2.3650	10600.	87	29172	No
21	GOM_NL__2PRFIN20070929_020434_000000522062_00060_29172_8722.N1	29-SEP-2007 02:04:34	Bright	51.500	174	52Psi UMa	3.0040	4400.0	103	29172	No
22	GOM_NL__2PRFIN20070929_022040_000000422062_00060_29172_8723.N1	29-SEP-2007 02:20:40	Twilight	42.000	48	30Alp Hya	1.9770	4100.0	84	29172	No
23	GOM_NL__2PRFIN20070929_023021_000000512062_00060_29172_8724.N1	29-SEP-2007 02:30:21	Dark	50.500	65	Lam Vel	2.2040	4400.0	101	29172	No
24	GOM_NL__2PRFIN20070929_023339_000000372062_00060_29172_8725.N1	29-SEP-2007 02:33:39	Dark	37.000	46	Del Vel	1.9540	10600.	74	29172	No
25	GOM_NL__2PRFIN20070929_023515_000000462062_00060_29172_8726.N1	29-SEP-2007 02:35:15	Dark	46.000	41	Eps Car	1.8600	4100.0	92	29172	No
26	GOM_NL__2PRFIN20070929_024726_000000392062_00061_29173_8727.N1	29-SEP-2007 02:47:26	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	29173	No
27	GOM_NL__2PRFIN20070929_025903_000000432062_00061_29173_8728.N1	29-SEP-2007 02:59:03	Straylight	42.500	18	24Alp PsA	1.1660	9700.0	85	29173	No
28	GOM_NL__2PRFIN20070929_031134_000000272062_00061_29173_8729.N1	29-SEP-2007 03:11:34	Bright	27.000	90	54Alp Peg	2.4870	11000.	54	29173	No
29	GOM_NL__2PRFIN20070929_031551_000000352062_00061_29173_8730.N1	29-SEP-2007 03:15:51	Bright	35.000	164	44Eta Peg	2.9480	5400.0	70	29173	No
30	GOM_NL__2PRFIN20070929_032521_000000342062_00061_29173_8731.N1	29-SEP-2007 03:25:21	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	29173	No
31	GOM_NL__2PRFIN20070929_033237_000000372062_00061_29173_8732.N1	29-SEP-2007 03:32:37	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	29173	No
32	GOM_NL__2PRFIN20070929_033430_000000372062_00061_29173_8733.N1	29-SEP-2007 03:34:30	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	29173	No
33	GOM_NL__2PRFIN20070929_034029_000000372062_00061_29173_8734.N1	29-SEP-2007 03:40:29	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	29173	No
34	GOM_NL__2PRFIN20070929_034159_000000352062_00061_29173_8735.N1	29-SEP-2007 03:41:59	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	29173	No
35	GOM_NL__2PRFIN20070929_034510_000000332062_00061_29173_8736.N1	29-SEP-2007 03:45:10	Bright	33.000	174	52Psi UMa	3.0040	4400.0	66	29173	No
36	GOM_NL__2PRFIN20070929_040117_000000442062_00061_29173_8737.N1	29-SEP-2007 04:01:17	Twilight	43.500	48	30Alp Hya	1.9770	4100.0	87	29173	No
37	GOM_NL__2PRFIN20070929_041058_000000412062_00061_29173_8738.N1	29-SEP-2007 04:10:58	Dark	41.000	65	Lam Vel	2.2040	4400.0	82	29173	No
38	GOM_NL__2PRFIN20070929_041416_000000422062_00061_29173_8739.N1	29-SEP-2007 04:14:16	Dark	41.500	46	Del Vel	1.9540	10600.	83	29173	No
39	GOM_NL__2PRFIN20070929_041551_000000412062_00061_29173_8740.N1	29-SEP-2007 04:15:51	Dark	40.500	41	Eps Car	1.8600	4100.0	81	29173	No
40	GOM_NL__2PRFIN20070929_042803_000000382062_00062_29174_8732.N1	29-SEP-2007 04:28:03	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	29174	No
41	GOM_NL__2PRFIN20070929_043939_000000382062_00062_29174_8733.N1	29-SEP-2007 04:39:39	Straylight	37.500	18	24Alp PsA	1.1660	9700.0	75	29174	No
42	GOM_NL__2PRFIN20070929_045210_000000372062_00062_29174_8734.N1	29-SEP-2007 04:52:10	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	29174	No

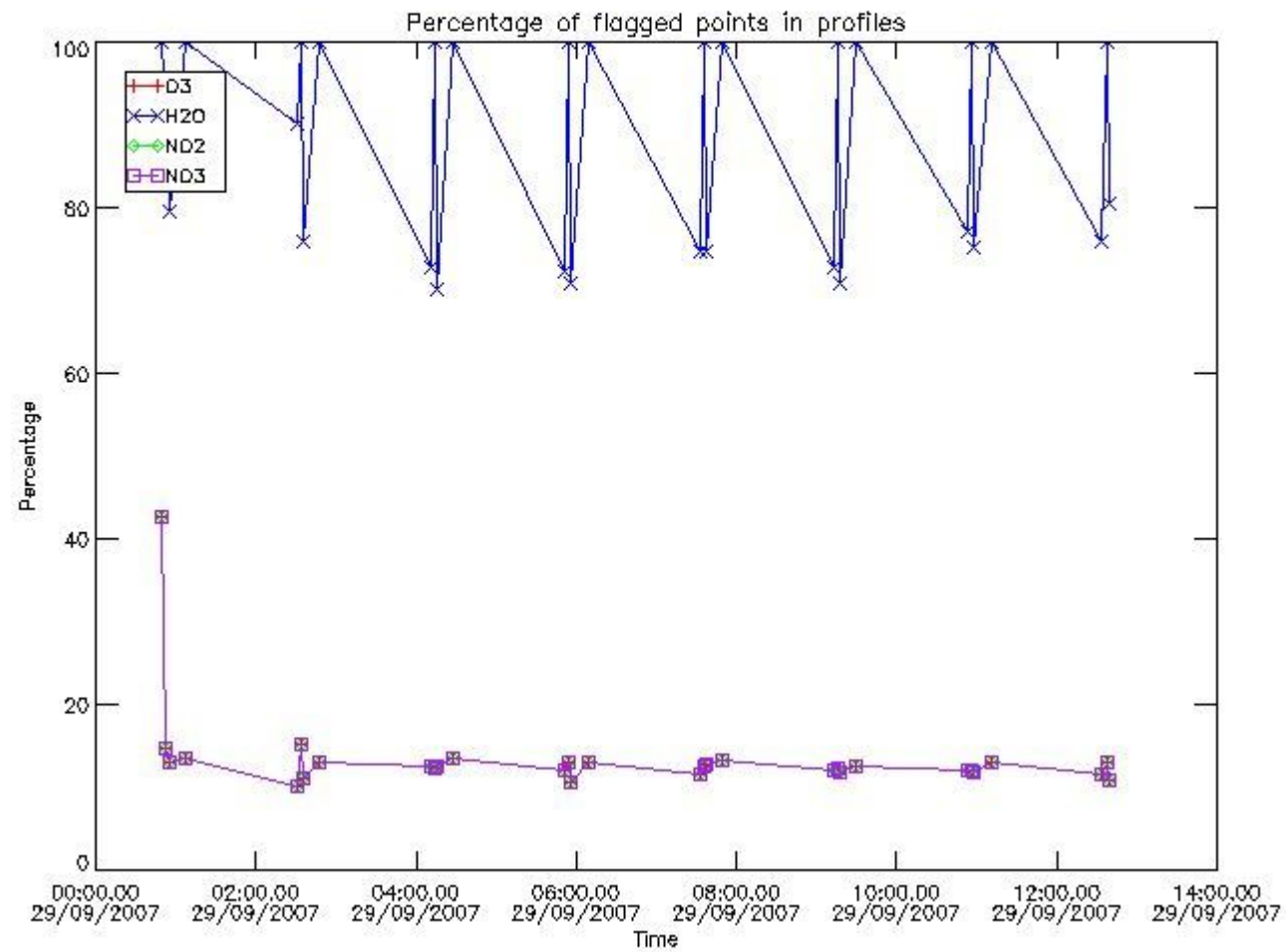
43	GOM_NL__2PRFIN20070929_045627_000000362062_00062_29174_8735.N1	29-SEP-2007 04:56:27	Bright	36.000	164	44Eta Peg	2.9480	5400.0	72	29174	No
44	GOM_NL__2PRFIN20070929_050557_000000362062_00062_29174_8736.N1	29-SEP-2007 05:05:57	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	29174	No
45	GOM_NL__2PRFIN20070929_051313_000000362062_00062_29174_8737.N1	29-SEP-2007 05:13:13	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29174	No
46	GOM_NL__2PRFIN20070929_051506_000000362062_00062_29174_8738.N1	29-SEP-2007 05:15:06	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	29174	No
47	GOM_NL__2PRFIN20070929_052105_000000372062_00062_29174_8739.N1	29-SEP-2007 05:21:05	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29174	No
48	GOM_NL__2PRFIN20070929_052235_000000522062_00062_29174_8740.N1	29-SEP-2007 05:22:35	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	29174	No
49	GOM_NL__2PRFIN20070929_052547_000000322062_00062_29174_8741.N1	29-SEP-2007 05:25:47	Bright	32.000	174	52Psi UMa	3.0040	4400.0	64	29174	No
50	GOM_NL__2PRFIN20070929_054153_000000442062_00062_29174_8742.N1	29-SEP-2007 05:41:53	Twilight	43.500	48	30Alp Hya	1.9770	4100.0	87	29174	No
51	GOM_NL__2PRFIN20070929_055134_000000422062_00062_29174_8743.N1	29-SEP-2007 05:51:34	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	29174	No
52	GOM_NL__2PRFIN20070929_055452_000000402062_00062_29174_8744.N1	29-SEP-2007 05:54:52	Dark	39.500	46	Del Vel	1.9540	10600.	79	29174	No
53	GOM_NL__2PRFIN20070929_055627_000000492062_00062_29174_8745.N1	29-SEP-2007 05:56:27	Dark	48.500	41	Eps Car	1.8600	4100.0	97	29174	No
54	GOM_NL__2PRFIN20070929_060839_000000392062_00063_29175_8766.N1	29-SEP-2007 06:08:39	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	29175	No
55	GOM_NL__2PRFIN20070929_062015_000000392062_00063_29175_8767.N1	29-SEP-2007 06:20:15	Straylight	38.500	18	24Alp PsA	1.1660	9700.0	77	29175	No
56	GOM_NL__2PRFIN20070929_063246_000000362062_00063_29175_8768.N1	29-SEP-2007 06:32:46	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	29175	No
57	GOM_NL__2PRFIN20070929_063703_000000352062_00063_29175_8769.N1	29-SEP-2007 06:37:03	Bright	34.500	164	44Eta Peg	2.9480	5400.0	69	29175	No
58	GOM_NL__2PRFIN20070929_064634_000000362062_00063_29175_8770.N1	29-SEP-2007 06:46:34	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	29175	No
59	GOM_NL__2PRFIN20070929_065349_000000342062_00063_29175_8771.N1	29-SEP-2007 06:53:49	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	29175	No
60	GOM_NL__2PRFIN20070929_065543_000000362062_00063_29175_8772.N1	29-SEP-2007 06:55:43	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	29175	No
61	GOM_NL__2PRFIN20070929_070141_000000372062_00063_29175_8773.N1	29-SEP-2007 07:01:41	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29175	No
62	GOM_NL__2PRFIN20070929_070311_000000522062_00063_29175_8774.N1	29-SEP-2007 07:03:11	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	29175	No
63	GOM_NL__2PRFIN20070929_070623_000000342062_00063_29175_8775.N1	29-SEP-2007 07:06:23	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	29175	No
64	GOM_NL__2PRFIN20070929_072229_000000452062_00063_29175_8776.N1	29-SEP-2007 07:22:29	Twilight	45.000	48	30Alp Hya	1.9770	4100.0	90	29175	No
65	GOM_NL__2PRFIN20070929_073210_000000442062_00063_29175_8777.N1	29-SEP-2007 07:32:10	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	29175	No
66	GOM_NL__2PRFIN20070929_073528_000000412062_00063_29175_8778.N1	29-SEP-2007 07:35:28	Dark	40.500	46	Del Vel	1.9540	10600.	81	29175	No
67	GOM_NL__2PRFIN20070929_073703_000000402062_00063_29175_8779.N1	29-SEP-2007 07:37:03	Dark	40.000	41	Eps Car	1.8600	4100.0	80	29175	No
68	GOM_NL__2PRFIN20070929_074916_000000392062_00064_29176_8780.N1	29-SEP-2007 07:49:16	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	29176	No
69	GOM_NL__2PRFIN20070929_080051_000000422062_00064_29176_8781.N1	29-SEP-2007 08:00:51	Straylight	42.000	18	24Alp PsA	1.1660	9700.0	84	29176	No
70	GOM_NL__2PRFIN20070929_081322_000000362062_00064_29176_8782.N1	29-SEP-2007 08:13:22	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	29176	No
71	GOM_NL__2PRFIN20070929_081739_000000372062_00064_29176_8783.N1	29-SEP-2007 08:17:39	Bright	36.500	164	44Eta Peg	2.9480	5400.0	73	29176	No
72	GOM_NL__2PRFIN20070929_082710_000000352062_00064_29176_8784.N1	29-SEP-2007 08:27:10	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	29176	No
73	GOM_NL__2PRFIN20070929_083425_000000342062_00064_29176_8785.N1	29-SEP-2007 08:34:25	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	29176	No
74	GOM_NL__2PRFIN20070929_083619_000000362062_00064_29176_8786.N1	29-SEP-2007 08:36:19	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	29176	No
75	GOM_NL__2PRFIN20070929_084217_000000372062_00064_29176_8787.N1	29-SEP-2007 08:42:17	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29176	No
76	GOM_NL__2PRFIN20070929_084347_000000342062_00064_29176_8788.N1	29-SEP-2007 08:43:47	Bright	34.000	82	48Bet UMa	2.3650	10600.	68	29176	No
77	GOM_NL__2PRFIN20070929_084659_000000522062_00064_29176_8789.N1	29-SEP-2007 08:46:59	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29176	No
78	GOM_NL__2PRFIN20070929_090306_000000452062_00064_29176_8790.N1	29-SEP-2007 09:03:06	Twilight	44.500	48	30Alp Hya	1.9770	4100.0	89	29176	No
79	GOM_NL__2PRFIN20070929_091246_000000472062_00064_29176_8791.N1	29-SEP-2007 09:12:46	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	29176	No
80	GOM_NL__2PRFIN20070929_091605_000000422062_00064_29176_8792.N1	29-SEP-2007 09:16:05	Dark	41.500	46	Del Vel	1.9540	10600.	83	29176	No
81	GOM_NL__2PRFIN20070929_091740_000000442062_00064_29176_8793.N1	29-SEP-2007 09:17:40	Dark	43.500	41	Eps Car	1.8600	4100.0	87	29176	No
82	GOM_NL__2PRFIN20070929_092952_000000412062_00065_29177_8790.N1	29-SEP-2007 09:29:52	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	29177	No
83	GOM_NL__2PRFIN20070929_094127_000000442062_00065_29177_8791.N1	29-SEP-2007 09:41:27	Straylight	43.500	18	24Alp PsA	1.1660	9700.0	87	29177	No
84	GOM_NL__2PRFIN20070929_095358_000000372062_00065_29177_8792.N1	29-SEP-2007 09:53:58	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	29177	No
85	GOM_NL__2PRFIN20070929_095815_000000342062_00065_29177_8793.N1	29-SEP-2007 09:58:15	Bright	34.000	164	44Eta Peg	2.9480	5400.0	68	29177	No
86	GOM_NL__2PRFIN20070929_100746_000000362062_00065_29177_8794.N1	29-SEP-2007 10:07:46	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	29177	No
87	GOM_NL__2PRFIN20070929_101500_000000372062_00065_29177_8795.N1	29-SEP-2007 10:15:00	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	29177	No
88	GOM_NL__2PRFIN20070929_101655_000000372062_00065_29177_8796.N1	29-SEP-2007 10:16:55	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	29177	No
89	GOM_NL__2PRFIN20070929_102253_000000362062_00065_29177_8797.N1	29-SEP-2007 10:22:53	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	29177	No
90	GOM_NL__2PRFIN20070929_102423_000000342062_00065_29177_8798.N1	29-SEP-2007 10:24:23	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	29177	No
91	GOM_NL__2PRFIN20070929_102735_000000332062_00065_29177_8799.N1	29-SEP-2007 10:27:35	Bright	32.500	174	52Psi UMa	3.0040	4400.0	65	29177	No
92	GOM_NL__2PRFIN20070929_104342_000000472062_00065_29177_8800.N1	29-SEP-2007 10:43:42	Twilight	47.000	48	30Alp Hya	1.9770	4100.0	94	29177	No
93	GOM_NL__2PRFIN20070929_105323_000000422062_00065_29177_8801.N1	29-SEP-2007 10:53:23	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	29177	No
94	GOM_NL__2PRFIN20070929_105641_000000432062_00065_29177_8802.N1	29-SEP-2007 10:56:41	Dark	42.500	46	Del Vel	1.9540	10600.	85	29177	No
95	GOM_NL__2PRFIN20070929_105816_000000472062_00065_29177_8803.N1	29-SEP-2007 10:58:16	Dark	47.000	41	Eps Car	1.8600	4100.0	94	29177	No
96	GOM_NL__2PRFIN20070929_111028_000000402062_00066_29178_8809.N1	29-SEP-2007 11:10:28	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	29178	No
97	GOM_NL__2PRFIN20070929_112203_000000412062_00066_29178_8810.N1	29-SEP-2007 11:22:03	Straylight	40.500	18	24Alp PsA	1.1660	9700.0	81	29178	No
98	GOM_NL__2PRFIN20070929_113434_000000352062_00066_29178_8811.N1	29-SEP-2007 11:34:34	Bright	35.000	90	54Alp Peg	2.4870	11000.	70	29178	No
99	GOM_NL__2PRFIN20070929_113851_000000352062_00066_29178_8812.N1	29-SEP-2007 11:38:51	Bright	34.500	164	44Eta Peg	2.9480	5400.0	69	29178	No
100	GOM_NL__2PRFIN20070929_114822_000000372062_00066_29178_8813.N1	29-SEP-2007 11:48:22	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	29178	No
101	GOM_NL__2PRFIN20070929_115536_000000372062_00066_29178_8814.N1	29-SEP-2007 11:55:36	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	29178	No

102	GOM_NL__2PRFIN20070929_115731_000000372062_00066_29178_8815.N1	29-SEP-2007 11:57:31	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	29178	No
103	GOM_NL__2PRFIN20070929_120329_000000482062_00066_29178_8816.N1	29-SEP-2007 12:03:29	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	29178	No
104	GOM_NL__2PRFIN20070929_120459_000000352062_00066_29178_8817.N1	29-SEP-2007 12:04:59	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	29178	No
105	GOM_NL__2PRFIN20070929_120811_000000332062_00066_29178_8818.N1	29-SEP-2007 12:08:11	Bright	32.500	174	52Psi UMa	3.0040	4400.0	65	29178	No
106	GOM_NL__2PRFIN20070929_122418_000000462062_00066_29178_8819.N1	29-SEP-2007 12:24:18	Twilight	46.000	48	30Alp Hya	1.9770	4100.0	92	29178	No
107	GOM_NL__2PRFIN20070929_123359_000000442062_00066_29178_8820.N1	29-SEP-2007 12:33:59	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	29178	No
108	GOM_NL__2PRFIN20070929_123717_000000392062_00066_29178_8821.N1	29-SEP-2007 12:37:17	Dark	39.000	46	Del Vel	1.9540	10600.	78	29178	No
109	GOM_NL__2PRFIN20070929_123852_000000462062_00066_29178_8822.N1	29-SEP-2007 12:38:52	Dark	46.000	41	Eps Car	1.8600	4100.0	92	29178	No

### 3. Quality information per product

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

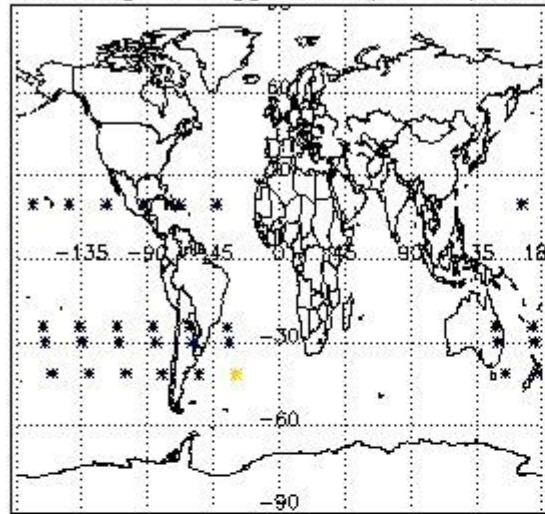
#### 3.1 Plot quality information per product (time dependant)



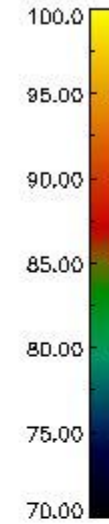
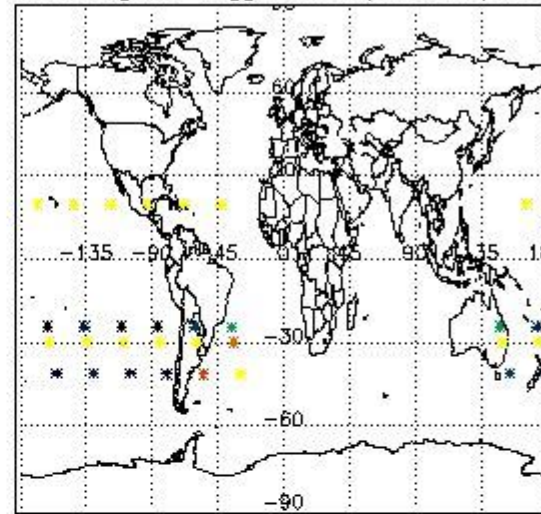
#### 3.2 Plot quality information per product (world map)



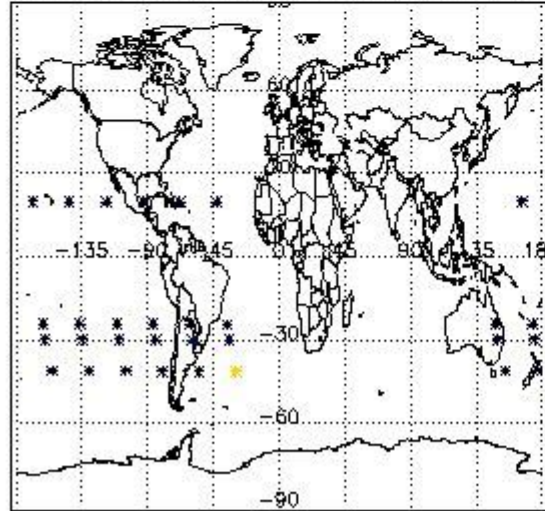
Percentage of flagged data per O3 profile



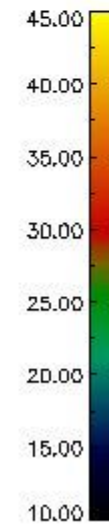
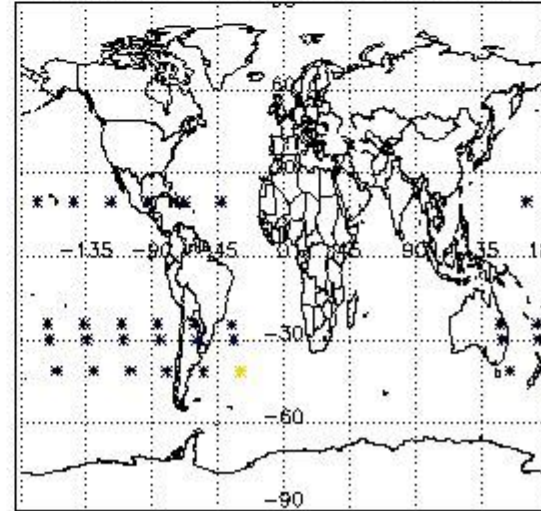
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

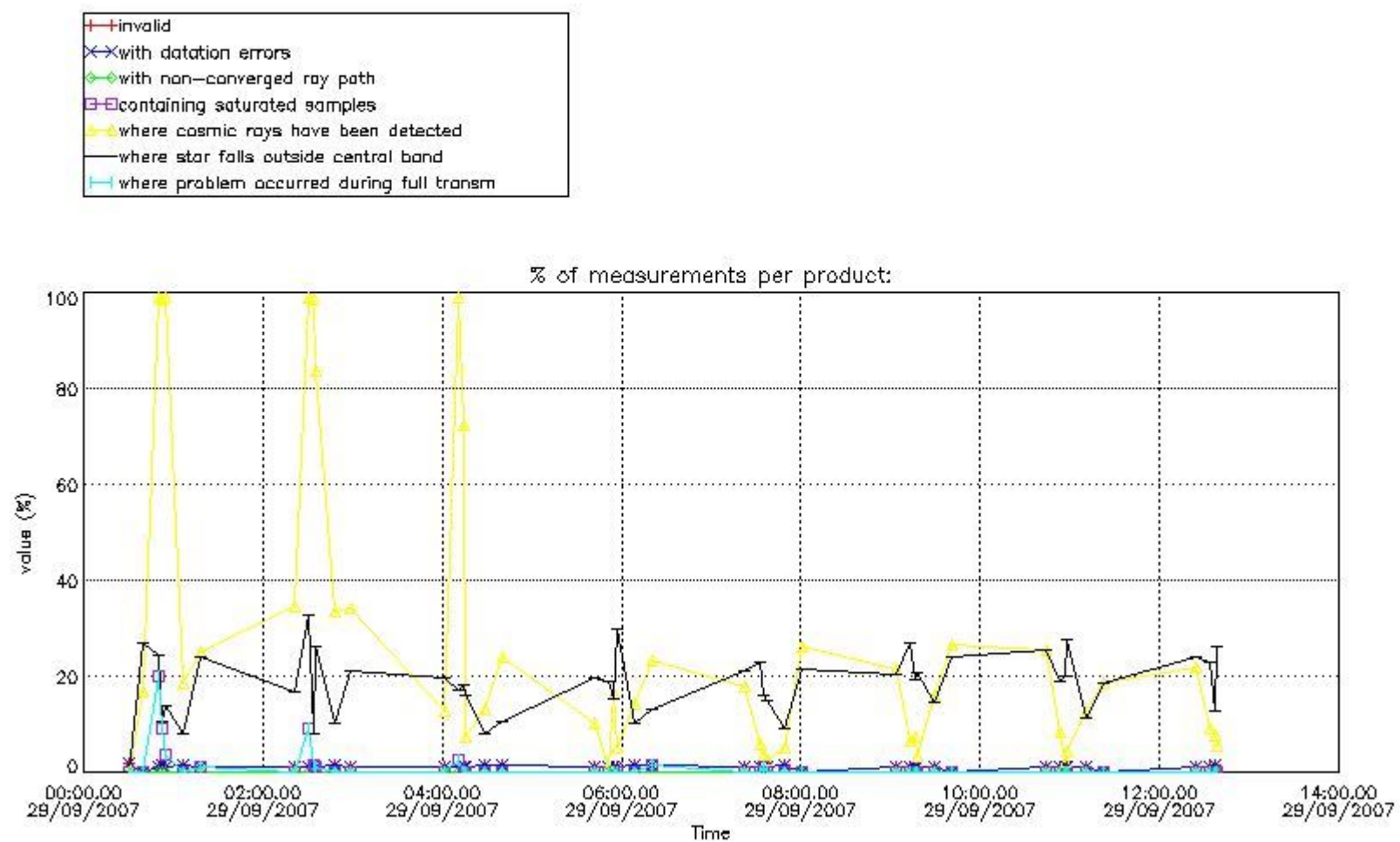


#### 4. Level 1 quality information per product

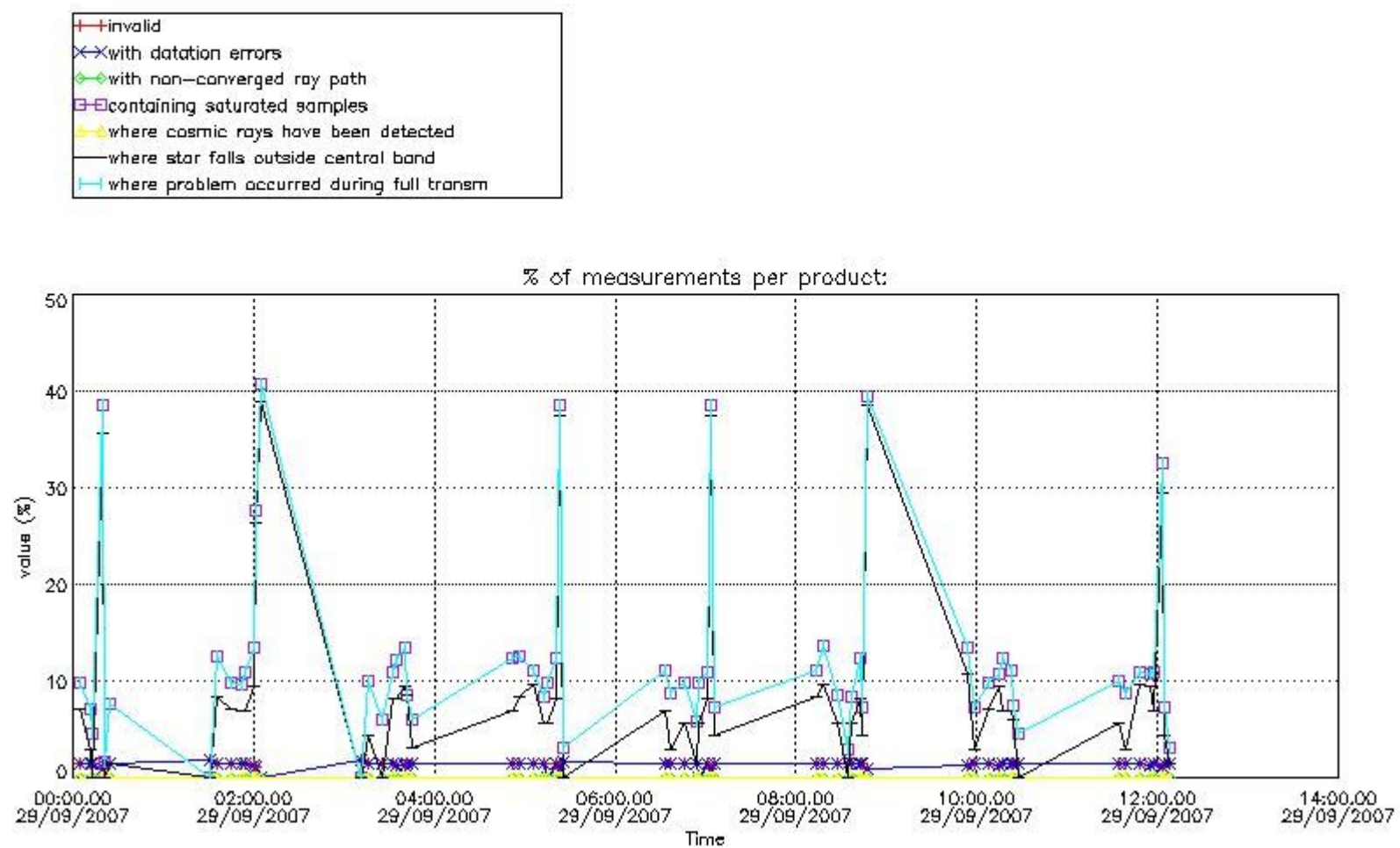
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



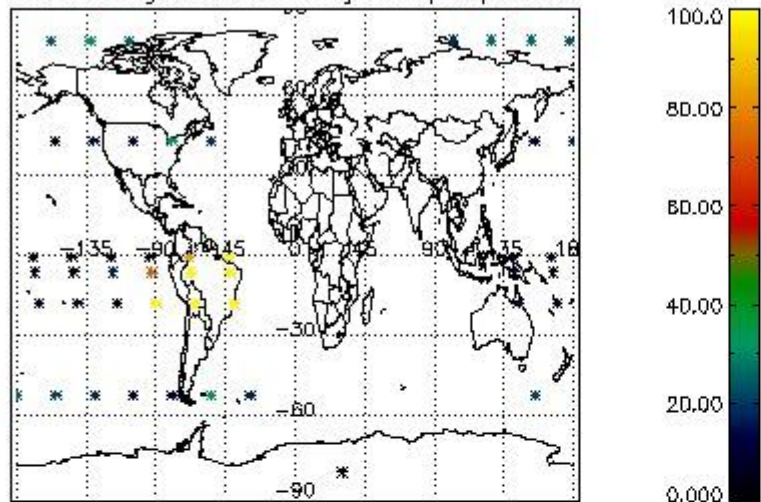
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



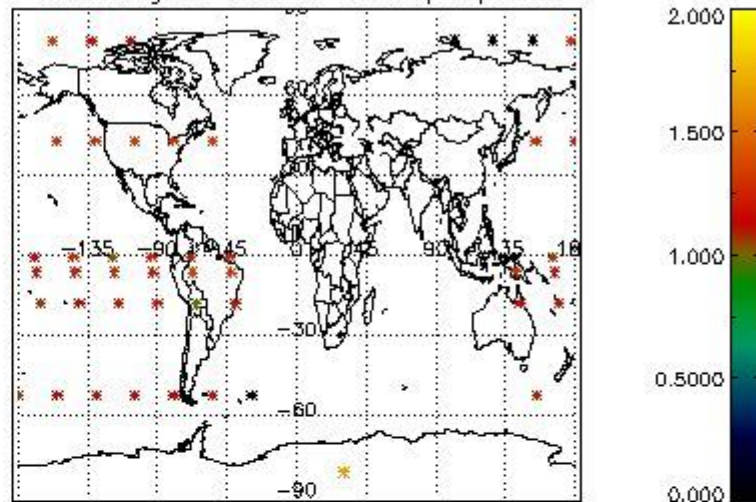
4.2 Plot quality information per product coming from level 1b processing (world map)  
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



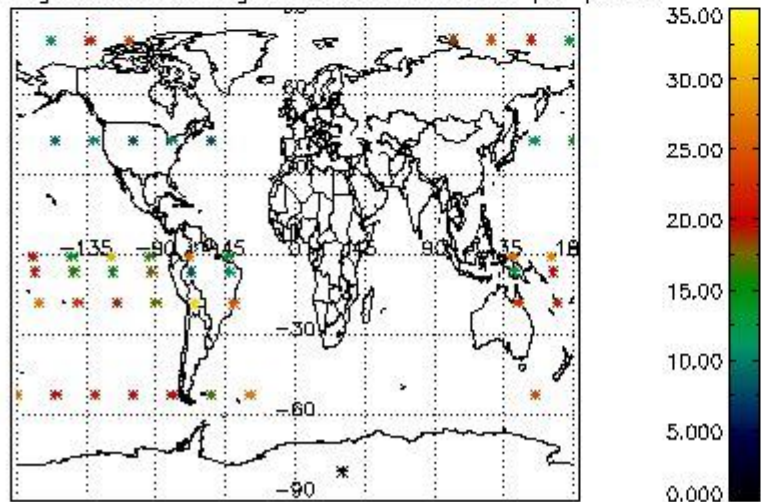
Percentage of cosmic ray hits per profile



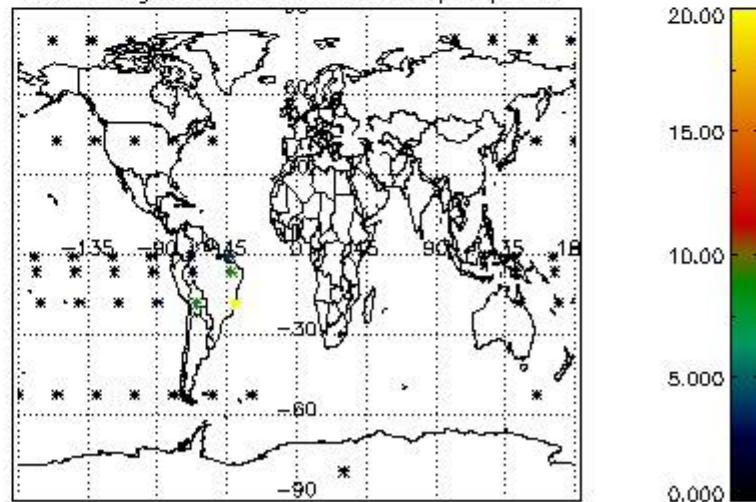
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

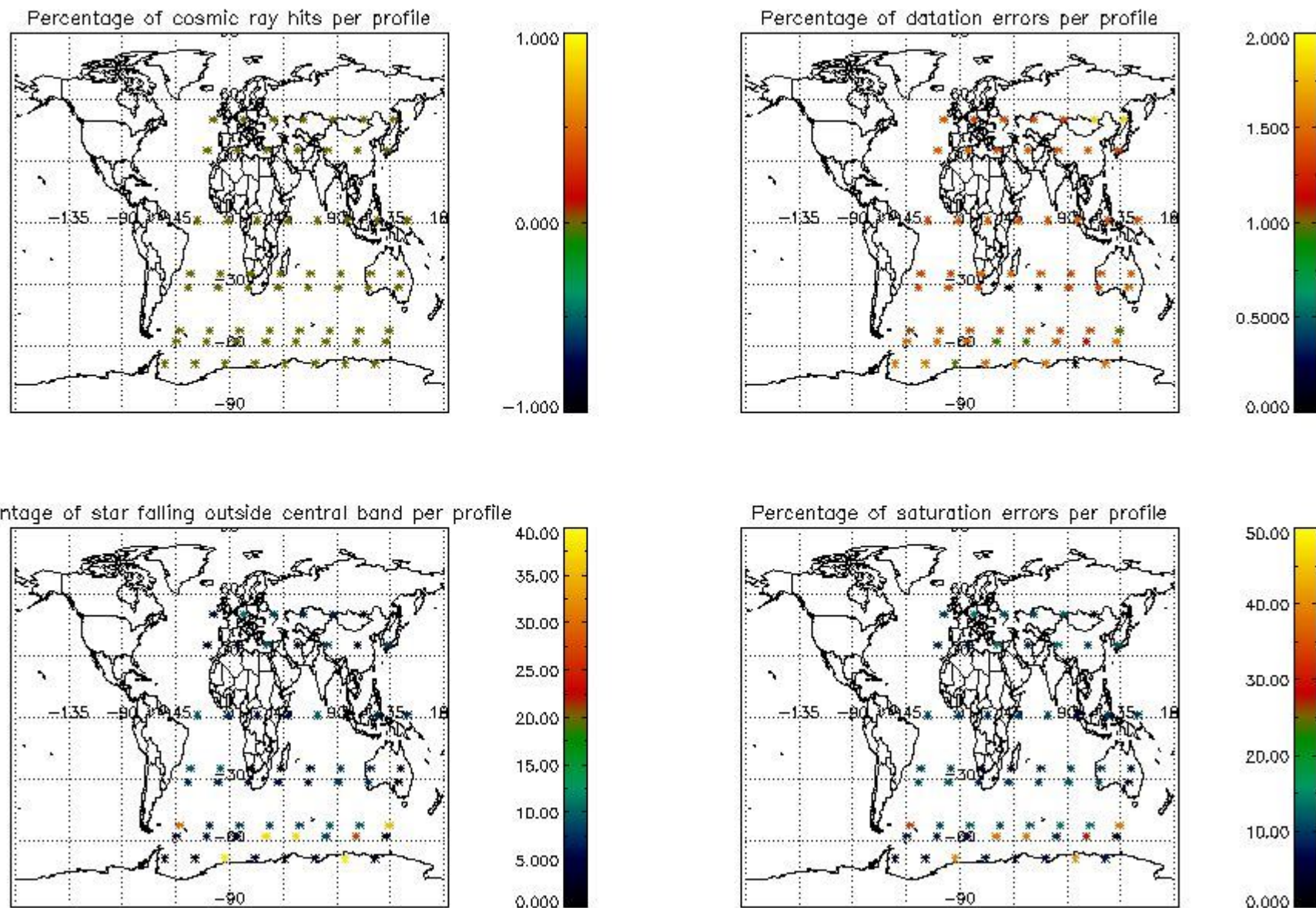


Percentage of saturation errors per profile



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





## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

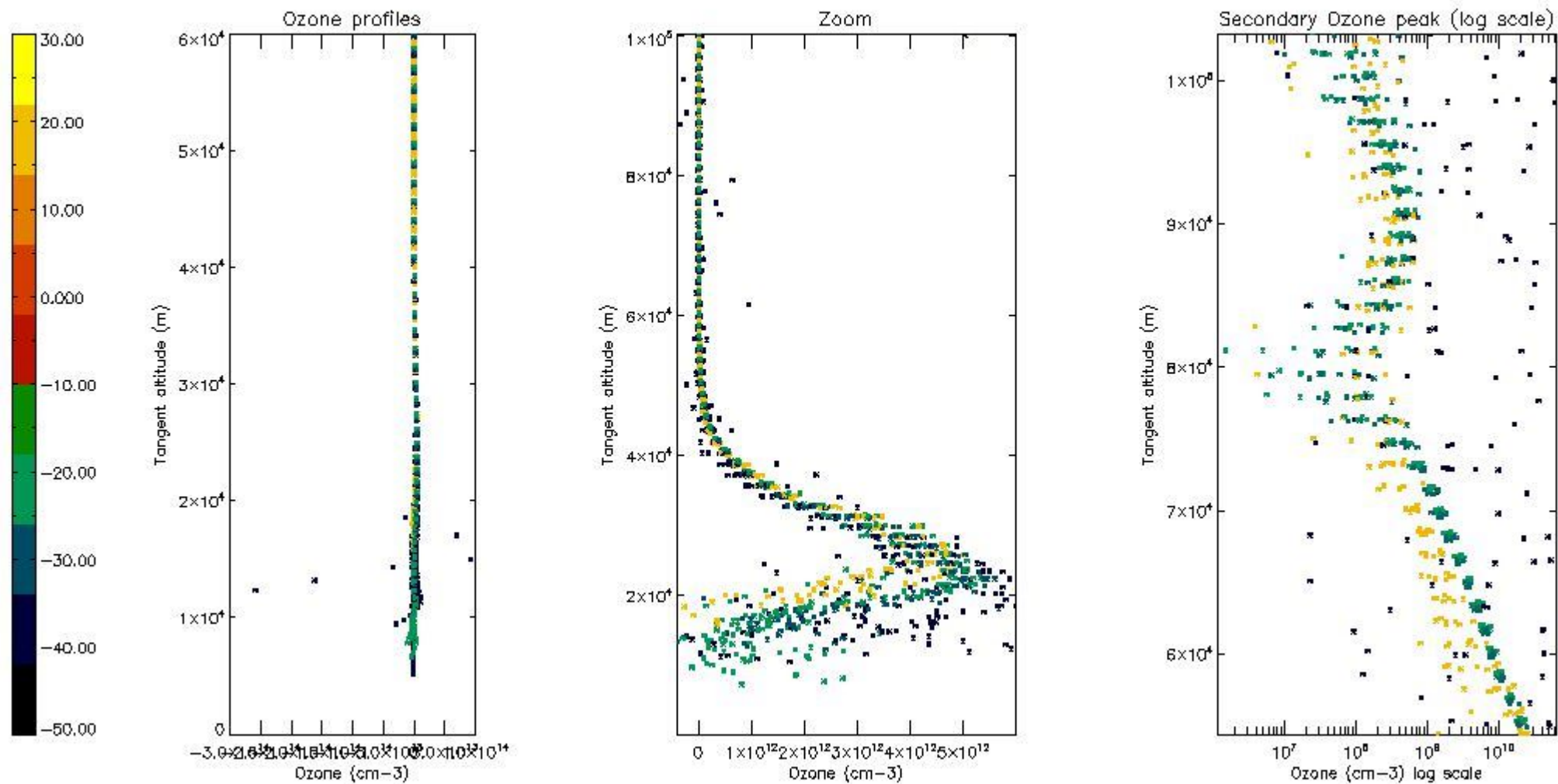
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	13

STD < 10	9
STD < 5	2

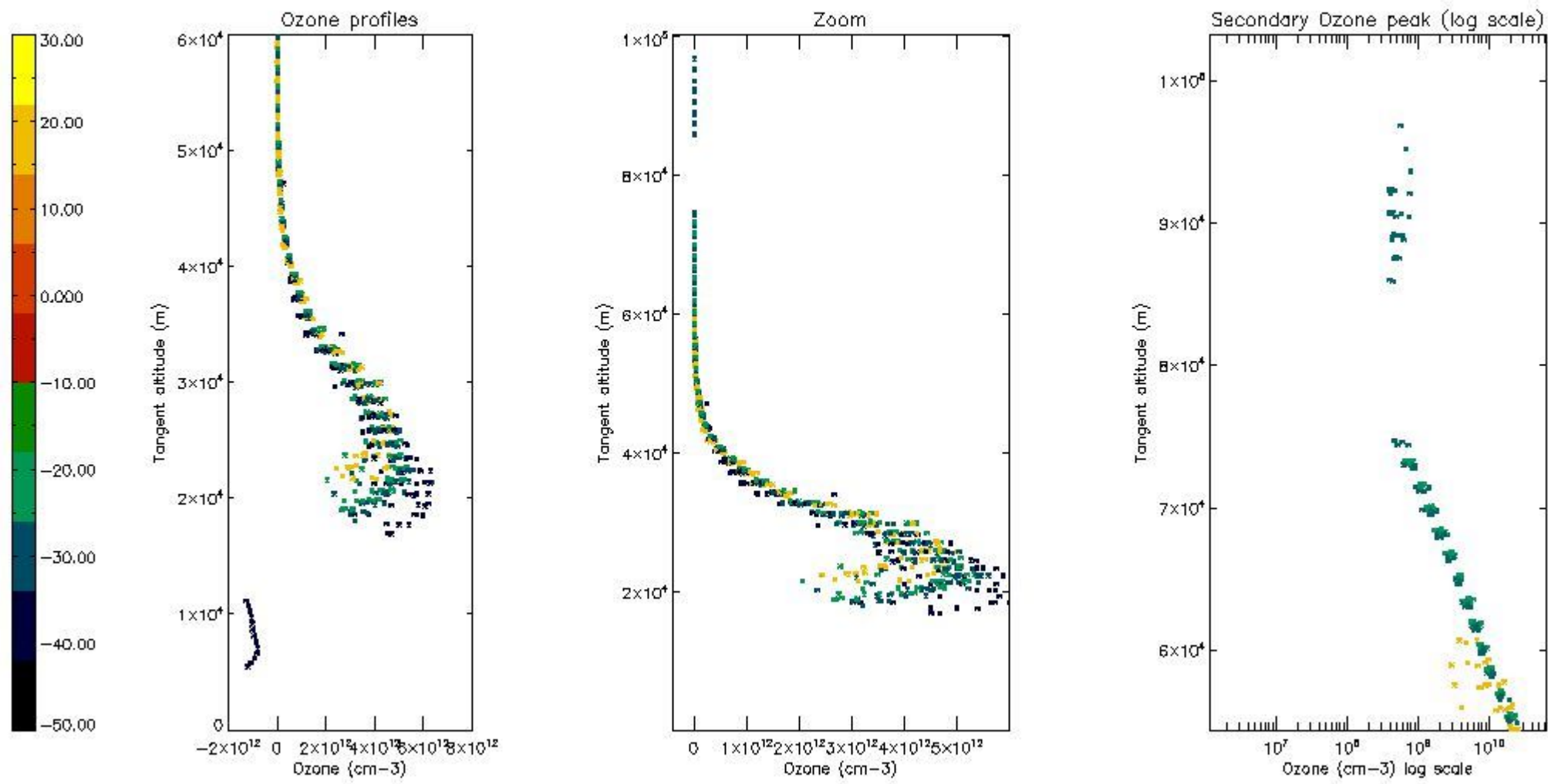
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



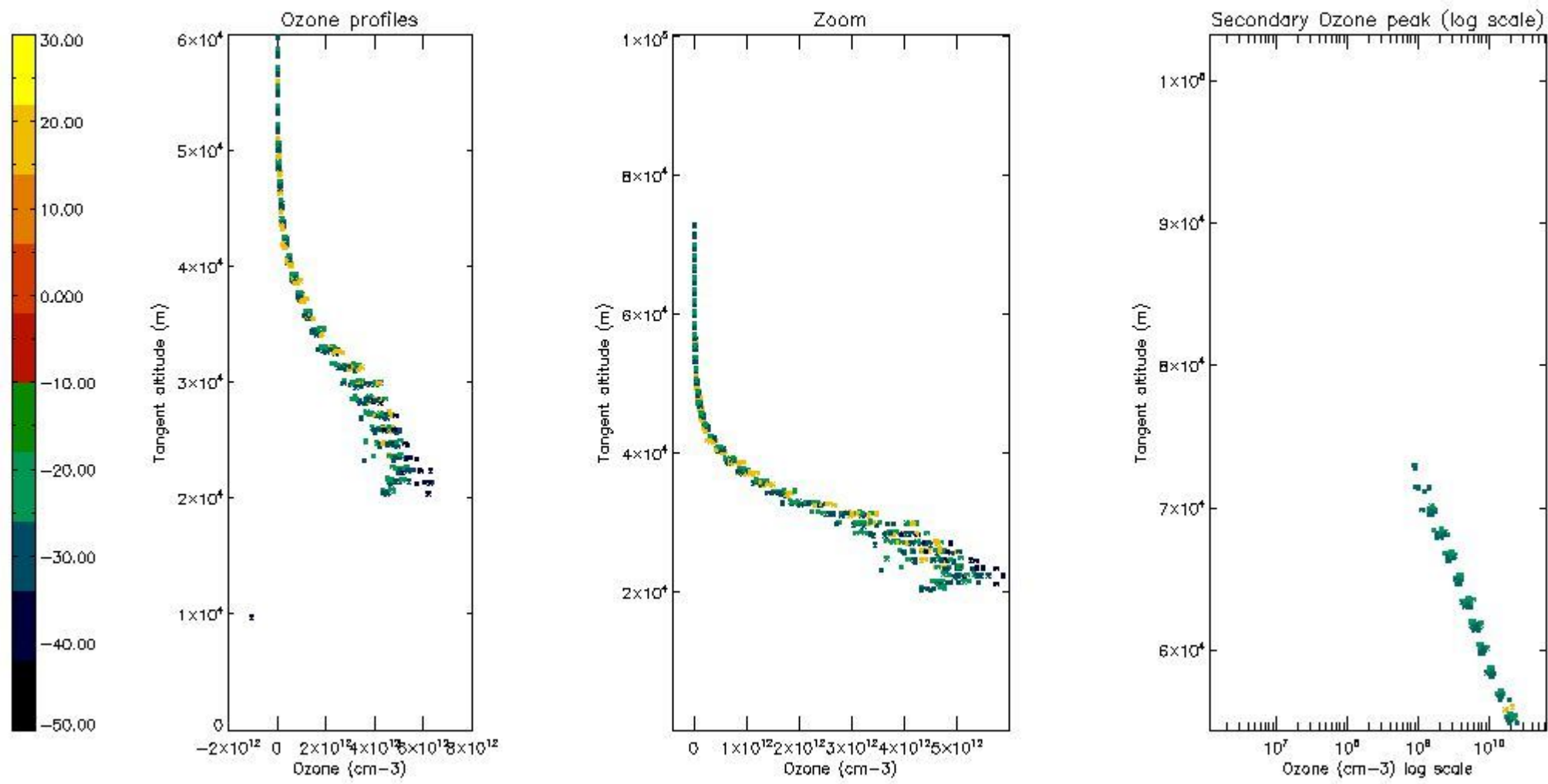
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

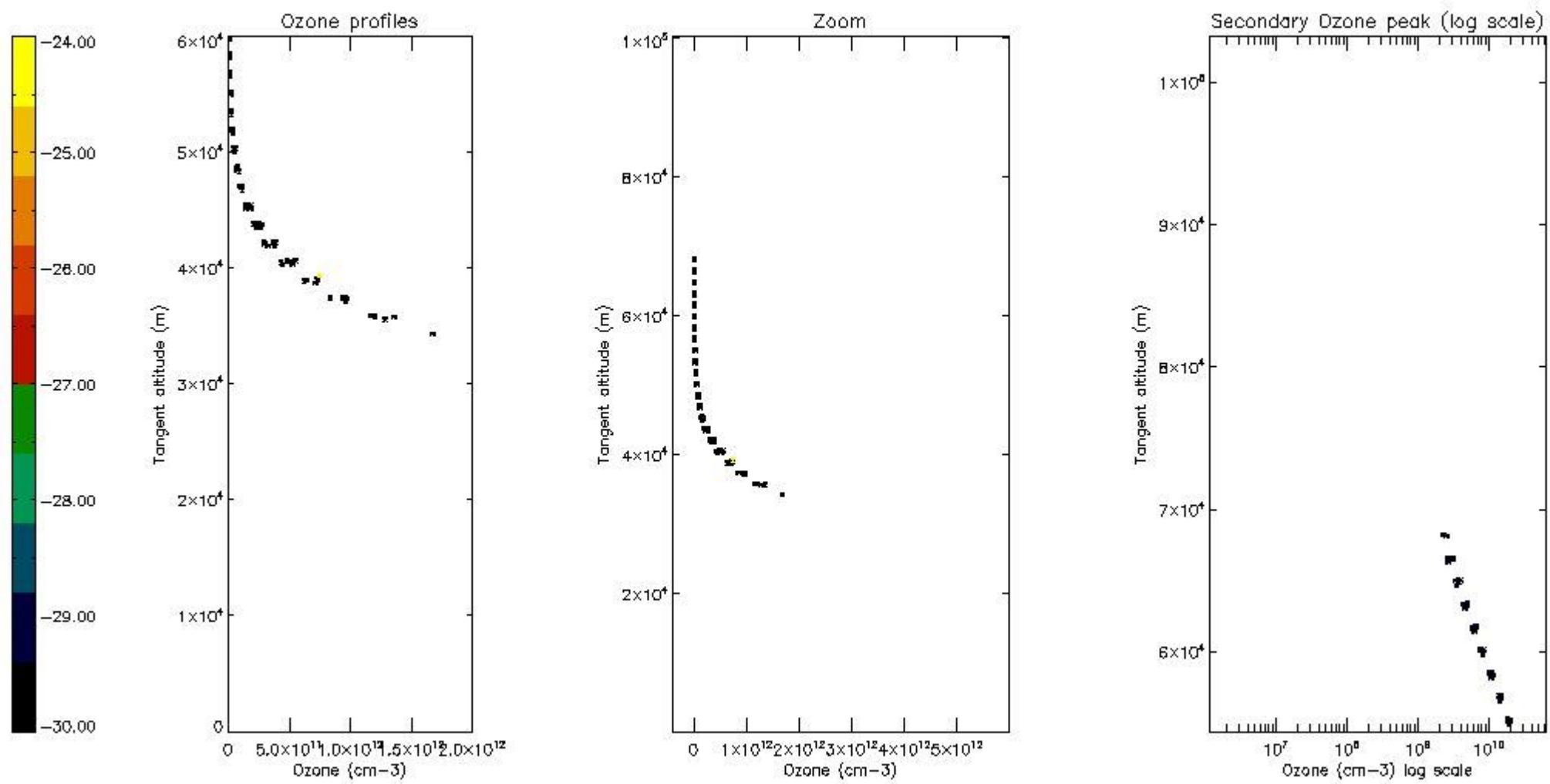
The colorbar represents the latitude.



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

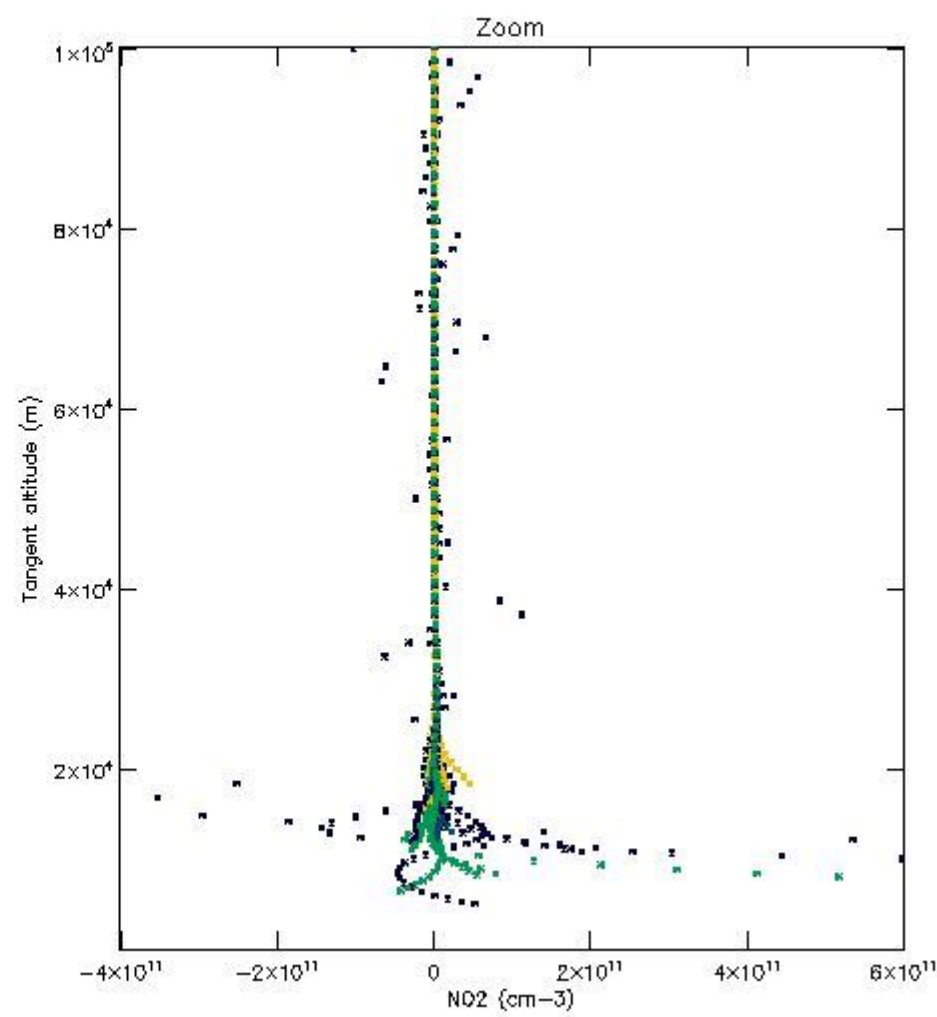
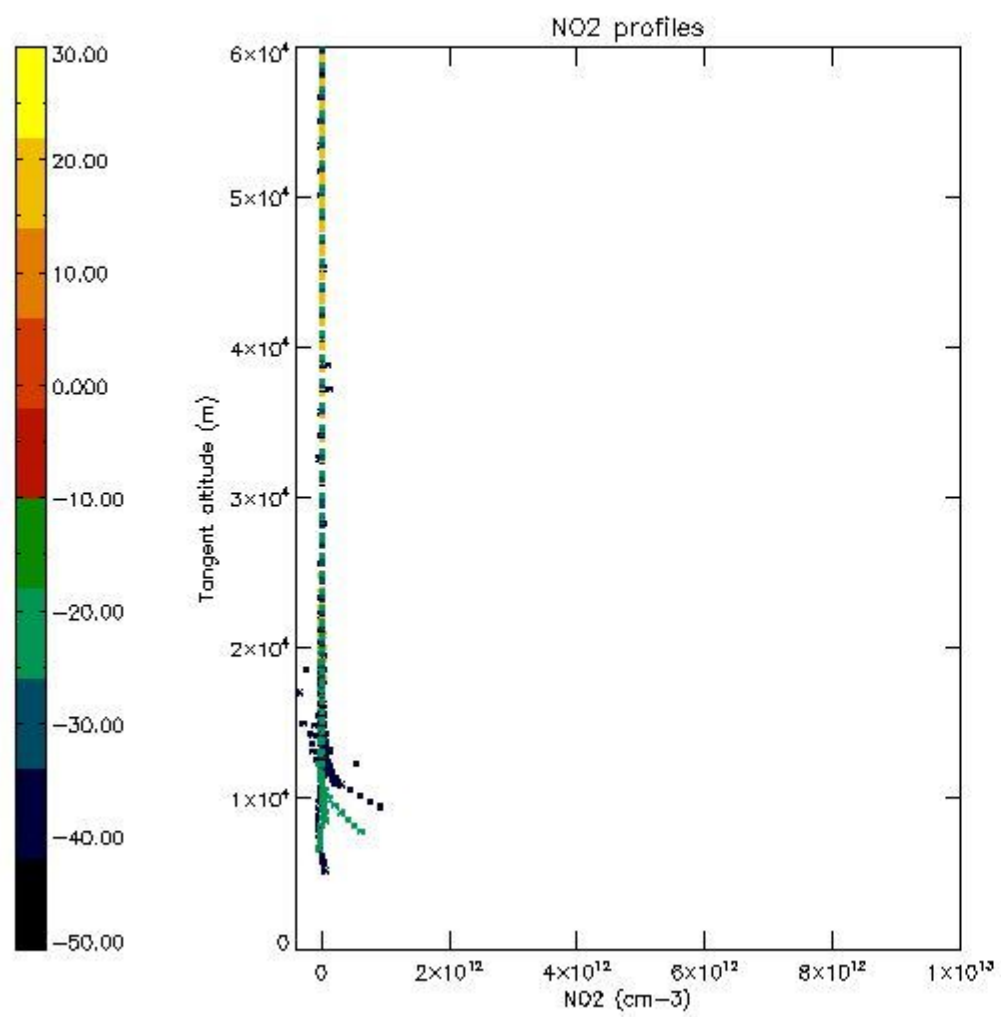
The colorbar represents the latitude.





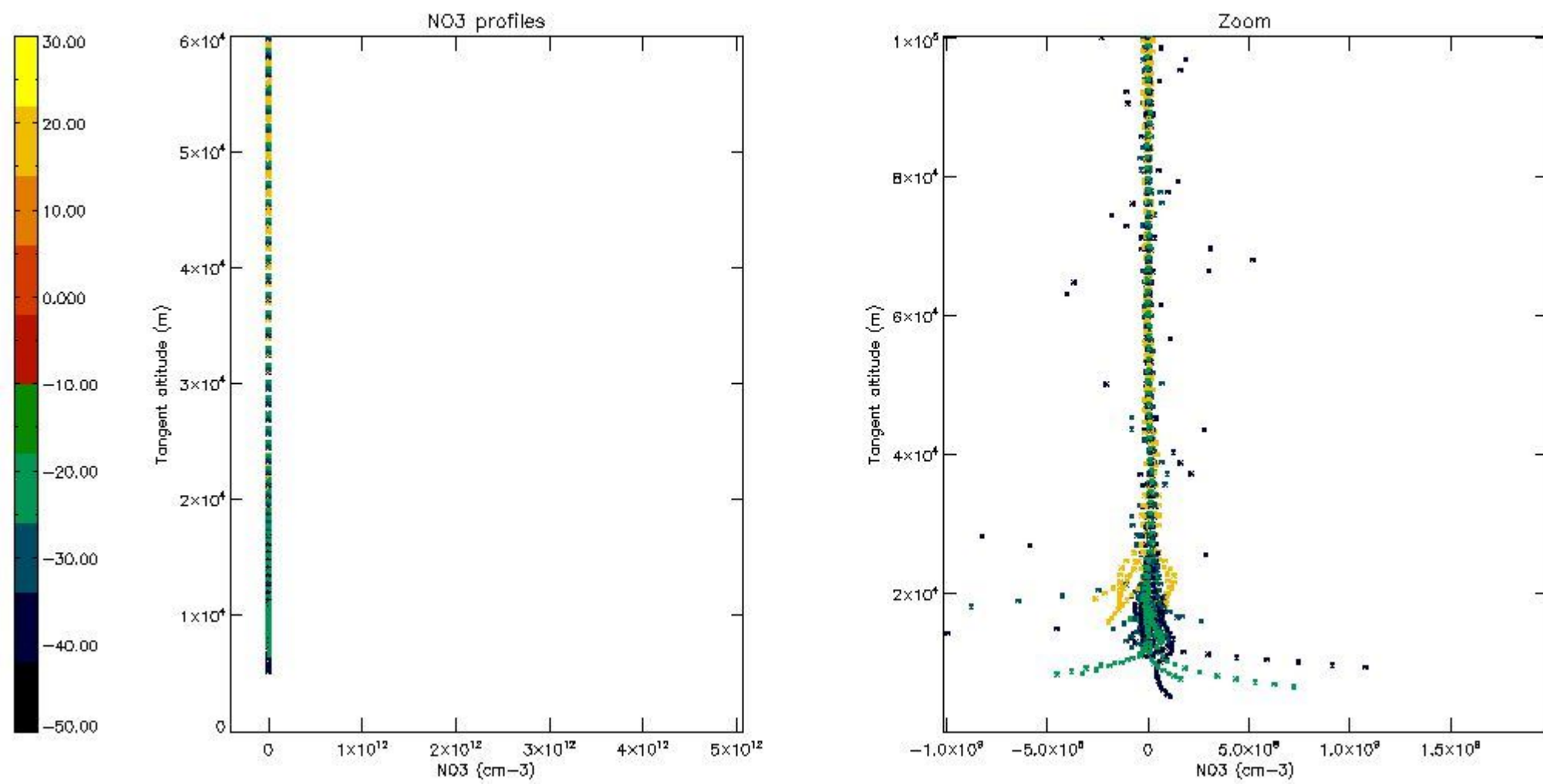
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.



## 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	29-SEP-2007 00:04:09
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	29-SEP-2007 00:04:09
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	29-SEP-2007 00:04:09

# 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 06:16:18
Data source version	GOMOS/6.01
Start time of products	29-09-2007 (29SEP2007 00:00:00)
Stop time of products	30-09-2007 (30SEP2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	109
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__2PRFIN20070929_000409_000000362062_00059_29171_8711.N1	29-SEP-2007 00:04:09	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	29171	No
2	GOM_NL__2PRFIN20070929_001125_000000352062_00059_29171_8712.N1	29-SEP-2007 00:11:25	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29171	No
3	GOM_NL__2PRFIN20070929_001318_000000342062_00059_29171_8713.N1	29-SEP-2007 00:13:18	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	29171	No
4	GOM_NL__2PRFIN20070929_001917_000000522062_00059_29171_8714.N1	29-SEP-2007 00:19:17	Bright	52.000	36	50Alp UMa	1.8000	6300.0	104	29171	No
5	GOM_NL__2PRFIN20070929_002047_000000322062_00059_29171_8715.N1	29-SEP-2007 00:20:47	Bright	32.000	82	48Bet UMa	2.3650	10600.	64	29171	No
6	GOM_NL__2PRFIN20070929_002358_000000332062_00059_29171_8716.N1	29-SEP-2007 00:23:58	Bright	33.000	174	52Psi UMa	3.0040	4400.0	66	29171	No
7	GOM_NL__2PRFIN20070929_003037_000000302062_00059_29171_8717.N1	29-SEP-2007 00:30:37	Bright	30.000	166	17Eps Leo	2.9800	6000.0	60	29171	No
8	GOM_NL__2PRFIN20070929_004004_000000482062_00059_29171_8718.N1	29-SEP-2007 00:40:04	Twilight	48.000	48	30Alp Hya	1.9770	4100.0	96	29171	No
9	GOM_NL__2PRFIN20070929_004945_000000452062_00059_29171_8719.N1	29-SEP-2007 00:49:45	Dark	45.000	65	Lam Vel	2.2040	4400.0	90	29171	No
10	GOM_NL__2PRFIN20070929_005303_000000382062_00059_29171_8720.N1	29-SEP-2007 00:53:03	Dark	38.000	46	Del Vel	1.9540	10600.	76	29171	No
11	GOM_NL__2PRFIN20070929_005438_000000402062_00059_29171_8721.N1	29-SEP-2007 00:54:38	Dark	39.500	41	Eps Car	1.8600	4100.0	79	29171	No
12	GOM_NL__2PRFIN20070929_010650_000000382062_00060_29172_8713.N1	29-SEP-2007 01:06:50	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	29172	No
13	GOM_NL__2PRFIN20070929_011827_000000442062_00060_29172_8714.N1	29-SEP-2007 01:18:27	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	29172	No
14	GOM_NL__2PRFIN20070929_013059_000000272062_00060_29172_8715.N1	29-SEP-2007 01:30:59	Bright	27.000	90	54Alp Peg	2.4870	11000.	54	29172	No
15	GOM_NL__2PRFIN20070929_013515_000000362062_00060_29172_8716.N1	29-SEP-2007 01:35:15	Bright	36.000	164	44Eta Peg	2.9480	5400.0	72	29172	No
16	GOM_NL__2PRFIN20070929_014445_000000362062_00060_29172_8717.N1	29-SEP-2007 01:44:45	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	29172	No
17	GOM_NL__2PRFIN20070929_015201_000000362062_00060_29172_8718.N1	29-SEP-2007 01:52:01	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29172	No
18	GOM_NL__2PRFIN20070929_015354_000000372062_00060_29172_8719.N1	29-SEP-2007 01:53:54	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	29172	No
19	GOM_NL__2PRFIN20070929_015953_000000372062_00060_29172_8720.N1	29-SEP-2007 01:59:53	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	29172	No
20	GOM_NL__2PRFIN20070929_020123_000000442062_00060_29172_8721.N1	29-SEP-2007 02:01:23	Bright	43.500	82	48Bet UMa	2.3650	10600.	87	29172	No
21	GOM_NL__2PRFIN20070929_020434_000000522062_00060_29172_8722.N1	29-SEP-2007 02:04:34	Bright	51.500	174	52Psi UMa	3.0040	4400.0	103	29172	No
22	GOM_NL__2PRFIN20070929_022040_000000422062_00060_29172_8723.N1	29-SEP-2007 02:20:40	Twilight	42.000	48	30Alp Hya	1.9770	4100.0	84	29172	No
23	GOM_NL__2PRFIN20070929_023021_000000512062_00060_29172_8724.N1	29-SEP-2007 02:30:21	Dark	50.500	65	Lam Vel	2.2040	4400.0	101	29172	No
24	GOM_NL__2PRFIN20070929_023339_000000372062_00060_29172_8725.N1	29-SEP-2007 02:33:39	Dark	37.000	46	Del Vel	1.9540	10600.	74	29172	No
25	GOM_NL__2PRFIN20070929_023515_000000462062_00060_29172_8726.N1	29-SEP-2007 02:35:15	Dark	46.000	41	Eps Car	1.8600	4100.0	92	29172	No
26	GOM_NL__2PRFIN20070929_024726_000000392062_00061_29173_8727.N1	29-SEP-2007 02:47:26	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	29173	No
27	GOM_NL__2PRFIN20070929_025903_000000432062_00061_29173_8728.N1	29-SEP-2007 02:59:03	Straylight	42.500	18	24Alp PsA	1.1660	9700.0	85	29173	No
28	GOM_NL__2PRFIN20070929_031134_000000272062_00061_29173_8729.N1	29-SEP-2007 03:11:34	Bright	27.000	90	54Alp Peg	2.4870	11000.	54	29173	No
29	GOM_NL__2PRFIN20070929_031551_000000352062_00061_29173_8730.N1	29-SEP-2007 03:15:51	Bright	35.000	164	44Eta Peg	2.9480	5400.0	70	29173	No
30	GOM_NL__2PRFIN20070929_032521_000000342062_00061_29173_8731.N1	29-SEP-2007 03:25:21	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	29173	No
31	GOM_NL__2PRFIN20070929_033237_000000372062_00061_29173_8732.N1	29-SEP-2007 03:32:37	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	29173	No
32	GOM_NL__2PRFIN20070929_033430_000000372062_00061_29173_8733.N1	29-SEP-2007 03:34:30	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	29173	No
33	GOM_NL__2PRFIN20070929_034029_000000372062_00061_29173_8734.N1	29-SEP-2007 03:40:29	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	29173	No
34	GOM_NL__2PRFIN20070929_034159_000000352062_00061_29173_8735.N1	29-SEP-2007 03:41:59	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	29173	No
35	GOM_NL__2PRFIN20070929_034510_000000332062_00061_29173_8736.N1	29-SEP-2007 03:45:10	Bright	33.000	174	52Psi UMa	3.0040	4400.0	66	29173	No
36	GOM_NL__2PRFIN20070929_040117_000000442062_00061_29173_8737.N1	29-SEP-2007 04:01:17	Twilight	43.500	48	30Alp Hya	1.9770	4100.0	87	29173	No
37	GOM_NL__2PRFIN20070929_041058_000000412062_00061_29173_8738.N1	29-SEP-2007 04:10:58	Dark	41.000	65	Lam Vel	2.2040	4400.0	82	29173	No
38	GOM_NL__2PRFIN20070929_041416_000000422062_00061_29173_8739.N1	29-SEP-2007 04:14:16	Dark	41.500	46	Del Vel	1.9540	10600.	83	29173	No
39	GOM_NL__2PRFIN20070929_041551_000000412062_00061_29173_8740.N1	29-SEP-2007 04:15:51	Dark	40.500	41	Eps Car	1.8600	4100.0	81	29173	No
40	GOM_NL__2PRFIN20070929_042803_000000382062_00062_29174_8732.N1	29-SEP-2007 04:28:03	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	29174	No
41	GOM_NL__2PRFIN20070929_043939_000000382062_00062_29174_8733.N1	29-SEP-2007 04:39:39	Straylight	37.500	18	24Alp PsA	1.1660	9700.0	75	29174	No
42	GOM_NL__2PRFIN20070929_045210_000000372062_00062_29174_8734.N1	29-SEP-2007 04:52:10	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	29174	No

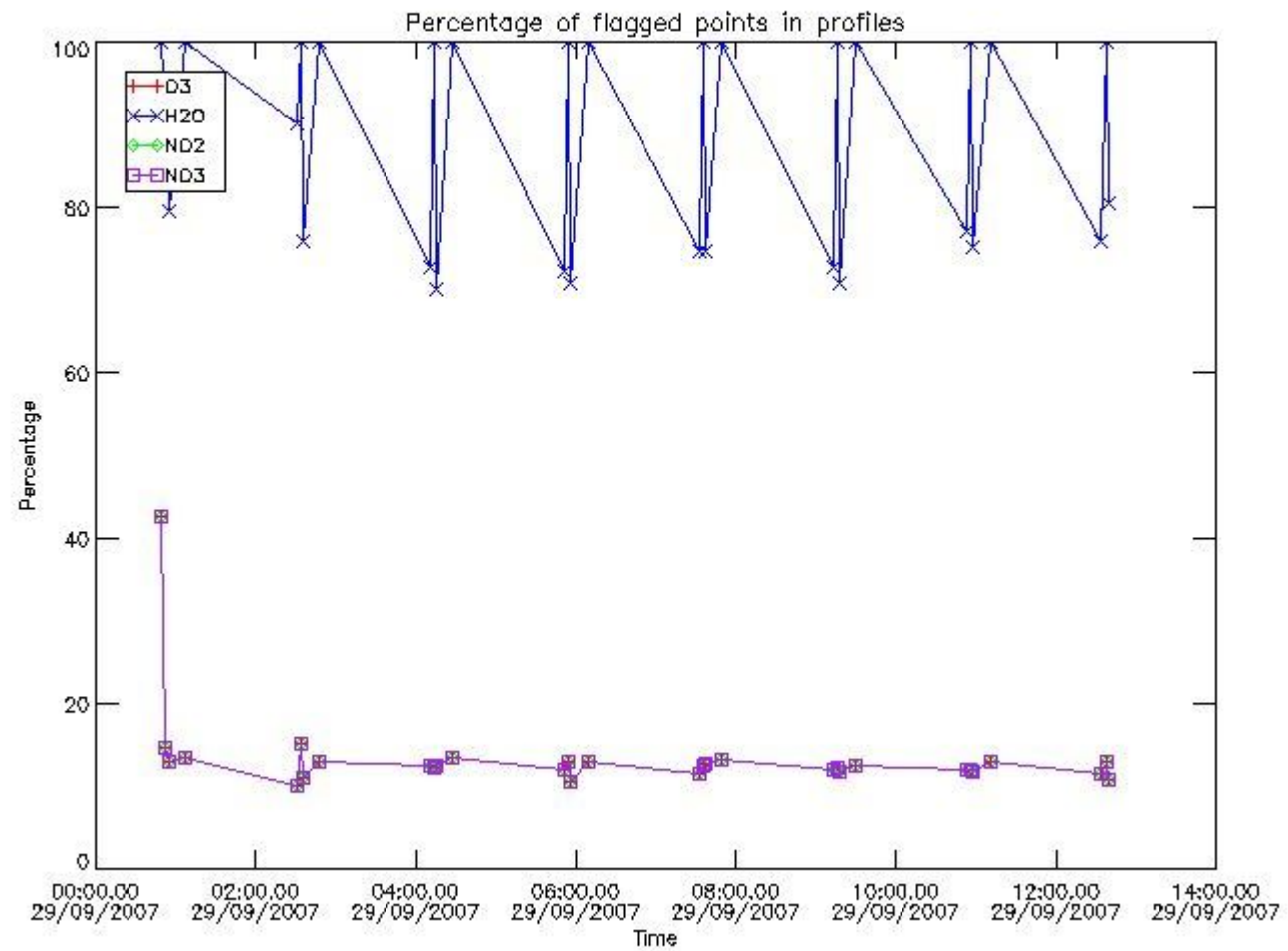
43	GOM_NL__2PRFIN20070929_045627_000000362062_00062_29174_8735.N1	29-SEP-2007 04:56:27	Bright	36.000	164	44Eta Peg	2.9480	5400.0	72	29174	No
44	GOM_NL__2PRFIN20070929_050557_000000362062_00062_29174_8736.N1	29-SEP-2007 05:05:57	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	29174	No
45	GOM_NL__2PRFIN20070929_051313_000000362062_00062_29174_8737.N1	29-SEP-2007 05:13:13	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29174	No
46	GOM_NL__2PRFIN20070929_051506_000000362062_00062_29174_8738.N1	29-SEP-2007 05:15:06	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	29174	No
47	GOM_NL__2PRFIN20070929_052105_000000372062_00062_29174_8739.N1	29-SEP-2007 05:21:05	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29174	No
48	GOM_NL__2PRFIN20070929_052235_000000522062_00062_29174_8740.N1	29-SEP-2007 05:22:35	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	29174	No
49	GOM_NL__2PRFIN20070929_052547_000000322062_00062_29174_8741.N1	29-SEP-2007 05:25:47	Bright	32.000	174	52Psi UMa	3.0040	4400.0	64	29174	No
50	GOM_NL__2PRFIN20070929_054153_000000442062_00062_29174_8742.N1	29-SEP-2007 05:41:53	Twilight	43.500	48	30Alp Hya	1.9770	4100.0	87	29174	No
51	GOM_NL__2PRFIN20070929_055134_000000422062_00062_29174_8743.N1	29-SEP-2007 05:51:34	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	29174	No
52	GOM_NL__2PRFIN20070929_055452_000000402062_00062_29174_8744.N1	29-SEP-2007 05:54:52	Dark	39.500	46	Del Vel	1.9540	10600.	79	29174	No
53	GOM_NL__2PRFIN20070929_055627_000000492062_00062_29174_8745.N1	29-SEP-2007 05:56:27	Dark	48.500	41	Eps Car	1.8600	4100.0	97	29174	No
54	GOM_NL__2PRFIN20070929_060839_000000392062_00063_29175_8766.N1	29-SEP-2007 06:08:39	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	29175	No
55	GOM_NL__2PRFIN20070929_062015_000000392062_00063_29175_8767.N1	29-SEP-2007 06:20:15	Straylight	38.500	18	24Alp PsA	1.1660	9700.0	77	29175	No
56	GOM_NL__2PRFIN20070929_063246_000000362062_00063_29175_8768.N1	29-SEP-2007 06:32:46	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	29175	No
57	GOM_NL__2PRFIN20070929_063703_000000352062_00063_29175_8769.N1	29-SEP-2007 06:37:03	Bright	34.500	164	44Eta Peg	2.9480	5400.0	69	29175	No
58	GOM_NL__2PRFIN20070929_064634_000000362062_00063_29175_8770.N1	29-SEP-2007 06:46:34	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	29175	No
59	GOM_NL__2PRFIN20070929_065349_000000342062_00063_29175_8771.N1	29-SEP-2007 06:53:49	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	29175	No
60	GOM_NL__2PRFIN20070929_065543_000000362062_00063_29175_8772.N1	29-SEP-2007 06:55:43	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	29175	No
61	GOM_NL__2PRFIN20070929_070141_000000372062_00063_29175_8773.N1	29-SEP-2007 07:01:41	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29175	No
62	GOM_NL__2PRFIN20070929_070311_000000522062_00063_29175_8774.N1	29-SEP-2007 07:03:11	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	29175	No
63	GOM_NL__2PRFIN20070929_070623_000000342062_00063_29175_8775.N1	29-SEP-2007 07:06:23	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	29175	No
64	GOM_NL__2PRFIN20070929_072229_000000452062_00063_29175_8776.N1	29-SEP-2007 07:22:29	Twilight	45.000	48	30Alp Hya	1.9770	4100.0	90	29175	No
65	GOM_NL__2PRFIN20070929_073210_000000442062_00063_29175_8777.N1	29-SEP-2007 07:32:10	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	29175	No
66	GOM_NL__2PRFIN20070929_073528_000000412062_00063_29175_8778.N1	29-SEP-2007 07:35:28	Dark	40.500	46	Del Vel	1.9540	10600.	81	29175	No
67	GOM_NL__2PRFIN20070929_073703_000000402062_00063_29175_8779.N1	29-SEP-2007 07:37:03	Dark	40.000	41	Eps Car	1.8600	4100.0	80	29175	No
68	GOM_NL__2PRFIN20070929_074916_000000392062_00064_29176_8780.N1	29-SEP-2007 07:49:16	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	29176	No
69	GOM_NL__2PRFIN20070929_080051_000000422062_00064_29176_8781.N1	29-SEP-2007 08:00:51	Straylight	42.000	18	24Alp PsA	1.1660	9700.0	84	29176	No
70	GOM_NL__2PRFIN20070929_081322_000000362062_00064_29176_8782.N1	29-SEP-2007 08:13:22	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	29176	No
71	GOM_NL__2PRFIN20070929_081739_000000372062_00064_29176_8783.N1	29-SEP-2007 08:17:39	Bright	36.500	164	44Eta Peg	2.9480	5400.0	73	29176	No
72	GOM_NL__2PRFIN20070929_082710_000000352062_00064_29176_8784.N1	29-SEP-2007 08:27:10	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	29176	No
73	GOM_NL__2PRFIN20070929_083425_000000342062_00064_29176_8785.N1	29-SEP-2007 08:34:25	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	29176	No
74	GOM_NL__2PRFIN20070929_083619_000000362062_00064_29176_8786.N1	29-SEP-2007 08:36:19	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	29176	No
75	GOM_NL__2PRFIN20070929_084217_000000372062_00064_29176_8787.N1	29-SEP-2007 08:42:17	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	29176	No
76	GOM_NL__2PRFIN20070929_084347_000000342062_00064_29176_8788.N1	29-SEP-2007 08:43:47	Bright	34.000	82	48Bet UMa	2.3650	10600.	68	29176	No
77	GOM_NL__2PRFIN20070929_084659_000000522062_00064_29176_8789.N1	29-SEP-2007 08:46:59	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29176	No
78	GOM_NL__2PRFIN20070929_090306_000000452062_00064_29176_8790.N1	29-SEP-2007 09:03:06	Twilight	44.500	48	30Alp Hya	1.9770	4100.0	89	29176	No
79	GOM_NL__2PRFIN20070929_091246_000000472062_00064_29176_8791.N1	29-SEP-2007 09:12:46	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	29176	No
80	GOM_NL__2PRFIN20070929_091605_000000422062_00064_29176_8792.N1	29-SEP-2007 09:16:05	Dark	41.500	46	Del Vel	1.9540	10600.	83	29176	No
81	GOM_NL__2PRFIN20070929_091740_000000442062_00064_29176_8793.N1	29-SEP-2007 09:17:40	Dark	43.500	41	Eps Car	1.8600	4100.0	87	29176	No
82	GOM_NL__2PRFIN20070929_092952_000000412062_00065_29177_8790.N1	29-SEP-2007 09:29:52	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	29177	No
83	GOM_NL__2PRFIN20070929_094127_000000442062_00065_29177_8791.N1	29-SEP-2007 09:41:27	Straylight	43.500	18	24Alp PsA	1.1660	9700.0	87	29177	No
84	GOM_NL__2PRFIN20070929_095358_000000372062_00065_29177_8792.N1	29-SEP-2007 09:53:58	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	29177	No
85	GOM_NL__2PRFIN20070929_095815_000000342062_00065_29177_8793.N1	29-SEP-2007 09:58:15	Bright	34.000	164	44Eta Peg	2.9480	5400.0	68	29177	No
86	GOM_NL__2PRFIN20070929_100746_000000362062_00065_29177_8794.N1	29-SEP-2007 10:07:46	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	29177	No
87	GOM_NL__2PRFIN20070929_101500_000000372062_00065_29177_8795.N1	29-SEP-2007 10:15:00	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	29177	No
88	GOM_NL__2PRFIN20070929_101655_000000372062_00065_29177_8796.N1	29-SEP-2007 10:16:55	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	29177	No
89	GOM_NL__2PRFIN20070929_102253_000000362062_00065_29177_8797.N1	29-SEP-2007 10:22:53	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	29177	No
90	GOM_NL__2PRFIN20070929_102423_000000342062_00065_29177_8798.N1	29-SEP-2007 10:24:23	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	29177	No
91	GOM_NL__2PRFIN20070929_102735_000000332062_00065_29177_8799.N1	29-SEP-2007 10:27:35	Bright	32.500	174	52Psi UMa	3.0040	4400.0	65	29177	No
92	GOM_NL__2PRFIN20070929_104342_000000472062_00065_29177_8800.N1	29-SEP-2007 10:43:42	Twilight	47.000	48	30Alp Hya	1.9770	4100.0	94	29177	No
93	GOM_NL__2PRFIN20070929_105323_000000422062_00065_29177_8801.N1	29-SEP-2007 10:53:23	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	29177	No
94	GOM_NL__2PRFIN20070929_105641_000000432062_00065_29177_8802.N1	29-SEP-2007 10:56:41	Dark	42.500	46	Del Vel	1.9540	10600.	85	29177	No
95	GOM_NL__2PRFIN20070929_105816_000000472062_00065_29177_8803.N1	29-SEP-2007 10:58:16	Dark	47.000	41	Eps Car	1.8600	4100.0	94	29177	No
96	GOM_NL__2PRFIN20070929_111028_000000402062_00066_29178_8809.N1	29-SEP-2007 11:10:28	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	29178	No
97	GOM_NL__2PRFIN20070929_112203_000000412062_00066_29178_8810.N1	29-SEP-2007 11:22:03	Straylight	40.500	18	24Alp PsA	1.1660	9700.0	81	29178	No
98	GOM_NL__2PRFIN20070929_113434_000000352062_00066_29178_8811.N1	29-SEP-2007 11:34:34	Bright	35.000	90	54Alp Peg	2.4870	11000.	70	29178	No
99	GOM_NL__2PRFIN20070929_113851_000000352062_00066_29178_8812.N1	29-SEP-2007 11:38:51	Bright	34.500	164	44Eta Peg	2.9480	5400.0	69	29178	No
100	GOM_NL__2PRFIN20070929_114822_000000372062_00066_29178_8813.N1	29-SEP-2007 11:48:22	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	29178	No
101	GOM_NL__2PRFIN20070929_115536_000000372062_00066_29178_8814.N1	29-SEP-2007 11:55:36	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	29178	No

102	GOM_NL__2PRFIN20070929_115731_000000372062_00066_29178_8815.N1	29-SEP-2007 11:57:31	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	29178	No
103	GOM_NL__2PRFIN20070929_120329_000000482062_00066_29178_8816.N1	29-SEP-2007 12:03:29	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	29178	No
104	GOM_NL__2PRFIN20070929_120459_000000352062_00066_29178_8817.N1	29-SEP-2007 12:04:59	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	29178	No
105	GOM_NL__2PRFIN20070929_120811_000000332062_00066_29178_8818.N1	29-SEP-2007 12:08:11	Bright	32.500	174	52Psi UMa	3.0040	4400.0	65	29178	No
106	GOM_NL__2PRFIN20070929_122418_000000462062_00066_29178_8819.N1	29-SEP-2007 12:24:18	Twilight	46.000	48	30Alp Hya	1.9770	4100.0	92	29178	No
107	GOM_NL__2PRFIN20070929_123359_000000442062_00066_29178_8820.N1	29-SEP-2007 12:33:59	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	29178	No
108	GOM_NL__2PRFIN20070929_123717_000000392062_00066_29178_8821.N1	29-SEP-2007 12:37:17	Dark	39.000	46	Del Vel	1.9540	10600.	78	29178	No
109	GOM_NL__2PRFIN20070929_123852_000000462062_00066_29178_8822.N1	29-SEP-2007 12:38:52	Dark	46.000	41	Eps Car	1.8600	4100.0	92	29178	No

### 3. Quality information per product

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

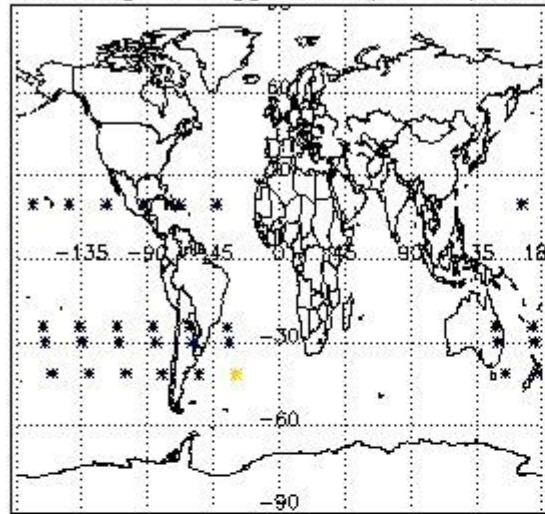
#### 3.1 Plot quality information per product (time dependant)



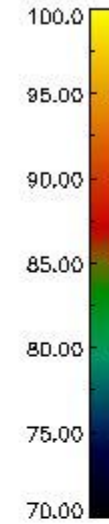
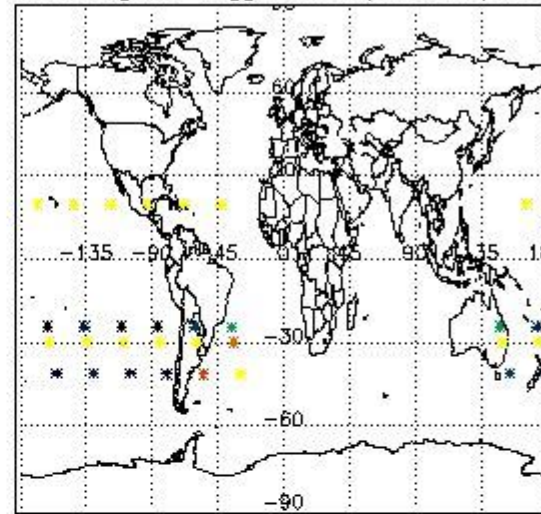
#### 3.2 Plot quality information per product (world map)



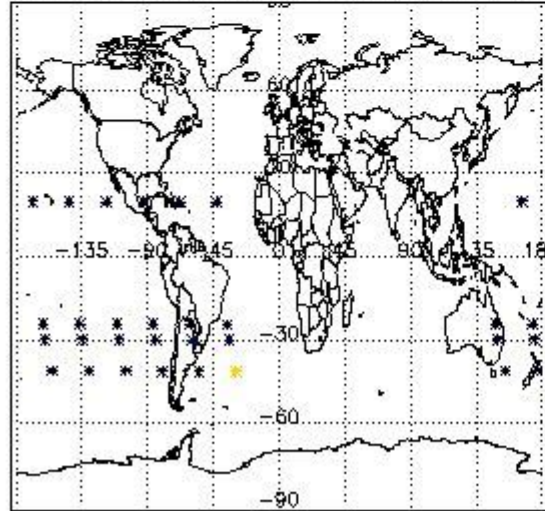
Percentage of flagged data per O3 profile



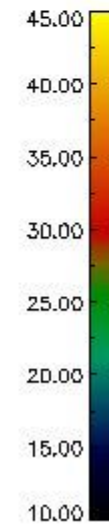
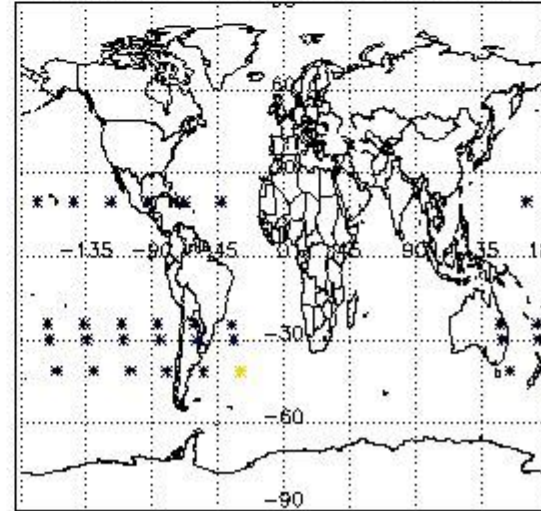
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



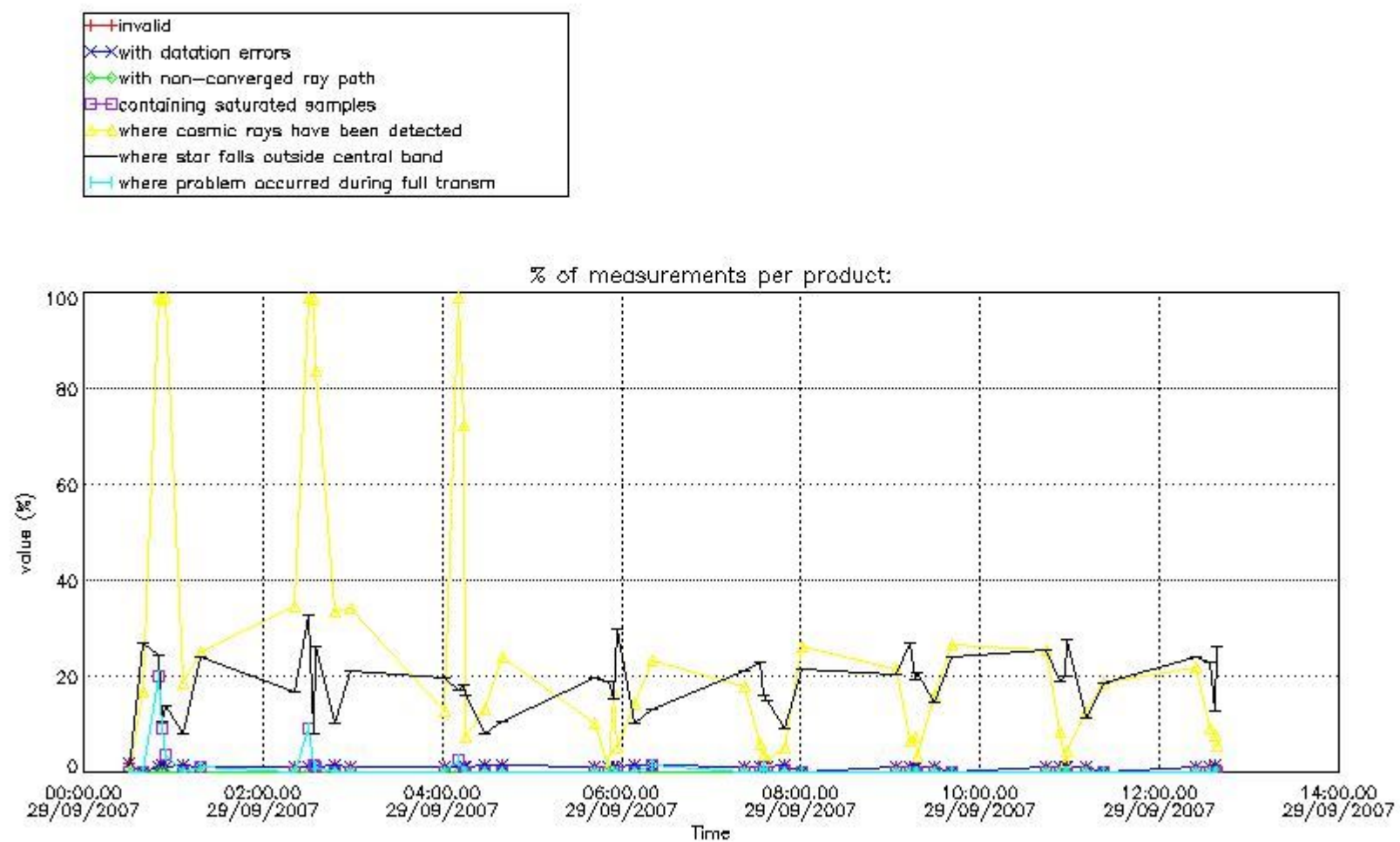
#### 4. Level 1 quality information per product

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

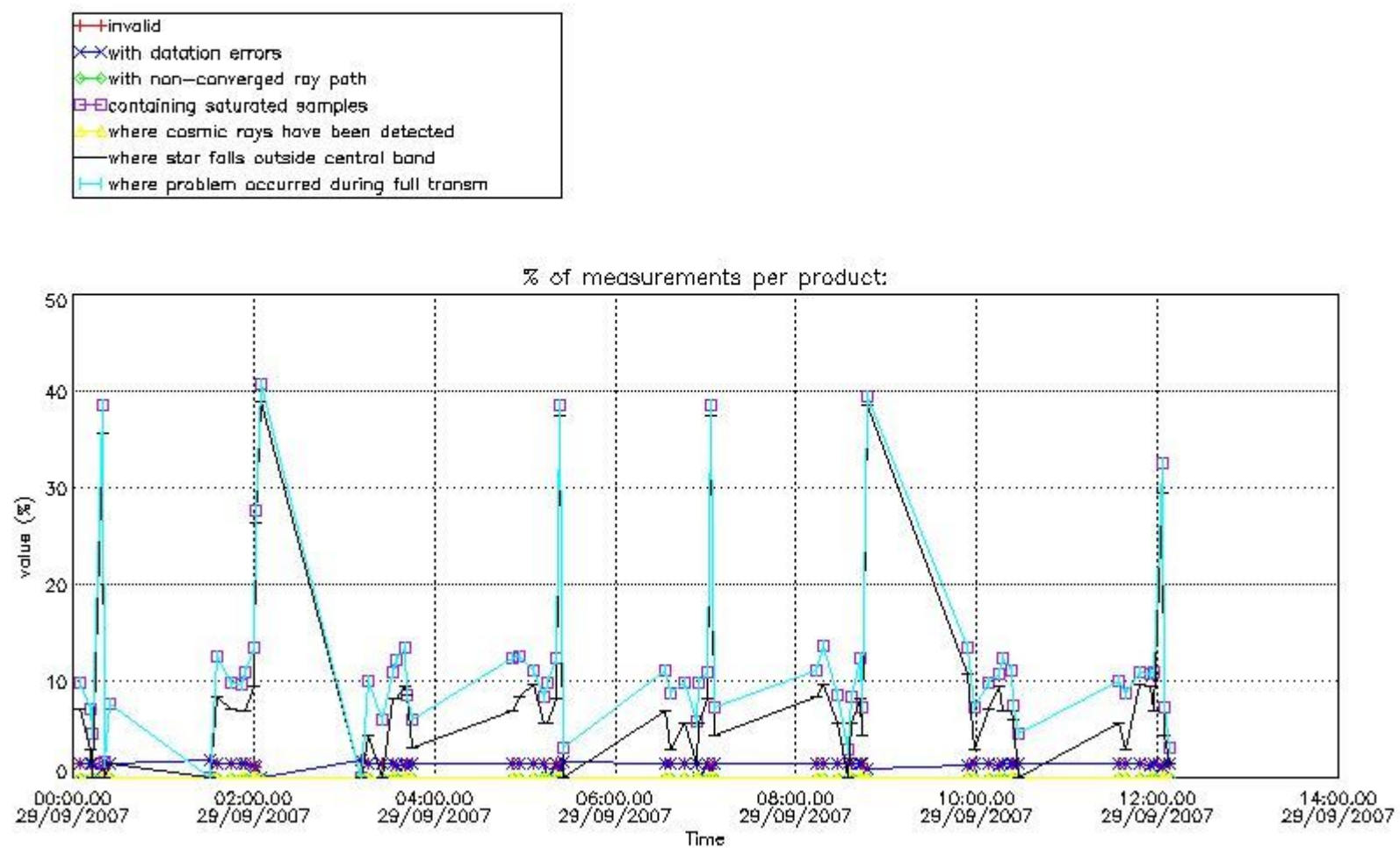
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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



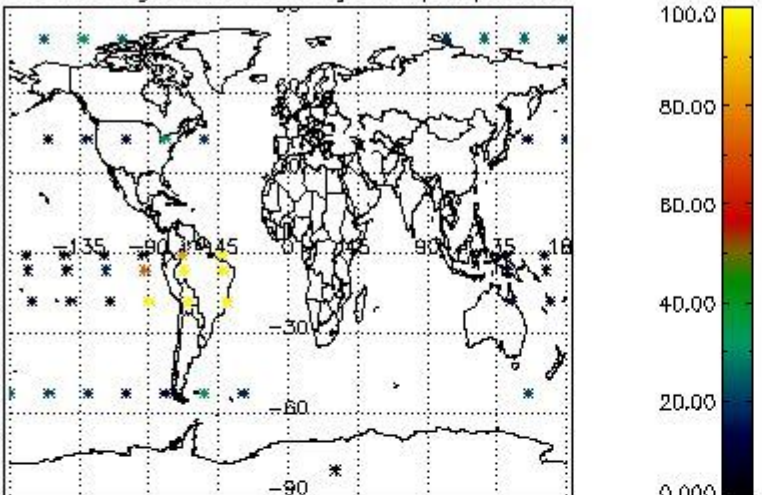


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

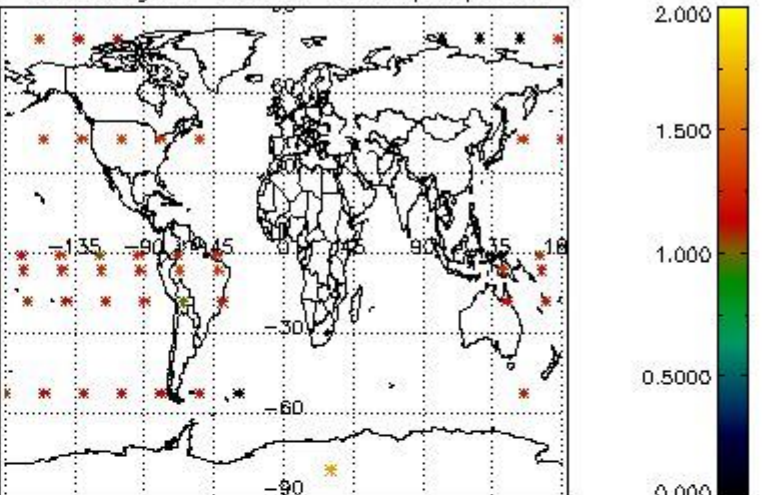


4.2 Plot quality information per product coming from level 1b processing (world map)  
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

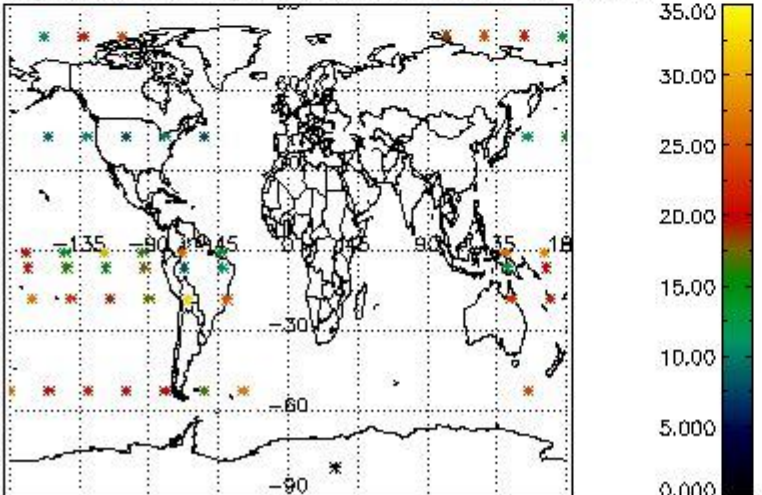
Percentage of cosmic ray hits per profile



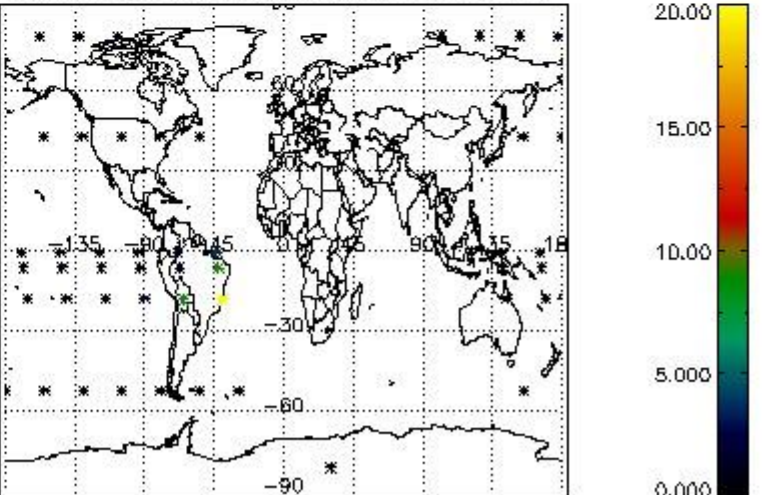
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

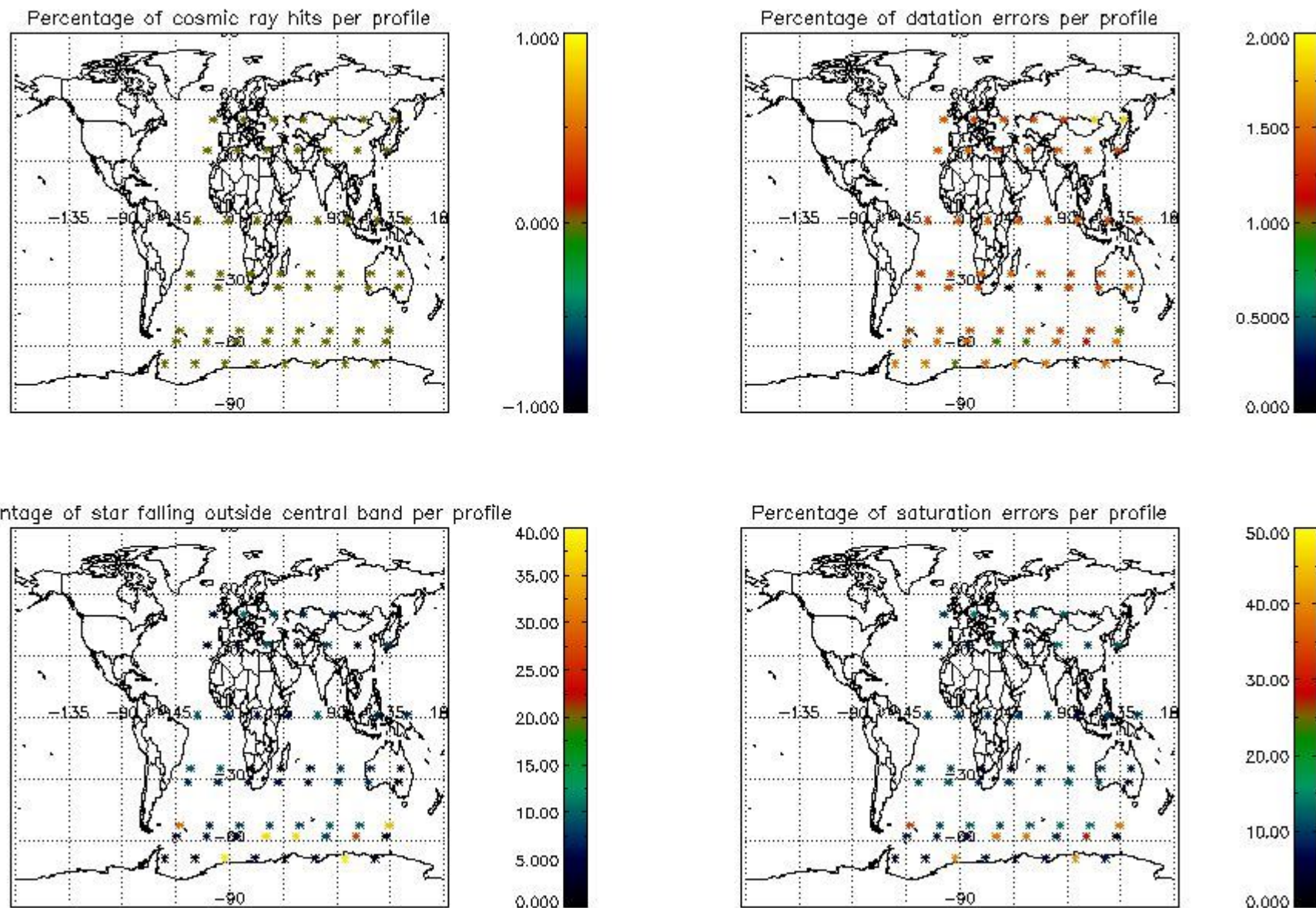


Percentage of saturation errors per profile



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





## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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

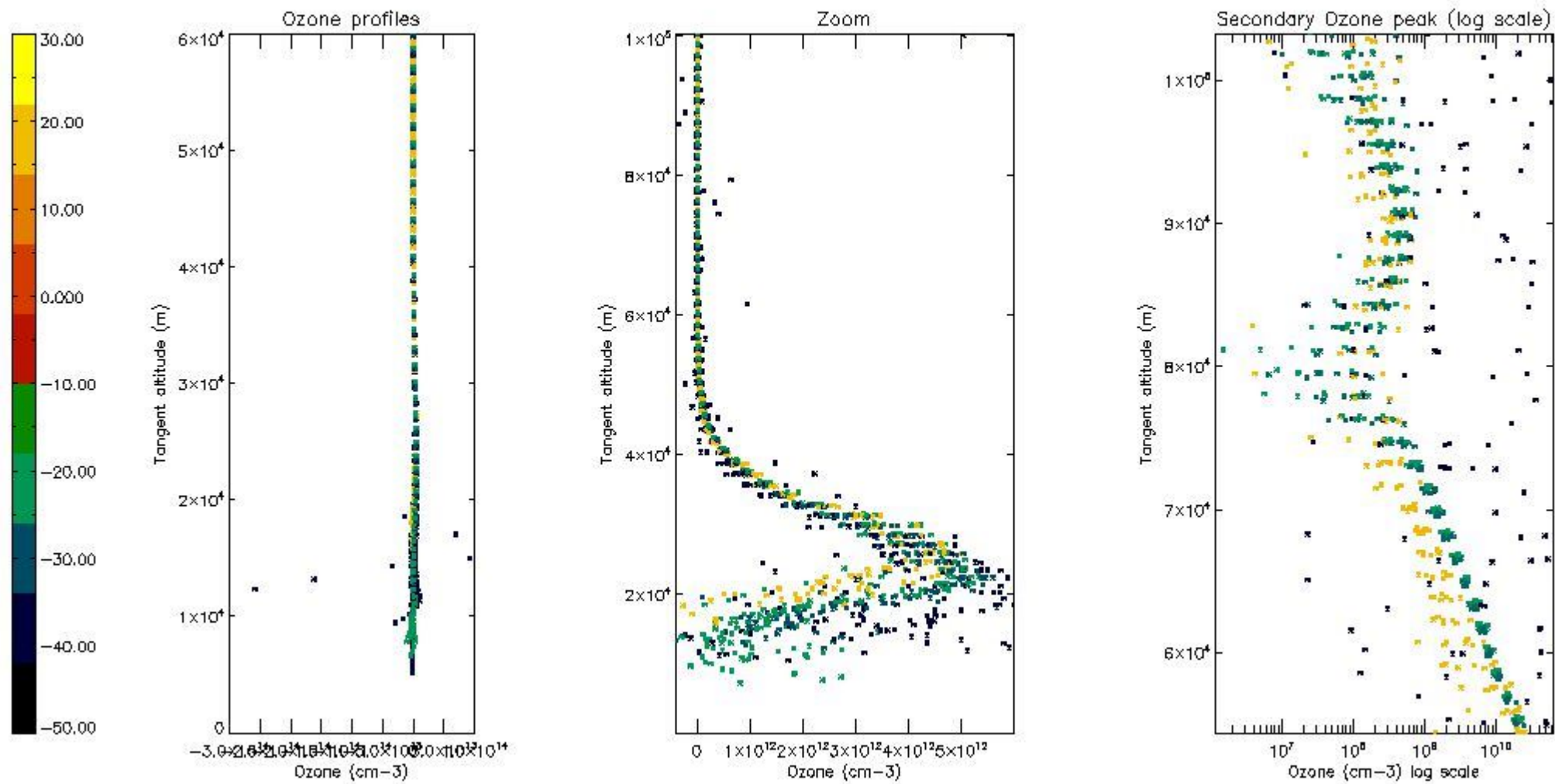
Criteria	% of total production
All STD	31
STD < 20	13



STD < 10	9
STD < 5	2

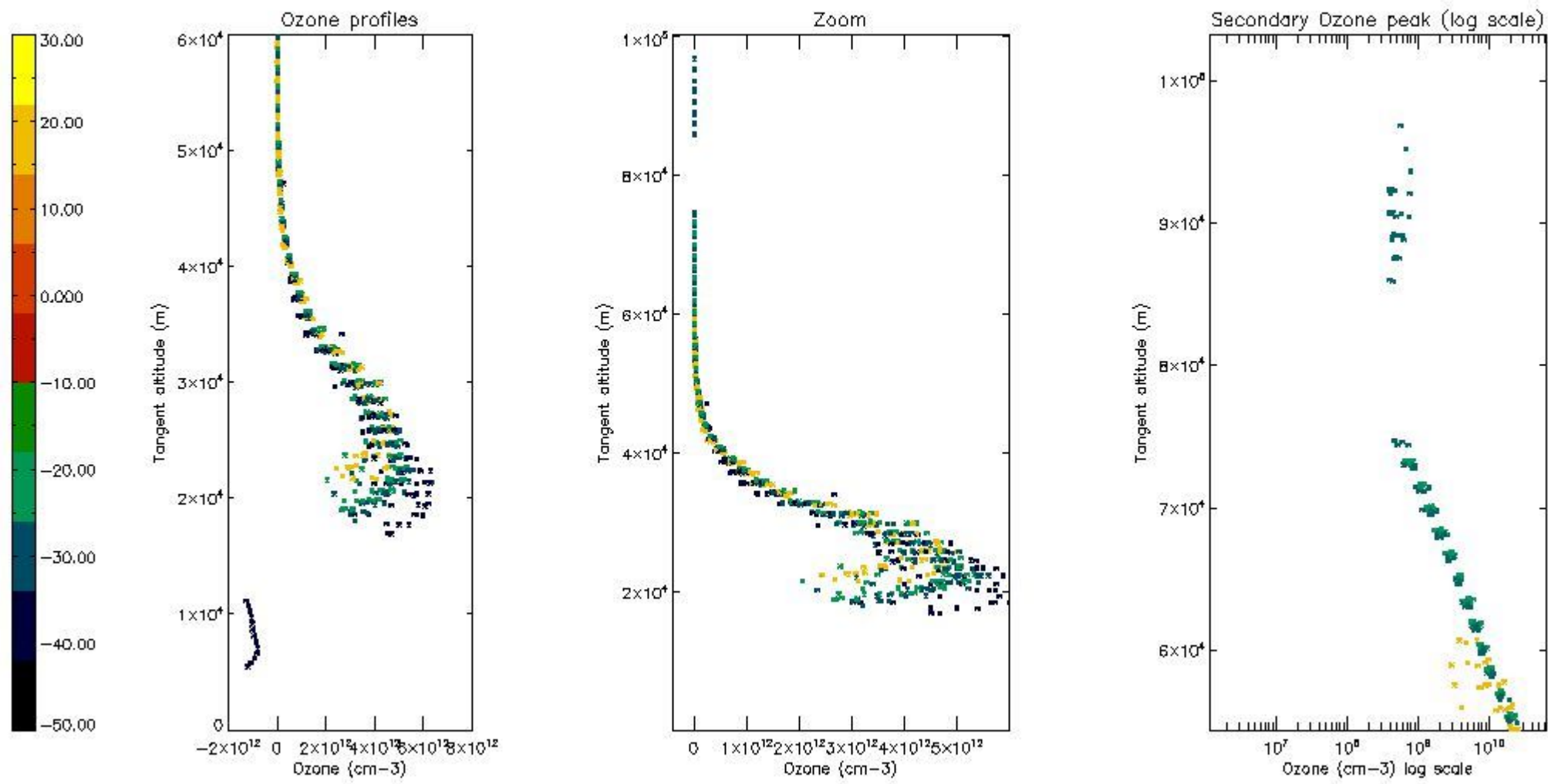
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



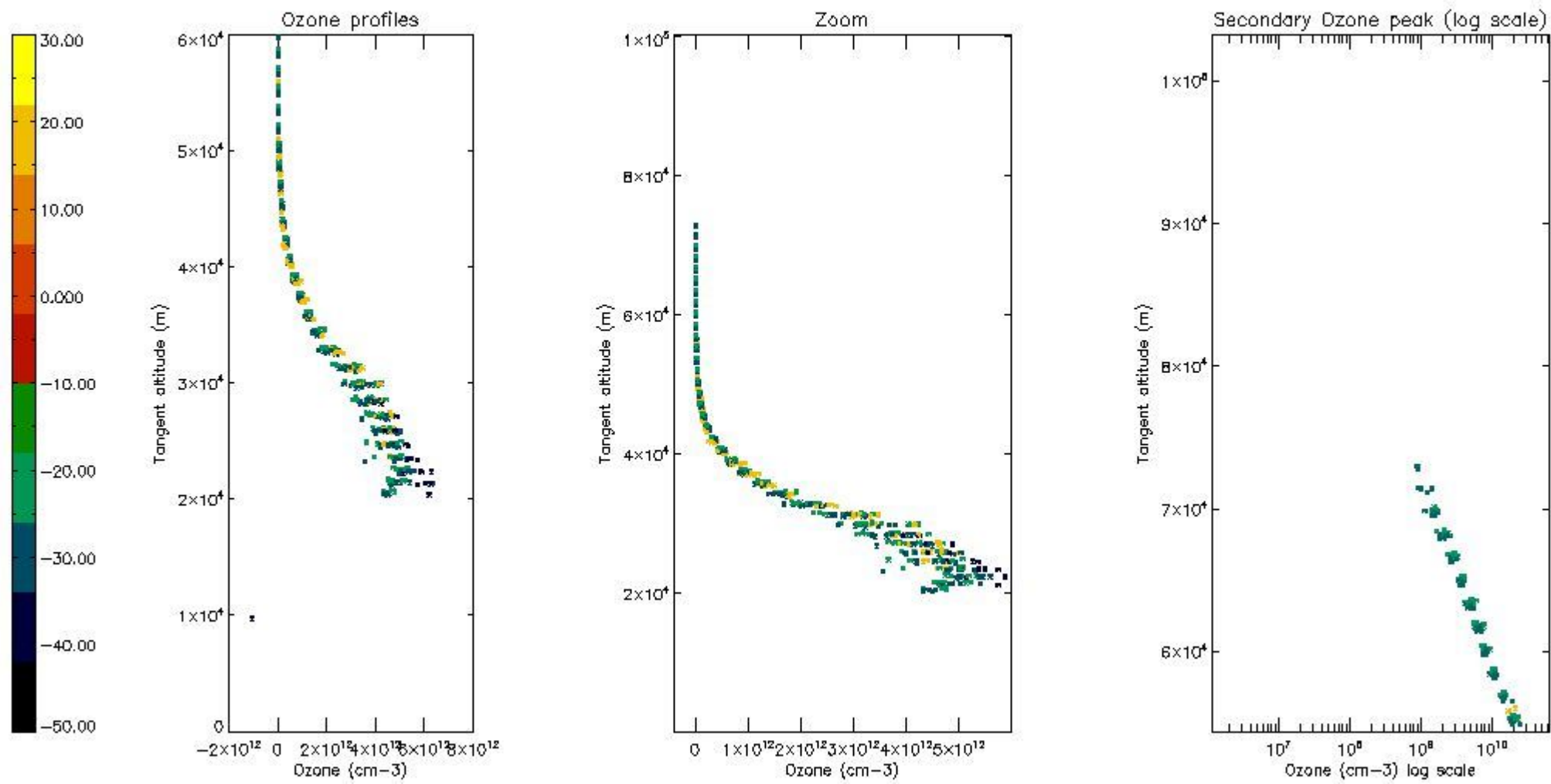
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



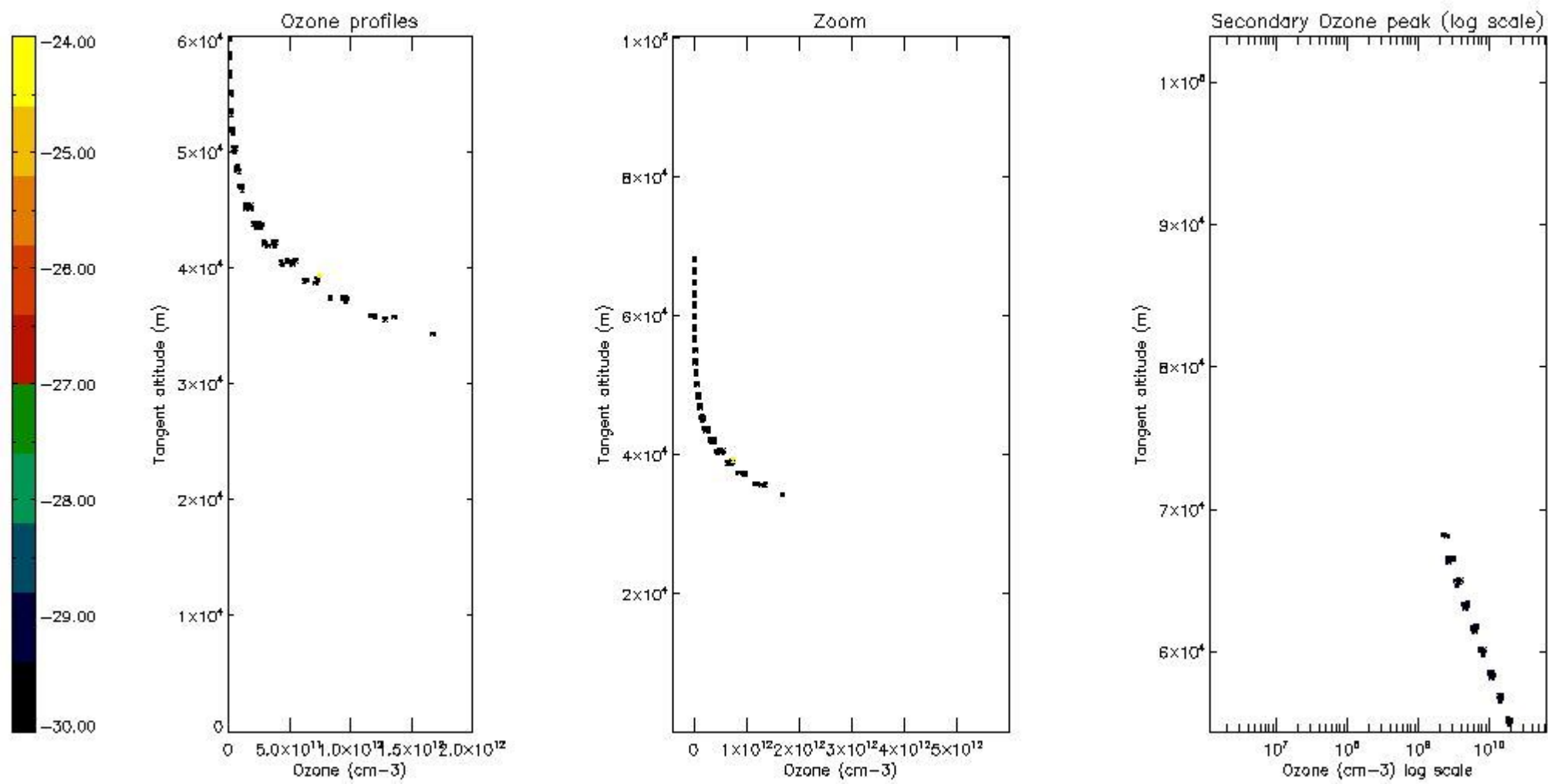
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



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

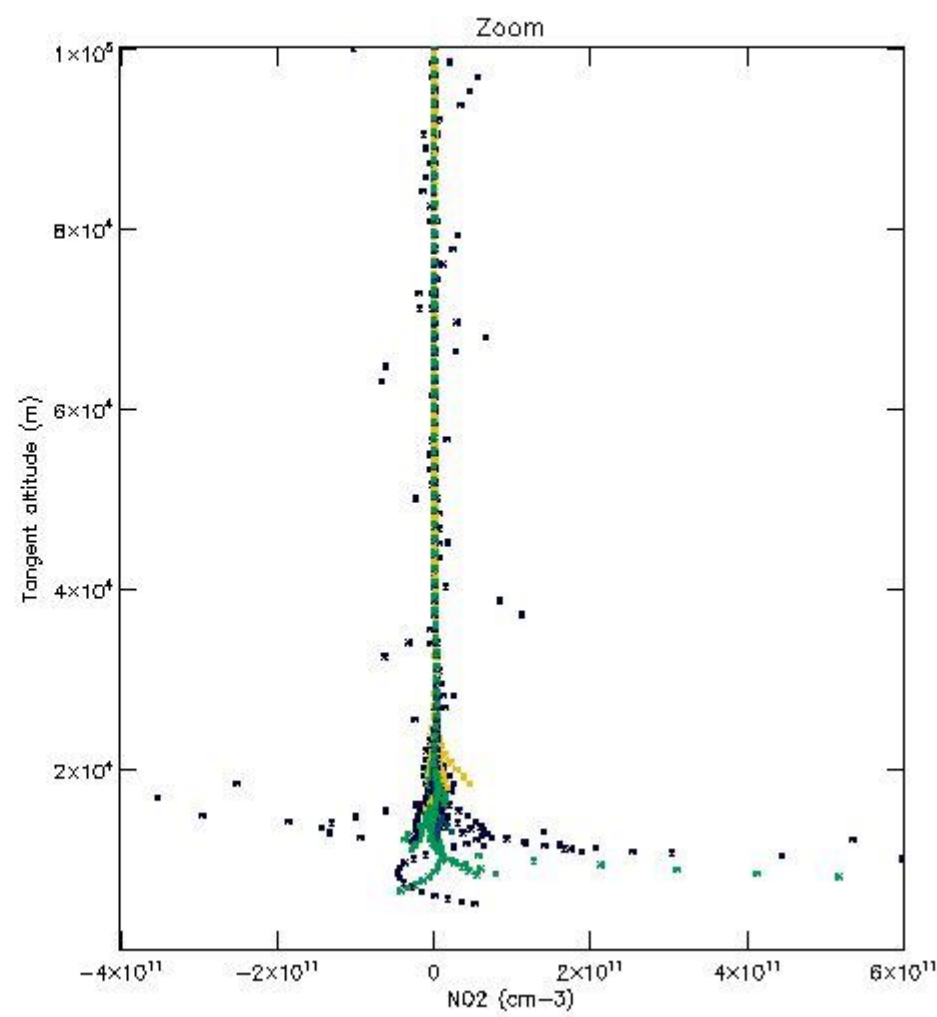
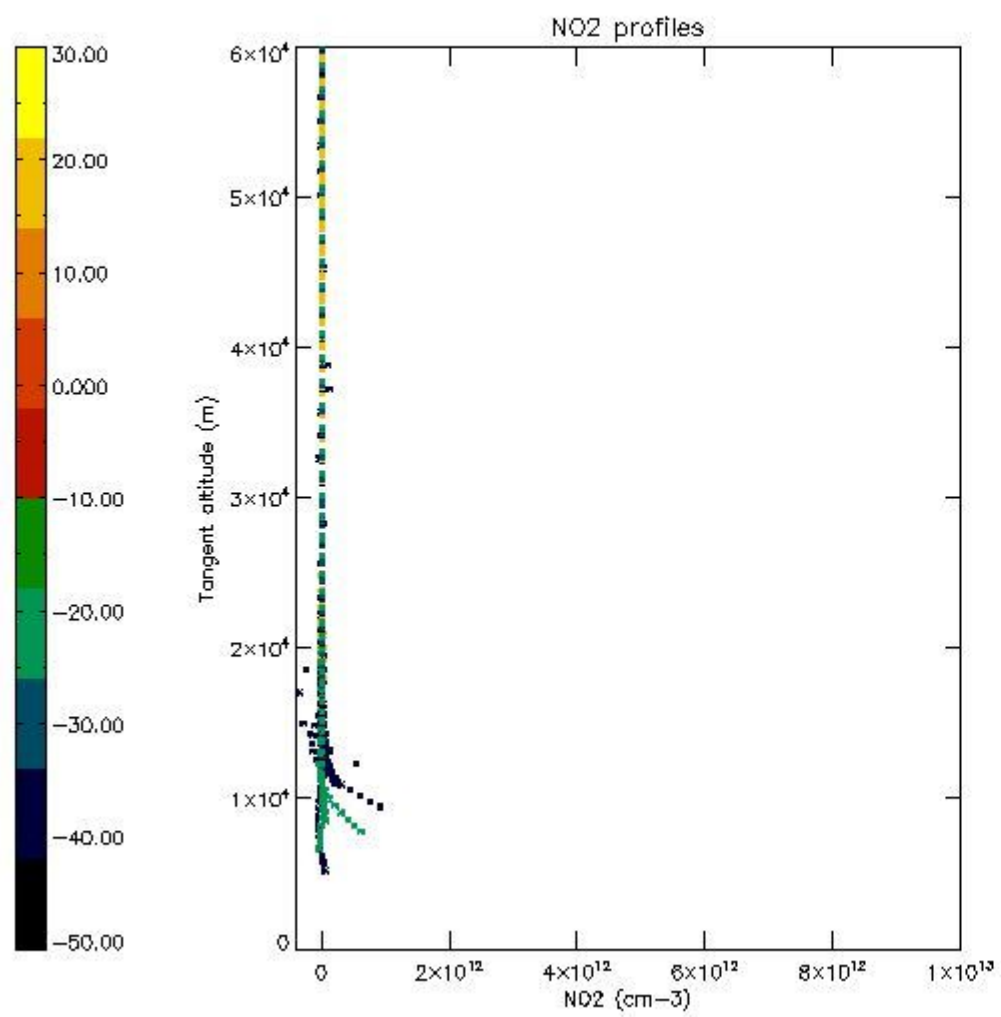
The colorbar represents the latitude.



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

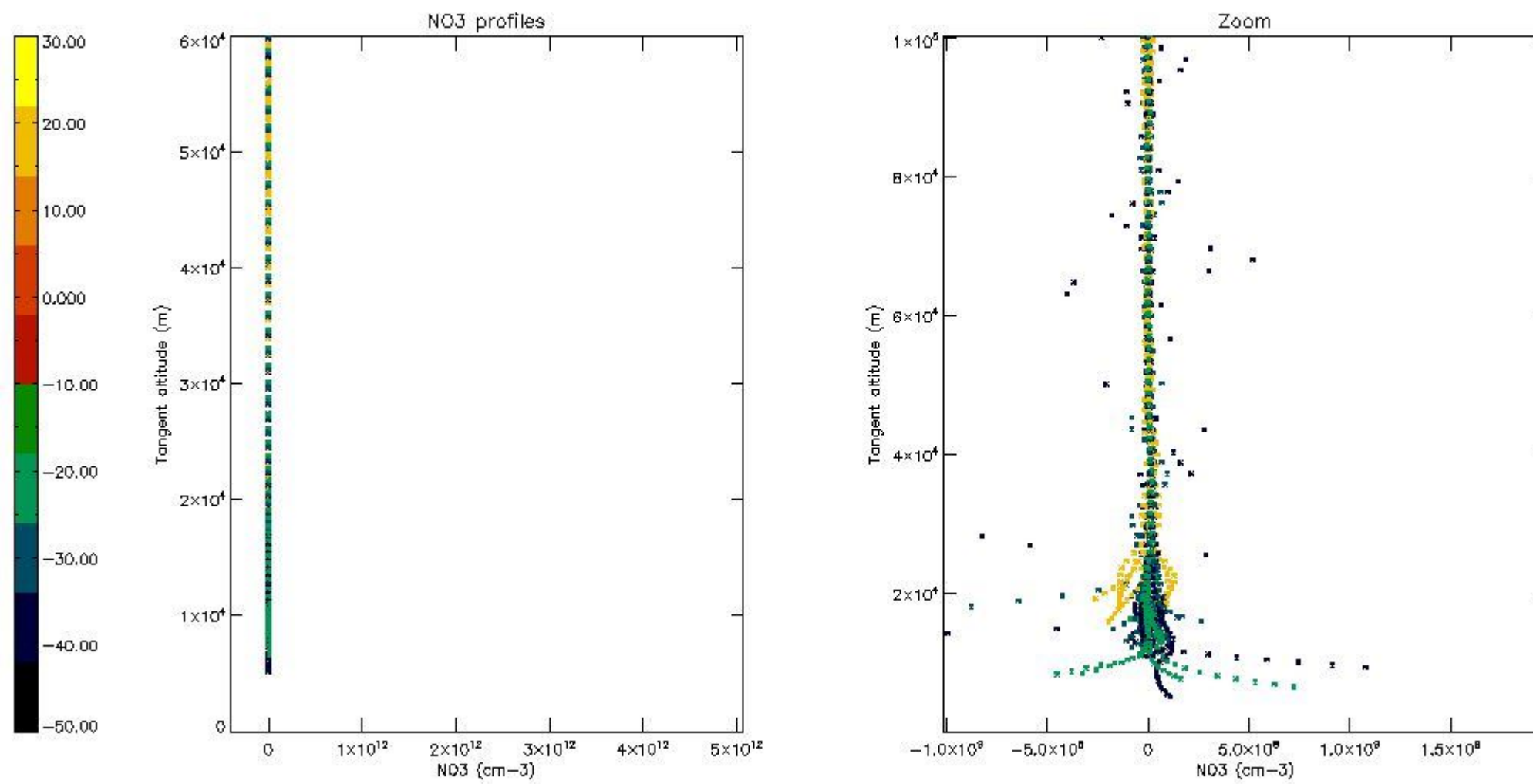
The colorbar represents the latitude.





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

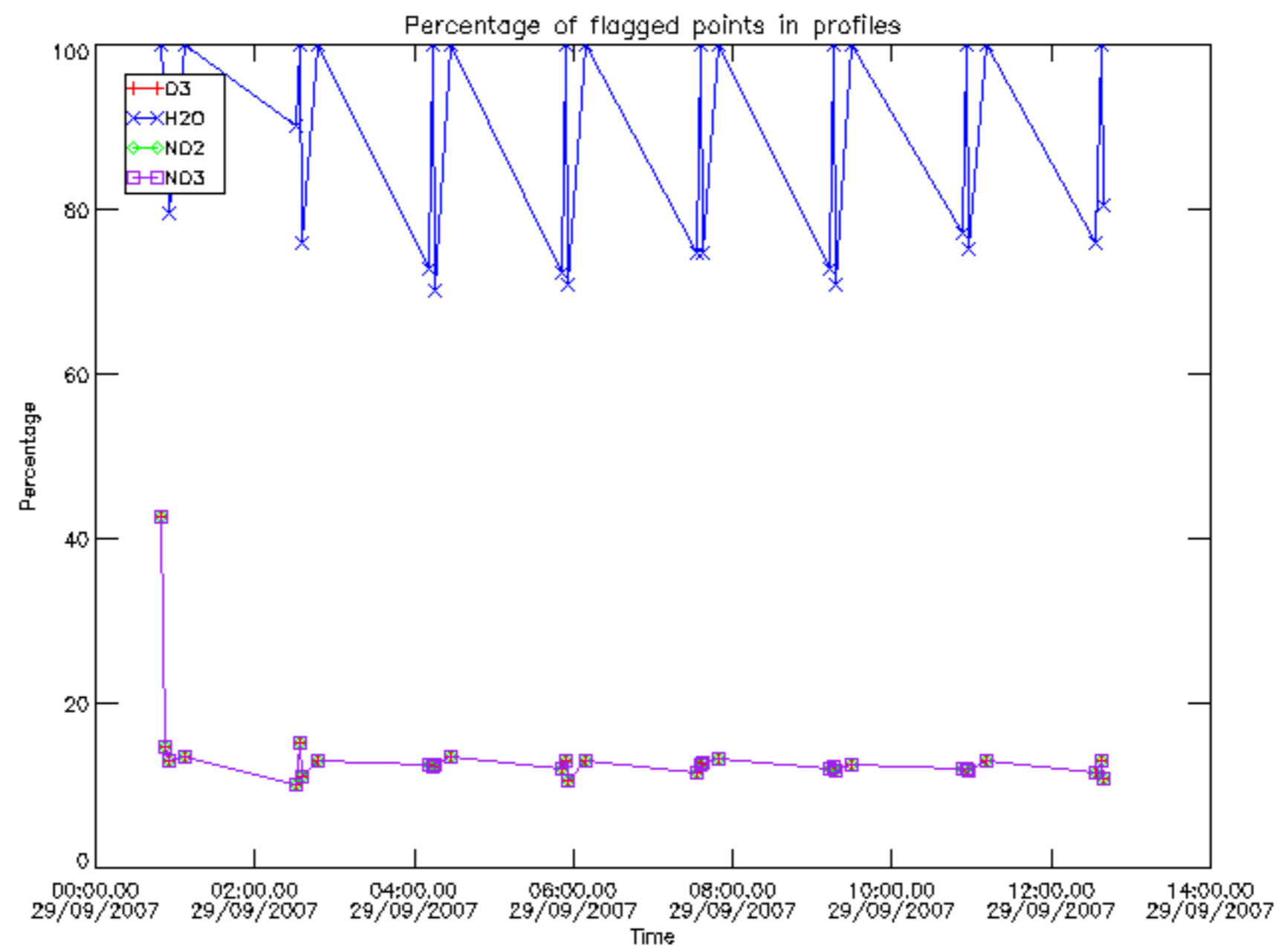
The colorbar represents the latitude.



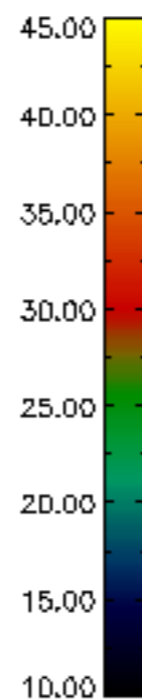
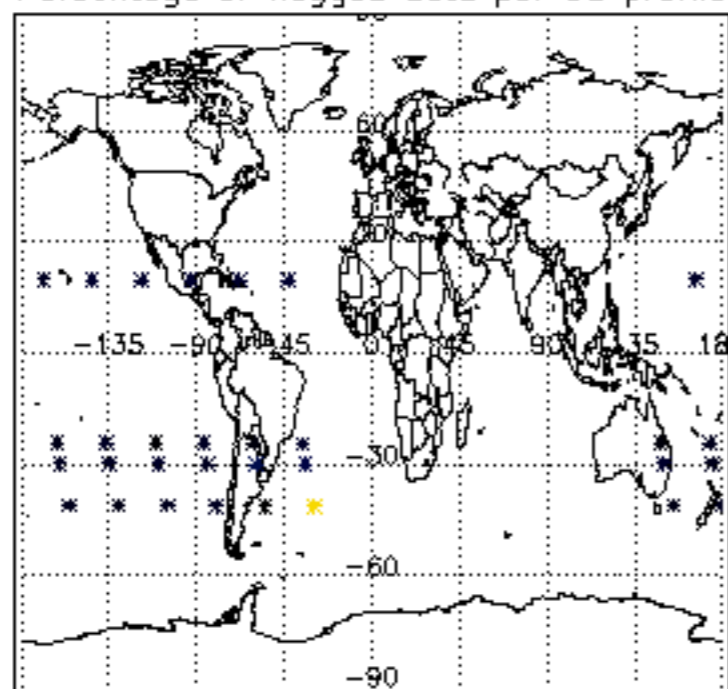
## 6. Auxiliary Data Files used for the production reported in section 2

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.

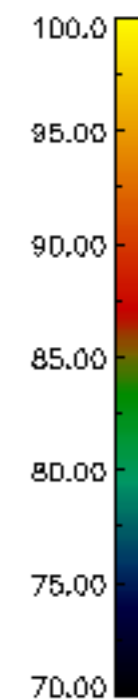
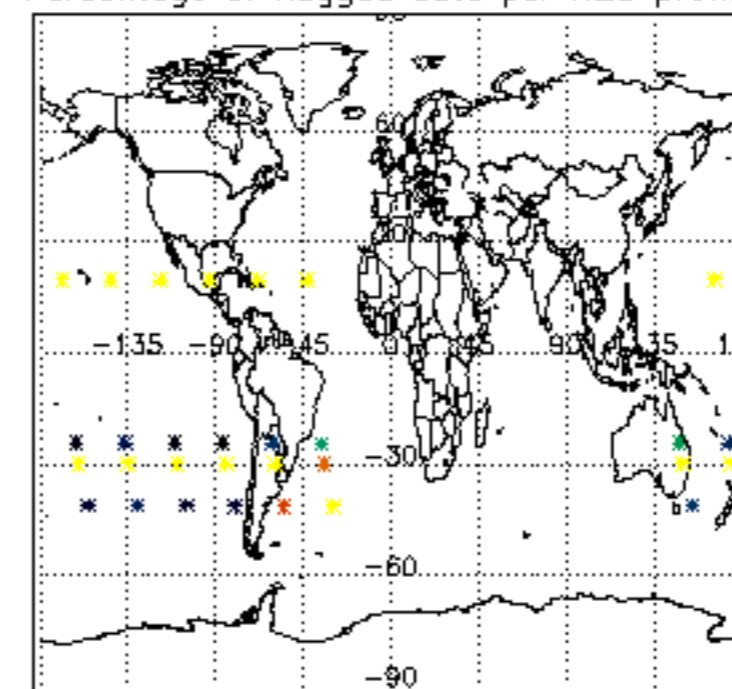
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	29-SEP-2007 00:04:09
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	29-SEP-2007 00:04:09
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	29-SEP-2007 00:04:09



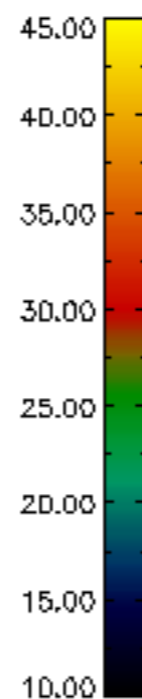
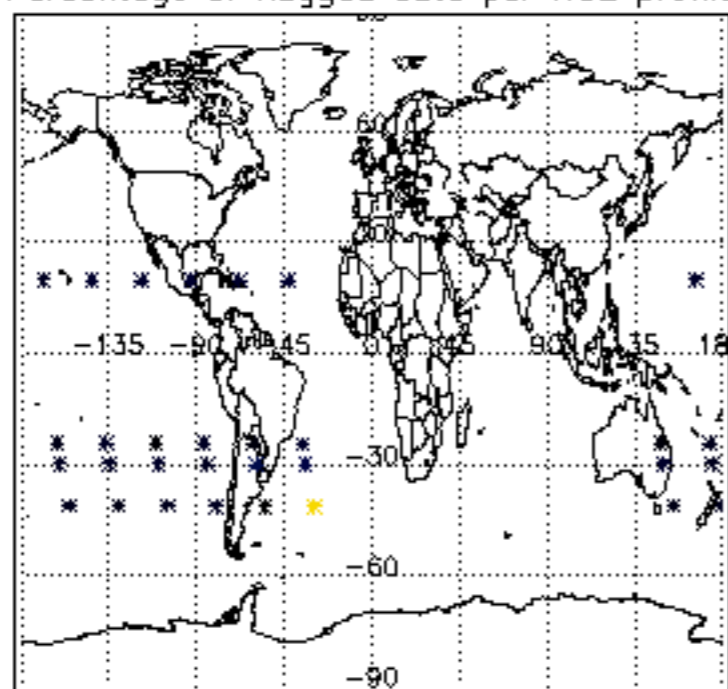
Percentage of flagged data per D3 profile



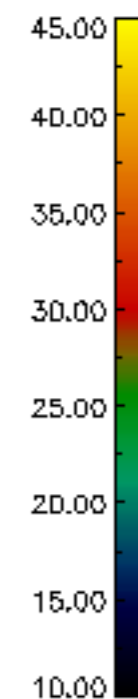
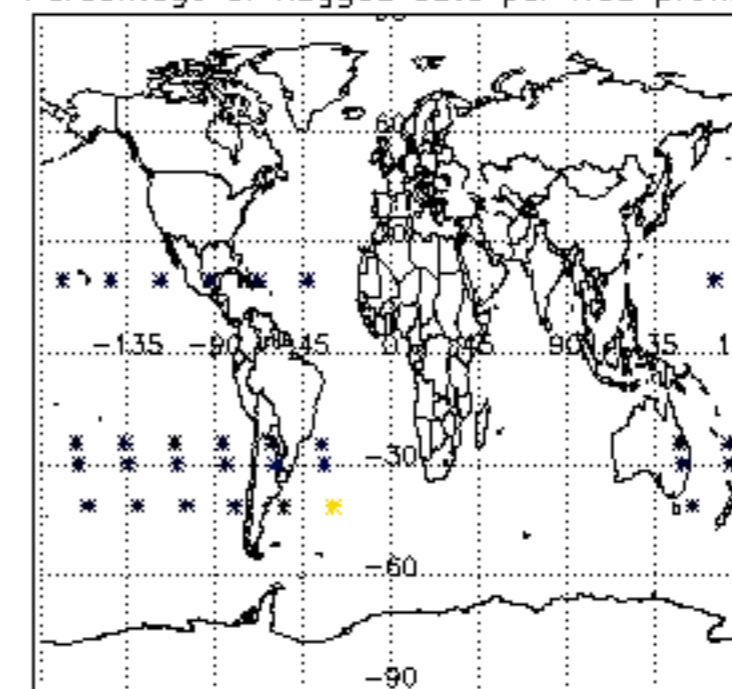
Percentage of flagged data per H2O profile



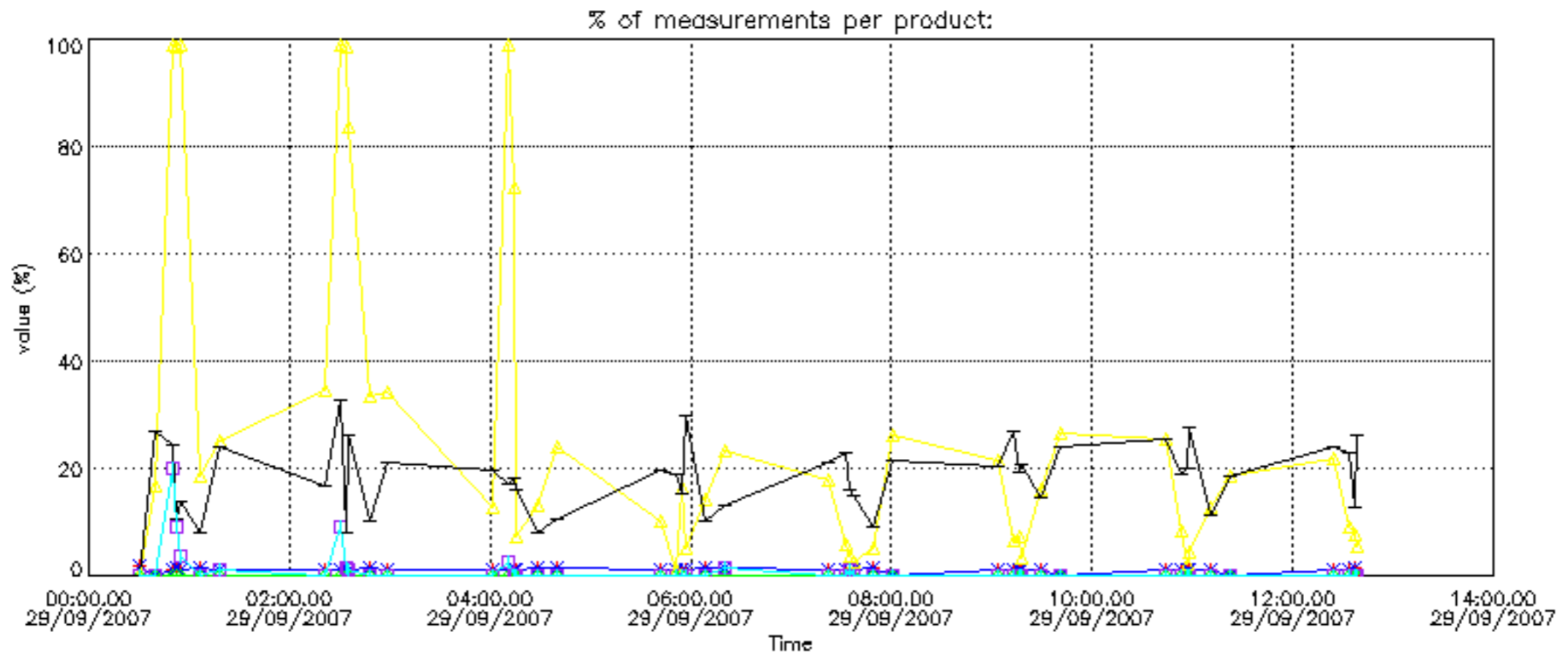
Percentage of flagged data per NO2 profile

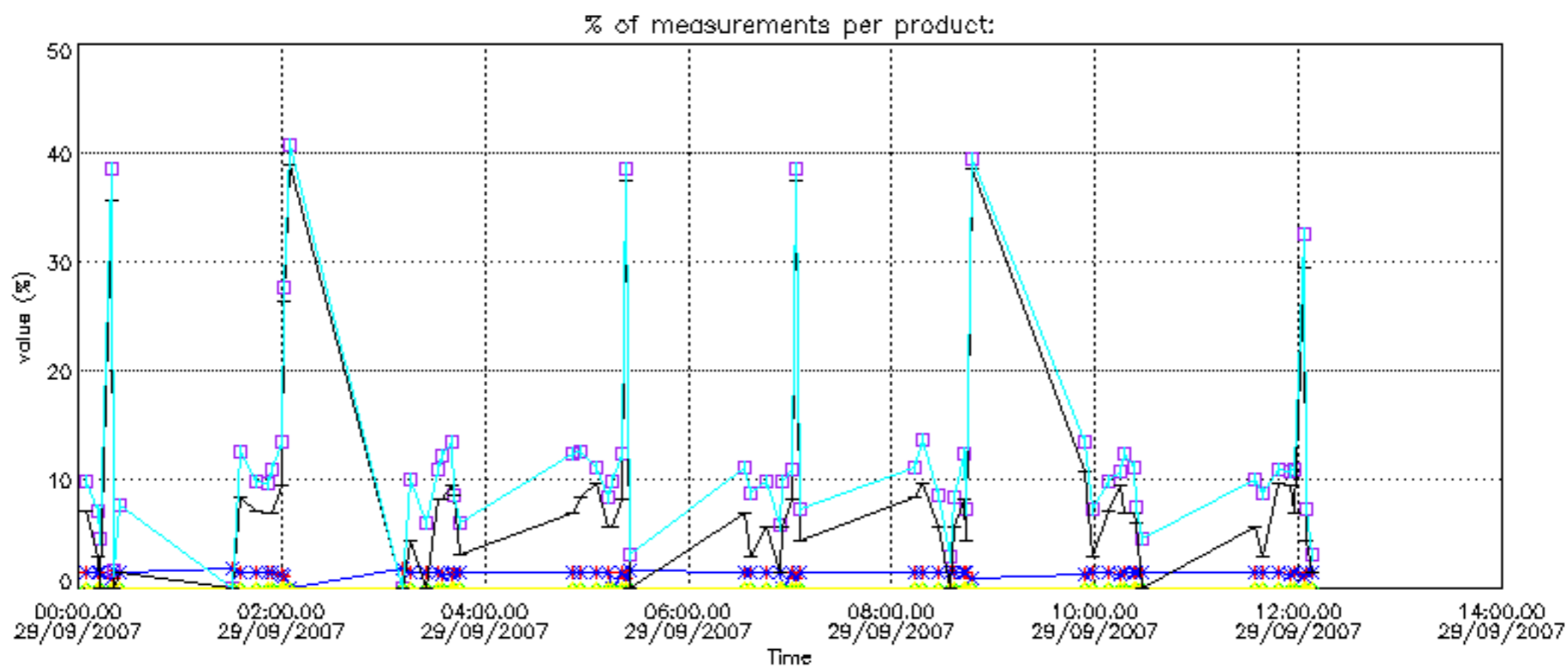


Percentage of flagged data per NO3 profile

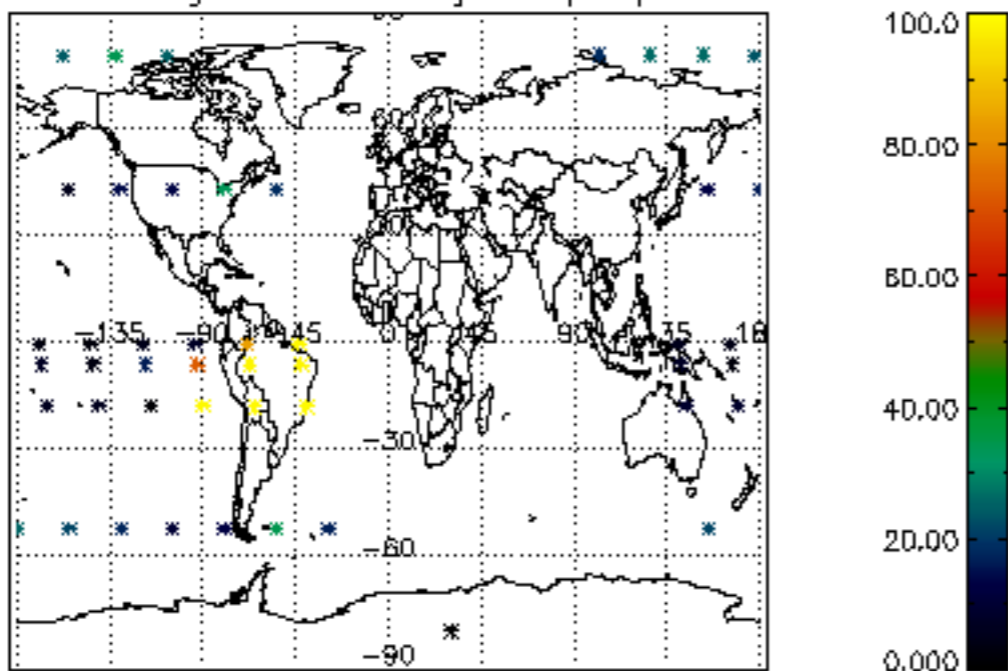




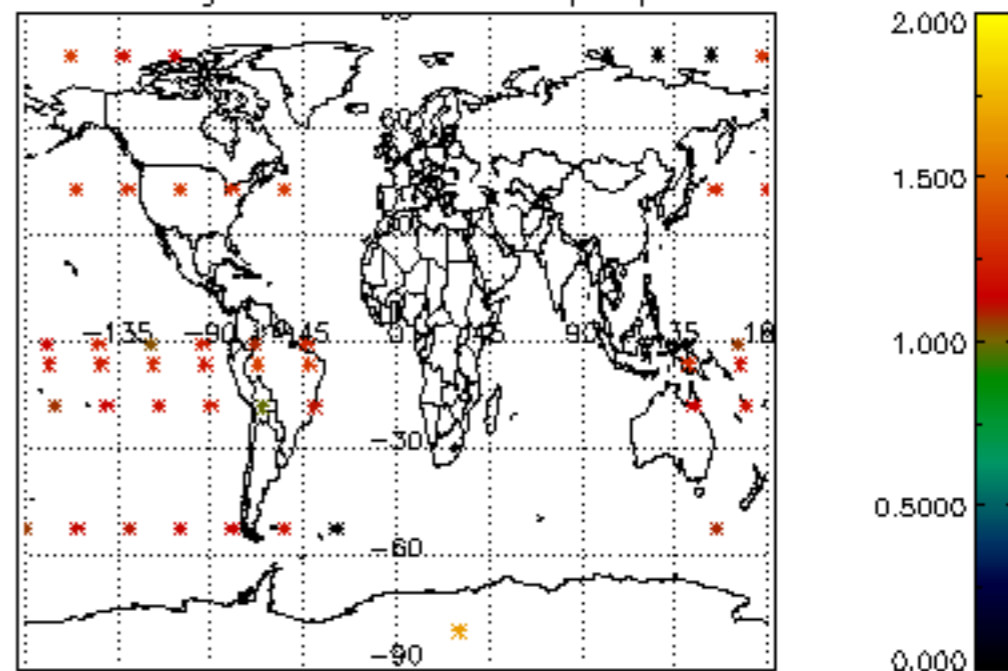




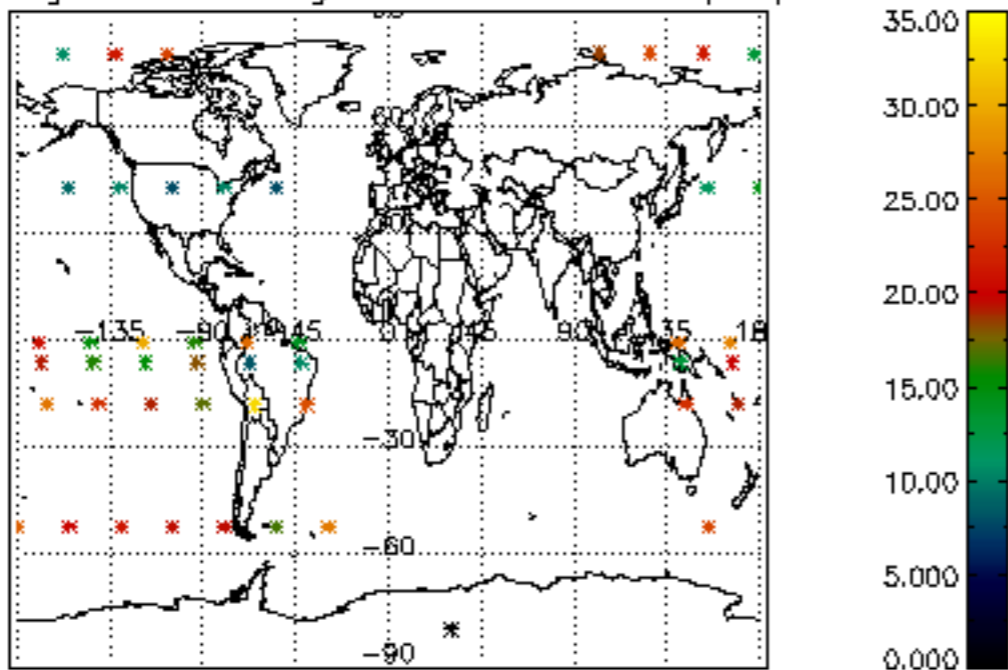
Percentage of cosmic ray hits per profile



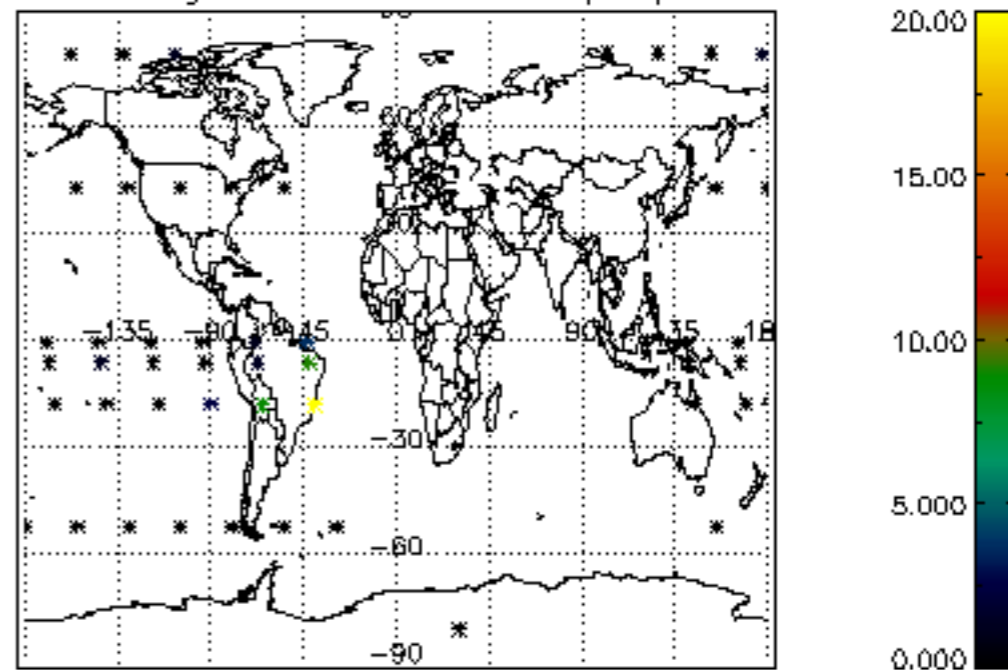
Percentage of datation errors per profile



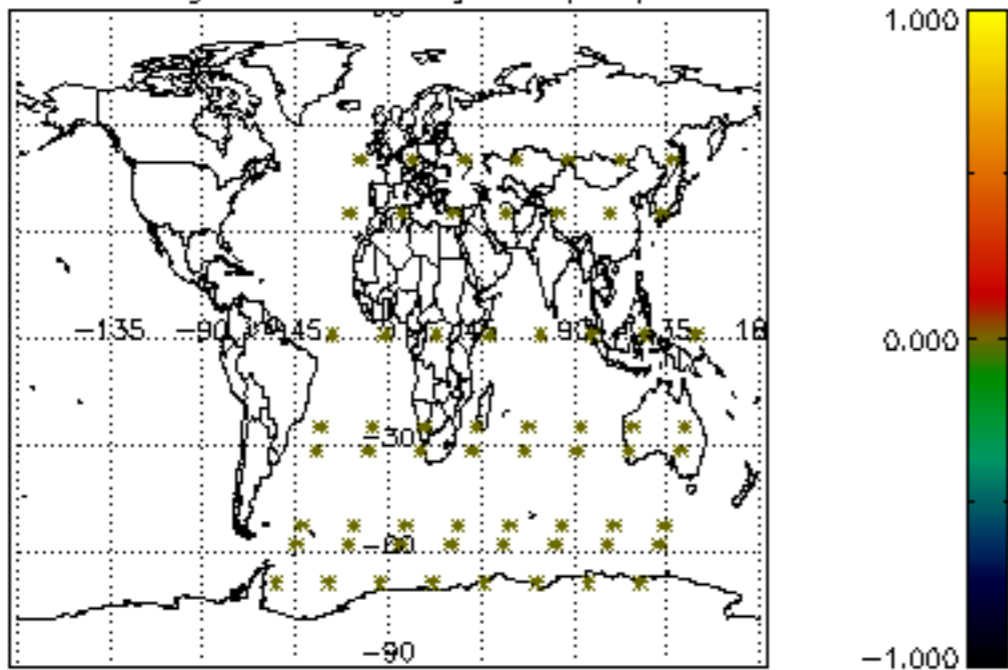
Percentage of star falling outside central band per profile



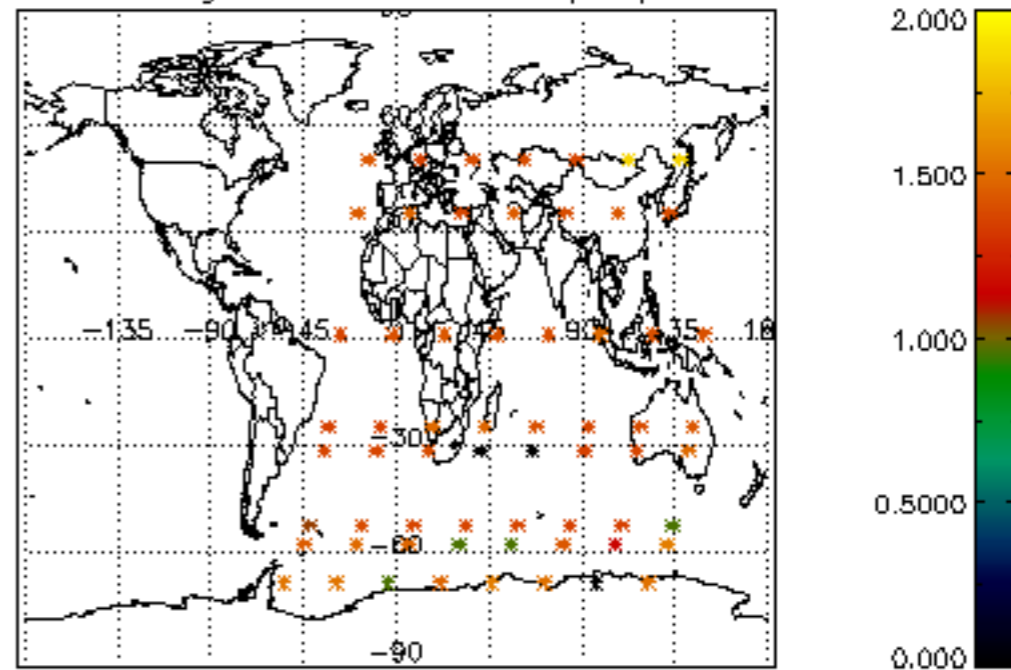
Percentage of saturation errors per profile



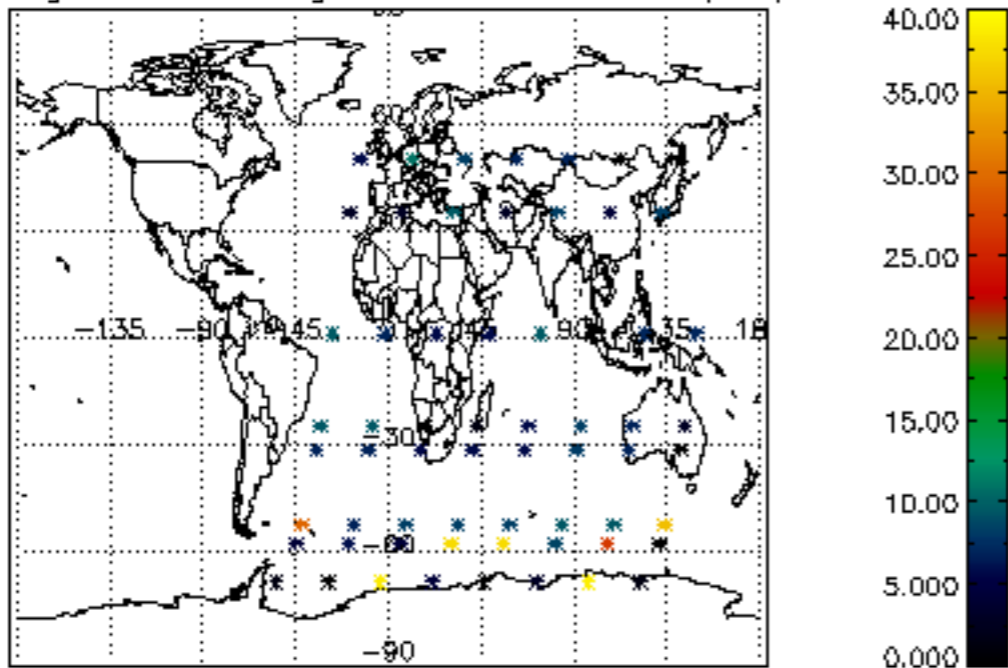
Percentage of cosmic ray hits per profile



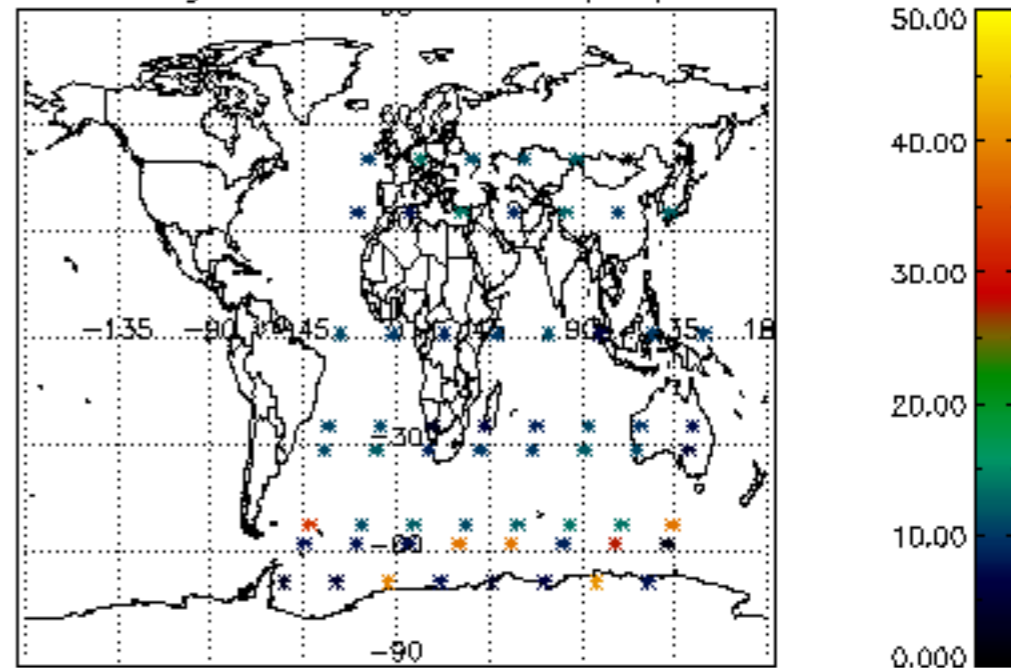
Percentage of datation errors per profile



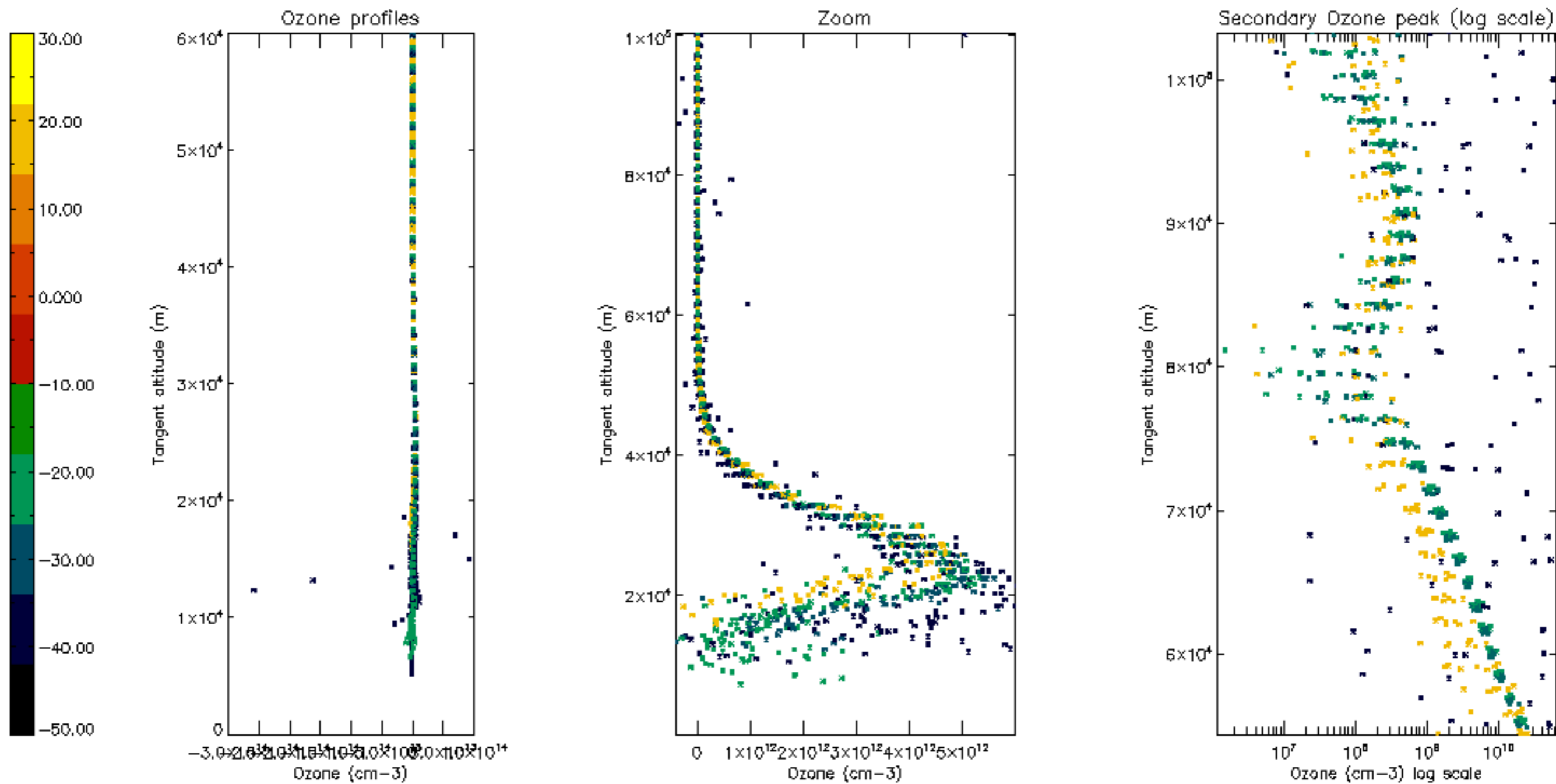
Percentage of star falling outside central band per profile

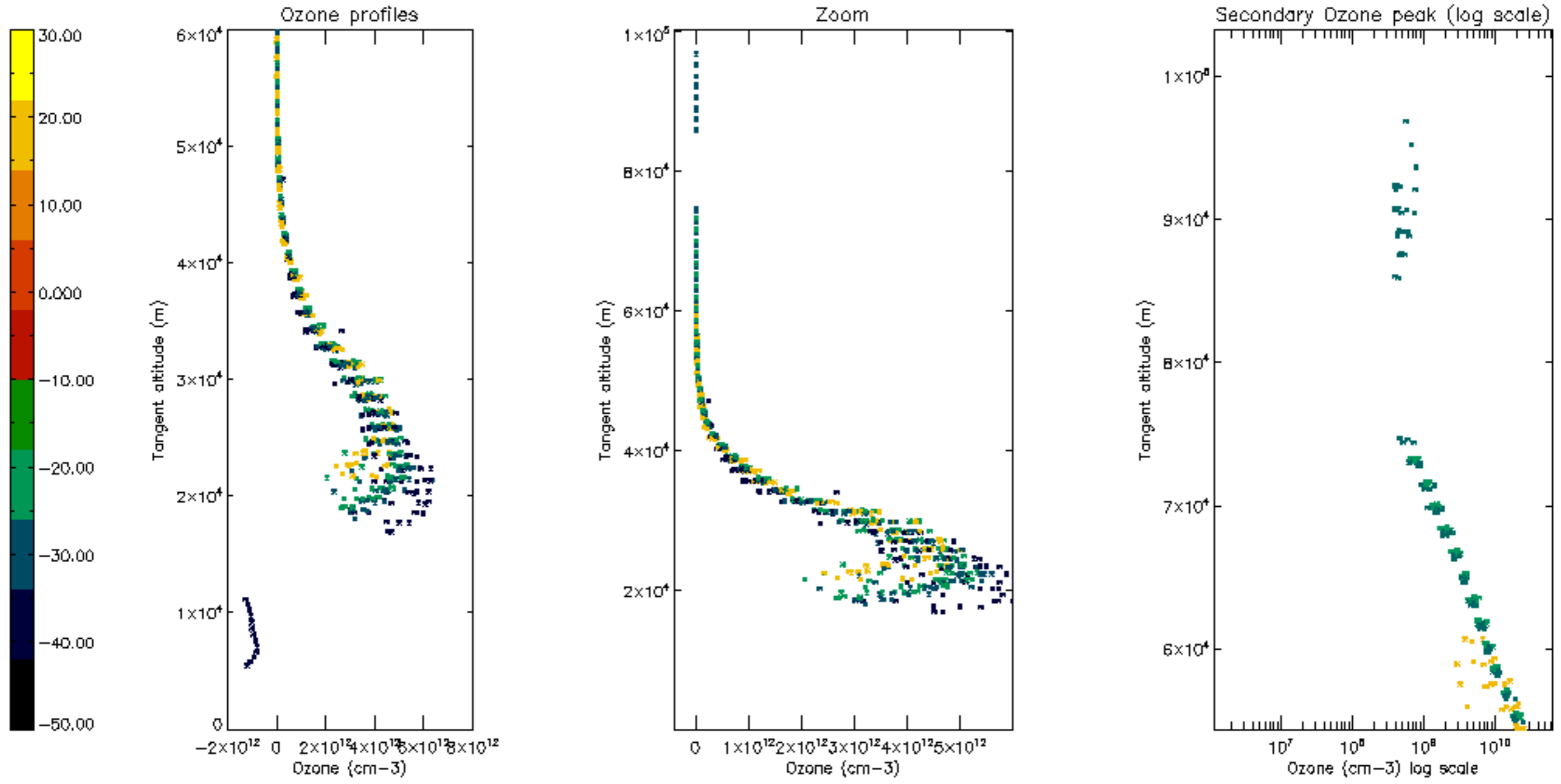


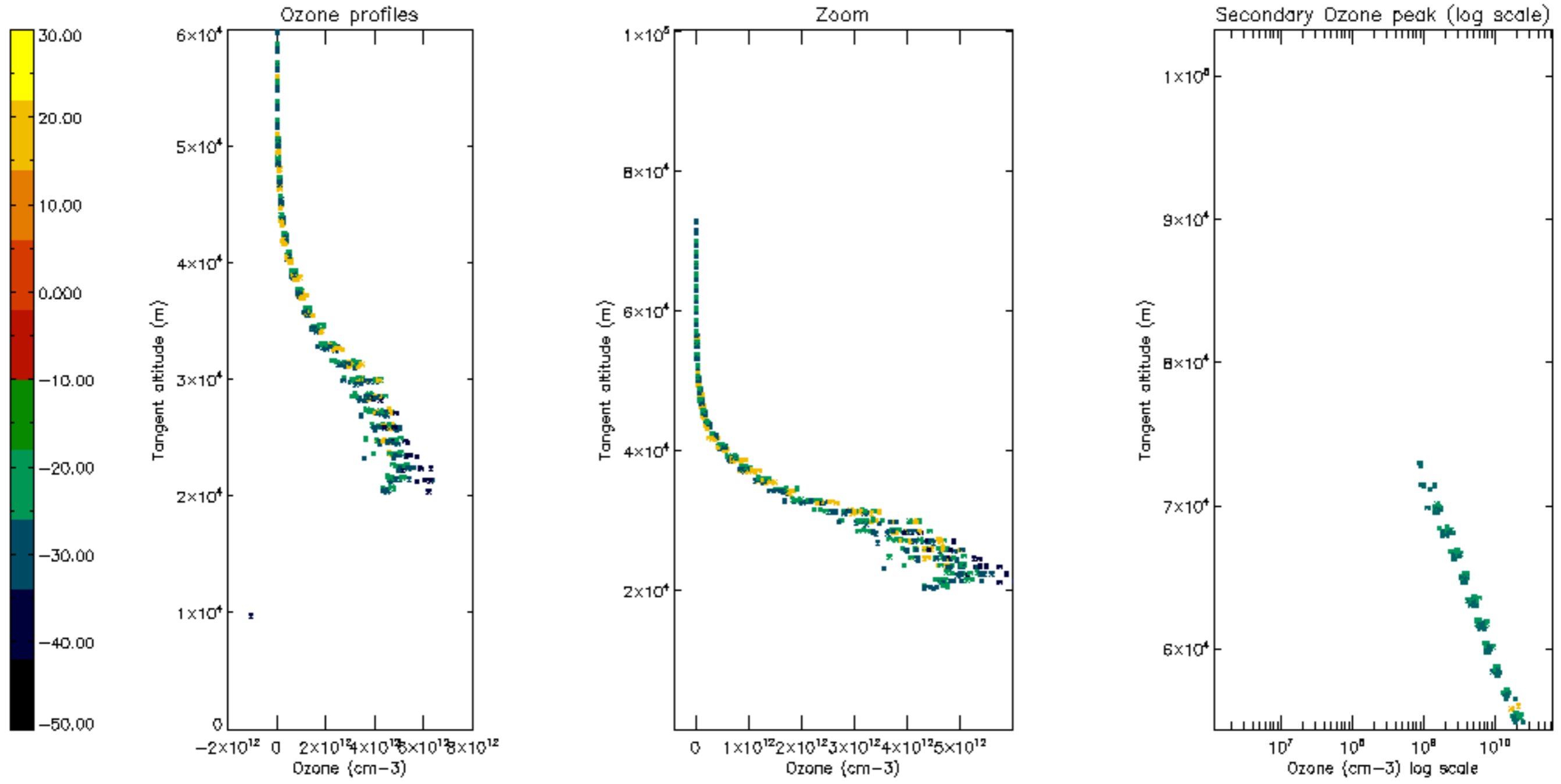
Percentage of saturation errors per profile

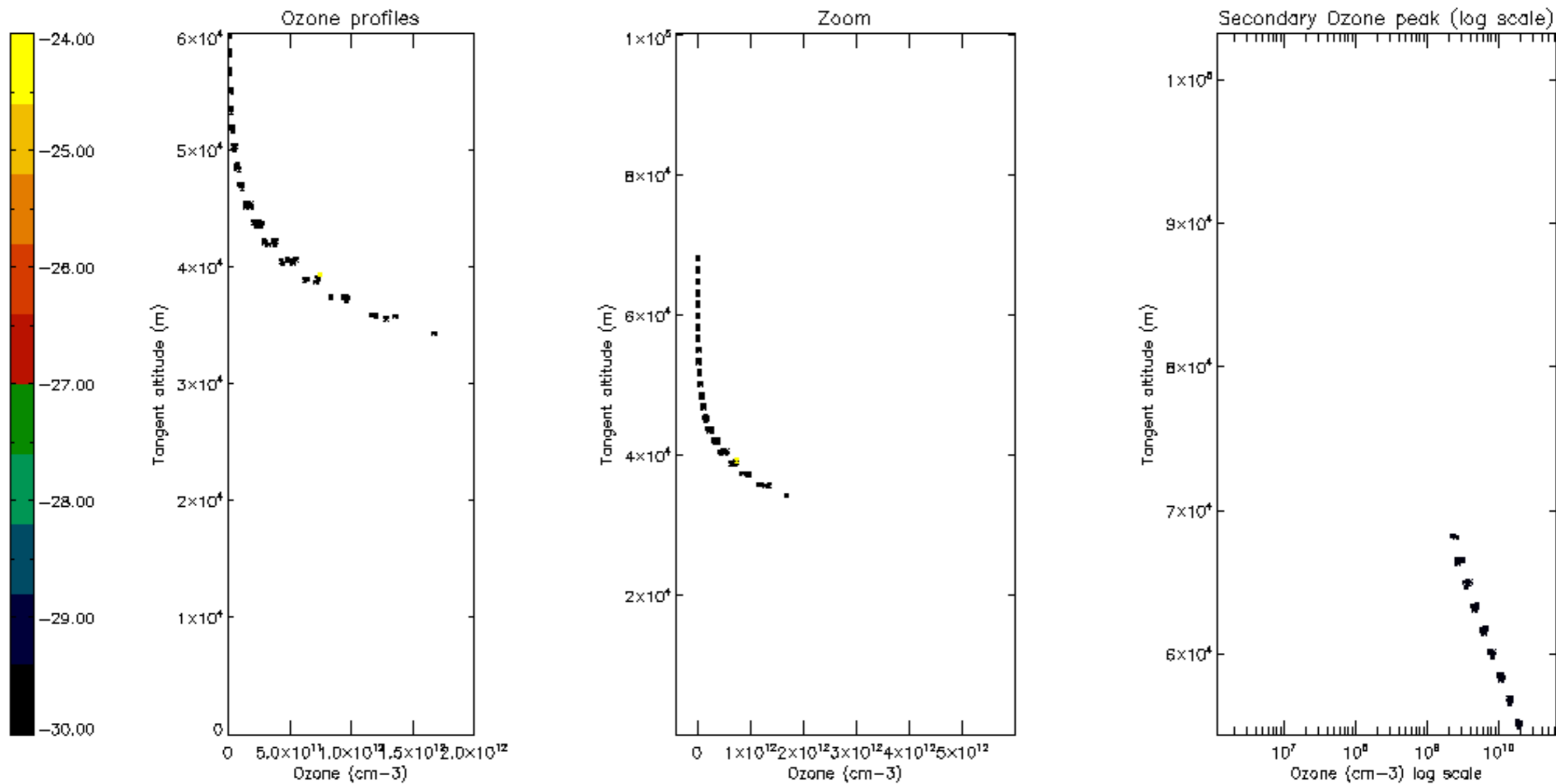




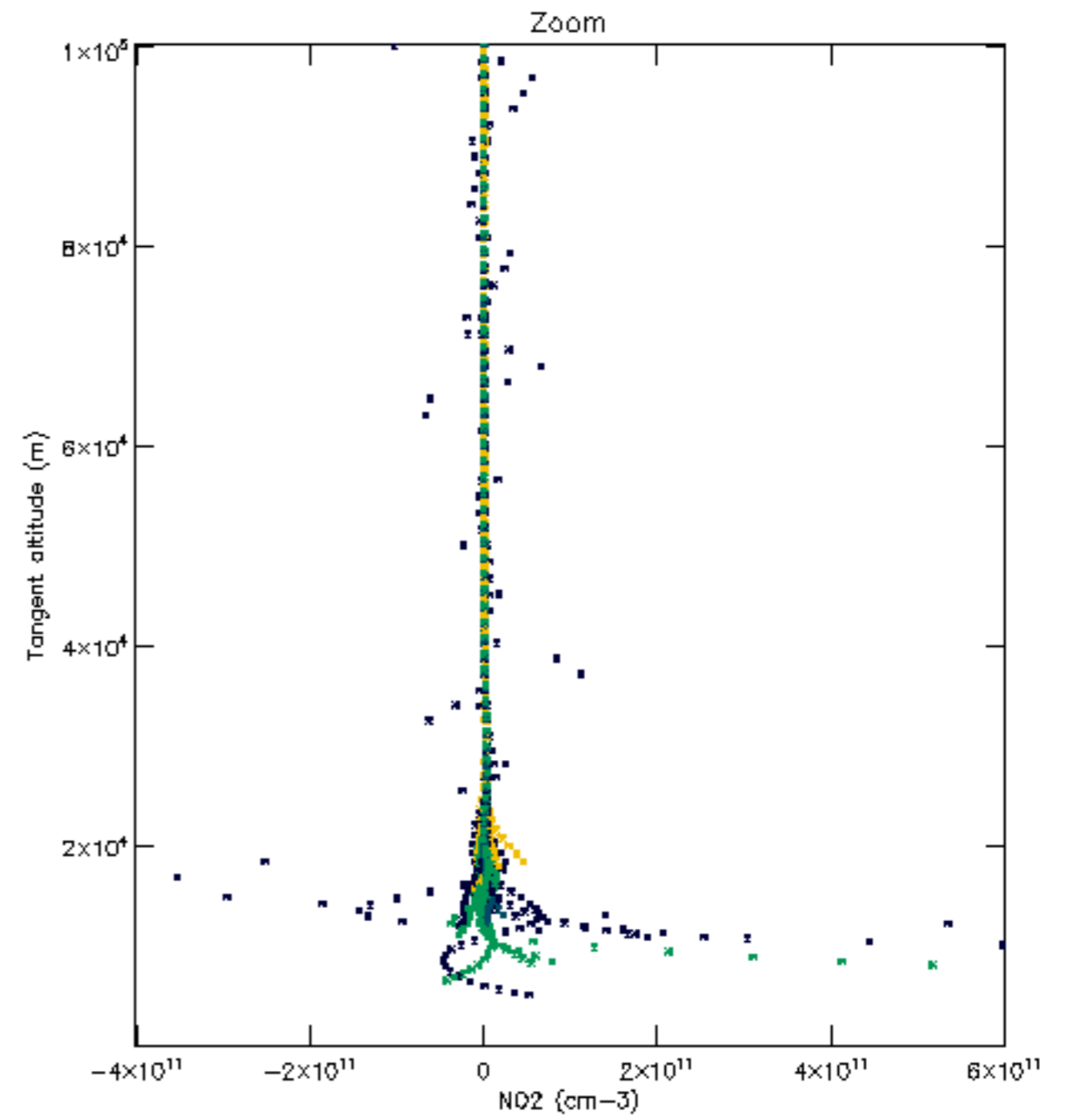
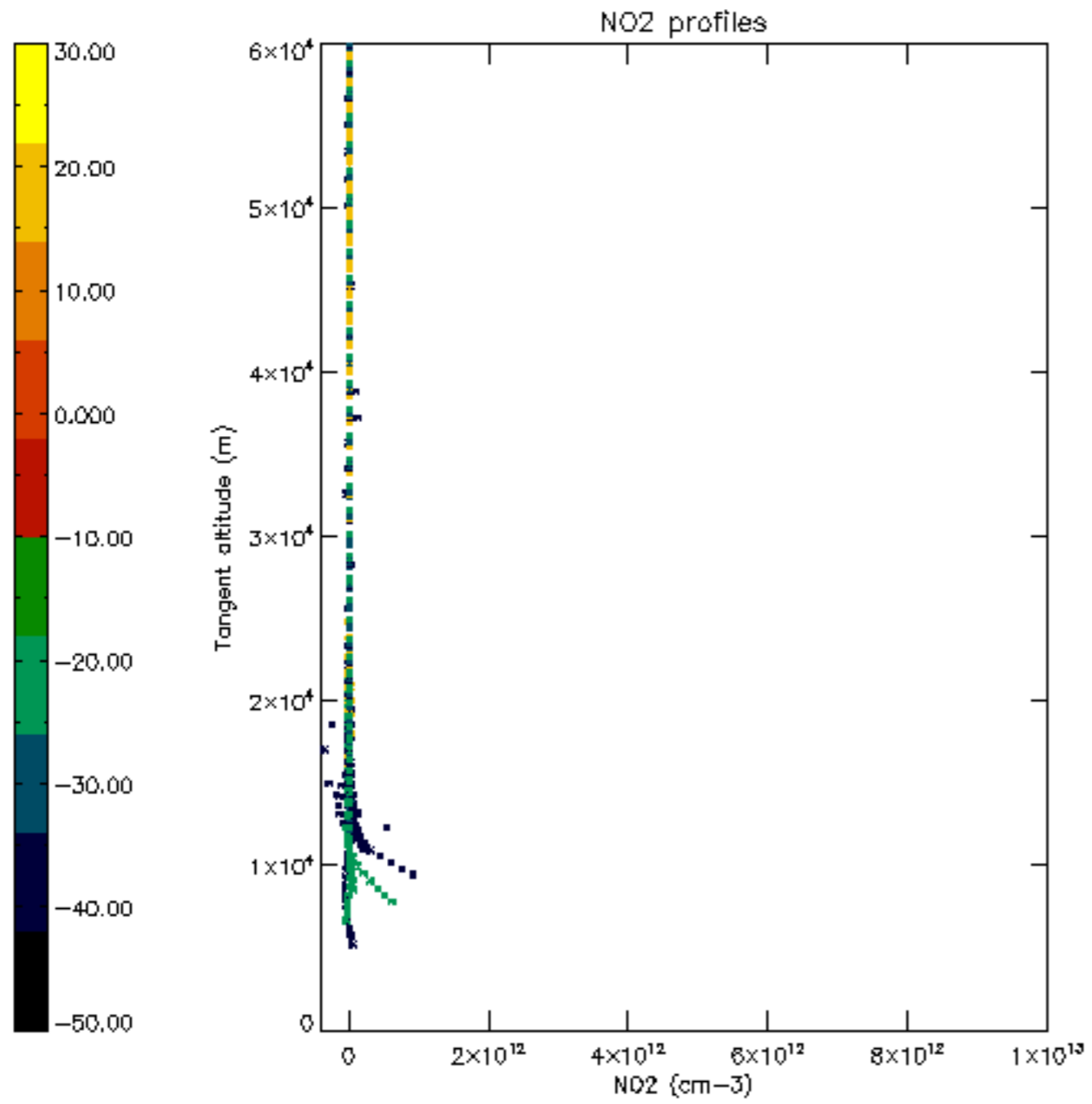


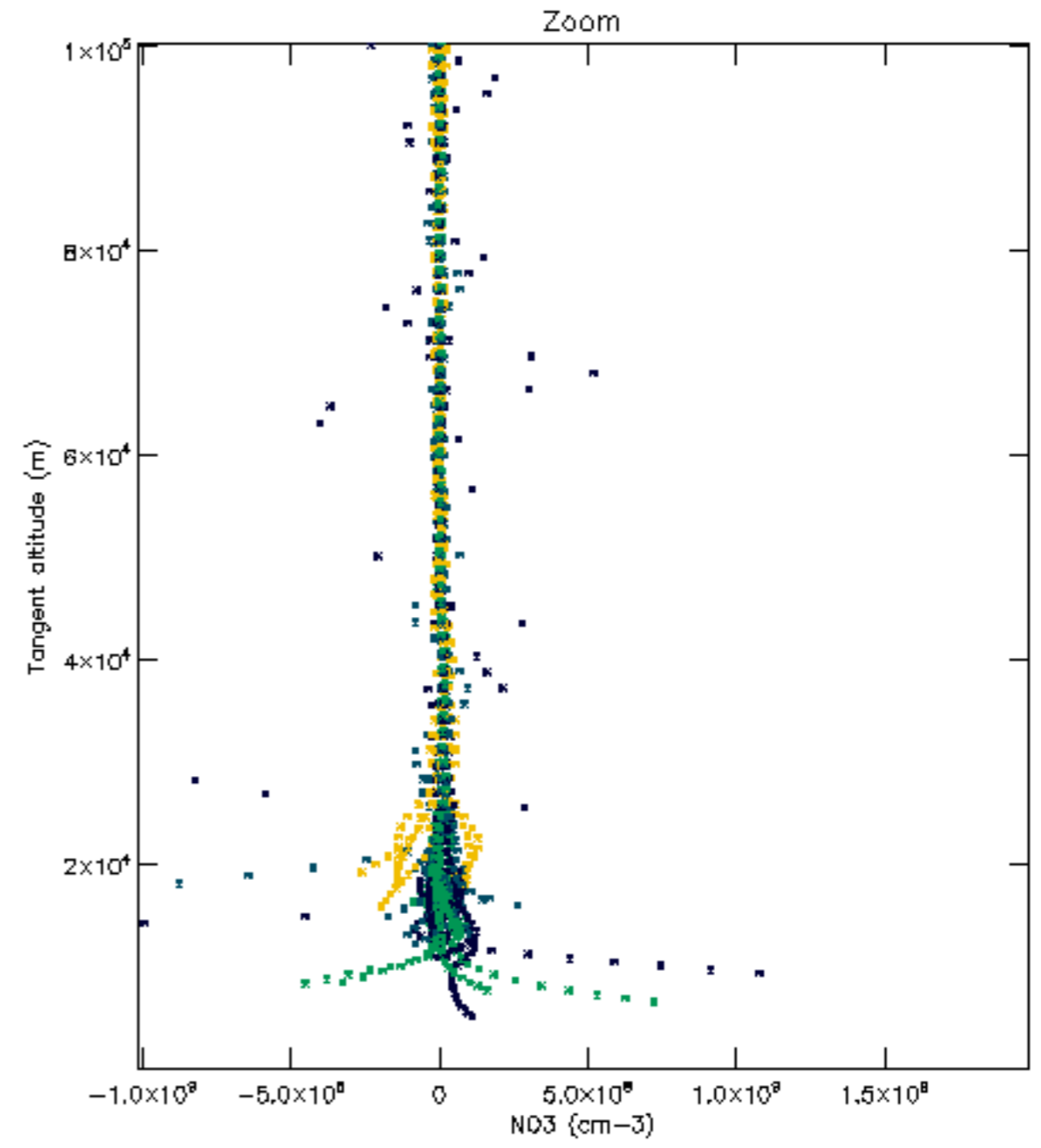
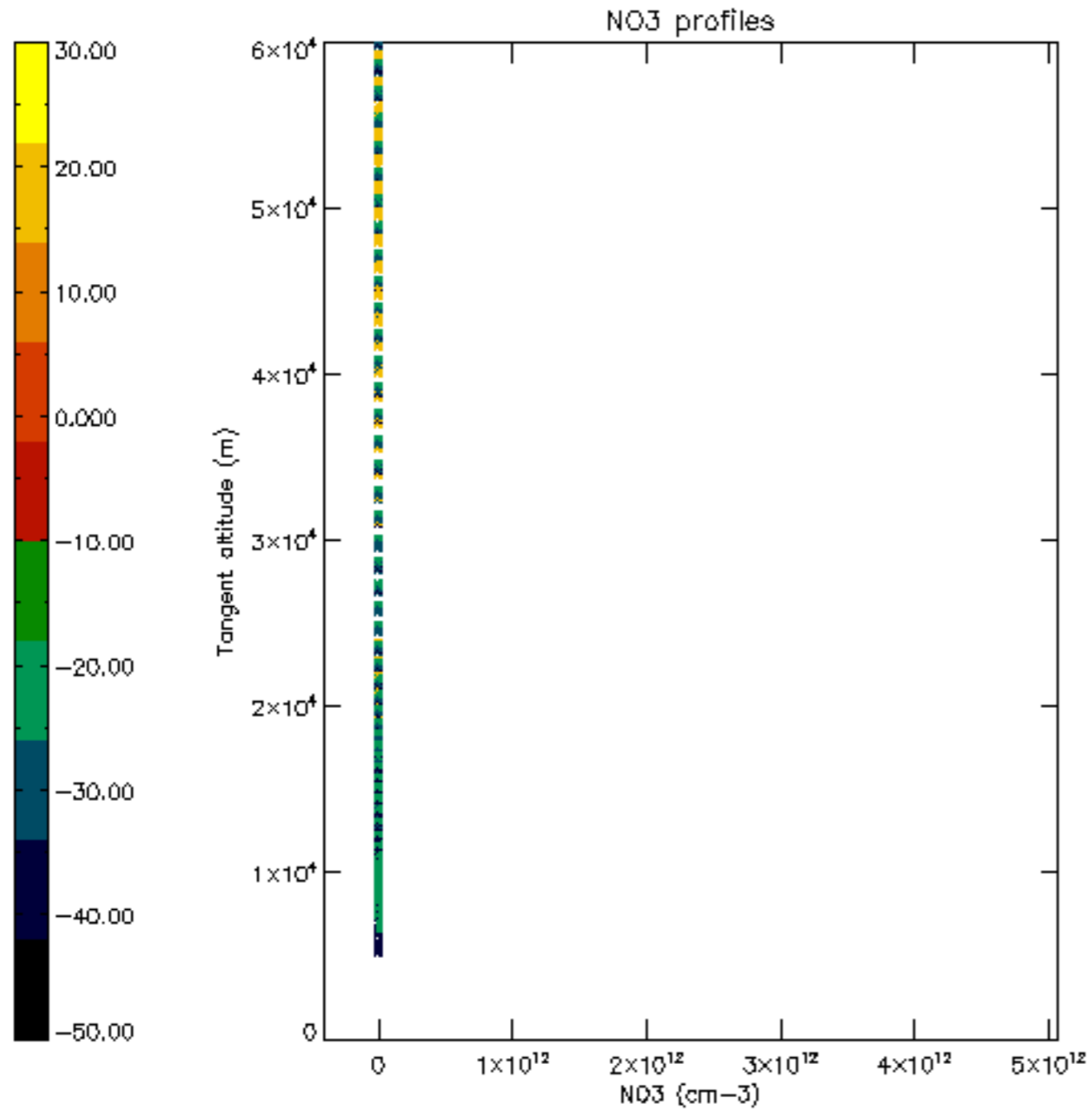


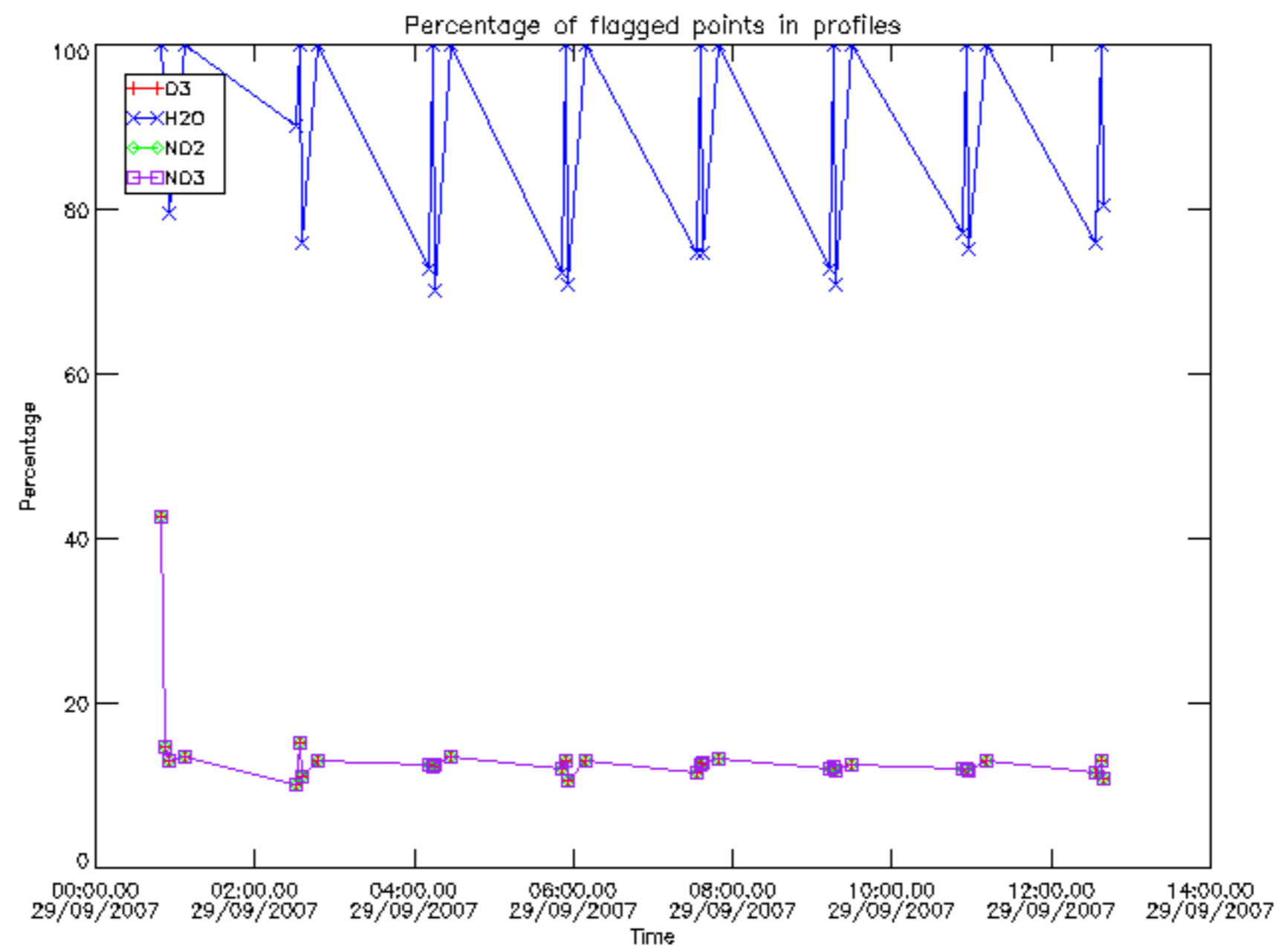




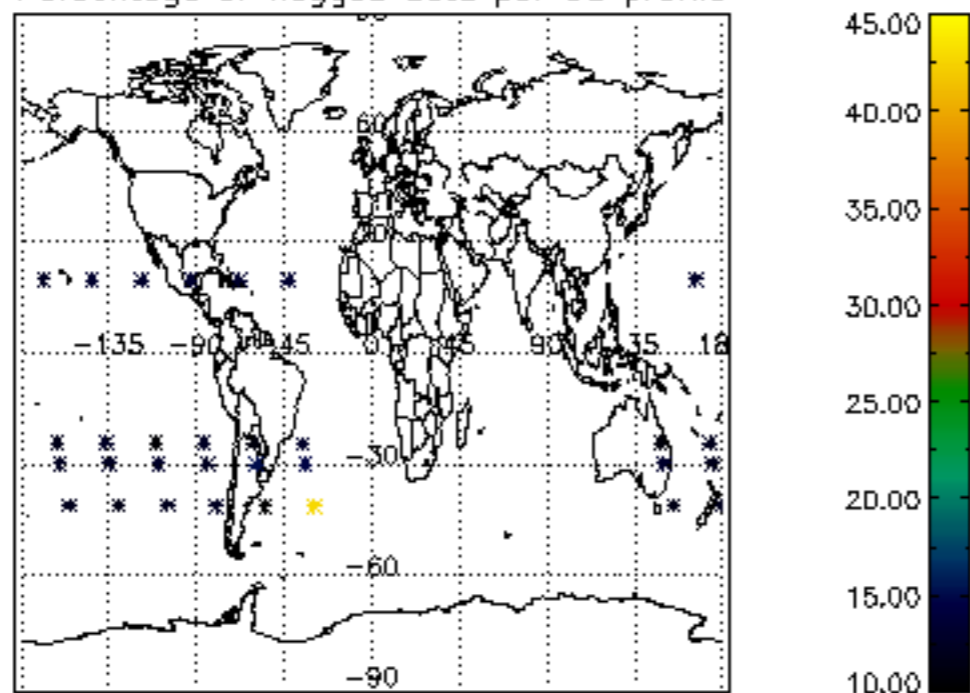




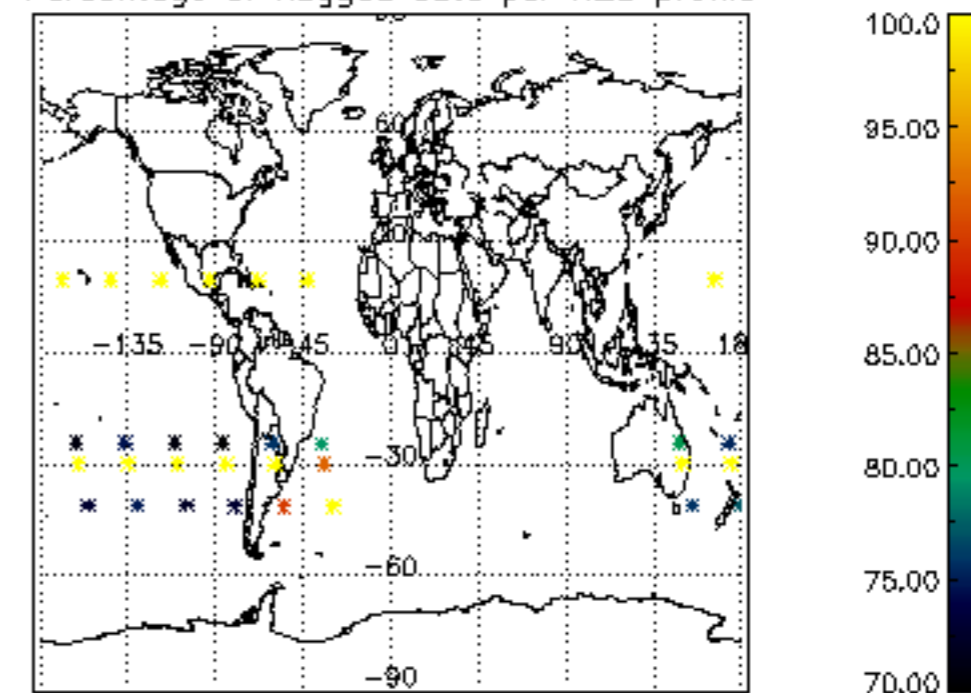




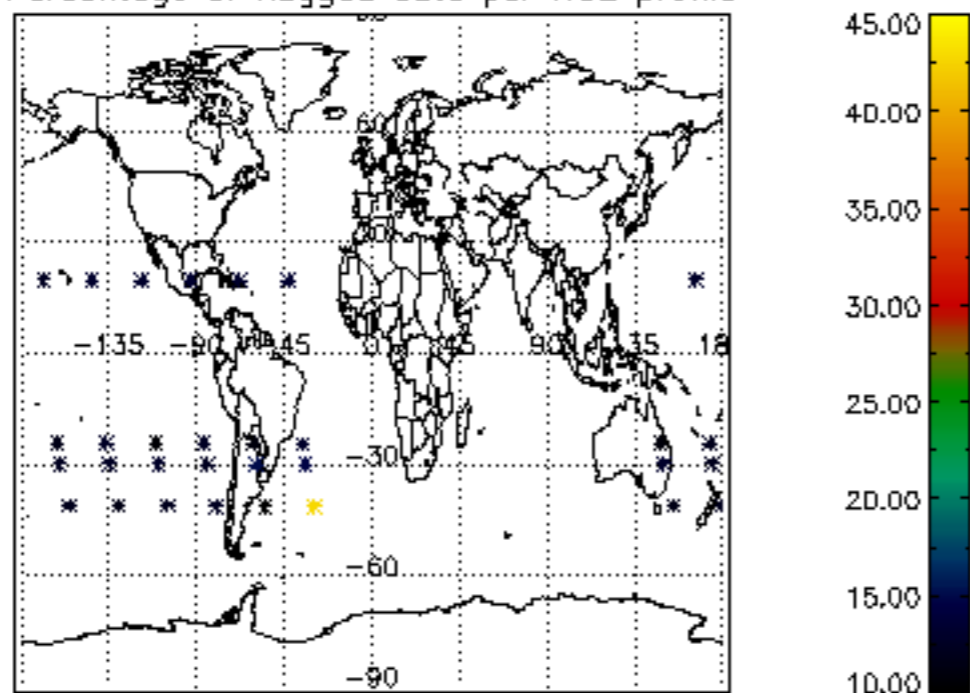
Percentage of flagged data per D3 profile



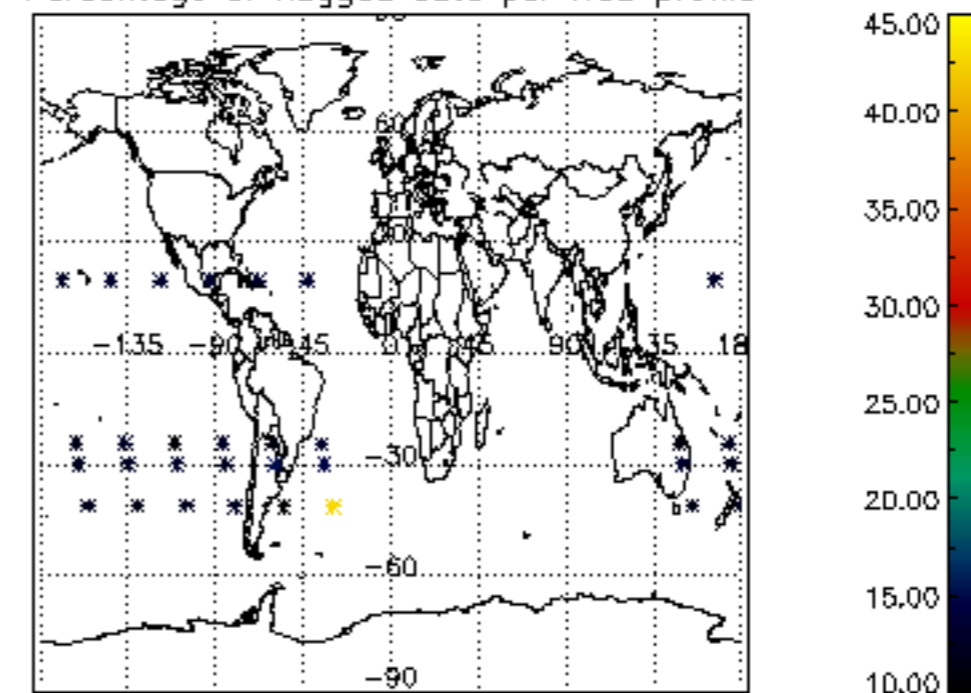
Percentage of flagged data per H2O profile



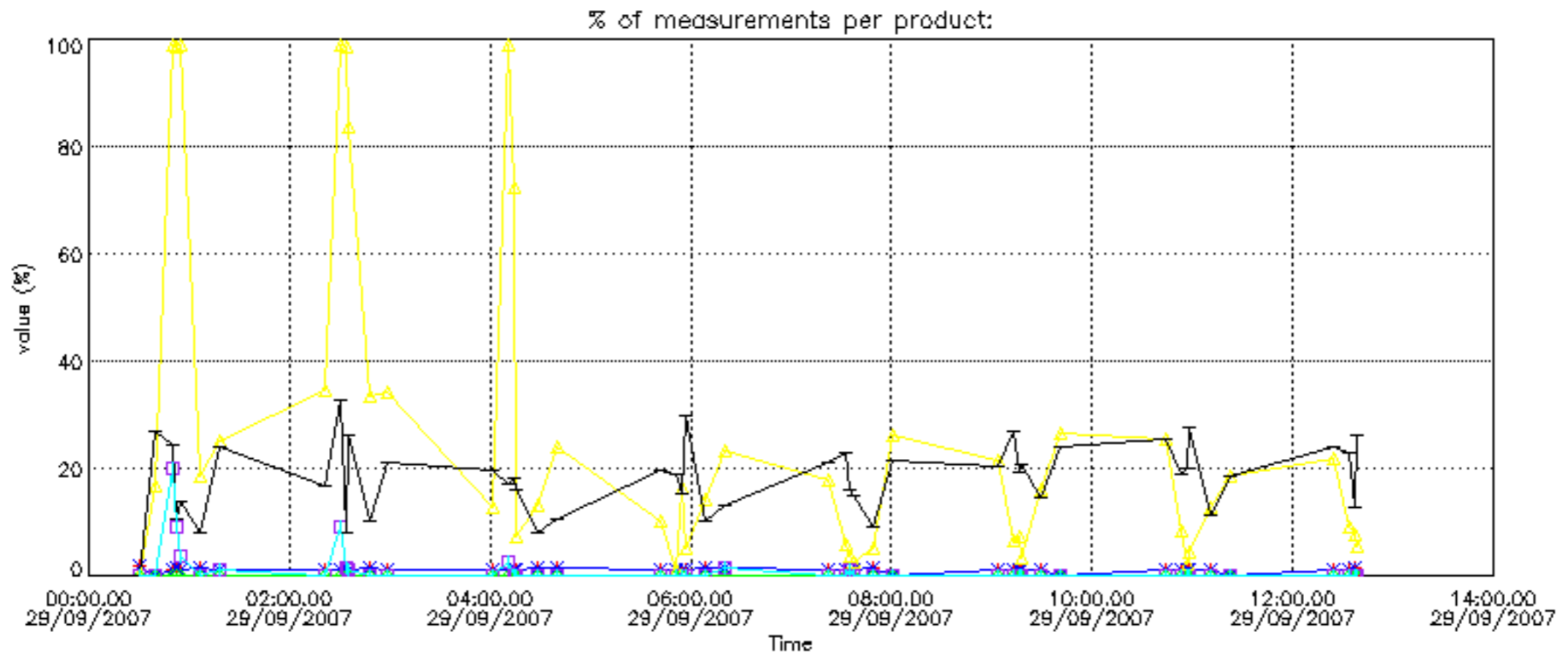
Percentage of flagged data per NO2 profile

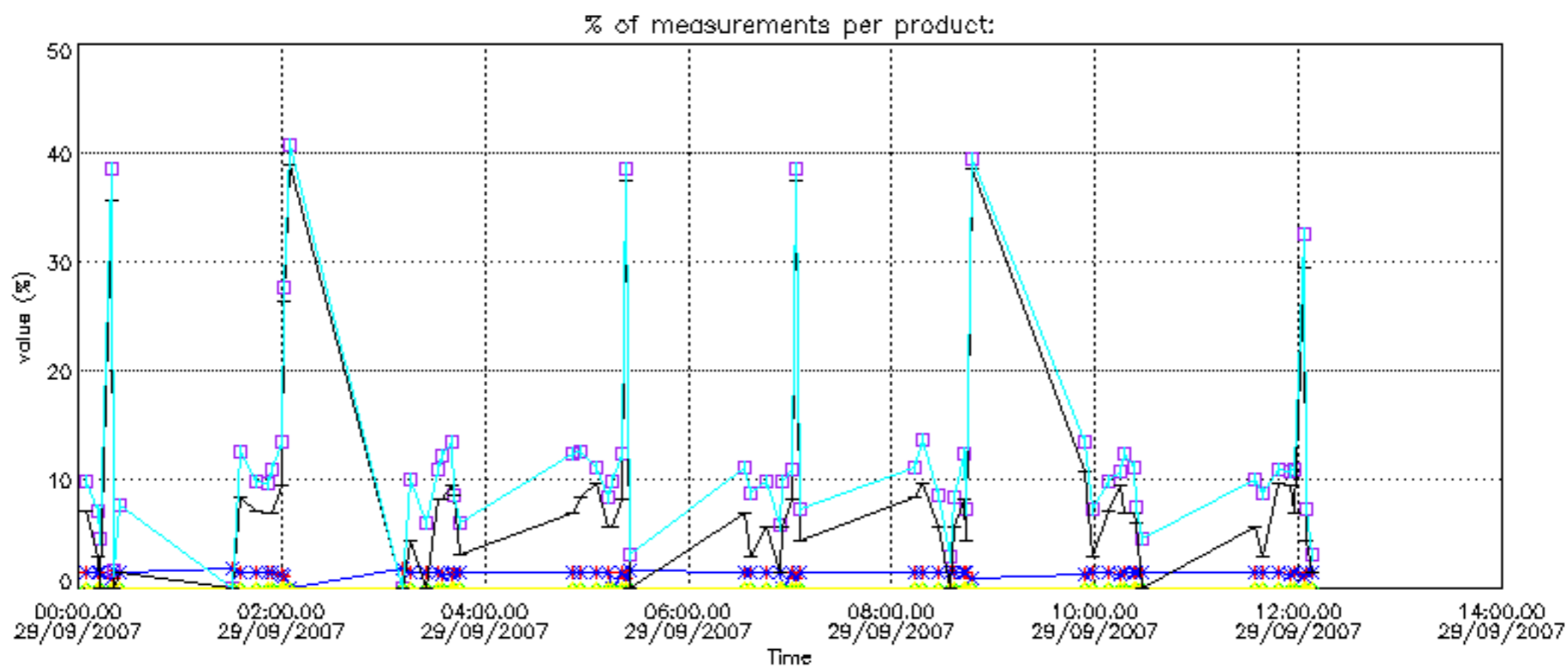


Percentage of flagged data per NO3 profile

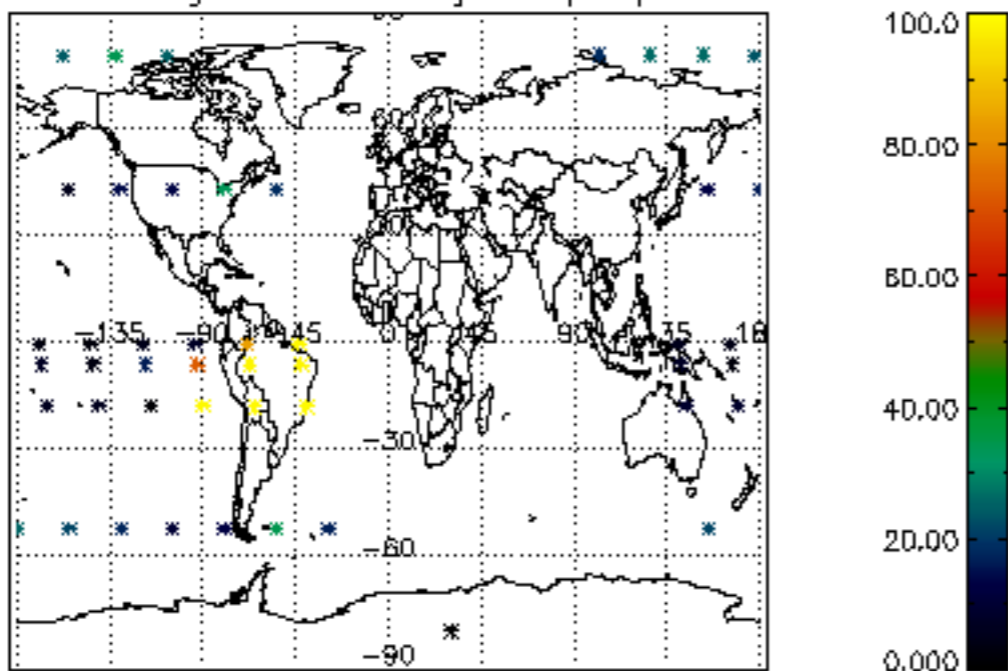




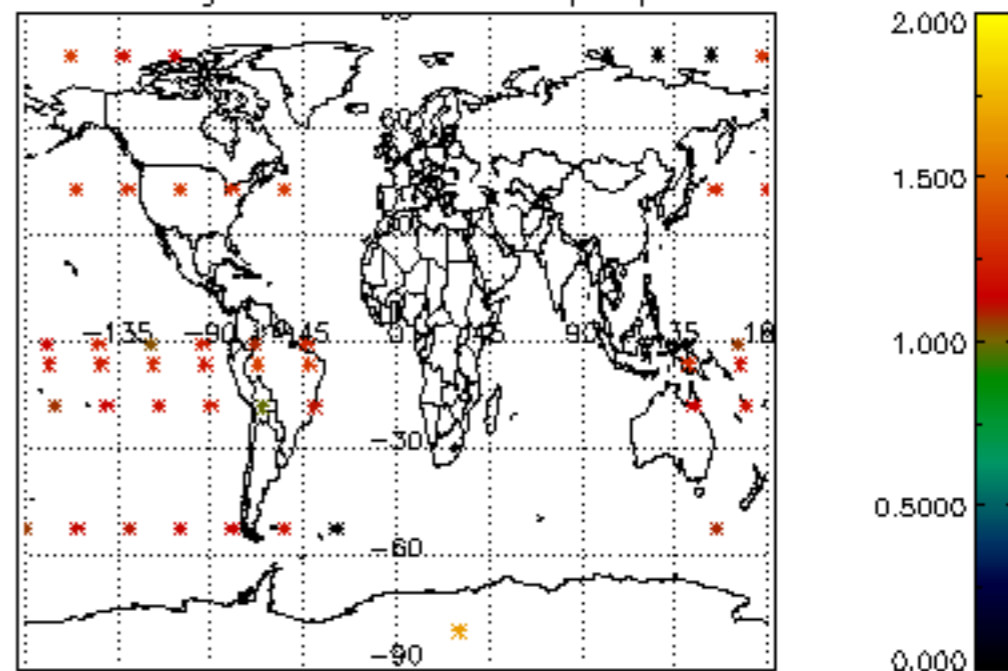




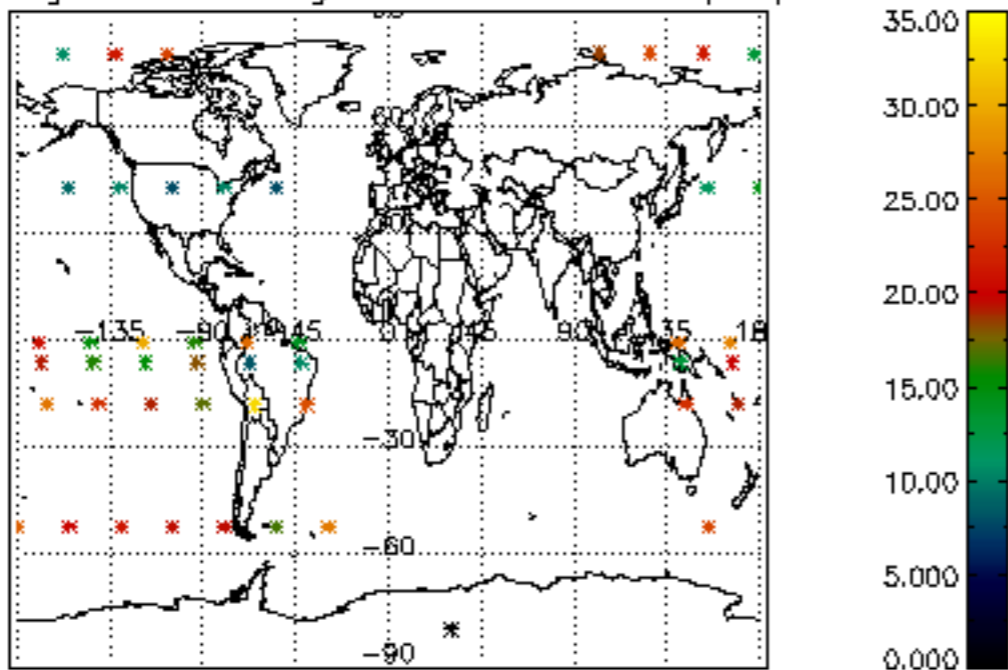
Percentage of cosmic ray hits per profile



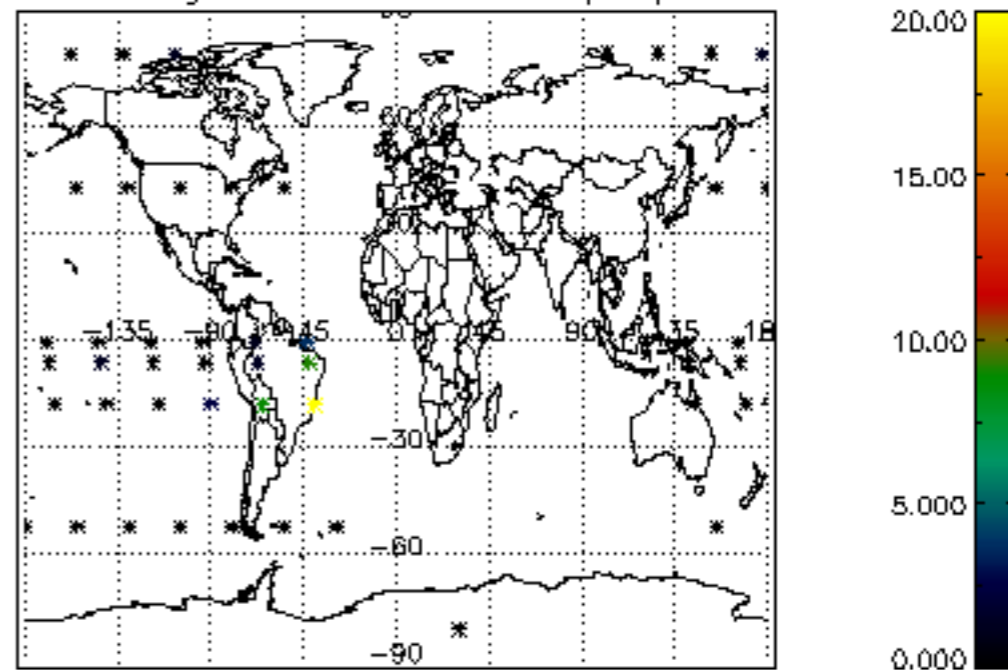
Percentage of datation errors per profile



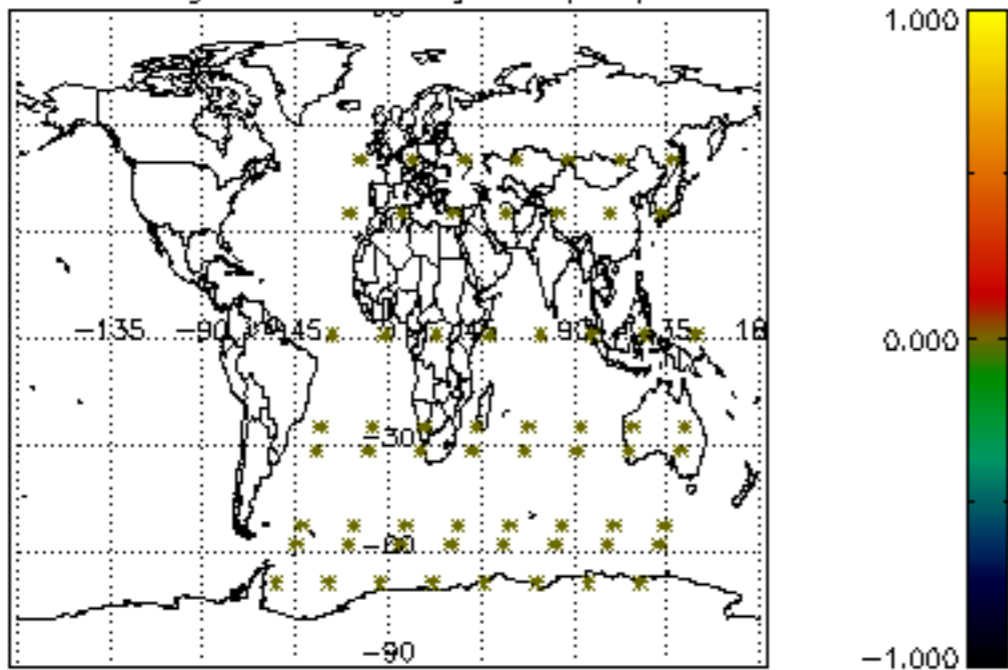
Percentage of star falling outside central band per profile



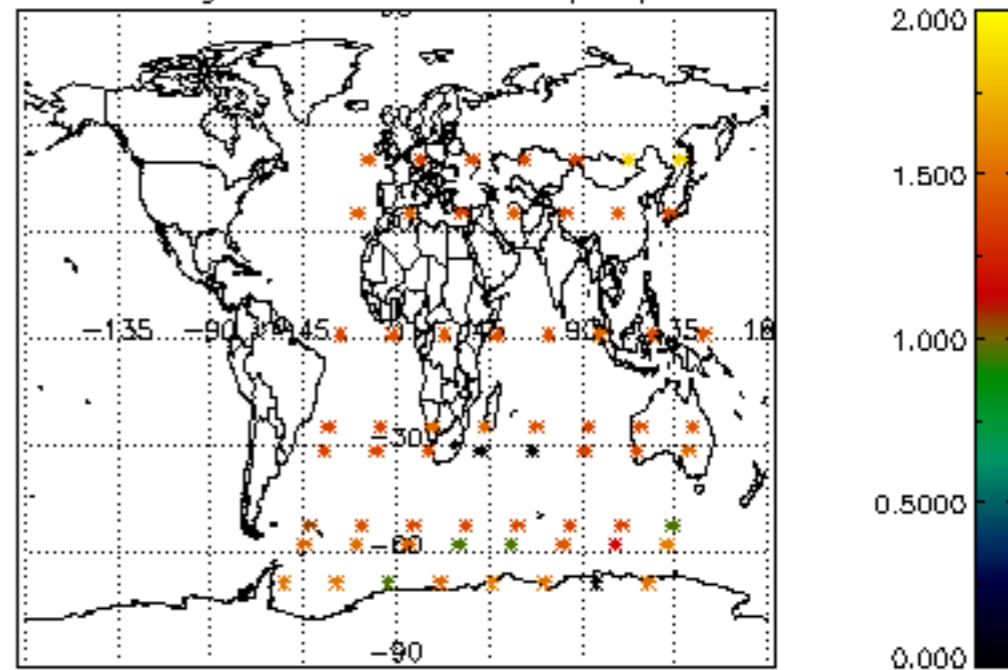
Percentage of saturation errors per profile



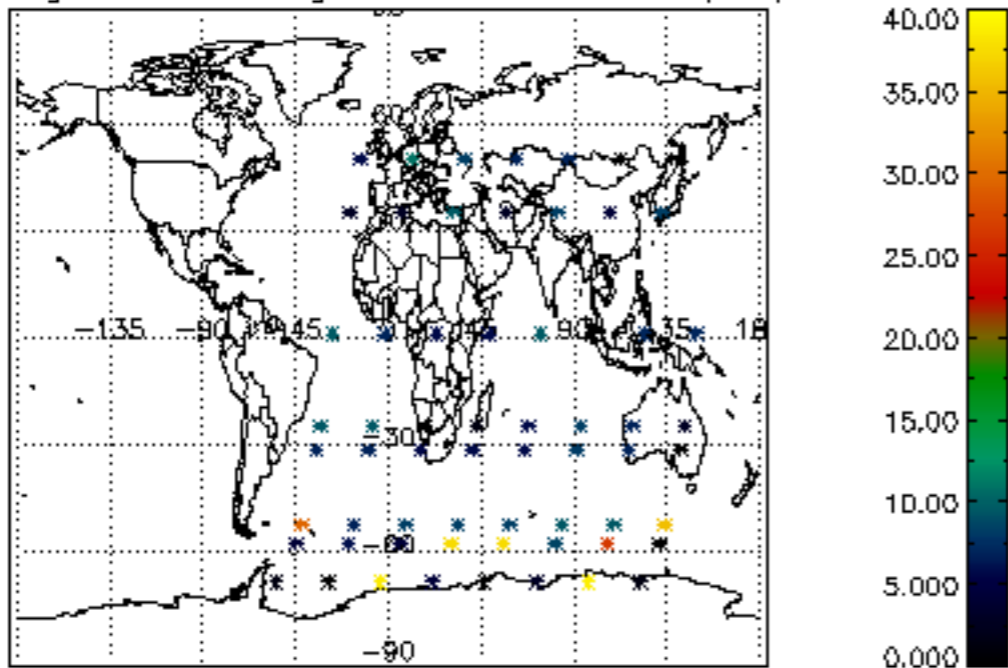
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

