

# 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	18APR2013 09:35:50
Data source version	GOMOS/6.01
Start time of products	05-03-2005 (05MAR2005 00:00:00)
Stop time of products	06-03-2005 (06MAR2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	111
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__2PRFIN20050305_000114_000000472035_00159_15744_8297.N1	05-MAR-2005 00:01:14	Bright	47.000	130	23Bet Dra	2.7990	5800.0	94	15744	No
2	GOM_NL__2PRFIN20050305_000409_000000362035_00159_15744_8298.N1	05-MAR-2005 00:04:09	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	15744	No
3	GOM_NL__2PRFIN20050305_000543_000000362035_00159_15744_8299.N1	05-MAR-2005 00:05:43	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	15744	No
4	GOM_NL__2PRFIN20050305_000718_000000352035_00159_15744_8300.N1	05-MAR-2005 00:07:18	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	15744	No
5	GOM_NL__2PRFIN20050305_001025_000000992035_00159_15744_8301.N1	05-MAR-2005 00:10:25	Twilight	98.500	133	40Zet Her	2.8070	6000.0	197	15744	No
6	GOM_NL__2PRFIN20050305_001431_000000442035_00159_15744_8302.N1	05-MAR-2005 00:14:31	Bright	43.500	168	17Zet Aql	2.9860	11000.	87	15744	No
7	GOM_NL__2PRFIN20050305_001826_000000802035_00159_15744_8303.N1	05-MAR-2005 00:18:26	Straylight	79.500	59	55Alp Oph	2.0800	8900.0	159	15744	No
8	GOM_NL__2PRFIN20050305_002104_000000682035_00159_15744_8304.N1	05-MAR-2005 00:21:04	Dark	68.000	126	60Bet Oph	2.7700	4250.0	136	15744	No
9	GOM_NL__2PRFIN20050305_002427_000000442035_00159_15744_8305.N1	05-MAR-2005 00:24:27	Dark	44.000	155	41Pi Sgr	2.9000	6600.0	88	15744	No
10	GOM_NL__2PRFIN20050305_002620_000000432035_00159_15744_8306.N1	05-MAR-2005 00:26:20	Dark	42.500	57	34Sig Sgr	2.0660	26000.	85	15744	No
11	GOM_NL__2PRFIN20050305_002837_000000512035_00159_15744_8307.N1	05-MAR-2005 00:28:37	Dark	50.500	116	19Del Sgr	2.7000	4100.0	101	15744	No
12	GOM_NL__2PRFIN20050305_003016_000000672035_00159_15744_8308.N1	05-MAR-2005 00:30:16	Dark	66.500	86	35Eta Oph	2.4300	10200.	133	15744	No
13	GOM_NL__2PRFIN20050305_003236_000000532035_00159_15744_8309.N1	05-MAR-2005 00:32:36	Dark	53.000	25	35Lam Sco	1.6200	28000.	106	15744	No
14	GOM_NL__2PRFIN20050305_003857_000000412035_00160_15745_8273.N1	05-MAR-2005 00:38:57	Dark	40.500	43	Alp TrA	1.9100	4250.0	81	15745	No
15	GOM_NL__2PRFIN20050305_004110_000000382035_00160_15745_8274.N1	05-MAR-2005 00:41:10	Dark	38.000	145	Gam TrA	2.8720	10600.	76	15745	No
16	GOM_NL__2PRFIN20050305_004237_000000572035_00160_15745_8275.N1	05-MAR-2005 00:42:37	Dark	57.000	4	Alp1Cen	-0.010000	5800.0	114	15745	No
17	GOM_NL__2PRFIN20050305_004355_000000522035_00160_15745_8276.N1	05-MAR-2005 00:43:55	Dark	51.500	10	Bet Cen	0.61000	28000.	103	15745	No
18	GOM_NL__2PRFIN20050305_004620_000000512035_00160_15745_8277.N1	05-MAR-2005 00:46:20	Dark	51.000	12	Alp1Cru	0.77500	30000.	102	15745	No
19	GOM_NL__2PRFIN20050305_004759_000000372035_00160_15745_8278.N1	05-MAR-2005 00:47:59	Dark	37.000	124	The Car	2.7640	30000.	74	15745	No
20	GOM_NL__2PRFIN20050305_005015_000000382035_00160_15745_8279.N1	05-MAR-2005 00:50:15	Straylight	38.000	71	Iot Car	2.2460	7700.0	76	15745	No
21	GOM_NL__2PRFIN20050305_005146_000000442035_00160_15745_8280.N1	05-MAR-2005 00:51:46	Straylight	43.500	113	Mu Vel	2.6920	5000.0	87	15745	No
22	GOM_NL__2PRFIN20050305_005442_000000472035_00160_15745_8281.N1	05-MAR-2005 00:54:42	Straylight	46.500	65	Lam Vel	2.2040	4400.0	93	15745	No
23	GOM_NL__2PRFIN20050305_005727_000000612035_00160_15745_8282.N1	05-MAR-2005 00:57:27	Straylight	60.500	106	9Bet Crv	2.6480	5600.0	121	15745	No
24	GOM_NL__2PRFIN20050305_010015_000000612035_00160_15745_8283.N1	05-MAR-2005 01:00:15	Straylight	60.500	100	4Gam Crv	2.5800	13100.	121	15745	No
25	GOM_NL__2PRFIN20050305_010409_000000452035_00160_15745_8284.N1	05-MAR-2005 01:04:09	Twilight	44.500	48	30Alp Hya	1.9770	4100.0	89	15745	No
26	GOM_NL__2PRFIN20050305_011005_000000432035_00160_15745_8285.N1	05-MAR-2005 01:10:05	Bright	43.000	22	32Alp Leo	1.3600	15200.	86	15745	No
27	GOM_NL__2PRFIN20050305_011235_000000442035_00160_15745_8286.N1	05-MAR-2005 01:12:35	Bright	44.000	51	41Gam1Leo	2.0100	4500.0	88	15745	No
28	GOM_NL__2PRFIN20050305_011404_000000482035_00160_15745_8287.N1	05-MAR-2005 01:14:04	Bright	48.000	96	68Del Leo	2.5600	9300.0	96	15745	No
29	GOM_NL__2PRFIN20050305_011648_000000402035_00160_15745_8288.N1	05-MAR-2005 01:16:48	Bright	39.500	24	66Alp Gem	1.5800	10200.	79	15745	No
30	GOM_NL__2PRFIN20050305_012111_000000452035_00160_15745_8289.N1	05-MAR-2005 01:21:11	Bright	45.000	174	52Psi UMa	3.0040	4400.0	90	15745	No
31	GOM_NL__2PRFIN20050305_012405_000000412035_00160_15745_8290.N1	05-MAR-2005 01:24:05	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	15745	No
32	GOM_NL__2PRFIN20050305_012528_000000412035_00160_15745_8291.N1	05-MAR-2005 01:25:28	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	15745	No
33	GOM_NL__2PRFIN20050305_012816_000000492035_00160_15745_8292.N1	05-MAR-2005 01:28:16	Bright	48.500	32	77Eps UMa	1.7630	11000.	97	15745	No
34	GOM_NL__2PRFIN20050305_012948_000000522035_00160_15745_8293.N1	05-MAR-2005 01:29:48	Bright	51.500	55	79Zet UMa	2.0600	10200.	103	15745	No
35	GOM_NL__2PRFIN20050305_013203_000000362035_00160_15745_8294.N1	05-MAR-2005 01:32:03	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	15745	No
36	GOM_NL__2PRFIN20050305_013716_000000472035_00160_15745_8295.N1	05-MAR-2005 01:37:16	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	15745	No
37	GOM_NL__2PRFIN20050305_013939_000000342035_00160_15745_8296.N1	05-MAR-2005 01:39:39	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	15745	No
38	GOM_NL__2PRFIN20050305_014150_000000492035_00160_15745_8297.N1	05-MAR-2005 01:41:50	Bright	49.000	130	23Bet Dra	2.7990	5800.0	98	15745	No
39	GOM_NL__2PRFIN20050305_014445_000000362035_00160_15745_8298.N1	05-MAR-2005 01:44:45	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	15745	No
40	GOM_NL__2PRFIN20050305_014619_000000372035_00160_15745_8299.N1	05-MAR-2005 01:46:19	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	15745	No
41	GOM_NL__2PRFIN20050305_014754_000000362035_00160_15745_8300.N1	05-MAR-2005 01:47:54	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	15745	No
42	GOM_NL__2PRFIN20050305_015101_000001002035_00160_15745_8301.N1	05-MAR-2005 01:51:01	Twilight	100.00	133	40Zet Her	2.8070	6000.0	200	15745	No

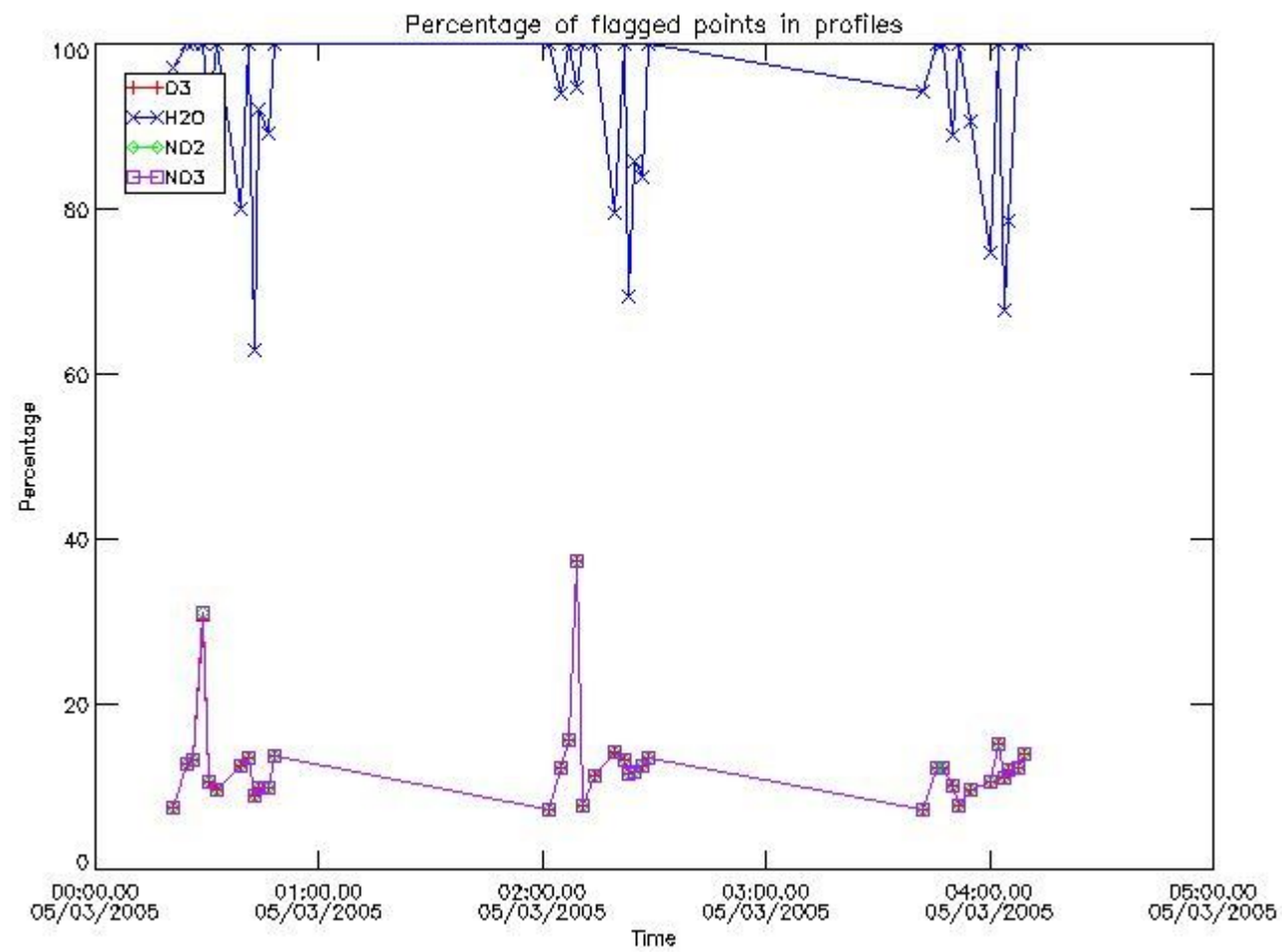
43	GOM_NL__2PRFIN20050305_015507_000000442035_00160_15745_8302.N1	05-MAR-2005 01:55:07	Bright	43.500	168	17Zet Aql	2.9860	11000.	87	15745	No
44	GOM_NL__2PRFIN20050305_015903_000000792035_00160_15745_8303.N1	05-MAR-2005 01:59:03	Straylight	79.000	59	55Alp Oph	2.0800	8900.0	158	15745	No
45	GOM_NL__2PRFIN20050305_020141_000000712035_00160_15745_8304.N1	05-MAR-2005 02:01:41	Dark	70.500	126	60Bet Oph	2.7700	4250.0	141	15745	No
46	GOM_NL__2PRFIN20050305_020504_000000422035_00160_15745_8305.N1	05-MAR-2005 02:05:04	Dark	41.500	155	41Pi Sgr	2.9000	6600.0	83	15745	No
47	GOM_NL__2PRFIN20050305_020656_000000432035_00160_15745_8306.N1	05-MAR-2005 02:06:56	Dark	42.500	57	34Sig Sgr	2.0660	26000.	85	15745	No
48	GOM_NL__2PRFIN20050305_020913_000000482035_00160_15745_8307.N1	05-MAR-2005 02:09:13	Dark	47.500	116	19Del Sgr	2.7000	4100.0	95	15745	No
49	GOM_NL__2PRFIN20050305_021053_000000672035_00160_15745_8308.N1	05-MAR-2005 02:10:53	Dark	66.500	86	35Eta Oph	2.4300	10200.	133	15745	No
50	GOM_NL__2PRFIN20050305_021404_000000452035_00160_15745_8309.N1	05-MAR-2005 02:14:04	Dark	45.000	40	The Sco	1.8590	7100.0	90	15745	No
51	GOM_NL__2PRFIN20050305_021933_000000402035_00161_15746_8273.N1	05-MAR-2005 02:19:33	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	15746	No
52	GOM_NL__2PRFIN20050305_022146_000000392035_00161_15746_8274.N1	05-MAR-2005 02:21:46	Dark	38.500	145	Gam TrA	2.8720	10600.	77	15746	No
53	GOM_NL__2PRFIN20050305_022313_000000452035_00161_15746_8275.N1	05-MAR-2005 02:23:13	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	15746	No
54	GOM_NL__2PRFIN20050305_022431_000000432035_00161_15746_8276.N1	05-MAR-2005 02:24:31	Dark	43.000	10	Bet Cen	0.61000	28000.	86	15746	No
55	GOM_NL__2PRFIN20050305_022656_000000412035_00161_15746_8277.N1	05-MAR-2005 02:26:56	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	15746	No
56	GOM_NL__2PRFIN20050305_022835_000000382035_00161_15746_8278.N1	05-MAR-2005 02:28:35	Dark	38.000	124	The Car	2.7640	30000.	76	15746	No
57	GOM_NL__2PRFIN20050305_023051_000000432035_00161_15746_8279.N1	05-MAR-2005 02:30:51	Straylight	42.500	71	lot Car	2.2460	7700.0	85	15746	No
58	GOM_NL__2PRFIN20050305_023222_000000402035_00161_15746_8280.N1	05-MAR-2005 02:32:22	Straylight	40.000	113	Mu Vel	2.6920	5000.0	80	15746	No
59	GOM_NL__2PRFIN20050305_023518_000000412035_00161_15746_8281.N1	05-MAR-2005 02:35:18	Straylight	41.000	65	Lam Vel	2.2040	4400.0	82	15746	No
60	GOM_NL__2PRFIN20050305_023803_000000622035_00161_15746_8282.N1	05-MAR-2005 02:38:03	Straylight	62.000	106	9Bet Crv	2.6480	5600.0	124	15746	No
61	GOM_NL__2PRFIN20050305_024051_000000602035_00161_15746_8283.N1	05-MAR-2005 02:40:51	Straylight	60.000	100	4Gam Crv	2.5800	13100.	120	15746	No
62	GOM_NL__2PRFIN20050305_024445_000000462035_00161_15746_8284.N1	05-MAR-2005 02:44:45	Tw_i_and_stray	45.500	48	30Alp Hya	1.9770	4100.0	91	15746	No
63	GOM_NL__2PRFIN20050305_025041_000000422035_00161_15746_8285.N1	05-MAR-2005 02:50:41	Bright	41.500	22	32Alp Leo	1.3600	15200.	83	15746	No
64	GOM_NL__2PRFIN20050305_025311_000000442035_00161_15746_8286.N1	05-MAR-2005 02:53:11	Bright	43.500	51	41Gam1Leo	2.0100	4500.0	87	15746	No
65	GOM_NL__2PRFIN20050305_025440_000000482035_00161_15746_8287.N1	05-MAR-2005 02:54:40	Bright	48.000	96	68Del Leo	2.5600	9300.0	96	15746	No
66	GOM_NL__2PRFIN20050305_025725_000000382035_00161_15746_8288.N1	05-MAR-2005 02:57:25	Bright	37.500	24	66Alp Gem	1.5800	10200.	75	15746	No
67	GOM_NL__2PRFIN20050305_030147_000000442035_00161_15746_8289.N1	05-MAR-2005 03:01:47	Bright	44.000	174	52Psi UMa	3.0040	4400.0	88	15746	No
68	GOM_NL__2PRFIN20050305_030441_000000402035_00161_15746_8290.N1	05-MAR-2005 03:04:41	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	15746	No
69	GOM_NL__2PRFIN20050305_030604_000000412035_00161_15746_8291.N1	05-MAR-2005 03:06:04	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	15746	No
70	GOM_NL__2PRFIN20050305_030851_000000502035_00161_15746_8292.N1	05-MAR-2005 03:08:51	Bright	49.500	32	77Eps UMa	1.7630	11000.	99	15746	No
71	GOM_NL__2PRFIN20050305_031023_000000522035_00161_15746_8293.N1	05-MAR-2005 03:10:23	Bright	52.000	55	79Zet UMa	2.0600	10200.	104	15746	No
72	GOM_NL__2PRFIN20050305_031239_000000332035_00161_15746_8294.N1	05-MAR-2005 03:12:39	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	15746	No
73	GOM_NL__2PRFIN20050305_031751_000000472035_00161_15746_8295.N1	05-MAR-2005 03:17:51	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	15746	No
74	GOM_NL__2PRFIN20050305_032015_000000362035_00161_15746_8296.N1	05-MAR-2005 03:20:15	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	15746	No
75	GOM_NL__2PRFIN20050305_032225_000000472035_00161_15746_8297.N1	05-MAR-2005 03:22:25	Bright	47.000	130	23Bet Dra	2.7990	5800.0	94	15746	No
76	GOM_NL__2PRFIN20050305_032521_000000352035_00161_15746_8298.N1	05-MAR-2005 03:25:21	Bright	35.000	19	50Alp Cyg	1.2460	10500.	70	15746	No
77	GOM_NL__2PRFIN20050305_032655_000000362035_00161_15746_8299.N1	05-MAR-2005 03:26:55	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	15746	No
78	GOM_NL__2PRFIN20050305_032830_000000352035_00161_15746_8300.N1	05-MAR-2005 03:28:30	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	15746	No
79	GOM_NL__2PRFIN20050305_033137_000000962035_00161_15746_8301.N1	05-MAR-2005 03:31:37	Tw_i_and_stray	96.000	133	40Zet Her	2.8070	6000.0	192	15746	No
80	GOM_NL__2PRFIN20050305_033543_000000432035_00161_15746_8302.N1	05-MAR-2005 03:35:43	Bright	43.000	168	17Zet Aql	2.9860	11000.	86	15746	No
81	GOM_NL__2PRFIN20050305_033940_000000762035_00161_15746_8303.N1	05-MAR-2005 03:39:40	Straylight	76.000	59	55Alp Oph	2.0800	8900.0	152	15746	No
82	GOM_NL__2PRFIN20050305_034218_000000712035_00161_15746_8304.N1	05-MAR-2005 03:42:18	Dark	70.500	126	60Bet Oph	2.7700	4250.0	141	15746	No
83	GOM_NL__2PRFIN20050305_034540_000000422035_00161_15746_8305.N1	05-MAR-2005 03:45:40	Dark	41.500	155	41Pi Sgr	2.9000	6600.0	83	15746	No
84	GOM_NL__2PRFIN20050305_034733_000000462035_00161_15746_8306.N1	05-MAR-2005 03:47:33	Dark	46.000	57	34Sig Sgr	2.0660	26000.	92	15746	No
85	GOM_NL__2PRFIN20050305_034950_000000502035_00161_15746_8307.N1	05-MAR-2005 03:49:50	Dark	50.000	116	19Del Sgr	2.7000	4100.0	100	15746	No
86	GOM_NL__2PRFIN20050305_035131_000000662035_00161_15746_8308.N1	05-MAR-2005 03:51:31	Dark	66.000	86	35Eta Oph	2.4300	10200.	132	15746	No
87	GOM_NL__2PRFIN20050305_035441_000000542035_00161_15746_8309.N1	05-MAR-2005 03:54:41	Dark	53.500	40	The Sco	1.8590	7100.0	107	15746	No
88	GOM_NL__2PRFIN20050305_040010_000000482035_00162_15747_8273.N1	05-MAR-2005 04:00:10	Dark	48.000	43	Alp TrA	1.9100	4250.0	96	15747	No
89	GOM_NL__2PRFIN20050305_040222_000000372035_00162_15747_8274.N1	05-MAR-2005 04:02:22	Dark	37.000	145	Gam TrA	2.8720	10600.	74	15747	No
90	GOM_NL__2PRFIN20050305_040350_000000462035_00162_15747_8275.N1	05-MAR-2005 04:03:50	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	15747	No
91	GOM_NL__2PRFIN20050305_040508_000000432035_00162_15747_8276.N1	05-MAR-2005 04:05:08	Dark	42.500	10	Bet Cen	0.61000	28000.	85	15747	No
92	GOM_NL__2PRFIN20050305_040733_000000462035_00162_15747_8277.N1	05-MAR-2005 04:07:33	Dark	46.000	12	Alp1Cru	0.77500	30000.	92	15747	No
93	GOM_NL__2PRFIN20050305_040912_000000372035_00162_15747_8278.N1	05-MAR-2005 04:09:12	Dark	36.500	124	The Car	2.7640	30000.	73	15747	No
94	GOM_NL__2PRFIN20050305_041127_000000382035_00162_15747_8279.N1	05-MAR-2005 04:11:27	Straylight	38.000	71	lot Car	2.2460	7700.0	76	15747	No
95	GOM_NL__2PRFIN20050305_041259_000000422035_00162_15747_8280.N1	05-MAR-2005 04:12:59	Straylight	41.500	113	Mu Vel	2.6920	5000.0	83	15747	No
96	GOM_NL__2PRFIN20050305_041554_000000432035_00162_15747_8281.N1	05-MAR-2005 04:15:54	Straylight	42.500	65	Lam Vel	2.2040	4400.0	85	15747	No
97	GOM_NL__2PRFIN20050305_041840_000000662035_00162_15747_8282.N1	05-MAR-2005 04:18:40	Straylight	65.500	106	9Bet Crv	2.6480	5600.0	131	15747	No
98	GOM_NL__2PRFIN20050305_042128_000000622035_00162_15747_8283.N1	05-MAR-2005 04:21:28	Straylight	62.000	100	4Gam Crv	2.5800	13100.	124	15747	No
99	GOM_NL__2PRFIN20050305_042522_000000462035_00162_15747_8284.N1	05-MAR-2005 04:25:22	Tw_i_and_stray	46.000	48	30Alp Hya	1.9770	4100.0	92	15747	No
100	GOM_NL__2PRFIN20050305_043117_000000432035_00162_15747_8285.N1	05-MAR-2005 04:31:17	Bright	42.500	22	32Alp Leo	1.3600	15200.	85	15747	No
101	GOM_NL__2PRFIN20050305_043347_000000432035_00162_15747_8286.N1	05-MAR-2005 04:33:47	Bright	42.500	51	41Gam1Leo	2.0100	4500.0	85	15747	No

102	GOM_NL__2PRFIN20050305_043515_000000482035_00162_15747_8287.N1	05-MAR-2005 04:35:15	Bright	48.000	96	68Del Leo	2.5600	9300.0	96	15747	No
103	GOM_NL__2PRFIN20050305_043801_000000372035_00162_15747_8288.N1	05-MAR-2005 04:38:01	Bright	37.000	24	66Alp Gem	1.5800	10200.	74	15747	No
104	GOM_NL__2PRFIN20050305_044222_000000442035_00162_15747_8289.N1	05-MAR-2005 04:42:22	Bright	43.500	174	52Psi UMa	3.0040	4400.0	87	15747	No
105	GOM_NL__2PRFIN20050305_044517_000000402035_00162_15747_8290.N1	05-MAR-2005 04:45:17	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	15747	No
106	GOM_NL__2PRFIN20050305_044640_000000412035_00162_15747_8291.N1	05-MAR-2005 04:46:40	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	15747	No
107	GOM_NL__2PRFIN20050305_044927_000000482035_00162_15747_8292.N1	05-MAR-2005 04:49:27	Bright	48.000	32	77Eps UMa	1.7630	11000.	96	15747	No
108	GOM_NL__2PRFIN20050305_045058_000000522035_00162_15747_8293.N1	05-MAR-2005 04:50:58	Bright	52.000	55	79Zet UMa	2.0600	10200.	104	15747	No
109	GOM_NL__2PRFIN20050305_045315_000000352035_00162_15747_8294.N1	05-MAR-2005 04:53:15	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	15747	No
110	GOM_NL__2PRFIN20050305_045827_000000472035_00162_15747_8295.N1	05-MAR-2005 04:58:27	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	15747	No
111	GOM_NL__2PRFIN20050305_050052_000000342035_00162_15747_8296.N1	05-MAR-2005 05:00:52	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	15747	No

### 3. Quality information per product

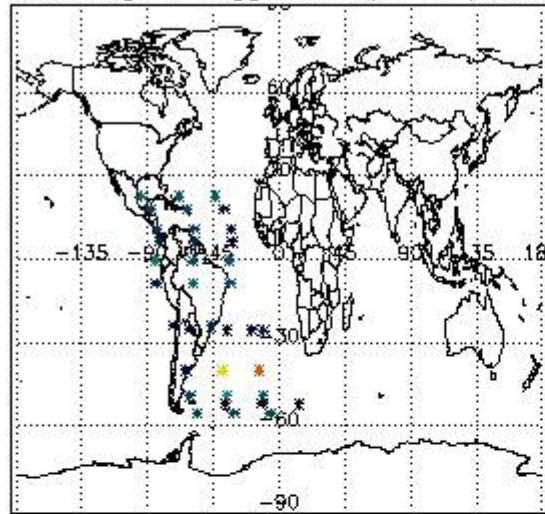
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

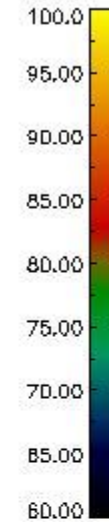
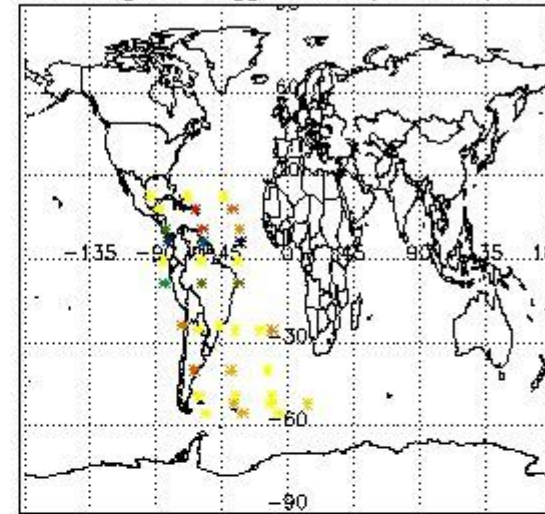


#### 3.2 Plot quality information per product (world map)

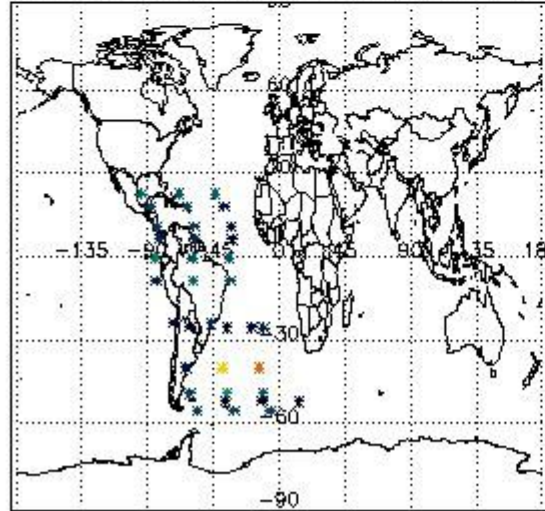
Percentage of flagged data per O3 profile



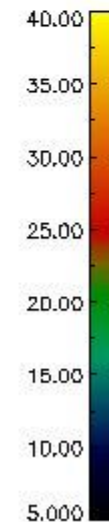
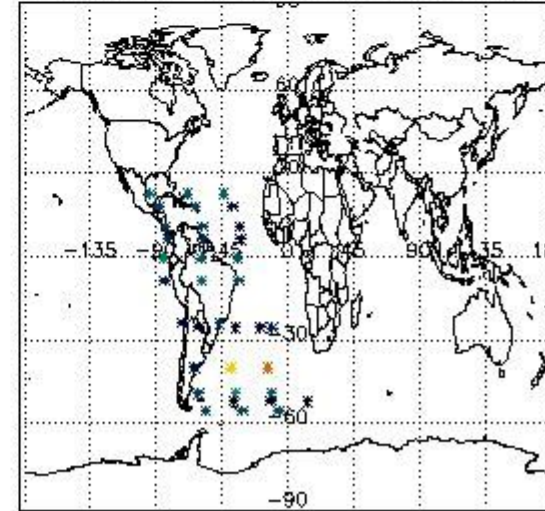
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

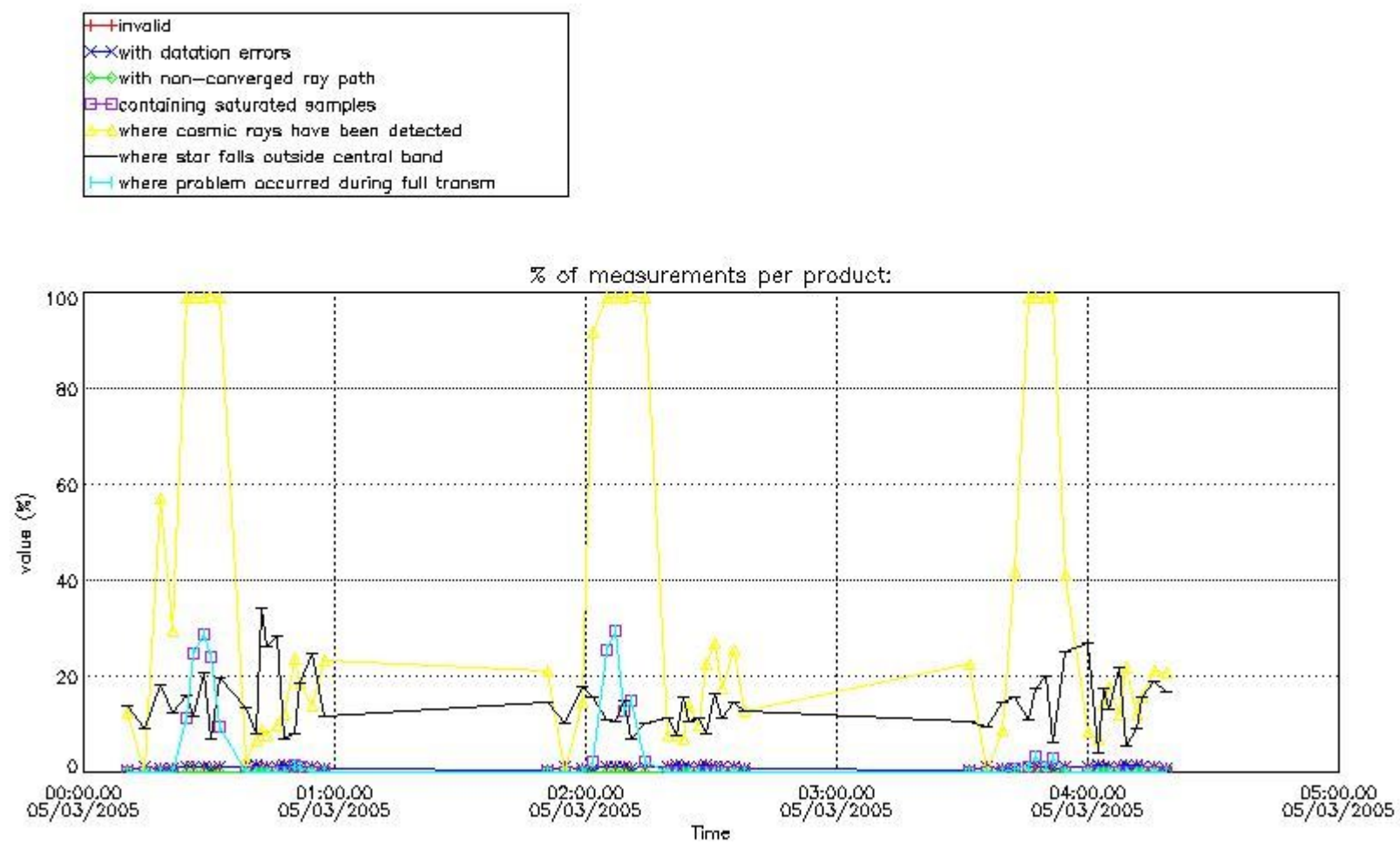


#### 4. Level 1 quality information per product

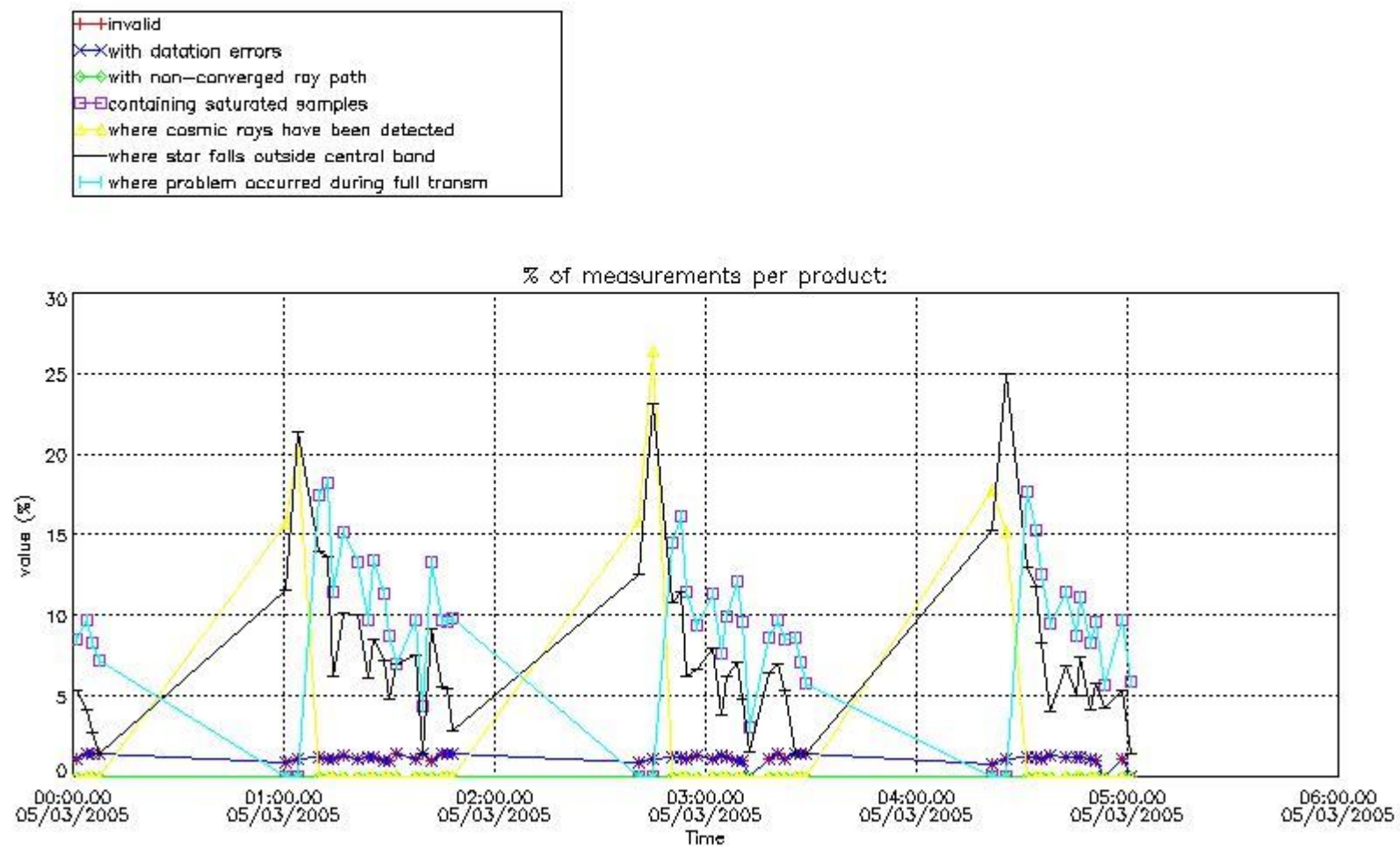
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



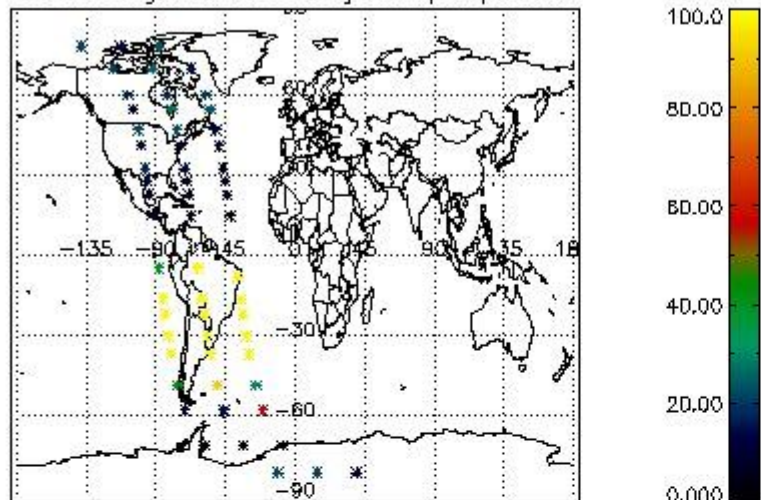
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



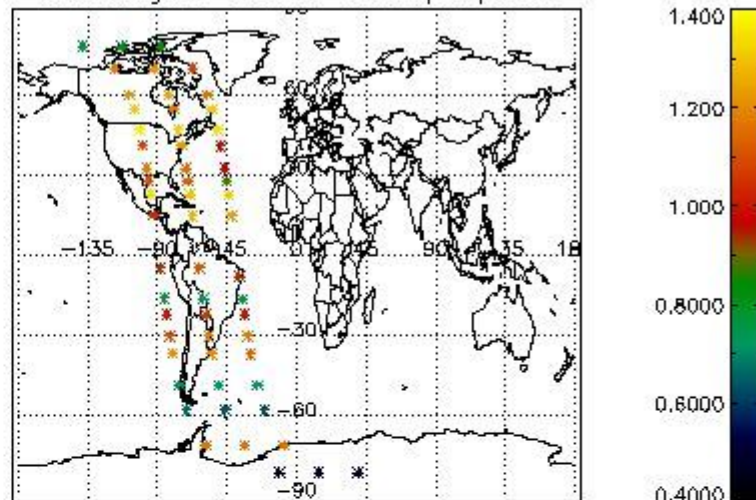
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

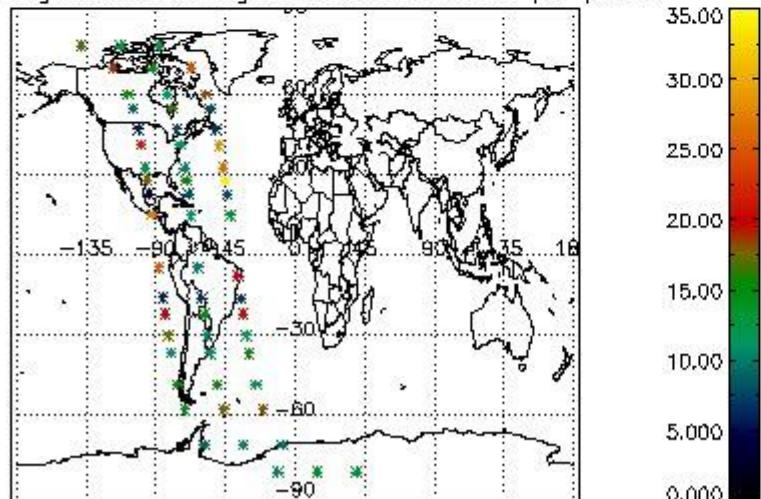
Percentage of cosmic ray hits per profile



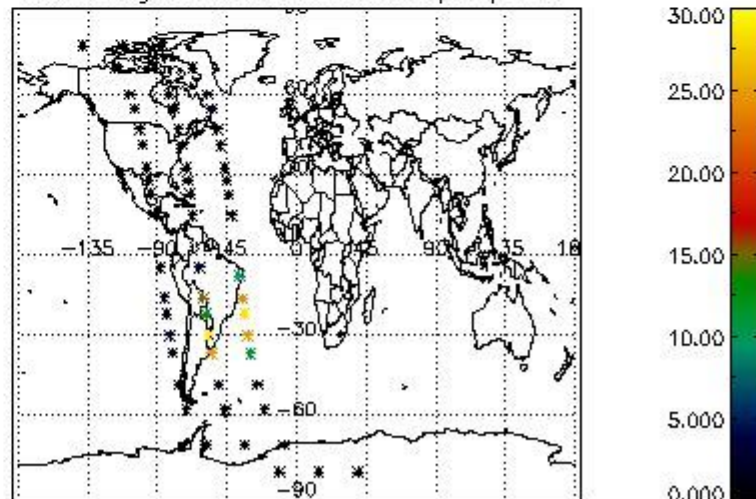
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

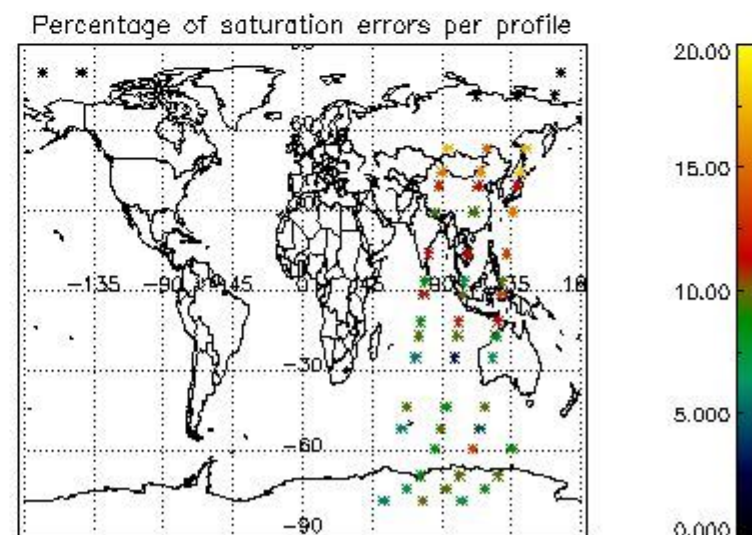
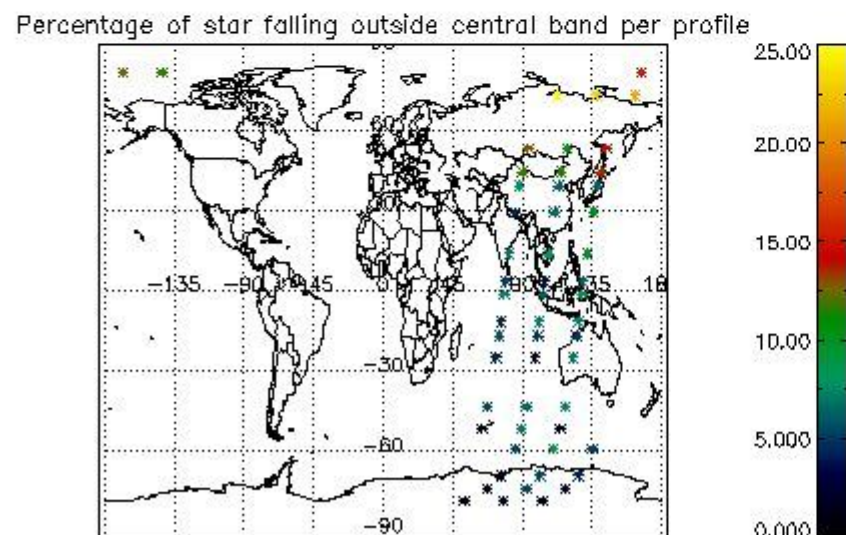
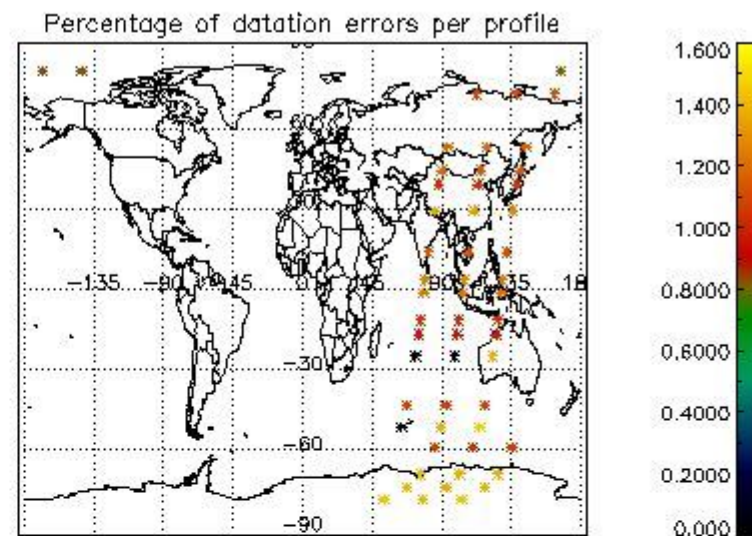
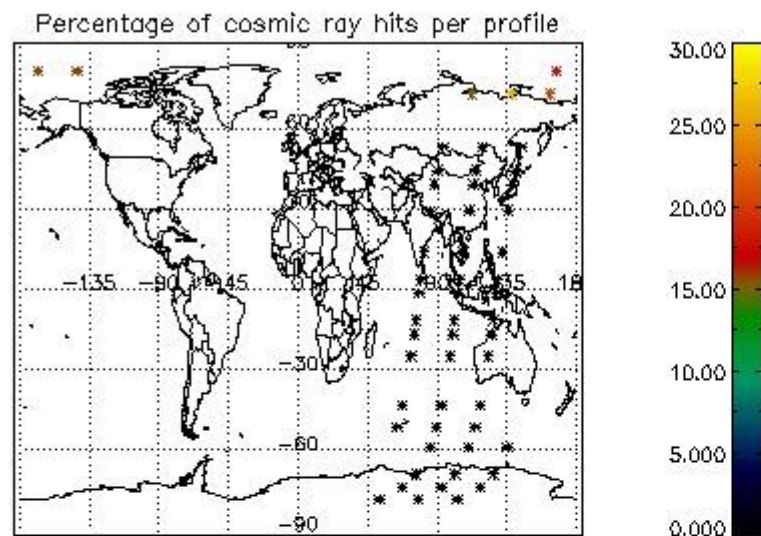


Percentage of saturation errors per profile



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

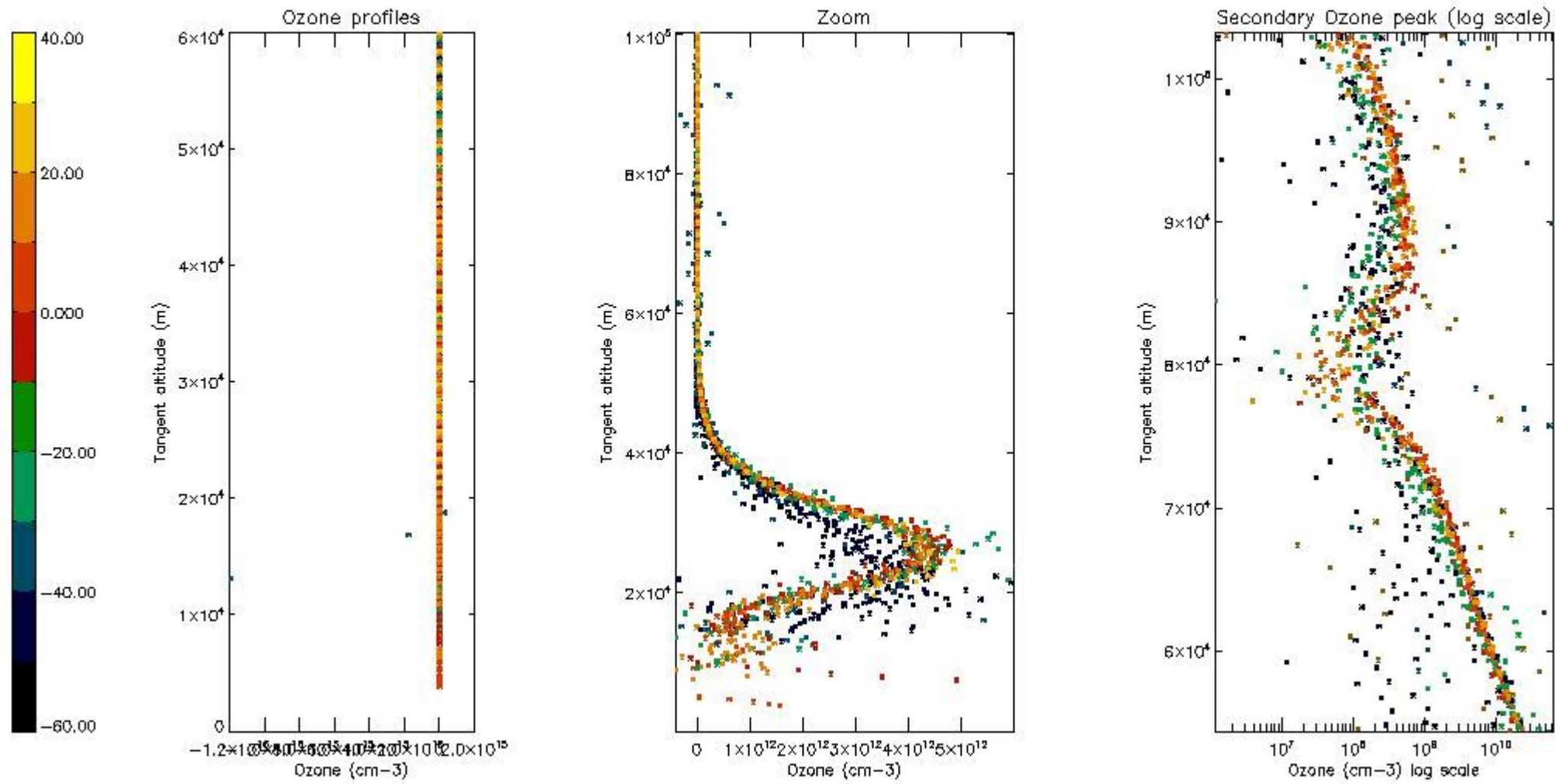
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	16

STD < 10	12
STD < 5	8

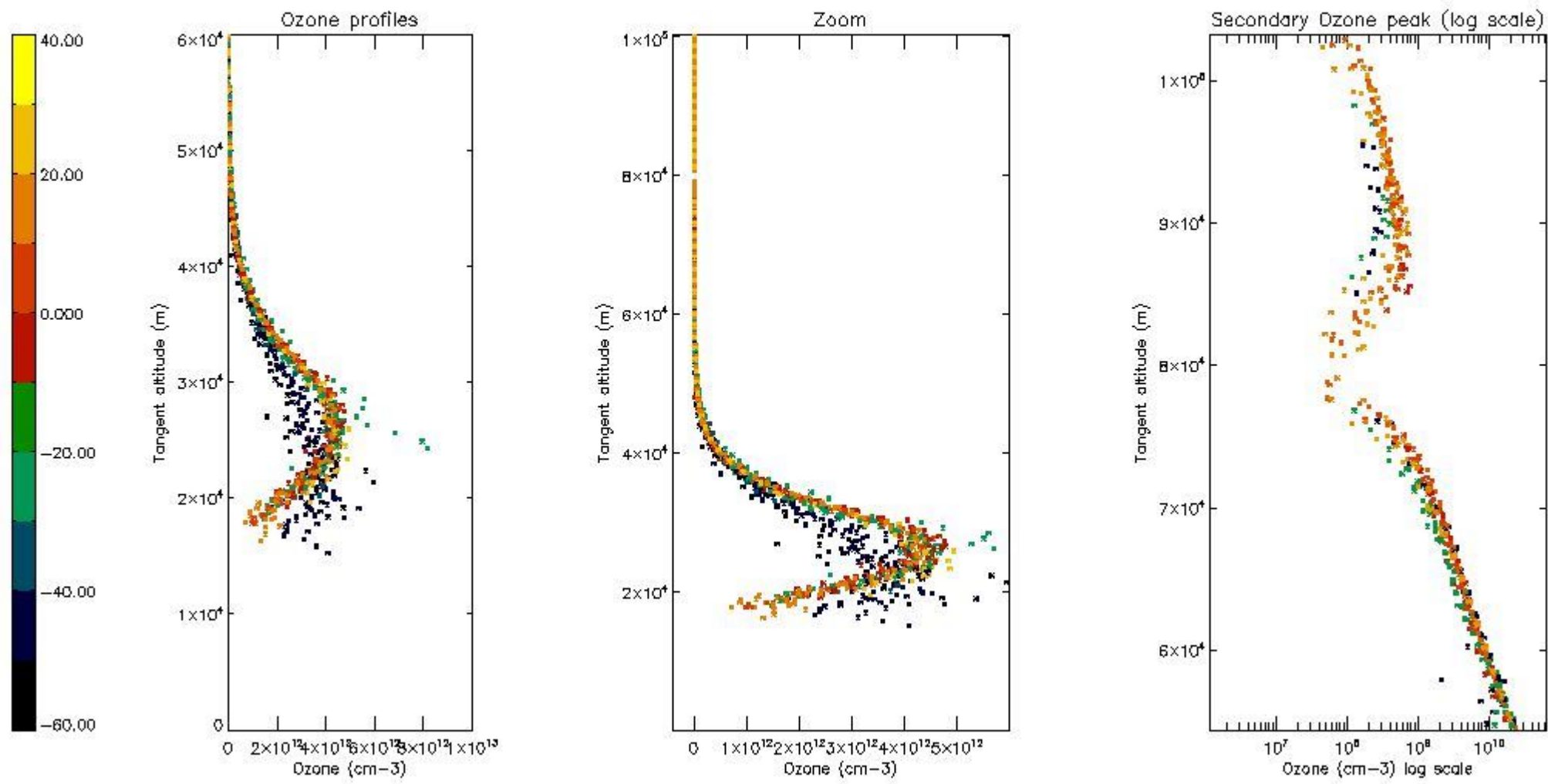
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



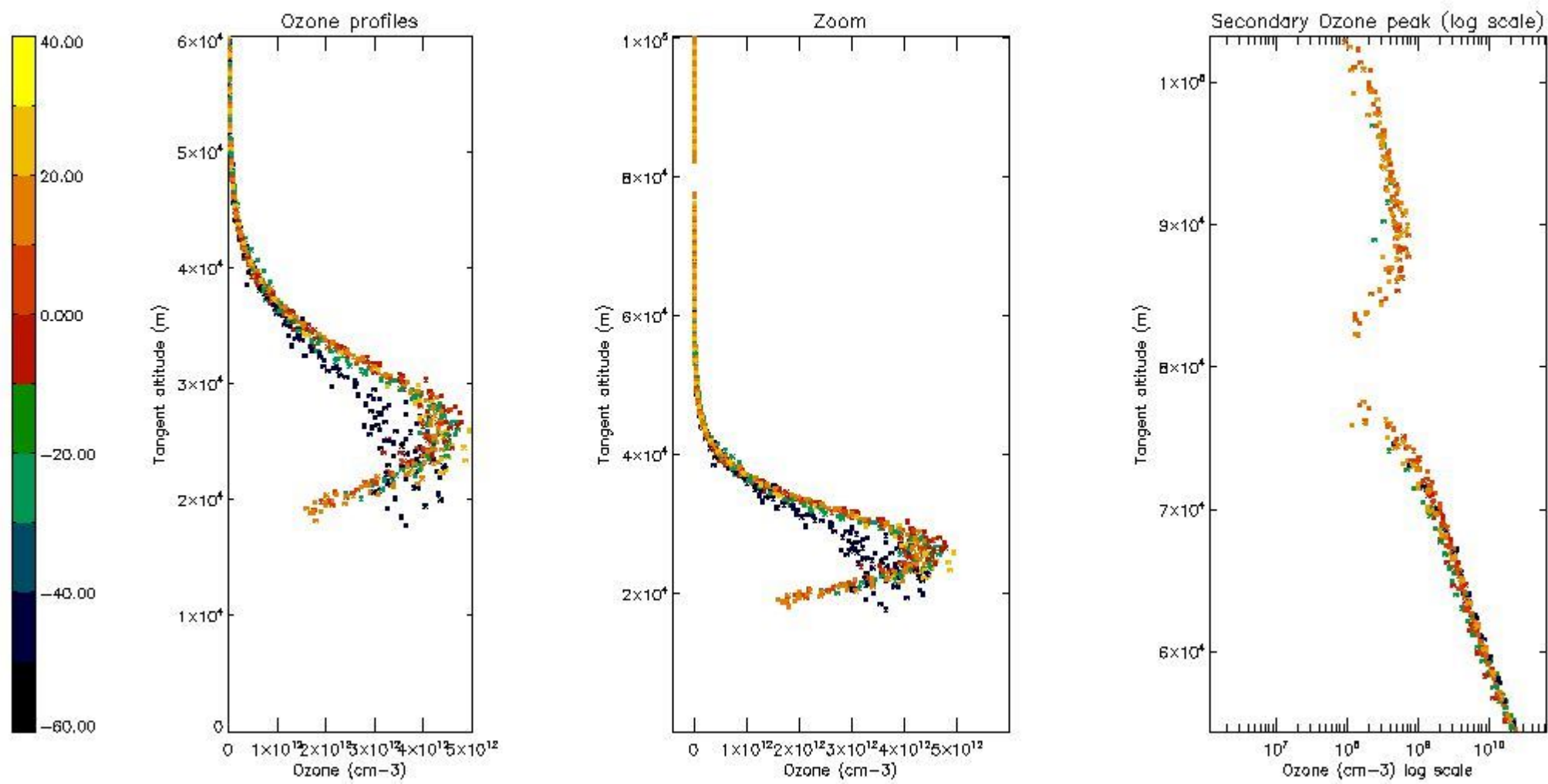
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



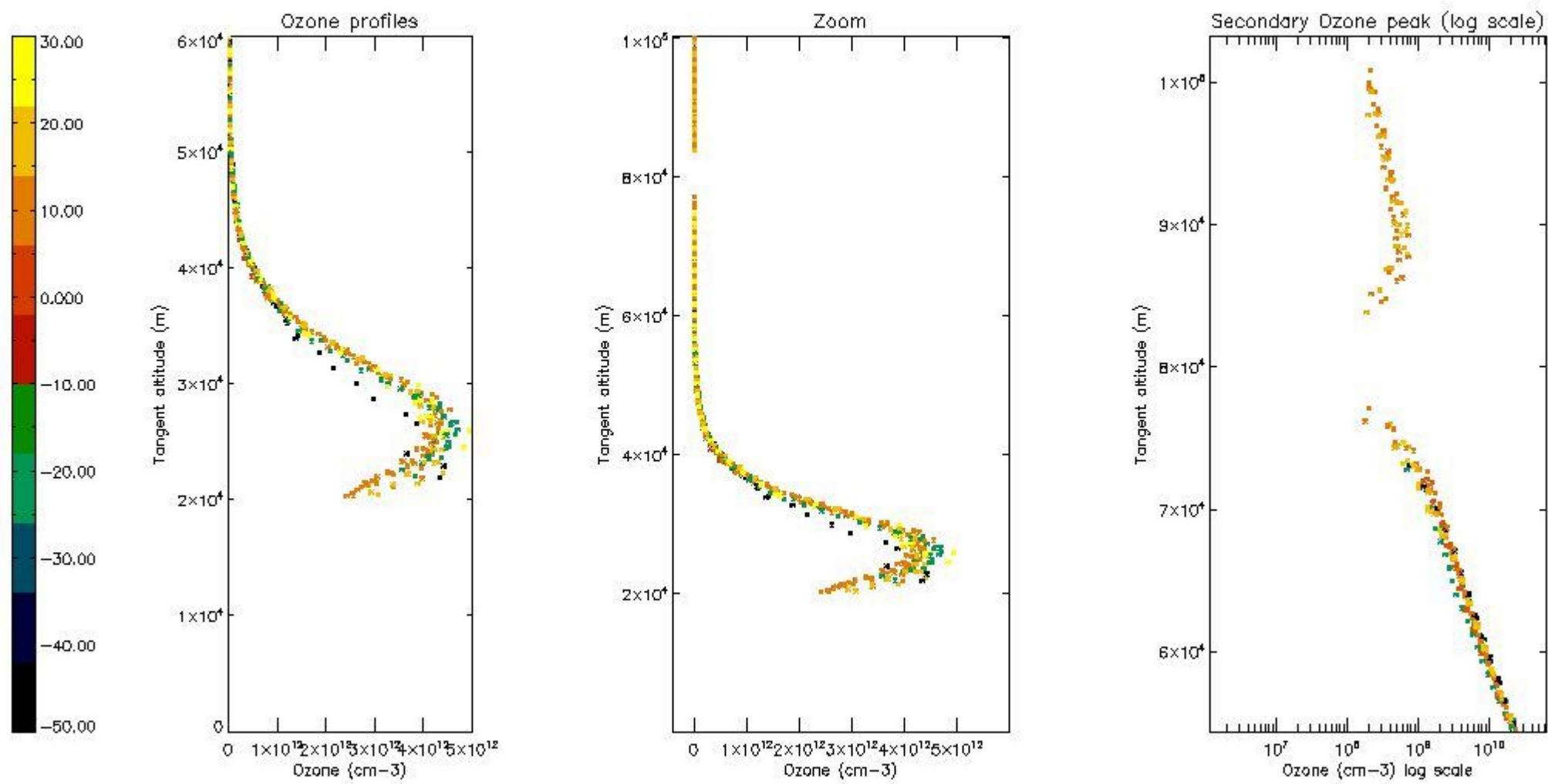
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



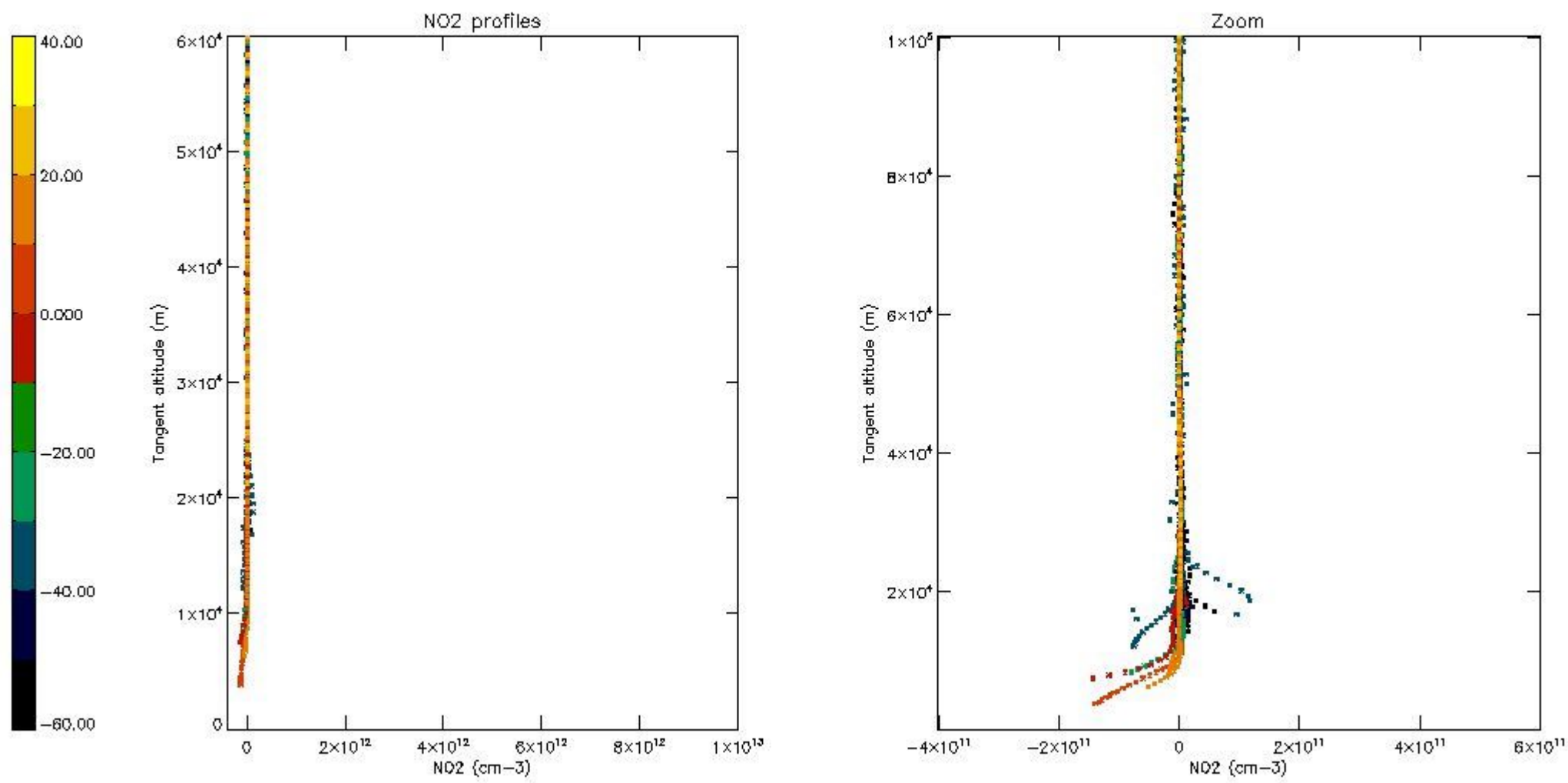
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



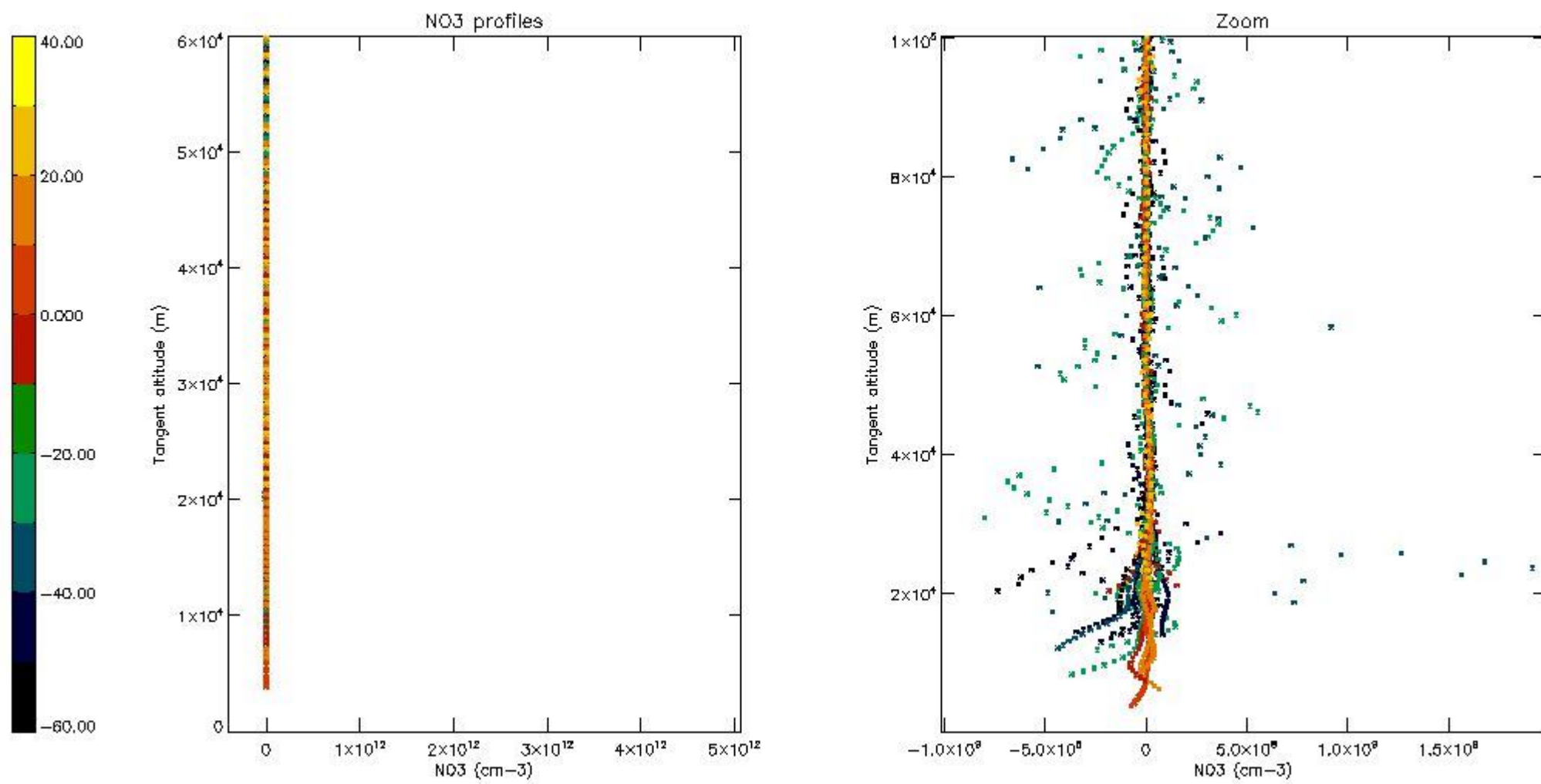
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



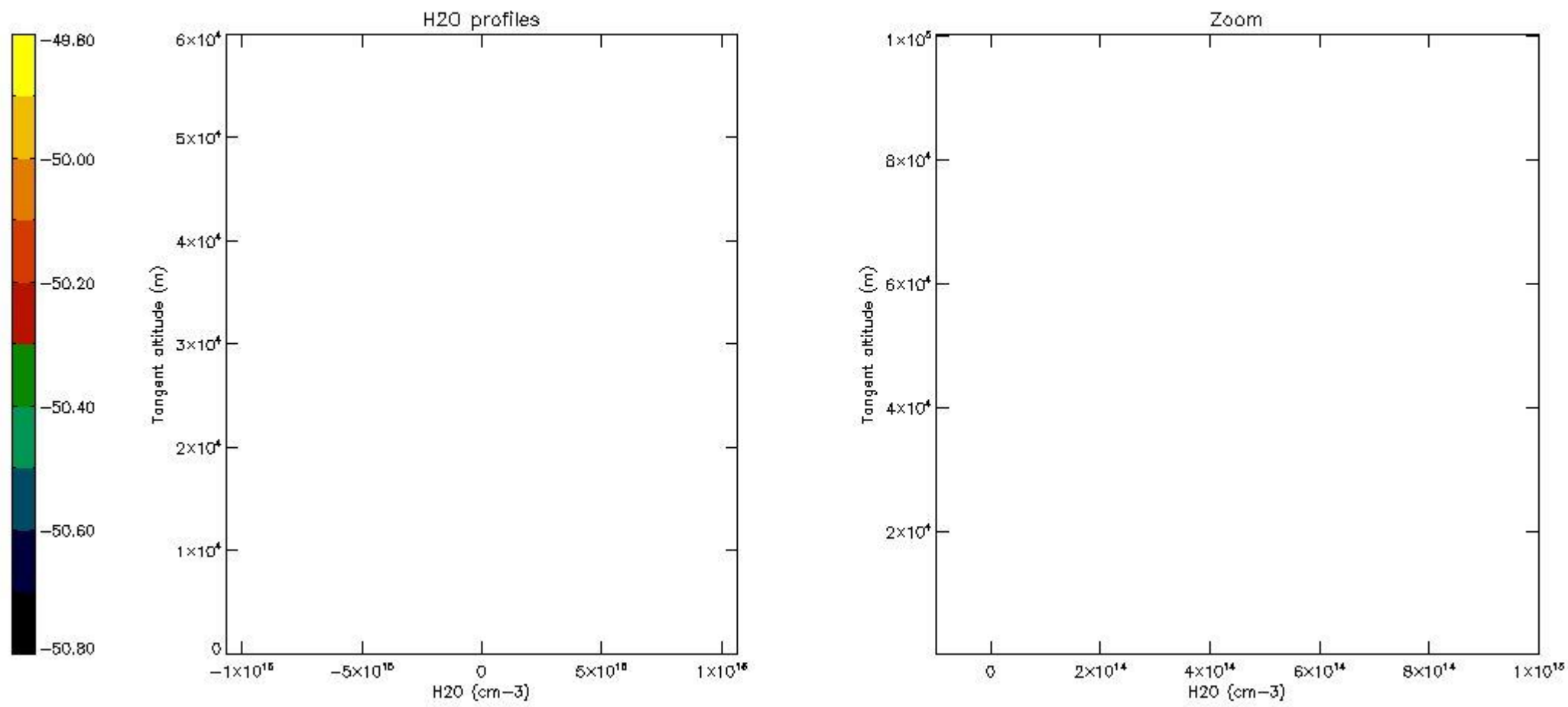
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	05-MAR-2005 00:01:14
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	05-MAR-2005 00:01:14
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	05-MAR-2005 00:01:14



# 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	18APR2013 09:35:50
Data source version	GOMOS/6.01
Start time of products	05-03-2005 (05MAR2005 00:00:00)
Stop time of products	06-03-2005 (06MAR2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	111
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__2PRFIN20050305_000114_000000472035_00159_15744_8297.N1	05-MAR-2005 00:01:14	Bright	47.000	130	23Bet Dra	2.7990	5800.0	94	15744	No
2	GOM_NL__2PRFIN20050305_000409_000000362035_00159_15744_8298.N1	05-MAR-2005 00:04:09	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	15744	No
3	GOM_NL__2PRFIN20050305_000543_000000362035_00159_15744_8299.N1	05-MAR-2005 00:05:43	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	15744	No
4	GOM_NL__2PRFIN20050305_000718_000000352035_00159_15744_8300.N1	05-MAR-2005 00:07:18	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	15744	No
5	GOM_NL__2PRFIN20050305_001025_000000992035_00159_15744_8301.N1	05-MAR-2005 00:10:25	Twilight	98.500	133	40Zet Her	2.8070	6000.0	197	15744	No
6	GOM_NL__2PRFIN20050305_001431_000000442035_00159_15744_8302.N1	05-MAR-2005 00:14:31	Bright	43.500	168	17Zet Aql	2.9860	11000.	87	15744	No
7	GOM_NL__2PRFIN20050305_001826_000000802035_00159_15744_8303.N1	05-MAR-2005 00:18:26	Straylight	79.500	59	55Alp Oph	2.0800	8900.0	159	15744	No
8	GOM_NL__2PRFIN20050305_002104_000000682035_00159_15744_8304.N1	05-MAR-2005 00:21:04	Dark	68.000	126	60Bet Oph	2.7700	4250.0	136	15744	No
9	GOM_NL__2PRFIN20050305_002427_000000442035_00159_15744_8305.N1	05-MAR-2005 00:24:27	Dark	44.000	155	41Pi Sgr	2.9000	6600.0	88	15744	No
10	GOM_NL__2PRFIN20050305_002620_000000432035_00159_15744_8306.N1	05-MAR-2005 00:26:20	Dark	42.500	57	34Sig Sgr	2.0660	26000.	85	15744	No
11	GOM_NL__2PRFIN20050305_002837_000000512035_00159_15744_8307.N1	05-MAR-2005 00:28:37	Dark	50.500	116	19Del Sgr	2.7000	4100.0	101	15744	No
12	GOM_NL__2PRFIN20050305_003016_000000672035_00159_15744_8308.N1	05-MAR-2005 00:30:16	Dark	66.500	86	35Eta Oph	2.4300	10200.	133	15744	No
13	GOM_NL__2PRFIN20050305_003236_000000532035_00159_15744_8309.N1	05-MAR-2005 00:32:36	Dark	53.000	25	35Lam Sco	1.6200	28000.	106	15744	No
14	GOM_NL__2PRFIN20050305_003857_000000412035_00160_15745_8273.N1	05-MAR-2005 00:38:57	Dark	40.500	43	Alp TrA	1.9100	4250.0	81	15745	No
15	GOM_NL__2PRFIN20050305_004110_000000382035_00160_15745_8274.N1	05-MAR-2005 00:41:10	Dark	38.000	145	Gam TrA	2.8720	10600.	76	15745	No
16	GOM_NL__2PRFIN20050305_004237_000000572035_00160_15745_8275.N1	05-MAR-2005 00:42:37	Dark	57.000	4	Alp1Cen	-0.010000	5800.0	114	15745	No
17	GOM_NL__2PRFIN20050305_004355_000000522035_00160_15745_8276.N1	05-MAR-2005 00:43:55	Dark	51.500	10	Bet Cen	0.61000	28000.	103	15745	No
18	GOM_NL__2PRFIN20050305_004620_000000512035_00160_15745_8277.N1	05-MAR-2005 00:46:20	Dark	51.000	12	Alp1Cru	0.77500	30000.	102	15745	No
19	GOM_NL__2PRFIN20050305_004759_000000372035_00160_15745_8278.N1	05-MAR-2005 00:47:59	Dark	37.000	124	The Car	2.7640	30000.	74	15745	No
20	GOM_NL__2PRFIN20050305_005015_000000382035_00160_15745_8279.N1	05-MAR-2005 00:50:15	Straylight	38.000	71	Iot Car	2.2460	7700.0	76	15745	No
21	GOM_NL__2PRFIN20050305_005146_000000442035_00160_15745_8280.N1	05-MAR-2005 00:51:46	Straylight	43.500	113	Mu Vel	2.6920	5000.0	87	15745	No
22	GOM_NL__2PRFIN20050305_005442_000000472035_00160_15745_8281.N1	05-MAR-2005 00:54:42	Straylight	46.500	65	Lam Vel	2.2040	4400.0	93	15745	No
23	GOM_NL__2PRFIN20050305_005727_000000612035_00160_15745_8282.N1	05-MAR-2005 00:57:27	Straylight	60.500	106	9Bet Crv	2.6480	5600.0	121	15745	No
24	GOM_NL__2PRFIN20050305_010015_000000612035_00160_15745_8283.N1	05-MAR-2005 01:00:15	Straylight	60.500	100	4Gam Crv	2.5800	13100.	121	15745	No
25	GOM_NL__2PRFIN20050305_010409_000000452035_00160_15745_8284.N1	05-MAR-2005 01:04:09	Twilight	44.500	48	30Alp Hya	1.9770	4100.0	89	15745	No
26	GOM_NL__2PRFIN20050305_011005_000000432035_00160_15745_8285.N1	05-MAR-2005 01:10:05	Bright	43.000	22	32Alp Leo	1.3600	15200.	86	15745	No
27	GOM_NL__2PRFIN20050305_011235_000000442035_00160_15745_8286.N1	05-MAR-2005 01:12:35	Bright	44.000	51	41Gam1Leo	2.0100	4500.0	88	15745	No
28	GOM_NL__2PRFIN20050305_011404_000000482035_00160_15745_8287.N1	05-MAR-2005 01:14:04	Bright	48.000	96	68Del Leo	2.5600	9300.0	96	15745	No
29	GOM_NL__2PRFIN20050305_011648_000000402035_00160_15745_8288.N1	05-MAR-2005 01:16:48	Bright	39.500	24	66Alp Gem	1.5800	10200.	79	15745	No
30	GOM_NL__2PRFIN20050305_012111_000000452035_00160_15745_8289.N1	05-MAR-2005 01:21:11	Bright	45.000	174	52Psi UMa	3.0040	4400.0	90	15745	No
31	GOM_NL__2PRFIN20050305_012405_000000412035_00160_15745_8290.N1	05-MAR-2005 01:24:05	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	15745	No
32	GOM_NL__2PRFIN20050305_012528_000000412035_00160_15745_8291.N1	05-MAR-2005 01:25:28	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	15745	No
33	GOM_NL__2PRFIN20050305_012816_000000492035_00160_15745_8292.N1	05-MAR-2005 01:28:16	Bright	48.500	32	77Eps UMa	1.7630	11000.	97	15745	No
34	GOM_NL__2PRFIN20050305_012948_000000522035_00160_15745_8293.N1	05-MAR-2005 01:29:48	Bright	51.500	55	79Zet UMa	2.0600	10200.	103	15745	No
35	GOM_NL__2PRFIN20050305_013203_000000362035_00160_15745_8294.N1	05-MAR-2005 01:32:03	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	15745	No
36	GOM_NL__2PRFIN20050305_013716_000000472035_00160_15745_8295.N1	05-MAR-2005 01:37:16	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	15745	No
37	GOM_NL__2PRFIN20050305_013939_000000342035_00160_15745_8296.N1	05-MAR-2005 01:39:39	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	15745	No
38	GOM_NL__2PRFIN20050305_014150_000000492035_00160_15745_8297.N1	05-MAR-2005 01:41:50	Bright	49.000	130	23Bet Dra	2.7990	5800.0	98	15745	No
39	GOM_NL__2PRFIN20050305_014445_000000362035_00160_15745_8298.N1	05-MAR-2005 01:44:45	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	15745	No
40	GOM_NL__2PRFIN20050305_014619_000000372035_00160_15745_8299.N1	05-MAR-2005 01:46:19	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	15745	No
41	GOM_NL__2PRFIN20050305_014754_000000362035_00160_15745_8300.N1	05-MAR-2005 01:47:54	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	15745	No
42	GOM_NL__2PRFIN20050305_015101_000001002035_00160_15745_8301.N1	05-MAR-2005 01:51:01	Twilight	100.00	133	40Zet Her	2.8070	6000.0	200	15745	No

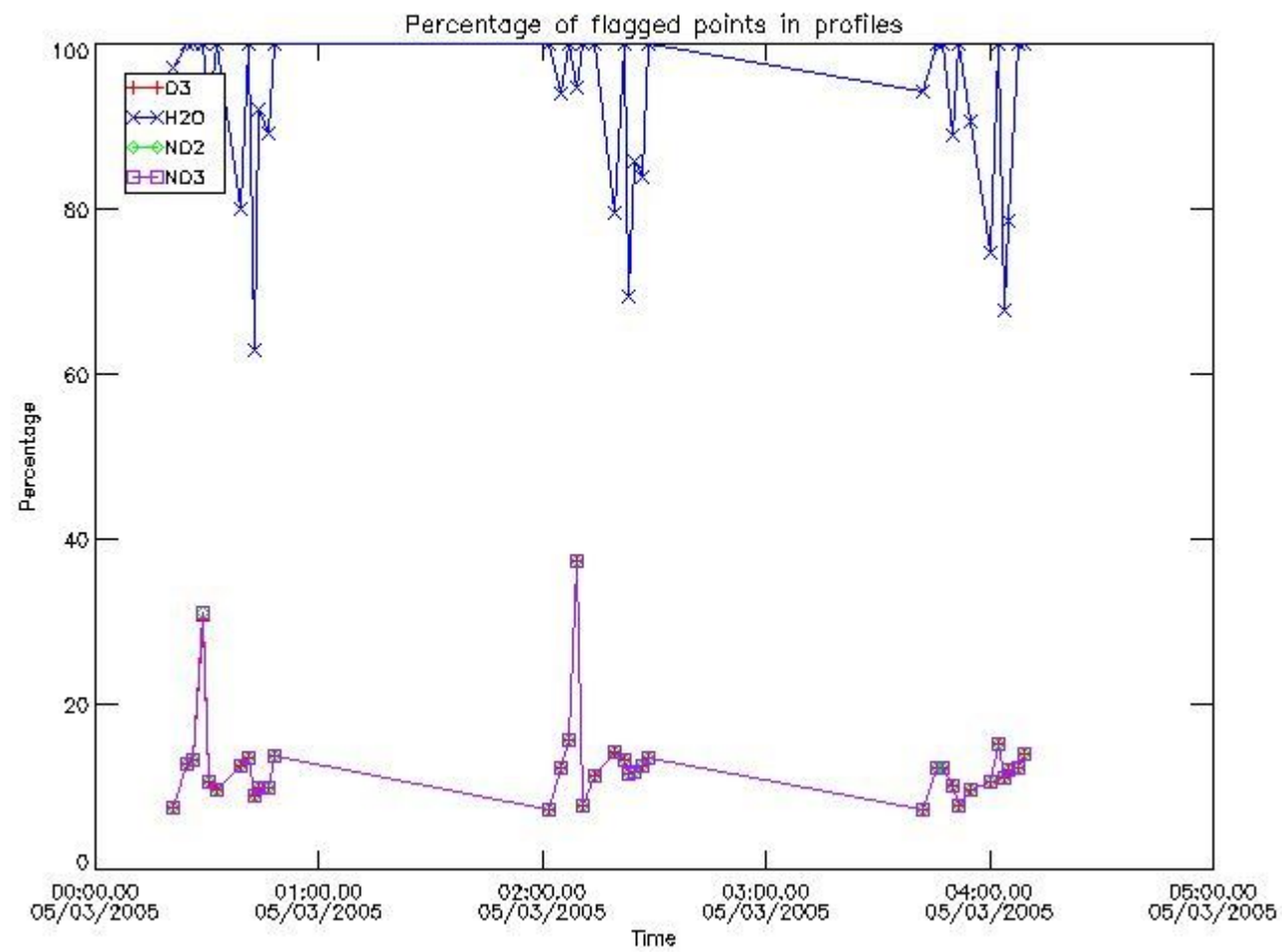
43	GOM_NL__2PRFIN20050305_015507_000000442035_00160_15745_8302.N1	05-MAR-2005 01:55:07	Bright	43.500	168	17Zet Aql	2.9860	11000.	87	15745	No
44	GOM_NL__2PRFIN20050305_015903_000000792035_00160_15745_8303.N1	05-MAR-2005 01:59:03	Straylight	79.000	59	55Alp Oph	2.0800	8900.0	158	15745	No
45	GOM_NL__2PRFIN20050305_020141_000000712035_00160_15745_8304.N1	05-MAR-2005 02:01:41	Dark	70.500	126	60Bet Oph	2.7700	4250.0	141	15745	No
46	GOM_NL__2PRFIN20050305_020504_000000422035_00160_15745_8305.N1	05-MAR-2005 02:05:04	Dark	41.500	155	41Pi Sgr	2.9000	6600.0	83	15745	No
47	GOM_NL__2PRFIN20050305_020656_000000432035_00160_15745_8306.N1	05-MAR-2005 02:06:56	Dark	42.500	57	34Sig Sgr	2.0660	26000.	85	15745	No
48	GOM_NL__2PRFIN20050305_020913_000000482035_00160_15745_8307.N1	05-MAR-2005 02:09:13	Dark	47.500	116	19Del Sgr	2.7000	4100.0	95	15745	No
49	GOM_NL__2PRFIN20050305_021053_000000672035_00160_15745_8308.N1	05-MAR-2005 02:10:53	Dark	66.500	86	35Eta Oph	2.4300	10200.	133	15745	No
50	GOM_NL__2PRFIN20050305_021404_000000452035_00160_15745_8309.N1	05-MAR-2005 02:14:04	Dark	45.000	40	The Sco	1.8590	7100.0	90	15745	No
51	GOM_NL__2PRFIN20050305_021933_000000402035_00161_15746_8273.N1	05-MAR-2005 02:19:33	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	15746	No
52	GOM_NL__2PRFIN20050305_022146_000000392035_00161_15746_8274.N1	05-MAR-2005 02:21:46	Dark	38.500	145	Gam TrA	2.8720	10600.	77	15746	No
53	GOM_NL__2PRFIN20050305_022313_000000452035_00161_15746_8275.N1	05-MAR-2005 02:23:13	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	15746	No
54	GOM_NL__2PRFIN20050305_022431_000000432035_00161_15746_8276.N1	05-MAR-2005 02:24:31	Dark	43.000	10	Bet Cen	0.61000	28000.	86	15746	No
55	GOM_NL__2PRFIN20050305_022656_000000412035_00161_15746_8277.N1	05-MAR-2005 02:26:56	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	15746	No
56	GOM_NL__2PRFIN20050305_022835_000000382035_00161_15746_8278.N1	05-MAR-2005 02:28:35	Dark	38.000	124	The Car	2.7640	30000.	76	15746	No
57	GOM_NL__2PRFIN20050305_023051_000000432035_00161_15746_8279.N1	05-MAR-2005 02:30:51	Straylight	42.500	71	lot Car	2.2460	7700.0	85	15746	No
58	GOM_NL__2PRFIN20050305_023222_000000402035_00161_15746_8280.N1	05-MAR-2005 02:32:22	Straylight	40.000	113	Mu Vel	2.6920	5000.0	80	15746	No
59	GOM_NL__2PRFIN20050305_023518_000000412035_00161_15746_8281.N1	05-MAR-2005 02:35:18	Straylight	41.000	65	Lam Vel	2.2040	4400.0	82	15746	No
60	GOM_NL__2PRFIN20050305_023803_000000622035_00161_15746_8282.N1	05-MAR-2005 02:38:03	Straylight	62.000	106	9Bet Crv	2.6480	5600.0	124	15746	No
61	GOM_NL__2PRFIN20050305_024051_000000602035_00161_15746_8283.N1	05-MAR-2005 02:40:51	Straylight	60.000	100	4Gam Crv	2.5800	13100.	120	15746	No
62	GOM_NL__2PRFIN20050305_024445_000000462035_00161_15746_8284.N1	05-MAR-2005 02:44:45	Tw_i_and_stray	45.500	48	30Alp Hya	1.9770	4100.0	91	15746	No
63	GOM_NL__2PRFIN20050305_025041_000000422035_00161_15746_8285.N1	05-MAR-2005 02:50:41	Bright	41.500	22	32Alp Leo	1.3600	15200.	83	15746	No
64	GOM_NL__2PRFIN20050305_025311_000000442035_00161_15746_8286.N1	05-MAR-2005 02:53:11	Bright	43.500	51	41Gam1Leo	2.0100	4500.0	87	15746	No
65	GOM_NL__2PRFIN20050305_025440_000000482035_00161_15746_8287.N1	05-MAR-2005 02:54:40	Bright	48.000	96	68Del Leo	2.5600	9300.0	96	15746	No
66	GOM_NL__2PRFIN20050305_025725_000000382035_00161_15746_8288.N1	05-MAR-2005 02:57:25	Bright	37.500	24	66Alp Gem	1.5800	10200.	75	15746	No
67	GOM_NL__2PRFIN20050305_030147_000000442035_00161_15746_8289.N1	05-MAR-2005 03:01:47	Bright	44.000	174	52Psi UMa	3.0040	4400.0	88	15746	No
68	GOM_NL__2PRFIN20050305_030441_000000402035_00161_15746_8290.N1	05-MAR-2005 03:04:41	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	15746	No
69	GOM_NL__2PRFIN20050305_030604_000000412035_00161_15746_8291.N1	05-MAR-2005 03:06:04	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	15746	No
70	GOM_NL__2PRFIN20050305_030851_000000502035_00161_15746_8292.N1	05-MAR-2005 03:08:51	Bright	49.500	32	77Eps UMa	1.7630	11000.	99	15746	No
71	GOM_NL__2PRFIN20050305_031023_000000522035_00161_15746_8293.N1	05-MAR-2005 03:10:23	Bright	52.000	55	79Zet UMa	2.0600	10200.	104	15746	No
72	GOM_NL__2PRFIN20050305_031239_000000332035_00161_15746_8294.N1	05-MAR-2005 03:12:39	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	15746	No
73	GOM_NL__2PRFIN20050305_031751_000000472035_00161_15746_8295.N1	05-MAR-2005 03:17:51	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	15746	No
74	GOM_NL__2PRFIN20050305_032015_000000362035_00161_15746_8296.N1	05-MAR-2005 03:20:15	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	15746	No
75	GOM_NL__2PRFIN20050305_032225_000000472035_00161_15746_8297.N1	05-MAR-2005 03:22:25	Bright	47.000	130	23Bet Dra	2.7990	5800.0	94	15746	No
76	GOM_NL__2PRFIN20050305_032521_000000352035_00161_15746_8298.N1	05-MAR-2005 03:25:21	Bright	35.000	19	50Alp Cyg	1.2460	10500.	70	15746	No
77	GOM_NL__2PRFIN20050305_032655_000000362035_00161_15746_8299.N1	05-MAR-2005 03:26:55	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	15746	No
78	GOM_NL__2PRFIN20050305_032830_000000352035_00161_15746_8300.N1	05-MAR-2005 03:28:30	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	15746	No
79	GOM_NL__2PRFIN20050305_033137_000000962035_00161_15746_8301.N1	05-MAR-2005 03:31:37	Tw_i_and_stray	96.000	133	40Zet Her	2.8070	6000.0	192	15746	No
80	GOM_NL__2PRFIN20050305_033543_000000432035_00161_15746_8302.N1	05-MAR-2005 03:35:43	Bright	43.000	168	17Zet Aql	2.9860	11000.	86	15746	No
81	GOM_NL__2PRFIN20050305_033940_000000762035_00161_15746_8303.N1	05-MAR-2005 03:39:40	Straylight	76.000	59	55Alp Oph	2.0800	8900.0	152	15746	No
82	GOM_NL__2PRFIN20050305_034218_000000712035_00161_15746_8304.N1	05-MAR-2005 03:42:18	Dark	70.500	126	60Bet Oph	2.7700	4250.0	141	15746	No
83	GOM_NL__2PRFIN20050305_034540_000000422035_00161_15746_8305.N1	05-MAR-2005 03:45:40	Dark	41.500	155	41Pi Sgr	2.9000	6600.0	83	15746	No
84	GOM_NL__2PRFIN20050305_034733_000000462035_00161_15746_8306.N1	05-MAR-2005 03:47:33	Dark	46.000	57	34Sig Sgr	2.0660	26000.	92	15746	No
85	GOM_NL__2PRFIN20050305_034950_000000502035_00161_15746_8307.N1	05-MAR-2005 03:49:50	Dark	50.000	116	19Del Sgr	2.7000	4100.0	100	15746	No
86	GOM_NL__2PRFIN20050305_035131_000000662035_00161_15746_8308.N1	05-MAR-2005 03:51:31	Dark	66.000	86	35Eta Oph	2.4300	10200.	132	15746	No
87	GOM_NL__2PRFIN20050305_035441_000000542035_00161_15746_8309.N1	05-MAR-2005 03:54:41	Dark	53.500	40	The Sco	1.8590	7100.0	107	15746	No
88	GOM_NL__2PRFIN20050305_040010_000000482035_00162_15747_8273.N1	05-MAR-2005 04:00:10	Dark	48.000	43	Alp TrA	1.9100	4250.0	96	15747	No
89	GOM_NL__2PRFIN20050305_040222_000000372035_00162_15747_8274.N1	05-MAR-2005 04:02:22	Dark	37.000	145	Gam TrA	2.8720	10600.	74	15747	No
90	GOM_NL__2PRFIN20050305_040350_000000462035_00162_15747_8275.N1	05-MAR-2005 04:03:50	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	15747	No
91	GOM_NL__2PRFIN20050305_040508_000000432035_00162_15747_8276.N1	05-MAR-2005 04:05:08	Dark	42.500	10	Bet Cen	0.61000	28000.	85	15747	No
92	GOM_NL__2PRFIN20050305_040733_000000462035_00162_15747_8277.N1	05-MAR-2005 04:07:33	Dark	46.000	12	Alp1Cru	0.77500	30000.	92	15747	No
93	GOM_NL__2PRFIN20050305_040912_000000372035_00162_15747_8278.N1	05-MAR-2005 04:09:12	Dark	36.500	124	The Car	2.7640	30000.	73	15747	No
94	GOM_NL__2PRFIN20050305_041127_000000382035_00162_15747_8279.N1	05-MAR-2005 04:11:27	Straylight	38.000	71	lot Car	2.2460	7700.0	76	15747	No
95	GOM_NL__2PRFIN20050305_041259_000000422035_00162_15747_8280.N1	05-MAR-2005 04:12:59	Straylight	41.500	113	Mu Vel	2.6920	5000.0	83	15747	No
96	GOM_NL__2PRFIN20050305_041554_000000432035_00162_15747_8281.N1	05-MAR-2005 04:15:54	Straylight	42.500	65	Lam Vel	2.2040	4400.0	85	15747	No
97	GOM_NL__2PRFIN20050305_041840_000000662035_00162_15747_8282.N1	05-MAR-2005 04:18:40	Straylight	65.500	106	9Bet Crv	2.6480	5600.0	131	15747	No
98	GOM_NL__2PRFIN20050305_042128_000000622035_00162_15747_8283.N1	05-MAR-2005 04:21:28	Straylight	62.000	100	4Gam Crv	2.5800	13100.	124	15747	No
99	GOM_NL__2PRFIN20050305_042522_000000462035_00162_15747_8284.N1	05-MAR-2005 04:25:22	Tw_i_and_stray	46.000	48	30Alp Hya	1.9770	4100.0	92	15747	No
100	GOM_NL__2PRFIN20050305_043117_000000432035_00162_15747_8285.N1	05-MAR-2005 04:31:17	Bright	42.500	22	32Alp Leo	1.3600	15200.	85	15747	No
101	GOM_NL__2PRFIN20050305_043347_000000432035_00162_15747_8286.N1	05-MAR-2005 04:33:47	Bright	42.500	51	41Gam1Leo	2.0100	4500.0	85	15747	No

102	GOM_NL__2PRFIN20050305_043515_000000482035_00162_15747_8287.N1	05-MAR-2005 04:35:15	Bright	48.000	96	68Del Leo	2.5600	9300.0	96	15747	No
103	GOM_NL__2PRFIN20050305_043801_000000372035_00162_15747_8288.N1	05-MAR-2005 04:38:01	Bright	37.000	24	66Alp Gem	1.5800	10200.	74	15747	No
104	GOM_NL__2PRFIN20050305_044222_000000442035_00162_15747_8289.N1	05-MAR-2005 04:42:22	Bright	43.500	174	52Psi UMa	3.0040	4400.0	87	15747	No
105	GOM_NL__2PRFIN20050305_044517_000000402035_00162_15747_8290.N1	05-MAR-2005 04:45:17	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	15747	No
106	GOM_NL__2PRFIN20050305_044640_000000412035_00162_15747_8291.N1	05-MAR-2005 04:46:40	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	15747	No
107	GOM_NL__2PRFIN20050305_044927_000000482035_00162_15747_8292.N1	05-MAR-2005 04:49:27	Bright	48.000	32	77Eps UMa	1.7630	11000.	96	15747	No
108	GOM_NL__2PRFIN20050305_045058_000000522035_00162_15747_8293.N1	05-MAR-2005 04:50:58	Bright	52.000	55	79Zet UMa	2.0600	10200.	104	15747	No
109	GOM_NL__2PRFIN20050305_045315_000000352035_00162_15747_8294.N1	05-MAR-2005 04:53:15	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	15747	No
110	GOM_NL__2PRFIN20050305_045827_000000472035_00162_15747_8295.N1	05-MAR-2005 04:58:27	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	15747	No
111	GOM_NL__2PRFIN20050305_050052_000000342035_00162_15747_8296.N1	05-MAR-2005 05:00:52	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	15747	No

### 3. Quality information per product

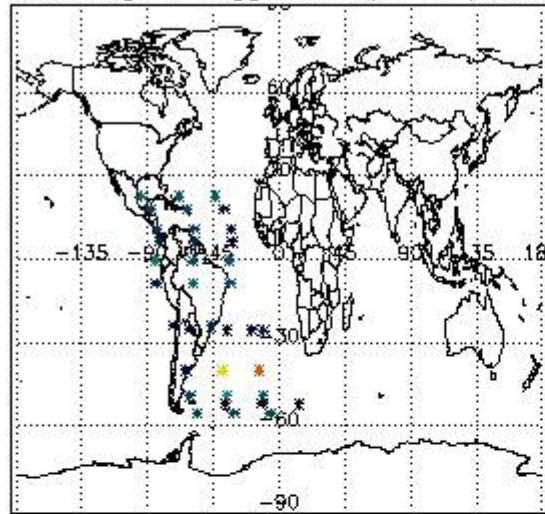
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

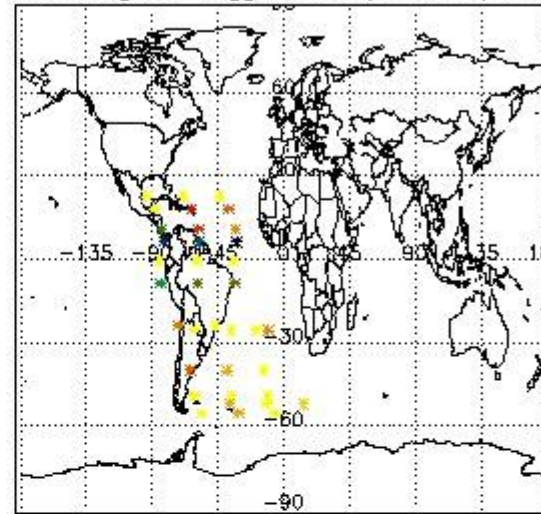


#### 3.2 Plot quality information per product (world map)

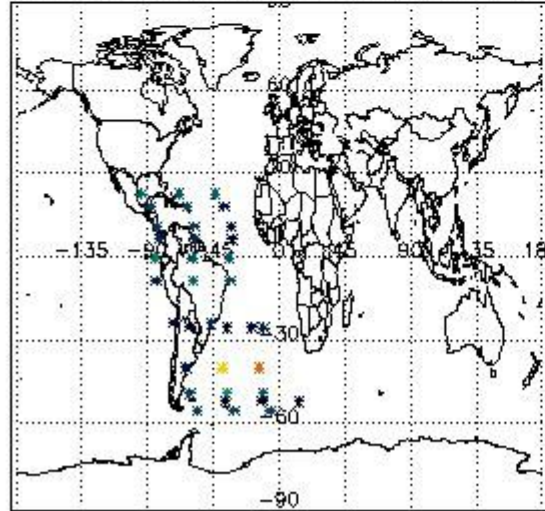
Percentage of flagged data per O3 profile



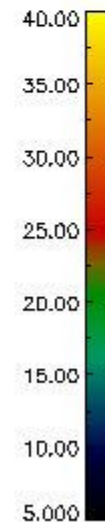
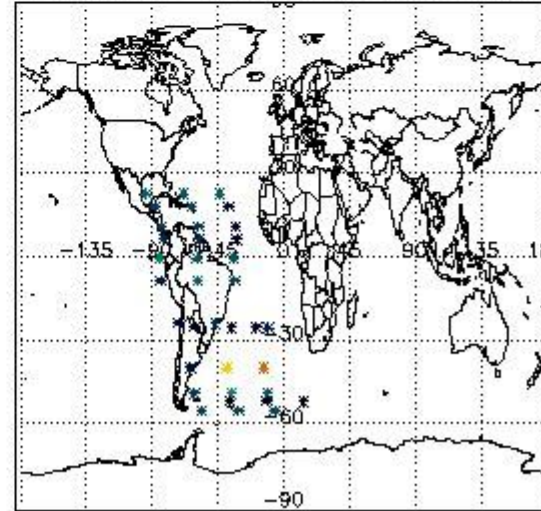
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

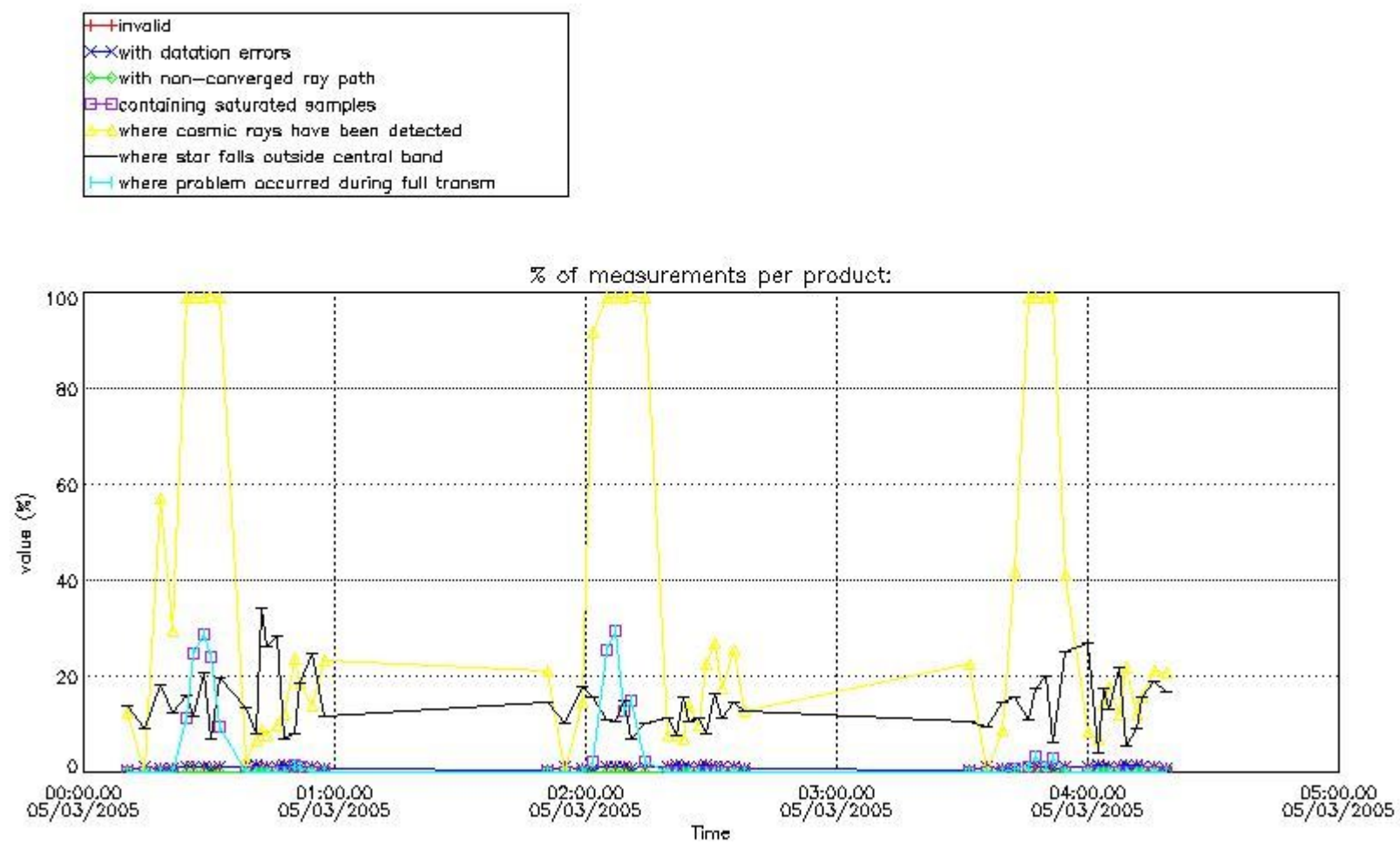


#### 4. Level 1 quality information per product

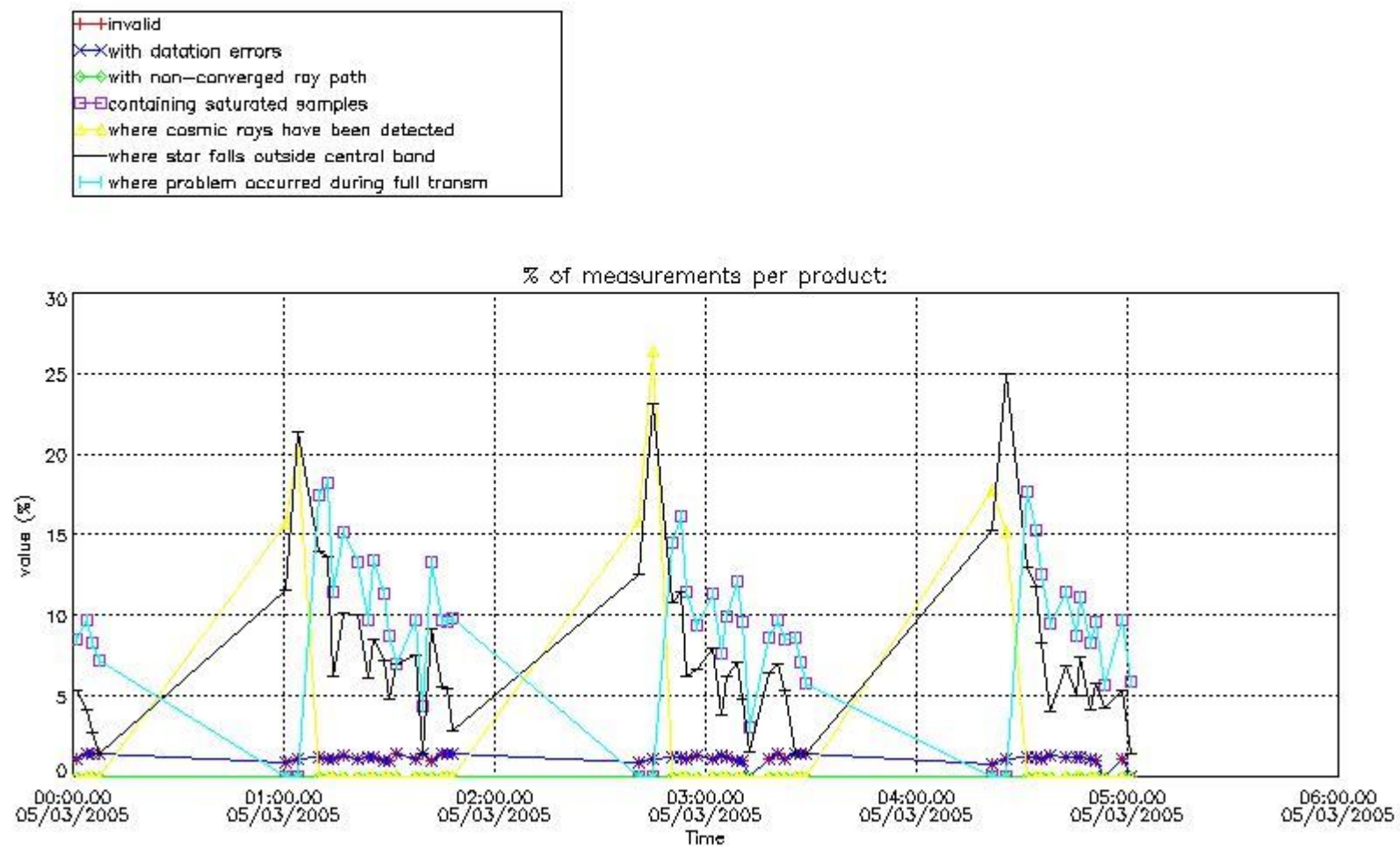
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



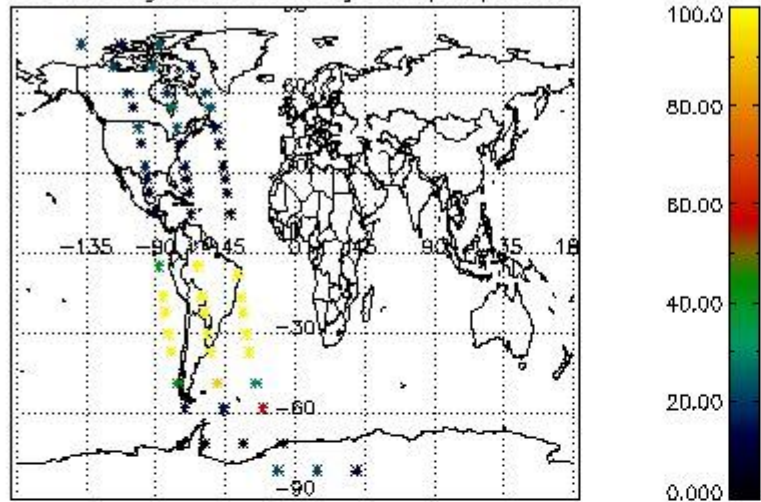
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



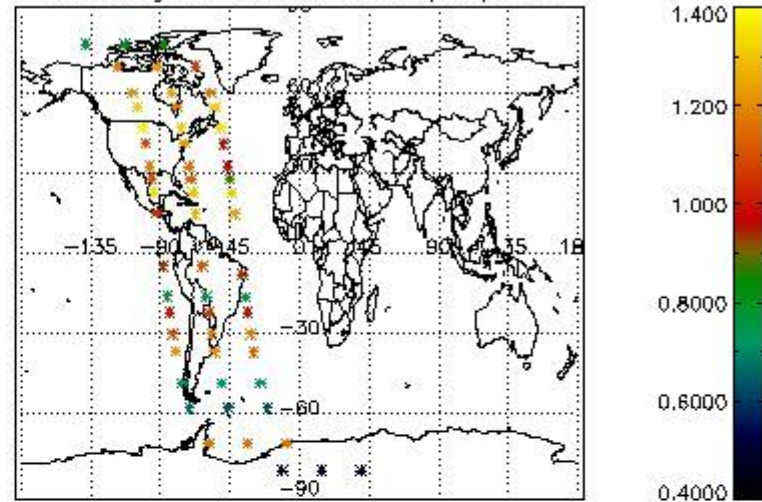
4.2 Plot quality information per product coming from level 1b processing (world map)

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

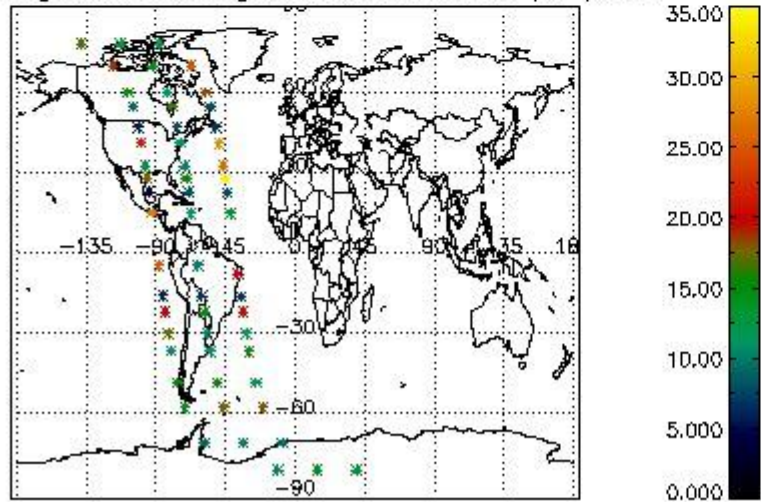
Percentage of cosmic ray hits per profile



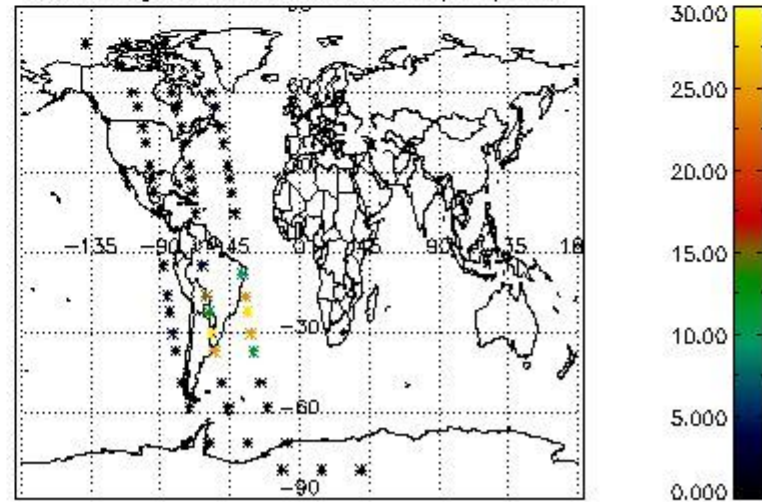
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

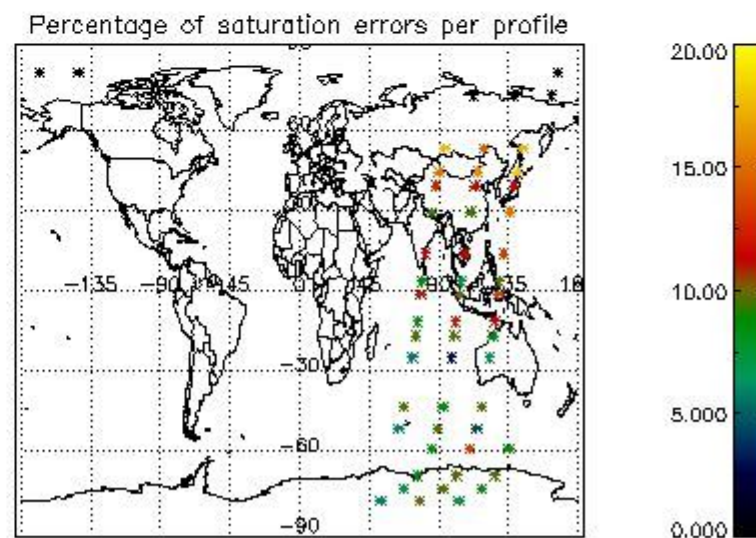
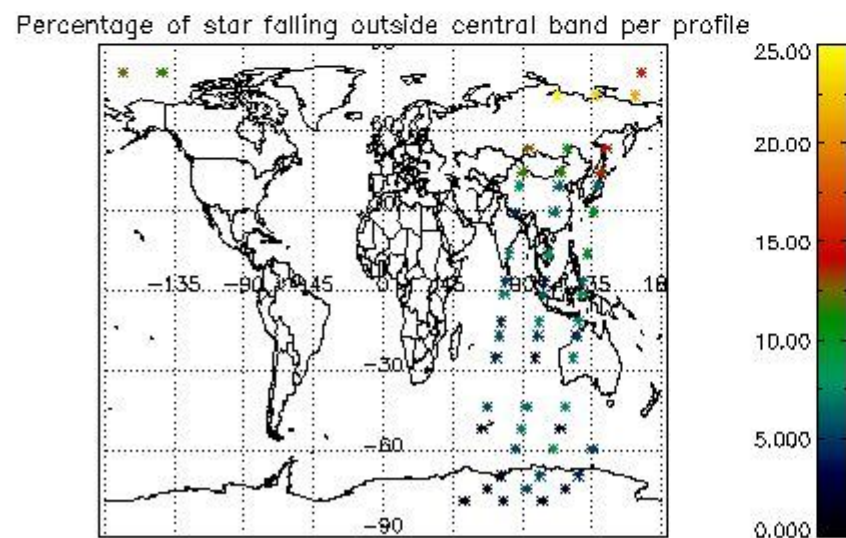
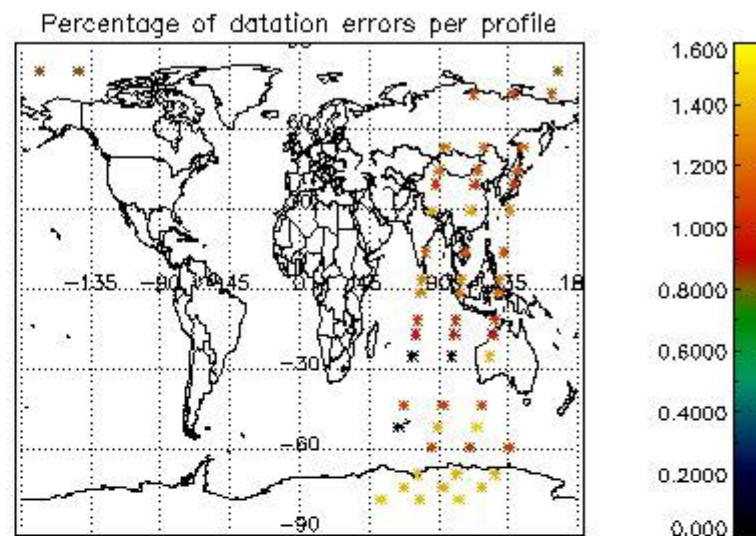
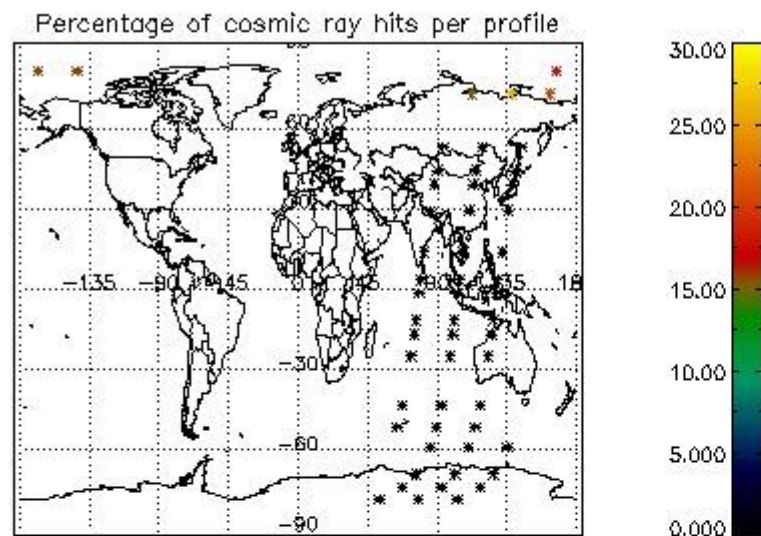


Percentage of saturation errors per profile



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

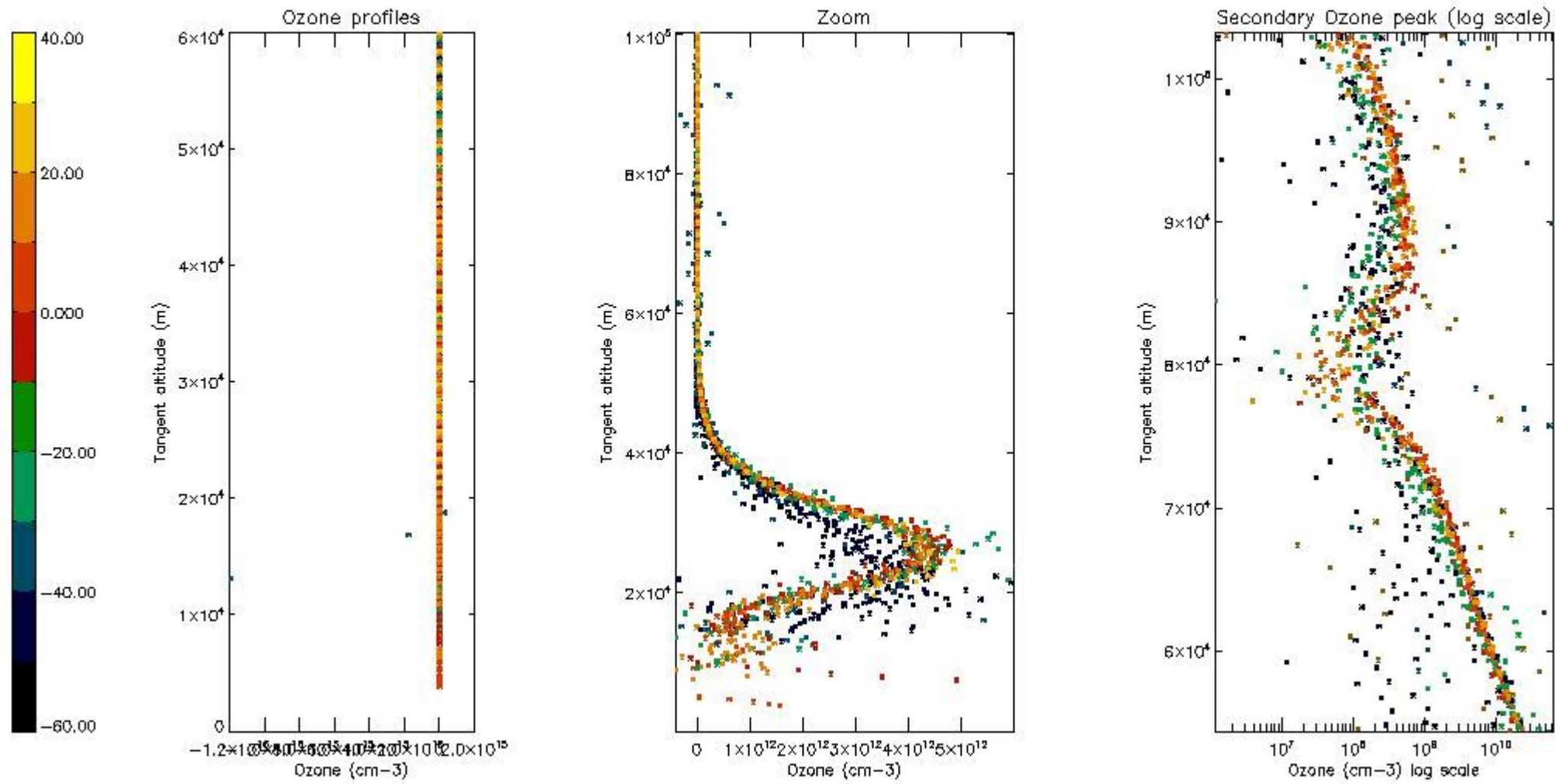
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	16

STD < 10	12
STD < 5	8

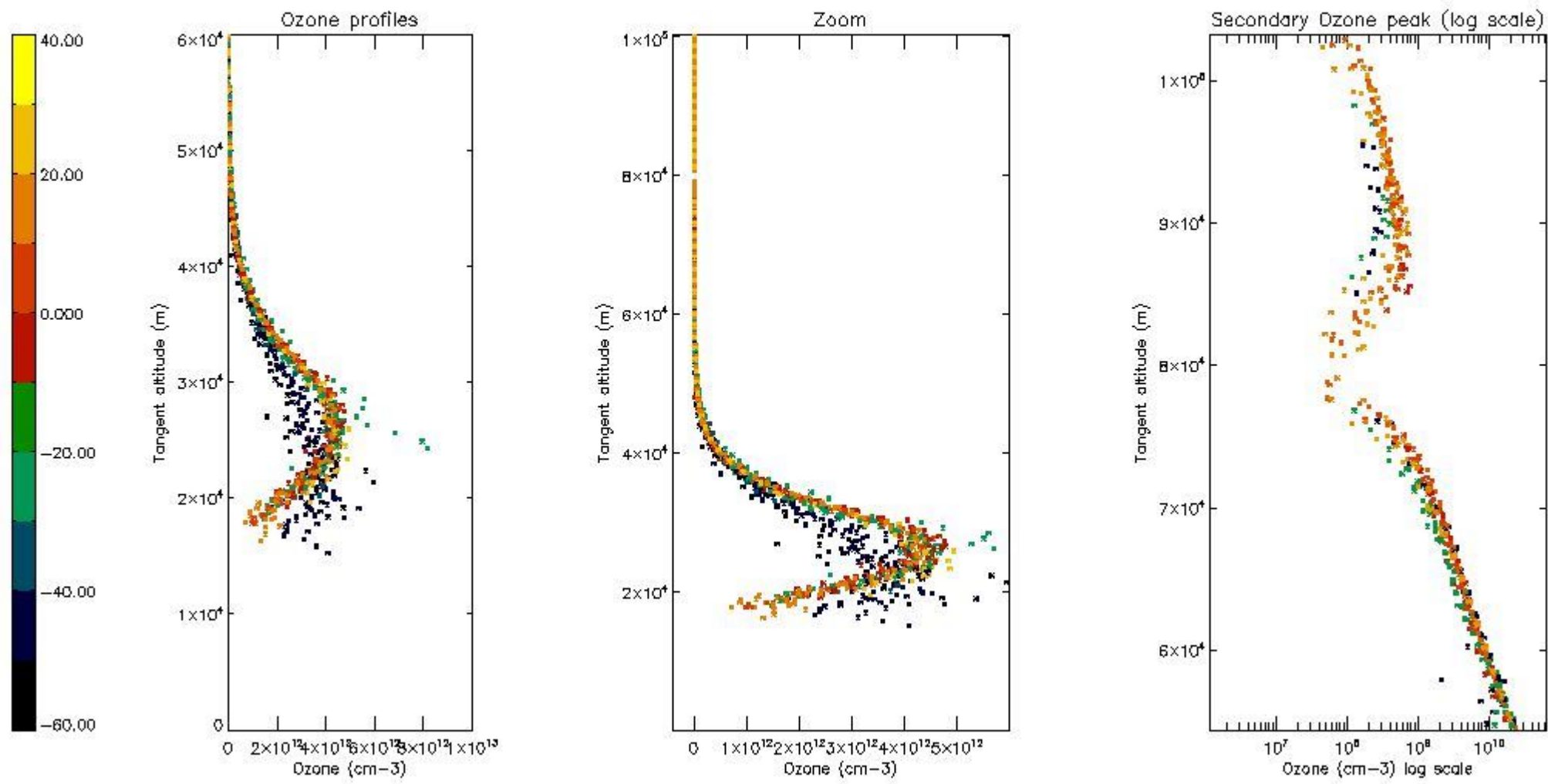
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



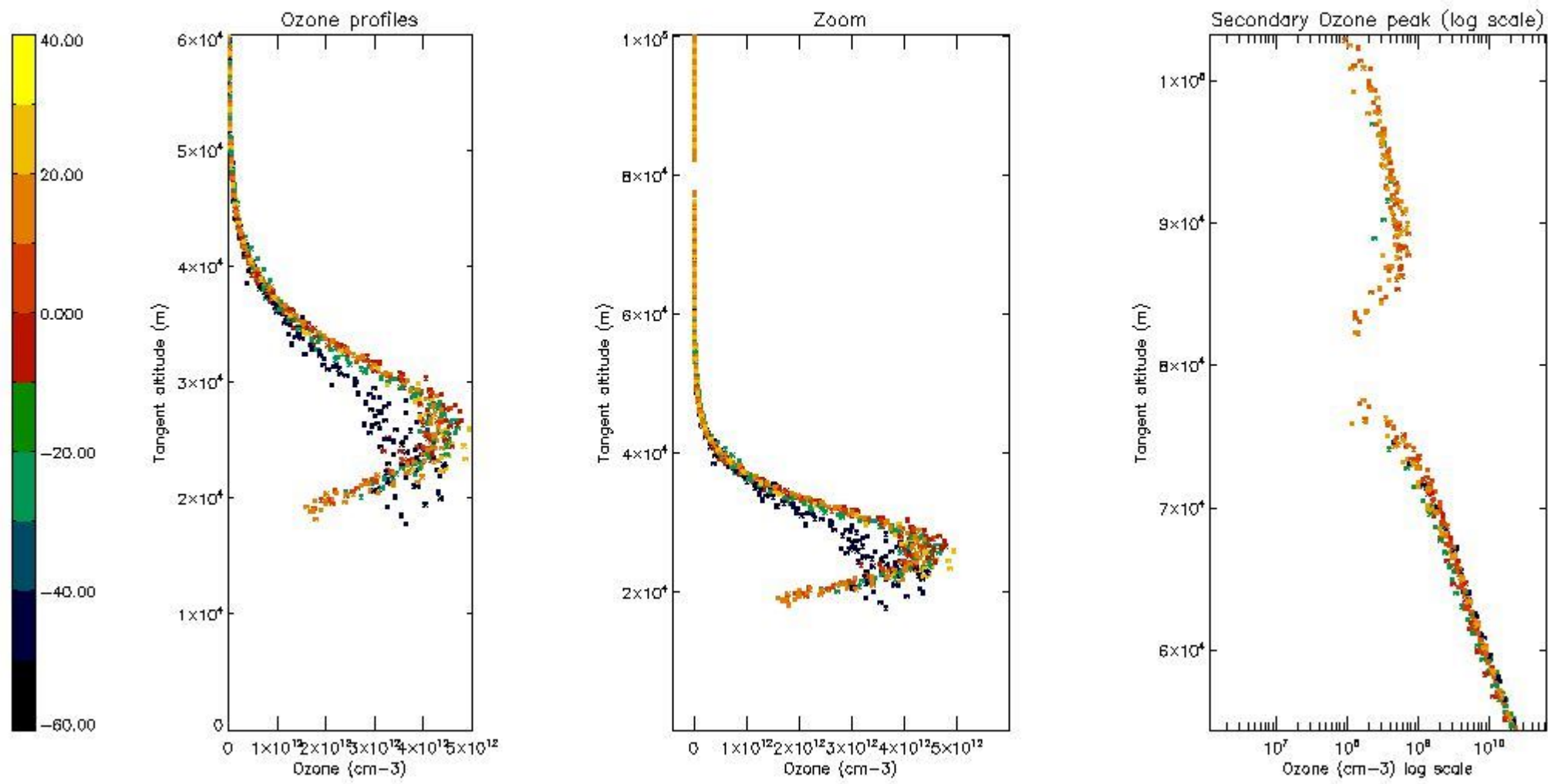
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



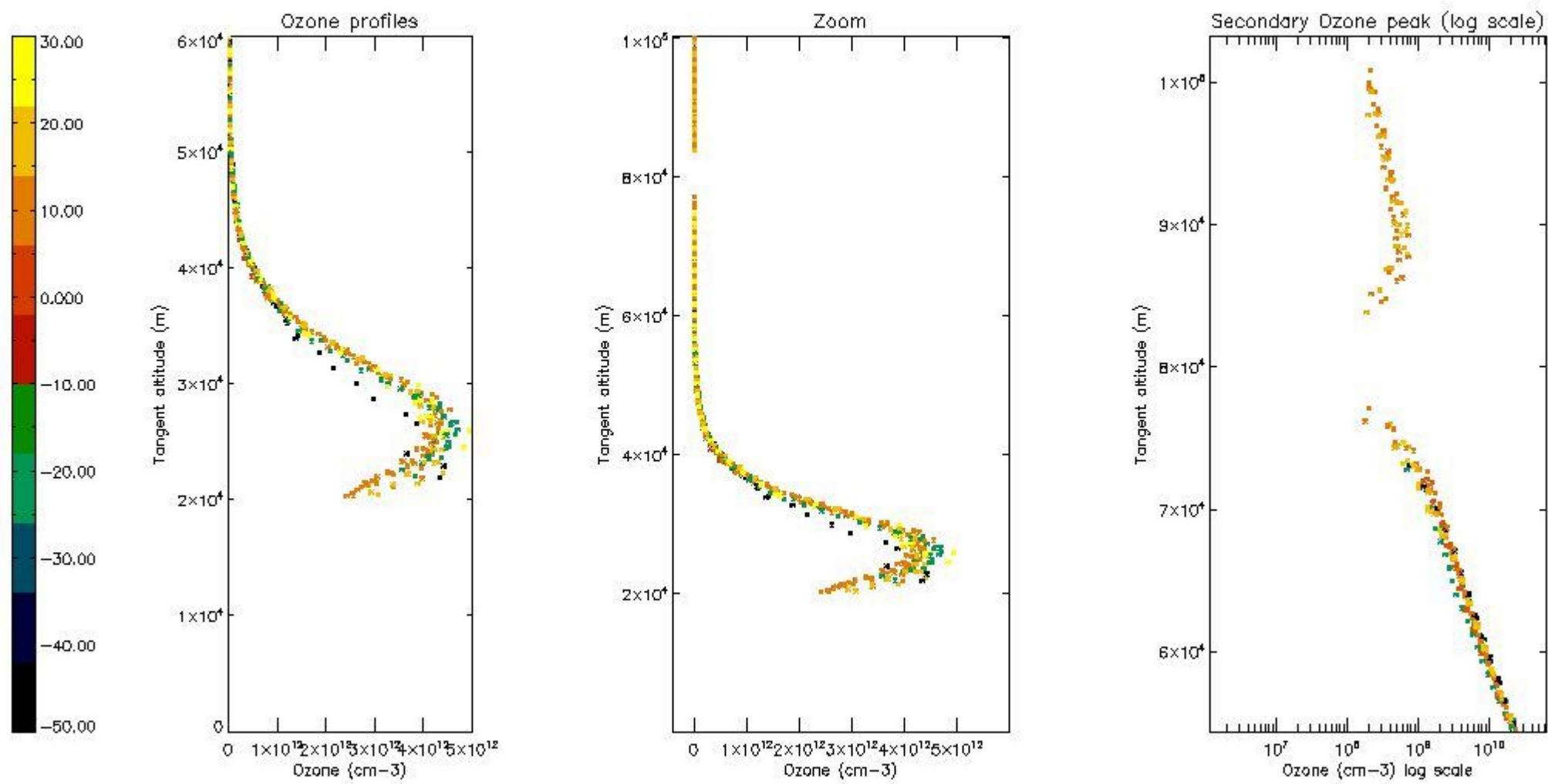
5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)

The colorbar represents the latitude.



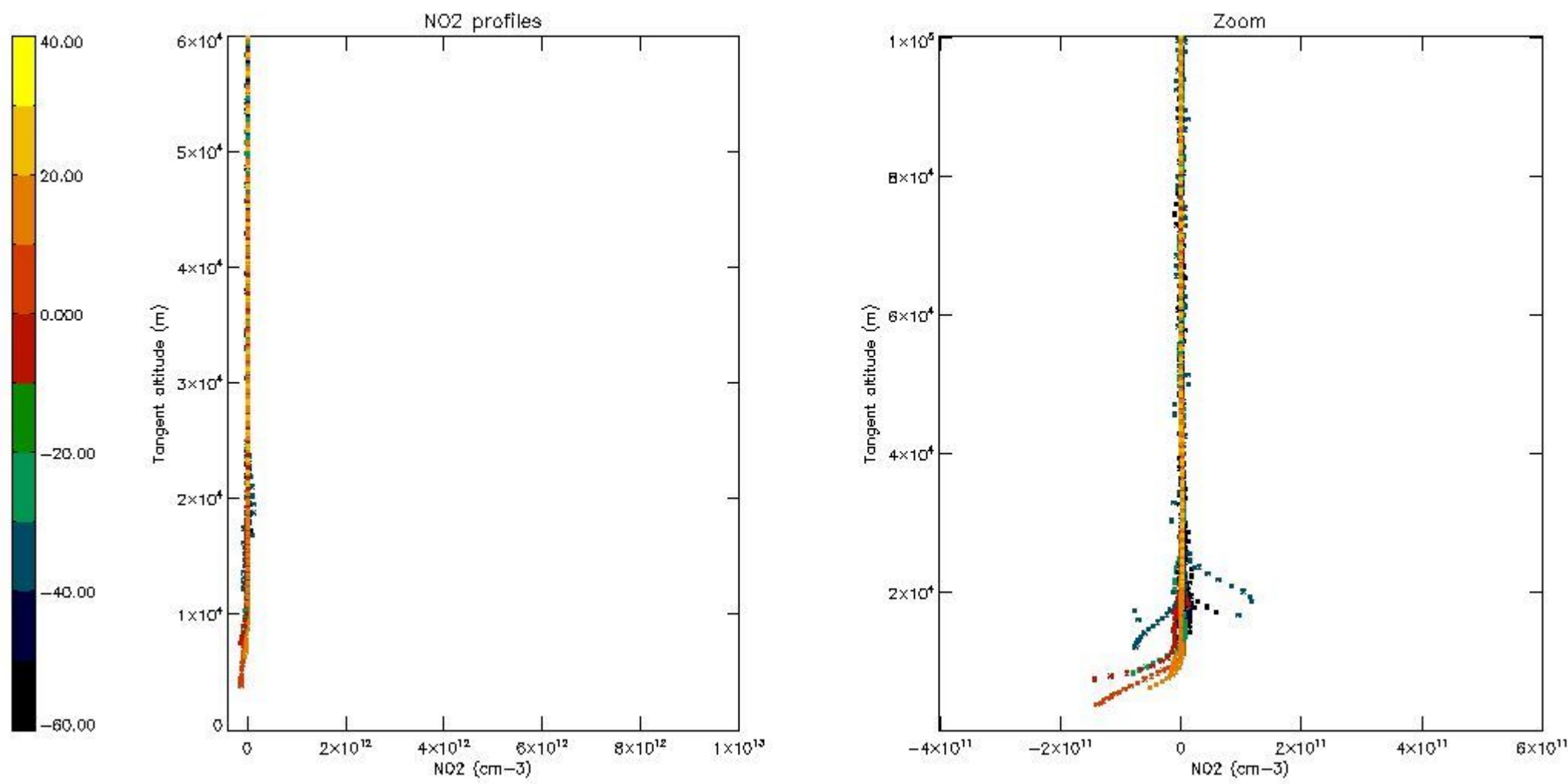
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



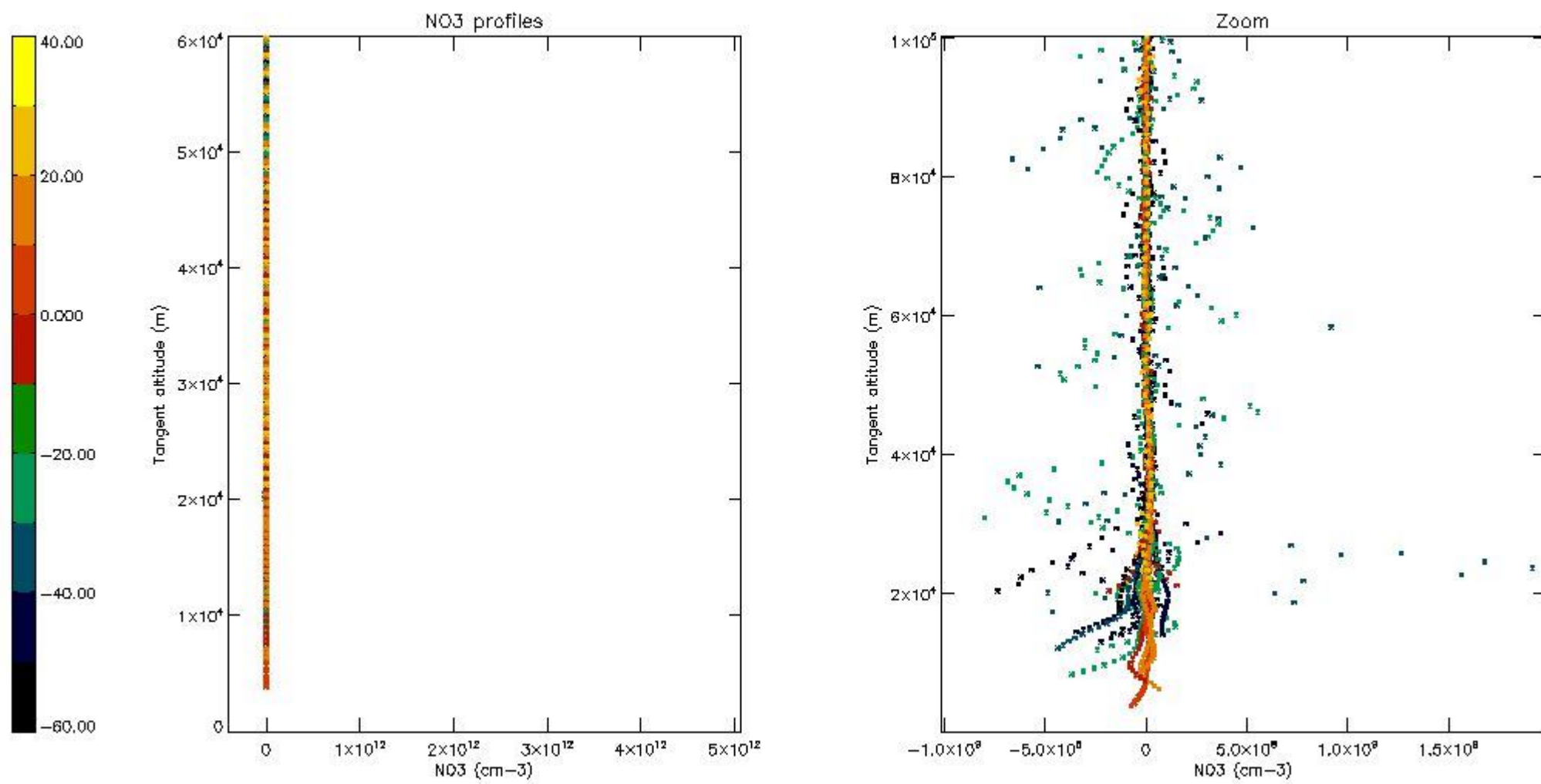
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



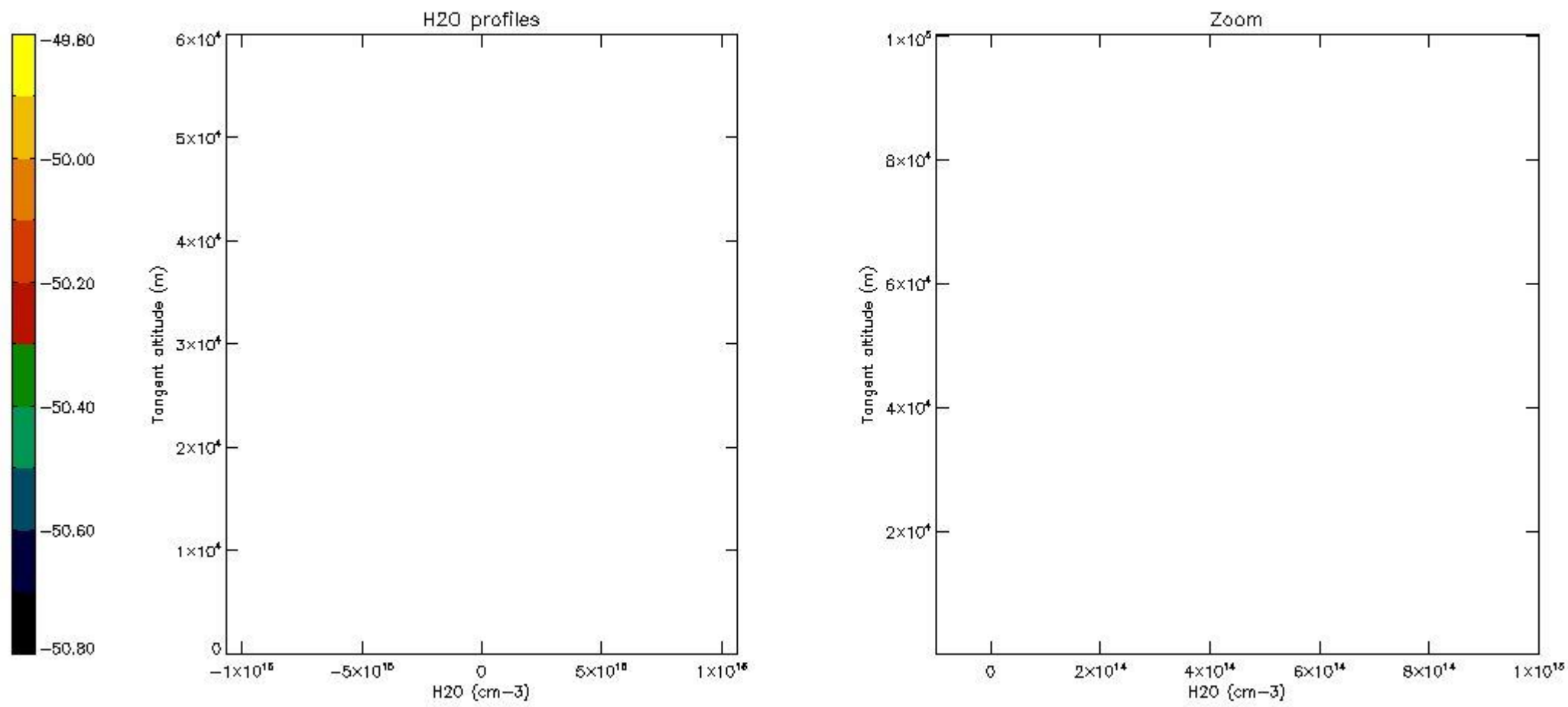
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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.

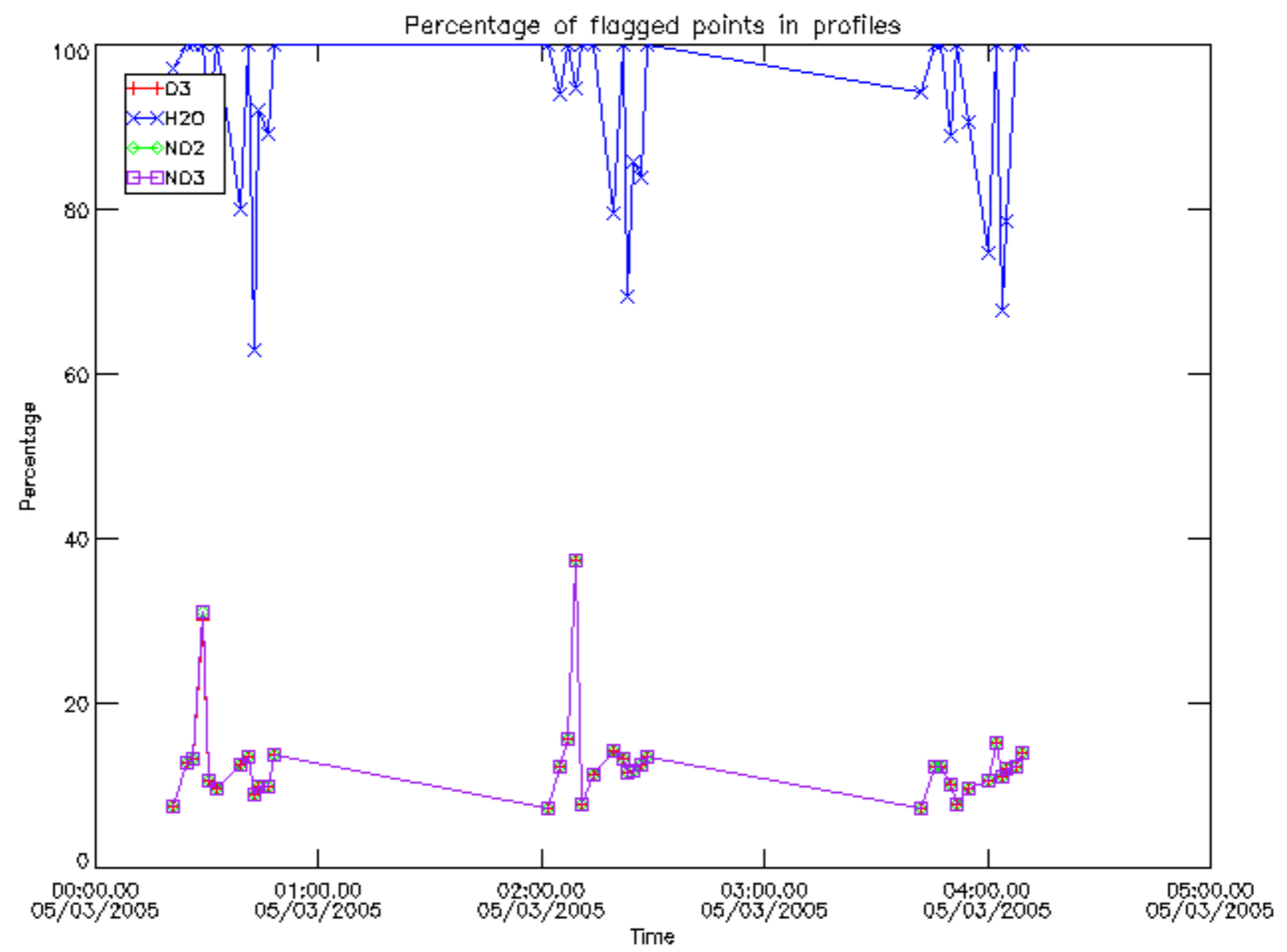


## 6. Auxiliary Data Files used for the production reported in section 2

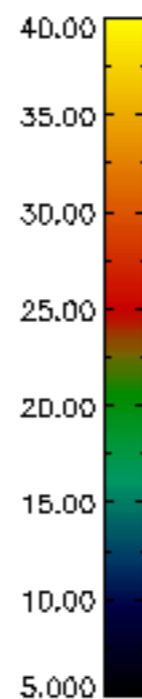
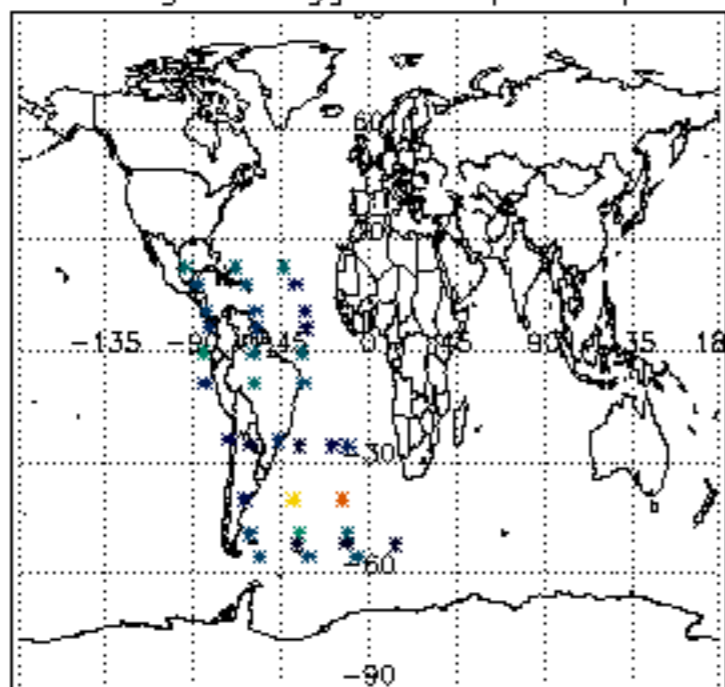
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	05-MAR-2005 00:01:14
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	05-MAR-2005 00:01:14
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	05-MAR-2005 00:01:14

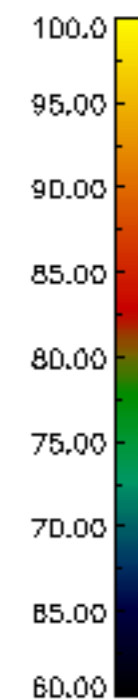
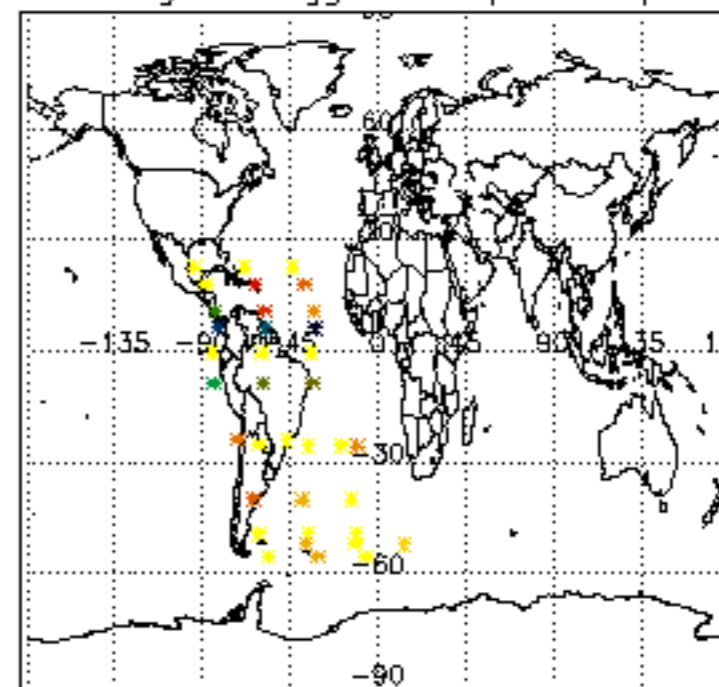




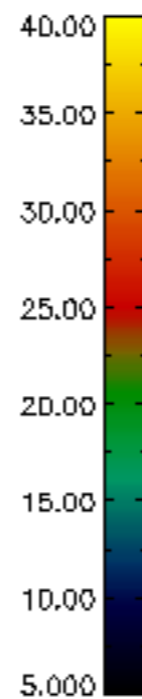
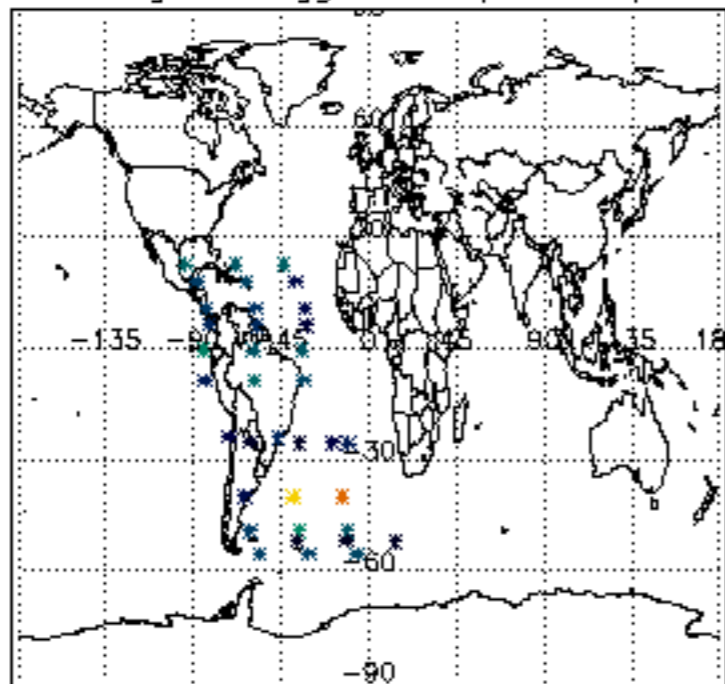
Percentage of flagged data per D3 profile



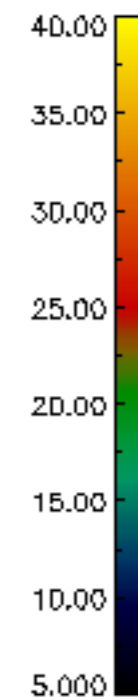
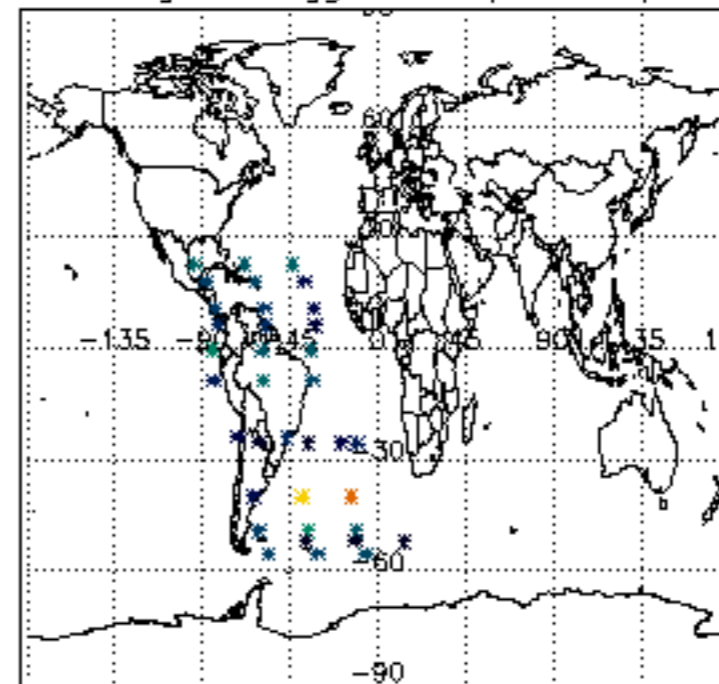
Percentage of flagged data per H2O profile

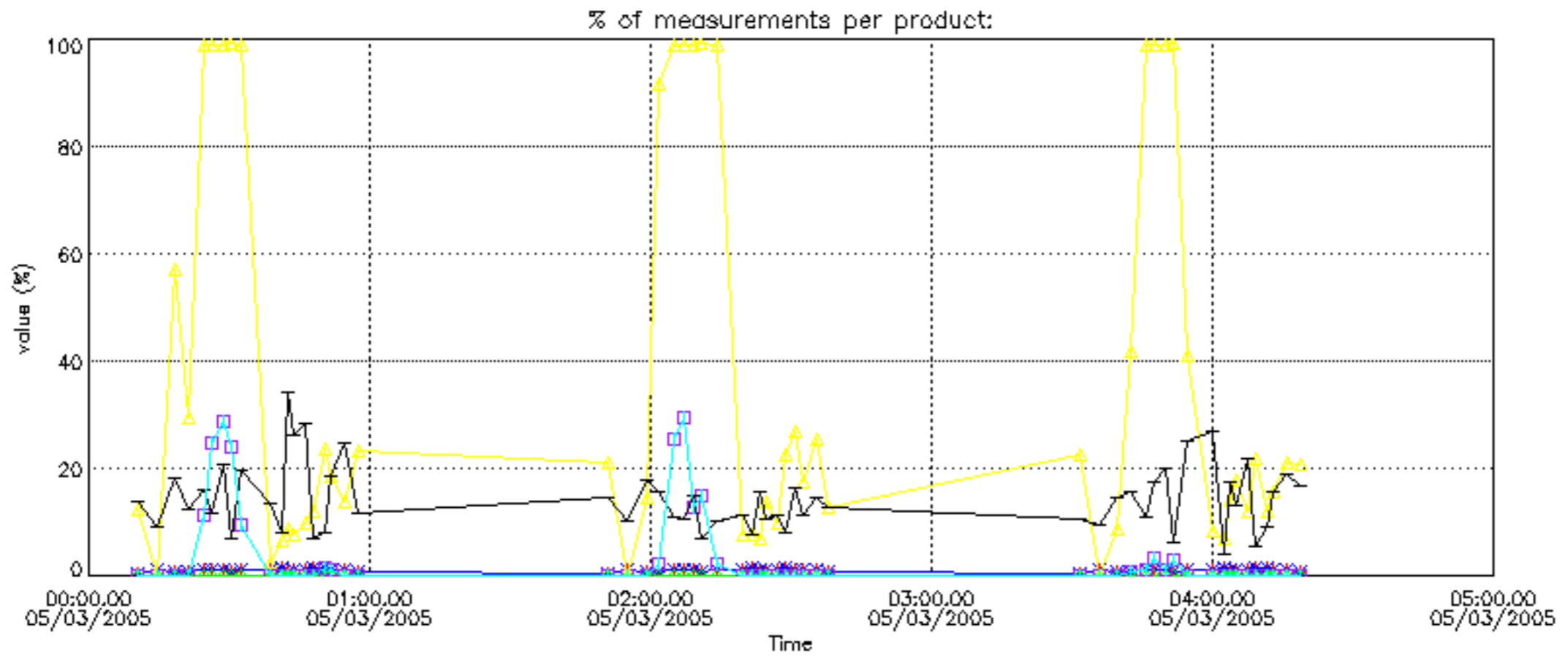


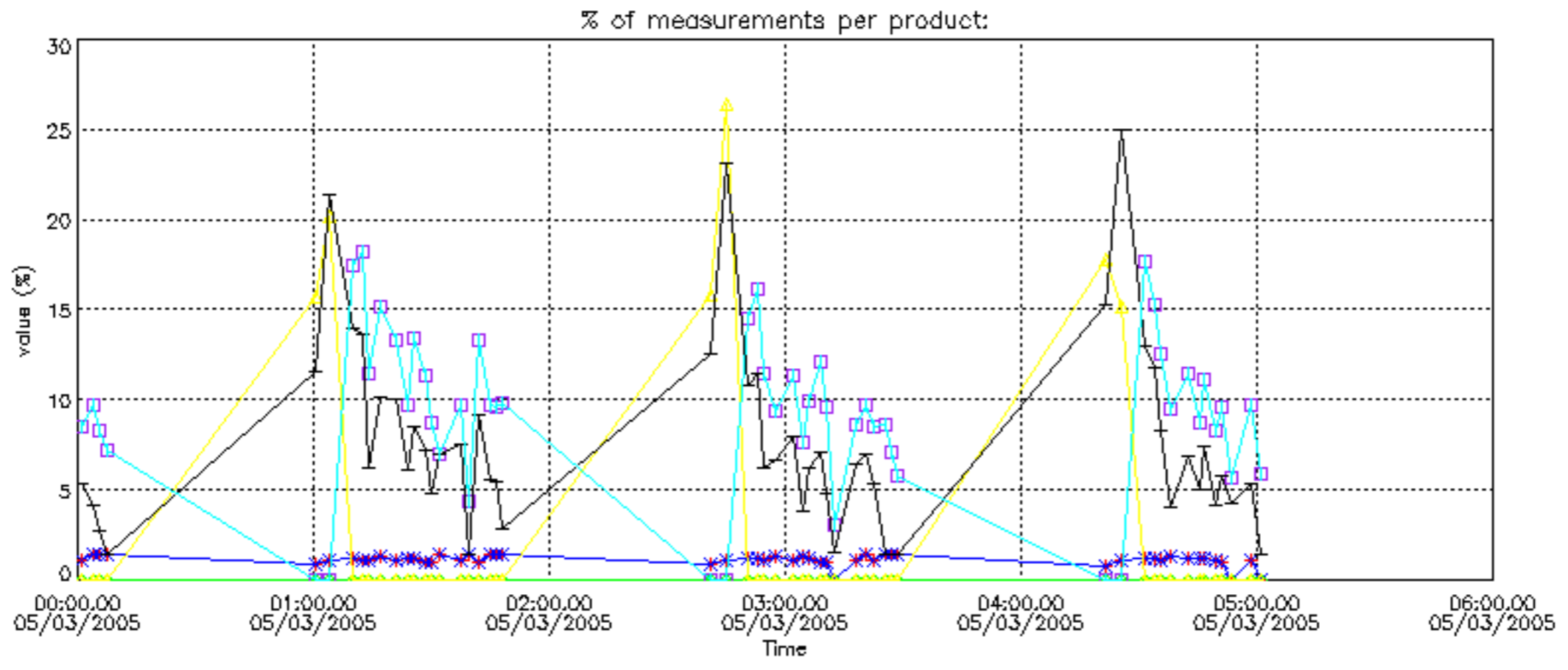
Percentage of flagged data per NO2 profile



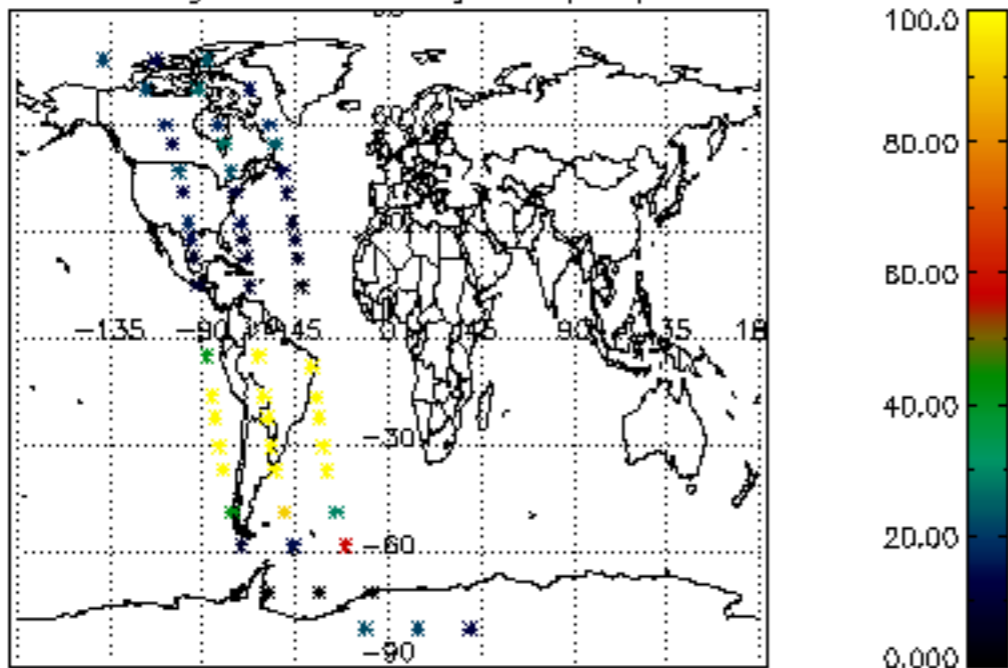
Percentage of flagged data per NO3 profile



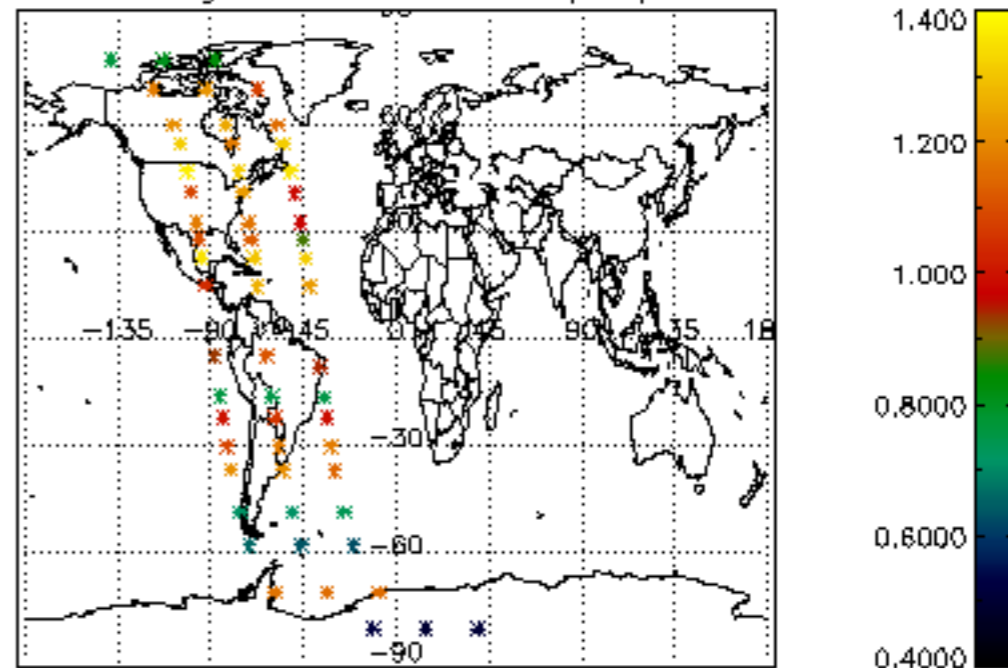




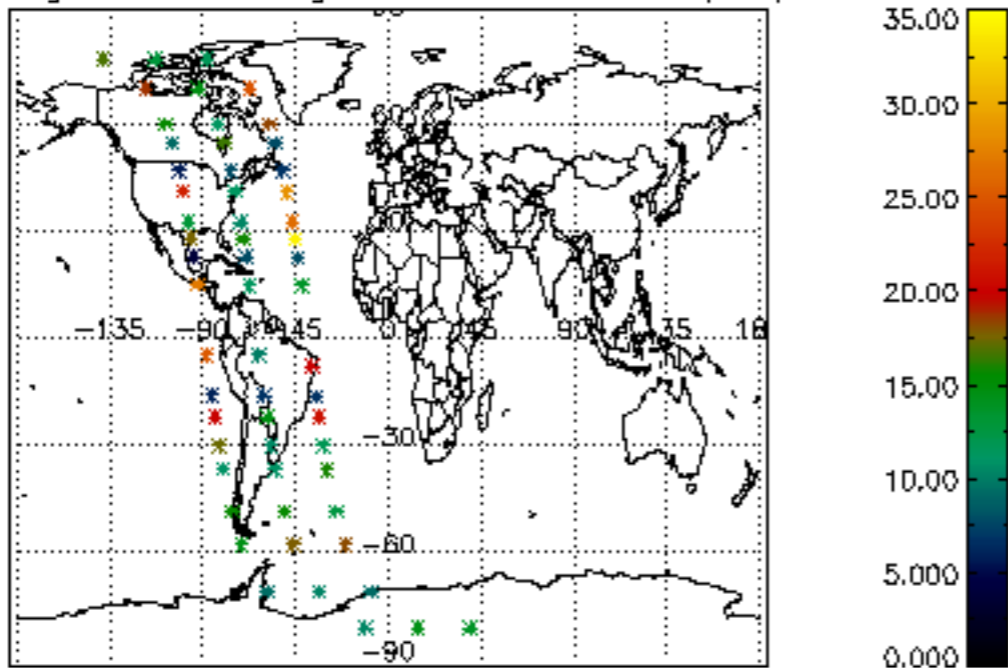
Percentage of cosmic ray hits per profile



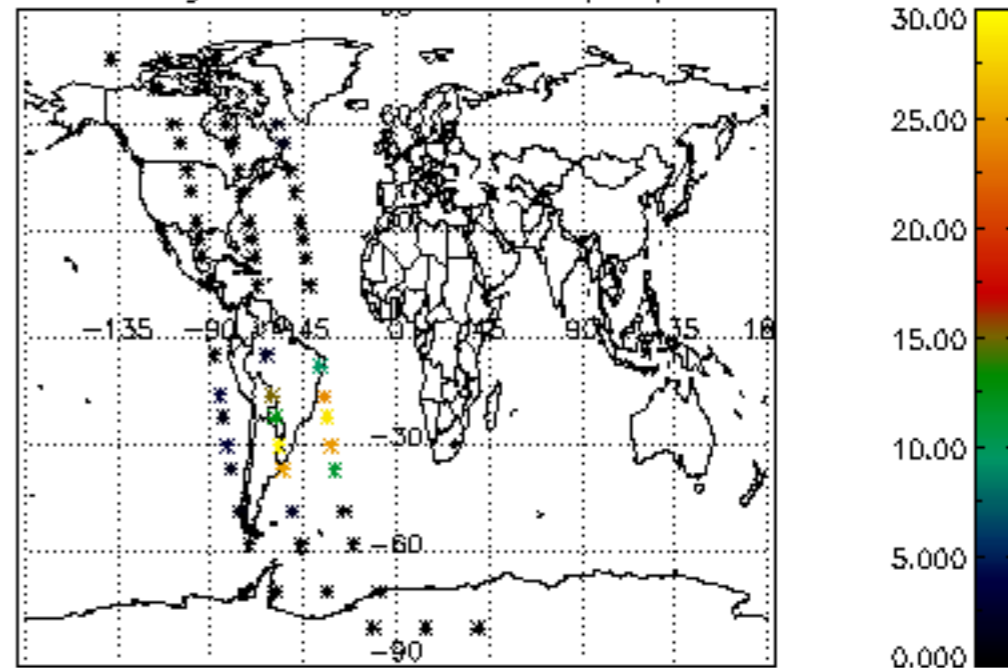
Percentage of datation errors per profile



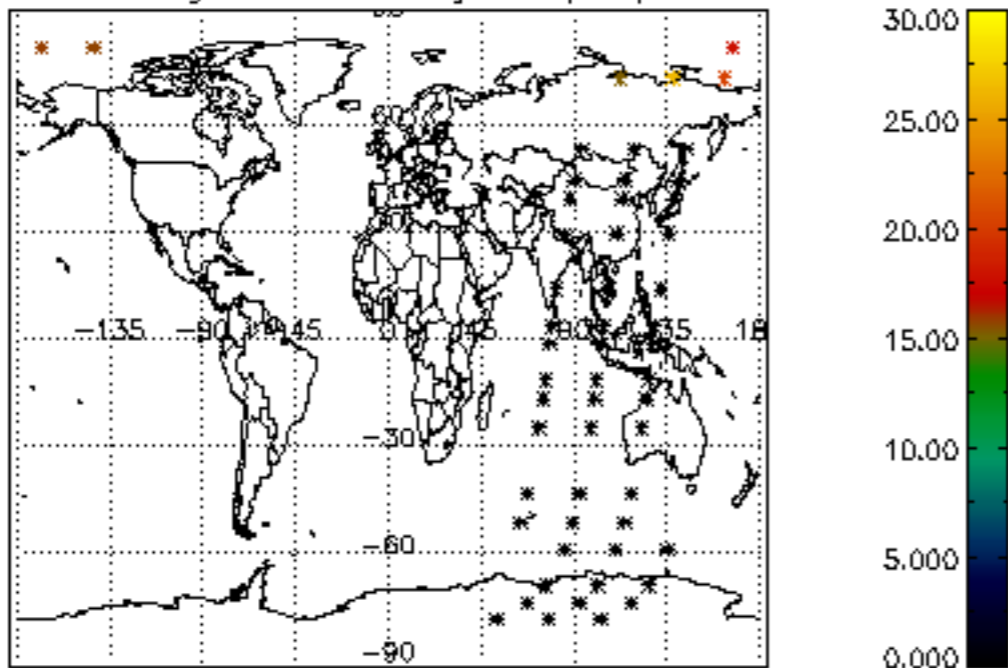
Percentage of star falling outside central band per profile



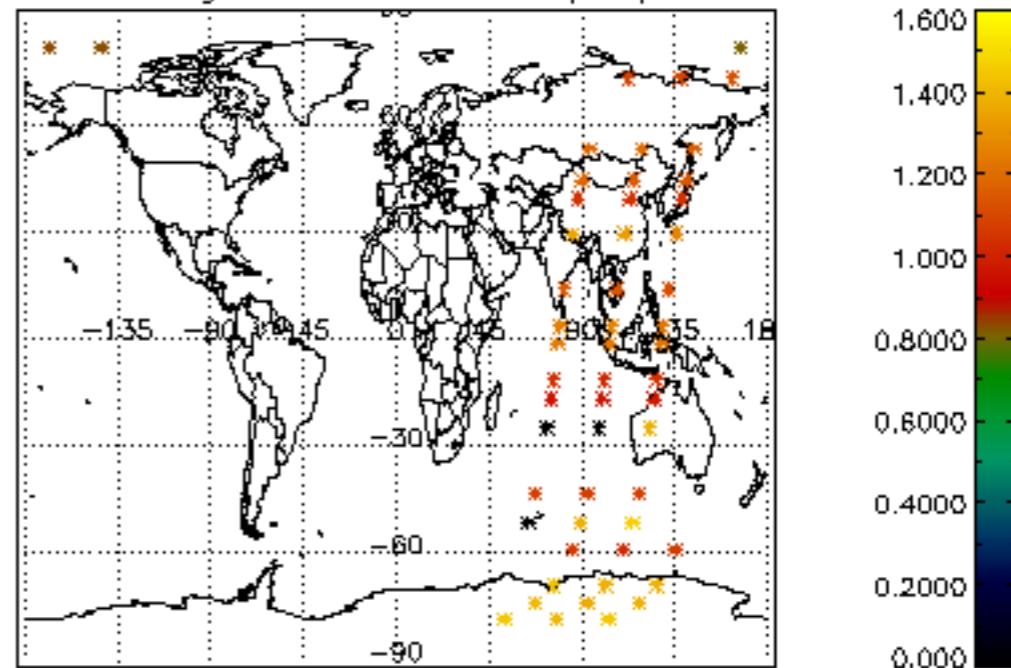
Percentage of saturation errors per profile



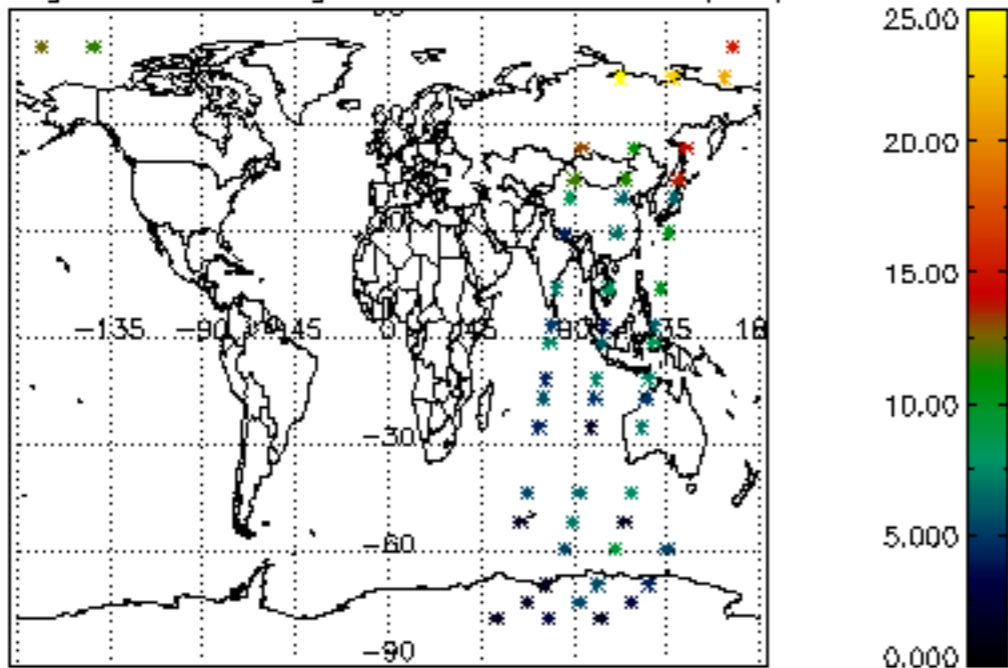
Percentage of cosmic ray hits per profile



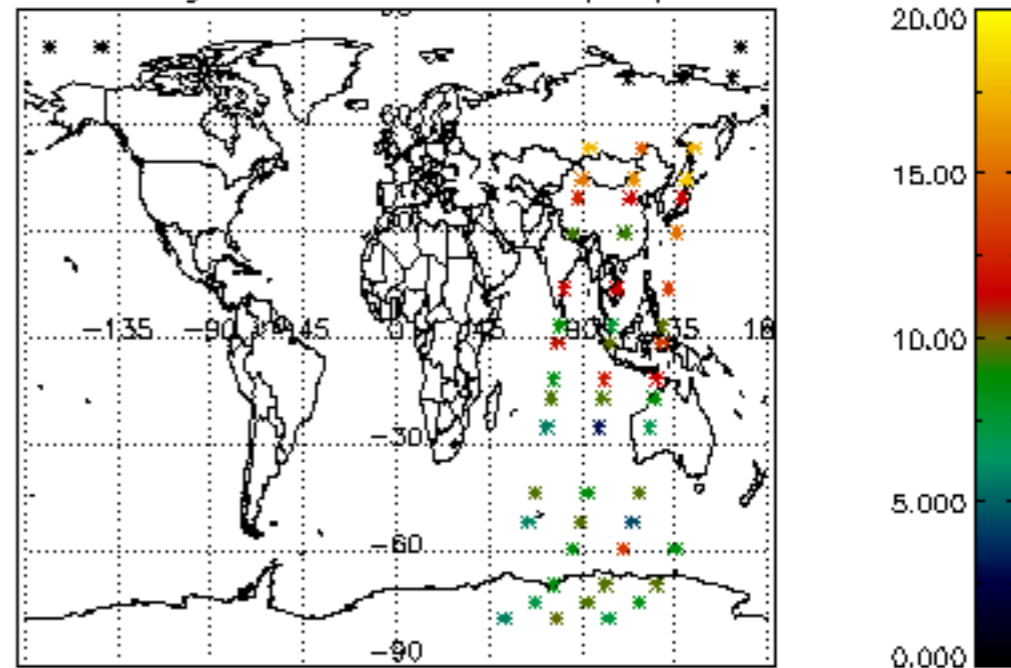
Percentage of datation errors per profile

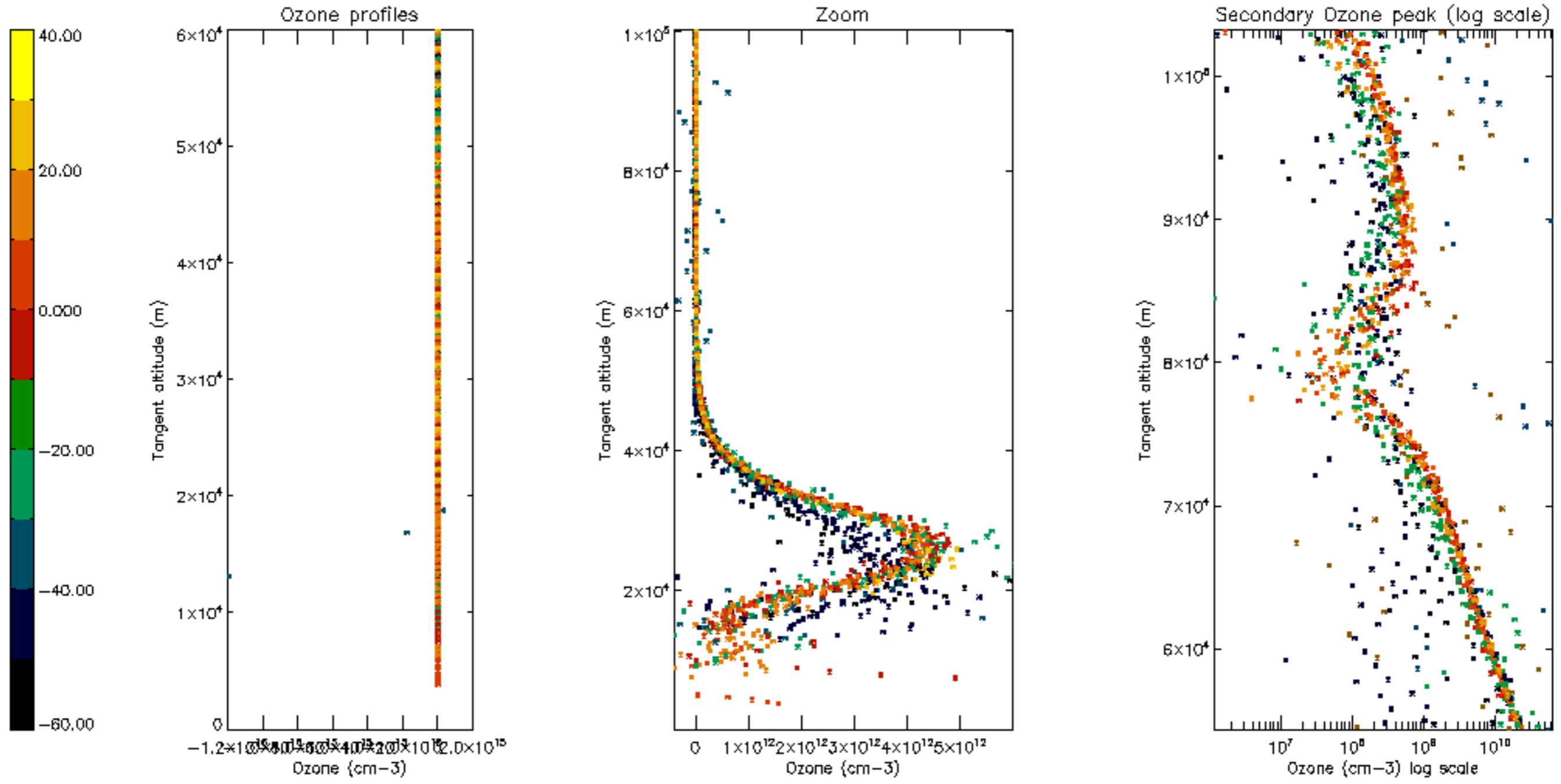


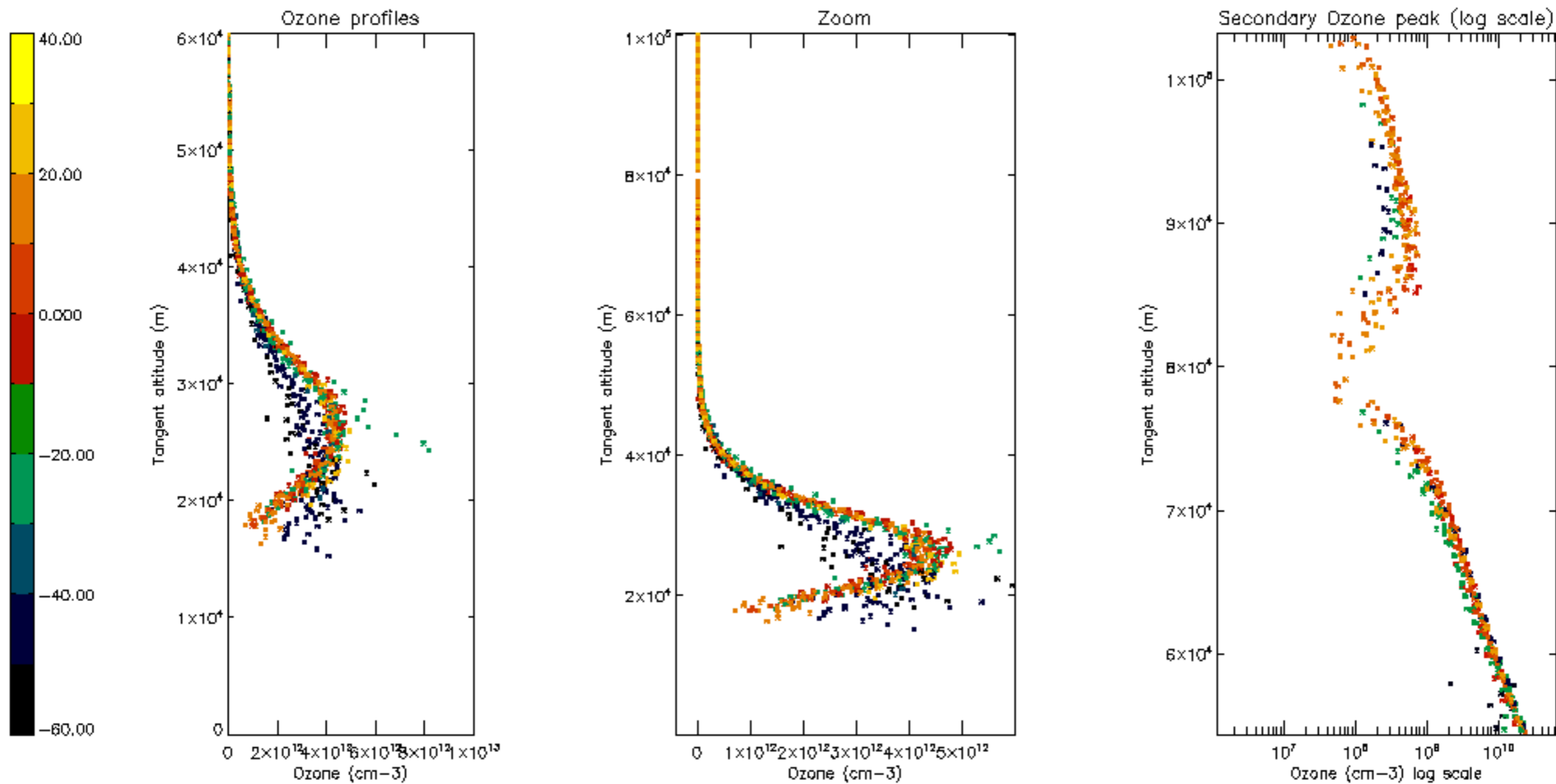
Percentage of star falling outside central band per profile



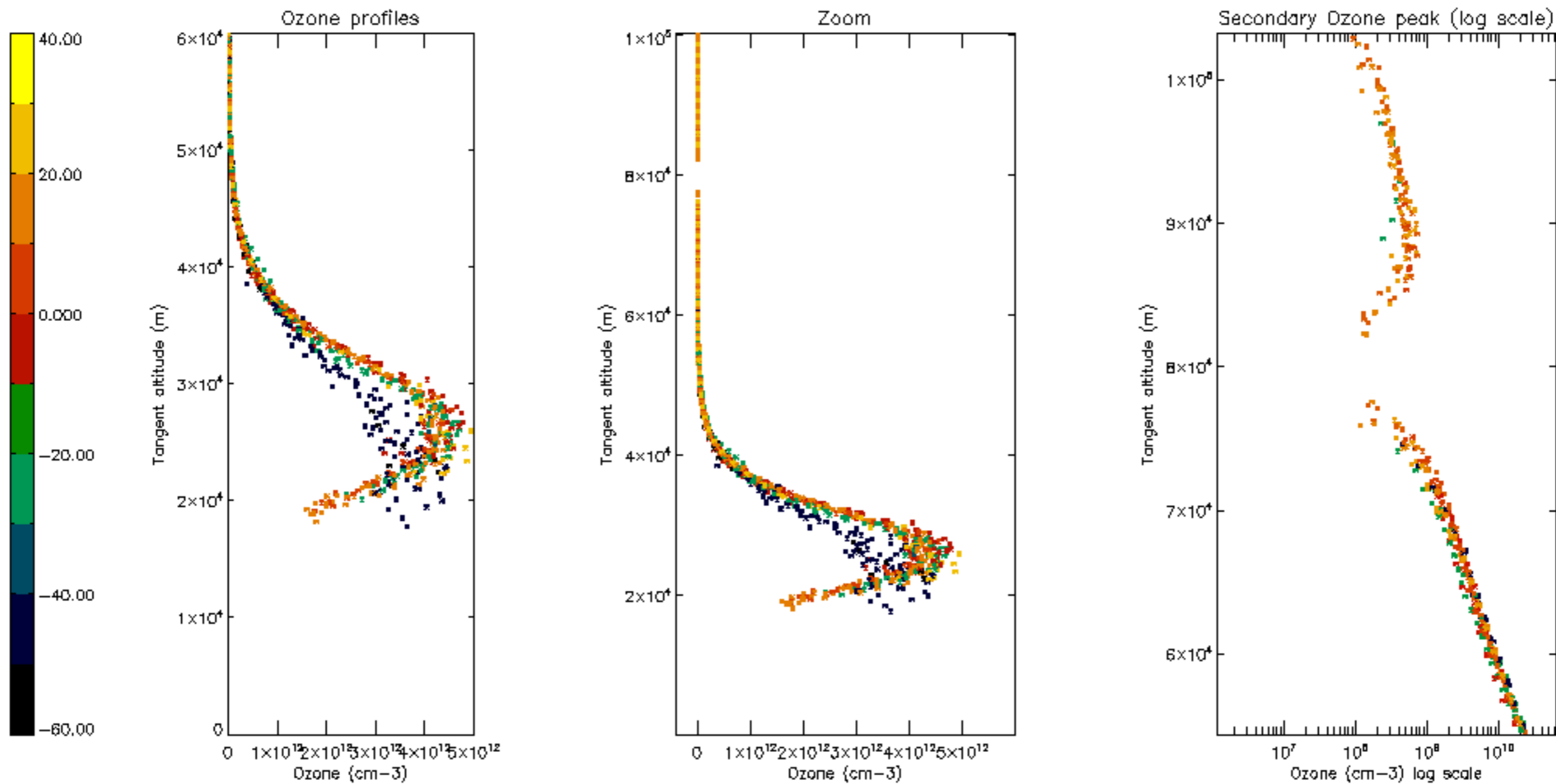
Percentage of saturation errors per profile

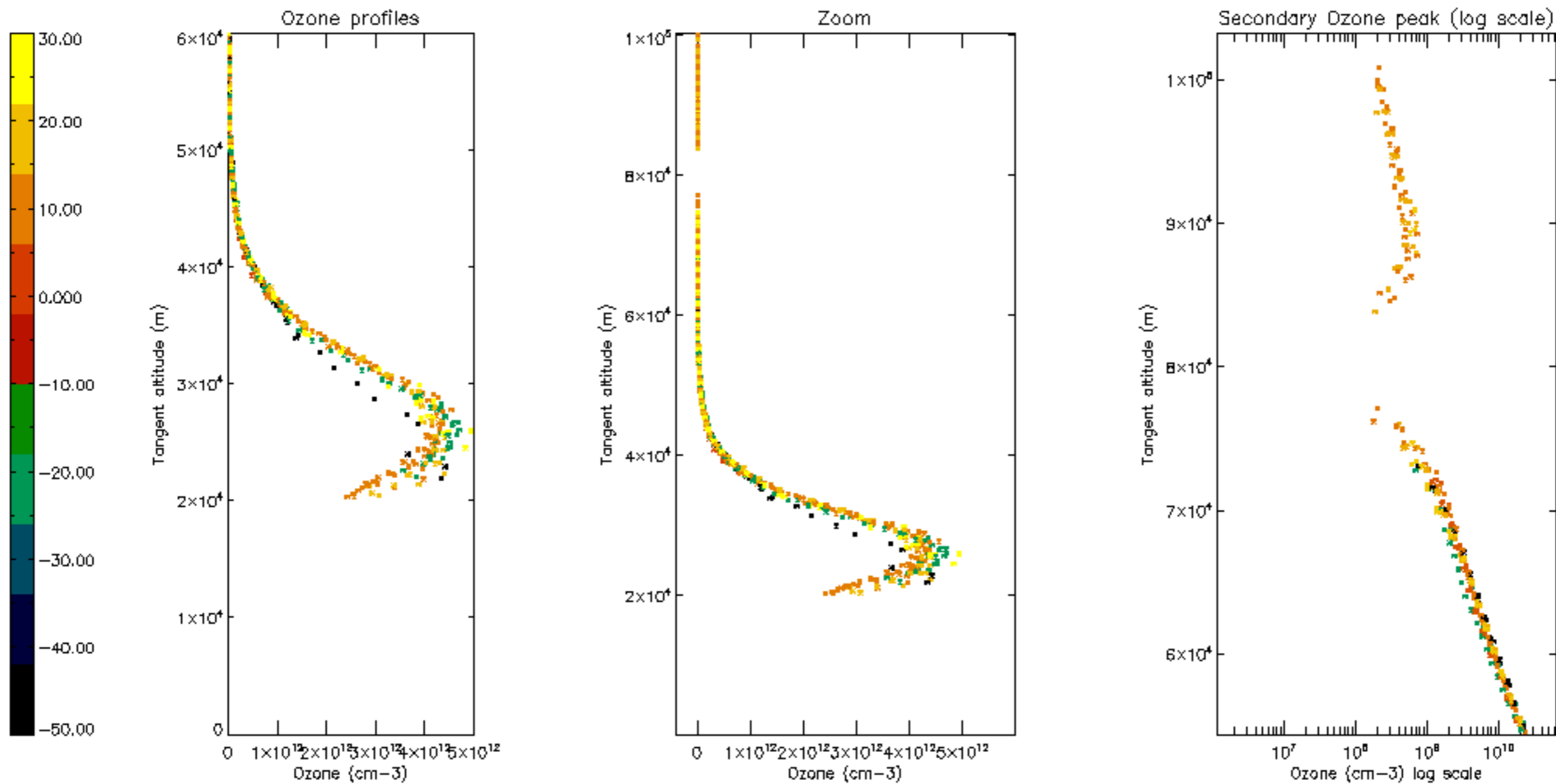


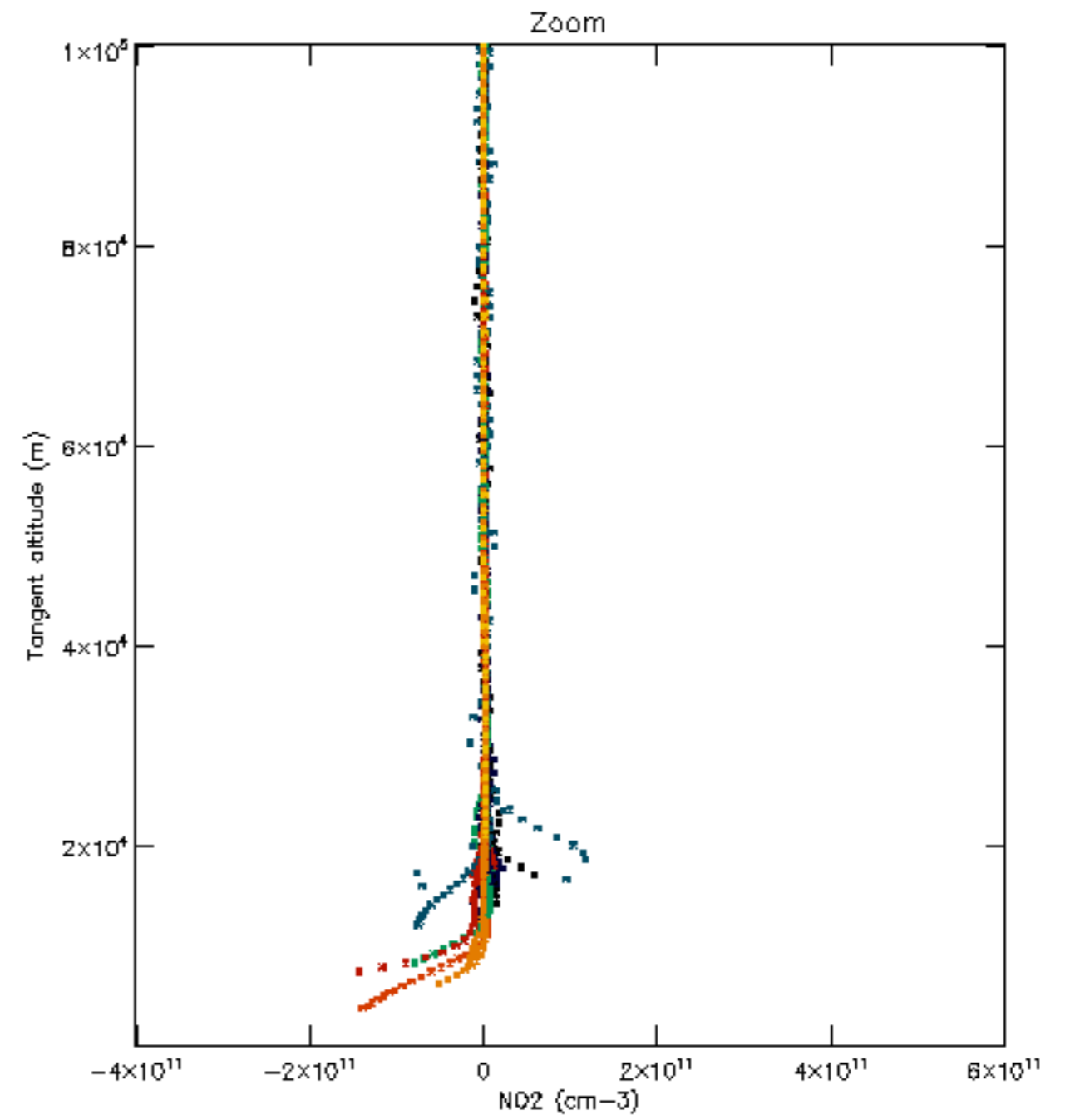
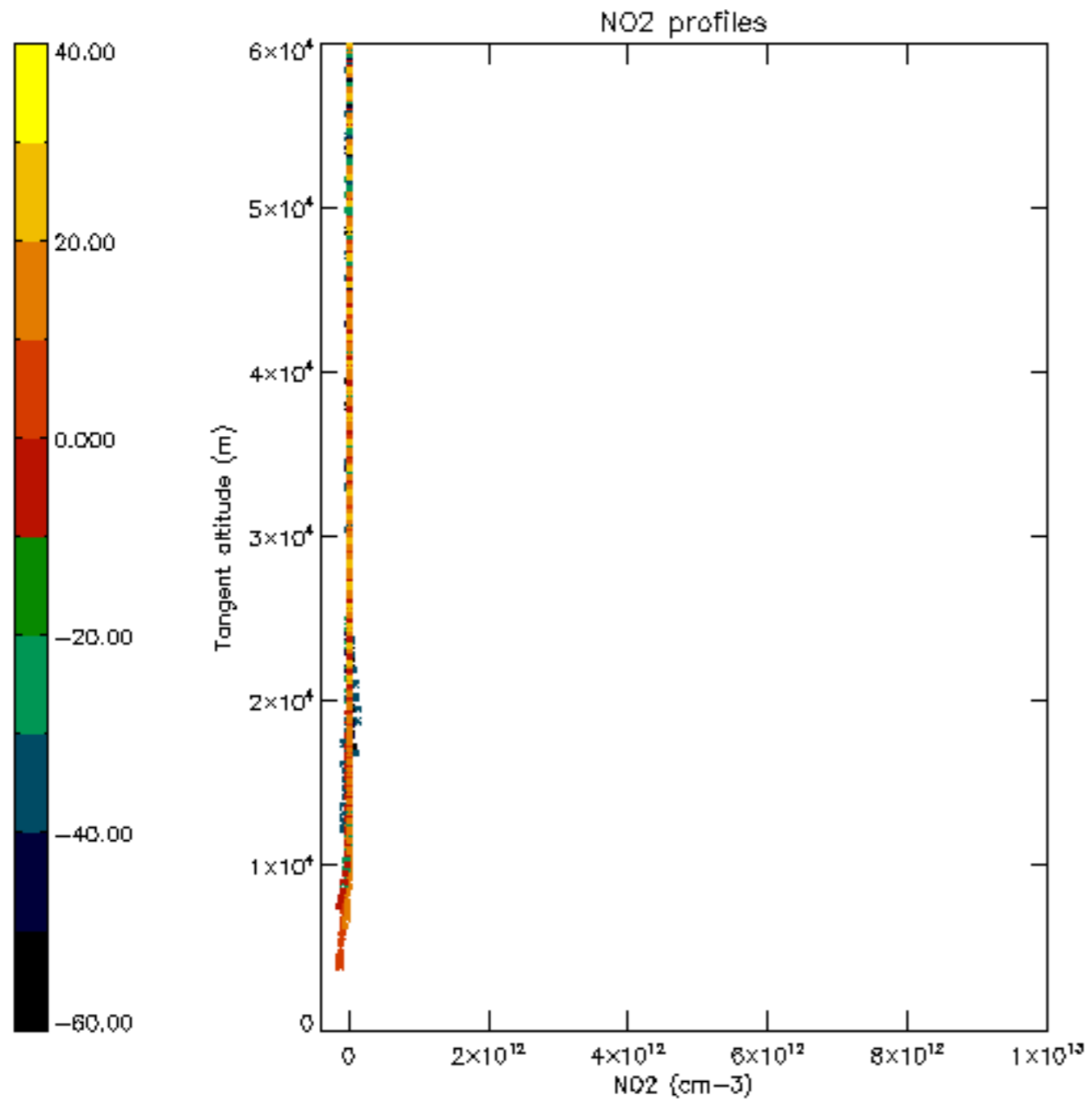


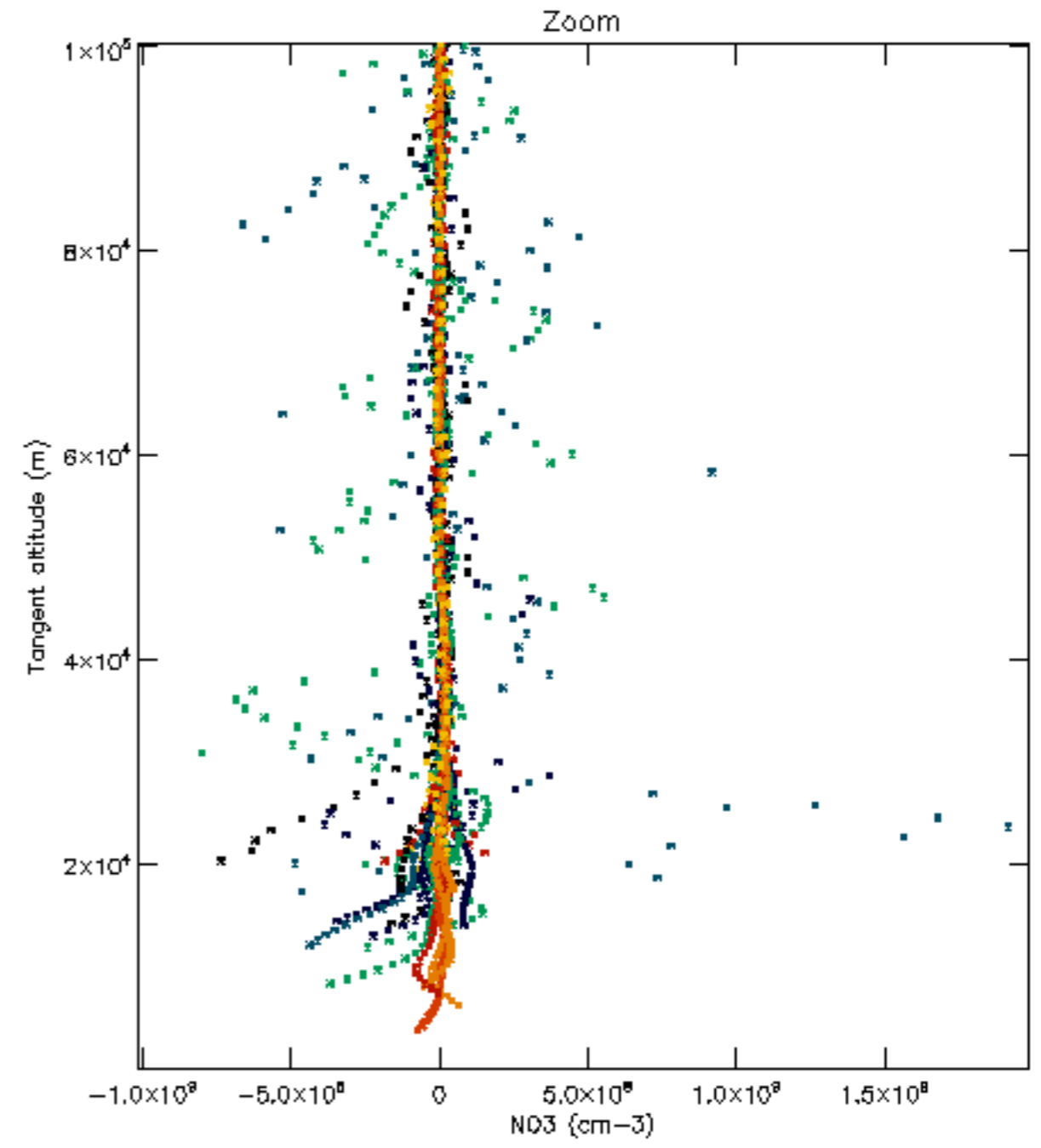
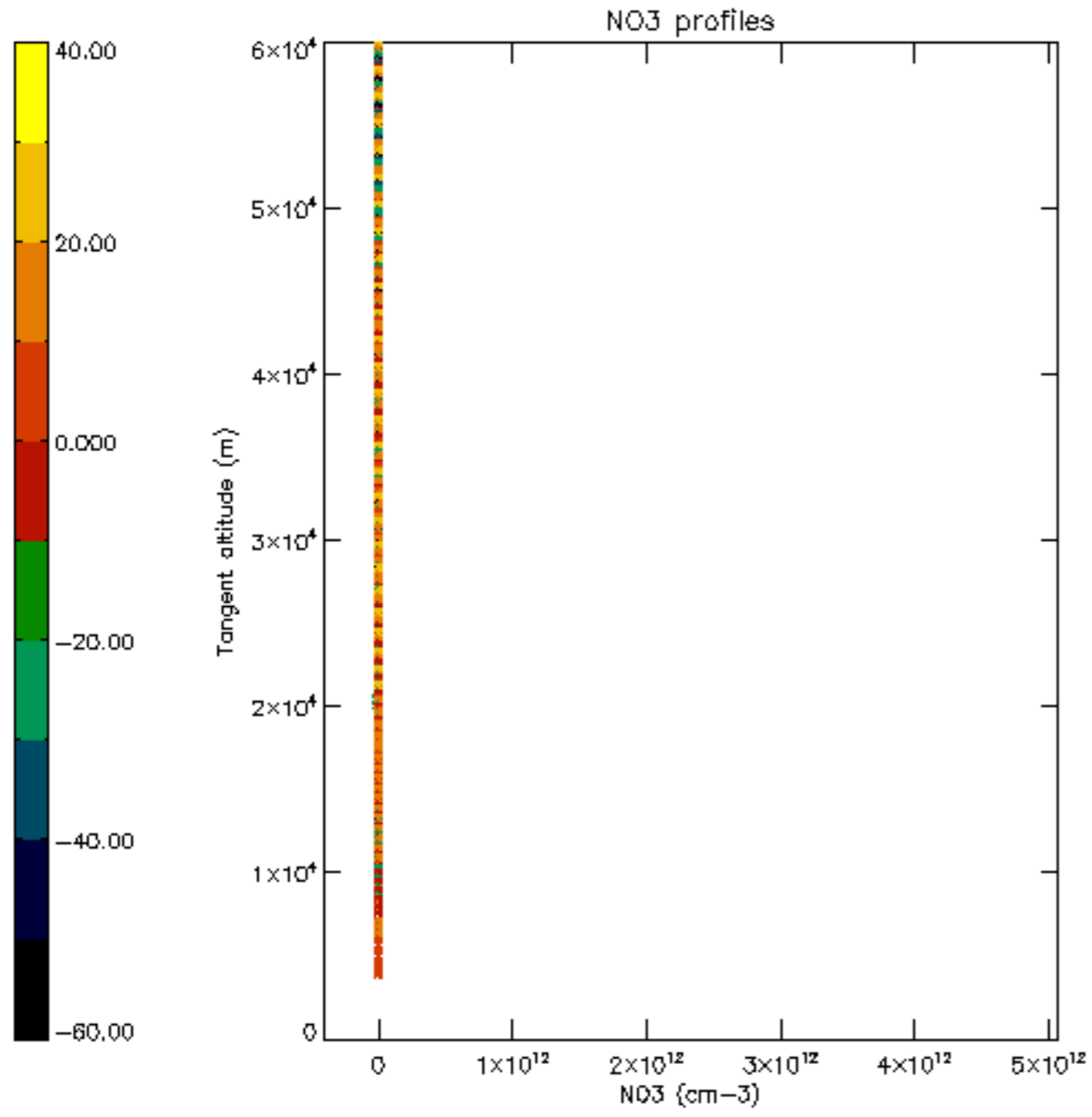


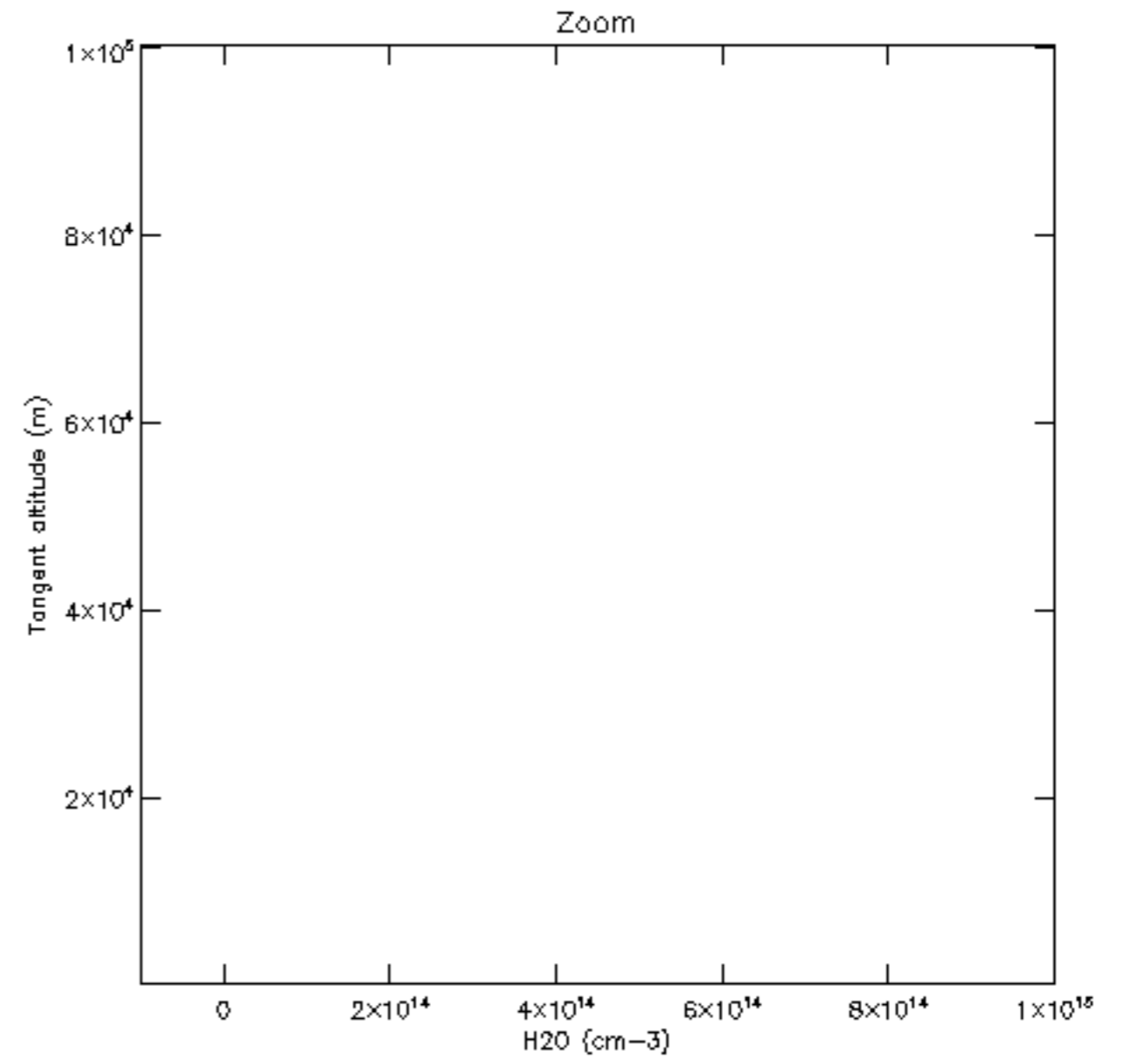
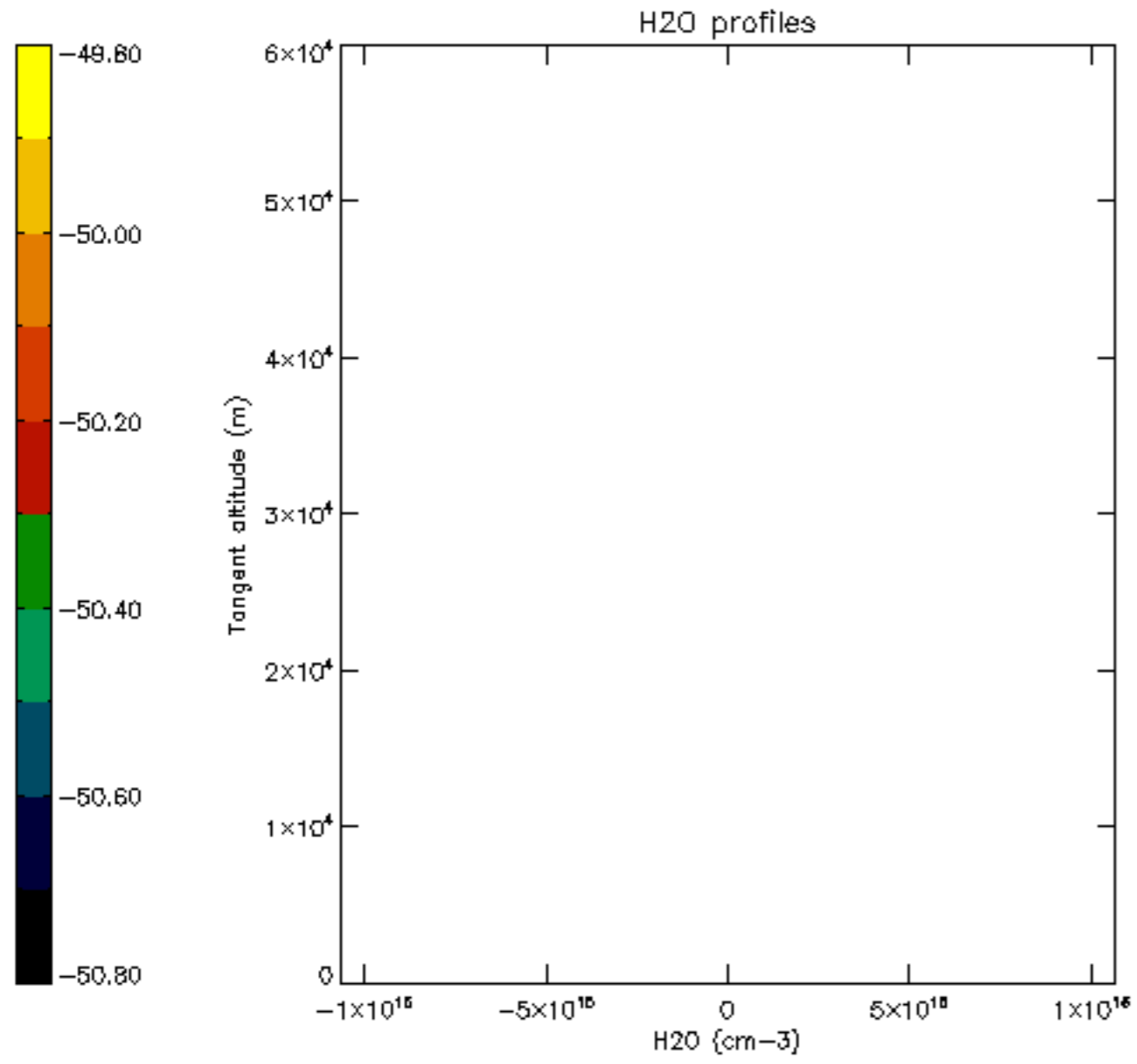


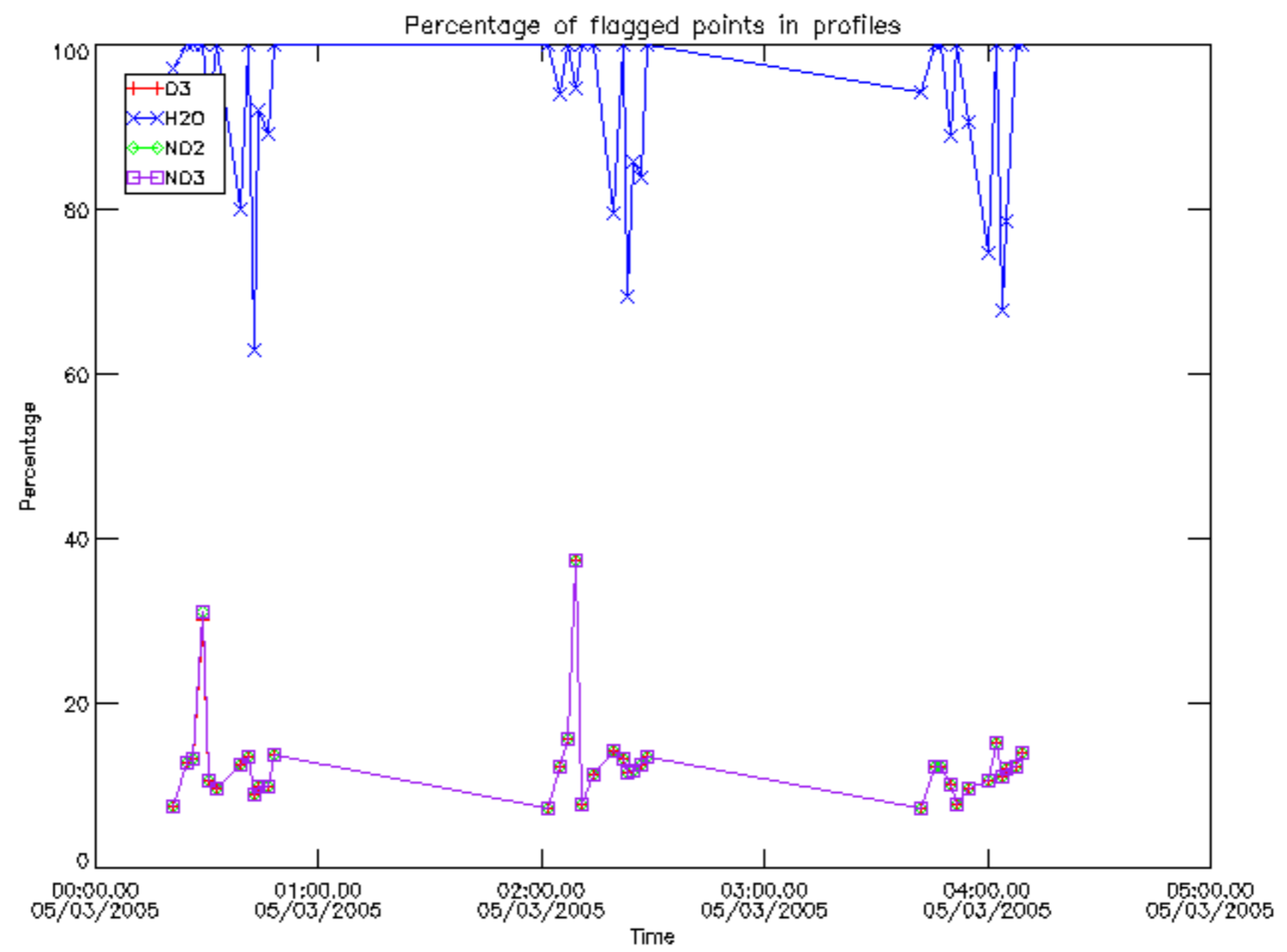




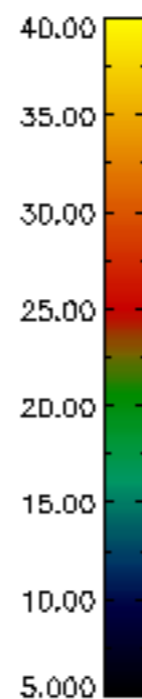
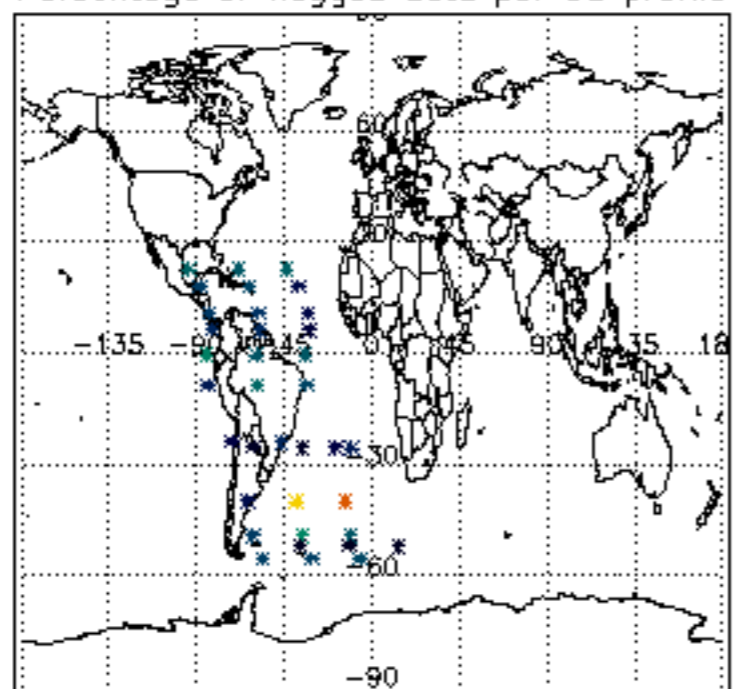




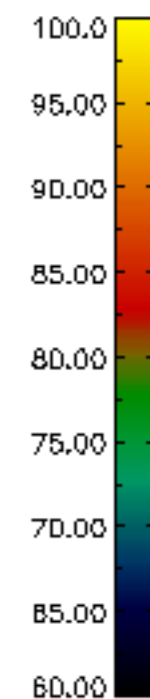
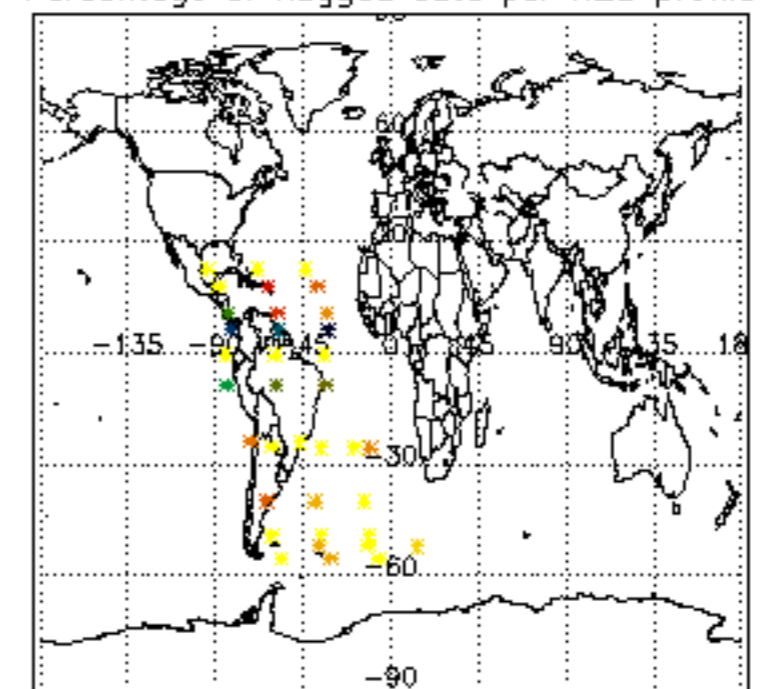




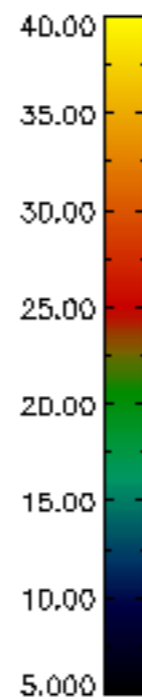
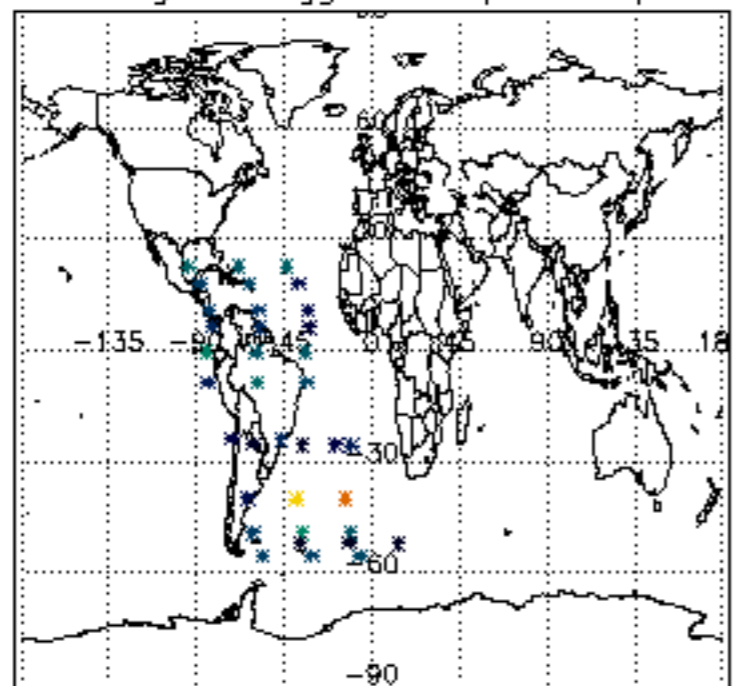
Percentage of flagged data per D3 profile



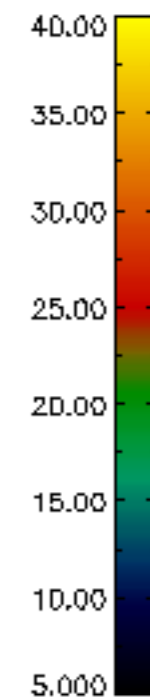
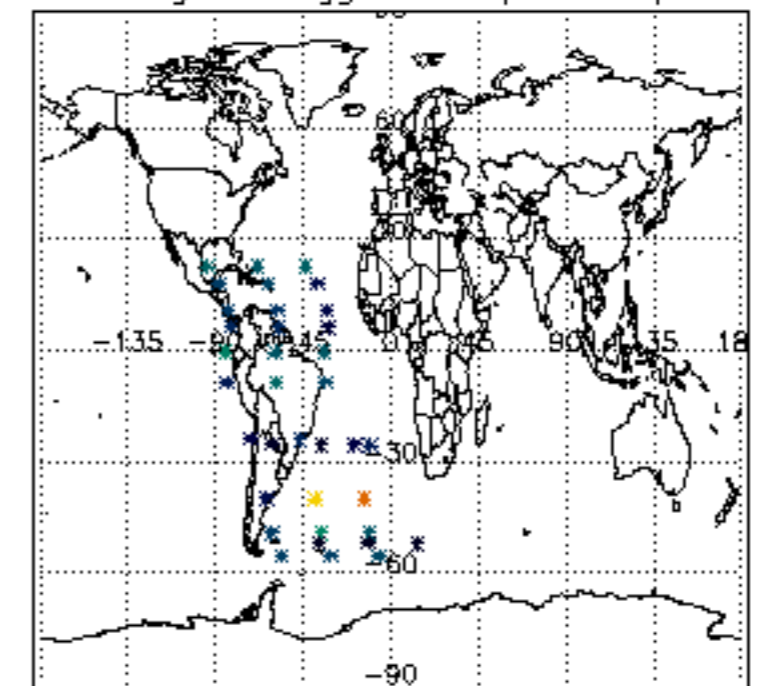
Percentage of flagged data per H2O profile

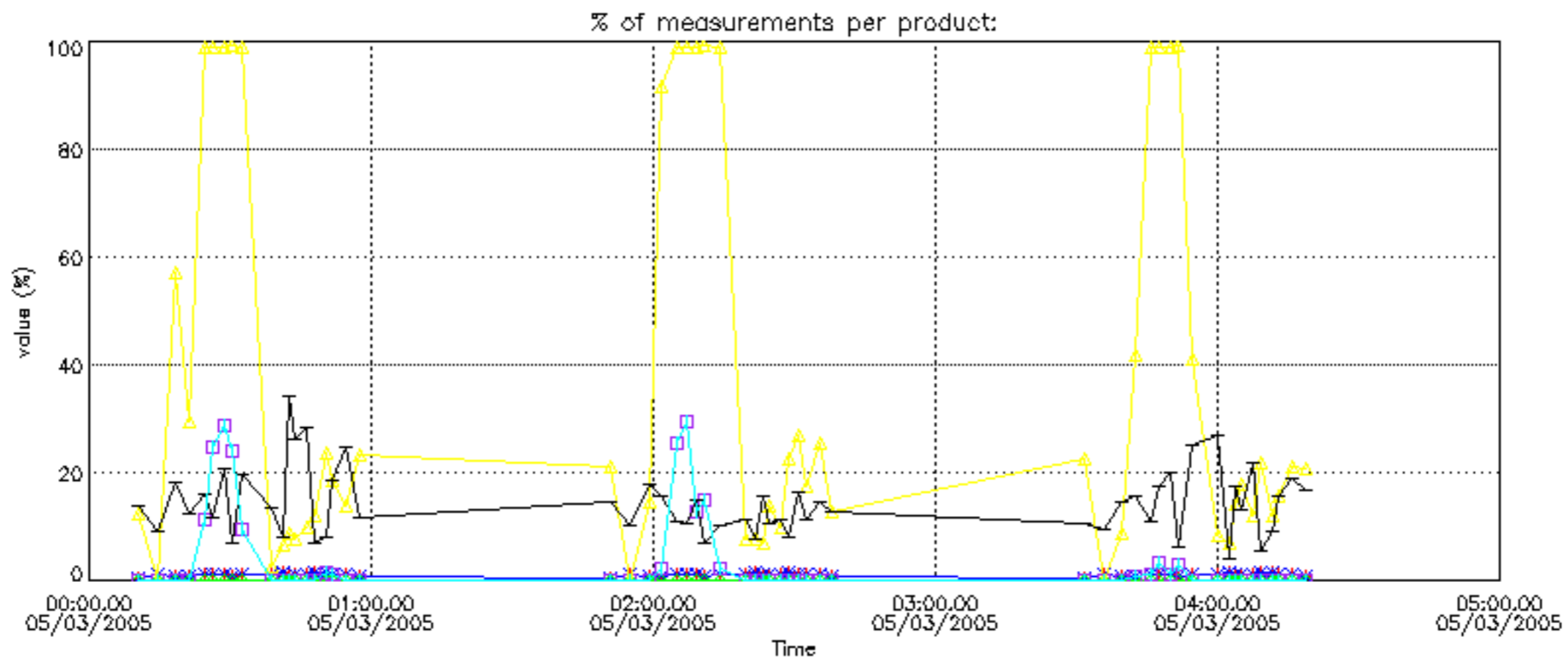


Percentage of flagged data per NO2 profile

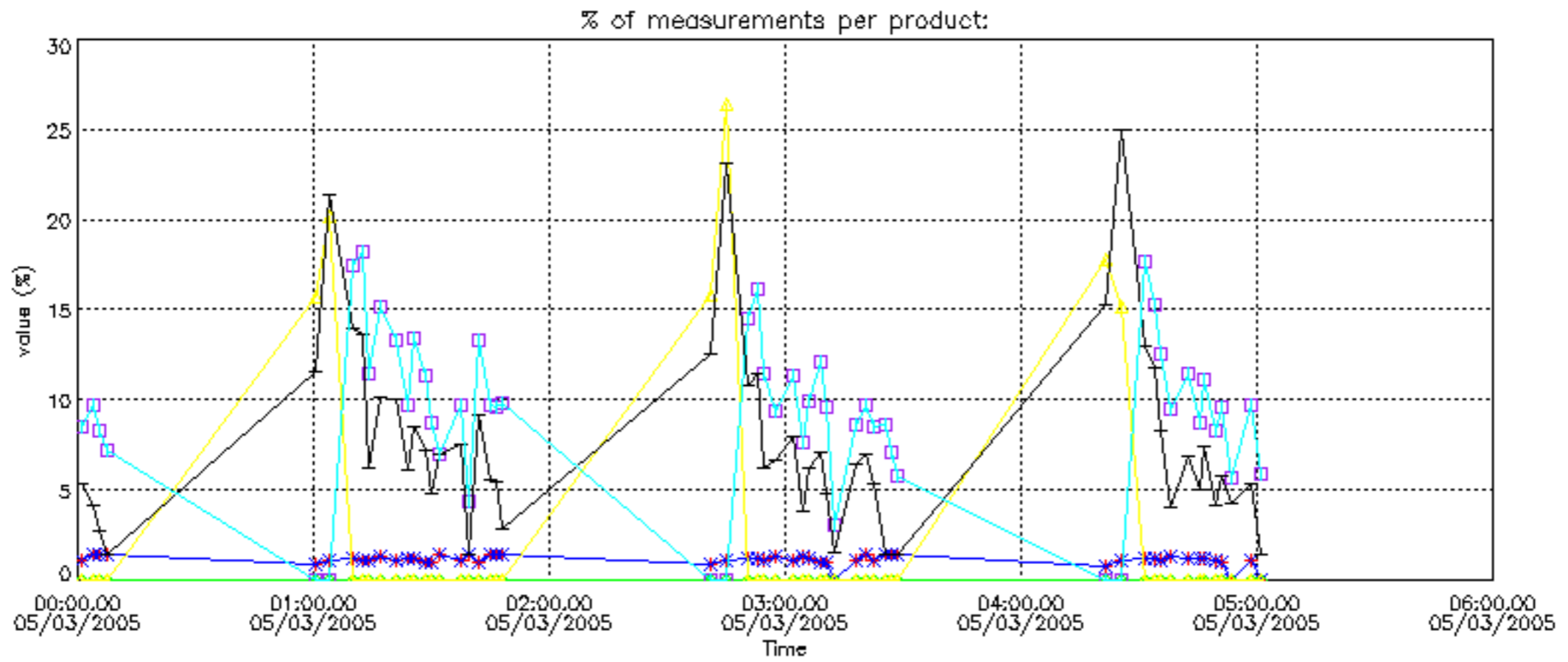


Percentage of flagged data per NO3 profile

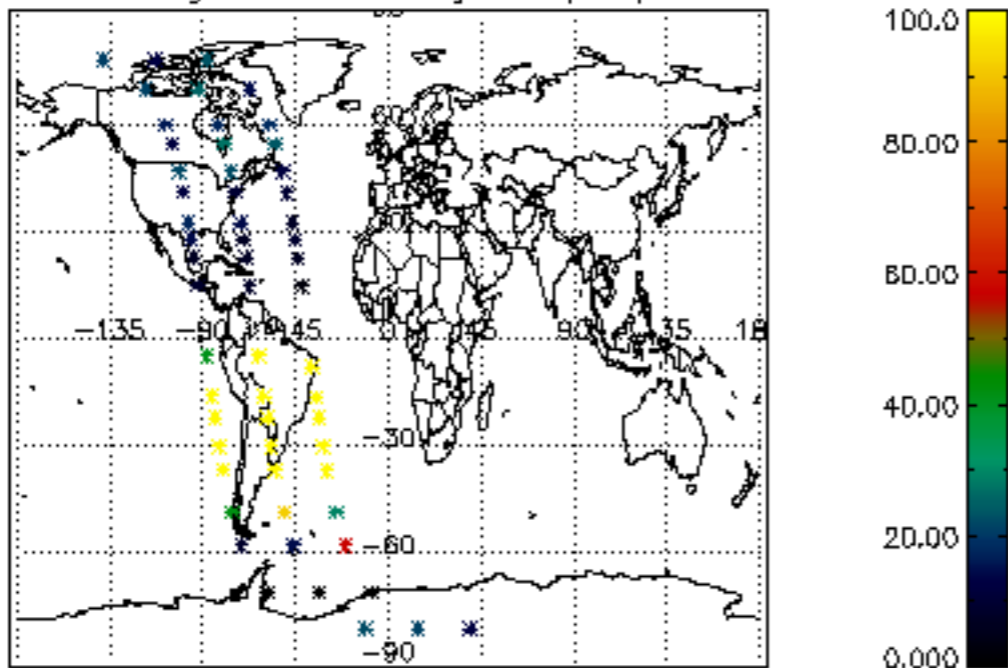




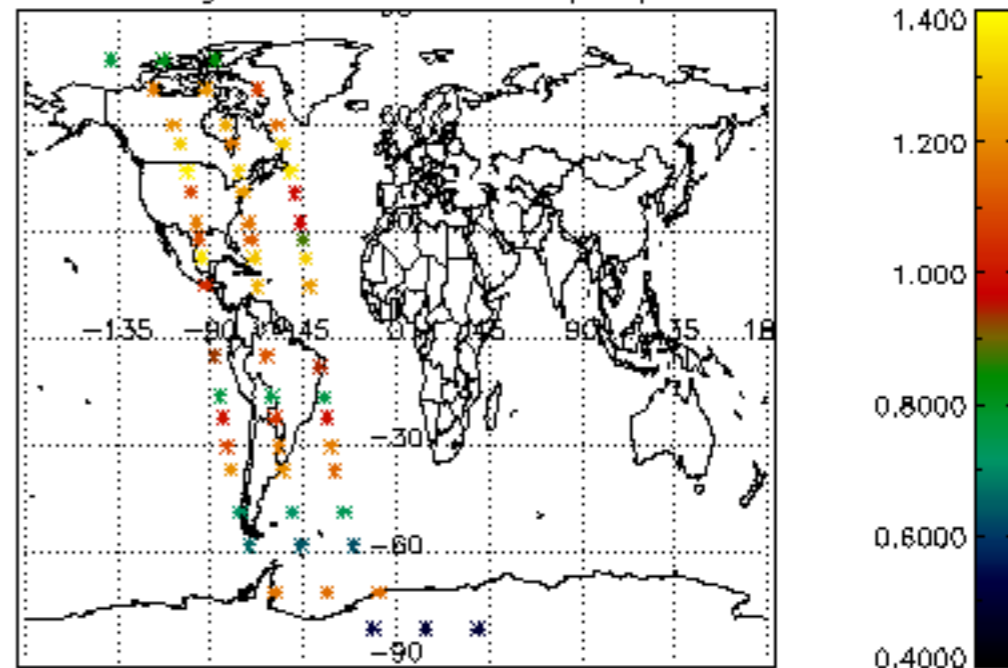




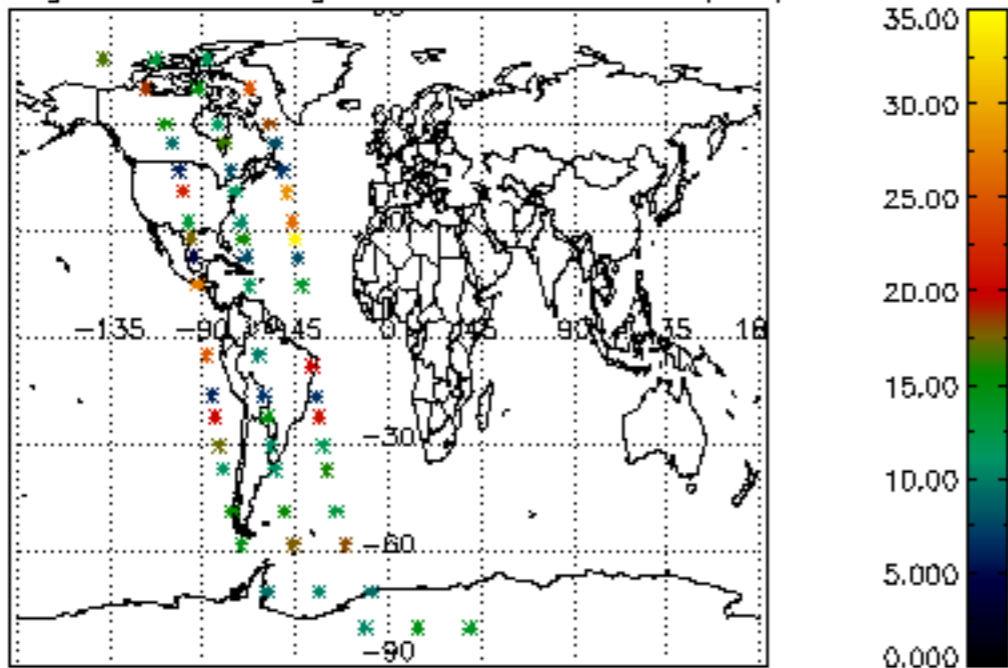
Percentage of cosmic ray hits per profile



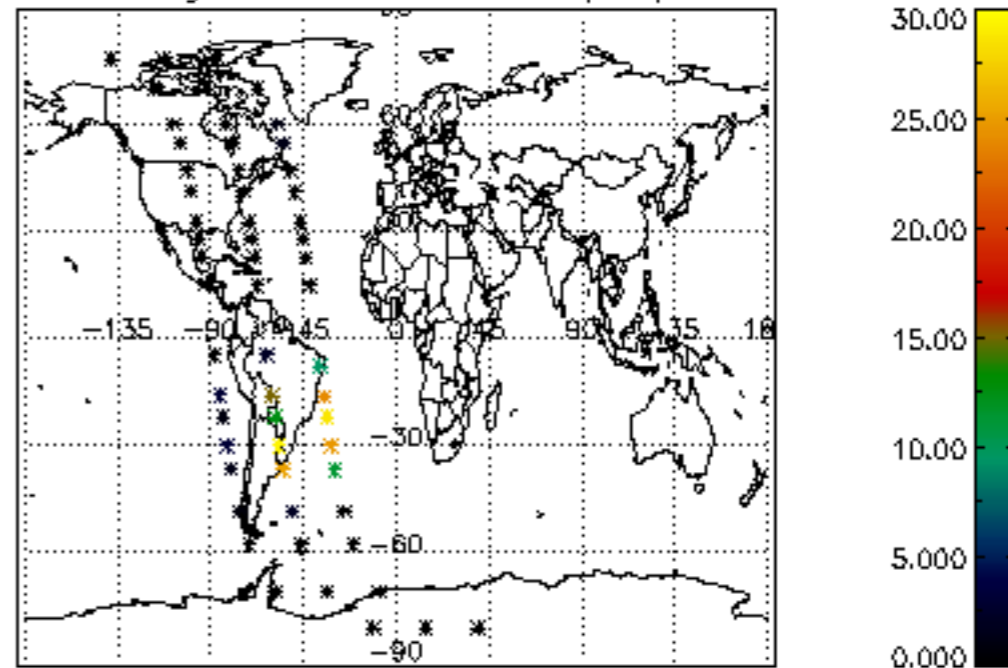
Percentage of datation errors per profile



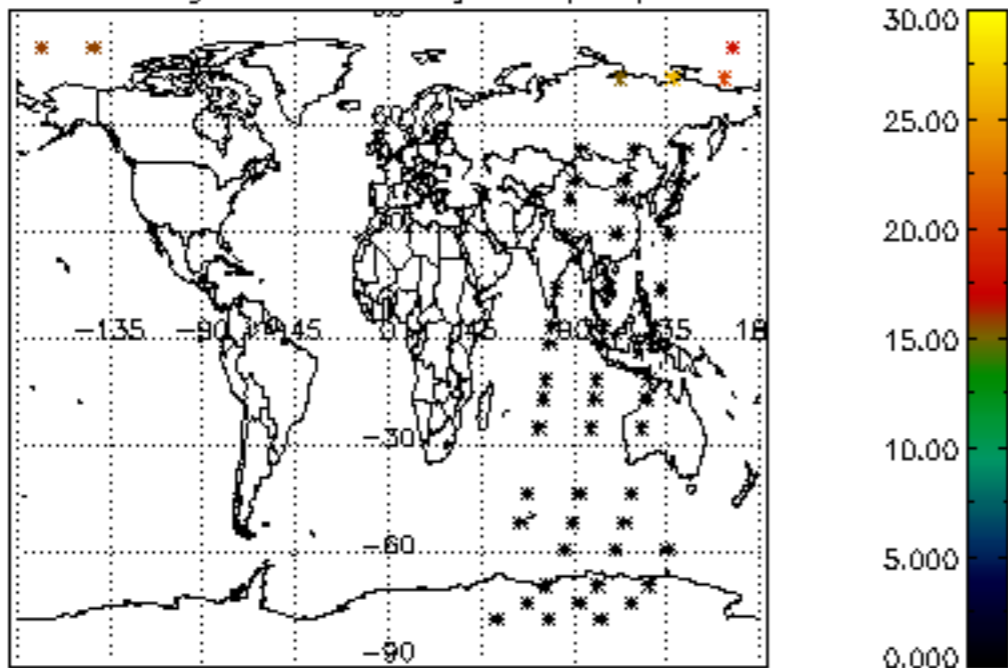
Percentage of star falling outside central band per profile



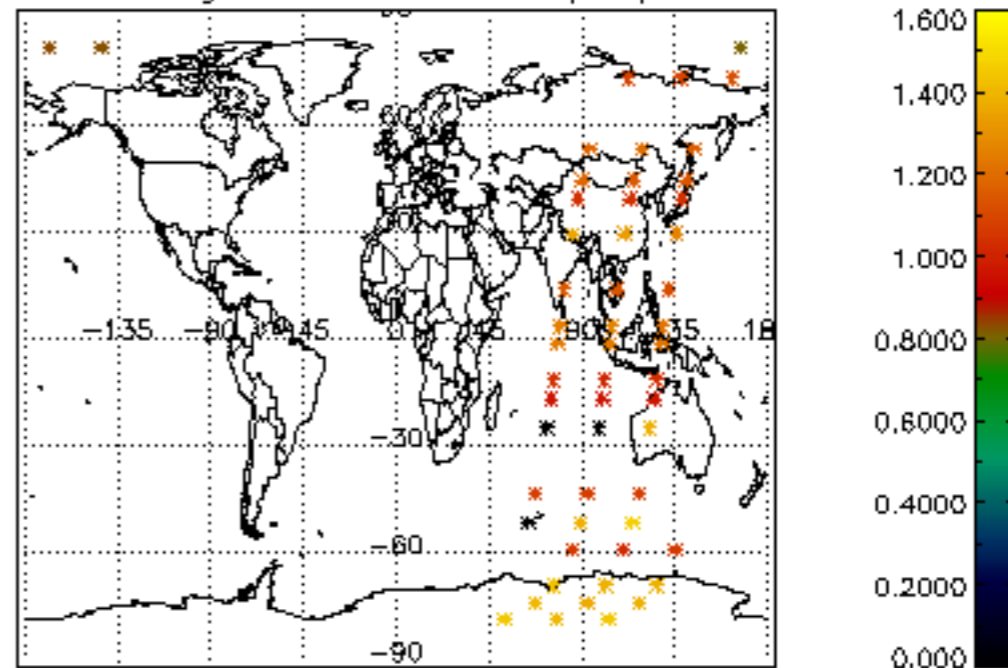
Percentage of saturation errors per profile



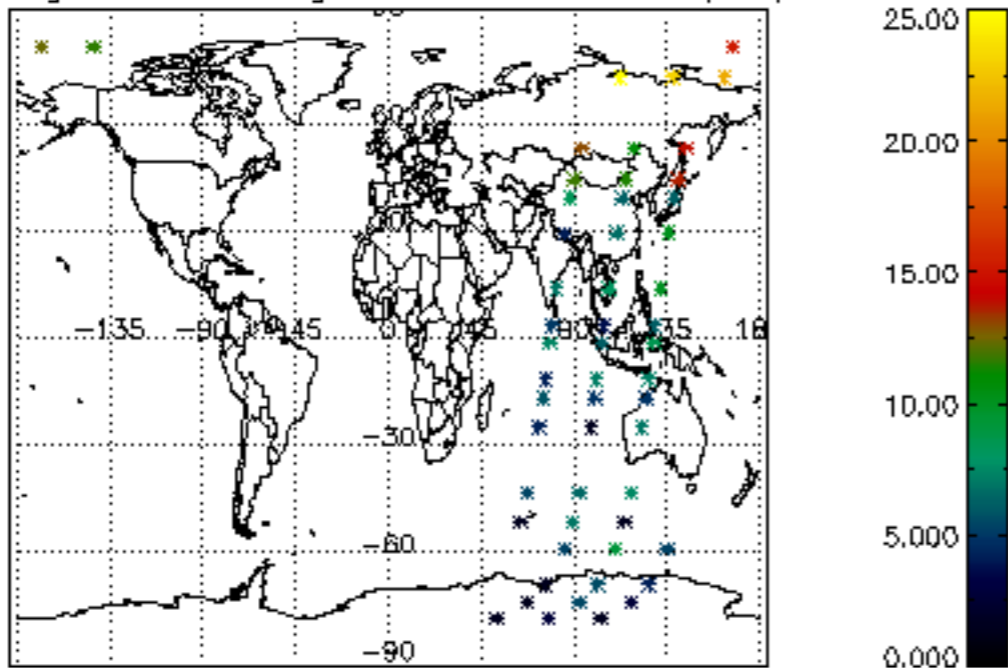
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

