

GOMOS Level 2 Daily Report

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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	19APR2013 23:02:15
Data source version	GOMOS/6.01
Start time of products	28-10-2003 (28OCT2003 00:00:00)
Stop time of products	29-10-2003 (29OCT2003 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	45
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

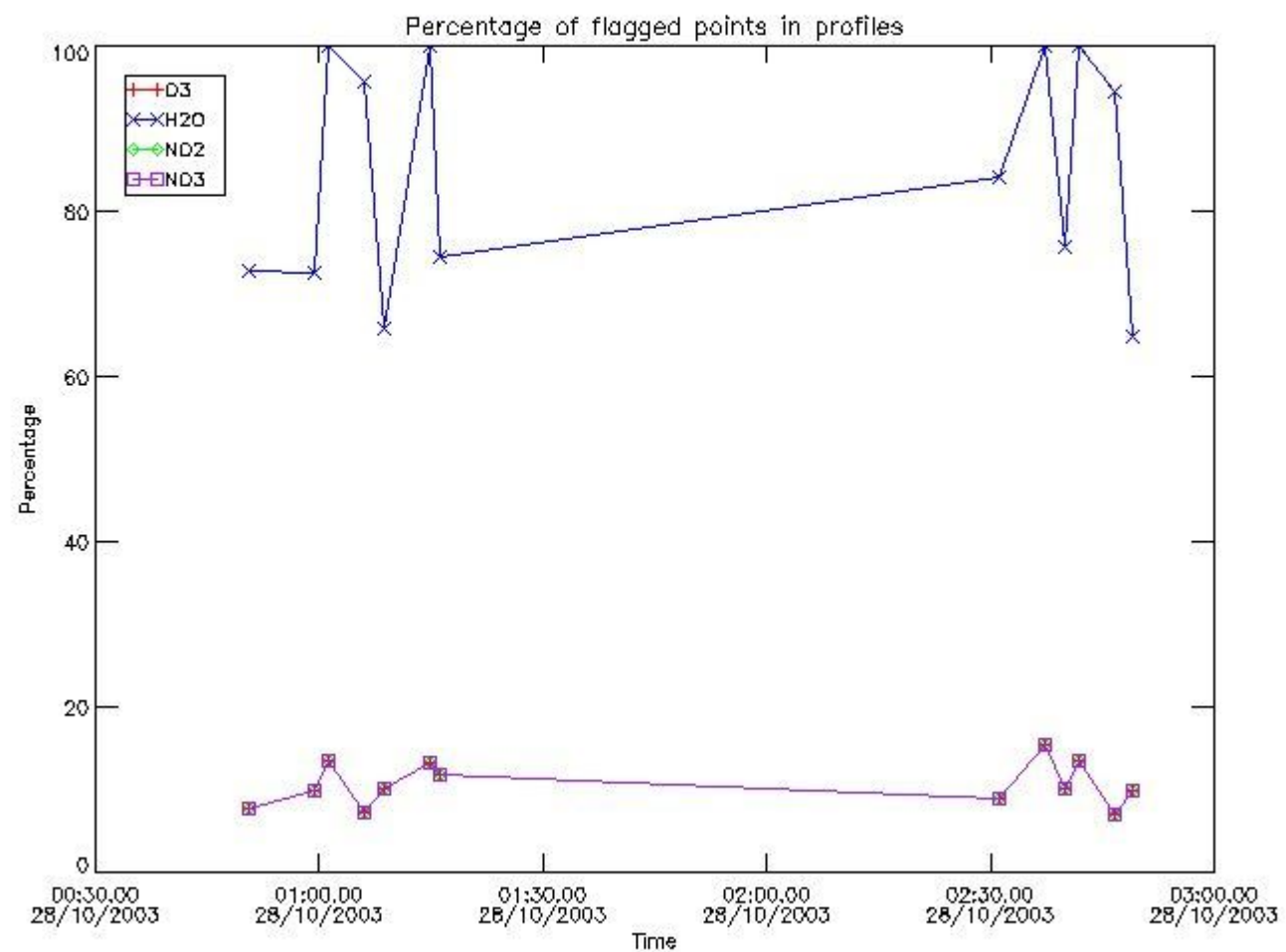
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20031028_000018_000000372021_00102_08673_7399.N1	28-OCT-2003 00:00:18	Bright	37.000	58	21Alp And	2.0730	11000.	74	8673	No
2	GOM_NL__2PRFIN20031028_000203_000000392021_00102_08673_7400.N1	28-OCT-2003 00:02:03	Bright	39.000	53	43Bet And	2.0480	3300.0	78	8673	No
3	GOM_NL__2PRFIN20031028_000446_000000442021_00102_08673_7401.N1	28-OCT-2003 00:04:46	Bright	43.500	73	57Gam1And	2.2600	13100.	87	8673	No
4	GOM_NL__2PRFIN20031028_000752_000000382021_00102_08673_7402.N1	28-OCT-2003 00:07:52	Bright	37.500	68	18Alp Cas	2.2250	4500.0	75	8673	No
5	GOM_NL__2PRFIN20031028_000906_000000382021_00102_08673_7403.N1	28-OCT-2003 00:09:06	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	8673	No
6	GOM_NL__2PRFIN20031028_001204_000000382021_00102_08673_7404.N1	28-OCT-2003 00:12:04	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	8673	No
7	GOM_NL__2PRFIN20031028_001707_000000382021_00102_08673_7405.N1	28-OCT-2003 00:17:07	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	8673	No
8	GOM_NL__2PRFIN20031028_002046_000000392021_00102_08673_7406.N1	28-OCT-2003 00:20:46	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	8673	No
9	GOM_NL__2PRFIN20031028_002520_000000412021_00102_08673_7407.N1	28-OCT-2003 00:25:20	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	8673	No
10	GOM_NL__2PRFIN20031028_002643_000000382021_00102_08673_7408.N1	28-OCT-2003 00:26:43	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	8673	No
11	GOM_NL__2PRFIN20031028_003031_000000382021_00102_08673_7409.N1	28-OCT-2003 00:30:31	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	8673	No
12	GOM_NL__2PRFIN20031028_003809_000000722021_00102_08673_7410.N1	28-OCT-2003 00:38:09	Bright	72.000	166	17Eps Leo	2.9800	6000.0	144	8673	No
13	GOM_NL__2PRFIN20031028_004051_000002552021_00102_08673_7411.N1	28-OCT-2003 00:40:51	Twilight	255.00	17	78Bet Gem	1.1610	4500.0	510	8673	No
14	GOM_NL__2PRFIN20031028_005027_000000672021_00102_08673_7412.N1	28-OCT-2003 00:50:27	Dark	66.500	48	30Alp Hya	1.9770	4100.0	133	8673	No
15	GOM_NL__2PRFIN20031028_005927_000000522021_00102_08673_7413.N1	28-OCT-2003 00:59:27	Dark	51.500	65	Lam Vel	2.2040	4400.0	103	8673	No
16	GOM_NL__2PRFIN20031028_010109_000000382021_00103_08674_7388.N1	28-OCT-2003 01:01:09	Dark	38.000	124	The Car	2.7640	30000.	76	8674	No
17	GOM_NL__2PRFIN20031028_010605_000000712021_00103_08674_7389.N1	28-OCT-2003 01:06:05	Dark	70.500	88	31Eta CMa	2.4480	20000.	141	8674	No
18	GOM_NL__2PRFIN20031028_010834_000000502021_00103_08674_7390.N1	28-OCT-2003 01:08:34	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	8674	No
19	GOM_NL__2PRFIN20031028_011447_000000392021_00103_08674_7391.N1	28-OCT-2003 01:14:47	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	8674	No
20	GOM_NL__2PRFIN20031028_011611_000000442021_00103_08674_7392.N1	28-OCT-2003 01:16:11	Dark	43.500	9	Alp Eri	0.45300	24000.	87	8674	No
21	GOM_NL__2PRFIN20031028_011919_000000432021_00103_08674_7393.N1	28-OCT-2003 01:19:19	Straylight	42.500	157	The1Eri	2.9060	9300.0	85	8674	No
22	GOM_NL__2PRFIN20031028_012100_000000422021_00103_08674_7394.N1	28-OCT-2003 01:21:00	Straylight	42.000	84	Alp Phe	2.3970	4500.0	84	8674	No
23	GOM_NL__2PRFIN20031028_012733_000000492021_00103_08674_7395.N1	28-OCT-2003 01:27:33	Straylight	49.000	52	16Bet Cet	2.0370	4500.0	98	8674	No
24	GOM_NL__2PRFIN20031028_013433_000000682021_00103_08674_7396.N1	28-OCT-2003 01:34:33	Bright	67.500	94	92Alp Cet	2.5260	3100.0	135	8674	No
25	GOM_NL__2PRFIN20031028_013702_000000362021_00103_08674_7397.N1	28-OCT-2003 01:37:02	Bright	36.000	140	88Gam Peg	2.8340	26000.	72	8674	No
26	GOM_NL__2PRFIN20031028_013846_000000422021_00103_08674_7398.N1	28-OCT-2003 01:38:46	Bright	42.000	105	6Bet Ari	2.6450	8900.0	84	8674	No
27	GOM_NL__2PRFIN20031028_014054_000000372021_00103_08674_7399.N1	28-OCT-2003 01:40:54	Bright	36.500	58	21Alp And	2.0730	11000.	73	8674	No
28	GOM_NL__2PRFIN20031028_014239_000000402021_00103_08674_7400.N1	28-OCT-2003 01:42:39	Bright	40.000	53	43Bet And	2.0480	3300.0	80	8674	No
29	GOM_NL__2PRFIN20031028_014521_000000422021_00103_08674_7401.N1	28-OCT-2003 01:45:21	Bright	42.000	73	57Gam1And	2.2600	13100.	84	8674	No
30	GOM_NL__2PRFIN20031028_014828_000000392021_00103_08674_7402.N1	28-OCT-2003 01:48:28	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	8674	No
31	GOM_NL__2PRFIN20031028_014942_000000372021_00103_08674_7403.N1	28-OCT-2003 01:49:42	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	8674	No
32	GOM_NL__2PRFIN20031028_015240_000000382021_00103_08674_7404.N1	28-OCT-2003 01:52:40	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	8674	No
33	GOM_NL__2PRFIN20031028_015744_000000362021_00103_08674_7405.N1	28-OCT-2003 01:57:44	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	8674	No
34	GOM_NL__2PRFIN20031028_020122_000000392021_00103_08674_7406.N1	28-OCT-2003 02:01:22	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	8674	No
35	GOM_NL__2PRFIN20031028_020556_000000382021_00103_08674_7407.N1	28-OCT-2003 02:05:56	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	8674	No
36	GOM_NL__2PRFIN20031028_020719_000000372021_00103_08674_7408.N1	28-OCT-2003 02:07:19	Bright	36.500	32	77Eps UMa	1.7630	11000.	73	8674	No
37	GOM_NL__2PRFIN20031028_021107_000000392021_00103_08674_7409.N1	28-OCT-2003 02:11:07	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	8674	No
38	GOM_NL__2PRFIN20031028_021845_000000532021_00103_08674_7410.N1	28-OCT-2003 02:18:45	Bright	52.500	166	17Eps Leo	2.9800	6000.0	105	8674	No
39	GOM_NL__2PRFIN20031028_022129_000002552021_00103_08674_7411.N1	28-OCT-2003 02:21:29	Twilight	255.00	17	78Bet Gem	1.1610	4500.0	510	8674	No
40	GOM_NL__2PRFIN20031028_023104_000000642021_00103_08674_7412.N1	28-OCT-2003 02:31:04	Dark	63.500	48	30Alp Hya	1.9770	4100.0	127	8674	No
41	GOM_NL__2PRFIN20031028_023716_000000402021_00103_08674_7413.N1	28-OCT-2003 02:37:16	Dark	39.500	99	Del Cen	2.5750	26000.	79	8674	No
42	GOM_NL__2PRFIN20031028_024004_000000502021_00103_08674_7414.N1	28-OCT-2003 02:40:04	Dark	50.000	65	Lam Vel	2.2040	4400.0	100	8674	No

43	GOM_NL__2PRFIN20031028_024146_000000382021_00104_08675_7408.N1	28-OCT-2003 02:41:46	Dark	37.500	124	The Car	2.7640	30000.	75	8675	No
44	GOM_NL__2PRFIN20031028_024643_000000732021_00104_08675_7409.N1	28-OCT-2003 02:46:43	Dark	73.000	88	31Eta CMa	2.4480	20000.	146	8675	No
45	GOM_NL__2PRFIN20031028_024911_000000512021_00104_08675_7410.N1	28-OCT-2003 02:49:11	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	8675	No

3. Quality information per product

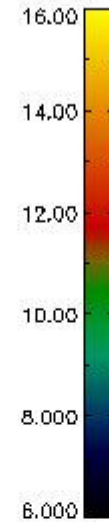
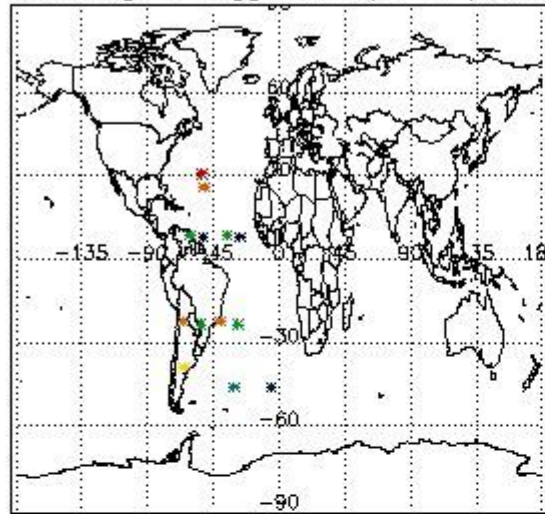
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

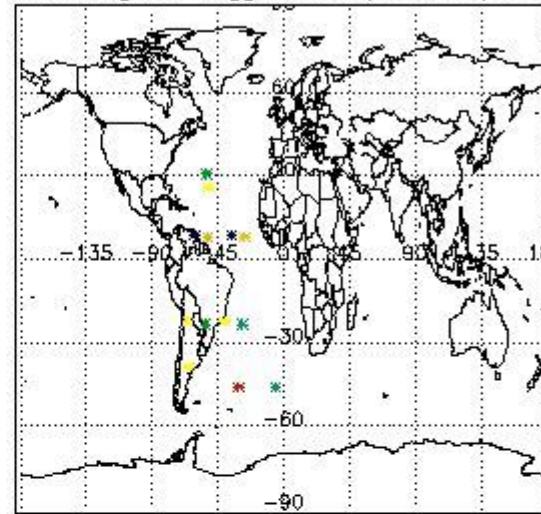


3.2 Plot quality information per product (world map)

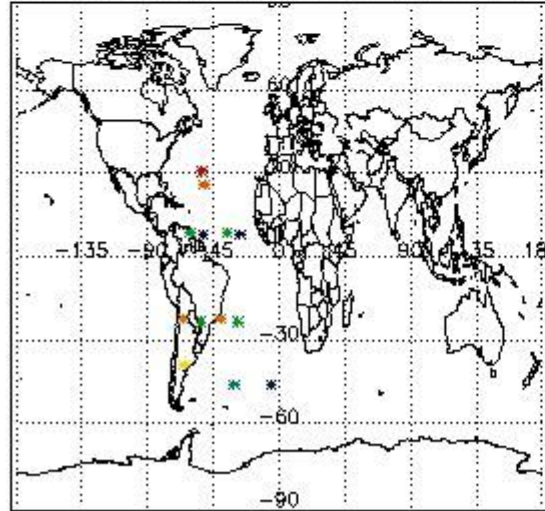
Percentage of flagged data per O3 profile



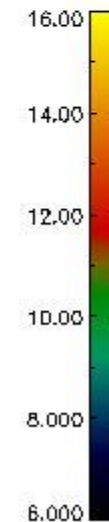
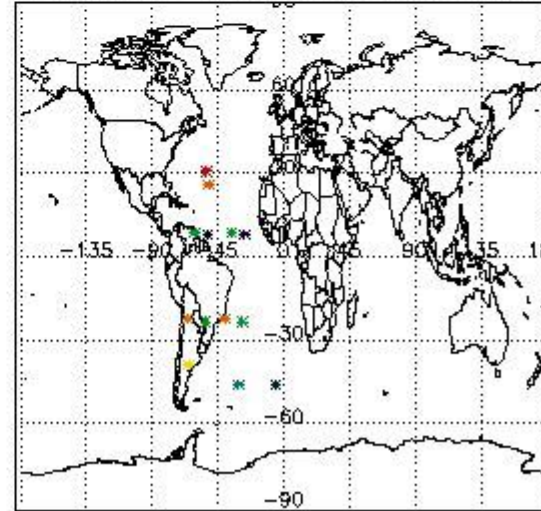
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

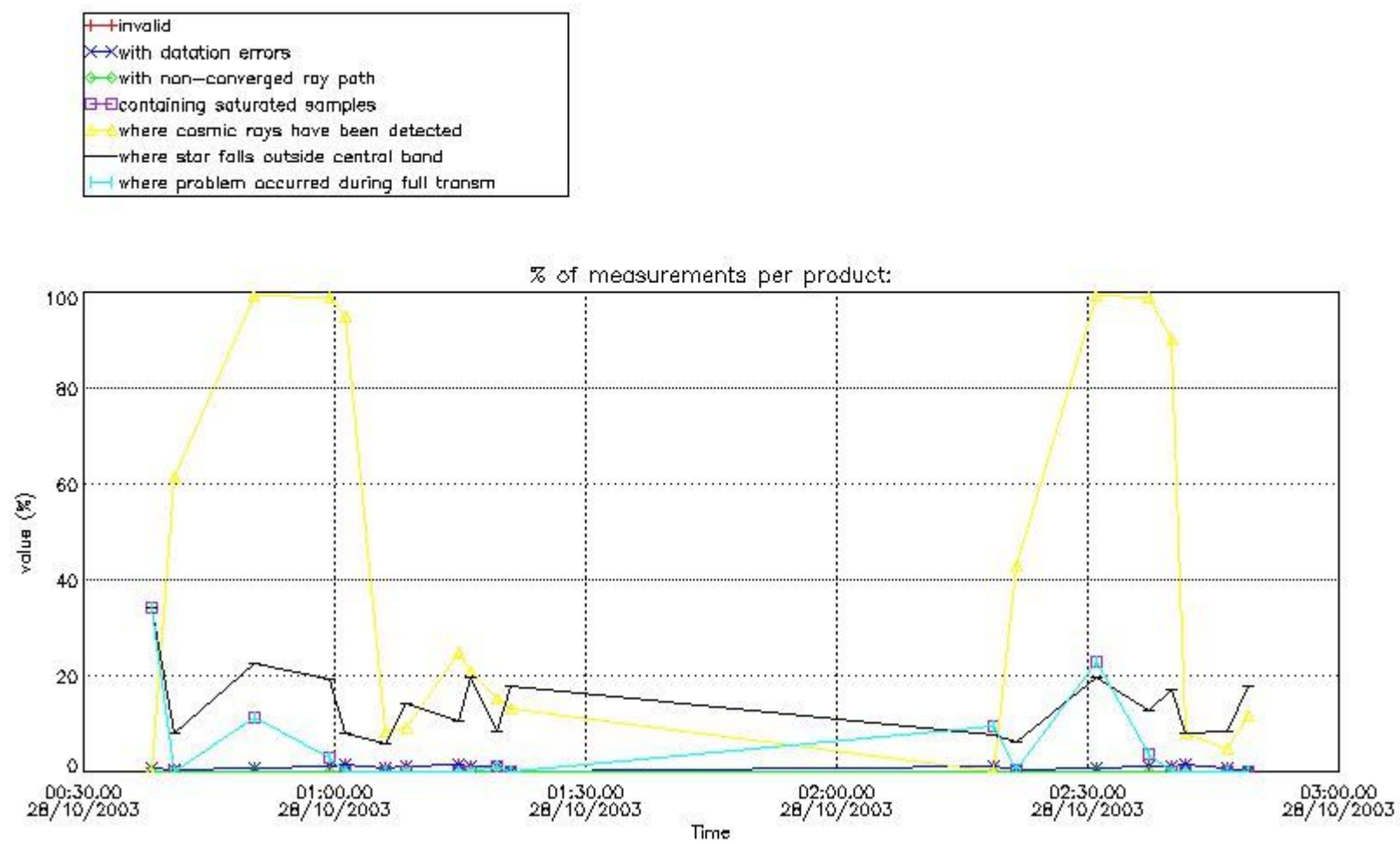


4. Level 1 quality information per product

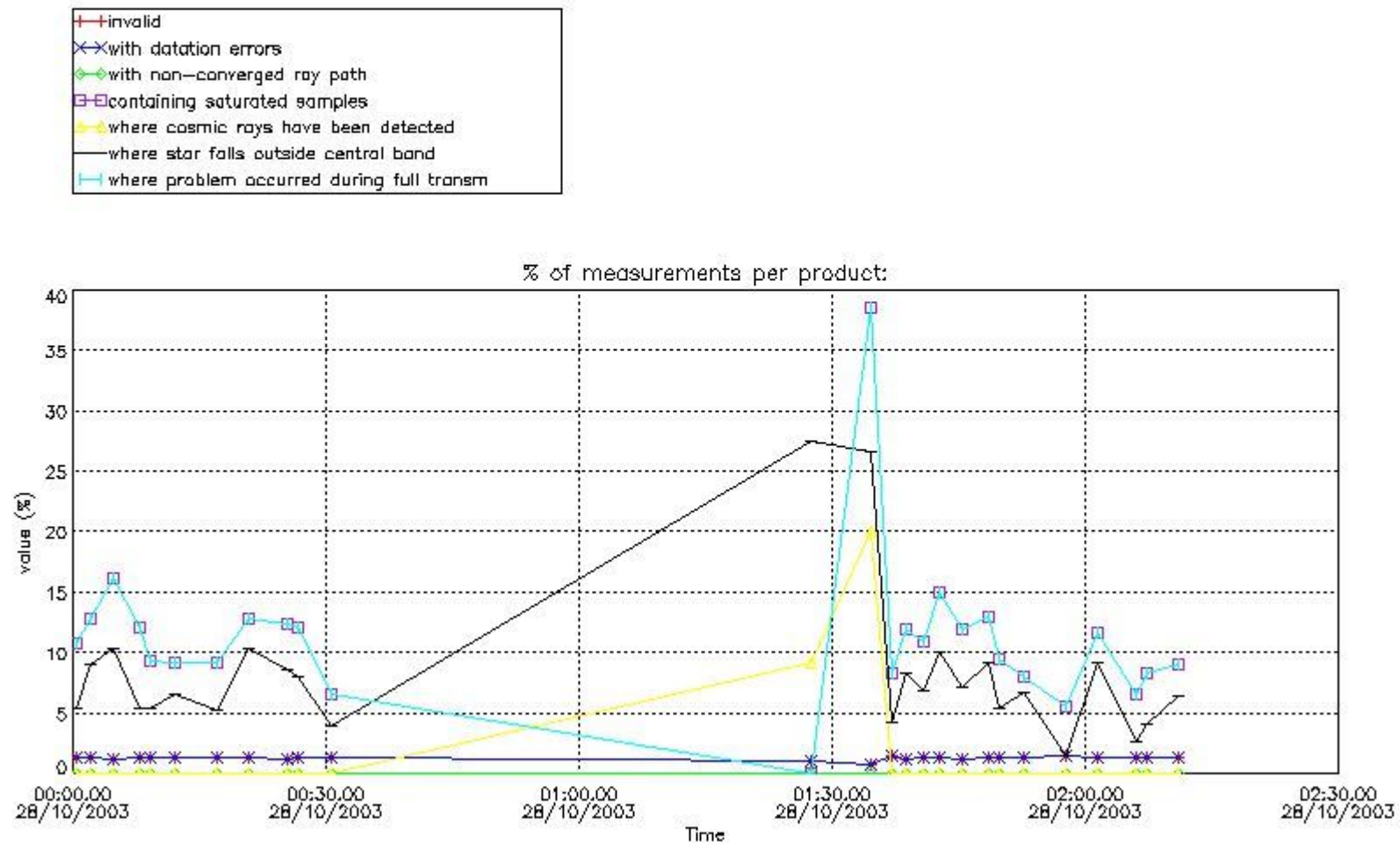
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



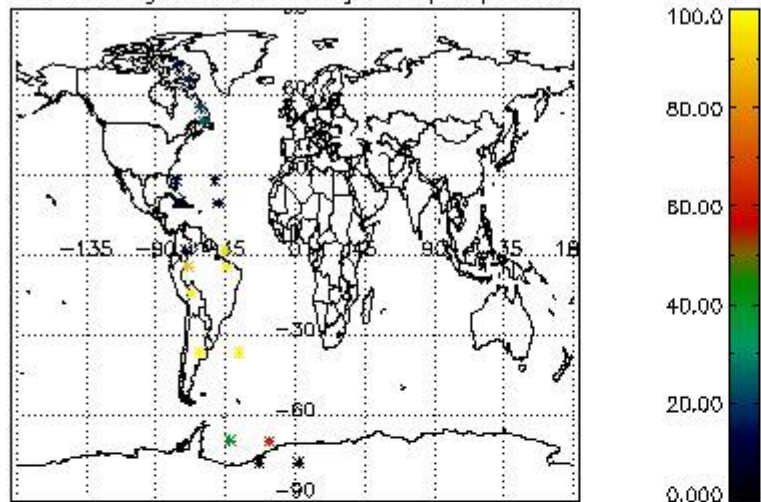
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



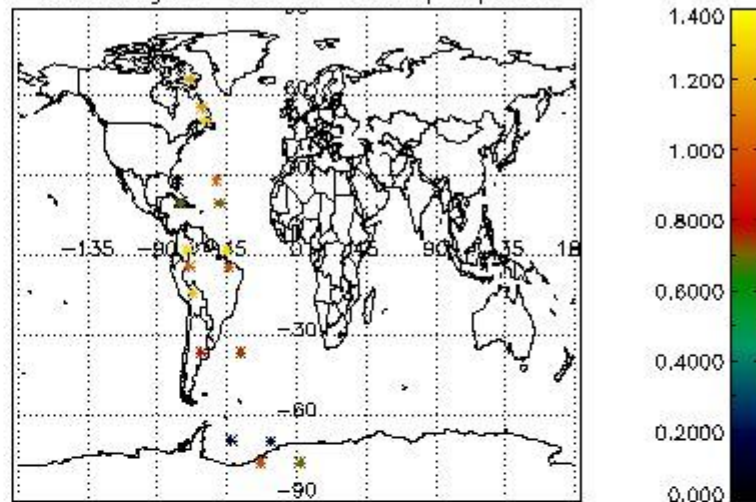
4.2 Plot quality information per product coming from level 1b processing (world map)

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

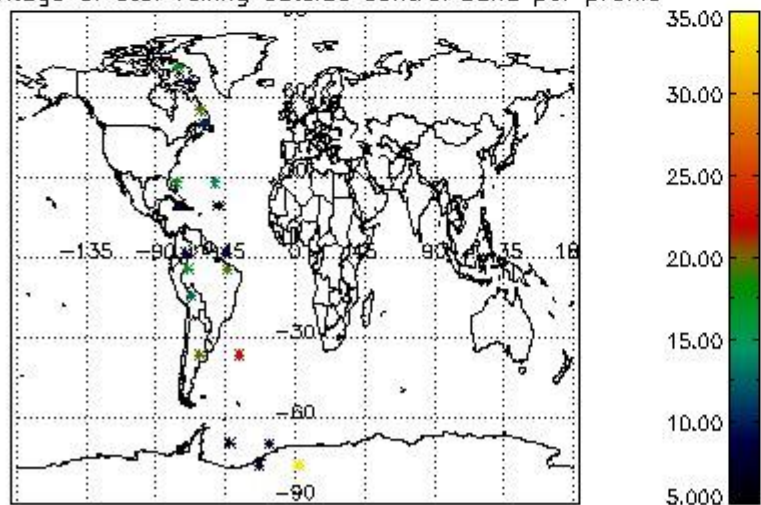
Percentage of cosmic ray hits per profile



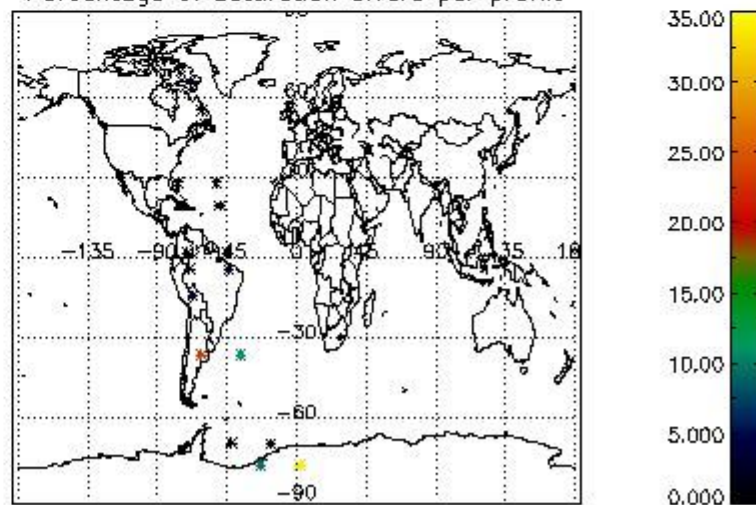
Percentage of datation errors per profile



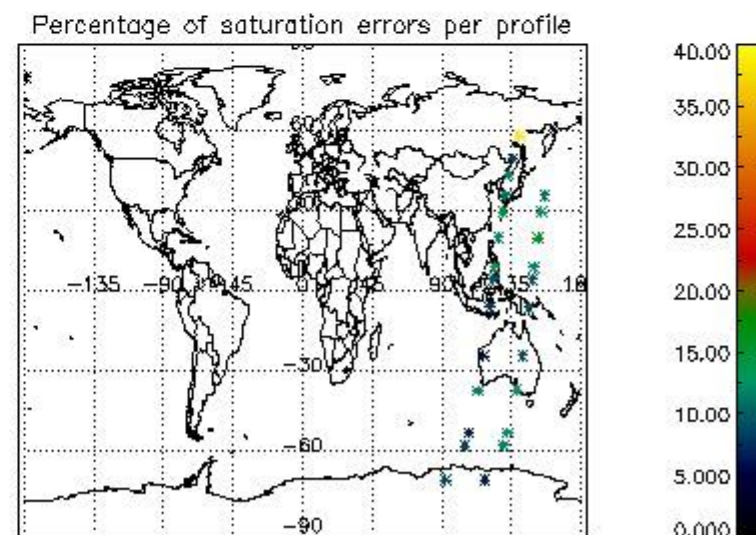
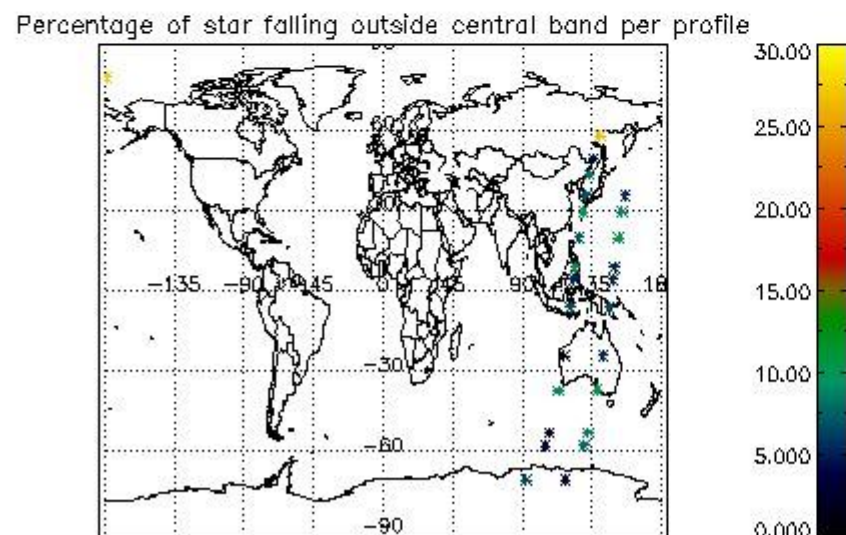
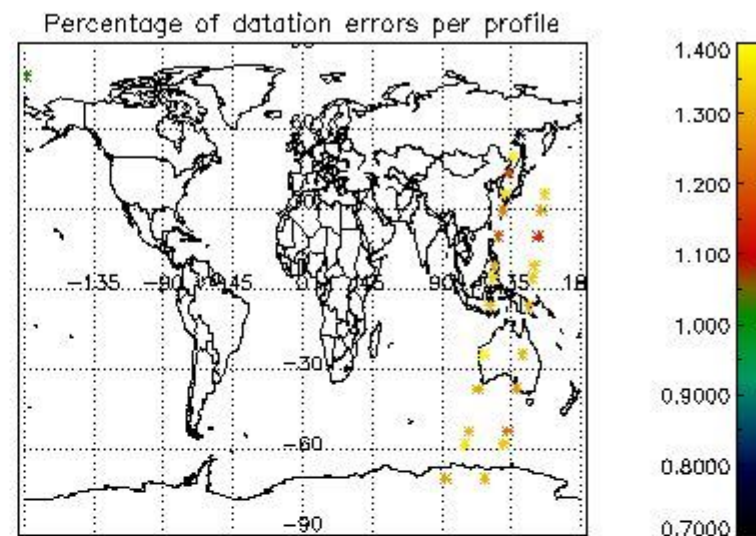
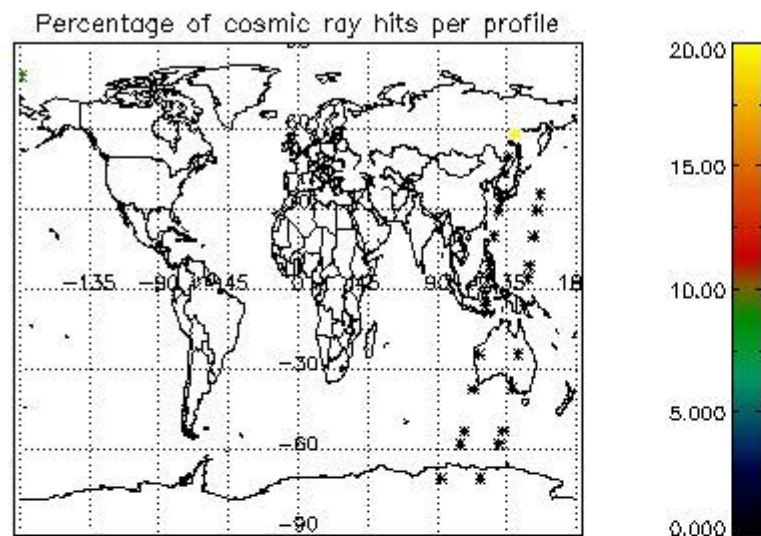
Percentage of star falling outside central band per profile



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

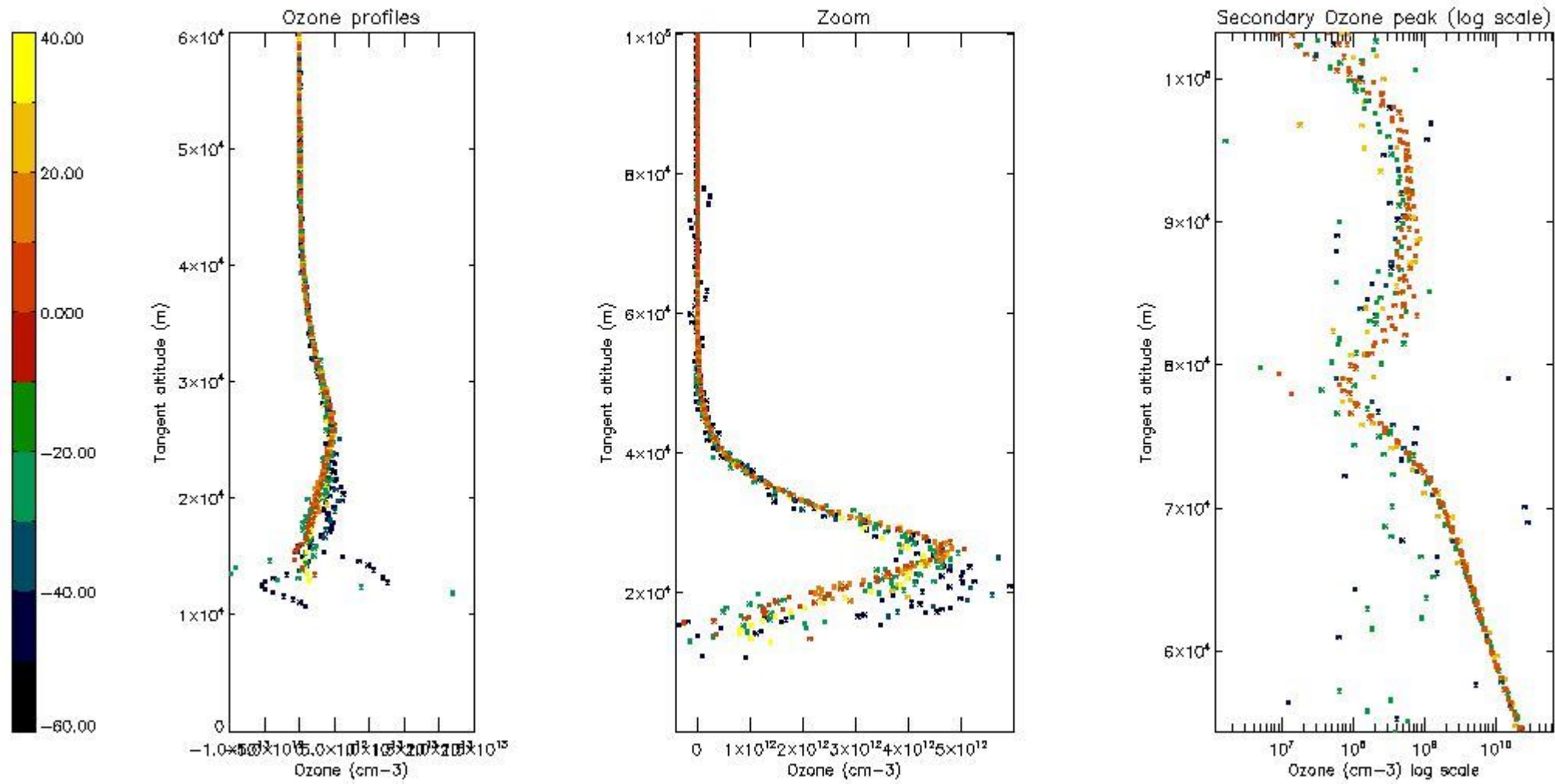
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	16

STD < 10	13
STD < 5	10

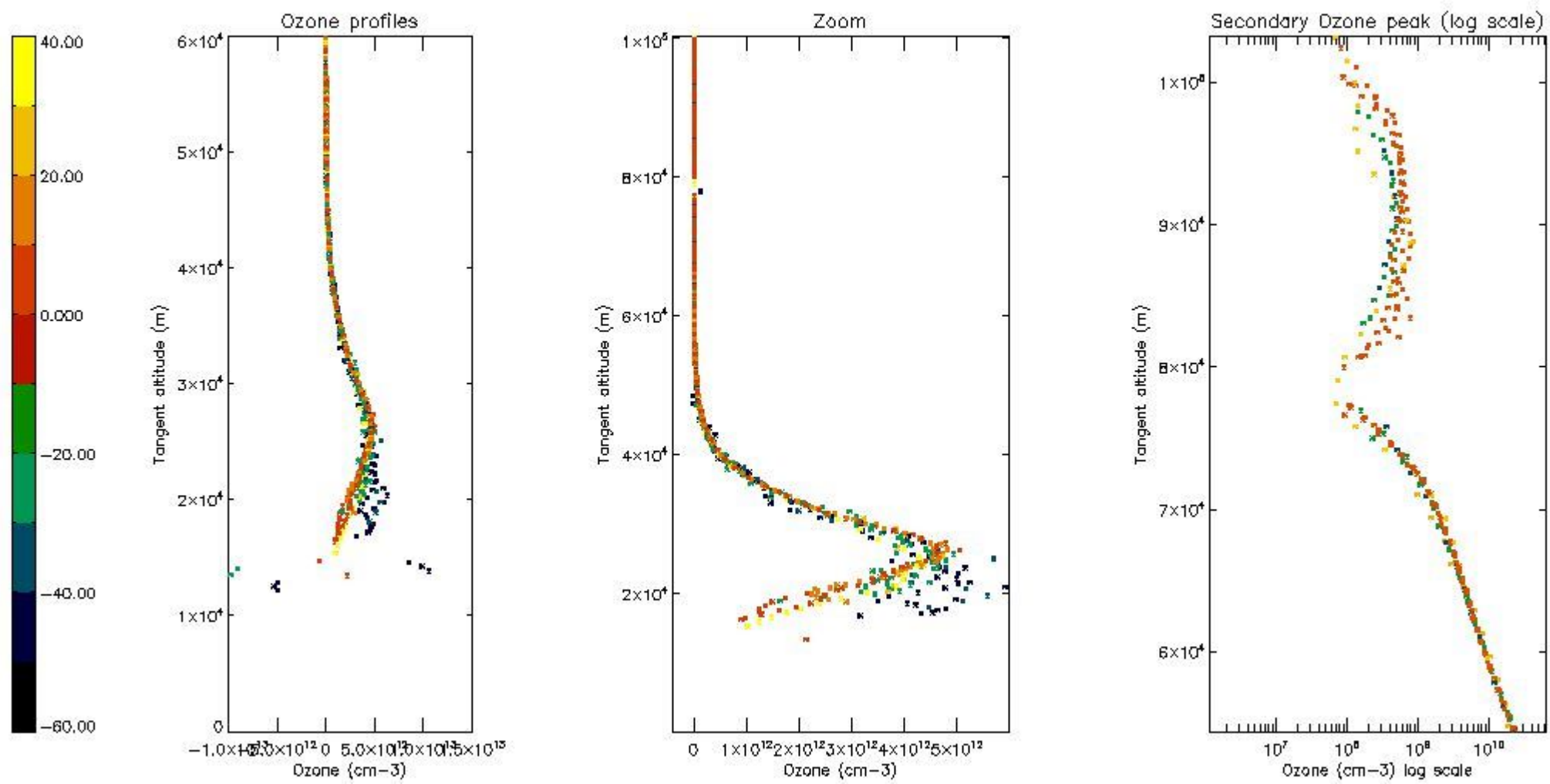
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



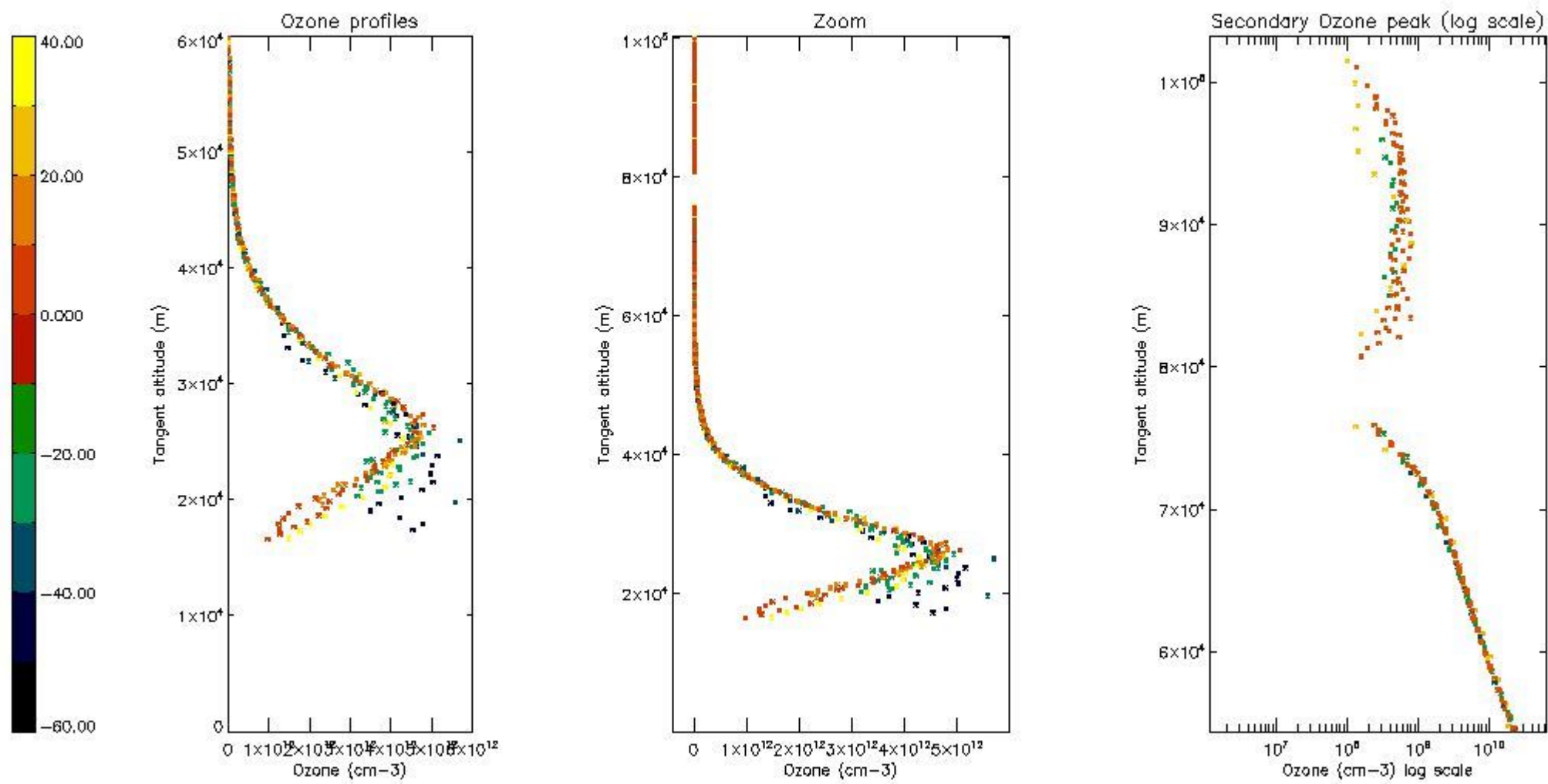
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



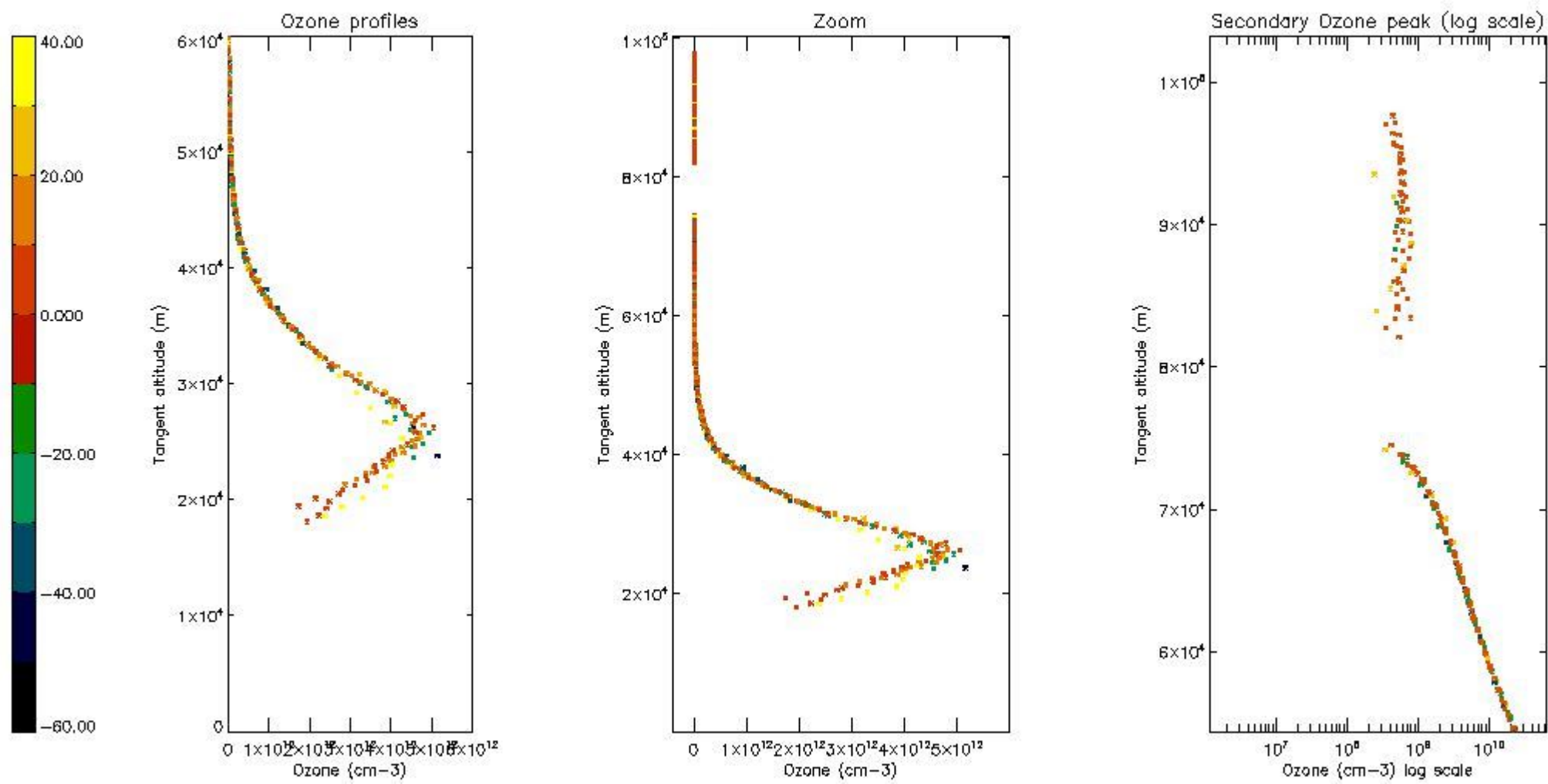
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



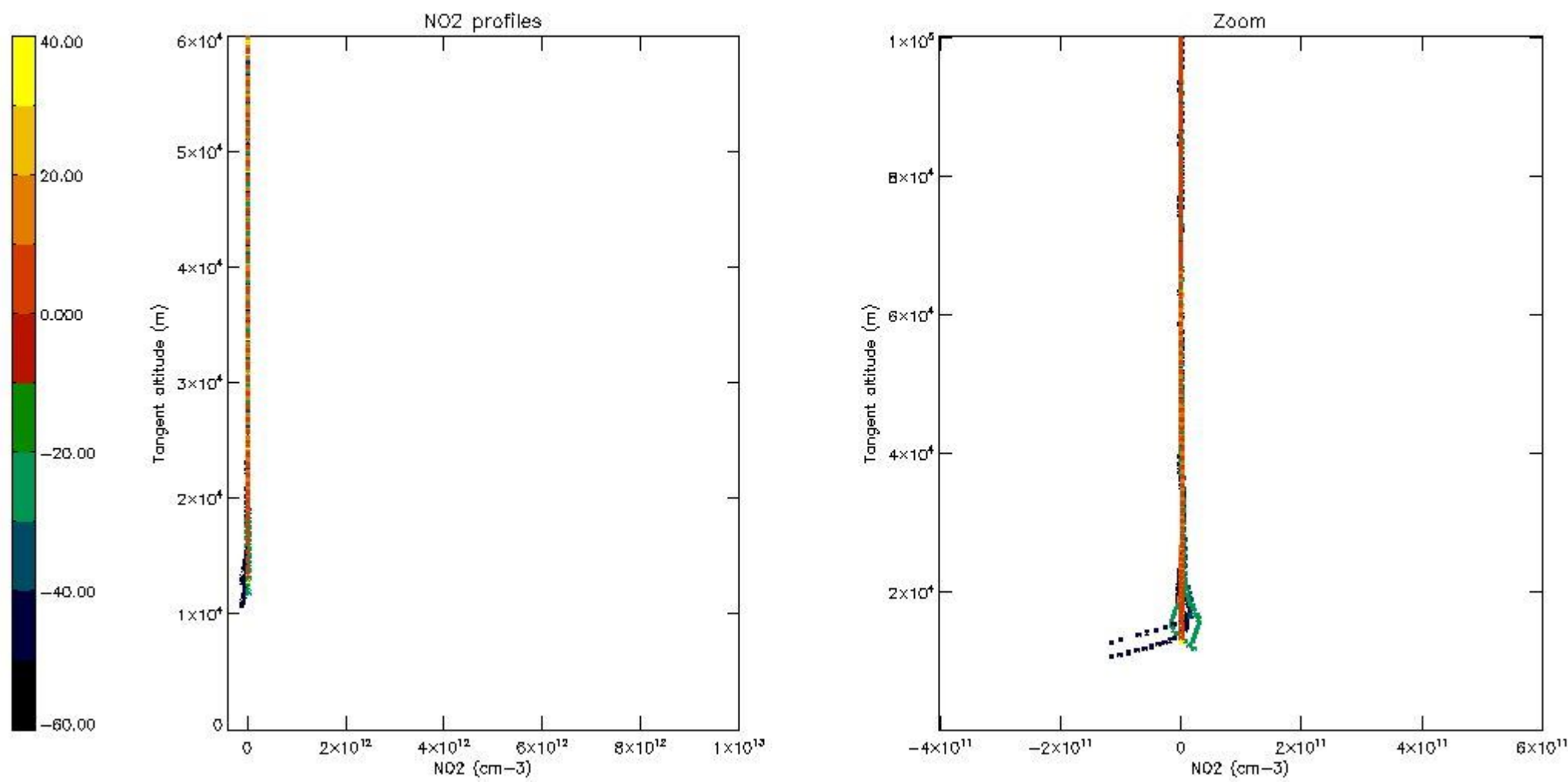
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



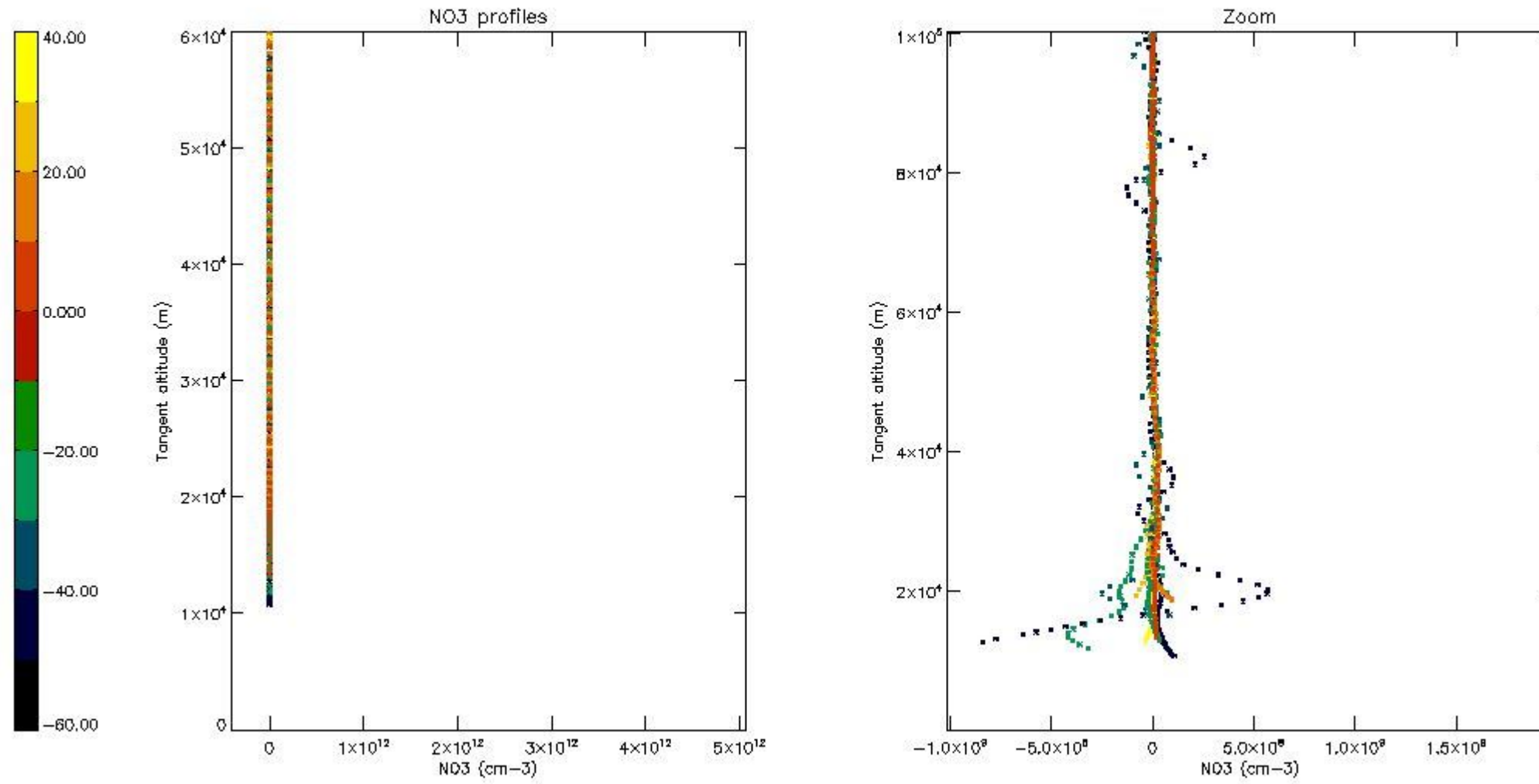
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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	28-OCT-2003 00:00:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-OCT-2003 00:00:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-OCT-2003 00:00:18

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

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Stop time of products	29-10-2003 (29OCT2003 00:00:00)
Store outputs in DB	Yes
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2. Summary of processed GOM_NL__2P products.

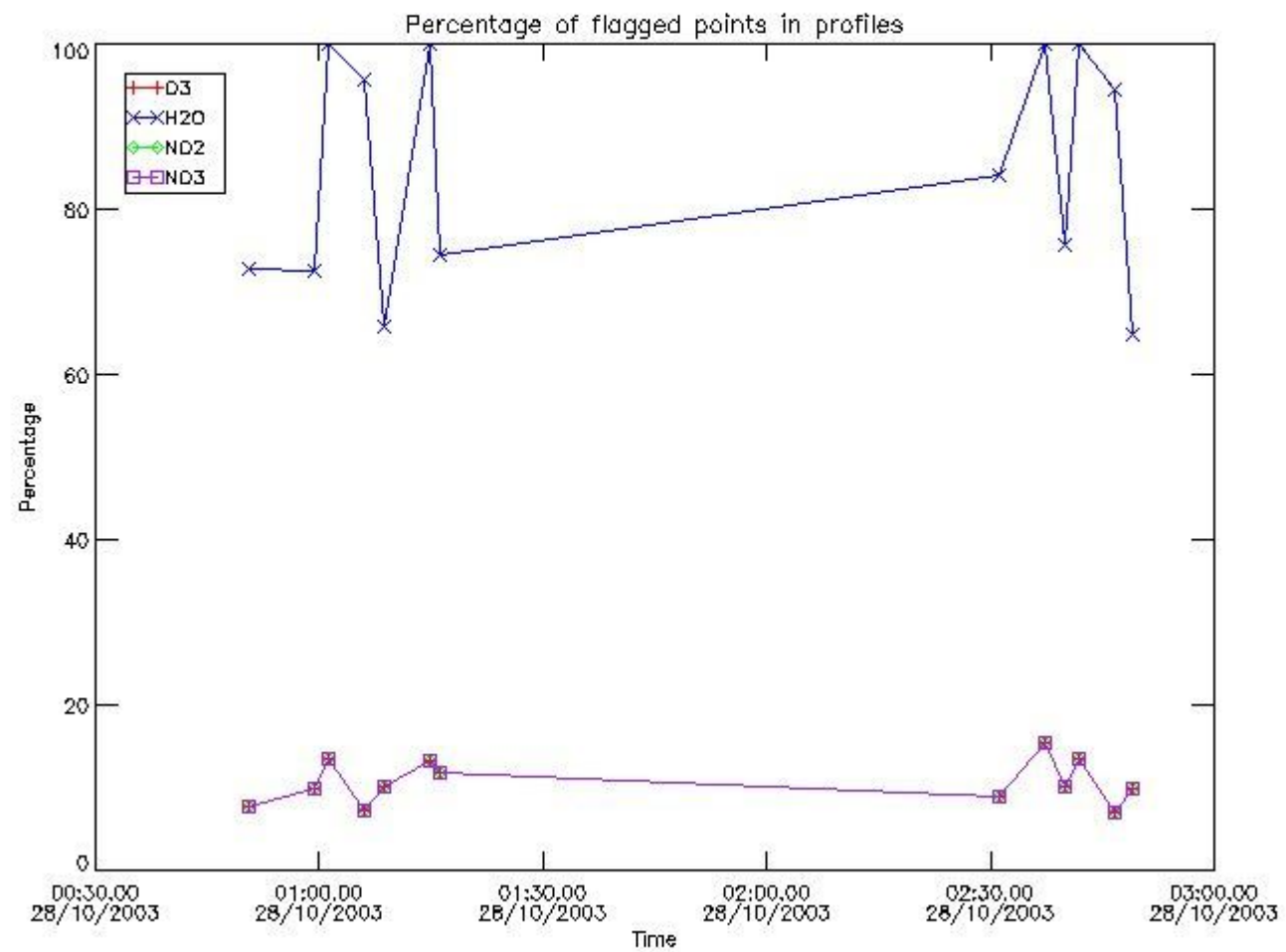
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20031028_000018_000000372021_00102_08673_7399.N1	28-OCT-2003 00:00:18	Bright	37.000	58	21Alp And	2.0730	11000.	74	8673	No
2	GOM_NL__2PRFIN20031028_000203_000000392021_00102_08673_7400.N1	28-OCT-2003 00:02:03	Bright	39.000	53	43Bet And	2.0480	3300.0	78	8673	No
3	GOM_NL__2PRFIN20031028_000446_000000442021_00102_08673_7401.N1	28-OCT-2003 00:04:46	Bright	43.500	73	57Gam1And	2.2600	13100.	87	8673	No
4	GOM_NL__2PRFIN20031028_000752_000000382021_00102_08673_7402.N1	28-OCT-2003 00:07:52	Bright	37.500	68	18Alp Cas	2.2250	4500.0	75	8673	No
5	GOM_NL__2PRFIN20031028_000906_000000382021_00102_08673_7403.N1	28-OCT-2003 00:09:06	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	8673	No
6	GOM_NL__2PRFIN20031028_001204_000000382021_00102_08673_7404.N1	28-OCT-2003 00:12:04	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	8673	No
7	GOM_NL__2PRFIN20031028_001707_000000382021_00102_08673_7405.N1	28-OCT-2003 00:17:07	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	8673	No
8	GOM_NL__2PRFIN20031028_002046_000000392021_00102_08673_7406.N1	28-OCT-2003 00:20:46	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	8673	No
9	GOM_NL__2PRFIN20031028_002520_000000412021_00102_08673_7407.N1	28-OCT-2003 00:25:20	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	8673	No
10	GOM_NL__2PRFIN20031028_002643_000000382021_00102_08673_7408.N1	28-OCT-2003 00:26:43	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	8673	No
11	GOM_NL__2PRFIN20031028_003031_000000382021_00102_08673_7409.N1	28-OCT-2003 00:30:31	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	8673	No
12	GOM_NL__2PRFIN20031028_003809_000000722021_00102_08673_7410.N1	28-OCT-2003 00:38:09	Bright	72.000	166	17Eps Leo	2.9800	6000.0	144	8673	No
13	GOM_NL__2PRFIN20031028_004051_000002552021_00102_08673_7411.N1	28-OCT-2003 00:40:51	Twilight	255.00	17	78Bet Gem	1.1610	4500.0	510	8673	No
14	GOM_NL__2PRFIN20031028_005027_000000672021_00102_08673_7412.N1	28-OCT-2003 00:50:27	Dark	66.500	48	30Alp Hya	1.9770	4100.0	133	8673	No
15	GOM_NL__2PRFIN20031028_005927_000000522021_00102_08673_7413.N1	28-OCT-2003 00:59:27	Dark	51.500	65	Lam Vel	2.2040	4400.0	103	8673	No
16	GOM_NL__2PRFIN20031028_010109_000000382021_00103_08674_7388.N1	28-OCT-2003 01:01:09	Dark	38.000	124	The Car	2.7640	30000.	76	8674	No
17	GOM_NL__2PRFIN20031028_010605_000000712021_00103_08674_7389.N1	28-OCT-2003 01:06:05	Dark	70.500	88	31Eta CMa	2.4480	20000.	141	8674	No
18	GOM_NL__2PRFIN20031028_010834_000000502021_00103_08674_7390.N1	28-OCT-2003 01:08:34	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	8674	No
19	GOM_NL__2PRFIN20031028_011447_000000392021_00103_08674_7391.N1	28-OCT-2003 01:14:47	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	8674	No
20	GOM_NL__2PRFIN20031028_011611_000000442021_00103_08674_7392.N1	28-OCT-2003 01:16:11	Dark	43.500	9	Alp Eri	0.45300	24000.	87	8674	No
21	GOM_NL__2PRFIN20031028_011919_000000432021_00103_08674_7393.N1	28-OCT-2003 01:19:19	Straylight	42.500	157	The1Eri	2.9060	9300.0	85	8674	No
22	GOM_NL__2PRFIN20031028_012100_000000422021_00103_08674_7394.N1	28-OCT-2003 01:21:00	Straylight	42.000	84	Alp Phe	2.3970	4500.0	84	8674	No
23	GOM_NL__2PRFIN20031028_012733_000000492021_00103_08674_7395.N1	28-OCT-2003 01:27:33	Straylight	49.000	52	16Bet Cet	2.0370	4500.0	98	8674	No
24	GOM_NL__2PRFIN20031028_013433_000000682021_00103_08674_7396.N1	28-OCT-2003 01:34:33	Bright	67.500	94	92Alp Cet	2.5260	3100.0	135	8674	No
25	GOM_NL__2PRFIN20031028_013702_000000362021_00103_08674_7397.N1	28-OCT-2003 01:37:02	Bright	36.000	140	88Gam Peg	2.8340	26000.	72	8674	No
26	GOM_NL__2PRFIN20031028_013846_000000422021_00103_08674_7398.N1	28-OCT-2003 01:38:46	Bright	42.000	105	6Bet Ari	2.6450	8900.0	84	8674	No
27	GOM_NL__2PRFIN20031028_014054_000000372021_00103_08674_7399.N1	28-OCT-2003 01:40:54	Bright	36.500	58	21Alp And	2.0730	11000.	73	8674	No
28	GOM_NL__2PRFIN20031028_014239_000000402021_00103_08674_7400.N1	28-OCT-2003 01:42:39	Bright	40.000	53	43Bet And	2.0480	3300.0	80	8674	No
29	GOM_NL__2PRFIN20031028_014521_000000422021_00103_08674_7401.N1	28-OCT-2003 01:45:21	Bright	42.000	73	57Gam1And	2.2600	13100.	84	8674	No
30	GOM_NL__2PRFIN20031028_014828_000000392021_00103_08674_7402.N1	28-OCT-2003 01:48:28	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	8674	No
31	GOM_NL__2PRFIN20031028_014942_000000372021_00103_08674_7403.N1	28-OCT-2003 01:49:42	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	8674	No
32	GOM_NL__2PRFIN20031028_015240_000000382021_00103_08674_7404.N1	28-OCT-2003 01:52:40	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	8674	No
33	GOM_NL__2PRFIN20031028_015744_000000362021_00103_08674_7405.N1	28-OCT-2003 01:57:44	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	8674	No
34	GOM_NL__2PRFIN20031028_020122_000000392021_00103_08674_7406.N1	28-OCT-2003 02:01:22	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	8674	No
35	GOM_NL__2PRFIN20031028_020556_000000382021_00103_08674_7407.N1	28-OCT-2003 02:05:56	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	8674	No
36	GOM_NL__2PRFIN20031028_020719_000000372021_00103_08674_7408.N1	28-OCT-2003 02:07:19	Bright	36.500	32	77Eps UMa	1.7630	11000.	73	8674	No
37	GOM_NL__2PRFIN20031028_021107_000000392021_00103_08674_7409.N1	28-OCT-2003 02:11:07	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	8674	No
38	GOM_NL__2PRFIN20031028_021845_000000532021_00103_08674_7410.N1	28-OCT-2003 02:18:45	Bright	52.500	166	17Eps Leo	2.9800	6000.0	105	8674	No
39	GOM_NL__2PRFIN20031028_022129_000002552021_00103_08674_7411.N1	28-OCT-2003 02:21:29	Twilight	255.00	17	78Bet Gem	1.1610	4500.0	510	8674	No
40	GOM_NL__2PRFIN20031028_023104_000000642021_00103_08674_7412.N1	28-OCT-2003 02:31:04	Dark	63.500	48	30Alp Hya	1.9770	4100.0	127	8674	No
41	GOM_NL__2PRFIN20031028_023716_000000402021_00103_08674_7413.N1	28-OCT-2003 02:37:16	Dark	39.500	99	Del Cen	2.5750	26000.	79	8674	No
42	GOM_NL__2PRFIN20031028_024004_000000502021_00103_08674_7414.N1	28-OCT-2003 02:40:04	Dark	50.000	65	Lam Vel	2.2040	4400.0	100	8674	No

43	GOM_NL__2PRFIN20031028_024146_000000382021_00104_08675_7408.N1	28-OCT-2003 02:41:46	Dark	37.500	124	The Car	2.7640	30000.	75	8675	No
44	GOM_NL__2PRFIN20031028_024643_000000732021_00104_08675_7409.N1	28-OCT-2003 02:46:43	Dark	73.000	88	31Eta CMa	2.4480	20000.	146	8675	No
45	GOM_NL__2PRFIN20031028_024911_000000512021_00104_08675_7410.N1	28-OCT-2003 02:49:11	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	8675	No

3. Quality information per product

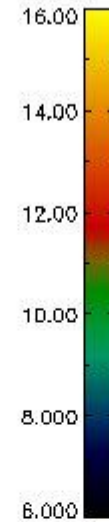
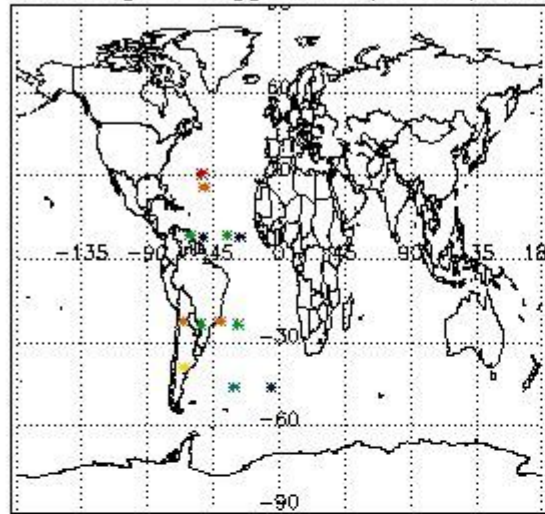
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

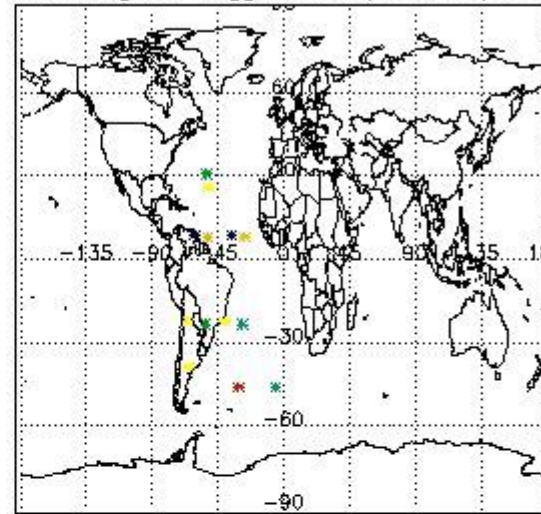


3.2 Plot quality information per product (world map)

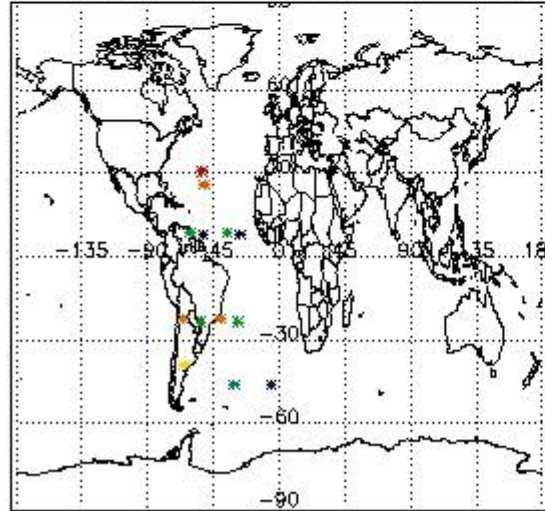
Percentage of flagged data per O3 profile



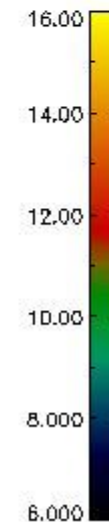
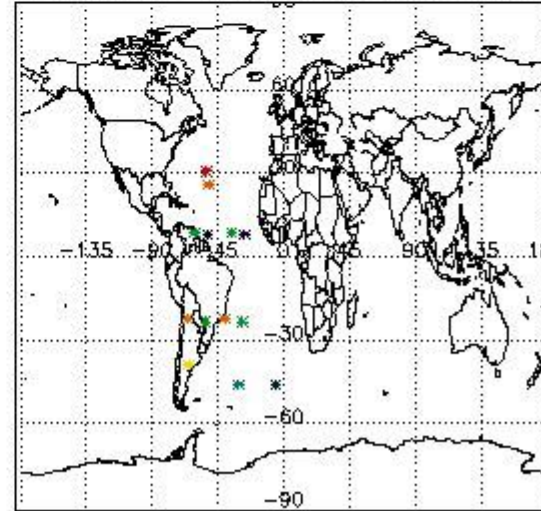
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

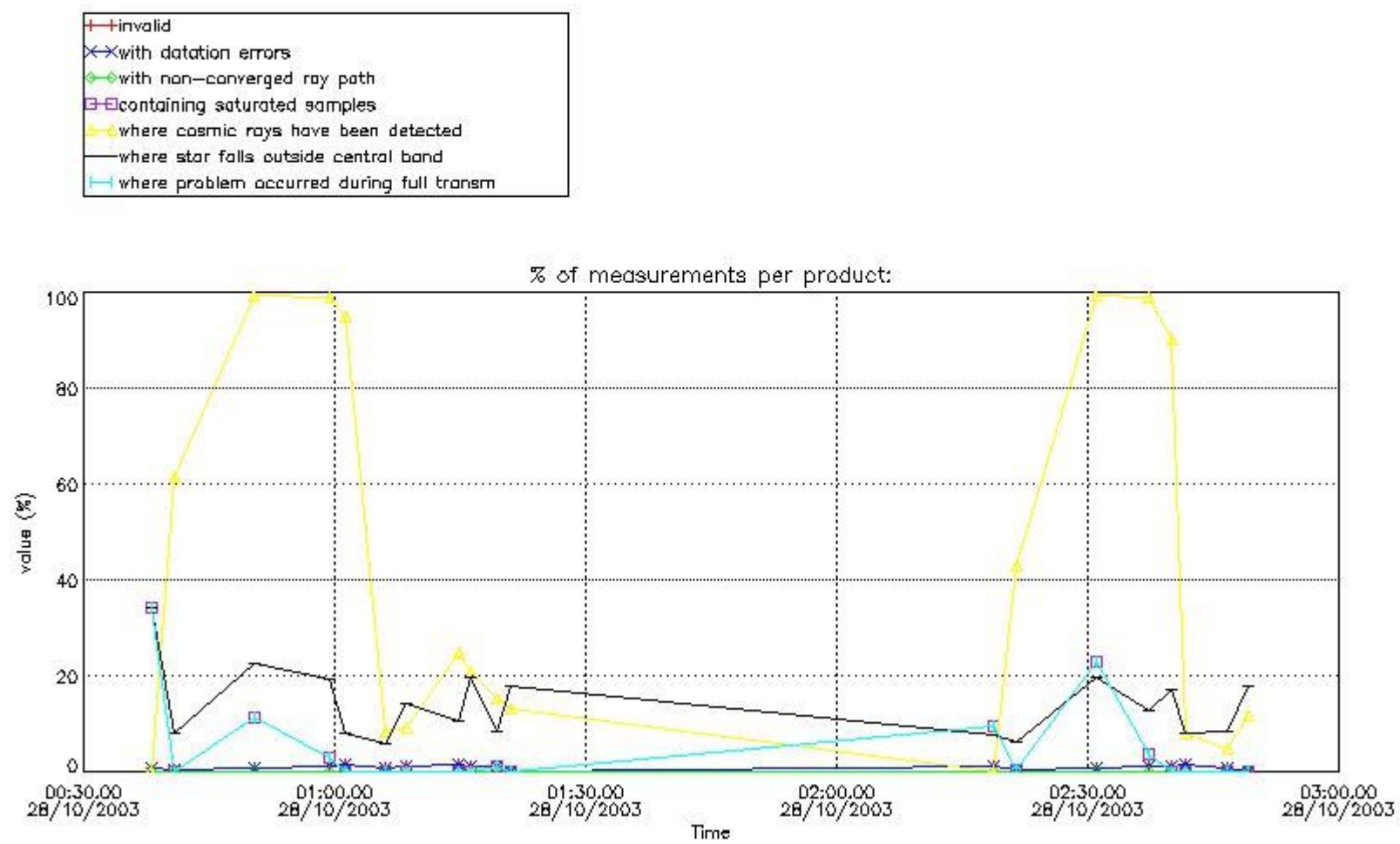


4. Level 1 quality information per product

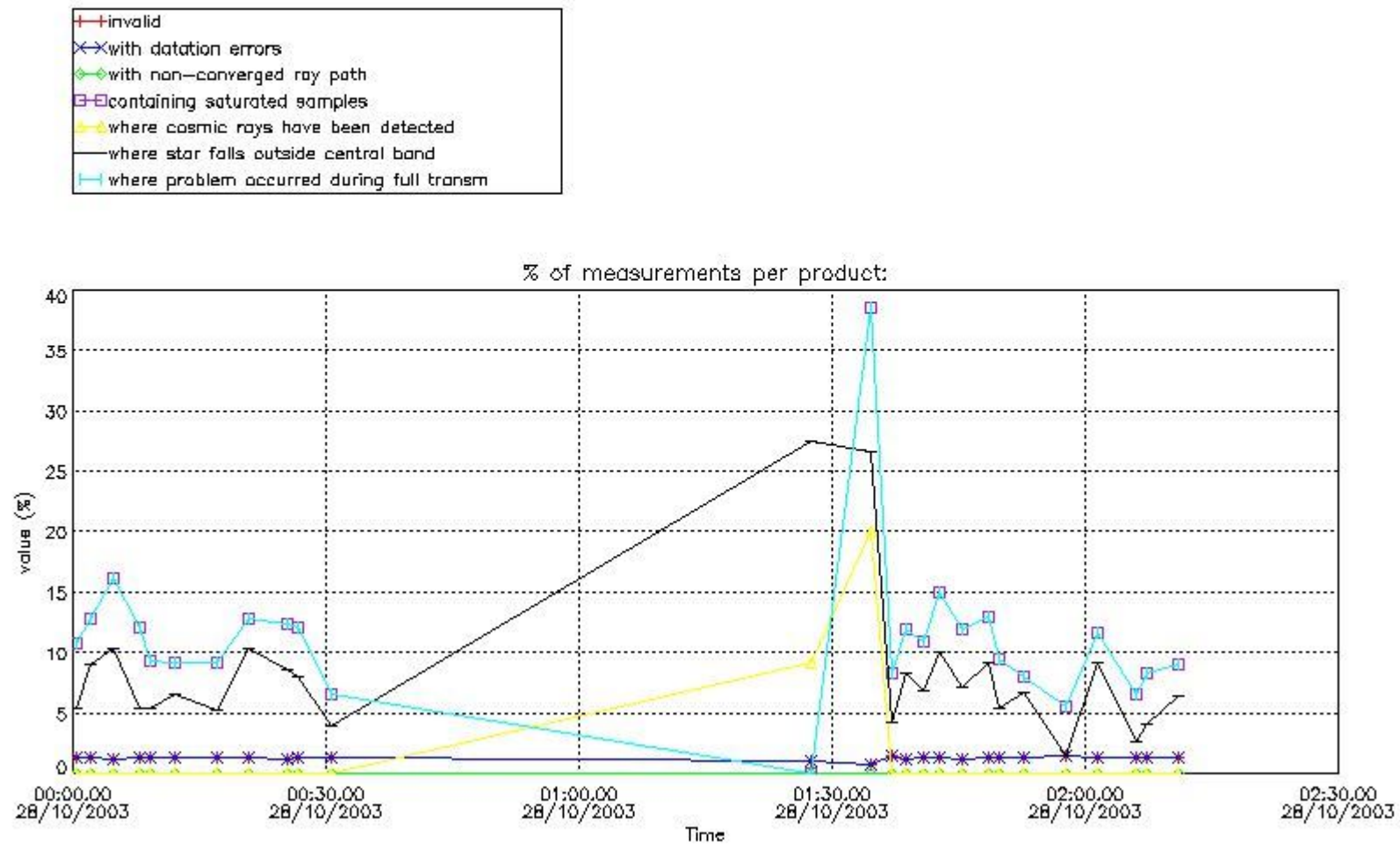
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



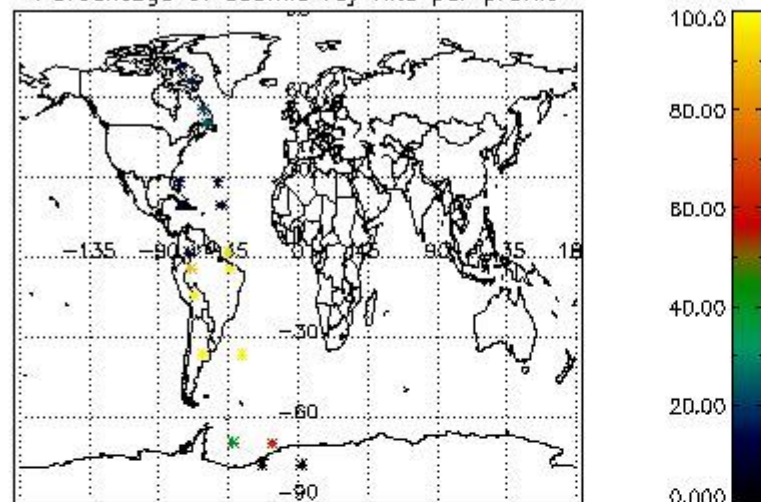
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



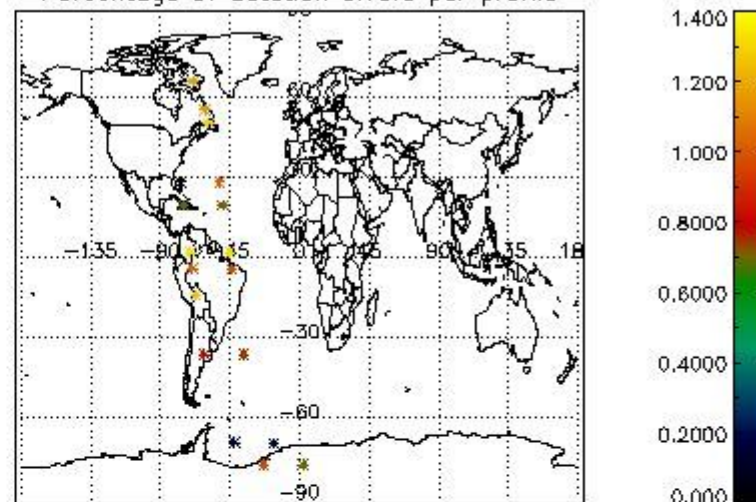
4.2 Plot quality information per product coming from level 1b processing (world map)

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

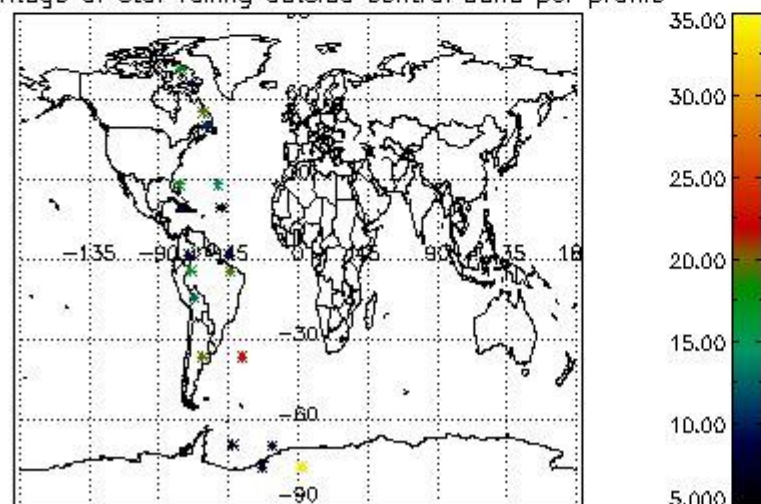
Percentage of cosmic ray hits per profile



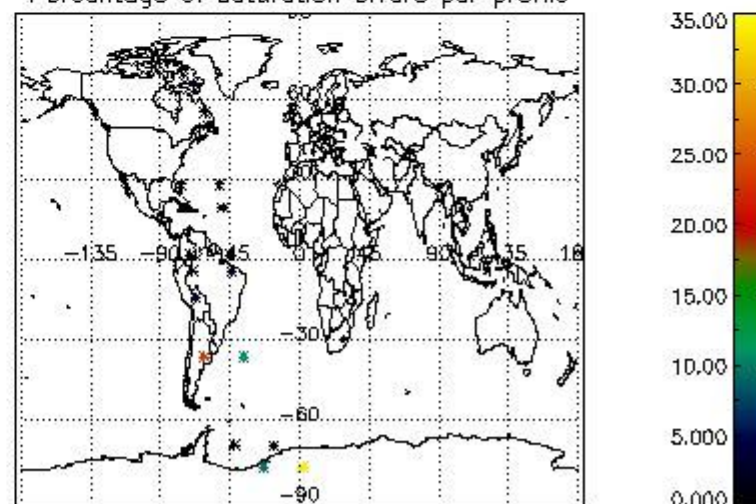
Percentage of datation errors per profile



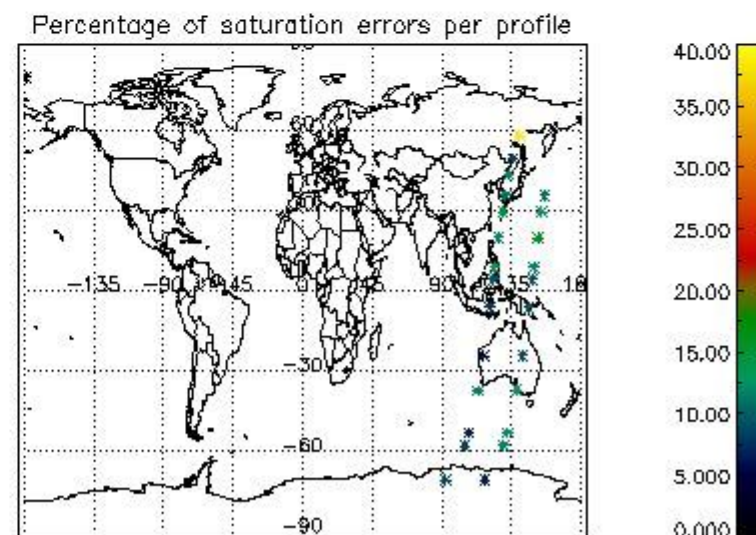
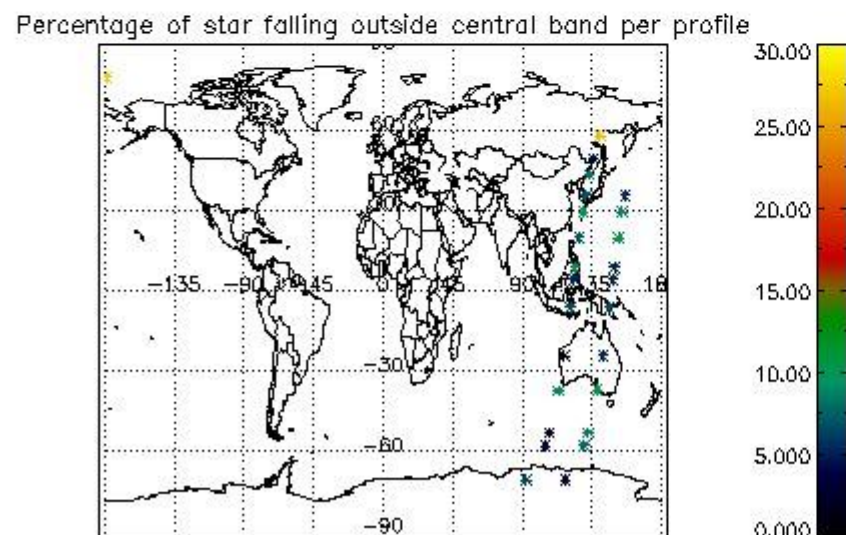
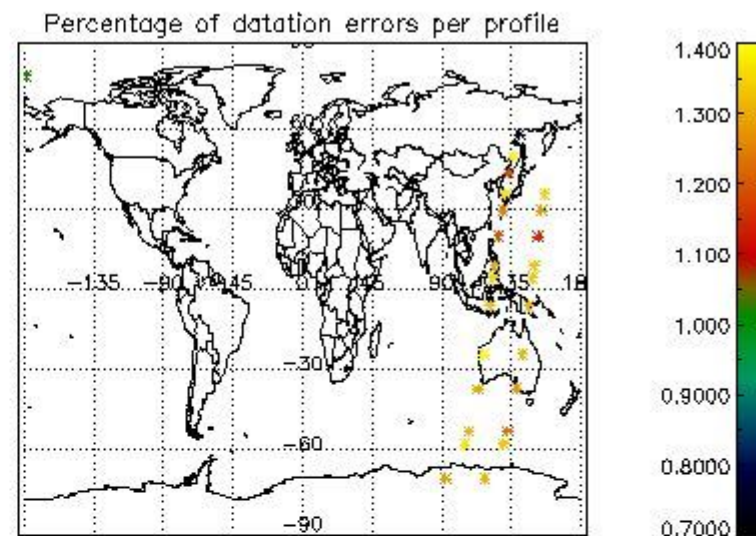
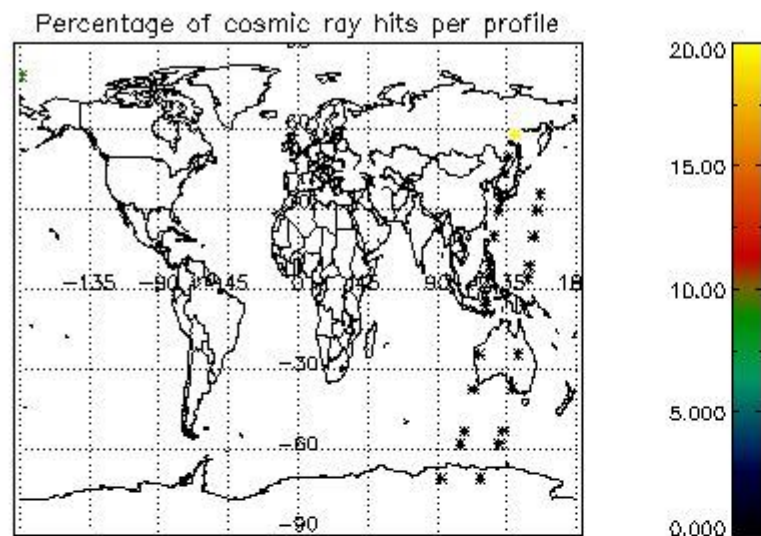
Percentage of star falling outside central band per profile



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

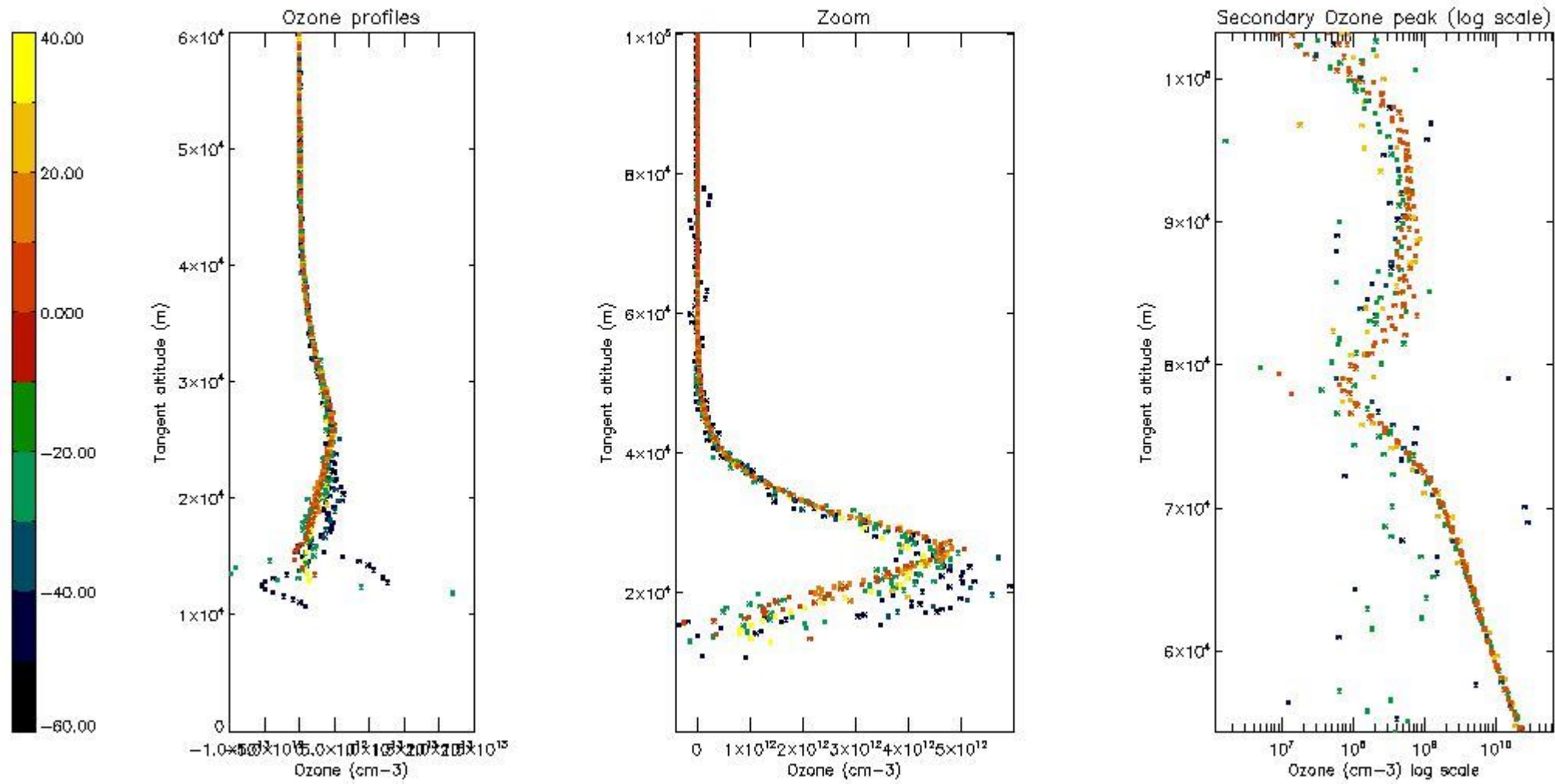
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	16

STD < 10	13
STD < 5	10

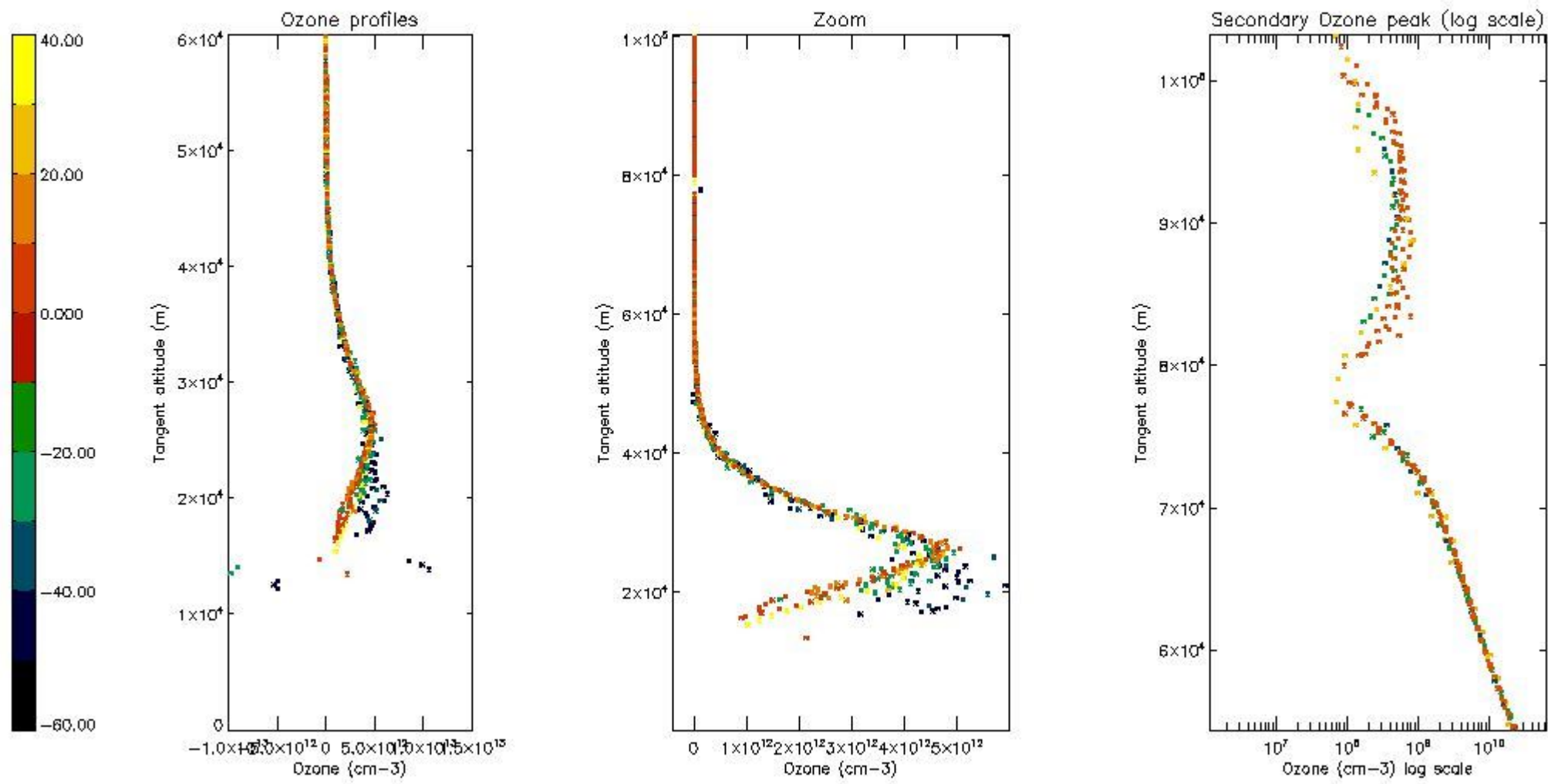
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



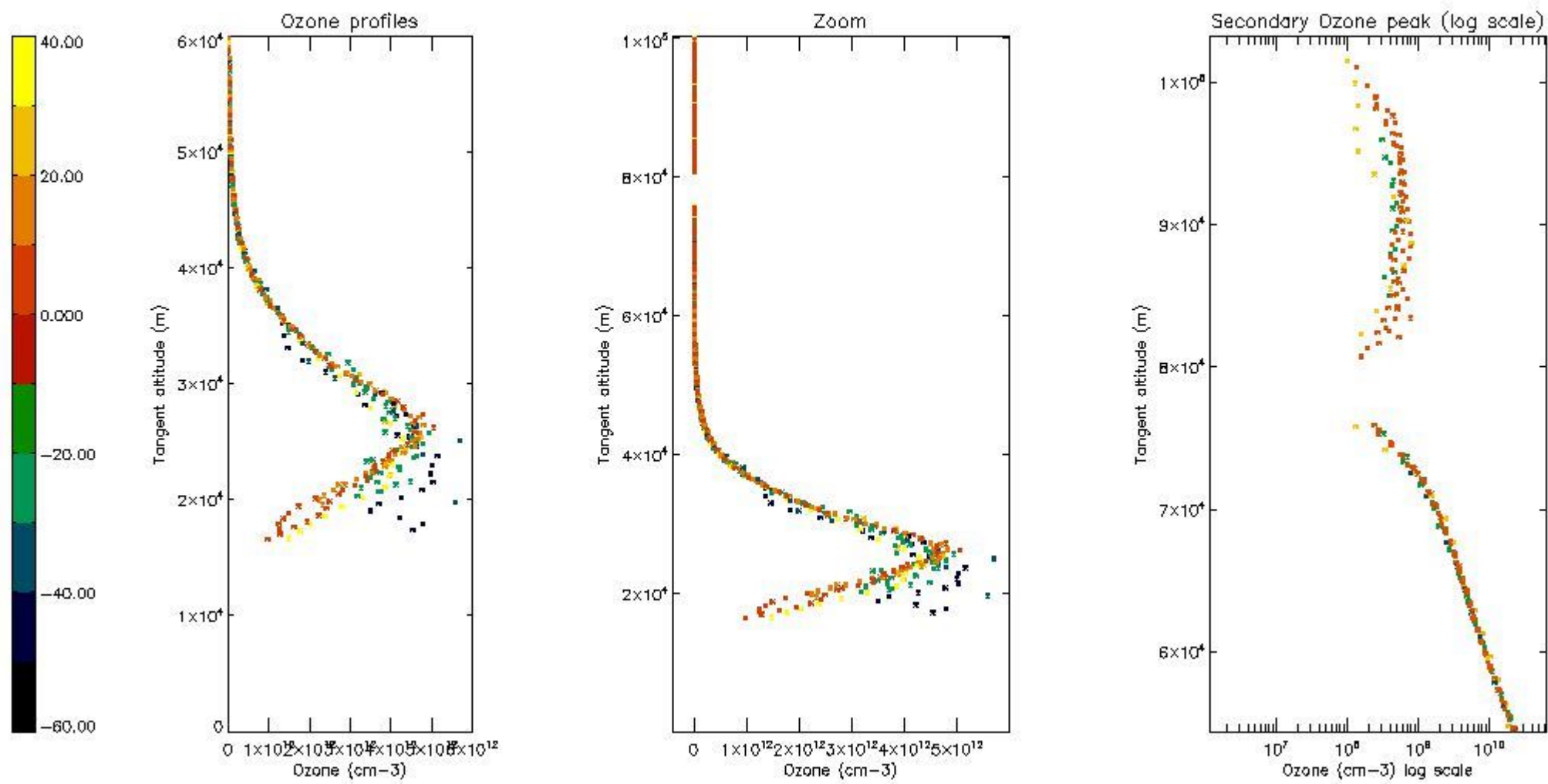
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



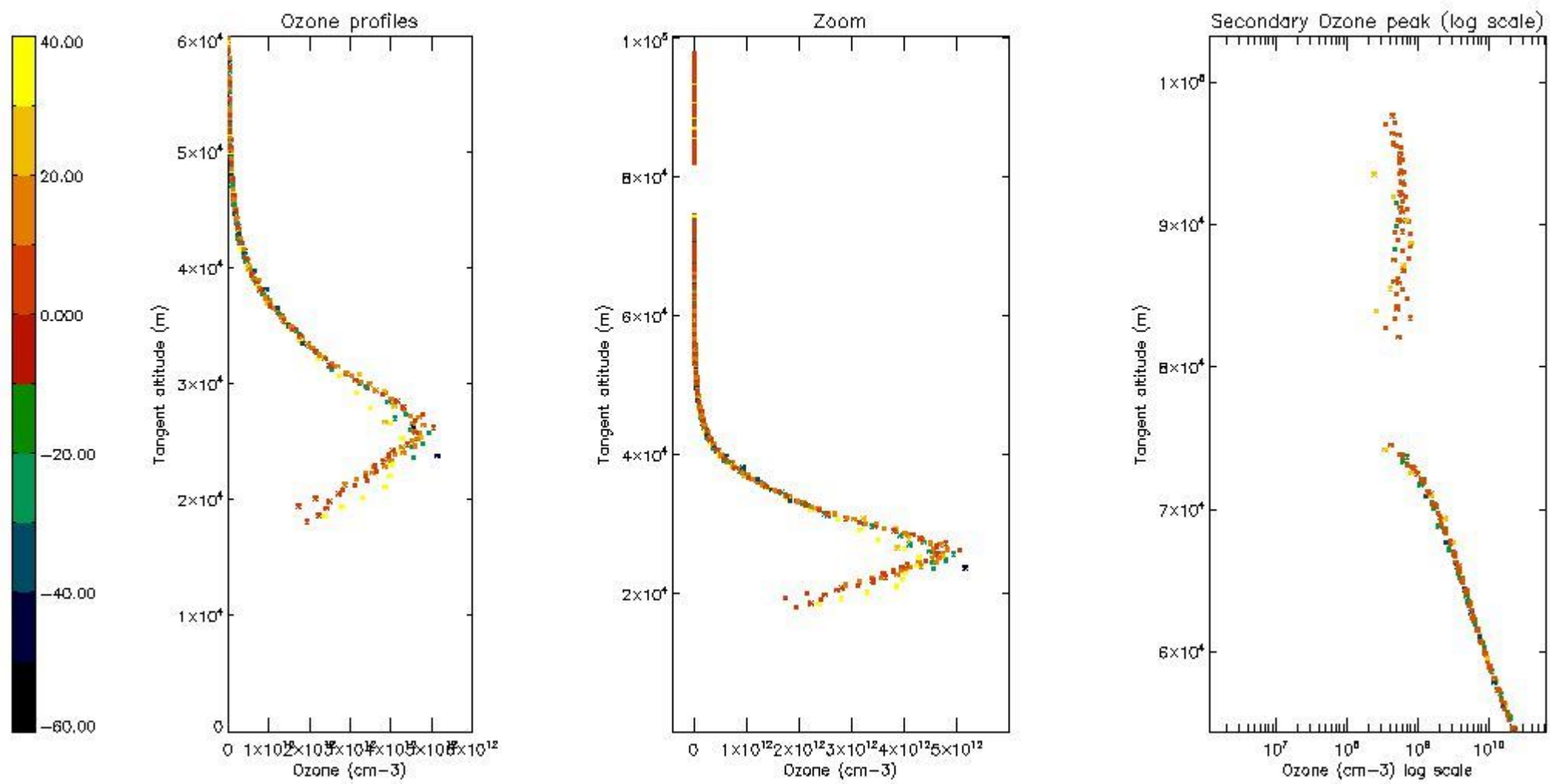
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



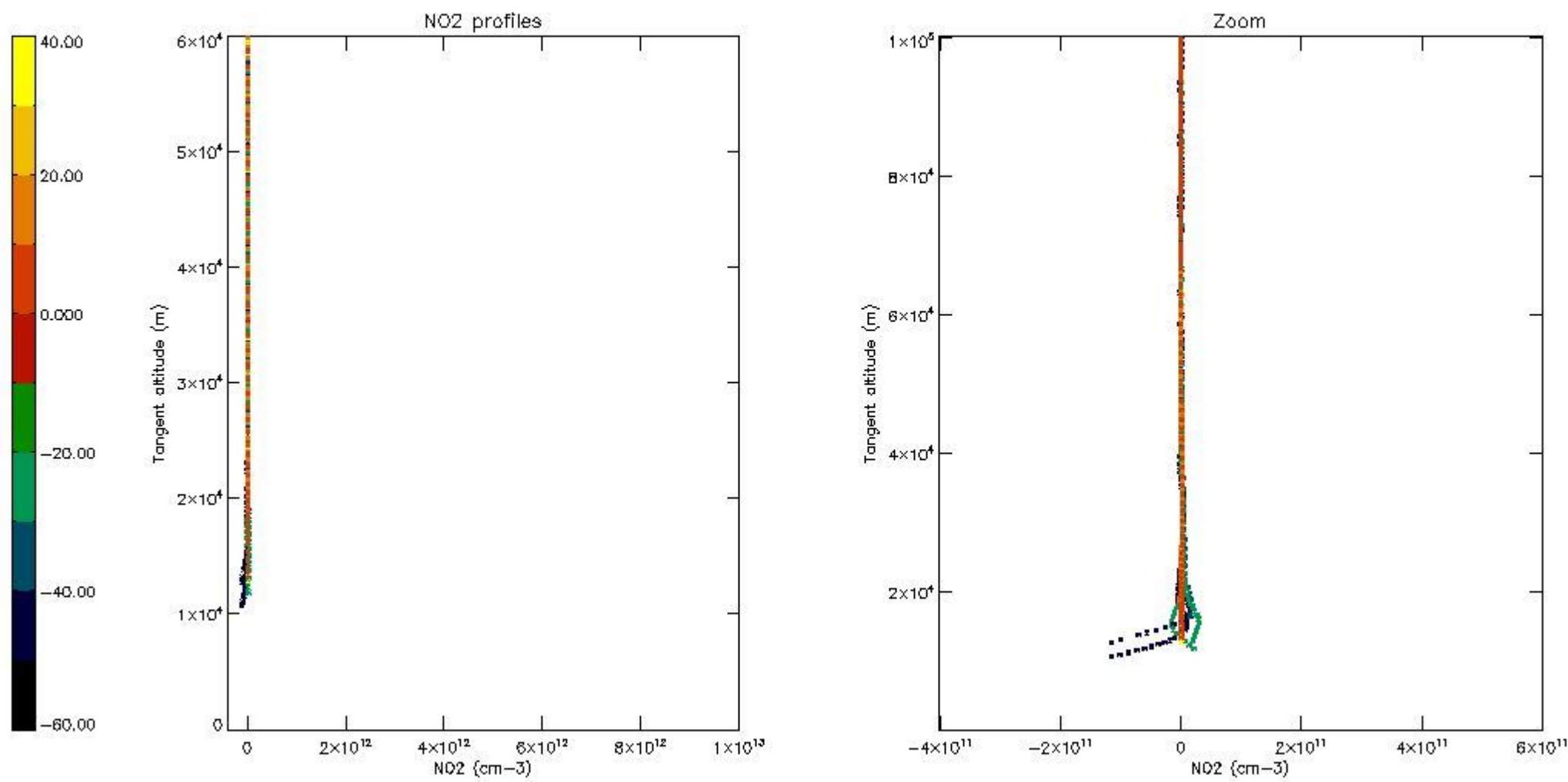
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



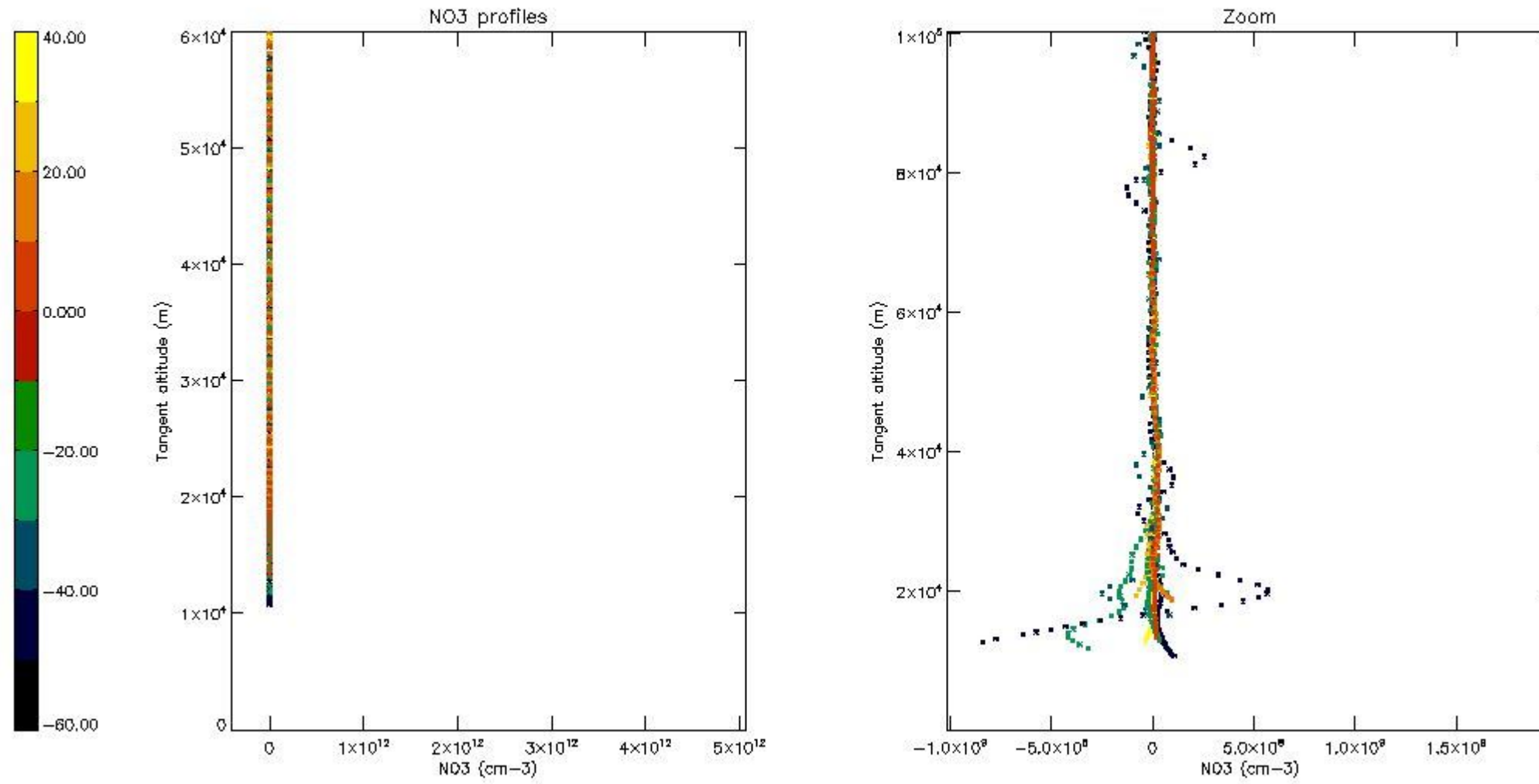
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

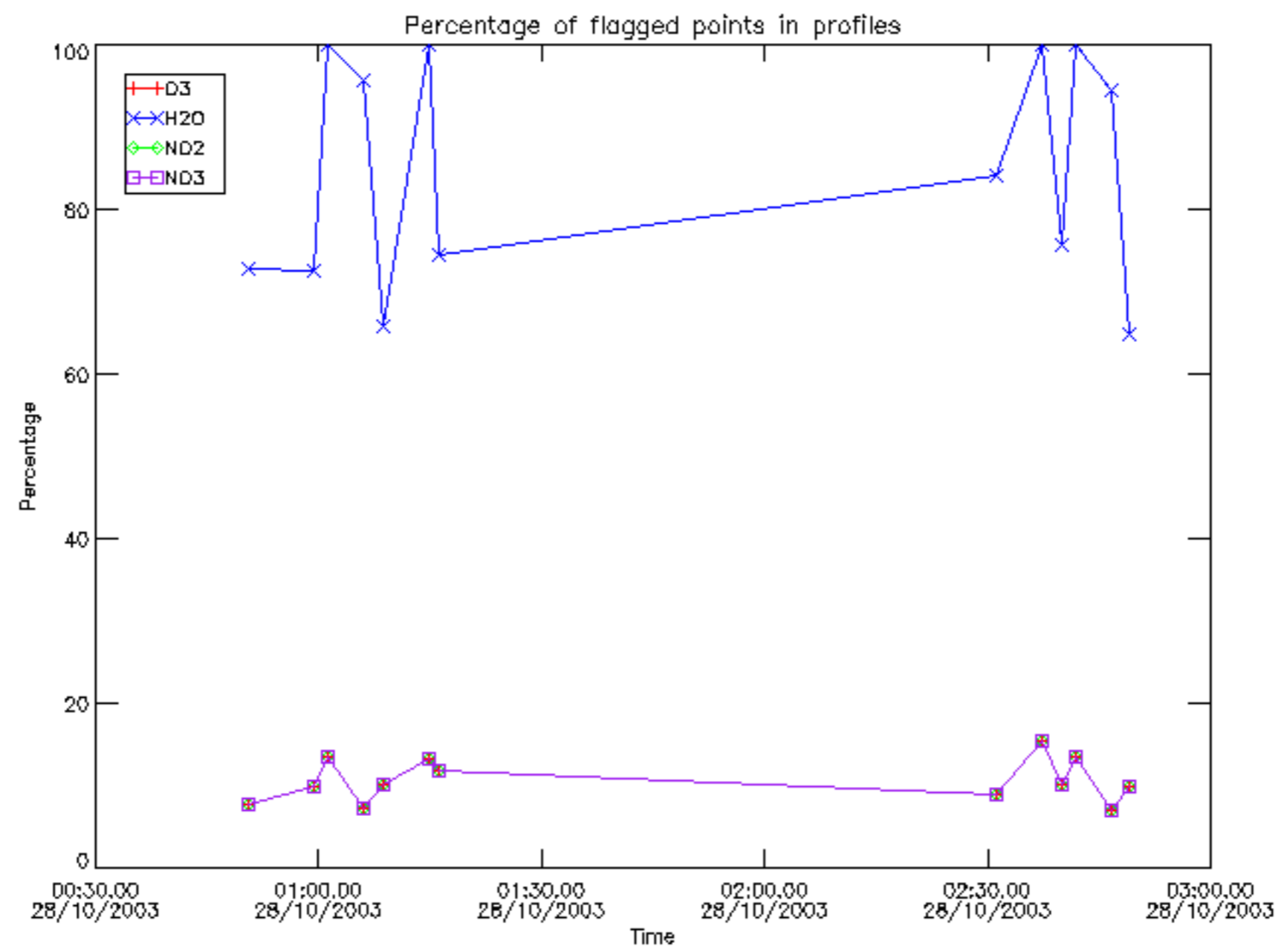
The colorbar represents the latitude.



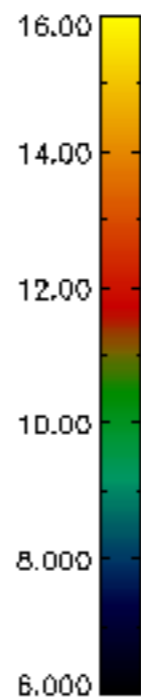
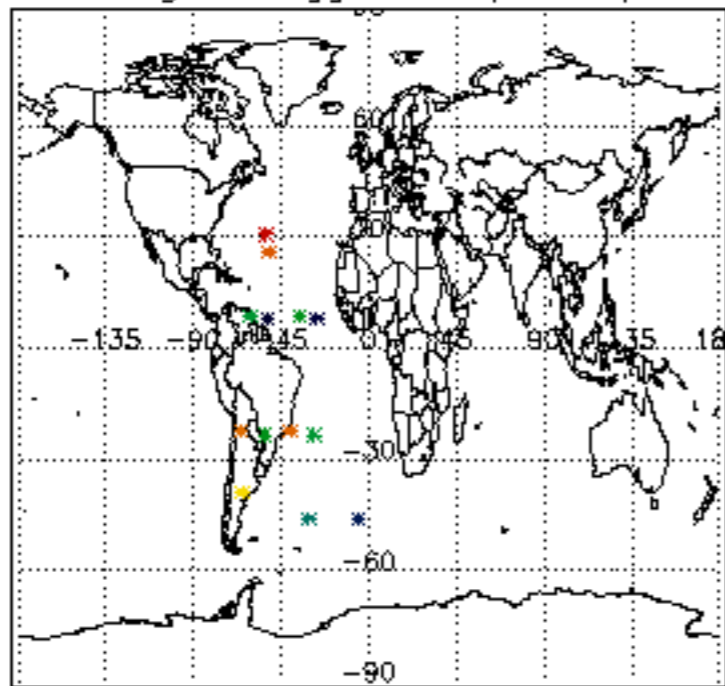
6. Auxiliary Data Files used for the production reported in section 2

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.

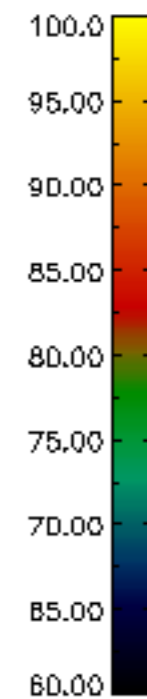
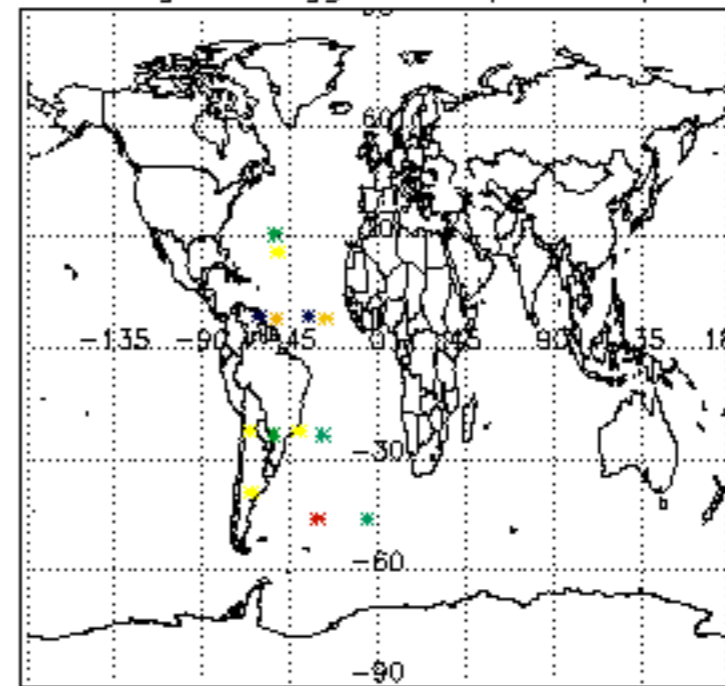
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	28-OCT-2003 00:00:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-OCT-2003 00:00:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-OCT-2003 00:00:18



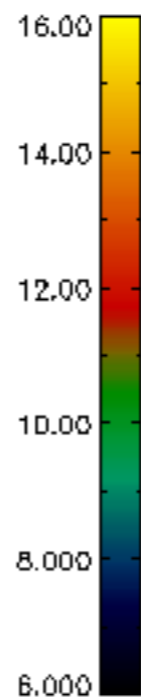
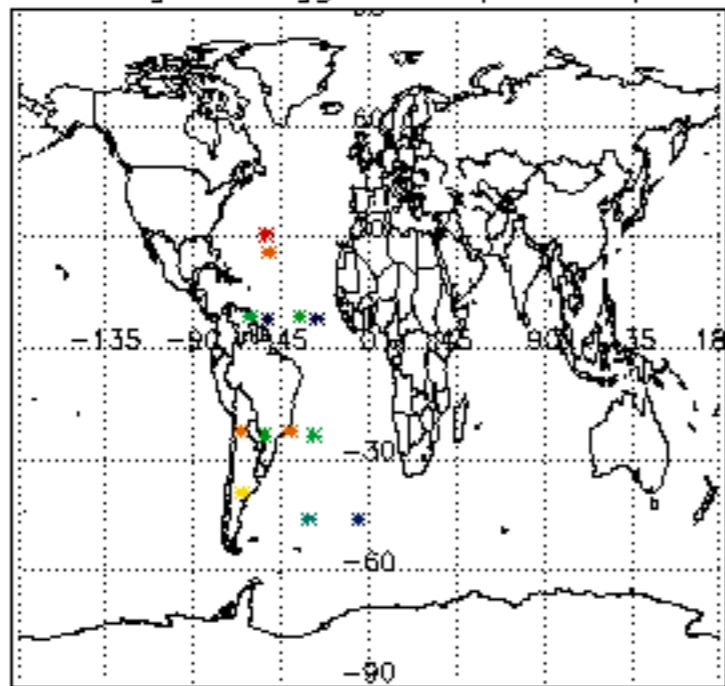
Percentage of flagged data per D3 profile



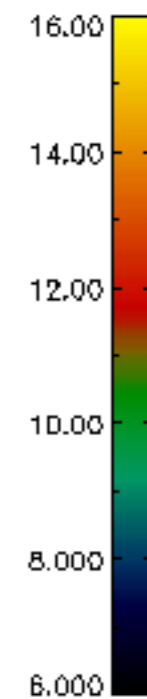
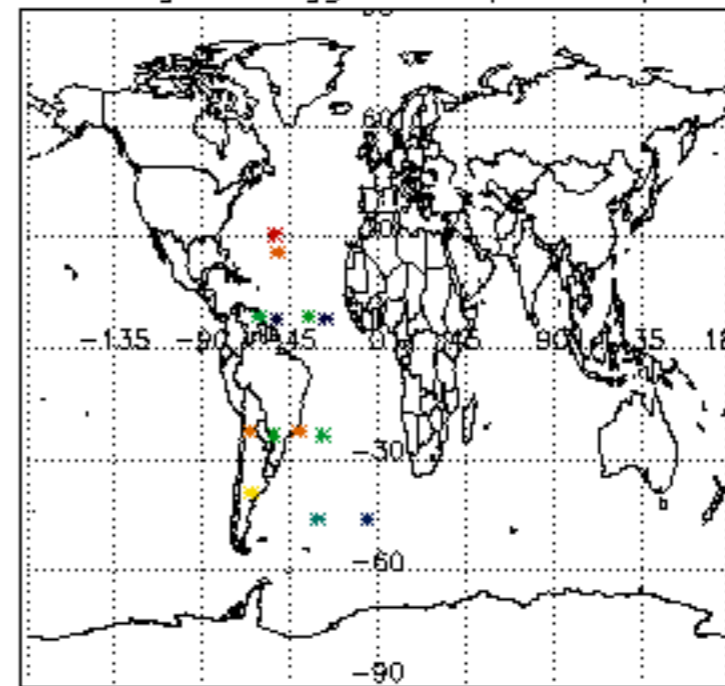
Percentage of flagged data per H2O profile

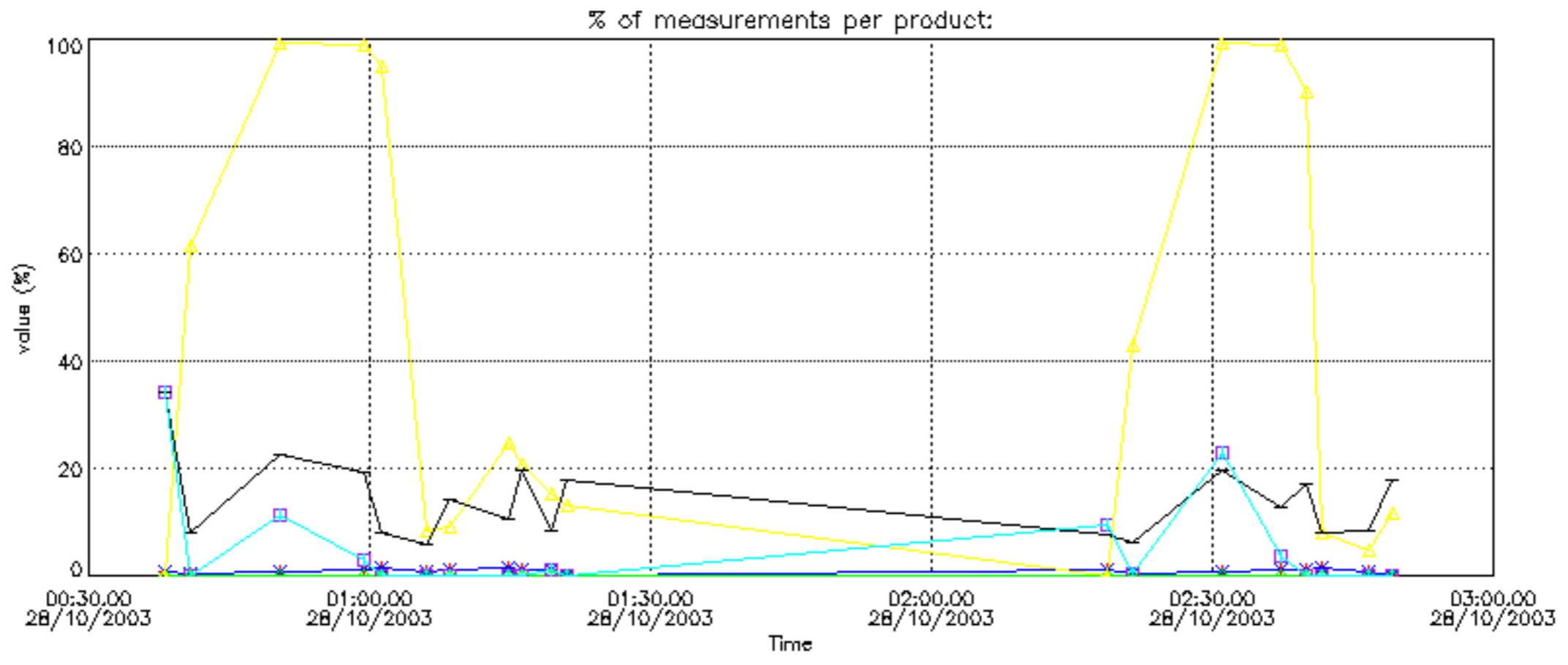


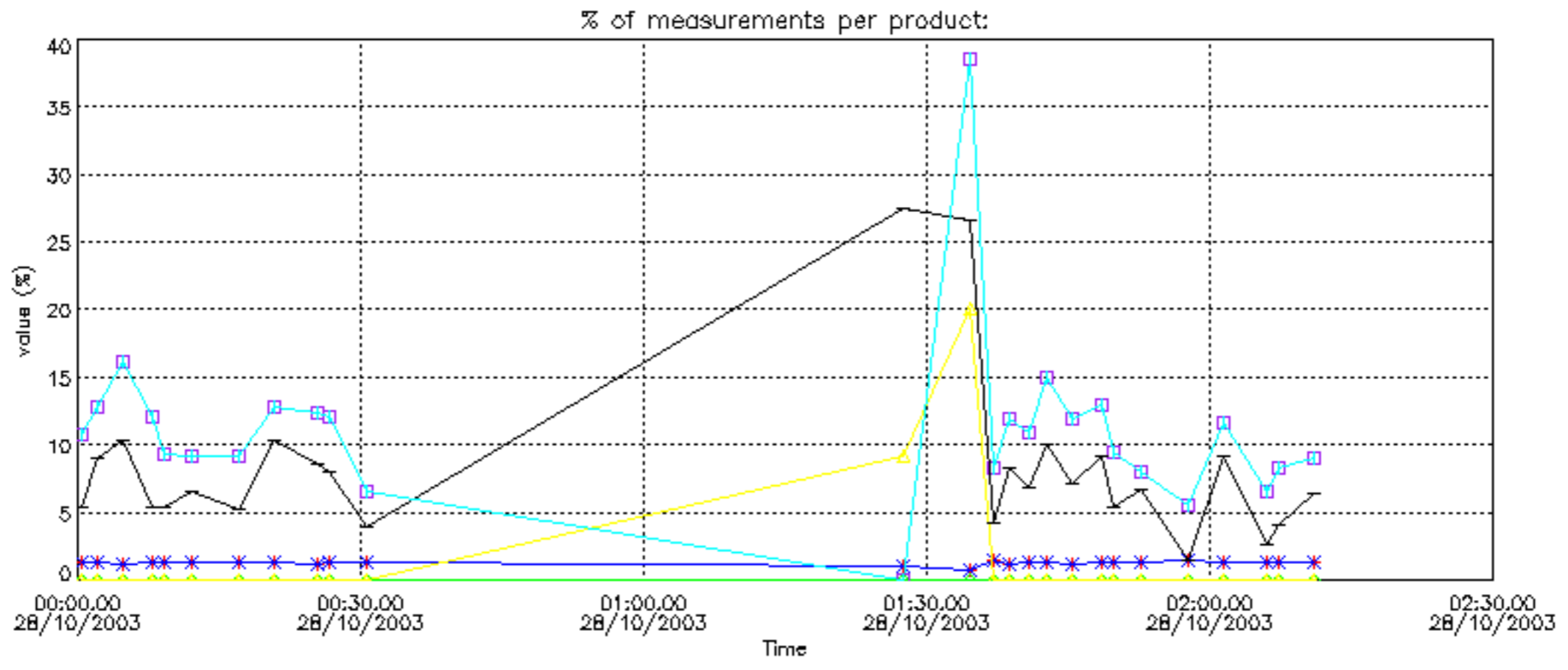
Percentage of flagged data per NO2 profile



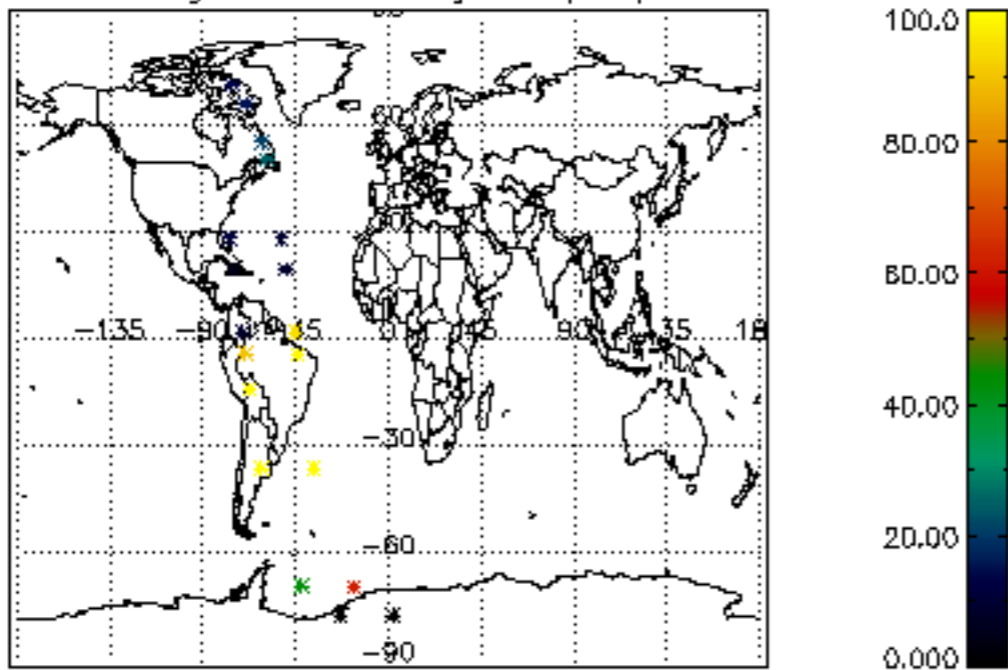
Percentage of flagged data per NO3 profile



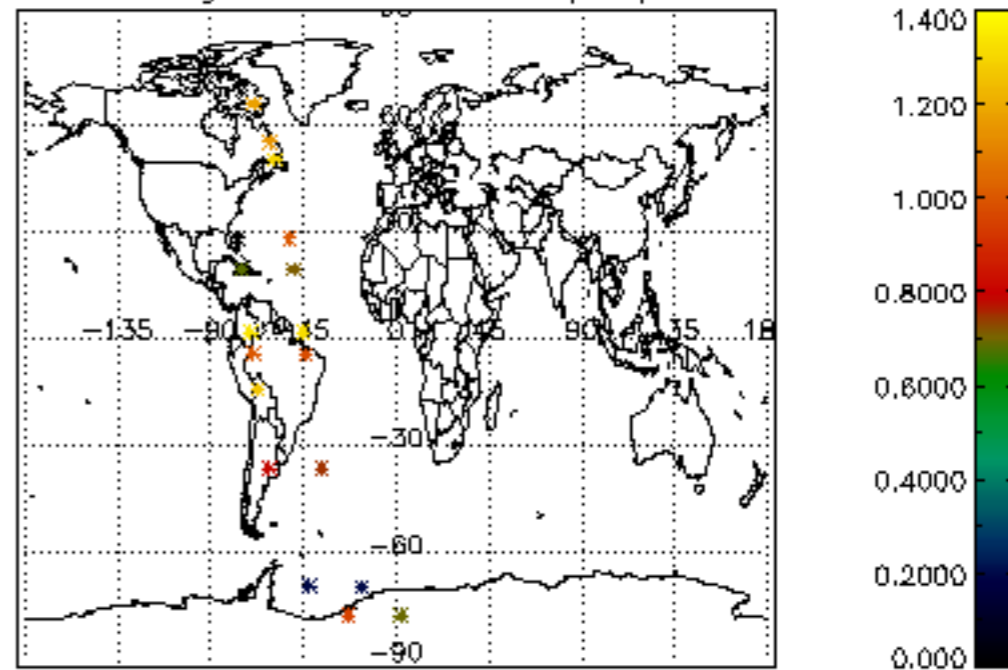




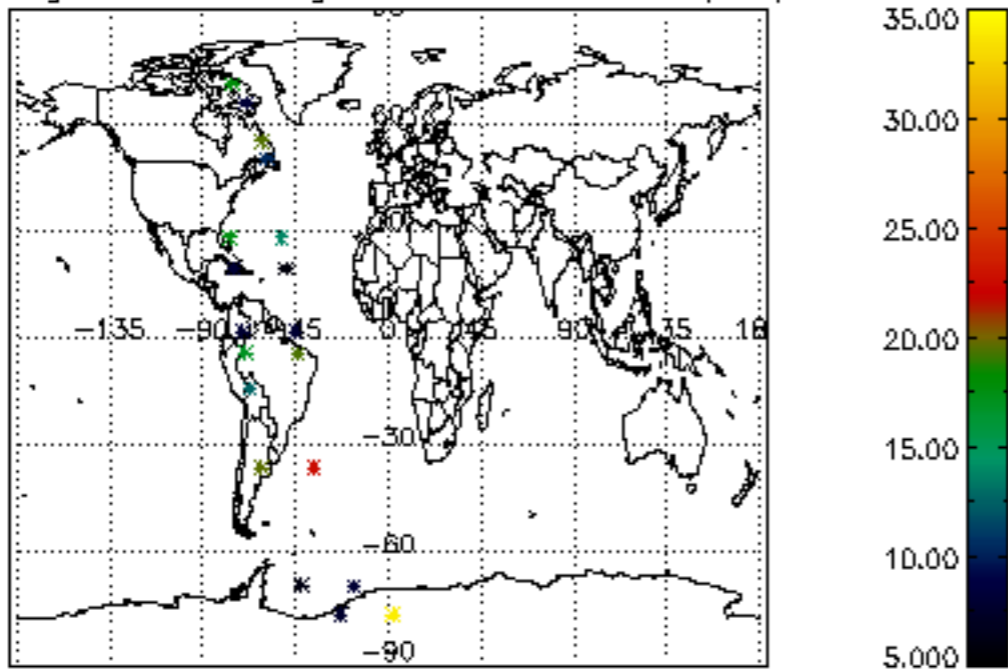
Percentage of cosmic ray hits per profile



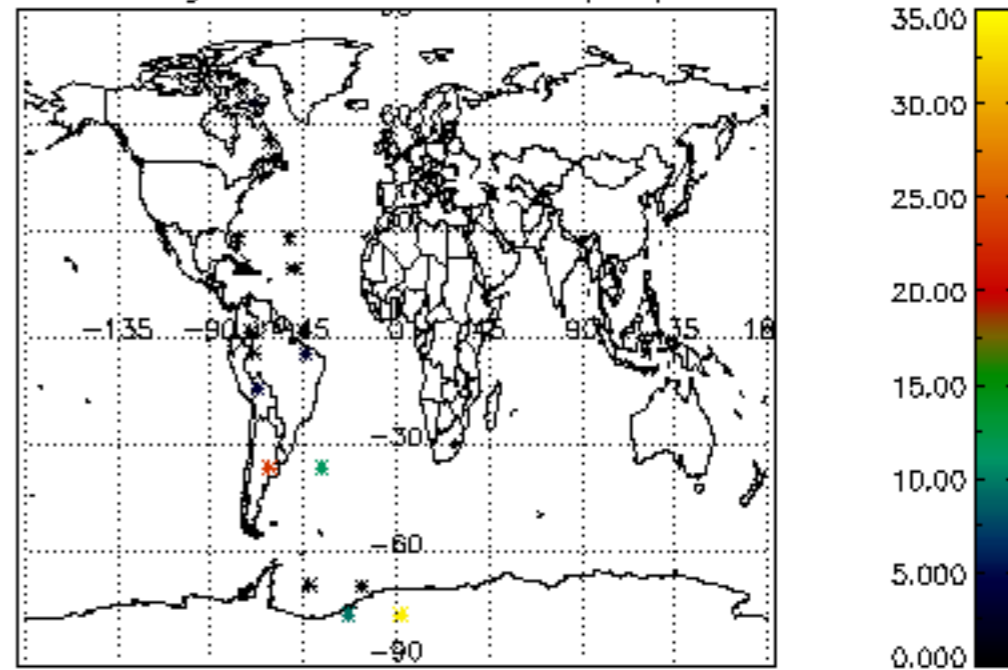
Percentage of datation errors per profile



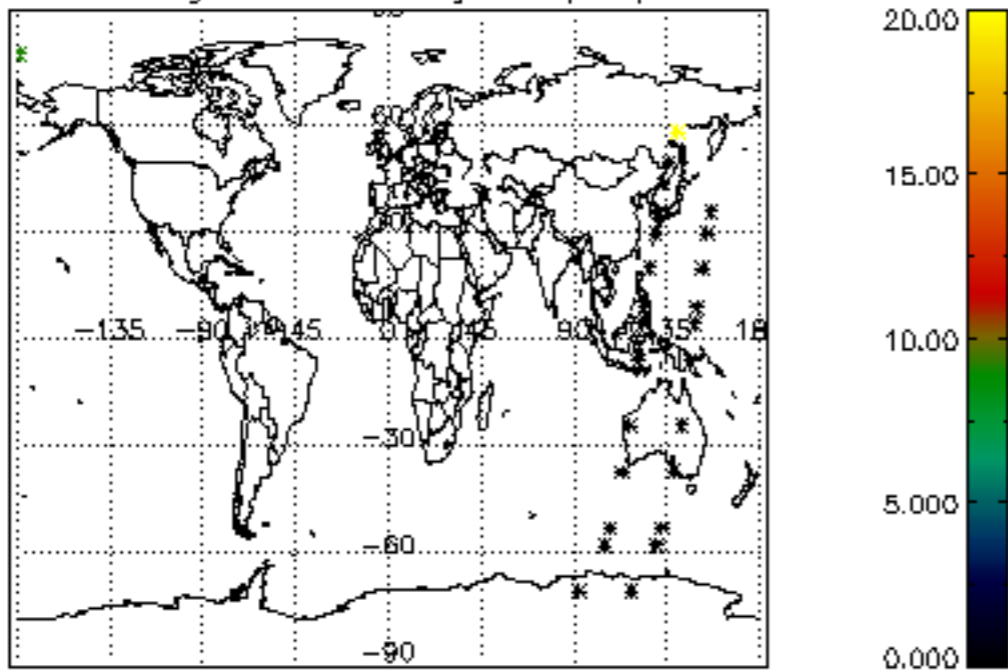
Percentage of star falling outside central band per profile



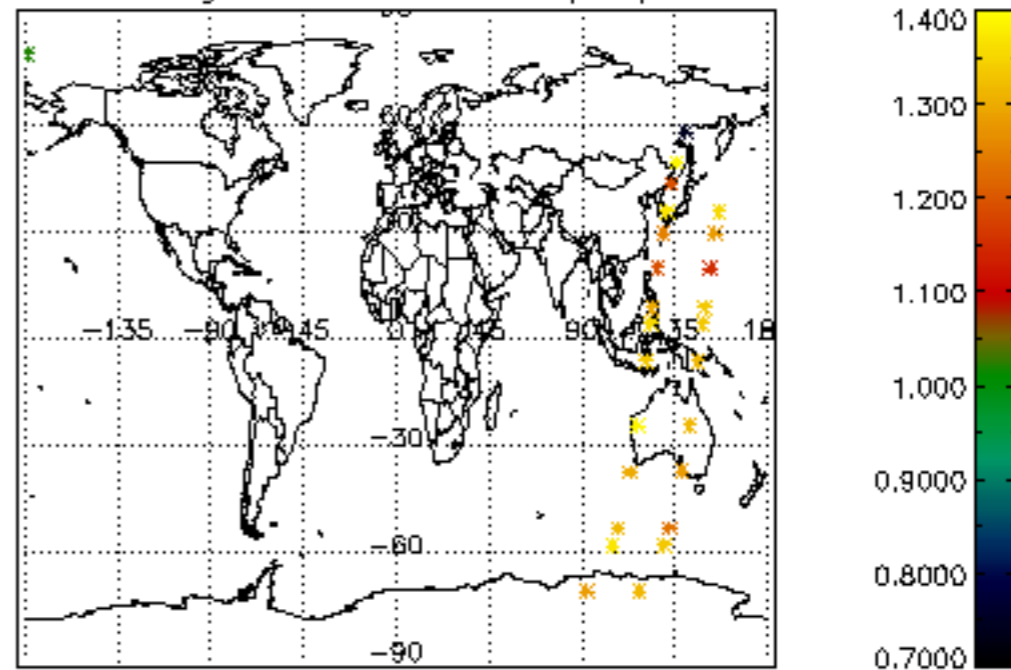
Percentage of saturation errors per profile



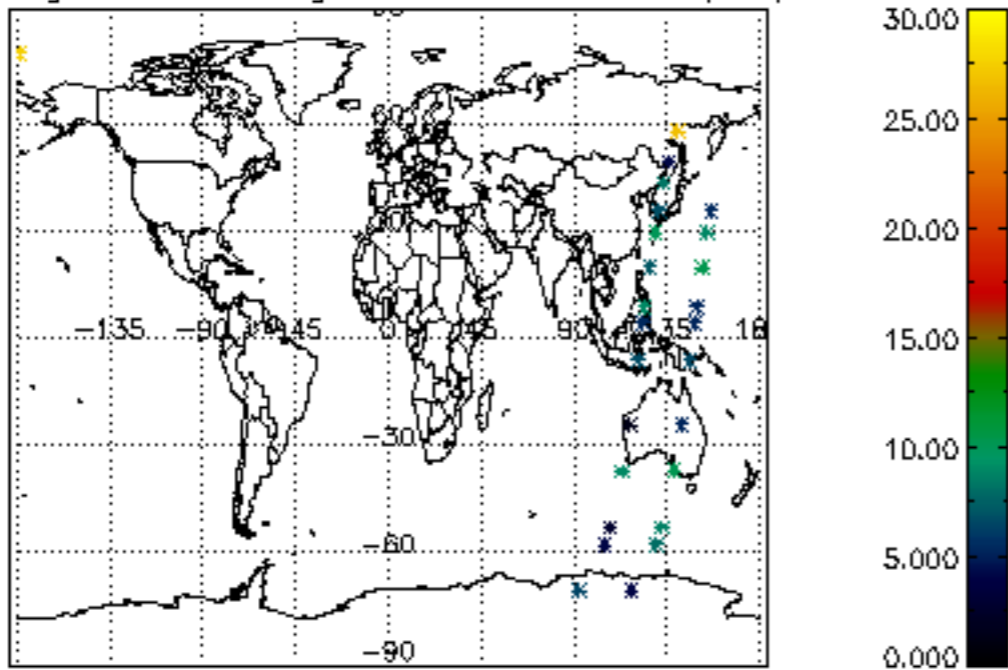
Percentage of cosmic ray hits per profile



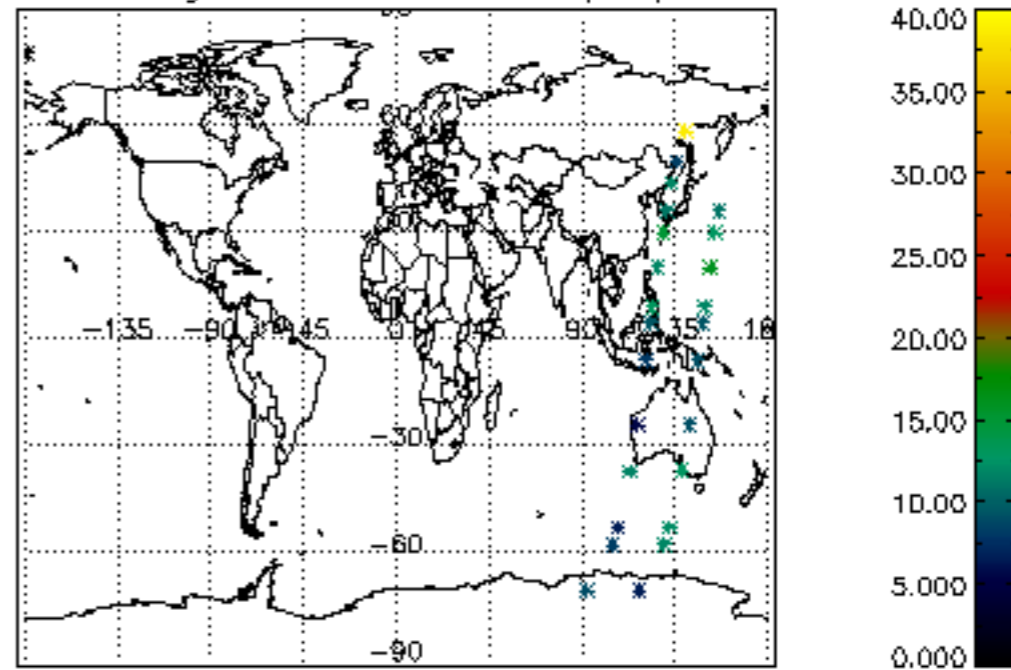
Percentage of datation errors per profile

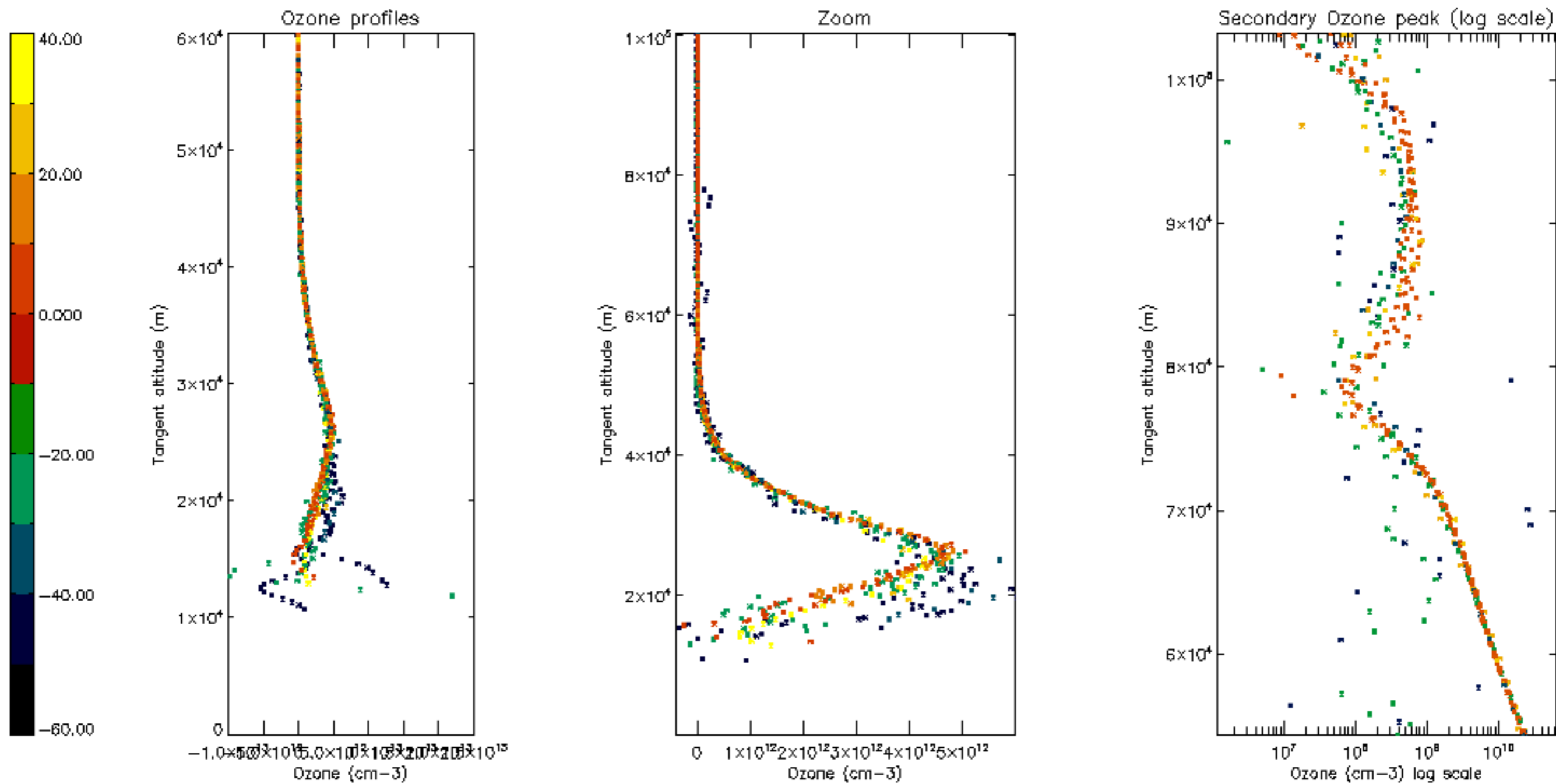


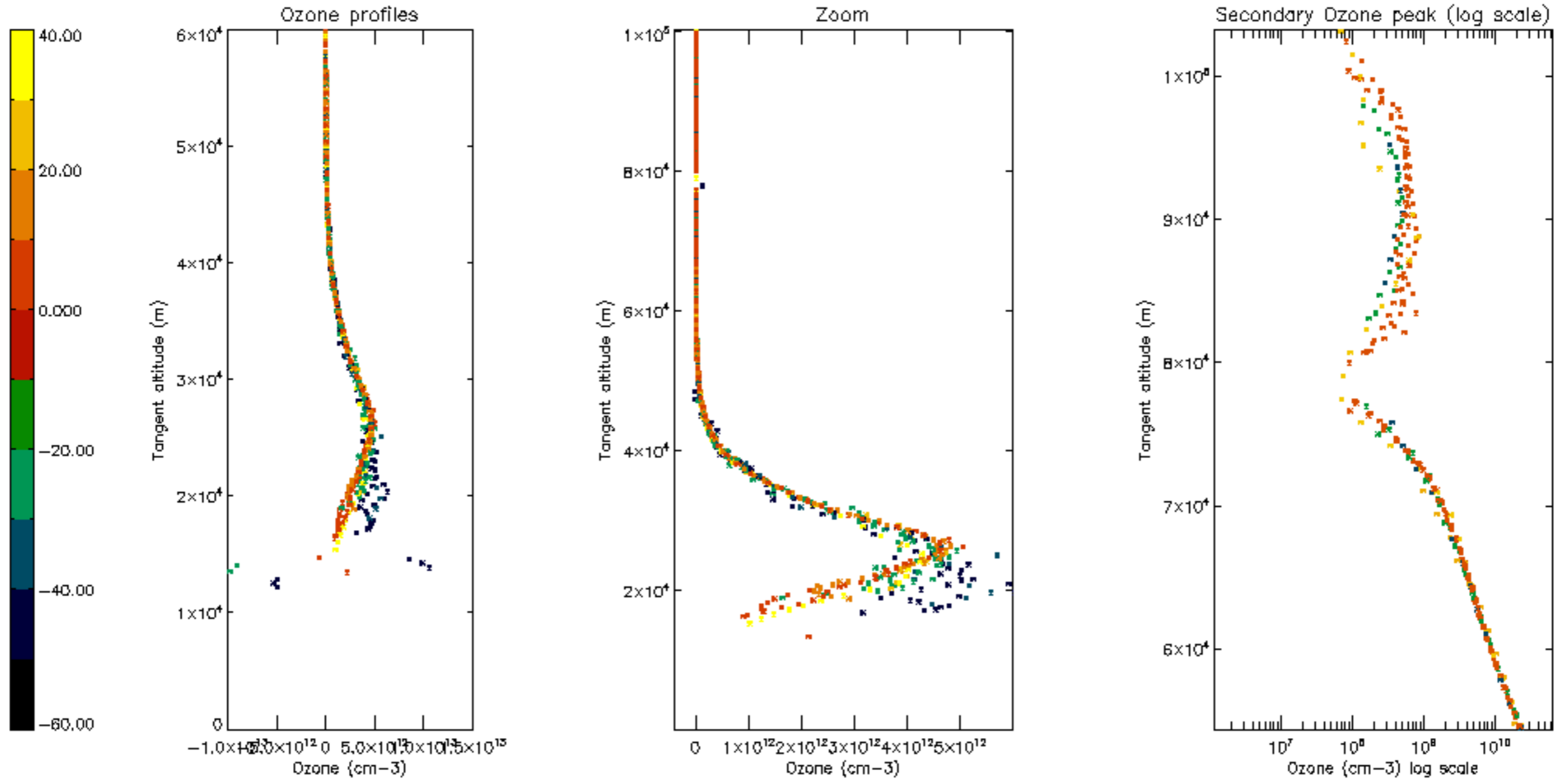
Percentage of star falling outside central band per profile

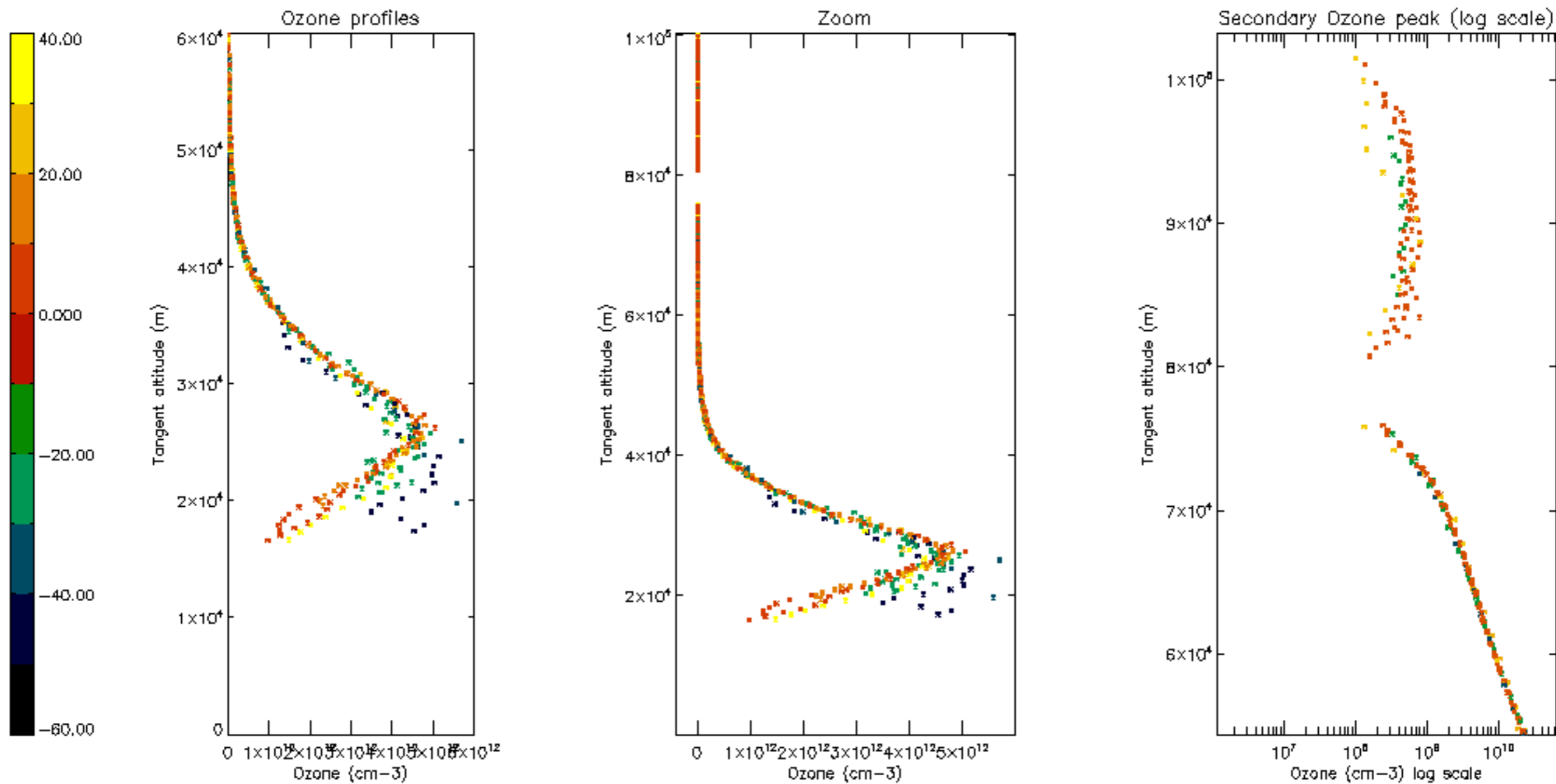


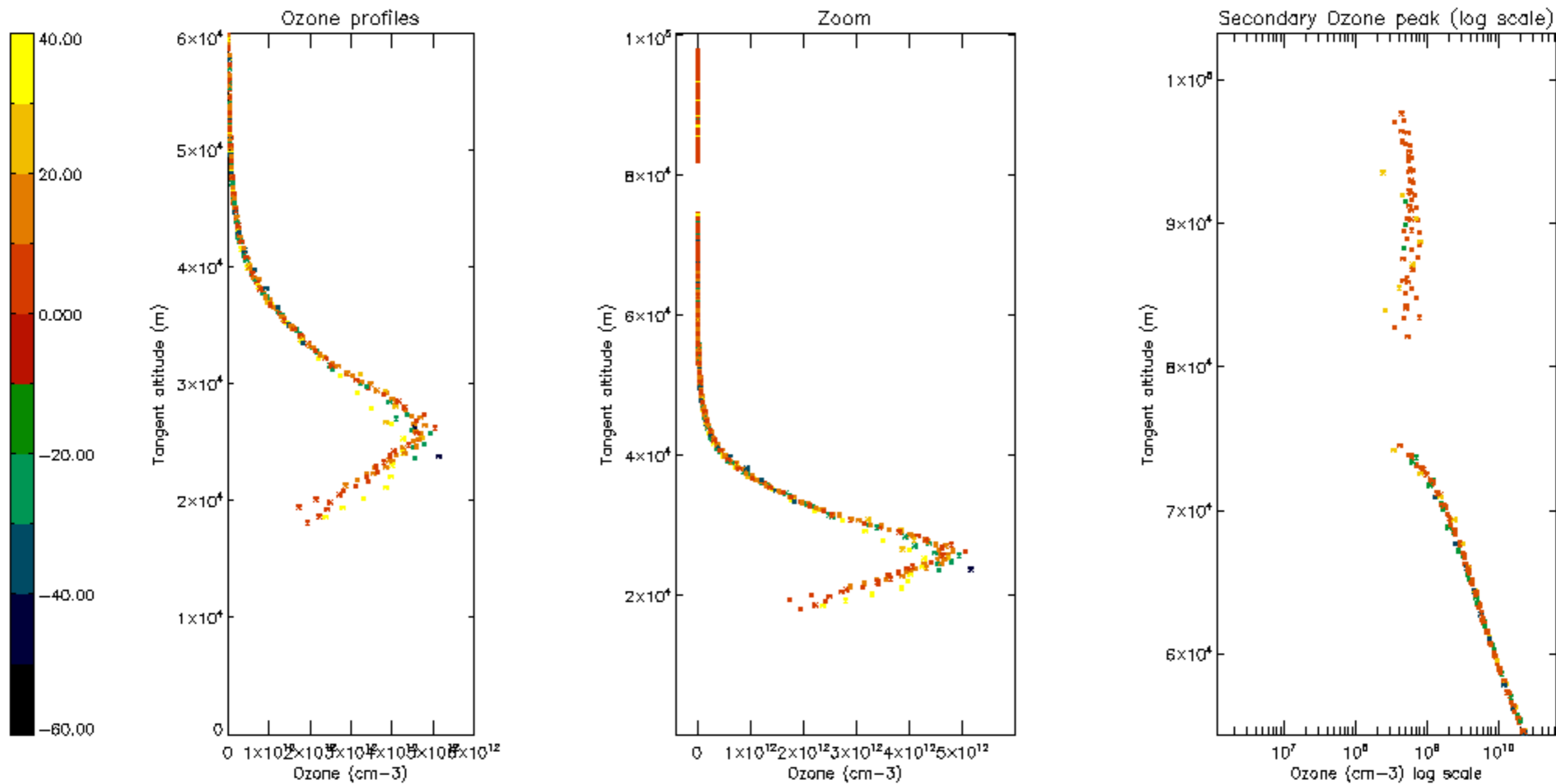
Percentage of saturation errors per profile

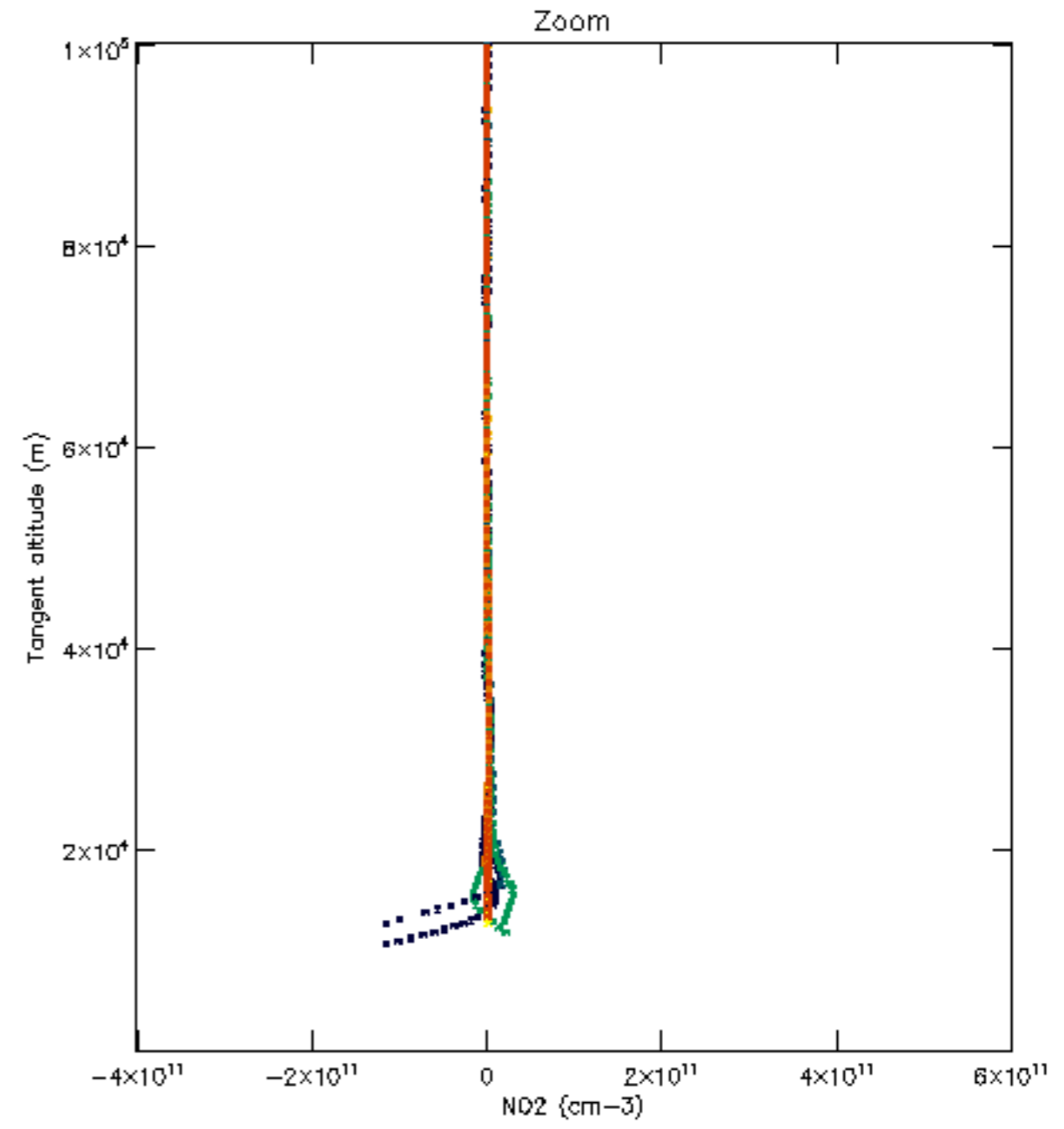
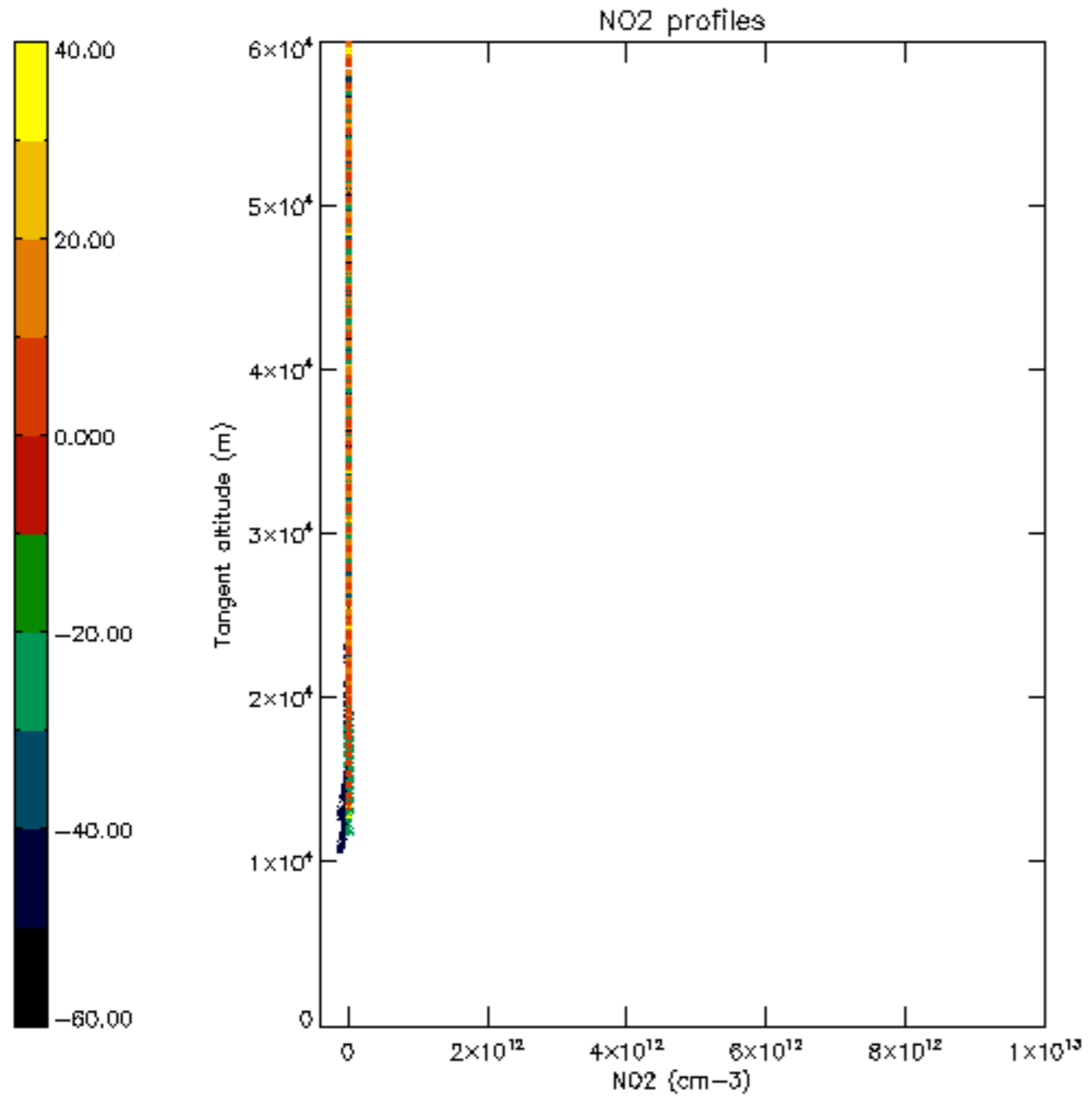


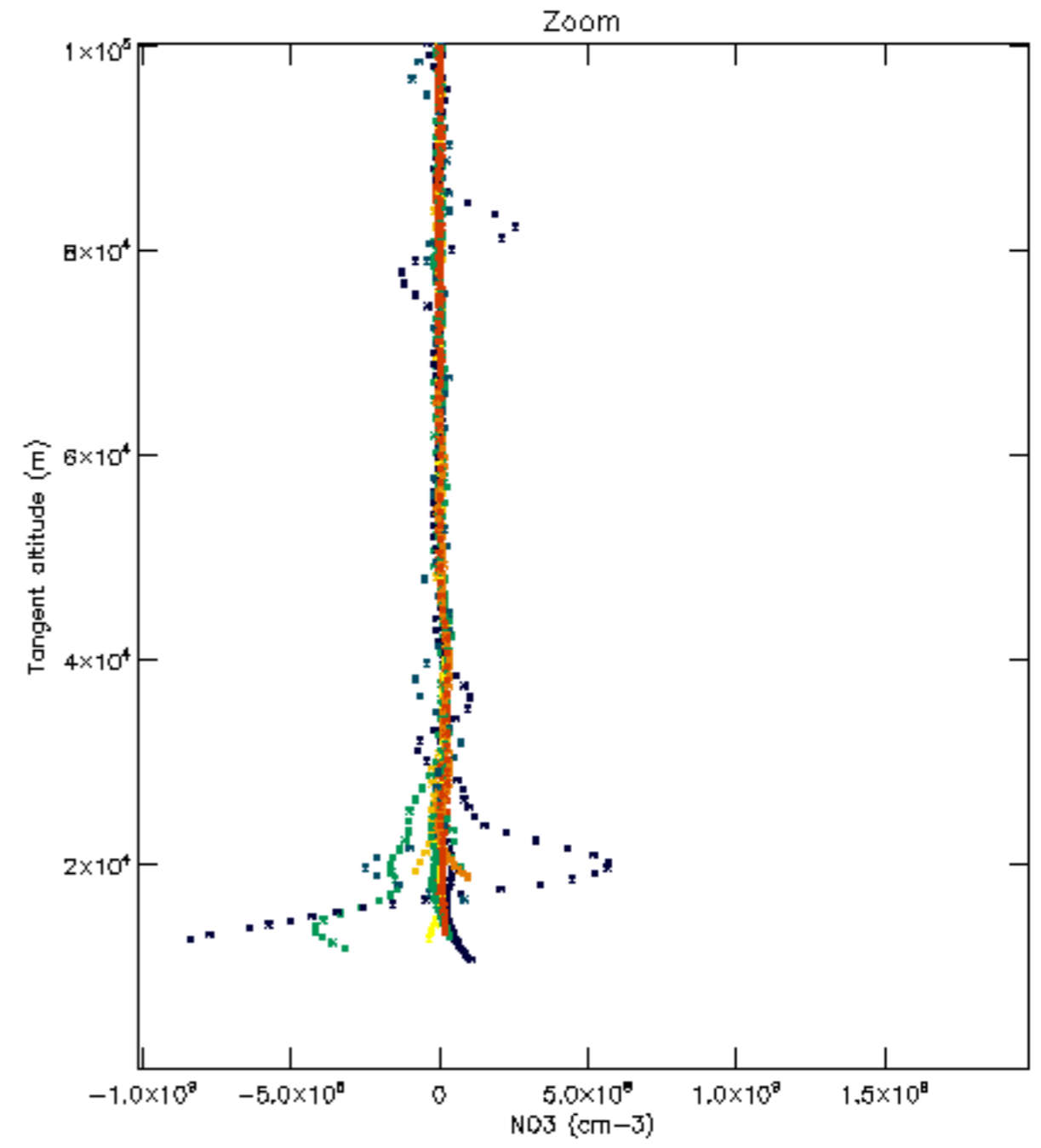
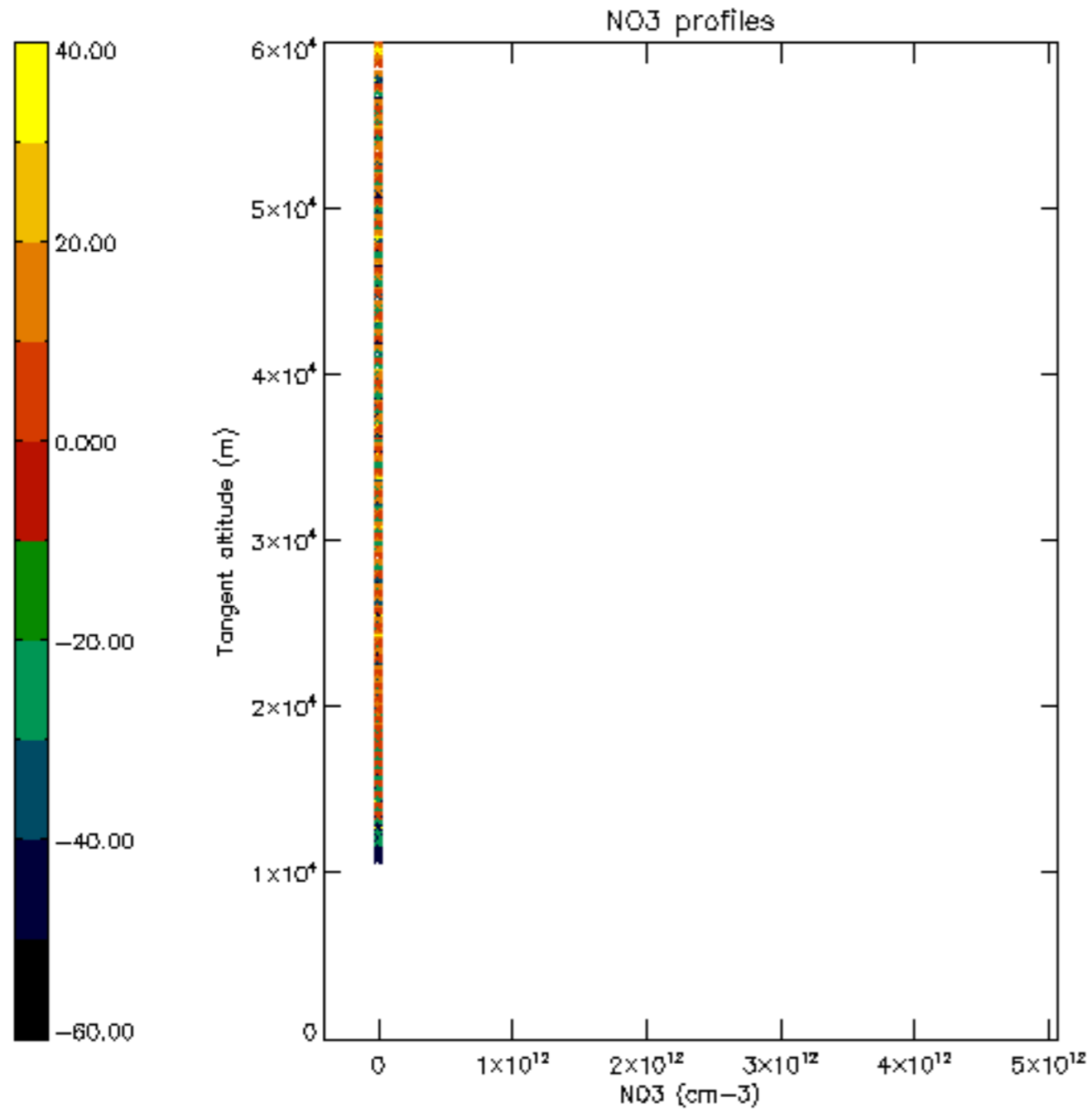


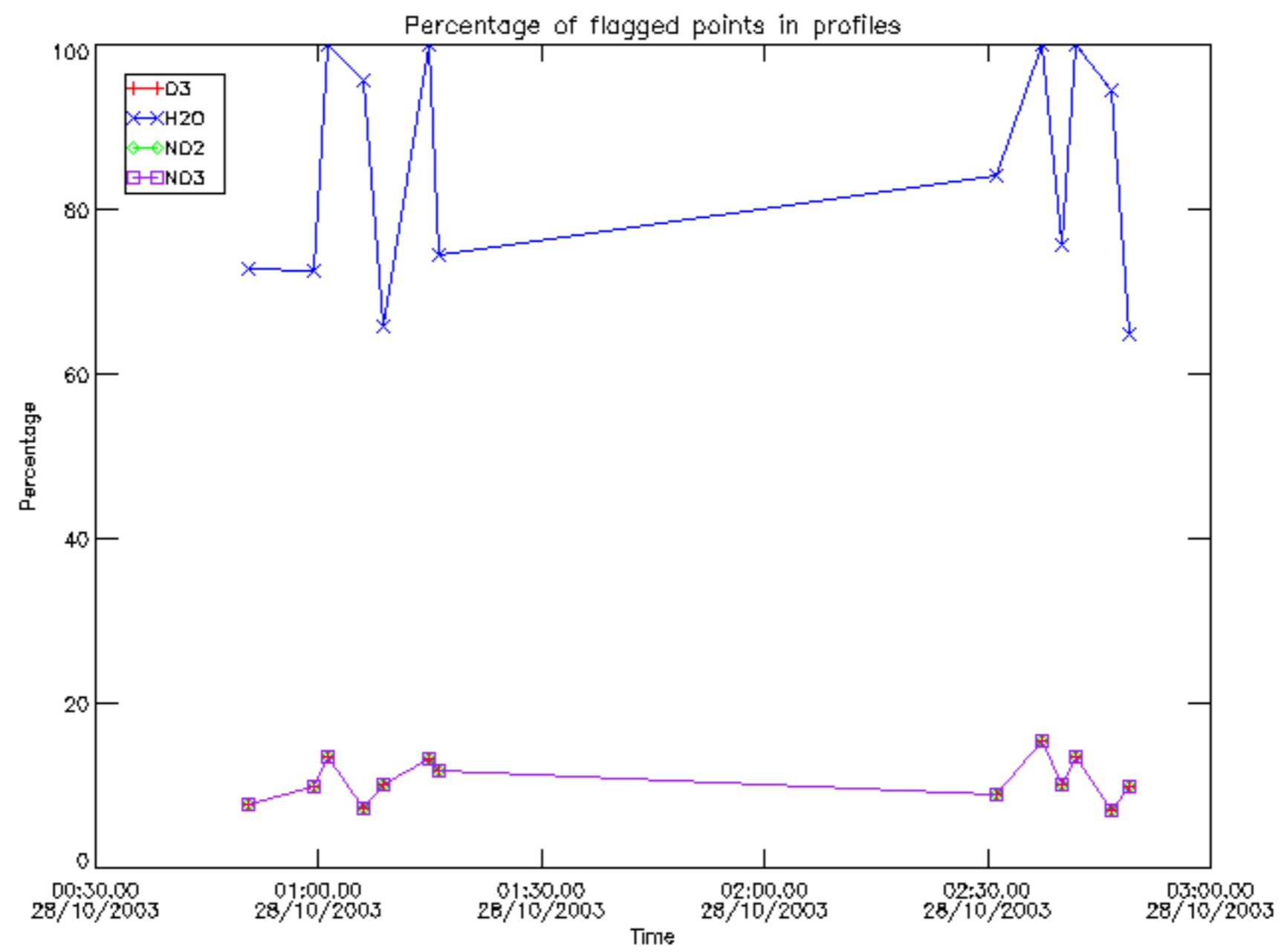




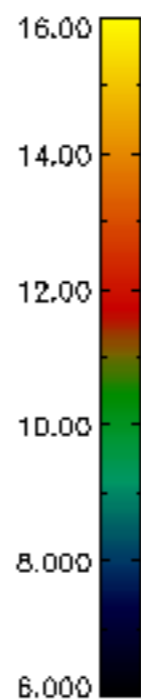
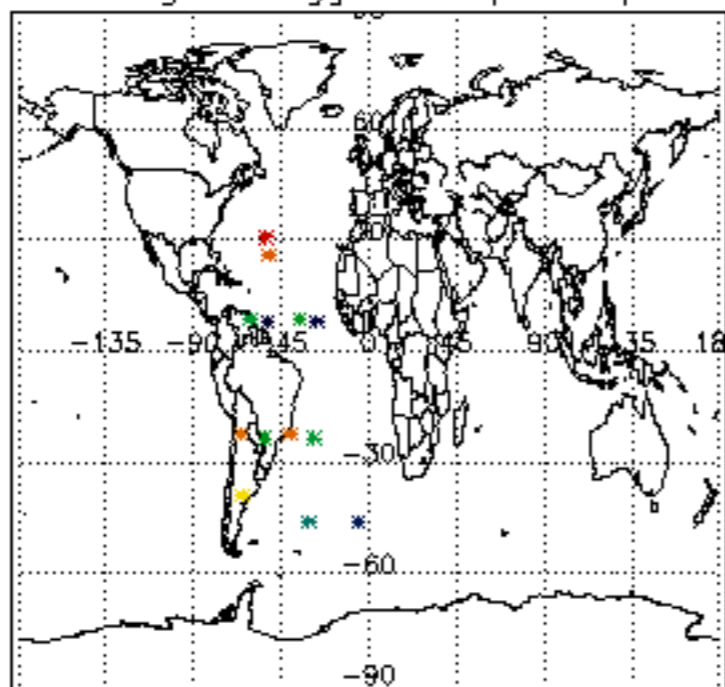




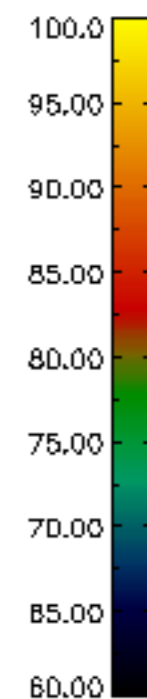
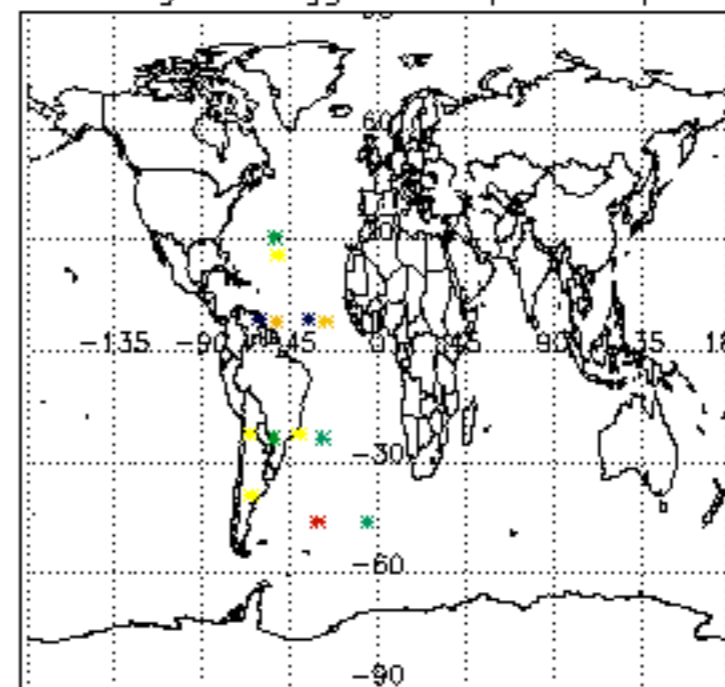




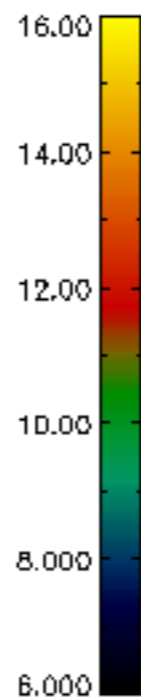
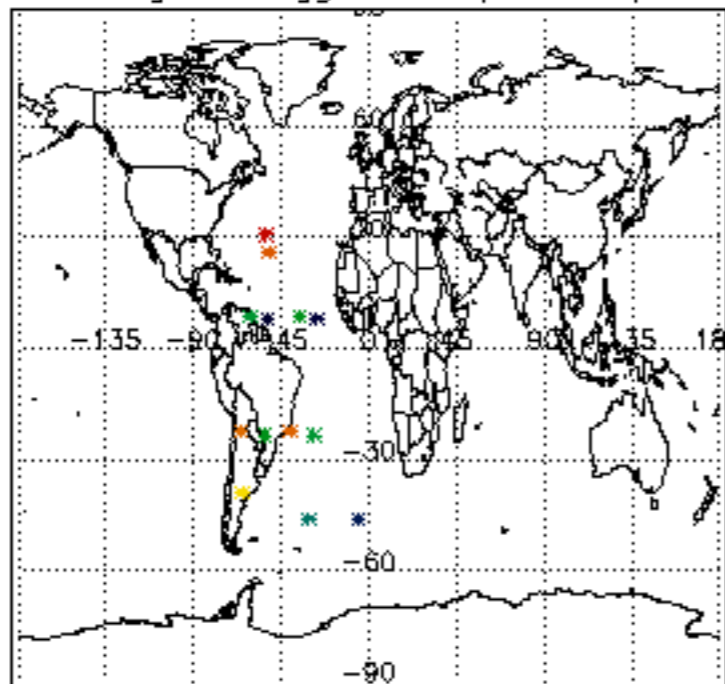
Percentage of flagged data per D3 profile



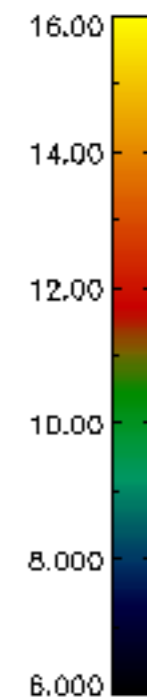
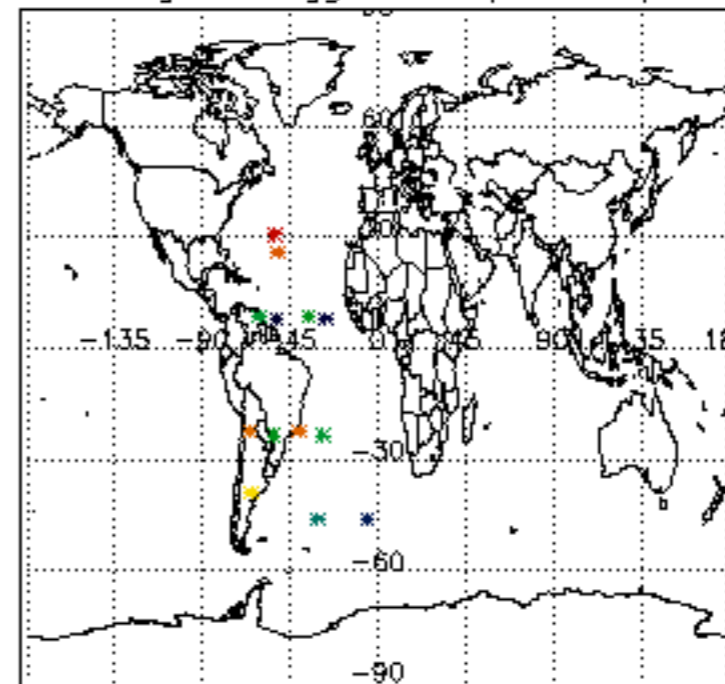
Percentage of flagged data per H2O profile

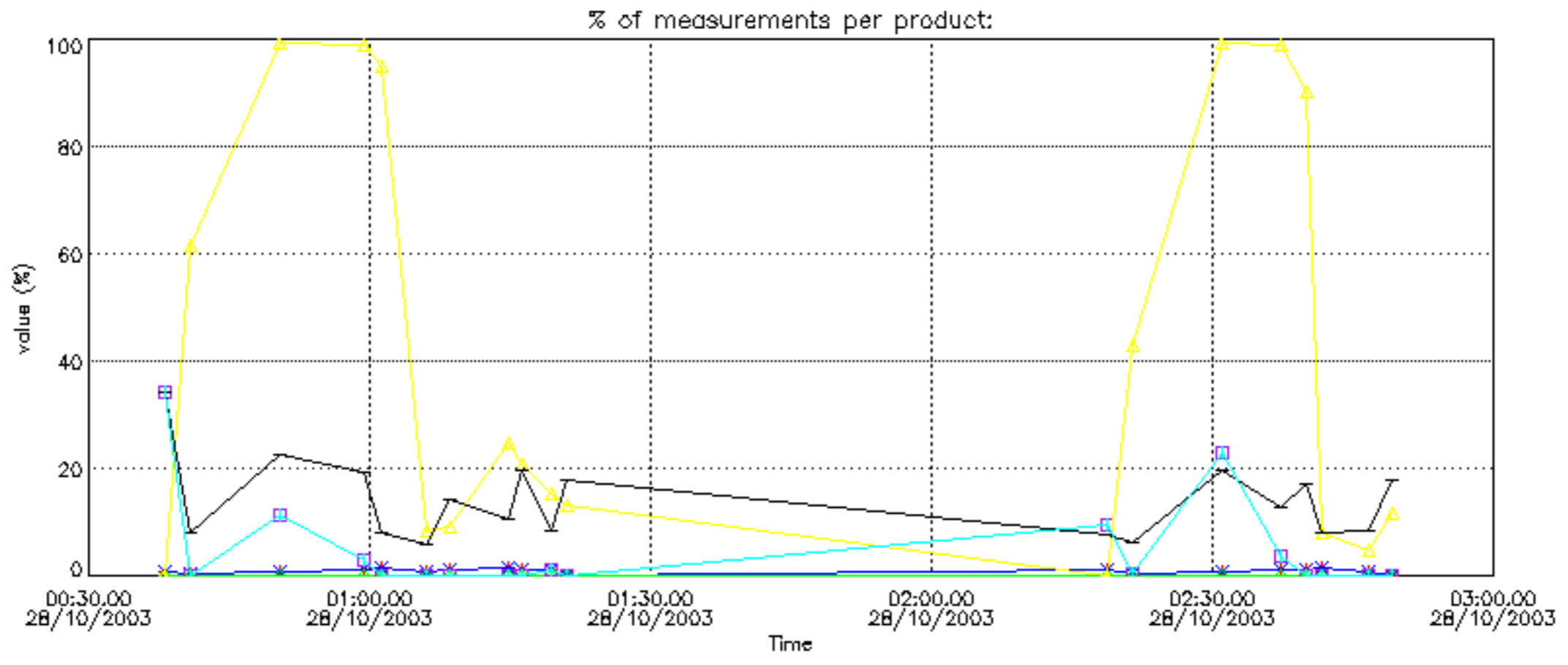


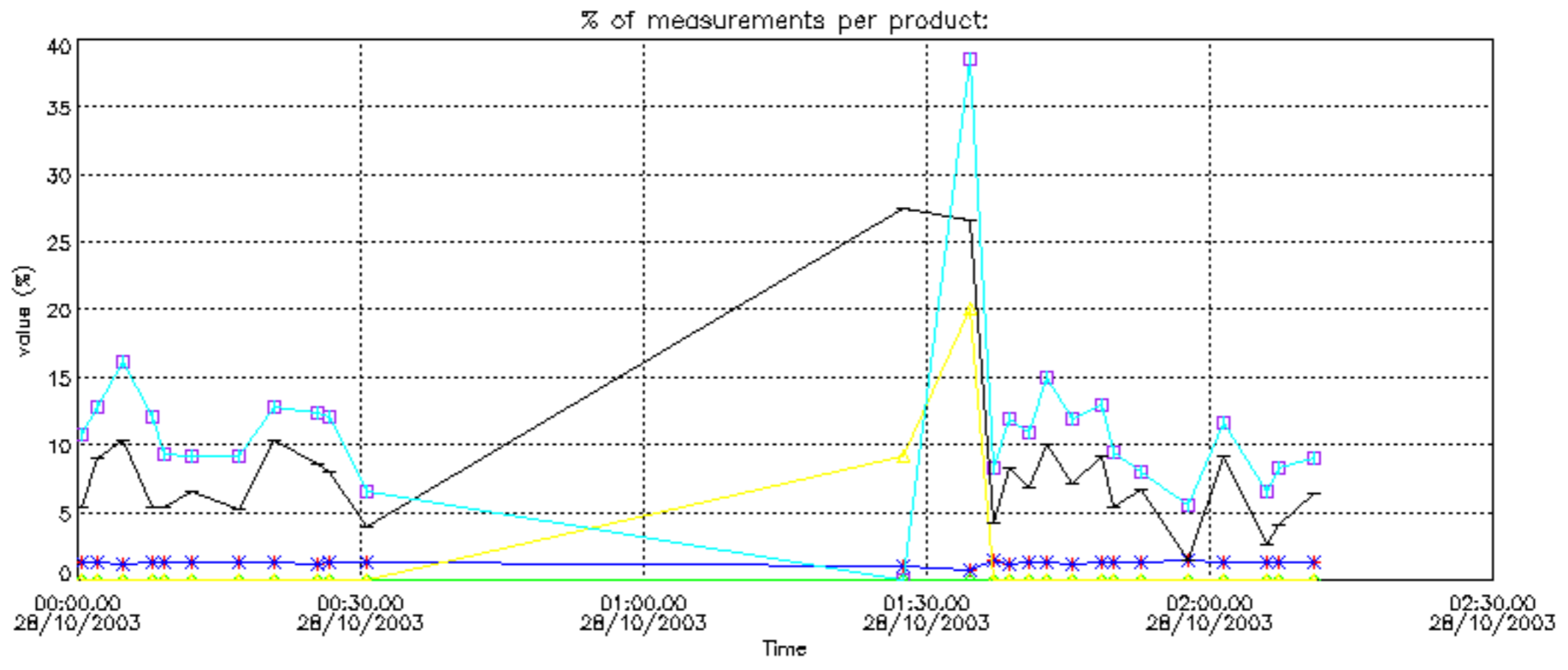
Percentage of flagged data per NO2 profile



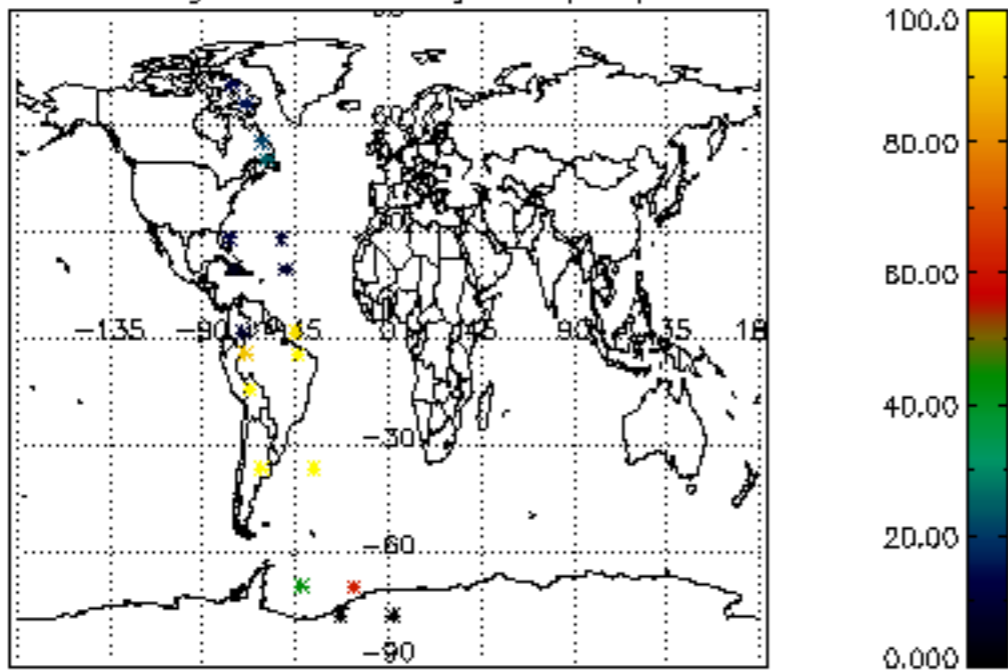
Percentage of flagged data per NO3 profile



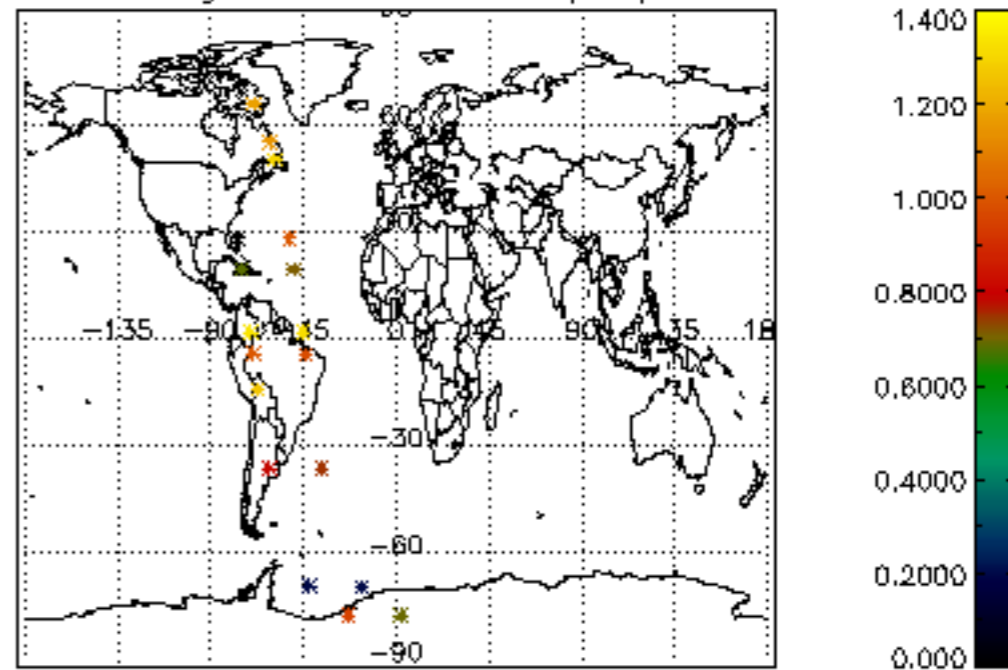




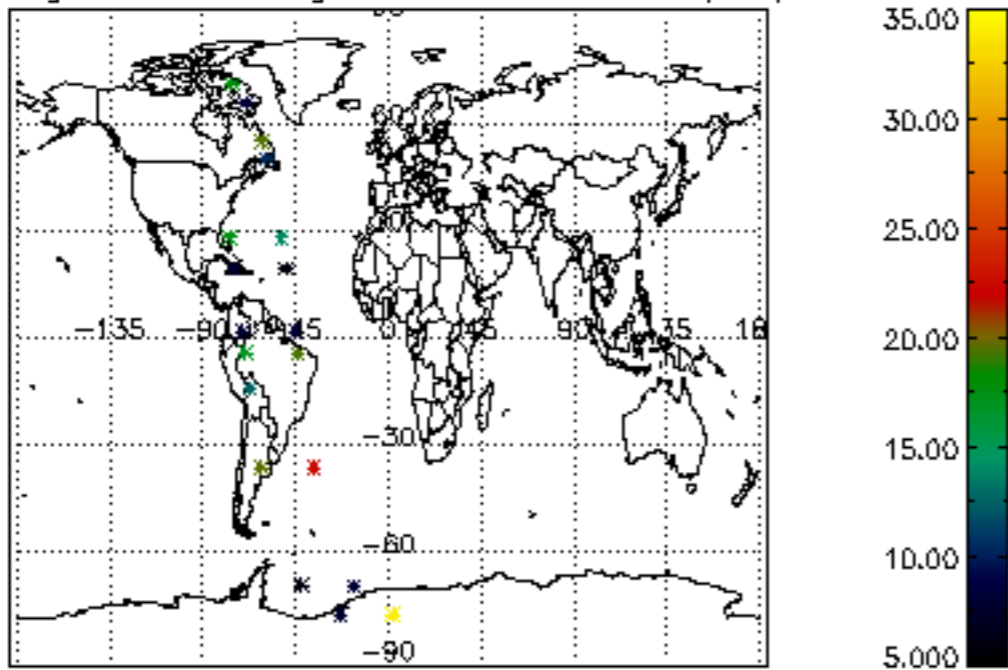
Percentage of cosmic ray hits per profile



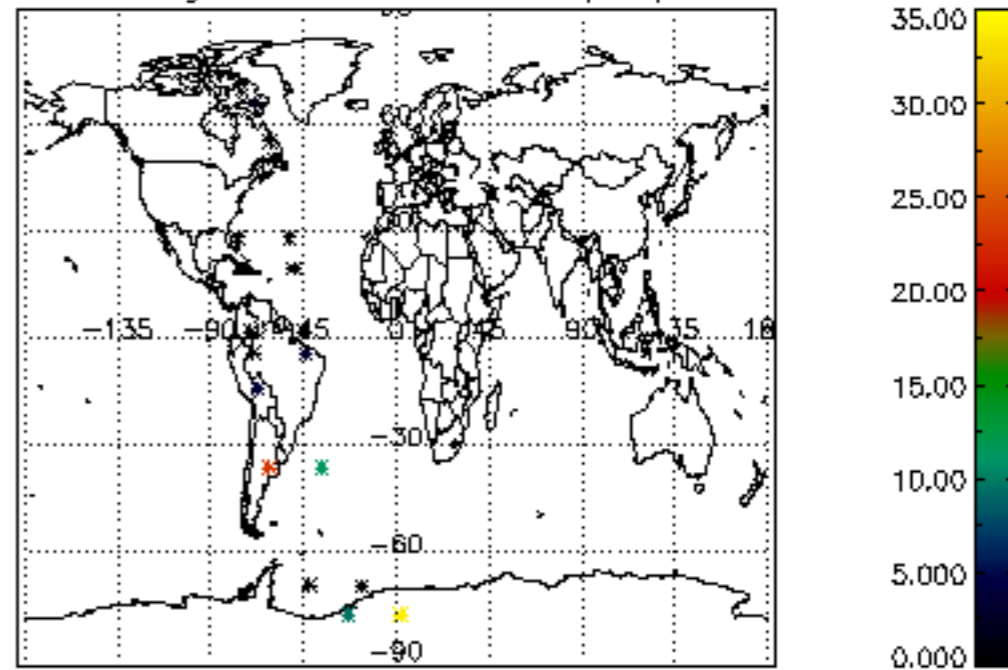
Percentage of datation errors per profile



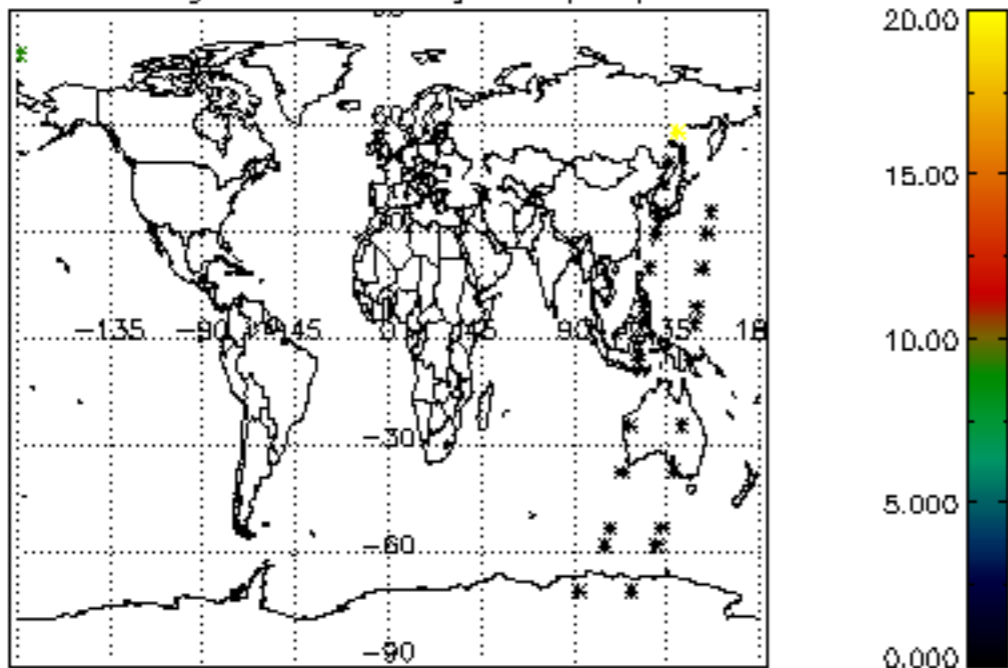
Percentage of star falling outside central band per profile



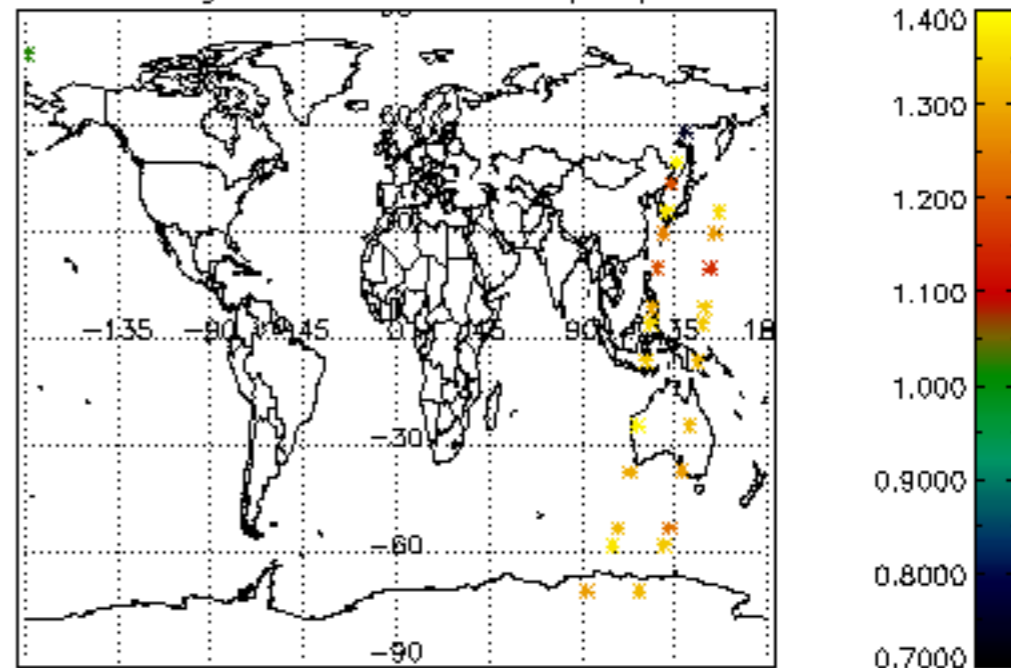
Percentage of saturation errors per profile



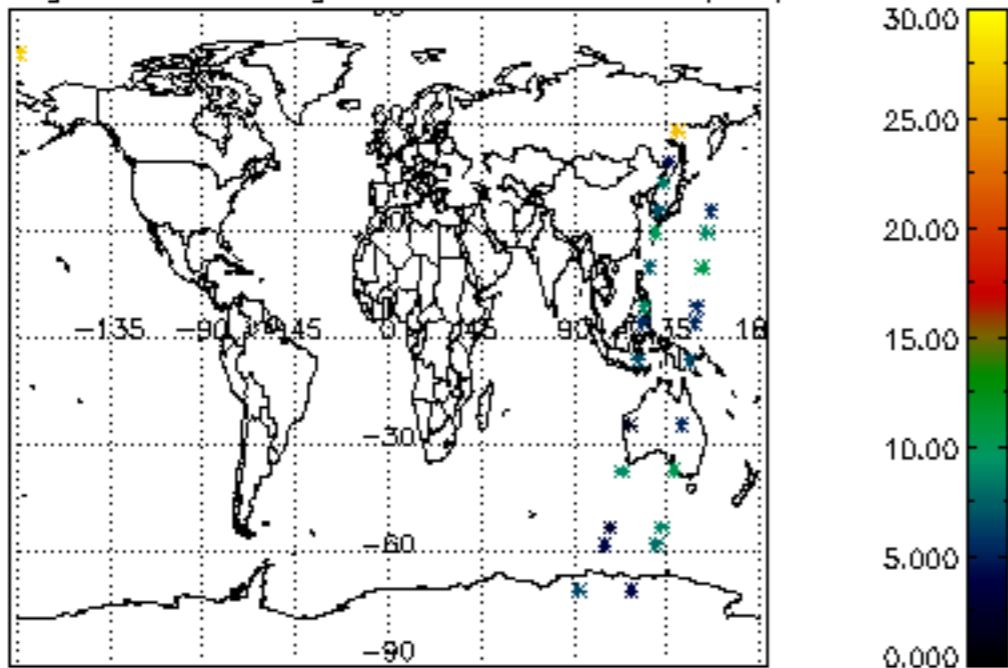
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

