

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	17APR2013 19:22:37
Data source version	GOMOS/6.01
Start time of products	12-10-2002 (12OCT2002 00:00:00)
Stop time of products	13-10-2002 (13OCT2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	258
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

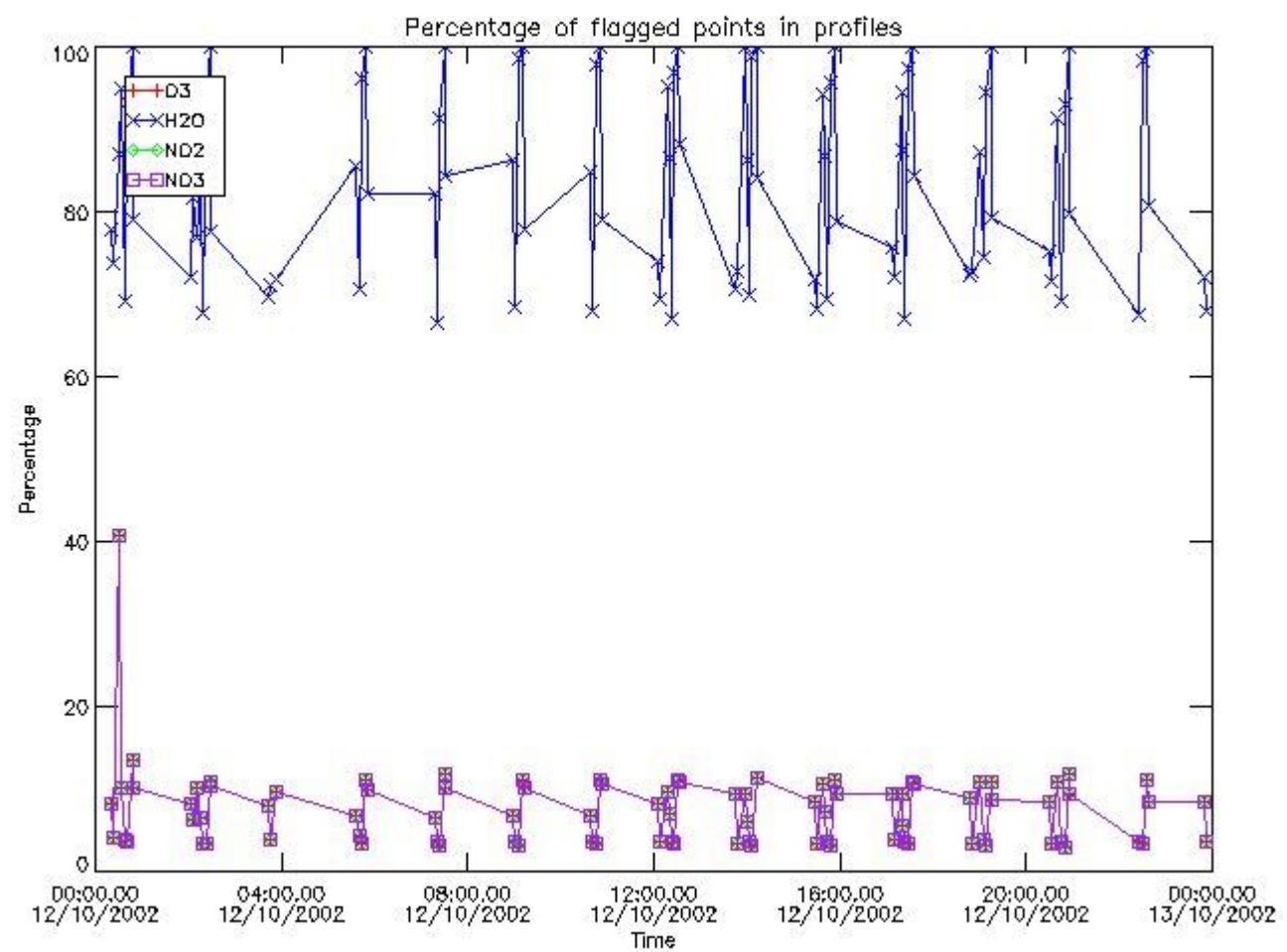
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20021012_000051_000000462010_00159_03219_2459.N1	12-OCT-2002 00:00:51	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	3219	No
2	GOM_NL__2PRFIN20021012_000413_000000432010_00159_03219_2460.N1	12-OCT-2002 00:04:13	Bright	43.000	174	52Psi UMa	3.0040	4400.0	86	3219	No
3	GOM_NL__2PRFIN20021012_001132_000000982010_00159_03219_2461.N1	12-OCT-2002 00:11:32	Bright	97.500	17	78Bet Gem	1.1610	4500.0	195	3219	No
4	GOM_NL__2PRFIN20021012_001412_000000522010_00159_03219_2462.N1	12-OCT-2002 00:14:12	Bright	51.500	22	32Alp Leo	1.3600	15200.	103	3219	No
5	GOM_NL__2PRFIN20021012_002118_000000622010_00159_03219_2463.N1	12-OCT-2002 00:21:18	Dark	61.500	48	30Alp Hya	1.9770	4100.0	123	3219	No
6	GOM_NL__2PRFIN20021012_002346_000001292010_00159_03219_2464.N1	12-OCT-2002 00:23:46	Dark	128.50	8	10Alp CMi	0.40000	6500.0	257	3219	No
7	GOM_NL__2PRFIN20021012_003057_000000552010_00159_03219_2465.N1	12-OCT-2002 00:30:57	Dark	54.500	65	Lam Vel	2.2040	4400.0	109	3219	No
8	GOM_NL__2PRFIN20021012_003358_000000512010_00159_03219_2466.N1	12-OCT-2002 00:33:58	Dark	50.500	34	Gam2Vel	1.7930	23000.	101	3219	No
9	GOM_NL__2PRFIN20021012_003739_000001372010_00160_03220_2440.N1	12-OCT-2002 00:37:39	Dark	137.00	1	9Alp CMa	-1.4400	11000.	274	3220	No
10	GOM_NL__2PRFIN20021012_004135_000001572010_00160_03220_2441.N1	12-OCT-2002 00:41:35	Dark	156.50	47	2Bet CMa	1.9760	28000.	313	3220	No
11	GOM_NL__2PRFIN20021012_004746_000000462010_00160_03220_2442.N1	12-OCT-2002 00:47:46	Dark	45.500	143	Alp Hyi	2.8570	7200.0	91	3220	No
12	GOM_NL__2PRFIN20021012_004914_000000512010_00160_03220_2443.N1	12-OCT-2002 00:49:14	Dark	50.500	9	Alp Eri	0.45300	24000.	101	3220	No
13	GOM_NL__2PRFIN20021012_005133_000000572010_00160_03220_2444.N1	12-OCT-2002 00:51:33	Straylight	57.000	157	The1Eri	2.9060	9300.0	114	3220	No
14	GOM_NL__2PRFIN20021012_005420_000000502010_00160_03220_2445.N1	12-OCT-2002 00:54:20	Straylight	49.500	84	Alp Phe	2.3970	4500.0	99	3220	No
15	GOM_NL__2PRFIN20021012_010059_000000502010_00160_03220_2446.N1	12-OCT-2002 01:00:59	Straylight	50.000	52	16Bet Cet	2.0370	4500.0	100	3220	No
16	GOM_NL__2PRFIN20021012_011046_000000442010_00160_03220_2447.N1	12-OCT-2002 01:10:46	Bright	44.000	140	88Gam Peg	2.8340	26000.	88	3220	No
17	GOM_NL__2PRFIN20021012_011446_000000462010_00160_03220_2448.N1	12-OCT-2002 01:14:46	Bright	46.000	58	21Alp And	2.0730	11000.	92	3220	No
18	GOM_NL__2PRFIN20021012_011734_000000492010_00160_03220_2449.N1	12-OCT-2002 01:17:34	Bright	49.000	53	43Bet And	2.0480	3300.0	98	3220	No
19	GOM_NL__2PRFIN20021012_011935_000000592010_00160_03220_2450.N1	12-OCT-2002 01:19:35	Bright	59.000	173	4Bet Tri	3.0040	8900.0	118	3220	No
20	GOM_NL__2PRFIN20021012_012121_000000572010_00160_03220_2451.N1	12-OCT-2002 01:21:21	Bright	56.500	73	57Gam1And	2.2600	13100.	113	3220	No
21	GOM_NL__2PRFIN20021012_012320_000000452010_00160_03220_2452.N1	12-OCT-2002 01:23:20	Bright	45.000	74	11Bet Cas	2.2680	6600.0	90	3220	No
22	GOM_NL__2PRFIN20021012_012445_000000482010_00160_03220_2453.N1	12-OCT-2002 01:24:45	Bright	48.000	110	37Del Cas	2.6780	8900.0	96	3220	No
23	GOM_NL__2PRFIN20021012_012646_000000562010_00160_03220_2454.N1	12-OCT-2002 01:26:46	Bright	55.500	160	23Gam Per	2.9300	4700.0	111	3220	No
24	GOM_NL__2PRFIN20021012_013146_000000442010_00160_03220_2455.N1	12-OCT-2002 01:31:46	Bright	44.000	49	1Alp UMi	1.9900	6300.0	88	3220	No
25	GOM_NL__2PRFIN20021012_013432_000000462010_00160_03220_2456.N1	12-OCT-2002 01:34:32	Bright	45.500	60	7Bet UMi	2.0810	3950.0	91	3220	No
26	GOM_NL__2PRFIN20021012_013635_000001042010_00160_03220_2457.N1	12-OCT-2002 01:36:35	Bright	103.50	6	13Alp Aur	0.080000	3400.0	207	3220	No
27	GOM_NL__2PRFIN20021012_013957_000000472010_00160_03220_2458.N1	12-OCT-2002 01:39:57	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	3220	No
28	GOM_NL__2PRFIN20021012_014129_000000432010_00160_03220_2459.N1	12-OCT-2002 01:41:29	Bright	43.000	82	48Bet UMa	2.3650	10600.	86	3220	No
29	GOM_NL__2PRFIN20021012_014449_000000432010_00160_03220_2460.N1	12-OCT-2002 01:44:49	Bright	42.500	174	52Psi UMa	3.0040	4400.0	85	3220	No
30	GOM_NL__2PRFIN20021012_015208_000000902010_00160_03220_2461.N1	12-OCT-2002 01:52:08	Bright	90.000	17	78Bet Gem	1.1610	4500.0	180	3220	No
31	GOM_NL__2PRFIN20021012_015450_000000482010_00160_03220_2462.N1	12-OCT-2002 01:54:50	Bright	48.000	22	32Alp Leo	1.3600	15200.	96	3220	No
32	GOM_NL__2PRFIN20021012_020156_000000622010_00160_03220_2463.N1	12-OCT-2002 02:01:56	Dark	61.500	48	30Alp Hya	1.9770	4100.0	123	3220	No
33	GOM_NL__2PRFIN20021012_020424_000001402010_00160_03220_2464.N1	12-OCT-2002 02:04:24	Dark	139.50	8	10Alp CMi	0.40000	6500.0	279	3220	No
34	GOM_NL__2PRFIN20021012_021133_000000502010_00160_03220_2465.N1	12-OCT-2002 02:11:33	Dark	50.000	65	Lam Vel	2.2040	4400.0	100	3220	No
35	GOM_NL__2PRFIN20021012_021539_000000772010_00161_03221_2440.N1	12-OCT-2002 02:15:39	Dark	77.000	37	25Del CMa	1.8300	5900.0	154	3221	No
36	GOM_NL__2PRFIN20021012_021818_000001732010_00161_03221_2441.N1	12-OCT-2002 02:18:18	Dark	172.50	1	9Alp CMa	-1.4400	11000.	345	3221	No
37	GOM_NL__2PRFIN20021012_022214_000001562010_00161_03221_2442.N1	12-OCT-2002 02:22:14	Dark	156.00	47	2Bet CMa	1.9760	28000.	312	3221	No
38	GOM_NL__2PRFIN20021012_022823_000000472010_00161_03221_2443.N1	12-OCT-2002 02:28:23	Dark	46.500	143	Alp Hyi	2.8570	7200.0	93	3221	No
39	GOM_NL__2PRFIN20021012_022950_000000542010_00161_03221_2444.N1	12-OCT-2002 02:29:50	Dark	54.000	9	Alp Eri	0.45300	24000.	108	3221	No
40	GOM_NL__2PRFIN20021012_023210_000000562010_00161_03221_2445.N1	12-OCT-2002 02:32:10	Straylight	56.000	157	The1Eri	2.9060	9300.0	112	3221	No
41	GOM_NL__2PRFIN20021012_023456_000000472010_00161_03221_2446.N1	12-OCT-2002 02:34:56	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	3221	No
42	GOM_NL__2PRFIN20021012_024135_000000532010_00161_03221_2447.N1	12-OCT-2002 02:41:35	Straylight	53.000	52	16Bet Cet	2.0370	4500.0	106	3221	No

220	GOM_NL__2PRFIN20021012_200110_000000452010_00171_03231_2474.N1	12-OCT-2002 20:01:10	Bright	45.000	60	7Bet UMi	2.0810	3950.0	90	3231	No
221	GOM_NL__2PRFIN20021012_200632_000000472010_00171_03231_2475.N1	12-OCT-2002 20:06:32	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	3231	No
222	GOM_NL__2PRFIN20021012_200805_000000432010_00171_03231_2476.N1	12-OCT-2002 20:08:05	Bright	43.000	82	48Bet UMa	2.3650	10600.	86	3231	No
223	GOM_NL__2PRFIN20021012_201126_000000432010_00171_03231_2477.N1	12-OCT-2002 20:11:26	Bright	43.000	174	52Psi UMa	3.0040	4400.0	86	3231	No
224	GOM_NL__2PRFIN20021012_201848_000000992010_00171_03231_2478.N1	12-OCT-2002 20:18:48	Bright	98.500	17	78Bet Gem	1.1610	4500.0	197	3231	No
225	GOM_NL__2PRFIN20021012_202129_000000632010_00171_03231_2479.N1	12-OCT-2002 20:21:29	Bright	63.000	22	32Alp Leo	1.3600	15200.	126	3231	No
226	GOM_NL__2PRFIN20021012_202837_000000612010_00171_03231_2480.N1	12-OCT-2002 20:28:37	Dark	61.000	48	30Alp Hya	1.9770	4100.0	122	3231	No
227	GOM_NL__2PRFIN20021012_203123_000001572010_00171_03231_2481.N1	12-OCT-2002 20:31:23	Dark	157.00	8	10Alp CMi	0.40000	6500.0	314	3231	No
228	GOM_NL__2PRFIN20021012_204125_000000472010_00171_03231_2482.N1	12-OCT-2002 20:41:25	Dark	46.500	46	Del Vel	1.9540	10600.	93	3231	No
229	GOM_NL__2PRFIN20021012_204524_000001412010_00172_03232_8939.N1	12-OCT-2002 20:45:24	Dark	141.00	1	9Alp CMa	-1.4400	11000.	282	3232	No
230	GOM_NL__2PRFIN20021012_204925_000001782010_00172_03232_8940.N1	12-OCT-2002 20:49:25	Dark	177.50	47	2Bet CMa	1.9760	28000.	355	3232	No
231	GOM_NL__2PRFIN20021012_205501_000000482010_00172_03232_8941.N1	12-OCT-2002 20:55:01	Dark	47.500	143	Alp Hyi	2.8570	7200.0	95	3232	No
232	GOM_NL__2PRFIN20021012_205628_000000552010_00172_03232_8942.N1	12-OCT-2002 20:56:28	Dark	54.500	9	Alp Eri	0.45300	24000.	109	3232	No
233	GOM_NL__2PRFIN20021012_205849_000000562010_00172_03232_8943.N1	12-OCT-2002 20:58:49	Straylight	55.500	157	The1Eri	2.9060	9300.0	111	3232	No
234	GOM_NL__2PRFIN20021012_210133_000000502010_00172_03232_8944.N1	12-OCT-2002 21:01:33	Straylight	49.500	84	Alp Phe	2.3970	4500.0	99	3232	No
235	GOM_NL__2PRFIN20021012_222603_000001432010_00173_03233_8939.N1	12-OCT-2002 22:26:03	Dark	143.00	1	9Alp CMa	-1.4400	11000.	286	3233	No
236	GOM_NL__2PRFIN20021012_223004_000001692010_00173_03233_8940.N1	12-OCT-2002 22:30:04	Dark	168.50	47	2Bet CMa	1.9760	28000.	337	3233	No
237	GOM_NL__2PRFIN20021012_223537_000000462010_00173_03233_8941.N1	12-OCT-2002 22:35:37	Dark	46.000	143	Alp Hyi	2.8570	7200.0	92	3233	No
238	GOM_NL__2PRFIN20021012_223704_000000602010_00173_03233_8942.N1	12-OCT-2002 22:37:04	Dark	59.500	9	Alp Eri	0.45300	24000.	119	3233	No
239	GOM_NL__2PRFIN20021012_223926_000000572010_00173_03233_2460.N1	12-OCT-2002 22:39:26	Straylight	56.500	157	The1Eri	2.9060	9300.0	113	3233	No
240	GOM_NL__2PRFIN20021012_224209_000000492010_00173_03233_2461.N1	12-OCT-2002 22:42:09	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	3233	No
241	GOM_NL__2PRFIN20021012_224847_000000492010_00173_03233_2462.N1	12-OCT-2002 22:48:47	Straylight	48.500	52	16Bet Cet	2.0370	4500.0	97	3233	No
242	GOM_NL__2PRFIN20021012_225833_000000442010_00173_03233_2463.N1	12-OCT-2002 22:58:33	Bright	44.000	140	88Gam Peg	2.8340	26000.	88	3233	No
243	GOM_NL__2PRFIN20021012_230231_000000462010_00173_03233_2464.N1	12-OCT-2002 23:02:31	Bright	46.000	58	21Alp And	2.0730	11000.	92	3233	No
244	GOM_NL__2PRFIN20021012_230515_000000532010_00173_03233_2465.N1	12-OCT-2002 23:05:15	Bright	52.500	53	43Bet And	2.0480	3300.0	105	3233	No
245	GOM_NL__2PRFIN20021012_230710_000000562010_00173_03233_2466.N1	12-OCT-2002 23:07:10	Bright	56.000	173	4Bet Tri	3.0040	8900.0	112	3233	No
246	GOM_NL__2PRFIN20021012_230858_000000532010_00173_03233_2467.N1	12-OCT-2002 23:08:58	Bright	52.500	73	57Gam1And	2.2600	13100.	105	3233	No
247	GOM_NL__2PRFIN20021012_231105_000000462010_00173_03233_2468.N1	12-OCT-2002 23:11:05	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	3233	No
248	GOM_NL__2PRFIN20021012_231310_000000442010_00173_03233_2469.N1	12-OCT-2002 23:13:10	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	3233	No
249	GOM_NL__2PRFIN20021012_231455_000000662010_00173_03233_2470.N1	12-OCT-2002 23:14:55	Bright	65.500	35	33Alp Per	1.7950	6250.0	131	3233	No
250	GOM_NL__2PRFIN20021012_231932_000000442010_00173_03233_2471.N1	12-OCT-2002 23:19:32	Bright	44.000	49	1Alp UMi	1.9900	6300.0	88	3233	No
251	GOM_NL__2PRFIN20021012_232222_000000452010_00173_03233_2472.N1	12-OCT-2002 23:22:22	Bright	45.000	60	7Bet UMi	2.0810	3950.0	90	3233	No
252	GOM_NL__2PRFIN20021012_232743_000000482010_00173_03233_2473.N1	12-OCT-2002 23:27:43	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	3233	No
253	GOM_NL__2PRFIN20021012_232917_000000452010_00173_03233_2474.N1	12-OCT-2002 23:29:17	Bright	45.000	82	48Bet UMa	2.3650	10600.	90	3233	No
254	GOM_NL__2PRFIN20021012_233238_000000432010_00173_03233_2475.N1	12-OCT-2002 23:32:38	Bright	42.500	174	52Psi UMa	3.0040	4400.0	85	3233	No
255	GOM_NL__2PRFIN20021012_234000_000001032010_00173_03233_2476.N1	12-OCT-2002 23:40:00	Bright	103.00	17	78Bet Gem	1.1610	4500.0	206	3233	No
256	GOM_NL__2PRFIN20021012_234241_000000632010_00173_03233_2477.N1	12-OCT-2002 23:42:41	Bright	63.000	22	32Alp Leo	1.3600	15200.	126	3233	No
257	GOM_NL__2PRFIN20021012_234948_000000672010_00173_03233_2478.N1	12-OCT-2002 23:49:48	Dark	66.500	48	30Alp Hya	1.9770	4100.0	133	3233	No
258	GOM_NL__2PRFIN20021012_235239_000001392010_00173_03233_2479.N1	12-OCT-2002 23:52:39	Dark	139.00	8	10Alp CMi	0.40000	6500.0	278	3233	No

3. Quality information per product

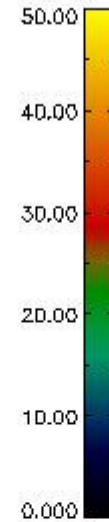
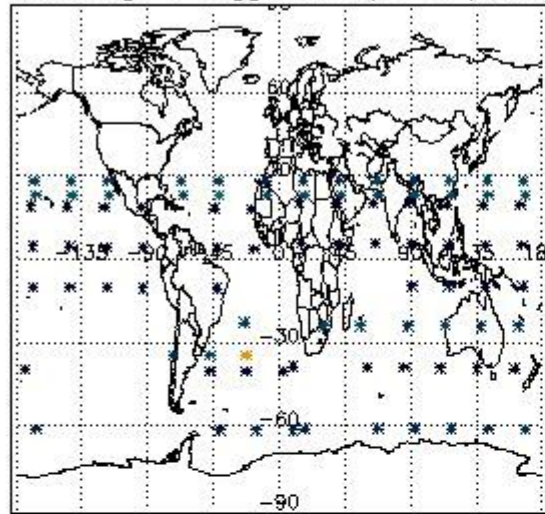
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

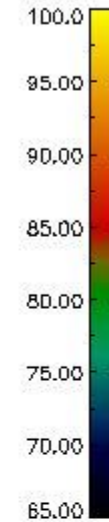
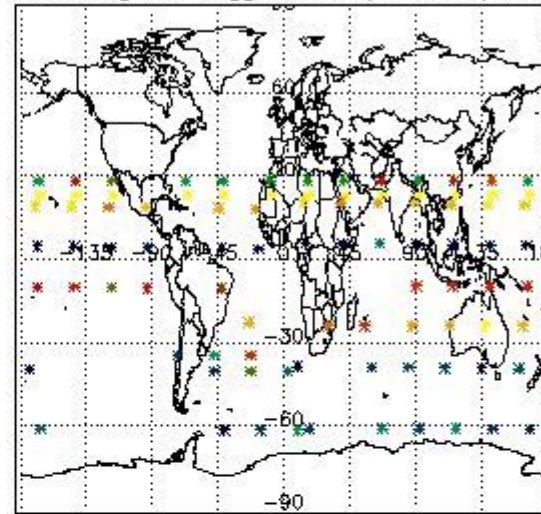


3.2 Plot quality information per product (world map)

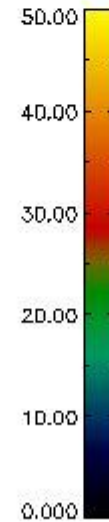
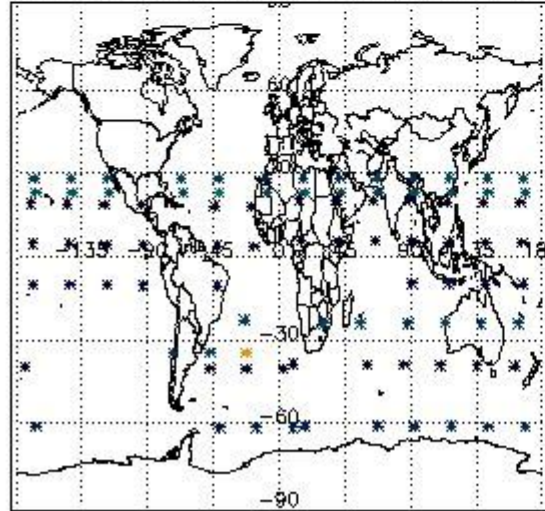
Percentage of flagged data per O3 profile



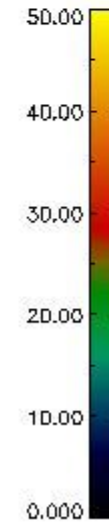
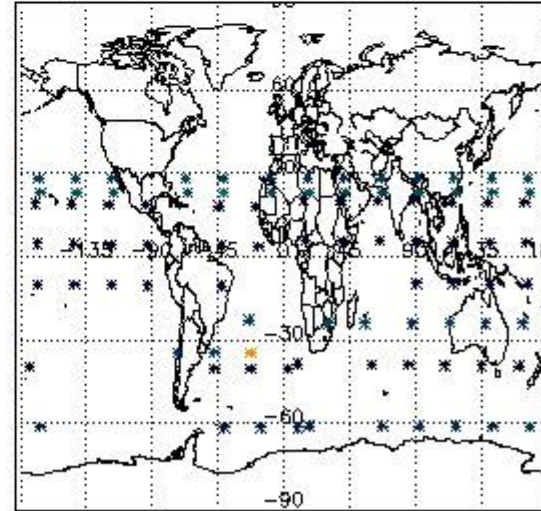
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

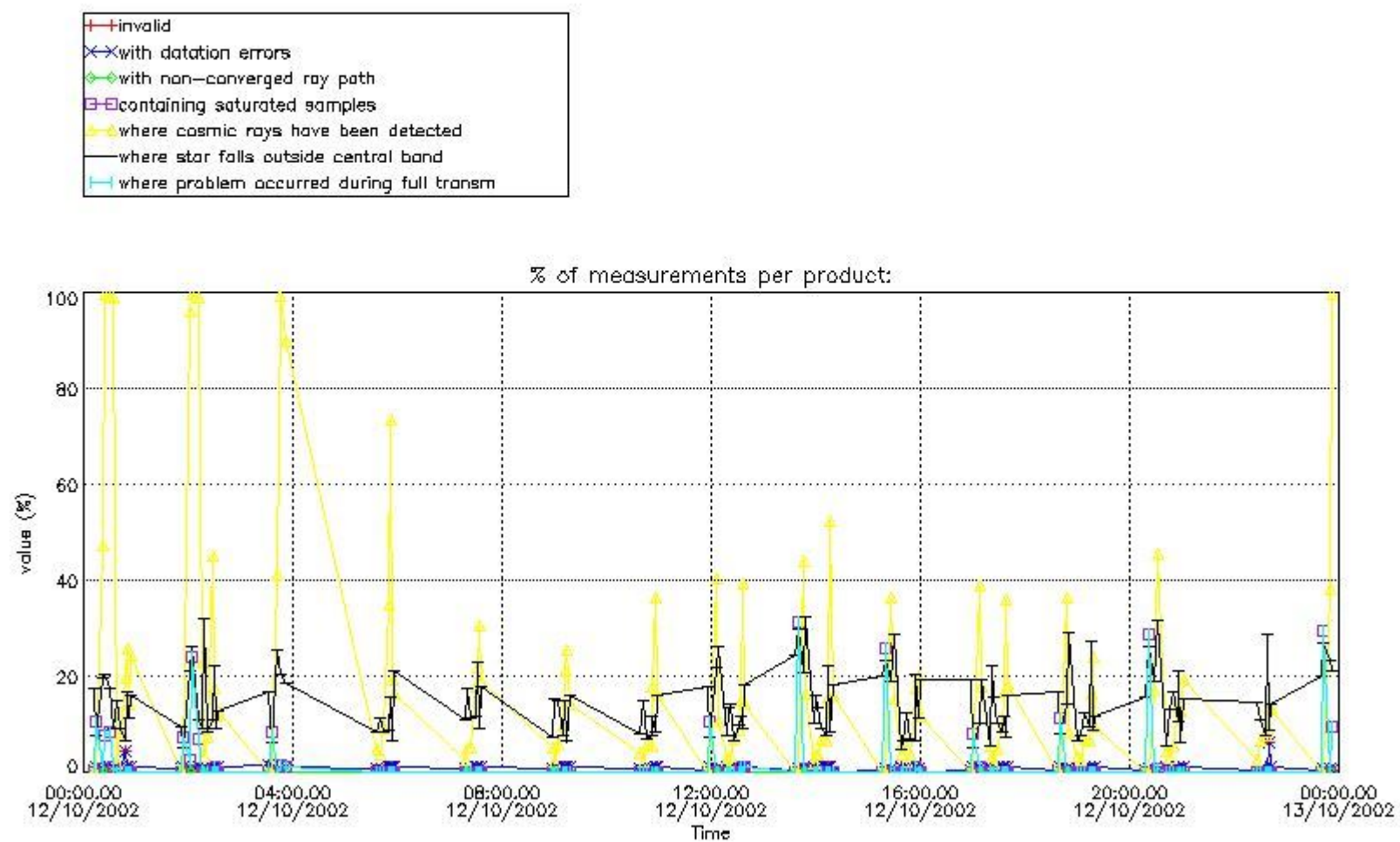


4. Level 1 quality information per product

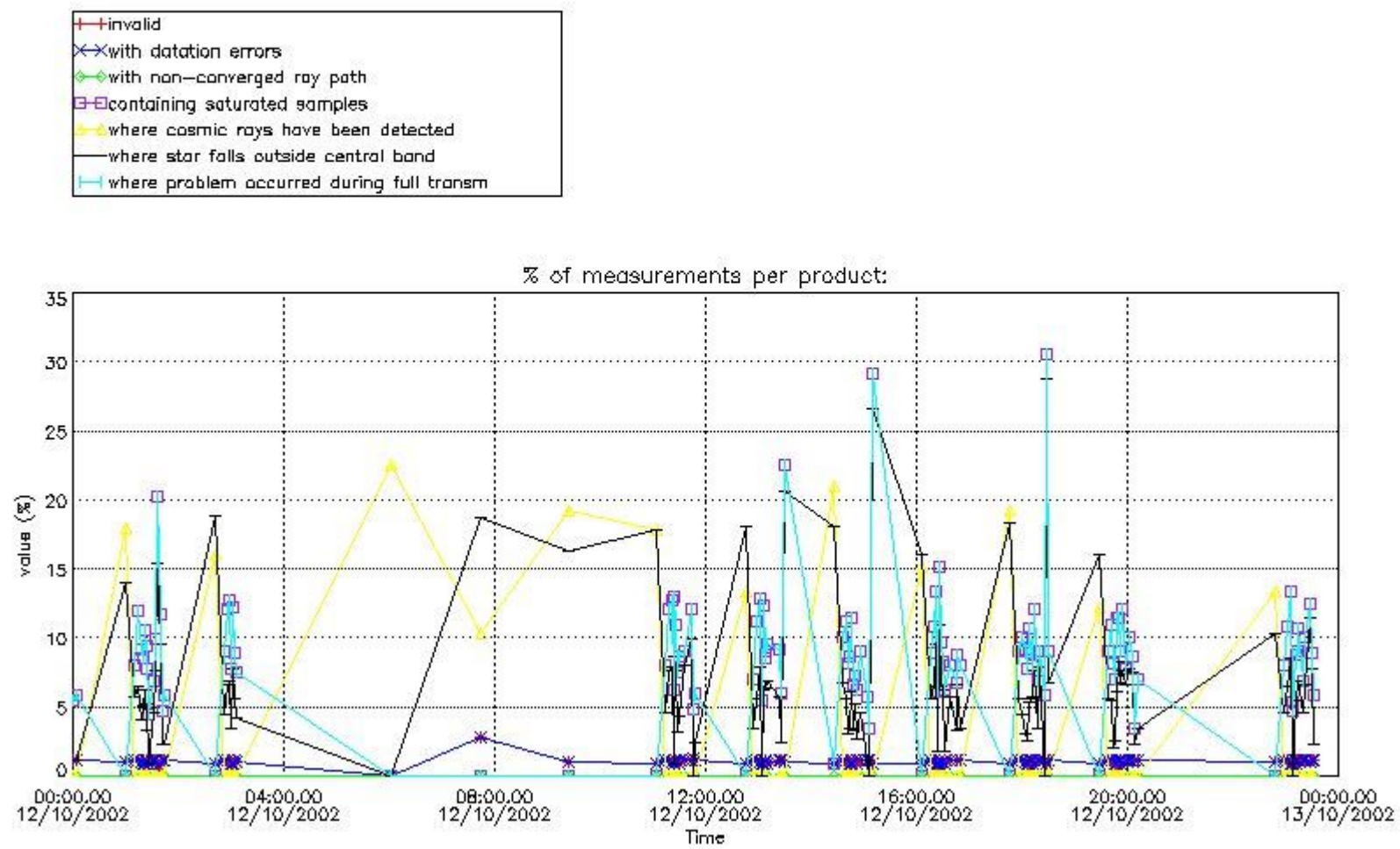
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



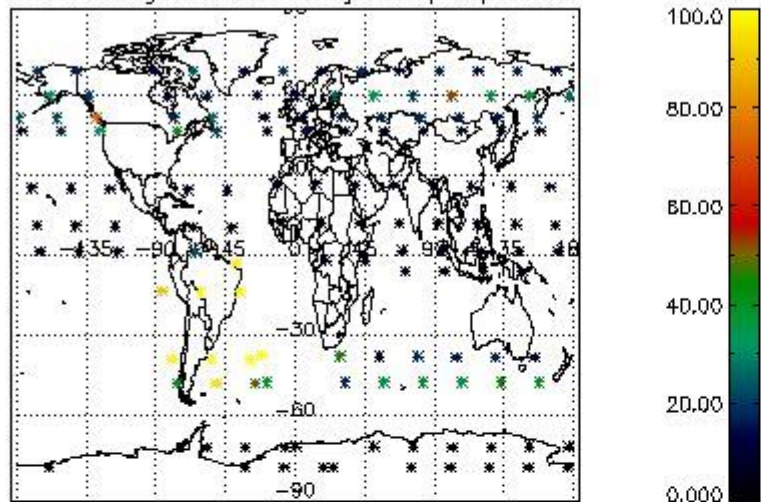
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



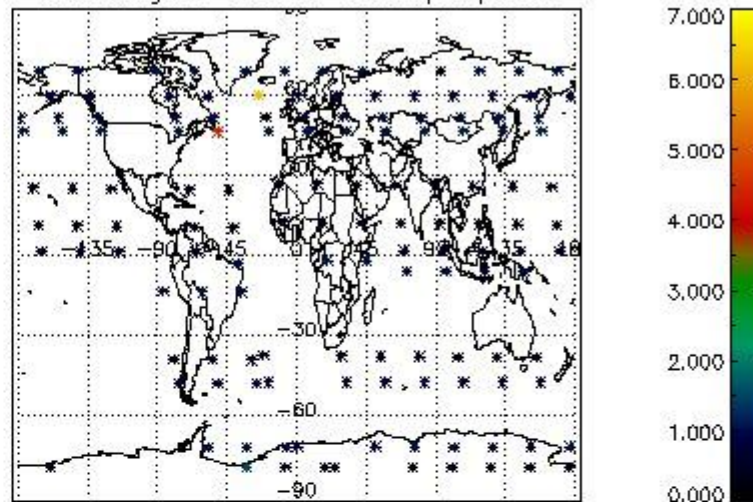
4.2 Plot quality information per product coming from level 1b processing (world map)

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

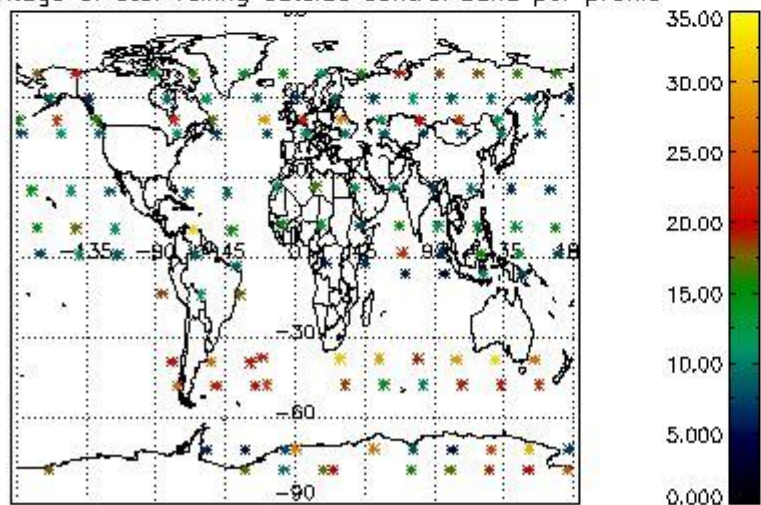
Percentage of cosmic ray hits per profile



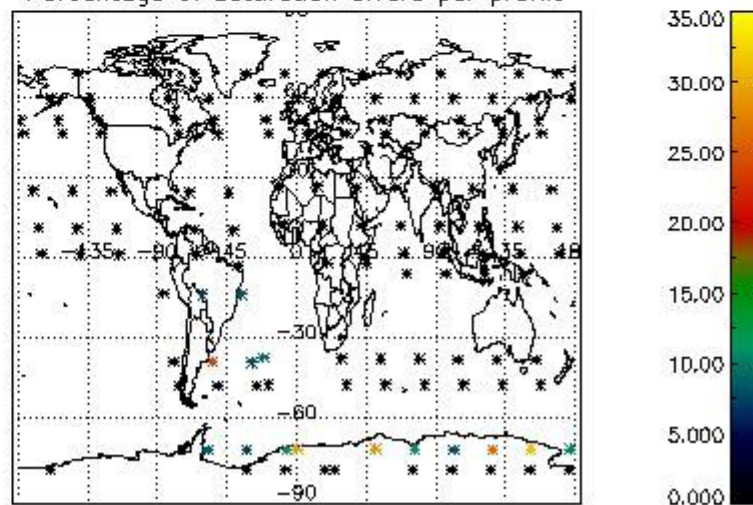
Percentage of datation errors per profile



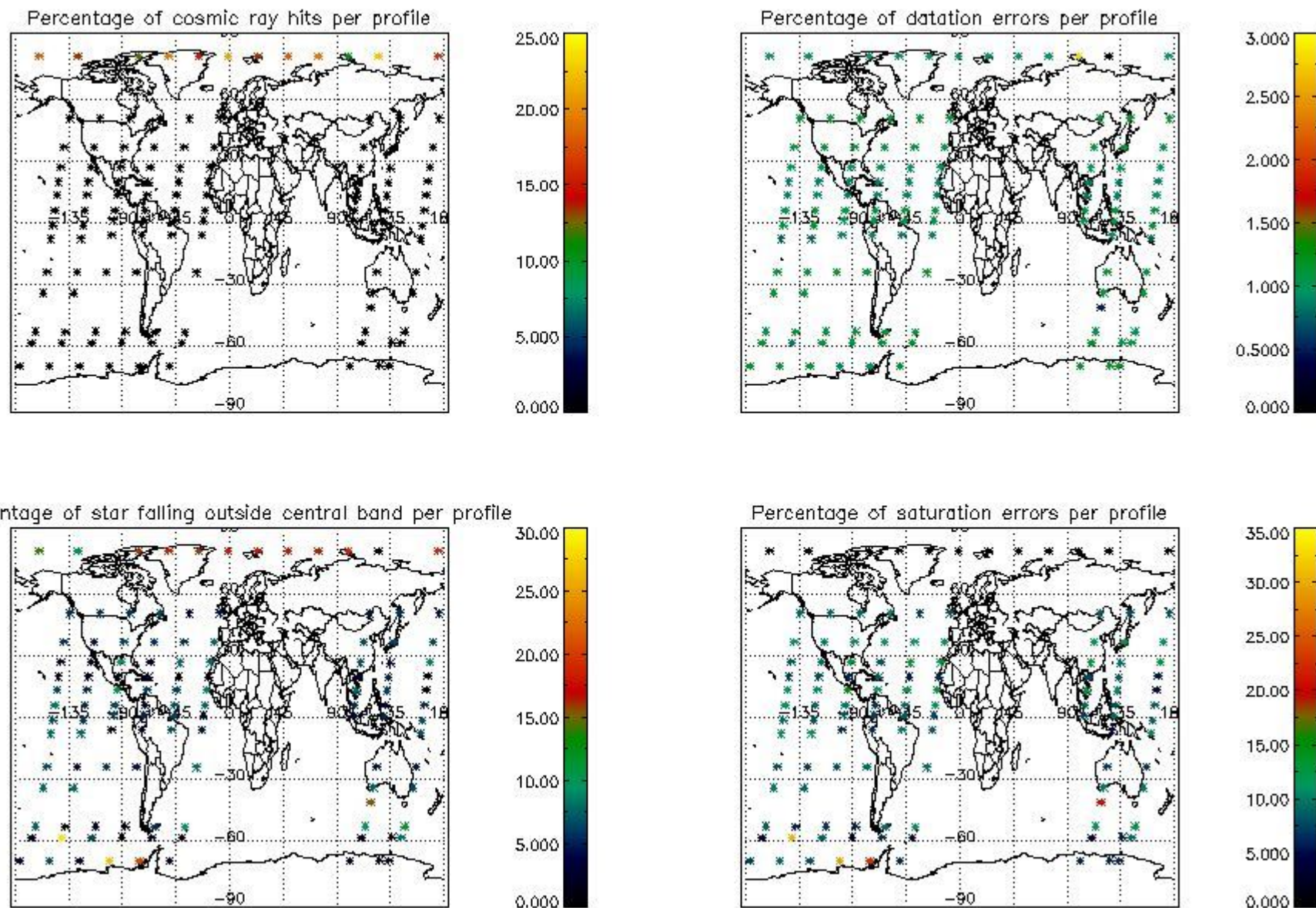
Percentage of star falling outside central band per profile



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

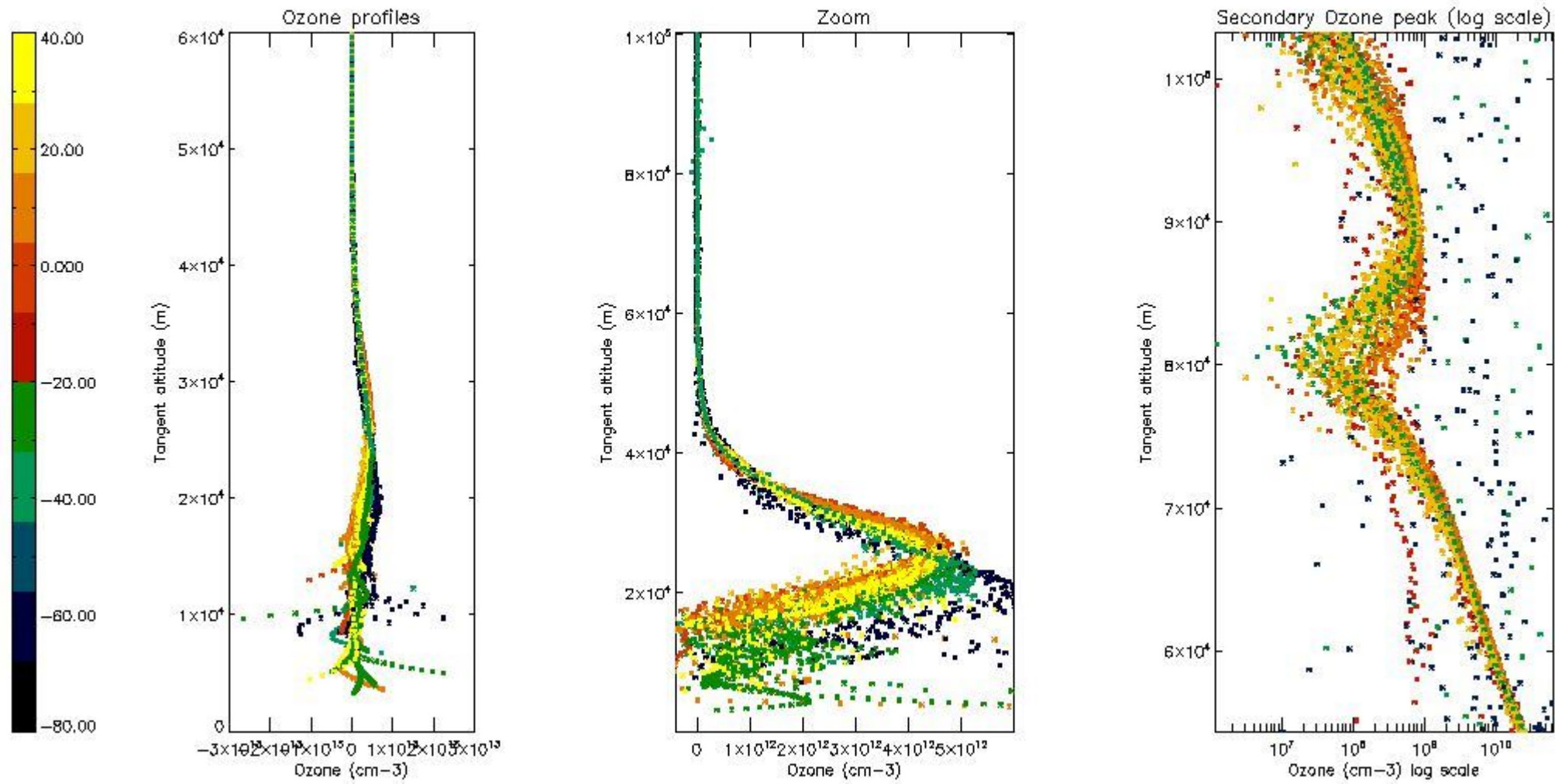
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	51
STD < 20	30

STD < 10	27
STD < 5	23

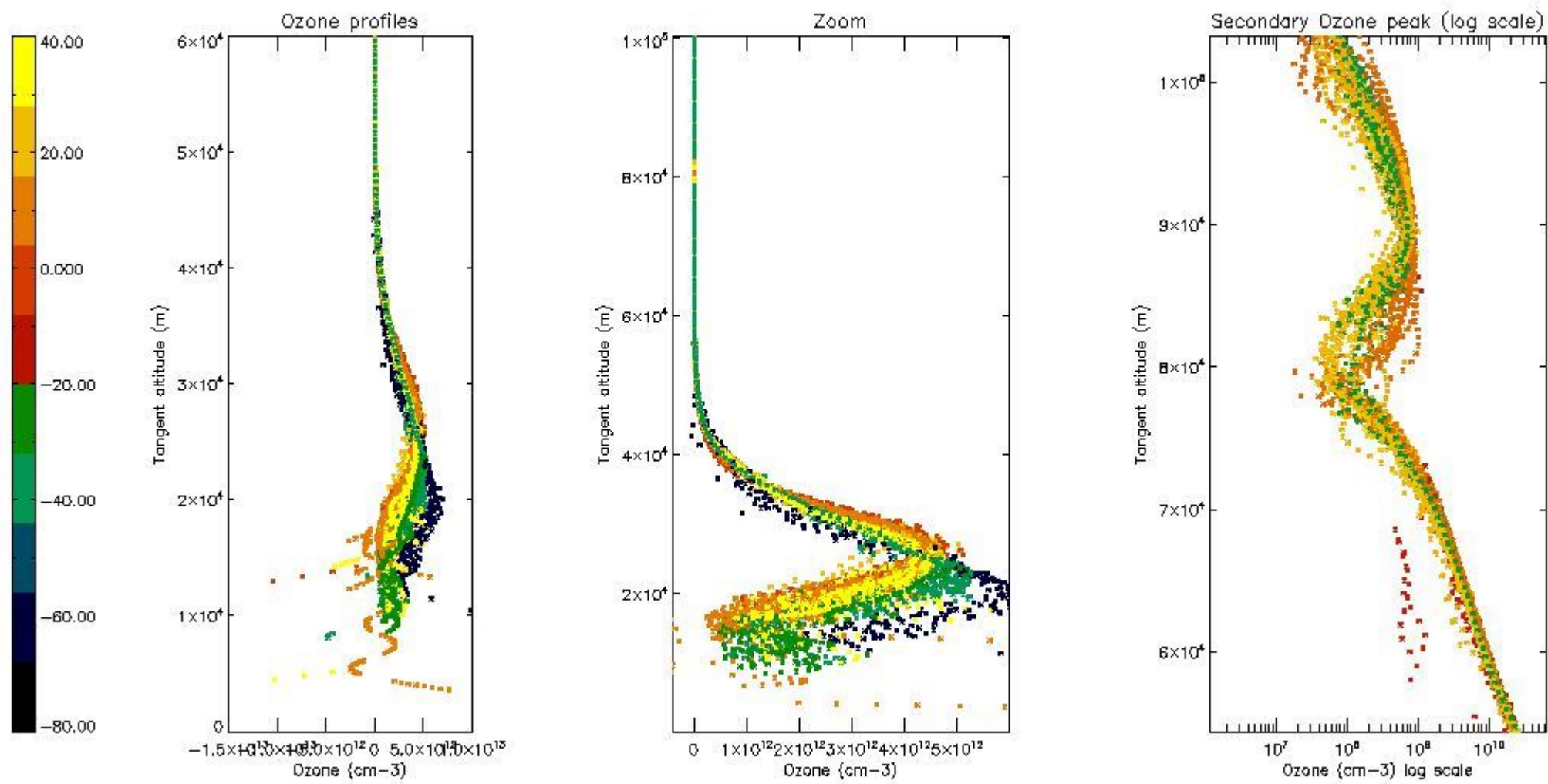
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



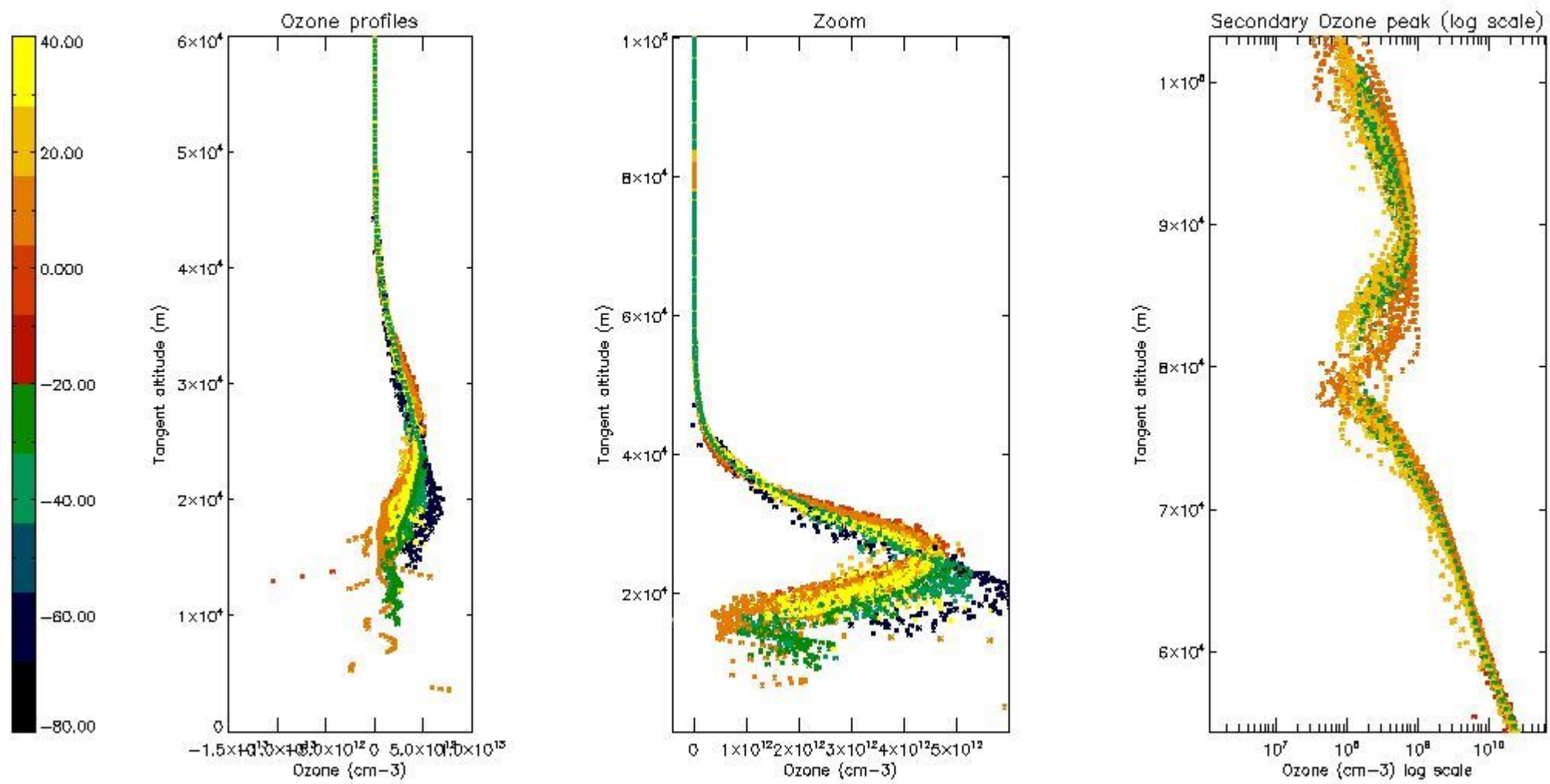
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



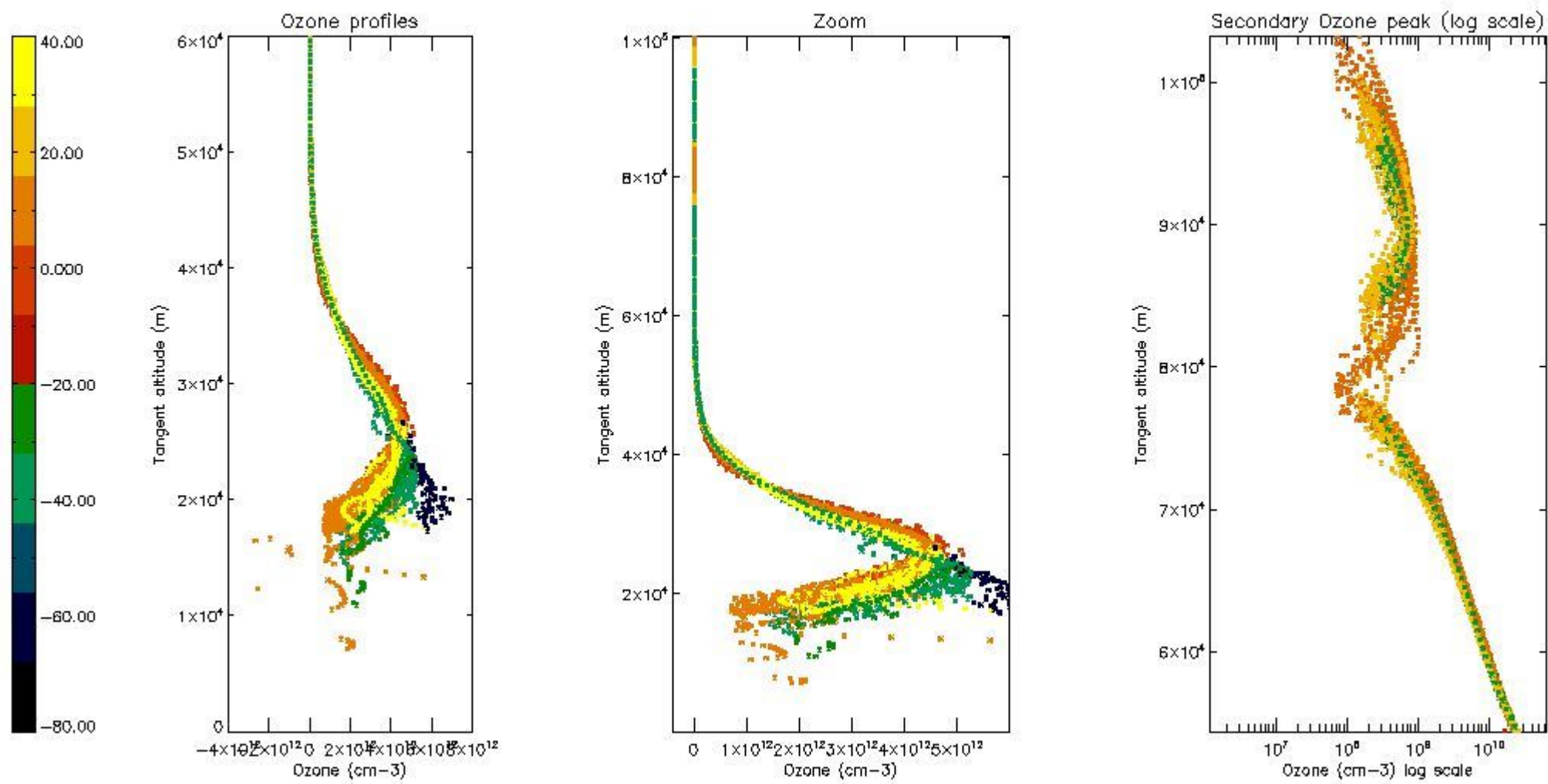
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



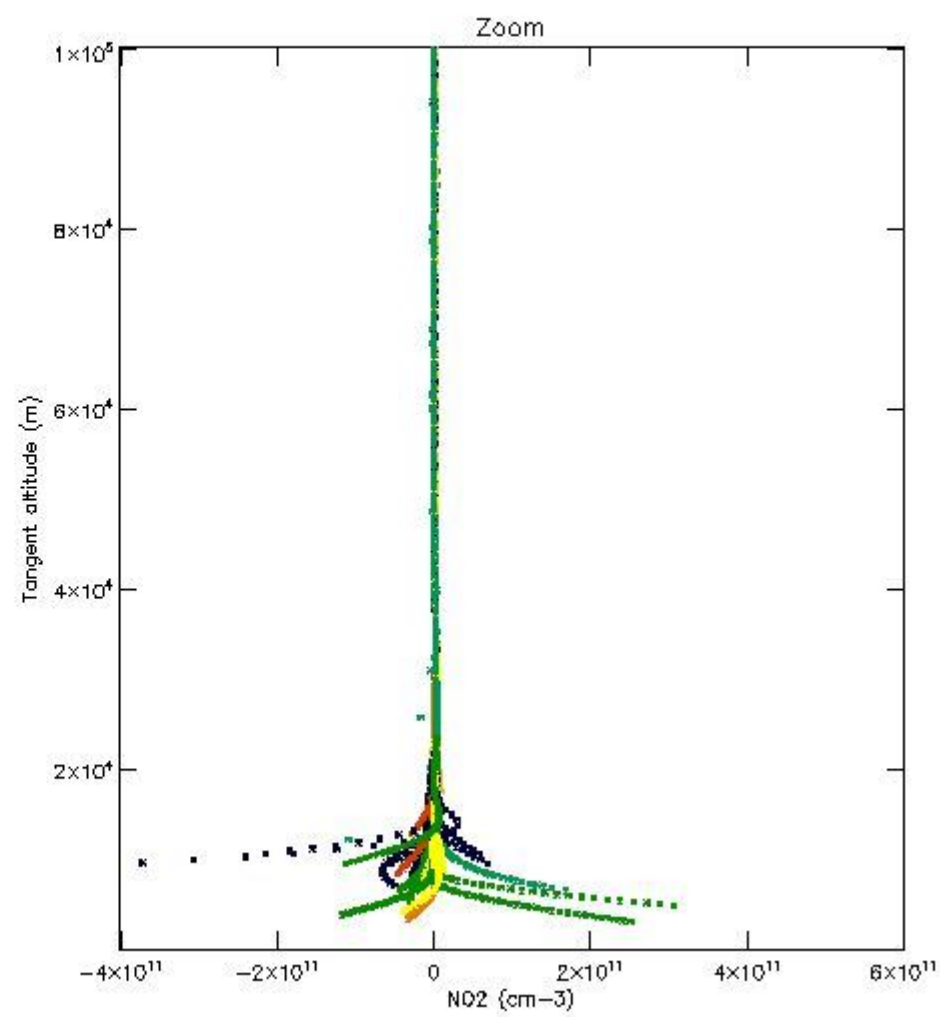
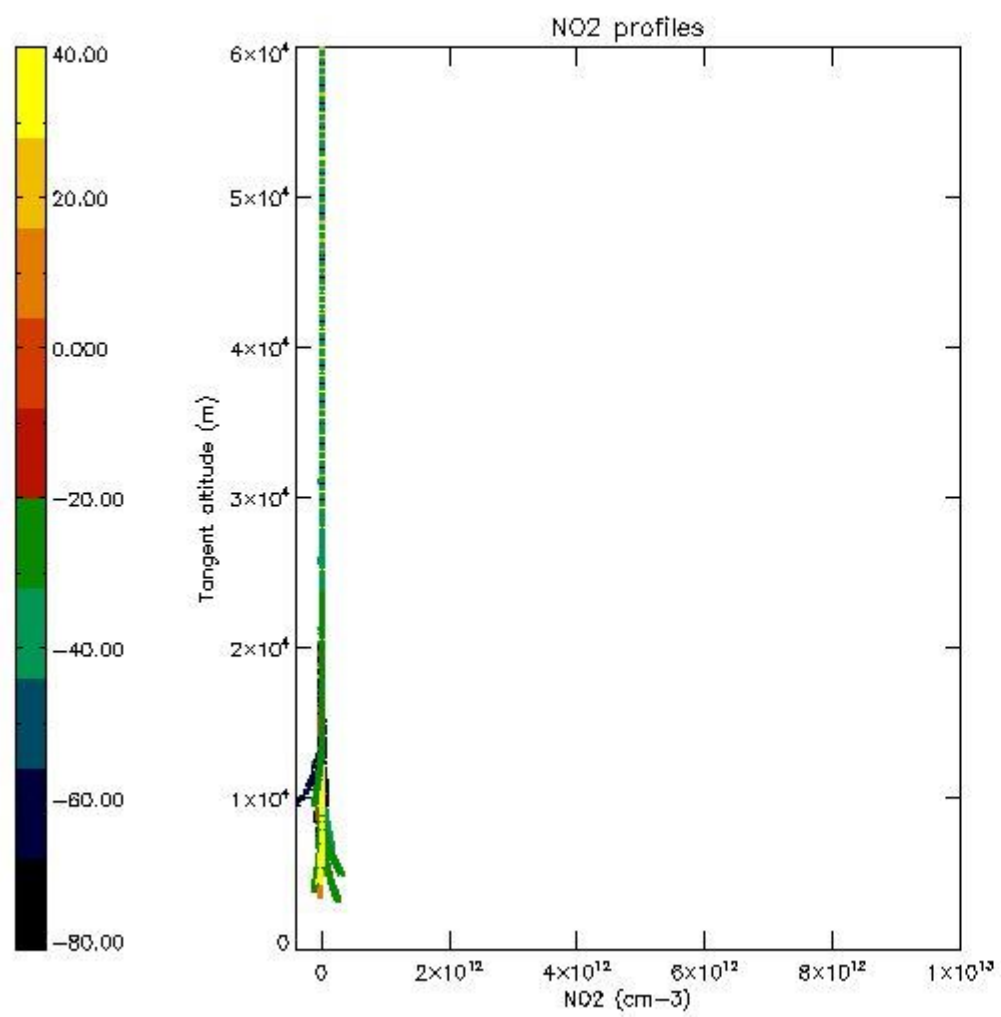
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



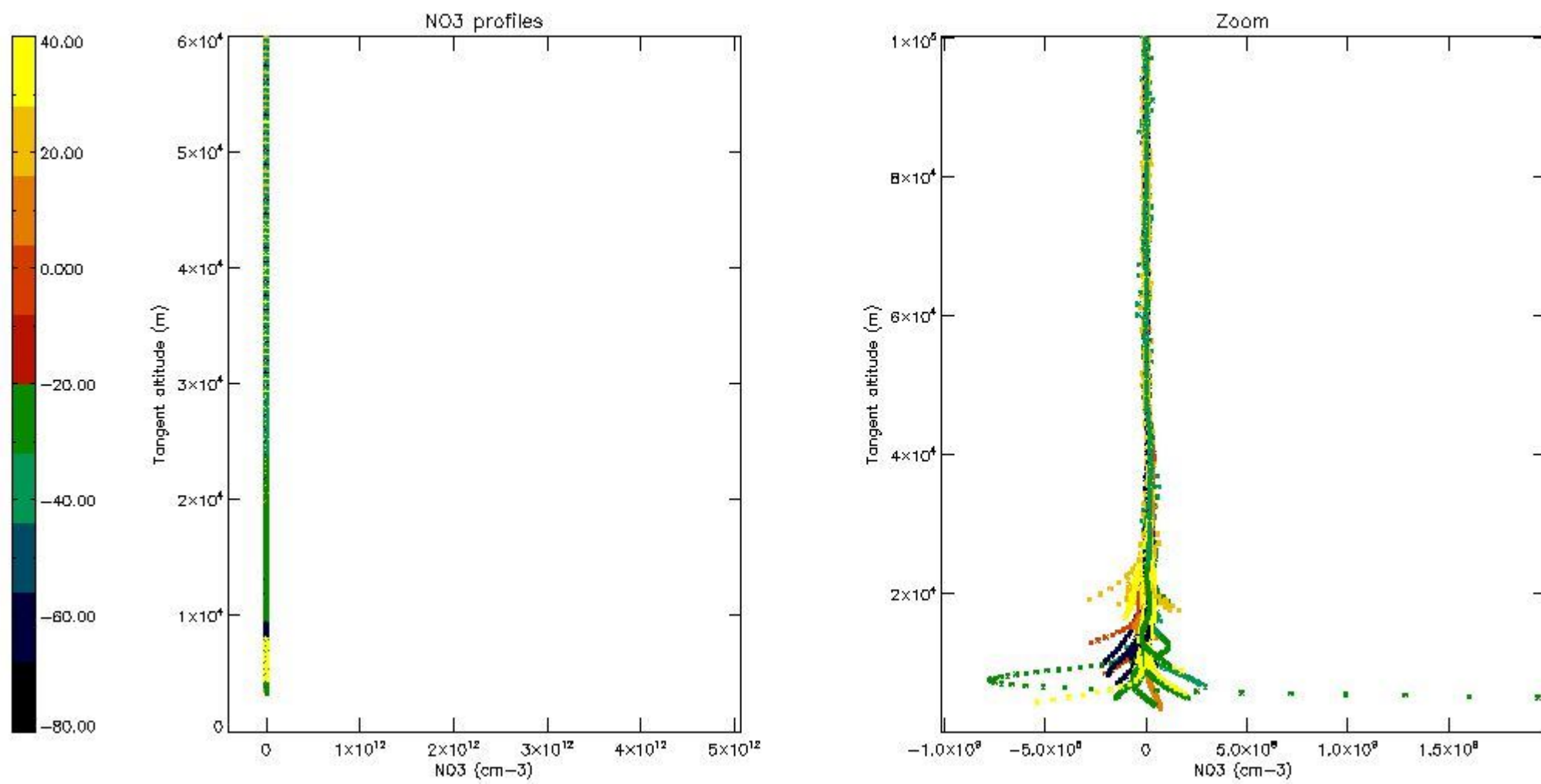
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



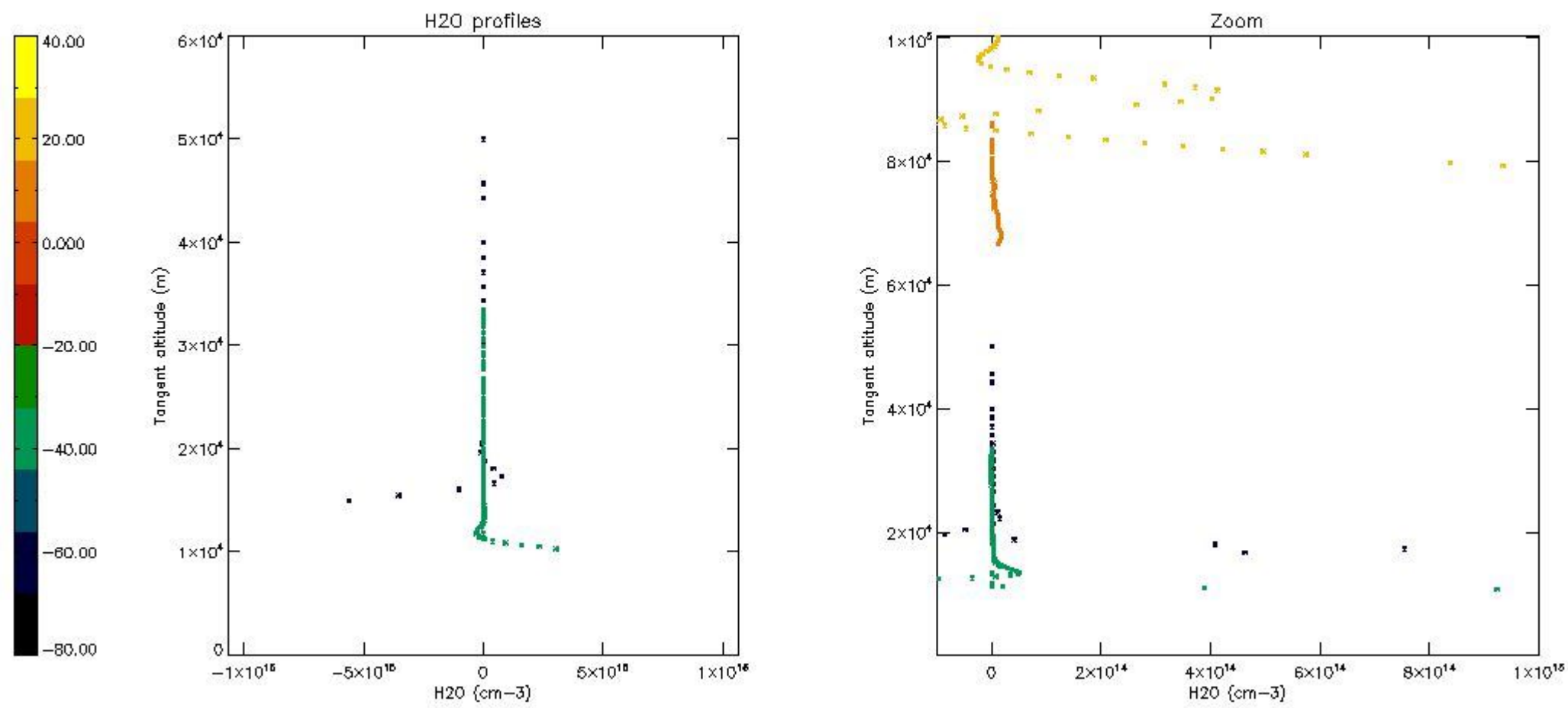
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	12-OCT-2002 00:00:51
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	12-OCT-2002 00:00:51
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	12-OCT-2002 00:00:51

GOMOS Level 2 Daily Report

SUMMARY

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[2. Summary of processed GOM_NL_2P products](#)

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

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[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](#)

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[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](#)

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[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	17APR2013 19:22:37
Data source version	GOMOS/6.01
Start time of products	12-10-2002 (12OCT2002 00:00:00)
Stop time of products	13-10-2002 (13OCT2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	258
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

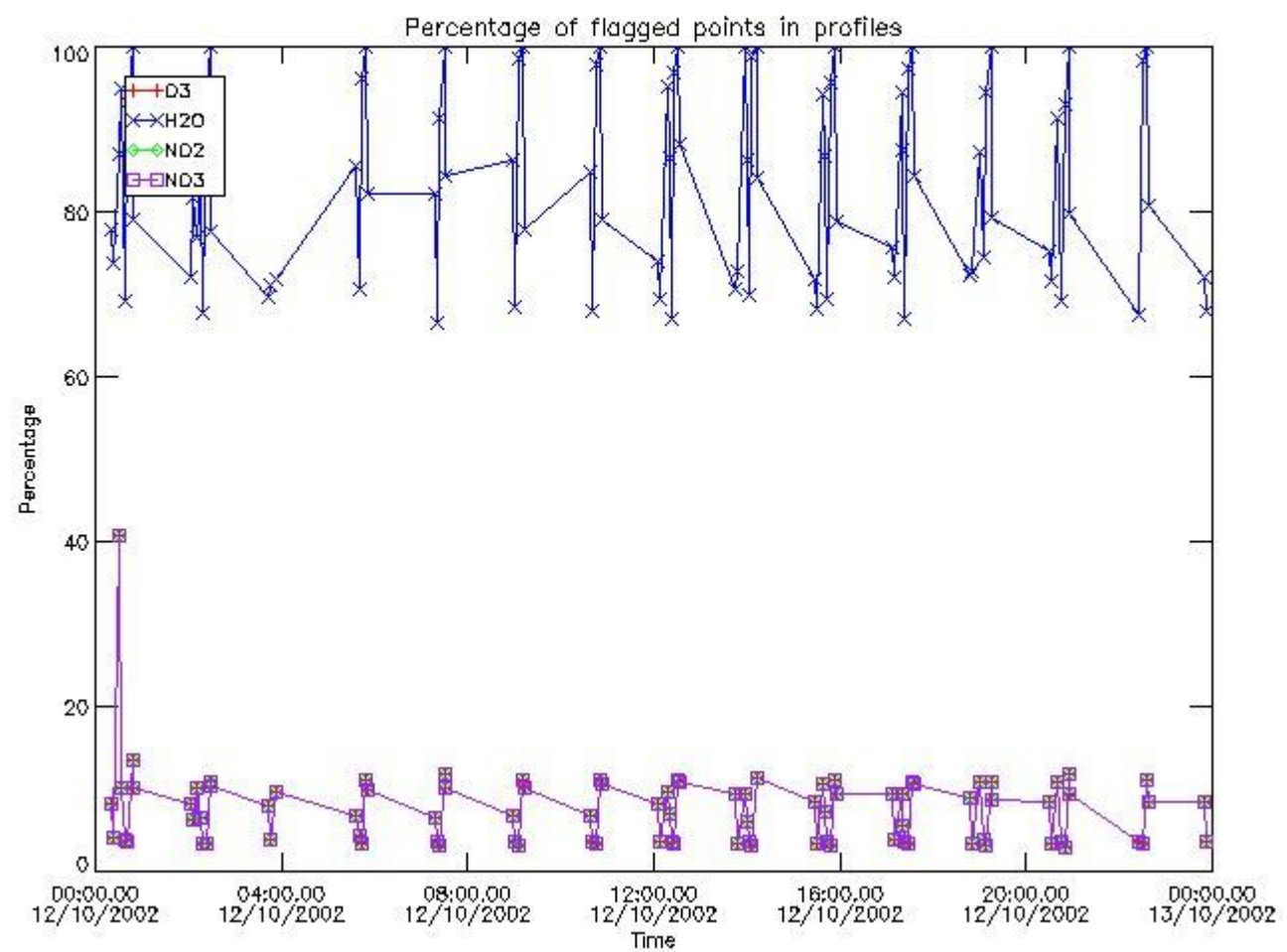
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20021012_000051_000000462010_00159_03219_2459.N1	12-OCT-2002 00:00:51	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	3219	No
2	GOM_NL__2PRFIN20021012_000413_000000432010_00159_03219_2460.N1	12-OCT-2002 00:04:13	Bright	43.000	174	52Psi UMa	3.0040	4400.0	86	3219	No
3	GOM_NL__2PRFIN20021012_001132_000000982010_00159_03219_2461.N1	12-OCT-2002 00:11:32	Bright	97.500	17	78Bet Gem	1.1610	4500.0	195	3219	No
4	GOM_NL__2PRFIN20021012_001412_000000522010_00159_03219_2462.N1	12-OCT-2002 00:14:12	Bright	51.500	22	32Alp Leo	1.3600	15200.	103	3219	No
5	GOM_NL__2PRFIN20021012_002118_000000622010_00159_03219_2463.N1	12-OCT-2002 00:21:18	Dark	61.500	48	30Alp Hya	1.9770	4100.0	123	3219	No
6	GOM_NL__2PRFIN20021012_002346_000001292010_00159_03219_2464.N1	12-OCT-2002 00:23:46	Dark	128.50	8	10Alp CMi	0.40000	6500.0	257	3219	No
7	GOM_NL__2PRFIN20021012_003057_000000552010_00159_03219_2465.N1	12-OCT-2002 00:30:57	Dark	54.500	65	Lam Vel	2.2040	4400.0	109	3219	No
8	GOM_NL__2PRFIN20021012_003358_000000512010_00159_03219_2466.N1	12-OCT-2002 00:33:58	Dark	50.500	34	Gam2Vel	1.7930	23000.	101	3219	No
9	GOM_NL__2PRFIN20021012_003739_000001372010_00160_03220_2440.N1	12-OCT-2002 00:37:39	Dark	137.00	1	9Alp CMa	-1.4400	11000.	274	3220	No
10	GOM_NL__2PRFIN20021012_004135_000001572010_00160_03220_2441.N1	12-OCT-2002 00:41:35	Dark	156.50	47	2Bet CMa	1.9760	28000.	313	3220	No
11	GOM_NL__2PRFIN20021012_004746_000000462010_00160_03220_2442.N1	12-OCT-2002 00:47:46	Dark	45.500	143	Alp Hyi	2.8570	7200.0	91	3220	No
12	GOM_NL__2PRFIN20021012_004914_000000512010_00160_03220_2443.N1	12-OCT-2002 00:49:14	Dark	50.500	9	Alp Eri	0.45300	24000.	101	3220	No
13	GOM_NL__2PRFIN20021012_005133_000000572010_00160_03220_2444.N1	12-OCT-2002 00:51:33	Straylight	57.000	157	The1Eri	2.9060	9300.0	114	3220	No
14	GOM_NL__2PRFIN20021012_005420_000000502010_00160_03220_2445.N1	12-OCT-2002 00:54:20	Straylight	49.500	84	Alp Phe	2.3970	4500.0	99	3220	No
15	GOM_NL__2PRFIN20021012_010059_000000502010_00160_03220_2446.N1	12-OCT-2002 01:00:59	Straylight	50.000	52	16Bet Cet	2.0370	4500.0	100	3220	No
16	GOM_NL__2PRFIN20021012_011046_000000442010_00160_03220_2447.N1	12-OCT-2002 01:10:46	Bright	44.000	140	88Gam Peg	2.8340	26000.	88	3220	No
17	GOM_NL__2PRFIN20021012_011446_000000462010_00160_03220_2448.N1	12-OCT-2002 01:14:46	Bright	46.000	58	21Alp And	2.0730	11000.	92	3220	No
18	GOM_NL__2PRFIN20021012_011734_000000492010_00160_03220_2449.N1	12-OCT-2002 01:17:34	Bright	49.000	53	43Bet And	2.0480	3300.0	98	3220	No
19	GOM_NL__2PRFIN20021012_011935_000000592010_00160_03220_2450.N1	12-OCT-2002 01:19:35	Bright	59.000	173	4Bet Tri	3.0040	8900.0	118	3220	No
20	GOM_NL__2PRFIN20021012_012121_000000572010_00160_03220_2451.N1	12-OCT-2002 01:21:21	Bright	56.500	73	57Gam1And	2.2600	13100.	113	3220	No
21	GOM_NL__2PRFIN20021012_012320_000000452010_00160_03220_2452.N1	12-OCT-2002 01:23:20	Bright	45.000	74	11Bet Cas	2.2680	6600.0	90	3220	No
22	GOM_NL__2PRFIN20021012_012445_000000482010_00160_03220_2453.N1	12-OCT-2002 01:24:45	Bright	48.000	110	37Del Cas	2.6780	8900.0	96	3220	No
23	GOM_NL__2PRFIN20021012_012646_000000562010_00160_03220_2454.N1	12-OCT-2002 01:26:46	Bright	55.500	160	23Gam Per	2.9300	4700.0	111	3220	No
24	GOM_NL__2PRFIN20021012_013146_000000442010_00160_03220_2455.N1	12-OCT-2002 01:31:46	Bright	44.000	49	1Alp UMi	1.9900	6300.0	88	3220	No
25	GOM_NL__2PRFIN20021012_013432_000000462010_00160_03220_2456.N1	12-OCT-2002 01:34:32	Bright	45.500	60	7Bet UMi	2.0810	3950.0	91	3220	No
26	GOM_NL__2PRFIN20021012_013635_000001042010_00160_03220_2457.N1	12-OCT-2002 01:36:35	Bright	103.50	6	13Alp Aur	0.080000	3400.0	207	3220	No
27	GOM_NL__2PRFIN20021012_013957_000000472010_00160_03220_2458.N1	12-OCT-2002 01:39:57	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	3220	No
28	GOM_NL__2PRFIN20021012_014129_000000432010_00160_03220_2459.N1	12-OCT-2002 01:41:29	Bright	43.000	82	48Bet UMa	2.3650	10600.	86	3220	No
29	GOM_NL__2PRFIN20021012_014449_000000432010_00160_03220_2460.N1	12-OCT-2002 01:44:49	Bright	42.500	174	52Psi UMa	3.0040	4400.0	85	3220	No
30	GOM_NL__2PRFIN20021012_015208_000000902010_00160_03220_2461.N1	12-OCT-2002 01:52:08	Bright	90.000	17	78Bet Gem	1.1610	4500.0	180	3220	No
31	GOM_NL__2PRFIN20021012_015450_000000482010_00160_03220_2462.N1	12-OCT-2002 01:54:50	Bright	48.000	22	32Alp Leo	1.3600	15200.	96	3220	No
32	GOM_NL__2PRFIN20021012_020156_000000622010_00160_03220_2463.N1	12-OCT-2002 02:01:56	Dark	61.500	48	30Alp Hya	1.9770	4100.0	123	3220	No
33	GOM_NL__2PRFIN20021012_020424_000001402010_00160_03220_2464.N1	12-OCT-2002 02:04:24	Dark	139.50	8	10Alp CMi	0.40000	6500.0	279	3220	No
34	GOM_NL__2PRFIN20021012_021133_000000502010_00160_03220_2465.N1	12-OCT-2002 02:11:33	Dark	50.000	65	Lam Vel	2.2040	4400.0	100	3220	No
35	GOM_NL__2PRFIN20021012_021539_000000772010_00161_03221_2440.N1	12-OCT-2002 02:15:39	Dark	77.000	37	25Del CMa	1.8300	5900.0	154	3221	No
36	GOM_NL__2PRFIN20021012_021818_000001732010_00161_03221_2441.N1	12-OCT-2002 02:18:18	Dark	172.50	1	9Alp CMa	-1.4400	11000.	345	3221	No
37	GOM_NL__2PRFIN20021012_022214_000001562010_00161_03221_2442.N1	12-OCT-2002 02:22:14	Dark	156.00	47	2Bet CMa	1.9760	28000.	312	3221	No
38	GOM_NL__2PRFIN20021012_022823_000000472010_00161_03221_2443.N1	12-OCT-2002 02:28:23	Dark	46.500	143	Alp Hyi	2.8570	7200.0	93	3221	No
39	GOM_NL__2PRFIN20021012_022950_000000542010_00161_03221_2444.N1	12-OCT-2002 02:29:50	Dark	54.000	9	Alp Eri	0.45300	24000.	108	3221	No
40	GOM_NL__2PRFIN20021012_023210_000000562010_00161_03221_2445.N1	12-OCT-2002 02:32:10	Straylight	56.000	157	The1Eri	2.9060	9300.0	112	3221	No
41	GOM_NL__2PRFIN20021012_023456_000000472010_00161_03221_2446.N1	12-OCT-2002 02:34:56	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	3221	No
42	GOM_NL__2PRFIN20021012_024135_000000532010_00161_03221_2447.N1	12-OCT-2002 02:41:35	Straylight	53.000	52	16Bet Cet	2.0370	4500.0	106	3221	No

220	GOM_NL__2PRFIN20021012_200110_000000452010_00171_03231_2474.N1	12-OCT-2002 20:01:10	Bright	45.000	60	7Bet UMi	2.0810	3950.0	90	3231	No
221	GOM_NL__2PRFIN20021012_200632_000000472010_00171_03231_2475.N1	12-OCT-2002 20:06:32	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	3231	No
222	GOM_NL__2PRFIN20021012_200805_000000432010_00171_03231_2476.N1	12-OCT-2002 20:08:05	Bright	43.000	82	48Bet UMa	2.3650	10600.	86	3231	No
223	GOM_NL__2PRFIN20021012_201126_000000432010_00171_03231_2477.N1	12-OCT-2002 20:11:26	Bright	43.000	174	52Psi UMa	3.0040	4400.0	86	3231	No
224	GOM_NL__2PRFIN20021012_201848_000000992010_00171_03231_2478.N1	12-OCT-2002 20:18:48	Bright	98.500	17	78Bet Gem	1.1610	4500.0	197	3231	No
225	GOM_NL__2PRFIN20021012_202129_000000632010_00171_03231_2479.N1	12-OCT-2002 20:21:29	Bright	63.000	22	32Alp Leo	1.3600	15200.	126	3231	No
226	GOM_NL__2PRFIN20021012_202837_000000612010_00171_03231_2480.N1	12-OCT-2002 20:28:37	Dark	61.000	48	30Alp Hya	1.9770	4100.0	122	3231	No
227	GOM_NL__2PRFIN20021012_203123_000001572010_00171_03231_2481.N1	12-OCT-2002 20:31:23	Dark	157.00	8	10Alp CMi	0.40000	6500.0	314	3231	No
228	GOM_NL__2PRFIN20021012_204125_000000472010_00171_03231_2482.N1	12-OCT-2002 20:41:25	Dark	46.500	46	Del Vel	1.9540	10600.	93	3231	No
229	GOM_NL__2PRFIN20021012_204524_000001412010_00172_03232_8939.N1	12-OCT-2002 20:45:24	Dark	141.00	1	9Alp CMa	-1.4400	11000.	282	3232	No
230	GOM_NL__2PRFIN20021012_204925_000001782010_00172_03232_8940.N1	12-OCT-2002 20:49:25	Dark	177.50	47	2Bet CMa	1.9760	28000.	355	3232	No
231	GOM_NL__2PRFIN20021012_205501_000000482010_00172_03232_8941.N1	12-OCT-2002 20:55:01	Dark	47.500	143	Alp Hyi	2.8570	7200.0	95	3232	No
232	GOM_NL__2PRFIN20021012_205628_000000552010_00172_03232_8942.N1	12-OCT-2002 20:56:28	Dark	54.500	9	Alp Eri	0.45300	24000.	109	3232	No
233	GOM_NL__2PRFIN20021012_205849_000000562010_00172_03232_8943.N1	12-OCT-2002 20:58:49	Straylight	55.500	157	The1Eri	2.9060	9300.0	111	3232	No
234	GOM_NL__2PRFIN20021012_210133_000000502010_00172_03232_8944.N1	12-OCT-2002 21:01:33	Straylight	49.500	84	Alp Phe	2.3970	4500.0	99	3232	No
235	GOM_NL__2PRFIN20021012_222603_000001432010_00173_03233_8939.N1	12-OCT-2002 22:26:03	Dark	143.00	1	9Alp CMa	-1.4400	11000.	286	3233	No
236	GOM_NL__2PRFIN20021012_223004_000001692010_00173_03233_8940.N1	12-OCT-2002 22:30:04	Dark	168.50	47	2Bet CMa	1.9760	28000.	337	3233	No
237	GOM_NL__2PRFIN20021012_223537_000000462010_00173_03233_8941.N1	12-OCT-2002 22:35:37	Dark	46.000	143	Alp Hyi	2.8570	7200.0	92	3233	No
238	GOM_NL__2PRFIN20021012_223704_000000602010_00173_03233_8942.N1	12-OCT-2002 22:37:04	Dark	59.500	9	Alp Eri	0.45300	24000.	119	3233	No
239	GOM_NL__2PRFIN20021012_223926_000000572010_00173_03233_2460.N1	12-OCT-2002 22:39:26	Straylight	56.500	157	The1Eri	2.9060	9300.0	113	3233	No
240	GOM_NL__2PRFIN20021012_224209_000000492010_00173_03233_2461.N1	12-OCT-2002 22:42:09	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	3233	No
241	GOM_NL__2PRFIN20021012_224847_000000492010_00173_03233_2462.N1	12-OCT-2002 22:48:47	Straylight	48.500	52	16Bet Cet	2.0370	4500.0	97	3233	No
242	GOM_NL__2PRFIN20021012_225833_000000442010_00173_03233_2463.N1	12-OCT-2002 22:58:33	Bright	44.000	140	88Gam Peg	2.8340	26000.	88	3233	No
243	GOM_NL__2PRFIN20021012_230231_000000462010_00173_03233_2464.N1	12-OCT-2002 23:02:31	Bright	46.000	58	21Alp And	2.0730	11000.	92	3233	No
244	GOM_NL__2PRFIN20021012_230515_000000532010_00173_03233_2465.N1	12-OCT-2002 23:05:15	Bright	52.500	53	43Bet And	2.0480	3300.0	105	3233	No
245	GOM_NL__2PRFIN20021012_230710_000000562010_00173_03233_2466.N1	12-OCT-2002 23:07:10	Bright	56.000	173	4Bet Tri	3.0040	8900.0	112	3233	No
246	GOM_NL__2PRFIN20021012_230858_000000532010_00173_03233_2467.N1	12-OCT-2002 23:08:58	Bright	52.500	73	57Gam1And	2.2600	13100.	105	3233	No
247	GOM_NL__2PRFIN20021012_231105_000000462010_00173_03233_2468.N1	12-OCT-2002 23:11:05	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	3233	No
248	GOM_NL__2PRFIN20021012_231310_000000442010_00173_03233_2469.N1	12-OCT-2002 23:13:10	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	3233	No
249	GOM_NL__2PRFIN20021012_231455_000000662010_00173_03233_2470.N1	12-OCT-2002 23:14:55	Bright	65.500	35	33Alp Per	1.7950	6250.0	131	3233	No
250	GOM_NL__2PRFIN20021012_231932_000000442010_00173_03233_2471.N1	12-OCT-2002 23:19:32	Bright	44.000	49	1Alp UMi	1.9900	6300.0	88	3233	No
251	GOM_NL__2PRFIN20021012_232222_000000452010_00173_03233_2472.N1	12-OCT-2002 23:22:22	Bright	45.000	60	7Bet UMi	2.0810	3950.0	90	3233	No
252	GOM_NL__2PRFIN20021012_232743_000000482010_00173_03233_2473.N1	12-OCT-2002 23:27:43	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	3233	No
253	GOM_NL__2PRFIN20021012_232917_000000452010_00173_03233_2474.N1	12-OCT-2002 23:29:17	Bright	45.000	82	48Bet UMa	2.3650	10600.	90	3233	No
254	GOM_NL__2PRFIN20021012_233238_000000432010_00173_03233_2475.N1	12-OCT-2002 23:32:38	Bright	42.500	174	52Psi UMa	3.0040	4400.0	85	3233	No
255	GOM_NL__2PRFIN20021012_234000_000001032010_00173_03233_2476.N1	12-OCT-2002 23:40:00	Bright	103.00	17	78Bet Gem	1.1610	4500.0	206	3233	No
256	GOM_NL__2PRFIN20021012_234241_000000632010_00173_03233_2477.N1	12-OCT-2002 23:42:41	Bright	63.000	22	32Alp Leo	1.3600	15200.	126	3233	No
257	GOM_NL__2PRFIN20021012_234948_000000672010_00173_03233_2478.N1	12-OCT-2002 23:49:48	Dark	66.500	48	30Alp Hya	1.9770	4100.0	133	3233	No
258	GOM_NL__2PRFIN20021012_235239_000001392010_00173_03233_2479.N1	12-OCT-2002 23:52:39	Dark	139.00	8	10Alp CMi	0.40000	6500.0	278	3233	No

3. Quality information per product

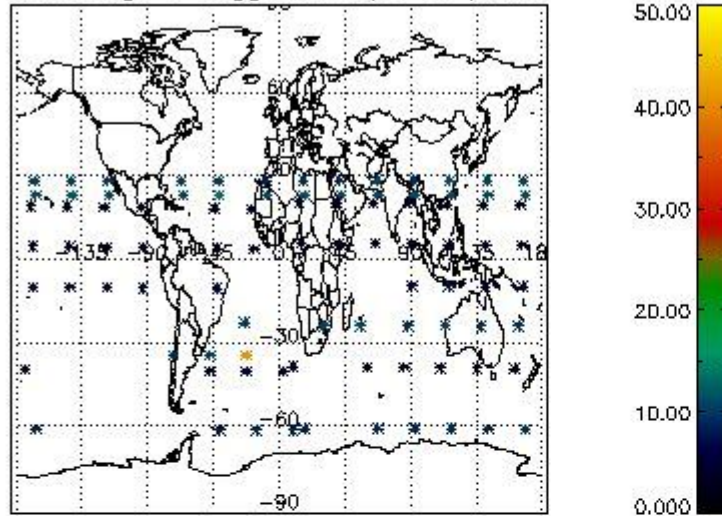
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

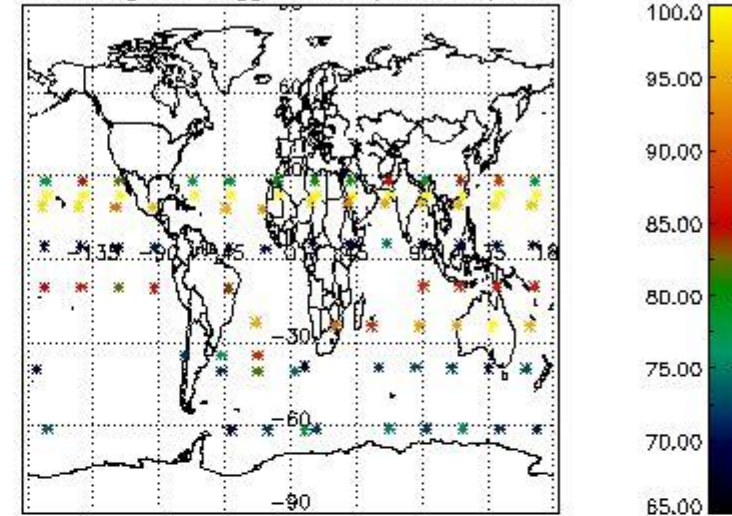


3.2 Plot quality information per product (world map)

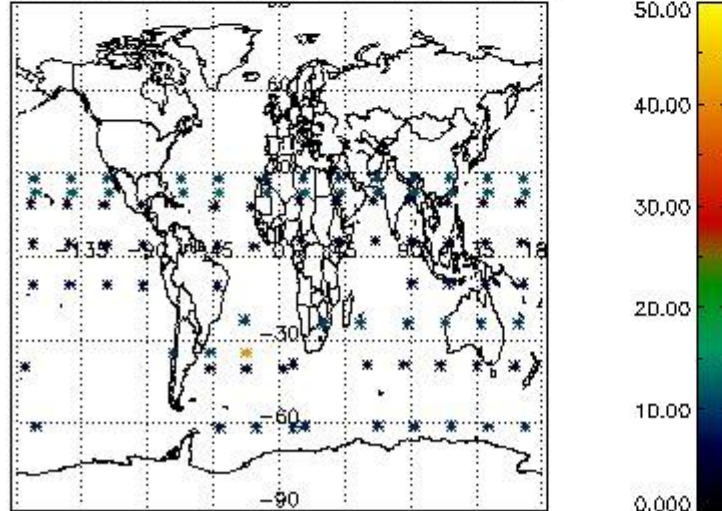
Percentage of flagged data per O3 profile



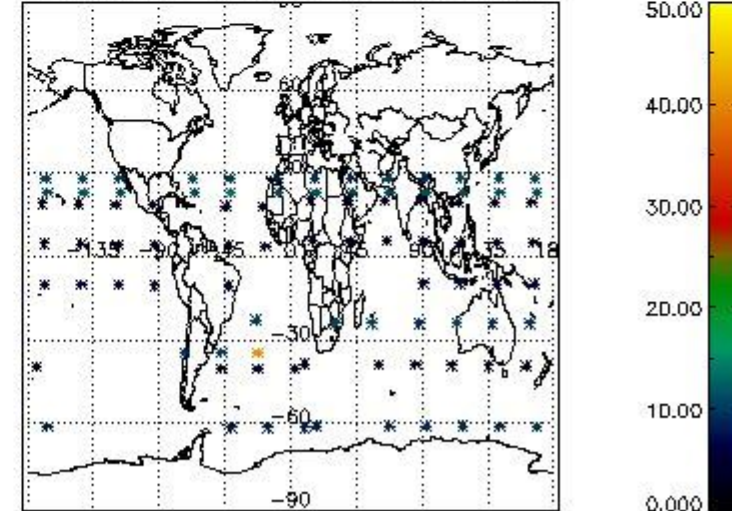
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

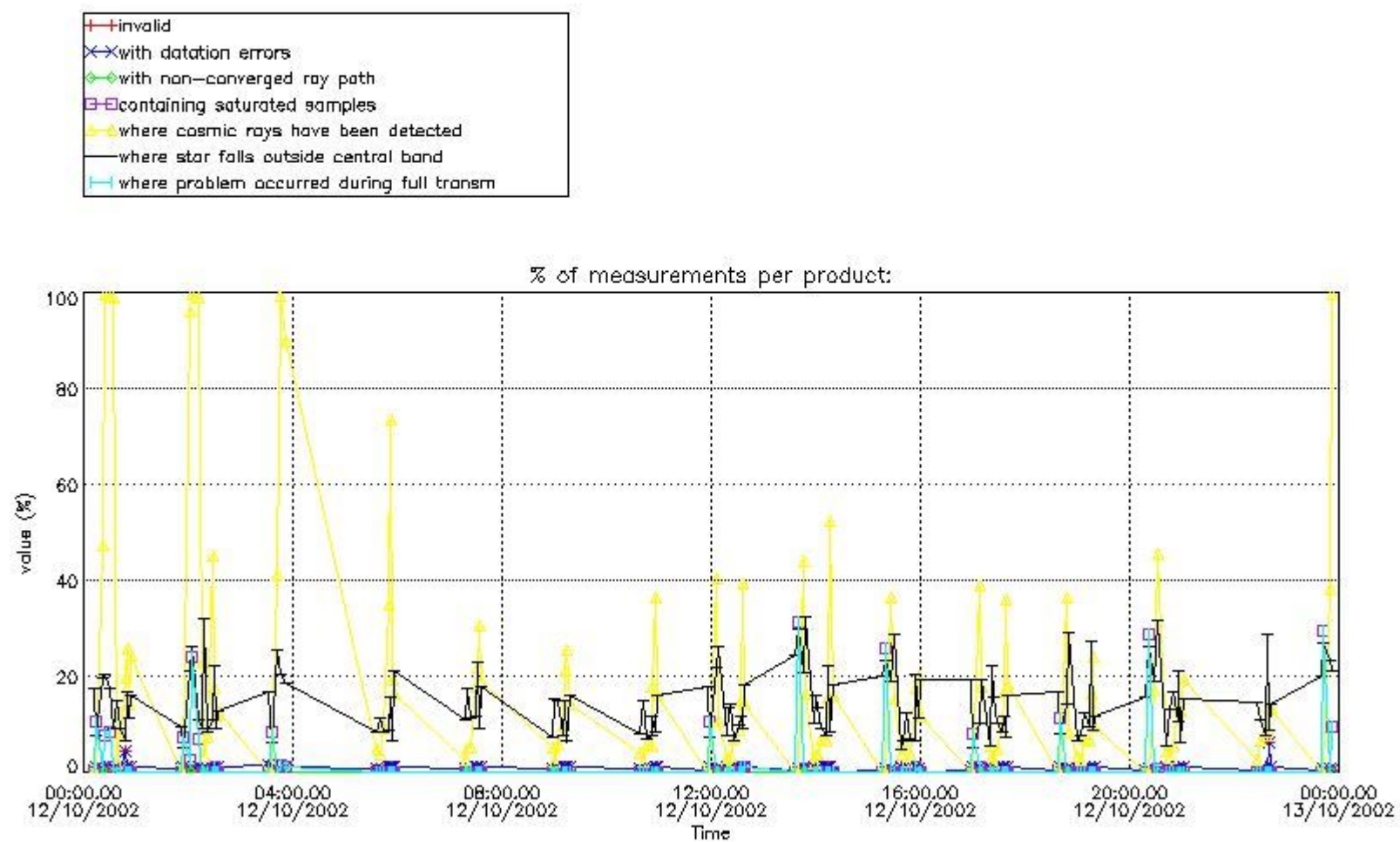


4. Level 1 quality information per product

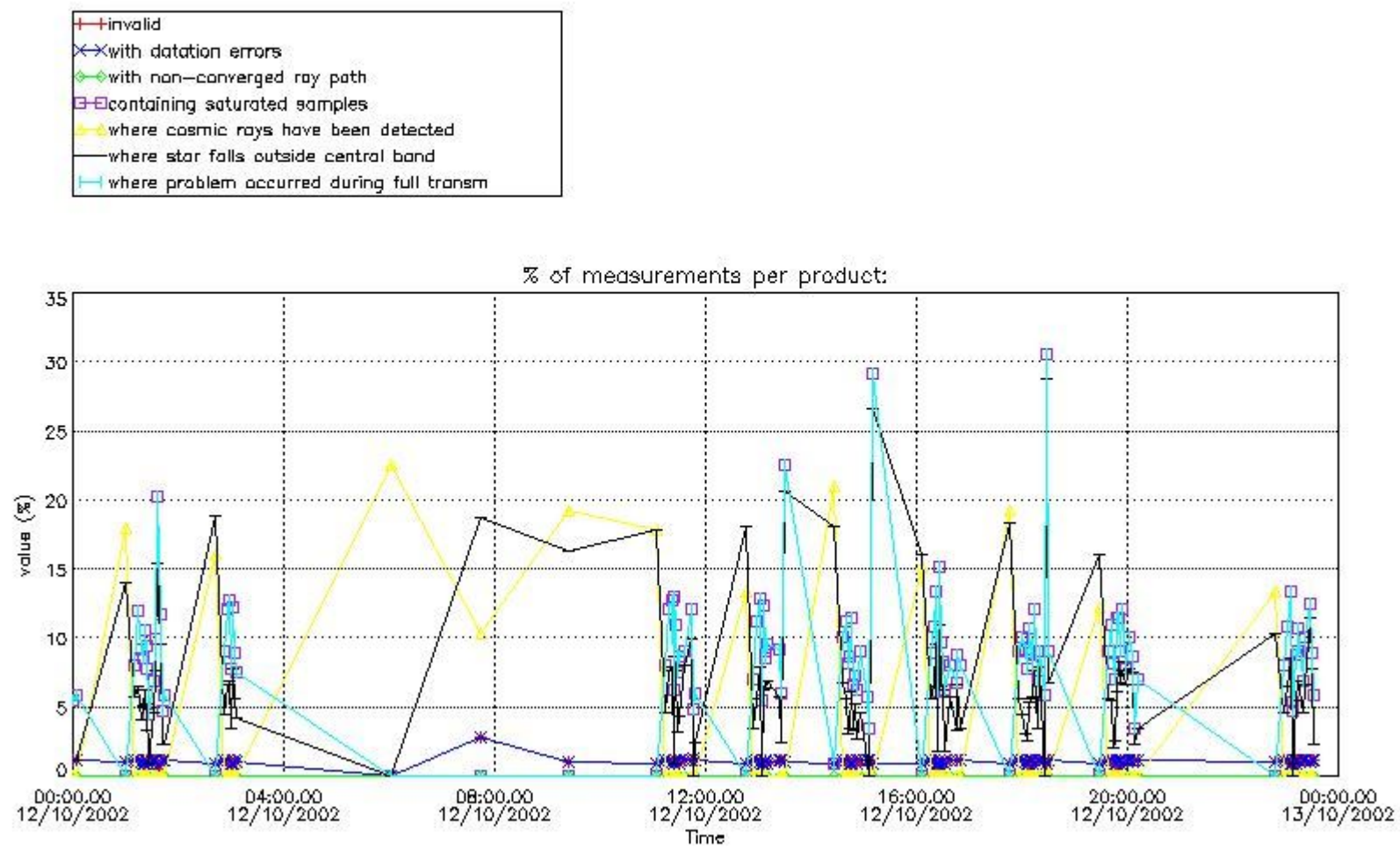
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



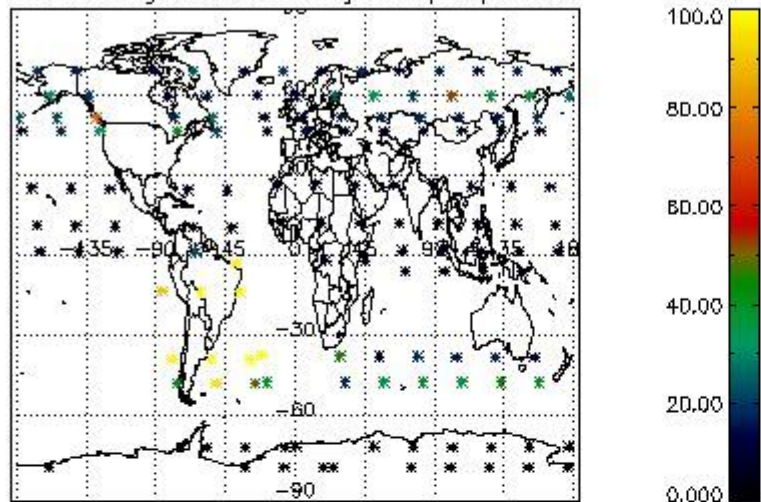
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



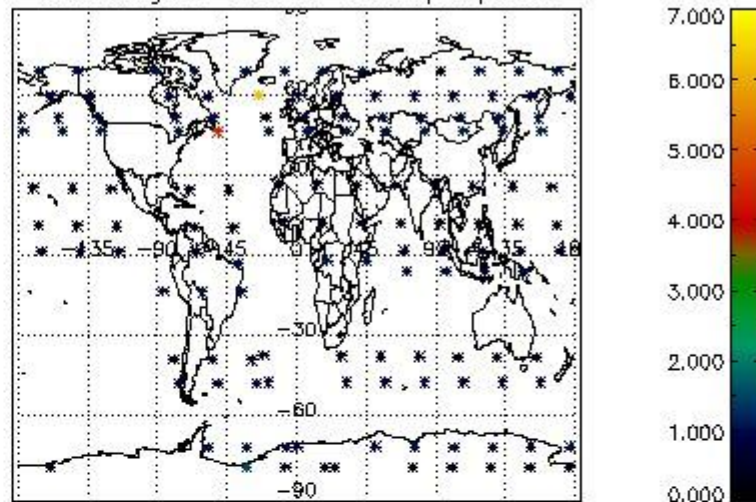
4.2 Plot quality information per product coming from level 1b processing (world map)

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

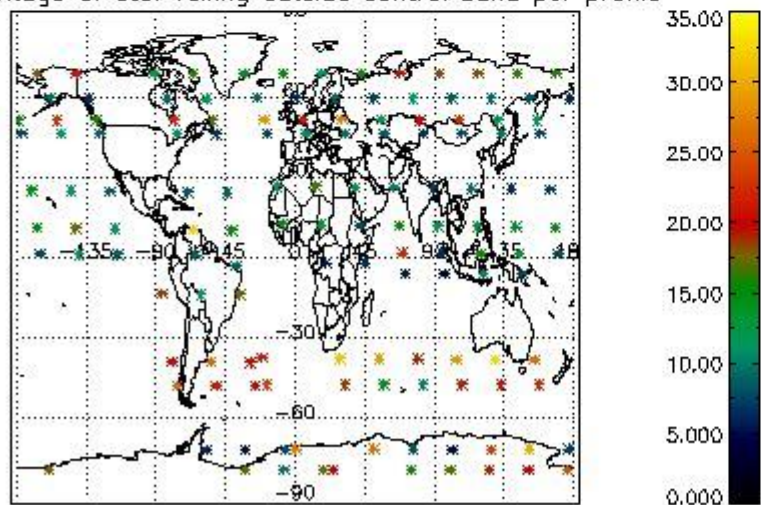
Percentage of cosmic ray hits per profile



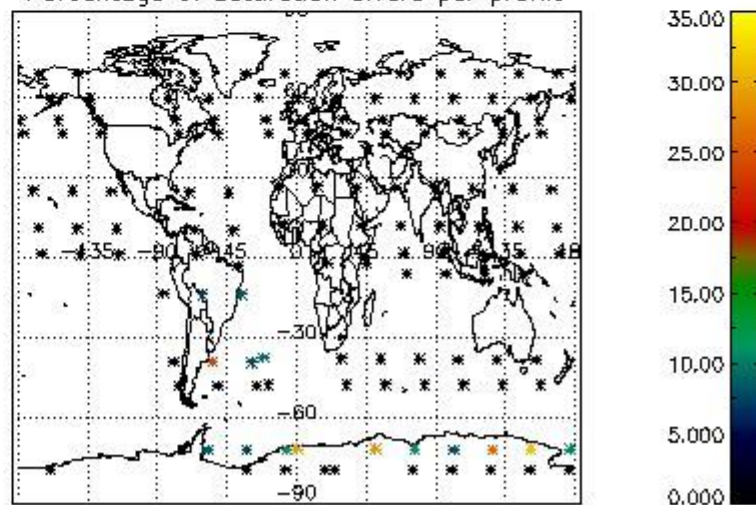
Percentage of datation errors per profile



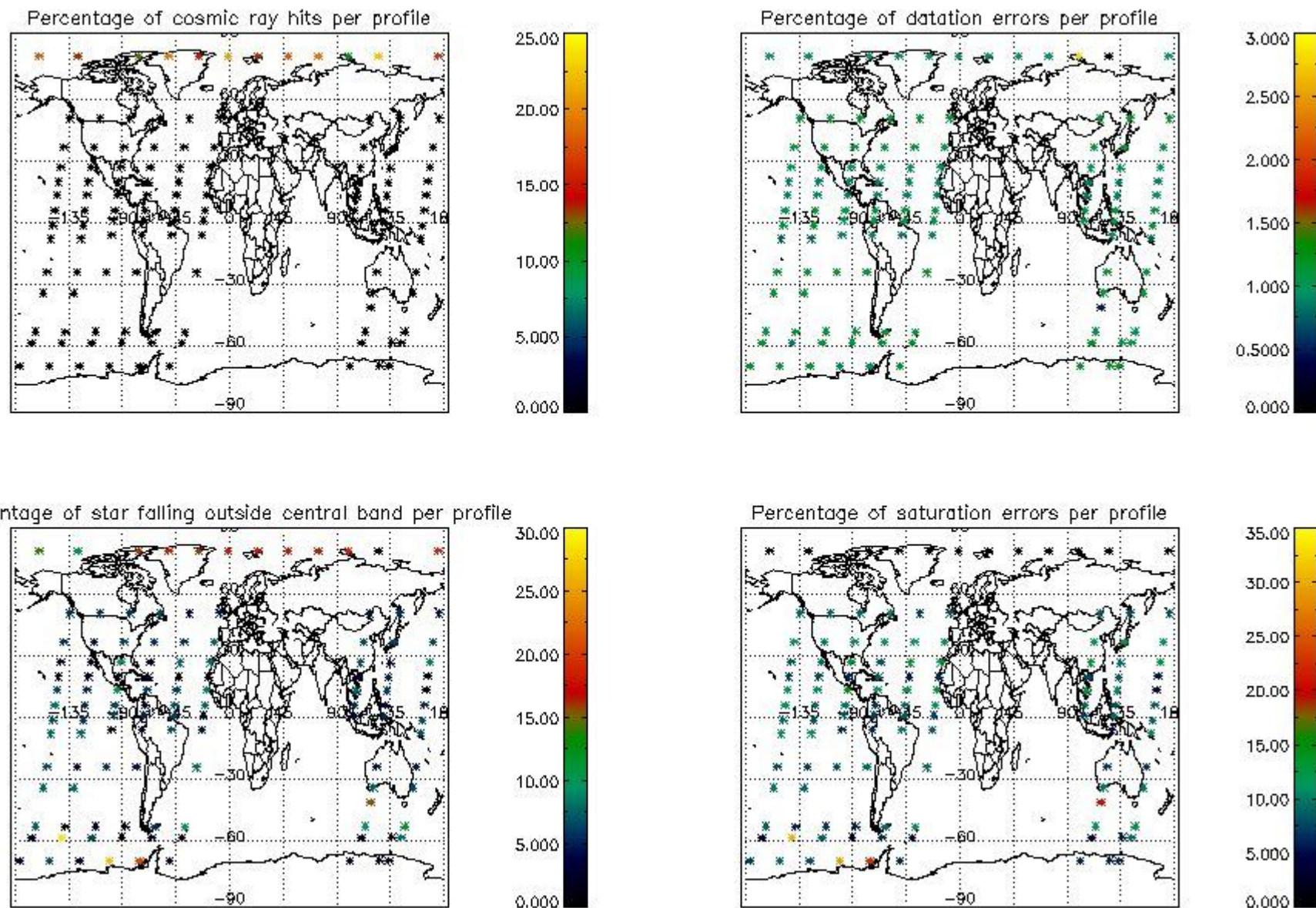
Percentage of star falling outside central band per profile



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

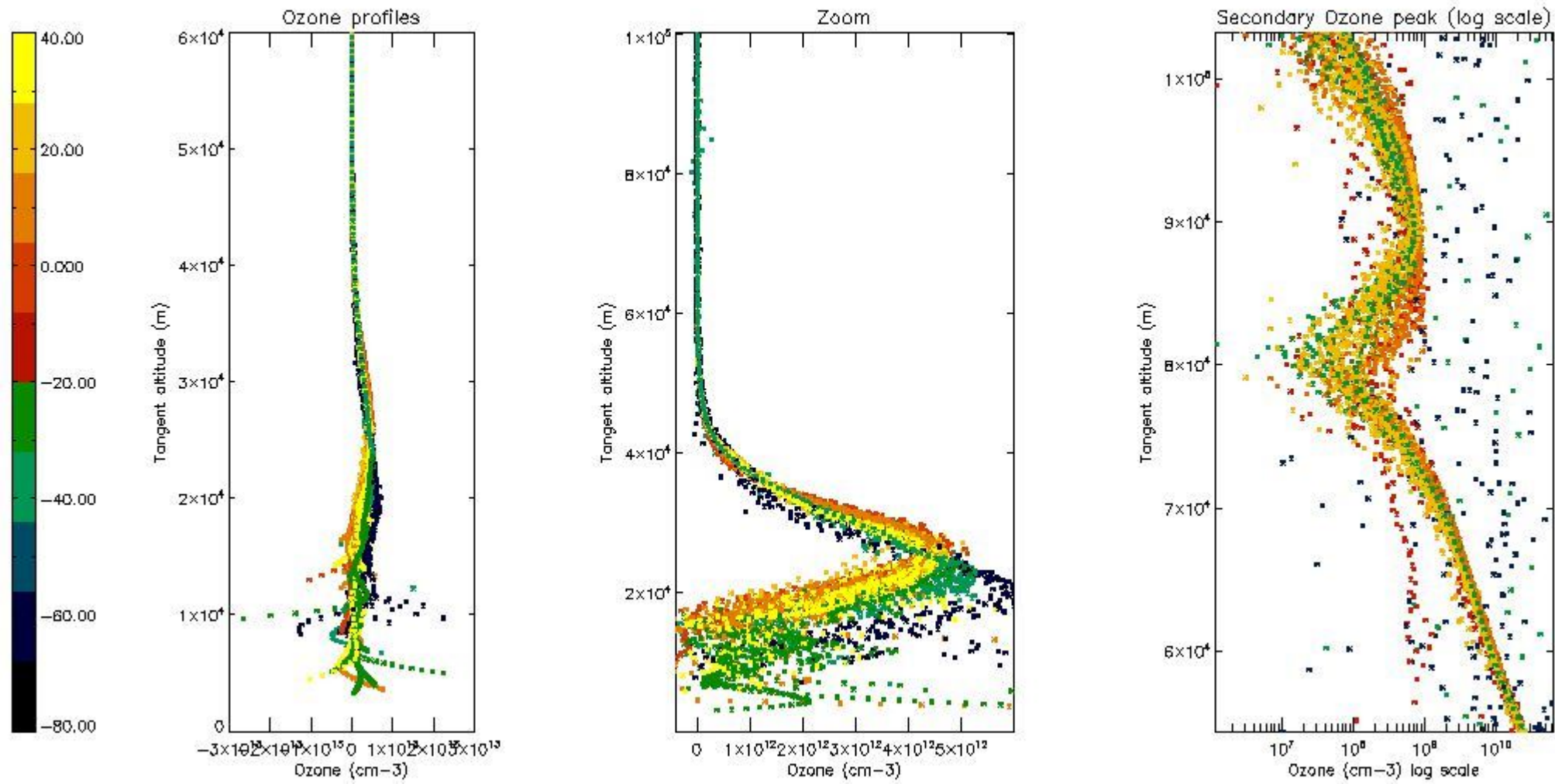
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	51
STD < 20	30

STD < 10	27
STD < 5	23

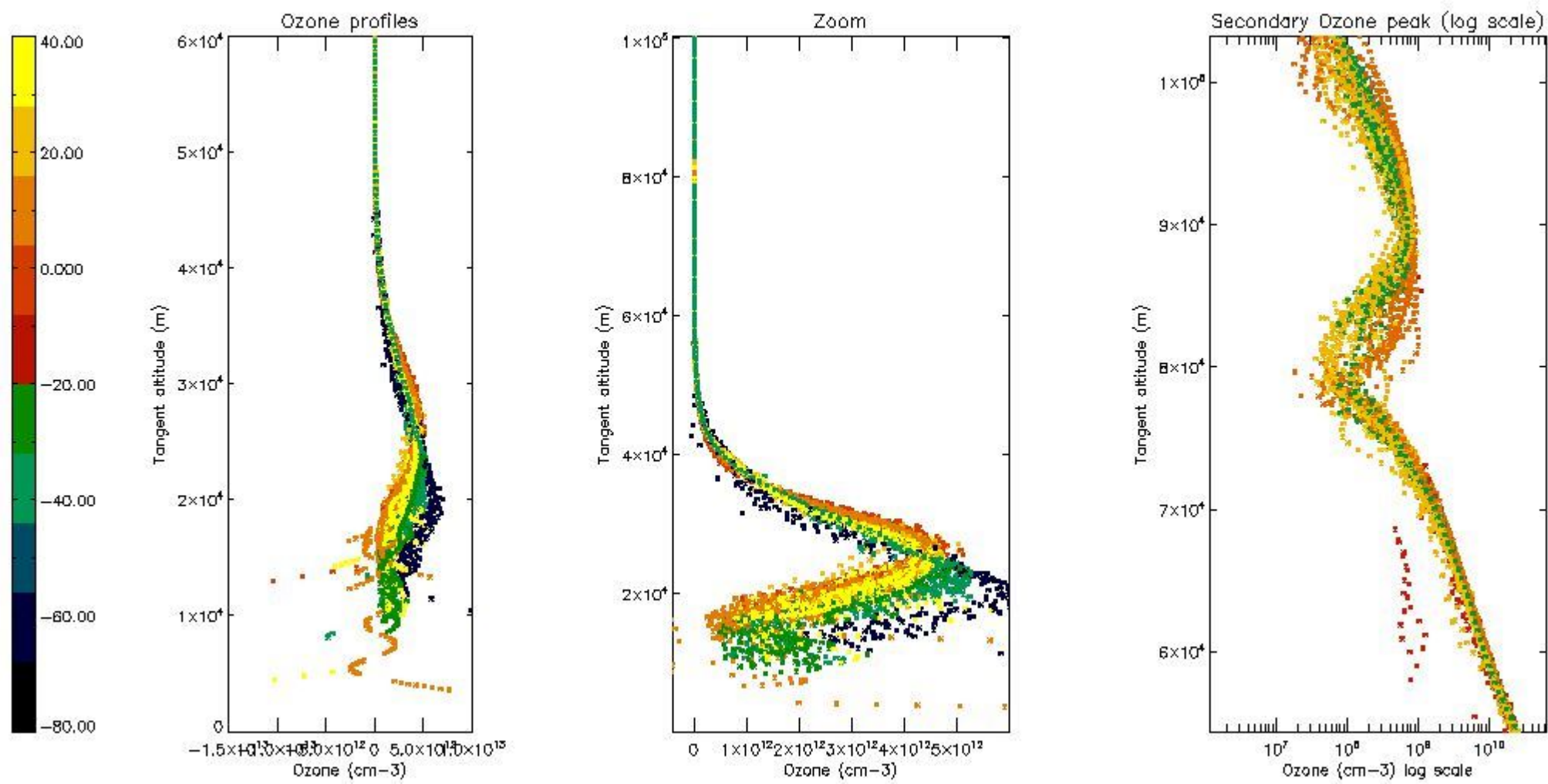
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



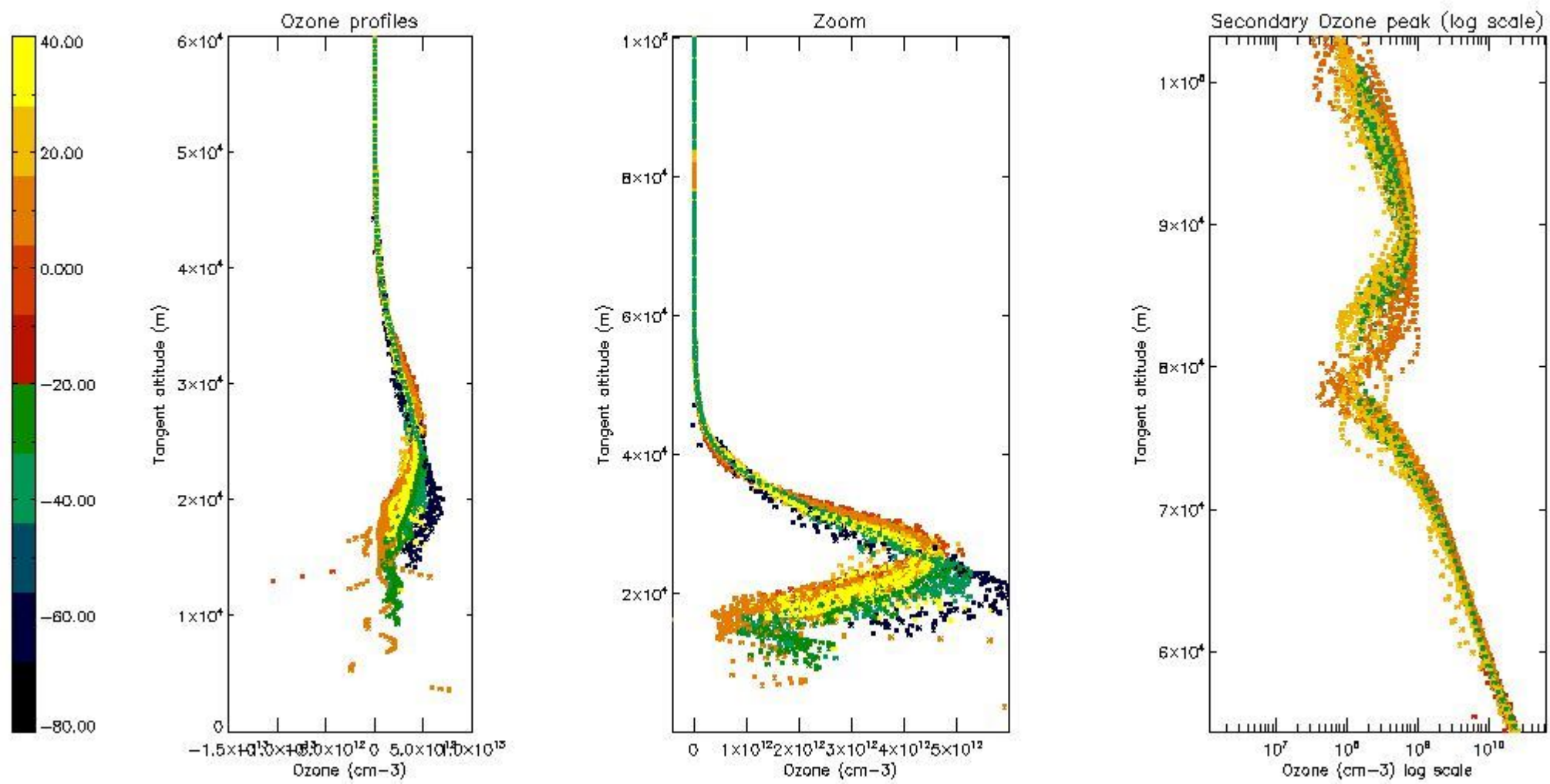
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



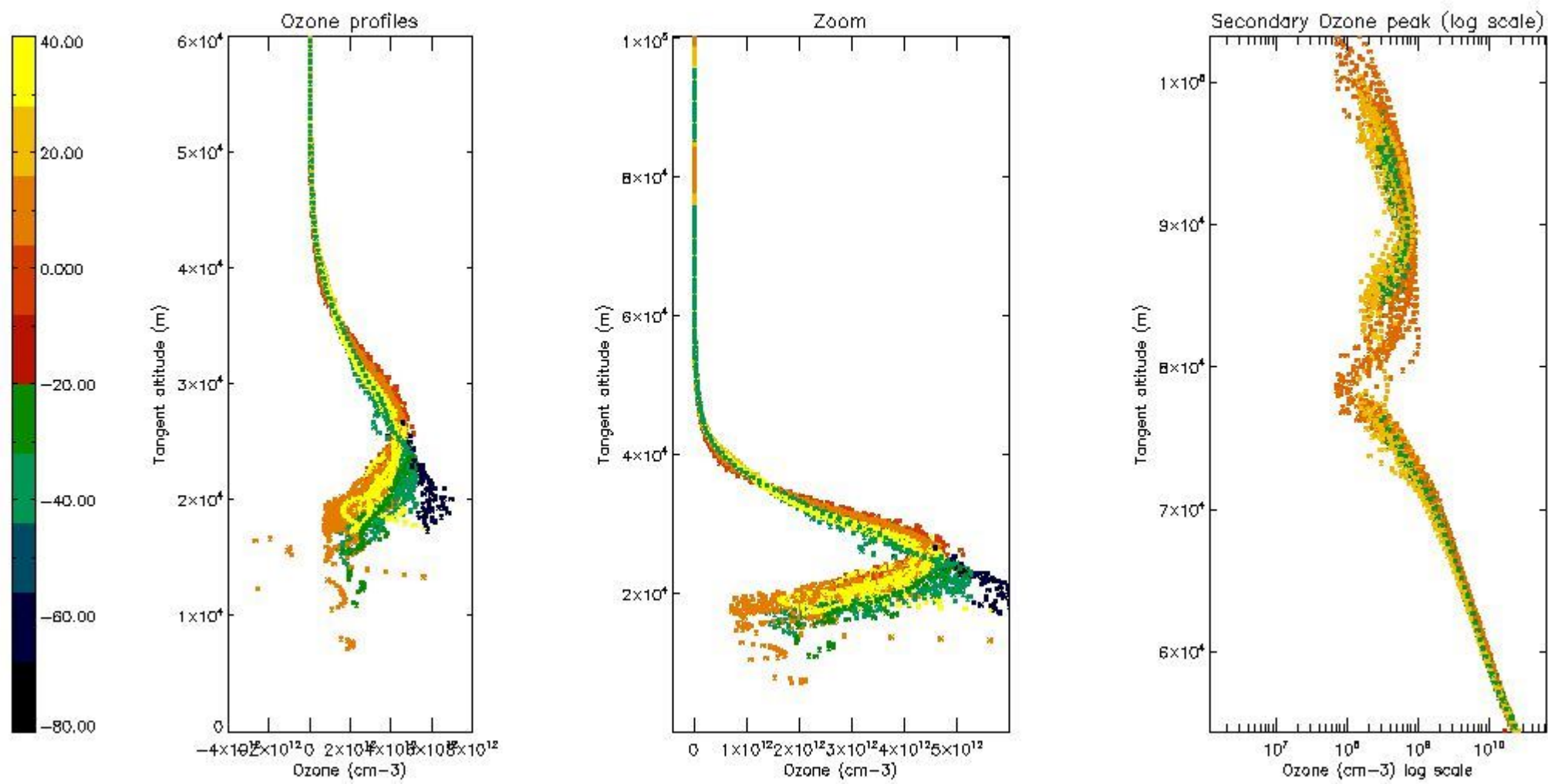
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



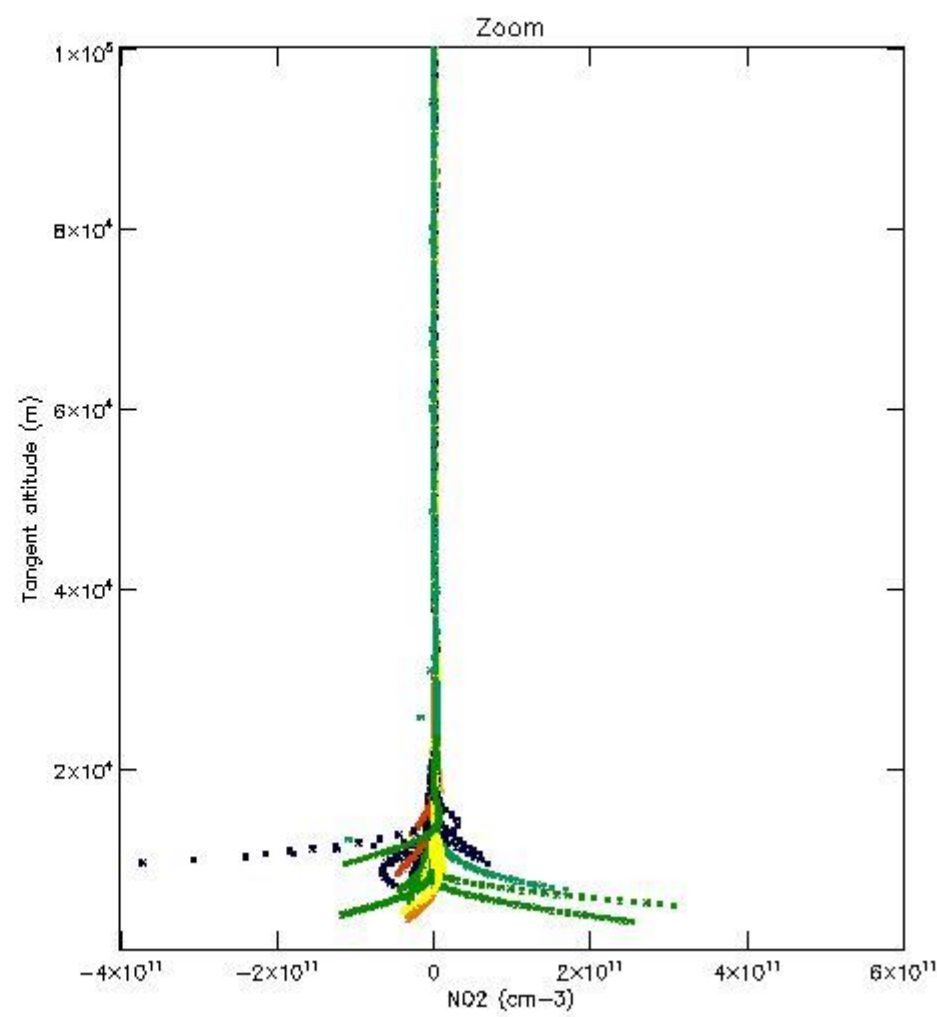
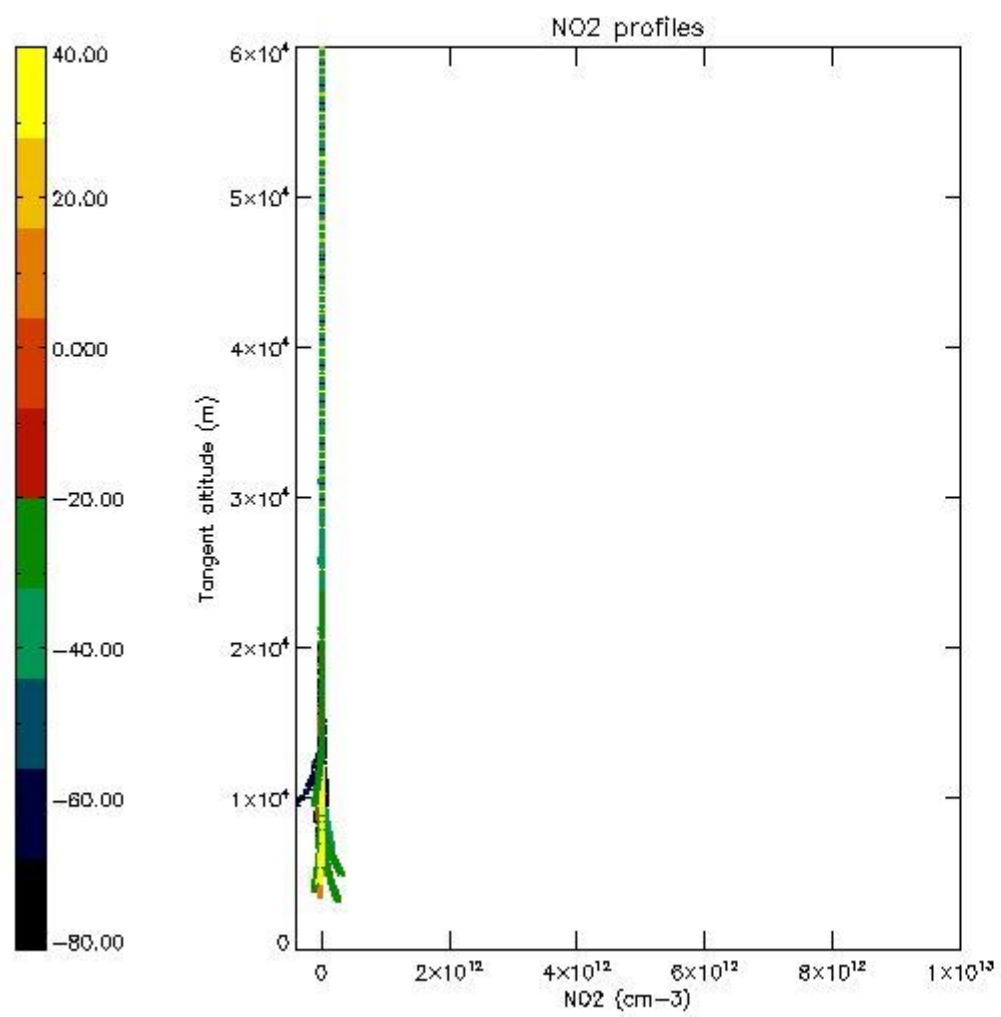
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



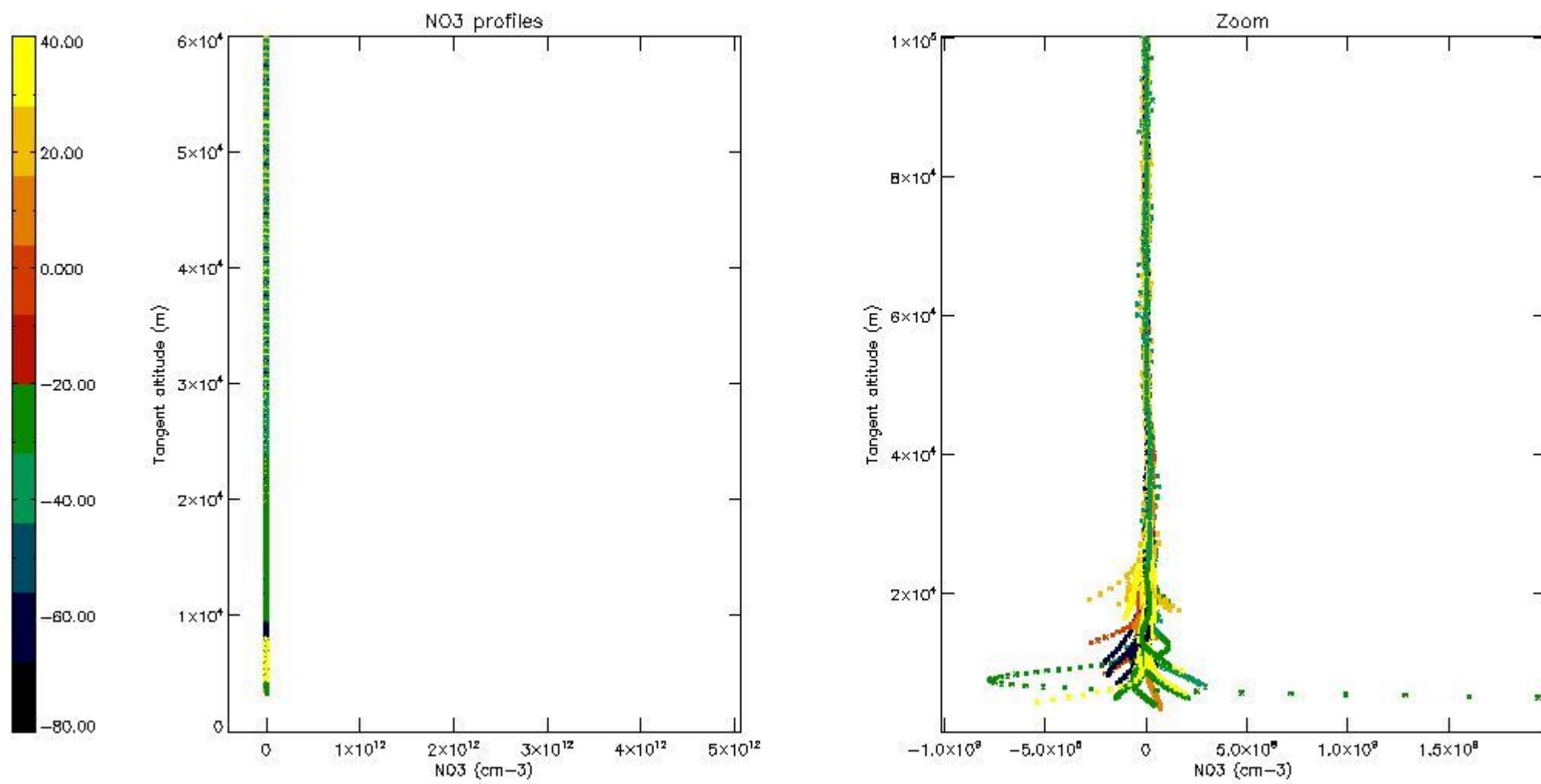
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



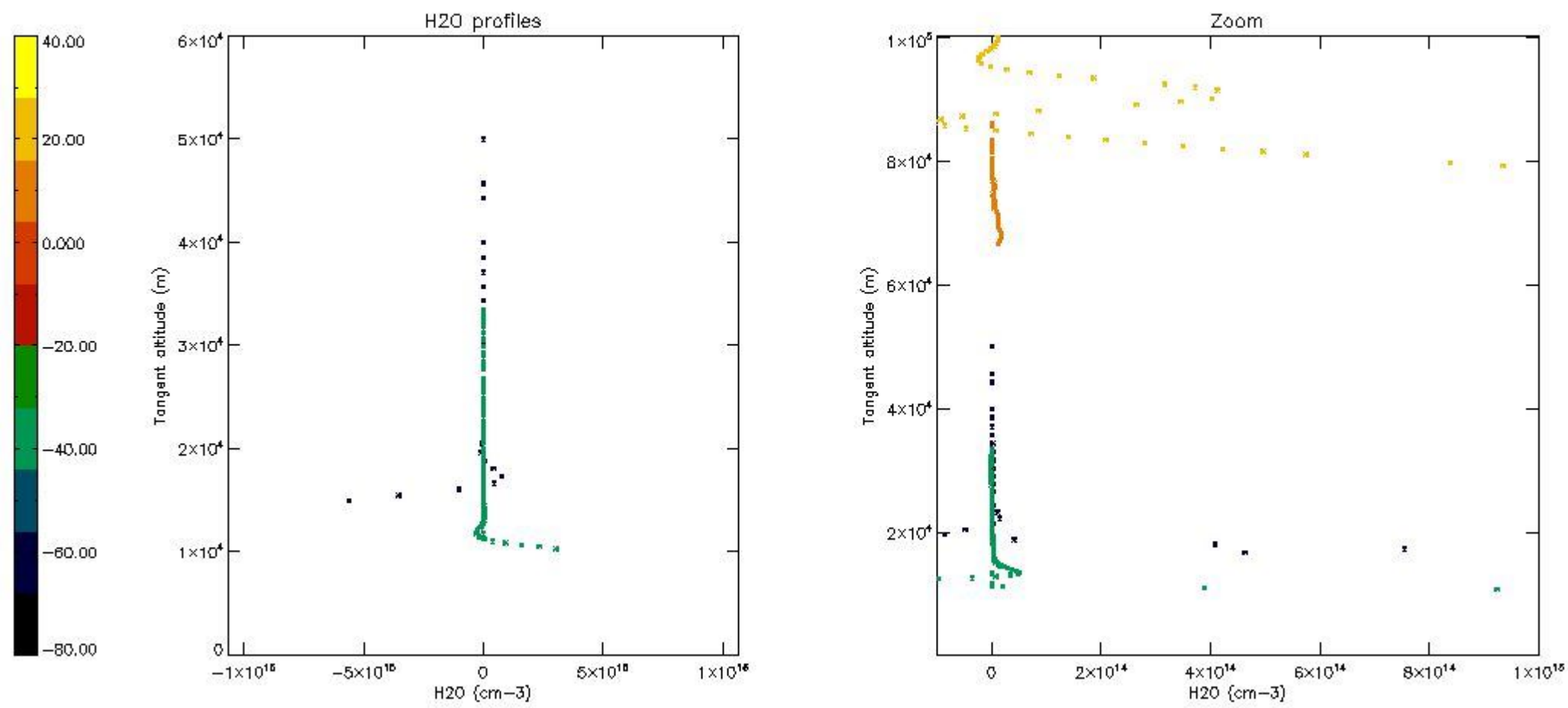
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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)

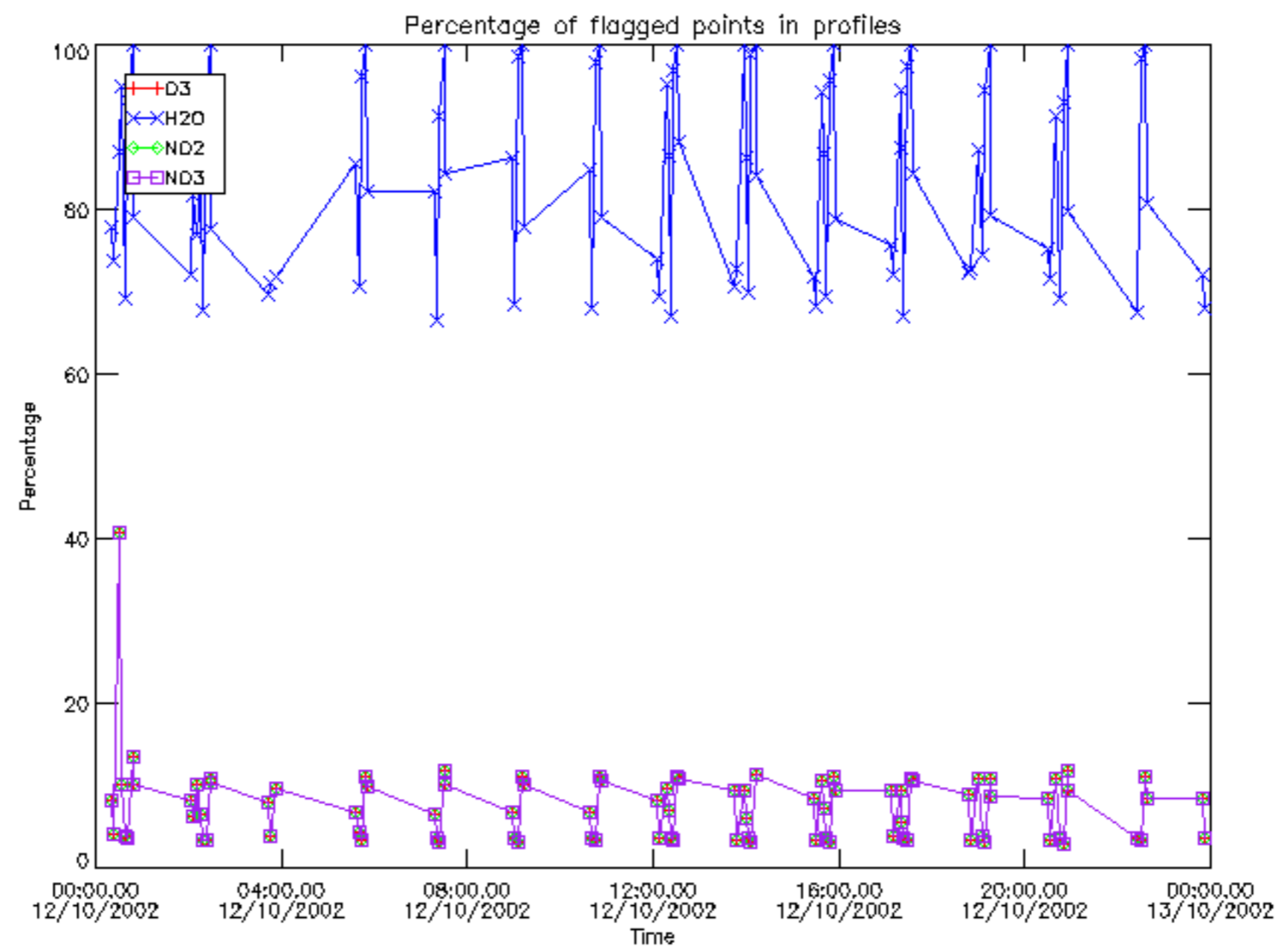
The colorbar represents the latitude.



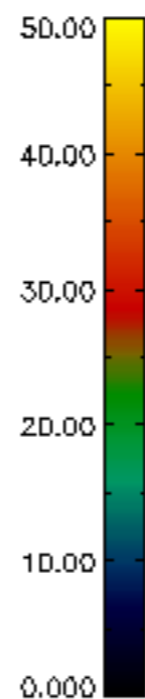
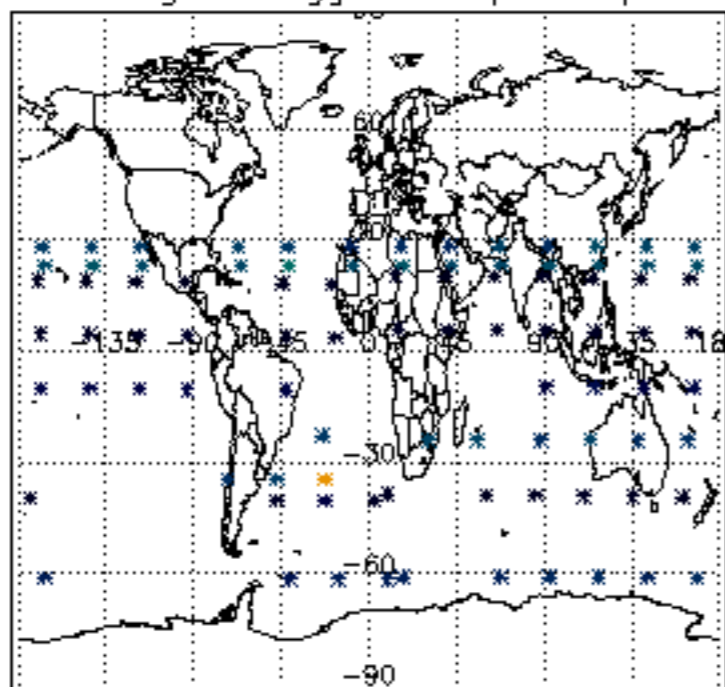
6. Auxiliary Data Files used for the production reported in section 2

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.

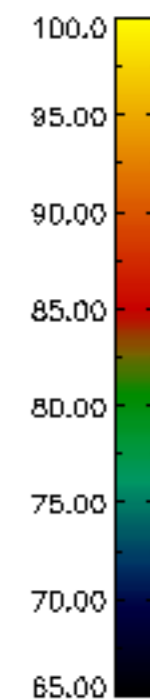
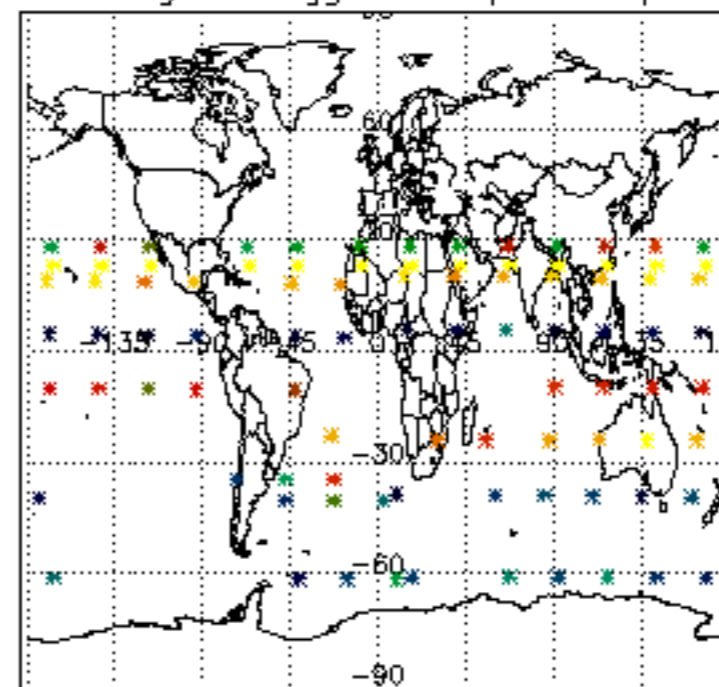
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	12-OCT-2002 00:00:51
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	12-OCT-2002 00:00:51
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	12-OCT-2002 00:00:51



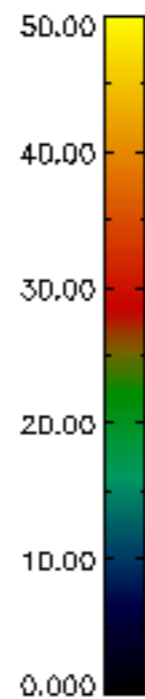
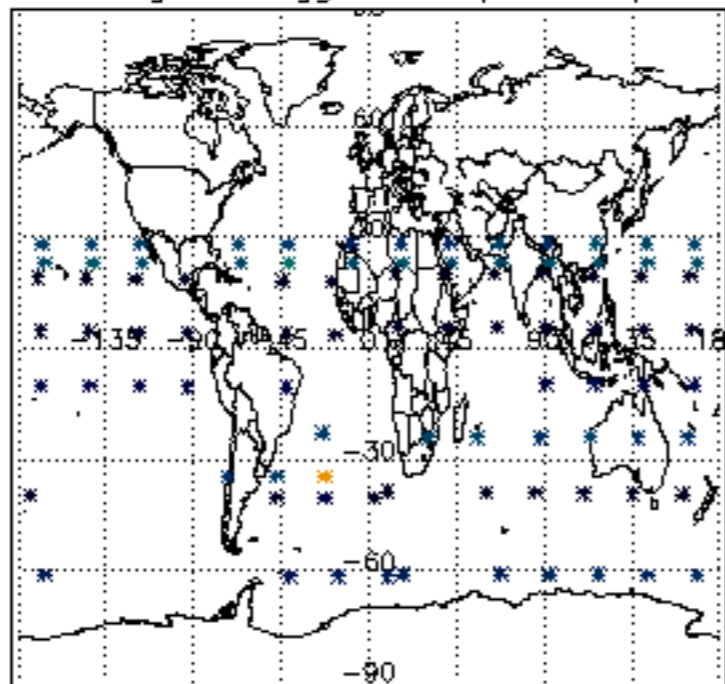
Percentage of flagged data per D3 profile



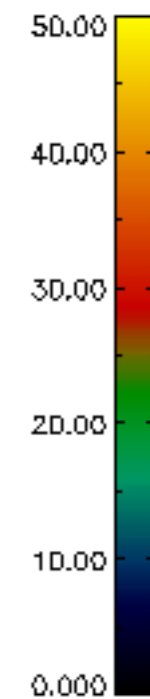
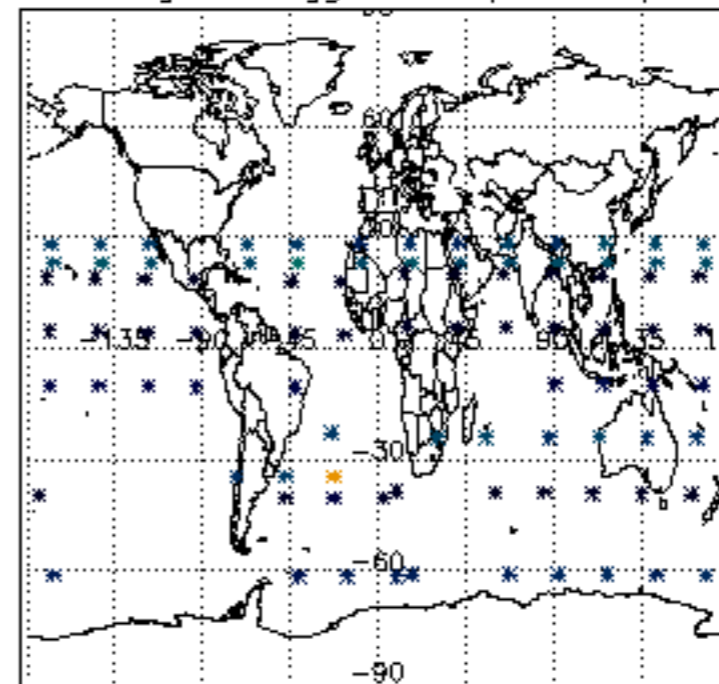
Percentage of flagged data per H2O profile

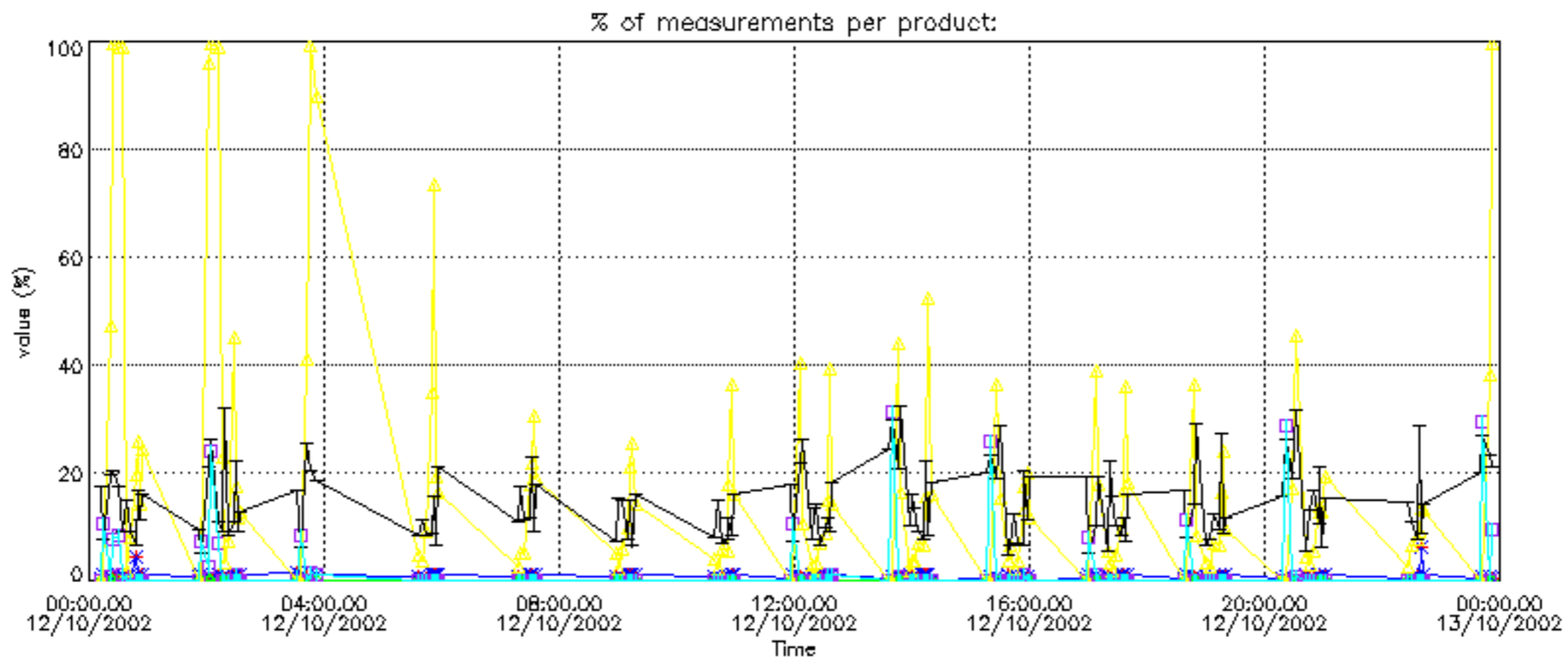
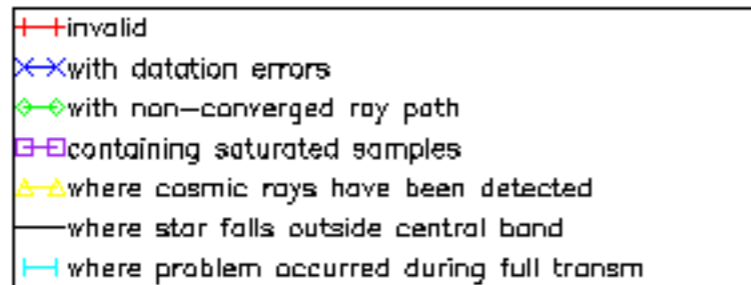


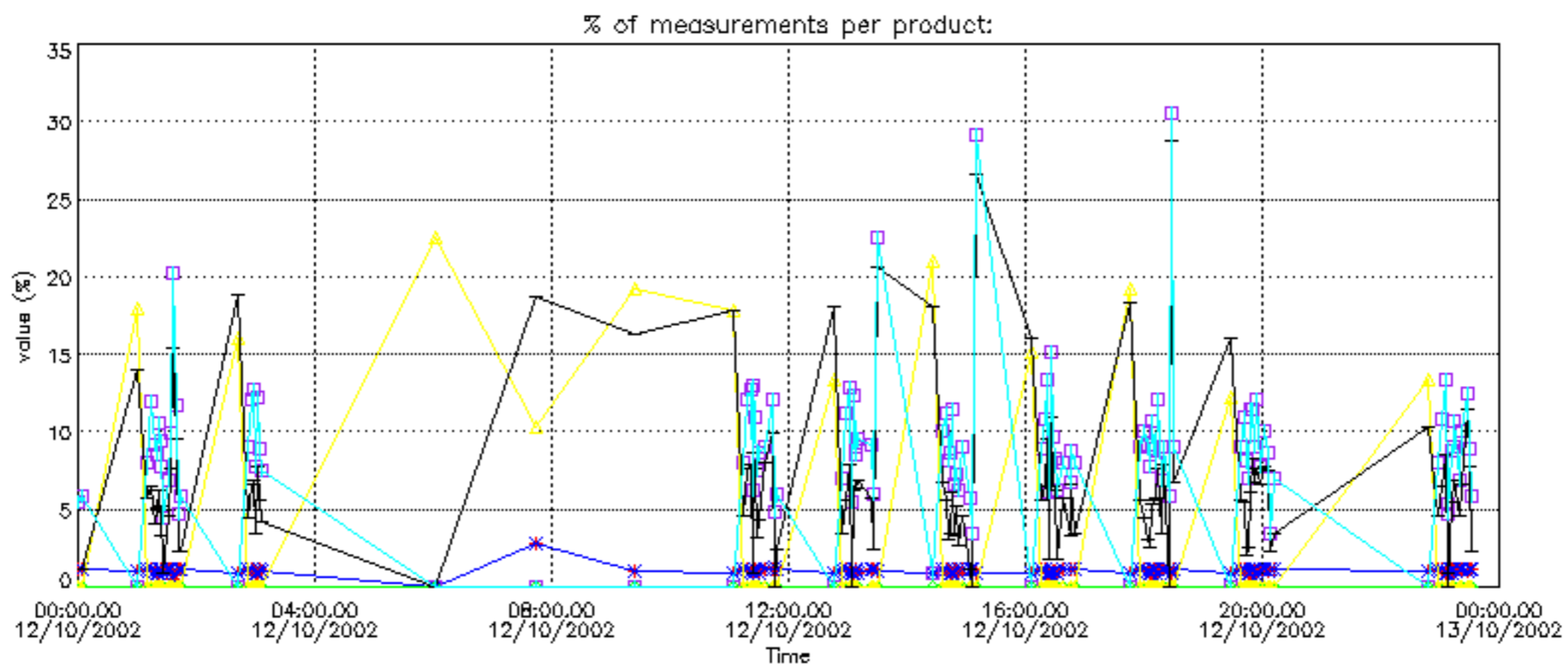
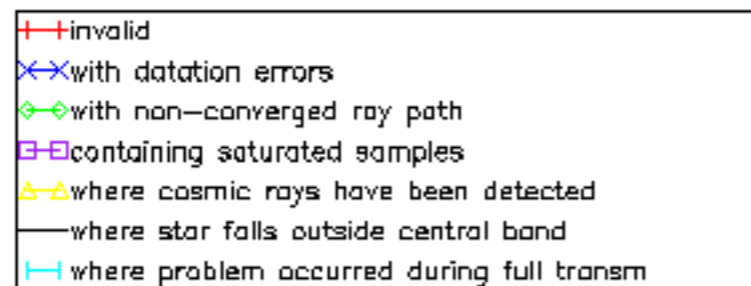
Percentage of flagged data per NO2 profile



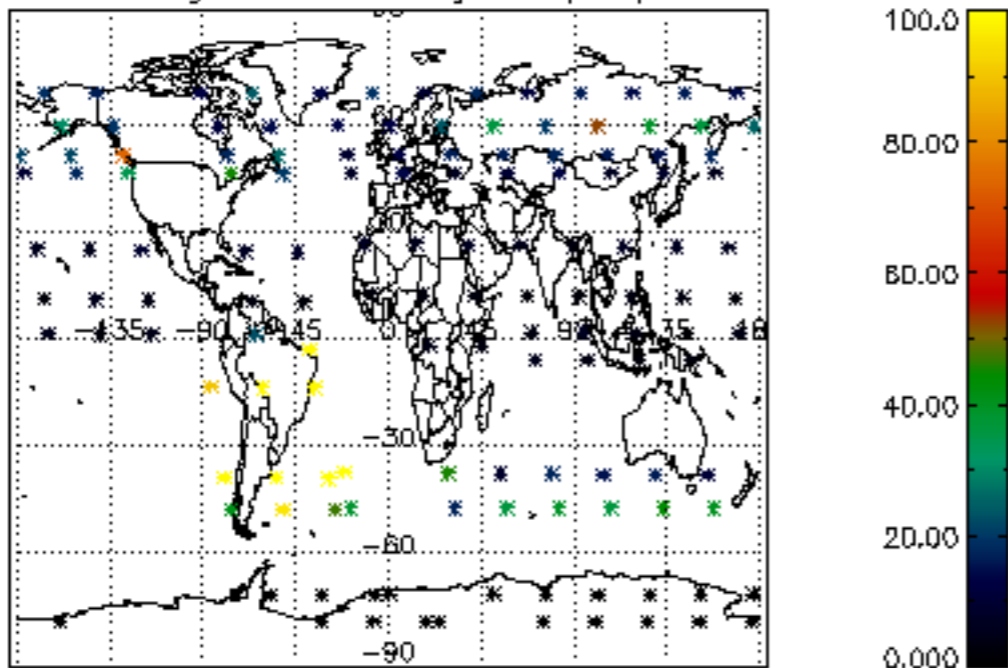
Percentage of flagged data per NO3 profile



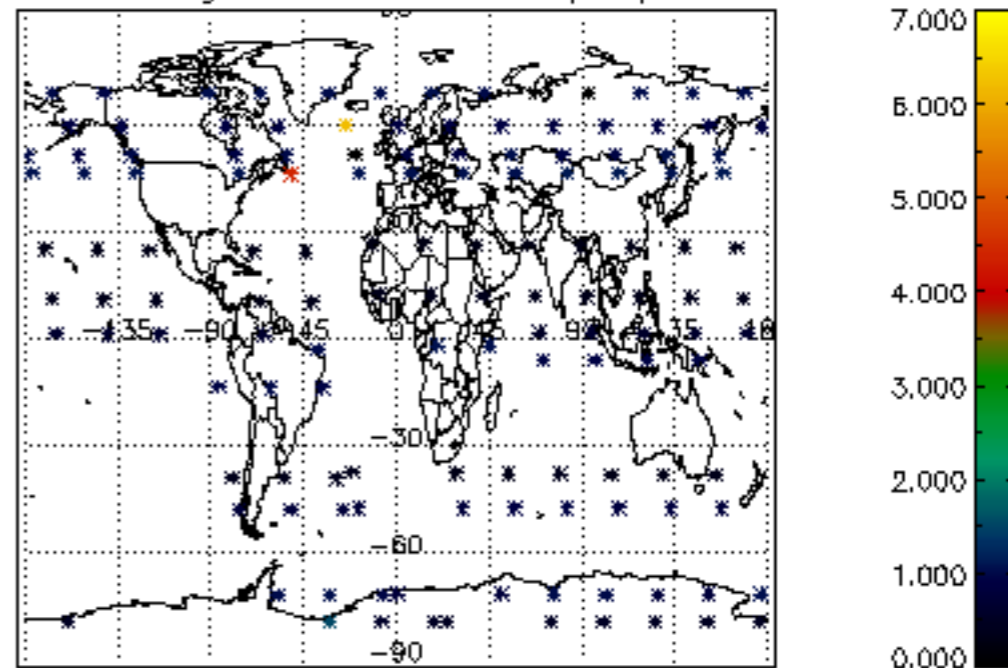




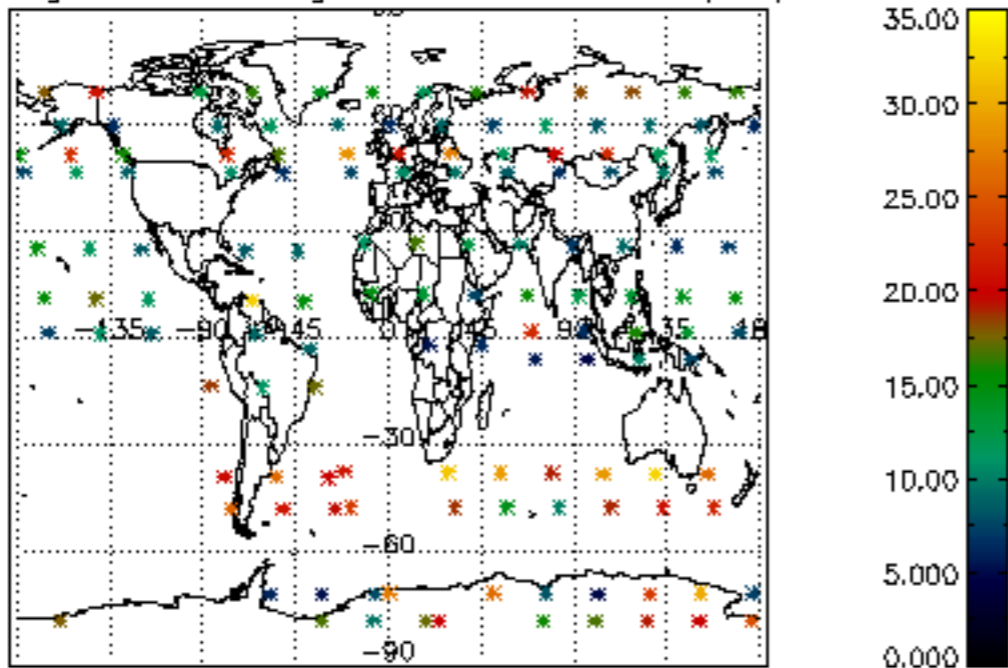
Percentage of cosmic ray hits per profile



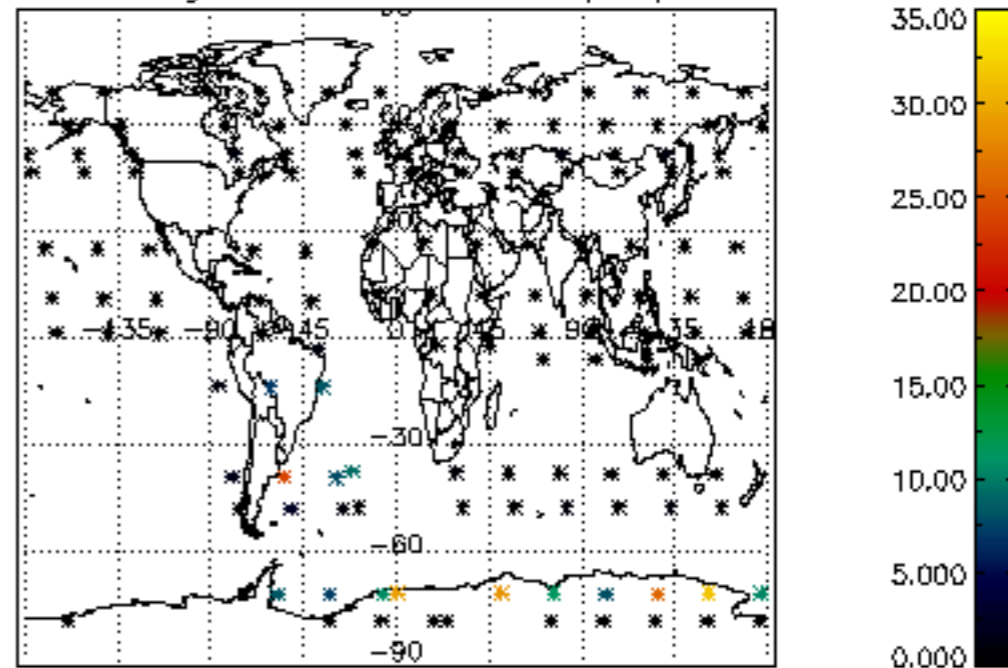
Percentage of datation errors per profile



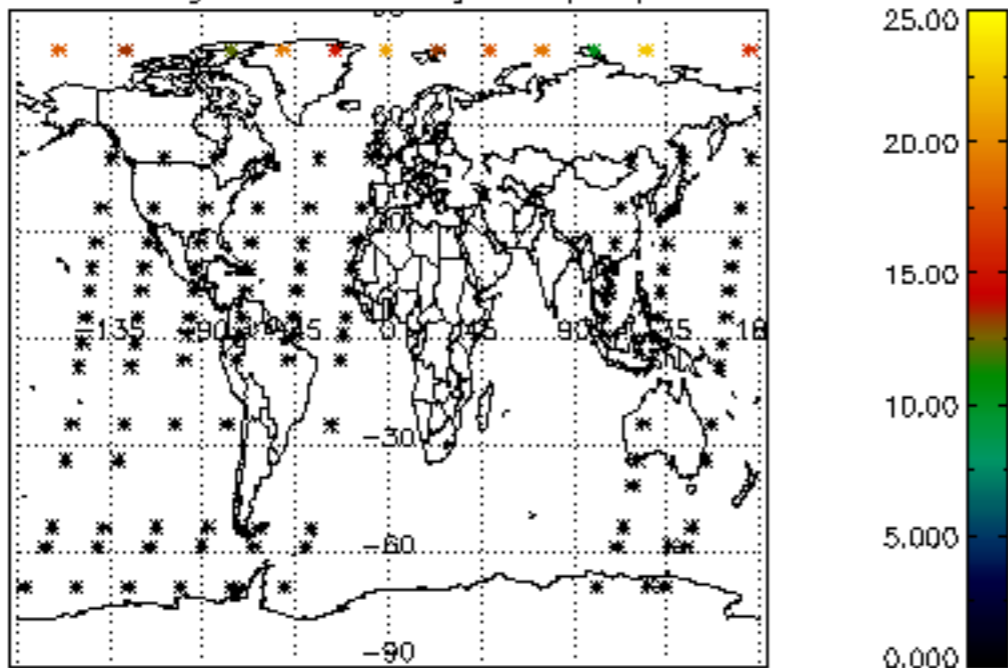
Percentage of star falling outside central band per profile



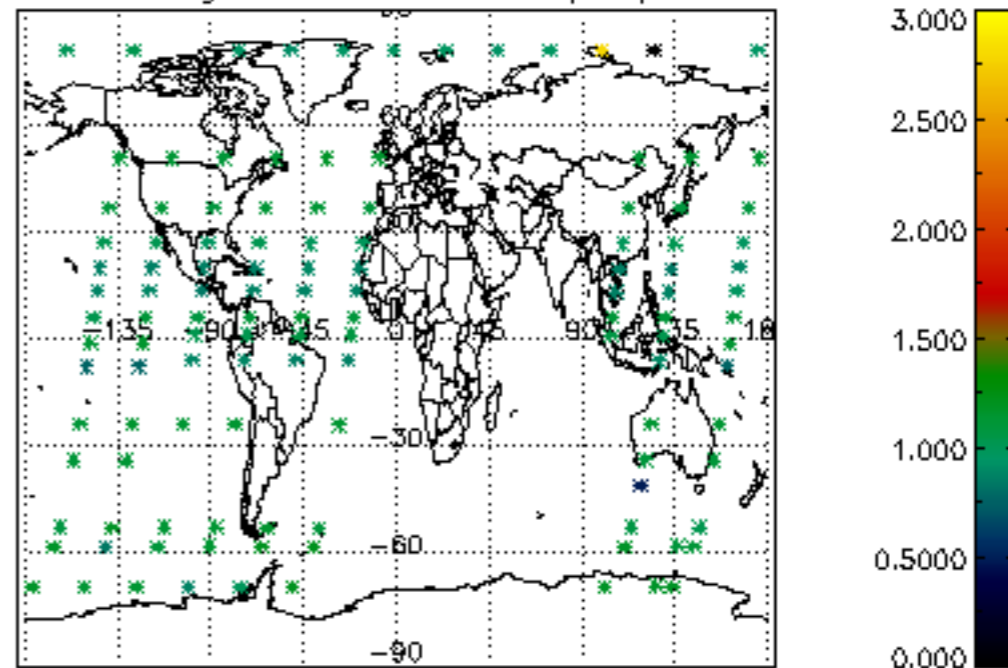
Percentage of saturation errors per profile



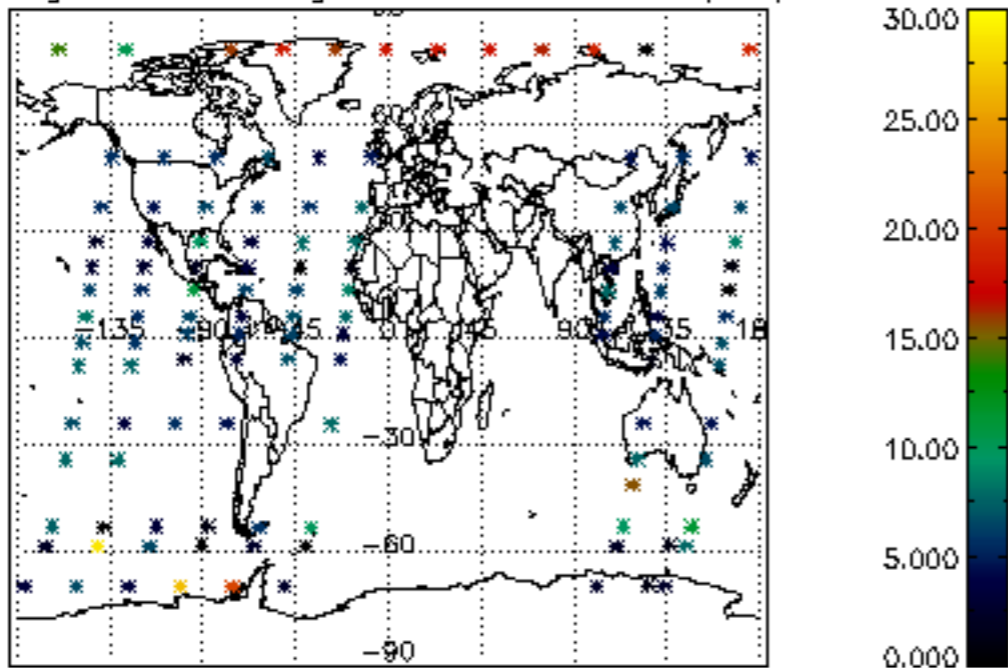
Percentage of cosmic ray hits per profile



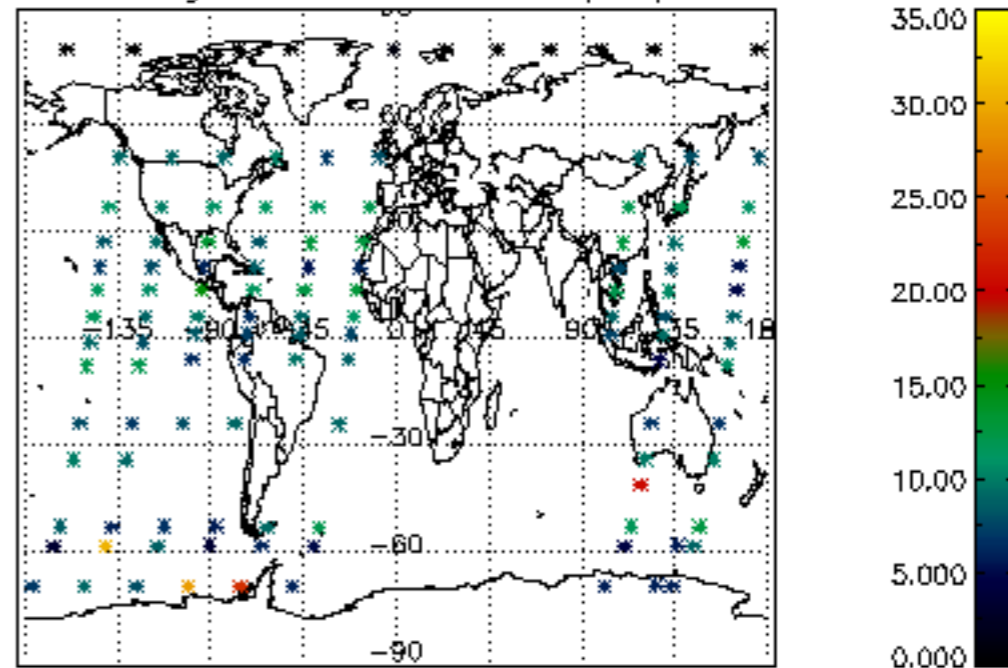
Percentage of datation errors per profile

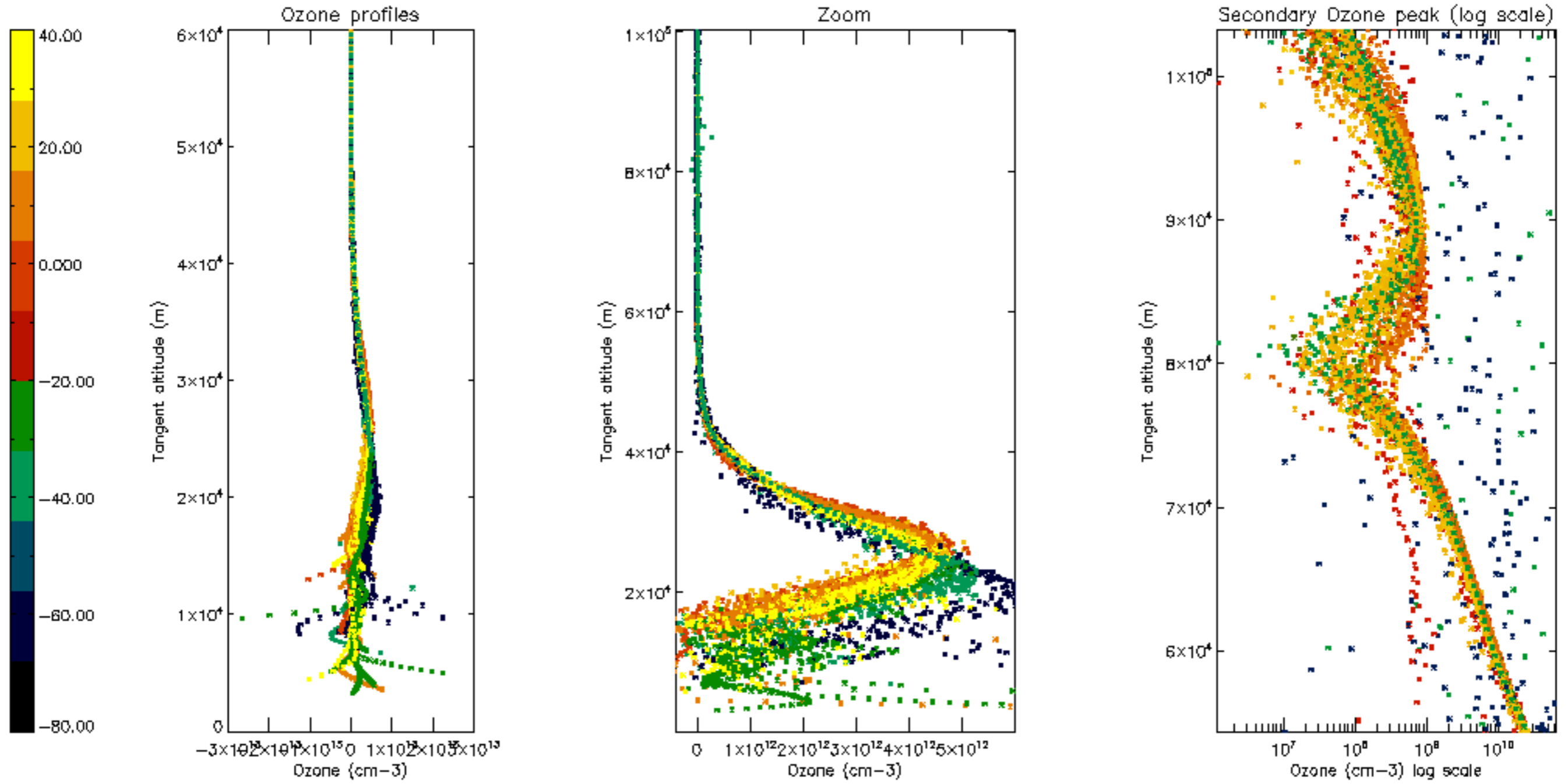


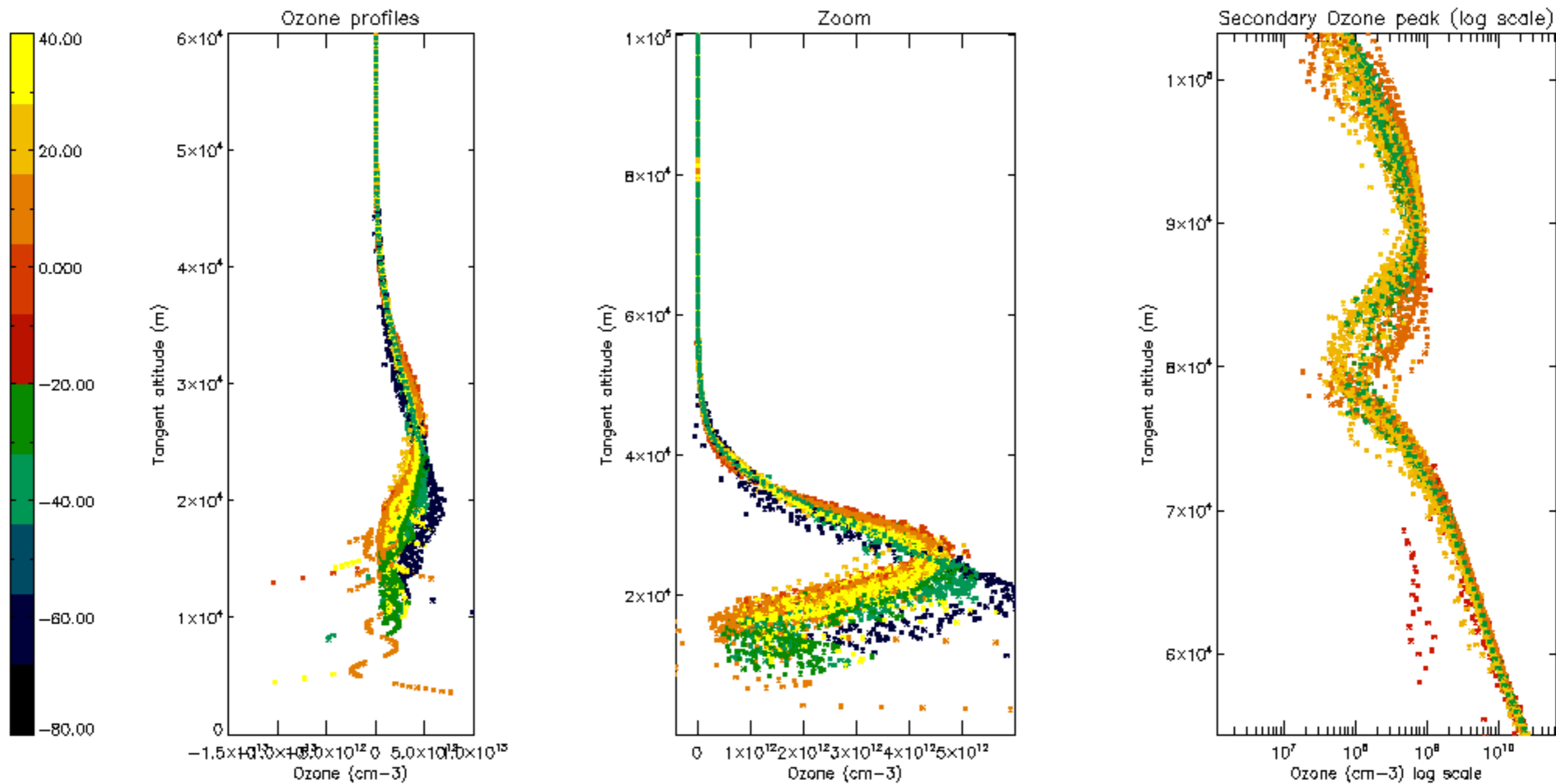
Percentage of star falling outside central band per profile

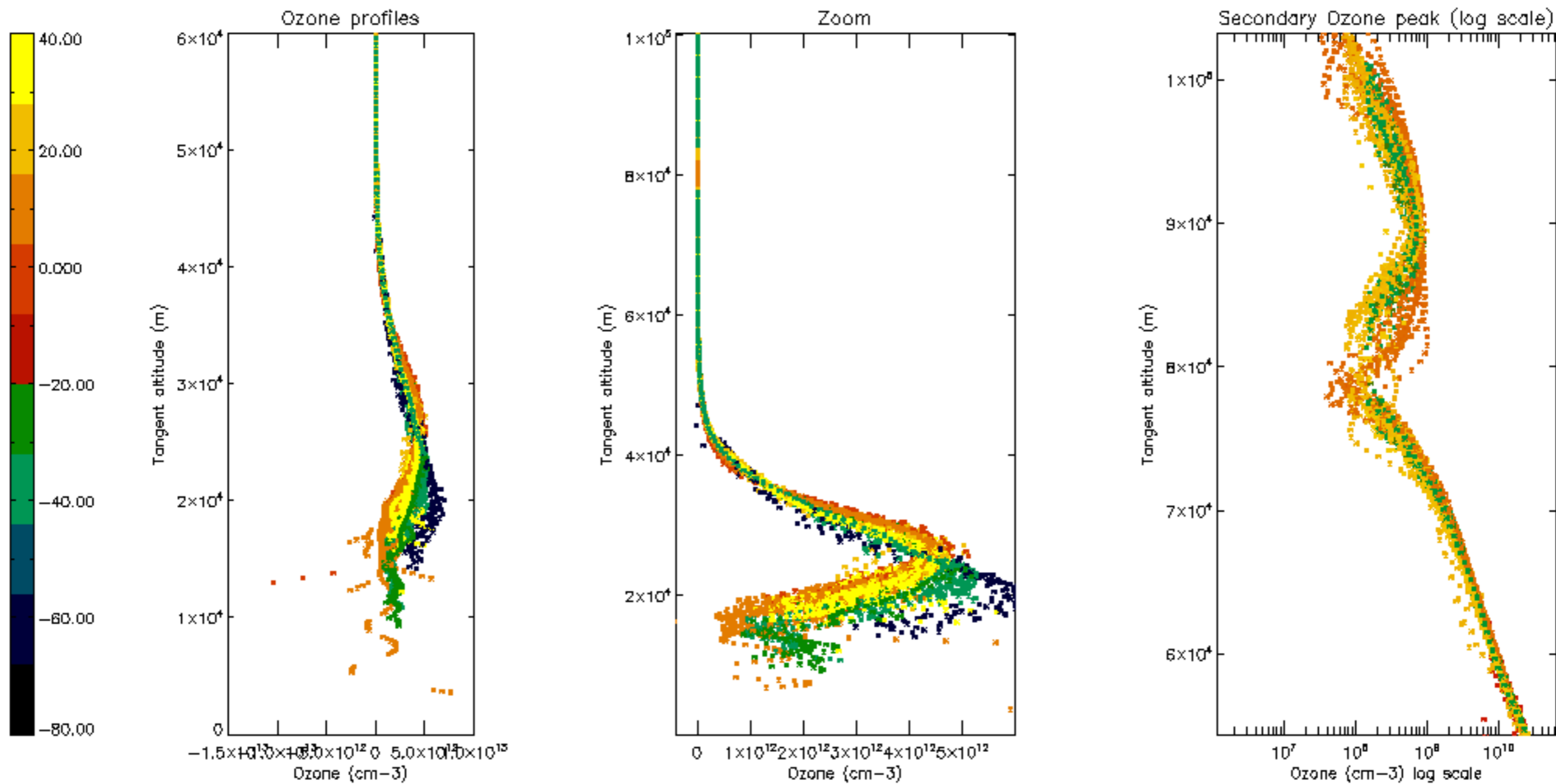


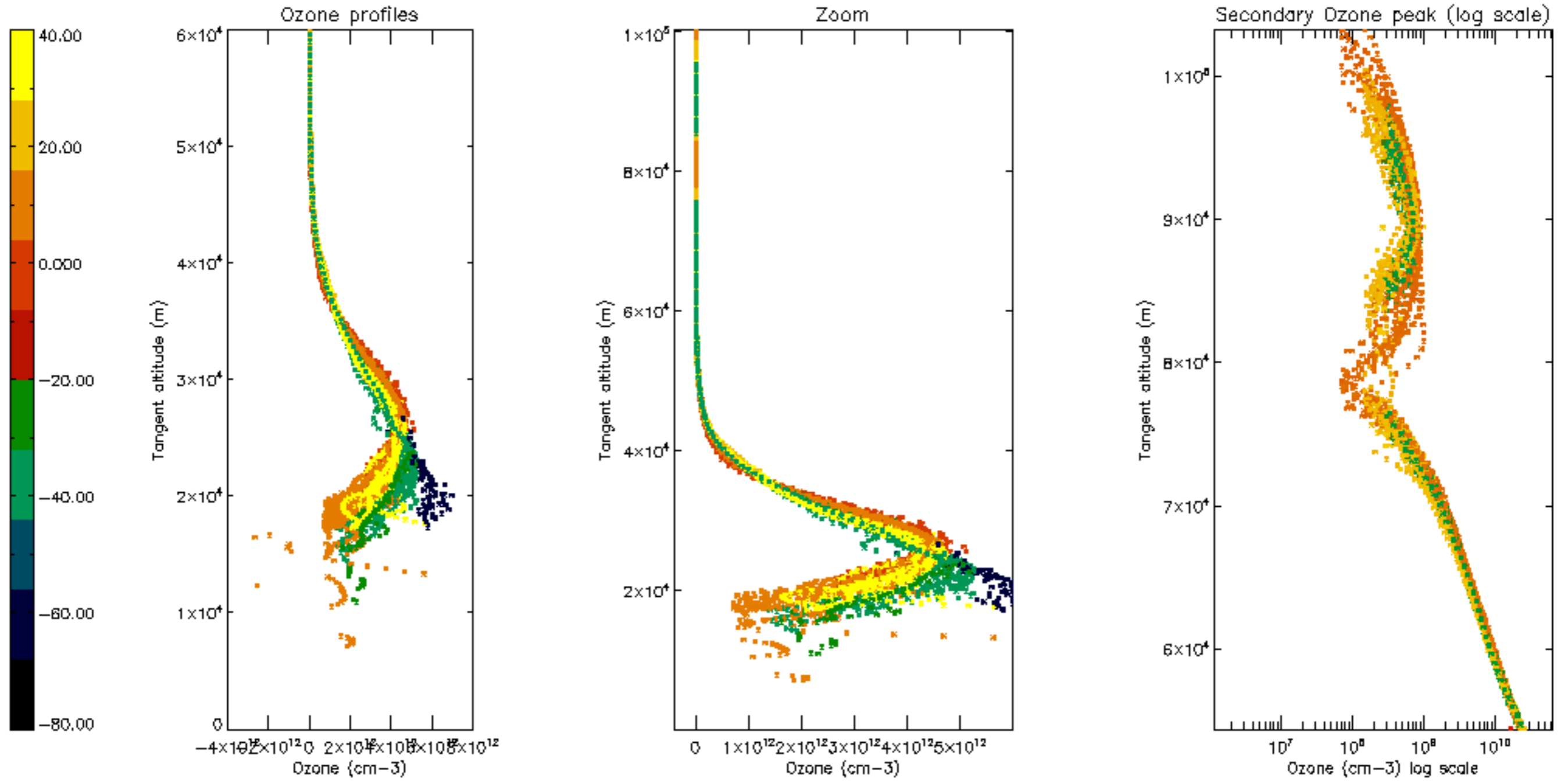
Percentage of saturation errors per profile

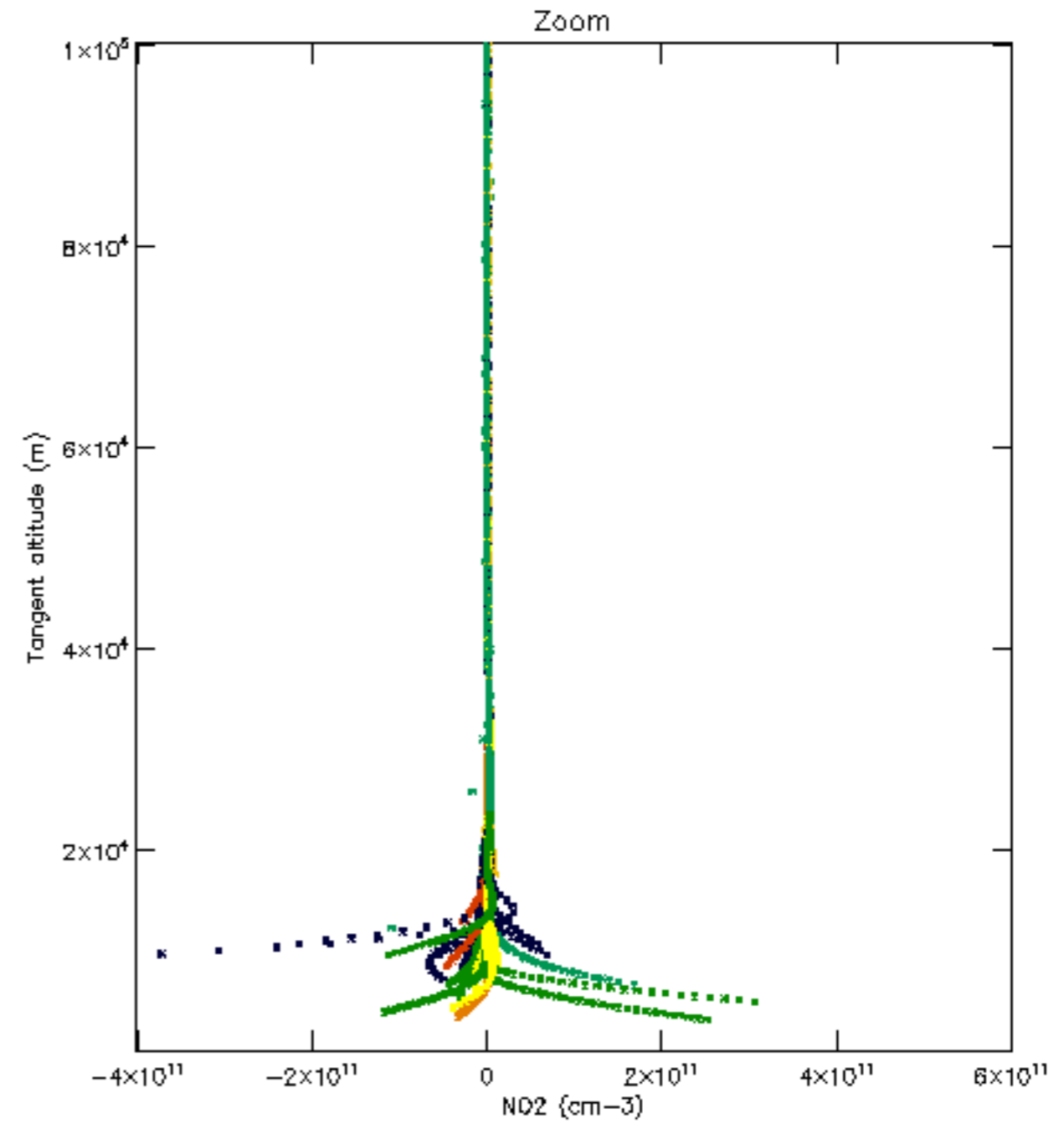
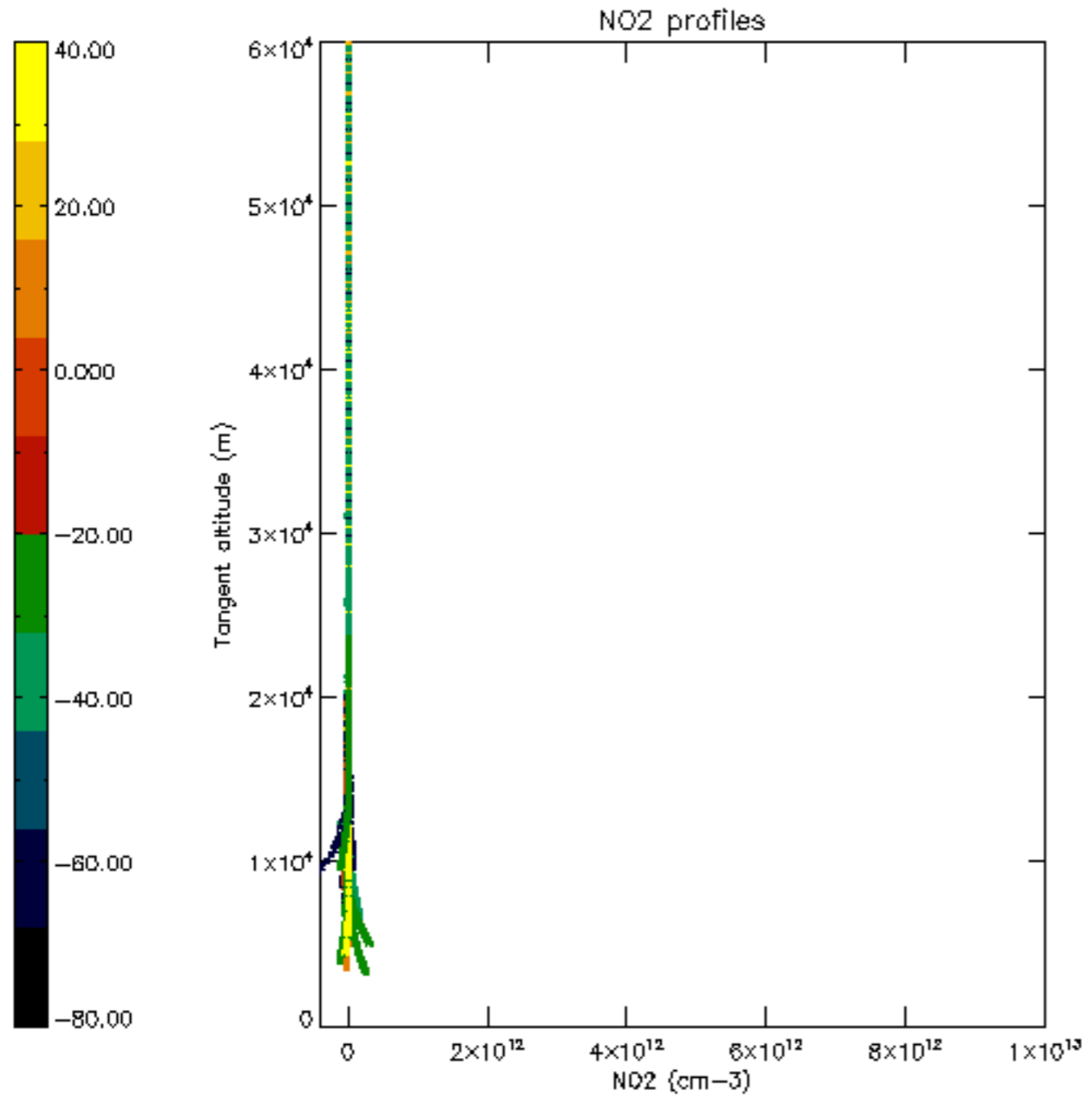


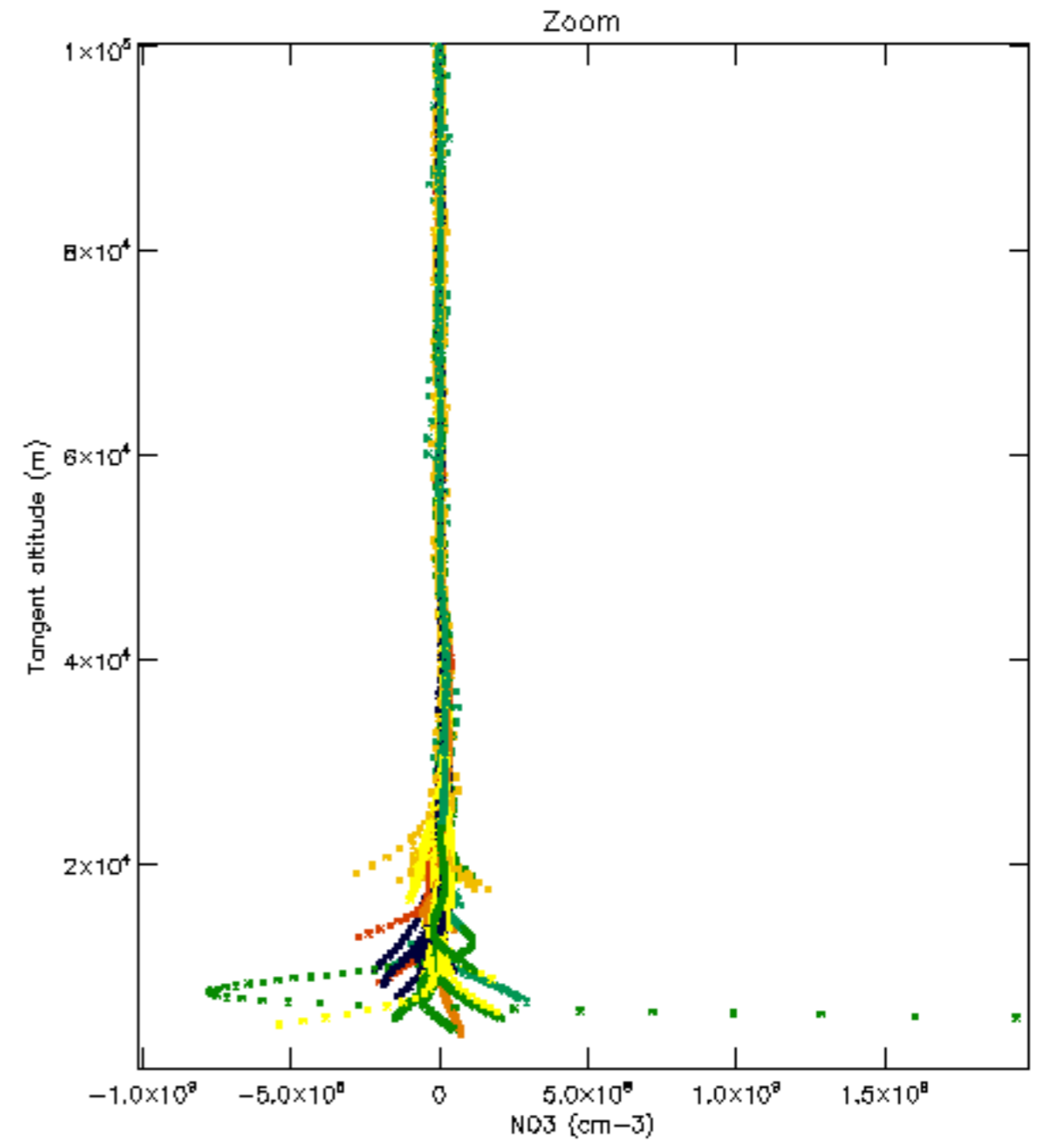
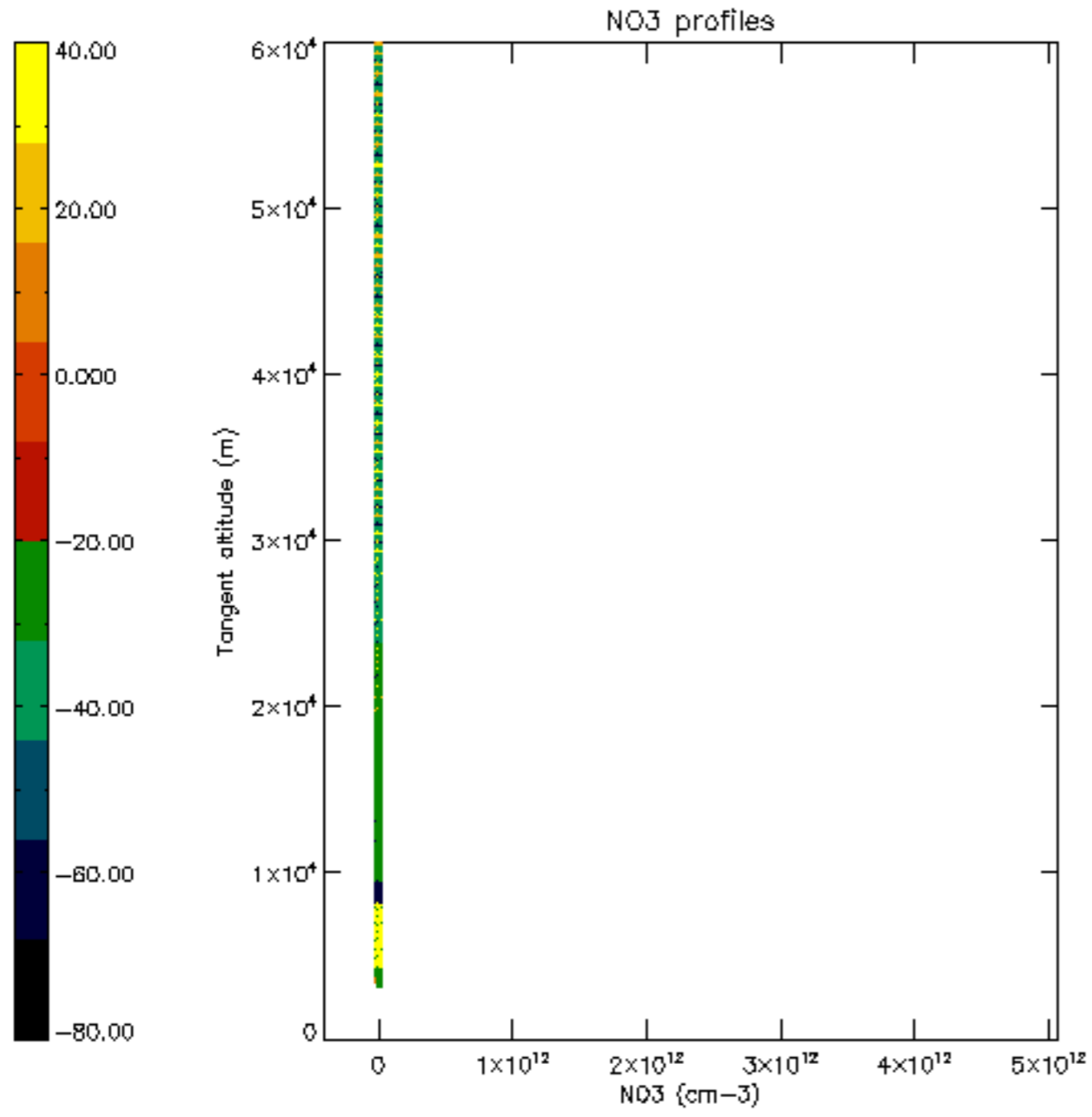


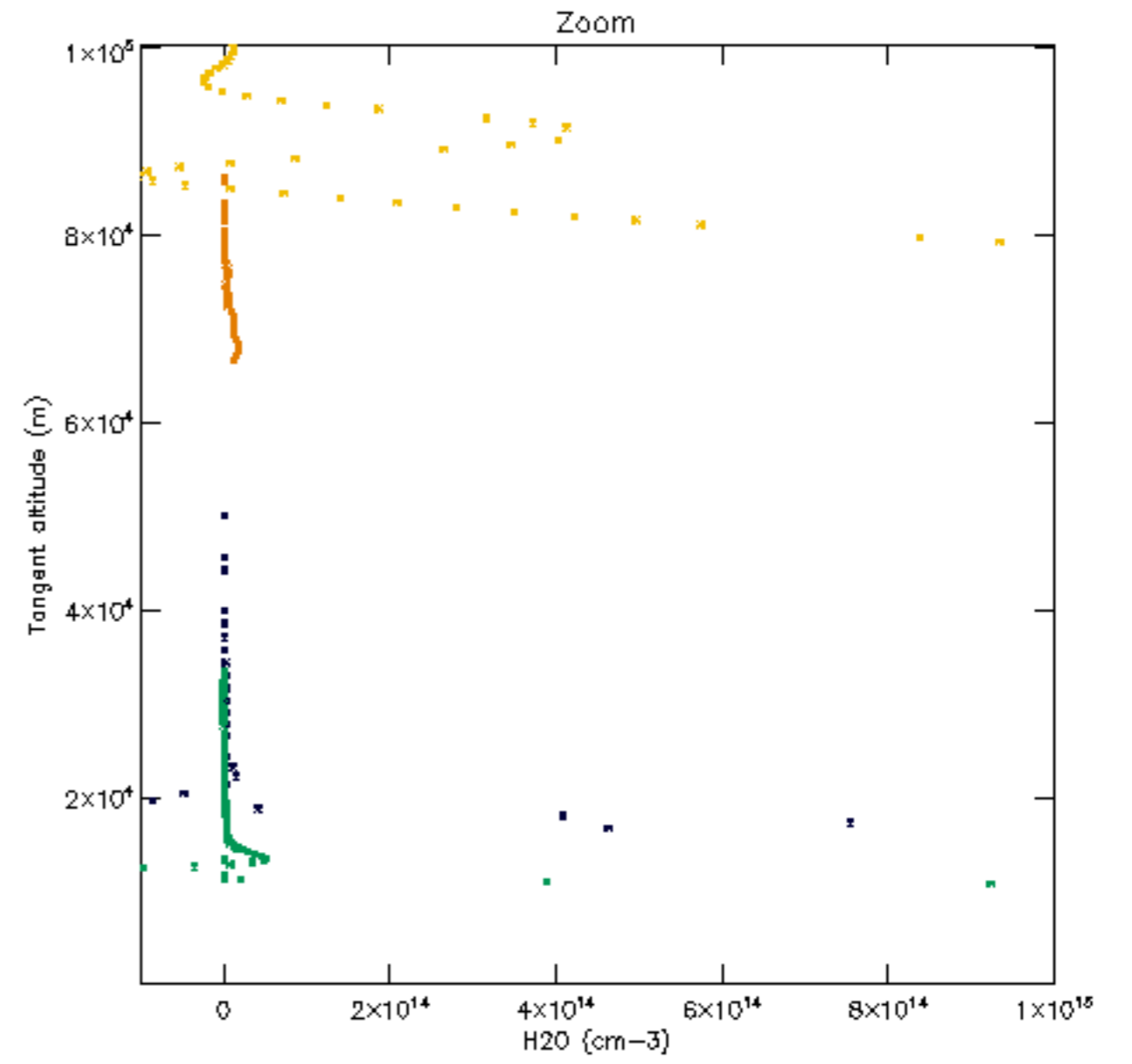
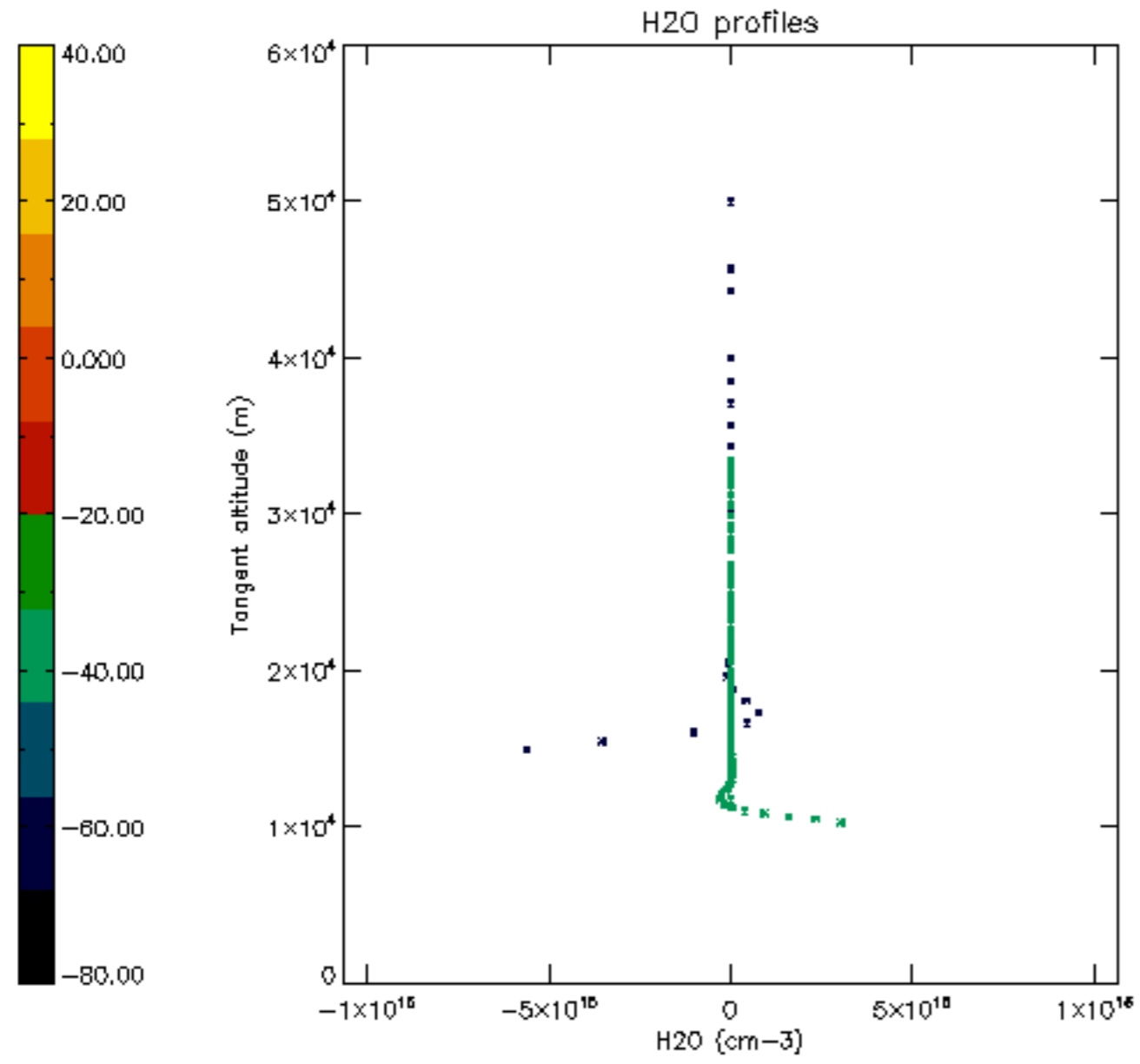


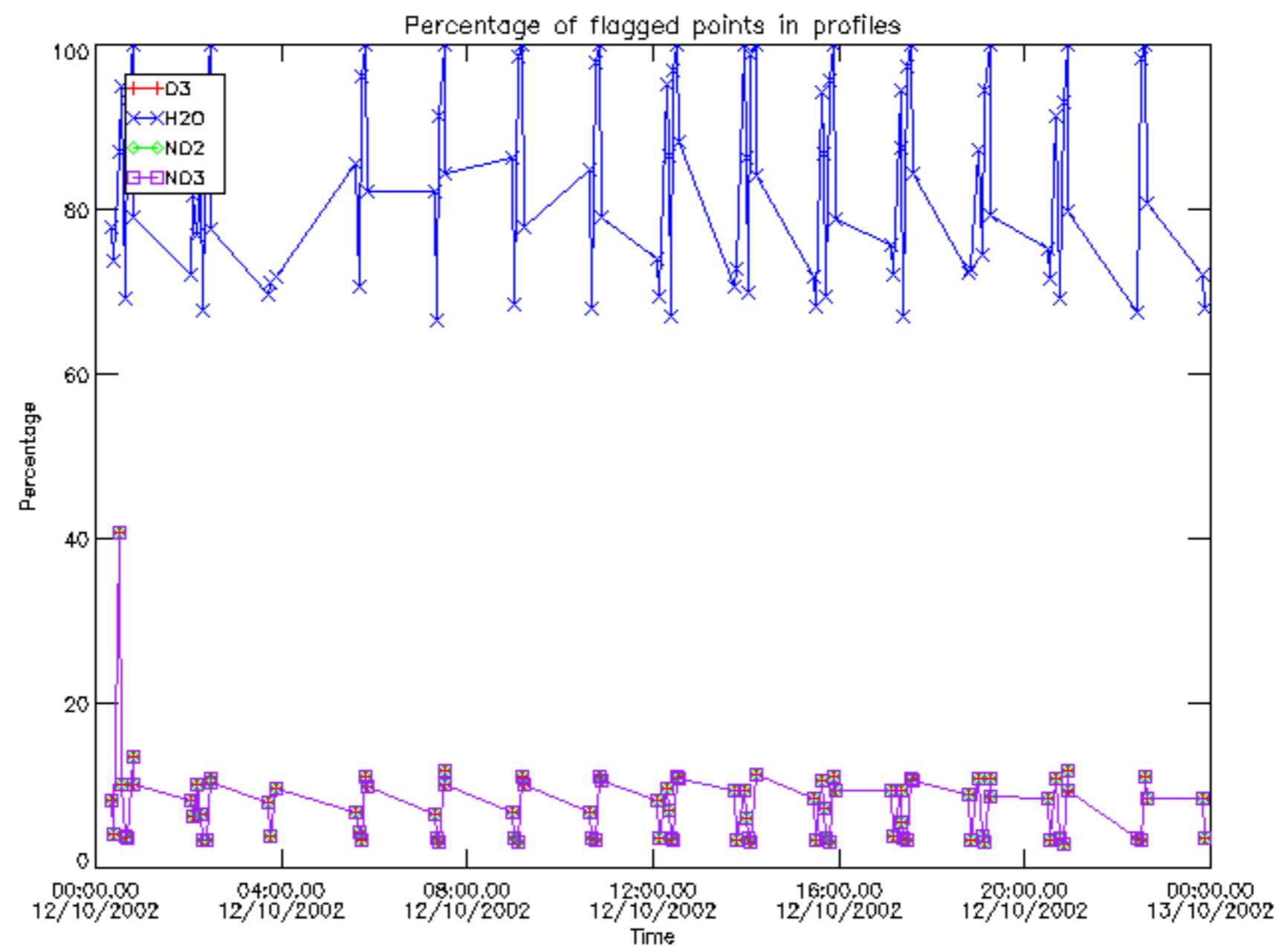




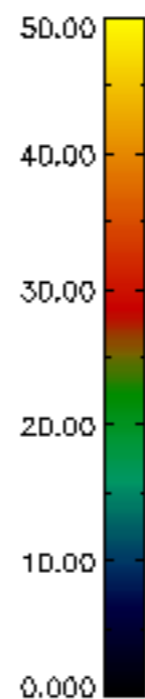
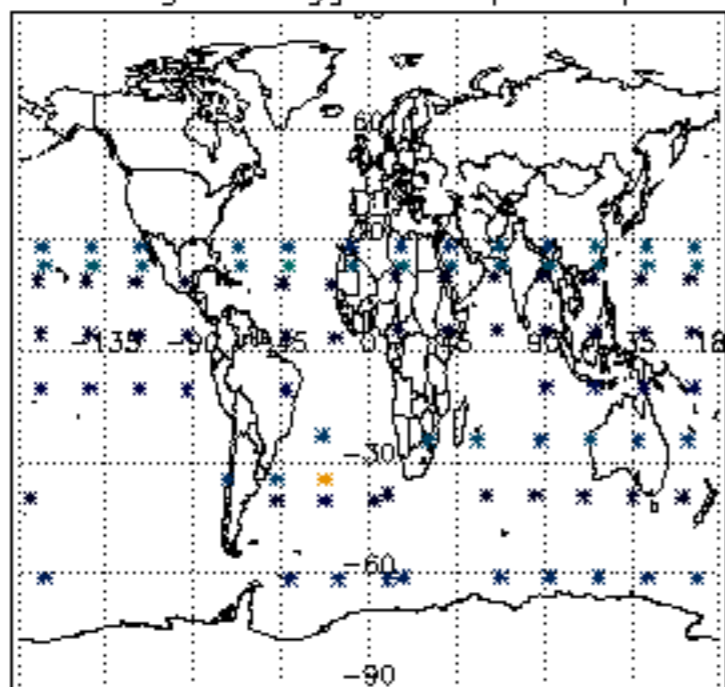




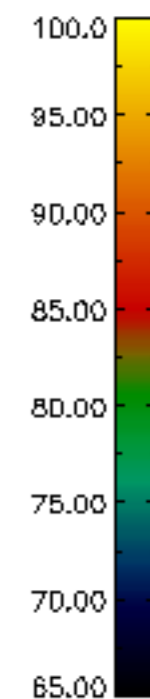
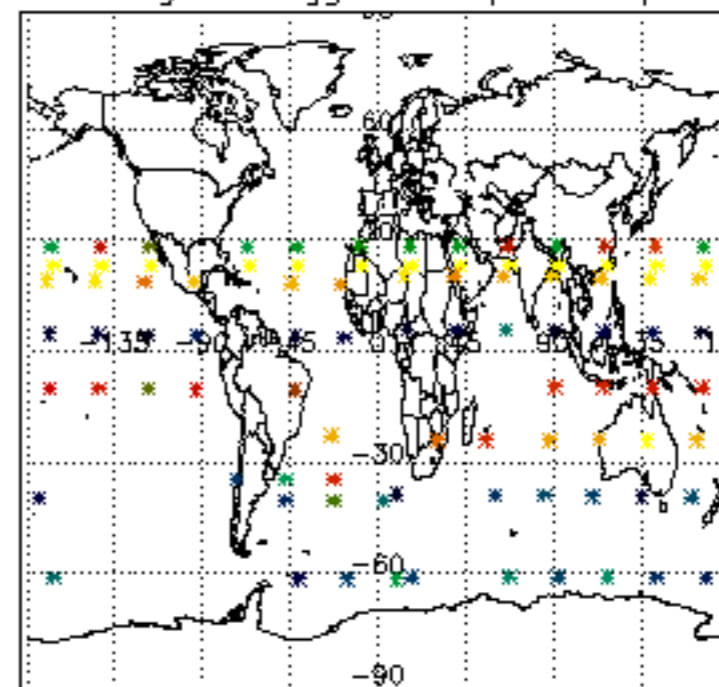




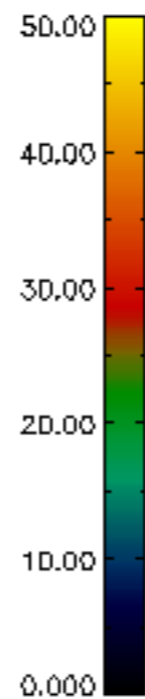
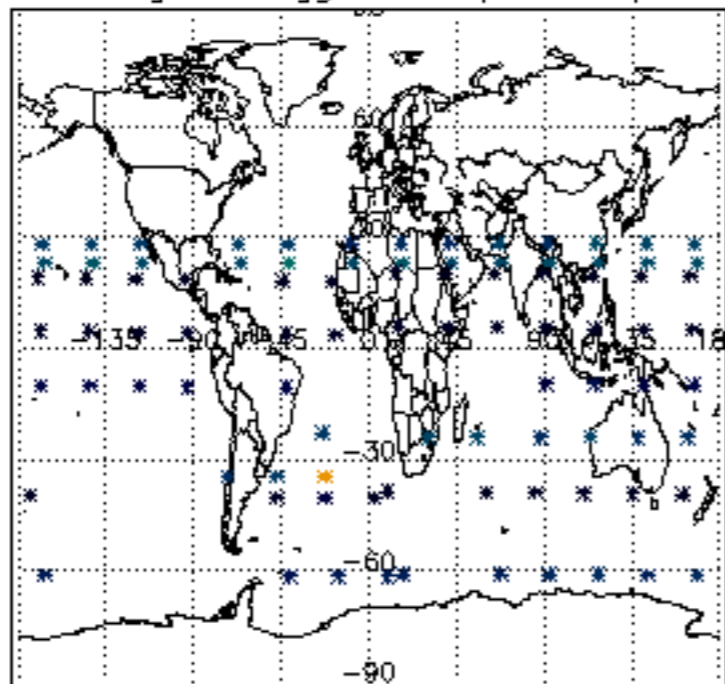
Percentage of flagged data per D3 profile



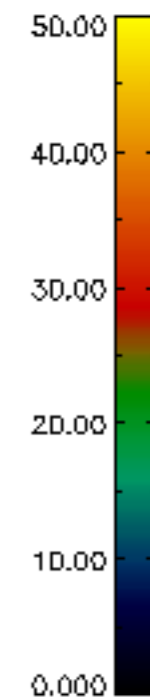
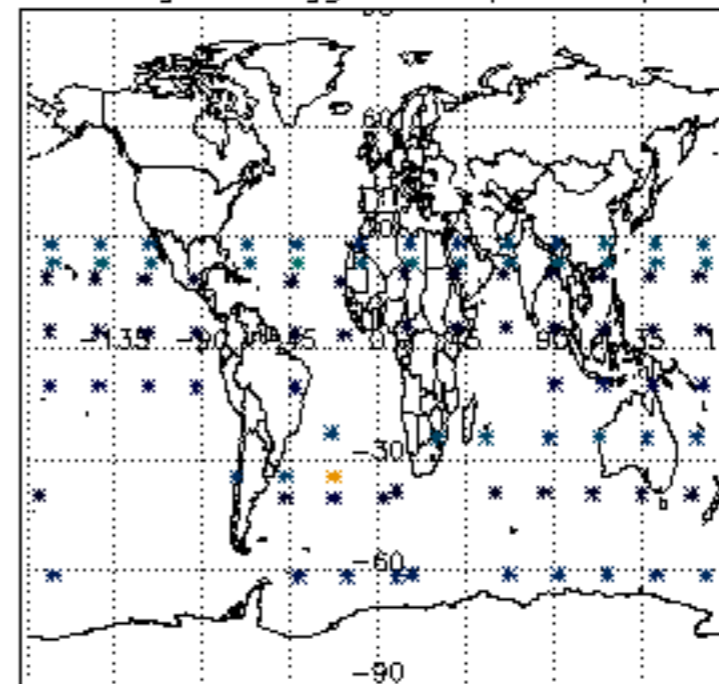
Percentage of flagged data per H2O profile

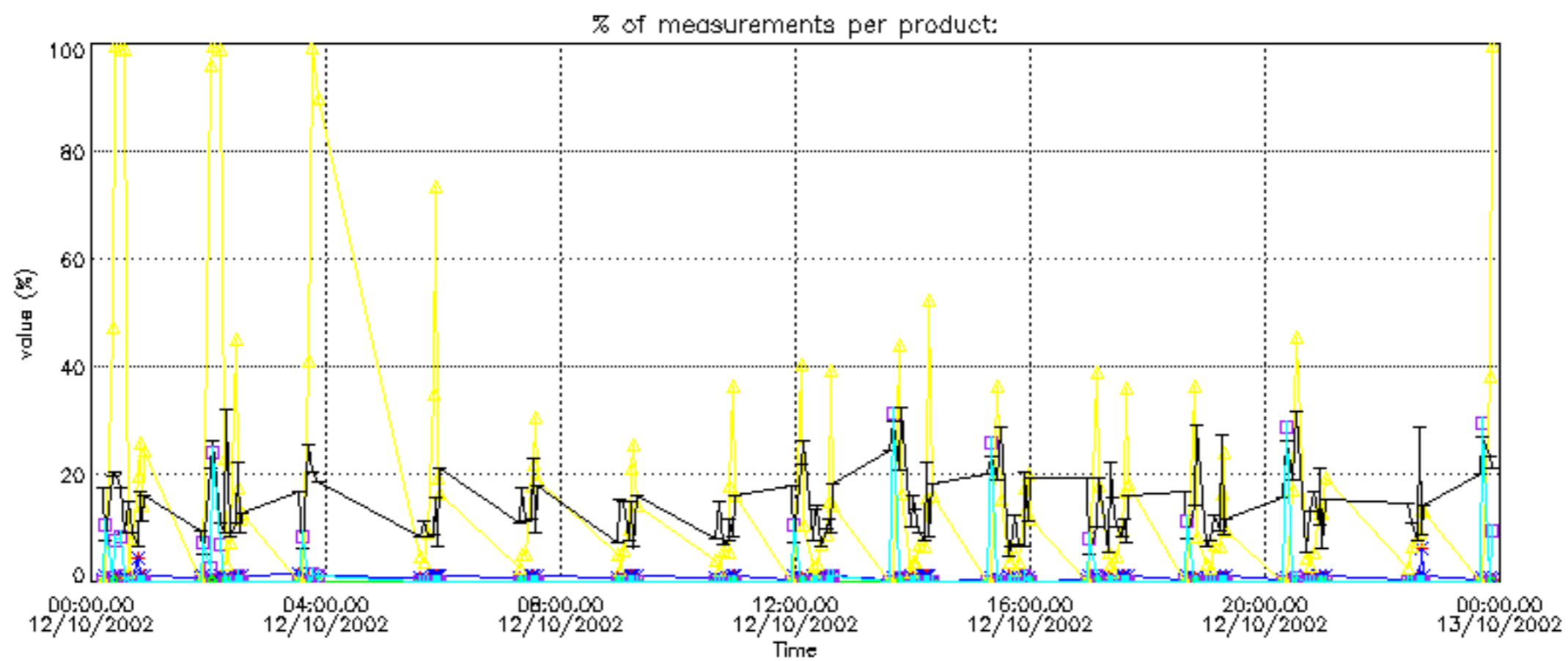
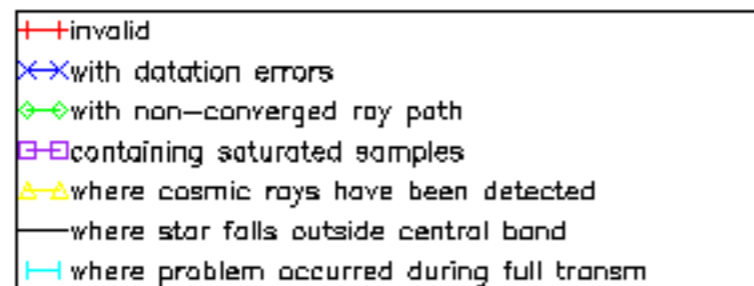


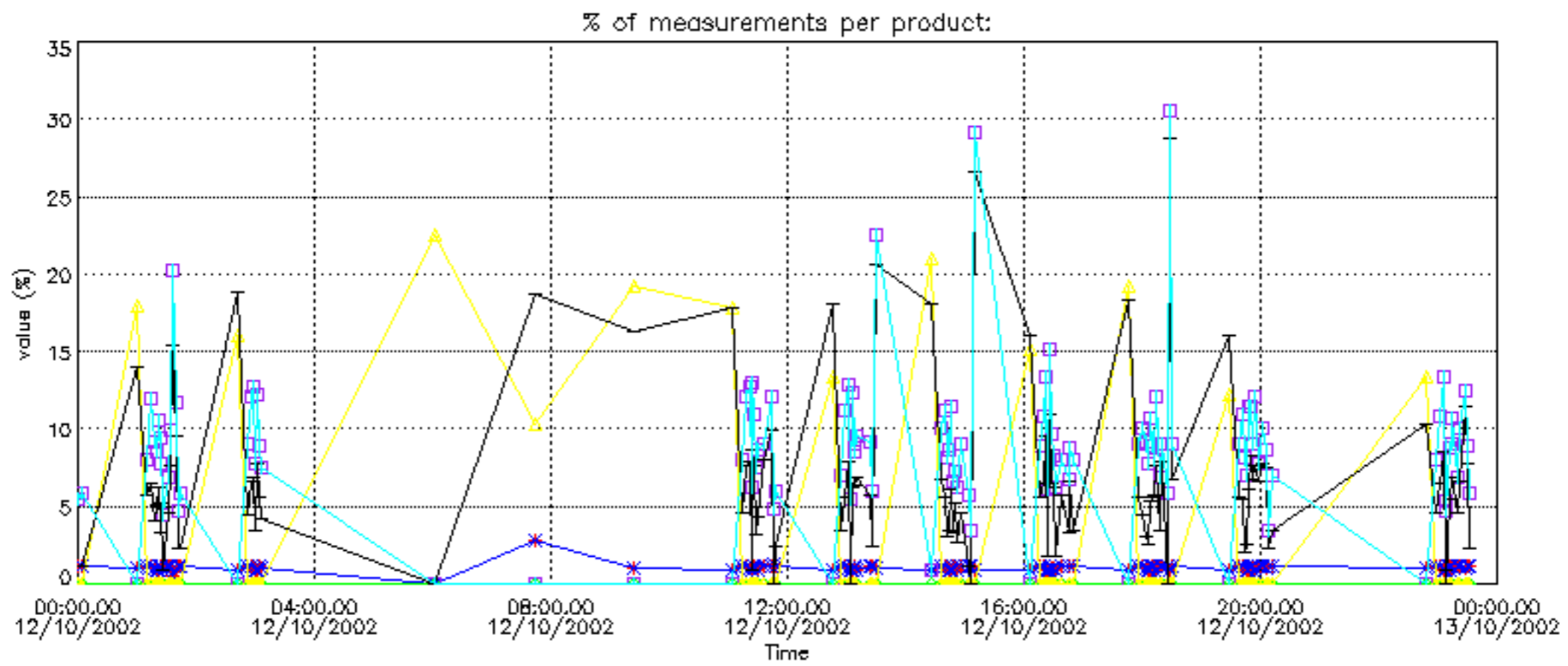
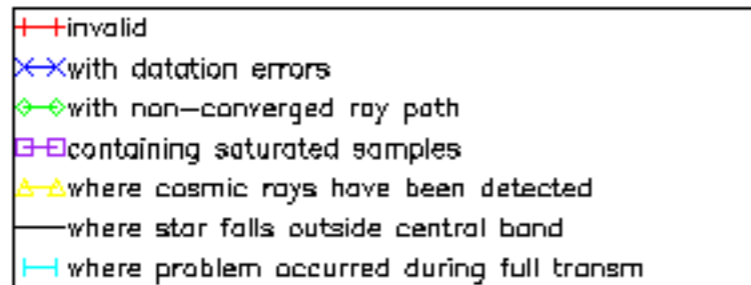
Percentage of flagged data per NO2 profile



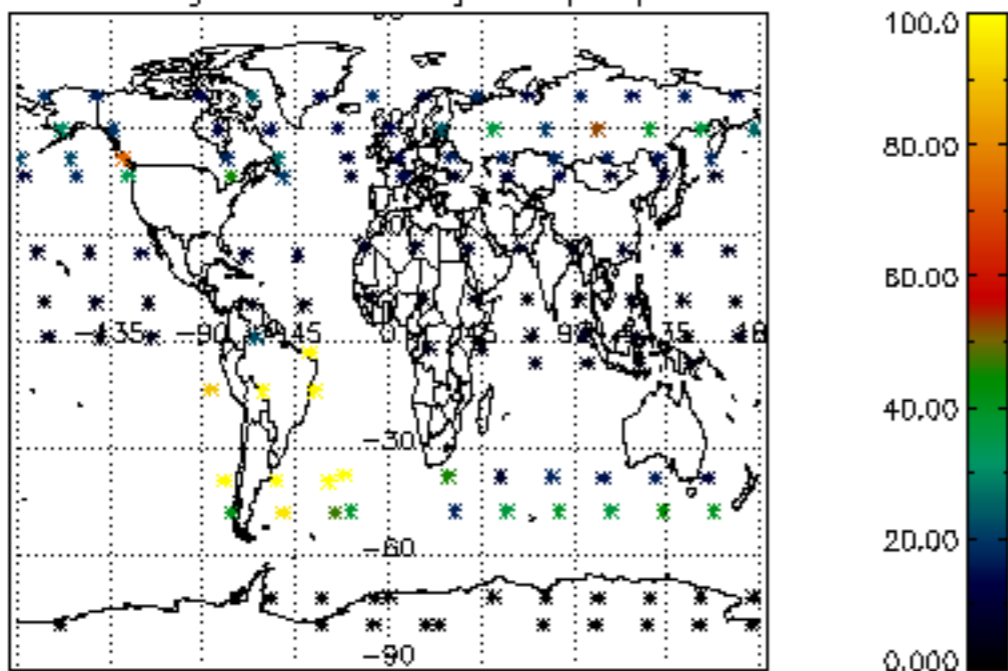
Percentage of flagged data per NO3 profile



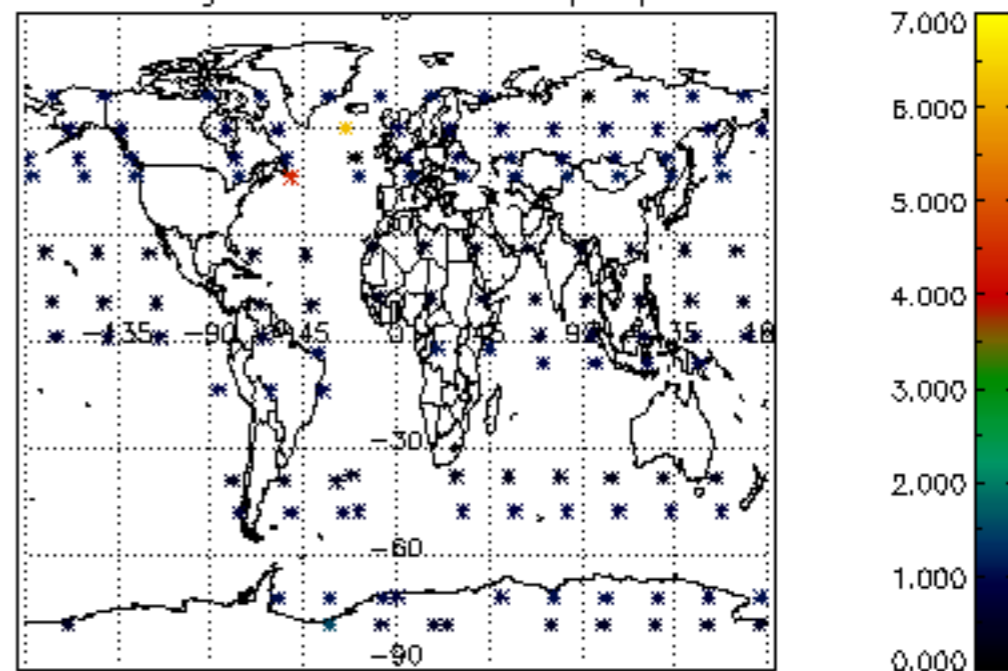




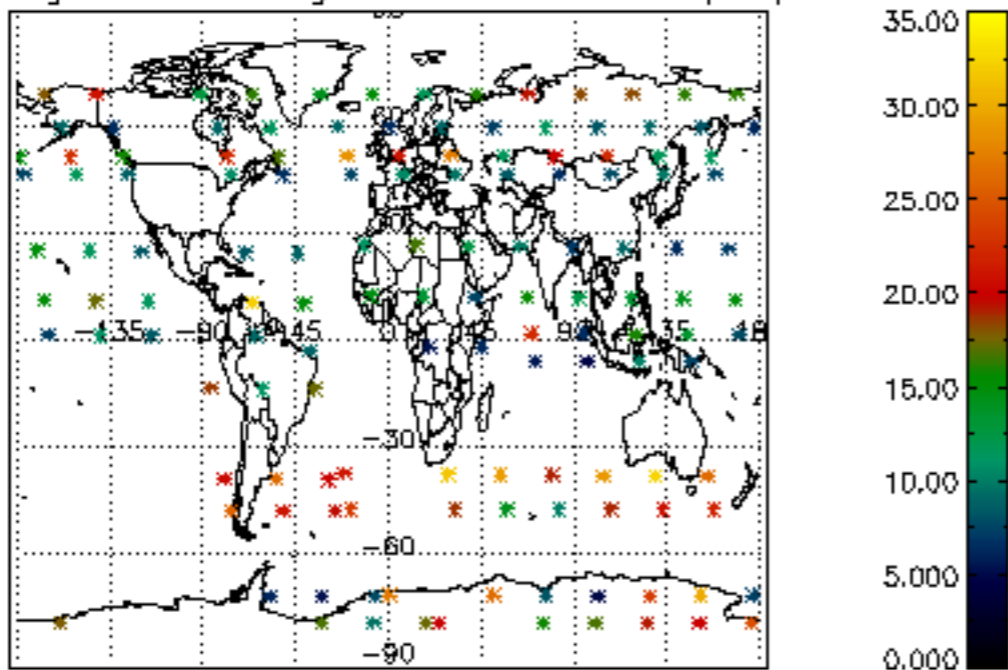
Percentage of cosmic ray hits per profile



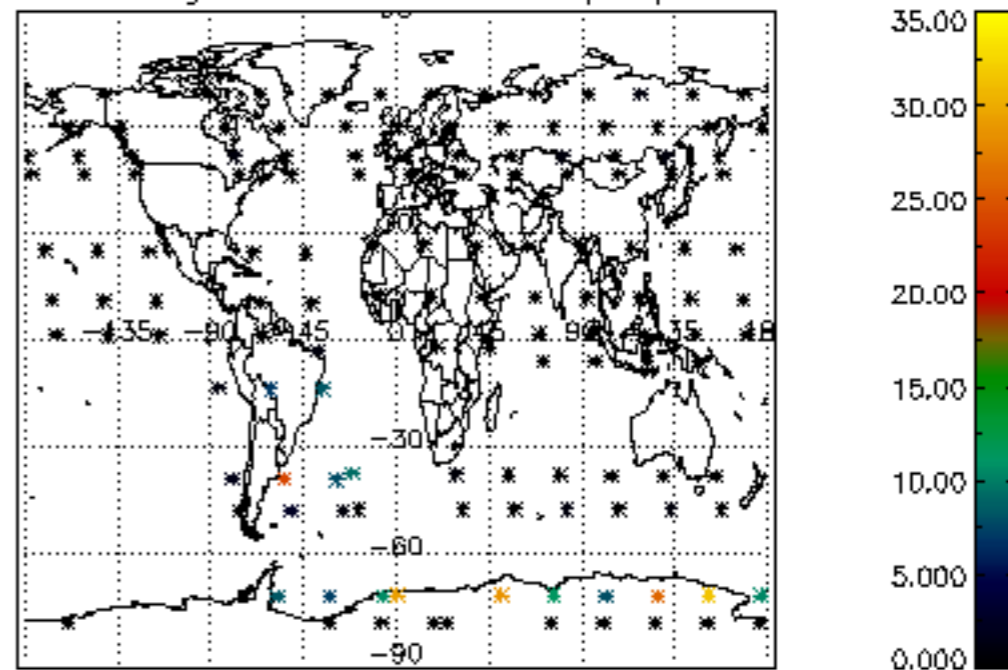
Percentage of datation errors per profile



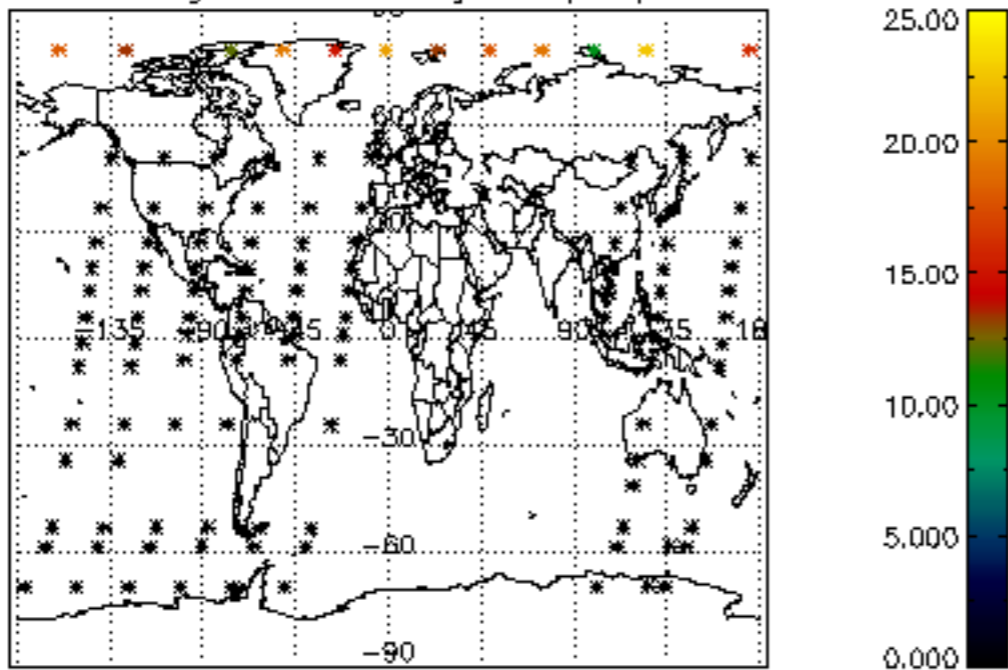
Percentage of star falling outside central band per profile



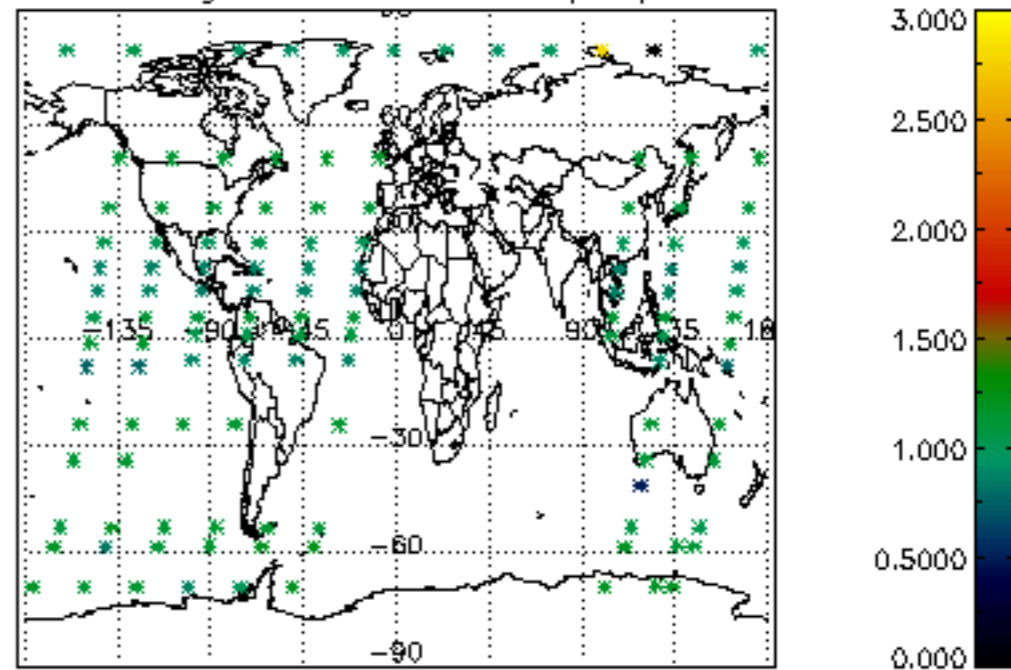
Percentage of saturation errors per profile



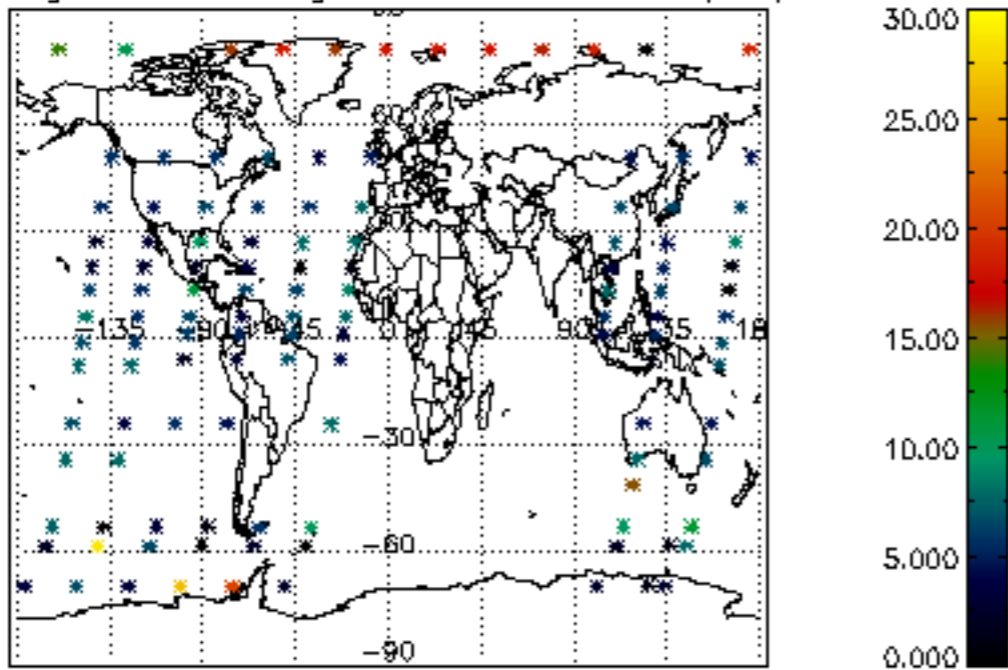
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

