

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 18:09:58
Data source version	GOMOS/6.01
Start time of products	02-09-2002 (02SEP2002 00:00:00)
Stop time of products	03-09-2002 (03SEP2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	461
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

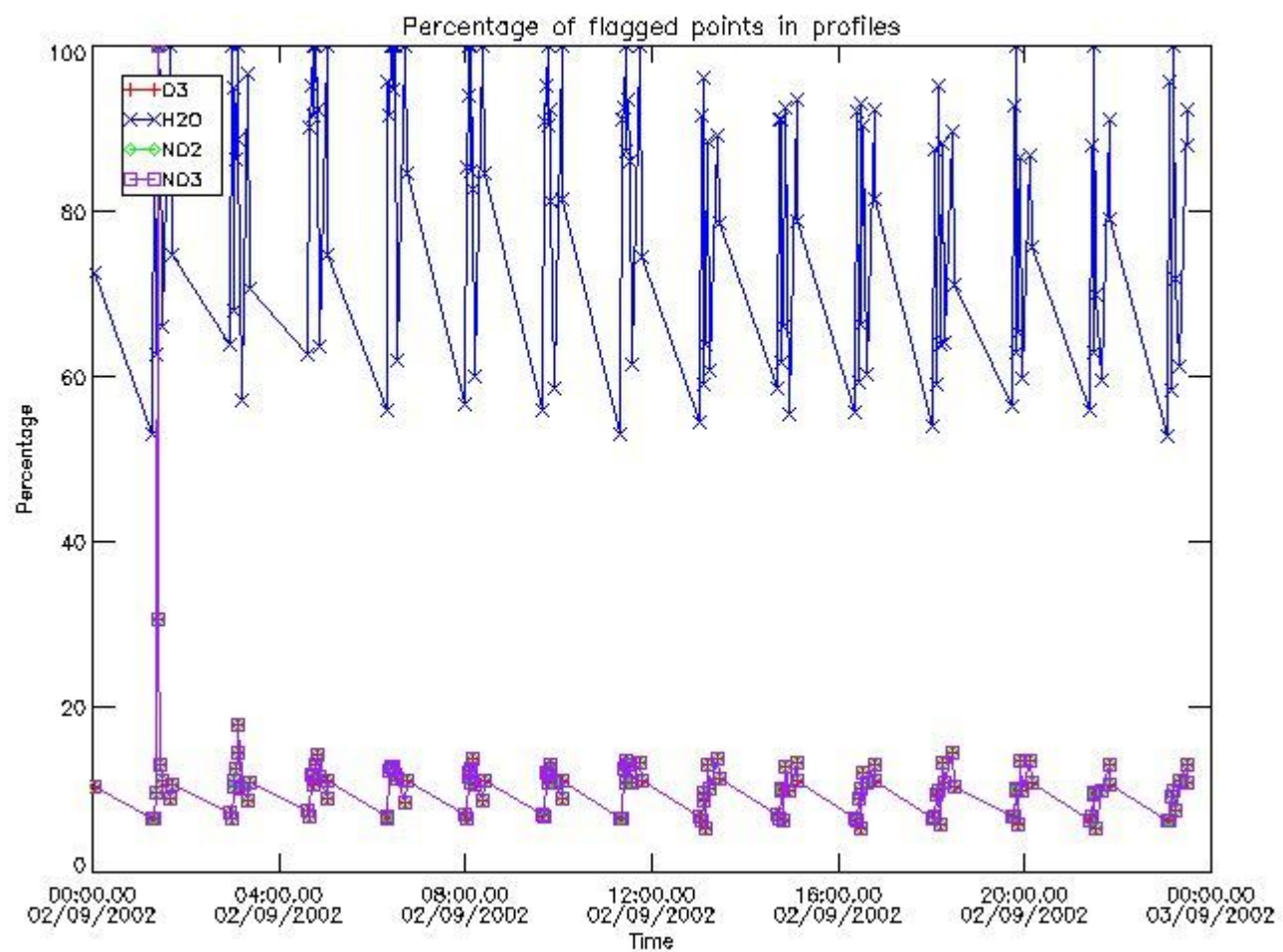
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20020902_000146_000000502009_00088_02647_2626.N1	02-SEP-2002 00:01:46	Dark	49.500	9	Alp Eri	0.45300	24000.	99	2647	No
2	GOM_NL__2PRFIN20020902_000603_000000462009_00088_02647_2627.N1	02-SEP-2002 00:06:03	Straylight	45.500	148	Alp Tuc	2.8780	4100.0	91	2647	No
3	GOM_NL__2PRFIN20020902_000742_000000542009_00088_02647_2628.N1	02-SEP-2002 00:07:42	Straylight	53.500	84	Alp Phe	2.3970	4500.0	107	2647	No
4	GOM_NL__2PRFIN20020902_000943_000000412009_00088_02647_2629.N1	02-SEP-2002 00:09:43	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	2647	No
5	GOM_NL__2PRFIN20020902_001348_000000502009_00088_02647_2630.N1	02-SEP-2002 00:13:48	Straylight	49.500	18	24Alp PsA	1.1660	9700.0	99	2647	No
6	GOM_NL__2PRFIN20020902_001836_000000522009_00088_02647_2631.N1	02-SEP-2002 00:18:36	Bright	51.500	142	49Del Cap	2.8500	8900.0	103	2647	No
7	GOM_NL__2PRFIN20020902_002144_000000402009_00088_02647_2632.N1	02-SEP-2002 00:21:44	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	2647	No
8	GOM_NL__2PRFIN20020902_002309_000000432009_00088_02647_2633.N1	02-SEP-2002 00:23:09	Bright	42.500	162	34Alp Aqr	2.9440	5350.0	85	2647	No
9	GOM_NL__2PRFIN20020902_002609_000000422009_00088_02647_2634.N1	02-SEP-2002 00:26:09	Bright	41.500	61	8Eps Peg	2.1000	3900.0	83	2647	No
10	GOM_NL__2PRFIN20020902_002859_000000502009_00088_02647_2635.N1	02-SEP-2002 00:28:59	Bright	49.500	90	54Alp Peg	2.4870	11000.	99	2647	No
11	GOM_NL__2PRFIN20020902_003245_000000742009_00088_02647_2636.N1	02-SEP-2002 00:32:45	Bright	73.500	140	88Gam Peg	2.8340	26000.	147	2647	No
12	GOM_NL__2PRFIN20020902_003614_000000382009_00088_02647_2637.N1	02-SEP-2002 00:36:14	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	2647	No
13	GOM_NL__2PRFIN20020902_004108_000000402009_00088_02647_2638.N1	02-SEP-2002 00:41:08	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	2647	No
14	GOM_NL__2PRFIN20020902_004350_000000442009_00088_02647_2639.N1	02-SEP-2002 00:43:50	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	2647	No
15	GOM_NL__2PRFIN20020902_004559_000000472009_00088_02647_2640.N1	02-SEP-2002 00:45:59	Bright	46.500	76	27Gam Cas	2.3000	30000.	93	2647	No
16	GOM_NL__2PRFIN20020902_004849_000000382009_00088_02647_2641.N1	02-SEP-2002 00:48:49	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	2647	No
17	GOM_NL__2PRFIN20020902_005121_000000912009_00088_02647_2642.N1	02-SEP-2002 00:51:21	Bright	91.000	73	57Gam1And	2.2600	13100.	182	2647	No
18	GOM_NL__2PRFIN20020902_005522_000000662009_00088_02647_2643.N1	02-SEP-2002 00:55:22	Bright	65.500	35	33Alp Per	1.7950	6250.0	131	2647	No
19	GOM_NL__2PRFIN20020902_005828_000001022009_00088_02647_2644.N1	02-SEP-2002 00:58:28	Bright	101.50	79	26Bet Per	2.3100	13100.	203	2647	No
20	GOM_NL__2PRFIN20020902_010148_000000842009_00088_02647_2645.N1	02-SEP-2002 01:01:48	Bright	84.000	149	45Eps Per	2.8880	30000.	168	2647	No
21	GOM_NL__2PRFIN20020902_010548_000000422009_00088_02647_2646.N1	02-SEP-2002 01:05:48	Bright	42.000	24	66Alp Gem	1.5800	10200.	84	2647	No
22	GOM_NL__2PRFIN20020902_010827_000000752009_00088_02647_2647.N1	02-SEP-2002 01:08:27	Twilight	74.500	28	12Bet Tau	1.6500	15200.	149	2647	No
23	GOM_NL__2PRFIN20020902_011132_000000512009_00088_02647_2648.N1	02-SEP-2002 01:11:32	Twilight	51.000	44	24Gam Gem	1.9280	11000.	102	2647	No
24	GOM_NL__2PRFIN20020902_011331_000000532009_00088_02647_2649.N1	02-SEP-2002 01:13:31	Twilight	52.500	8	10Alp CMi	0.40000	6500.0	105	2647	No
25	GOM_NL__2PRFIN20020902_011613_000000782009_00088_02647_2650.N1	02-SEP-2002 01:16:13	Dark	78.000	14	58Alp Ori	0.87000	3000.0	156	2647	No
26	GOM_NL__2PRFIN20020902_011835_000000792009_00088_02647_2651.N1	02-SEP-2002 01:18:35	Dark	78.500	27	24Gam Ori	1.6360	26000.	157	2647	No
27	GOM_NL__2PRFIN20020902_012116_000000582009_00088_02647_2652.N1	02-SEP-2002 01:21:16	Dark	58.000	1	9Alp CMa	-1.4400	11000.	116	2647	No
28	GOM_NL__2PRFIN20020902_012401_000000462009_00088_02647_2653.N1	02-SEP-2002 01:24:01	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	2647	No
29	GOM_NL__2PRFIN20020902_012529_000000422009_00088_02647_2654.N1	02-SEP-2002 01:25:29	Dark	41.500	70	Zet Pup	2.2460	39000.	83	2647	No
30	GOM_NL__2PRFIN20020902_012725_000000432009_00088_02647_2655.N1	02-SEP-2002 01:27:25	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	2647	No
31	GOM_NL__2PRFIN20020902_013045_000000462009_00088_02647_2656.N1	02-SEP-2002 01:30:45	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	2647	No
32	GOM_NL__2PRFIN20020902_014032_000000582009_00089_02648_2695.N1	02-SEP-2002 01:40:32	Dark	57.500	157	The1Eri	2.9060	9300.0	115	2648	No
33	GOM_NL__2PRFIN20020902_014223_000000482009_00089_02648_2696.N1	02-SEP-2002 01:42:23	Dark	48.000	9	Alp Eri	0.45300	24000.	96	2648	No
34	GOM_NL__2PRFIN20020902_014639_000000432009_00089_02648_2697.N1	02-SEP-2002 01:46:39	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	2648	No
35	GOM_NL__2PRFIN20020902_014819_000000512009_00089_02648_2698.N1	02-SEP-2002 01:48:19	Straylight	50.500	84	Alp Phe	2.3970	4500.0	101	2648	No
36	GOM_NL__2PRFIN20020902_015019_000000432009_00089_02648_2699.N1	02-SEP-2002 01:50:19	Straylight	42.500	31	Alp Gru	1.7340	15200.	85	2648	No
37	GOM_NL__2PRFIN20020902_015424_000000482009_00089_02648_2700.N1	02-SEP-2002 01:54:24	Straylight	47.500	18	24Alp PsA	1.1660	9700.0	95	2648	No
38	GOM_NL__2PRFIN20020902_015912_000000422009_00089_02648_2701.N1	02-SEP-2002 01:59:12	Bright	41.500	142	49Del Cap	2.8500	8900.0	83	2648	No
39	GOM_NL__2PRFIN20020902_020220_000000402009_00089_02648_2702.N1	02-SEP-2002 02:02:20	Bright	40.000	154	22Bet Aqr	2.8990	5700.0	80	2648	No
40	GOM_NL__2PRFIN20020902_020346_000000422009_00089_02648_2703.N1	02-SEP-2002 02:03:46	Bright	42.000	162	34Alp Aqr	2.9440	5350.0	84	2648	No
41	GOM_NL__2PRFIN20020902_020645_000000412009_00089_02648_2704.N1	02-SEP-2002 02:06:45	Bright	40.500	61	8Eps Peg	2.1000	3900.0	81	2648	No
42	GOM_NL__2PRFIN20020902_020935_000000502009_00089_02648_2705.N1	02-SEP-2002 02:09:35	Bright	50.000	90	54Alp Peg	2.4870	11000.	100	2648	No

456	GOM_NL__2PRFIN20020902_234214_000000492009_00102_02661_2724.N1	02-SEP-2002 23:42:14	Straylight	48.500	18	24Alp PsA	1.1660	9700.0	97	2661	No
457	GOM_NL__2PRFIN20020902_234701_000000412009_00102_02661_2725.N1	02-SEP-2002 23:47:01	Bright	41.000	142	49Del Cap	2.8500	8900.0	82	2661	No
458	GOM_NL__2PRFIN20020902_235008_000000402009_00102_02661_2726.N1	02-SEP-2002 23:50:08	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	2661	No
459	GOM_NL__2PRFIN20020902_235133_000000412009_00102_02661_2727.N1	02-SEP-2002 23:51:33	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	2661	No
460	GOM_NL__2PRFIN20020902_235433_000000402009_00102_02661_2728.N1	02-SEP-2002 23:54:33	Bright	40.000	61	8Eps Peg	2.1000	3900.0	80	2661	No
461	GOM_NL__2PRFIN20020902_235716_000000492009_00102_02661_2729.N1	02-SEP-2002 23:57:16	Bright	48.500	90	54Alp Peg	2.4870	11000.	97	2661	No

3. Quality information per product

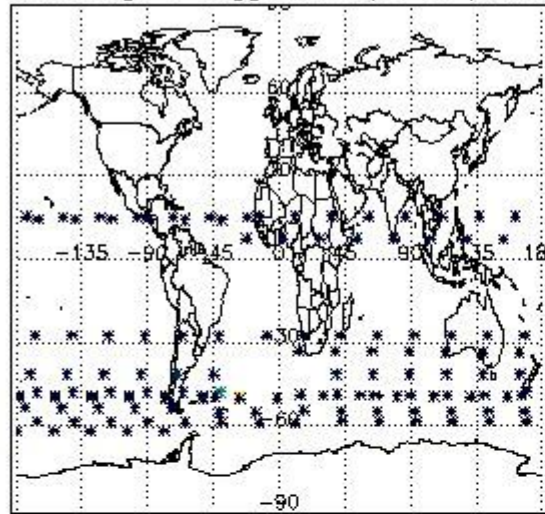
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

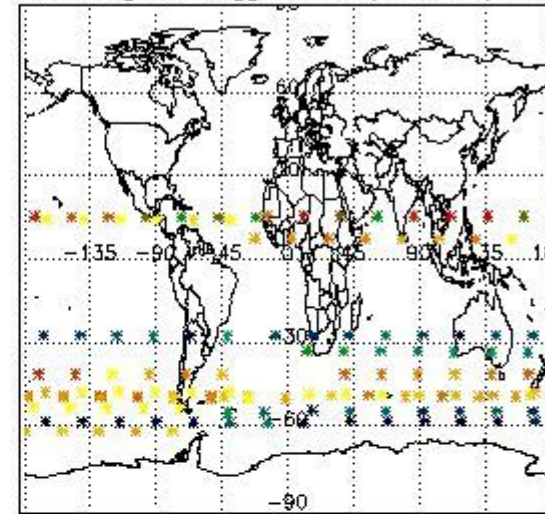


3.2 Plot quality information per product (world map)

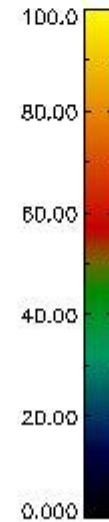
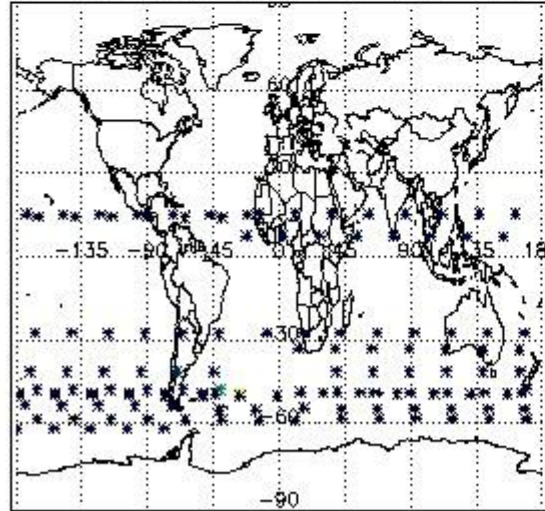
Percentage of flagged data per O3 profile



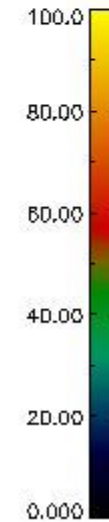
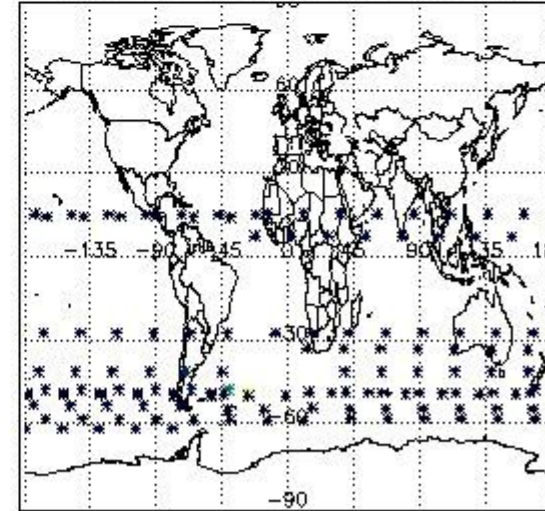
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

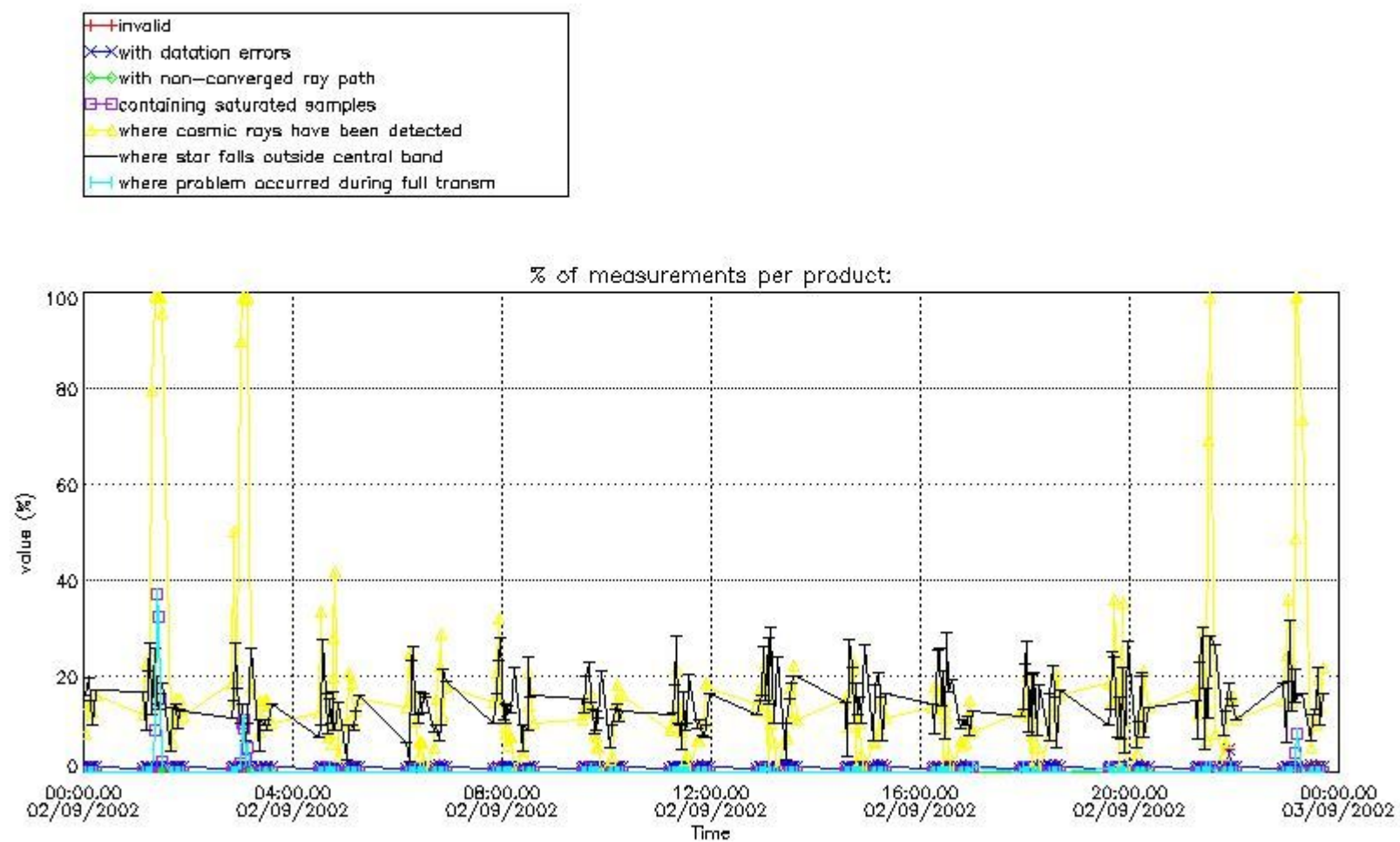


4. Level 1 quality information per product

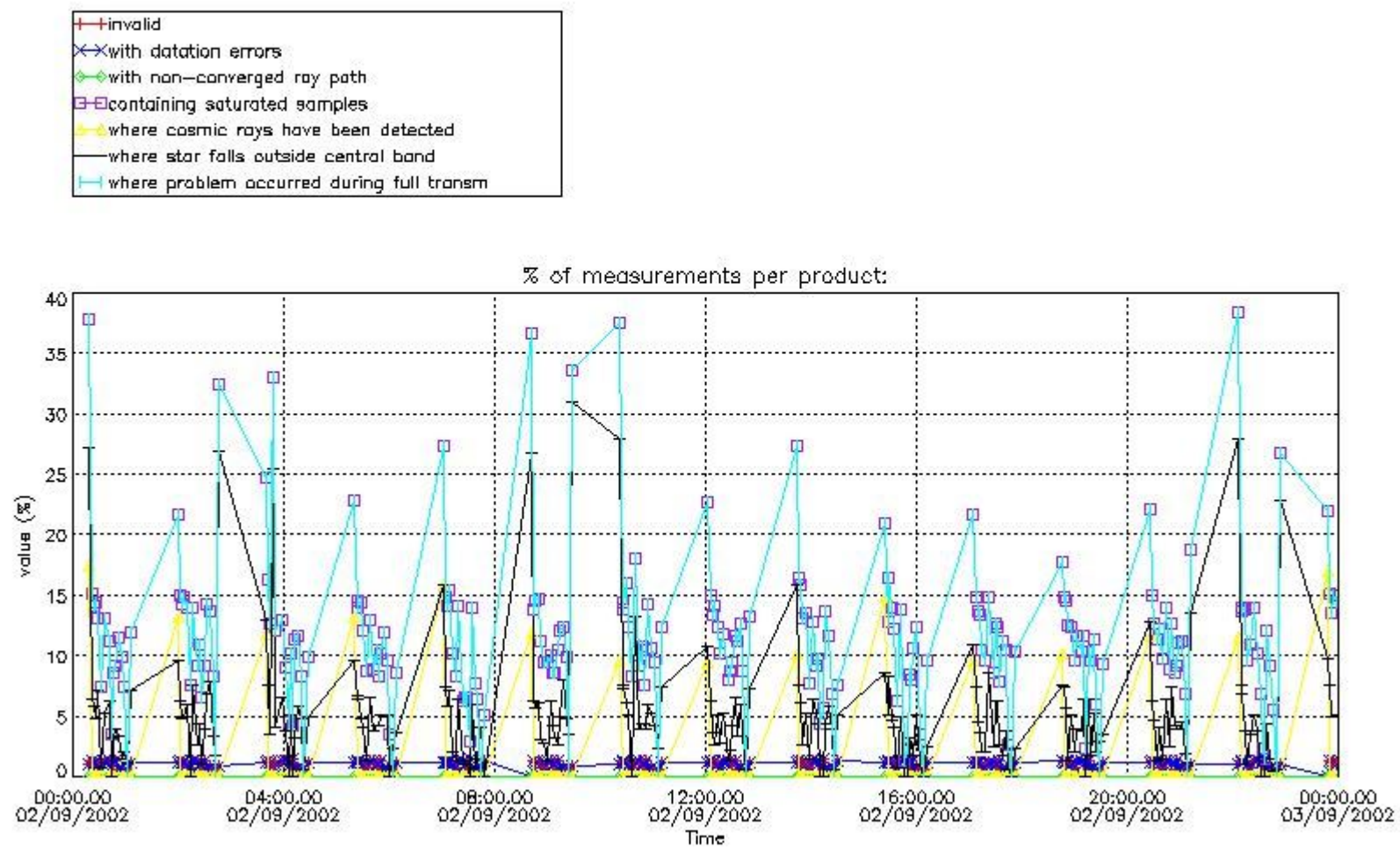
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

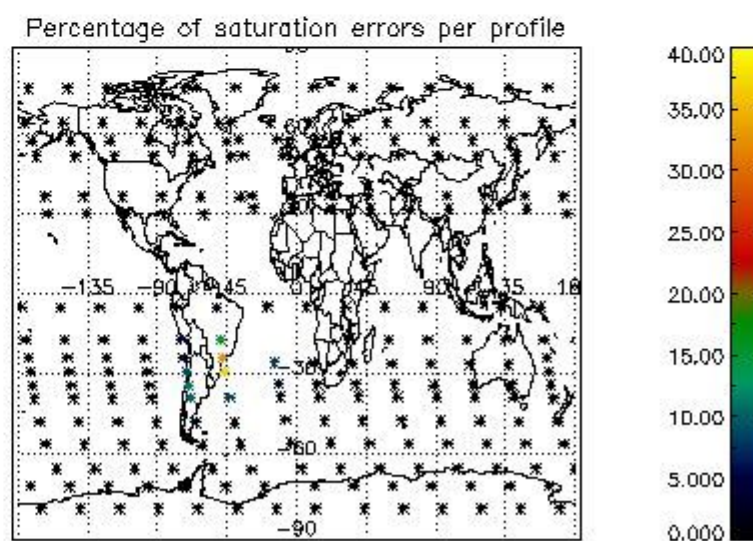
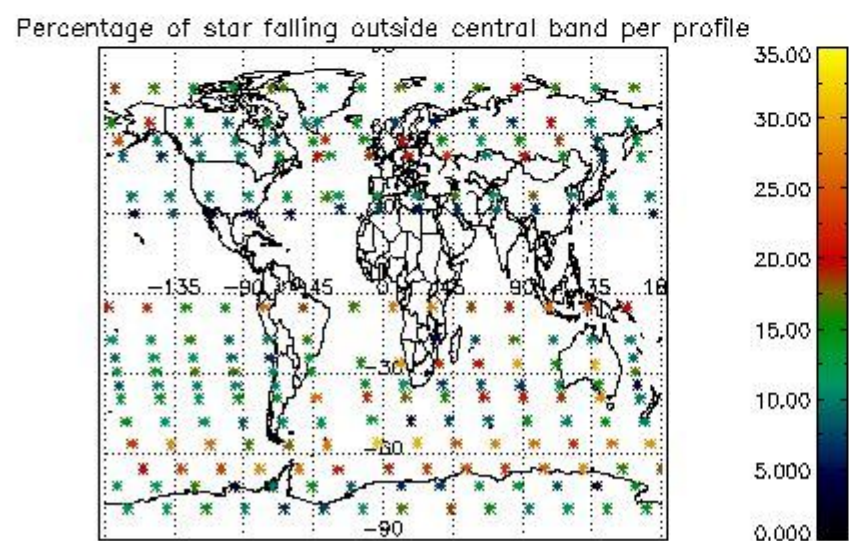
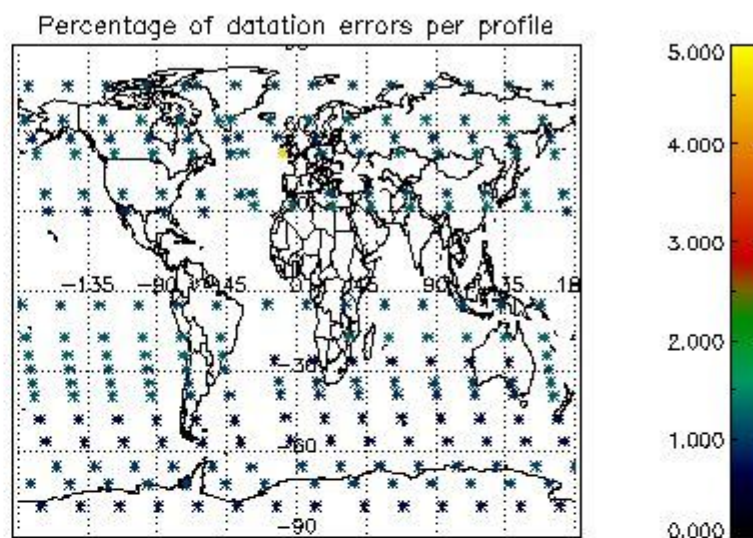
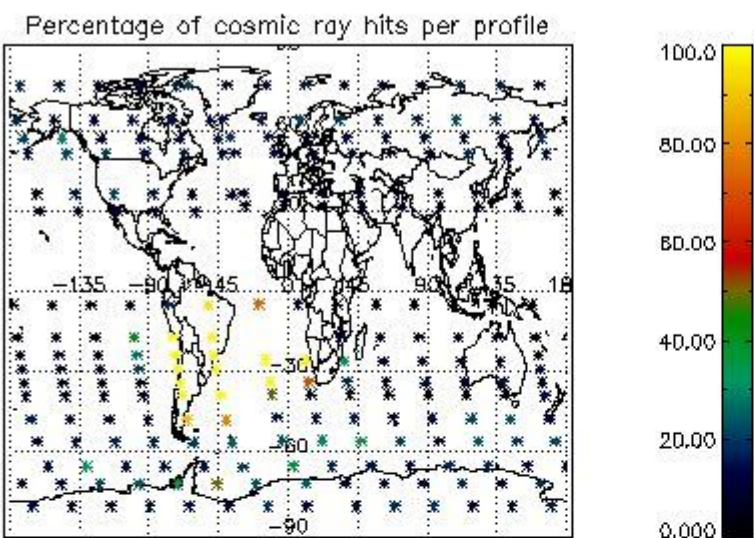


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

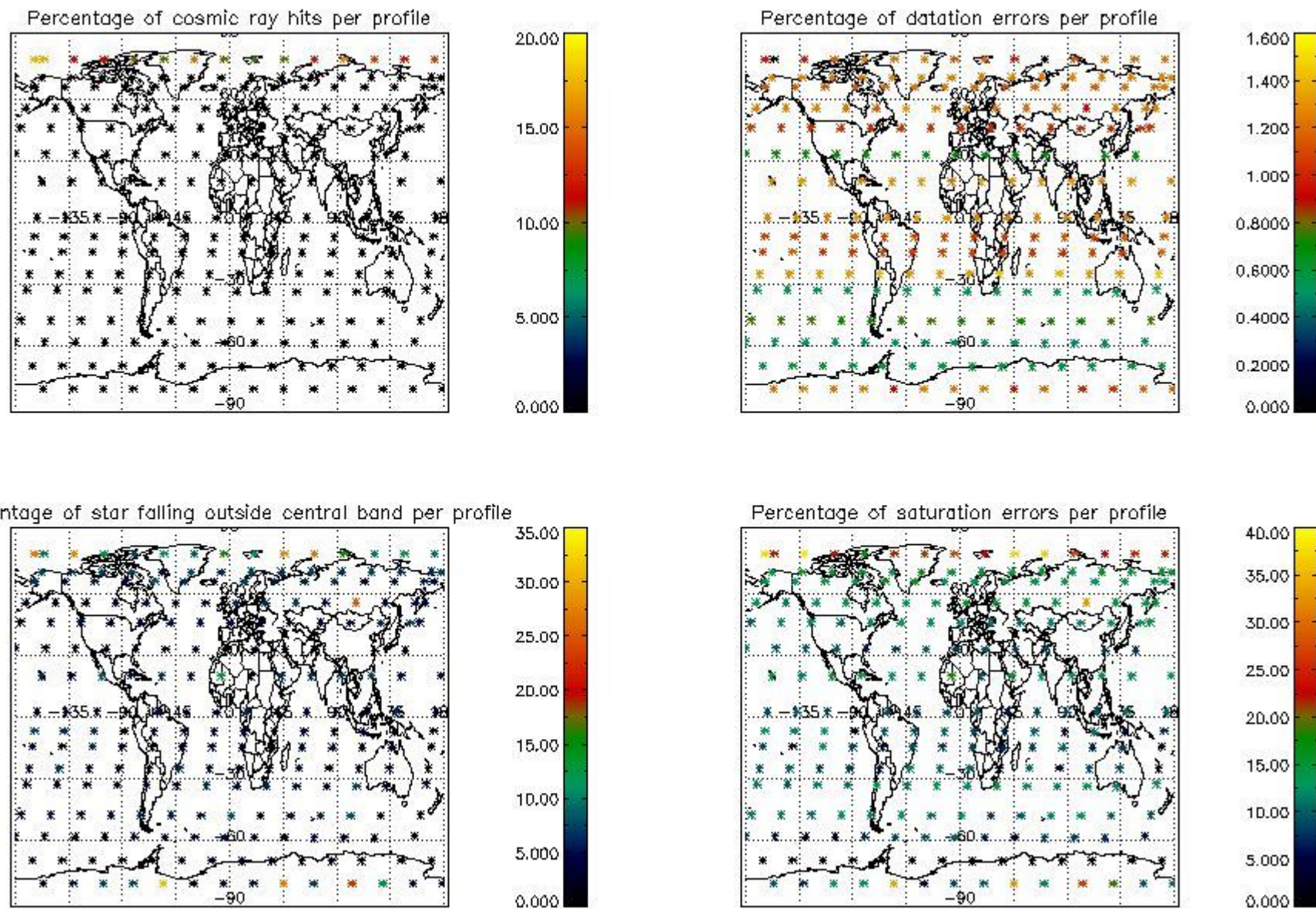


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

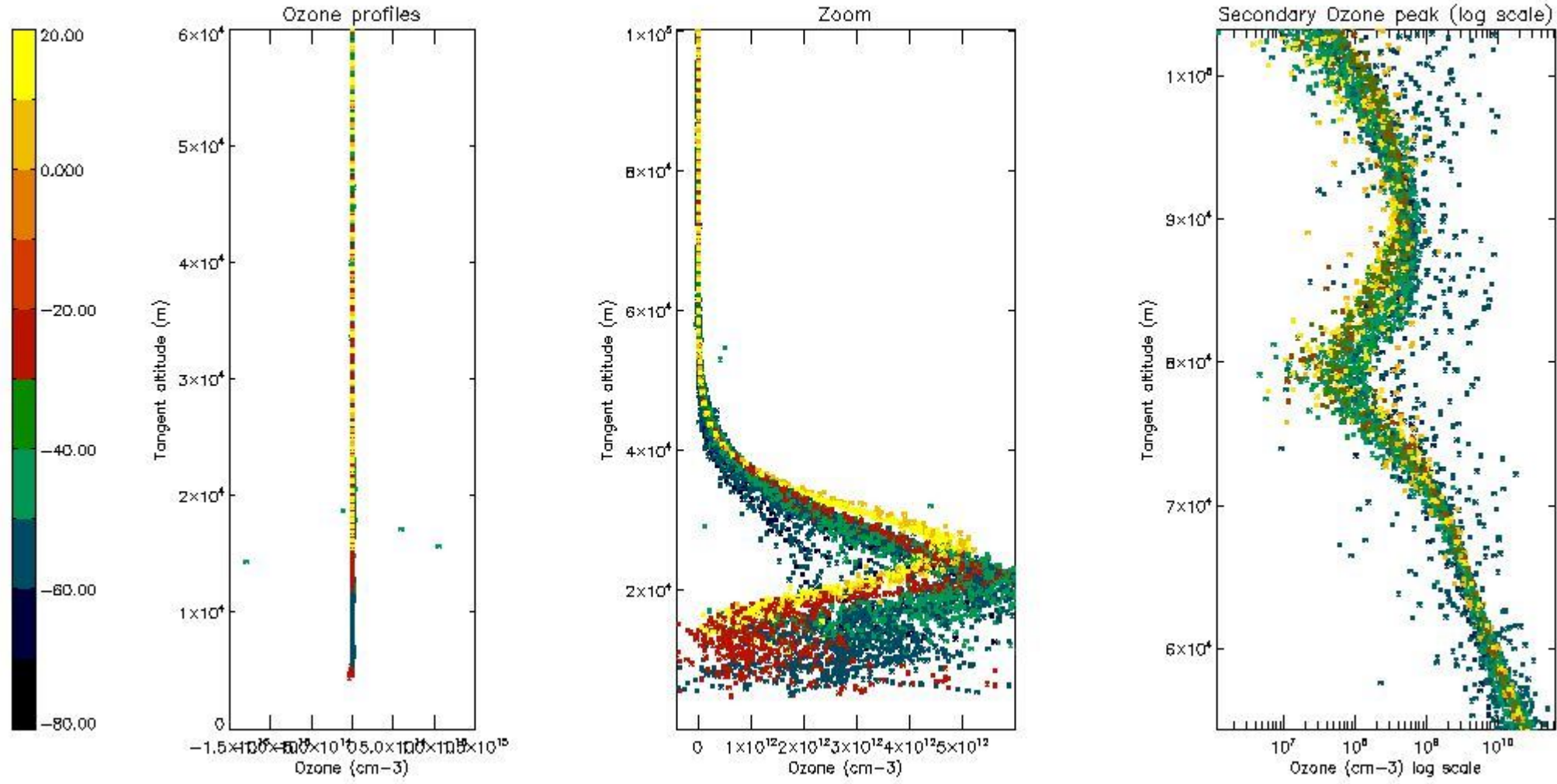
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	20

STD < 10	18
STD < 5	15

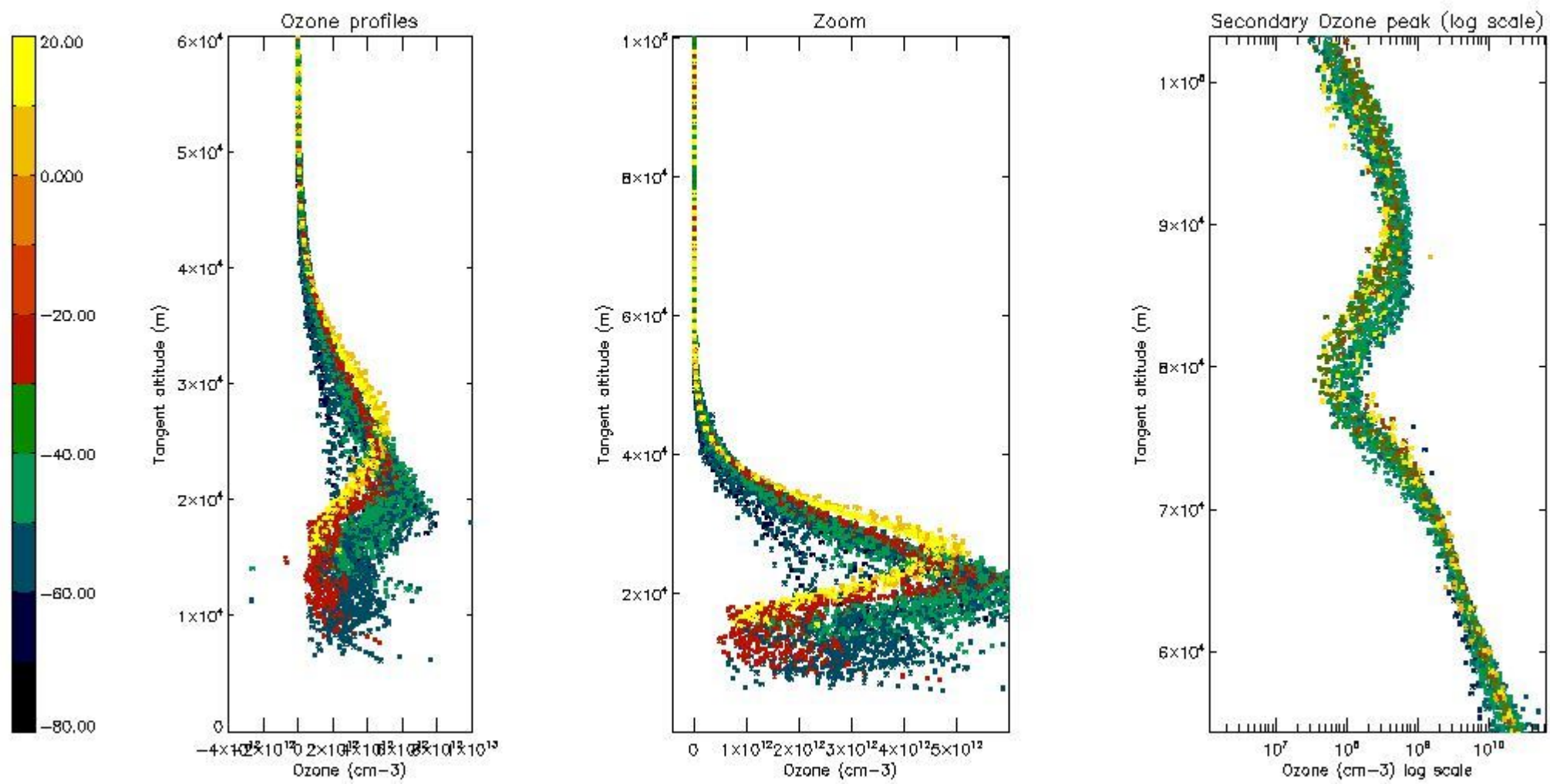
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



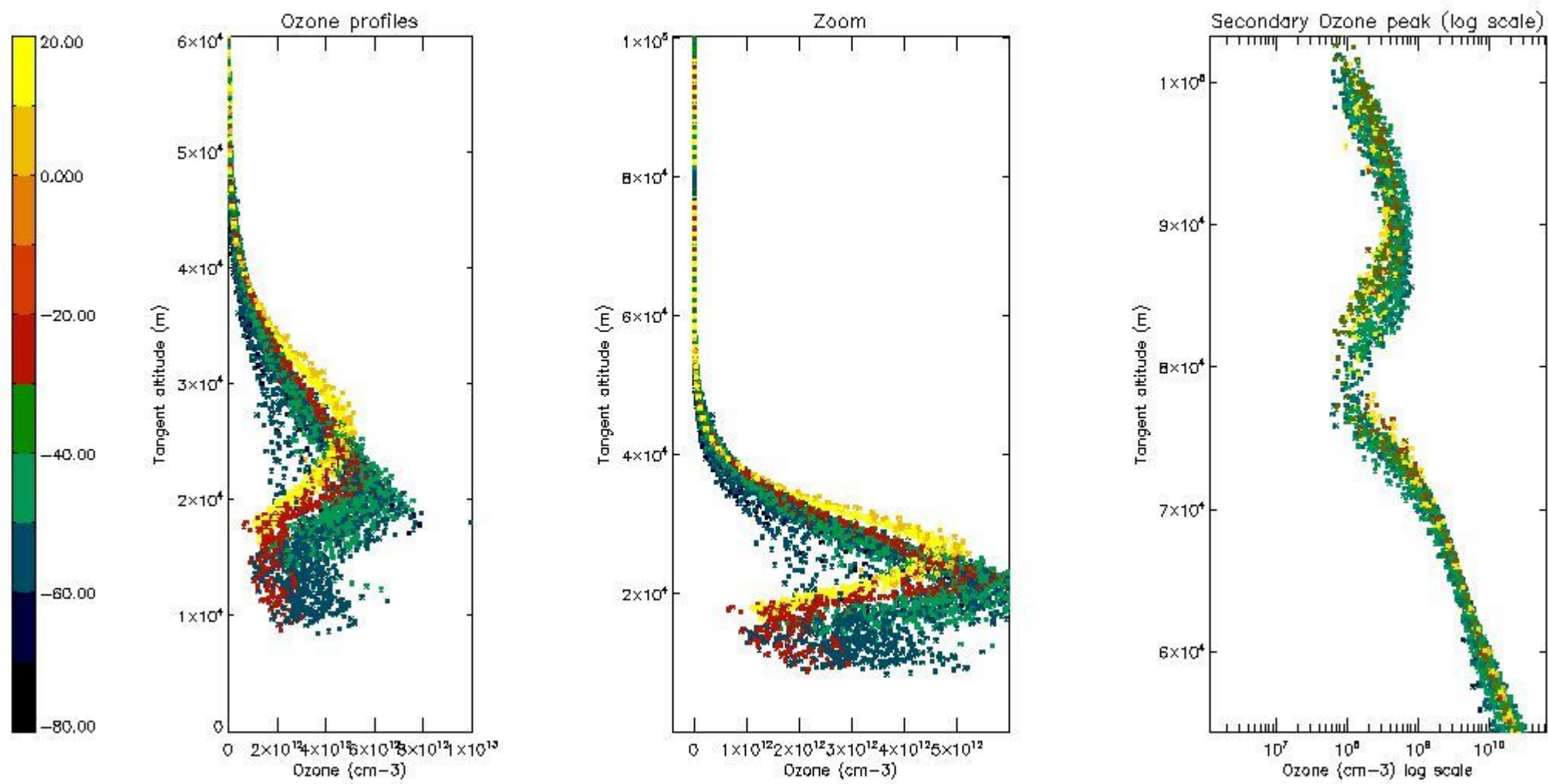
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



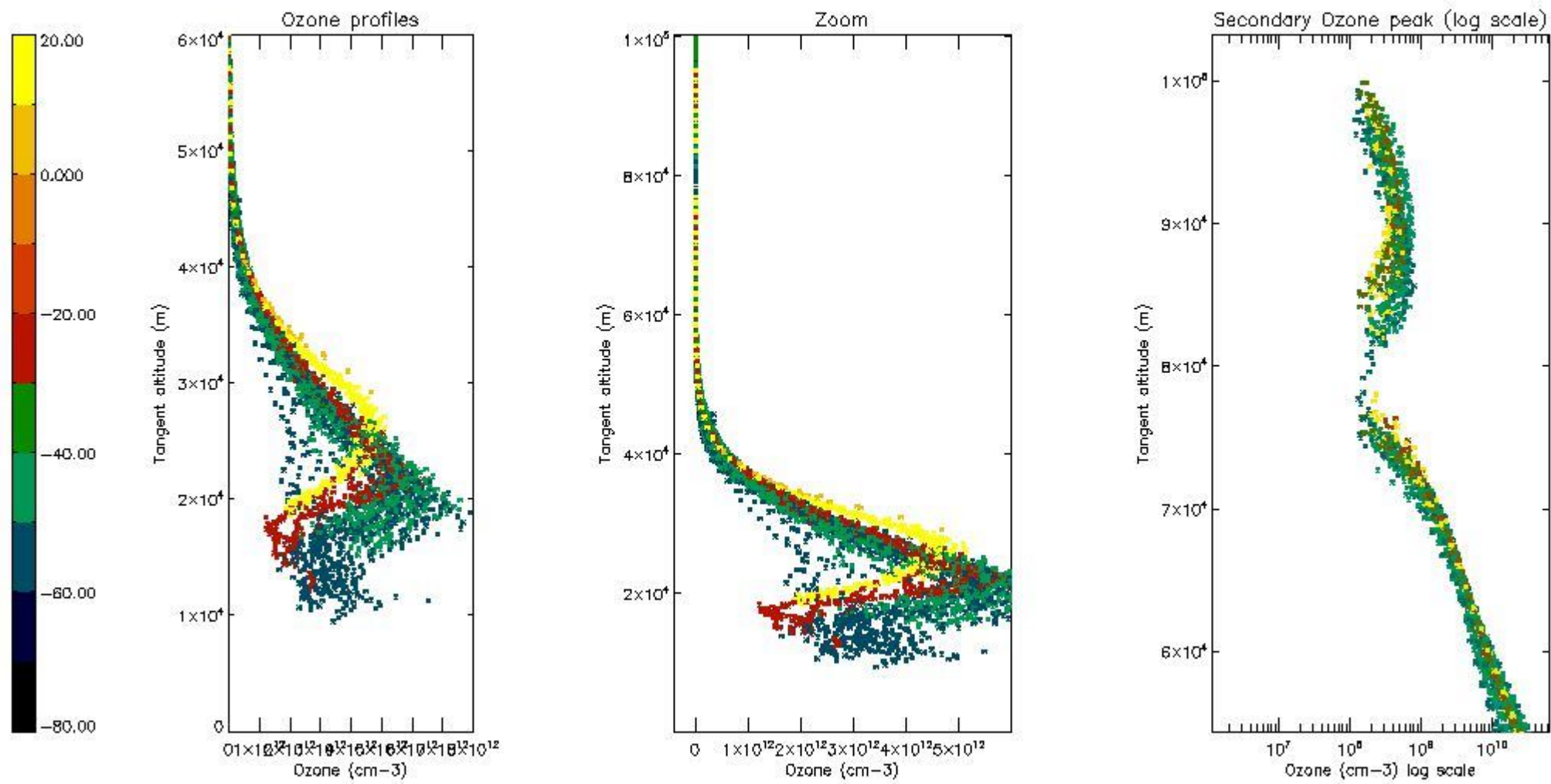
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



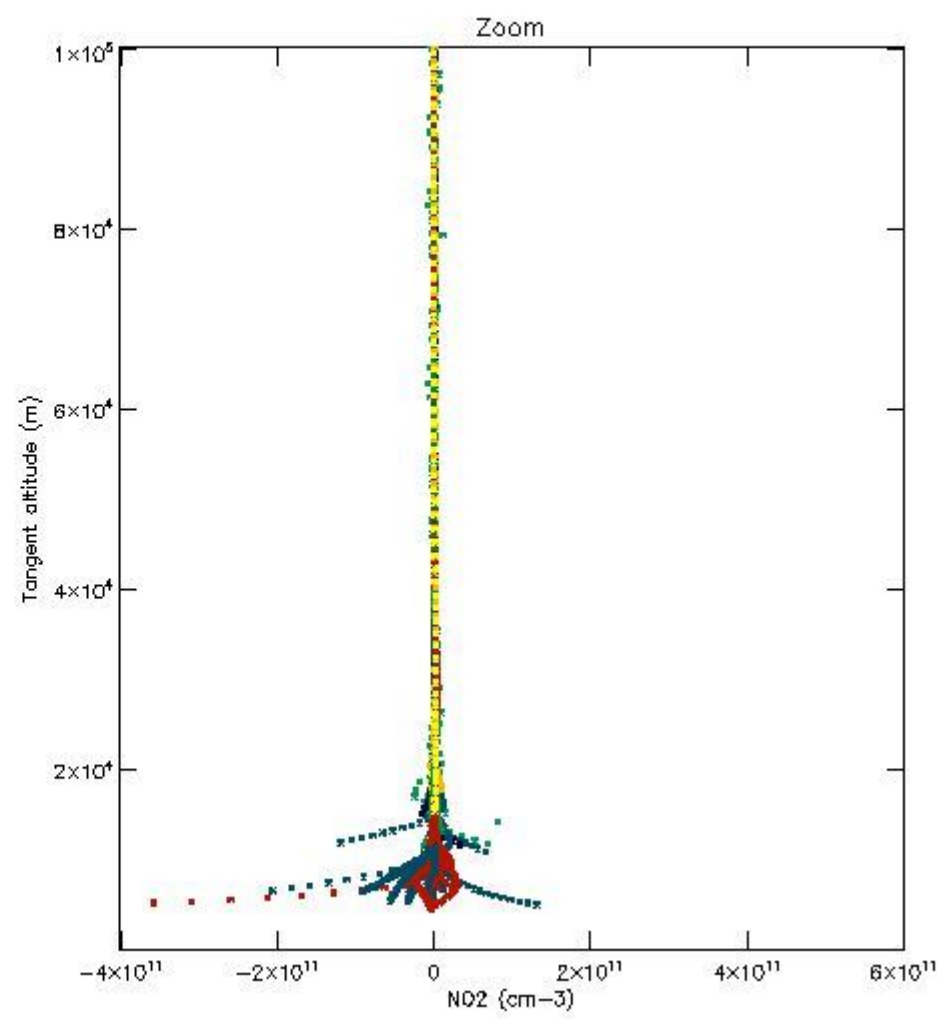
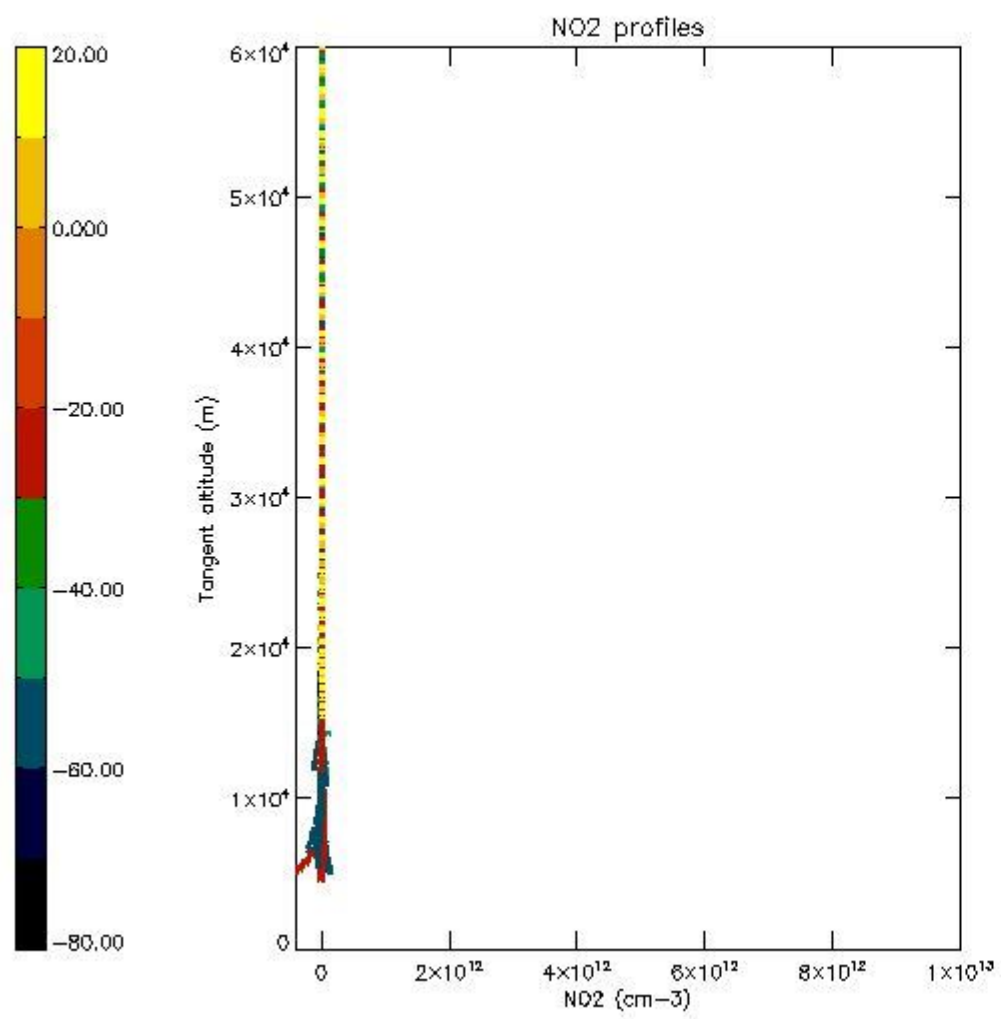
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



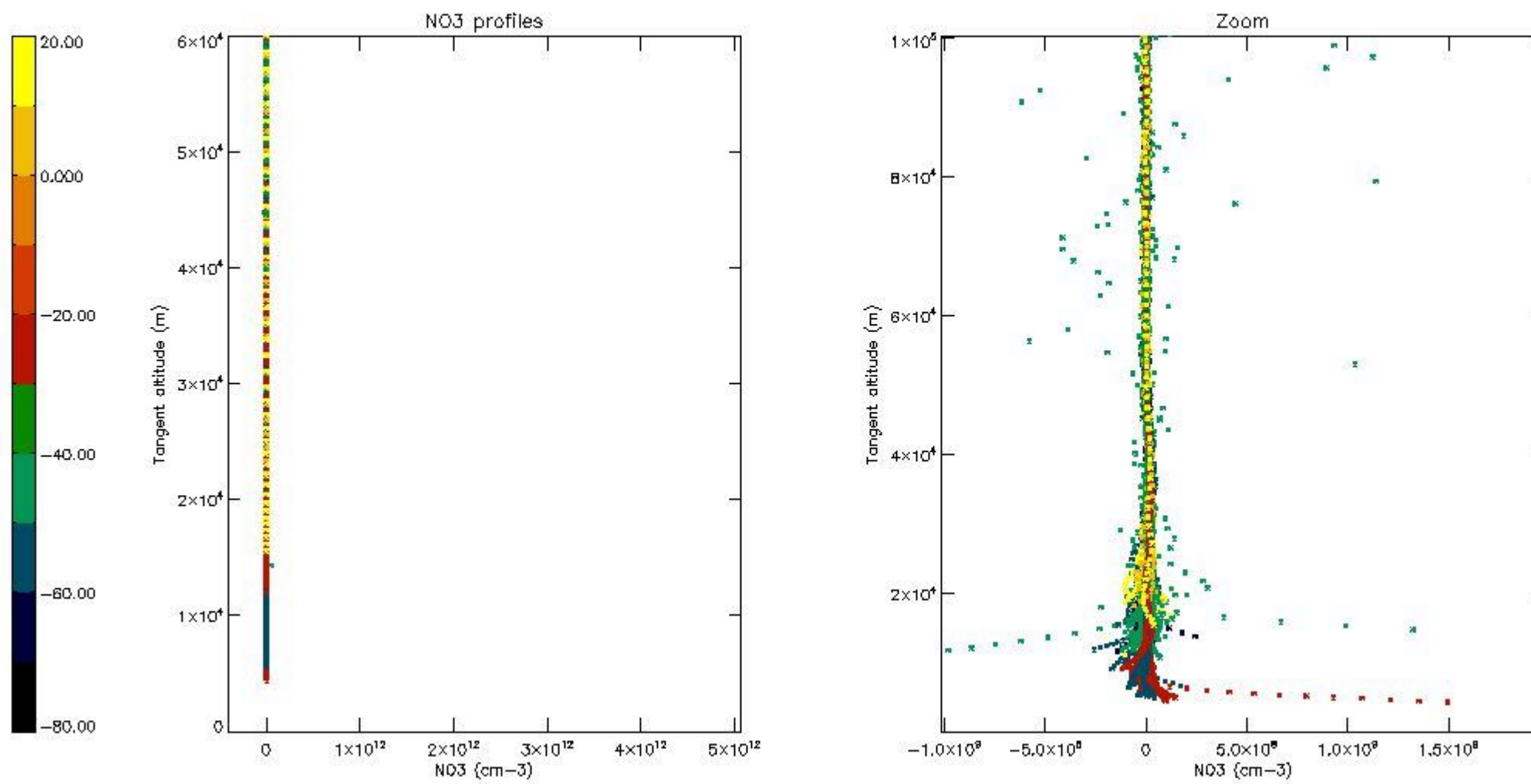
5.6 Plot NO2 profiles for all STD (dark without errors)

The colorbar represents the latitude.



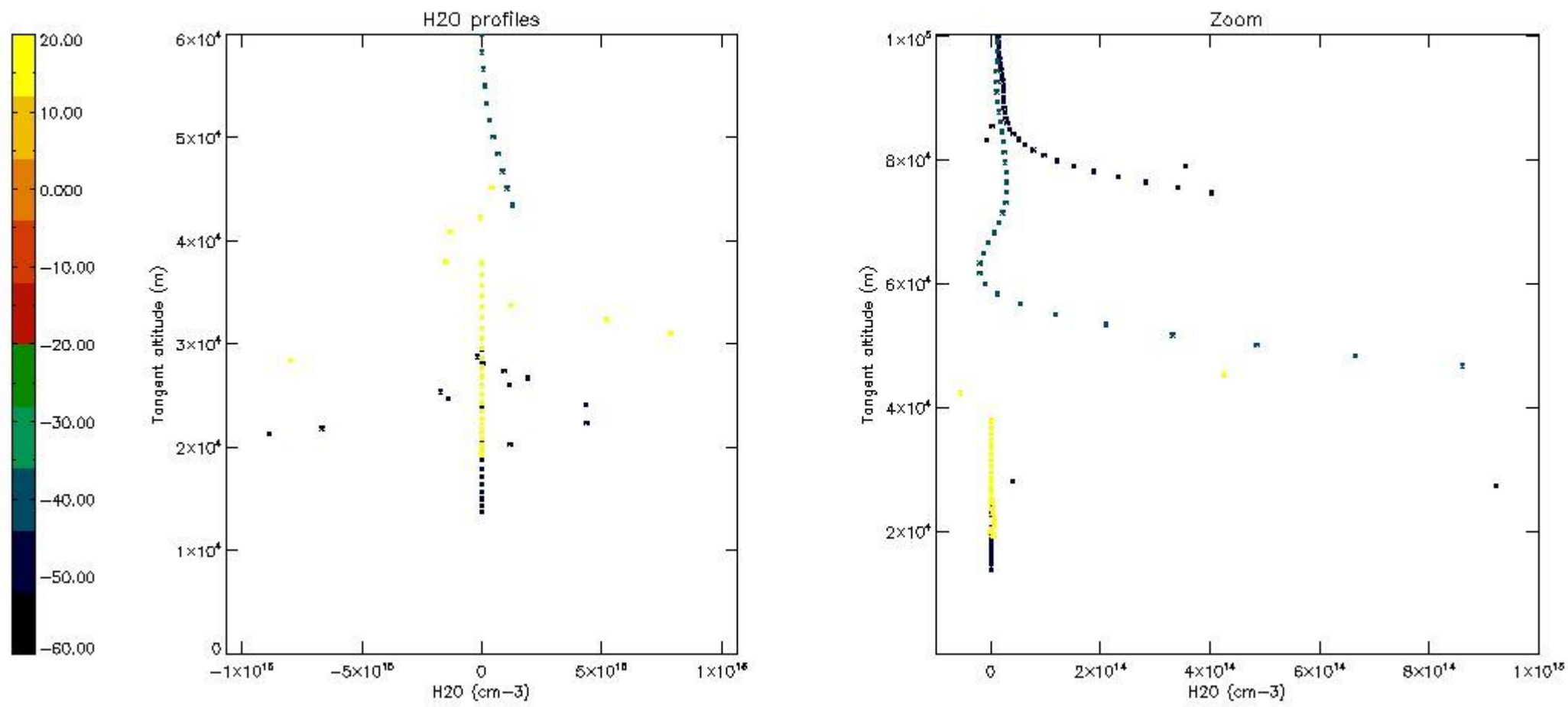
5.7 Plot NO3 profiles for all STD (dark without errors)

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	02-SEP-2002 00:01:46
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-SEP-2002 00:01:46
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-SEP-2002 00:01:46

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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.

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2. Summary of processed GOM_NL__2P products.

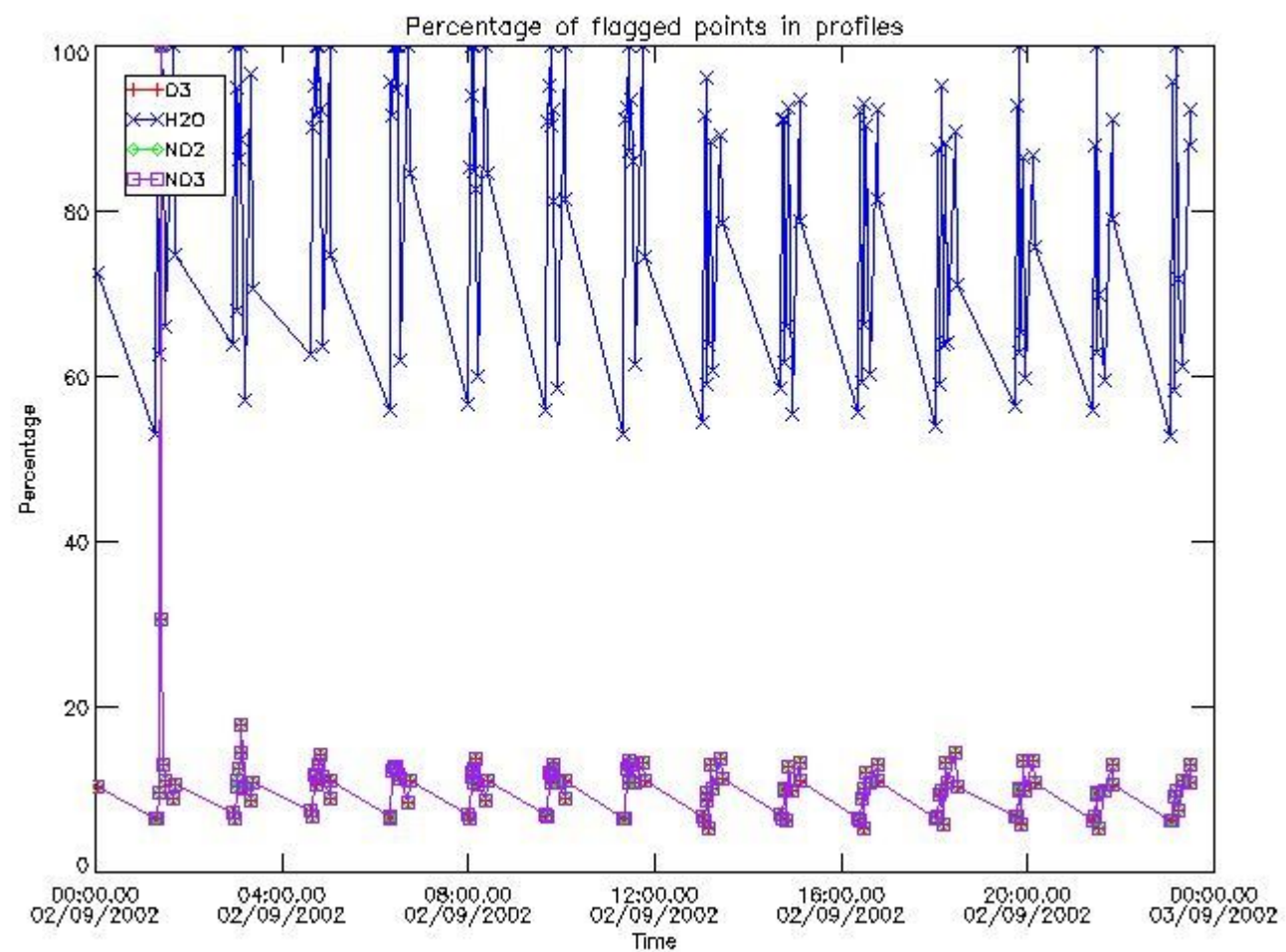
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20020902_000146_000000502009_00088_02647_2626.N1	02-SEP-2002 00:01:46	Dark	49.500	9	Alp Eri	0.45300	24000.	99	2647	No
2	GOM_NL__2PRFIN20020902_000603_000000462009_00088_02647_2627.N1	02-SEP-2002 00:06:03	Straylight	45.500	148	Alp Tuc	2.8780	4100.0	91	2647	No
3	GOM_NL__2PRFIN20020902_000742_000000542009_00088_02647_2628.N1	02-SEP-2002 00:07:42	Straylight	53.500	84	Alp Phe	2.3970	4500.0	107	2647	No
4	GOM_NL__2PRFIN20020902_000943_000000412009_00088_02647_2629.N1	02-SEP-2002 00:09:43	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	2647	No
5	GOM_NL__2PRFIN20020902_001348_000000502009_00088_02647_2630.N1	02-SEP-2002 00:13:48	Straylight	49.500	18	24Alp PsA	1.1660	9700.0	99	2647	No
6	GOM_NL__2PRFIN20020902_001836_000000522009_00088_02647_2631.N1	02-SEP-2002 00:18:36	Bright	51.500	142	49Del Cap	2.8500	8900.0	103	2647	No
7	GOM_NL__2PRFIN20020902_002144_000000402009_00088_02647_2632.N1	02-SEP-2002 00:21:44	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	2647	No
8	GOM_NL__2PRFIN20020902_002309_000000432009_00088_02647_2633.N1	02-SEP-2002 00:23:09	Bright	42.500	162	34Alp Aqr	2.9440	5350.0	85	2647	No
9	GOM_NL__2PRFIN20020902_002609_000000422009_00088_02647_2634.N1	02-SEP-2002 00:26:09	Bright	41.500	61	8Eps Peg	2.1000	3900.0	83	2647	No
10	GOM_NL__2PRFIN20020902_002859_000000502009_00088_02647_2635.N1	02-SEP-2002 00:28:59	Bright	49.500	90	54Alp Peg	2.4870	11000.	99	2647	No
11	GOM_NL__2PRFIN20020902_003245_000000742009_00088_02647_2636.N1	02-SEP-2002 00:32:45	Bright	73.500	140	88Gam Peg	2.8340	26000.	147	2647	No
12	GOM_NL__2PRFIN20020902_003614_000000382009_00088_02647_2637.N1	02-SEP-2002 00:36:14	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	2647	No
13	GOM_NL__2PRFIN20020902_004108_000000402009_00088_02647_2638.N1	02-SEP-2002 00:41:08	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	2647	No
14	GOM_NL__2PRFIN20020902_004350_000000442009_00088_02647_2639.N1	02-SEP-2002 00:43:50	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	2647	No
15	GOM_NL__2PRFIN20020902_004559_000000472009_00088_02647_2640.N1	02-SEP-2002 00:45:59	Bright	46.500	76	27Gam Cas	2.3000	30000.	93	2647	No
16	GOM_NL__2PRFIN20020902_004849_000000382009_00088_02647_2641.N1	02-SEP-2002 00:48:49	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	2647	No
17	GOM_NL__2PRFIN20020902_005121_000000912009_00088_02647_2642.N1	02-SEP-2002 00:51:21	Bright	91.000	73	57Gam1And	2.2600	13100.	182	2647	No
18	GOM_NL__2PRFIN20020902_005522_000000662009_00088_02647_2643.N1	02-SEP-2002 00:55:22	Bright	65.500	35	33Alp Per	1.7950	6250.0	131	2647	No
19	GOM_NL__2PRFIN20020902_005828_000001022009_00088_02647_2644.N1	02-SEP-2002 00:58:28	Bright	101.50	79	26Bet Per	2.3100	13100.	203	2647	No
20	GOM_NL__2PRFIN20020902_010148_000000842009_00088_02647_2645.N1	02-SEP-2002 01:01:48	Bright	84.000	149	45Eps Per	2.8880	30000.	168	2647	No
21	GOM_NL__2PRFIN20020902_010548_000000422009_00088_02647_2646.N1	02-SEP-2002 01:05:48	Bright	42.000	24	66Alp Gem	1.5800	10200.	84	2647	No
22	GOM_NL__2PRFIN20020902_010827_000000752009_00088_02647_2647.N1	02-SEP-2002 01:08:27	Twilight	74.500	28	12Bet Tau	1.6500	15200.	149	2647	No
23	GOM_NL__2PRFIN20020902_011132_000000512009_00088_02647_2648.N1	02-SEP-2002 01:11:32	Twilight	51.000	44	24Gam Gem	1.9280	11000.	102	2647	No
24	GOM_NL__2PRFIN20020902_011331_000000532009_00088_02647_2649.N1	02-SEP-2002 01:13:31	Twilight	52.500	8	10Alp CMi	0.40000	6500.0	105	2647	No
25	GOM_NL__2PRFIN20020902_011613_000000782009_00088_02647_2650.N1	02-SEP-2002 01:16:13	Dark	78.000	14	58Alp Ori	0.87000	3000.0	156	2647	No
26	GOM_NL__2PRFIN20020902_011835_000000792009_00088_02647_2651.N1	02-SEP-2002 01:18:35	Dark	78.500	27	24Gam Ori	1.6360	26000.	157	2647	No
27	GOM_NL__2PRFIN20020902_012116_000000582009_00088_02647_2652.N1	02-SEP-2002 01:21:16	Dark	58.000	1	9Alp CMa	-1.4400	11000.	116	2647	No
28	GOM_NL__2PRFIN20020902_012401_000000462009_00088_02647_2653.N1	02-SEP-2002 01:24:01	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	2647	No
29	GOM_NL__2PRFIN20020902_012529_000000422009_00088_02647_2654.N1	02-SEP-2002 01:25:29	Dark	41.500	70	Zet Pup	2.2460	39000.	83	2647	No
30	GOM_NL__2PRFIN20020902_012725_000000432009_00088_02647_2655.N1	02-SEP-2002 01:27:25	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	2647	No
31	GOM_NL__2PRFIN20020902_013045_000000462009_00088_02647_2656.N1	02-SEP-2002 01:30:45	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	2647	No
32	GOM_NL__2PRFIN20020902_014032_000000582009_00089_02648_2695.N1	02-SEP-2002 01:40:32	Dark	57.500	157	The1Eri	2.9060	9300.0	115	2648	No
33	GOM_NL__2PRFIN20020902_014223_000000482009_00089_02648_2696.N1	02-SEP-2002 01:42:23	Dark	48.000	9	Alp Eri	0.45300	24000.	96	2648	No
34	GOM_NL__2PRFIN20020902_014639_000000432009_00089_02648_2697.N1	02-SEP-2002 01:46:39	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	2648	No
35	GOM_NL__2PRFIN20020902_014819_000000512009_00089_02648_2698.N1	02-SEP-2002 01:48:19	Straylight	50.500	84	Alp Phe	2.3970	4500.0	101	2648	No
36	GOM_NL__2PRFIN20020902_015019_000000432009_00089_02648_2699.N1	02-SEP-2002 01:50:19	Straylight	42.500	31	Alp Gru	1.7340	15200.	85	2648	No
37	GOM_NL__2PRFIN20020902_015424_000000482009_00089_02648_2700.N1	02-SEP-2002 01:54:24	Straylight	47.500	18	24Alp PsA	1.1660	9700.0	95	2648	No
38	GOM_NL__2PRFIN20020902_015912_000000422009_00089_02648_2701.N1	02-SEP-2002 01:59:12	Bright	41.500	142	49Del Cap	2.8500	8900.0	83	2648	No
39	GOM_NL__2PRFIN20020902_020220_000000402009_00089_02648_2702.N1	02-SEP-2002 02:02:20	Bright	40.000	154	22Bet Aqr	2.8990	5700.0	80	2648	No
40	GOM_NL__2PRFIN20020902_020346_000000422009_00089_02648_2703.N1	02-SEP-2002 02:03:46	Bright	42.000	162	34Alp Aqr	2.9440	5350.0	84	2648	No
41	GOM_NL__2PRFIN20020902_020645_000000412009_00089_02648_2704.N1	02-SEP-2002 02:06:45	Bright	40.500	61	8Eps Peg	2.1000	3900.0	81	2648	No
42	GOM_NL__2PRFIN20020902_020935_000000502009_00089_02648_2705.N1	02-SEP-2002 02:09:35	Bright	50.000	90	54Alp Peg	2.4870	11000.	100	2648	No

456	GOM_NL__2PRFIN20020902_234214_000000492009_00102_02661_2724.N1	02-SEP-2002 23:42:14	Straylight	48.500	18	24Alp PsA	1.1660	9700.0	97	2661	No
457	GOM_NL__2PRFIN20020902_234701_000000412009_00102_02661_2725.N1	02-SEP-2002 23:47:01	Bright	41.000	142	49Del Cap	2.8500	8900.0	82	2661	No
458	GOM_NL__2PRFIN20020902_235008_000000402009_00102_02661_2726.N1	02-SEP-2002 23:50:08	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	2661	No
459	GOM_NL__2PRFIN20020902_235133_000000412009_00102_02661_2727.N1	02-SEP-2002 23:51:33	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	2661	No
460	GOM_NL__2PRFIN20020902_235433_000000402009_00102_02661_2728.N1	02-SEP-2002 23:54:33	Bright	40.000	61	8Eps Peg	2.1000	3900.0	80	2661	No
461	GOM_NL__2PRFIN20020902_235716_000000492009_00102_02661_2729.N1	02-SEP-2002 23:57:16	Bright	48.500	90	54Alp Peg	2.4870	11000.	97	2661	No

3. Quality information per product

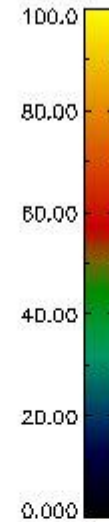
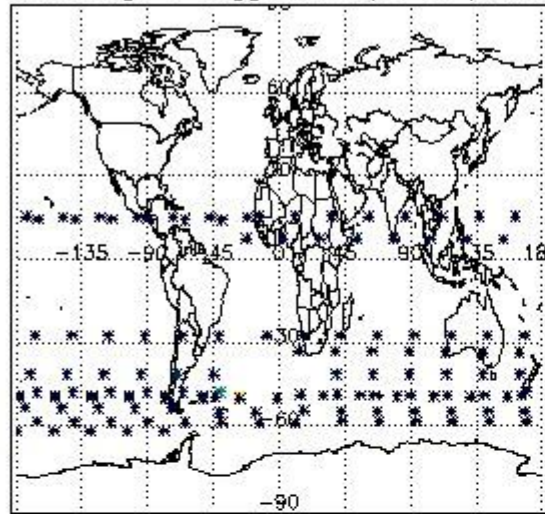
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

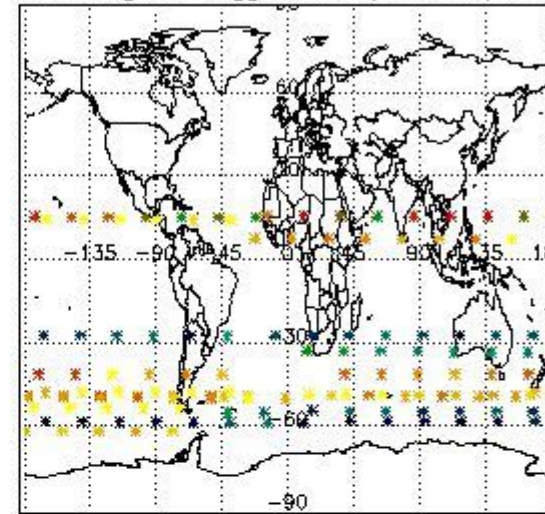


3.2 Plot quality information per product (world map)

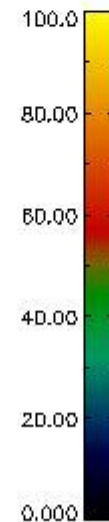
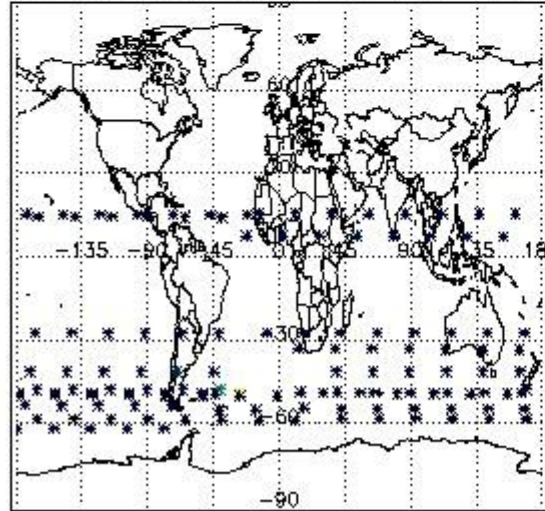
Percentage of flagged data per O3 profile



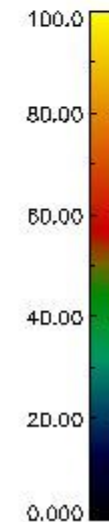
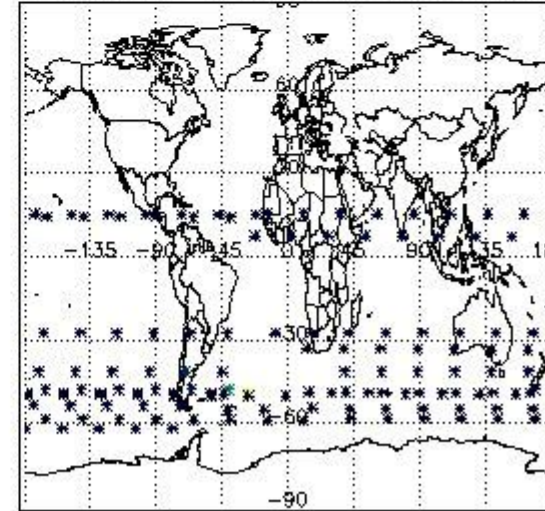
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

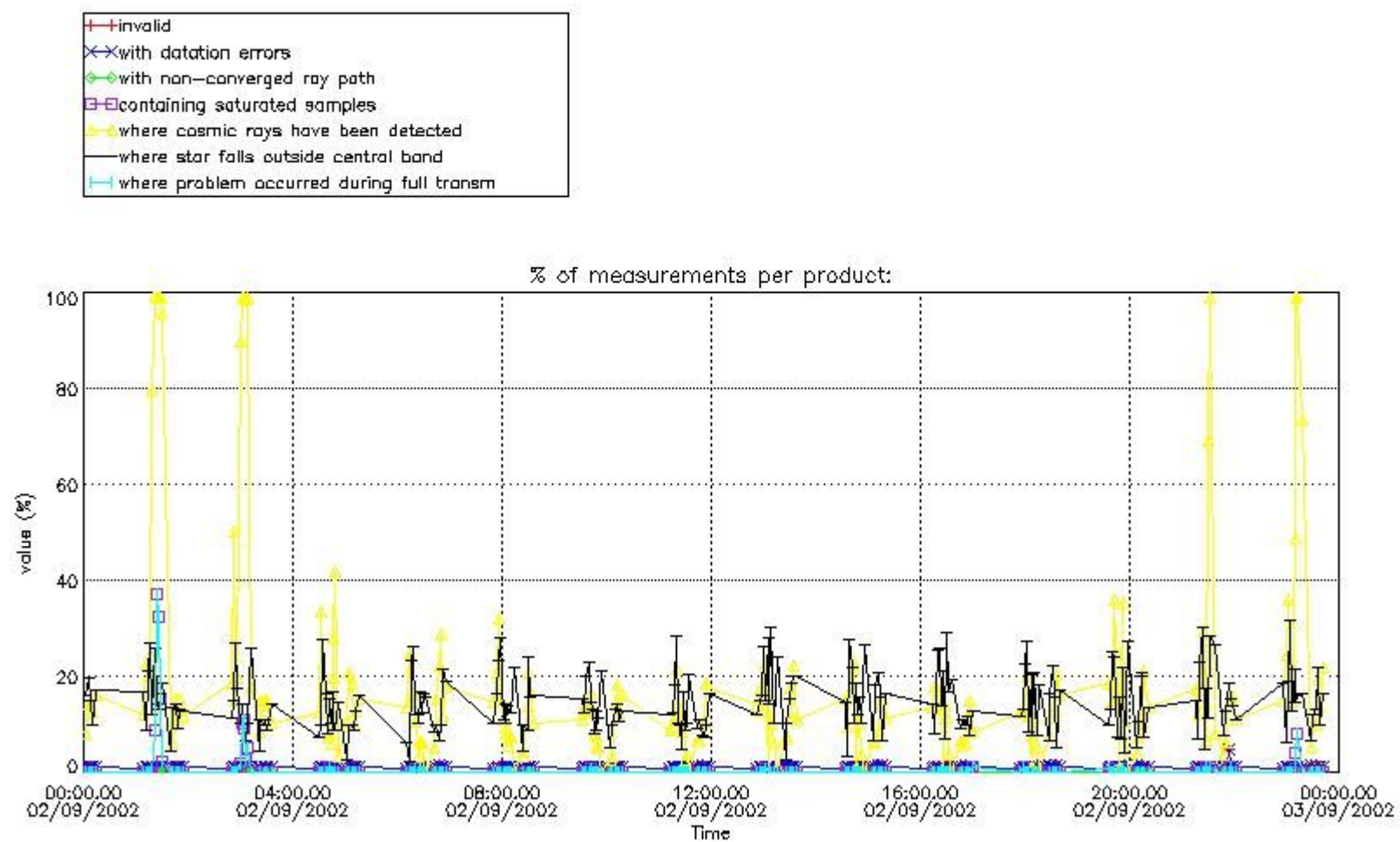


4. Level 1 quality information per product

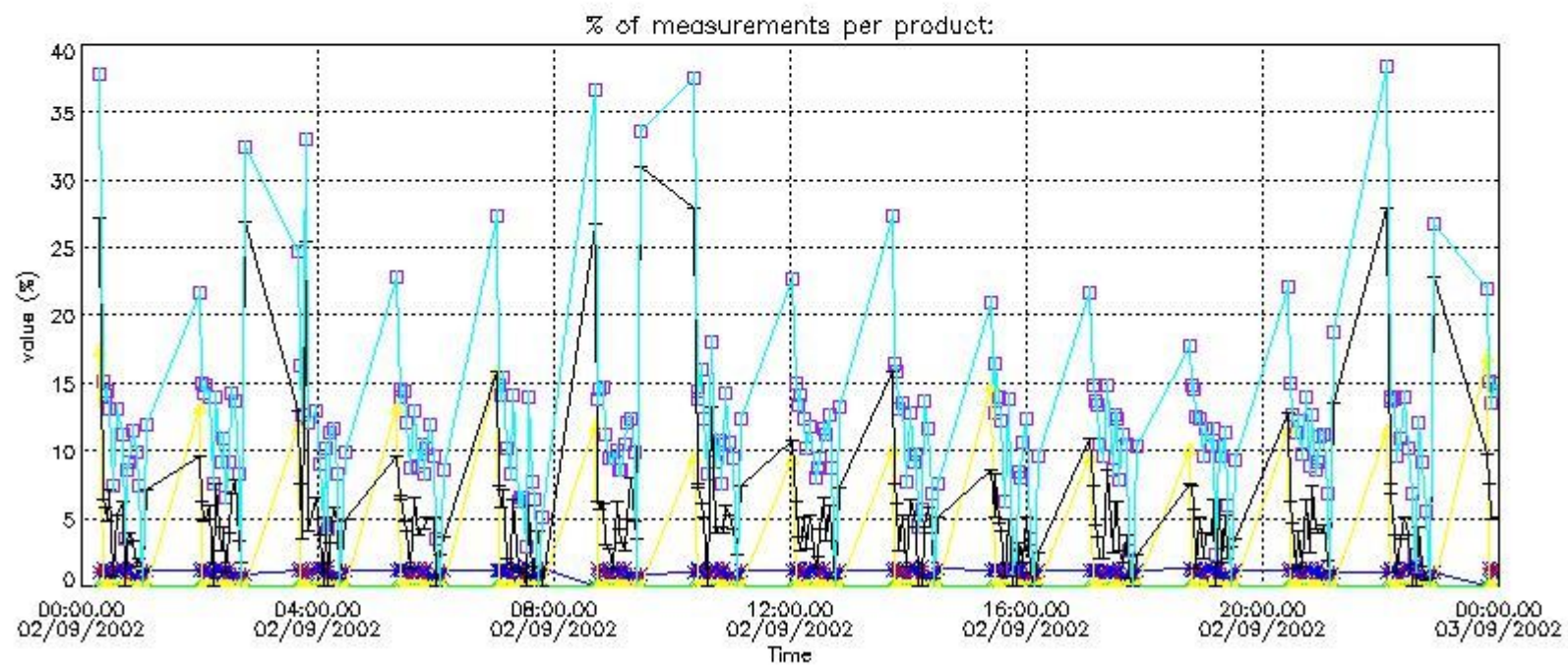
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



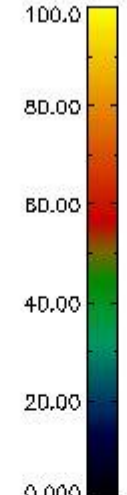
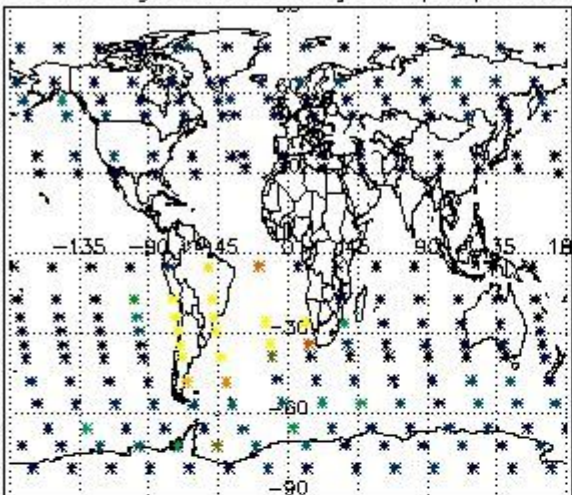
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



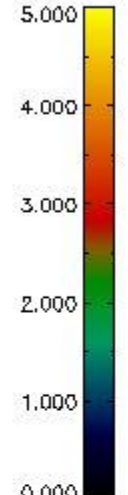
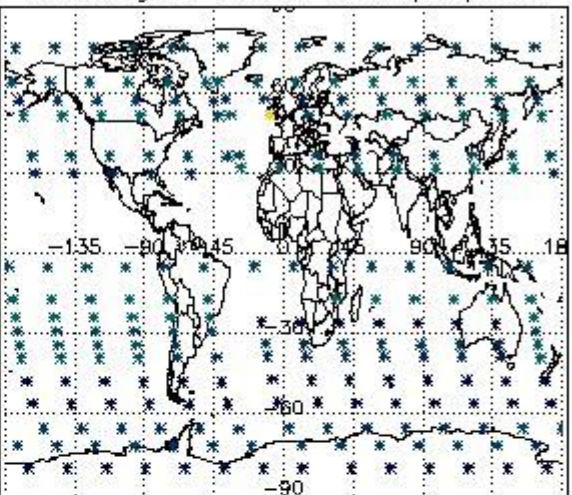
4.2 Plot quality information per product coming from level 1b processing (world map)

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

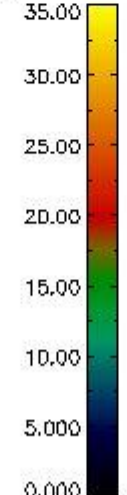
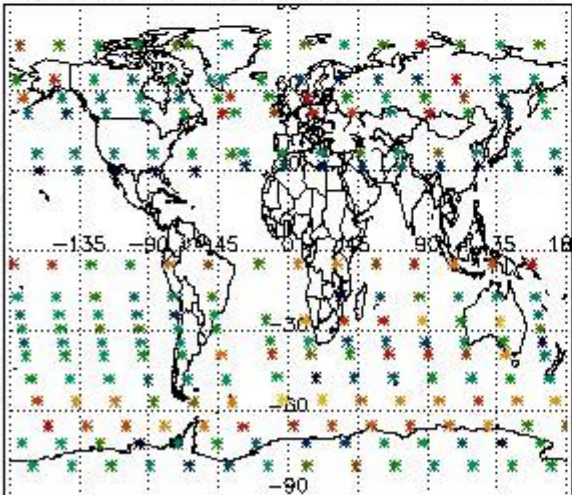
Percentage of cosmic ray hits per profile



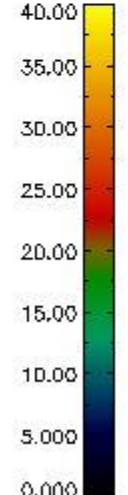
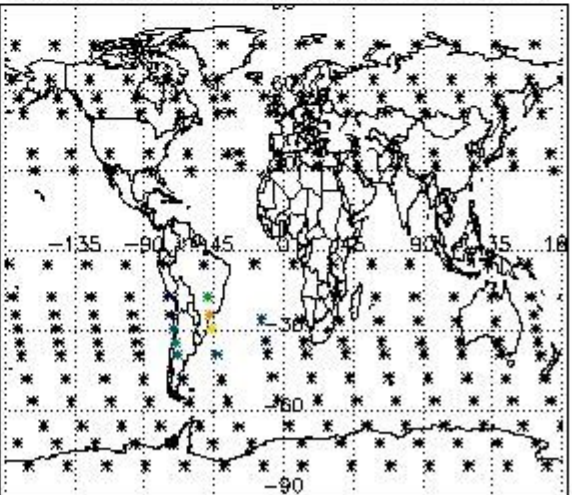
Percentage of datation errors per profile



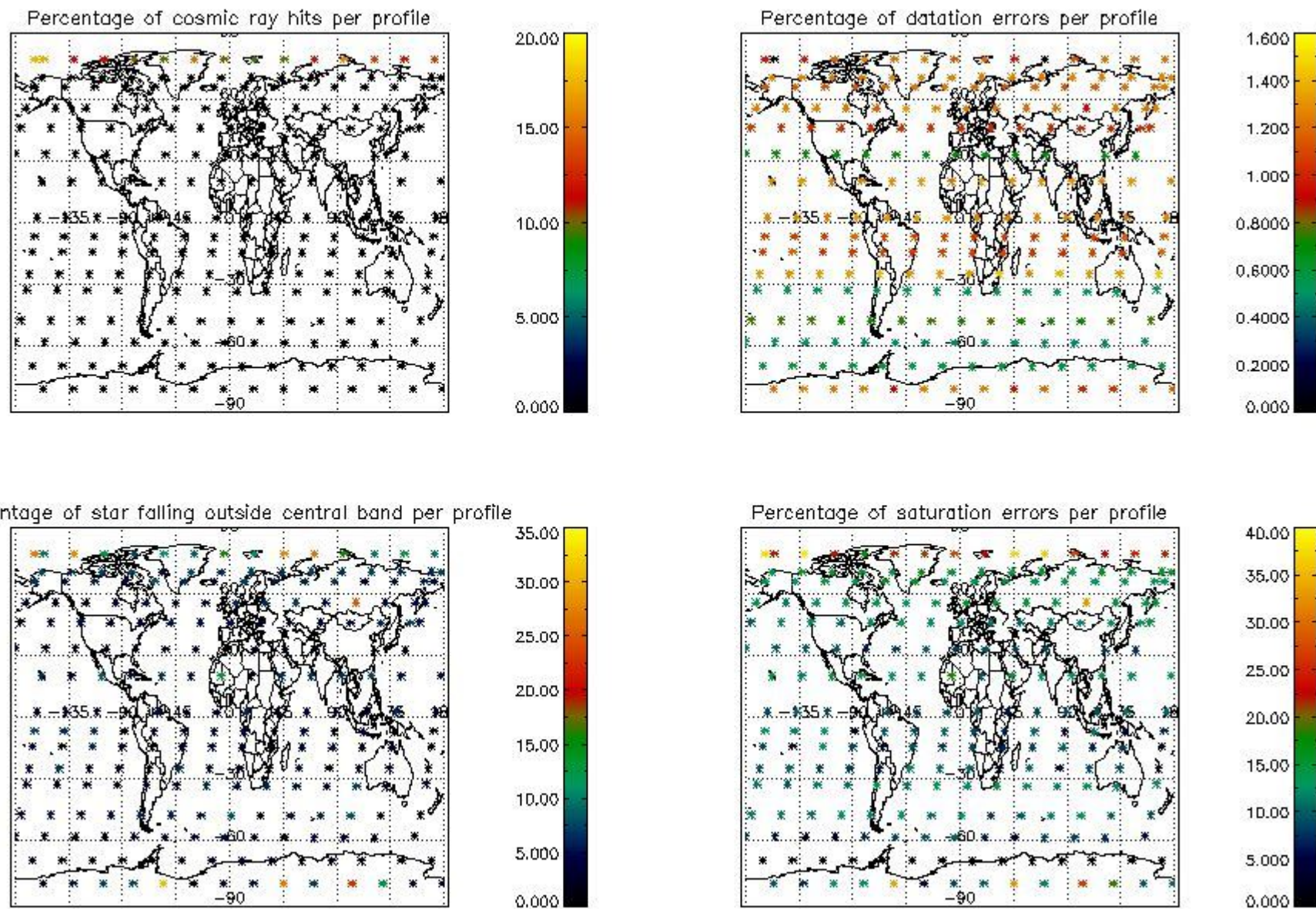
Percentage of star falling outside central band per profile



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

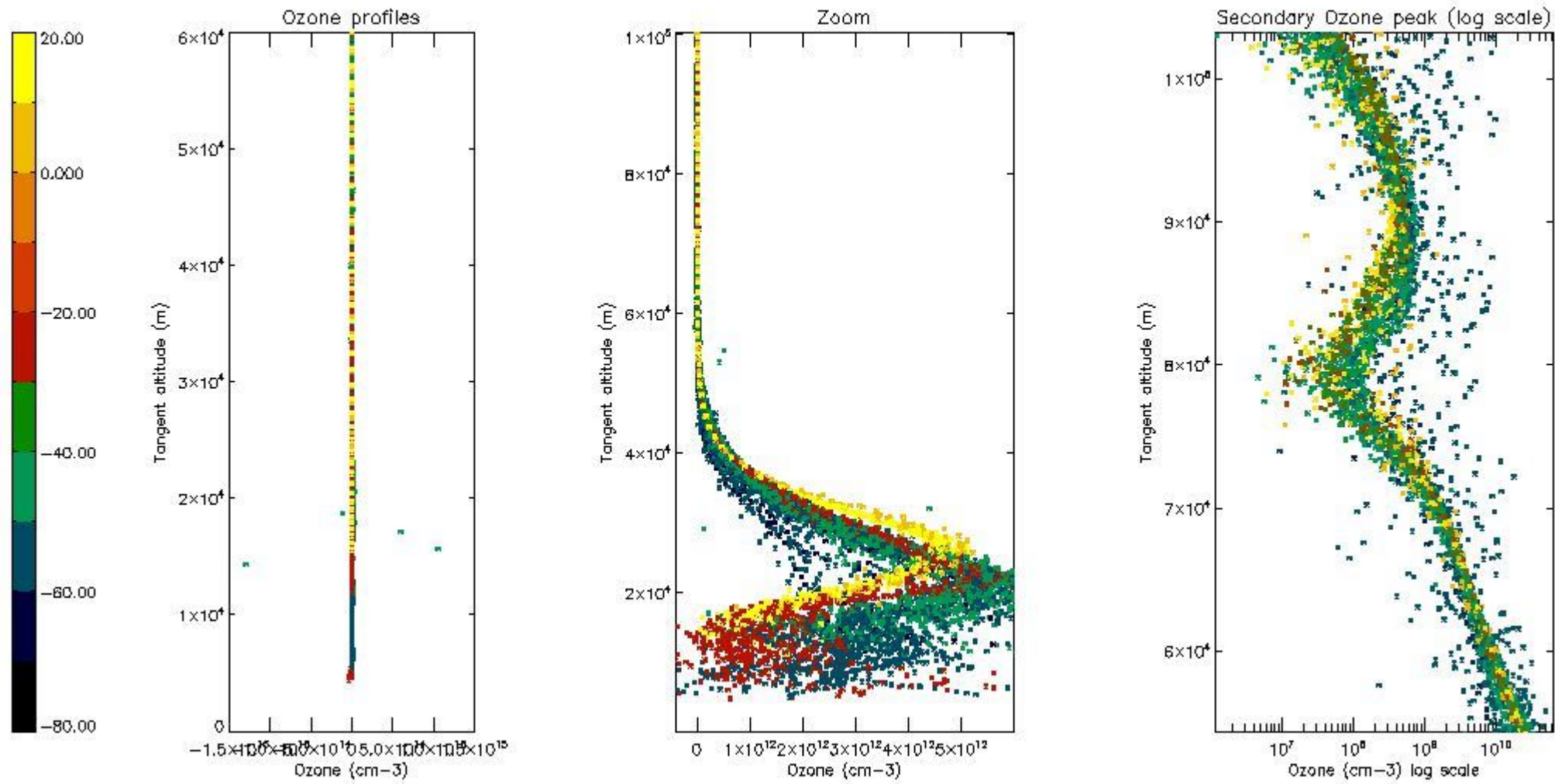
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	20

STD < 10	18
STD < 5	15

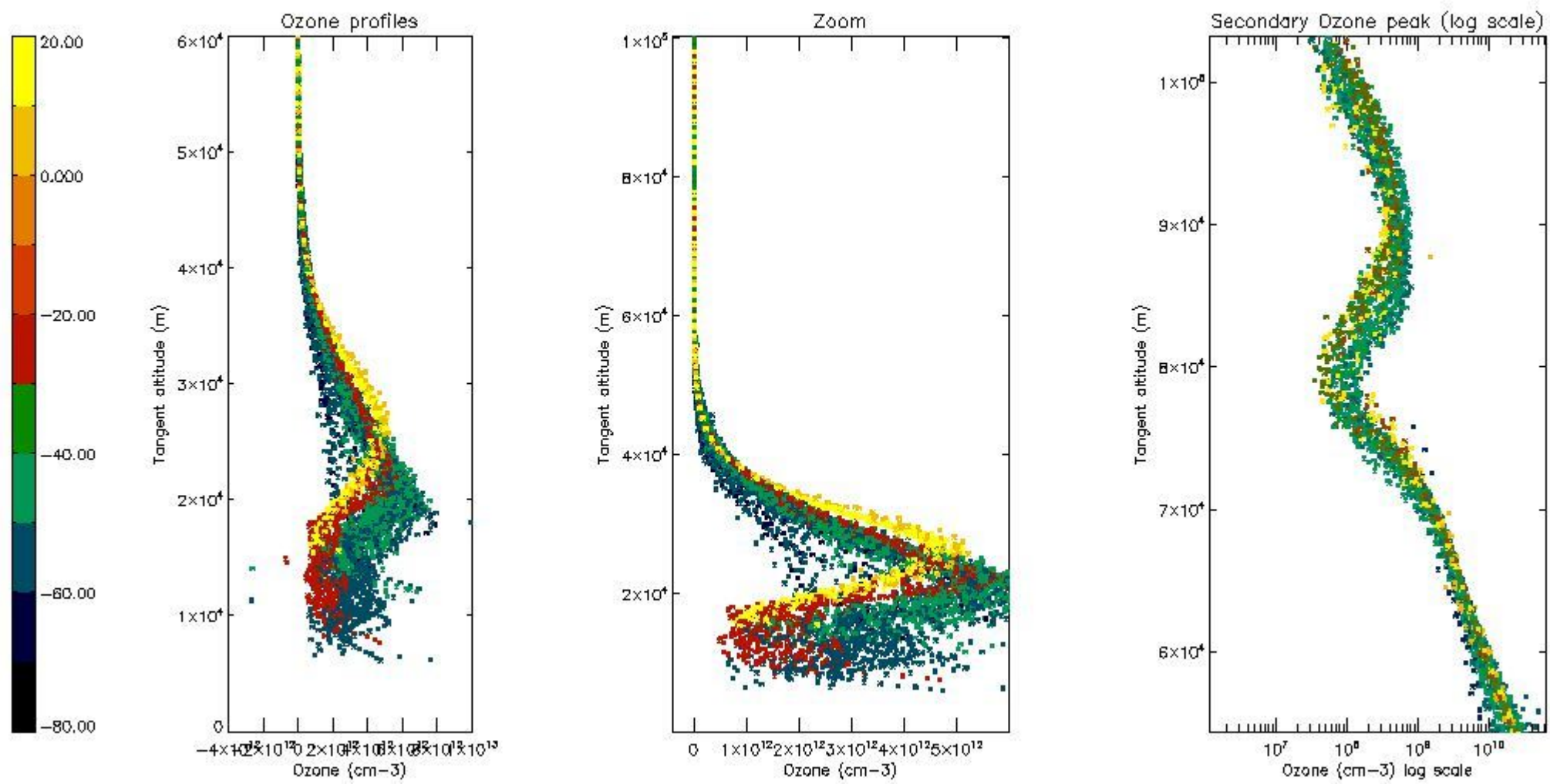
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



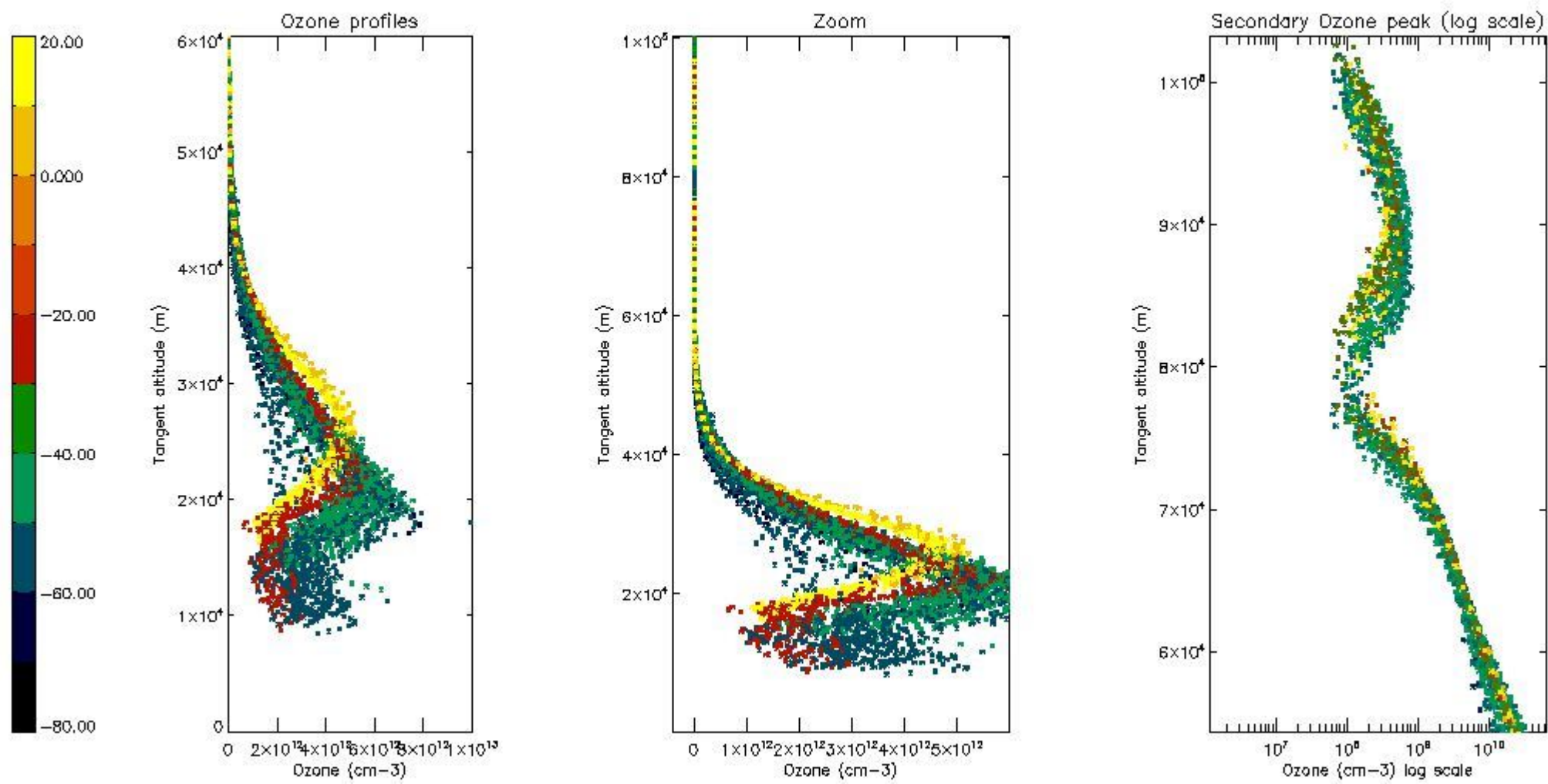
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



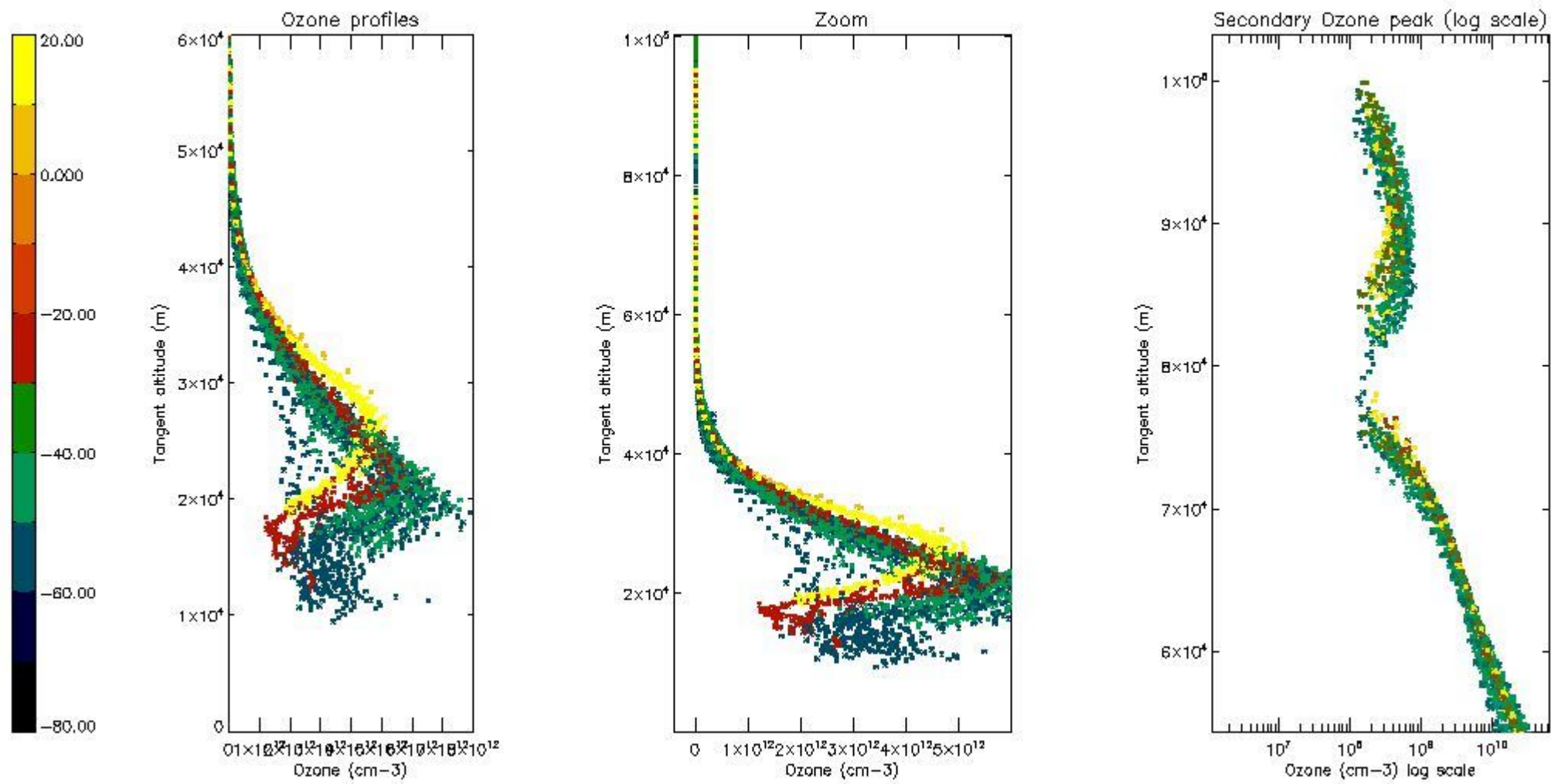
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



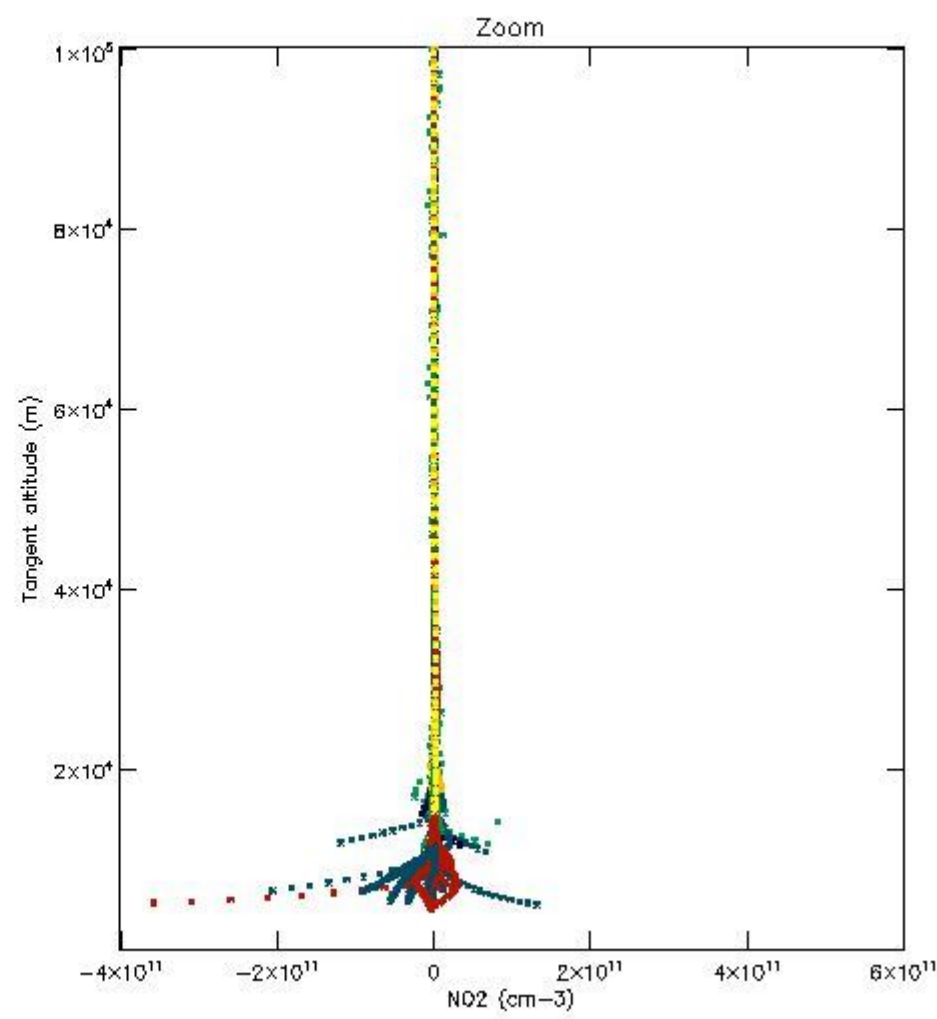
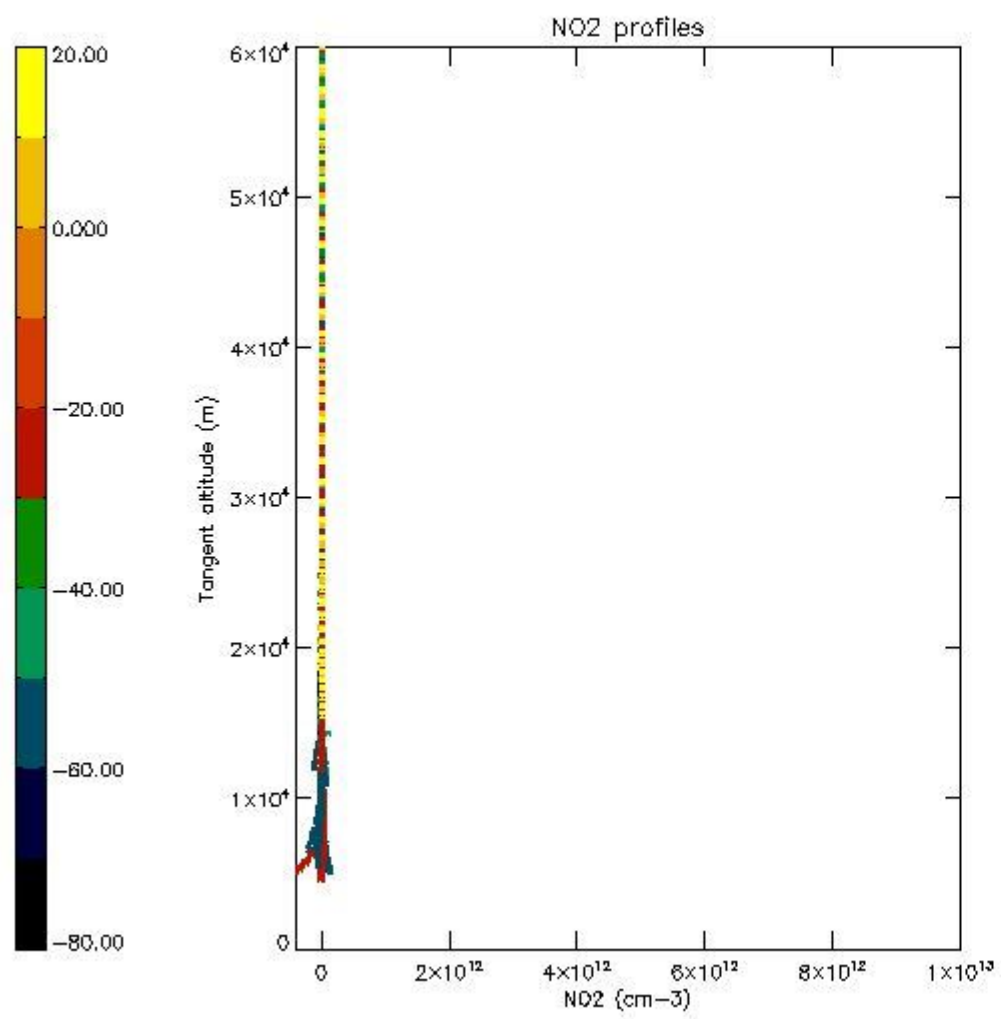
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



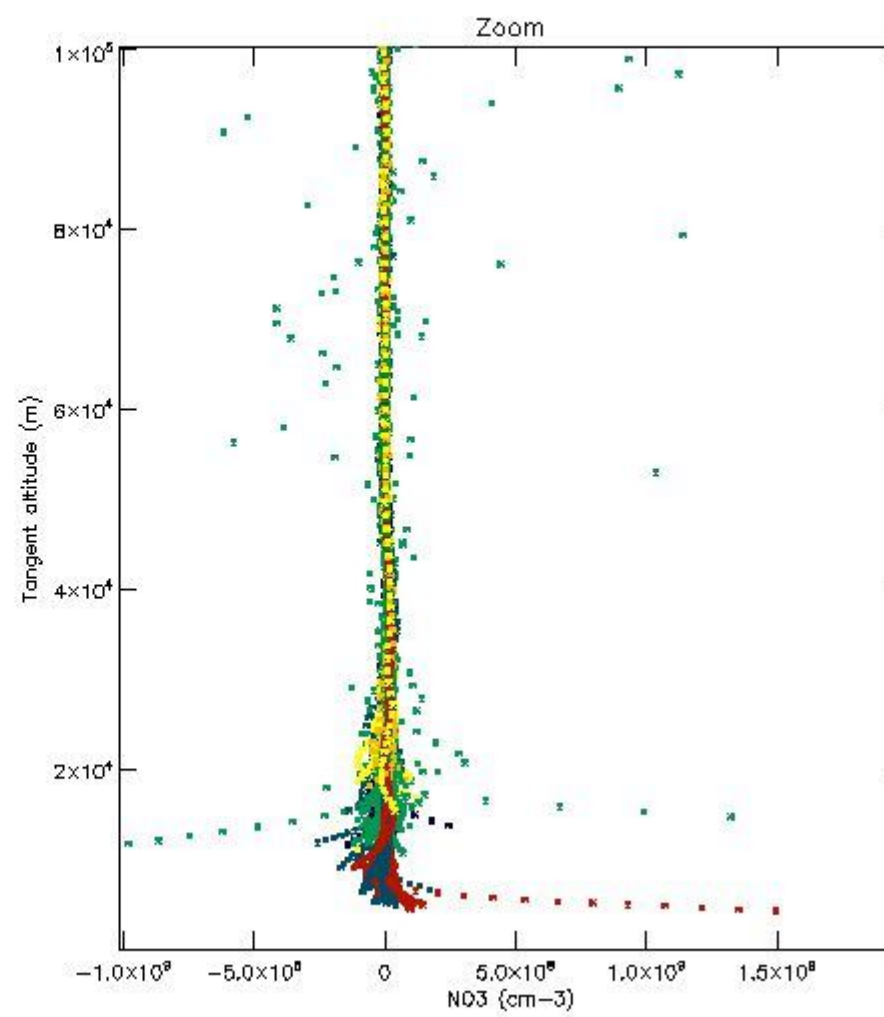
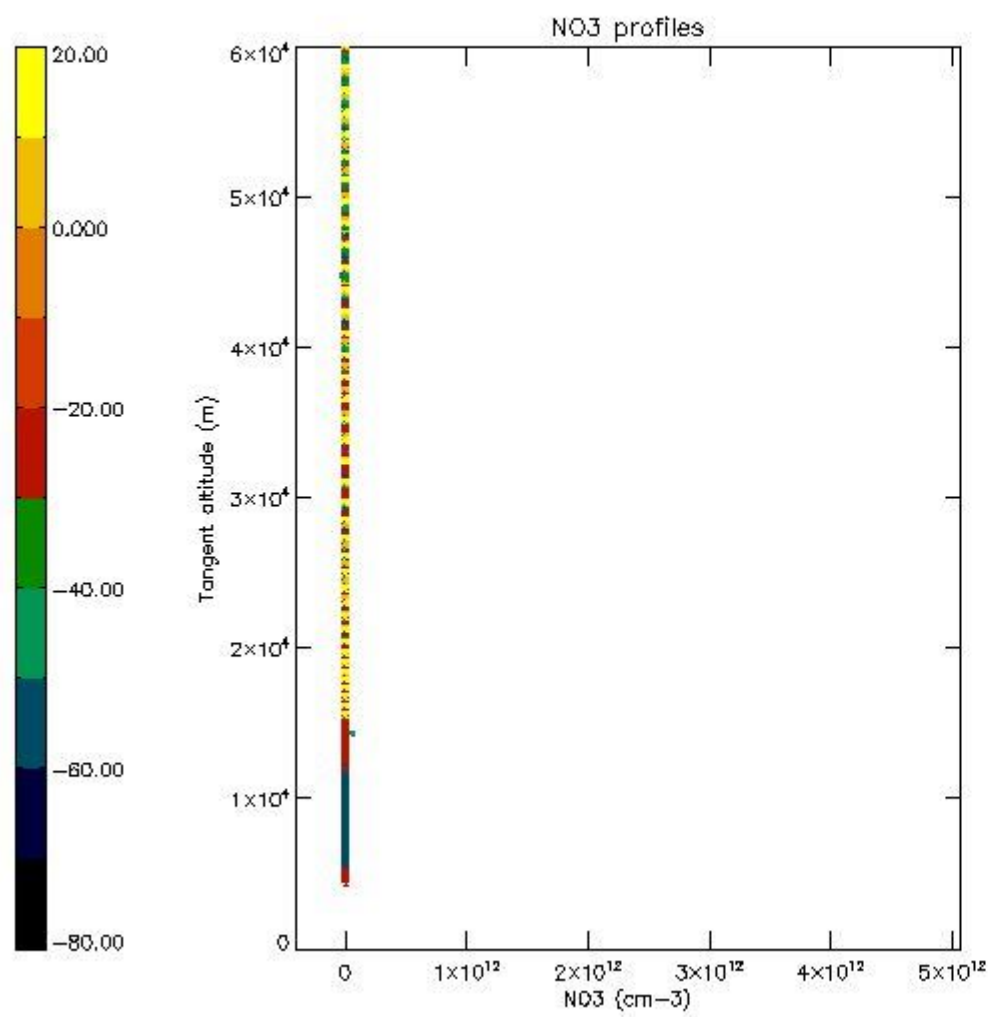
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



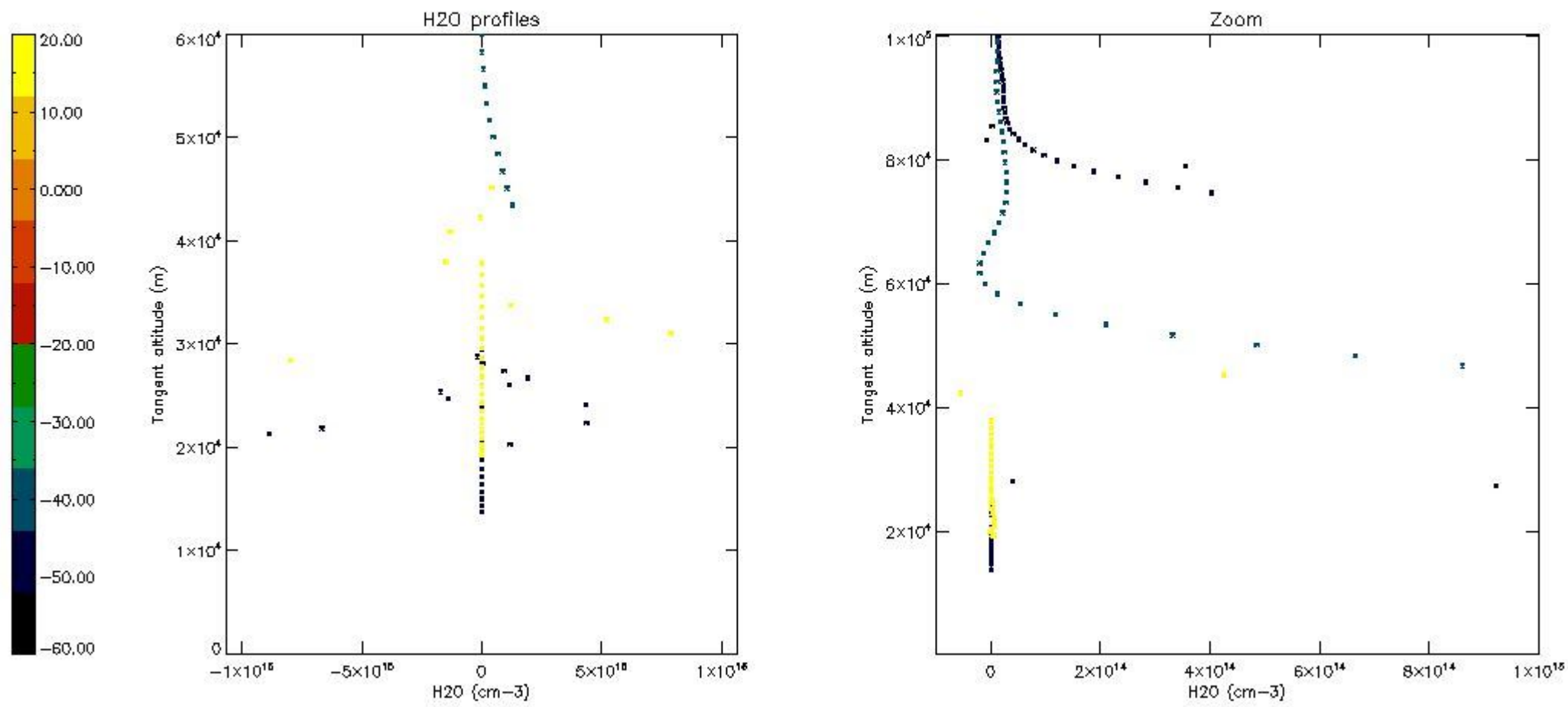
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

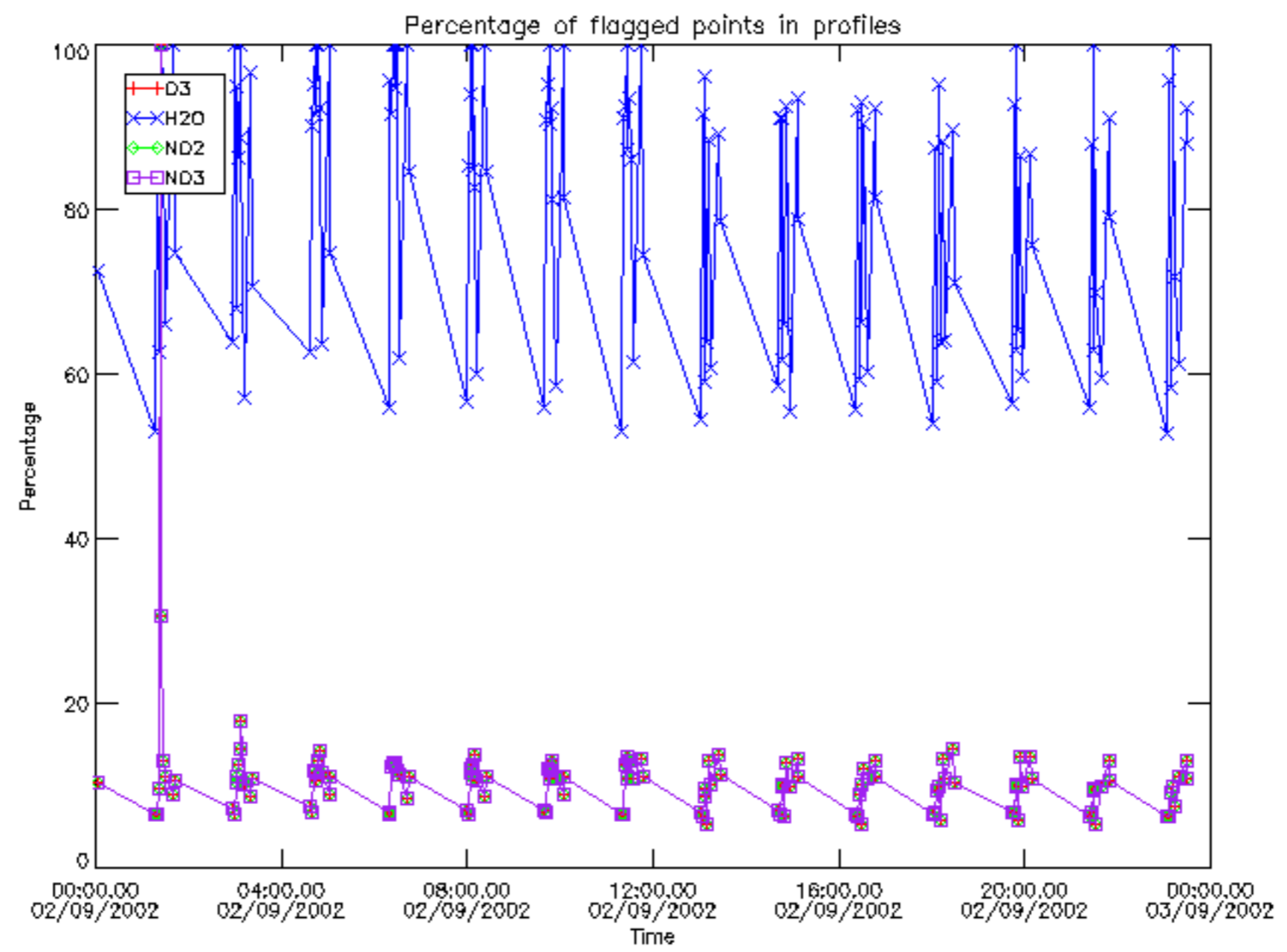
The colorbar represents the latitude.



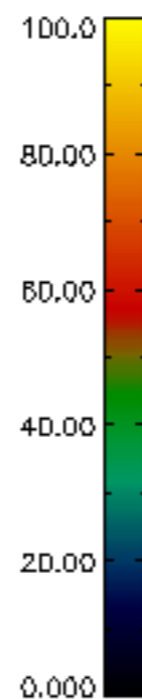
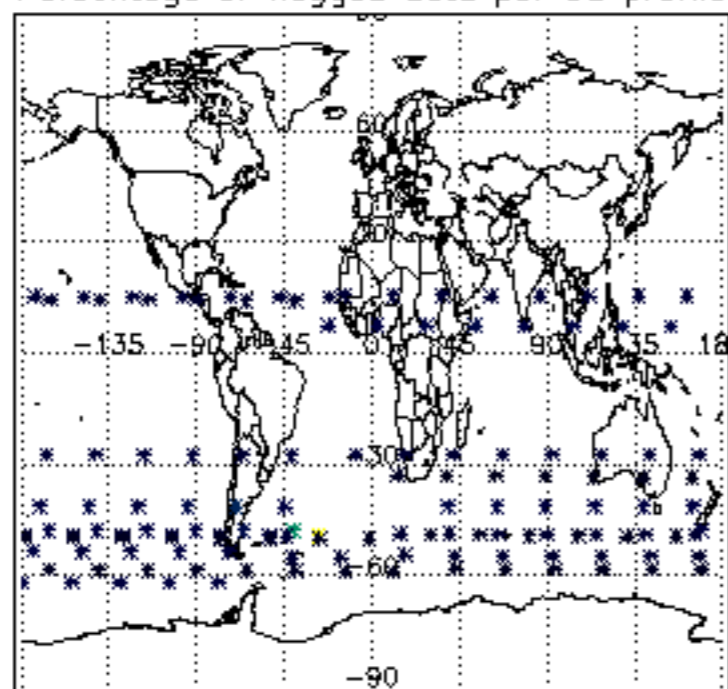
6. Auxiliary Data Files used for the production reported in section 2

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.

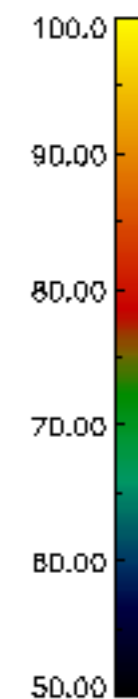
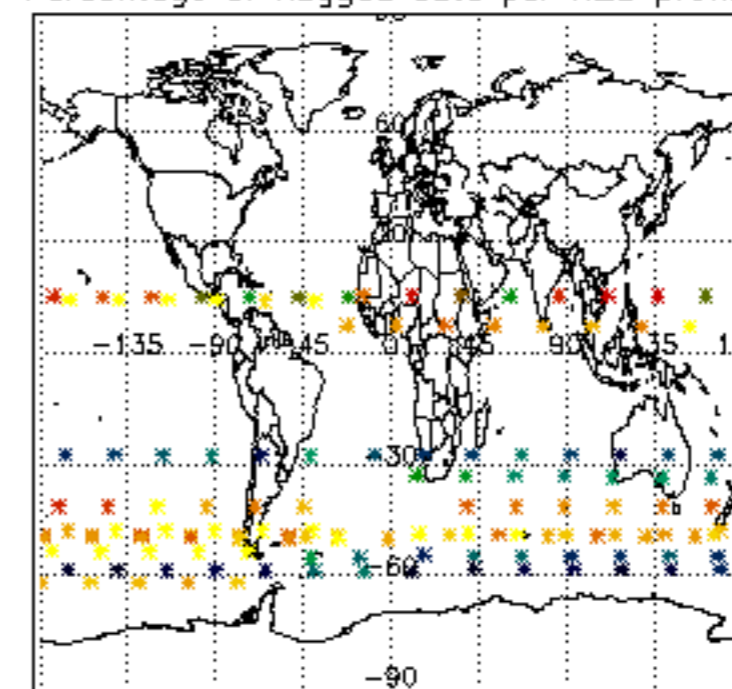
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	02-SEP-2002 00:01:46
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-SEP-2002 00:01:46
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-SEP-2002 00:01:46



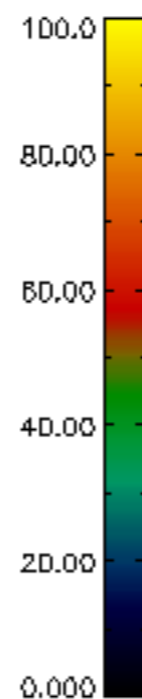
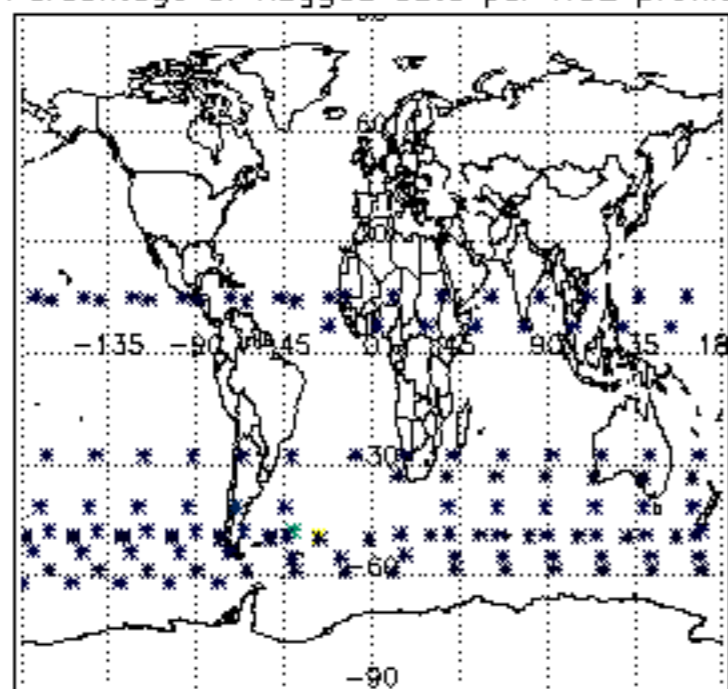
Percentage of flagged data per D3 profile



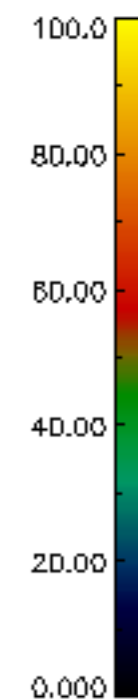
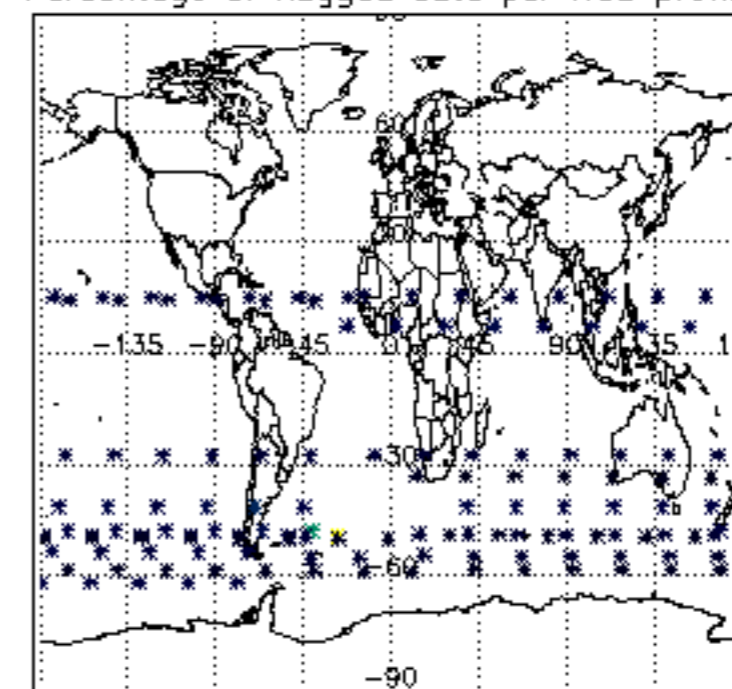
Percentage of flagged data per H2O profile

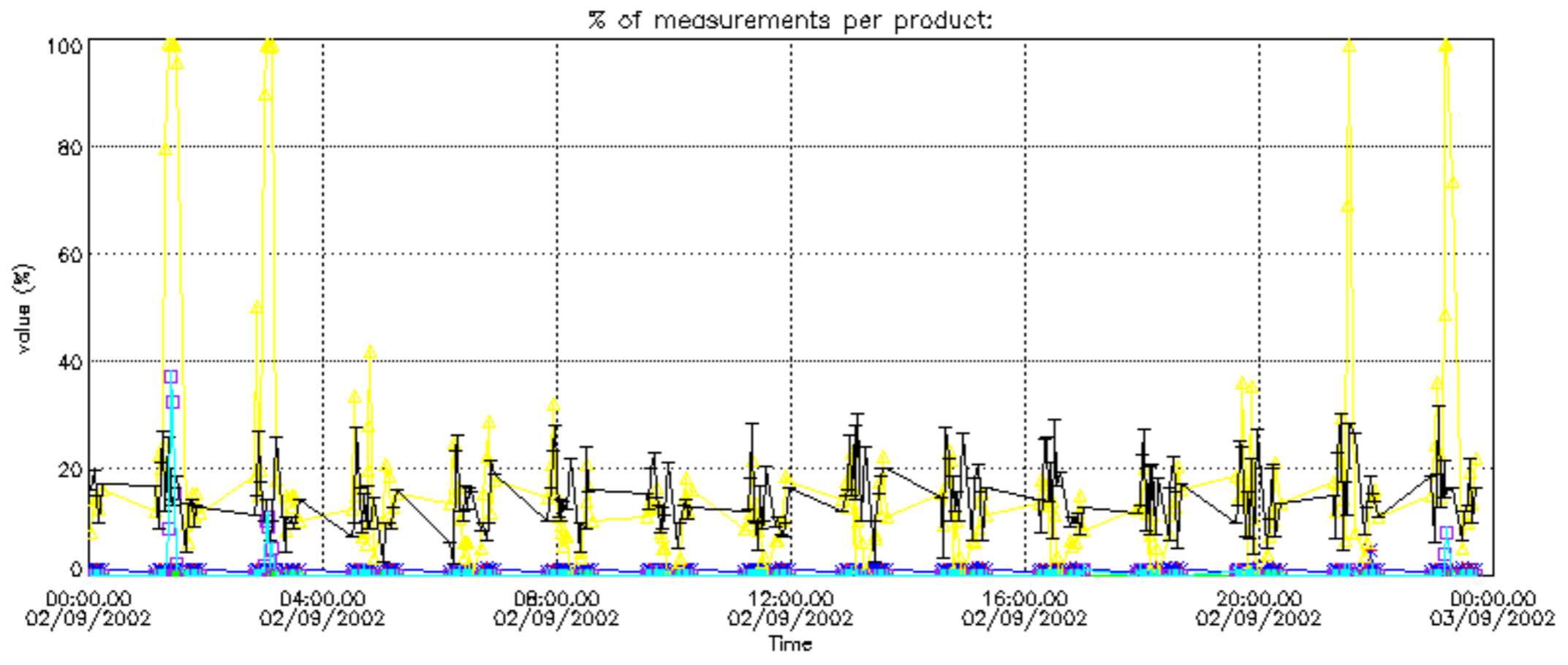


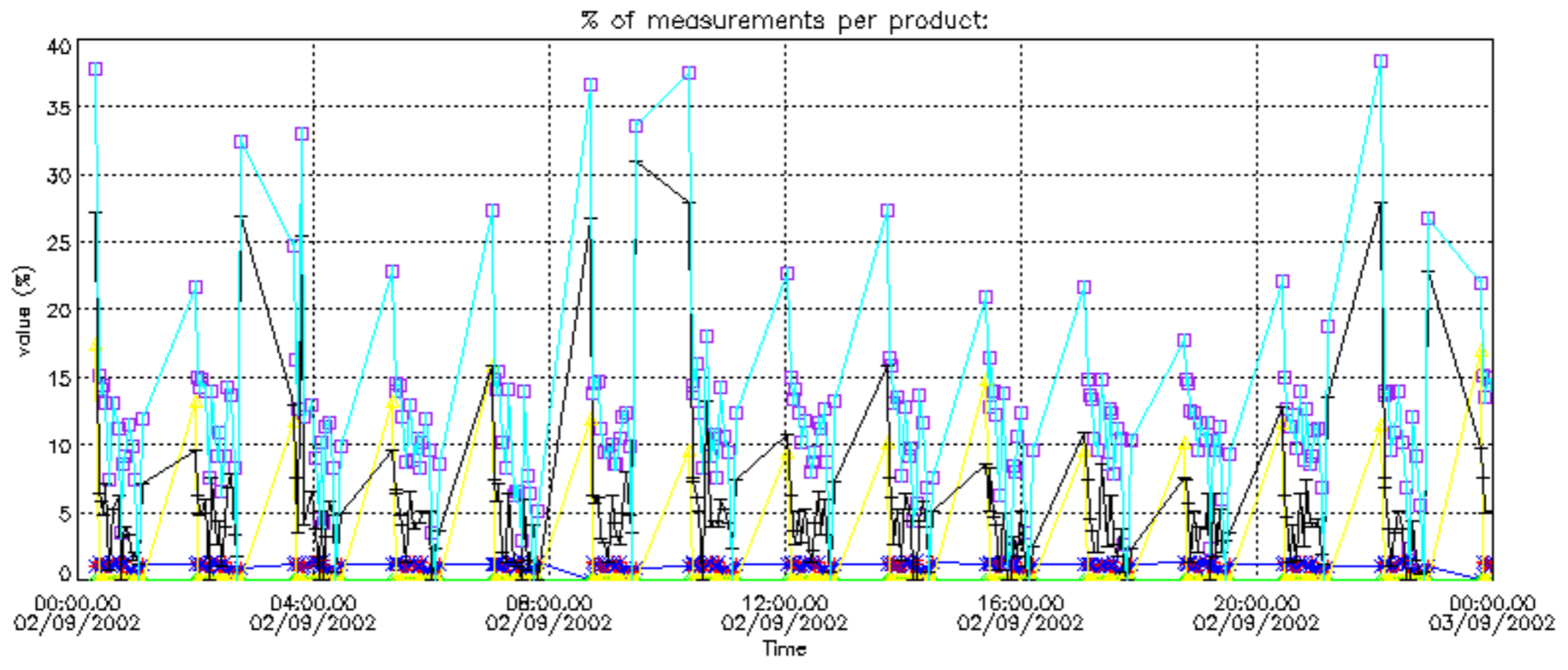
Percentage of flagged data per NO2 profile



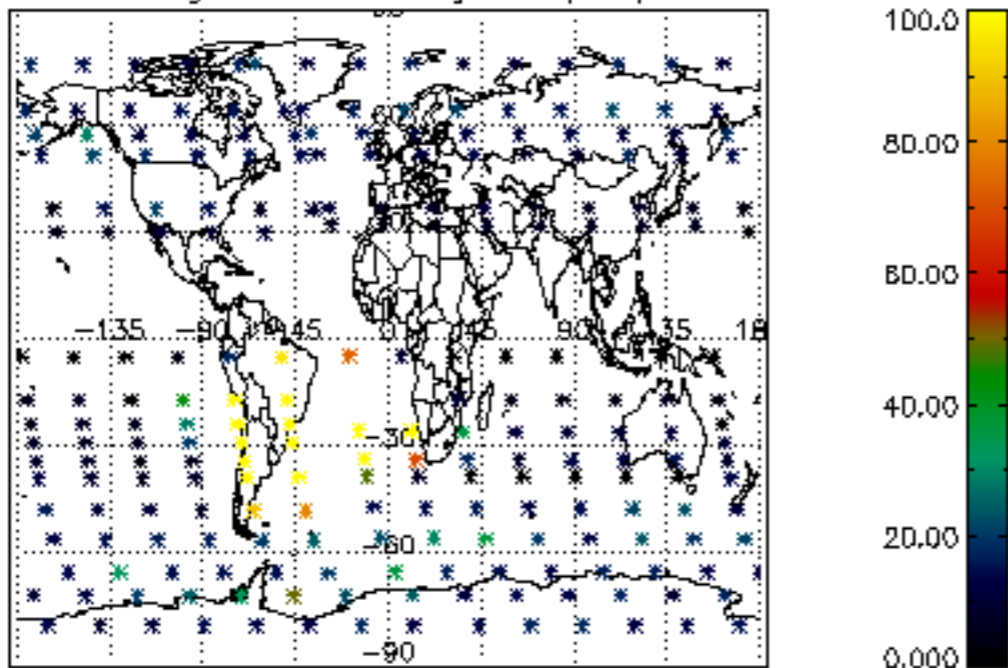
Percentage of flagged data per NO3 profile



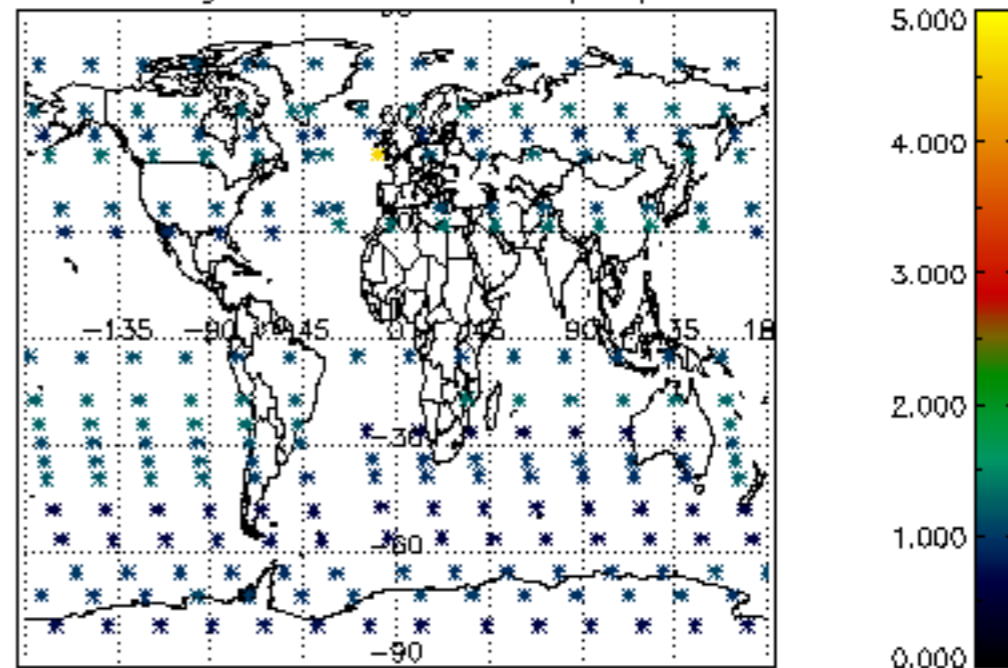




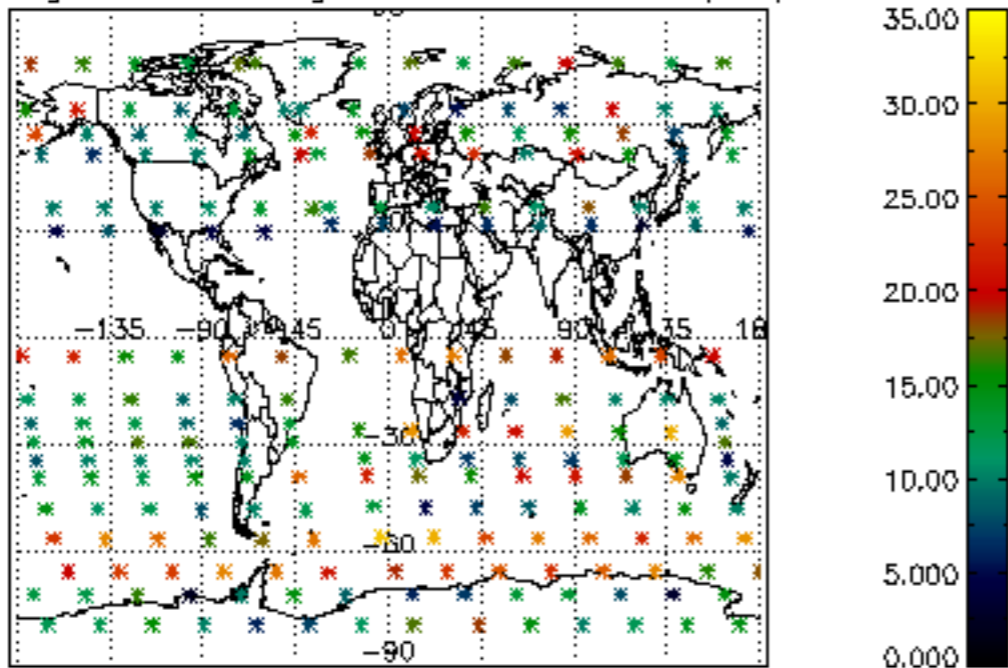
Percentage of cosmic ray hits per profile



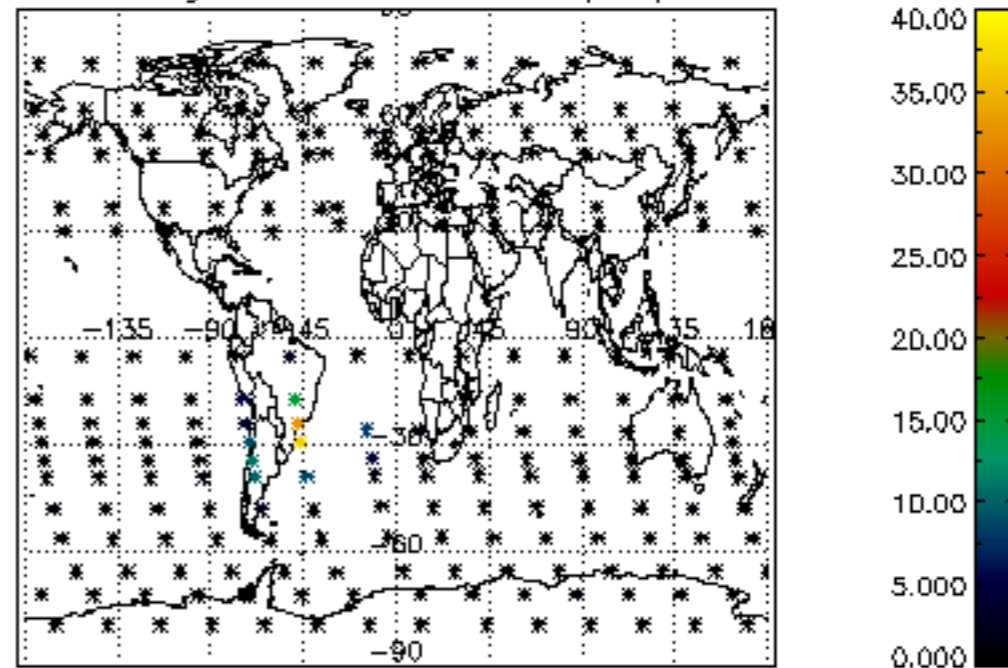
Percentage of datation errors per profile



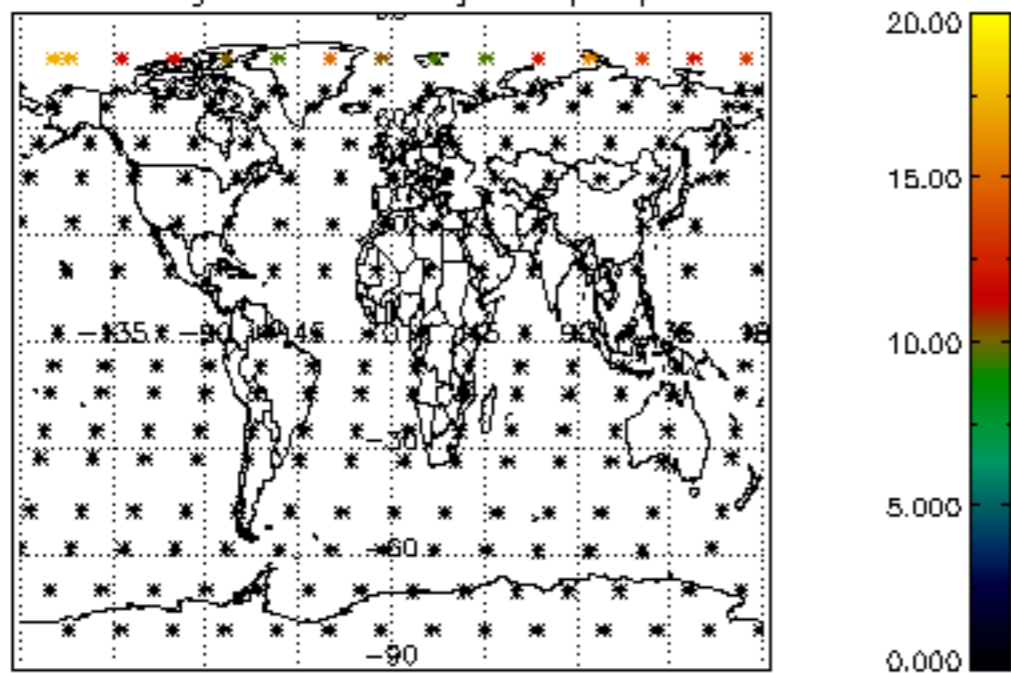
Percentage of star falling outside central band per profile



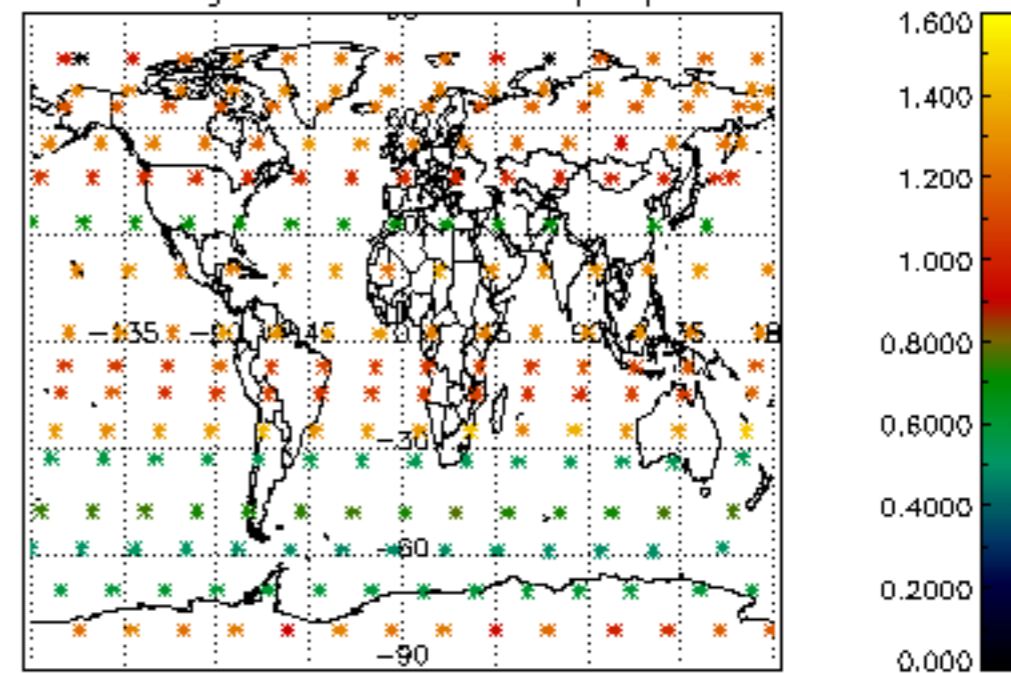
Percentage of saturation errors per profile



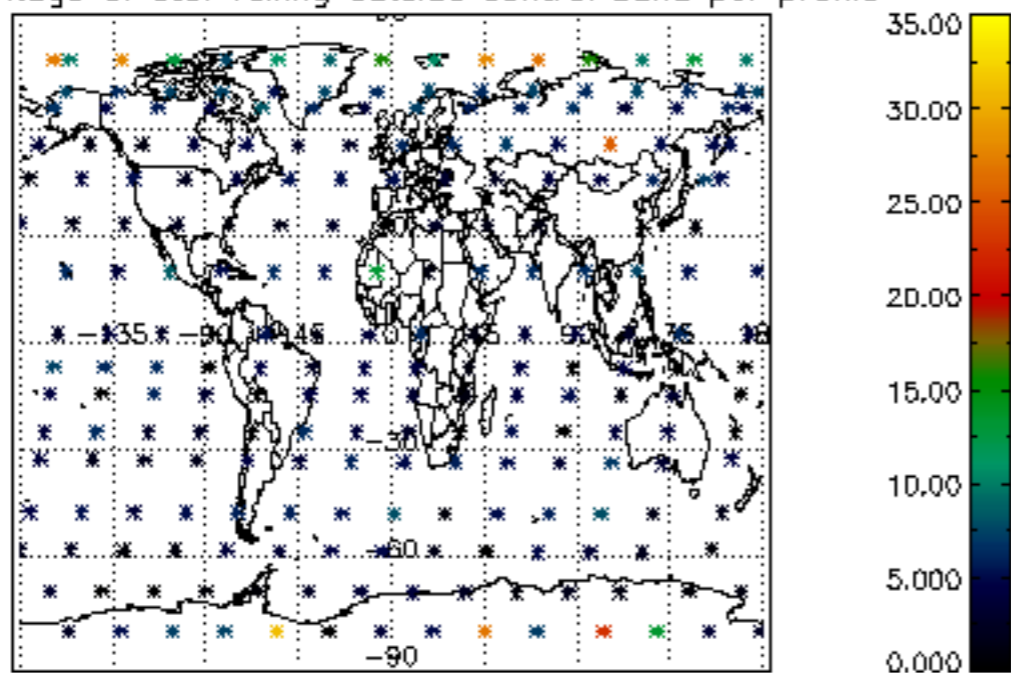
Percentage of cosmic ray hits per profile



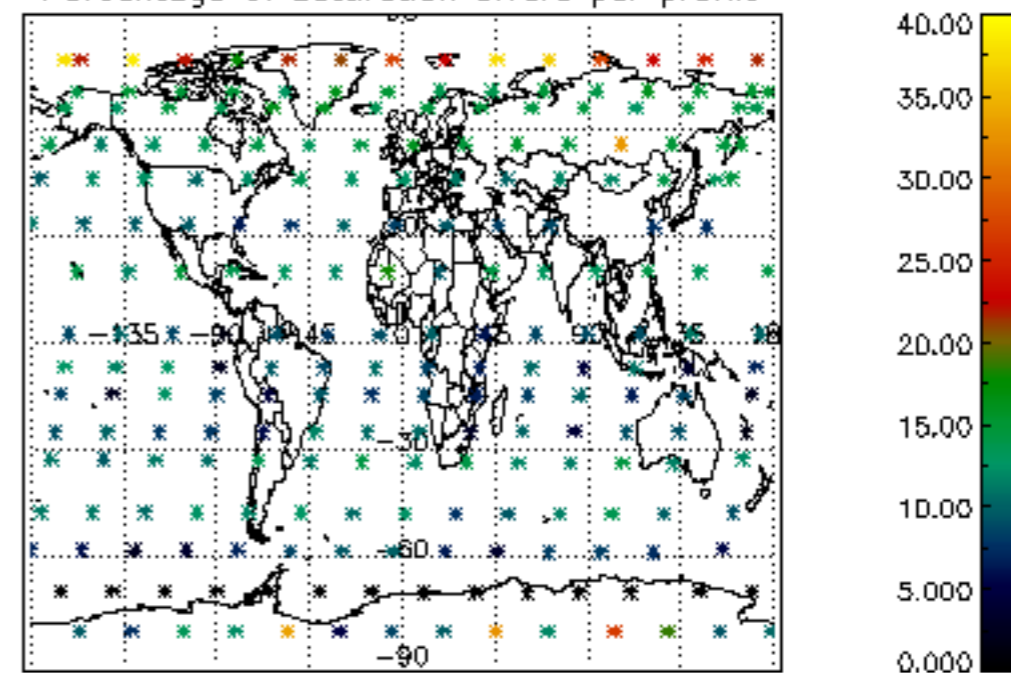
Percentage of datation errors per profile

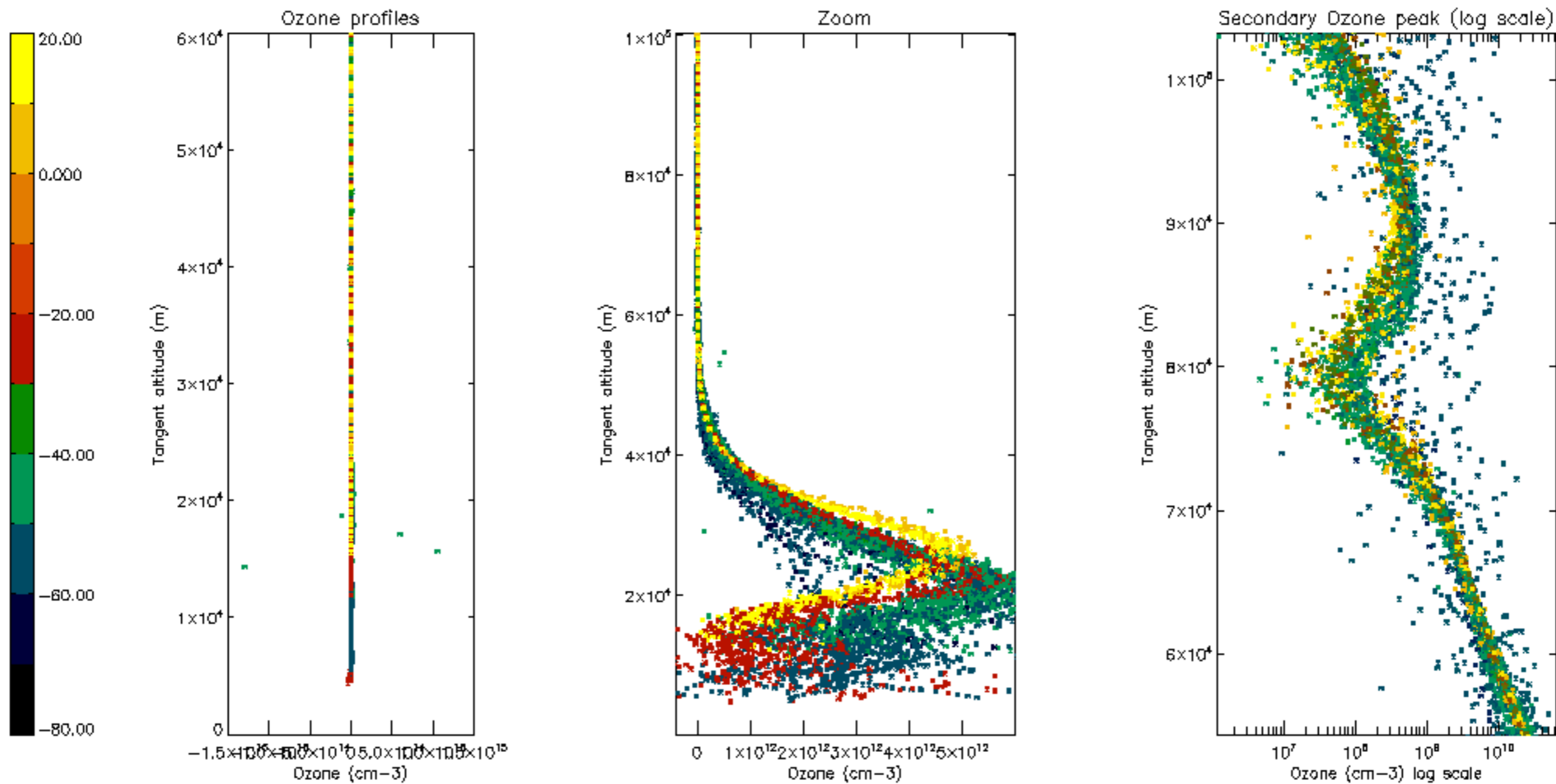


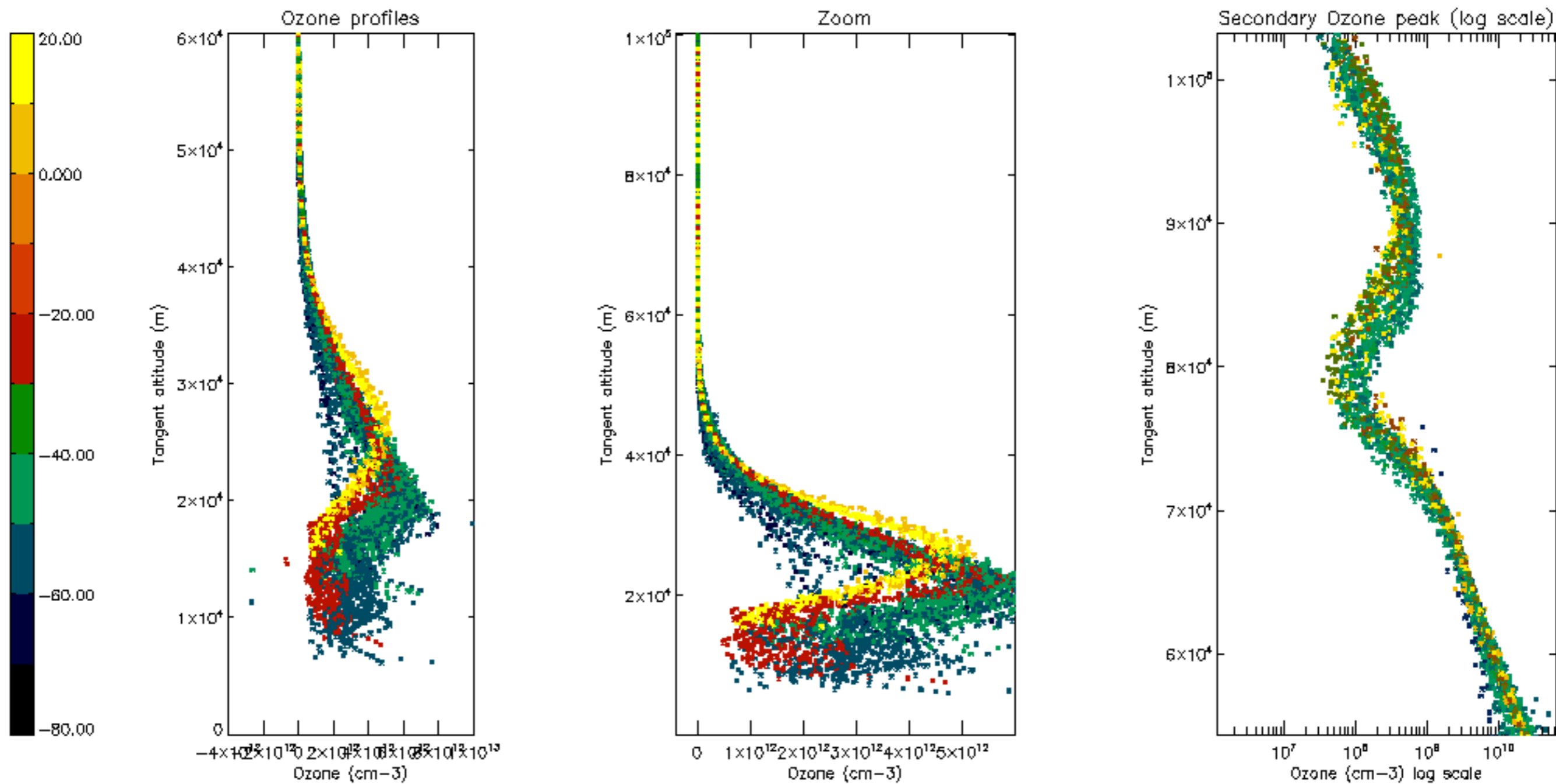
Percentage of star falling outside central band per profile

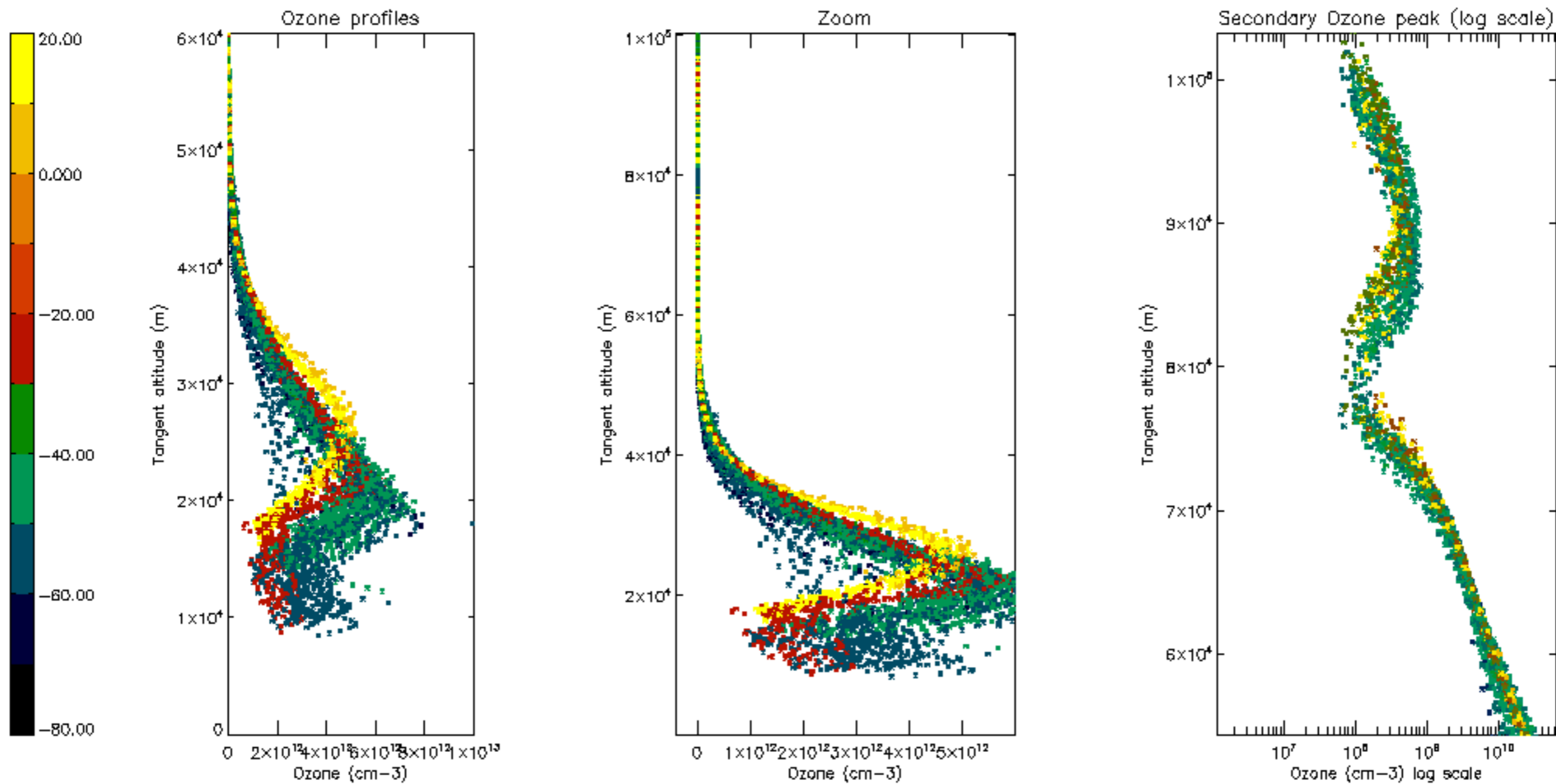


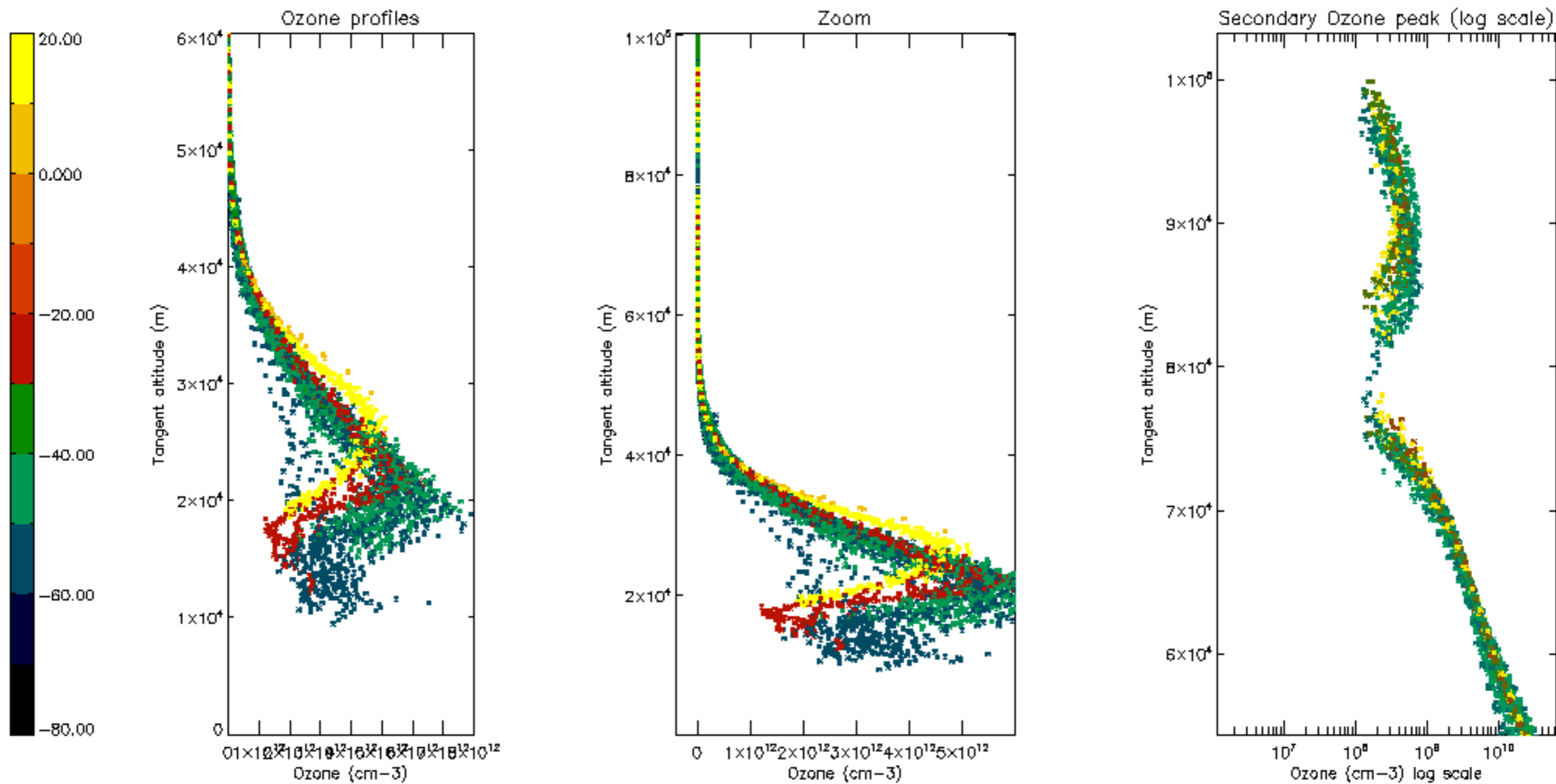
Percentage of saturation errors per profile

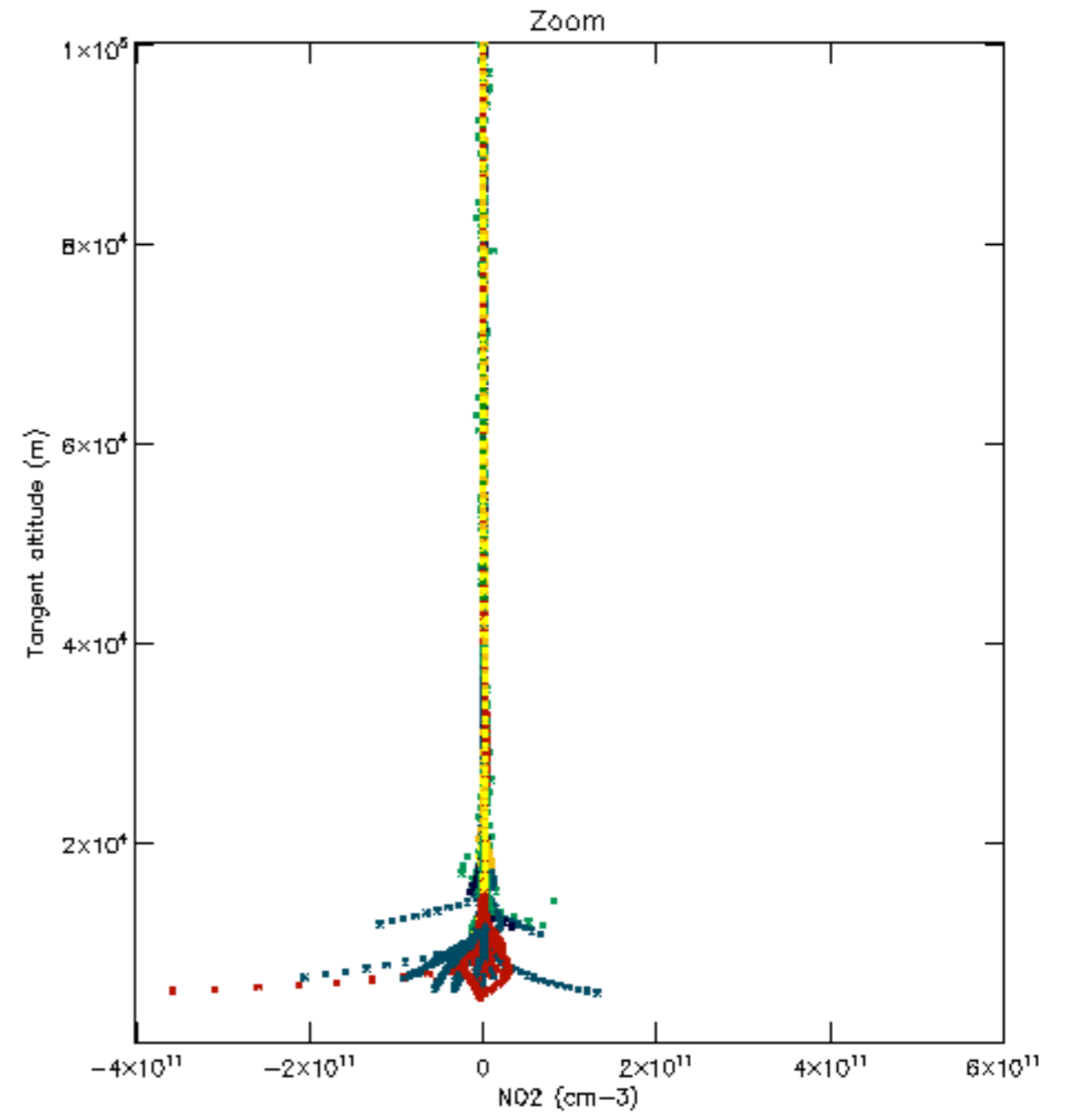
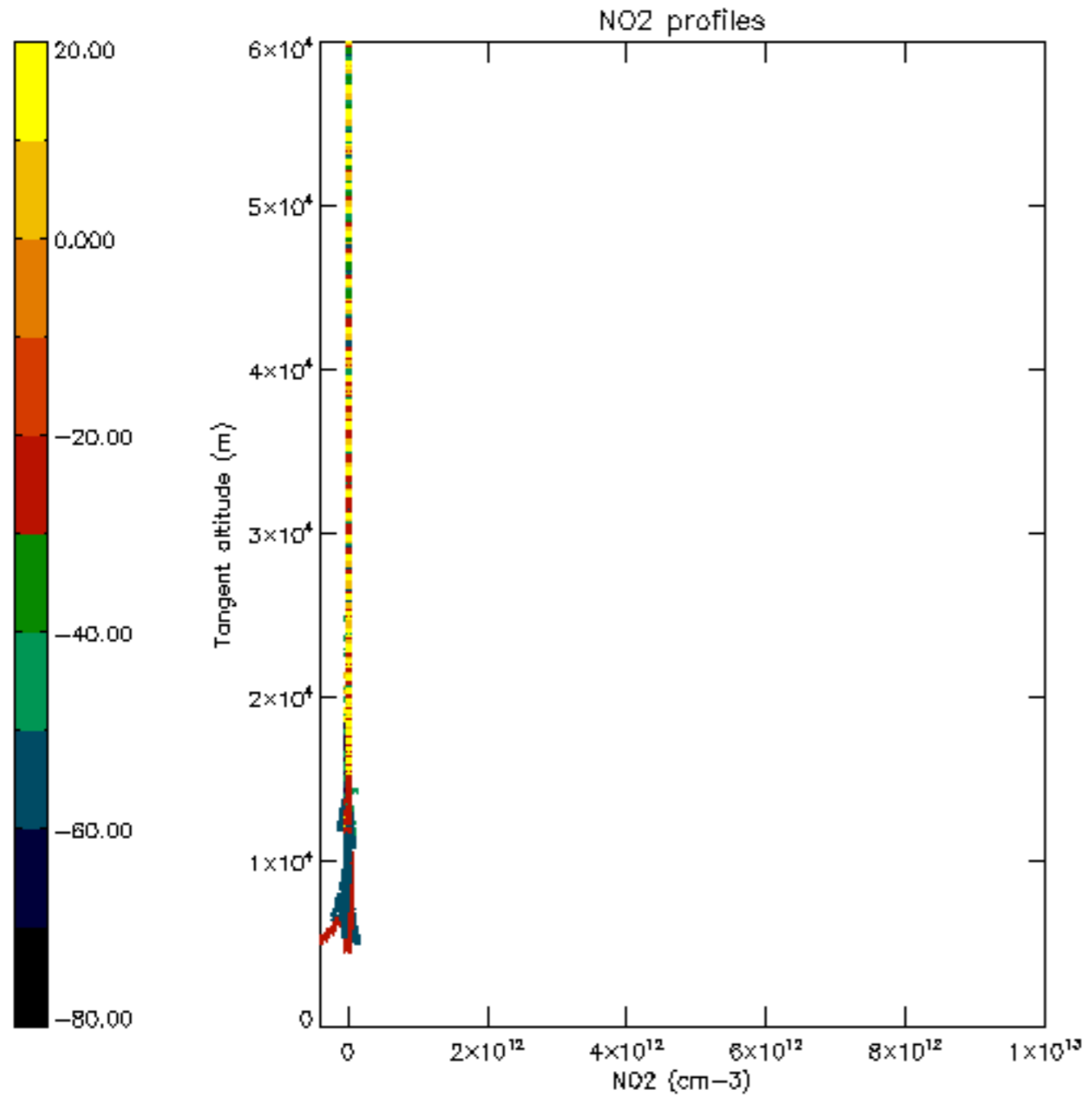


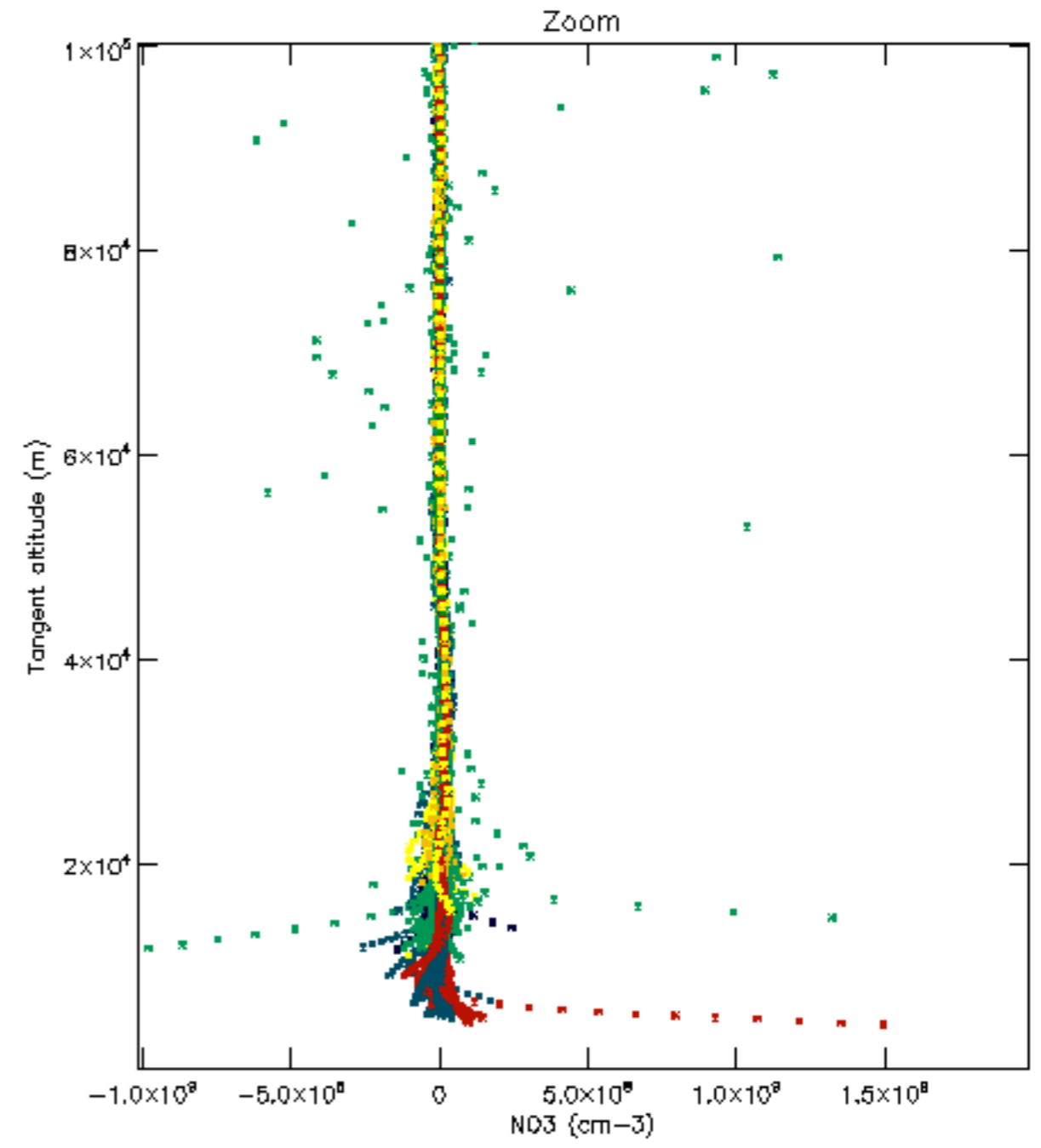
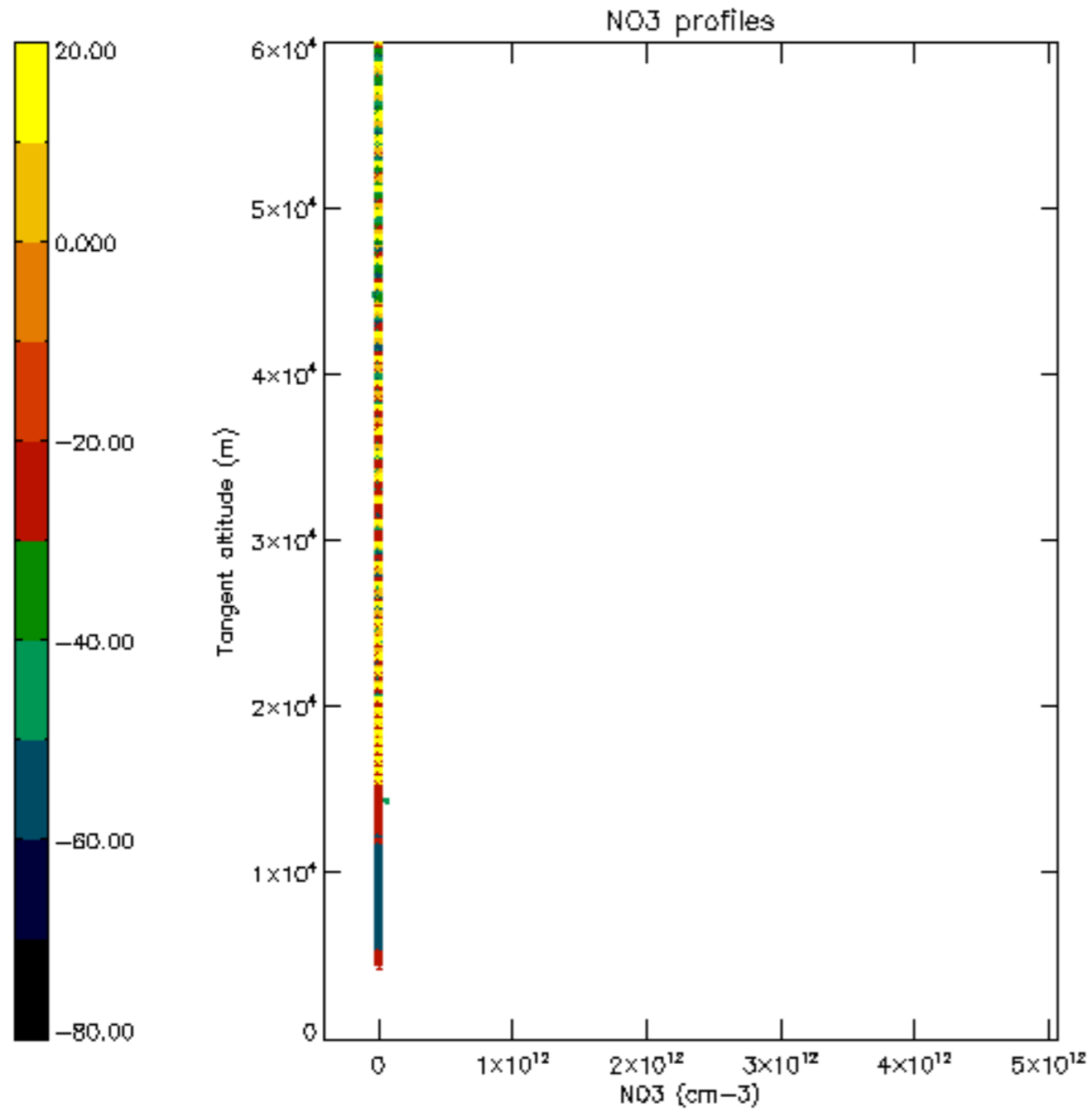


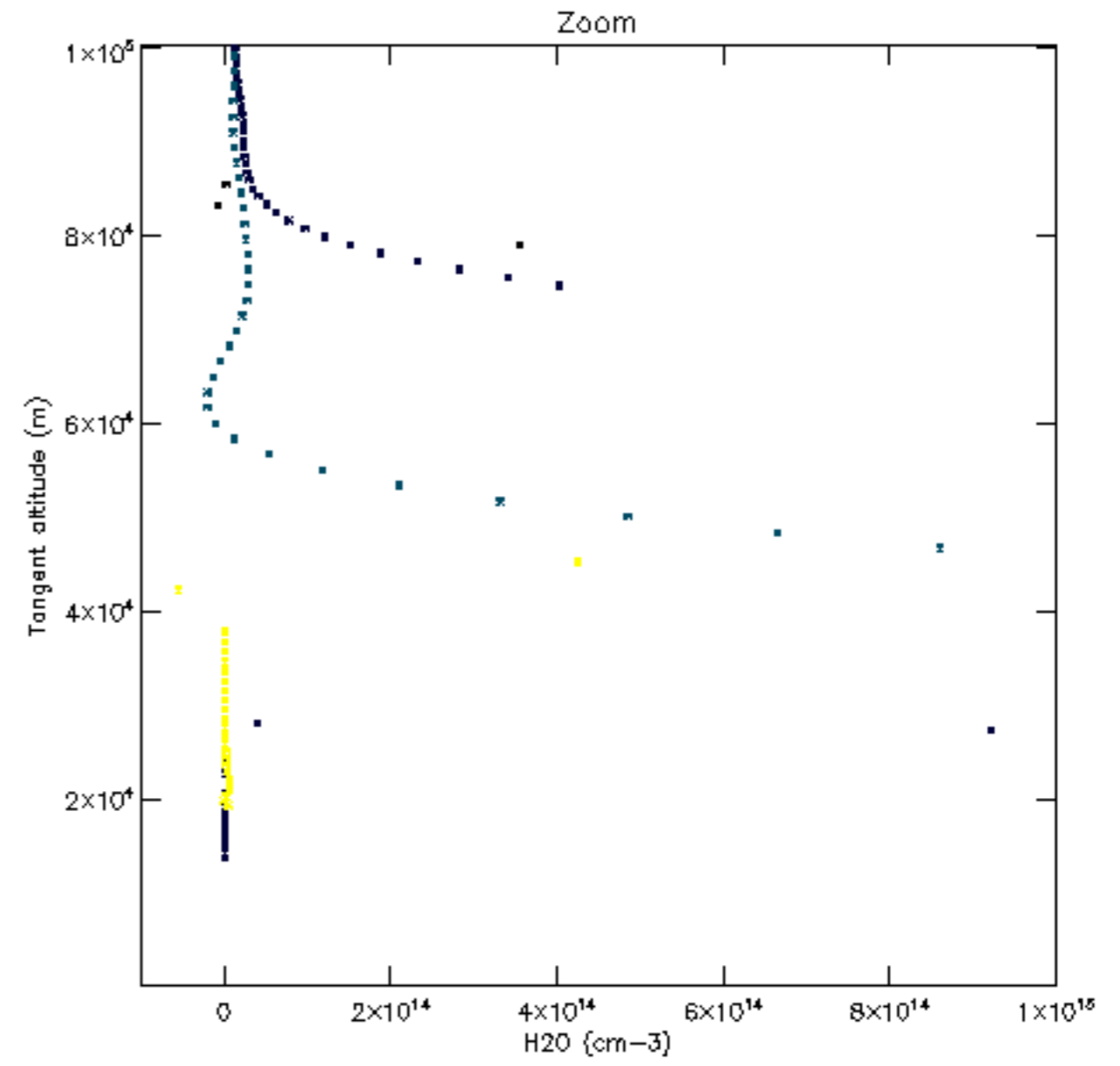
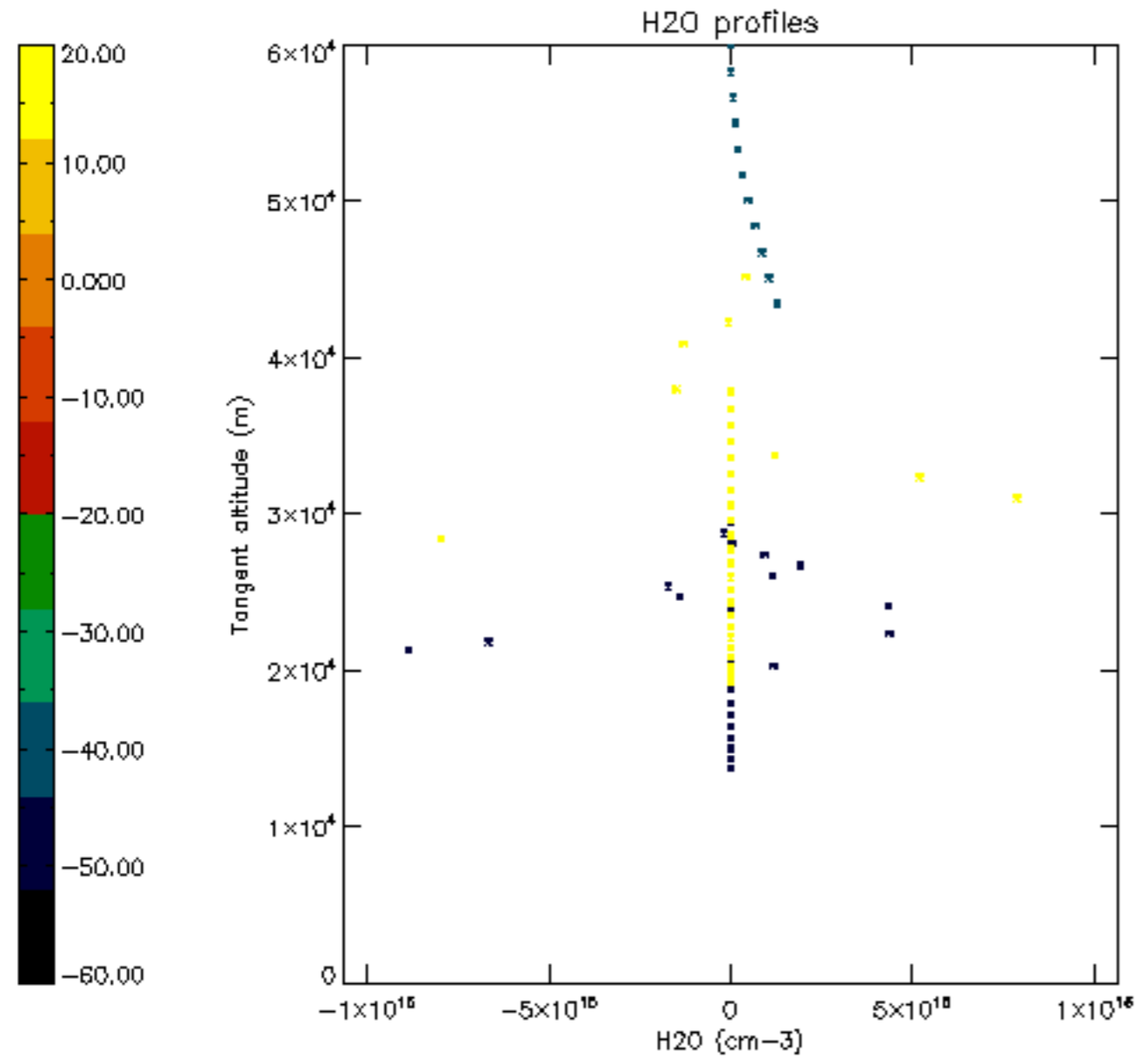


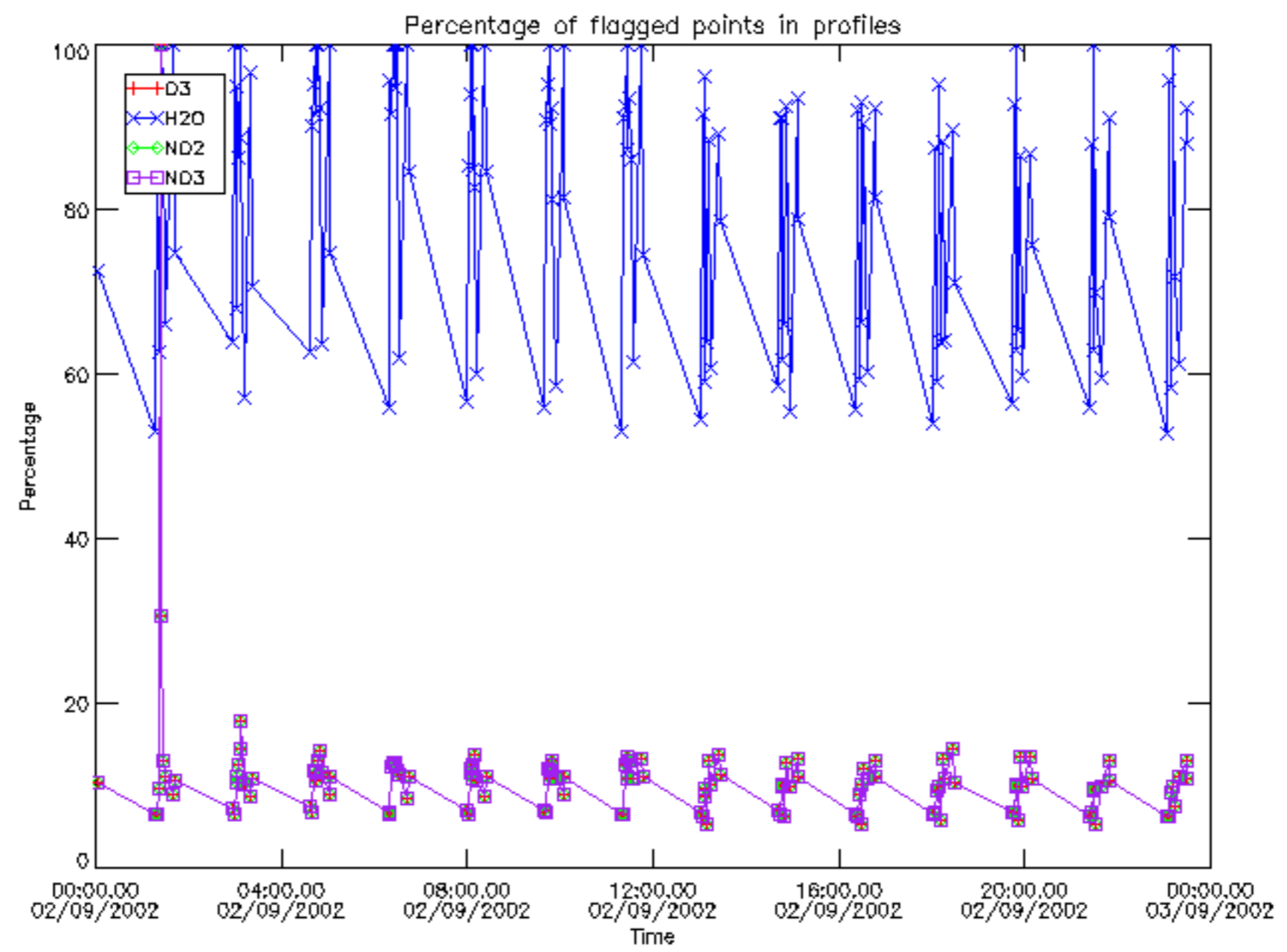




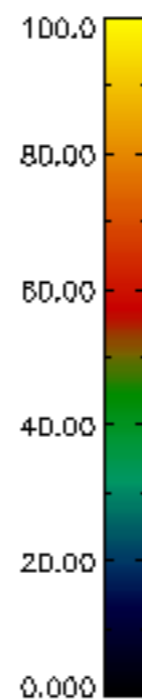
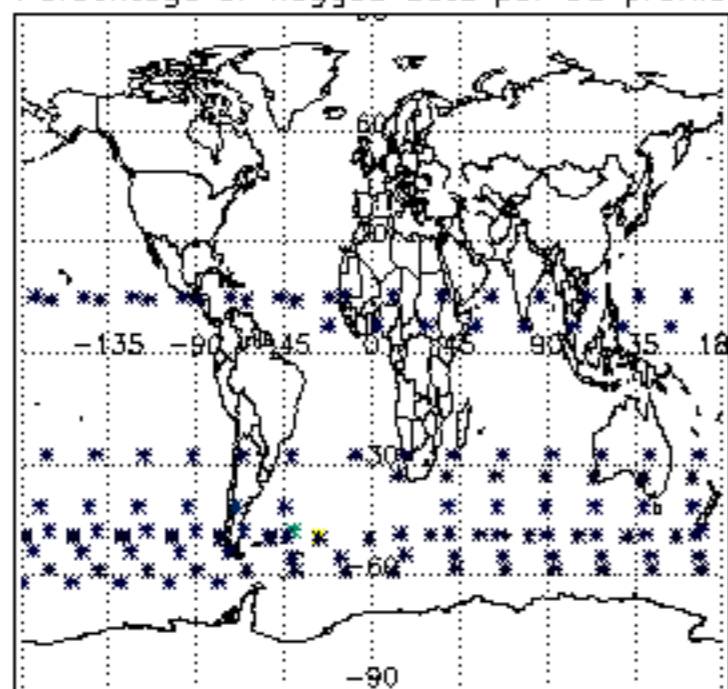




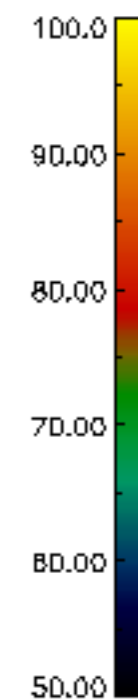
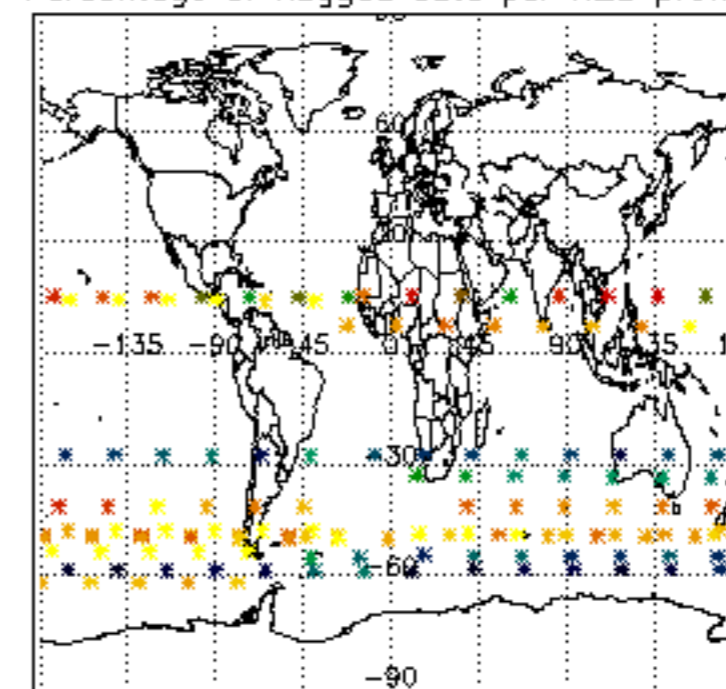




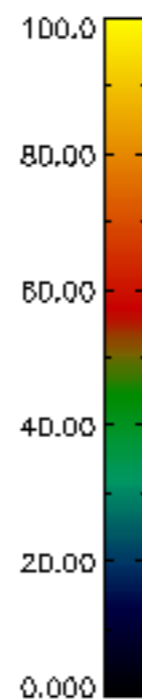
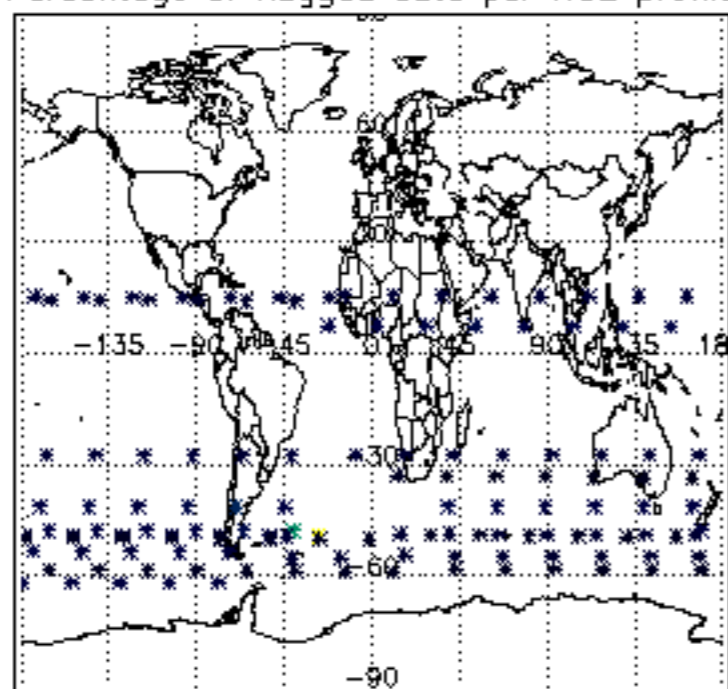
Percentage of flagged data per D3 profile



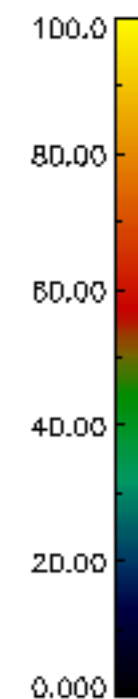
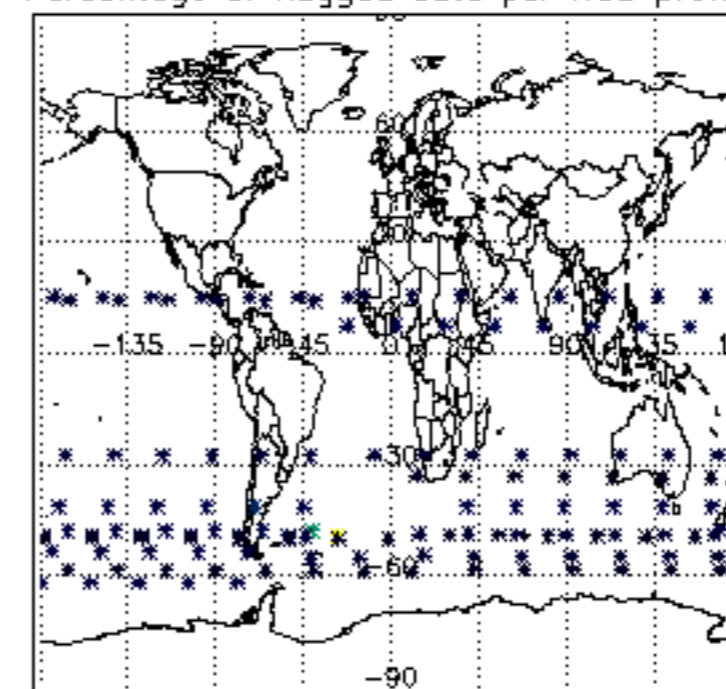
Percentage of flagged data per H2O profile

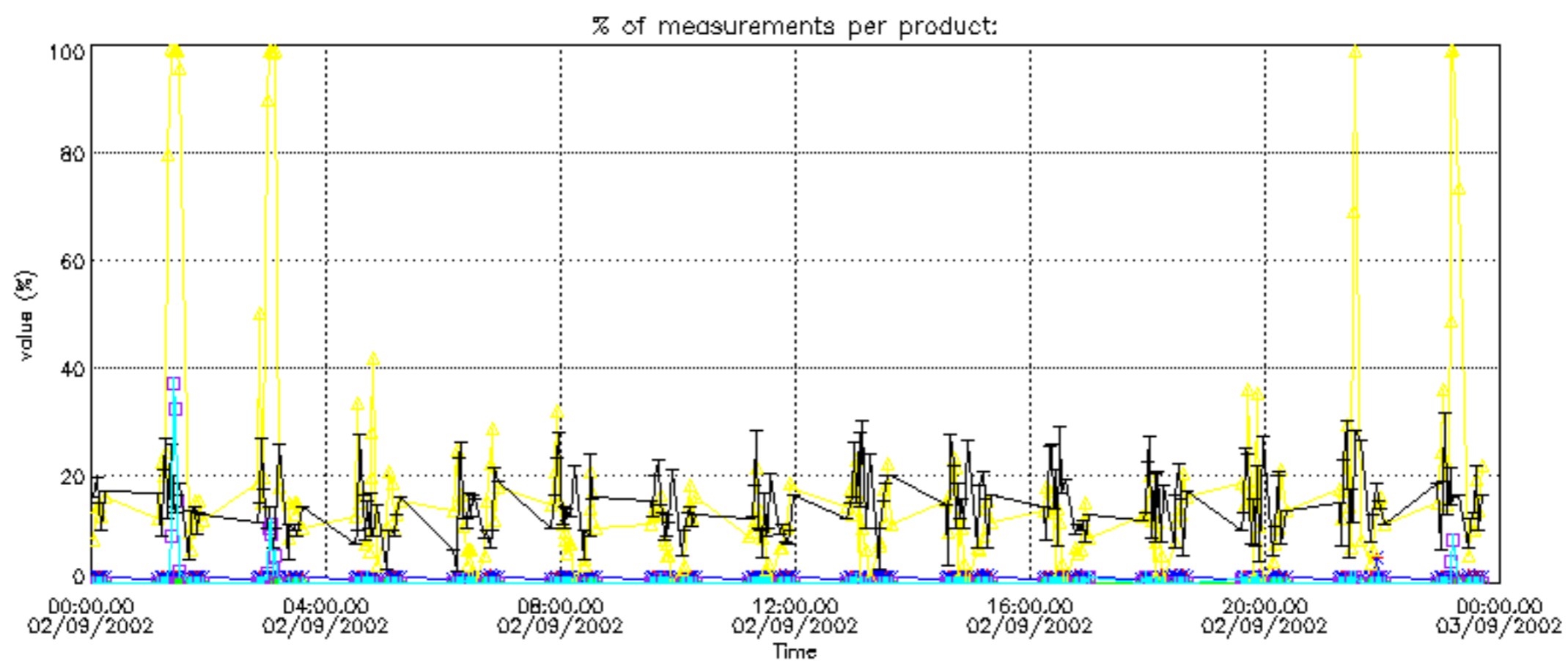
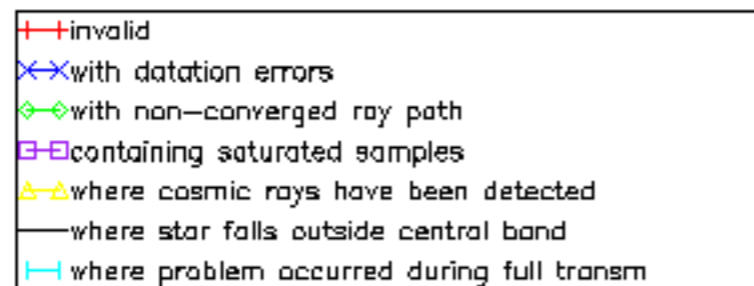


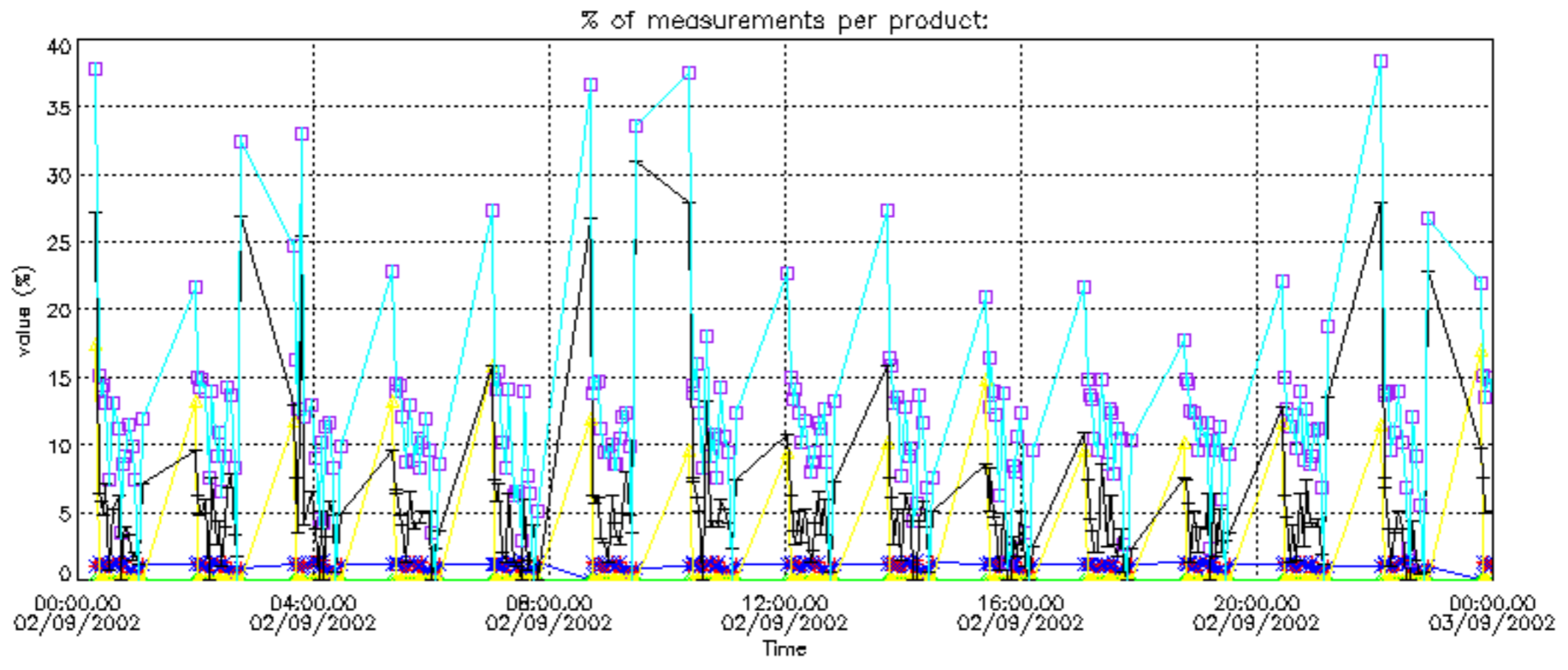
Percentage of flagged data per NO2 profile



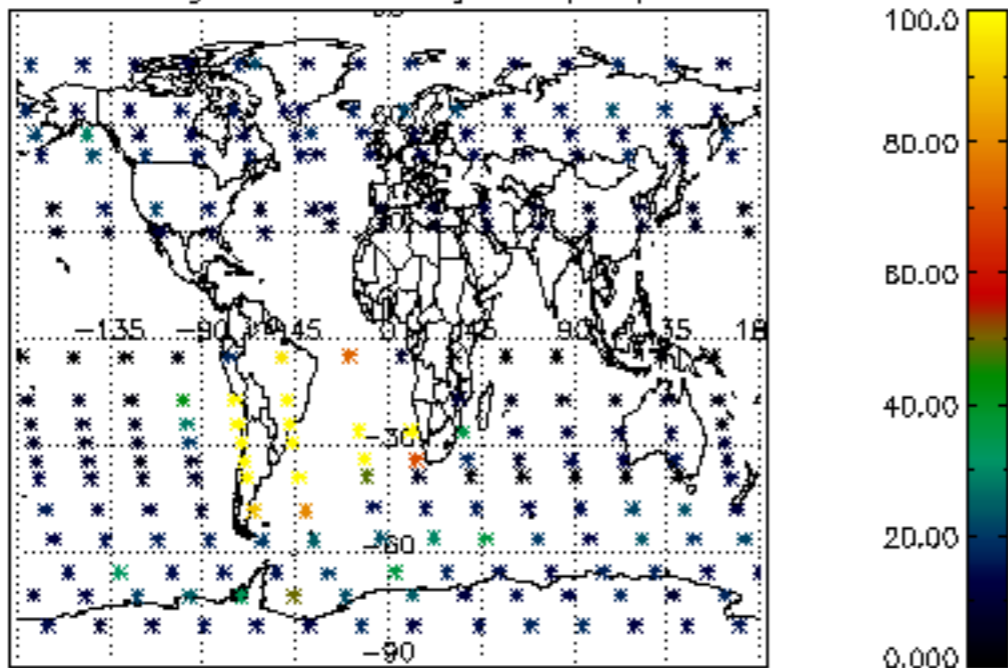
Percentage of flagged data per NO3 profile



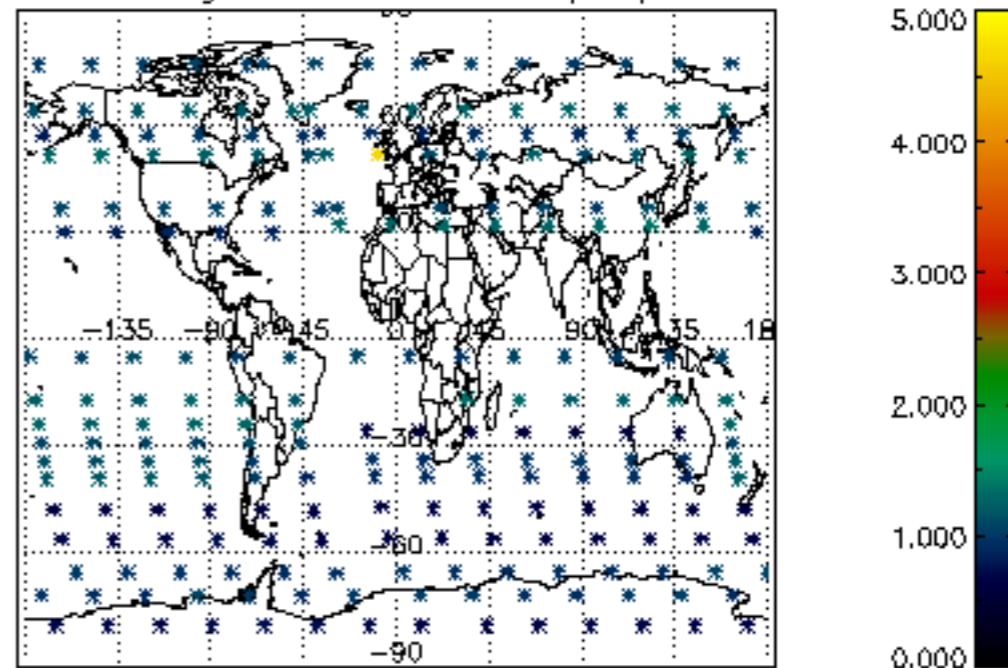




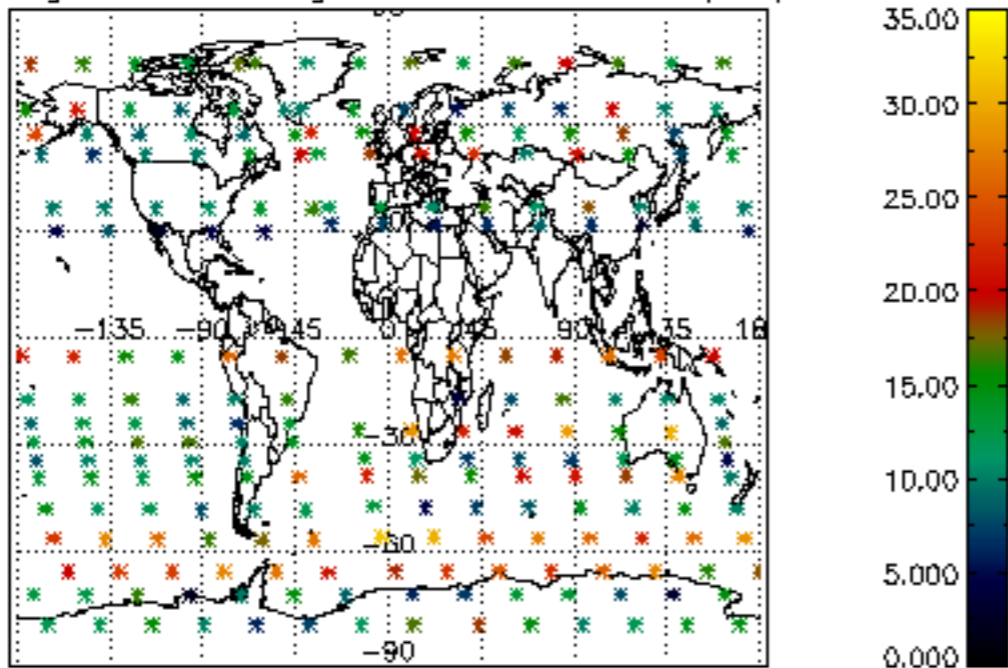
Percentage of cosmic ray hits per profile



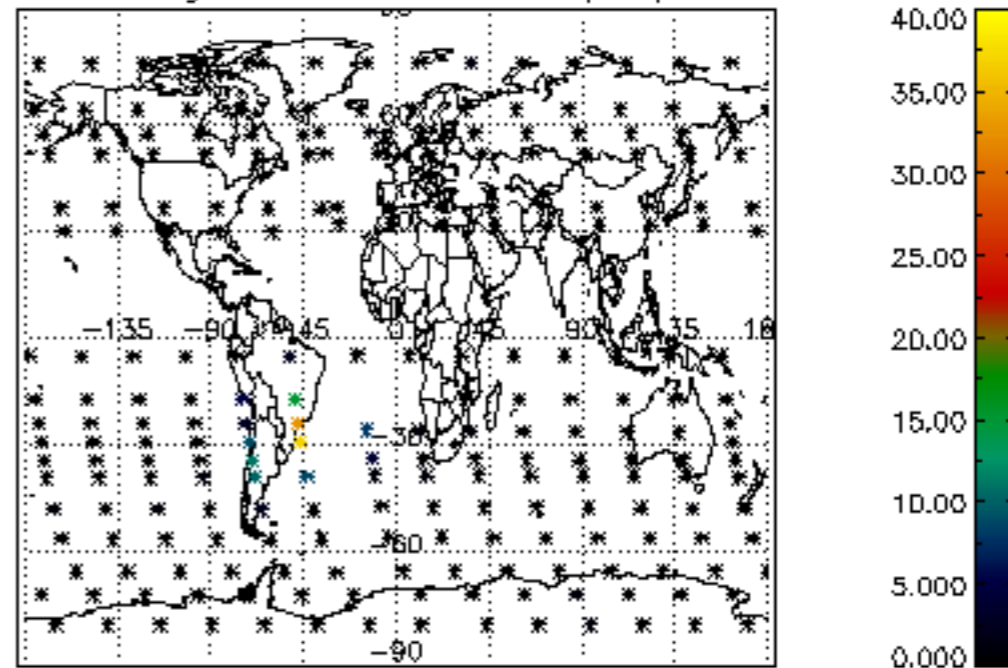
Percentage of datation errors per profile



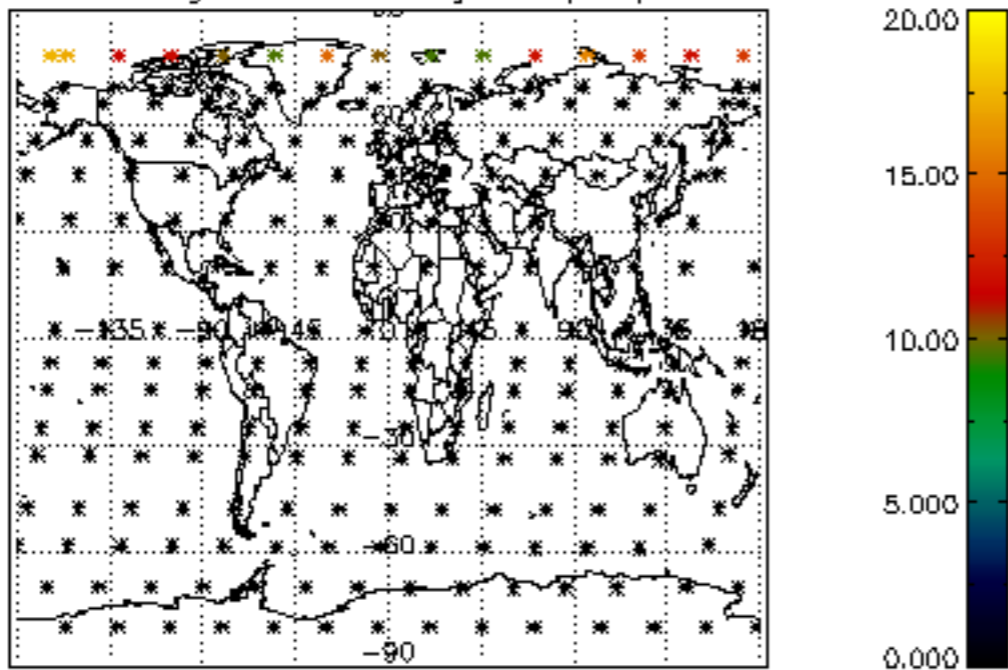
Percentage of star falling outside central band per profile



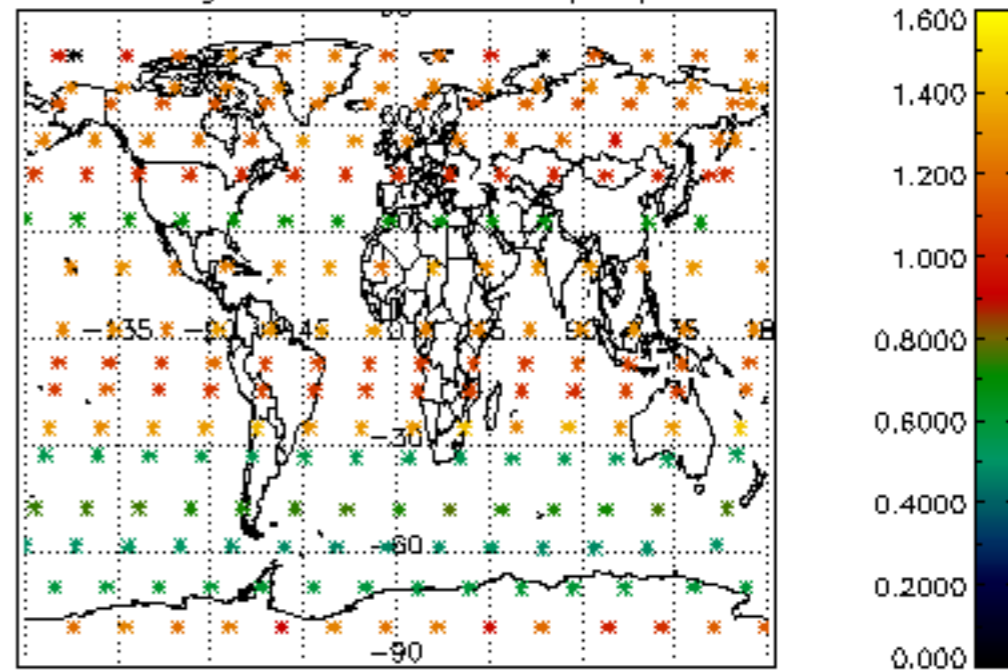
Percentage of saturation errors per profile



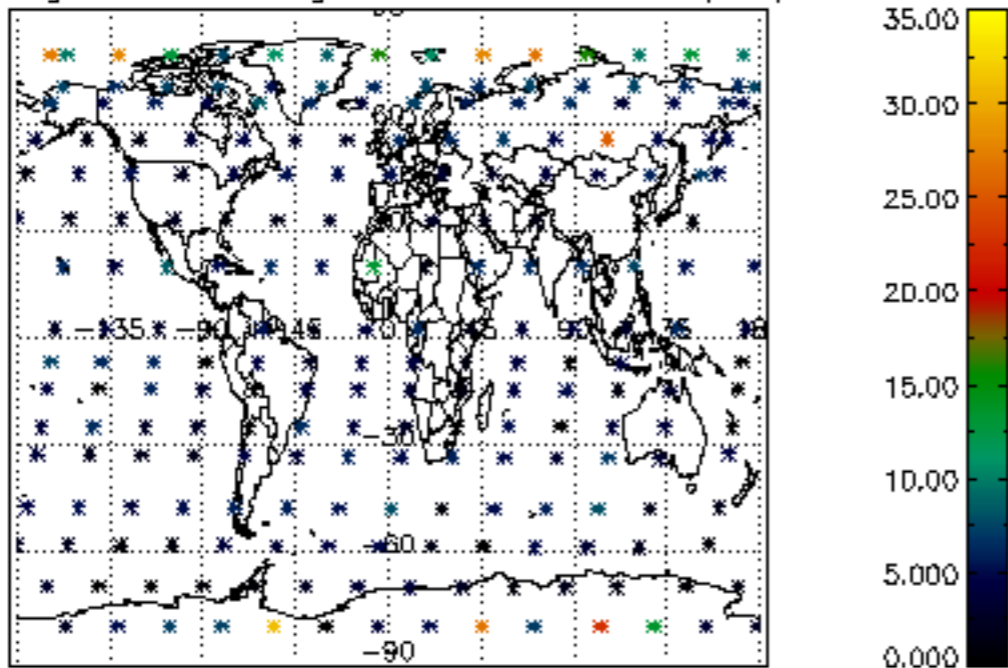
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

