

GOMOS Level 2 Daily Report

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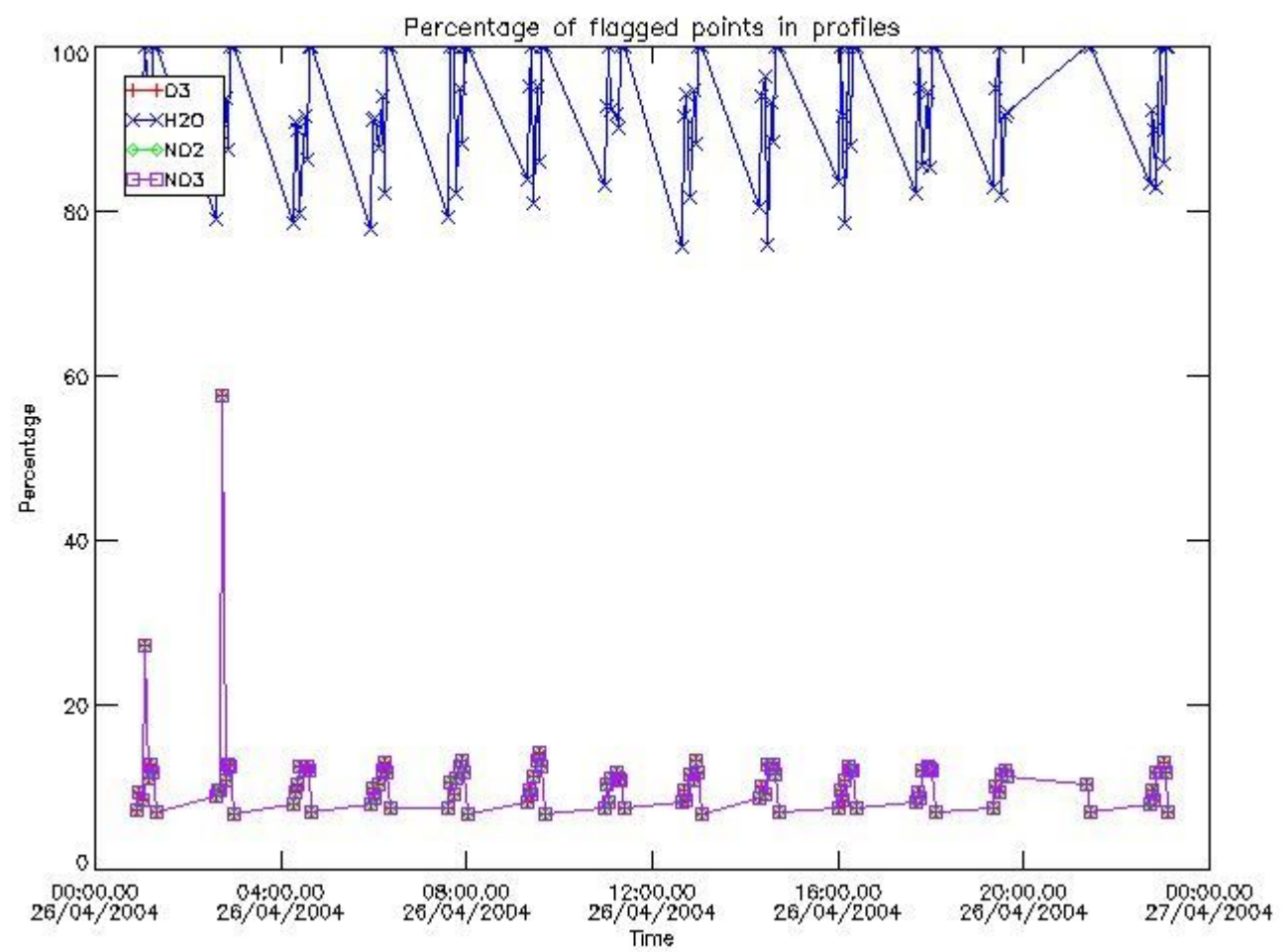
[6. Auxiliary Data Files used for the production reported in section 2](#)

456	GOM_NL__2PRFIN20040426_230224_000000432026_00202_11278_1927.N1	26-APR-2004 23:02:24	Dark	43.000	45	Alp Pav	1.9400	26000.	86	11278	No
457	GOM_NL__2PRFIN20040426_230721_000000732026_00202_11278_1928.N1	26-APR-2004 23:07:21	Dark	73.000	103	38Zet Sgr	2.6000	9700.0	146	11278	No
458	GOM_NL__2PRFIN20040426_230959_000000532026_00202_11278_1929.N1	26-APR-2004 23:09:59	Straylight	53.000	141	Bet Ara	2.8400	4600.0	106	11278	No
459	GOM_NL__2PRFIN20040426_231136_000000662026_00202_11278_1930.N1	26-APR-2004 23:11:36	Straylight	65.500	40	The Sco	1.8590	7100.0	131	11278	No
460	GOM_NL__2PRFIN20040426_231334_000000512026_00202_11278_1931.N1	26-APR-2004 23:13:34	Straylight	51.000	4	Alp1Cen	-0.010000	5800.0	102	11278	No
461	GOM_NL__2PRFIN20040426_231517_000000442026_00202_11278_1932.N1	26-APR-2004 23:15:17	Straylight	44.000	20	Bet Cru	1.2530	30000.	88	11278	No
462	GOM_NL__2PRFIN20040426_231657_000000442026_00202_11278_1933.N1	26-APR-2004 23:16:57	Straylight	43.500	78	Alp Lup	2.3040	28000.	87	11278	No
463	GOM_NL__2PRFIN20040426_231830_000000442026_00202_11278_1934.N1	26-APR-2004 23:18:30	Straylight	43.500	81	Eta Cen	2.3560	28000.	87	11278	No
464	GOM_NL__2PRFIN20040426_232034_000000872026_00202_11278_1935.N1	26-APR-2004 23:20:34	Twl_and_stray	87.000	16	21Alp Sco	1.0200	3000.0	174	11278	No
465	GOM_NL__2PRFIN20040426_232300_000000672026_00202_11278_1936.N1	26-APR-2004 23:23:00	Twl_and_stray	67.000	80	7Del Sco	2.3160	30000.	134	11278	No
466	GOM_NL__2PRFIN20040426_232458_000000432026_00202_11278_1937.N1	26-APR-2004 23:24:58	Bright	43.000	169	46Gam Hya	2.9910	4700.0	86	11278	No
467	GOM_NL__2PRFIN20040426_232714_000000372026_00202_11278_1938.N1	26-APR-2004 23:27:14	Bright	36.500	100	4Gam Crv	2.5800	13100.	73	11278	No
468	GOM_NL__2PRFIN20040426_232849_000000542026_00202_11278_1939.N1	26-APR-2004 23:28:49	Bright	54.000	104	27Bet Lib	2.6140	13100.	108	11278	No
469	GOM_NL__2PRFIN20040426_233125_000000392026_00202_11278_1940.N1	26-APR-2004 23:31:25	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	11278	No
470	GOM_NL__2PRFIN20040426_233449_000000382026_00202_11278_1941.N1	26-APR-2004 23:34:49	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	11278	No
471	GOM_NL__2PRFIN20040426_233626_000000362026_00202_11278_1942.N1	26-APR-2004 23:36:26	Bright	36.000	62	94Bet Leo	2.1360	9700.0	72	11278	No
472	GOM_NL__2PRFIN20040426_233758_000000462026_00202_11278_1943.N1	26-APR-2004 23:37:58	Bright	46.000	3	16Alp Boo	-0.050000	4250.0	92	11278	No
473	GOM_NL__2PRFIN20040426_234239_000000382026_00202_11278_1944.N1	26-APR-2004 23:42:39	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	11278	No
474	GOM_NL__2PRFIN20040426_234420_000000422026_00202_11278_1945.N1	26-APR-2004 23:44:20	Bright	42.000	180	27Gam Boo	3.0400	8000.0	84	11278	No
475	GOM_NL__2PRFIN20040426_234621_000000392026_00202_11278_1946.N1	26-APR-2004 23:46:21	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	11278	No
476	GOM_NL__2PRFIN20040426_234819_000000392026_00202_11278_1947.N1	26-APR-2004 23:48:19	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	11278	No
477	GOM_NL__2PRFIN20040426_234942_000000392026_00202_11278_1948.N1	26-APR-2004 23:49:42	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	11278	No
478	GOM_NL__2PRFIN20040426_235347_000000412026_00202_11278_1949.N1	26-APR-2004 23:53:47	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	11278	No
479	GOM_NL__2PRFIN20040426_235721_000000362026_00202_11278_1950.N1	26-APR-2004 23:57:21	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	11278	No
480	GOM_NL__2PRFIN20040426_235910_000000672026_00202_11278_1951.N1	26-APR-2004 23:59:10	Bright	67.000	69	33Gam Dra	2.2310	3800.0	134	11278	No

3. Quality information per product

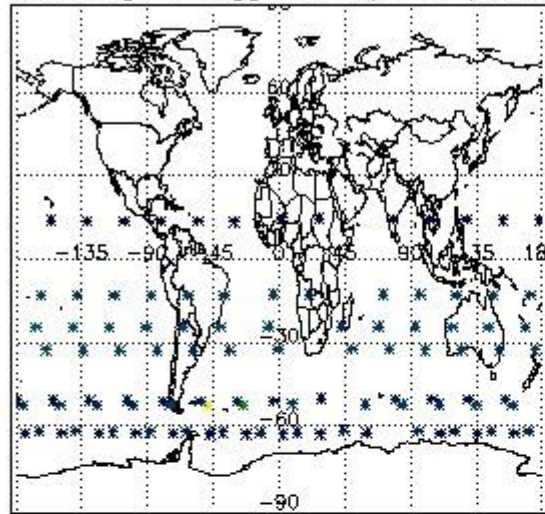
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

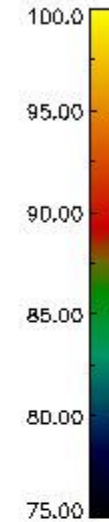
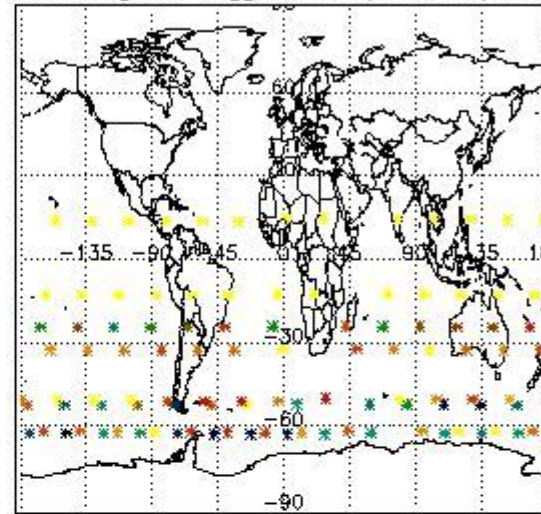


3.2 Plot quality information per product (world map)

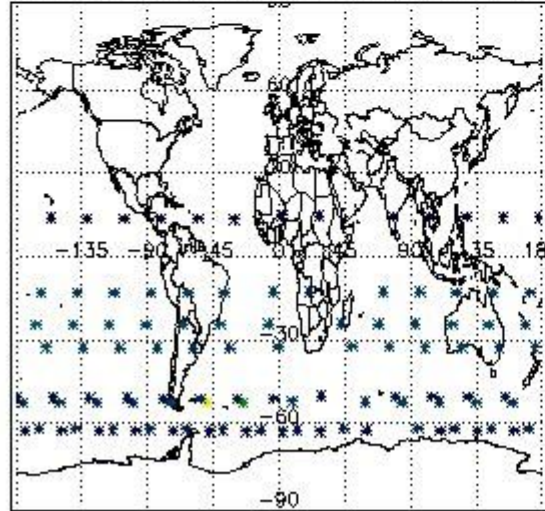
Percentage of flagged data per O3 profile



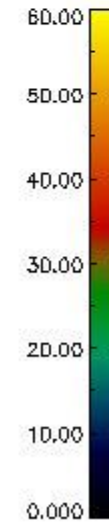
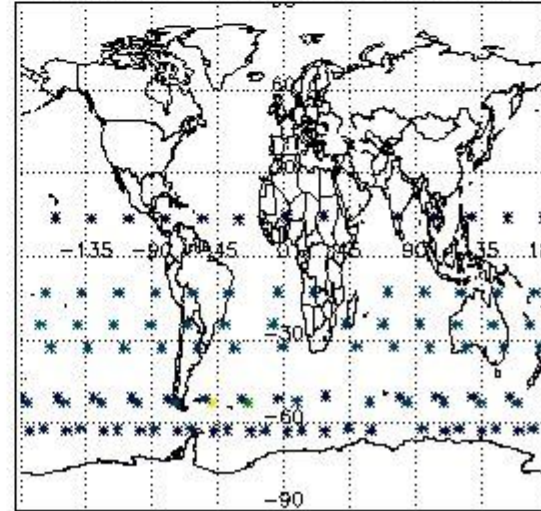
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

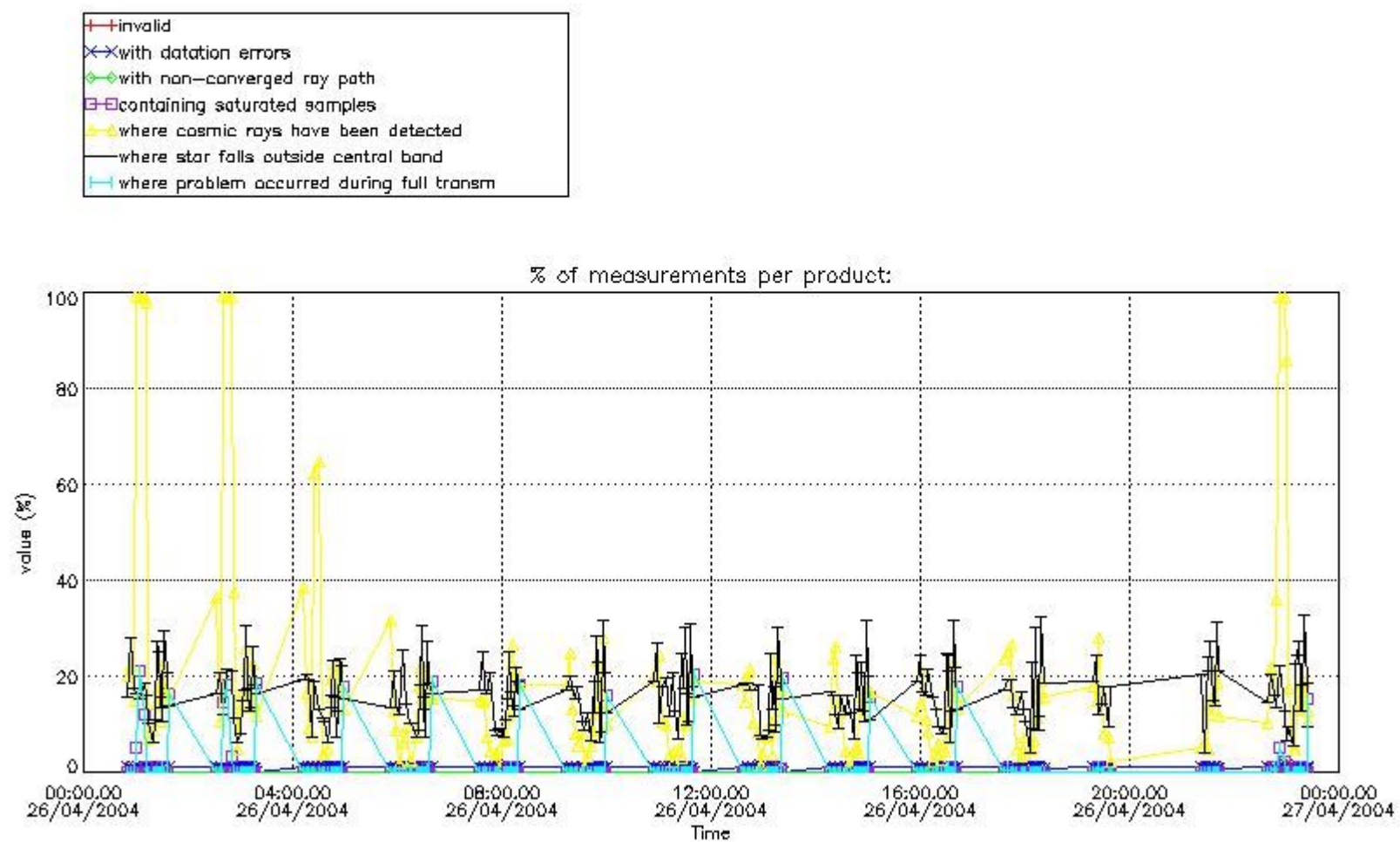


4. Level 1 quality information per product

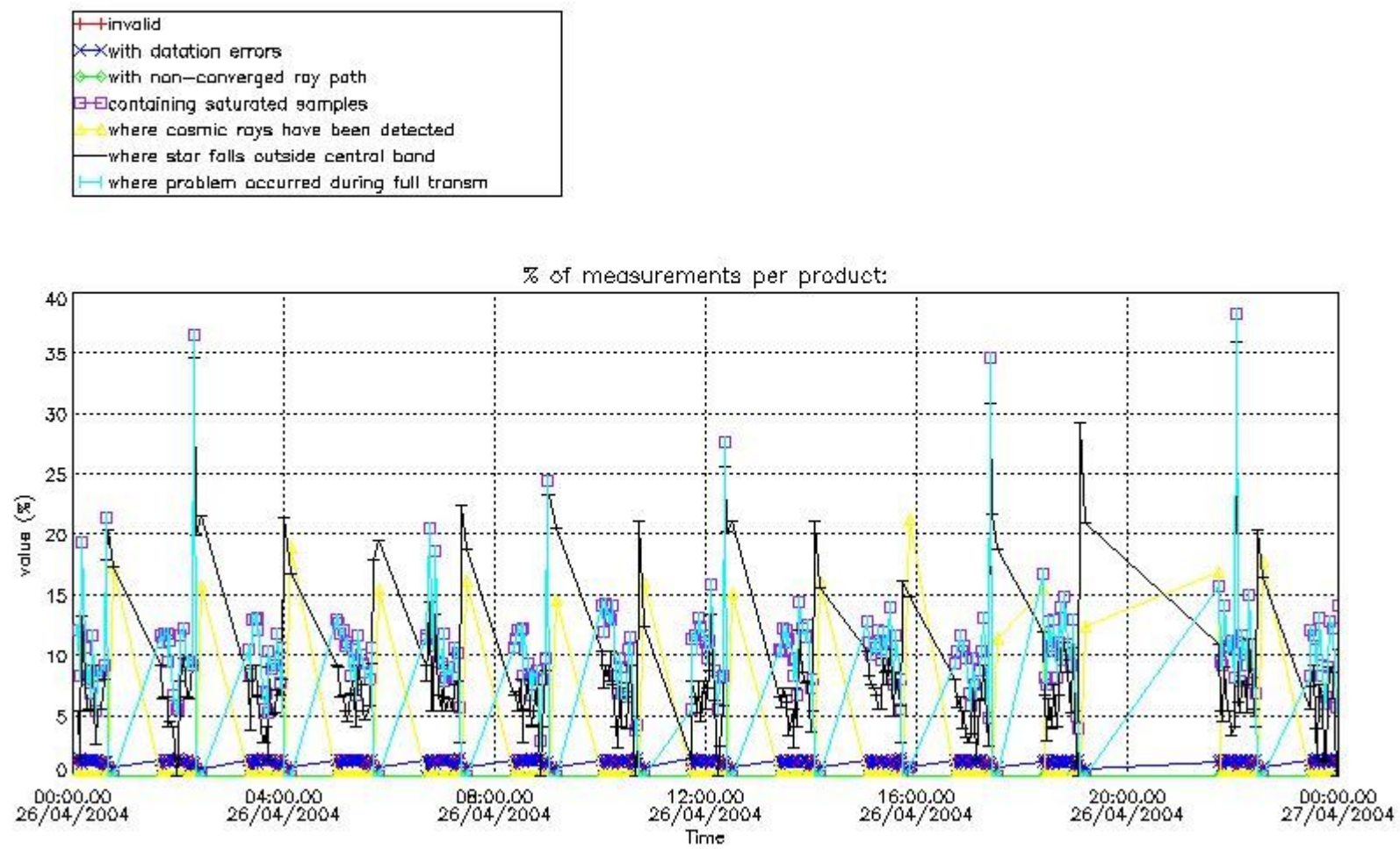
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

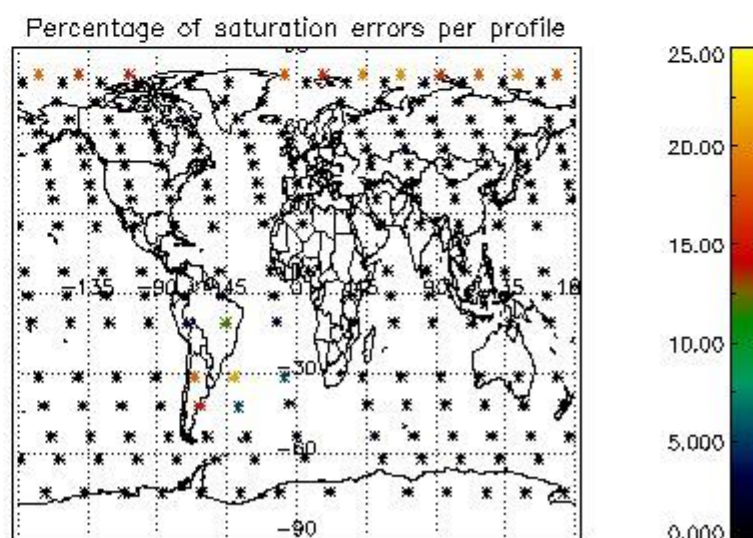
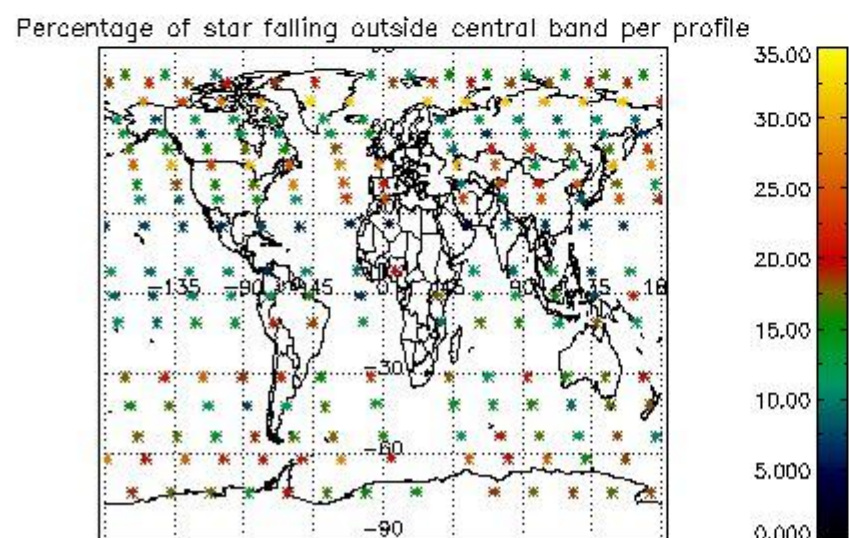
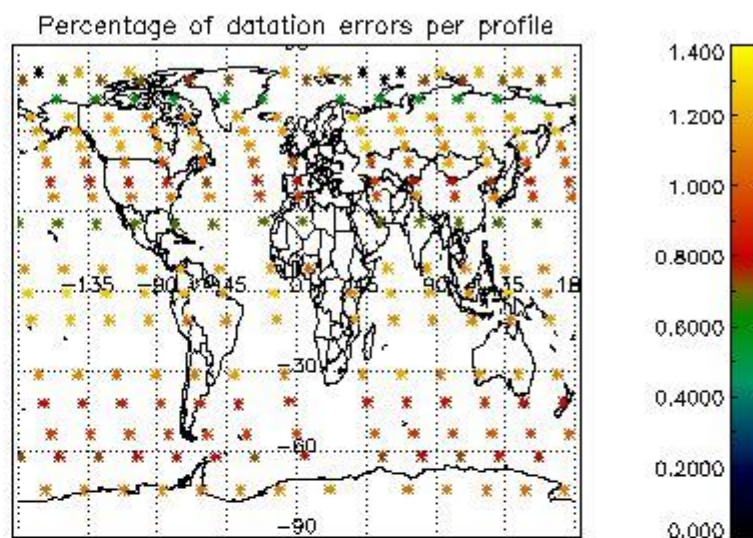
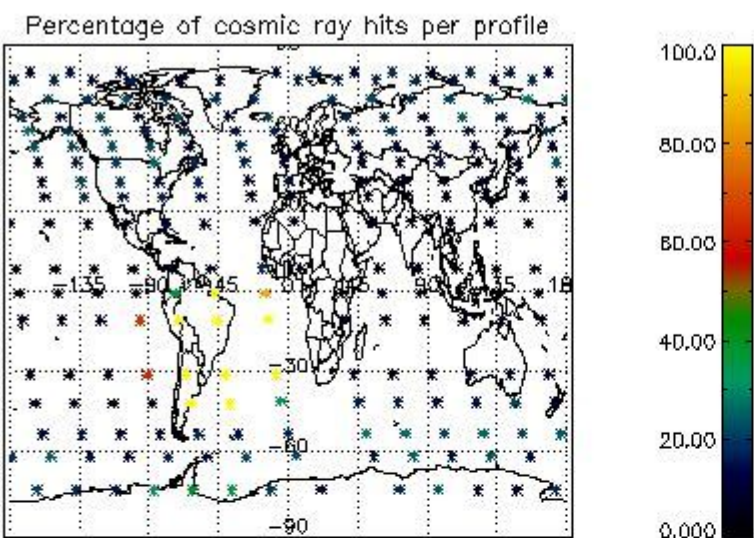


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

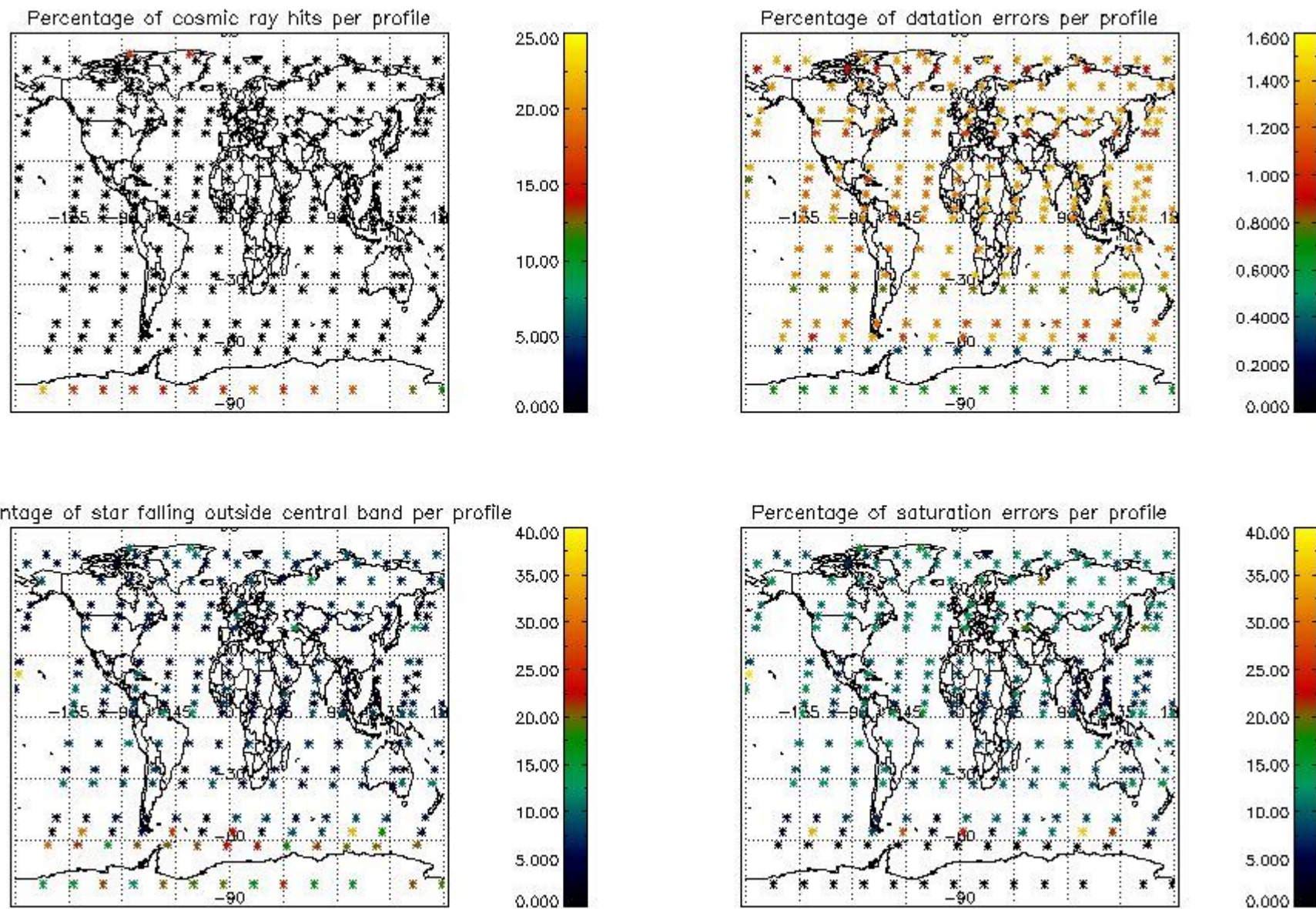


4.2 Plot quality information per product coming from level 1b processing (world map)

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

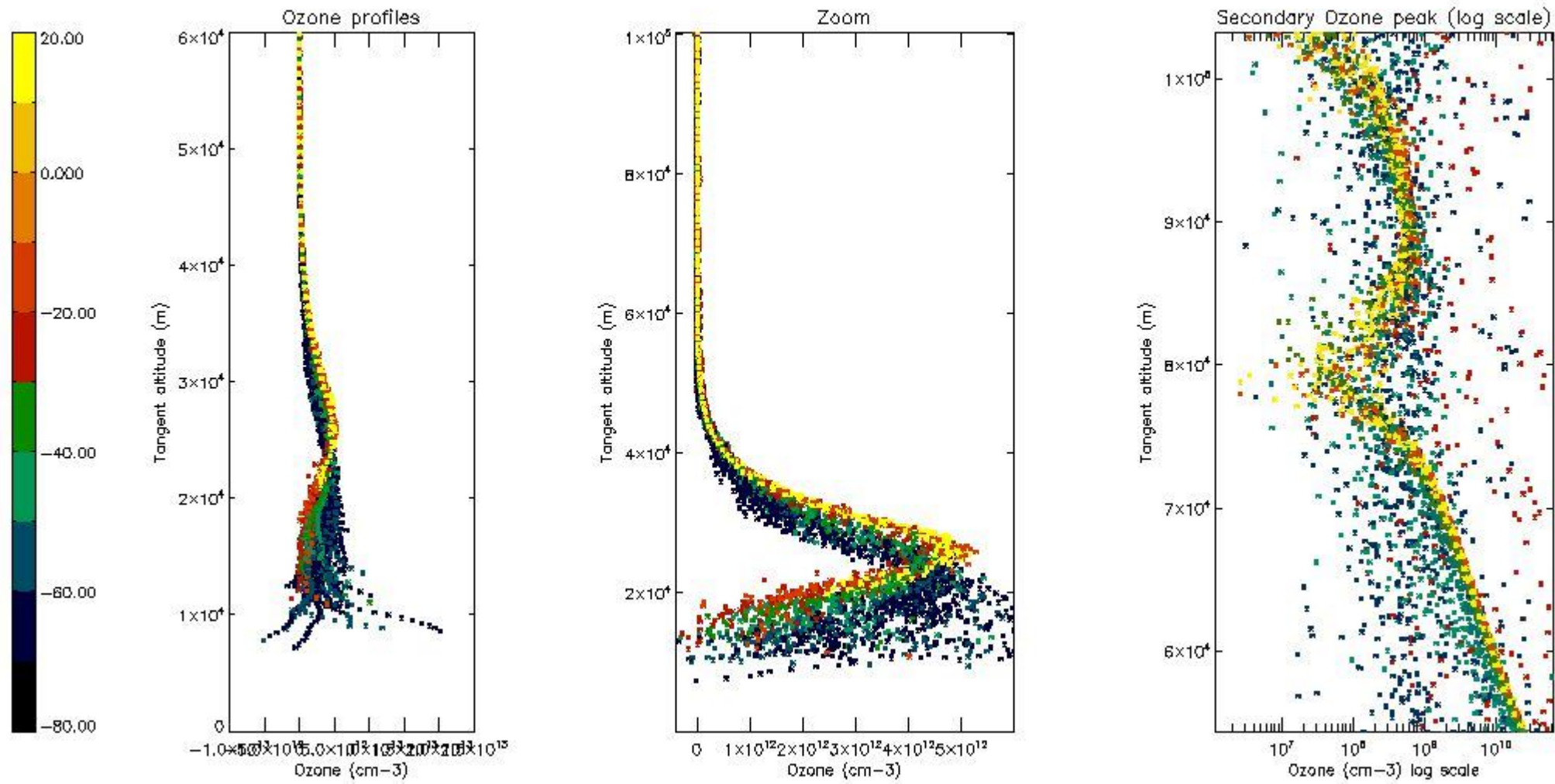
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	23
STD < 20	11

STD < 10	8
STD < 5	5

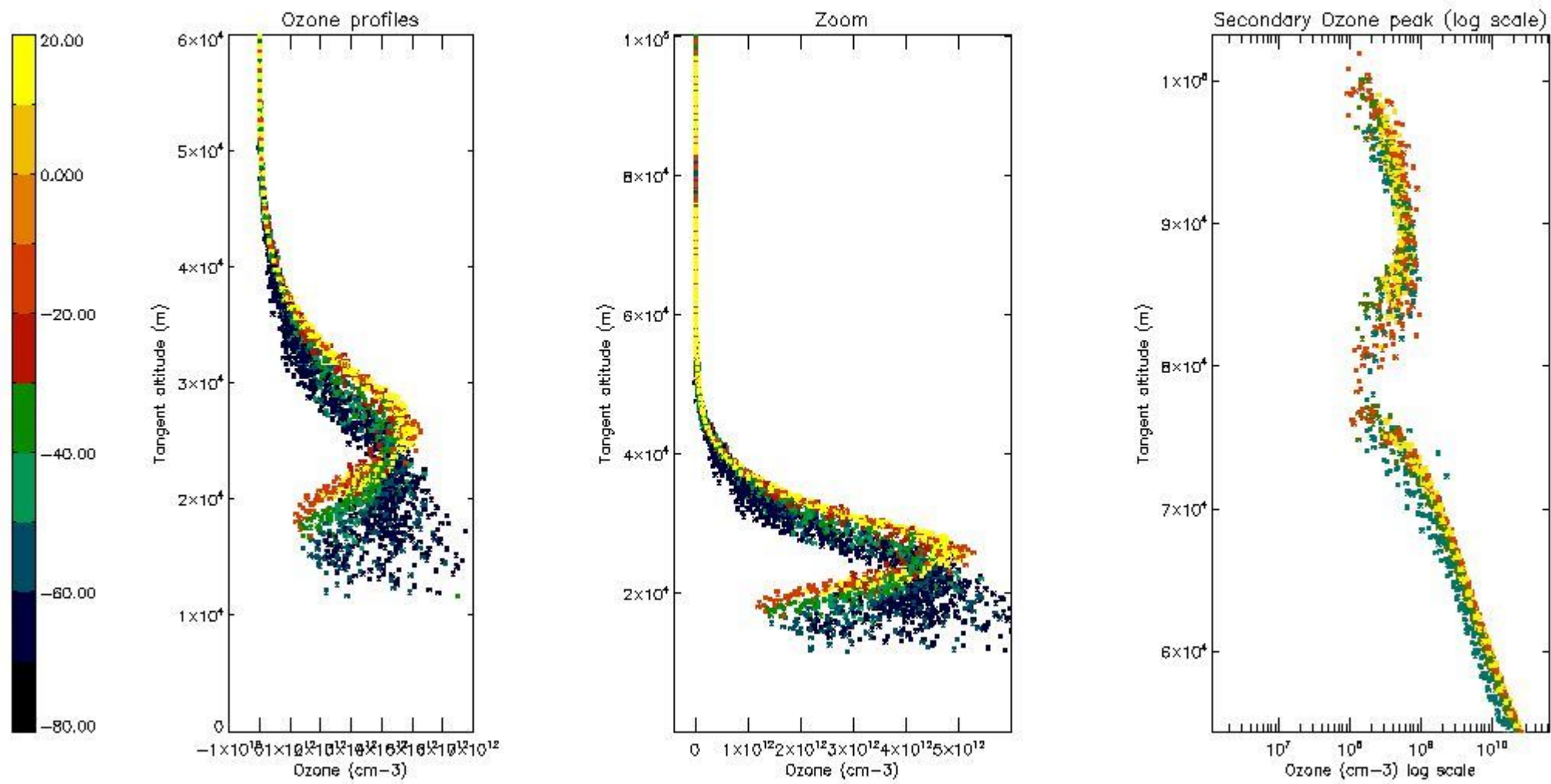
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



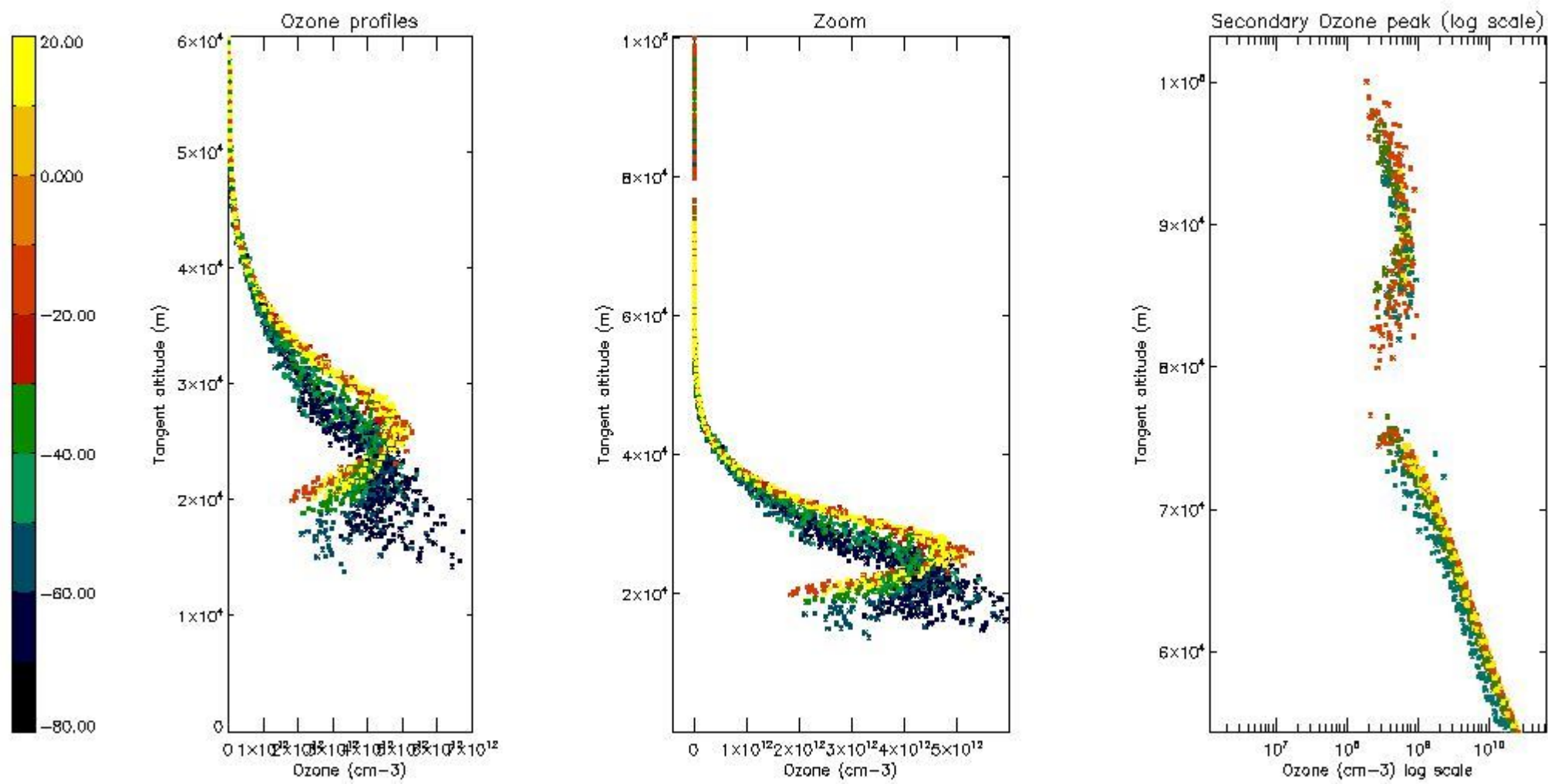
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



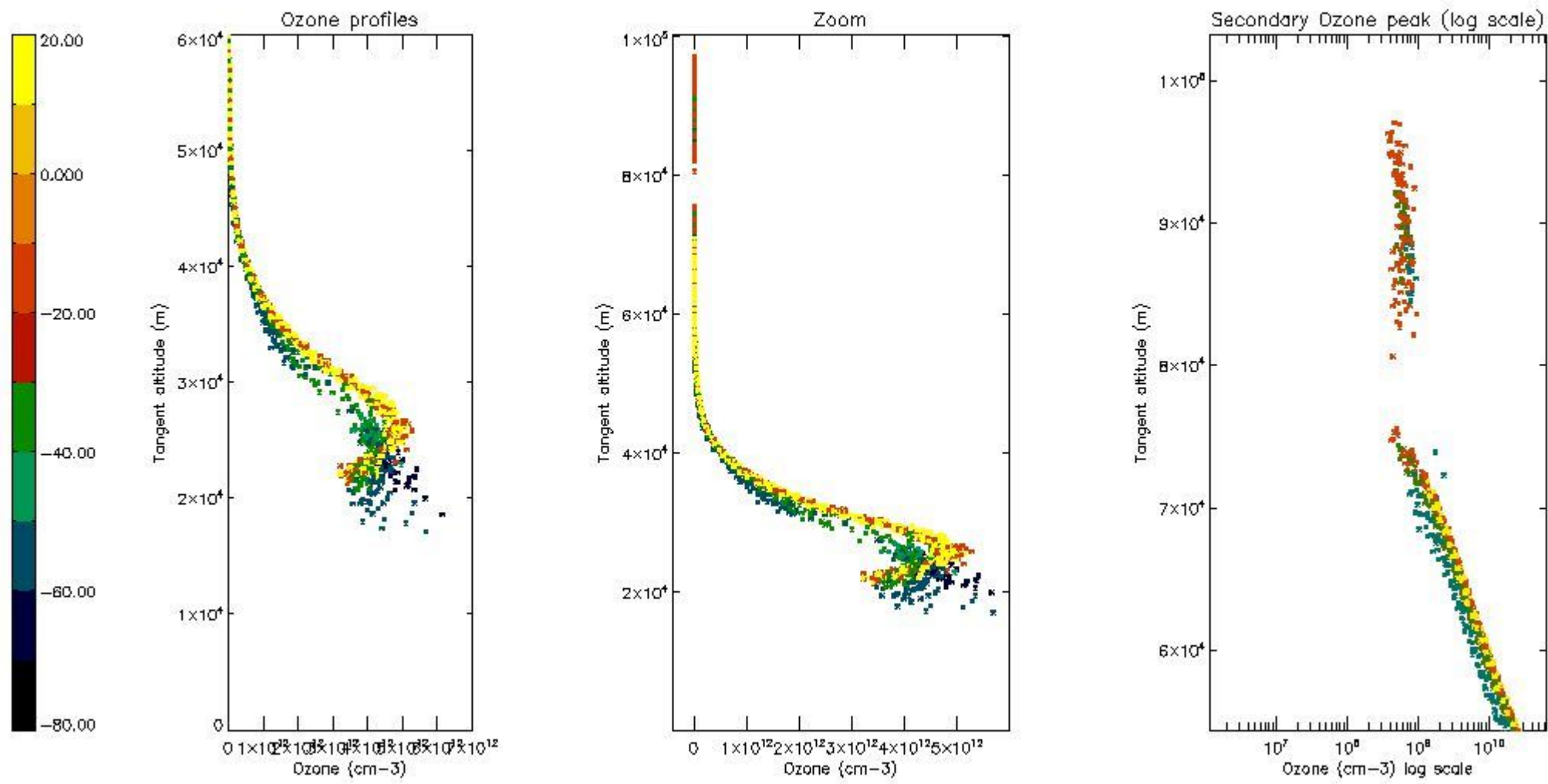
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



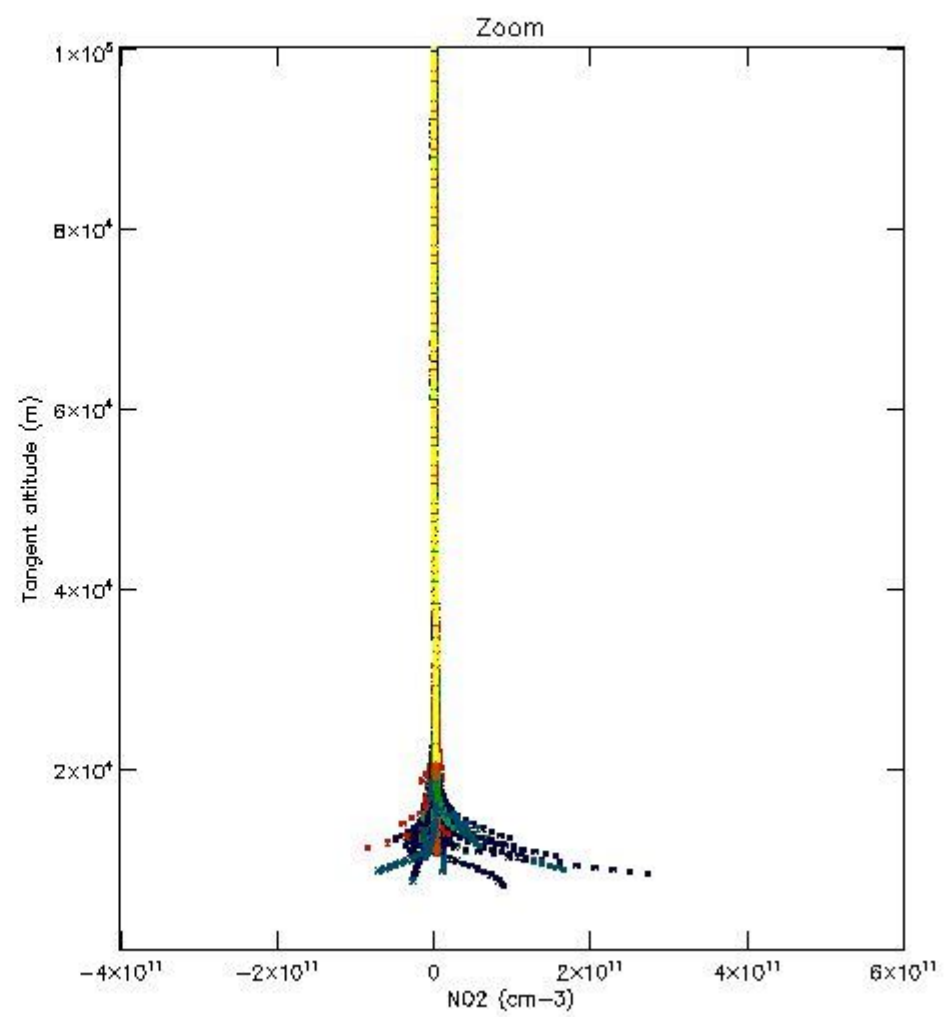
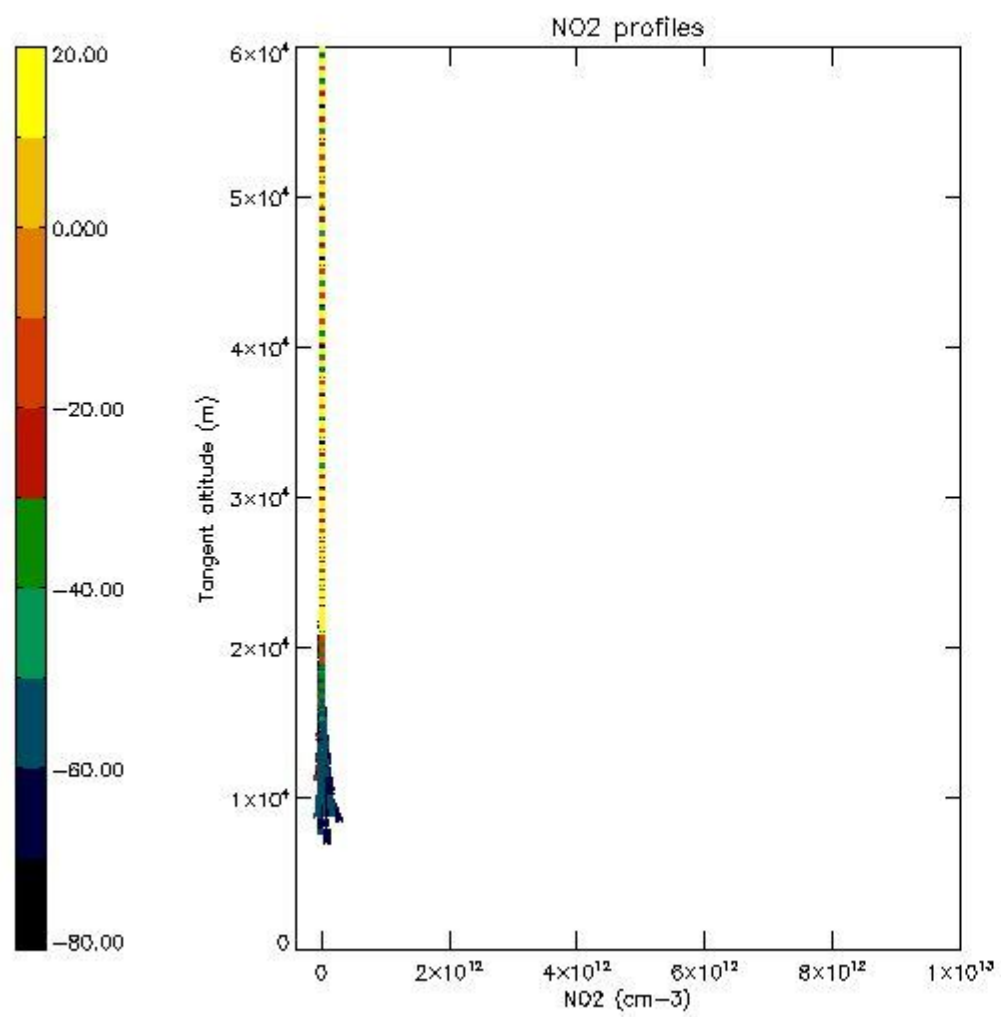
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



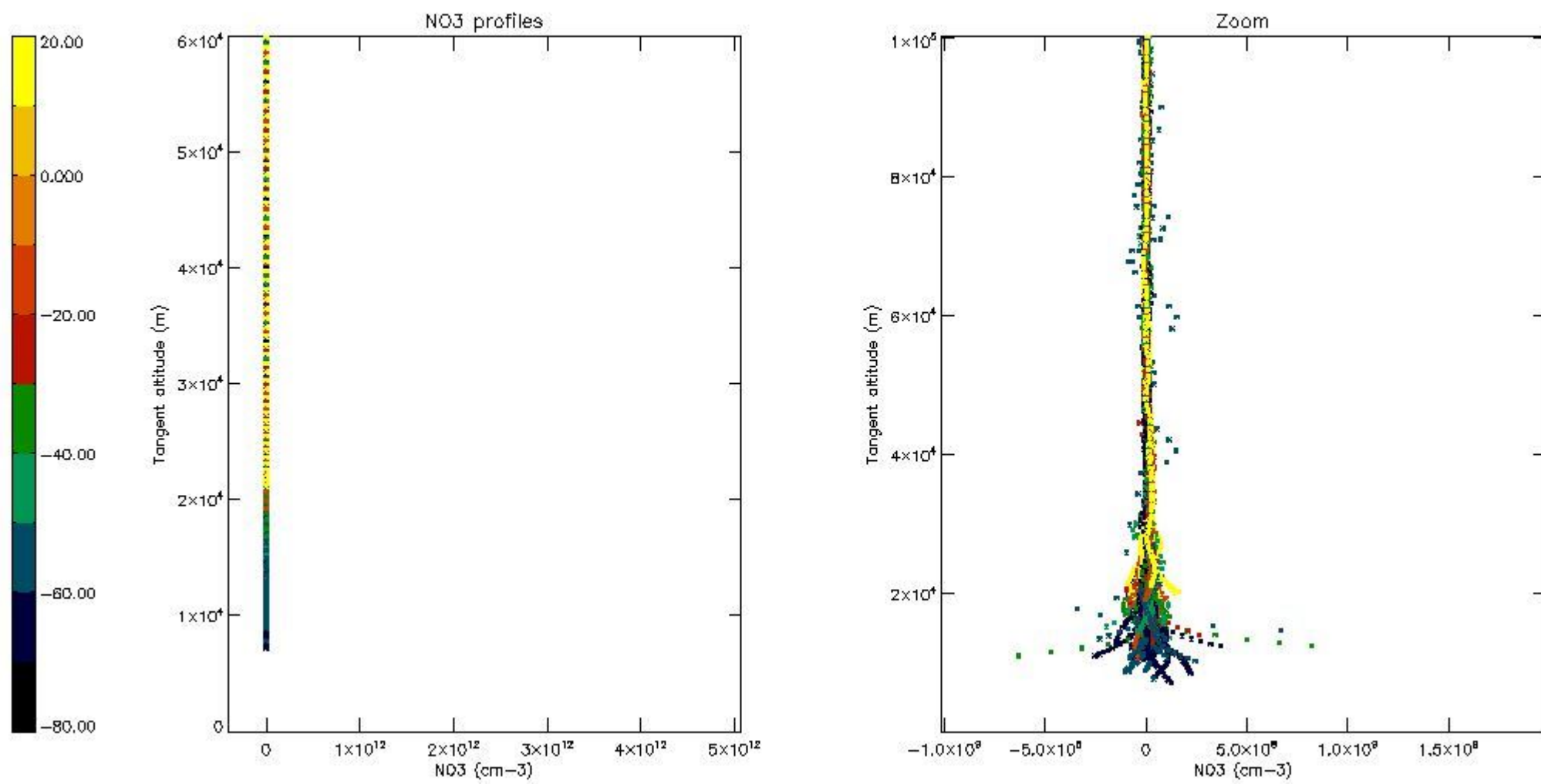
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



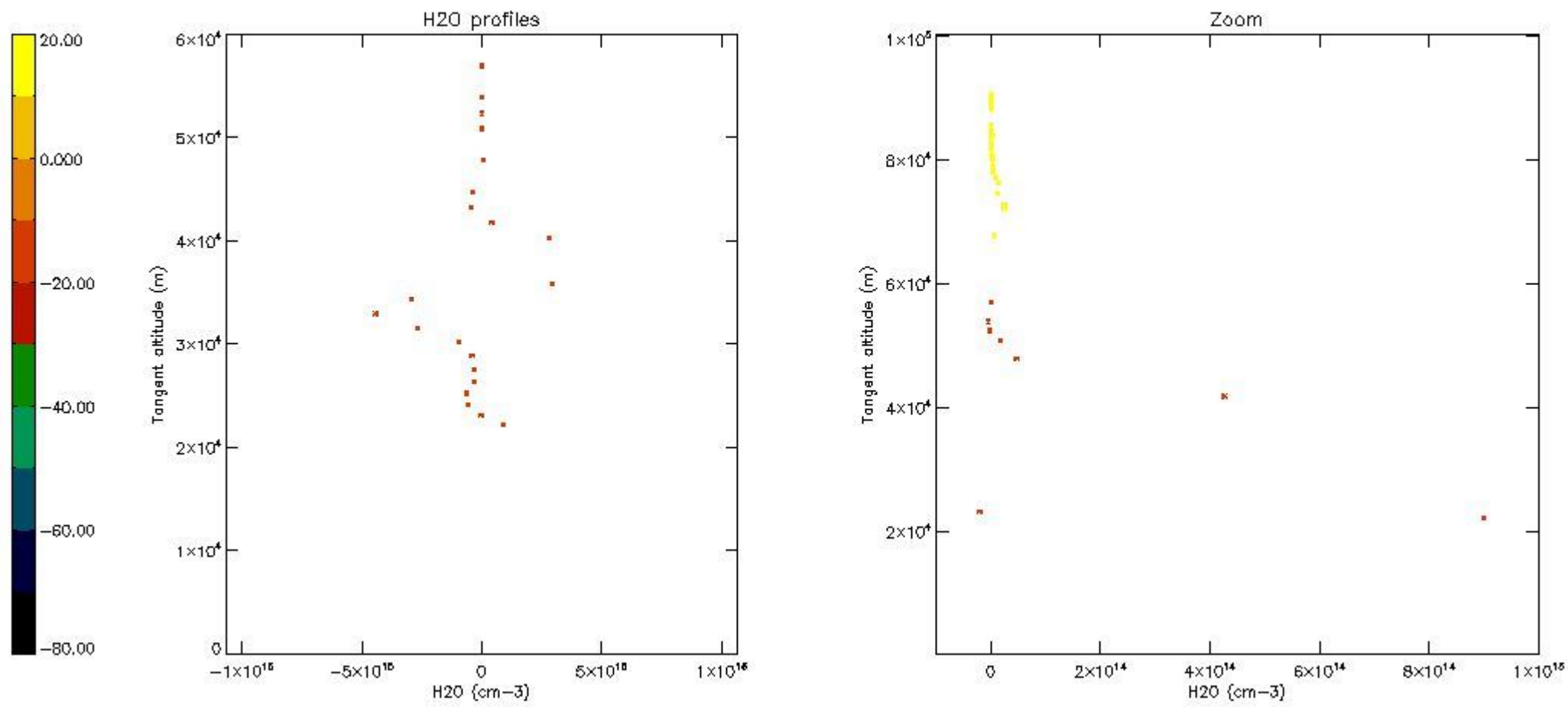
5.7 Plot NO3 profiles for all STD (dark without errors)

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_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-APR-2004 00:03:01
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-APR-2004 00:03:01
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-APR-2004 00:03:01

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[4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

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

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

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

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[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	19APR2013 00:41:48
Data source version	GOMOS/6.01
Start time of products	26-04-2004 (26APR2004 00:00:00)
Stop time of products	27-04-2004 (27APR2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	480
Nb of prods with errors	1

2. Summary of processed GOM_NL__2P products.

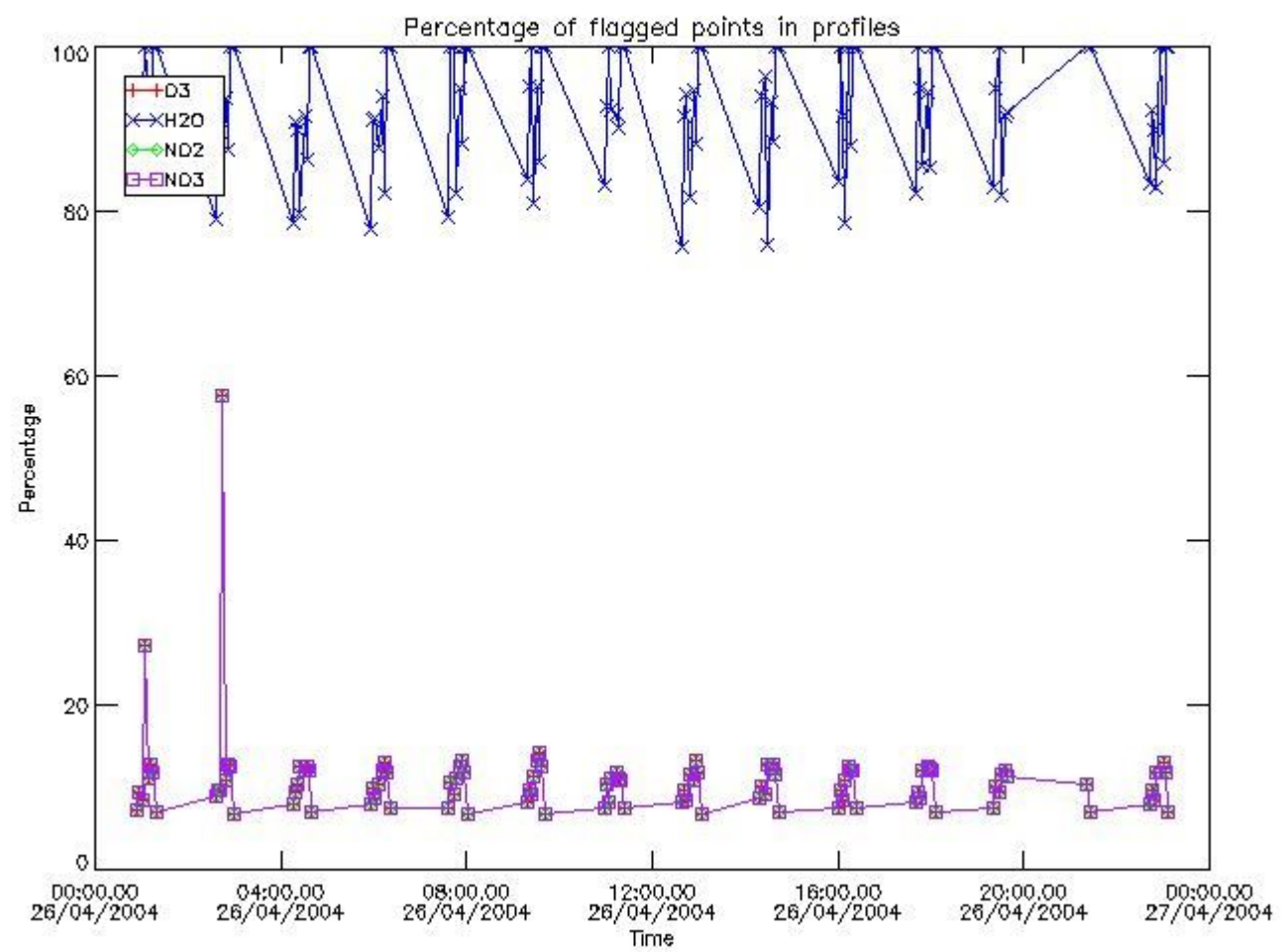
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20040426_000301_000000382026_00188_11264_1915.N1	26-APR-2004 00:03:01	Bright	37.500	121	29Gam Vir	2.7400	7200.0	75	11264	No
2	GOM_NL__2PRFIN20040426_000628_000000382026_00188_11264_1916.N1	26-APR-2004 00:06:28	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	11264	No
3	GOM_NL__2PRFIN20040426_000759_000000362026_00188_11264_1917.N1	26-APR-2004 00:07:59	Bright	36.000	62	94Bet Leo	2.1360	9700.0	72	11264	No
4	GOM_NL__2PRFIN20040426_000941_000000492026_00188_11264_1918.N1	26-APR-2004 00:09:41	Bright	49.000	3	16Alp Boo	-0.050000	4250.0	98	11264	No
5	GOM_NL__2PRFIN20040426_001417_000000382026_00188_11264_1919.N1	26-APR-2004 00:14:17	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	11264	No
6	GOM_NL__2PRFIN20040426_001640_000000382026_00188_11264_1920.N1	26-APR-2004 00:16:40	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	11264	No
7	GOM_NL__2PRFIN20040426_001839_000000372026_00188_11264_1921.N1	26-APR-2004 00:18:39	Bright	36.500	87	64Gam UMa	2.4330	11000.	73	11264	No
8	GOM_NL__2PRFIN20040426_001954_000000372026_00188_11264_1922.N1	26-APR-2004 00:19:54	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	11264	No
9	GOM_NL__2PRFIN20040426_002116_000000392026_00188_11264_1923.N1	26-APR-2004 00:21:16	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	11264	No
10	GOM_NL__2PRFIN20040426_002528_000000382026_00188_11264_1924.N1	26-APR-2004 00:25:28	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	11264	No
11	GOM_NL__2PRFIN20040426_002859_000000372026_00188_11264_1925.N1	26-APR-2004 00:28:59	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	11264	No
12	GOM_NL__2PRFIN20040426_003103_000000642026_00188_11264_1926.N1	26-APR-2004 00:31:03	Bright	63.500	69	33Gam Dra	2.2310	3800.0	127	11264	No
13	GOM_NL__2PRFIN20040426_003541_000000442026_00188_11264_1927.N1	26-APR-2004 00:35:41	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	11264	No
14	GOM_NL__2PRFIN20040426_003735_000000422026_00188_11264_1928.N1	26-APR-2004 00:37:35	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	11264	No
15	GOM_NL__2PRFIN20040426_003938_000001532026_00188_11264_1929.N1	26-APR-2004 00:39:38	Bright	152.50	5	3Alp Lyr	0.033000	11000.	305	11264	No
16	GOM_NL__2PRFIN20040426_004602_000000732026_00188_11264_1930.N1	26-APR-2004 00:46:02	Twi_and_stray	72.500	92	53Eps Cyg	2.5000	4500.0	145	11264	No
17	GOM_NL__2PRFIN20040426_005048_000000452026_00188_11264_1931.N1	26-APR-2004 00:50:48	Twi_and_stray	45.000	90	54Alp Peg	2.4870	11000.	90	11264	No
18	GOM_NL__2PRFIN20040426_005436_000000702026_00188_11264_1932.N1	26-APR-2004 00:54:36	Dark	70.000	61	8Eps Peg	2.1000	3900.0	140	11264	No
19	GOM_NL__2PRFIN20040426_005704_000000542026_00188_11264_1933.N1	26-APR-2004 00:57:04	Dark	54.000	162	34Alp Aqr	2.9440	5350.0	108	11264	No
20	GOM_NL__2PRFIN20040426_010021_000000612026_00188_11264_1934.N1	26-APR-2004 01:00:21	Dark	61.000	154	22Bet Aqr	2.8990	5700.0	122	11264	No
21	GOM_NL__2PRFIN20040426_010327_000000432026_00188_11264_1935.N1	26-APR-2004 01:03:27	Dark	43.000	18	24Alp PsA	1.1660	9700.0	86	11264	No
22	GOM_NL__2PRFIN20040426_010907_000000462026_00188_11264_1936.N1	26-APR-2004 01:09:07	Dark	46.000	31	Alp Gru	1.7340	15200.	92	11264	No
23	GOM_NL__2PRFIN20040426_011157_000000442026_00188_11264_1937.N1	26-APR-2004 01:11:57	Dark	43.500	148	Alp Tuc	2.8780	4100.0	87	11264	No
24	GOM_NL__2PRFIN20040426_011429_000000442026_00189_11265_1904.N1	26-APR-2004 01:14:29	Dark	43.500	45	Alp Pav	1.9400	26000.	87	11265	No
25	GOM_NL__2PRFIN20040426_011910_000000742026_00189_11265_1905.N1	26-APR-2004 01:19:10	Dark	73.500	103	38Zet Sgr	2.6000	9700.0	147	11265	No
26	GOM_NL__2PRFIN20040426_012204_000000462026_00189_11265_1906.N1	26-APR-2004 01:22:04	Straylight	46.000	141	Bet Ara	2.8400	4600.0	92	11265	No
27	GOM_NL__2PRFIN20040426_012337_000000682026_00189_11265_1907.N1	26-APR-2004 01:23:37	Straylight	68.000	40	The Sco	1.8590	7100.0	136	11265	No
28	GOM_NL__2PRFIN20040426_012544_000000482026_00189_11265_1908.N1	26-APR-2004 01:25:44	Straylight	48.000	4	Alp1Cen	-0.010000	5800.0	96	11265	No
29	GOM_NL__2PRFIN20040426_012728_000000422026_00189_11265_1909.N1	26-APR-2004 01:27:28	Straylight	42.000	20	Bet Cru	1.2530	30000.	84	11265	No
30	GOM_NL__2PRFIN20040426_012905_000000432026_00189_11265_1910.N1	26-APR-2004 01:29:05	Straylight	42.500	78	Alp Lup	2.3040	28000.	85	11265	No
31	GOM_NL__2PRFIN20040426_013038_000000452026_00189_11265_1911.N1	26-APR-2004 01:30:38	Straylight	45.000	81	Eta Cen	2.3560	28000.	90	11265	No
32	GOM_NL__2PRFIN20040426_013239_000000852026_00189_11265_1912.N1	26-APR-2004 01:32:39	Twi_and_stray	85.000	16	21Alp Sco	1.0200	3000.0	170	11265	No
33	GOM_NL__2PRFIN20040426_013508_000000712026_00189_11265_1913.N1	26-APR-2004 01:35:08	Twi_and_stray	70.500	80	7Del Sco	2.3160	30000.	141	11265	No
34	GOM_NL__2PRFIN20040426_013711_000000432026_00189_11265_1914.N1	26-APR-2004 01:37:11	Bright	43.000	169	46Gam Hya	2.9910	4700.0	86	11265	No
35	GOM_NL__2PRFIN20040426_013924_000000392026_00189_11265_1915.N1	26-APR-2004 01:39:24	Bright	38.500	100	4Gam Crv	2.5800	13100.	77	11265	No
36	GOM_NL__2PRFIN20040426_014104_000000552026_00189_11265_1916.N1	26-APR-2004 01:41:04	Bright	54.500	104	27Bet Lib	2.6140	13100.	109	11265	No
37	GOM_NL__2PRFIN20040426_014337_000000382026_00189_11265_1917.N1	26-APR-2004 01:43:37	Bright	38.000	121	29Gam Vir	2.7400	7200.0	76	11265	No
38	GOM_NL__2PRFIN20040426_014703_000000382026_00189_11265_1918.N1	26-APR-2004 01:47:03	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	11265	No
39	GOM_NL__2PRFIN20040426_014835_000000372026_00189_11265_1919.N1	26-APR-2004 01:48:35	Bright	37.000	62	94Bet Leo	2.1360	9700.0	74	11265	No
40	GOM_NL__2PRFIN20040426_015017_000000452026_00189_11265_1920.N1	26-APR-2004 01:50:17	Bright	44.500	3	16Alp Boo	-0.050000	4250.0	89	11265	No
41	GOM_NL__2PRFIN20040426_015453_000000372026_00189_11265_1921.N1	26-APR-2004 01:54:53	Bright	37.000	152	12Alp2CVn	2.8900	11000.	74	11265	No
42	GOM_NL__2PRFIN20040426_015716_000000372026_00189_11265_1922.N1	26-APR-2004 01:57:16	Bright	36.500	174	52Psi UMa	3.0040	4400.0	73	11265	No

456	GOM_NL__2PRFIN20040426_230224_000000432026_00202_11278_1927.N1	26-APR-2004 23:02:24	Dark	43.000	45	Alp Pav	1.9400	26000.	86	11278	No
457	GOM_NL__2PRFIN20040426_230721_000000732026_00202_11278_1928.N1	26-APR-2004 23:07:21	Dark	73.000	103	38Zet Sgr	2.6000	9700.0	146	11278	No
458	GOM_NL__2PRFIN20040426_230959_000000532026_00202_11278_1929.N1	26-APR-2004 23:09:59	Straylight	53.000	141	Bet Ara	2.8400	4600.0	106	11278	No
459	GOM_NL__2PRFIN20040426_231136_000000662026_00202_11278_1930.N1	26-APR-2004 23:11:36	Straylight	65.500	40	The Sco	1.8590	7100.0	131	11278	No
460	GOM_NL__2PRFIN20040426_231334_000000512026_00202_11278_1931.N1	26-APR-2004 23:13:34	Straylight	51.000	4	Alp1Cen	-0.010000	5800.0	102	11278	No
461	GOM_NL__2PRFIN20040426_231517_000000442026_00202_11278_1932.N1	26-APR-2004 23:15:17	Straylight	44.000	20	Bet Cru	1.2530	30000.	88	11278	No
462	GOM_NL__2PRFIN20040426_231657_000000442026_00202_11278_1933.N1	26-APR-2004 23:16:57	Straylight	43.500	78	Alp Lup	2.3040	28000.	87	11278	No
463	GOM_NL__2PRFIN20040426_231830_000000442026_00202_11278_1934.N1	26-APR-2004 23:18:30	Straylight	43.500	81	Eta Cen	2.3560	28000.	87	11278	No
464	GOM_NL__2PRFIN20040426_232034_000000872026_00202_11278_1935.N1	26-APR-2004 23:20:34	Twl_and_stray	87.000	16	21Alp Sco	1.0200	3000.0	174	11278	No
465	GOM_NL__2PRFIN20040426_232300_000000672026_00202_11278_1936.N1	26-APR-2004 23:23:00	Twl_and_stray	67.000	80	7Del Sco	2.3160	30000.	134	11278	No
466	GOM_NL__2PRFIN20040426_232458_000000432026_00202_11278_1937.N1	26-APR-2004 23:24:58	Bright	43.000	169	46Gam Hya	2.9910	4700.0	86	11278	No
467	GOM_NL__2PRFIN20040426_232714_000000372026_00202_11278_1938.N1	26-APR-2004 23:27:14	Bright	36.500	100	4Gam Crv	2.5800	13100.	73	11278	No
468	GOM_NL__2PRFIN20040426_232849_000000542026_00202_11278_1939.N1	26-APR-2004 23:28:49	Bright	54.000	104	27Bet Lib	2.6140	13100.	108	11278	No
469	GOM_NL__2PRFIN20040426_233125_000000392026_00202_11278_1940.N1	26-APR-2004 23:31:25	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	11278	No
470	GOM_NL__2PRFIN20040426_233449_000000382026_00202_11278_1941.N1	26-APR-2004 23:34:49	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	11278	No
471	GOM_NL__2PRFIN20040426_233626_000000362026_00202_11278_1942.N1	26-APR-2004 23:36:26	Bright	36.000	62	94Bet Leo	2.1360	9700.0	72	11278	No
472	GOM_NL__2PRFIN20040426_233758_000000462026_00202_11278_1943.N1	26-APR-2004 23:37:58	Bright	46.000	3	16Alp Boo	-0.050000	4250.0	92	11278	No
473	GOM_NL__2PRFIN20040426_234239_000000382026_00202_11278_1944.N1	26-APR-2004 23:42:39	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	11278	No
474	GOM_NL__2PRFIN20040426_234420_000000422026_00202_11278_1945.N1	26-APR-2004 23:44:20	Bright	42.000	180	27Gam Boo	3.0400	8000.0	84	11278	No
475	GOM_NL__2PRFIN20040426_234621_000000392026_00202_11278_1946.N1	26-APR-2004 23:46:21	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	11278	No
476	GOM_NL__2PRFIN20040426_234819_000000392026_00202_11278_1947.N1	26-APR-2004 23:48:19	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	11278	No
477	GOM_NL__2PRFIN20040426_234942_000000392026_00202_11278_1948.N1	26-APR-2004 23:49:42	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	11278	No
478	GOM_NL__2PRFIN20040426_235347_000000412026_00202_11278_1949.N1	26-APR-2004 23:53:47	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	11278	No
479	GOM_NL__2PRFIN20040426_235721_000000362026_00202_11278_1950.N1	26-APR-2004 23:57:21	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	11278	No
480	GOM_NL__2PRFIN20040426_235910_000000672026_00202_11278_1951.N1	26-APR-2004 23:59:10	Bright	67.000	69	33Gam Dra	2.2310	3800.0	134	11278	No

3. Quality information per product

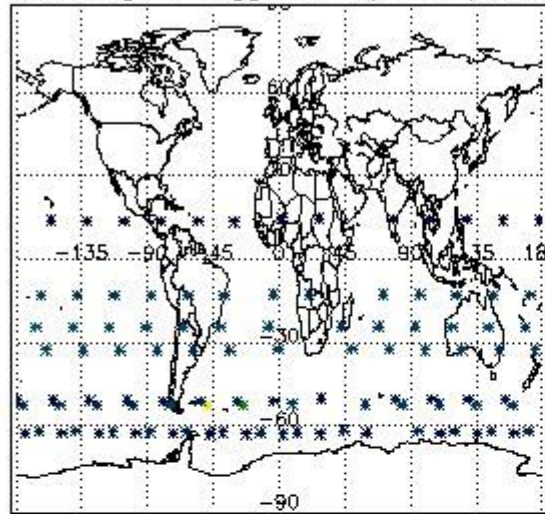
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

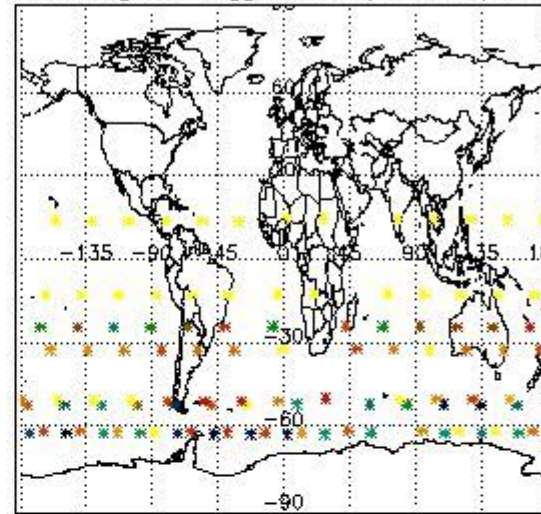


3.2 Plot quality information per product (world map)

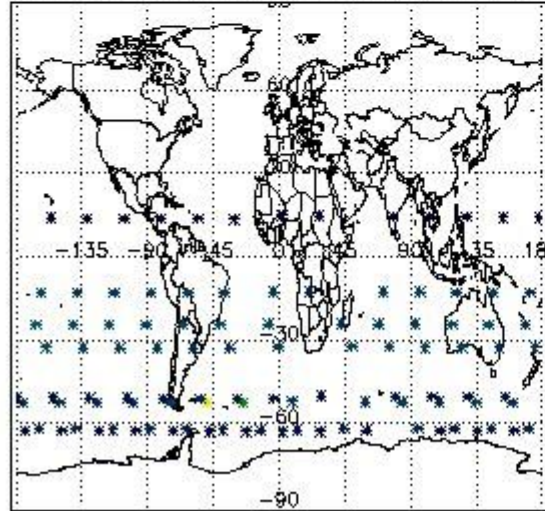
Percentage of flagged data per O3 profile



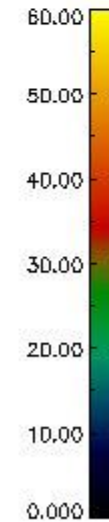
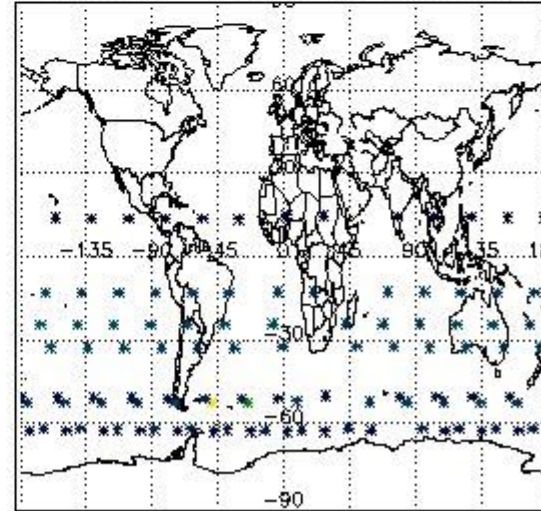
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

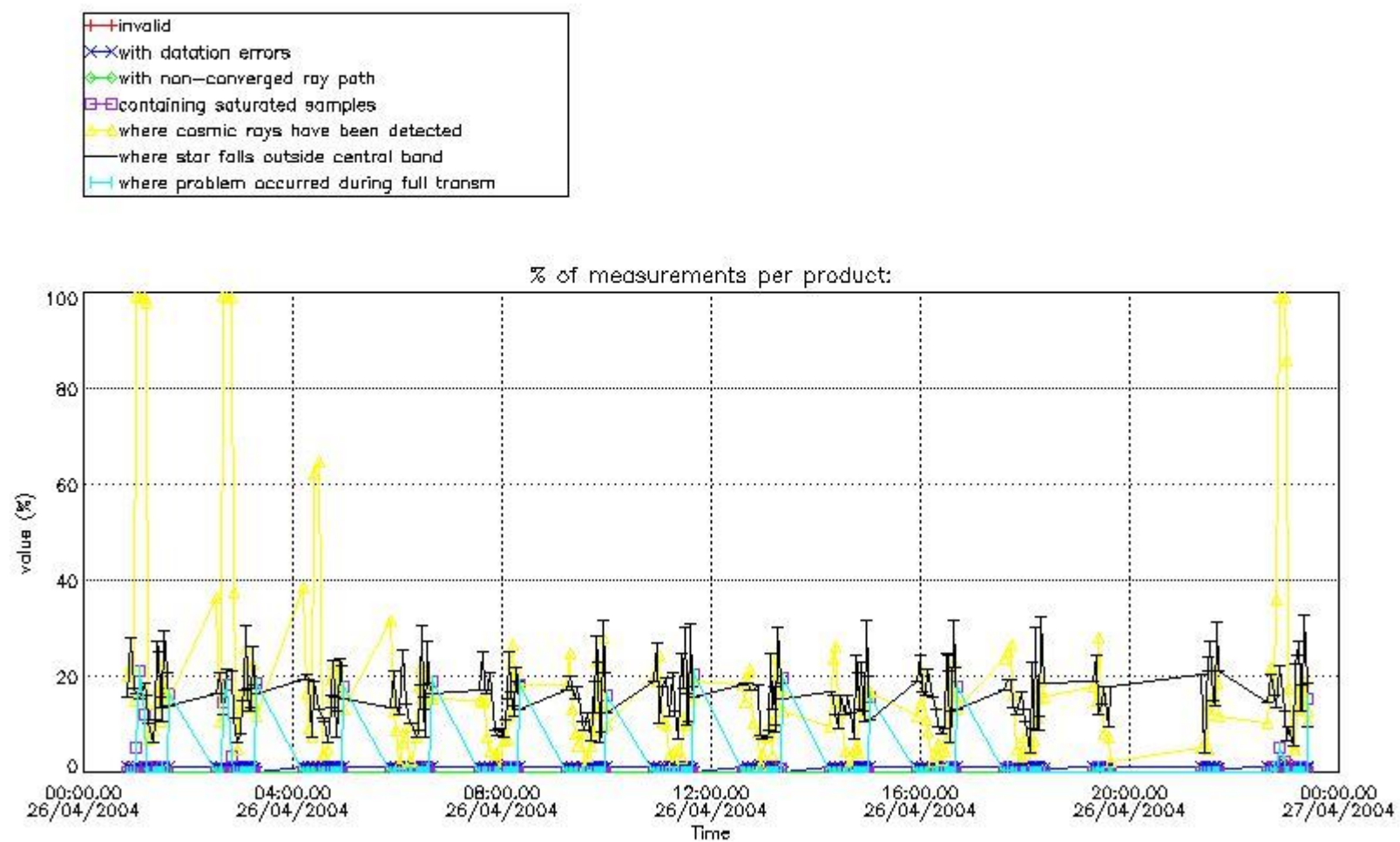


4. Level 1 quality information per product

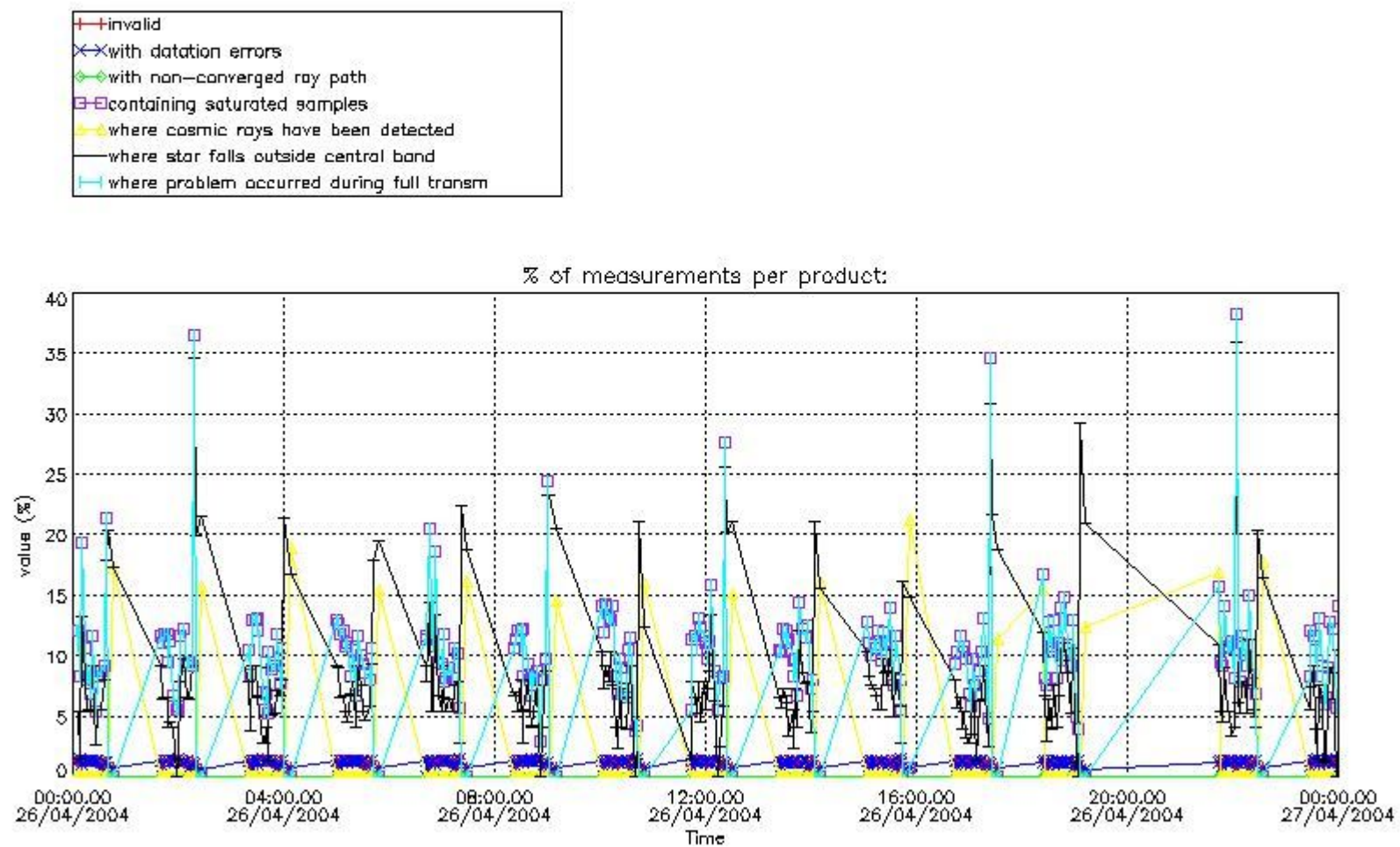
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



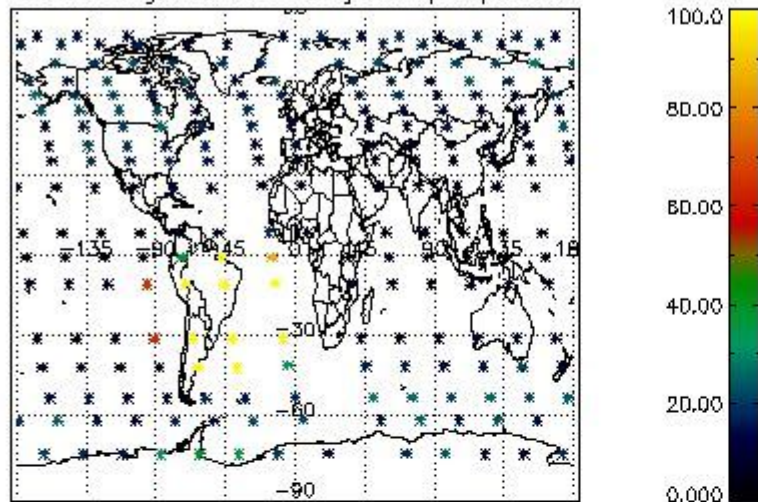
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



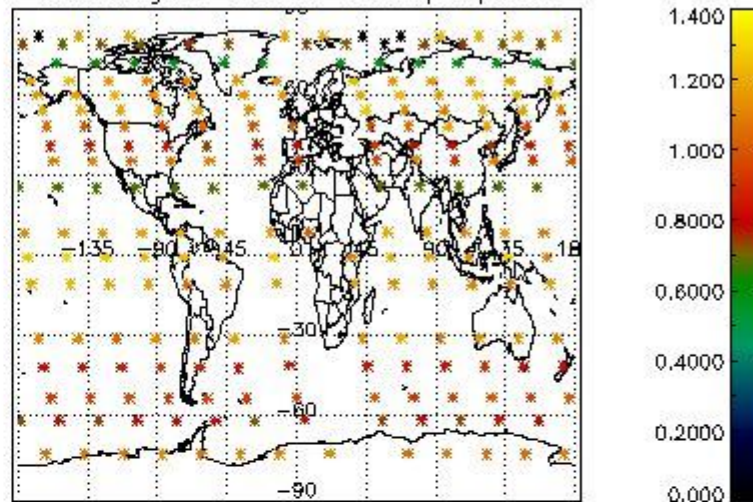
4.2 Plot quality information per product coming from level 1b processing (world map)

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

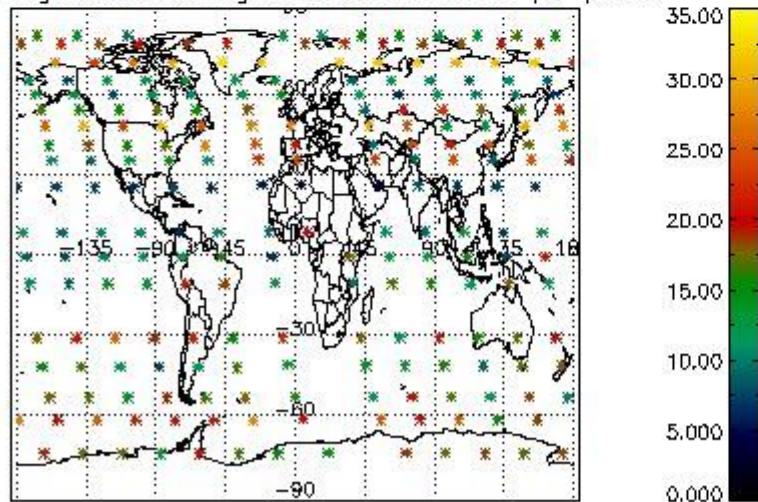
Percentage of cosmic ray hits per profile



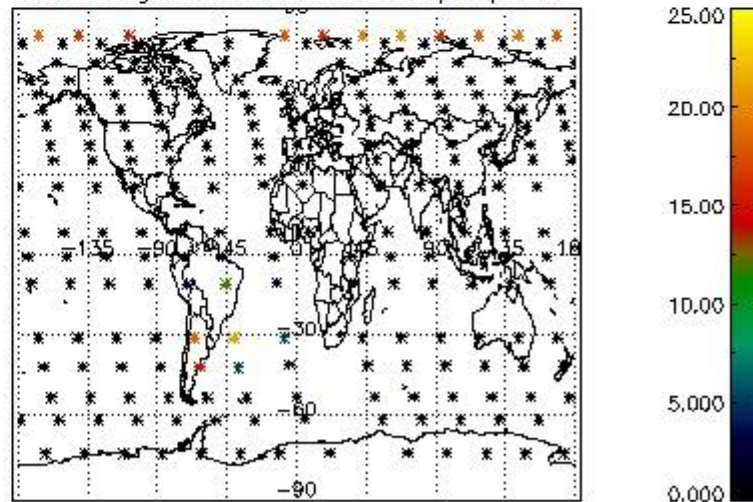
Percentage of datation errors per profile



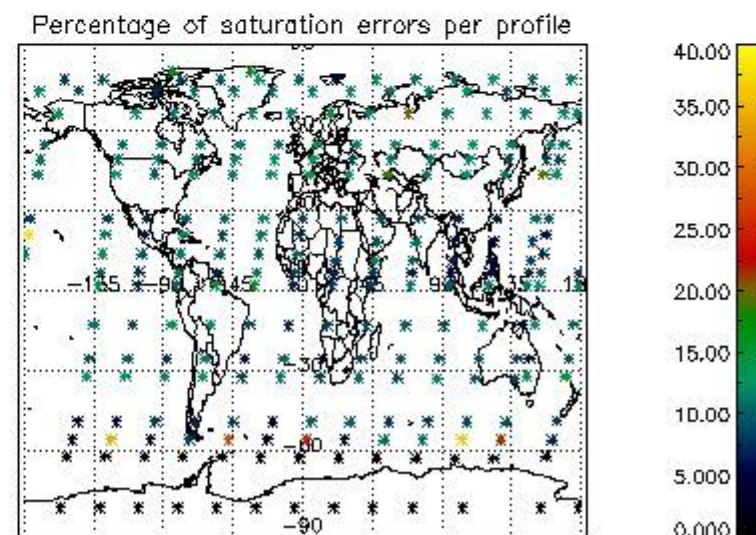
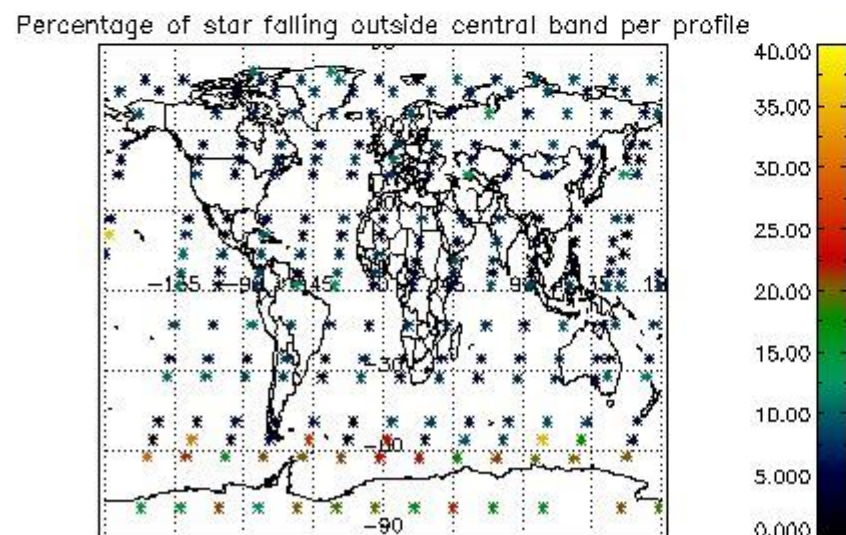
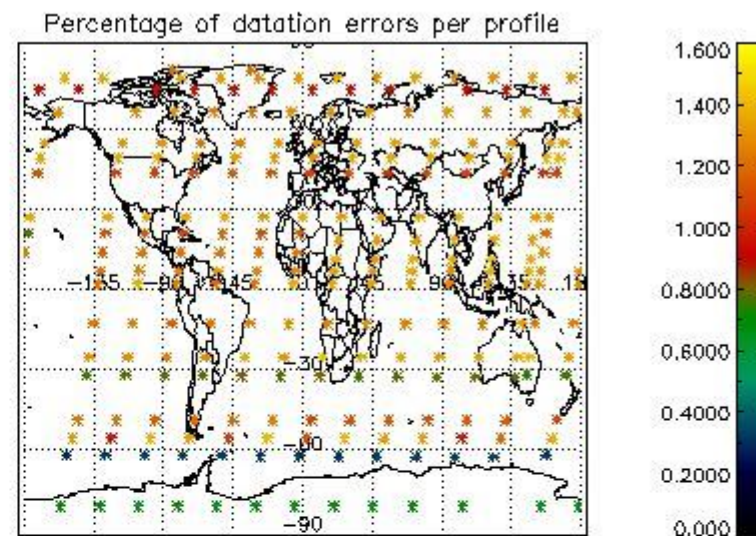
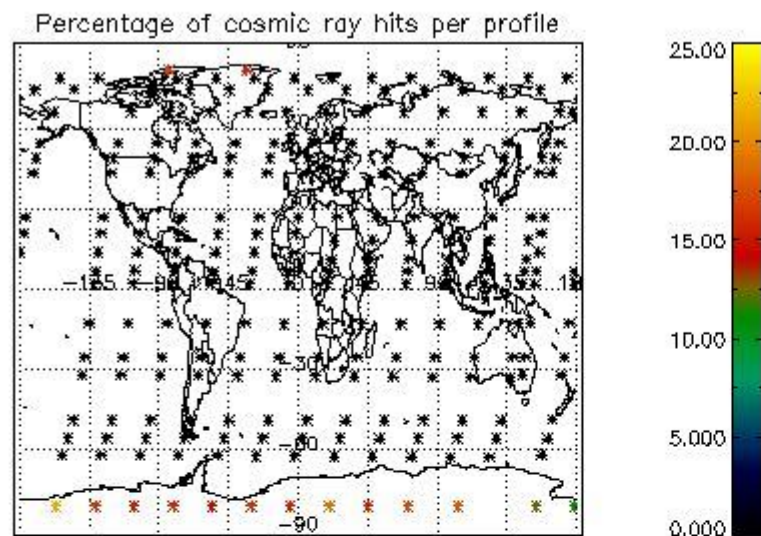
Percentage of star falling outside central band per profile



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

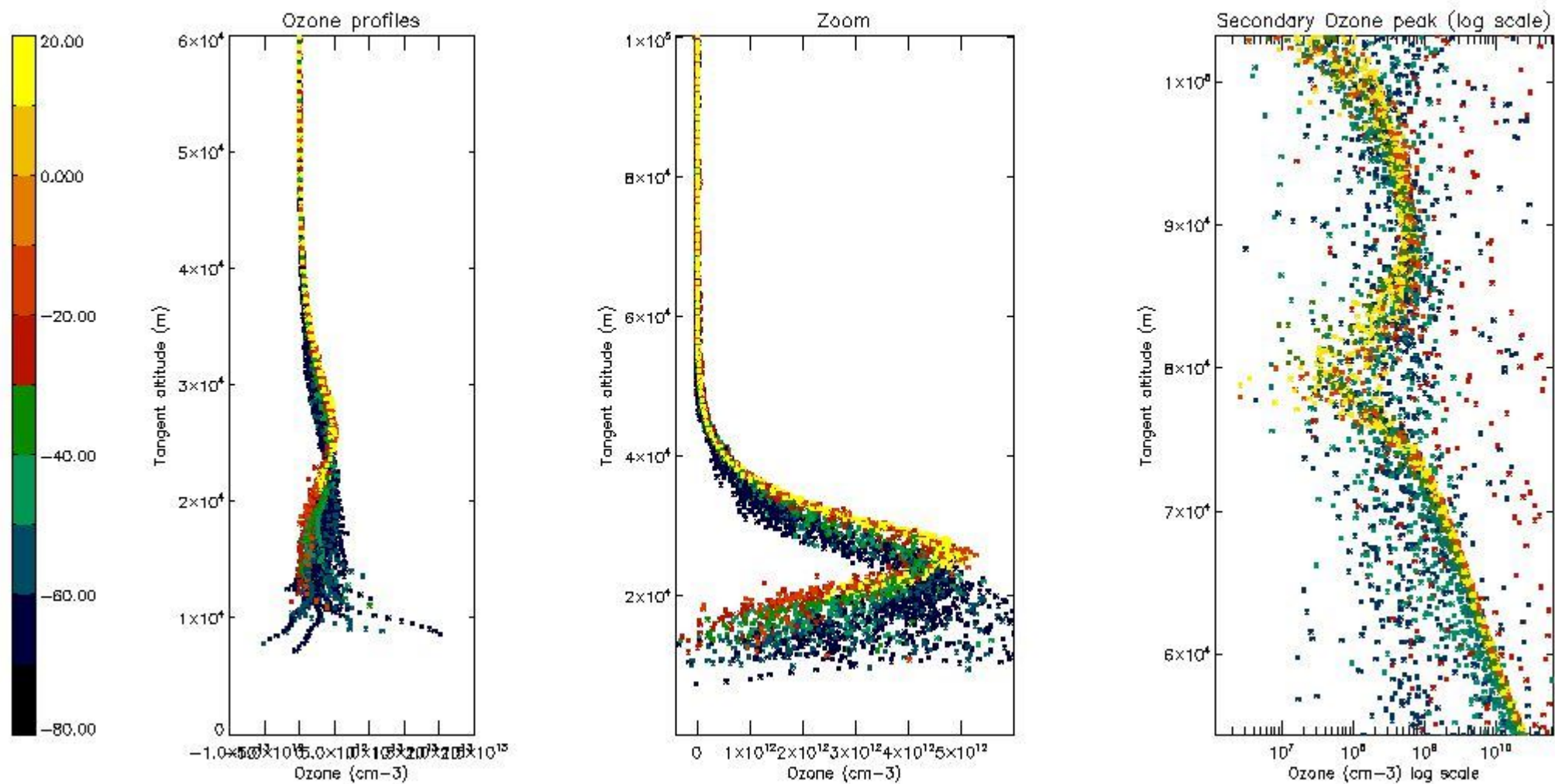
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	23
STD < 20	11

STD < 10	8
STD < 5	5

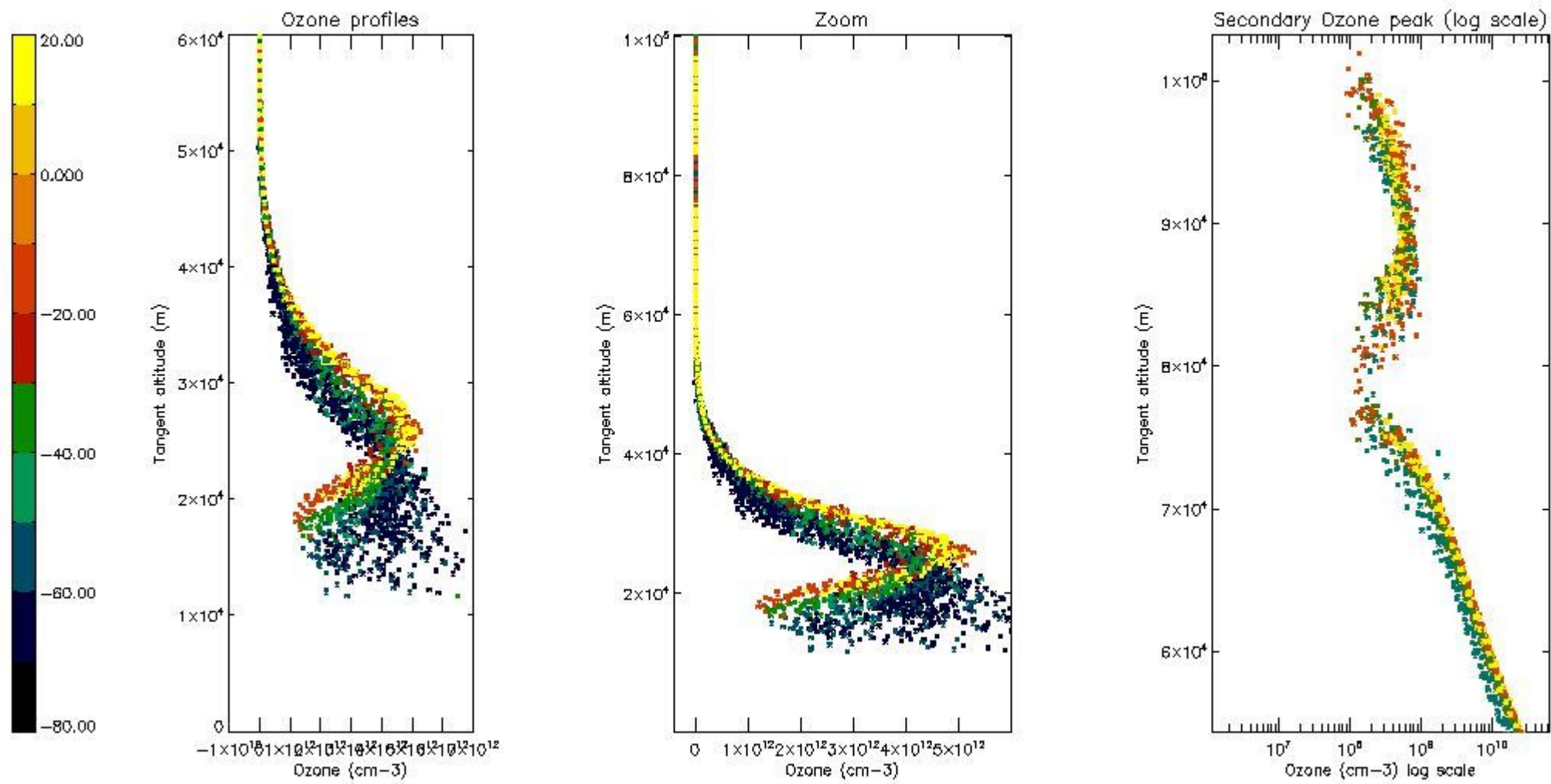
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



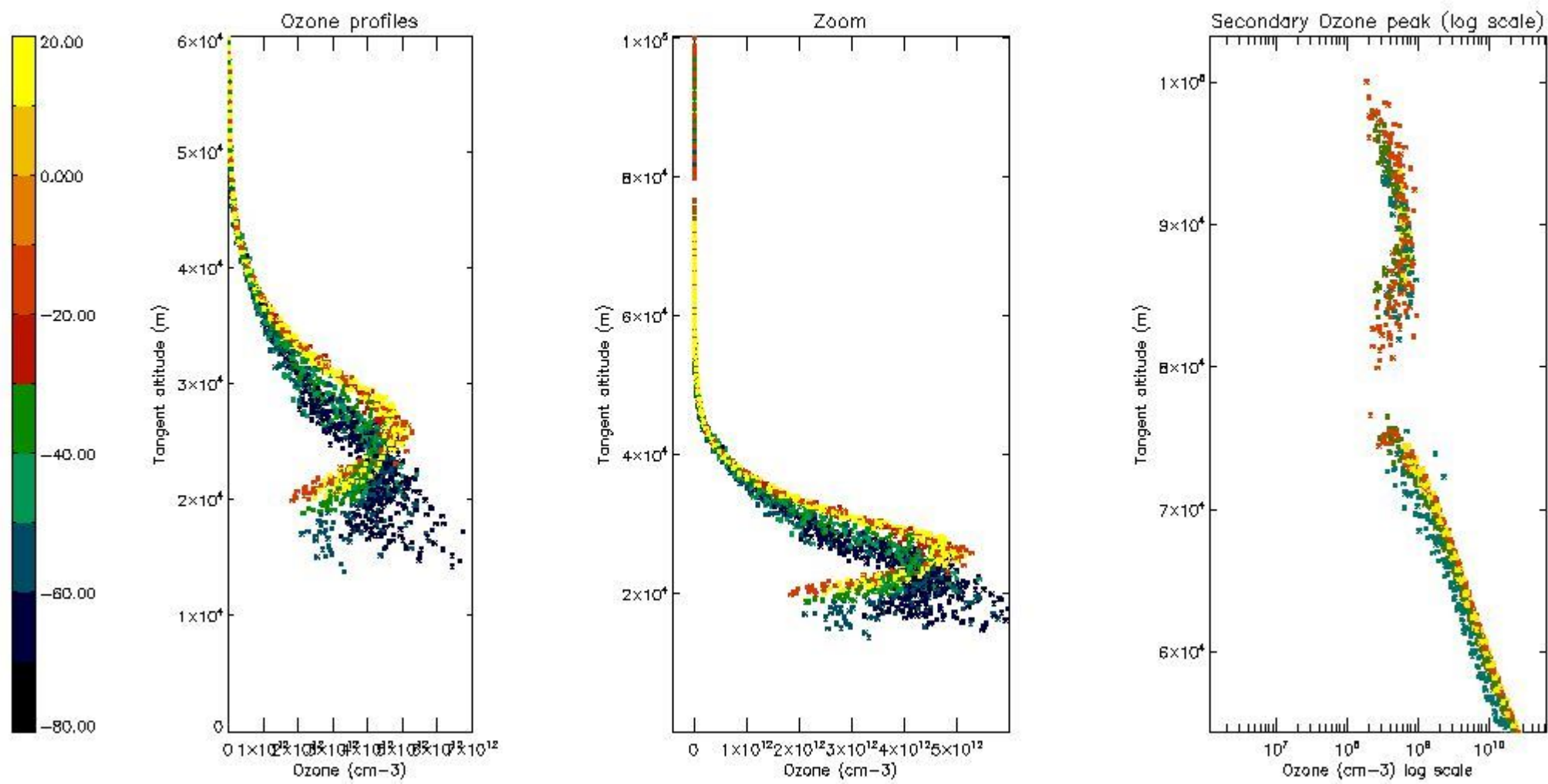
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



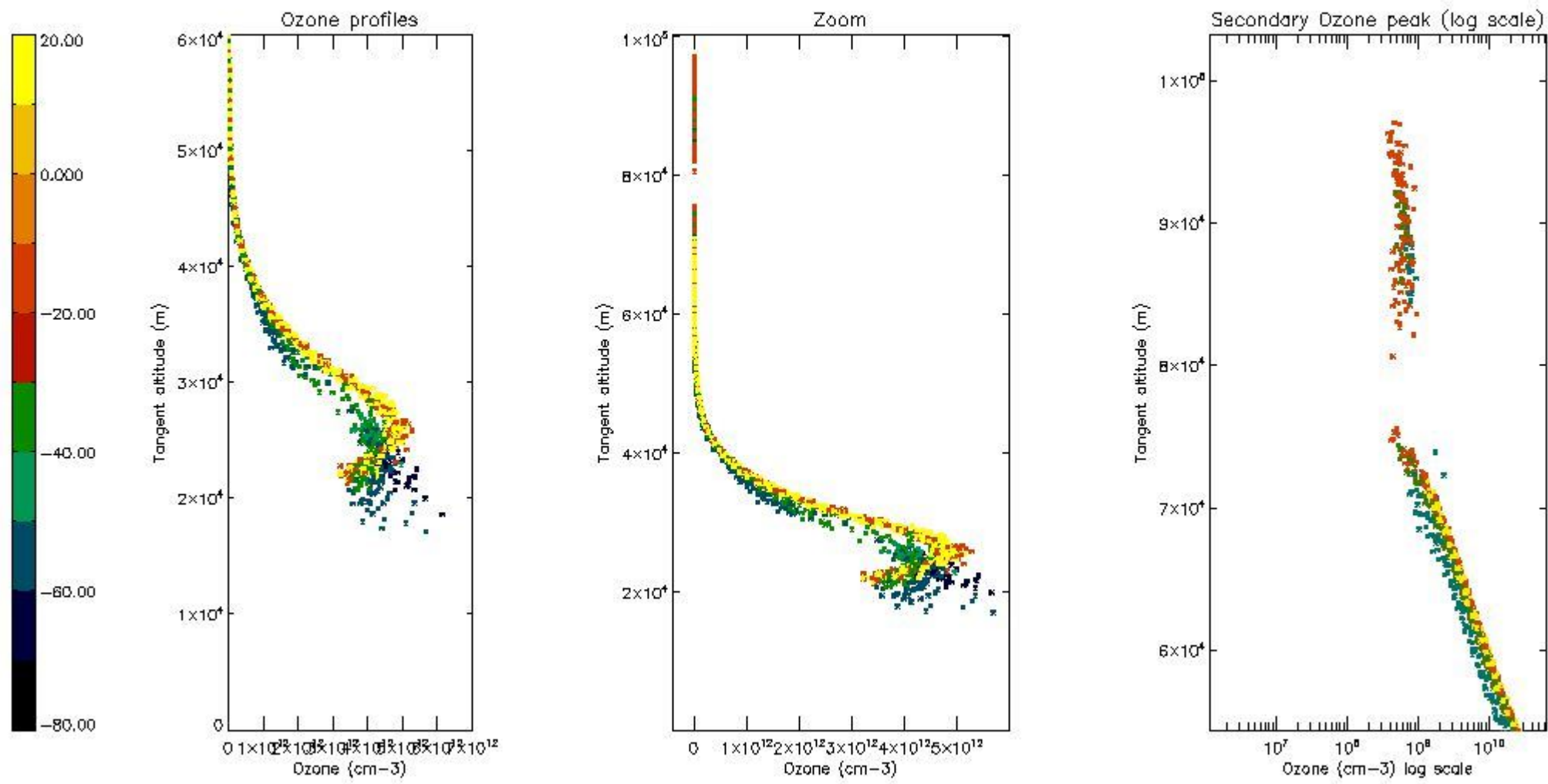
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



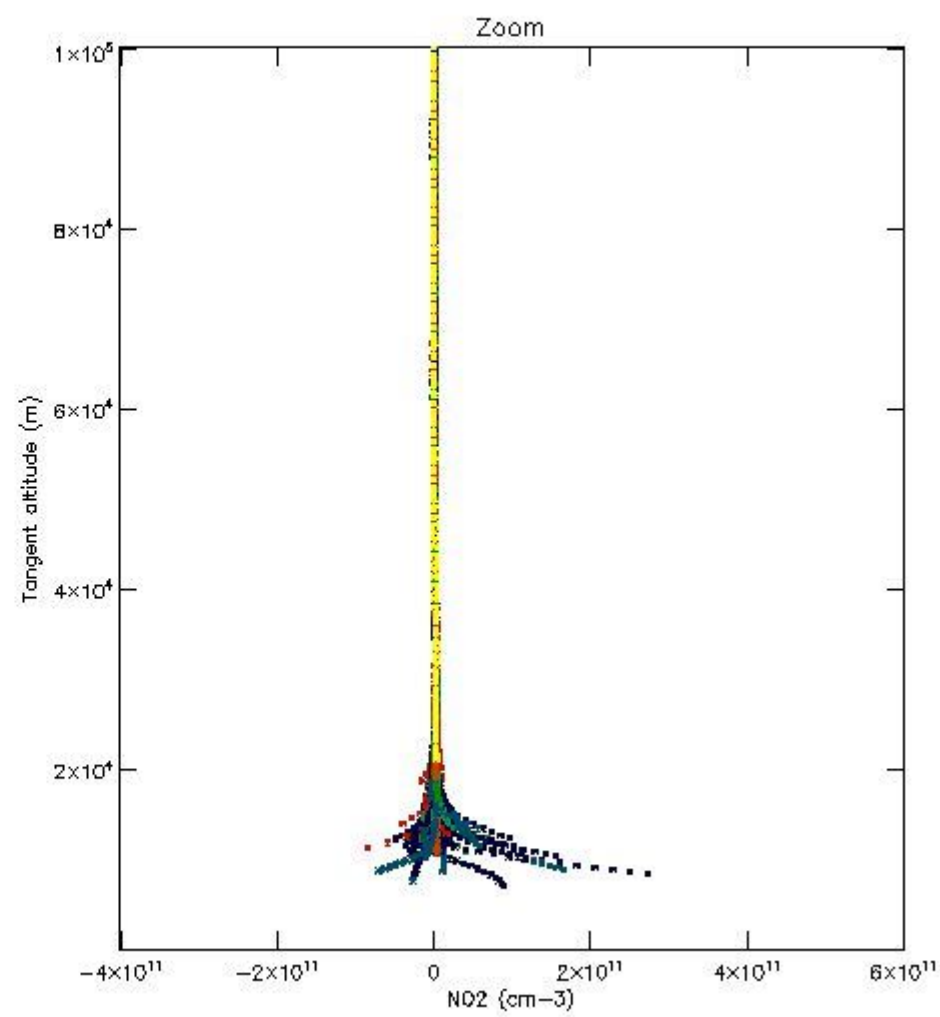
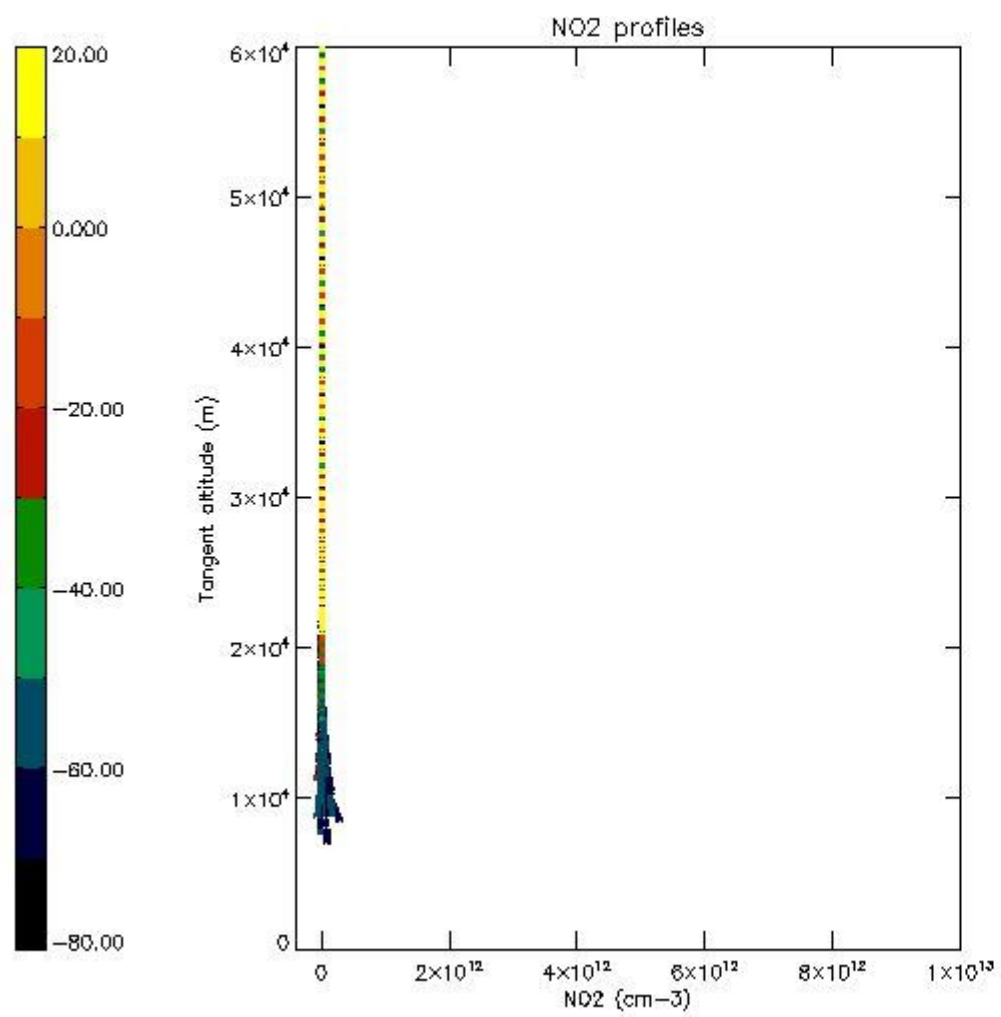
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



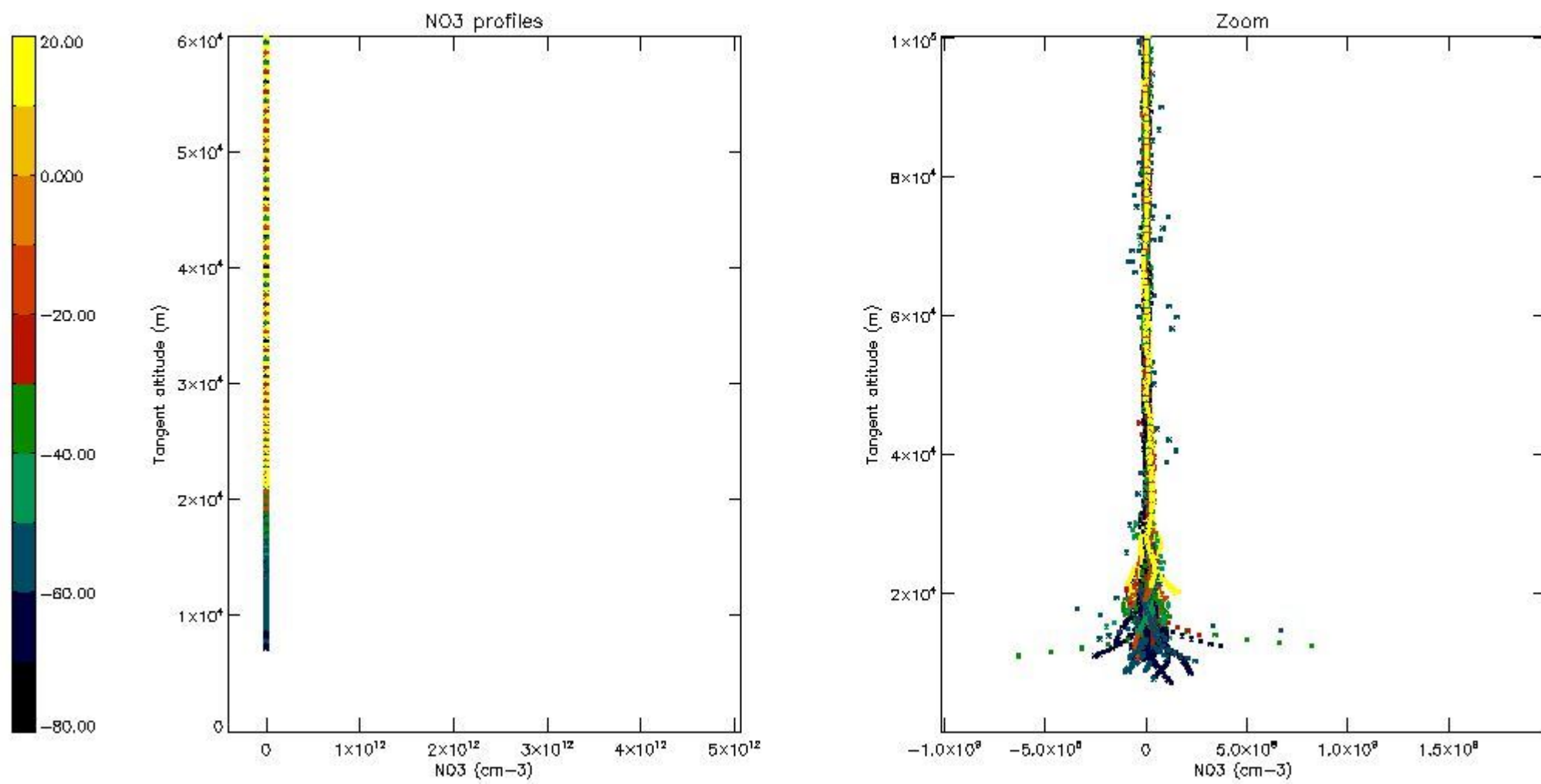
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



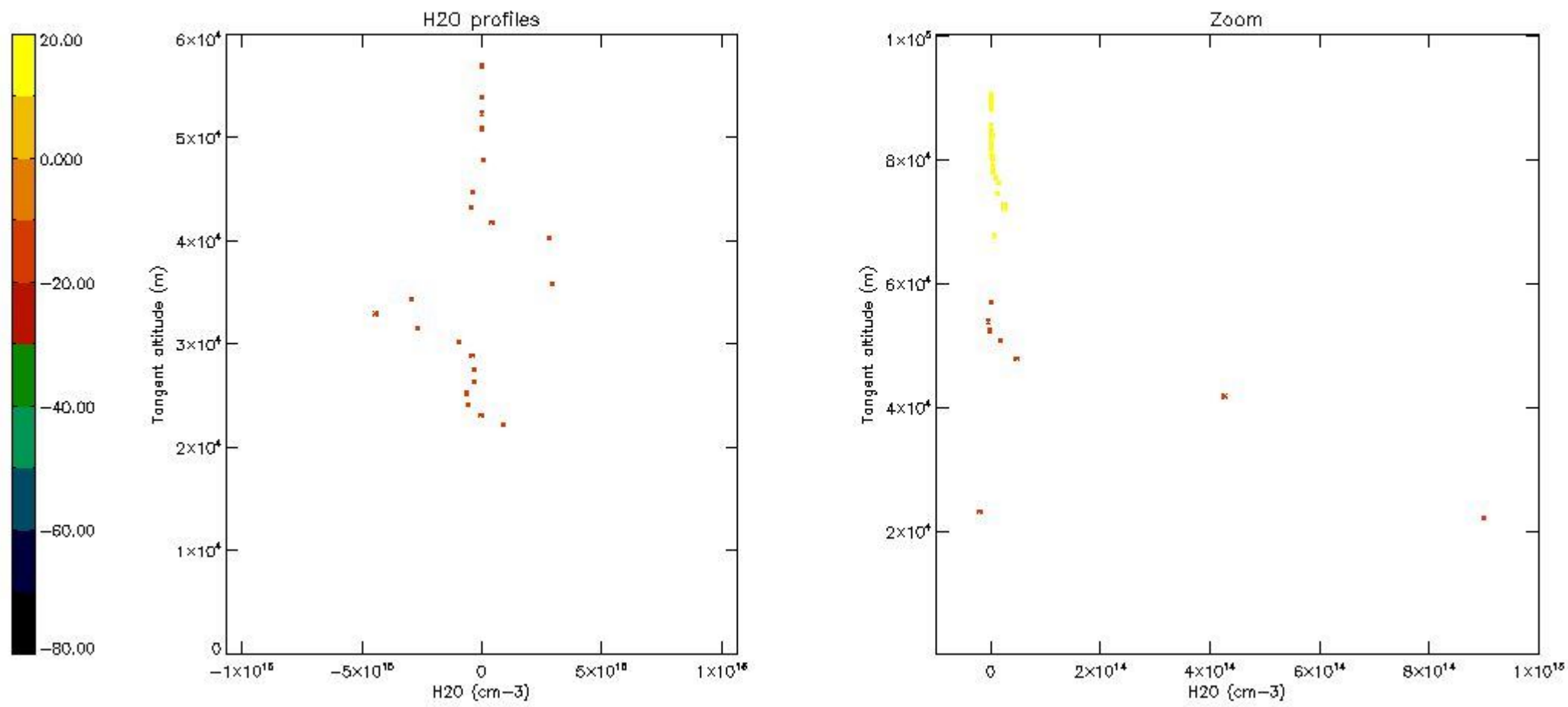
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

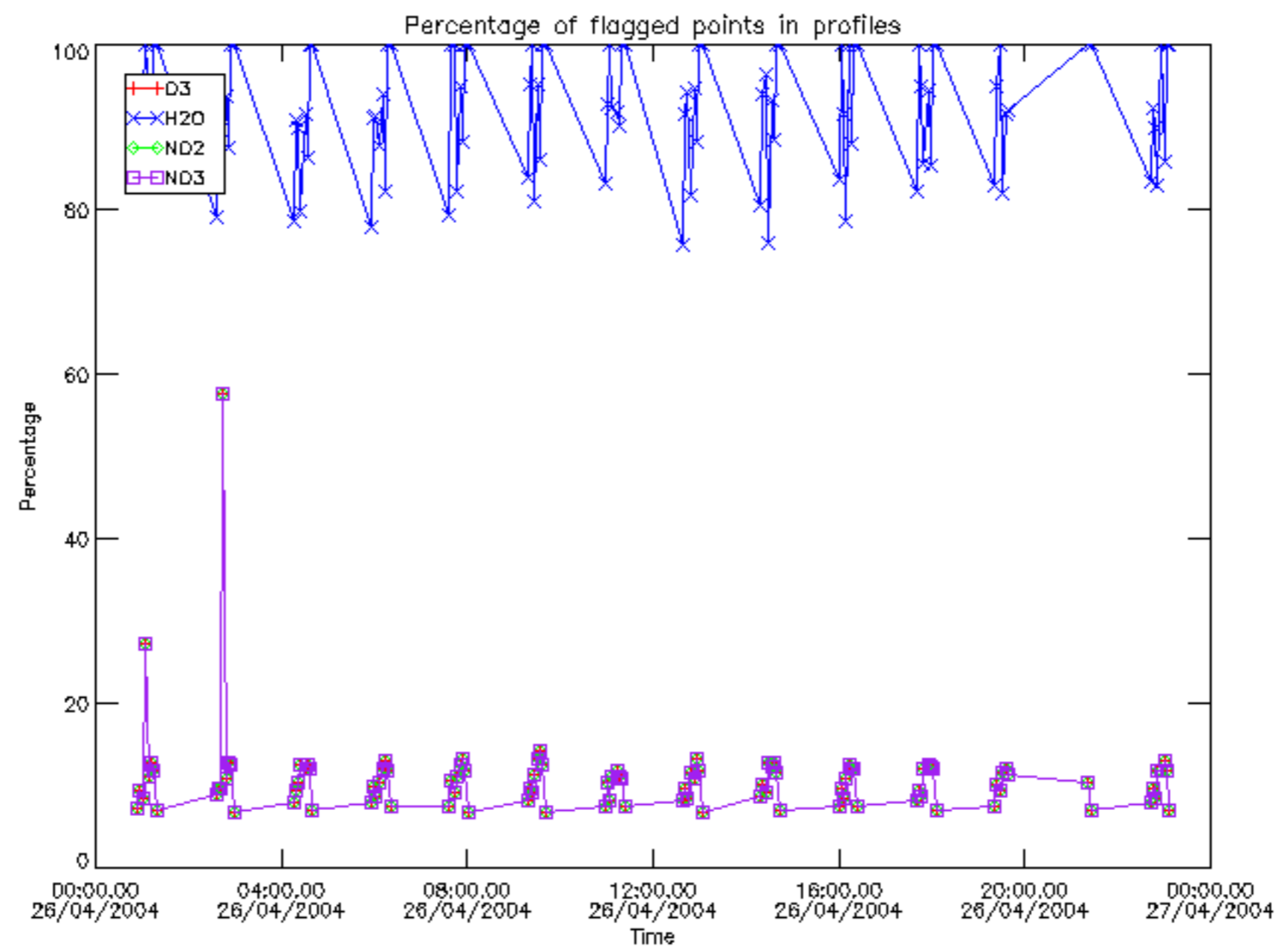
The colorbar represents the latitude.



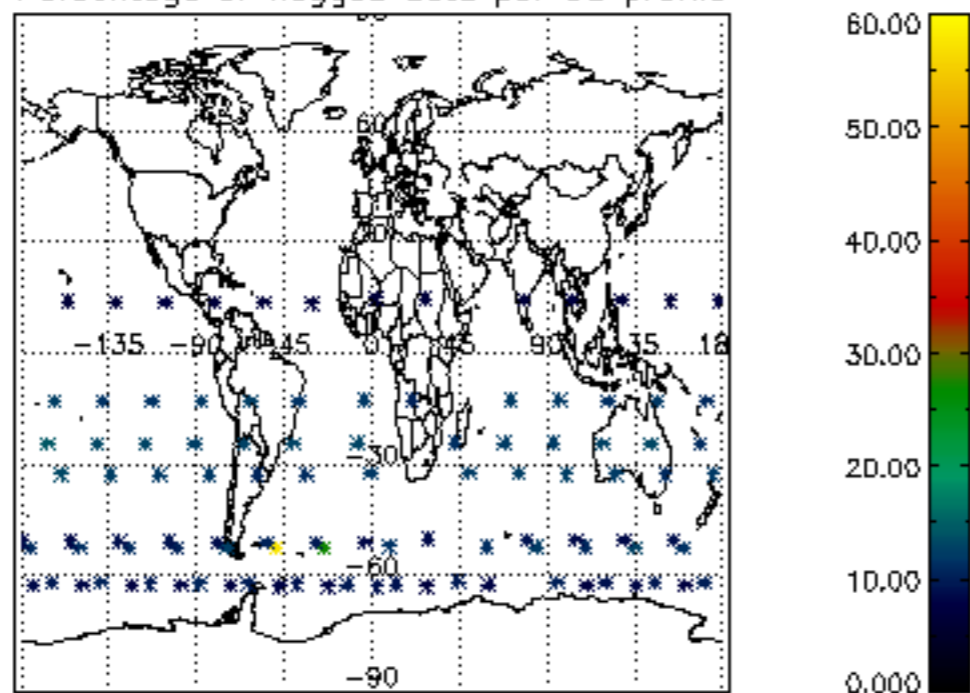
6. Auxiliary Data Files used for the production reported in section 2

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.

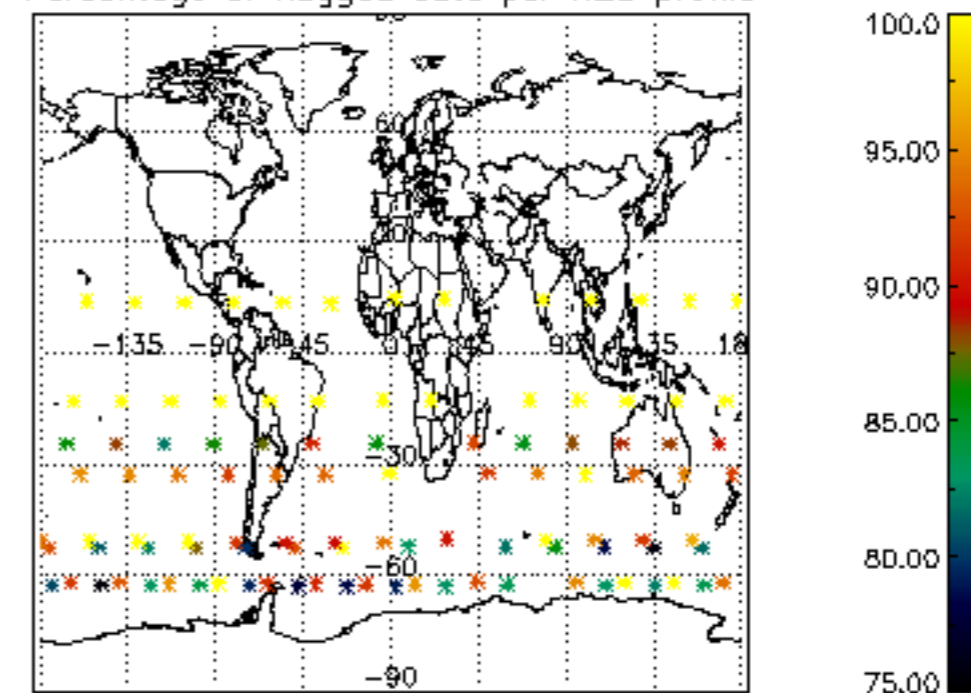
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-APR-2004 00:03:01
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-APR-2004 00:03:01
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-APR-2004 00:03:01



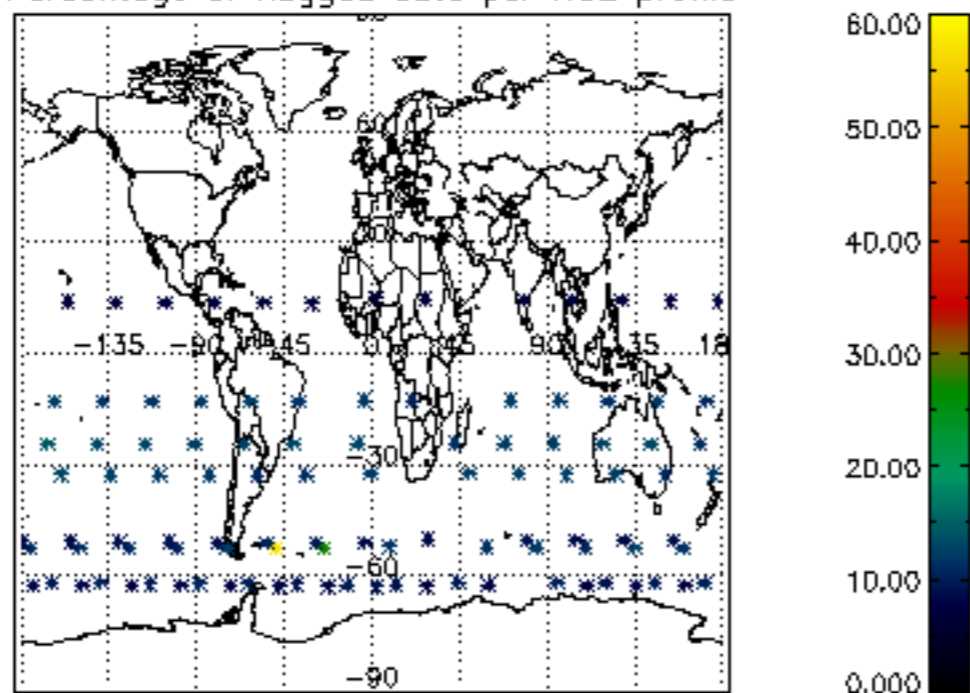
Percentage of flagged data per D3 profile



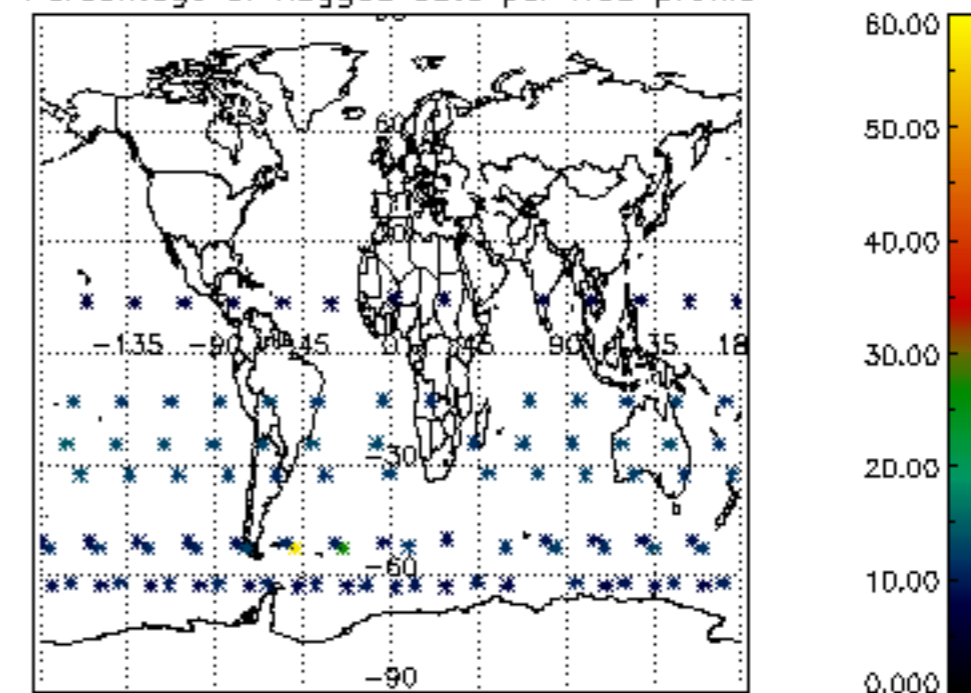
Percentage of flagged data per H2O profile

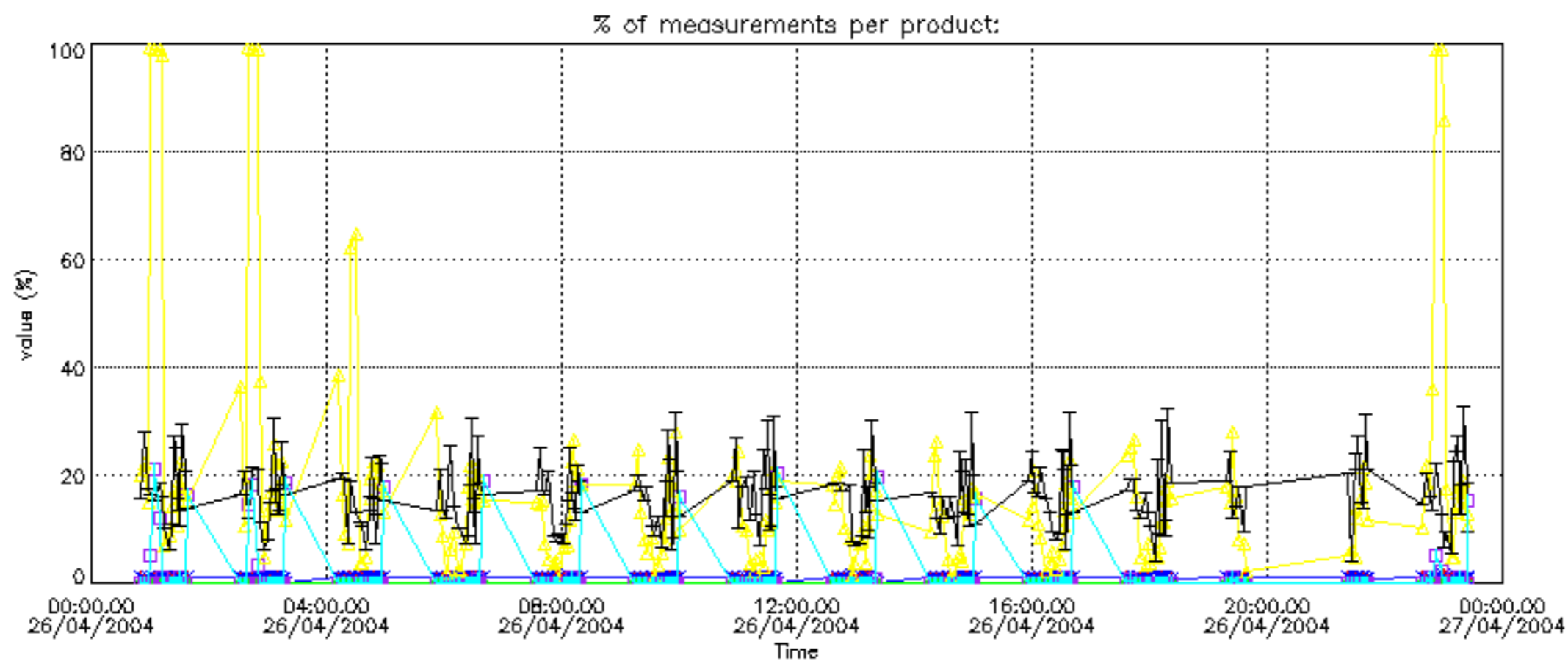


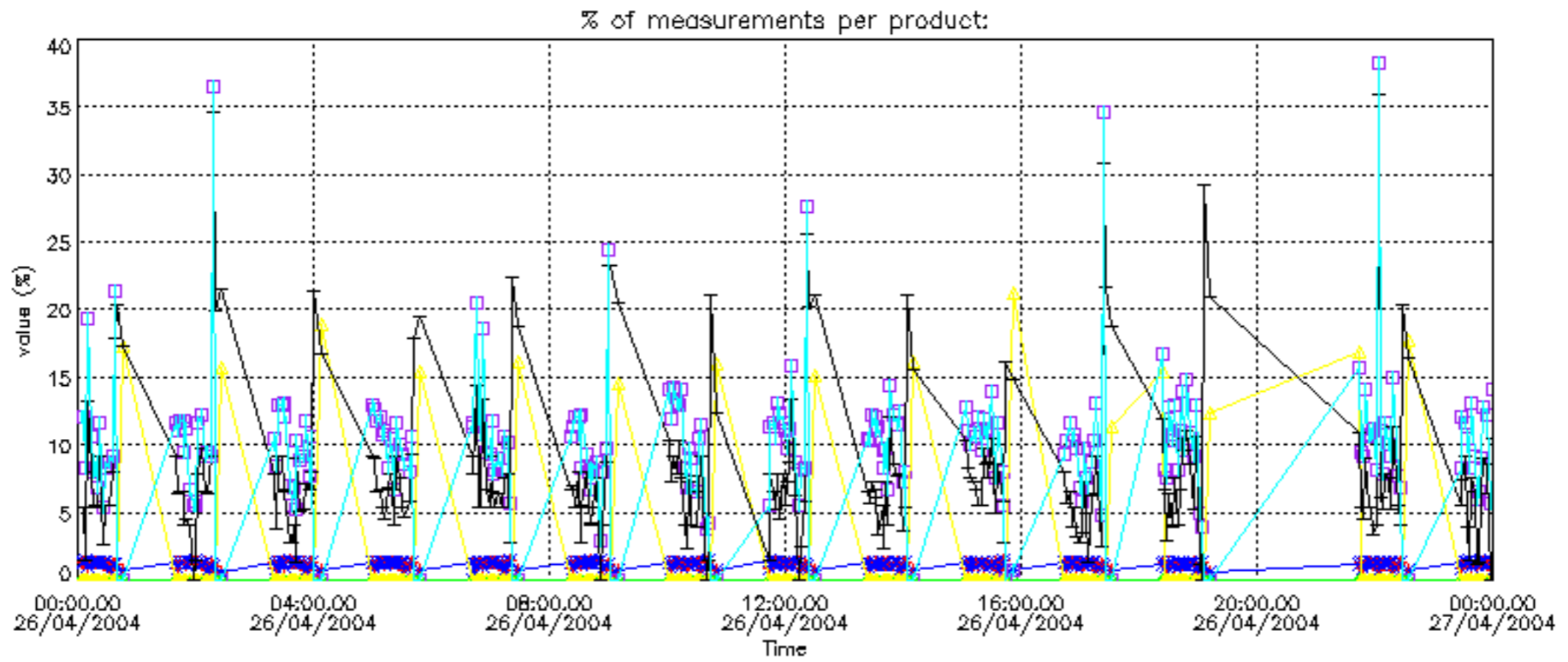
Percentage of flagged data per NO2 profile



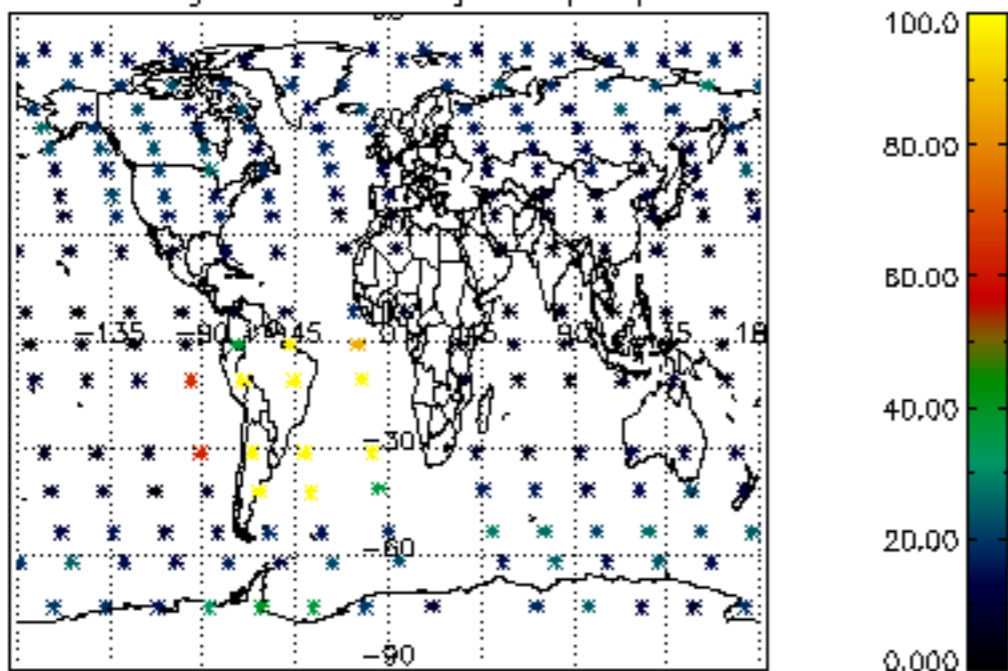
Percentage of flagged data per NO3 profile



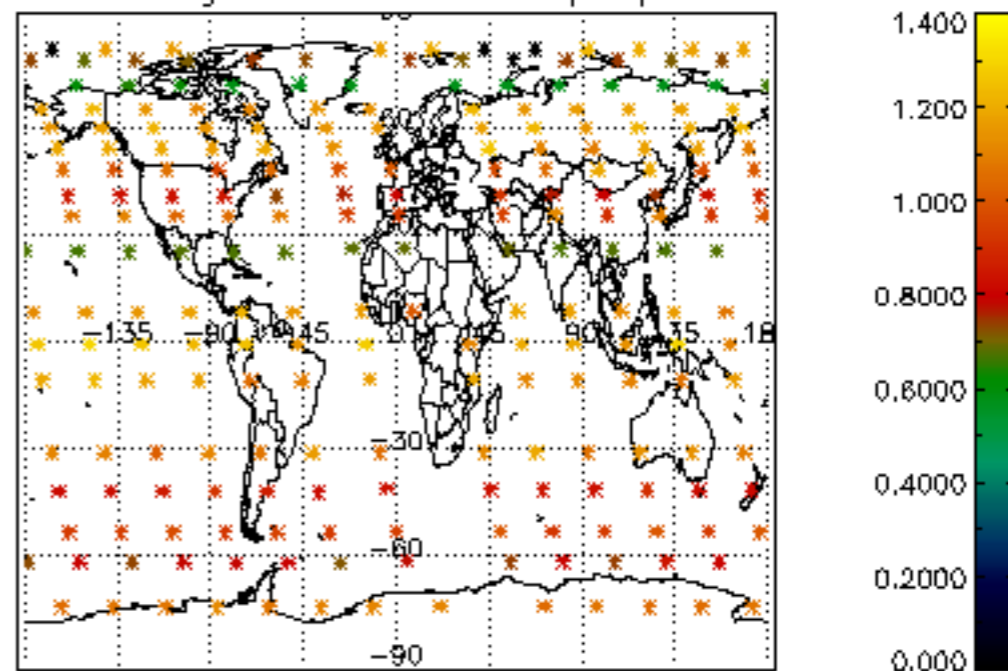




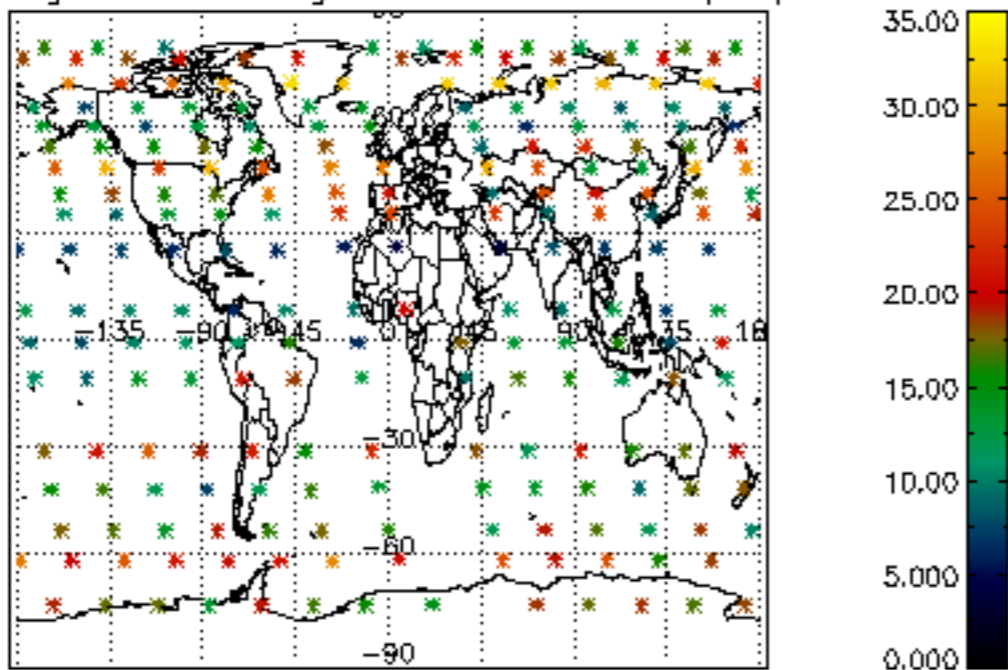
Percentage of cosmic ray hits per profile



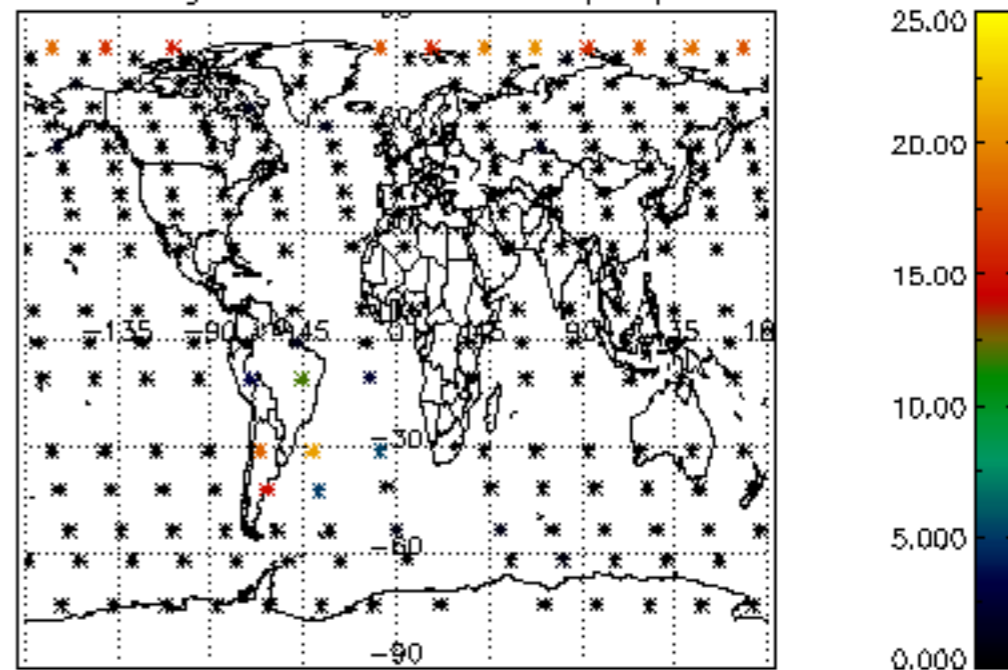
Percentage of datation errors per profile



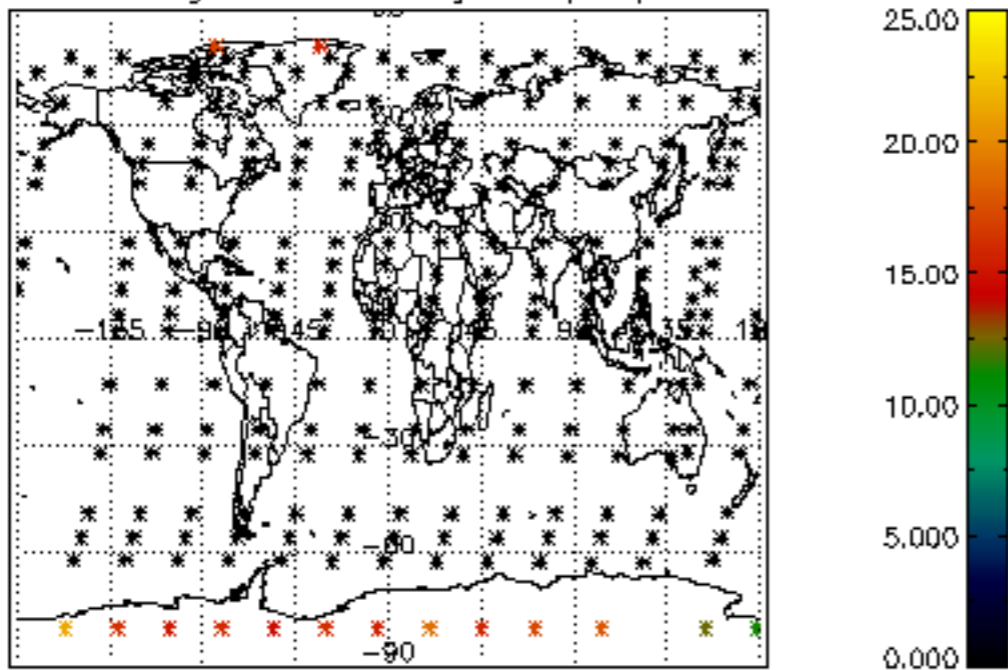
Percentage of star falling outside central band per profile



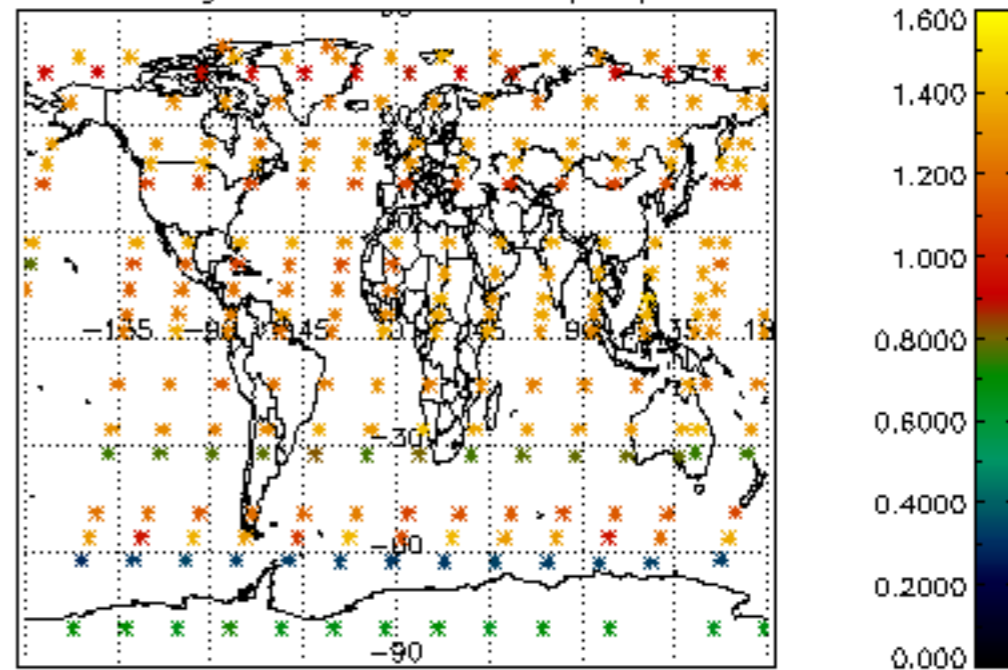
Percentage of saturation errors per profile



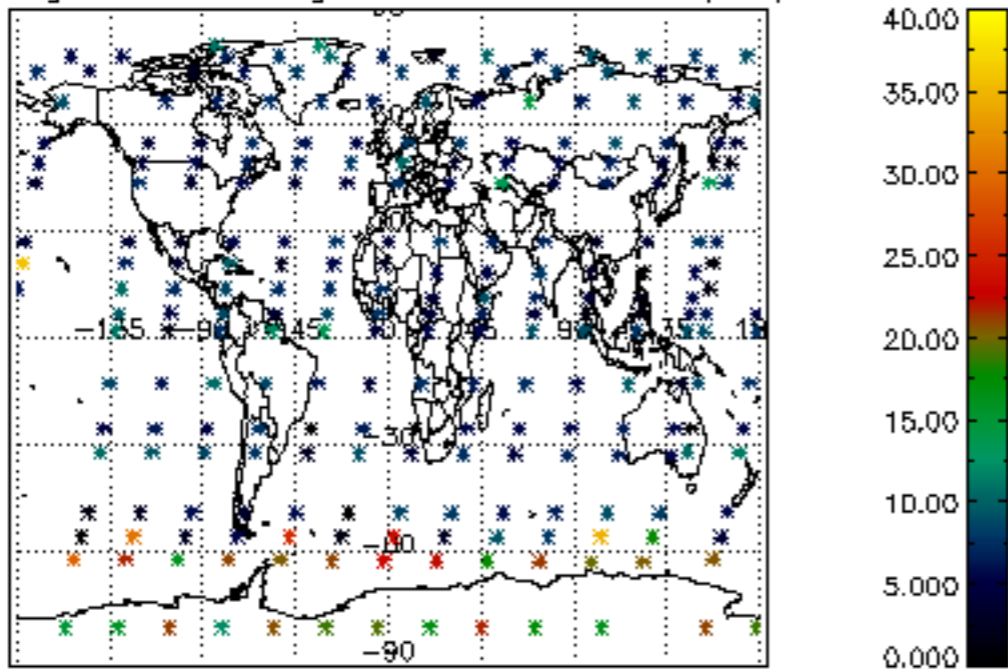
Percentage of cosmic ray hits per profile



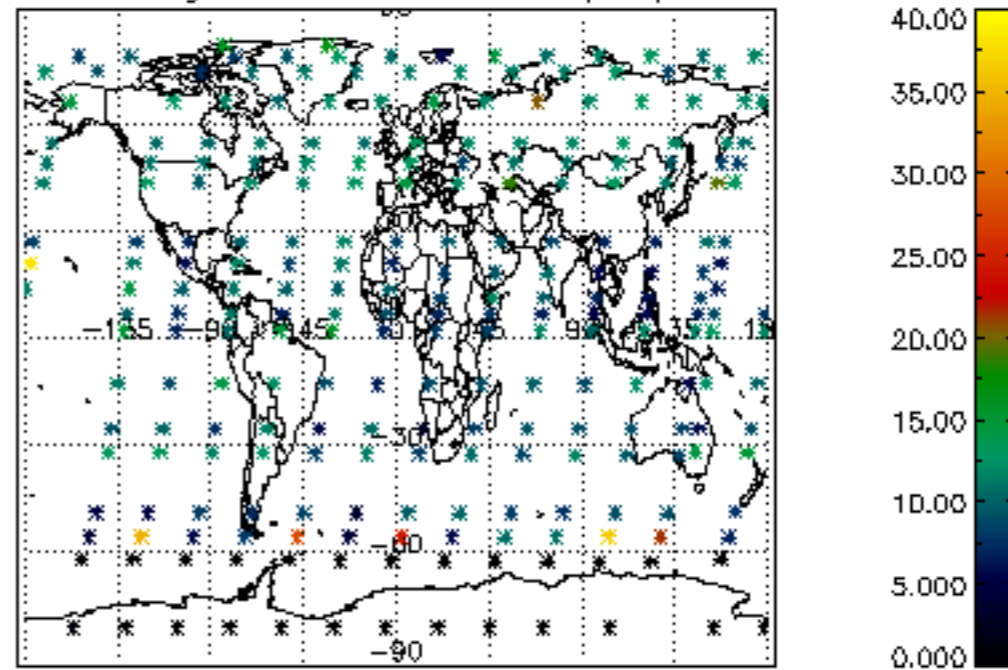
Percentage of datation errors per profile

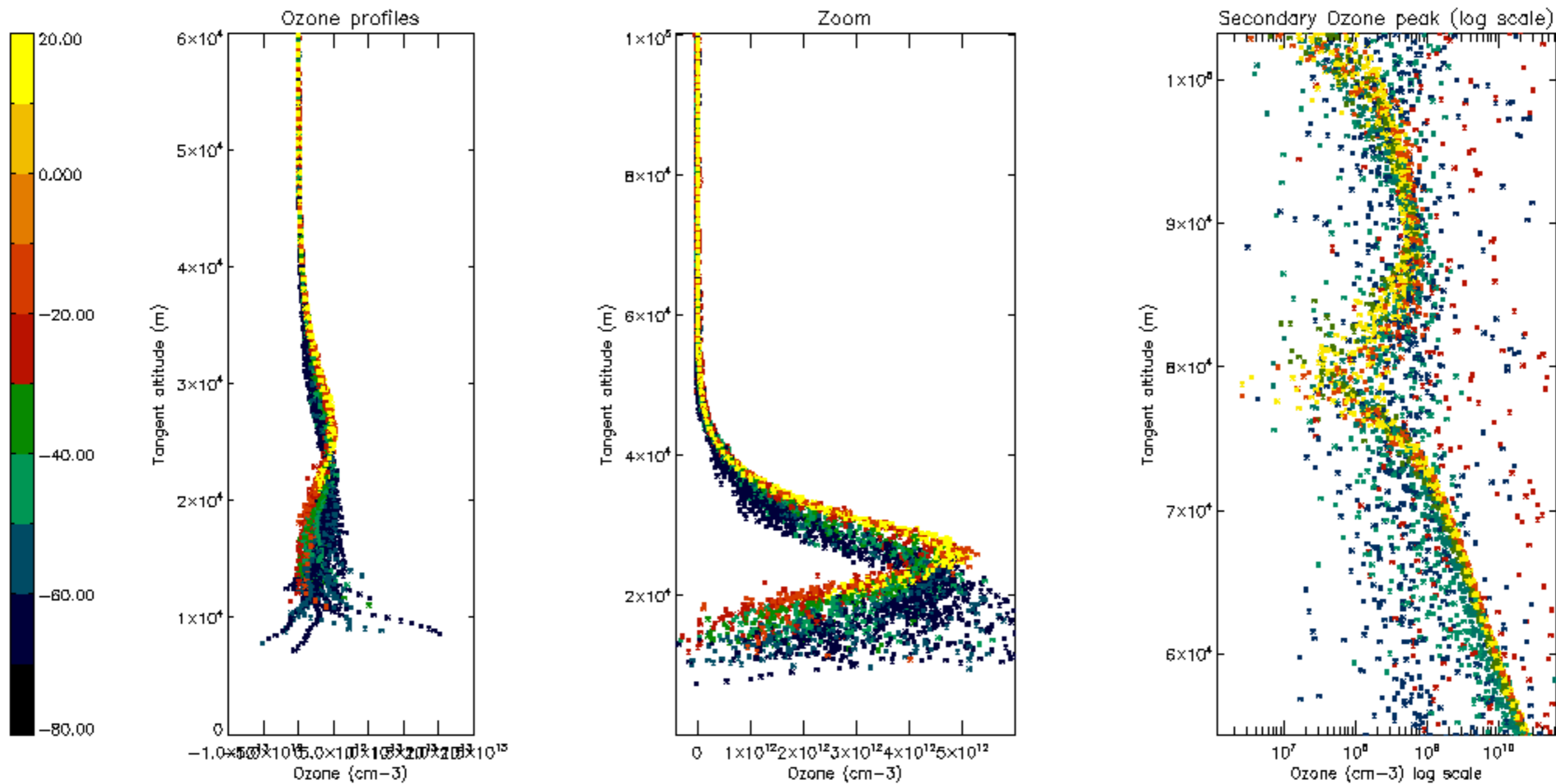


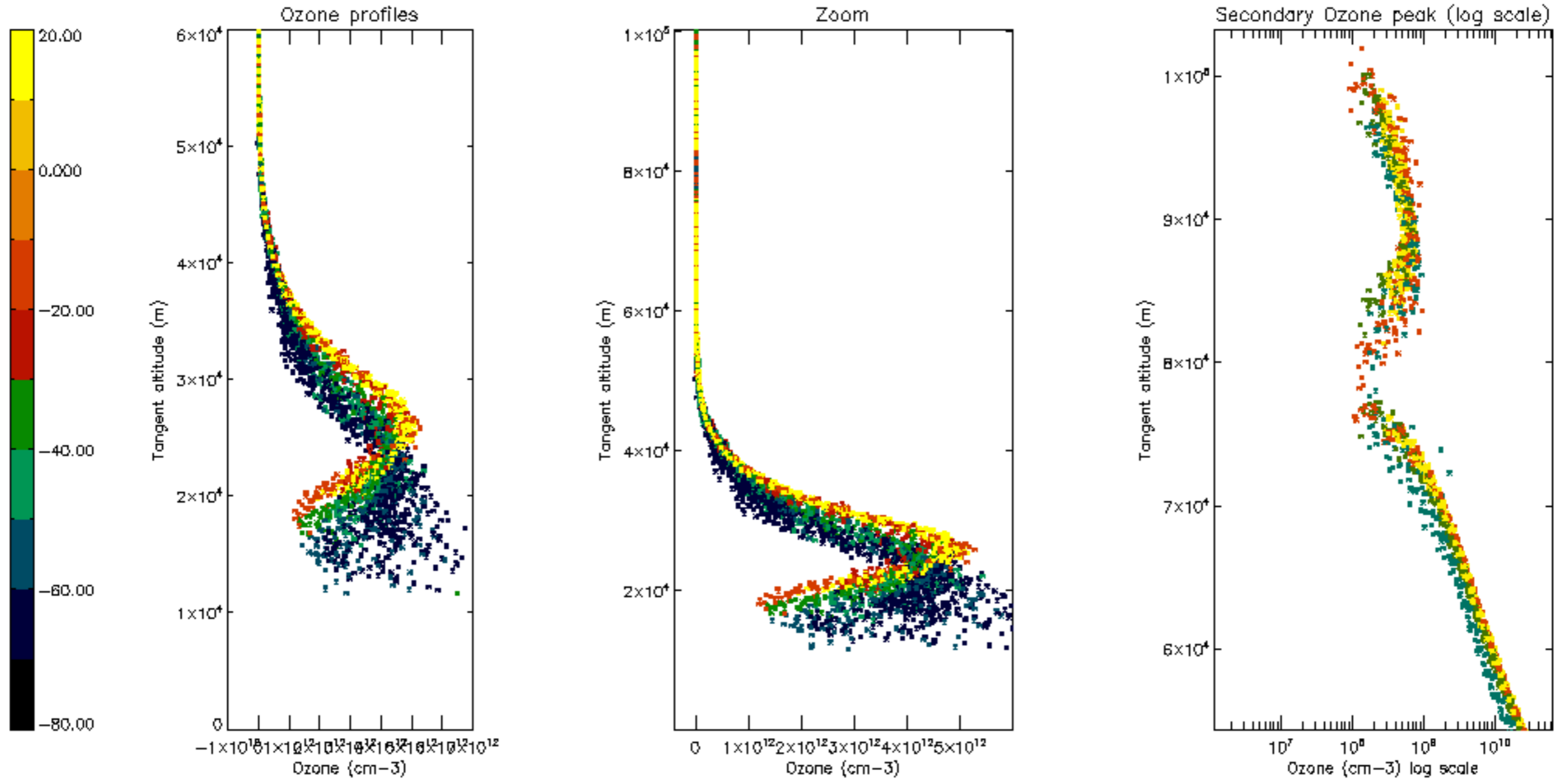
Percentage of star falling outside central band per profile

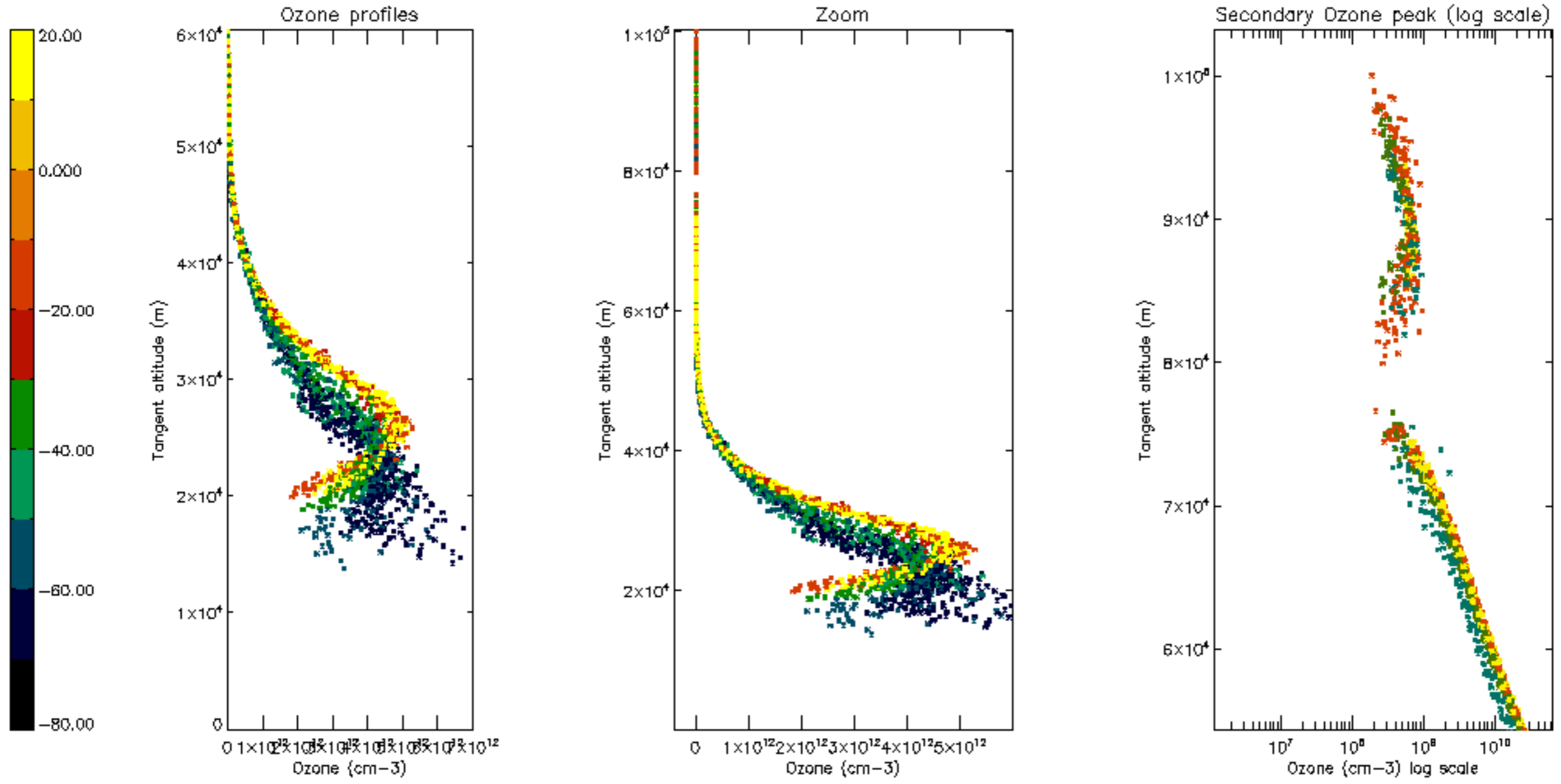


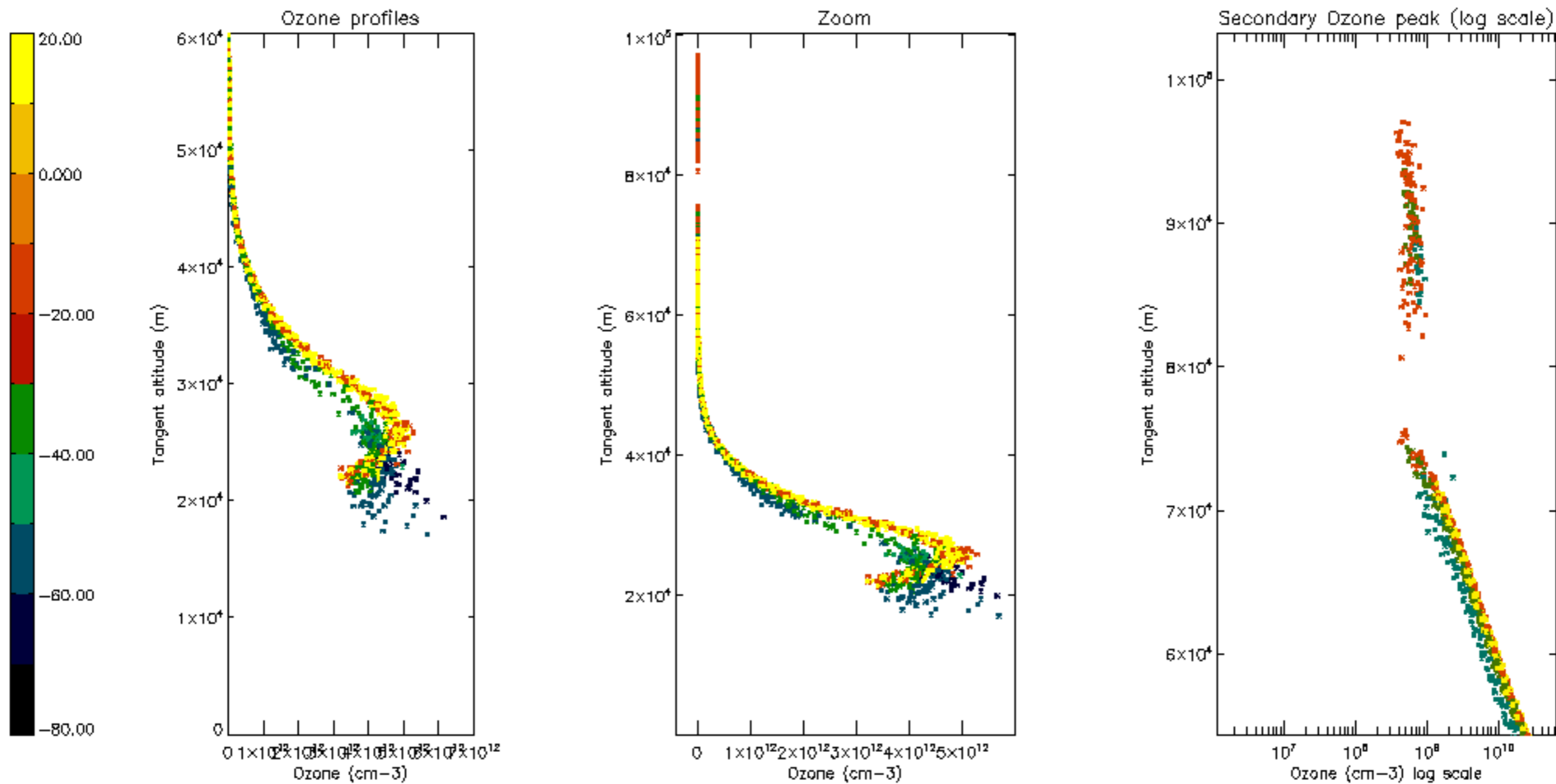
Percentage of saturation errors per profile

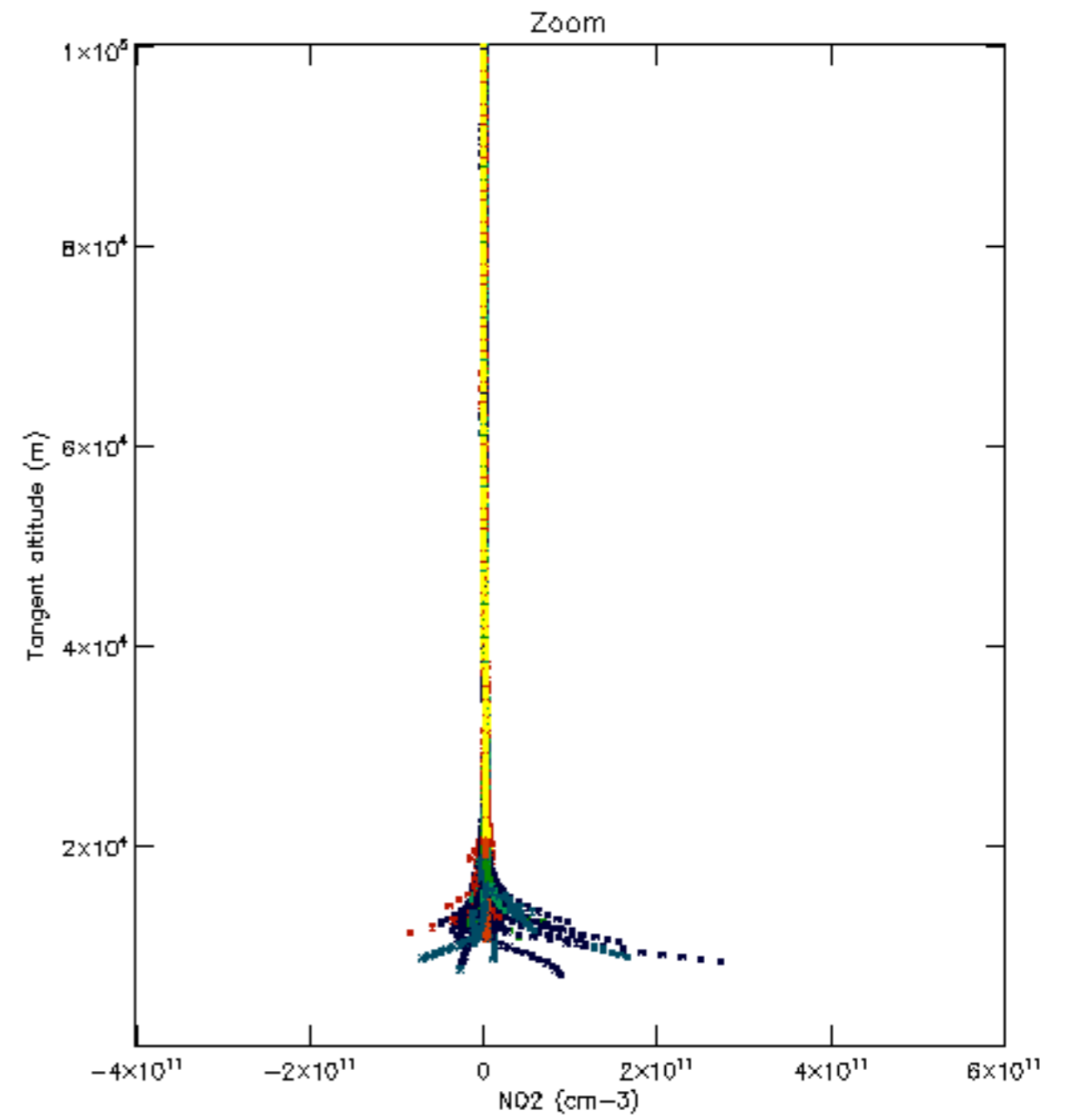
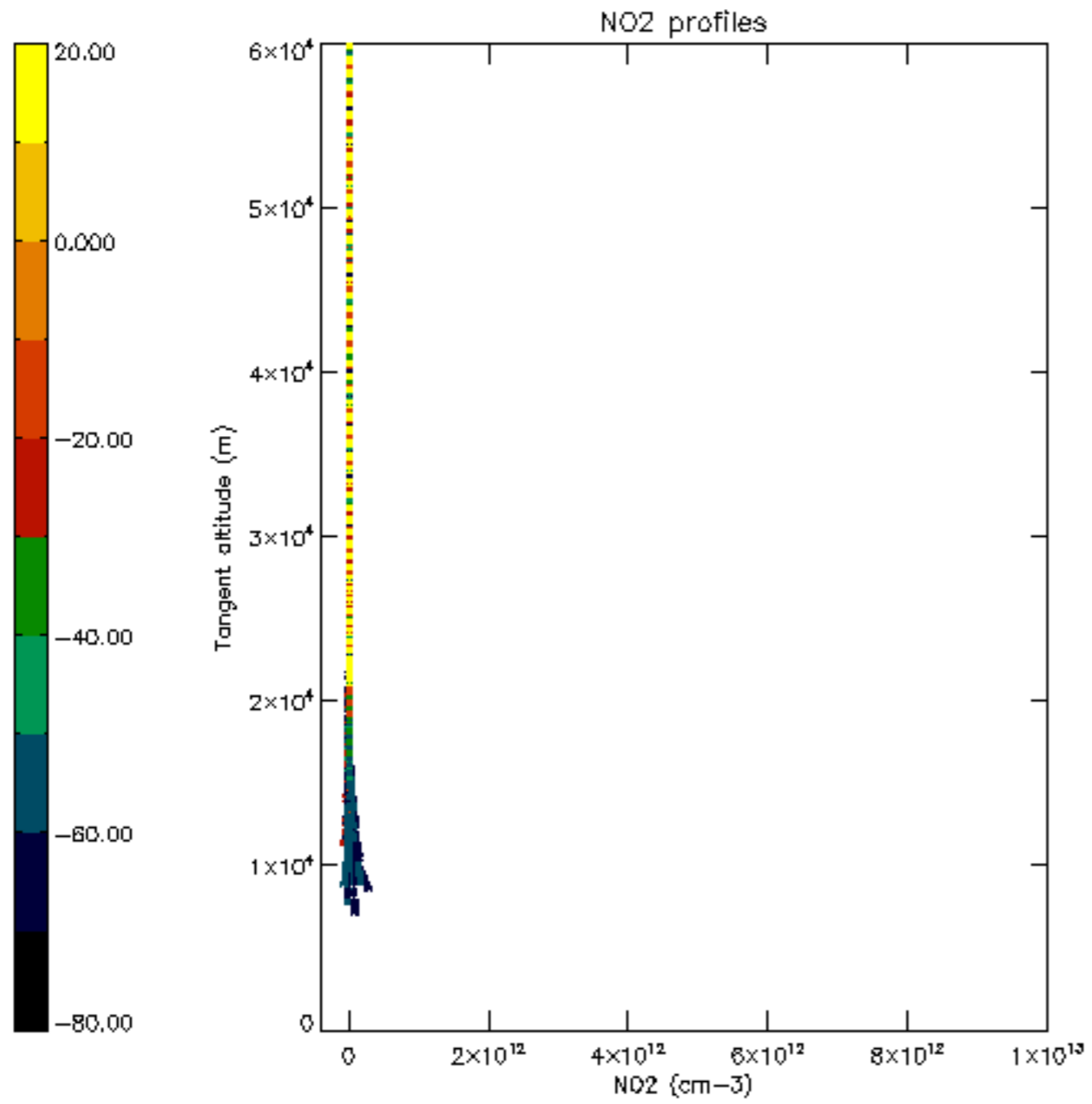


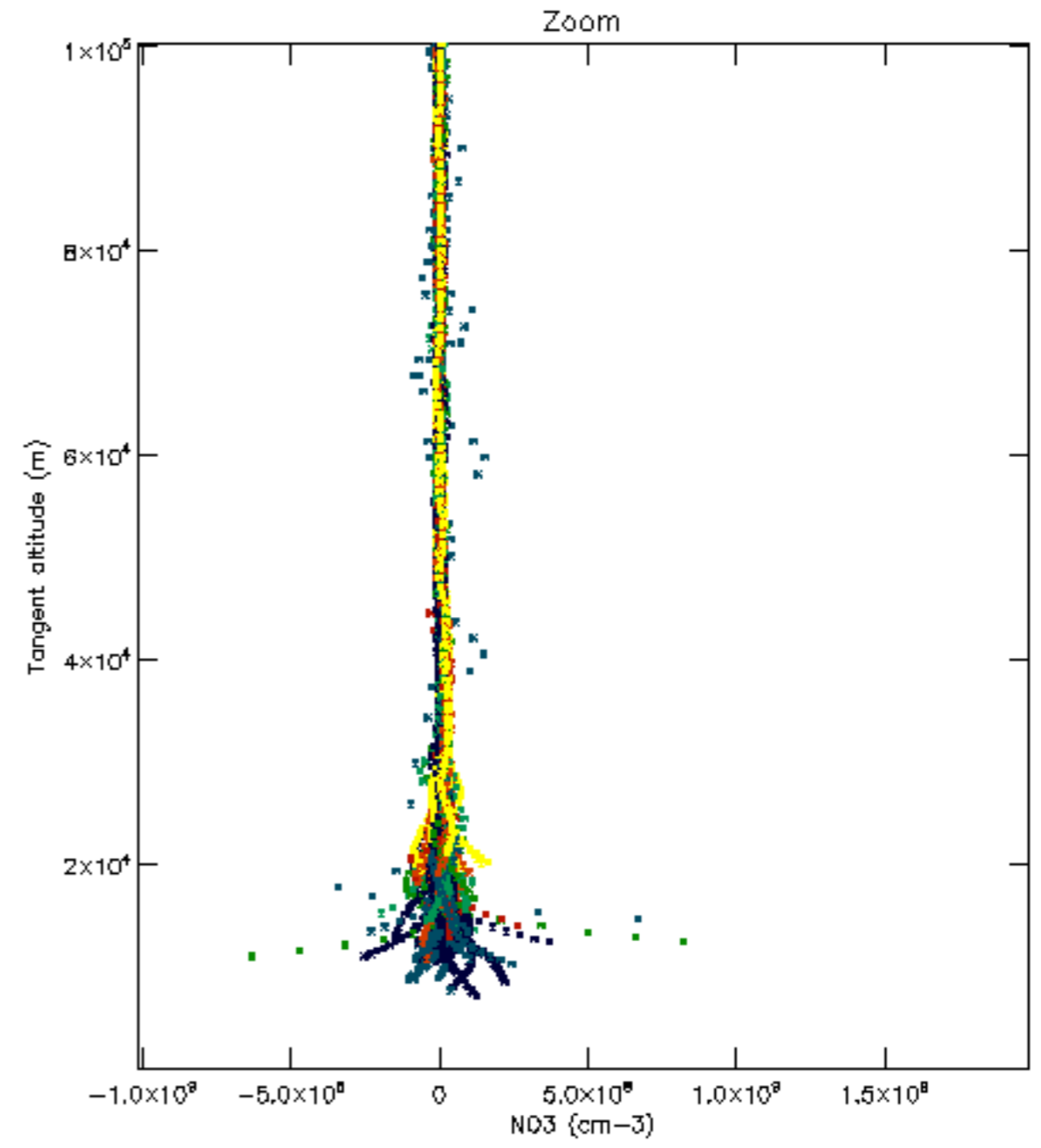
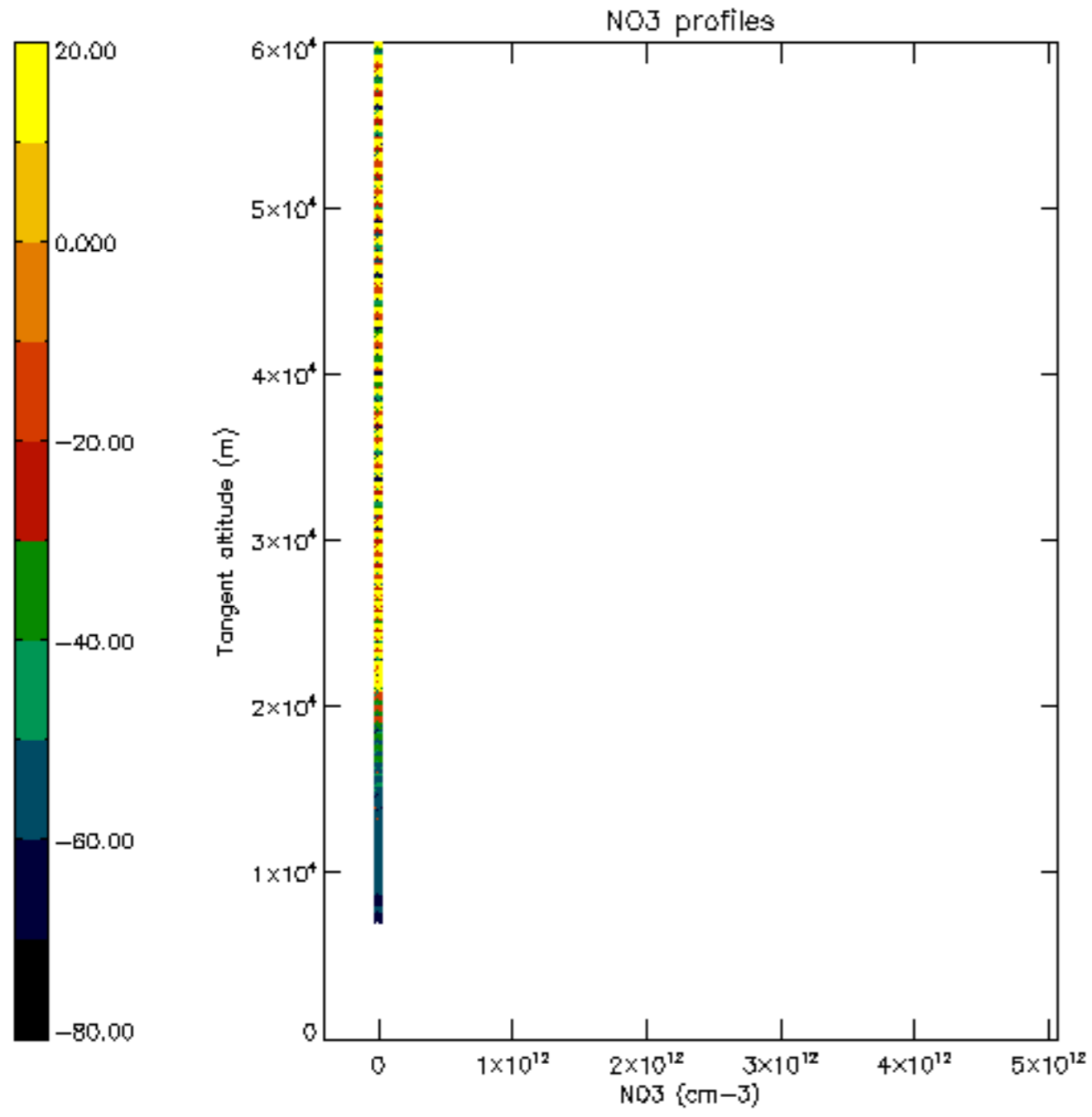


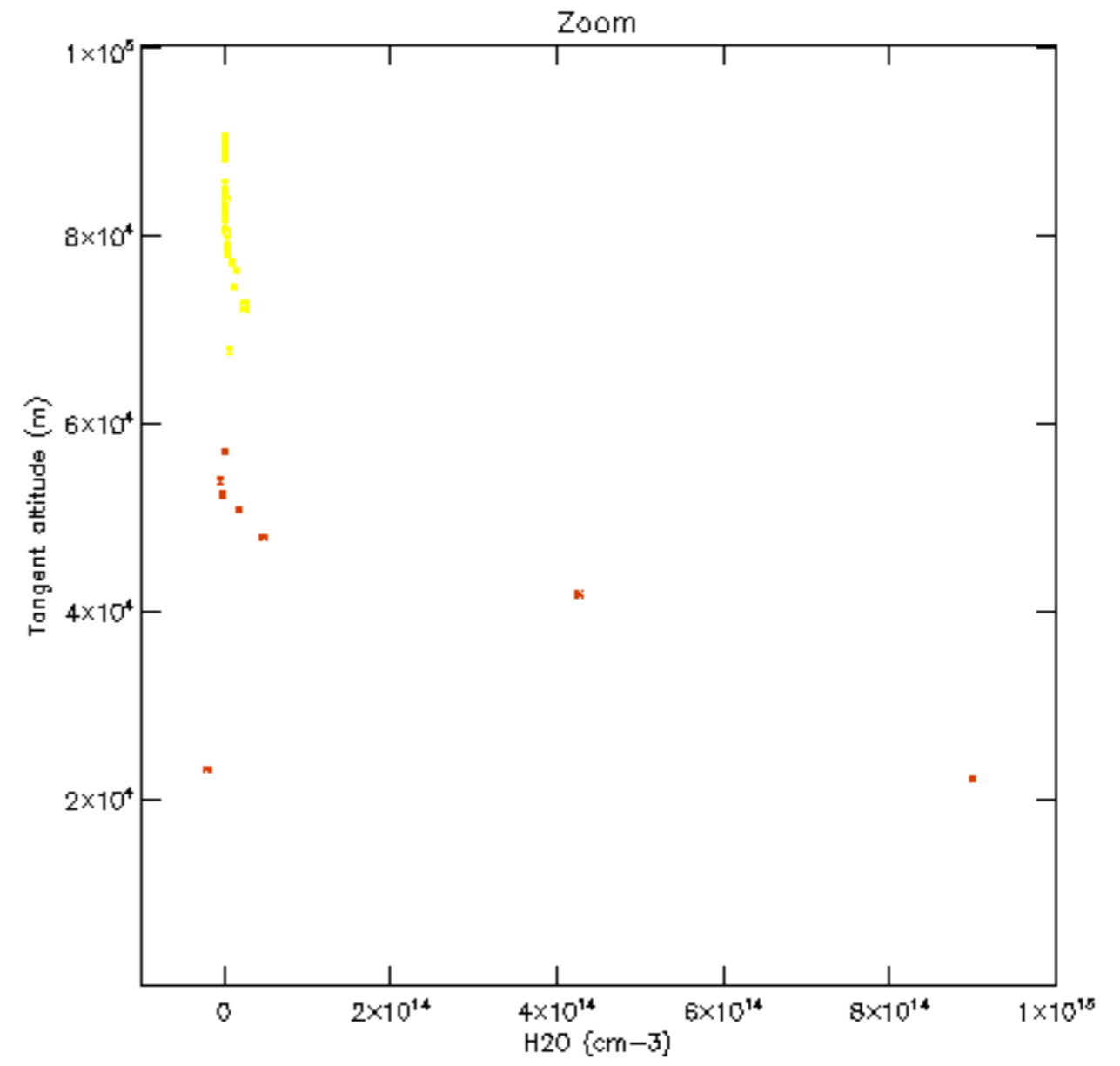
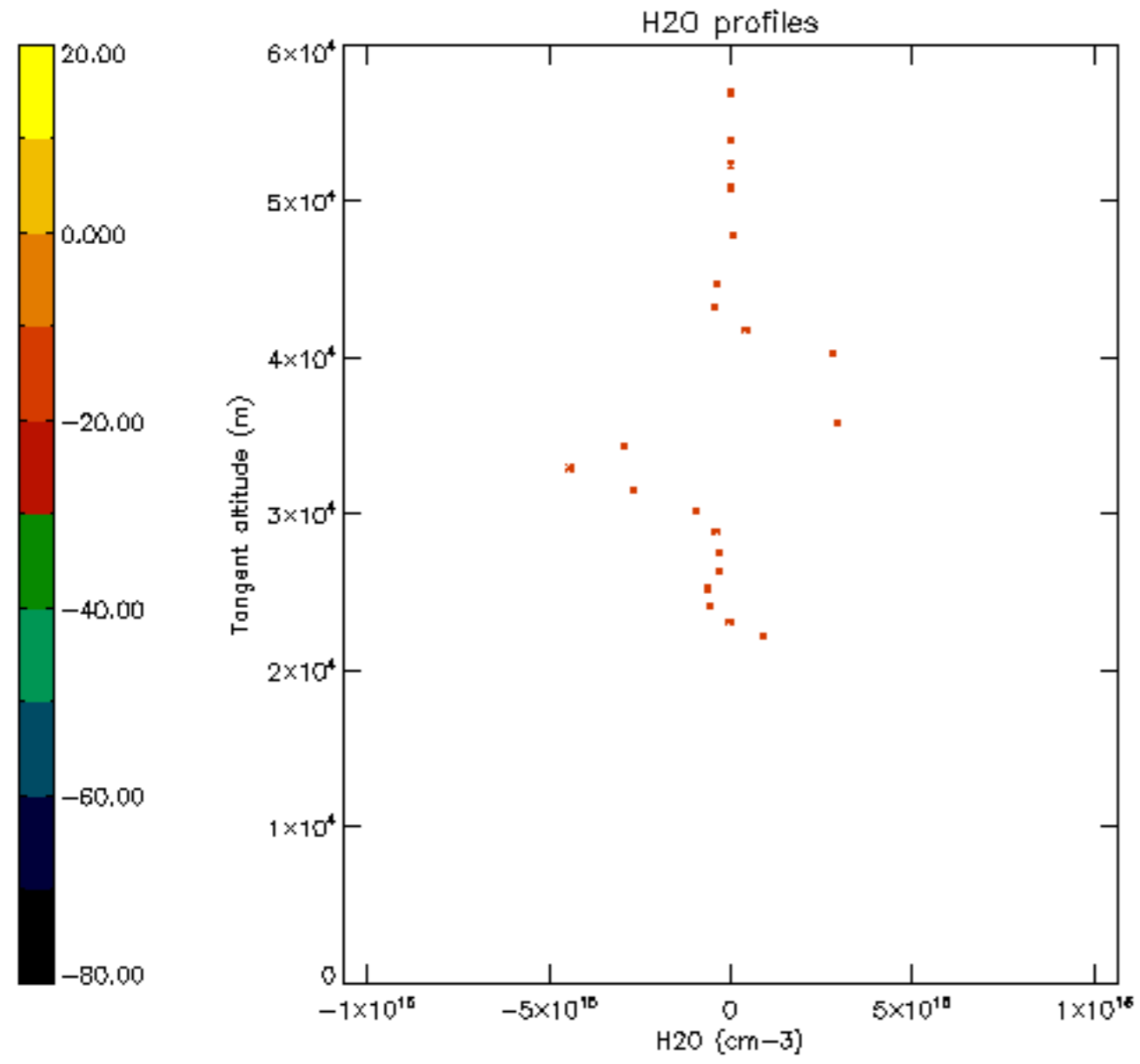


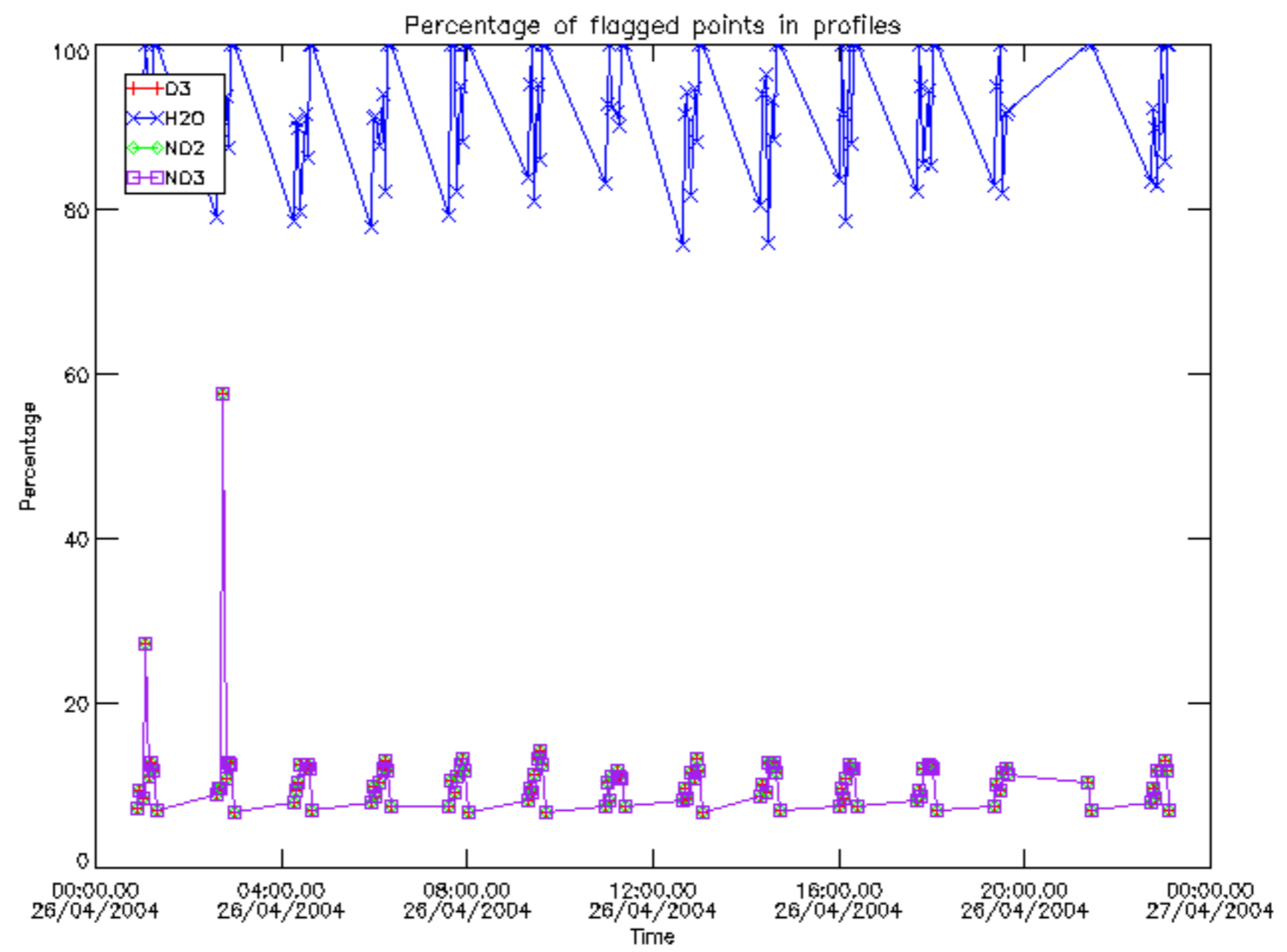




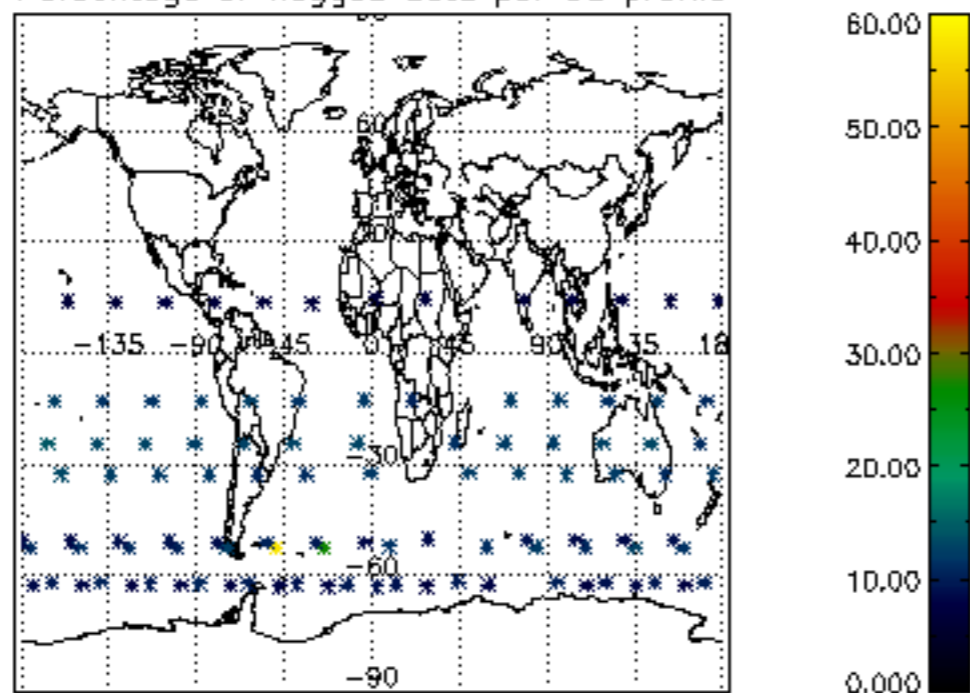




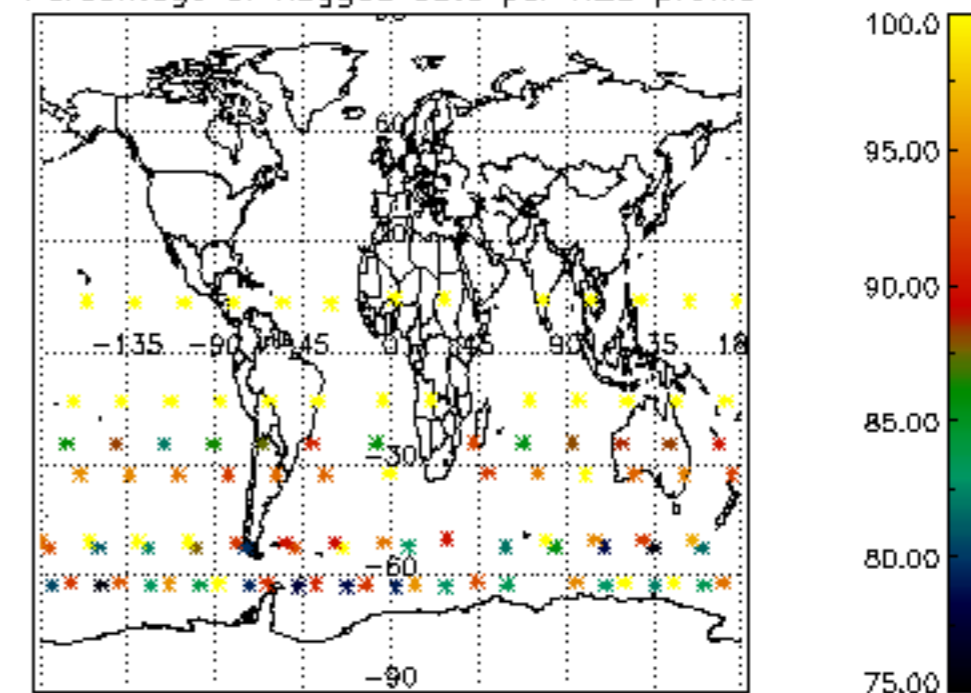




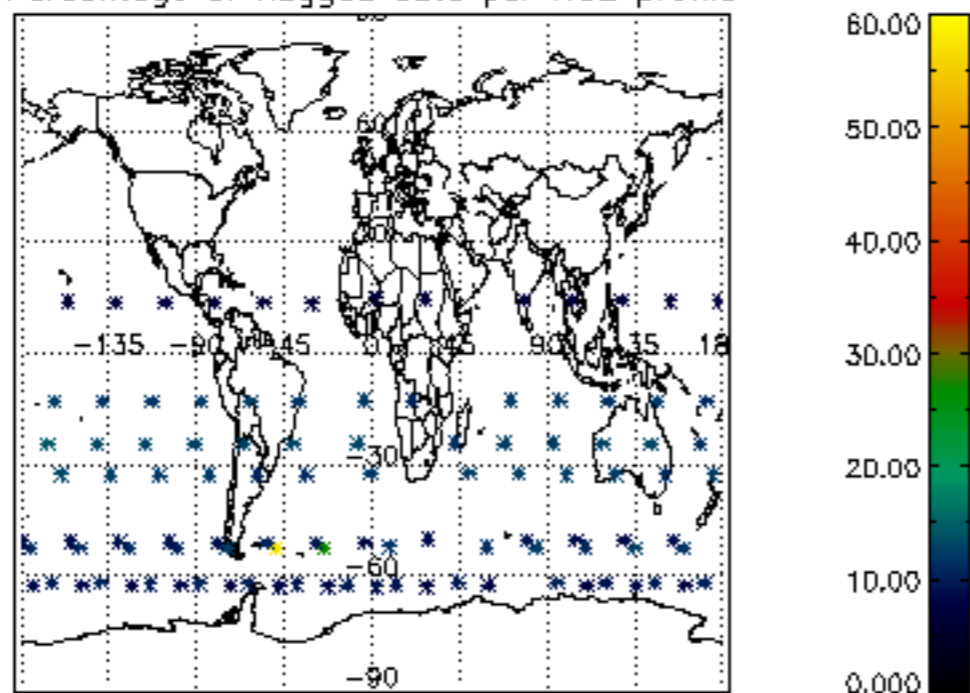
Percentage of flagged data per D3 profile



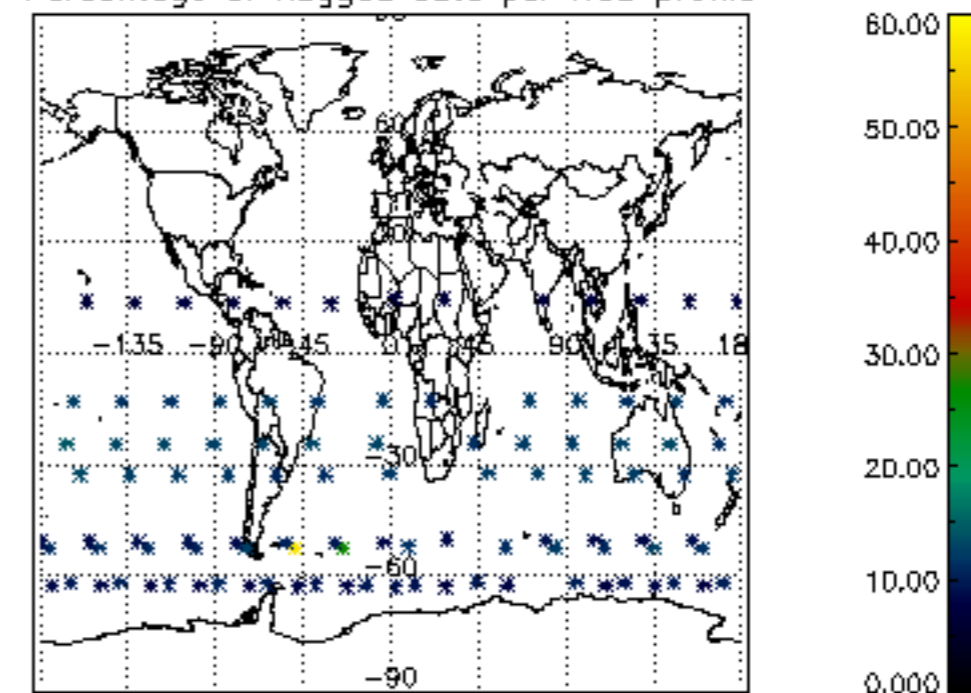
Percentage of flagged data per H2O profile

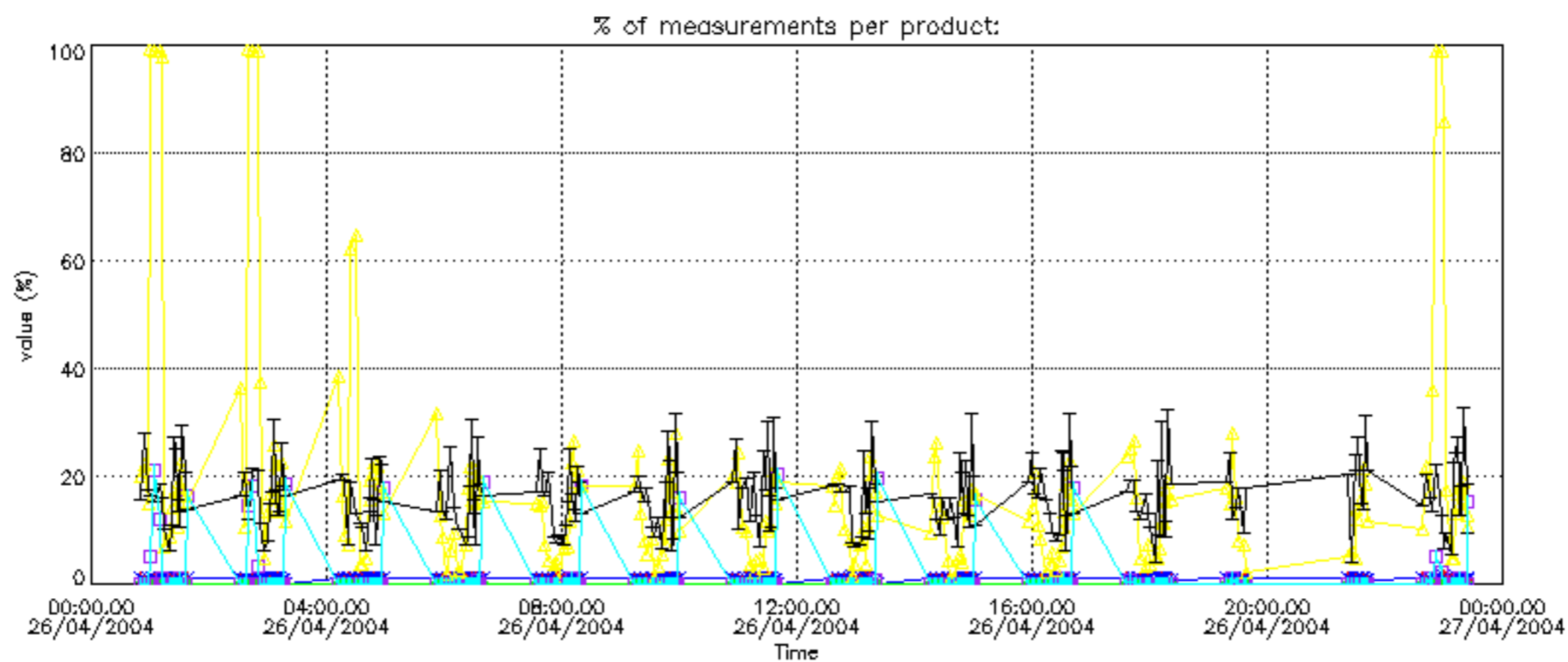
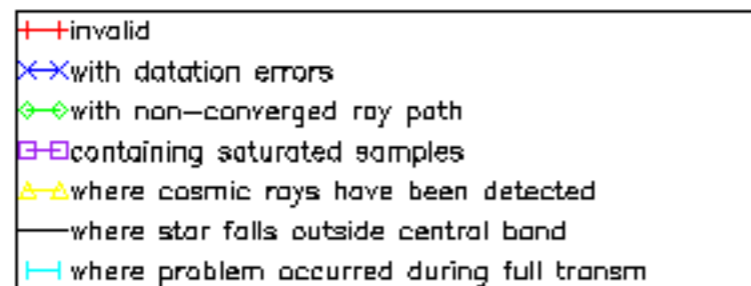


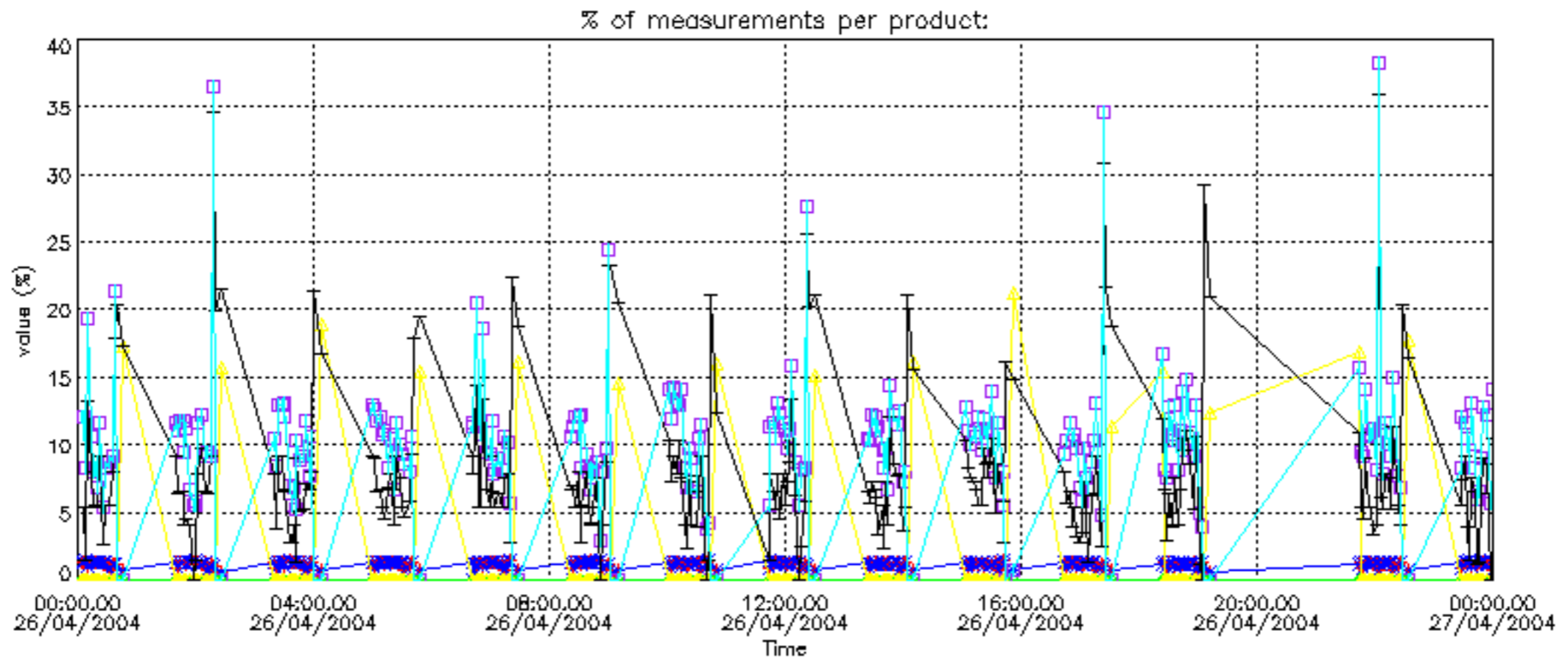
Percentage of flagged data per NO2 profile



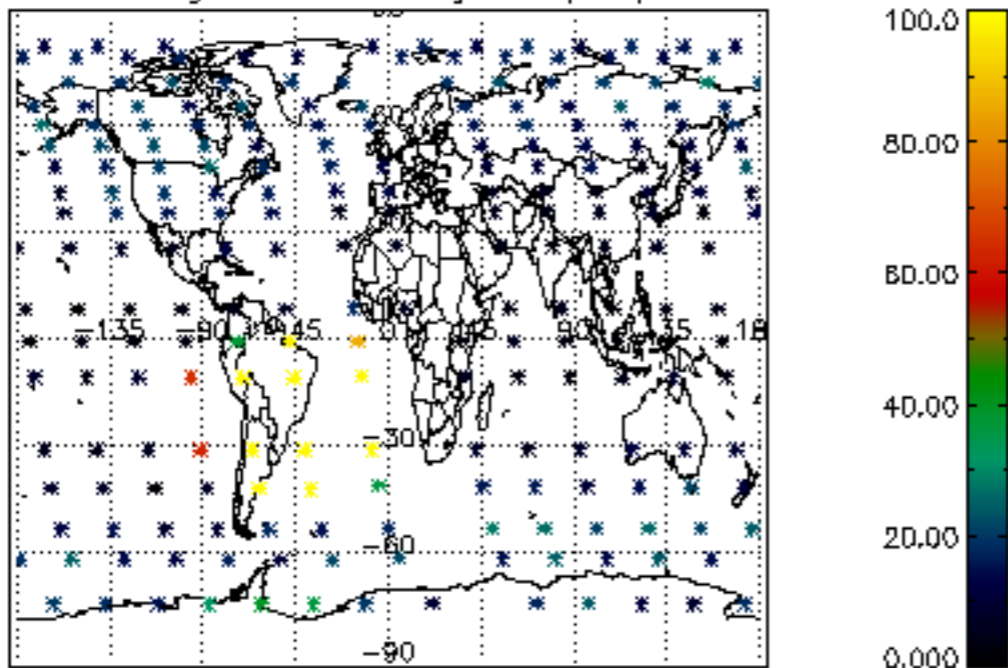
Percentage of flagged data per NO3 profile



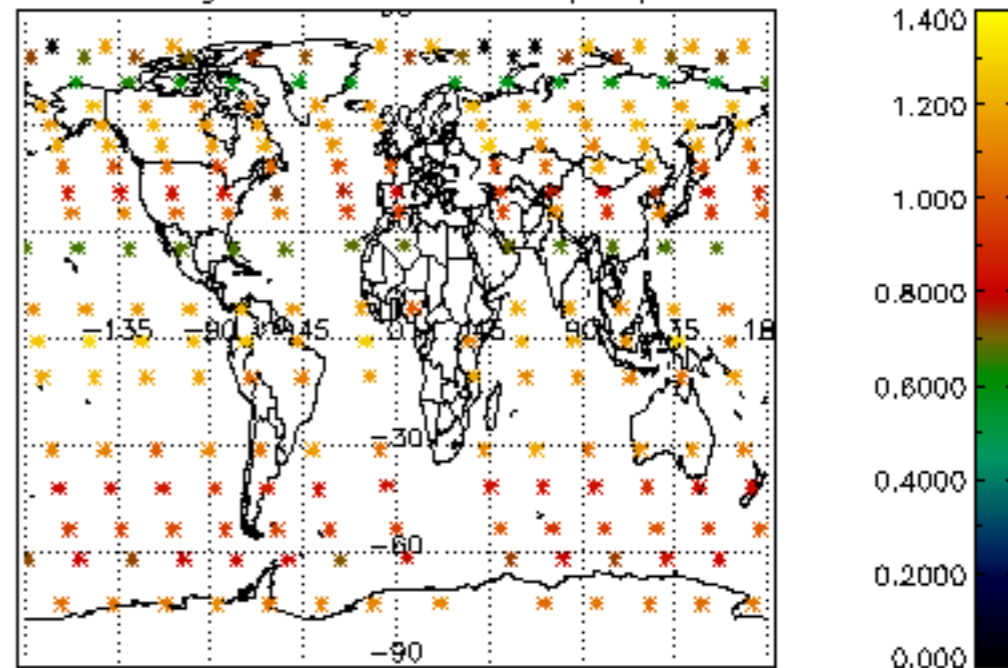




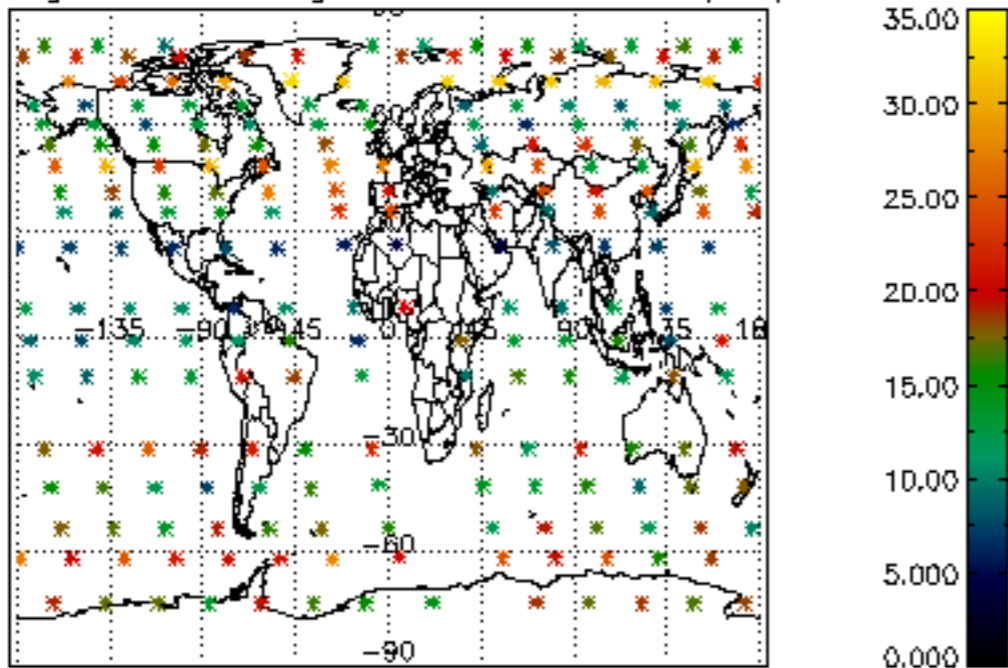
Percentage of cosmic ray hits per profile



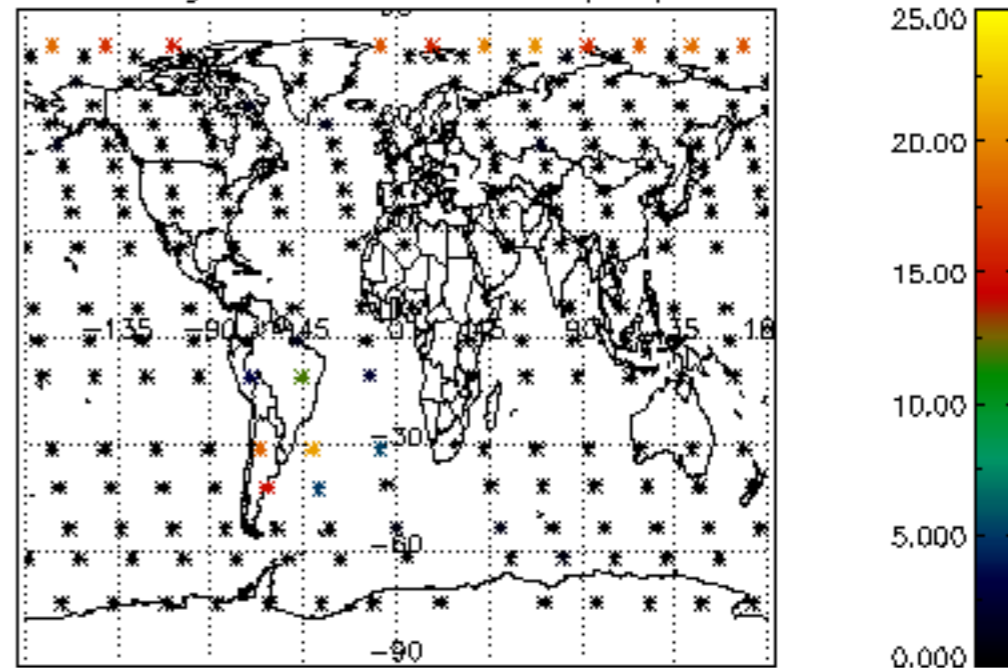
Percentage of datation errors per profile



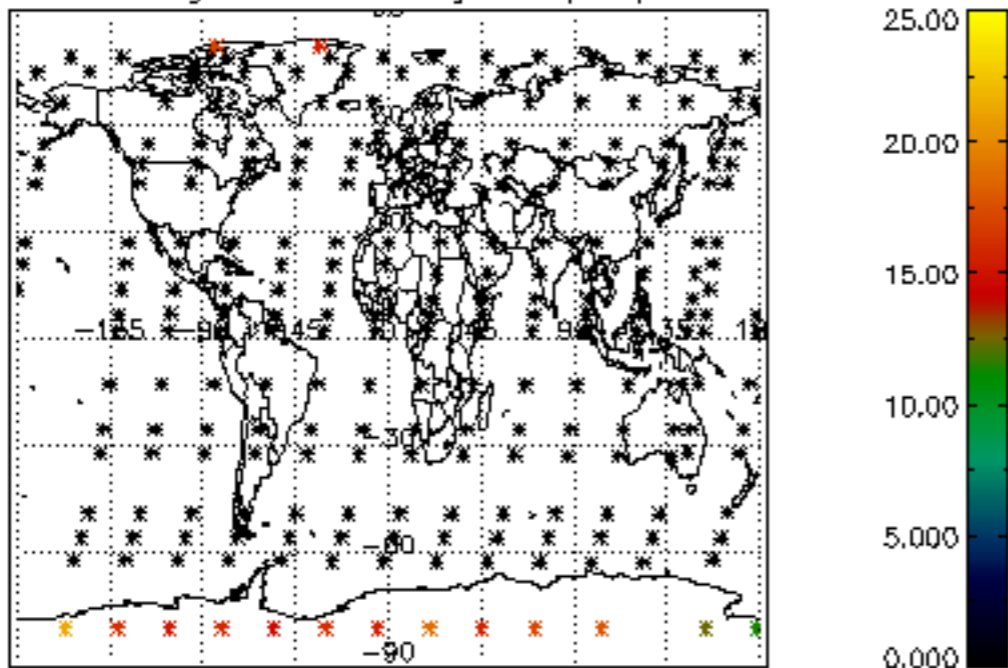
Percentage of star falling outside central band per profile



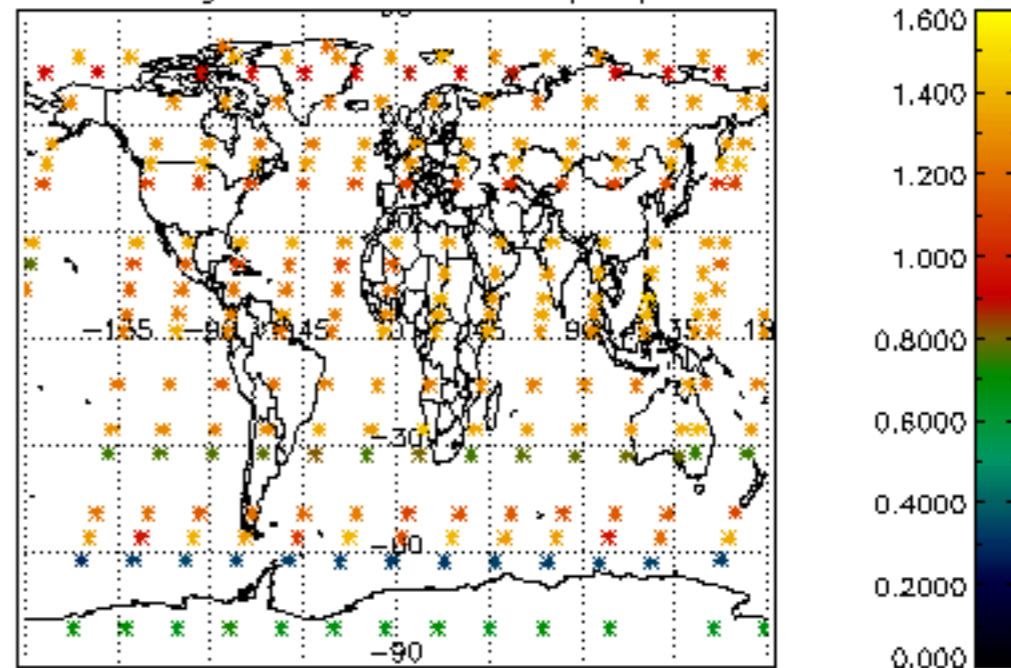
Percentage of saturation errors per profile



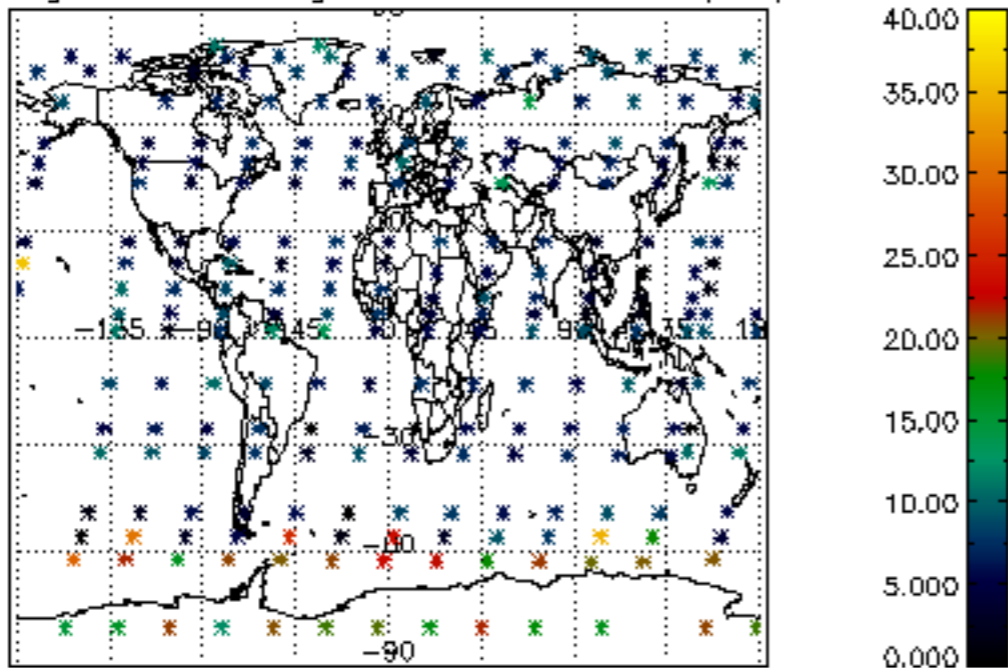
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

