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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	19APR2013 01:04:38
Data source version	GOMOS/6.01
Start time of products	01-05-2004 (01MAY2004 00:00:00)
Stop time of products	02-05-2004 (02MAY2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	468
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

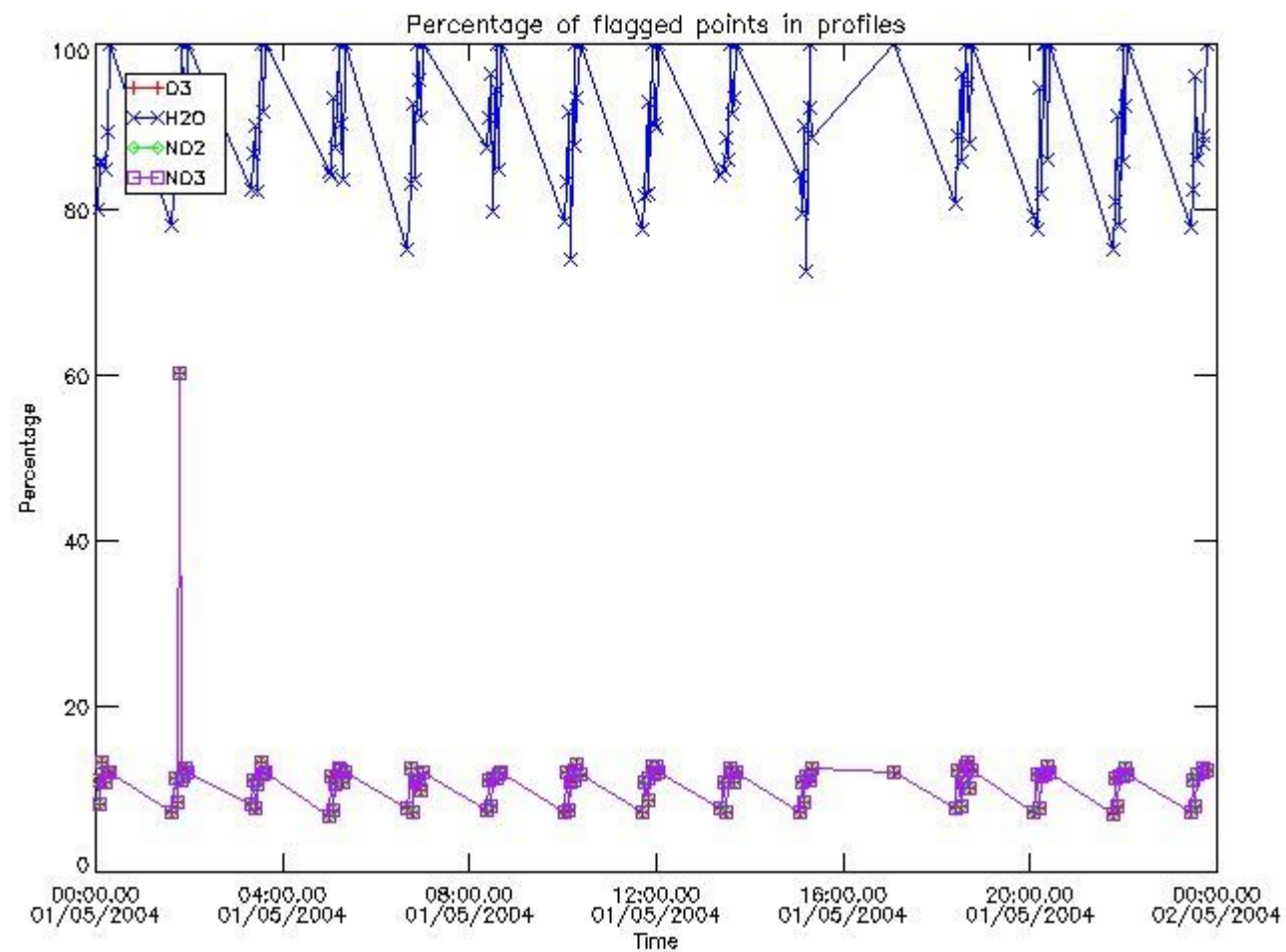
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20040501_000129_000000462026_00259_11335_2266.N1	01-MAY-2004 00:01:29	Dark	45.500	52	16Bet Cet	2.0370	4500.0	91	11335	No
2	GOM_NL__2PRFIN20040501_000411_000000682026_00259_11335_2267.N1	01-MAY-2004 00:04:11	Dark	67.500	154	22Bet Aqr	2.8990	5700.0	135	11335	No
3	GOM_NL__2PRFIN20040501_000629_000000432026_00259_11335_2268.N1	01-MAY-2004 00:06:29	Dark	42.500	18	24Alp PsA	1.1660	9700.0	85	11335	No
4	GOM_NL__2PRFIN20040501_001215_000000472026_00259_11335_2269.N1	01-MAY-2004 00:12:15	Dark	46.500	31	Alp Gru	1.7340	15200.	93	11335	No
5	GOM_NL__2PRFIN20040501_001449_000000432026_00260_11336_2243.N1	01-MAY-2004 00:14:49	Dark	42.500	148	Alp Tuc	2.8780	4100.0	85	11336	No
6	GOM_NL__2PRFIN20040501_001745_000000432026_00260_11336_2244.N1	01-MAY-2004 00:17:45	Dark	42.500	45	Alp Pav	1.9400	26000.	85	11336	No
7	GOM_NL__2PRFIN20040501_002417_000000512026_00260_11336_2245.N1	01-MAY-2004 00:24:17	Straylight	51.000	43	Alp TrA	1.9100	4250.0	102	11336	No
8	GOM_NL__2PRFIN20040501_002615_000000702026_00260_11336_2246.N1	01-MAY-2004 00:26:15	Straylight	69.500	38	20Eps Sgr	1.8360	11000.	139	11336	No
9	GOM_NL__2PRFIN20040501_002834_000000532026_00260_11336_2247.N1	01-MAY-2004 00:28:34	Straylight	53.000	4	Alp1Cen	-0.010000	5800.0	106	11336	No
10	GOM_NL__2PRFIN20040501_003006_000000442026_00260_11336_2248.N1	01-MAY-2004 00:30:06	Straylight	44.000	20	Bet Cru	1.2530	30000.	88	11336	No
11	GOM_NL__2PRFIN20040501_003204_000000652026_00260_11336_2249.N1	01-MAY-2004 00:32:04	Straylight	65.000	75	26Eps Sco	2.2910	4250.0	130	11336	No
12	GOM_NL__2PRFIN20040501_003549_000000722026_00260_11336_2250.N1	01-MAY-2004 00:35:49	Twilight	72.000	16	21Alp Sco	1.0200	3000.0	144	11336	No
13	GOM_NL__2PRFIN20040501_003803_000000622026_00260_11336_2251.N1	01-MAY-2004 00:38:03	Twilight	62.000	80	7Del Sco	2.3160	30000.	124	11336	No
14	GOM_NL__2PRFIN20040501_004109_000000462026_00260_11336_2252.N1	01-MAY-2004 00:41:09	Bright	45.500	122	9Alp2Lib	2.7470	9700.0	91	11336	No
15	GOM_NL__2PRFIN20040501_004329_000000492026_00260_11336_2253.N1	01-MAY-2004 00:43:29	Bright	48.500	104	27Bet Lib	2.6140	13100.	97	11336	No
16	GOM_NL__2PRFIN20040501_004615_000000412026_00260_11336_2254.N1	01-MAY-2004 00:46:15	Bright	40.500	121	29Gam Vir	2.7400	7200.0	81	11336	No
17	GOM_NL__2PRFIN20040501_004936_000000382026_00260_11336_2255.N1	01-MAY-2004 00:49:36	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	11336	No
18	GOM_NL__2PRFIN20040501_005152_000000412026_00260_11336_2256.N1	01-MAY-2004 00:51:52	Bright	40.500	111	8Eta Boo	2.6800	6000.0	81	11336	No
19	GOM_NL__2PRFIN20040501_005533_000000462026_00260_11336_2257.N1	01-MAY-2004 00:55:33	Bright	46.000	83		2.3780	11000.	92	11336	No
20	GOM_NL__2PRFIN20040501_005719_000000382026_00260_11336_2258.N1	01-MAY-2004 00:57:19	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	11336	No
21	GOM_NL__2PRFIN20040501_010010_000000382026_00260_11336_2259.N1	01-MAY-2004 01:00:10	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	11336	No
22	GOM_NL__2PRFIN20040501_010152_000000412026_00260_11336_2260.N1	01-MAY-2004 01:01:52	Bright	40.500	87	64Gam UMa	2.4330	11000.	81	11336	No
23	GOM_NL__2PRFIN20040501_010316_000000422026_00260_11336_2261.N1	01-MAY-2004 01:03:16	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	11336	No
24	GOM_NL__2PRFIN20040501_010435_000000422026_00260_11336_2262.N1	01-MAY-2004 01:04:35	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	11336	No
25	GOM_NL__2PRFIN20040501_010818_000000422026_00260_11336_2263.N1	01-MAY-2004 01:08:18	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	11336	No
26	GOM_NL__2PRFIN20040501_011203_000000412026_00260_11336_2264.N1	01-MAY-2004 01:12:03	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	11336	No
27	GOM_NL__2PRFIN20040501_011828_000000592026_00260_11336_2265.N1	01-MAY-2004 01:18:28	Bright	58.500	89	5Alp Cep	2.4510	8000.0	117	11336	No
28	GOM_NL__2PRFIN20040501_012004_000000382026_00260_11336_2266.N1	01-MAY-2004 01:20:04	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	11336	No
29	GOM_NL__2PRFIN20040501_012121_000000372026_00260_11336_2267.N1	01-MAY-2004 01:21:21	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	11336	No
30	GOM_NL__2PRFIN20040501_012340_000000622026_00260_11336_2268.N1	01-MAY-2004 01:23:40	Bright	61.500	19	50Alp Cyg	1.2460	10500.	123	11336	No
31	GOM_NL__2PRFIN20040501_012537_000000792026_00260_11336_2269.N1	01-MAY-2004 01:25:37	Bright	78.500	66	37Gam Cyg	2.2080	5900.0	157	11336	No
32	GOM_NL__2PRFIN20040501_012915_000000842026_00260_11336_2270.N1	01-MAY-2004 01:29:15	Twilight	84.000	92	53Eps Cyg	2.5000	4500.0	168	11336	No
33	GOM_NL__2PRFIN20040501_013416_000000482026_00260_11336_2271.N1	01-MAY-2004 01:34:16	Twilight	47.500	90	54Alp Peg	2.4870	11000.	95	11336	No
34	GOM_NL__2PRFIN20040501_013837_000000722026_00260_11336_2272.N1	01-MAY-2004 01:38:37	Dark	71.500	61	8Eps Peg	2.1000	3900.0	143	11336	No
35	GOM_NL__2PRFIN20040501_014205_000000452026_00260_11336_2273.N1	01-MAY-2004 01:42:05	Dark	45.000	52	16Bet Cet	2.0370	4500.0	90	11336	No
36	GOM_NL__2PRFIN20040501_014448_000000612026_00260_11336_2274.N1	01-MAY-2004 01:44:48	Dark	60.500	154	22Bet Aqr	2.8990	5700.0	121	11336	No
37	GOM_NL__2PRFIN20040501_014705_000000522026_00260_11336_2275.N1	01-MAY-2004 01:47:05	Dark	52.000	18	24Alp PsA	1.1660	9700.0	104	11336	No
38	GOM_NL__2PRFIN20040501_015120_000000462026_00260_11336_2276.N1	01-MAY-2004 01:51:20	Dark	45.500	172	Gam Gru	3.0030	13100.	91	11336	No
39	GOM_NL__2PRFIN20040501_015249_000000442026_00260_11336_2277.N1	01-MAY-2004 01:52:49	Dark	44.000	31	Alp Gru	1.7340	15200.	88	11336	No
40	GOM_NL__2PRFIN20040501_015527_000000412026_00261_11337_2244.N1	01-MAY-2004 01:55:27	Dark	40.500	148	Alp Tuc	2.8780	4100.0	81	11337	No
41	GOM_NL__2PRFIN20040501_015820_000000422026_00261_11337_2245.N1	01-MAY-2004 01:58:20	Dark	42.000	45	Alp Pav	1.9400	26000.	84	11337	No
42	GOM_NL__2PRFIN20040501_020455_000000412026_00261_11337_2246.N1	01-MAY-2004 02:04:55	Straylight	40.500	43	Alp TrA	1.9100	4250.0	81	11337	No

456	GOM_NL__2PRFIN20040501_231703_000000832026_00273_11349_2102.N1	01-MAY-2004 23:17:03	Twilight	82.500	92	53Eps Cyg	2.5000	4500.0	165	11349	No
457	GOM_NL__2PRFIN20040501_232207_000000482026_00273_11349_2103.N1	01-MAY-2004 23:22:07	Twilight	48.000	90	54Alp Peg	2.4870	11000.	96	11349	No
458	GOM_NL__2PRFIN20040501_232635_000000782026_00273_11349_2104.N1	01-MAY-2004 23:26:35	Dark	77.500	61	8Eps Peg	2.1000	3900.0	155	11349	No
459	GOM_NL__2PRFIN20040501_232954_000000462026_00273_11349_2105.N1	01-MAY-2004 23:29:54	Dark	46.000	52	16Bet Cet	2.0370	4500.0	92	11349	No
460	GOM_NL__2PRFIN20040501_233252_000000652026_00273_11349_2106.N1	01-MAY-2004 23:32:52	Dark	64.500	154	22Bet Agr	2.8990	5700.0	129	11349	No
461	GOM_NL__2PRFIN20040501_233500_000000472026_00273_11349_2107.N1	01-MAY-2004 23:35:00	Dark	47.000	18	24Alp PsA	1.1660	9700.0	94	11349	No
462	GOM_NL__2PRFIN20040501_234047_000000422026_00273_11349_2108.N1	01-MAY-2004 23:40:47	Dark	42.000	31	Alp Gru	1.7340	15200.	84	11349	No
463	GOM_NL__2PRFIN20040501_234319_000000412026_00274_11350_2074.N1	01-MAY-2004 23:43:19	Dark	41.000	148	Alp Tuc	2.8780	4100.0	82	11350	No
464	GOM_NL__2PRFIN20040501_234617_000000422026_00274_11350_2075.N1	01-MAY-2004 23:46:17	Dark	41.500	45	Alp Pav	1.9400	26000.	83	11350	No
465	GOM_NL__2PRFIN20040501_235247_000000402026_00274_11350_2076.N1	01-MAY-2004 23:52:47	Straylight	40.000	43	Alp TrA	1.9100	4250.0	80	11350	No
466	GOM_NL__2PRFIN20040501_235500_000000392026_00274_11350_2077.N1	01-MAY-2004 23:55:00	Straylight	38.500	134	Bet TrA	2.8100	6600.0	77	11350	No
467	GOM_NL__2PRFIN20040501_235701_000000522026_00274_11350_2078.N1	01-MAY-2004 23:57:01	Straylight	52.000	4	Alp1Cen	-0.010000	5800.0	104	11350	No
468	GOM_NL__2PRFIN20040501_235831_000000442026_00274_11350_2079.N1	01-MAY-2004 23:58:31	Straylight	43.500	20	Bet Cru	1.2530	30000.	87	11350	No

3. Quality information per product

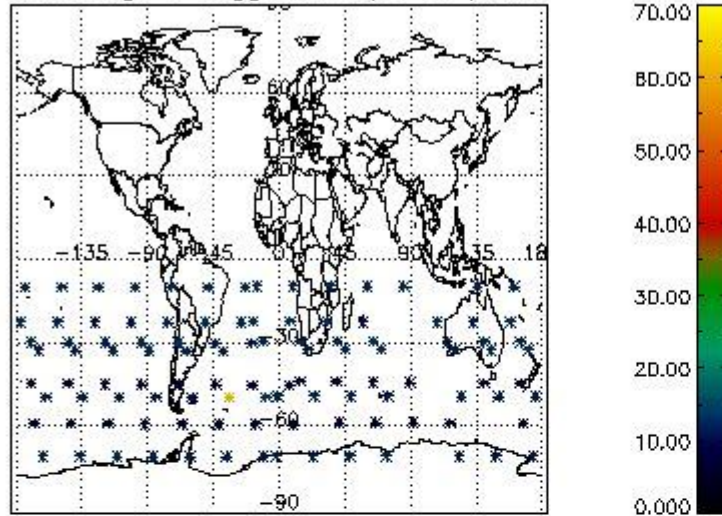
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

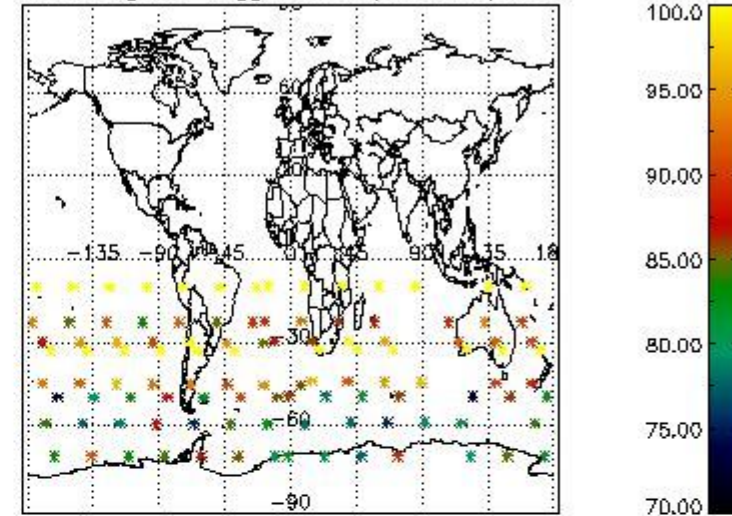


3.2 Plot quality information per product (world map)

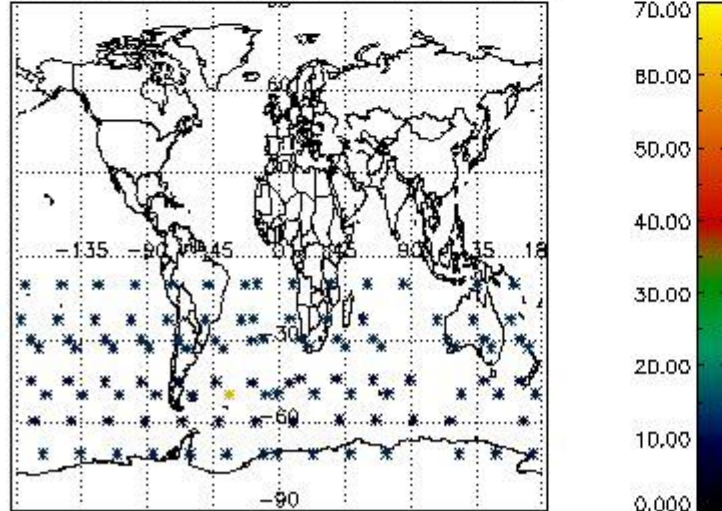
Percentage of flagged data per O3 profile



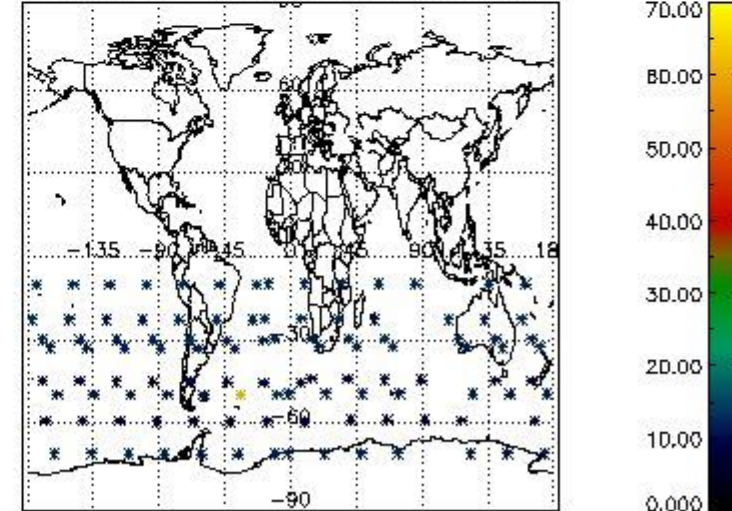
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

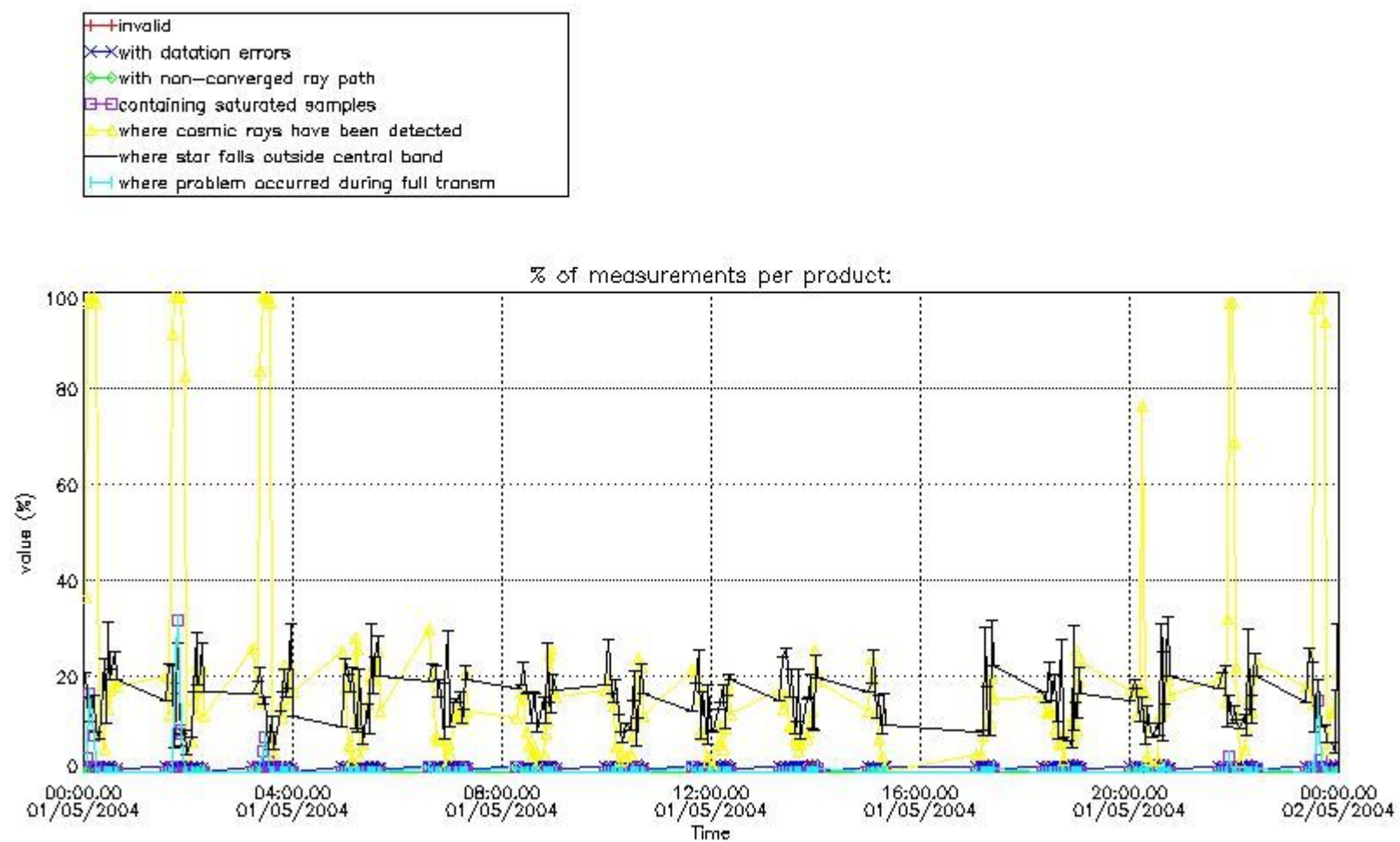


4. Level 1 quality information per product

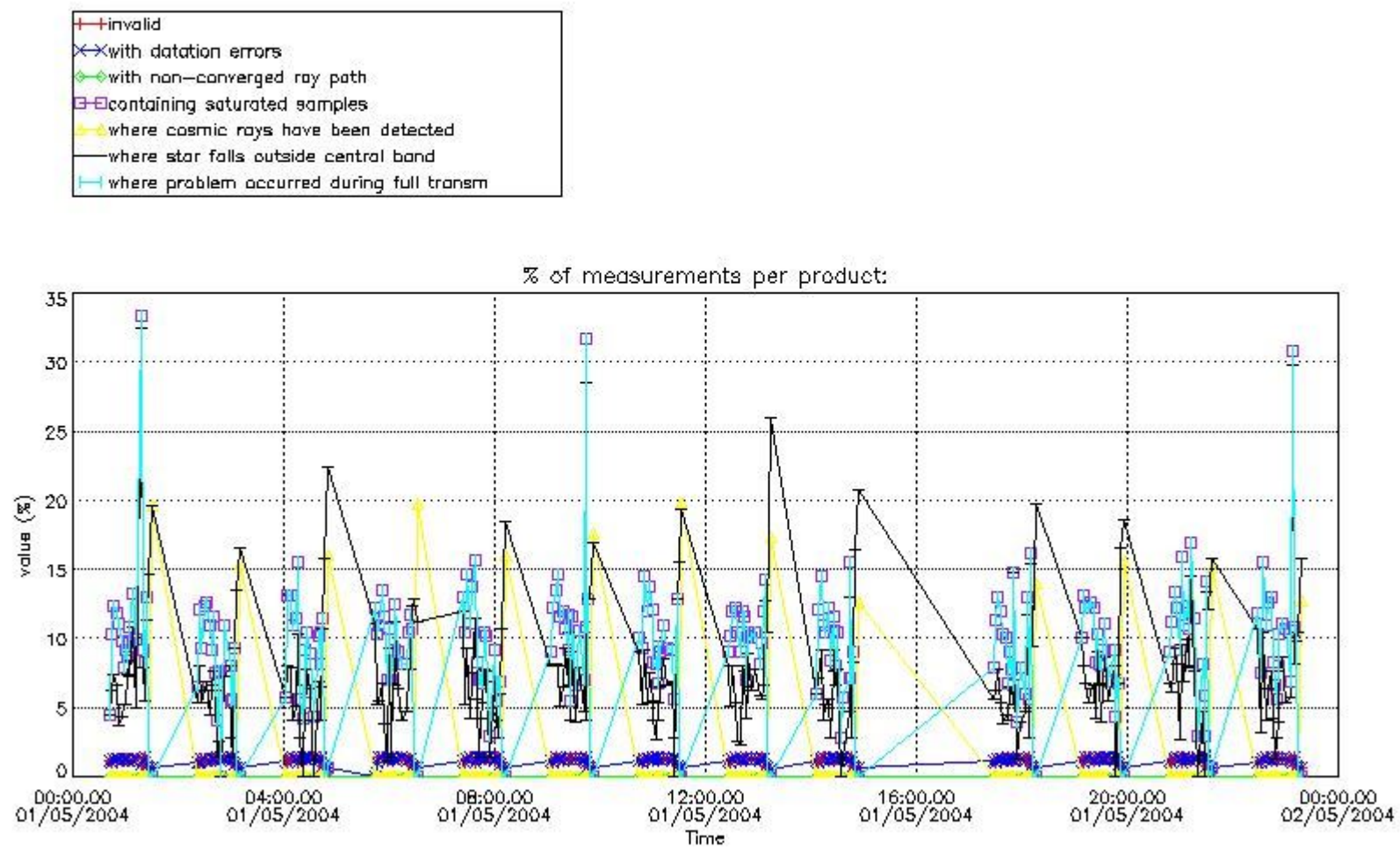
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



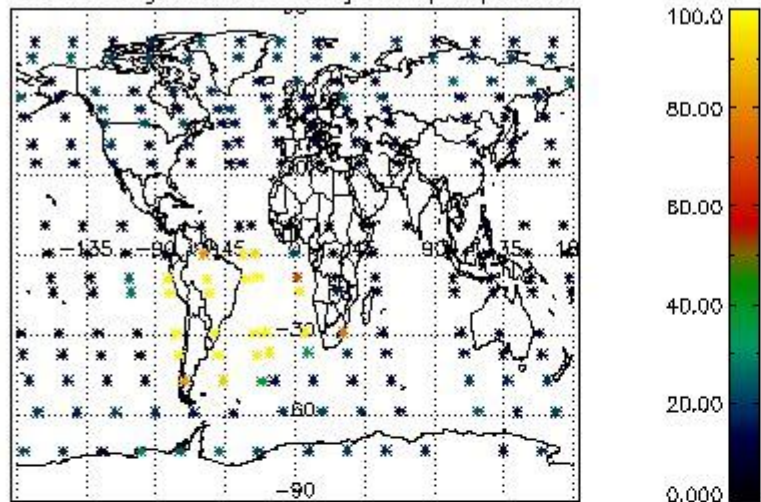
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



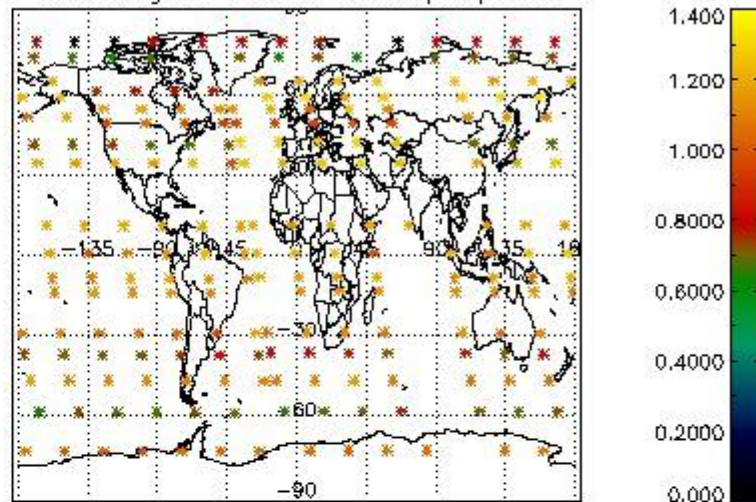
4.2 Plot quality information per product coming from level 1b processing (world map)

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

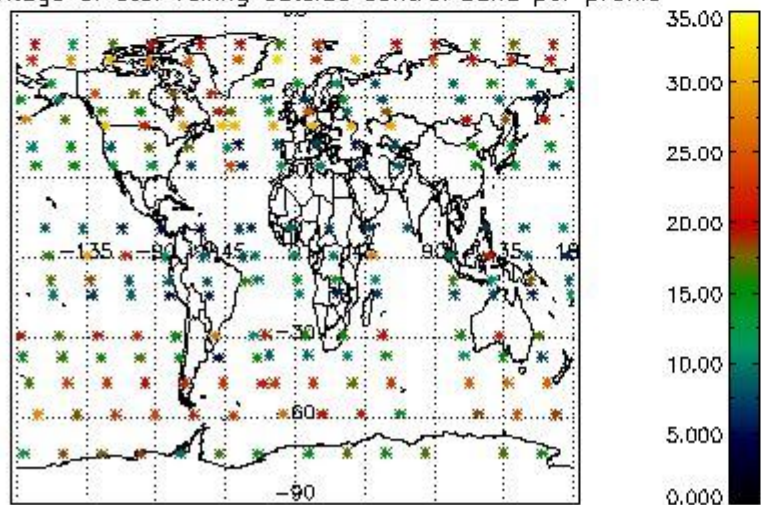
Percentage of cosmic ray hits per profile



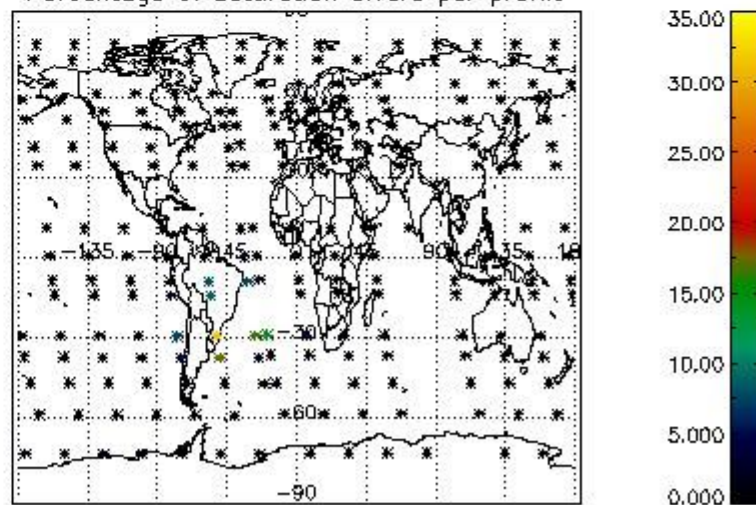
Percentage of datation errors per profile



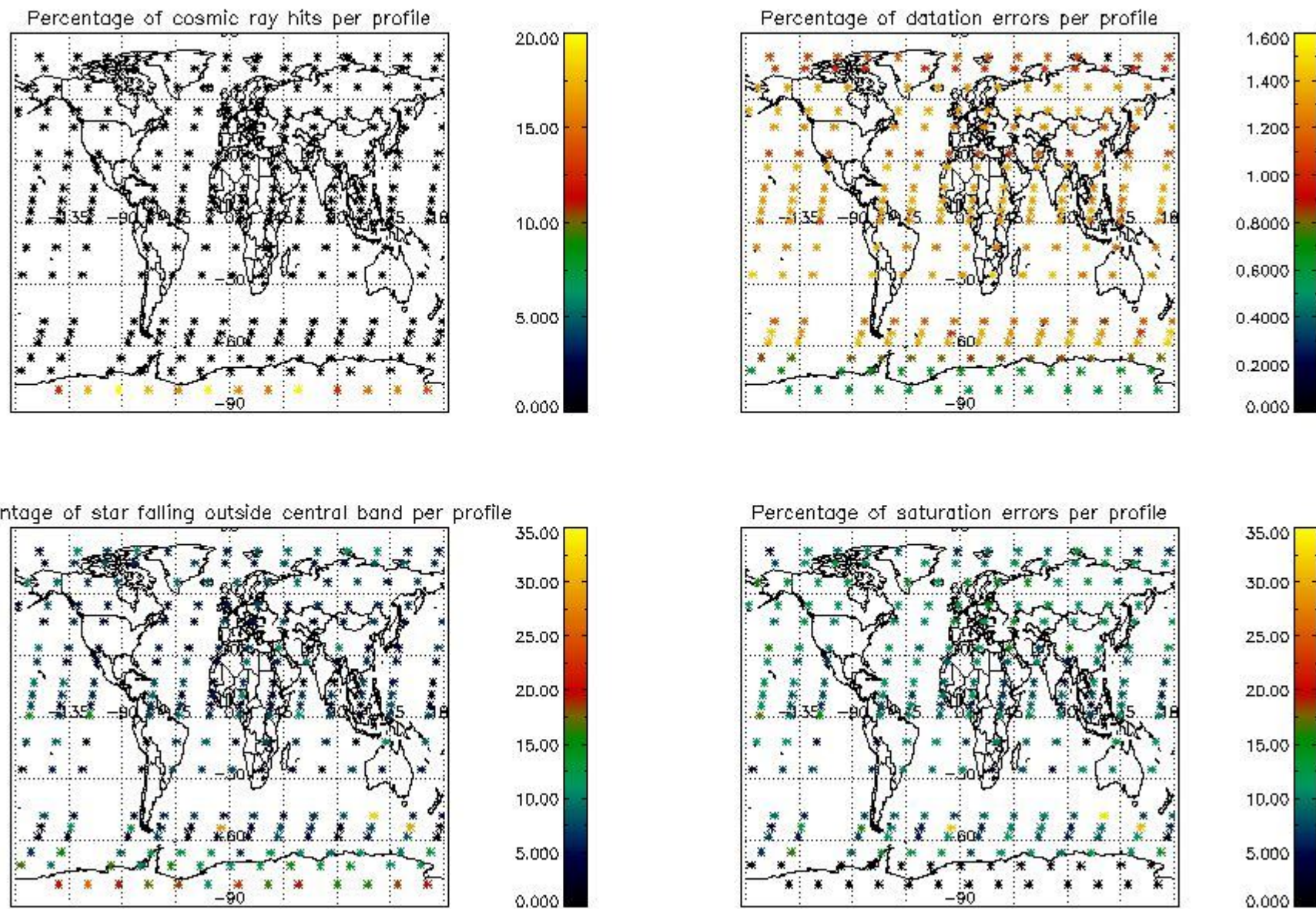
Percentage of star falling outside central band per profile



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

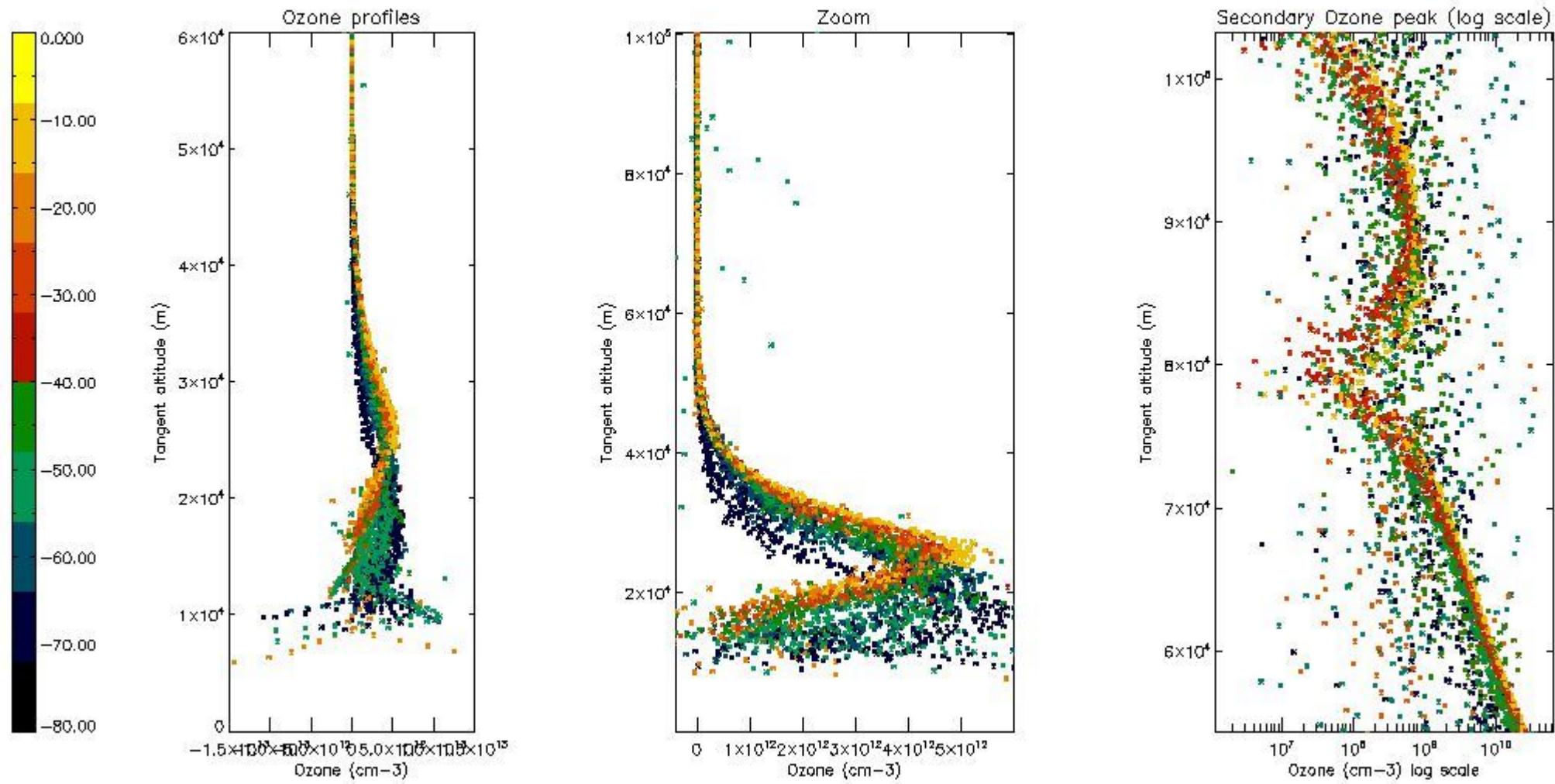
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	25
STD < 20	11

STD < 10	8
STD < 5	5

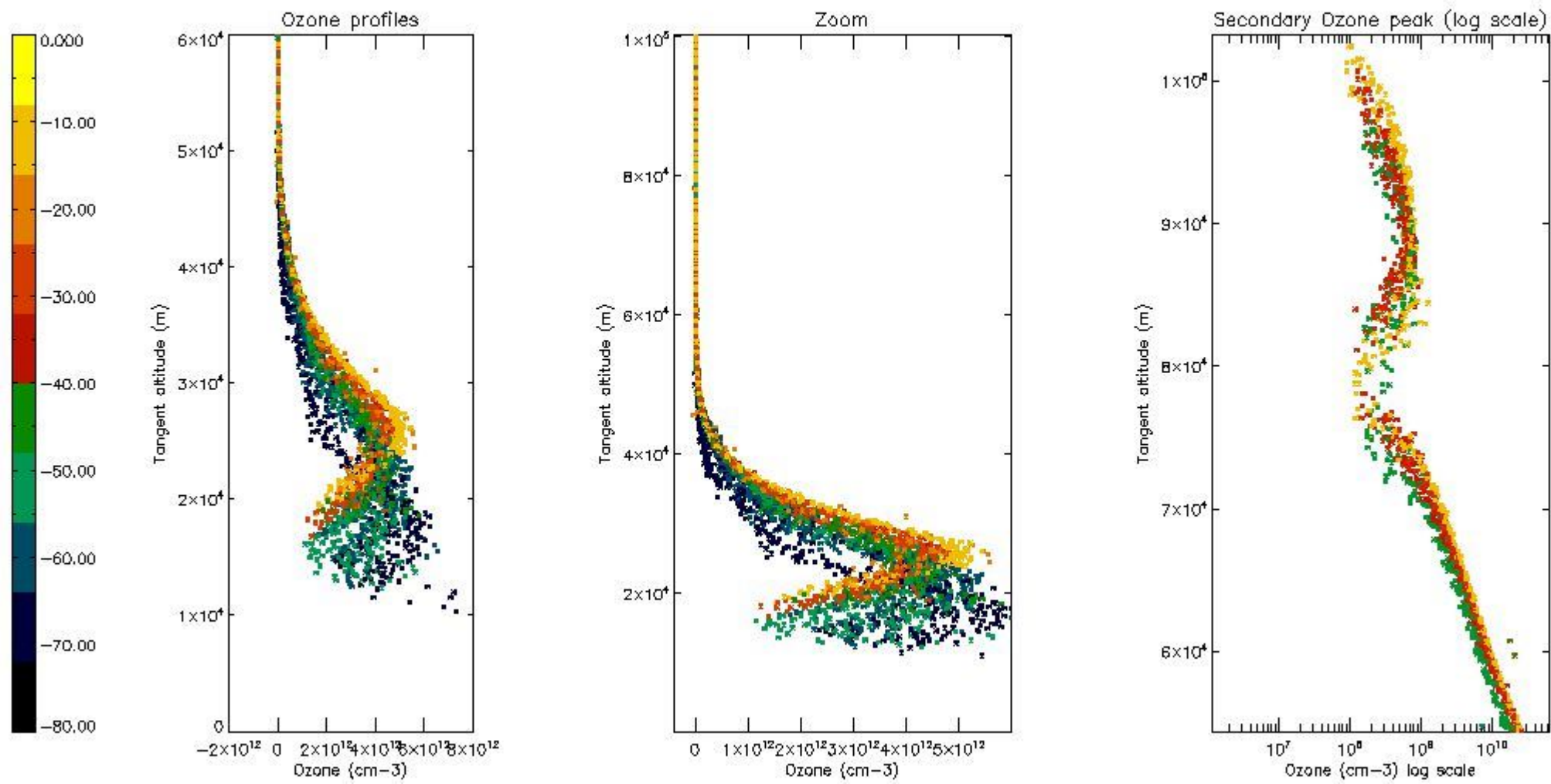
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



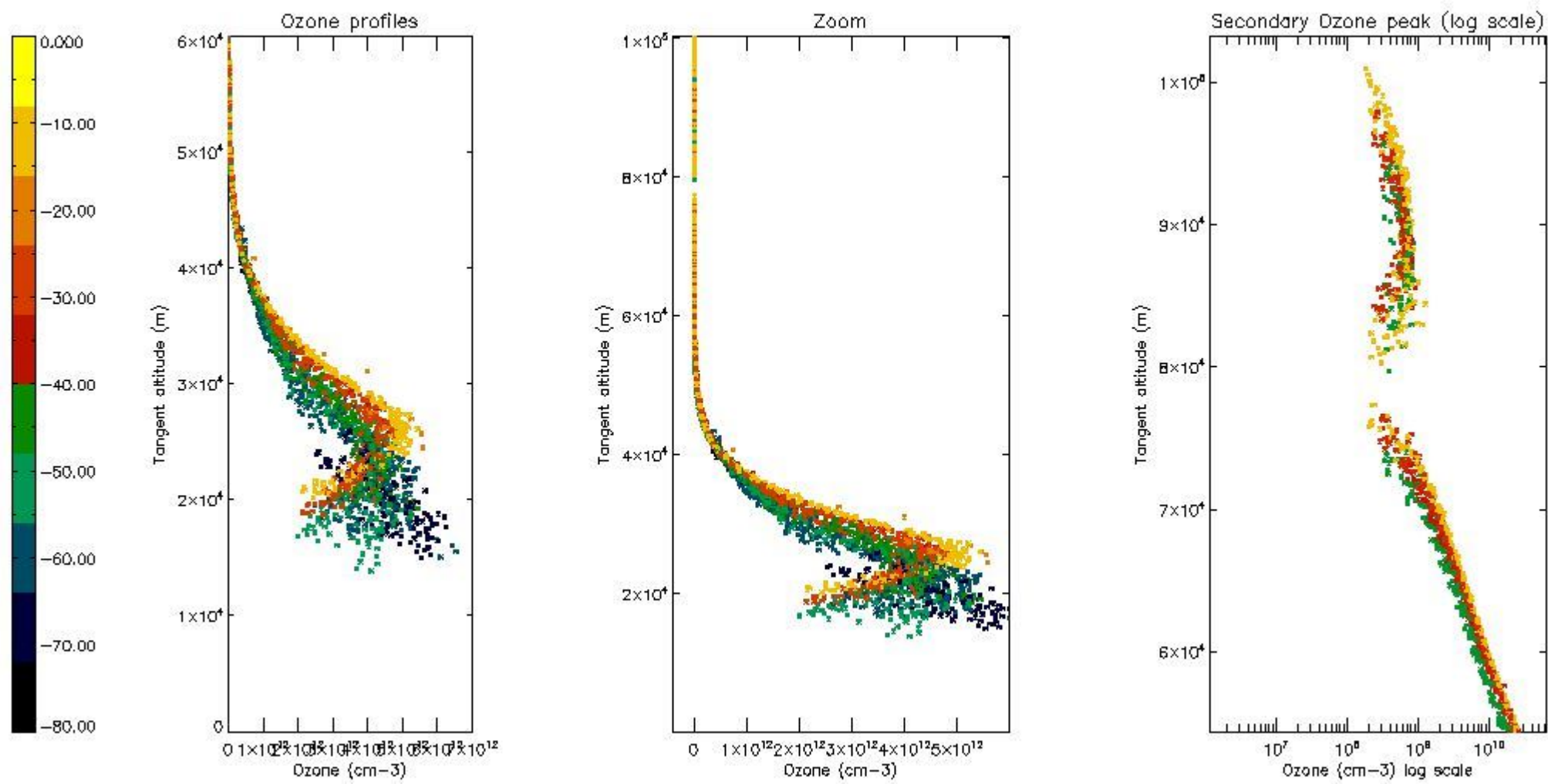
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



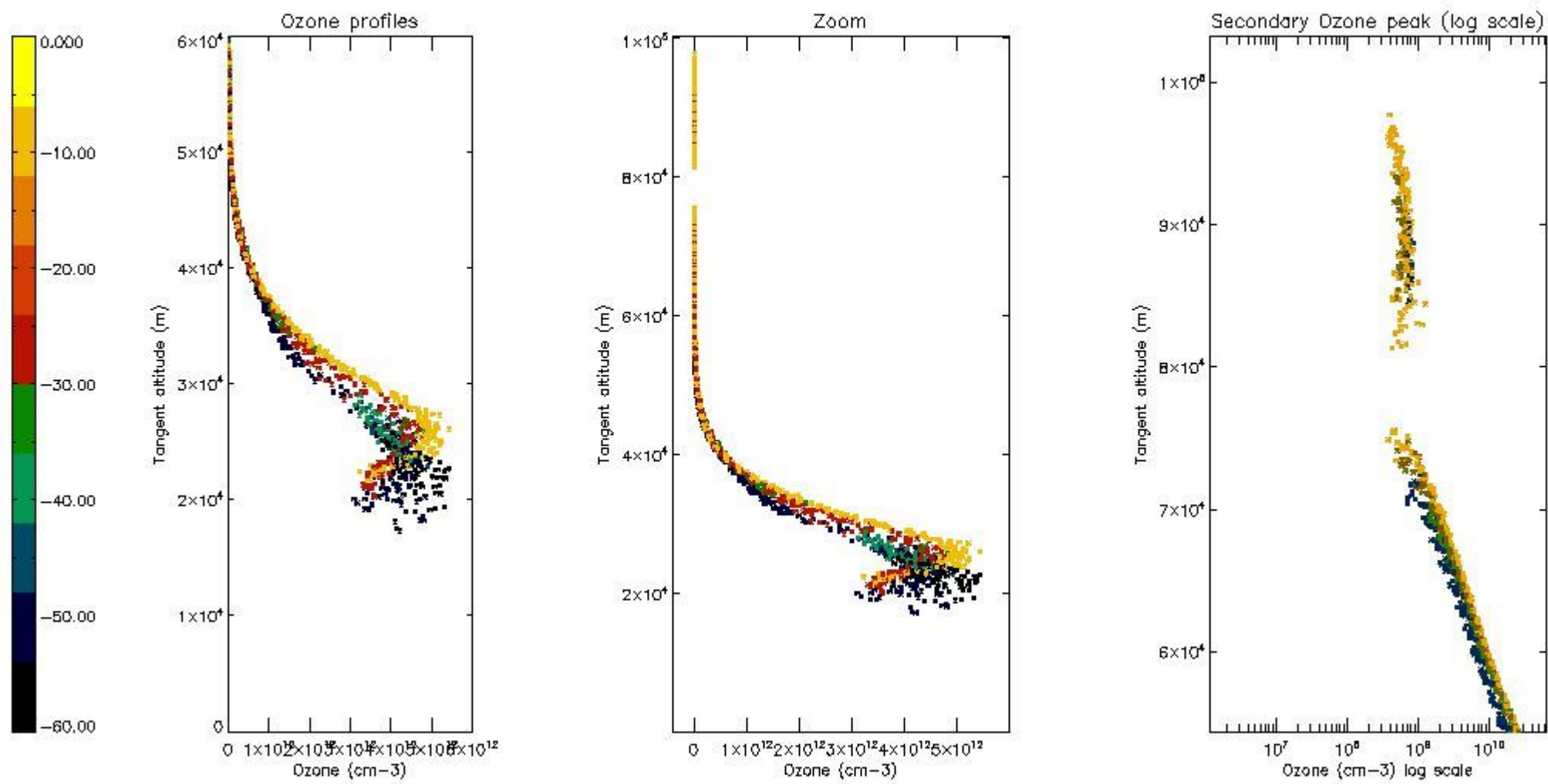
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



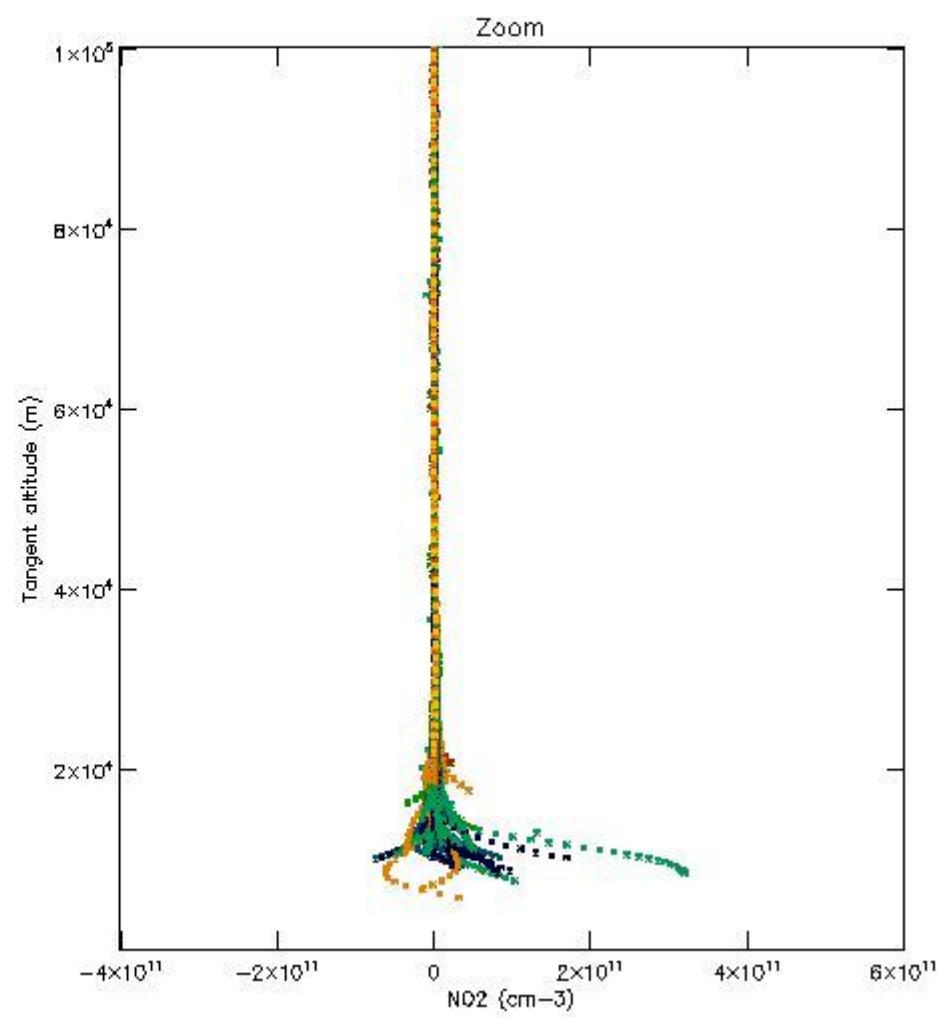
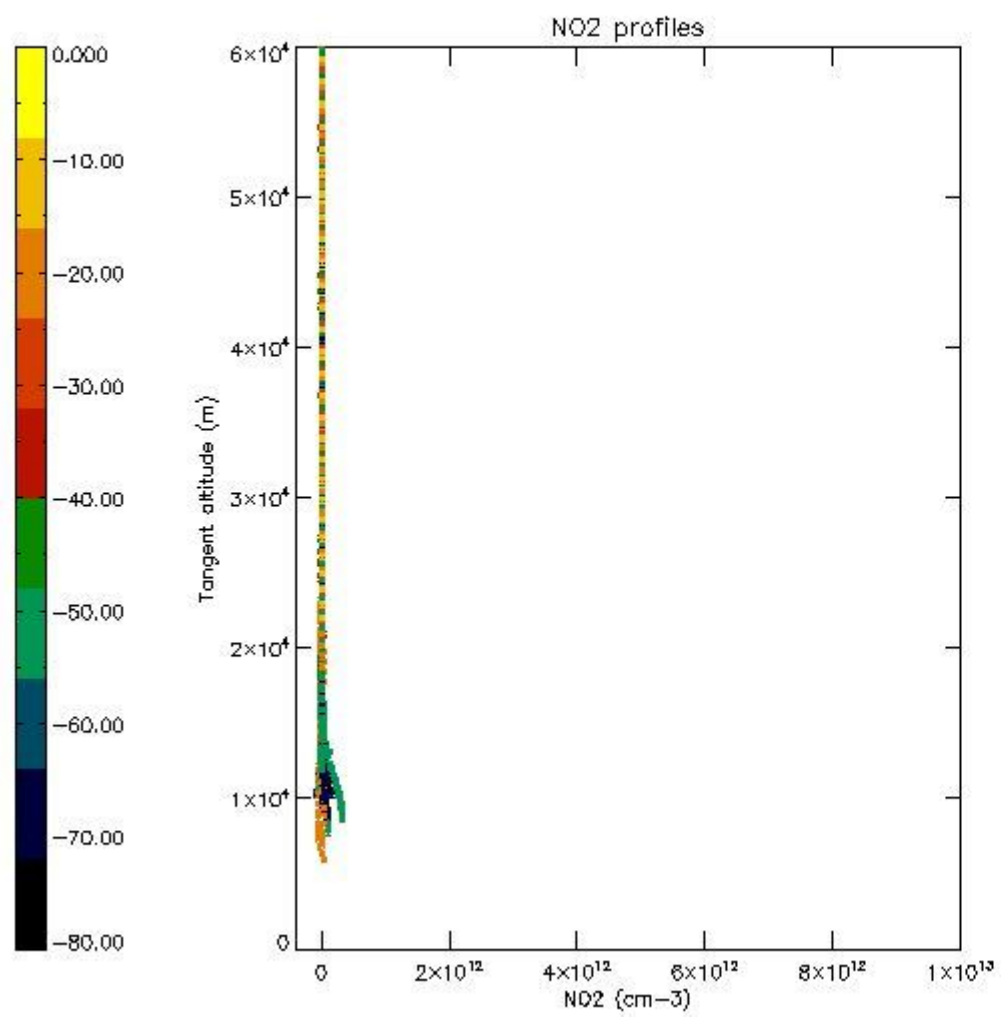
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



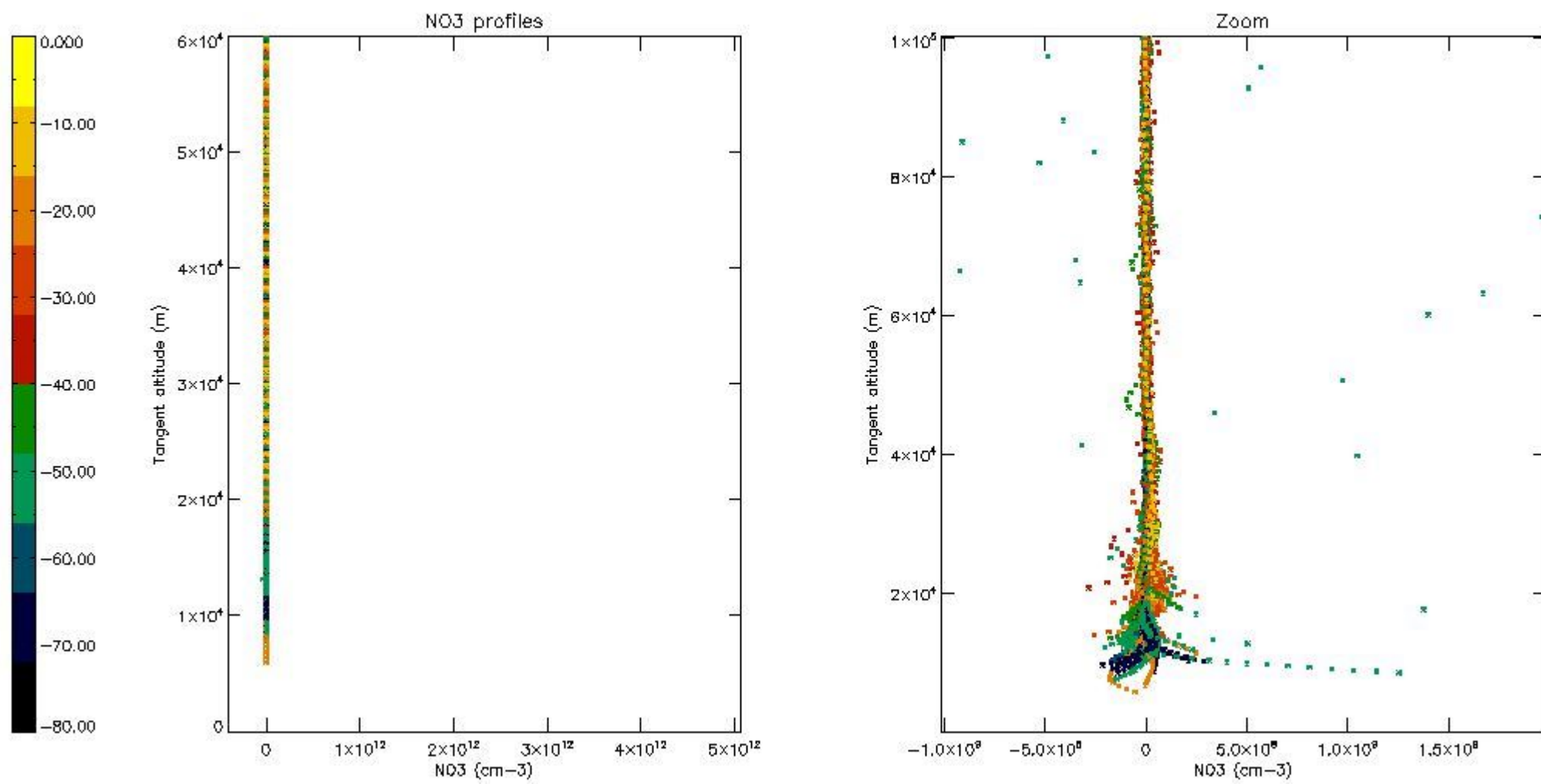
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



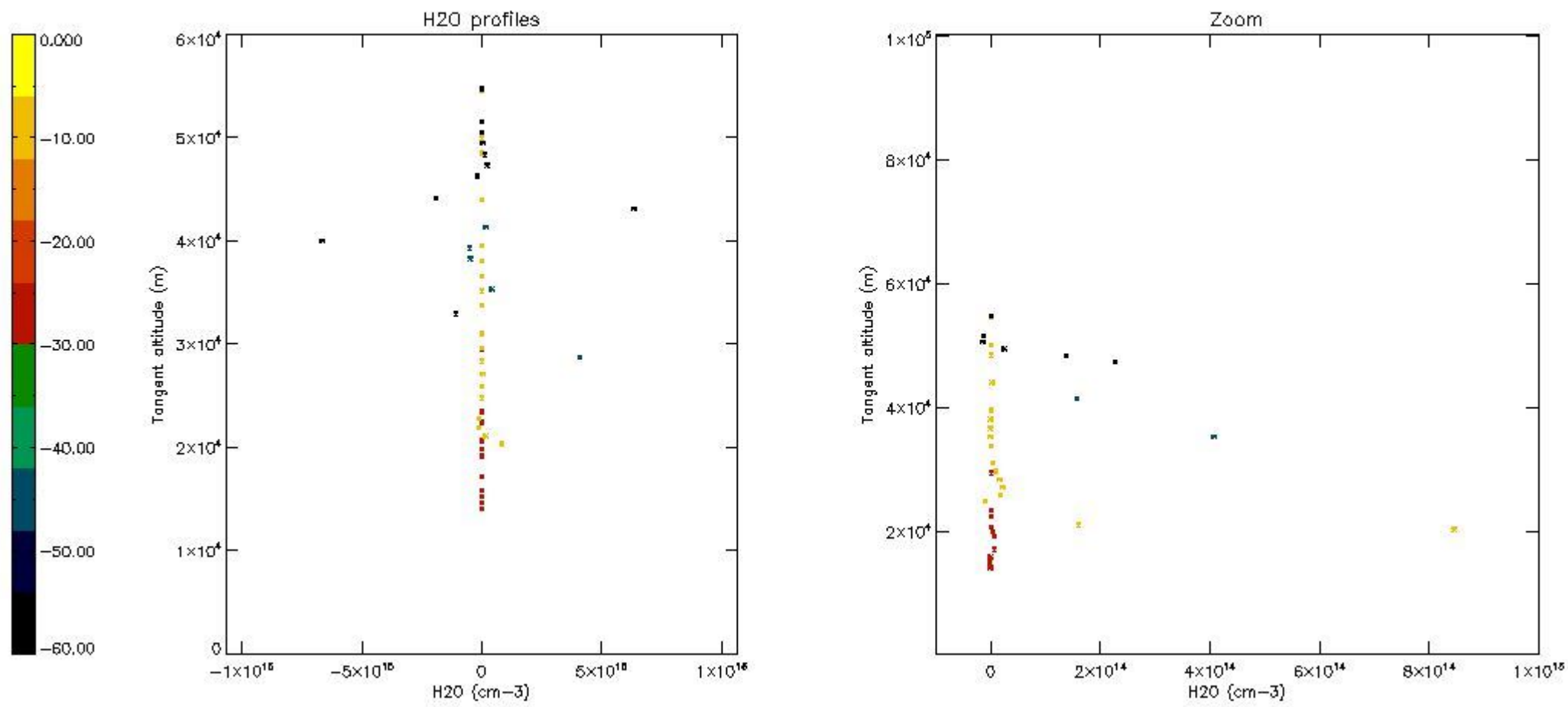
5.7 Plot NO3 profiles for all STD (dark without errors)

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	01-MAY-2004 00:01:29
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	01-MAY-2004 00:01:29
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	01-MAY-2004 00:01:29

GOMOS Level 2 Daily Report

SUMMARY

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[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

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

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

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

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

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

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

[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

[5.1 Ozone statistics based on quality of products](#)

[5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

[5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

[5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

[5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

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

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

This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P).
It is intended to monitor some important parameters that will impact the quality of these products.
A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	19APR2013 01:04:38
Data source version	GOMOS/6.01
Start time of products	01-05-2004 (01MAY2004 00:00:00)
Stop time of products	02-05-2004 (02MAY2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	468
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

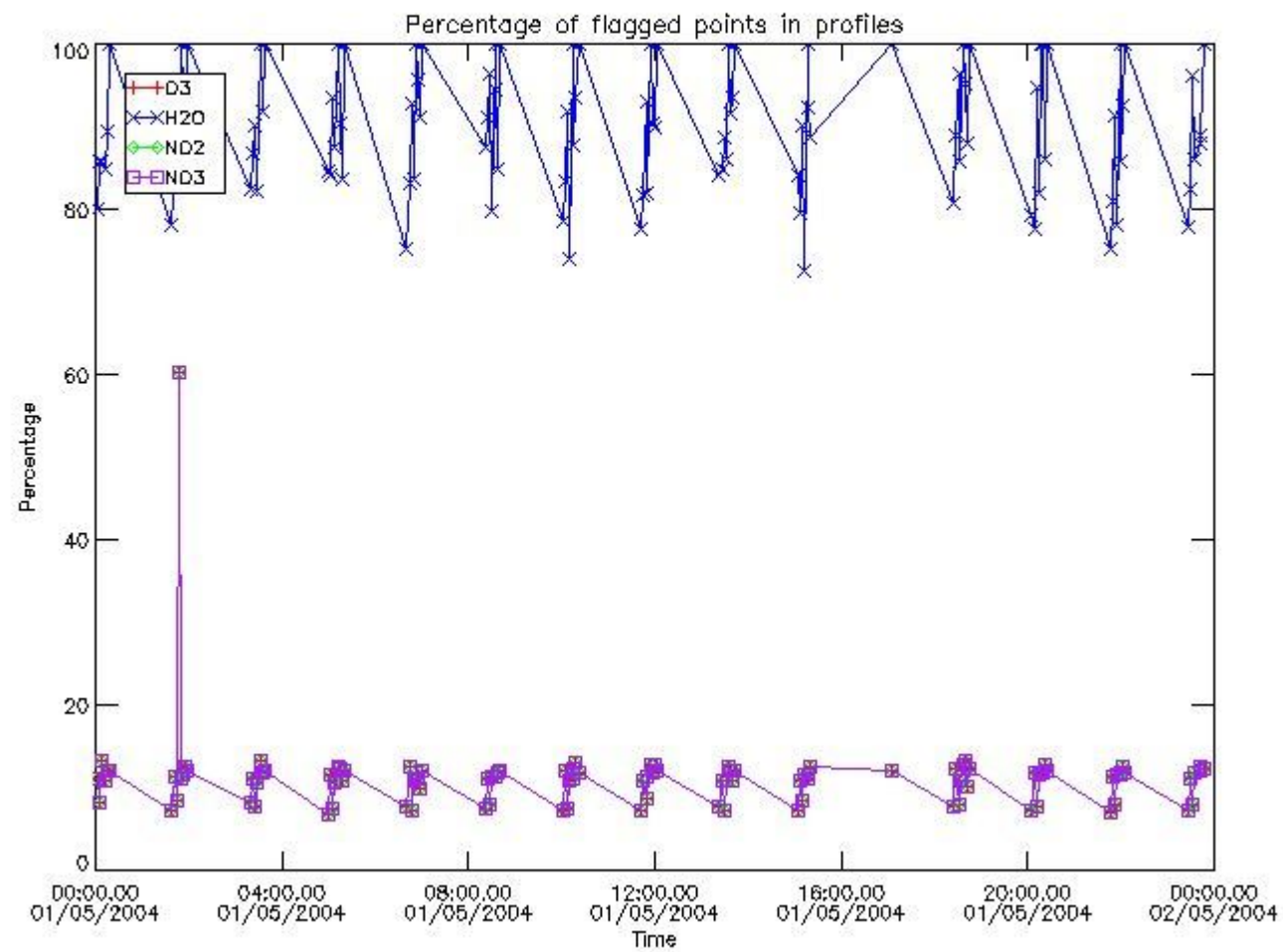
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20040501_000129_000000462026_00259_11335_2266.N1	01-MAY-2004 00:01:29	Dark	45.500	52	16Bet Cet	2.0370	4500.0	91	11335	No
2	GOM_NL__2PRFIN20040501_000411_000000682026_00259_11335_2267.N1	01-MAY-2004 00:04:11	Dark	67.500	154	22Bet Aqr	2.8990	5700.0	135	11335	No
3	GOM_NL__2PRFIN20040501_000629_000000432026_00259_11335_2268.N1	01-MAY-2004 00:06:29	Dark	42.500	18	24Alp PsA	1.1660	9700.0	85	11335	No
4	GOM_NL__2PRFIN20040501_001215_000000472026_00259_11335_2269.N1	01-MAY-2004 00:12:15	Dark	46.500	31	Alp Gru	1.7340	15200.	93	11335	No
5	GOM_NL__2PRFIN20040501_001449_000000432026_00260_11336_2243.N1	01-MAY-2004 00:14:49	Dark	42.500	148	Alp Tuc	2.8780	4100.0	85	11336	No
6	GOM_NL__2PRFIN20040501_001745_000000432026_00260_11336_2244.N1	01-MAY-2004 00:17:45	Dark	42.500	45	Alp Pav	1.9400	26000.	85	11336	No
7	GOM_NL__2PRFIN20040501_002417_000000512026_00260_11336_2245.N1	01-MAY-2004 00:24:17	Straylight	51.000	43	Alp TrA	1.9100	4250.0	102	11336	No
8	GOM_NL__2PRFIN20040501_002615_000000702026_00260_11336_2246.N1	01-MAY-2004 00:26:15	Straylight	69.500	38	20Eps Sgr	1.8360	11000.	139	11336	No
9	GOM_NL__2PRFIN20040501_002834_000000532026_00260_11336_2247.N1	01-MAY-2004 00:28:34	Straylight	53.000	4	Alp1Cen	-0.010000	5800.0	106	11336	No
10	GOM_NL__2PRFIN20040501_003006_000000442026_00260_11336_2248.N1	01-MAY-2004 00:30:06	Straylight	44.000	20	Bet Cru	1.2530	30000.	88	11336	No
11	GOM_NL__2PRFIN20040501_003204_000000652026_00260_11336_2249.N1	01-MAY-2004 00:32:04	Straylight	65.000	75	26Eps Sco	2.2910	4250.0	130	11336	No
12	GOM_NL__2PRFIN20040501_003549_000000722026_00260_11336_2250.N1	01-MAY-2004 00:35:49	Twilight	72.000	16	21Alp Sco	1.0200	3000.0	144	11336	No
13	GOM_NL__2PRFIN20040501_003803_000000622026_00260_11336_2251.N1	01-MAY-2004 00:38:03	Twilight	62.000	80	7Del Sco	2.3160	30000.	124	11336	No
14	GOM_NL__2PRFIN20040501_004109_000000462026_00260_11336_2252.N1	01-MAY-2004 00:41:09	Bright	45.500	122	9Alp2Lib	2.7470	9700.0	91	11336	No
15	GOM_NL__2PRFIN20040501_004329_000000492026_00260_11336_2253.N1	01-MAY-2004 00:43:29	Bright	48.500	104	27Bet Lib	2.6140	13100.	97	11336	No
16	GOM_NL__2PRFIN20040501_004615_000000412026_00260_11336_2254.N1	01-MAY-2004 00:46:15	Bright	40.500	121	29Gam Vir	2.7400	7200.0	81	11336	No
17	GOM_NL__2PRFIN20040501_004936_000000382026_00260_11336_2255.N1	01-MAY-2004 00:49:36	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	11336	No
18	GOM_NL__2PRFIN20040501_005152_000000412026_00260_11336_2256.N1	01-MAY-2004 00:51:52	Bright	40.500	111	8Eta Boo	2.6800	6000.0	81	11336	No
19	GOM_NL__2PRFIN20040501_005533_000000462026_00260_11336_2257.N1	01-MAY-2004 00:55:33	Bright	46.000	83		2.3780	11000.	92	11336	No
20	GOM_NL__2PRFIN20040501_005719_000000382026_00260_11336_2258.N1	01-MAY-2004 00:57:19	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	11336	No
21	GOM_NL__2PRFIN20040501_010010_000000382026_00260_11336_2259.N1	01-MAY-2004 01:00:10	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	11336	No
22	GOM_NL__2PRFIN20040501_010152_000000412026_00260_11336_2260.N1	01-MAY-2004 01:01:52	Bright	40.500	87	64Gam UMa	2.4330	11000.	81	11336	No
23	GOM_NL__2PRFIN20040501_010316_000000422026_00260_11336_2261.N1	01-MAY-2004 01:03:16	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	11336	No
24	GOM_NL__2PRFIN20040501_010435_000000422026_00260_11336_2262.N1	01-MAY-2004 01:04:35	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	11336	No
25	GOM_NL__2PRFIN20040501_010818_000000422026_00260_11336_2263.N1	01-MAY-2004 01:08:18	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	11336	No
26	GOM_NL__2PRFIN20040501_011203_000000412026_00260_11336_2264.N1	01-MAY-2004 01:12:03	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	11336	No
27	GOM_NL__2PRFIN20040501_011828_000000592026_00260_11336_2265.N1	01-MAY-2004 01:18:28	Bright	58.500	89	5Alp Cep	2.4510	8000.0	117	11336	No
28	GOM_NL__2PRFIN20040501_012004_000000382026_00260_11336_2266.N1	01-MAY-2004 01:20:04	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	11336	No
29	GOM_NL__2PRFIN20040501_012121_000000372026_00260_11336_2267.N1	01-MAY-2004 01:21:21	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	11336	No
30	GOM_NL__2PRFIN20040501_012340_000000622026_00260_11336_2268.N1	01-MAY-2004 01:23:40	Bright	61.500	19	50Alp Cyg	1.2460	10500.	123	11336	No
31	GOM_NL__2PRFIN20040501_012537_000000792026_00260_11336_2269.N1	01-MAY-2004 01:25:37	Bright	78.500	66	37Gam Cyg	2.2080	5900.0	157	11336	No
32	GOM_NL__2PRFIN20040501_012915_000000842026_00260_11336_2270.N1	01-MAY-2004 01:29:15	Twilight	84.000	92	53Eps Cyg	2.5000	4500.0	168	11336	No
33	GOM_NL__2PRFIN20040501_013416_000000482026_00260_11336_2271.N1	01-MAY-2004 01:34:16	Twilight	47.500	90	54Alp Peg	2.4870	11000.	95	11336	No
34	GOM_NL__2PRFIN20040501_013837_000000722026_00260_11336_2272.N1	01-MAY-2004 01:38:37	Dark	71.500	61	8Eps Peg	2.1000	3900.0	143	11336	No
35	GOM_NL__2PRFIN20040501_014205_000000452026_00260_11336_2273.N1	01-MAY-2004 01:42:05	Dark	45.000	52	16Bet Cet	2.0370	4500.0	90	11336	No
36	GOM_NL__2PRFIN20040501_014448_000000612026_00260_11336_2274.N1	01-MAY-2004 01:44:48	Dark	60.500	154	22Bet Aqr	2.8990	5700.0	121	11336	No
37	GOM_NL__2PRFIN20040501_014705_000000522026_00260_11336_2275.N1	01-MAY-2004 01:47:05	Dark	52.000	18	24Alp PsA	1.1660	9700.0	104	11336	No
38	GOM_NL__2PRFIN20040501_015120_000000462026_00260_11336_2276.N1	01-MAY-2004 01:51:20	Dark	45.500	172	Gam Gru	3.0030	13100.	91	11336	No
39	GOM_NL__2PRFIN20040501_015249_000000442026_00260_11336_2277.N1	01-MAY-2004 01:52:49	Dark	44.000	31	Alp Gru	1.7340	15200.	88	11336	No
40	GOM_NL__2PRFIN20040501_015527_000000412026_00261_11337_2244.N1	01-MAY-2004 01:55:27	Dark	40.500	148	Alp Tuc	2.8780	4100.0	81	11337	No
41	GOM_NL__2PRFIN20040501_015820_000000422026_00261_11337_2245.N1	01-MAY-2004 01:58:20	Dark	42.000	45	Alp Pav	1.9400	26000.	84	11337	No
42	GOM_NL__2PRFIN20040501_020455_000000412026_00261_11337_2246.N1	01-MAY-2004 02:04:55	Straylight	40.500	43	Alp TrA	1.9100	4250.0	81	11337	No

456	GOM_NL__2PRFIN20040501_231703_000000832026_00273_11349_2102.N1	01-MAY-2004 23:17:03	Twilight	82.500	92	53Eps Cyg	2.5000	4500.0	165	11349	No
457	GOM_NL__2PRFIN20040501_232207_000000482026_00273_11349_2103.N1	01-MAY-2004 23:22:07	Twilight	48.000	90	54Alp Peg	2.4870	11000.	96	11349	No
458	GOM_NL__2PRFIN20040501_232635_000000782026_00273_11349_2104.N1	01-MAY-2004 23:26:35	Dark	77.500	61	8Eps Peg	2.1000	3900.0	155	11349	No
459	GOM_NL__2PRFIN20040501_232954_000000462026_00273_11349_2105.N1	01-MAY-2004 23:29:54	Dark	46.000	52	16Bet Cet	2.0370	4500.0	92	11349	No
460	GOM_NL__2PRFIN20040501_233252_000000652026_00273_11349_2106.N1	01-MAY-2004 23:32:52	Dark	64.500	154	22Bet Agr	2.8990	5700.0	129	11349	No
461	GOM_NL__2PRFIN20040501_233500_000000472026_00273_11349_2107.N1	01-MAY-2004 23:35:00	Dark	47.000	18	24Alp PsA	1.1660	9700.0	94	11349	No
462	GOM_NL__2PRFIN20040501_234047_000000422026_00273_11349_2108.N1	01-MAY-2004 23:40:47	Dark	42.000	31	Alp Gru	1.7340	15200.	84	11349	No
463	GOM_NL__2PRFIN20040501_234319_000000412026_00274_11350_2074.N1	01-MAY-2004 23:43:19	Dark	41.000	148	Alp Tuc	2.8780	4100.0	82	11350	No
464	GOM_NL__2PRFIN20040501_234617_000000422026_00274_11350_2075.N1	01-MAY-2004 23:46:17	Dark	41.500	45	Alp Pav	1.9400	26000.	83	11350	No
465	GOM_NL__2PRFIN20040501_235247_000000402026_00274_11350_2076.N1	01-MAY-2004 23:52:47	Straylight	40.000	43	Alp TrA	1.9100	4250.0	80	11350	No
466	GOM_NL__2PRFIN20040501_235500_000000392026_00274_11350_2077.N1	01-MAY-2004 23:55:00	Straylight	38.500	134	Bet TrA	2.8100	6600.0	77	11350	No
467	GOM_NL__2PRFIN20040501_235701_000000522026_00274_11350_2078.N1	01-MAY-2004 23:57:01	Straylight	52.000	4	Alp1Cen	-0.010000	5800.0	104	11350	No
468	GOM_NL__2PRFIN20040501_235831_000000442026_00274_11350_2079.N1	01-MAY-2004 23:58:31	Straylight	43.500	20	Bet Cru	1.2530	30000.	87	11350	No

3. Quality information per product

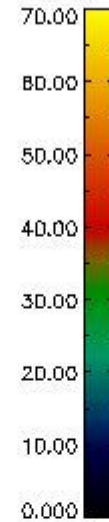
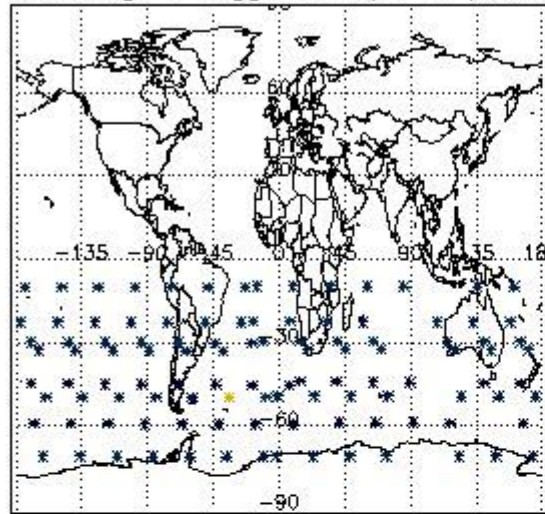
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

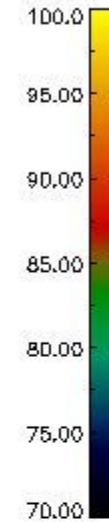
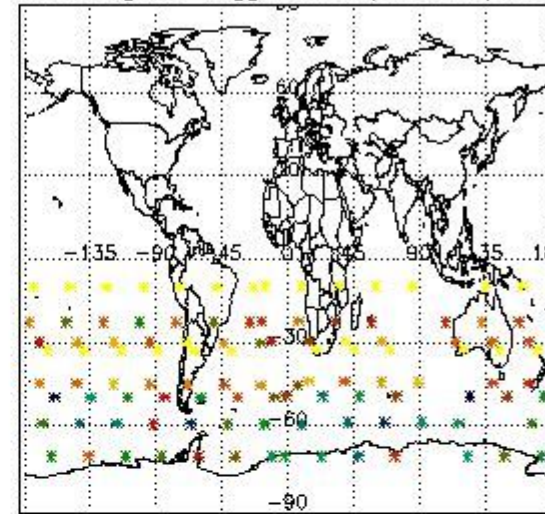


3.2 Plot quality information per product (world map)

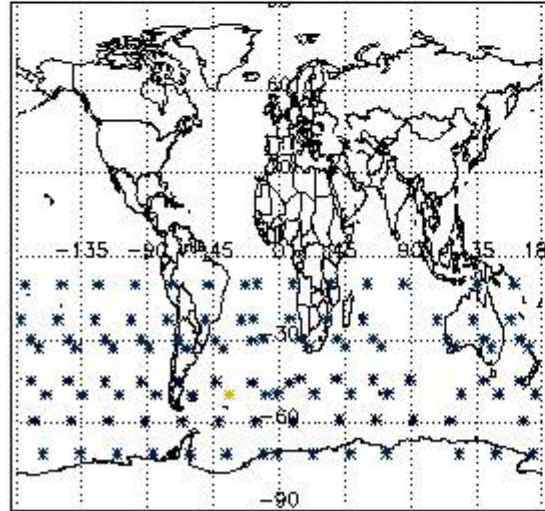
Percentage of flagged data per O3 profile



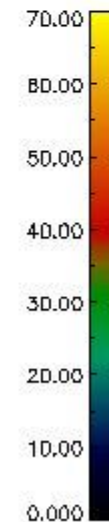
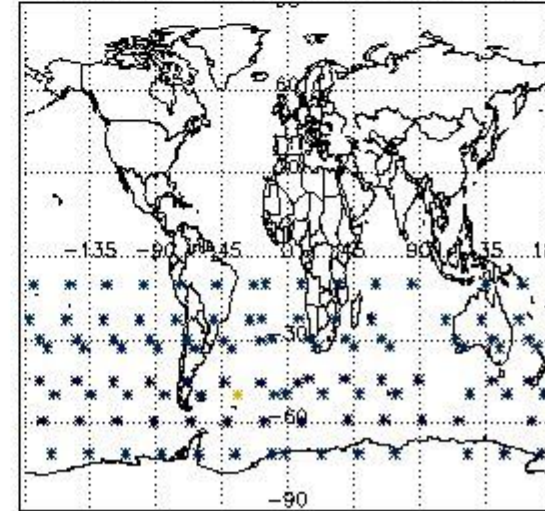
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

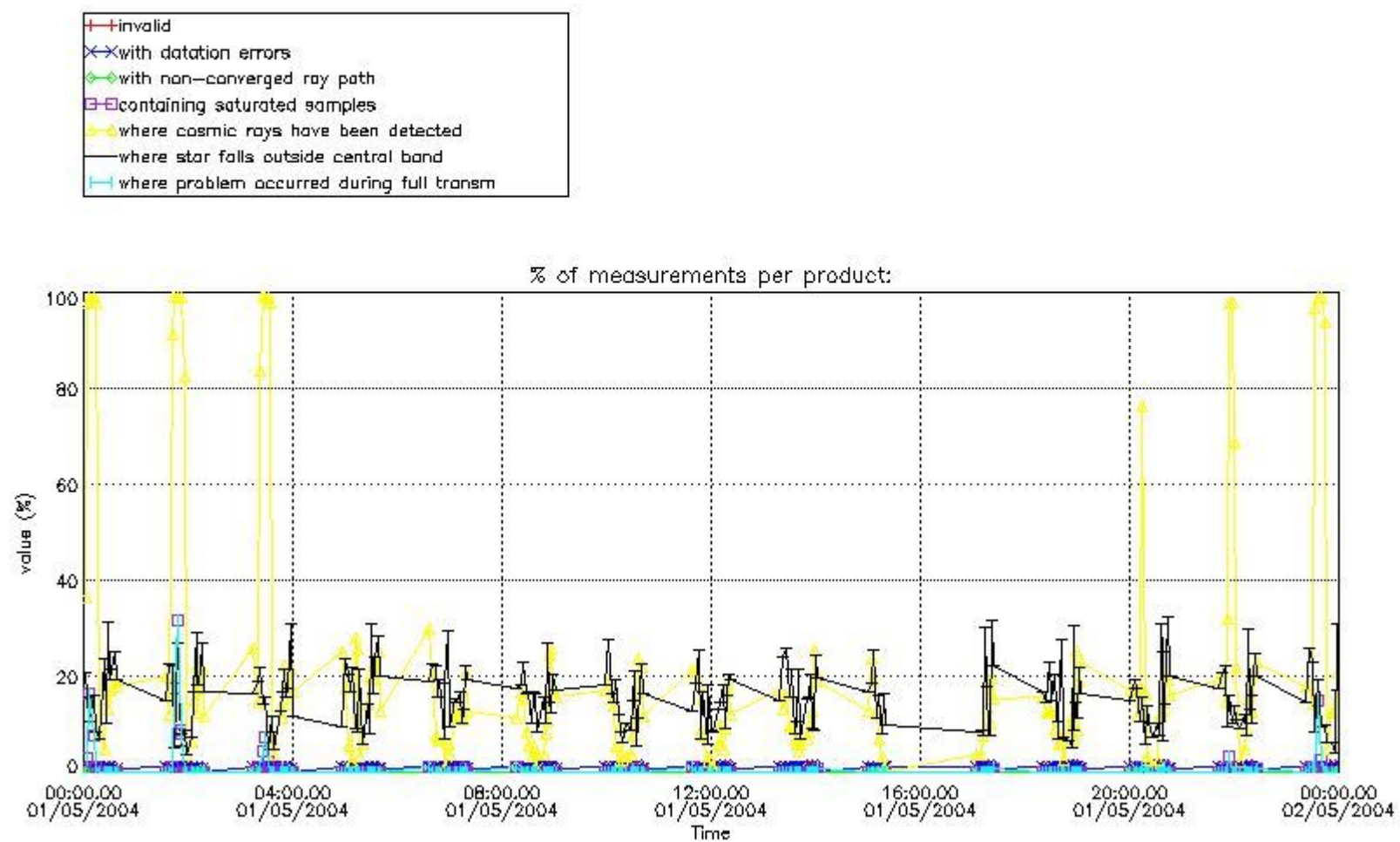


4. Level 1 quality information per product

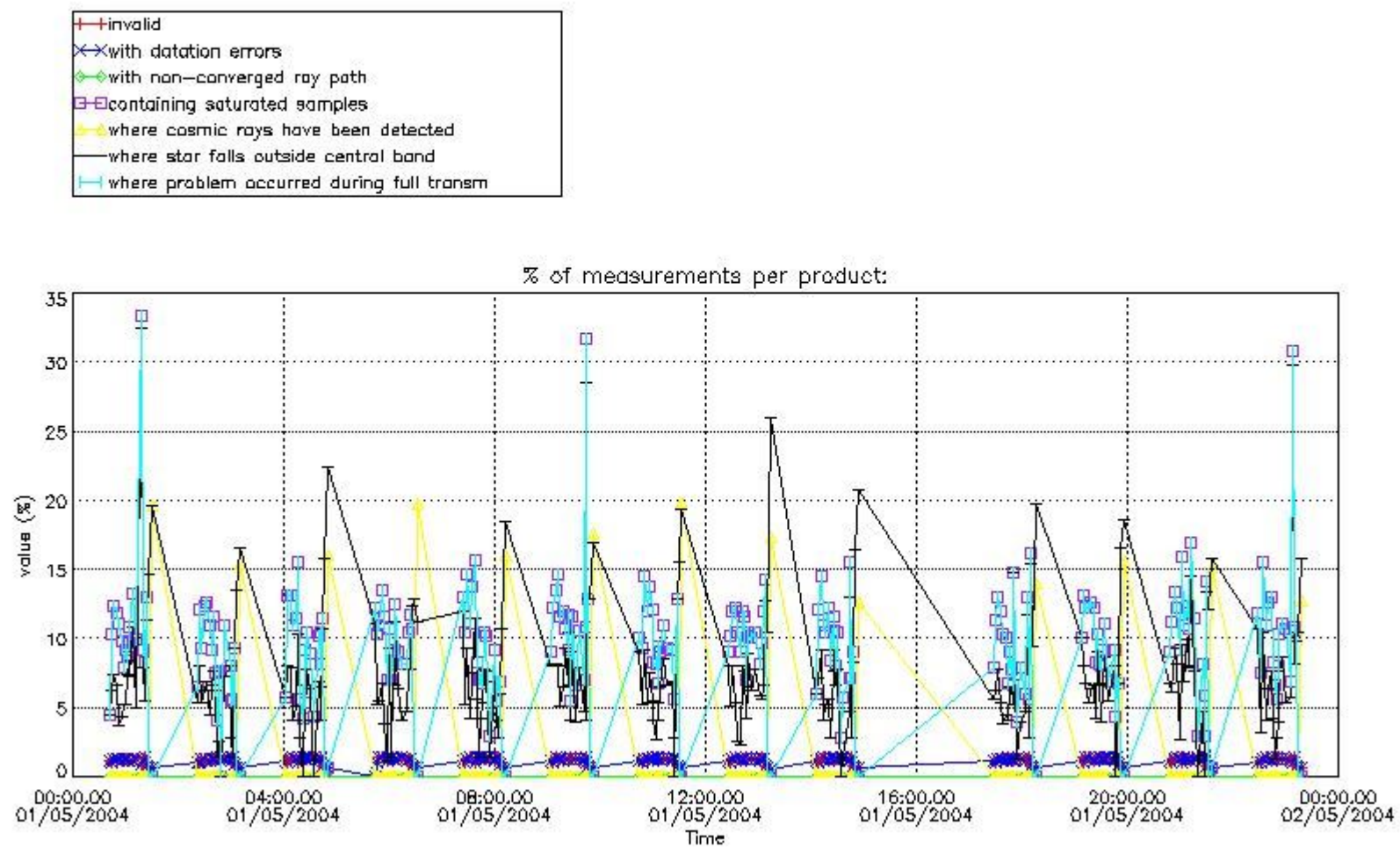
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



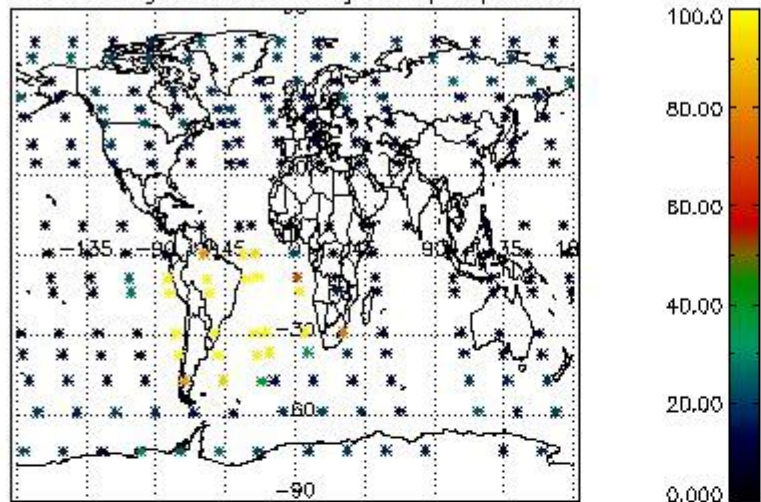
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



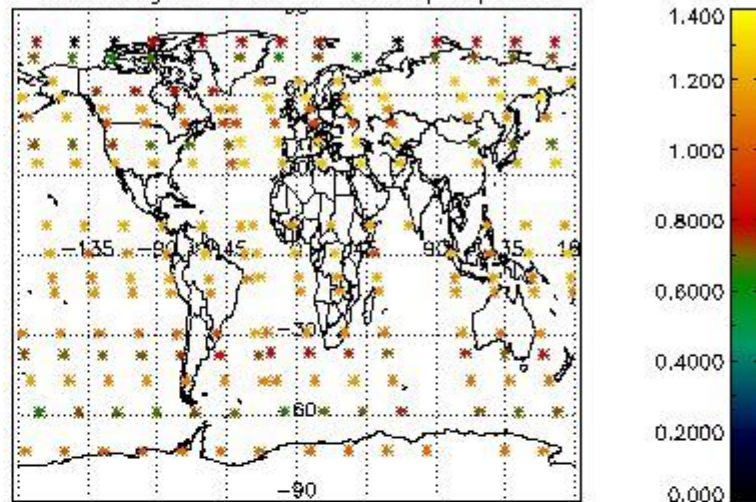
4.2 Plot quality information per product coming from level 1b processing (world map)

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

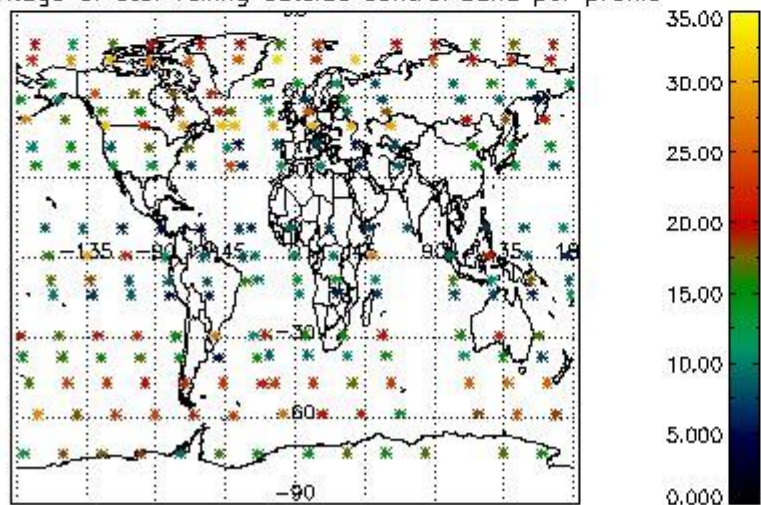
Percentage of cosmic ray hits per profile



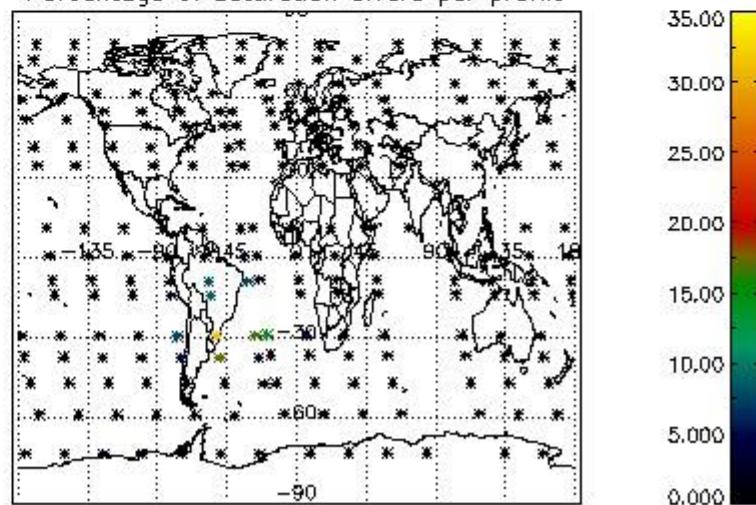
Percentage of datation errors per profile



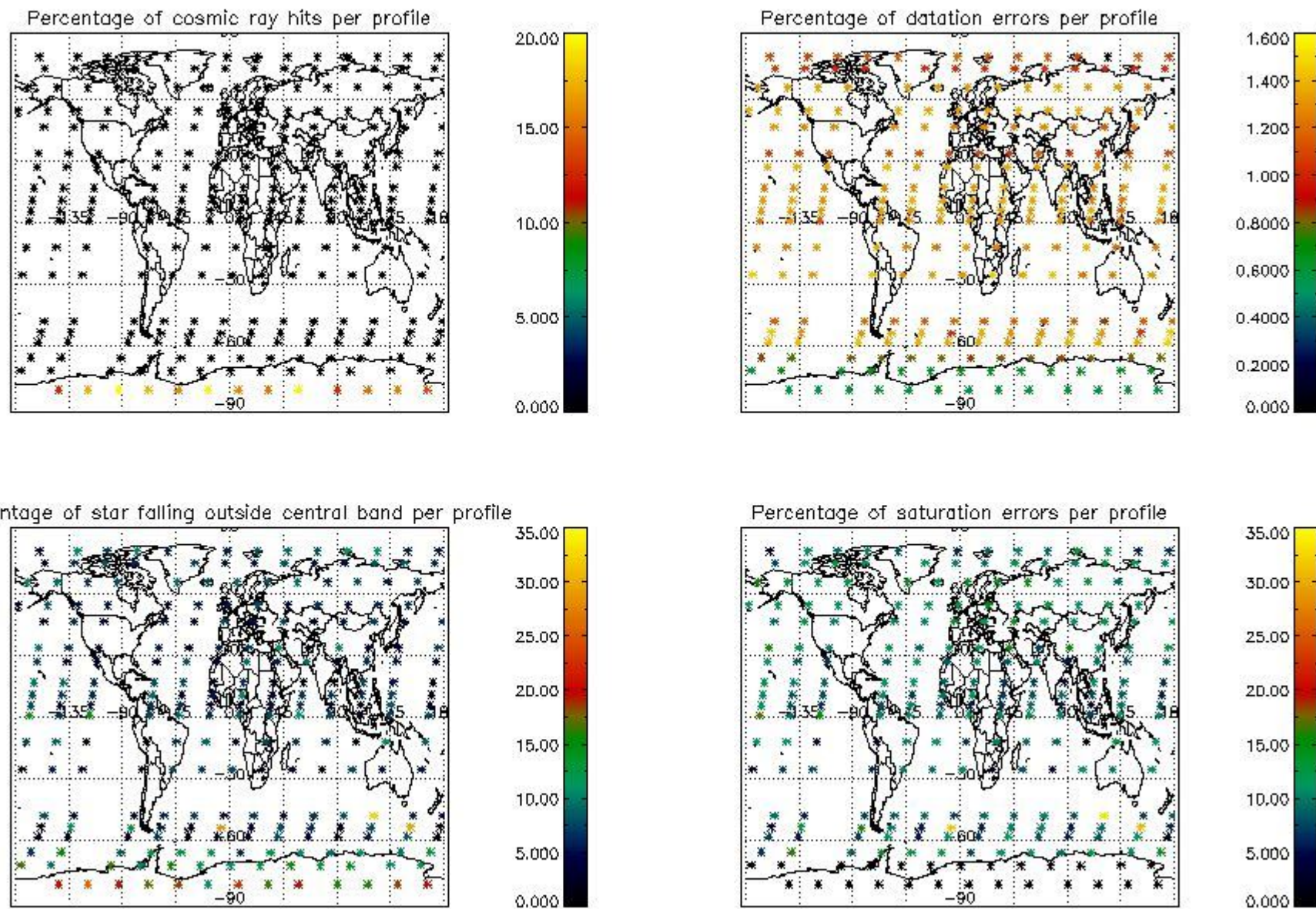
Percentage of star falling outside central band per profile



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

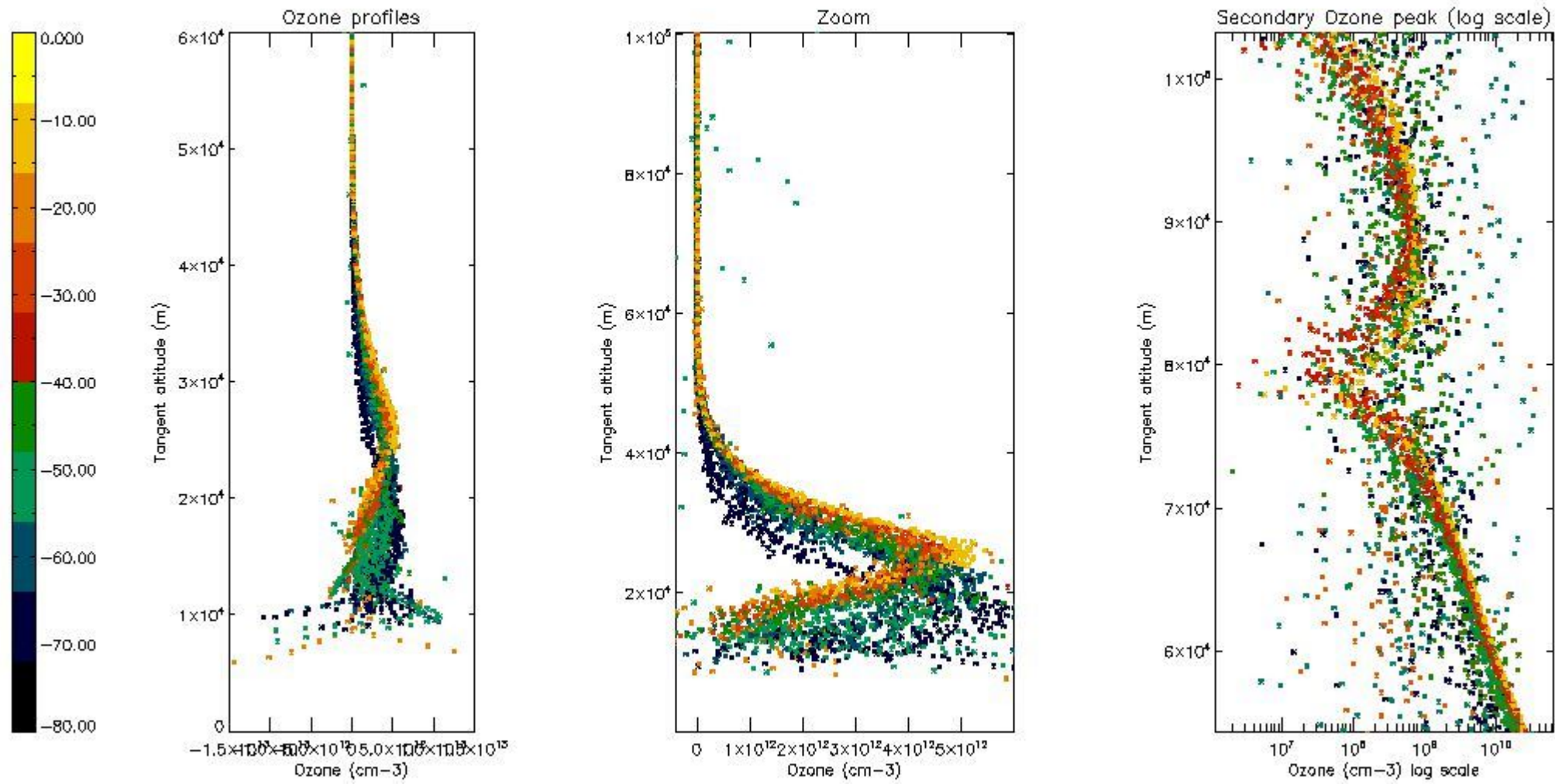
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	25
STD < 20	11

STD < 10	8
STD < 5	5

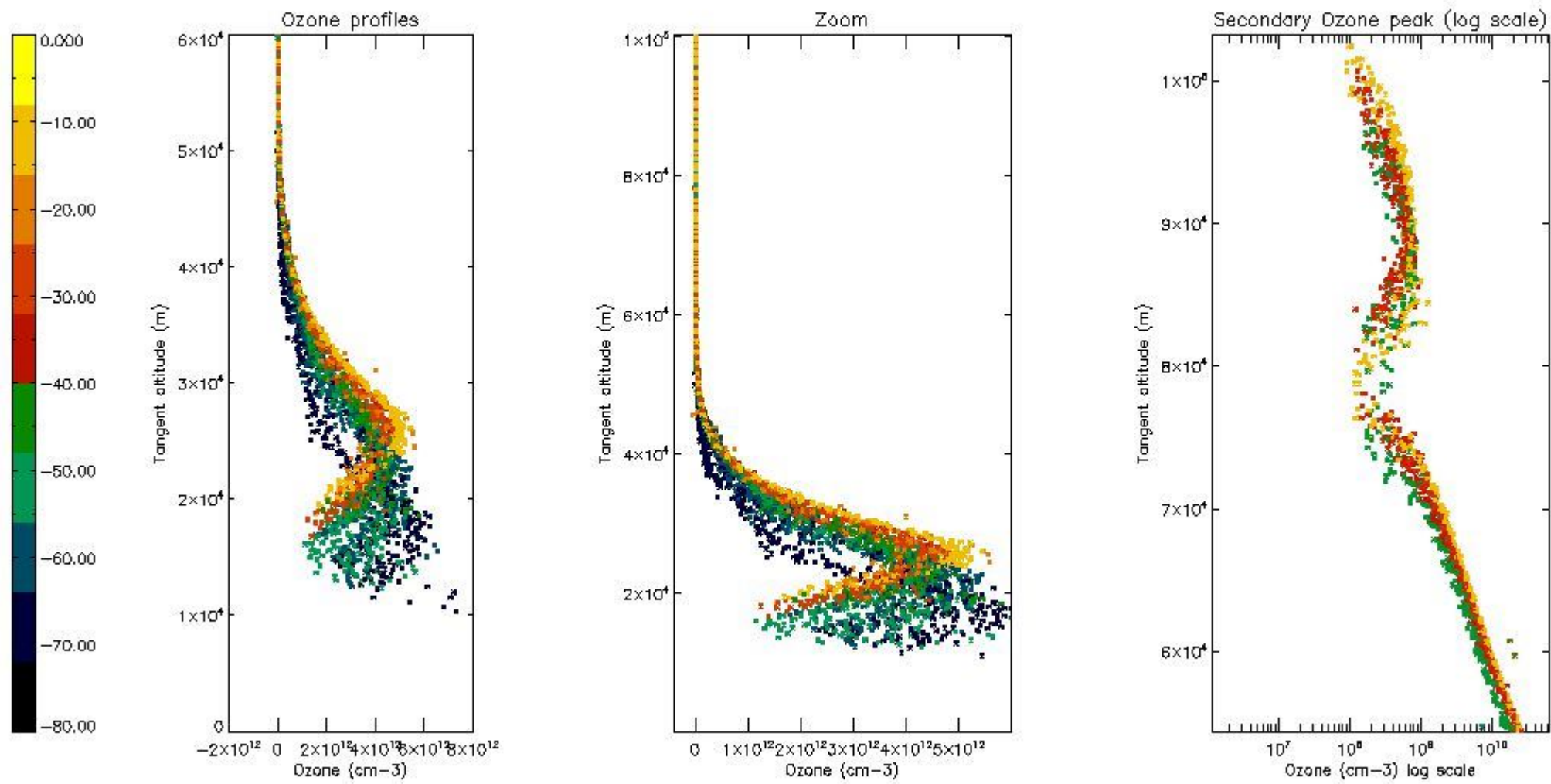
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



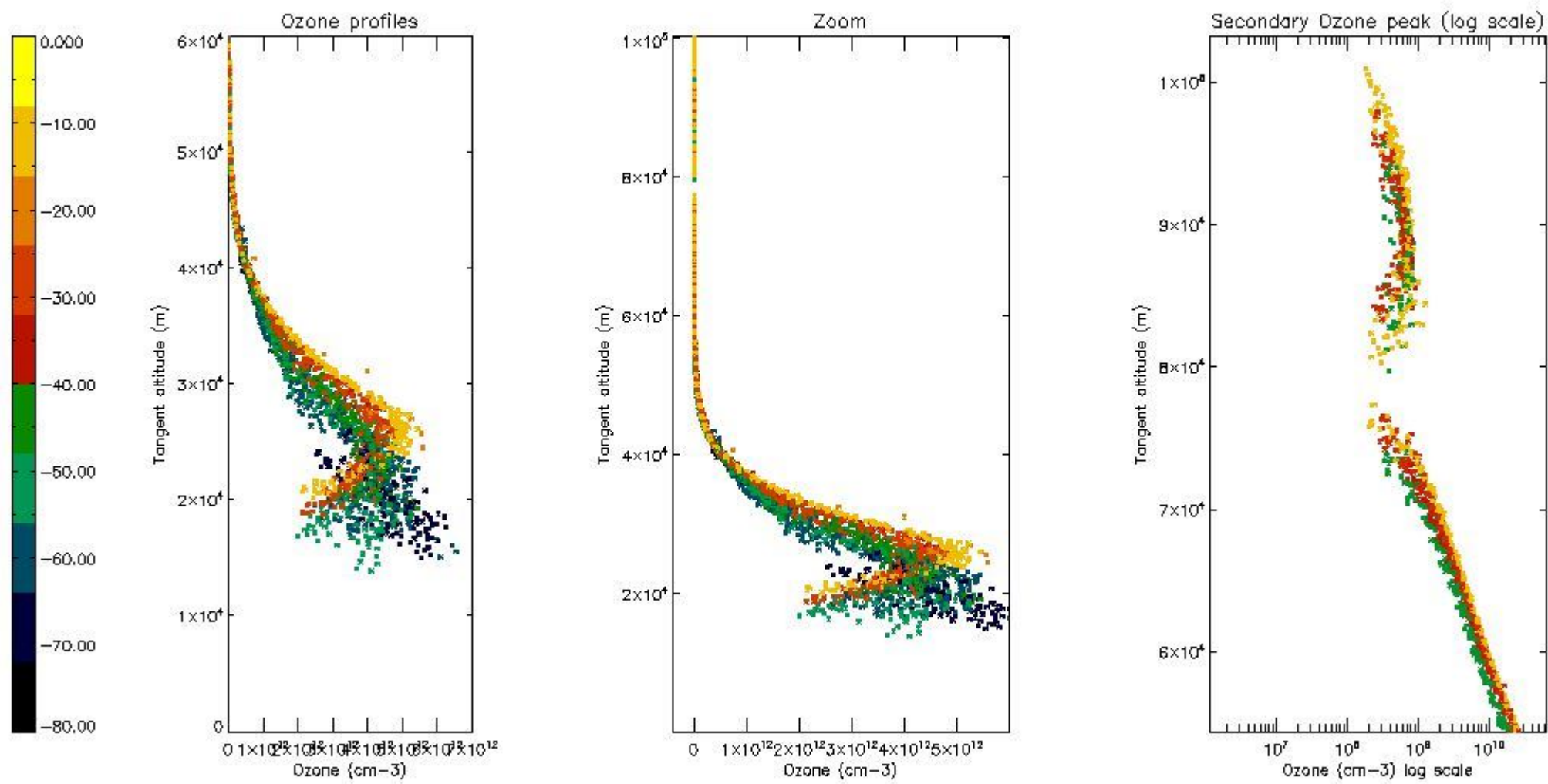
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



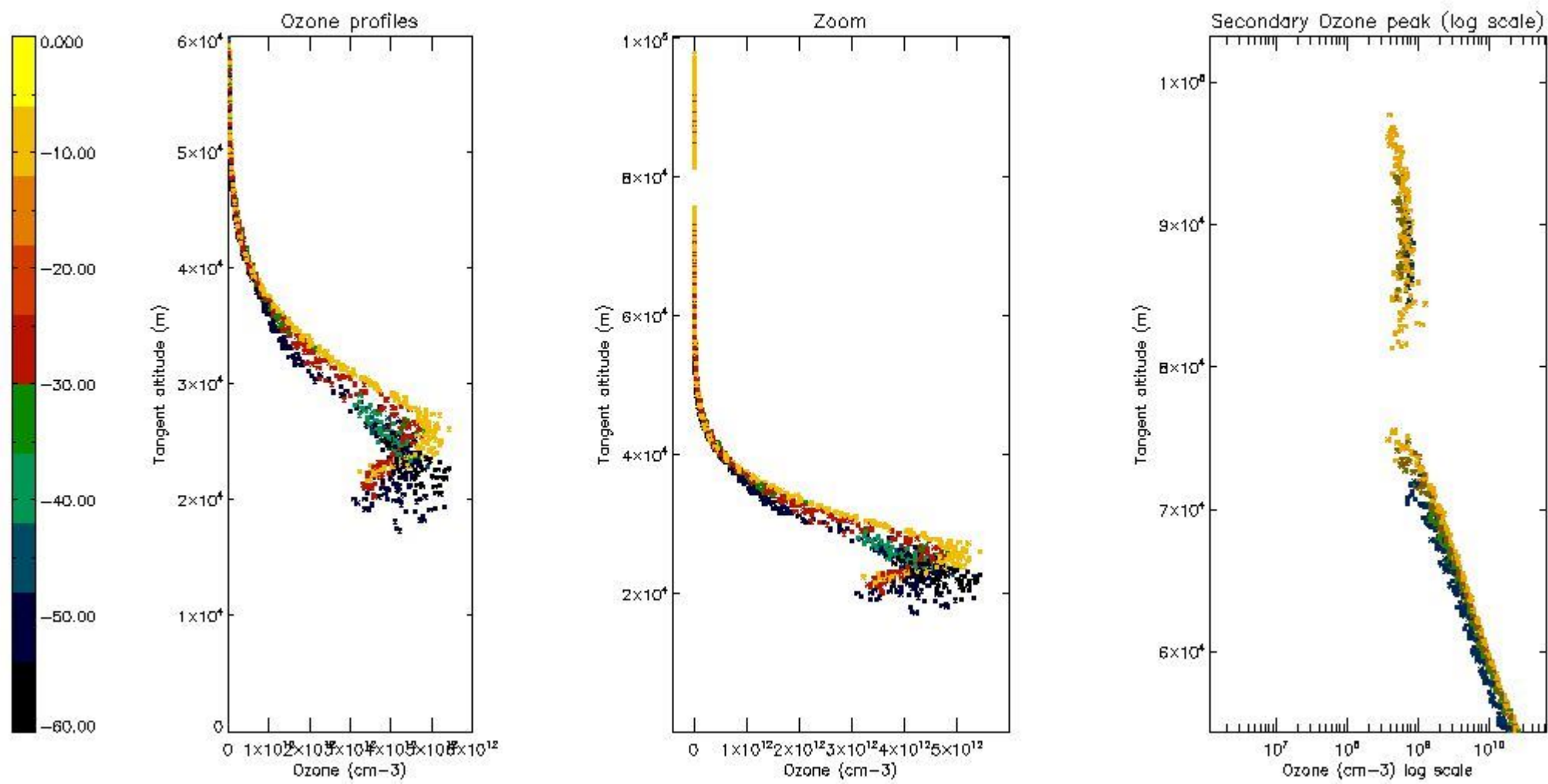
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



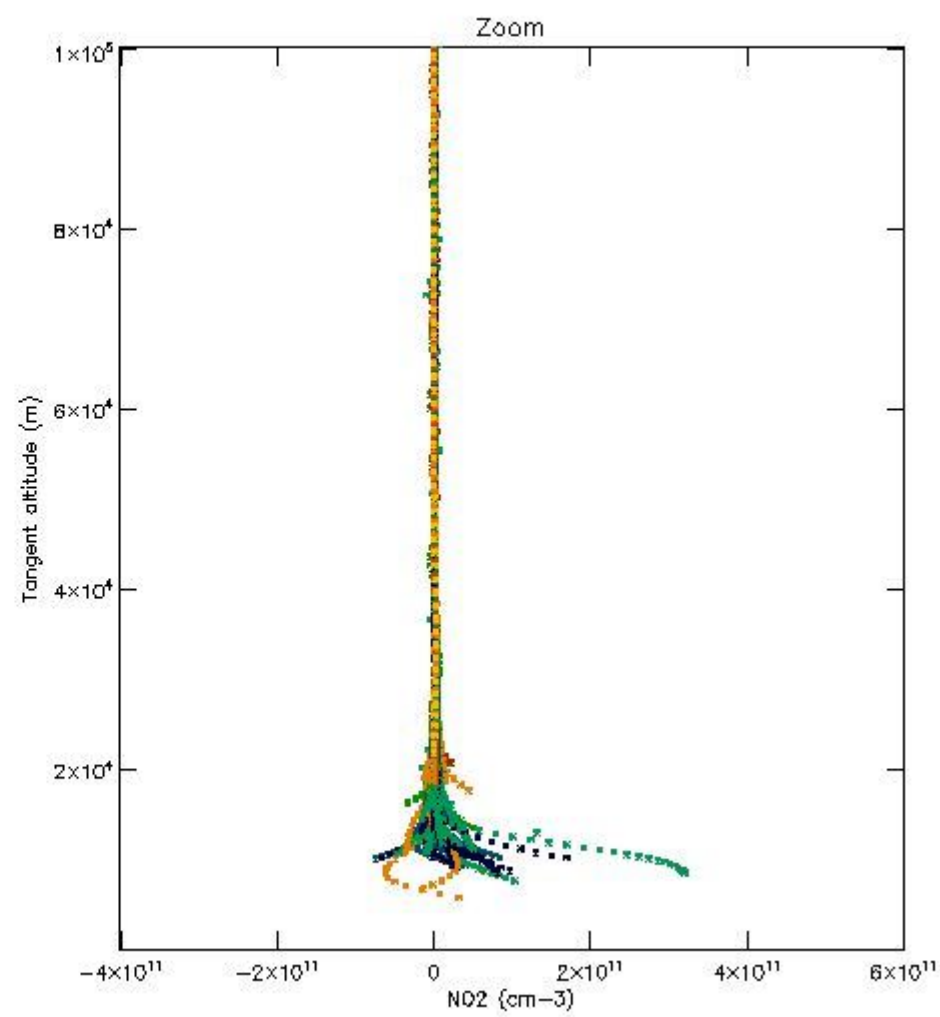
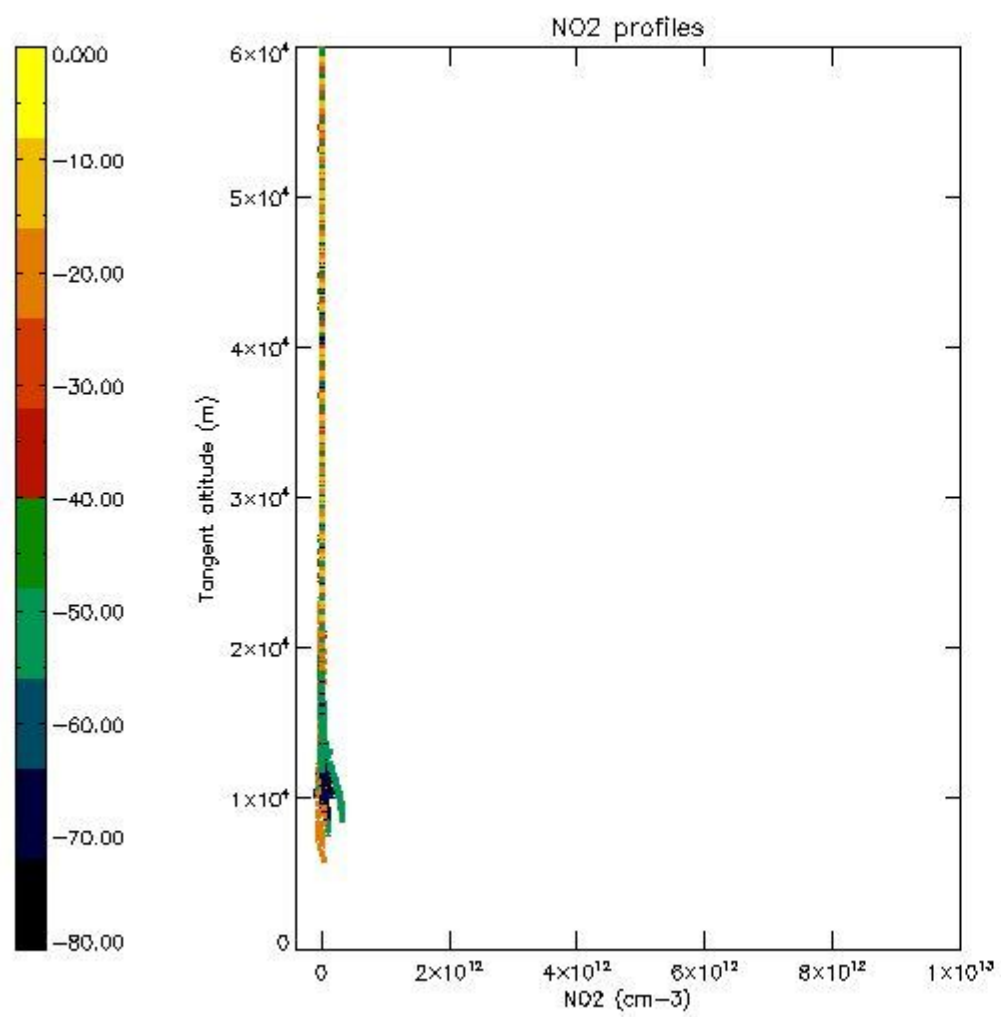
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



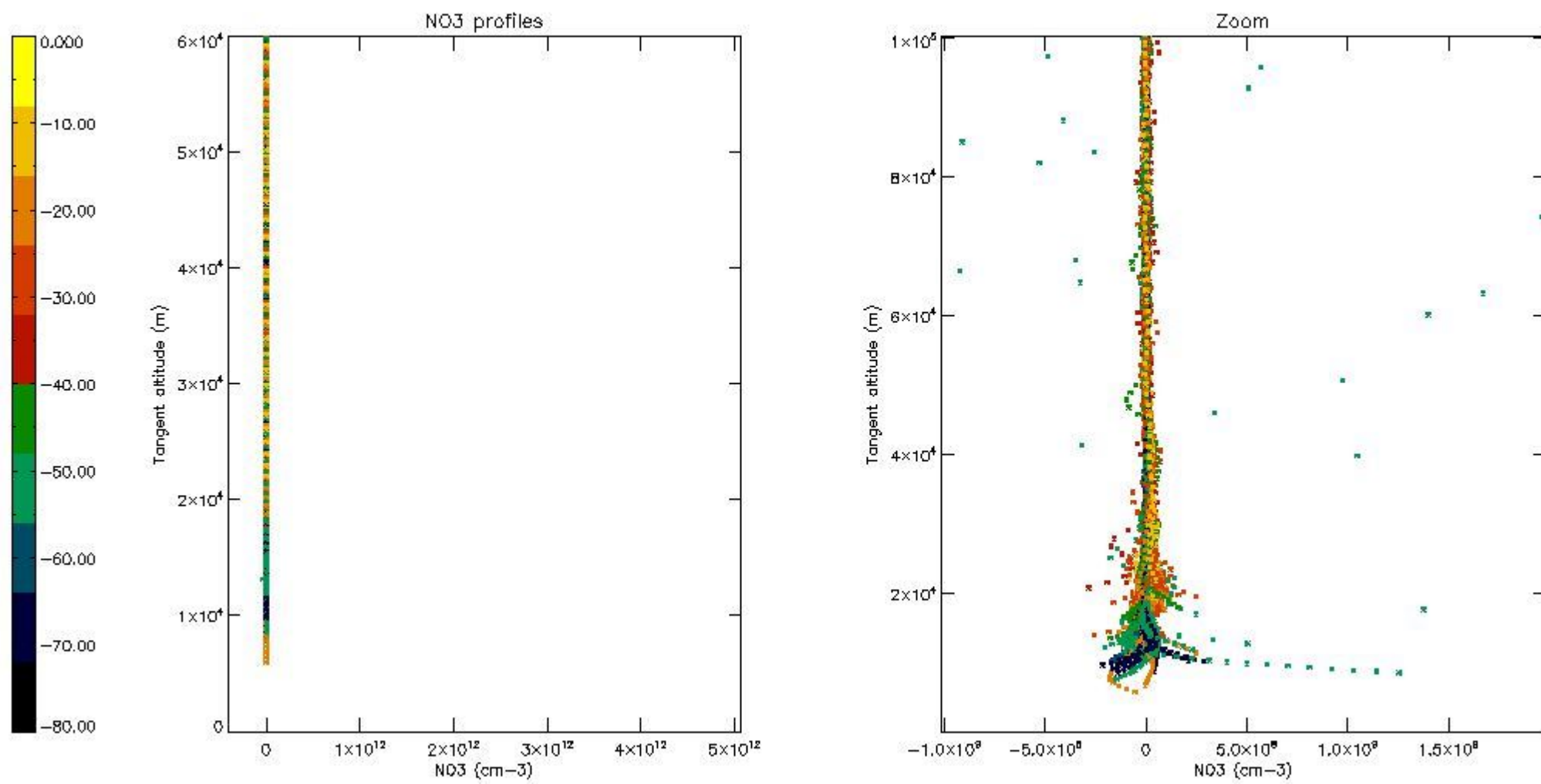
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



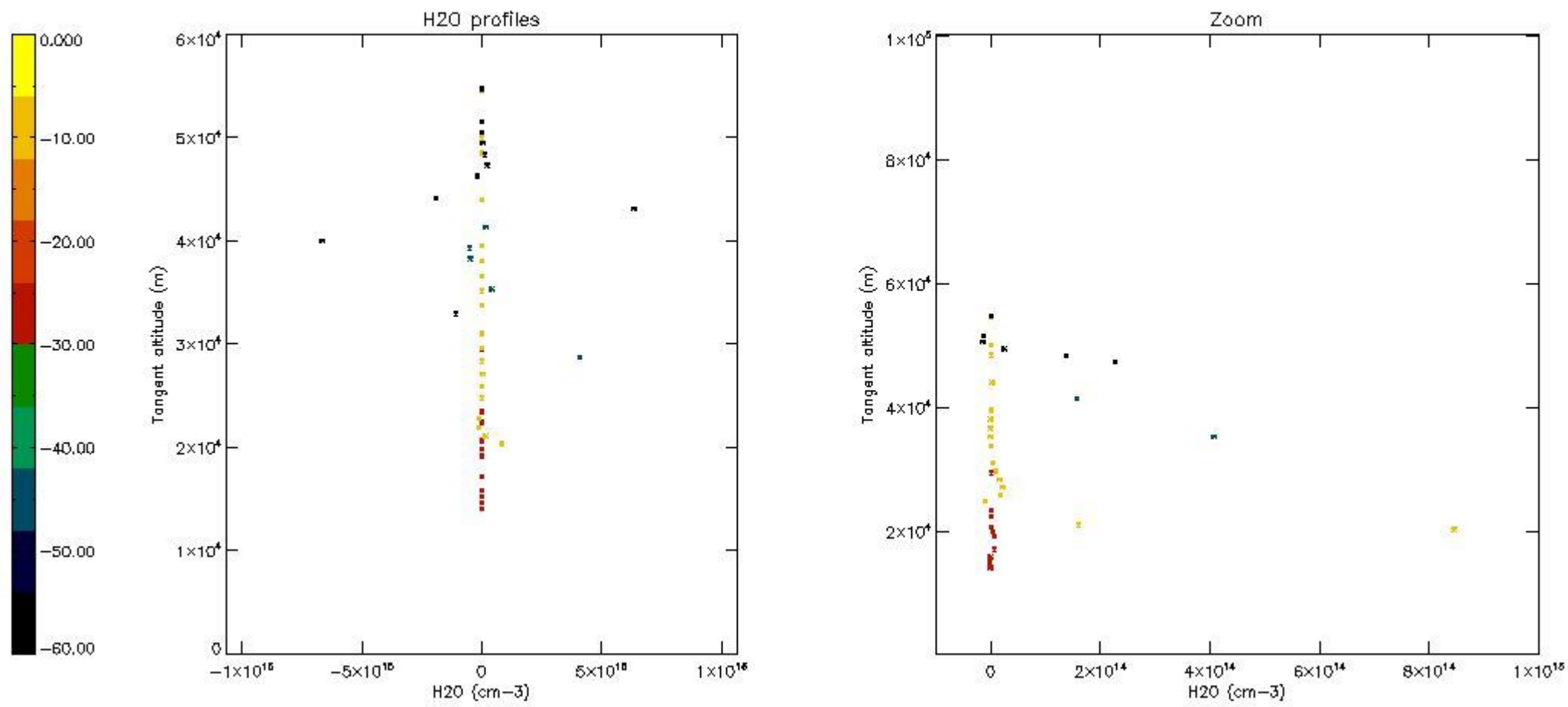
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

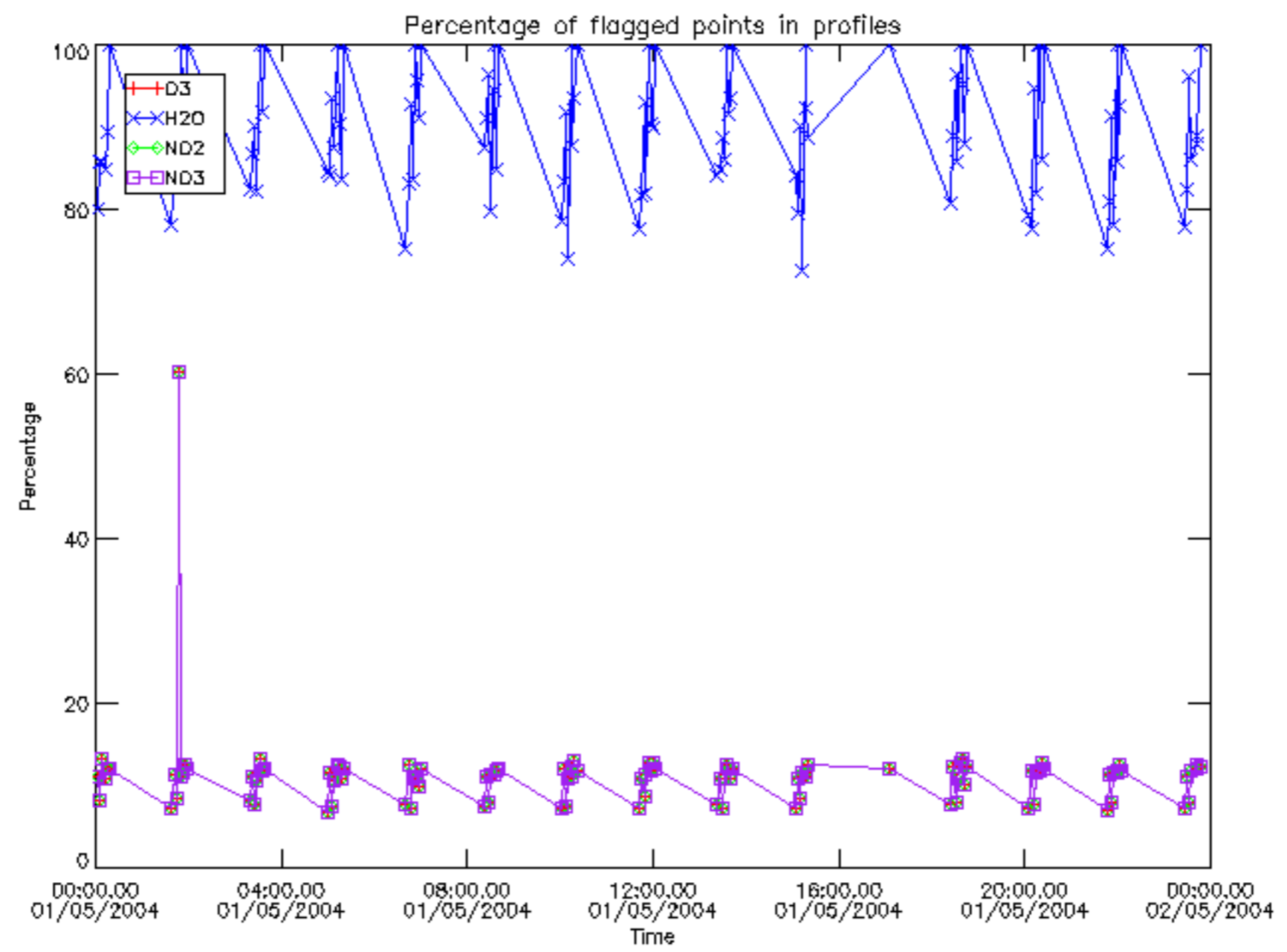
The colorbar represents the latitude.



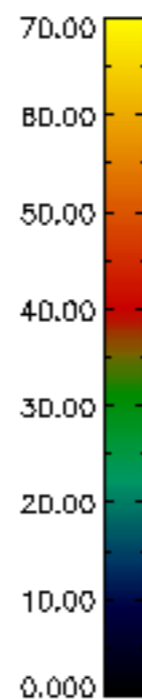
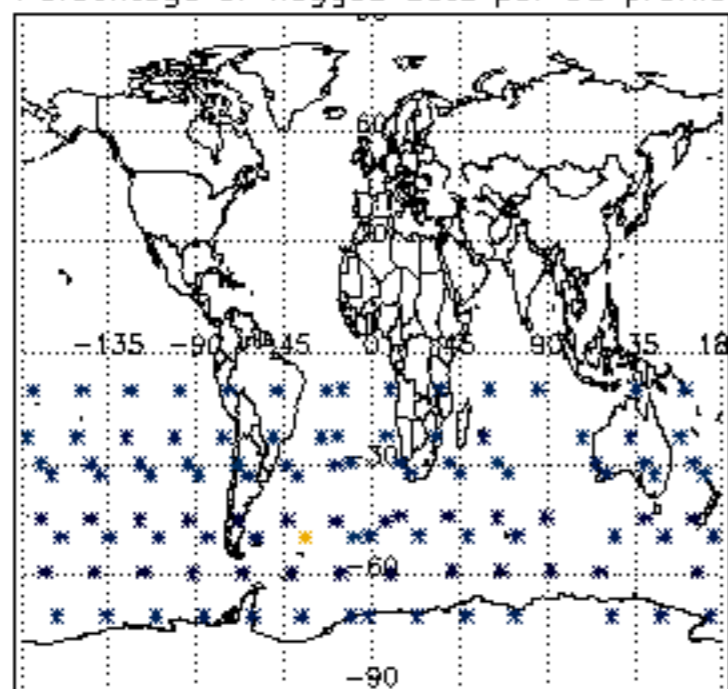
6. Auxiliary Data Files used for the production reported in section 2

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.

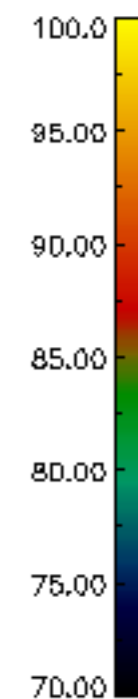
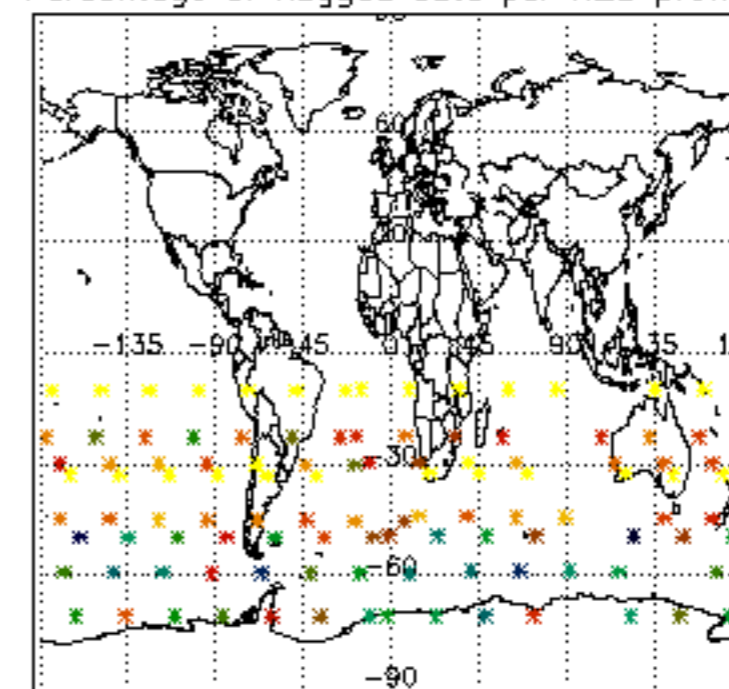
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	01-MAY-2004 00:01:29
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	01-MAY-2004 00:01:29
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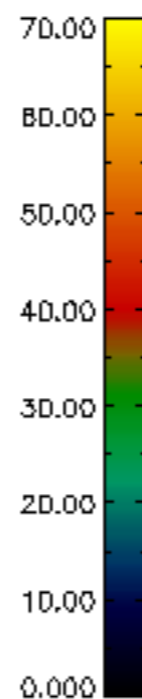
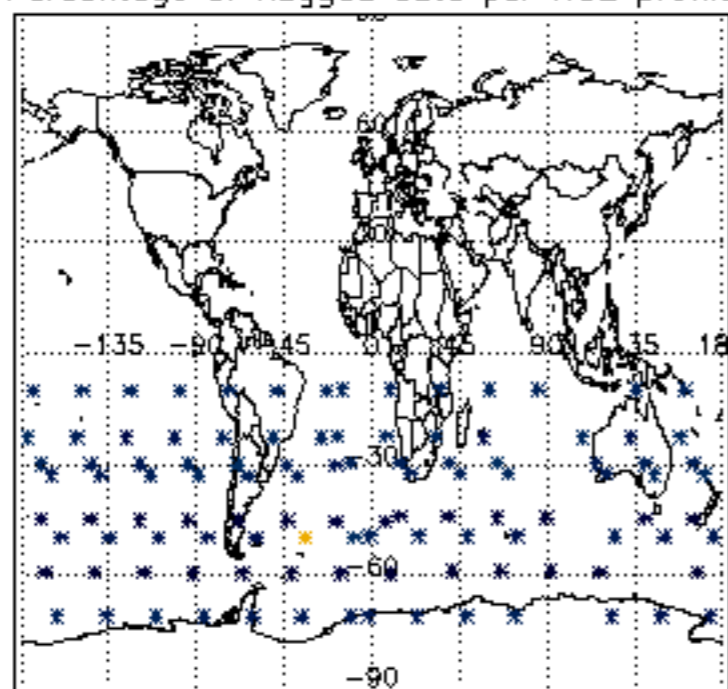
Percentage of flagged data per D3 profile



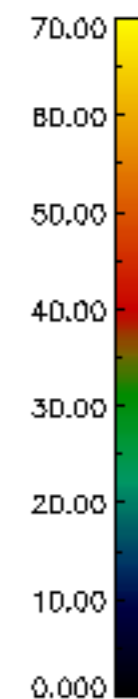
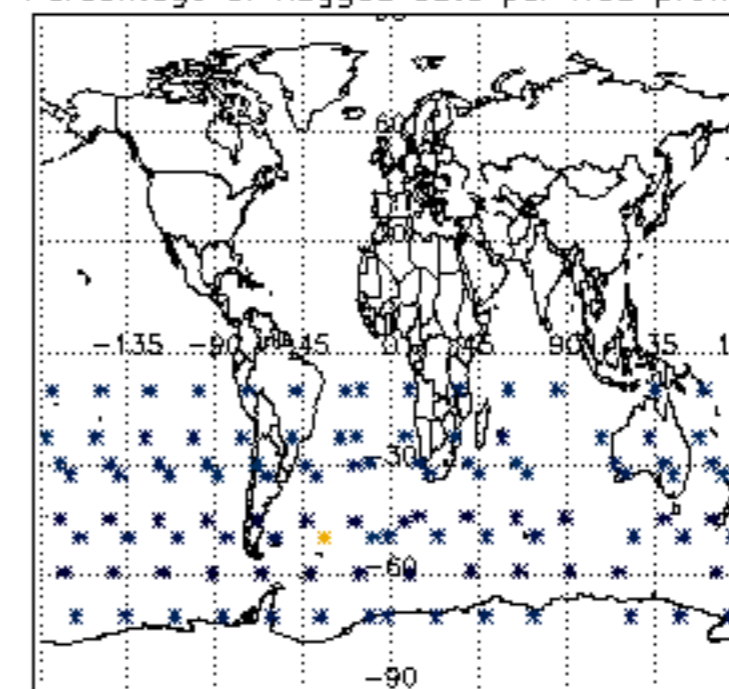
Percentage of flagged data per H2O profile

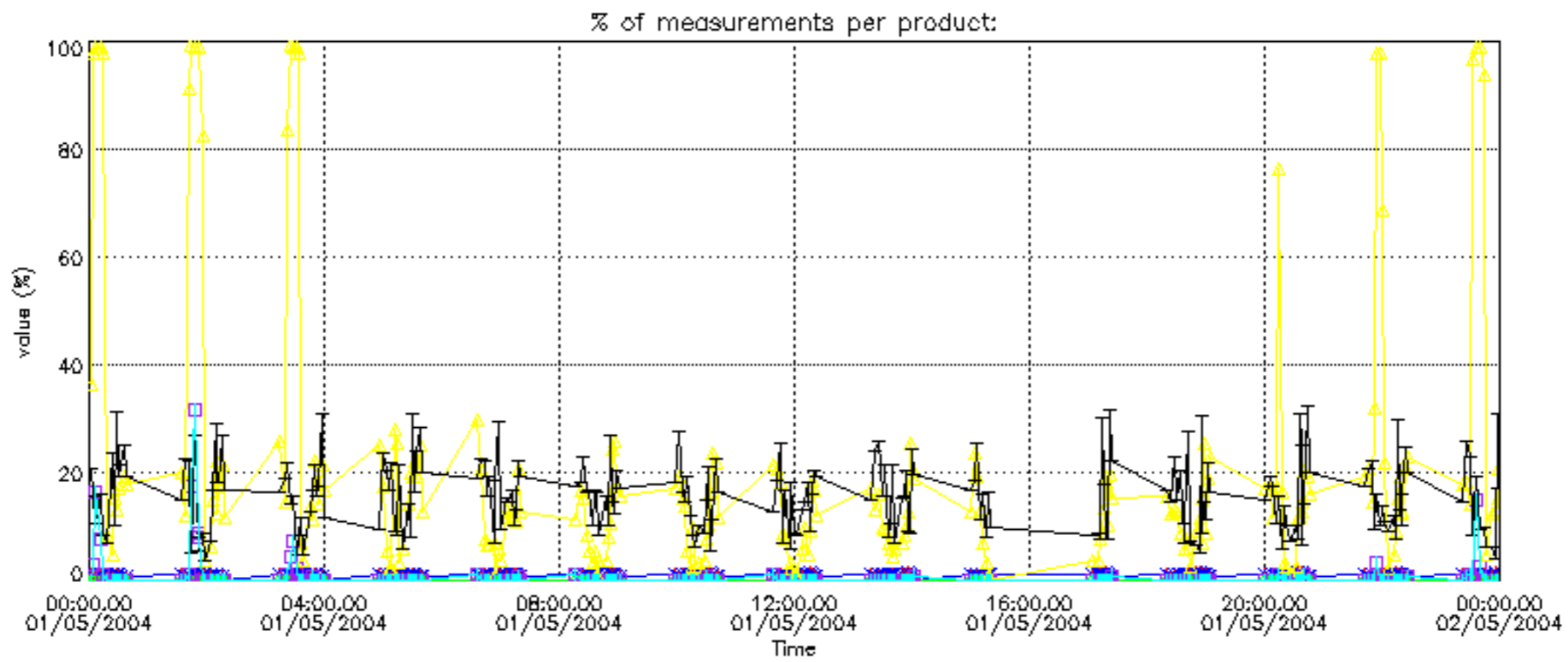
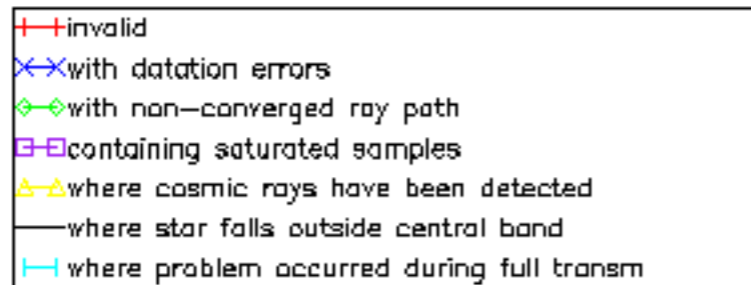


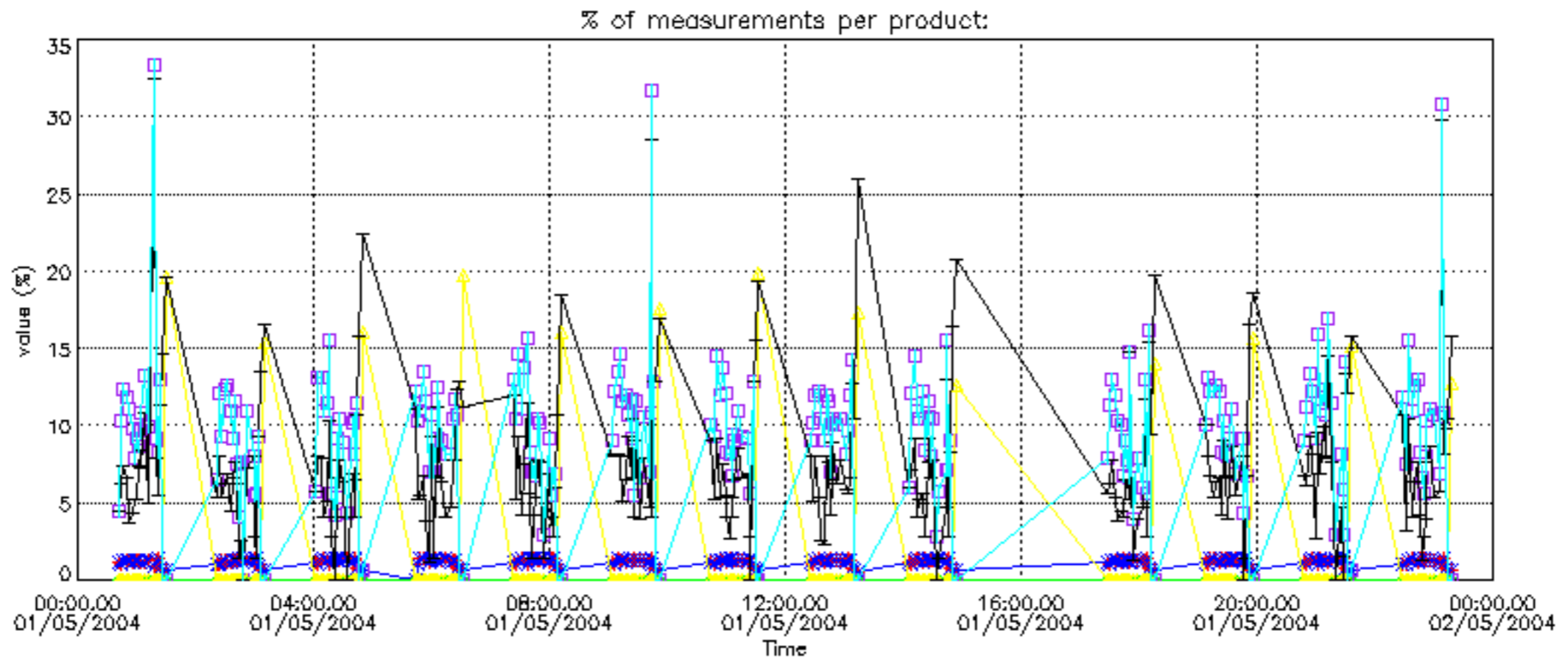
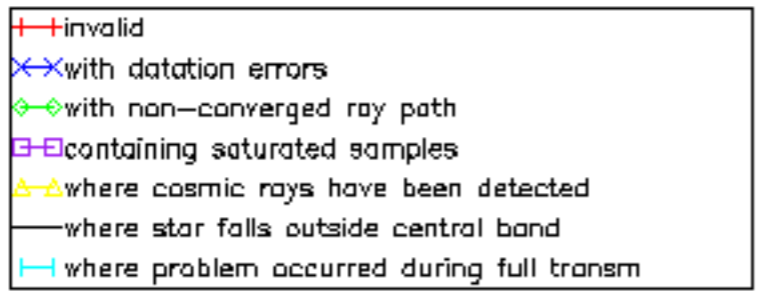
Percentage of flagged data per NO2 profile



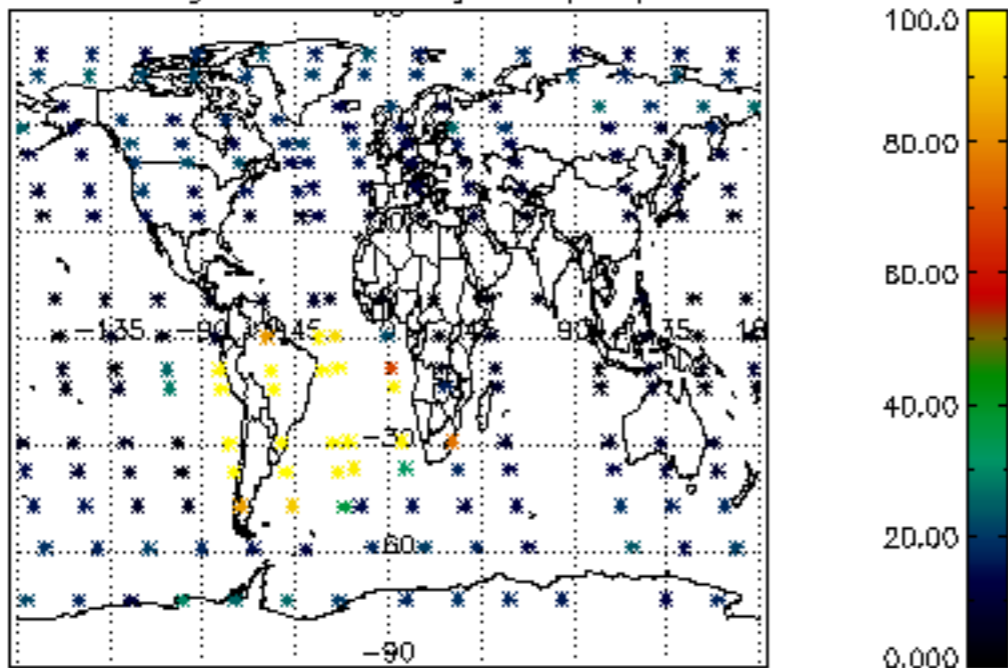
Percentage of flagged data per NO3 profile



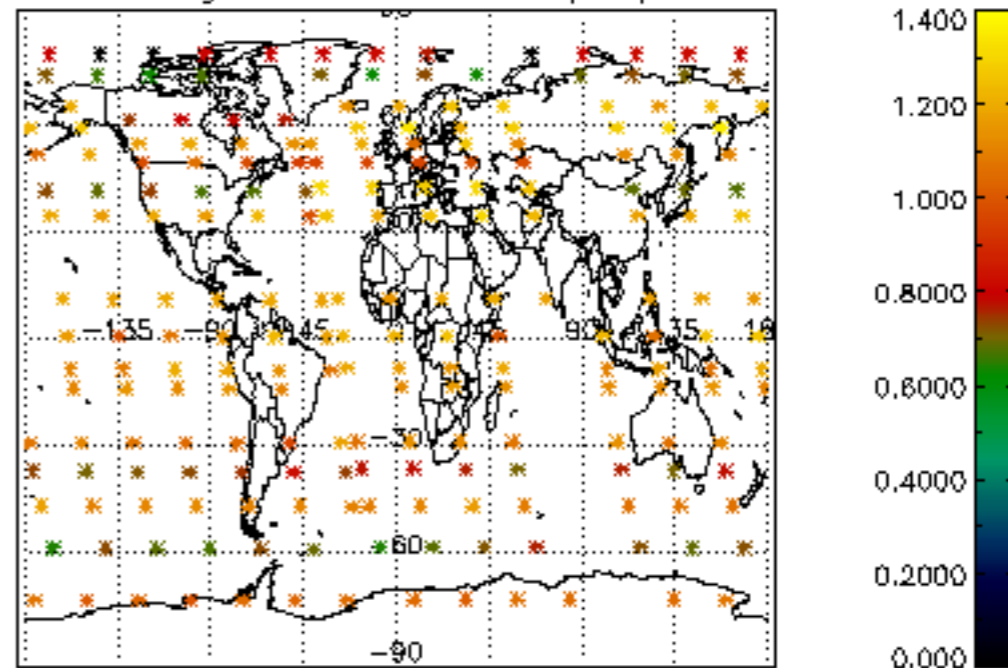




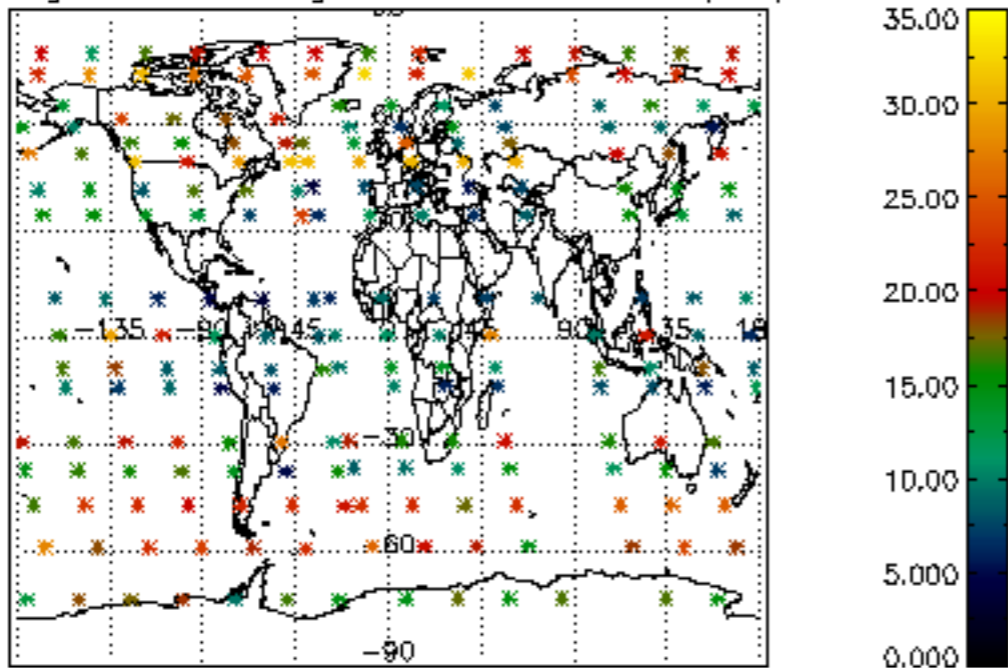
Percentage of cosmic ray hits per profile



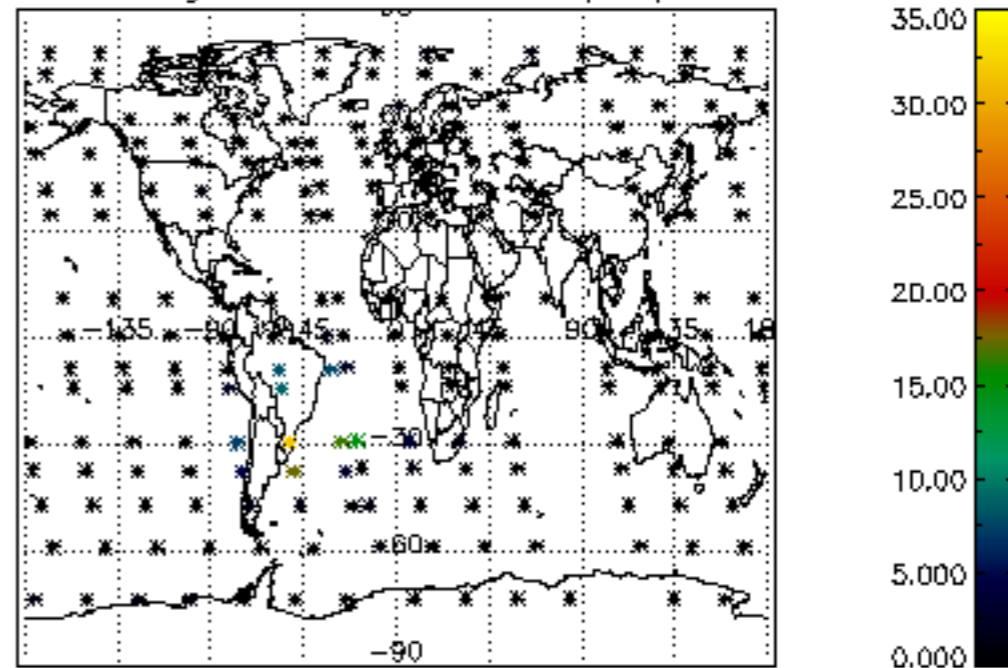
Percentage of datation errors per profile



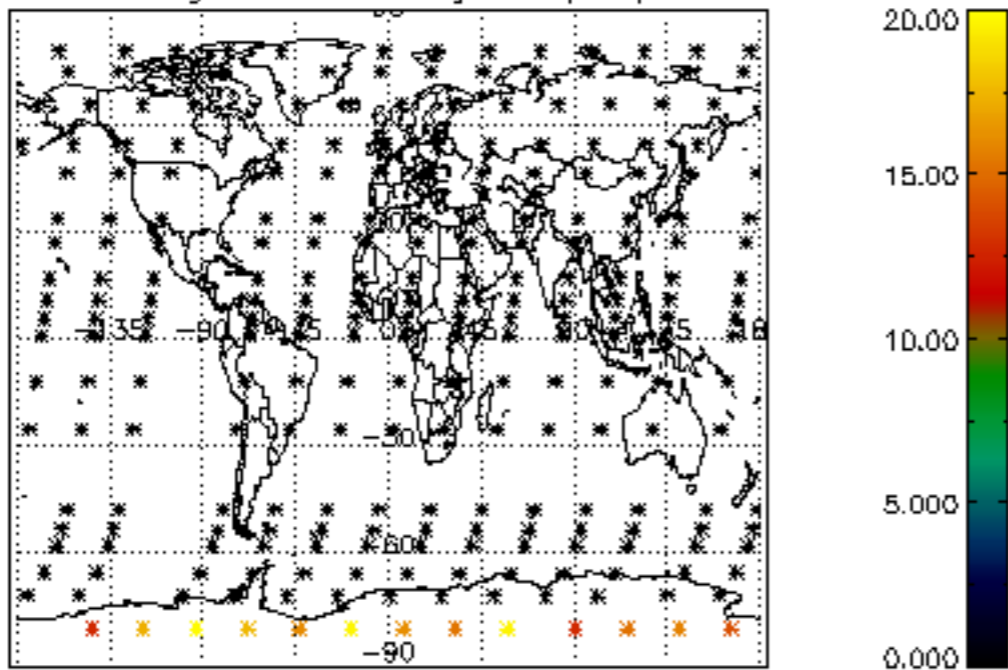
Percentage of star falling outside central band per profile



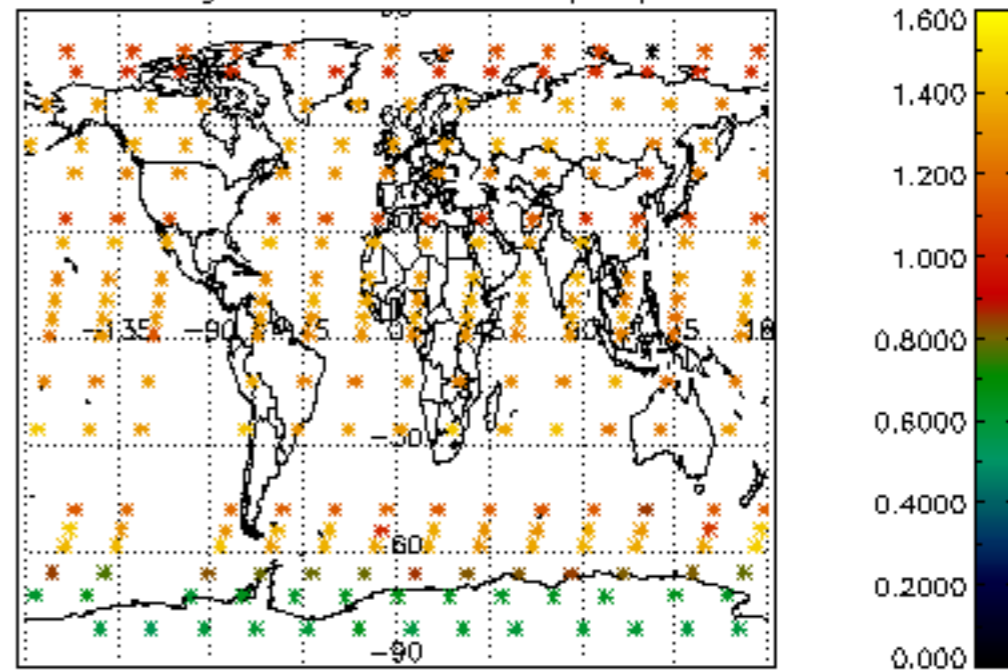
Percentage of saturation errors per profile



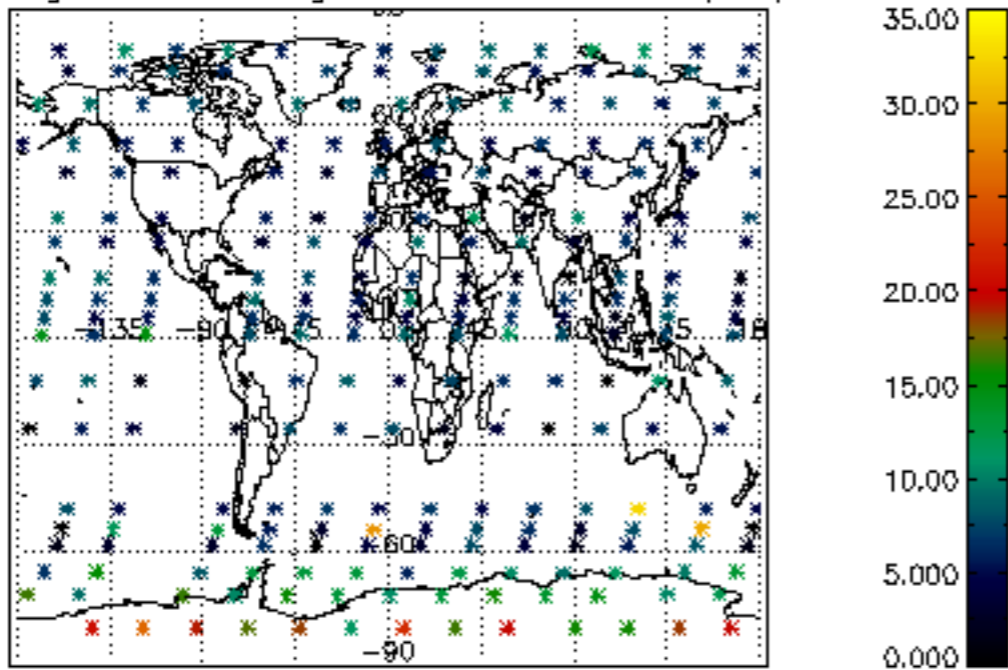
Percentage of cosmic ray hits per profile



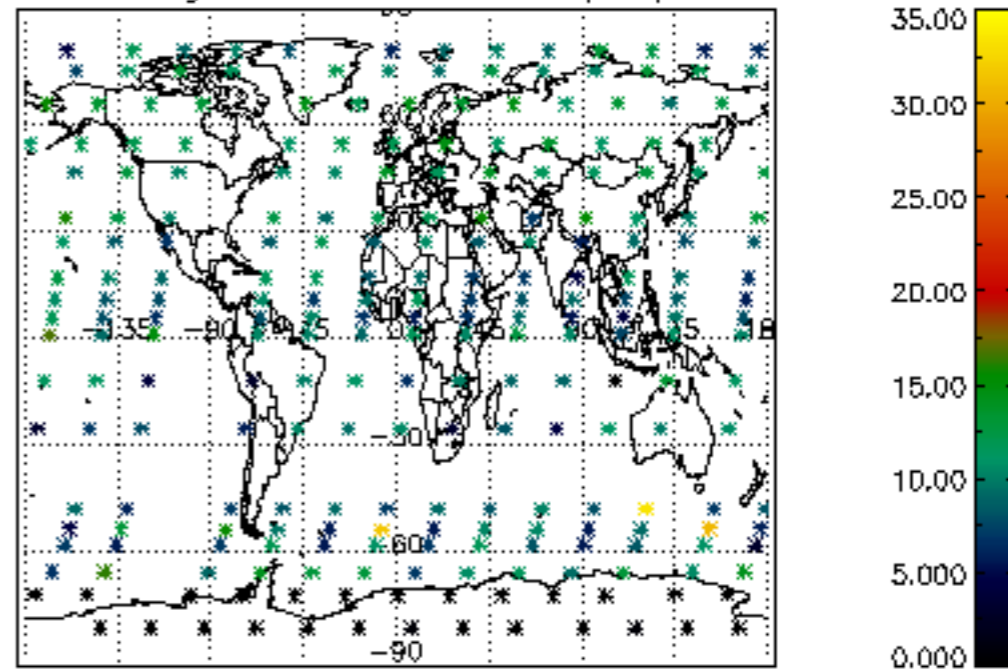
Percentage of datation errors per profile

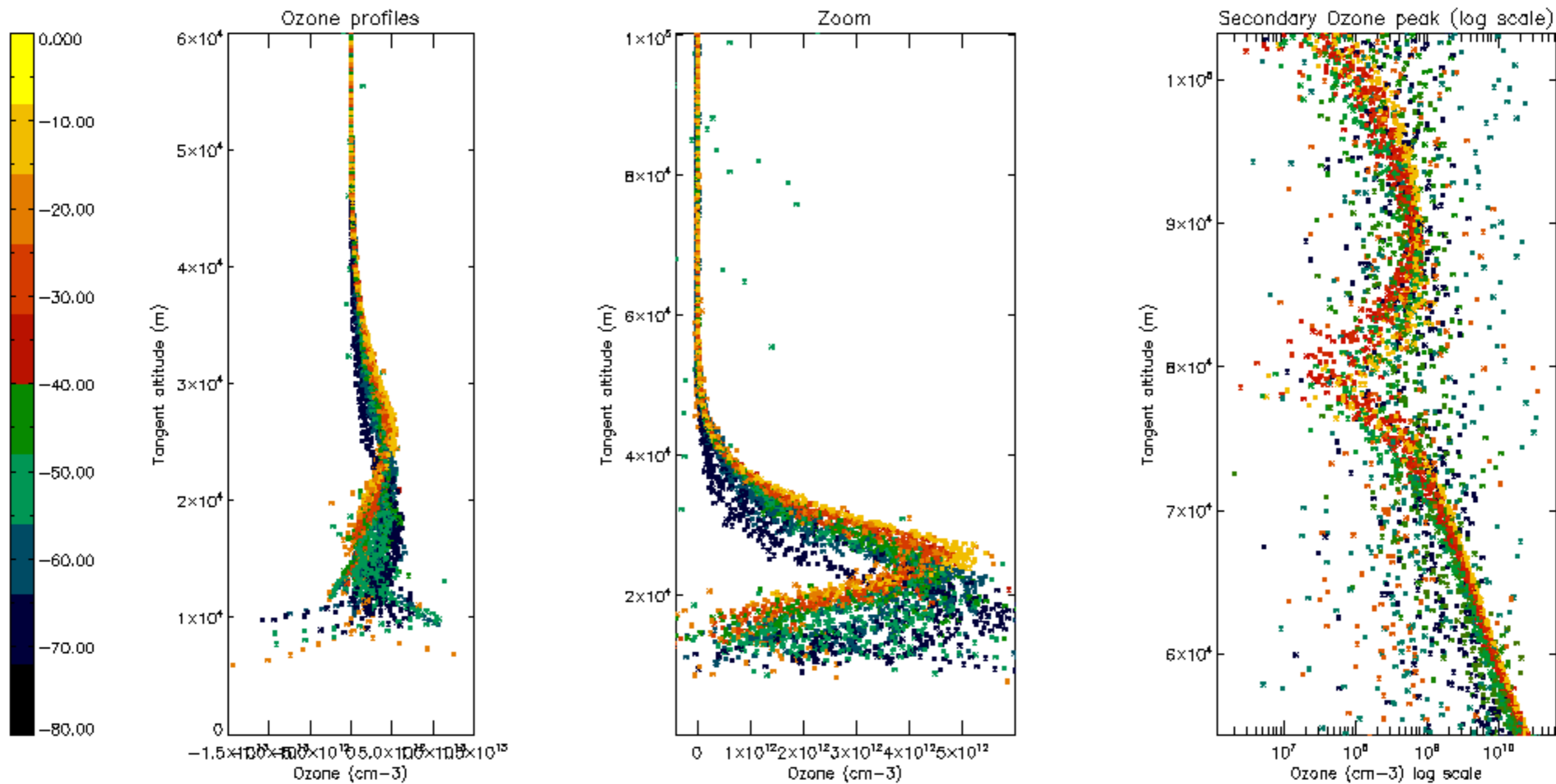


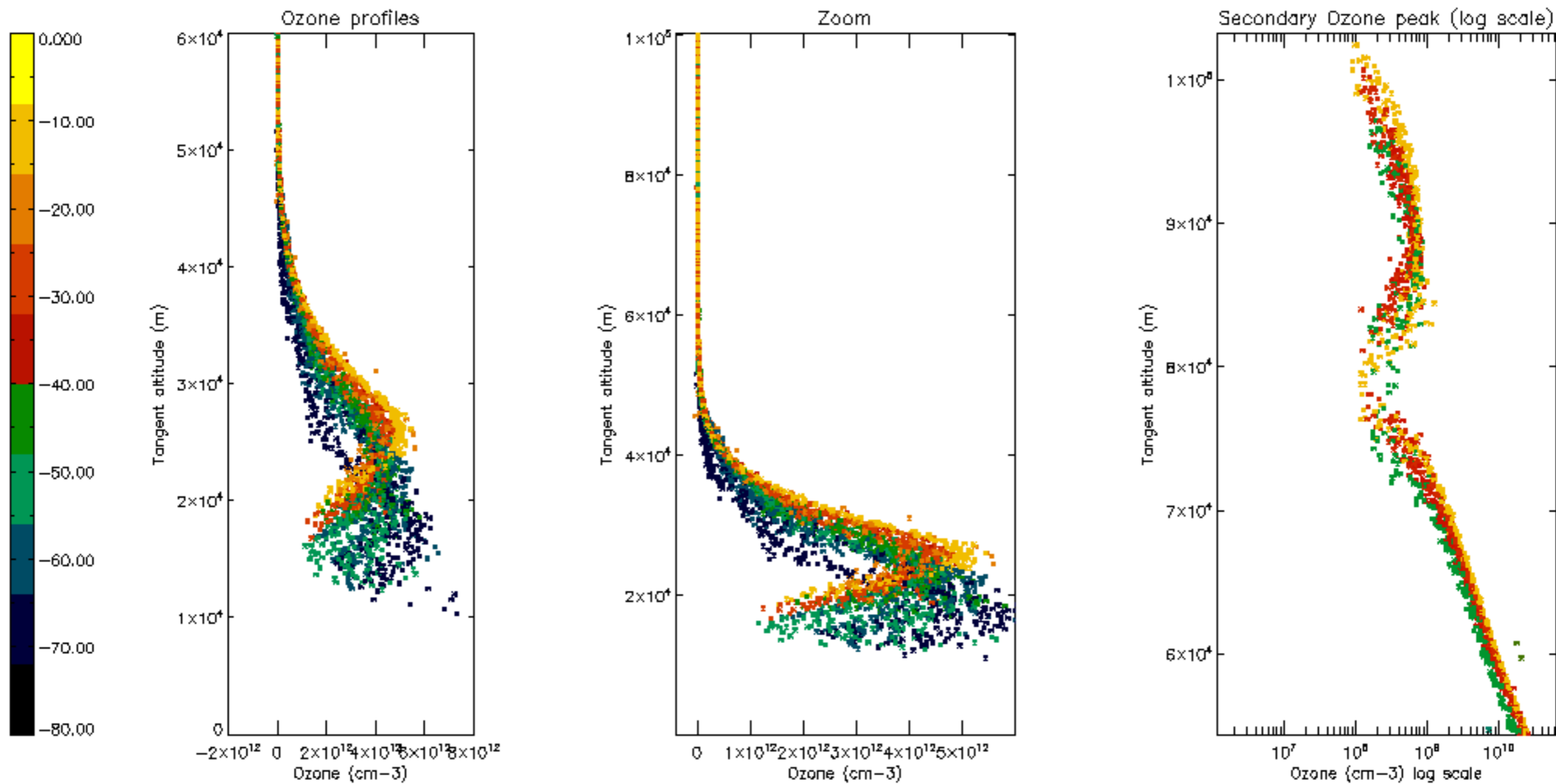
Percentage of star falling outside central band per profile

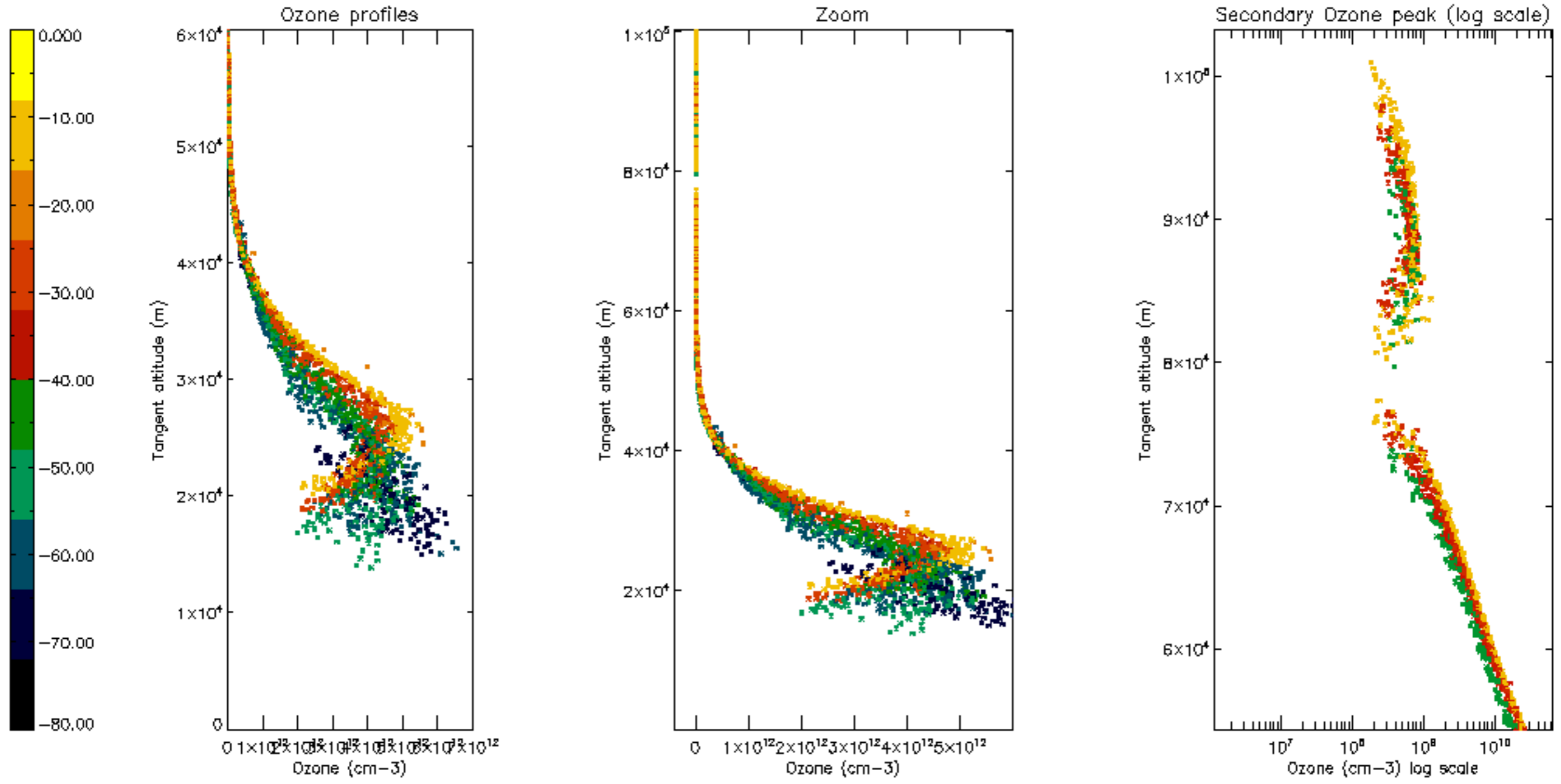


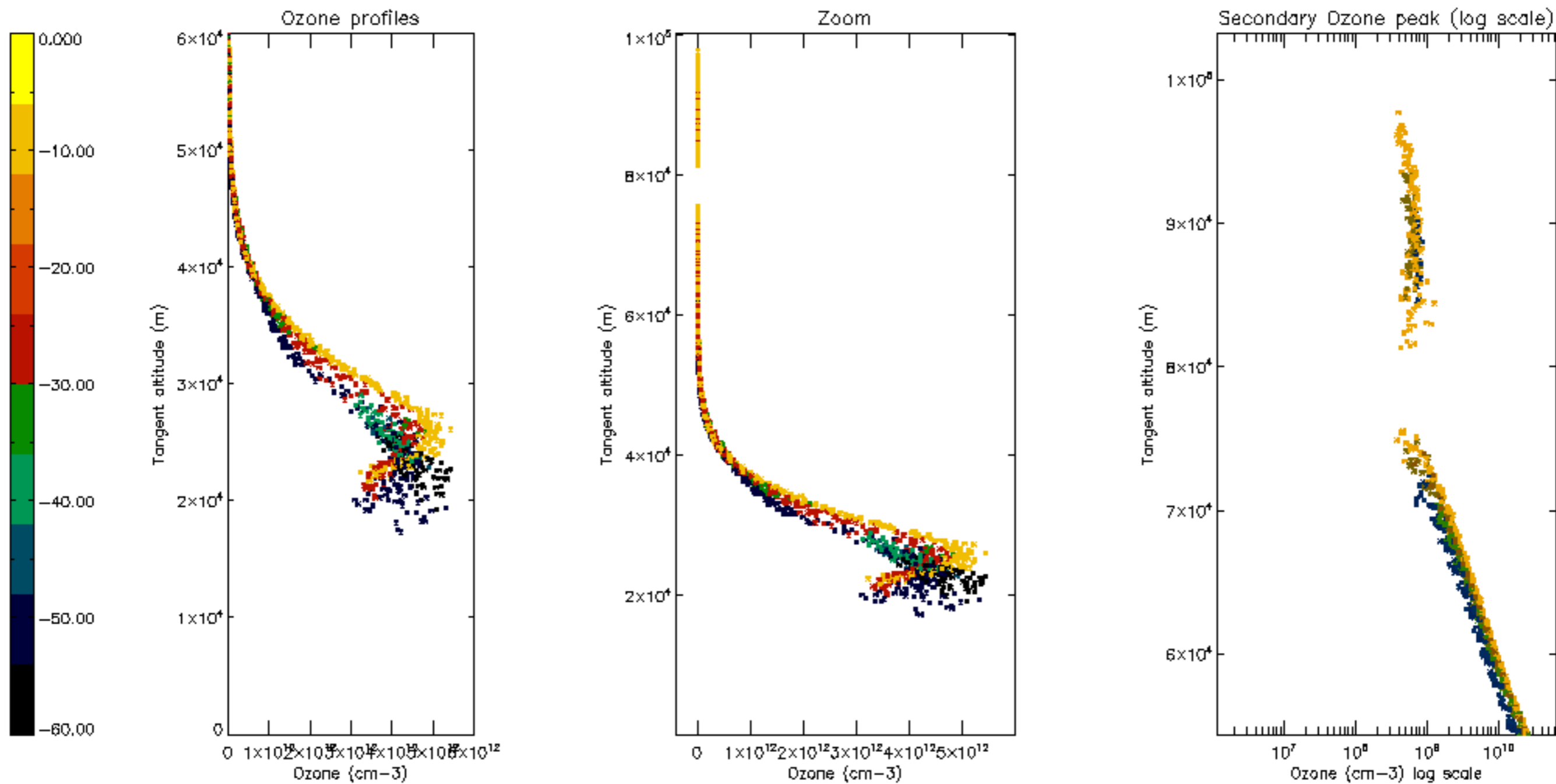
Percentage of saturation errors per profile

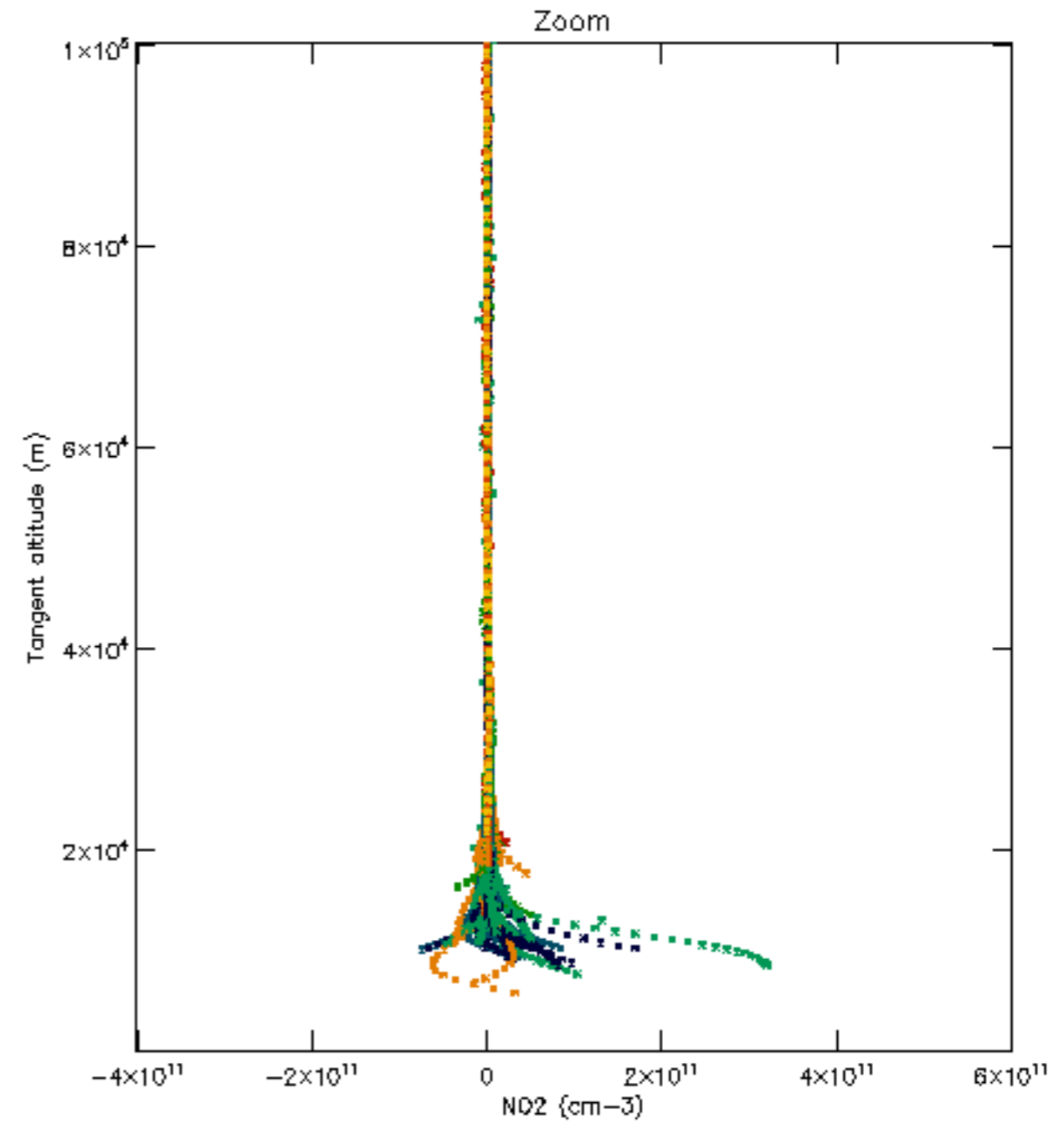
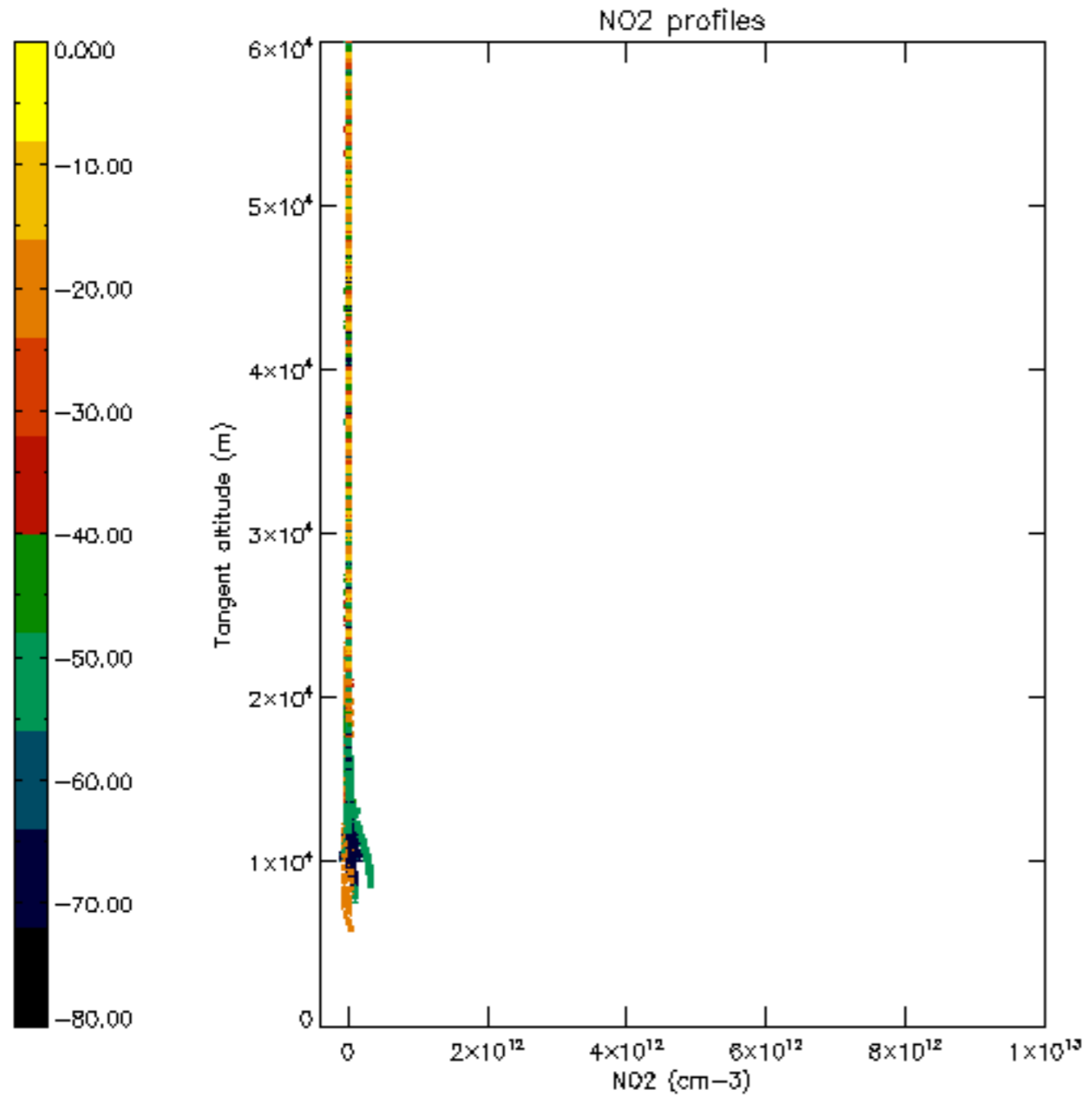


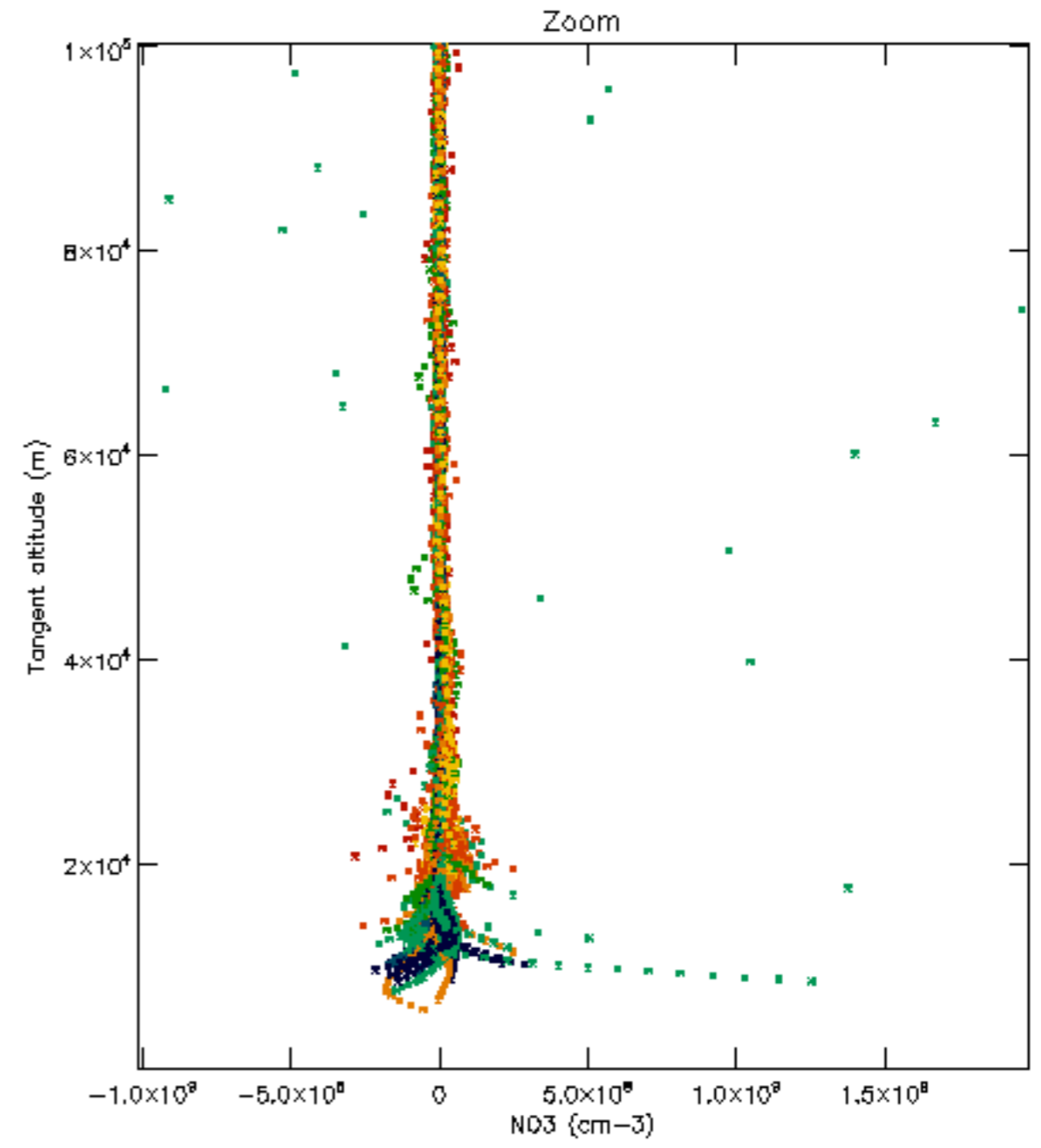
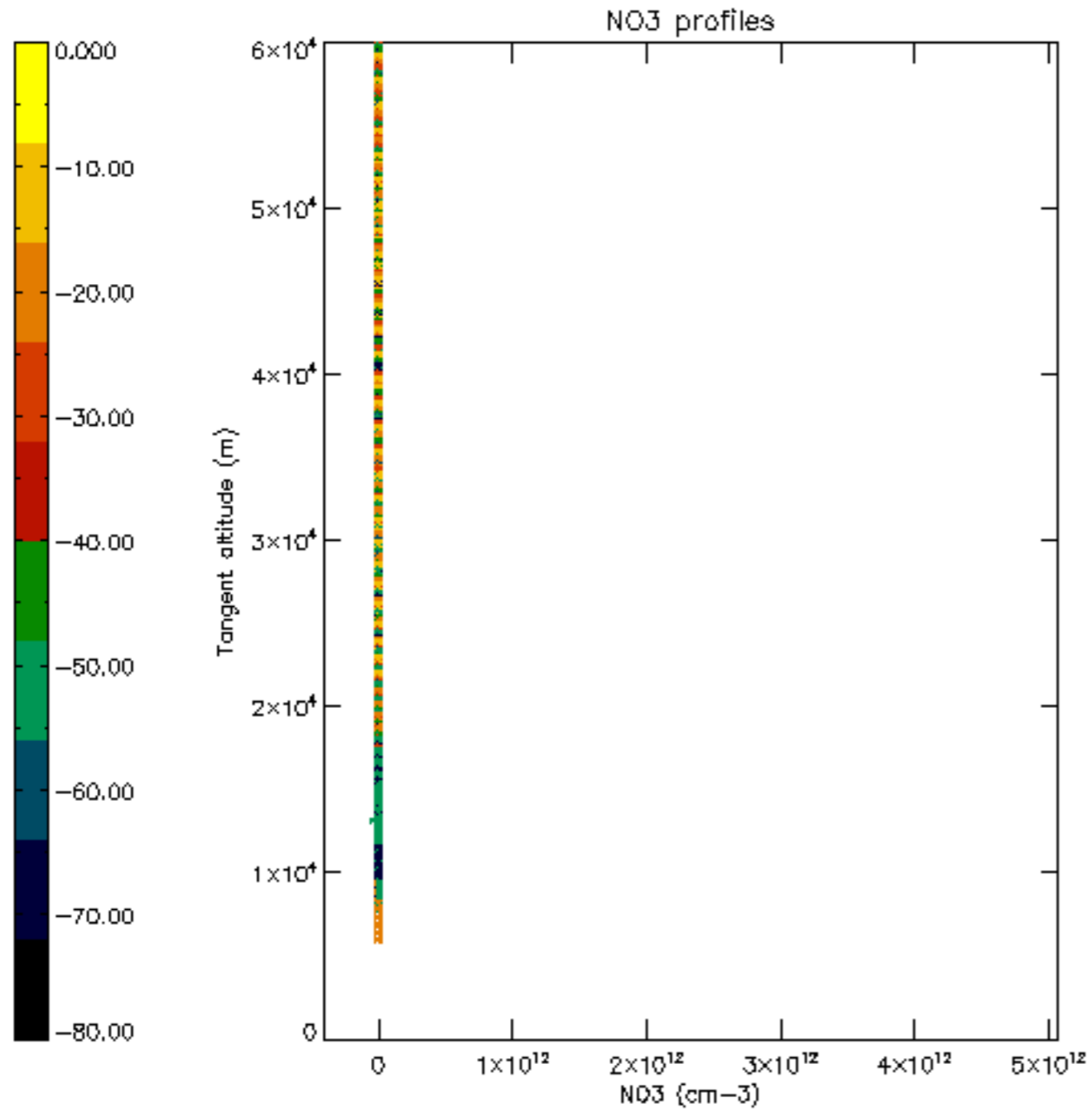


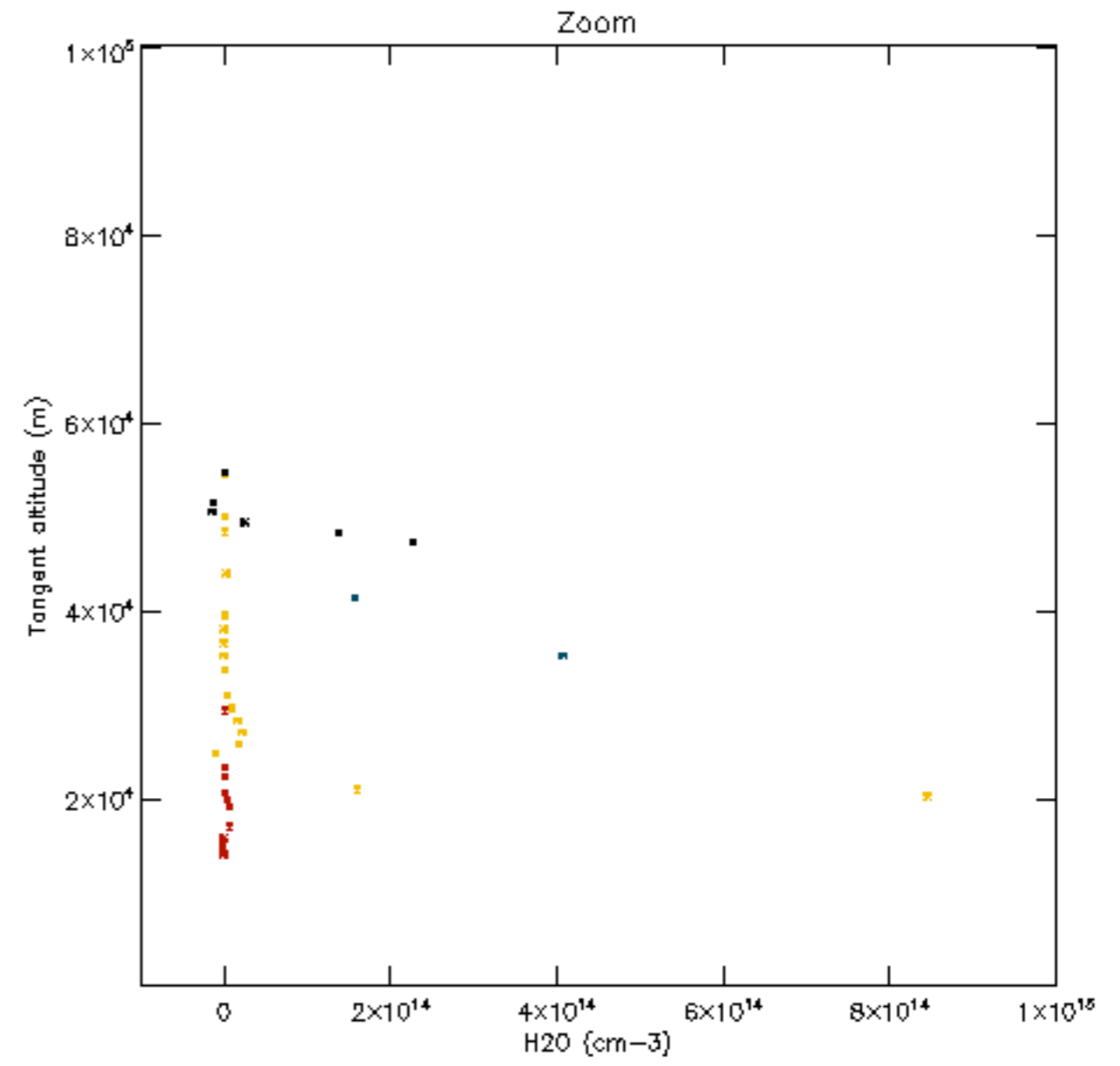
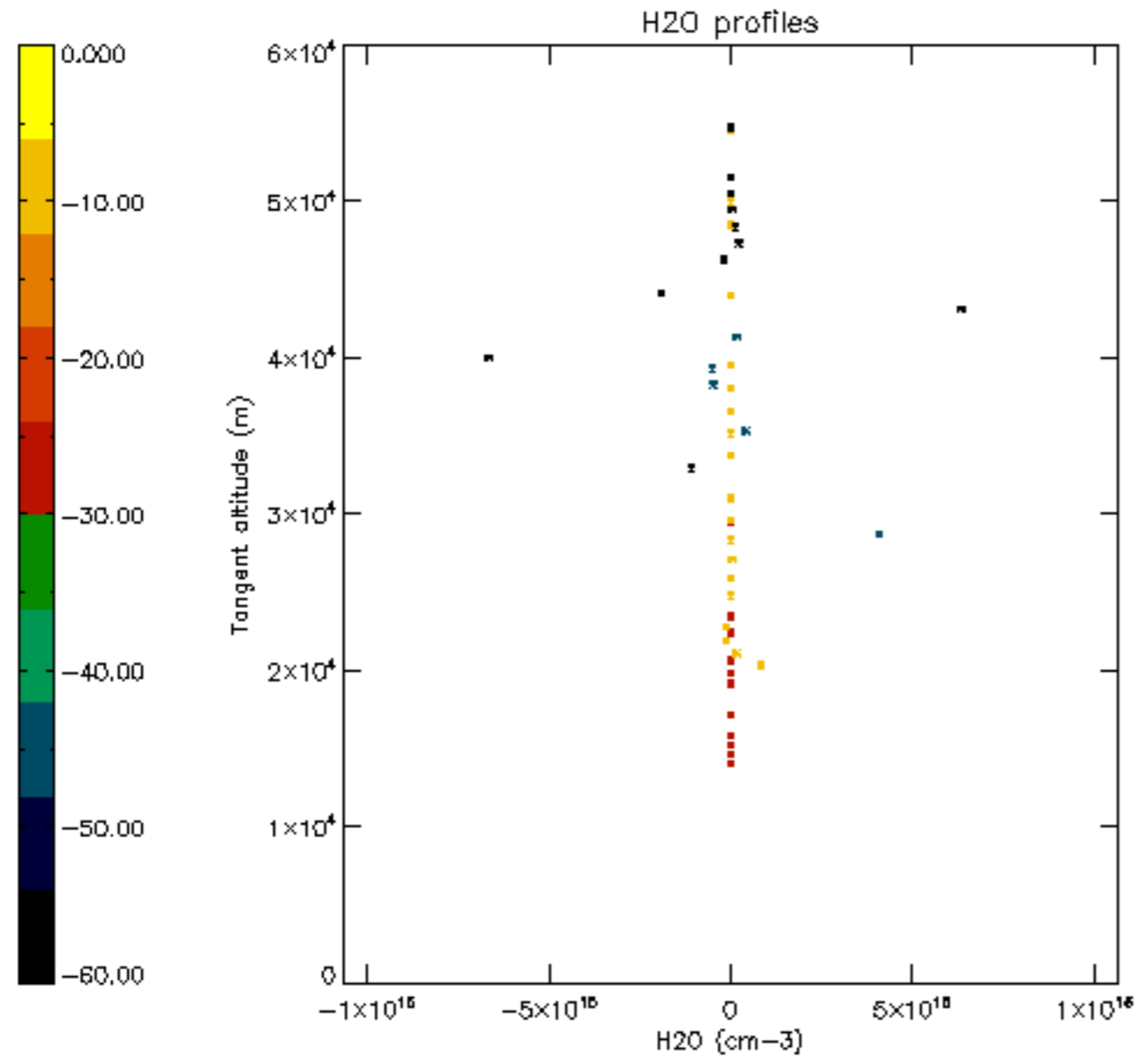


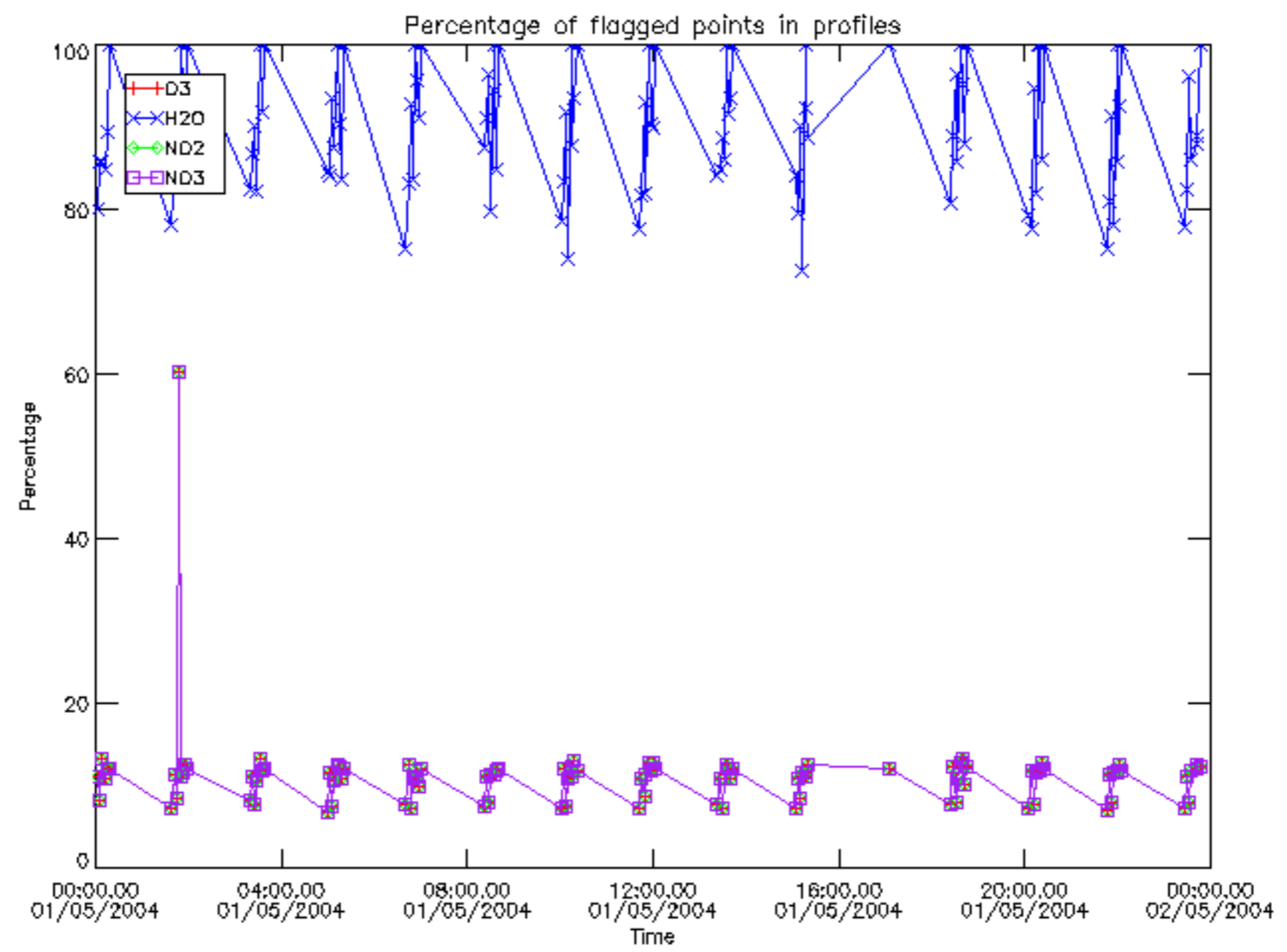




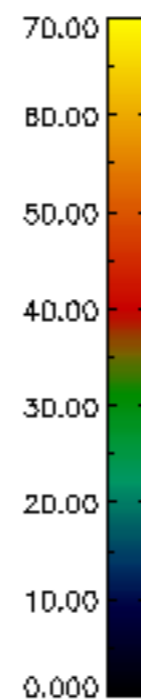
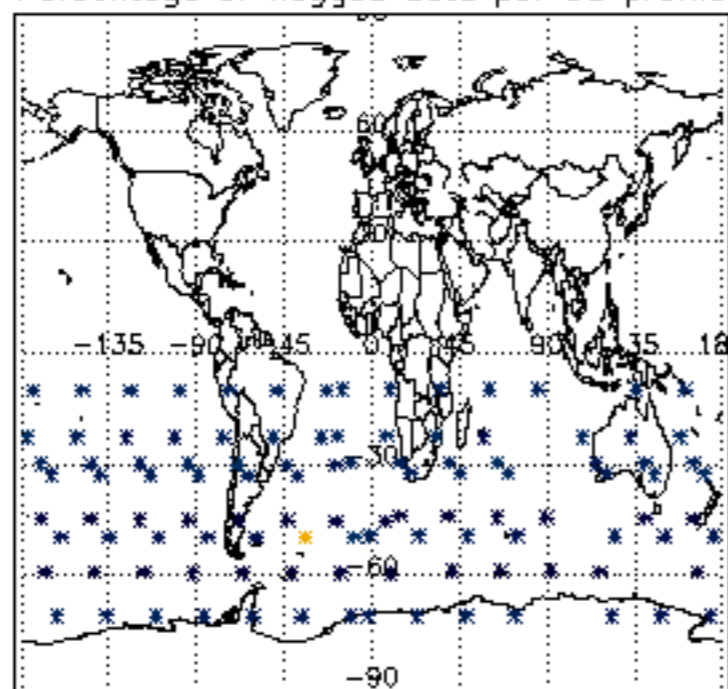




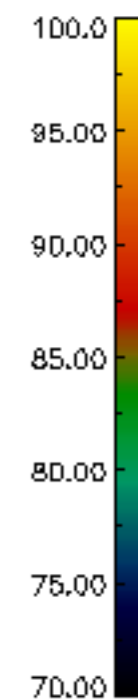
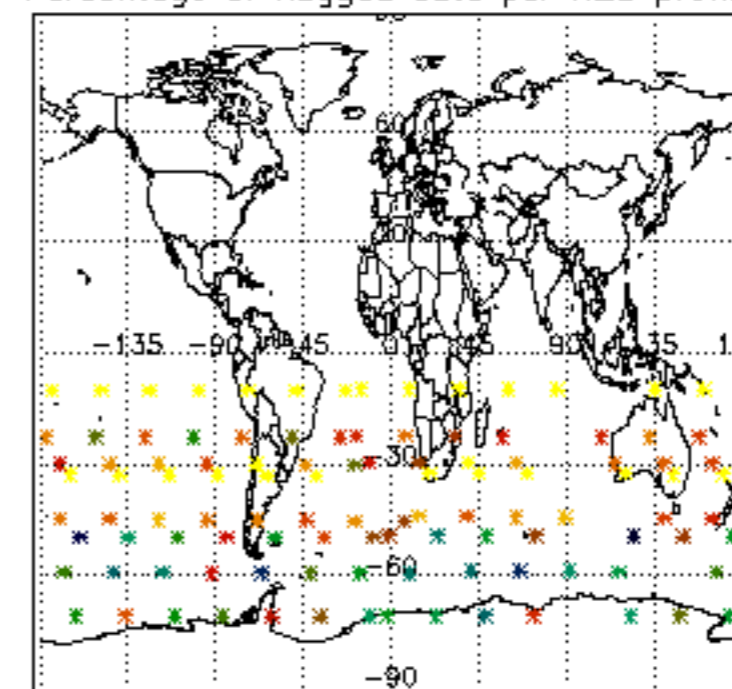




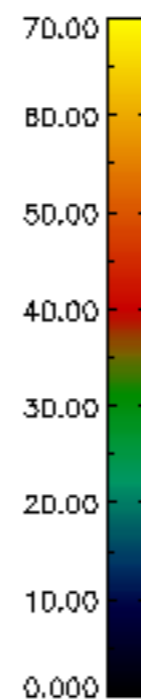
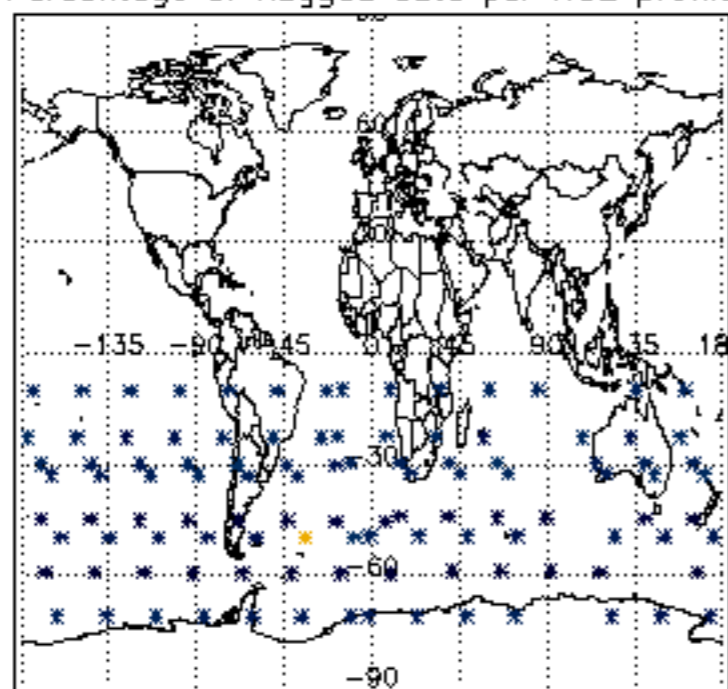
Percentage of flagged data per D3 profile



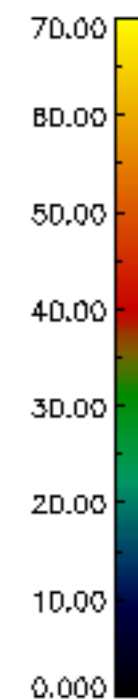
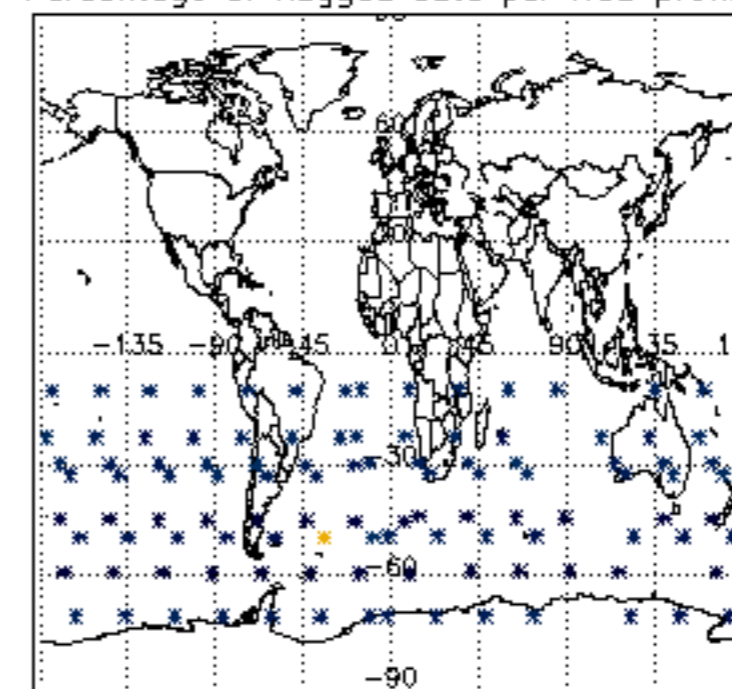
Percentage of flagged data per H2O profile

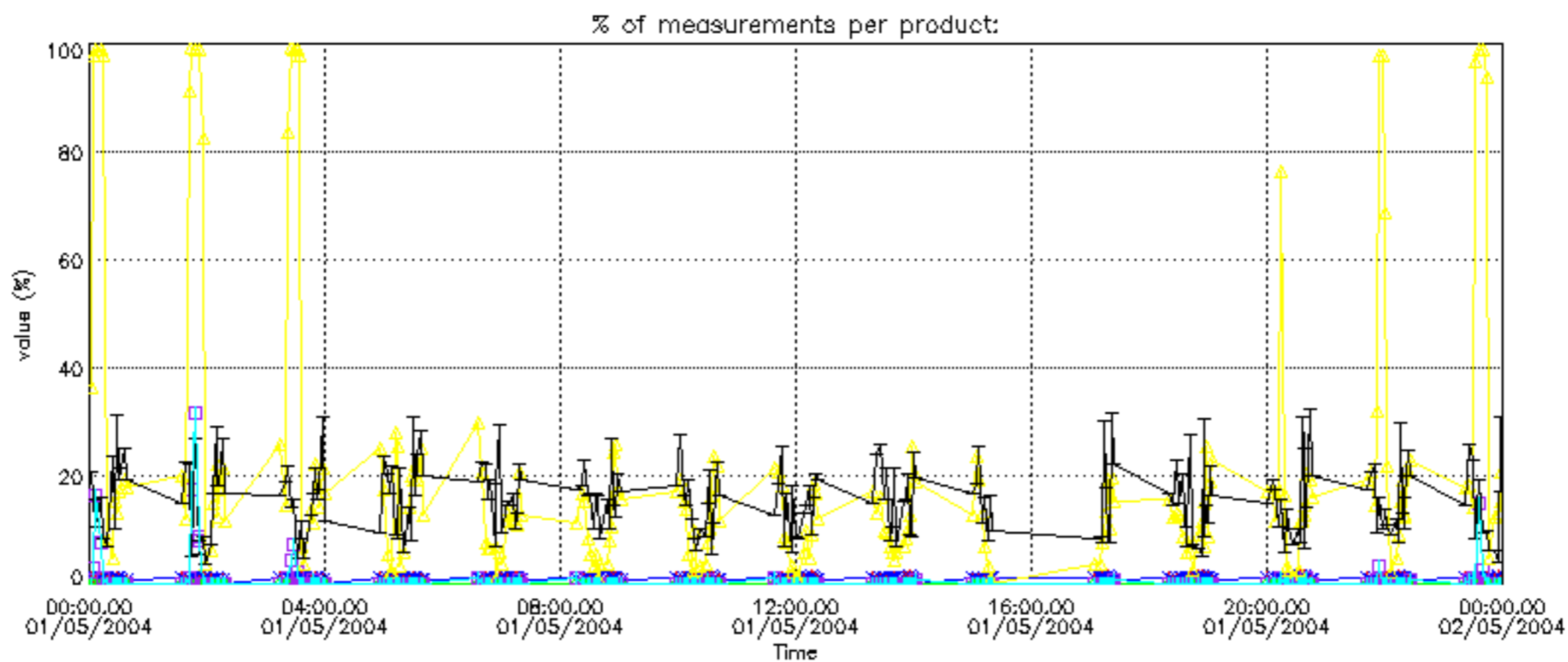
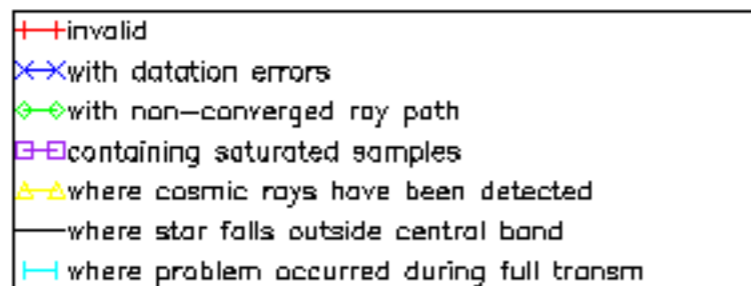


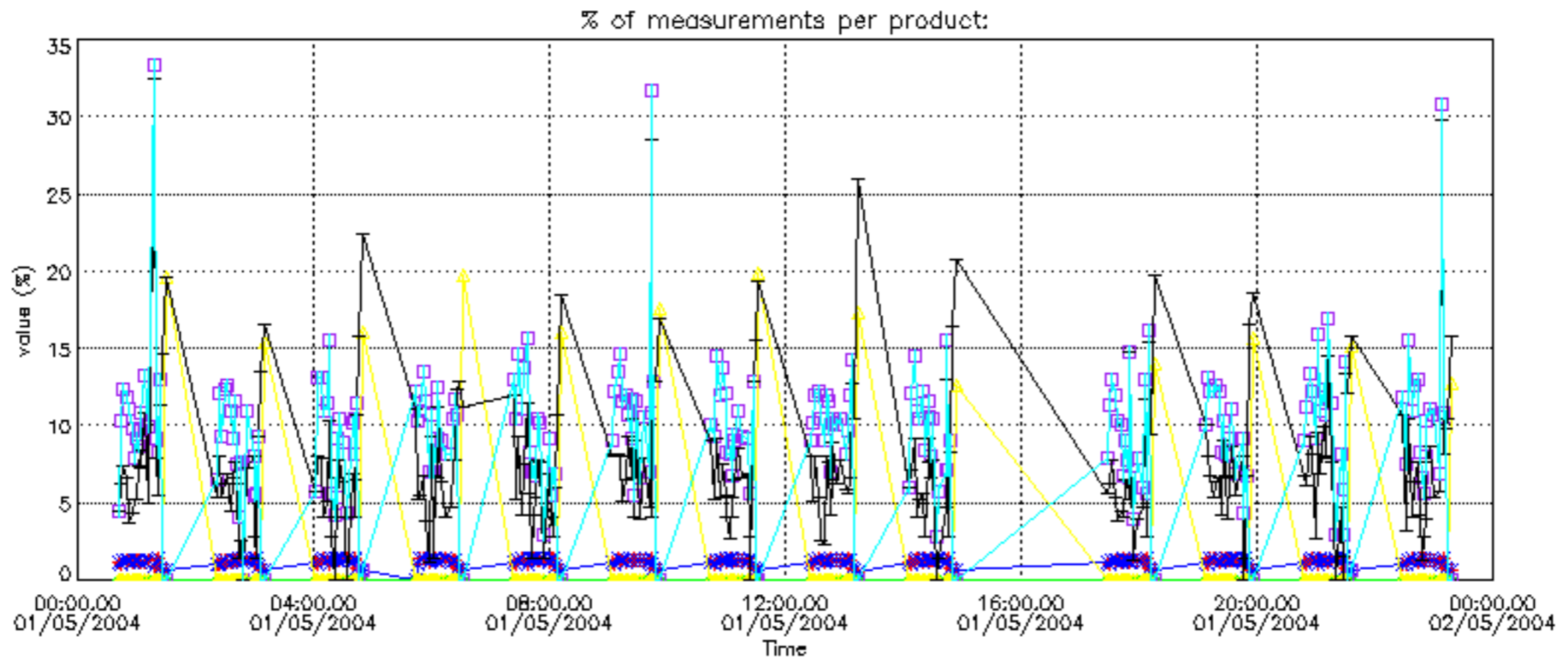
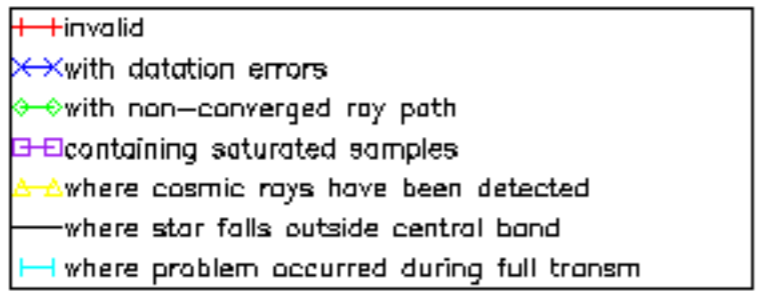
Percentage of flagged data per NO2 profile



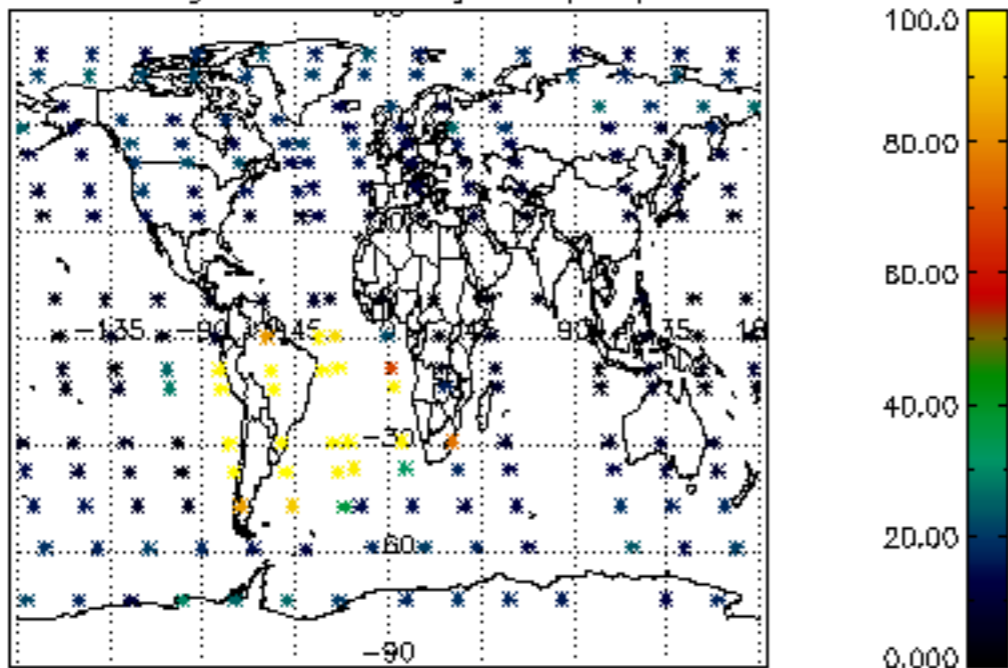
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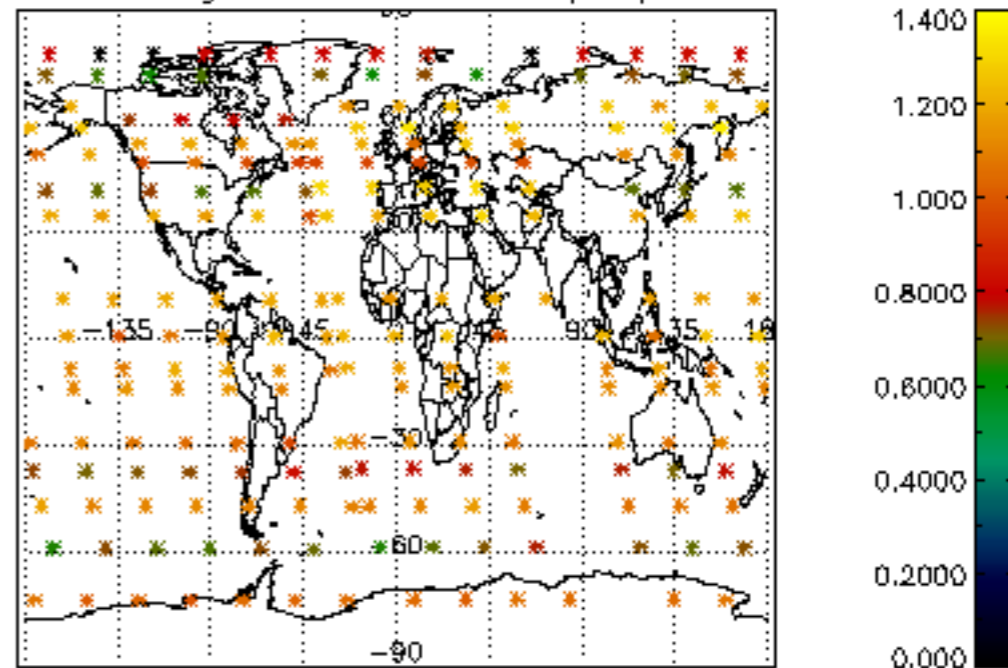




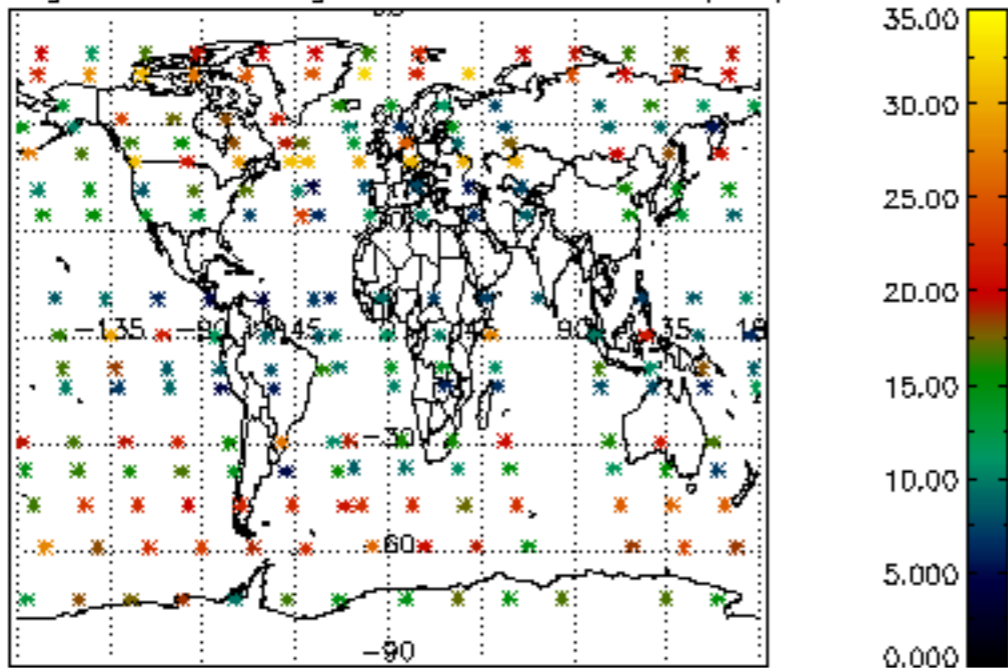
Percentage of cosmic ray hits per profile



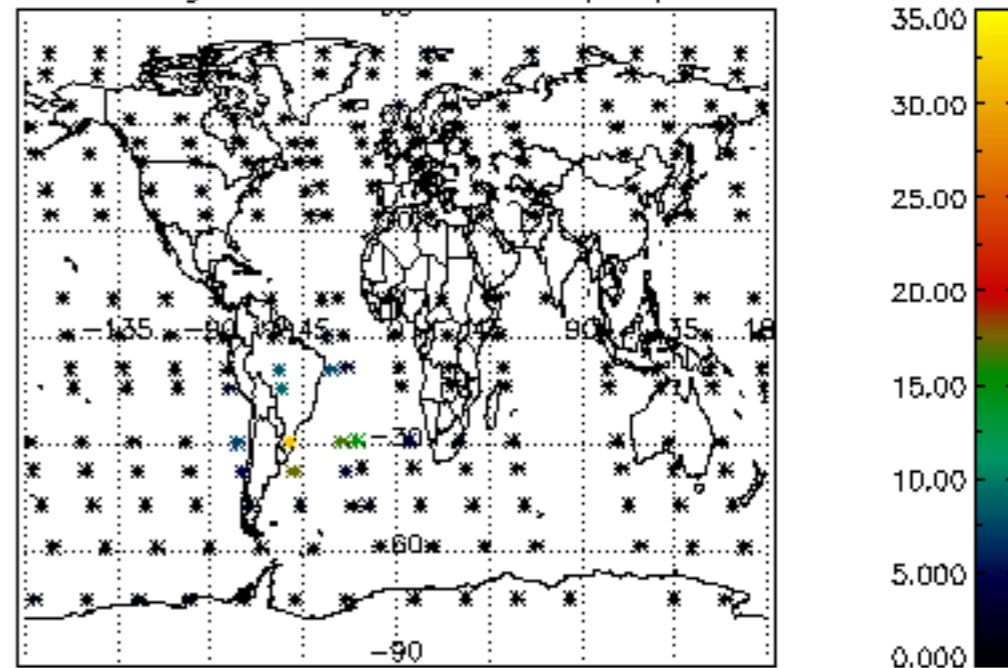
Percentage of datation errors per profile



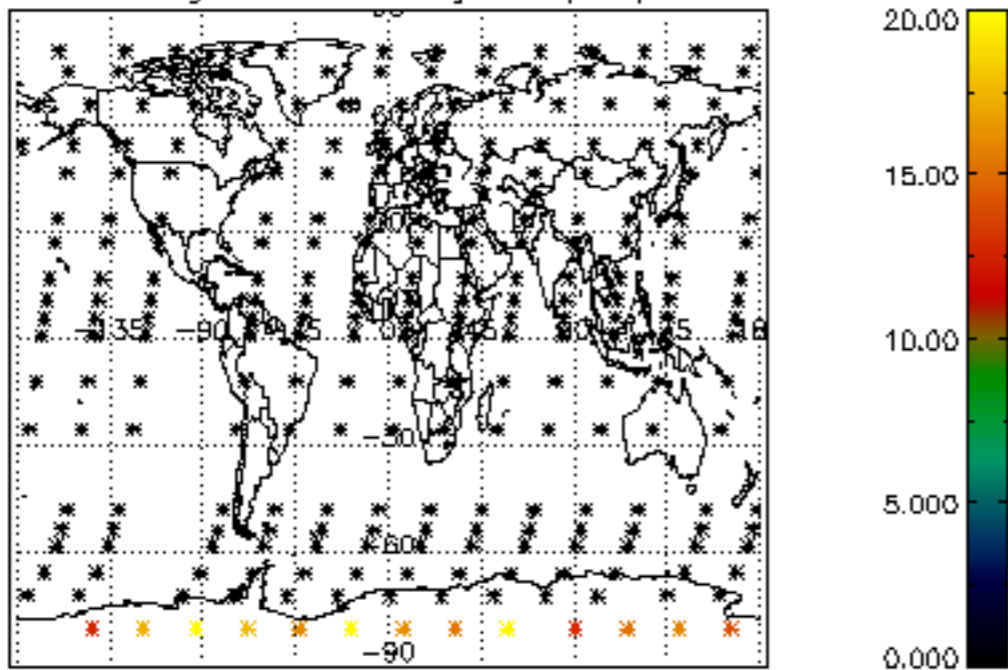
Percentage of star falling outside central band per profile



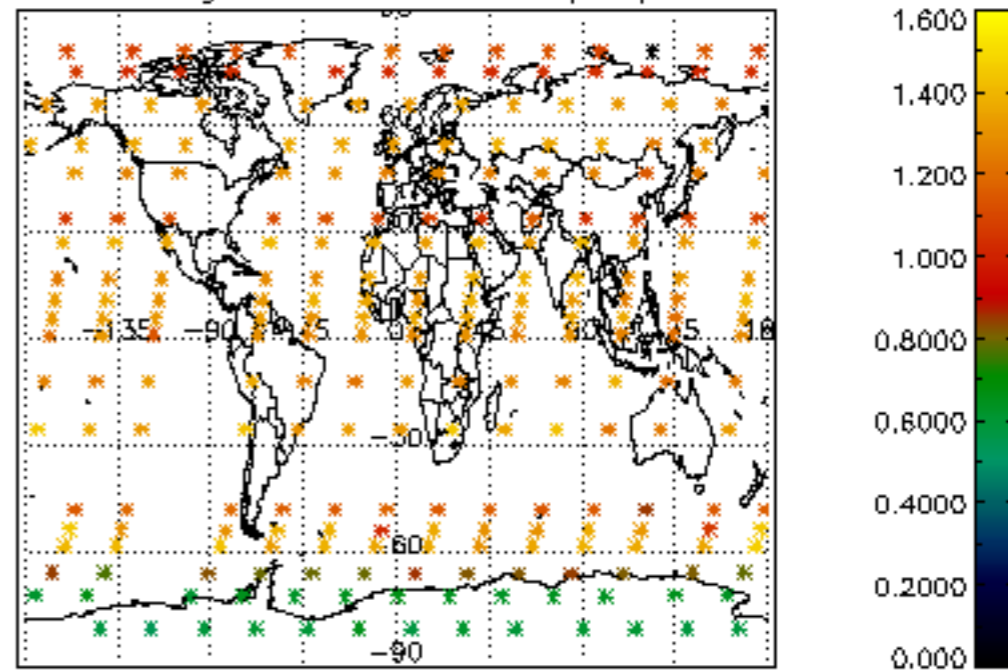
Percentage of saturation errors per profile



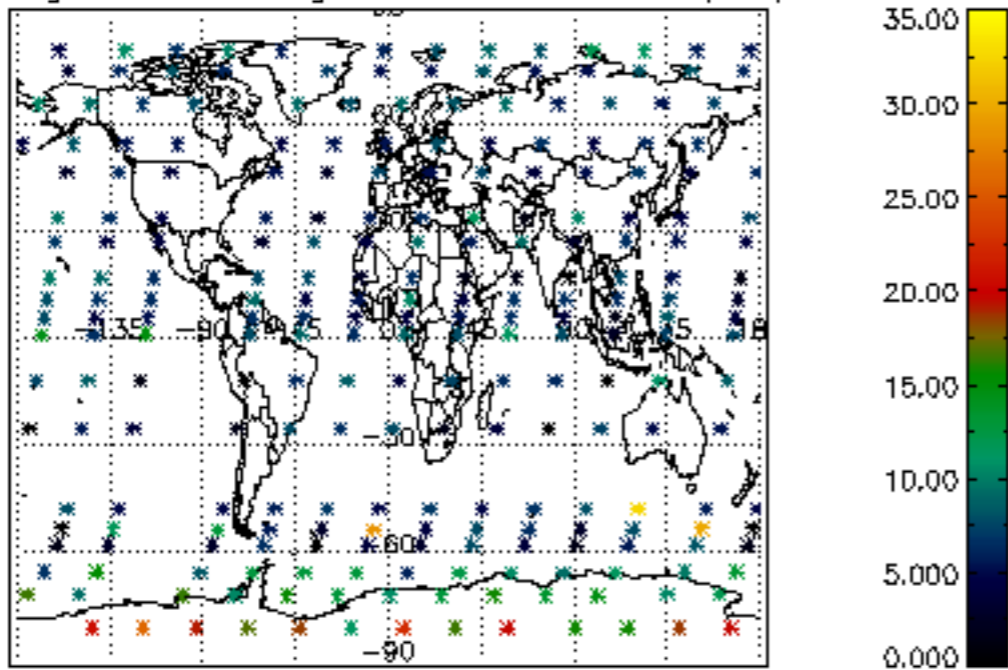
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

