

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

[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](#)

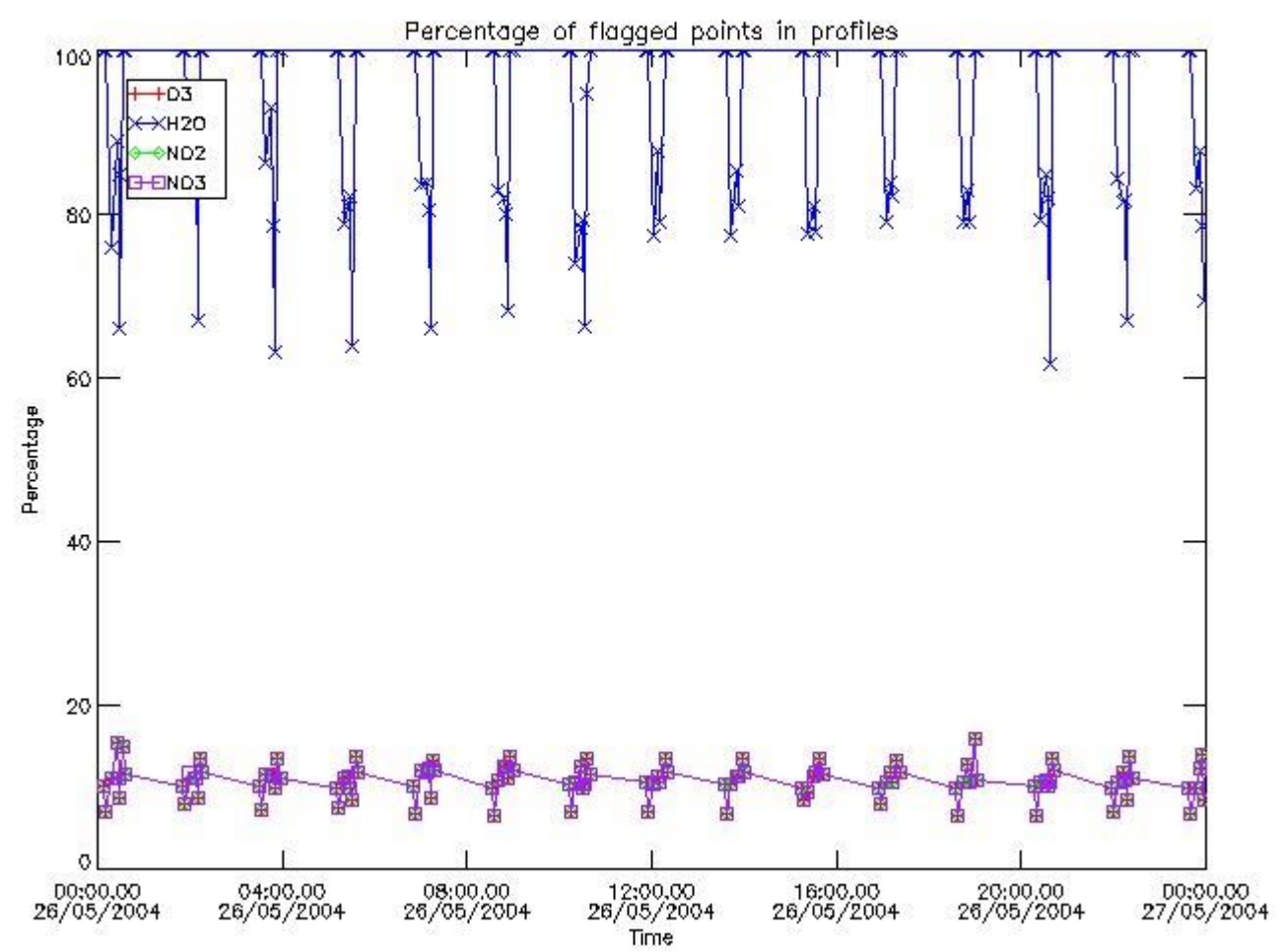
This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also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

Item	Value
Time of report generation	19APR2013 02:52:10
Data source version	GOMOS/6.01
Start time of products	26-05-2004 (26MAY2004 00:00:00)
Stop time of products	27-05-2004 (27MAY2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	447
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

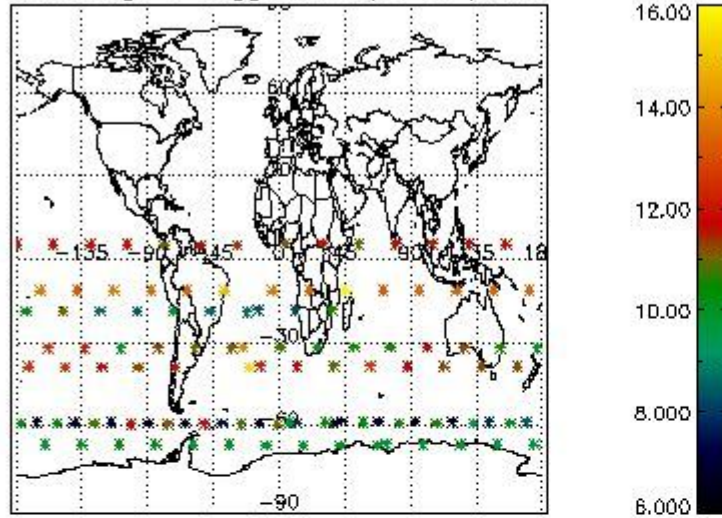
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20040526_000136_000000452027_00116_11693_2889.N1	26-MAY-2004 00:01:36	Bright	45.000	53	43Bet And	2.0480	3300.0	90	11693	No
2	GOM_NL__2PRFIN20040526_000412_000000512027_00116_11693_2890.N1	26-MAY-2004 00:04:12	Twilight_stray	51.000	58	21Alp And	2.0730	11000.	102	11693	No
3	GOM_NL__2PRFIN20040526_000847_000000512027_00116_11693_2891.N1	26-MAY-2004 00:08:47	Dark	50.500	140	88Gam Peg	2.8340	26000.	101	11693	No
4	GOM_NL__2PRFIN20040526_001115_000000742027_00116_11693_2892.N1	26-MAY-2004 00:11:15	Dark	74.000	90	54Alp Peg	2.4870	11000.	148	11693	No
5	GOM_NL__2PRFIN20040526_001739_000000462027_00116_11693_2893.N1	26-MAY-2004 00:17:39	Dark	46.000	52	16Bet Cet	2.0370	4500.0	92	11693	No
6	GOM_NL__2PRFIN20040526_002424_000000462027_00116_11693_2894.N1	26-MAY-2004 00:24:24	Dark	46.000	84	Alp Phe	2.3970	4500.0	92	11693	No
7	GOM_NL__2PRFIN20040526_002703_000000502027_00116_11693_2895.N1	26-MAY-2004 00:27:03	Dark	50.000	9	Alp Eri	0.45300	24000.	100	11693	No
8	GOM_NL__2PRFIN20040526_002918_000000582027_00117_11694_2878.N1	26-MAY-2004 00:29:18	Dark	58.000	63	Bet Gru	2.1500	2800.0	116	11694	No
9	GOM_NL__2PRFIN20040526_003253_000000382027_00117_11694_2879.N1	26-MAY-2004 00:32:53	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	11694	No
10	GOM_NL__2PRFIN20040526_003619_000000452027_00117_11694_2880.N1	26-MAY-2004 00:36:19	Dark	44.500	45	Alp Pav	1.9400	26000.	89	11694	No
11	GOM_NL__2PRFIN20040526_004033_000000472027_00117_11694_2881.N1	26-MAY-2004 00:40:33	Straylight	47.000	43	Alp TrA	1.9100	4250.0	94	11694	No
12	GOM_NL__2PRFIN20040526_004239_000000432027_00117_11694_2882.N1	26-MAY-2004 00:42:39	Straylight	43.000	134	Bet TrA	2.8100	6600.0	86	11694	No
13	GOM_NL__2PRFIN20040526_004409_000000472027_00117_11694_2883.N1	26-MAY-2004 00:44:09	Straylight	47.000	4	Alp1Cen	-0.010000	5800.0	94	11694	No
14	GOM_NL__2PRFIN20040526_004641_000000612027_00117_11694_2884.N1	26-MAY-2004 00:46:41	Straylight	60.500	38	20Eps Sgr	1.8360	11000.	121	11694	No
15	GOM_NL__2PRFIN20040526_004830_000000802027_00117_11694_2885.N1	26-MAY-2004 00:48:30	Twilight_stray	80.000	57	34Sig Sgr	2.0660	26000.	160	11694	No
16	GOM_NL__2PRFIN20040526_005139_000000462027_00117_11694_2886.N1	26-MAY-2004 00:51:39	Twilight_stray	45.500	136	23Tau Sco	2.8220	30000.	91	11694	No
17	GOM_NL__2PRFIN20040526_005348_000000472027_00117_11694_2887.N1	26-MAY-2004 00:53:48	Bright	46.500	80	7Del Sco	2.3160	30000.	93	11694	No
18	GOM_NL__2PRFIN20040526_005531_000000512027_00117_11694_2888.N1	26-MAY-2004 00:55:31	Bright	51.000	86	35Eta Oph	2.4300	10200.	102	11694	No
19	GOM_NL__2PRFIN20040526_005806_000000392027_00117_11694_2889.N1	26-MAY-2004 00:58:06	Bright	39.000	104	27Bet Lib	2.6140	13100.	78	11694	No
20	GOM_NL__2PRFIN20040526_005943_000000452027_00117_11694_2890.N1	26-MAY-2004 00:59:43	Bright	44.500	120	1Del Oph	2.7340	3200.0	89	11694	No
21	GOM_NL__2PRFIN20040526_010247_000000402027_00117_11694_2891.N1	26-MAY-2004 01:02:47	Bright	40.000	102	24Alp Ser	2.6000	4250.0	80	11694	No
22	GOM_NL__2PRFIN20040526_010629_000000382027_00117_11694_2892.N1	26-MAY-2004 01:06:29	Bright	37.500	3	16Alp Boo	-0.050000	4250.0	75	11694	No
23	GOM_NL__2PRFIN20040526_010836_000000392027_00117_11694_2893.N1	26-MAY-2004 01:08:36	Bright	38.500	83		2.3780	11000.	77	11694	No
24	GOM_NL__2PRFIN20040526_011146_000000382027_00117_11694_2894.N1	26-MAY-2004 01:11:46	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	11694	No
25	GOM_NL__2PRFIN20040526_011501_000000382027_00117_11694_2895.N1	26-MAY-2004 01:15:01	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	11694	No
26	GOM_NL__2PRFIN20040526_011645_000000402027_00117_11694_2896.N1	26-MAY-2004 01:16:45	Bright	39.500	55	79Zet UMa	2.0600	10200.	79	11694	No
27	GOM_NL__2PRFIN20040526_011938_000000422027_00117_11694_2897.N1	26-MAY-2004 01:19:38	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	11694	No
28	GOM_NL__2PRFIN20040526_012157_000000402027_00117_11694_2898.N1	26-MAY-2004 01:21:57	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	11694	No
29	GOM_NL__2PRFIN20040526_012634_000000392027_00117_11694_2899.N1	26-MAY-2004 01:26:34	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	11694	No
30	GOM_NL__2PRFIN20040526_013023_000000472027_00117_11694_2900.N1	26-MAY-2004 01:30:23	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	11694	No
31	GOM_NL__2PRFIN20040526_013442_000000372027_00117_11694_2901.N1	26-MAY-2004 01:34:42	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	11694	No
32	GOM_NL__2PRFIN20040526_013553_000000412027_00117_11694_2902.N1	26-MAY-2004 01:35:53	Bright	40.500	68	18Alp Cas	2.2250	4500.0	81	11694	No
33	GOM_NL__2PRFIN20040526_014212_000000422027_00117_11694_2903.N1	26-MAY-2004 01:42:12	Bright	41.500	53	43Bet And	2.0480	3300.0	83	11694	No
34	GOM_NL__2PRFIN20040526_014448_000000532027_00117_11694_2904.N1	26-MAY-2004 01:44:48	Twilight_stray	52.500	58	21Alp And	2.0730	11000.	105	11694	No
35	GOM_NL__2PRFIN20040526_014923_000000502027_00117_11694_2905.N1	26-MAY-2004 01:49:23	Dark	50.000	140	88Gam Peg	2.8340	26000.	100	11694	No
36	GOM_NL__2PRFIN20040526_015152_000000722027_00117_11694_2906.N1	26-MAY-2004 01:51:52	Dark	71.500	90	54Alp Peg	2.4870	11000.	143	11694	No
37	GOM_NL__2PRFIN20040526_015815_000000472027_00117_11694_2907.N1	26-MAY-2004 01:58:15	Dark	47.000	52	16Bet Cet	2.0370	4500.0	94	11694	No
38	GOM_NL__2PRFIN20040526_020739_000000462027_00117_11694_2908.N1	26-MAY-2004 02:07:39	Dark	46.000	9	Alp Eri	0.45300	24000.	92	11694	No
39	GOM_NL__2PRFIN20040526_020955_000000582027_00118_11695_2879.N1	26-MAY-2004 02:09:55	Dark	58.000	63	Bet Gru	2.1500	2800.0	116	11695	No
40	GOM_NL__2PRFIN20040526_021329_000000382027_00118_11695_2880.N1	26-MAY-2004 02:13:29	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	11695	No
41	GOM_NL__2PRFIN20040526_021655_000000442027_00118_11695_2881.N1	26-MAY-2004 02:16:55	Dark	43.500	45	Alp Pav	1.9400	26000.	87	11695	No
42	GOM_NL__2PRFIN20040526_022111_000000422027_00118_11695_2882.N1	26-MAY-2004 02:21:11	Straylight	41.500	43	Alp TrA	1.9100	4250.0	83	11695	No

3.1 Plot quality information per product (time dependant)

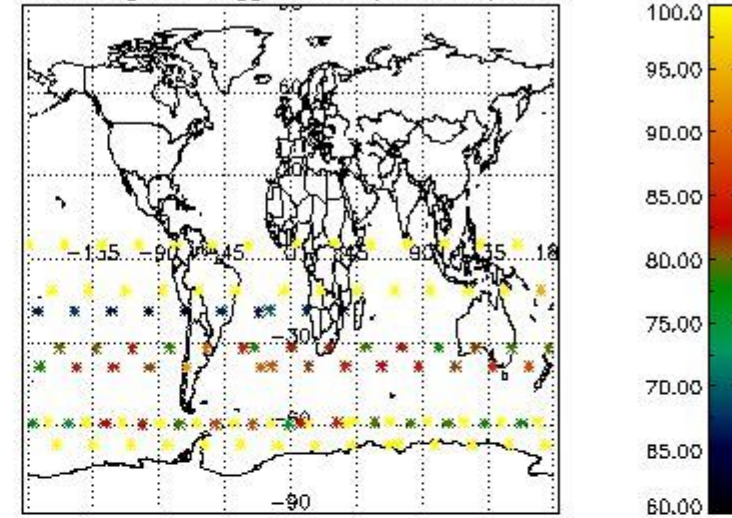


3.2 Plot quality information per product (world map)

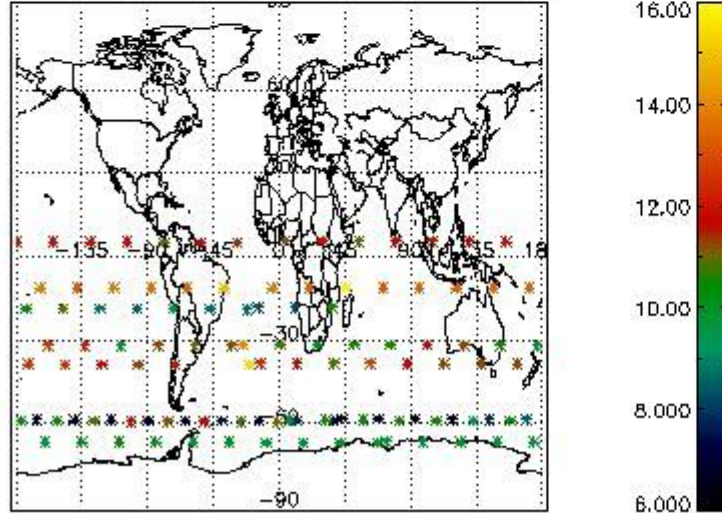
Percentage of flagged data per O3 profile



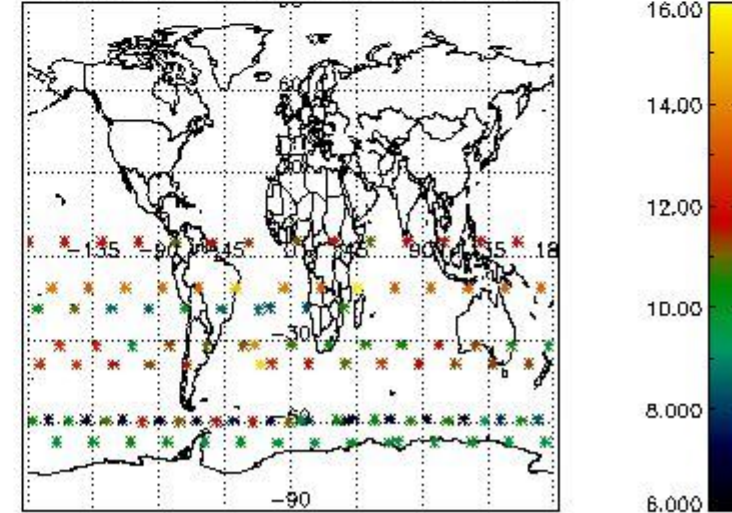
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

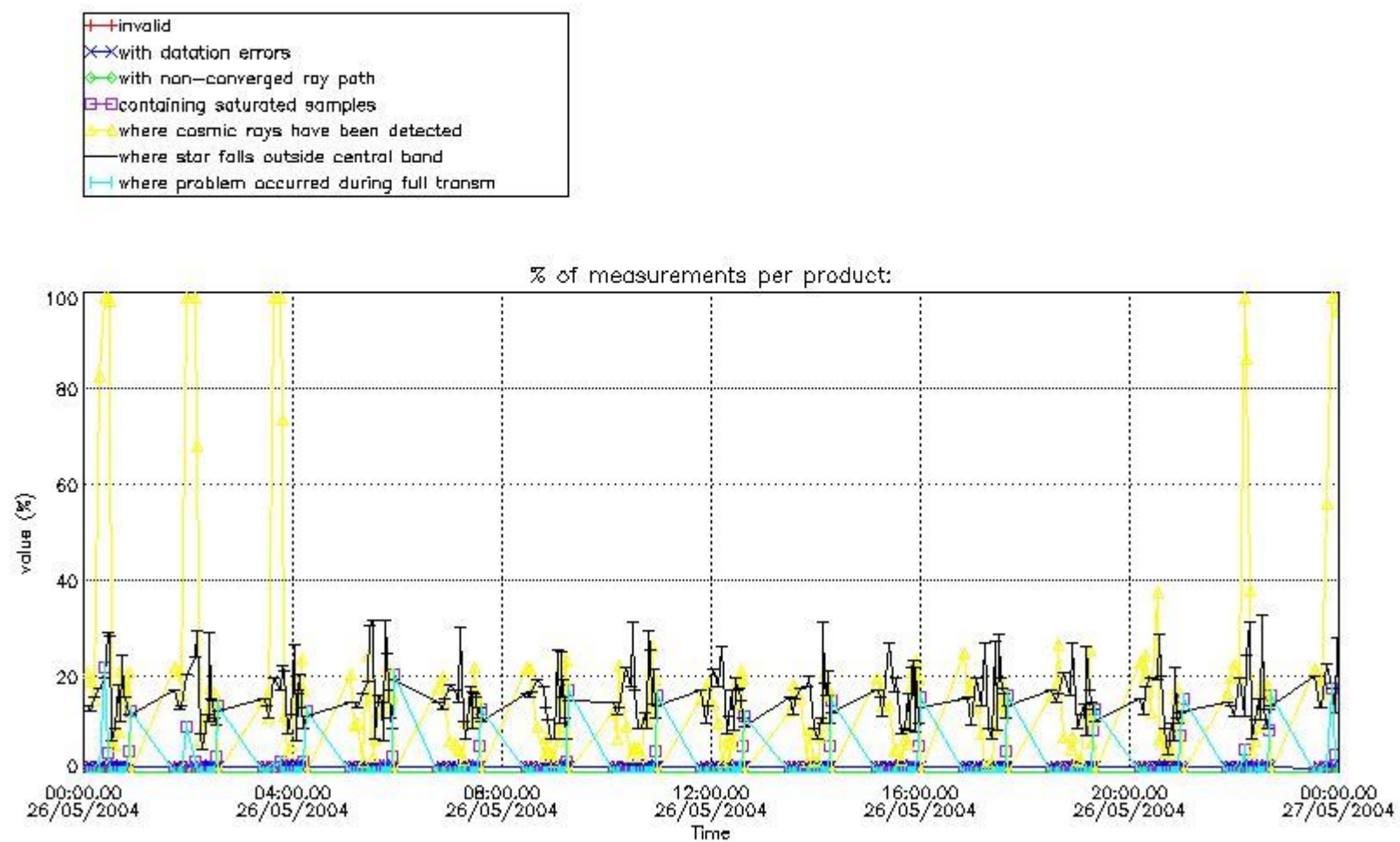


4. Level 1 quality information per product

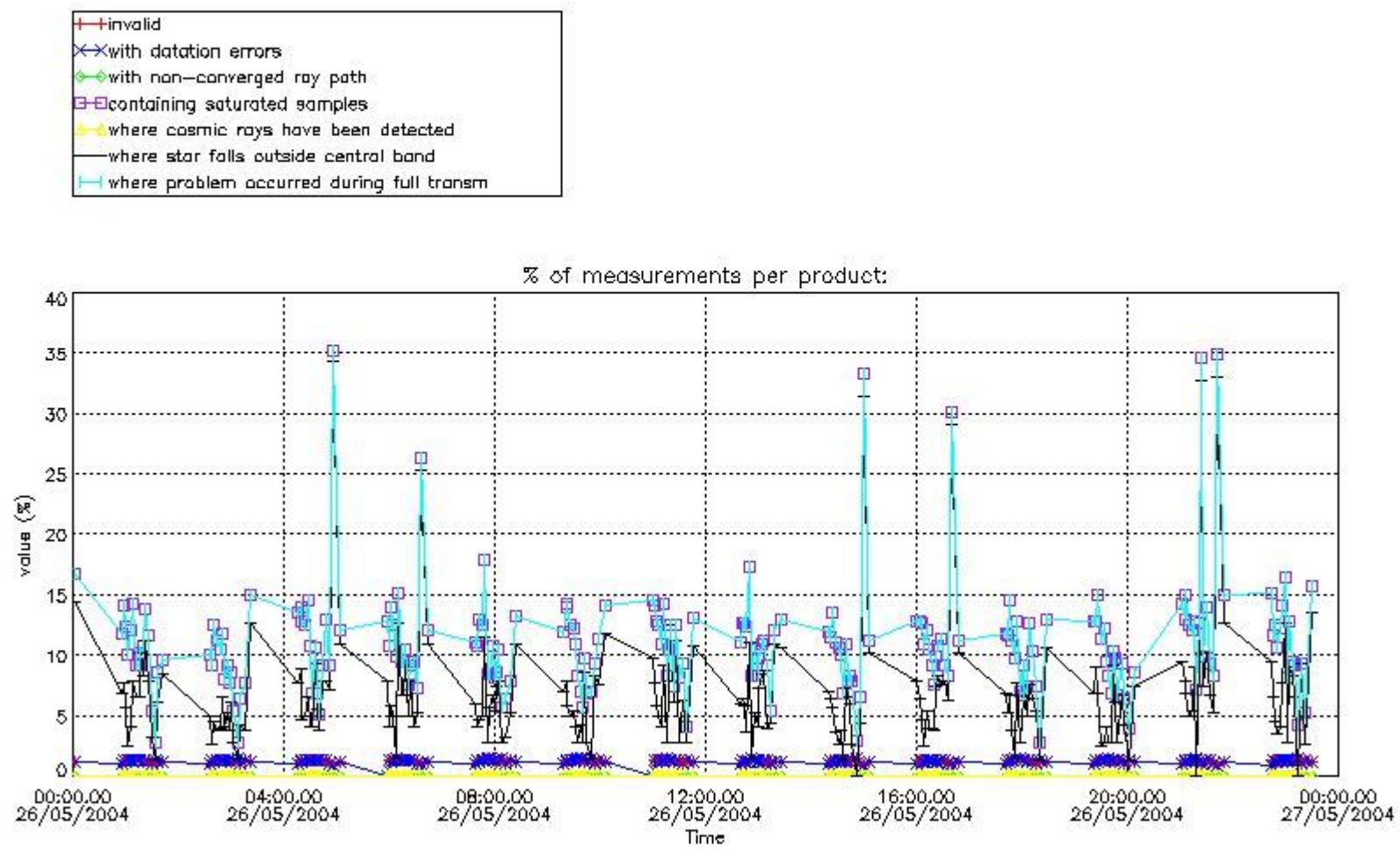
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

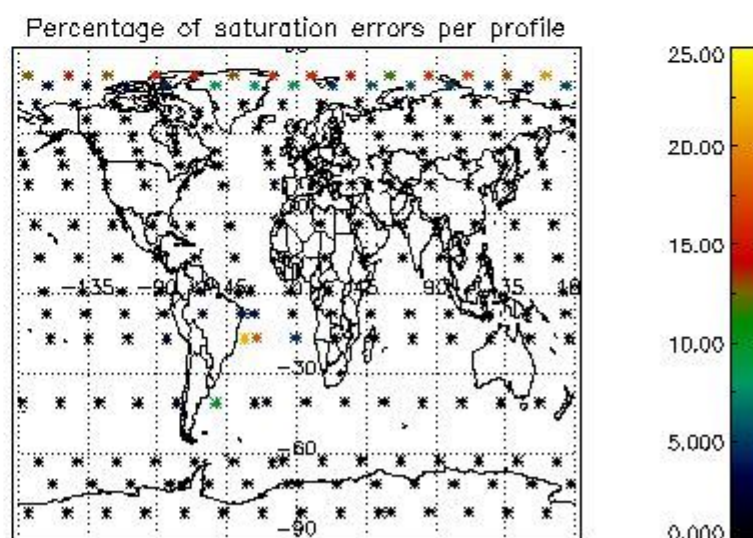
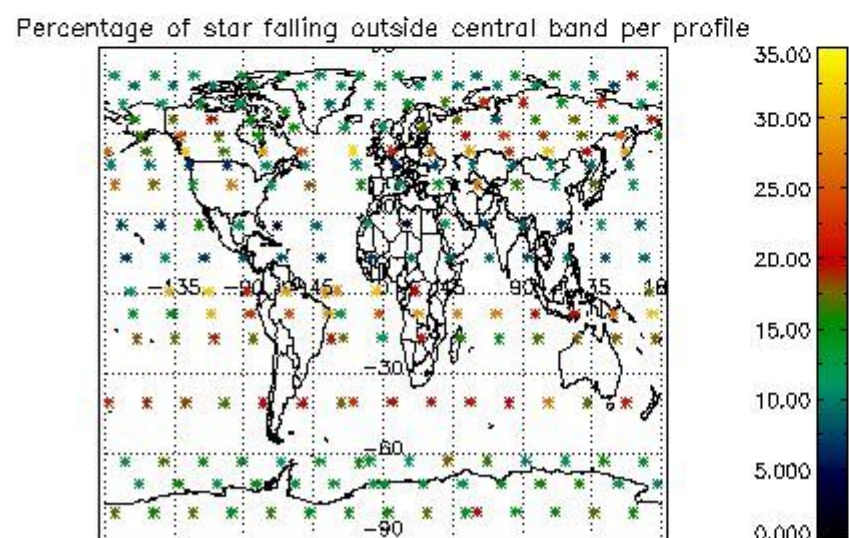
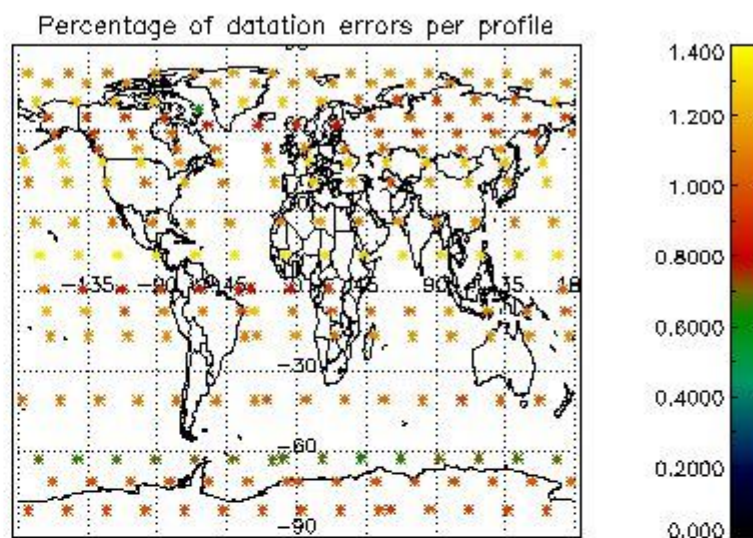
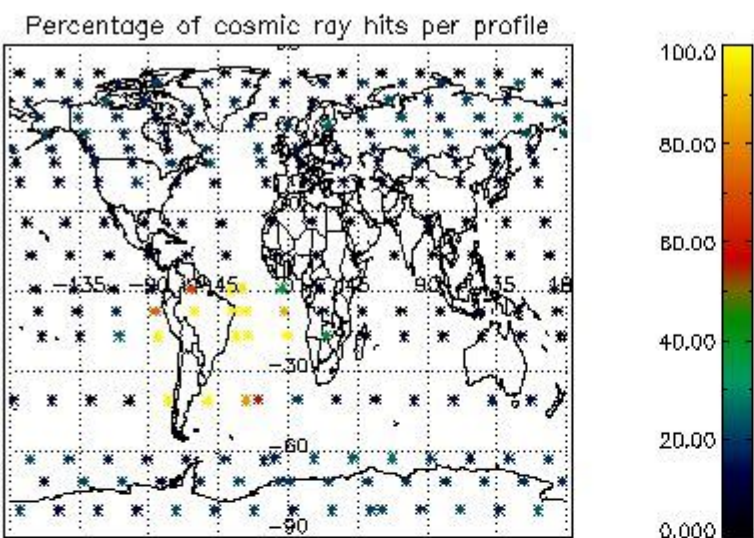


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

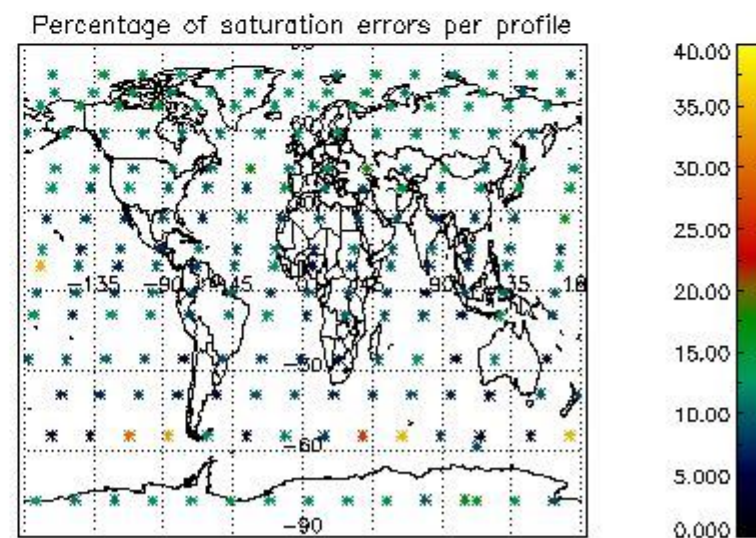
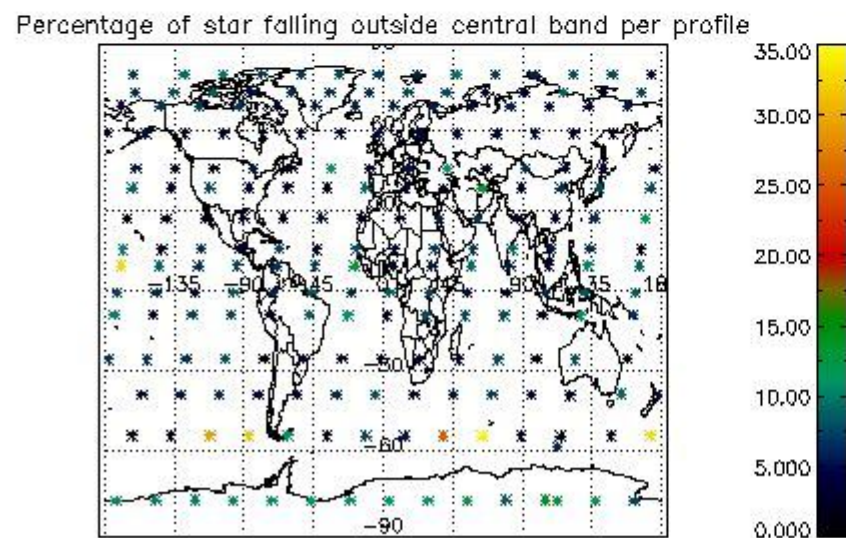
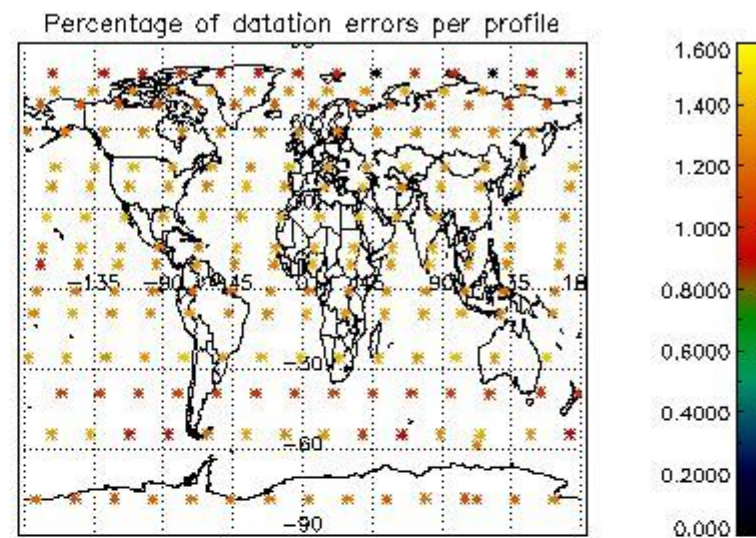
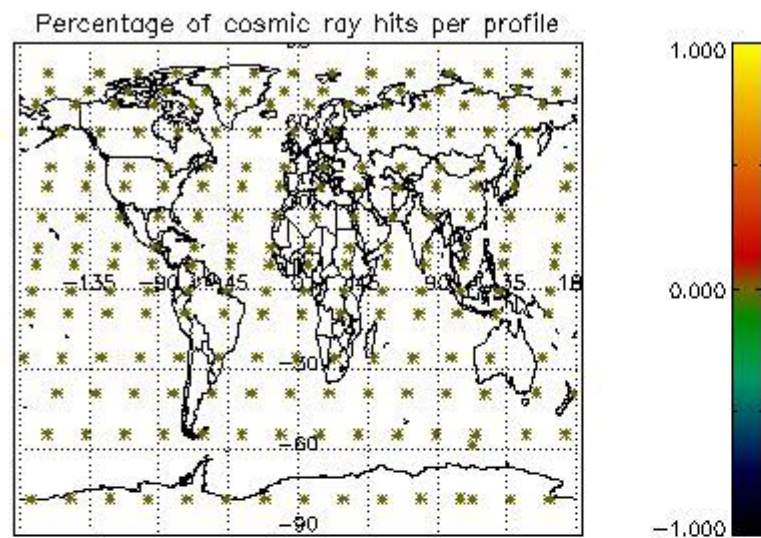


4.2 Plot quality information per product coming from level 1b processing (world map)

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

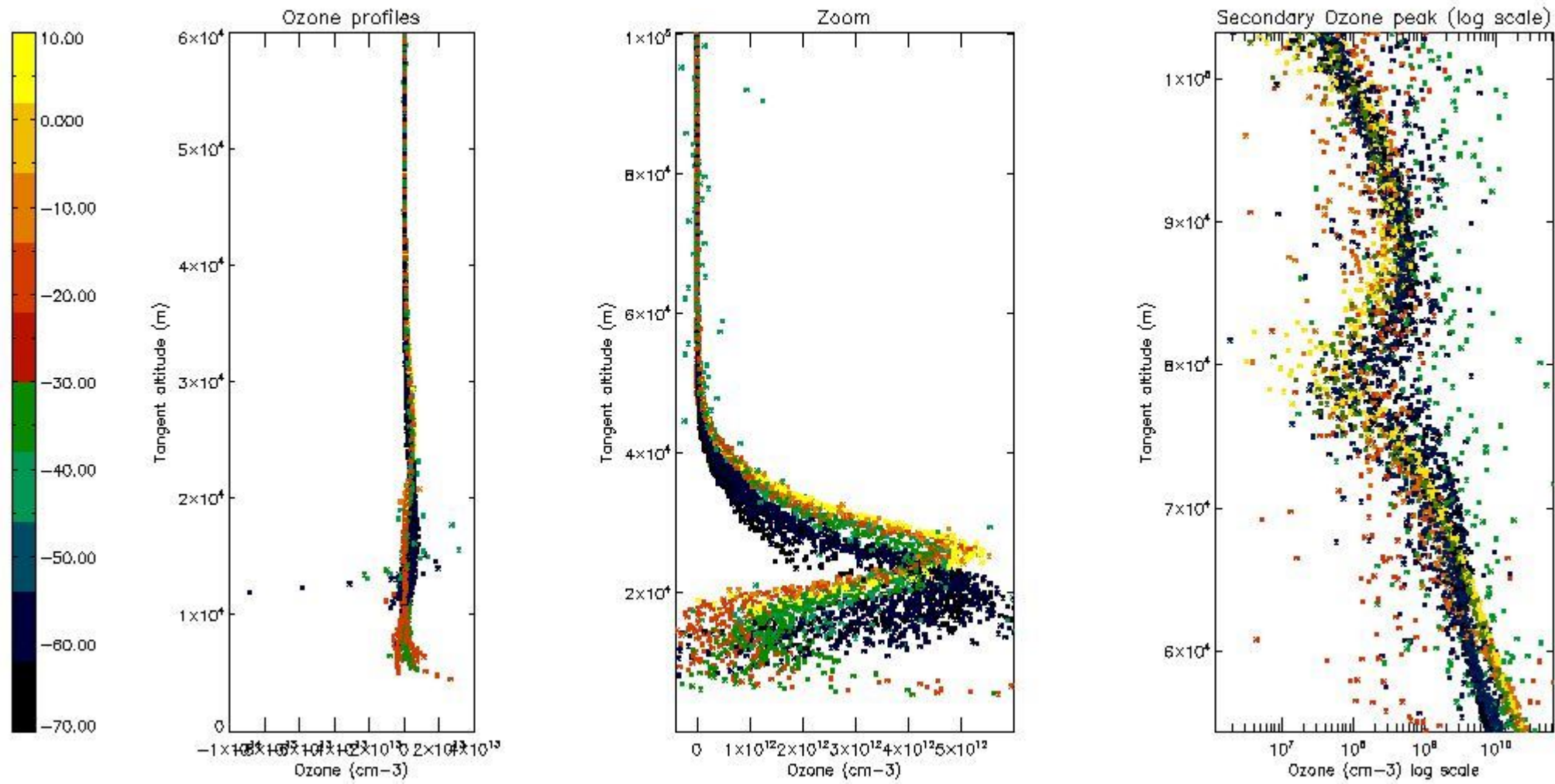
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	15

STD < 10	12
STD < 5	8

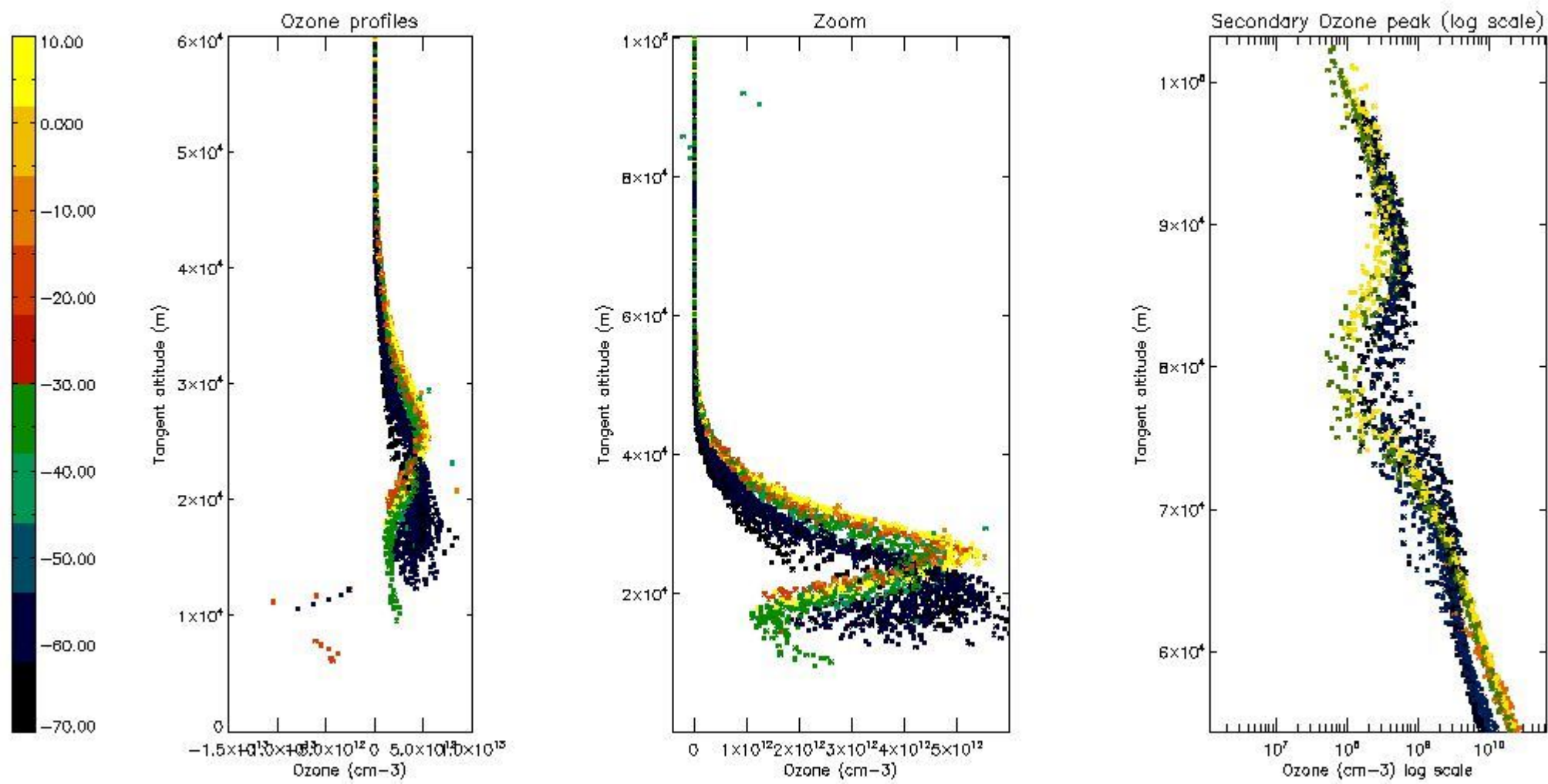
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



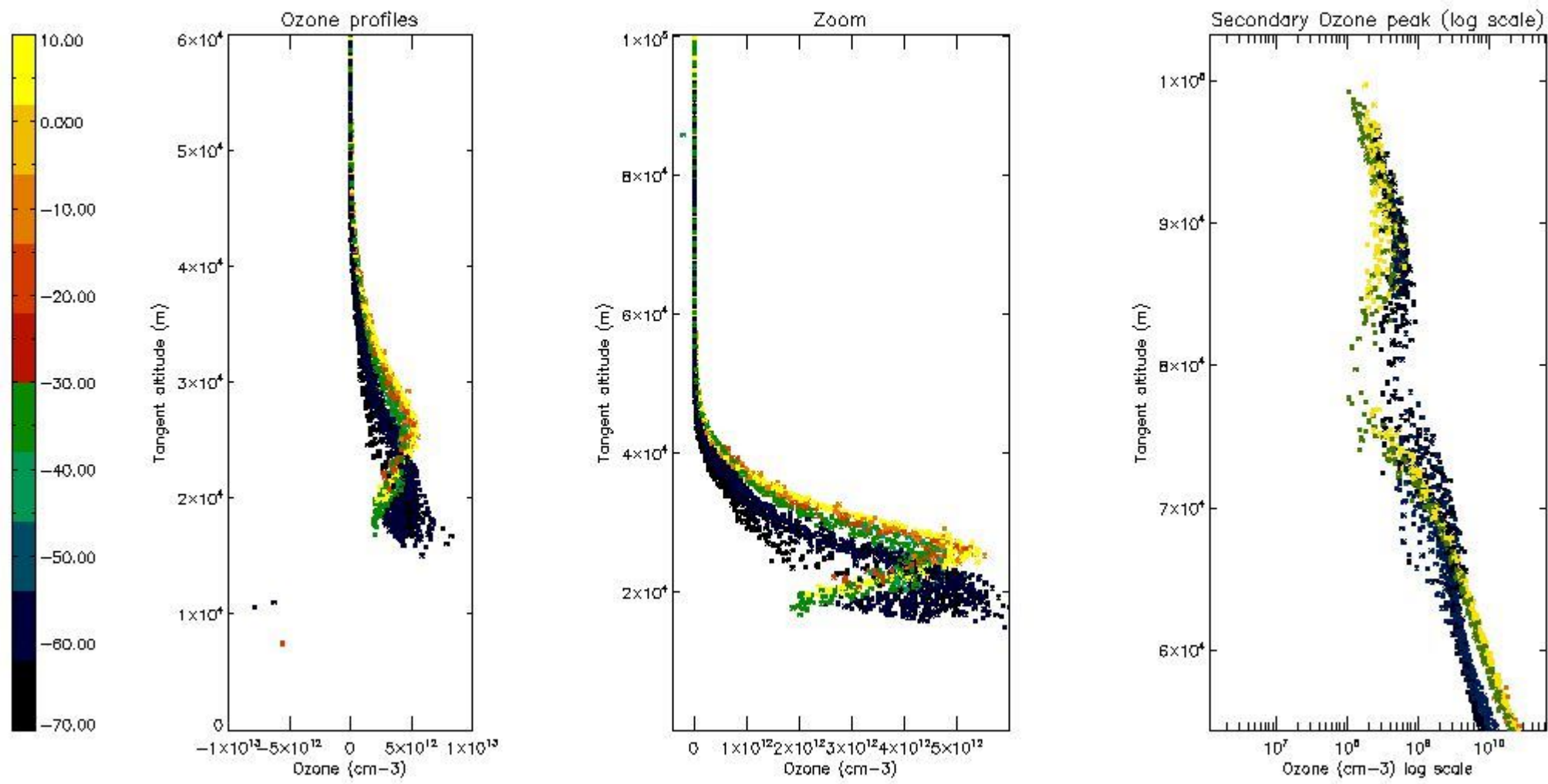
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



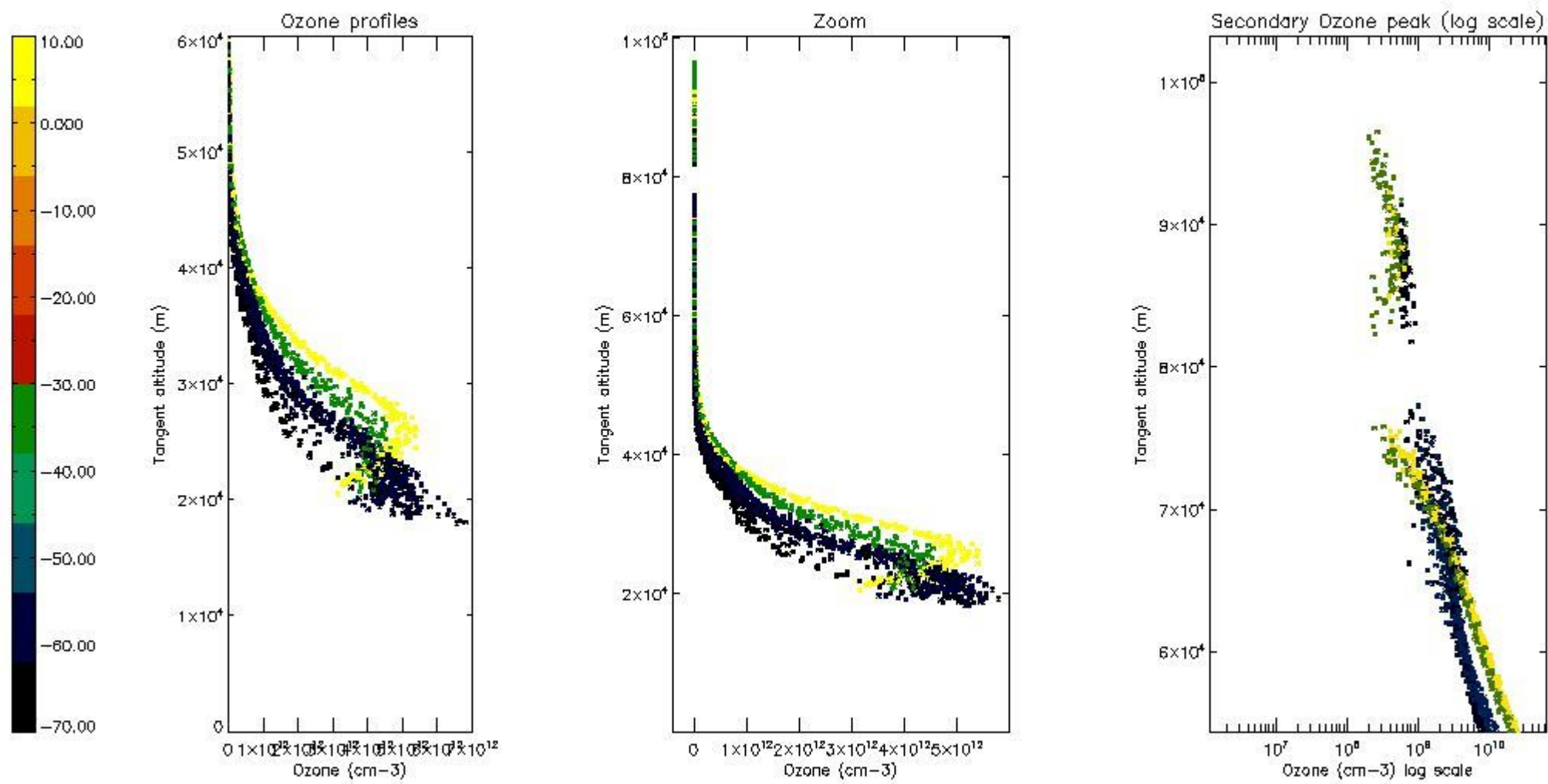
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



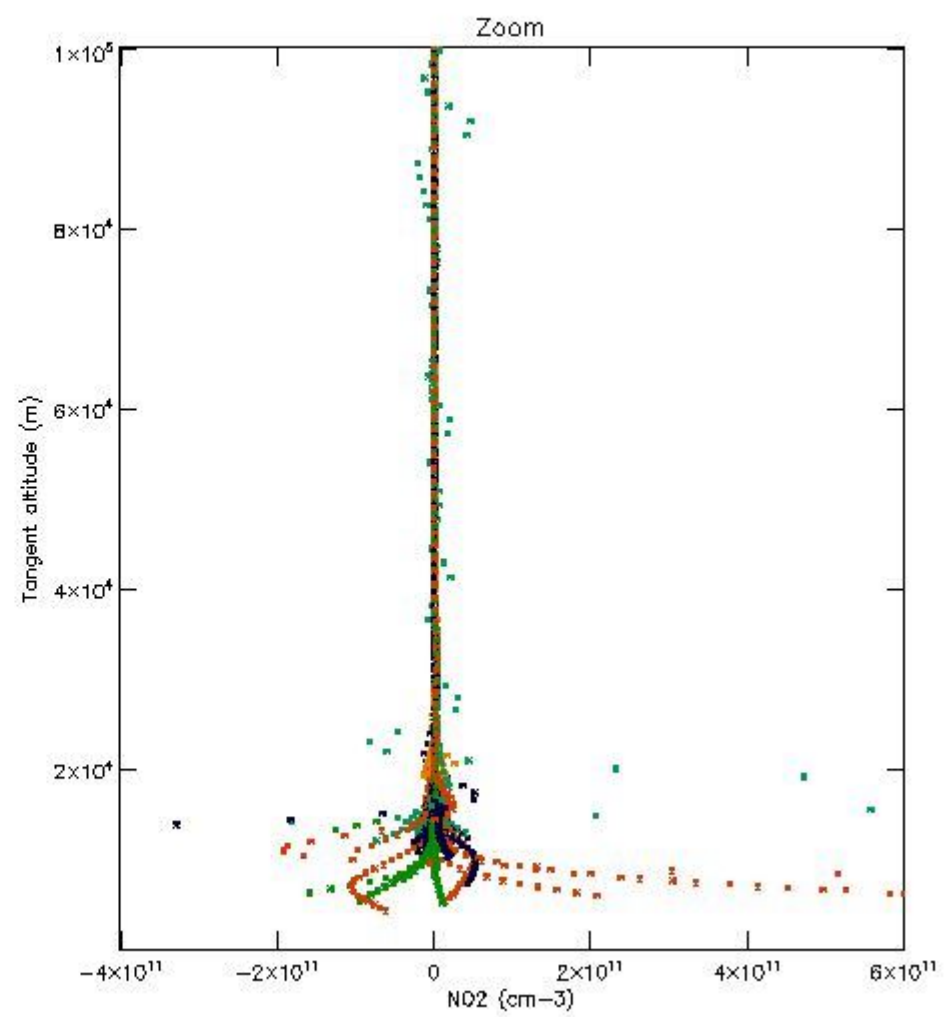
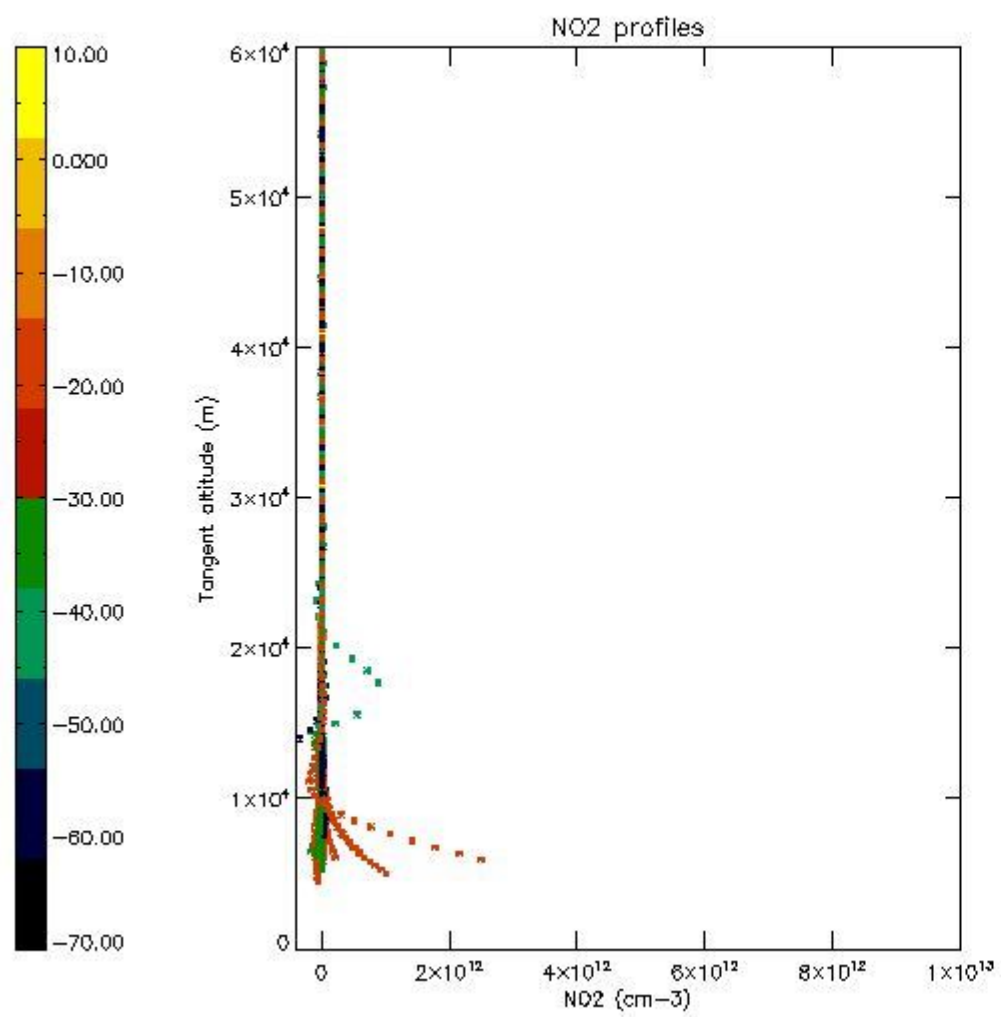
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



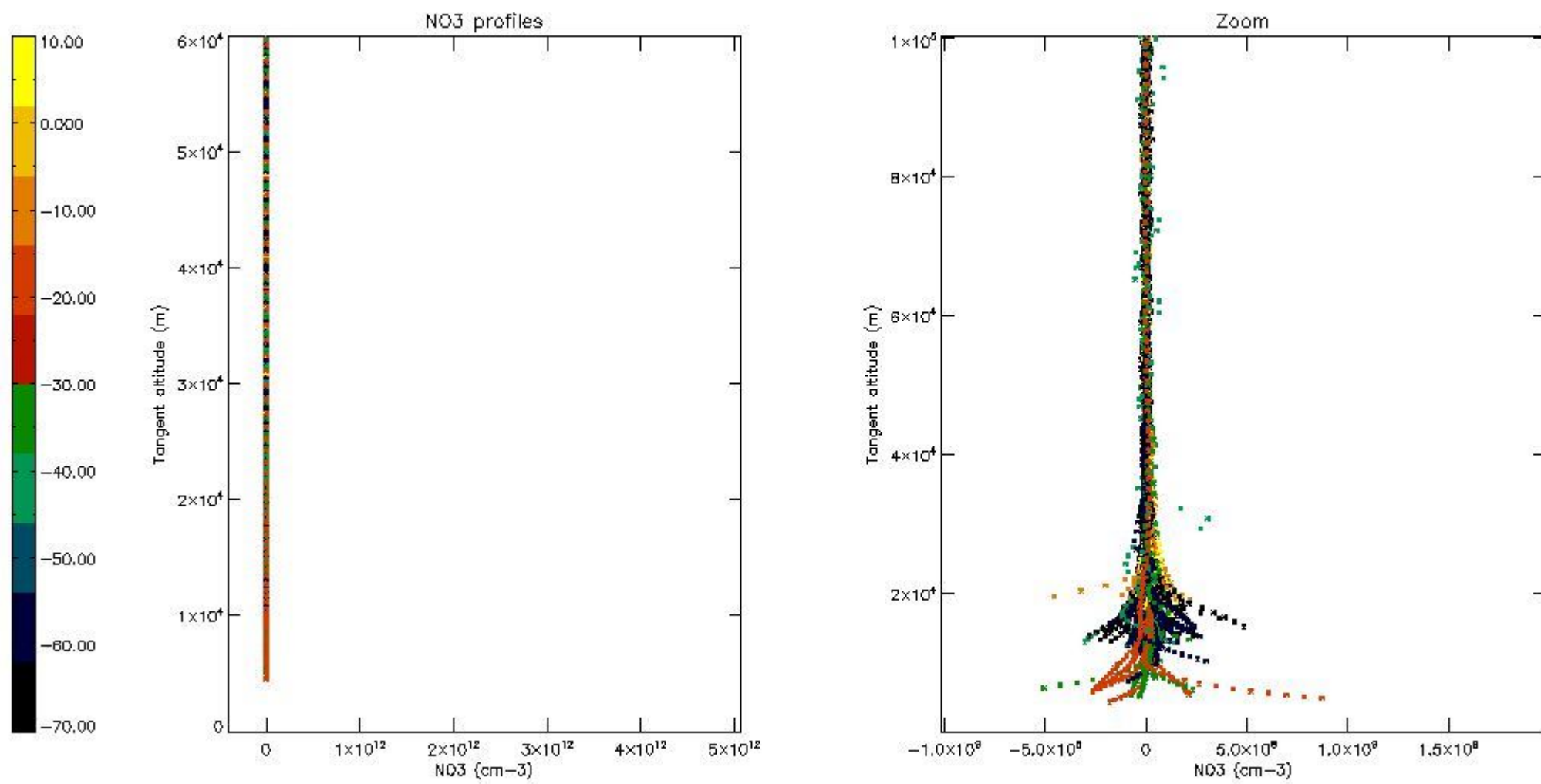
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



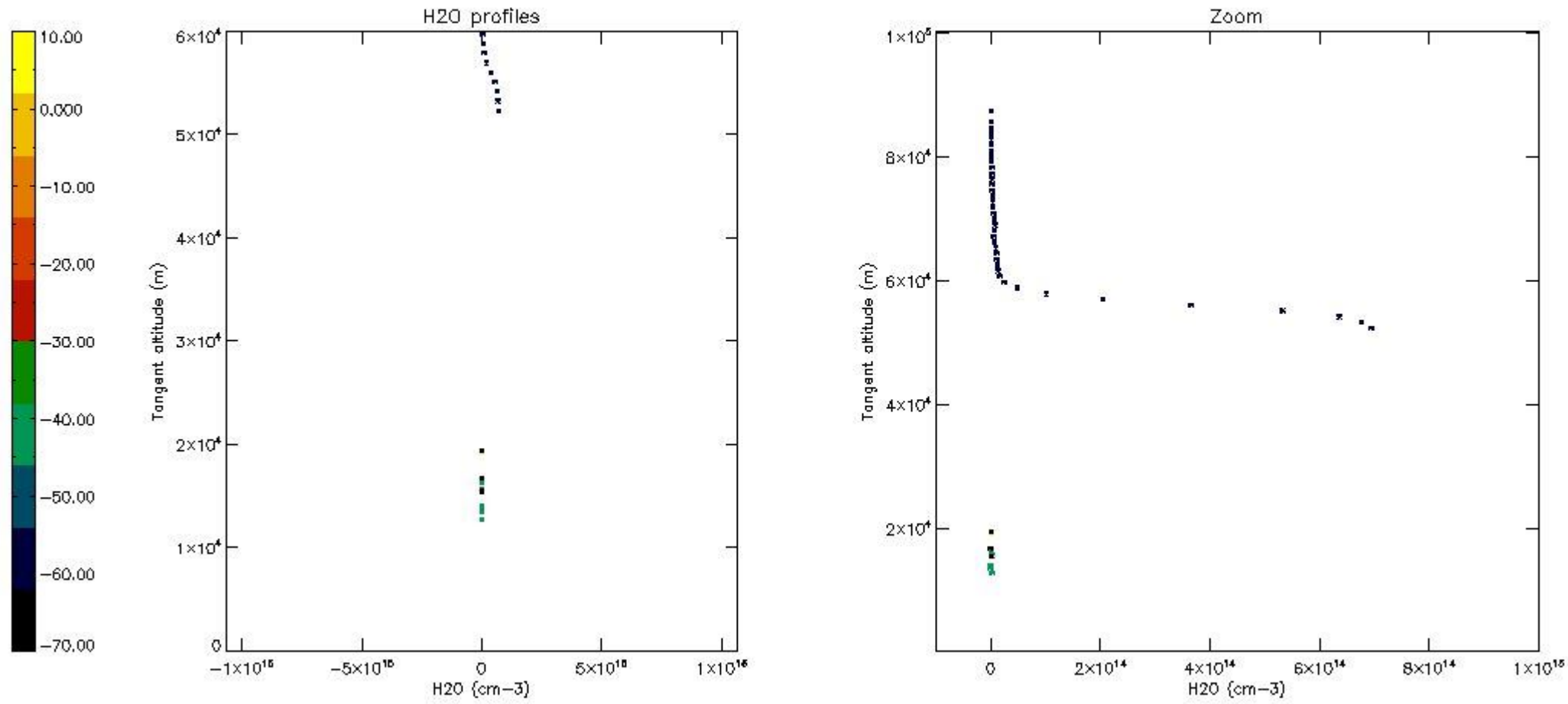
5.7 Plot NO3 profiles for all STD (dark without errors)

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-MAY-2004 00:01:36
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-MAY-2004 00:01:36
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-MAY-2004 00:01:36

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[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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[5.6 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](#)

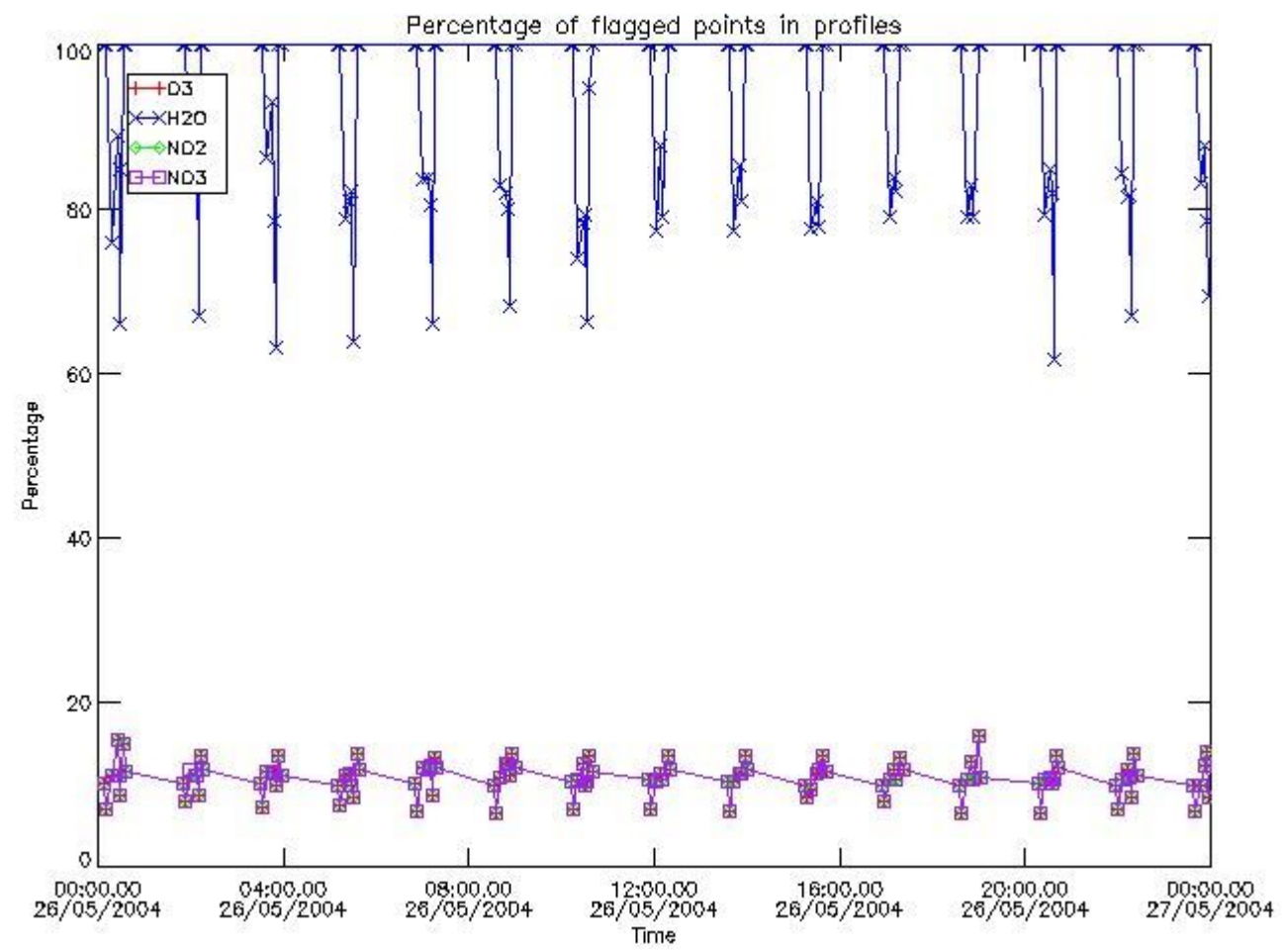
This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also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

Item	Value
Time of report generation	19APR2013 02:52:10
Data source version	GOMOS/6.01
Start time of products	26-05-2004 (26MAY2004 00:00:00)
Stop time of products	27-05-2004 (27MAY2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	447
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

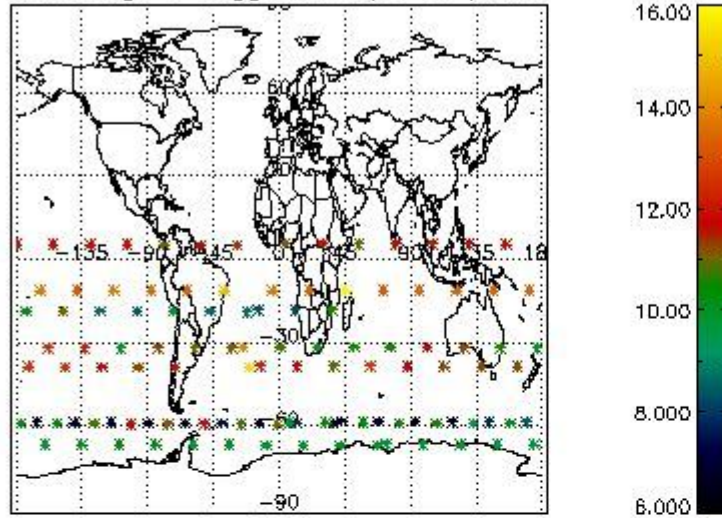
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20040526_000136_000000452027_00116_11693_2889.N1	26-MAY-2004 00:01:36	Bright	45.000	53	43Bet And	2.0480	3300.0	90	11693	No
2	GOM_NL__2PRFIN20040526_000412_000000512027_00116_11693_2890.N1	26-MAY-2004 00:04:12	Twilight	51.000	58	21Alp And	2.0730	11000.	102	11693	No
3	GOM_NL__2PRFIN20040526_000847_000000512027_00116_11693_2891.N1	26-MAY-2004 00:08:47	Dark	50.500	140	88Gam Peg	2.8340	26000.	101	11693	No
4	GOM_NL__2PRFIN20040526_001115_000000742027_00116_11693_2892.N1	26-MAY-2004 00:11:15	Dark	74.000	90	54Alp Peg	2.4870	11000.	148	11693	No
5	GOM_NL__2PRFIN20040526_001739_000000462027_00116_11693_2893.N1	26-MAY-2004 00:17:39	Dark	46.000	52	16Bet Cet	2.0370	4500.0	92	11693	No
6	GOM_NL__2PRFIN20040526_002424_000000462027_00116_11693_2894.N1	26-MAY-2004 00:24:24	Dark	46.000	84	Alp Phe	2.3970	4500.0	92	11693	No
7	GOM_NL__2PRFIN20040526_002703_000000502027_00116_11693_2895.N1	26-MAY-2004 00:27:03	Dark	50.000	9	Alp Eri	0.45300	24000.	100	11693	No
8	GOM_NL__2PRFIN20040526_002918_000000582027_00117_11694_2878.N1	26-MAY-2004 00:29:18	Dark	58.000	63	Bet Gru	2.1500	2800.0	116	11694	No
9	GOM_NL__2PRFIN20040526_003253_000000382027_00117_11694_2879.N1	26-MAY-2004 00:32:53	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	11694	No
10	GOM_NL__2PRFIN20040526_003619_000000452027_00117_11694_2880.N1	26-MAY-2004 00:36:19	Dark	44.500	45	Alp Pav	1.9400	26000.	89	11694	No
11	GOM_NL__2PRFIN20040526_004033_000000472027_00117_11694_2881.N1	26-MAY-2004 00:40:33	Straylight	47.000	43	Alp TrA	1.9100	4250.0	94	11694	No
12	GOM_NL__2PRFIN20040526_004239_000000432027_00117_11694_2882.N1	26-MAY-2004 00:42:39	Straylight	43.000	134	Bet TrA	2.8100	6600.0	86	11694	No
13	GOM_NL__2PRFIN20040526_004409_000000472027_00117_11694_2883.N1	26-MAY-2004 00:44:09	Straylight	47.000	4	Alp1Cen	-0.010000	5800.0	94	11694	No
14	GOM_NL__2PRFIN20040526_004641_000000612027_00117_11694_2884.N1	26-MAY-2004 00:46:41	Straylight	60.500	38	20Eps Sgr	1.8360	11000.	121	11694	No
15	GOM_NL__2PRFIN20040526_004830_000000802027_00117_11694_2885.N1	26-MAY-2004 00:48:30	Twilight	80.000	57	34Sig Sgr	2.0660	26000.	160	11694	No
16	GOM_NL__2PRFIN20040526_005139_000000462027_00117_11694_2886.N1	26-MAY-2004 00:51:39	Twilight	45.500	136	23Tau Sco	2.8220	30000.	91	11694	No
17	GOM_NL__2PRFIN20040526_005348_000000472027_00117_11694_2887.N1	26-MAY-2004 00:53:48	Bright	46.500	80	7Del Sco	2.3160	30000.	93	11694	No
18	GOM_NL__2PRFIN20040526_005531_000000512027_00117_11694_2888.N1	26-MAY-2004 00:55:31	Bright	51.000	86	35Eta Oph	2.4300	10200.	102	11694	No
19	GOM_NL__2PRFIN20040526_005806_000000392027_00117_11694_2889.N1	26-MAY-2004 00:58:06	Bright	39.000	104	27Bet Lib	2.6140	13100.	78	11694	No
20	GOM_NL__2PRFIN20040526_005943_000000452027_00117_11694_2890.N1	26-MAY-2004 00:59:43	Bright	44.500	120	1Del Oph	2.7340	3200.0	89	11694	No
21	GOM_NL__2PRFIN20040526_010247_000000402027_00117_11694_2891.N1	26-MAY-2004 01:02:47	Bright	40.000	102	24Alp Ser	2.6000	4250.0	80	11694	No
22	GOM_NL__2PRFIN20040526_010629_000000382027_00117_11694_2892.N1	26-MAY-2004 01:06:29	Bright	37.500	3	16Alp Boo	-0.050000	4250.0	75	11694	No
23	GOM_NL__2PRFIN20040526_010836_000000392027_00117_11694_2893.N1	26-MAY-2004 01:08:36	Bright	38.500	83		2.3780	11000.	77	11694	No
24	GOM_NL__2PRFIN20040526_011146_000000382027_00117_11694_2894.N1	26-MAY-2004 01:11:46	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	11694	No
25	GOM_NL__2PRFIN20040526_011501_000000382027_00117_11694_2895.N1	26-MAY-2004 01:15:01	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	11694	No
26	GOM_NL__2PRFIN20040526_011645_000000402027_00117_11694_2896.N1	26-MAY-2004 01:16:45	Bright	39.500	55	79Zet UMa	2.0600	10200.	79	11694	No
27	GOM_NL__2PRFIN20040526_011938_000000422027_00117_11694_2897.N1	26-MAY-2004 01:19:38	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	11694	No
28	GOM_NL__2PRFIN20040526_012157_000000402027_00117_11694_2898.N1	26-MAY-2004 01:21:57	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	11694	No
29	GOM_NL__2PRFIN20040526_012634_000000392027_00117_11694_2899.N1	26-MAY-2004 01:26:34	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	11694	No
30	GOM_NL__2PRFIN20040526_013023_000000472027_00117_11694_2900.N1	26-MAY-2004 01:30:23	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	11694	No
31	GOM_NL__2PRFIN20040526_013442_000000372027_00117_11694_2901.N1	26-MAY-2004 01:34:42	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	11694	No
32	GOM_NL__2PRFIN20040526_013553_000000412027_00117_11694_2902.N1	26-MAY-2004 01:35:53	Bright	40.500	68	18Alp Cas	2.2250	4500.0	81	11694	No
33	GOM_NL__2PRFIN20040526_014212_000000422027_00117_11694_2903.N1	26-MAY-2004 01:42:12	Bright	41.500	53	43Bet And	2.0480	3300.0	83	11694	No
34	GOM_NL__2PRFIN20040526_014448_000000532027_00117_11694_2904.N1	26-MAY-2004 01:44:48	Twilight	52.500	58	21Alp And	2.0730	11000.	105	11694	No
35	GOM_NL__2PRFIN20040526_014923_000000502027_00117_11694_2905.N1	26-MAY-2004 01:49:23	Dark	50.000	140	88Gam Peg	2.8340	26000.	100	11694	No
36	GOM_NL__2PRFIN20040526_015152_000000722027_00117_11694_2906.N1	26-MAY-2004 01:51:52	Dark	71.500	90	54Alp Peg	2.4870	11000.	143	11694	No
37	GOM_NL__2PRFIN20040526_015815_000000472027_00117_11694_2907.N1	26-MAY-2004 01:58:15	Dark	47.000	52	16Bet Cet	2.0370	4500.0	94	11694	No
38	GOM_NL__2PRFIN20040526_020739_000000462027_00117_11694_2908.N1	26-MAY-2004 02:07:39	Dark	46.000	9	Alp Eri	0.45300	24000.	92	11694	No
39	GOM_NL__2PRFIN20040526_020955_000000582027_00118_11695_2879.N1	26-MAY-2004 02:09:55	Dark	58.000	63	Bet Gru	2.1500	2800.0	116	11695	No
40	GOM_NL__2PRFIN20040526_021329_000000382027_00118_11695_2880.N1	26-MAY-2004 02:13:29	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	11695	No
41	GOM_NL__2PRFIN20040526_021655_000000442027_00118_11695_2881.N1	26-MAY-2004 02:16:55	Dark	43.500	45	Alp Pav	1.9400	26000.	87	11695	No
42	GOM_NL__2PRFIN20040526_022111_000000422027_00118_11695_2882.N1	26-MAY-2004 02:21:11	Straylight	41.500	43	Alp TrA	1.9100	4250.0	83	11695	No

3.1 Plot quality information per product (time dependant)

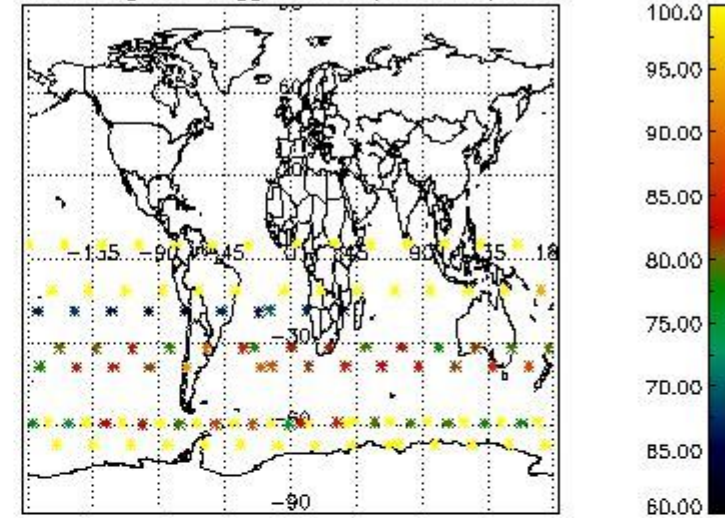


3.2 Plot quality information per product (world map)

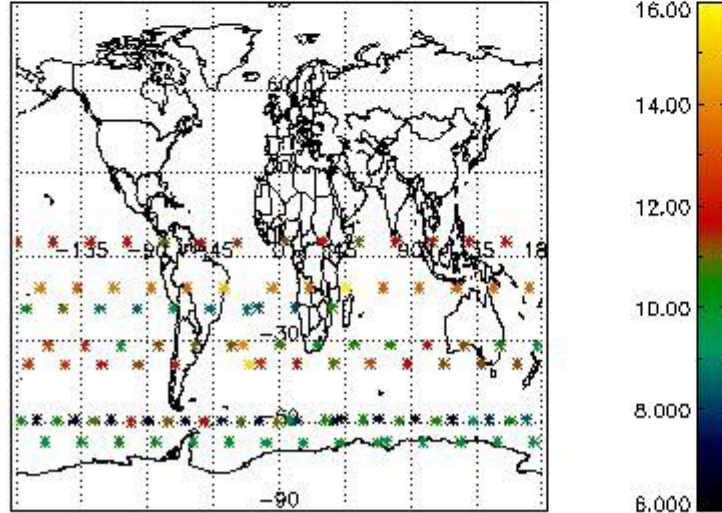
Percentage of flagged data per O3 profile



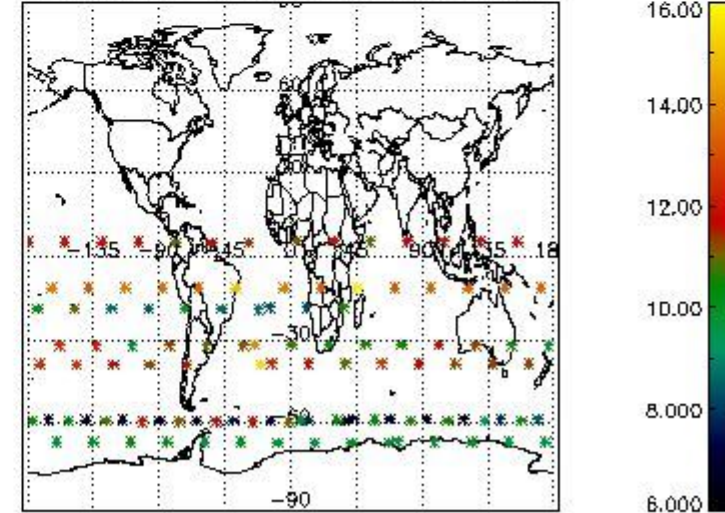
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

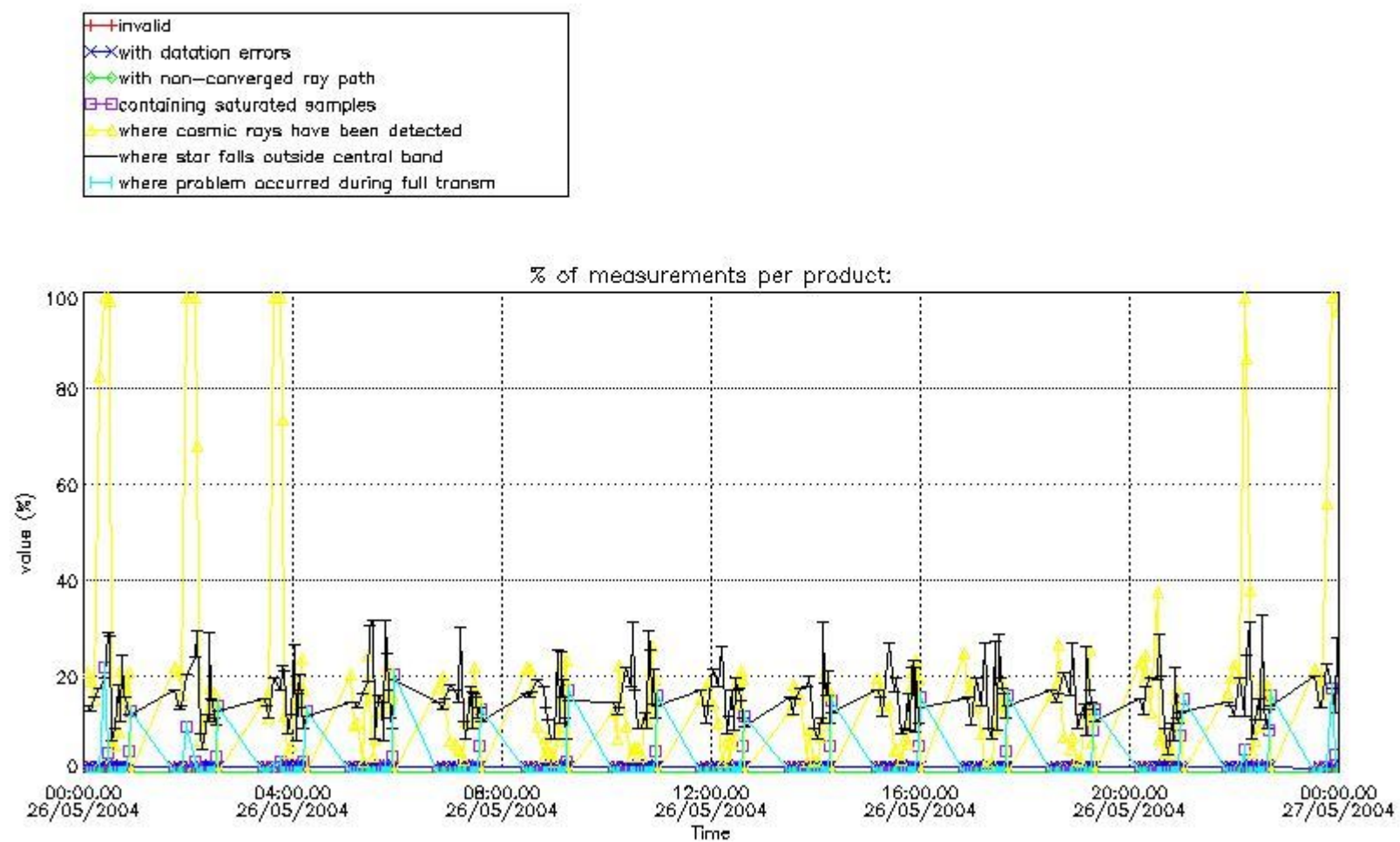


4. Level 1 quality information per product

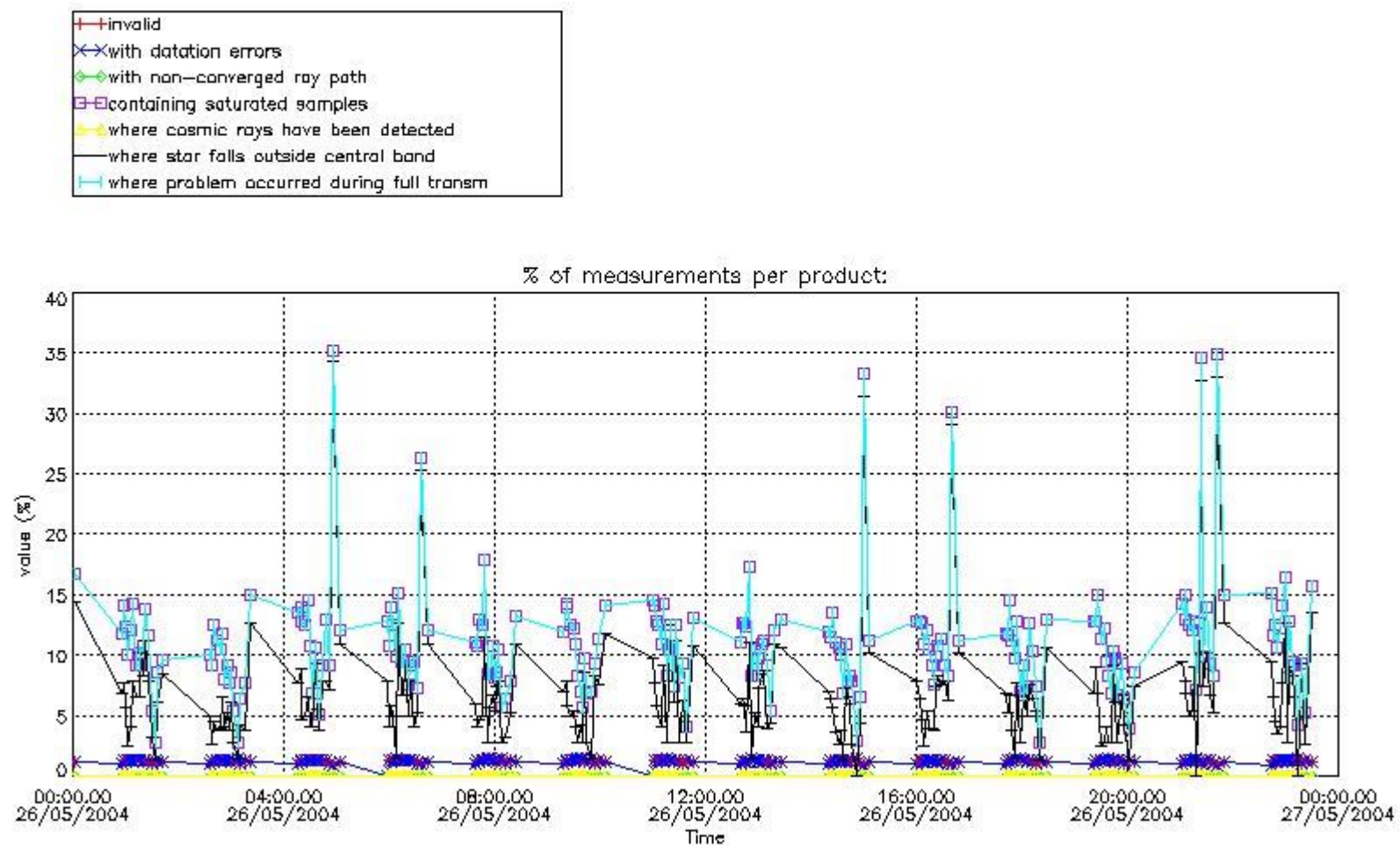
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

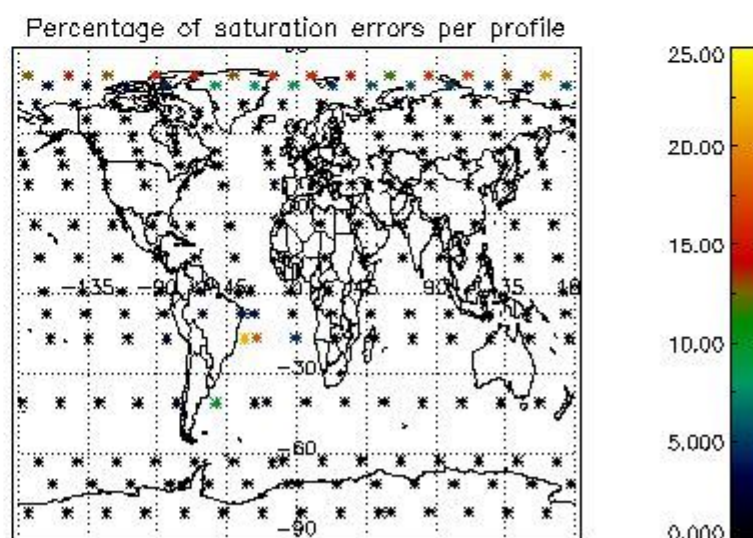
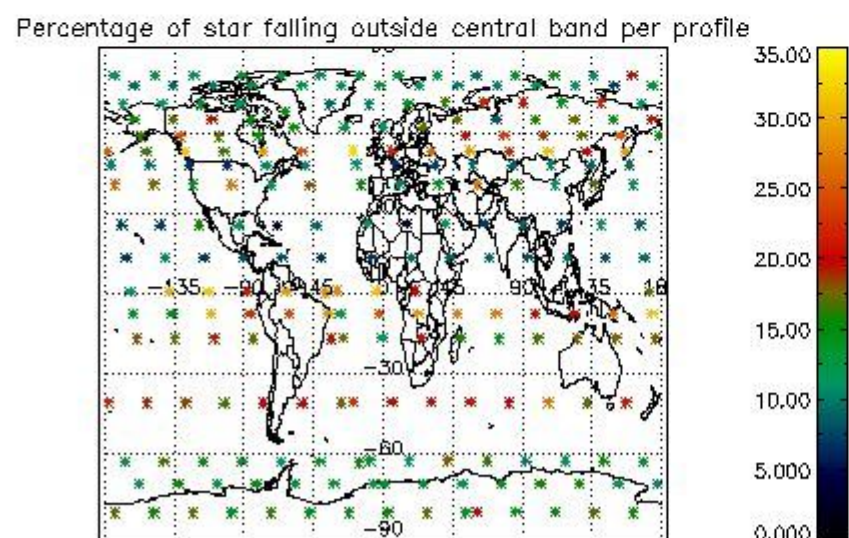
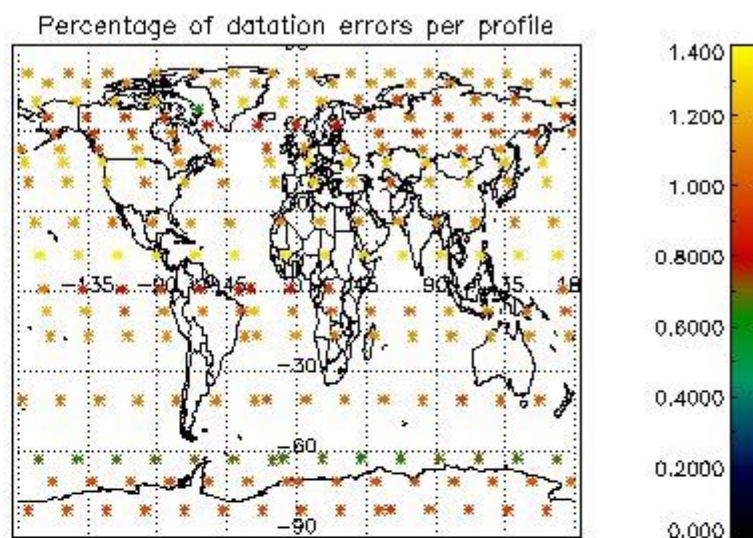
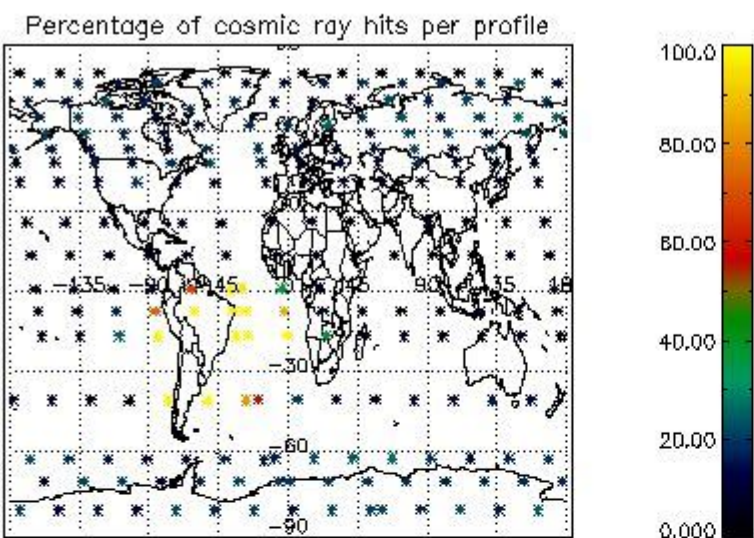


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

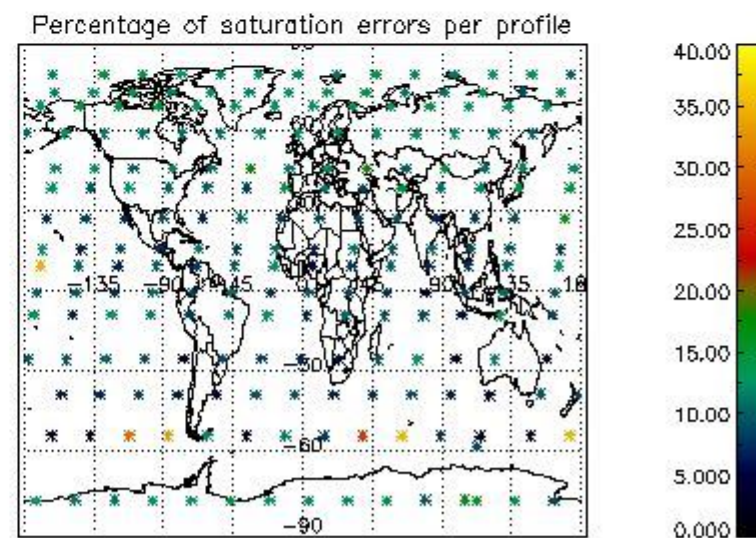
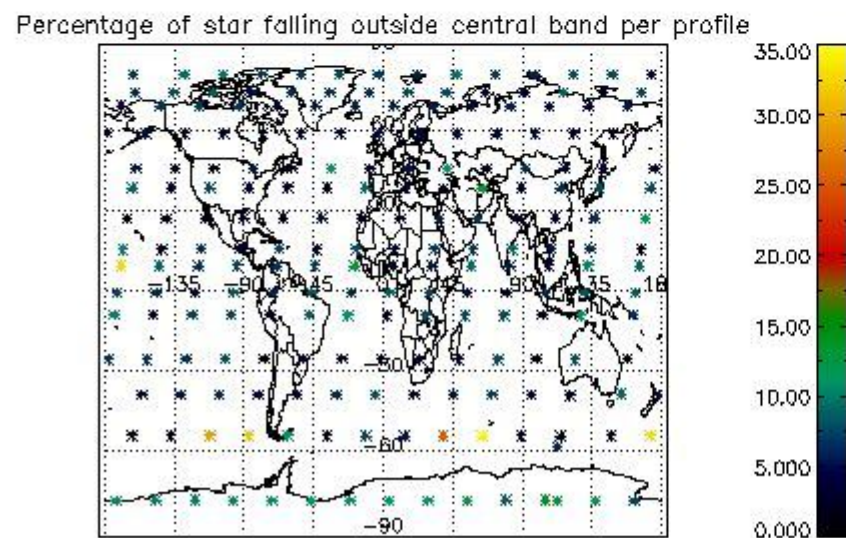
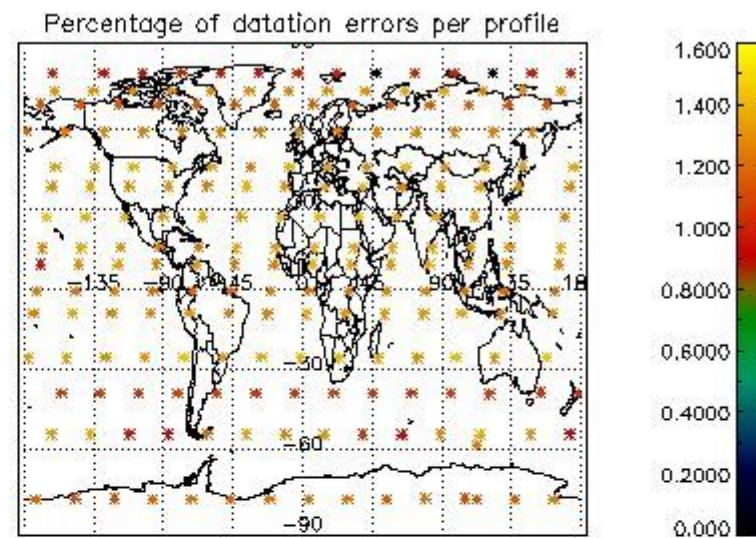
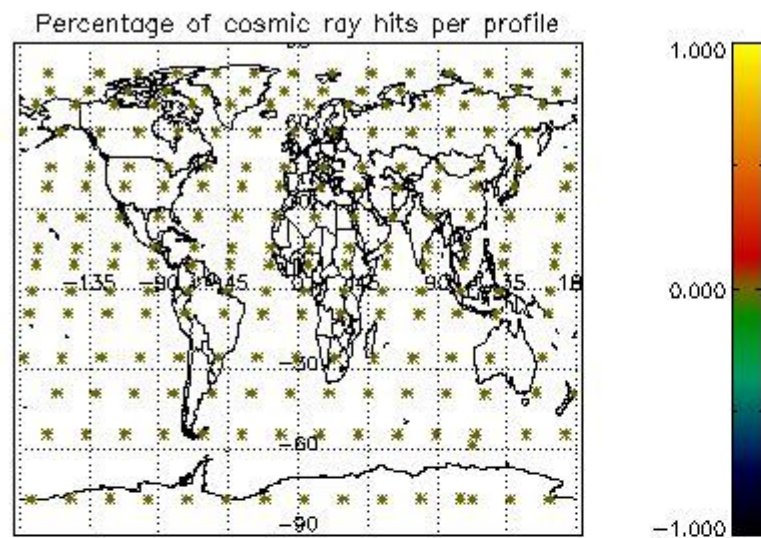


4.2 Plot quality information per product coming from level 1b processing (world map)

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

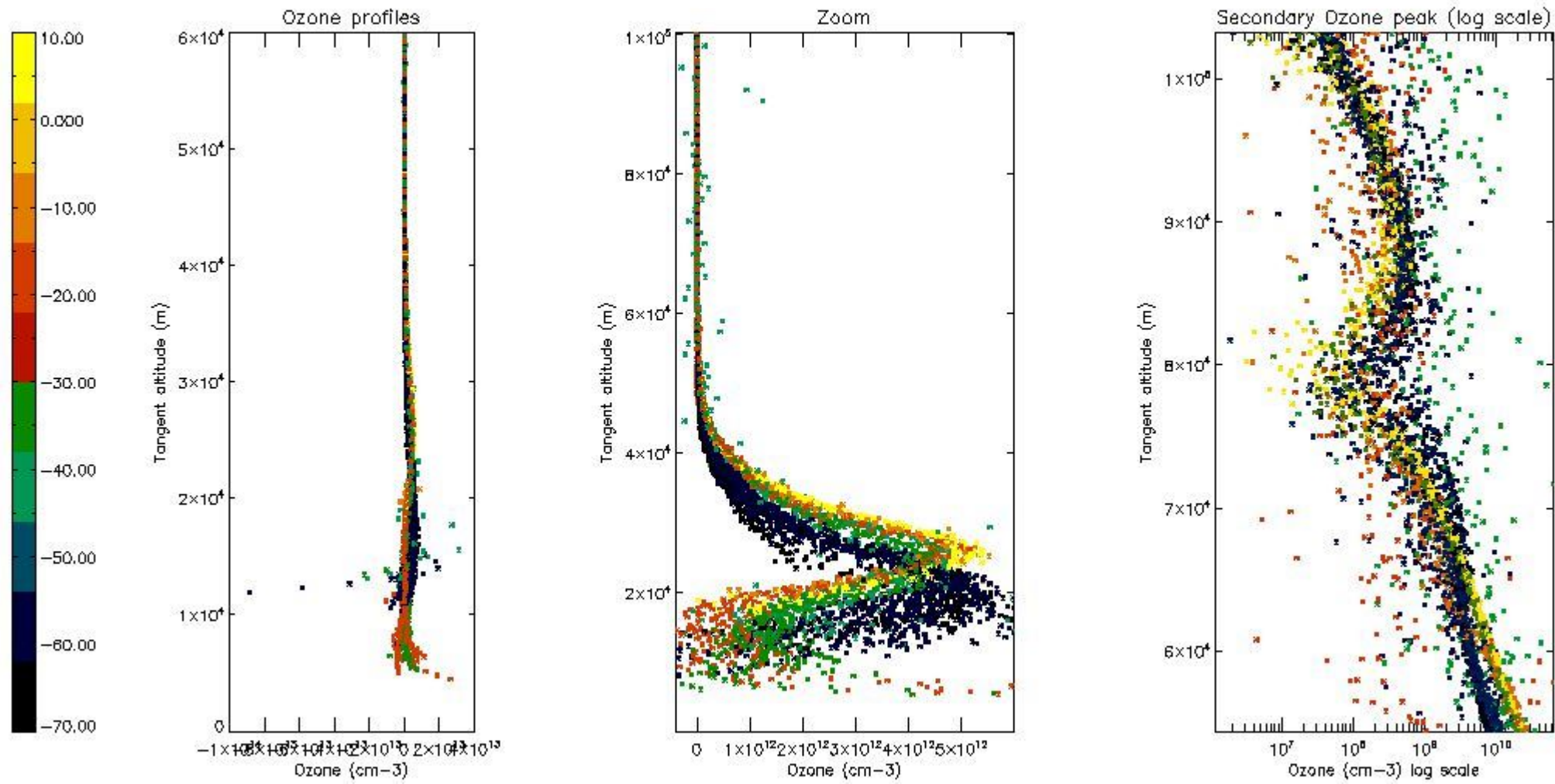
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	15

STD < 10	12
STD < 5	8

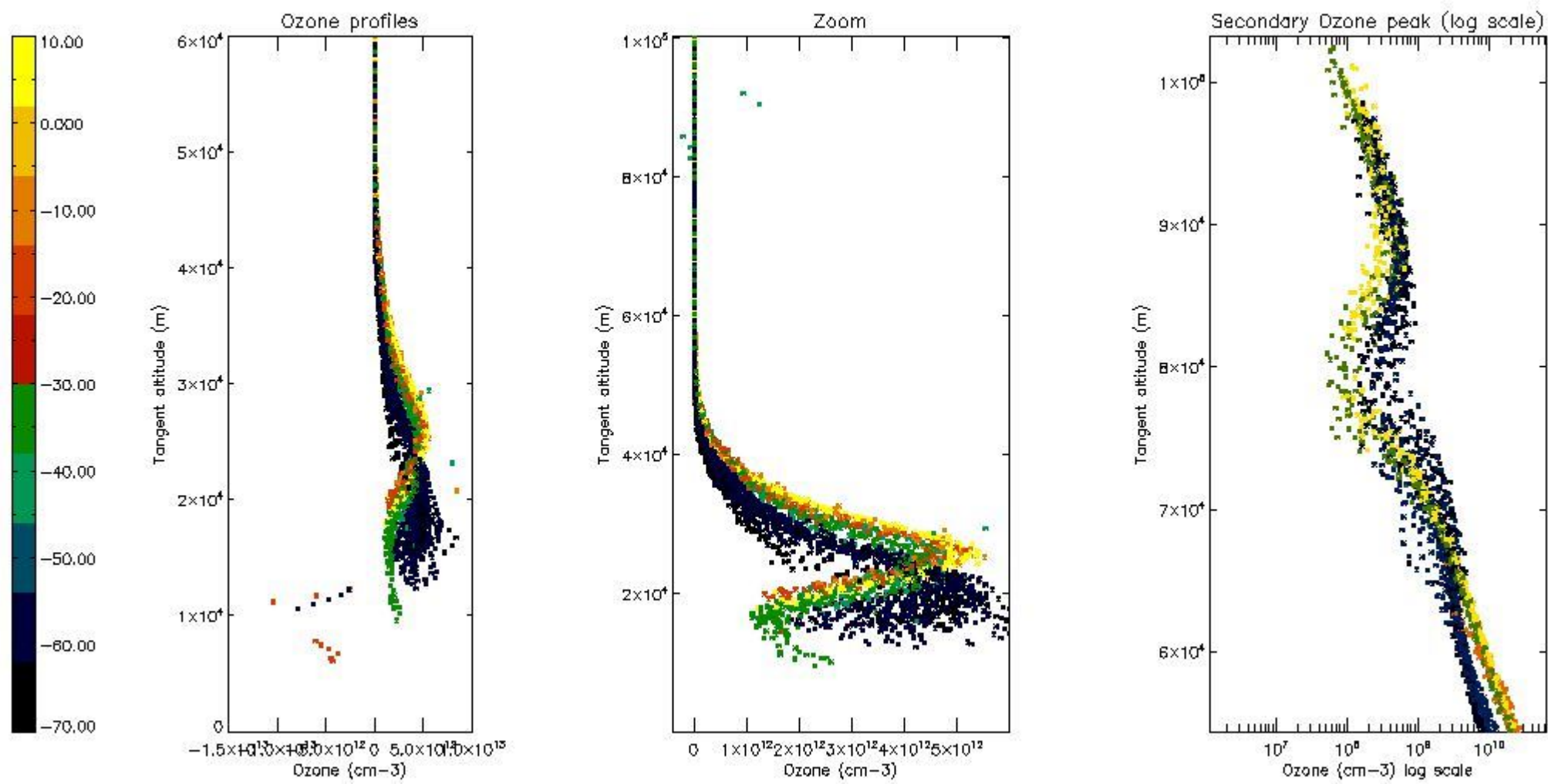
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



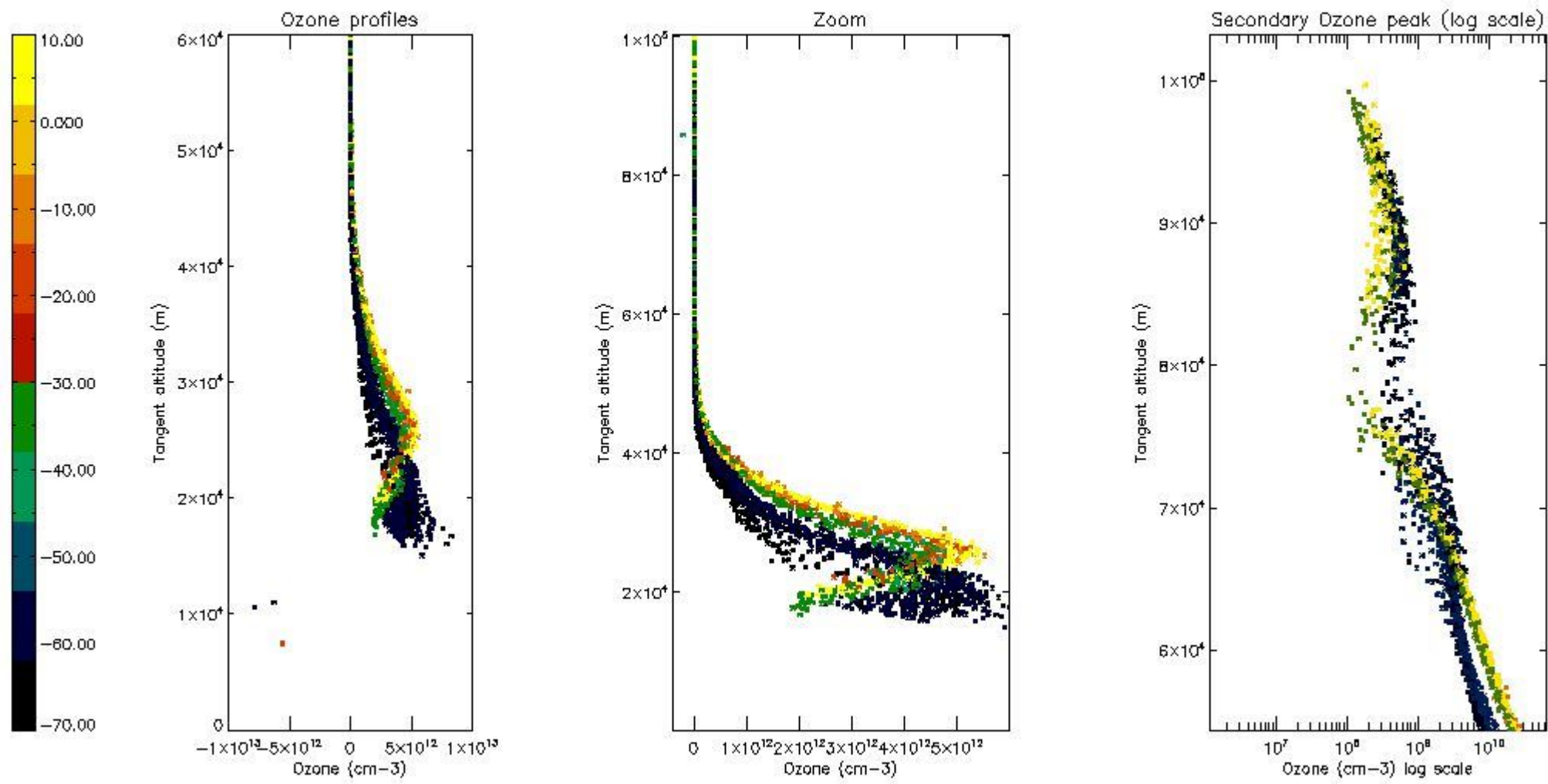
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



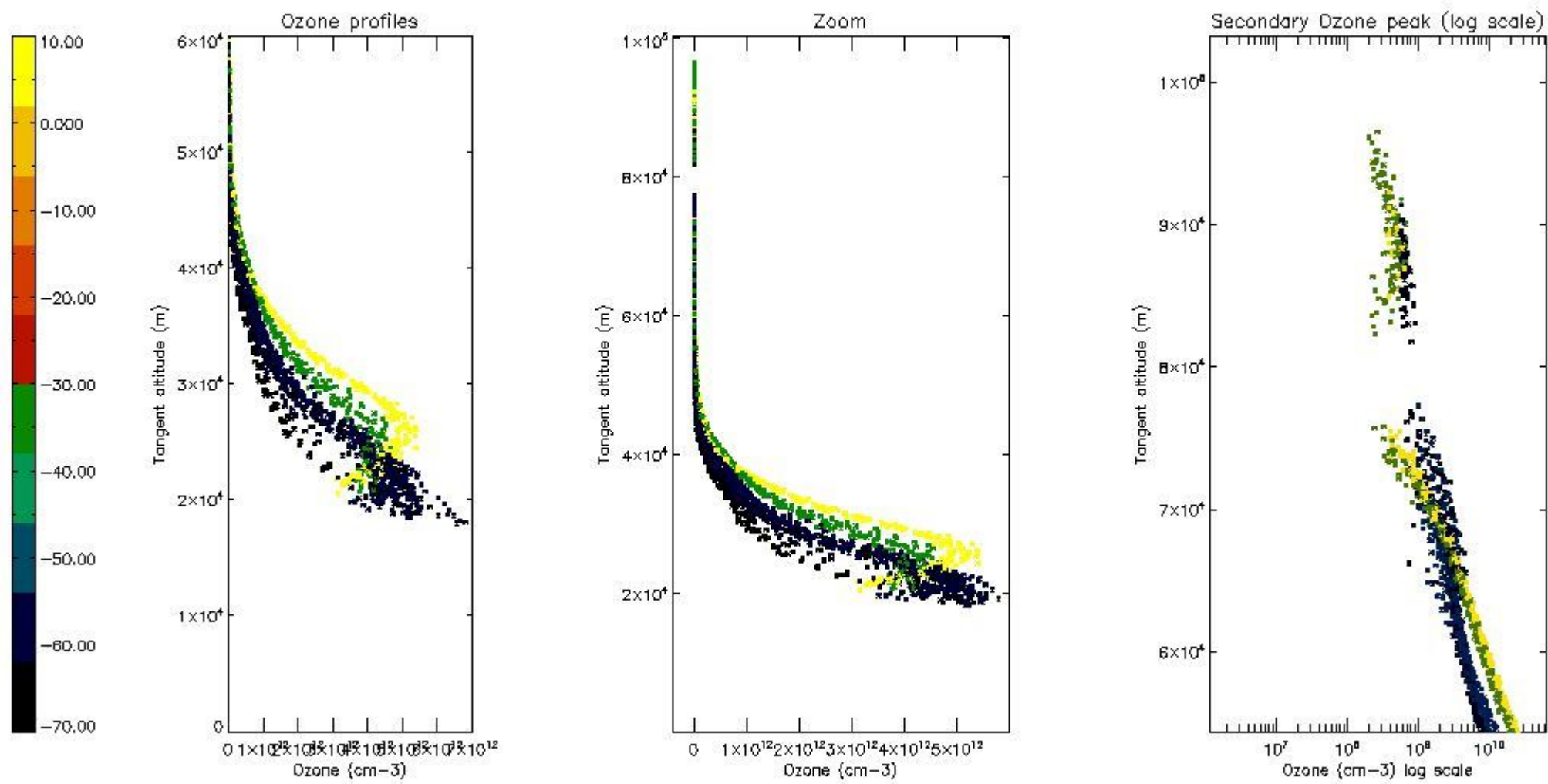
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



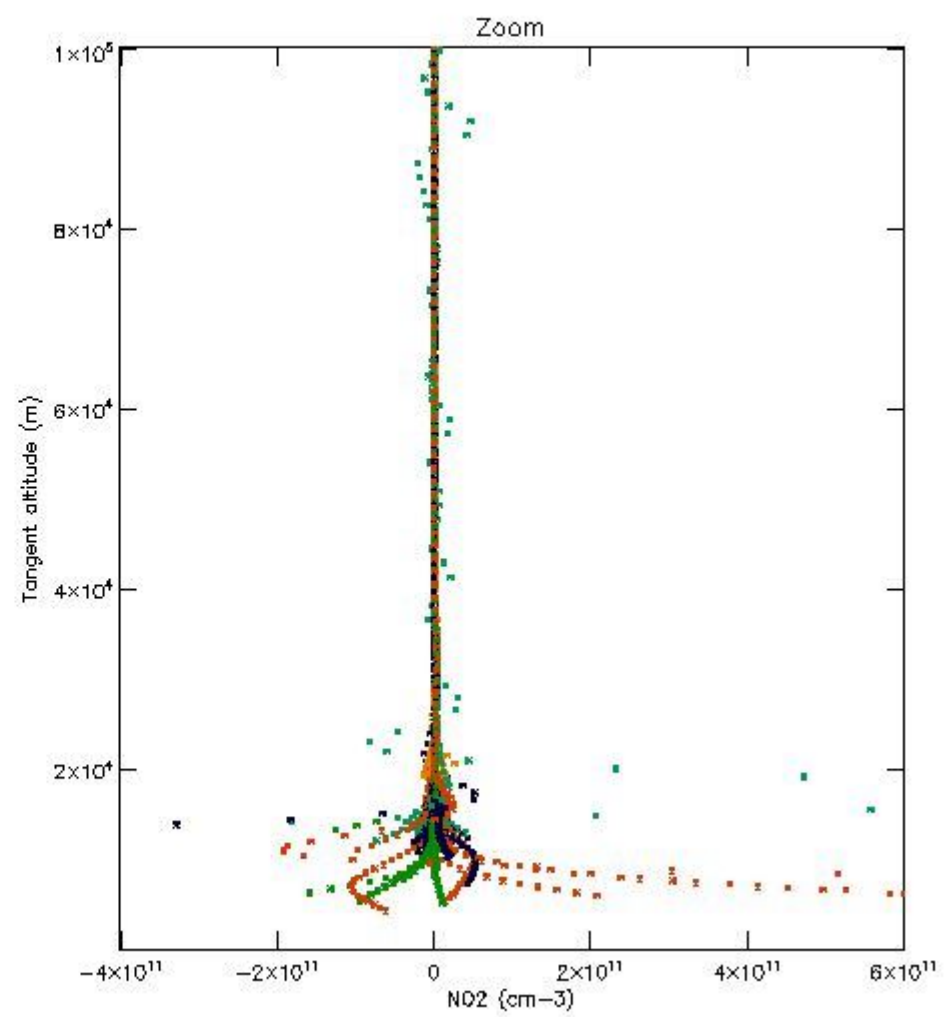
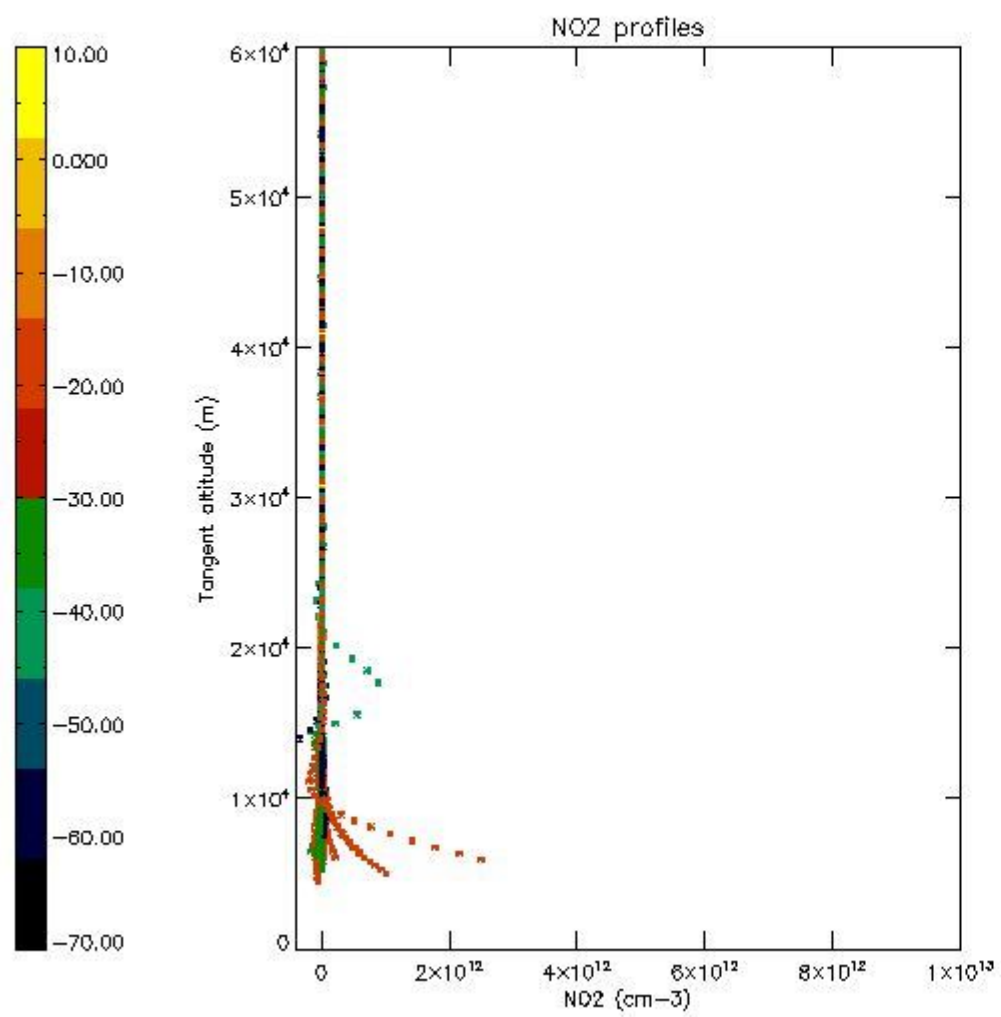
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



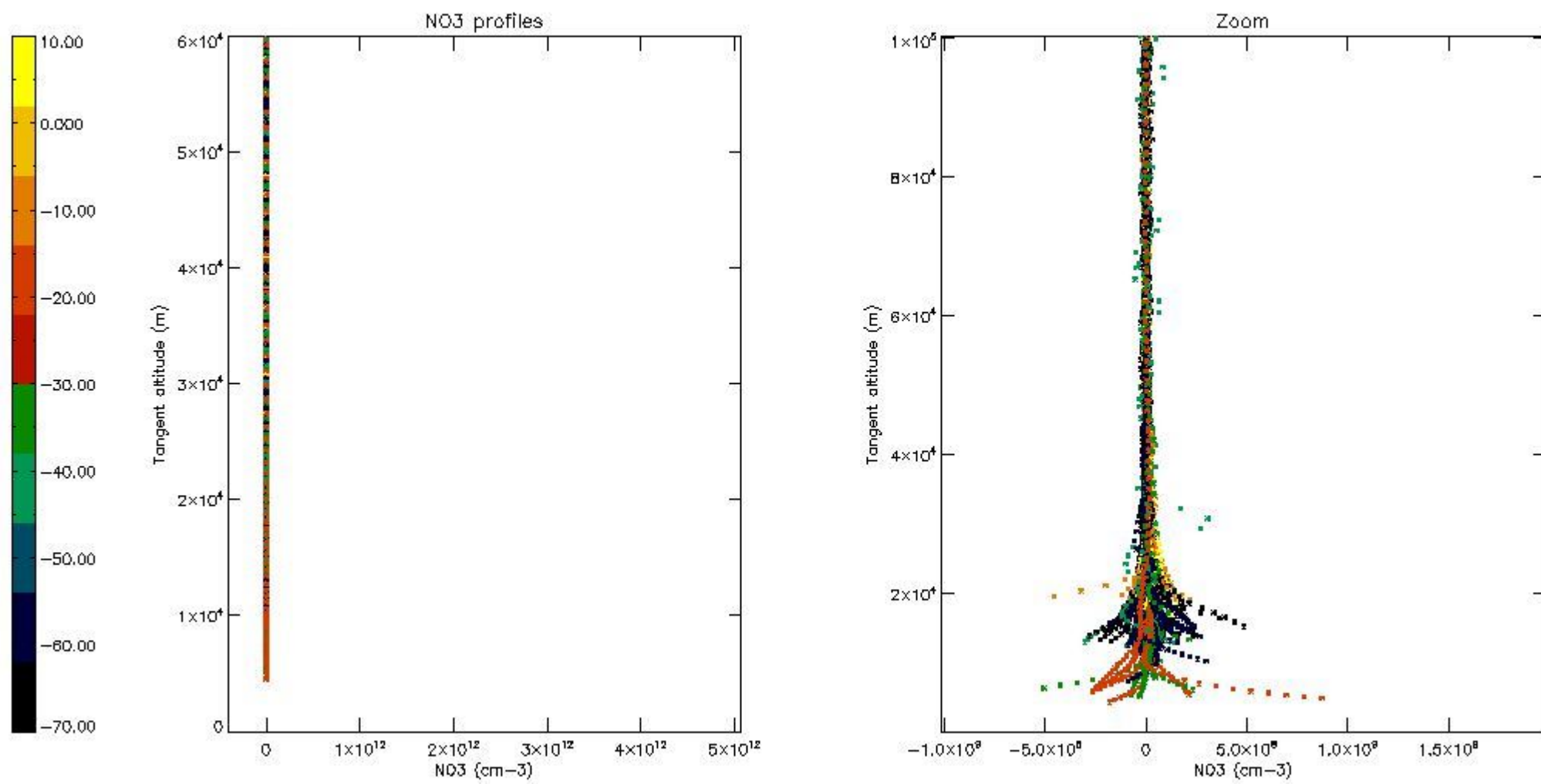
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



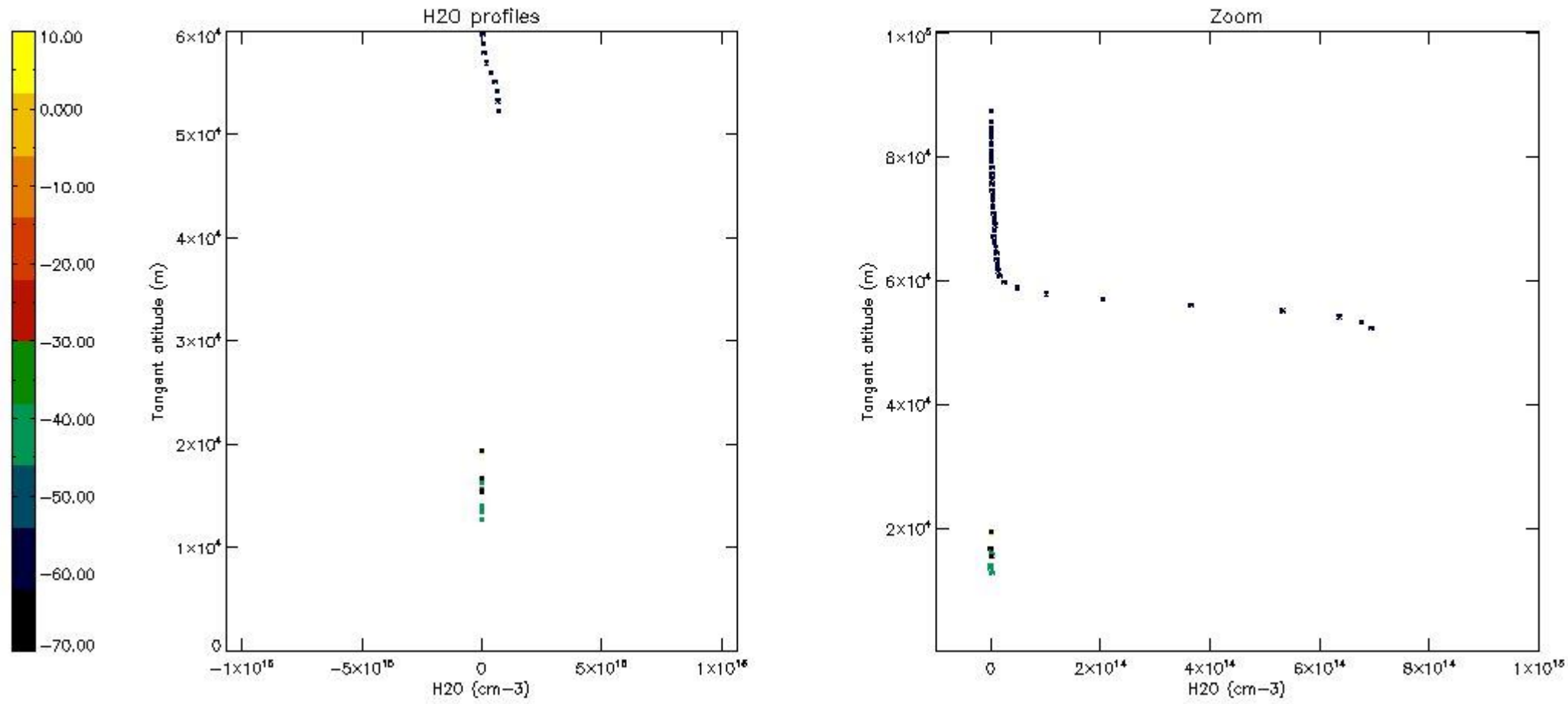
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

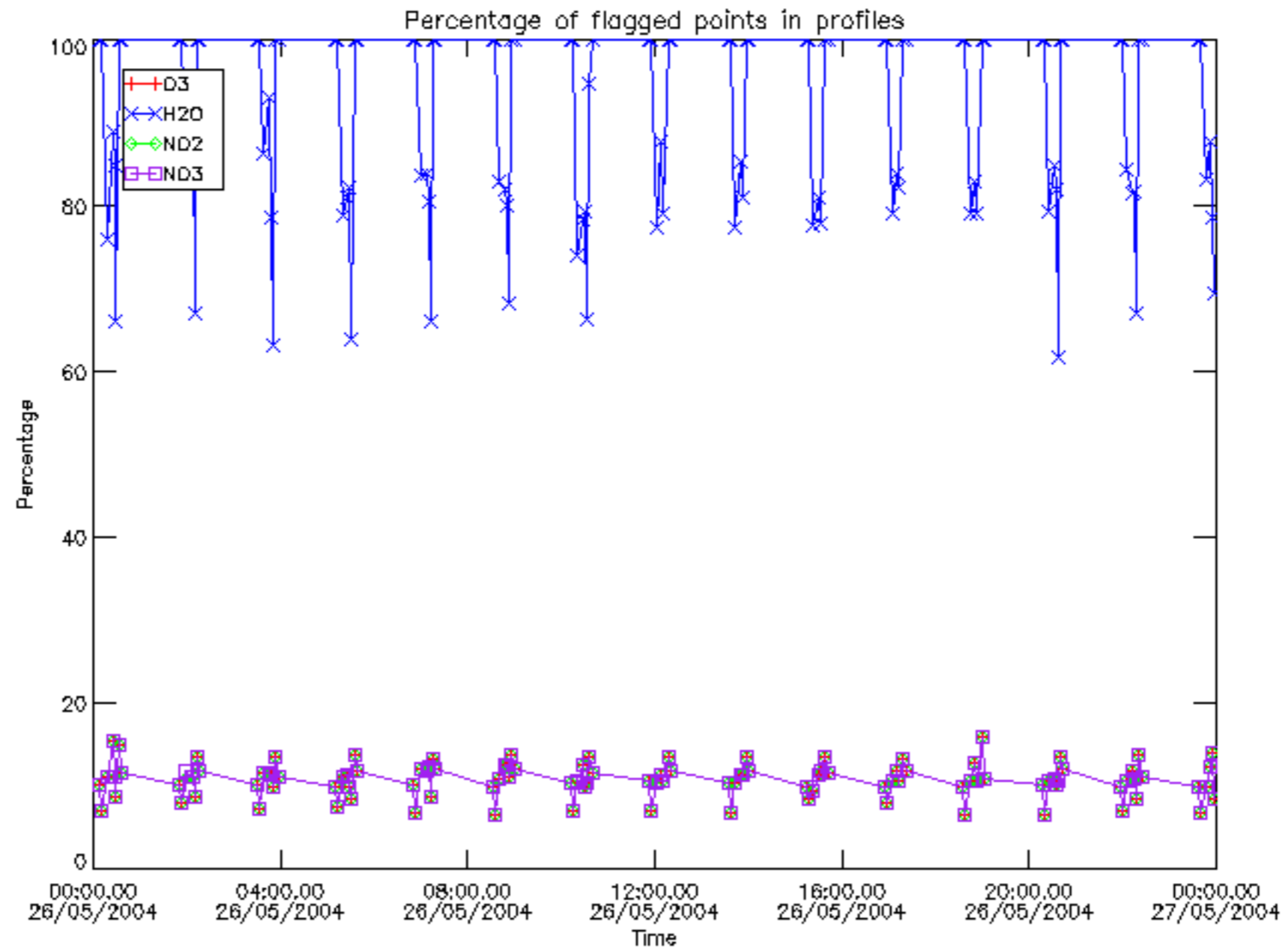
The colorbar represents the latitude.



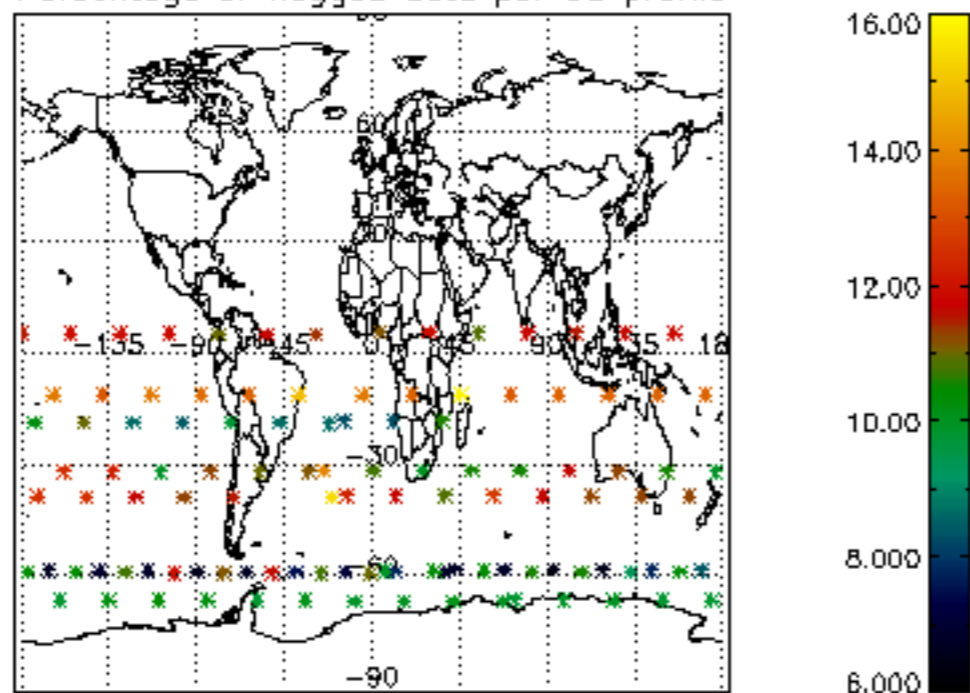
6. Auxiliary Data Files used for the production reported in section 2

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.

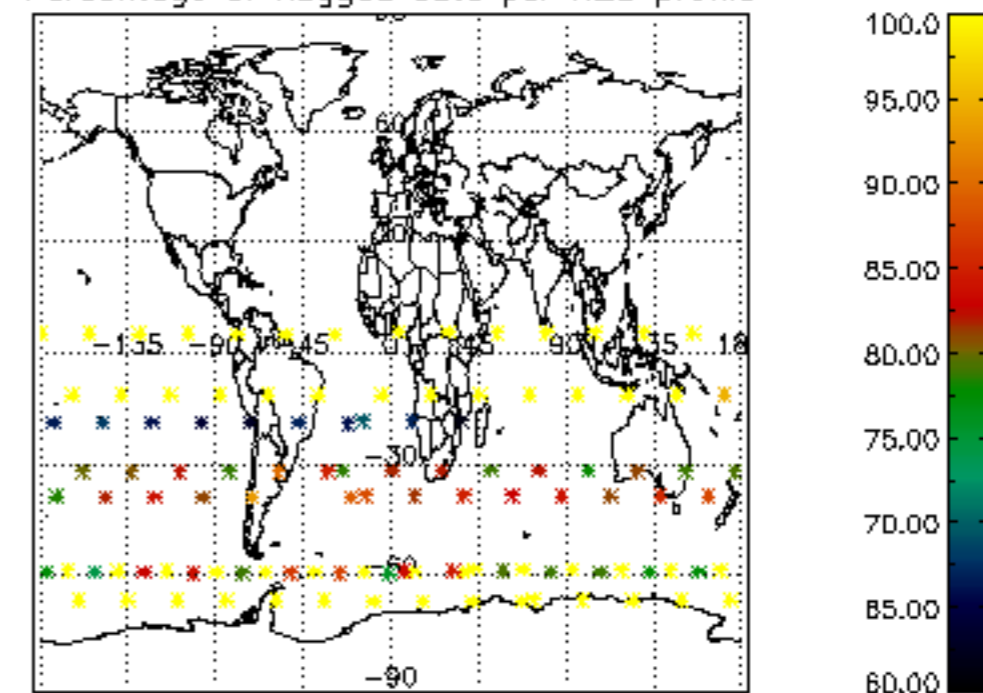
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-MAY-2004 00:01:36
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-MAY-2004 00:01:36
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-MAY-2004 00:01:36



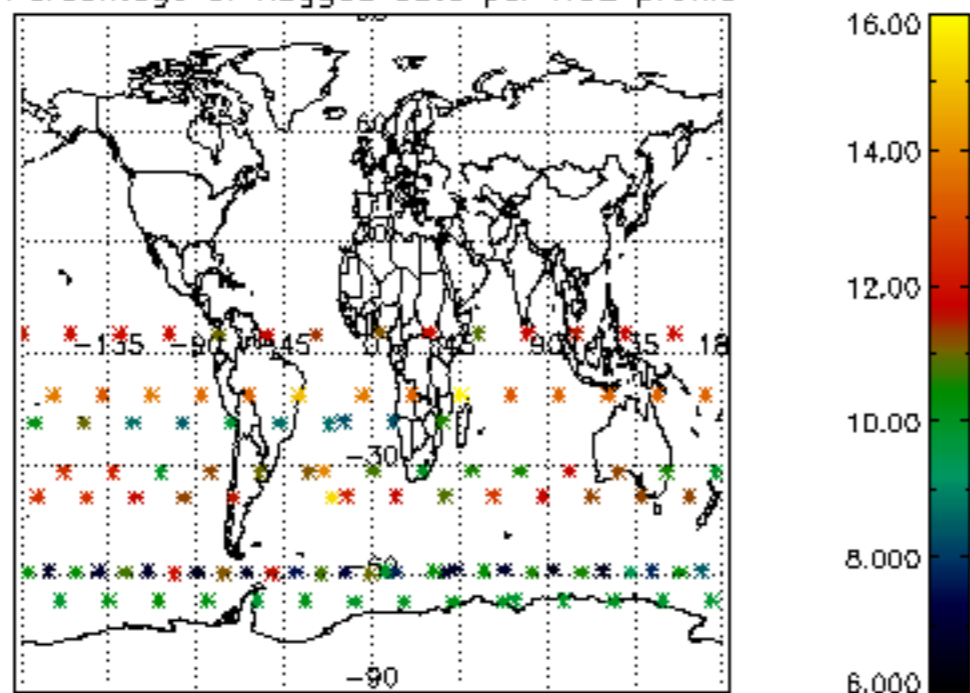
Percentage of flagged data per D3 profile



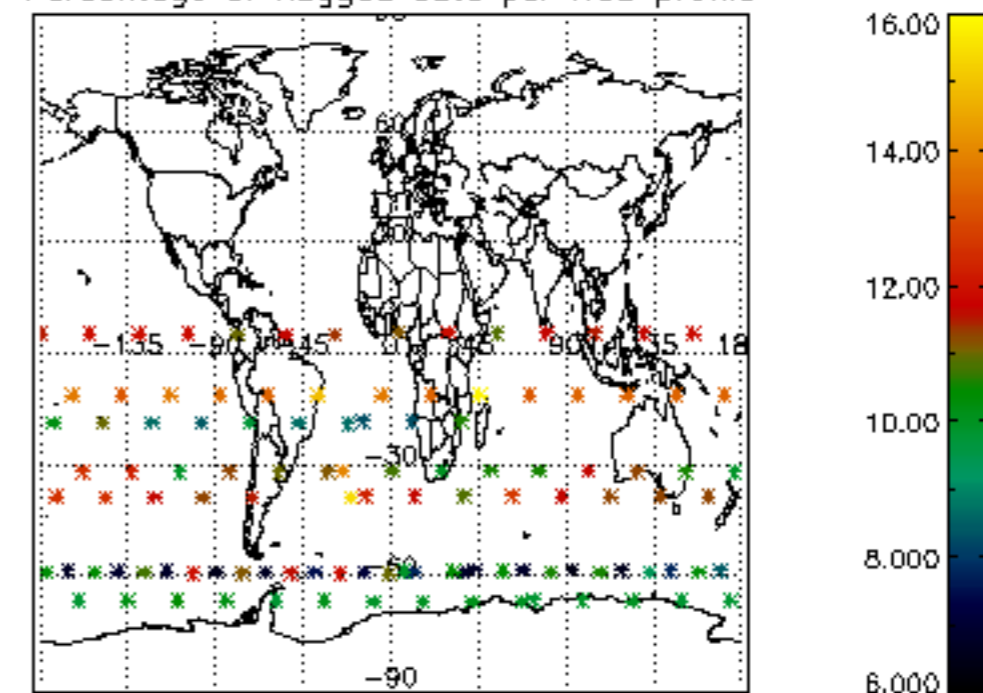
Percentage of flagged data per H2O profile

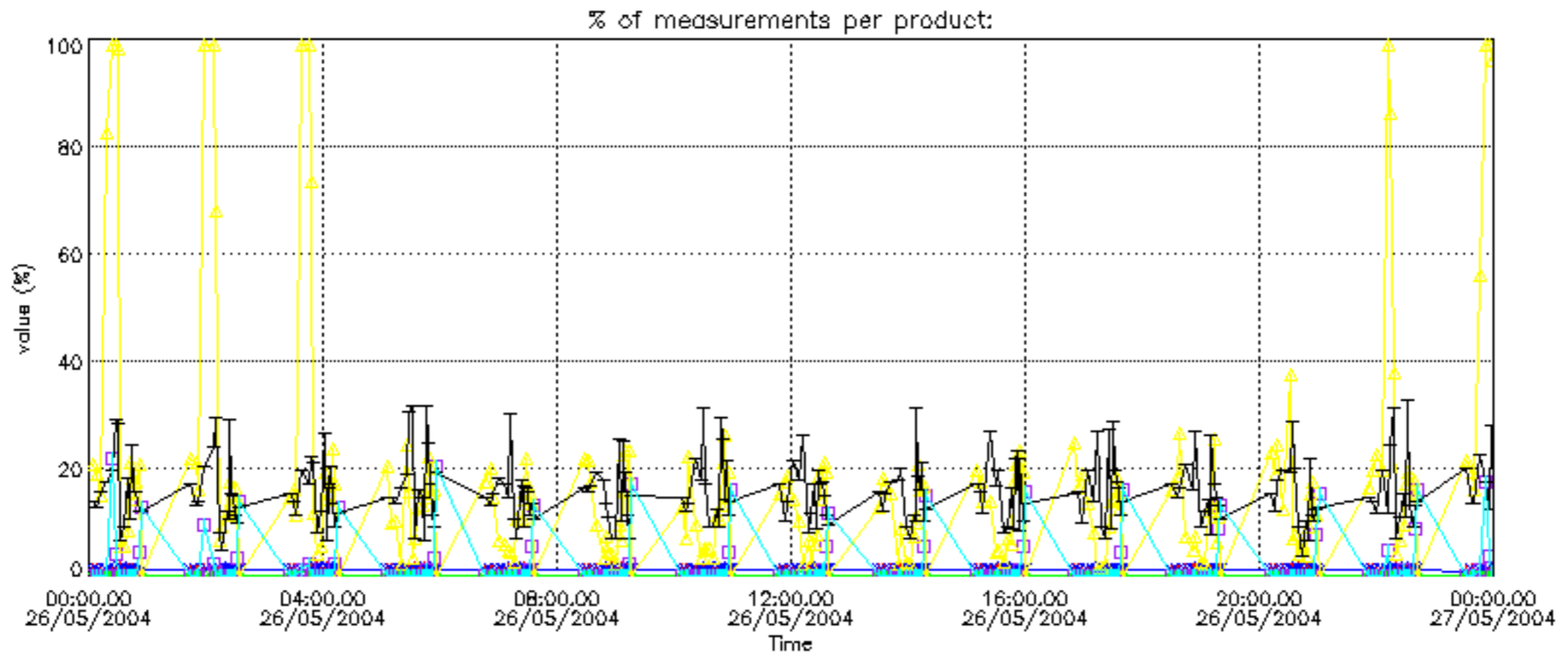


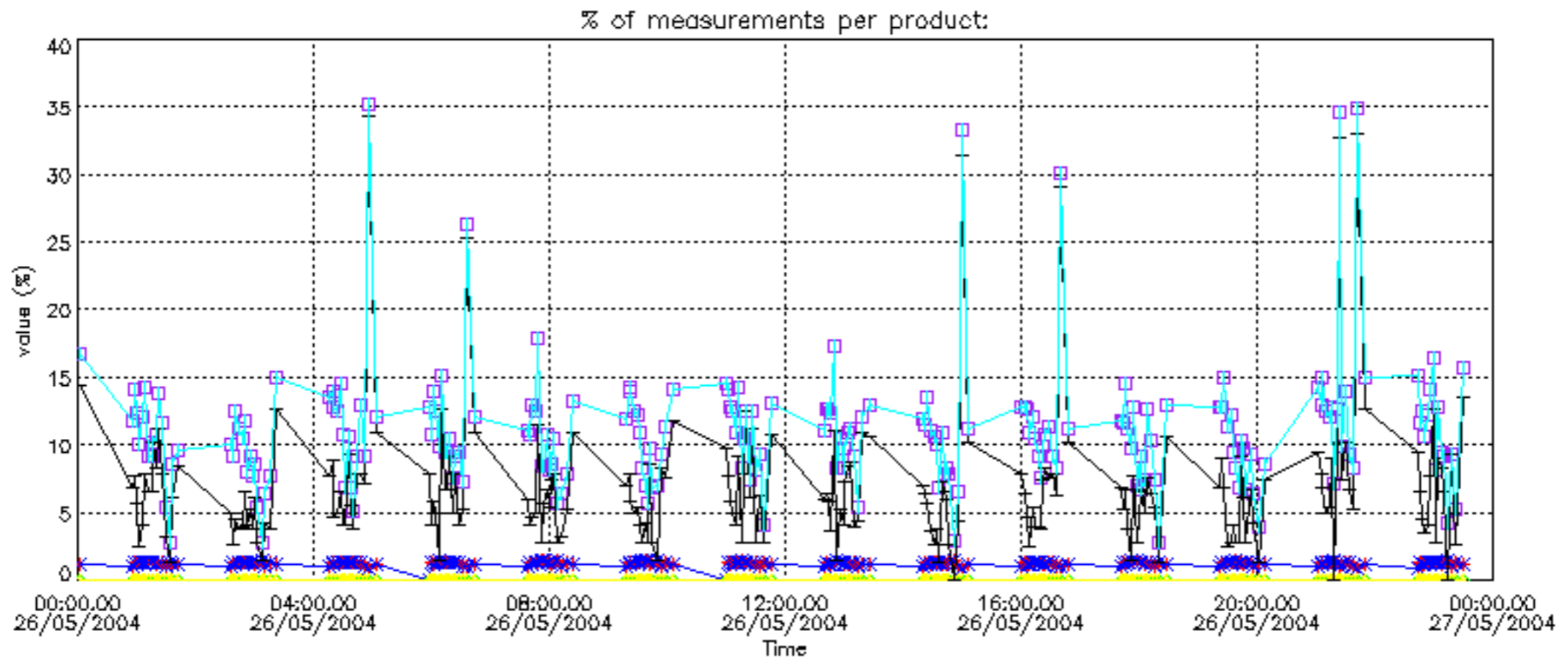
Percentage of flagged data per NO2 profile



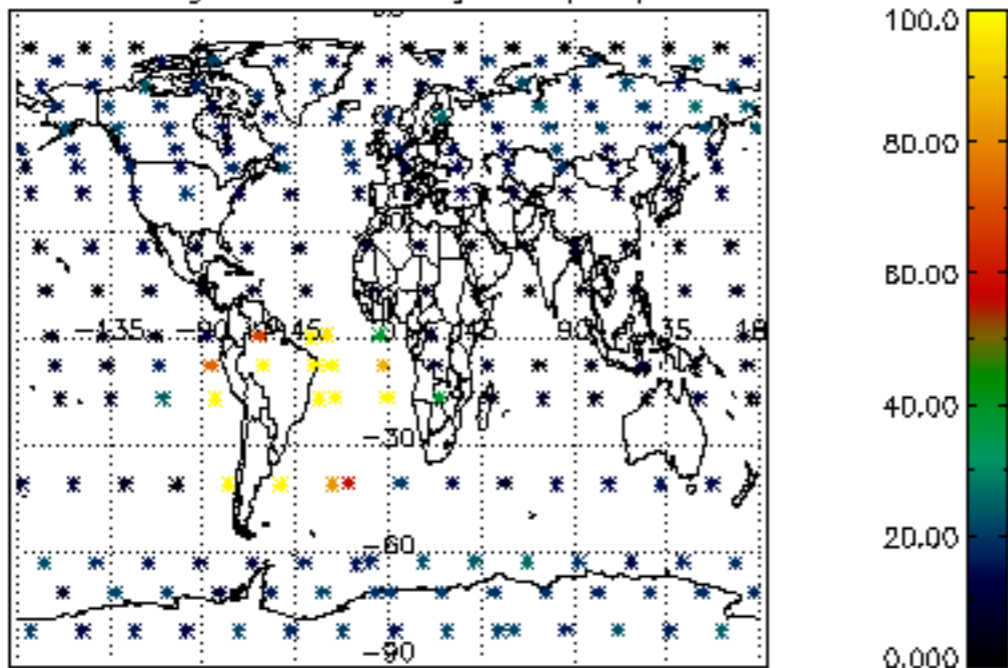
Percentage of flagged data per NO3 profile



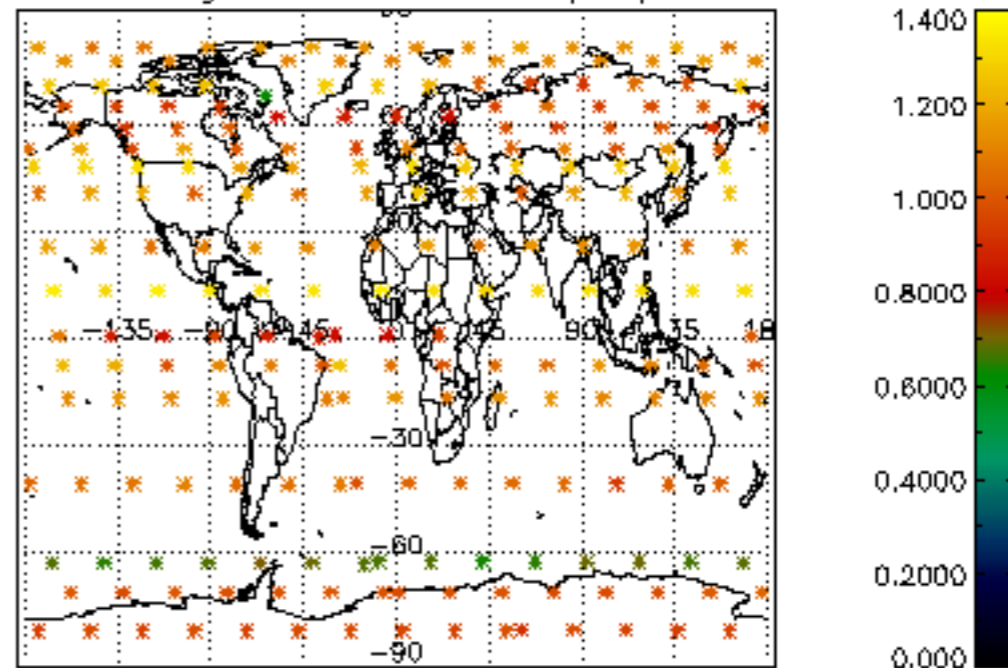




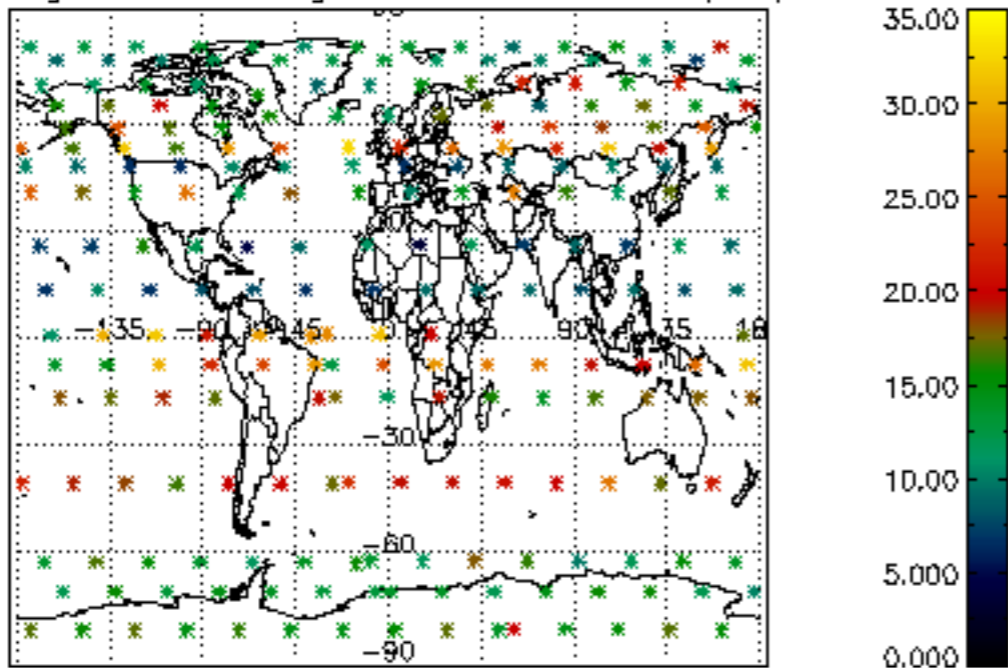
Percentage of cosmic ray hits per profile



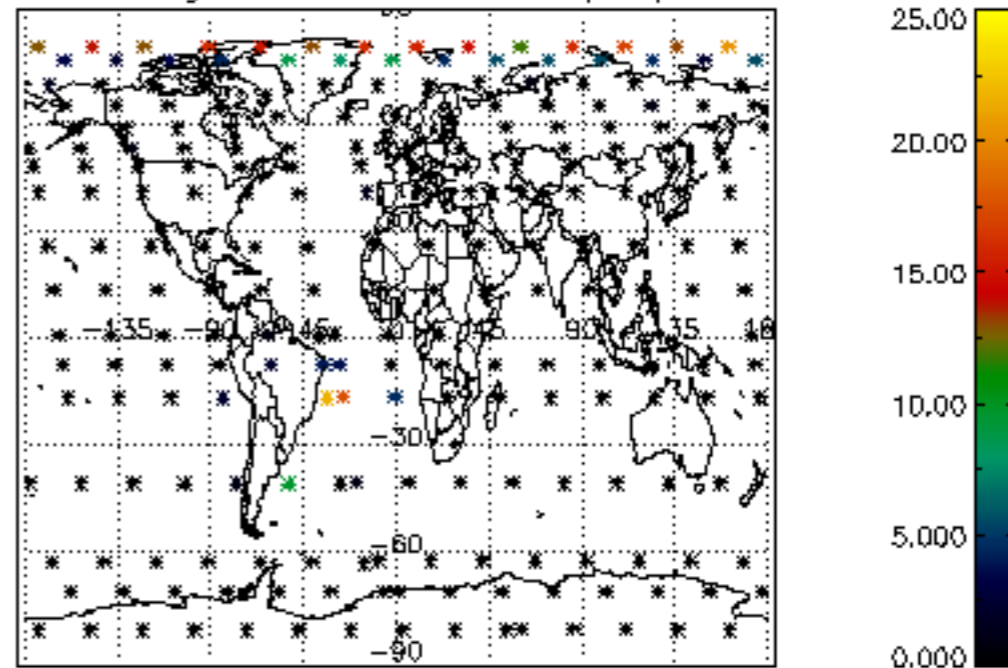
Percentage of datation errors per profile



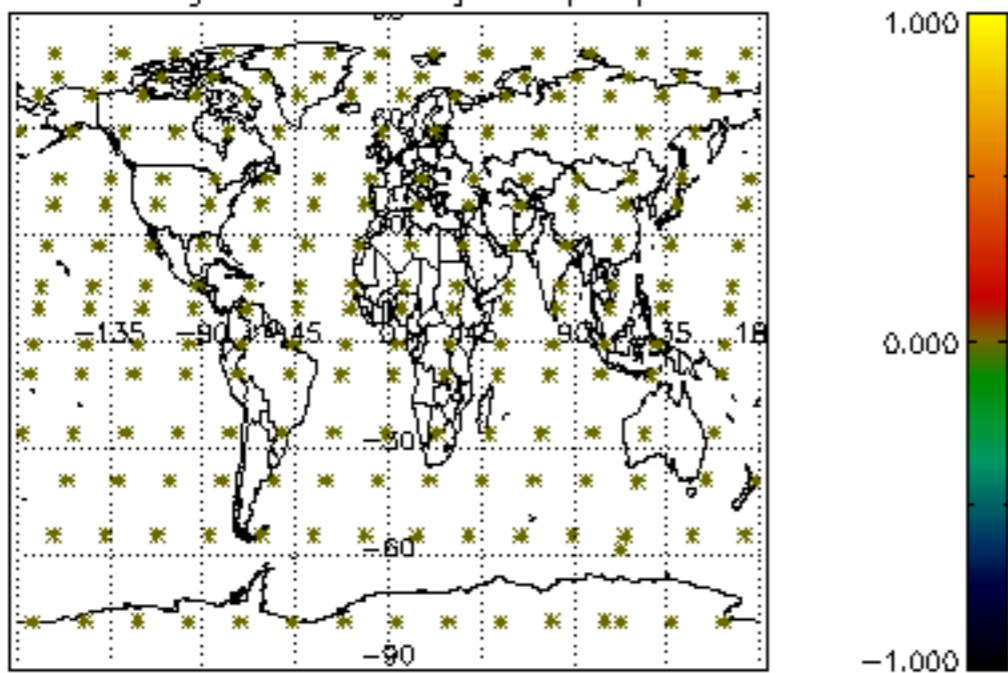
Percentage of star falling outside central band per profile



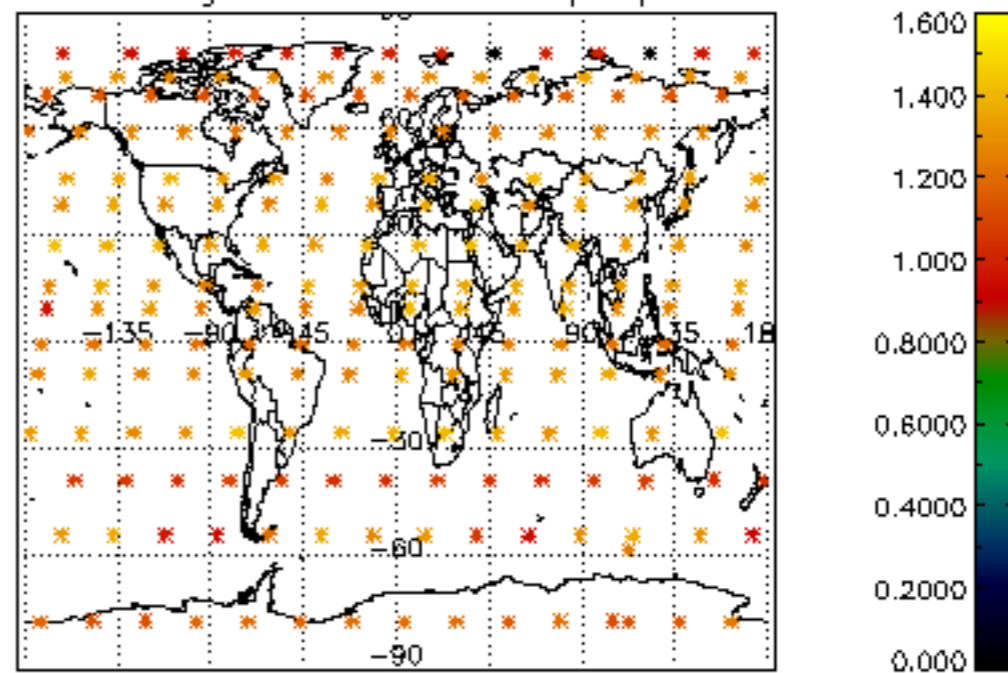
Percentage of saturation errors per profile



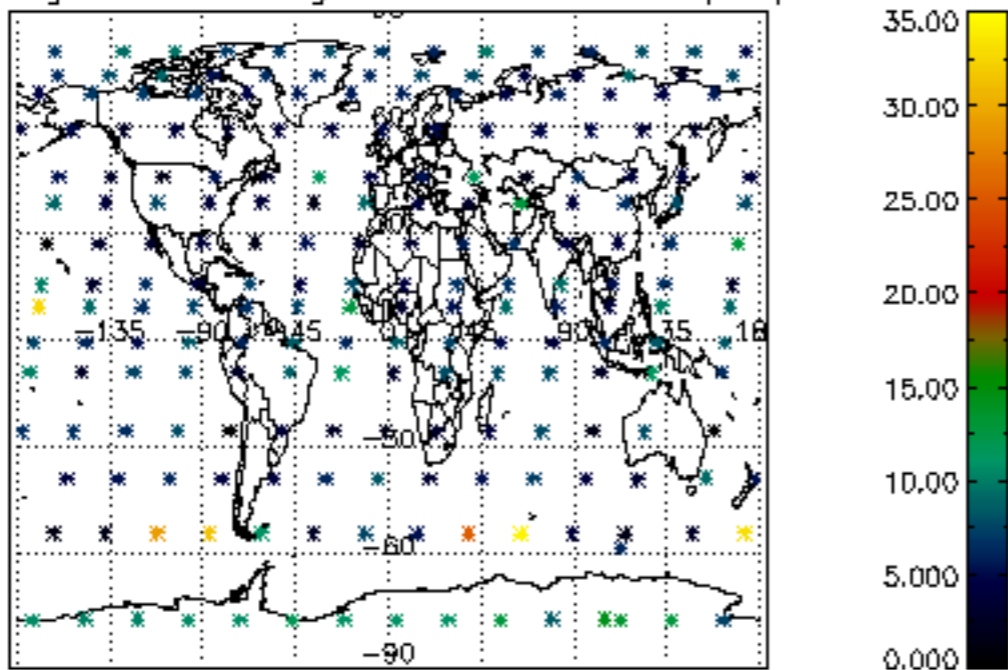
Percentage of cosmic ray hits per profile



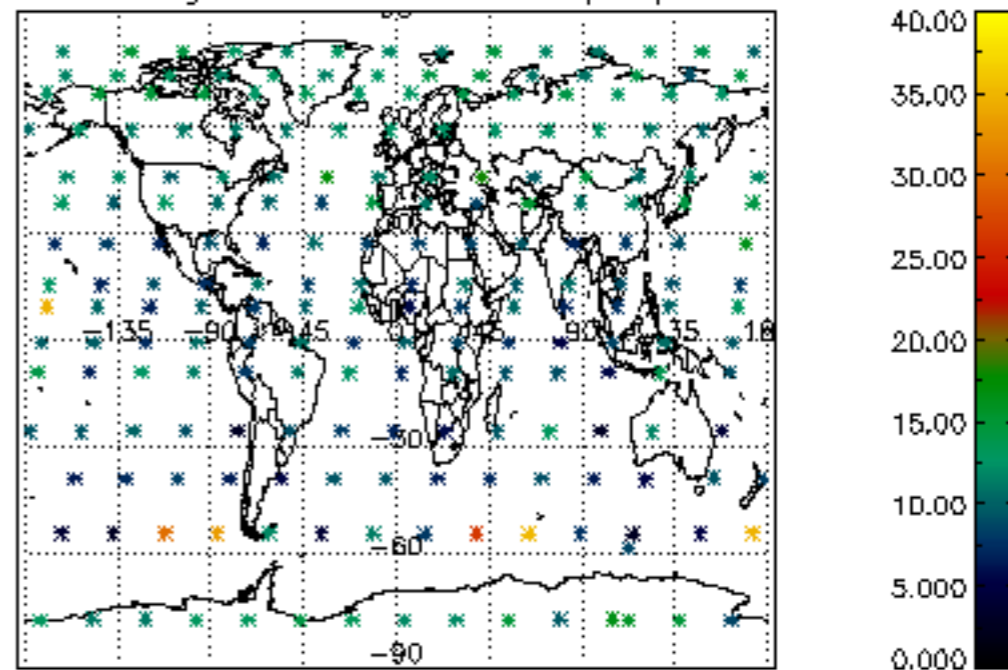
Percentage of datation errors per profile

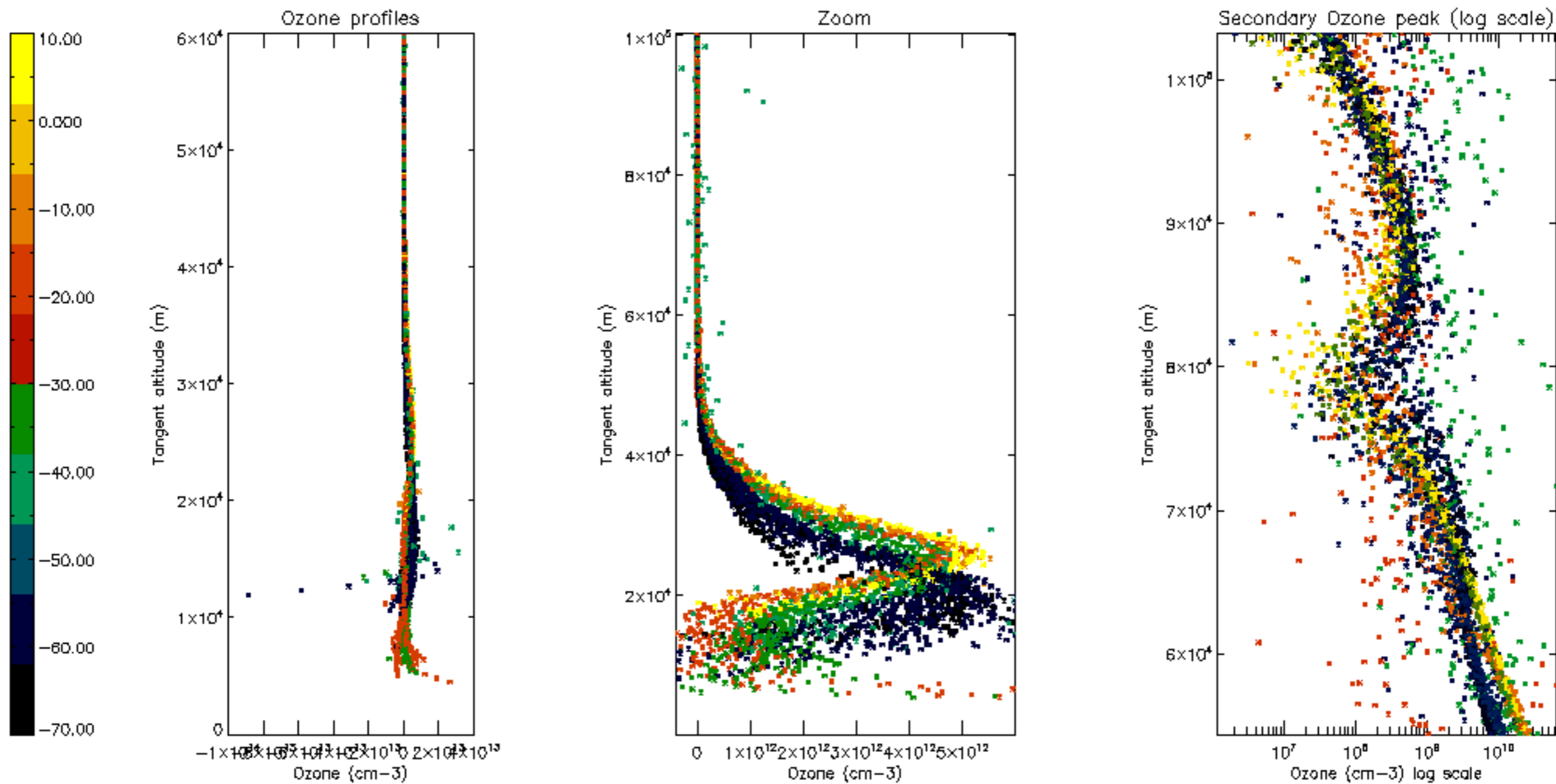


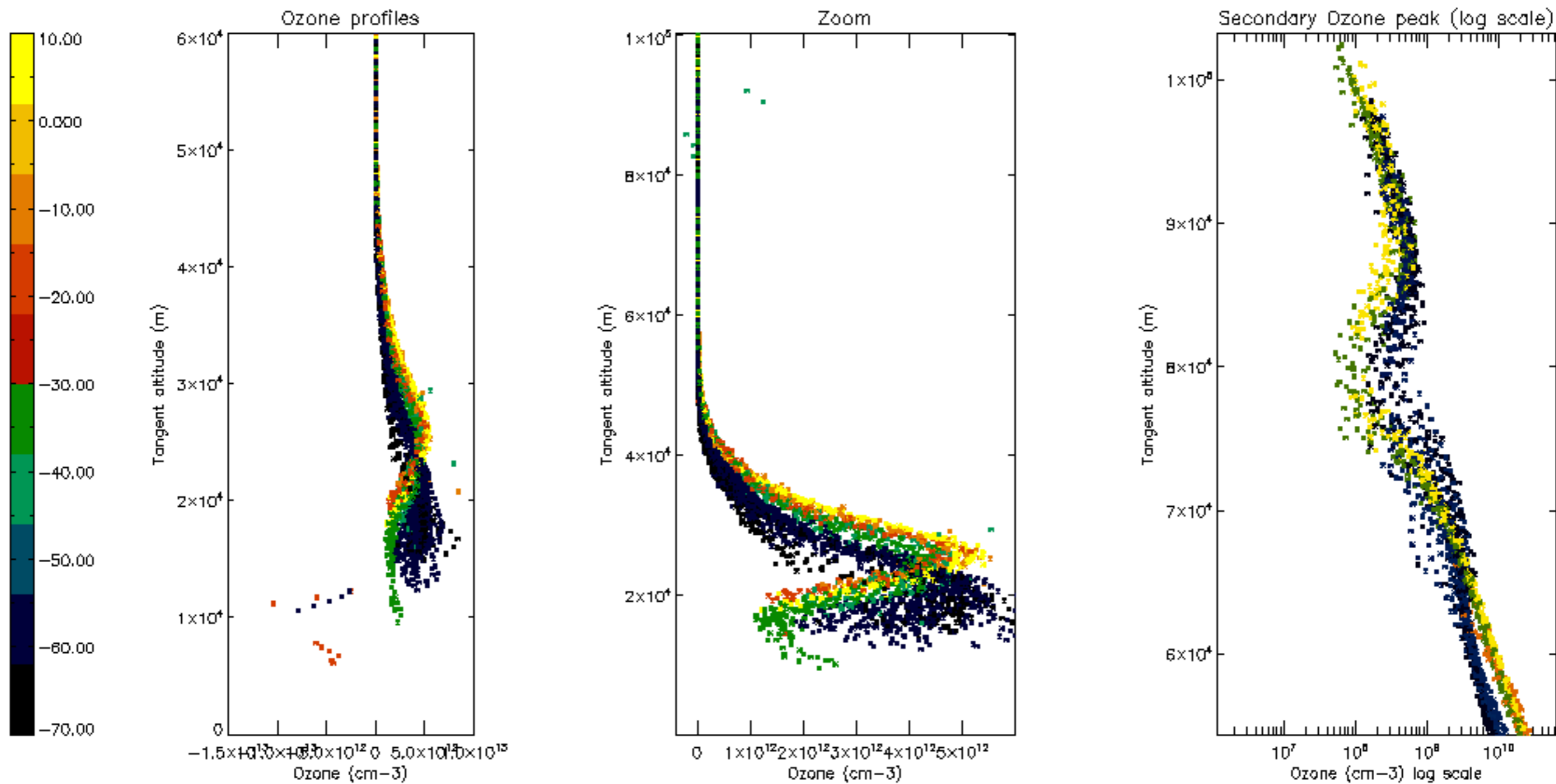
Percentage of star falling outside central band per profile

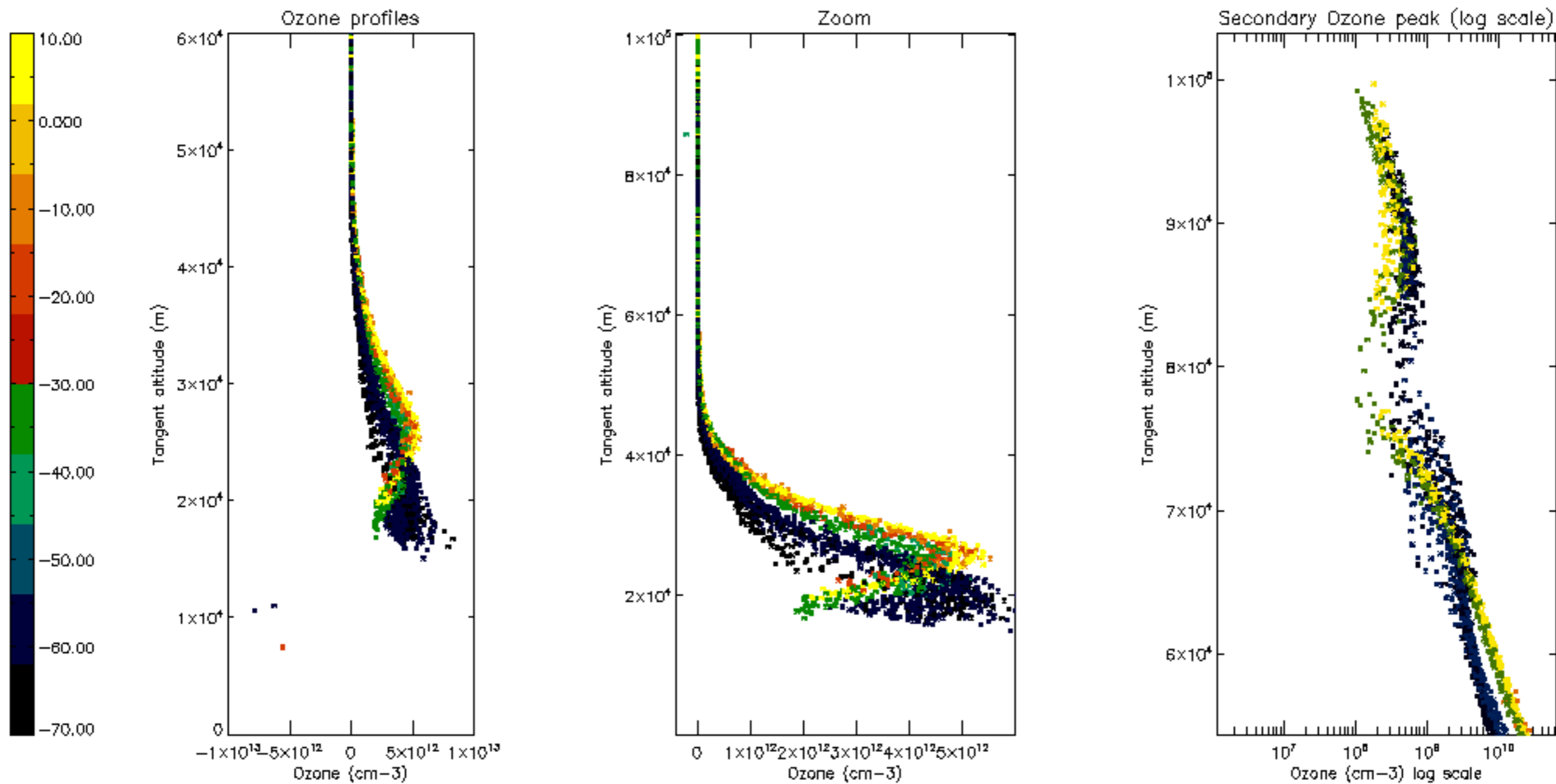


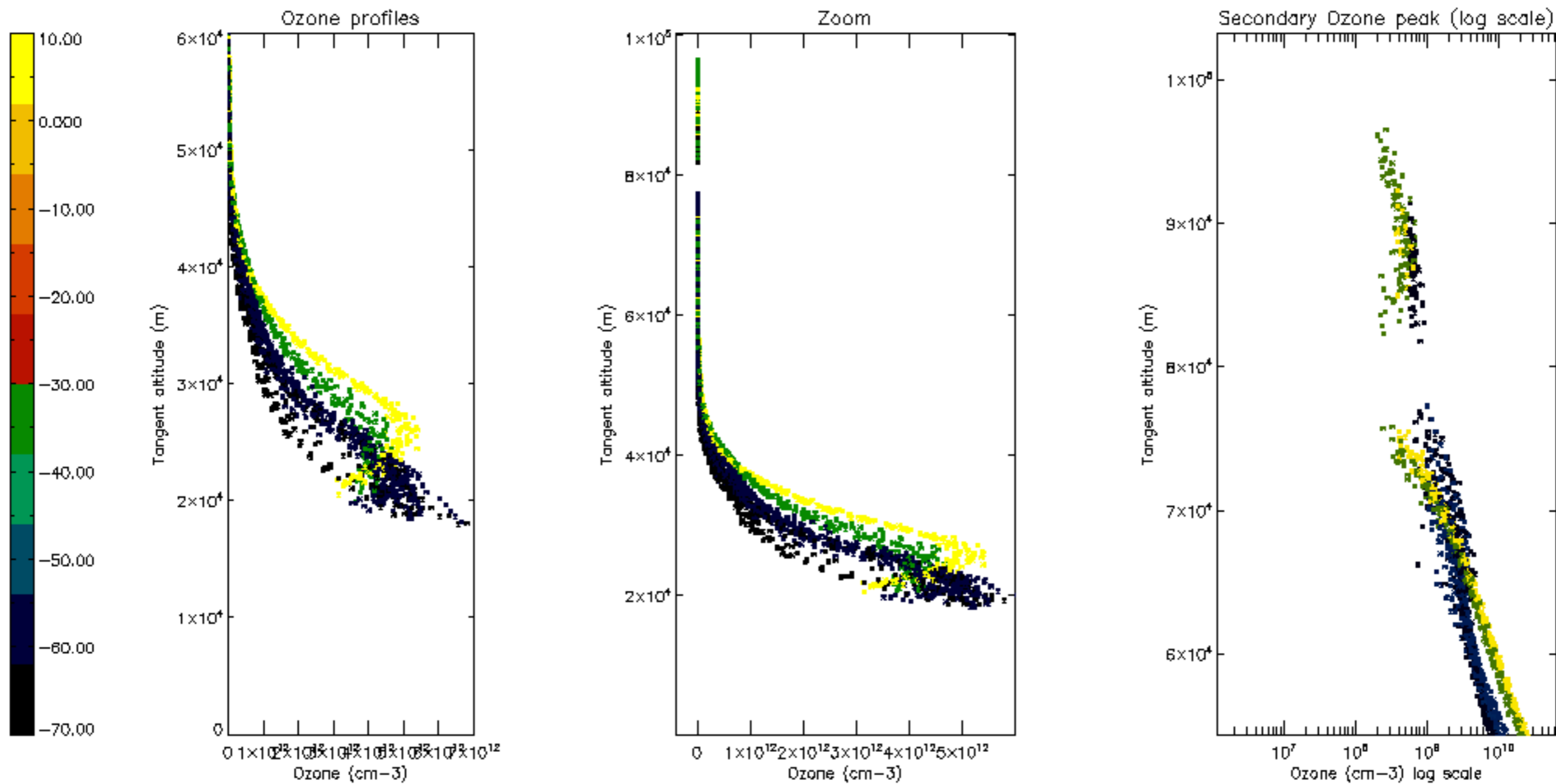
Percentage of saturation errors per profile

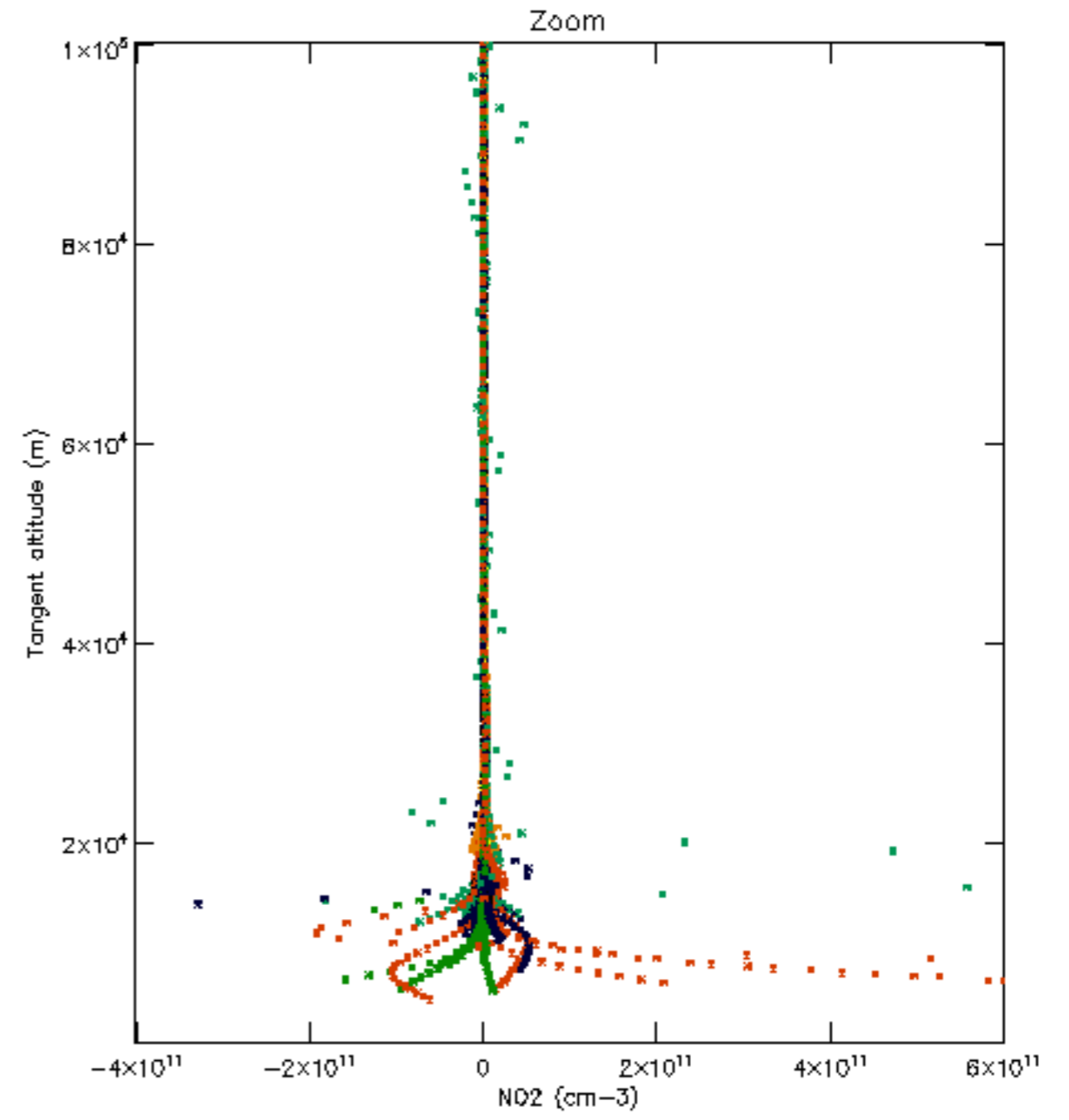
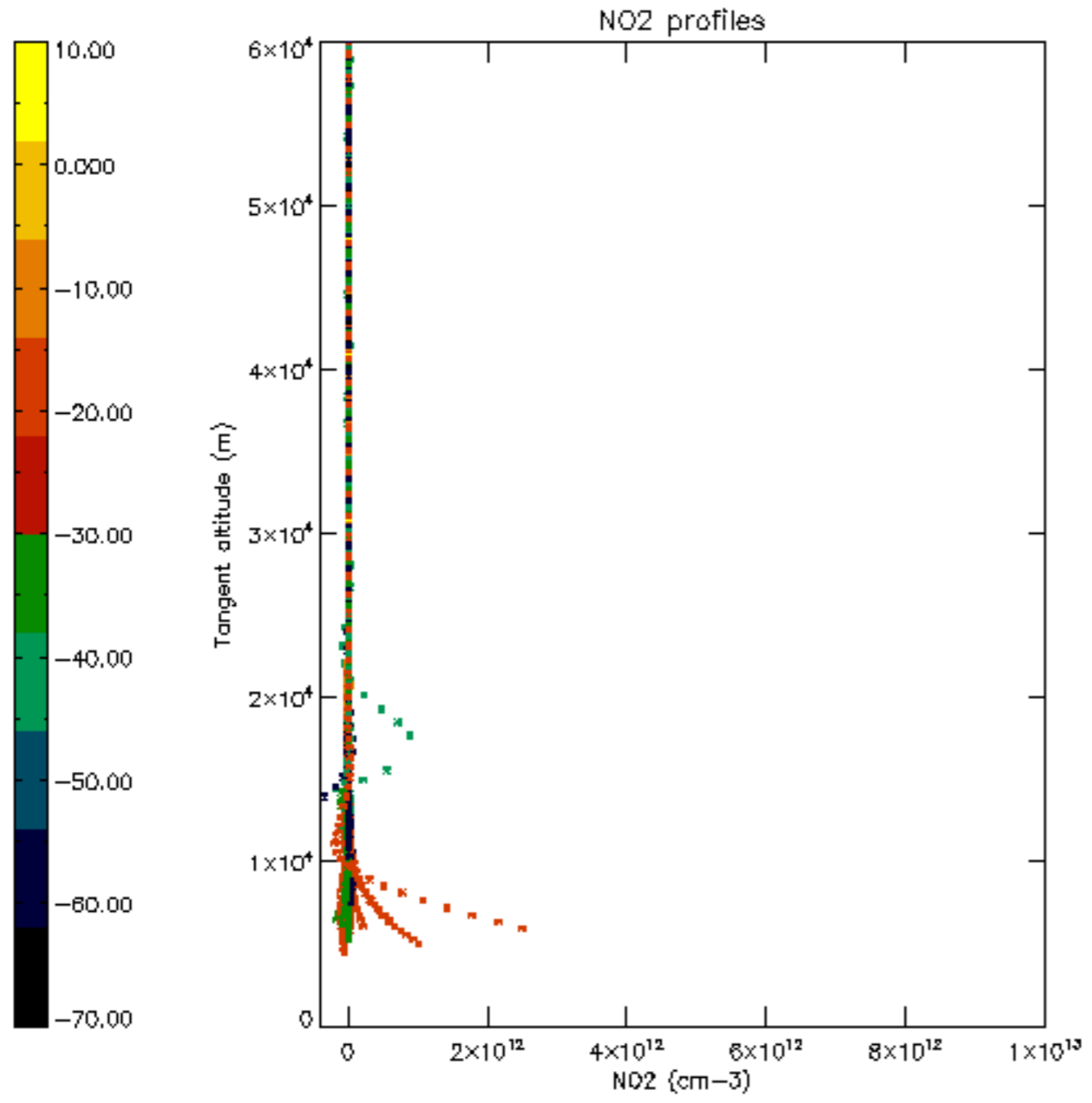


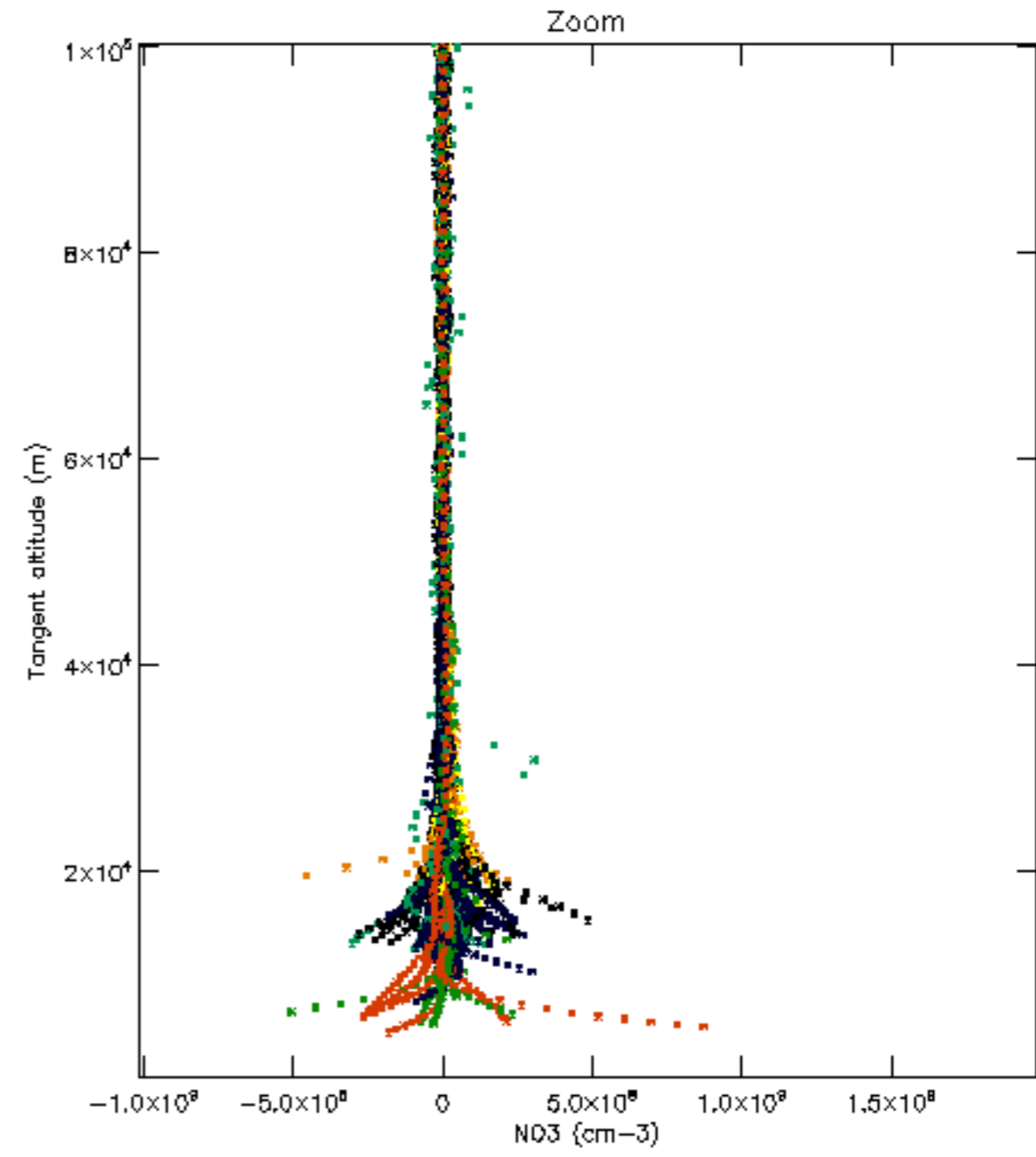
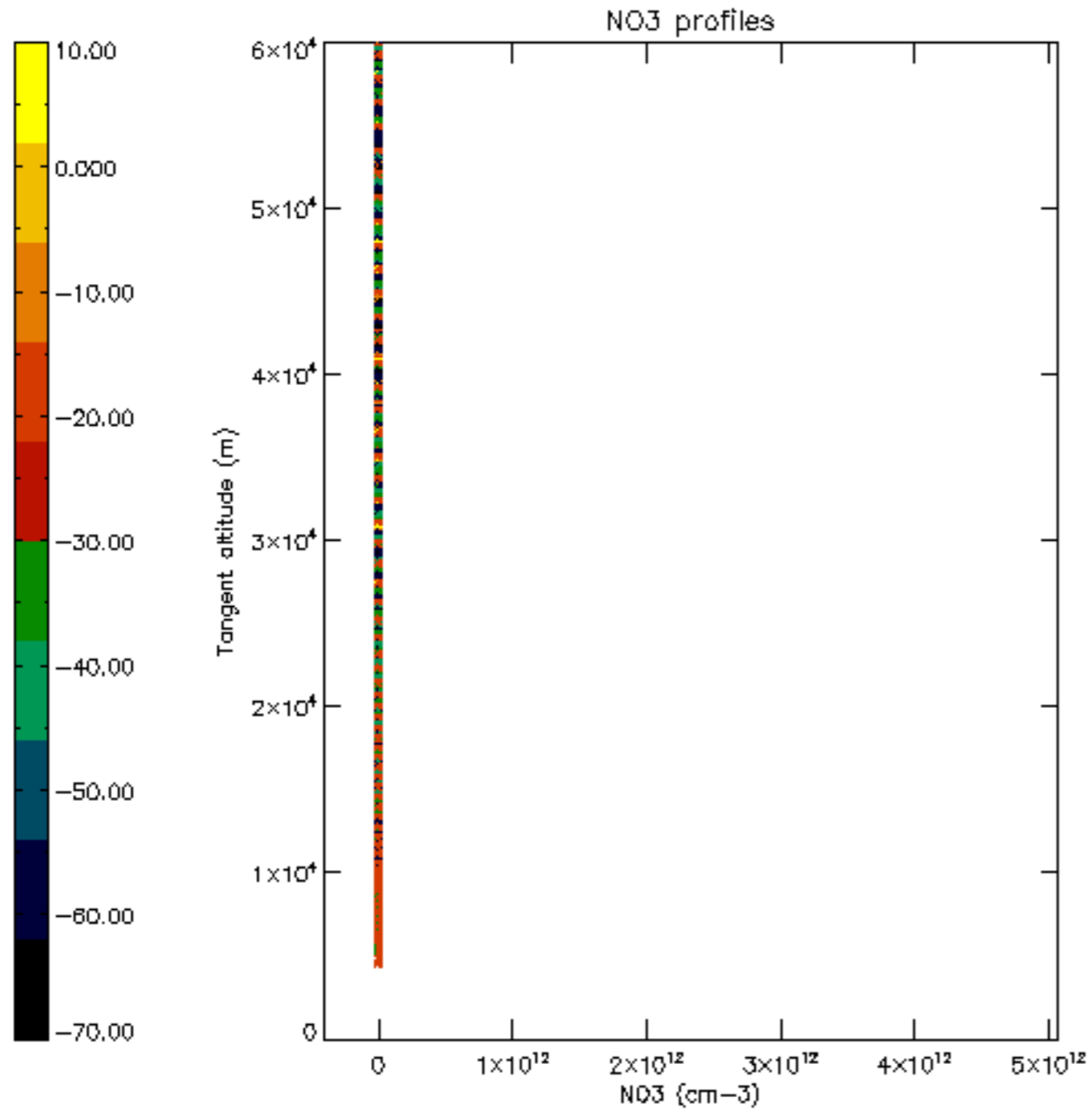


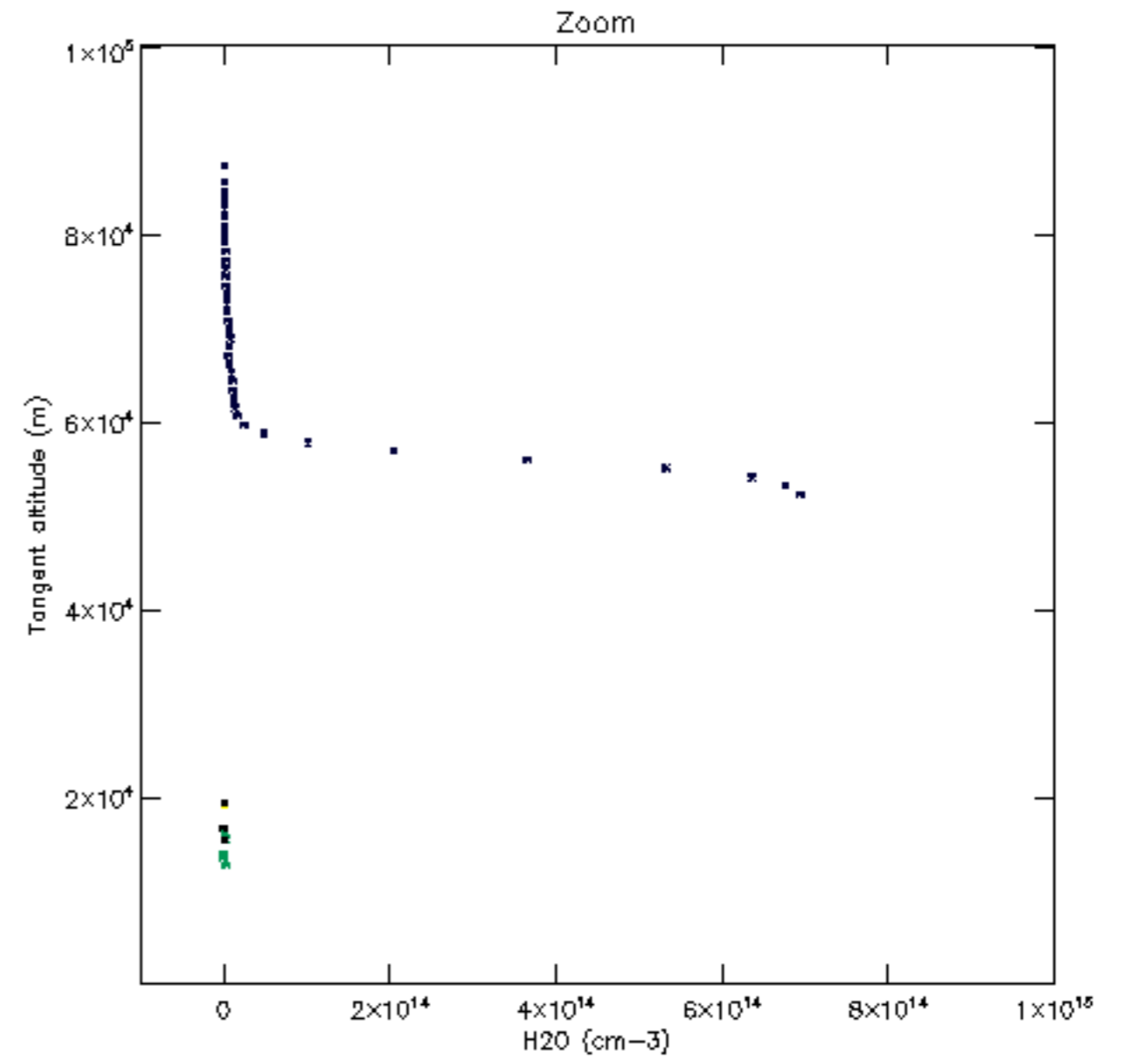
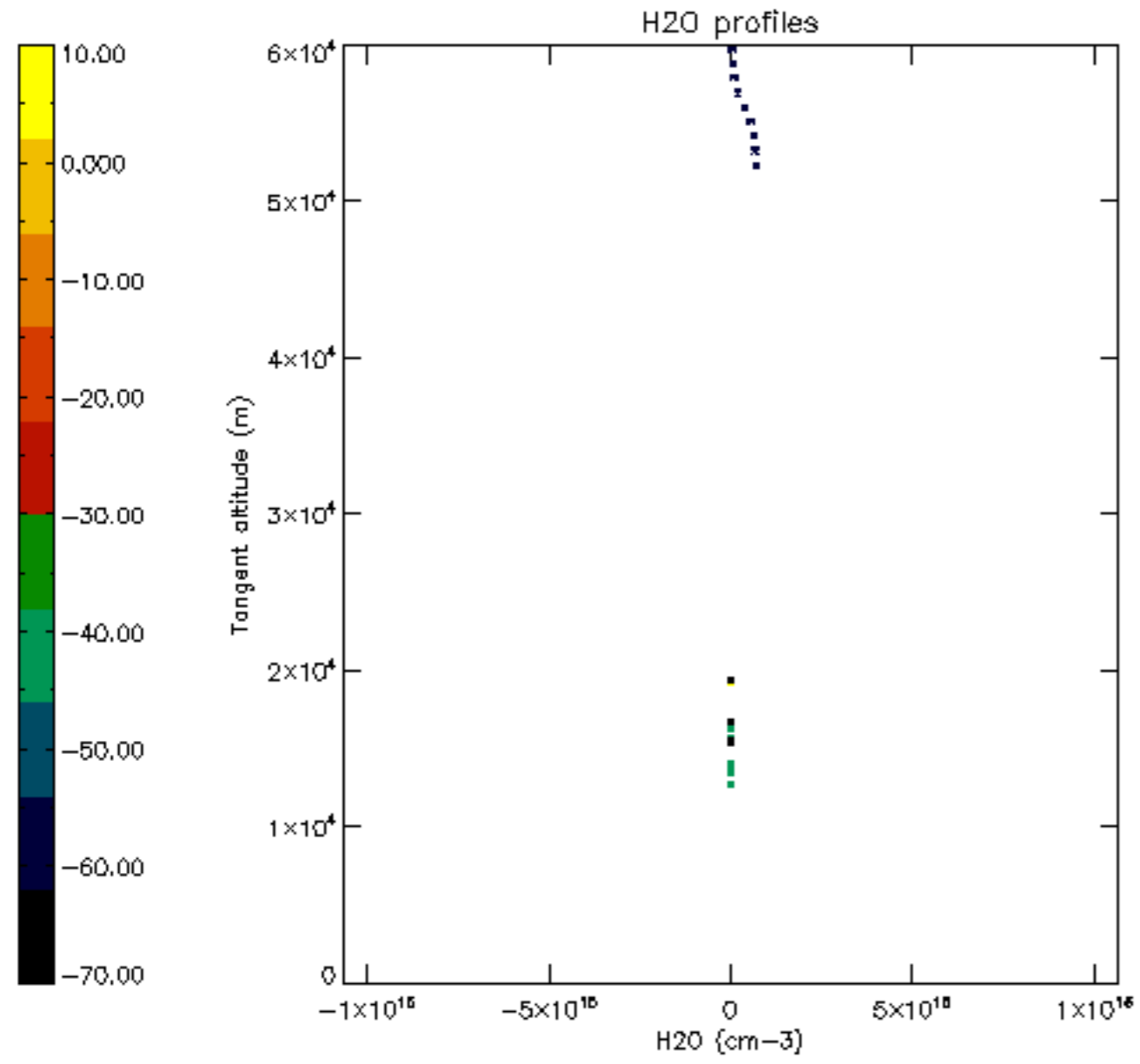


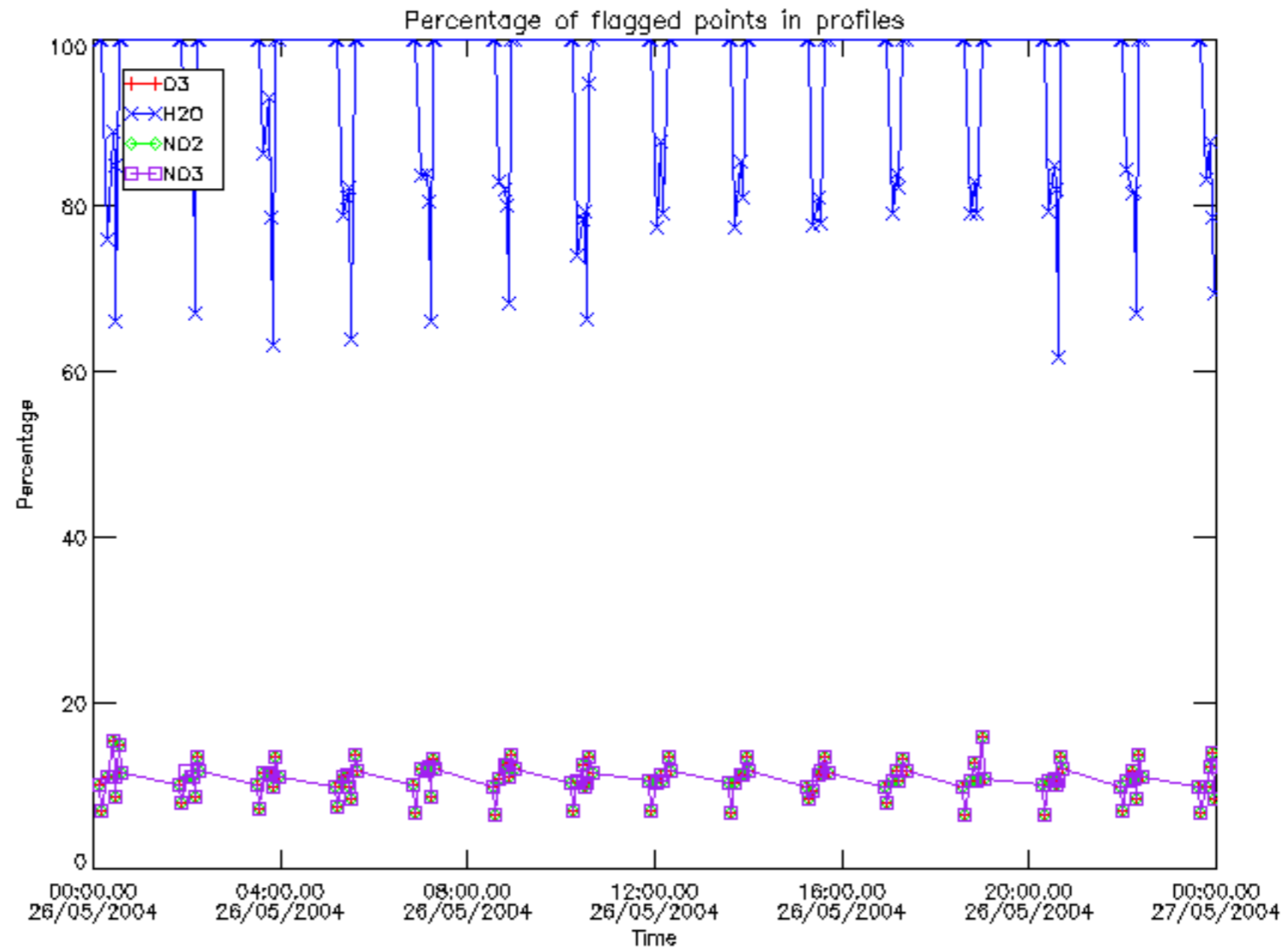




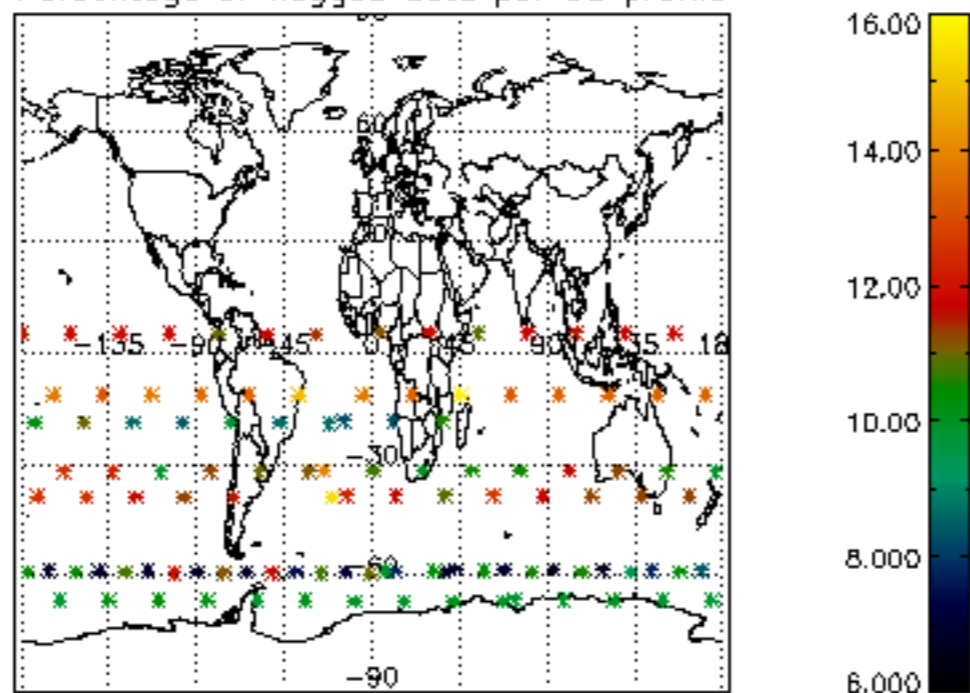




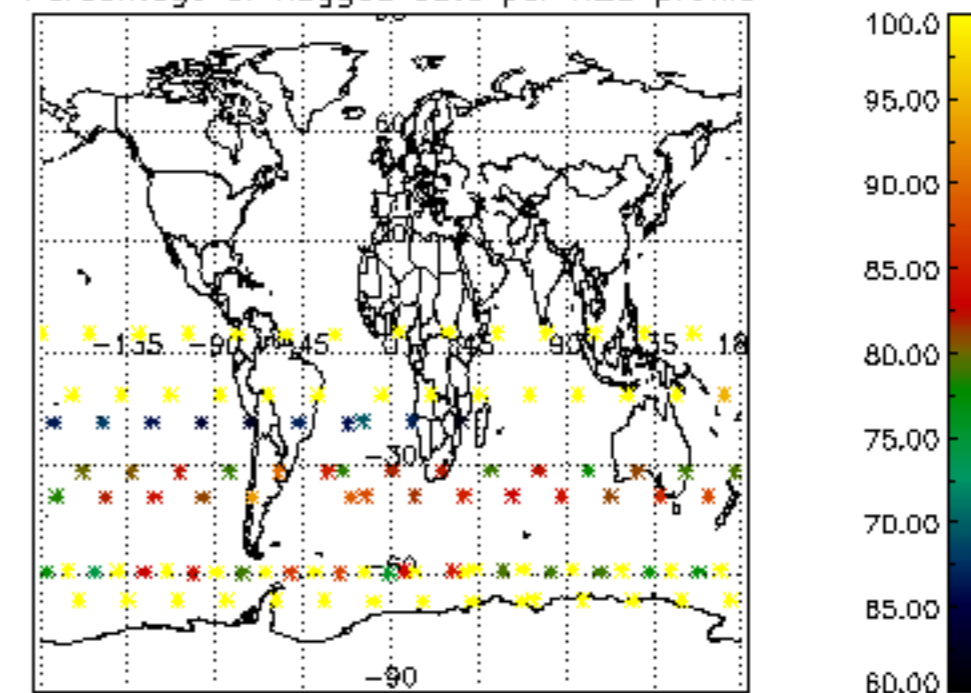




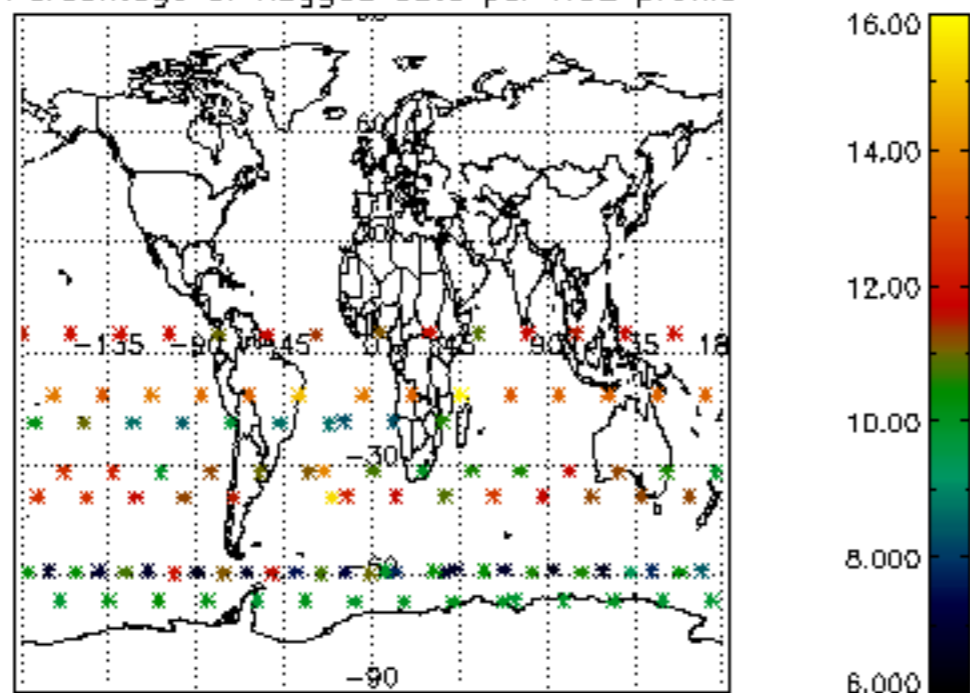
Percentage of flagged data per D3 profile



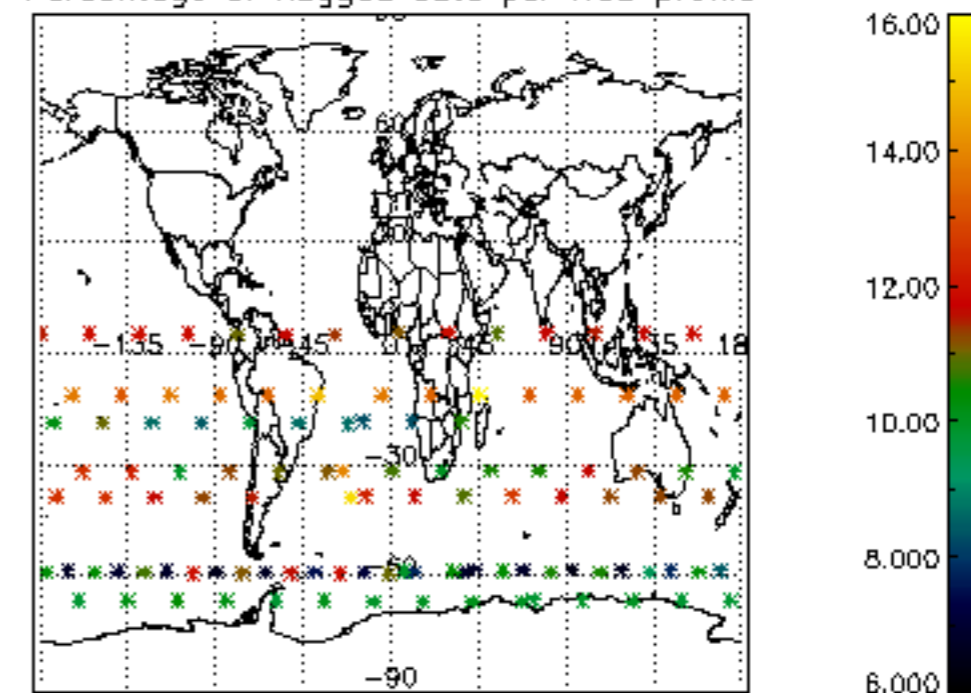
Percentage of flagged data per H2O profile

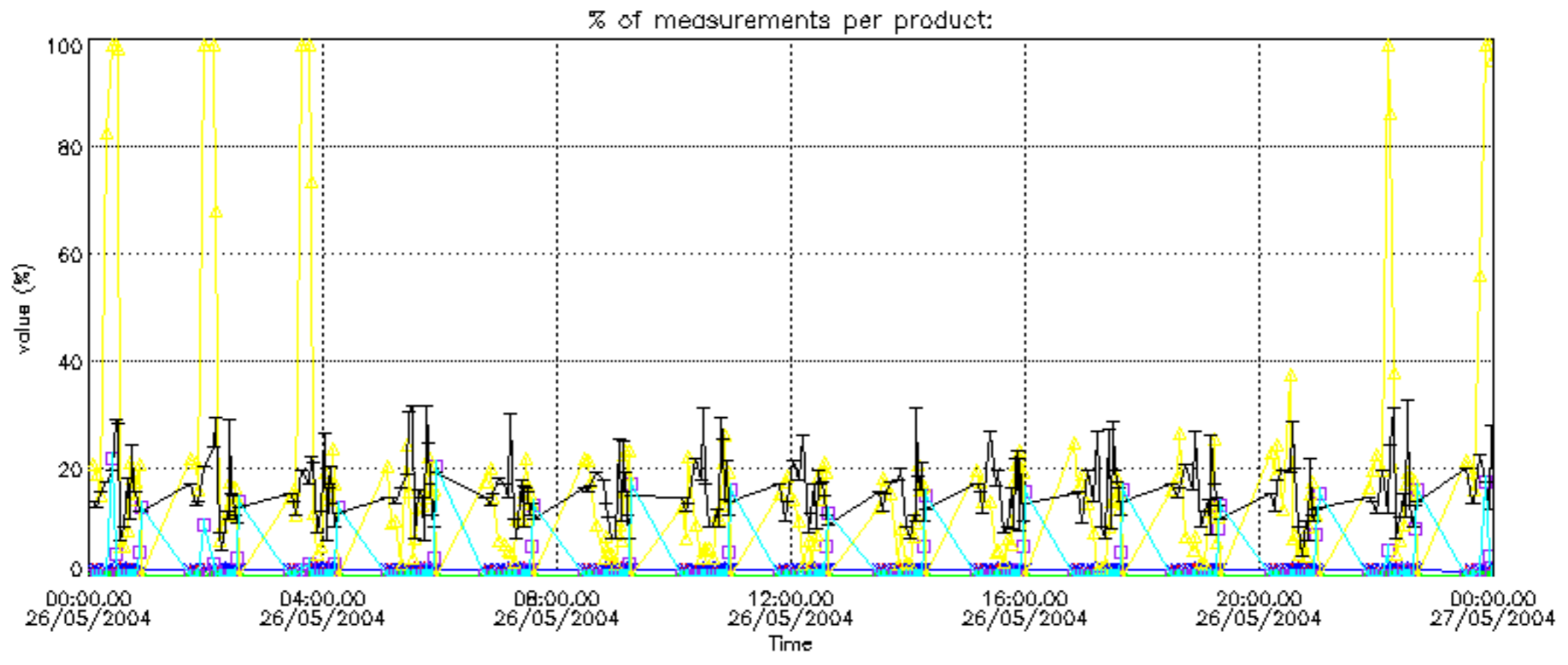


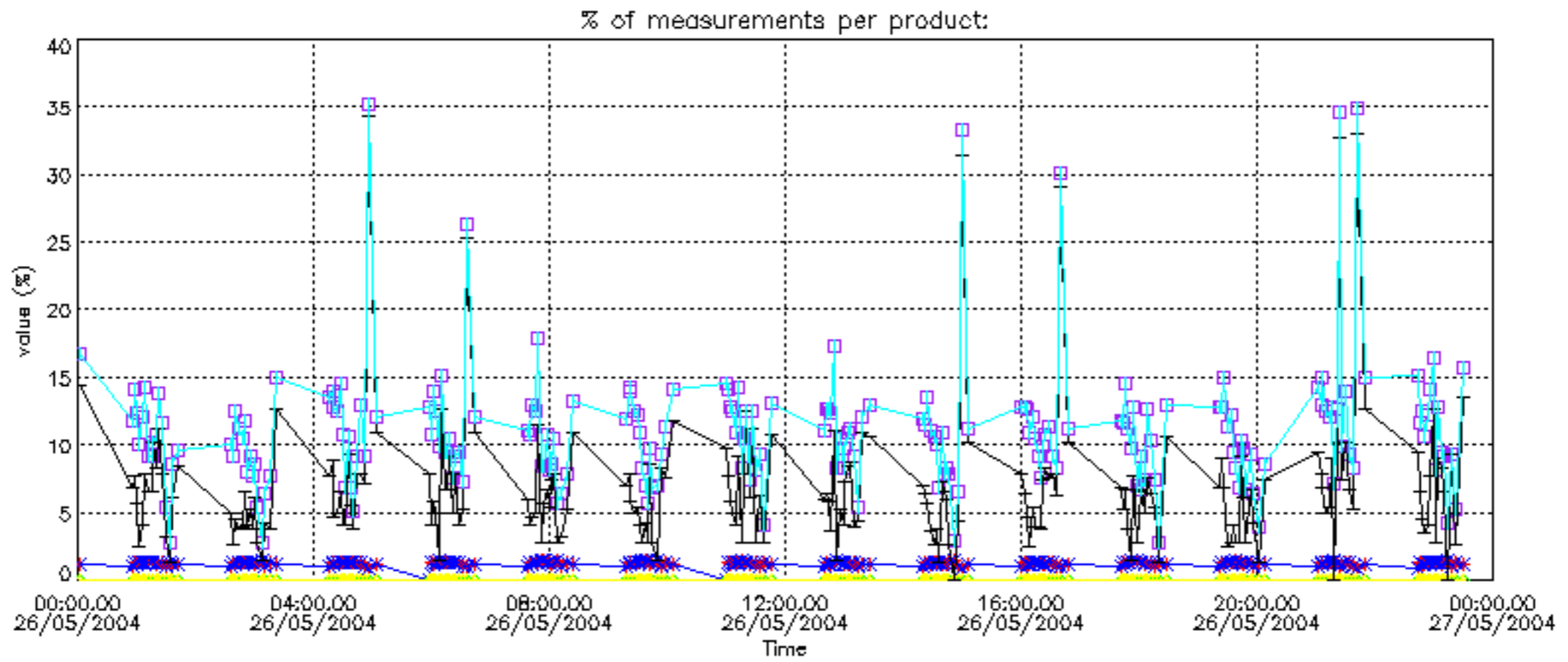
Percentage of flagged data per NO2 profile



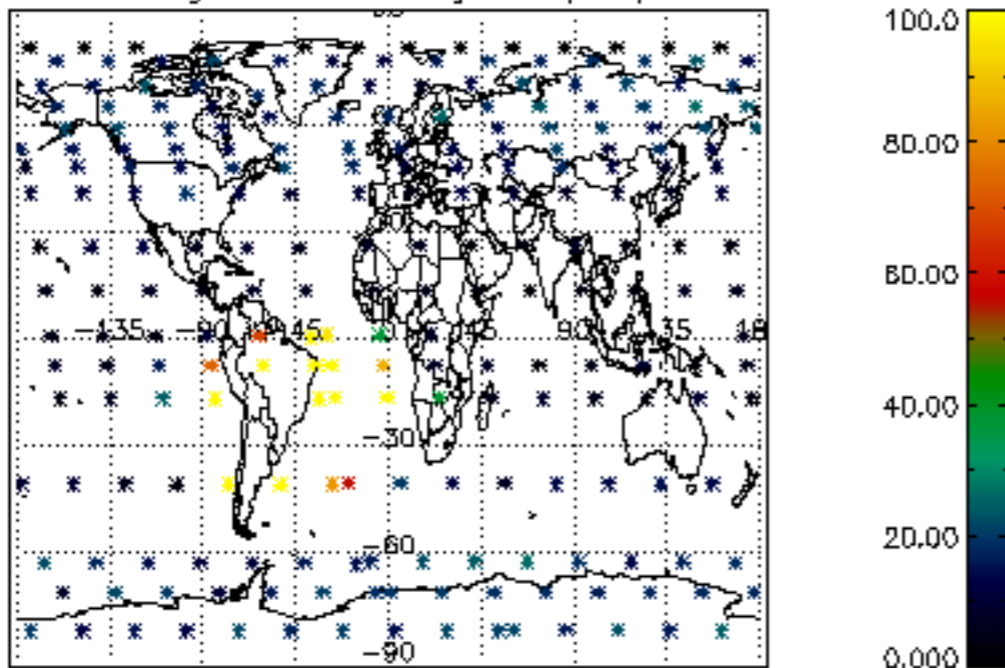
Percentage of flagged data per NO3 profile



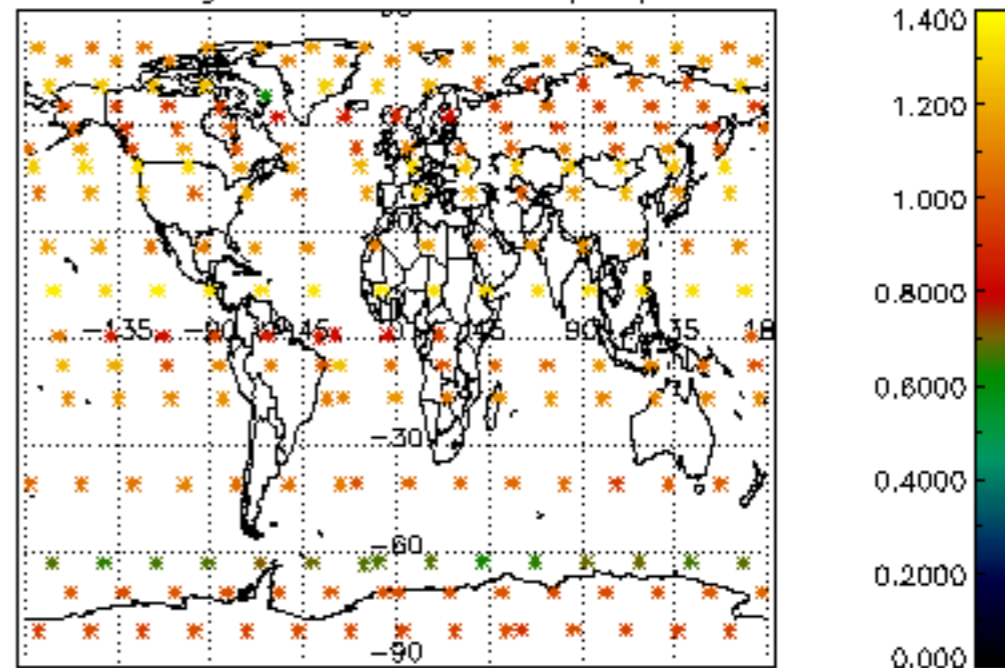




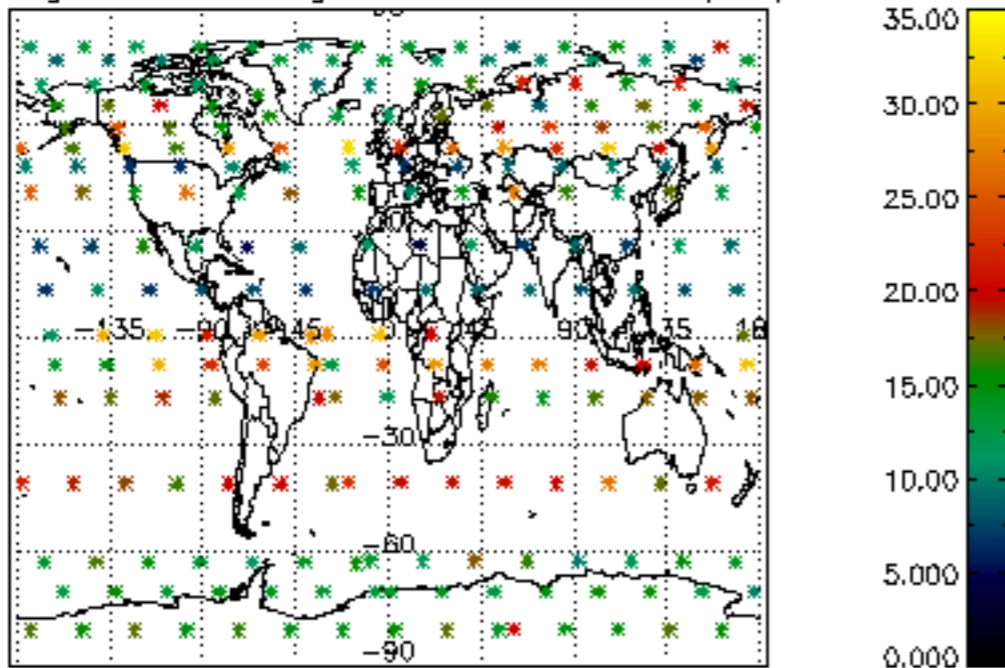
Percentage of cosmic ray hits per profile



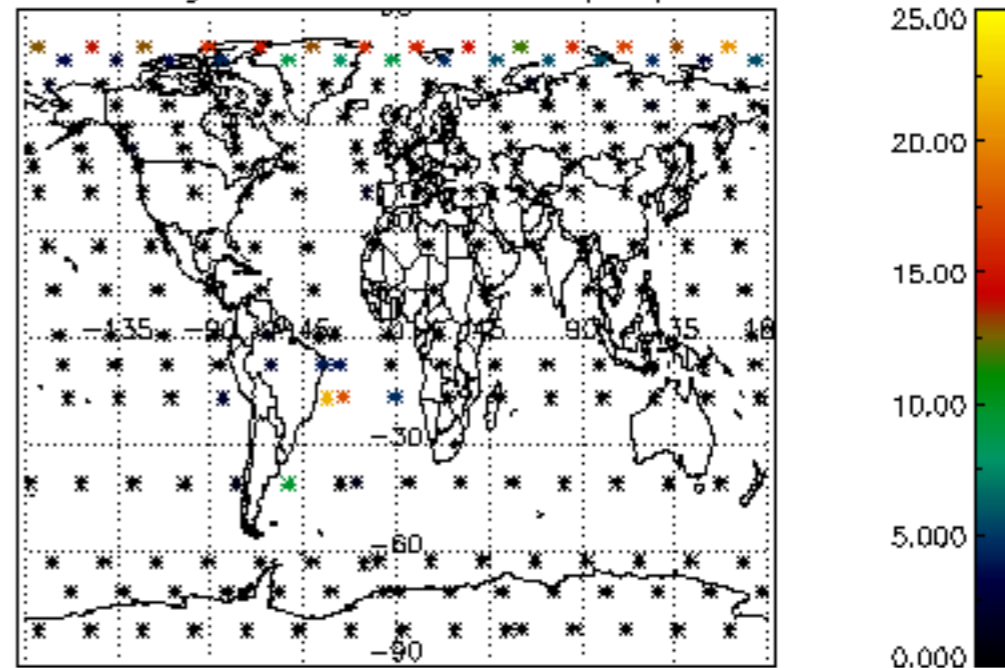
Percentage of datation errors per profile



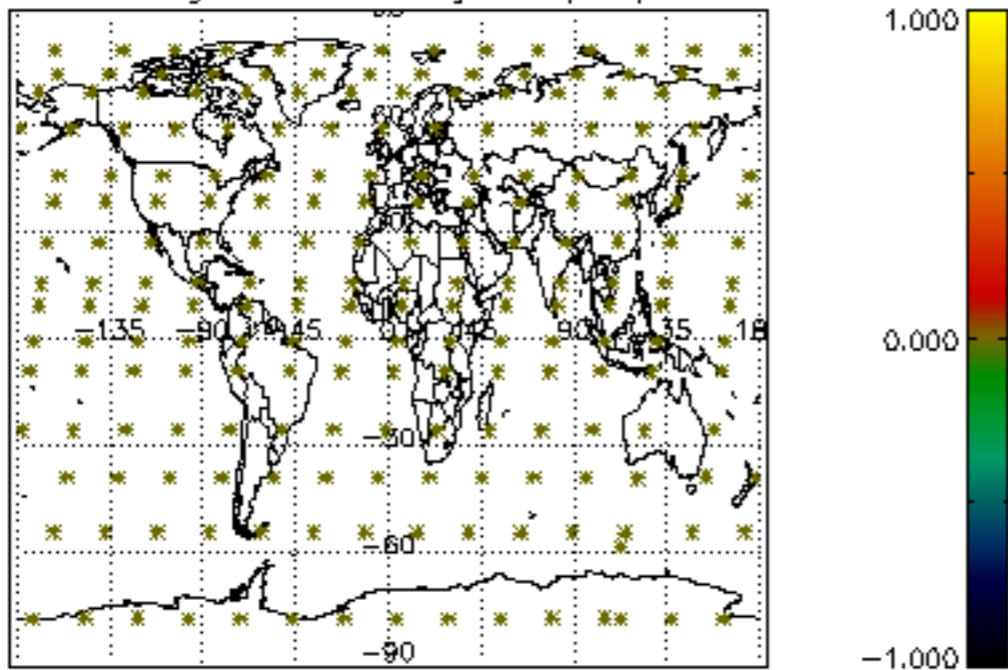
Percentage of star falling outside central band per profile



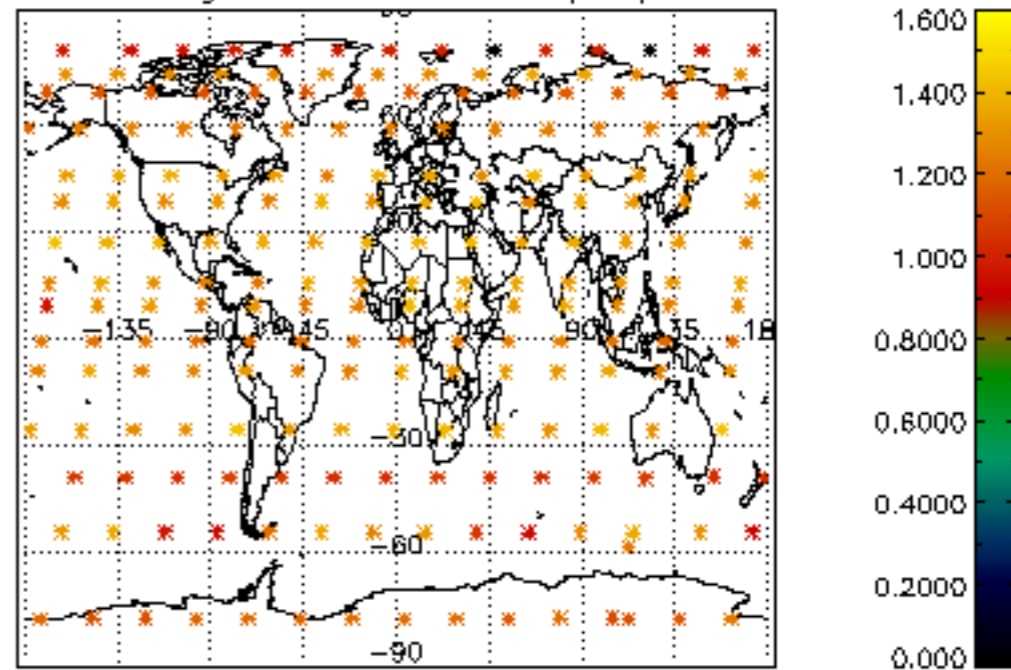
Percentage of saturation errors per profile



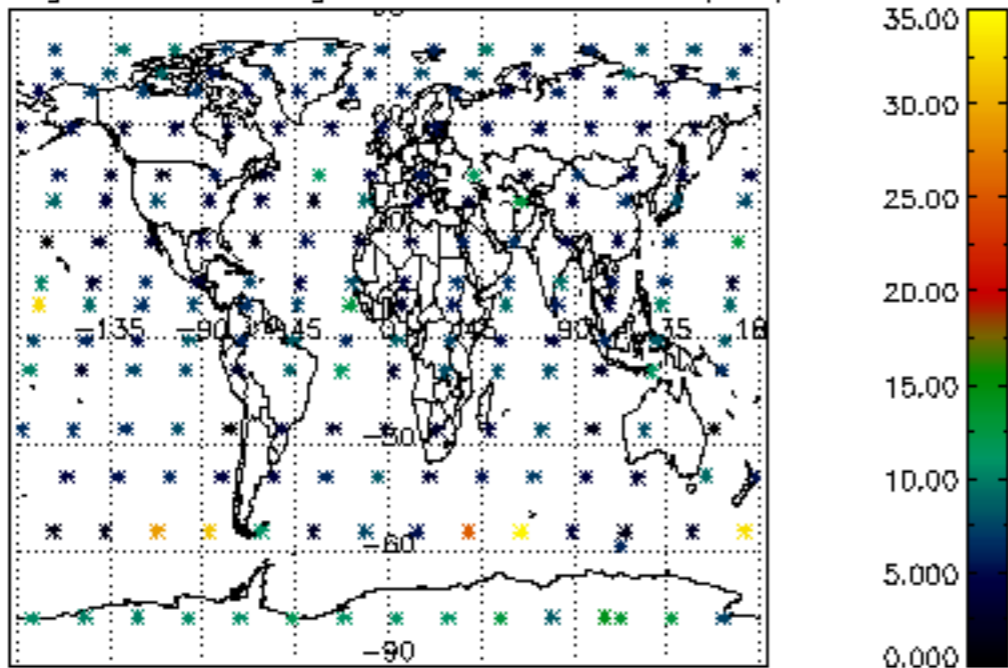
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

