

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	18APR2013 14:06:44
Data source version	GOMOS/6.01
Start time of products	17-02-2012 (17FEB2012 00:00:00)
Stop time of products	18-02-2012 (18FEB2012 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	41
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

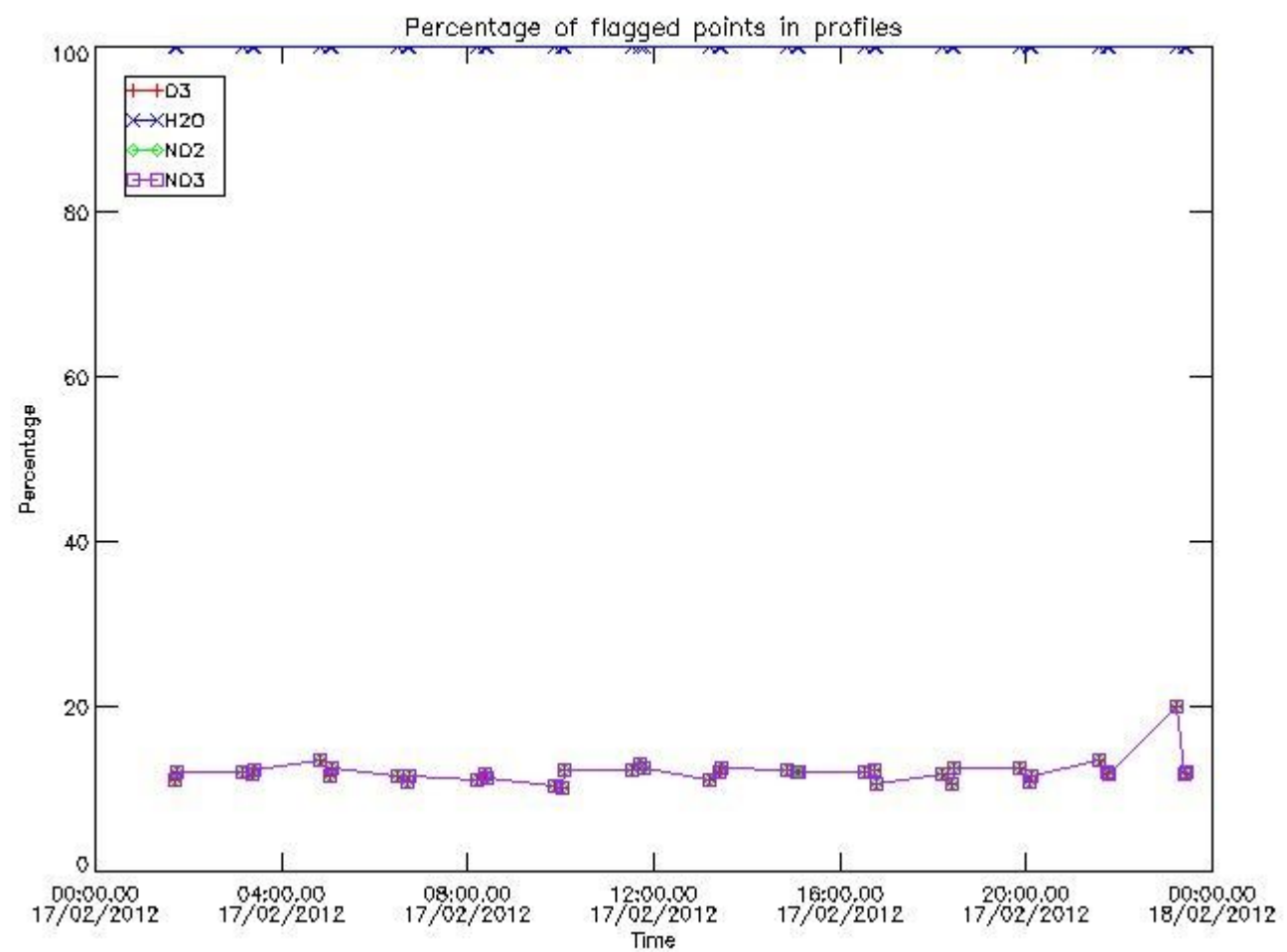
!Warning: No products without errors in BRIGHT limb contitions found

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20120217_014152_000000463111_00391_52129_3201.N1	17-FEB-2012 01:41:52	Dark	46.000	10	Bet Cen	0.61000	28000.	92	52129	No
2	GOM_NL__2PRFIN20120217_014439_000000423111_00391_52129_3202.N1	17-FEB-2012 01:44:39	Dark	42.000	20	Bet Cru	1.2530	30000.	84	52129	No
3	GOM_NL__2PRFIN20120217_031011_000000423111_00391_52129_3203.N1	17-FEB-2012 03:10:11	Dark	42.000	25	35Lam Sco	1.6200	28000.	84	52129	No
4	GOM_NL__2PRFIN20120217_032206_000000433111_00392_52130_3222.N1	17-FEB-2012 03:22:06	Dark	43.000	10	Bet Cen	0.61000	28000.	86	52130	No
5	GOM_NL__2PRFIN20120217_032454_000000413111_00392_52130_3223.N1	17-FEB-2012 03:24:54	Dark	41.000	20	Bet Cru	1.2530	30000.	82	52130	No
6	GOM_NL__2PRFIN20120217_045025_000000423111_00392_52130_3224.N1	17-FEB-2012 04:50:25	Dark	41.500	25	35Lam Sco	1.6200	28000.	83	52130	No
7	GOM_NL__2PRFIN20120217_050221_000000443111_00393_52131_3227.N1	17-FEB-2012 05:02:21	Dark	44.000	10	Bet Cen	0.61000	28000.	88	52131	No
8	GOM_NL__2PRFIN20120217_050508_000000413111_00393_52131_3228.N1	17-FEB-2012 05:05:08	Dark	40.500	20	Bet Cru	1.2530	30000.	81	52131	No
9	GOM_NL__2PRFIN20120217_063040_000000443111_00393_52131_3229.N1	17-FEB-2012 06:30:40	Dark	44.000	25	35Lam Sco	1.6200	28000.	88	52131	No
10	GOM_NL__2PRFIN20120217_064235_000000473111_00394_52132_3239.N1	17-FEB-2012 06:42:35	Dark	47.000	10	Bet Cen	0.61000	28000.	94	52132	No
11	GOM_NL__2PRFIN20120217_064523_000000443111_00394_52132_3240.N1	17-FEB-2012 06:45:23	Dark	44.000	20	Bet Cru	1.2530	30000.	88	52132	No
12	GOM_NL__2PRFIN20120217_081055_000000463111_00394_52132_3241.N1	17-FEB-2012 08:10:55	Dark	46.000	25	35Lam Sco	1.6200	28000.	92	52132	No
13	GOM_NL__2PRFIN20120217_082250_000000443111_00395_52133_3265.N1	17-FEB-2012 08:22:50	Dark	43.500	10	Bet Cen	0.61000	28000.	87	52133	No
14	GOM_NL__2PRFIN20120217_082537_000000493111_00395_52133_3266.N1	17-FEB-2012 08:25:37	Dark	49.000	20	Bet Cru	1.2530	30000.	98	52133	No
15	GOM_NL__2PRFIN20120217_095109_000000503111_00395_52133_3267.N1	17-FEB-2012 09:51:09	Dark	49.500	25	35Lam Sco	1.6200	28000.	99	52133	No
16	GOM_NL__2PRFIN20120217_100304_000000513111_00396_52134_3477.N1	17-FEB-2012 10:03:04	Dark	50.500	10	Bet Cen	0.61000	28000.	101	52134	No
17	GOM_NL__2PRFIN20120217_100552_000000413111_00396_52134_3478.N1	17-FEB-2012 10:05:52	Dark	41.000	20	Bet Cru	1.2530	30000.	82	52134	No
18	GOM_NL__2PRFIN20120217_113124_000000423111_00396_52134_3479.N1	17-FEB-2012 11:31:24	Dark	41.500	25	35Lam Sco	1.6200	28000.	83	52134	No
19	GOM_NL__2PRFIN20120217_114319_000000433111_00397_52135_3370.N1	17-FEB-2012 11:43:19	Dark	43.000	10	Bet Cen	0.61000	28000.	86	52135	No
20	GOM_NL__2PRFIN20120217_114606_000000403111_00397_52135_3371.N1	17-FEB-2012 11:46:06	Dark	40.000	20	Bet Cru	1.2530	30000.	80	52135	No
21	GOM_NL__2PRFIN20120217_131138_000000463111_00397_52135_3372.N1	17-FEB-2012 13:11:38	Dark	45.500	25	35Lam Sco	1.6200	28000.	91	52135	No
22	GOM_NL__2PRFIN20120217_132333_000000433111_00398_52136_3394.N1	17-FEB-2012 13:23:33	Dark	42.500	10	Bet Cen	0.61000	28000.	85	52136	No
23	GOM_NL__2PRFIN20120217_132621_000000453111_00398_52136_3395.N1	17-FEB-2012 13:26:21	Dark	44.500	20	Bet Cru	1.2530	30000.	89	52136	No
24	GOM_NL__2PRFIN20120217_145153_000000463111_00398_52136_3396.N1	17-FEB-2012 14:51:53	Dark	45.500	25	35Lam Sco	1.6200	28000.	91	52136	No
25	GOM_NL__2PRFIN20120217_150348_000000423111_00399_52137_3429.N1	17-FEB-2012 15:03:48	Dark	42.000	10	Bet Cen	0.61000	28000.	84	52137	No
26	GOM_NL__2PRFIN20120217_150635_000000423111_00399_52137_3430.N1	17-FEB-2012 15:06:35	Dark	42.000	20	Bet Cru	1.2530	30000.	84	52137	No
27	GOM_NL__2PRFIN20120217_163207_000000423111_00399_52137_3431.N1	17-FEB-2012 16:32:07	Dark	42.000	25	35Lam Sco	1.6200	28000.	84	52137	No
28	GOM_NL__2PRFIN20120217_164402_000000423111_00400_52138_3465.N1	17-FEB-2012 16:44:02	Dark	41.500	10	Bet Cen	0.61000	28000.	83	52138	No
29	GOM_NL__2PRFIN20120217_164650_000000483111_00400_52138_3466.N1	17-FEB-2012 16:46:50	Dark	47.500	20	Bet Cru	1.2530	30000.	95	52138	No
30	GOM_NL__2PRFIN20120217_181222_000000433111_00400_52138_3467.N1	17-FEB-2012 18:12:22	Dark	43.000	25	35Lam Sco	1.6200	28000.	86	52138	No
31	GOM_NL__2PRFIN20120217_182417_000000483111_00401_52139_3550.N1	17-FEB-2012 18:24:17	Dark	48.000	10	Bet Cen	0.61000	28000.	96	52139	No
32	GOM_NL__2PRFIN20120217_182704_000000413111_00401_52139_3551.N1	17-FEB-2012 18:27:04	Dark	40.500	20	Bet Cru	1.2530	30000.	81	52139	No
33	GOM_NL__2PRFIN20120217_195237_000000413111_00401_52139_3552.N1	17-FEB-2012 19:52:37	Dark	41.000	25	35Lam Sco	1.6200	28000.	82	52139	No
34	GOM_NL__2PRFIN20120217_200432_000000473111_00402_52140_3536.N1	17-FEB-2012 20:04:32	Dark	47.000	10	Bet Cen	0.61000	28000.	94	52140	No
35	GOM_NL__2PRFIN20120217_200719_000000443111_00402_52140_3537.N1	17-FEB-2012 20:07:19	Dark	44.000	20	Bet Cru	1.2530	30000.	88	52140	No
36	GOM_NL__2PRFIN20120217_213251_000000423111_00402_52140_3538.N1	17-FEB-2012 21:32:51	Dark	41.500	25	35Lam Sco	1.6200	28000.	83	52140	No
37	GOM_NL__2PRFIN20120217_214446_000000423111_00403_52141_3552.N1	17-FEB-2012 21:44:46	Dark	42.000	10	Bet Cen	0.61000	28000.	84	52141	No
38	GOM_NL__2PRFIN20120217_214733_000000433111_00403_52141_3553.N1	17-FEB-2012 21:47:33	Dark	43.000	20	Bet Cru	1.2530	30000.	86	52141	No
39	GOM_NL__2PRFIN20120217_231306_000000383111_00403_52141_3554.N1	17-FEB-2012 23:13:06	Dark	38.000	25	35Lam Sco	1.6200	28000.	76	52141	No
40	GOM_NL__2PRFIN20120217_232501_000000443111_00404_52142_3566.N1	17-FEB-2012 23:25:01	Dark	43.500	10	Bet Cen	0.61000	28000.	87	52142	No
41	GOM_NL__2PRFIN20120217_232748_000000423111_00404_52142_3567.N1	17-FEB-2012 23:27:48	Dark	41.500	20	Bet Cru	1.2530	30000.	83	52142	No

3. Quality information per product

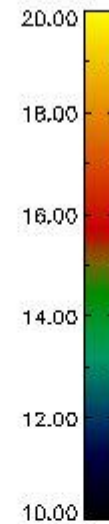
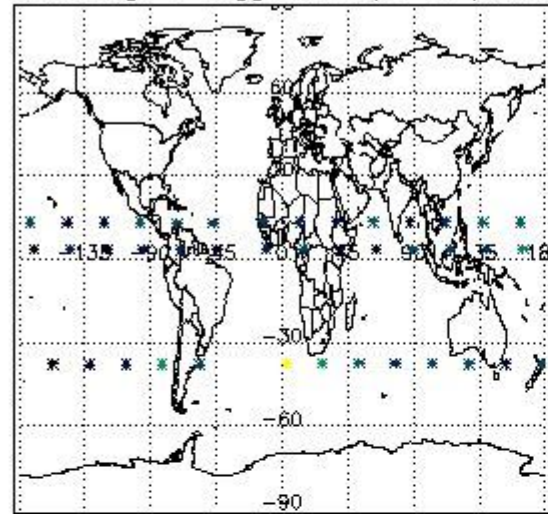
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

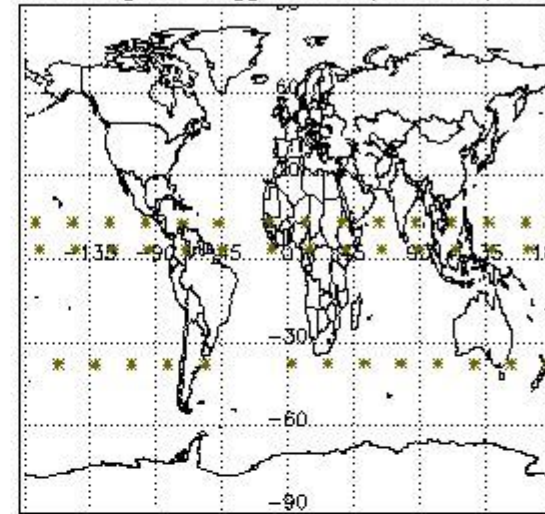


3.2 Plot quality information per product (world map)

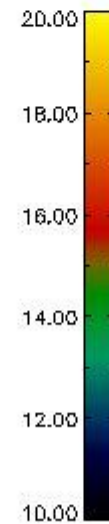
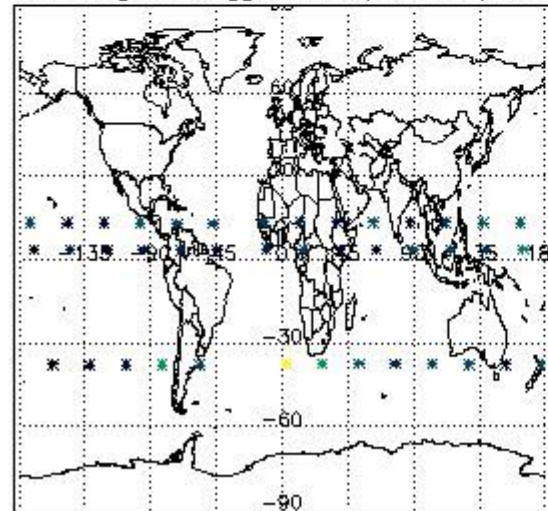
Percentage of flagged data per O3 profile



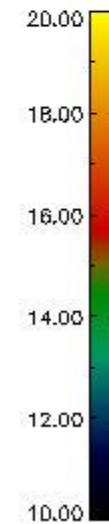
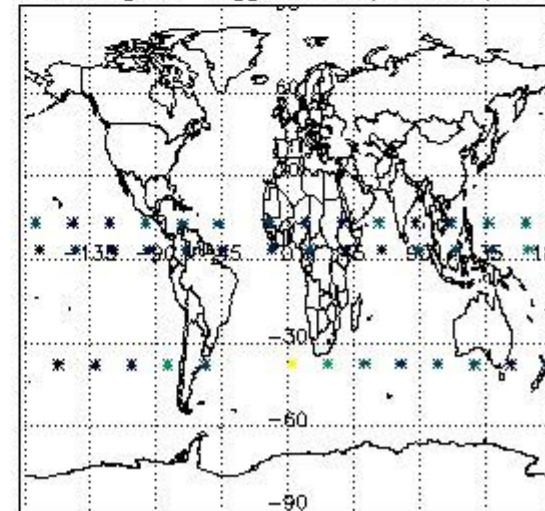
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

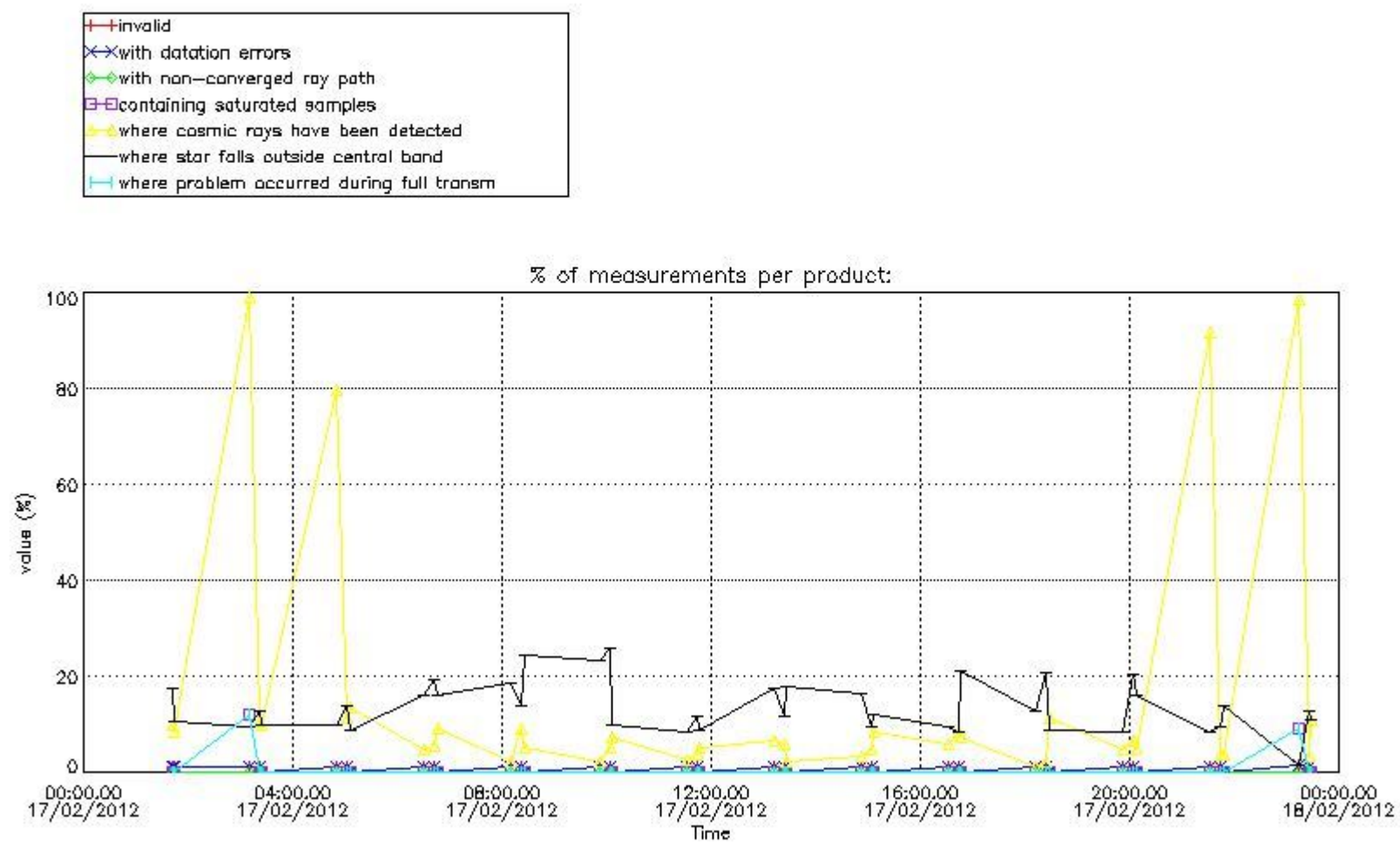


4. Level 1 quality information per product

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

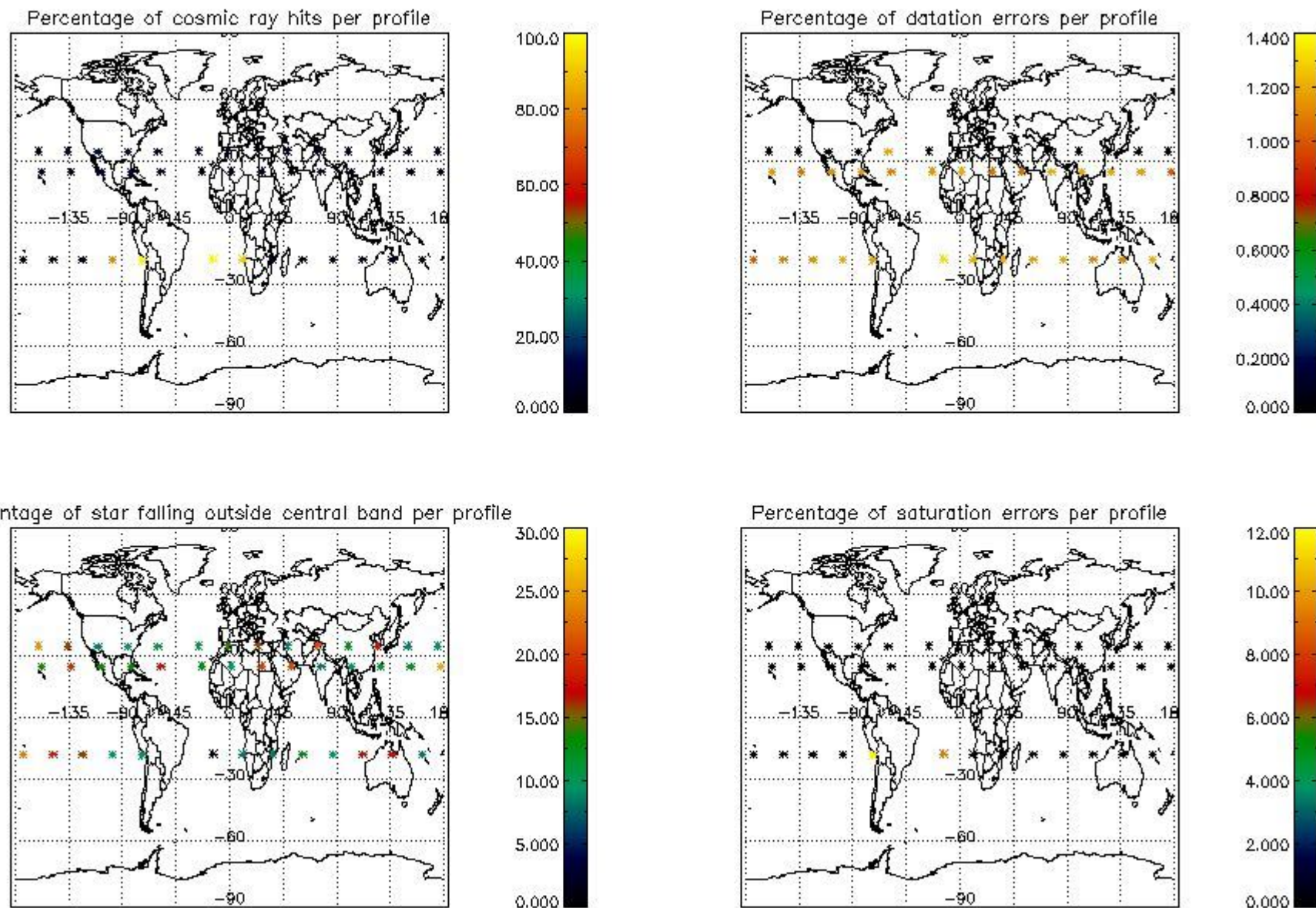


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

!Warning: No products without errors in descending found

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

!Warning: No products without errors in descending found

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:

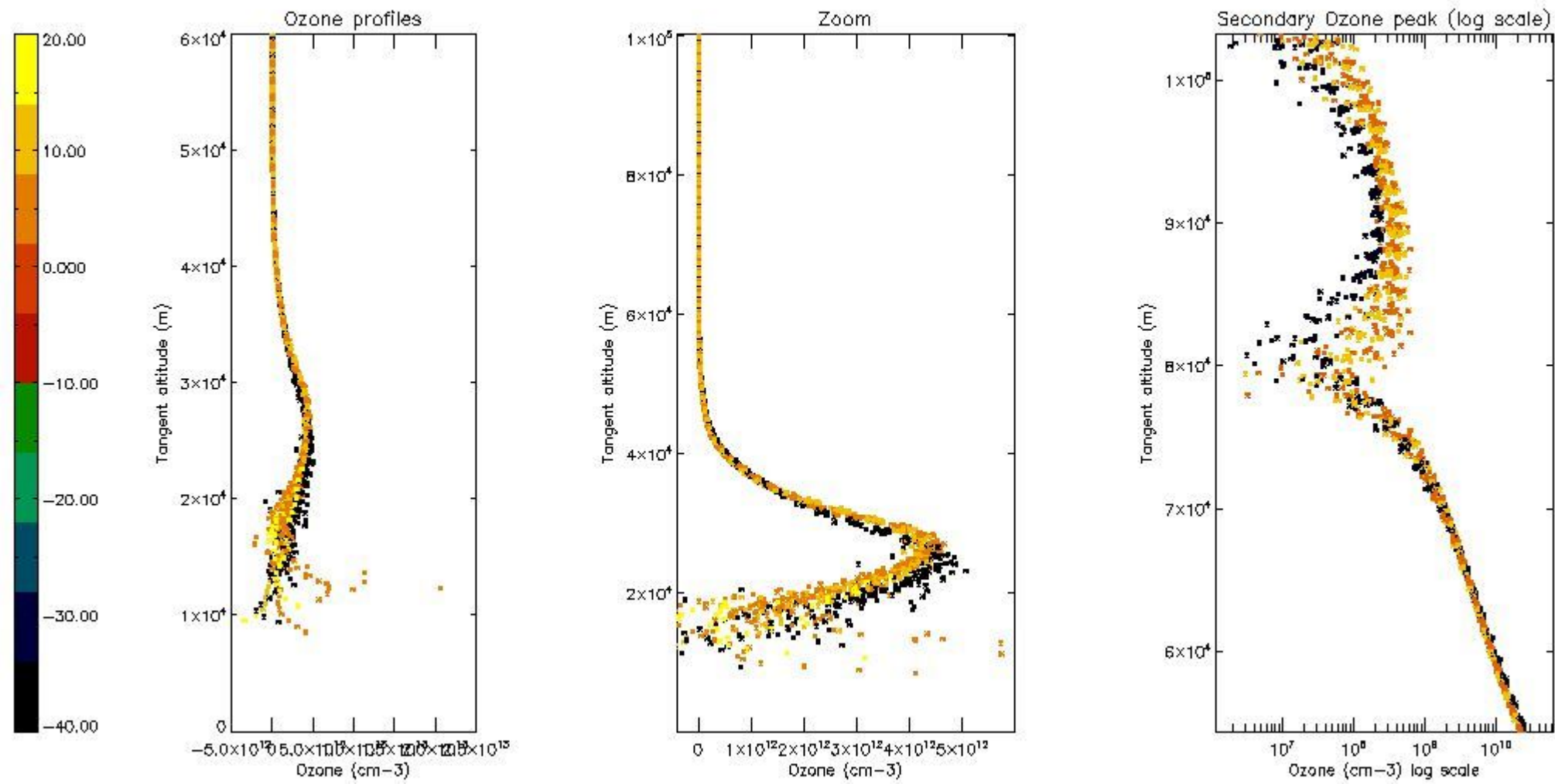
- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

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	100
STD < 20	73
STD < 10	65
STD < 5	55

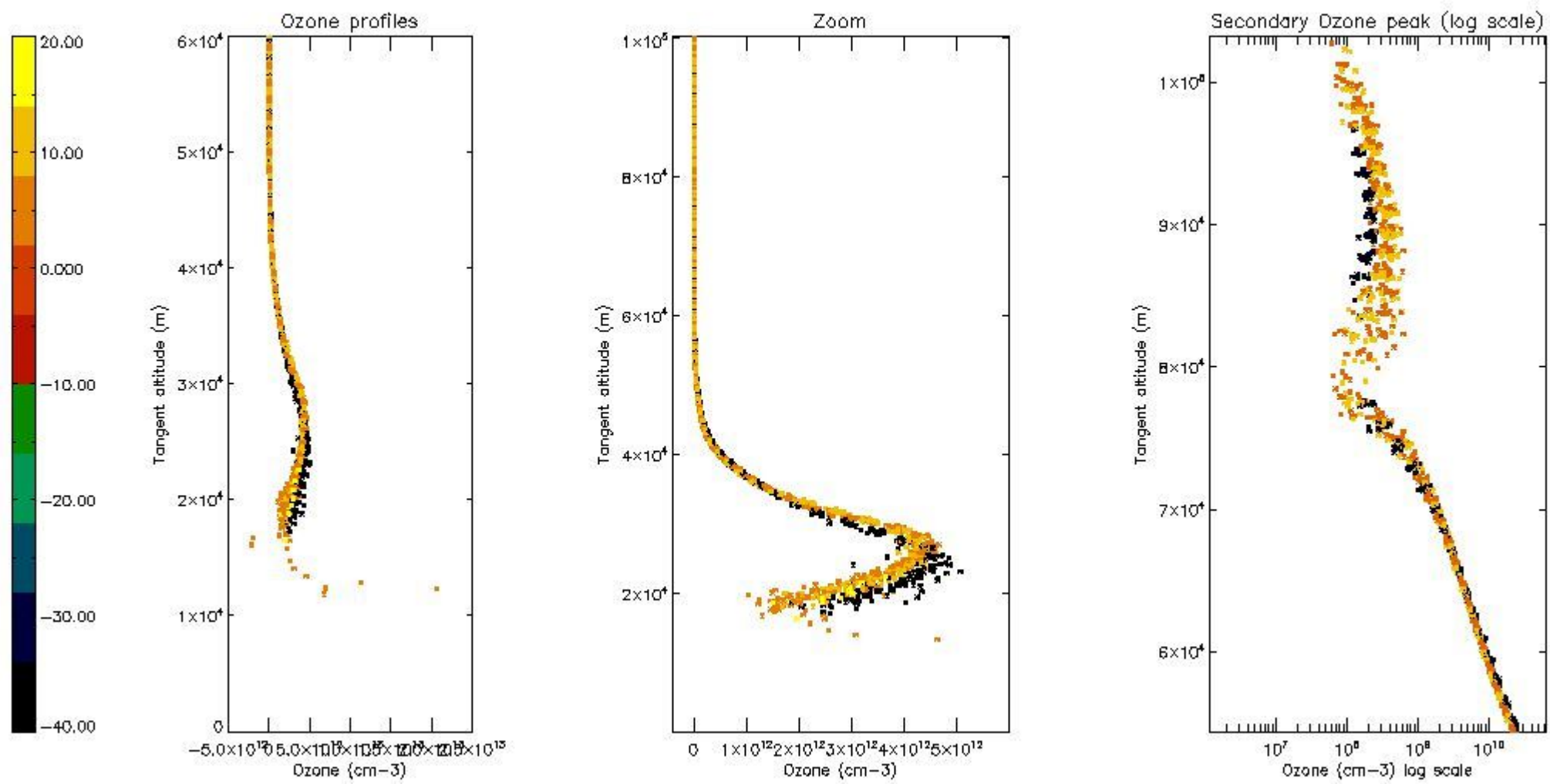
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



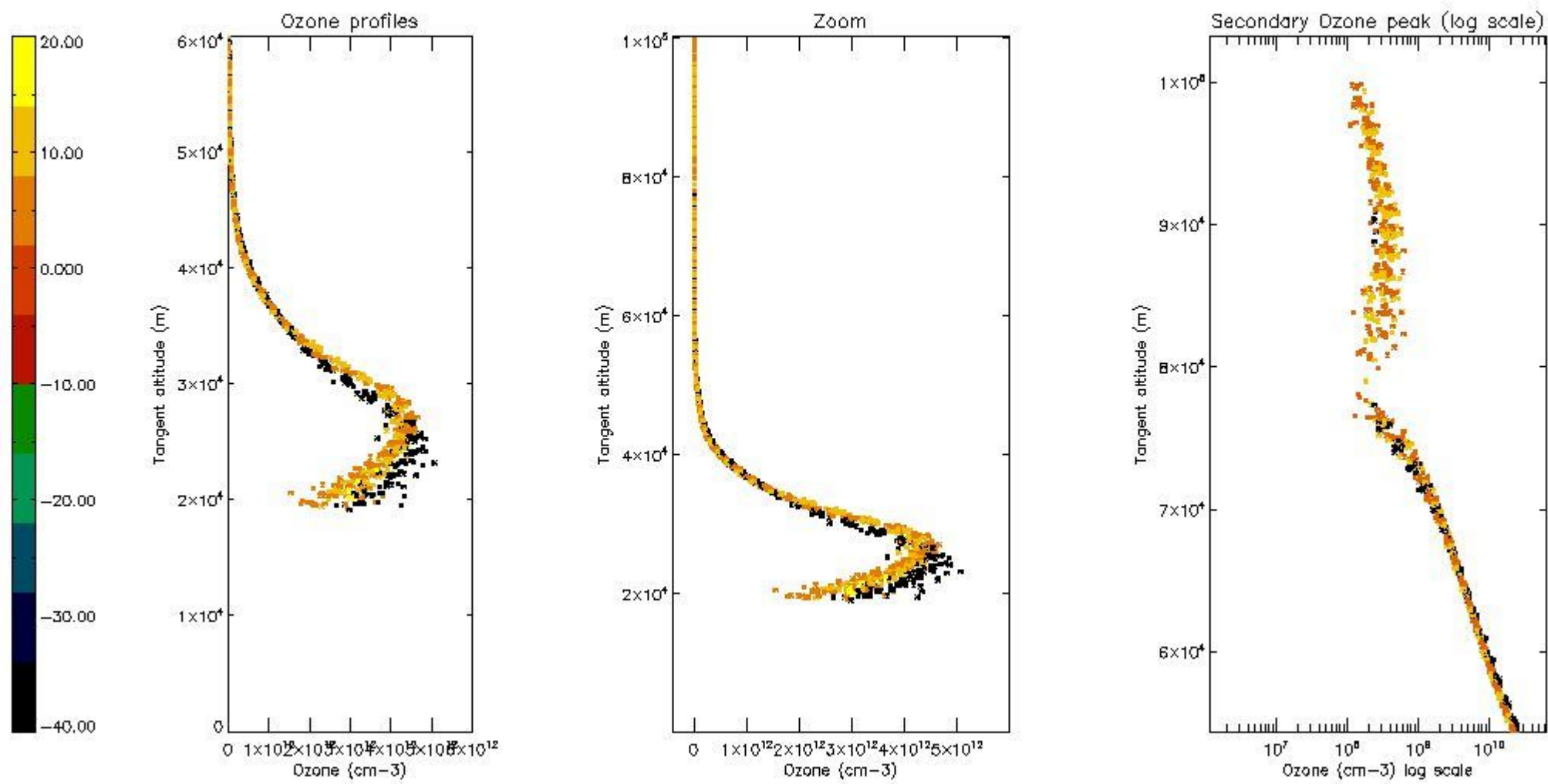
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



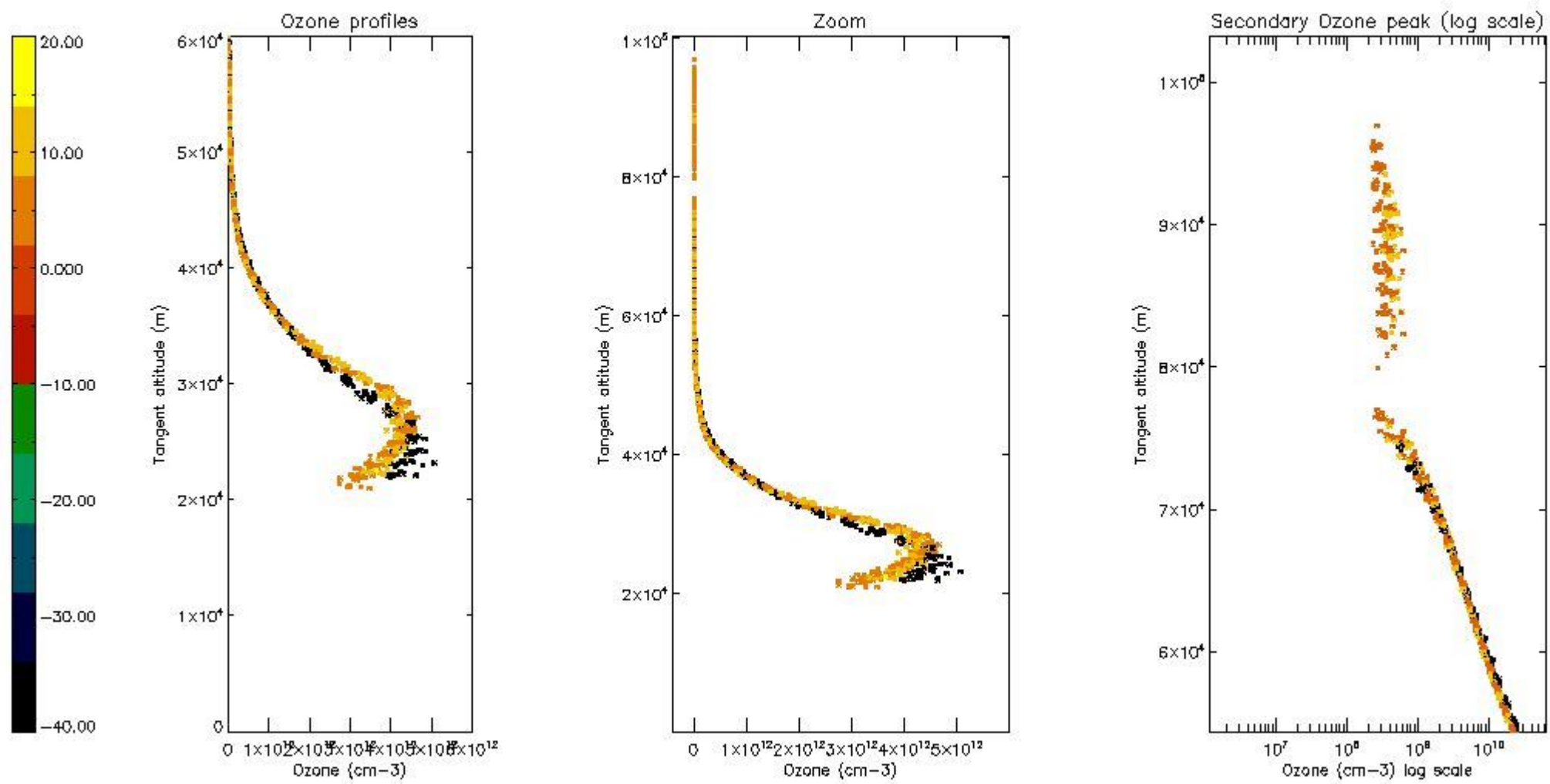
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



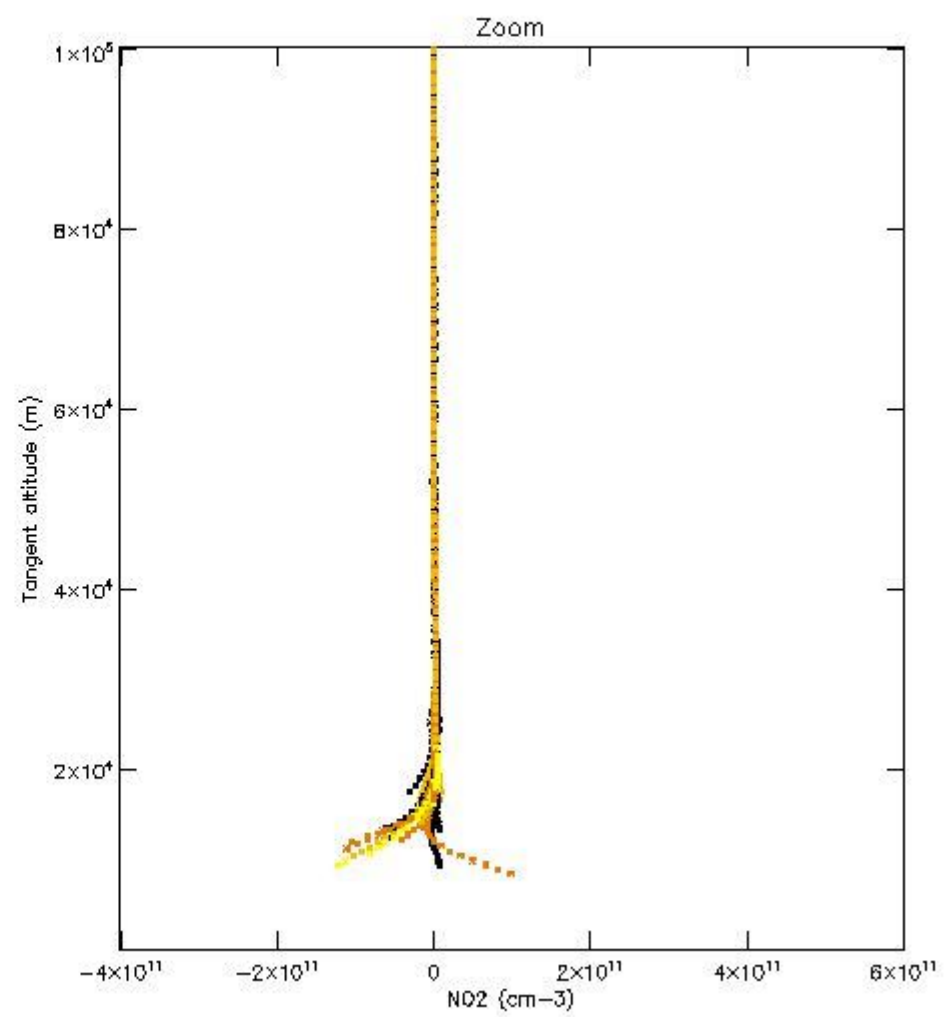
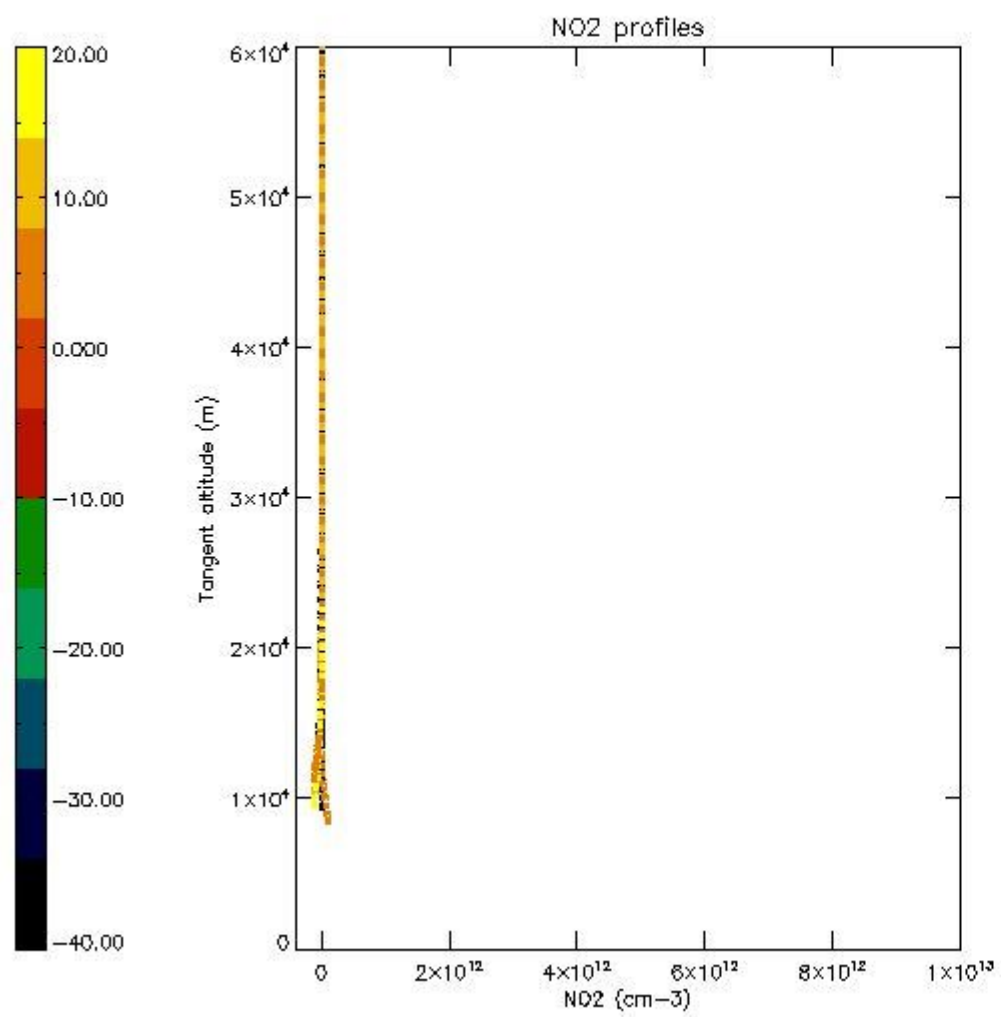
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



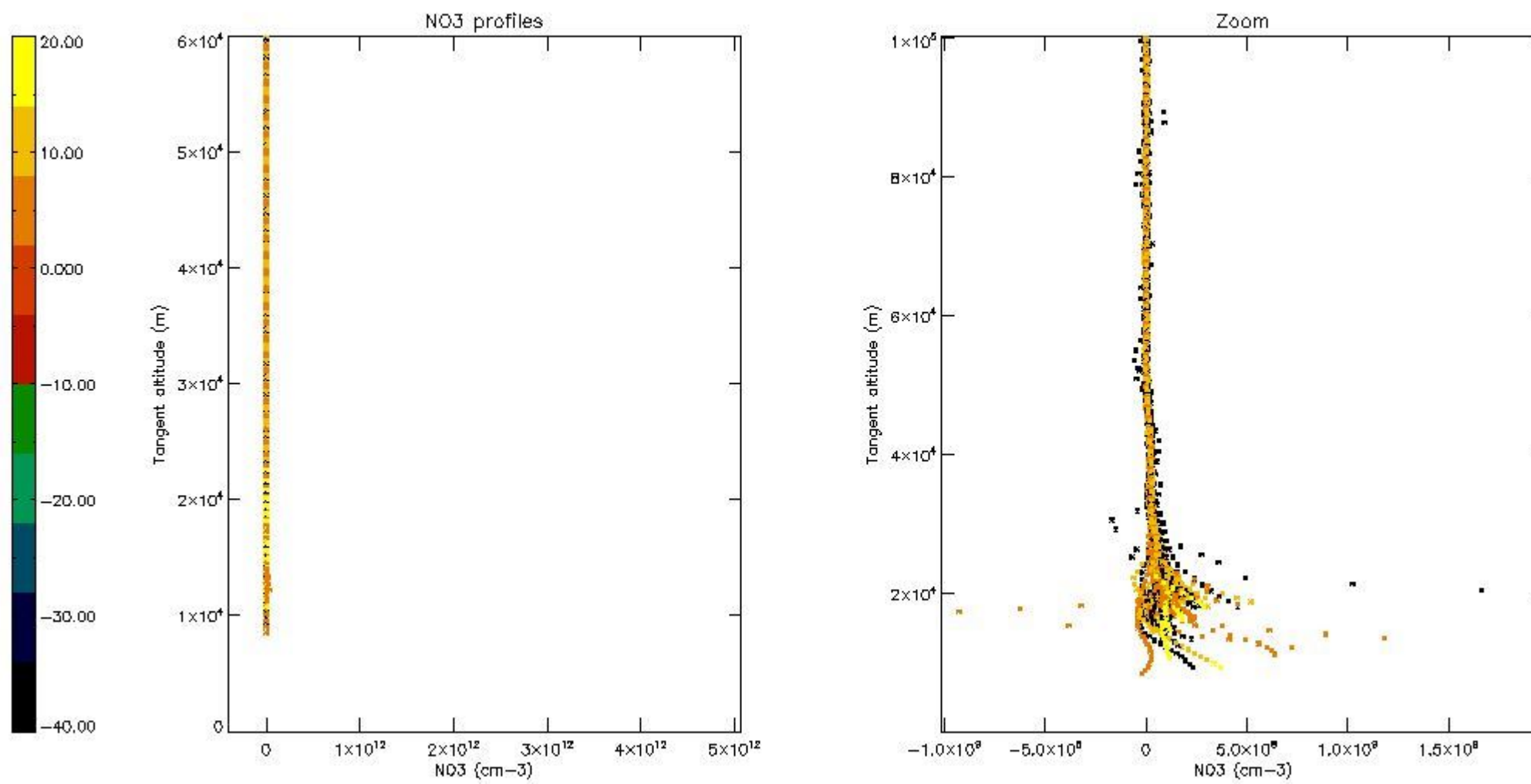
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	17-FEB-2012 01:41:52
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	17-FEB-2012 01:41:52
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	17-FEB-2012 01:41:52

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[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](#)

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[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](#)

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

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Time of report generation	18APR2013 14:06:44
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Store outputs in DB	Yes
Nb of level 2 prods	41
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

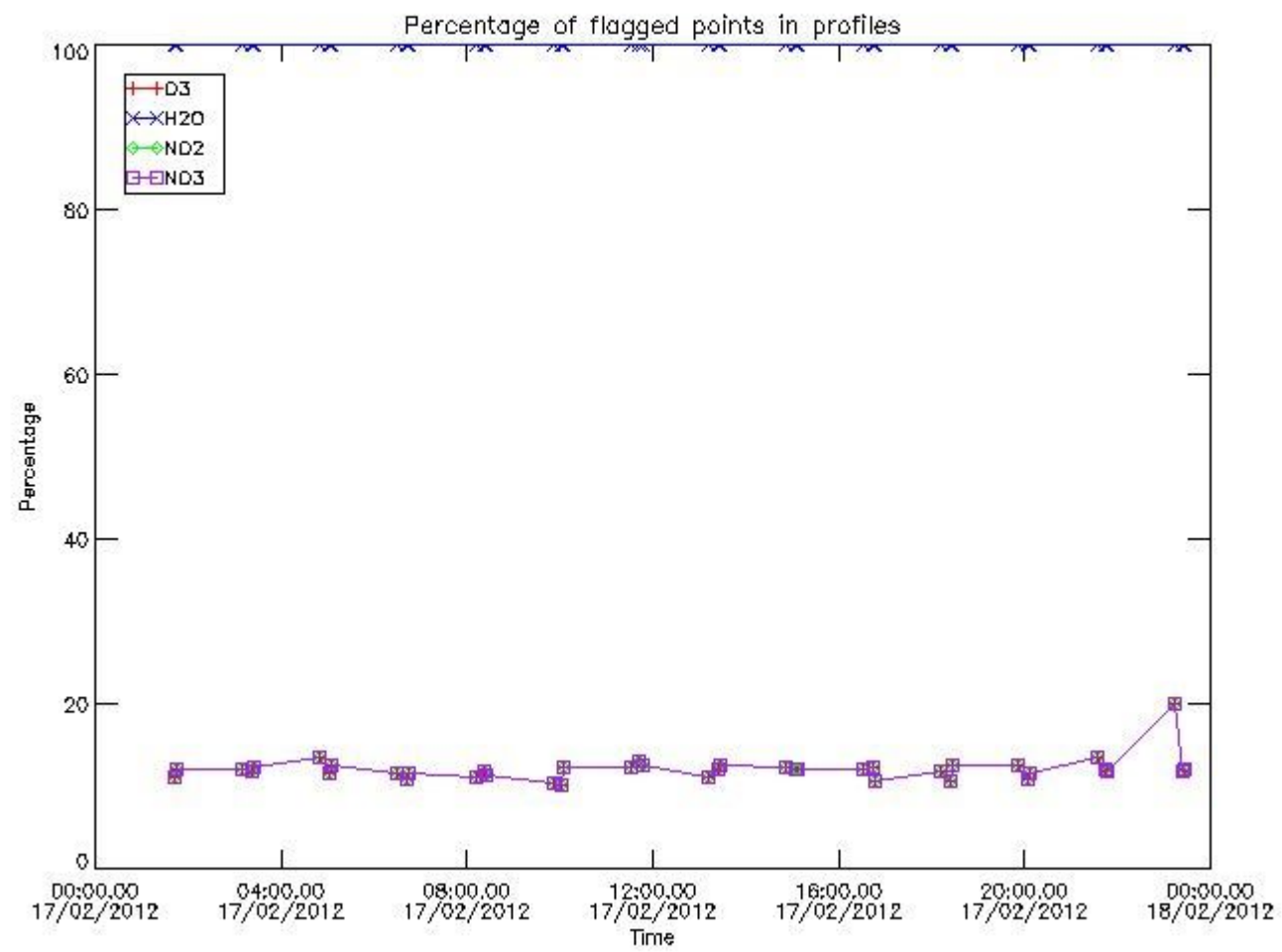
!Warning: No products without errors in BRIGHT limb conditions found

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20120217_014152_000000463111_00391_52129_3201.N1	17-FEB-2012 01:41:52	Dark	46.000	10	Bet Cen	0.61000	28000.	92	52129	No
2	GOM_NL__2PRFIN20120217_014439_000000423111_00391_52129_3202.N1	17-FEB-2012 01:44:39	Dark	42.000	20	Bet Cru	1.2530	30000.	84	52129	No
3	GOM_NL__2PRFIN20120217_031011_000000423111_00391_52129_3203.N1	17-FEB-2012 03:10:11	Dark	42.000	25	35Lam Sco	1.6200	28000.	84	52129	No
4	GOM_NL__2PRFIN20120217_032206_000000433111_00392_52130_3222.N1	17-FEB-2012 03:22:06	Dark	43.000	10	Bet Cen	0.61000	28000.	86	52130	No
5	GOM_NL__2PRFIN20120217_032454_000000413111_00392_52130_3223.N1	17-FEB-2012 03:24:54	Dark	41.000	20	Bet Cru	1.2530	30000.	82	52130	No
6	GOM_NL__2PRFIN20120217_045025_000000423111_00392_52130_3224.N1	17-FEB-2012 04:50:25	Dark	41.500	25	35Lam Sco	1.6200	28000.	83	52130	No
7	GOM_NL__2PRFIN20120217_050221_000000443111_00393_52131_3227.N1	17-FEB-2012 05:02:21	Dark	44.000	10	Bet Cen	0.61000	28000.	88	52131	No
8	GOM_NL__2PRFIN20120217_050508_000000413111_00393_52131_3228.N1	17-FEB-2012 05:05:08	Dark	40.500	20	Bet Cru	1.2530	30000.	81	52131	No
9	GOM_NL__2PRFIN20120217_063040_000000443111_00393_52131_3229.N1	17-FEB-2012 06:30:40	Dark	44.000	25	35Lam Sco	1.6200	28000.	88	52131	No
10	GOM_NL__2PRFIN20120217_064235_000000473111_00394_52132_3239.N1	17-FEB-2012 06:42:35	Dark	47.000	10	Bet Cen	0.61000	28000.	94	52132	No
11	GOM_NL__2PRFIN20120217_064523_000000443111_00394_52132_3240.N1	17-FEB-2012 06:45:23	Dark	44.000	20	Bet Cru	1.2530	30000.	88	52132	No
12	GOM_NL__2PRFIN20120217_081055_000000463111_00394_52132_3241.N1	17-FEB-2012 08:10:55	Dark	46.000	25	35Lam Sco	1.6200	28000.	92	52132	No
13	GOM_NL__2PRFIN20120217_082250_000000443111_00395_52133_3265.N1	17-FEB-2012 08:22:50	Dark	43.500	10	Bet Cen	0.61000	28000.	87	52133	No
14	GOM_NL__2PRFIN20120217_082537_000000493111_00395_52133_3266.N1	17-FEB-2012 08:25:37	Dark	49.000	20	Bet Cru	1.2530	30000.	98	52133	No
15	GOM_NL__2PRFIN20120217_095109_000000503111_00395_52133_3267.N1	17-FEB-2012 09:51:09	Dark	49.500	25	35Lam Sco	1.6200	28000.	99	52133	No
16	GOM_NL__2PRFIN20120217_100304_000000513111_00396_52134_3477.N1	17-FEB-2012 10:03:04	Dark	50.500	10	Bet Cen	0.61000	28000.	101	52134	No
17	GOM_NL__2PRFIN20120217_100552_000000413111_00396_52134_3478.N1	17-FEB-2012 10:05:52	Dark	41.000	20	Bet Cru	1.2530	30000.	82	52134	No
18	GOM_NL__2PRFIN20120217_113124_000000423111_00396_52134_3479.N1	17-FEB-2012 11:31:24	Dark	41.500	25	35Lam Sco	1.6200	28000.	83	52134	No
19	GOM_NL__2PRFIN20120217_114319_000000433111_00397_52135_3370.N1	17-FEB-2012 11:43:19	Dark	43.000	10	Bet Cen	0.61000	28000.	86	52135	No
20	GOM_NL__2PRFIN20120217_114606_000000403111_00397_52135_3371.N1	17-FEB-2012 11:46:06	Dark	40.000	20	Bet Cru	1.2530	30000.	80	52135	No
21	GOM_NL__2PRFIN20120217_131138_000000463111_00397_52135_3372.N1	17-FEB-2012 13:11:38	Dark	45.500	25	35Lam Sco	1.6200	28000.	91	52135	No
22	GOM_NL__2PRFIN20120217_132333_000000433111_00398_52136_3394.N1	17-FEB-2012 13:23:33	Dark	42.500	10	Bet Cen	0.61000	28000.	85	52136	No
23	GOM_NL__2PRFIN20120217_132621_000000453111_00398_52136_3395.N1	17-FEB-2012 13:26:21	Dark	44.500	20	Bet Cru	1.2530	30000.	89	52136	No
24	GOM_NL__2PRFIN20120217_145153_000000463111_00398_52136_3396.N1	17-FEB-2012 14:51:53	Dark	45.500	25	35Lam Sco	1.6200	28000.	91	52136	No
25	GOM_NL__2PRFIN20120217_150348_000000423111_00399_52137_3429.N1	17-FEB-2012 15:03:48	Dark	42.000	10	Bet Cen	0.61000	28000.	84	52137	No
26	GOM_NL__2PRFIN20120217_150635_000000423111_00399_52137_3430.N1	17-FEB-2012 15:06:35	Dark	42.000	20	Bet Cru	1.2530	30000.	84	52137	No
27	GOM_NL__2PRFIN20120217_163207_000000423111_00399_52137_3431.N1	17-FEB-2012 16:32:07	Dark	42.000	25	35Lam Sco	1.6200	28000.	84	52137	No
28	GOM_NL__2PRFIN20120217_164402_000000423111_00400_52138_3465.N1	17-FEB-2012 16:44:02	Dark	41.500	10	Bet Cen	0.61000	28000.	83	52138	No
29	GOM_NL__2PRFIN20120217_164650_000000483111_00400_52138_3466.N1	17-FEB-2012 16:46:50	Dark	47.500	20	Bet Cru	1.2530	30000.	95	52138	No
30	GOM_NL__2PRFIN20120217_181222_000000433111_00400_52138_3467.N1	17-FEB-2012 18:12:22	Dark	43.000	25	35Lam Sco	1.6200	28000.	86	52138	No
31	GOM_NL__2PRFIN20120217_182417_000000483111_00401_52139_3550.N1	17-FEB-2012 18:24:17	Dark	48.000	10	Bet Cen	0.61000	28000.	96	52139	No
32	GOM_NL__2PRFIN20120217_182704_000000413111_00401_52139_3551.N1	17-FEB-2012 18:27:04	Dark	40.500	20	Bet Cru	1.2530	30000.	81	52139	No
33	GOM_NL__2PRFIN20120217_195237_000000413111_00401_52139_3552.N1	17-FEB-2012 19:52:37	Dark	41.000	25	35Lam Sco	1.6200	28000.	82	52139	No
34	GOM_NL__2PRFIN20120217_200432_000000473111_00402_52140_3536.N1	17-FEB-2012 20:04:32	Dark	47.000	10	Bet Cen	0.61000	28000.	94	52140	No
35	GOM_NL__2PRFIN20120217_200719_000000443111_00402_52140_3537.N1	17-FEB-2012 20:07:19	Dark	44.000	20	Bet Cru	1.2530	30000.	88	52140	No
36	GOM_NL__2PRFIN20120217_213251_000000423111_00402_52140_3538.N1	17-FEB-2012 21:32:51	Dark	41.500	25	35Lam Sco	1.6200	28000.	83	52140	No
37	GOM_NL__2PRFIN20120217_214446_000000423111_00403_52141_3552.N1	17-FEB-2012 21:44:46	Dark	42.000	10	Bet Cen	0.61000	28000.	84	52141	No
38	GOM_NL__2PRFIN20120217_214733_000000433111_00403_52141_3553.N1	17-FEB-2012 21:47:33	Dark	43.000	20	Bet Cru	1.2530	30000.	86	52141	No
39	GOM_NL__2PRFIN20120217_231306_000000383111_00403_52141_3554.N1	17-FEB-2012 23:13:06	Dark	38.000	25	35Lam Sco	1.6200	28000.	76	52141	No
40	GOM_NL__2PRFIN20120217_232501_000000443111_00404_52142_3566.N1	17-FEB-2012 23:25:01	Dark	43.500	10	Bet Cen	0.61000	28000.	87	52142	No
41	GOM_NL__2PRFIN20120217_232748_000000423111_00404_52142_3567.N1	17-FEB-2012 23:27:48	Dark	41.500	20	Bet Cru	1.2530	30000.	83	52142	No

3. Quality information per product

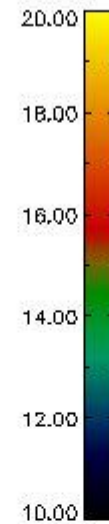
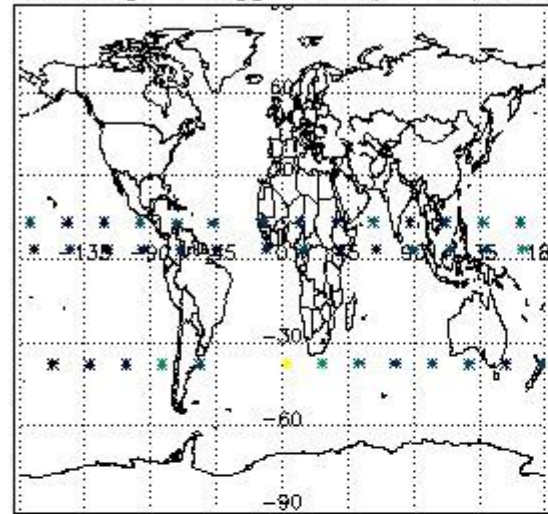
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

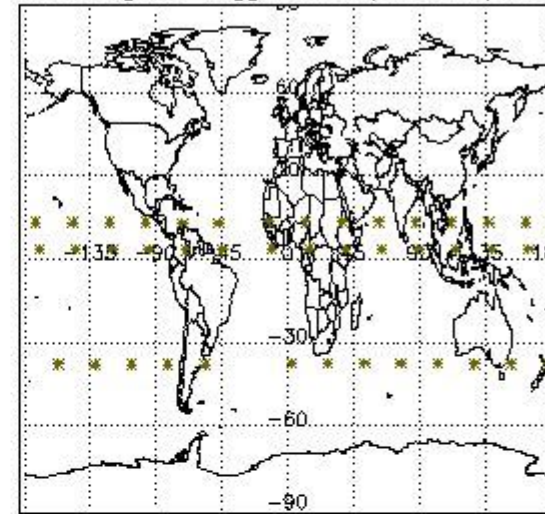


3.2 Plot quality information per product (world map)

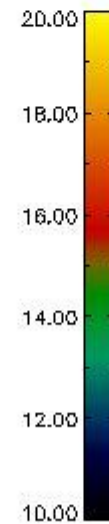
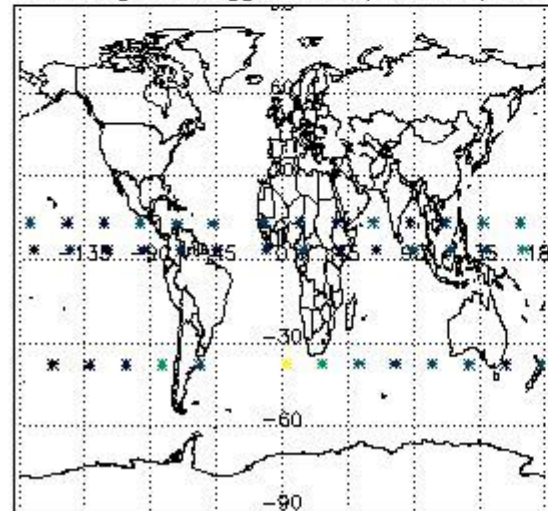
Percentage of flagged data per O3 profile



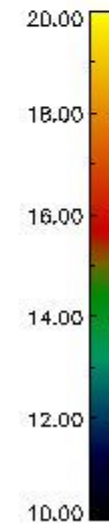
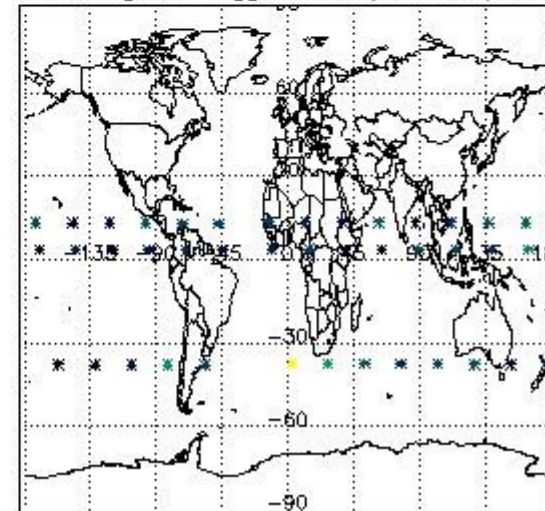
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

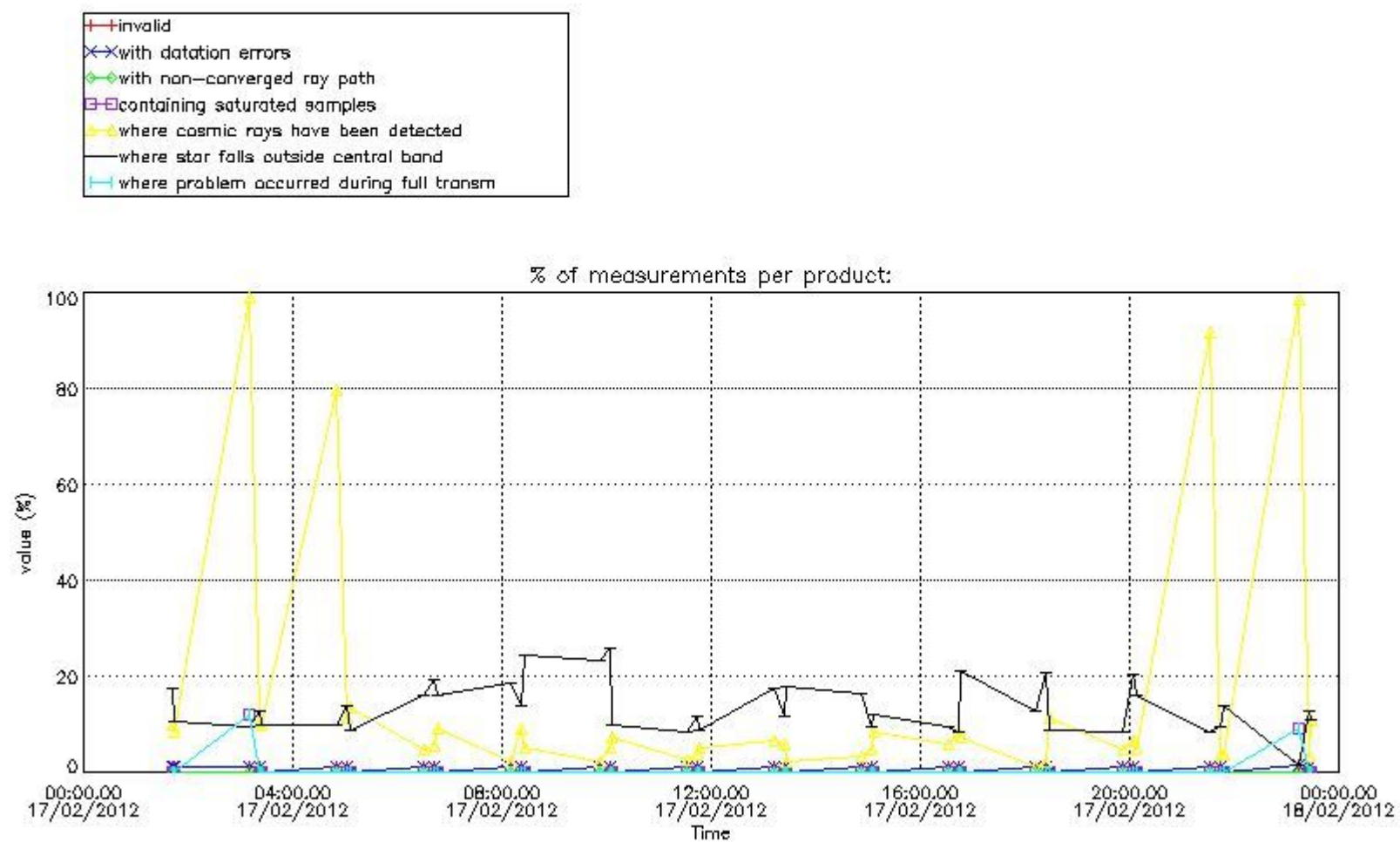


4. Level 1 quality information per product

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

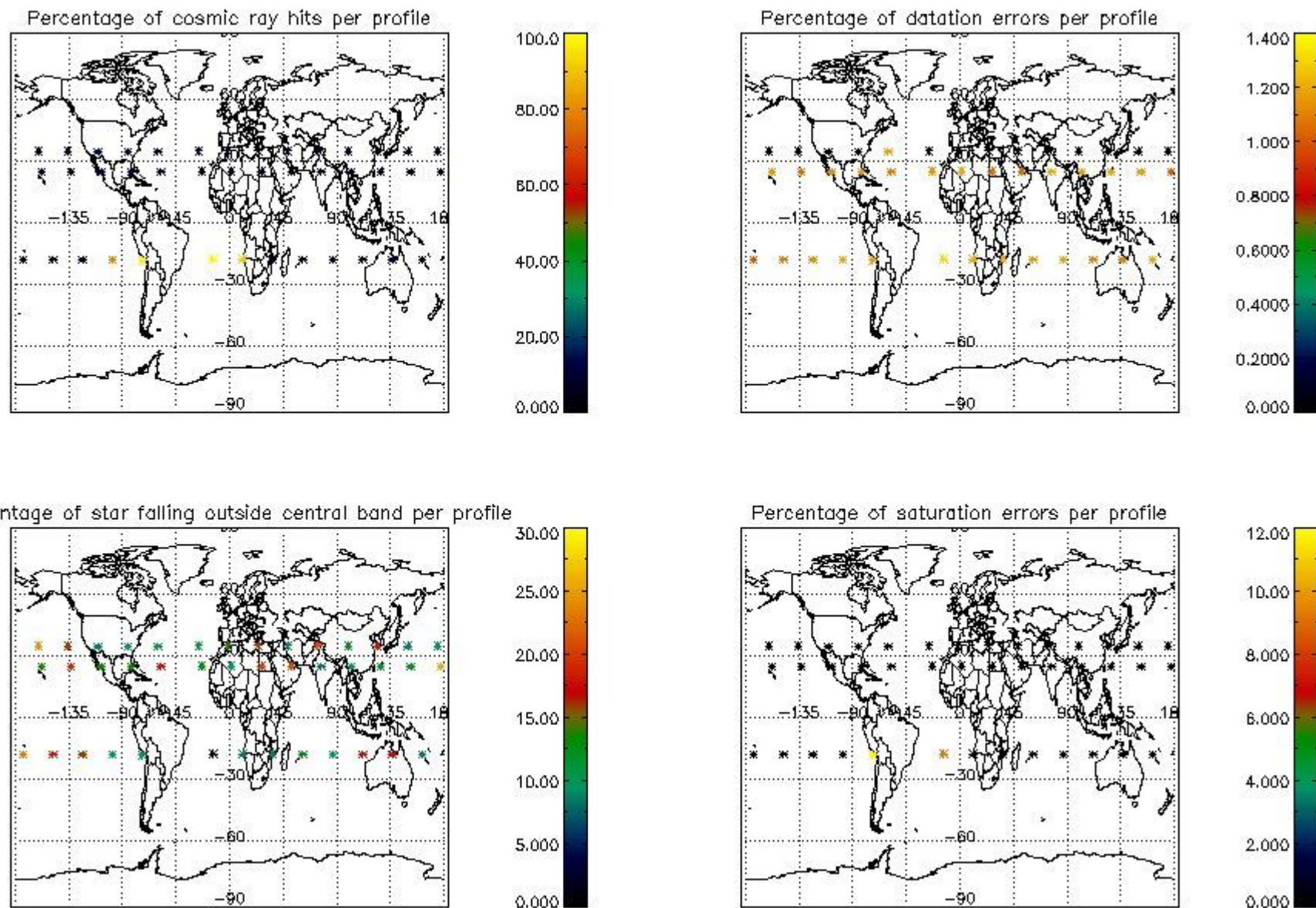


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

!Warning: No products without errors in descending found

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

!Warning: No products without errors in descending found

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:

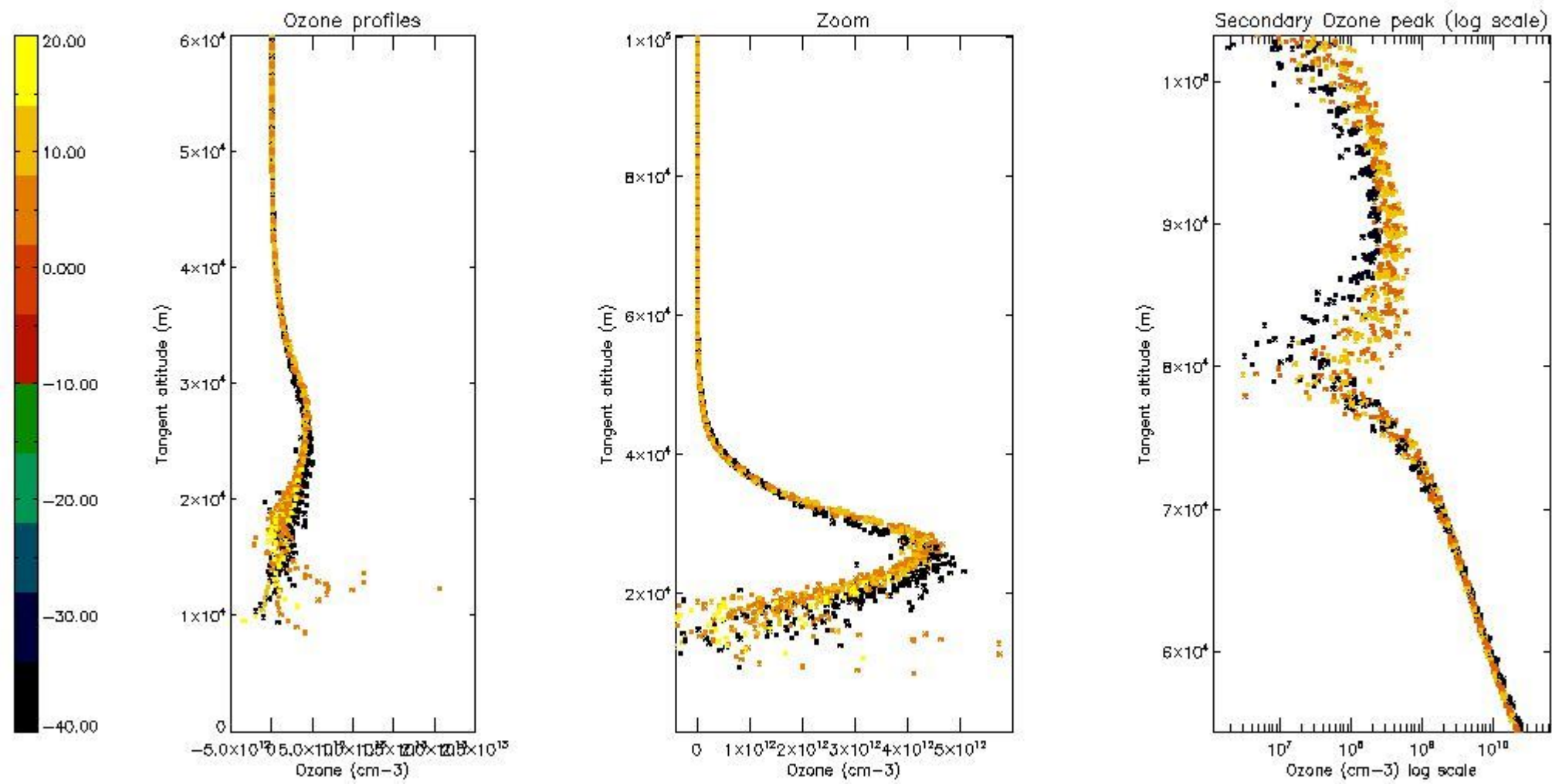
- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

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	100
STD < 20	73
STD < 10	65
STD < 5	55

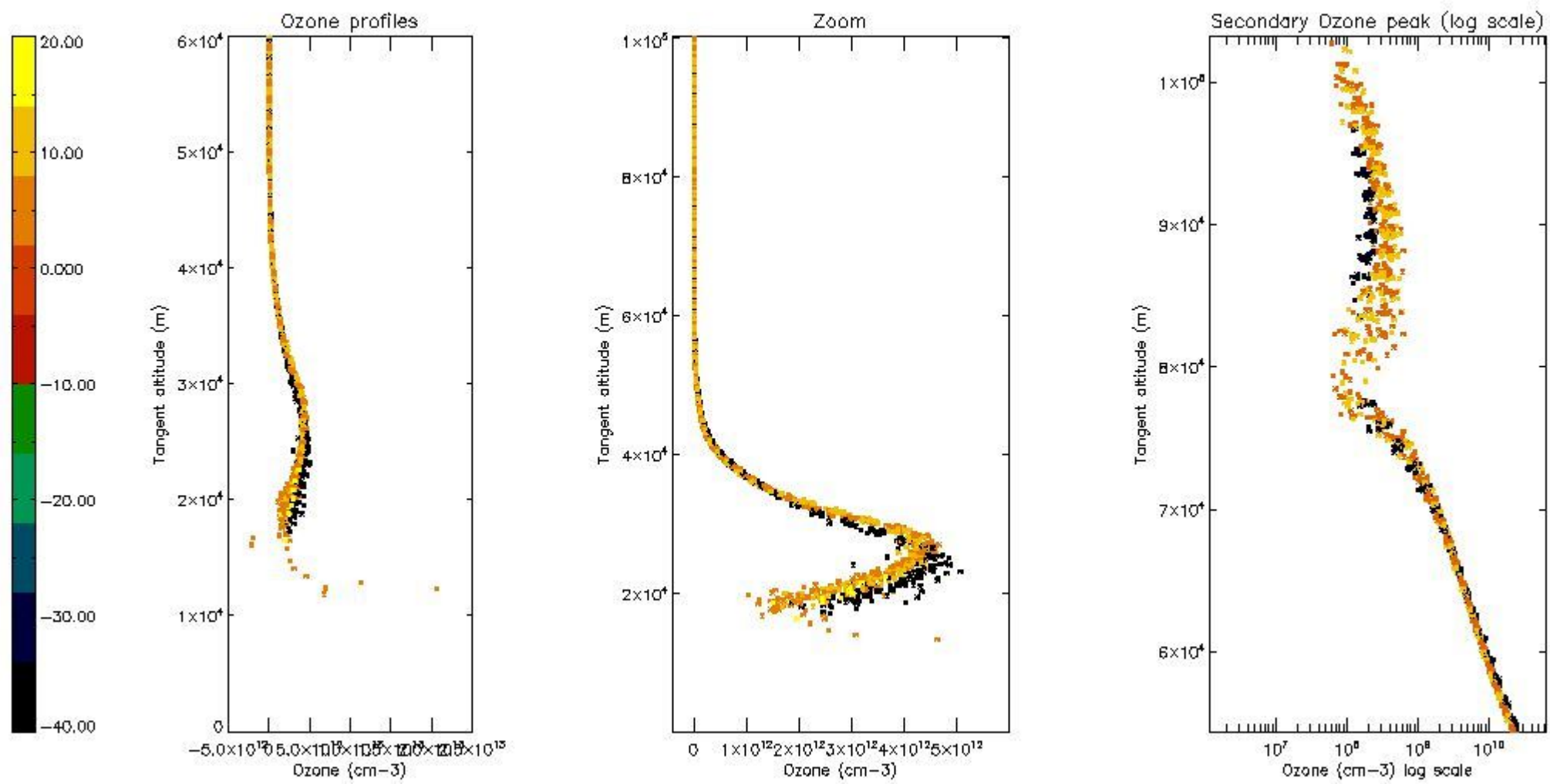
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



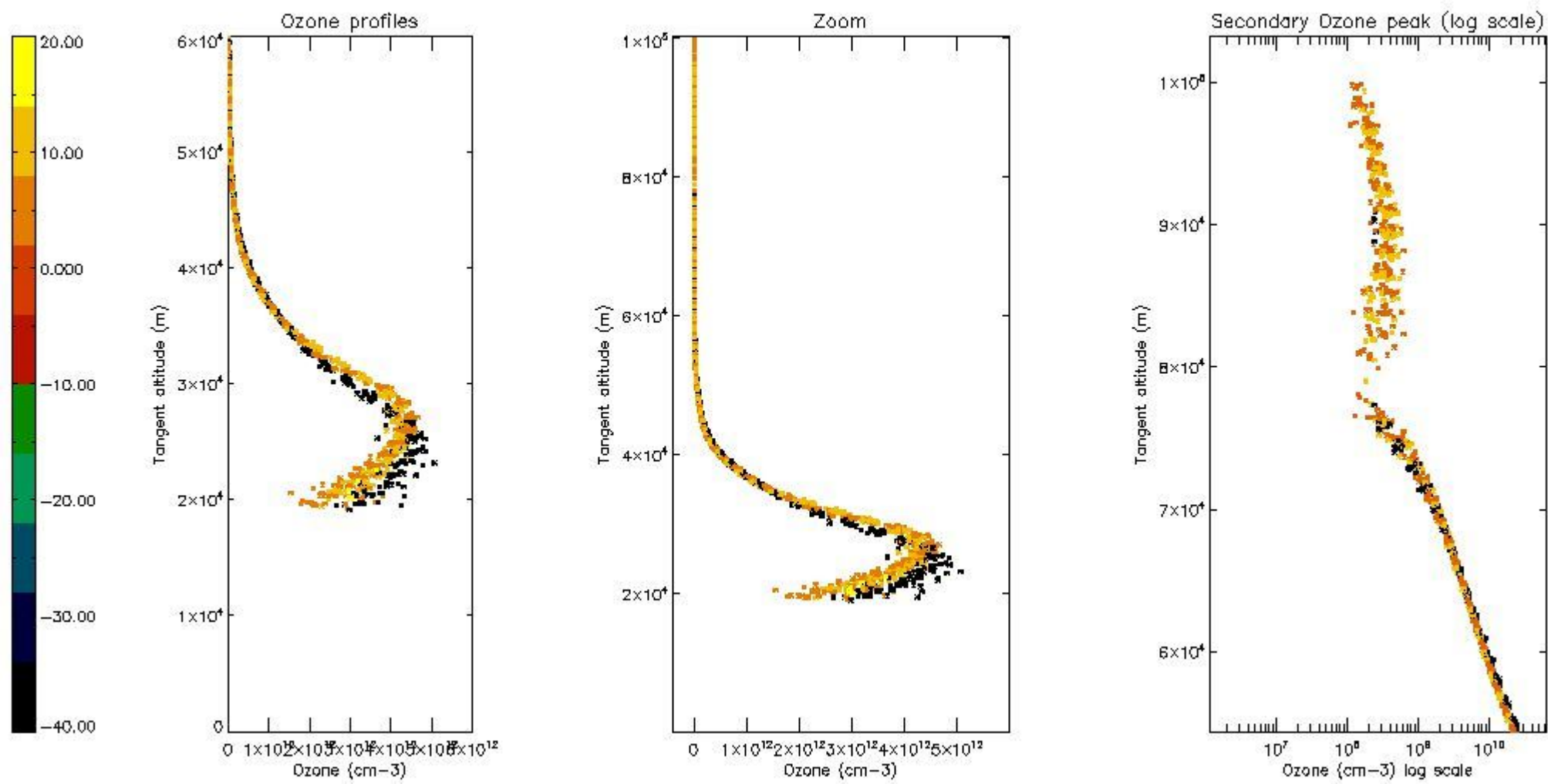
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



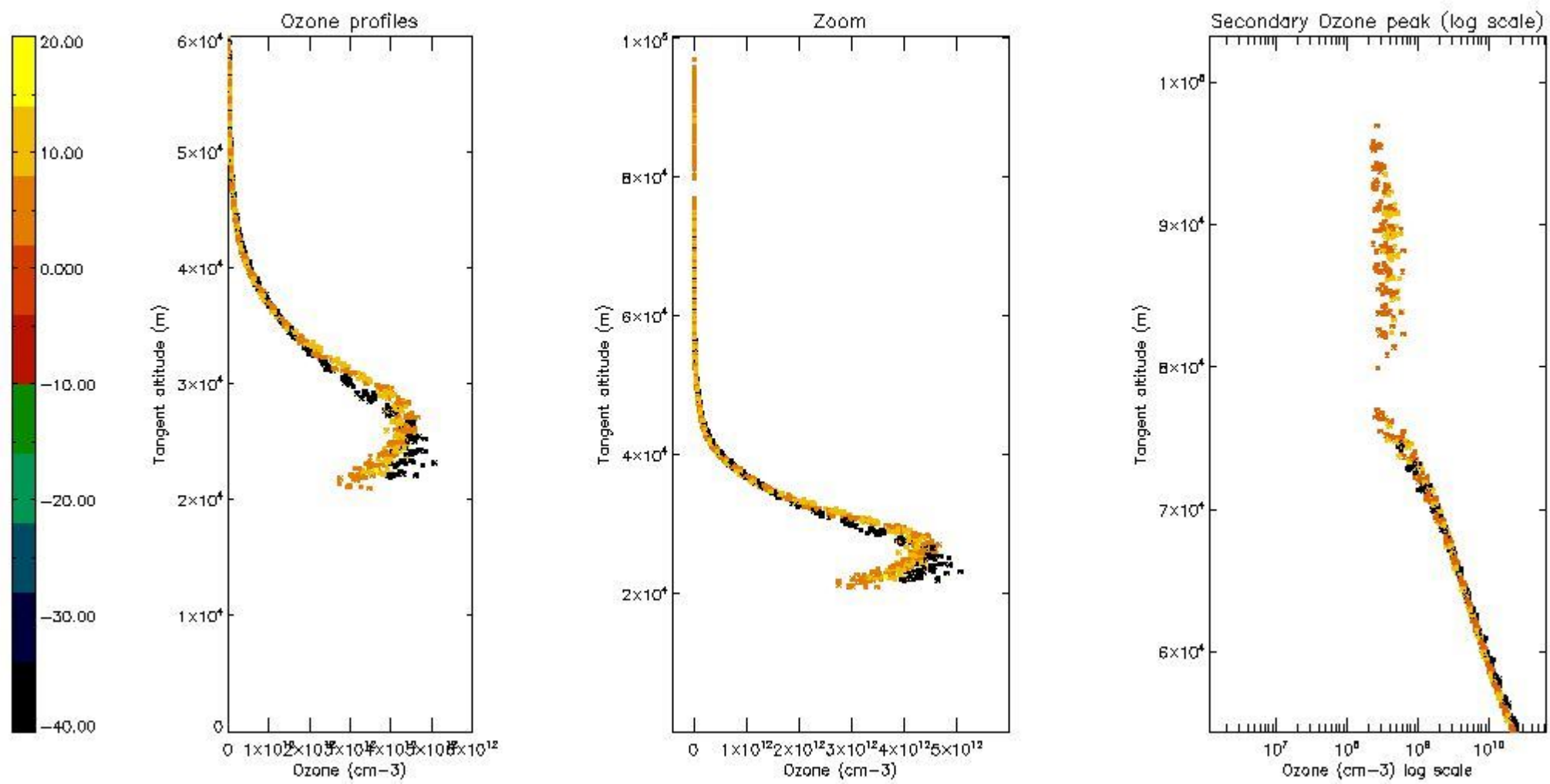
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



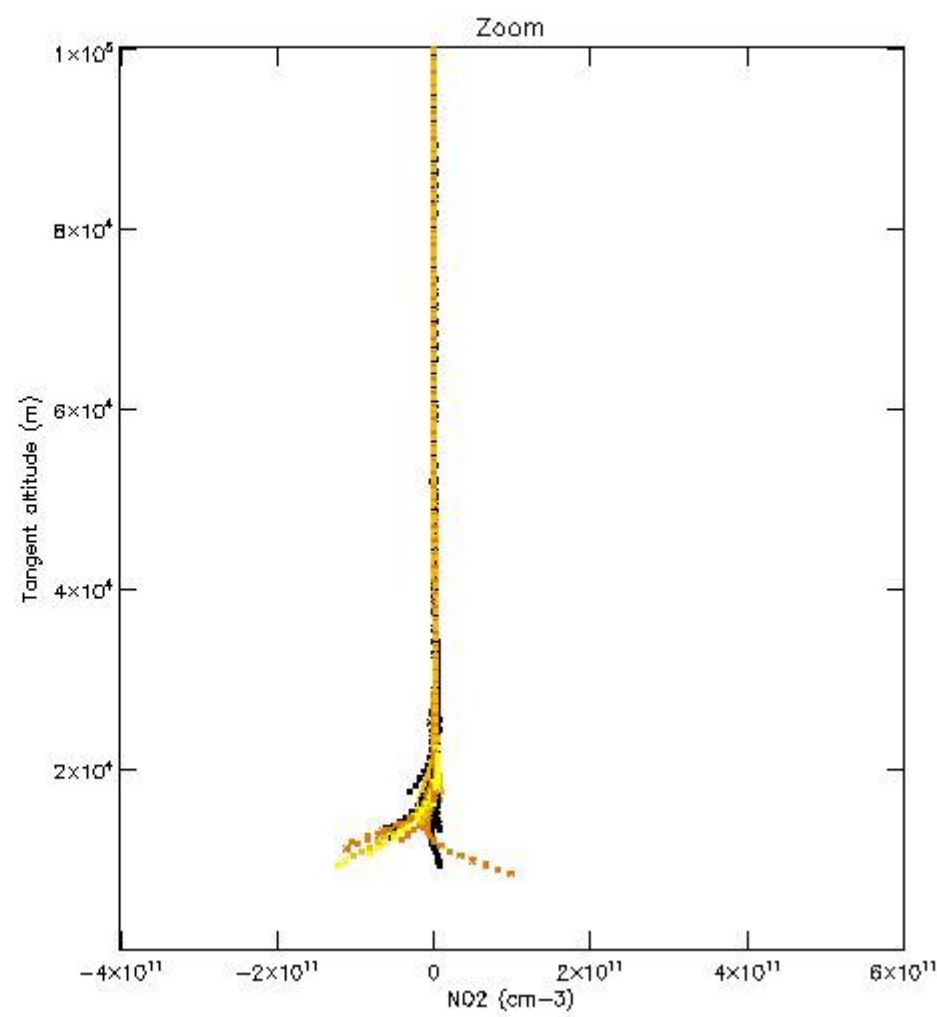
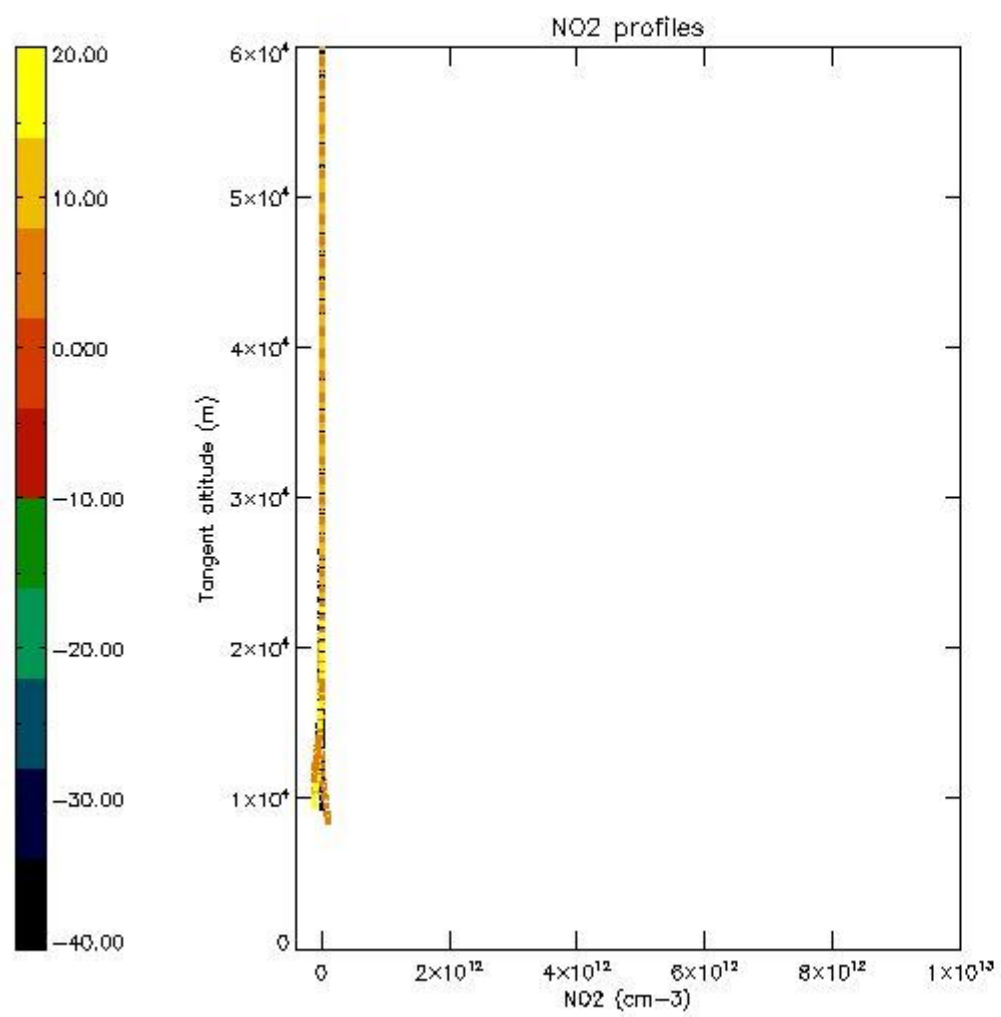
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



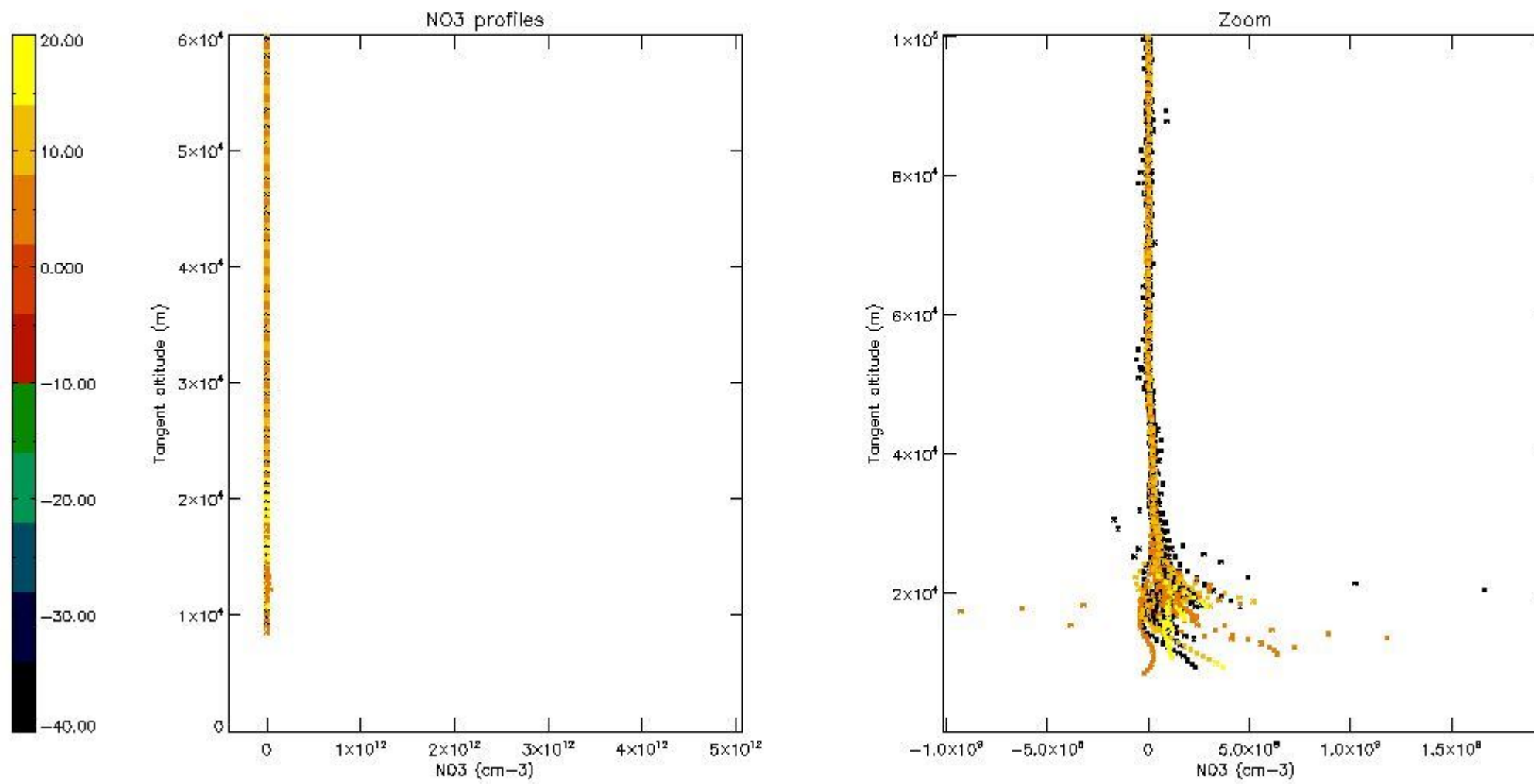
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

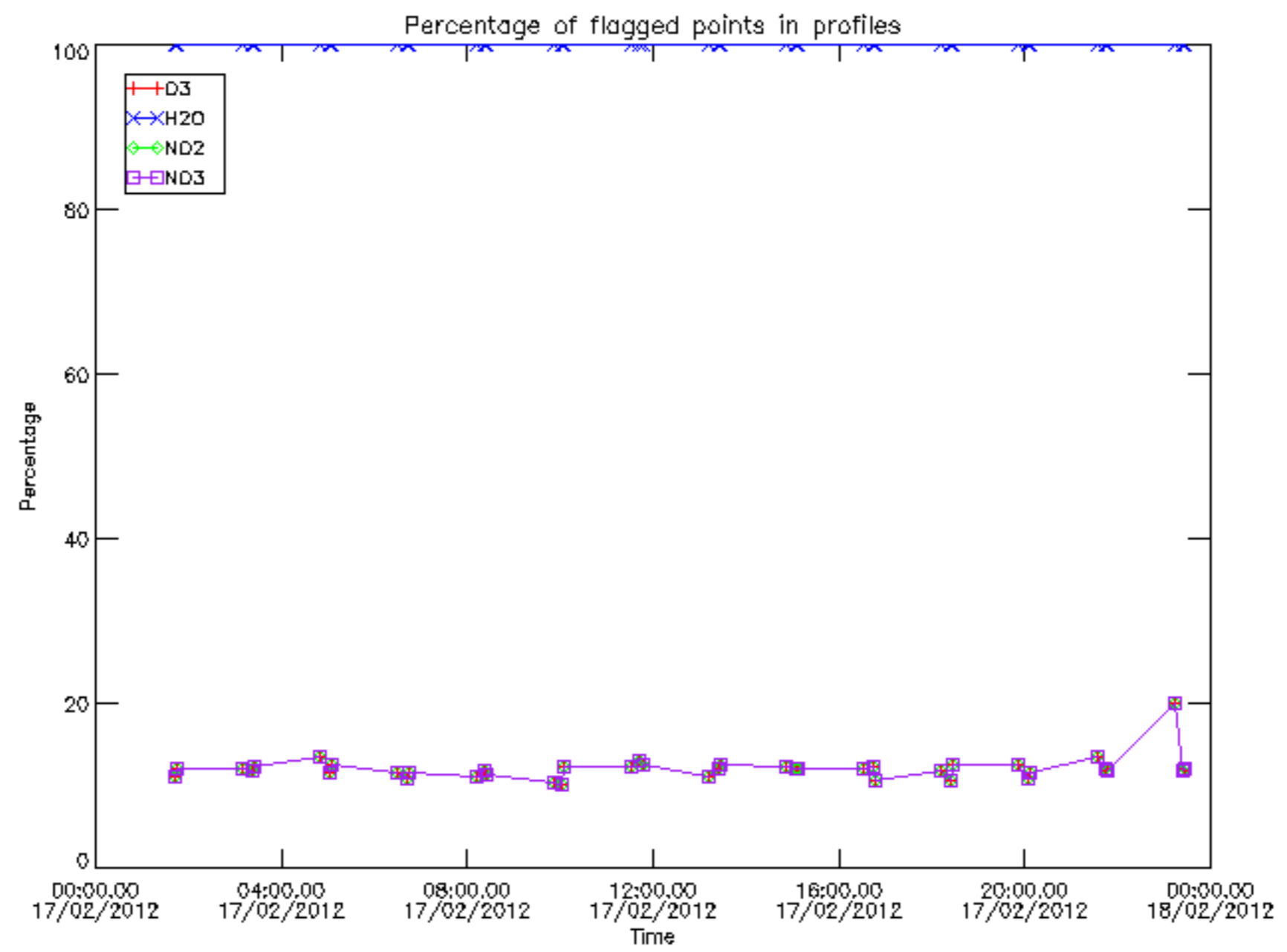
The colorbar represents the latitude.



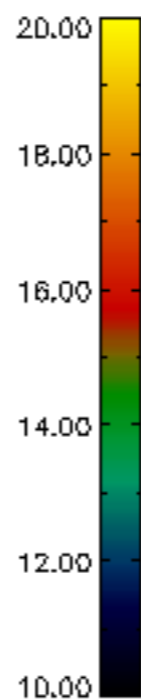
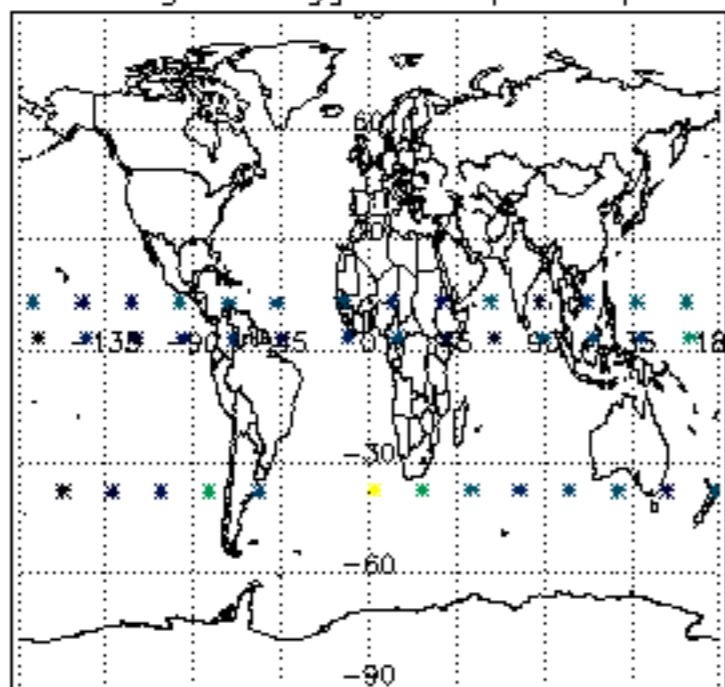
6. Auxiliary Data Files used for the production reported in section 2

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.

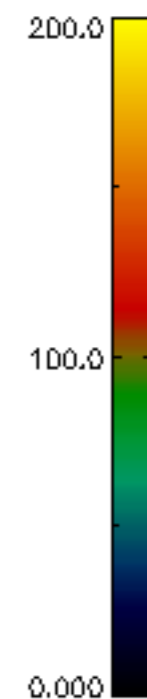
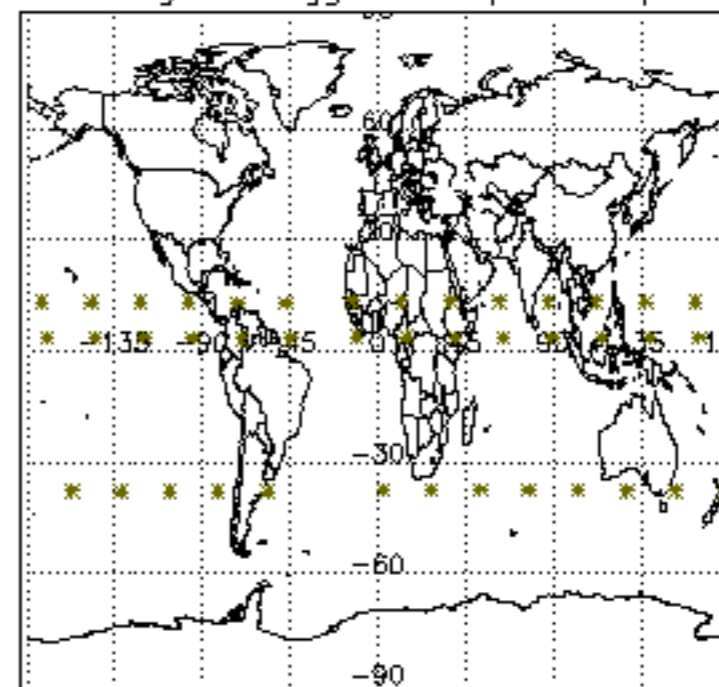
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	17-FEB-2012 01:41:52
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	17-FEB-2012 01:41:52
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	17-FEB-2012 01:41:52



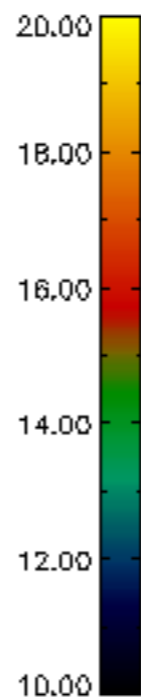
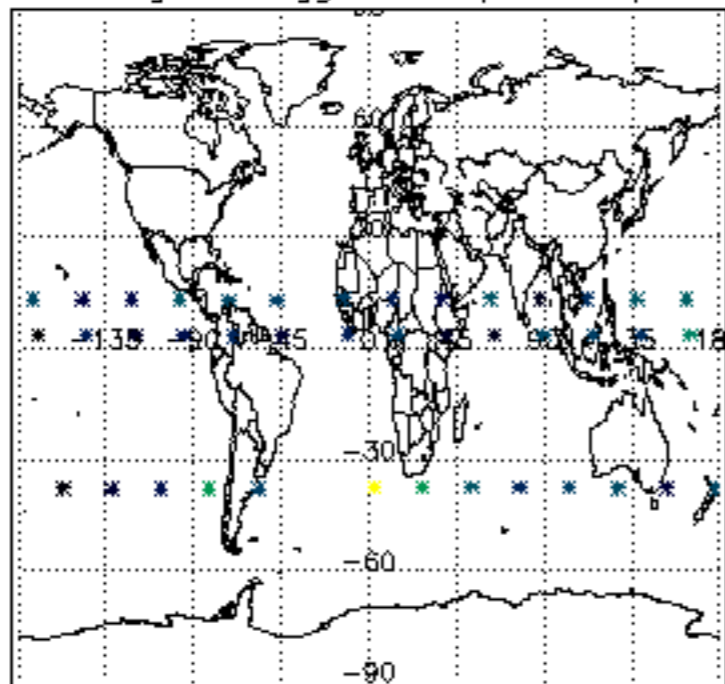
Percentage of flagged data per D3 profile



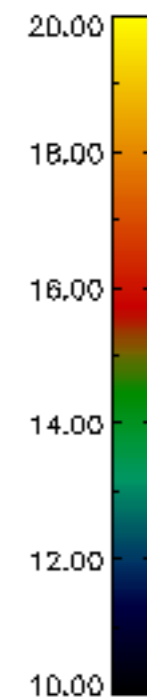
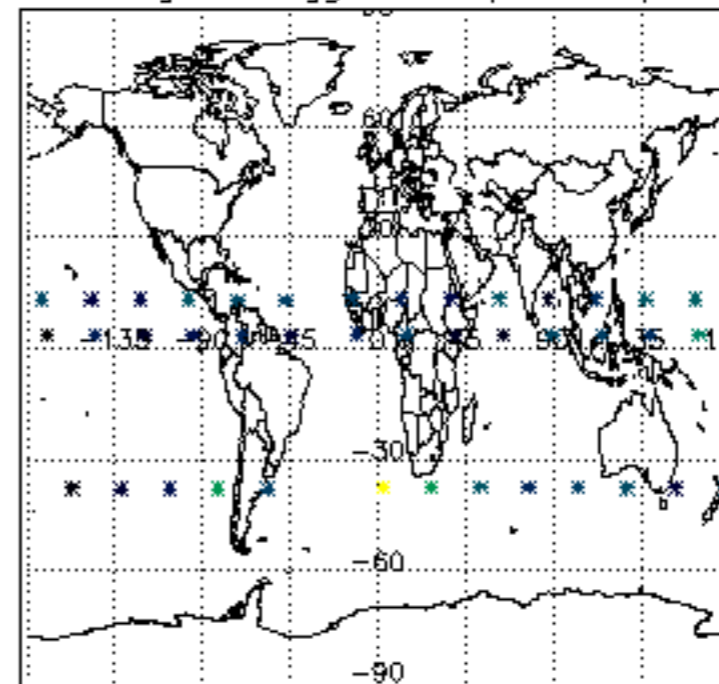
Percentage of flagged data per H2O profile

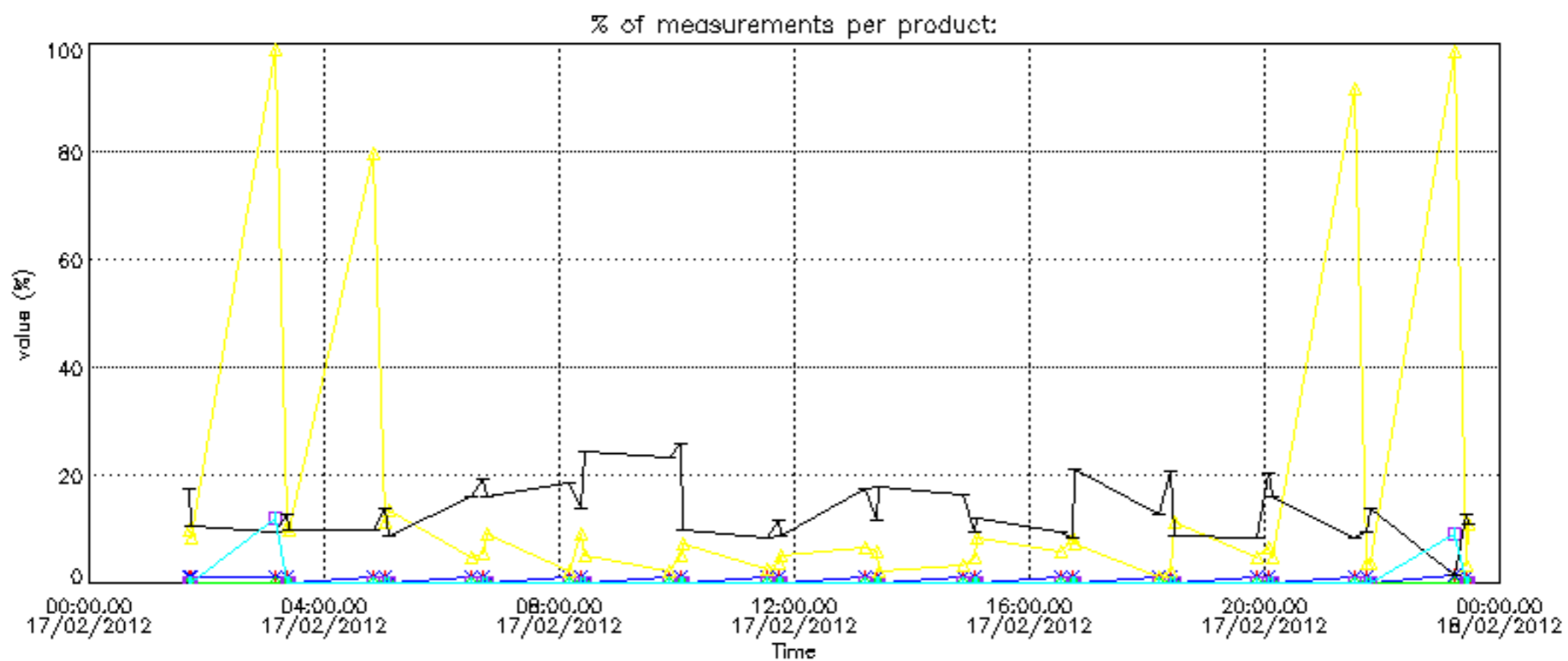


Percentage of flagged data per NO2 profile

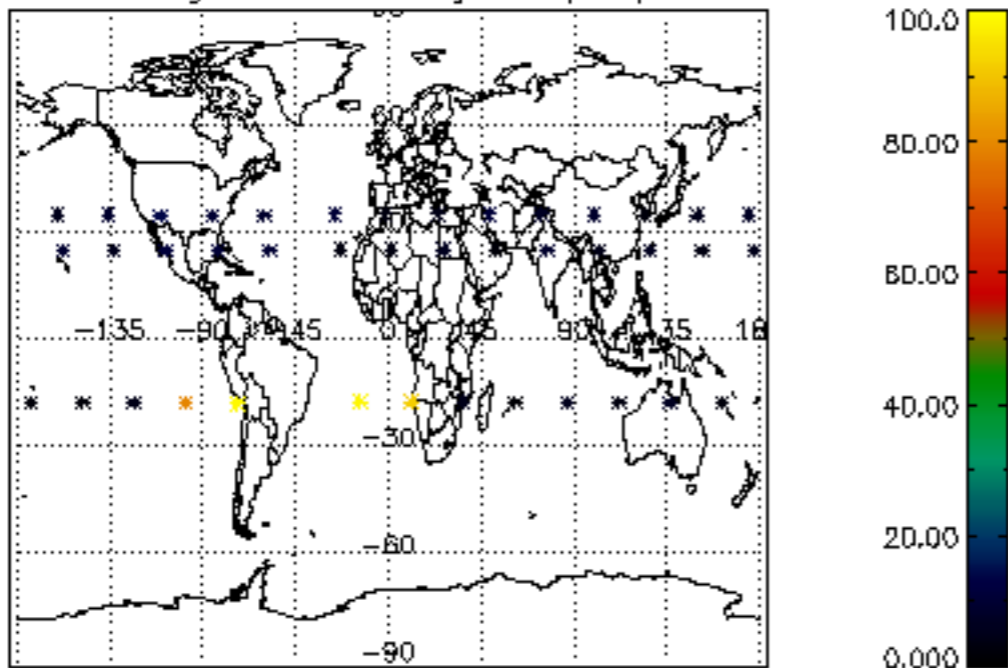


Percentage of flagged data per NO3 profile

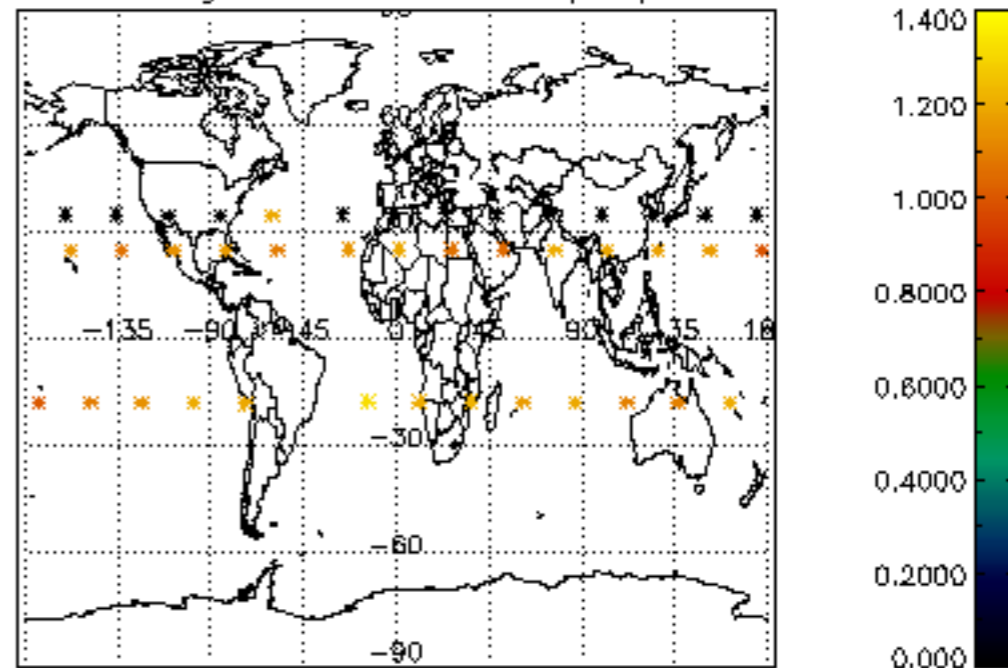




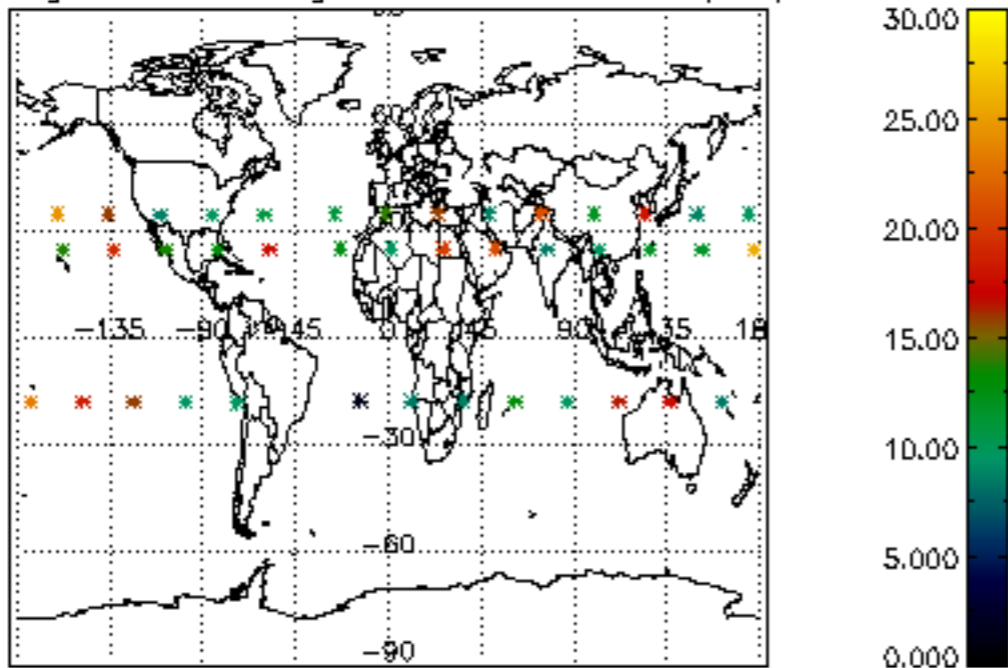
Percentage of cosmic ray hits per profile



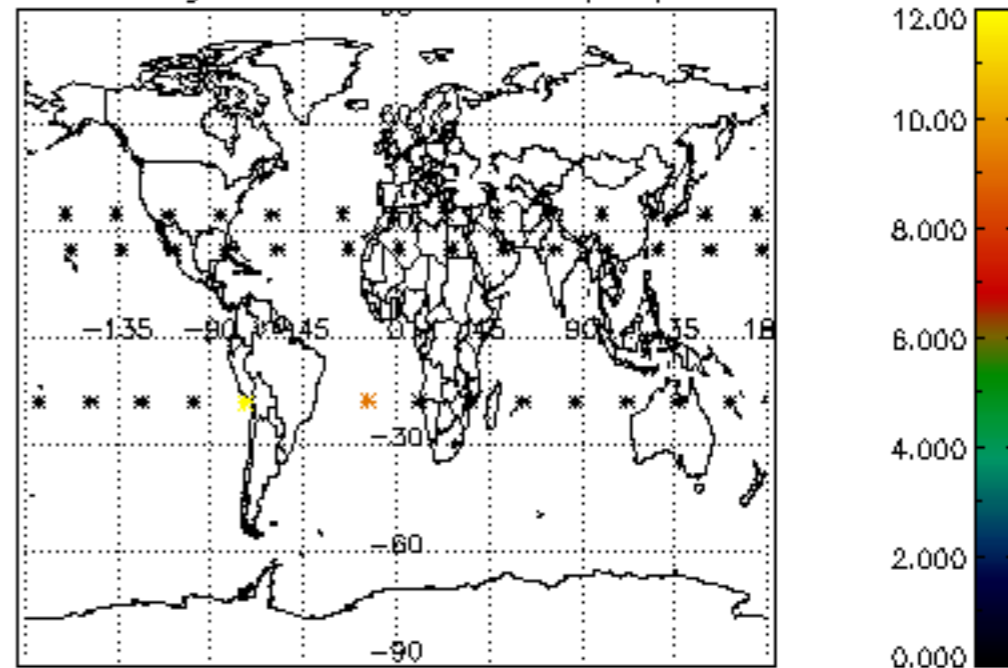
Percentage of datation errors per profile

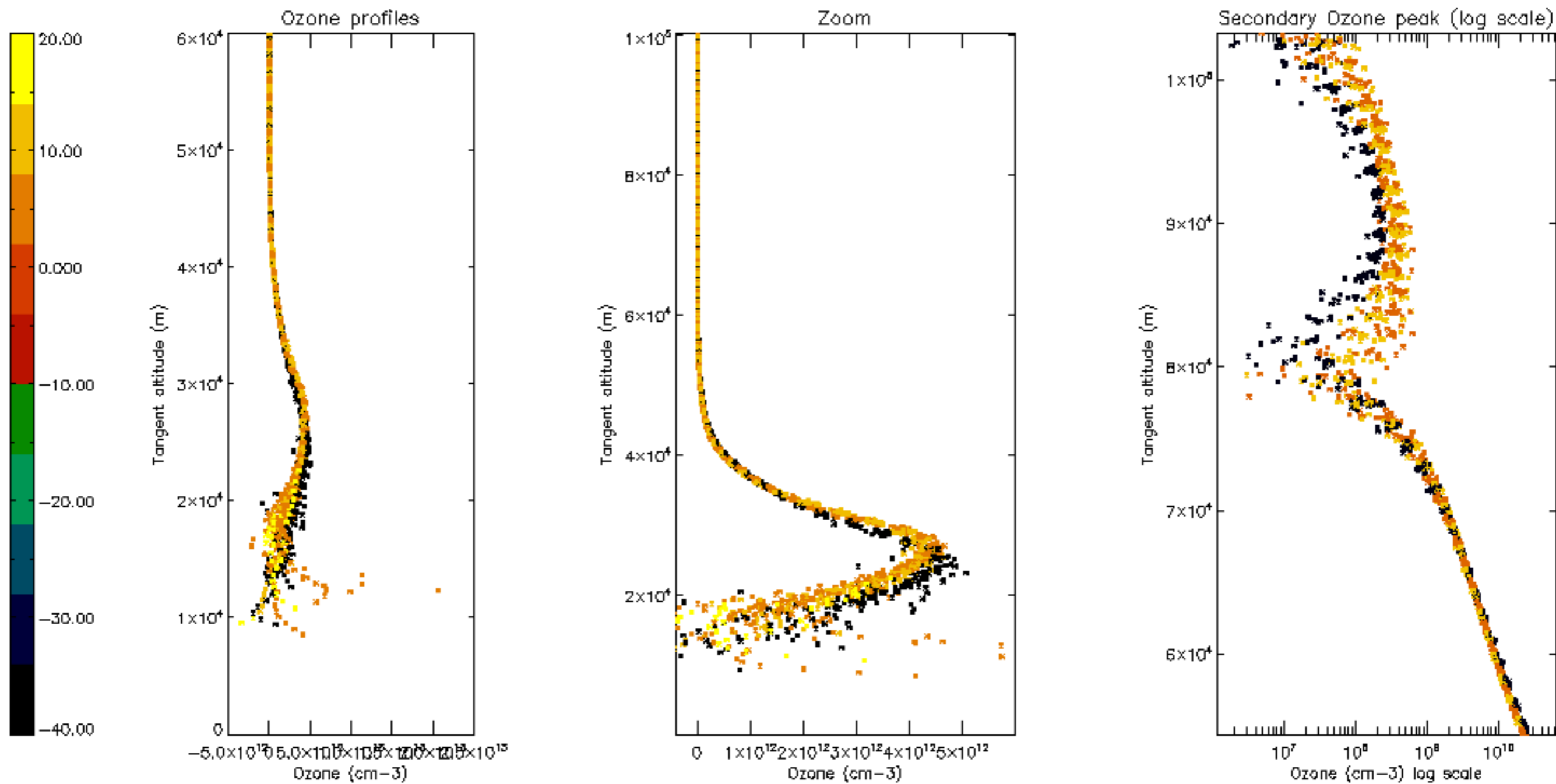


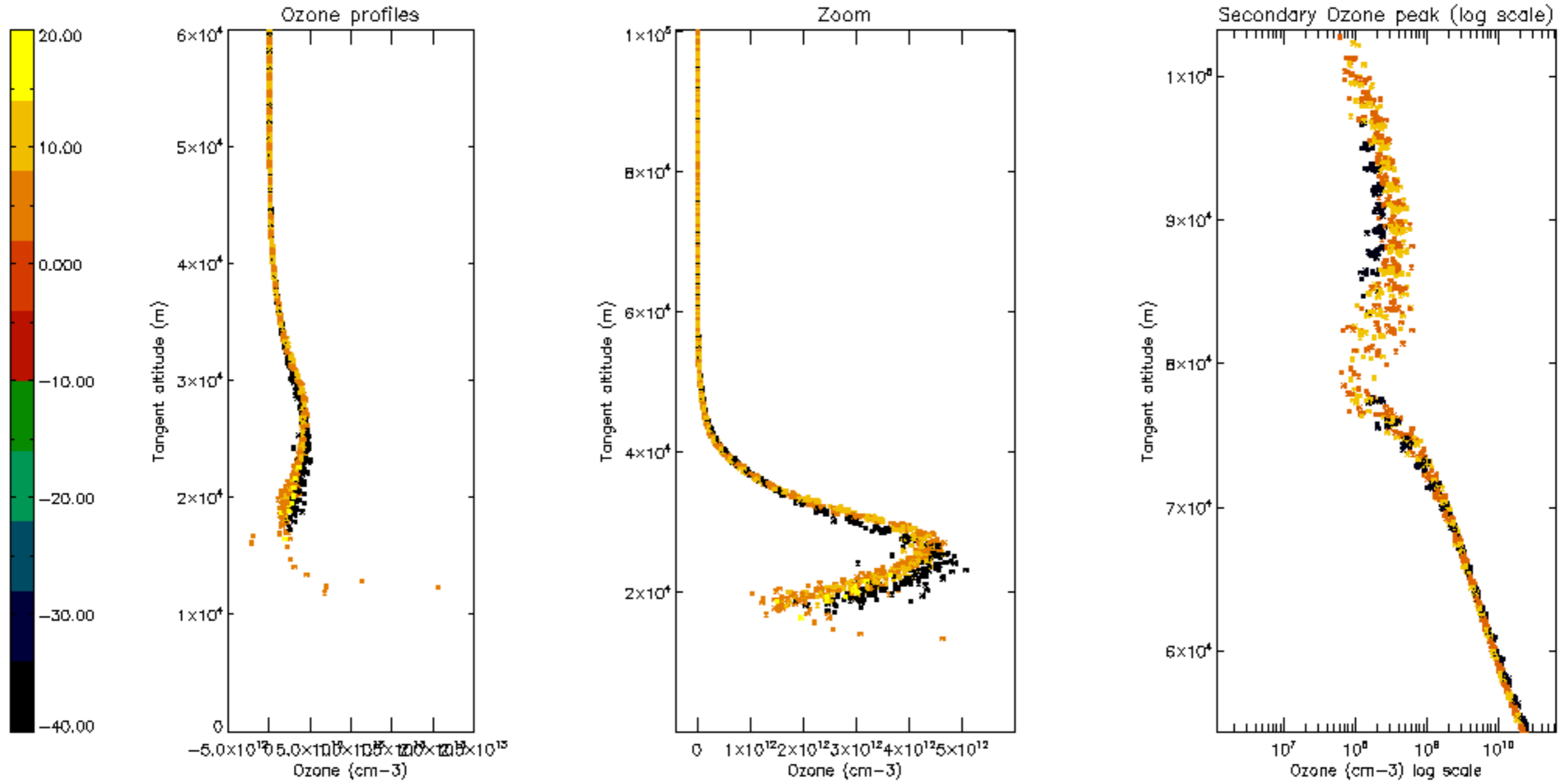
Percentage of star falling outside central band per profile

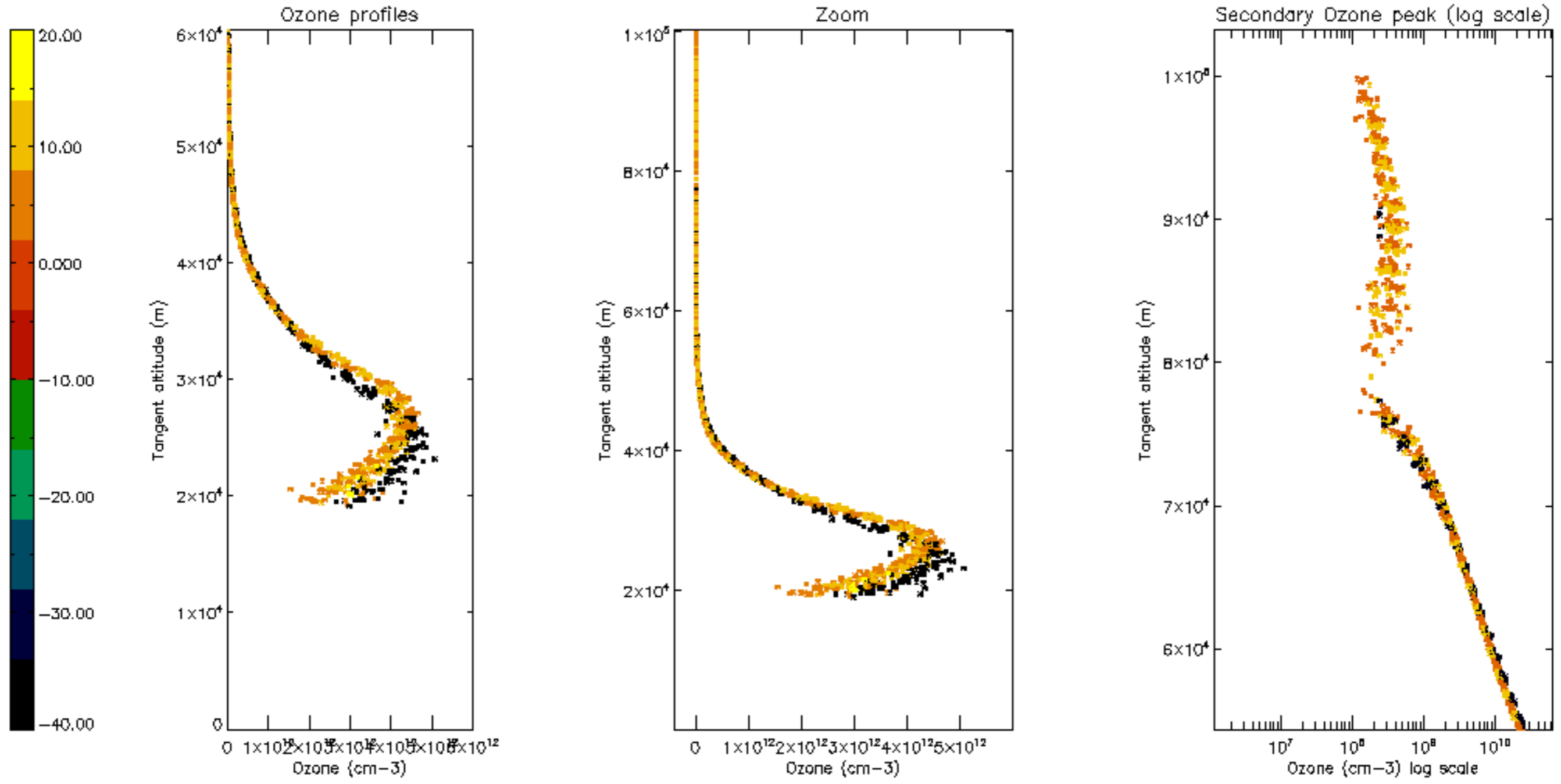


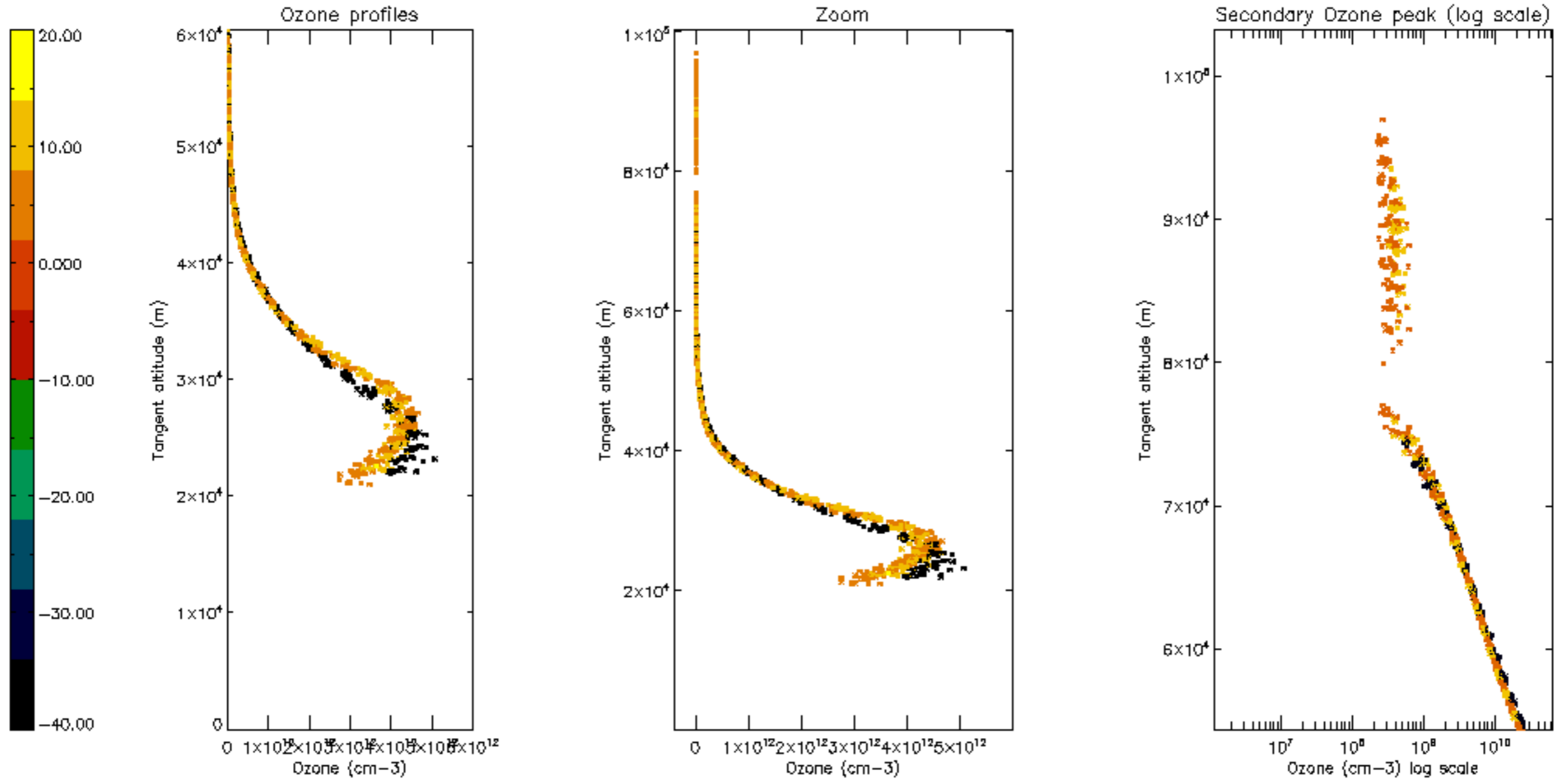
Percentage of saturation errors per profile

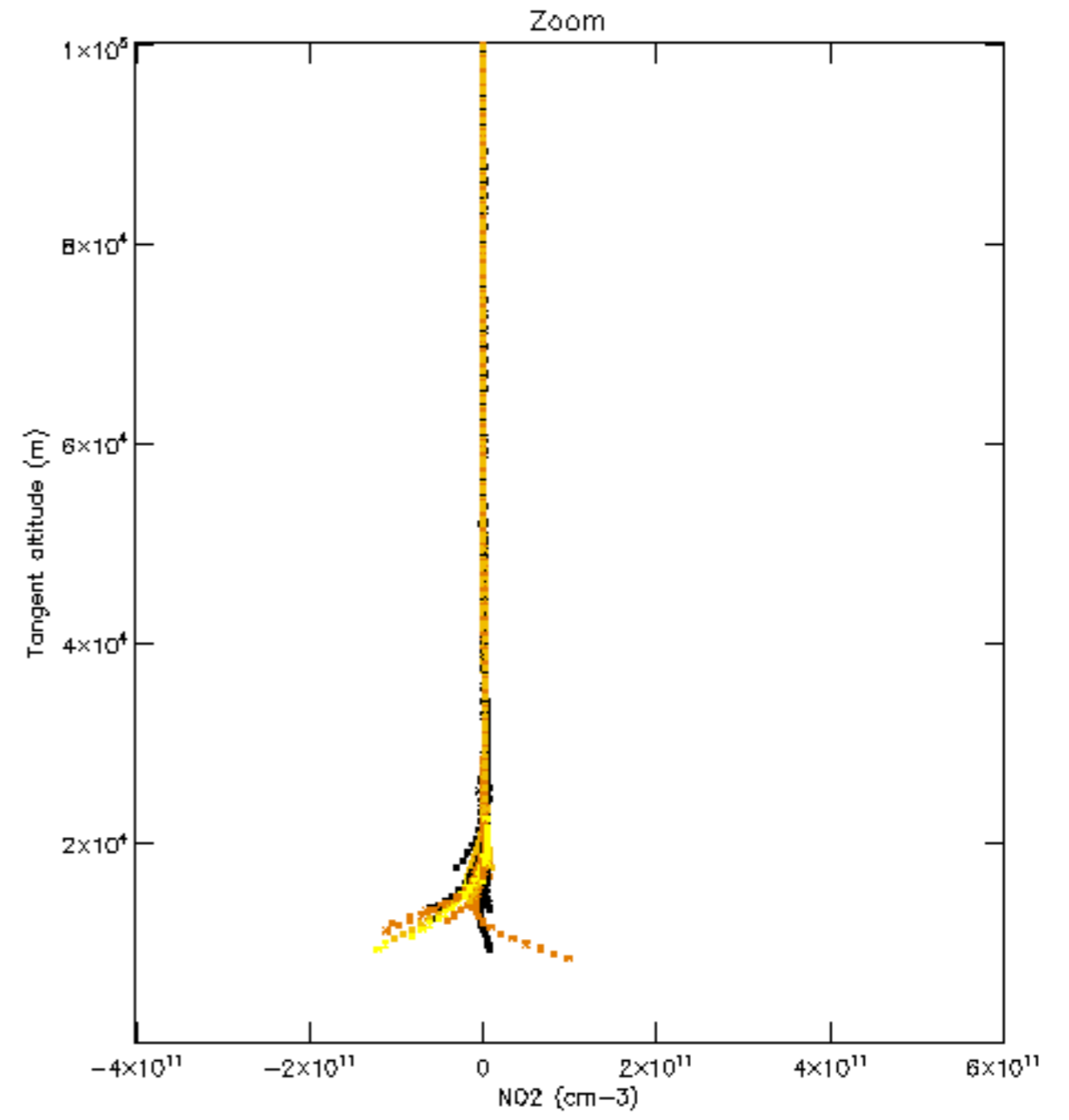
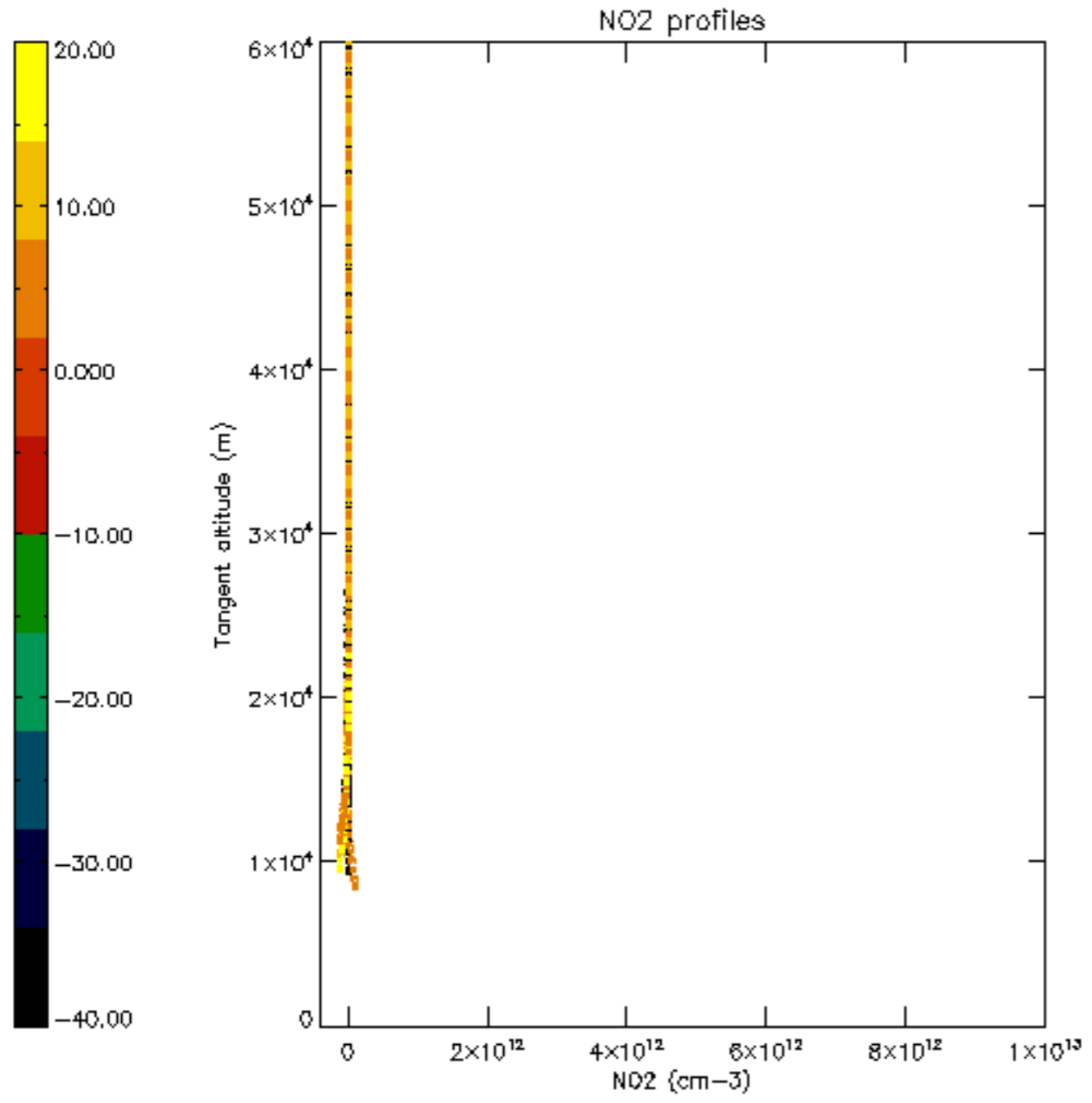


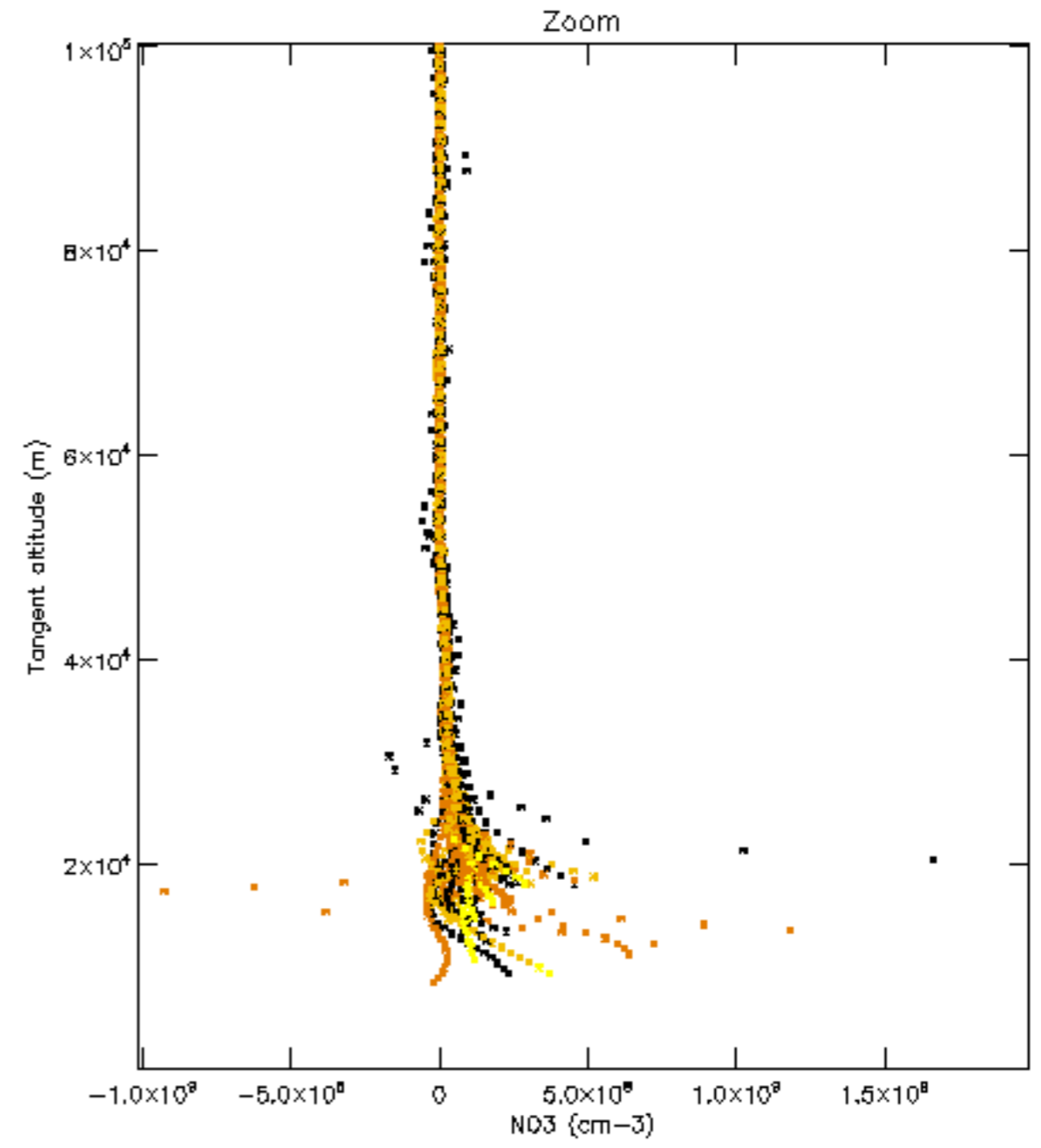
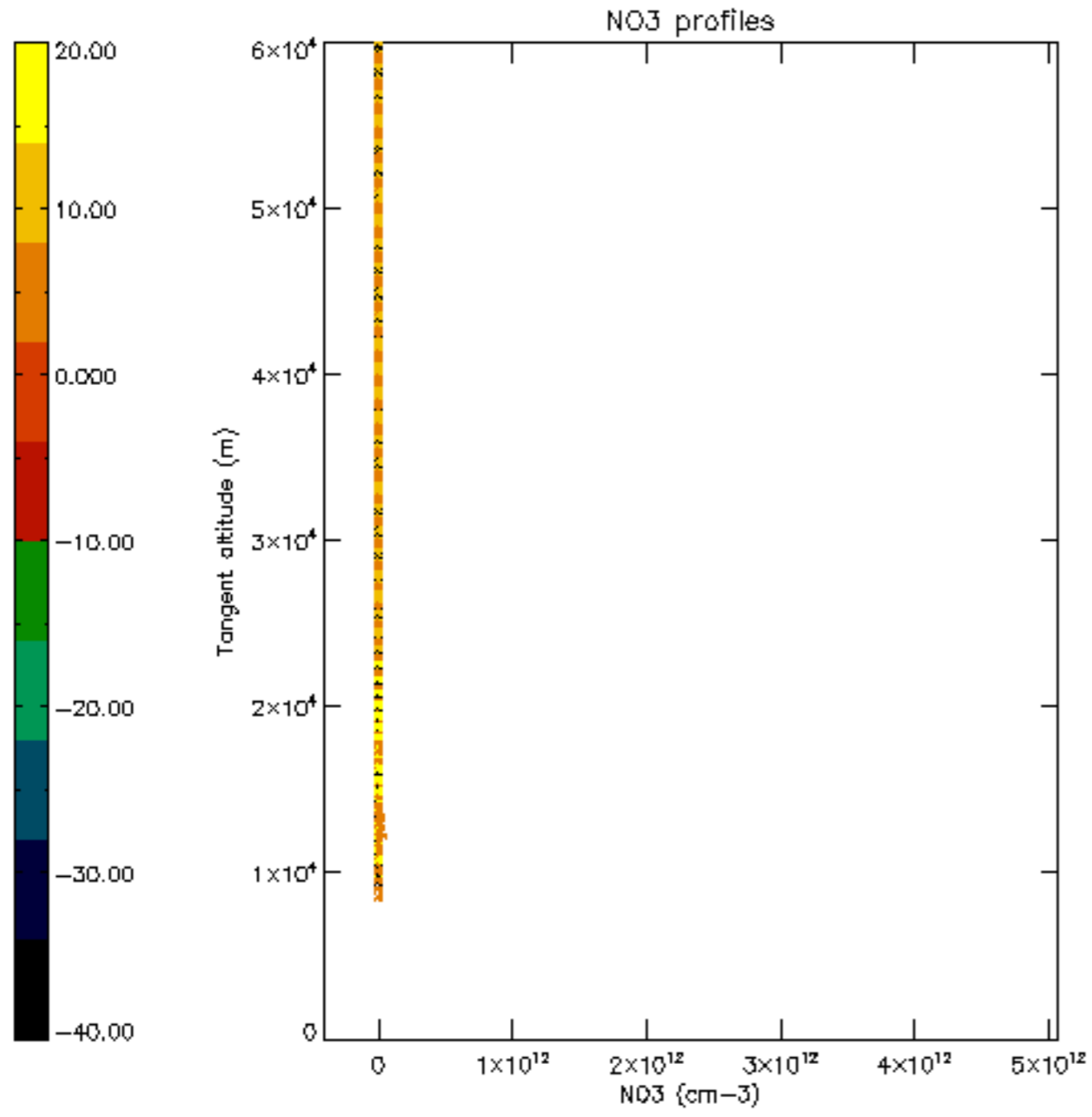


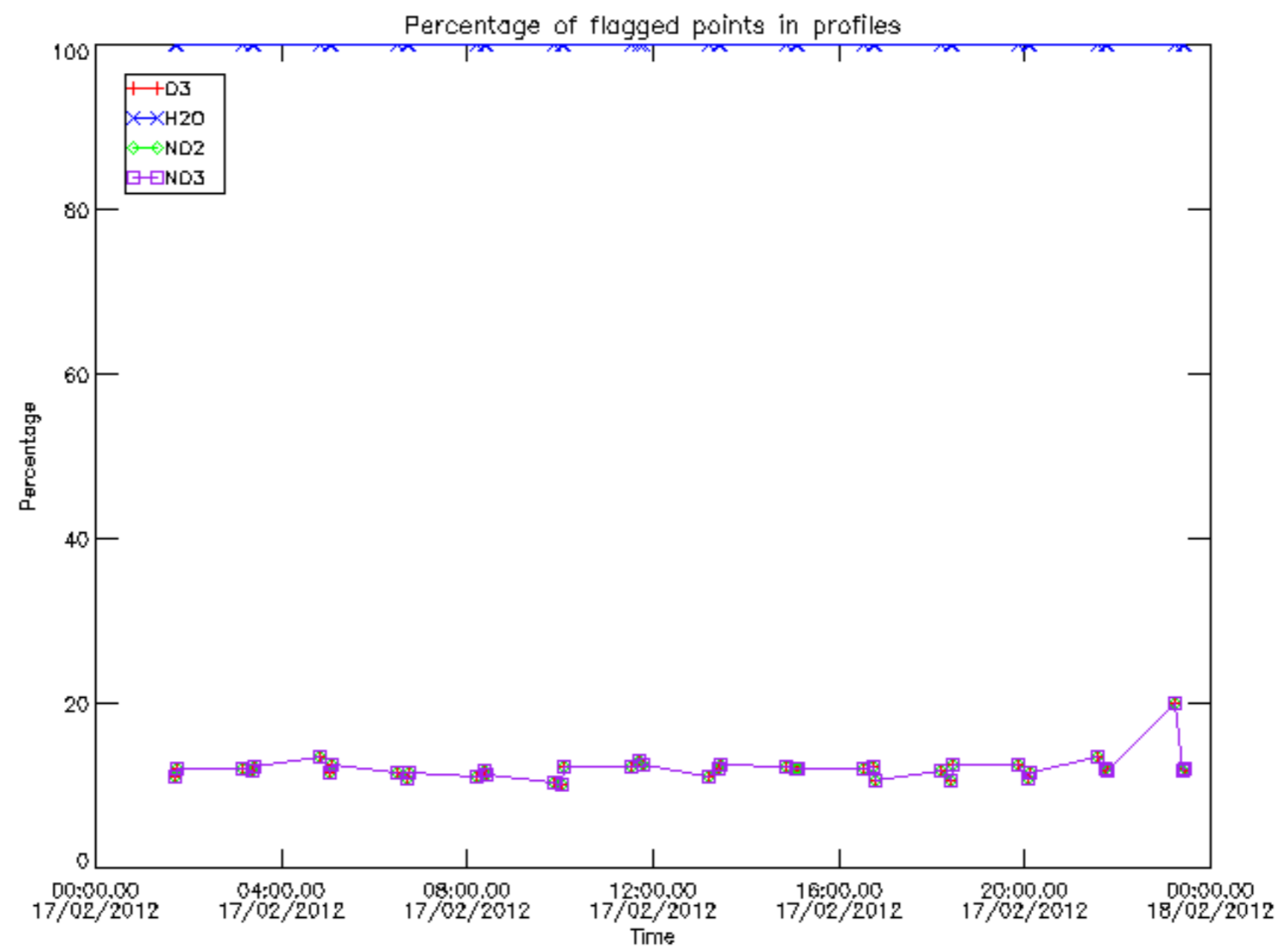




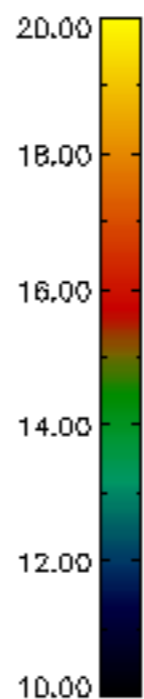
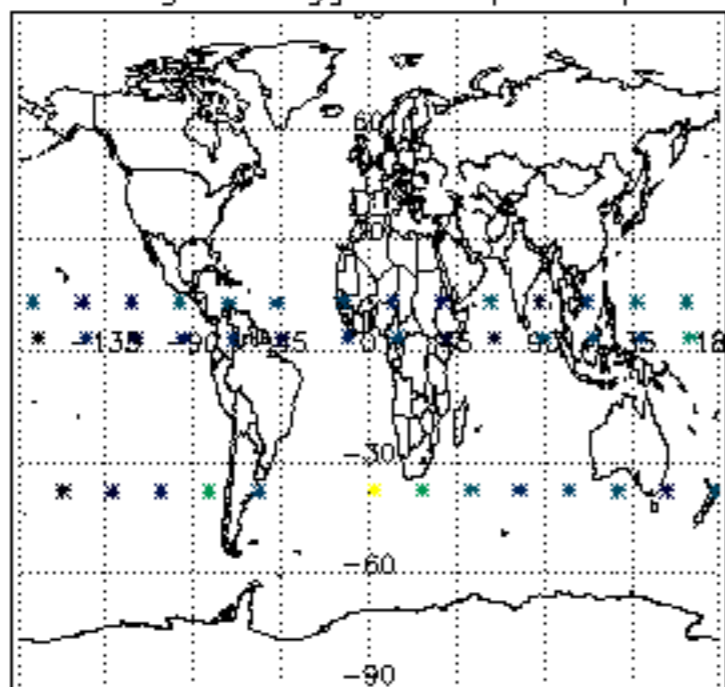




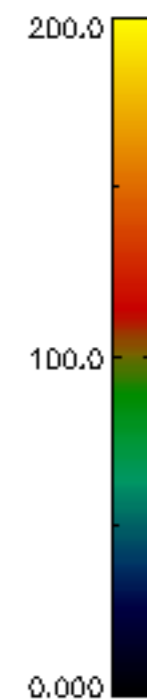
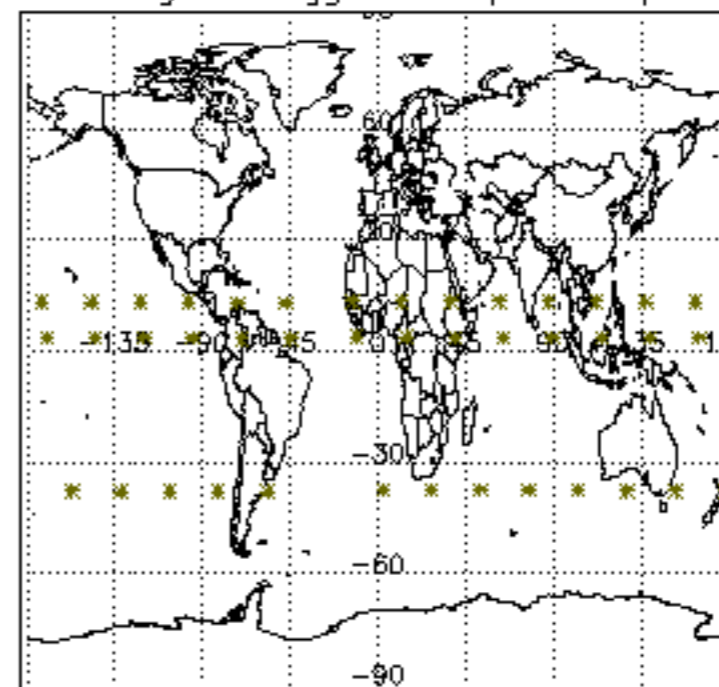




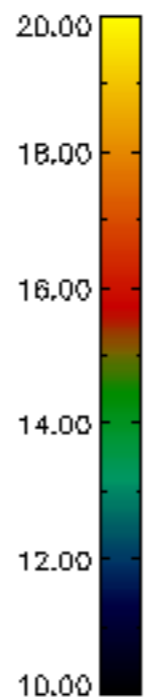
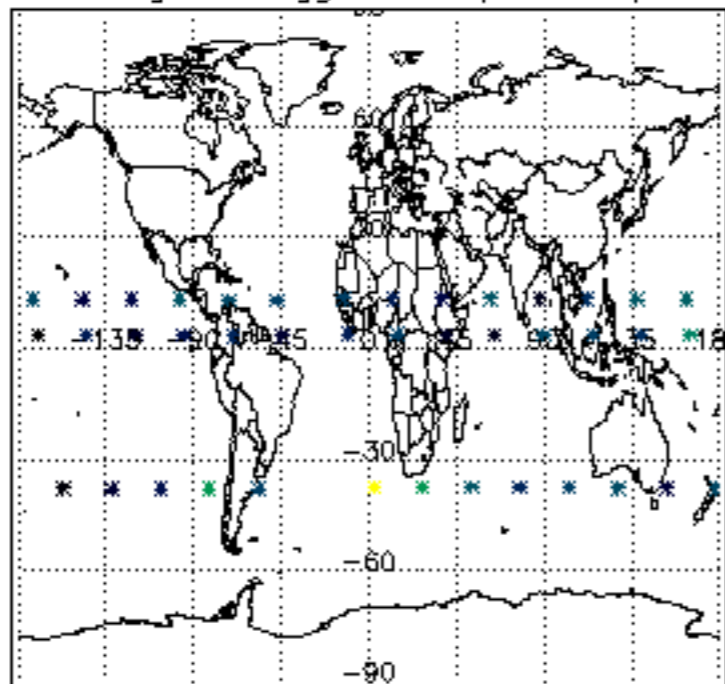
Percentage of flagged data per D3 profile



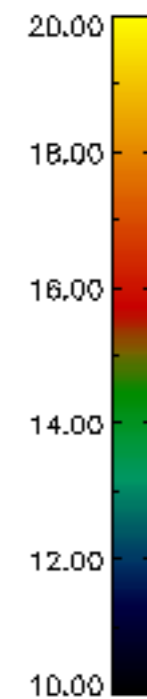
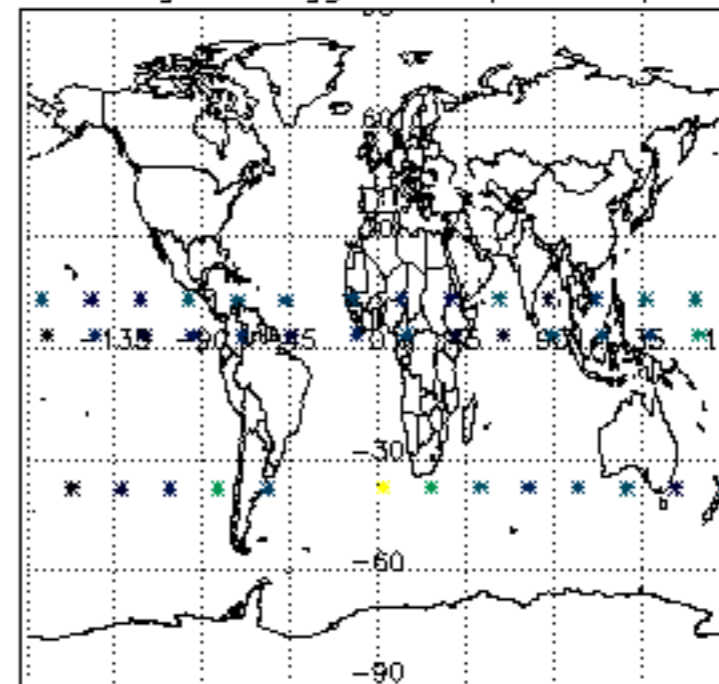
Percentage of flagged data per H2O profile

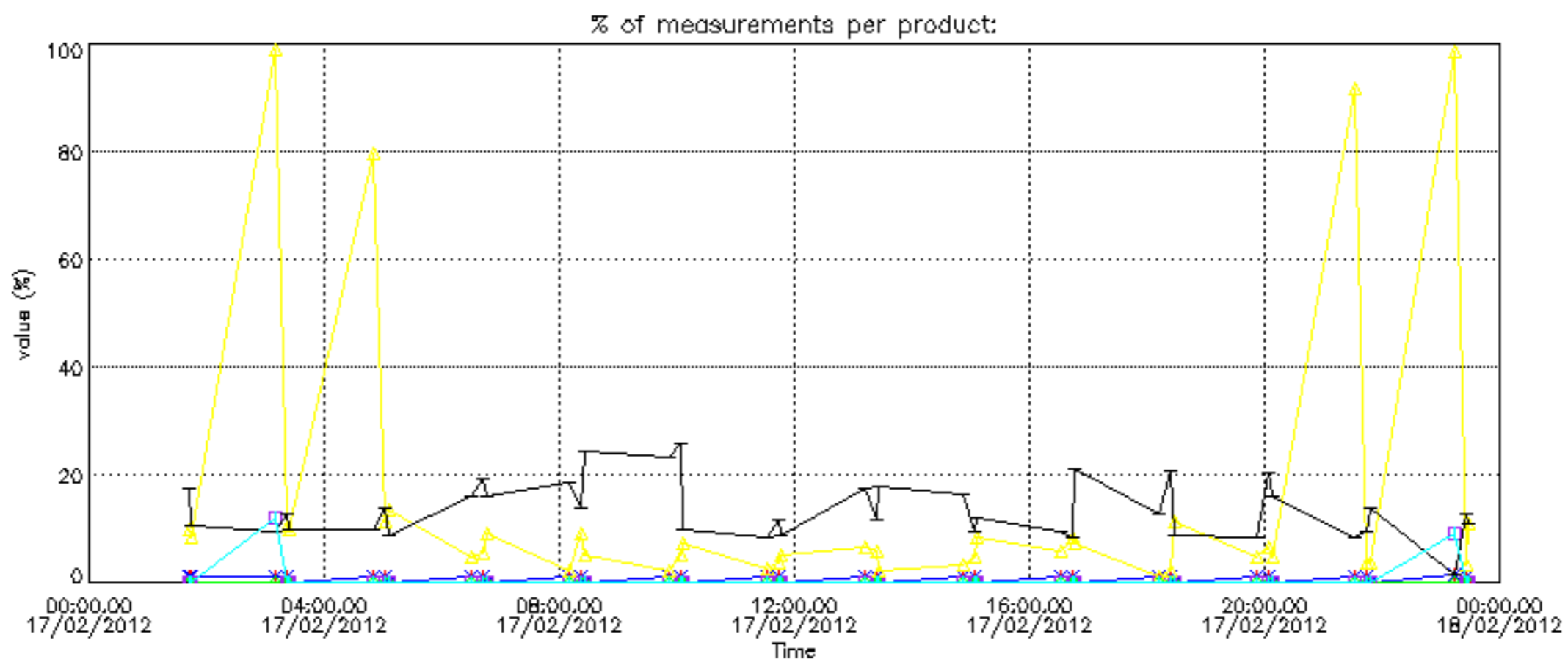


Percentage of flagged data per NO2 profile

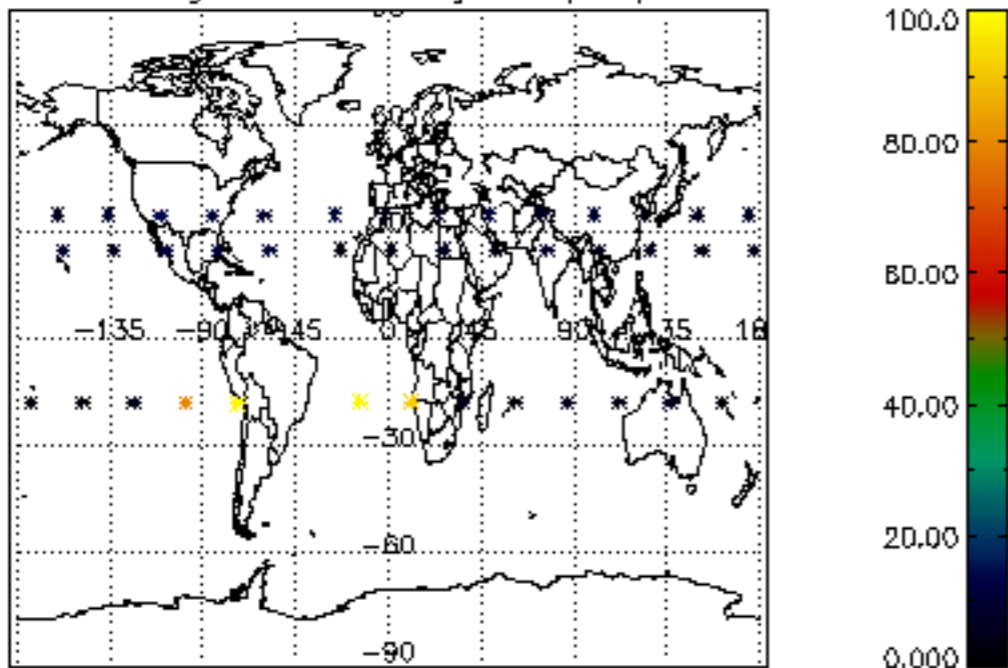


Percentage of flagged data per NO3 profile

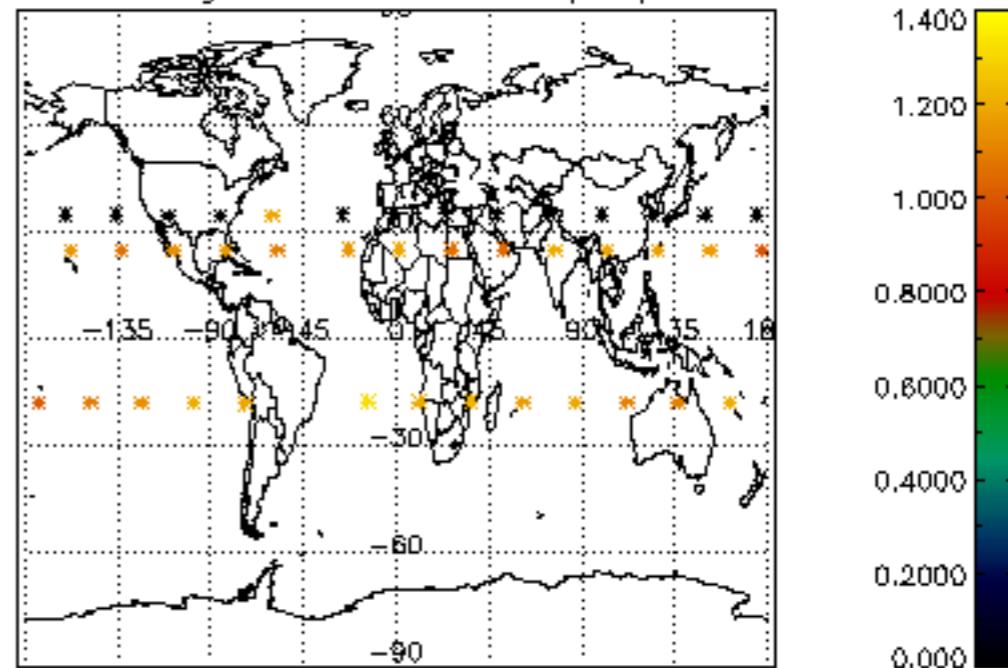




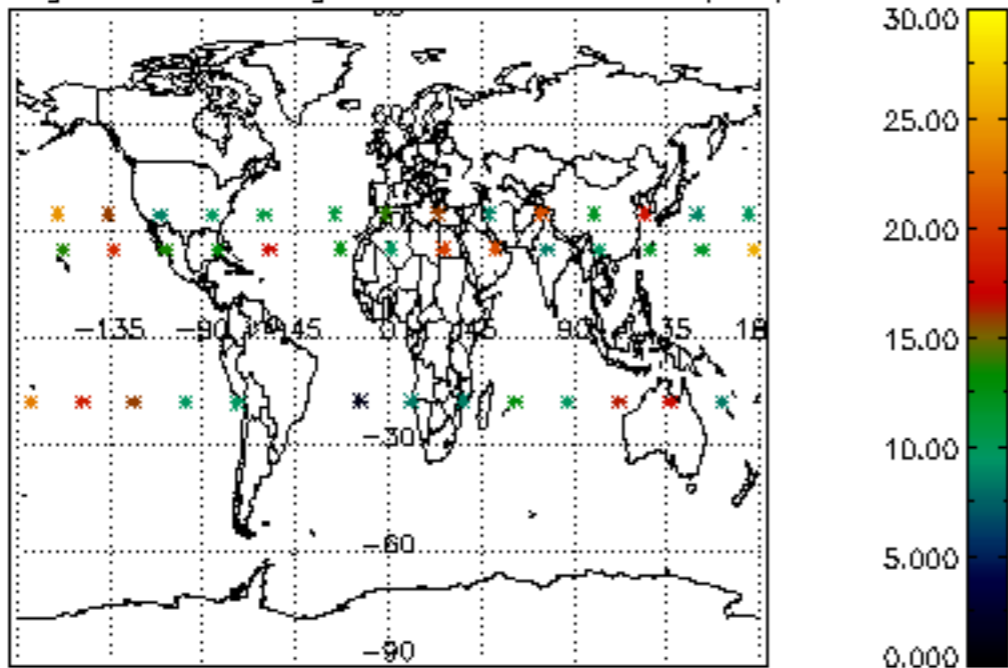
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

