

GOMOS Level 2 Daily Report

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

Item	Value
Time of report generation	22APR2013 13:16:25
Data source version	GOMOS/6.01
Start time of products	02-02-2007 (02FEB2007 00:00:00)
Stop time of products	03-02-2007 (03FEB2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	73
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

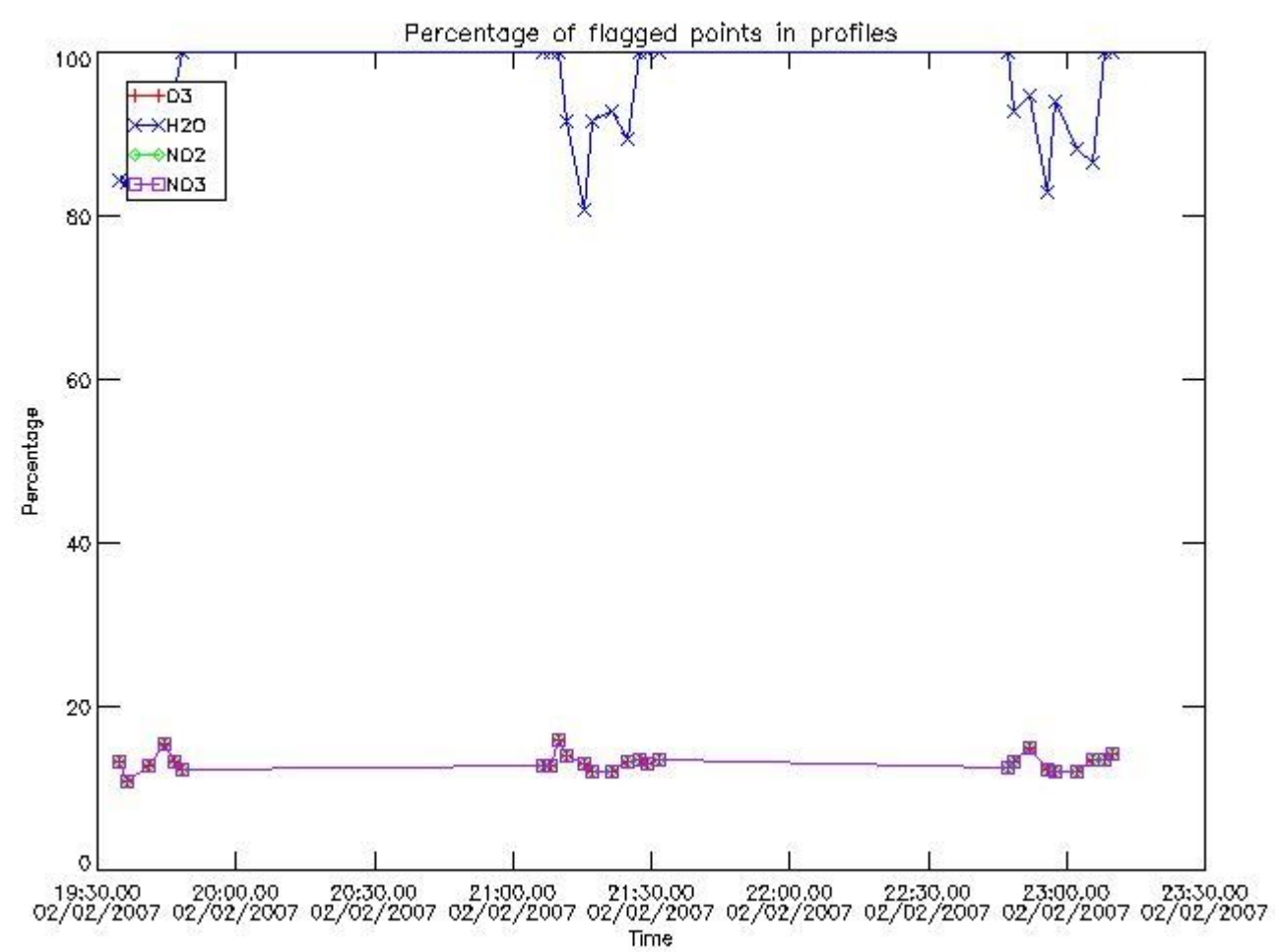
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070202_193450_000000392055_00157_25762_6522.N1	02-FEB-2007 19:34:50	Dark	38.500	43	Alp TrA	1.9100	4250.0	77	25762	No
2	GOM_NL__2PRFIN20070202_193624_000000482055_00157_25762_6523.N1	02-FEB-2007 19:36:24	Dark	47.500	4	Alp1Cen	-0.010000	5800.0	95	25762	No
3	GOM_NL__2PRFIN20070202_194100_000000402055_00157_25762_6524.N1	02-FEB-2007 19:41:00	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	25762	No
4	GOM_NL__2PRFIN20070202_194425_000000372055_00157_25762_6525.N1	02-FEB-2007 19:44:25	Dark	36.500	29	Bet Car	1.6720	10200.	73	25762	No
5	GOM_NL__2PRFIN20070202_194648_000000422055_00157_25762_6526.N1	02-FEB-2007 19:46:48	Dark	42.000	71	Iot Car	2.2460	7700.0	84	25762	No
6	GOM_NL__2PRFIN20070202_194832_000000422055_00157_25762_6527.N1	02-FEB-2007 19:48:32	Dark	41.500	46	Del Vel	1.9540	10600.	83	25762	No
7	GOM_NL__2PRFIN20070202_195103_000000412055_00157_25762_6528.N1	02-FEB-2007 19:51:03	Straylight	40.500	34	Gam2Vel	1.7930	23000.	81	25762	No
8	GOM_NL__2PRFIN20070202_195308_000000392055_00157_25762_6529.N1	02-FEB-2007 19:53:08	Straylight	39.000	70	Zet Pup	2.2460	39000.	78	25762	No
9	GOM_NL__2PRFIN20070202_195429_000000412055_00157_25762_6530.N1	02-FEB-2007 19:54:29	Straylight	41.000	117	Pi Pup	2.7060	3800.0	82	25762	No
10	GOM_NL__2PRFIN20070202_195655_000000422055_00157_25762_6531.N1	02-FEB-2007 19:56:55	Straylight	42.000	23	21Eps CMa	1.5020	26000.	84	25762	No
11	GOM_NL__2PRFIN20070202_195818_000000382055_00157_25762_6532.N1	02-FEB-2007 19:58:18	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	25762	No
12	GOM_NL__2PRFIN20070202_200027_000000432055_00157_25762_6533.N1	02-FEB-2007 20:00:27	Straylight	42.500	1	9Alp CMa	-1.4400	11000.	85	25762	No
13	GOM_NL__2PRFIN20070202_200611_000000502055_00157_25762_6534.N1	02-FEB-2007 20:06:11	Twilight	49.500	8	10Alp CMI	0.40000	6500.0	99	25762	No
14	GOM_NL__2PRFIN20070202_200941_000000372055_00157_25762_6535.N1	02-FEB-2007 20:09:41	Bright	37.000	44	24Gam Gem	1.9280	11000.	74	25762	No
15	GOM_NL__2PRFIN20070202_201131_000000382055_00157_25762_6536.N1	02-FEB-2007 20:11:31	Bright	37.500	151	13Mu Gem	2.8900	3000.0	75	25762	No
16	GOM_NL__2PRFIN20070202_201351_000000382055_00157_25762_6537.N1	02-FEB-2007 20:13:51	Bright	38.000	24	66Alp Gem	1.5800	10200.	76	25762	No
17	GOM_NL__2PRFIN20070202_201551_000000352055_00157_25762_6538.N1	02-FEB-2007 20:15:51	Bright	35.000	107	37The Aur	2.6490	11000.	70	25762	No
18	GOM_NL__2PRFIN20070202_201755_000000352055_00157_25762_6539.N1	02-FEB-2007 20:17:55	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	25762	No
19	GOM_NL__2PRFIN20070202_203005_000000372055_00157_25762_6540.N1	02-FEB-2007 20:30:05	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	25762	No
20	GOM_NL__2PRFIN20070202_204118_000000392055_00157_25762_6541.N1	02-FEB-2007 20:41:18	Bright	38.500	69	33Gam Dra	2.2310	3800.0	77	25762	No
21	GOM_NL__2PRFIN20070202_204445_000000372055_00157_25762_6542.N1	02-FEB-2007 20:44:45	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	25762	No
22	GOM_NL__2PRFIN20070202_205125_000000332055_00157_25762_6543.N1	02-FEB-2007 20:51:25	Bright	32.500	168	17Zet Aql	2.9860	11000.	65	25762	No
23	GOM_NL__2PRFIN20070202_205510_000000382055_00157_25762_6544.N1	02-FEB-2007 20:55:10	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	25762	No
24	GOM_NL__2PRFIN20070202_210420_000000422055_00157_25762_6545.N1	02-FEB-2007 21:04:20	Twilight	41.500	167	10Gam2Sgr	2.9840	4500.0	83	25762	No
25	GOM_NL__2PRFIN20070202_210643_000000402055_00157_25762_6546.N1	02-FEB-2007 21:06:43	Dark	40.000	25	35Lam Sco	1.6200	28000.	80	25762	No
26	GOM_NL__2PRFIN20070202_210810_000000402055_00157_25762_6547.N1	02-FEB-2007 21:08:10	Dark	40.000	40	The Sco	1.8590	7100.0	80	25762	No
27	GOM_NL__2PRFIN20070202_211002_000000362055_00157_25762_6548.N1	02-FEB-2007 21:10:02	Dark	35.500	147	Alp Ara	2.8770	26000.	71	25762	No
28	GOM_NL__2PRFIN20070202_211135_000000372055_00157_25762_6549.N1	02-FEB-2007 21:11:35	Dark	36.500	141	Bet Ara	2.8400	4600.0	73	25762	No
29	GOM_NL__2PRFIN20070202_211526_000000402055_00158_25763_6538.N1	02-FEB-2007 21:15:26	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	25763	No
30	GOM_NL__2PRFIN20070202_211701_000000432055_00158_25763_6539.N1	02-FEB-2007 21:17:01	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	25763	No
31	GOM_NL__2PRFIN20070202_212136_000000432055_00158_25763_6540.N1	02-FEB-2007 21:21:36	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	25763	No
32	GOM_NL__2PRFIN20070202_212501_000000392055_00158_25763_6541.N1	02-FEB-2007 21:25:01	Dark	38.500	29	Bet Car	1.6720	10200.	77	25763	No
33	GOM_NL__2PRFIN20070202_212724_000000382055_00158_25763_6542.N1	02-FEB-2007 21:27:24	Dark	37.500	71	Iot Car	2.2460	7700.0	75	25763	No
34	GOM_NL__2PRFIN20070202_212908_000000392055_00158_25763_6543.N1	02-FEB-2007 21:29:08	Dark	39.000	46	Del Vel	1.9540	10600.	78	25763	No
35	GOM_NL__2PRFIN20070202_213139_000000382055_00158_25763_6544.N1	02-FEB-2007 21:31:39	Dark	37.500	34	Gam2Vel	1.7930	23000.	75	25763	No
36	GOM_NL__2PRFIN20070202_213344_000000412055_00158_25763_6545.N1	02-FEB-2007 21:33:44	Straylight	40.500	70	Zet Pup	2.2460	39000.	81	25763	No
37	GOM_NL__2PRFIN20070202_213505_000000392055_00158_25763_6546.N1	02-FEB-2007 21:35:05	Straylight	39.000	117	Pi Pup	2.7060	3800.0	78	25763	No
38	GOM_NL__2PRFIN20070202_213731_000000392055_00158_25763_6547.N1	02-FEB-2007 21:37:31	Straylight	39.000	23	21Eps CMa	1.5020	26000.	78	25763	No
39	GOM_NL__2PRFIN20070202_213854_000000372055_00158_25763_6548.N1	02-FEB-2007 21:38:54	Straylight	37.000	179	24Omi2CMa	3.0320	24000.	74	25763	No
40	GOM_NL__2PRFIN20070202_214103_000000452055_00158_25763_6549.N1	02-FEB-2007 21:41:03	Straylight	45.000	1	9Alp CMa	-1.4400	11000.	90	25763	No
41	GOM_NL__2PRFIN20070202_214647_000000502055_00158_25763_6550.N1	02-FEB-2007 21:46:47	Twilight	50.000	8	10Alp CMI	0.40000	6500.0	100	25763	No
42	GOM_NL__2PRFIN20070202_215016_000000372055_00158_25763_6551.N1	02-FEB-2007 21:50:16	Bright	37.000	44	24Gam Gem	1.9280	11000.	74	25763	No

43	GOM_NL__2PRFIN20070202_215208_000000372055_00158_25763_6552.N1	02-FEB-2007 21:52:08	Bright	36.500	151	13Mu Gem	2.8900	3000.0	73	25763	No
44	GOM_NL__2PRFIN20070202_215427_000000372055_00158_25763_6553.N1	02-FEB-2007 21:54:27	Bright	37.000	24	66Alp Gem	1.5800	10200.	74	25763	No
45	GOM_NL__2PRFIN20070202_215627_000000362055_00158_25763_6554.N1	02-FEB-2007 21:56:27	Bright	36.000	107	37The Aur	2.6490	11000.	72	25763	No
46	GOM_NL__2PRFIN20070202_215831_000000372055_00158_25763_6555.N1	02-FEB-2007 21:58:31	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	25763	No
47	GOM_NL__2PRFIN20070202_221041_000000322055_00158_25763_6556.N1	02-FEB-2007 22:10:41	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	25763	No
48	GOM_NL__2PRFIN20070202_222154_000000372055_00158_25763_6557.N1	02-FEB-2007 22:21:54	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	25763	No
49	GOM_NL__2PRFIN20070202_222521_000000352055_00158_25763_6558.N1	02-FEB-2007 22:25:21	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	25763	No
50	GOM_NL__2PRFIN20070202_223546_000000372055_00158_25763_6559.N1	02-FEB-2007 22:35:46	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	25763	No
51	GOM_NL__2PRFIN20070202_224456_000000382055_00158_25763_6560.N1	02-FEB-2007 22:44:56	Twilight	38.000	167	10Gam2Sgr	2.9840	4500.0	76	25763	No
52	GOM_NL__2PRFIN20070202_224719_000000412055_00158_25763_6561.N1	02-FEB-2007 22:47:19	Dark	41.000	25	35Lam Sco	1.6200	28000.	82	25763	No
53	GOM_NL__2PRFIN20070202_224846_000000422055_00158_25763_6562.N1	02-FEB-2007 22:48:46	Dark	42.000	40	The Sco	1.8590	7100.0	84	25763	No
54	GOM_NL__2PRFIN20070202_225211_000000382055_00158_25763_6563.N1	02-FEB-2007 22:52:11	Dark	37.500	141	Bet Ara	2.8400	4600.0	75	25763	No
55	GOM_NL__2PRFIN20070202_225602_000000422055_00159_25764_6547.N1	02-FEB-2007 22:56:02	Dark	41.500	43	Alp TrA	1.9100	4250.0	83	25764	No
56	GOM_NL__2PRFIN20070202_225737_000000422055_00159_25764_6548.N1	02-FEB-2007 22:57:37	Dark	42.000	4	Alp1Cen	-0.010000	5800.0	84	25764	No
57	GOM_NL__2PRFIN20070202_230213_000000432055_00159_25764_6549.N1	02-FEB-2007 23:02:13	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	25764	No
58	GOM_NL__2PRFIN20070202_230537_000000382055_00159_25764_6550.N1	02-FEB-2007 23:05:37	Dark	37.500	29	Bet Car	1.6720	10200.	75	25764	No
59	GOM_NL__2PRFIN20070202_230801_000000382055_00159_25764_6551.N1	02-FEB-2007 23:08:01	Dark	37.500	71	lot Car	2.2460	7700.0	75	25764	No
60	GOM_NL__2PRFIN20070202_230945_000000402055_00159_25764_6552.N1	02-FEB-2007 23:09:45	Dark	39.500	46	Del Vel	1.9540	10600.	79	25764	No
61	GOM_NL__2PRFIN20070202_231215_000000412055_00159_25764_6553.N1	02-FEB-2007 23:12:15	Straylight	40.500	34	Gam2Vel	1.7930	23000.	81	25764	No
62	GOM_NL__2PRFIN20070202_231420_000000392055_00159_25764_6554.N1	02-FEB-2007 23:14:20	Straylight	38.500	70	Zet Pup	2.2460	39000.	77	25764	No
63	GOM_NL__2PRFIN20070202_231541_000000422055_00159_25764_6555.N1	02-FEB-2007 23:15:41	Straylight	42.000	117	Pi Pup	2.7060	3800.0	84	25764	No
64	GOM_NL__2PRFIN20070202_231807_000000392055_00159_25764_6556.N1	02-FEB-2007 23:18:07	Straylight	39.000	23	21Eps CMa	1.5020	26000.	78	25764	No
65	GOM_NL__2PRFIN20070202_231930_000000382055_00159_25764_6557.N1	02-FEB-2007 23:19:30	Straylight	37.500	179	24Omi2CMa	3.0320	24000.	75	25764	No
66	GOM_NL__2PRFIN20070202_232139_000000472055_00159_25764_6558.N1	02-FEB-2007 23:21:39	Straylight	46.500	1	9Alp CMa	-1.4400	11000.	93	25764	No
67	GOM_NL__2PRFIN20070202_232723_000000482055_00159_25764_6559.N1	02-FEB-2007 23:27:23	Tw_i_and_stray	48.000	8	10Alp CMi	0.40000	6500.0	96	25764	No
68	GOM_NL__2PRFIN20070202_233053_000000372055_00159_25764_6560.N1	02-FEB-2007 23:30:53	Bright	37.000	44	24Gam Gem	1.9280	11000.	74	25764	No
69	GOM_NL__2PRFIN20070202_233244_000000372055_00159_25764_6561.N1	02-FEB-2007 23:32:44	Bright	37.000	151	13Mu Gem	2.8900	3000.0	74	25764	No
70	GOM_NL__2PRFIN20070202_233503_000000382055_00159_25764_6562.N1	02-FEB-2007 23:35:03	Bright	38.000	24	66Alp Gem	1.5800	10200.	76	25764	No
71	GOM_NL__2PRFIN20070202_233703_000000362055_00159_25764_6563.N1	02-FEB-2007 23:37:03	Bright	36.000	107	37The Aur	2.6490	11000.	72	25764	No
72	GOM_NL__2PRFIN20070202_233907_000000352055_00159_25764_6564.N1	02-FEB-2007 23:39:07	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	25764	No
73	GOM_NL__2PRFIN20070202_235117_000000342055_00159_25764_6565.N1	02-FEB-2007 23:51:17	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	25764	No

3. Quality information per product

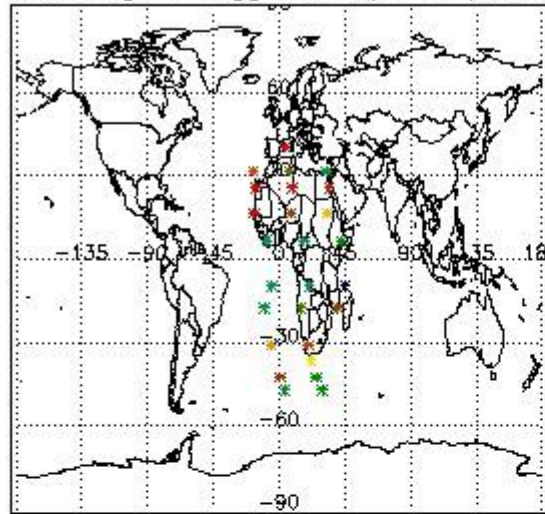
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

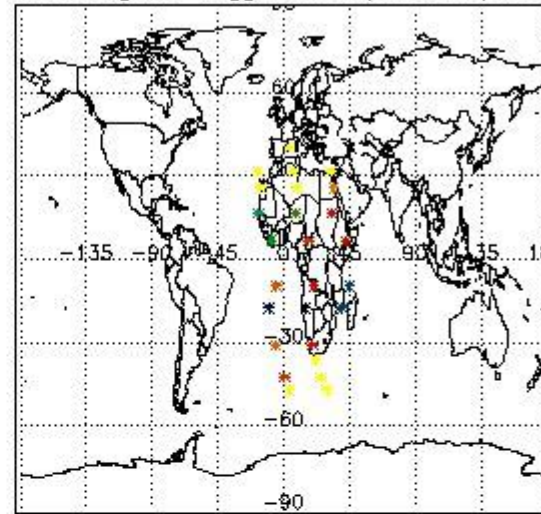


3.2 Plot quality information per product (world map)

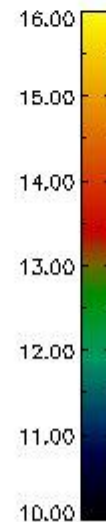
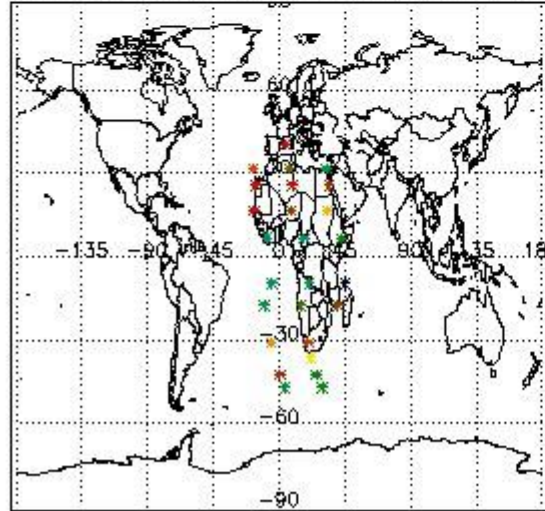
Percentage of flagged data per O3 profile



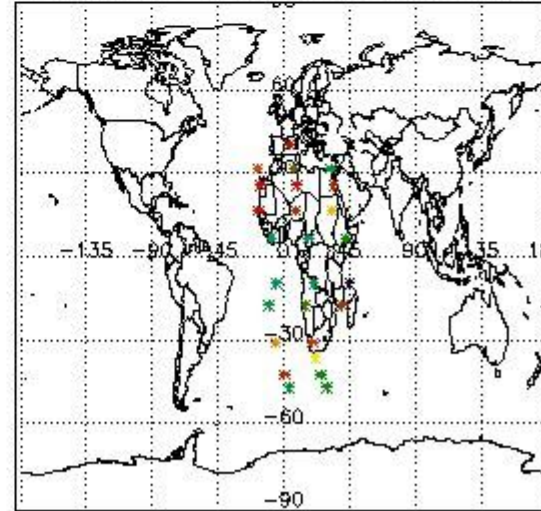
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

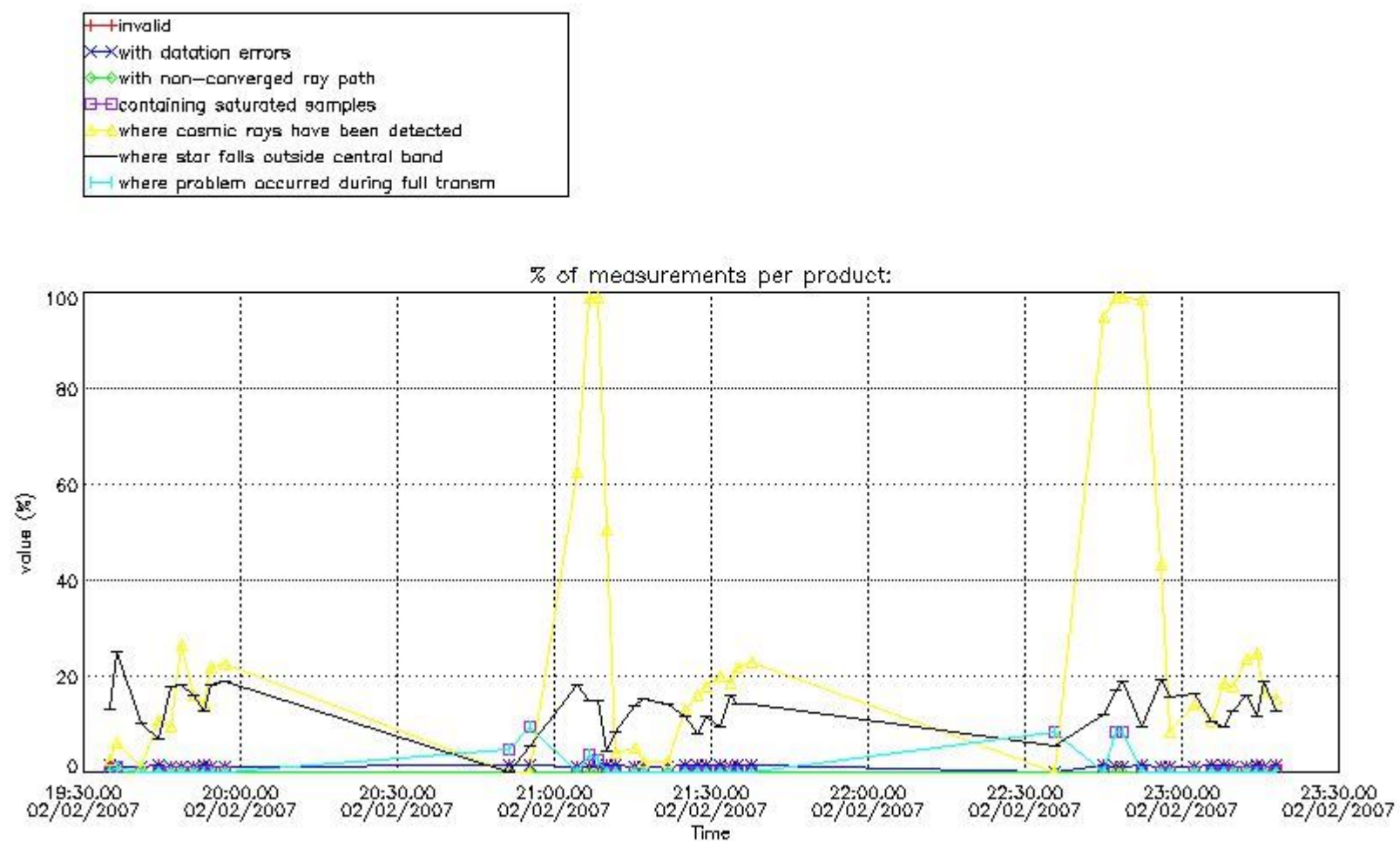


4. Level 1 quality information per product

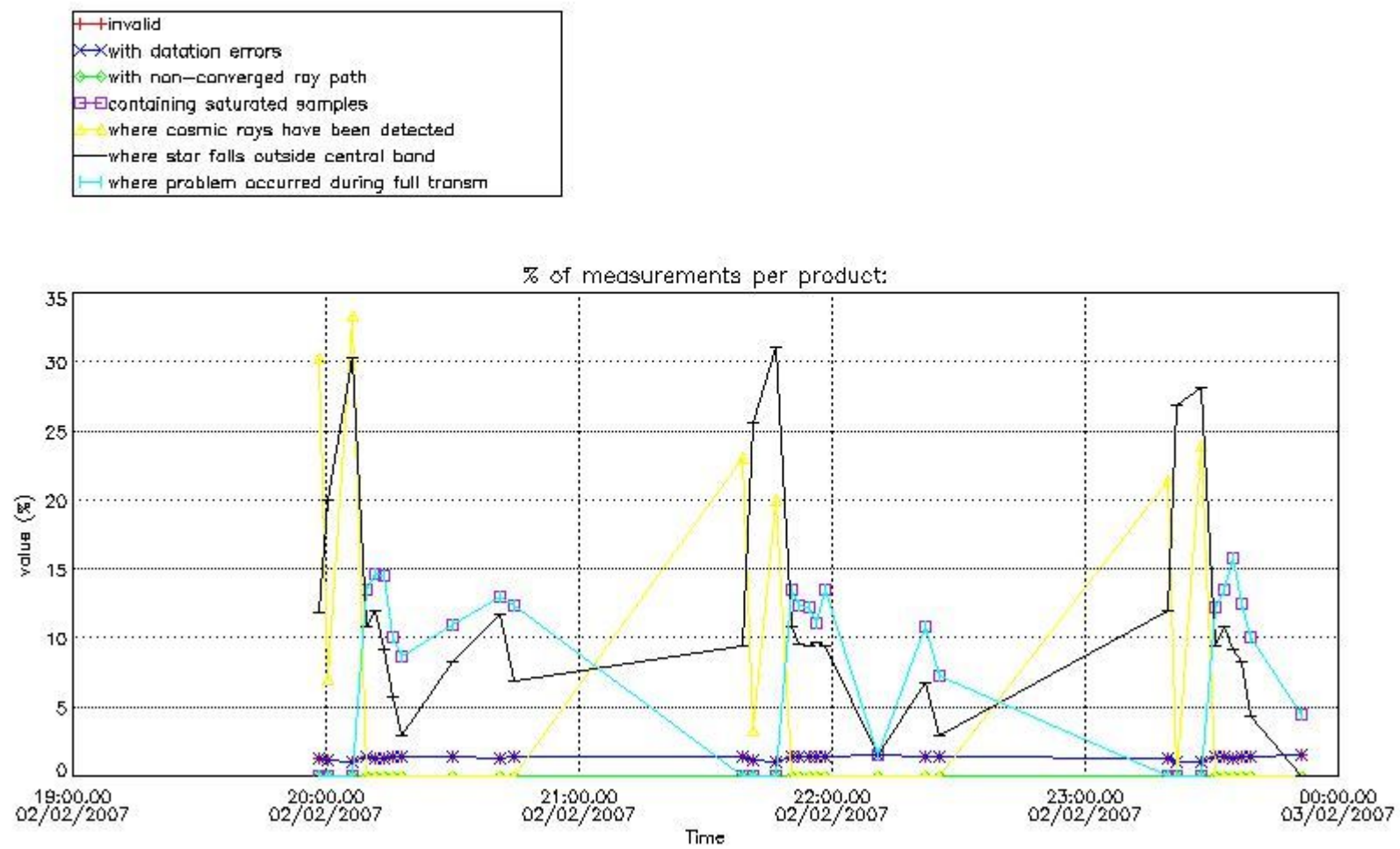
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



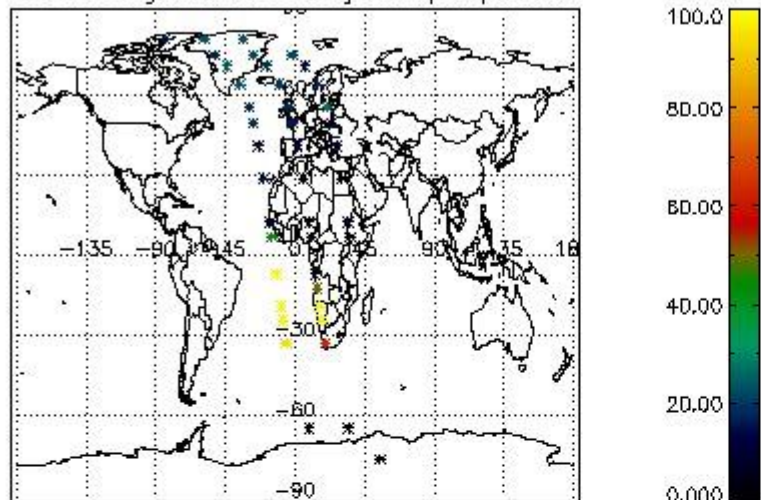
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



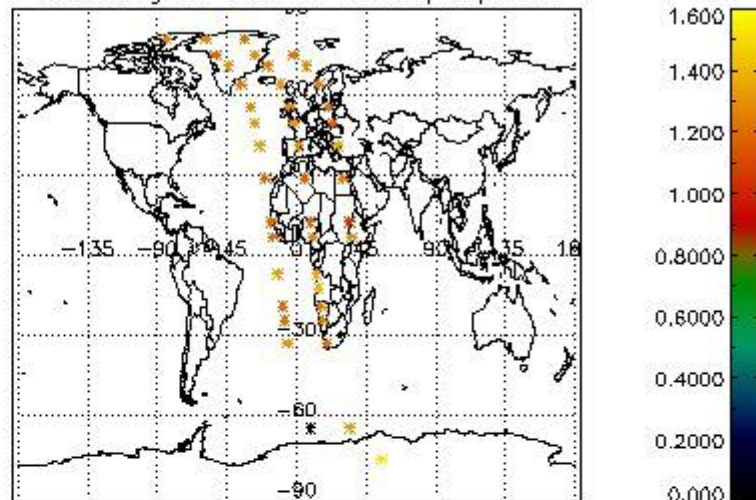
4.2 Plot quality information per product coming from level 1b processing (world map)

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

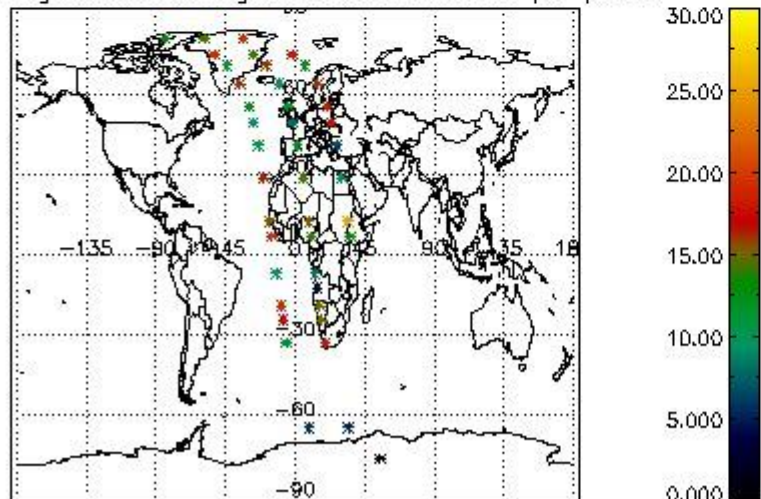
Percentage of cosmic ray hits per profile



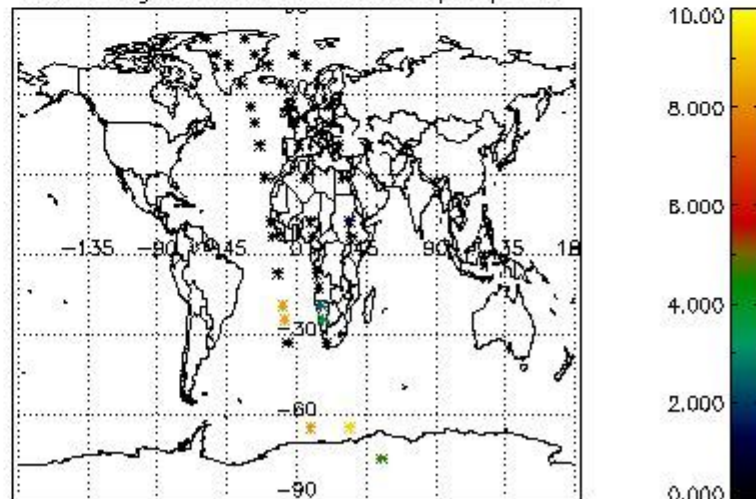
Percentage of datation errors per profile



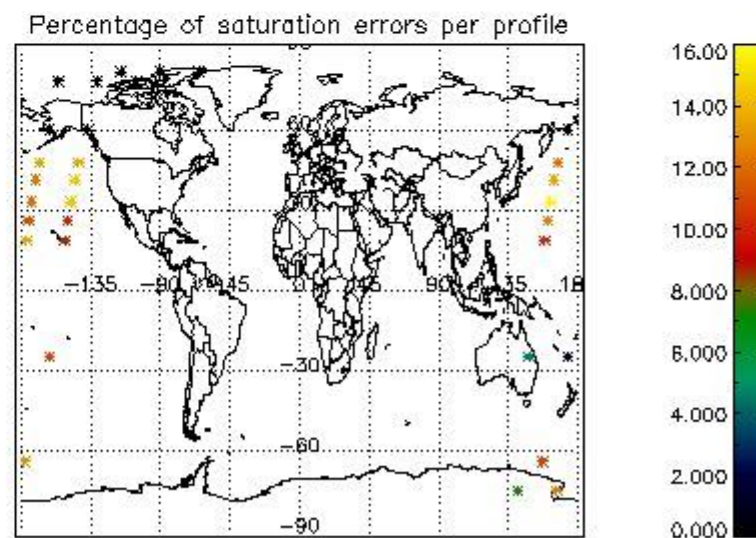
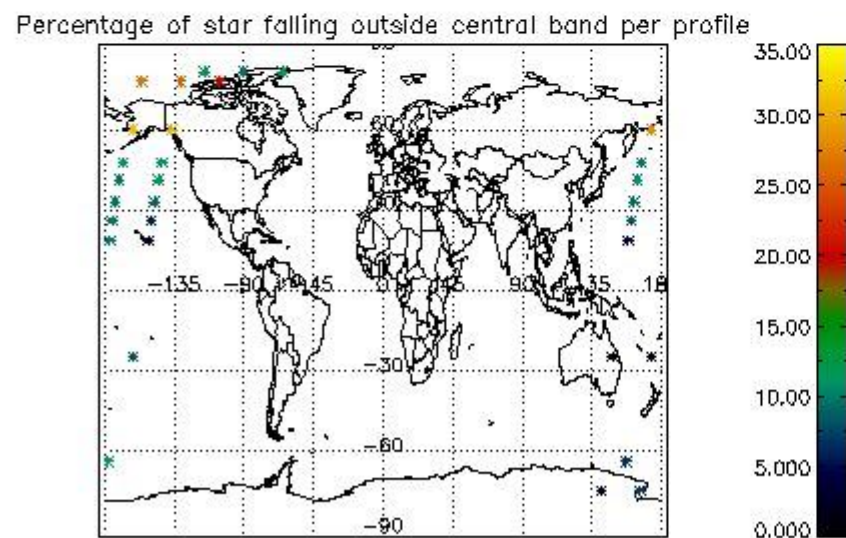
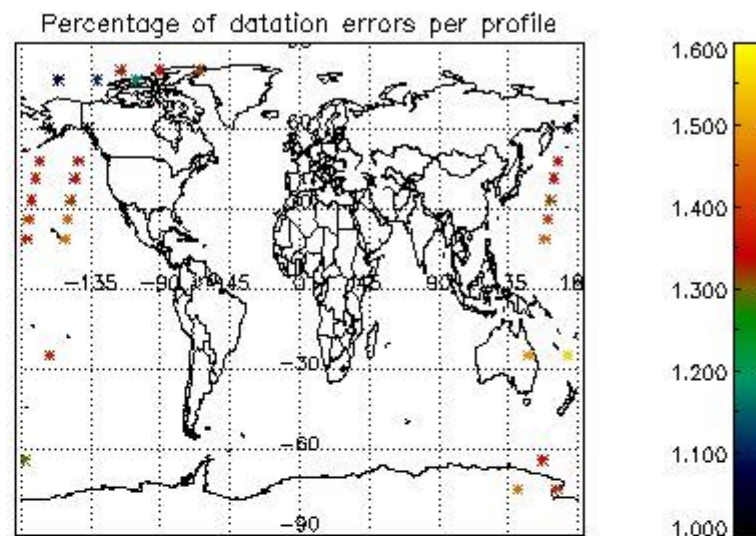
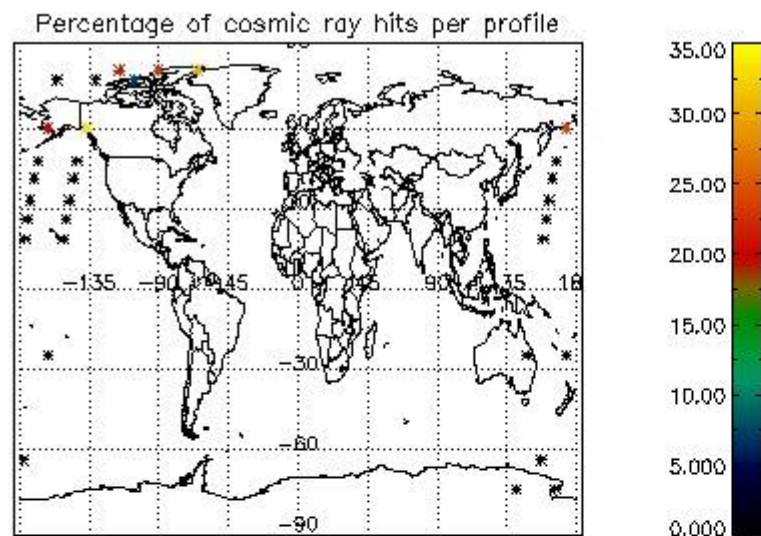
Percentage of star falling outside central band per profile



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

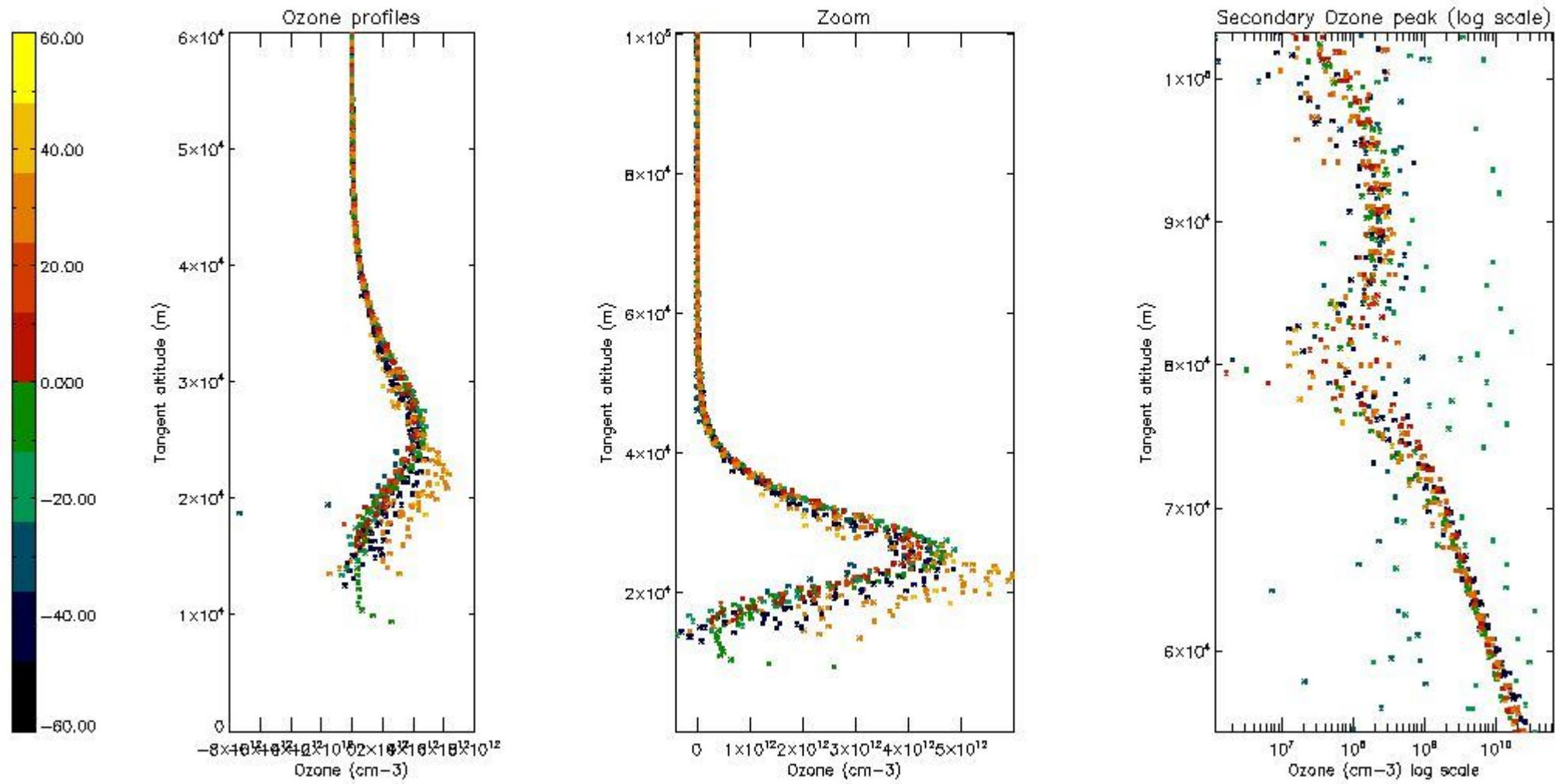
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	20

STD < 10	17
STD < 5	11

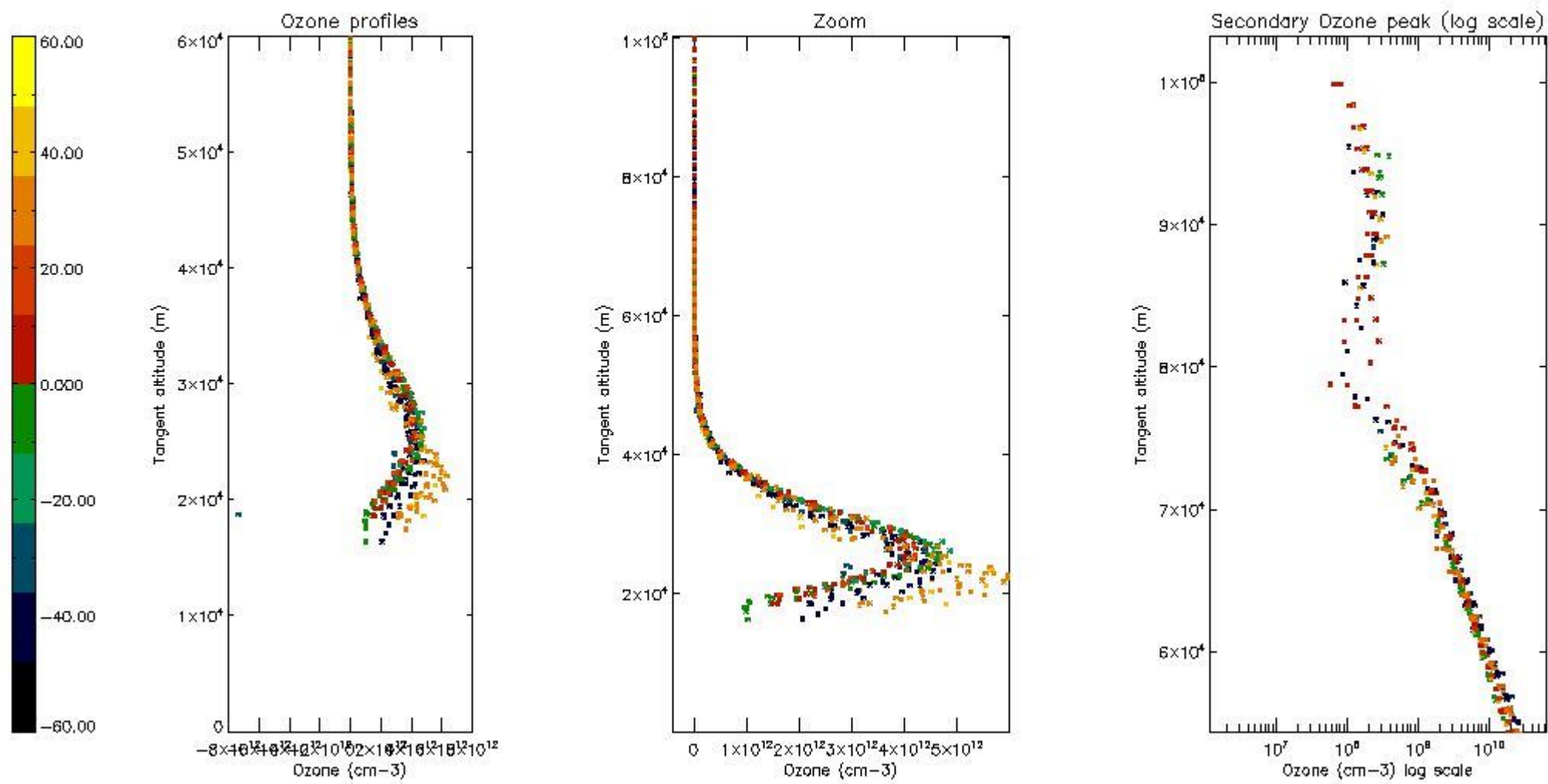
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



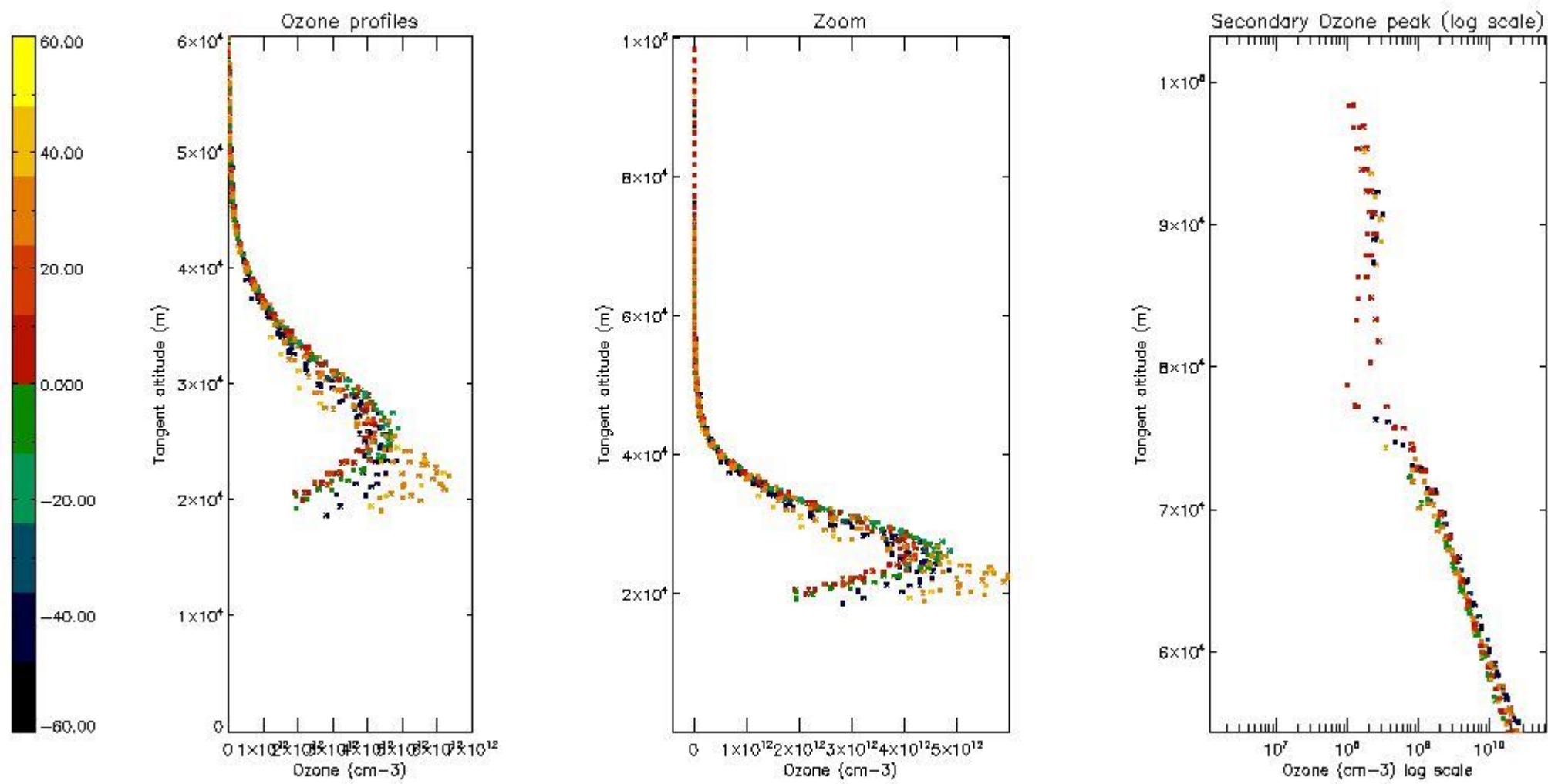
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



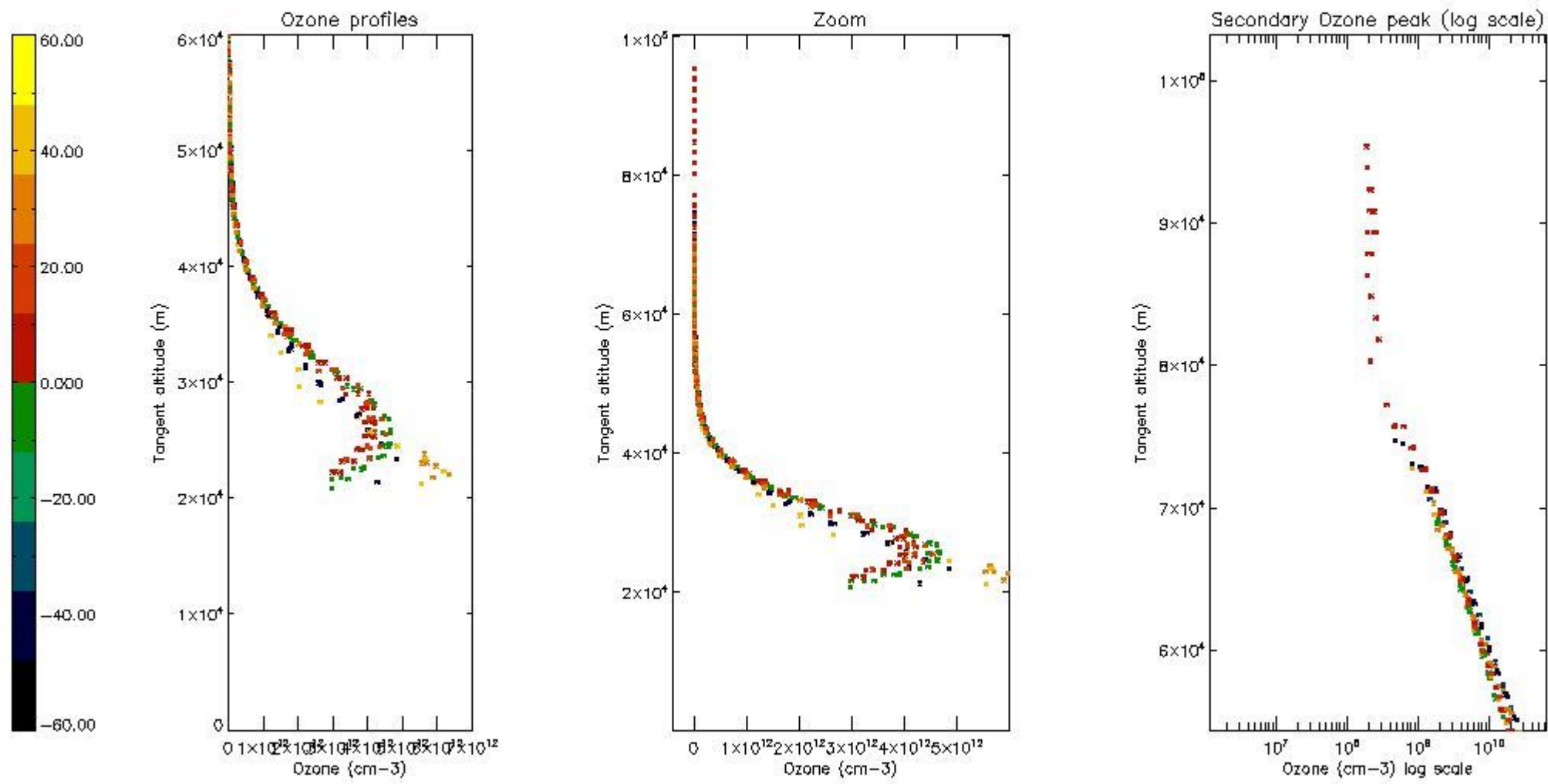
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



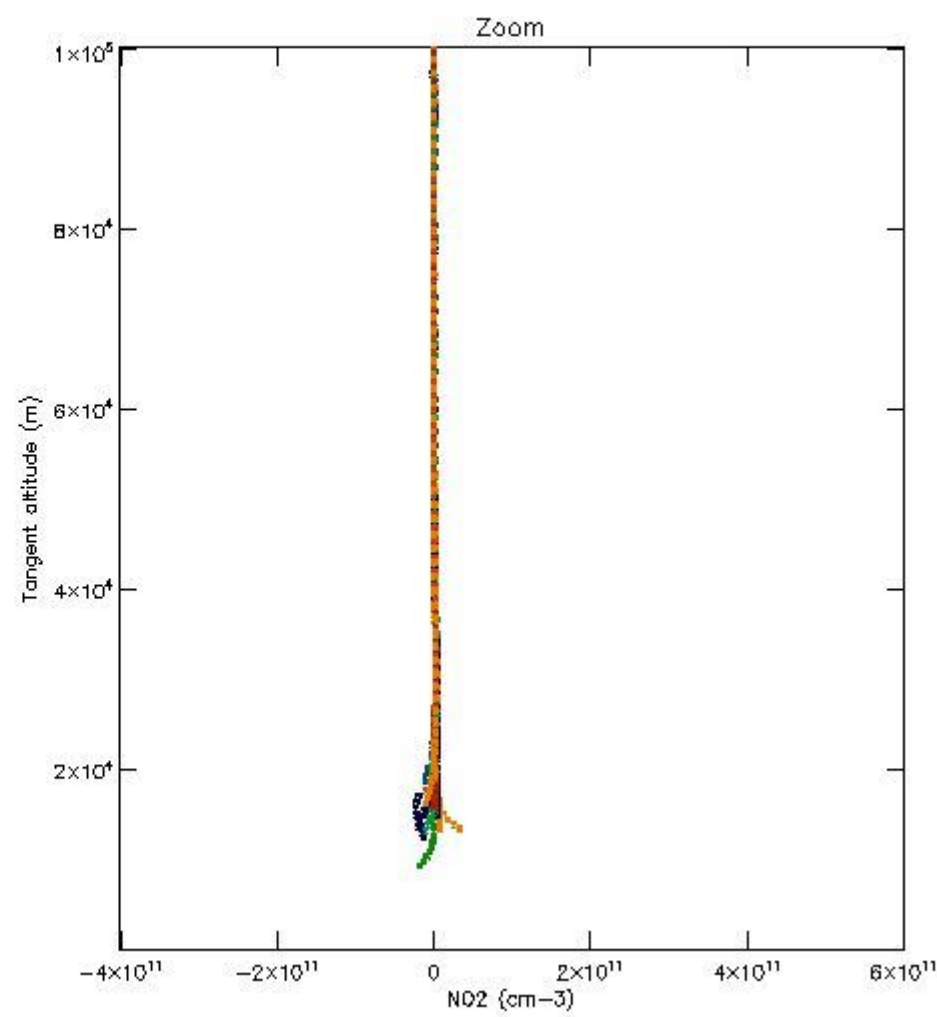
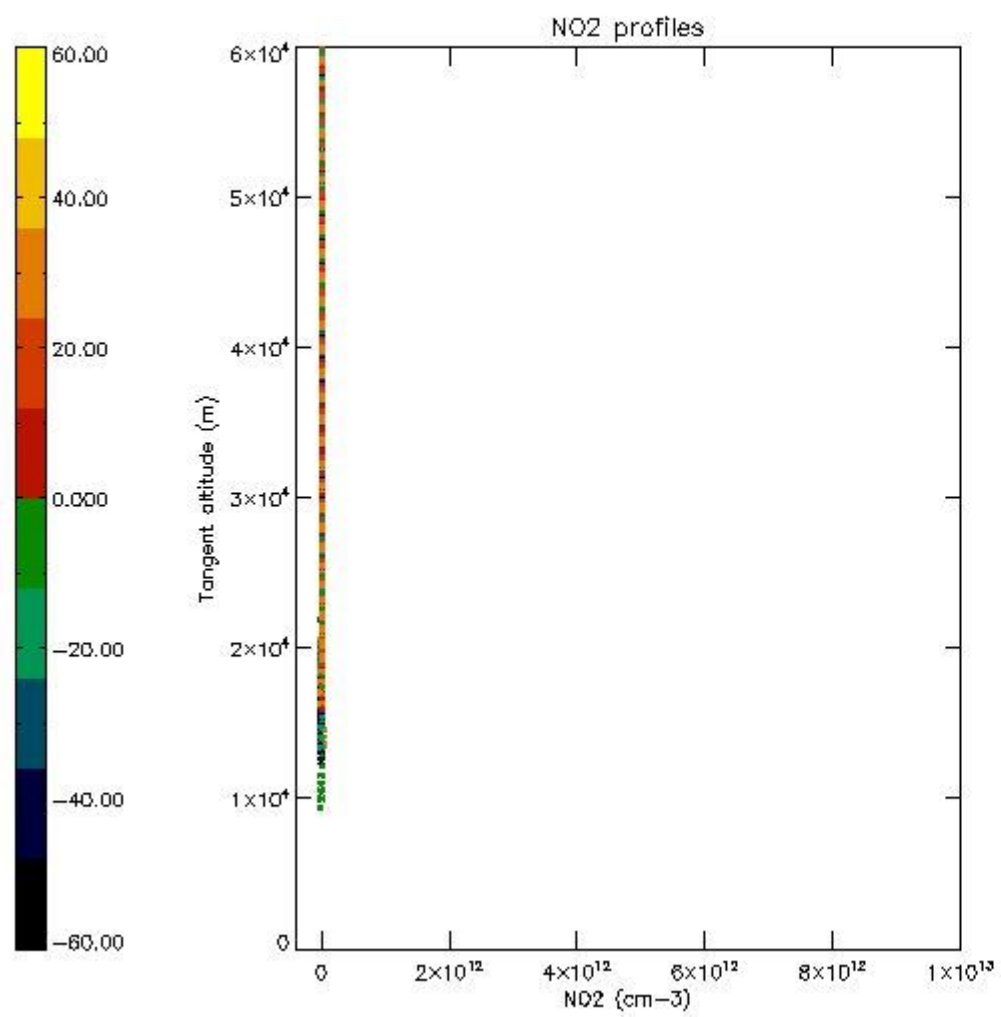
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



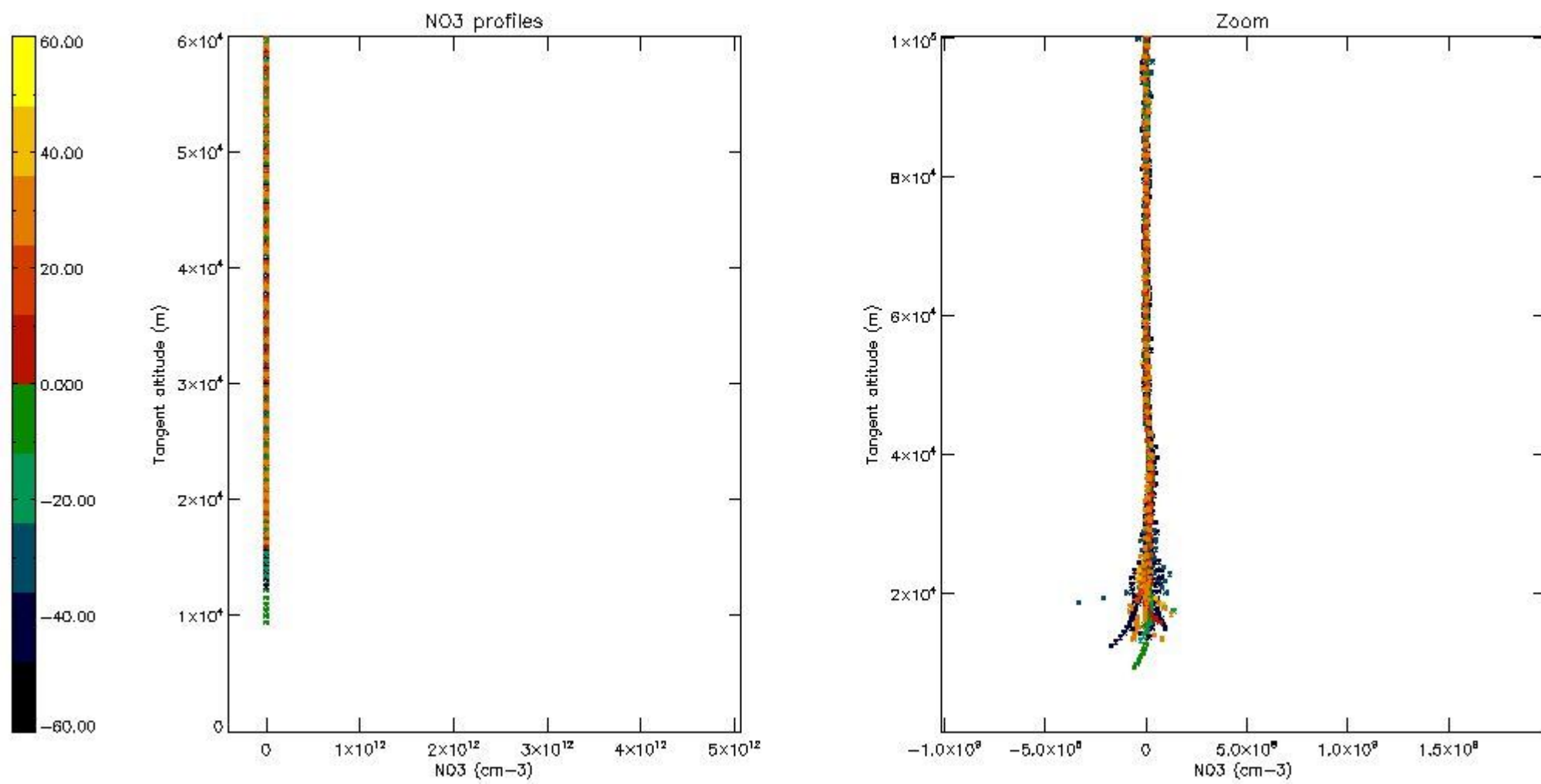
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



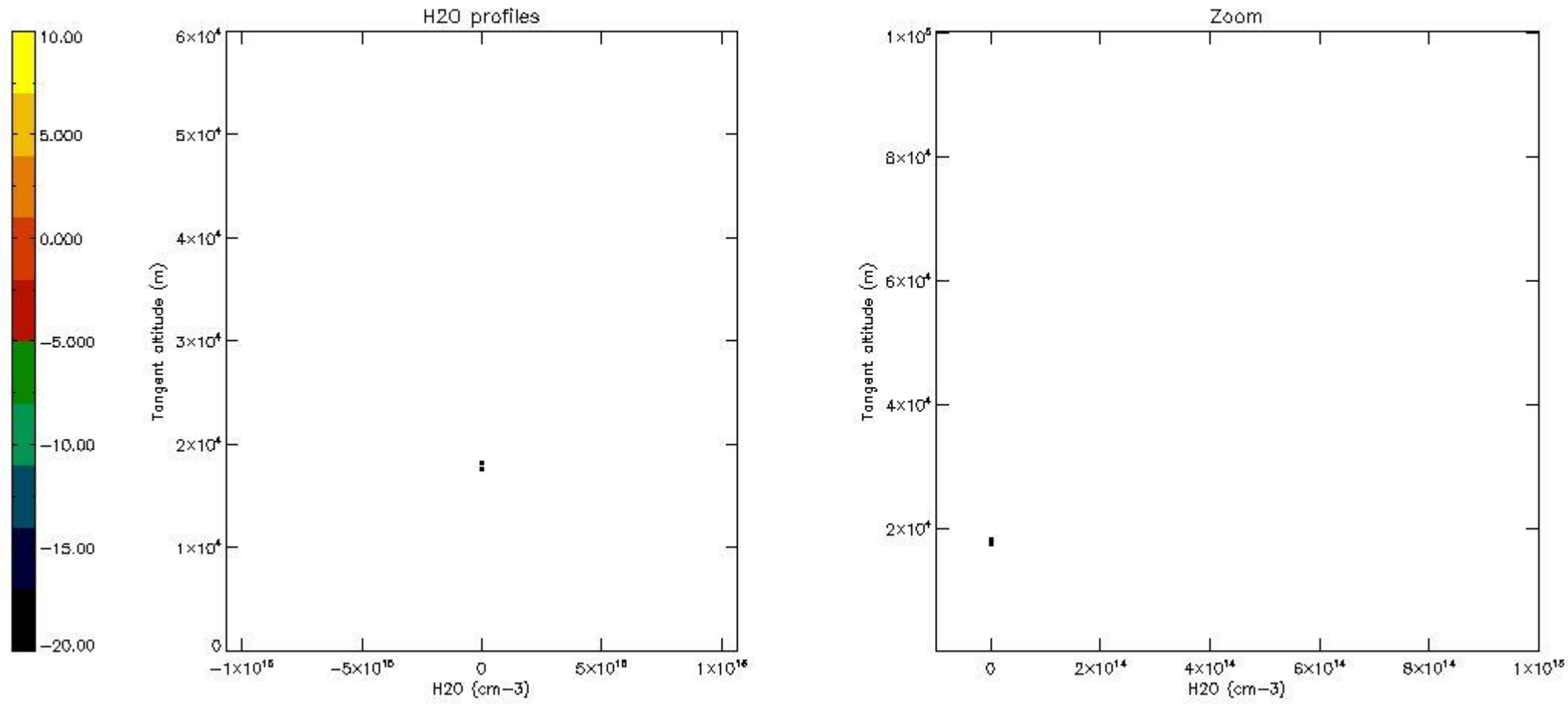
5.7 Plot NO3 profiles for all STD (dark without errors)

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	02-FEB-2007 19:34:50
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-FEB-2007 19:34:50
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-FEB-2007 19:34:50

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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[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	22APR2013 13:16:25
Data source version	GOMOS/6.01
Start time of products	02-02-2007 (02FEB2007 00:00:00)
Stop time of products	03-02-2007 (03FEB2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	73
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

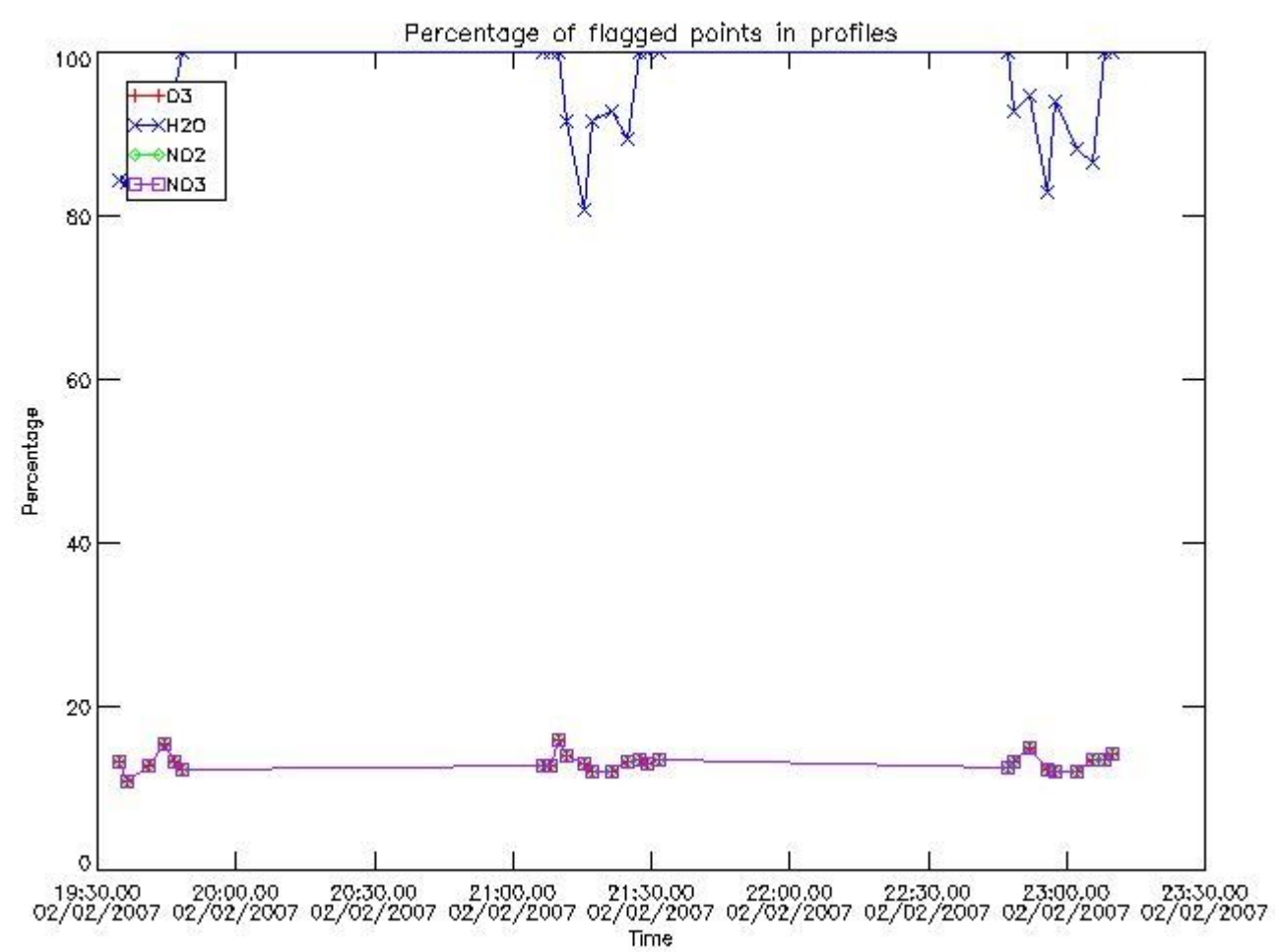
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070202_193450_000000392055_00157_25762_6522.N1	02-FEB-2007 19:34:50	Dark	38.500	43	Alp TrA	1.9100	4250.0	77	25762	No
2	GOM_NL__2PRFIN20070202_193624_000000482055_00157_25762_6523.N1	02-FEB-2007 19:36:24	Dark	47.500	4	Alp1Cen	-0.010000	5800.0	95	25762	No
3	GOM_NL__2PRFIN20070202_194100_000000402055_00157_25762_6524.N1	02-FEB-2007 19:41:00	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	25762	No
4	GOM_NL__2PRFIN20070202_194425_000000372055_00157_25762_6525.N1	02-FEB-2007 19:44:25	Dark	36.500	29	Bet Car	1.6720	10200.	73	25762	No
5	GOM_NL__2PRFIN20070202_194648_000000422055_00157_25762_6526.N1	02-FEB-2007 19:46:48	Dark	42.000	71	Iot Car	2.2460	7700.0	84	25762	No
6	GOM_NL__2PRFIN20070202_194832_000000422055_00157_25762_6527.N1	02-FEB-2007 19:48:32	Dark	41.500	46	Del Vel	1.9540	10600.	83	25762	No
7	GOM_NL__2PRFIN20070202_195103_000000412055_00157_25762_6528.N1	02-FEB-2007 19:51:03	Straylight	40.500	34	Gam2Vel	1.7930	23000.	81	25762	No
8	GOM_NL__2PRFIN20070202_195308_000000392055_00157_25762_6529.N1	02-FEB-2007 19:53:08	Straylight	39.000	70	Zet Pup	2.2460	39000.	78	25762	No
9	GOM_NL__2PRFIN20070202_195429_000000412055_00157_25762_6530.N1	02-FEB-2007 19:54:29	Straylight	41.000	117	Pi Pup	2.7060	3800.0	82	25762	No
10	GOM_NL__2PRFIN20070202_195655_000000422055_00157_25762_6531.N1	02-FEB-2007 19:56:55	Straylight	42.000	23	21Eps CMa	1.5020	26000.	84	25762	No
11	GOM_NL__2PRFIN20070202_195818_000000382055_00157_25762_6532.N1	02-FEB-2007 19:58:18	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	25762	No
12	GOM_NL__2PRFIN20070202_200027_000000432055_00157_25762_6533.N1	02-FEB-2007 20:00:27	Straylight	42.500	1	9Alp CMa	-1.4400	11000.	85	25762	No
13	GOM_NL__2PRFIN20070202_200611_000000502055_00157_25762_6534.N1	02-FEB-2007 20:06:11	Twilight	49.500	8	10Alp CMI	0.40000	6500.0	99	25762	No
14	GOM_NL__2PRFIN20070202_200941_000000372055_00157_25762_6535.N1	02-FEB-2007 20:09:41	Bright	37.000	44	24Gam Gem	1.9280	11000.	74	25762	No
15	GOM_NL__2PRFIN20070202_201131_000000382055_00157_25762_6536.N1	02-FEB-2007 20:11:31	Bright	37.500	151	13Mu Gem	2.8900	3000.0	75	25762	No
16	GOM_NL__2PRFIN20070202_201351_000000382055_00157_25762_6537.N1	02-FEB-2007 20:13:51	Bright	38.000	24	66Alp Gem	1.5800	10200.	76	25762	No
17	GOM_NL__2PRFIN20070202_201551_000000352055_00157_25762_6538.N1	02-FEB-2007 20:15:51	Bright	35.000	107	37The Aur	2.6490	11000.	70	25762	No
18	GOM_NL__2PRFIN20070202_201755_000000352055_00157_25762_6539.N1	02-FEB-2007 20:17:55	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	25762	No
19	GOM_NL__2PRFIN20070202_203005_000000372055_00157_25762_6540.N1	02-FEB-2007 20:30:05	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	25762	No
20	GOM_NL__2PRFIN20070202_204118_000000392055_00157_25762_6541.N1	02-FEB-2007 20:41:18	Bright	38.500	69	33Gam Dra	2.2310	3800.0	77	25762	No
21	GOM_NL__2PRFIN20070202_204445_000000372055_00157_25762_6542.N1	02-FEB-2007 20:44:45	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	25762	No
22	GOM_NL__2PRFIN20070202_205125_000000332055_00157_25762_6543.N1	02-FEB-2007 20:51:25	Bright	32.500	168	17Zet Aql	2.9860	11000.	65	25762	No
23	GOM_NL__2PRFIN20070202_205510_000000382055_00157_25762_6544.N1	02-FEB-2007 20:55:10	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	25762	No
24	GOM_NL__2PRFIN20070202_210420_000000422055_00157_25762_6545.N1	02-FEB-2007 21:04:20	Twilight	41.500	167	10Gam2Sgr	2.9840	4500.0	83	25762	No
25	GOM_NL__2PRFIN20070202_210643_000000402055_00157_25762_6546.N1	02-FEB-2007 21:06:43	Dark	40.000	25	35Lam Sco	1.6200	28000.	80	25762	No
26	GOM_NL__2PRFIN20070202_210810_000000402055_00157_25762_6547.N1	02-FEB-2007 21:08:10	Dark	40.000	40	The Sco	1.8590	7100.0	80	25762	No
27	GOM_NL__2PRFIN20070202_211002_000000362055_00157_25762_6548.N1	02-FEB-2007 21:10:02	Dark	35.500	147	Alp Ara	2.8770	26000.	71	25762	No
28	GOM_NL__2PRFIN20070202_211135_000000372055_00157_25762_6549.N1	02-FEB-2007 21:11:35	Dark	36.500	141	Bet Ara	2.8400	4600.0	73	25762	No
29	GOM_NL__2PRFIN20070202_211526_000000402055_00158_25763_6538.N1	02-FEB-2007 21:15:26	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	25763	No
30	GOM_NL__2PRFIN20070202_211701_000000432055_00158_25763_6539.N1	02-FEB-2007 21:17:01	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	25763	No
31	GOM_NL__2PRFIN20070202_212136_000000432055_00158_25763_6540.N1	02-FEB-2007 21:21:36	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	25763	No
32	GOM_NL__2PRFIN20070202_212501_000000392055_00158_25763_6541.N1	02-FEB-2007 21:25:01	Dark	38.500	29	Bet Car	1.6720	10200.	77	25763	No
33	GOM_NL__2PRFIN20070202_212724_000000382055_00158_25763_6542.N1	02-FEB-2007 21:27:24	Dark	37.500	71	Iot Car	2.2460	7700.0	75	25763	No
34	GOM_NL__2PRFIN20070202_212908_000000392055_00158_25763_6543.N1	02-FEB-2007 21:29:08	Dark	39.000	46	Del Vel	1.9540	10600.	78	25763	No
35	GOM_NL__2PRFIN20070202_213139_000000382055_00158_25763_6544.N1	02-FEB-2007 21:31:39	Dark	37.500	34	Gam2Vel	1.7930	23000.	75	25763	No
36	GOM_NL__2PRFIN20070202_213344_000000412055_00158_25763_6545.N1	02-FEB-2007 21:33:44	Straylight	40.500	70	Zet Pup	2.2460	39000.	81	25763	No
37	GOM_NL__2PRFIN20070202_213505_000000392055_00158_25763_6546.N1	02-FEB-2007 21:35:05	Straylight	39.000	117	Pi Pup	2.7060	3800.0	78	25763	No
38	GOM_NL__2PRFIN20070202_213731_000000392055_00158_25763_6547.N1	02-FEB-2007 21:37:31	Straylight	39.000	23	21Eps CMa	1.5020	26000.	78	25763	No
39	GOM_NL__2PRFIN20070202_213854_000000372055_00158_25763_6548.N1	02-FEB-2007 21:38:54	Straylight	37.000	179	24Omi2CMa	3.0320	24000.	74	25763	No
40	GOM_NL__2PRFIN20070202_214103_000000452055_00158_25763_6549.N1	02-FEB-2007 21:41:03	Straylight	45.000	1	9Alp CMa	-1.4400	11000.	90	25763	No
41	GOM_NL__2PRFIN20070202_214647_000000502055_00158_25763_6550.N1	02-FEB-2007 21:46:47	Twilight	50.000	8	10Alp CMI	0.40000	6500.0	100	25763	No
42	GOM_NL__2PRFIN20070202_215016_000000372055_00158_25763_6551.N1	02-FEB-2007 21:50:16	Bright	37.000	44	24Gam Gem	1.9280	11000.	74	25763	No

43	GOM_NL__2PRFIN20070202_215208_000000372055_00158_25763_6552.N1	02-FEB-2007 21:52:08	Bright	36.500	151	13Mu Gem	2.8900	3000.0	73	25763	No
44	GOM_NL__2PRFIN20070202_215427_000000372055_00158_25763_6553.N1	02-FEB-2007 21:54:27	Bright	37.000	24	66Alp Gem	1.5800	10200.	74	25763	No
45	GOM_NL__2PRFIN20070202_215627_000000362055_00158_25763_6554.N1	02-FEB-2007 21:56:27	Bright	36.000	107	37The Aur	2.6490	11000.	72	25763	No
46	GOM_NL__2PRFIN20070202_215831_000000372055_00158_25763_6555.N1	02-FEB-2007 21:58:31	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	25763	No
47	GOM_NL__2PRFIN20070202_221041_000000322055_00158_25763_6556.N1	02-FEB-2007 22:10:41	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	25763	No
48	GOM_NL__2PRFIN20070202_222154_000000372055_00158_25763_6557.N1	02-FEB-2007 22:21:54	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	25763	No
49	GOM_NL__2PRFIN20070202_222521_000000352055_00158_25763_6558.N1	02-FEB-2007 22:25:21	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	25763	No
50	GOM_NL__2PRFIN20070202_223546_000000372055_00158_25763_6559.N1	02-FEB-2007 22:35:46	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	25763	No
51	GOM_NL__2PRFIN20070202_224456_000000382055_00158_25763_6560.N1	02-FEB-2007 22:44:56	Twilight	38.000	167	10Gam2Sgr	2.9840	4500.0	76	25763	No
52	GOM_NL__2PRFIN20070202_224719_000000412055_00158_25763_6561.N1	02-FEB-2007 22:47:19	Dark	41.000	25	35Lam Sco	1.6200	28000.	82	25763	No
53	GOM_NL__2PRFIN20070202_224846_000000422055_00158_25763_6562.N1	02-FEB-2007 22:48:46	Dark	42.000	40	The Sco	1.8590	7100.0	84	25763	No
54	GOM_NL__2PRFIN20070202_225211_000000382055_00158_25763_6563.N1	02-FEB-2007 22:52:11	Dark	37.500	141	Bet Ara	2.8400	4600.0	75	25763	No
55	GOM_NL__2PRFIN20070202_225602_000000422055_00159_25764_6547.N1	02-FEB-2007 22:56:02	Dark	41.500	43	Alp TrA	1.9100	4250.0	83	25764	No
56	GOM_NL__2PRFIN20070202_225737_000000422055_00159_25764_6548.N1	02-FEB-2007 22:57:37	Dark	42.000	4	Alp1Cen	-0.010000	5800.0	84	25764	No
57	GOM_NL__2PRFIN20070202_230213_000000432055_00159_25764_6549.N1	02-FEB-2007 23:02:13	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	25764	No
58	GOM_NL__2PRFIN20070202_230537_000000382055_00159_25764_6550.N1	02-FEB-2007 23:05:37	Dark	37.500	29	Bet Car	1.6720	10200.	75	25764	No
59	GOM_NL__2PRFIN20070202_230801_000000382055_00159_25764_6551.N1	02-FEB-2007 23:08:01	Dark	37.500	71	lot Car	2.2460	7700.0	75	25764	No
60	GOM_NL__2PRFIN20070202_230945_000000402055_00159_25764_6552.N1	02-FEB-2007 23:09:45	Dark	39.500	46	Del Vel	1.9540	10600.	79	25764	No
61	GOM_NL__2PRFIN20070202_231215_000000412055_00159_25764_6553.N1	02-FEB-2007 23:12:15	Straylight	40.500	34	Gam2Vel	1.7930	23000.	81	25764	No
62	GOM_NL__2PRFIN20070202_231420_000000392055_00159_25764_6554.N1	02-FEB-2007 23:14:20	Straylight	38.500	70	Zet Pup	2.2460	39000.	77	25764	No
63	GOM_NL__2PRFIN20070202_231541_000000422055_00159_25764_6555.N1	02-FEB-2007 23:15:41	Straylight	42.000	117	Pi Pup	2.7060	3800.0	84	25764	No
64	GOM_NL__2PRFIN20070202_231807_000000392055_00159_25764_6556.N1	02-FEB-2007 23:18:07	Straylight	39.000	23	21Eps CMa	1.5020	26000.	78	25764	No
65	GOM_NL__2PRFIN20070202_231930_000000382055_00159_25764_6557.N1	02-FEB-2007 23:19:30	Straylight	37.500	179	24Omi2CMa	3.0320	24000.	75	25764	No
66	GOM_NL__2PRFIN20070202_232139_000000472055_00159_25764_6558.N1	02-FEB-2007 23:21:39	Straylight	46.500	1	9Alp CMa	-1.4400	11000.	93	25764	No
67	GOM_NL__2PRFIN20070202_232723_000000482055_00159_25764_6559.N1	02-FEB-2007 23:27:23	Tw_i_and_stray	48.000	8	10Alp CMi	0.40000	6500.0	96	25764	No
68	GOM_NL__2PRFIN20070202_233053_000000372055_00159_25764_6560.N1	02-FEB-2007 23:30:53	Bright	37.000	44	24Gam Gem	1.9280	11000.	74	25764	No
69	GOM_NL__2PRFIN20070202_233244_000000372055_00159_25764_6561.N1	02-FEB-2007 23:32:44	Bright	37.000	151	13Mu Gem	2.8900	3000.0	74	25764	No
70	GOM_NL__2PRFIN20070202_233503_000000382055_00159_25764_6562.N1	02-FEB-2007 23:35:03	Bright	38.000	24	66Alp Gem	1.5800	10200.	76	25764	No
71	GOM_NL__2PRFIN20070202_233703_000000362055_00159_25764_6563.N1	02-FEB-2007 23:37:03	Bright	36.000	107	37The Aur	2.6490	11000.	72	25764	No
72	GOM_NL__2PRFIN20070202_233907_000000352055_00159_25764_6564.N1	02-FEB-2007 23:39:07	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	25764	No
73	GOM_NL__2PRFIN20070202_235117_000000342055_00159_25764_6565.N1	02-FEB-2007 23:51:17	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	25764	No

3. Quality information per product

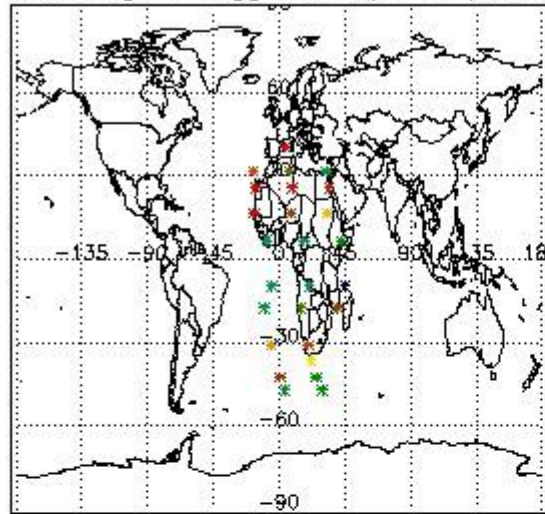
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

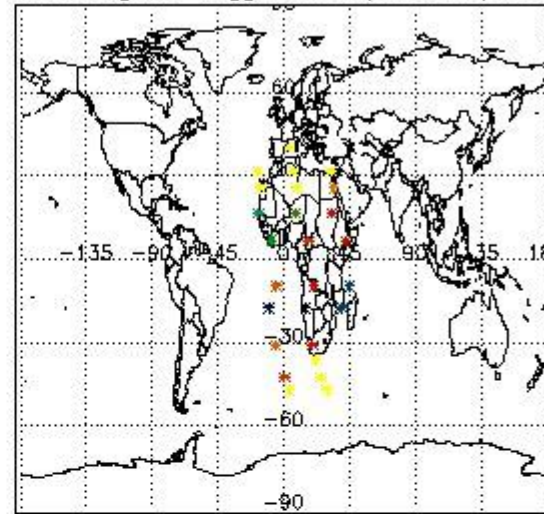


3.2 Plot quality information per product (world map)

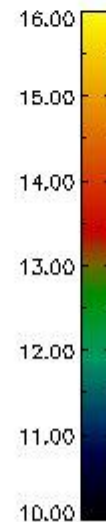
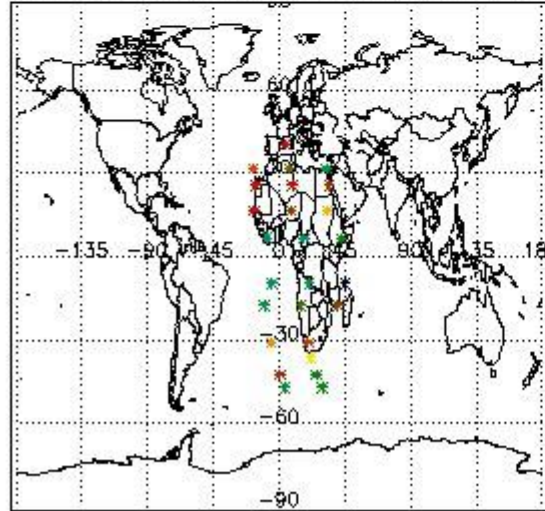
Percentage of flagged data per O3 profile



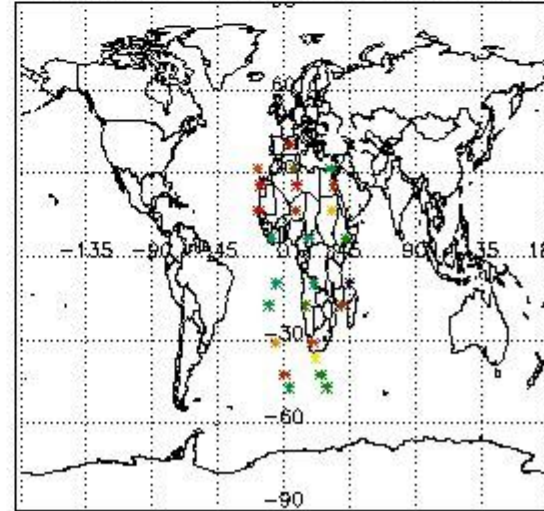
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

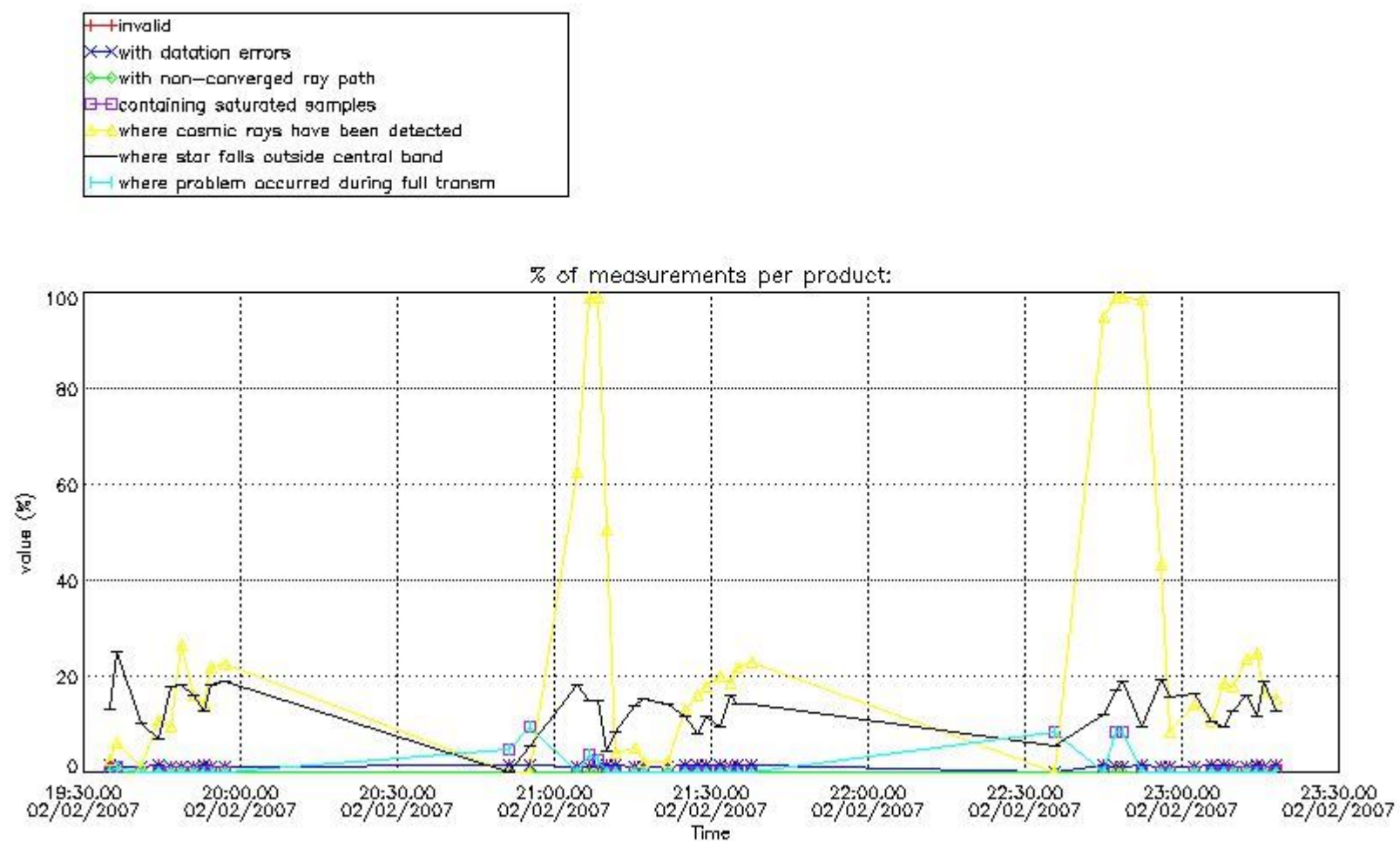


4. Level 1 quality information per product

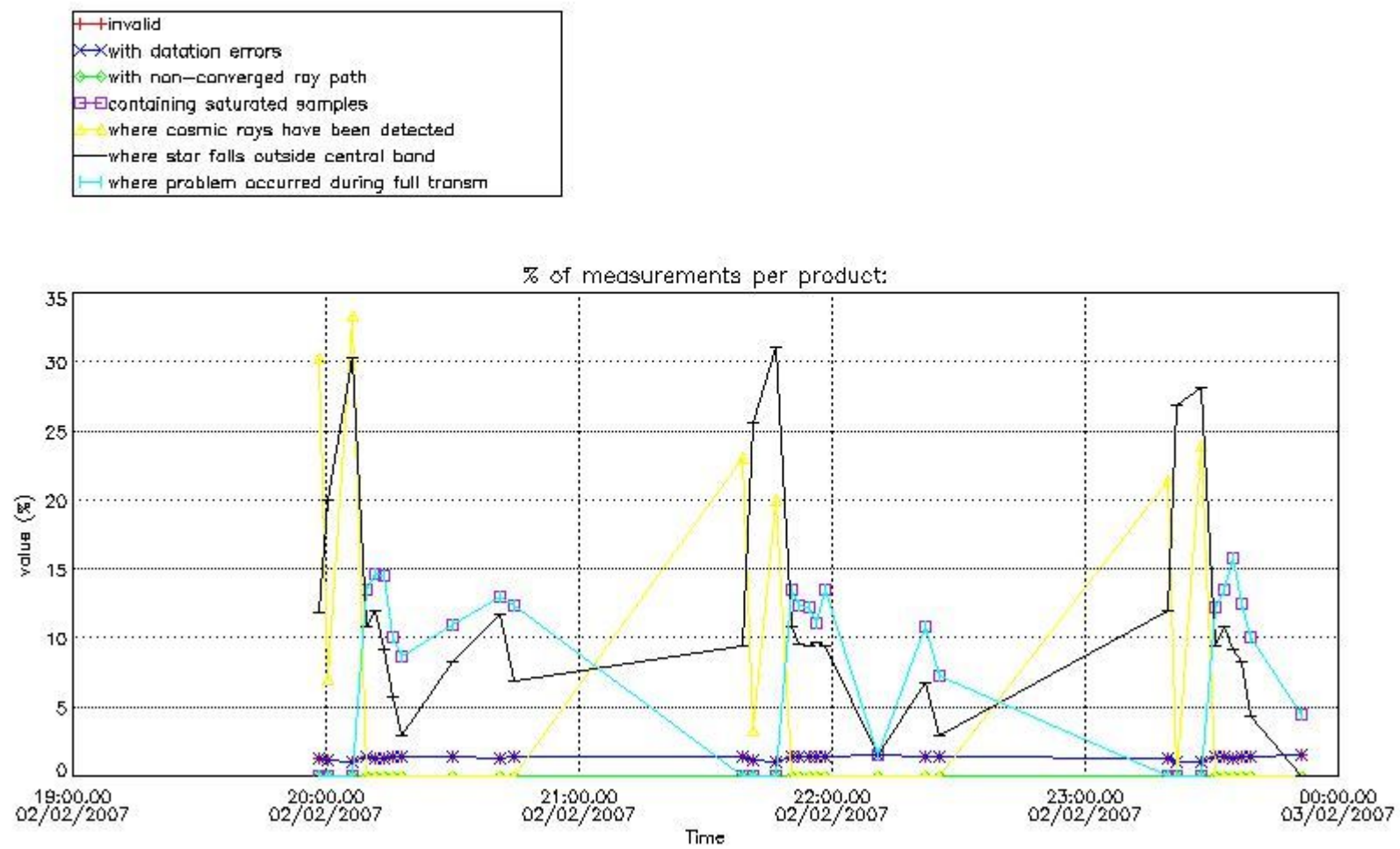
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



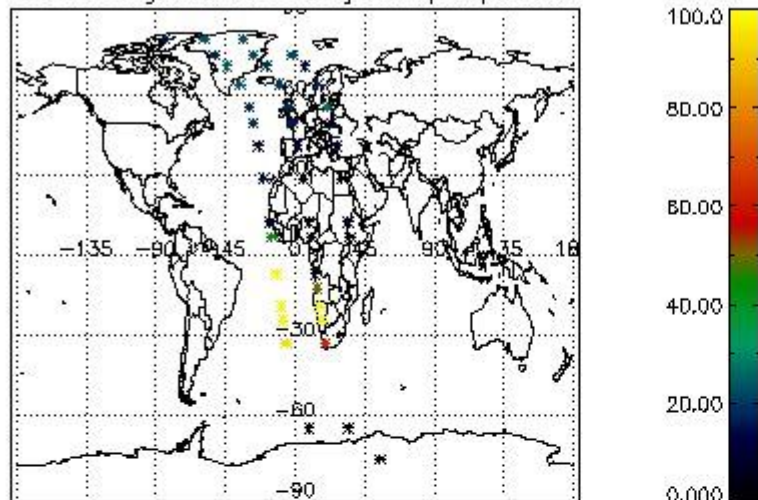
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



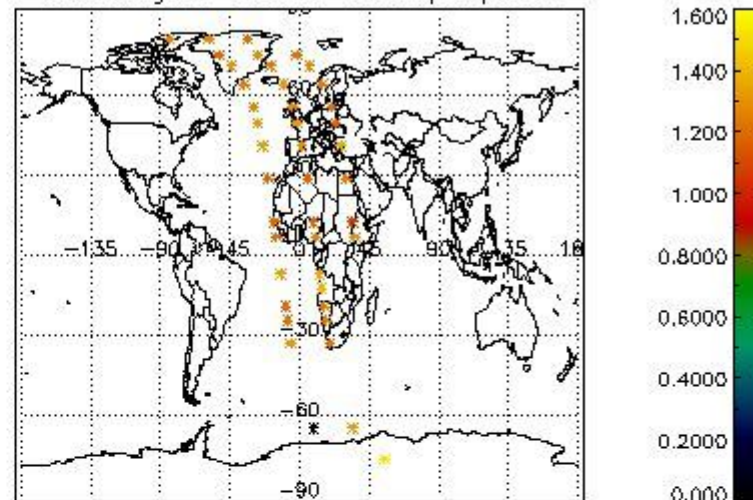
4.2 Plot quality information per product coming from level 1b processing (world map)

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

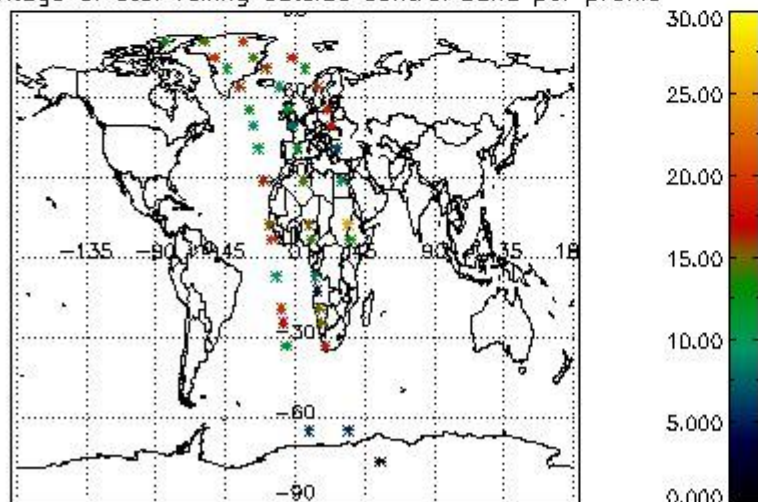
Percentage of cosmic ray hits per profile



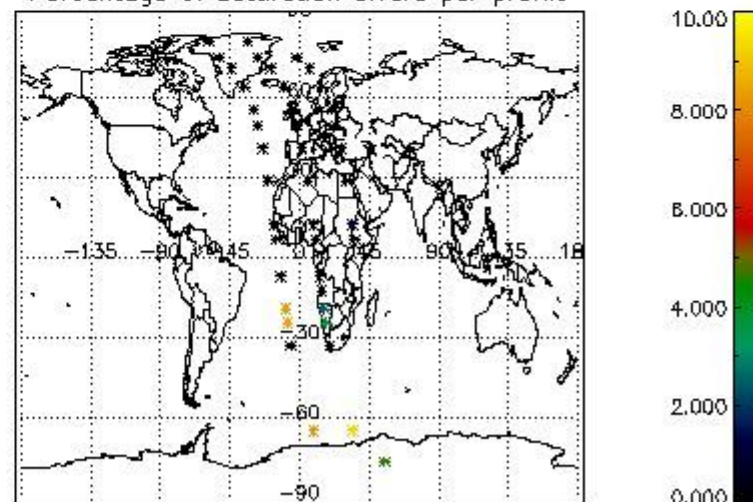
Percentage of datation errors per profile



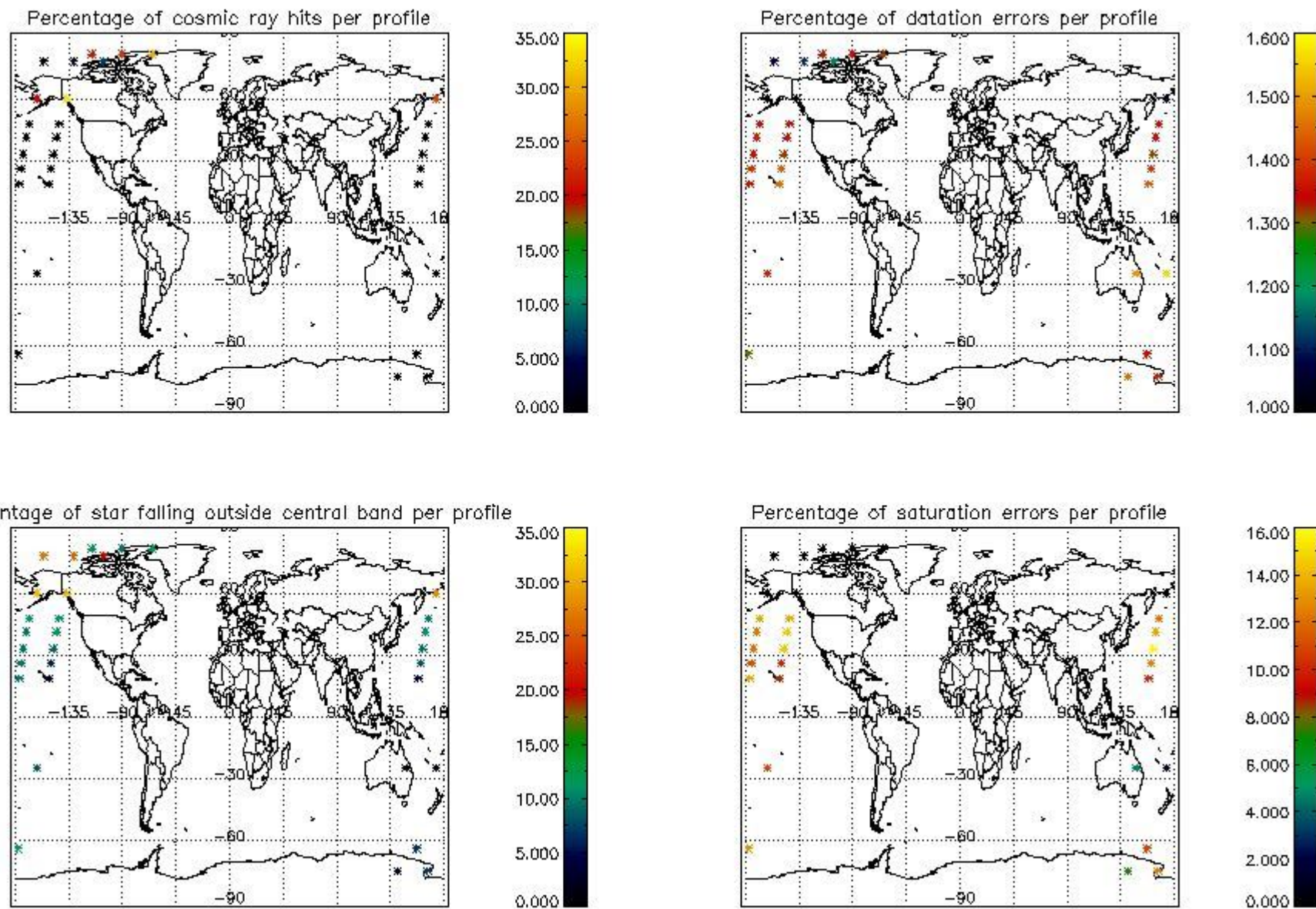
Percentage of star falling outside central band per profile



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

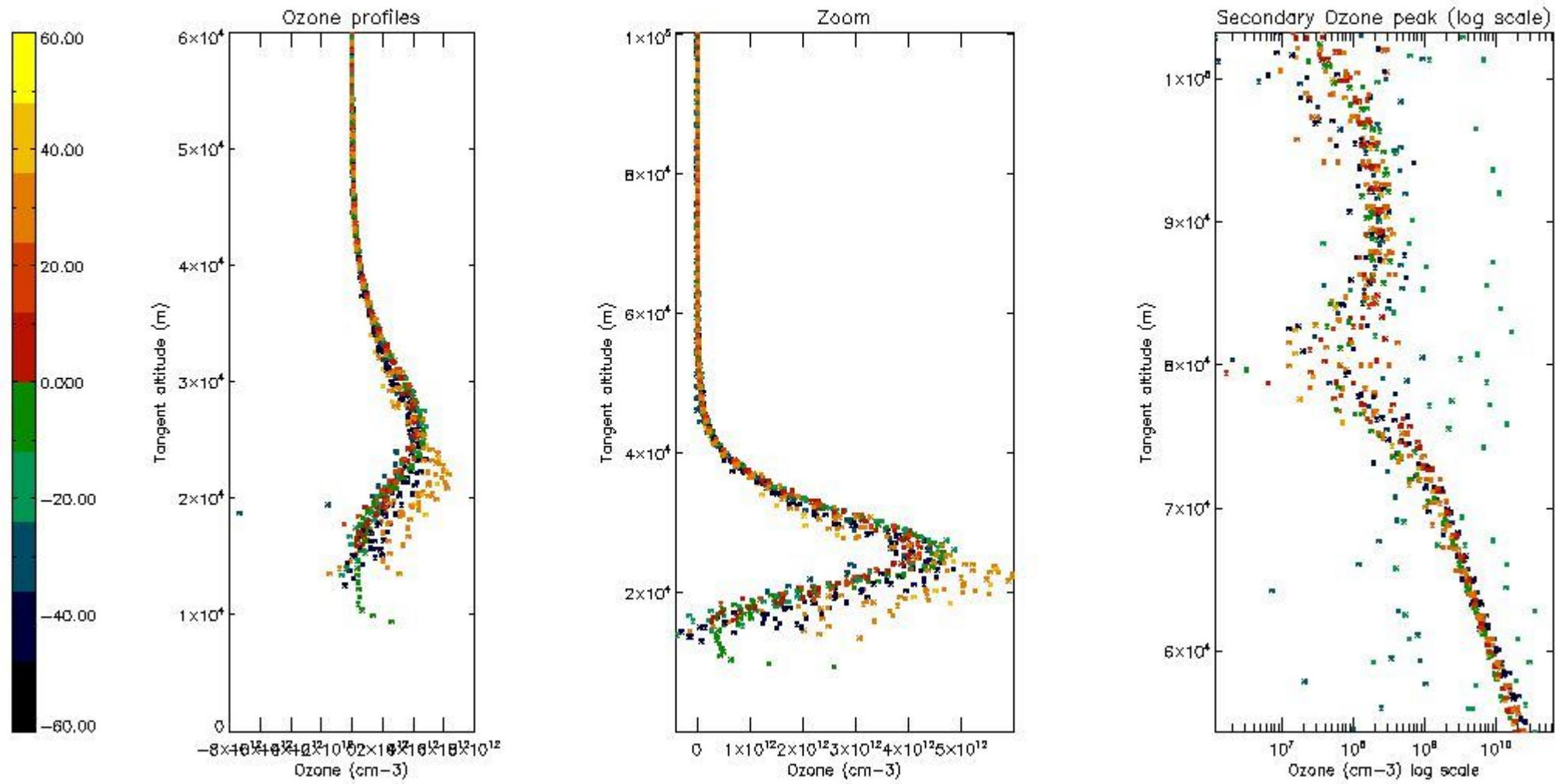
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	20

STD < 10	17
STD < 5	11

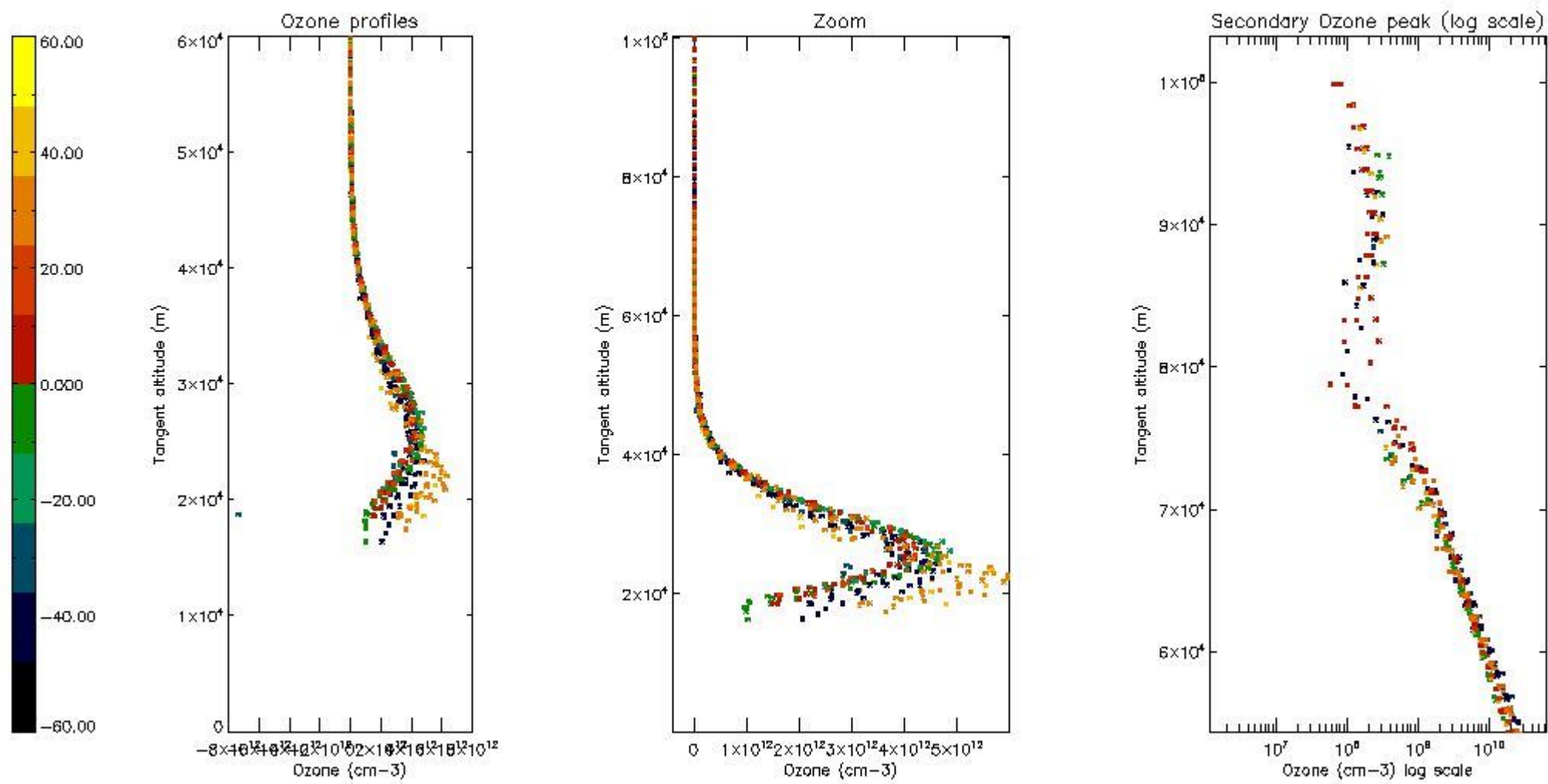
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



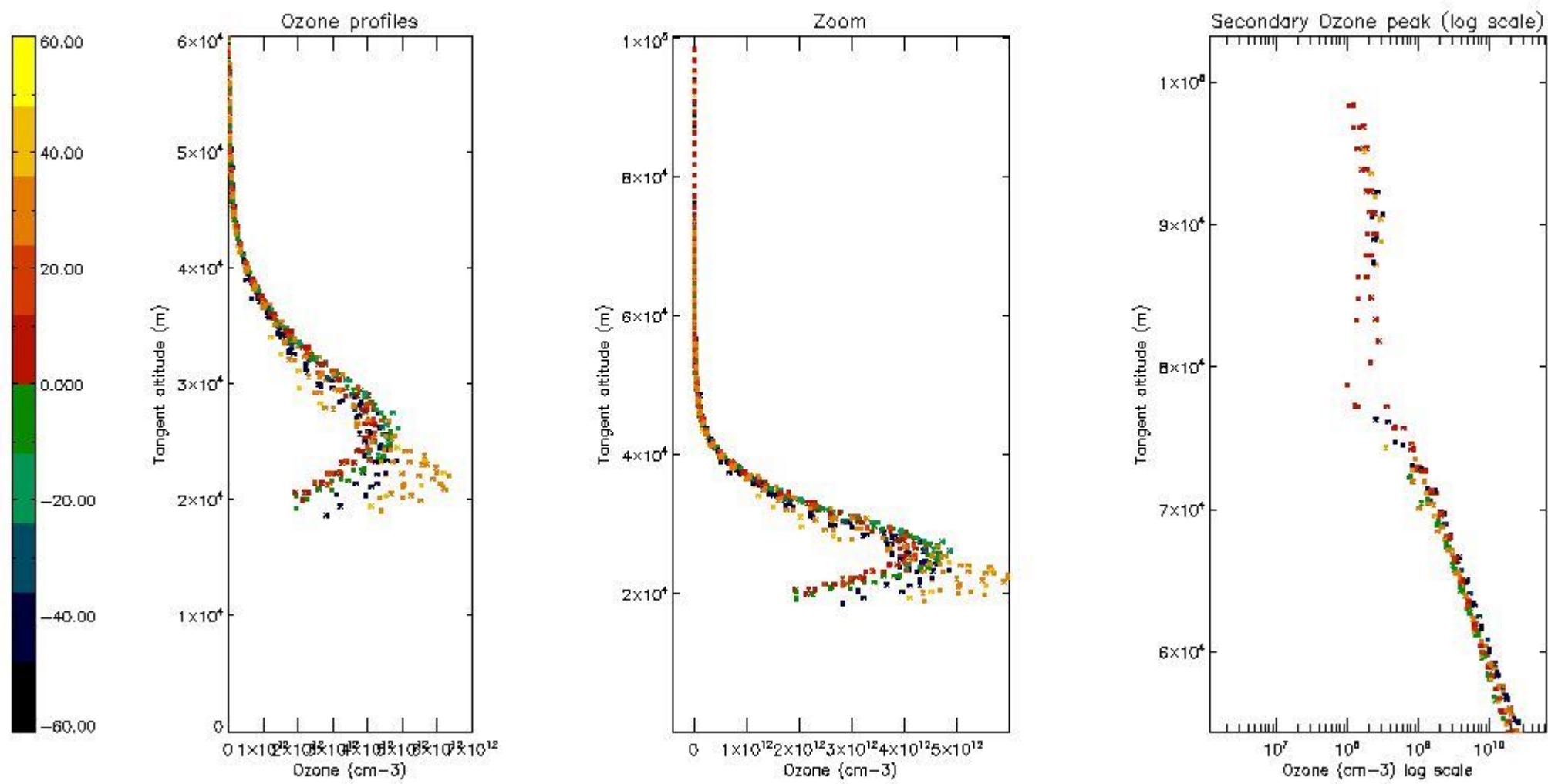
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



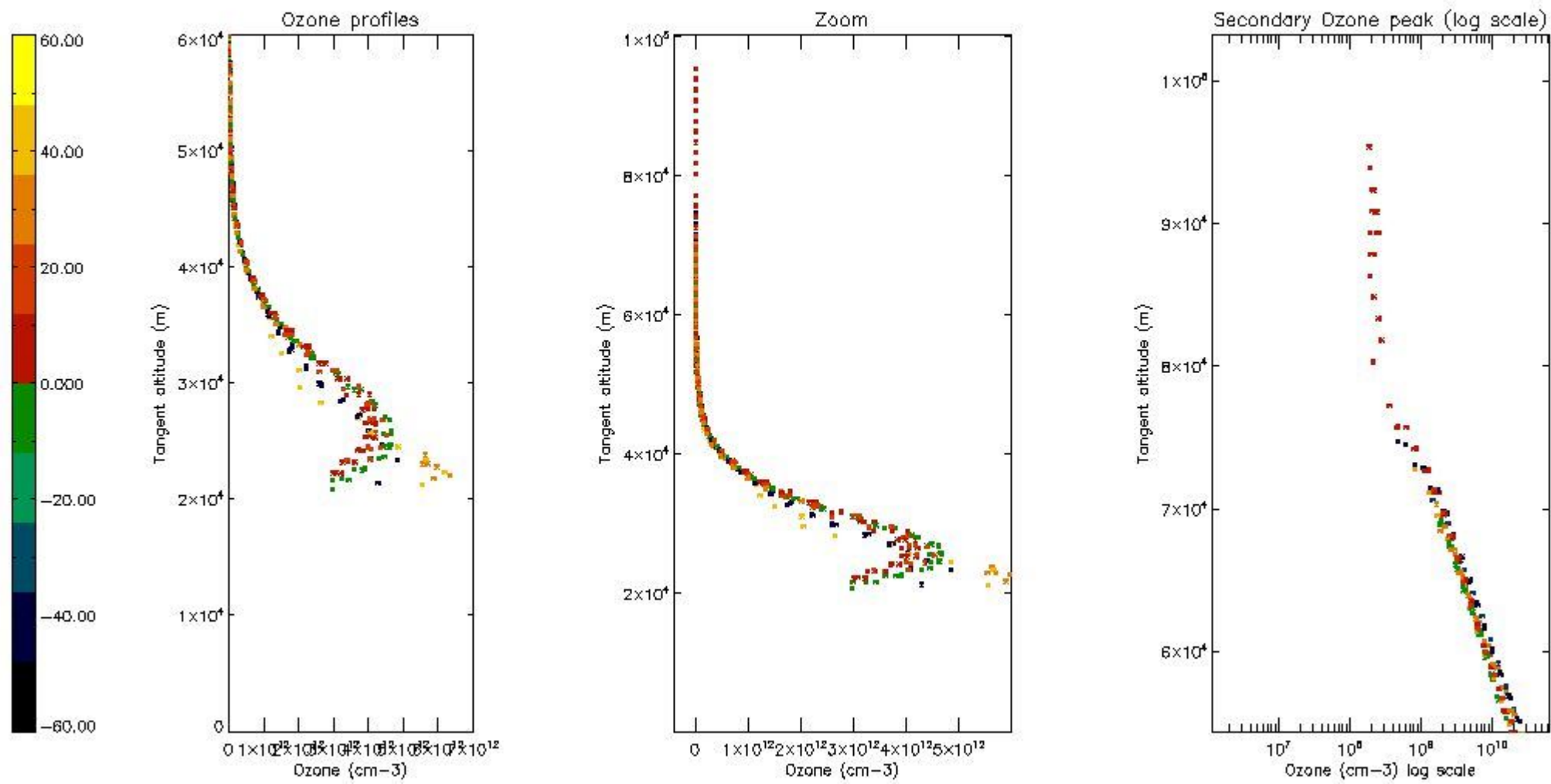
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



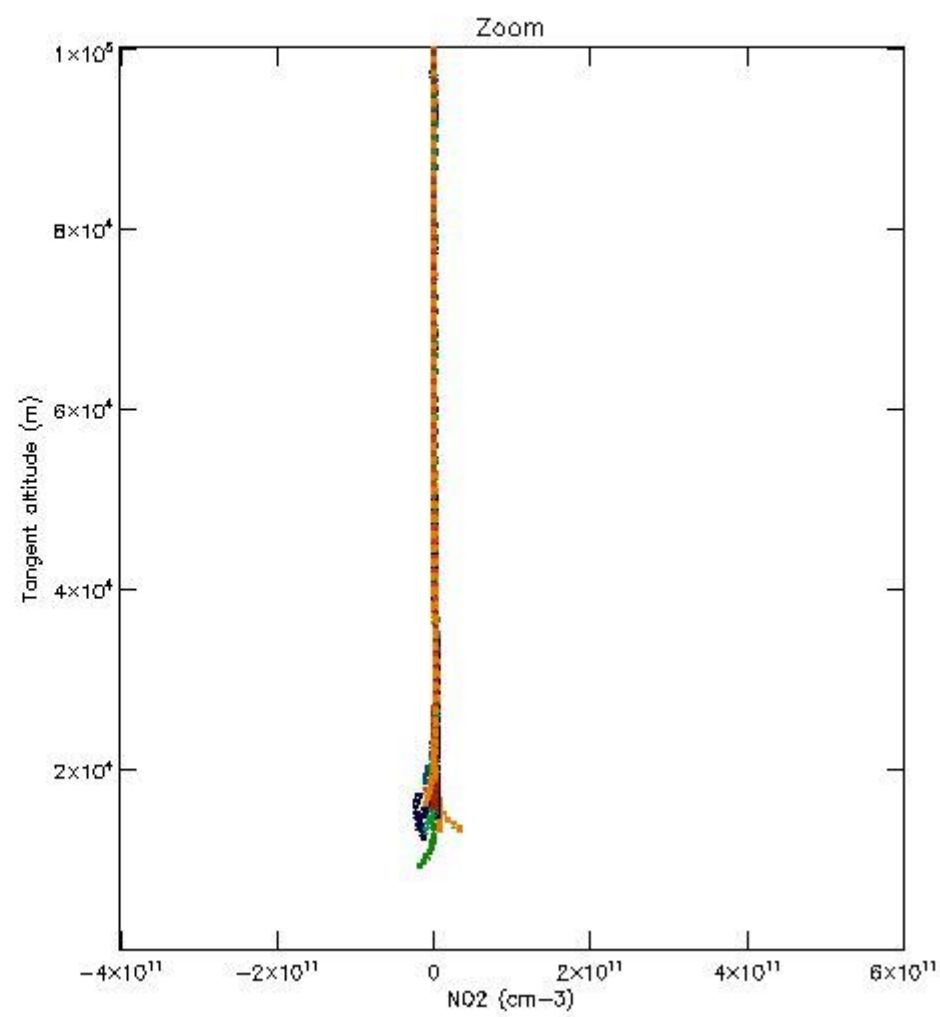
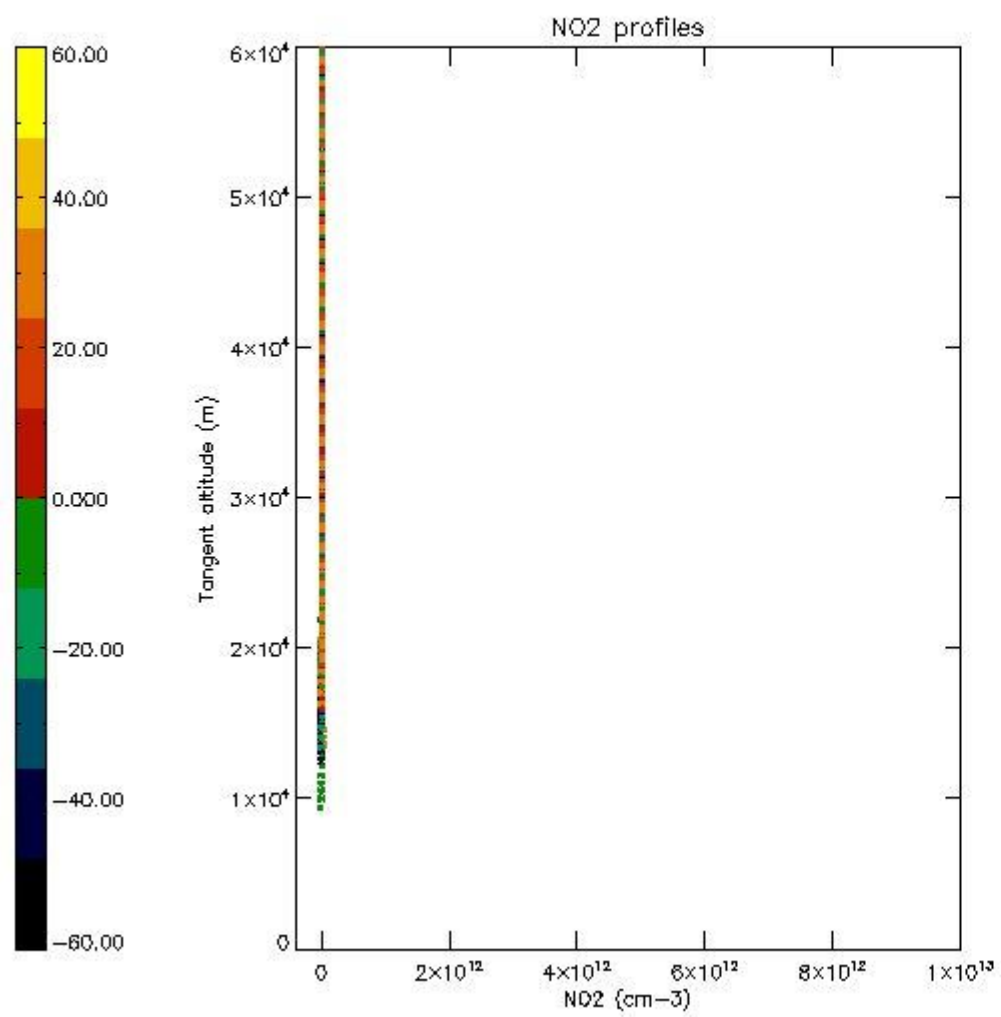
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



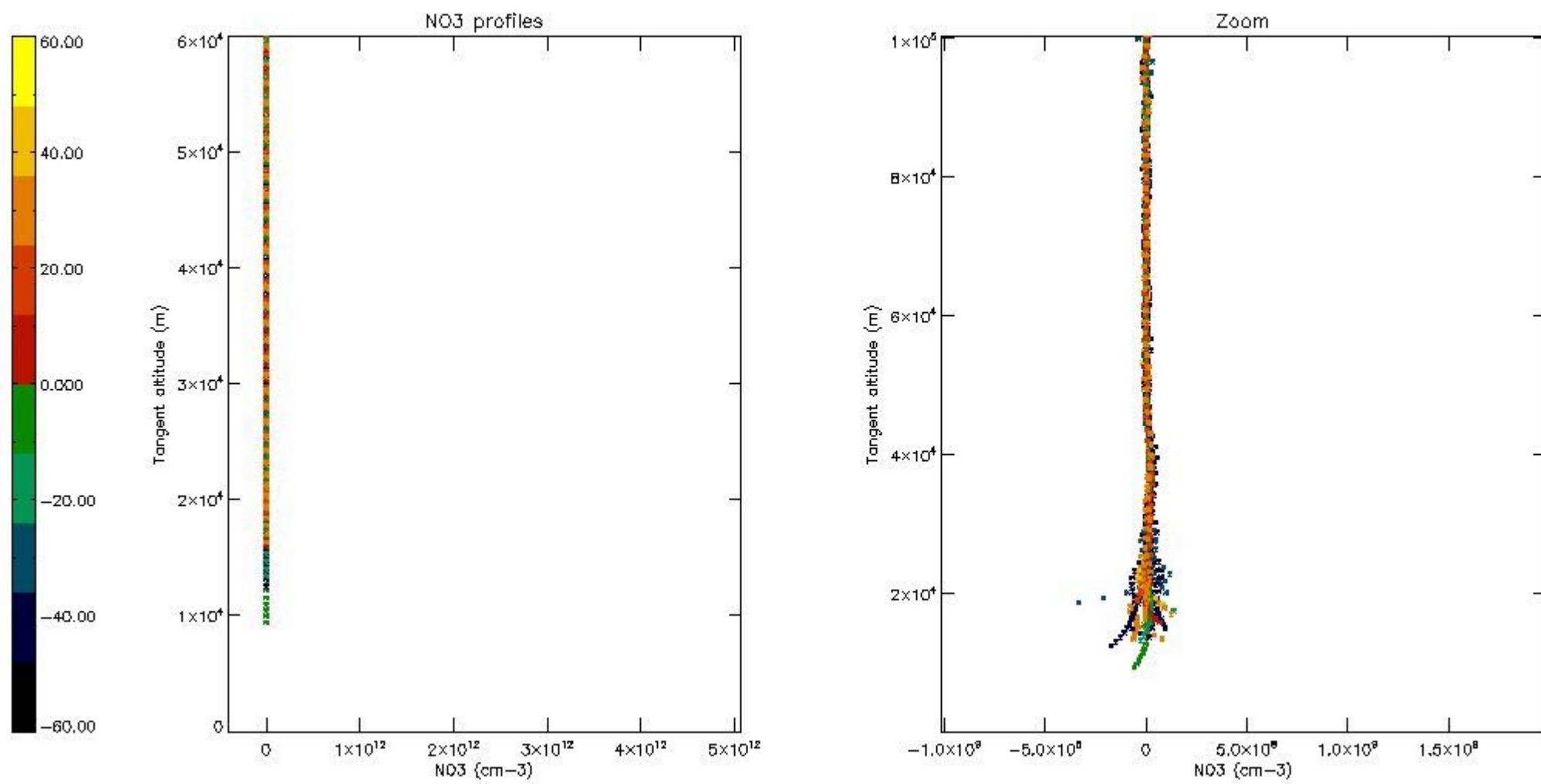
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



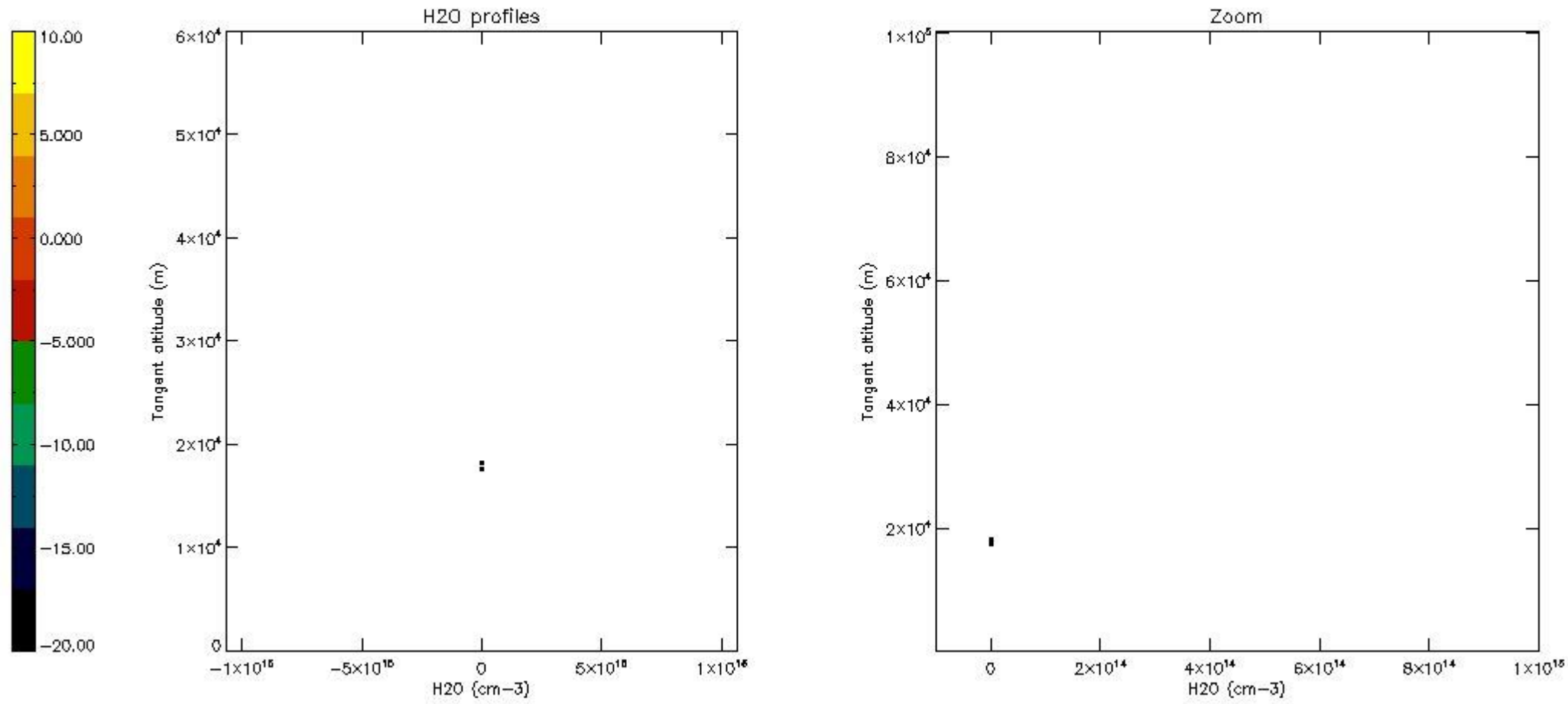
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

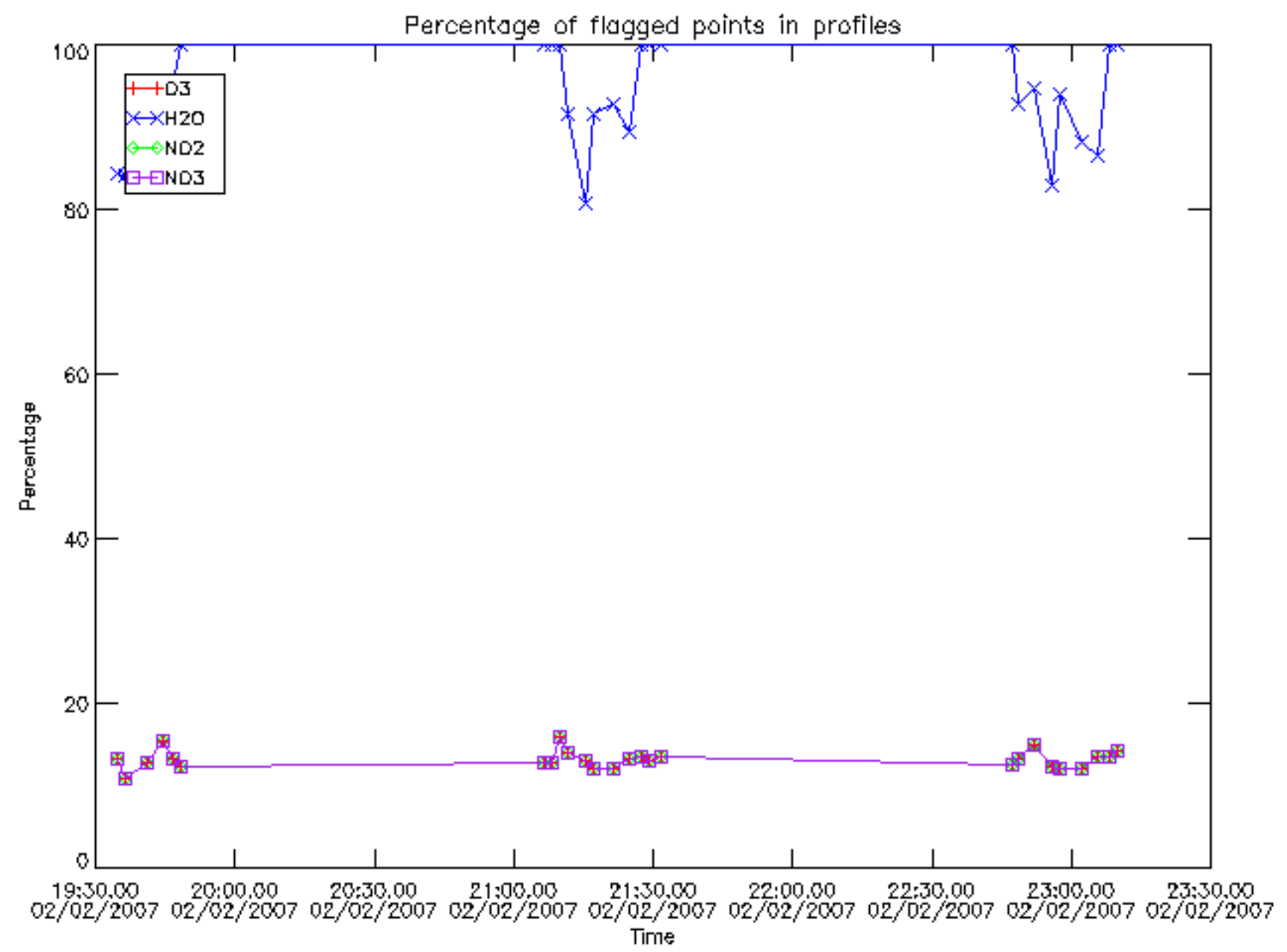
The colorbar represents the latitude.



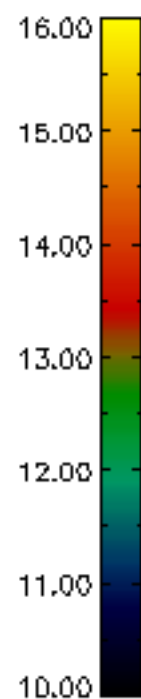
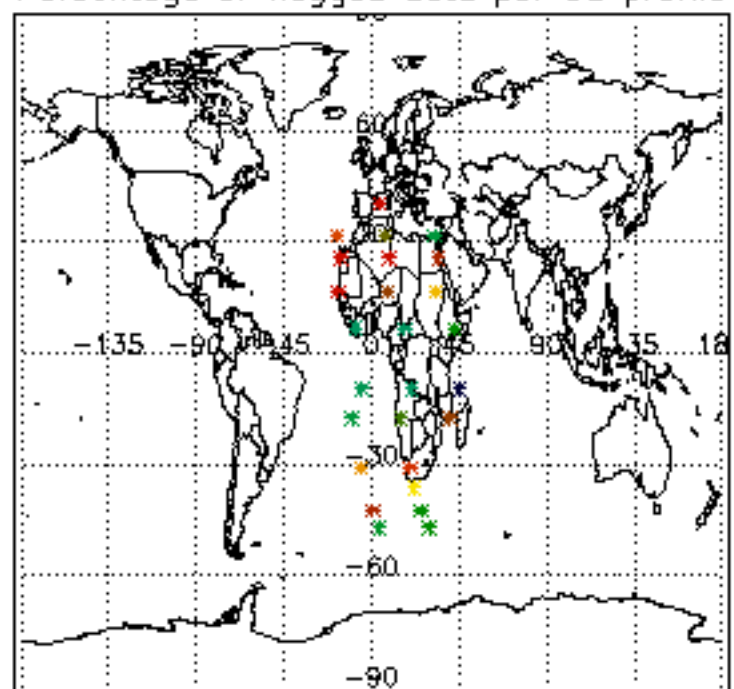
6. Auxiliary Data Files used for the production reported in section 2

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.

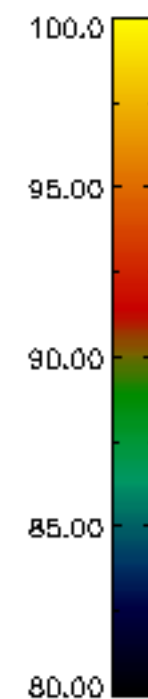
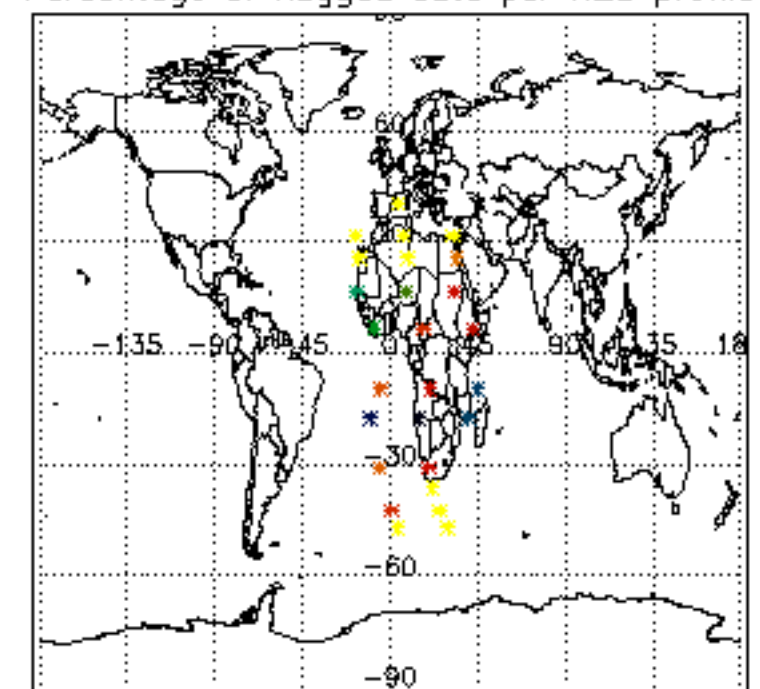
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	02-FEB-2007 19:34:50
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-FEB-2007 19:34:50
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-FEB-2007 19:34:50



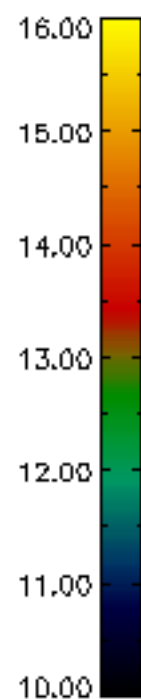
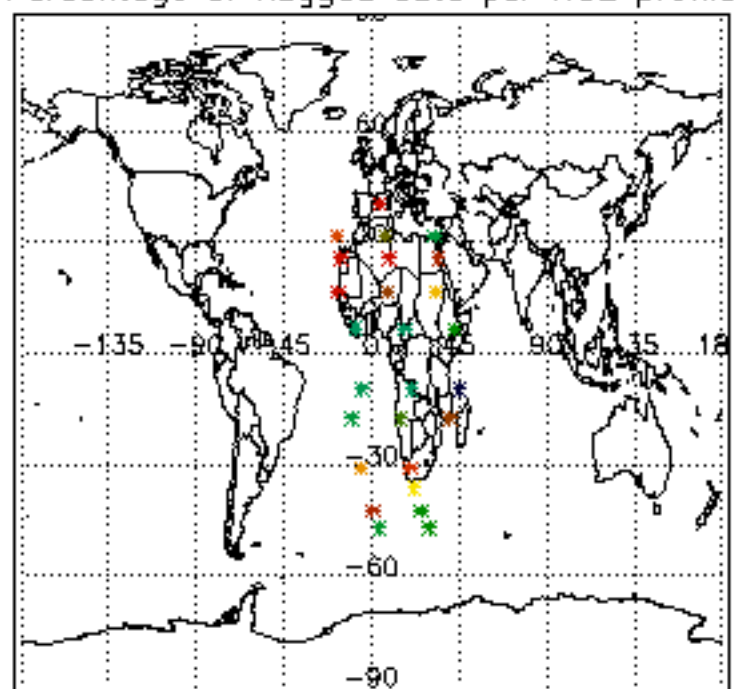
Percentage of flagged data per D3 profile



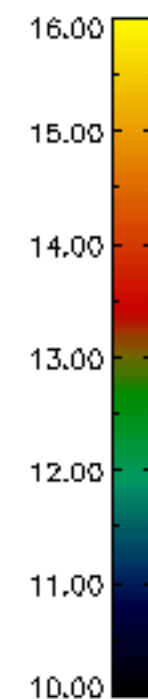
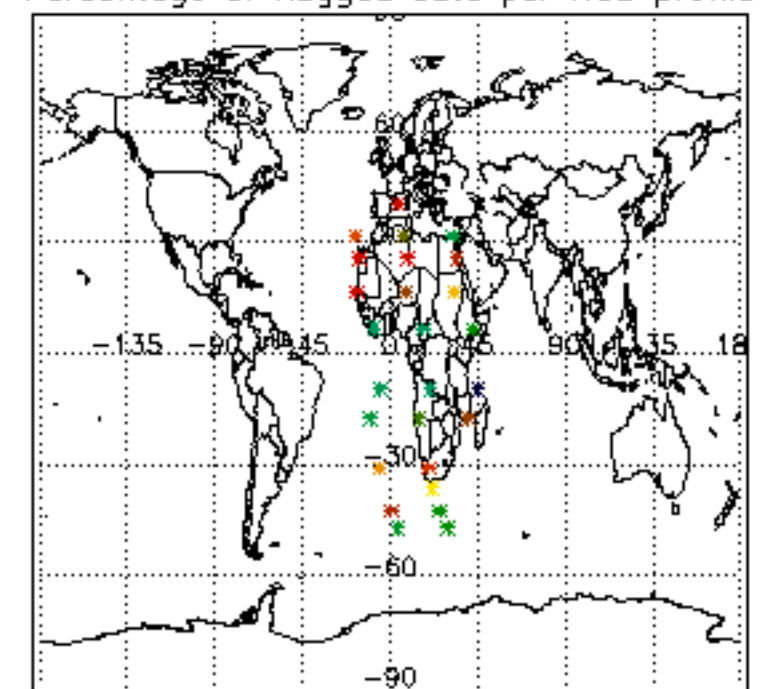
Percentage of flagged data per H2O profile

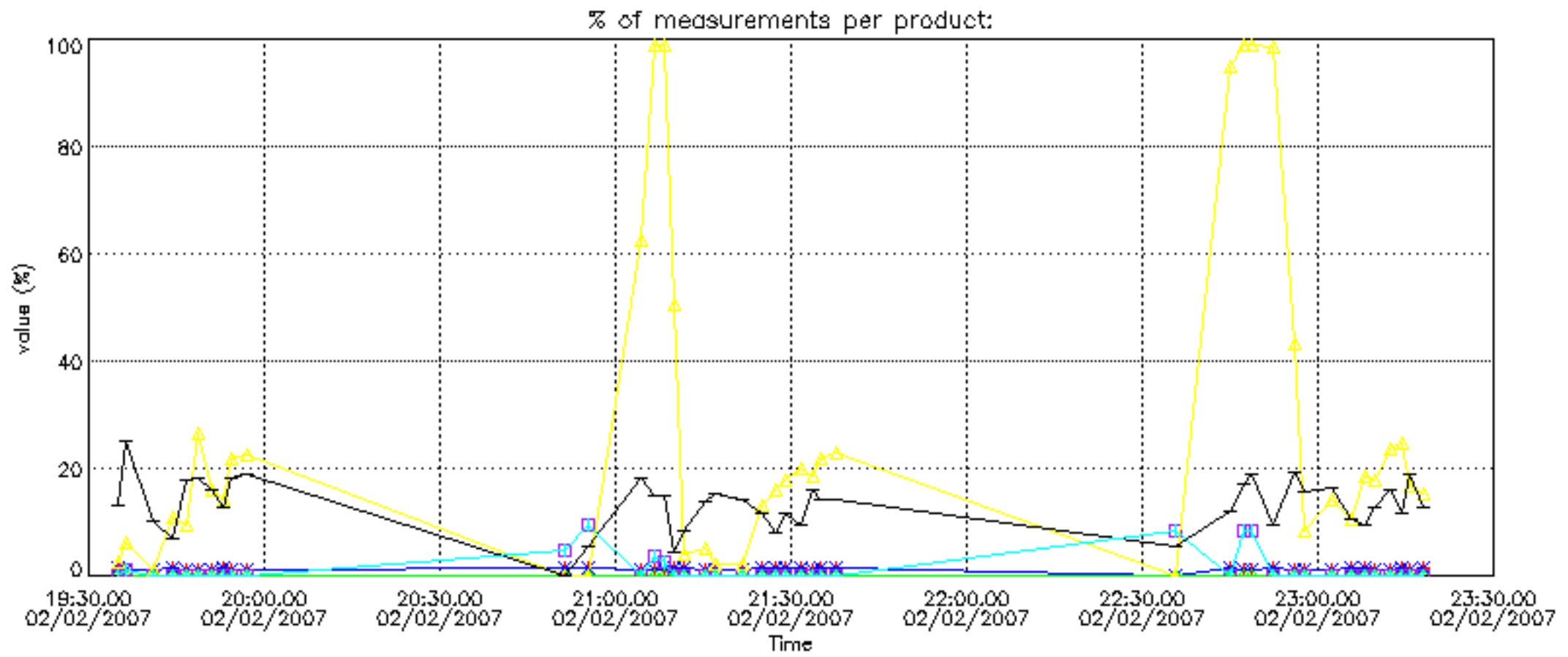


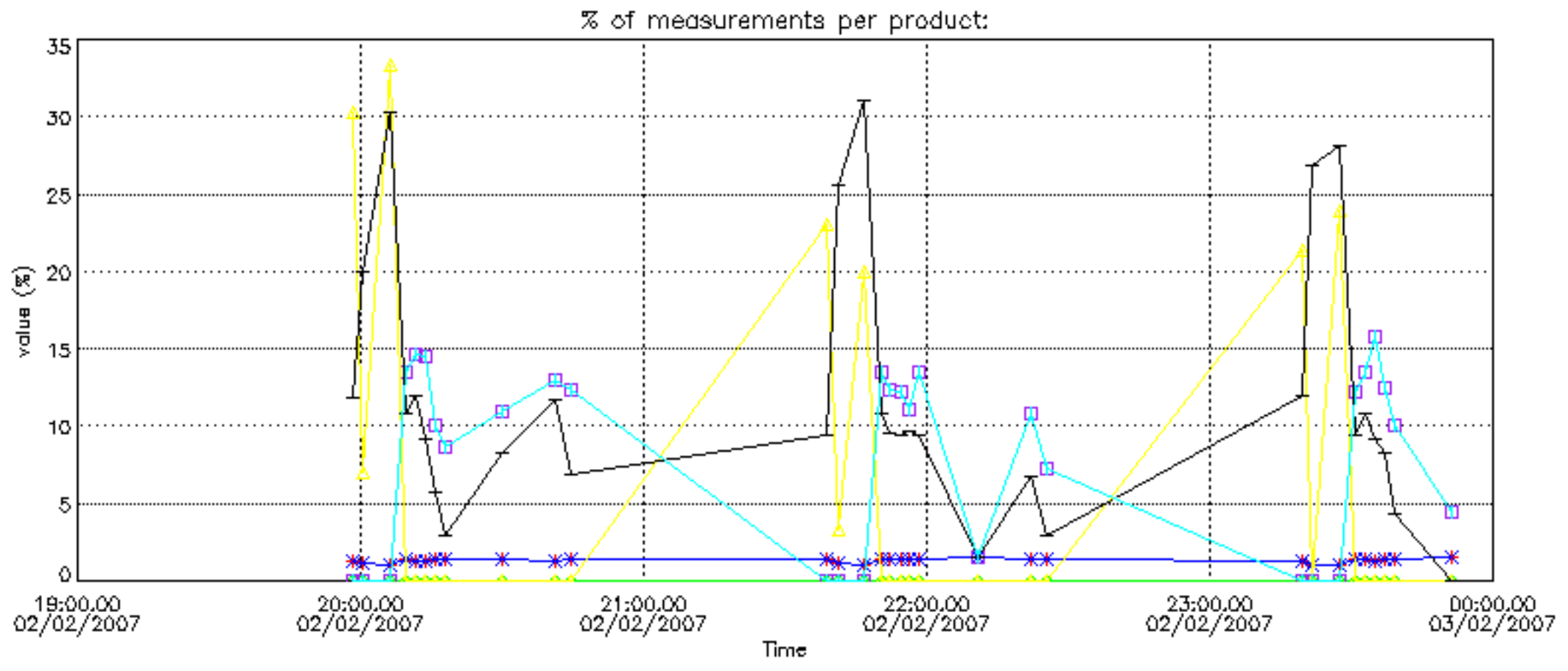
Percentage of flagged data per NO2 profile



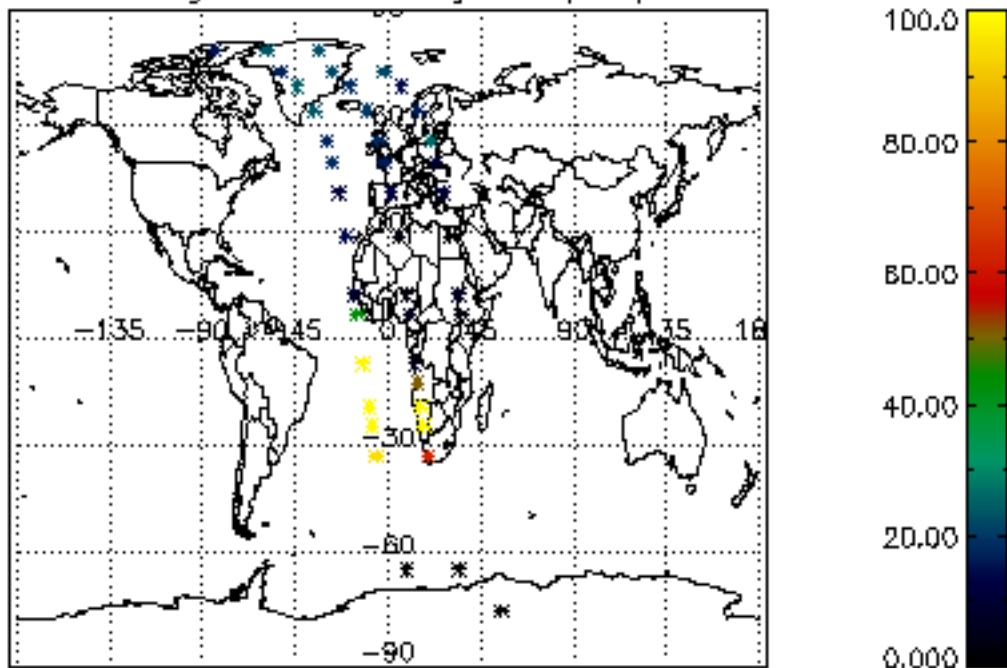
Percentage of flagged data per NO3 profile



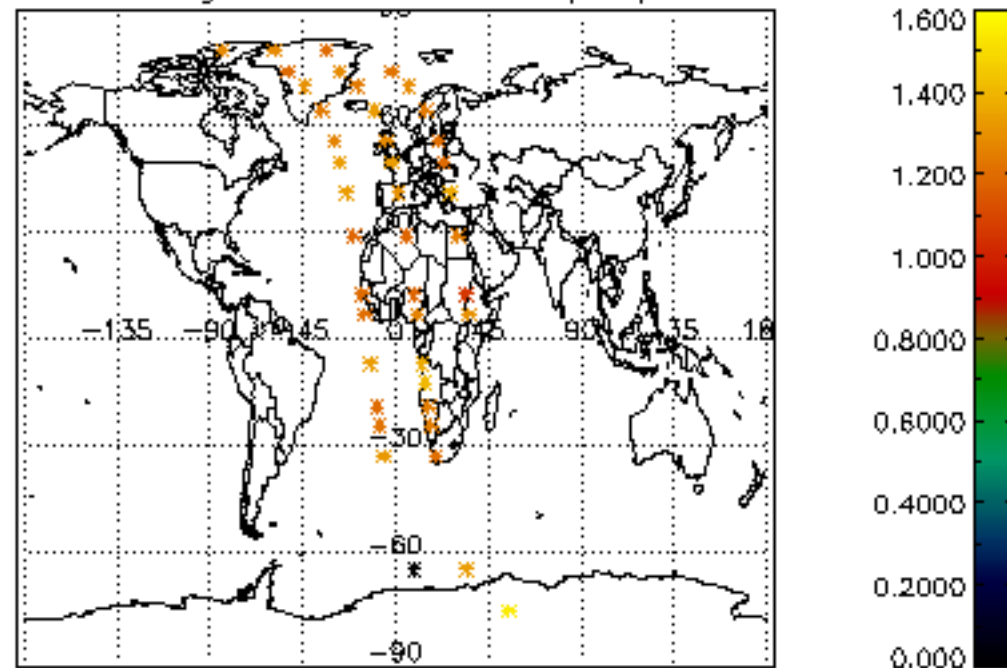




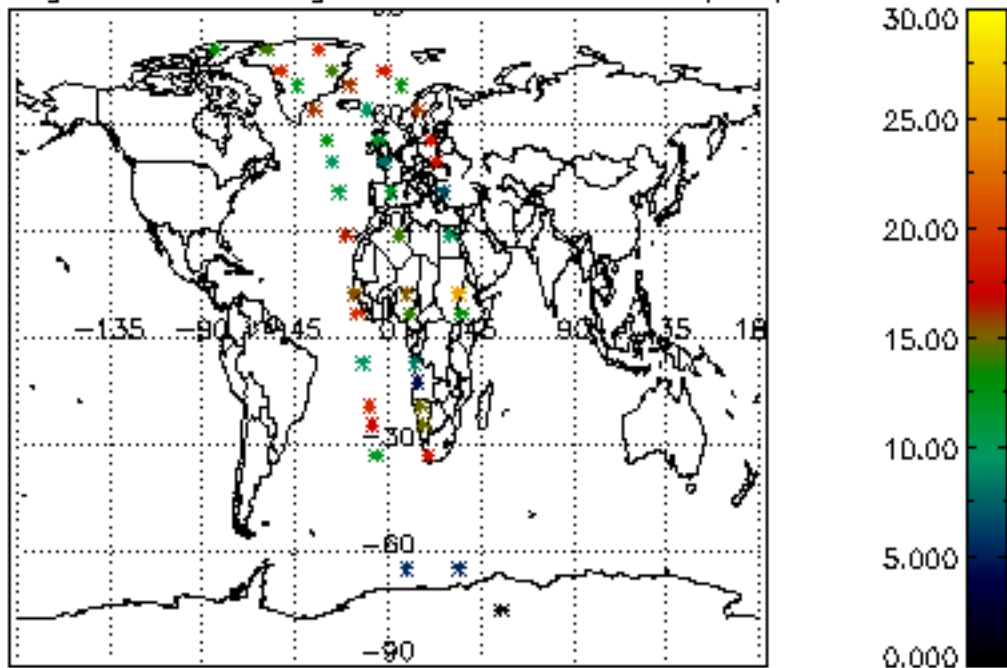
Percentage of cosmic ray hits per profile



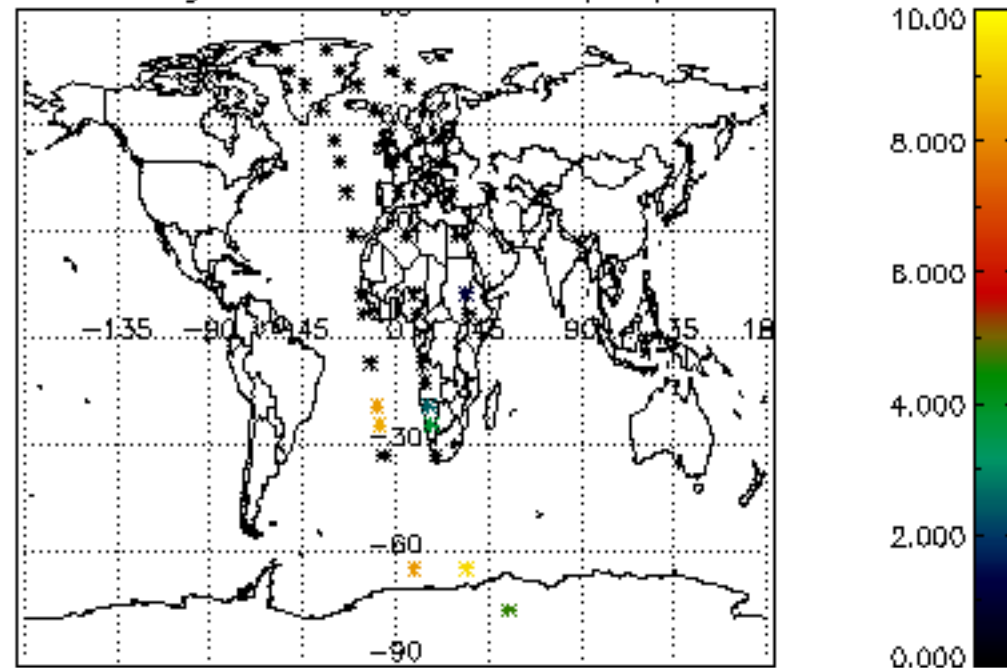
Percentage of datation errors per profile



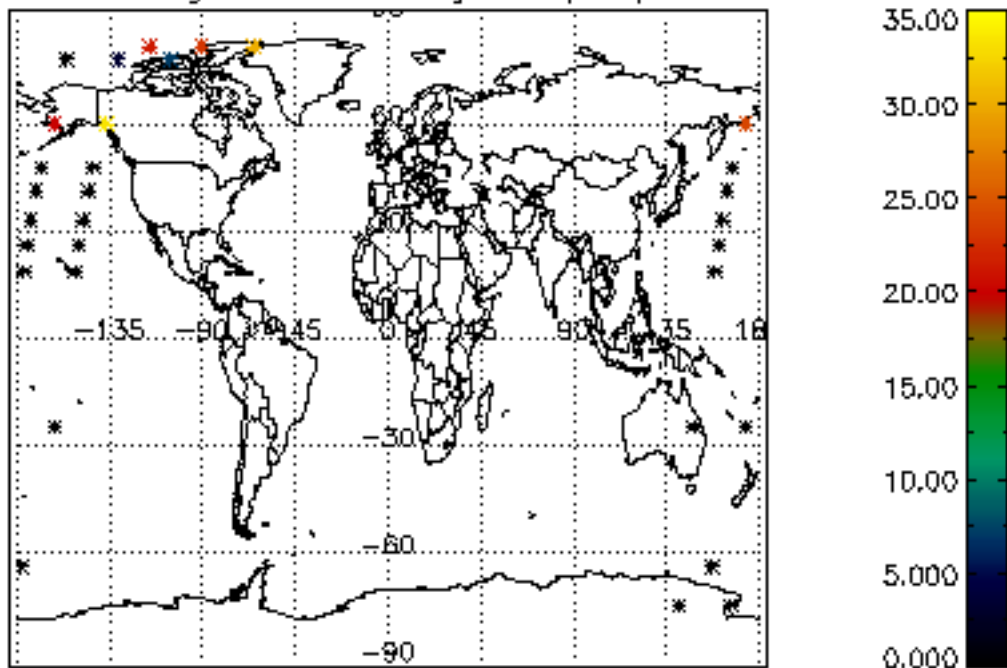
Percentage of star falling outside central band per profile



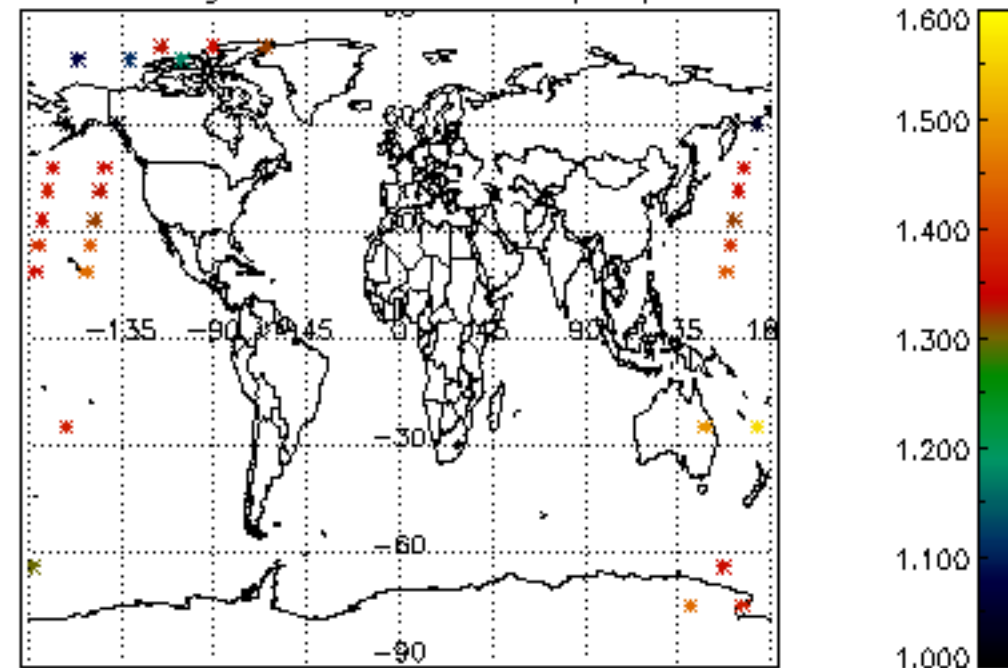
Percentage of saturation errors per profile



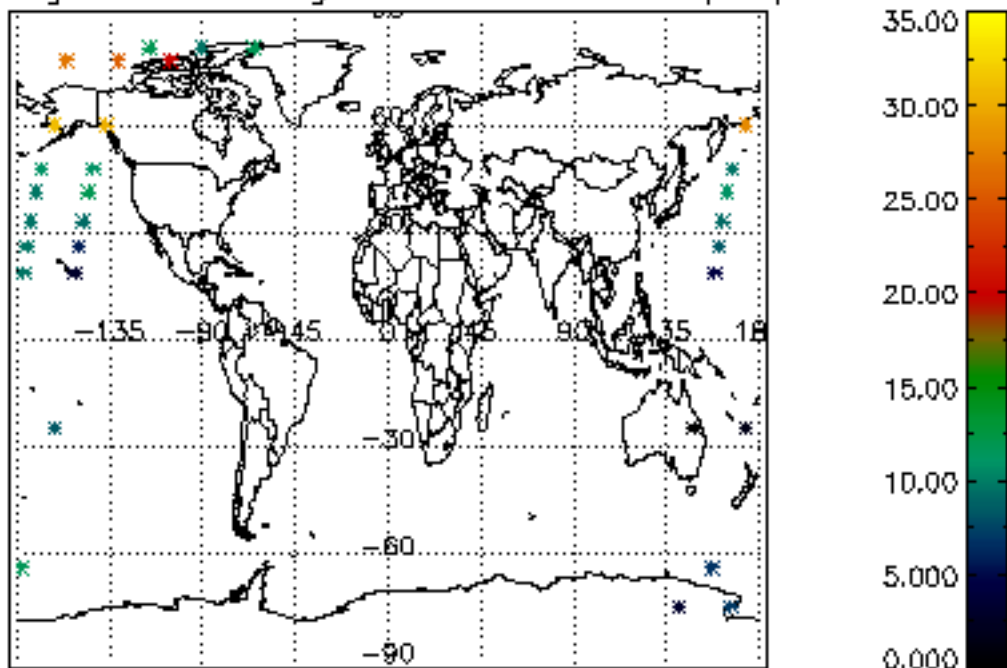
Percentage of cosmic ray hits per profile



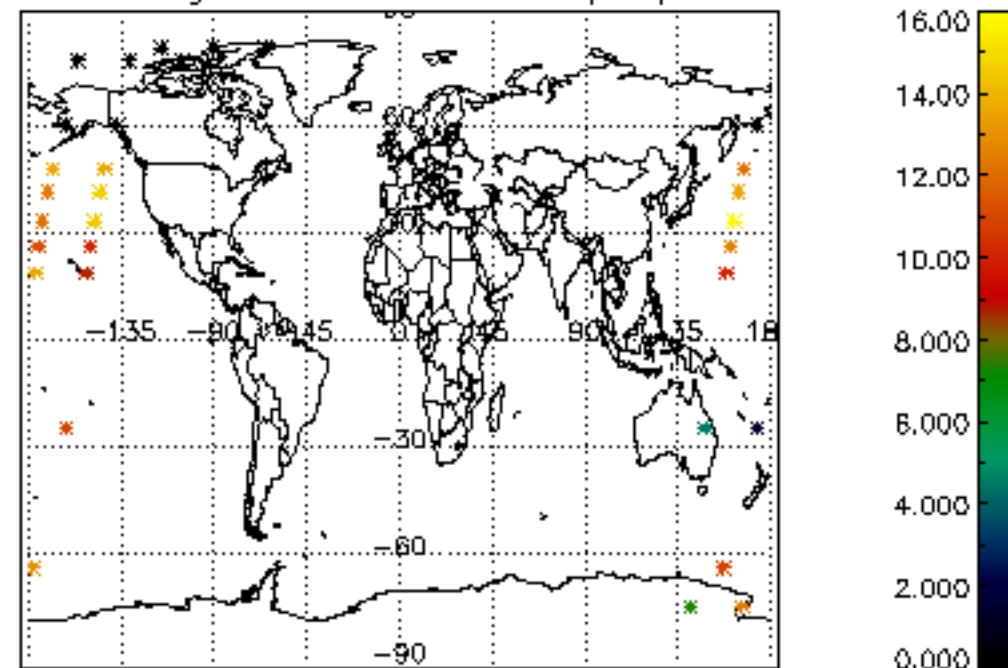
Percentage of datation errors per profile

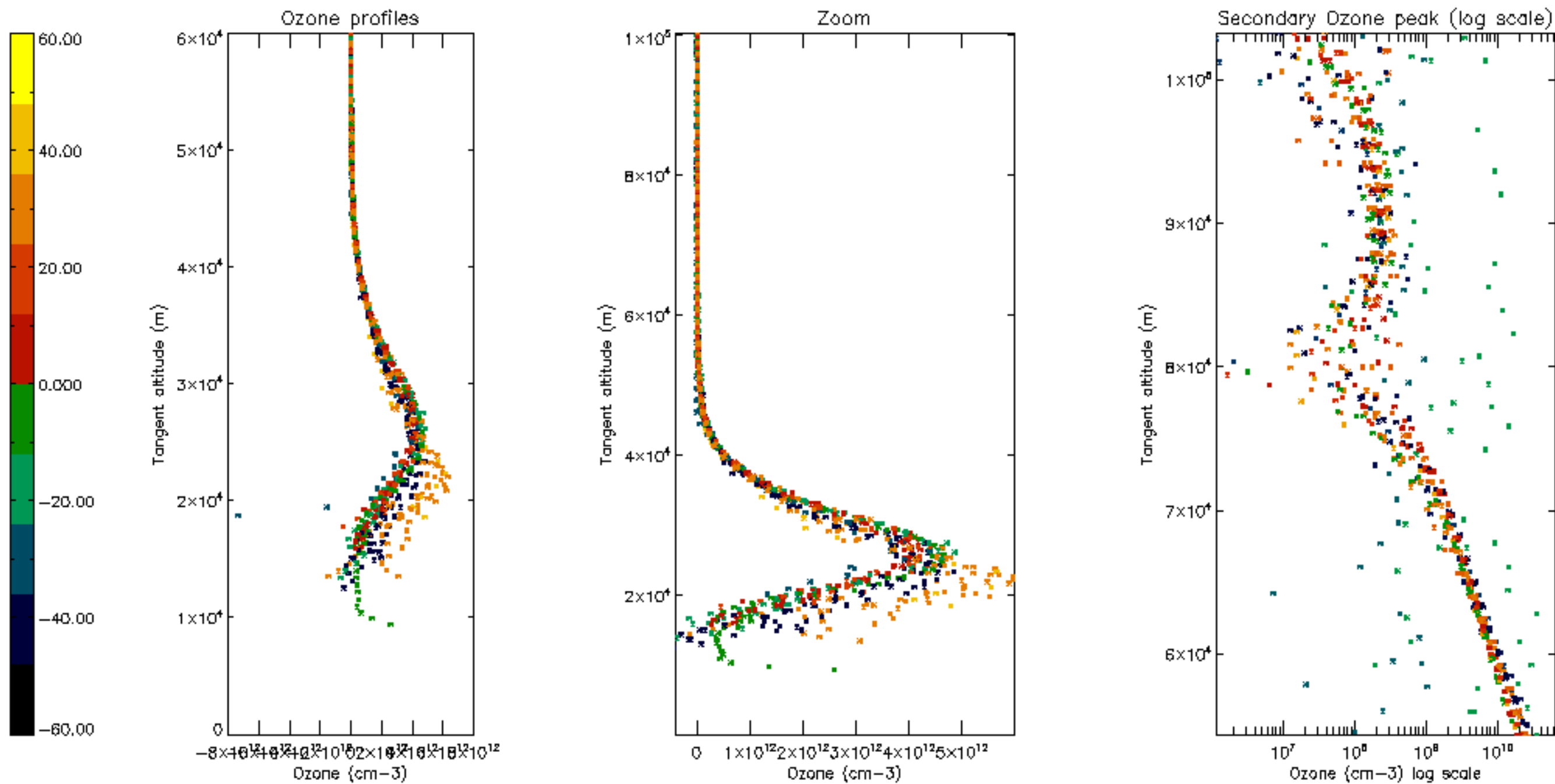


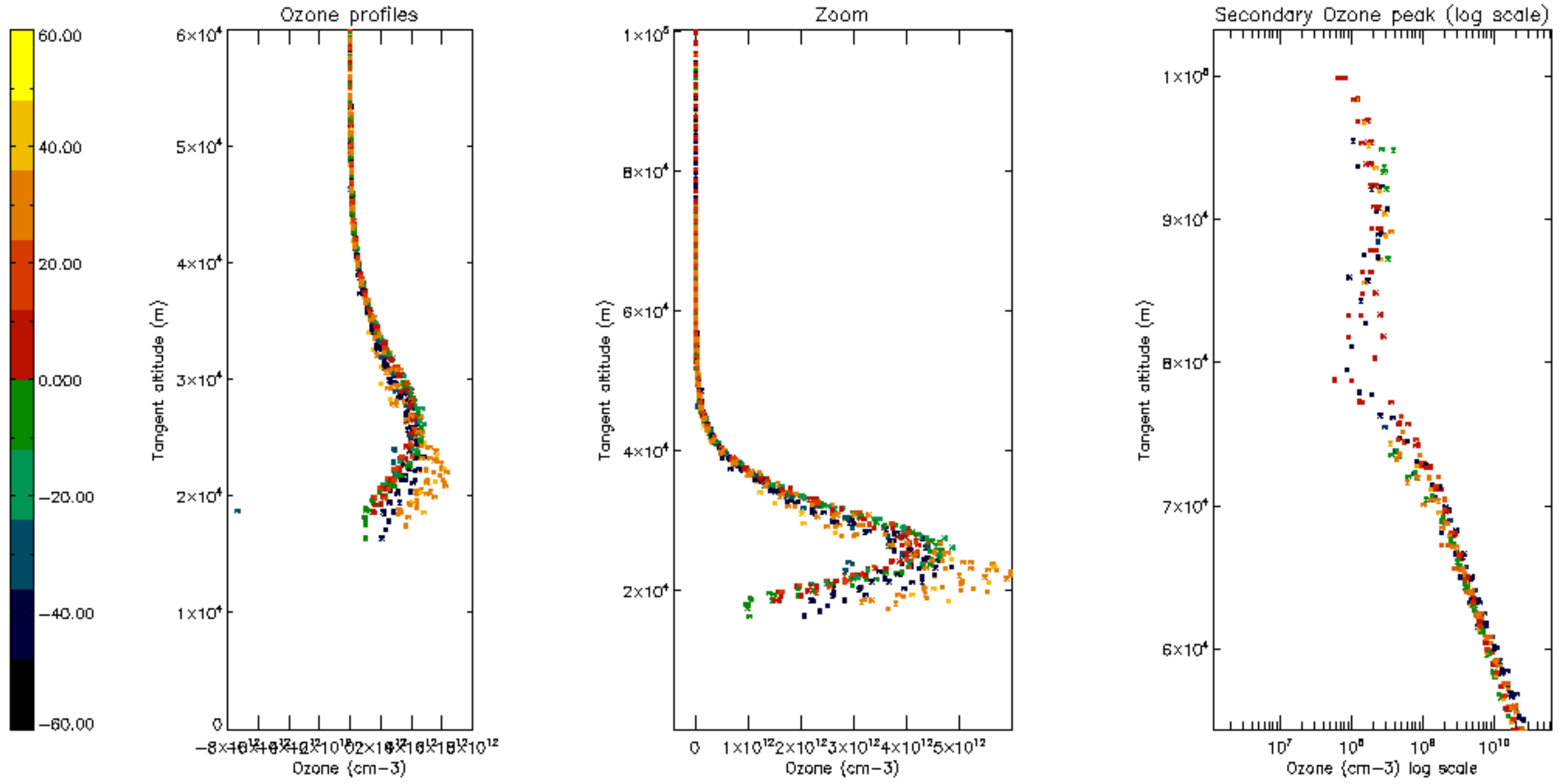
Percentage of star falling outside central band per profile

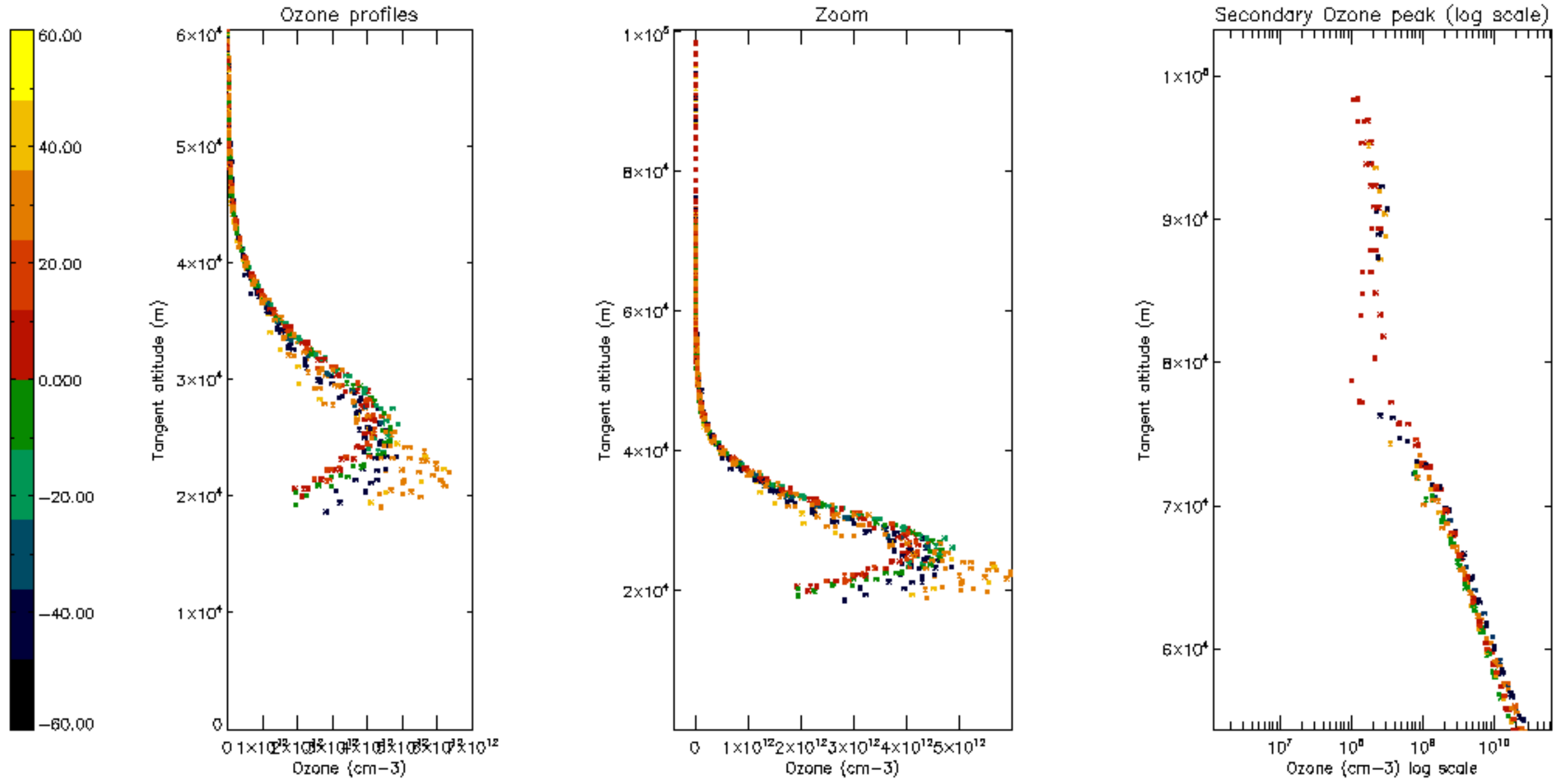


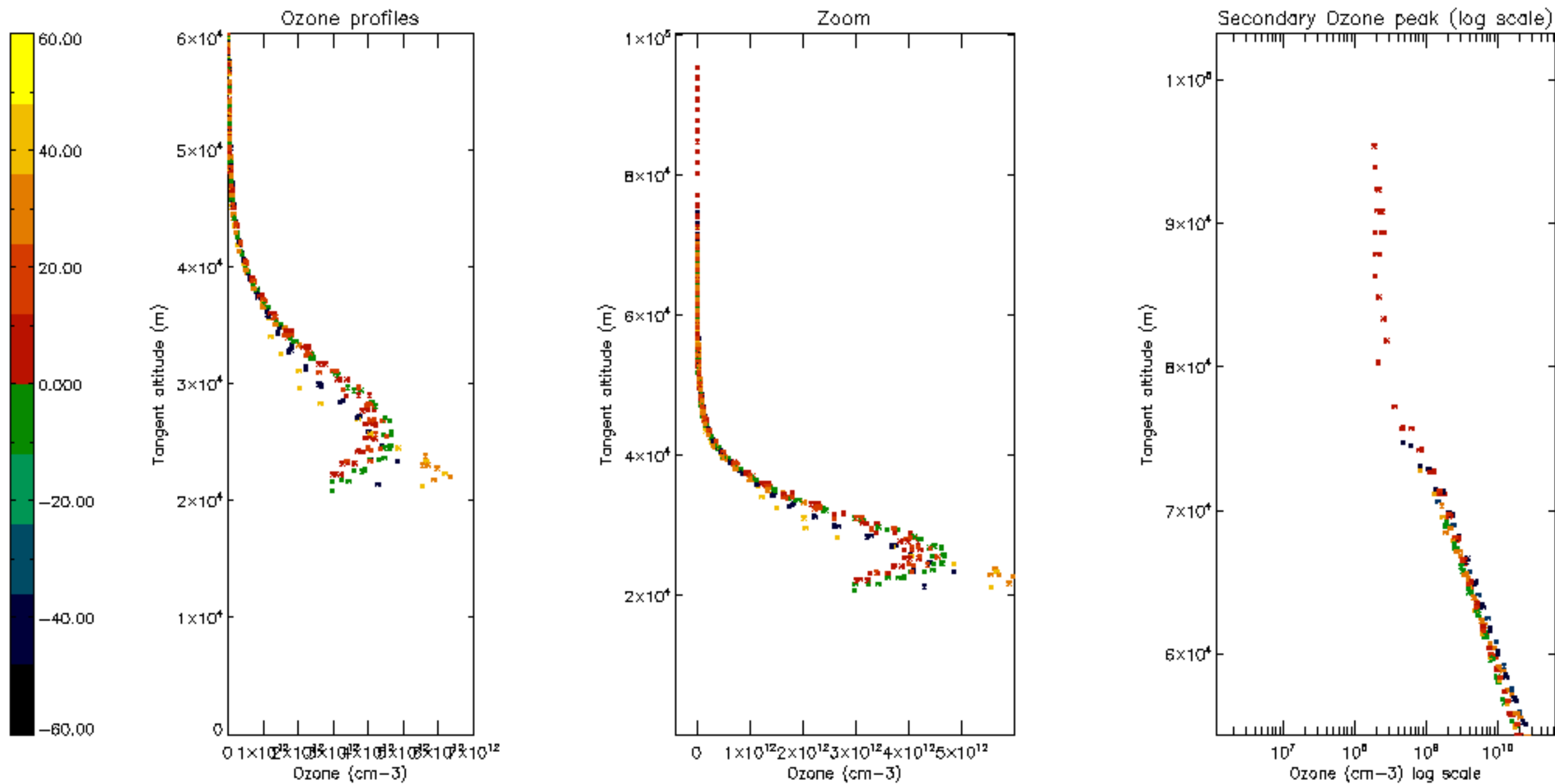
Percentage of saturation errors per profile

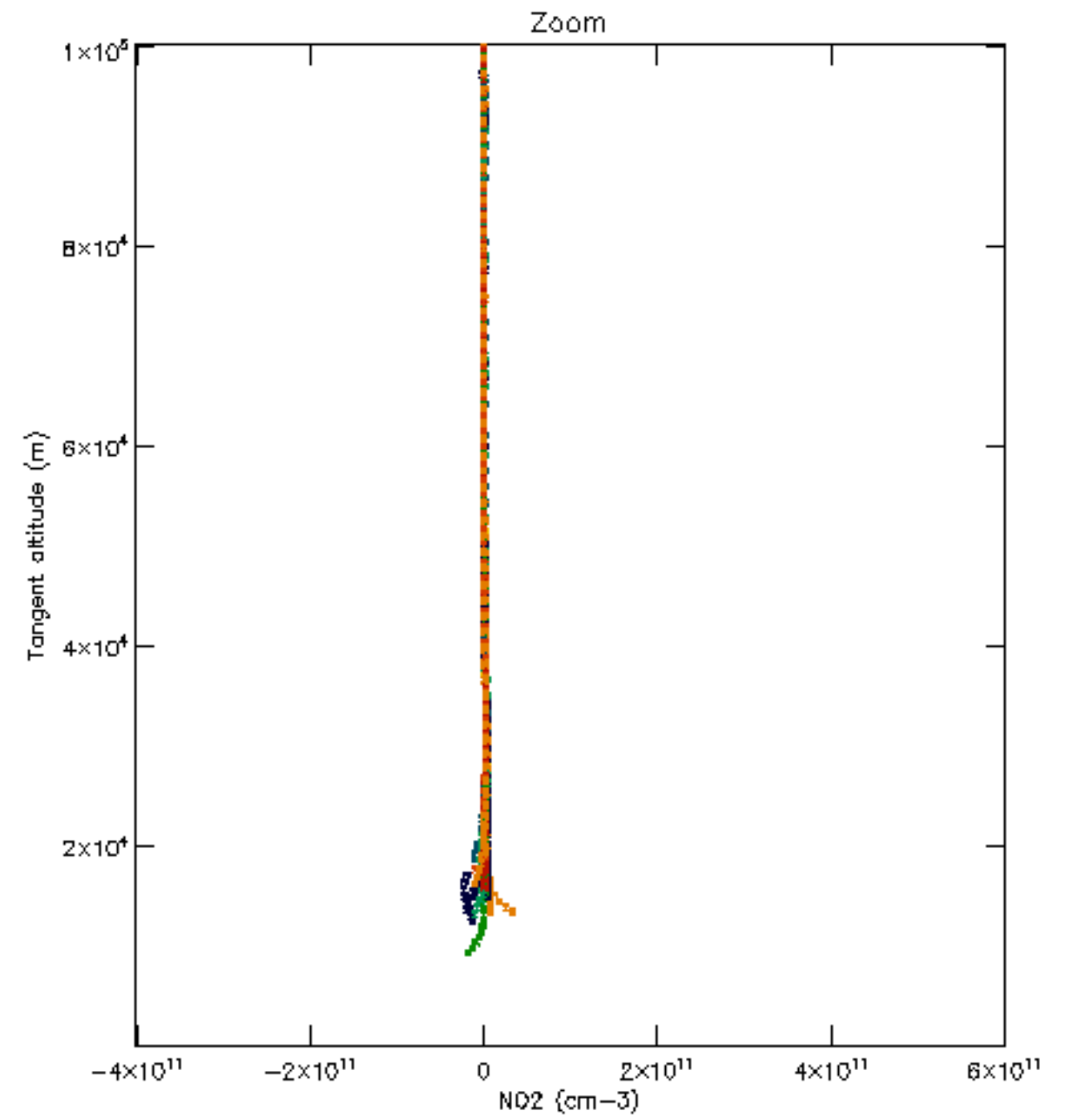
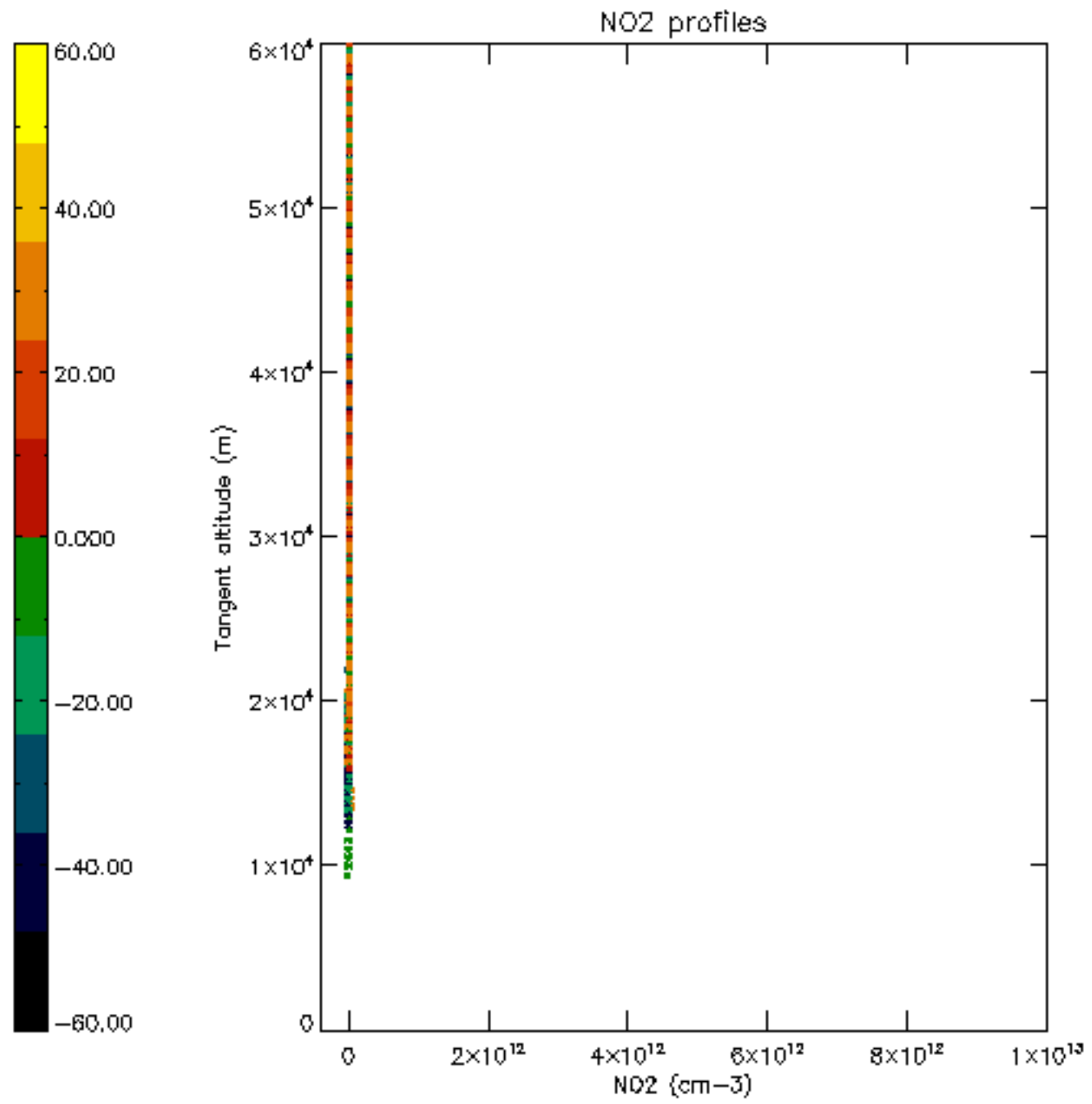


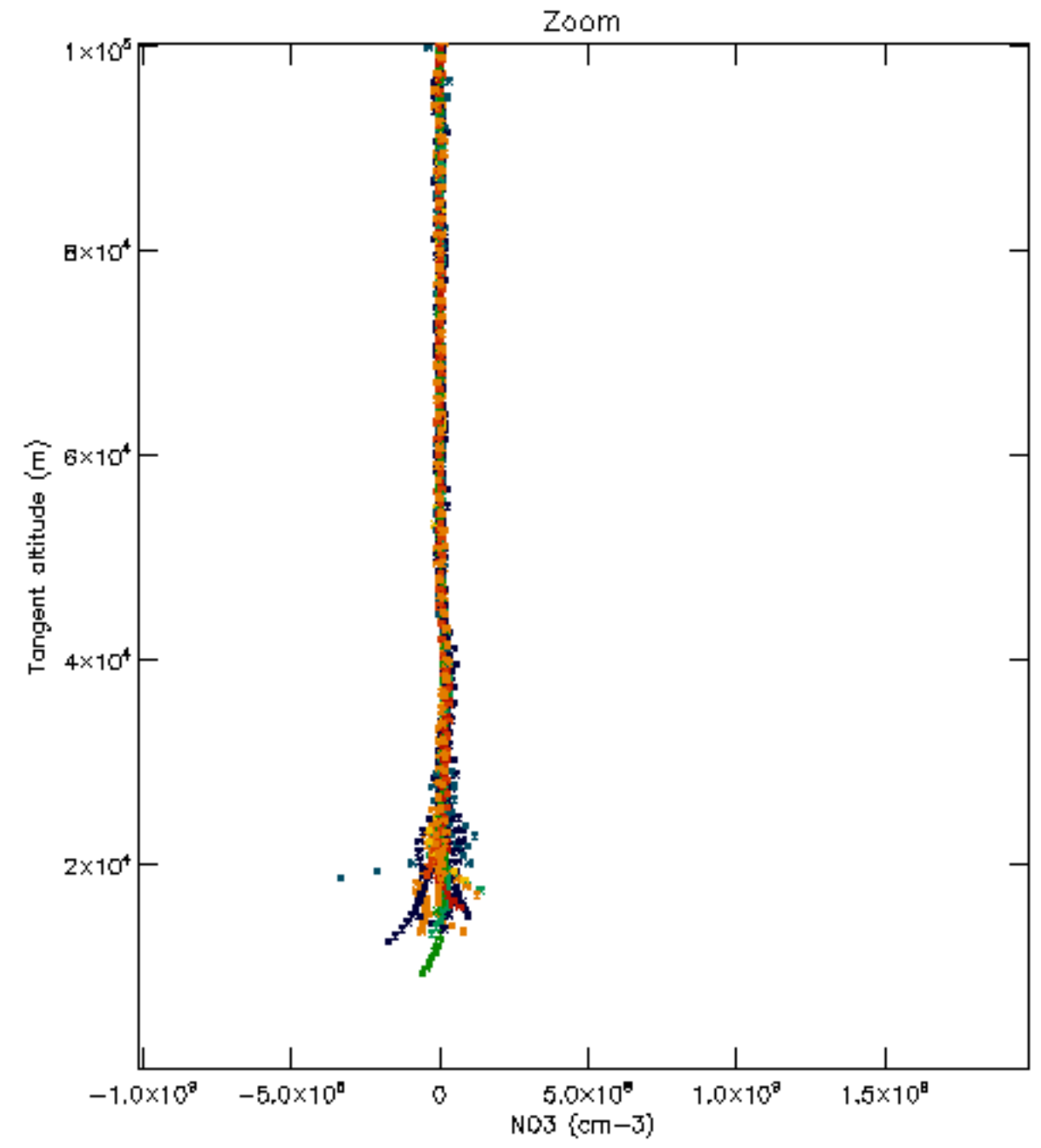
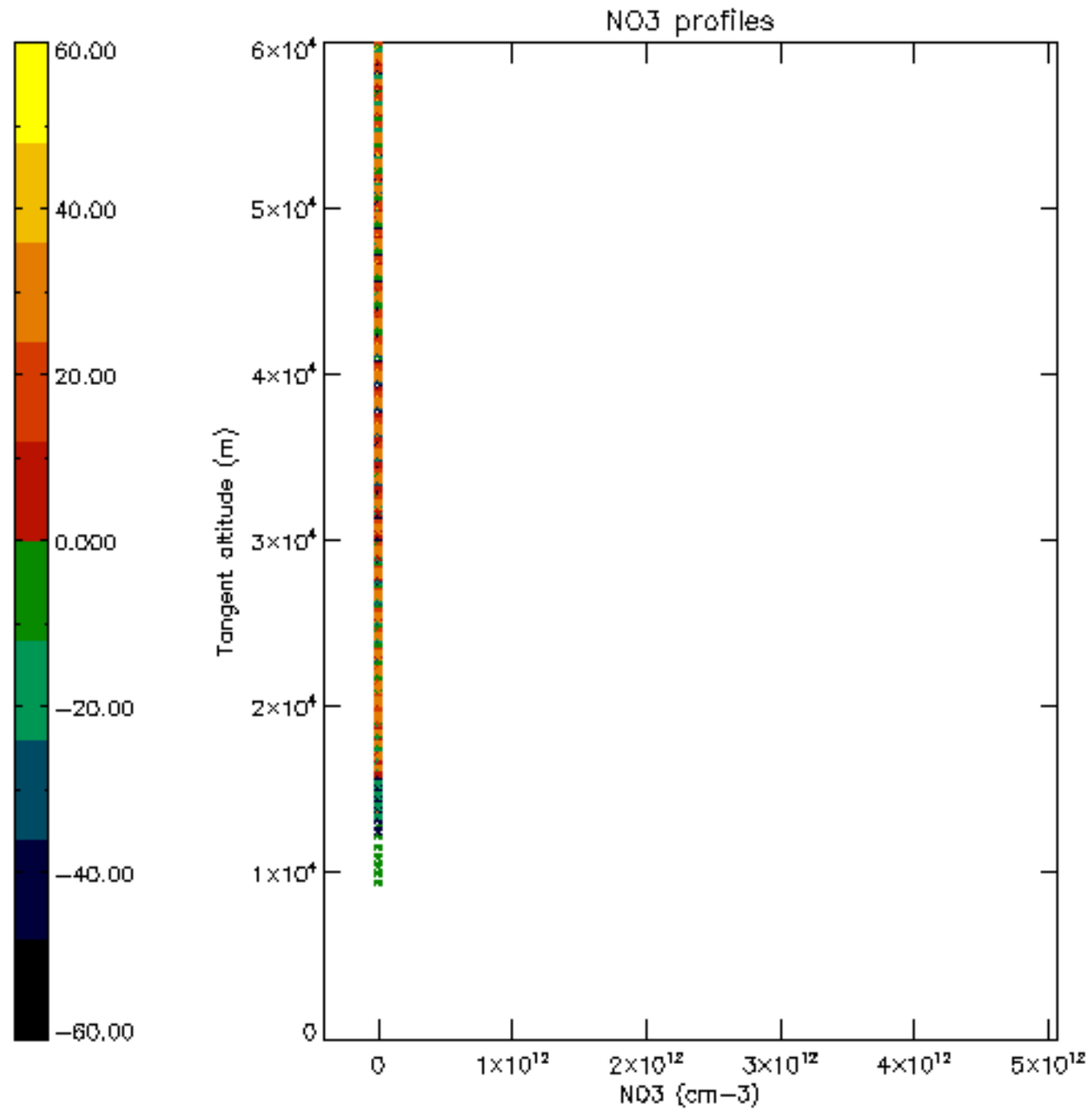


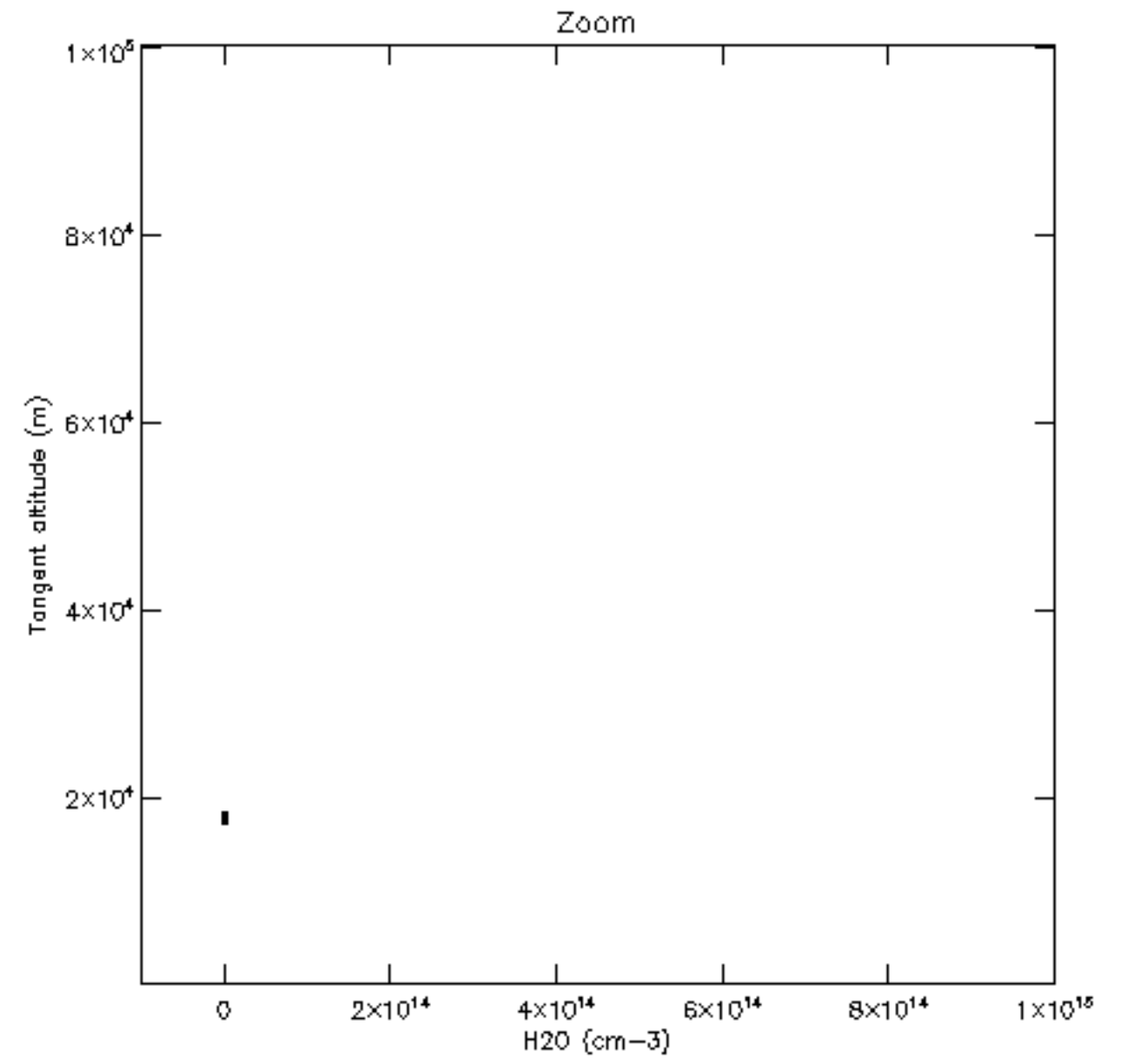
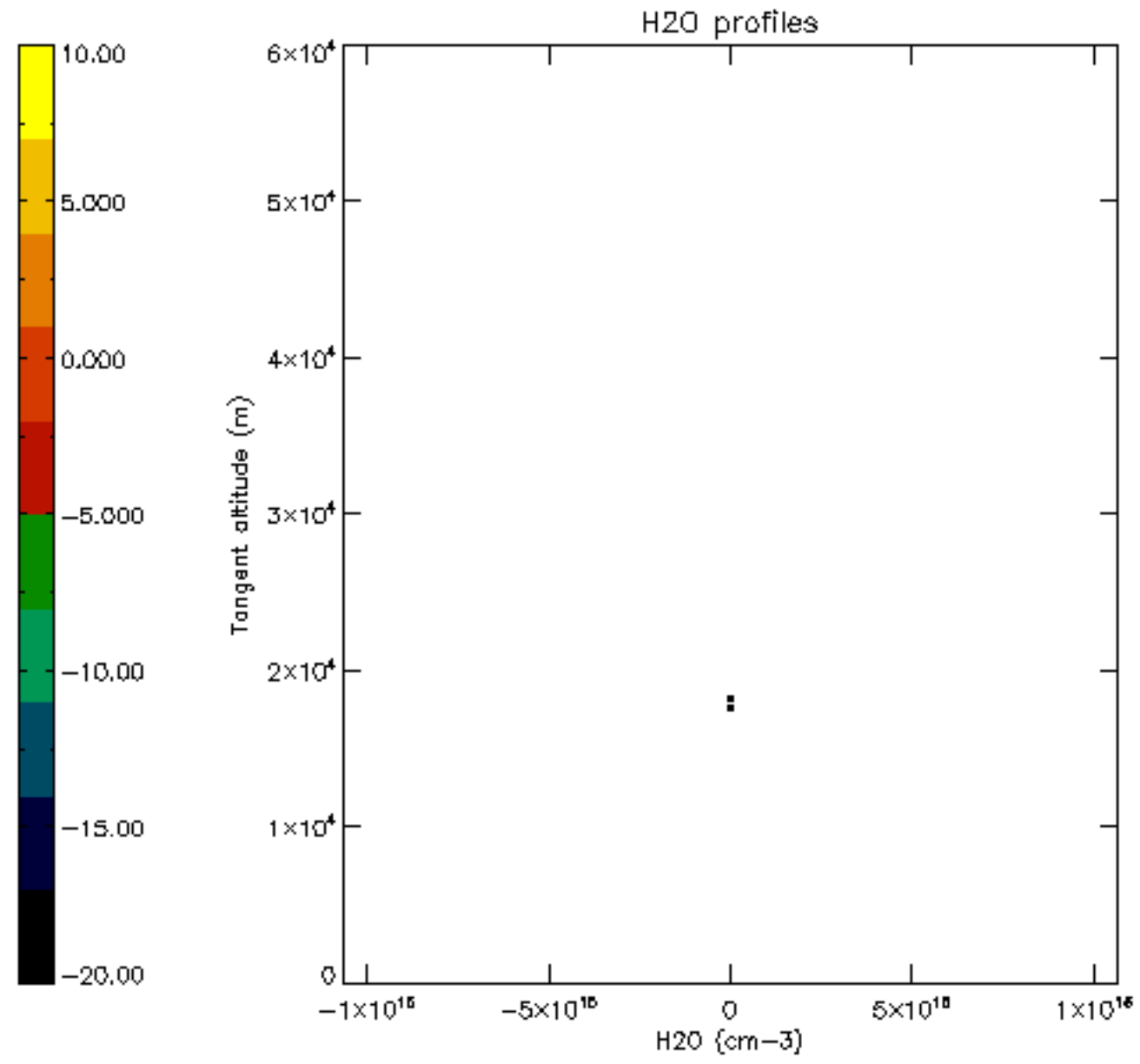


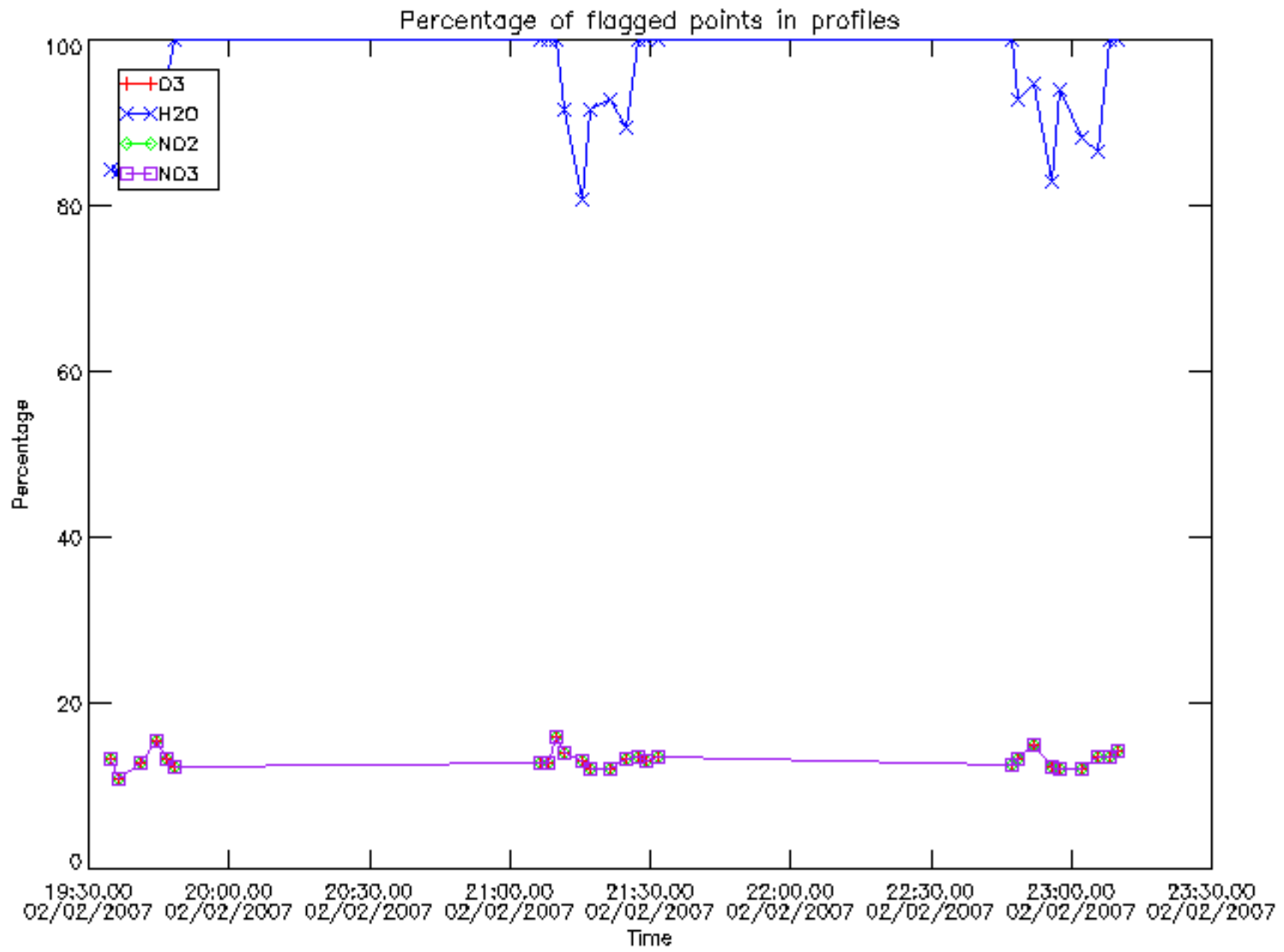




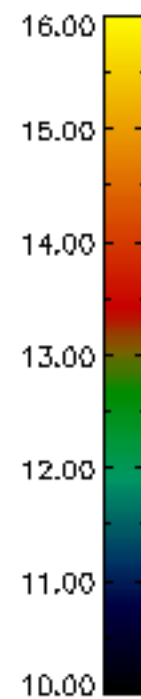
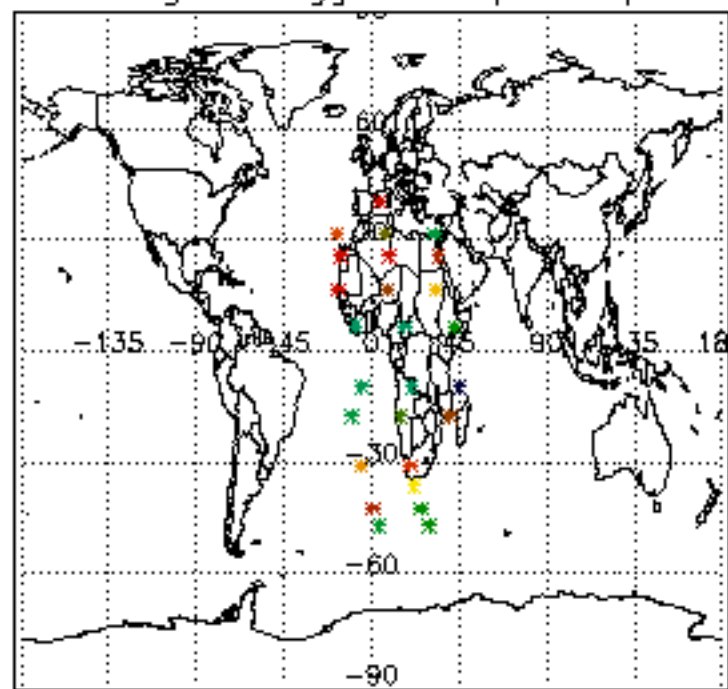




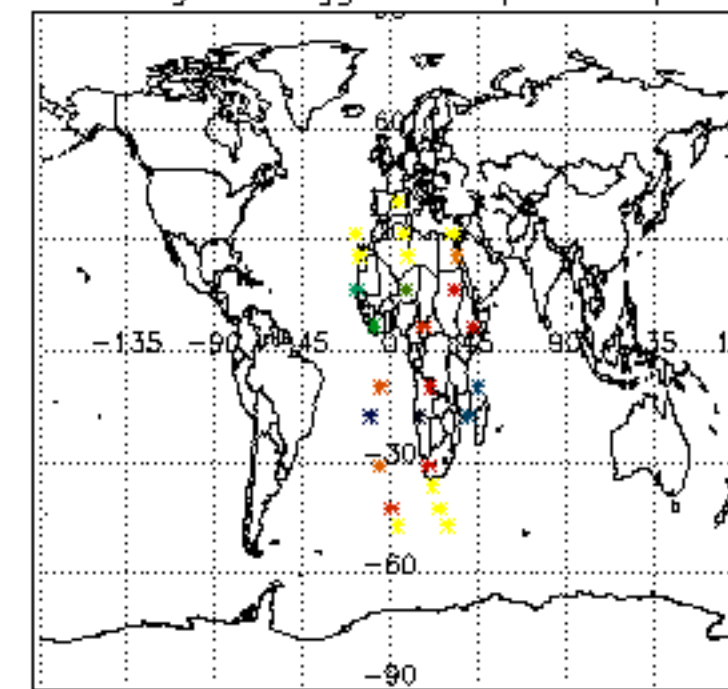




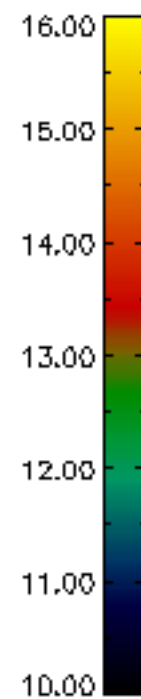
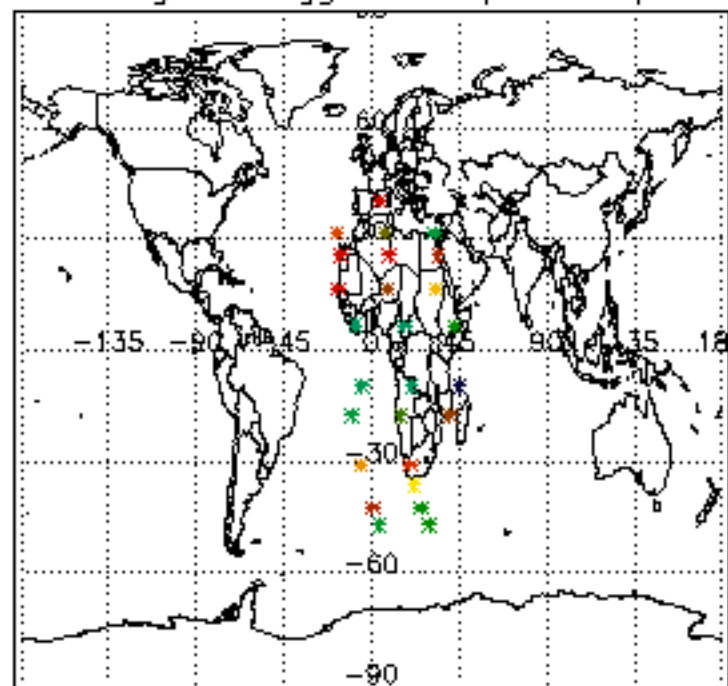
Percentage of flagged data per D3 profile



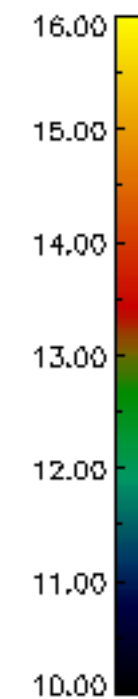
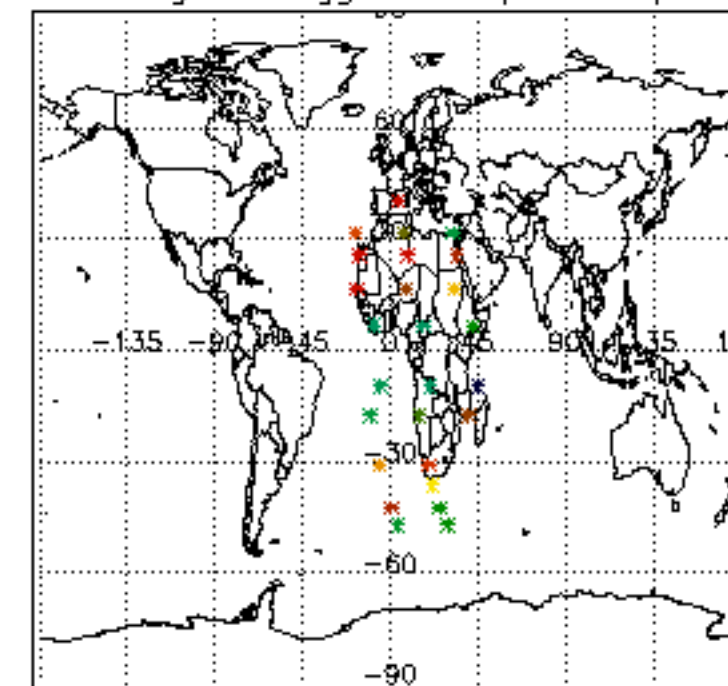
Percentage of flagged data per H2O profile

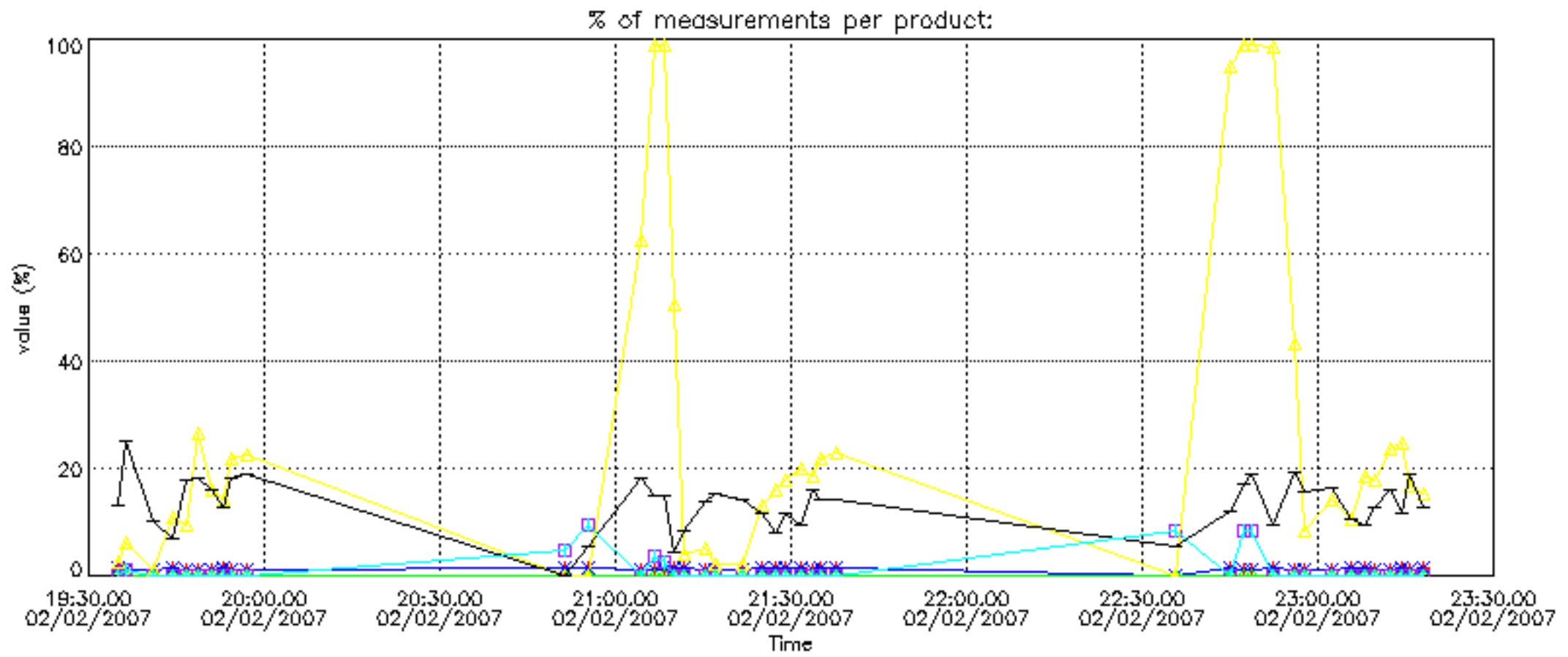


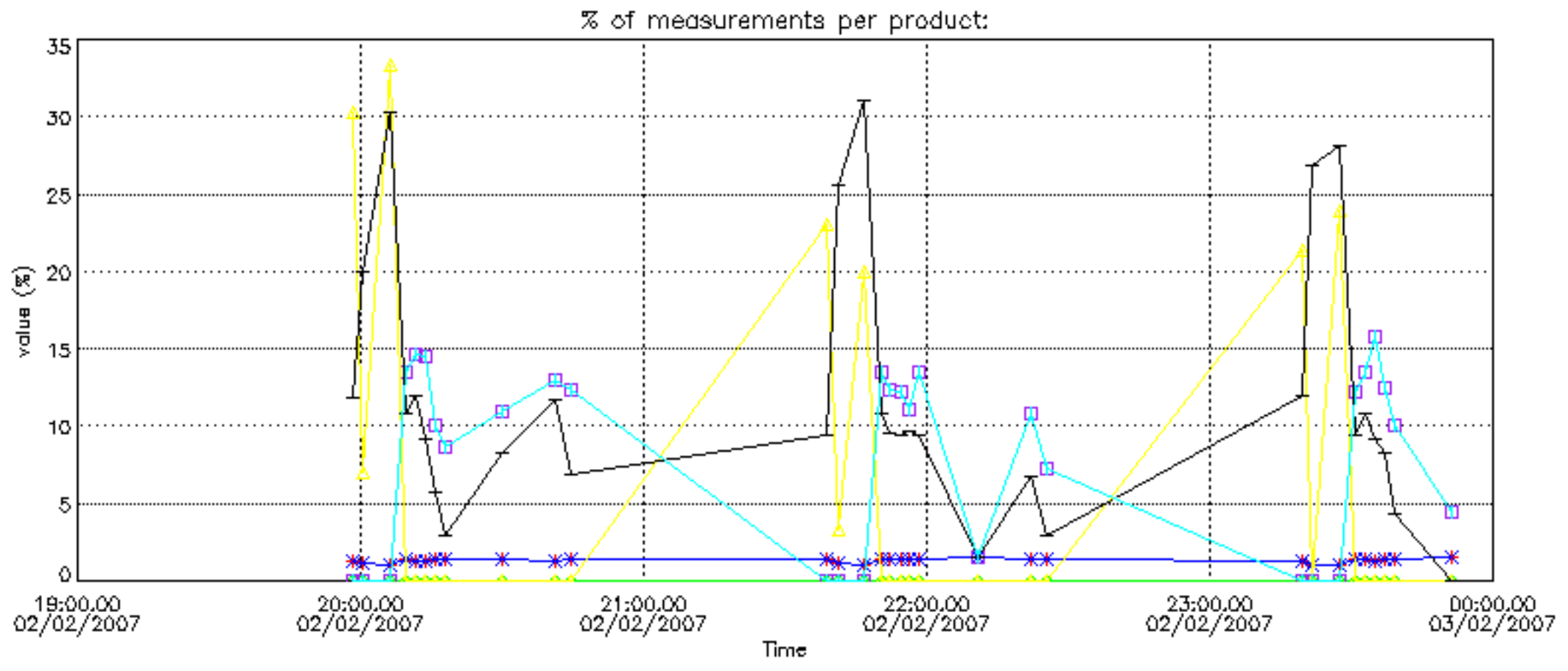
Percentage of flagged data per NO2 profile



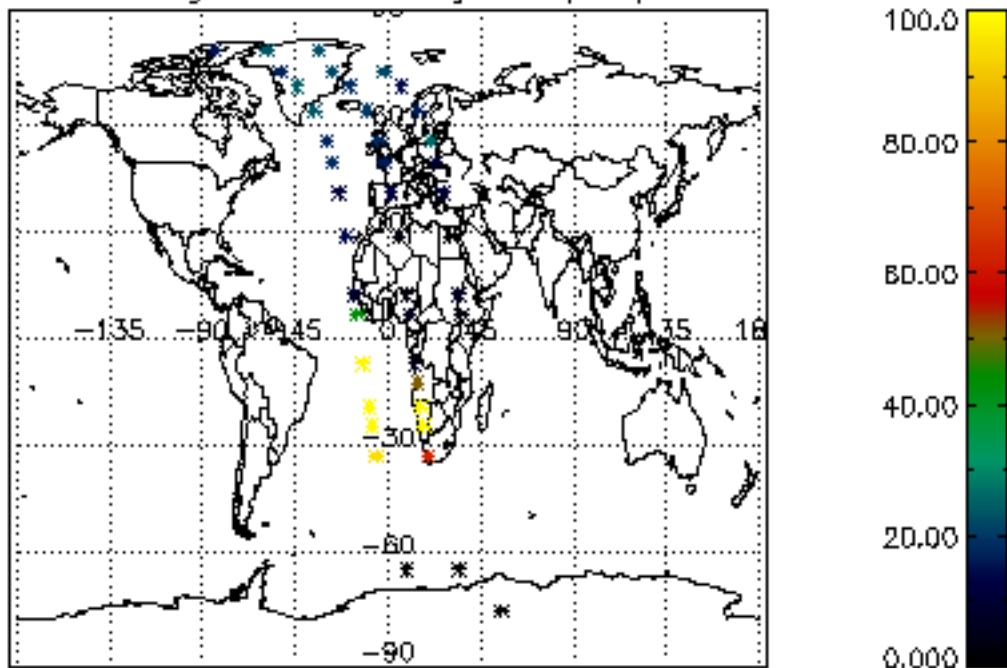
Percentage of flagged data per NO3 profile



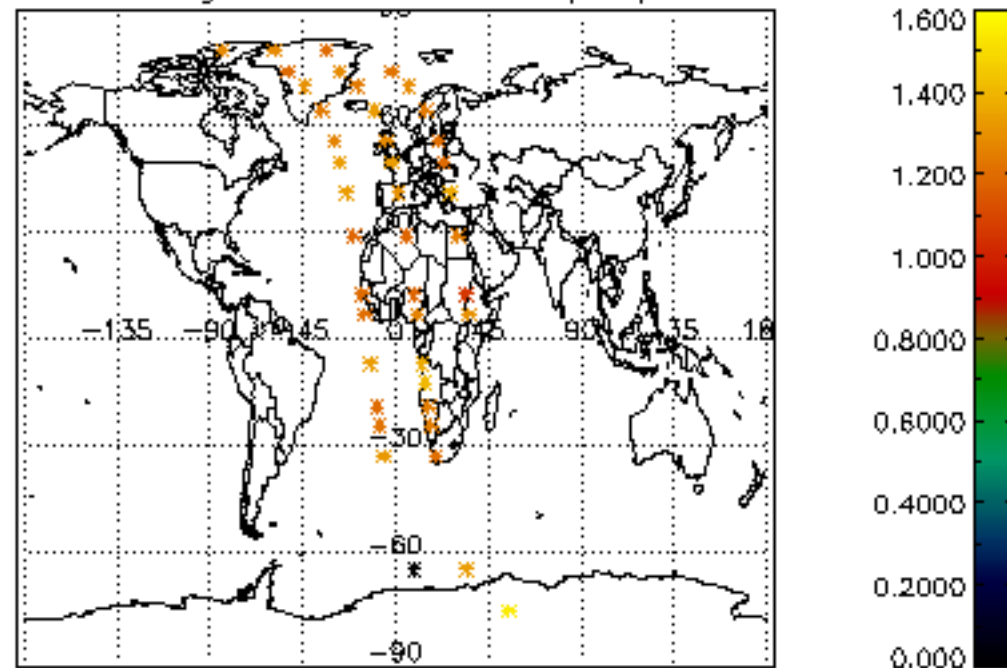




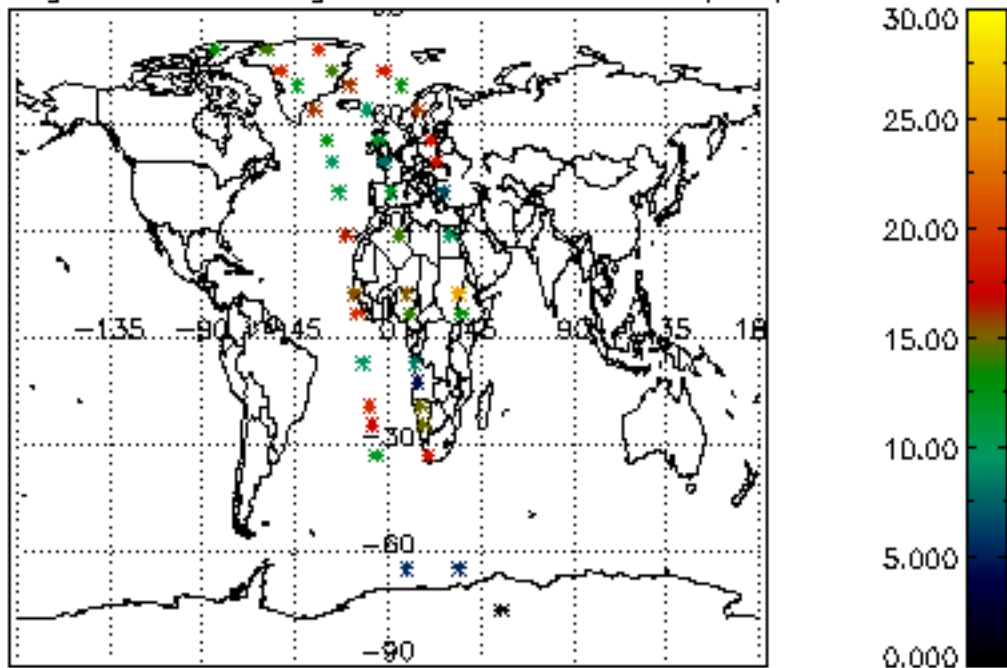
Percentage of cosmic ray hits per profile



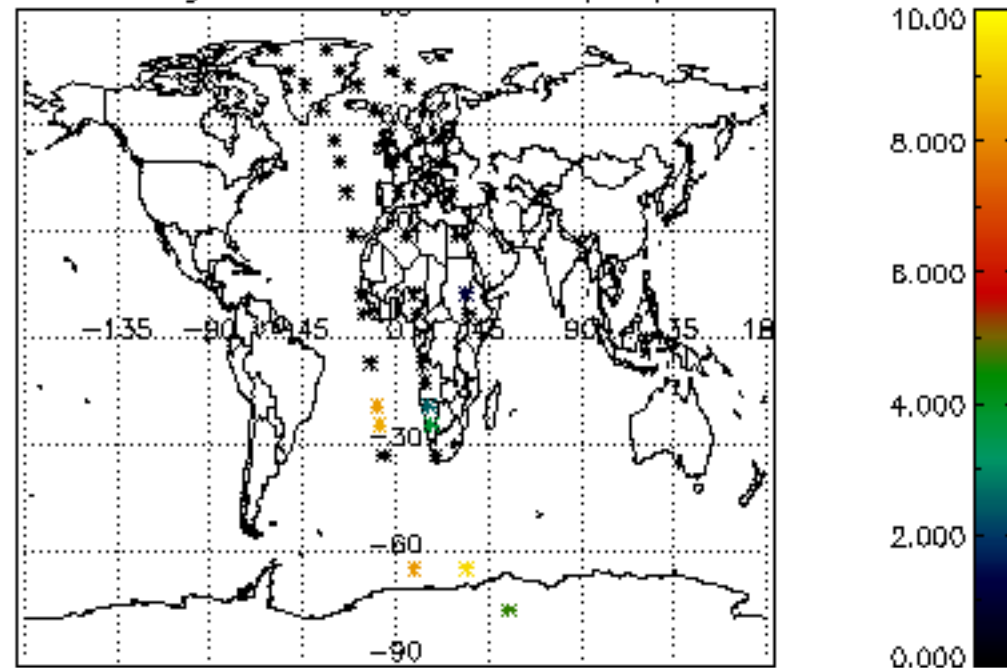
Percentage of datation errors per profile



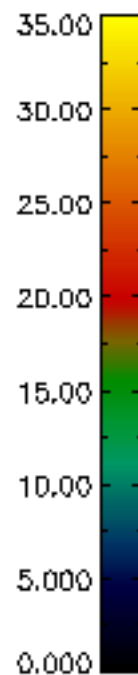
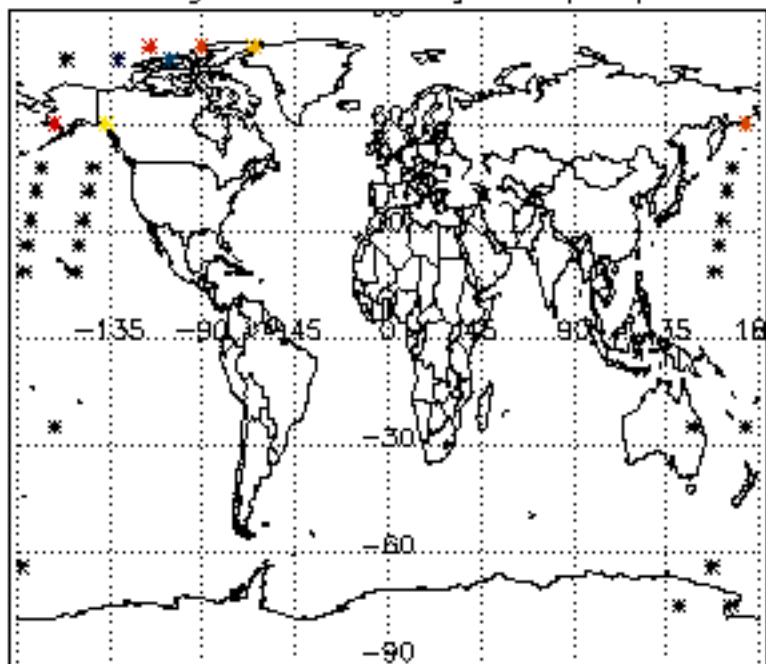
Percentage of star falling outside central band per profile



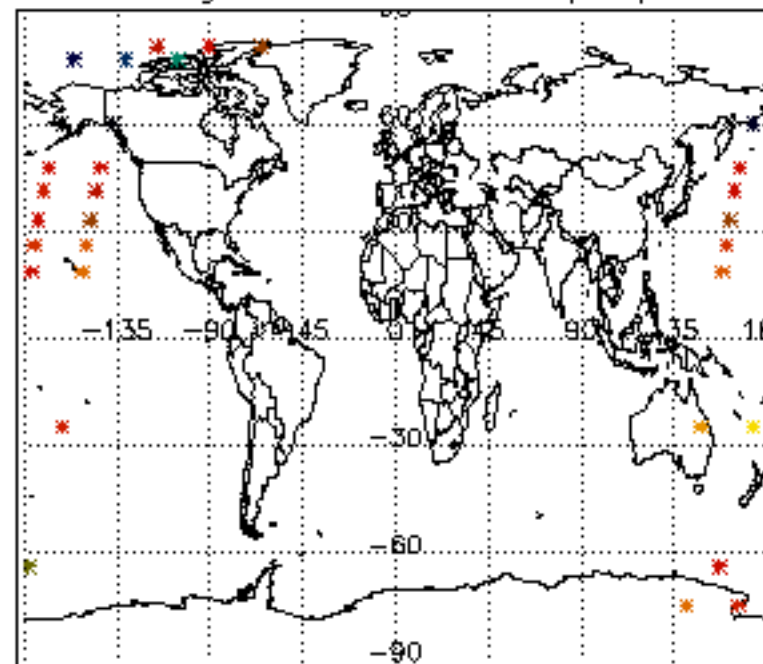
Percentage of saturation errors per profile



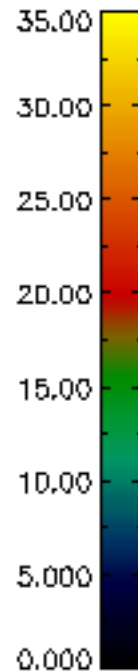
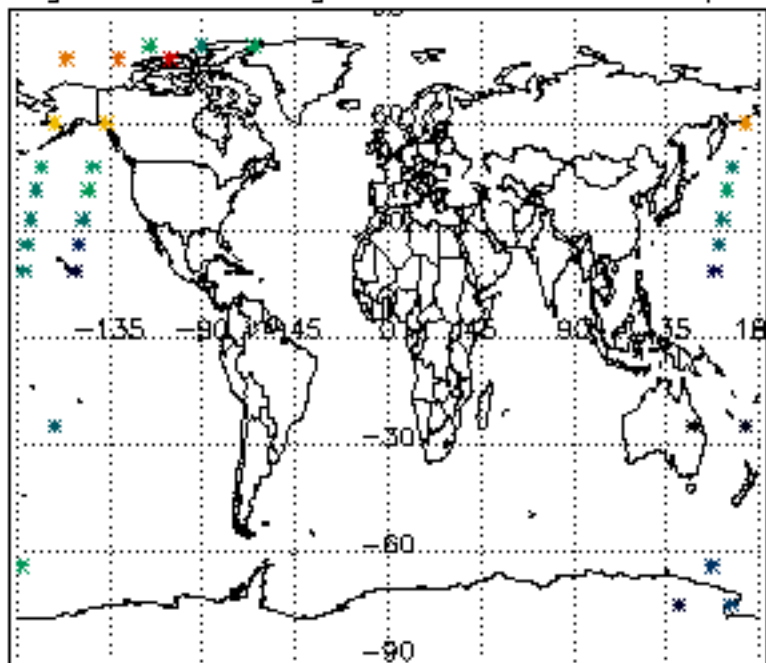
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

