

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](#)

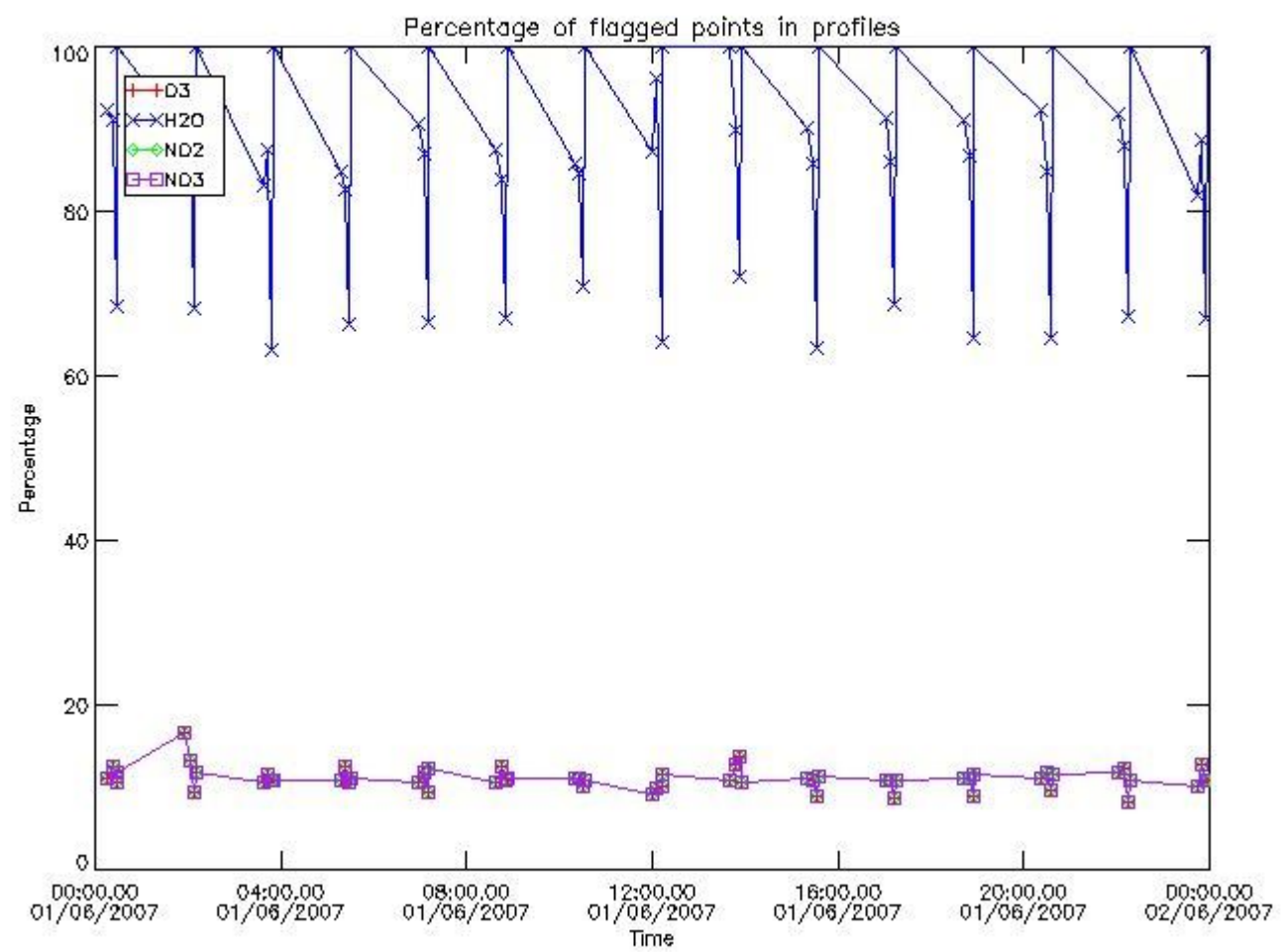
[6. Auxiliary Data Files used for the production reported in section 2](#)

279	GOM_NL__2PRFIN20070601_222821_000000402058_00359_27467_5479.N1	01-JUN-2007 22:28:21	Straylight	40.000	141	Bet Ara	2.8400	4600.0	80	27467	No
280	GOM_NL__2PRFIN20070601_222936_000000412058_00359_27467_5480.N1	01-JUN-2007 22:29:36	Straylight	40.500	147	Alp Ara	2.8770	26000.	81	27467	No
281	GOM_NL__2PRFIN20070601_223118_000000472058_00359_27467_5481.N1	01-JUN-2007 22:31:18	Straylight	46.500	40	The Sco	1.8590	7100.0	93	27467	No
282	GOM_NL__2PRFIN20070601_223306_000000482058_00359_27467_5482.N1	01-JUN-2007 22:33:06	Tw_i_and_stray	48.000	25	35Lam Sco	1.6200	28000.	96	27467	No
283	GOM_NL__2PRFIN20070601_223451_000000442058_00359_27467_5483.N1	01-JUN-2007 22:34:51	Tw_i_and_stray	43.500	75	26Eps Sco	2.2910	4250.0	87	27467	No
284	GOM_NL__2PRFIN20070601_223653_000000402058_00359_27467_5484.N1	01-JUN-2007 22:36:53	Bright	39.500	136	23Tau Sco	2.8220	30000.	79	27467	No
285	GOM_NL__2PRFIN20070601_223944_000000382058_00359_27467_5485.N1	01-JUN-2007 22:39:44	Bright	38.000	97	8Bet1Sco	2.5610	30000.	76	27467	No
286	GOM_NL__2PRFIN20070601_224221_000000422058_00359_27467_5486.N1	01-JUN-2007 22:42:21	Bright	41.500	98	13Zet Oph	2.5710	30000.	83	27467	No
287	GOM_NL__2PRFIN20070601_224432_000000392058_00359_27467_5487.N1	01-JUN-2007 22:44:32	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	27467	No
288	GOM_NL__2PRFIN20070601_224733_000000362058_00359_27467_5488.N1	01-JUN-2007 22:47:33	Bright	36.000	102	24Alp Ser	2.6000	4250.0	72	27467	No
289	GOM_NL__2PRFIN20070601_225327_000000362058_00359_27467_5489.N1	01-JUN-2007 22:53:27	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	27467	No
290	GOM_NL__2PRFIN20070601_230401_000000392058_00359_27467_5490.N1	01-JUN-2007 23:04:01	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	27467	No
291	GOM_NL__2PRFIN20070601_230644_000000362058_00359_27467_5491.N1	01-JUN-2007 23:06:44	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	27467	No
292	GOM_NL__2PRFIN20070601_231125_000000352058_00359_27467_5492.N1	01-JUN-2007 23:11:25	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	27467	No
293	GOM_NL__2PRFIN20070601_231927_000000382058_00359_27467_5493.N1	01-JUN-2007 23:19:27	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	27467	No
294	GOM_NL__2PRFIN20070601_232713_000000432058_00359_27467_5494.N1	01-JUN-2007 23:27:13	Bright	42.500	53	43Bet And	2.0480	3300.0	85	27467	No
295	GOM_NL__2PRFIN20070601_234355_000000502058_00359_27467_5495.N1	01-JUN-2007 23:43:55	Dark	50.000	52	16Bet Cet	2.0370	4500.0	100	27467	No
296	GOM_NL__2PRFIN20070601_235037_000000402058_00359_27467_5496.N1	01-JUN-2007 23:50:37	Dark	40.000	84	Alp Phe	2.3970	4500.0	80	27467	No
297	GOM_NL__2PRFIN20070601_235558_000000572058_00360_27468_5490.N1	01-JUN-2007 23:55:58	Dark	56.500	63	Bet Gru	2.1500	2800.0	113	27468	No
298	GOM_NL__2PRFIN20070601_235751_000000472058_00360_27468_5491.N1	01-JUN-2007 23:57:51	Dark	47.000	31	Alp Gru	1.7340	15200.	94	27468	No

3. Quality information per product

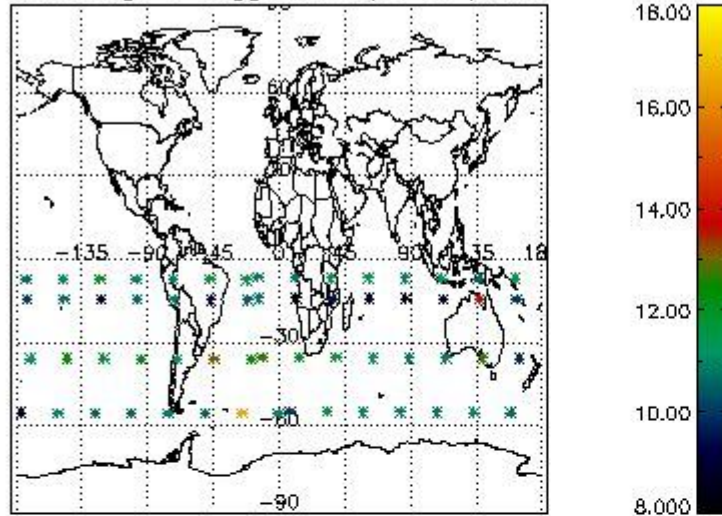
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

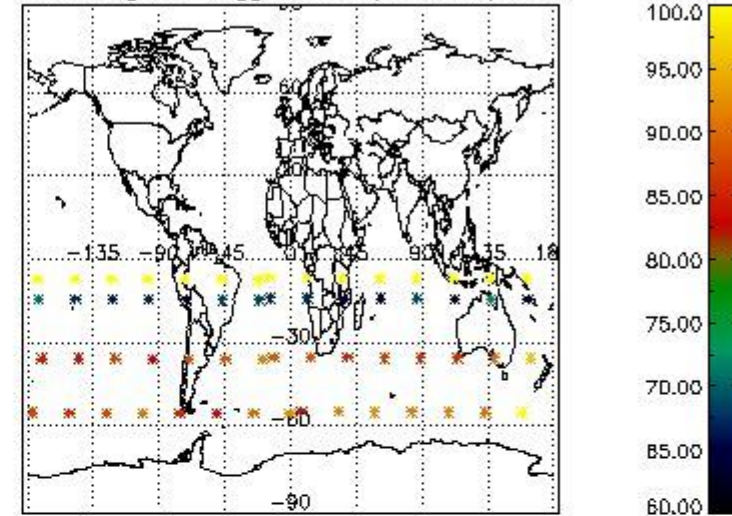


3.2 Plot quality information per product (world map)

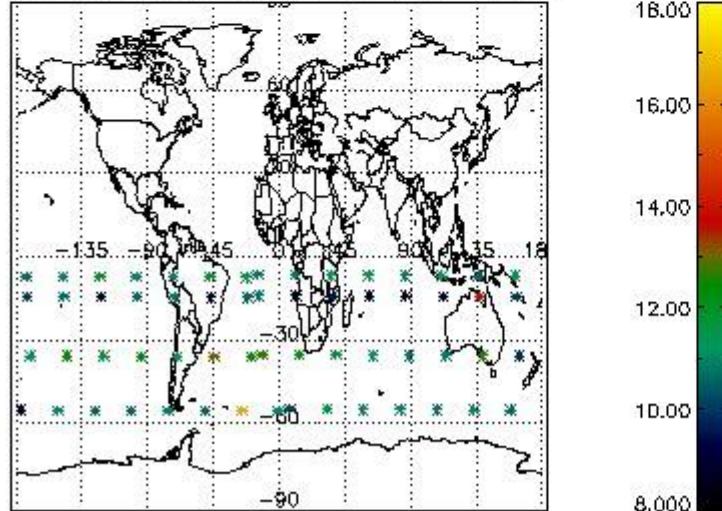
Percentage of flagged data per O3 profile



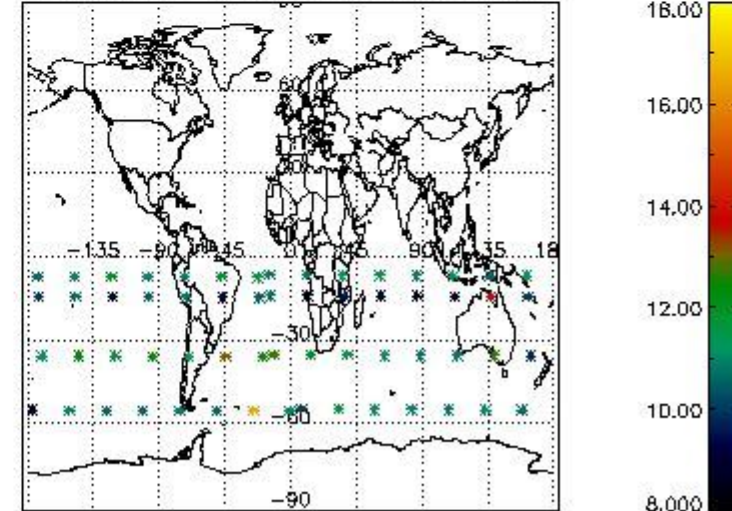
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

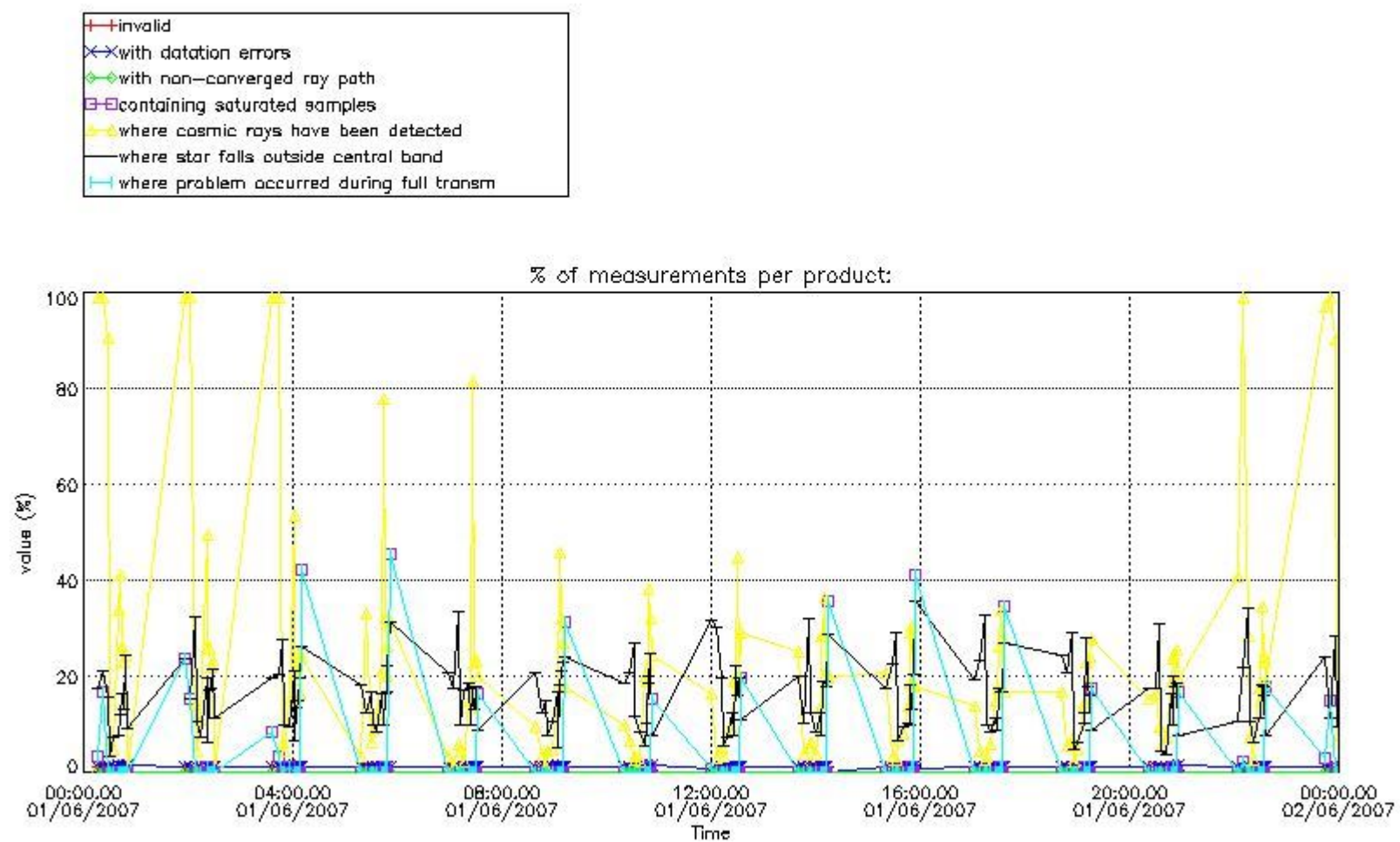


4. Level 1 quality information per product

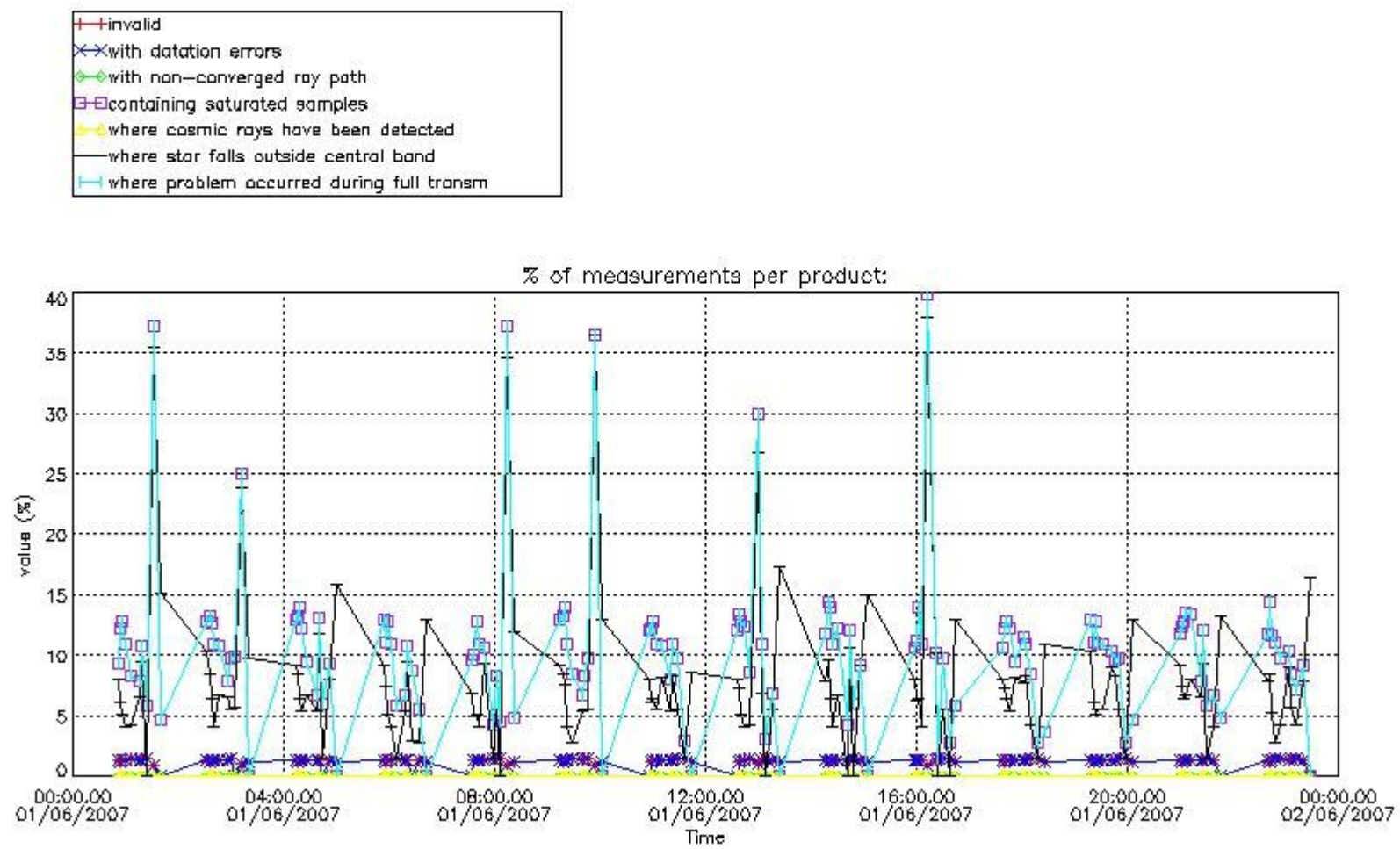
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



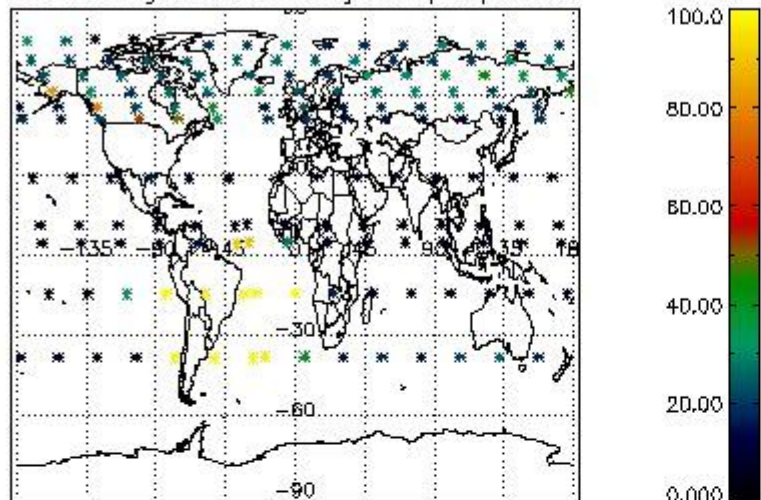
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



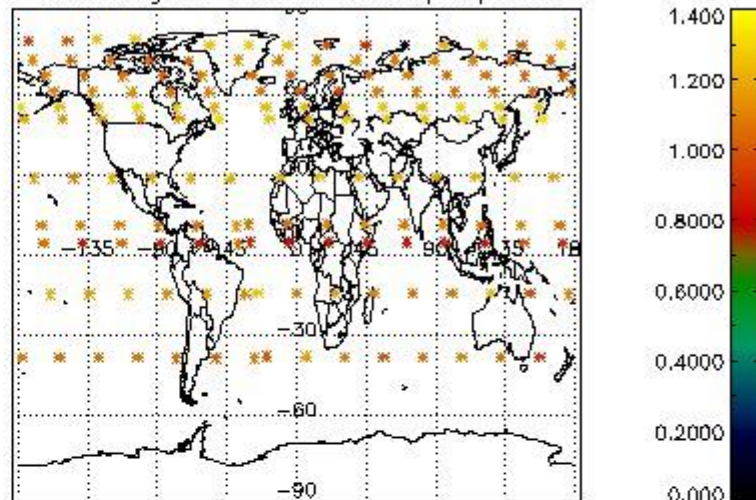
4.2 Plot quality information per product coming from level 1b processing (world map)

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

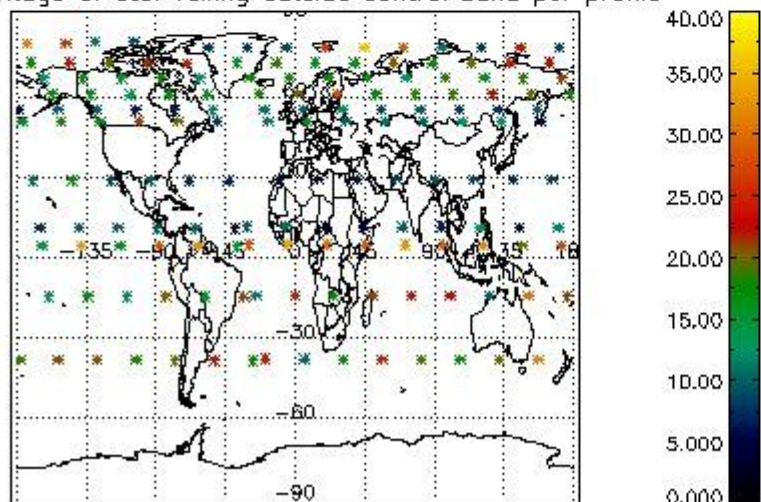
Percentage of cosmic ray hits per profile



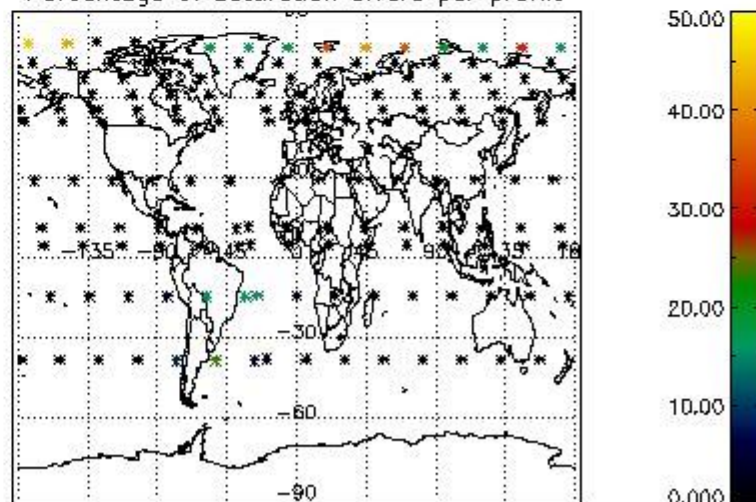
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

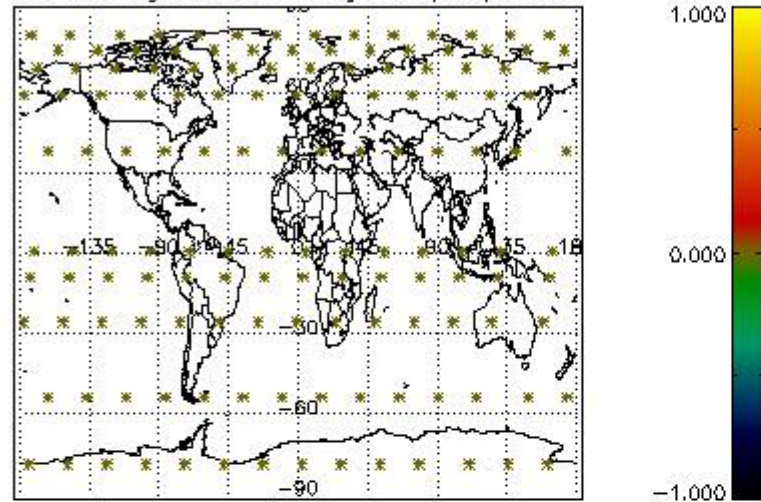


Percentage of saturation errors per profile

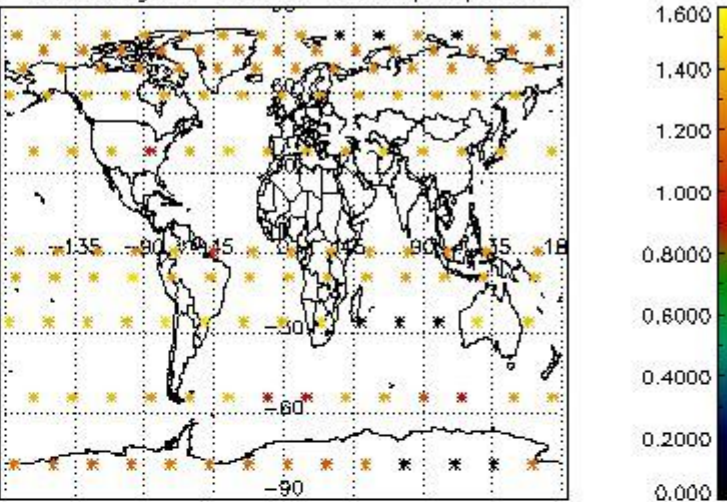


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

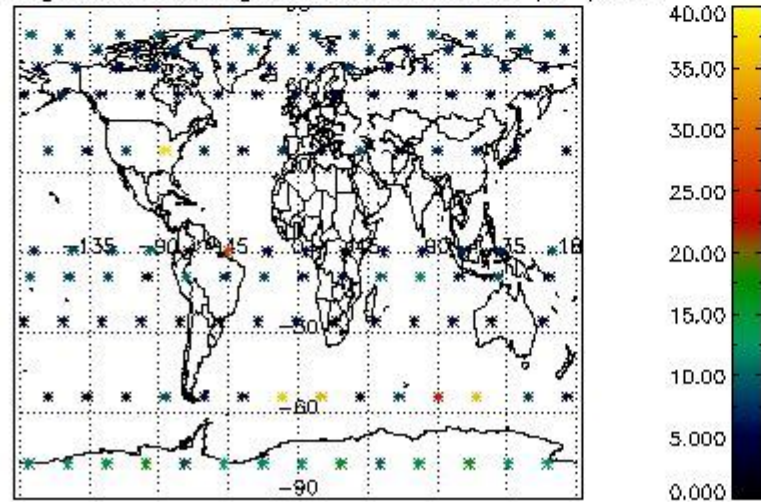
Percentage of cosmic ray hits per profile



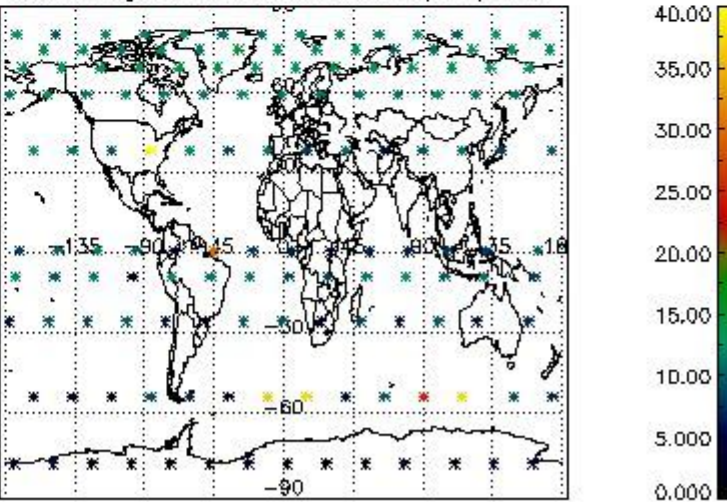
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

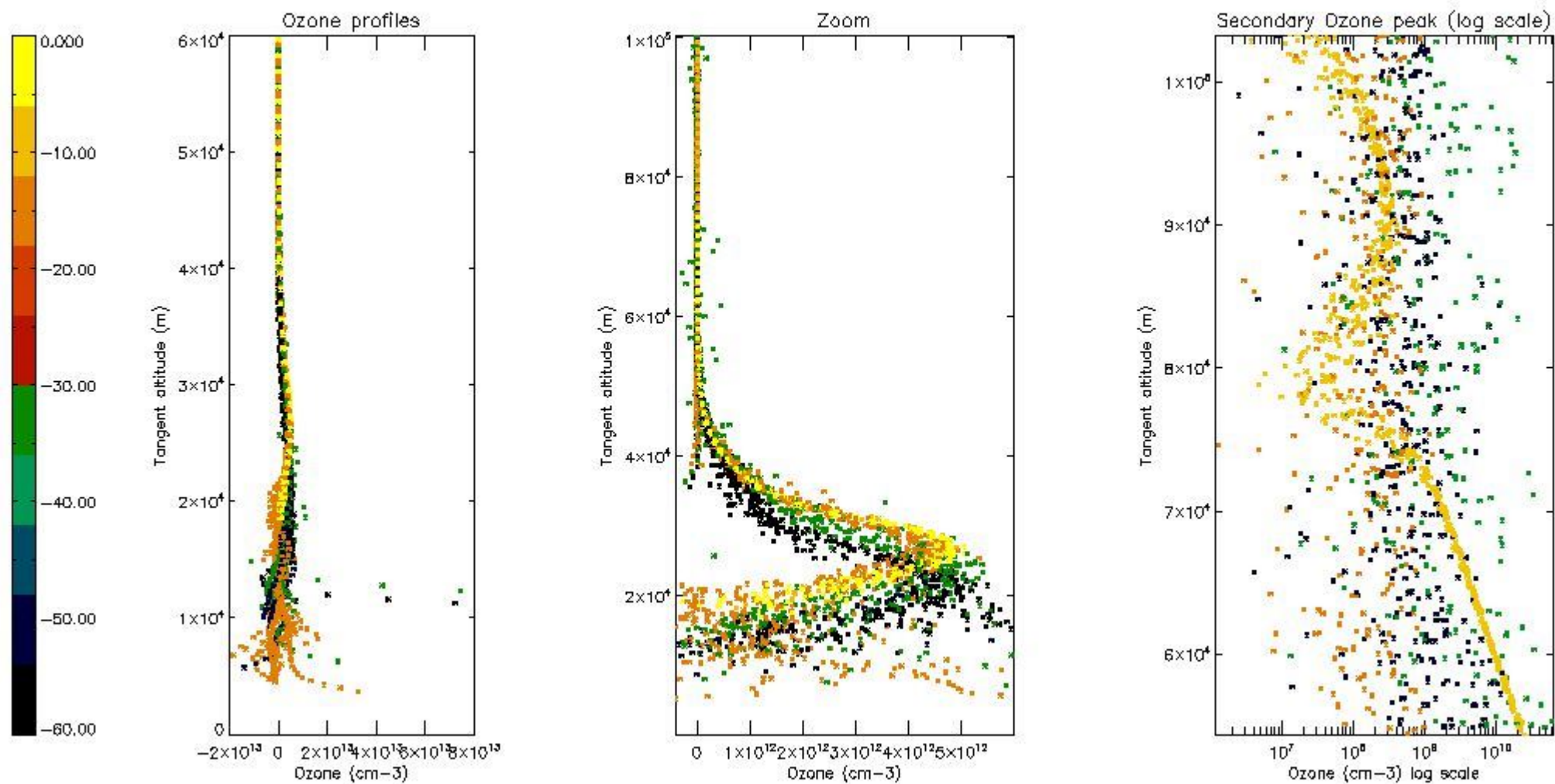
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	8

STD < 10	5
STD < 5	3

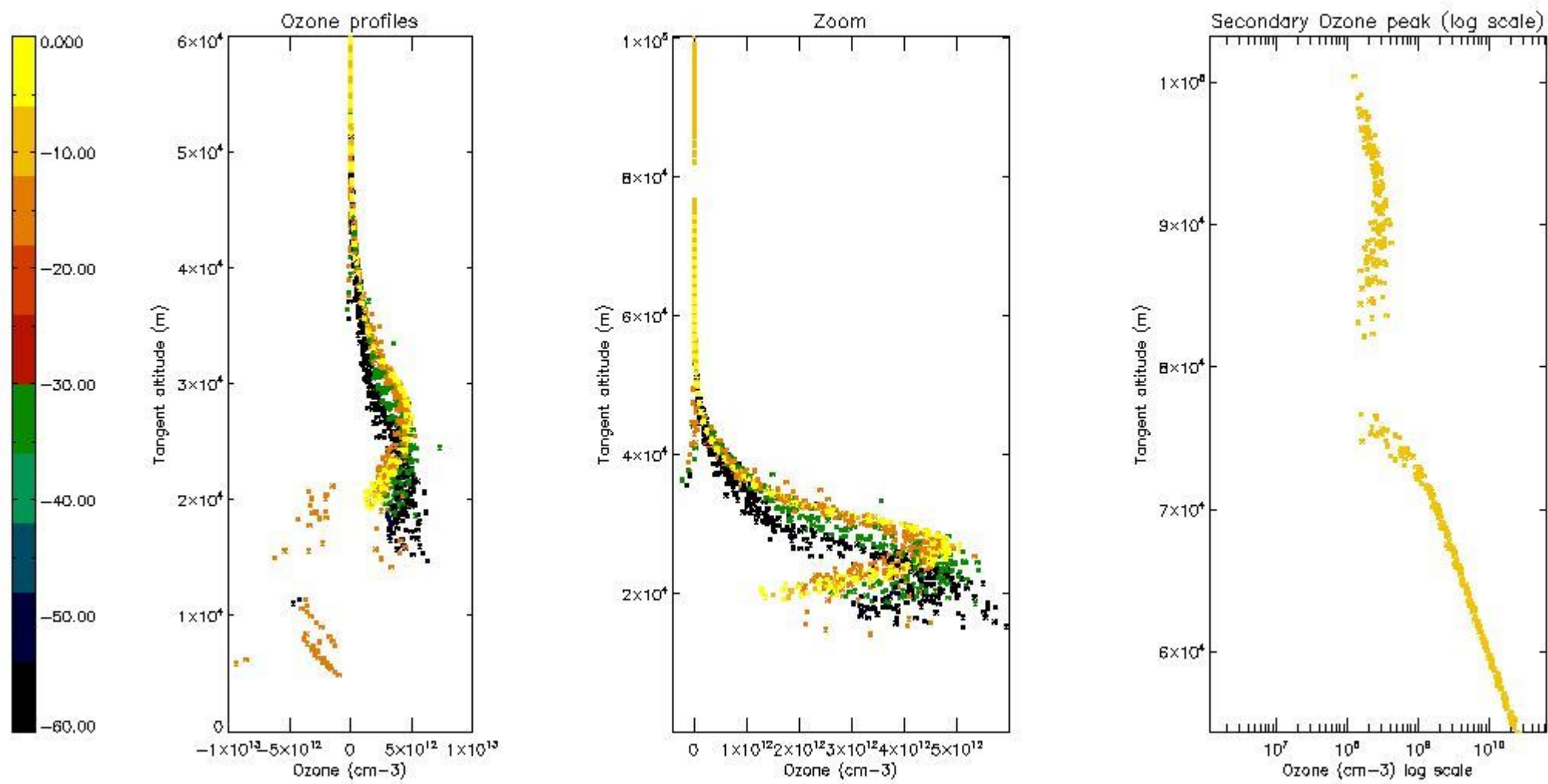
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



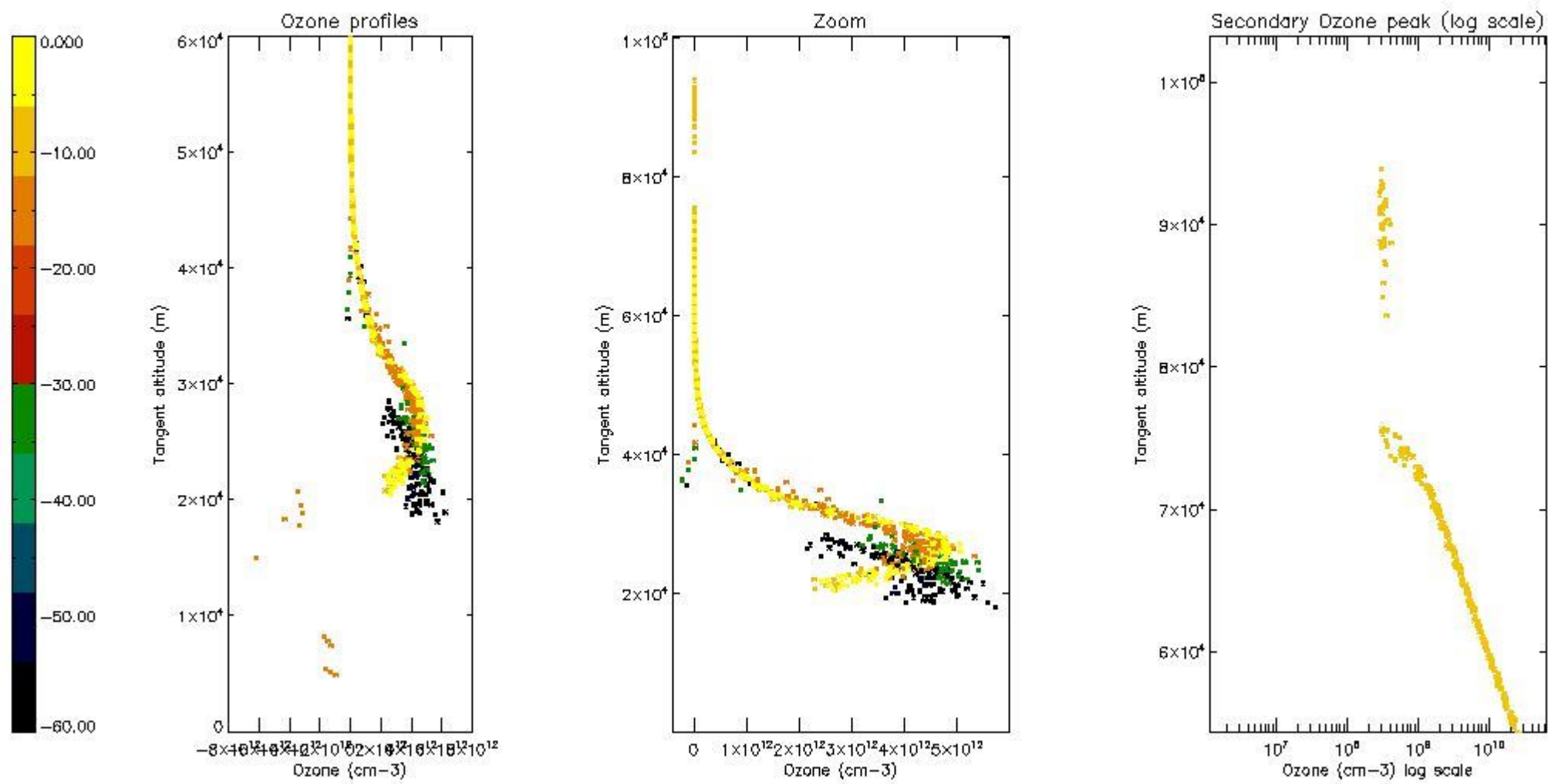
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



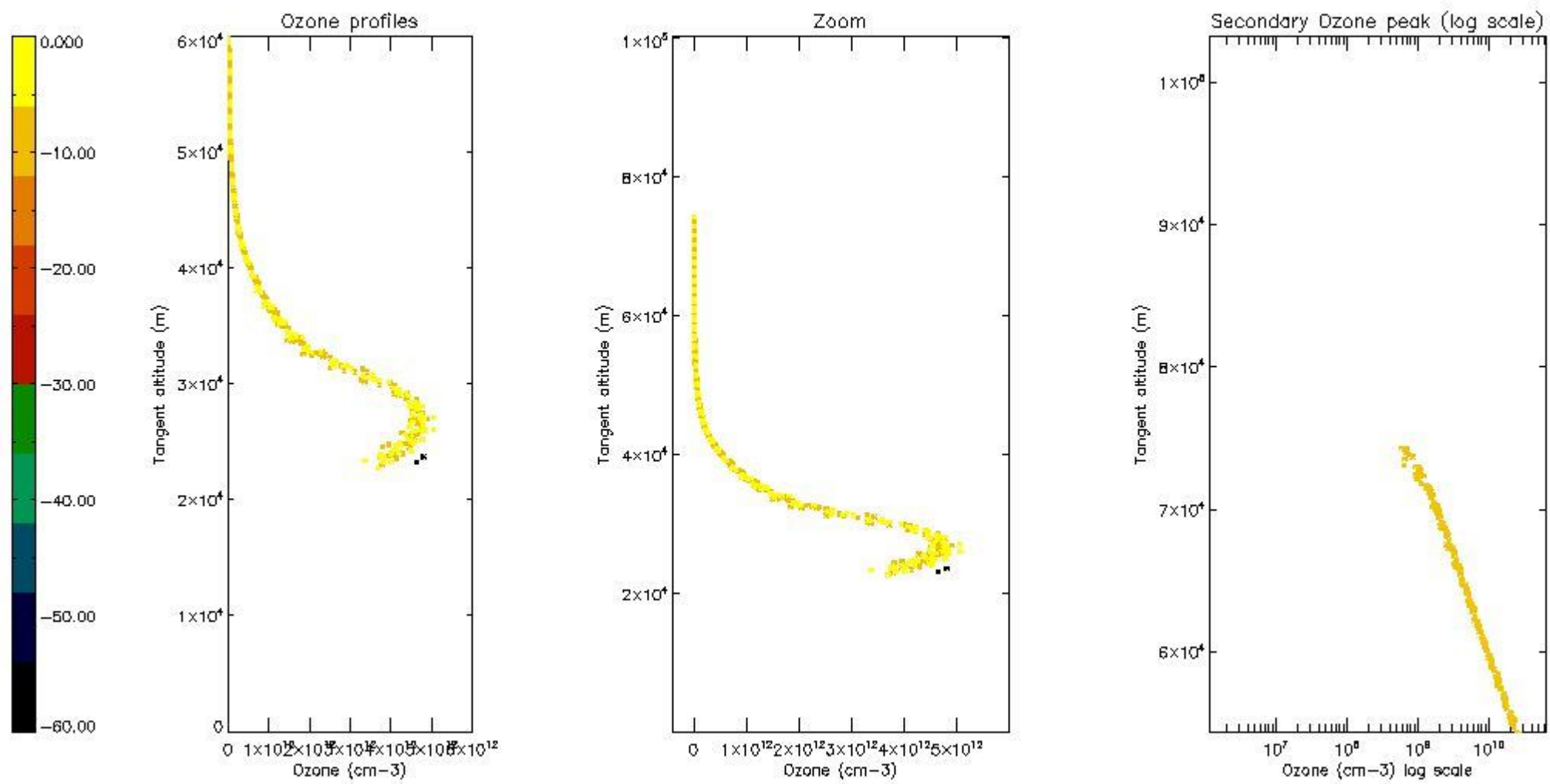
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



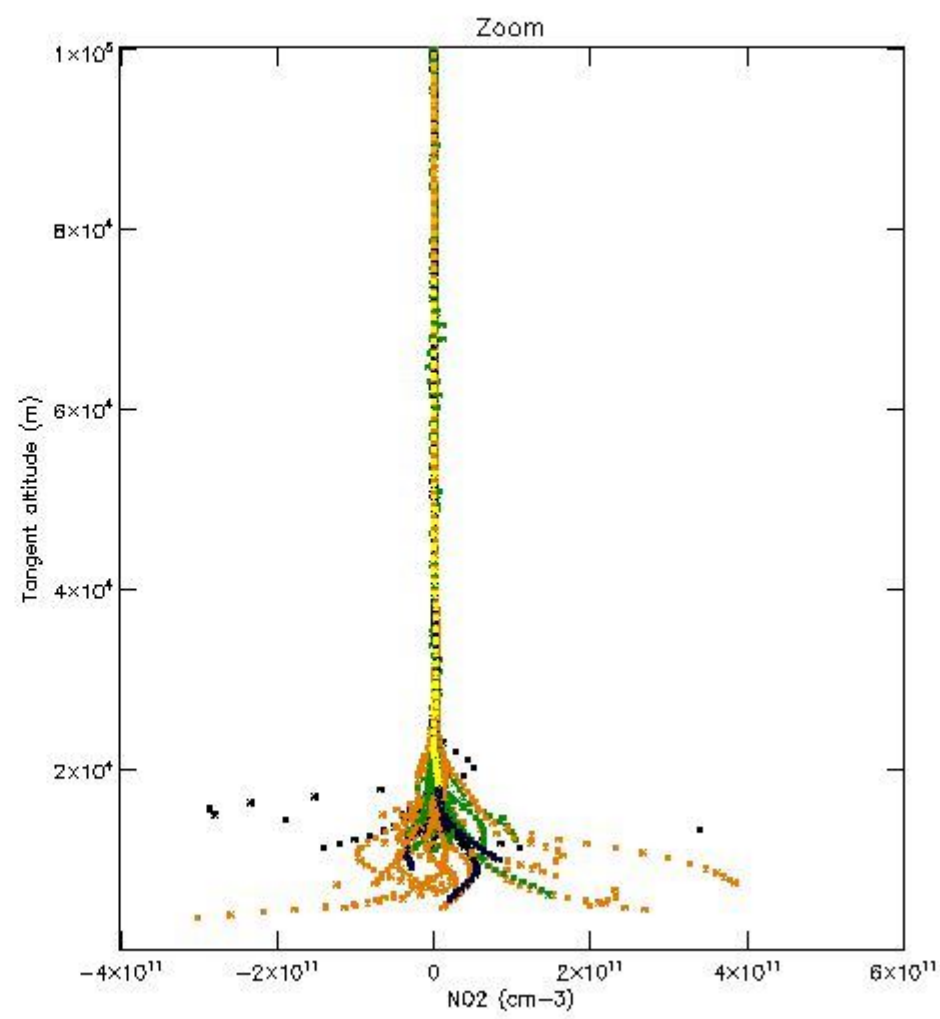
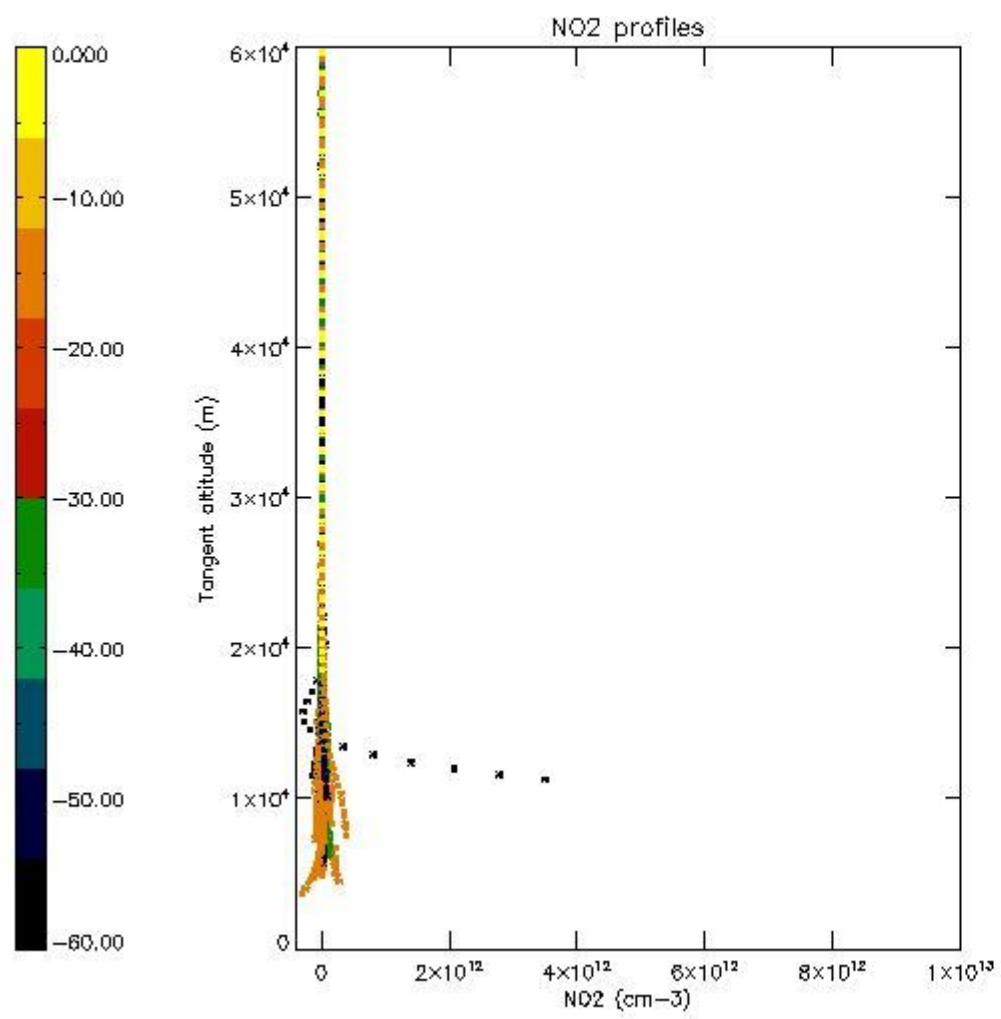
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



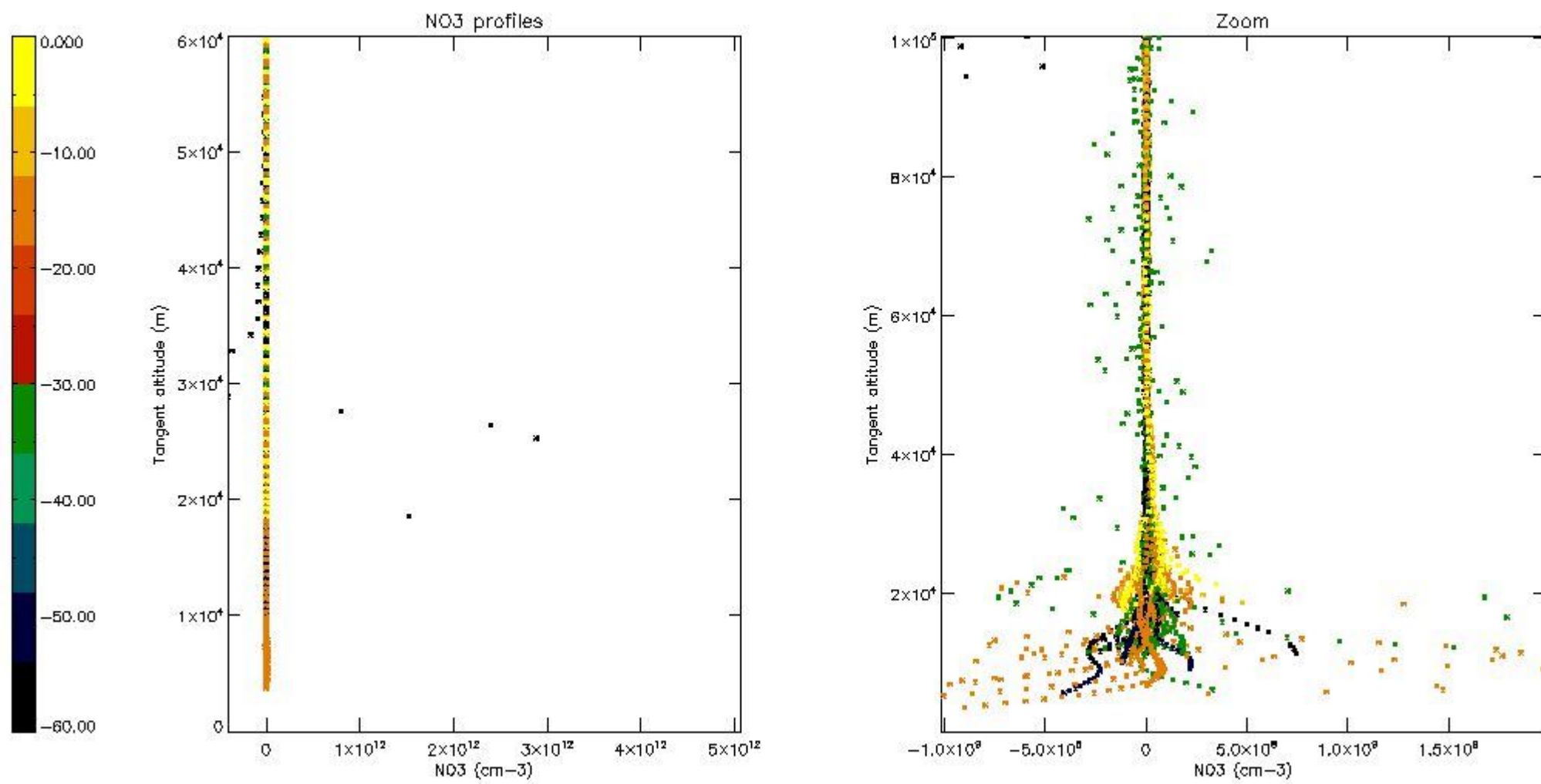
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



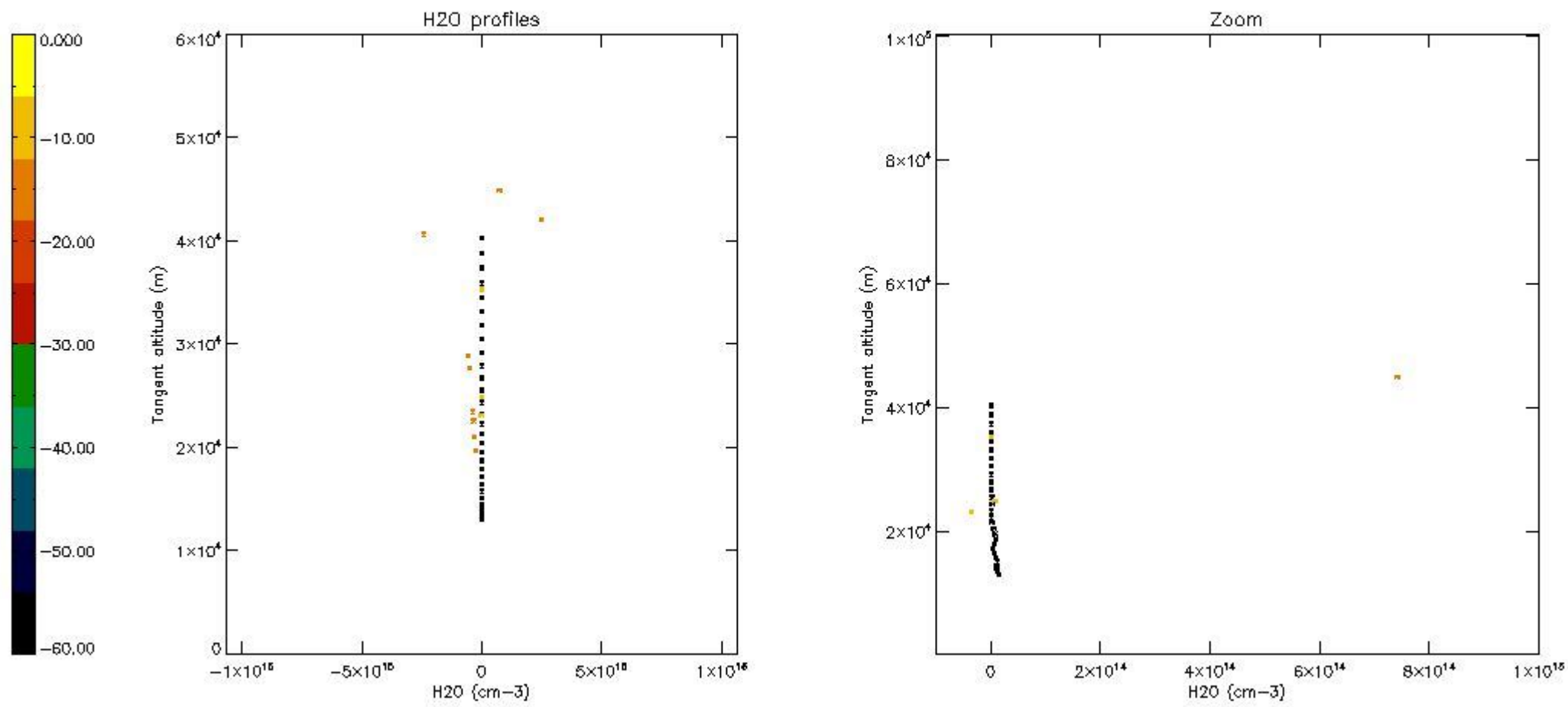
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	01-JUN-2007 00:15:23
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	01-JUN-2007 00:15:23
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	01-JUN-2007 00:15:23

GOMOS Level 2 Daily Report

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[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](#)

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

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

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

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

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

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

Item	Value
Time of report generation	22APR2013 20:15:01
Data source version	GOMOS/6.01
Start time of products	01-06-2007 (01JUN2007 00:00:00)
Stop time of products	02-06-2007 (02JUN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	298
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

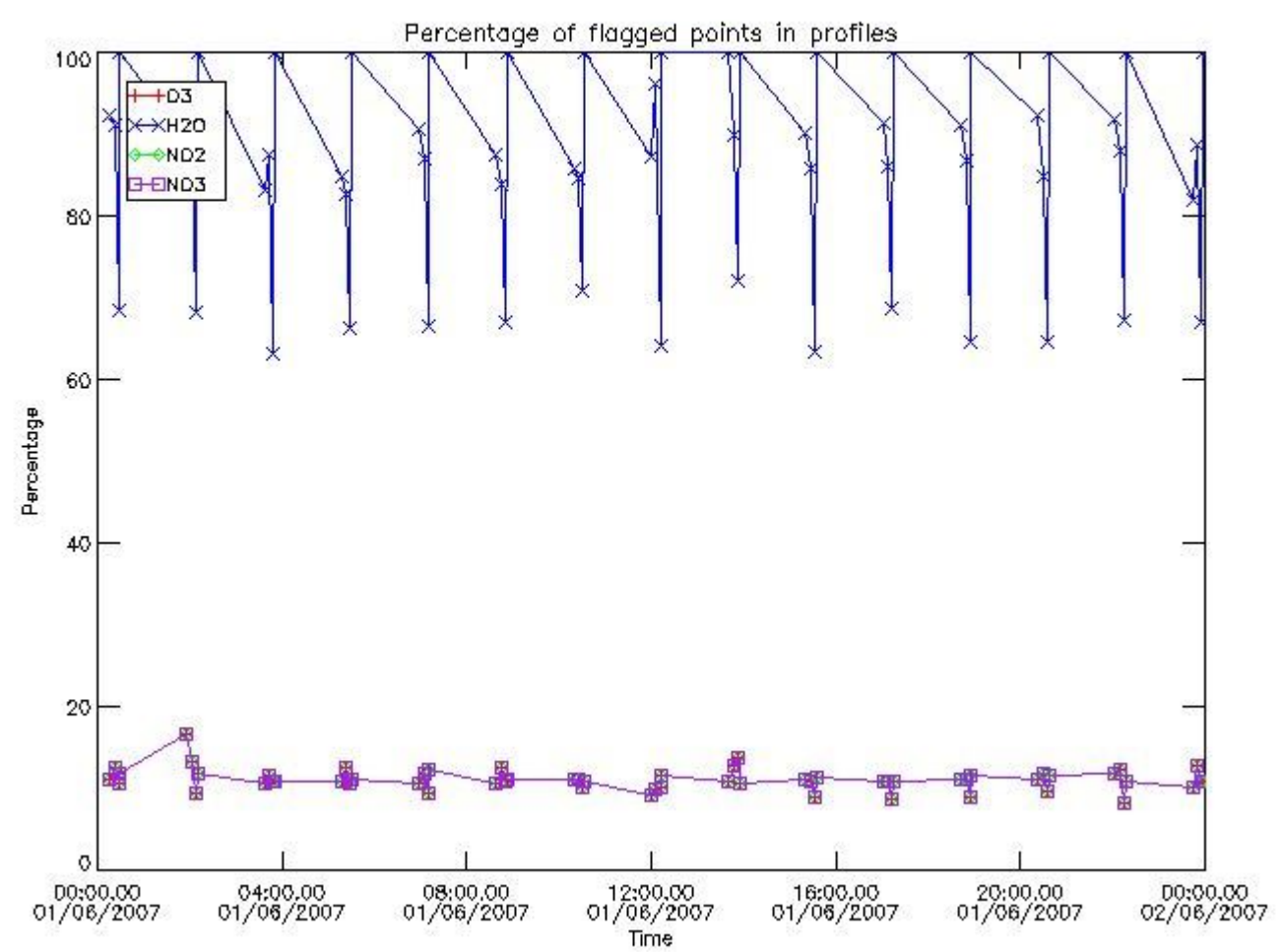
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070601_001523_000000462058_00345_27453_5135.N1	01-JUN-2007 00:15:23	Dark	46.000	52	16Bet Cet	2.0370	4500.0	92	27453	No
2	GOM_NL__2PRFIN20070601_002206_000000452058_00345_27453_5136.N1	01-JUN-2007 00:22:06	Dark	45.000	84	Alp Phe	2.3970	4500.0	90	27453	No
3	GOM_NL__2PRFIN20070601_002723_000000482058_00346_27454_5144.N1	01-JUN-2007 00:27:23	Dark	48.000	63	Bet Gru	2.1500	2800.0	96	27454	No
4	GOM_NL__2PRFIN20070601_002915_000000442058_00346_27454_5145.N1	01-JUN-2007 00:29:15	Dark	43.500	31	Alp Gru	1.7340	15200.	87	27454	No
5	GOM_NL__2PRFIN20070601_003415_000000422058_00346_27454_5146.N1	01-JUN-2007 00:34:15	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	27454	No
6	GOM_NL__2PRFIN20070601_004029_000000392058_00346_27454_5147.N1	01-JUN-2007 00:40:29	Straylight	38.500	141	Bet Ara	2.8400	4600.0	77	27454	No
7	GOM_NL__2PRFIN20070601_004144_000000422058_00346_27454_5148.N1	01-JUN-2007 00:41:44	Straylight	41.500	147	Alp Ara	2.8770	26000.	83	27454	No
8	GOM_NL__2PRFIN20070601_004325_000000462058_00346_27454_5149.N1	01-JUN-2007 00:43:25	Straylight	46.000	40	The Sco	1.8590	7100.0	92	27454	No
9	GOM_NL__2PRFIN20070601_004513_000000462058_00346_27454_5150.N1	01-JUN-2007 00:45:13	Tw_i_and_stray	46.000	25	35Lam Sco	1.6200	28000.	92	27454	No
10	GOM_NL__2PRFIN20070601_004700_000000492058_00346_27454_5151.N1	01-JUN-2007 00:47:00	Tw_i_and_stray	49.000	75	26Eps Sco	2.2910	4250.0	98	27454	No
11	GOM_NL__2PRFIN20070601_005001_000000392058_00346_27454_5152.N1	01-JUN-2007 00:50:01	Bright	39.000	156	20Sig Sco	2.9030	28000.	78	27454	No
12	GOM_NL__2PRFIN20070601_005154_000000382058_00346_27454_5153.N1	01-JUN-2007 00:51:54	Bright	37.500	97	8Bet1Sco	2.5610	30000.	75	27454	No
13	GOM_NL__2PRFIN20070601_005434_000000412058_00346_27454_5154.N1	01-JUN-2007 00:54:34	Bright	41.000	98	13Zet Oph	2.5710	30000.	82	27454	No
14	GOM_NL__2PRFIN20070601_005645_000000392058_00346_27454_5155.N1	01-JUN-2007 00:56:45	Bright	39.000	120	1Del Oph	2.7340	3200.0	78	27454	No
15	GOM_NL__2PRFIN20070601_005946_000000372058_00346_27454_5156.N1	01-JUN-2007 00:59:46	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	27454	No
16	GOM_NL__2PRFIN20070601_010541_000000362058_00346_27454_5157.N1	01-JUN-2007 01:05:41	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	27454	No
17	GOM_NL__2PRFIN20070601_011618_000000382058_00346_27454_5158.N1	01-JUN-2007 01:16:18	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	27454	No
18	GOM_NL__2PRFIN20070601_011857_000000372058_00346_27454_5159.N1	01-JUN-2007 01:18:57	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	27454	No
19	GOM_NL__2PRFIN20070601_012338_000000342058_00346_27454_5160.N1	01-JUN-2007 01:23:38	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	27454	No
20	GOM_NL__2PRFIN20070601_013141_000000552058_00346_27454_5161.N1	01-JUN-2007 01:31:41	Bright	55.000	76	27Gam Cas	2.3000	30000.	110	27454	No
21	GOM_NL__2PRFIN20070601_013925_000000432058_00346_27454_5162.N1	01-JUN-2007 01:39:25	Bright	43.000	53	43Bet And	2.0480	3300.0	86	27454	No
22	GOM_NL__2PRFIN20070601_015600_000000492058_00346_27454_5163.N1	01-JUN-2007 01:56:00	Dark	49.000	52	16Bet Cet	2.0370	4500.0	98	27454	No
23	GOM_NL__2PRFIN20070601_020242_000000432058_00346_27454_5164.N1	01-JUN-2007 02:02:42	Dark	42.500	84	Alp Phe	2.3970	4500.0	85	27454	No
24	GOM_NL__2PRFIN20070601_020800_000000602058_00347_27455_5166.N1	01-JUN-2007 02:08:00	Dark	60.000	63	Bet Gru	2.1500	2800.0	120	27455	No
25	GOM_NL__2PRFIN20070601_020952_000000472058_00347_27455_5167.N1	01-JUN-2007 02:09:52	Dark	47.000	31	Alp Gru	1.7340	15200.	94	27455	No
26	GOM_NL__2PRFIN20070601_021452_000000422058_00347_27455_5168.N1	01-JUN-2007 02:14:52	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	27455	No
27	GOM_NL__2PRFIN20070601_022105_000000442058_00347_27455_5169.N1	01-JUN-2007 02:21:05	Straylight	43.500	141	Bet Ara	2.8400	4600.0	87	27455	No
28	GOM_NL__2PRFIN20070601_022220_000000402058_00347_27455_5170.N1	01-JUN-2007 02:22:20	Straylight	39.500	147	Alp Ara	2.8770	26000.	79	27455	No
29	GOM_NL__2PRFIN20070601_022401_000000472058_00347_27455_5171.N1	01-JUN-2007 02:24:01	Straylight	46.500	40	The Sco	1.8590	7100.0	93	27455	No
30	GOM_NL__2PRFIN20070601_022549_000000492058_00347_27455_5172.N1	01-JUN-2007 02:25:49	Tw_i_and_stray	48.500	25	35Lam Sco	1.6200	28000.	97	27455	No
31	GOM_NL__2PRFIN20070601_022736_000000472058_00347_27455_5173.N1	01-JUN-2007 02:27:36	Tw_i_and_stray	47.000	75	26Eps Sco	2.2910	4250.0	94	27455	No
32	GOM_NL__2PRFIN20070601_023038_000000402058_00347_27455_5174.N1	01-JUN-2007 02:30:38	Bright	40.000	156	20Sig Sco	2.9030	28000.	80	27455	No
33	GOM_NL__2PRFIN20070601_023230_000000392058_00347_27455_5175.N1	01-JUN-2007 02:32:30	Bright	39.000	97	8Bet1Sco	2.5610	30000.	78	27455	No
34	GOM_NL__2PRFIN20070601_023510_000000422058_00347_27455_5176.N1	01-JUN-2007 02:35:10	Bright	41.500	98	13Zet Oph	2.5710	30000.	83	27455	No
35	GOM_NL__2PRFIN20070601_023721_000000402058_00347_27455_5177.N1	01-JUN-2007 02:37:21	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	27455	No
36	GOM_NL__2PRFIN20070601_024022_000000372058_00347_27455_5178.N1	01-JUN-2007 02:40:22	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	27455	No
37	GOM_NL__2PRFIN20070601_024617_000000372058_00347_27455_5179.N1	01-JUN-2007 02:46:17	Bright	37.000	67	5Alp CrB	2.2210	11000.	74	27455	No
38	GOM_NL__2PRFIN20070601_025654_000000382058_00347_27455_5180.N1	01-JUN-2007 02:56:54	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	27455	No
39	GOM_NL__2PRFIN20070601_025933_000000362058_00347_27455_5181.N1	01-JUN-2007 02:59:33	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	27455	No
40	GOM_NL__2PRFIN20070601_030414_000000362058_00347_27455_5182.N1	01-JUN-2007 03:04:14	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	27455	No
41	GOM_NL__2PRFIN20070601_031217_000000462058_00347_27455_5183.N1	01-JUN-2007 03:12:17	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	27455	No
42	GOM_NL__2PRFIN20070601_032001_000000412058_00347_27455_5184.N1	01-JUN-2007 03:20:01	Bright	41.000	53	43Bet And	2.0480	3300.0	82	27455	No

279	GOM_NL__2PRFIN20070601_222821_000000402058_00359_27467_5479.N1	01-JUN-2007 22:28:21	Straylight	40.000	141	Bet Ara	2.8400	4600.0	80	27467	No
280	GOM_NL__2PRFIN20070601_222936_000000412058_00359_27467_5480.N1	01-JUN-2007 22:29:36	Straylight	40.500	147	Alp Ara	2.8770	26000.	81	27467	No
281	GOM_NL__2PRFIN20070601_223118_000000472058_00359_27467_5481.N1	01-JUN-2007 22:31:18	Straylight	46.500	40	The Sco	1.8590	7100.0	93	27467	No
282	GOM_NL__2PRFIN20070601_223306_000000482058_00359_27467_5482.N1	01-JUN-2007 22:33:06	Tw_i_and_stray	48.000	25	35Lam Sco	1.6200	28000.	96	27467	No
283	GOM_NL__2PRFIN20070601_223451_000000442058_00359_27467_5483.N1	01-JUN-2007 22:34:51	Tw_i_and_stray	43.500	75	26Eps Sco	2.2910	4250.0	87	27467	No
284	GOM_NL__2PRFIN20070601_223653_000000402058_00359_27467_5484.N1	01-JUN-2007 22:36:53	Bright	39.500	136	23Tau Sco	2.8220	30000.	79	27467	No
285	GOM_NL__2PRFIN20070601_223944_000000382058_00359_27467_5485.N1	01-JUN-2007 22:39:44	Bright	38.000	97	8Bet1Sco	2.5610	30000.	76	27467	No
286	GOM_NL__2PRFIN20070601_224221_000000422058_00359_27467_5486.N1	01-JUN-2007 22:42:21	Bright	41.500	98	13Zet Oph	2.5710	30000.	83	27467	No
287	GOM_NL__2PRFIN20070601_224432_000000392058_00359_27467_5487.N1	01-JUN-2007 22:44:32	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	27467	No
288	GOM_NL__2PRFIN20070601_224733_000000362058_00359_27467_5488.N1	01-JUN-2007 22:47:33	Bright	36.000	102	24Alp Ser	2.6000	4250.0	72	27467	No
289	GOM_NL__2PRFIN20070601_225327_000000362058_00359_27467_5489.N1	01-JUN-2007 22:53:27	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	27467	No
290	GOM_NL__2PRFIN20070601_230401_000000392058_00359_27467_5490.N1	01-JUN-2007 23:04:01	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	27467	No
291	GOM_NL__2PRFIN20070601_230644_000000362058_00359_27467_5491.N1	01-JUN-2007 23:06:44	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	27467	No
292	GOM_NL__2PRFIN20070601_231125_000000352058_00359_27467_5492.N1	01-JUN-2007 23:11:25	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	27467	No
293	GOM_NL__2PRFIN20070601_231927_000000382058_00359_27467_5493.N1	01-JUN-2007 23:19:27	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	27467	No
294	GOM_NL__2PRFIN20070601_232713_000000432058_00359_27467_5494.N1	01-JUN-2007 23:27:13	Bright	42.500	53	43Bet And	2.0480	3300.0	85	27467	No
295	GOM_NL__2PRFIN20070601_234355_000000502058_00359_27467_5495.N1	01-JUN-2007 23:43:55	Dark	50.000	52	16Bet Cet	2.0370	4500.0	100	27467	No
296	GOM_NL__2PRFIN20070601_235037_000000402058_00359_27467_5496.N1	01-JUN-2007 23:50:37	Dark	40.000	84	Alp Phe	2.3970	4500.0	80	27467	No
297	GOM_NL__2PRFIN20070601_235558_000000572058_00360_27468_5490.N1	01-JUN-2007 23:55:58	Dark	56.500	63	Bet Gru	2.1500	2800.0	113	27468	No
298	GOM_NL__2PRFIN20070601_235751_000000472058_00360_27468_5491.N1	01-JUN-2007 23:57:51	Dark	47.000	31	Alp Gru	1.7340	15200.	94	27468	No

3. Quality information per product

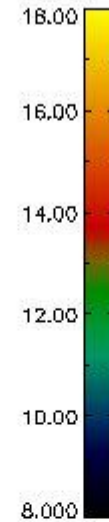
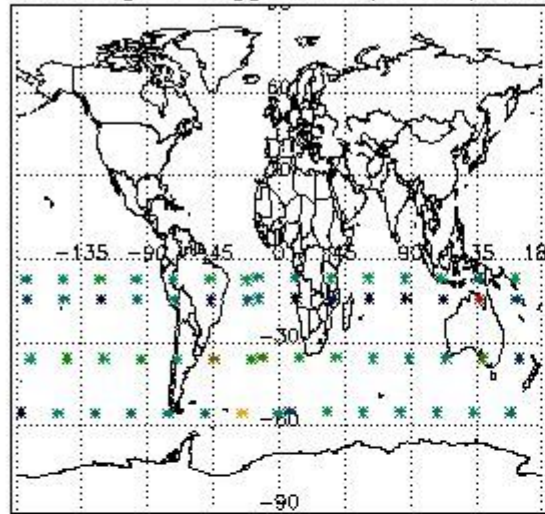
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

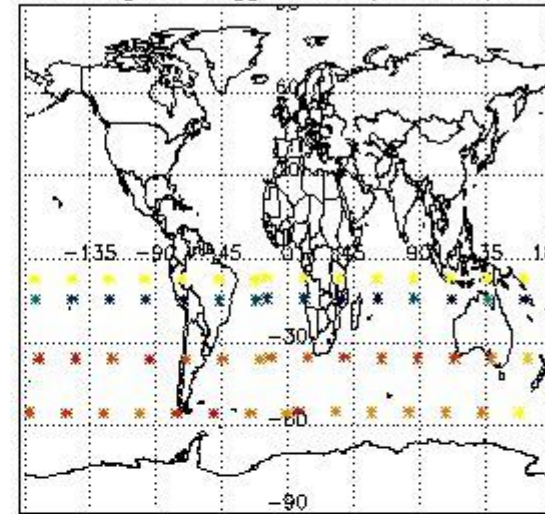


3.2 Plot quality information per product (world map)

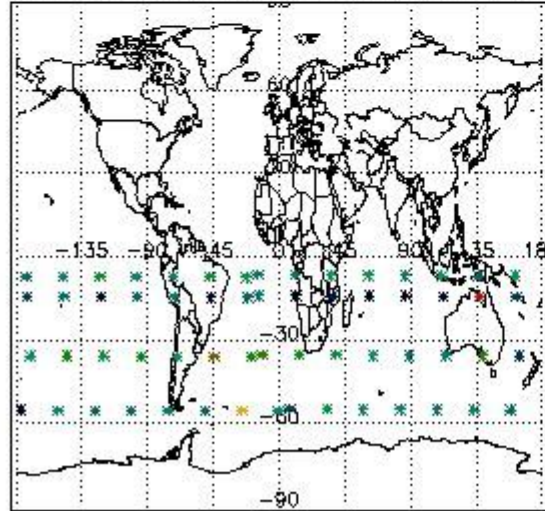
Percentage of flagged data per O3 profile



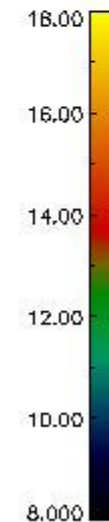
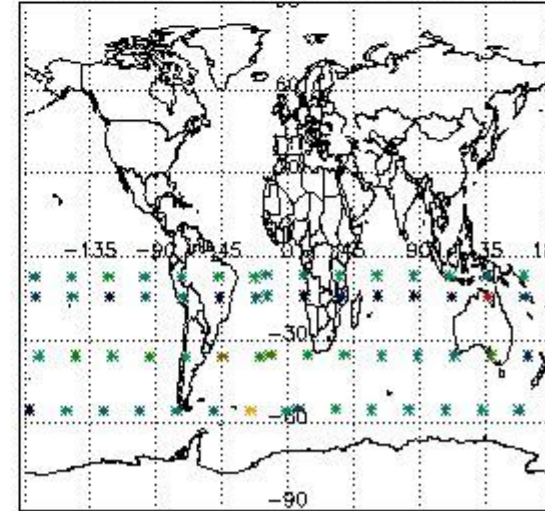
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

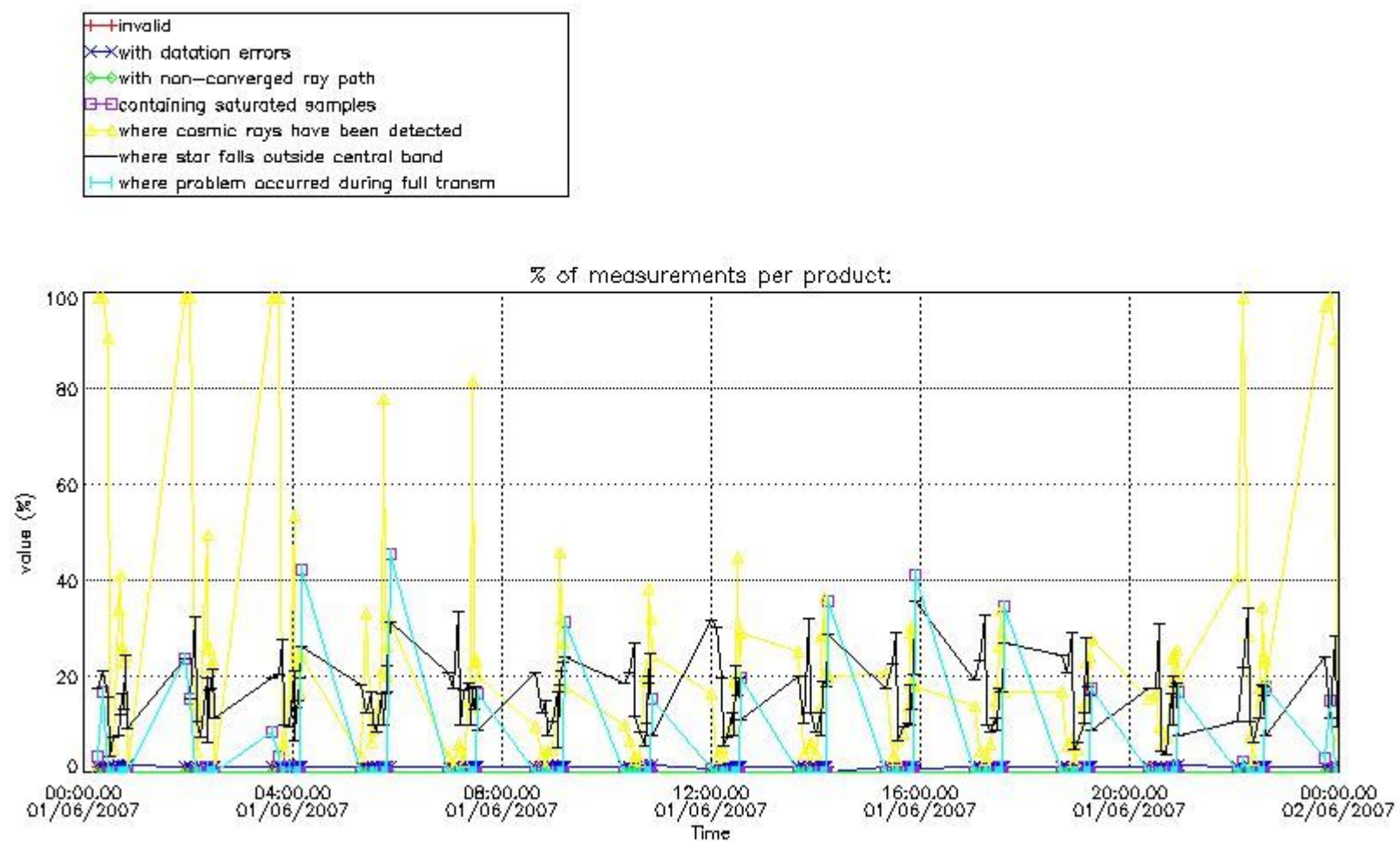


4. Level 1 quality information per product

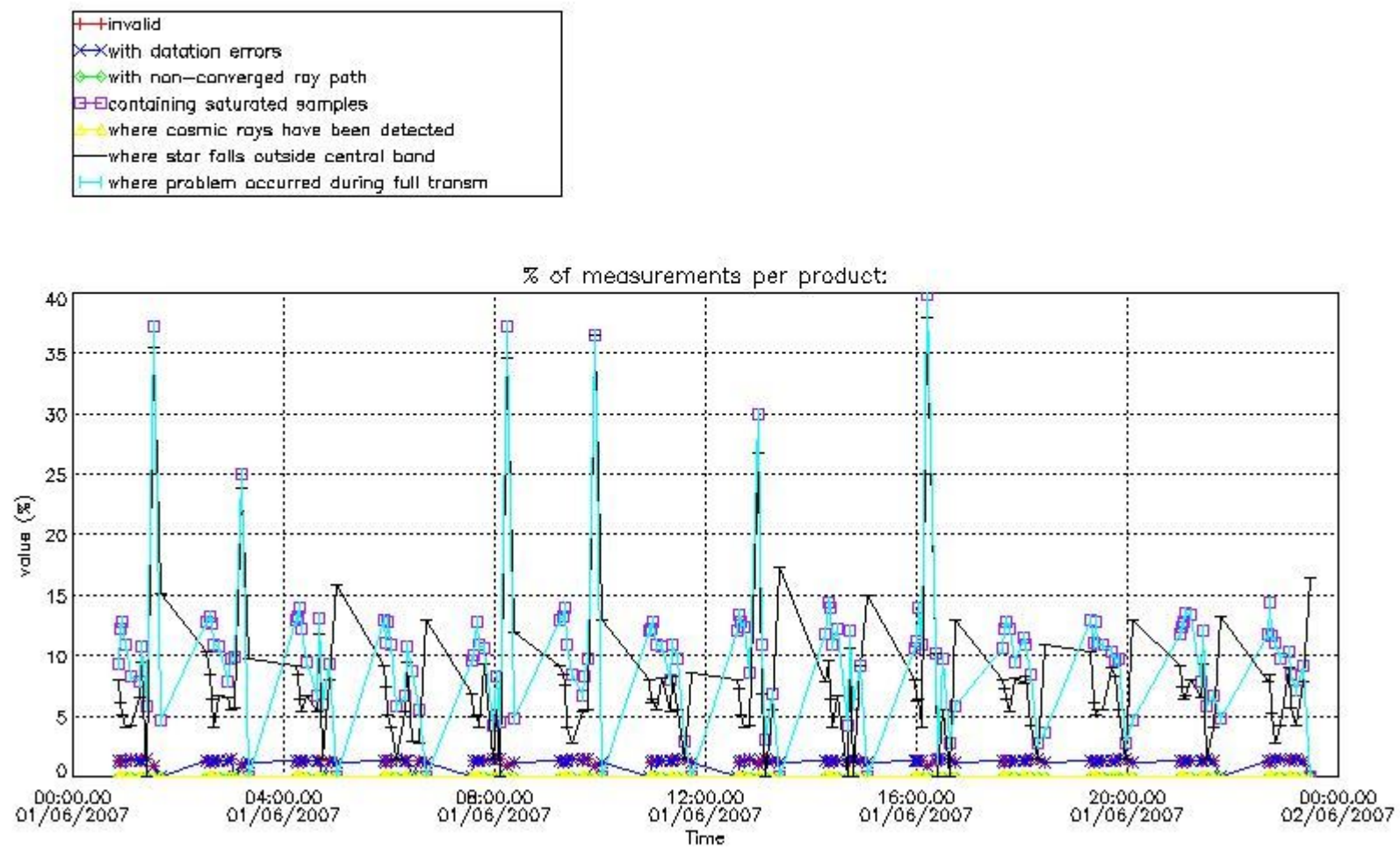
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



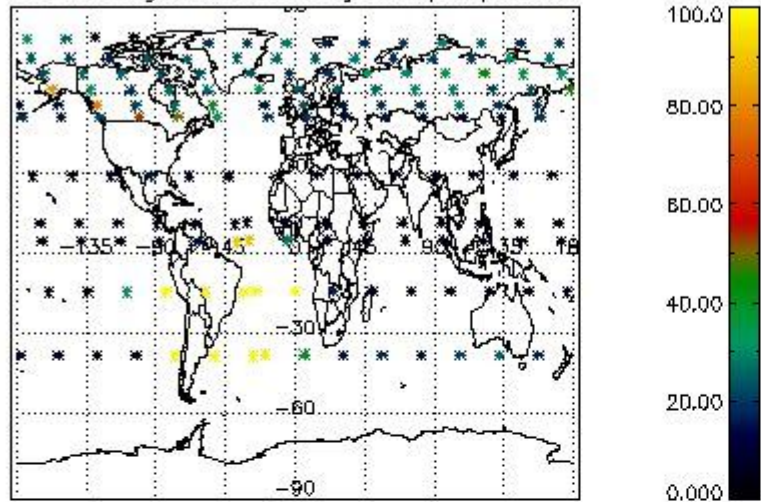
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



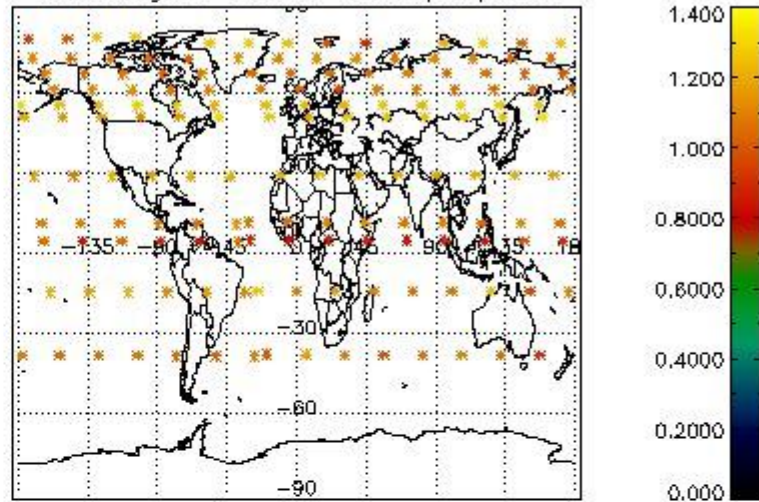
4.2 Plot quality information per product coming from level 1b processing (world map)

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

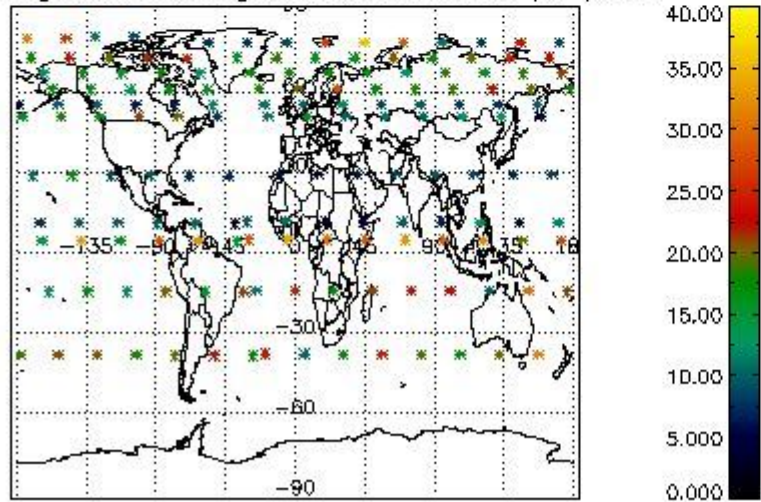
Percentage of cosmic ray hits per profile



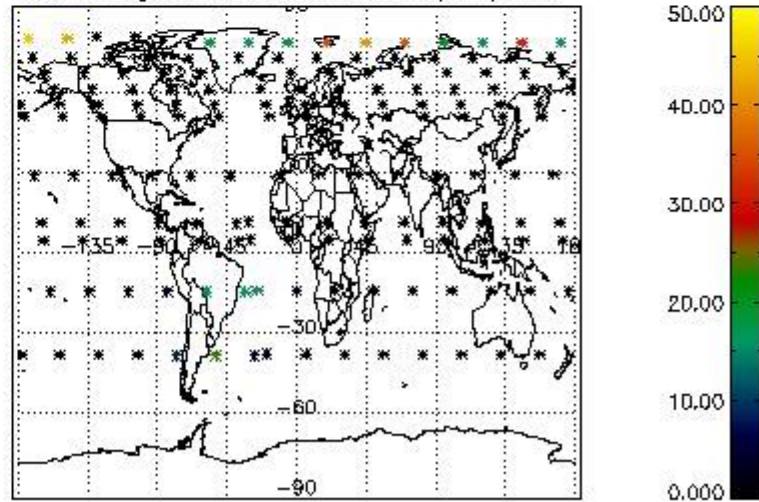
Percentage of datation errors per profile



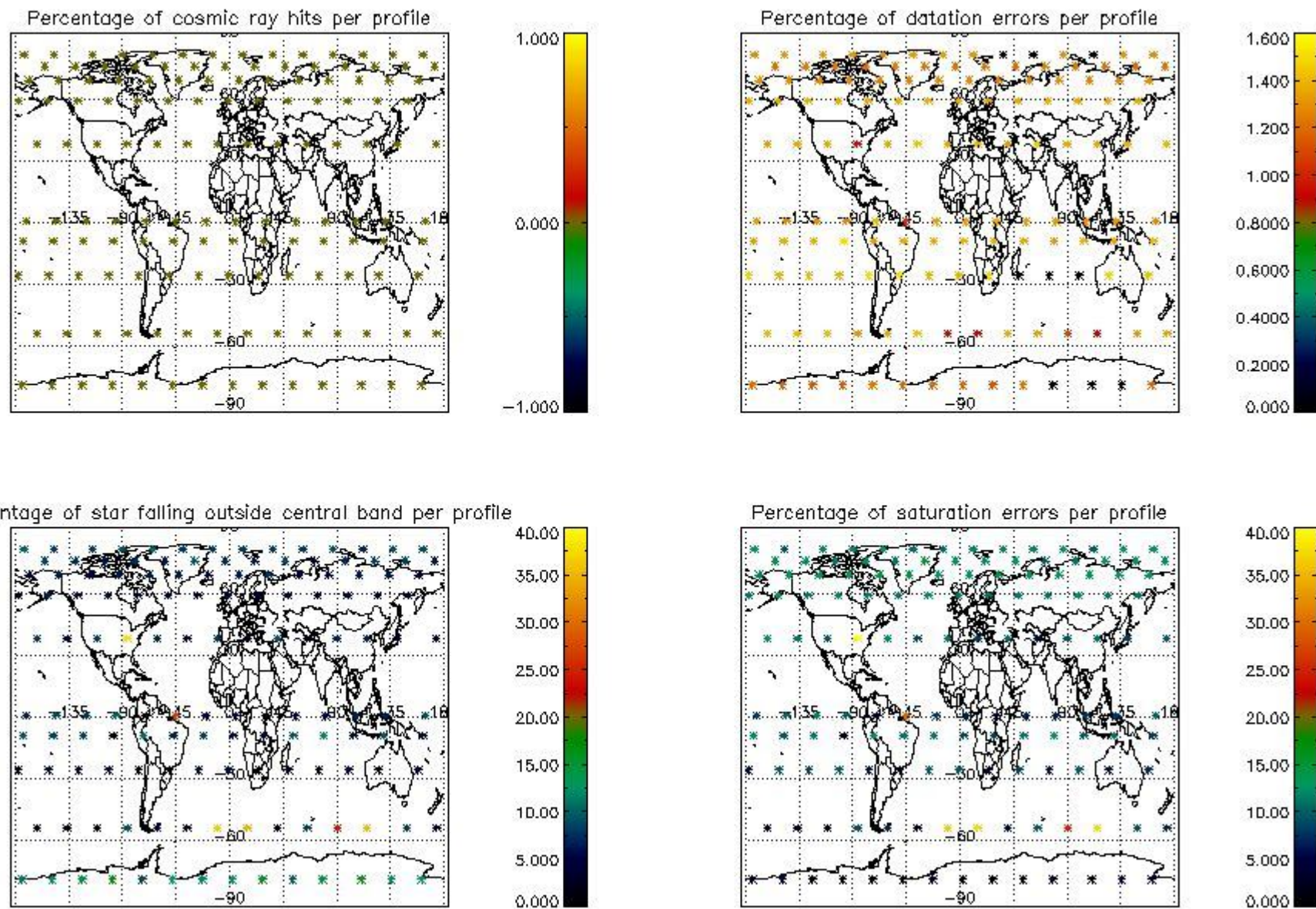
Percentage of star falling outside central band per profile



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

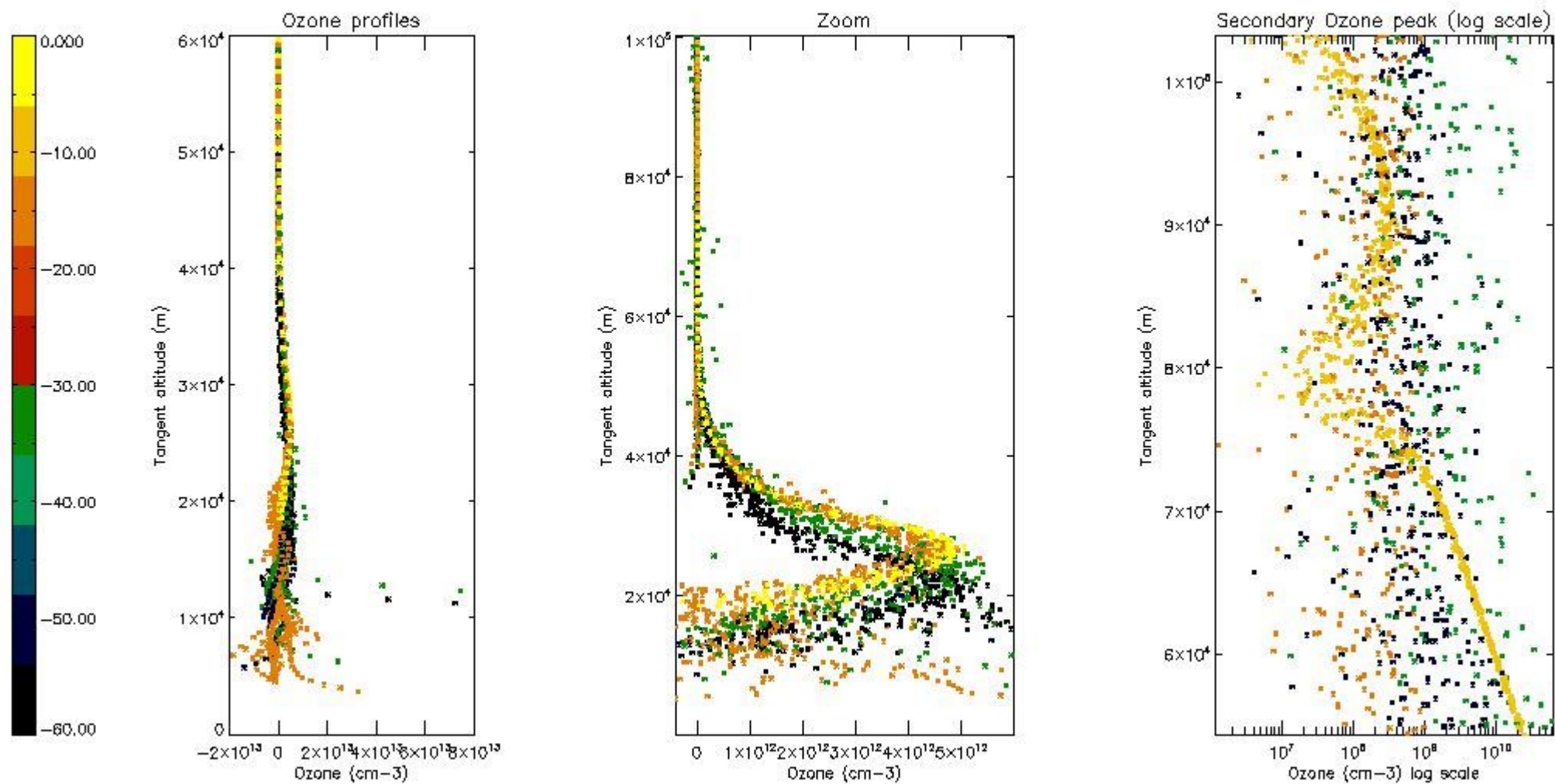
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	8

STD < 10	5
STD < 5	3

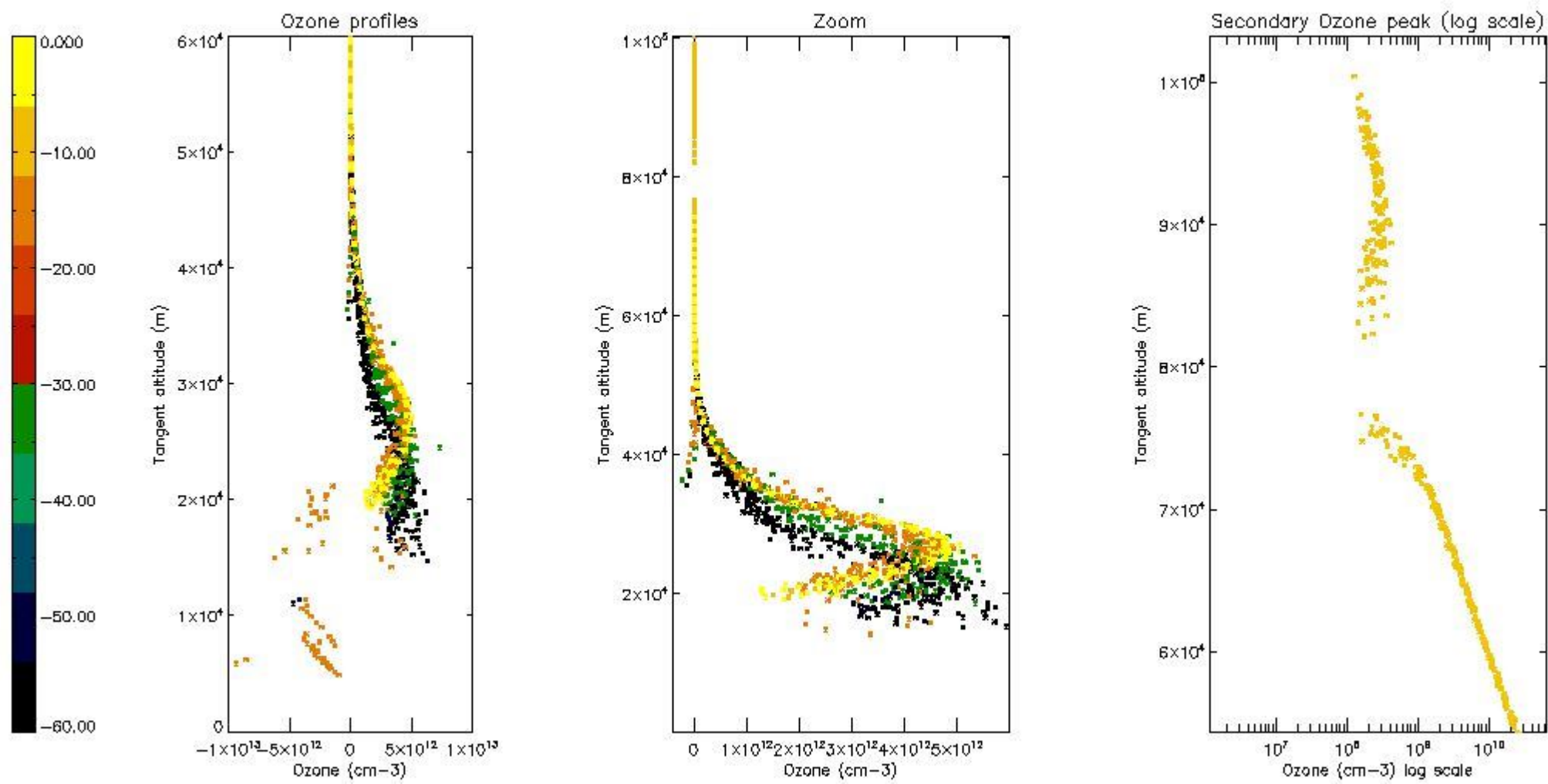
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



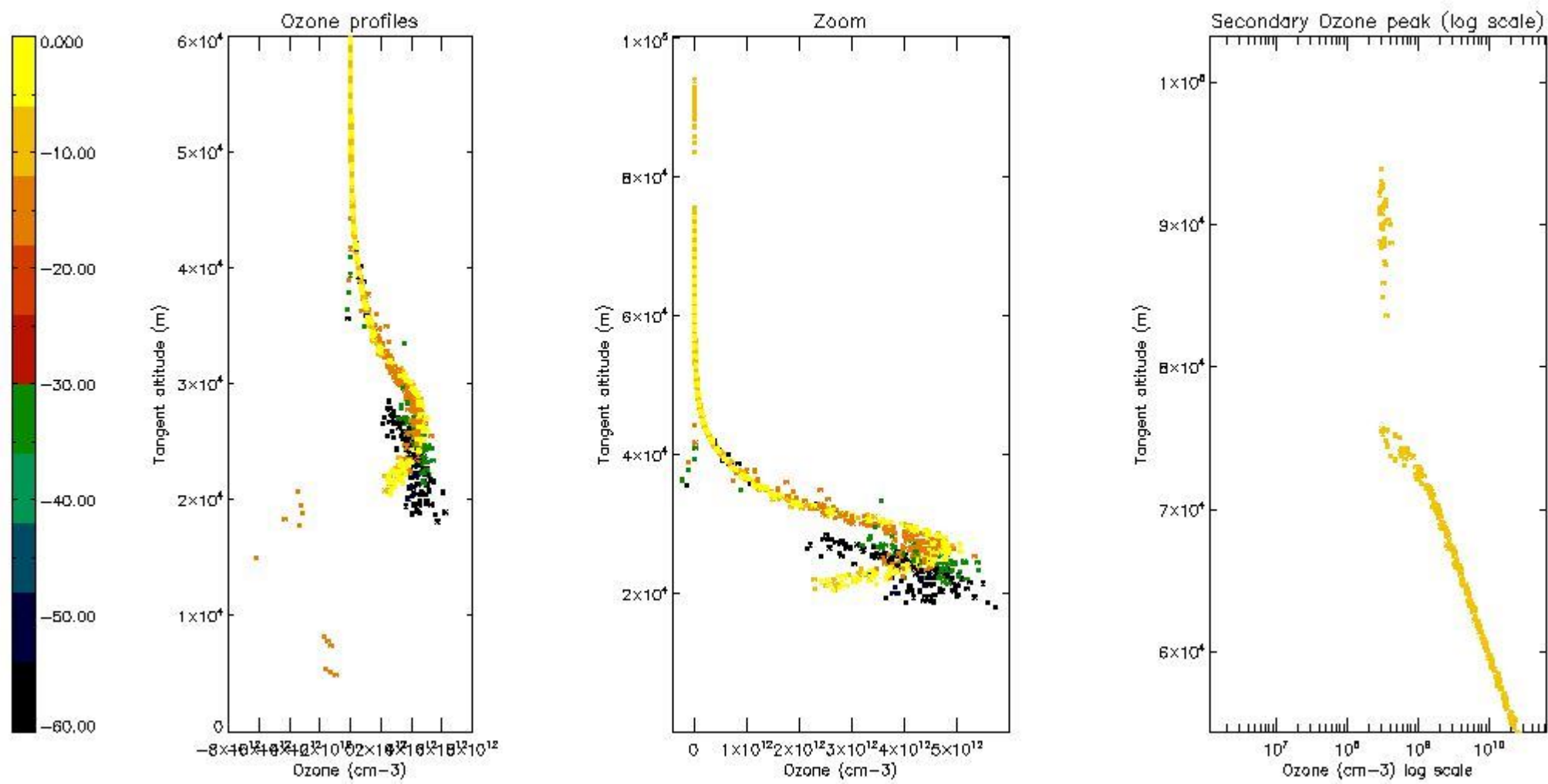
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



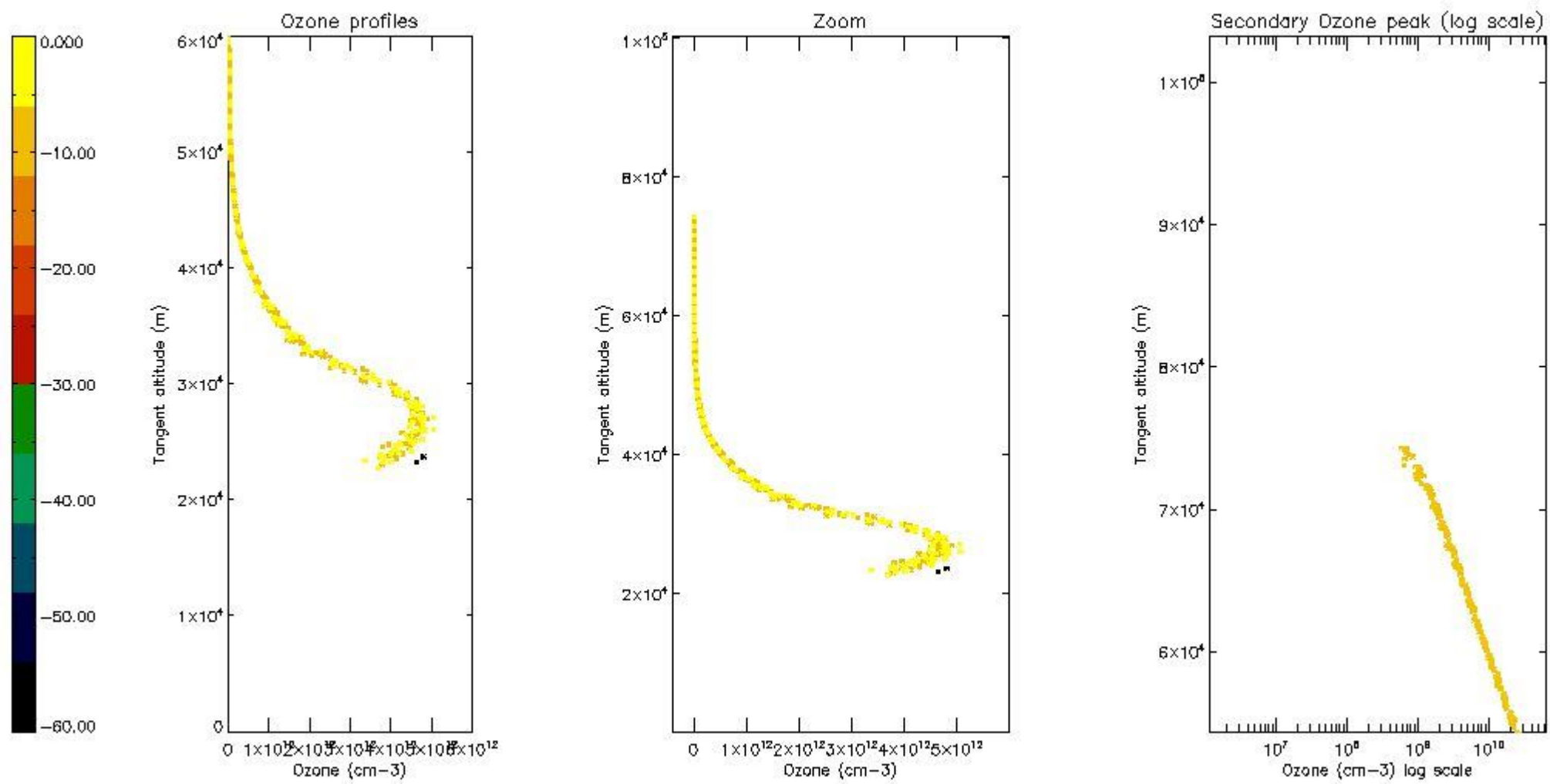
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



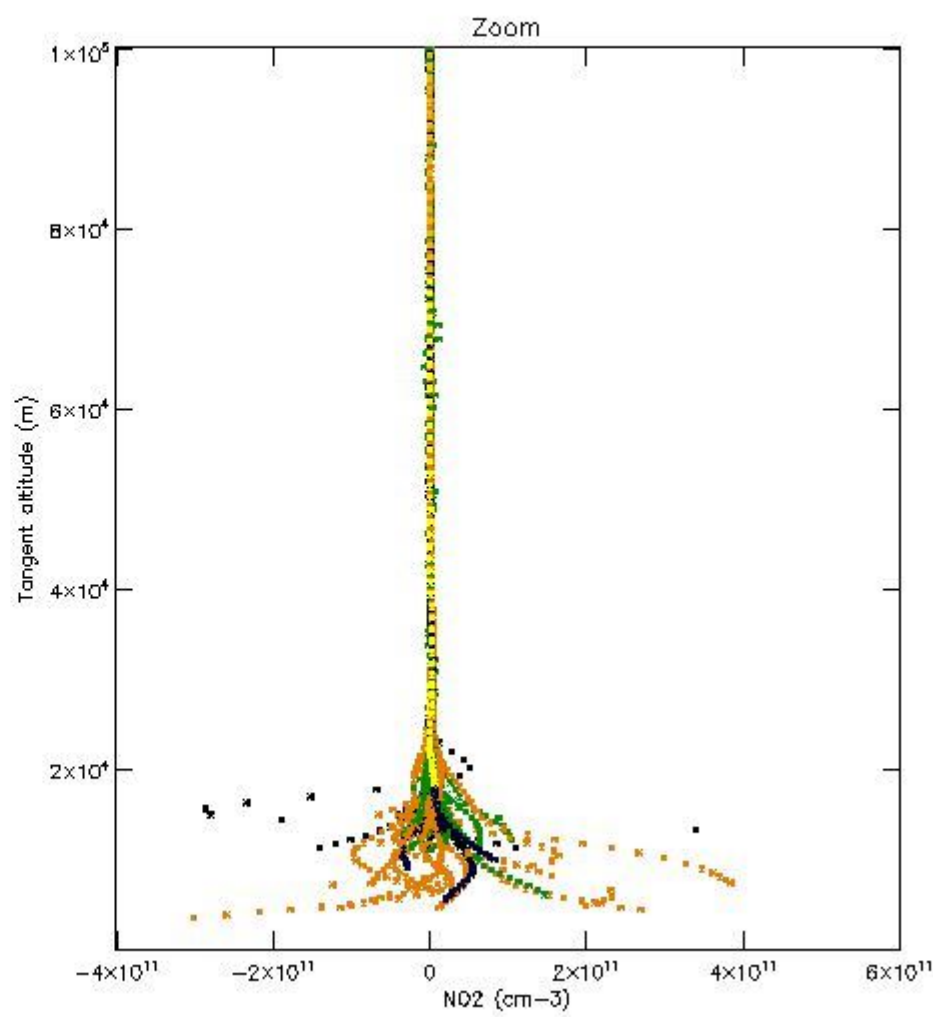
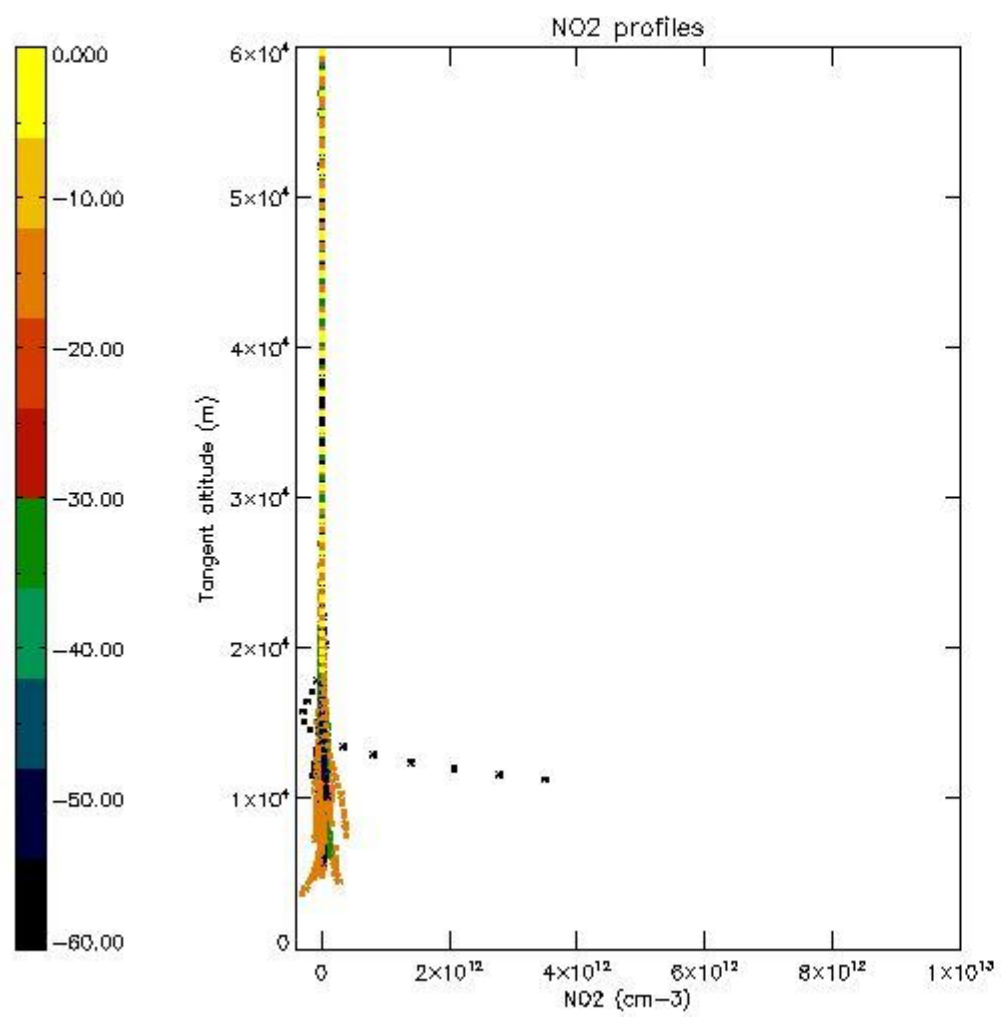
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



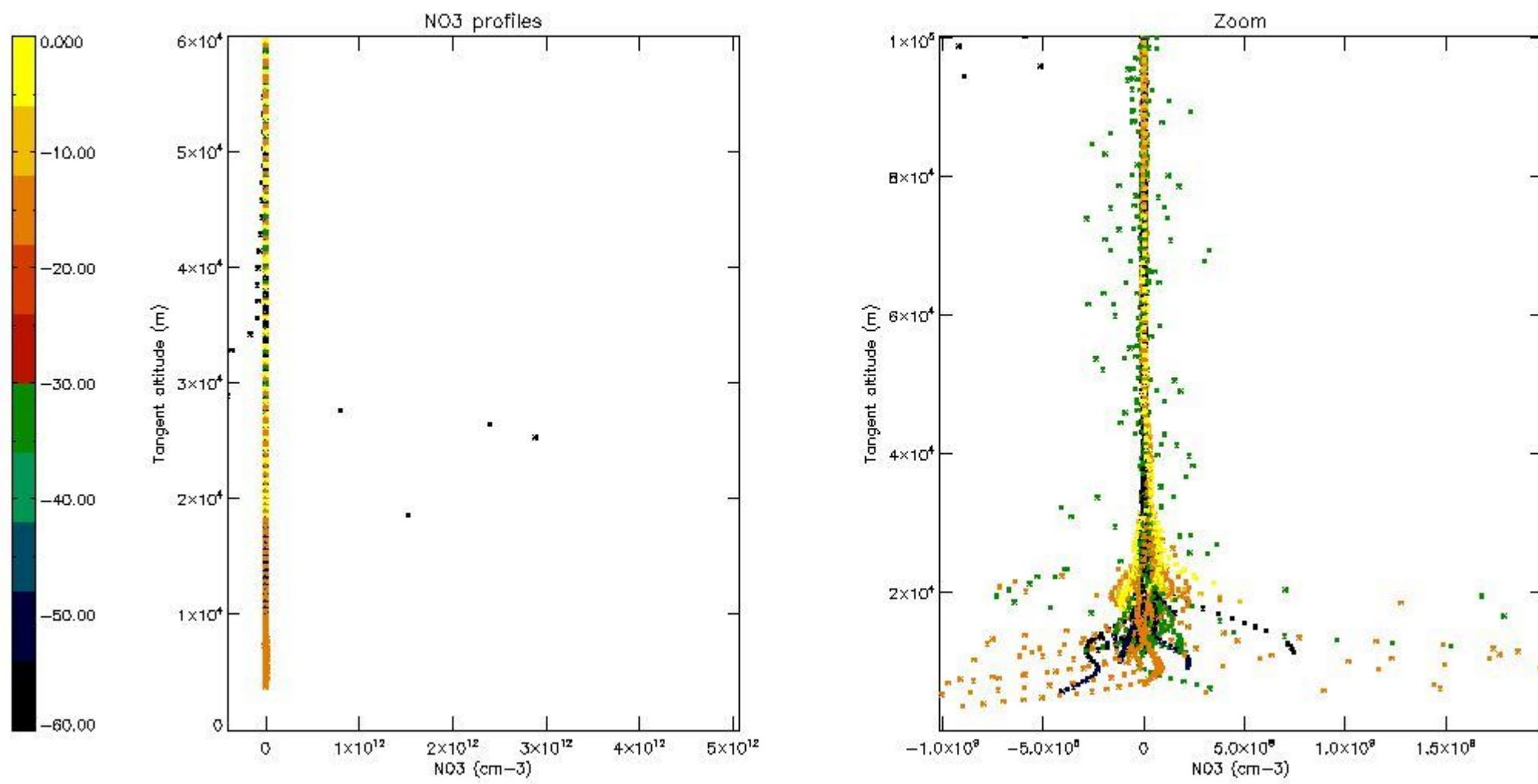
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



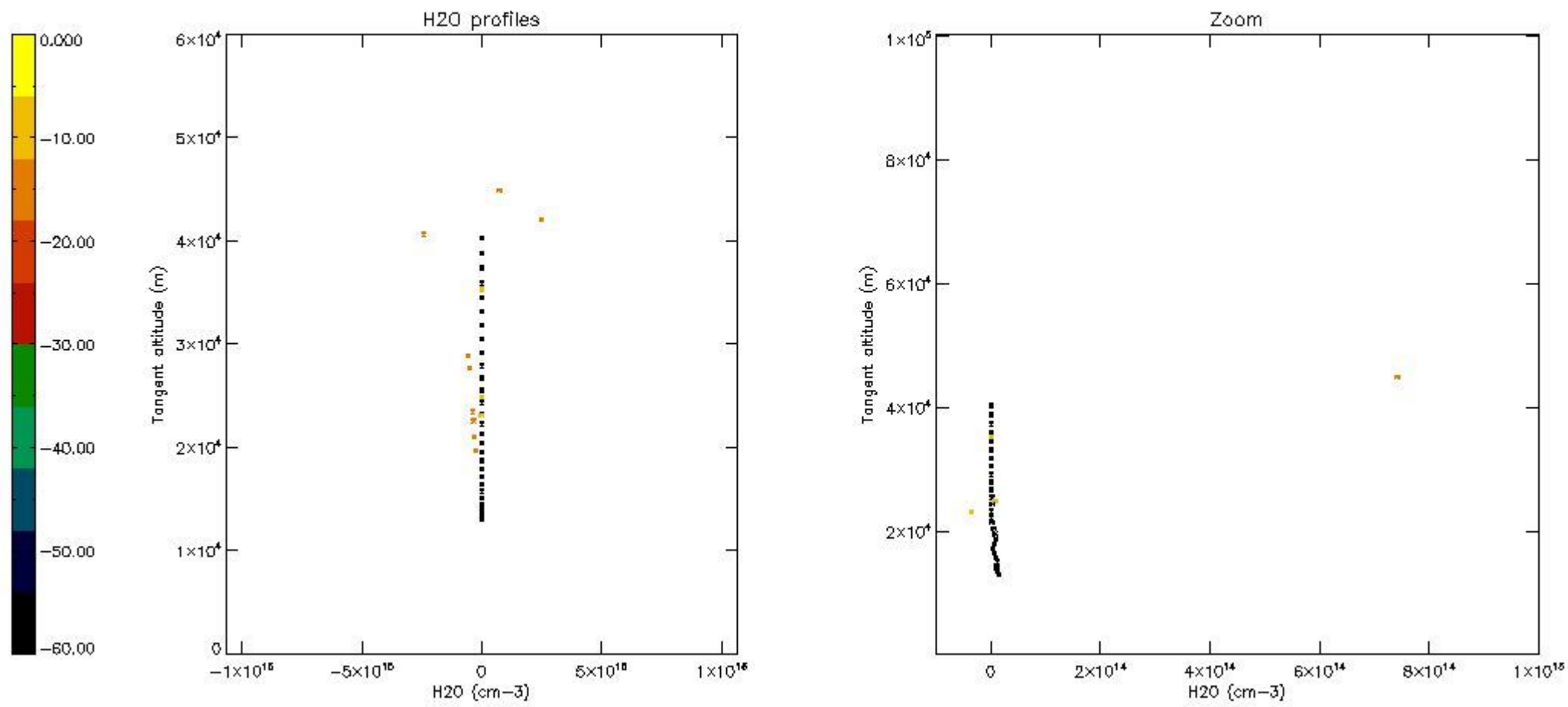
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

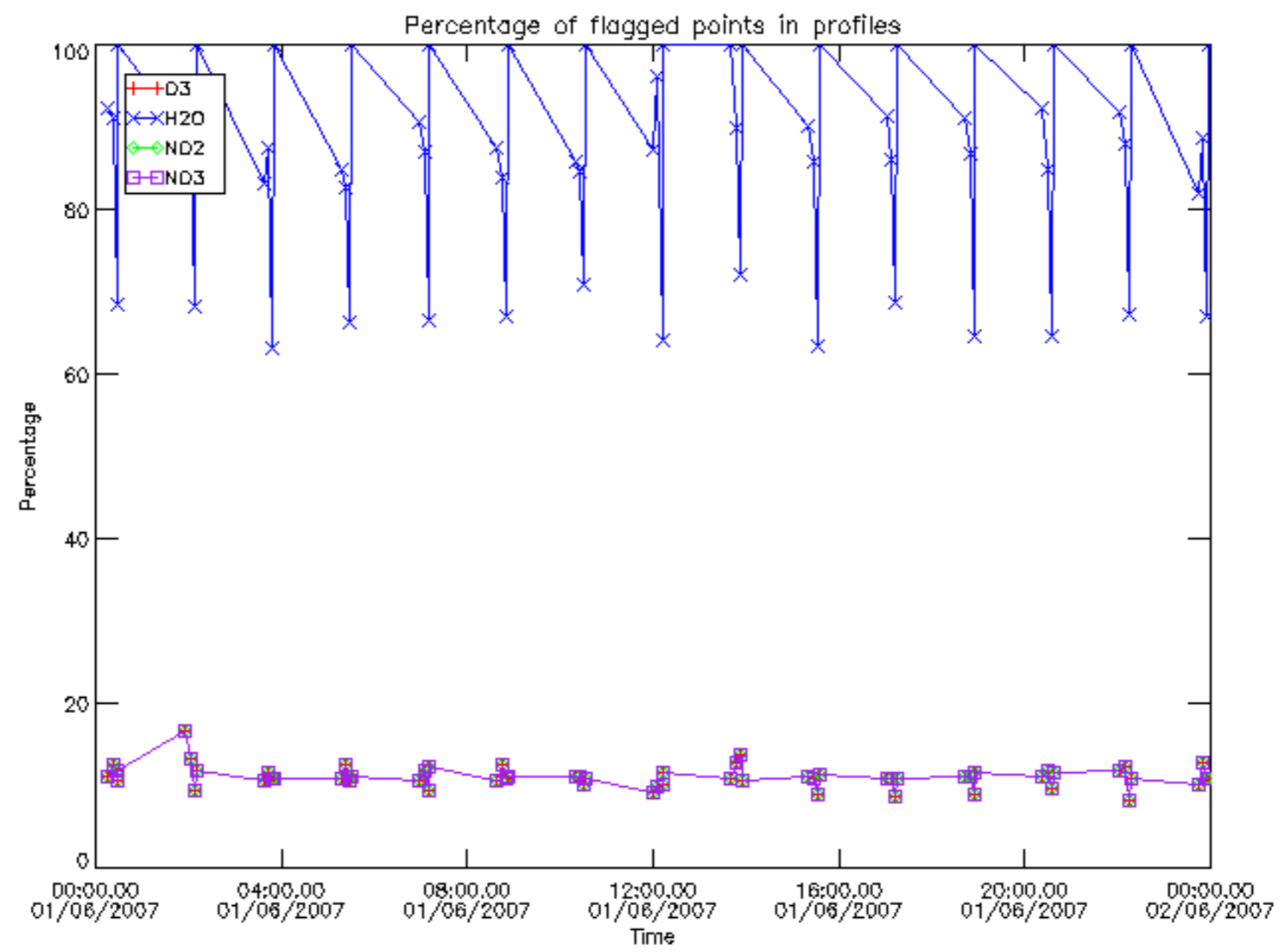
The colorbar represents the latitude.



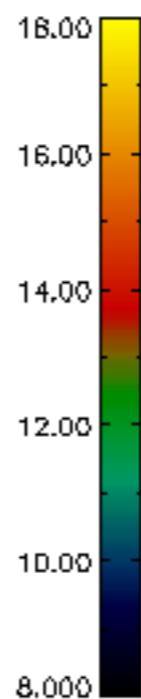
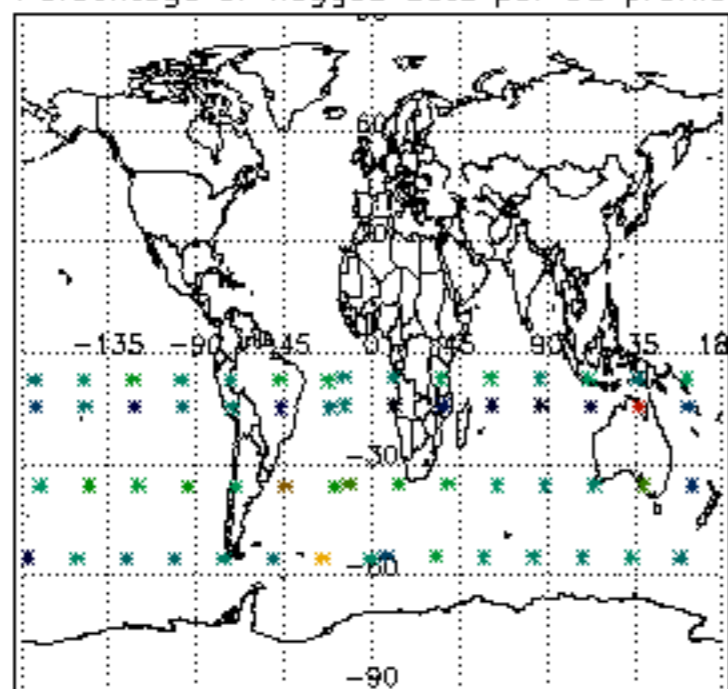
6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

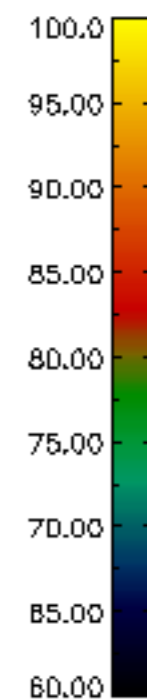
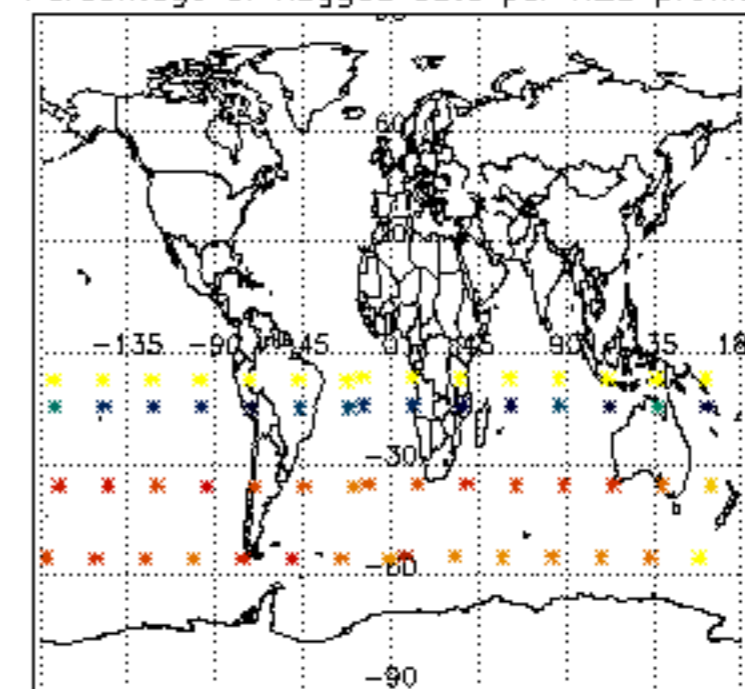
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	01-JUN-2007 00:15:23
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	01-JUN-2007 00:15:23
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	01-JUN-2007 00:15:23



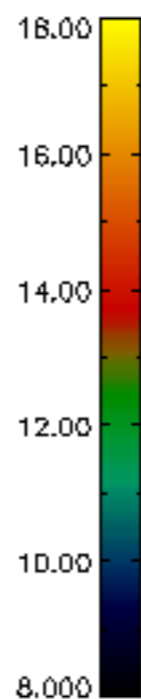
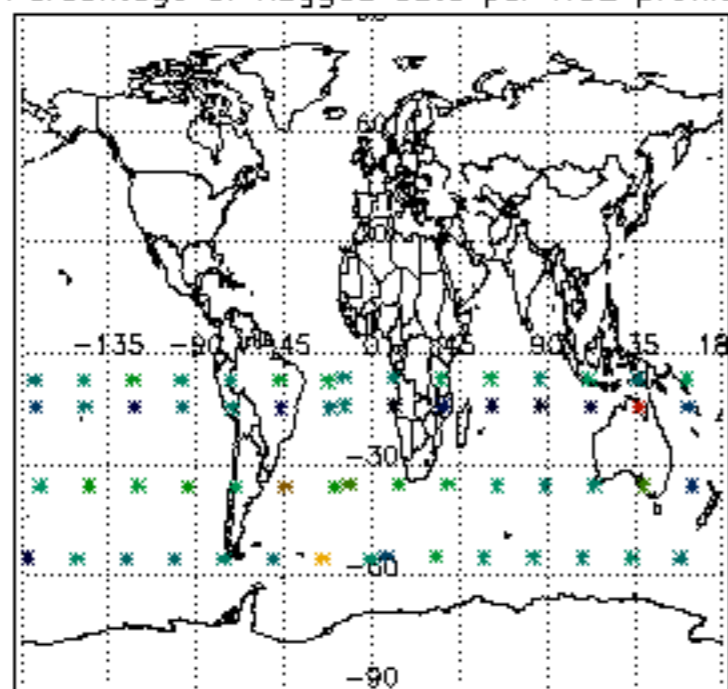
Percentage of flagged data per D3 profile



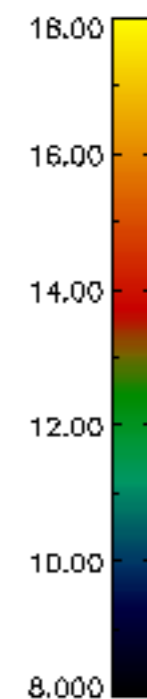
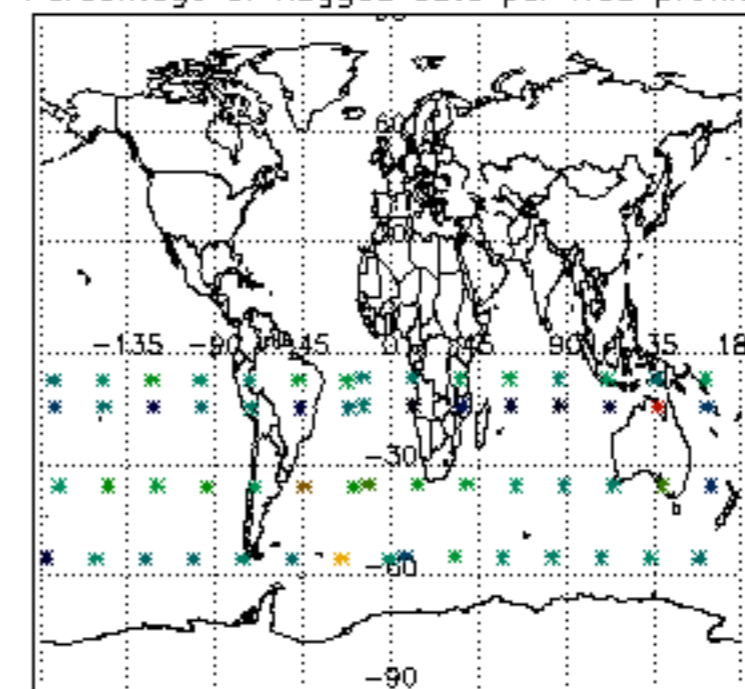
Percentage of flagged data per H2O profile

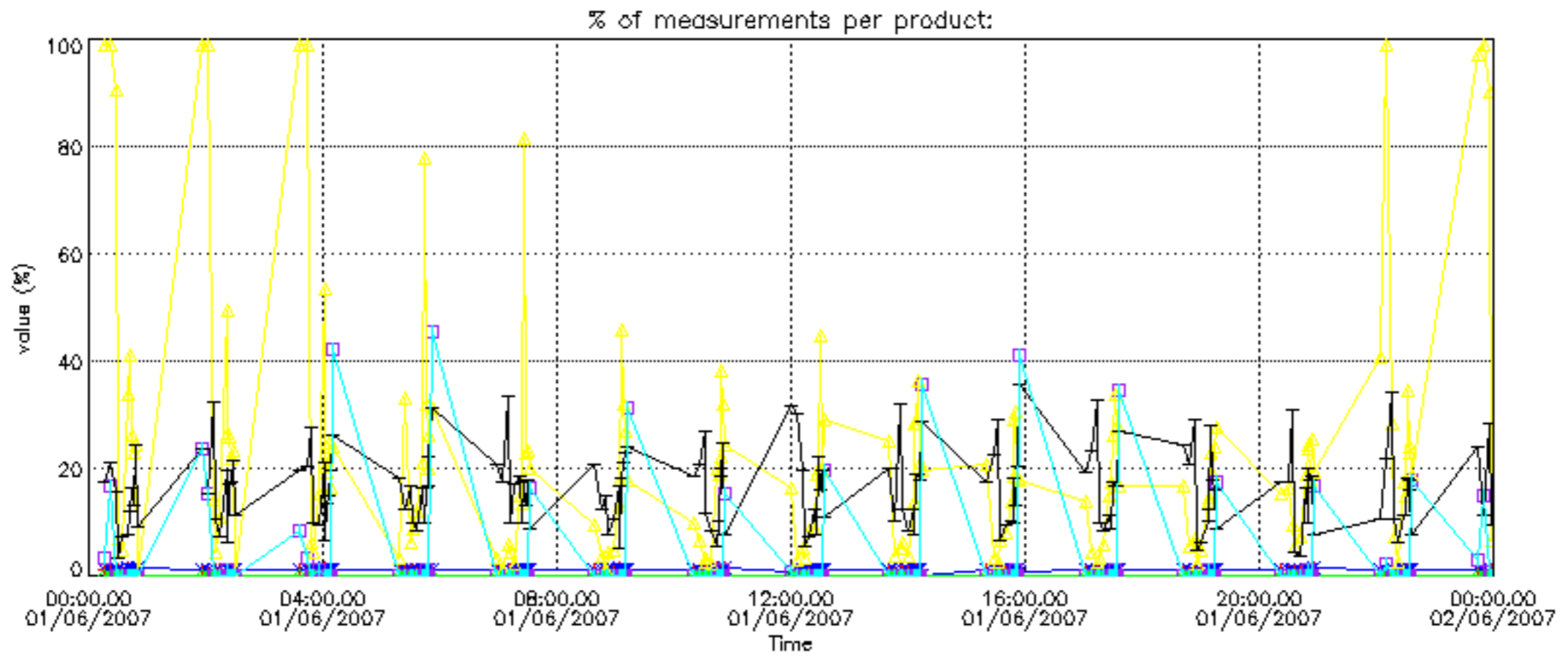


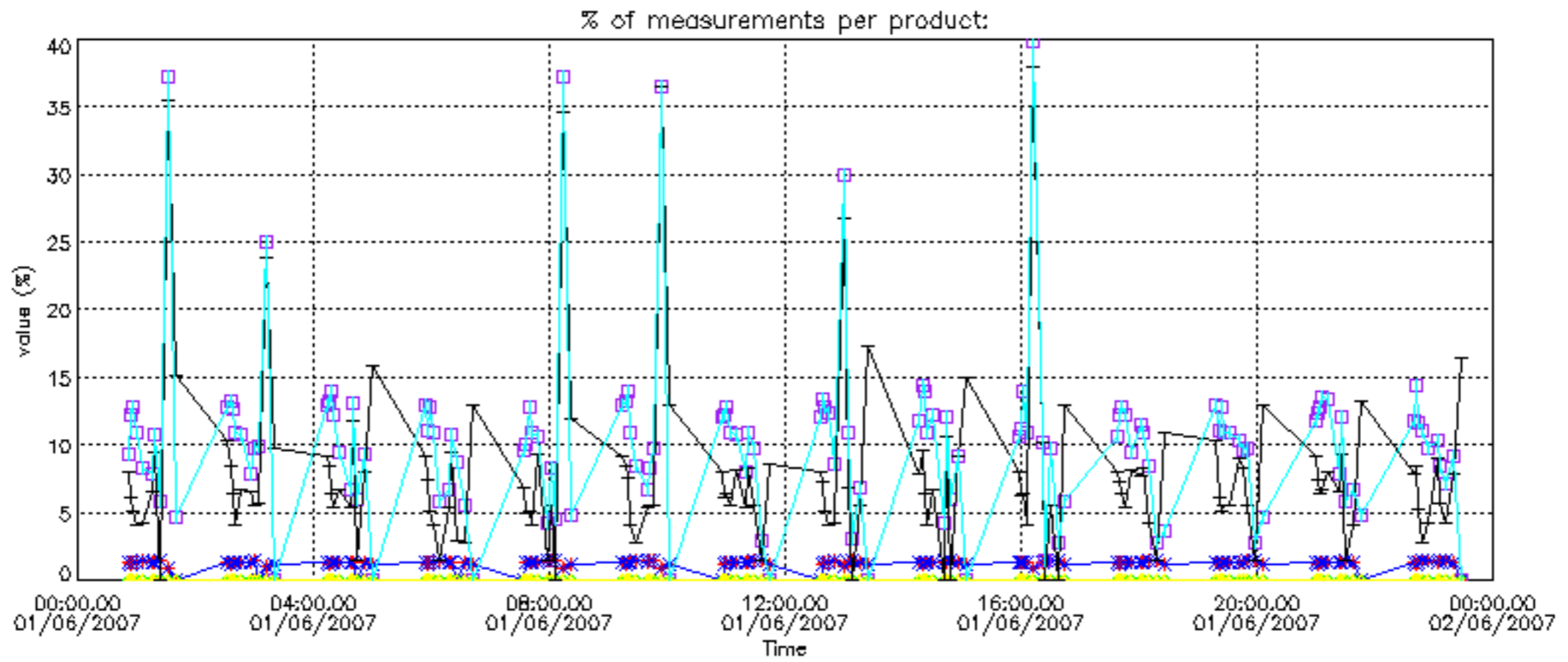
Percentage of flagged data per NO2 profile



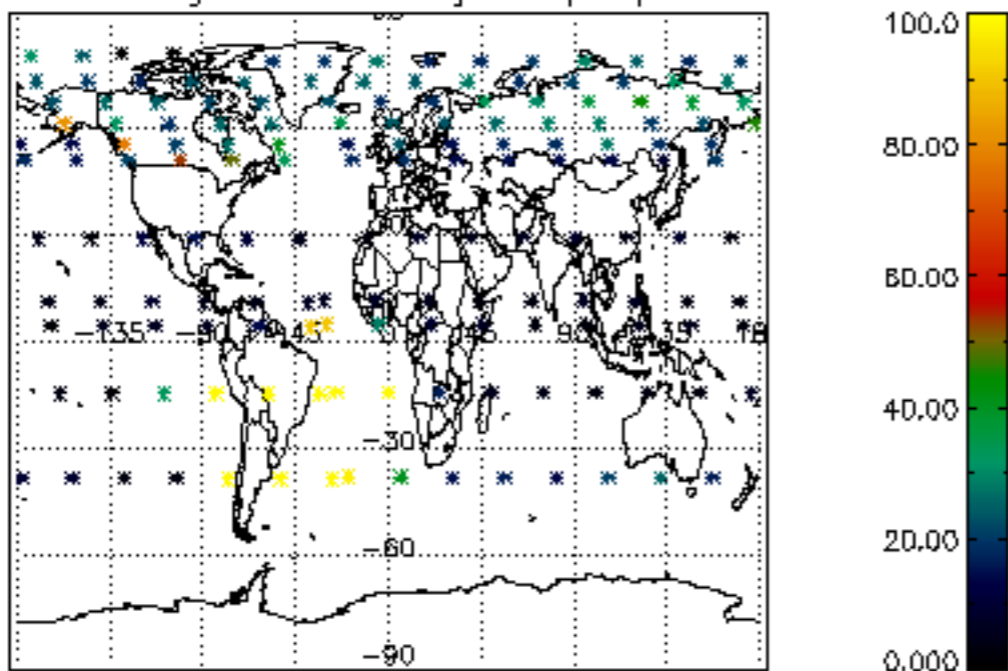
Percentage of flagged data per NO3 profile



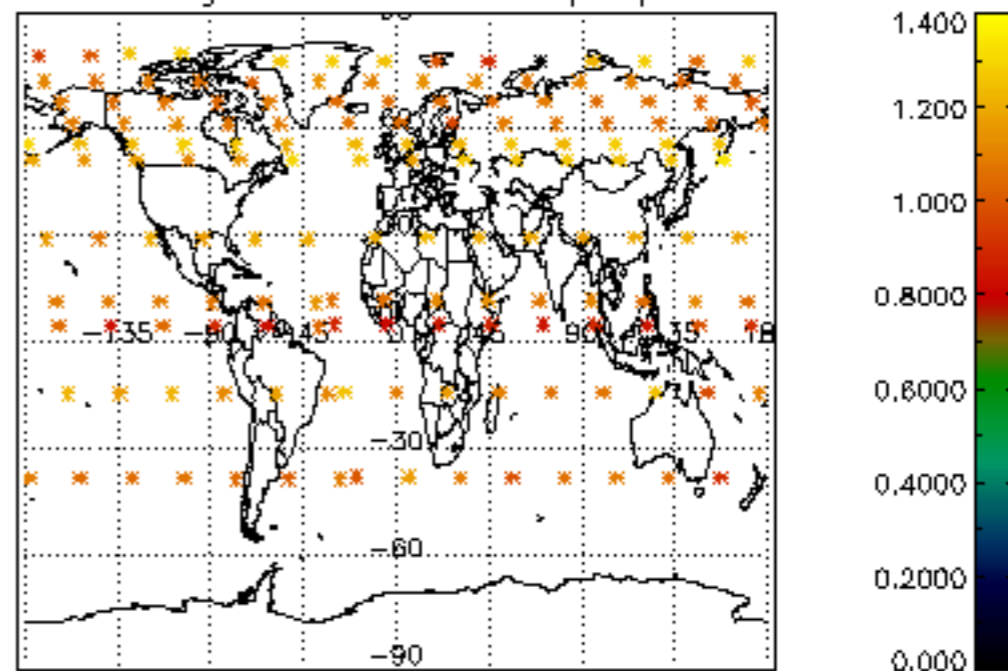




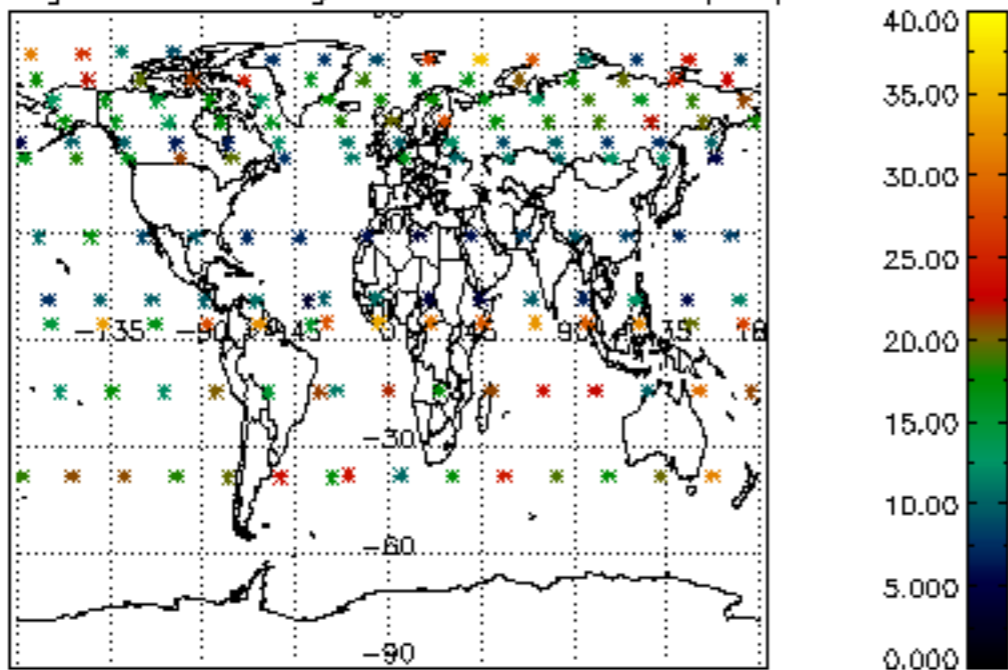
Percentage of cosmic ray hits per profile



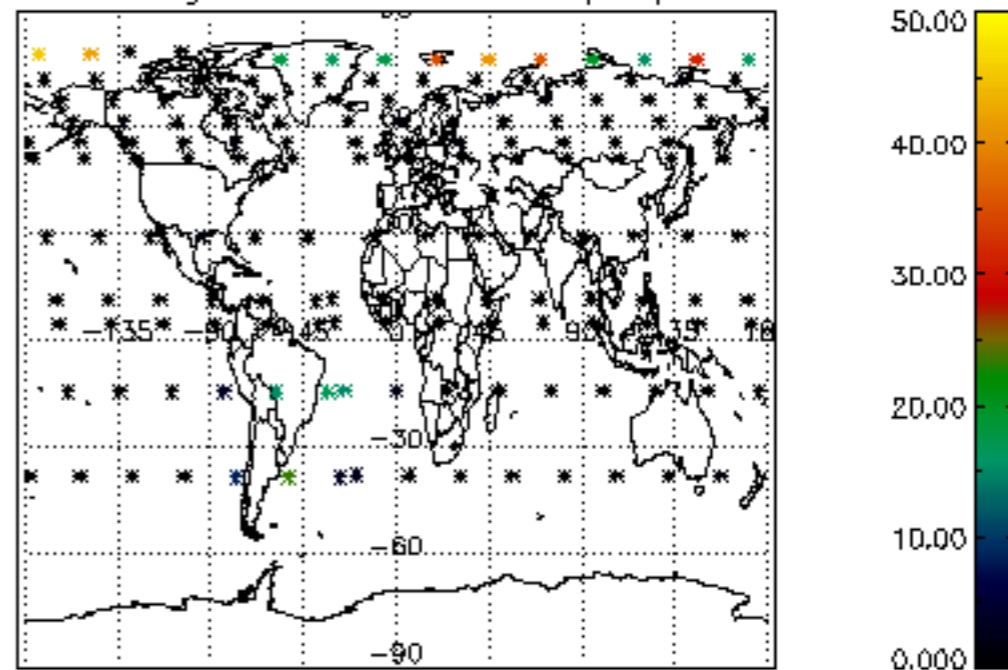
Percentage of datation errors per profile



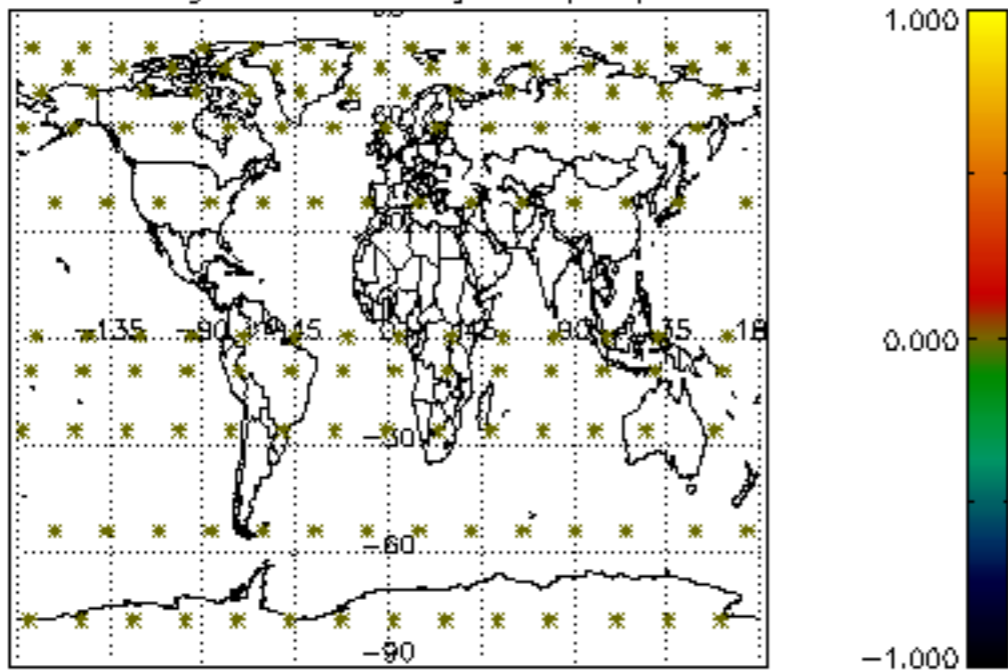
Percentage of star falling outside central band per profile



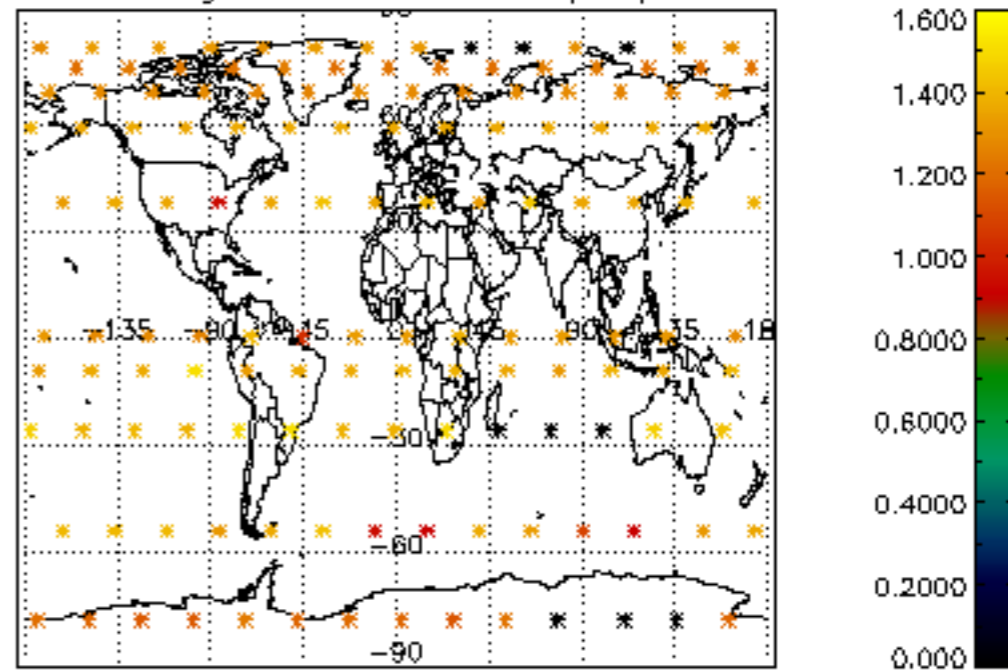
Percentage of saturation errors per profile



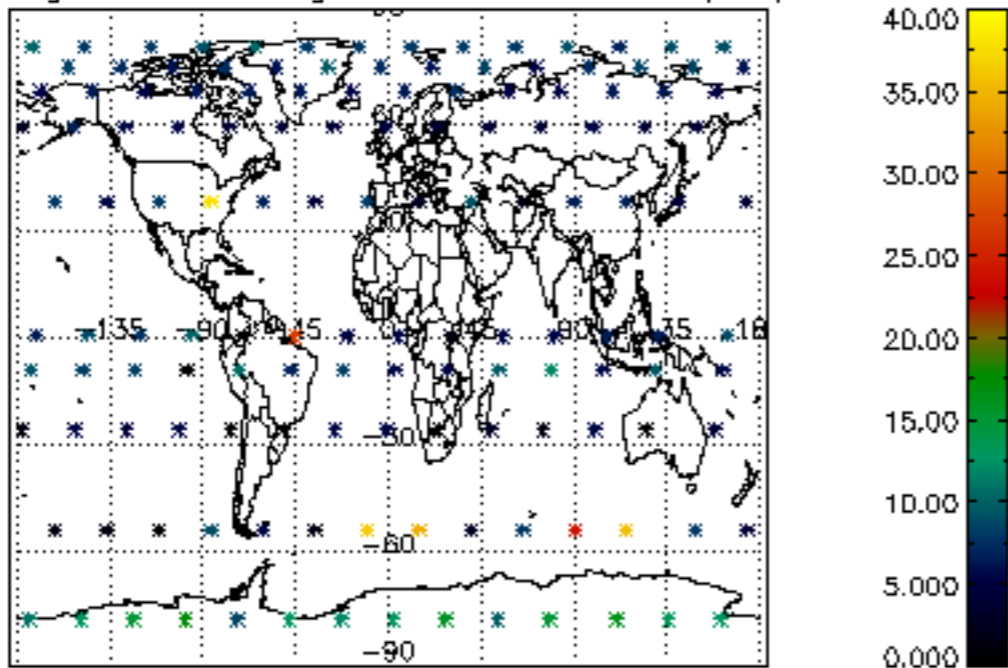
Percentage of cosmic ray hits per profile



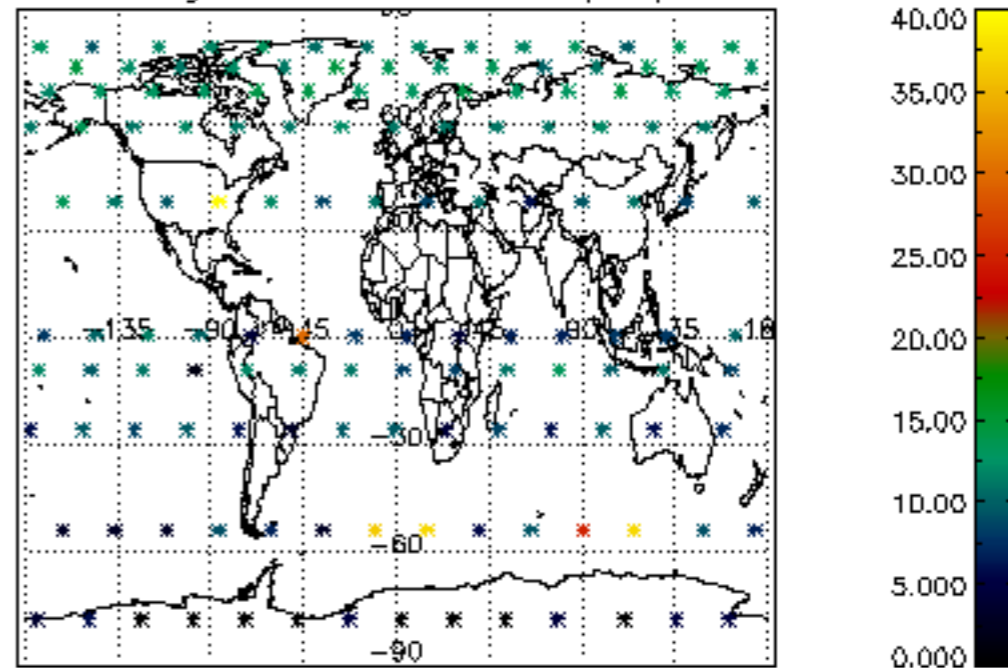
Percentage of datation errors per profile

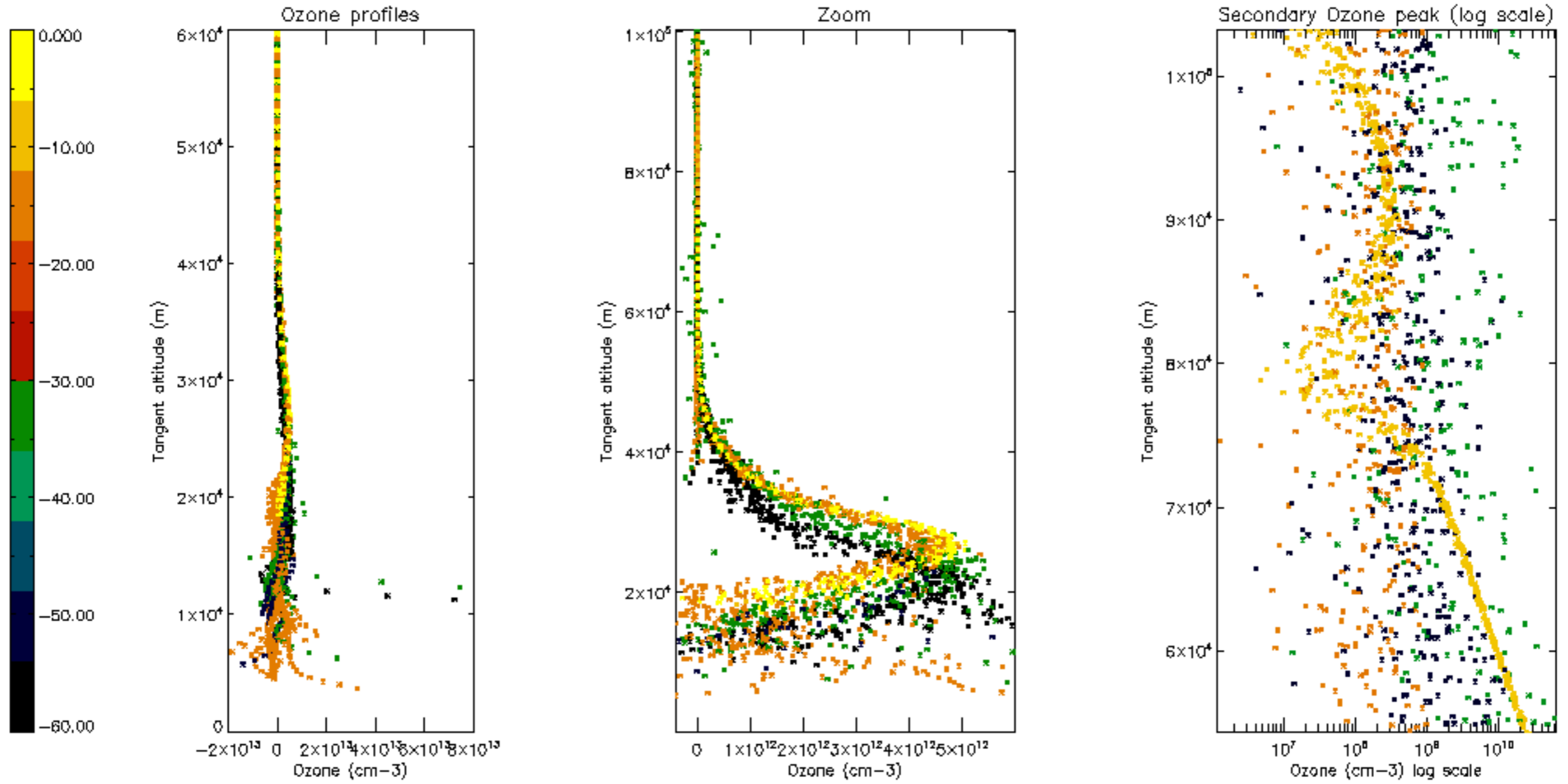


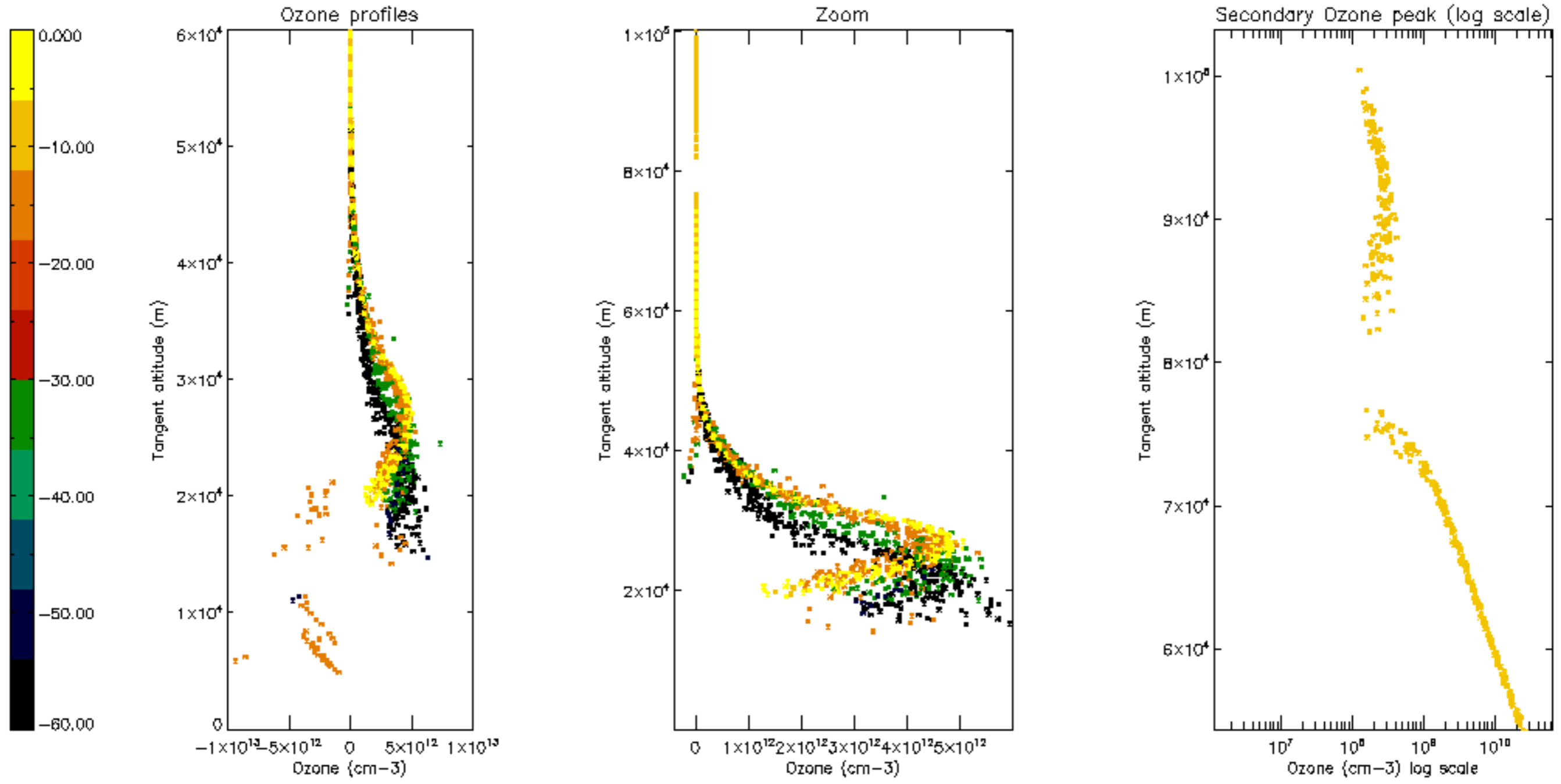
Percentage of star falling outside central band per profile

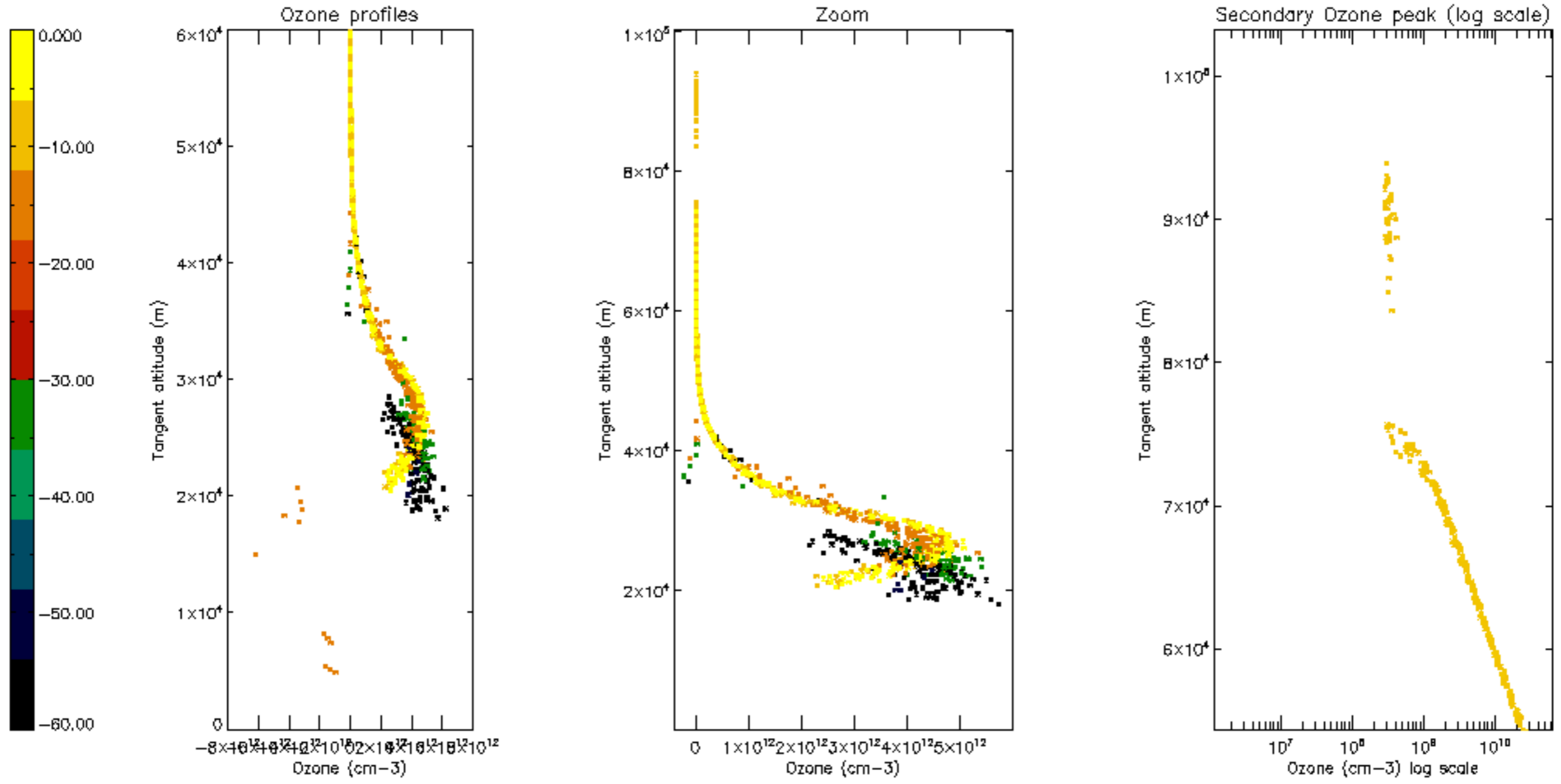


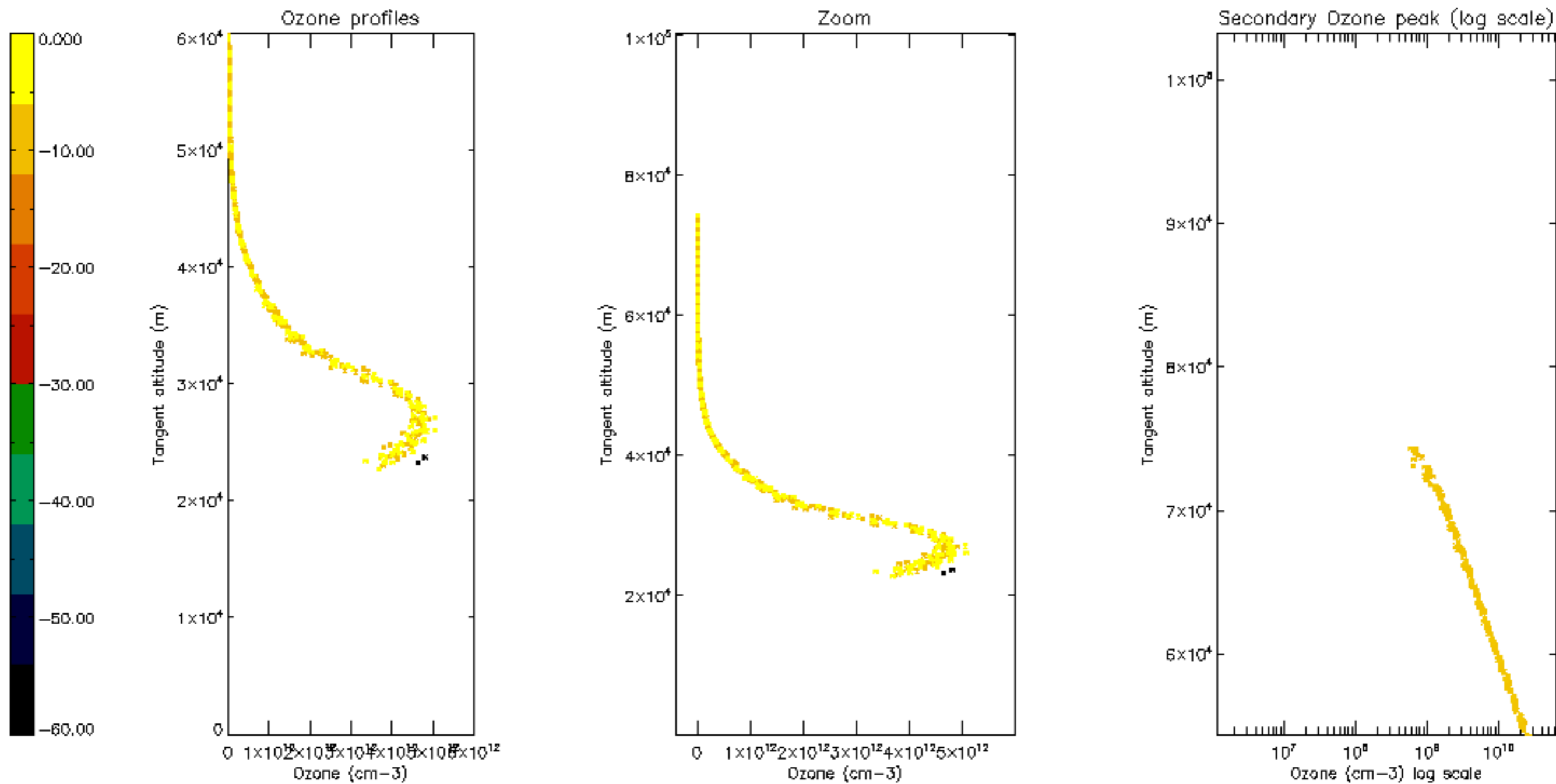
Percentage of saturation errors per profile

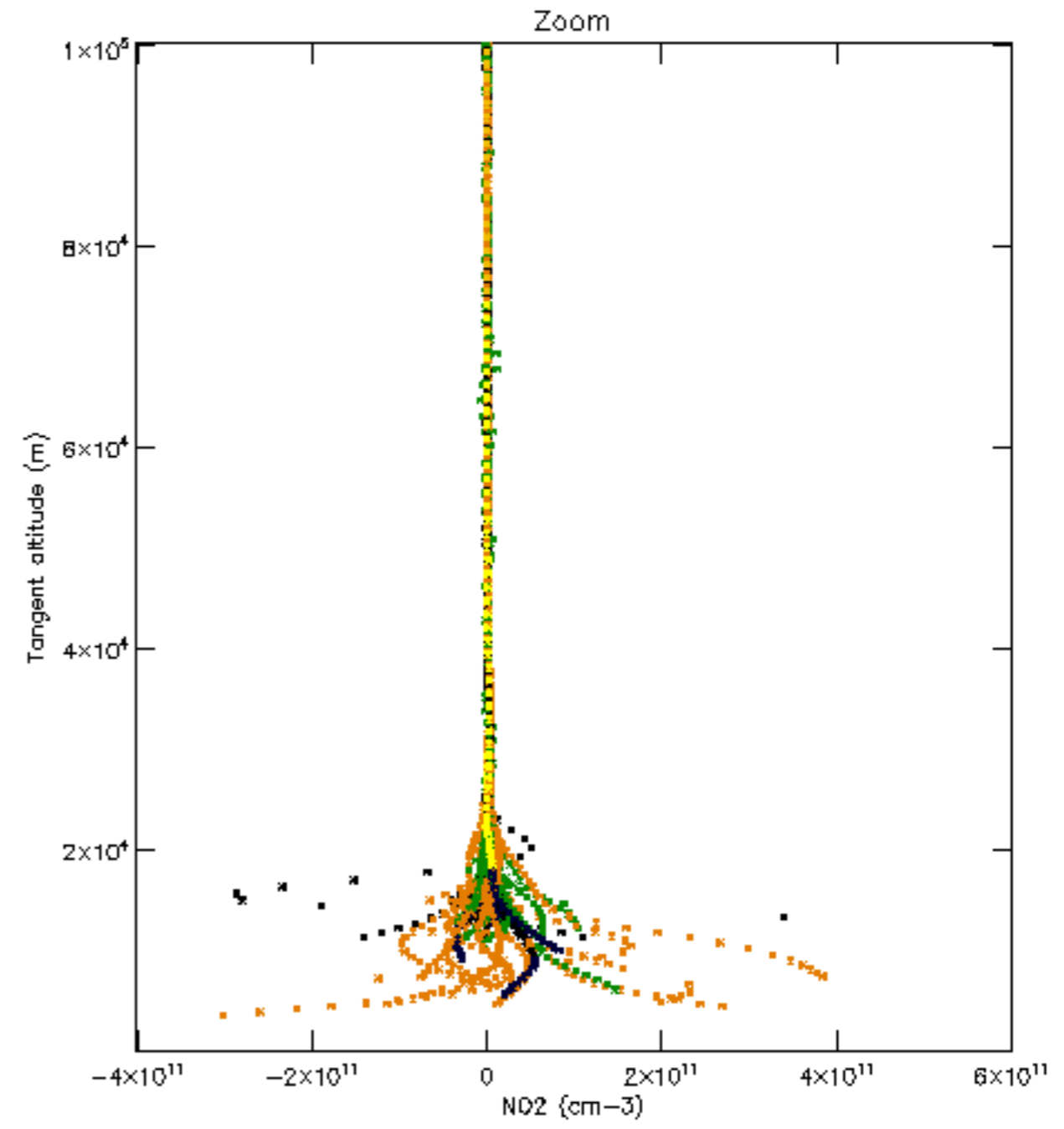
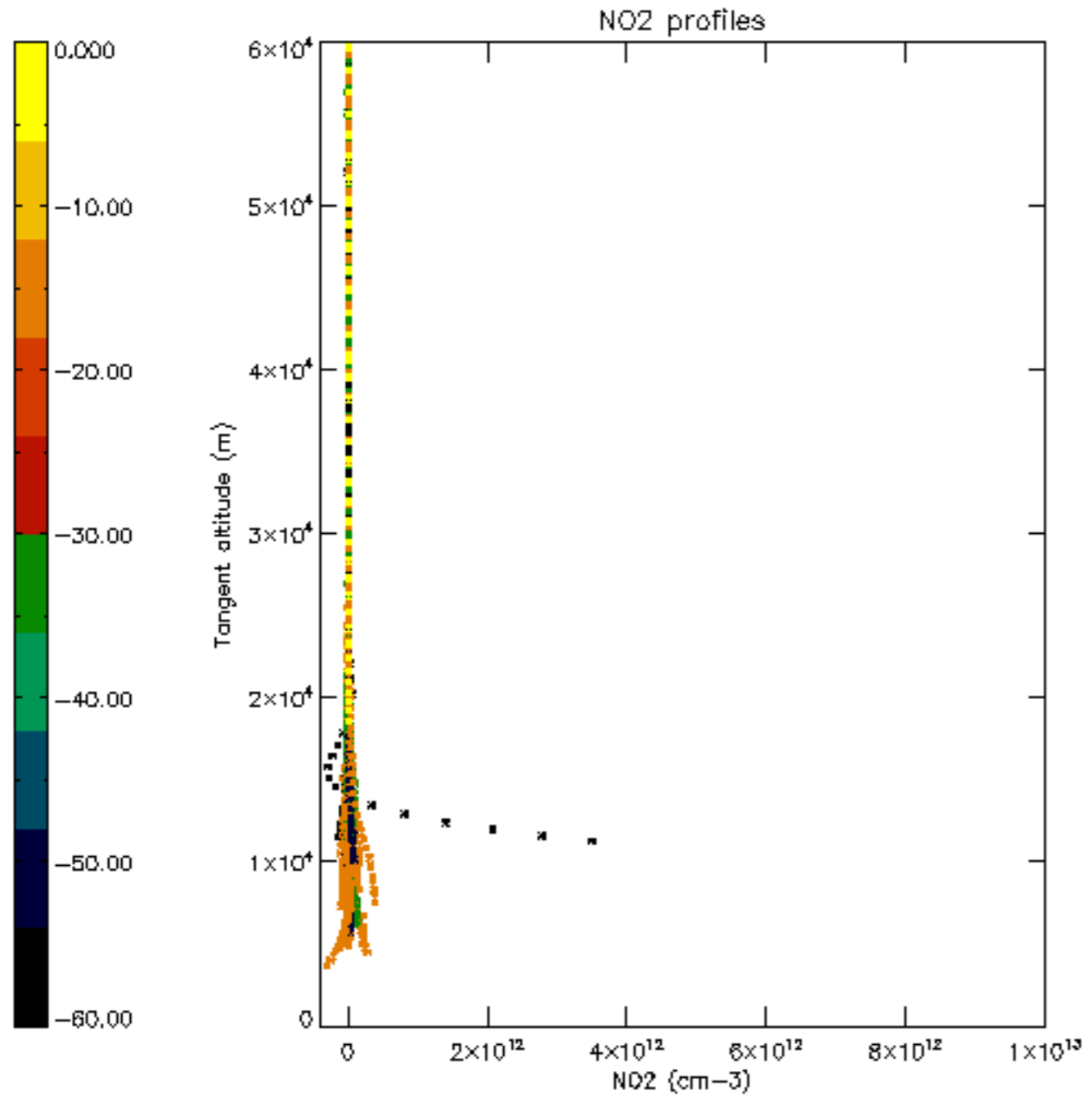


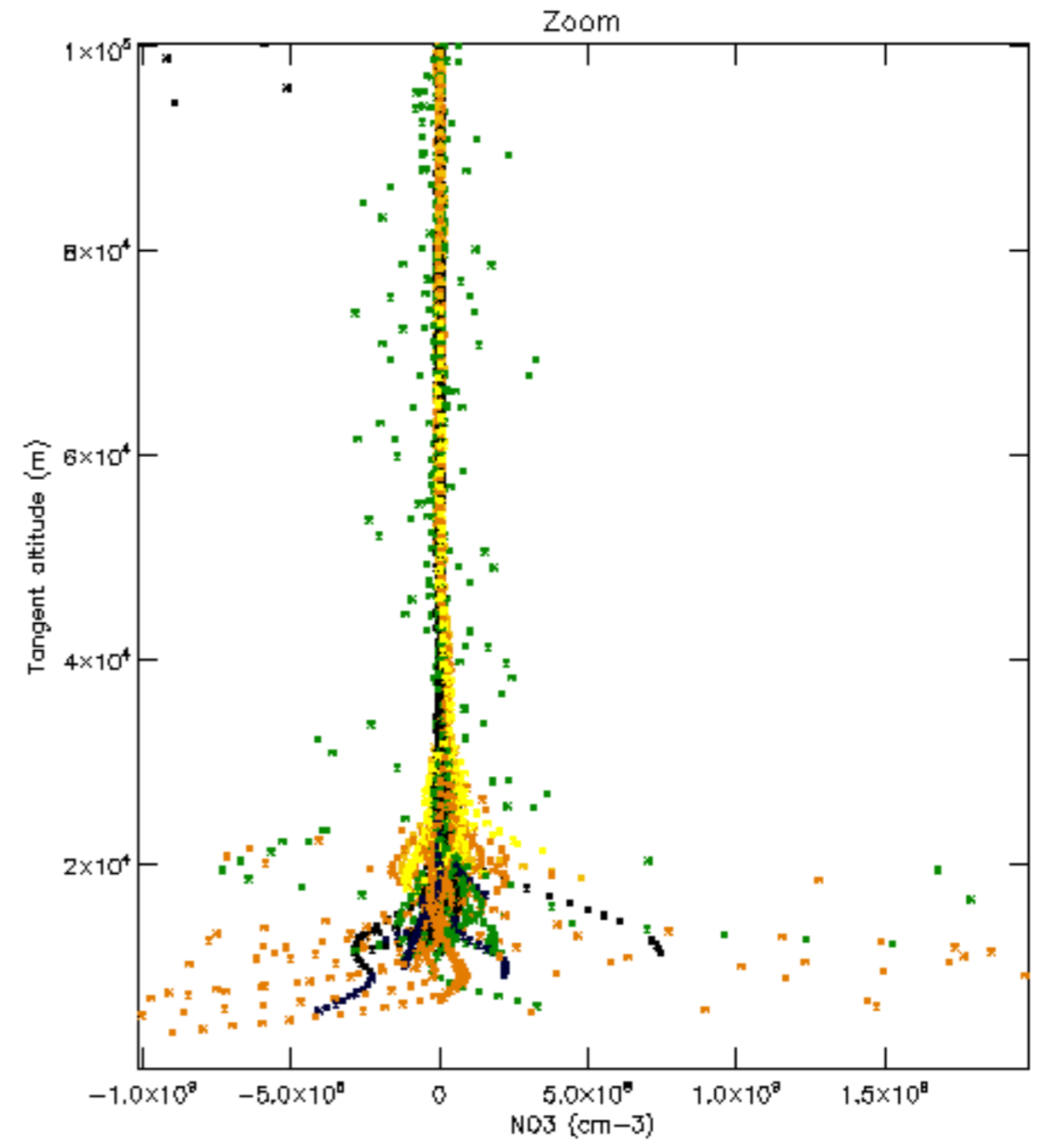
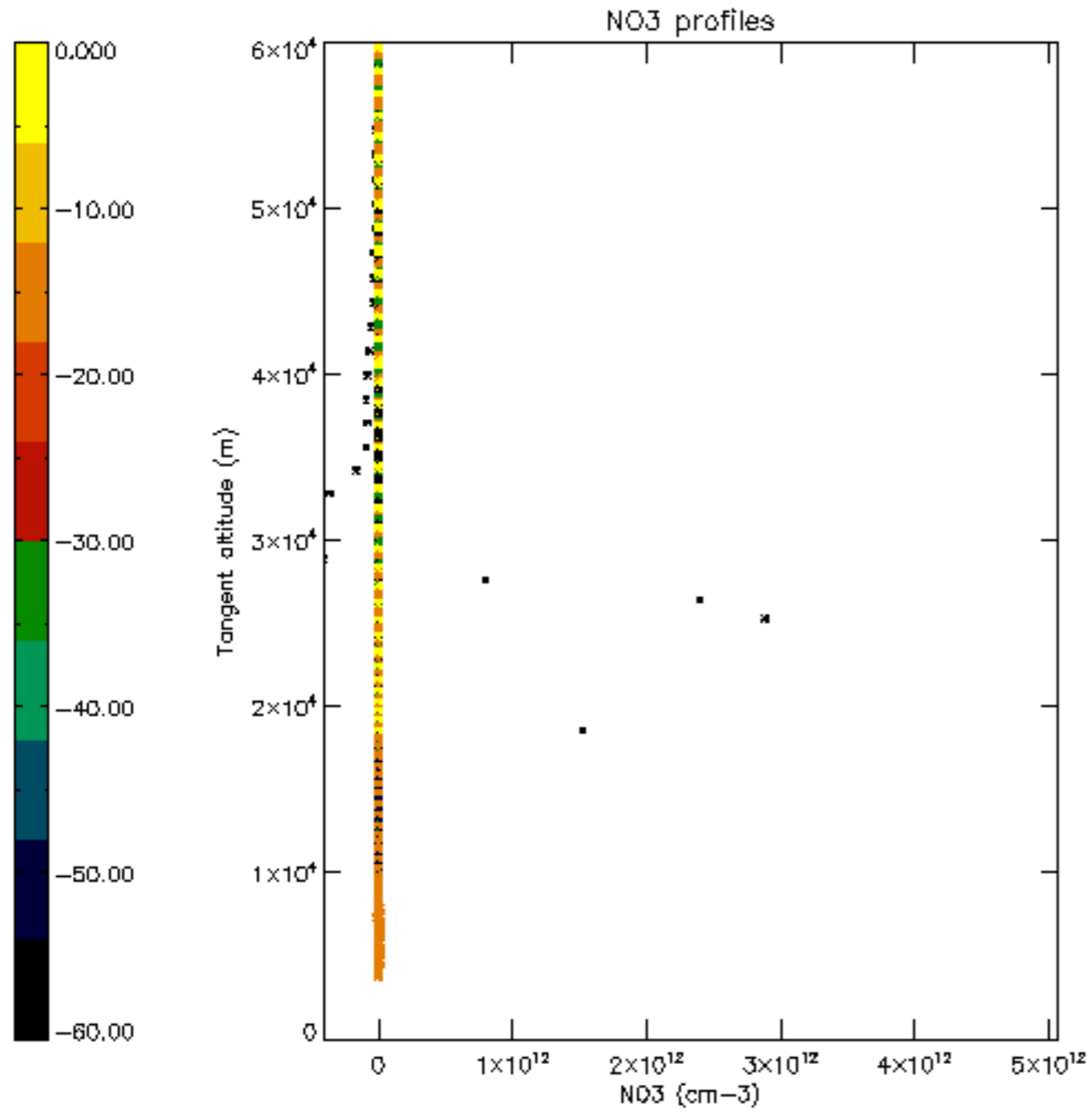


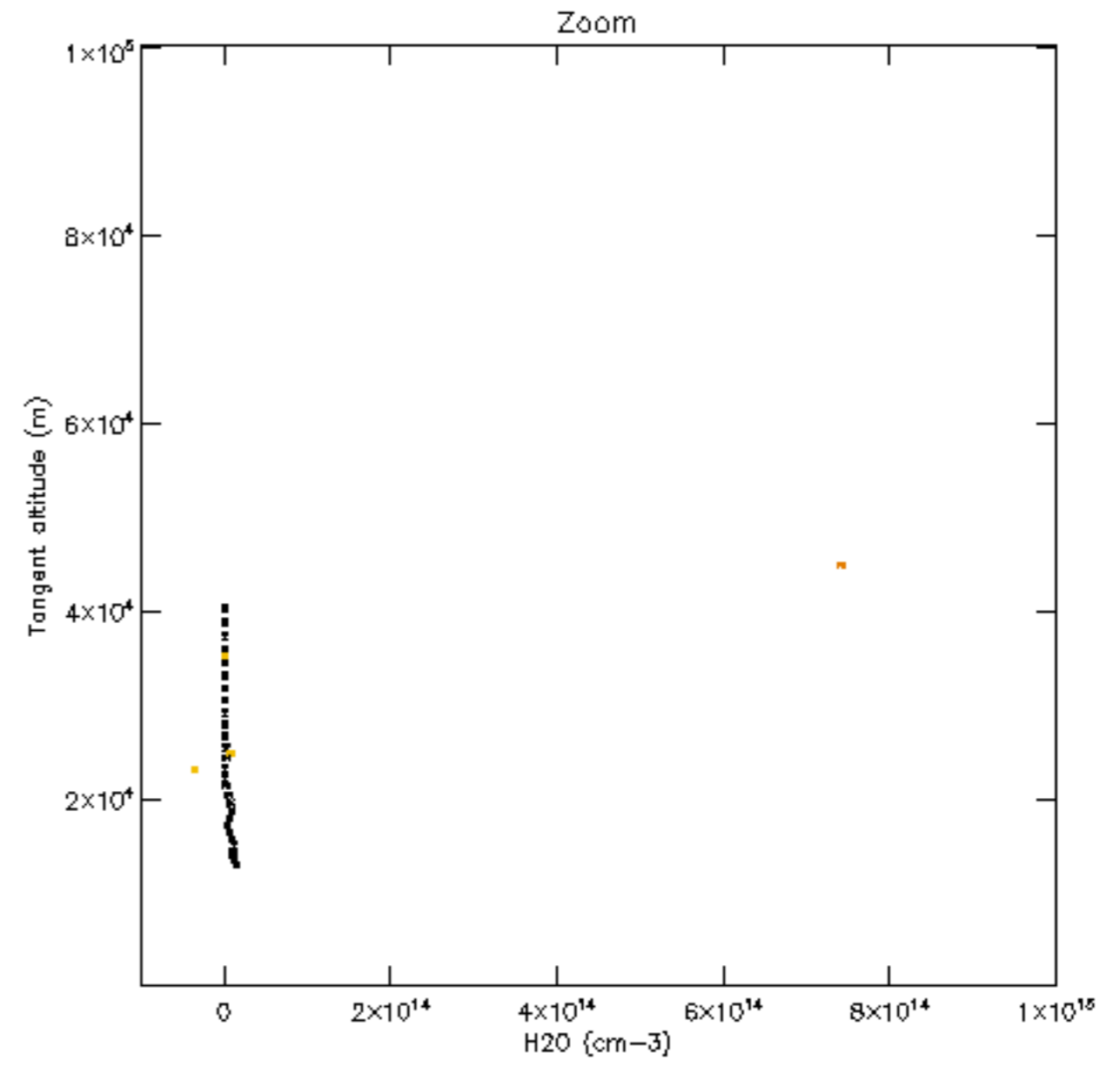
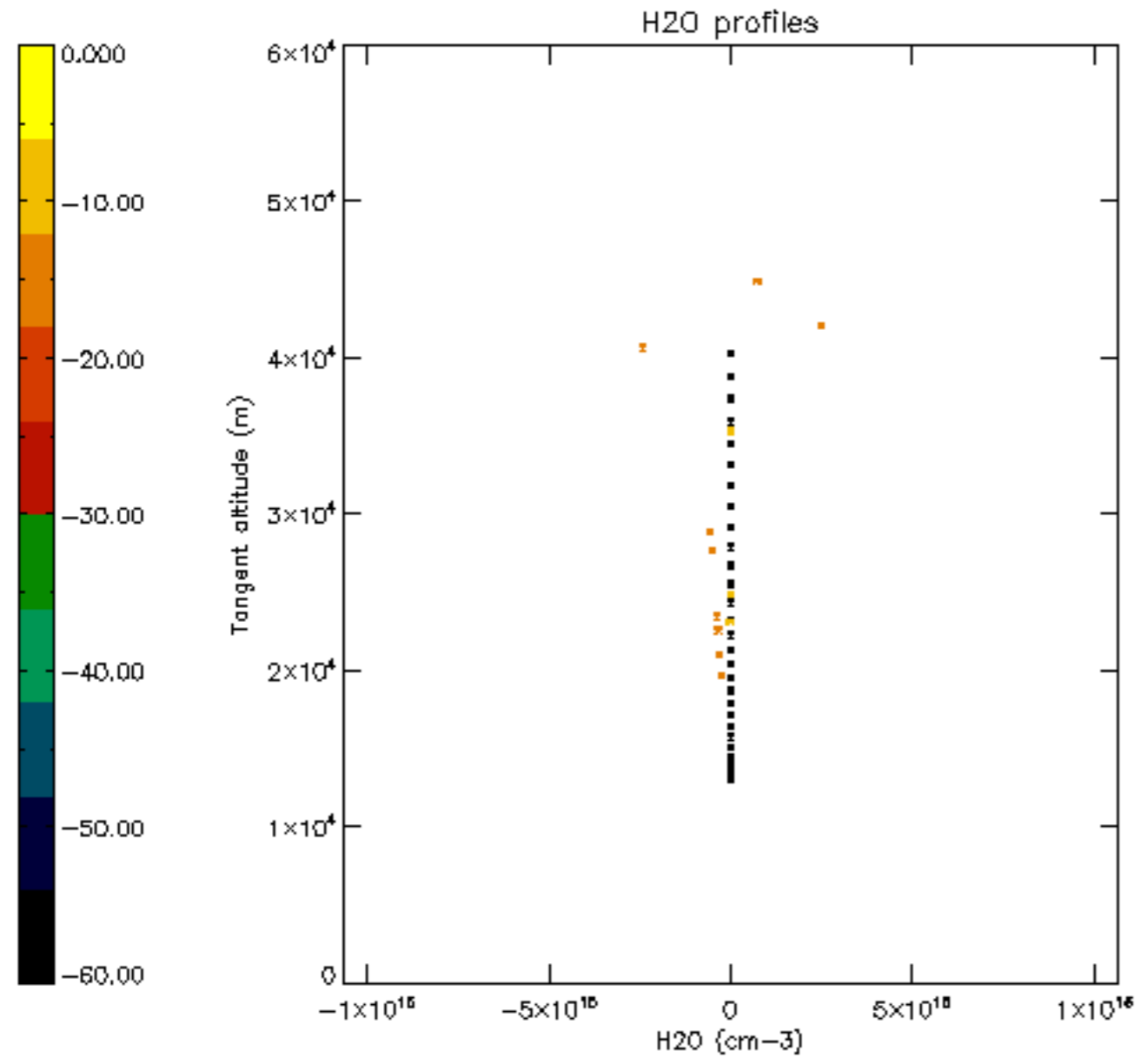


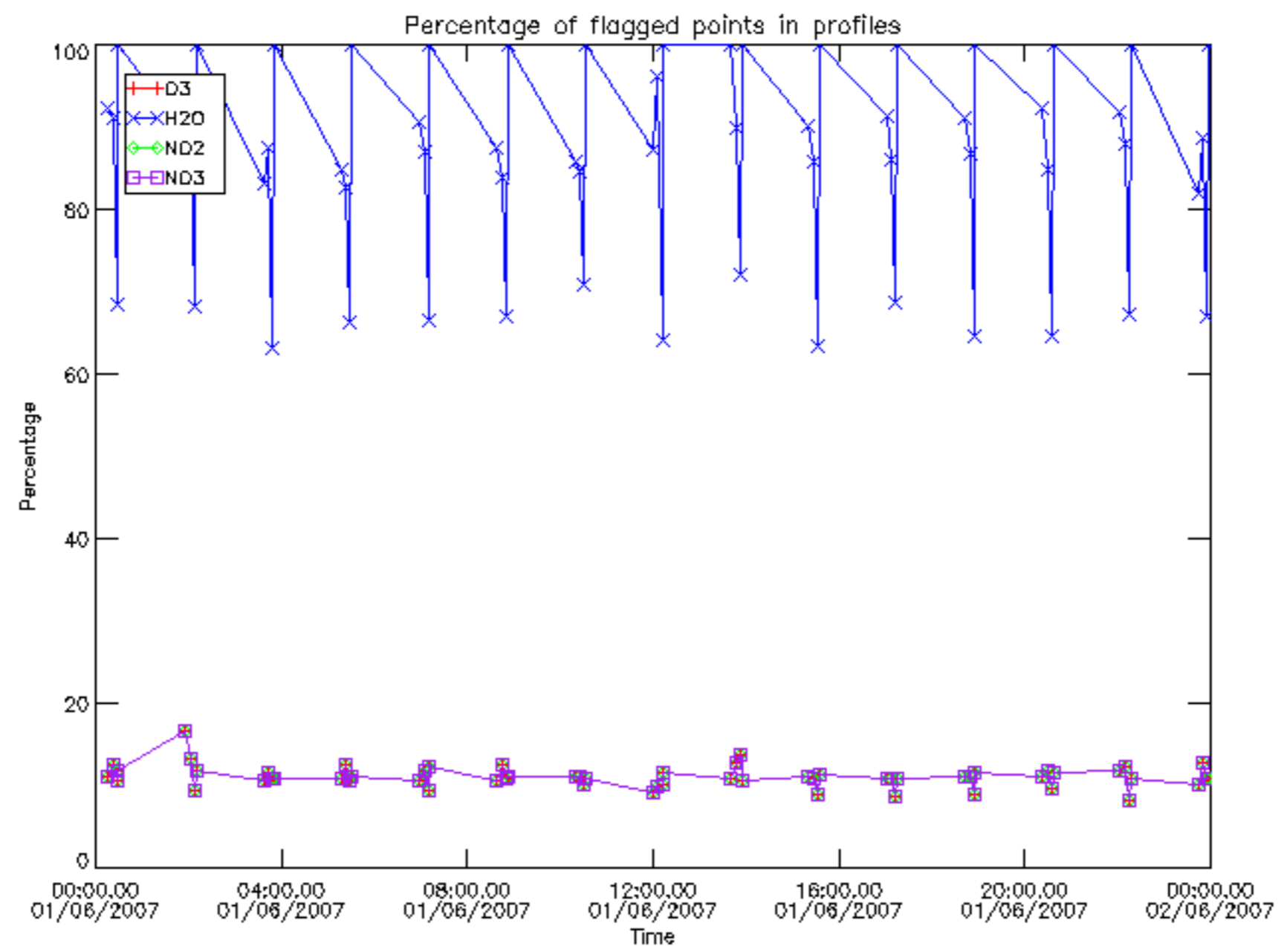




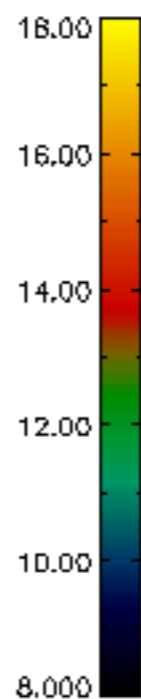
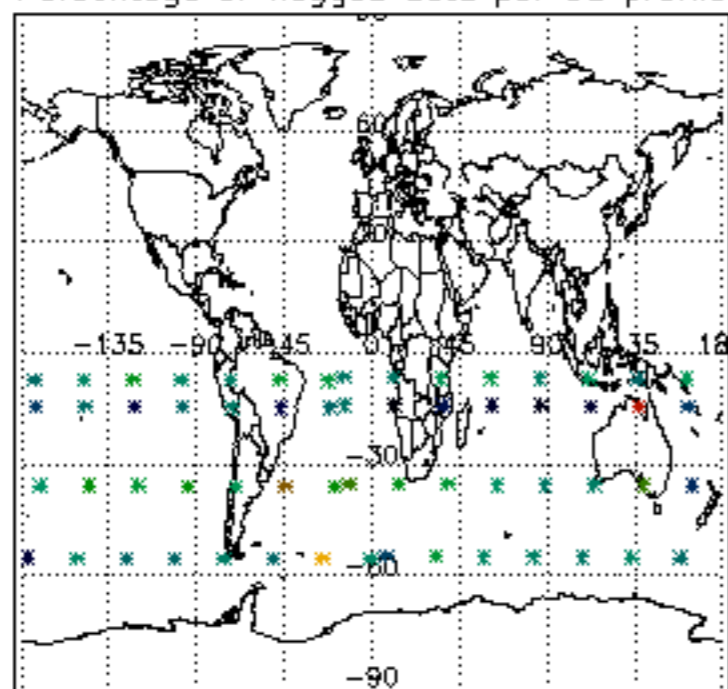




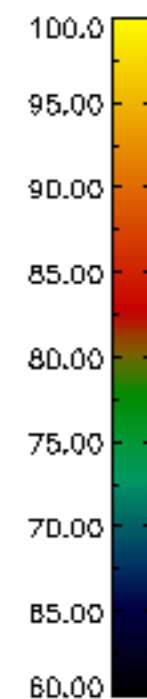
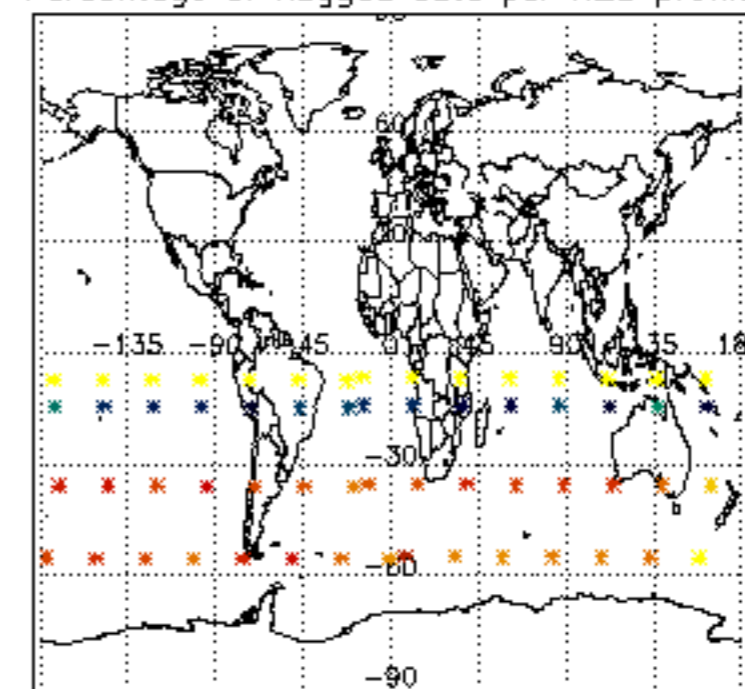




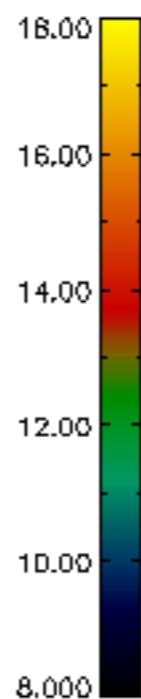
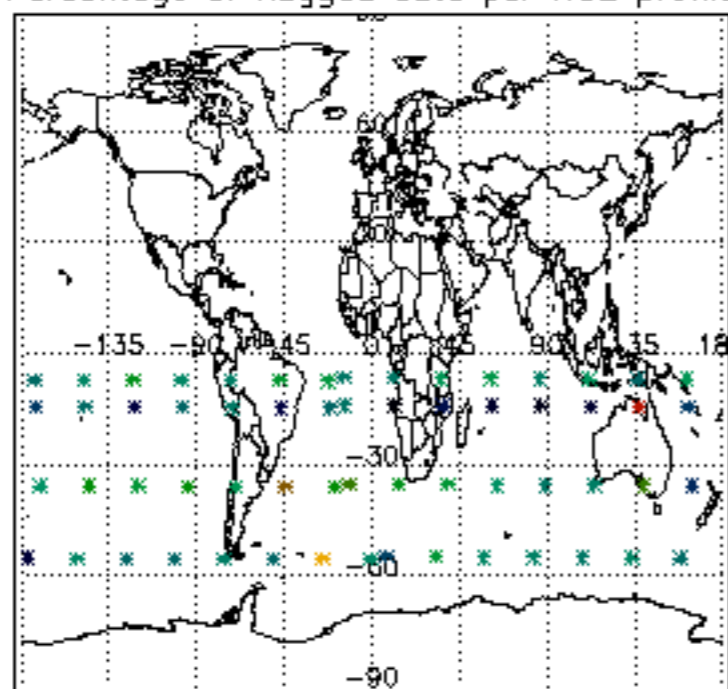
Percentage of flagged data per D3 profile



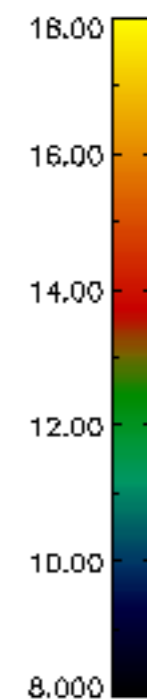
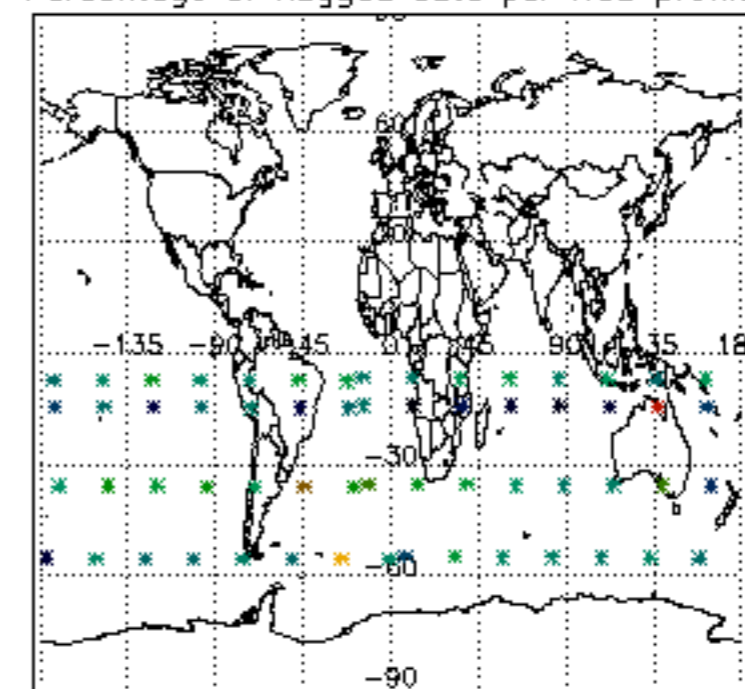
Percentage of flagged data per H2O profile

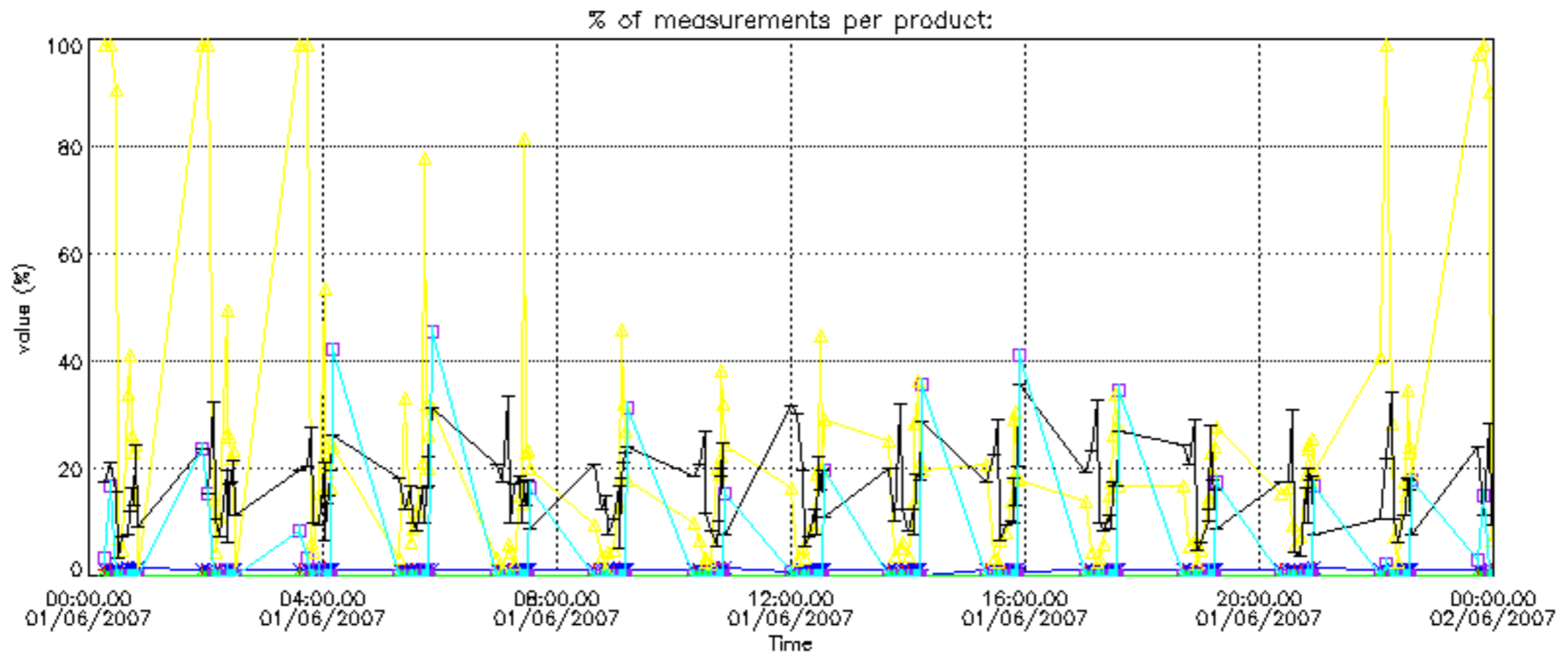


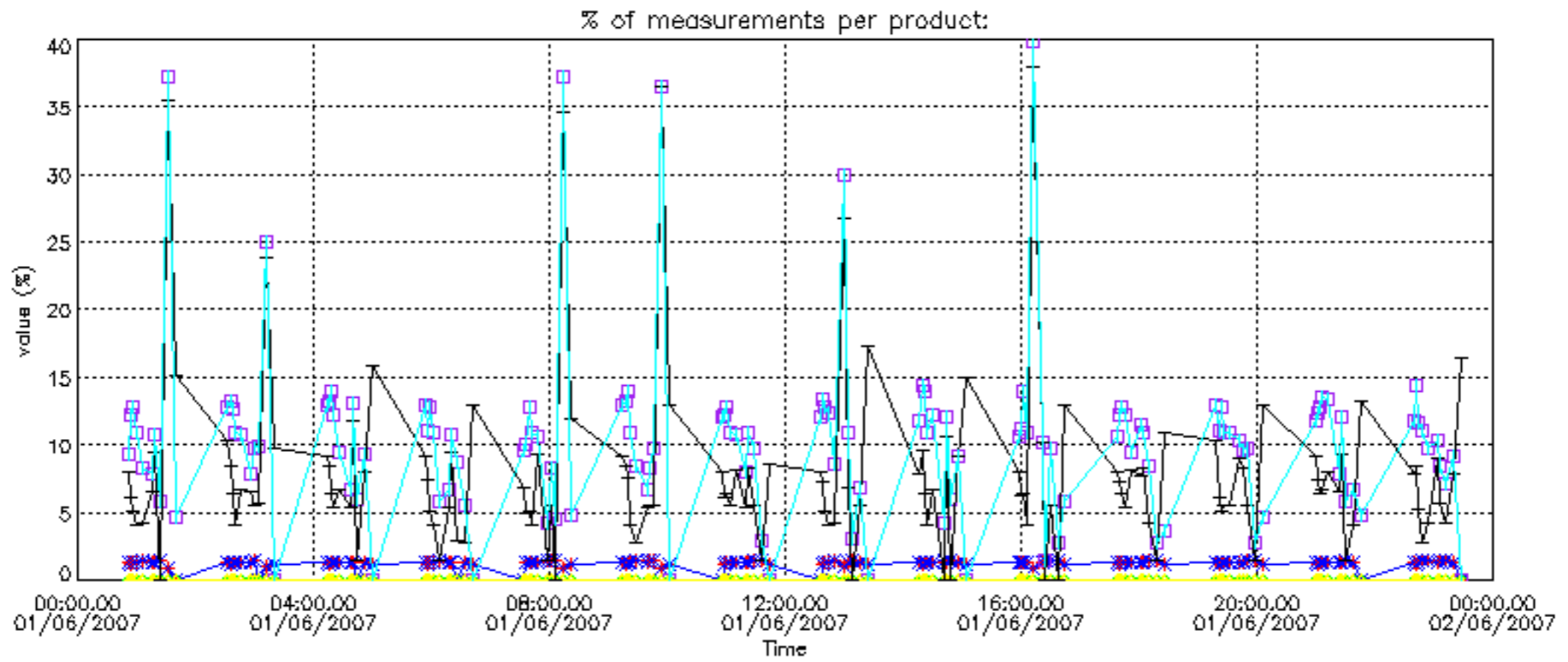
Percentage of flagged data per NO2 profile



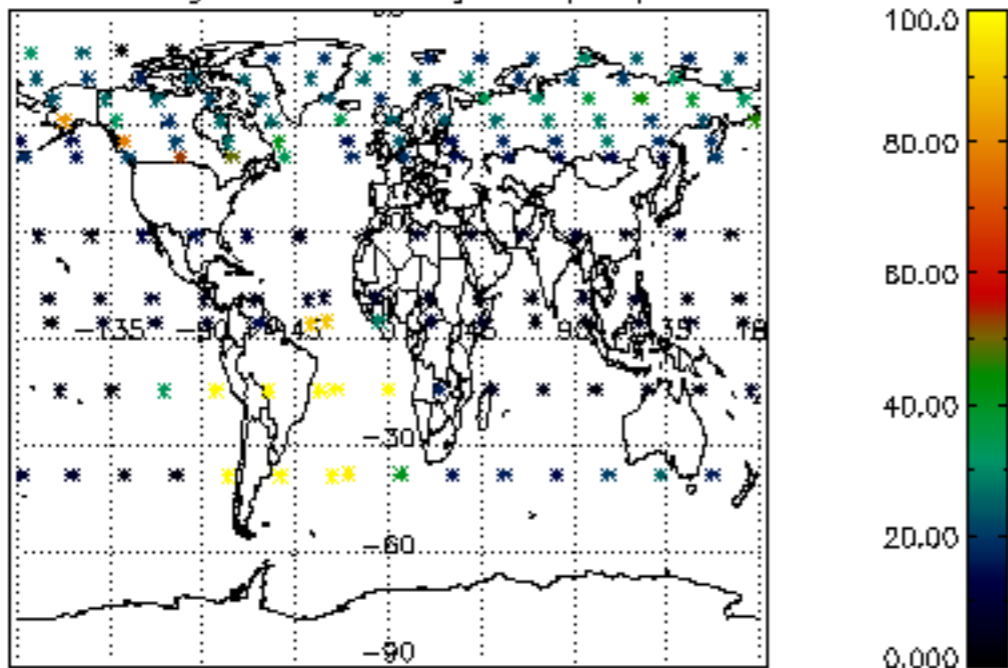
Percentage of flagged data per NO3 profile



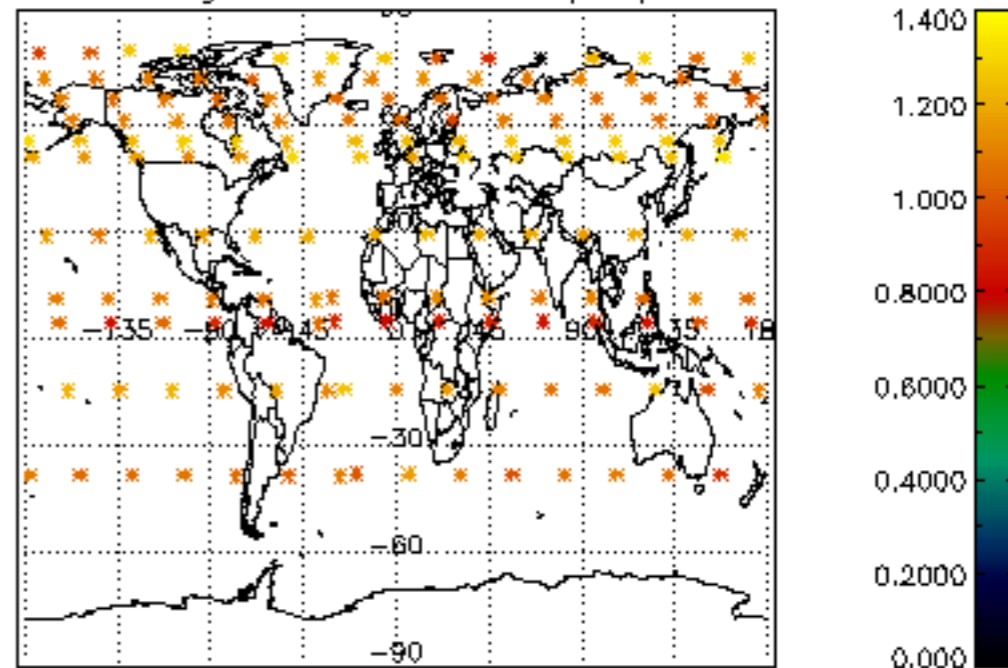




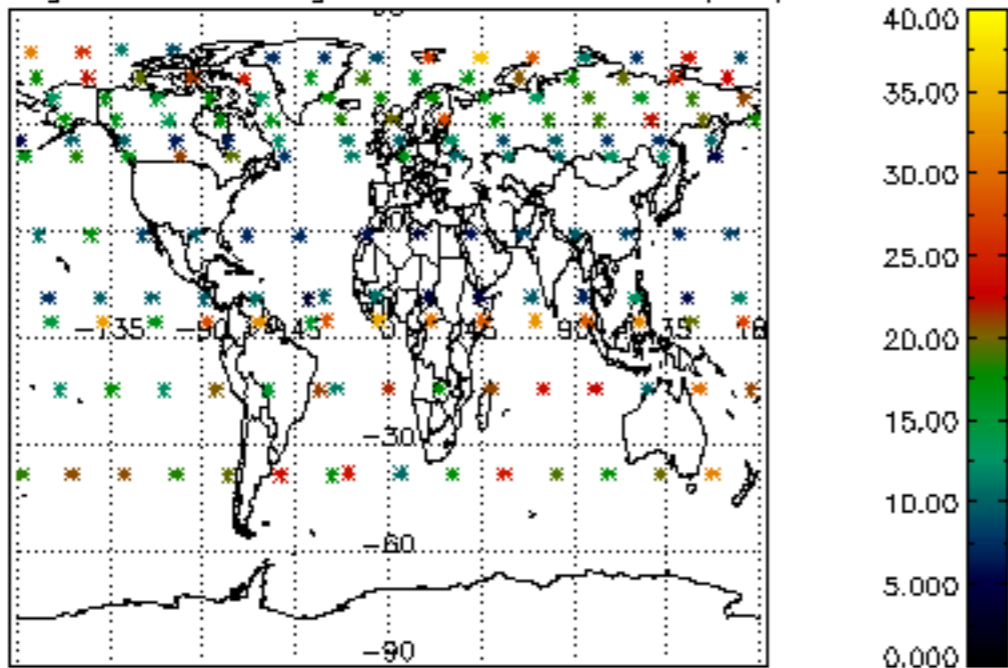
Percentage of cosmic ray hits per profile



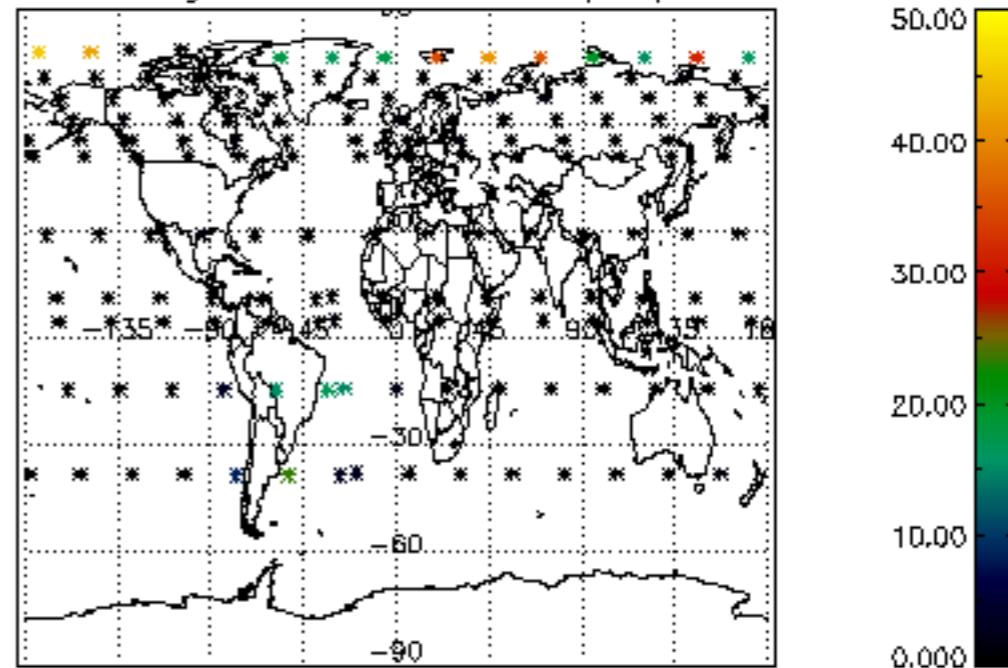
Percentage of datation errors per profile



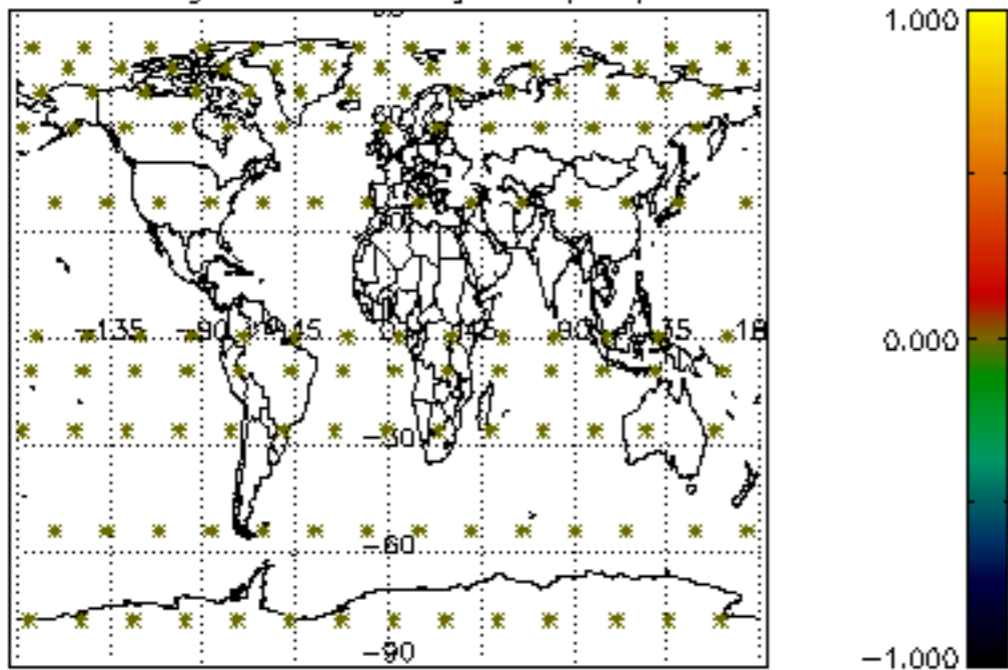
Percentage of star falling outside central band per profile



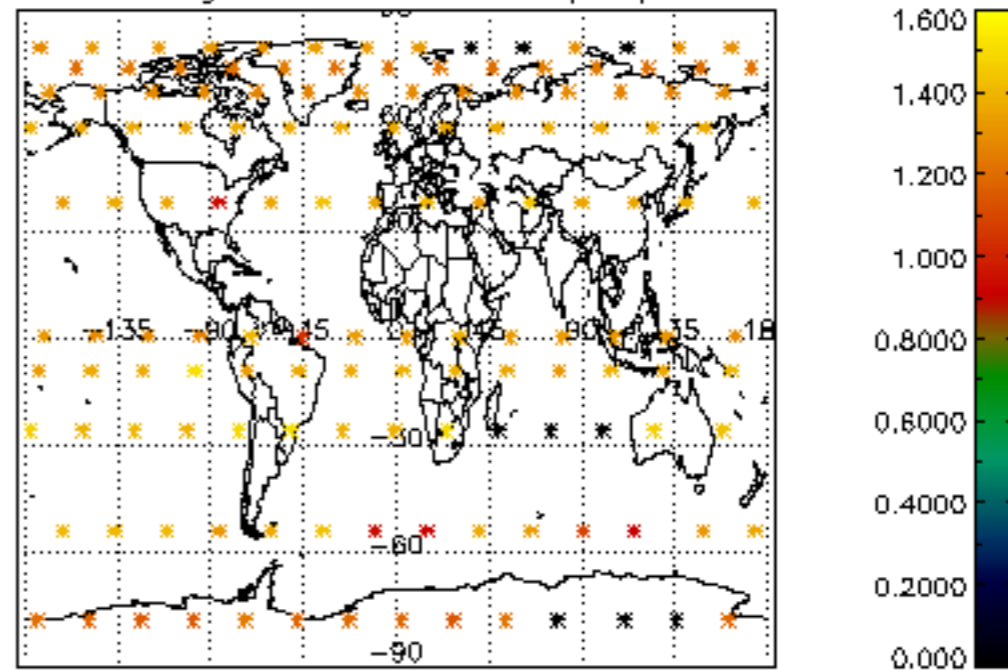
Percentage of saturation errors per profile



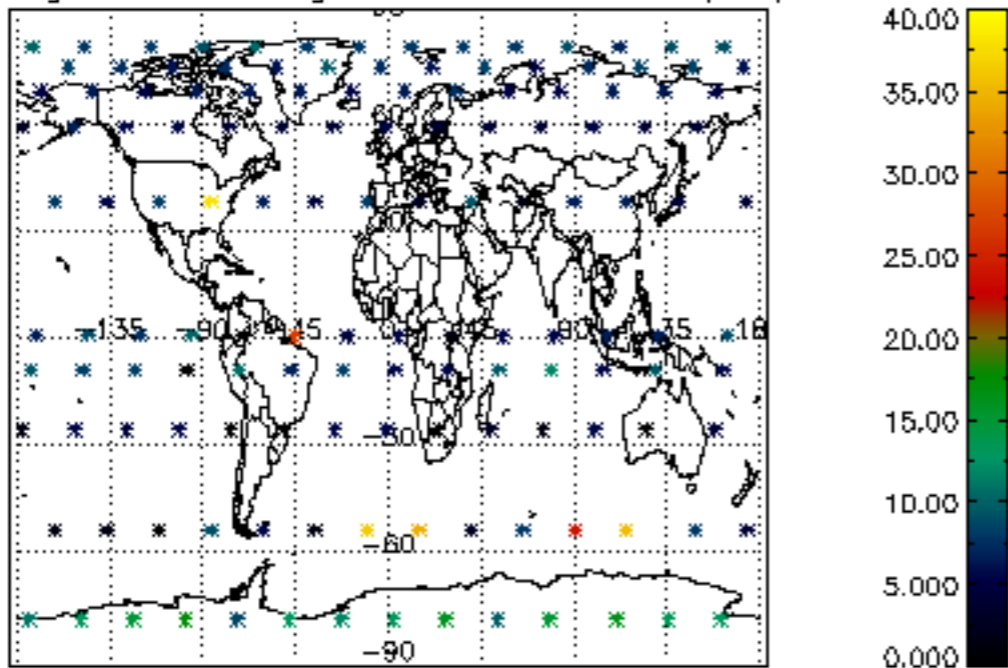
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

