

GOMOS Level 2 Daily Report

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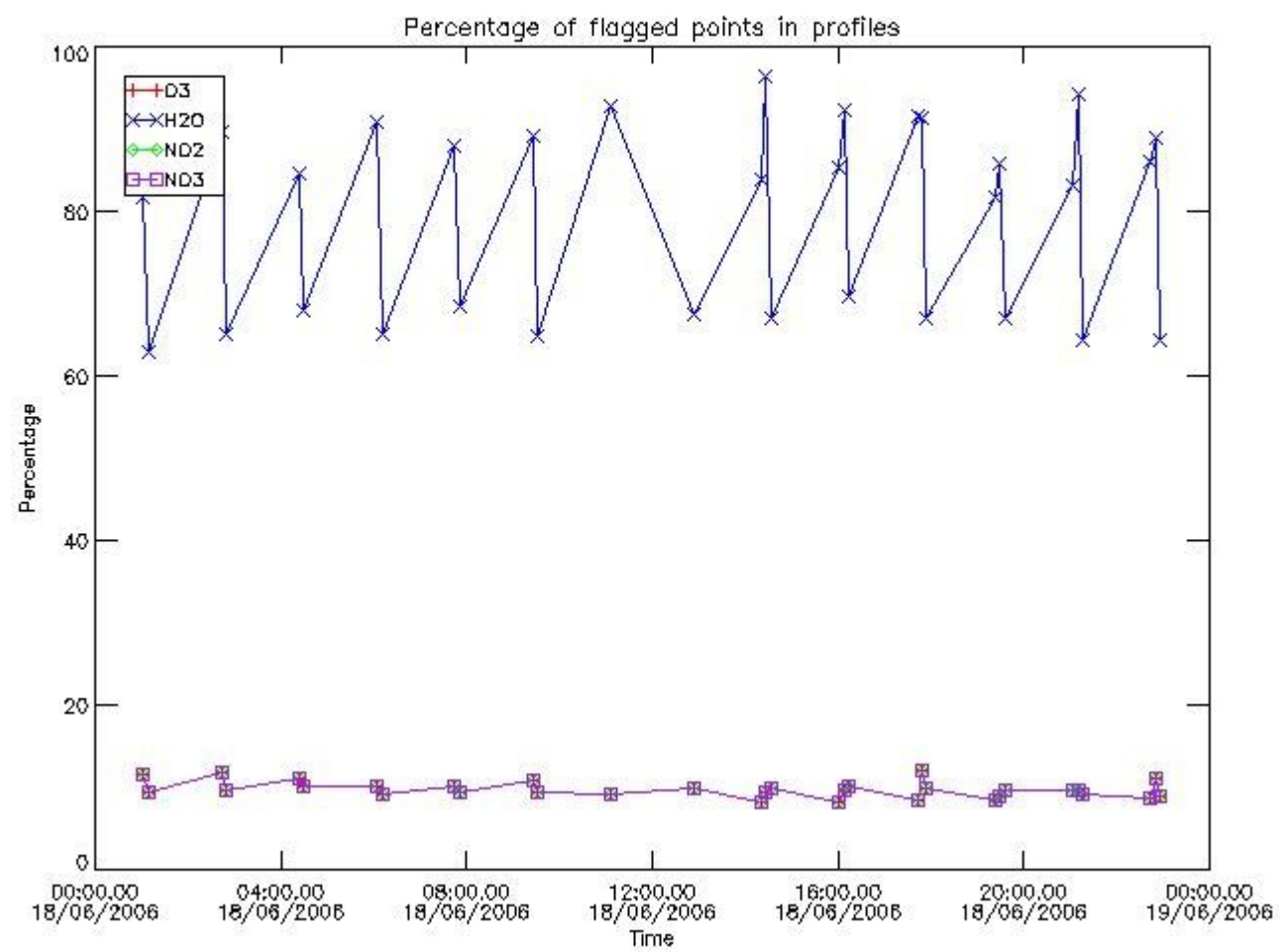
[6. Auxiliary Data Files used for the production reported in section 2](#)

220	GOM_NL__2PRFIN20060618_214634_000000422048_00387_22485_9234.N1	18-JUN-2006 21:46:34	Bright	42.000	59	55Alp Oph	2.0800	8900.0	84	22485	No
221	GOM_NL__2PRFIN20060618_215139_000000382048_00387_22485_9235.N1	18-JUN-2006 21:51:39	Bright	37.500	133	40Zet Her	2.8070	6000.0	75	22485	No
222	GOM_NL__2PRFIN20060618_215819_000000402048_00387_22485_9236.N1	18-JUN-2006 21:58:19	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	22485	No
223	GOM_NL__2PRFIN20060618_220831_000000472048_00387_22485_9237.N1	18-JUN-2006 22:08:31	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	22485	No
224	GOM_NL__2PRFIN20060618_221511_000000452048_00387_22485_9238.N1	18-JUN-2006 22:15:11	Bright	45.000	74	11Bet Cas	2.2680	6600.0	90	22485	No
225	GOM_NL__2PRFIN20060618_221637_000000452048_00387_22485_9239.N1	18-JUN-2006 22:16:37	Bright	44.500	68	18Alp Cas	2.2250	4500.0	89	22485	No
226	GOM_NL__2PRFIN20060618_222157_000000432048_00387_22485_9240.N1	18-JUN-2006 22:21:57	Bright	43.000	73	57Gam1And	2.2600	13100.	86	22485	No
227	GOM_NL__2PRFIN20060618_222416_000000442048_00387_22485_9241.N1	18-JUN-2006 22:24:16	Bright	43.500	173	4Bet Tri	3.0040	8900.0	87	22485	No
228	GOM_NL__2PRFIN20060618_222757_000000502048_00387_22485_9242.N1	18-JUN-2006 22:27:57	Twilight	50.000	50	13Alp Ari	2.0070	4250.0	100	22485	No
229	GOM_NL__2PRFIN20060618_224415_000000582048_00387_22485_9243.N1	18-JUN-2006 22:44:15	Dark	58.000	52	16Bet Cet	2.0370	4500.0	116	22485	No
230	GOM_NL__2PRFIN20060618_225016_000000462048_00387_22485_9244.N1	18-JUN-2006 22:50:16	Dark	46.000	84	Alp Phe	2.3970	4500.0	92	22485	No
231	GOM_NL__2PRFIN20060618_225636_000000572048_00388_22486_9227.N1	18-JUN-2006 22:56:36	Dark	56.500	63	Bet Gru	2.1500	2800.0	113	22486	No
232	GOM_NL__2PRFIN20060618_225839_000000482048_00388_22486_9228.N1	18-JUN-2006 22:58:39	Straylight	48.000	31	Alp Gru	1.7340	15200.	96	22486	No
233	GOM_NL__2PRFIN20060618_230213_000000432048_00388_22486_9229.N1	18-JUN-2006 23:02:13	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	22486	No
234	GOM_NL__2PRFIN20060618_231143_000000482048_00388_22486_9230.N1	18-JUN-2006 23:11:43	Twilight	48.000	38	20Eps Sgr	1.8360	11000.	96	22486	No
235	GOM_NL__2PRFIN20060618_231311_000000512048_00388_22486_9231.N1	18-JUN-2006 23:13:11	Twilight	50.500	116	19Del Sgr	2.7000	4100.0	101	22486	No
236	GOM_NL__2PRFIN20060618_231429_000000472048_00388_22486_9232.N1	18-JUN-2006 23:14:29	Bright	47.000	137	22Lam Sgr	2.8240	4400.0	94	22486	No
237	GOM_NL__2PRFIN20060618_232441_000000422048_00388_22486_9233.N1	18-JUN-2006 23:24:41	Bright	41.500	126	60Bet Oph	2.7700	4250.0	83	22486	No
238	GOM_NL__2PRFIN20060618_232709_000000412048_00388_22486_9234.N1	18-JUN-2006 23:27:09	Bright	41.000	59	55Alp Oph	2.0800	8900.0	82	22486	No
239	GOM_NL__2PRFIN20060618_233215_000000362048_00388_22486_9235.N1	18-JUN-2006 23:32:15	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	22486	No
240	GOM_NL__2PRFIN20060618_233855_000000402048_00388_22486_9236.N1	18-JUN-2006 23:38:55	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	22486	No
241	GOM_NL__2PRFIN20060618_234906_000000442048_00388_22486_9237.N1	18-JUN-2006 23:49:06	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	22486	No
242	GOM_NL__2PRFIN20060618_235546_000000432048_00388_22486_9238.N1	18-JUN-2006 23:55:46	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	22486	No
243	GOM_NL__2PRFIN20060618_235712_000000422048_00388_22486_9239.N1	18-JUN-2006 23:57:12	Bright	42.000	68	18Alp Cas	2.2250	4500.0	84	22486	No

3. Quality information per product

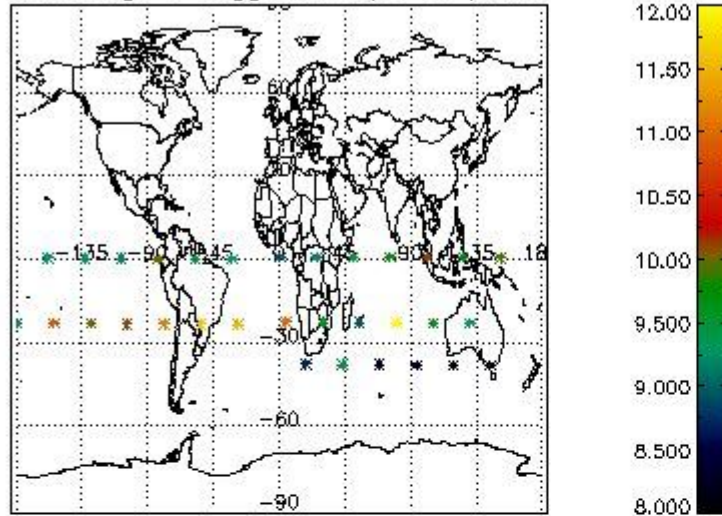
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

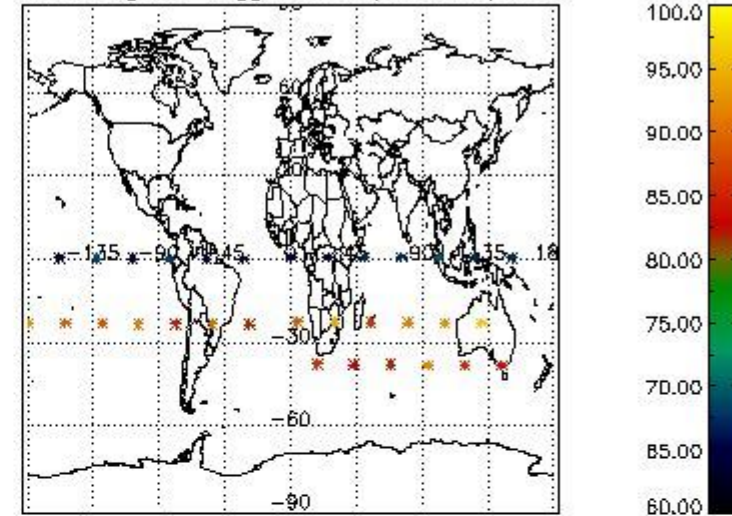


3.2 Plot quality information per product (world map)

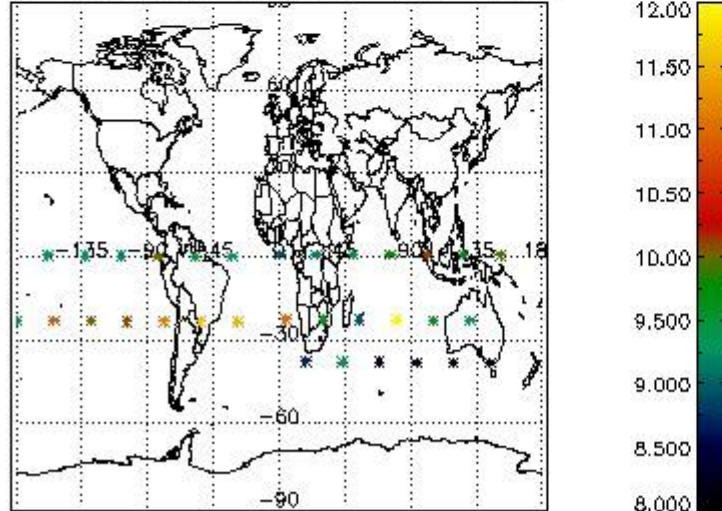
Percentage of flagged data per O3 profile



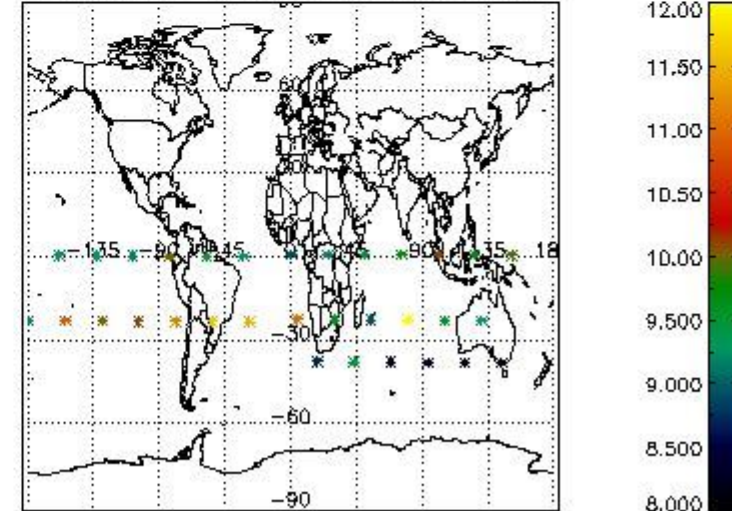
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

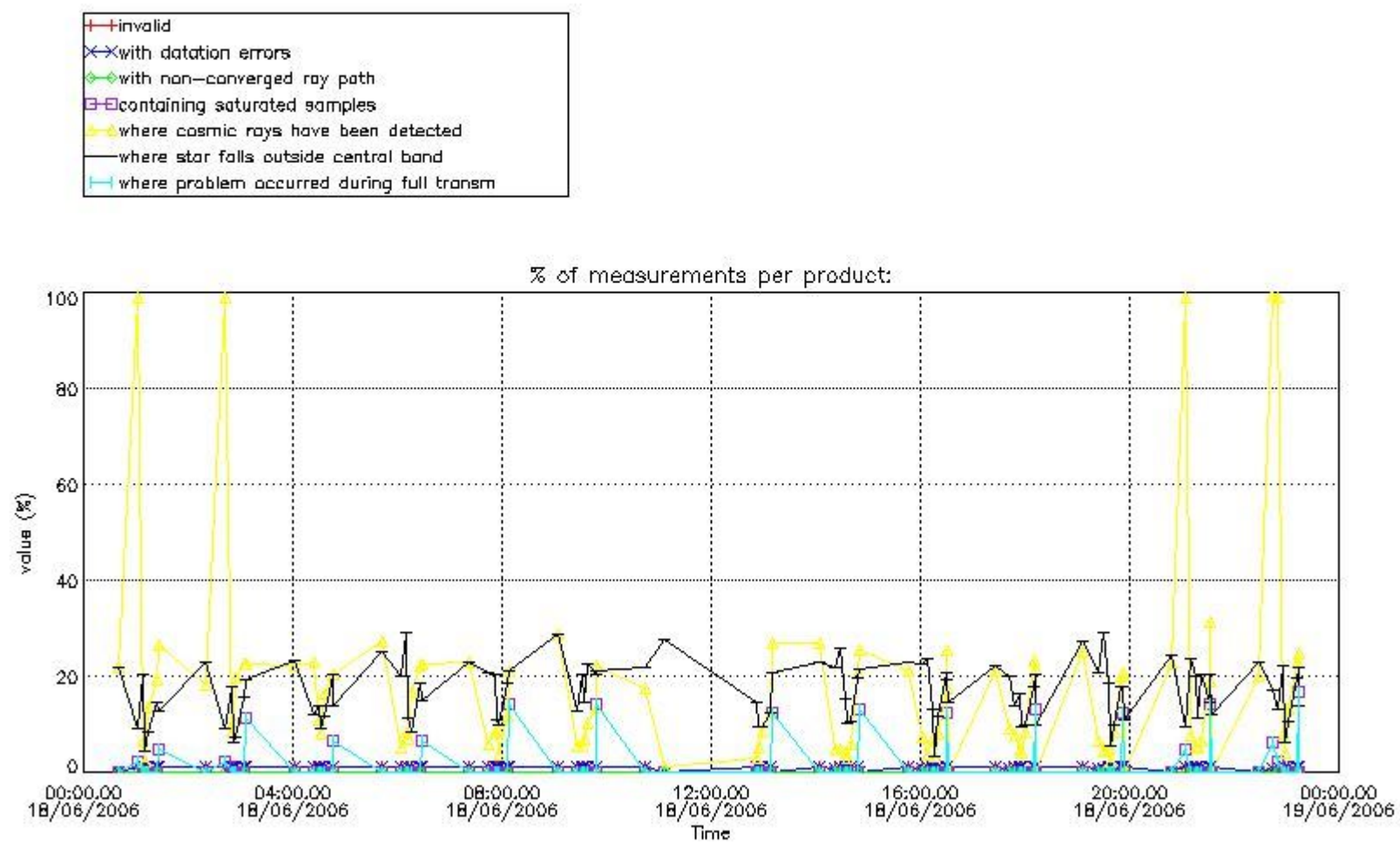


4. Level 1 quality information per product

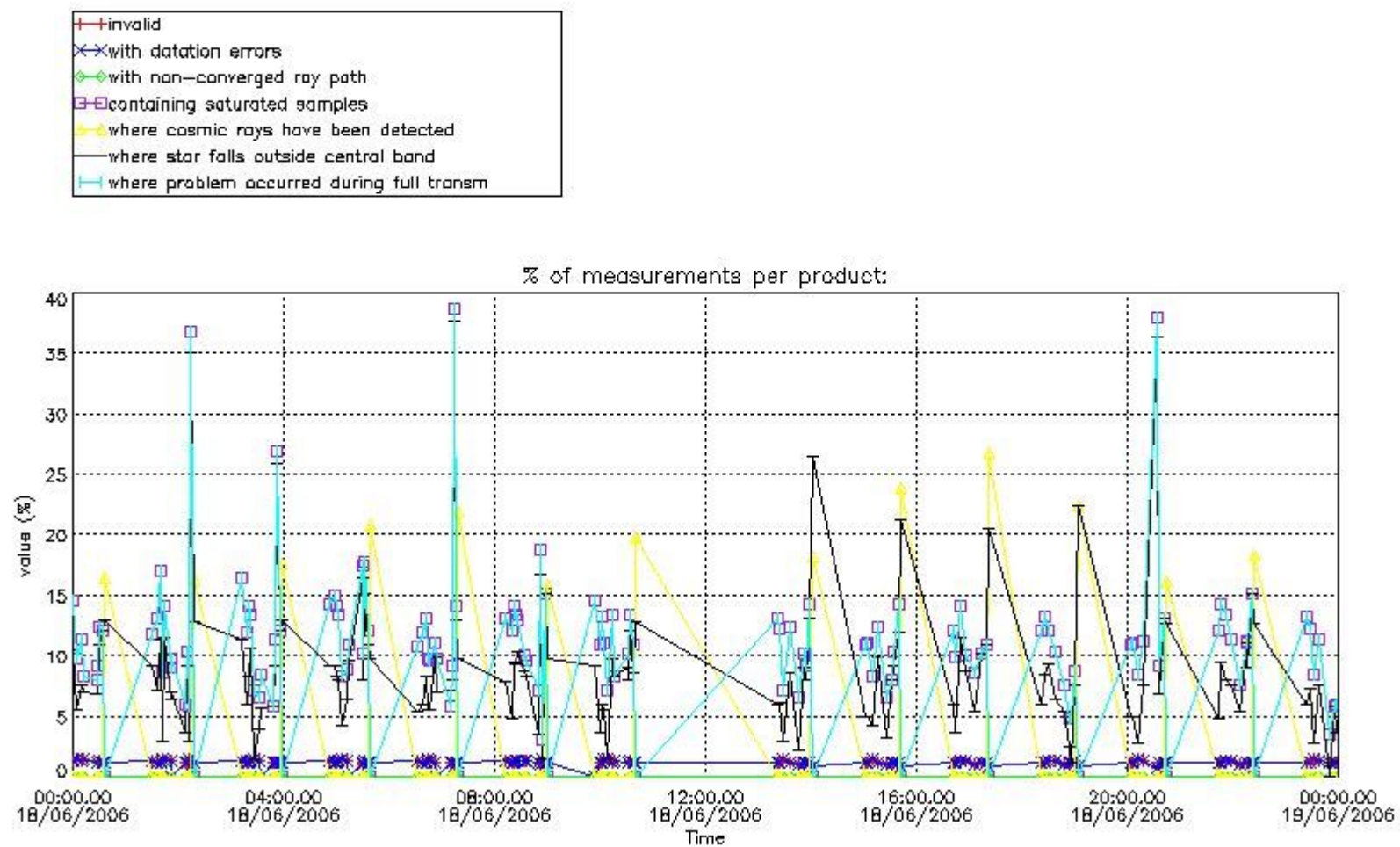
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



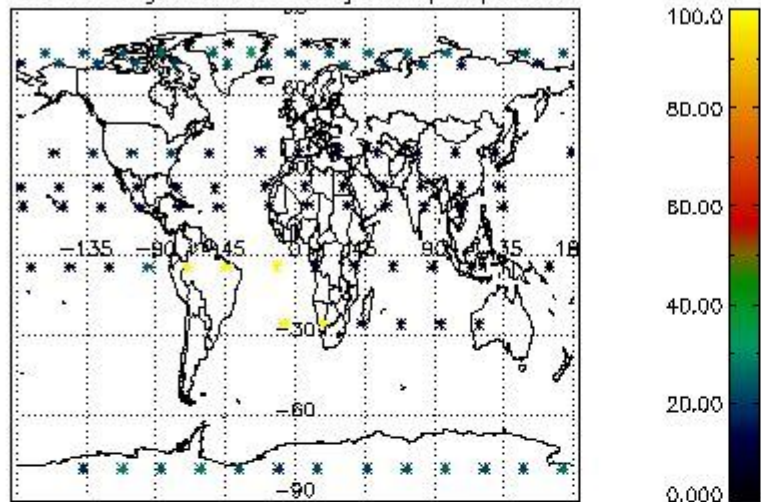
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



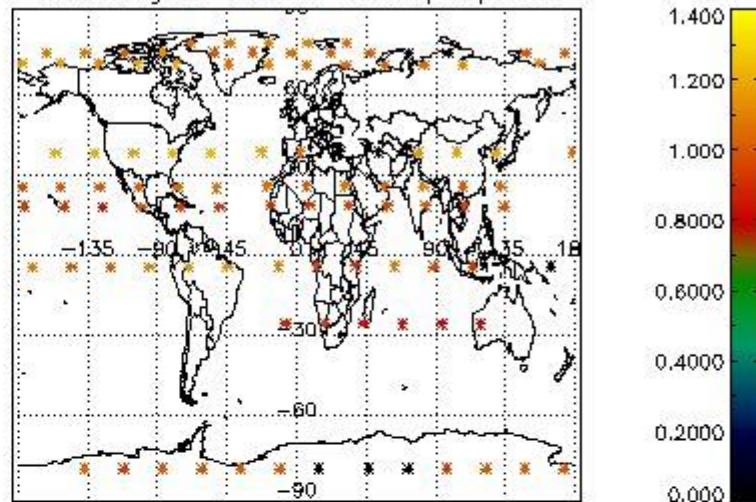
4.2 Plot quality information per product coming from level 1b processing (world map)

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

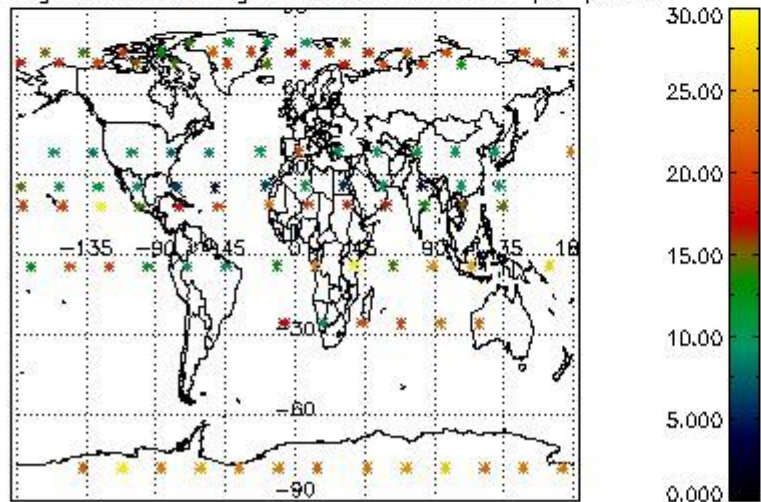
Percentage of cosmic ray hits per profile



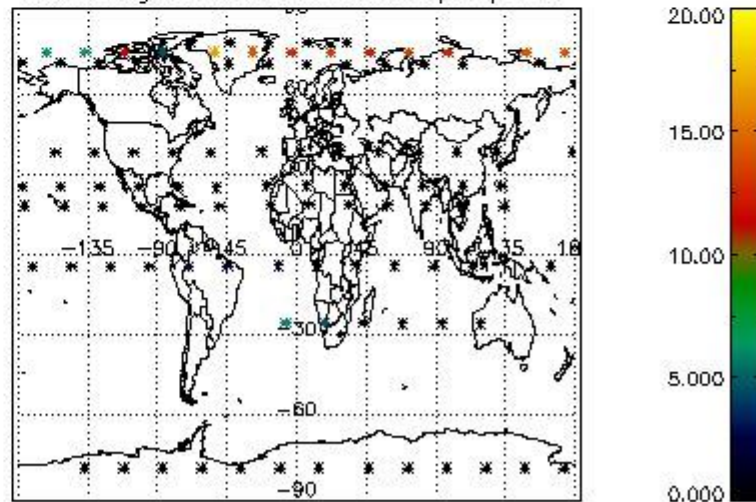
Percentage of datation errors per profile



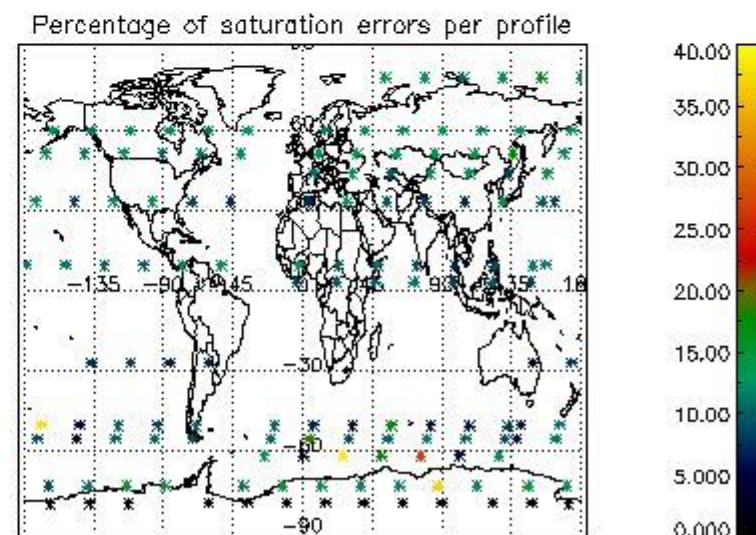
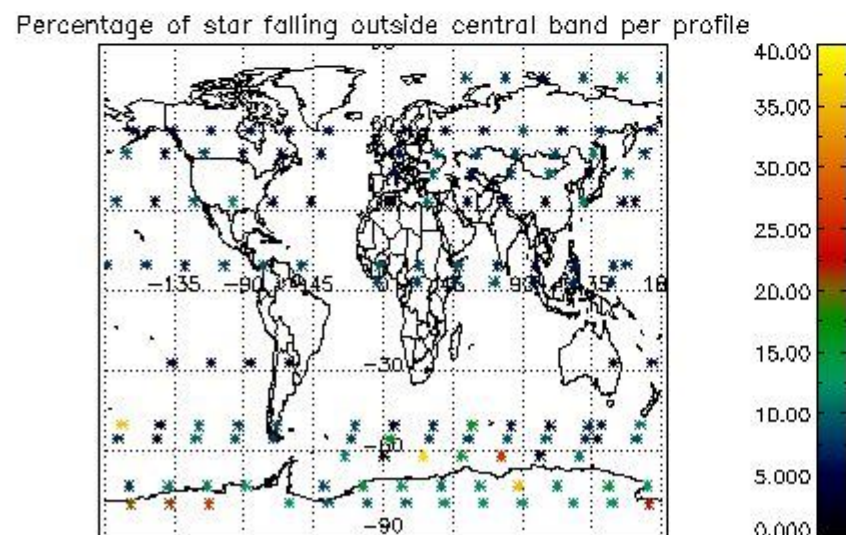
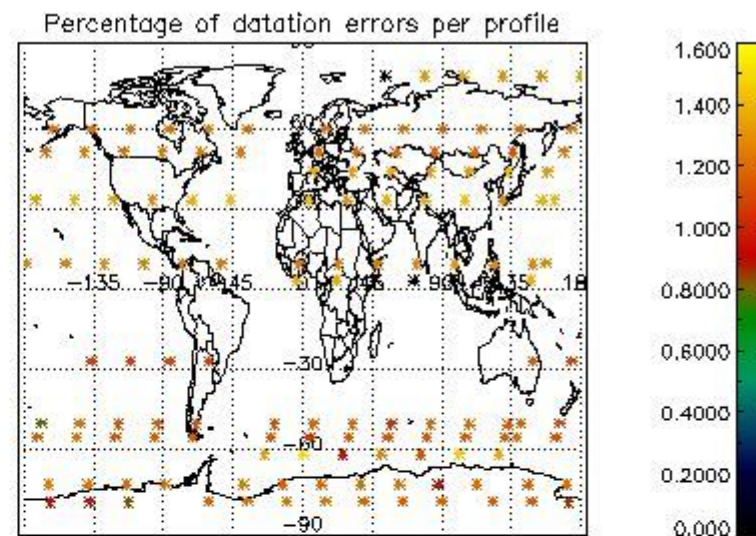
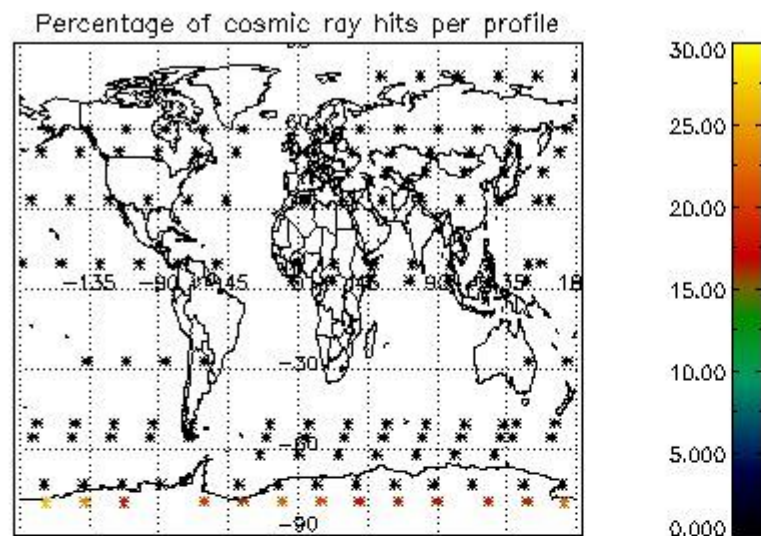
Percentage of star falling outside central band per profile



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

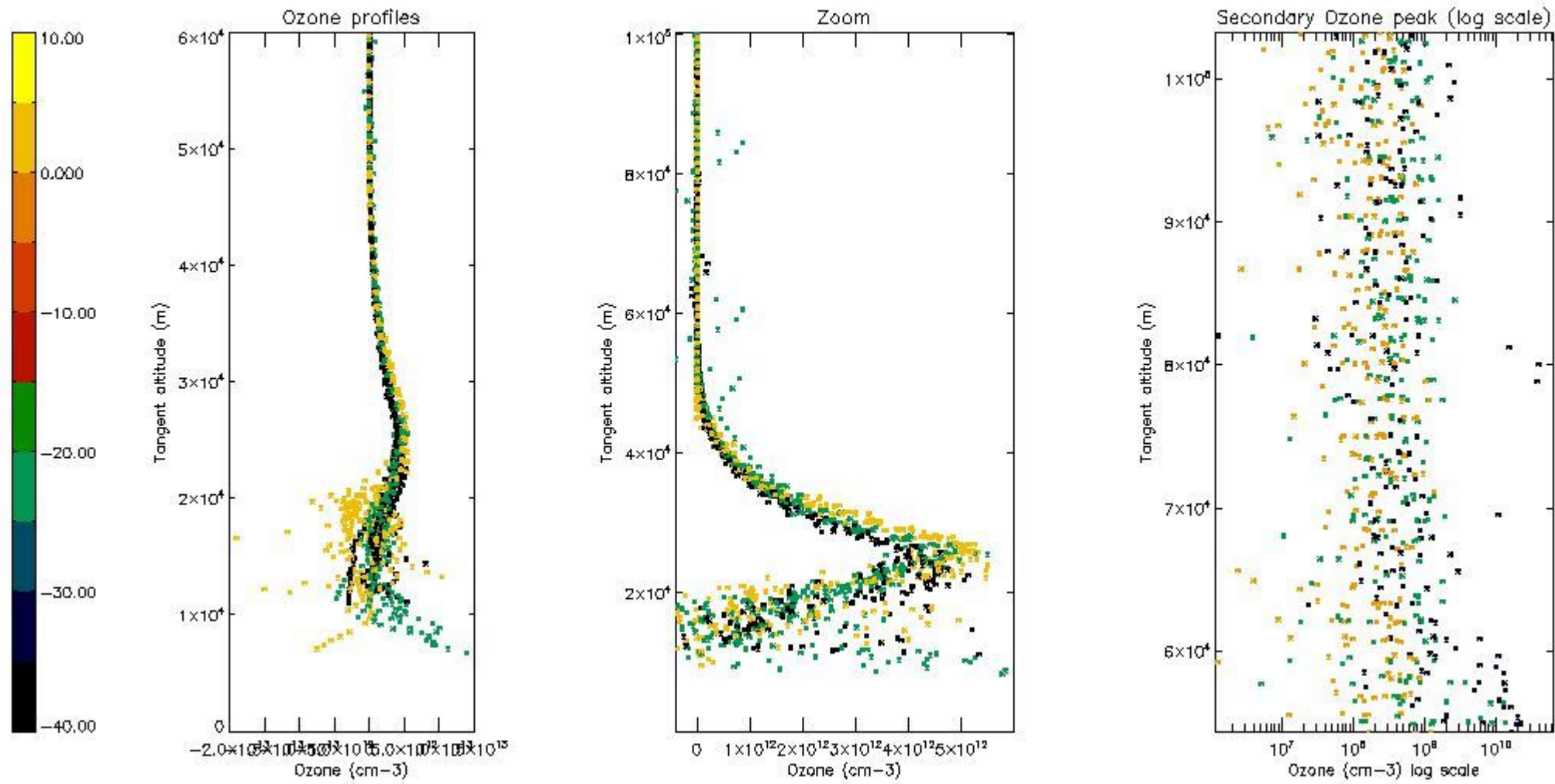
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	16
STD < 20	5

STD < 10	3
STD < 5	0

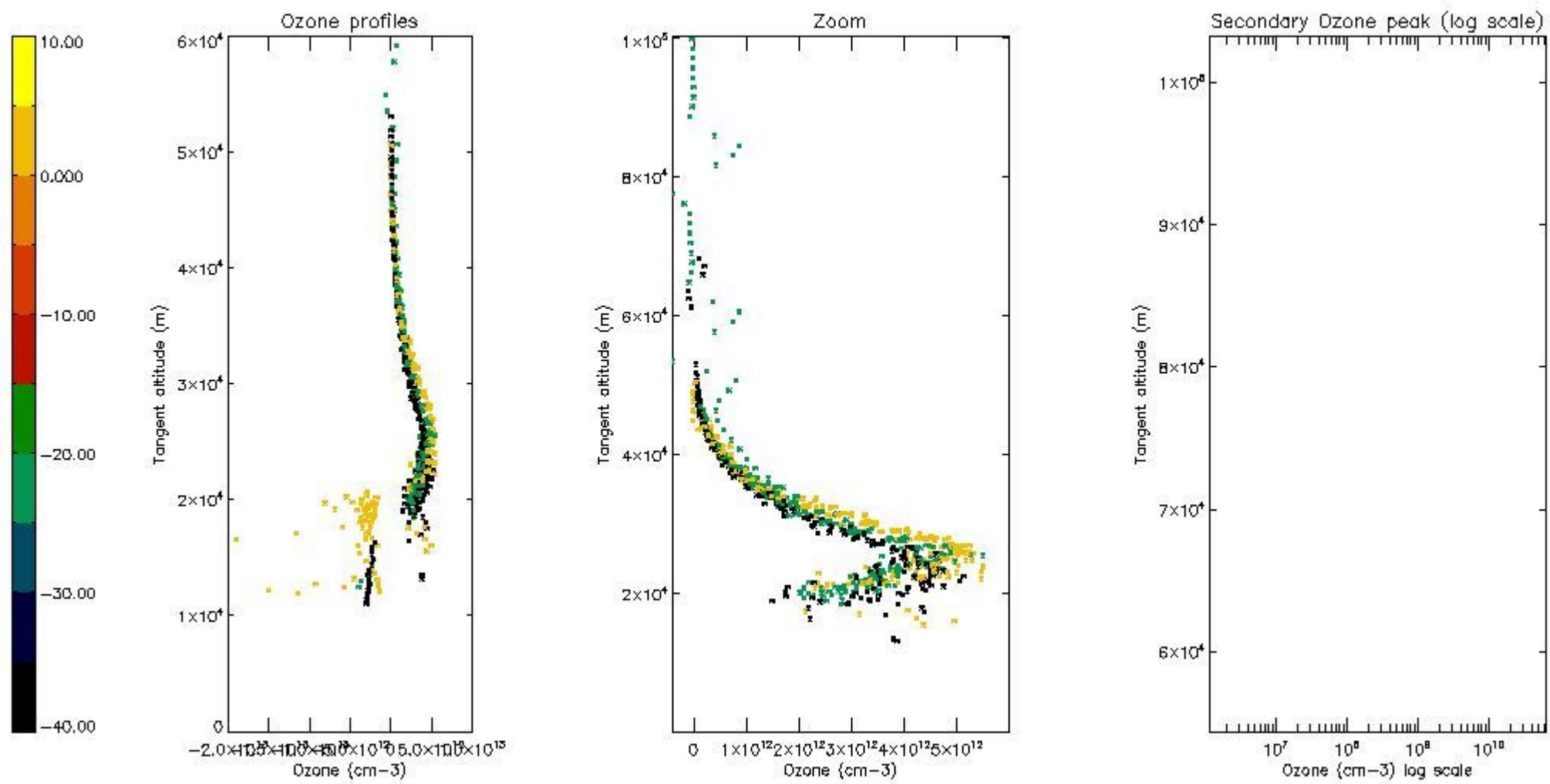
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



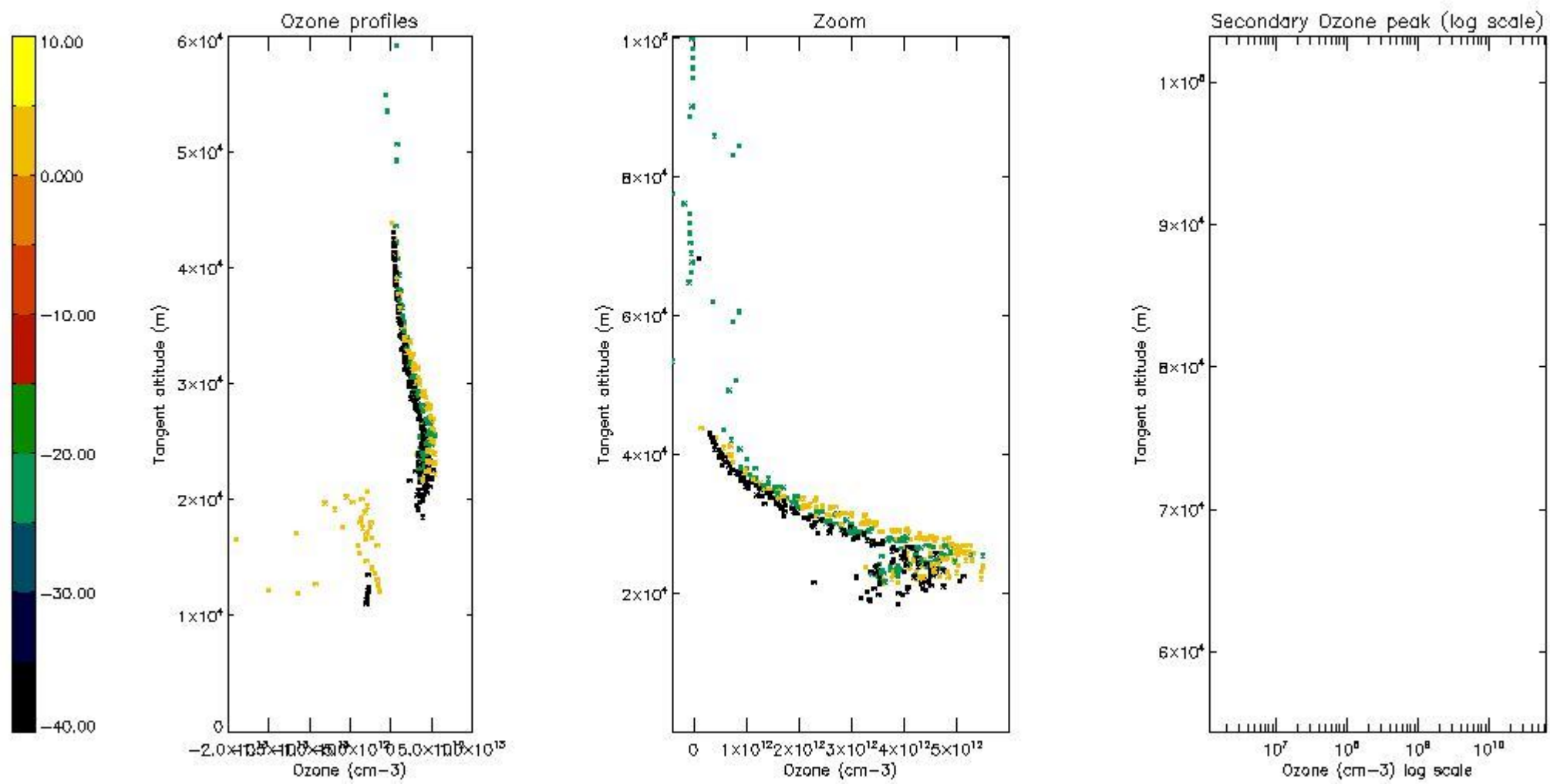
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



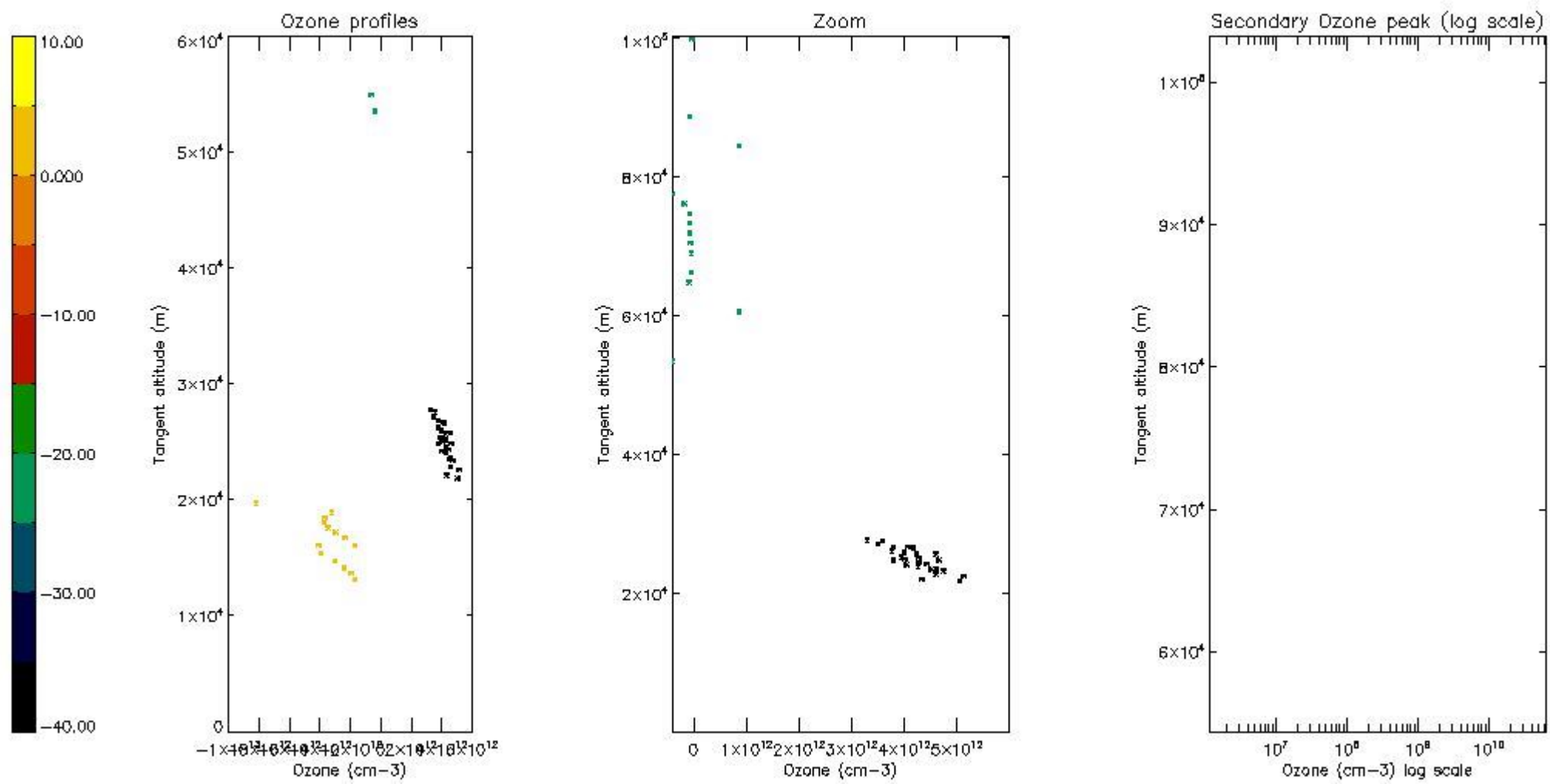
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



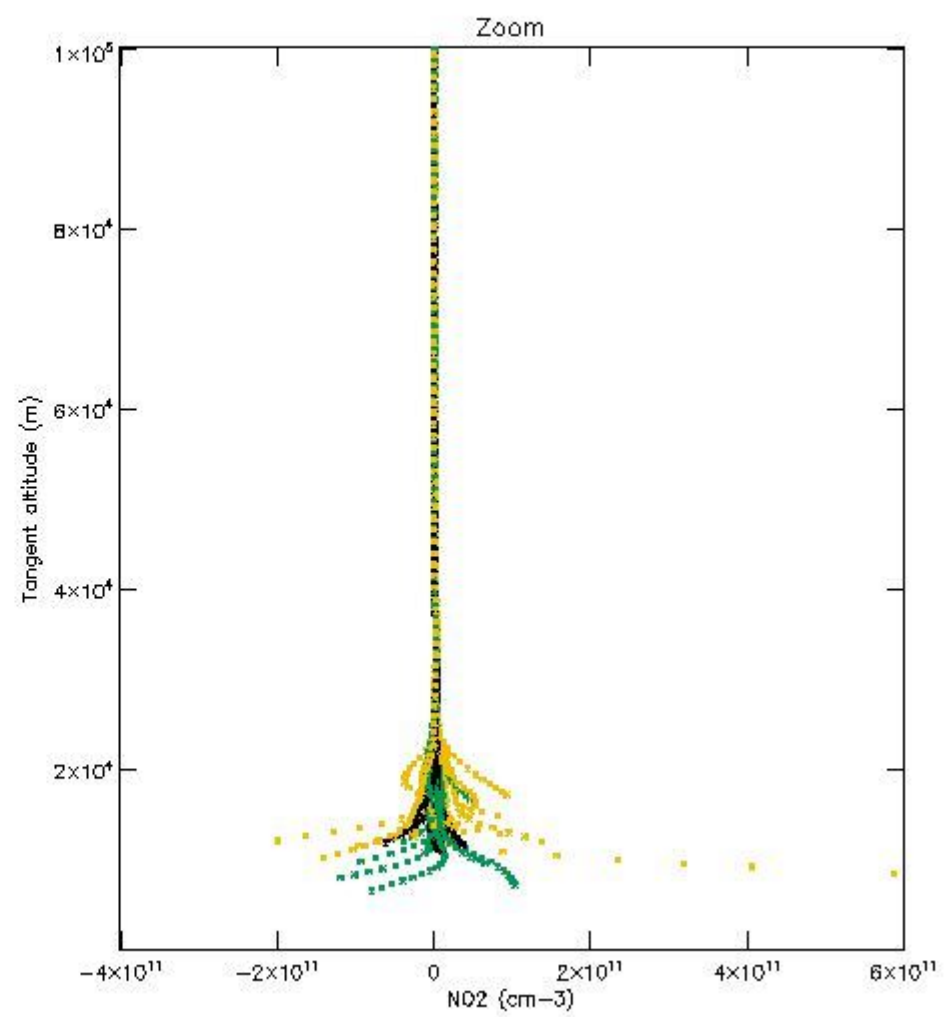
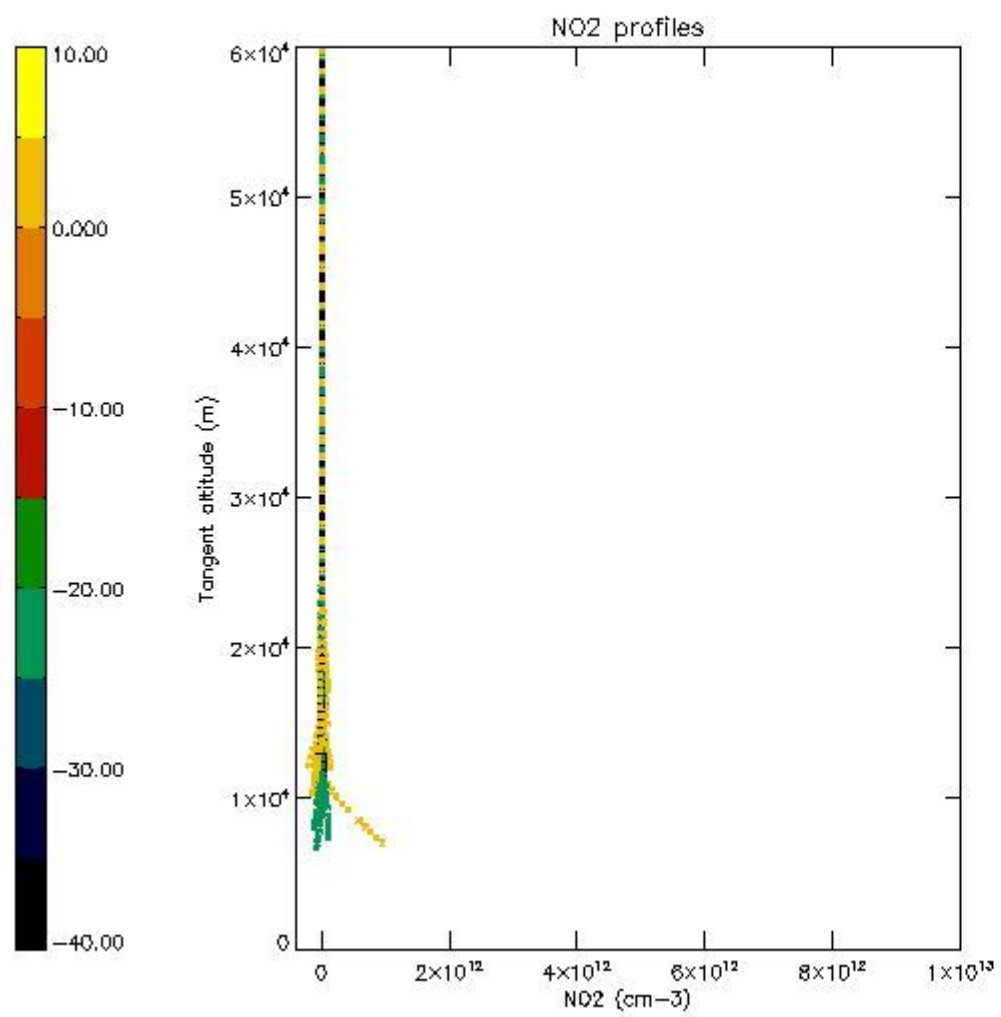
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



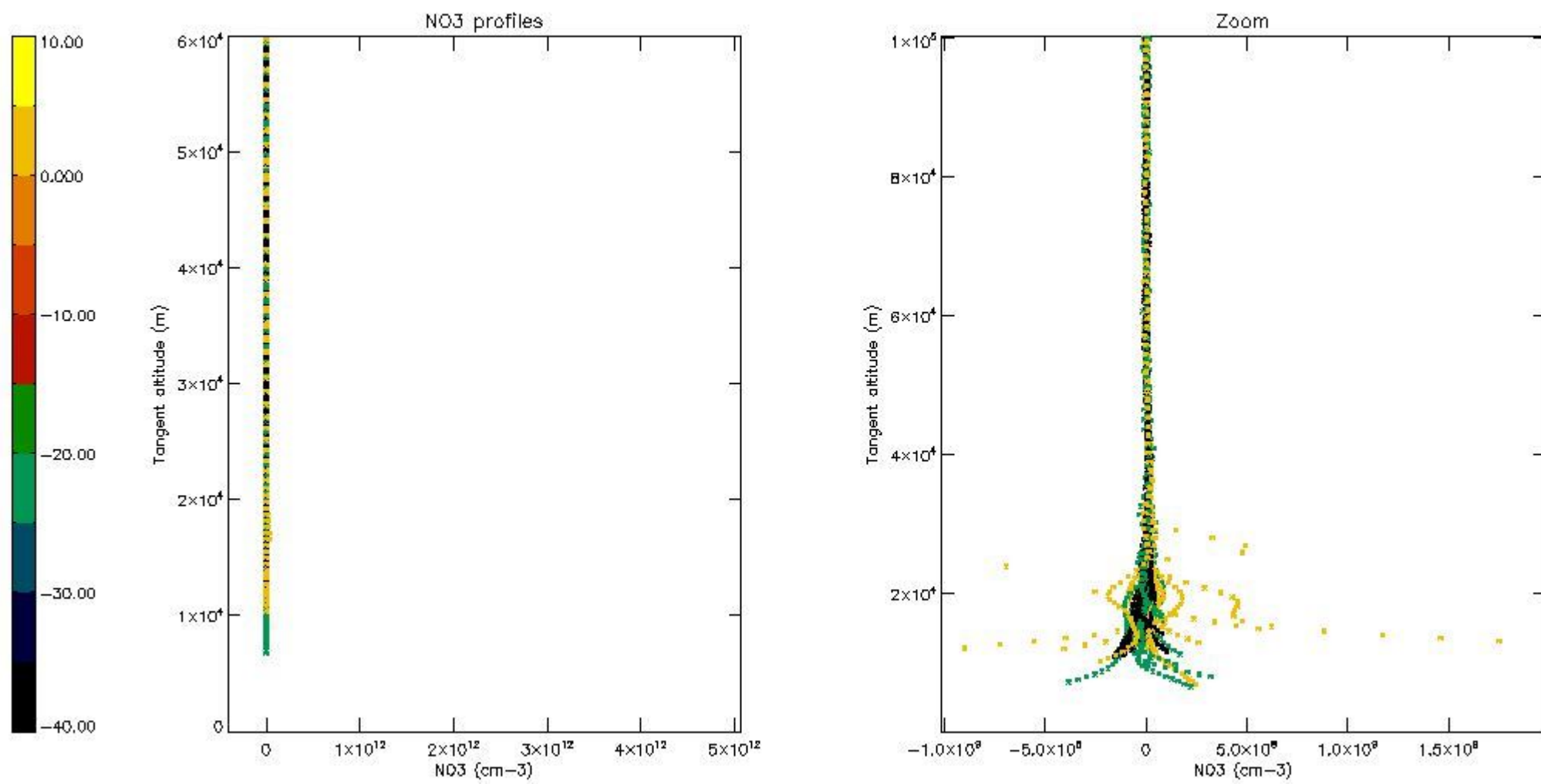
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



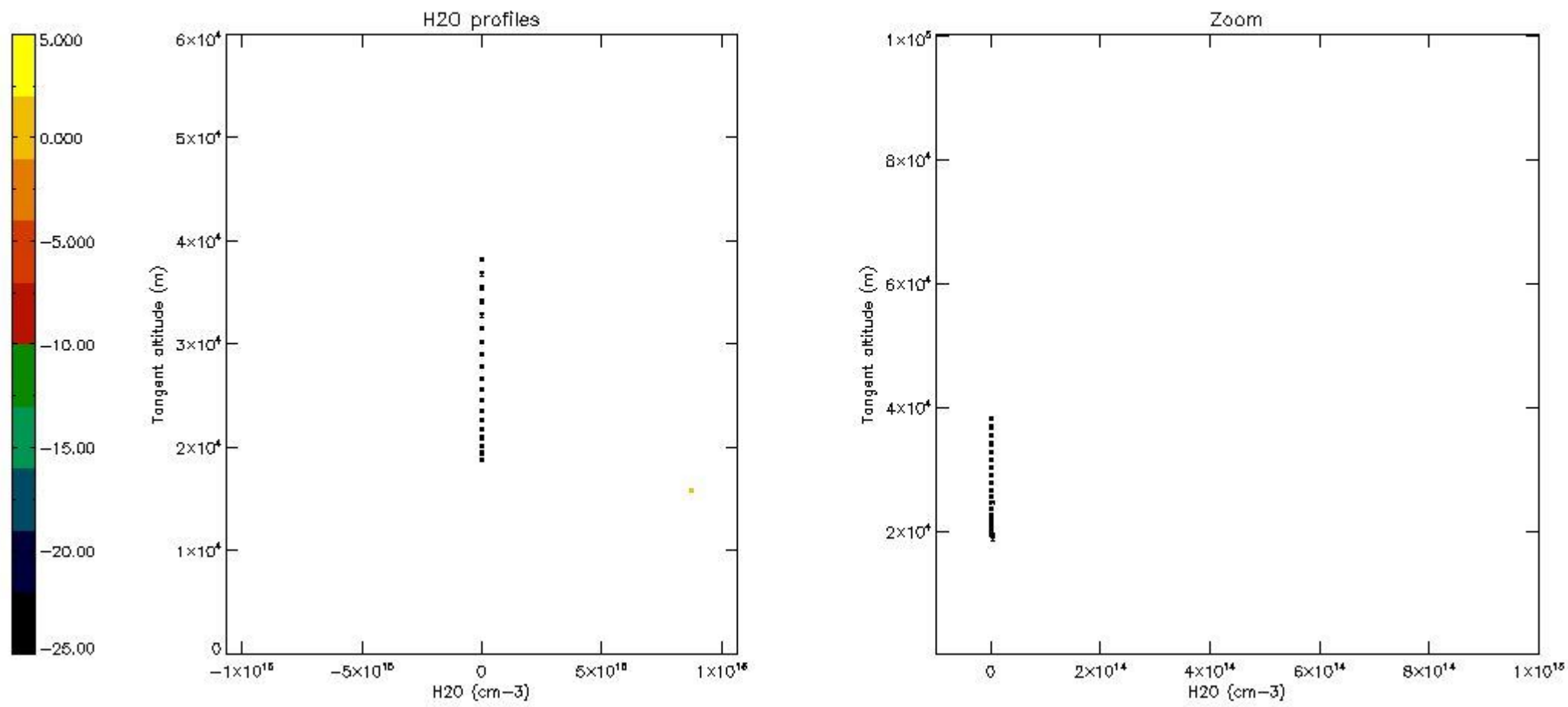
5.7 Plot NO3 profiles for all STD (dark without errors)

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	18-JUN-2006 00:00:54
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	18-JUN-2006 00:00:54
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	18-JUN-2006 00:00:54

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[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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[5.6 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	24APR2013 00:02:19
Data source version	GOMOS/6.01
Start time of products	18-06-2006 (18JUN2006 00:00:00)
Stop time of products	19-06-2006 (19JUN2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	243
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

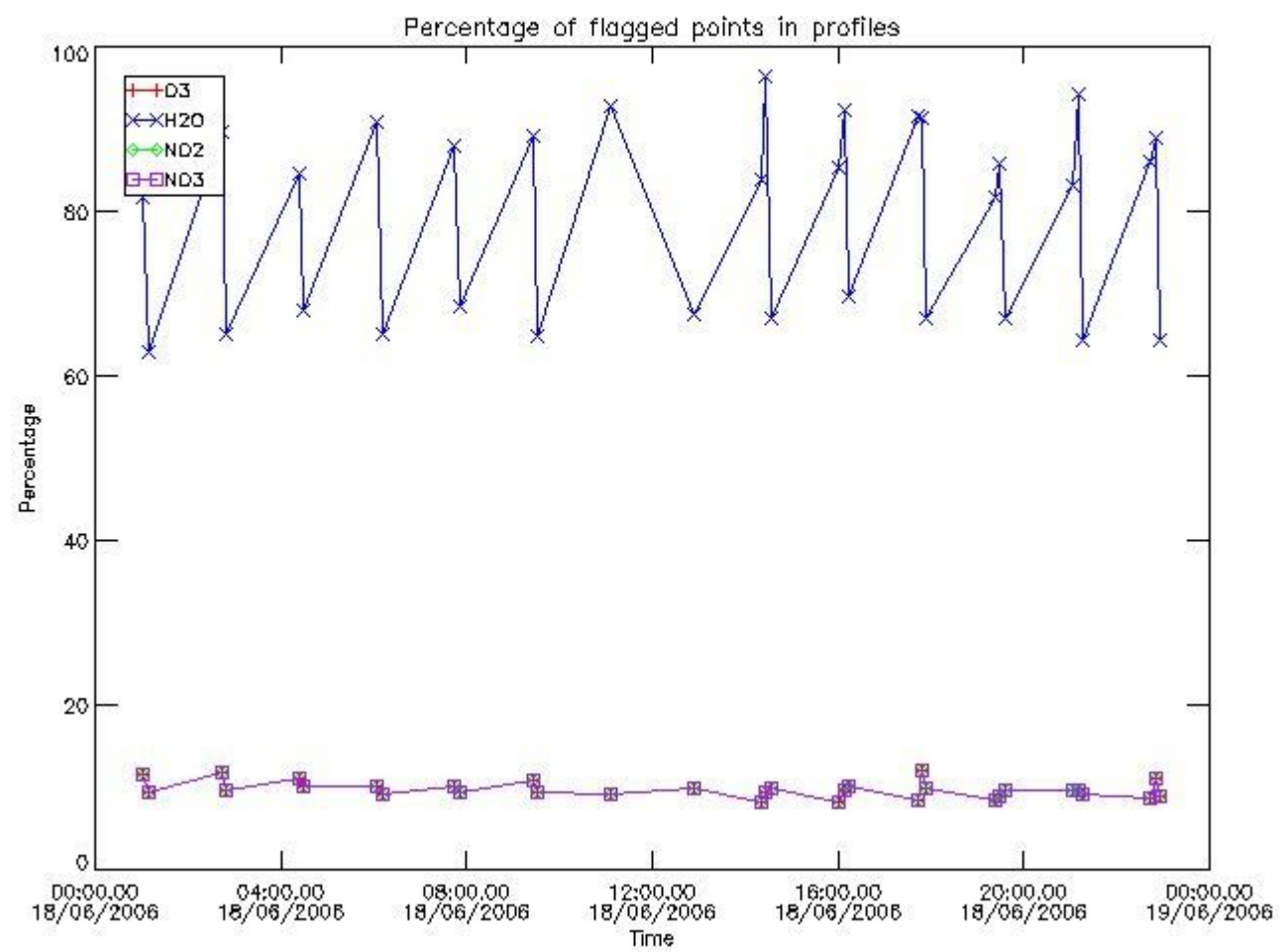
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060618_000054_000000382048_00374_22472_9215.N1	18-JUN-2006 00:00:54	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	22472	No
2	GOM_NL__2PRFIN20060618_000354_000000362048_00374_22472_9216.N1	18-JUN-2006 00:03:54	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	22472	No
3	GOM_NL__2PRFIN20060618_001037_000000402048_00374_22472_9217.N1	18-JUN-2006 00:10:37	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	22472	No
4	GOM_NL__2PRFIN20060618_001218_000000362048_00374_22472_9218.N1	18-JUN-2006 00:12:18	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	22472	No
5	GOM_NL__2PRFIN20060618_002728_000000442048_00374_22472_9219.N1	18-JUN-2006 00:27:28	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	22472	No
6	GOM_NL__2PRFIN20060618_002853_000000442048_00374_22472_9220.N1	18-JUN-2006 00:28:53	Bright	43.500	68	18Alp Cas	2.2250	4500.0	87	22472	No
7	GOM_NL__2PRFIN20060618_003043_000000372048_00374_22472_9221.N1	18-JUN-2006 00:30:43	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	22472	No
8	GOM_NL__2PRFIN20060618_003410_000000422048_00374_22472_9222.N1	18-JUN-2006 00:34:10	Bright	41.500	73	57Gam1And	2.2600	13100.	83	22472	No
9	GOM_NL__2PRFIN20060618_003628_000000432048_00374_22472_9223.N1	18-JUN-2006 00:36:28	Bright	42.500	173	4Bet Tri	3.0040	8900.0	85	22472	No
10	GOM_NL__2PRFIN20060618_004006_000000492048_00374_22472_9224.N1	18-JUN-2006 00:40:06	Twilight	48.500	50	13Alp Ari	2.0070	4250.0	97	22472	No
11	GOM_NL__2PRFIN20060618_010218_000000442048_00374_22472_9225.N1	18-JUN-2006 01:02:18	Dark	44.000	84	Alp Phe	2.3970	4500.0	88	22472	No
12	GOM_NL__2PRFIN20060618_010836_000000552048_00375_22473_9207.N1	18-JUN-2006 01:08:36	Dark	54.500	63	Bet Gru	2.1500	2800.0	109	22473	No
13	GOM_NL__2PRFIN20060618_011039_000000472048_00375_22473_9208.N1	18-JUN-2006 01:10:39	Straylight	47.000	31	Alp Gru	1.7340	15200.	94	22473	No
14	GOM_NL__2PRFIN20060618_011419_000000412048_00375_22473_9209.N1	18-JUN-2006 01:14:19	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	22473	No
15	GOM_NL__2PRFIN20060618_012402_000000422048_00375_22473_9210.N1	18-JUN-2006 01:24:02	Twilight	41.500	25	35Lam Sco	1.6200	28000.	83	22473	No
16	GOM_NL__2PRFIN20060618_012525_000000442048_00375_22473_9211.N1	18-JUN-2006 01:25:25	Twilight	43.500	167	10Gam2Sgr	2.9840	4500.0	87	22473	No
17	GOM_NL__2PRFIN20060618_013032_000000382048_00375_22473_9212.N1	18-JUN-2006 01:30:32	Bright	38.000	86	35Eta Oph	2.4300	10200.	76	22473	No
18	GOM_NL__2PRFIN20060618_013656_000000422048_00375_22473_9213.N1	18-JUN-2006 01:36:56	Bright	42.000	126	60Bet Oph	2.7700	4250.0	84	22473	No
19	GOM_NL__2PRFIN20060618_013925_000000442048_00375_22473_9214.N1	18-JUN-2006 01:39:25	Bright	44.000	59	55Alp Oph	2.0800	8900.0	88	22473	No
20	GOM_NL__2PRFIN20060618_014130_000000352048_00375_22473_9215.N1	18-JUN-2006 01:41:30	Bright	35.000	127	27Bet Her	2.7810	4700.0	70	22473	No
21	GOM_NL__2PRFIN20060618_014430_000000392048_00375_22473_9216.N1	18-JUN-2006 01:44:30	Bright	39.000	133	40Zet Her	2.8070	6000.0	78	22473	No
22	GOM_NL__2PRFIN20060618_015112_000000392048_00375_22473_9217.N1	18-JUN-2006 01:51:12	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	22473	No
23	GOM_NL__2PRFIN20060618_015253_000000362048_00375_22473_9218.N1	18-JUN-2006 01:52:53	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	22473	No
24	GOM_NL__2PRFIN20060618_020804_000000422048_00375_22473_9219.N1	18-JUN-2006 02:08:04	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	22473	No
25	GOM_NL__2PRFIN20060618_020929_000000442048_00375_22473_9220.N1	18-JUN-2006 02:09:29	Bright	43.500	68	18Alp Cas	2.2250	4500.0	87	22473	No
26	GOM_NL__2PRFIN20060618_021119_000000342048_00375_22473_9221.N1	18-JUN-2006 02:11:19	Bright	34.000	160	23Gam Per	2.9300	4700.0	68	22473	No
27	GOM_NL__2PRFIN20060618_021446_000000572048_00375_22473_9222.N1	18-JUN-2006 02:14:46	Bright	57.000	73	57Gam1And	2.2600	13100.	114	22473	No
28	GOM_NL__2PRFIN20060618_021704_000000432048_00375_22473_9223.N1	18-JUN-2006 02:17:04	Bright	43.000	173	4Bet Tri	3.0040	8900.0	86	22473	No
29	GOM_NL__2PRFIN20060618_022043_000000502048_00375_22473_9224.N1	18-JUN-2006 02:20:43	Twilight	50.000	50	13Alp Ari	2.0070	4250.0	100	22473	No
30	GOM_NL__2PRFIN20060618_024255_000000442048_00375_22473_9225.N1	18-JUN-2006 02:42:55	Dark	43.500	84	Alp Phe	2.3970	4500.0	87	22473	No
31	GOM_NL__2PRFIN20060618_024913_000000542048_00376_22474_9207.N1	18-JUN-2006 02:49:13	Dark	53.500	63	Bet Gru	2.1500	2800.0	107	22474	No
32	GOM_NL__2PRFIN20060618_025116_000000482048_00376_22474_9208.N1	18-JUN-2006 02:51:16	Straylight	47.500	31	Alp Gru	1.7340	15200.	95	22474	No
33	GOM_NL__2PRFIN20060618_025455_000000412048_00376_22474_9209.N1	18-JUN-2006 02:54:55	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	22474	No
34	GOM_NL__2PRFIN20060618_030438_000000422048_00376_22474_9210.N1	18-JUN-2006 03:04:38	Twilight	42.000	25	35Lam Sco	1.6200	28000.	84	22474	No
35	GOM_NL__2PRFIN20060618_030556_000000492048_00376_22474_9211.N1	18-JUN-2006 03:05:56	Twilight	49.000	116	19Del Sgr	2.7000	4100.0	98	22474	No
36	GOM_NL__2PRFIN20060618_031109_000000402048_00376_22474_9212.N1	18-JUN-2006 03:11:09	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	22474	No
37	GOM_NL__2PRFIN20060618_031732_000000422048_00376_22474_9213.N1	18-JUN-2006 03:17:32	Bright	42.000	126	60Bet Oph	2.7700	4250.0	84	22474	No
38	GOM_NL__2PRFIN20060618_032001_000000432048_00376_22474_9214.N1	18-JUN-2006 03:20:01	Bright	42.500	59	55Alp Oph	2.0800	8900.0	85	22474	No
39	GOM_NL__2PRFIN20060618_032206_000000382048_00376_22474_9215.N1	18-JUN-2006 03:22:06	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	22474	No
40	GOM_NL__2PRFIN20060618_032505_000000352048_00376_22474_9216.N1	18-JUN-2006 03:25:05	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	22474	No
41	GOM_NL__2PRFIN20060618_033148_000000382048_00376_22474_9217.N1	18-JUN-2006 03:31:48	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	22474	No
42	GOM_NL__2PRFIN20060618_033329_000000362048_00376_22474_9218.N1	18-JUN-2006 03:33:29	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	22474	No

220	GOM_NL__2PRFIN20060618_214634_000000422048_00387_22485_9234.N1	18-JUN-2006 21:46:34	Bright	42.000	59	55Alp Oph	2.0800	8900.0	84	22485	No
221	GOM_NL__2PRFIN20060618_215139_000000382048_00387_22485_9235.N1	18-JUN-2006 21:51:39	Bright	37.500	133	40Zet Her	2.8070	6000.0	75	22485	No
222	GOM_NL__2PRFIN20060618_215819_000000402048_00387_22485_9236.N1	18-JUN-2006 21:58:19	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	22485	No
223	GOM_NL__2PRFIN20060618_220831_000000472048_00387_22485_9237.N1	18-JUN-2006 22:08:31	Bright	46.500	89	5Alp Cep	2.4510	8000.0	93	22485	No
224	GOM_NL__2PRFIN20060618_221511_000000452048_00387_22485_9238.N1	18-JUN-2006 22:15:11	Bright	45.000	74	11Bet Cas	2.2680	6600.0	90	22485	No
225	GOM_NL__2PRFIN20060618_221637_000000452048_00387_22485_9239.N1	18-JUN-2006 22:16:37	Bright	44.500	68	18Alp Cas	2.2250	4500.0	89	22485	No
226	GOM_NL__2PRFIN20060618_222157_000000432048_00387_22485_9240.N1	18-JUN-2006 22:21:57	Bright	43.000	73	57Gam1And	2.2600	13100.	86	22485	No
227	GOM_NL__2PRFIN20060618_222416_000000442048_00387_22485_9241.N1	18-JUN-2006 22:24:16	Bright	43.500	173	4Bet Tri	3.0040	8900.0	87	22485	No
228	GOM_NL__2PRFIN20060618_222757_000000502048_00387_22485_9242.N1	18-JUN-2006 22:27:57	Twilight	50.000	50	13Alp Ari	2.0070	4250.0	100	22485	No
229	GOM_NL__2PRFIN20060618_224415_000000582048_00387_22485_9243.N1	18-JUN-2006 22:44:15	Dark	58.000	52	16Bet Cet	2.0370	4500.0	116	22485	No
230	GOM_NL__2PRFIN20060618_225016_000000462048_00387_22485_9244.N1	18-JUN-2006 22:50:16	Dark	46.000	84	Alp Phe	2.3970	4500.0	92	22485	No
231	GOM_NL__2PRFIN20060618_225636_000000572048_00388_22486_9227.N1	18-JUN-2006 22:56:36	Dark	56.500	63	Bet Gru	2.1500	2800.0	113	22486	No
232	GOM_NL__2PRFIN20060618_225839_000000482048_00388_22486_9228.N1	18-JUN-2006 22:58:39	Straylight	48.000	31	Alp Gru	1.7340	15200.	96	22486	No
233	GOM_NL__2PRFIN20060618_230213_000000432048_00388_22486_9229.N1	18-JUN-2006 23:02:13	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	22486	No
234	GOM_NL__2PRFIN20060618_231143_000000482048_00388_22486_9230.N1	18-JUN-2006 23:11:43	Twilight	48.000	38	20Eps Sgr	1.8360	11000.	96	22486	No
235	GOM_NL__2PRFIN20060618_231311_000000512048_00388_22486_9231.N1	18-JUN-2006 23:13:11	Twilight	50.500	116	19Del Sgr	2.7000	4100.0	101	22486	No
236	GOM_NL__2PRFIN20060618_231429_000000472048_00388_22486_9232.N1	18-JUN-2006 23:14:29	Bright	47.000	137	22Lam Sgr	2.8240	4400.0	94	22486	No
237	GOM_NL__2PRFIN20060618_232441_000000422048_00388_22486_9233.N1	18-JUN-2006 23:24:41	Bright	41.500	126	60Bet Oph	2.7700	4250.0	83	22486	No
238	GOM_NL__2PRFIN20060618_232709_000000412048_00388_22486_9234.N1	18-JUN-2006 23:27:09	Bright	41.000	59	55Alp Oph	2.0800	8900.0	82	22486	No
239	GOM_NL__2PRFIN20060618_233215_000000362048_00388_22486_9235.N1	18-JUN-2006 23:32:15	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	22486	No
240	GOM_NL__2PRFIN20060618_233855_000000402048_00388_22486_9236.N1	18-JUN-2006 23:38:55	Bright	39.500	130	23Bet Dra	2.7990	5800.0	79	22486	No
241	GOM_NL__2PRFIN20060618_234906_000000442048_00388_22486_9237.N1	18-JUN-2006 23:49:06	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	22486	No
242	GOM_NL__2PRFIN20060618_235546_000000432048_00388_22486_9238.N1	18-JUN-2006 23:55:46	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	22486	No
243	GOM_NL__2PRFIN20060618_235712_000000422048_00388_22486_9239.N1	18-JUN-2006 23:57:12	Bright	42.000	68	18Alp Cas	2.2250	4500.0	84	22486	No

3. Quality information per product

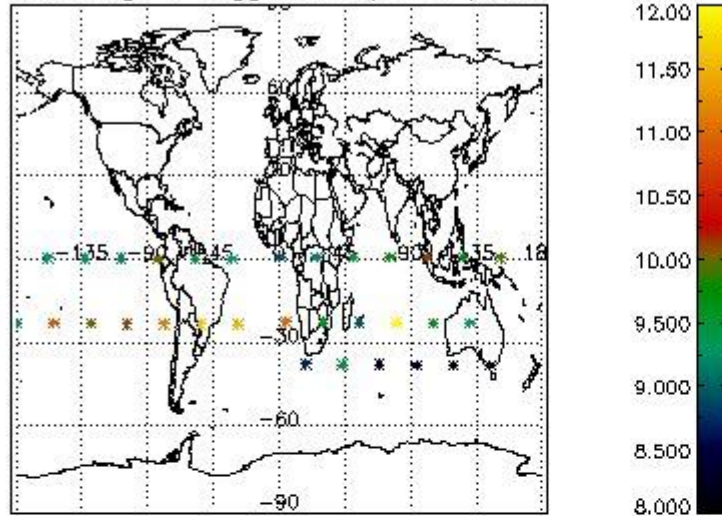
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

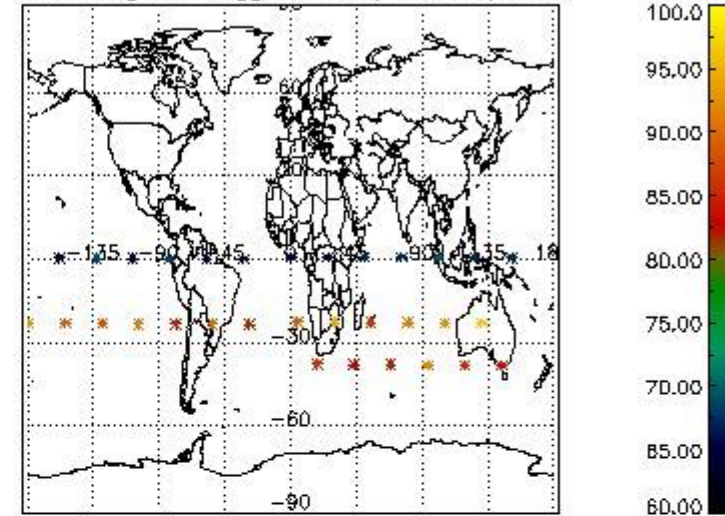


3.2 Plot quality information per product (world map)

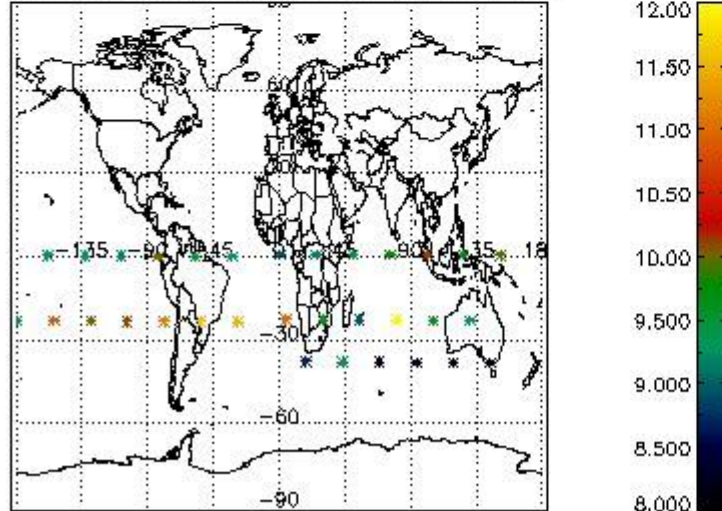
Percentage of flagged data per O3 profile



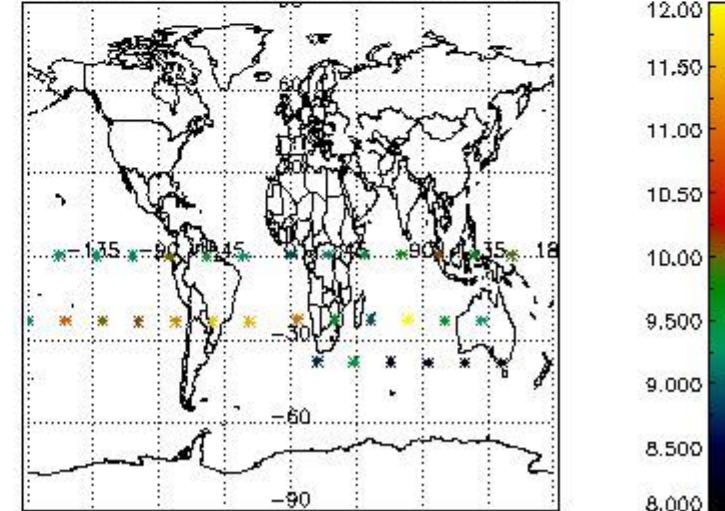
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

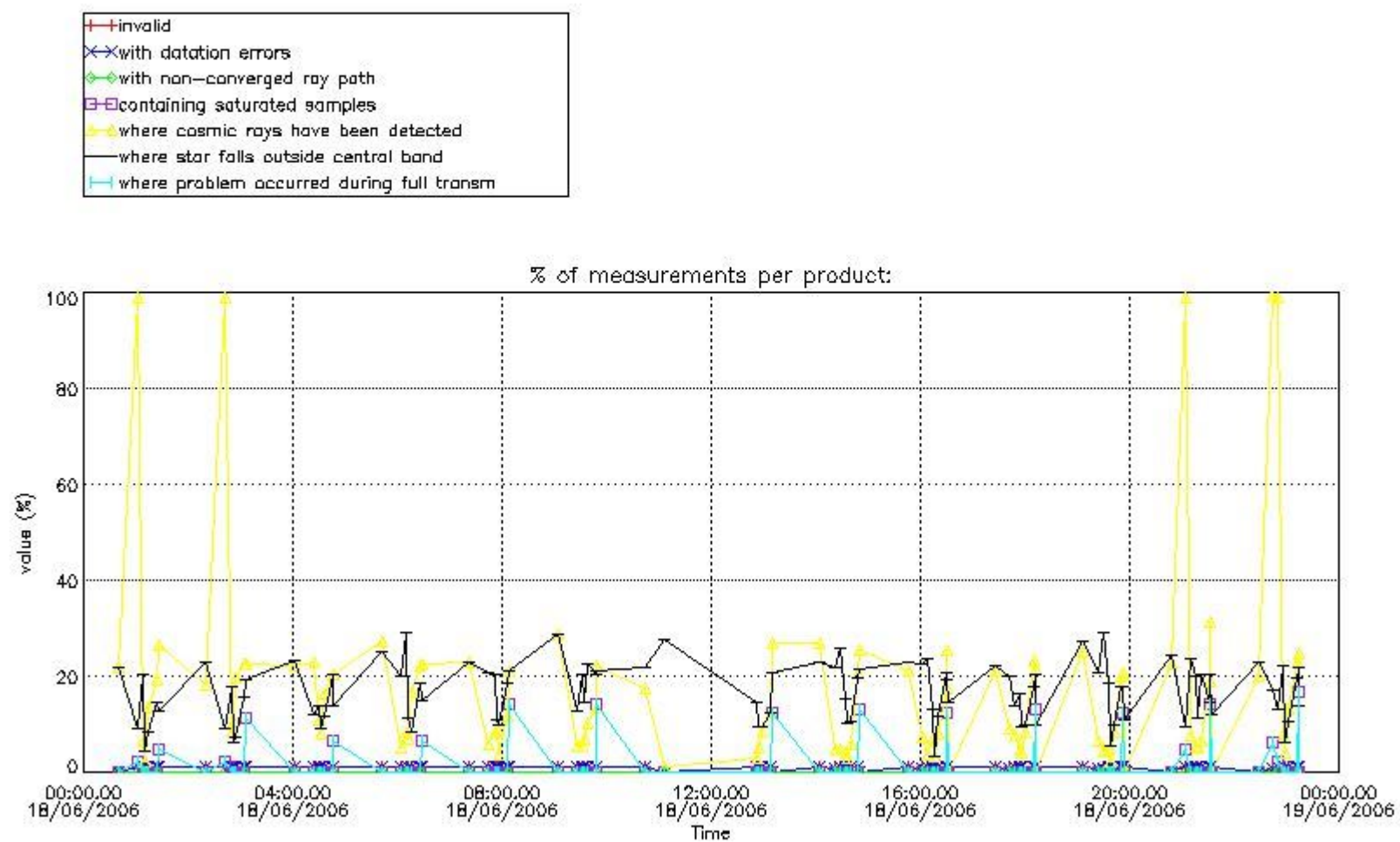


4. Level 1 quality information per product

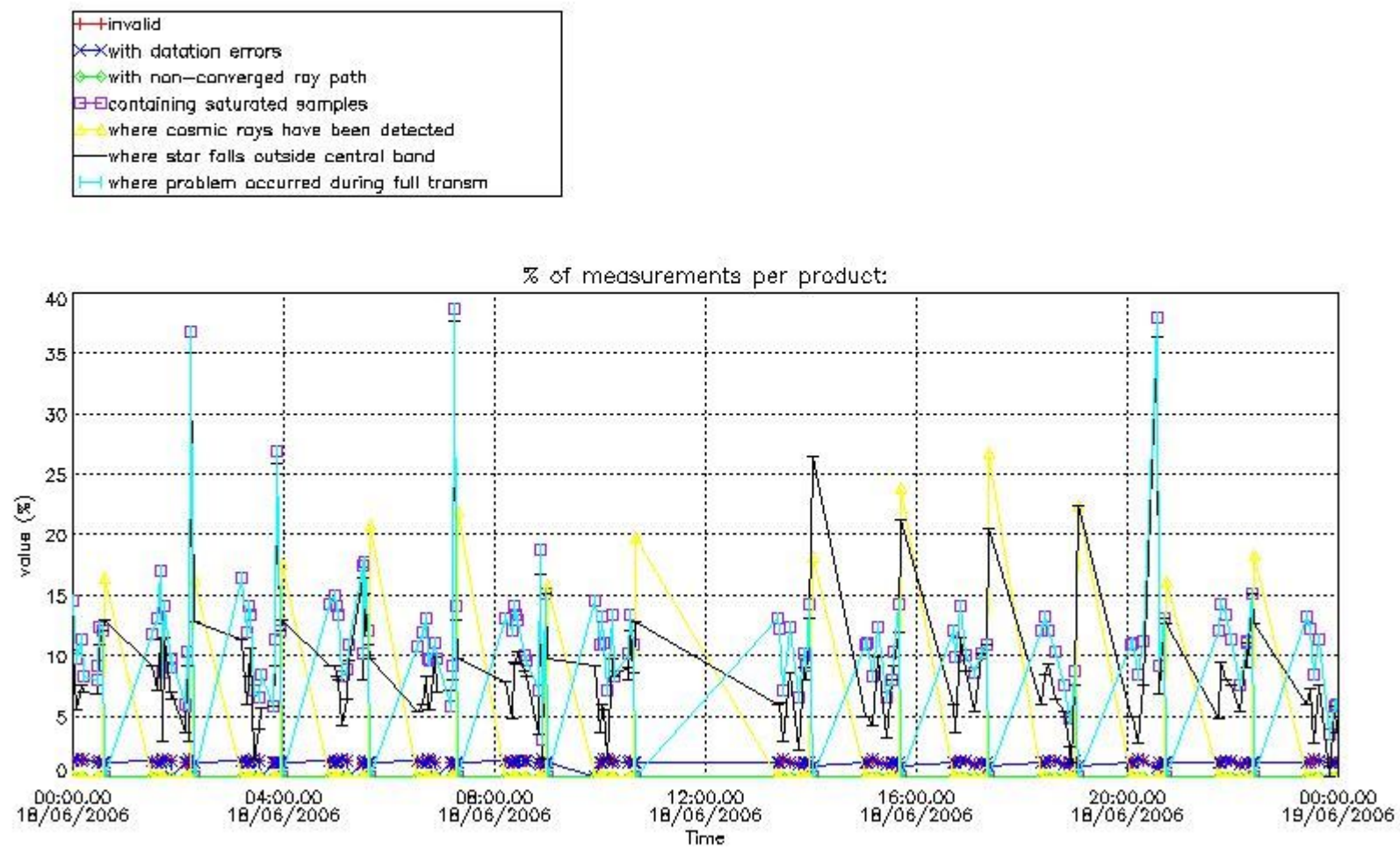
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



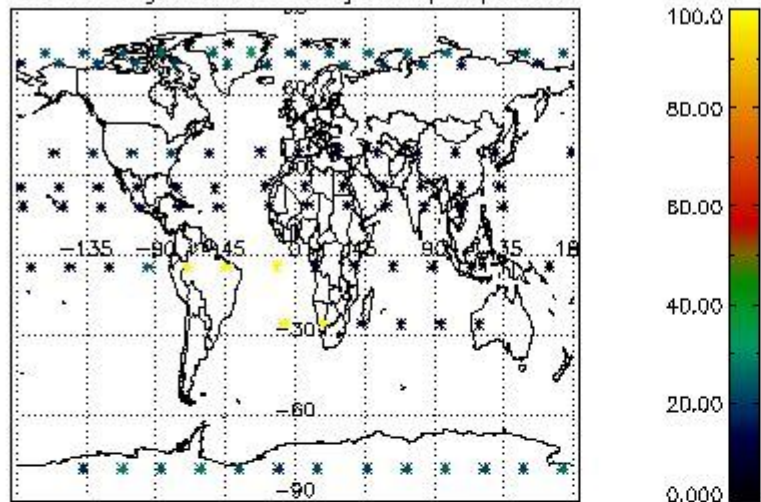
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



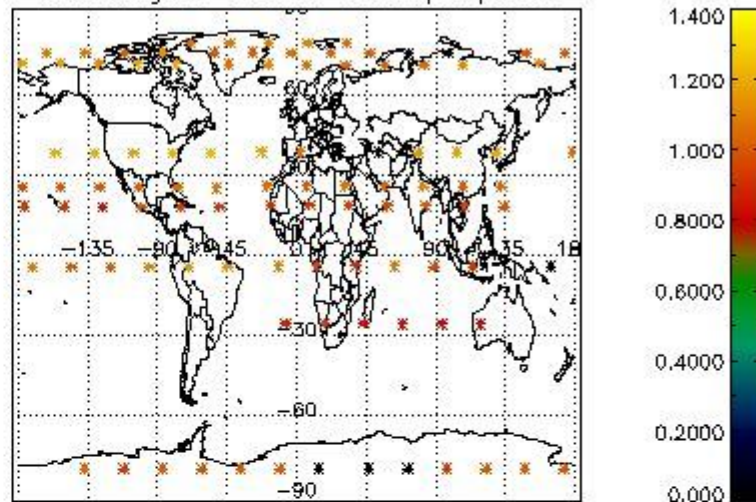
4.2 Plot quality information per product coming from level 1b processing (world map)

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

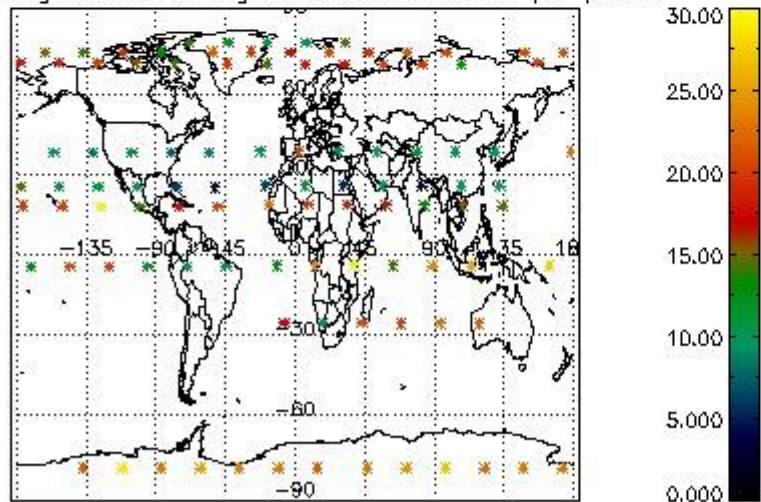
Percentage of cosmic ray hits per profile



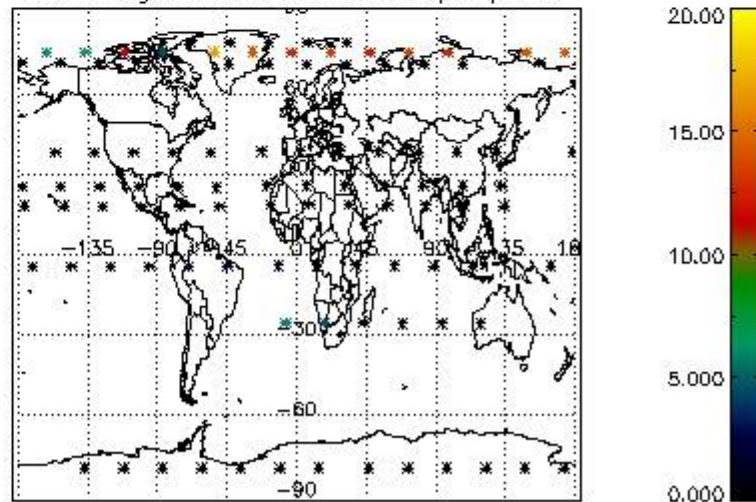
Percentage of datation errors per profile



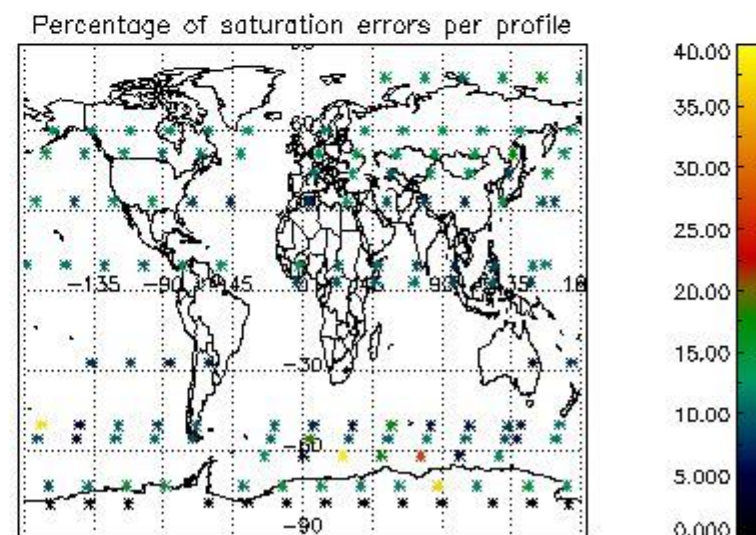
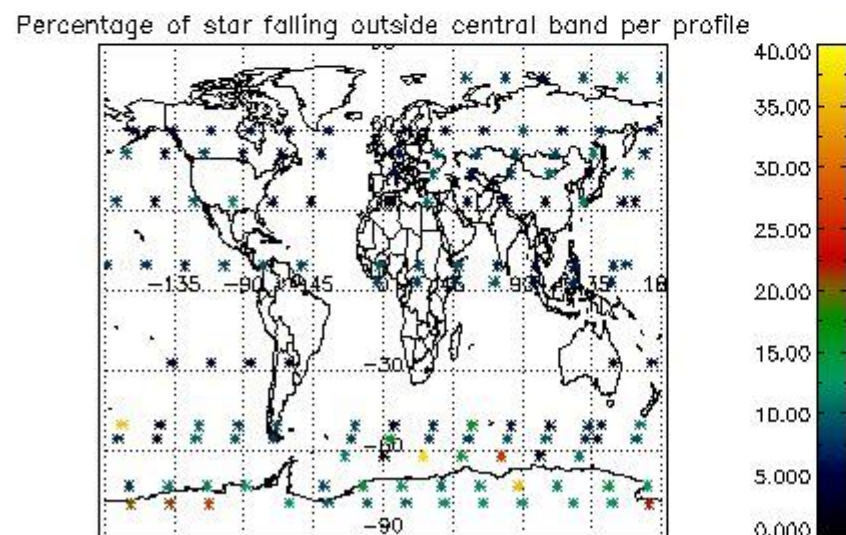
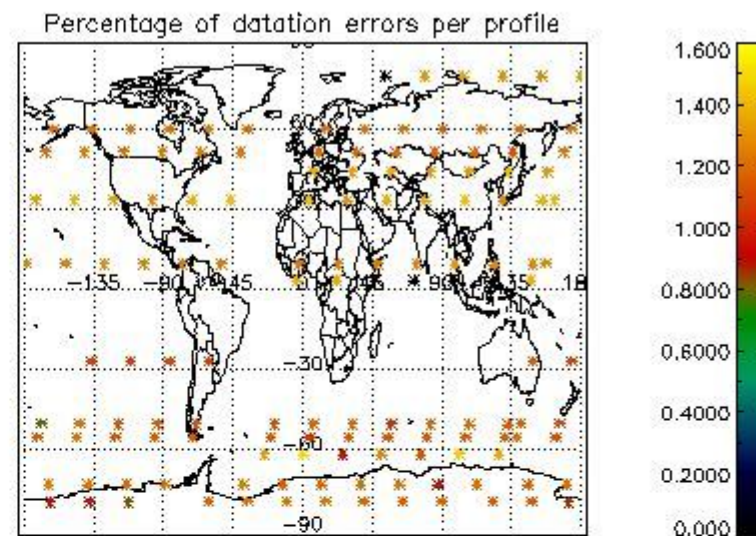
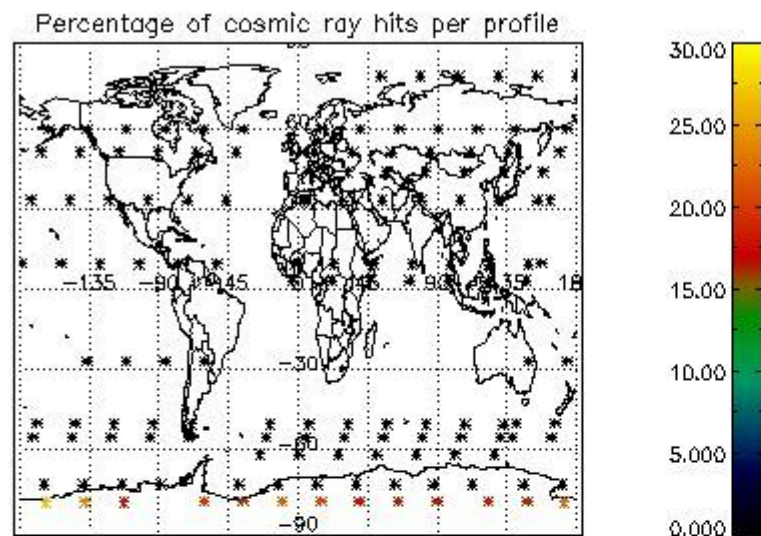
Percentage of star falling outside central band per profile



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

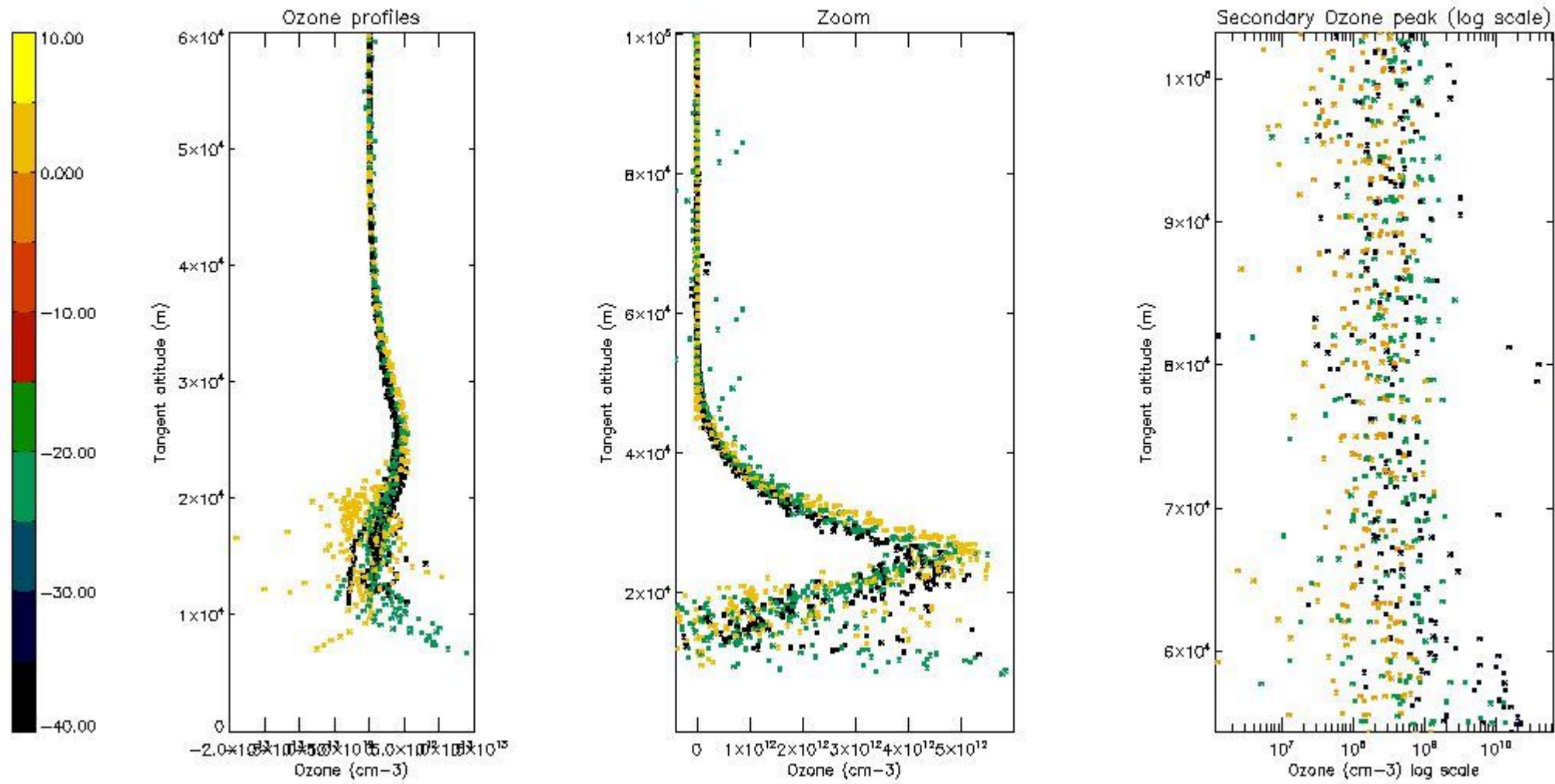
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	16
STD < 20	5

STD < 10	3
STD < 5	0

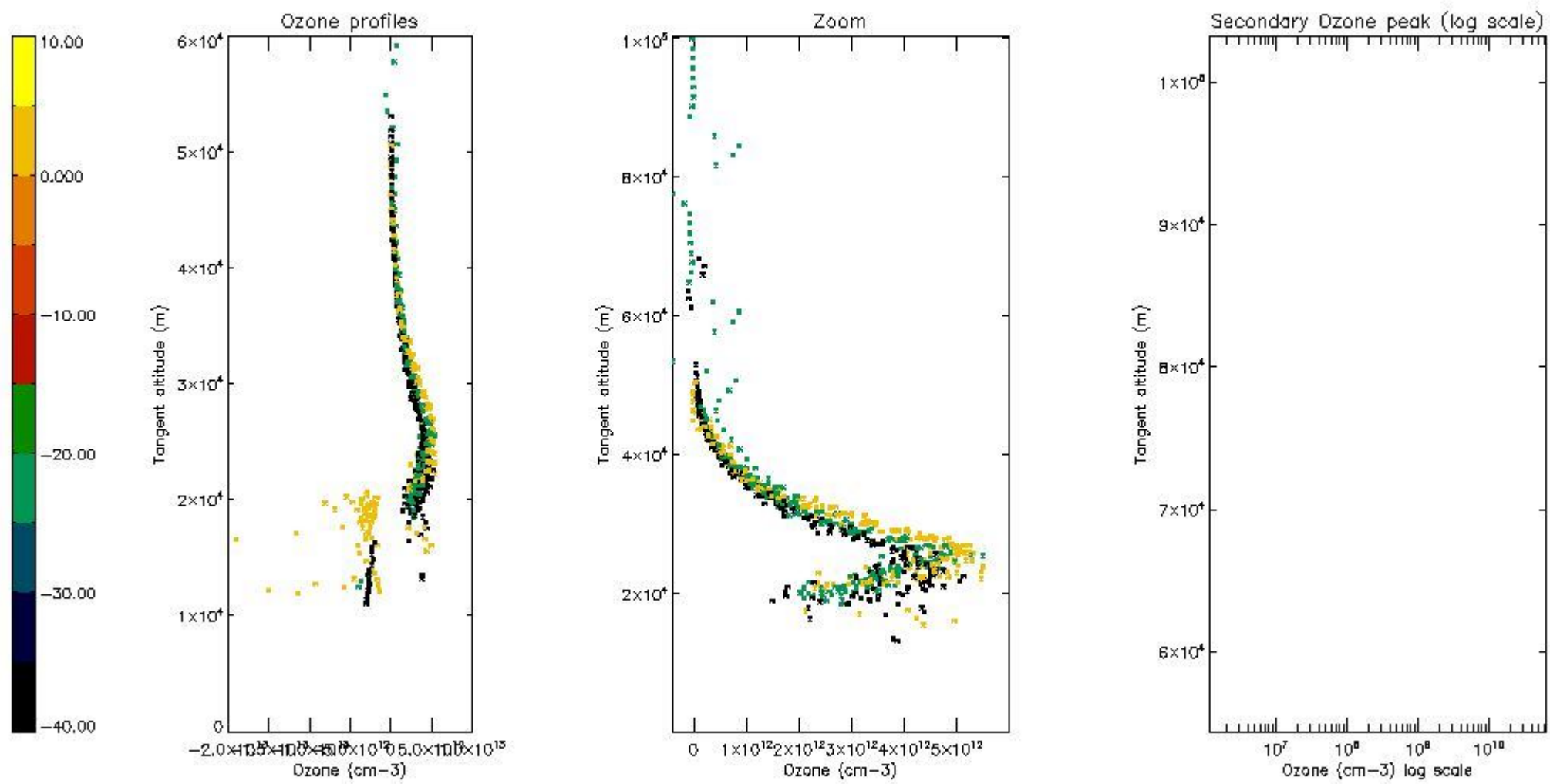
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



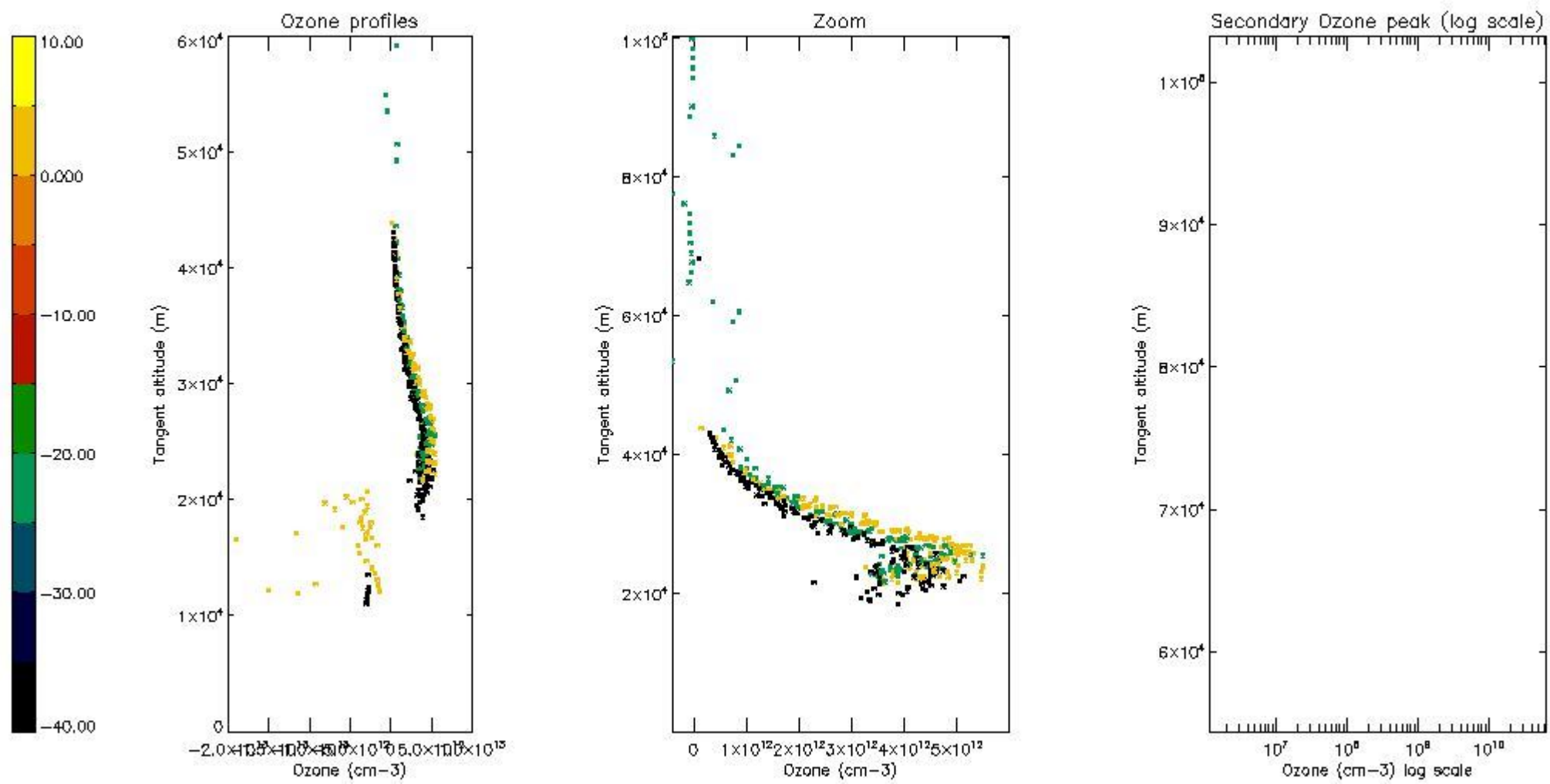
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



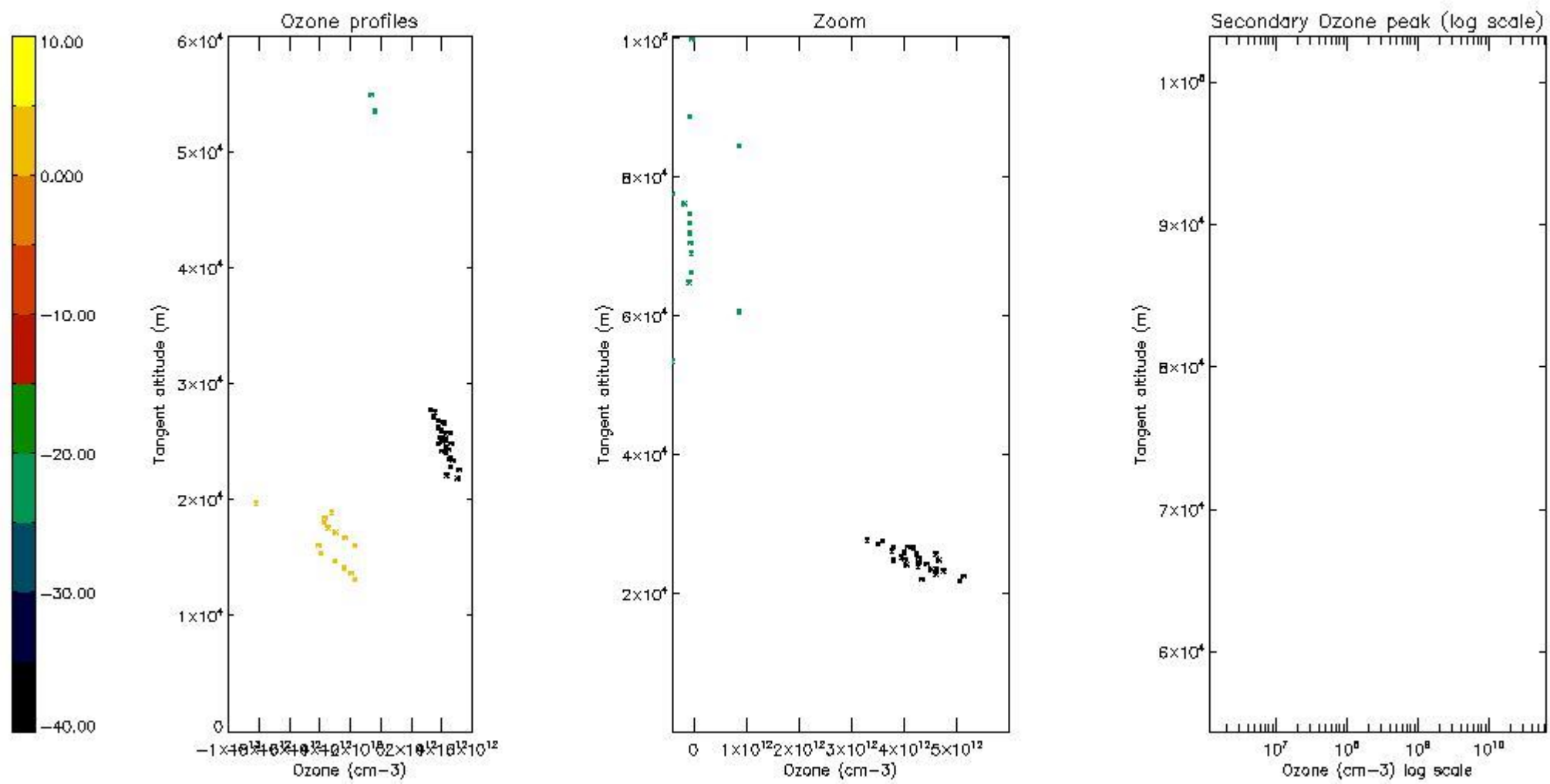
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



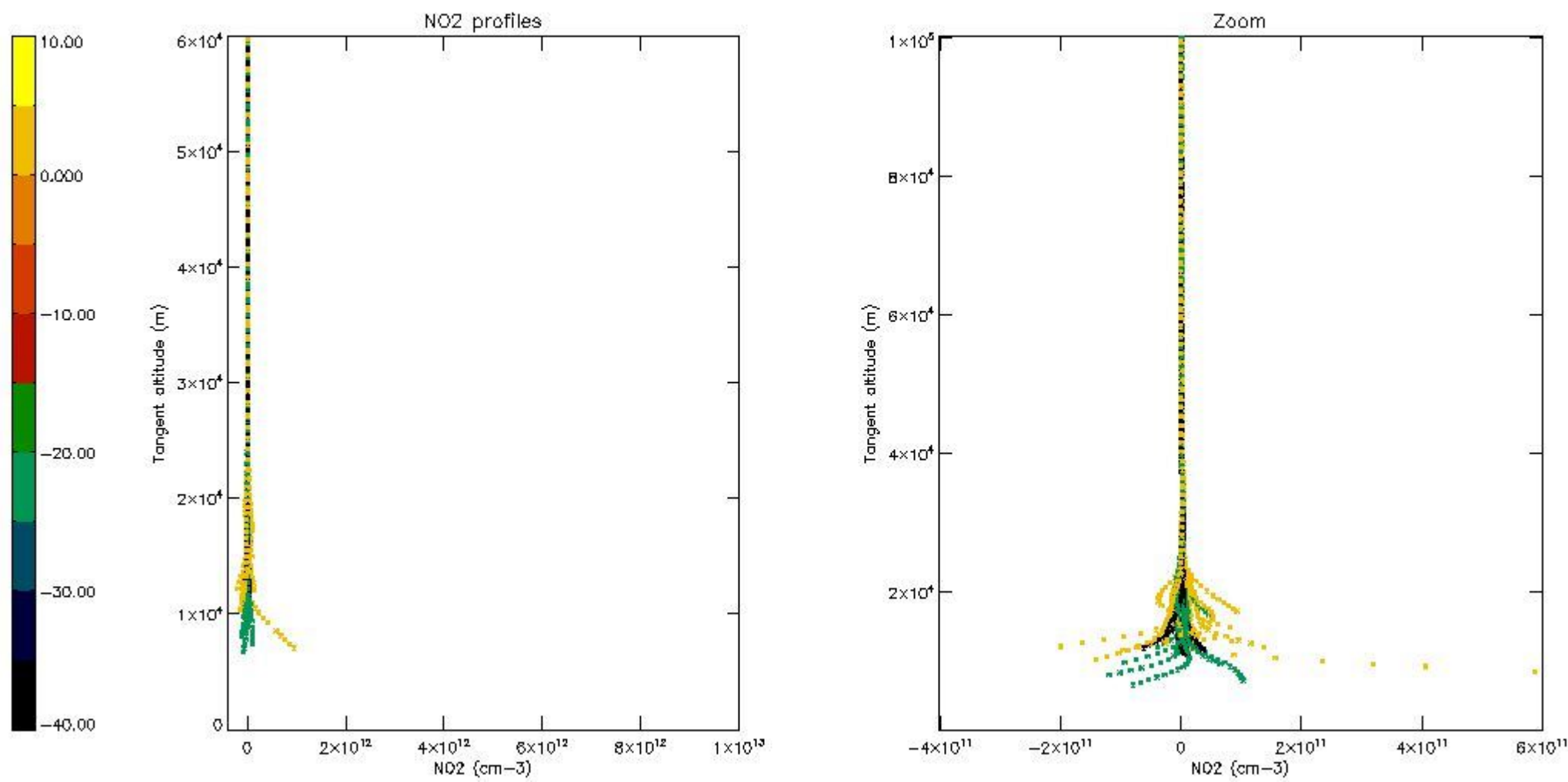
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



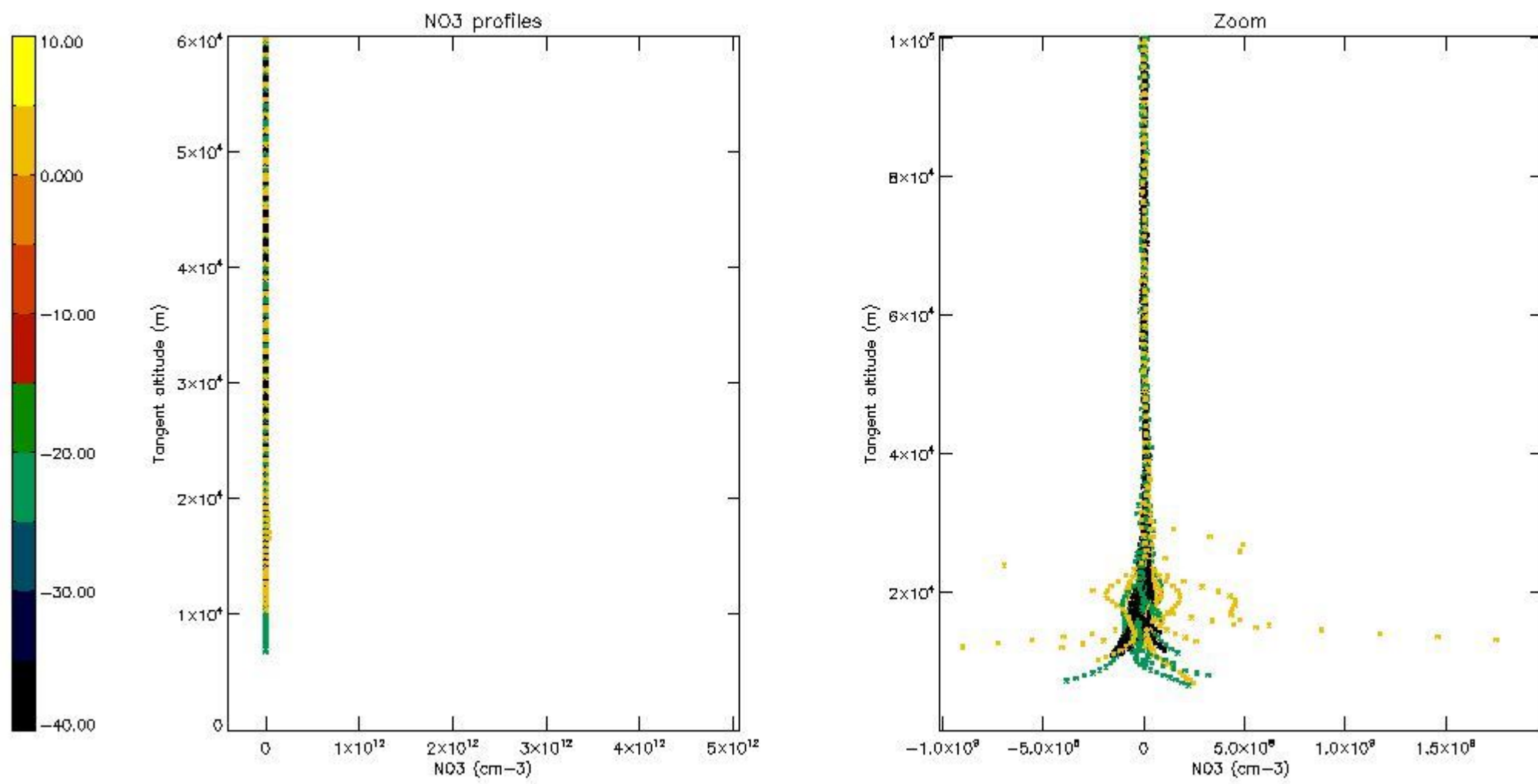
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



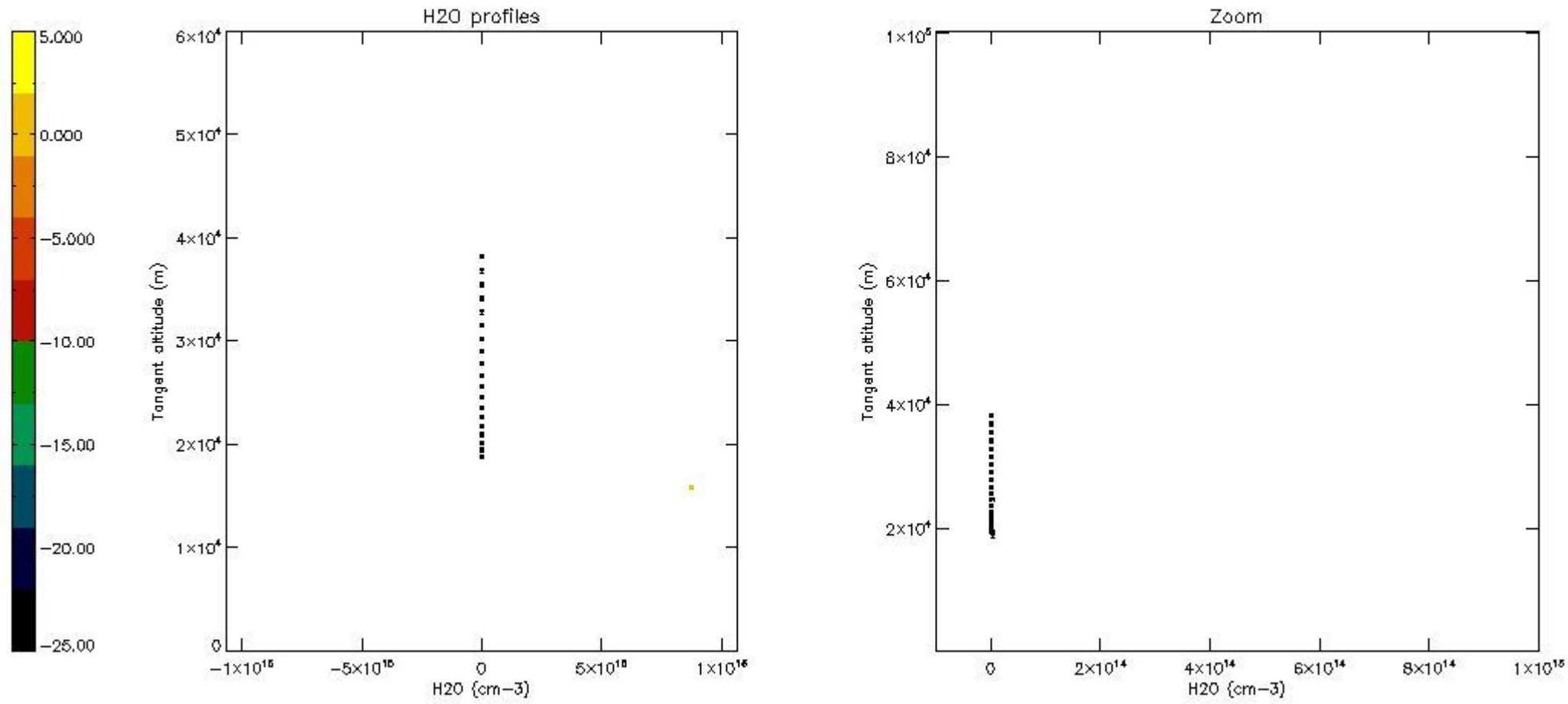
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

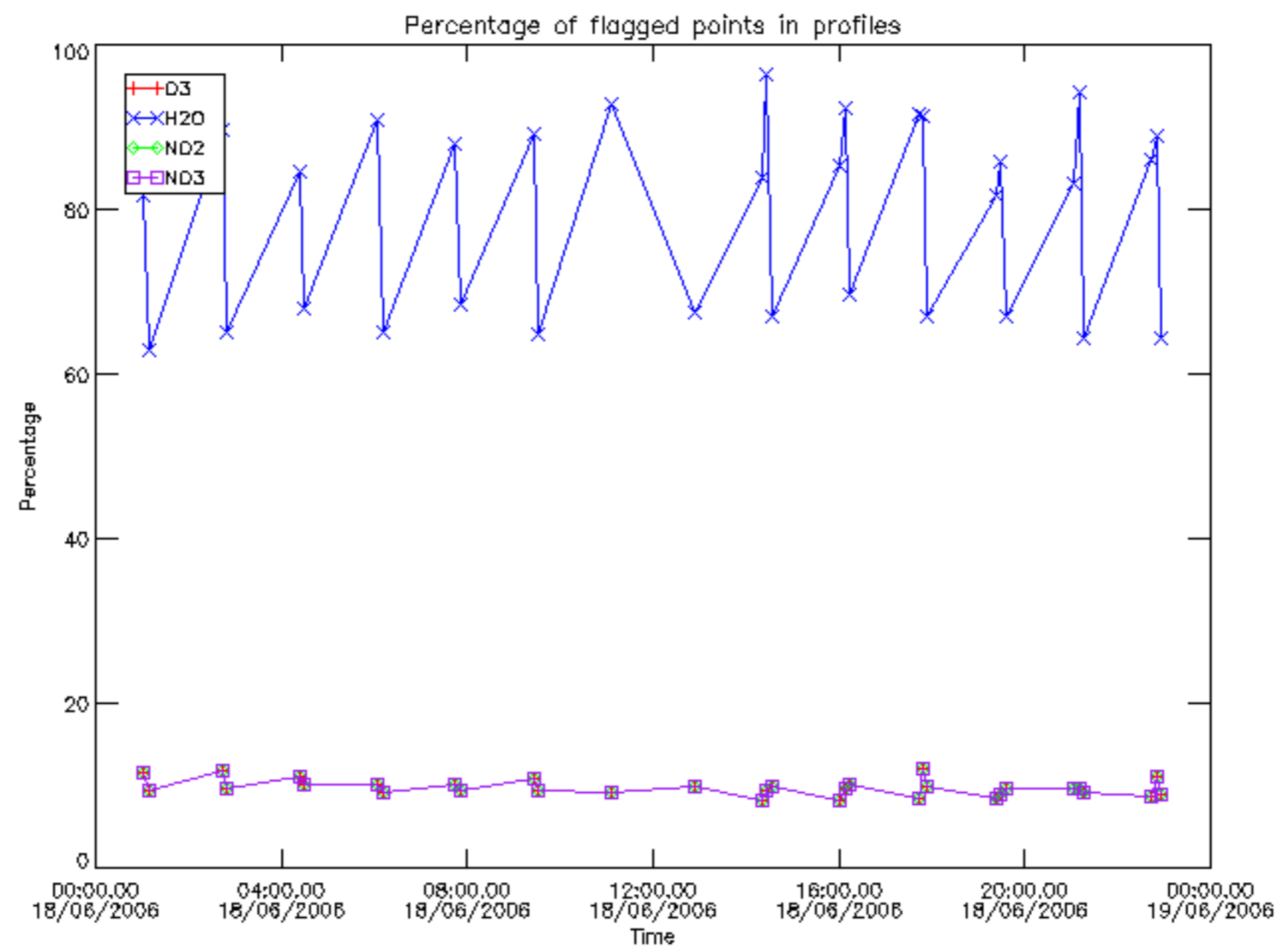
The colorbar represents the latitude.



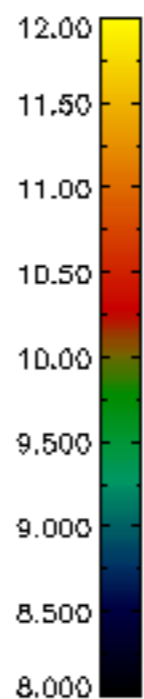
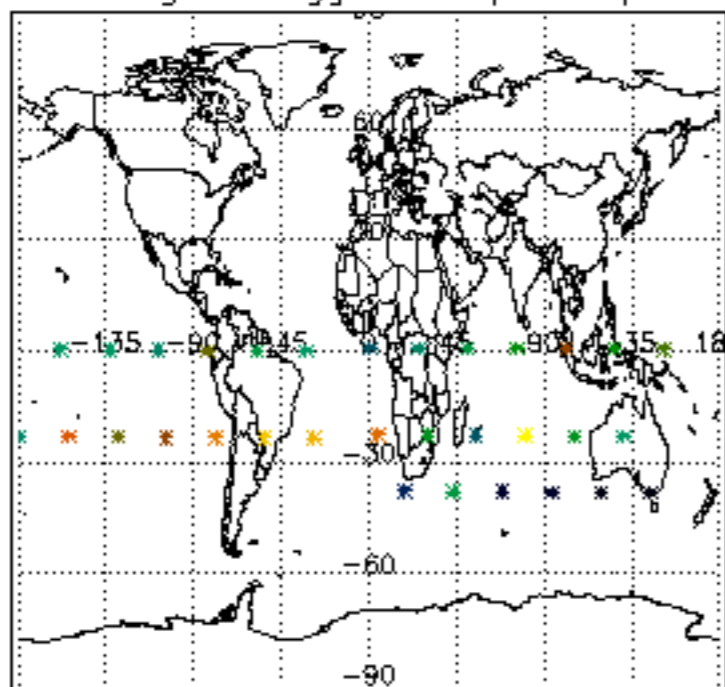
6. Auxiliary Data Files used for the production reported in section 2

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.

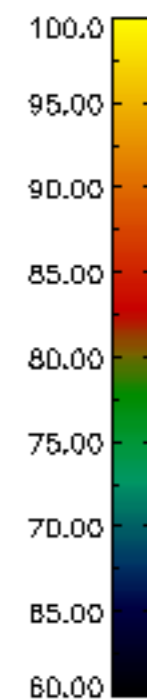
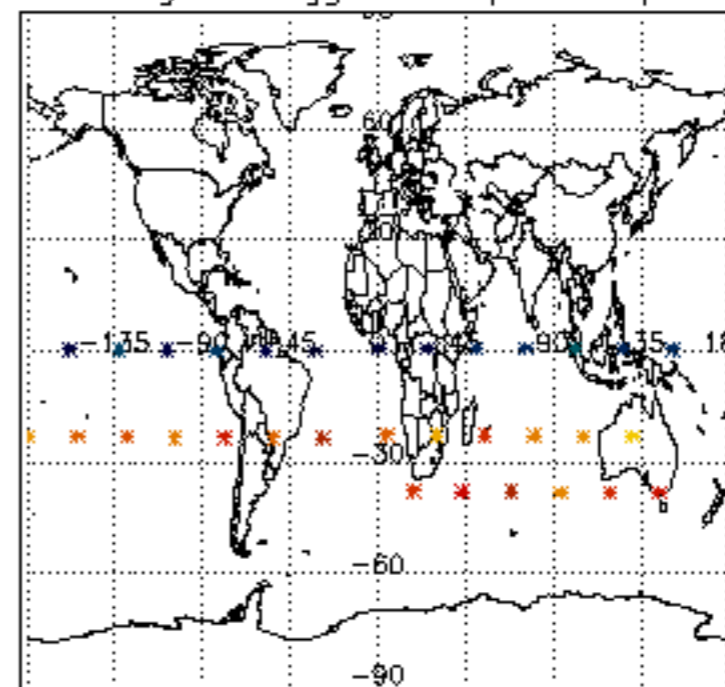
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	18-JUN-2006 00:00:54
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	18-JUN-2006 00:00:54
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	18-JUN-2006 00:00:54



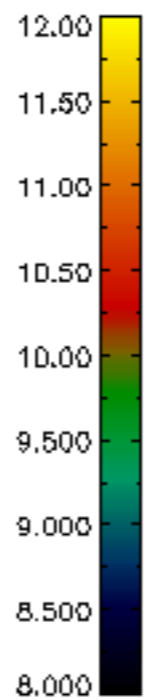
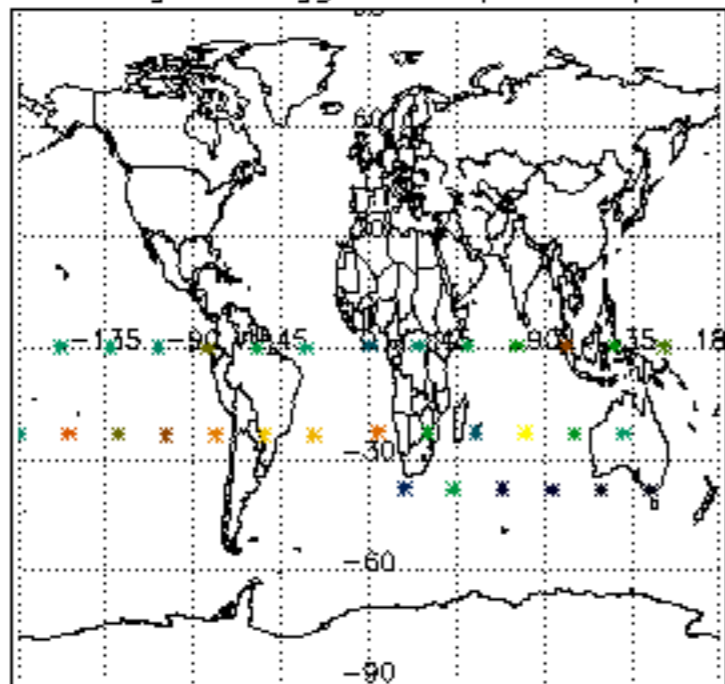
Percentage of flagged data per D3 profile



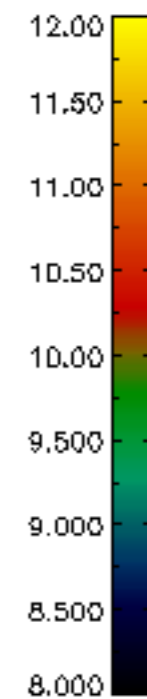
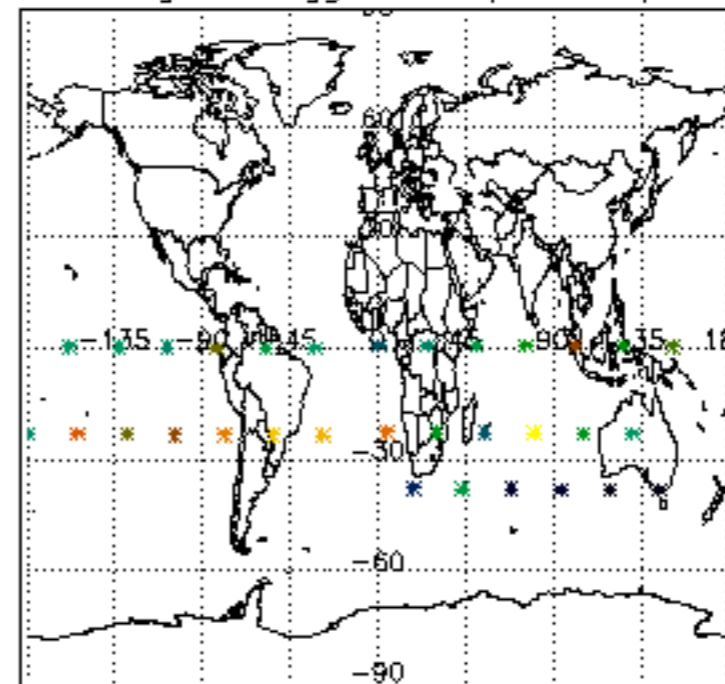
Percentage of flagged data per H2O profile

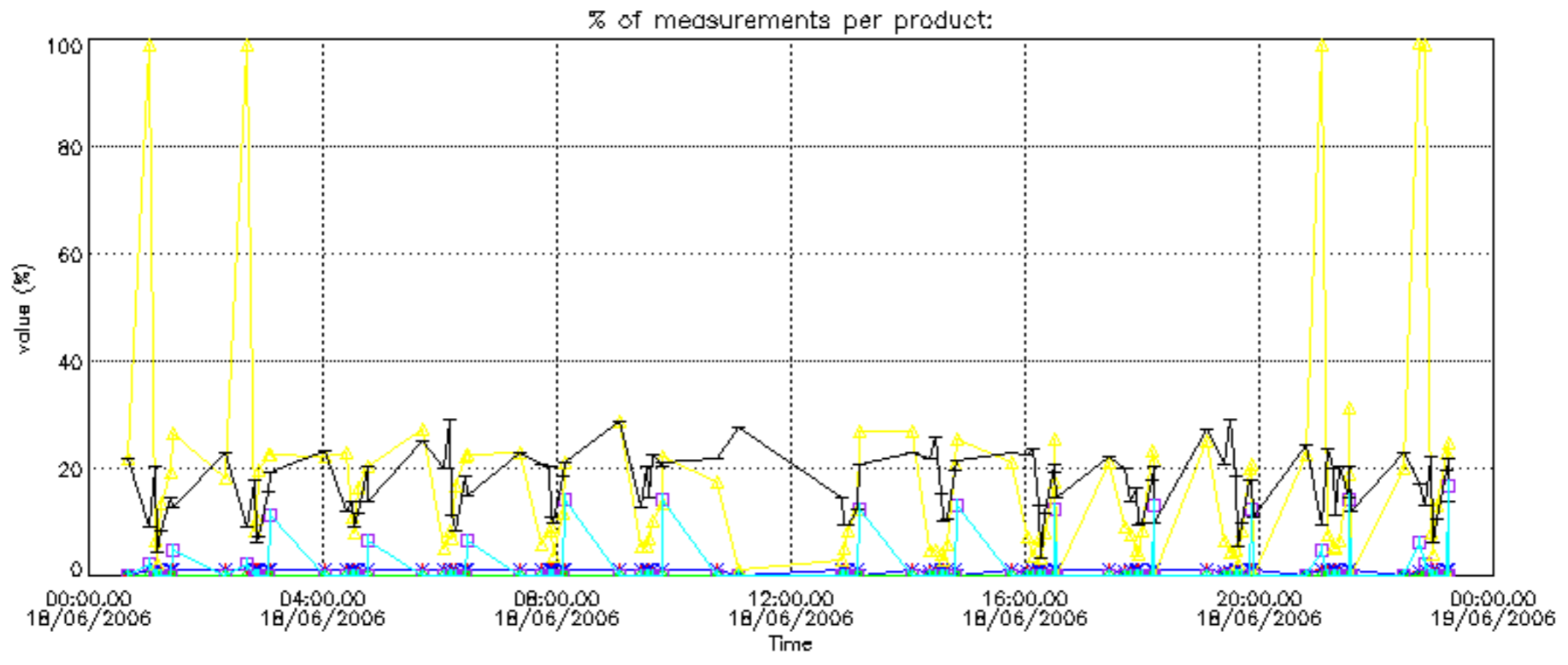


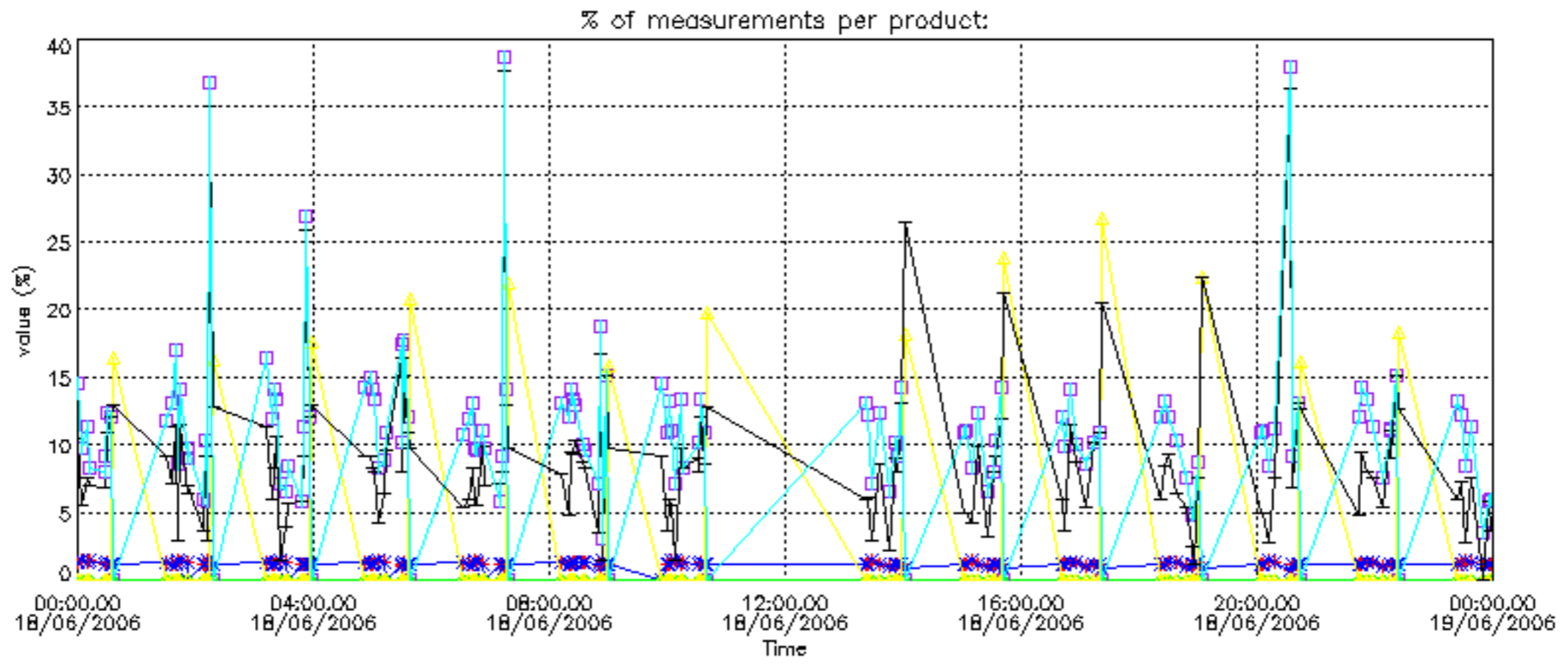
Percentage of flagged data per NO2 profile



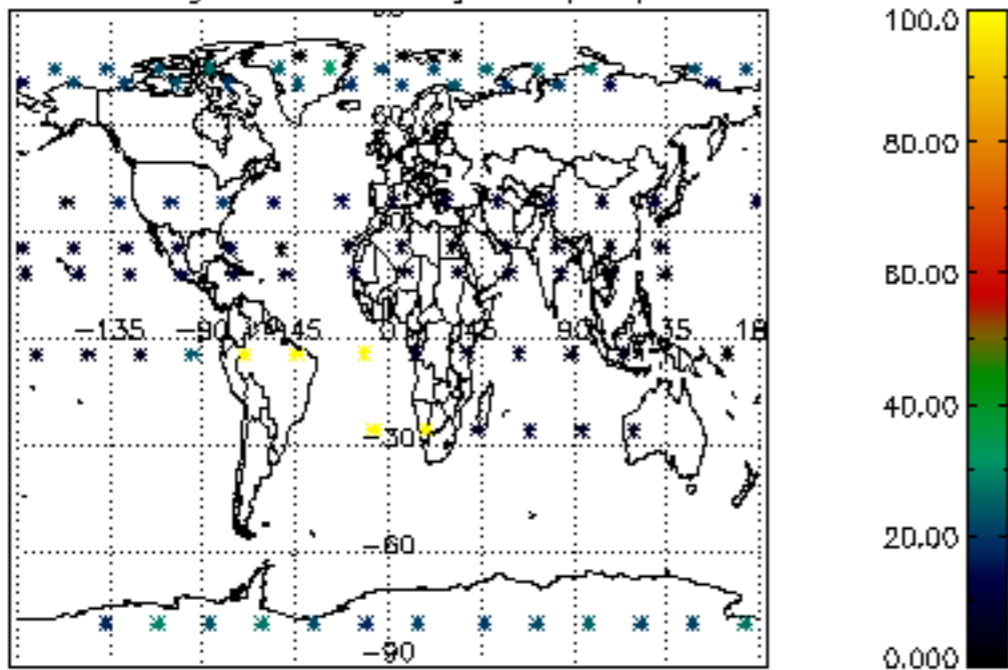
Percentage of flagged data per NO3 profile



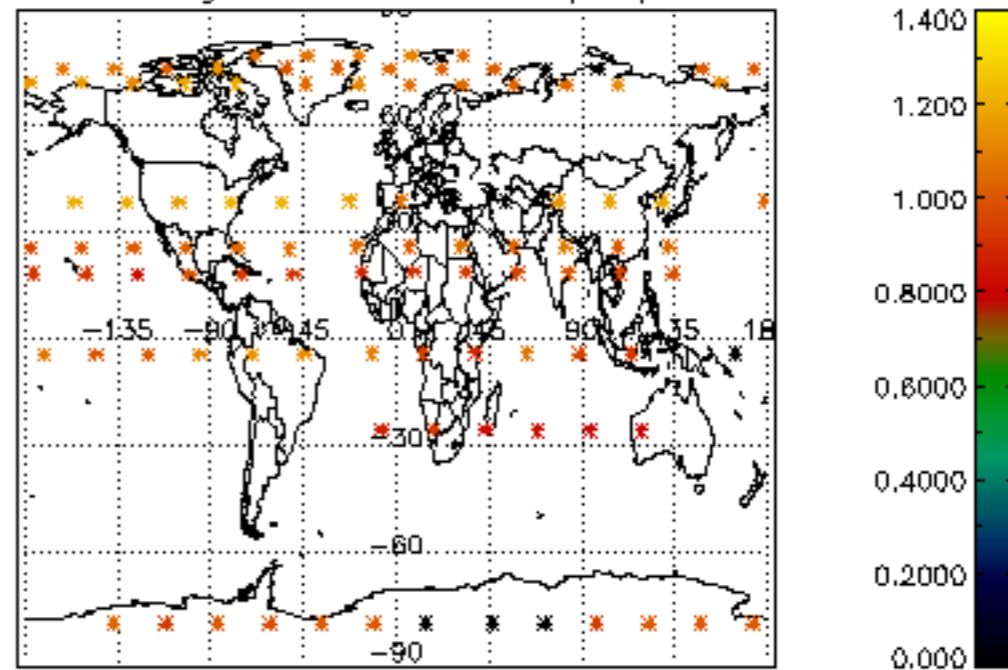




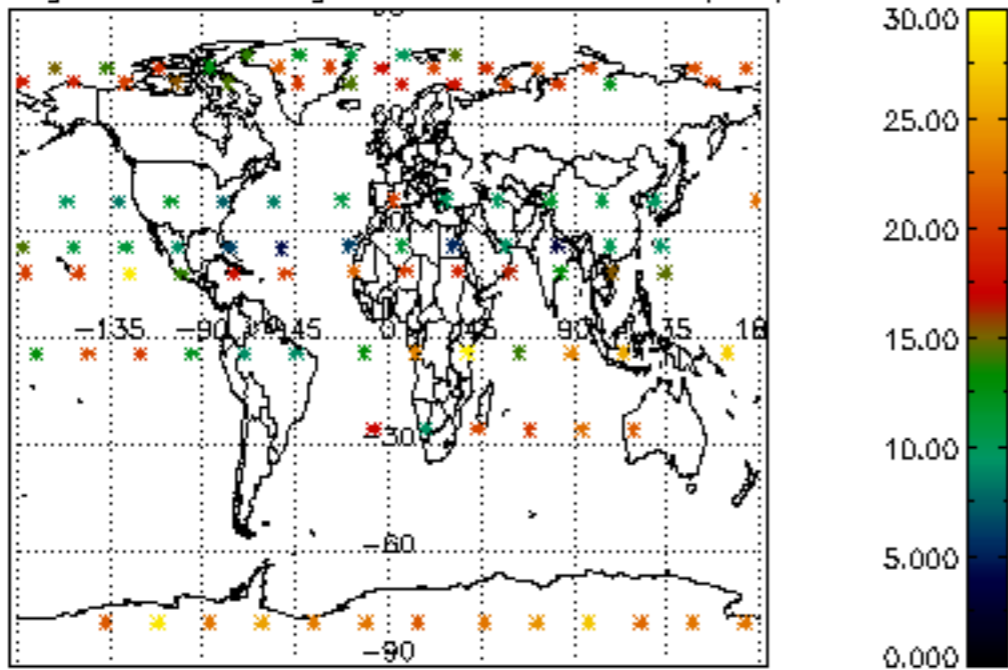
Percentage of cosmic ray hits per profile



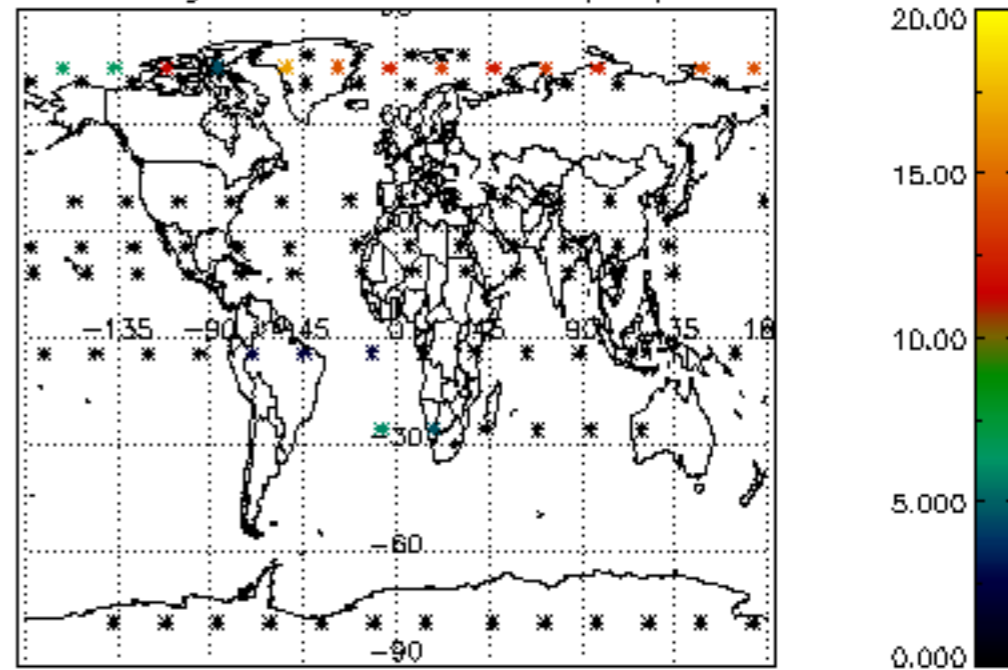
Percentage of datation errors per profile



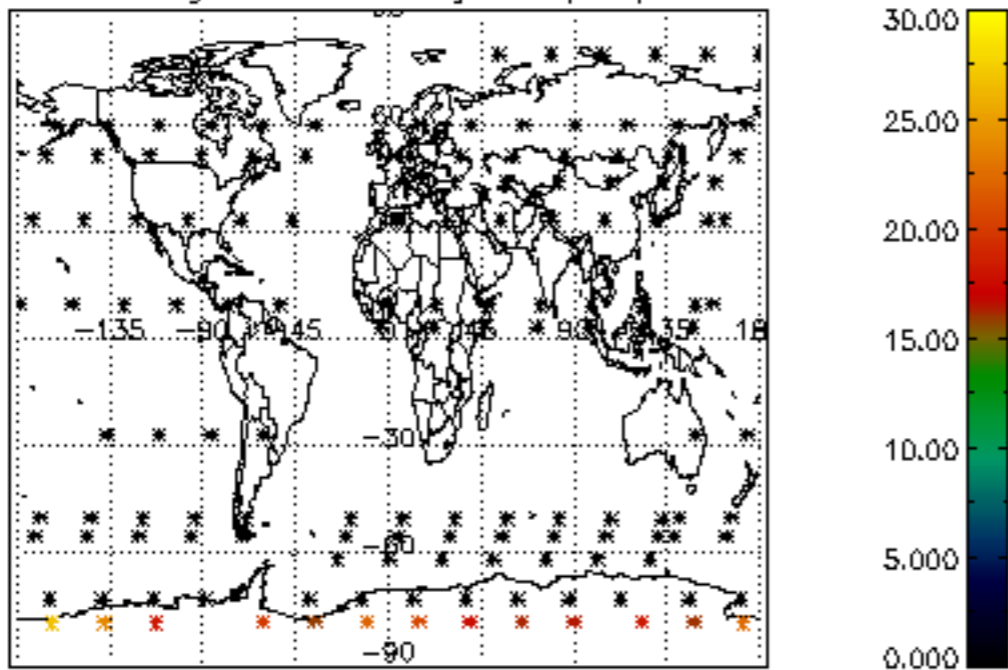
Percentage of star falling outside central band per profile



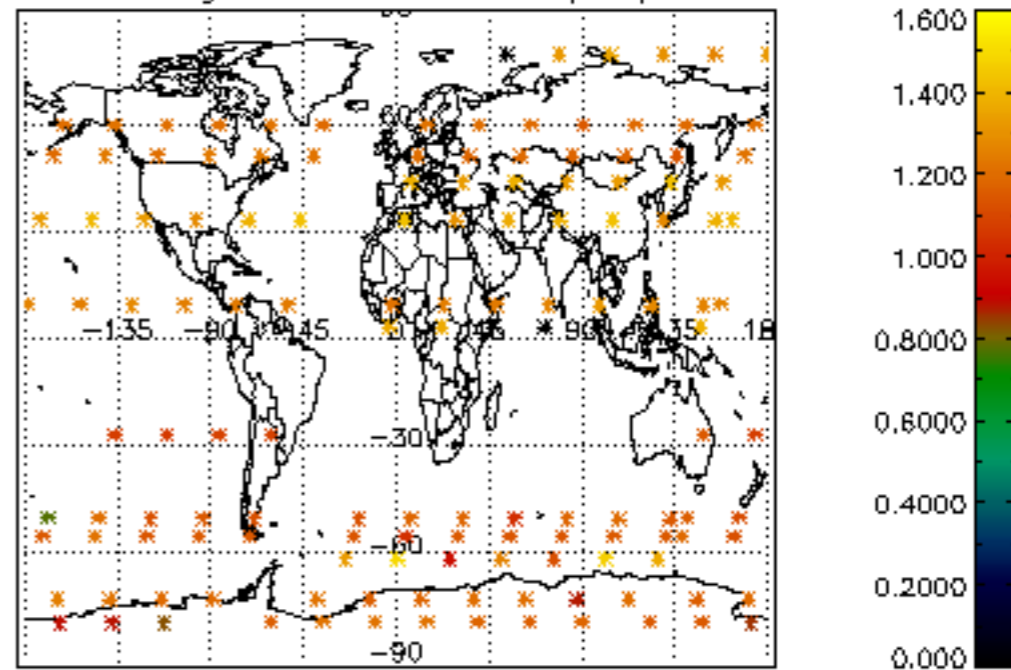
Percentage of saturation errors per profile



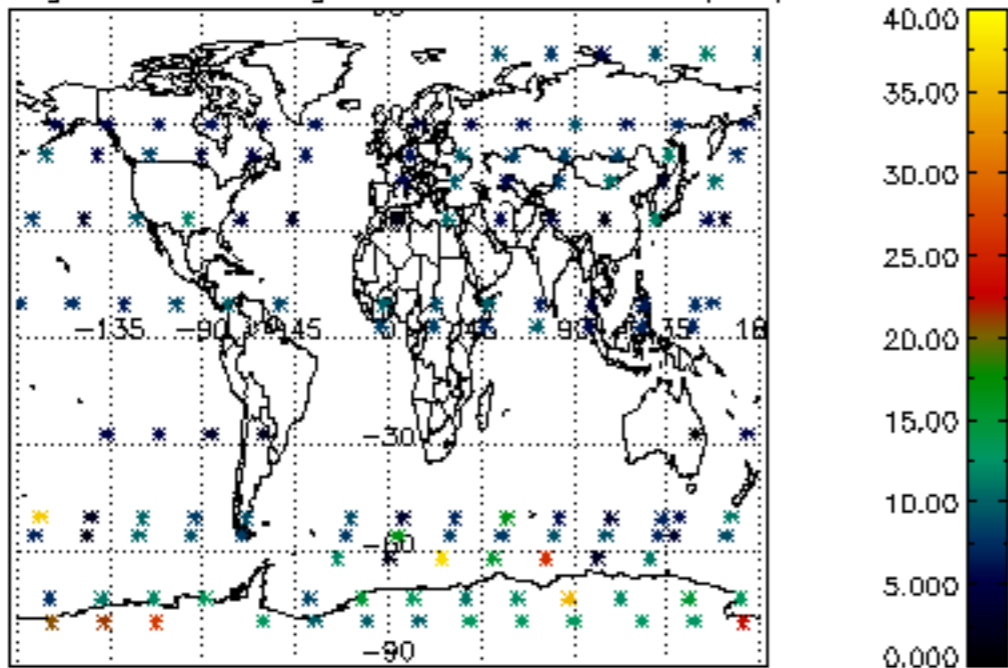
Percentage of cosmic ray hits per profile



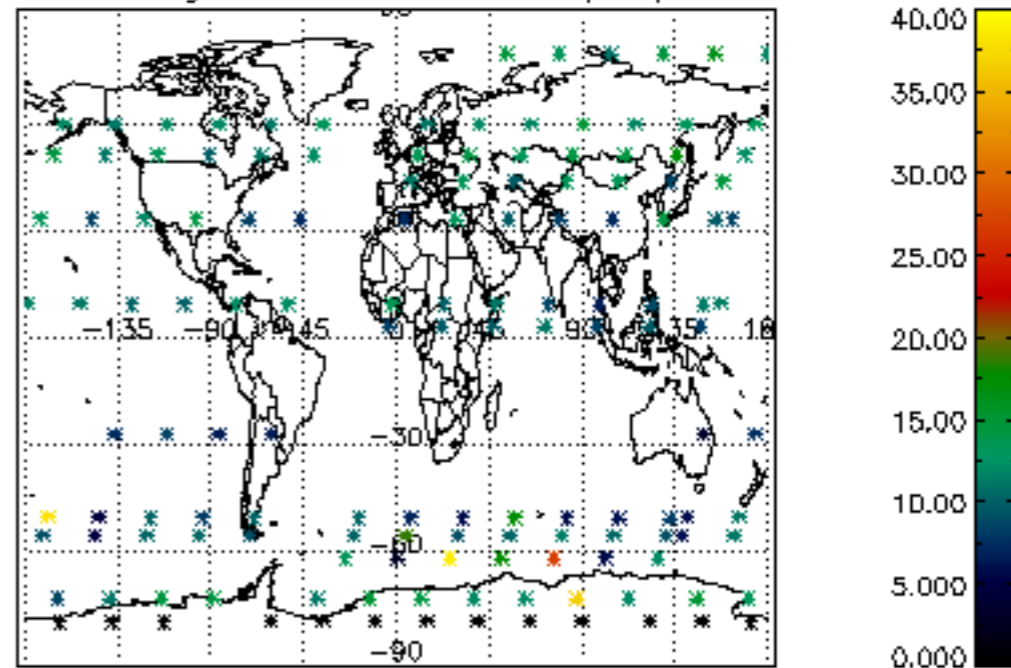
Percentage of datation errors per profile

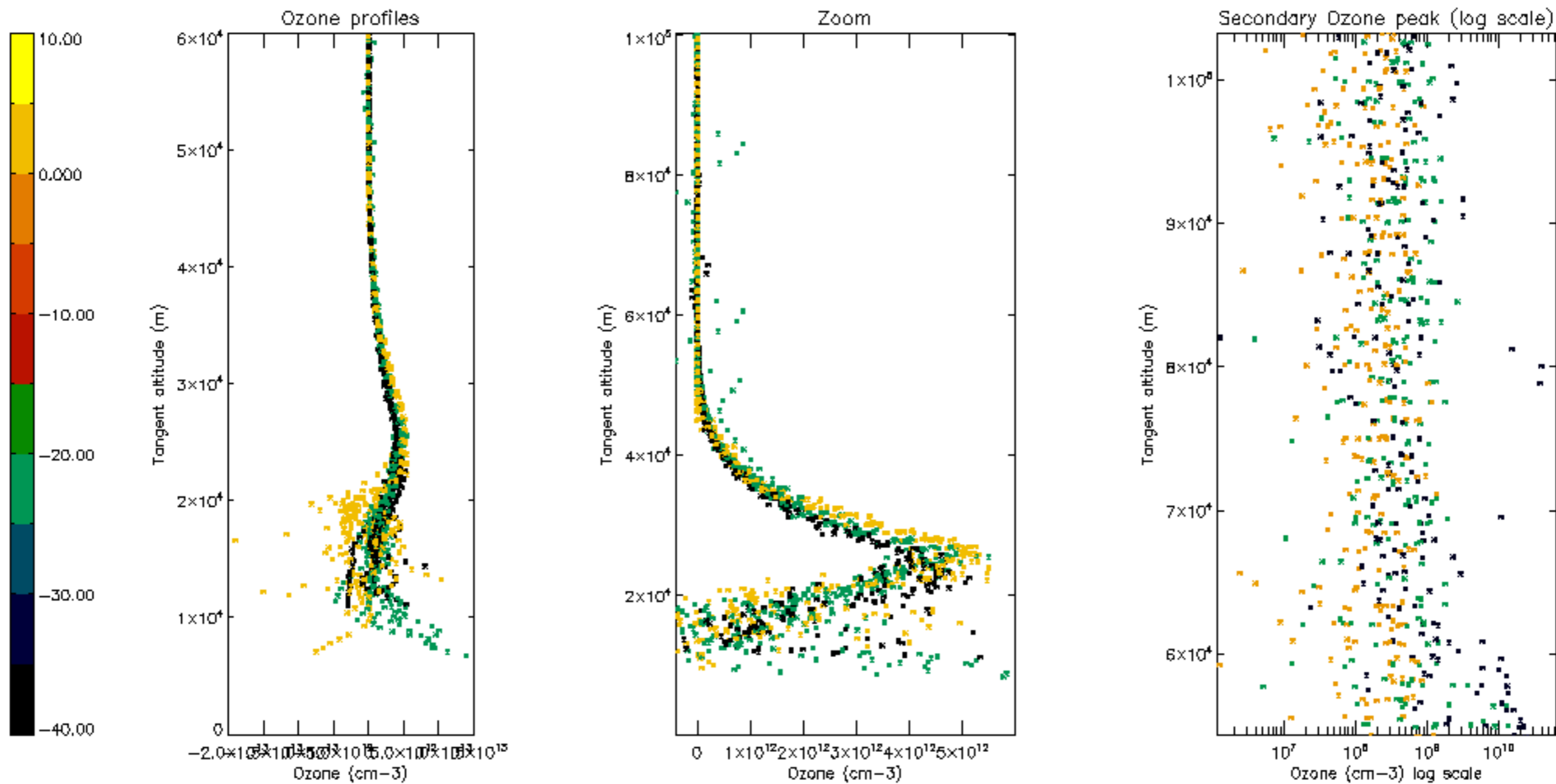


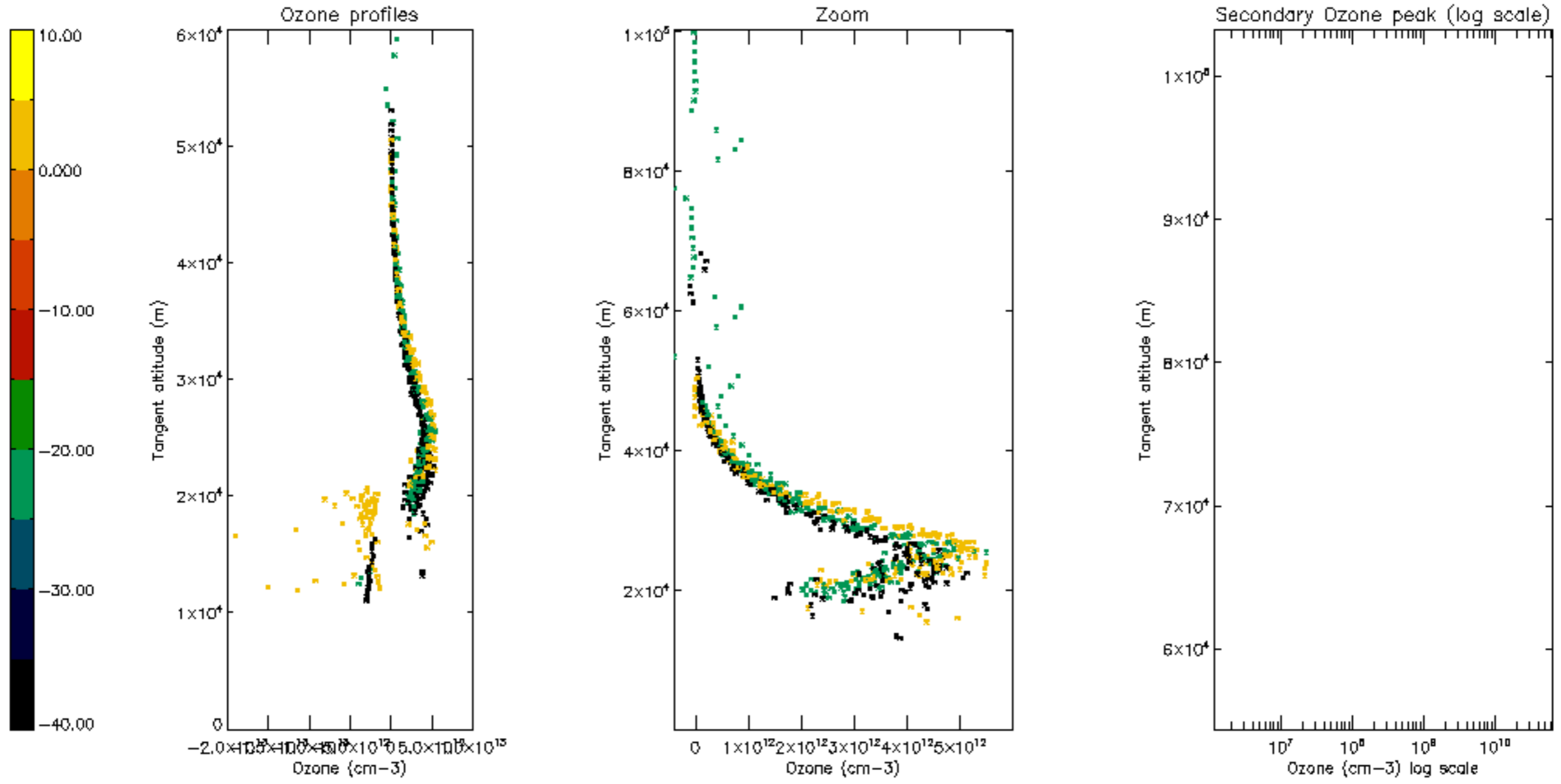
Percentage of star falling outside central band per profile

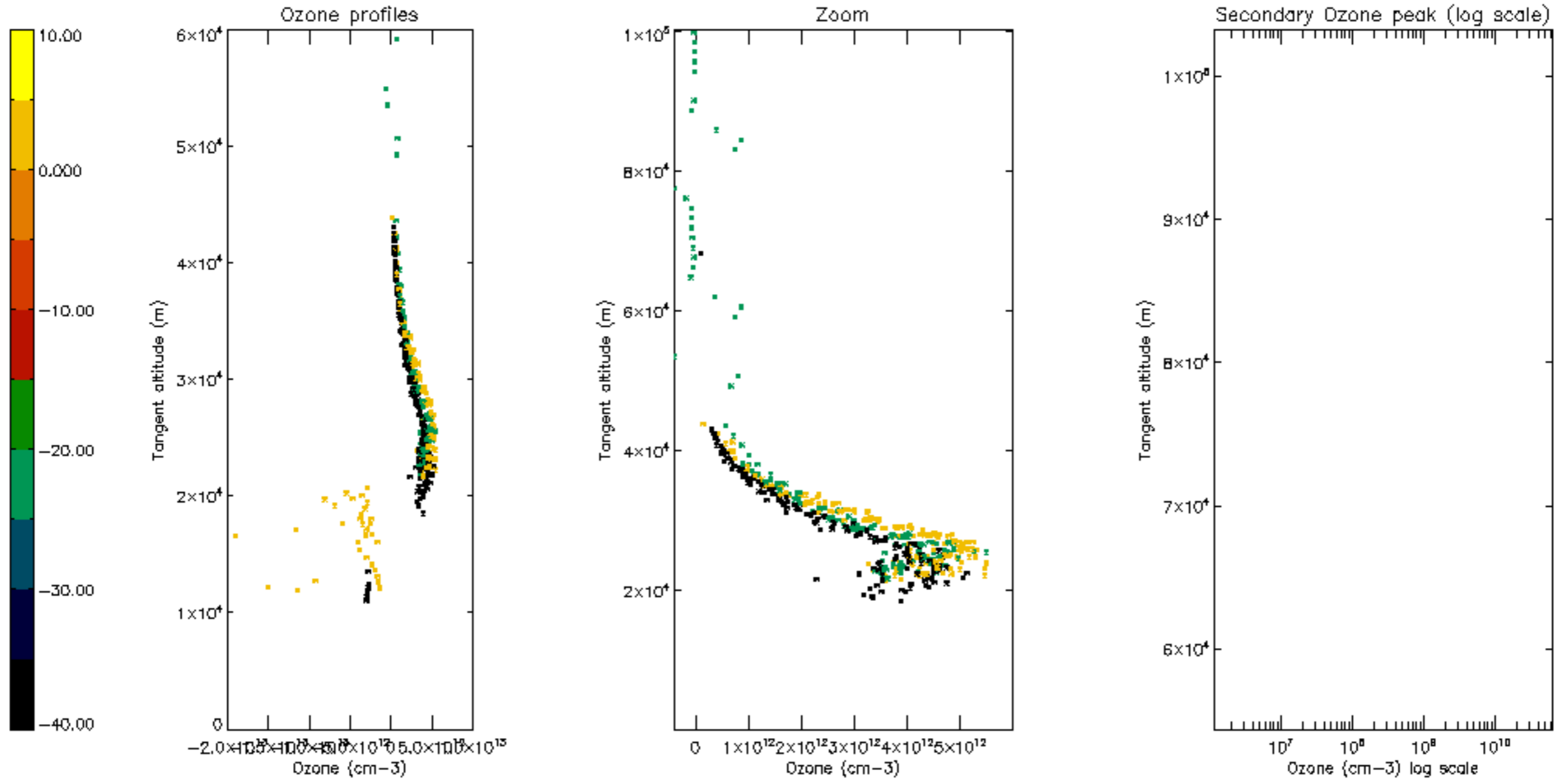


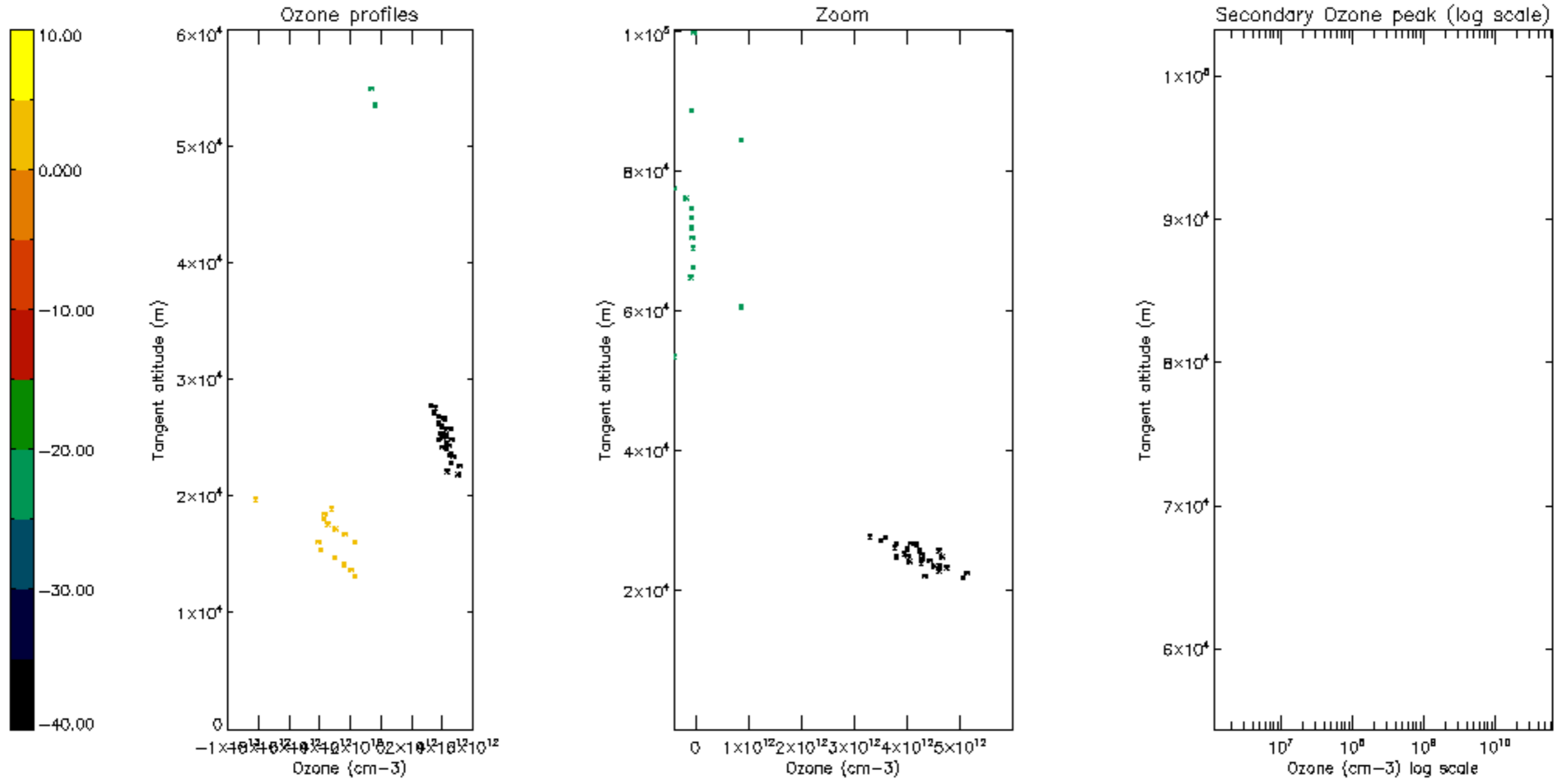
Percentage of saturation errors per profile

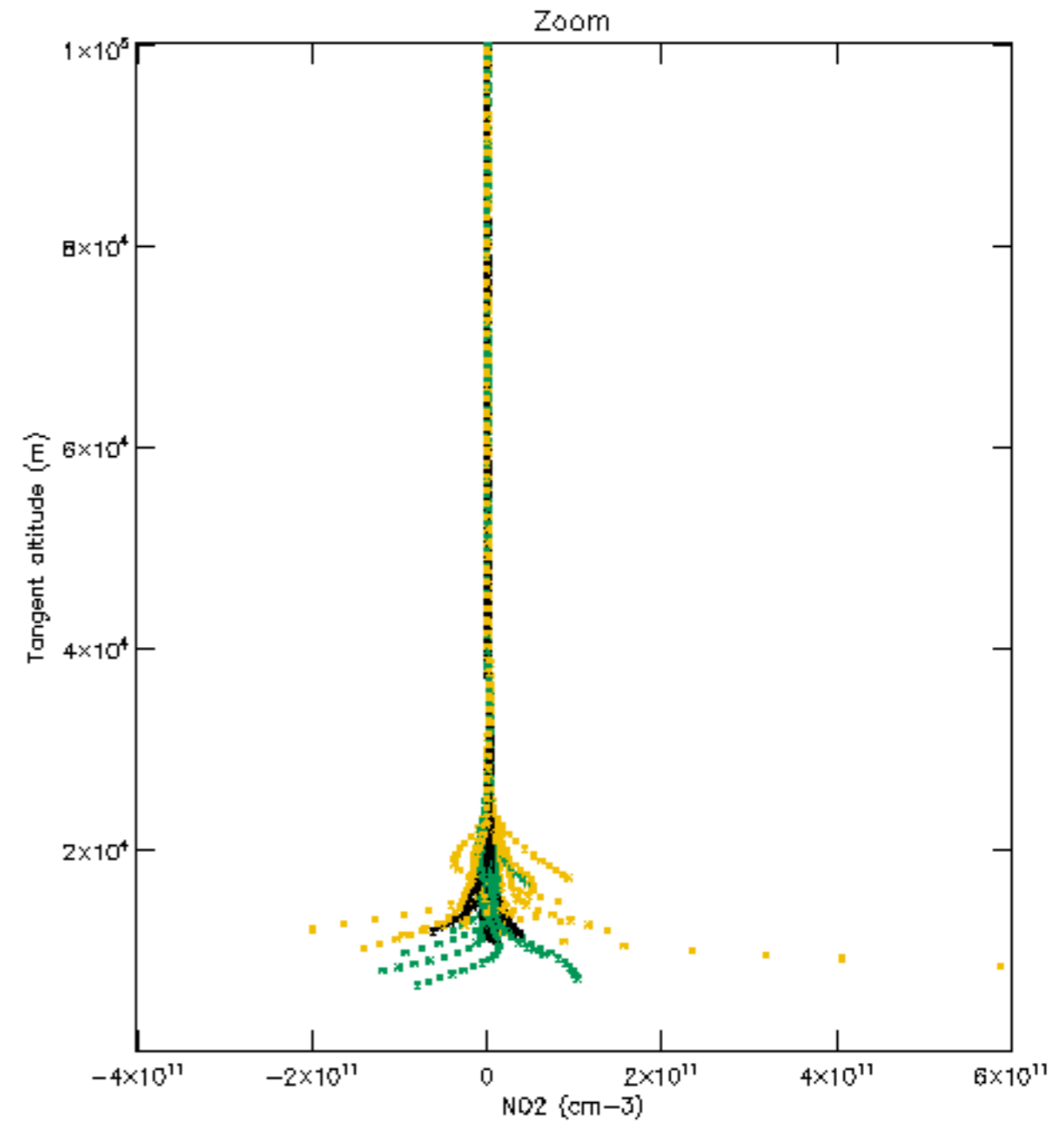
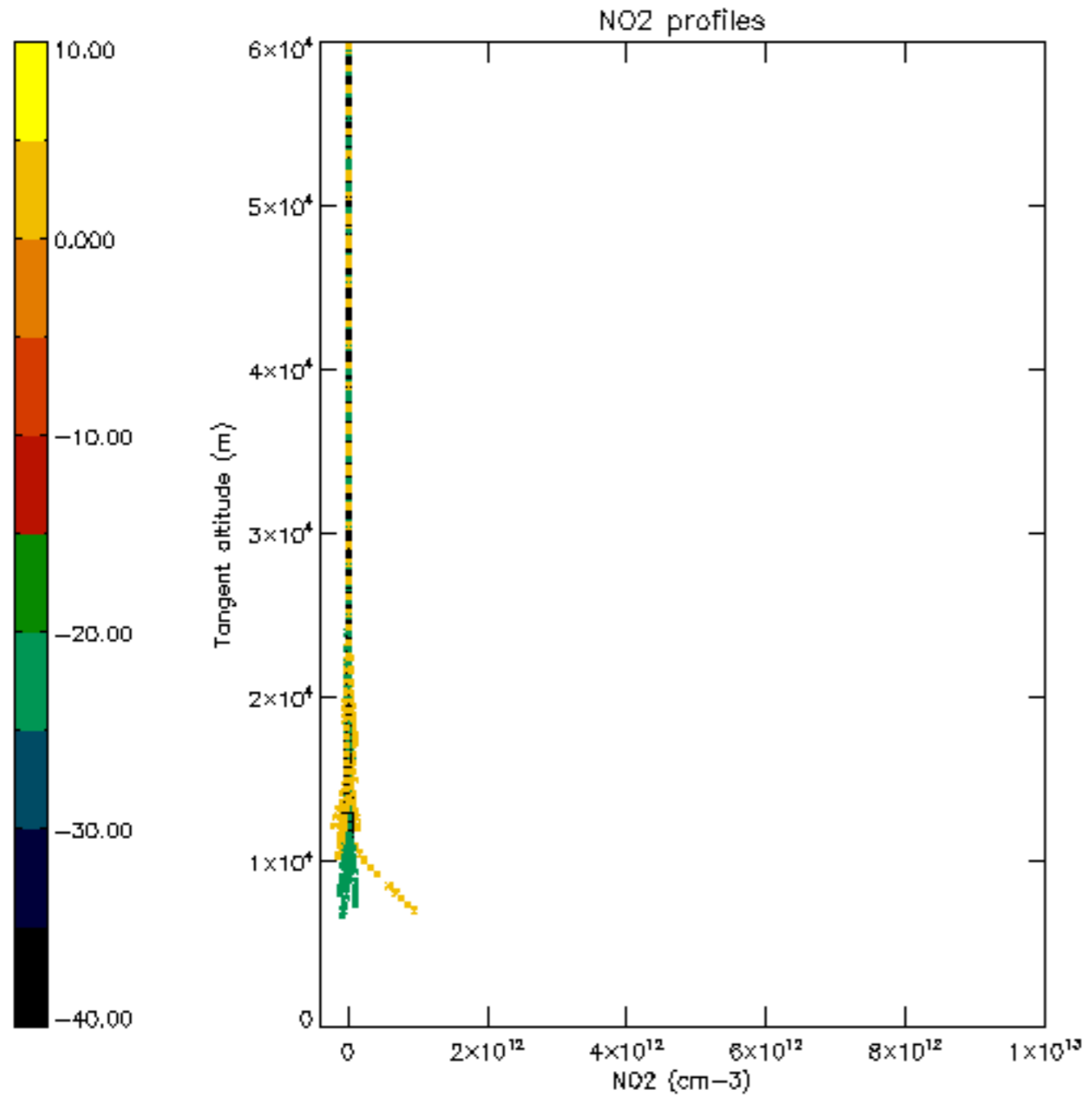


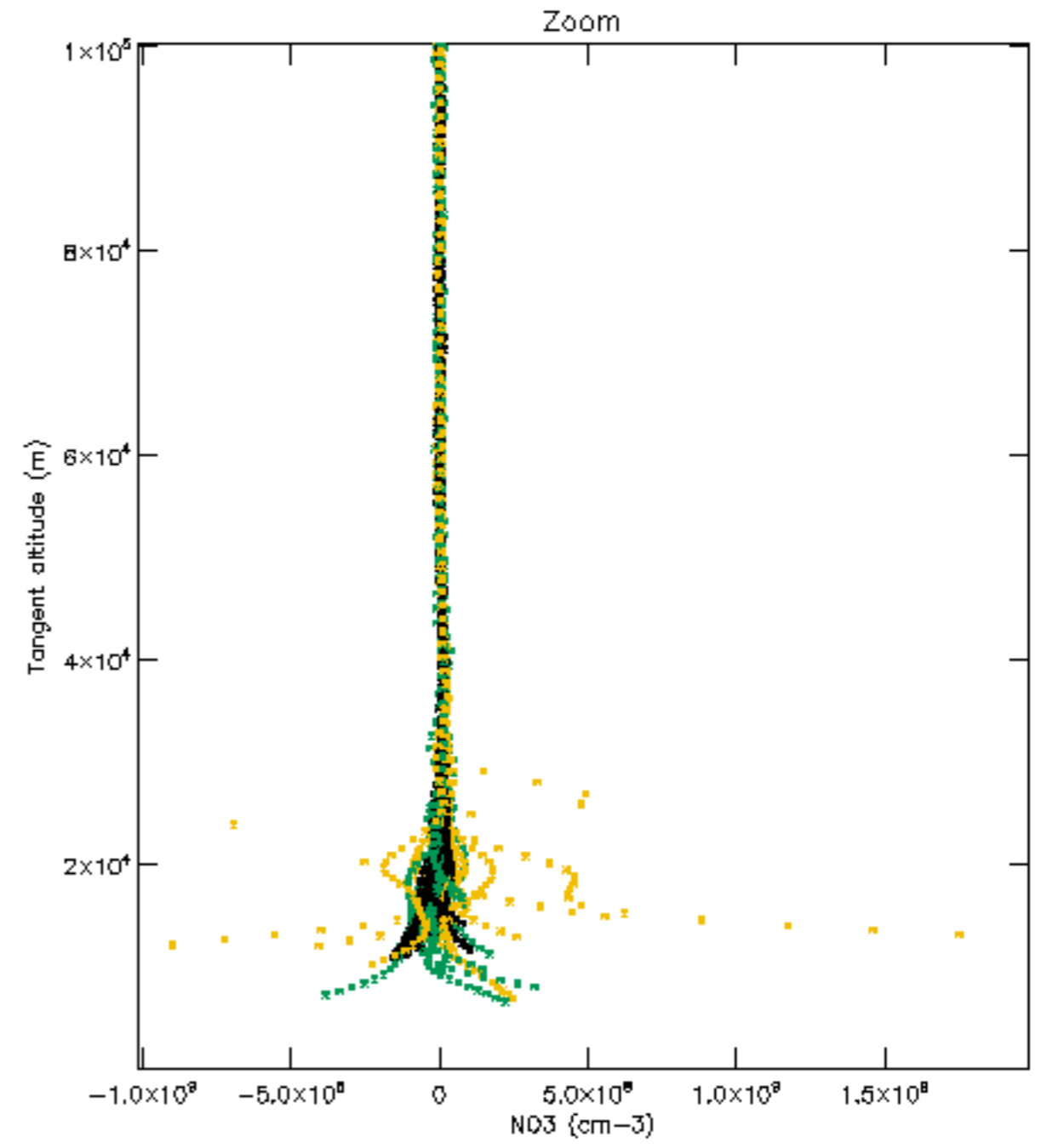
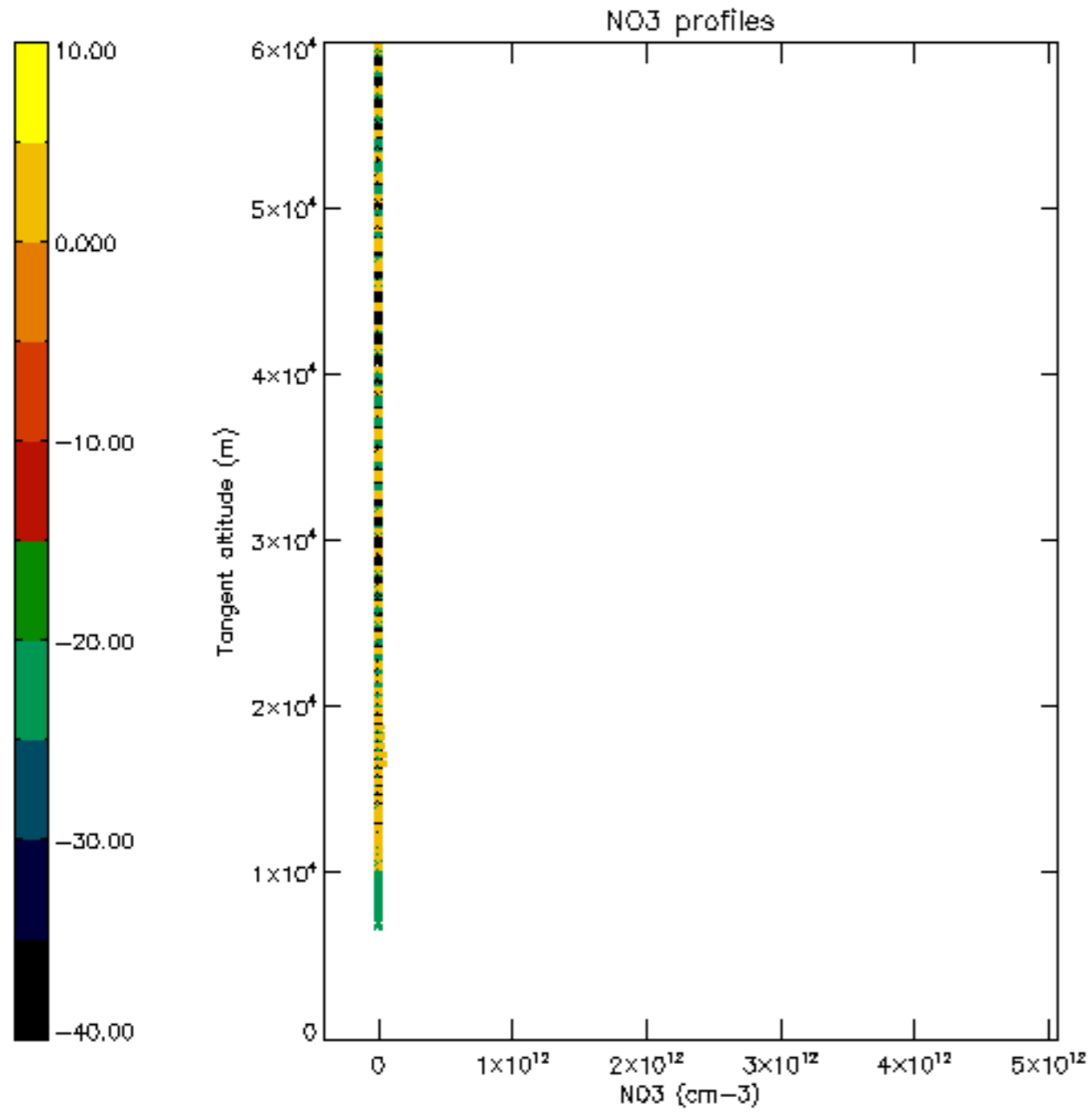


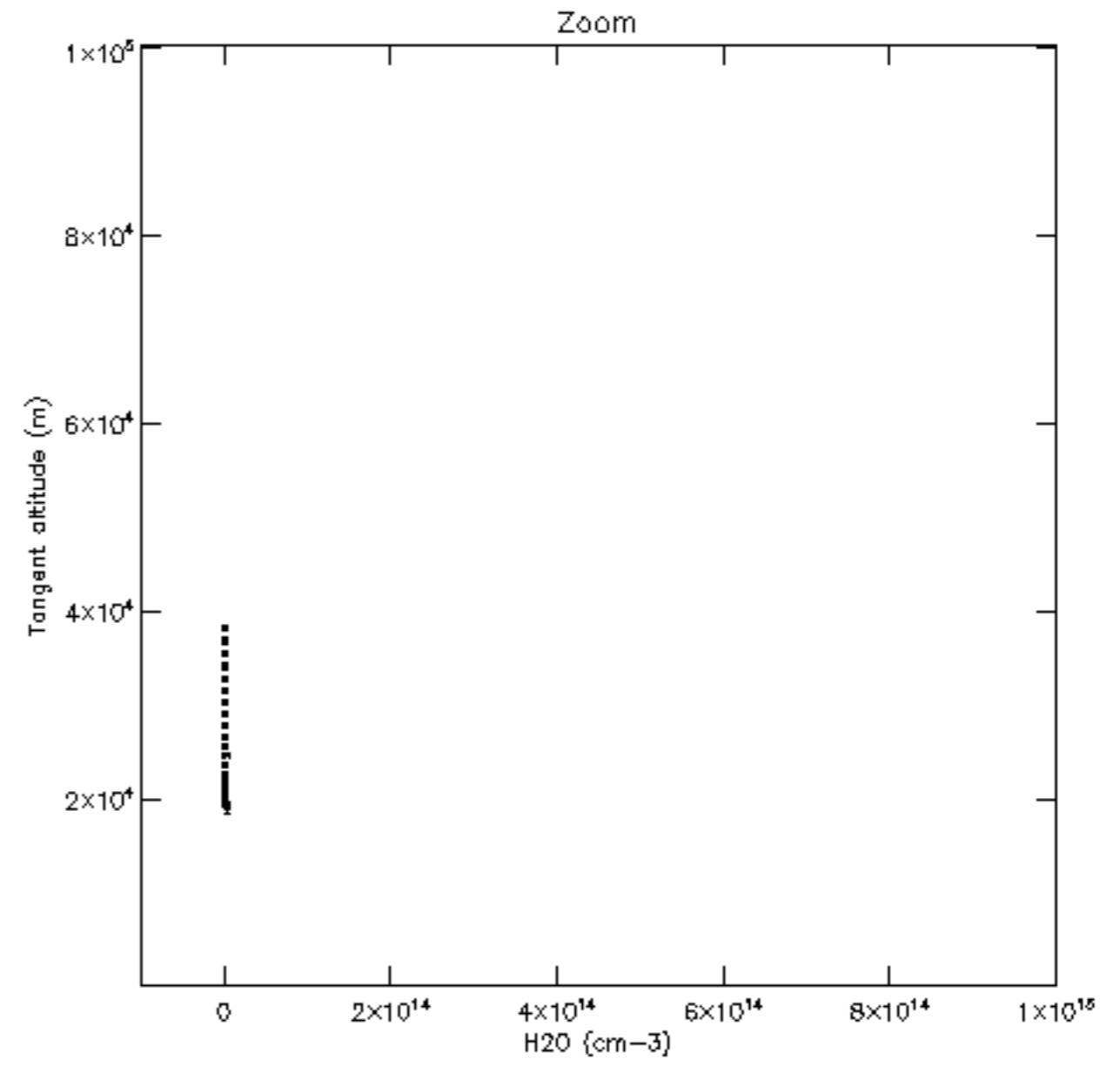
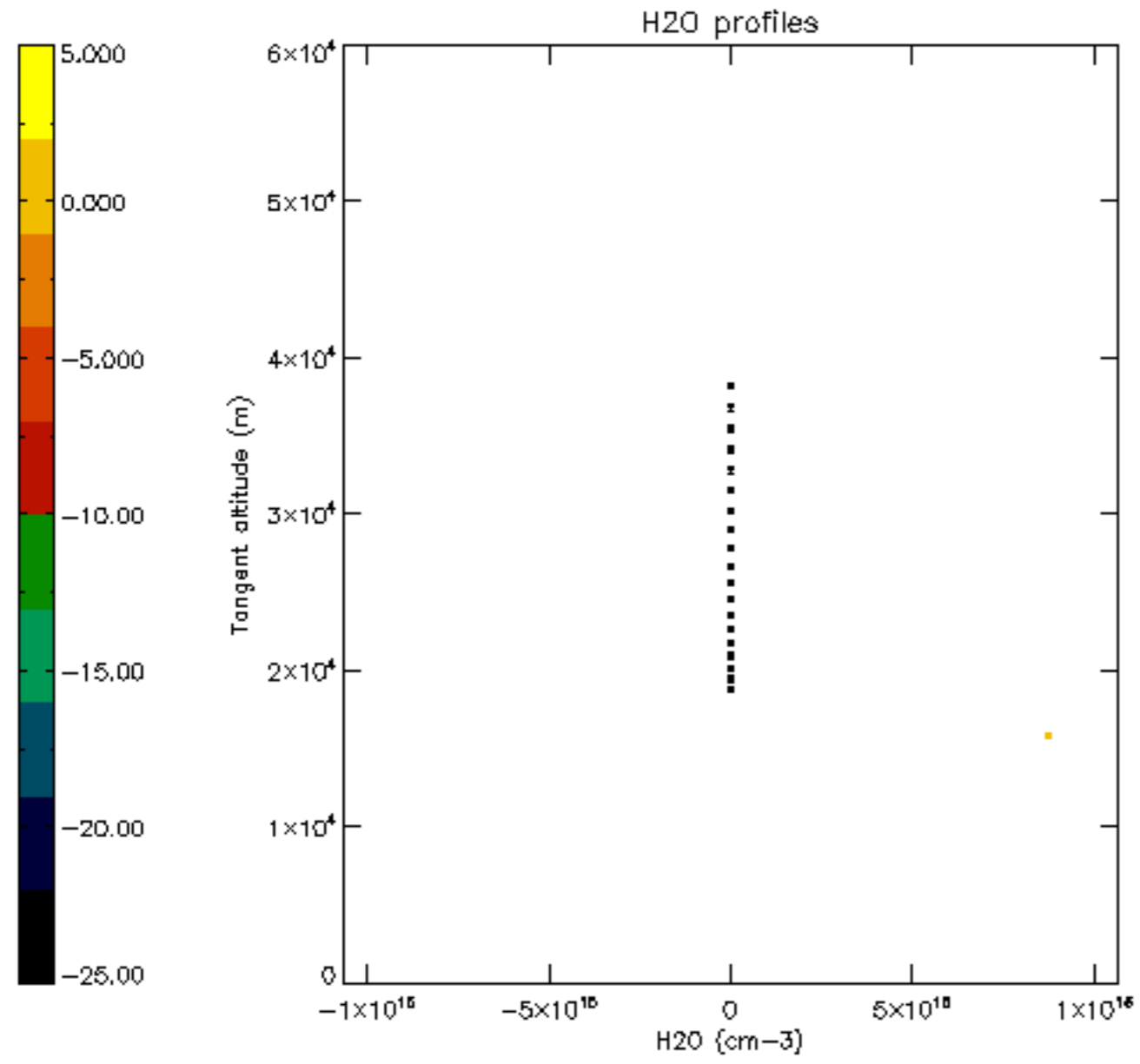


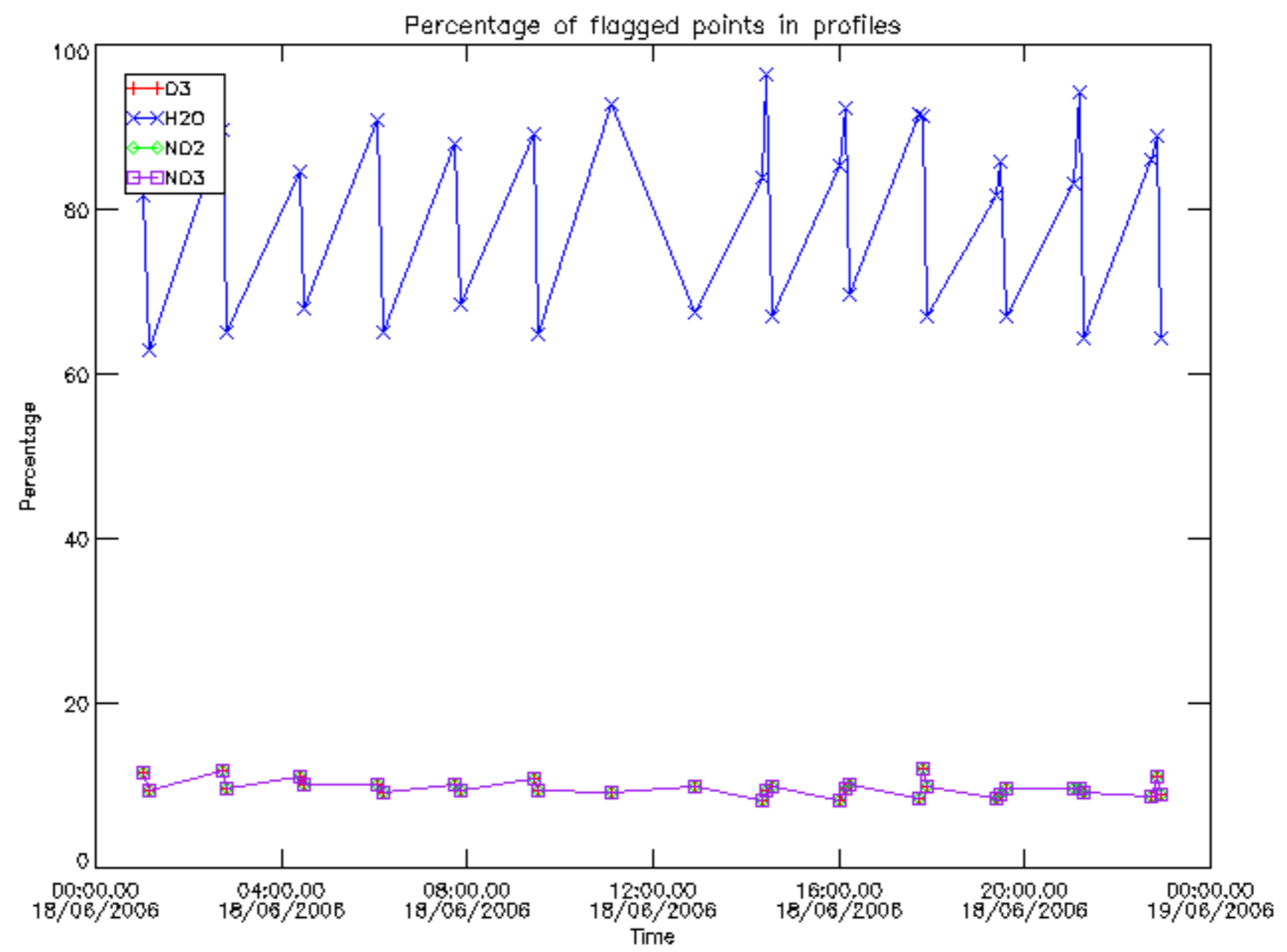




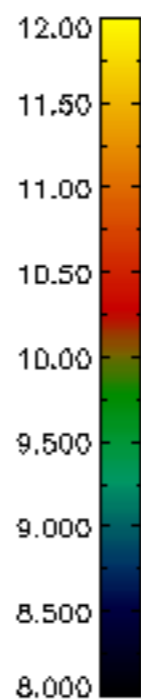
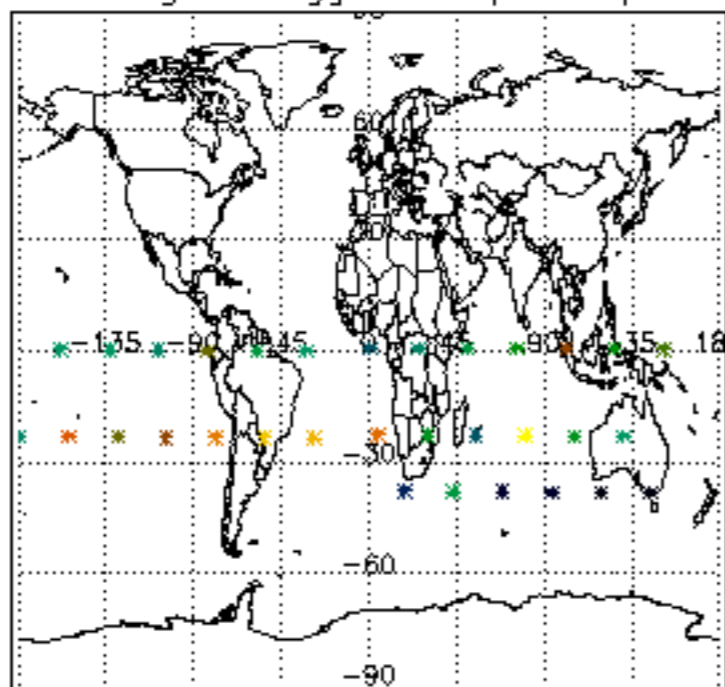




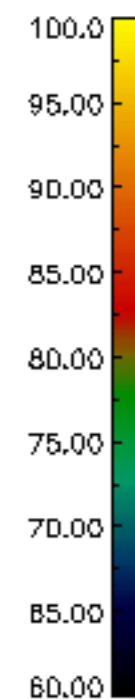
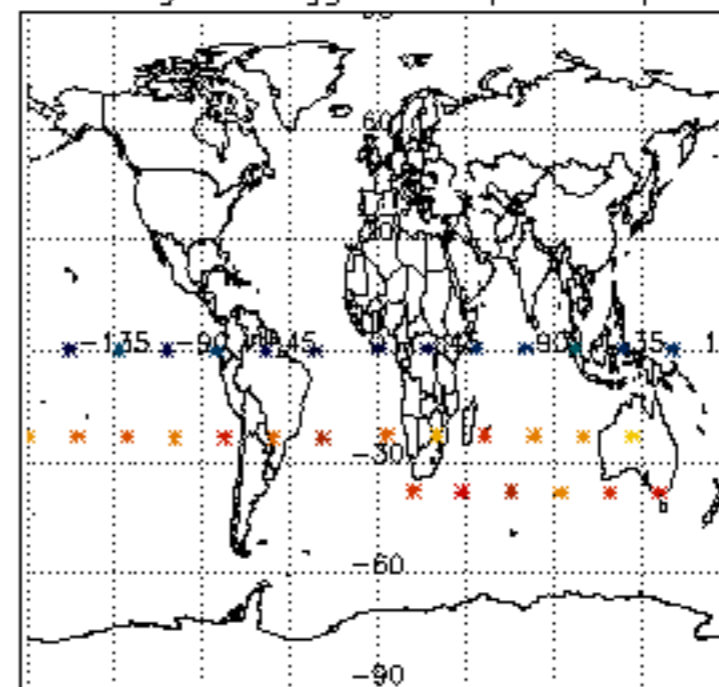




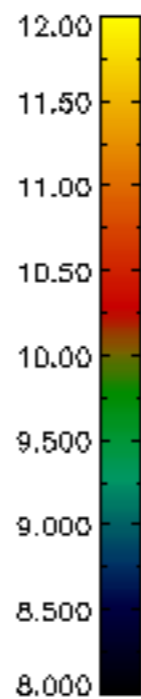
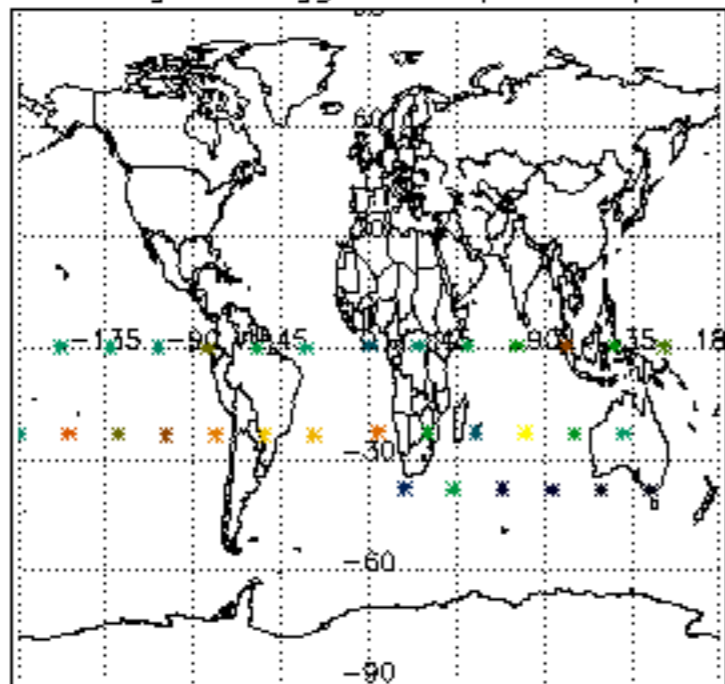
Percentage of flagged data per D3 profile



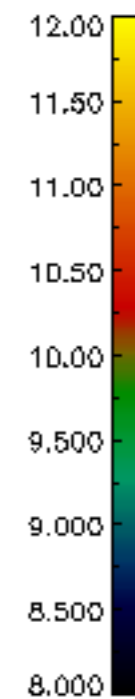
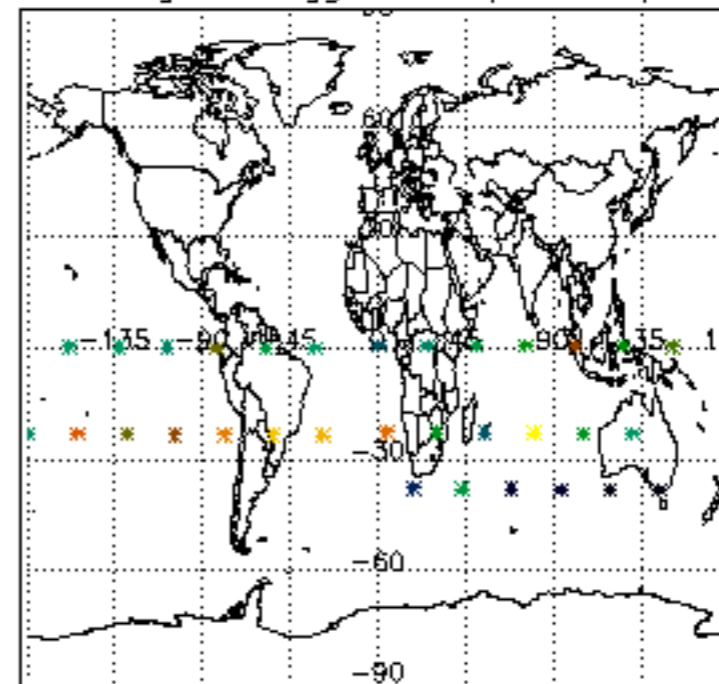
Percentage of flagged data per H2O profile

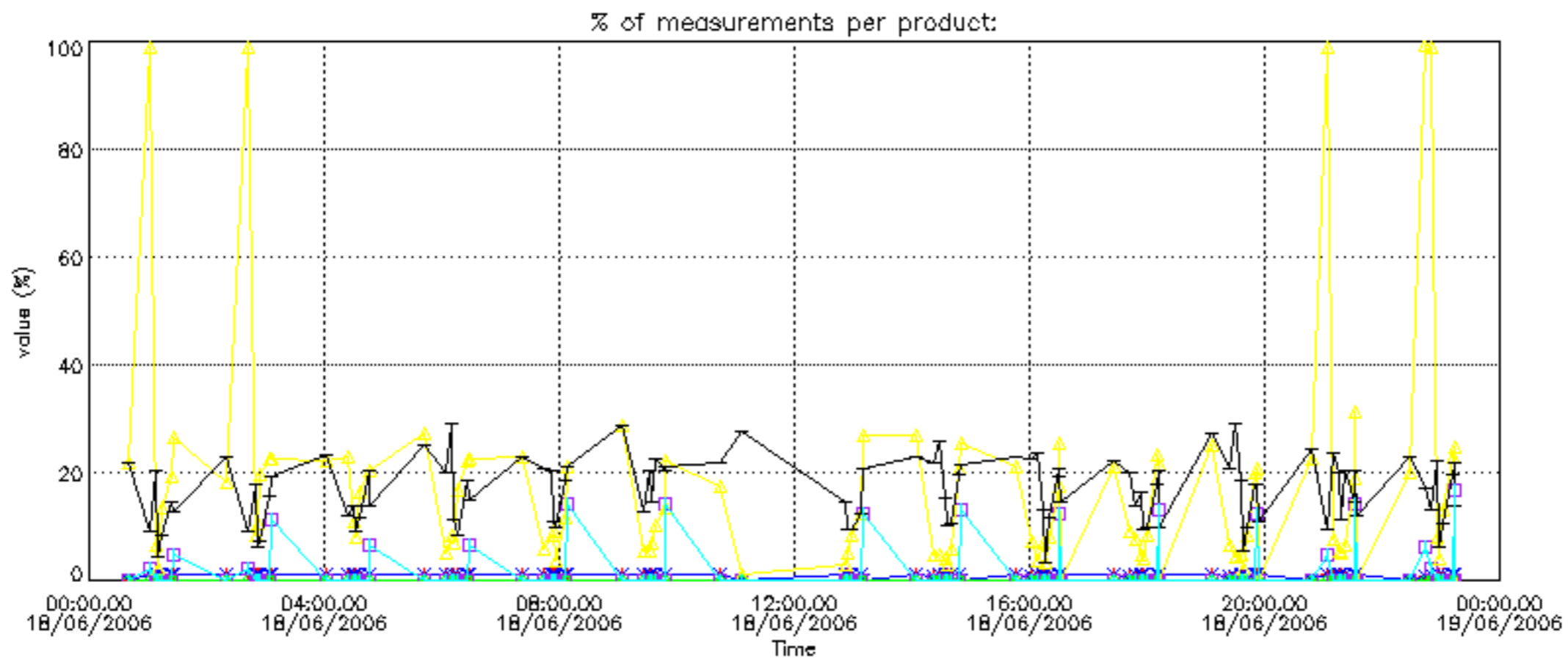


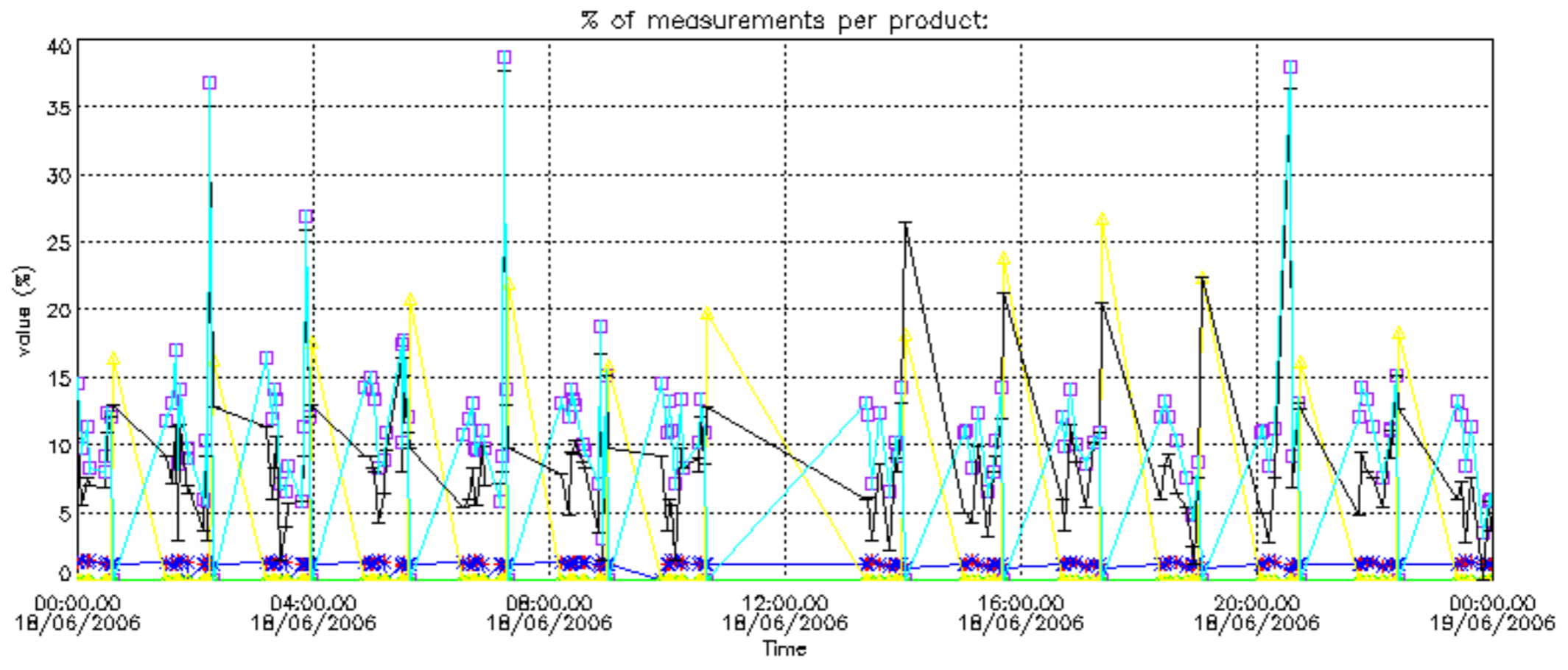
Percentage of flagged data per NO2 profile



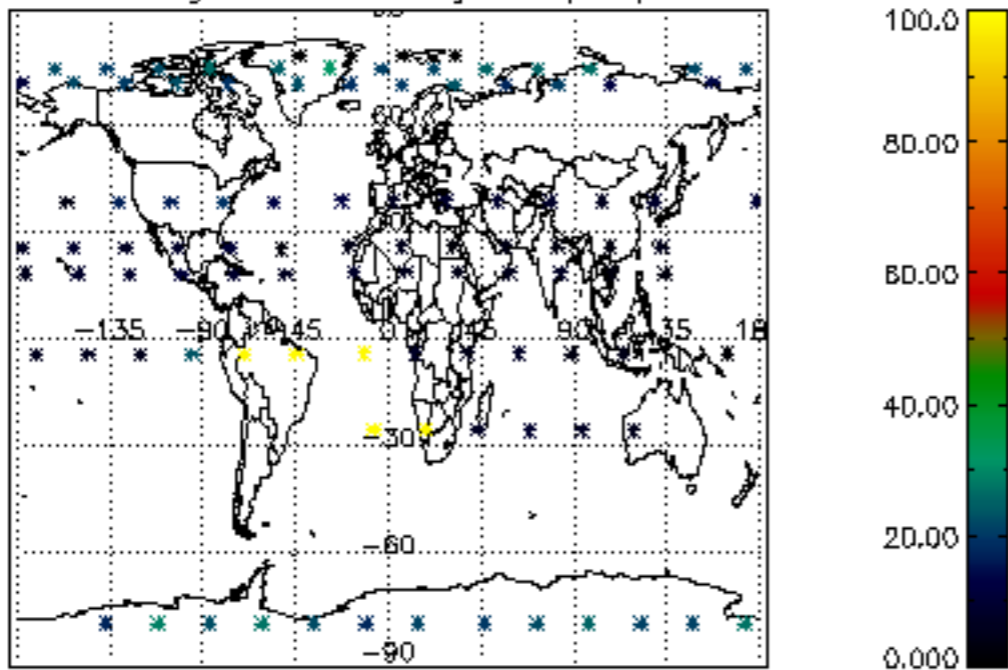
Percentage of flagged data per NO3 profile



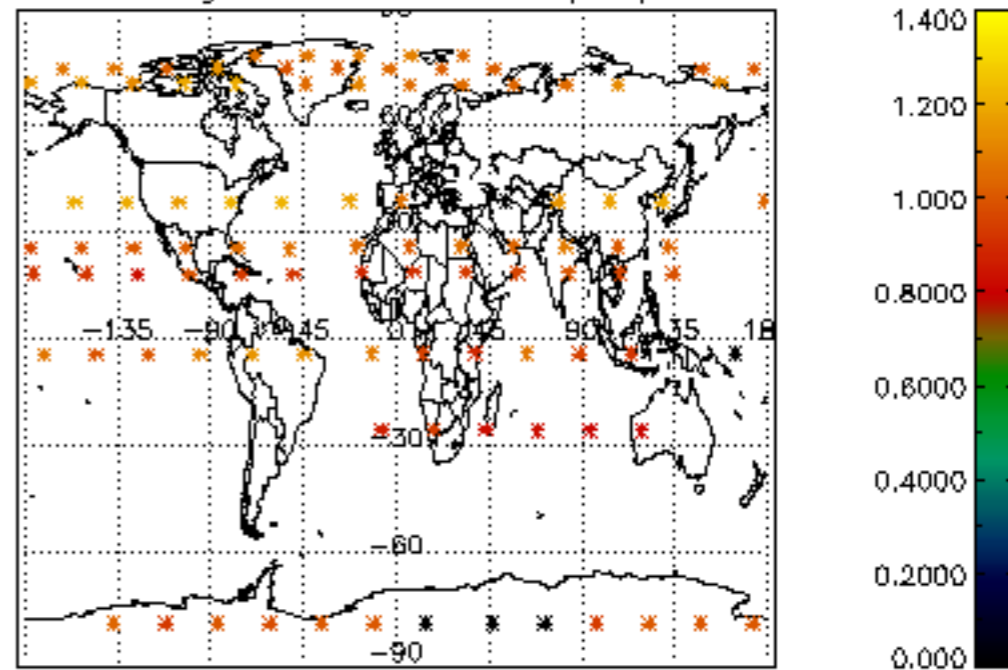




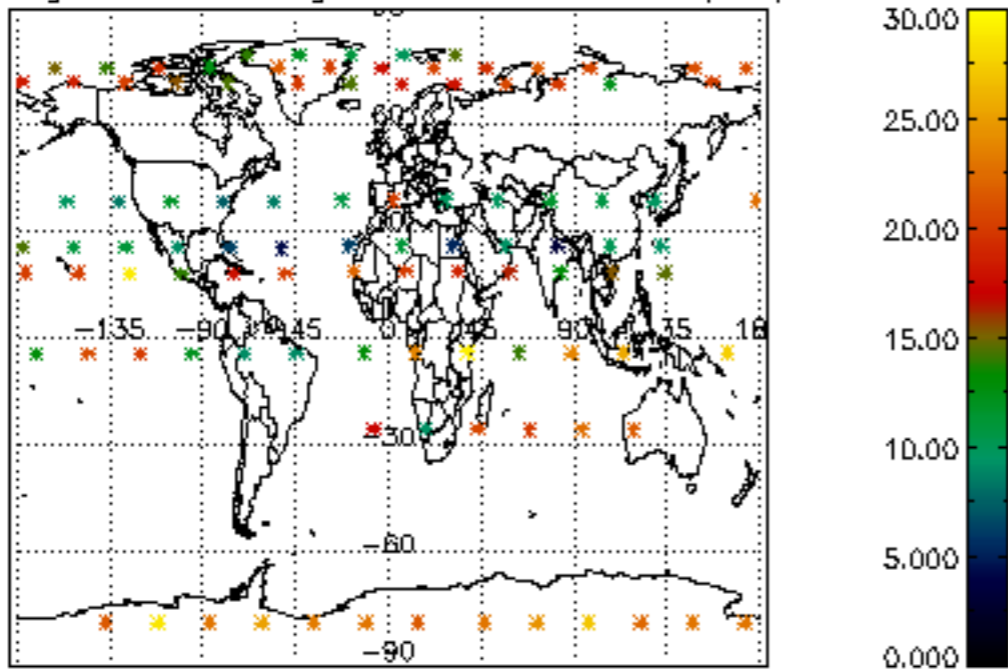
Percentage of cosmic ray hits per profile



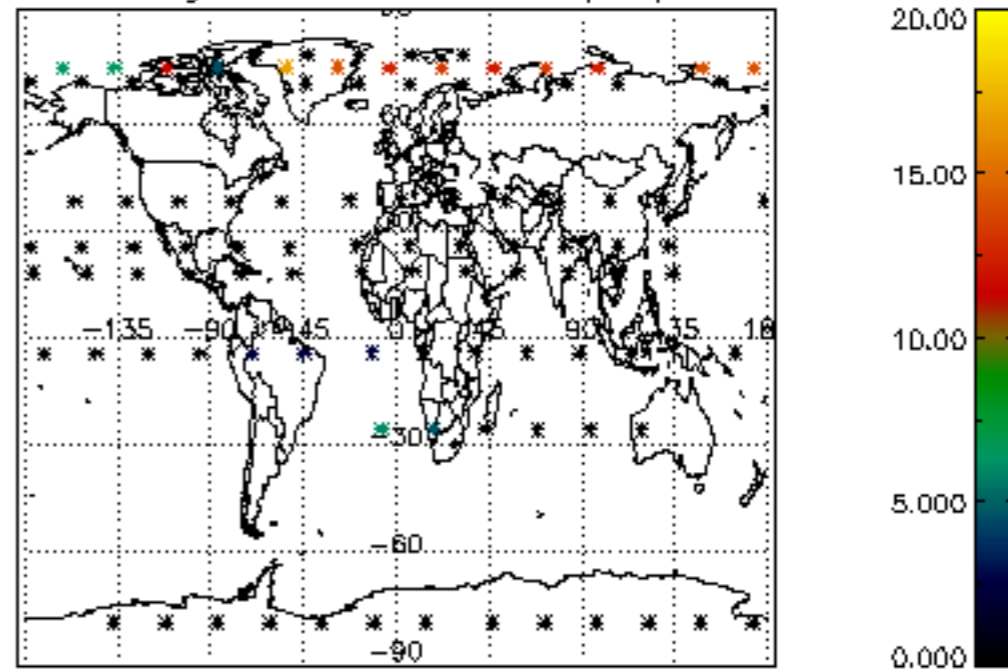
Percentage of datation errors per profile



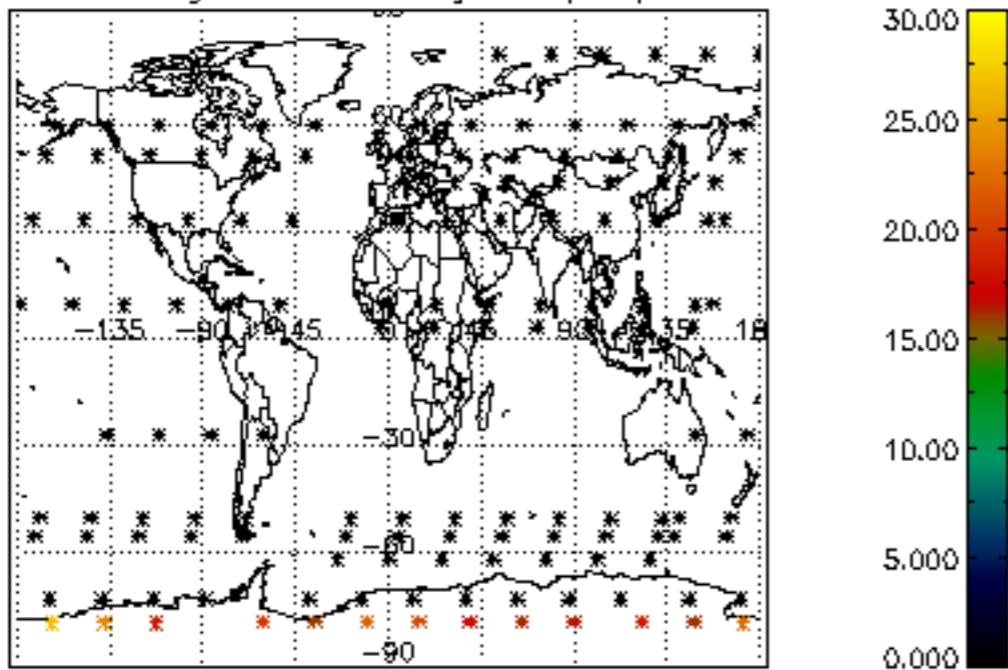
Percentage of star falling outside central band per profile



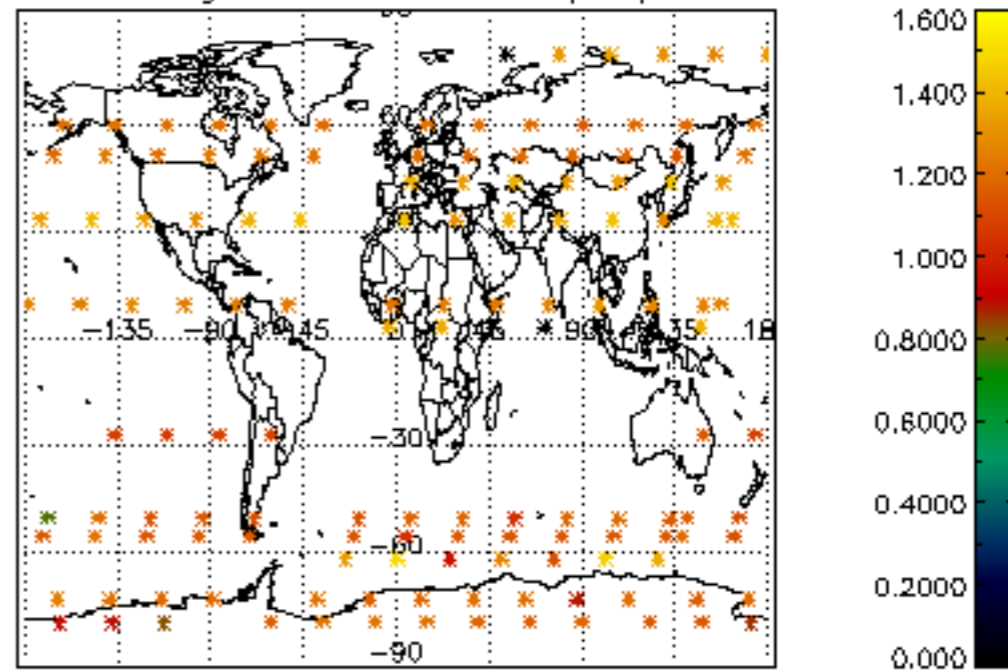
Percentage of saturation errors per profile



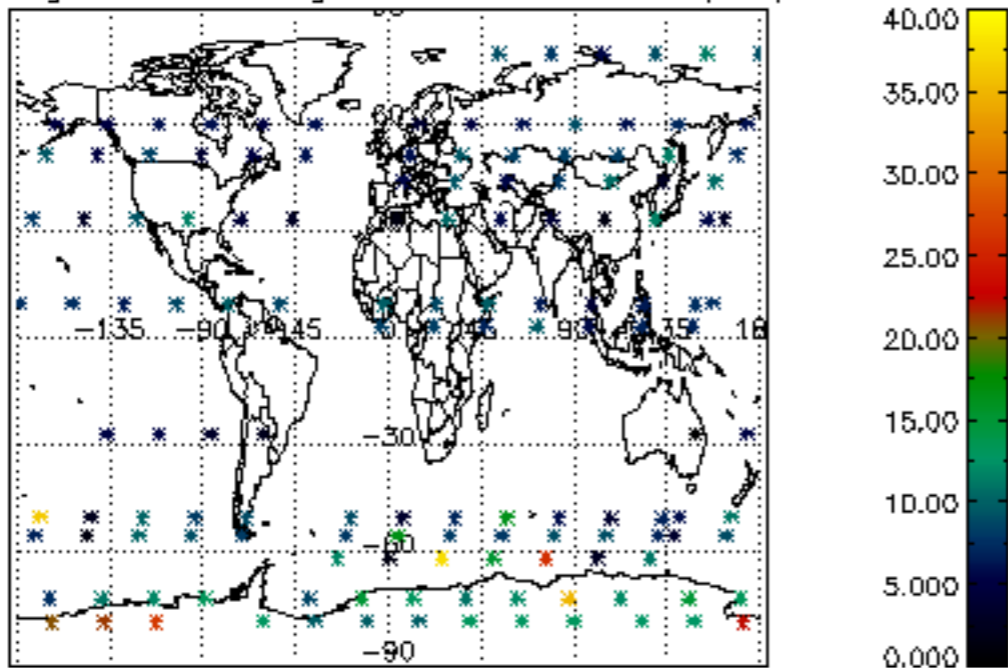
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

