

GOMOS Level 2 Daily Report

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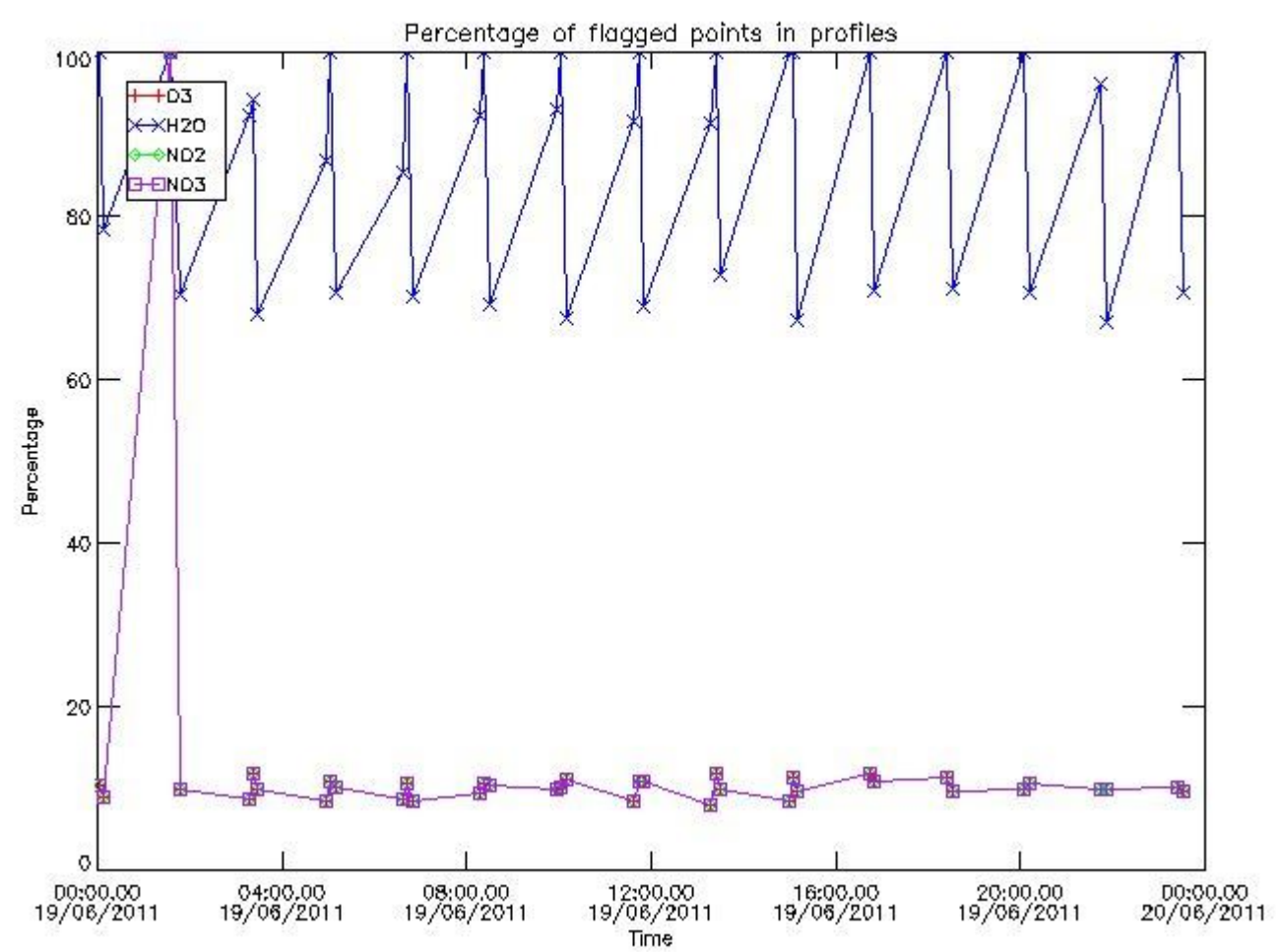
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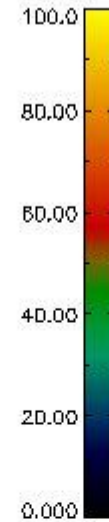
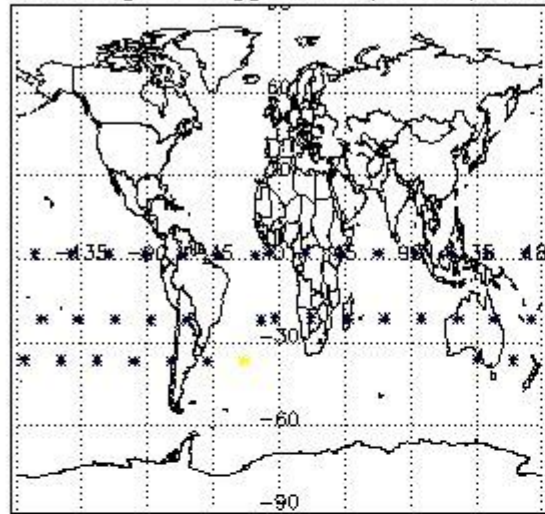
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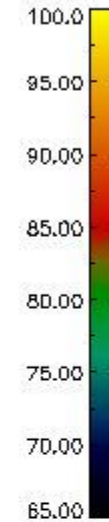
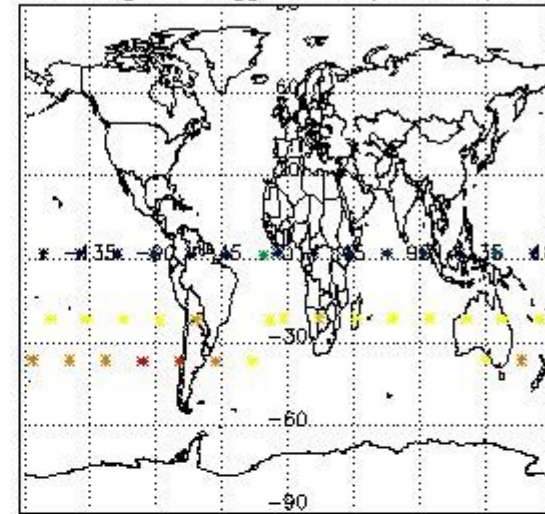


3.2 Plot quality information per product (world map)

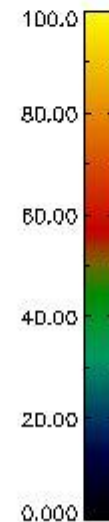
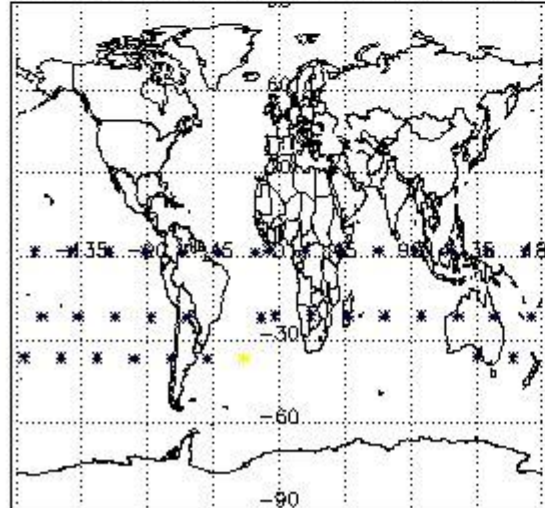
Percentage of flagged data per O3 profile



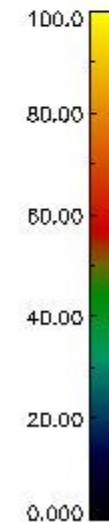
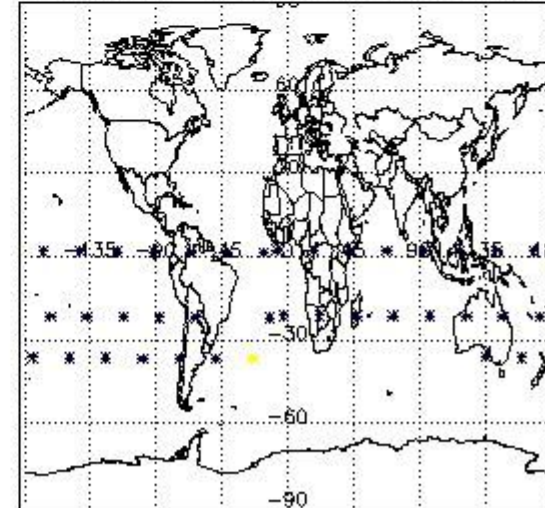
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

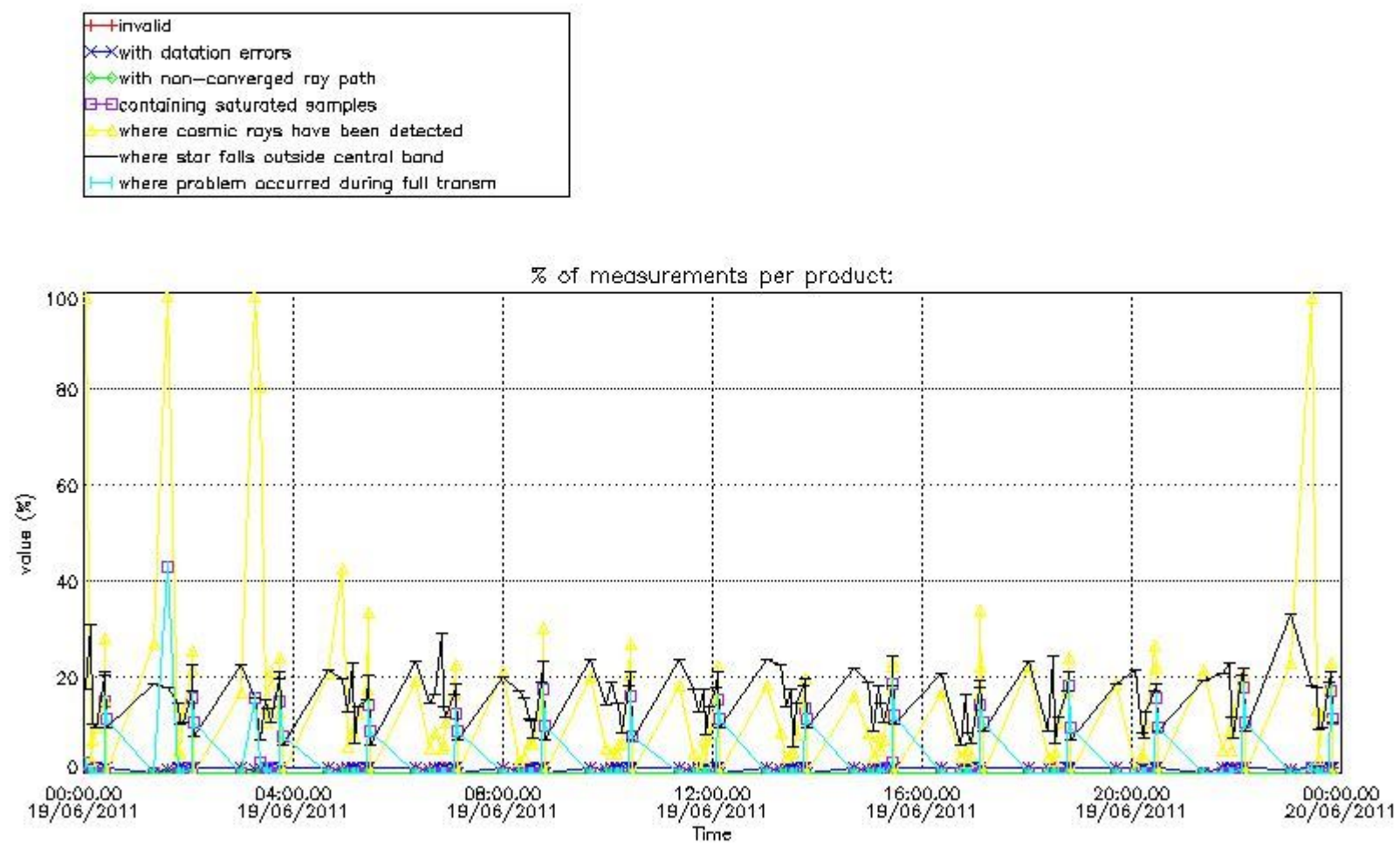


4. Level 1 quality information per product

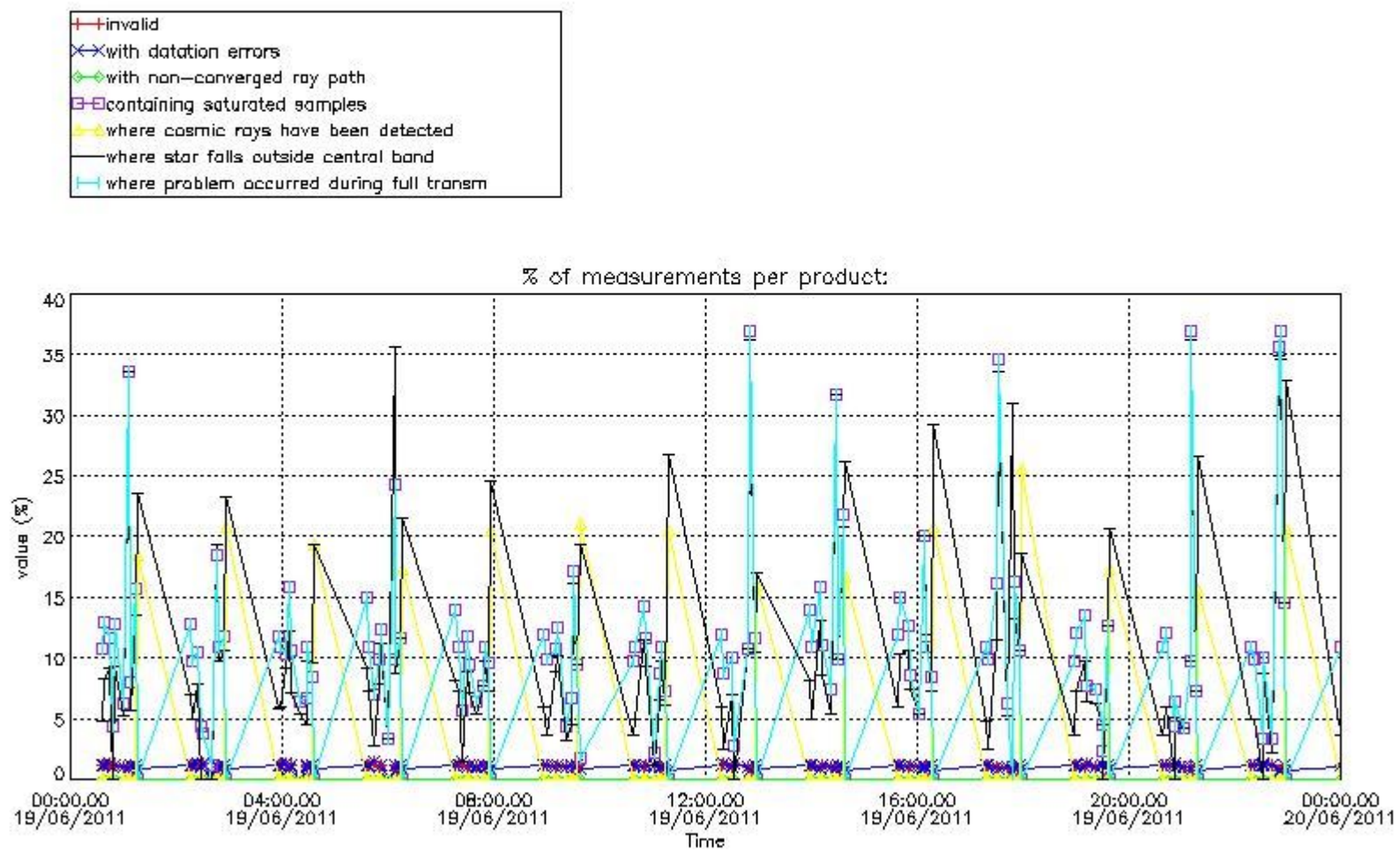
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes

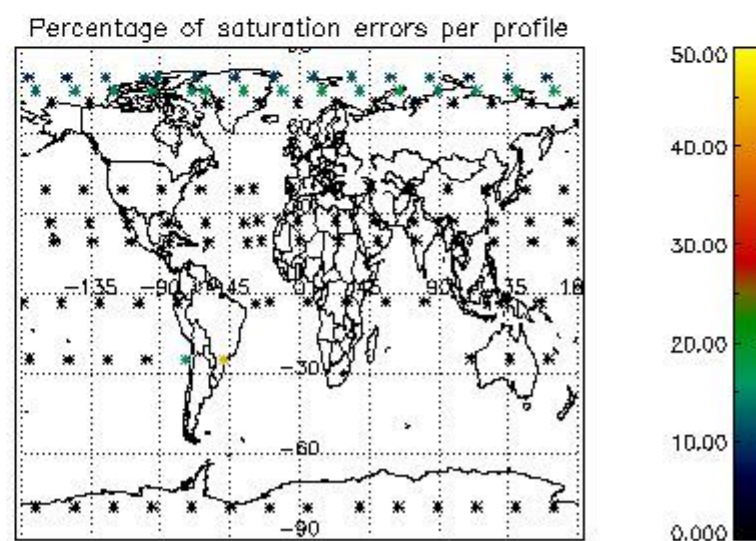
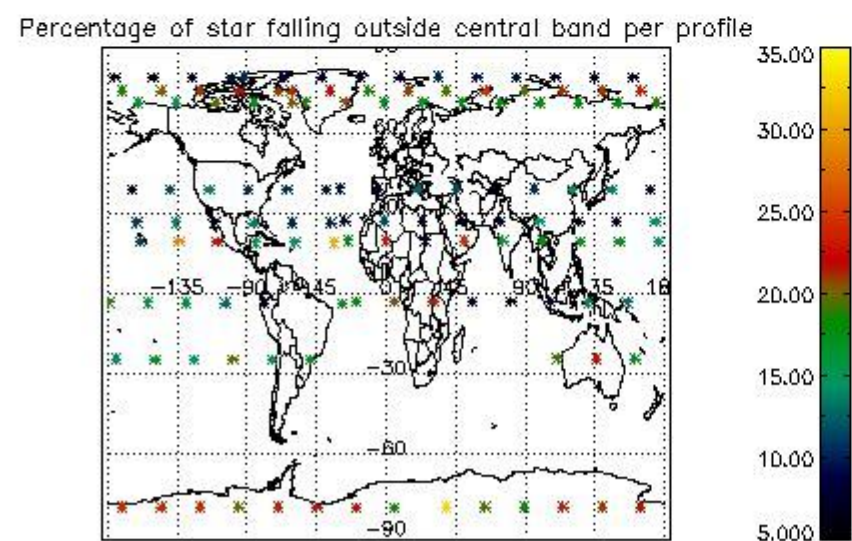
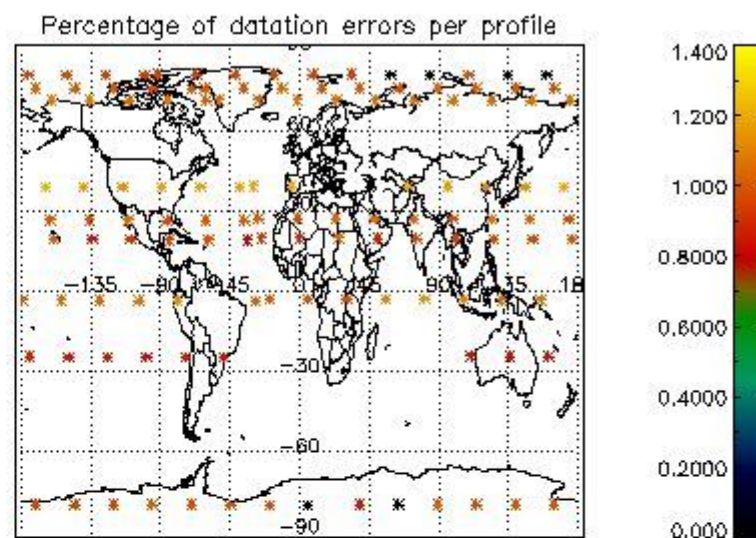
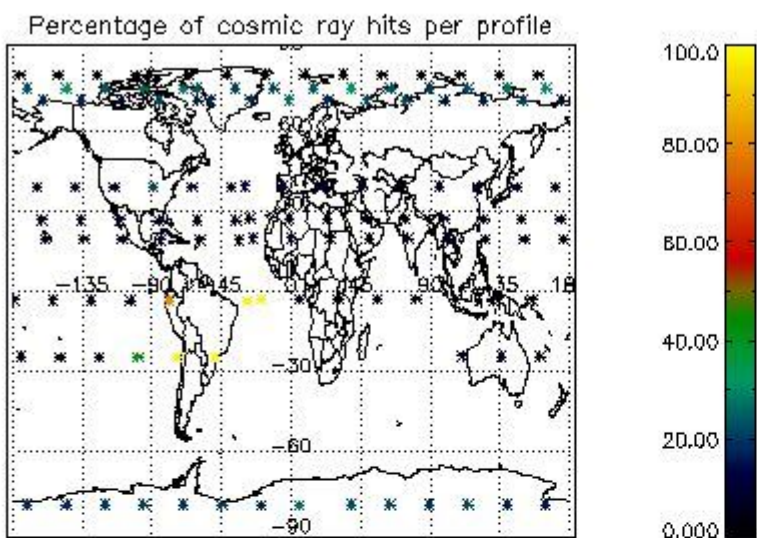


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

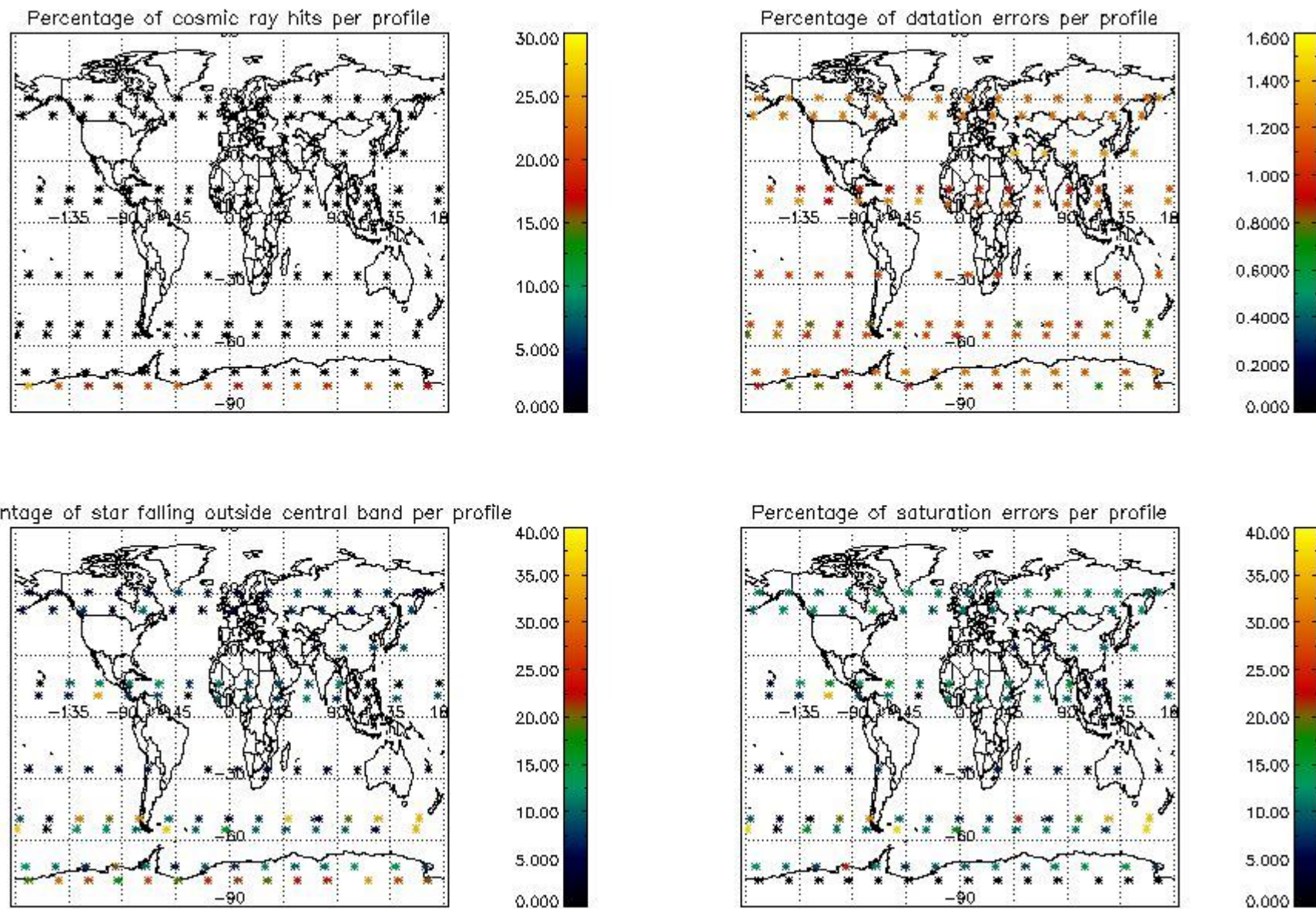


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

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

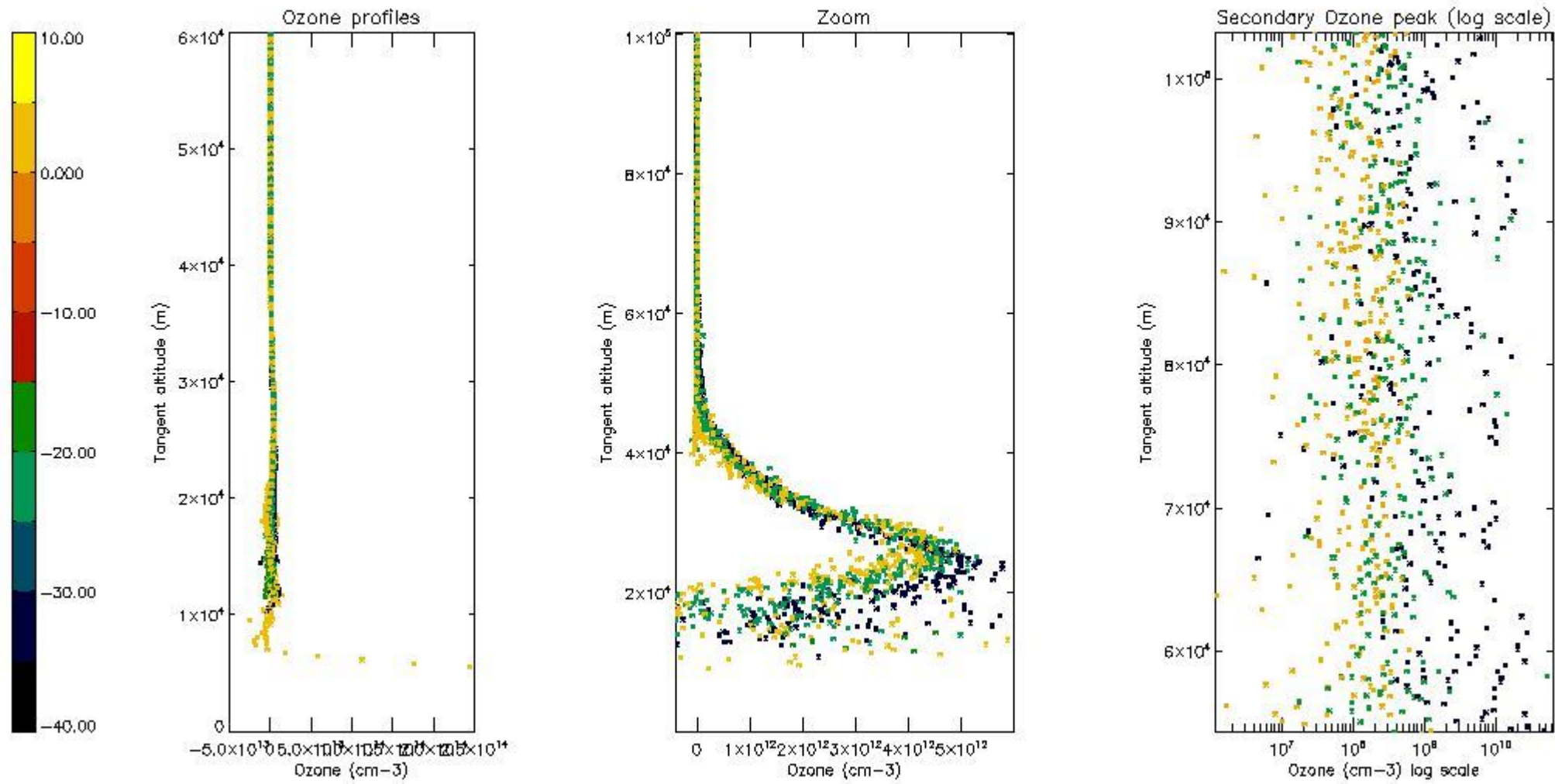
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	16
STD < 20	4

STD < 10	2
STD < 5	0

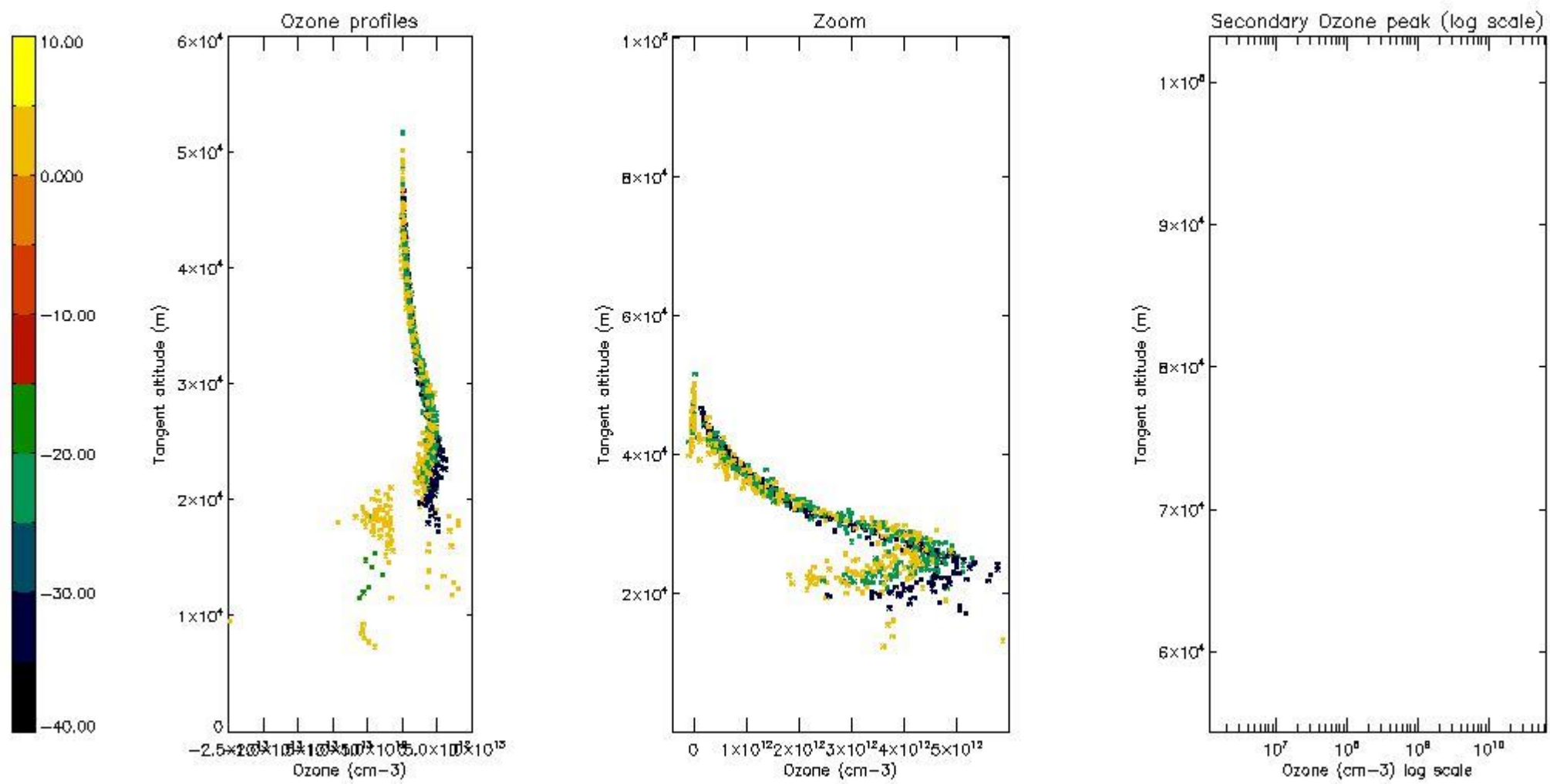
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



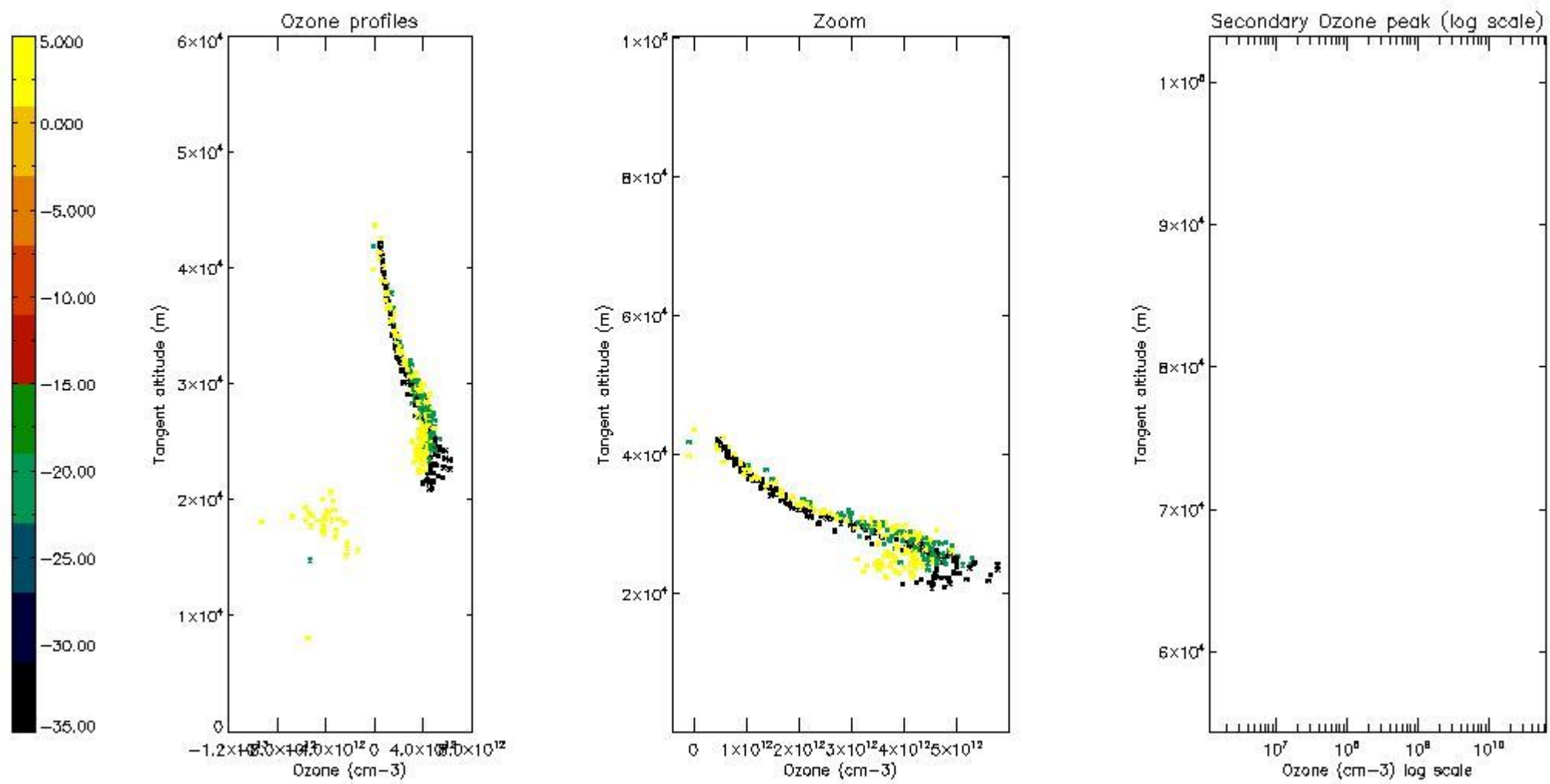
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



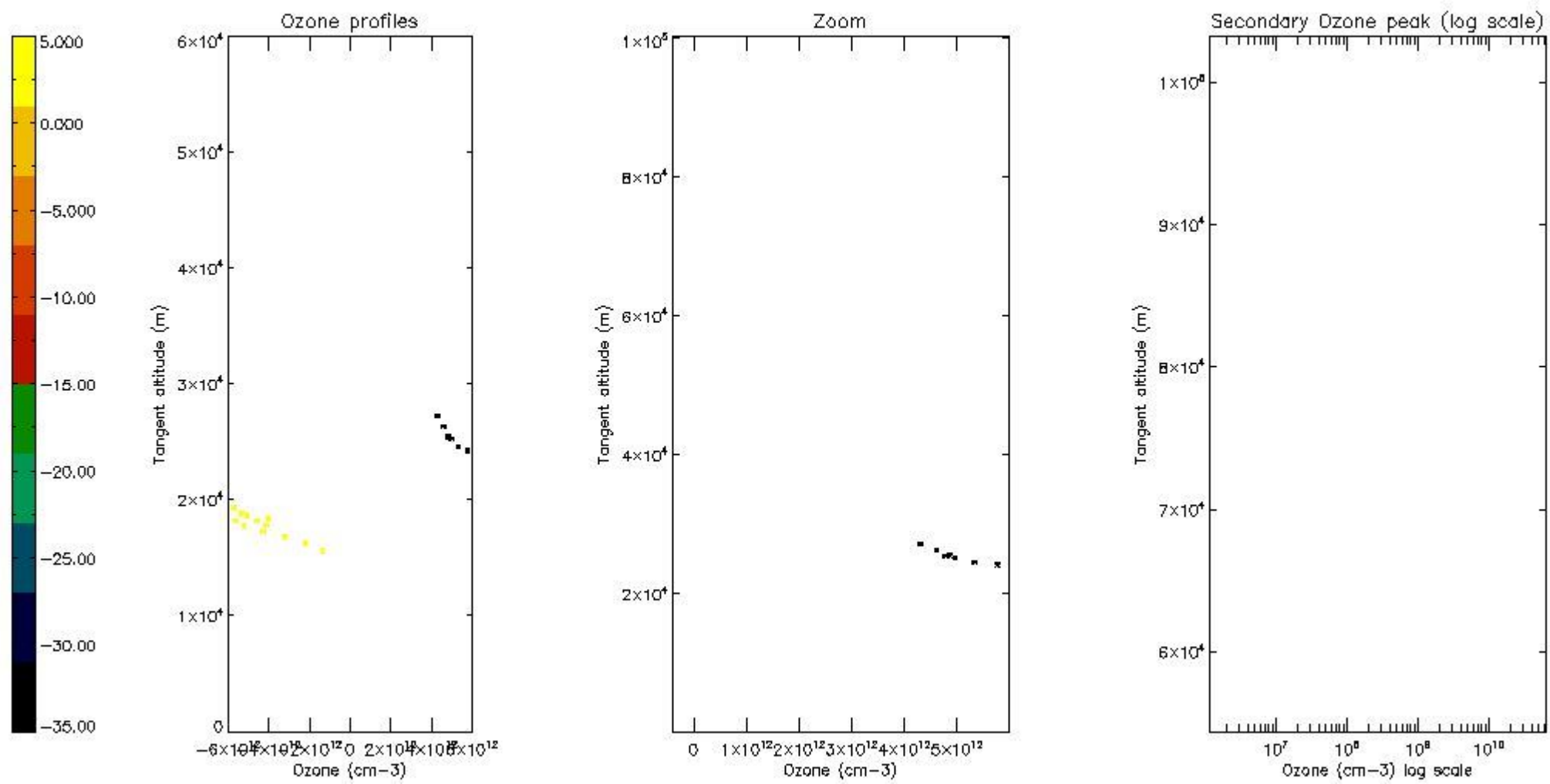
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



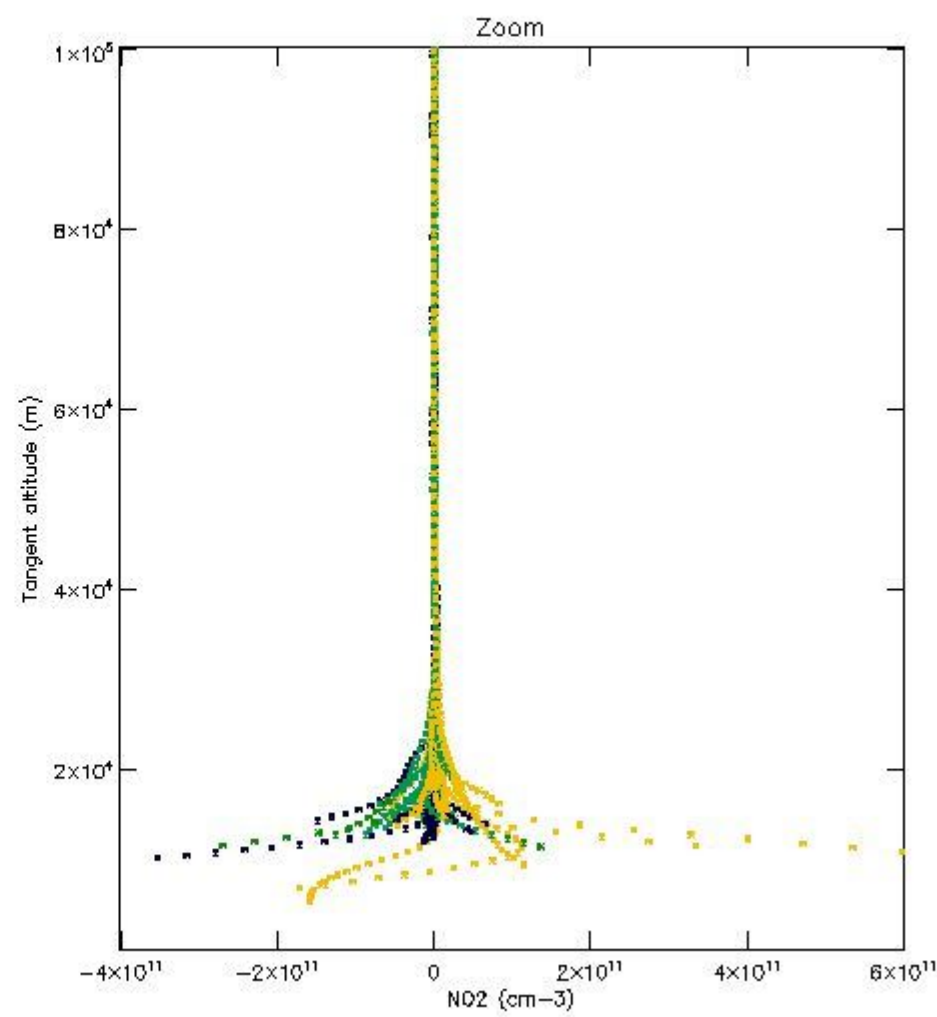
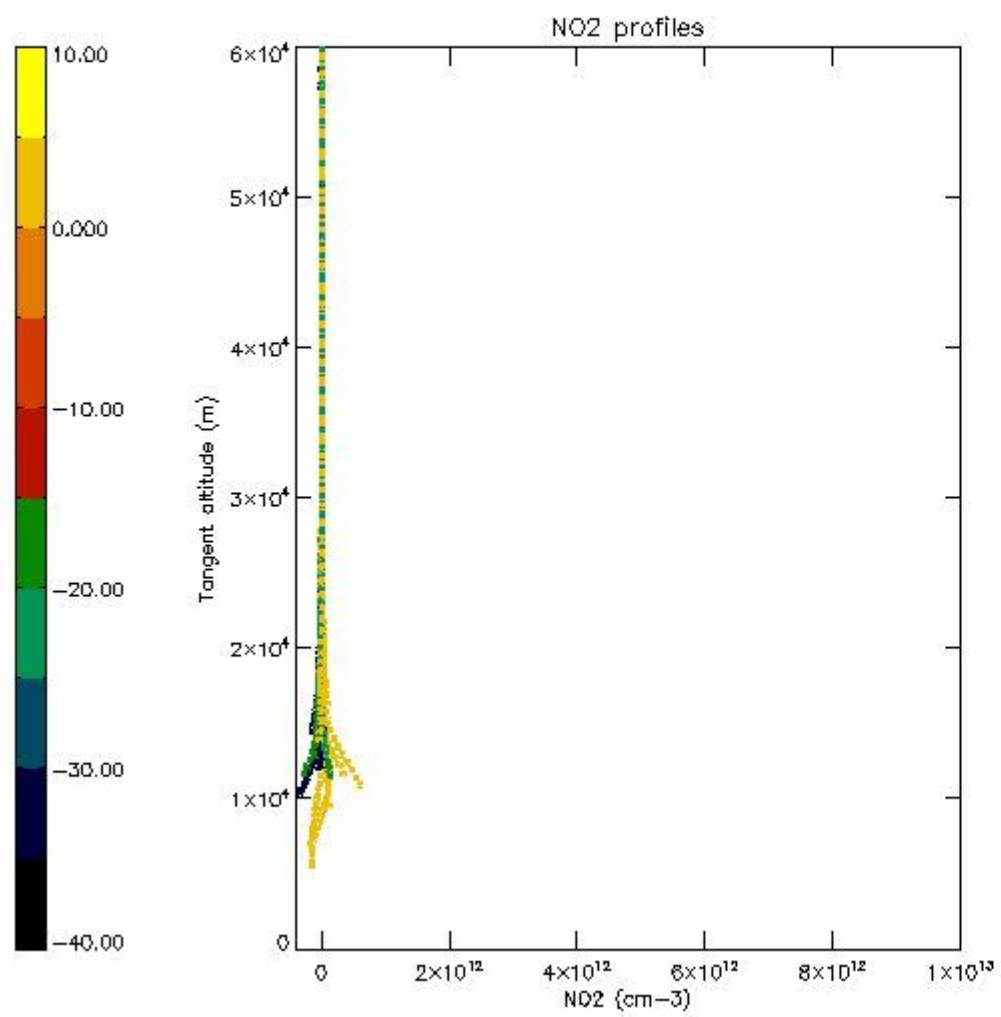
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



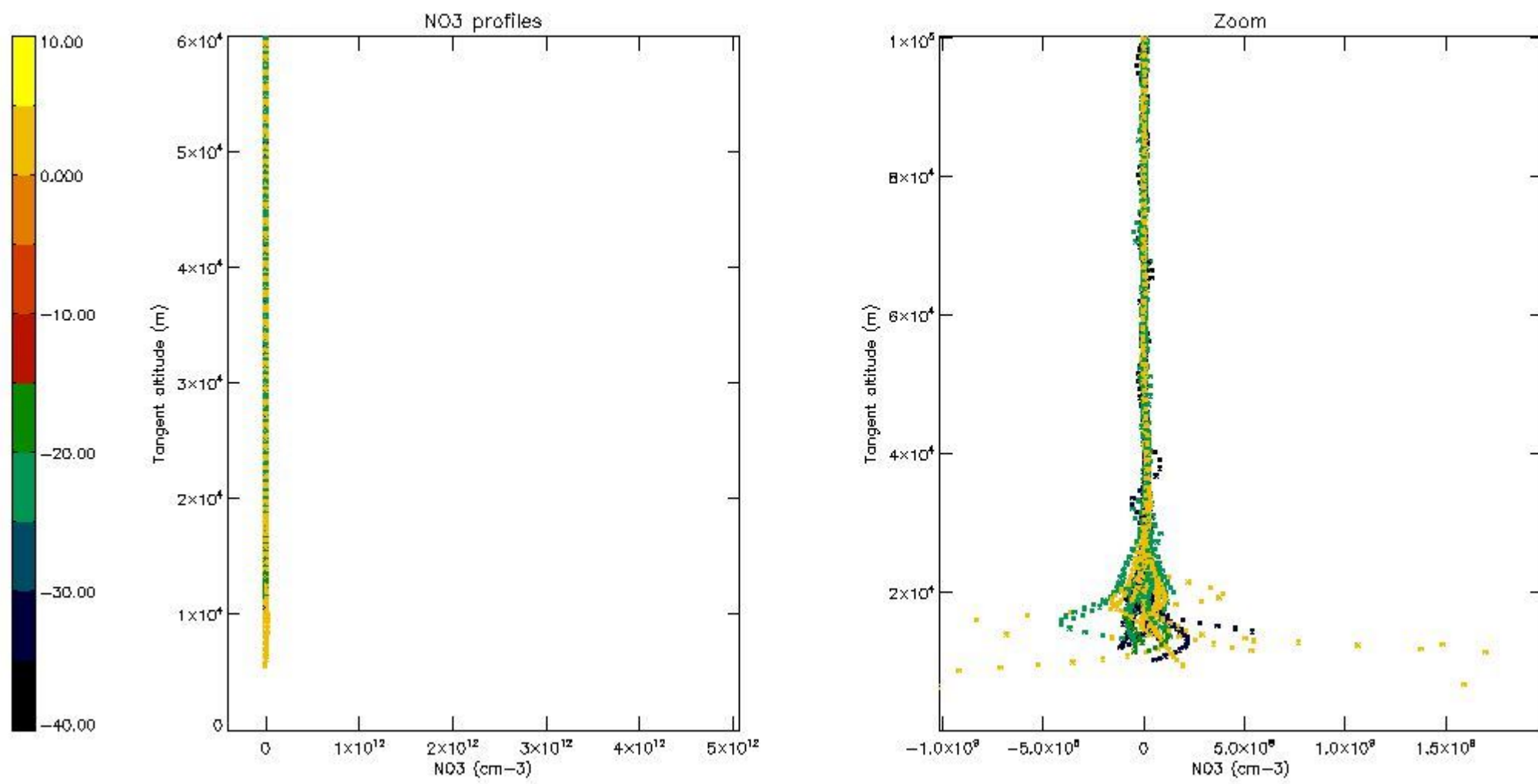
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



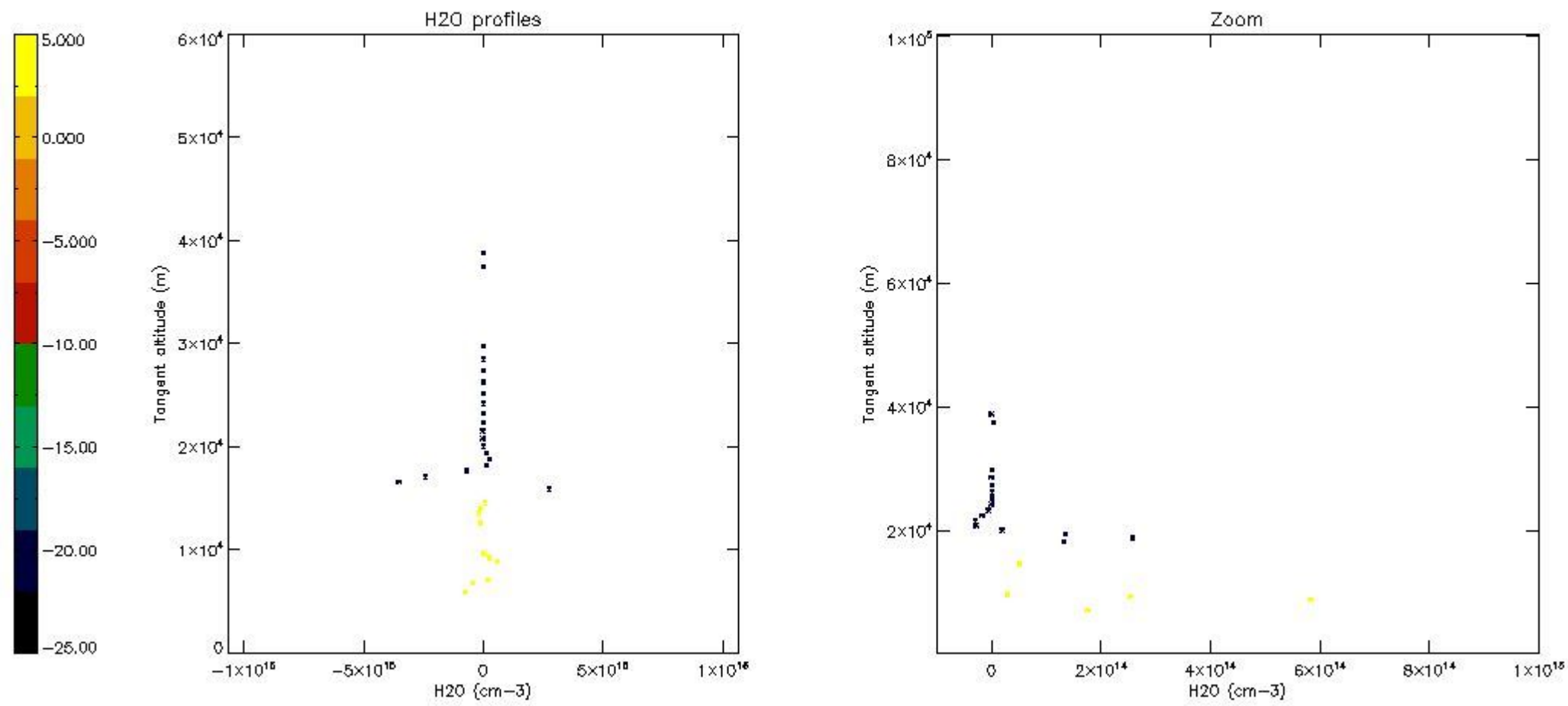
5.7 Plot NO3 profiles for all STD (dark without errors)

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	19-JUN-2011 00:01:46
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-JUN-2011 00:01:46
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-JUN-2011 00:01:46

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[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](#)

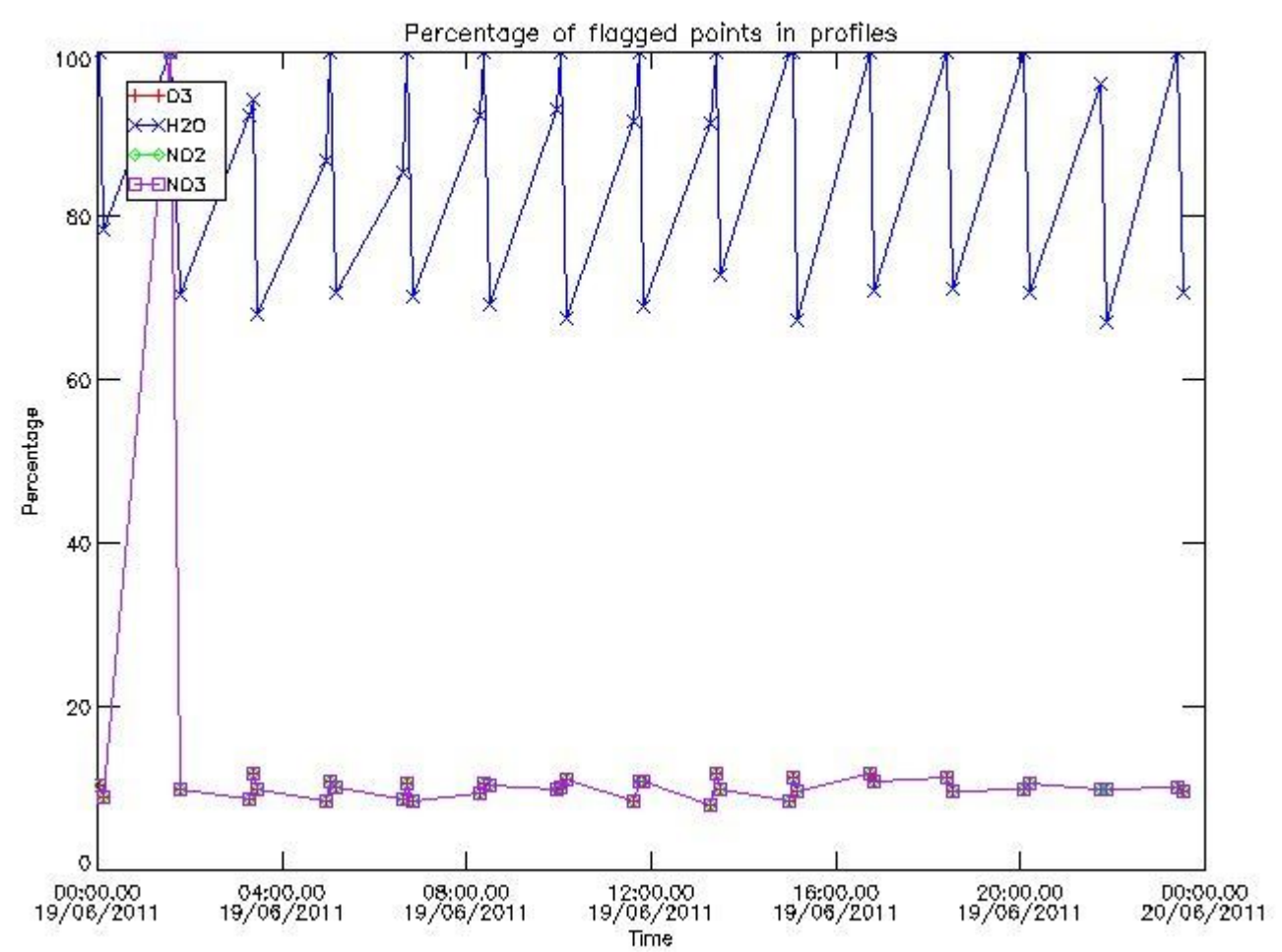
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220	GOM_NL__2PRFIN20110619_201632_000000433103_00359_48649_6164.N1	19-JUN-2011 20:16:32	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	48649	No
221	GOM_NL__2PRFIN20110619_202553_000000473103_00359_48649_6165.N1	19-JUN-2011 20:25:53	Twilight	47.000	38	20Eps Sgr	1.8360	11000.	94	48649	No
222	GOM_NL__2PRFIN20110619_202720_000000493103_00359_48649_6166.N1	19-JUN-2011 20:27:20	Twilight	48.500	116	19Del Sgr	2.7000	4100.0	97	48649	No
223	GOM_NL__2PRFIN20110619_202931_000000523103_00359_48649_6167.N1	19-JUN-2011 20:29:31	Bright	52.000	155	41Pi Sgr	2.9000	6600.0	104	48649	No
224	GOM_NL__2PRFIN20110619_203835_000000413103_00359_48649_6168.N1	19-JUN-2011 20:38:35	Bright	41.000	126	60Bet Oph	2.7700	4250.0	82	48649	No
225	GOM_NL__2PRFIN20110619_204101_000000423103_00359_48649_6169.N1	19-JUN-2011 20:41:01	Bright	41.500	59	55Alp Oph	2.0800	8900.0	83	48649	No
226	GOM_NL__2PRFIN20110619_205101_000000463103_00359_48649_6170.N1	19-JUN-2011 20:51:01	Bright	46.000	5	3Alp Lyr	0.033000	11000.	92	48649	No
227	GOM_NL__2PRFIN20110619_205242_000000393103_00359_48649_6171.N1	19-JUN-2011 20:52:42	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	48649	No
228	GOM_NL__2PRFIN20110619_210240_000000473103_00359_48649_6172.N1	19-JUN-2011 21:02:40	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	48649	No
229	GOM_NL__2PRFIN20110619_210926_000000473103_00359_48649_6173.N1	19-JUN-2011 21:09:26	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	48649	No
230	GOM_NL__2PRFIN20110619_211054_000000653103_00359_48649_6174.N1	19-JUN-2011 21:10:54	Bright	65.000	68	18Alp Cas	2.2250	4500.0	130	48649	No
231	GOM_NL__2PRFIN20110619_211623_000000413103_00359_48649_6175.N1	19-JUN-2011 21:16:23	Bright	41.000	73	57Gam1And	2.2600	13100.	82	48649	No
232	GOM_NL__2PRFIN20110619_211845_000000643103_00359_48649_6176.N1	19-JUN-2011 21:18:45	Twilight	64.000	53	43Bet And	2.0480	3300.0	128	48649	No
233	GOM_NL__2PRFIN20110619_212227_000000493103_00359_48649_6177.N1	19-JUN-2011 21:22:27	Twilight	49.000	50	13Alp Ari	2.0070	4250.0	98	48649	No
234	GOM_NL__2PRFIN20110619_214459_000000513103_00359_48649_6178.N1	19-JUN-2011 21:44:59	Dark	51.000	84	Alp Phe	2.3970	4500.0	102	48649	No
235	GOM_NL__2PRFIN20110619_215121_000000573103_00360_48650_6195.N1	19-JUN-2011 21:51:21	Dark	56.500	63	Bet Gru	2.1500	2800.0	113	48650	No
236	GOM_NL__2PRFIN20110619_215323_000000513103_00360_48650_6196.N1	19-JUN-2011 21:53:23	Straylight	51.000	31	Alp Gru	1.7340	15200.	102	48650	No
237	GOM_NL__2PRFIN20110619_215646_000000413103_00360_48650_6197.N1	19-JUN-2011 21:56:46	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	48650	No
238	GOM_NL__2PRFIN20110619_220608_000000493103_00360_48650_6198.N1	19-JUN-2011 22:06:08	Twilight	49.000	38	20Eps Sgr	1.8360	11000.	98	48650	No
239	GOM_NL__2PRFIN20110619_220734_000000513103_00360_48650_6199.N1	19-JUN-2011 22:07:34	Twilight	50.500	116	19Del Sgr	2.7000	4100.0	101	48650	No
240	GOM_NL__2PRFIN20110619_220945_000000533103_00360_48650_6200.N1	19-JUN-2011 22:09:45	Bright	52.500	155	41Pi Sgr	2.9000	6600.0	105	48650	No
241	GOM_NL__2PRFIN20110619_221849_000000413103_00360_48650_6201.N1	19-JUN-2011 22:18:49	Bright	41.000	126	60Bet Oph	2.7700	4250.0	82	48650	No
242	GOM_NL__2PRFIN20110619_222115_000000413103_00360_48650_6202.N1	19-JUN-2011 22:21:15	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	48650	No
243	GOM_NL__2PRFIN20110619_223114_000000453103_00360_48650_6203.N1	19-JUN-2011 22:31:14	Bright	45.000	5	3Alp Lyr	0.033000	11000.	90	48650	No
244	GOM_NL__2PRFIN20110619_223255_000000403103_00360_48650_6204.N1	19-JUN-2011 22:32:55	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	48650	No
245	GOM_NL__2PRFIN20110619_224253_000000453103_00360_48650_6205.N1	19-JUN-2011 22:42:53	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	48650	No
246	GOM_NL__2PRFIN20110619_224939_000000663103_00360_48650_6206.N1	19-JUN-2011 22:49:39	Bright	66.000	74	11Bet Cas	2.2680	6600.0	132	48650	No
247	GOM_NL__2PRFIN20110619_225108_000000653103_00360_48650_6207.N1	19-JUN-2011 22:51:08	Bright	65.000	68	18Alp Cas	2.2250	4500.0	130	48650	No
248	GOM_NL__2PRFIN20110619_225637_000000453103_00360_48650_6208.N1	19-JUN-2011 22:56:37	Bright	44.500	73	57Gam1And	2.2600	13100.	89	48650	No
249	GOM_NL__2PRFIN20110619_225859_000000703103_00360_48650_6209.N1	19-JUN-2011 22:58:59	Twilight	70.000	53	43Bet And	2.0480	3300.0	140	48650	No
250	GOM_NL__2PRFIN20110619_230242_000000593103_00360_48650_6210.N1	19-JUN-2011 23:02:42	Twilight	59.000	50	13Alp Ari	2.0070	4250.0	118	48650	No
251	GOM_NL__2PRFIN20110619_232513_000000503103_00360_48650_6211.N1	19-JUN-2011 23:25:13	Dark	50.000	84	Alp Phe	2.3970	4500.0	100	48650	No
252	GOM_NL__2PRFIN20110619_233136_000000533103_00361_48651_6205.N1	19-JUN-2011 23:31:36	Dark	53.000	63	Bet Gru	2.1500	2800.0	106	48651	No
253	GOM_NL__2PRFIN20110619_233338_000000503103_00361_48651_6206.N1	19-JUN-2011 23:33:38	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	48651	No
254	GOM_NL__2PRFIN20110619_233701_000000423103_00361_48651_6207.N1	19-JUN-2011 23:37:01	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	48651	No
255	GOM_NL__2PRFIN20110619_234622_000000483103_00361_48651_6208.N1	19-JUN-2011 23:46:22	Twilight	48.000	38	20Eps Sgr	1.8360	11000.	96	48651	No
256	GOM_NL__2PRFIN20110619_234748_000000503103_00361_48651_6209.N1	19-JUN-2011 23:47:48	Twilight	50.000	116	19Del Sgr	2.7000	4100.0	100	48651	No
257	GOM_NL__2PRFIN20110619_234959_000000533103_00361_48651_6210.N1	19-JUN-2011 23:49:59	Bright	53.000	155	41Pi Sgr	2.9000	6600.0	106	48651	No
258	GOM_NL__2PRFIN20110619_235903_000000413103_00361_48651_6211.N1	19-JUN-2011 23:59:03	Bright	41.000	126	60Bet Oph	2.7700	4250.0	82	48651	No

3. Quality information per product

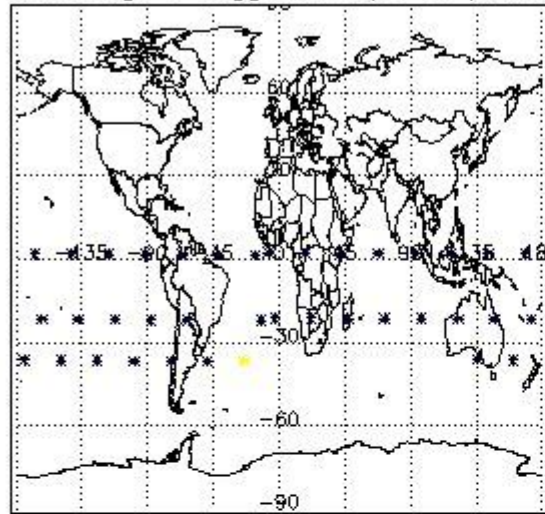
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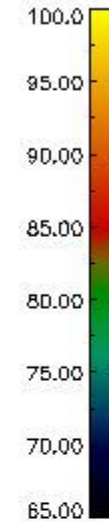
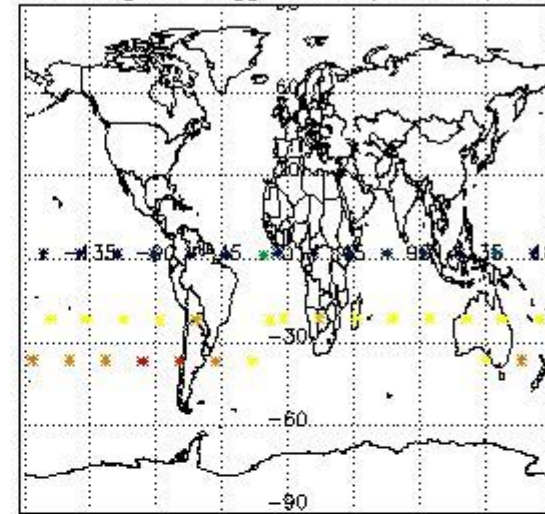


3.2 Plot quality information per product (world map)

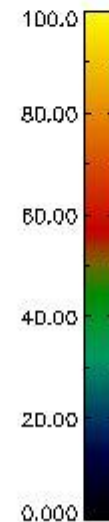
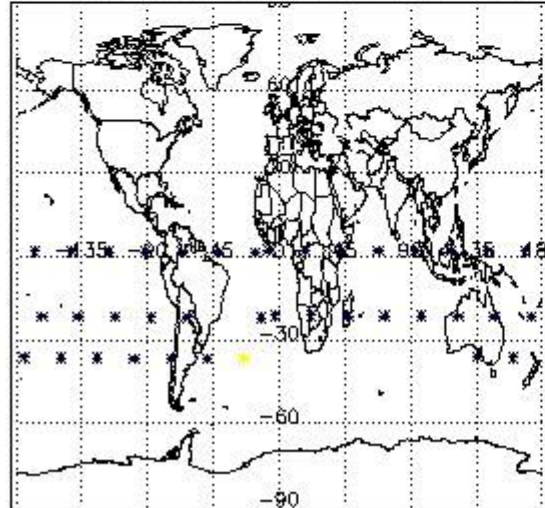
Percentage of flagged data per O3 profile



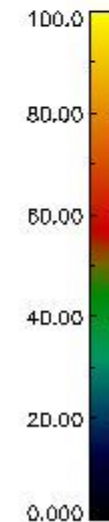
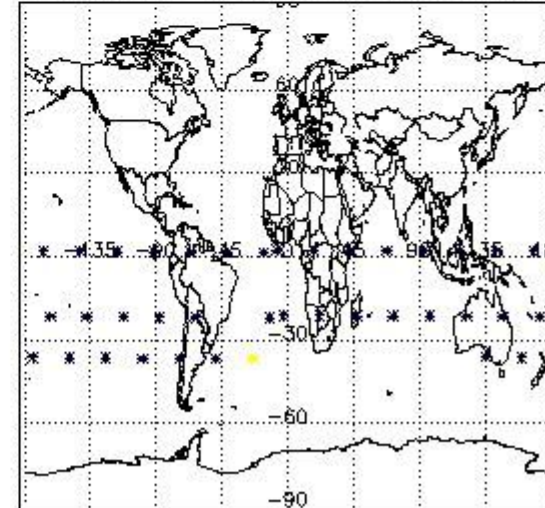
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

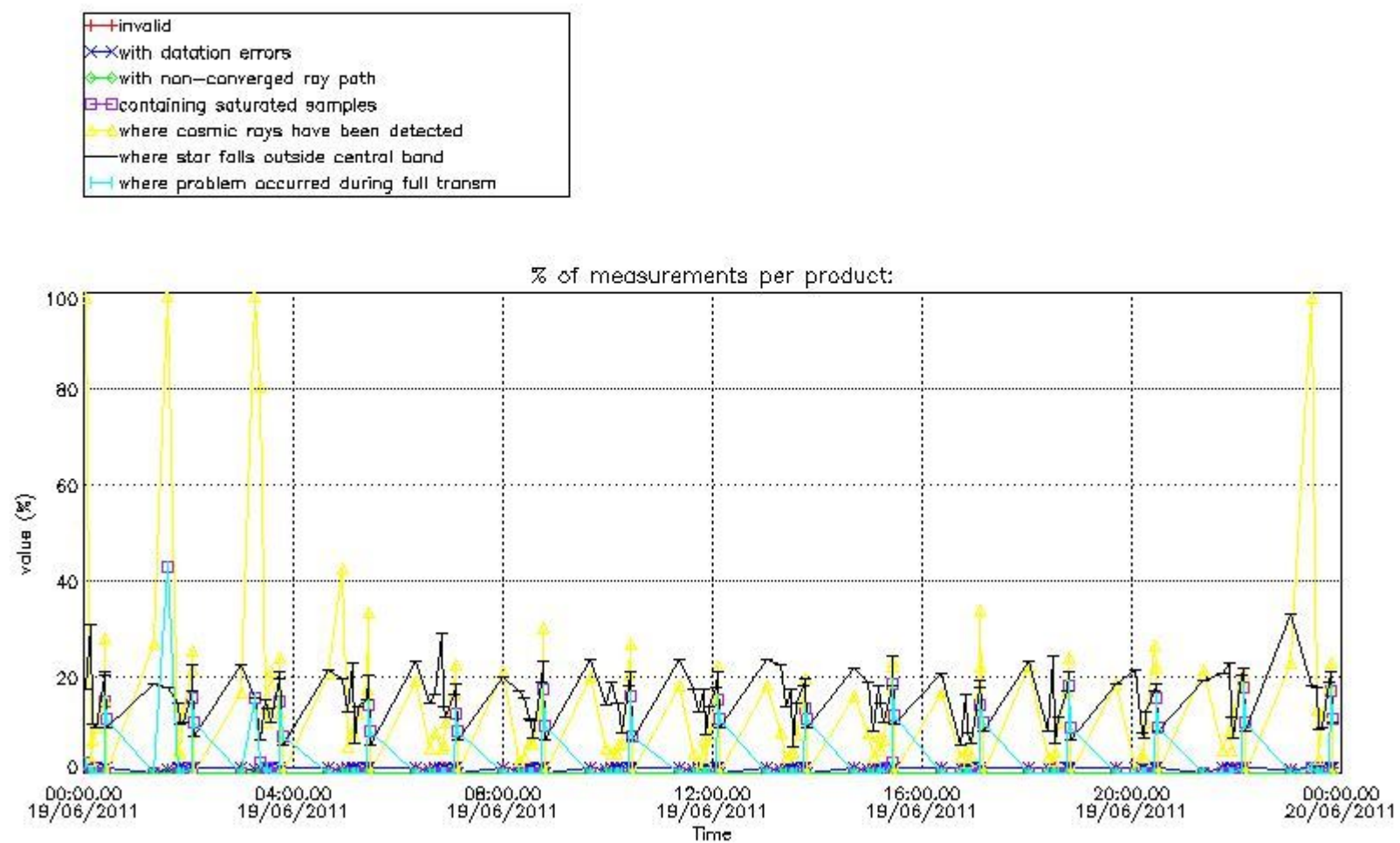


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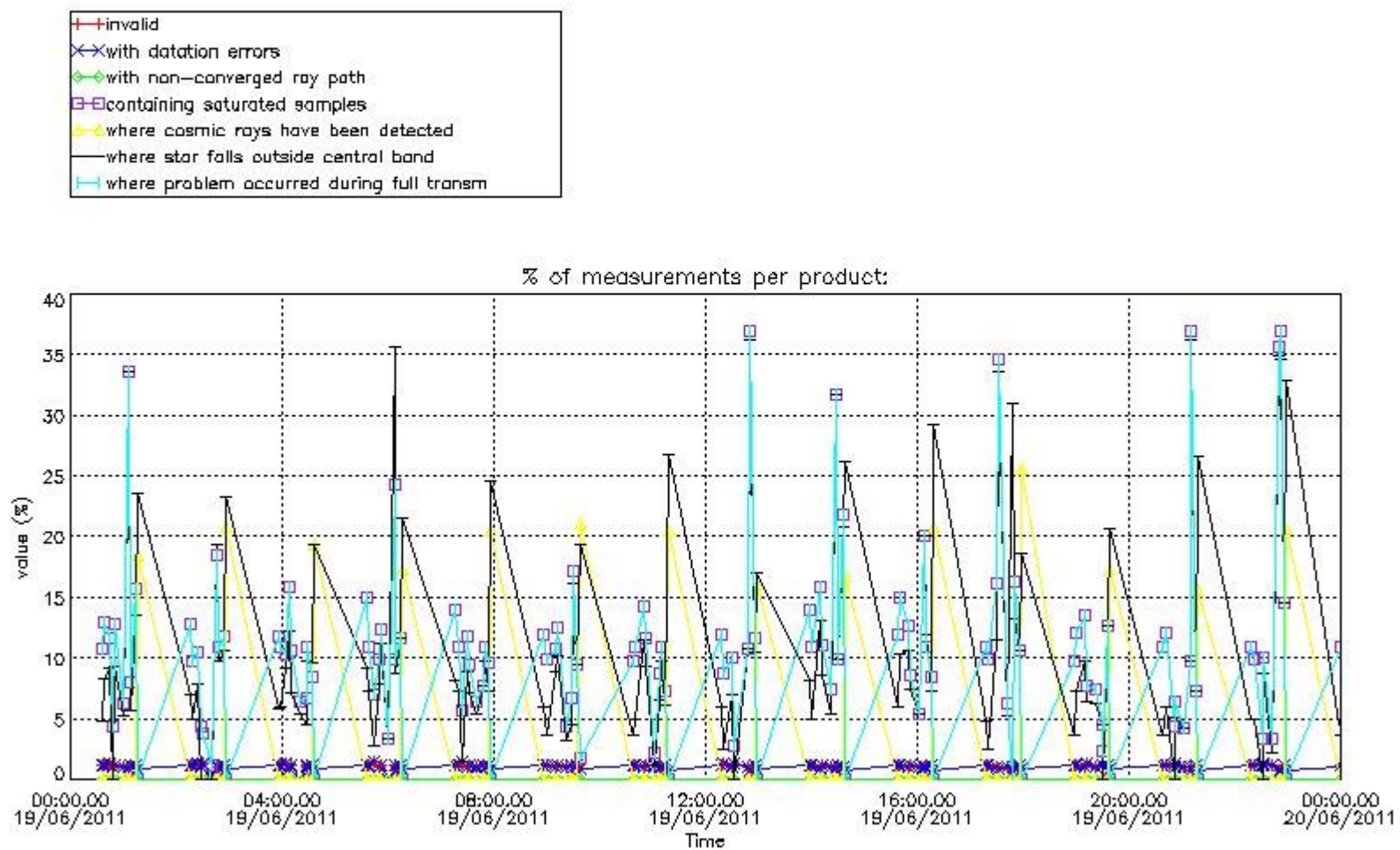
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4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes

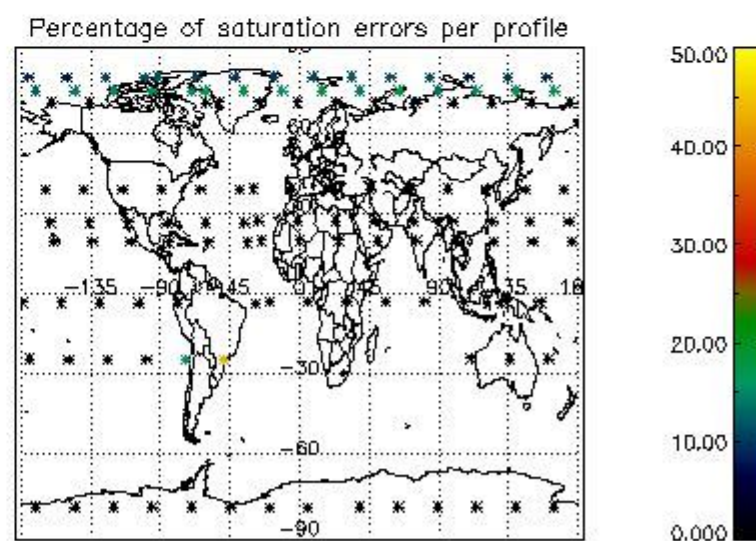
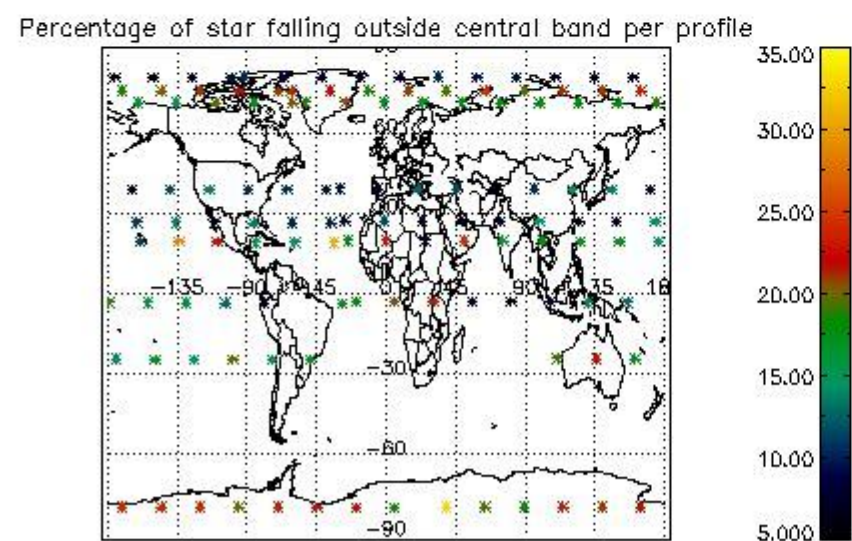
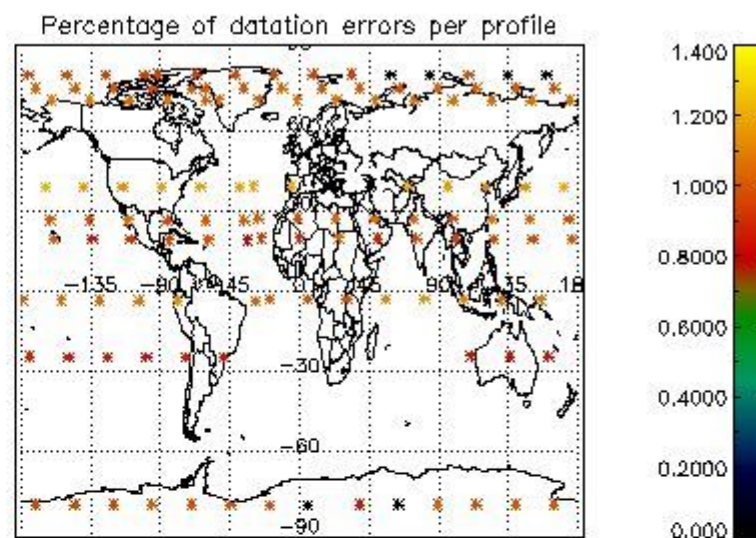
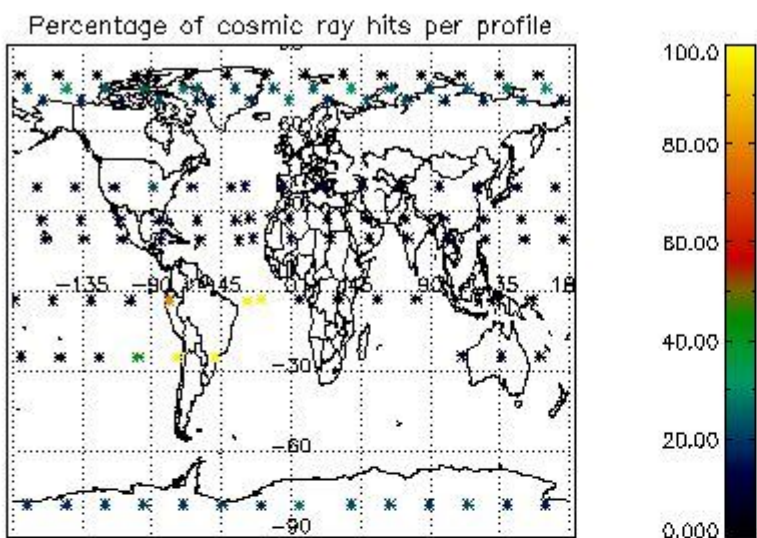


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

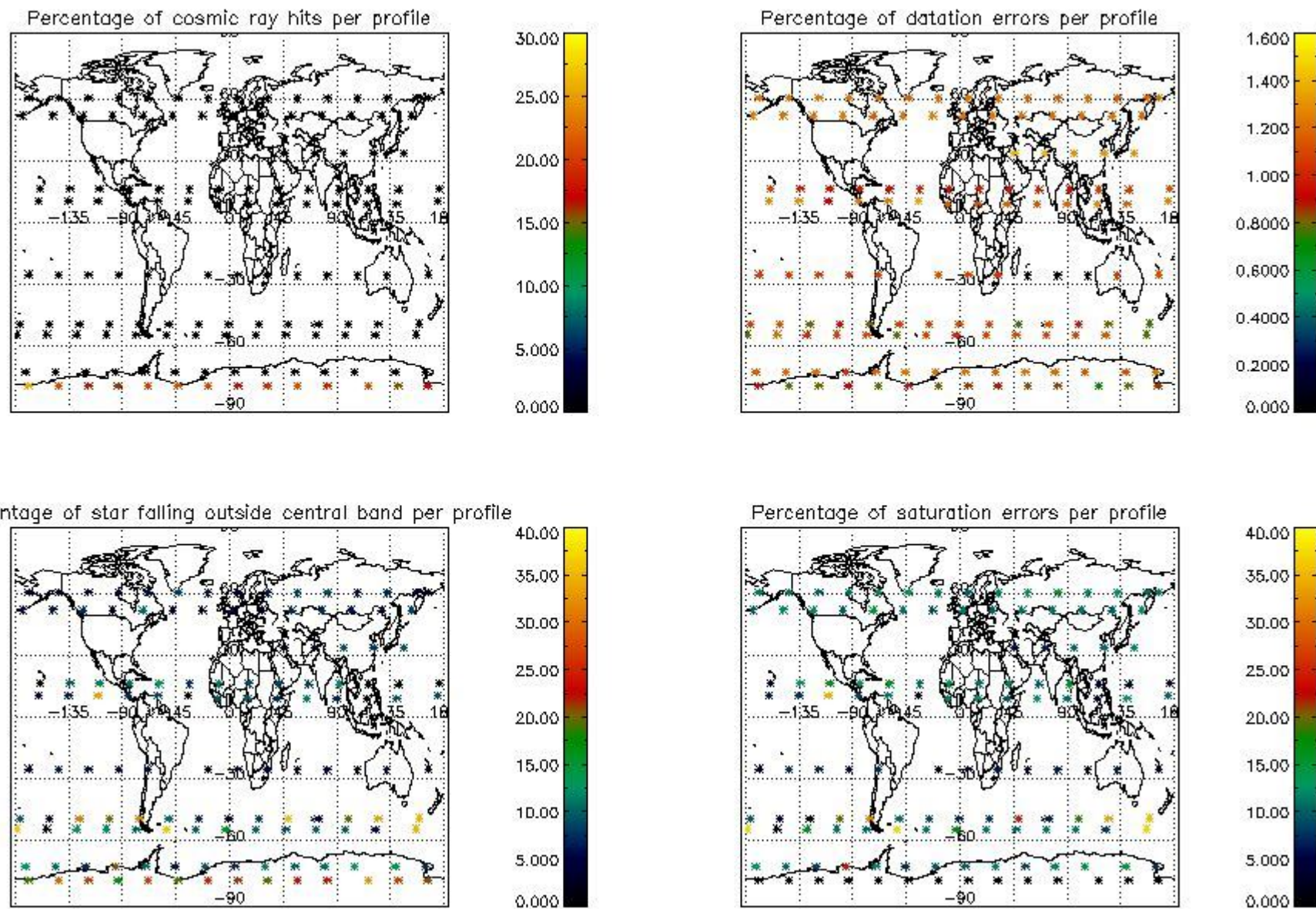


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

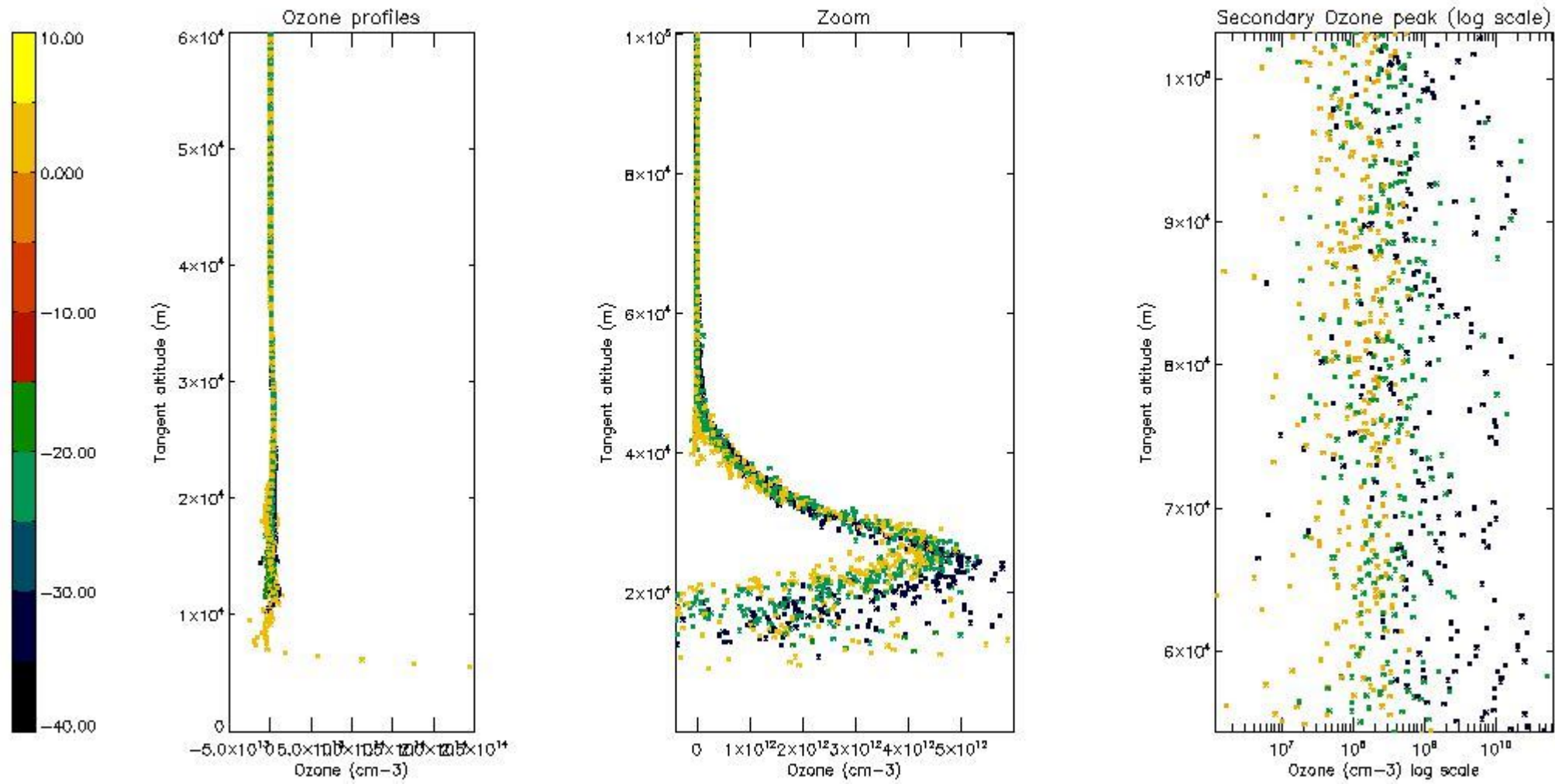
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	16
STD < 20	4

STD < 10	2
STD < 5	0

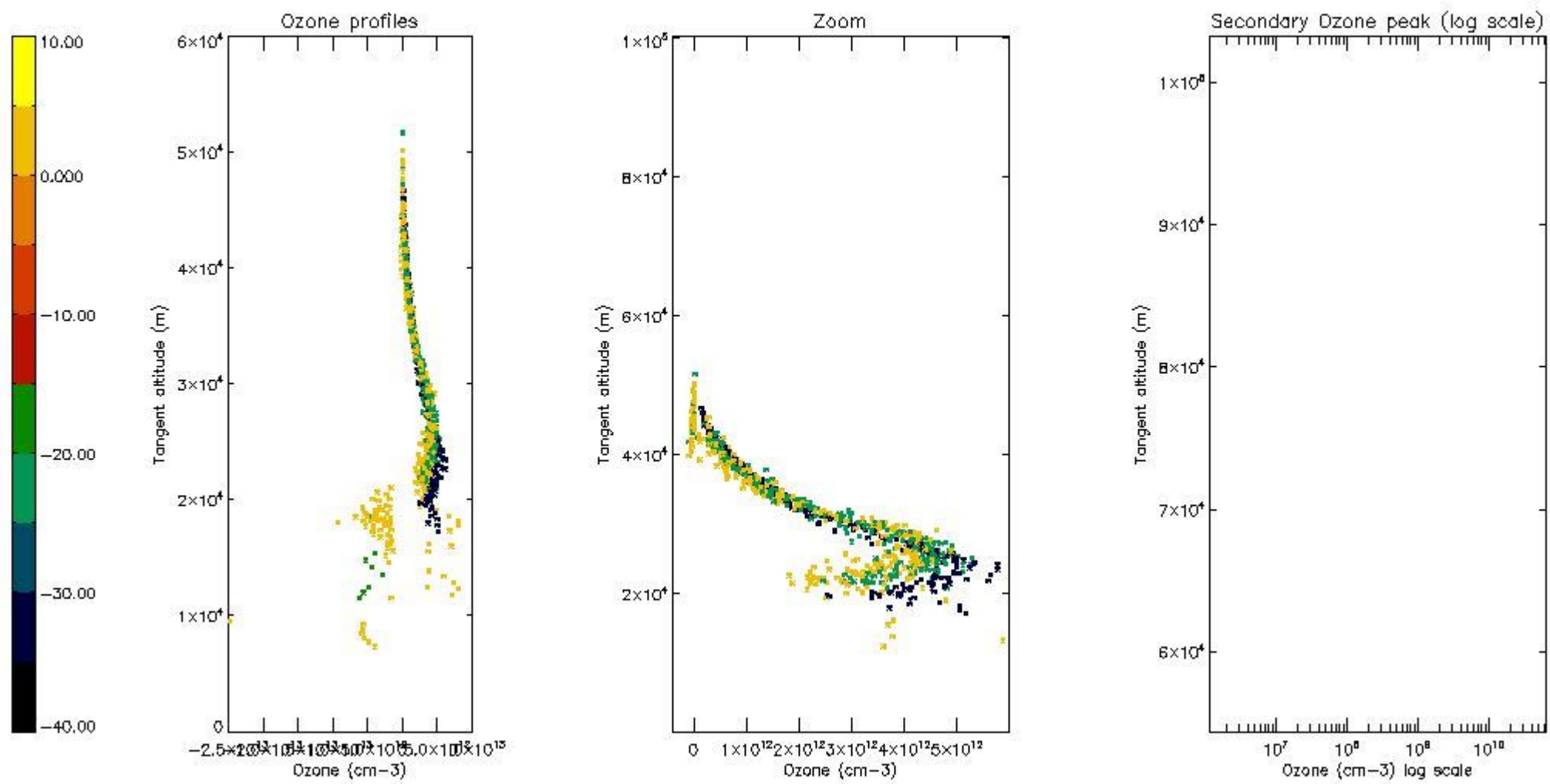
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



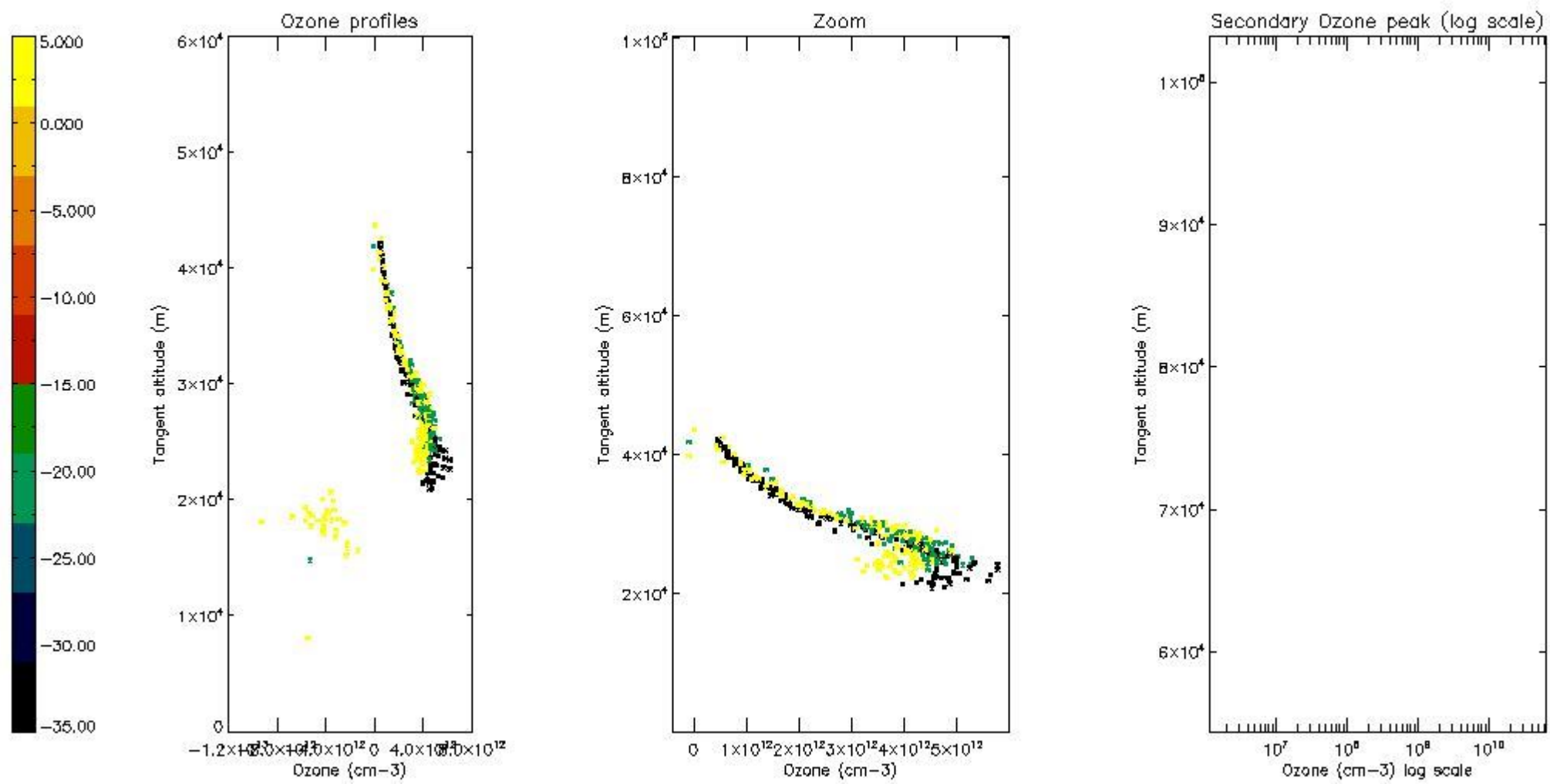
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



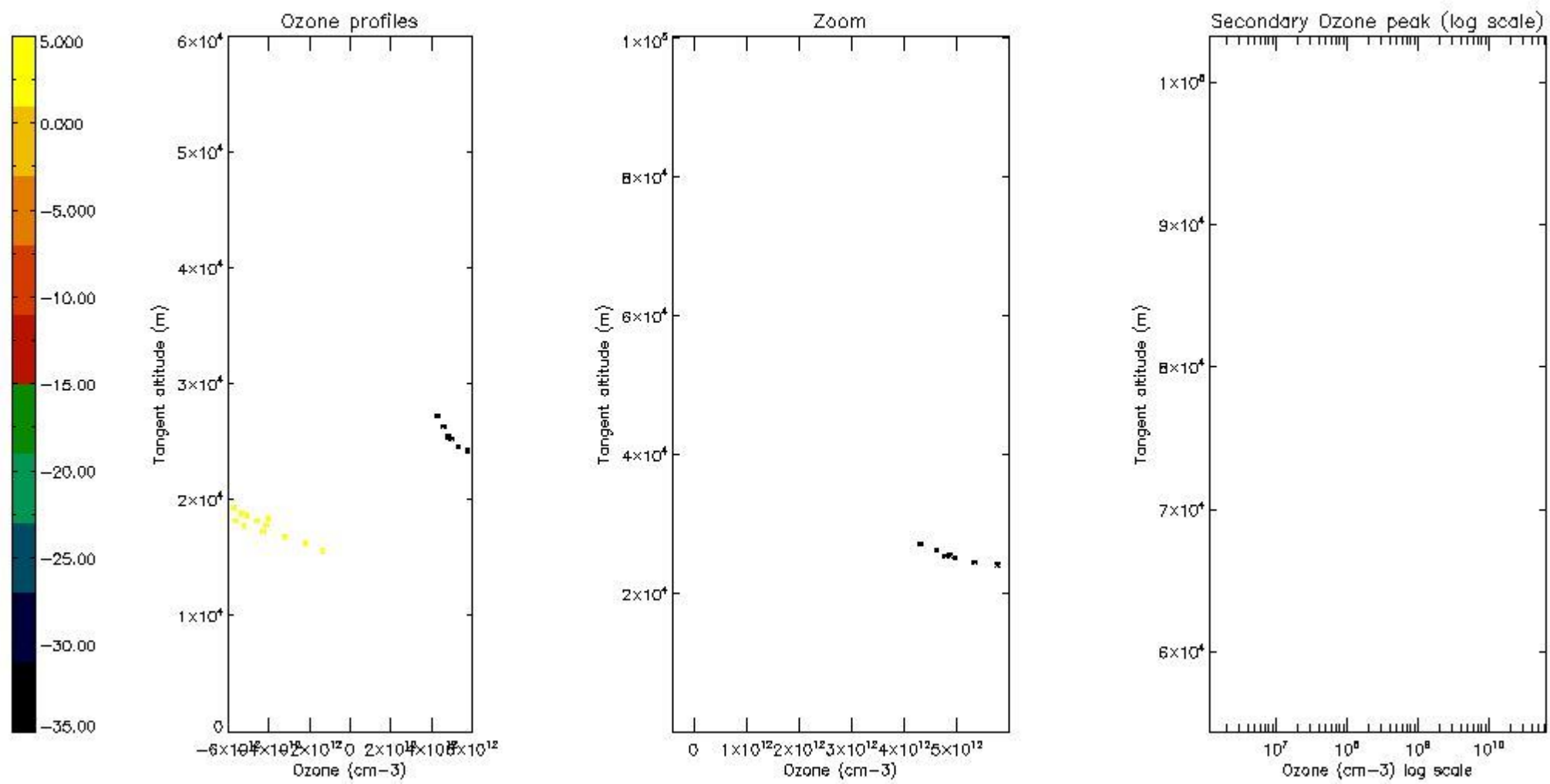
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



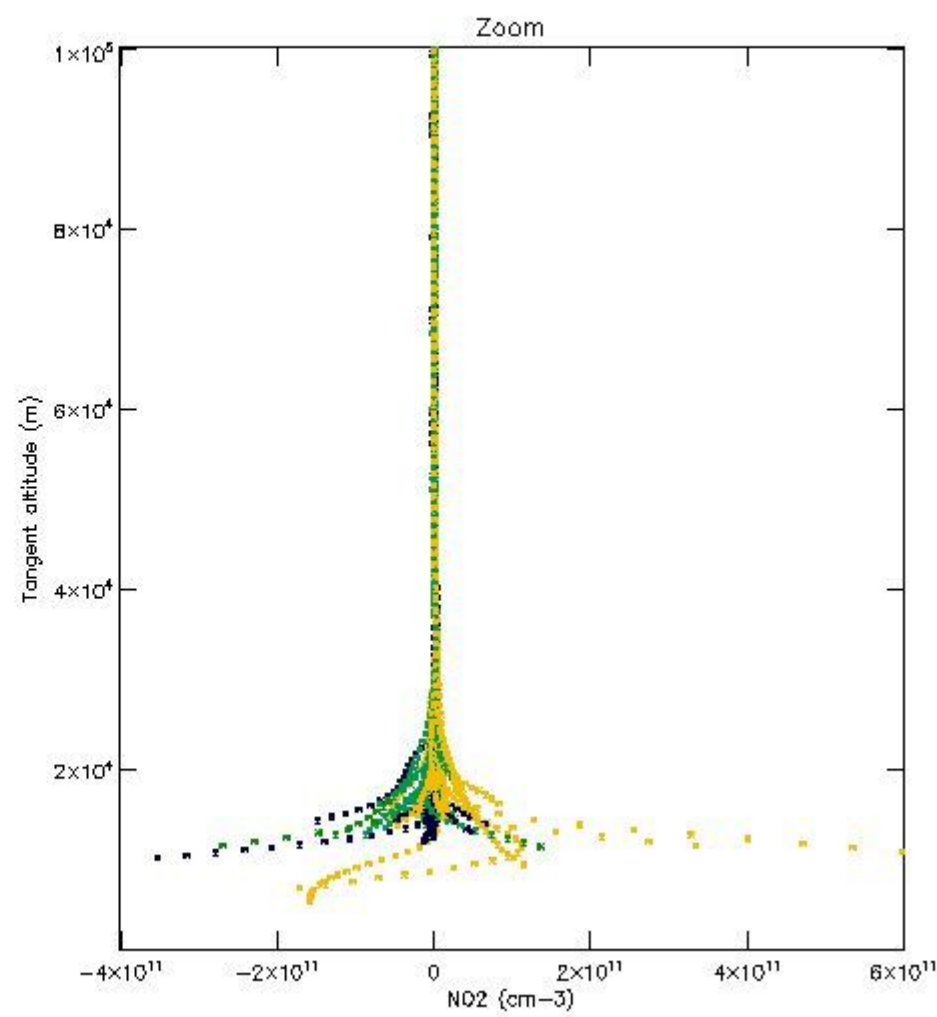
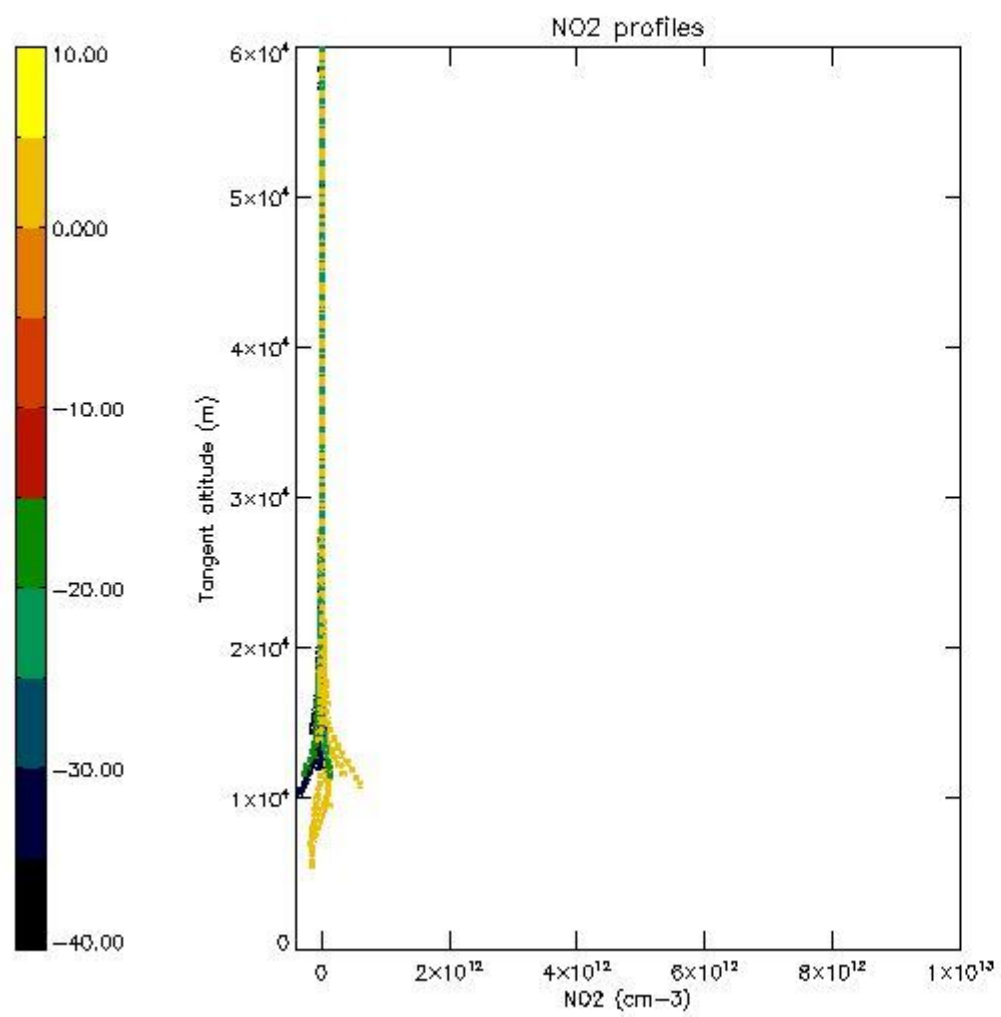
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



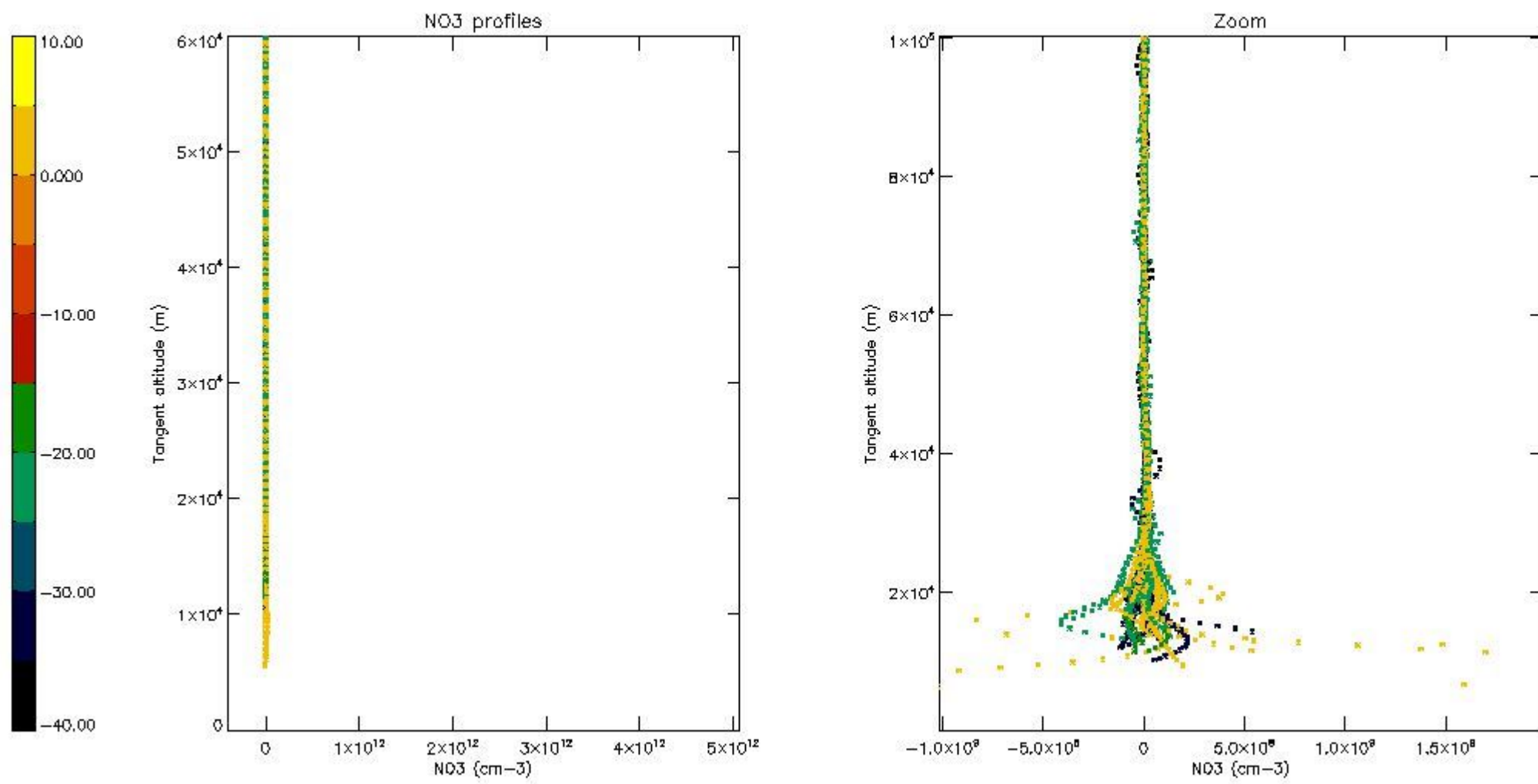
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



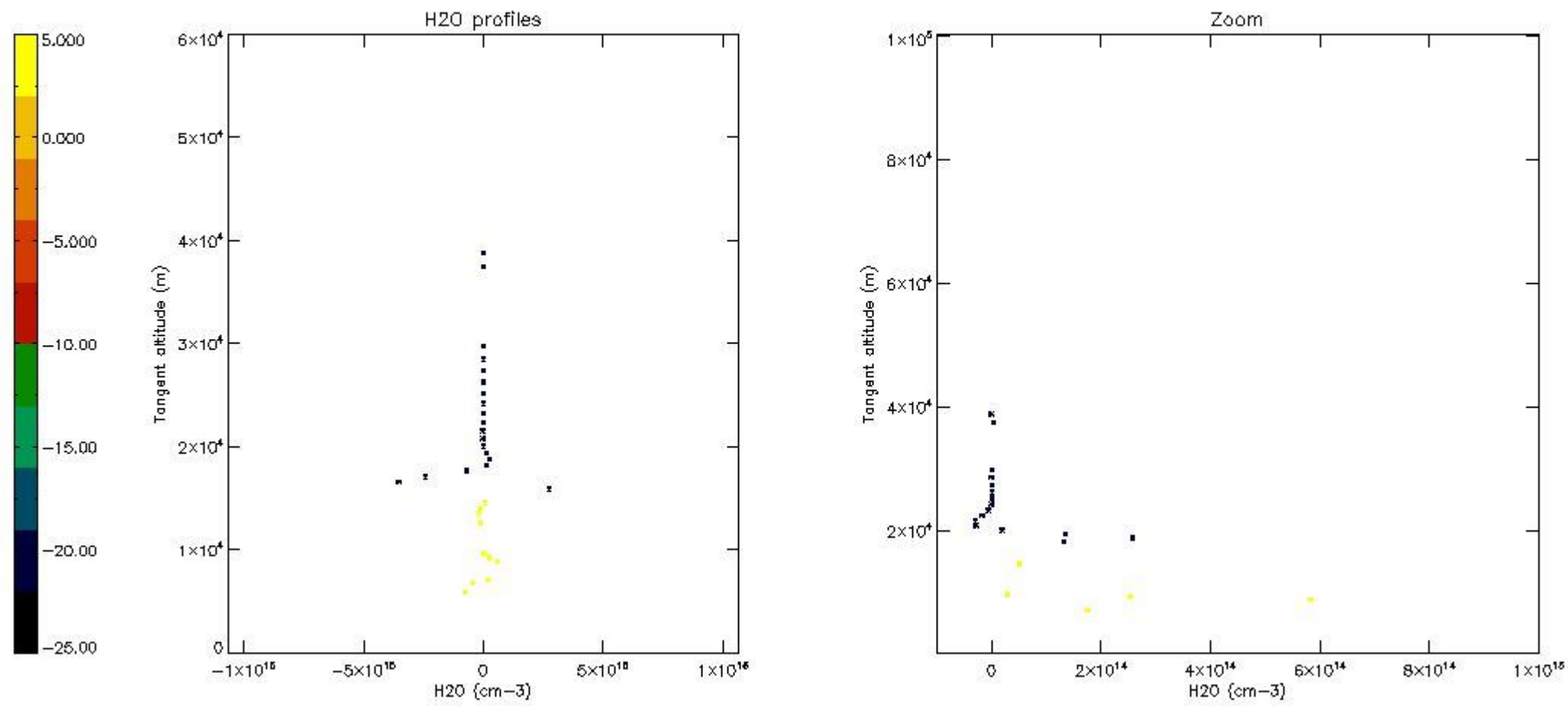
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

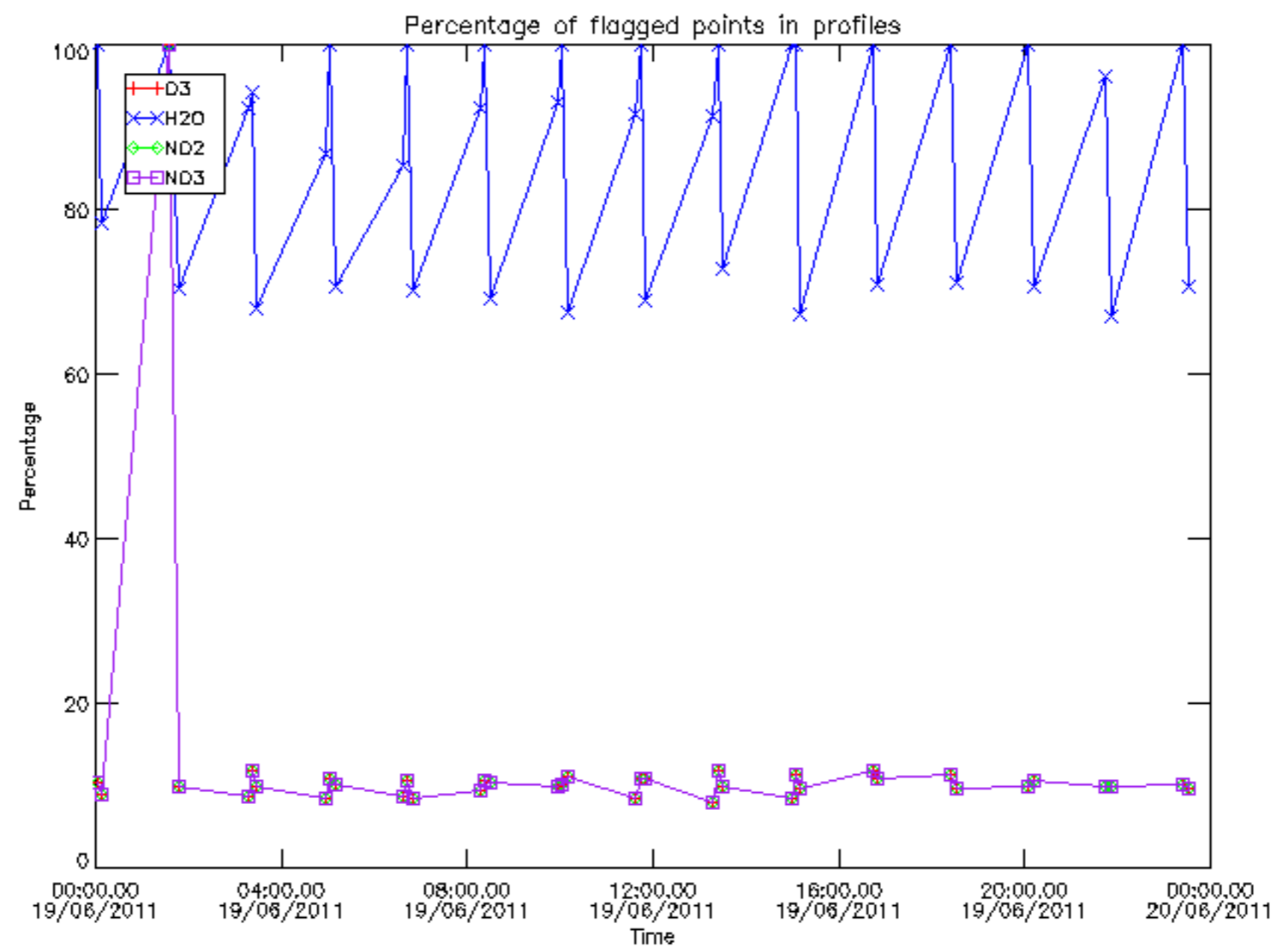
The colorbar represents the latitude.



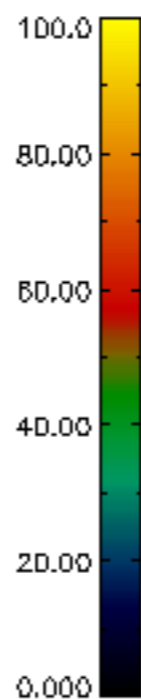
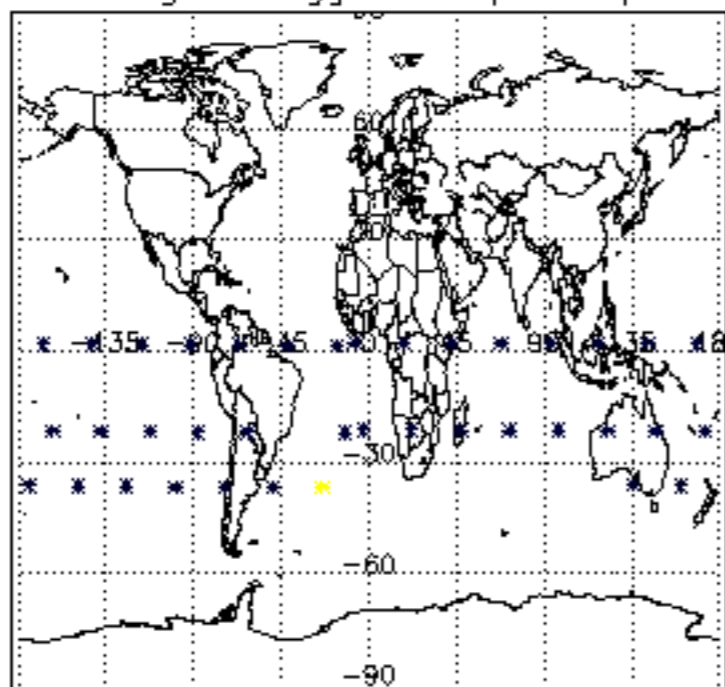
6. Auxiliary Data Files used for the production reported in section 2

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.

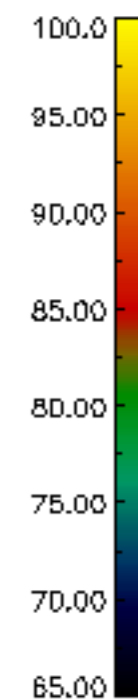
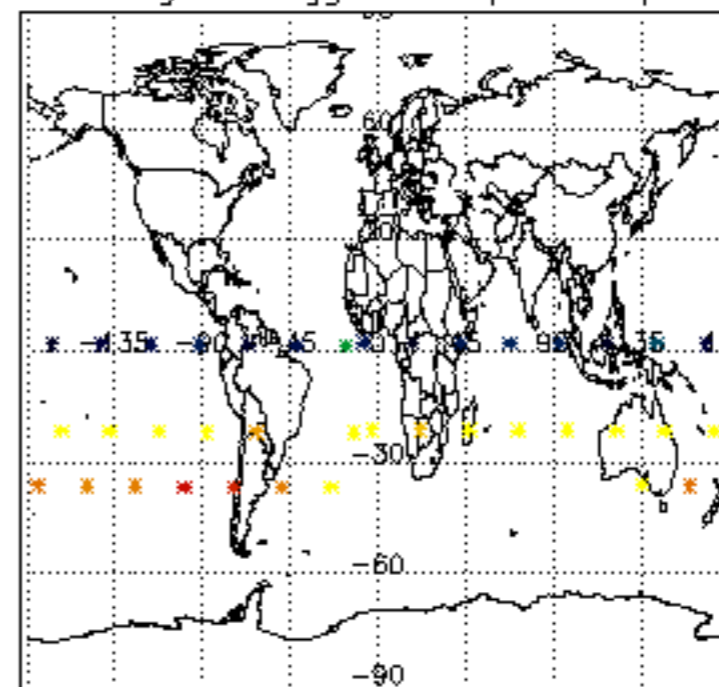
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	19-JUN-2011 00:01:46
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-JUN-2011 00:01:46
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-JUN-2011 00:01:46



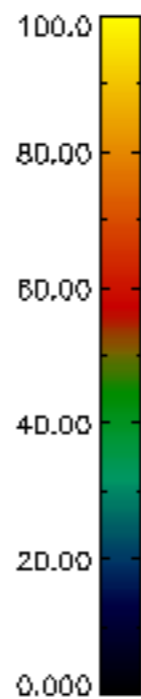
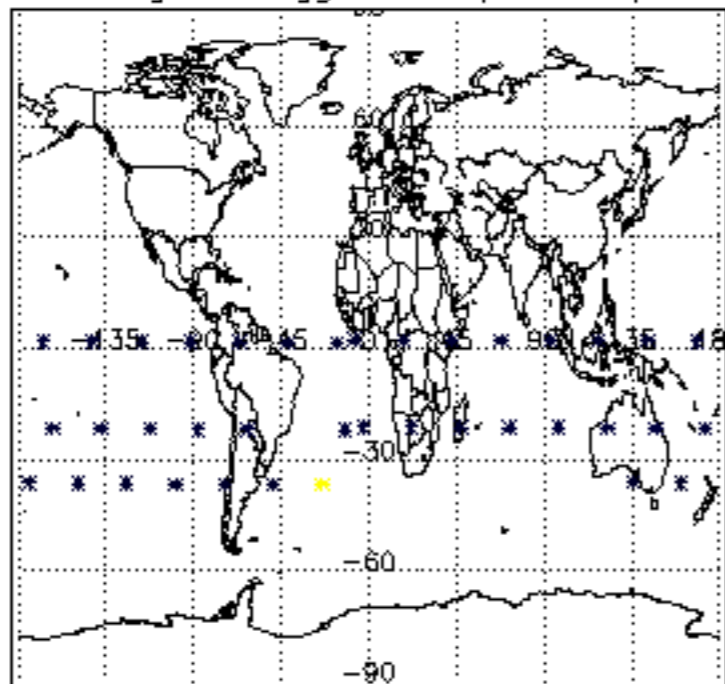
Percentage of flagged data per D3 profile



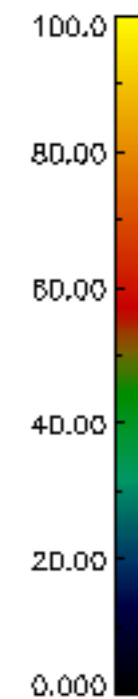
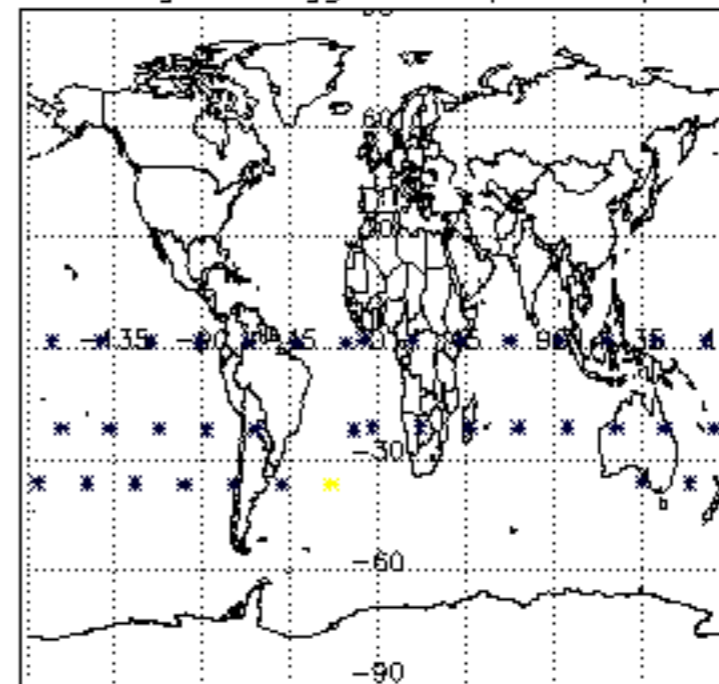
Percentage of flagged data per H2O profile

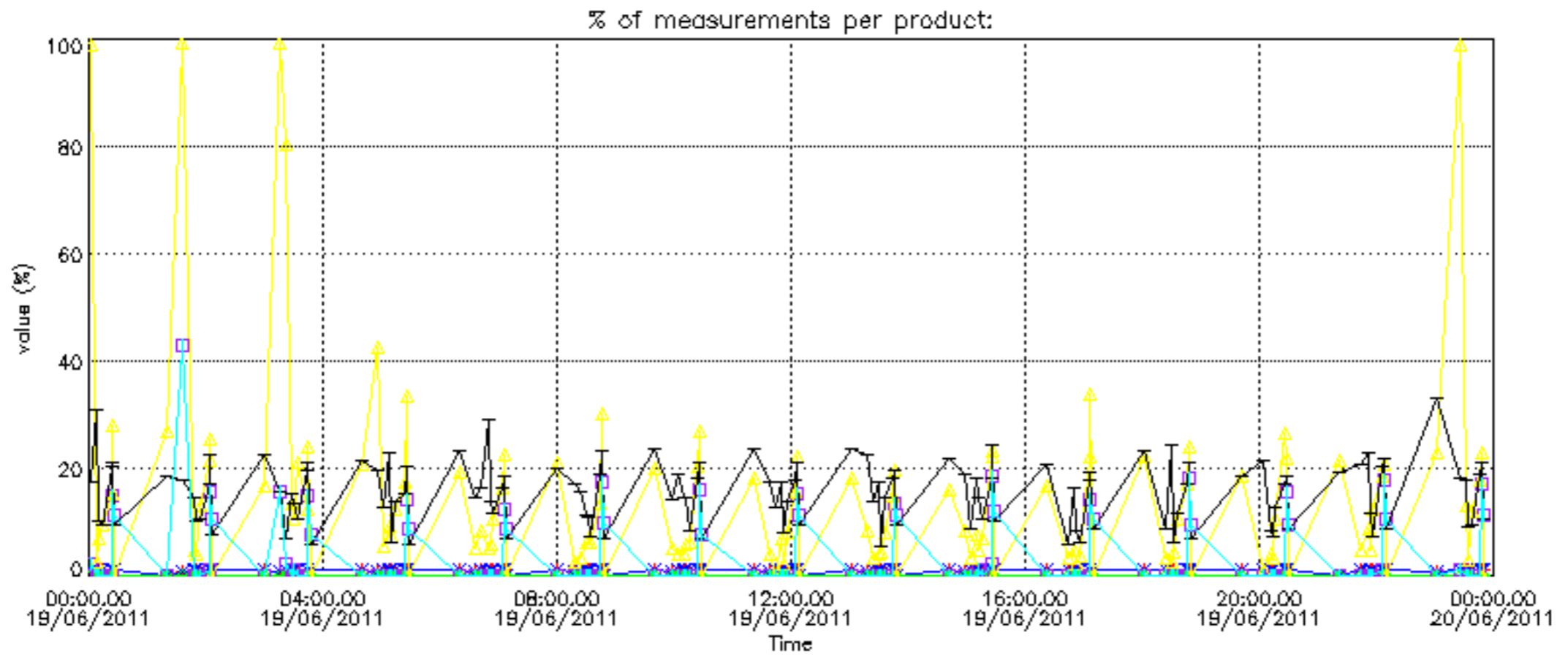


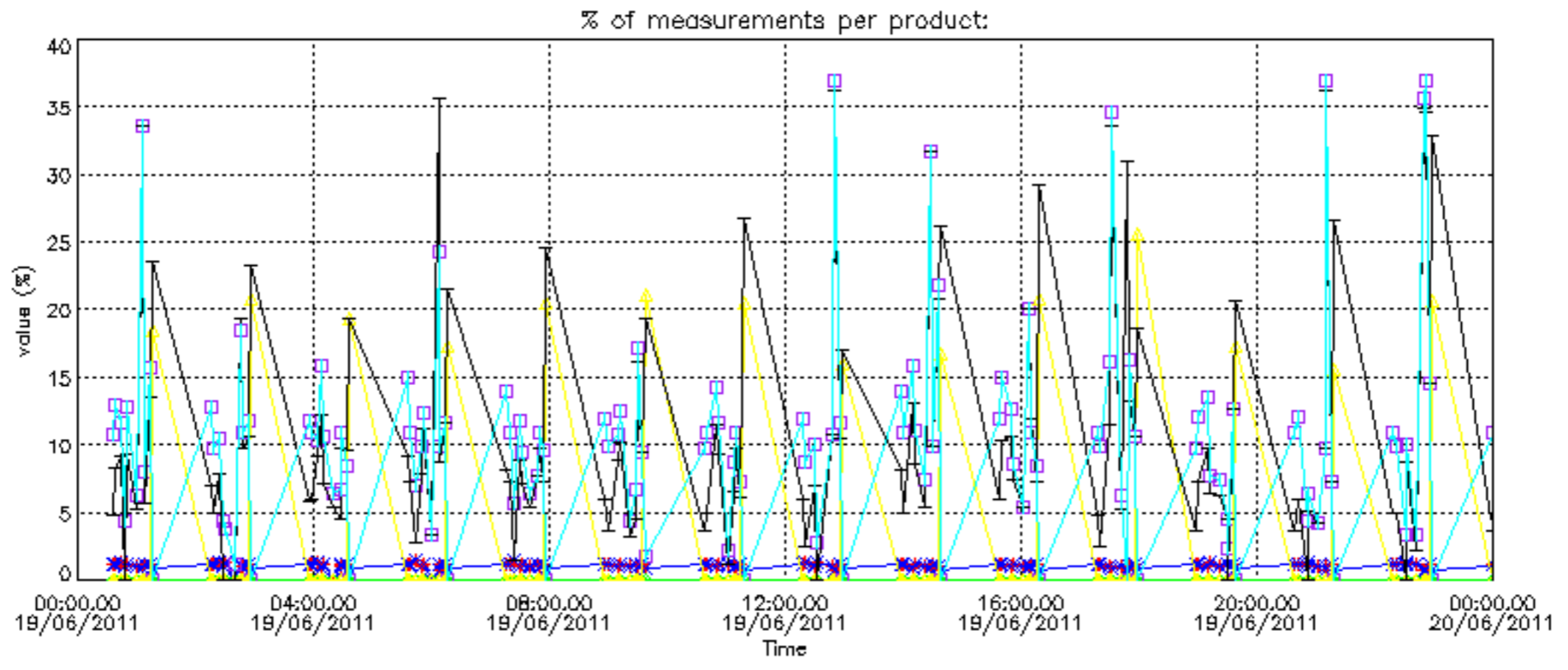
Percentage of flagged data per NO2 profile



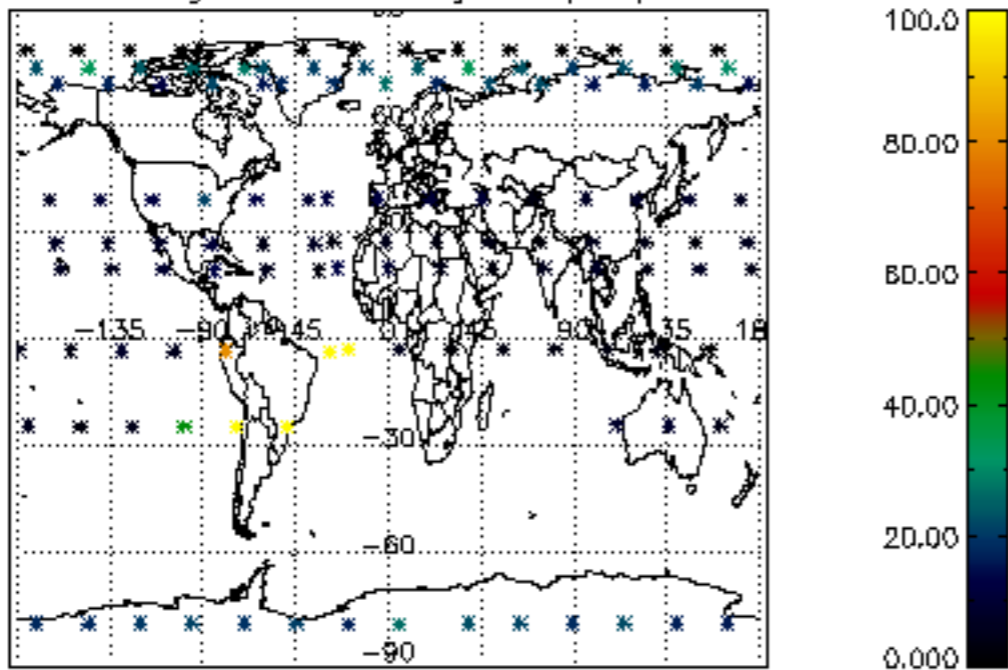
Percentage of flagged data per NO3 profile



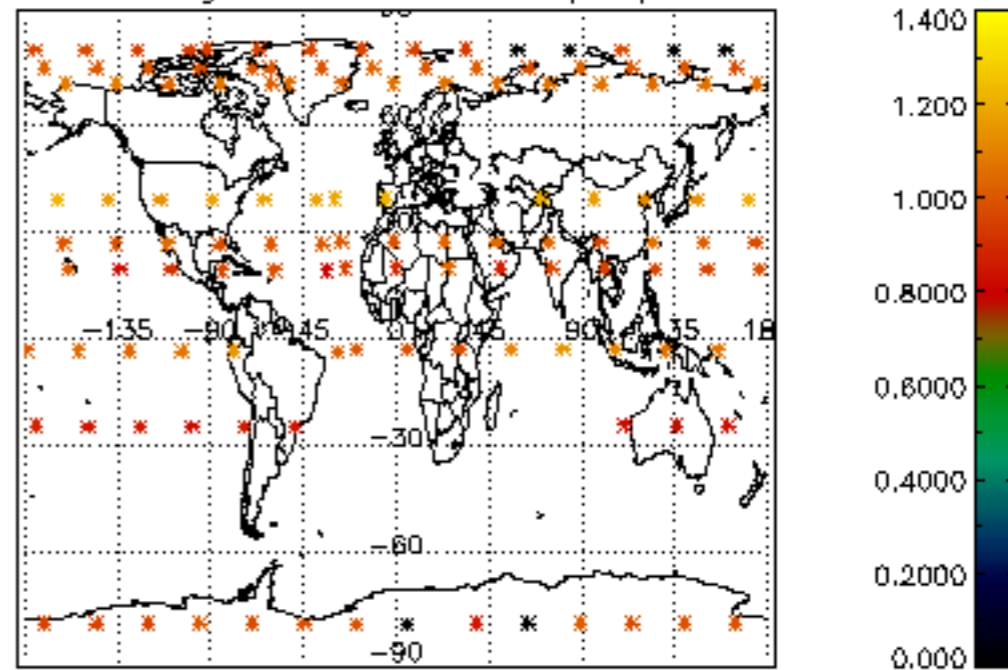




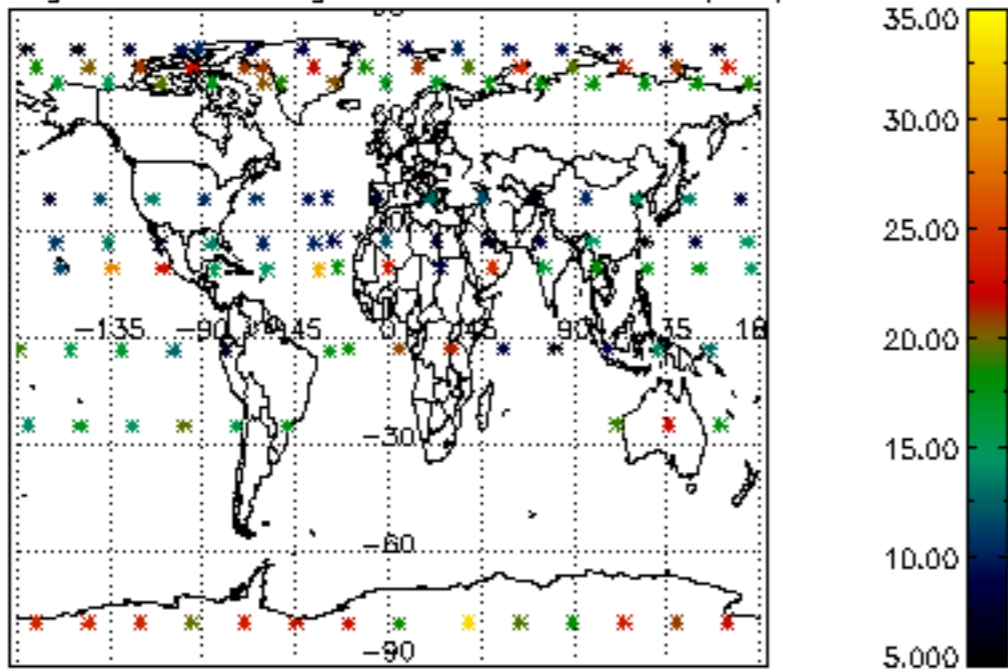
Percentage of cosmic ray hits per profile



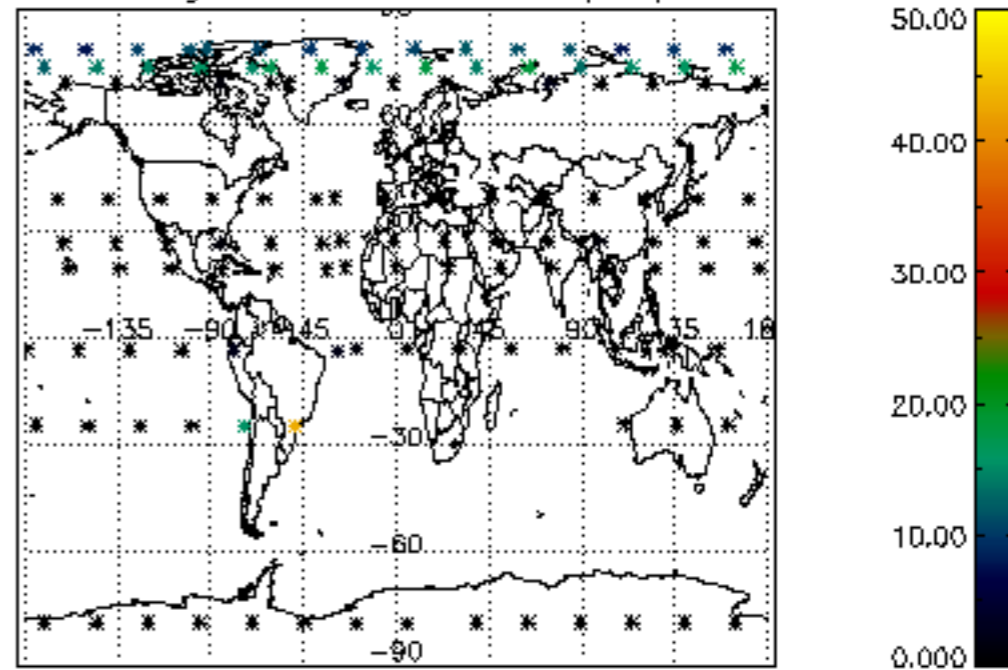
Percentage of datation errors per profile



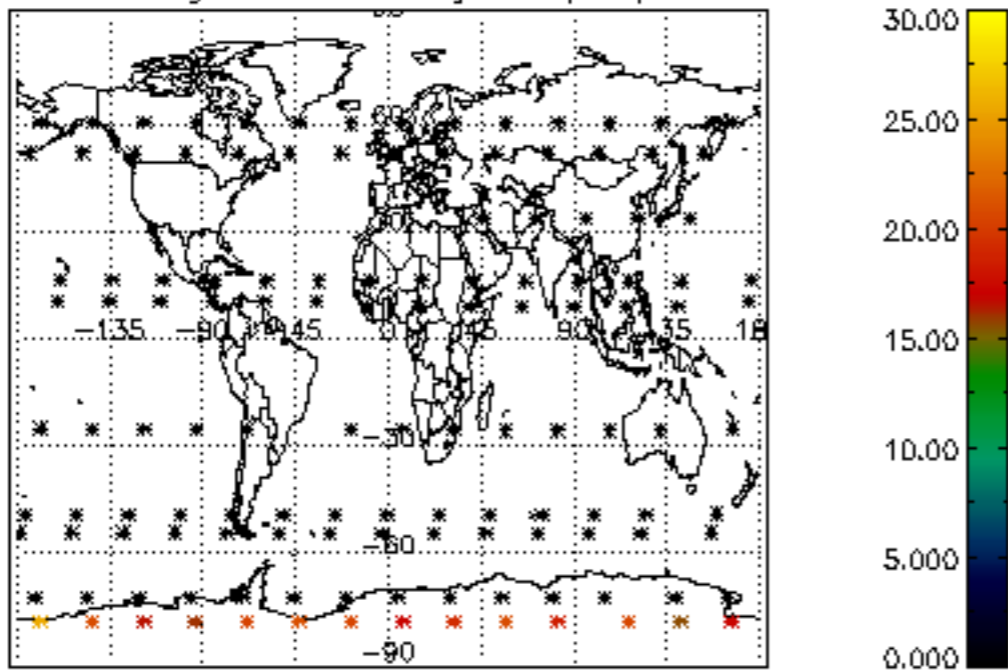
Percentage of star falling outside central band per profile



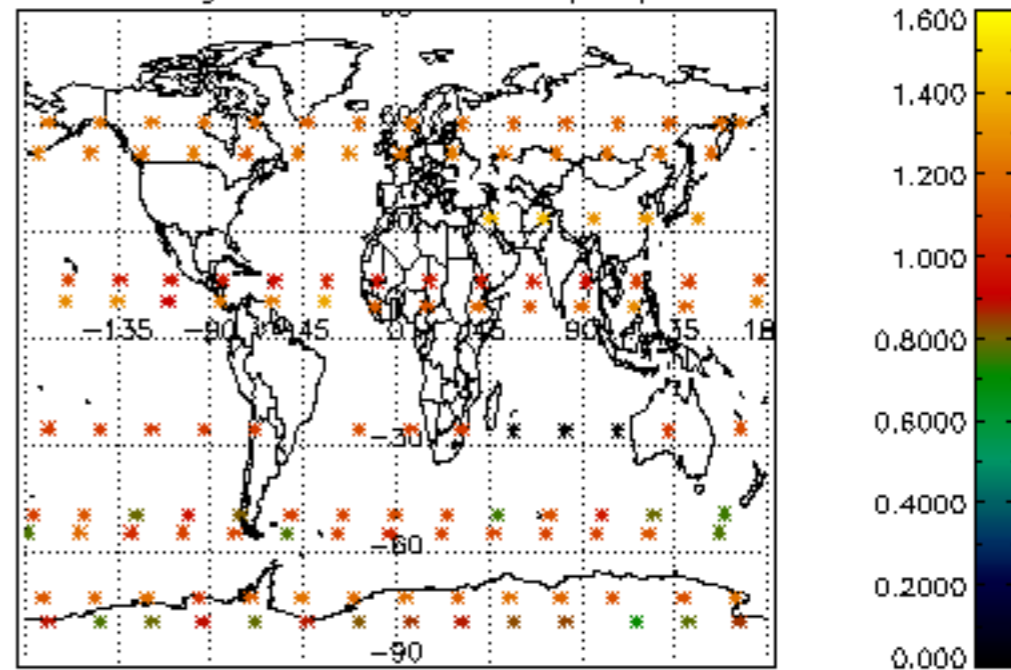
Percentage of saturation errors per profile



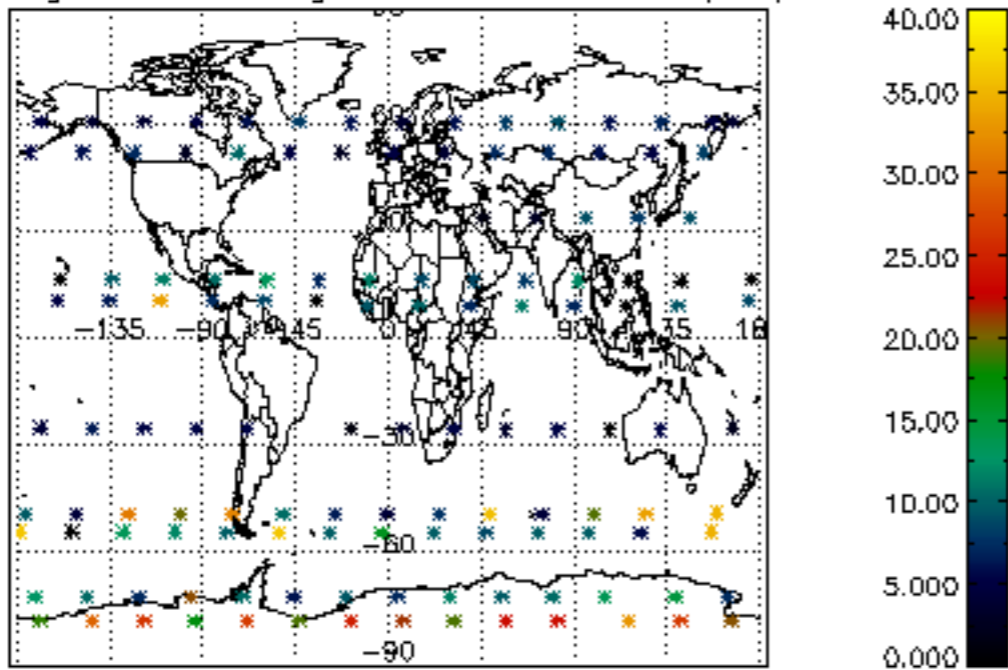
Percentage of cosmic ray hits per profile



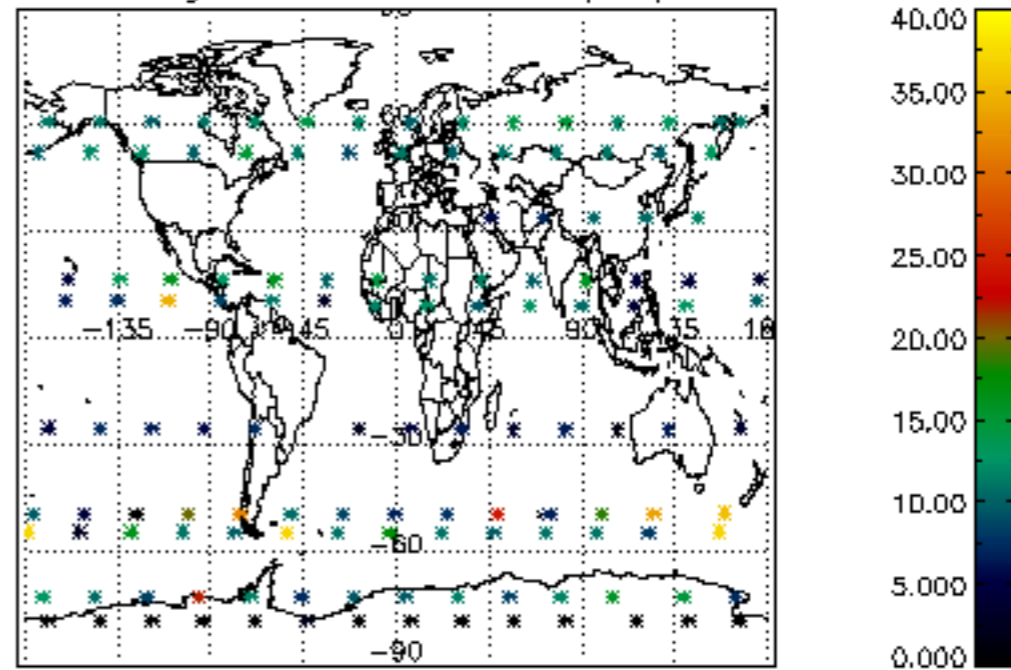
Percentage of datation errors per profile

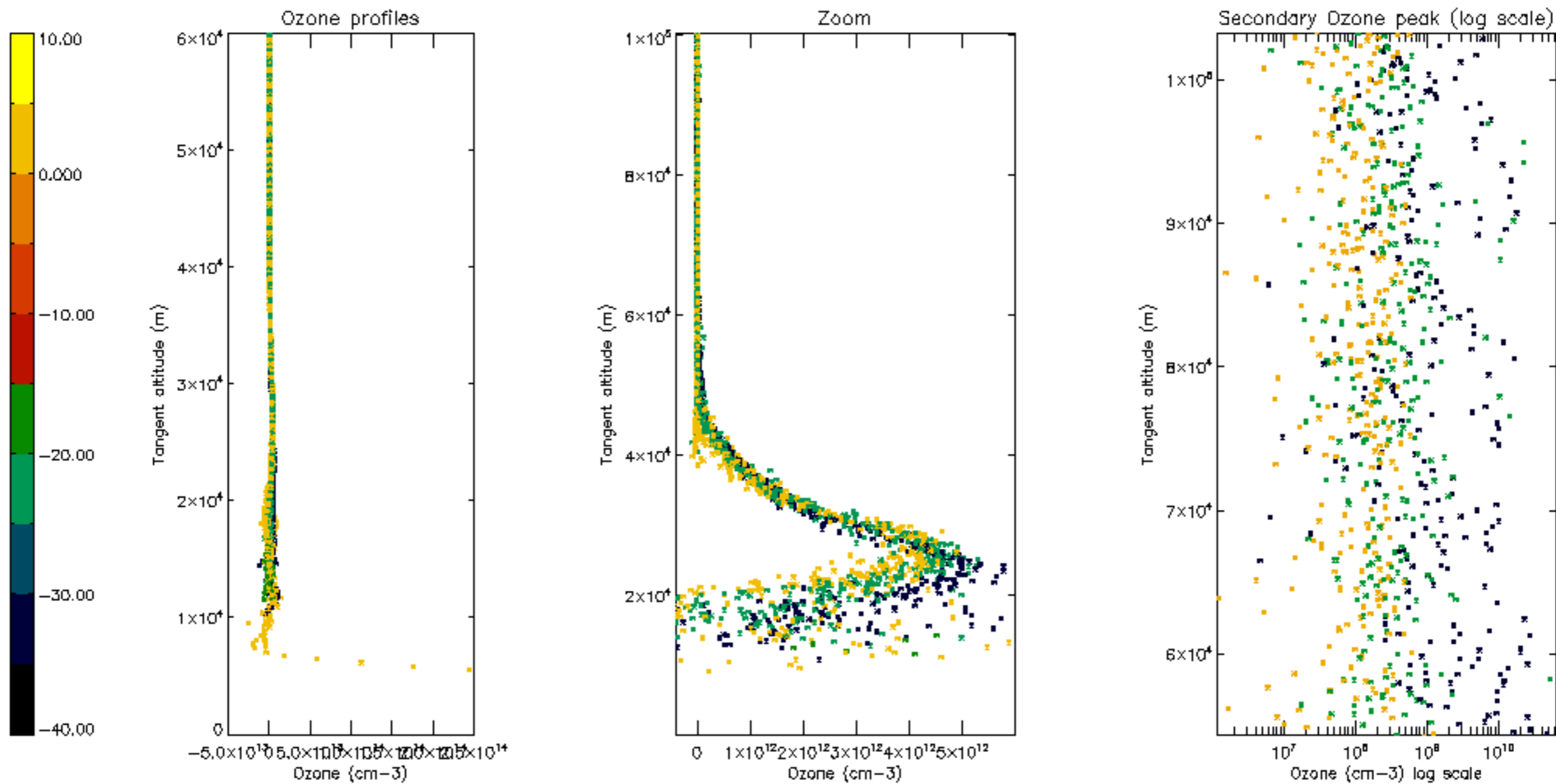


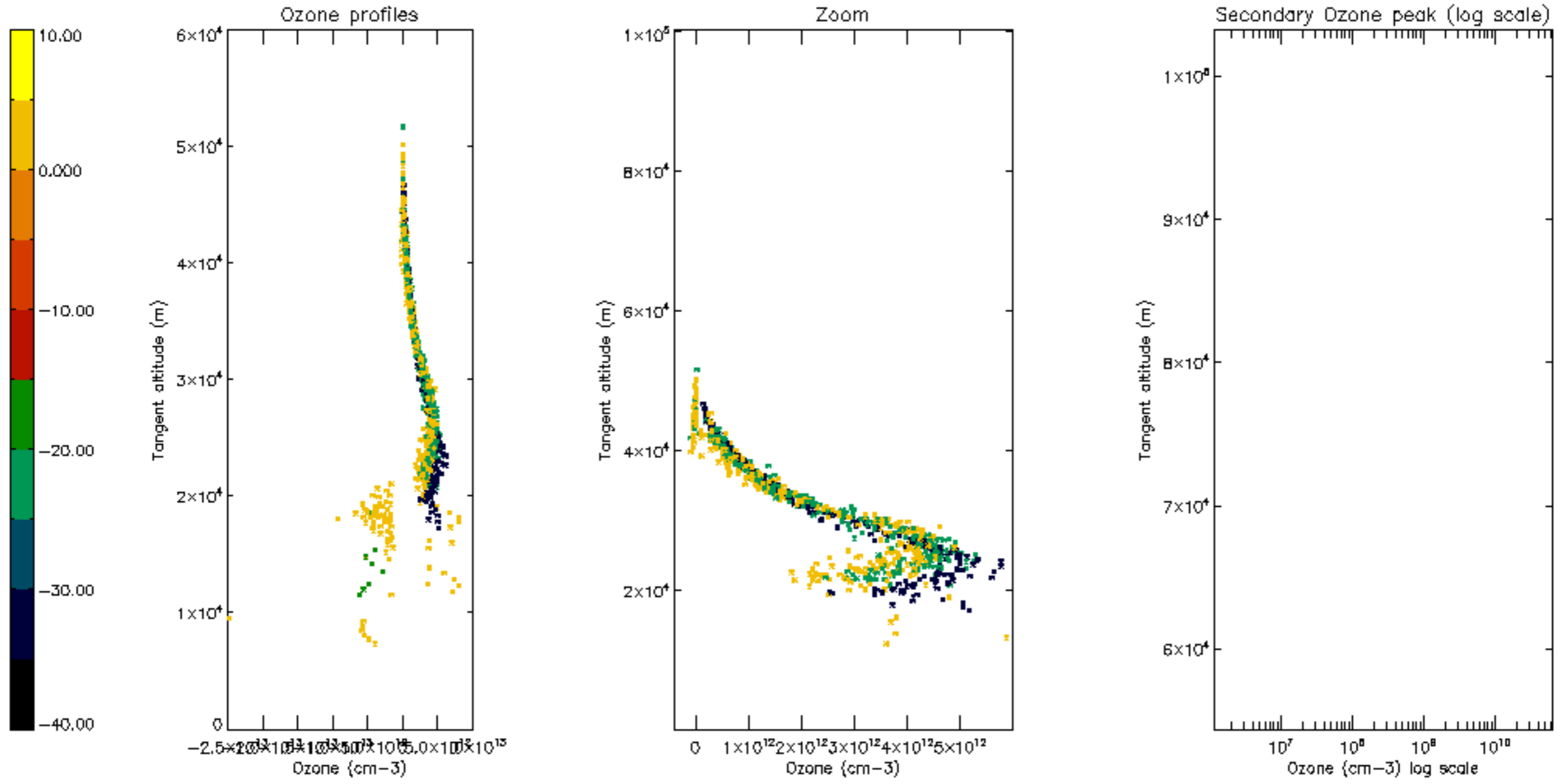
Percentage of star falling outside central band per profile

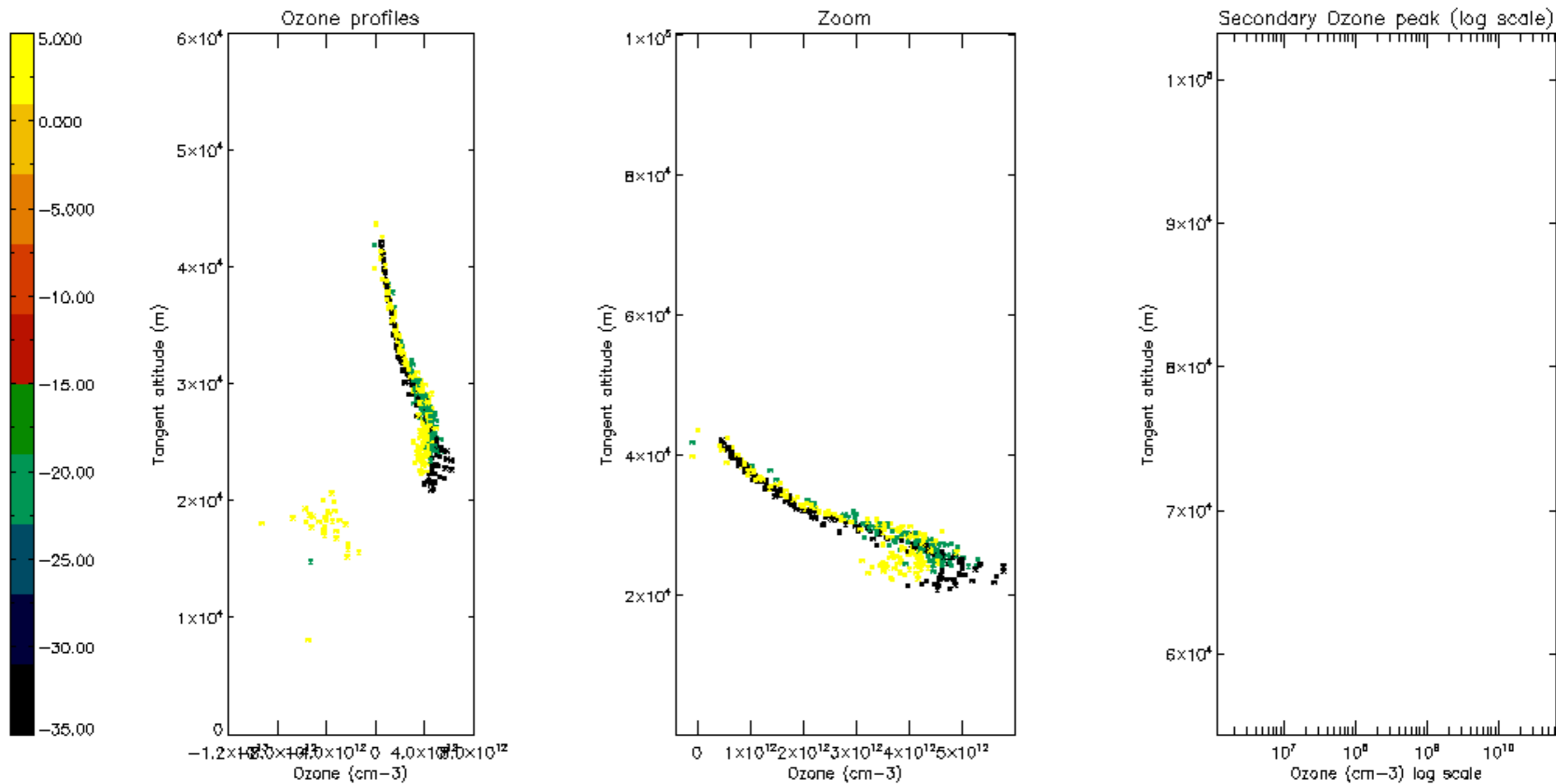


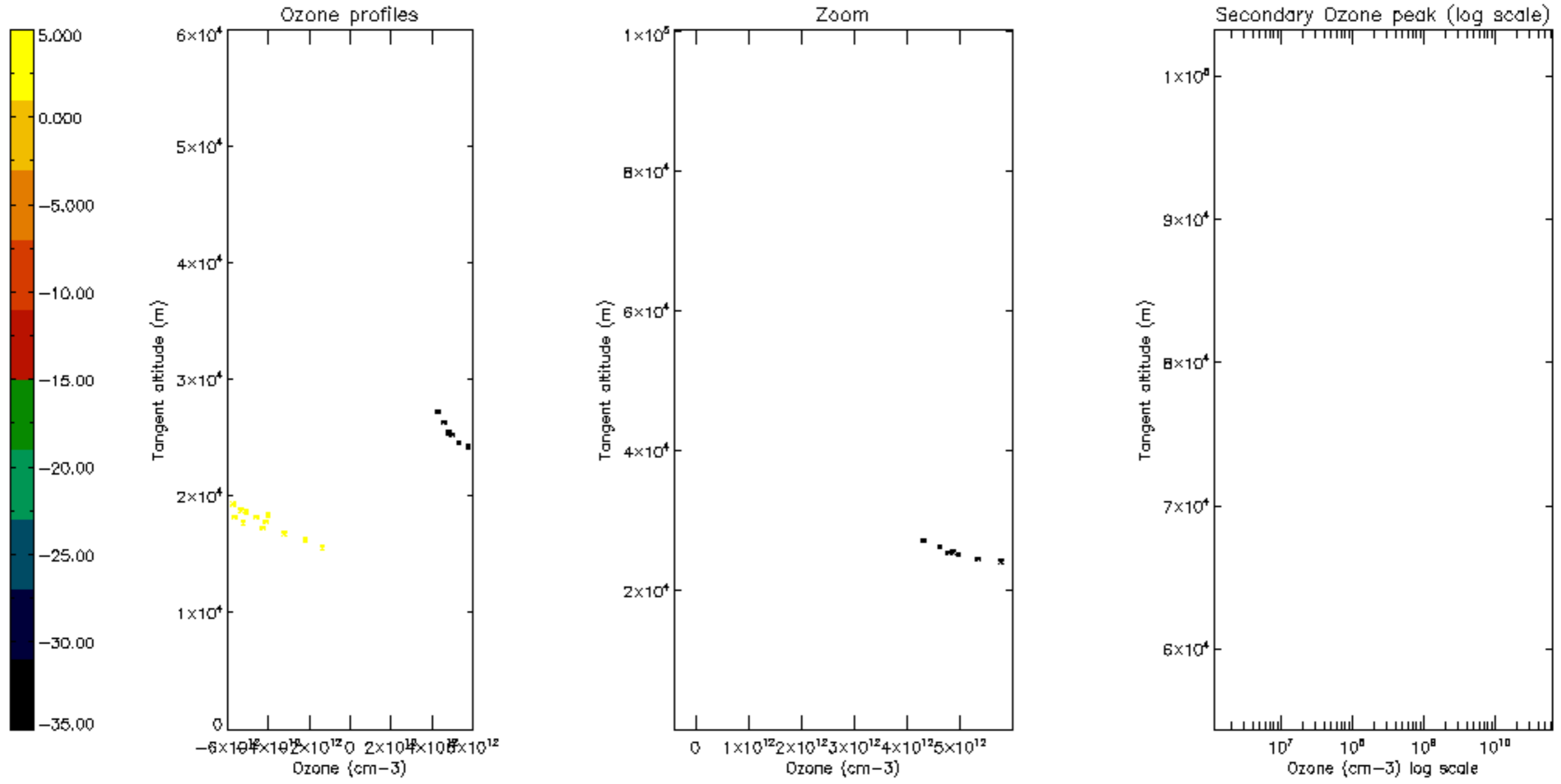
Percentage of saturation errors per profile

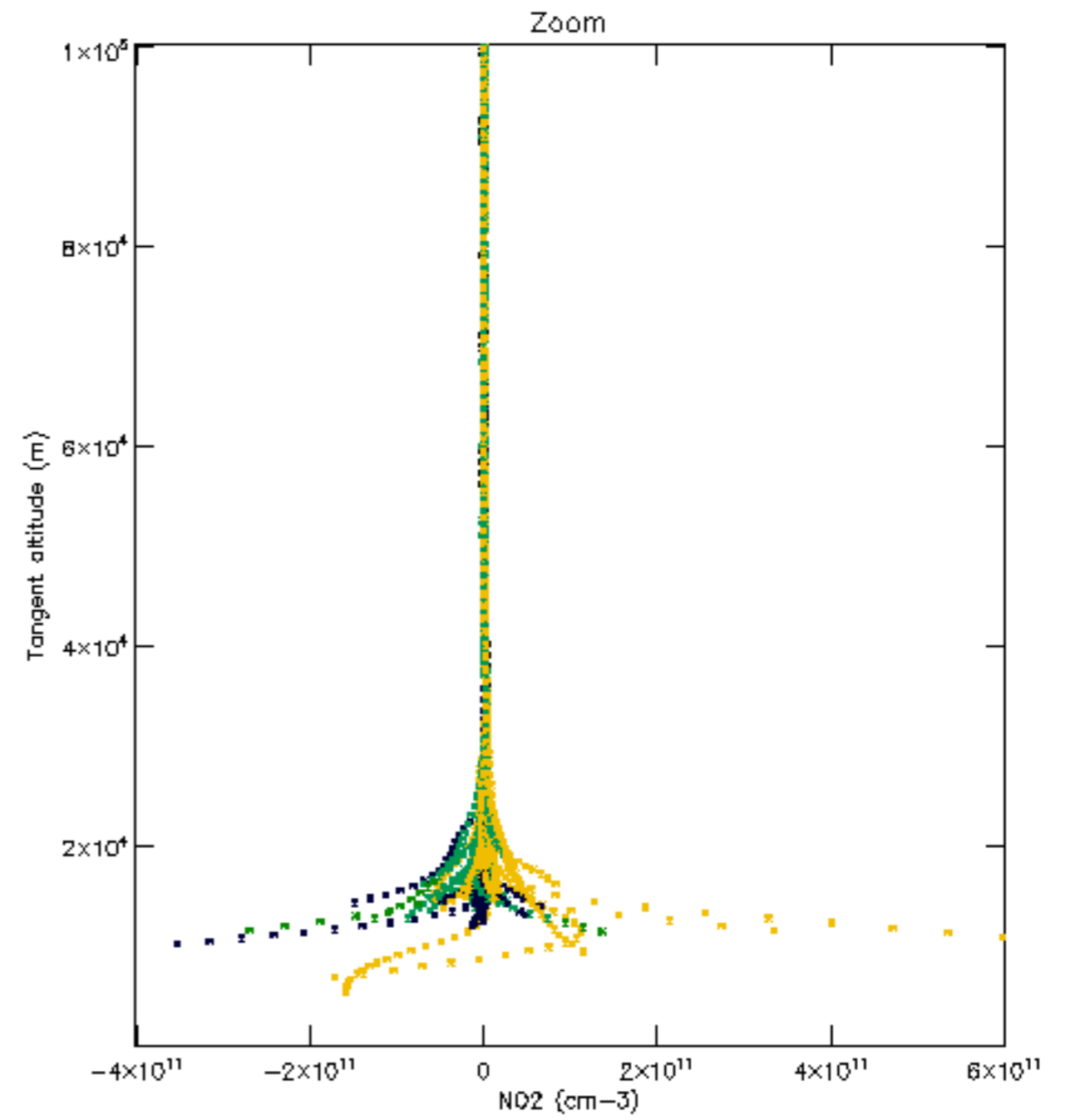
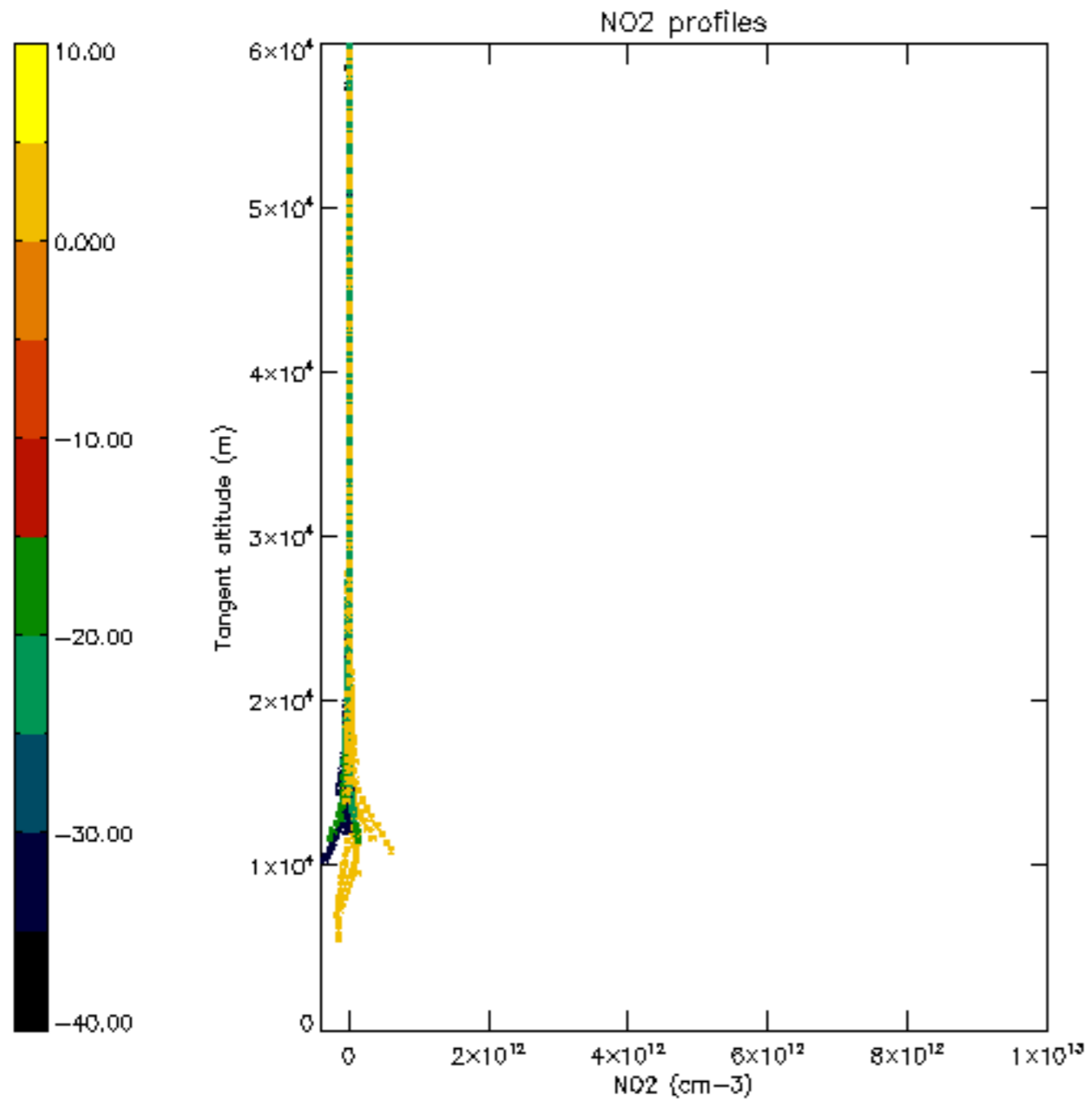


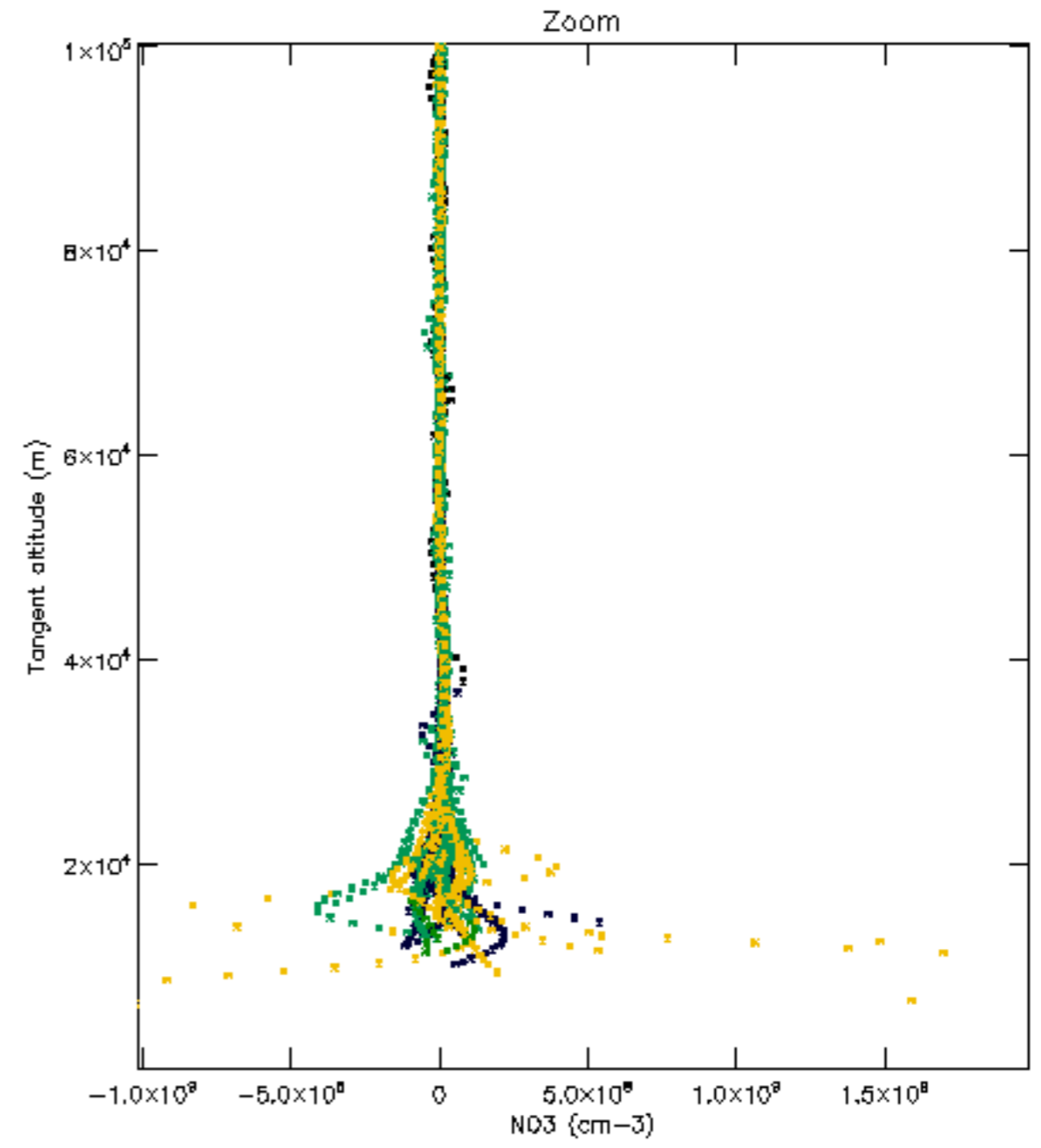
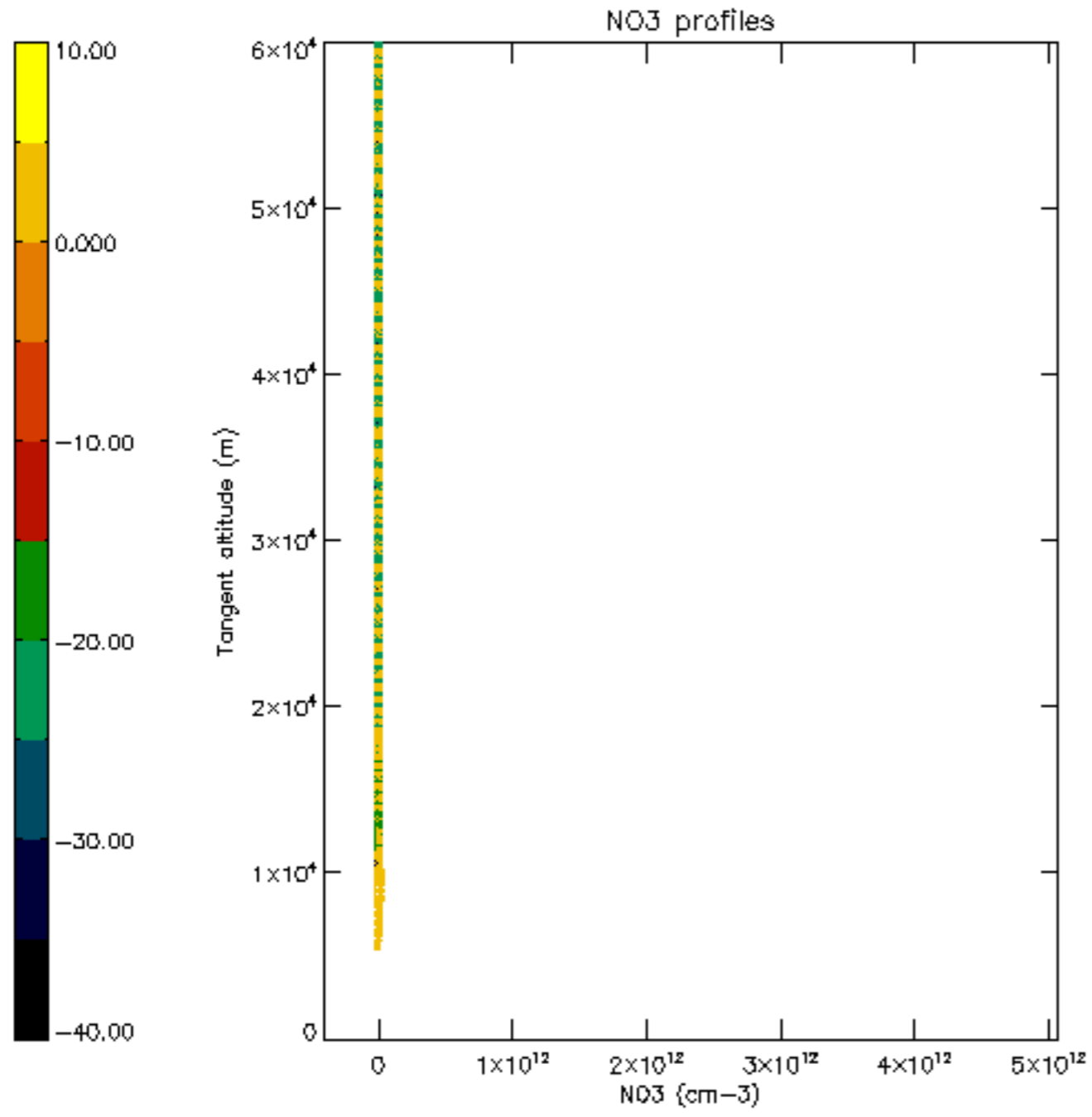


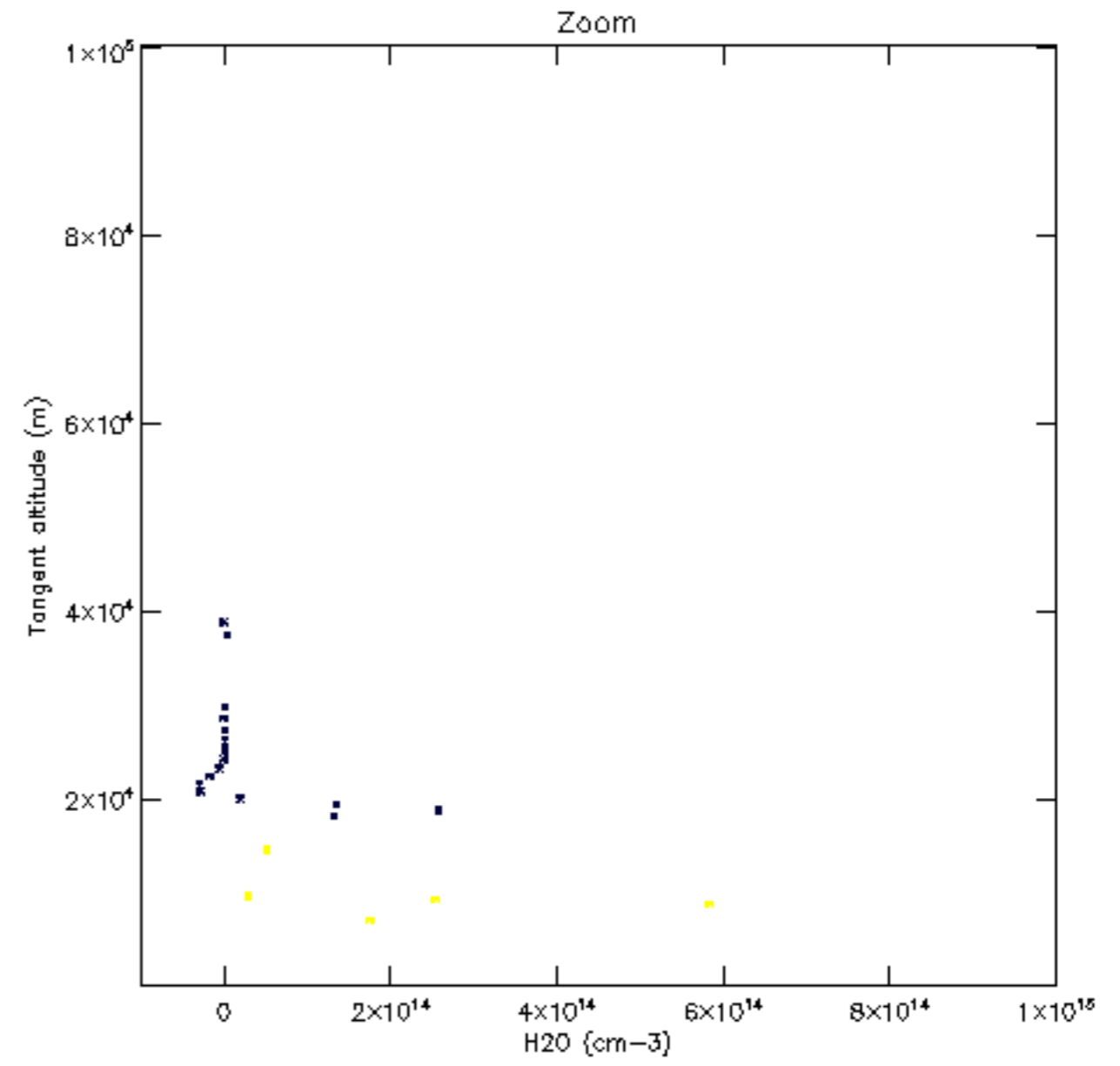
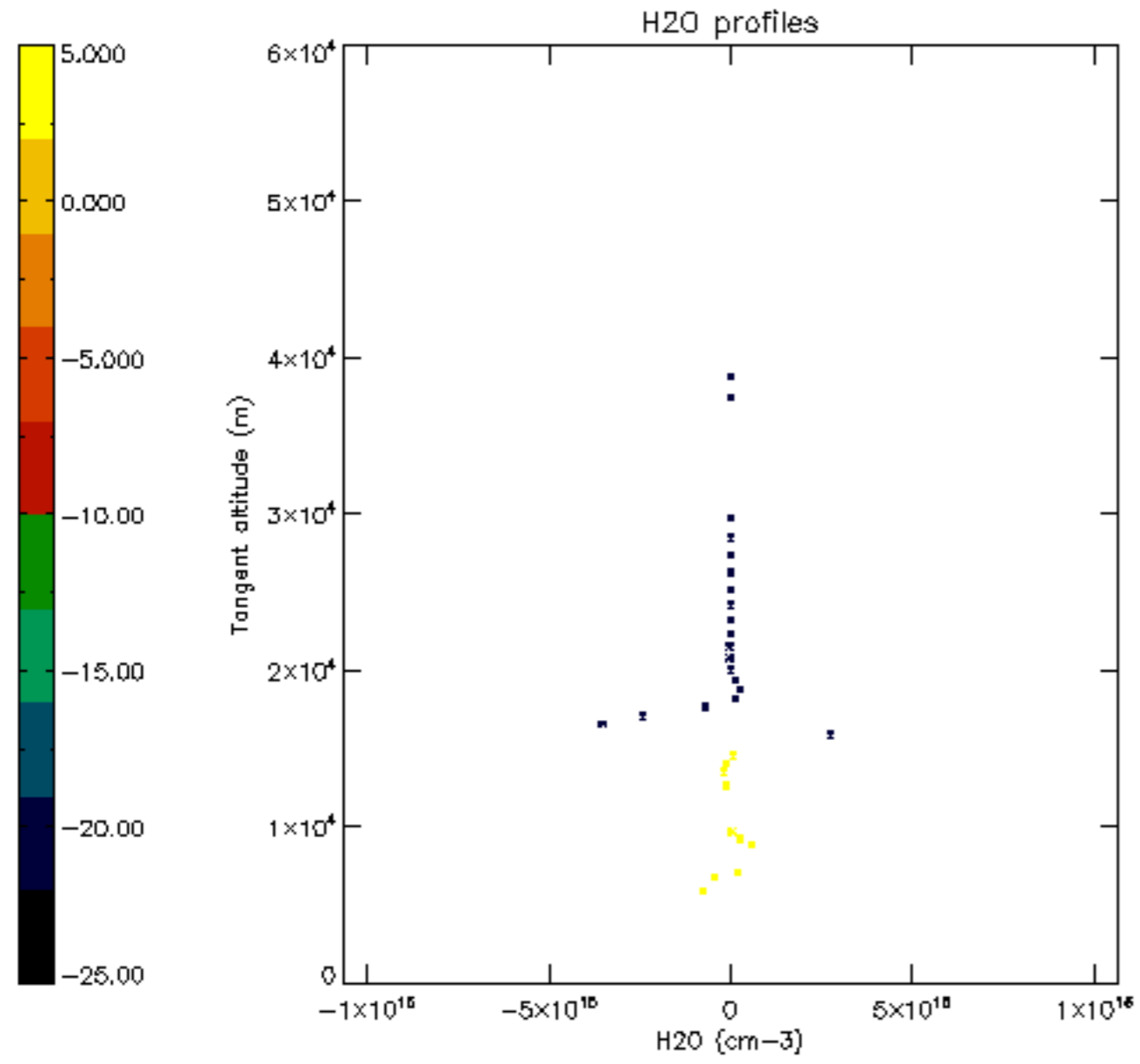


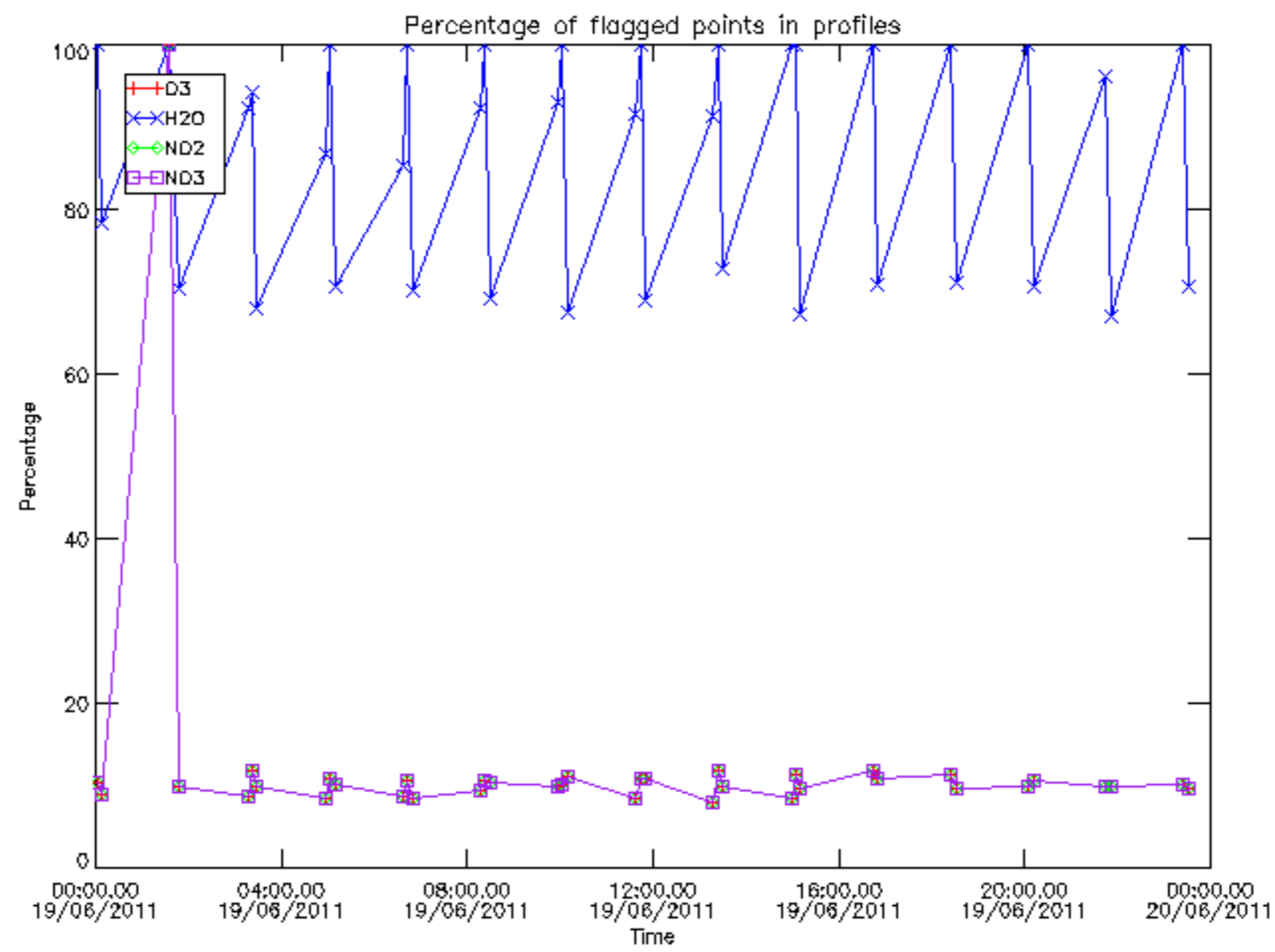




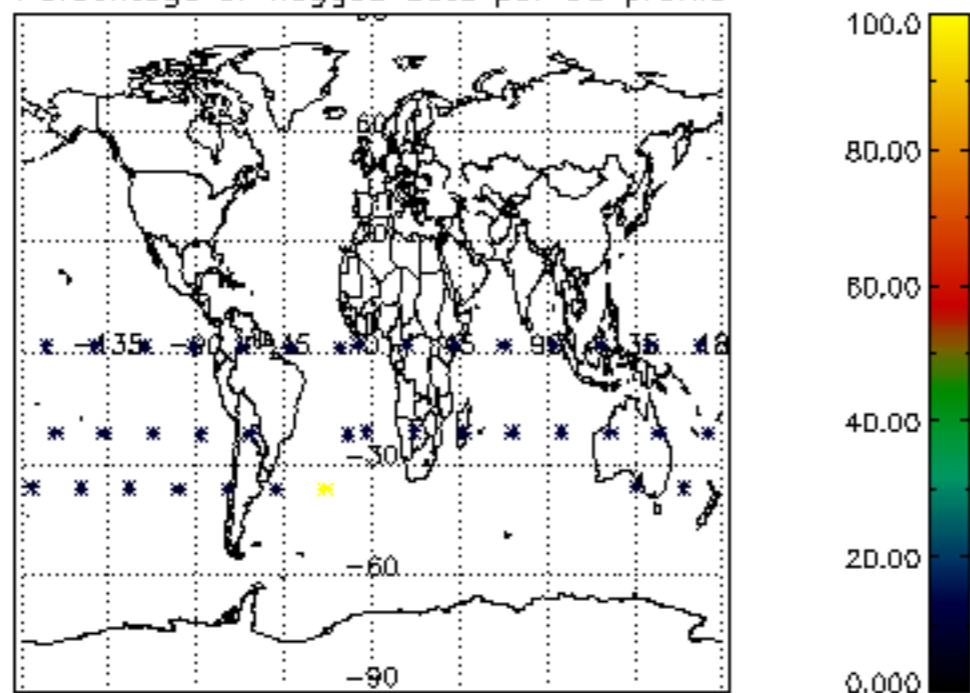




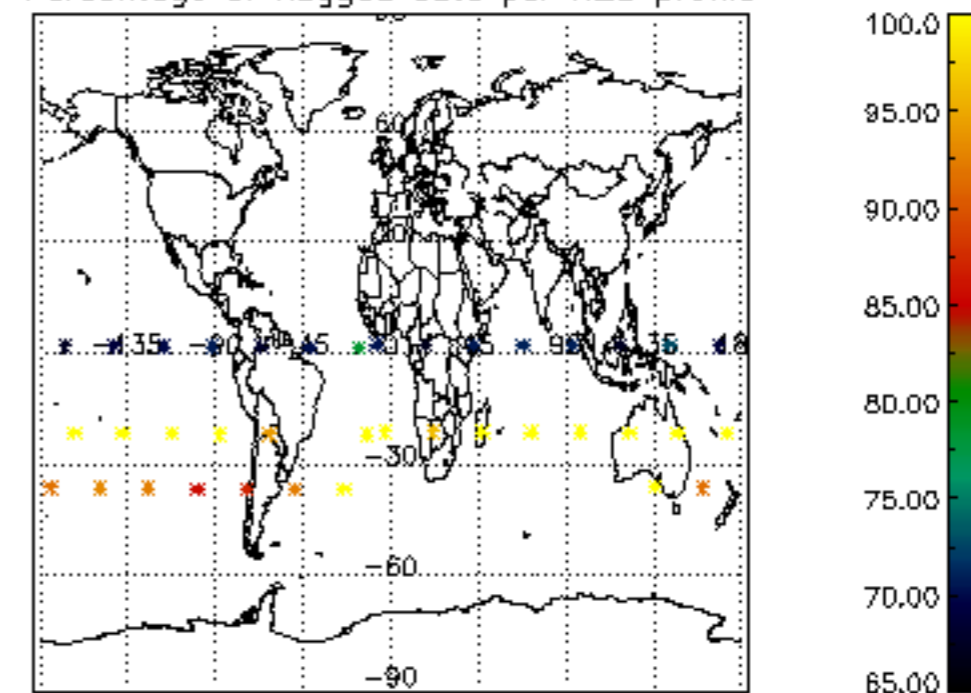




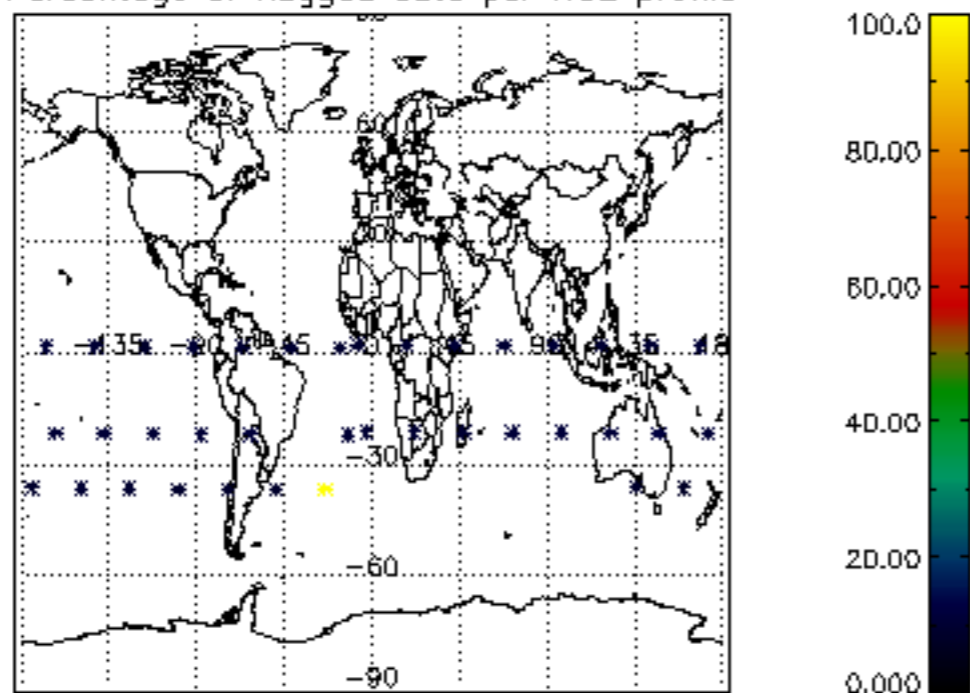
Percentage of flagged data per D3 profile



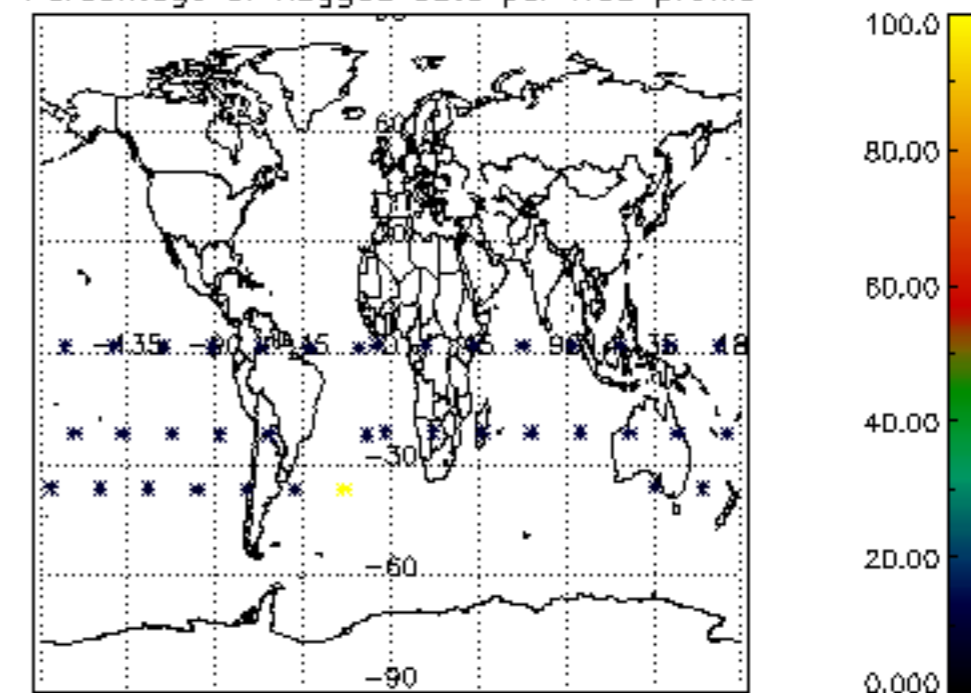
Percentage of flagged data per H2O profile

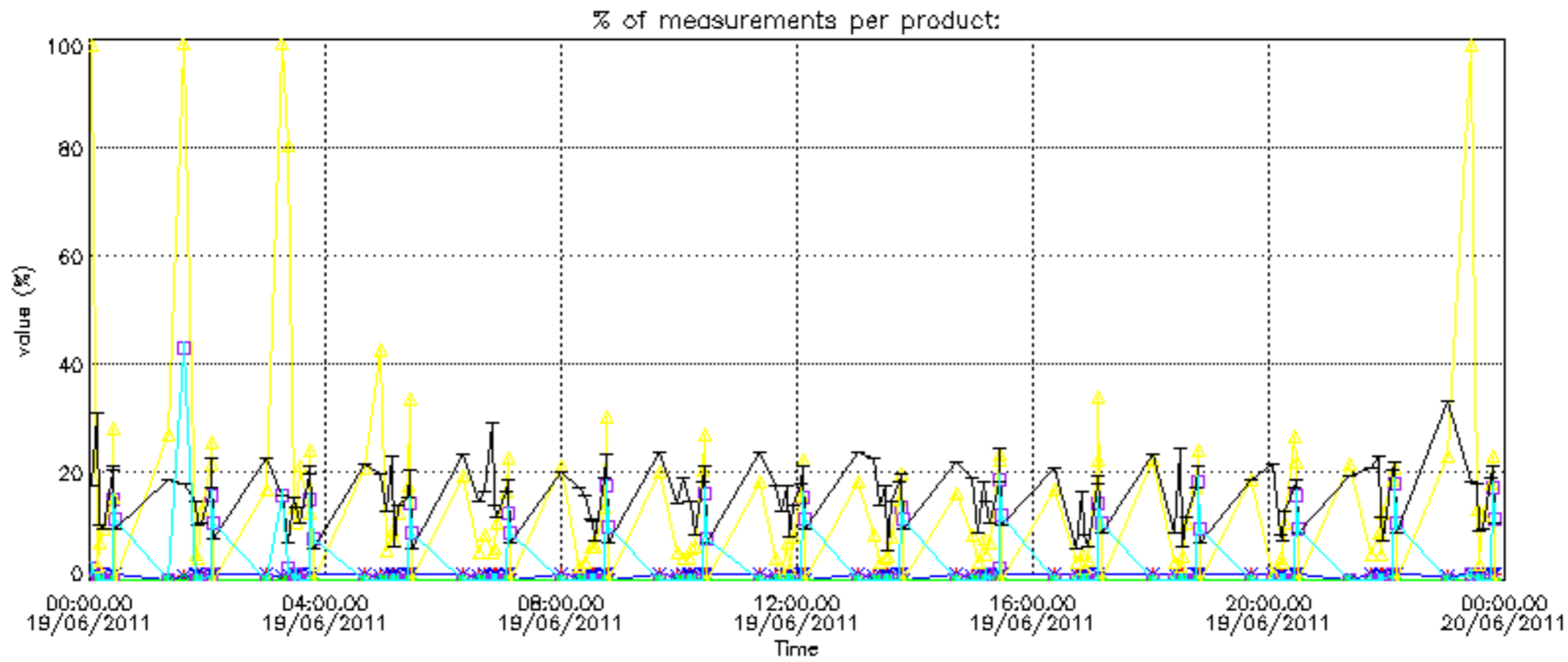


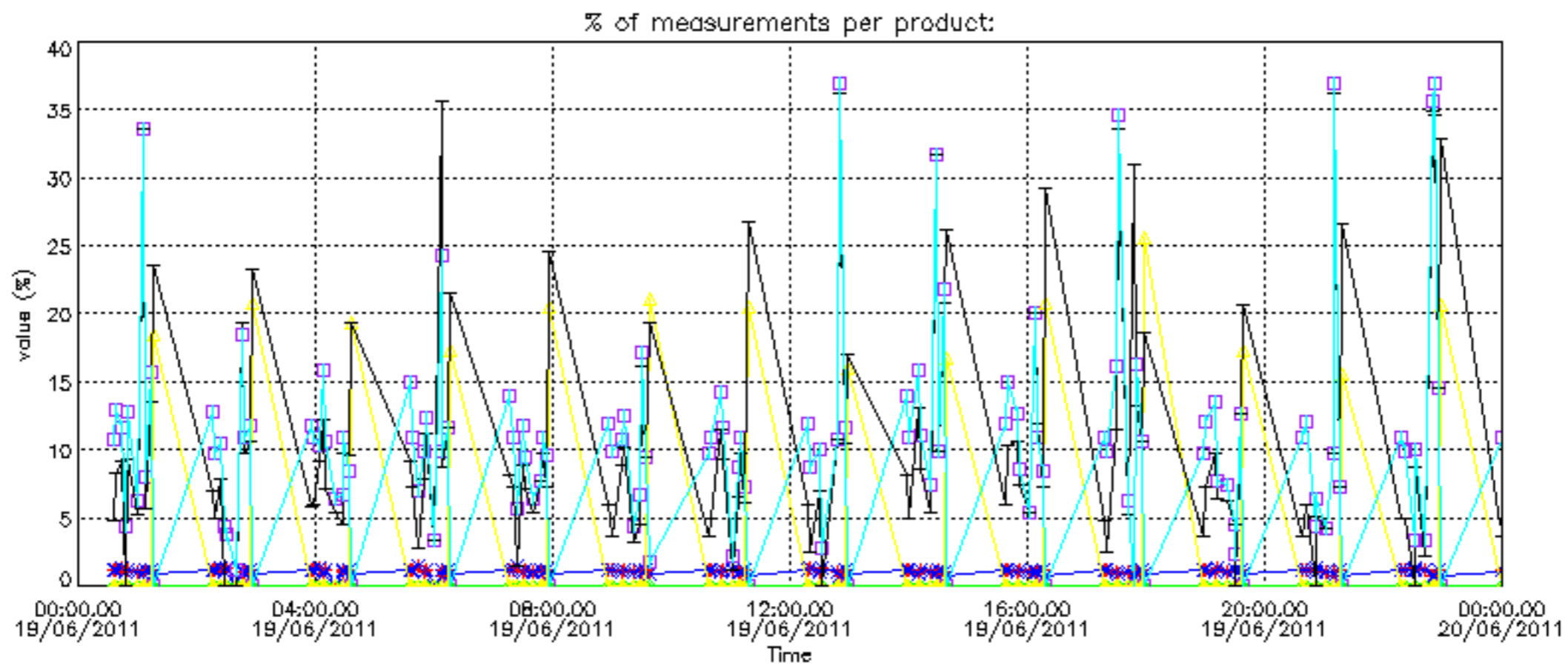
Percentage of flagged data per NO2 profile



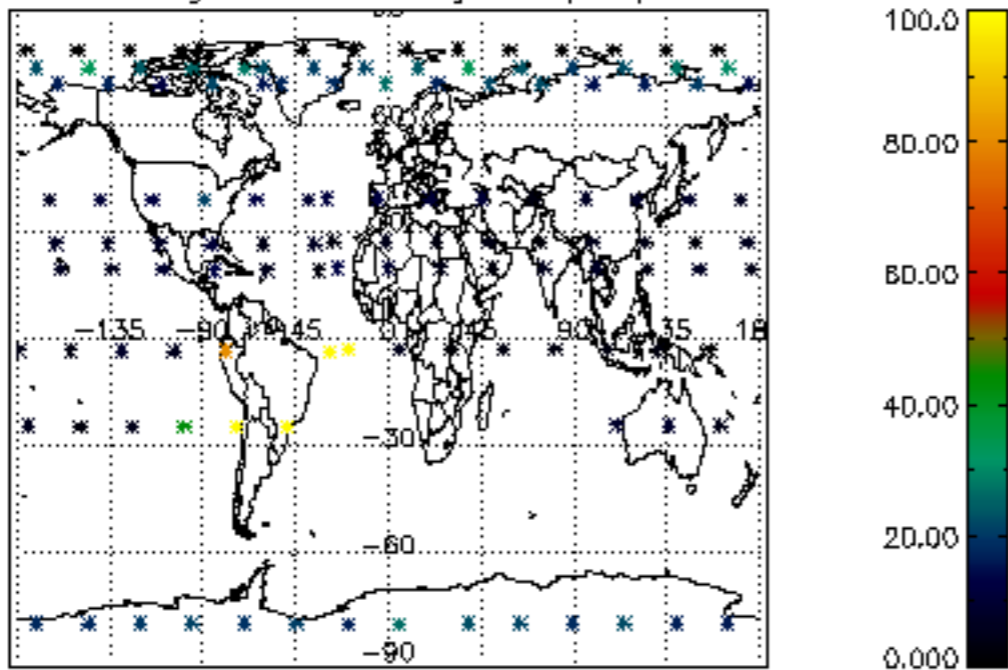
Percentage of flagged data per NO3 profile



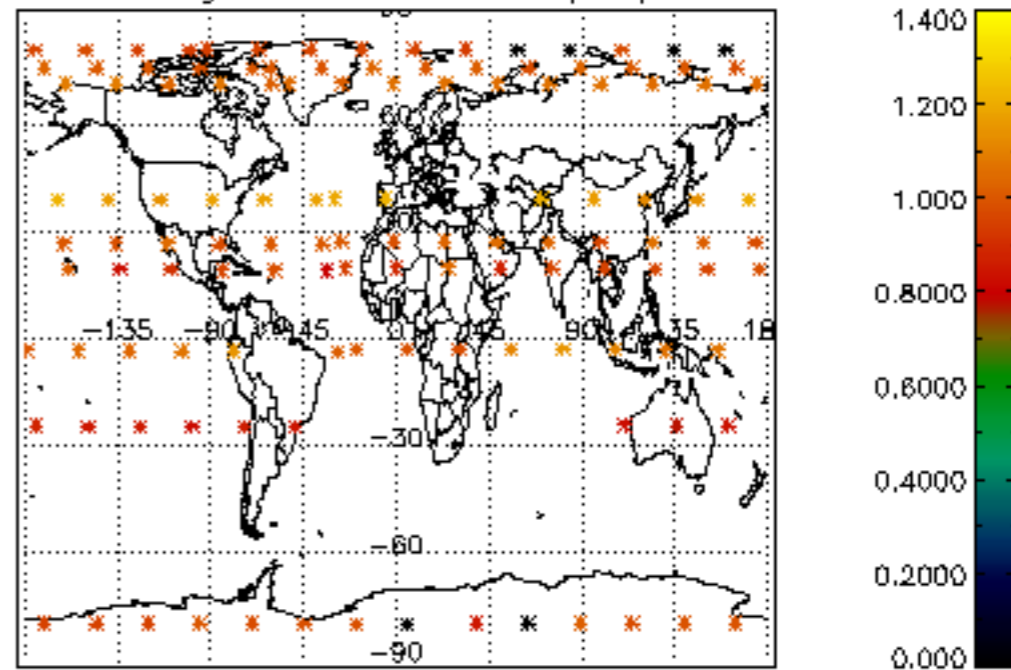




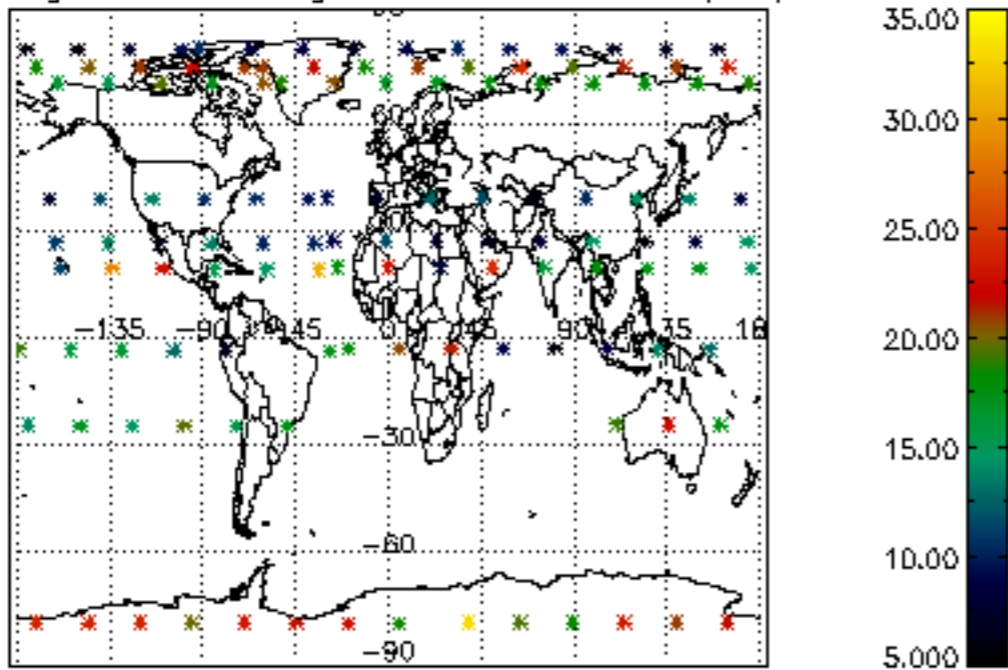
Percentage of cosmic ray hits per profile



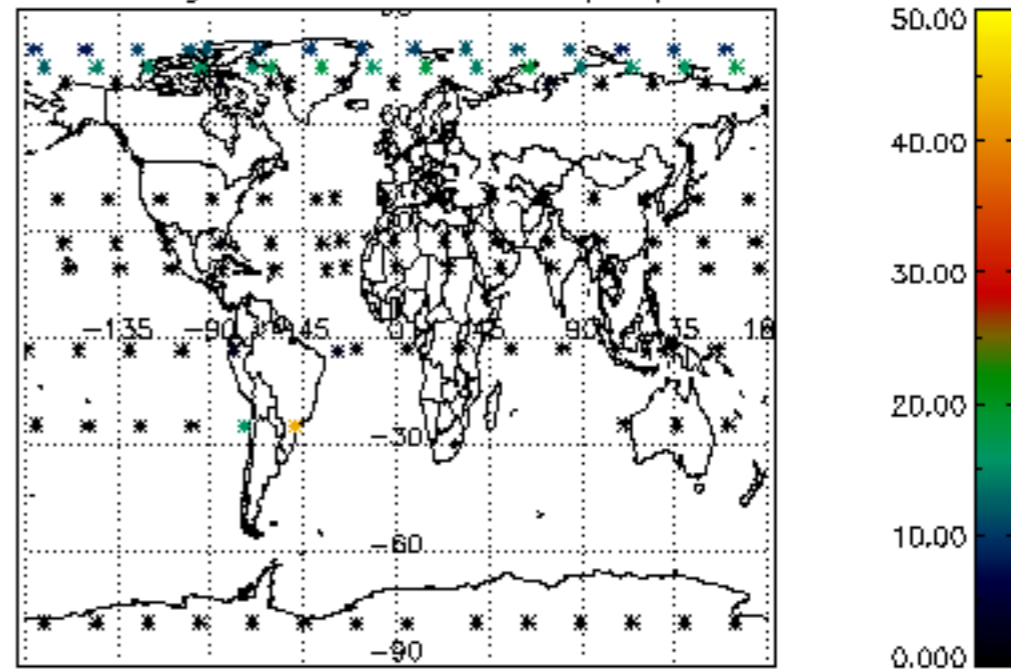
Percentage of datation errors per profile



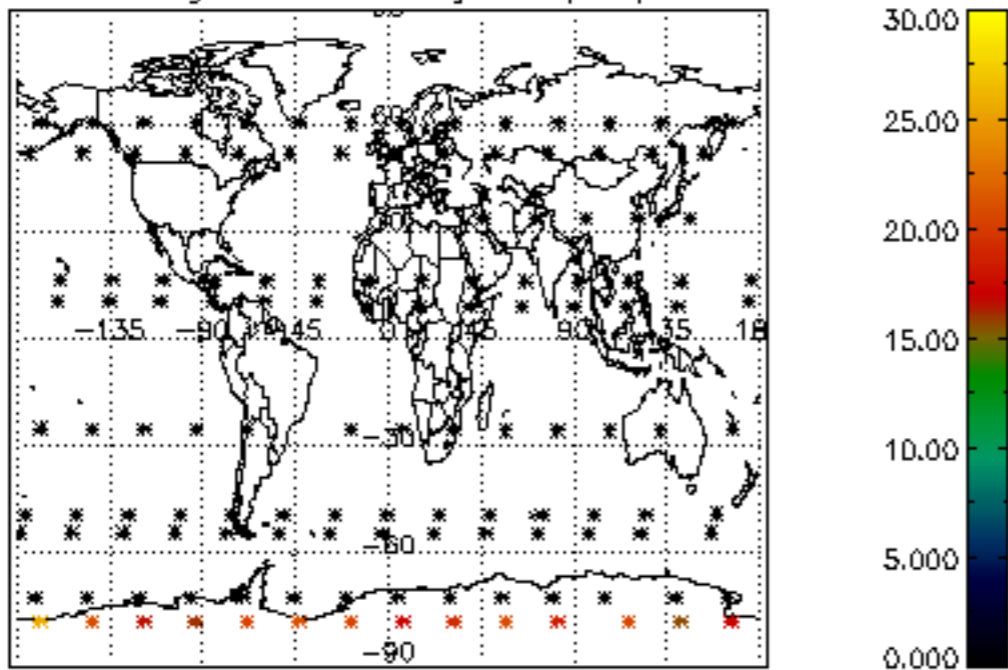
Percentage of star falling outside central band per profile



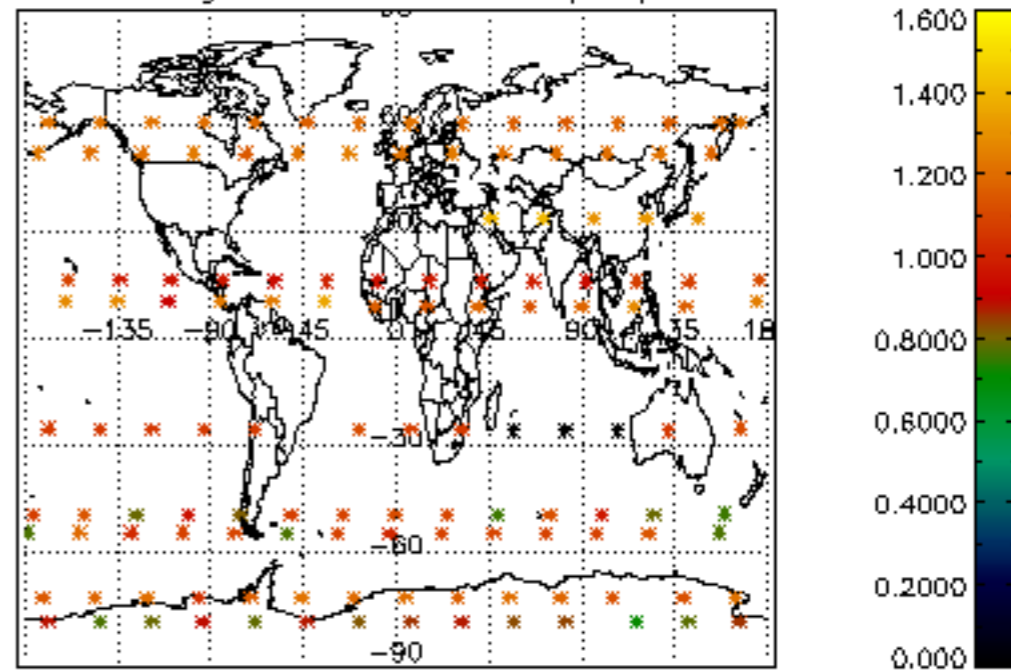
Percentage of saturation errors per profile



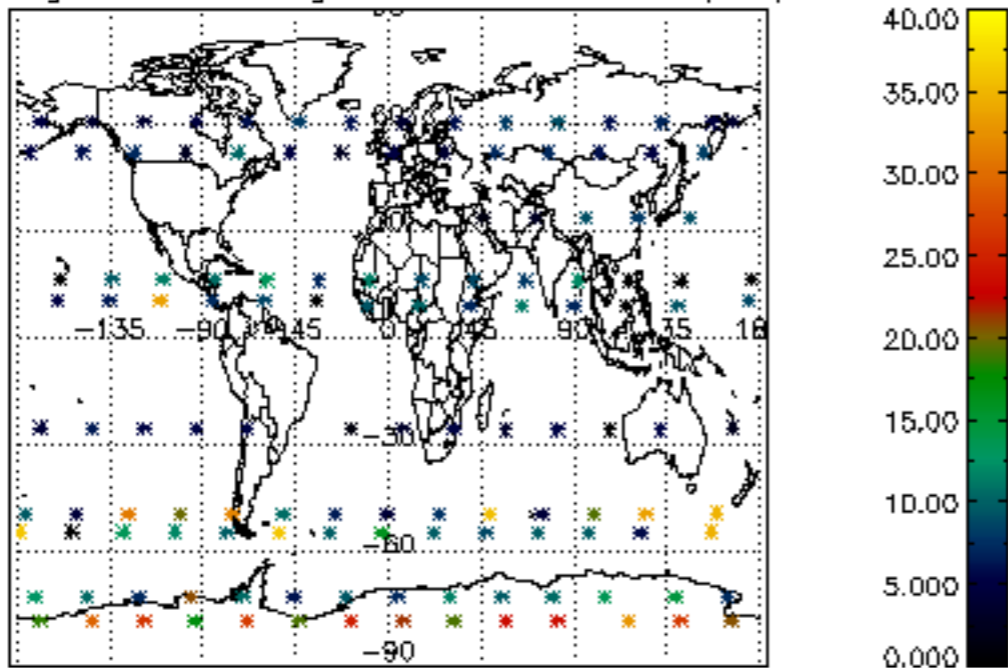
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

