

GOMOS Level 2 Daily Report

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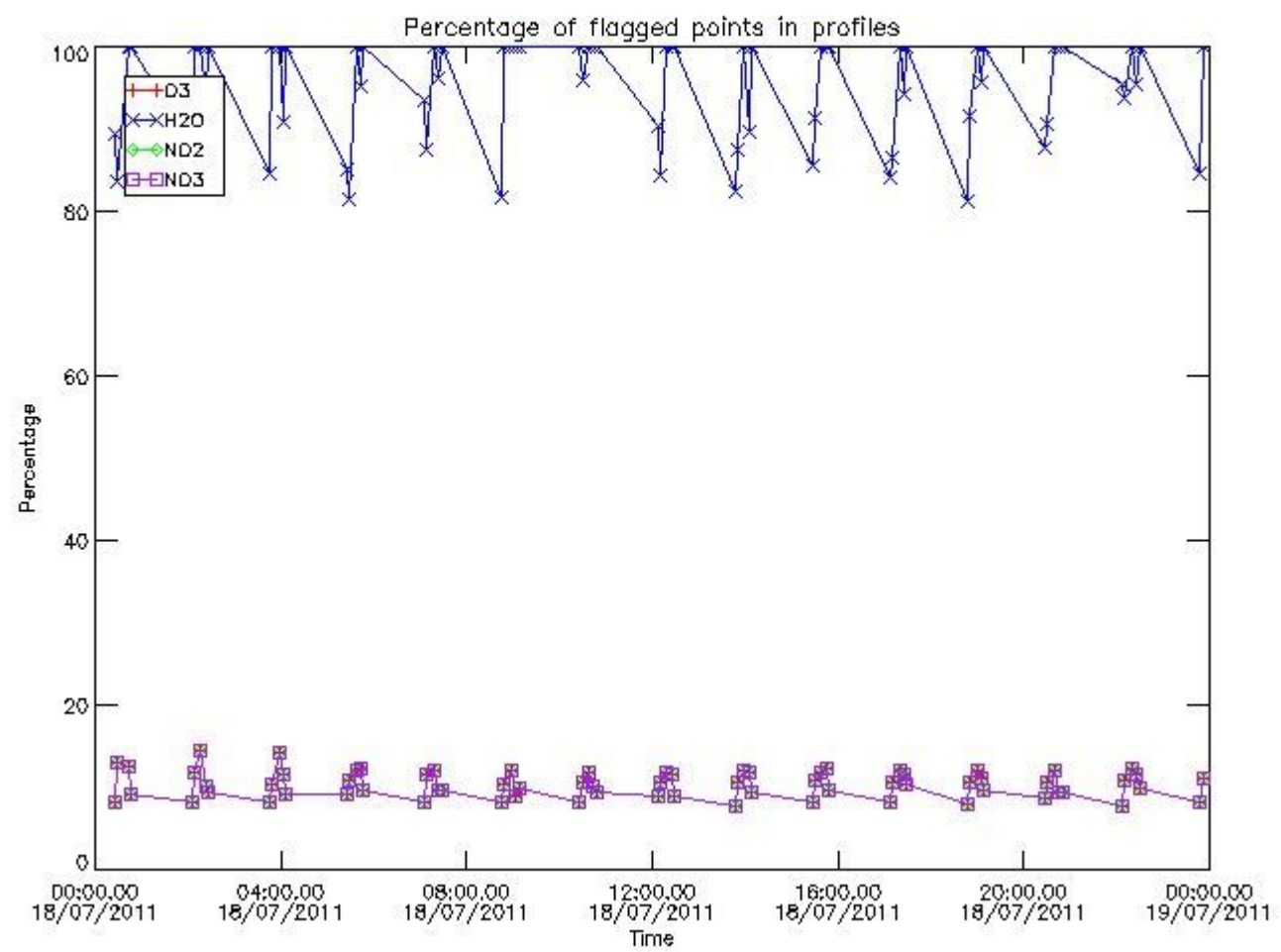
[6. Auxiliary Data Files used for the production reported in section 2](#)

279	GOM_NL__2PRFIN20110718_215057_000000433104_00345_49066_7356.N1	18-JUL-2011 21:50:57	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	49066	No
280	GOM_NL__2PRFIN20110718_215356_000000473104_00345_49066_7357.N1	18-JUL-2011 21:53:56	Bright	46.500	79	26Bet Per	2.3100	13100.	93	49066	No
281	GOM_NL__2PRFIN20110718_215659_000000473104_00345_49066_7358.N1	18-JUL-2011 21:56:59	Twilight	47.000	150	44Zet Per	2.8900	28000.	94	49066	No
282	GOM_NL__2PRFIN20110718_215939_000000473104_00345_49066_7359.N1	18-JUL-2011 21:59:39	Twilight	46.500	146	25Eta Tau	2.8730	15200.	93	49066	No
283	GOM_NL__2PRFIN20110718_220114_000000473104_00345_49066_7360.N1	18-JUL-2011 22:01:14	Twilight	47.000	13	87Alp Tau	0.86700	3800.0	94	49066	No
284	GOM_NL__2PRFIN20110718_220804_000000673104_00345_49066_7361.N1	18-JUL-2011 22:08:04	Dark	67.000	94	92Alp Cet	2.5260	3100.0	134	49066	No
285	GOM_NL__2PRFIN20110718_221054_000000483104_00345_49066_7362.N1	18-JUL-2011 22:10:54	Dark	47.500	165	34Gam Eri	2.9500	3200.0	95	49066	No
286	GOM_NL__2PRFIN20110718_222000_000000423104_00345_49066_7363.N1	18-JUL-2011 22:20:00	Dark	41.500	157	The1Eri	2.9060	9300.0	83	49066	No
287	GOM_NL__2PRFIN20110718_222603_000000443104_00346_49067_7417.N1	18-JUL-2011 22:26:03	Dark	44.000	9	Alp Eri	0.45300	24000.	88	49067	No
288	GOM_NL__2PRFIN20110718_222927_000000523104_00346_49067_7418.N1	18-JUL-2011 22:29:27	Dark	52.000	84	Alp Phe	2.3970	4500.0	104	49067	No
289	GOM_NL__2PRFIN20110718_223326_000000423104_00346_49067_7419.N1	18-JUL-2011 22:33:26	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	49067	No
290	GOM_NL__2PRFIN20110718_223456_000000633104_00346_49067_7420.N1	18-JUL-2011 22:34:56	Straylight	62.500	63	Bet Gru	2.1500	2800.0	125	49067	No
291	GOM_NL__2PRFIN20110718_223625_000000463104_00346_49067_7421.N1	18-JUL-2011 22:36:25	Straylight	45.500	31	Alp Gru	1.7340	15200.	91	49067	No
292	GOM_NL__2PRFIN20110718_223938_000000503104_00346_49067_7422.N1	18-JUL-2011 22:39:38	Straylight	50.000	172	Gam Gru	3.0030	13100.	100	49067	No
293	GOM_NL__2PRFIN20110718_225836_000000393104_00346_49067_7423.N1	18-JUL-2011 22:58:36	Bright	38.500	168	17Zet Aql	2.9860	11000.	77	49067	No
294	GOM_NL__2PRFIN20110718_230538_000000373104_00346_49067_7424.N1	18-JUL-2011 23:05:38	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	49067	No
295	GOM_NL__2PRFIN20110718_230834_000000423104_00346_49067_7425.N1	18-JUL-2011 23:08:34	Bright	41.500	144	18Del Cyg	2.8600	11000.	83	49067	No
296	GOM_NL__2PRFIN20110718_231035_000000503104_00346_49067_7426.N1	18-JUL-2011 23:10:35	Bright	49.500	19	50Alp Cyg	1.2460	10500.	99	49067	No
297	GOM_NL__2PRFIN20110718_231538_000000413104_00346_49067_7427.N1	18-JUL-2011 23:15:38	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	49067	No
298	GOM_NL__2PRFIN20110718_232426_000000493104_00346_49067_7428.N1	18-JUL-2011 23:24:26	Bright	49.000	76	27Gam Cas	2.3000	30000.	98	49067	No
299	GOM_NL__2PRFIN20110718_232946_000000493104_00346_49067_7429.N1	18-JUL-2011 23:29:46	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	49067	No
300	GOM_NL__2PRFIN20110718_233111_000000623104_00346_49067_7430.N1	18-JUL-2011 23:31:11	Bright	62.000	35	33Alp Per	1.7950	6250.0	124	49067	No
301	GOM_NL__2PRFIN20110718_233410_000000473104_00346_49067_7431.N1	18-JUL-2011 23:34:10	Bright	47.000	79	26Bet Per	2.3100	13100.	94	49067	No
302	GOM_NL__2PRFIN20110718_233713_000000463104_00346_49067_7432.N1	18-JUL-2011 23:37:13	Twilight	45.500	150	44Zet Per	2.8900	28000.	91	49067	No
303	GOM_NL__2PRFIN20110718_233953_000000493104_00346_49067_7433.N1	18-JUL-2011 23:39:53	Twilight	49.000	146	25Eta Tau	2.8730	15200.	98	49067	No
304	GOM_NL__2PRFIN20110718_234129_000000453104_00346_49067_7434.N1	18-JUL-2011 23:41:29	Twilight	44.500	13	87Alp Tau	0.86700	3800.0	89	49067	No
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306	GOM_NL__2PRFIN20110718_235108_000000463104_00346_49067_7436.N1	18-JUL-2011 23:51:08	Dark	46.000	165	34Gam Eri	2.9500	3200.0	92	49067	No

3. Quality information per product

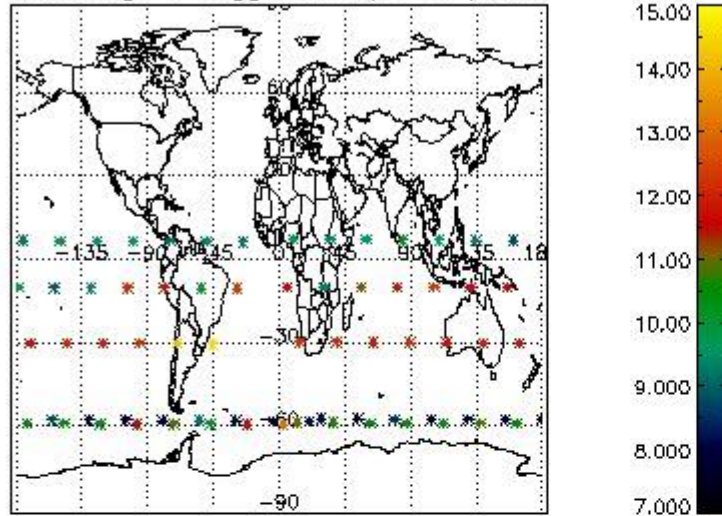
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

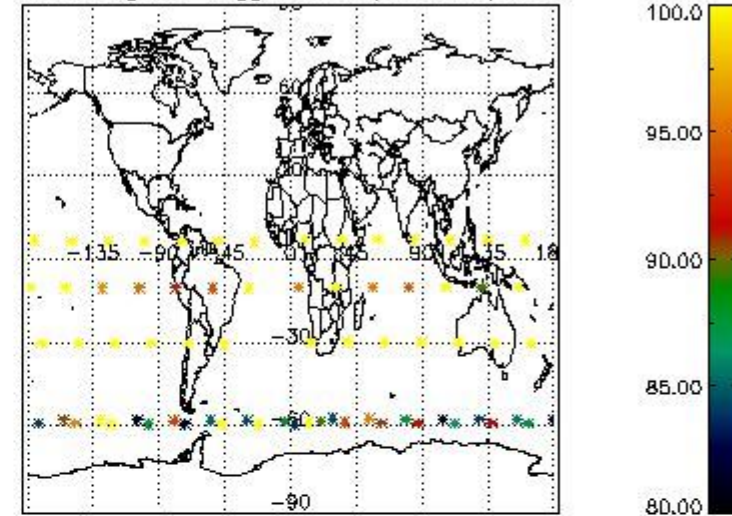


3.2 Plot quality information per product (world map)

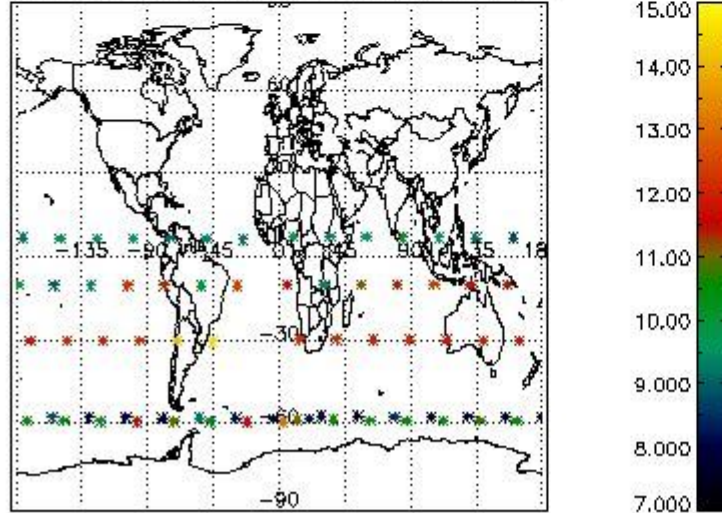
Percentage of flagged data per O3 profile



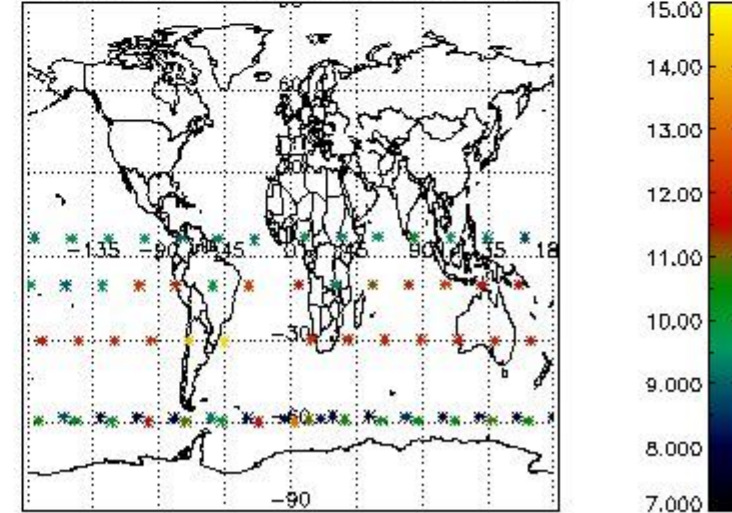
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

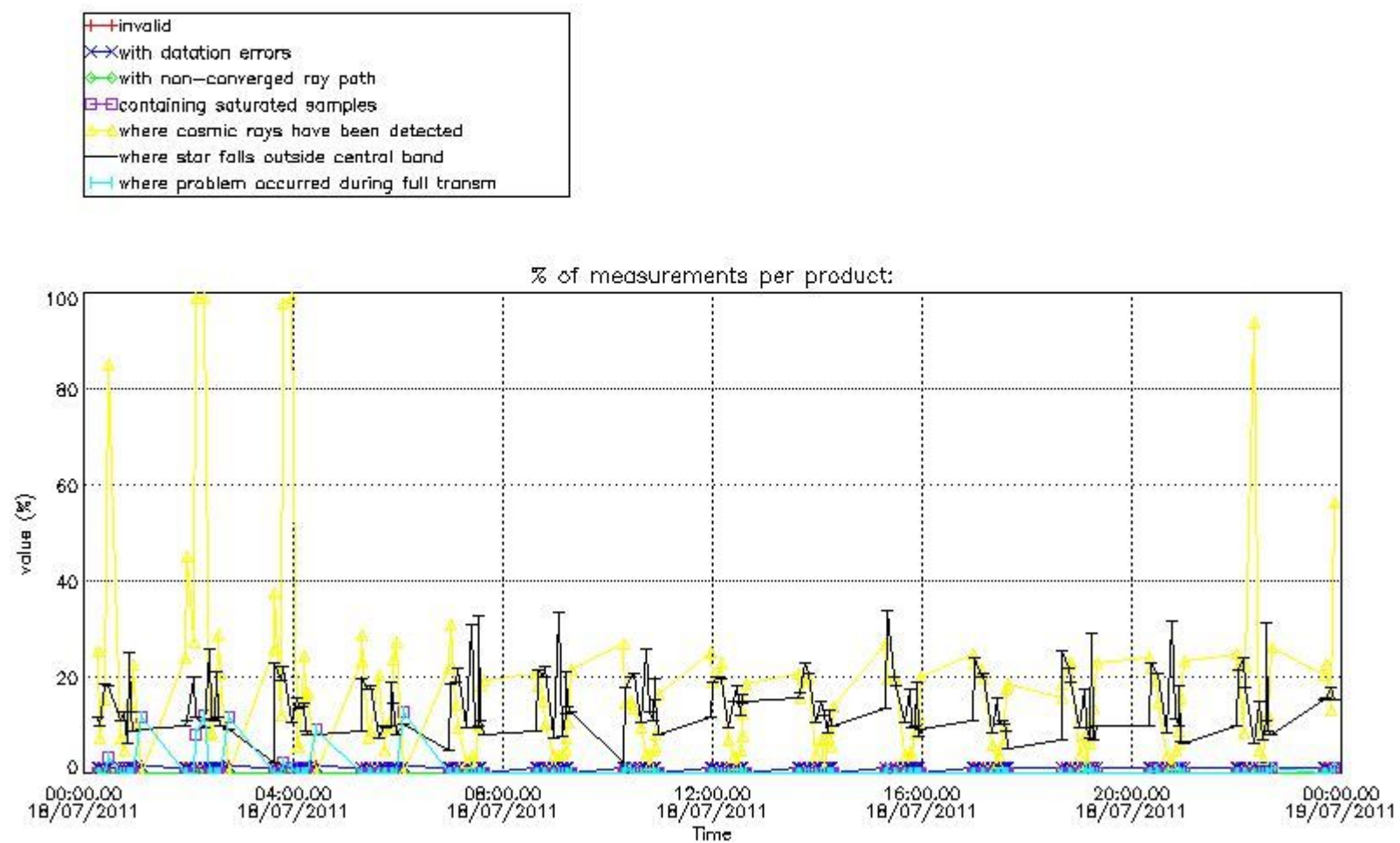


4. Level 1 quality information per product

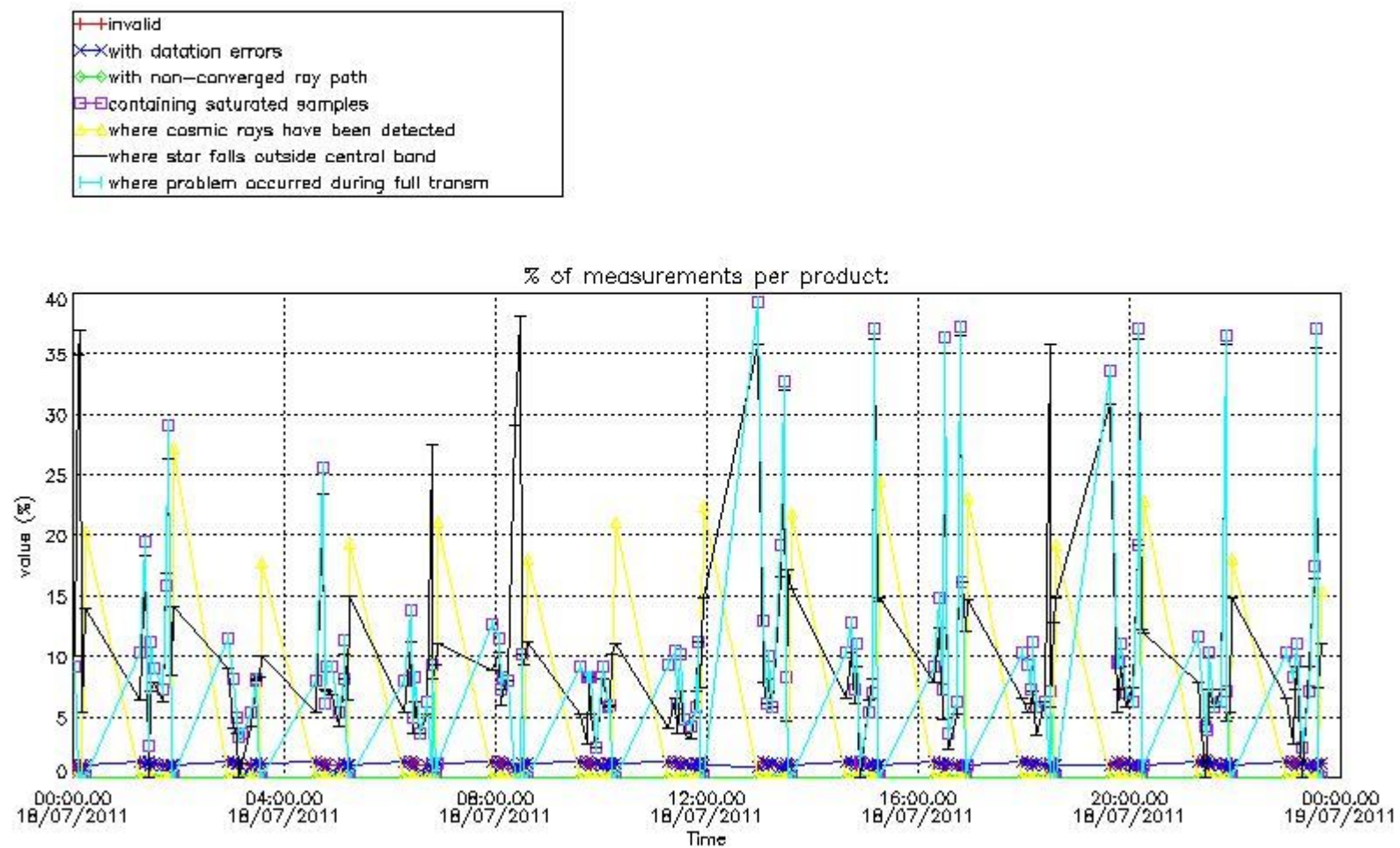
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

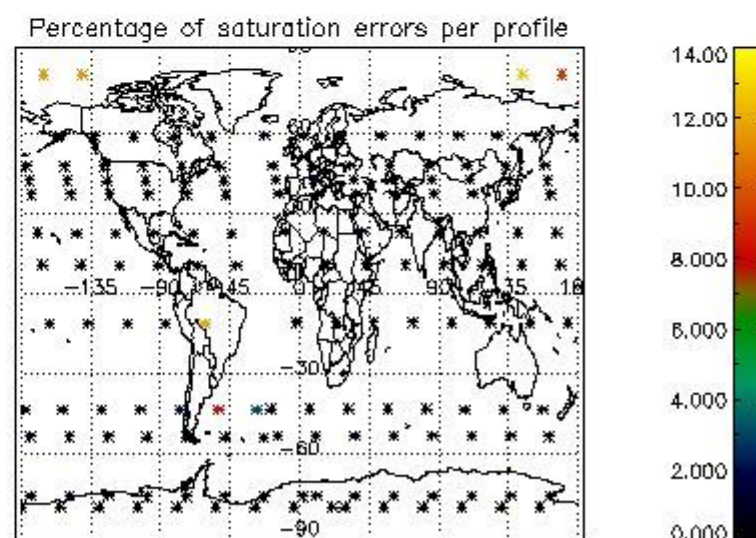
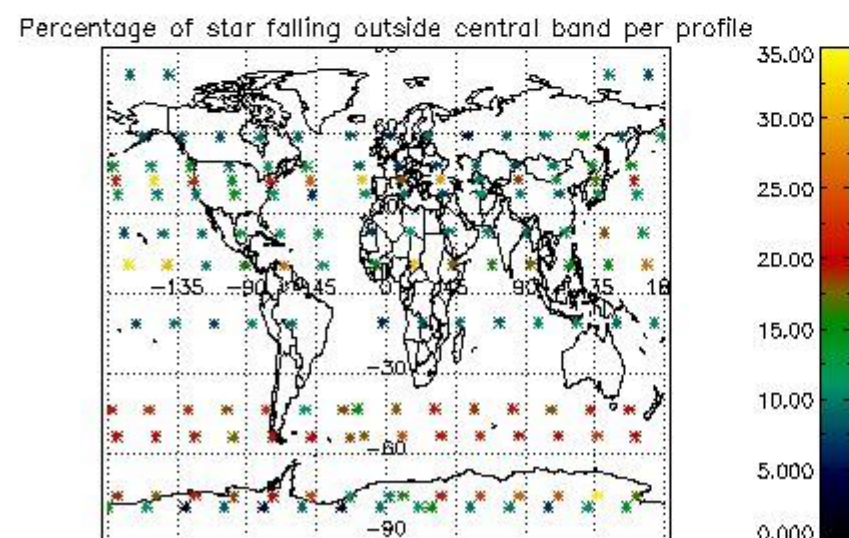
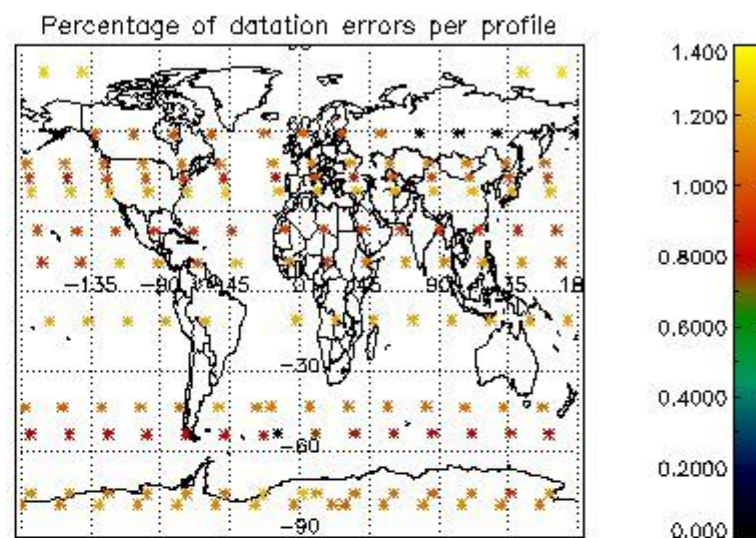
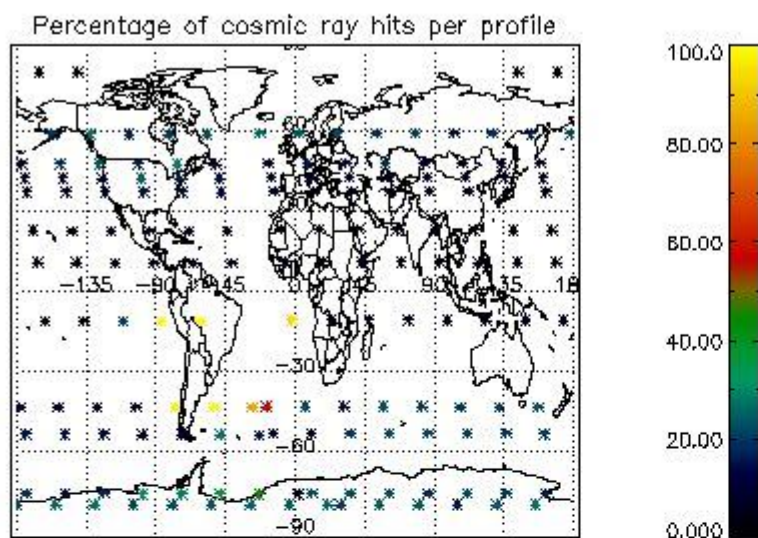


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

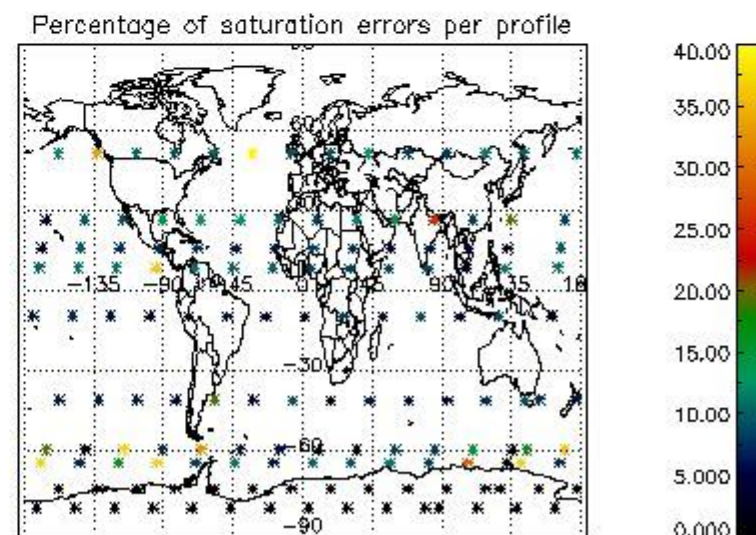
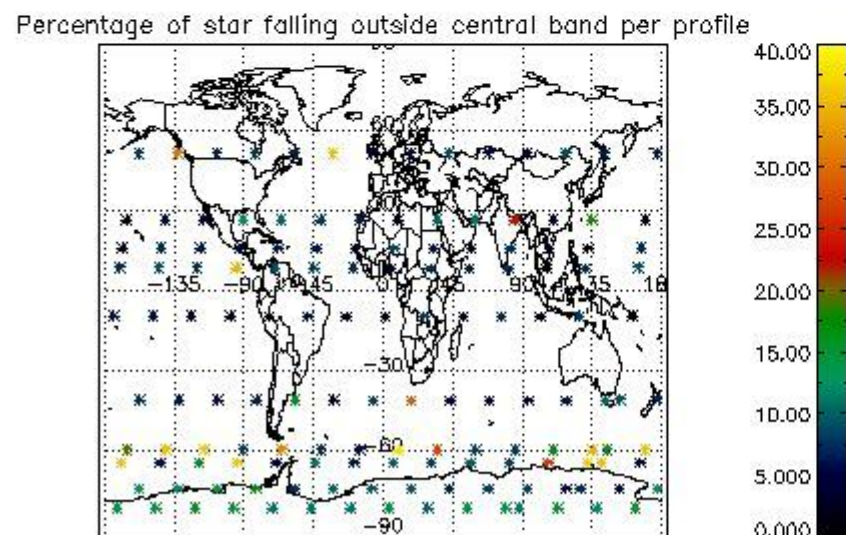
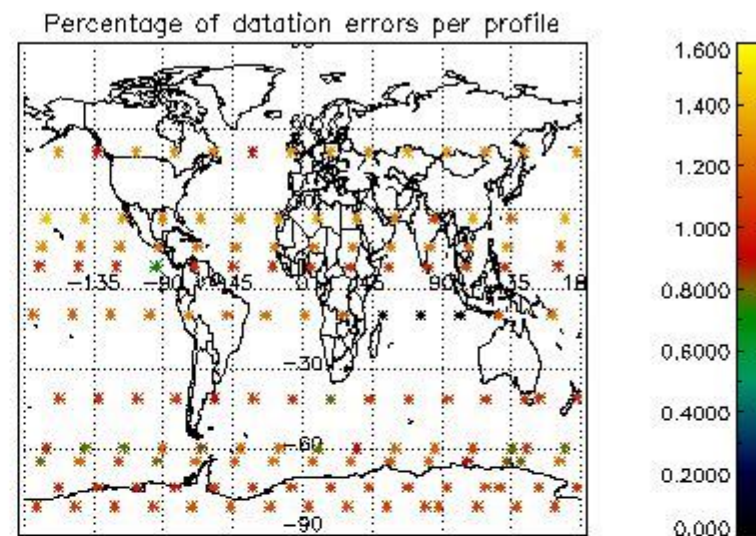
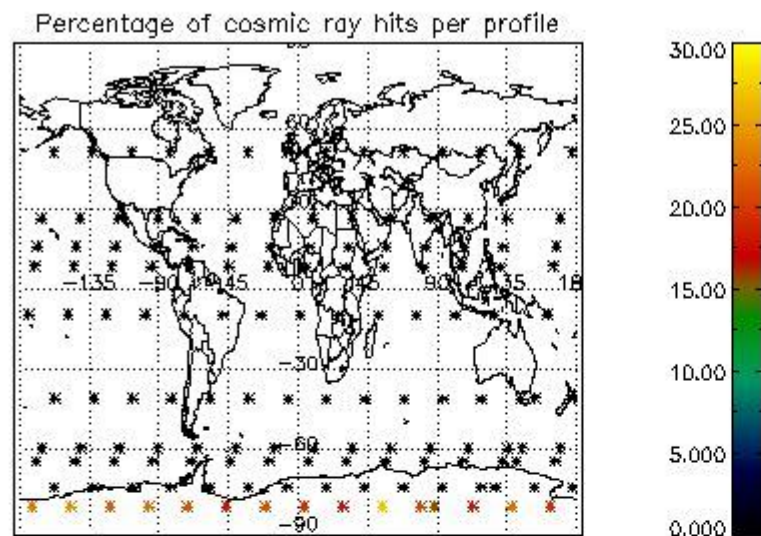


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

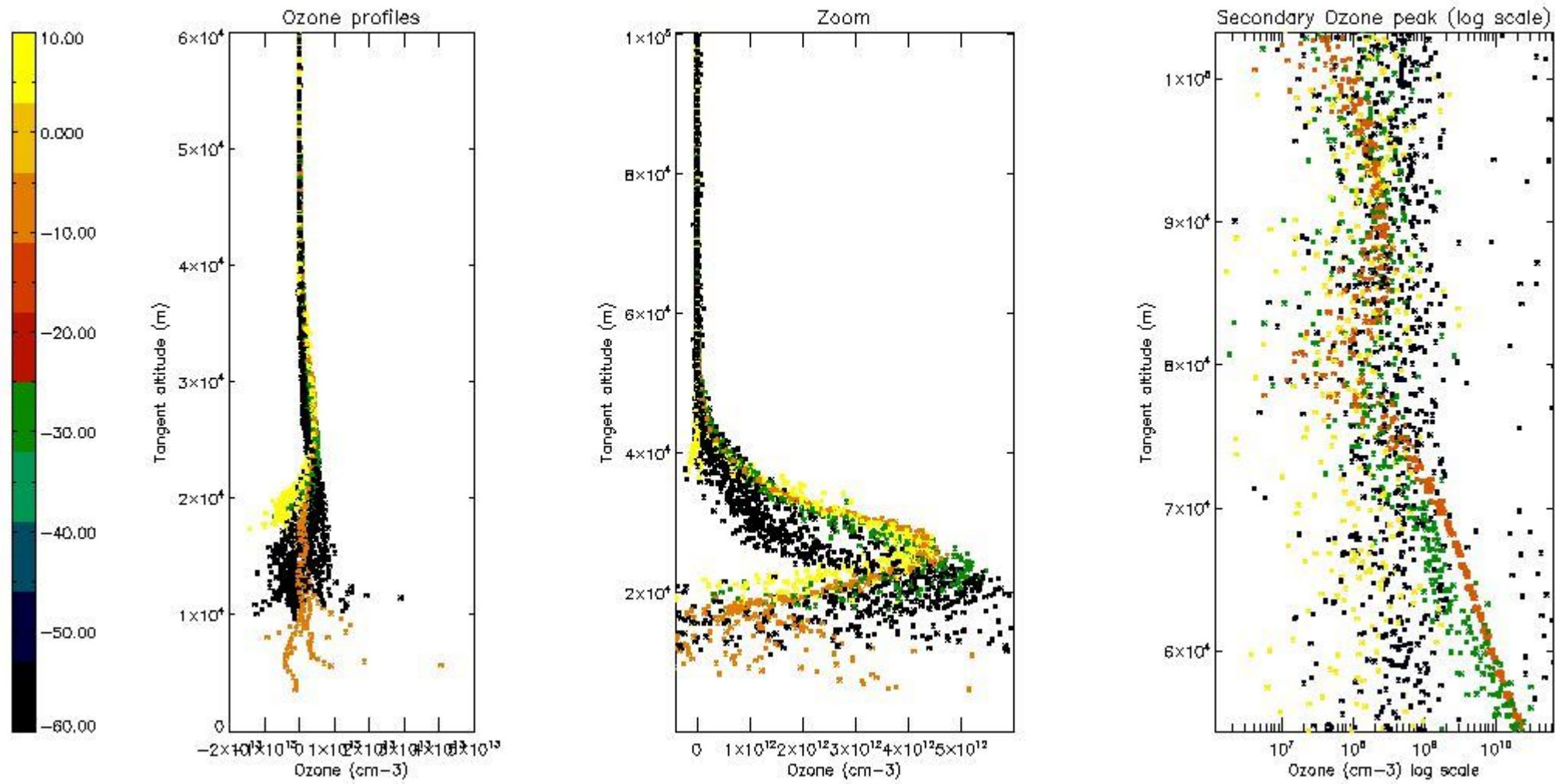
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	8

STD < 10	5
STD < 5	2

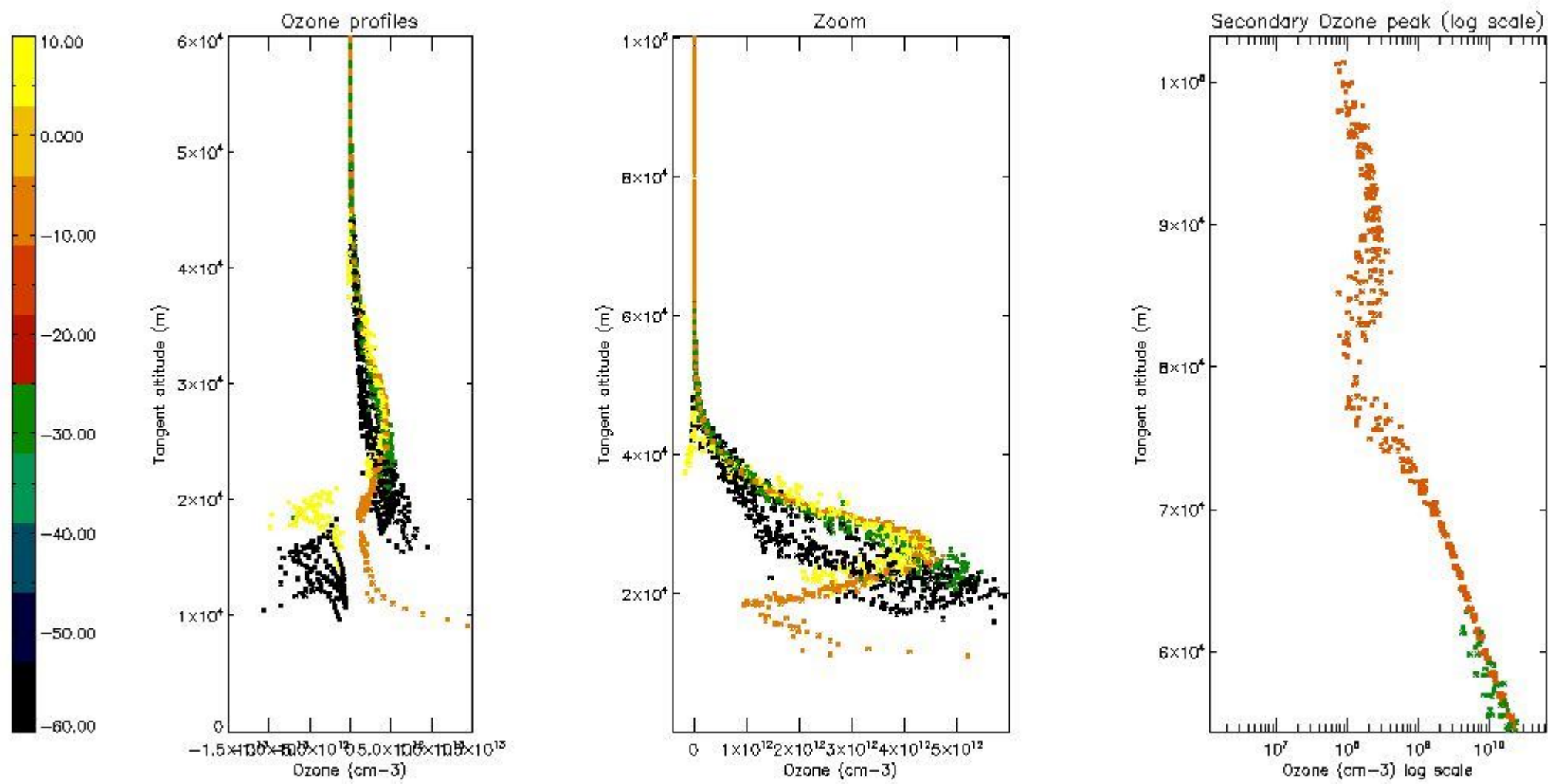
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



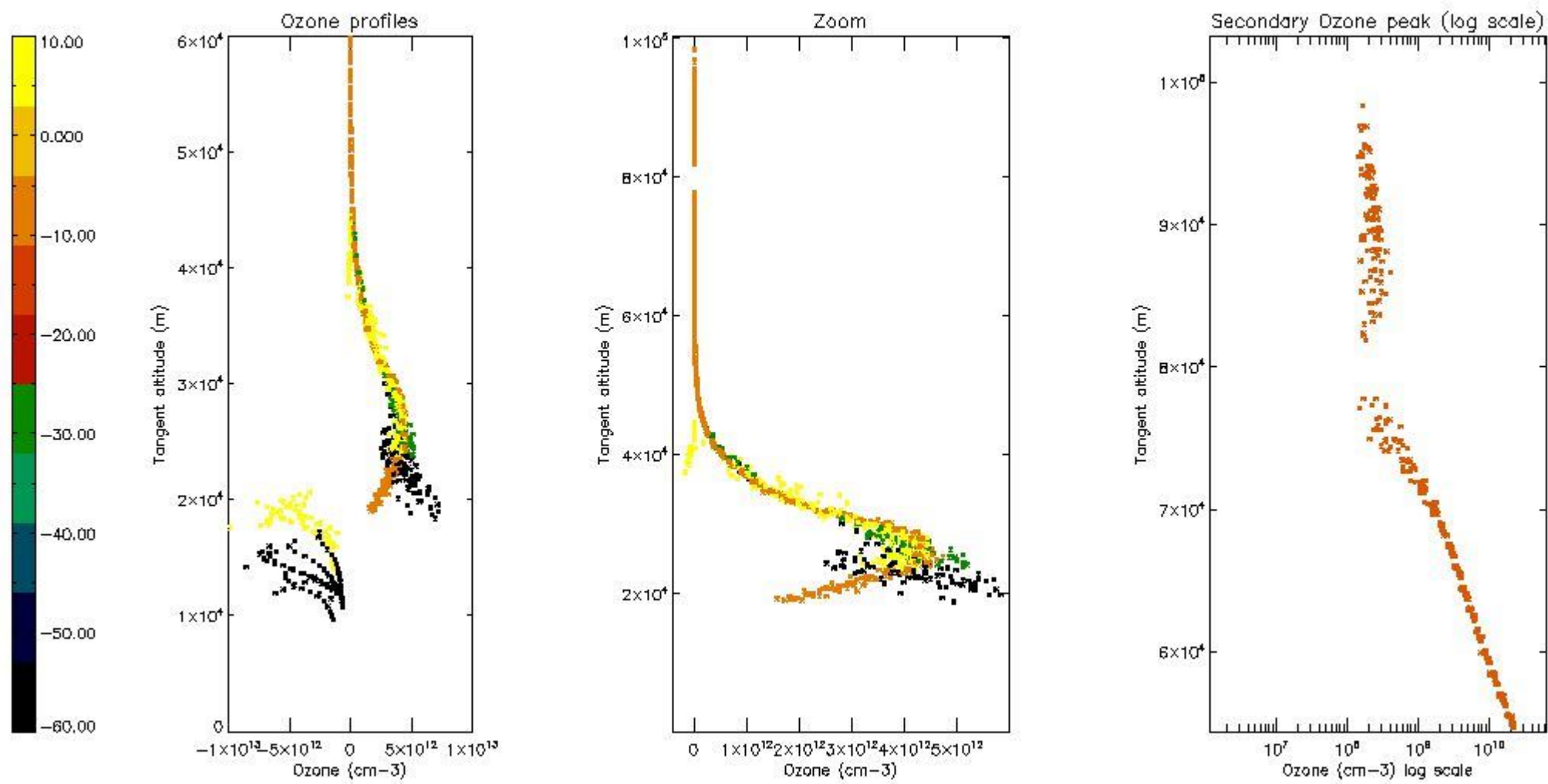
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



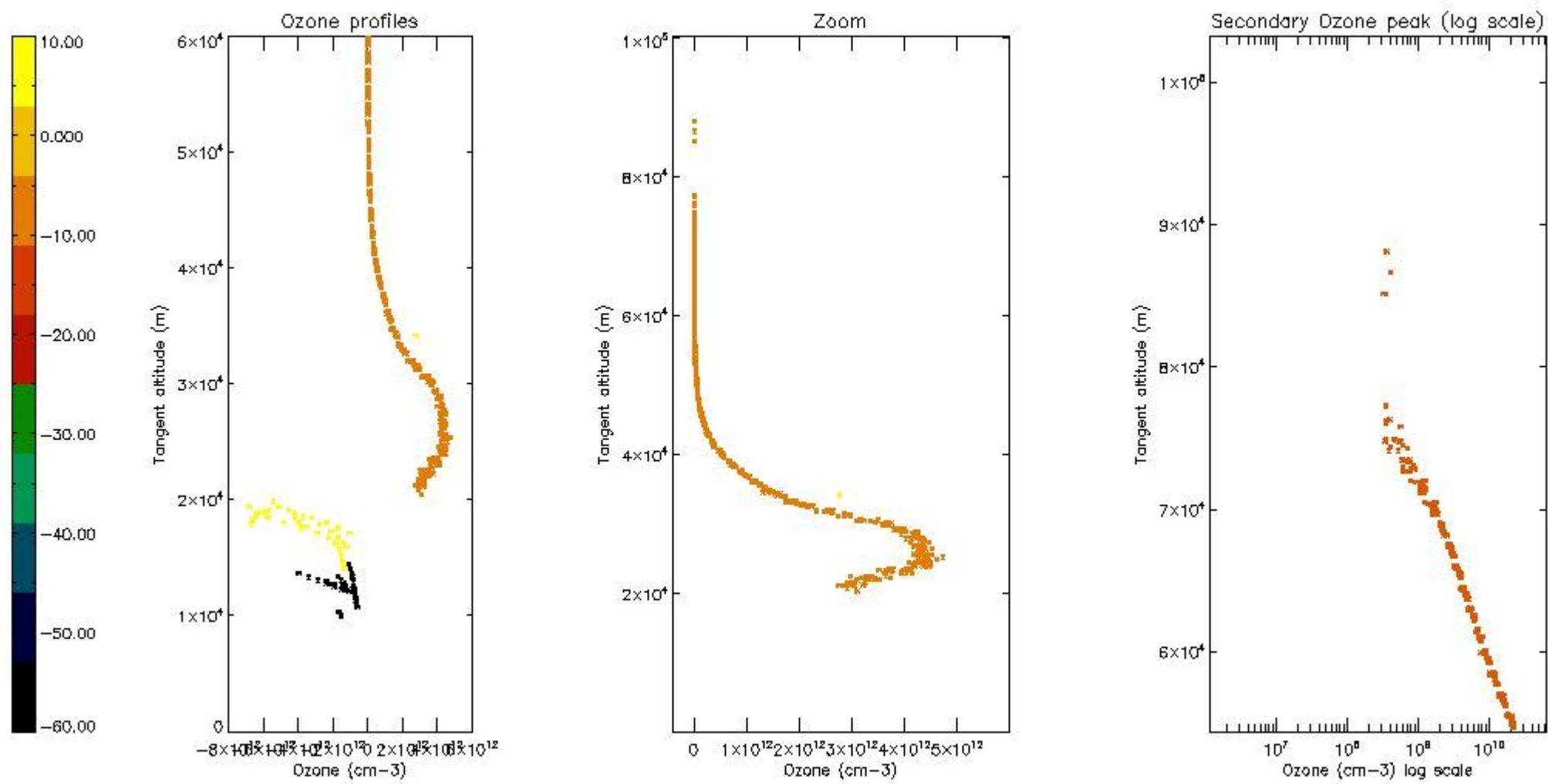
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



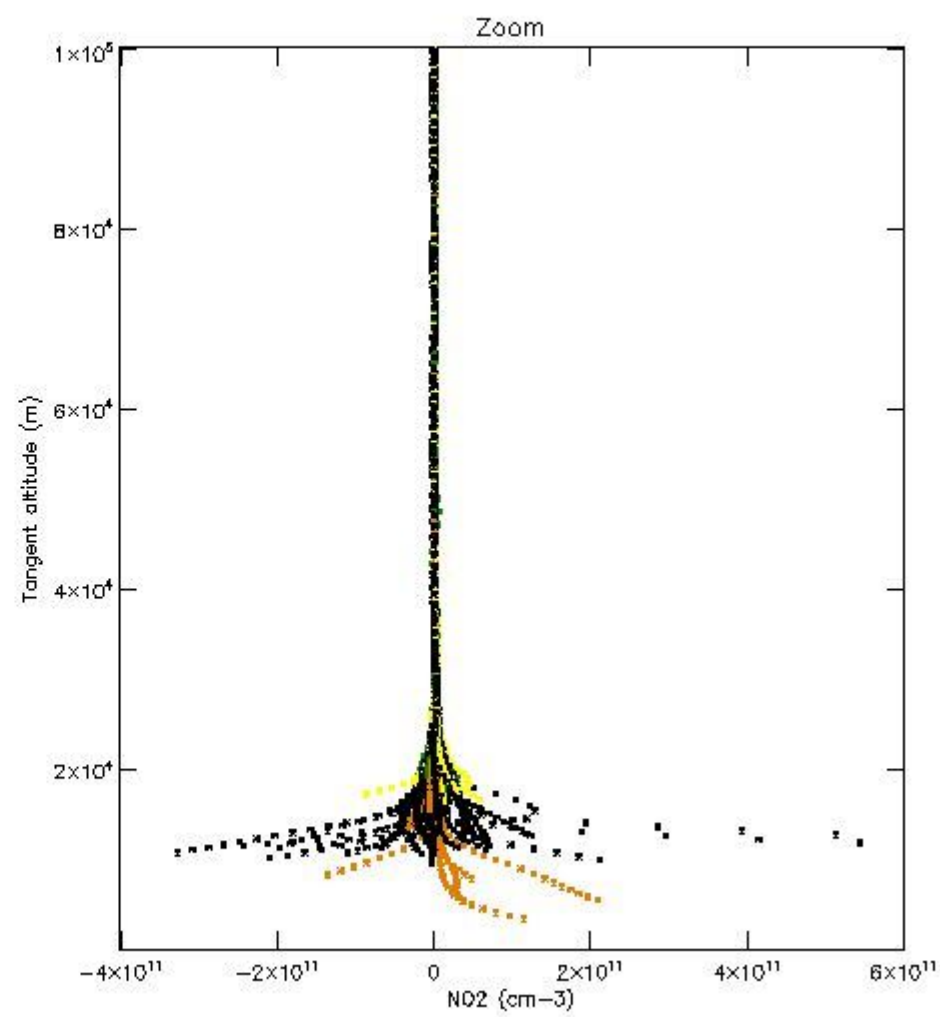
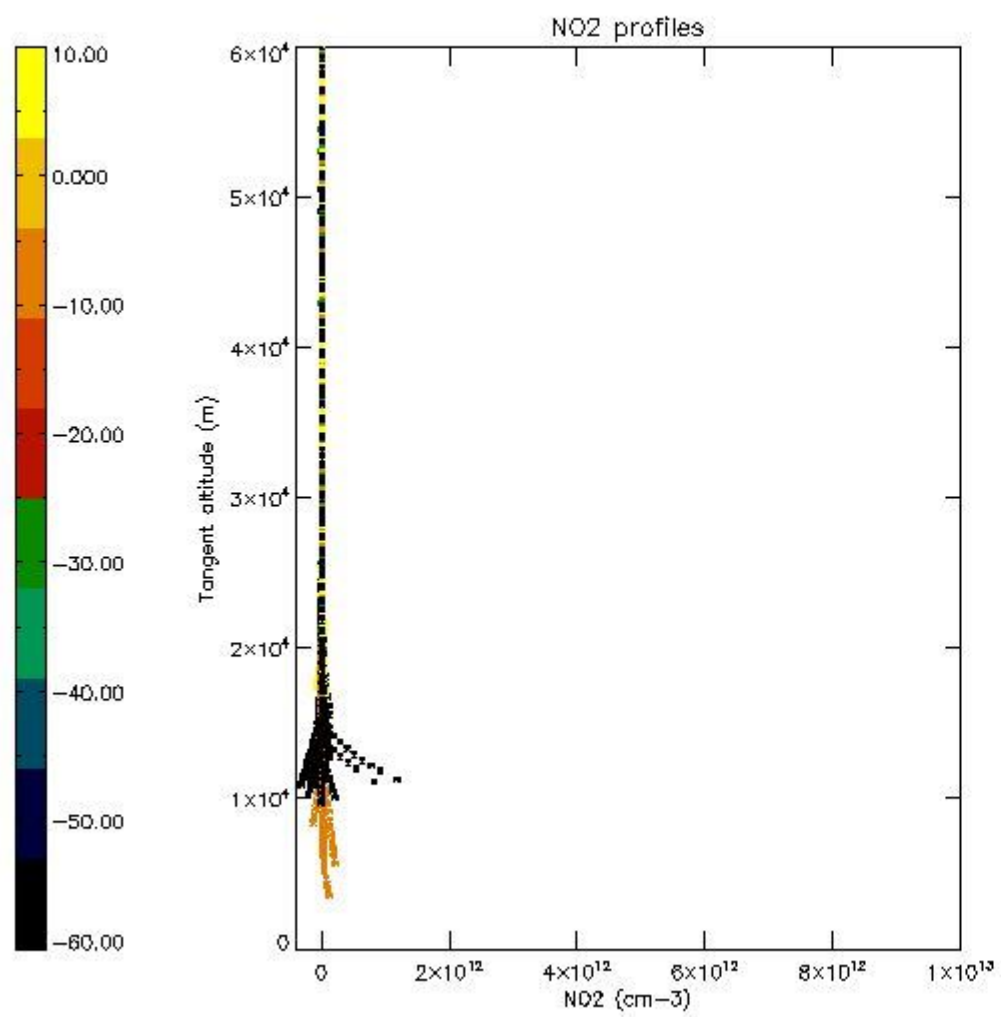
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



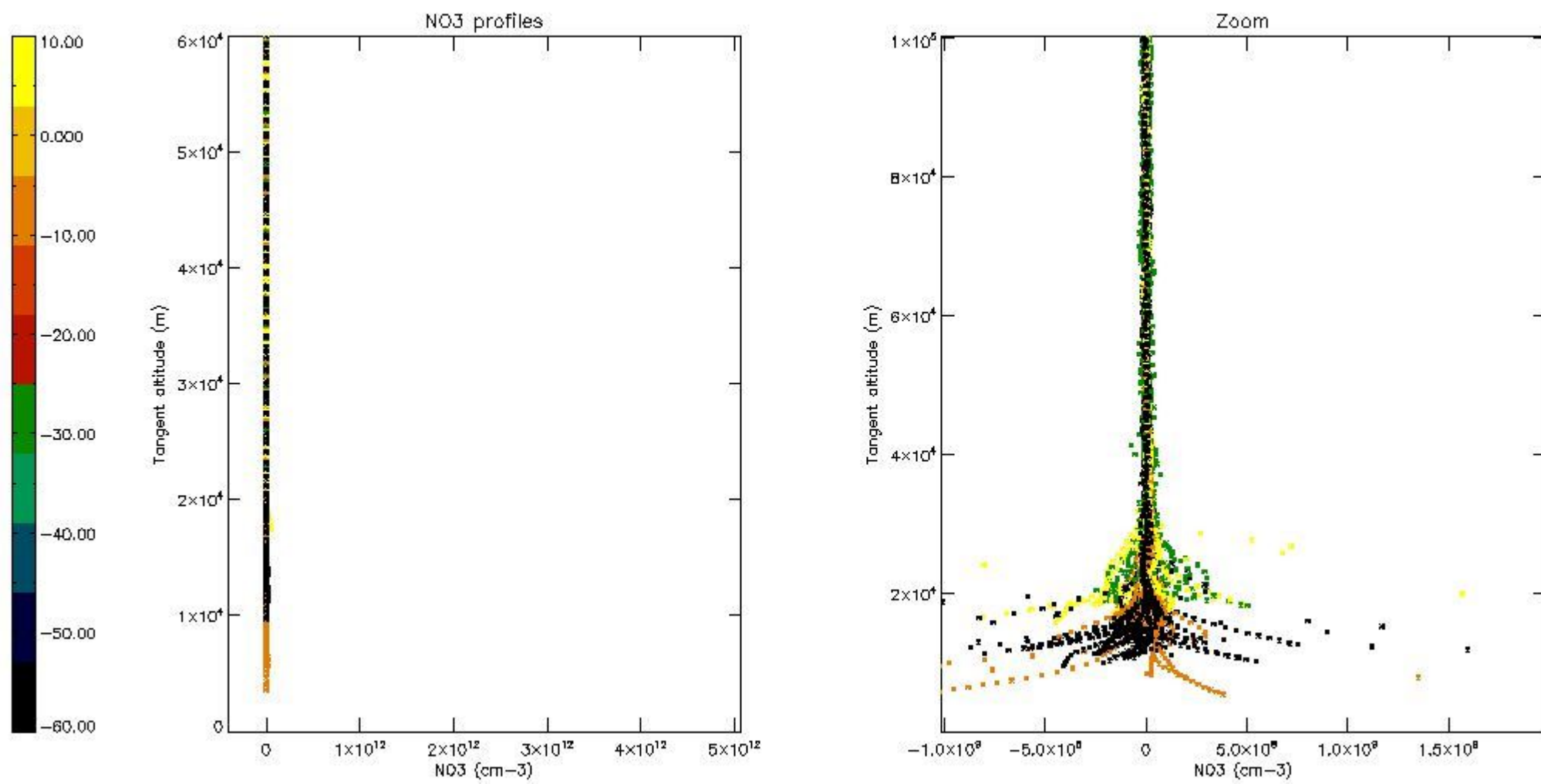
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



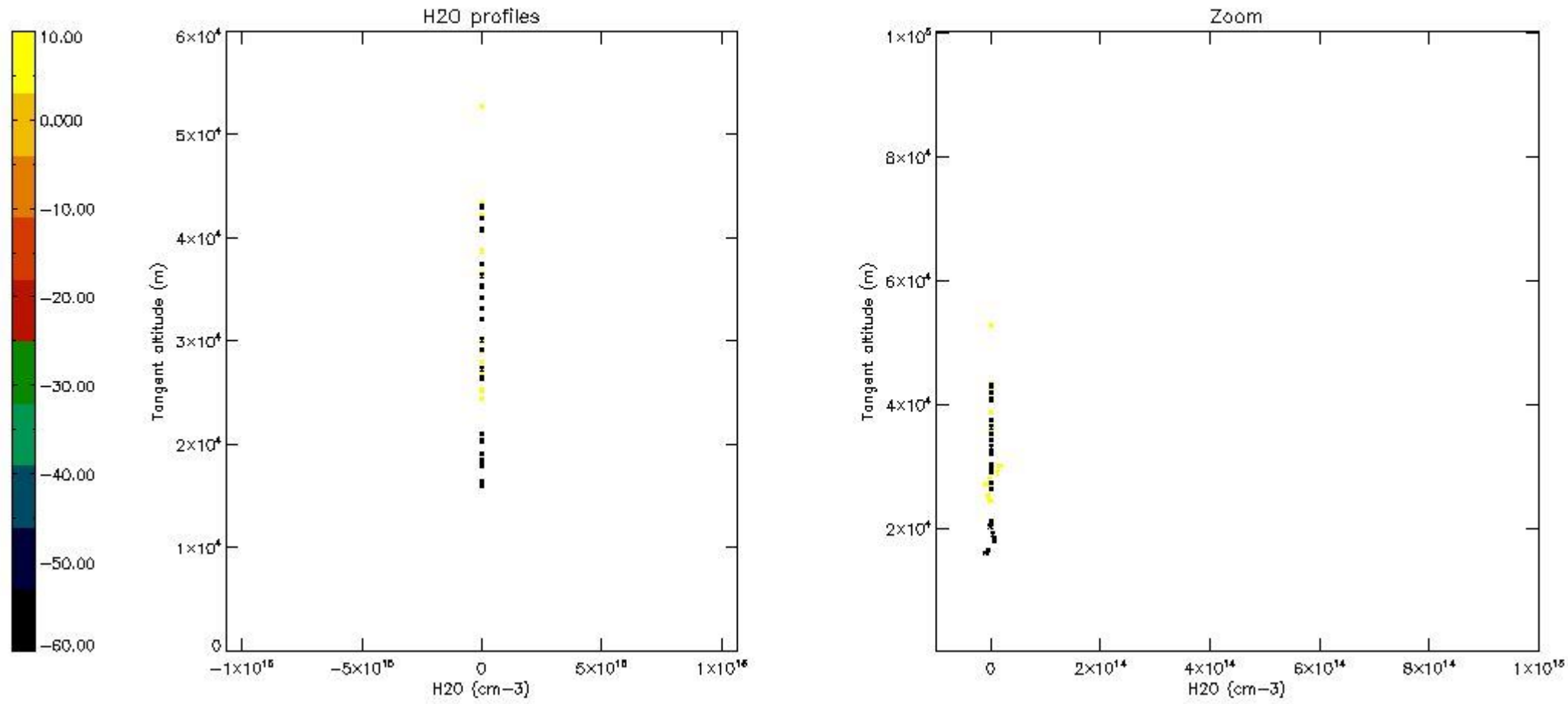
5.7 Plot NO3 profiles for all STD (dark without errors)

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-JUL-2011 00:01:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	18-JUL-2011 00:01:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	18-JUL-2011 00:01:18

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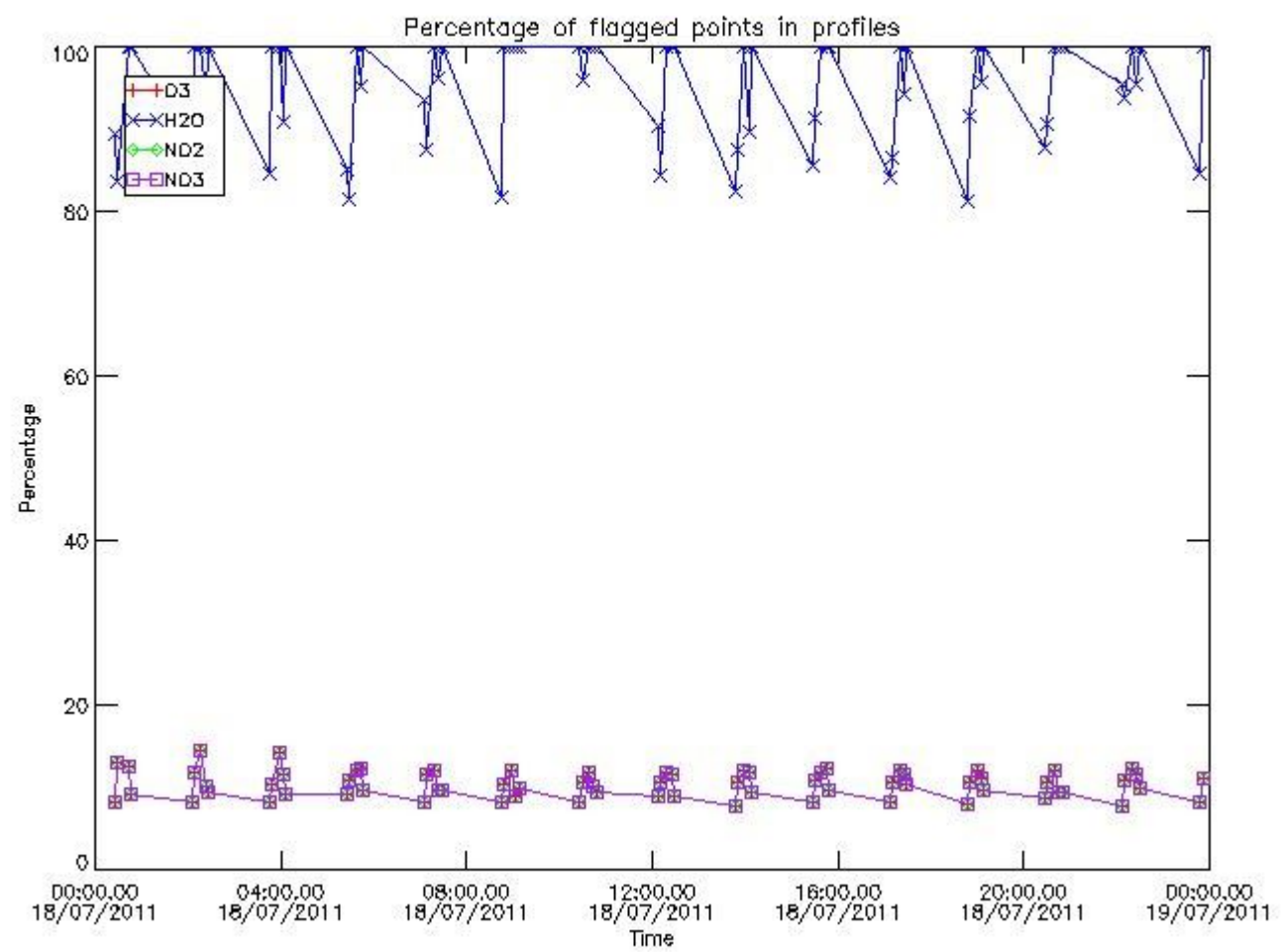
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297	GOM_NL__2PRFIN20110718_231538_000000413104_00346_49067_7427.N1	18-JUL-2011 23:15:38	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	49067	No
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301	GOM_NL__2PRFIN20110718_233410_000000473104_00346_49067_7431.N1	18-JUL-2011 23:34:10	Bright	47.000	79	26Bet Per	2.3100	13100.	94	49067	No
302	GOM_NL__2PRFIN20110718_233713_000000463104_00346_49067_7432.N1	18-JUL-2011 23:37:13	Twilight	45.500	150	44Zet Per	2.8900	28000.	91	49067	No
303	GOM_NL__2PRFIN20110718_233953_000000493104_00346_49067_7433.N1	18-JUL-2011 23:39:53	Twilight	49.000	146	25Eta Tau	2.8730	15200.	98	49067	No
304	GOM_NL__2PRFIN20110718_234129_000000453104_00346_49067_7434.N1	18-JUL-2011 23:41:29	Twilight	44.500	13	87Alp Tau	0.86700	3800.0	89	49067	No
305	GOM_NL__2PRFIN20110718_234819_000000623104_00346_49067_7435.N1	18-JUL-2011 23:48:19	Dark	61.500	94	92Alp Cet	2.5260	3100.0	123	49067	No
306	GOM_NL__2PRFIN20110718_235108_000000463104_00346_49067_7436.N1	18-JUL-2011 23:51:08	Dark	46.000	165	34Gam Eri	2.9500	3200.0	92	49067	No

3. Quality information per product

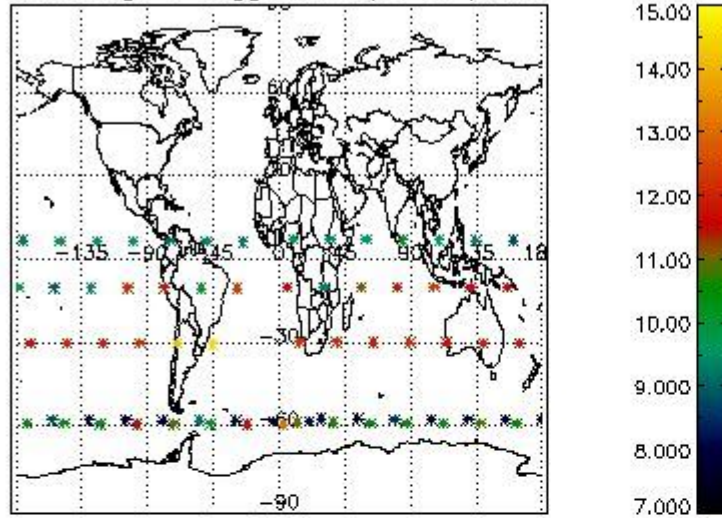
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

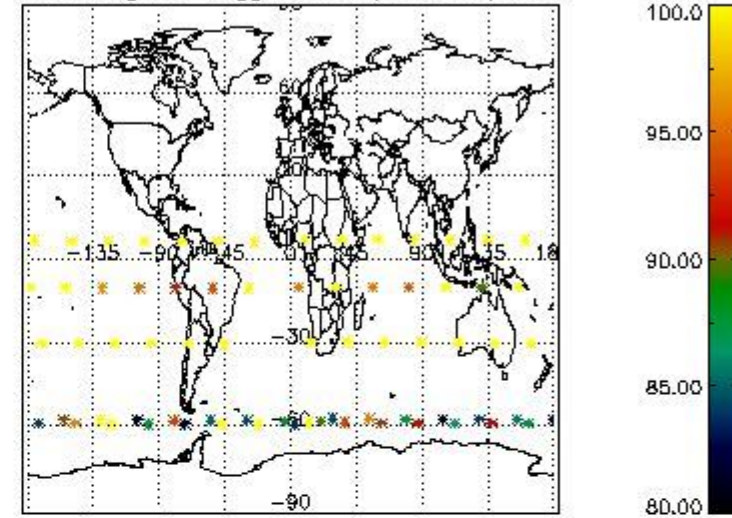


3.2 Plot quality information per product (world map)

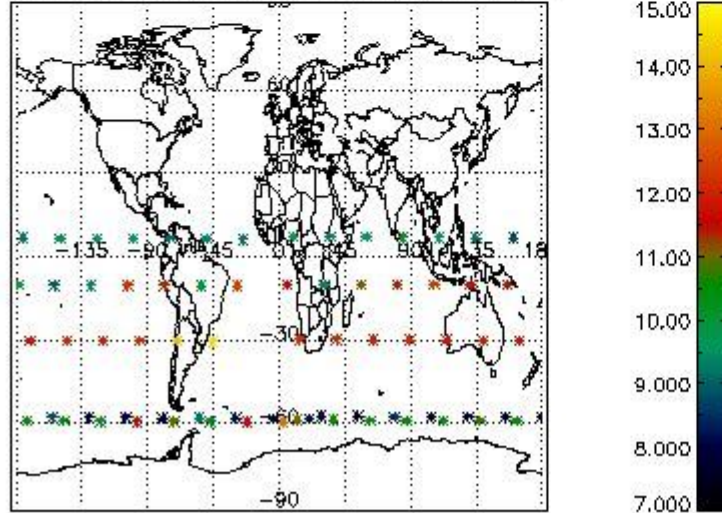
Percentage of flagged data per O3 profile



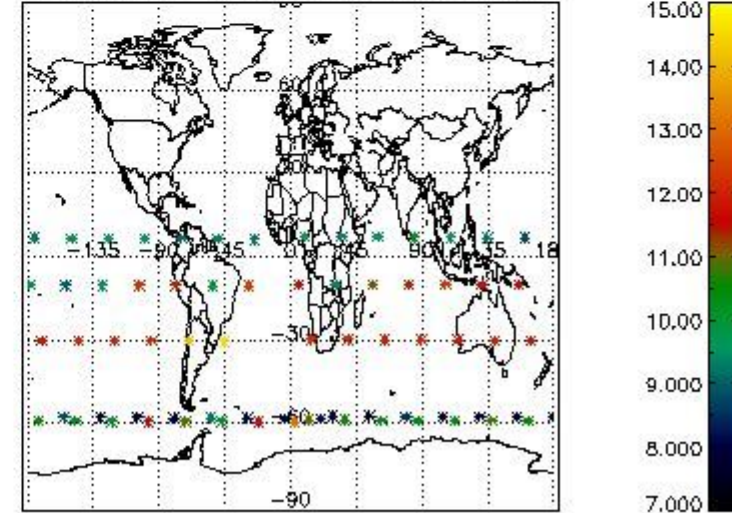
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

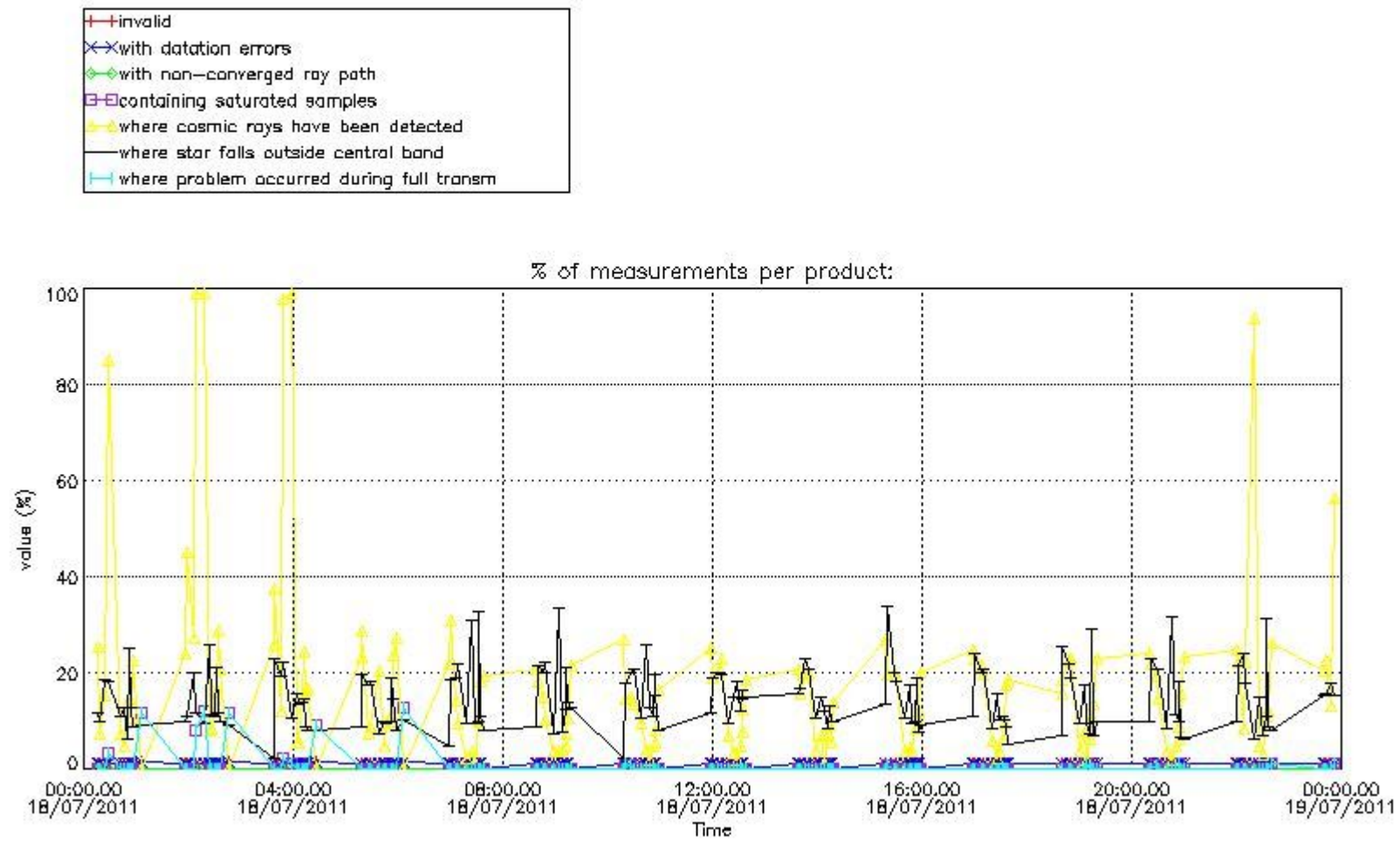


4. Level 1 quality information per product

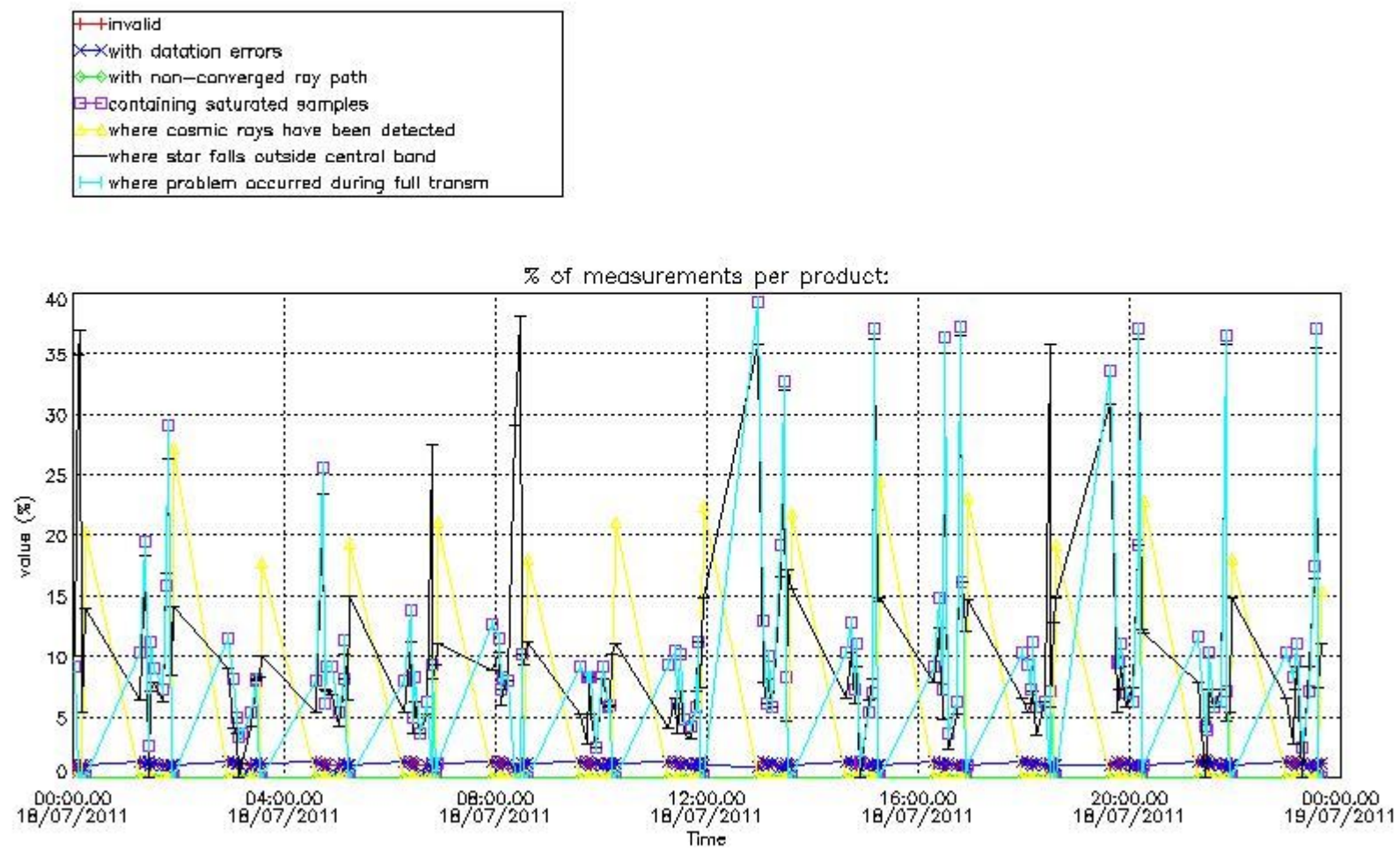
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

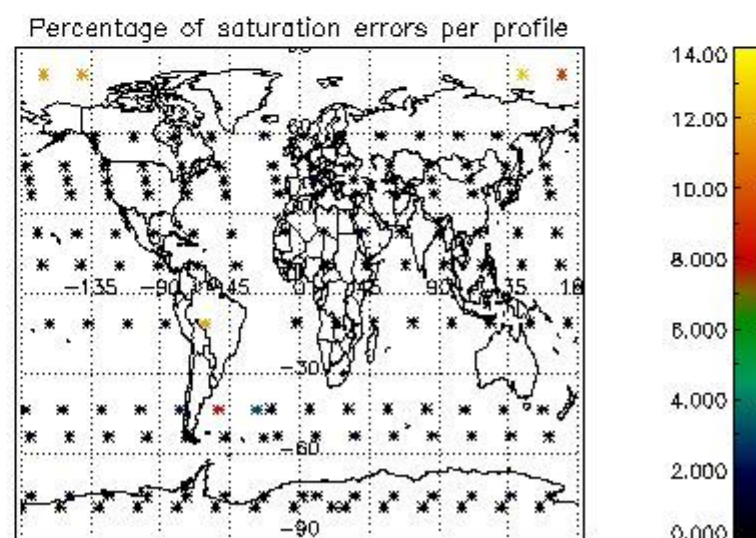
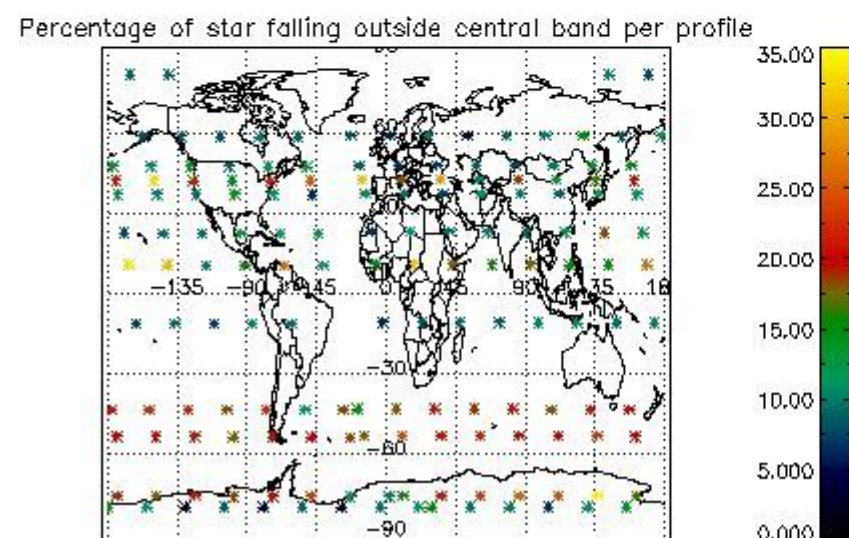
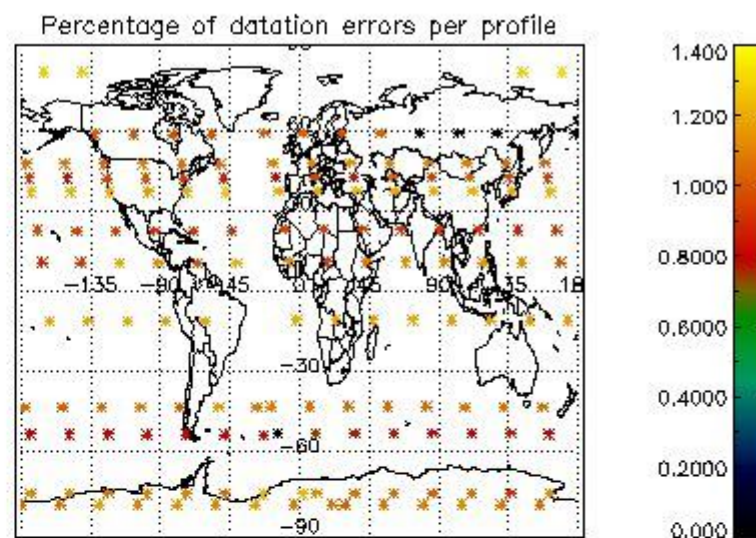
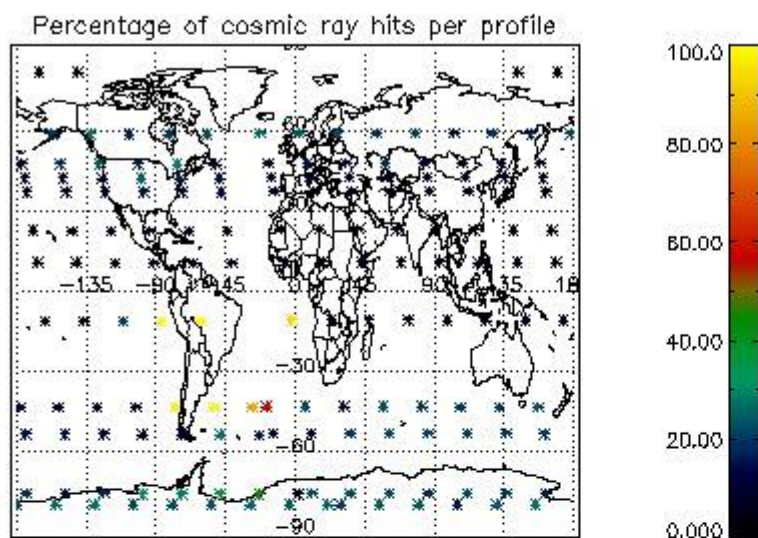


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

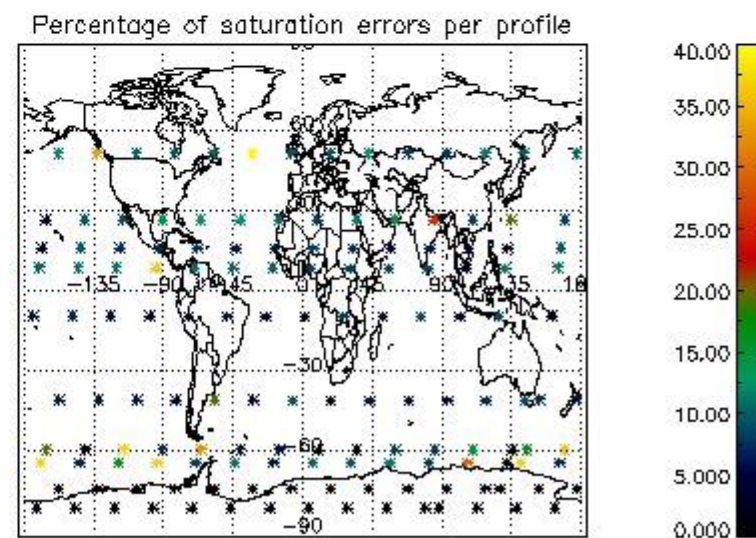
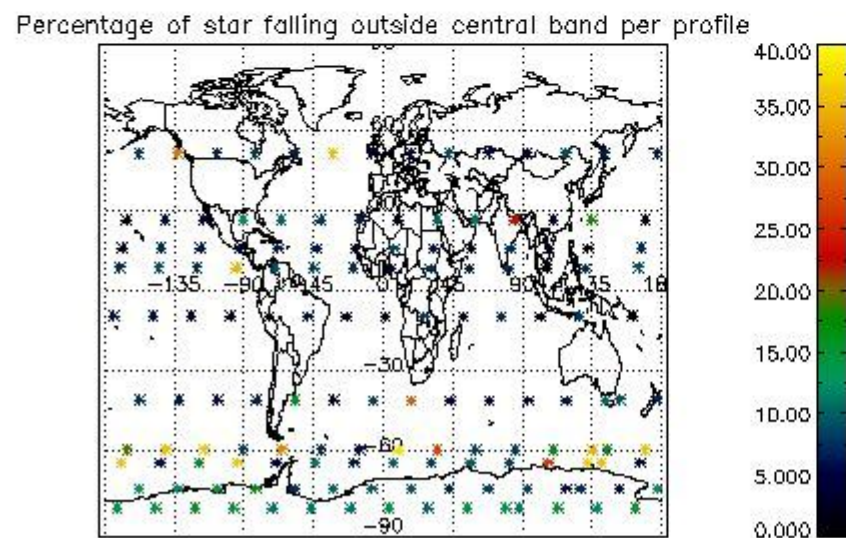
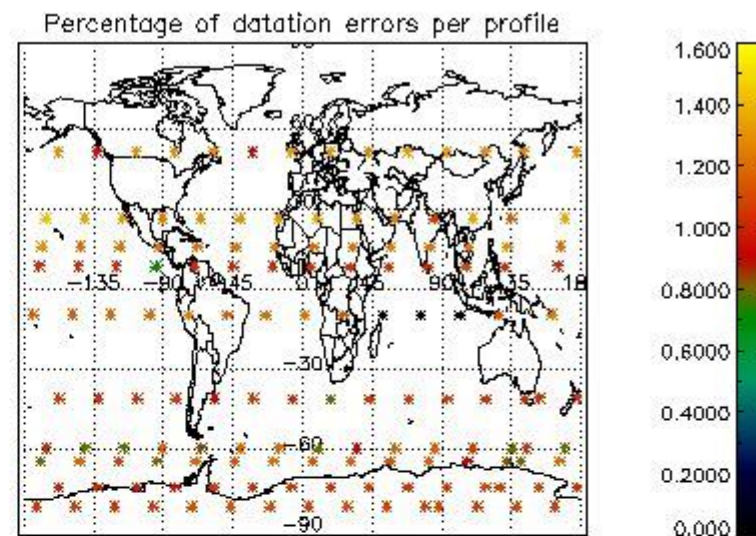
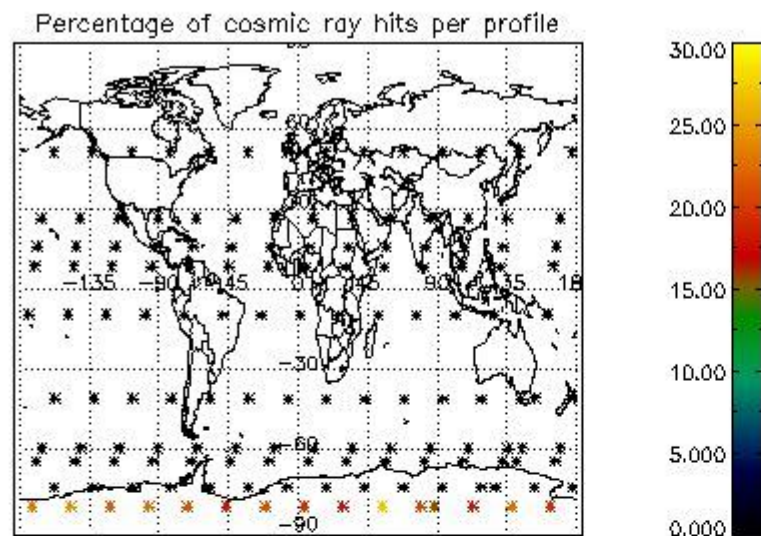


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

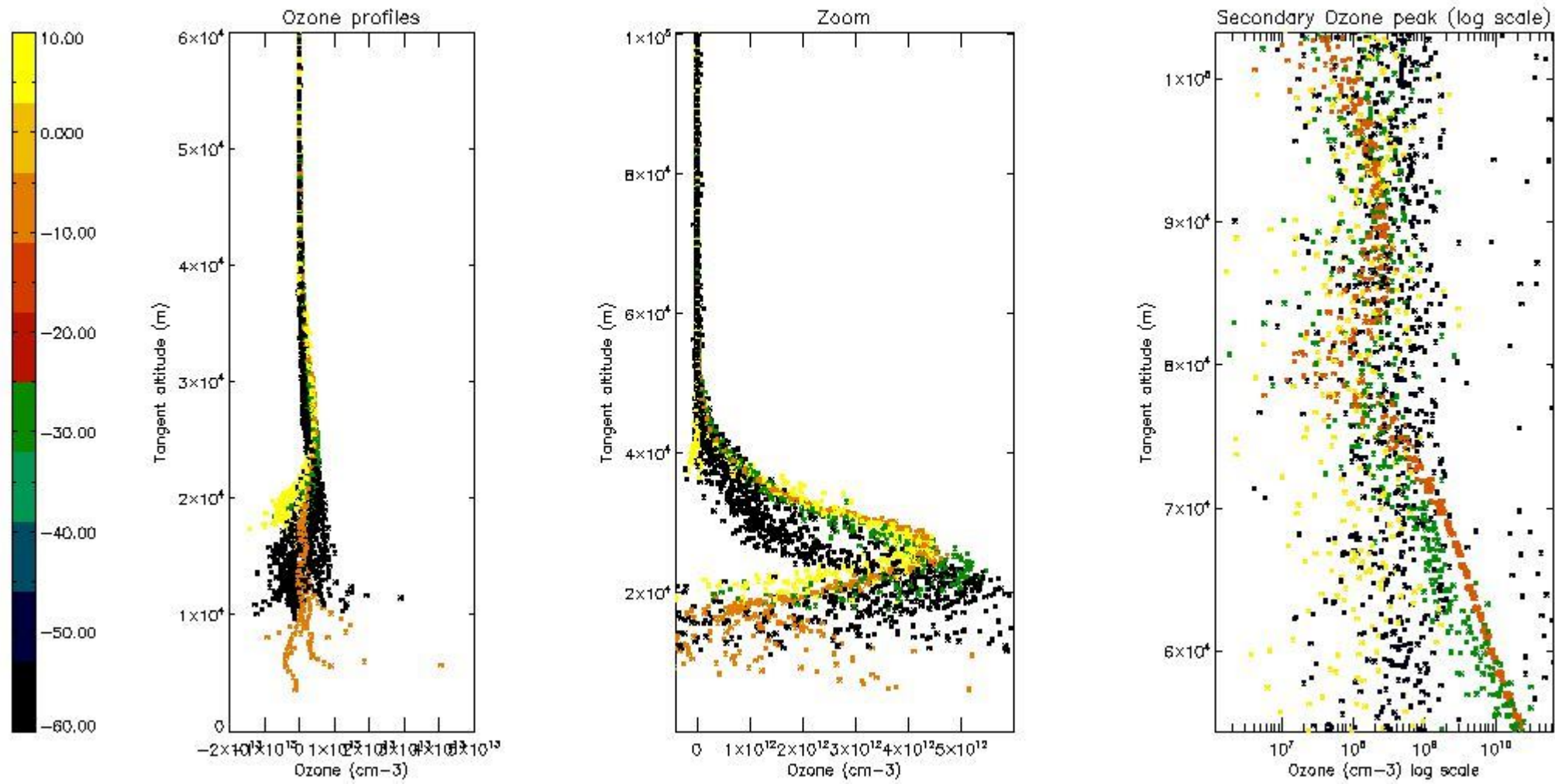
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	8

STD < 10	5
STD < 5	2

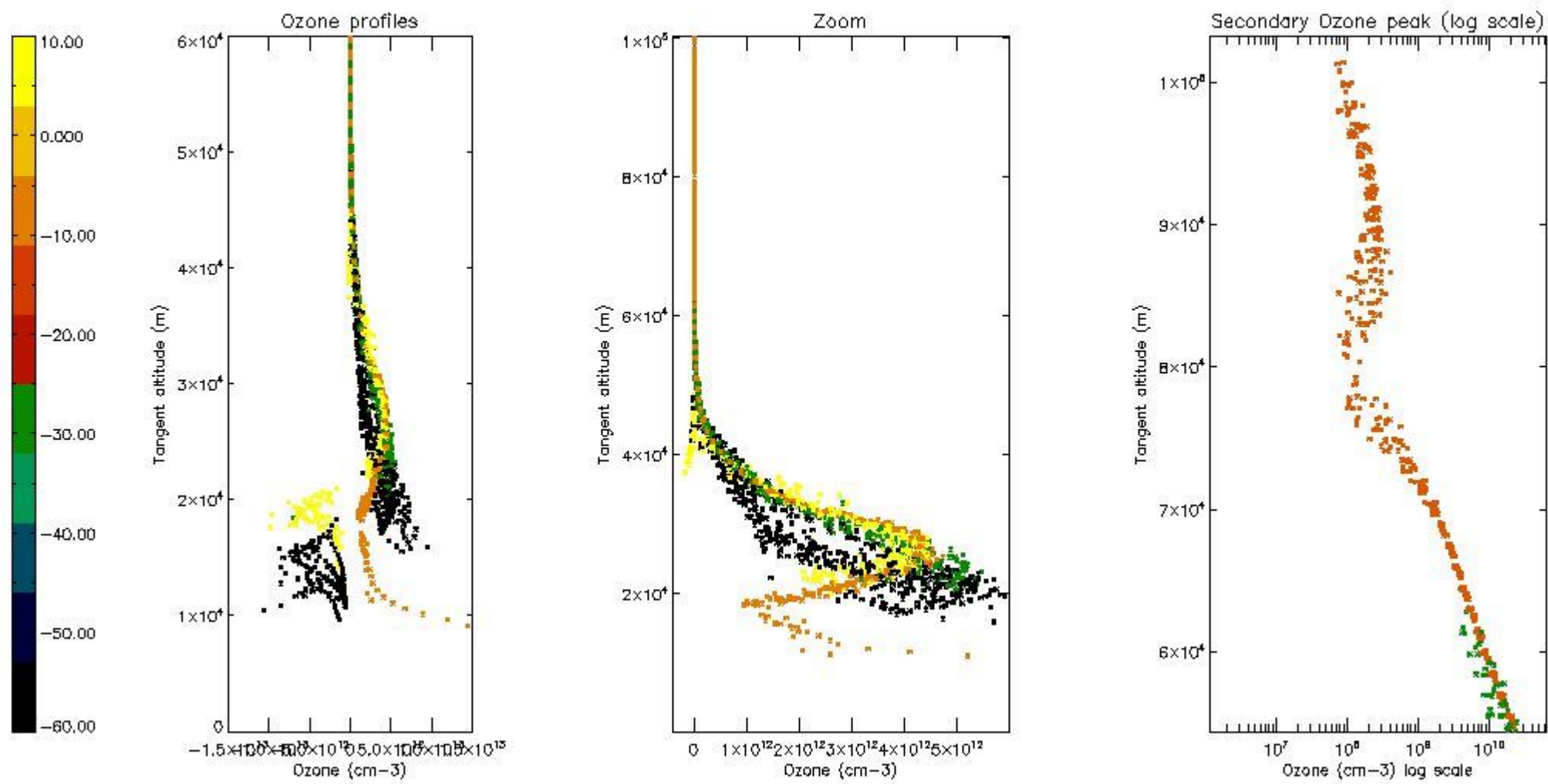
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



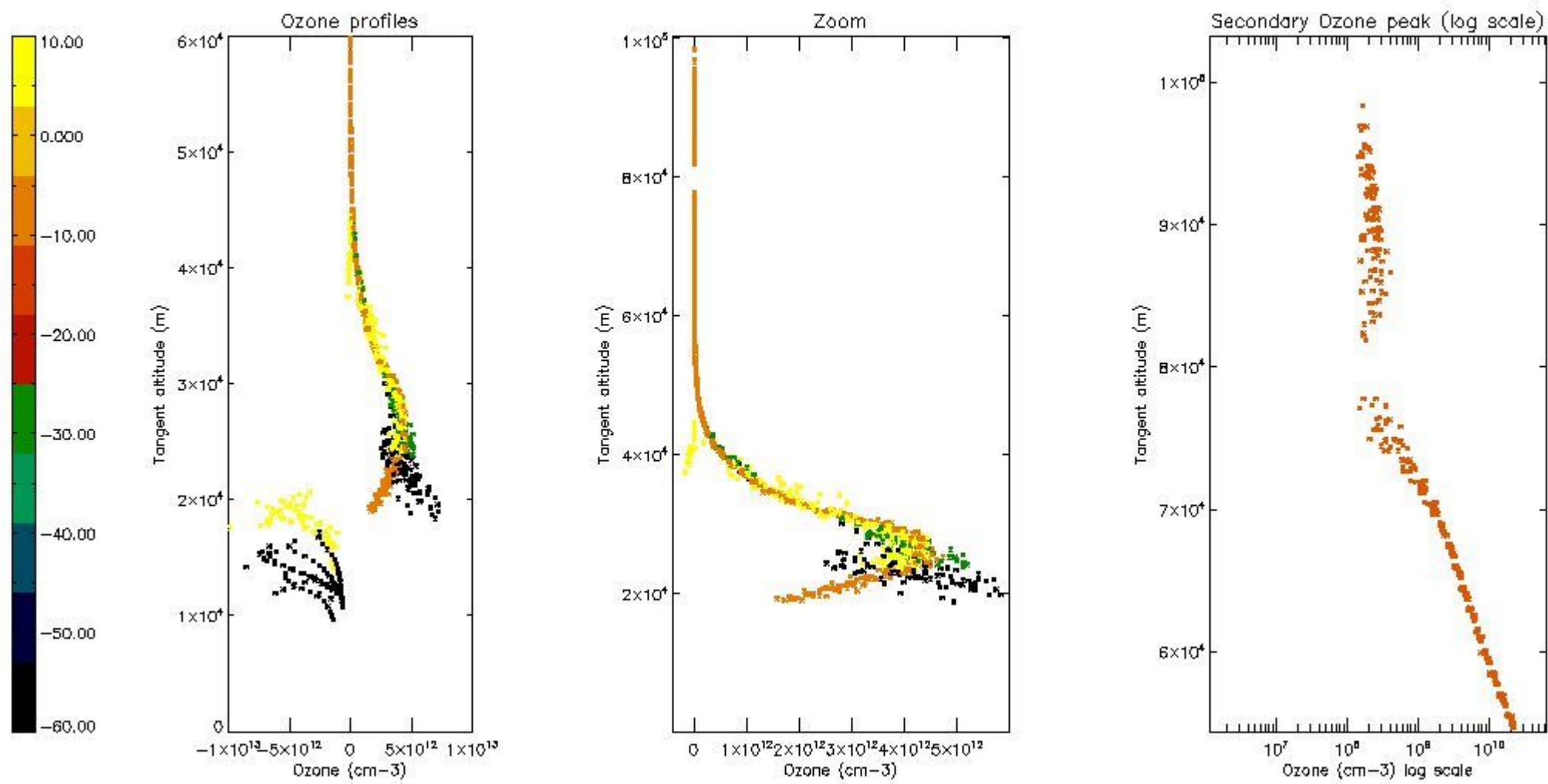
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



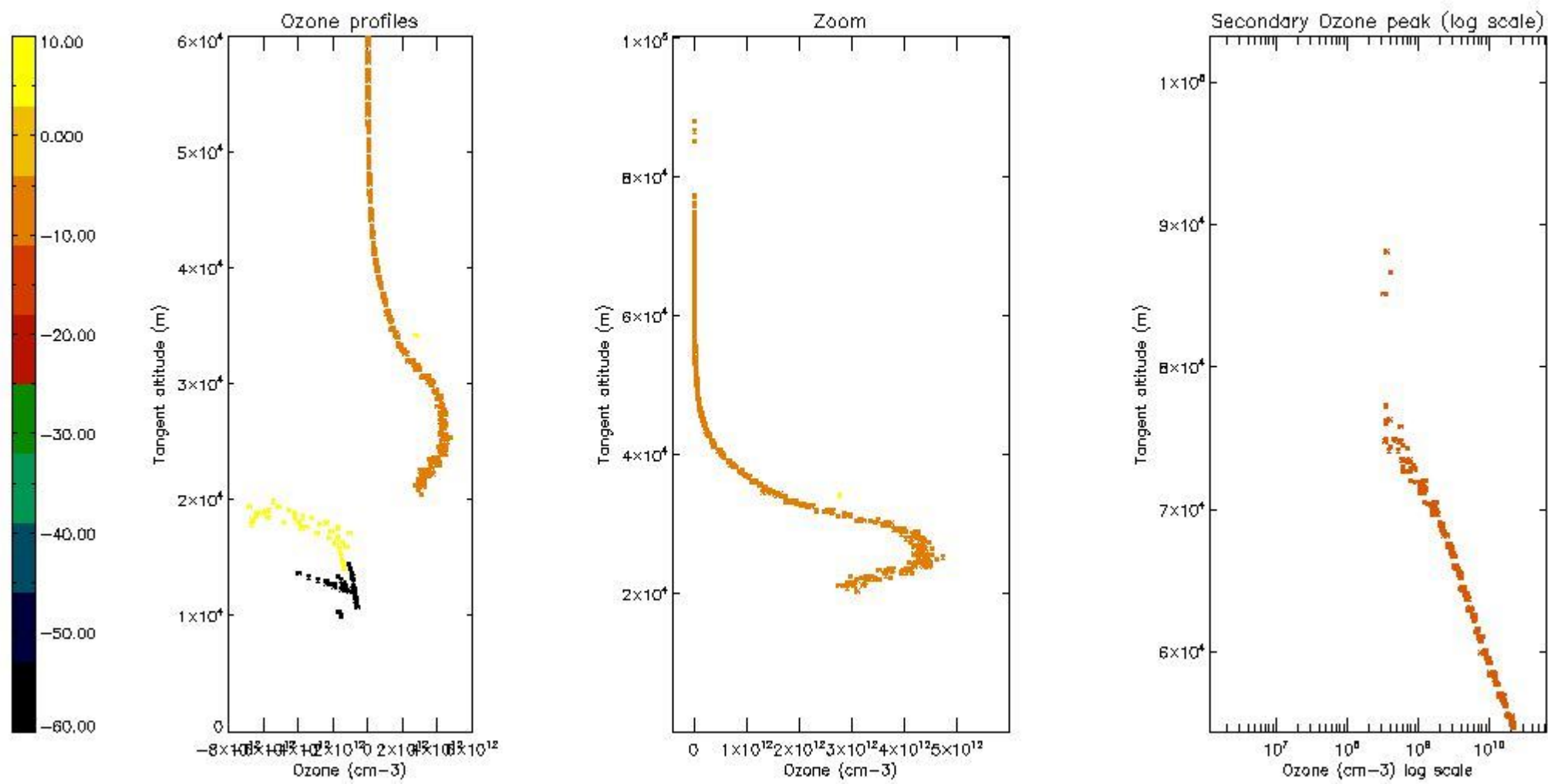
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



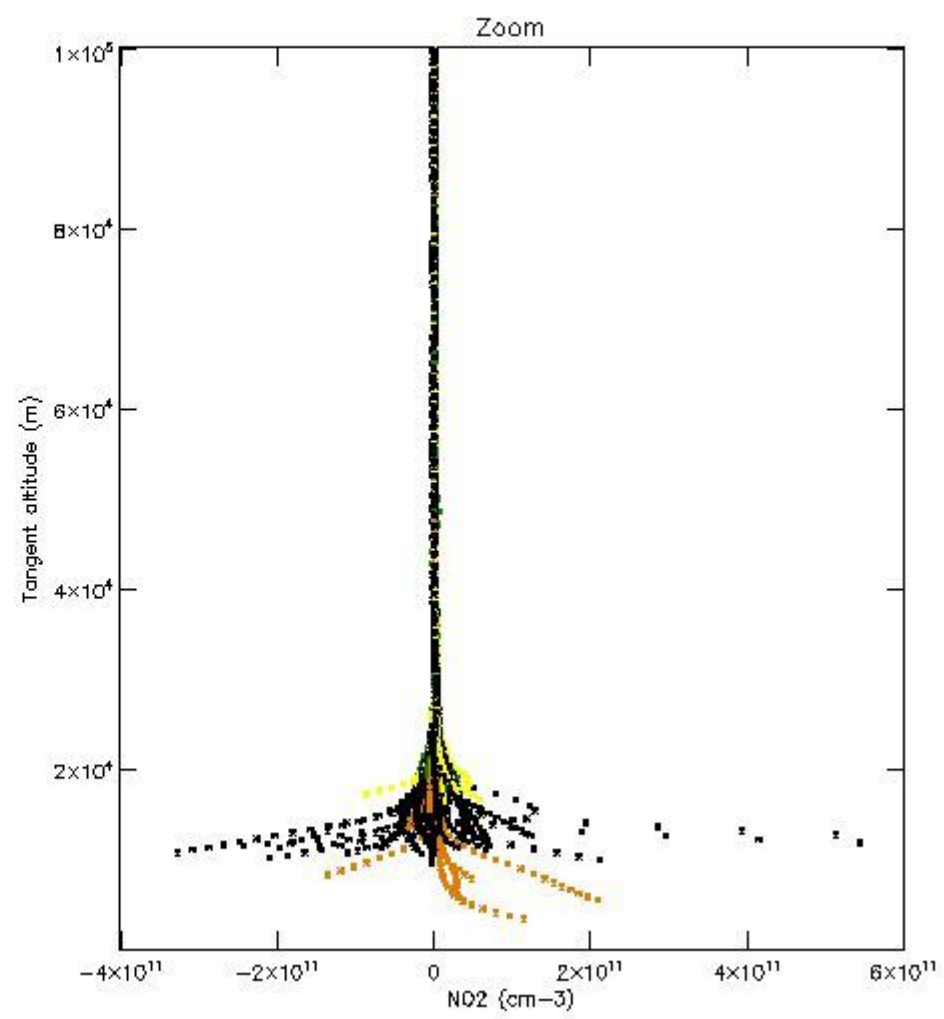
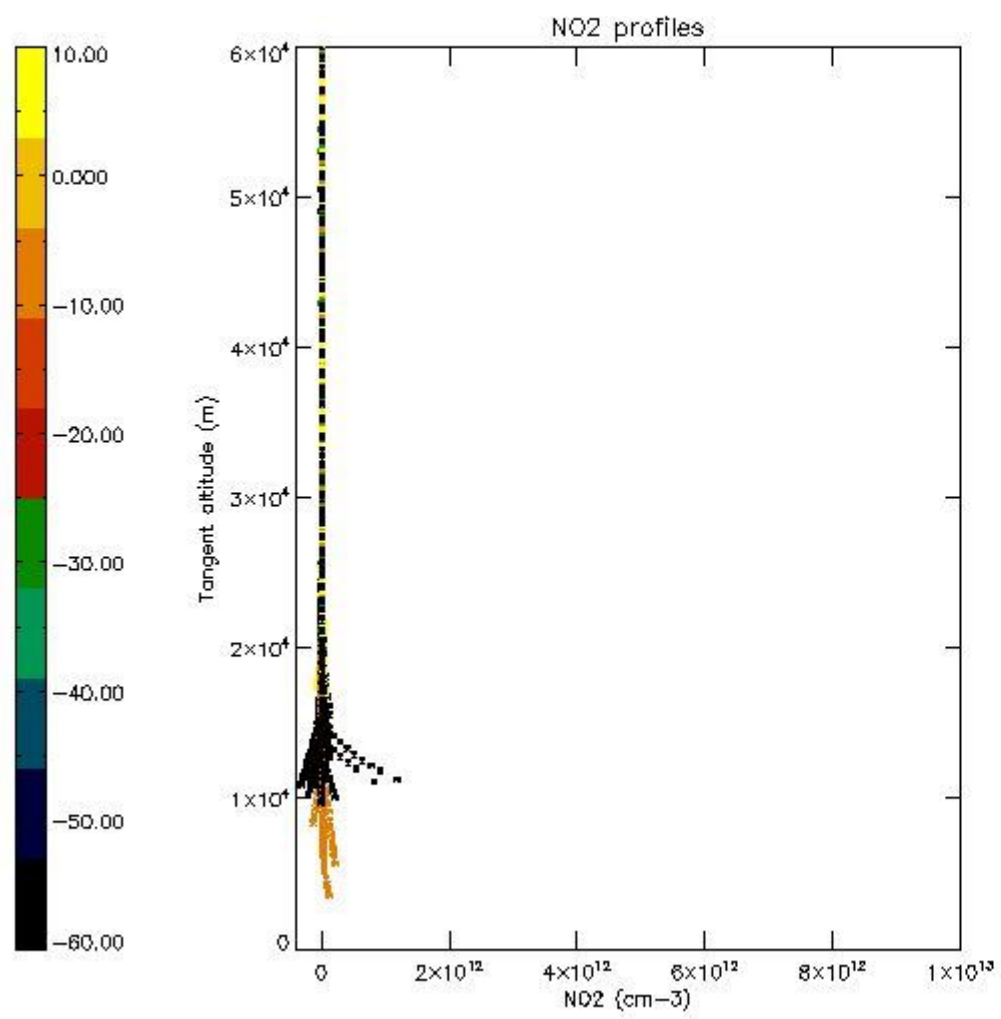
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



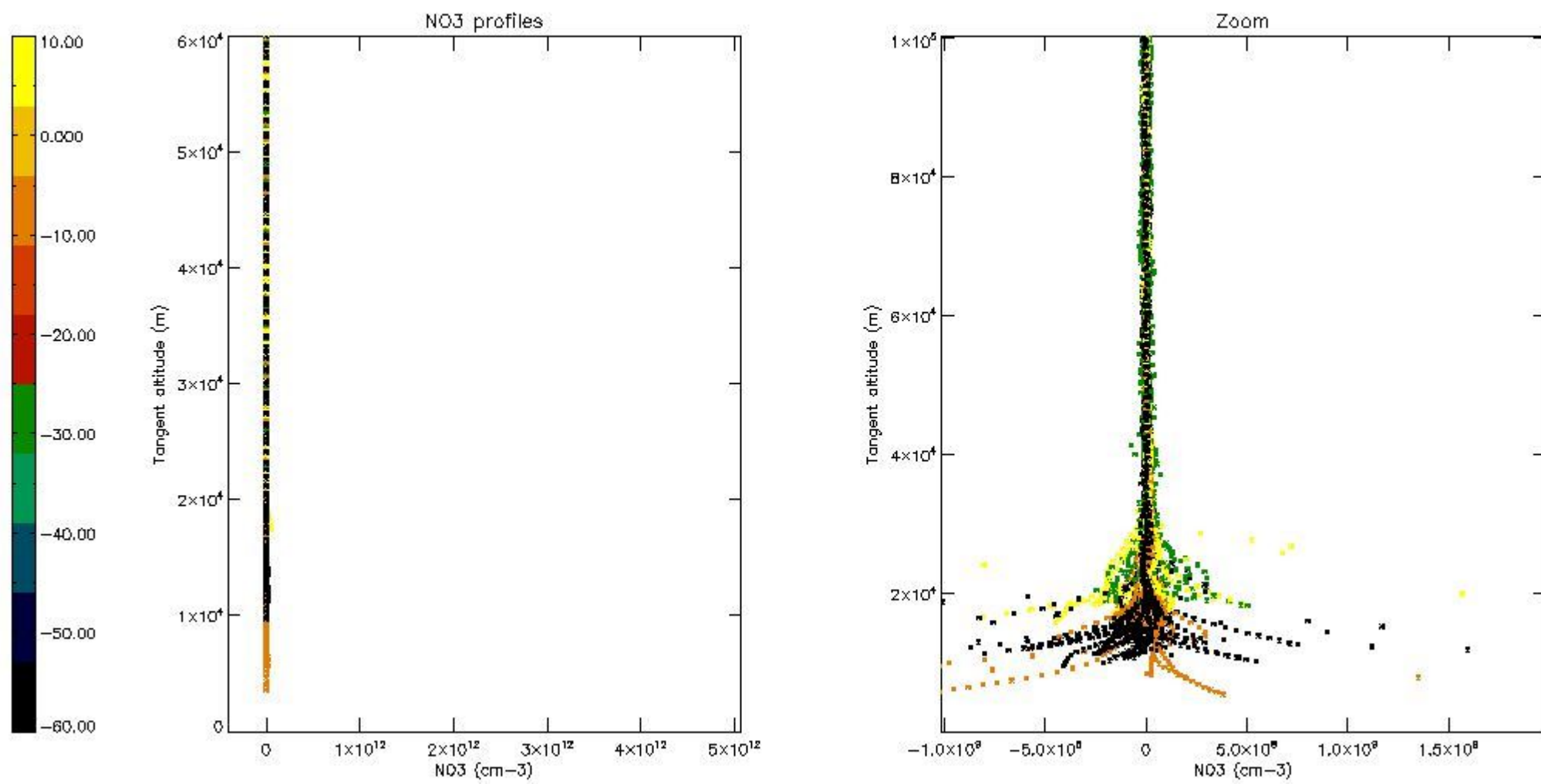
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



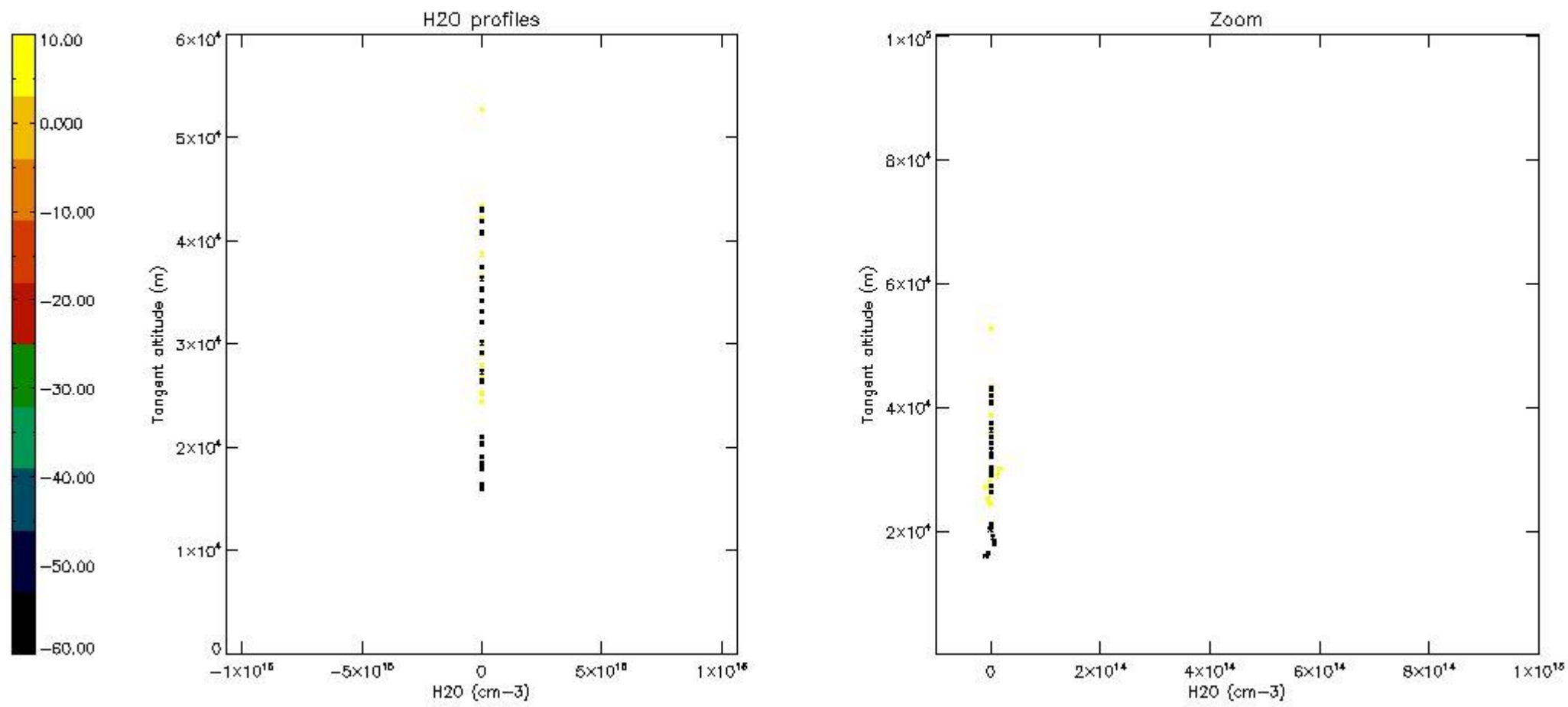
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

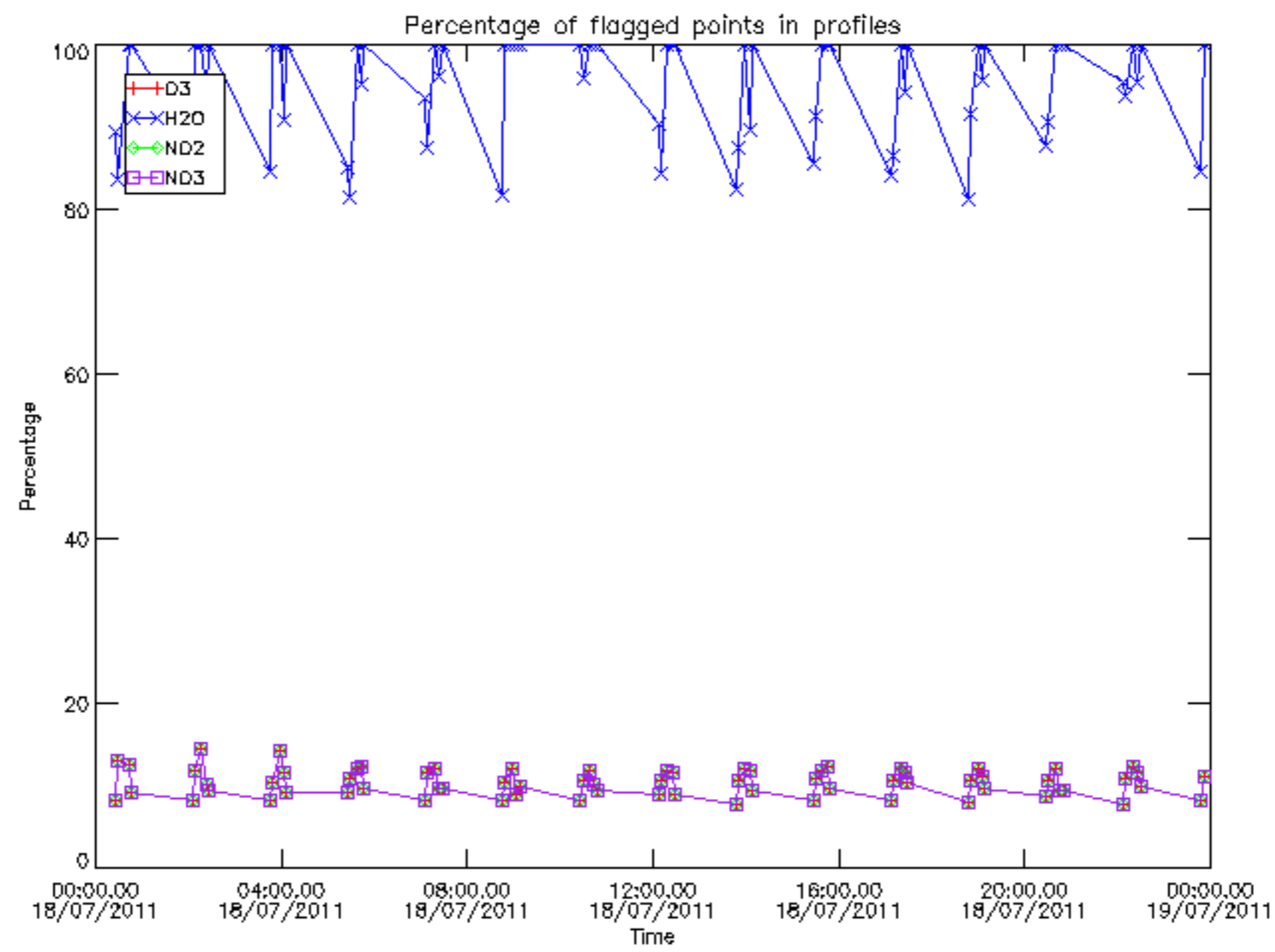
The colorbar represents the latitude.



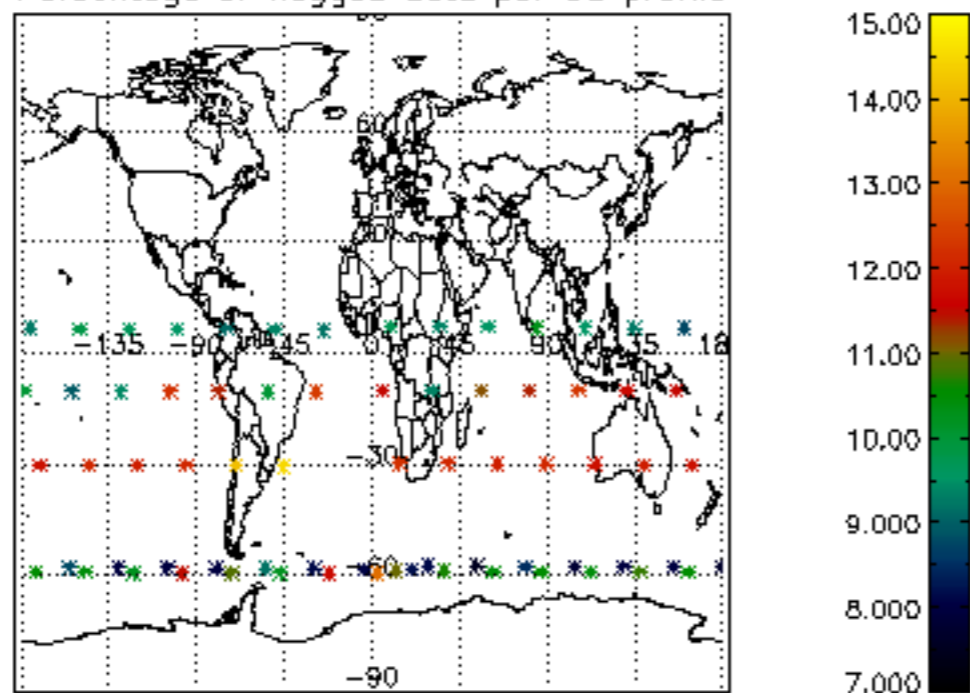
6. Auxiliary Data Files used for the production reported in section 2

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.

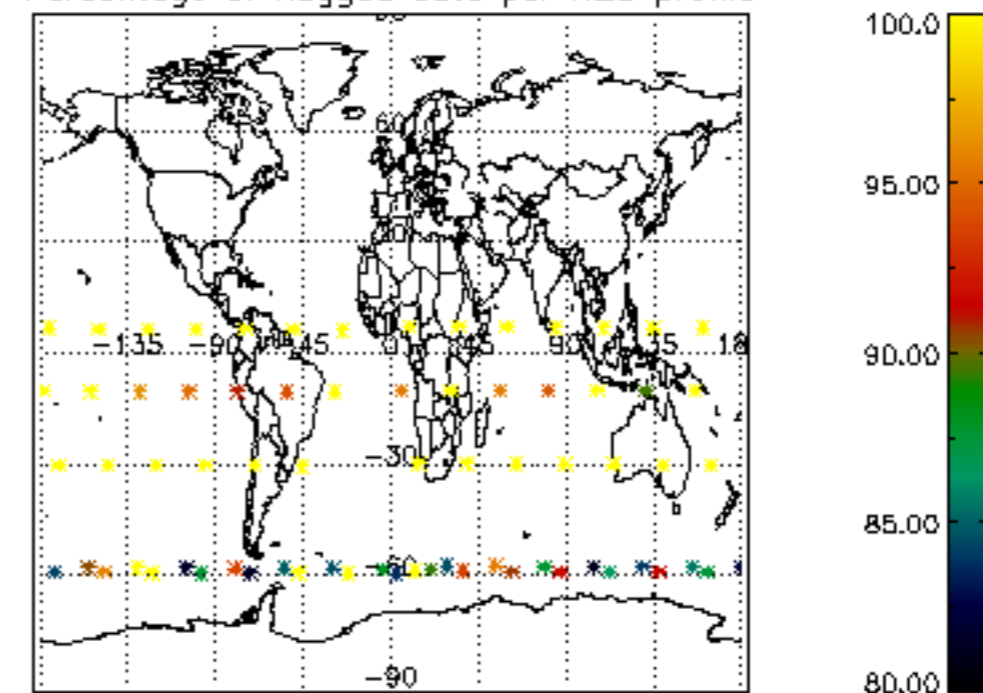
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	18-JUL-2011 00:01:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	18-JUL-2011 00:01:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	18-JUL-2011 00:01:18



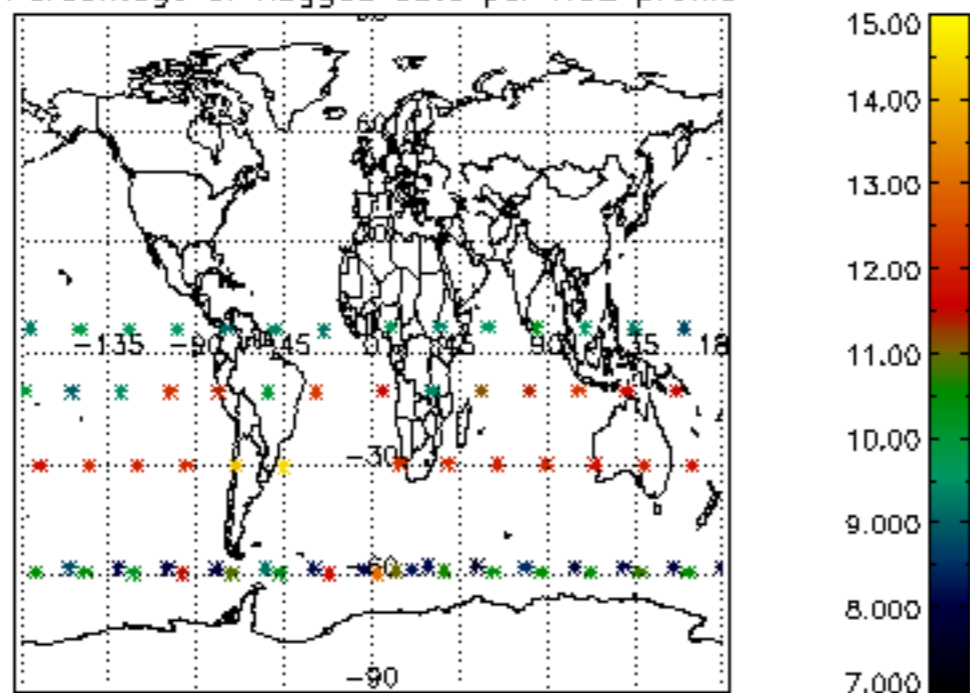
Percentage of flagged data per D3 profile



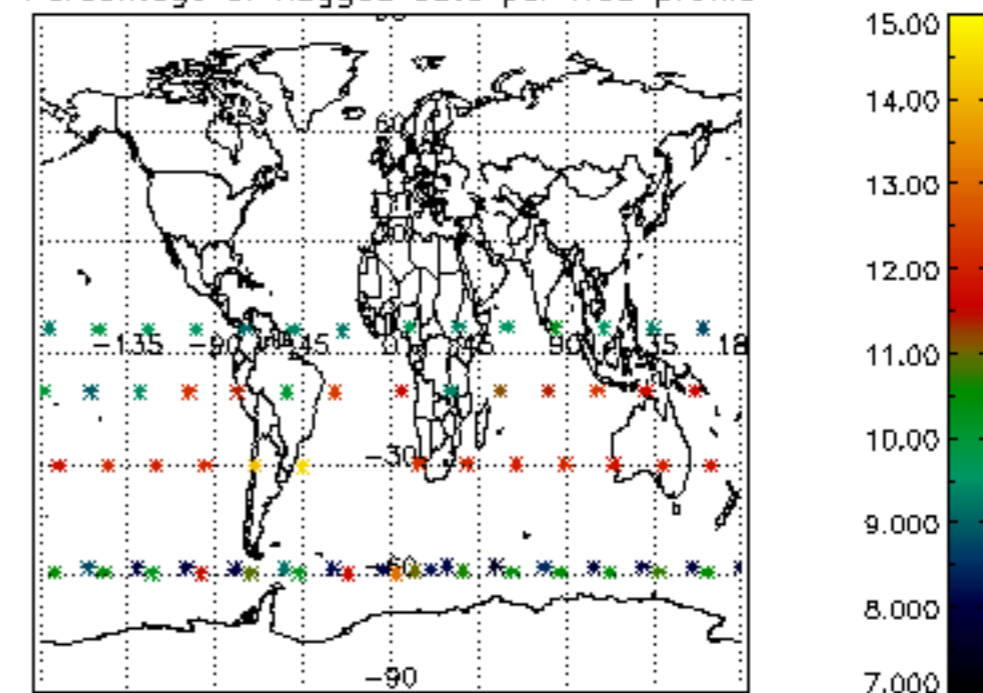
Percentage of flagged data per H2O profile

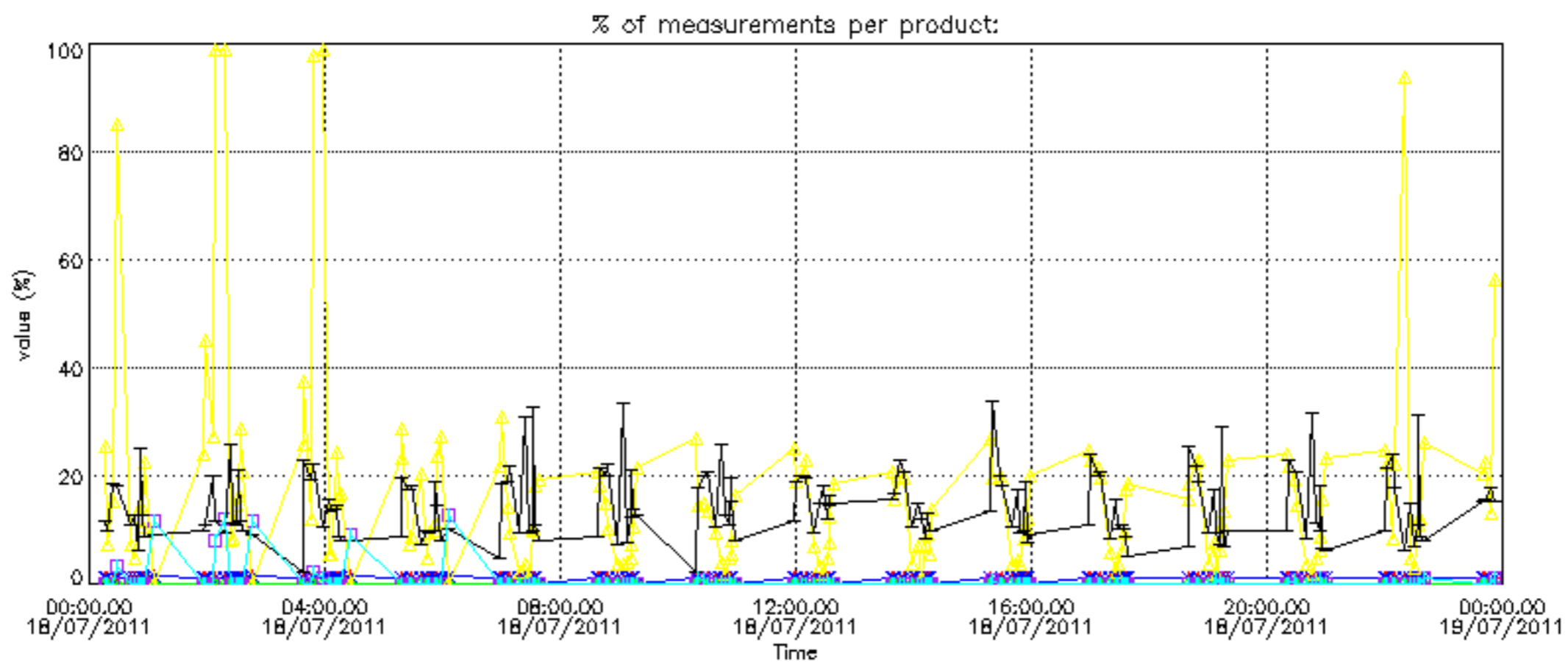


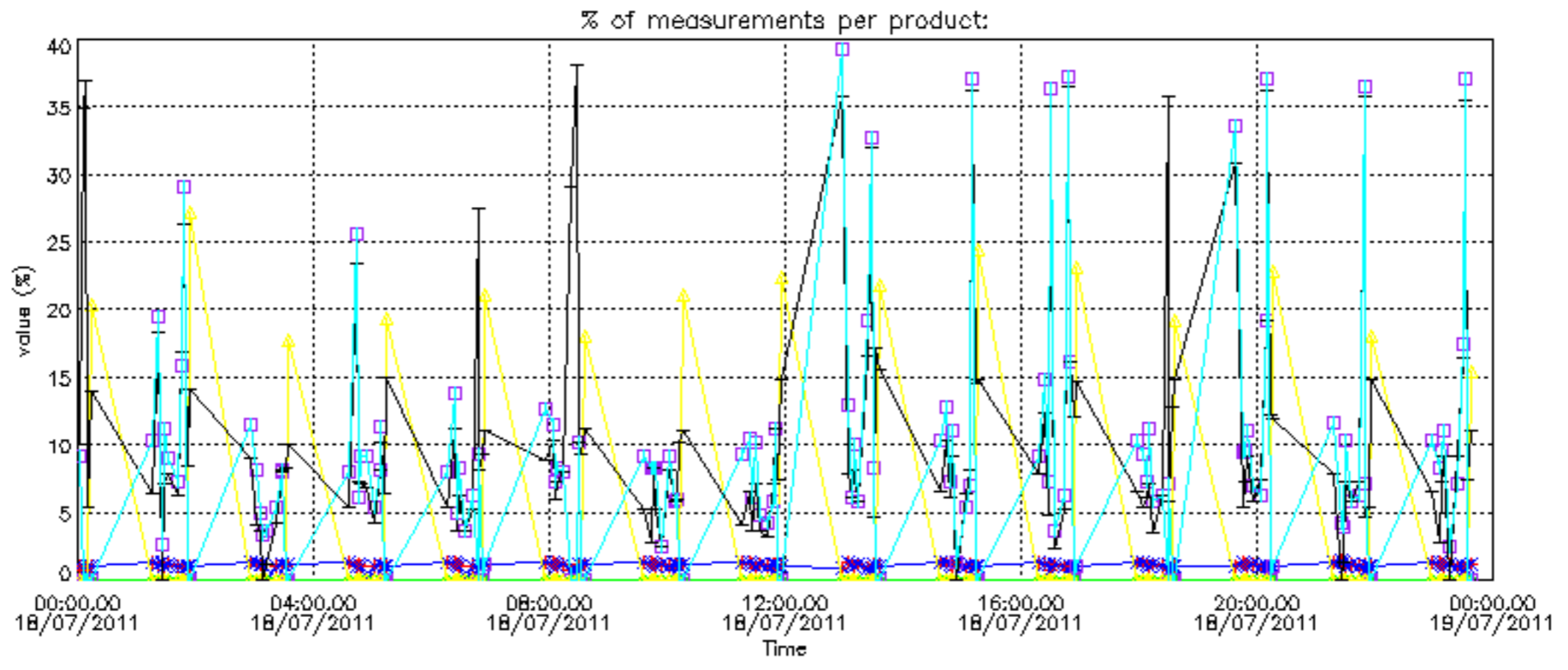
Percentage of flagged data per NO2 profile



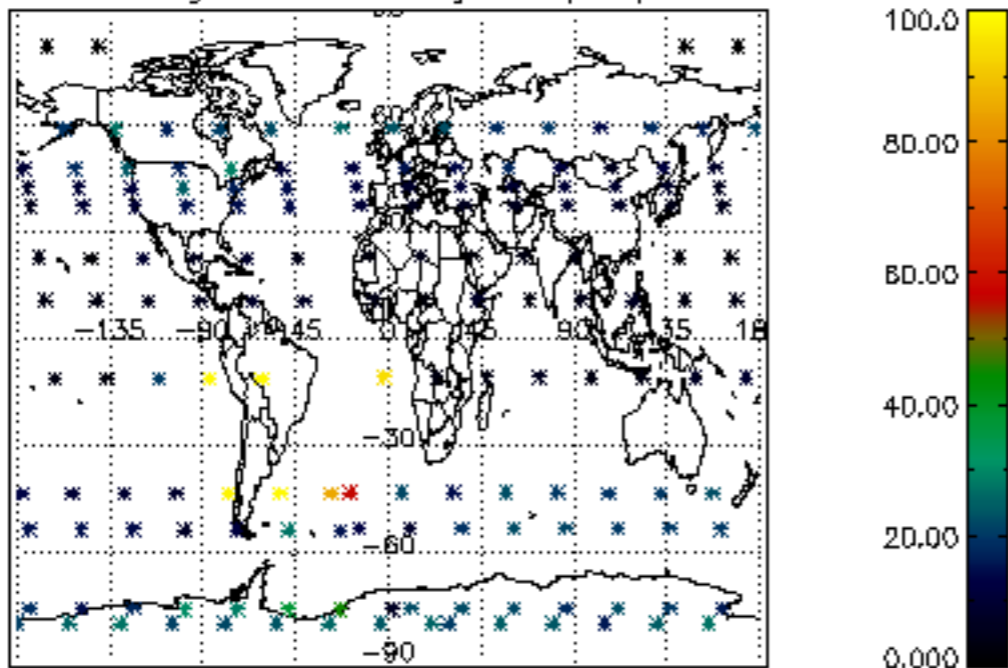
Percentage of flagged data per NO3 profile



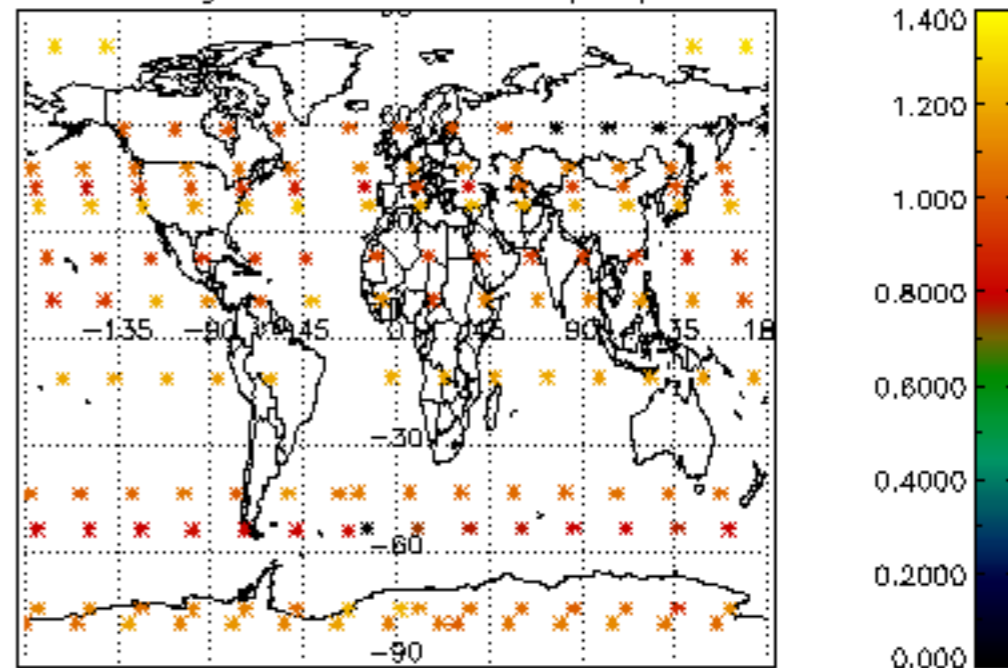




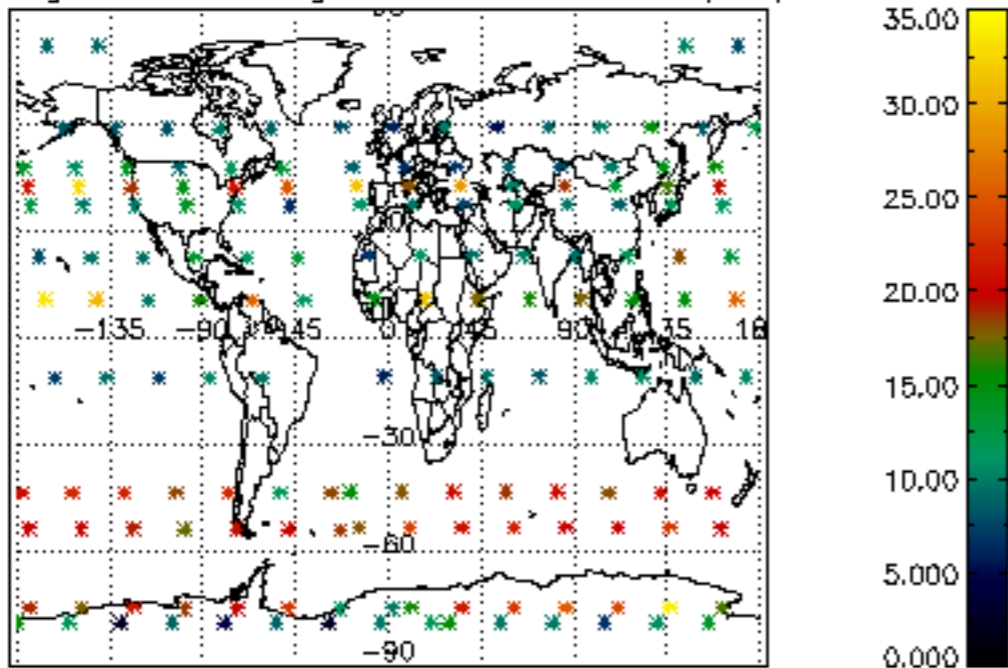
Percentage of cosmic ray hits per profile



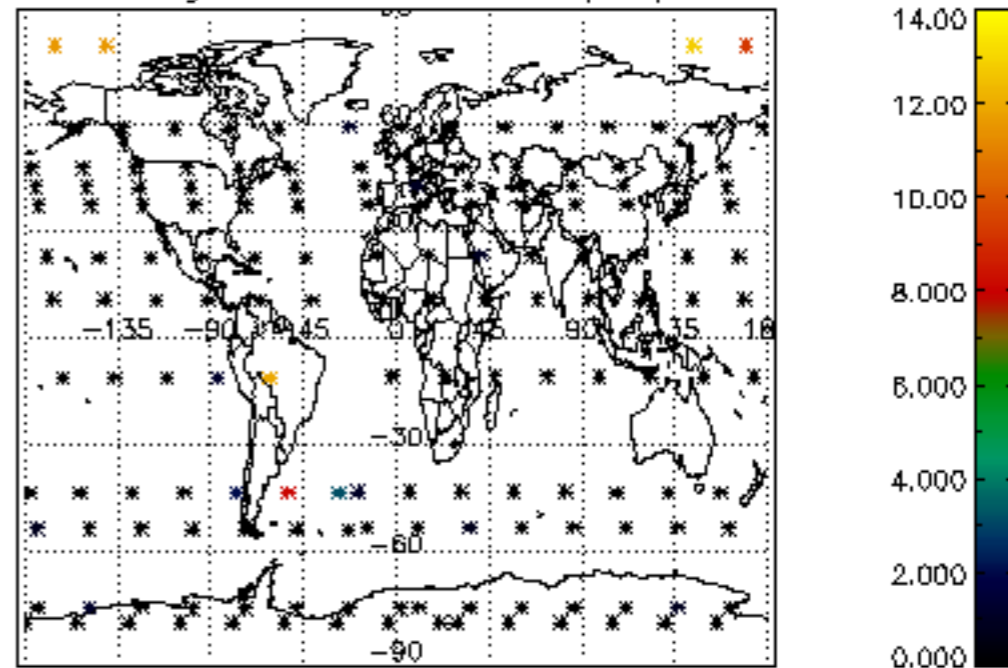
Percentage of datation errors per profile



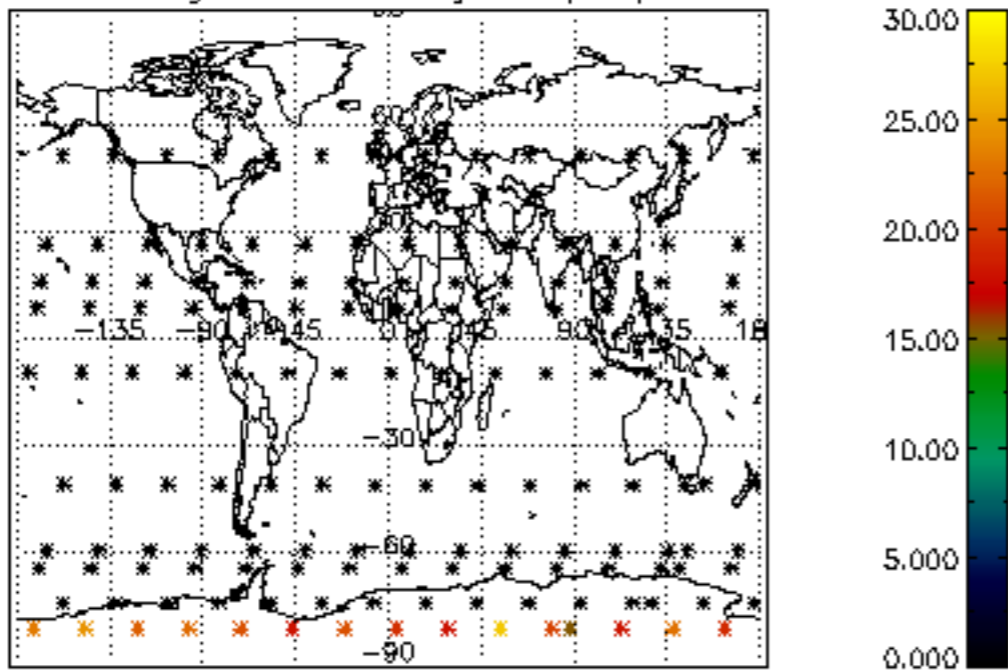
Percentage of star falling outside central band per profile



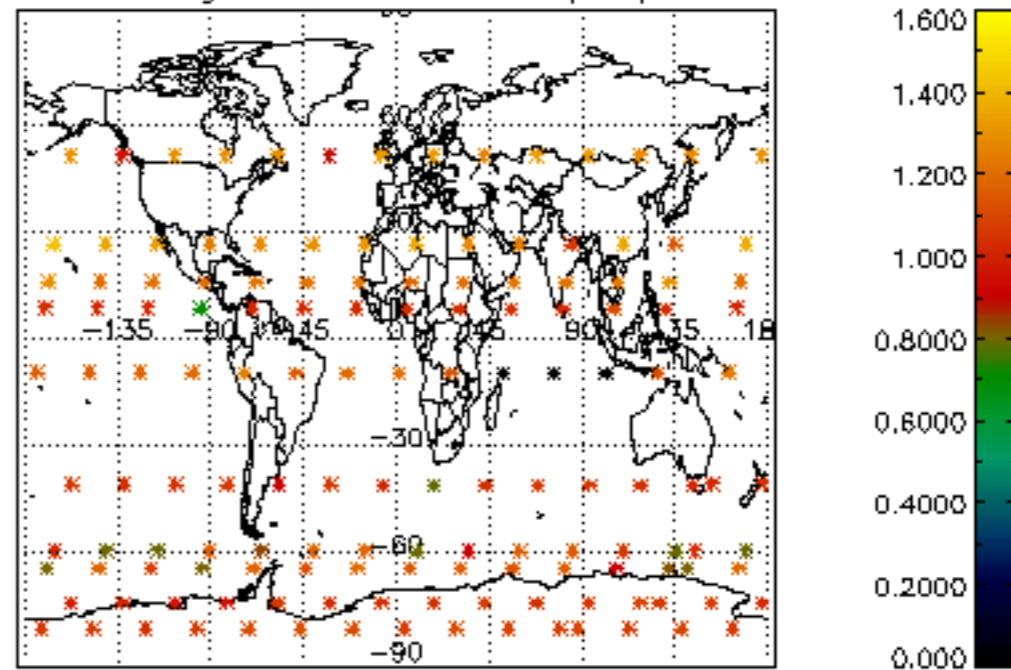
Percentage of saturation errors per profile



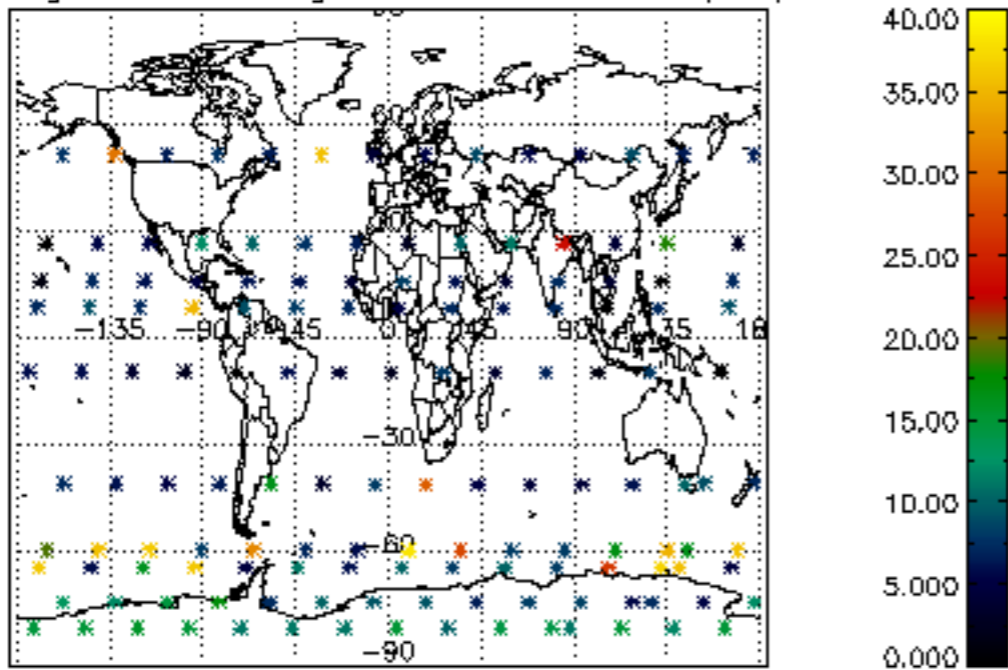
Percentage of cosmic ray hits per profile



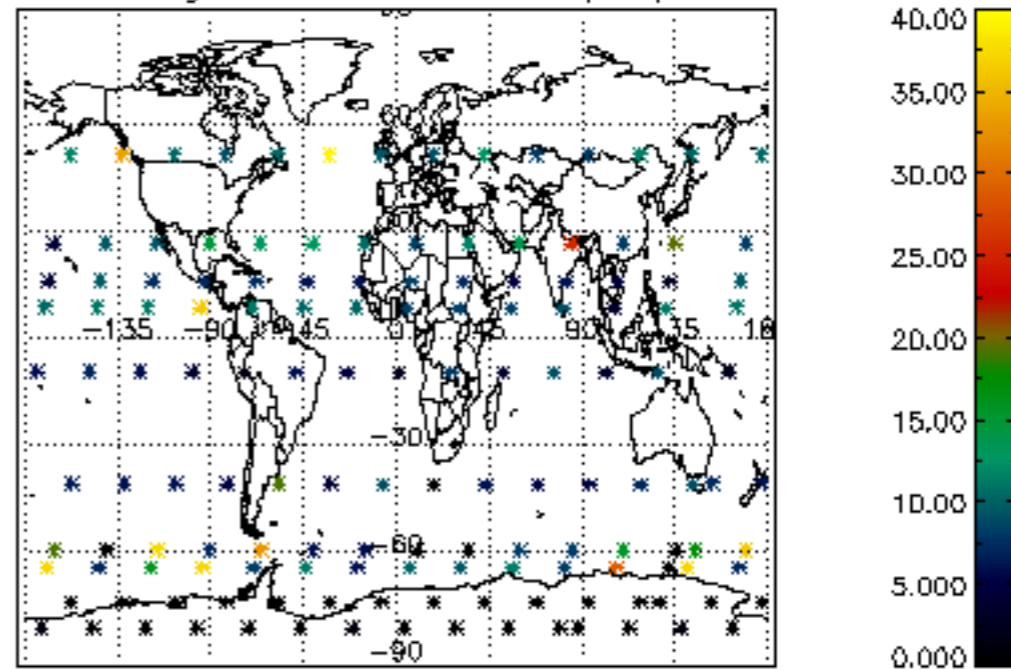
Percentage of datation errors per profile

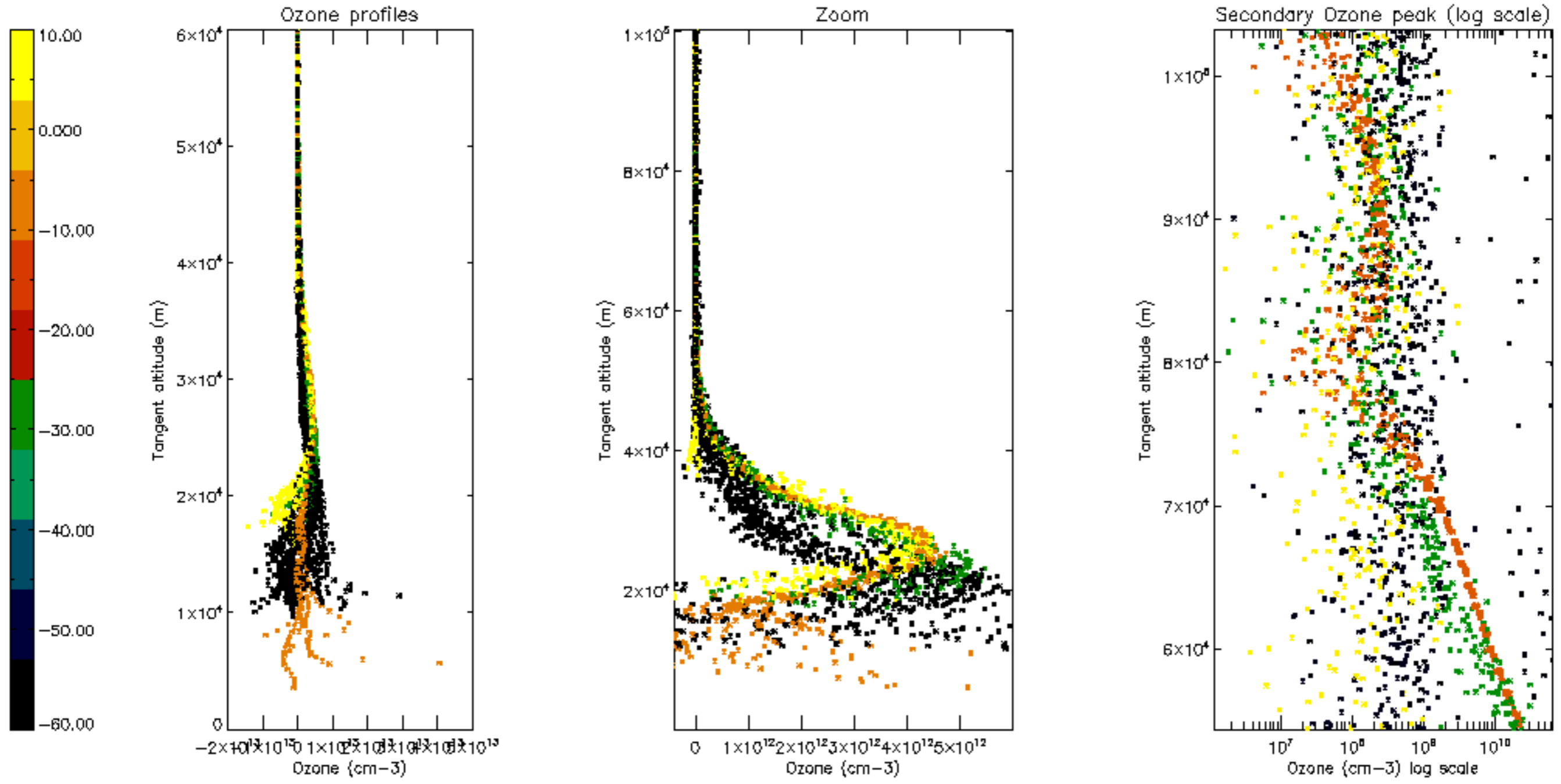


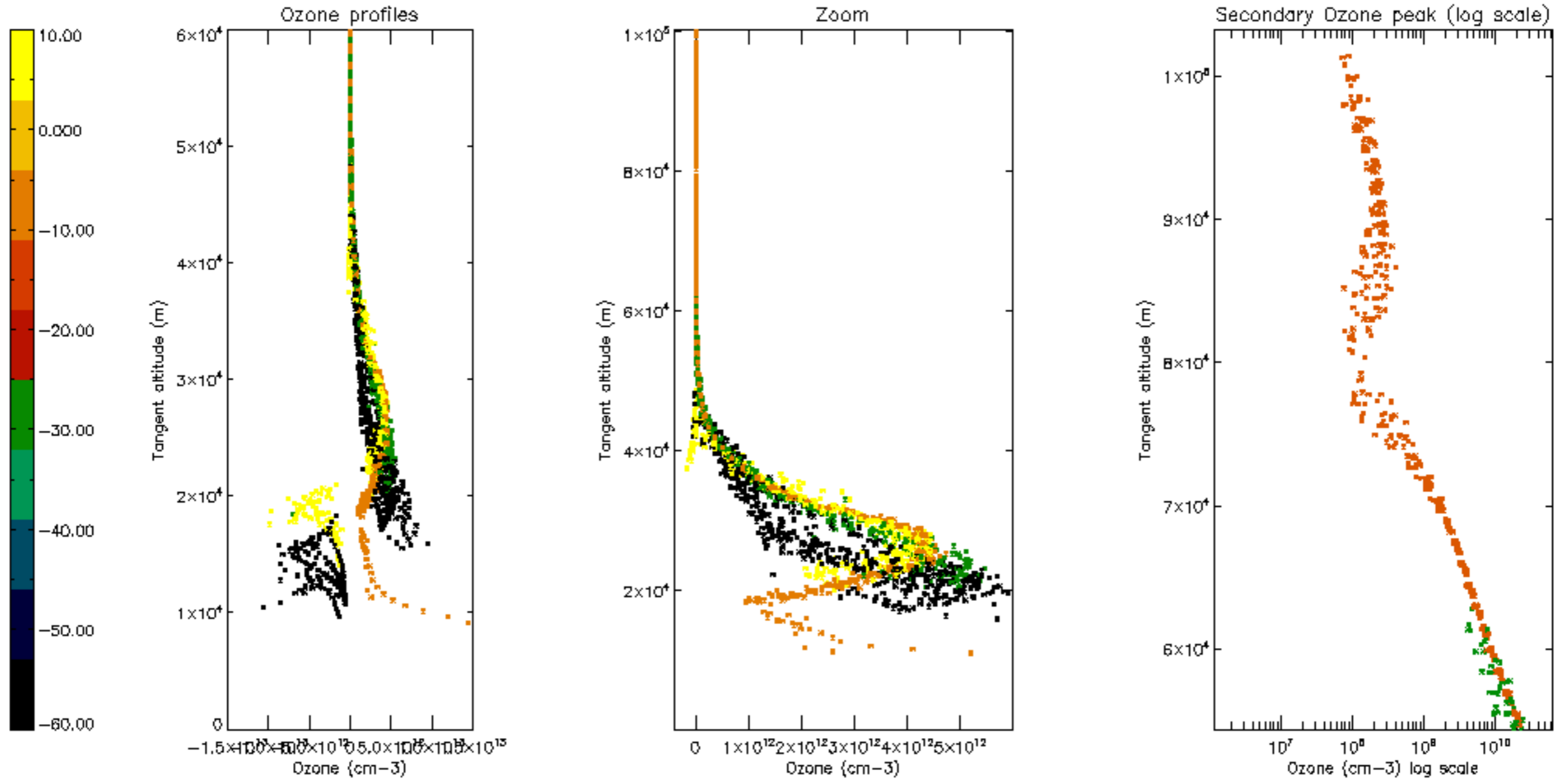
Percentage of star falling outside central band per profile

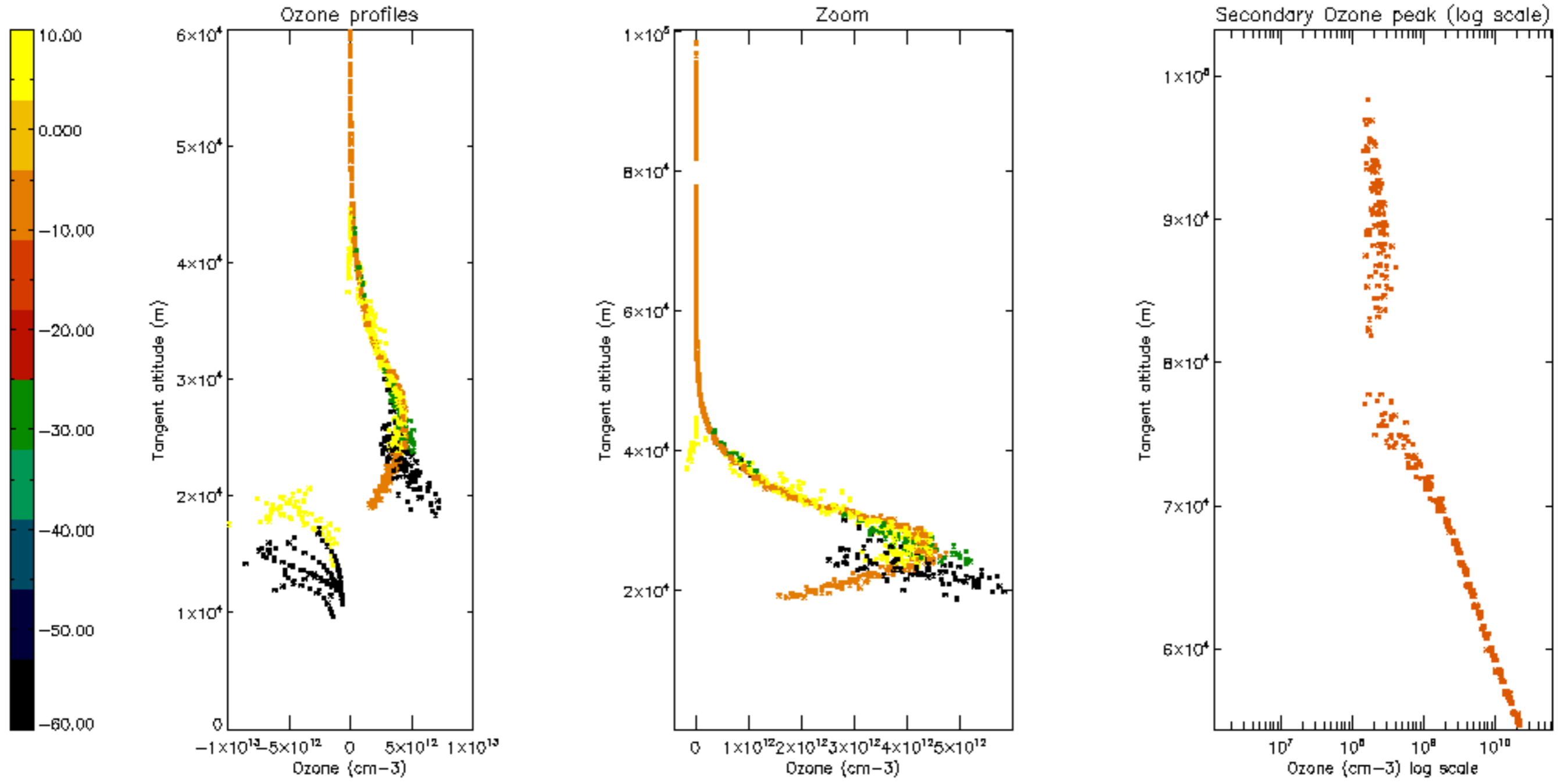


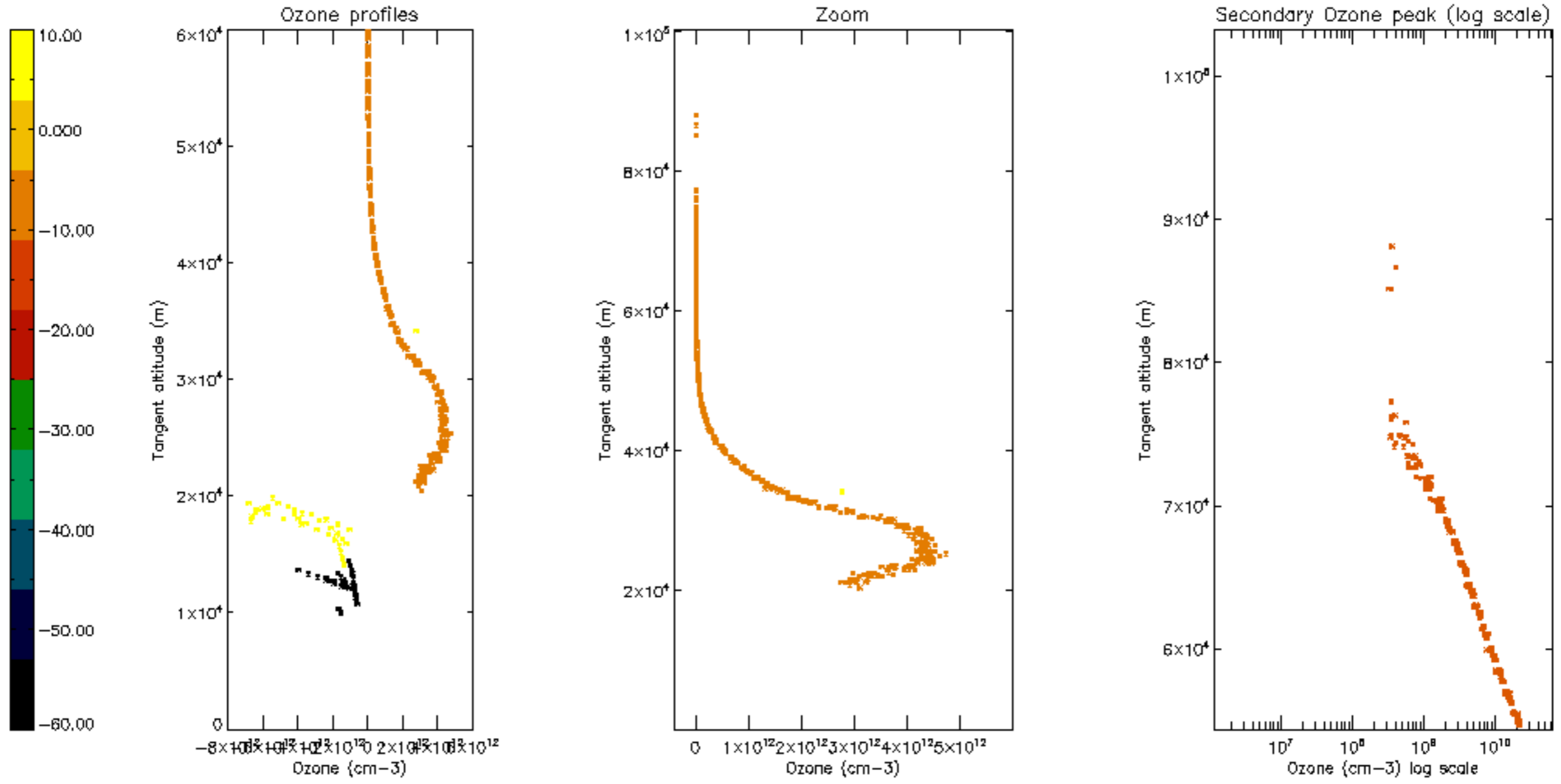
Percentage of saturation errors per profile

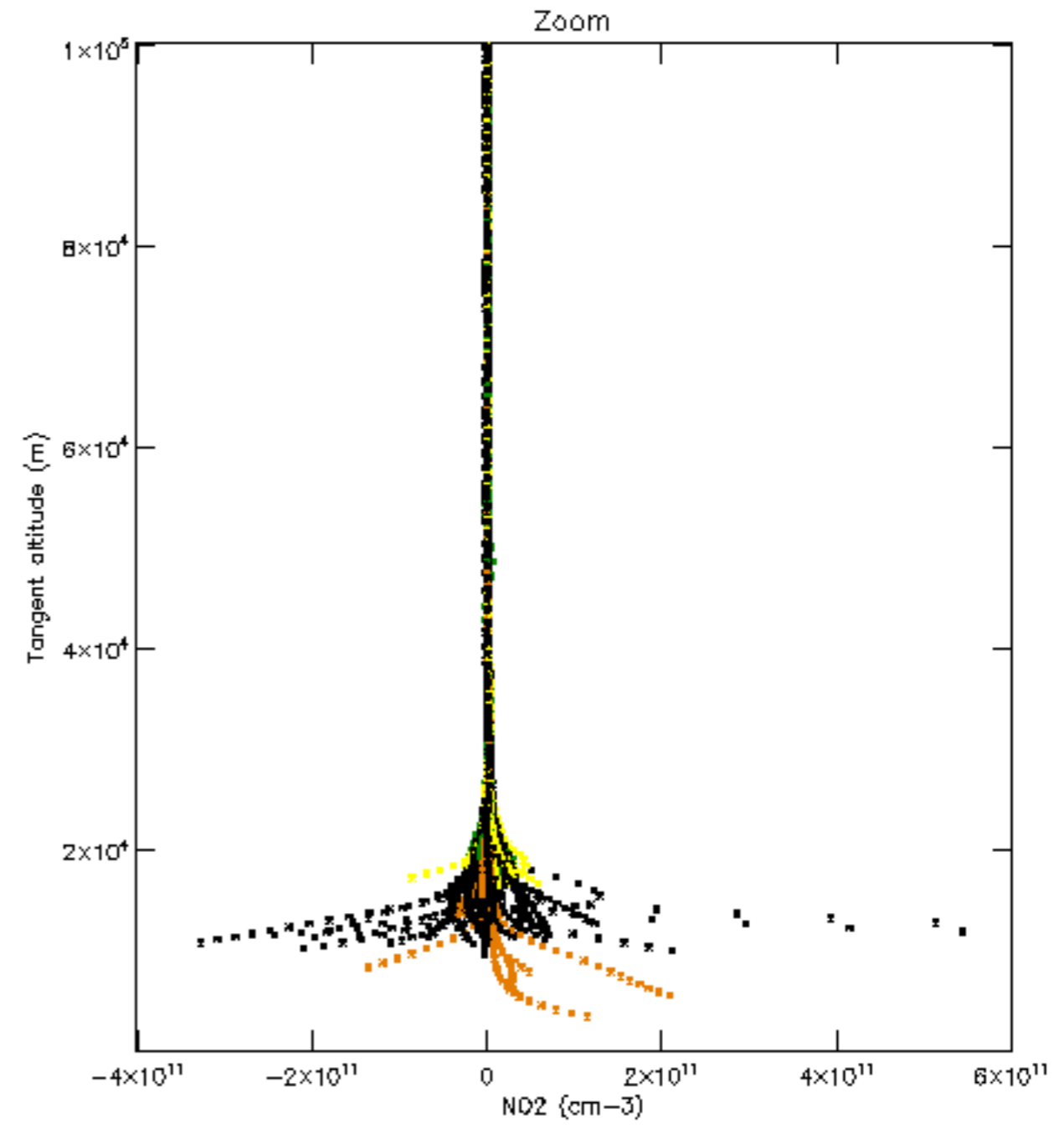
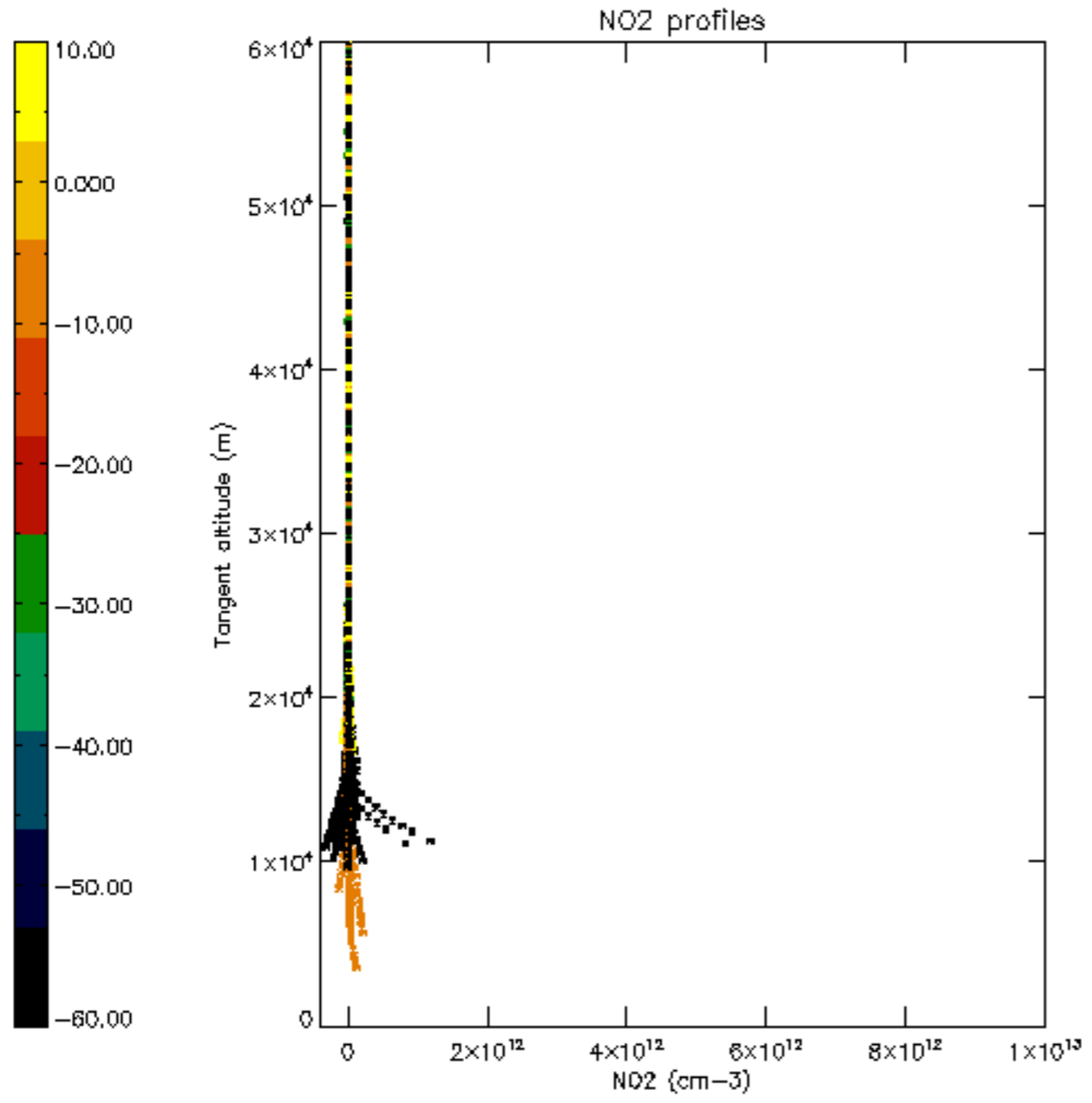


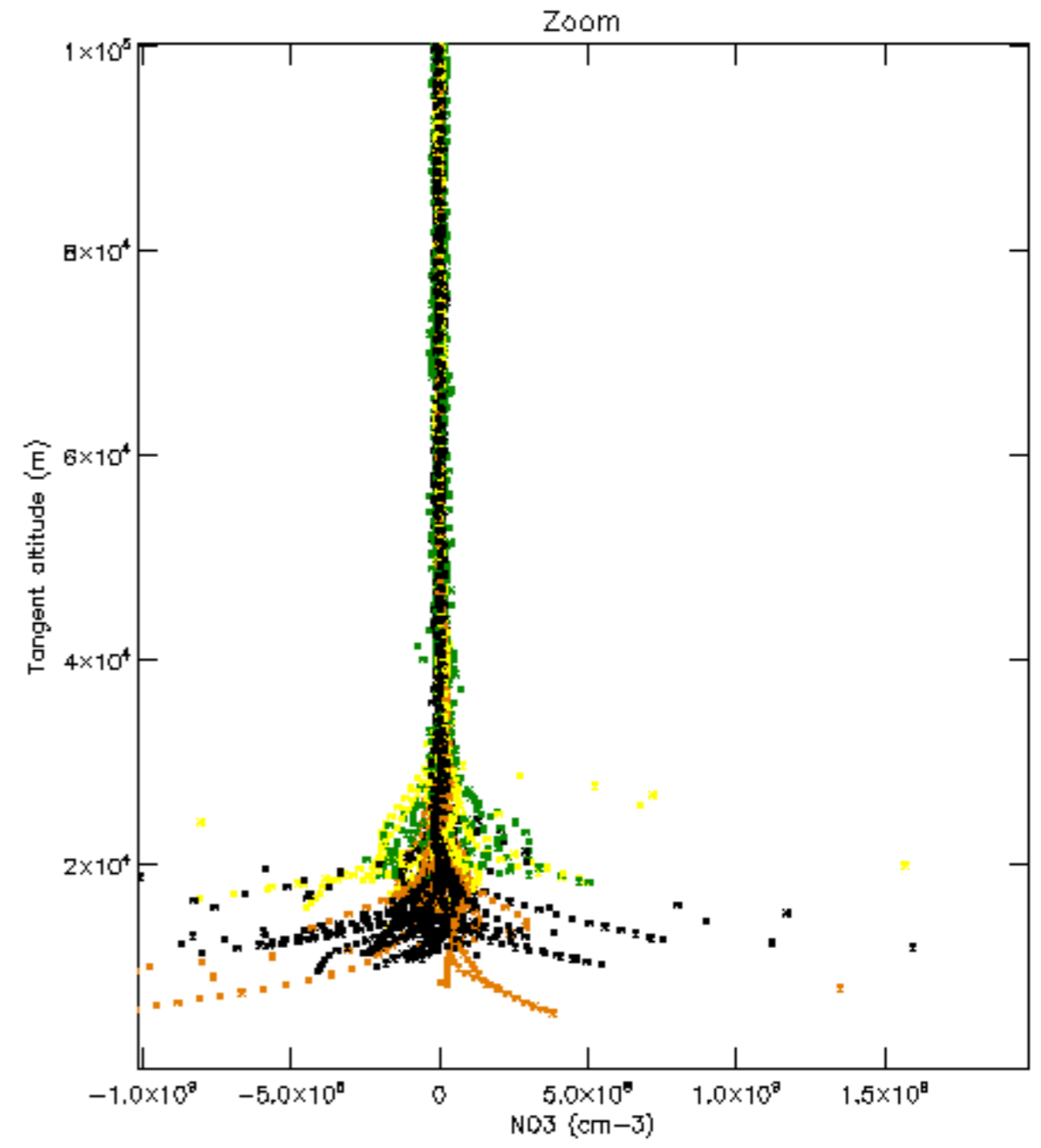
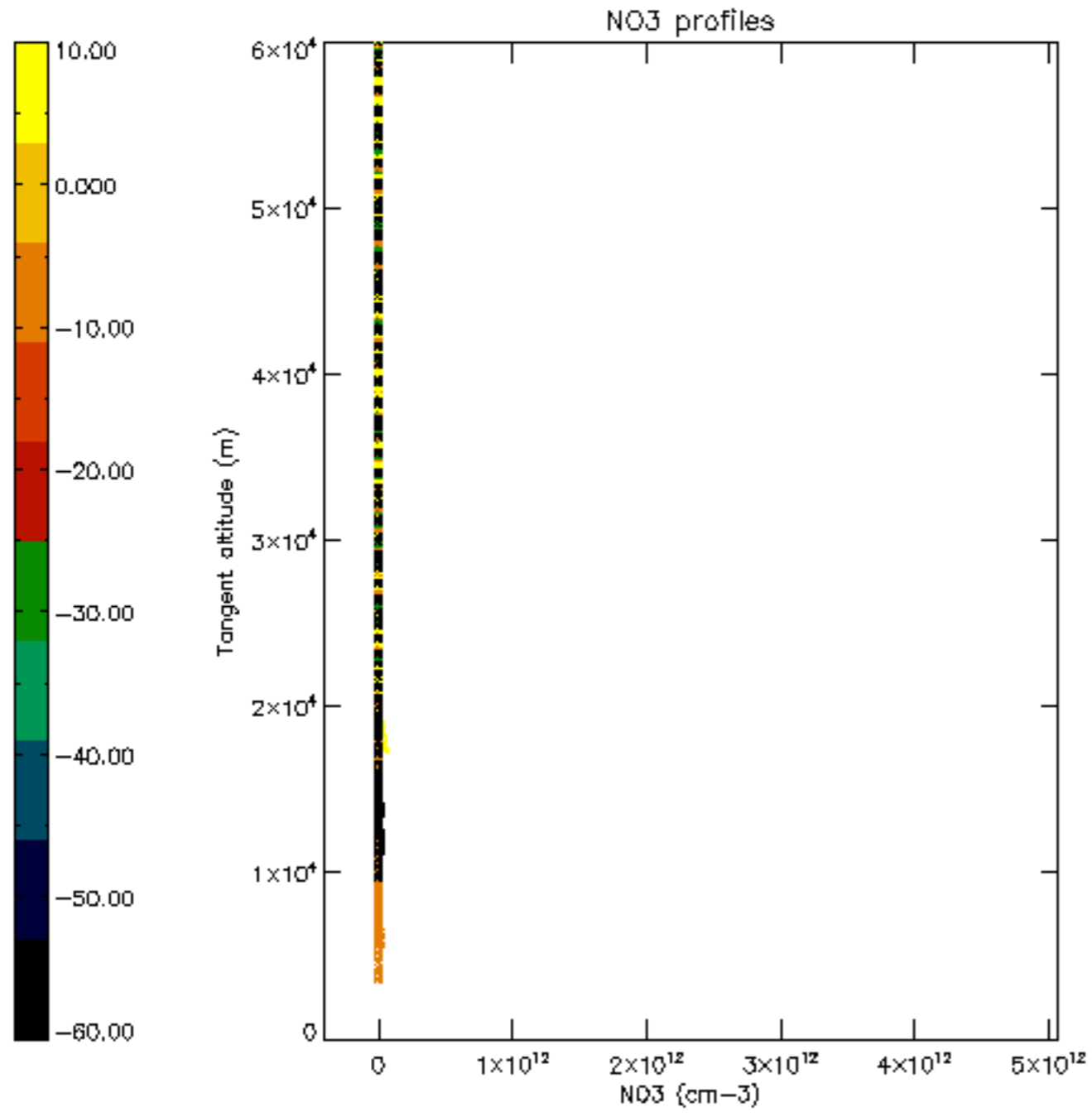


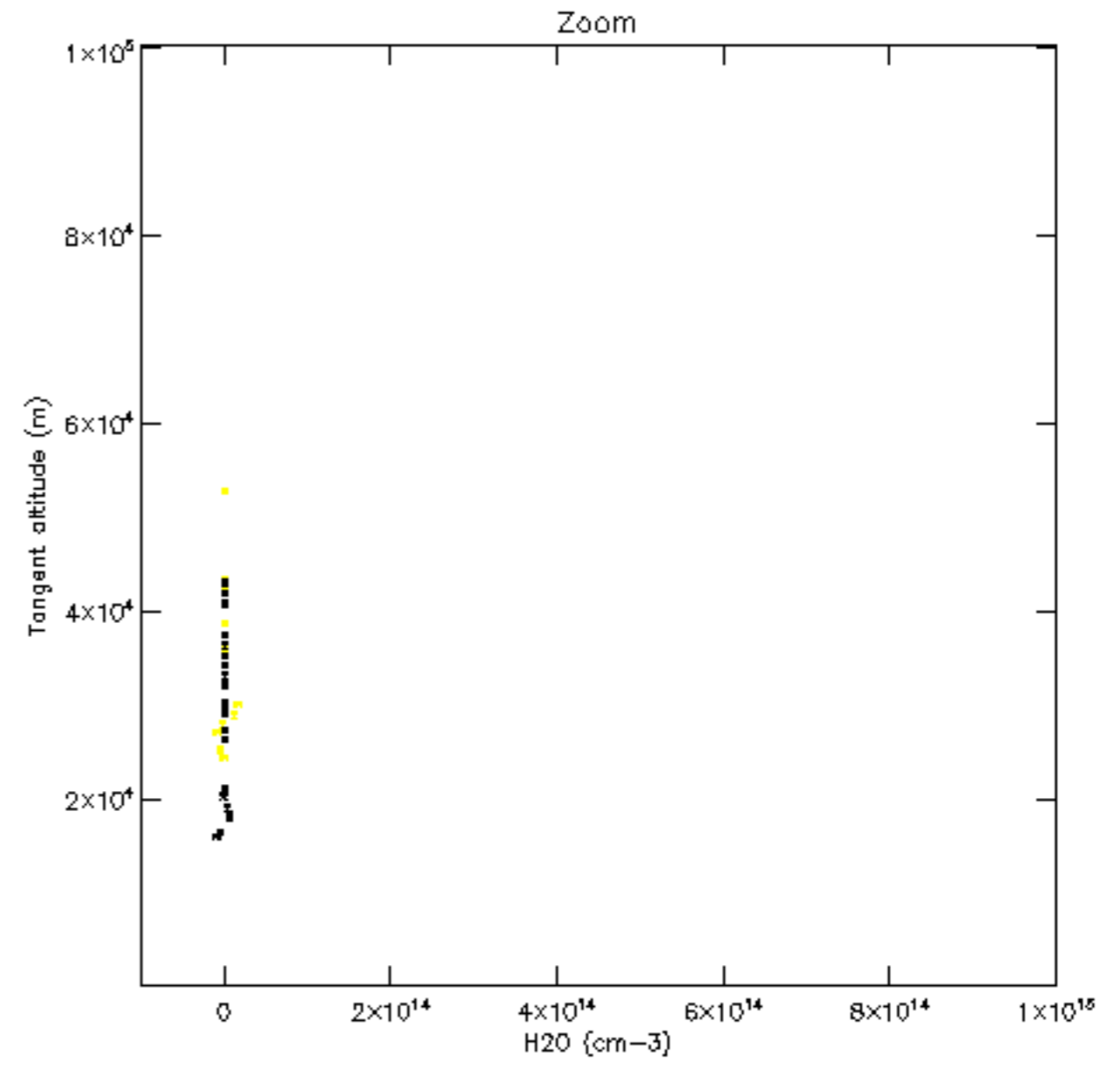
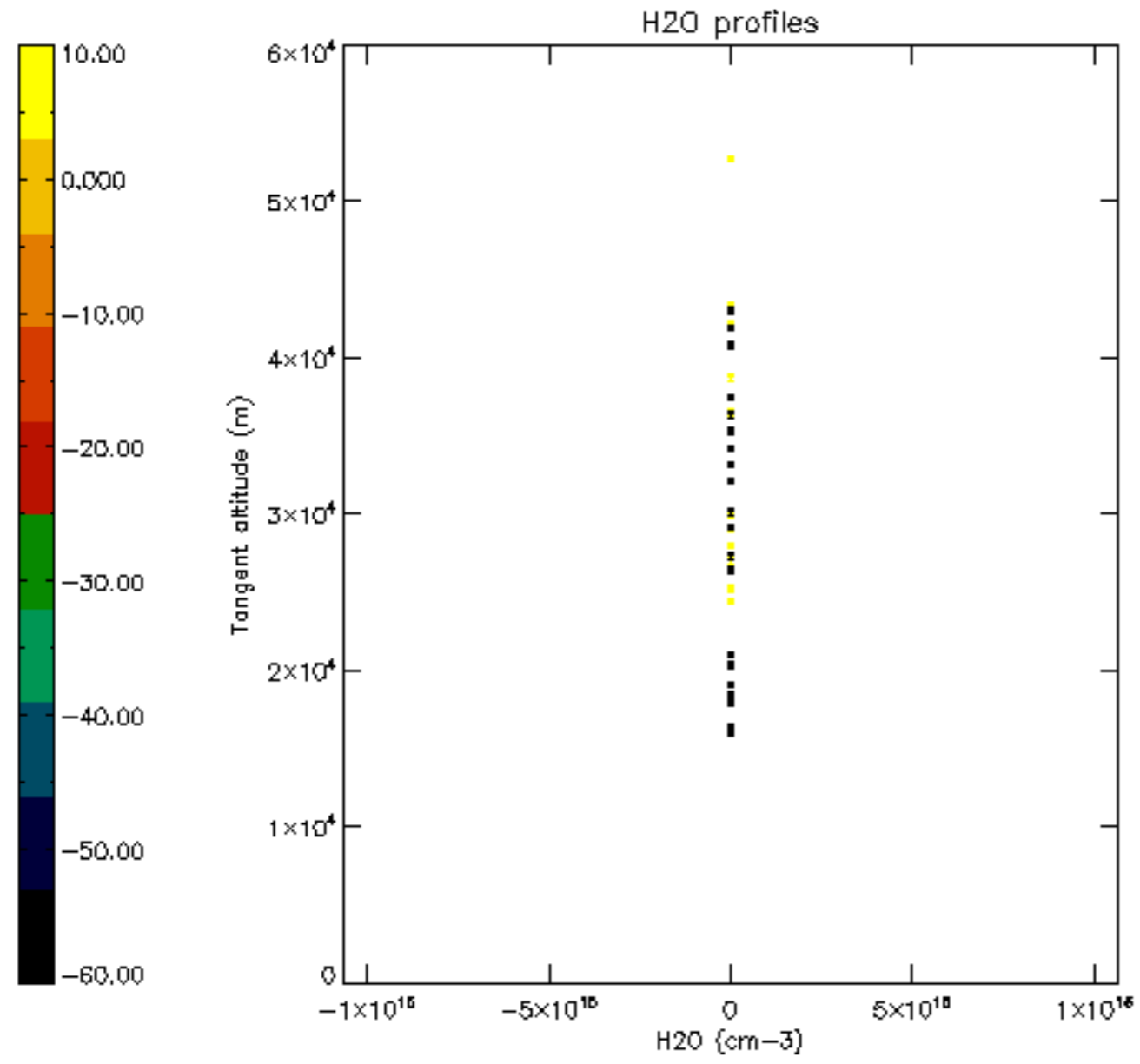


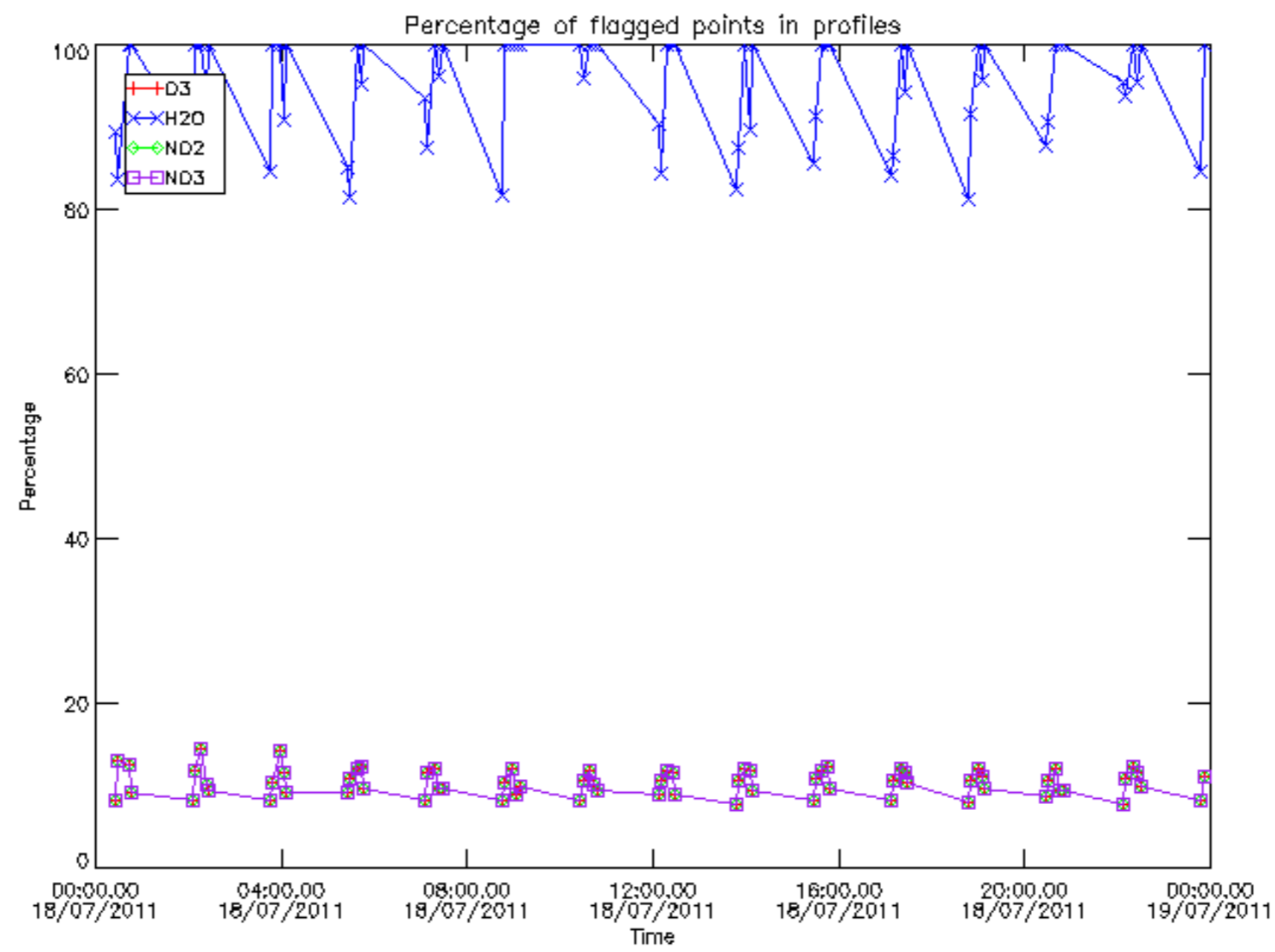




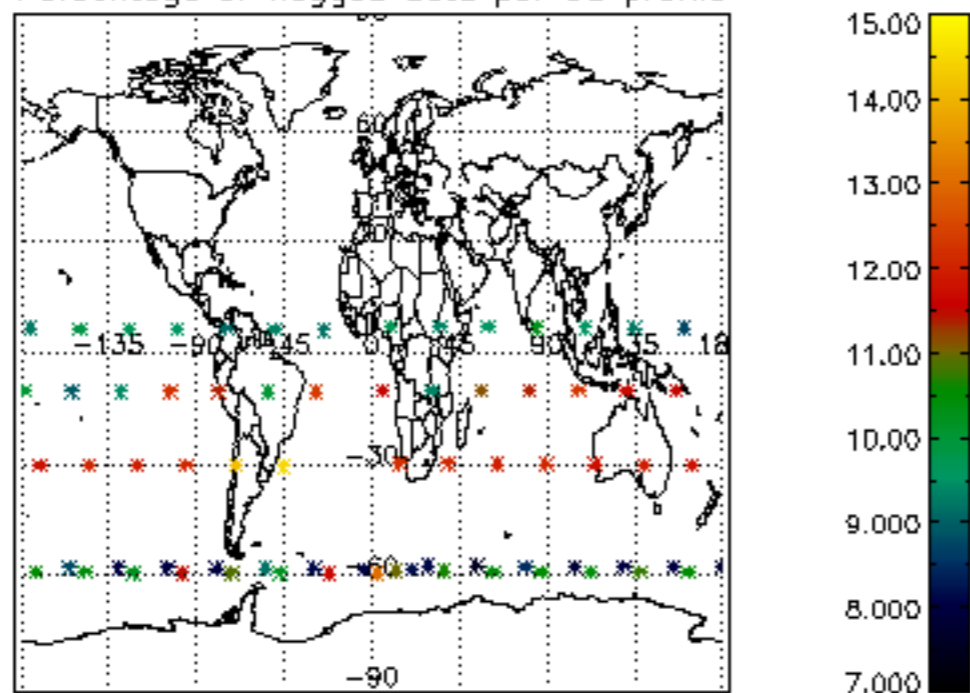




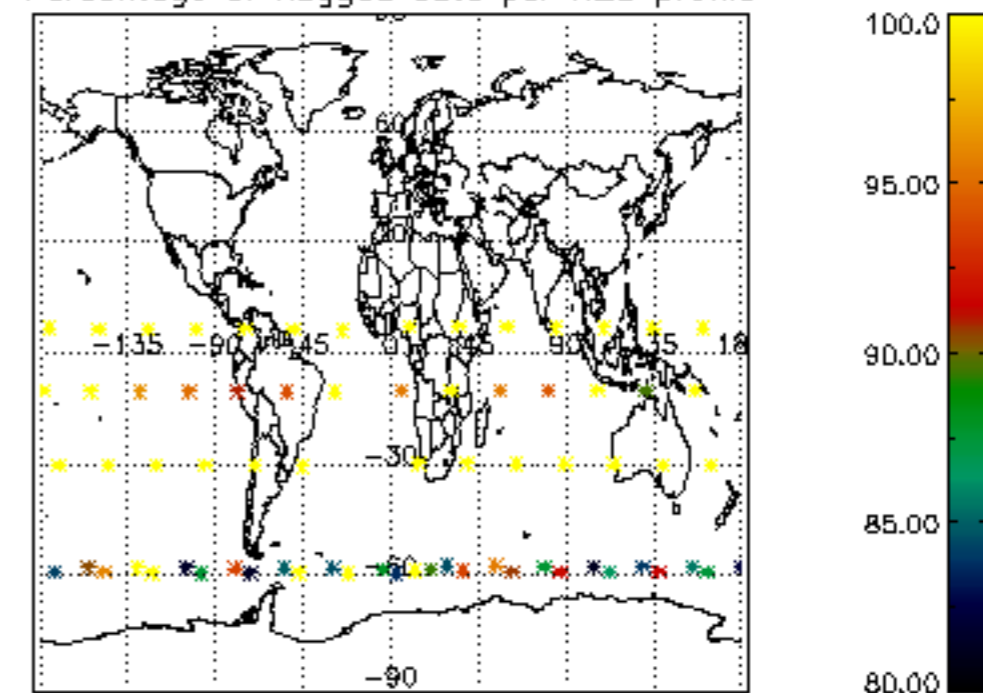




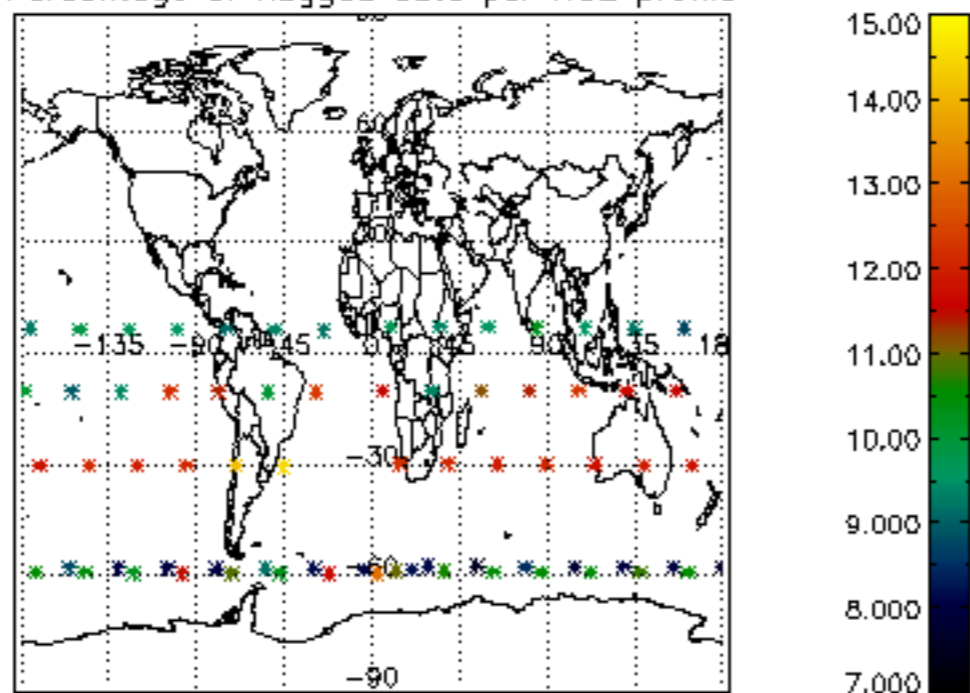
Percentage of flagged data per D3 profile



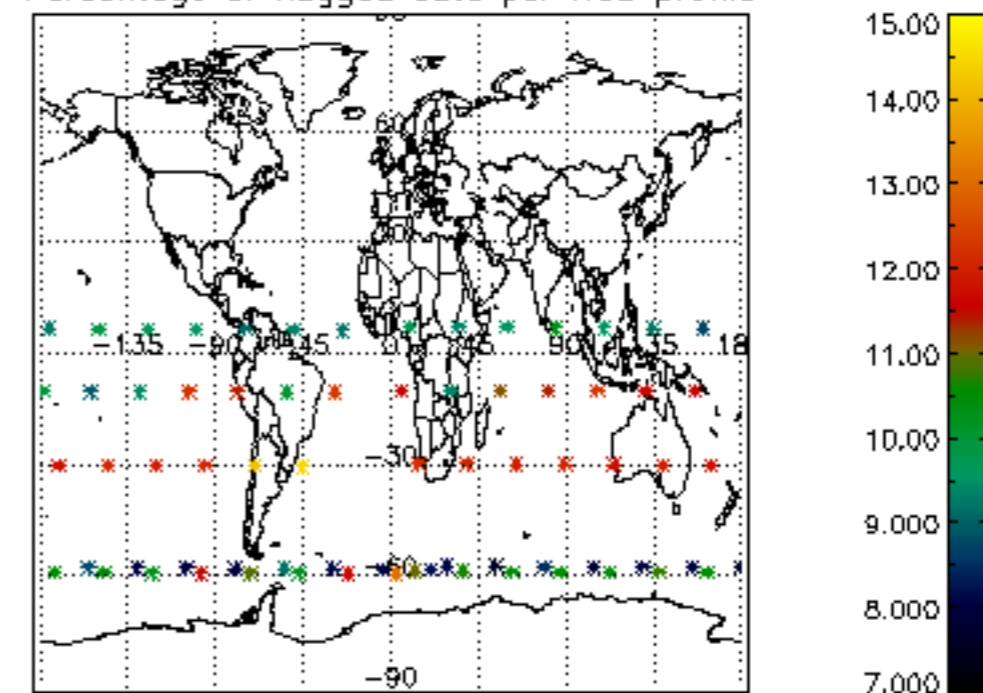
Percentage of flagged data per H2O profile

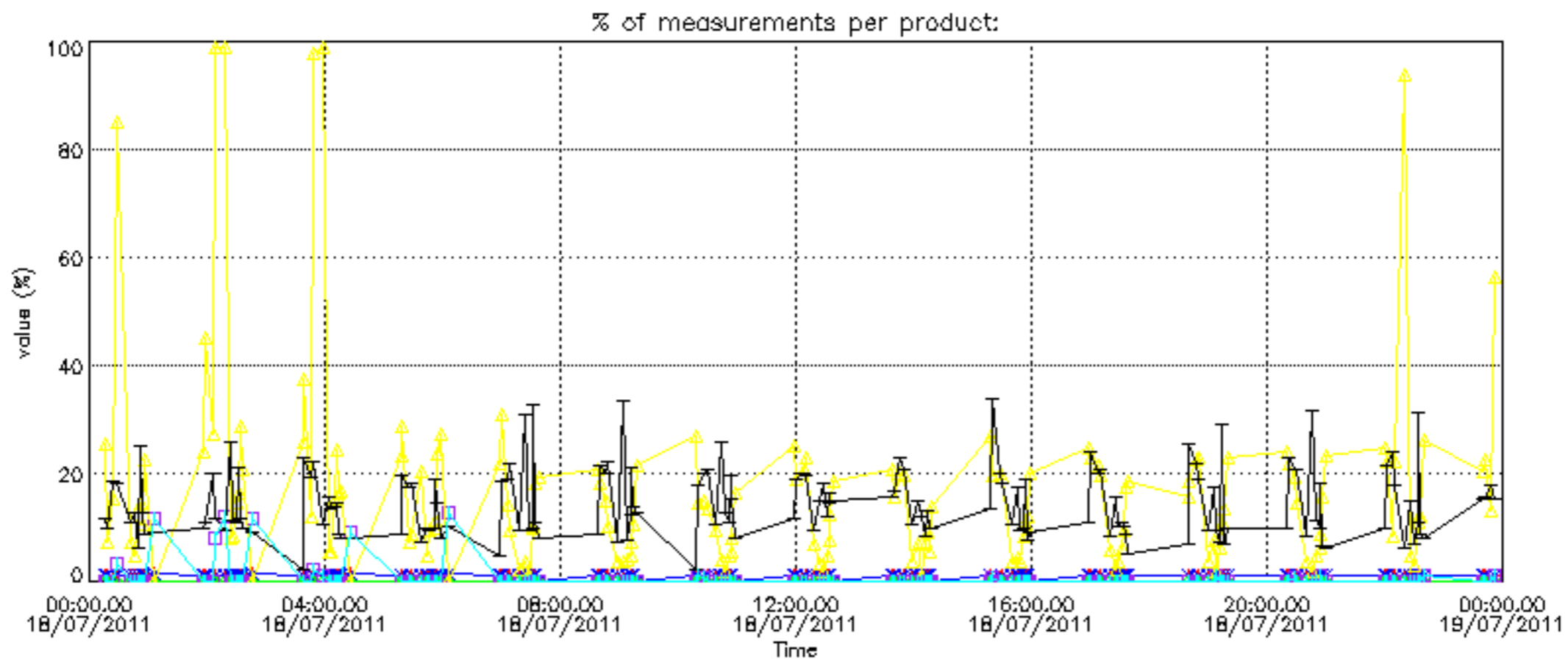


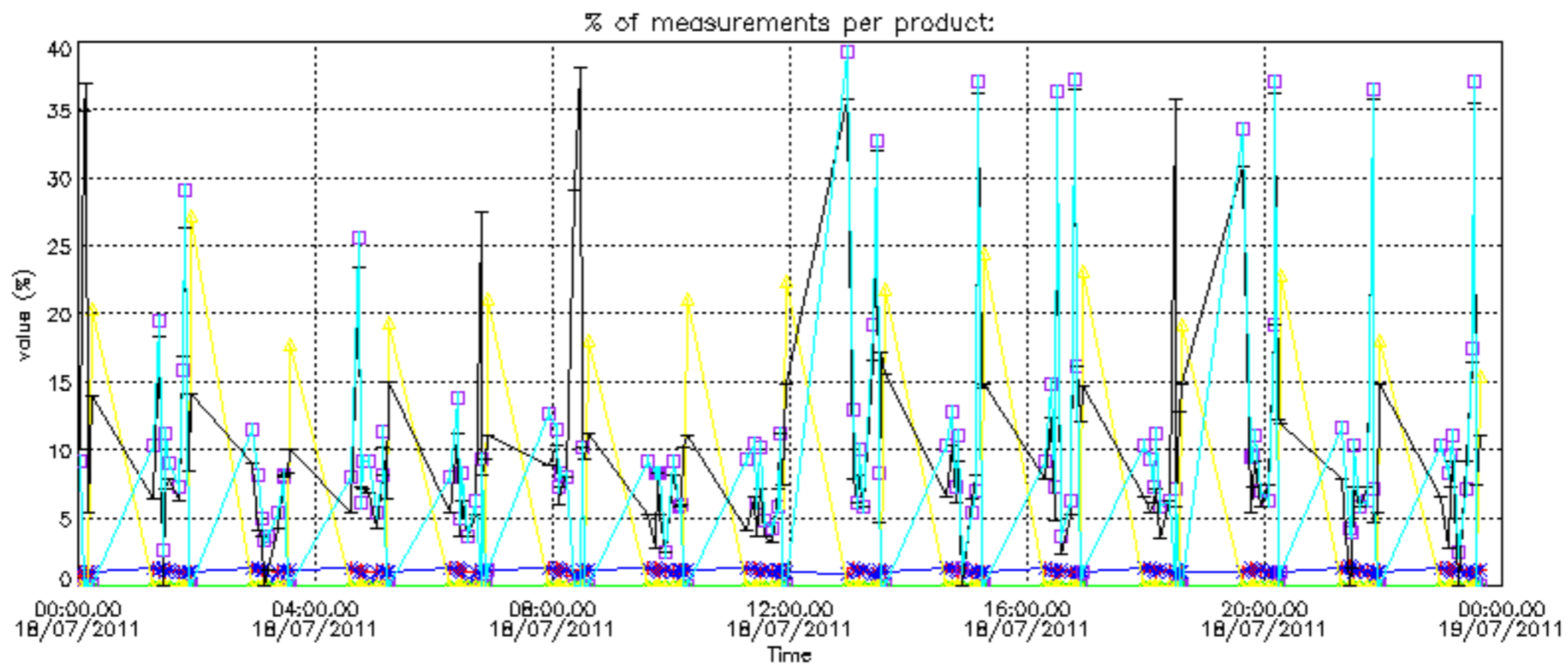
Percentage of flagged data per NO2 profile



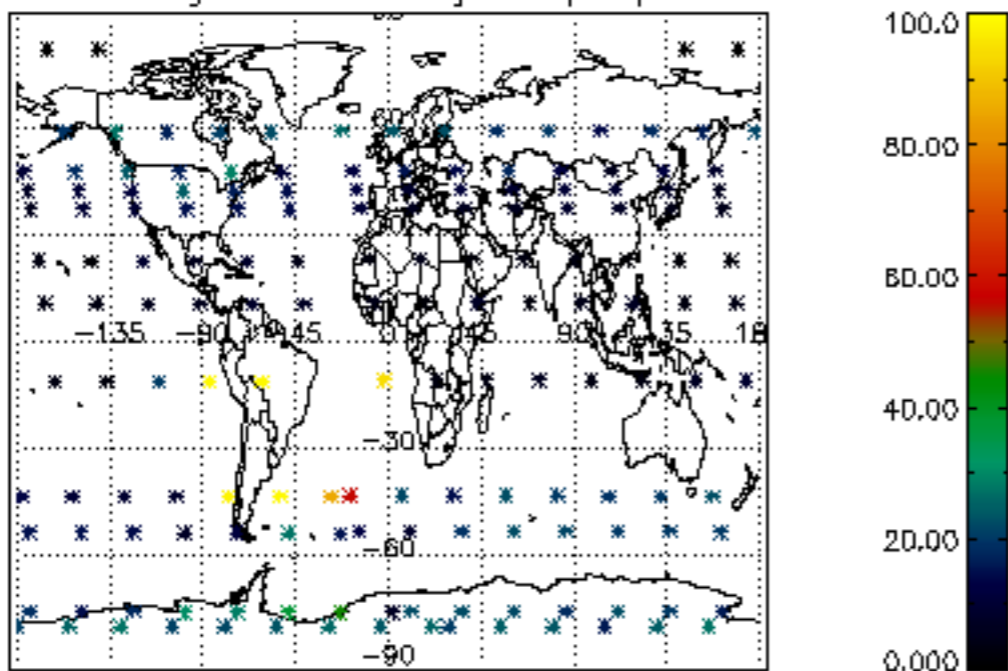
Percentage of flagged data per NO3 profile



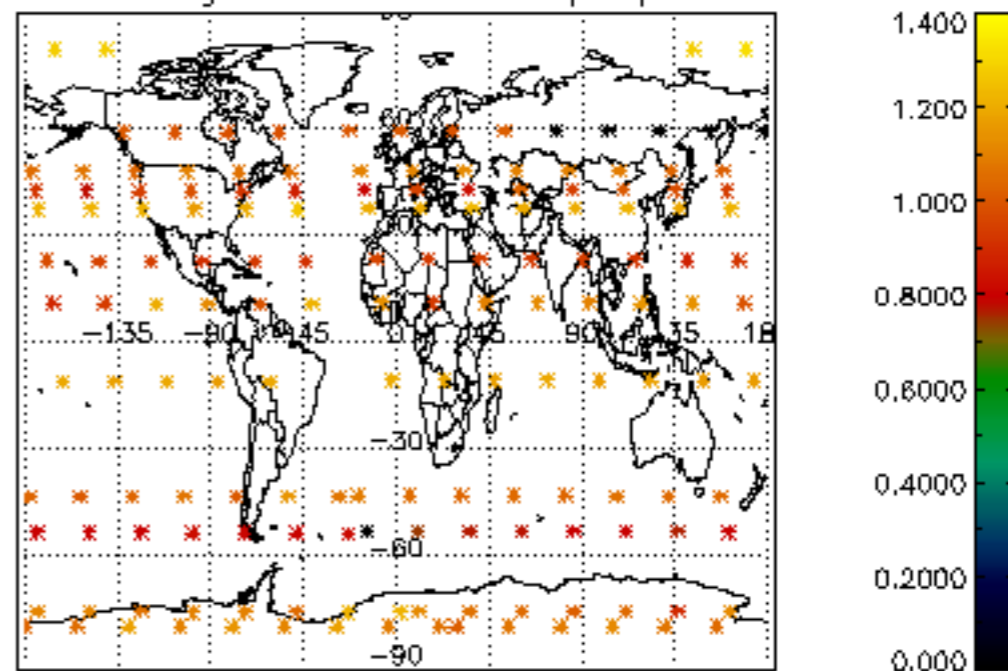




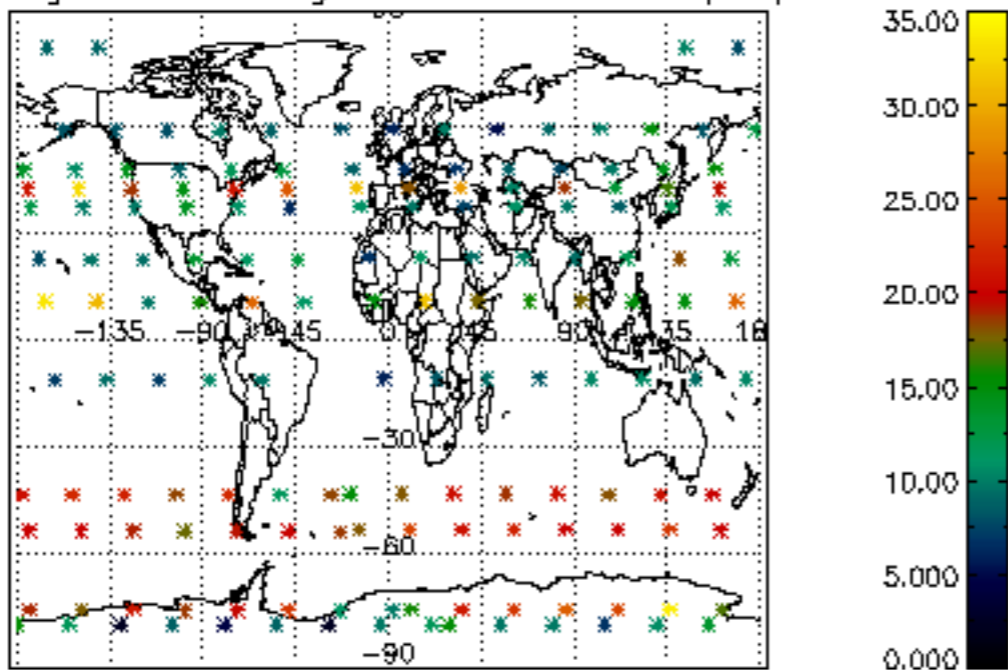
Percentage of cosmic ray hits per profile



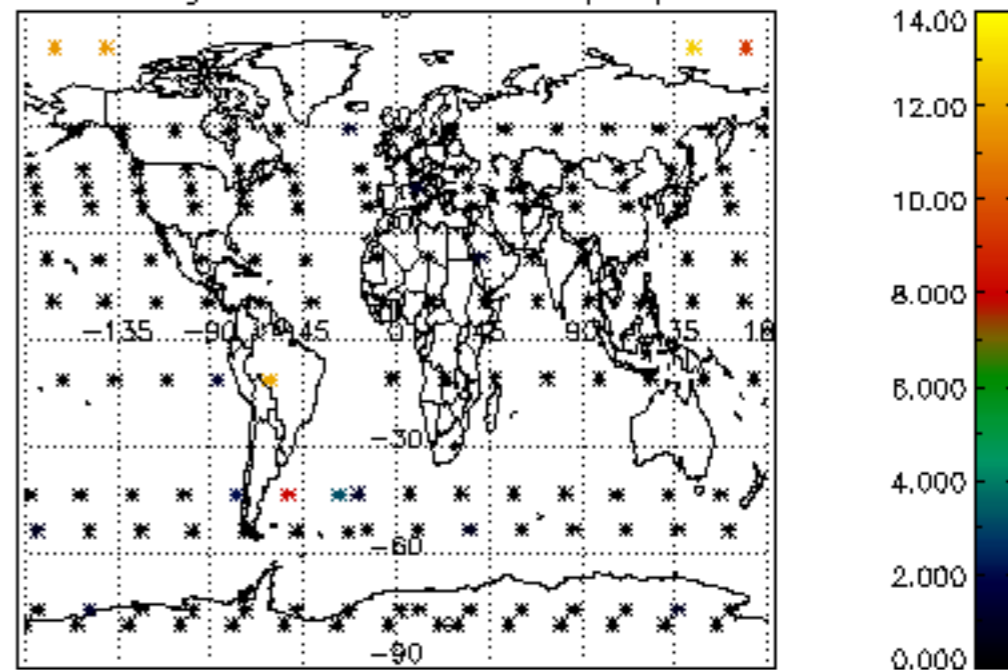
Percentage of datation errors per profile



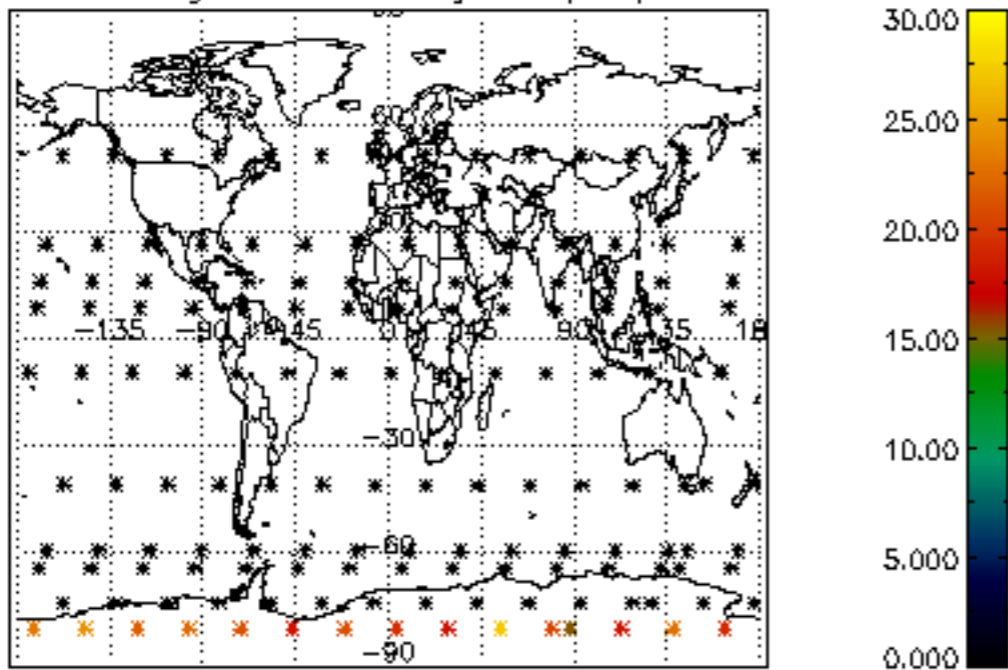
Percentage of star falling outside central band per profile



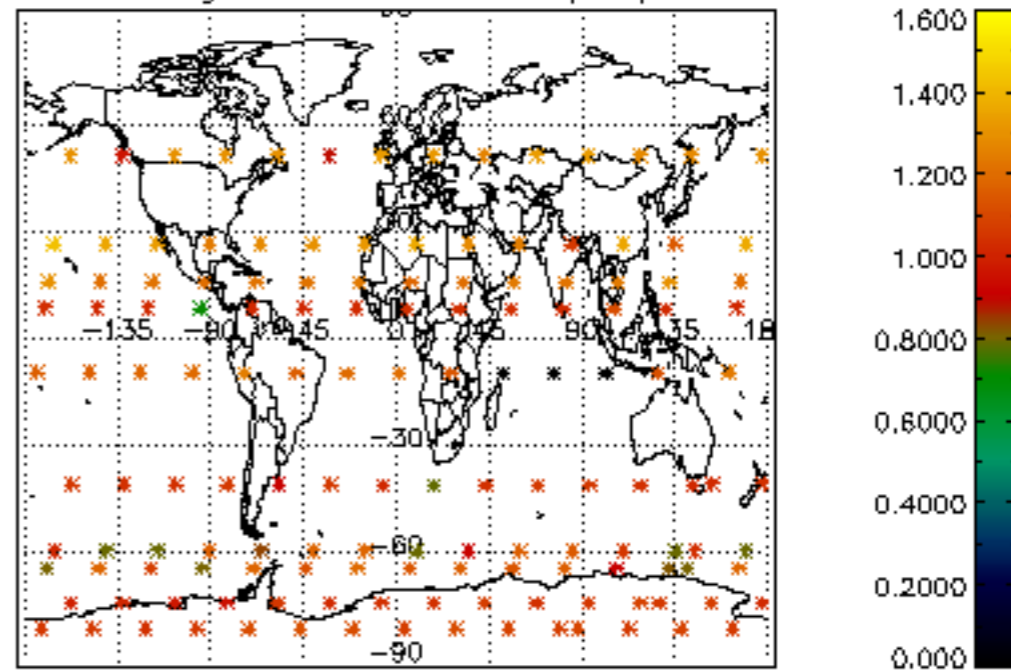
Percentage of saturation errors per profile



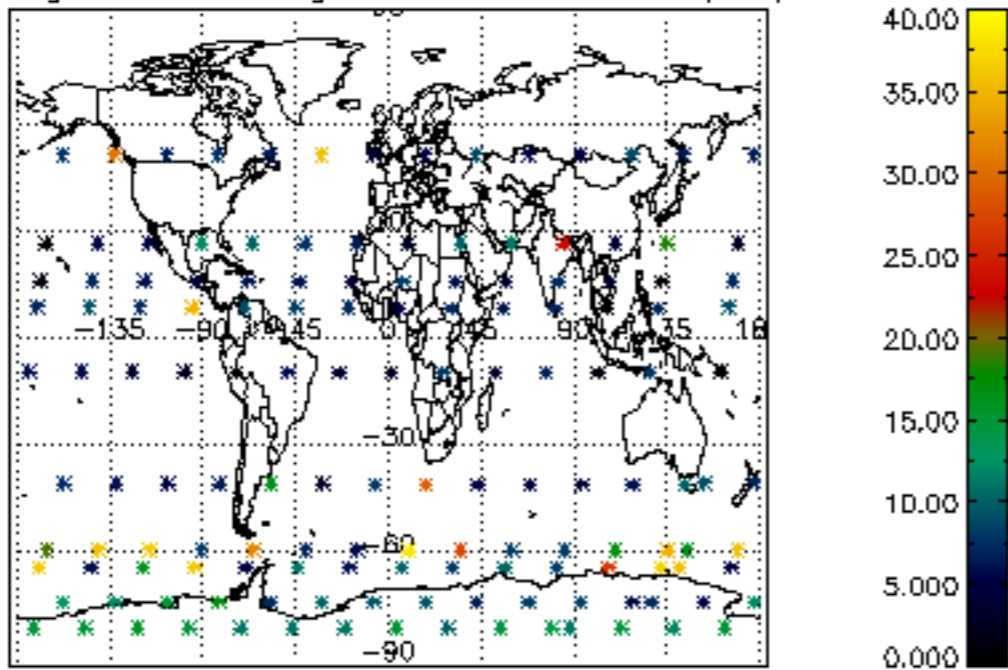
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

