

GOMOS Level 2 Daily Report

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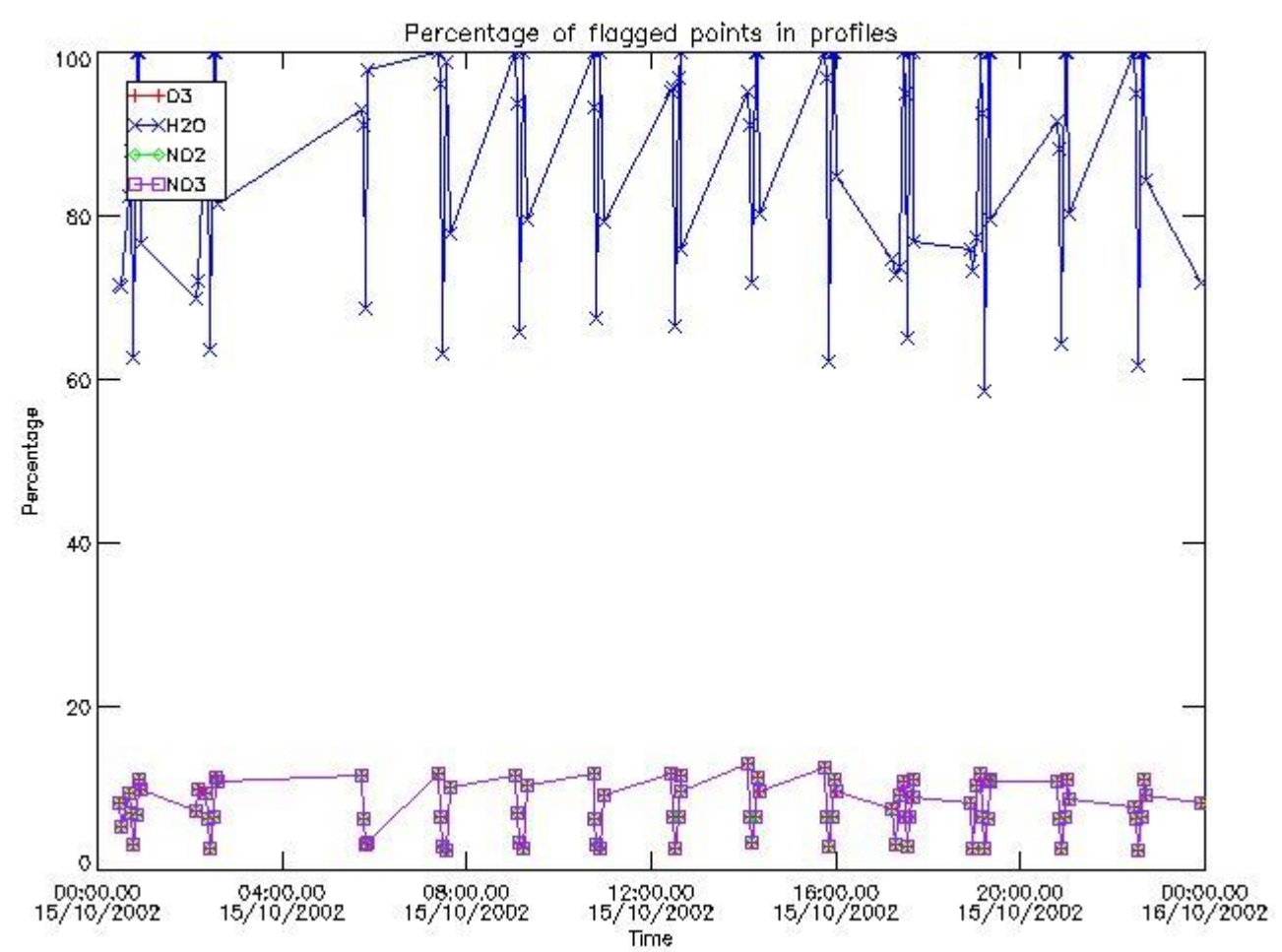
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161	GOM_NL__2PRFIN20021015_192022_000000462010_00214_03274_9013.N1	15-OCT-2002 19:20:22	Dark	46.000	143	Alp Hyi	2.8570	7200.0	92	3274	No
162	GOM_NL__2PRFIN20021015_192149_000000472010_00214_03274_9014.N1	15-OCT-2002 19:21:49	Dark	47.000	9	Alp Eri	0.45300	24000.	94	3274	No
163	GOM_NL__2PRFIN20021015_192421_000000562010_00214_03274_9015.N1	15-OCT-2002 19:24:21	Straylight	55.500	157	The1Eri	2.9060	9300.0	111	3274	No
164	GOM_NL__2PRFIN20021015_192650_000000492010_00214_03274_9016.N1	15-OCT-2002 19:26:50	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	3274	No
165	GOM_NL__2PRFIN20021015_204822_000000482010_00215_03275_9029.N1	15-OCT-2002 20:48:22	Dark	47.500	159	Ups Car	2.9200	7200.0	95	3275	No
166	GOM_NL__2PRFIN20021015_205038_000000812010_00215_03275_9030.N1	15-OCT-2002 20:50:38	Dark	80.500	23	21Eps CMa	1.5020	26000.	161	3275	No
167	GOM_NL__2PRFIN20021015_205323_000002022010_00215_03275_9031.N1	15-OCT-2002 20:53:23	Dark	202.00	1	9Alp CMa	-1.4400	11000.	404	3275	No
168	GOM_NL__2PRFIN20021015_205751_000000782010_00215_03275_9032.N1	15-OCT-2002 20:57:51	Dark	78.000	108	Alp Col	2.6520	15200.	156	3275	No
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170	GOM_NL__2PRFIN20021015_210224_000000592010_00215_03275_9034.N1	15-OCT-2002 21:02:24	Dark	59.000	9	Alp Eri	0.45300	24000.	118	3275	No
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182	GOM_NL__2PRFIN20021015_232816_000000422010_00216_03276_2551.N1	15-OCT-2002 23:28:16	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	3276	No
183	GOM_NL__2PRFIN20021015_233329_000000462010_00216_03276_2552.N1	15-OCT-2002 23:33:29	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	3276	No
184	GOM_NL__2PRFIN20021015_233503_000000442010_00216_03276_2553.N1	15-OCT-2002 23:35:03	Bright	43.500	82	48Bet UMa	2.3650	10600.	87	3276	No
185	GOM_NL__2PRFIN20021015_233826_000000452010_00216_03276_2554.N1	15-OCT-2002 23:38:26	Bright	45.000	174	52Psi UMa	3.0040	4400.0	90	3276	No
186	GOM_NL__2PRFIN20021015_234356_000001042010_00216_03276_2555.N1	15-OCT-2002 23:43:56	Bright	104.00	24	66Alp Gem	1.5800	10200.	208	3276	No
187	GOM_NL__2PRFIN20021015_234831_000000792010_00216_03276_2556.N1	15-OCT-2002 23:48:31	Dark	79.000	1015	Jupiter	0.0000	0.0000	158	3276	Yes
188	GOM_NL__2PRFIN20021015_235602_000000632010_00216_03276_2557.N1	15-OCT-2002 23:56:02	Dark	62.500	48	30Alp Hya	1.9770	4100.0	125	3276	No

3. Quality information per product

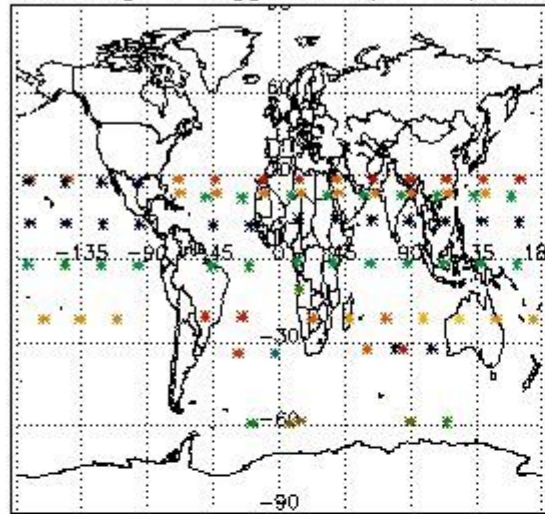
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

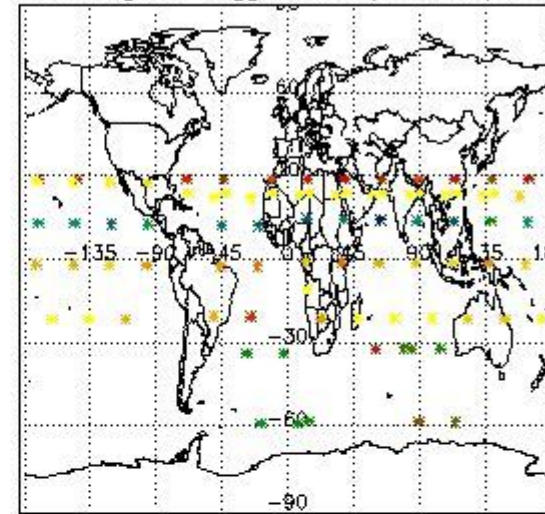


3.2 Plot quality information per product (world map)

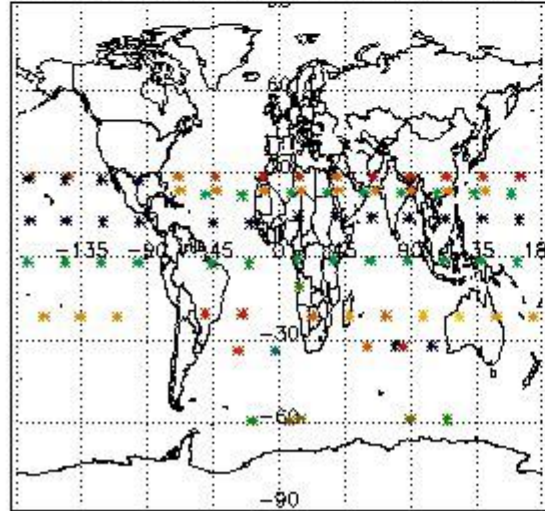
Percentage of flagged data per O3 profile



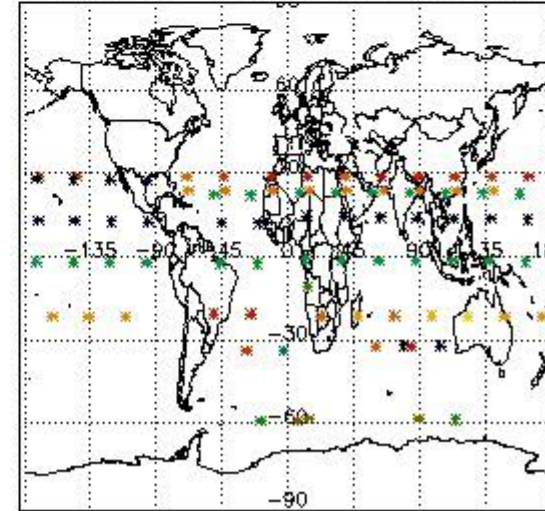
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

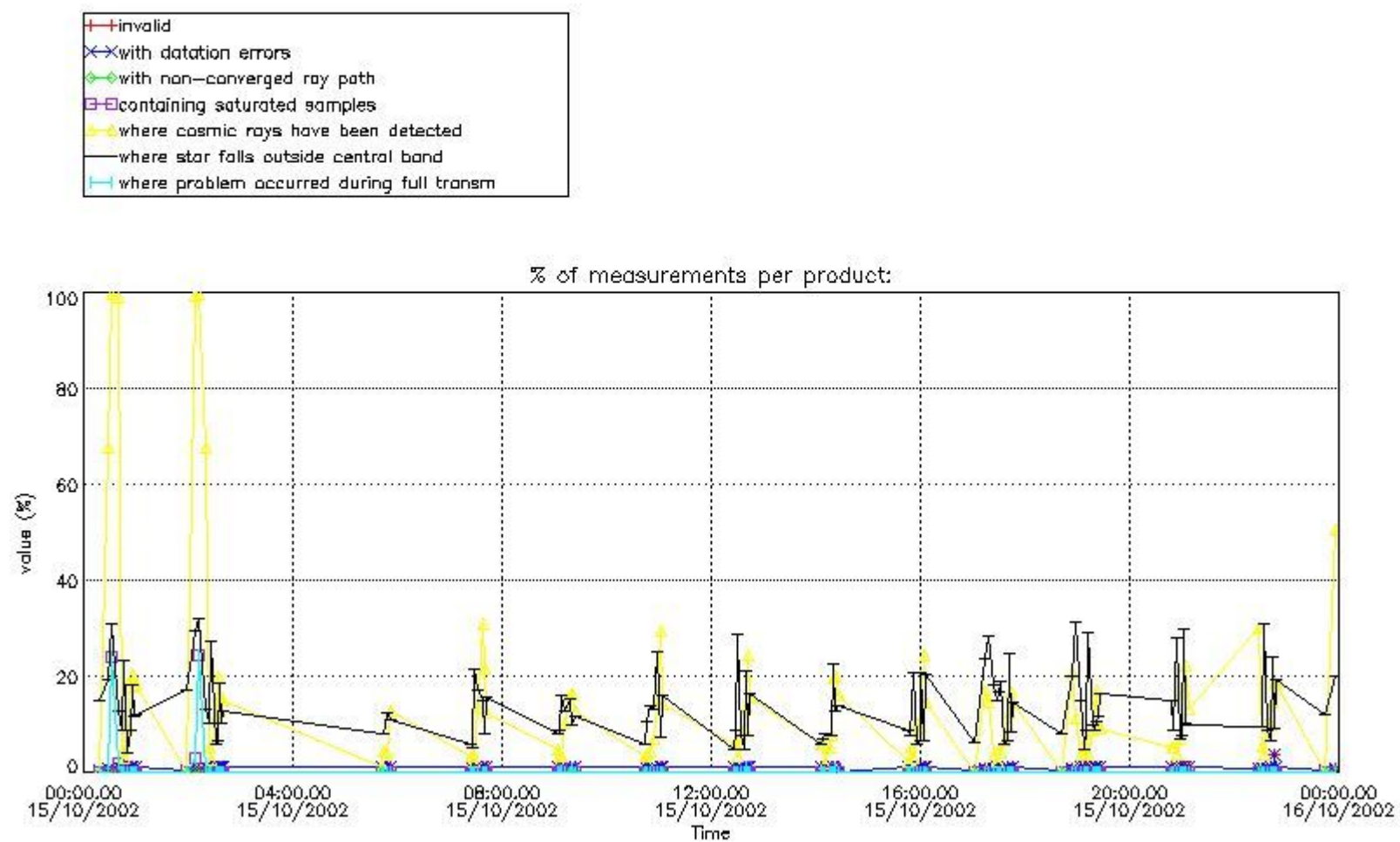


4. Level 1 quality information per product

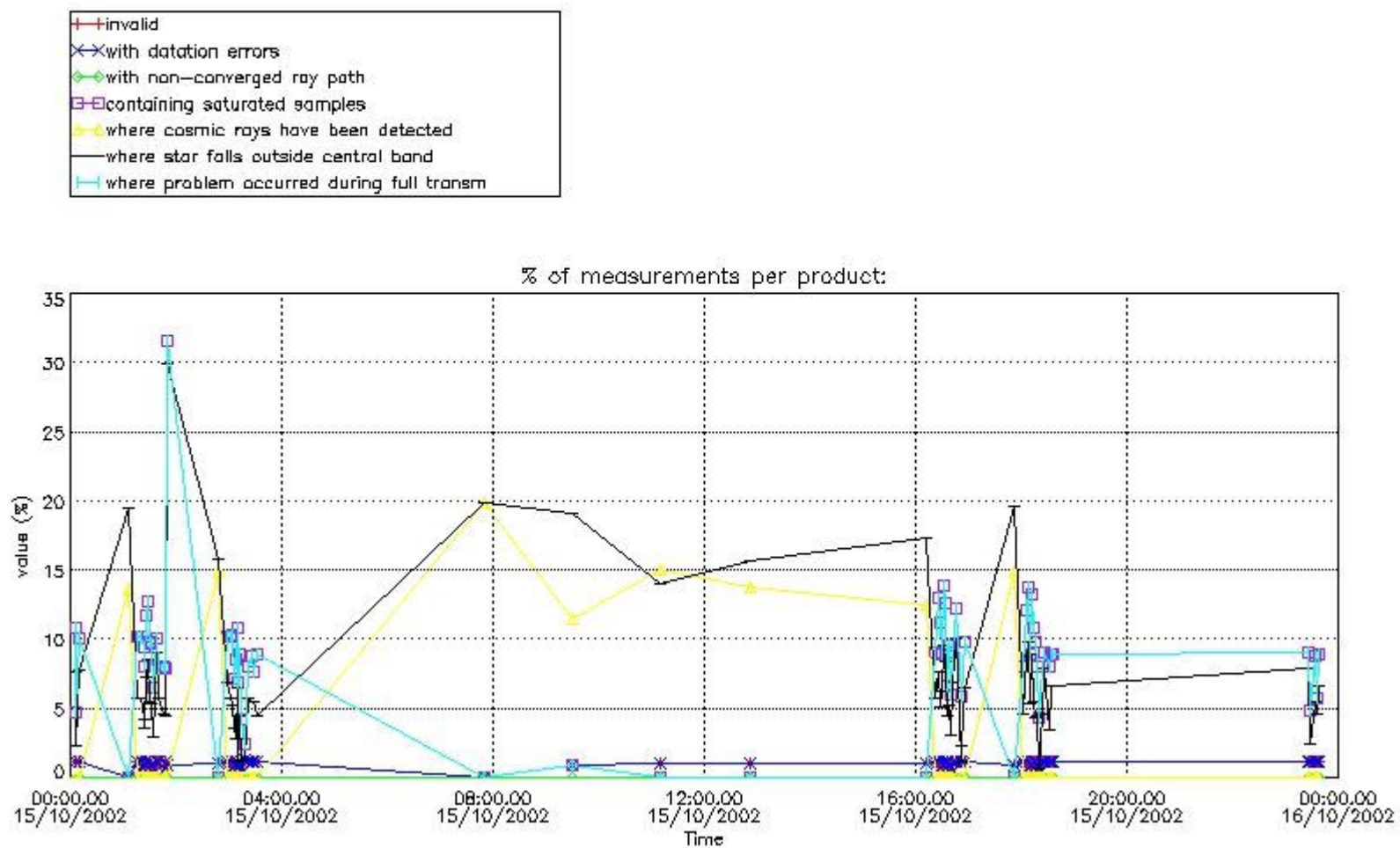
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



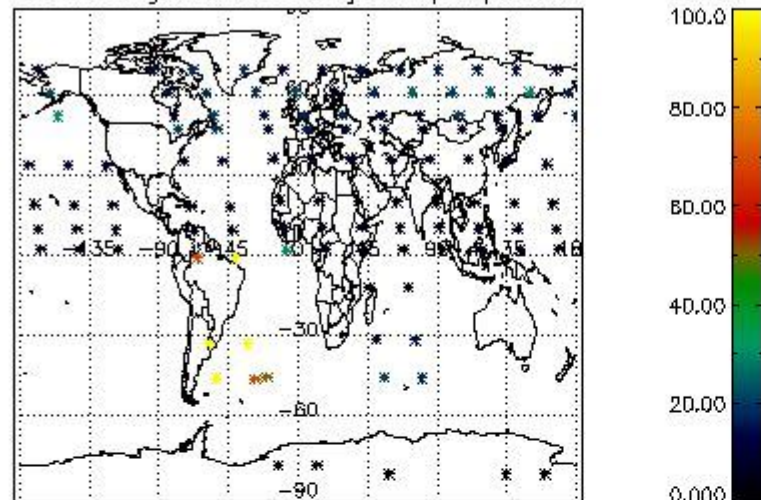
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



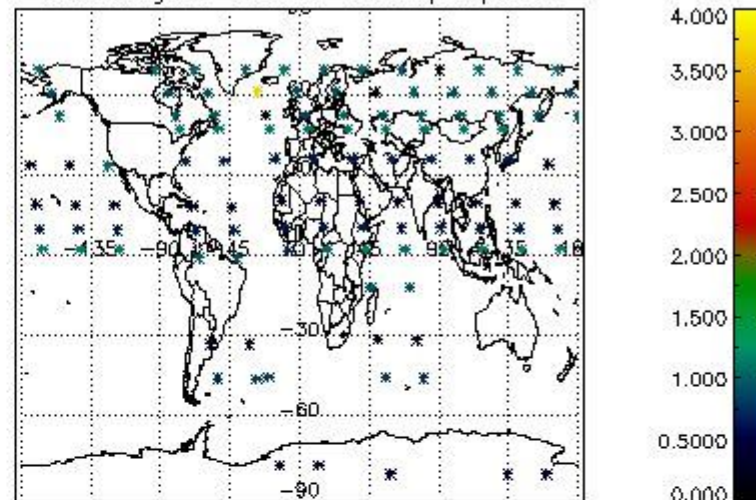
4.2 Plot quality information per product coming from level 1b processing (world map)

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

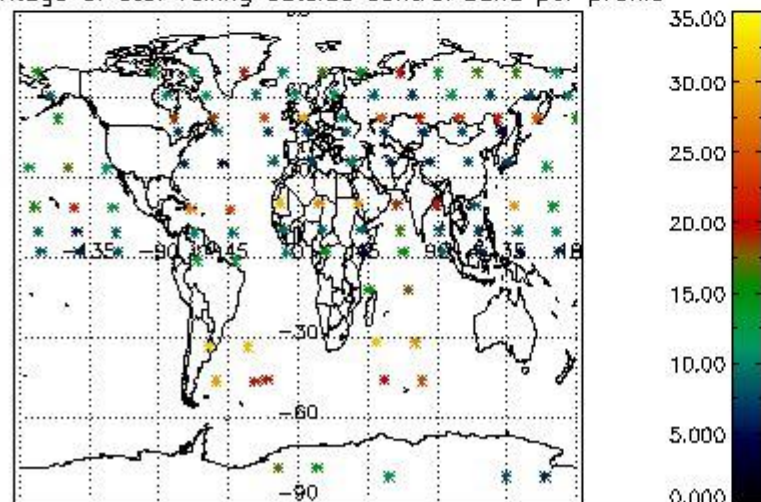
Percentage of cosmic ray hits per profile



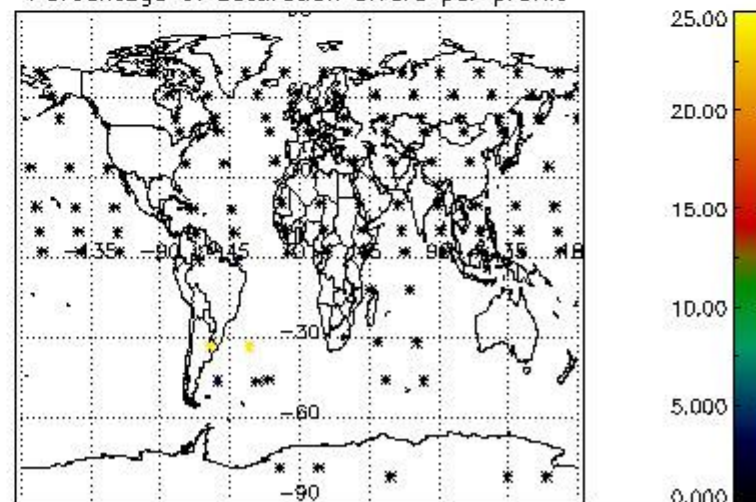
Percentage of datation errors per profile



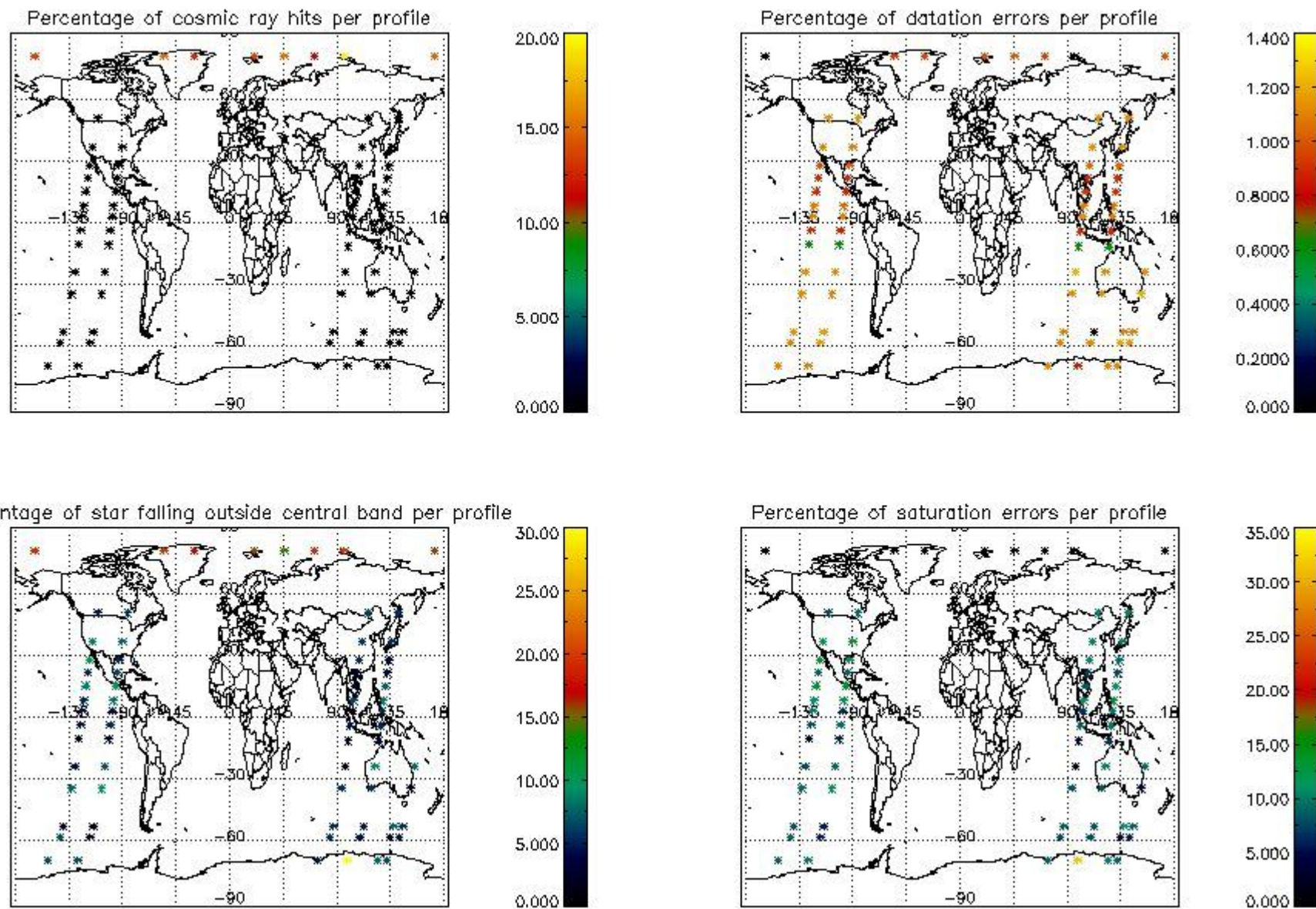
Percentage of star falling outside central band per profile



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

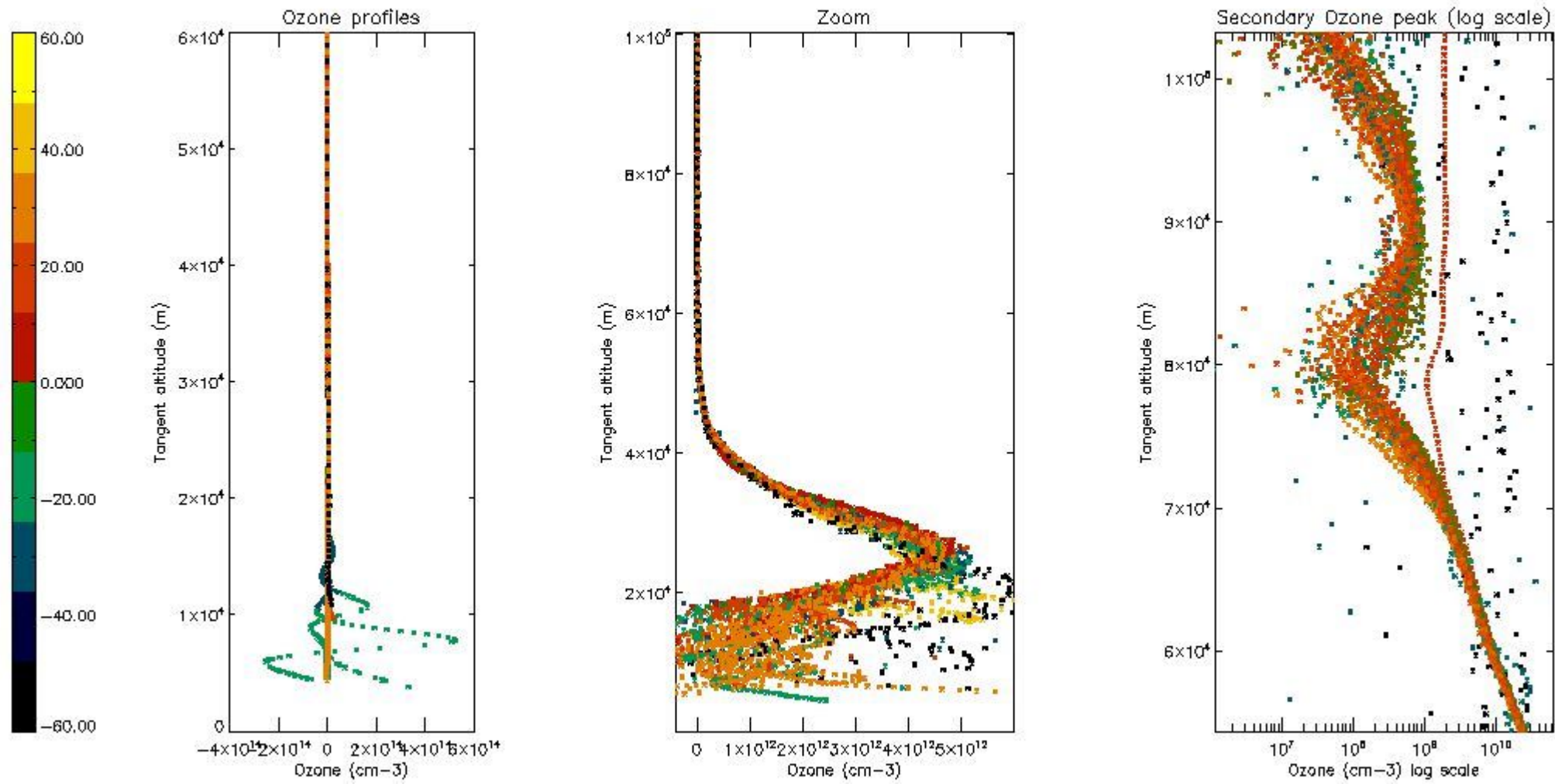
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	61
STD < 20	39

STD < 10	36
STD < 5	30

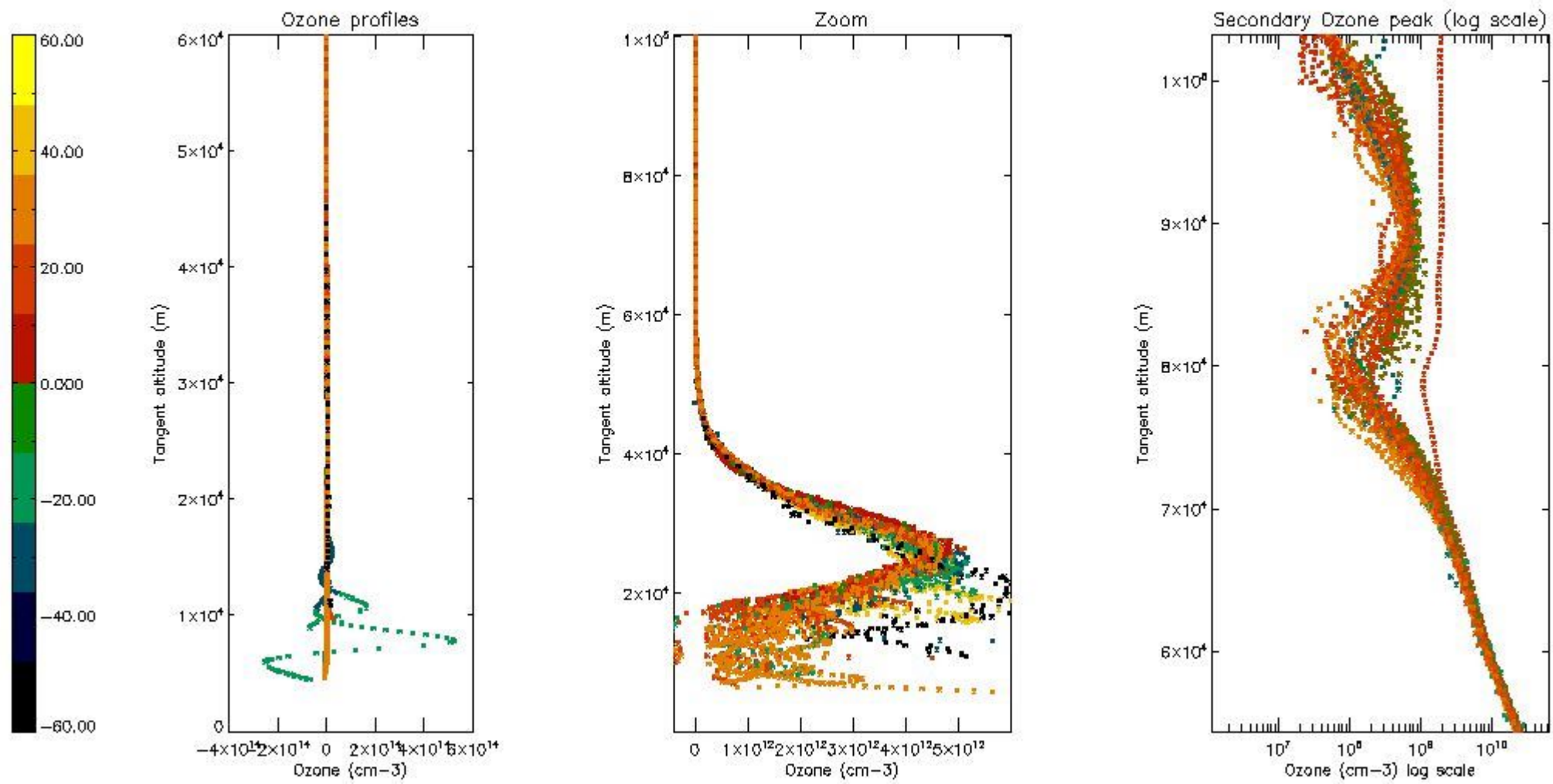
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



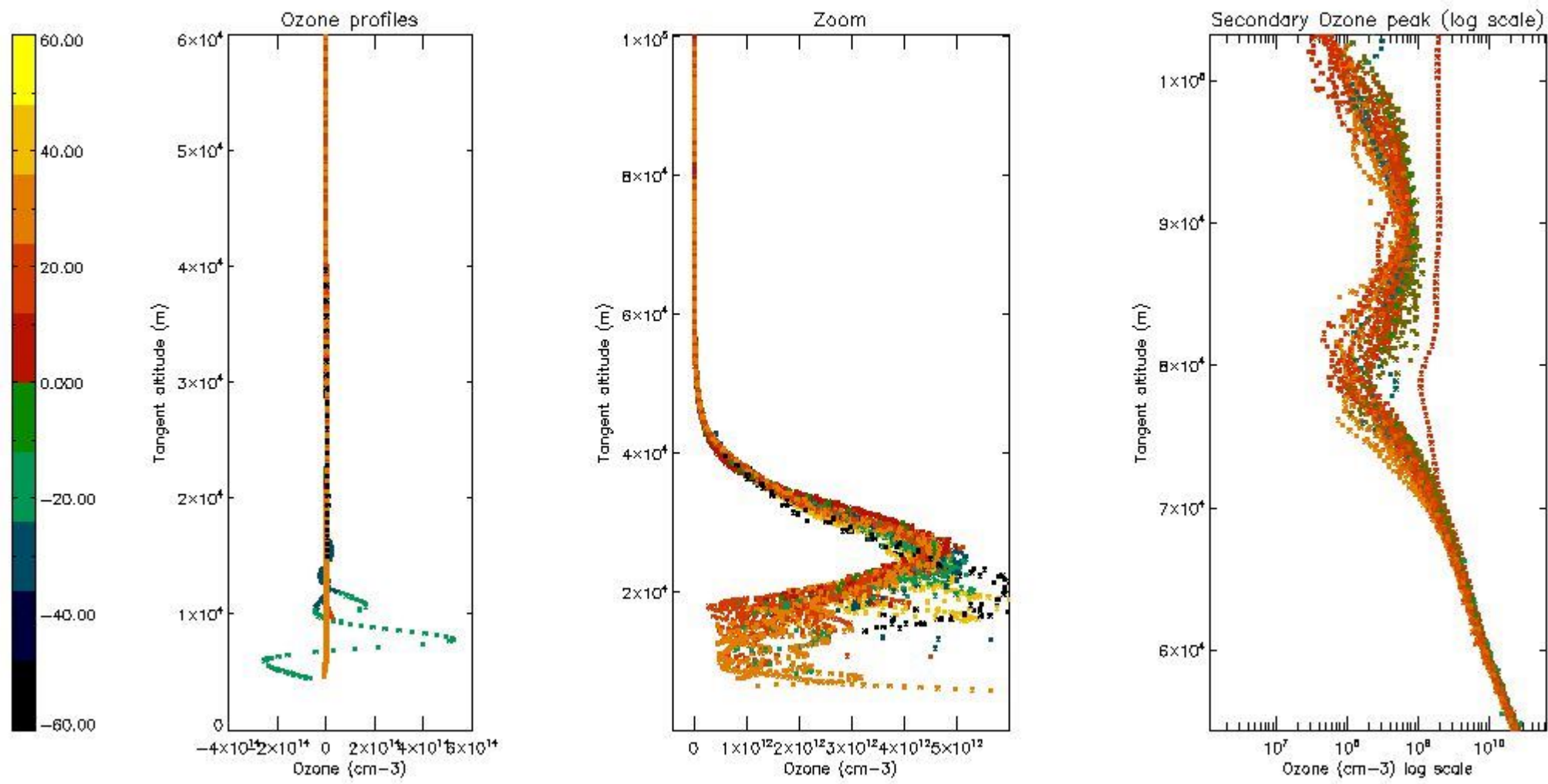
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



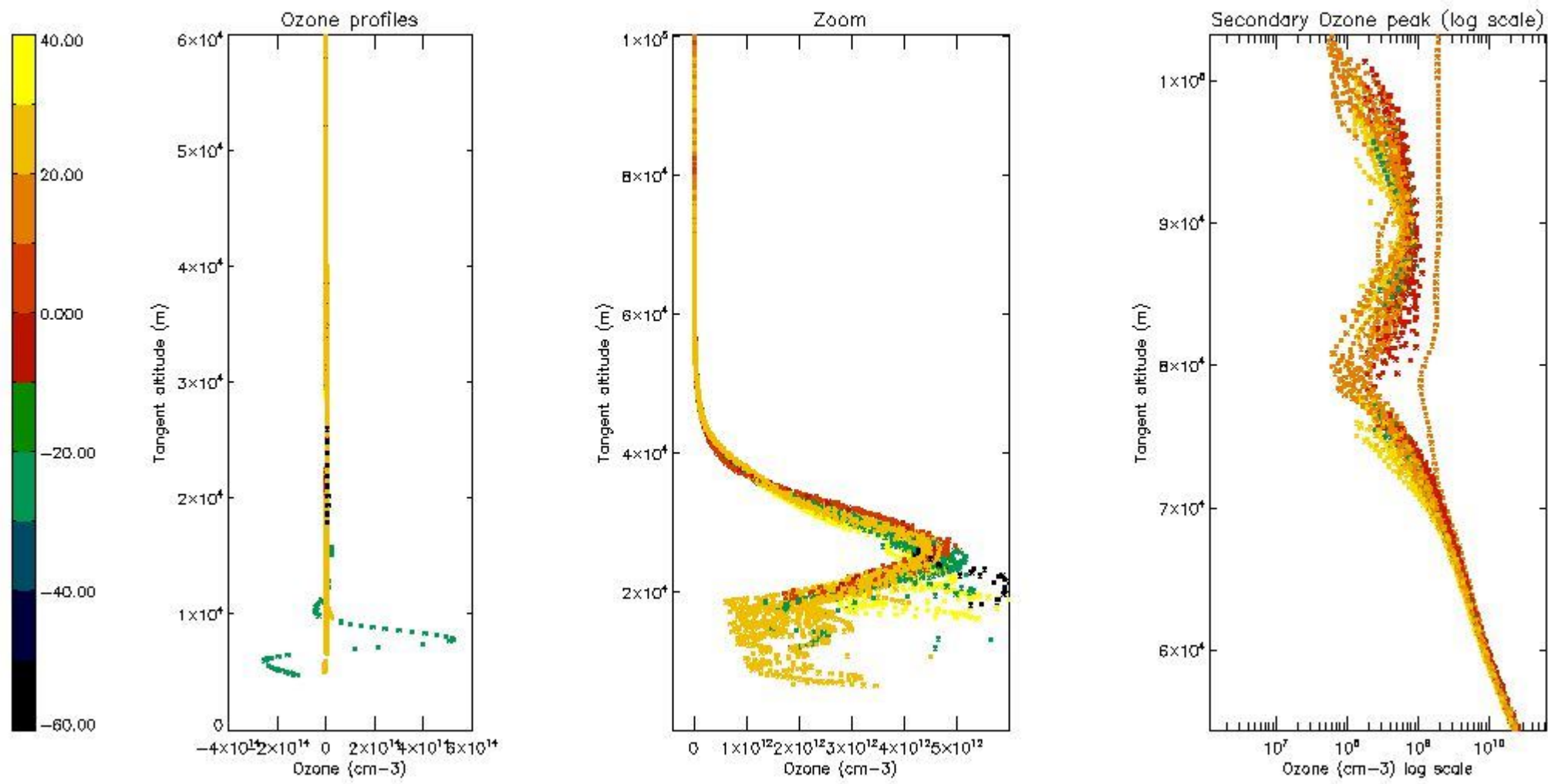
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



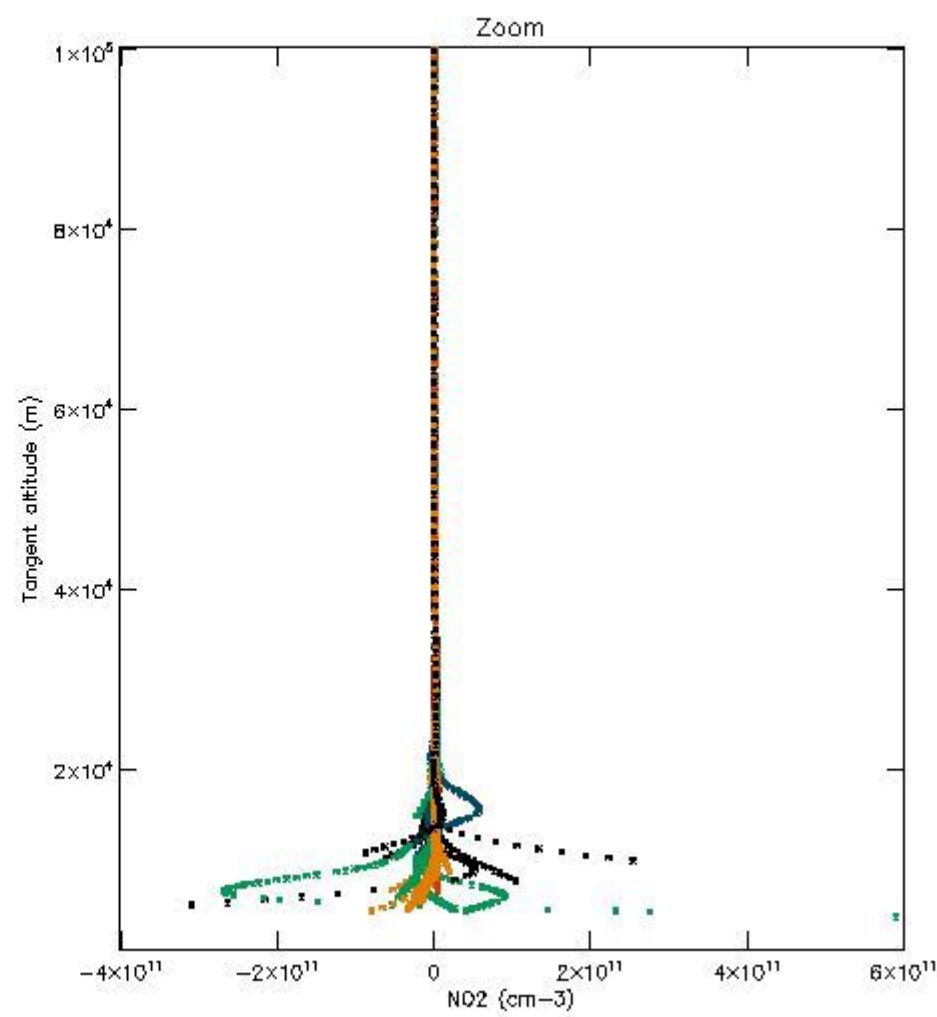
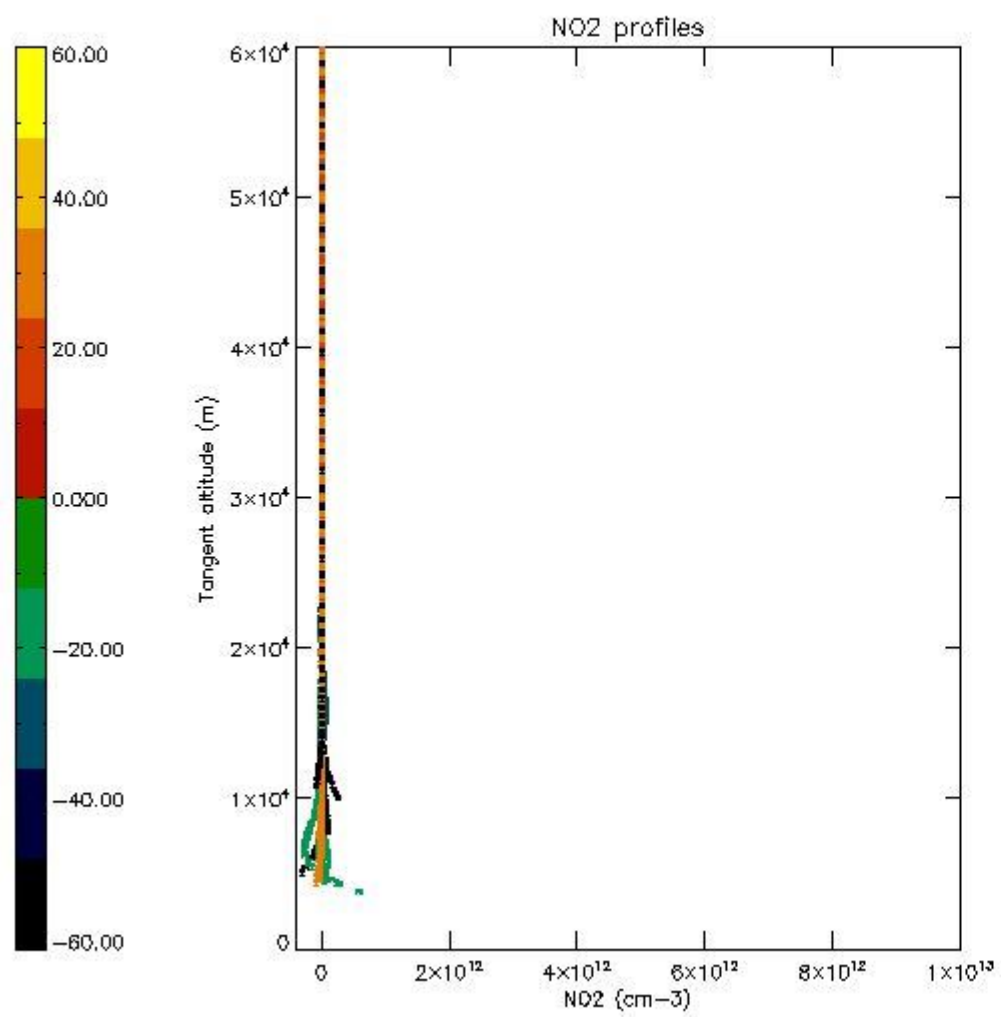
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



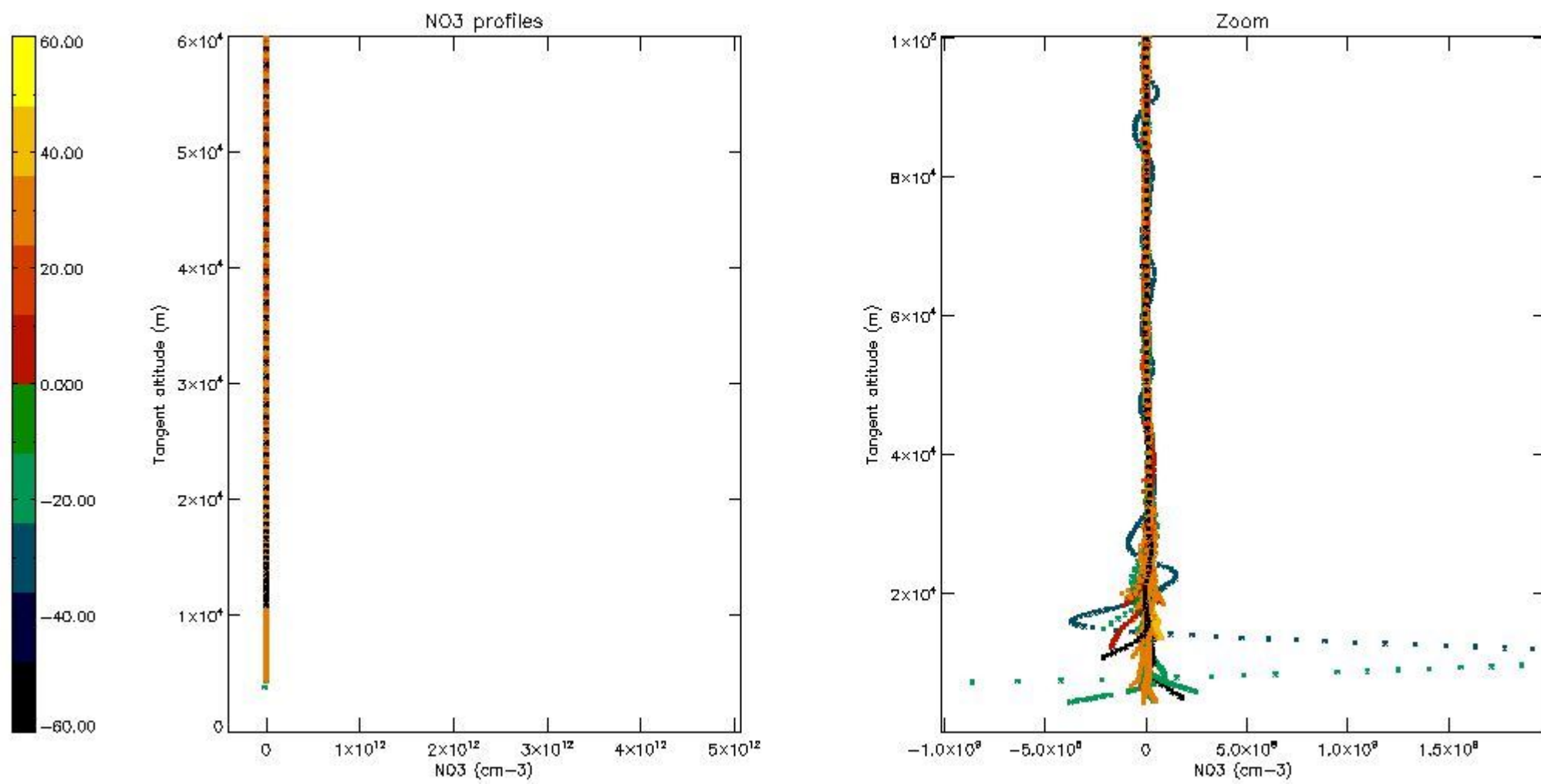
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



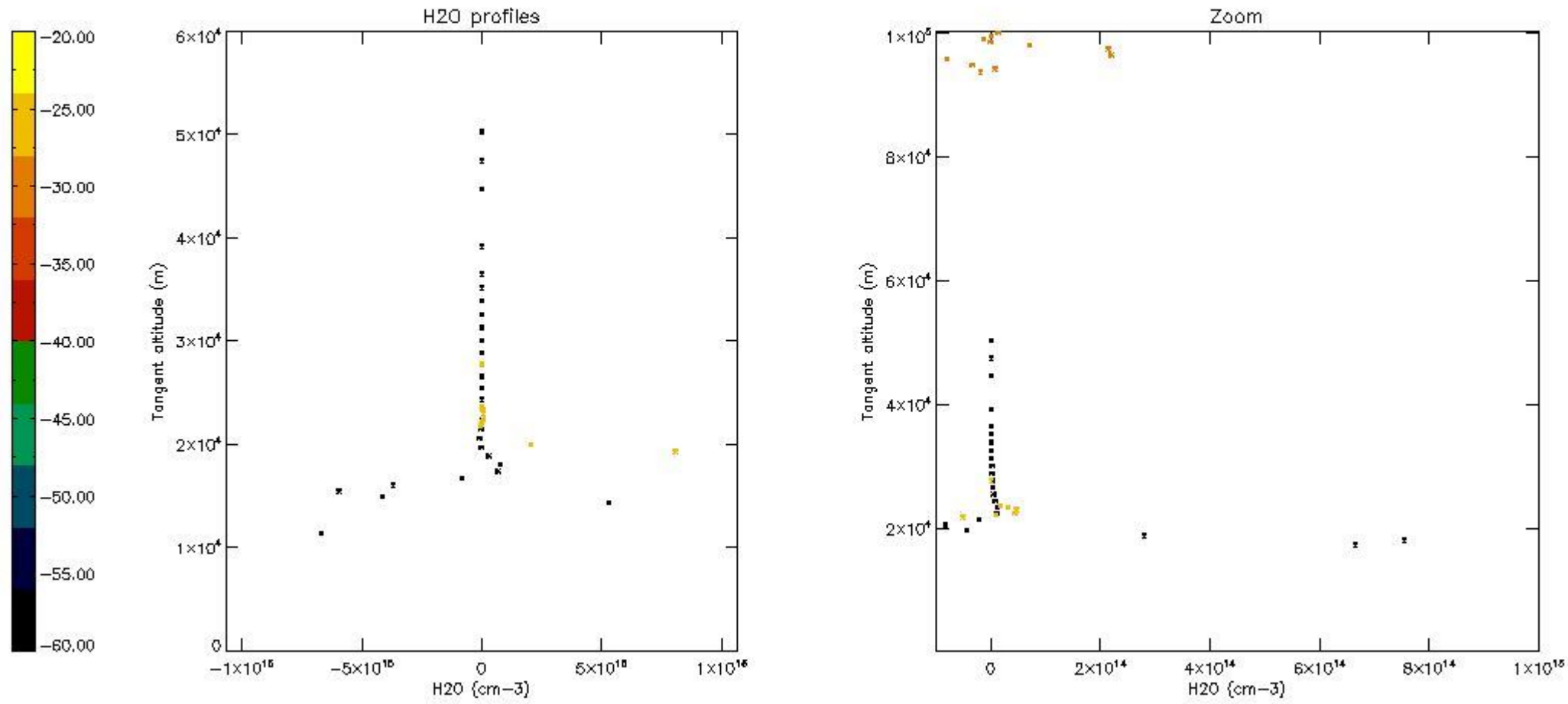
5.7 Plot NO3 profiles for all STD (dark without errors)

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_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	15-OCT-2002 00:05:07
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-OCT-2002 00:05:07
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-OCT-2002 00:05:07

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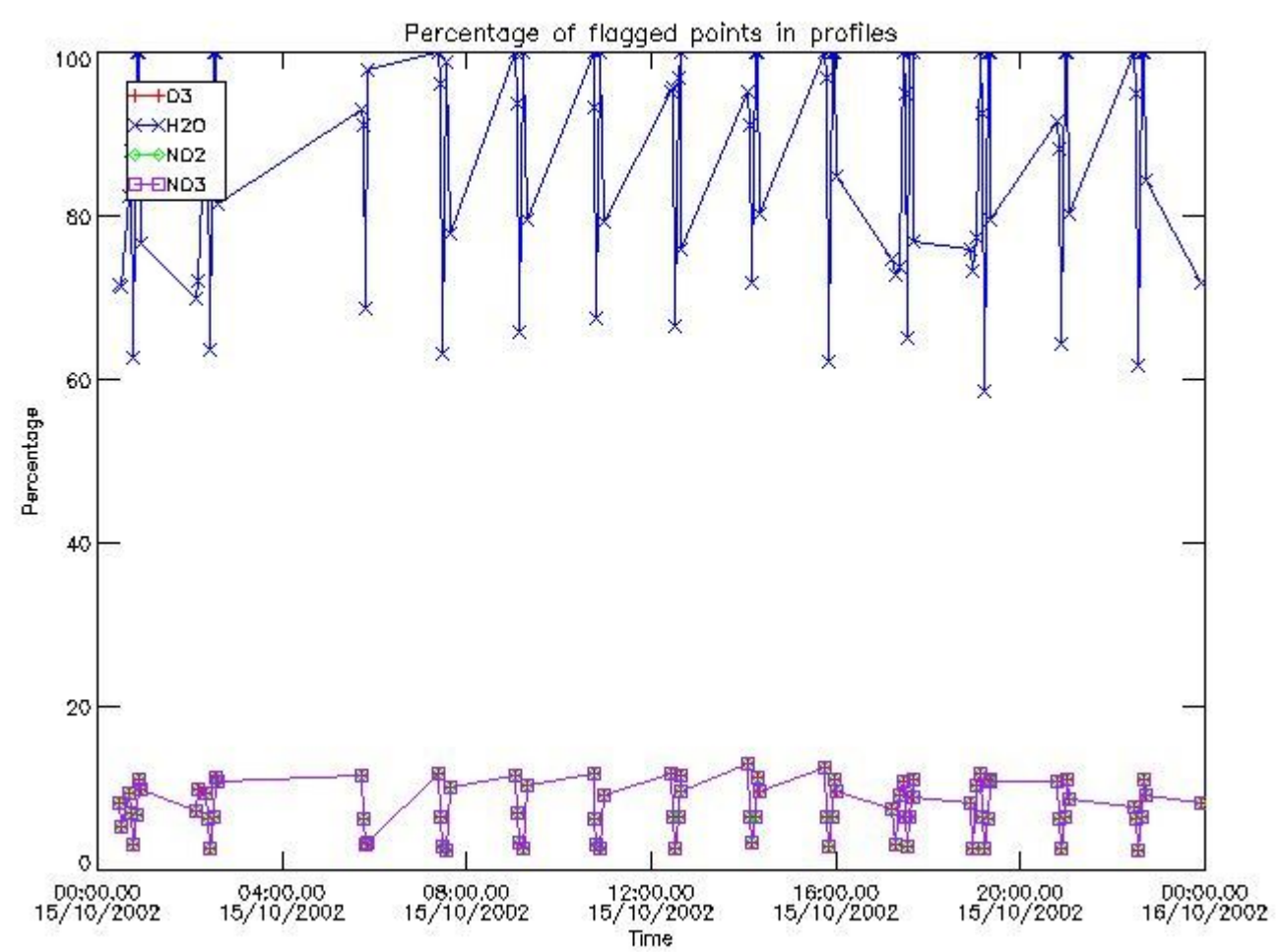
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188	GOM_NL__2PRFIN20021015_235602_000000632010_00216_03276_2557.N1	15-OCT-2002 23:56:02	Dark	62.500	48	30Alp Hya	1.9770	4100.0	125	3276	No

3. Quality information per product

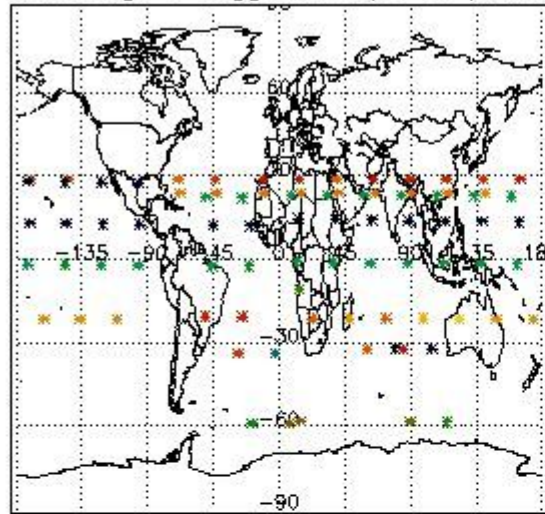
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

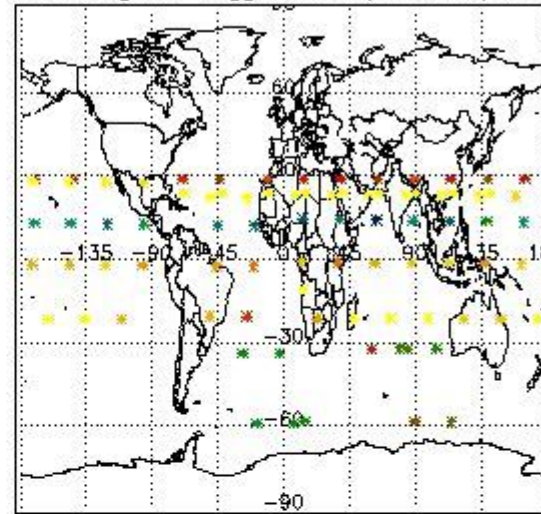


3.2 Plot quality information per product (world map)

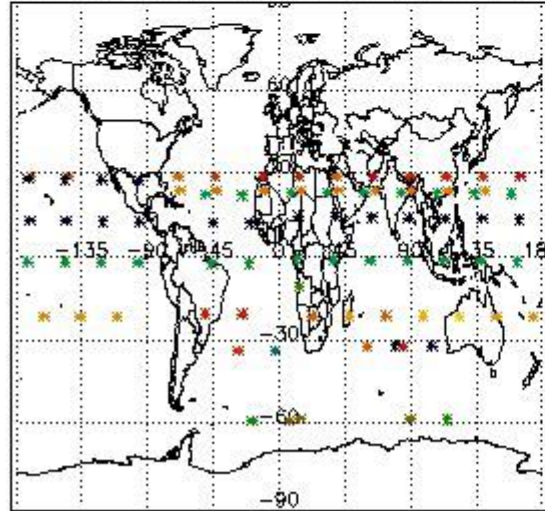
Percentage of flagged data per O3 profile



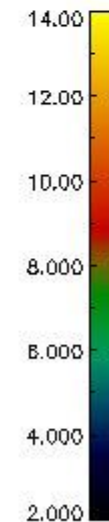
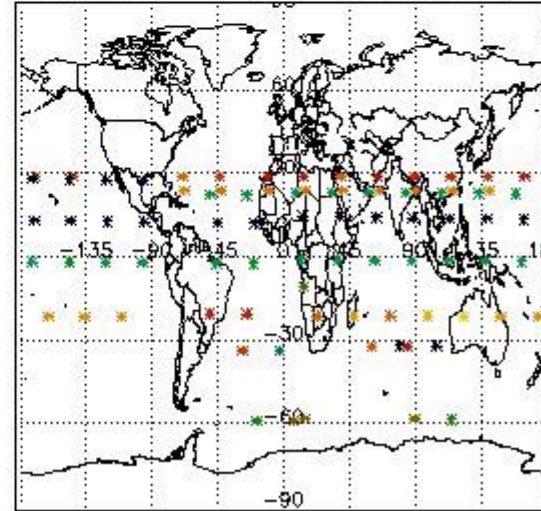
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

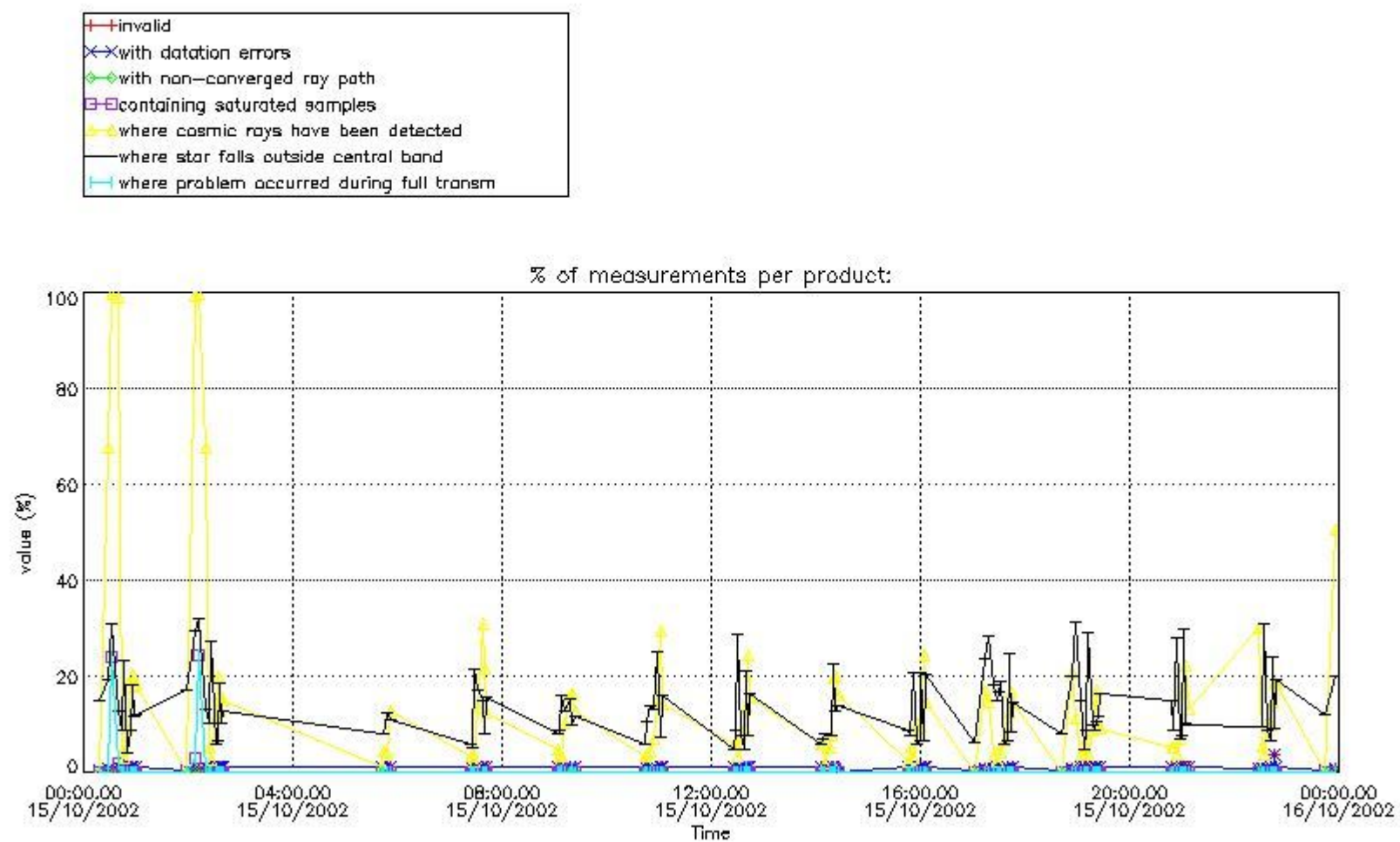


4. Level 1 quality information per product

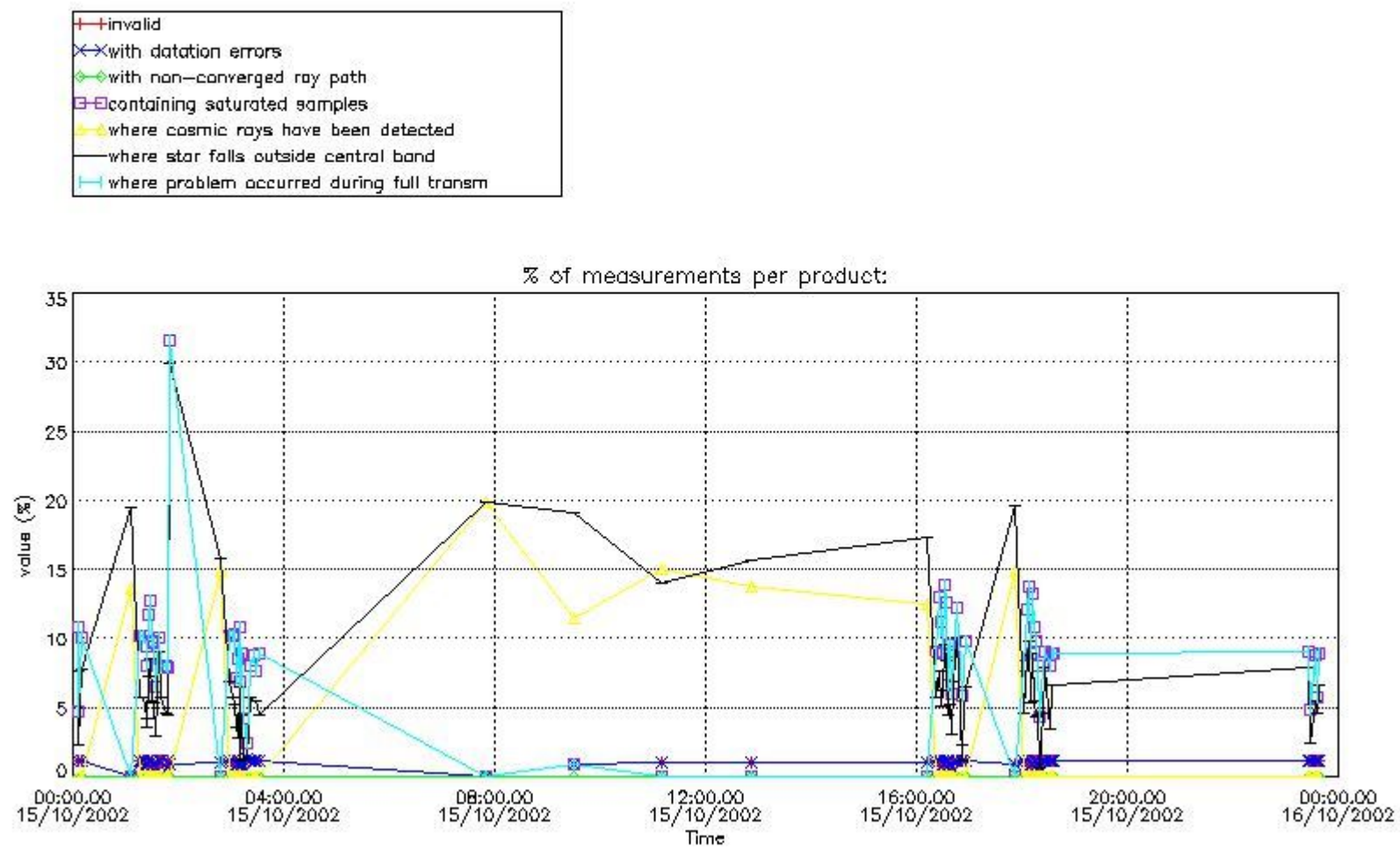
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



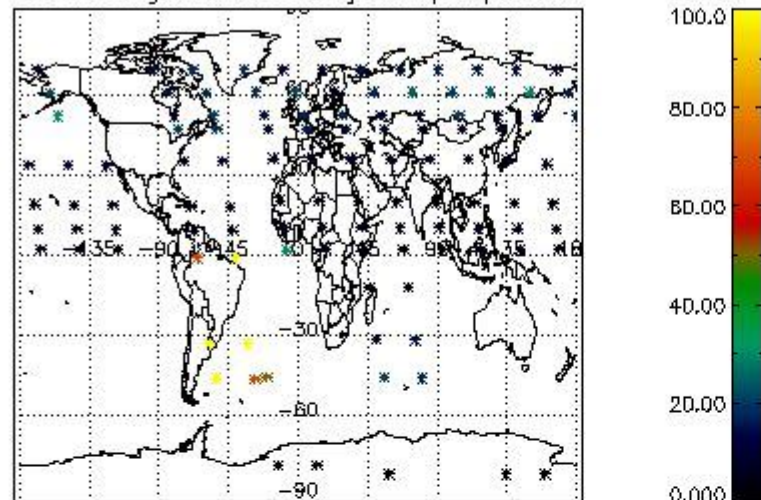
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



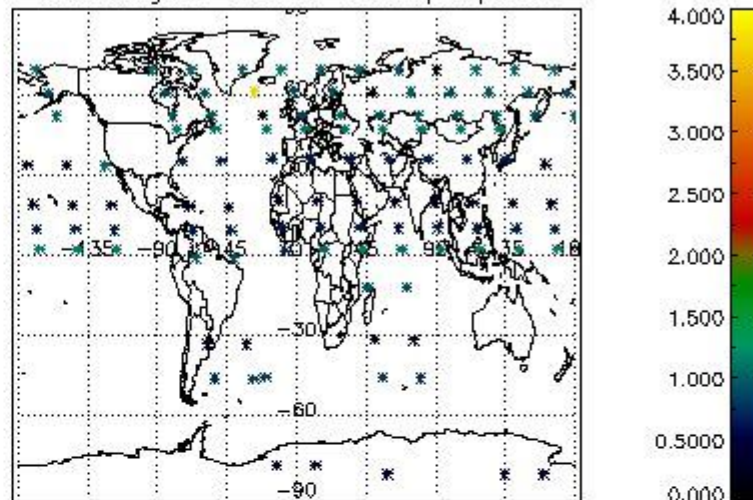
4.2 Plot quality information per product coming from level 1b processing (world map)

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

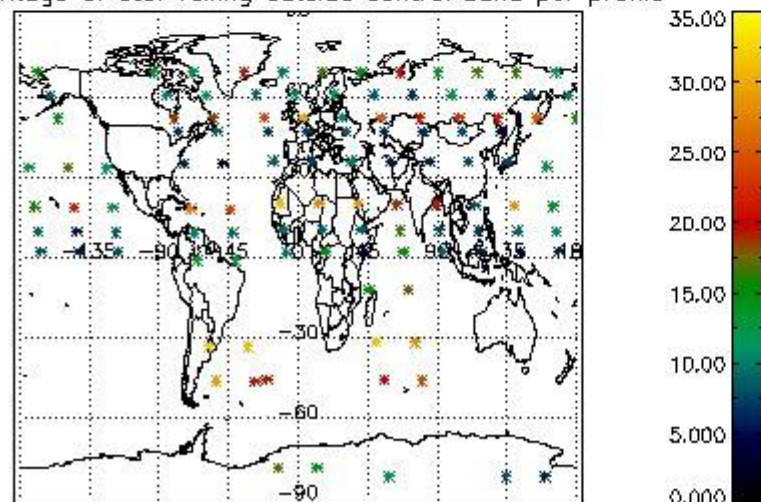
Percentage of cosmic ray hits per profile



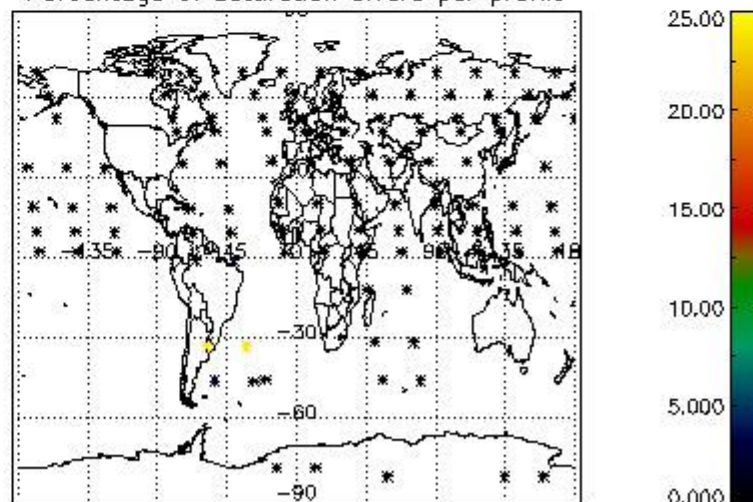
Percentage of datation errors per profile



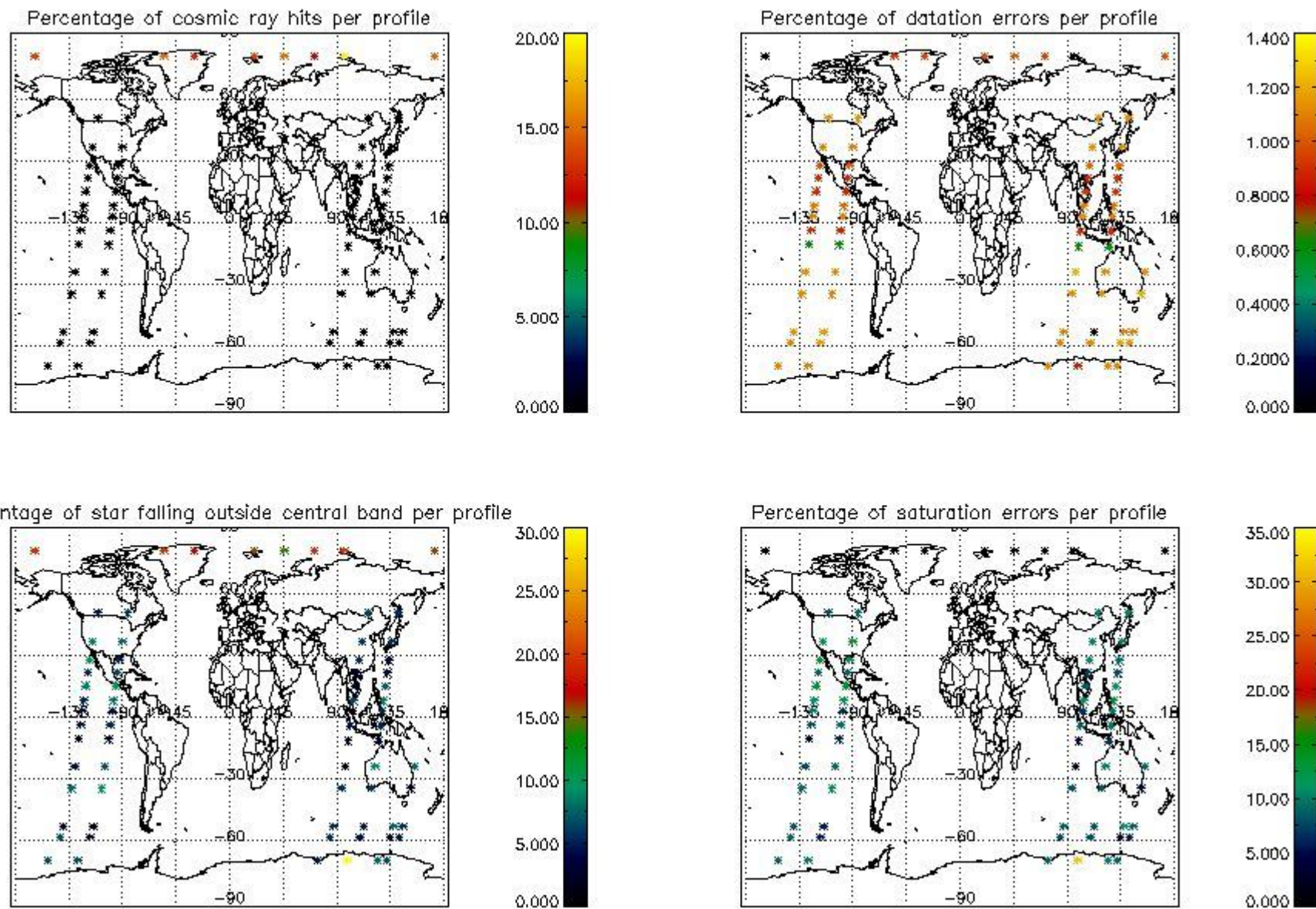
Percentage of star falling outside central band per profile



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

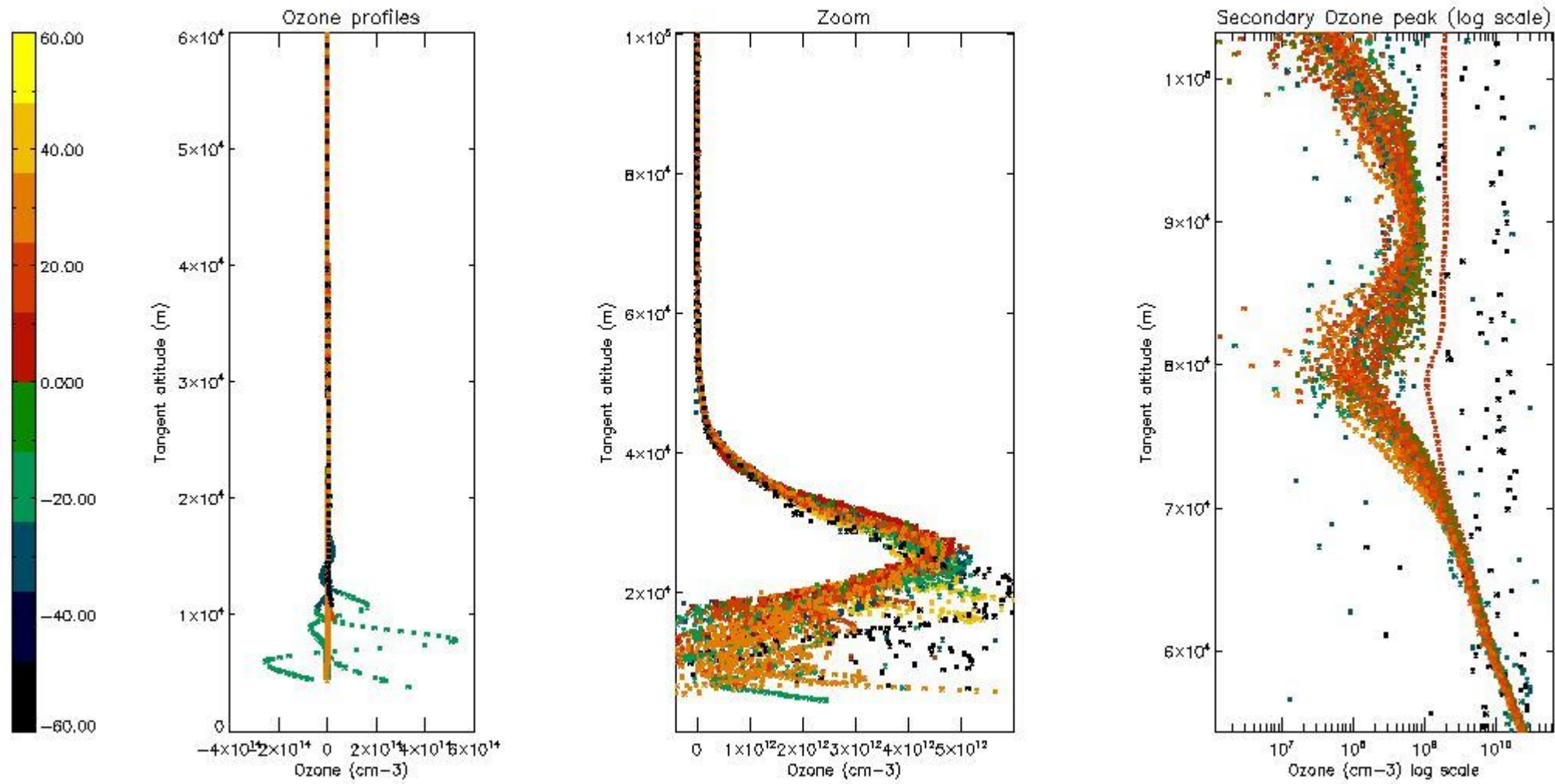
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	61
STD < 20	39

STD < 10	36
STD < 5	30

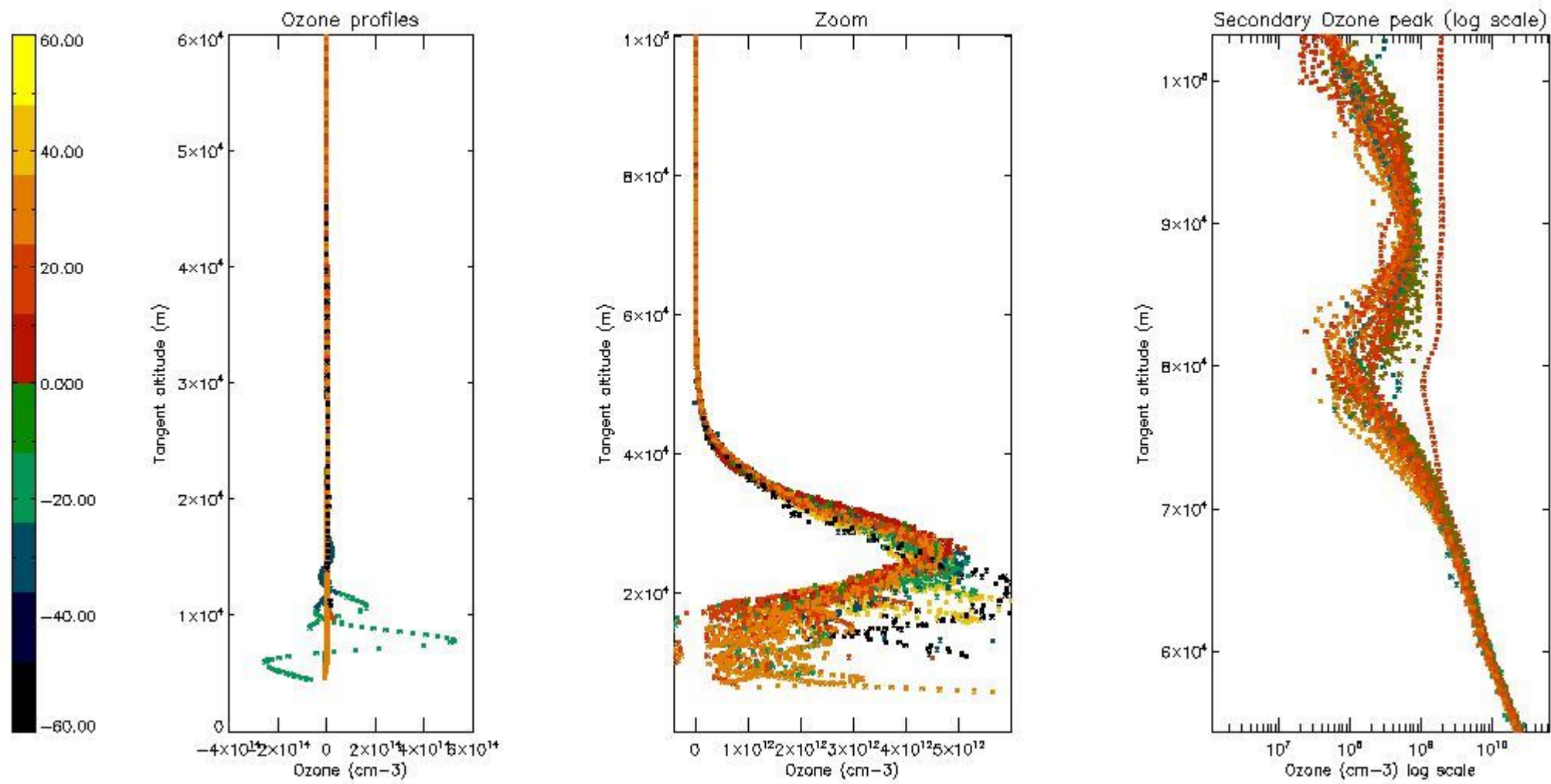
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



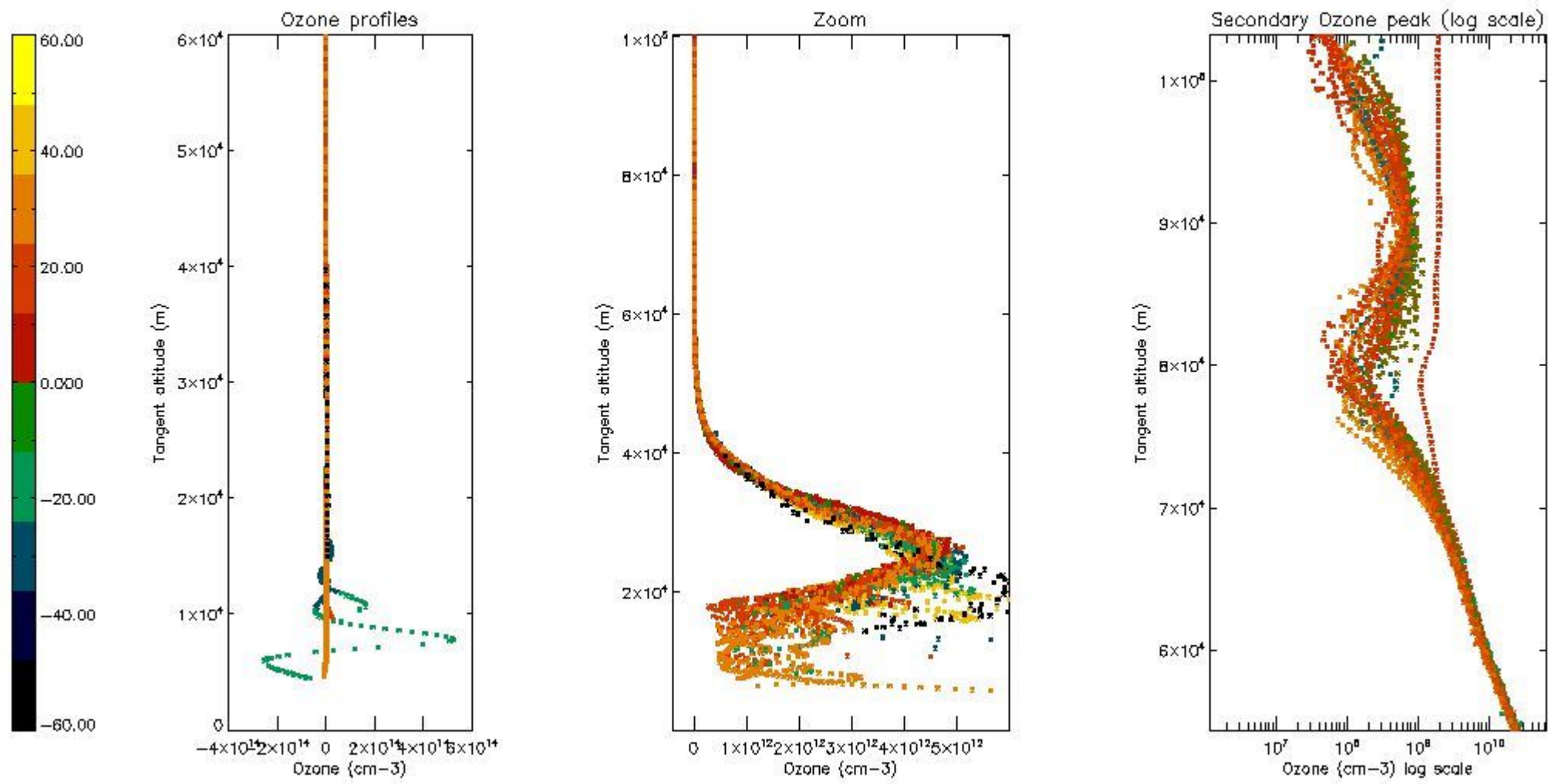
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



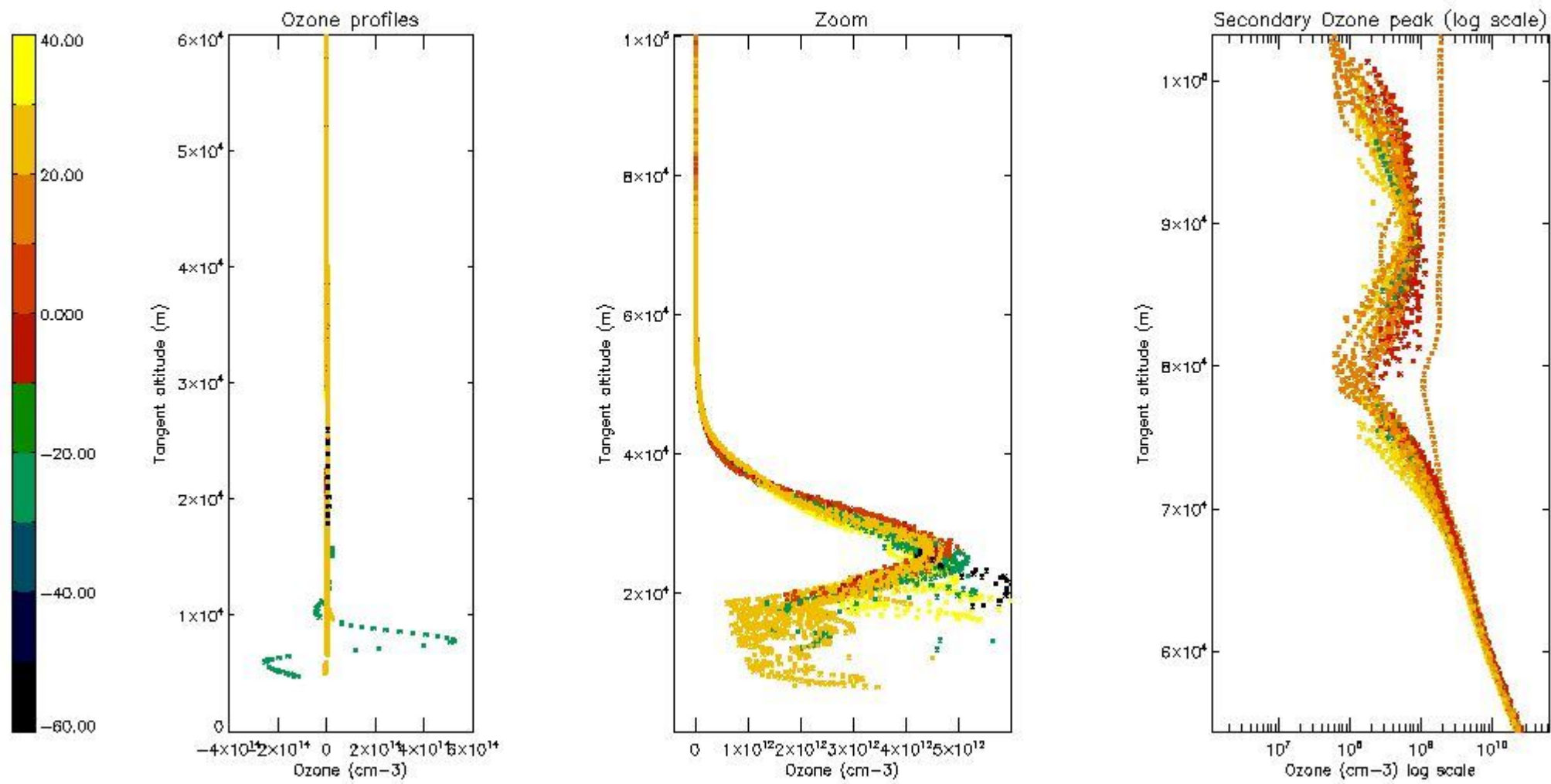
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



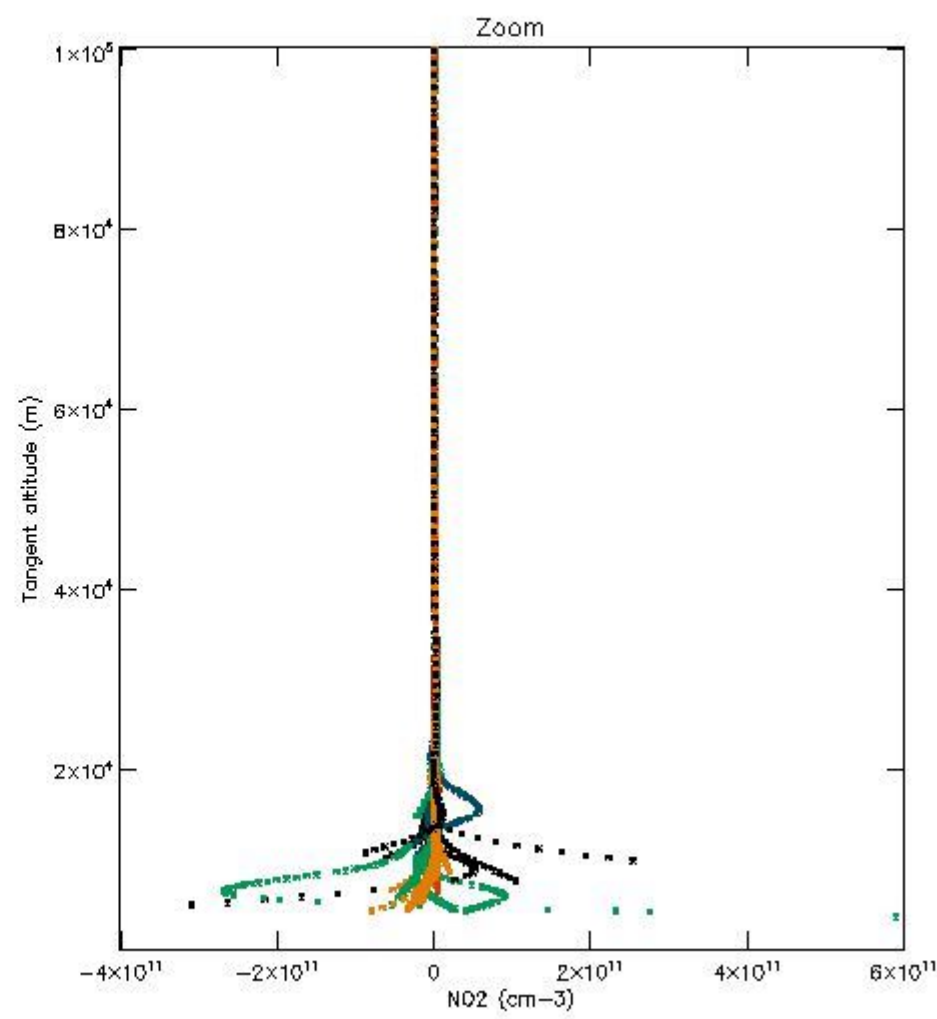
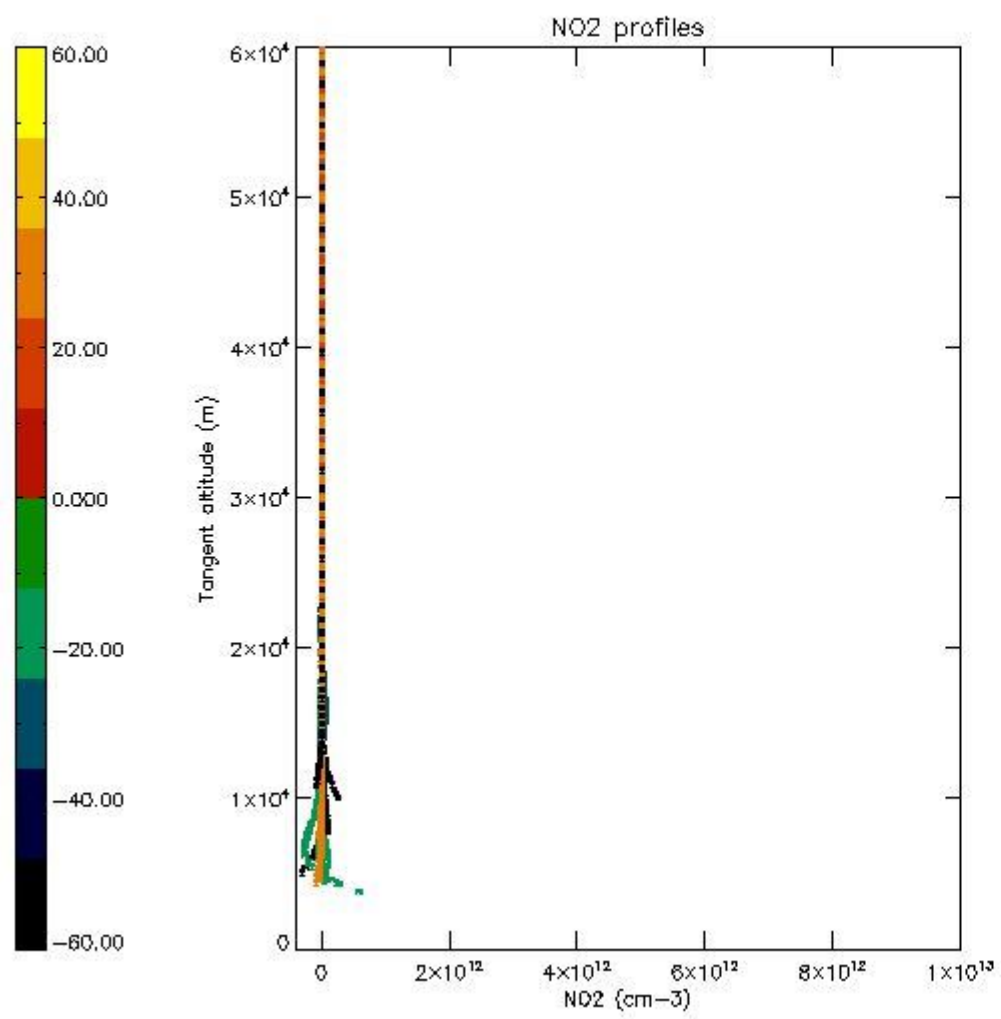
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



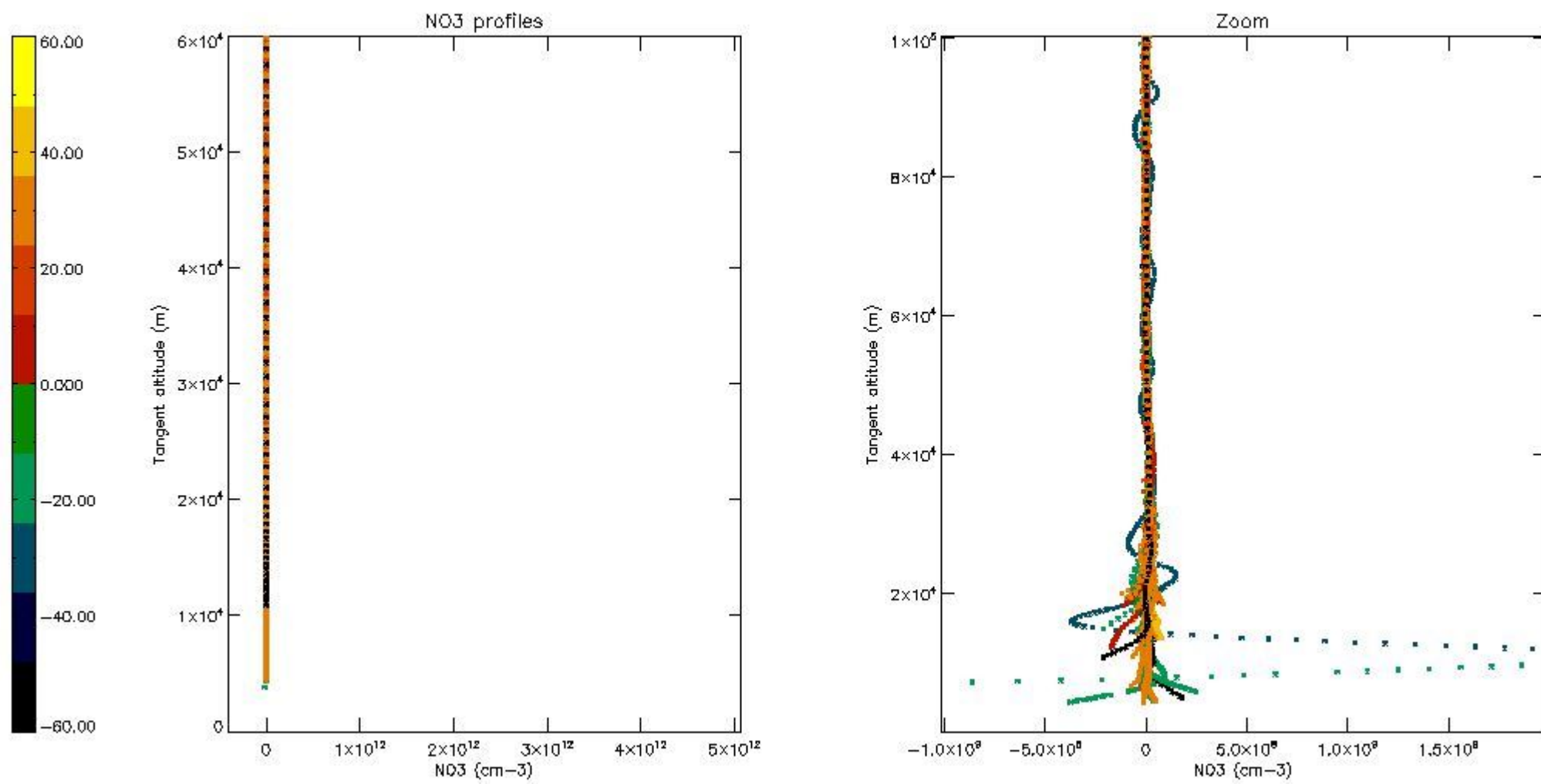
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



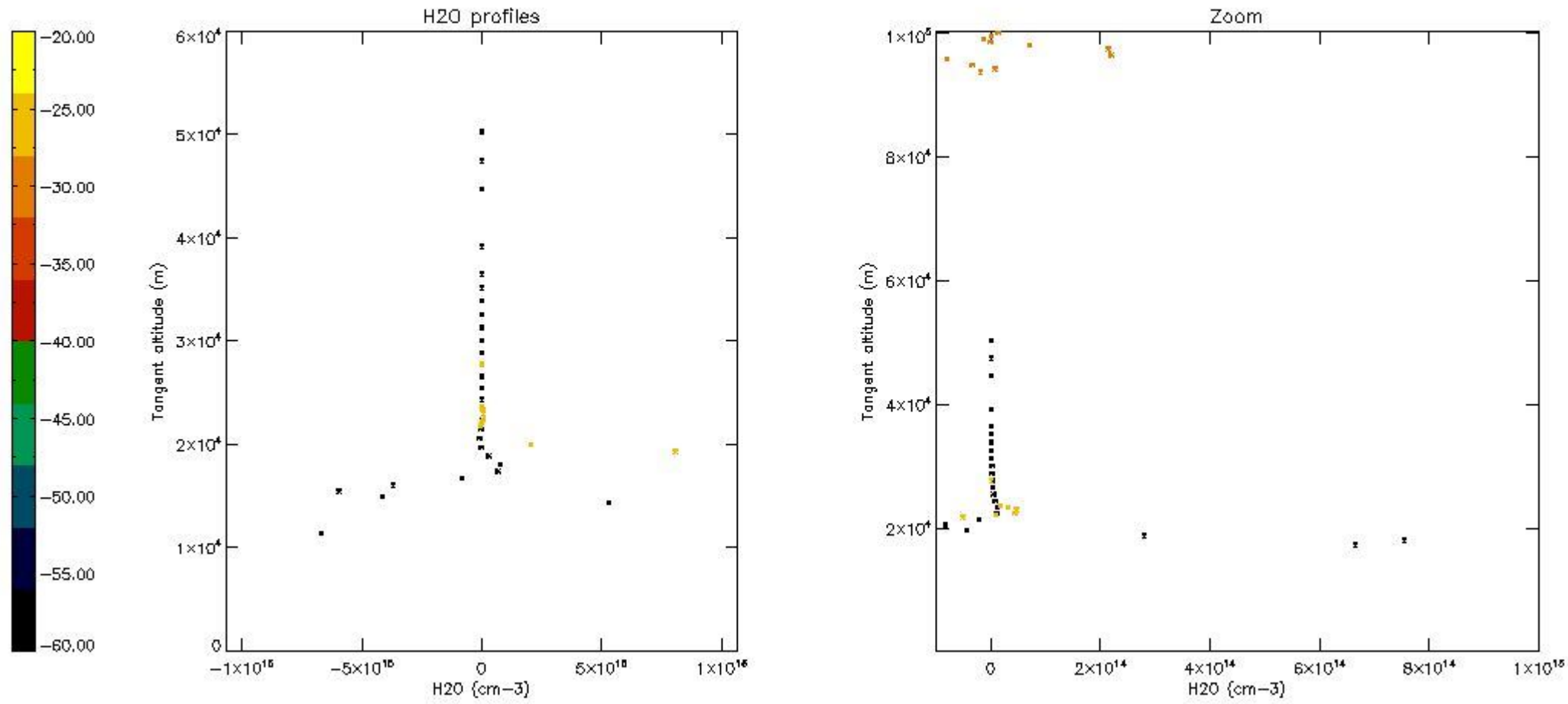
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

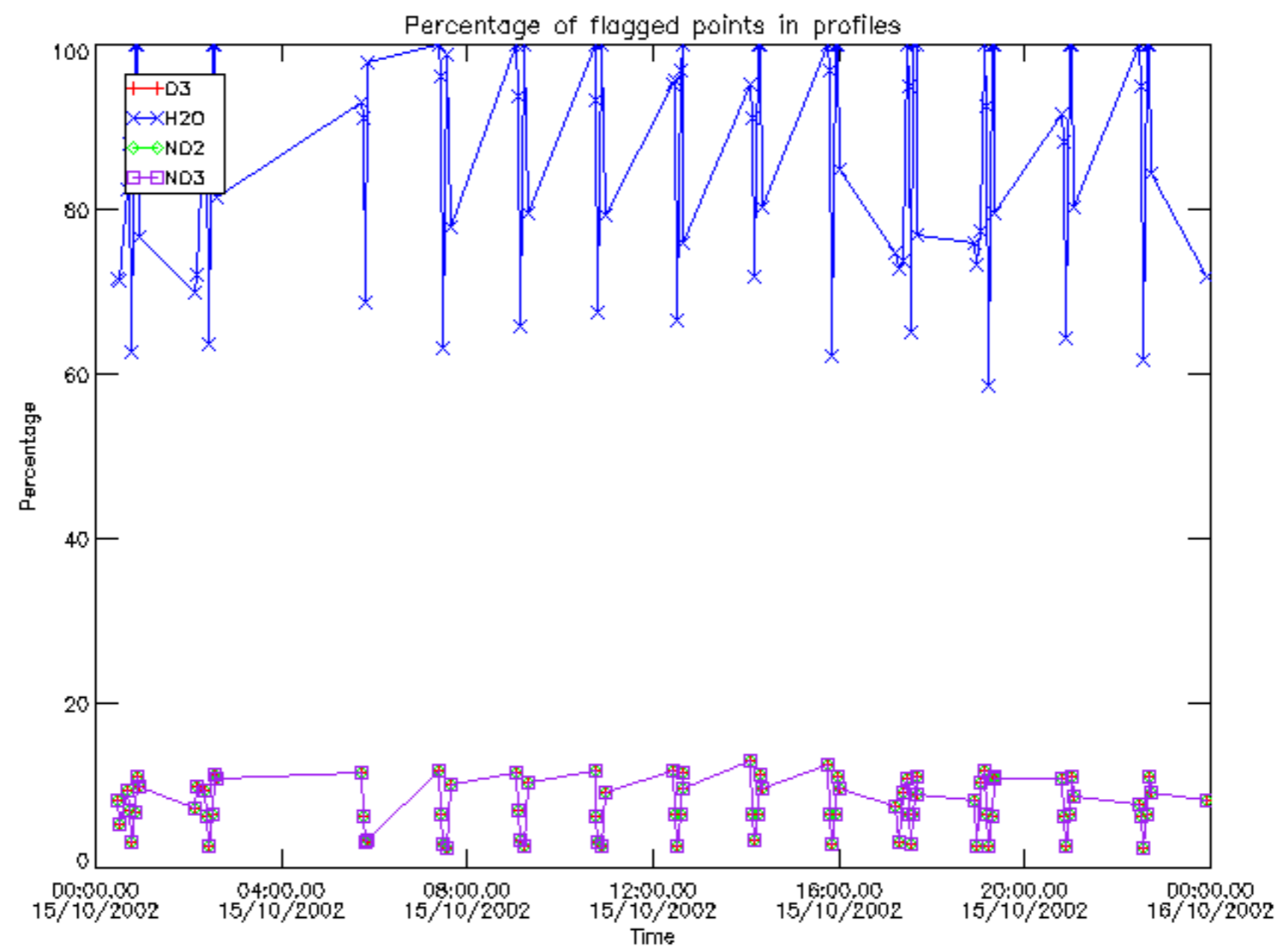
The colorbar represents the latitude.



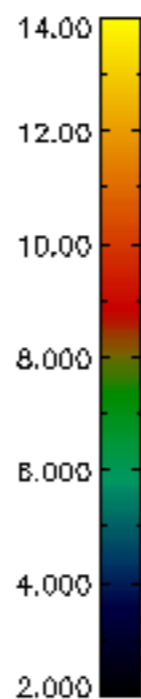
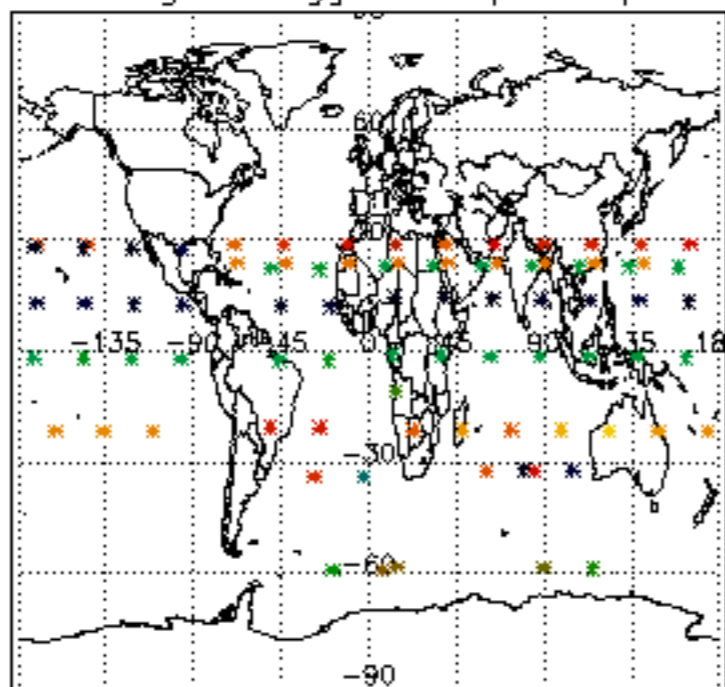
6. Auxiliary Data Files used for the production reported in section 2

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.

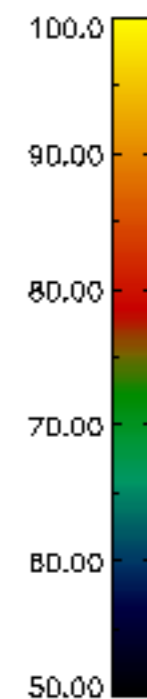
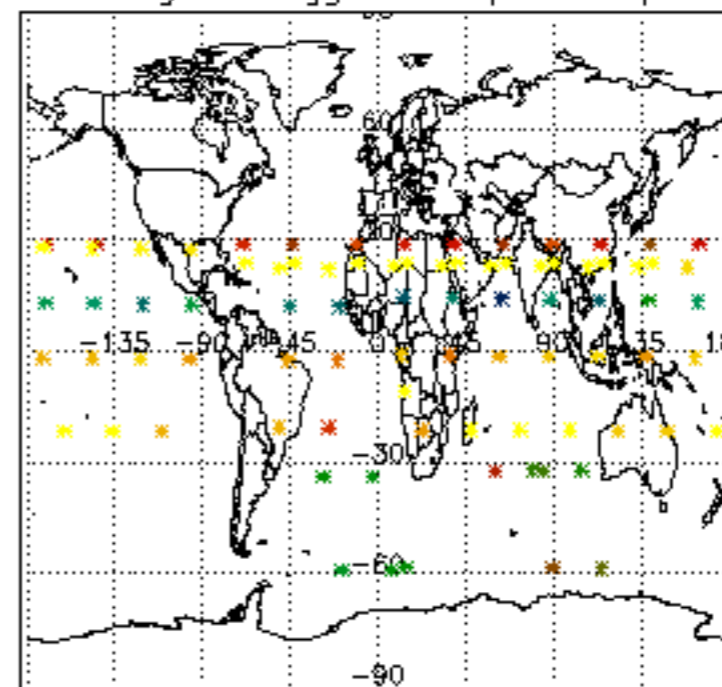
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	15-OCT-2002 00:05:07
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-OCT-2002 00:05:07
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-OCT-2002 00:05:07



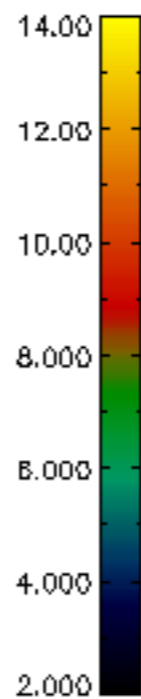
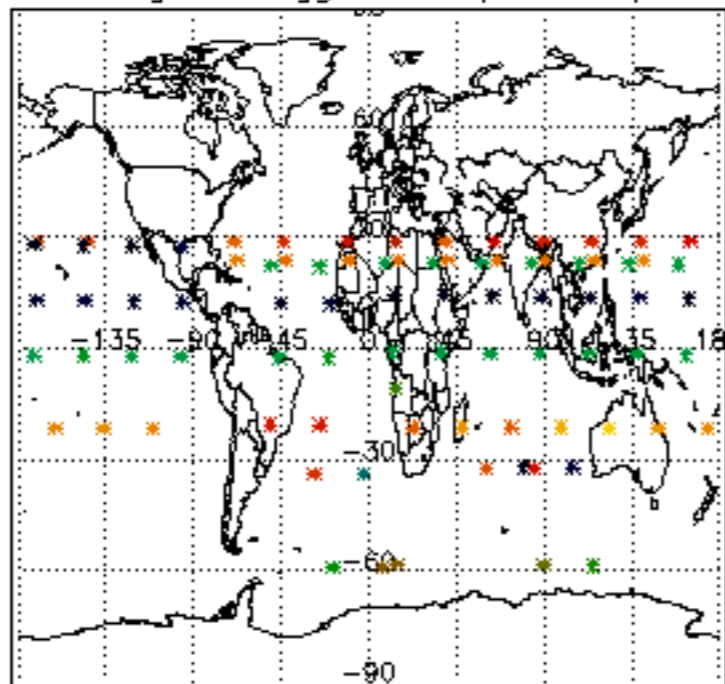
Percentage of flagged data per D3 profile



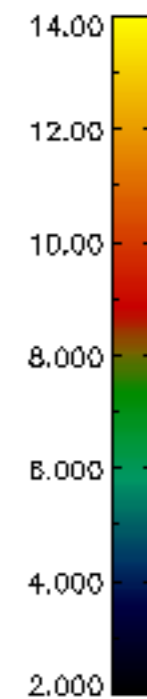
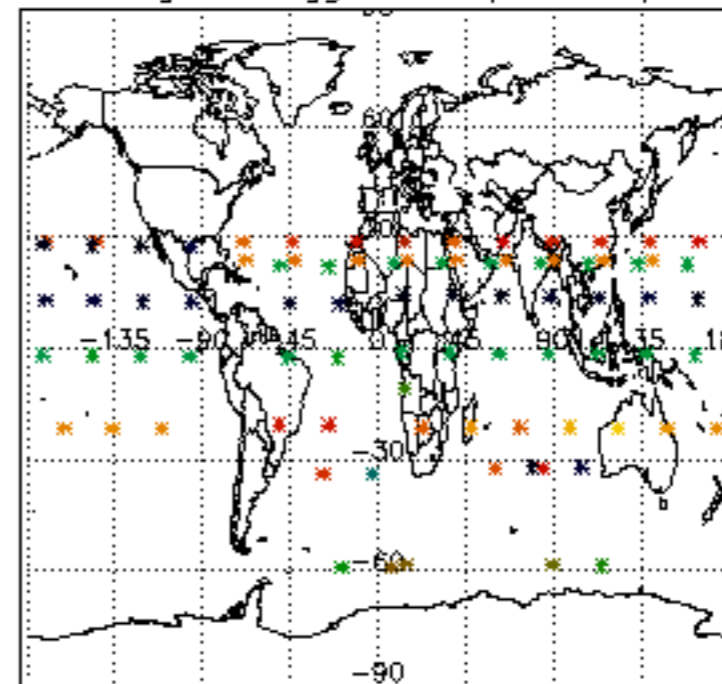
Percentage of flagged data per H2O profile

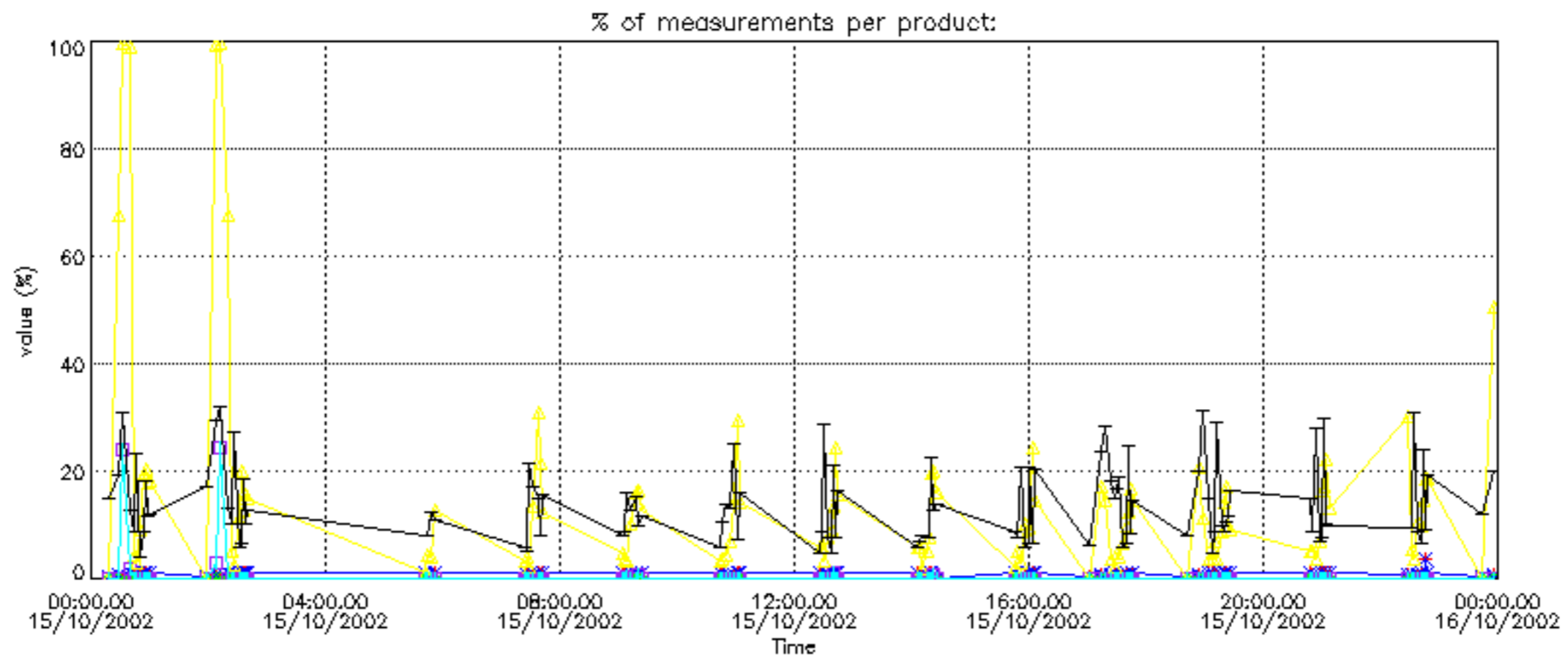


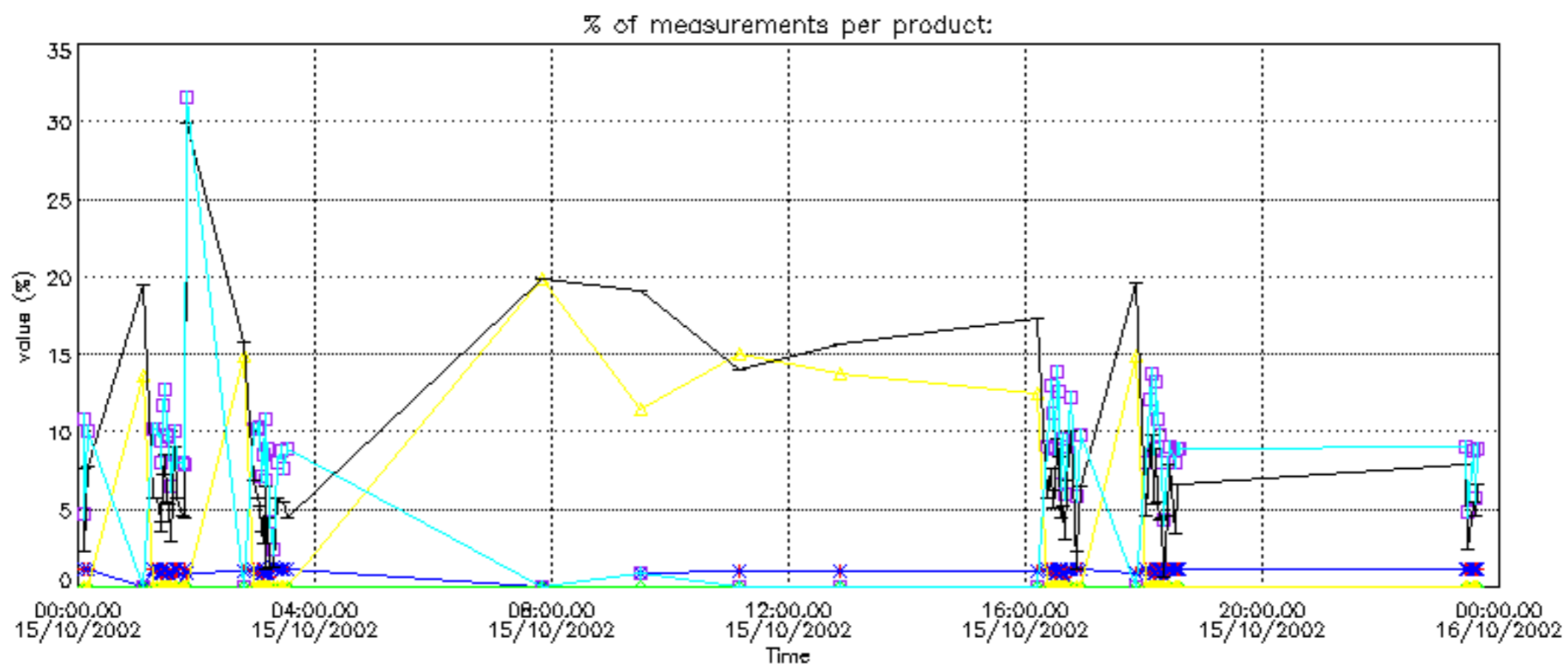
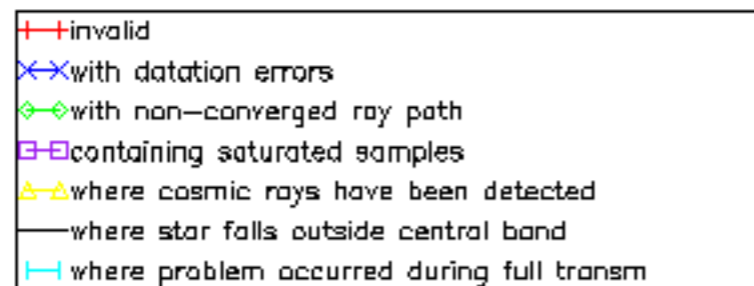
Percentage of flagged data per NO2 profile



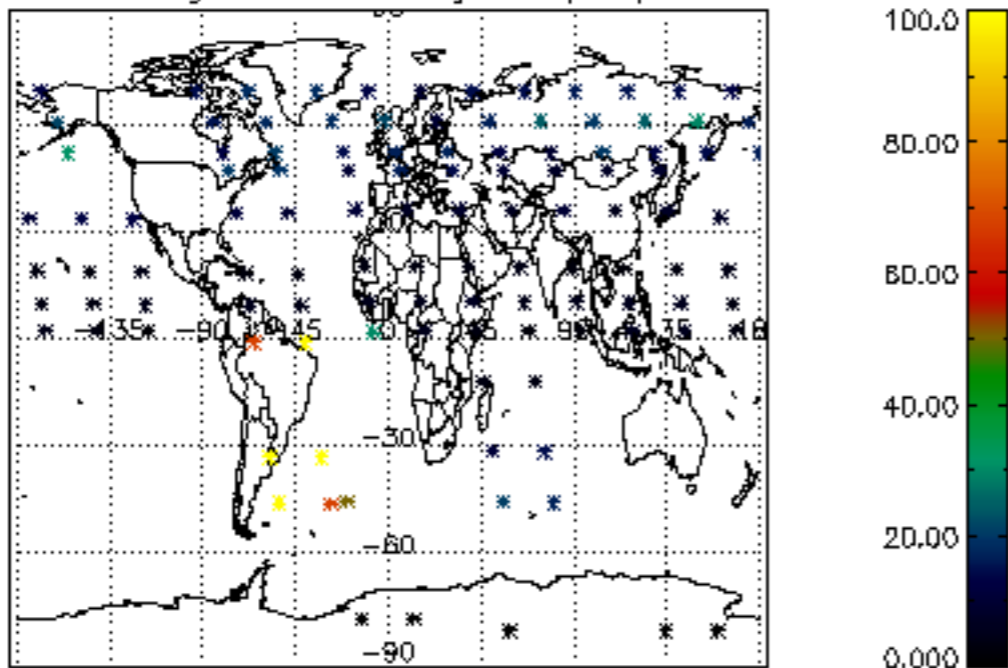
Percentage of flagged data per NO3 profile



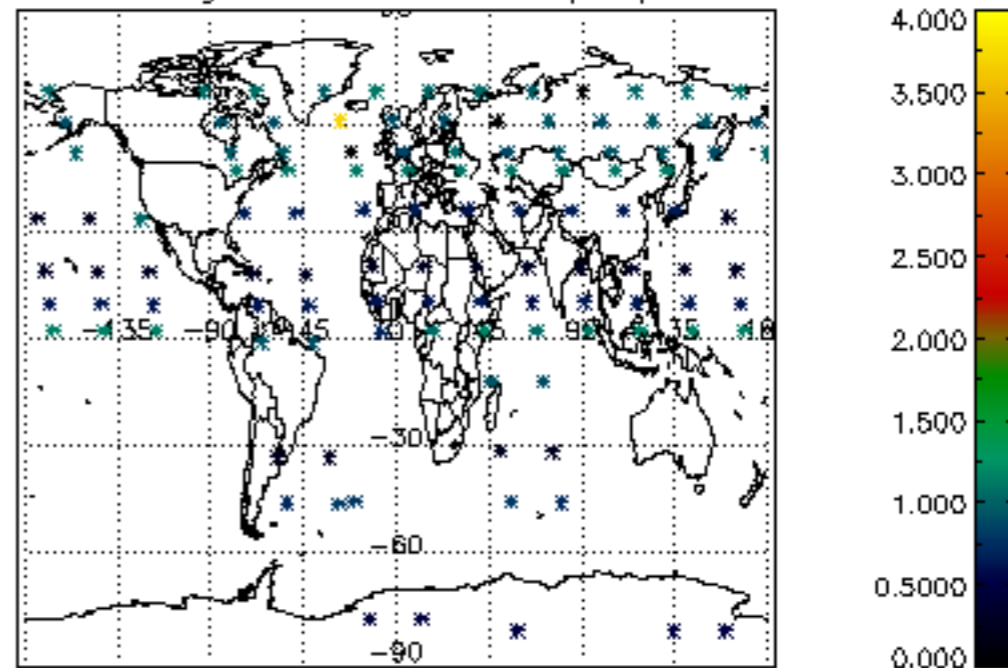




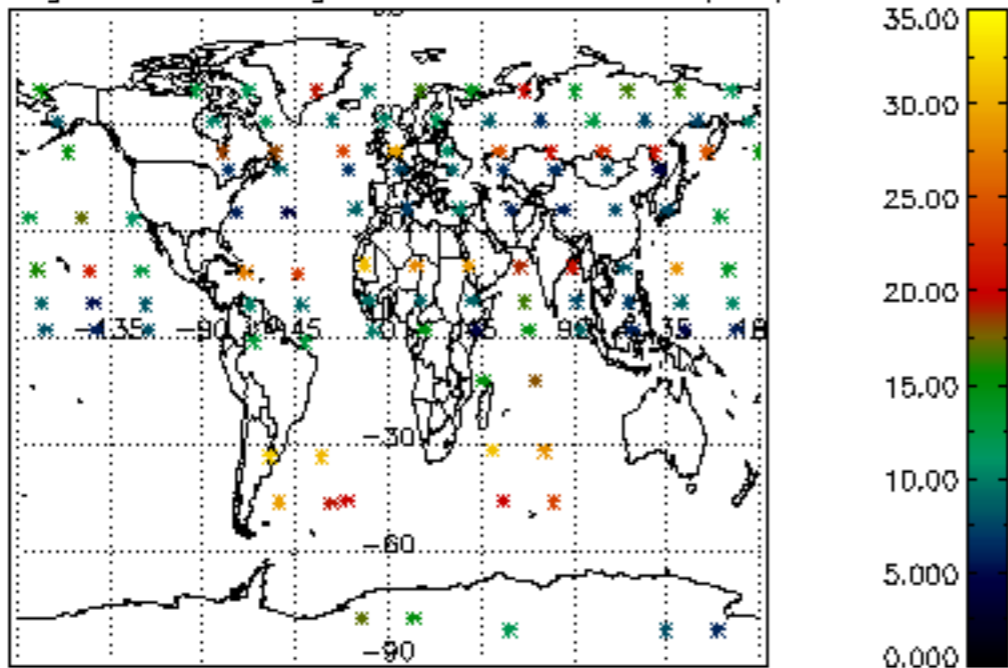
Percentage of cosmic ray hits per profile



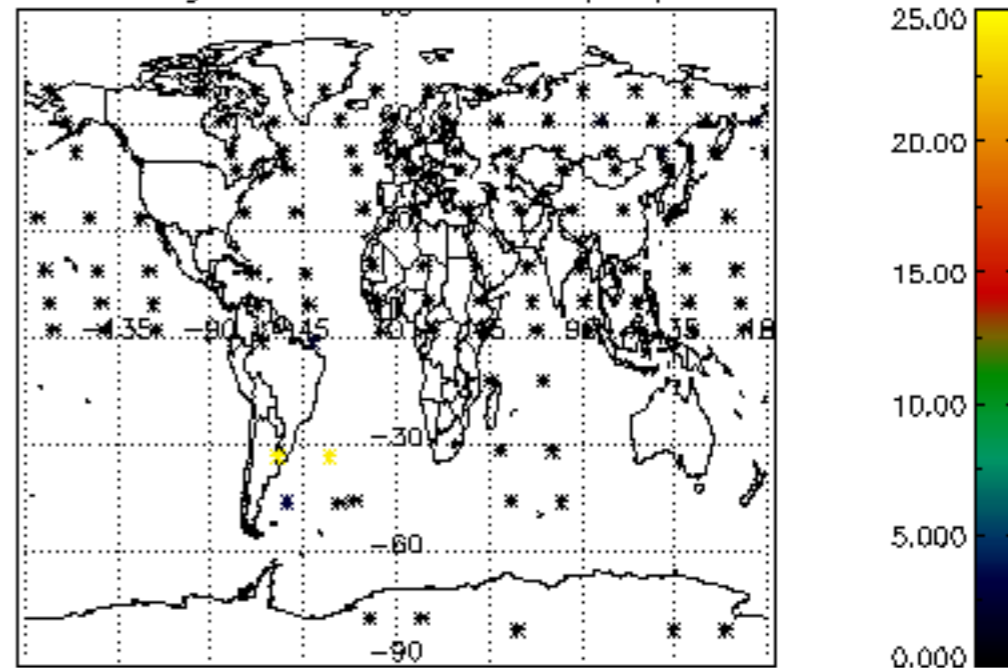
Percentage of datation errors per profile



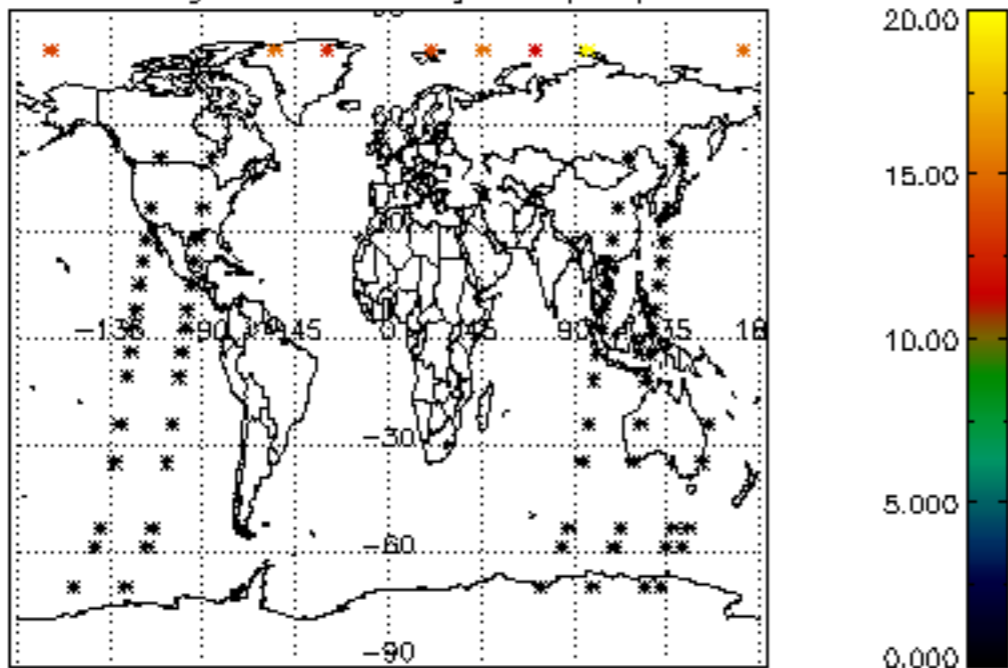
Percentage of star falling outside central band per profile



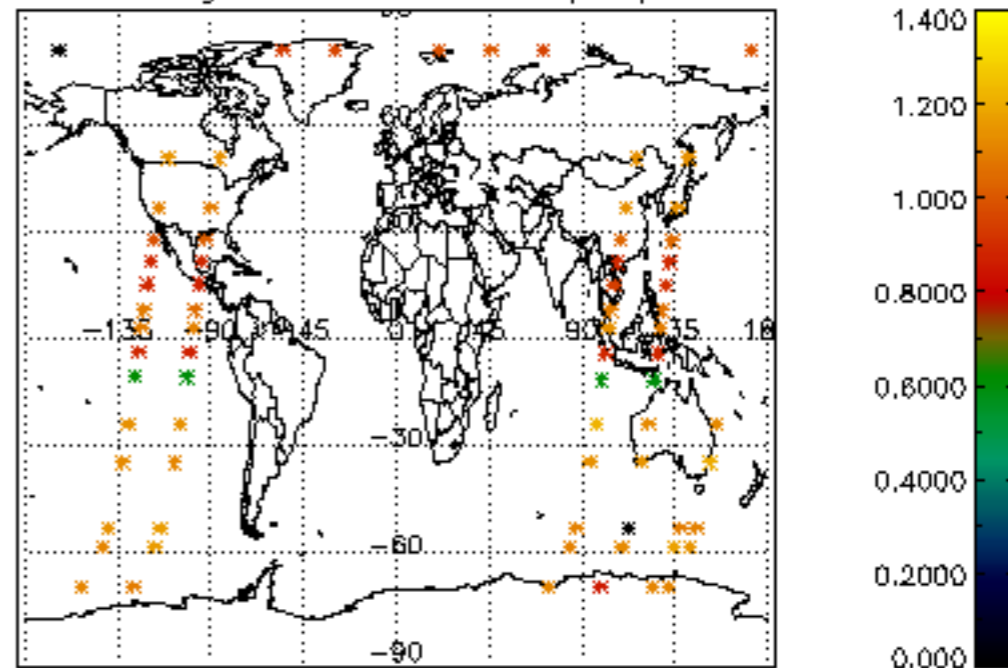
Percentage of saturation errors per profile



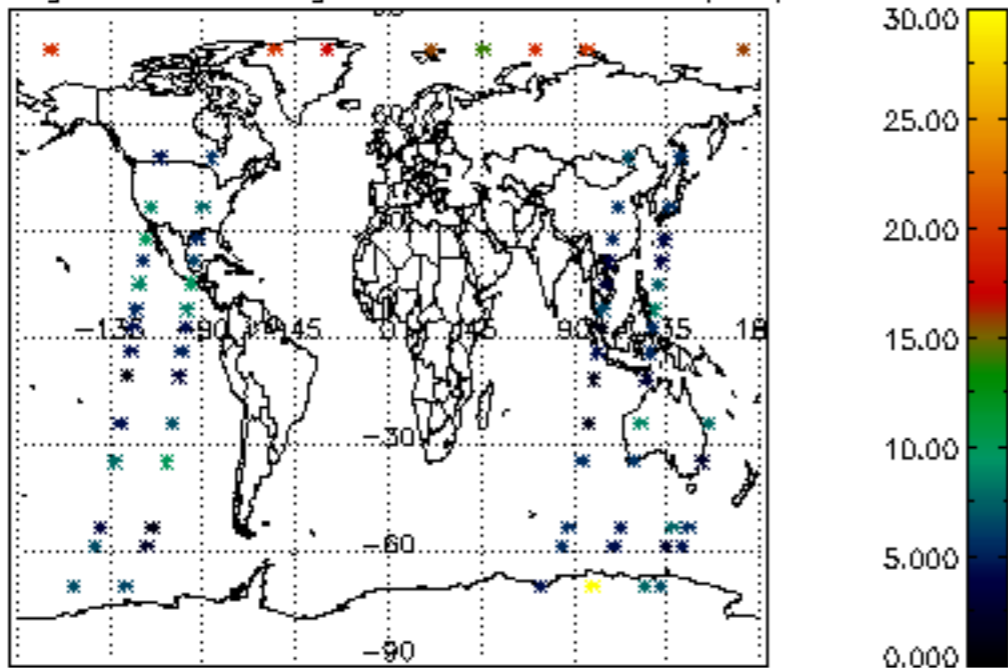
Percentage of cosmic ray hits per profile



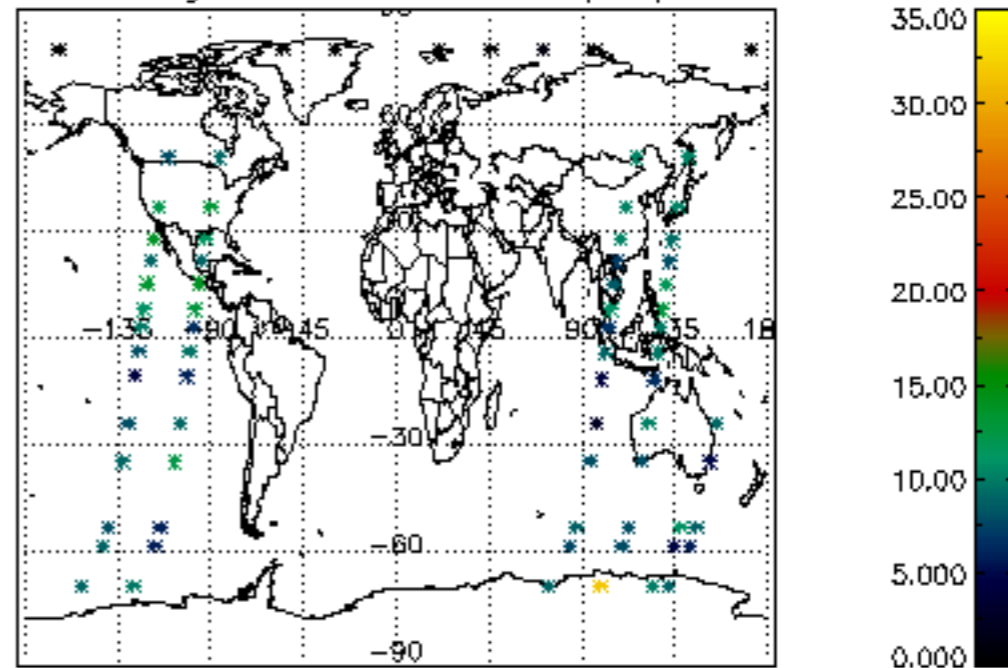
Percentage of datation errors per profile

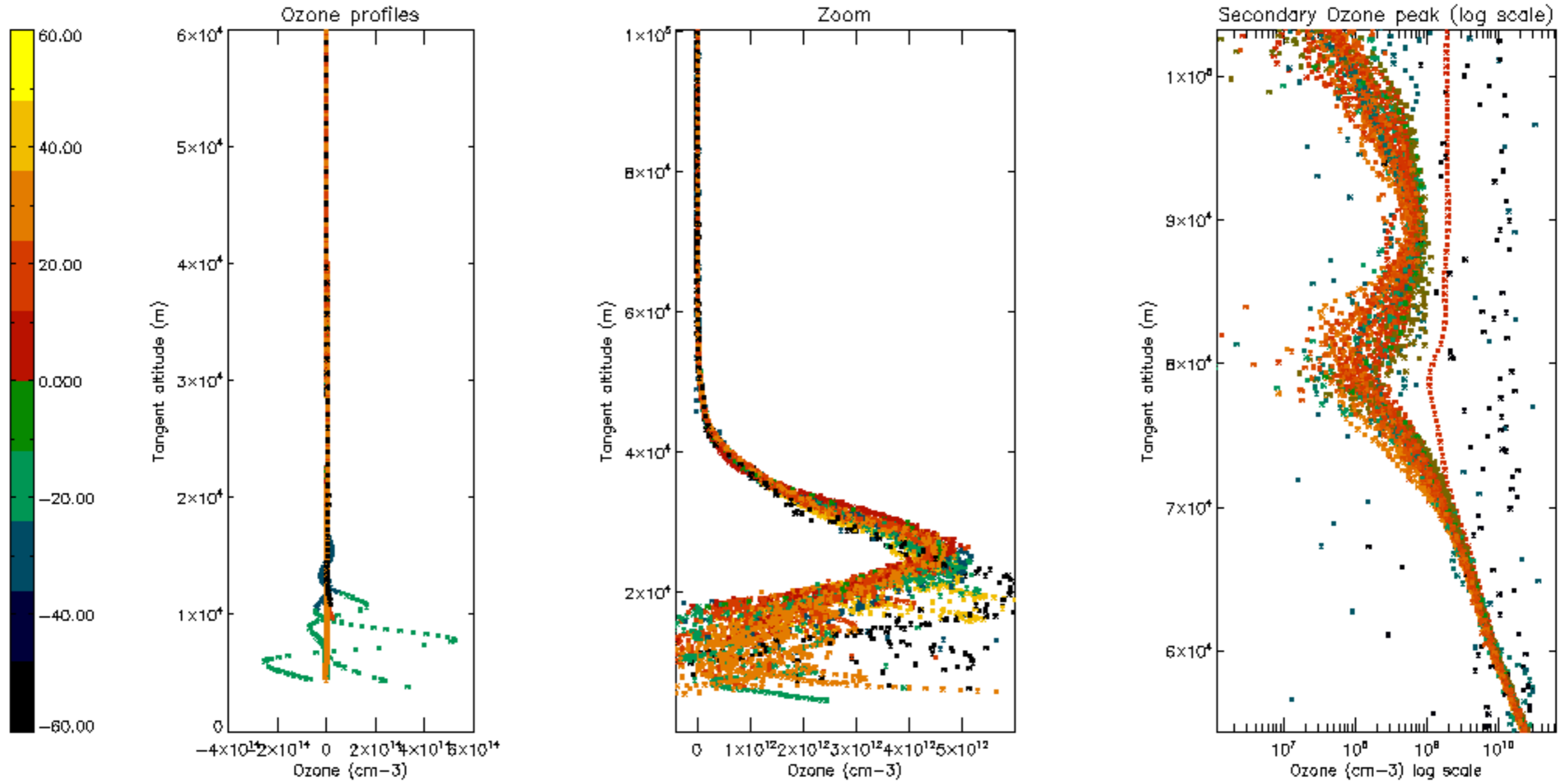


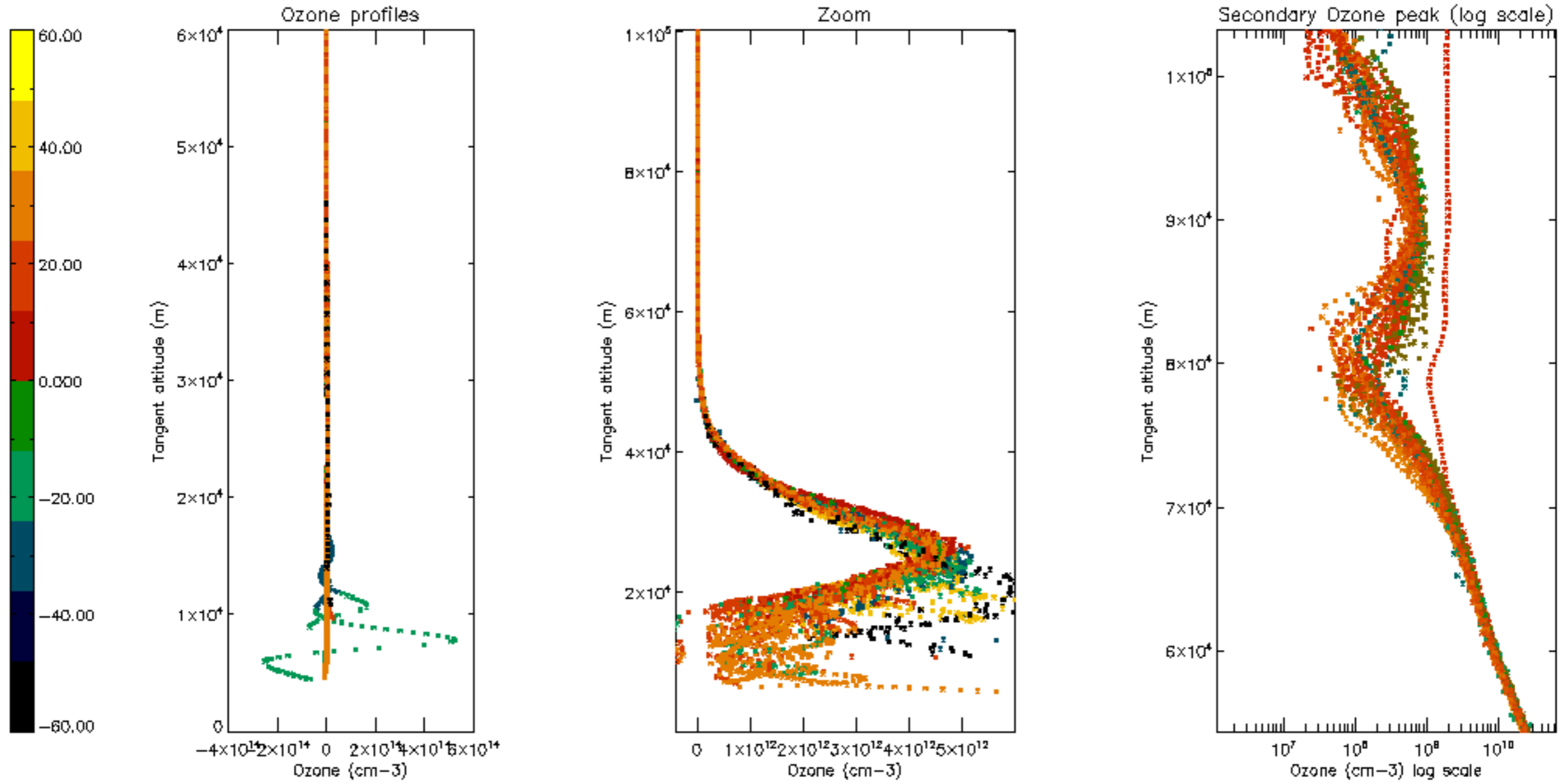
Percentage of star falling outside central band per profile

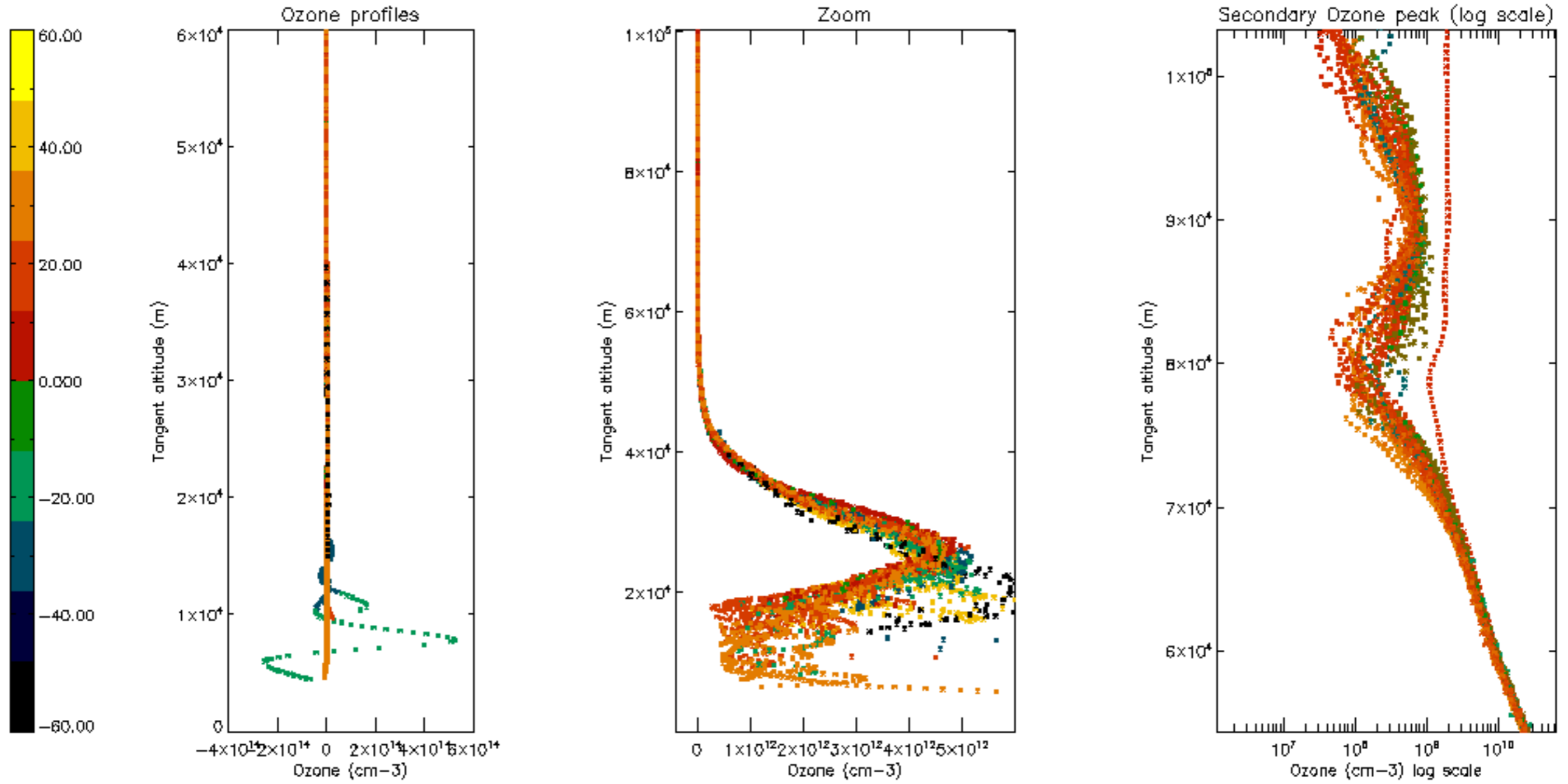


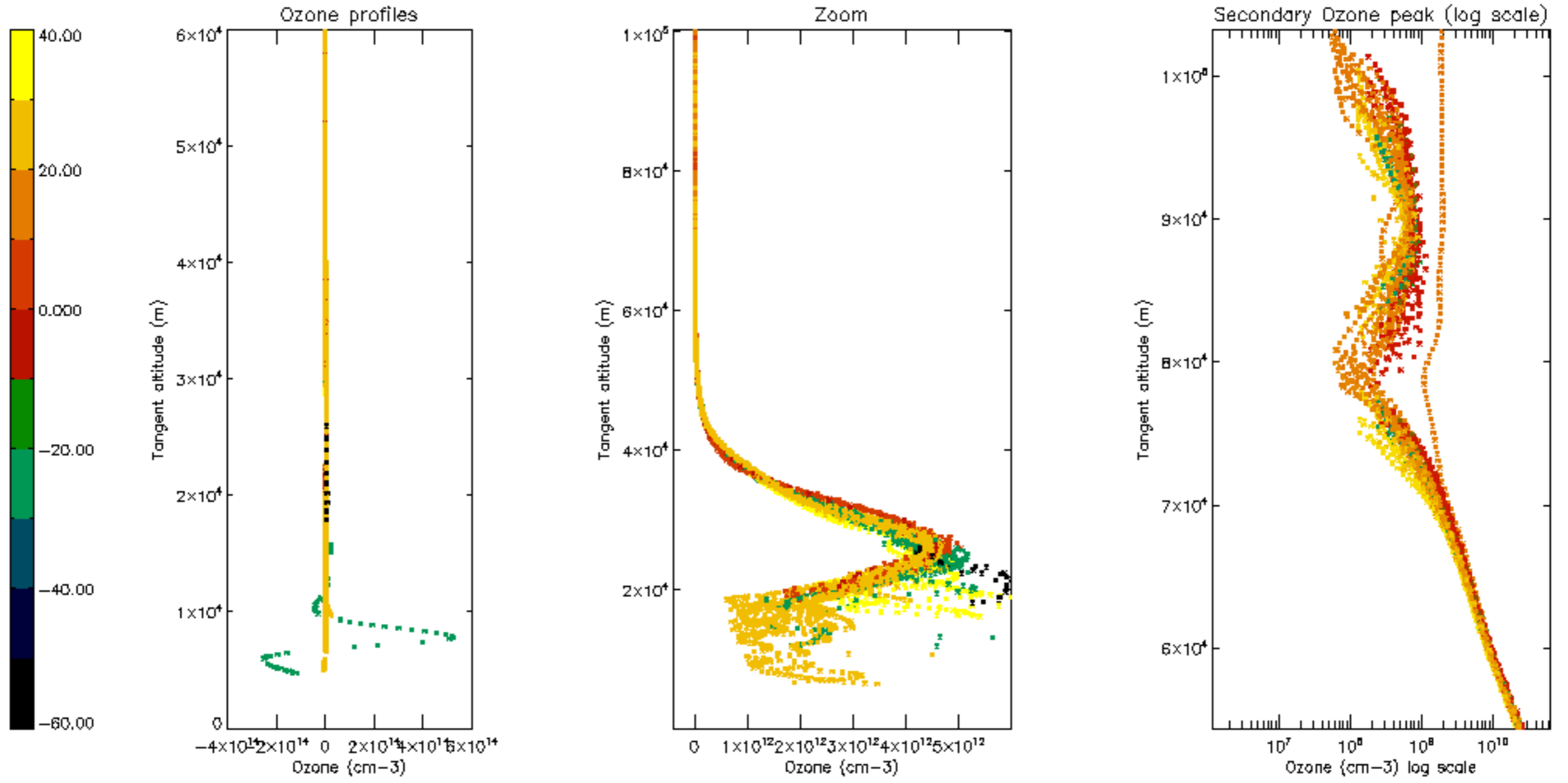
Percentage of saturation errors per profile

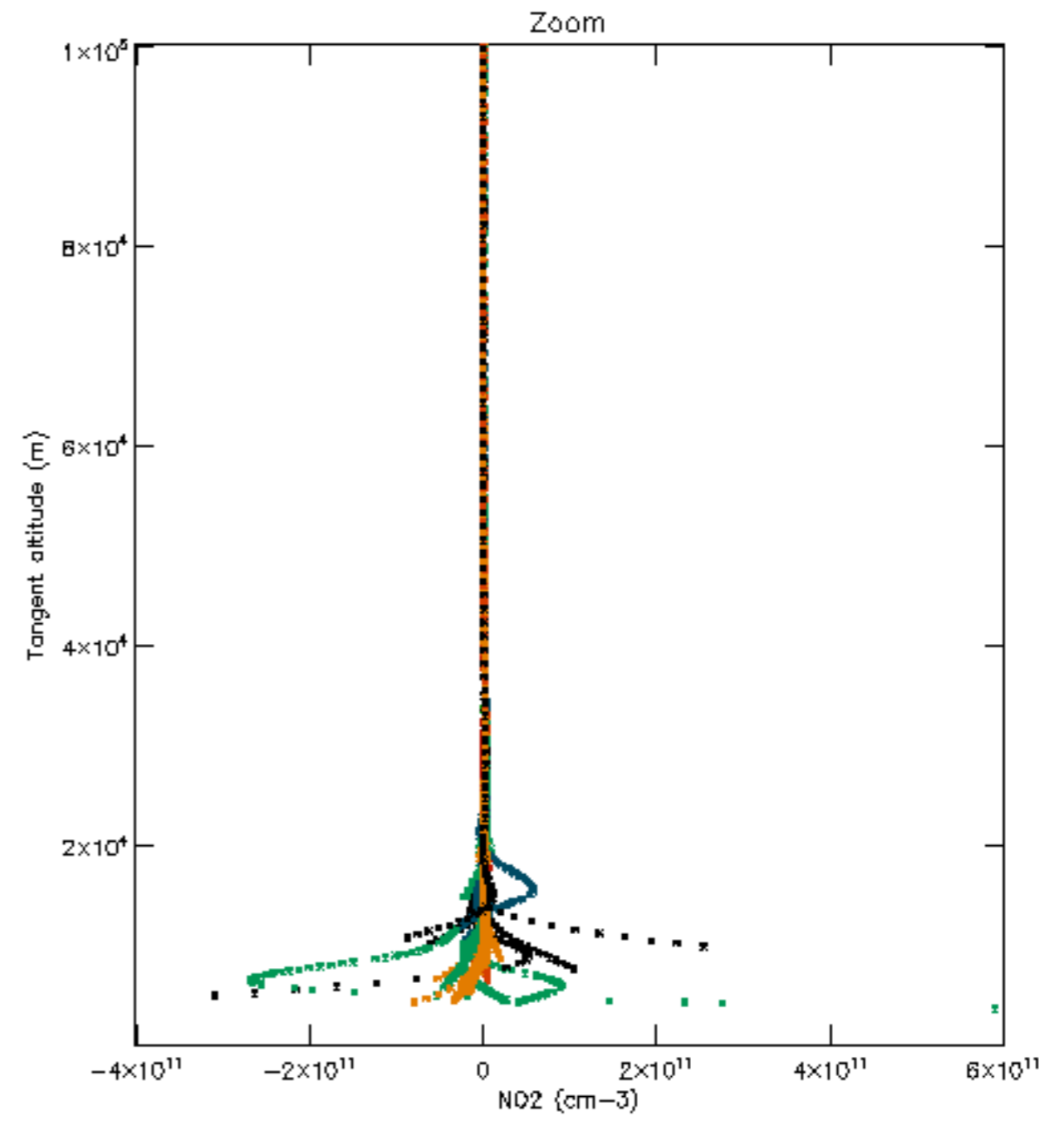
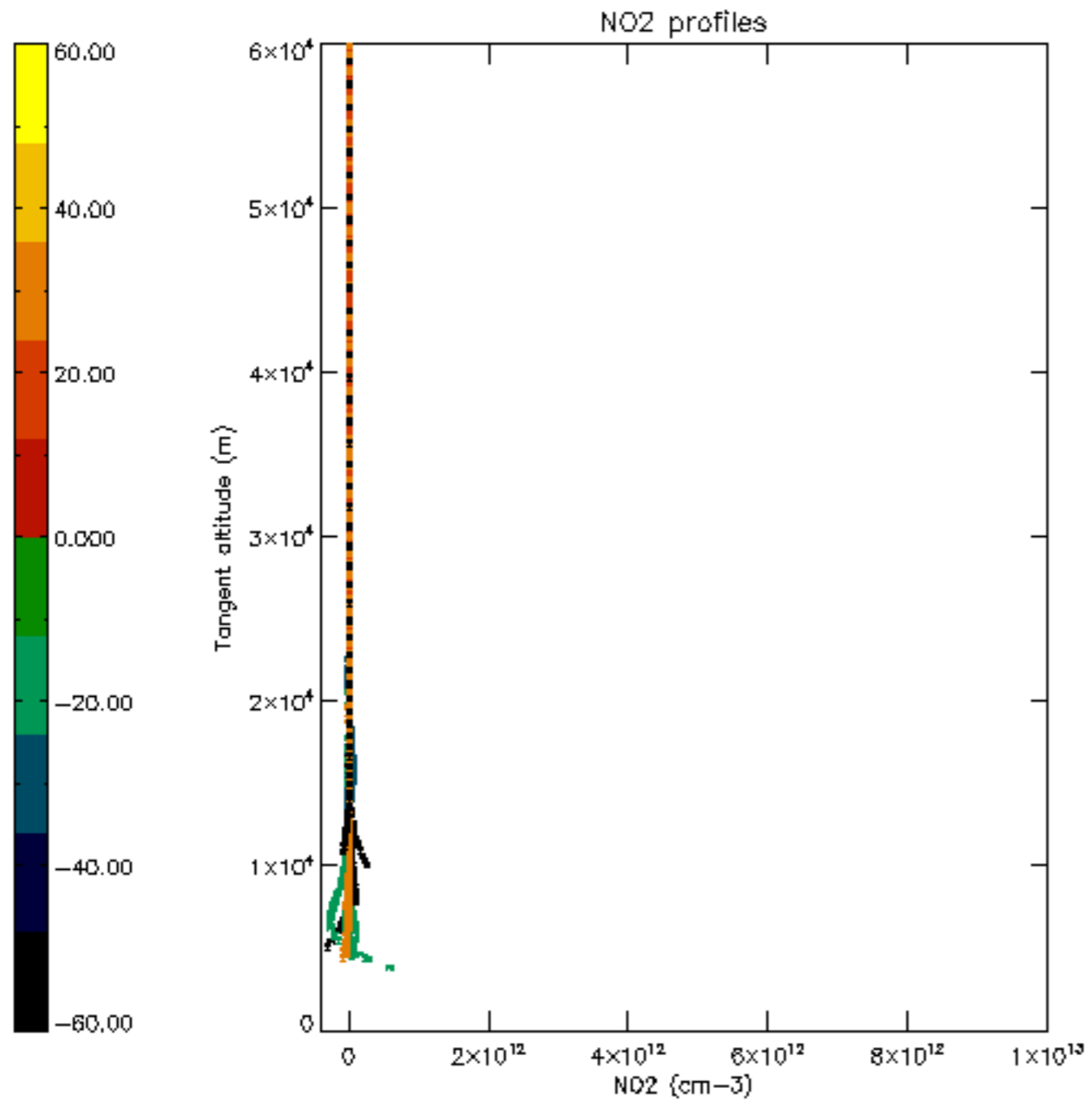


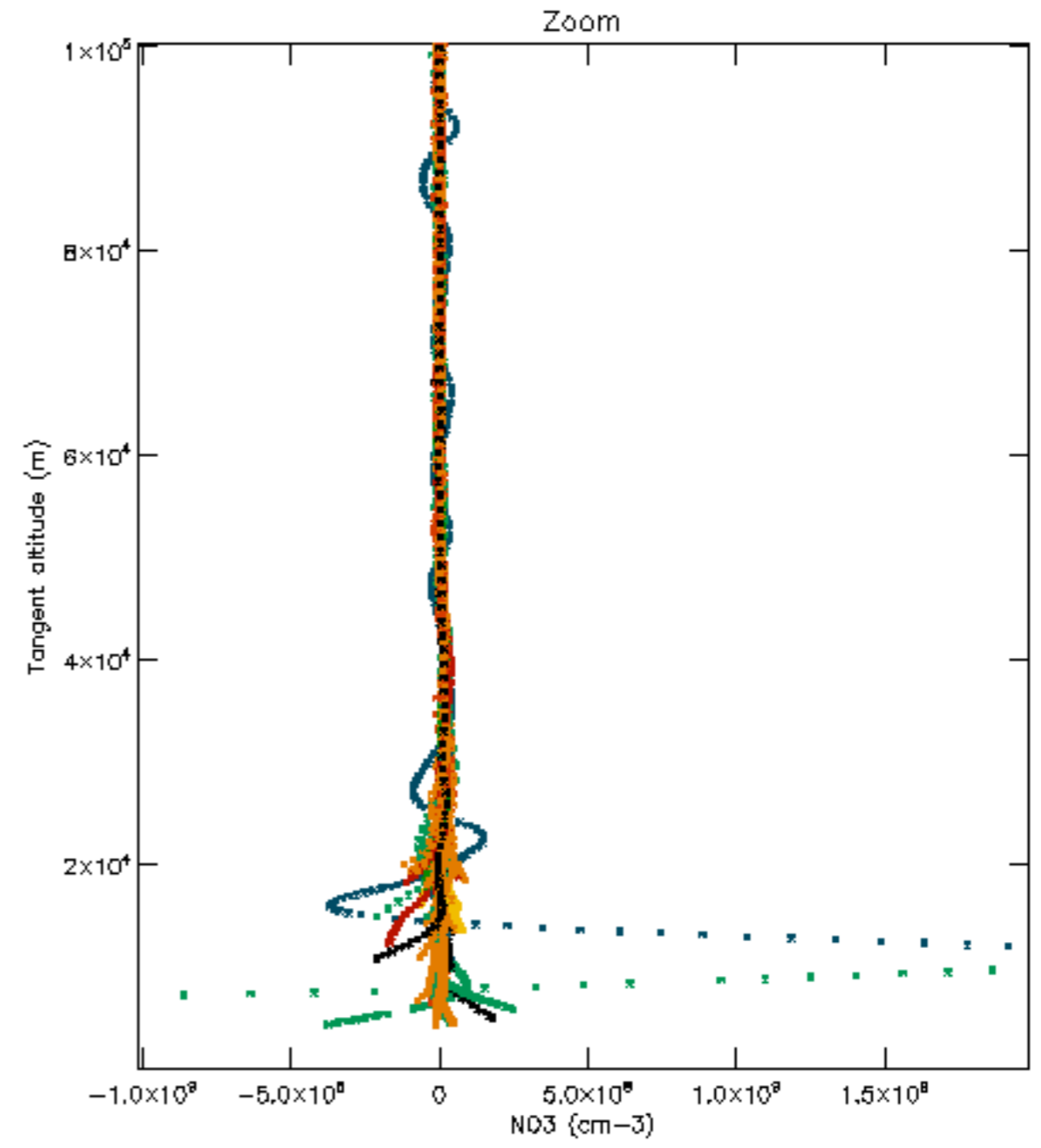
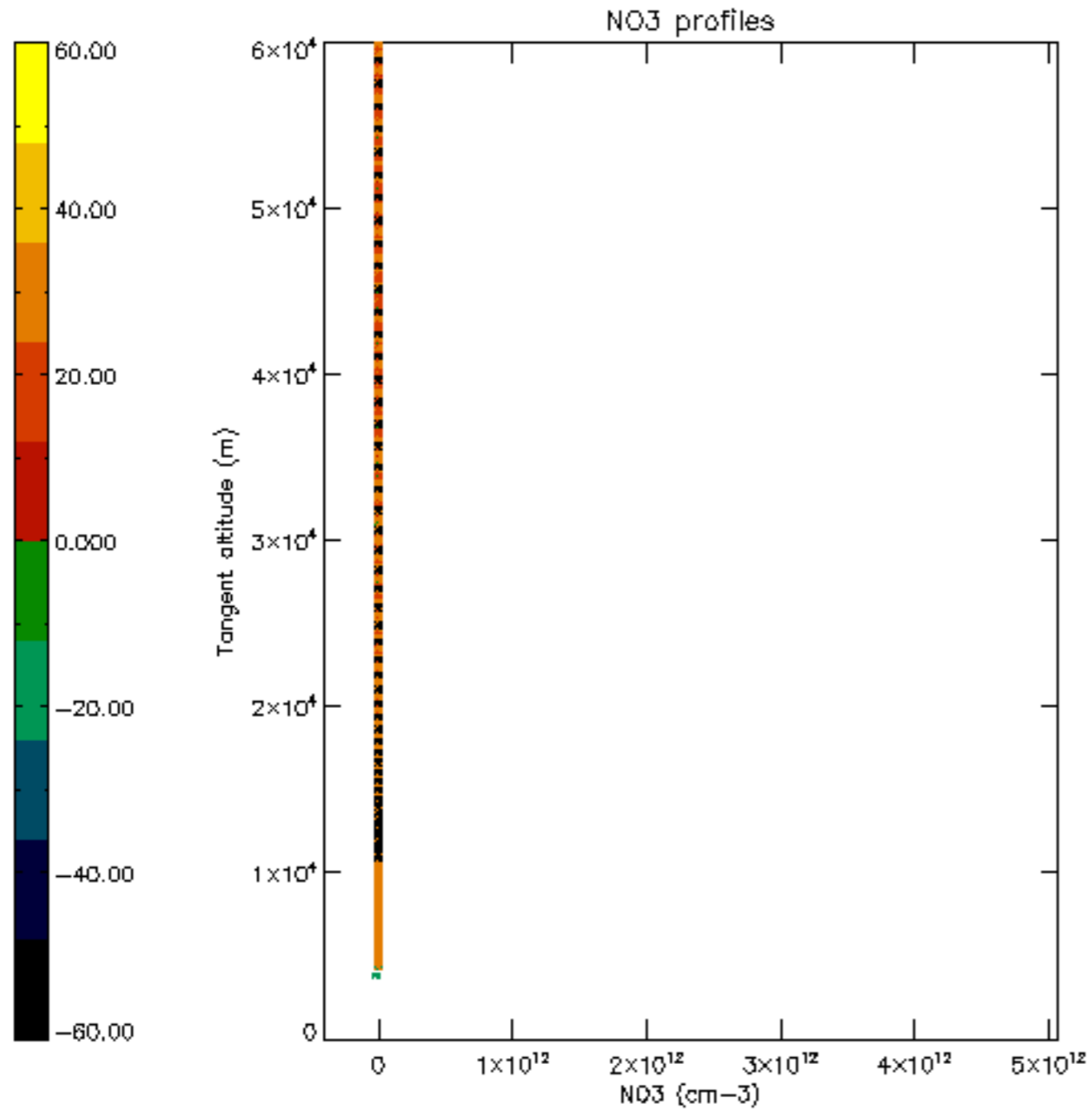


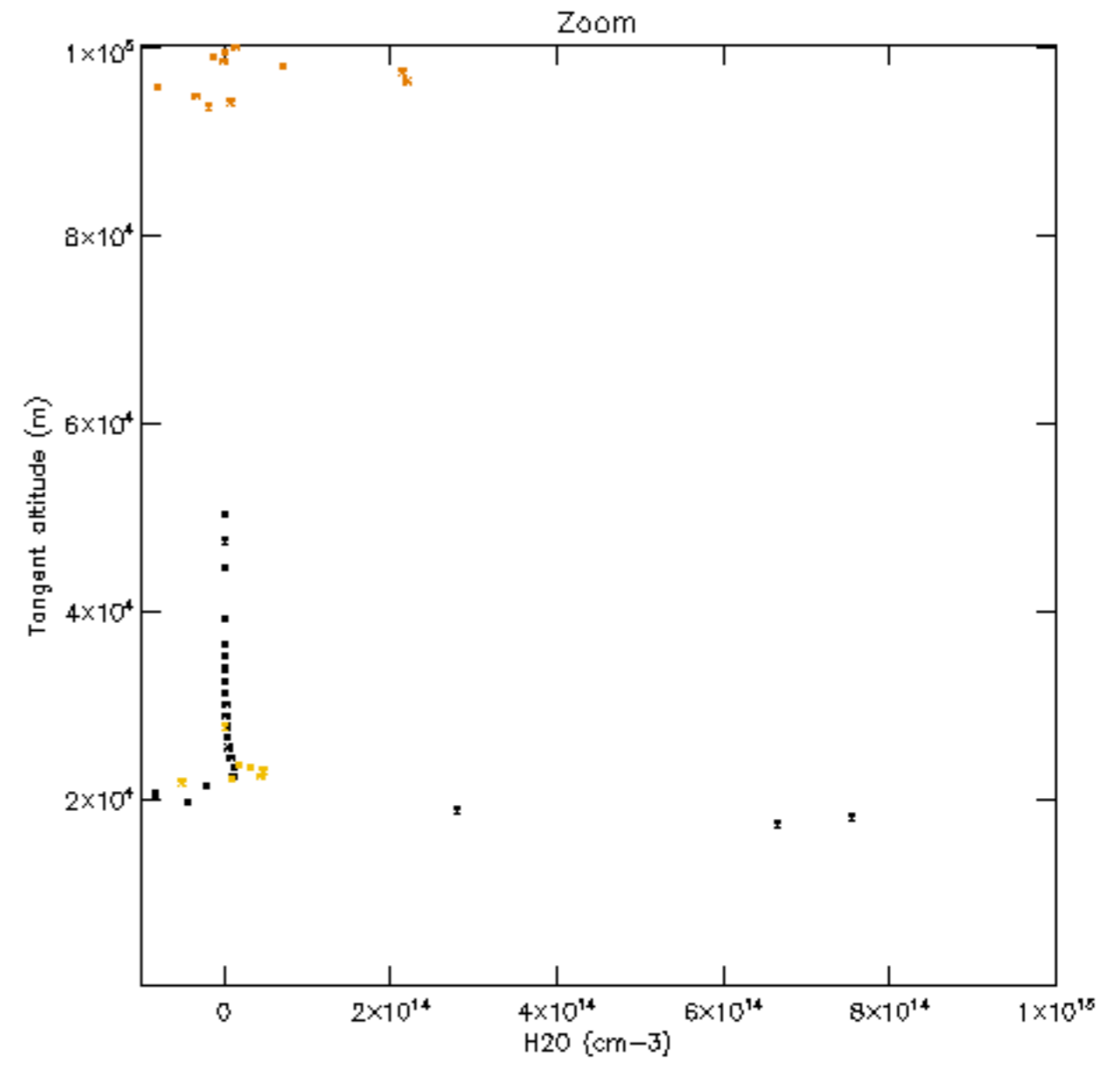
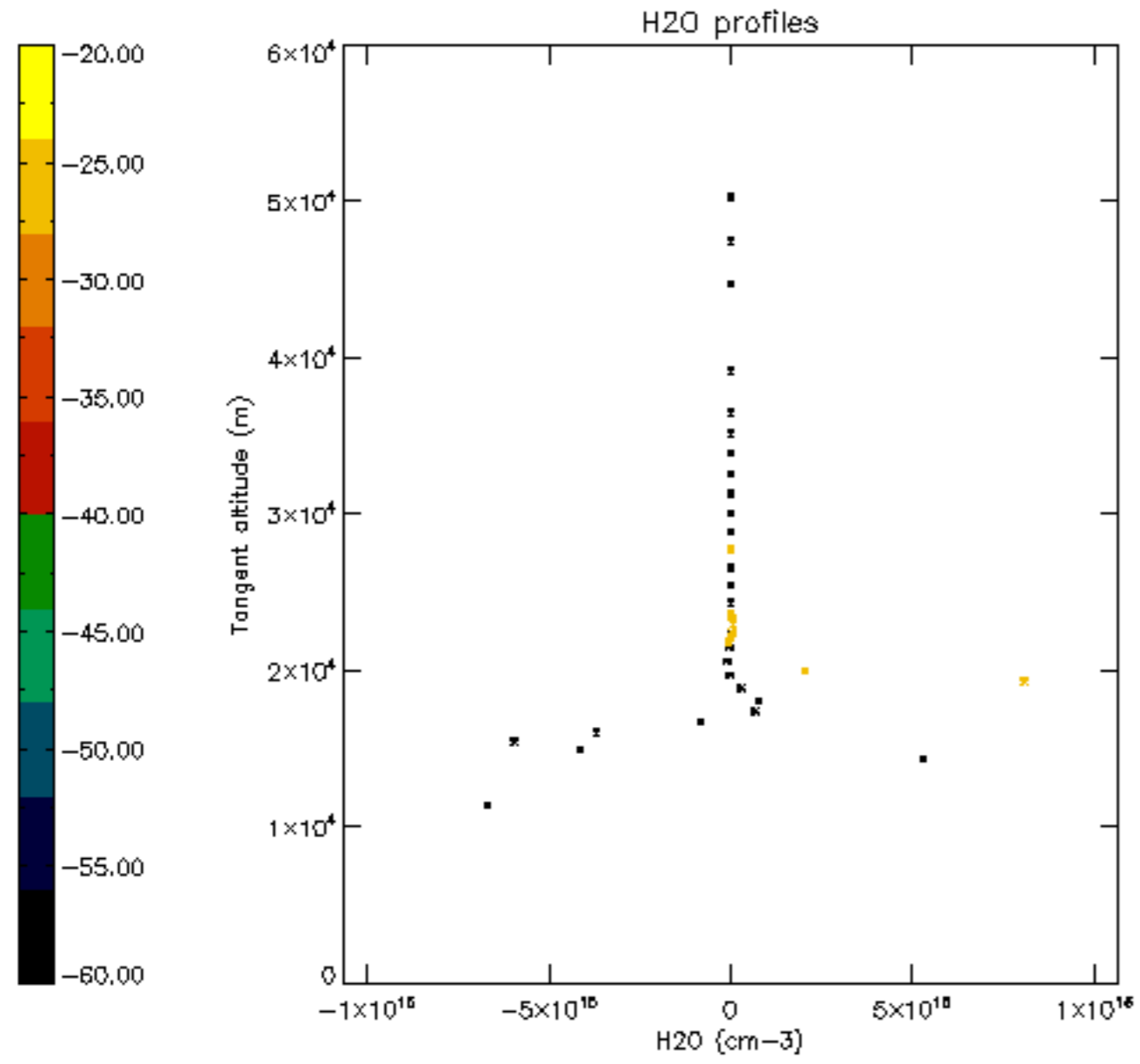


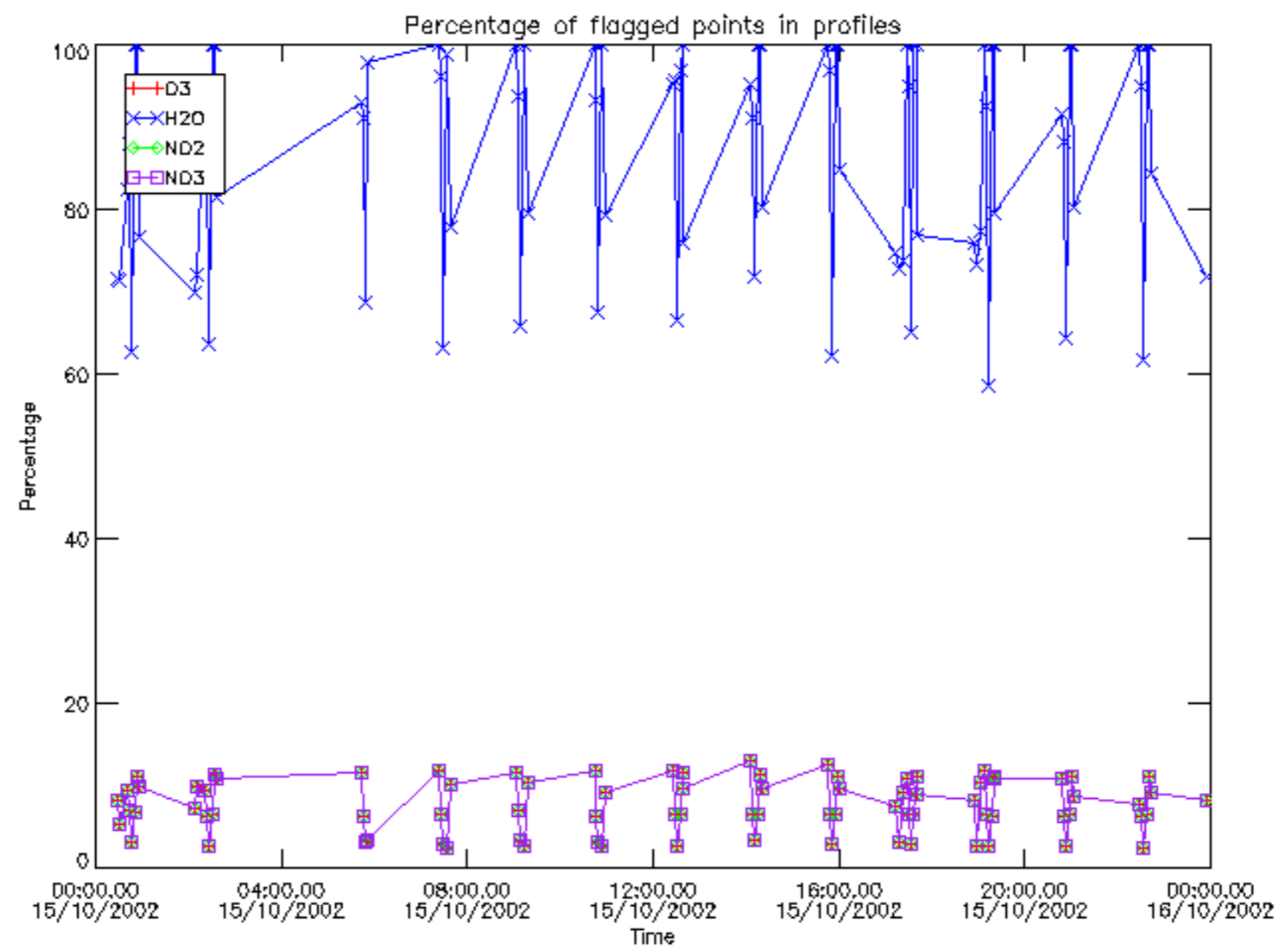




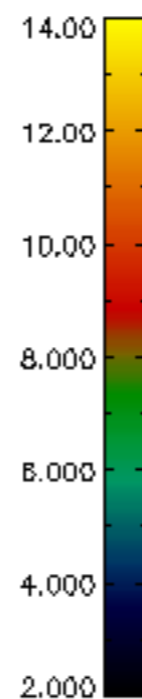
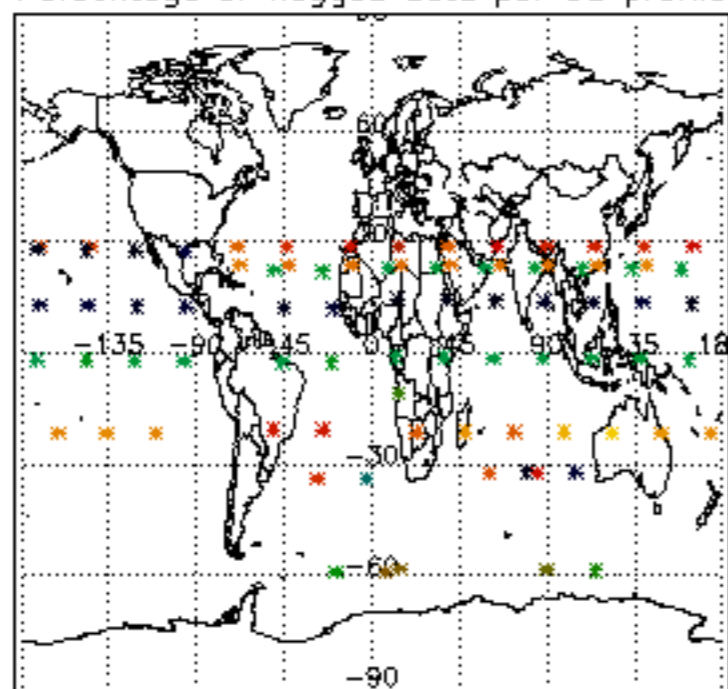




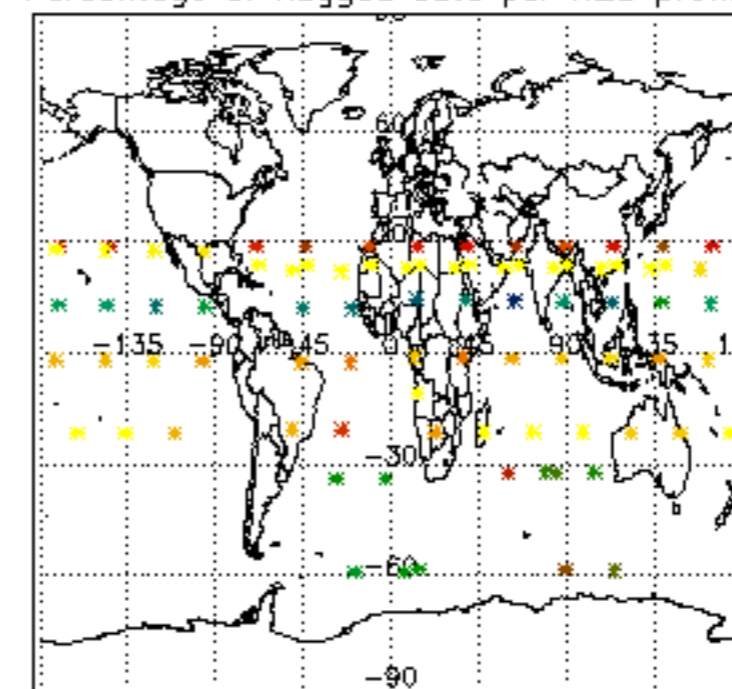




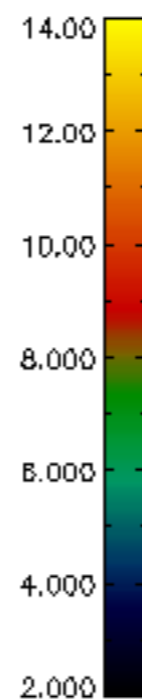
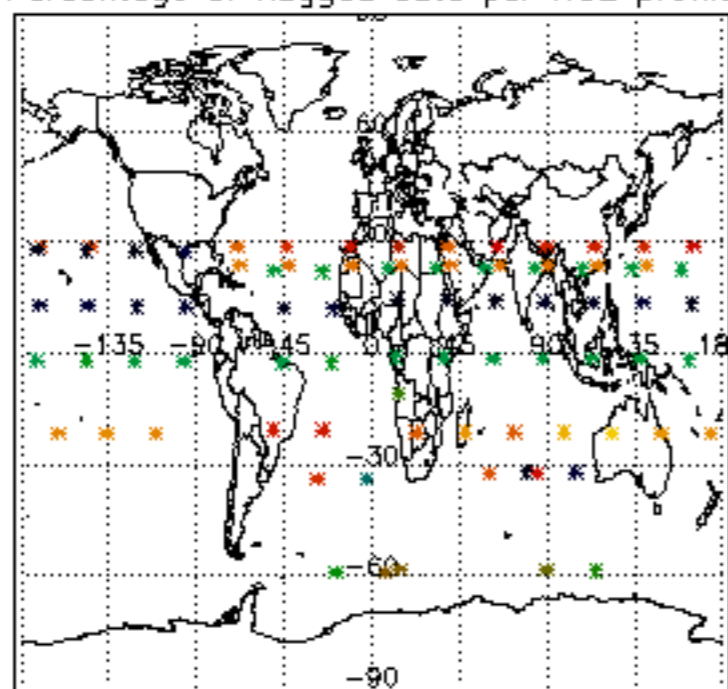
Percentage of flagged data per D3 profile



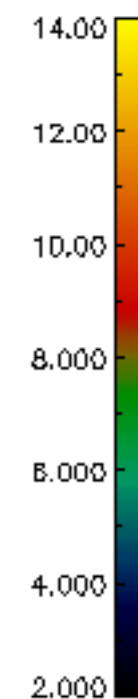
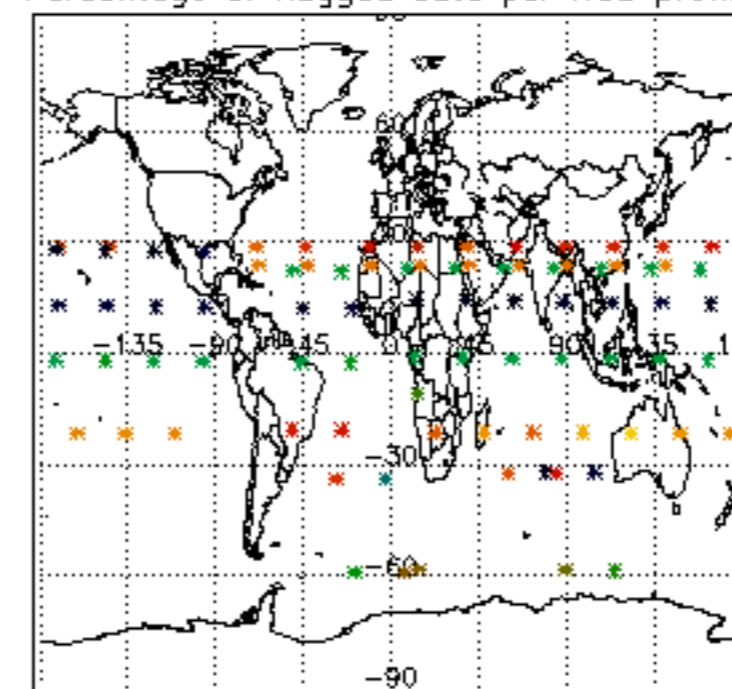
Percentage of flagged data per H2O profile

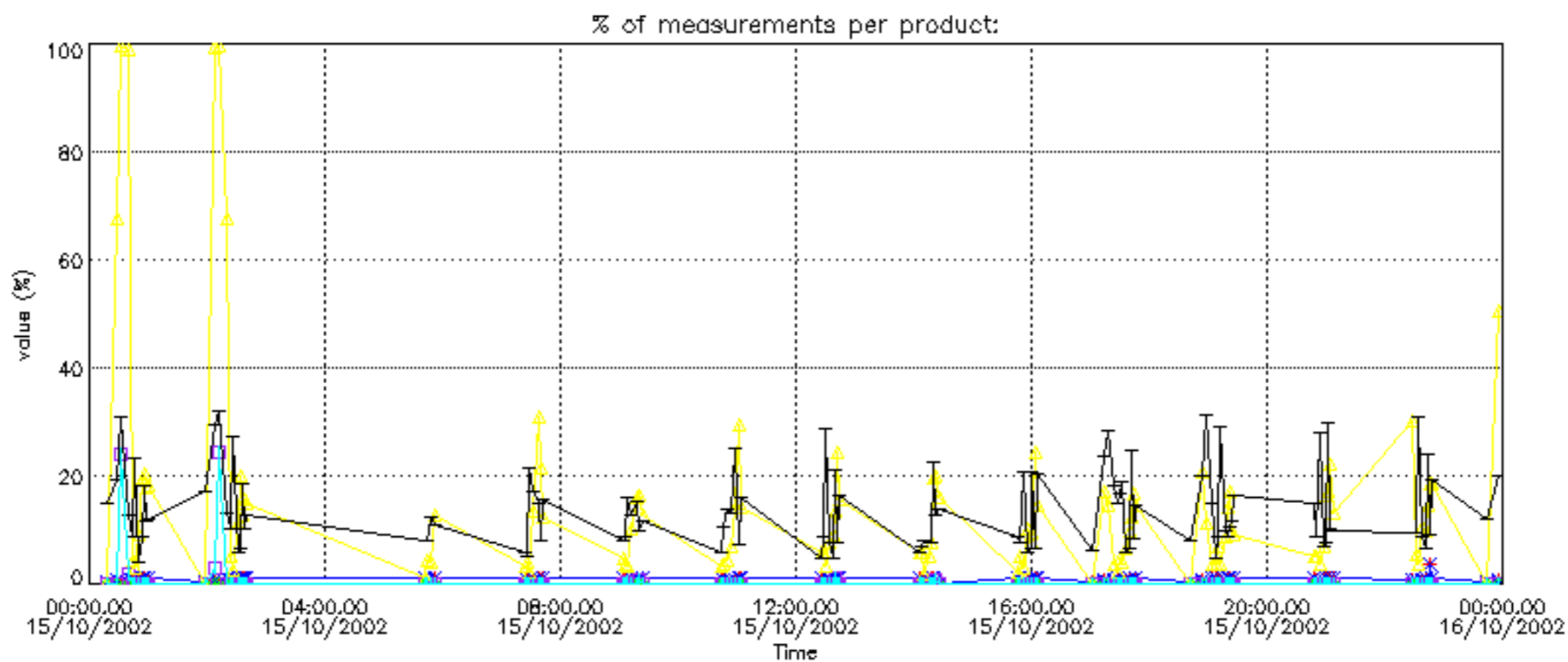


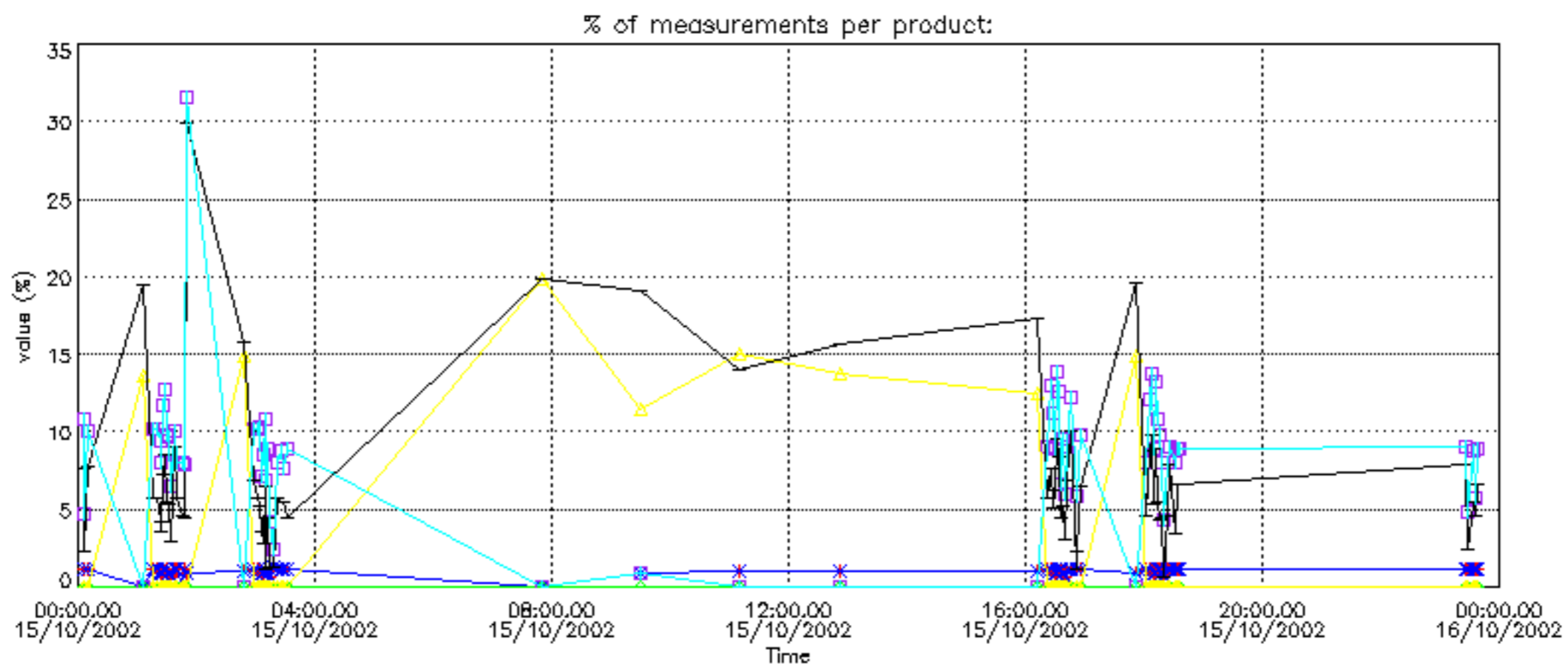
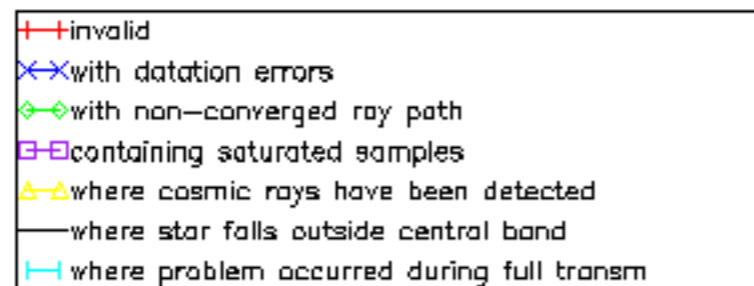
Percentage of flagged data per NO2 profile



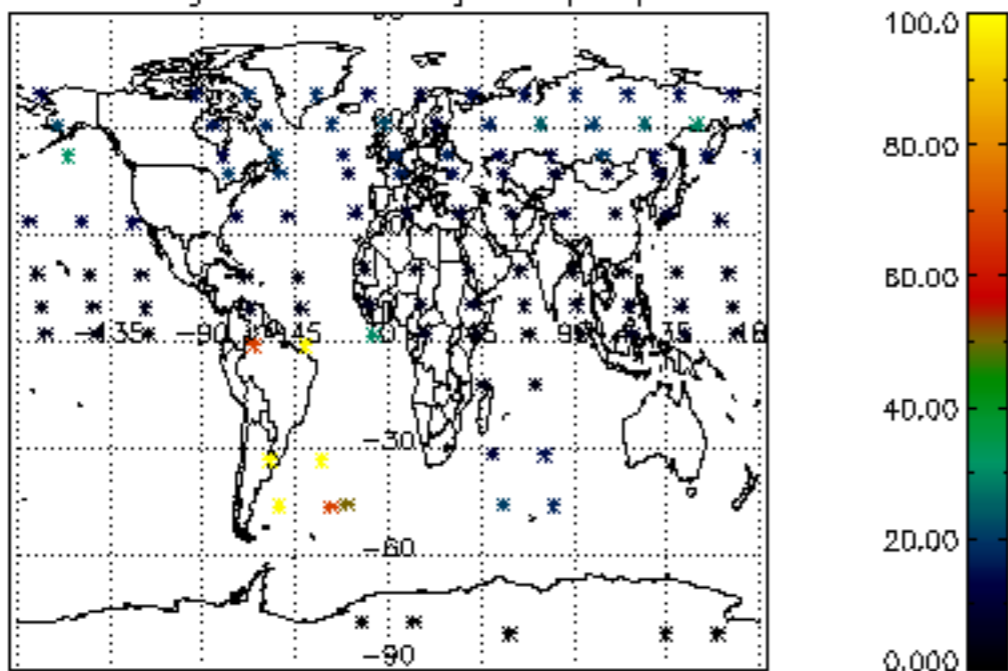
Percentage of flagged data per NO3 profile



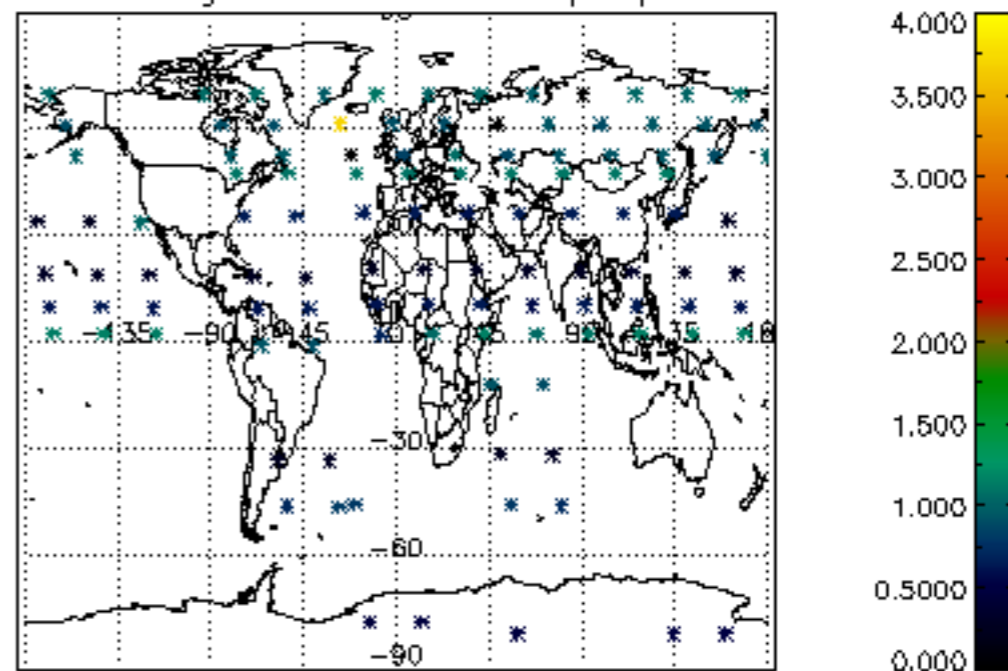




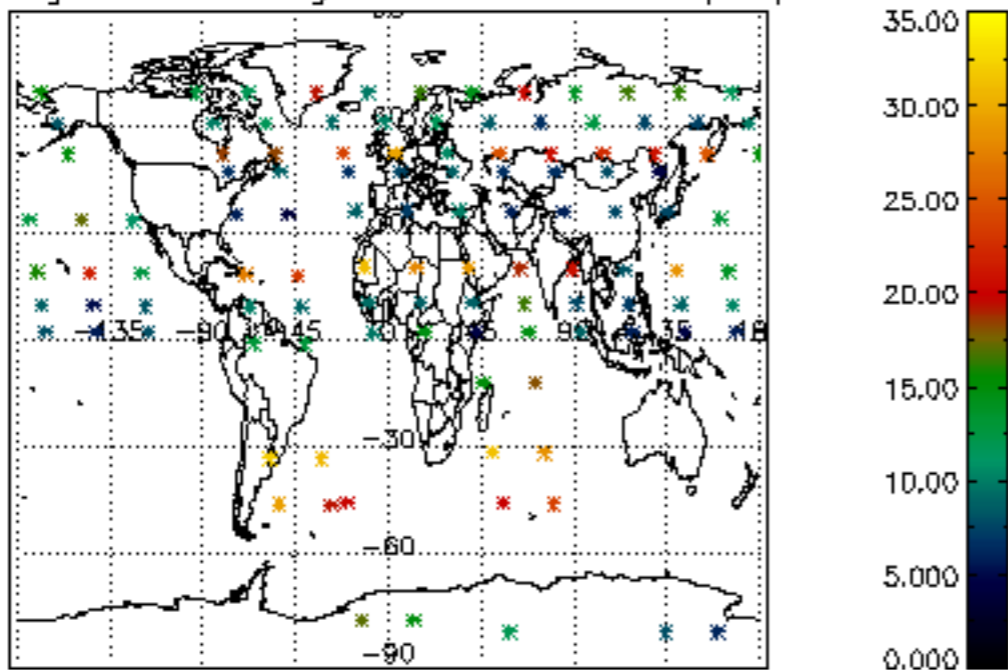
Percentage of cosmic ray hits per profile



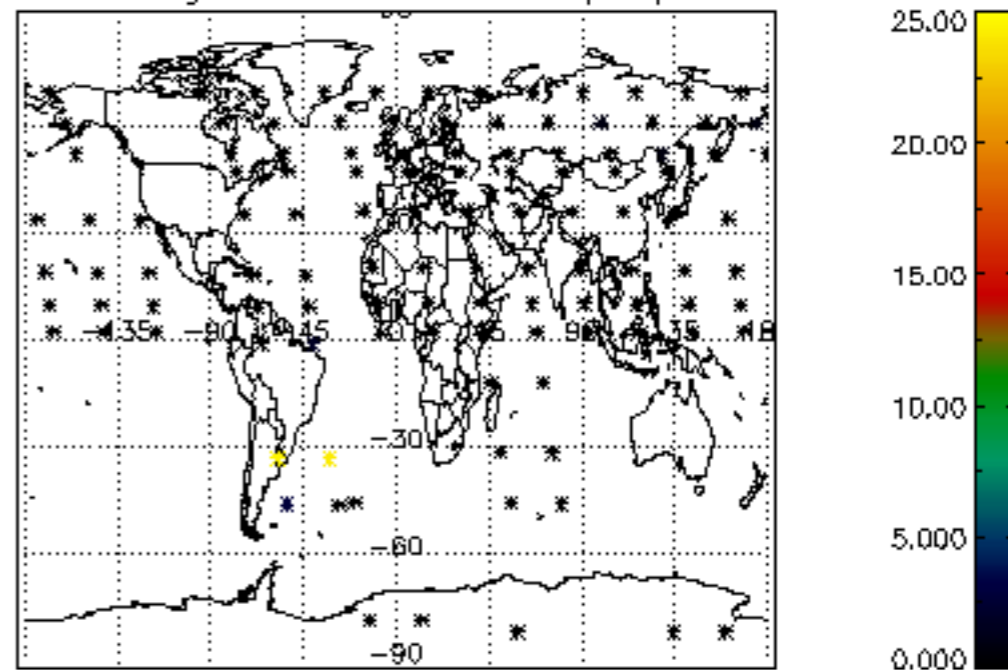
Percentage of datation errors per profile



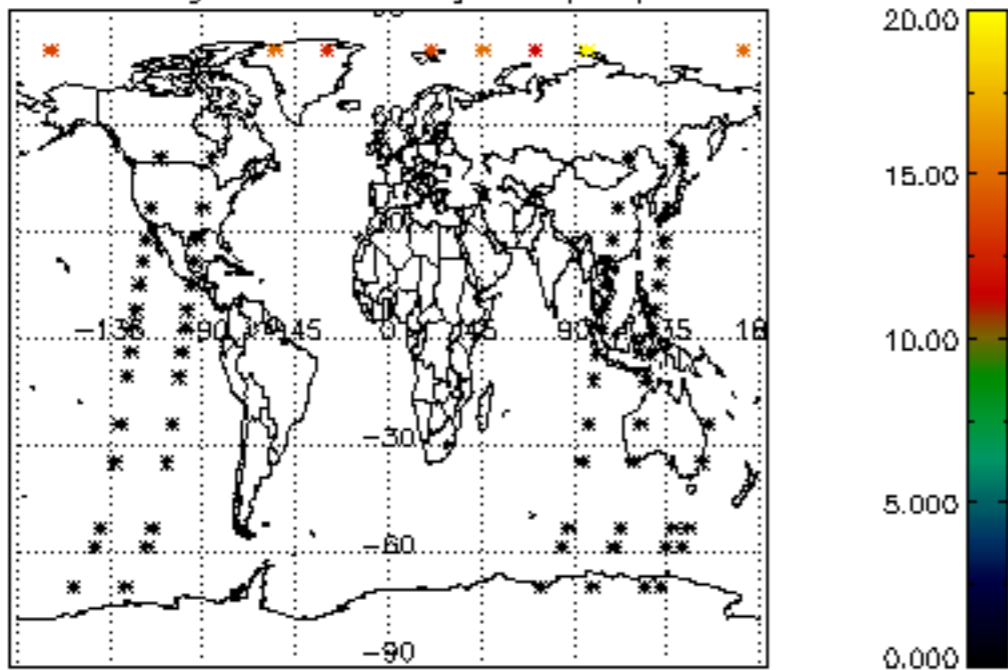
Percentage of star falling outside central band per profile



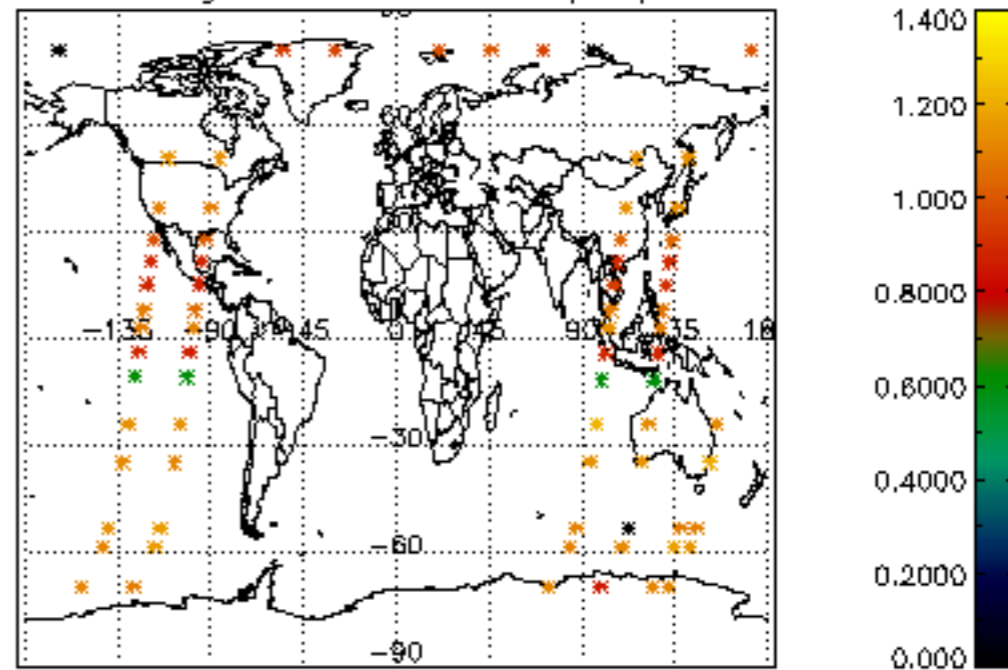
Percentage of saturation errors per profile



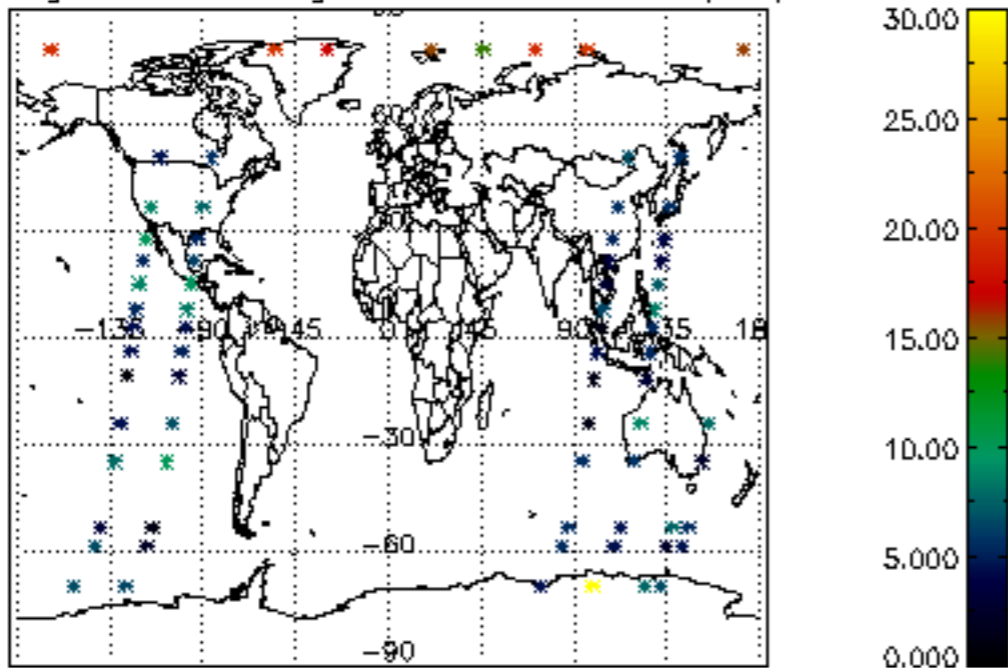
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

