

GOMOS Level 2 Daily Report

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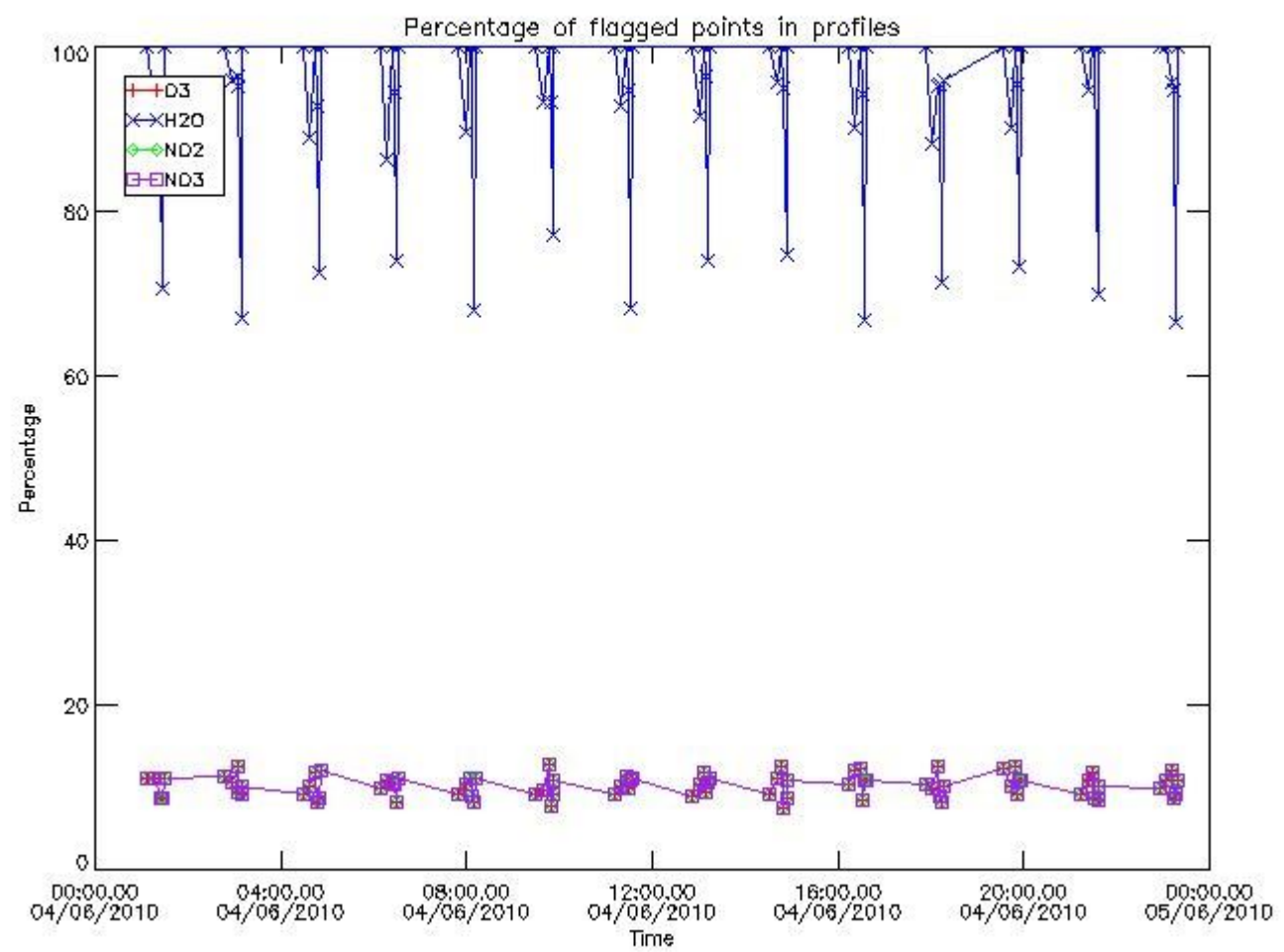
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279	GOM_NL__2PRFIN20100604_215433_000000492090_00058_43198_3027.N1	04-JUN-2010 21:54:33	Twilight	48.500	75	26Eps Sco	2.2910	4250.0	97	43198	No
280	GOM_NL__2PRFIN20100604_215633_000000502090_00058_43198_3028.N1	04-JUN-2010 21:56:33	Bright	50.000	136	23Tau Sco	2.8220	30000.	100	43198	No
281	GOM_NL__2PRFIN20100604_220004_000000432090_00058_43198_3029.N1	04-JUN-2010 22:00:04	Bright	43.000	86	35Eta Oph	2.4300	10200.	86	43198	No
282	GOM_NL__2PRFIN20100604_220152_000000412090_00058_43198_3030.N1	04-JUN-2010 22:01:52	Bright	40.500	98	13Zet Oph	2.5710	30000.	81	43198	No
283	GOM_NL__2PRFIN20100604_220401_000000382090_00058_43198_3031.N1	04-JUN-2010 22:04:01	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	43198	No
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287	GOM_NL__2PRFIN20100604_223324_000000482090_00058_43198_3035.N1	04-JUN-2010 22:33:24	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	43198	No
288	GOM_NL__2PRFIN20100604_223851_000000562090_00058_43198_3036.N1	04-JUN-2010 22:38:51	Bright	56.000	76	27Gam Cas	2.3000	30000.	112	43198	No
289	GOM_NL__2PRFIN20100604_224646_000000492090_00058_43198_3037.N1	04-JUN-2010 22:46:46	Bright	48.500	53	43Bet And	2.0480	3300.0	97	43198	No
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292	GOM_NL__2PRFIN20100604_230354_000000482090_00058_43198_3040.N1	04-JUN-2010 23:03:54	Dark	47.500	52	16Bet Cet	2.0370	4500.0	95	43198	No
293	GOM_NL__2PRFIN20100604_231032_000000472090_00058_43198_3041.N1	04-JUN-2010 23:10:32	Dark	46.500	84	Alp Phe	2.3970	4500.0	93	43198	No
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297	GOM_NL__2PRFIN20100604_232248_000000432090_00059_43199_3032.N1	04-JUN-2010 23:22:48	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	43199	No
298	GOM_NL__2PRFIN20100604_233142_000000472090_00059_43199_3033.N1	04-JUN-2010 23:31:42	Straylight	46.500	40	The Sco	1.8590	7100.0	93	43199	No
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300	GOM_NL__2PRFIN20100604_233510_000000482090_00059_43199_3035.N1	04-JUN-2010 23:35:10	Twilight	47.500	75	26Eps Sco	2.2910	4250.0	95	43199	No
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303	GOM_NL__2PRFIN20100604_234229_000000402090_00059_43199_3038.N1	04-JUN-2010 23:42:29	Bright	39.500	98	13Zet Oph	2.5710	30000.	79	43199	No
304	GOM_NL__2PRFIN20100604_234437_000000382090_00059_43199_3039.N1	04-JUN-2010 23:44:37	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	43199	No
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306	GOM_NL__2PRFIN20100604_235548_000000412090_00059_43199_3041.N1	04-JUN-2010 23:55:48	Bright	41.000	133	40Zet Her	2.8070	6000.0	82	43199	No

3. Quality information per product

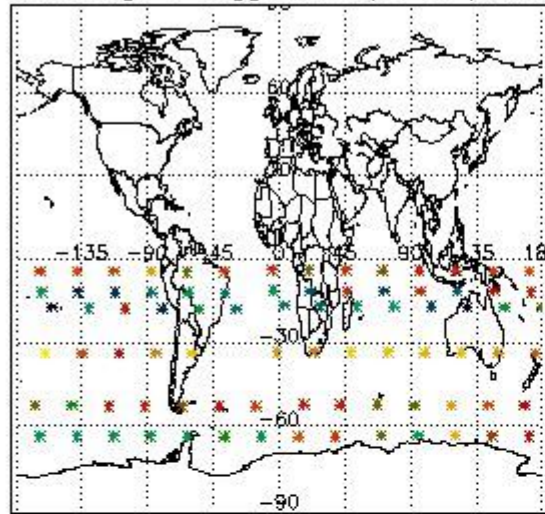
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

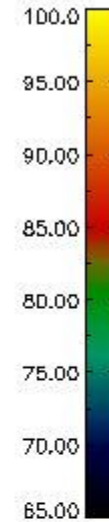
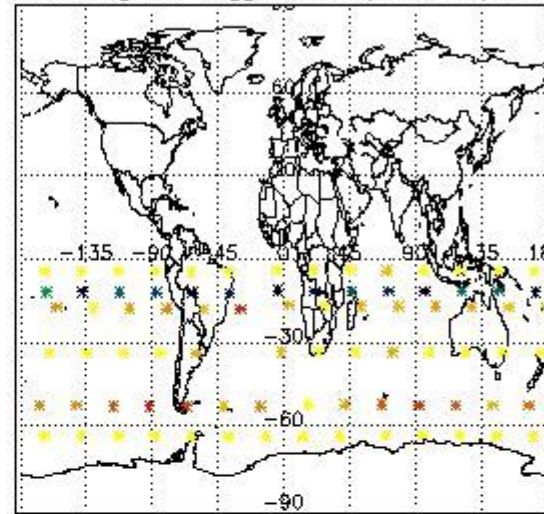


3.2 Plot quality information per product (world map)

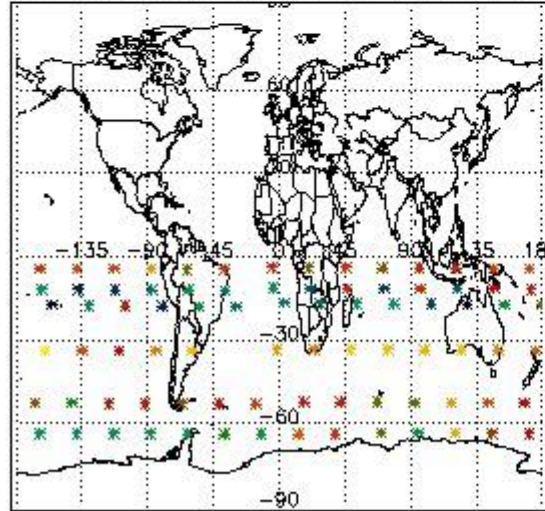
Percentage of flagged data per O3 profile



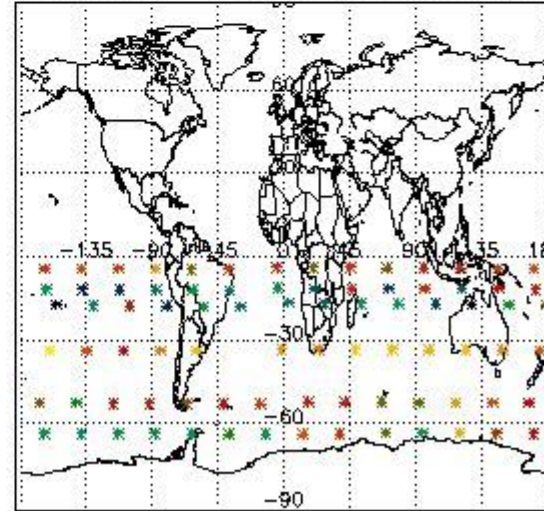
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

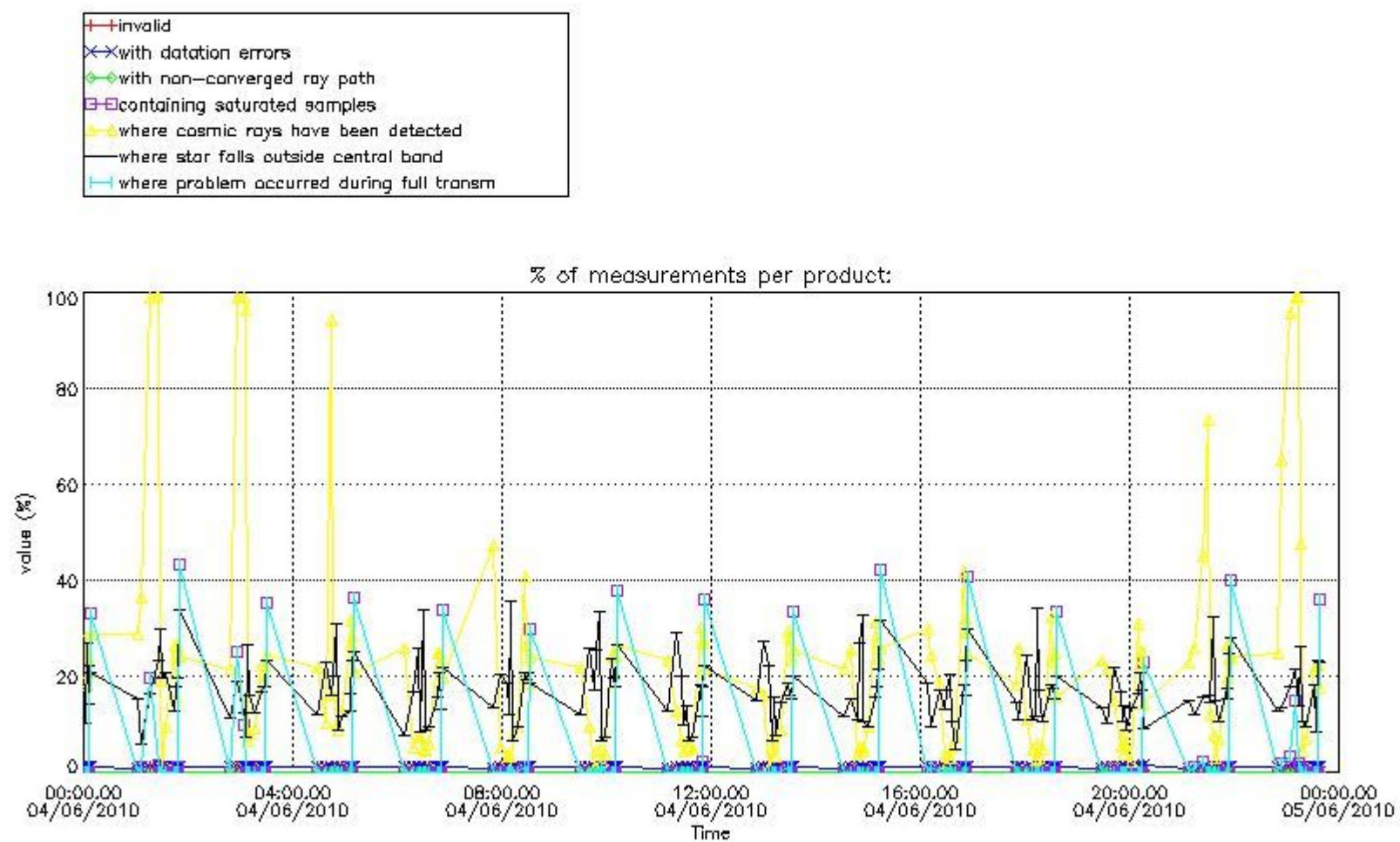


4. Level 1 quality information per product

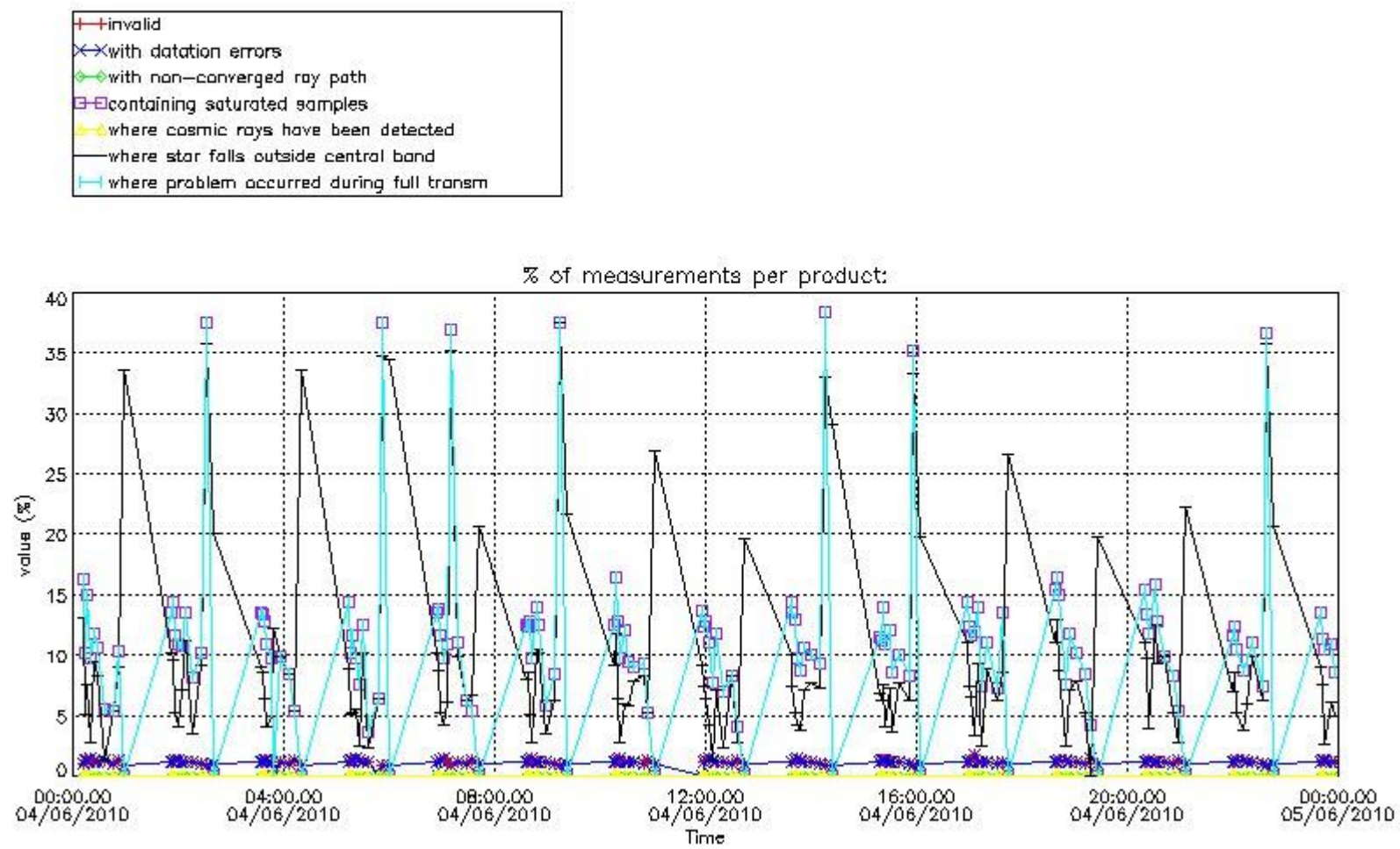
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

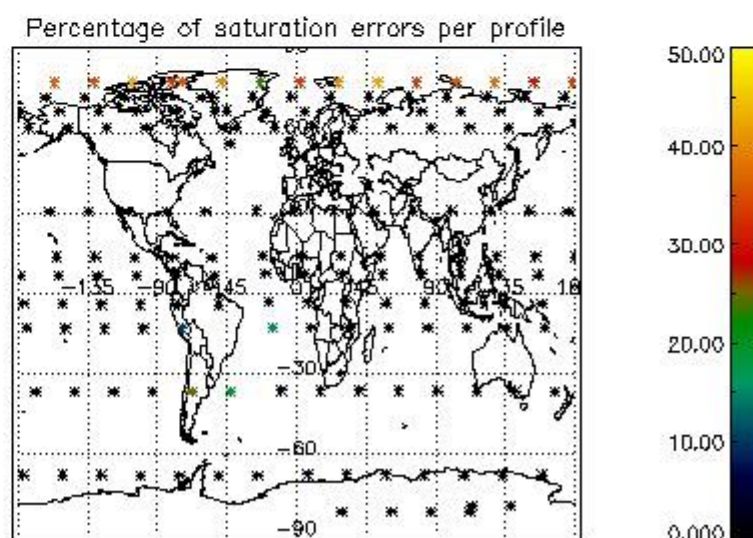
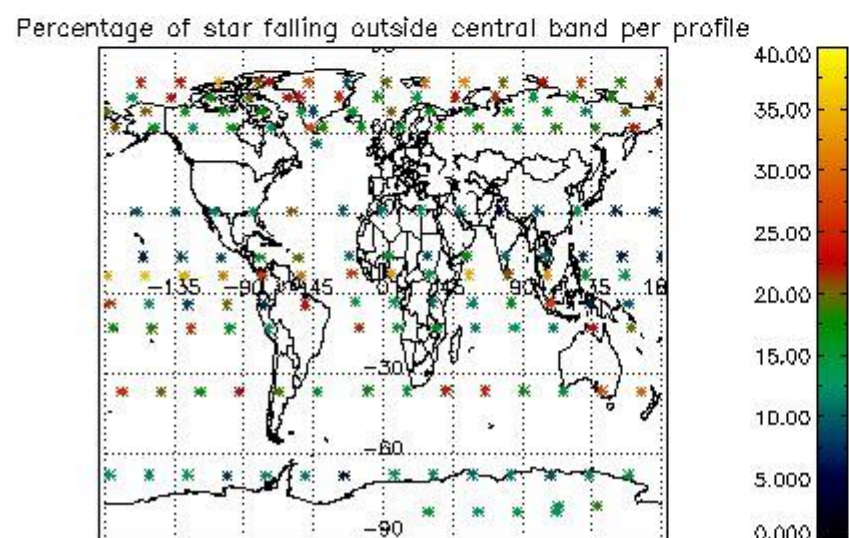
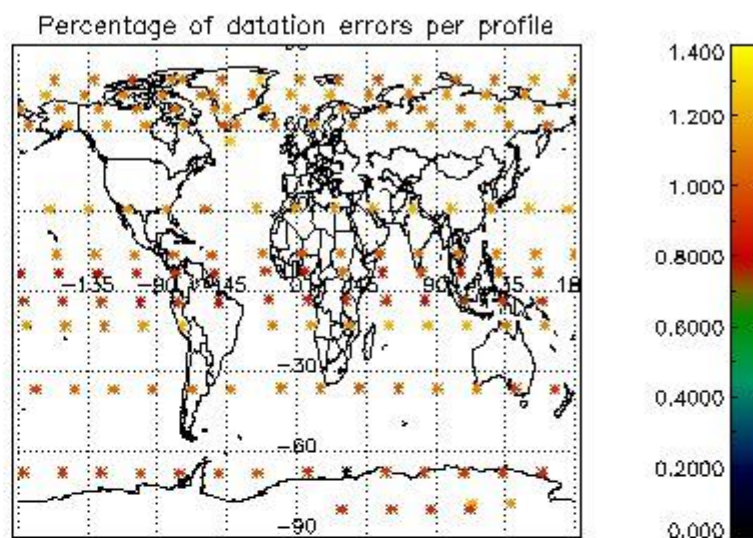
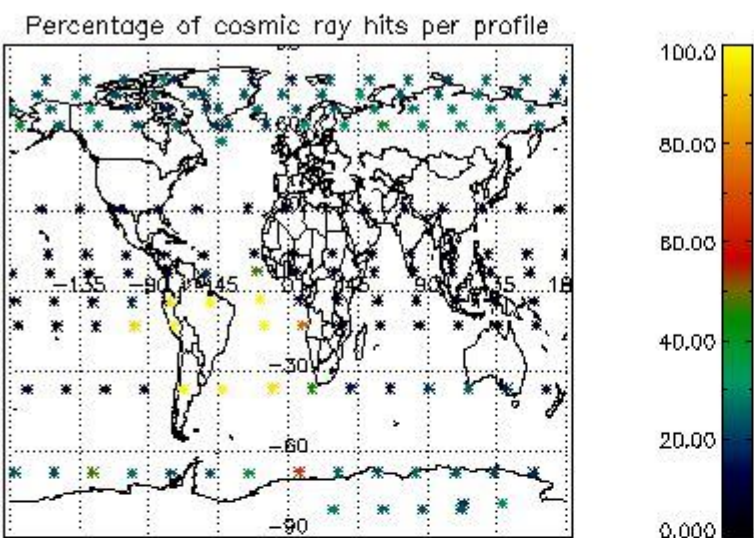


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

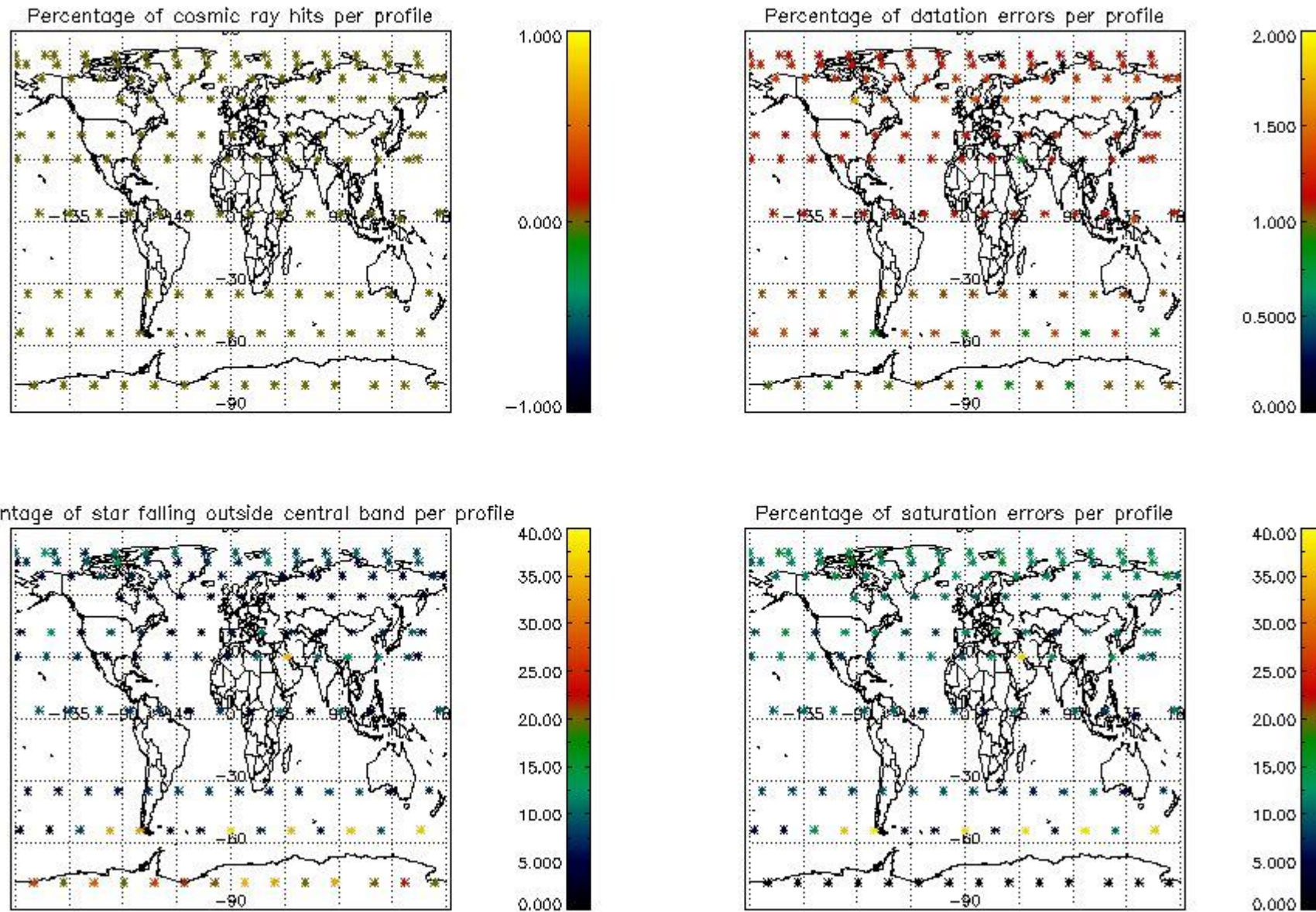


4.2 Plot quality information per product coming from level 1b processing (world map)

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`

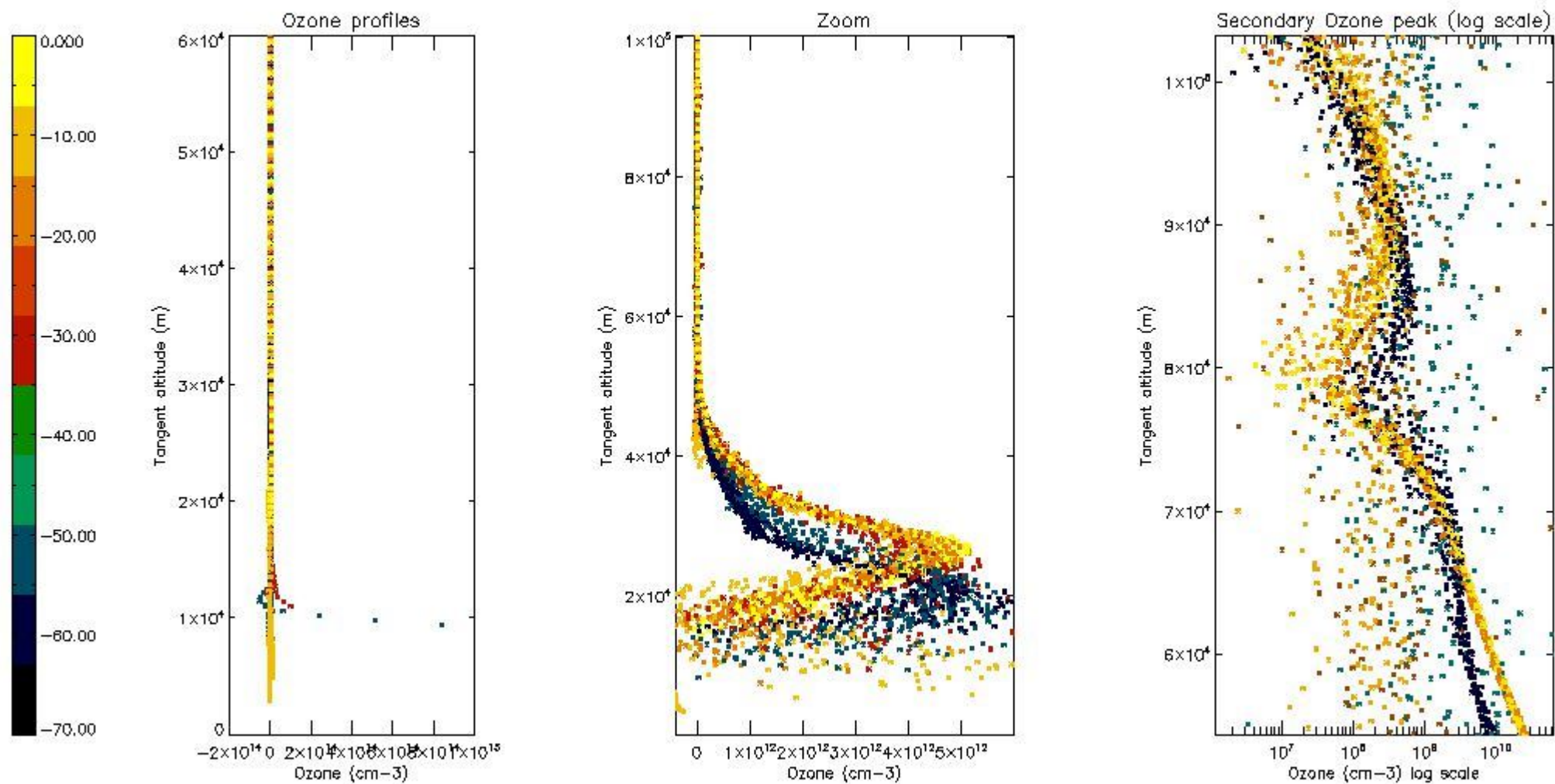
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	14

STD < 10	10
STD < 5	7

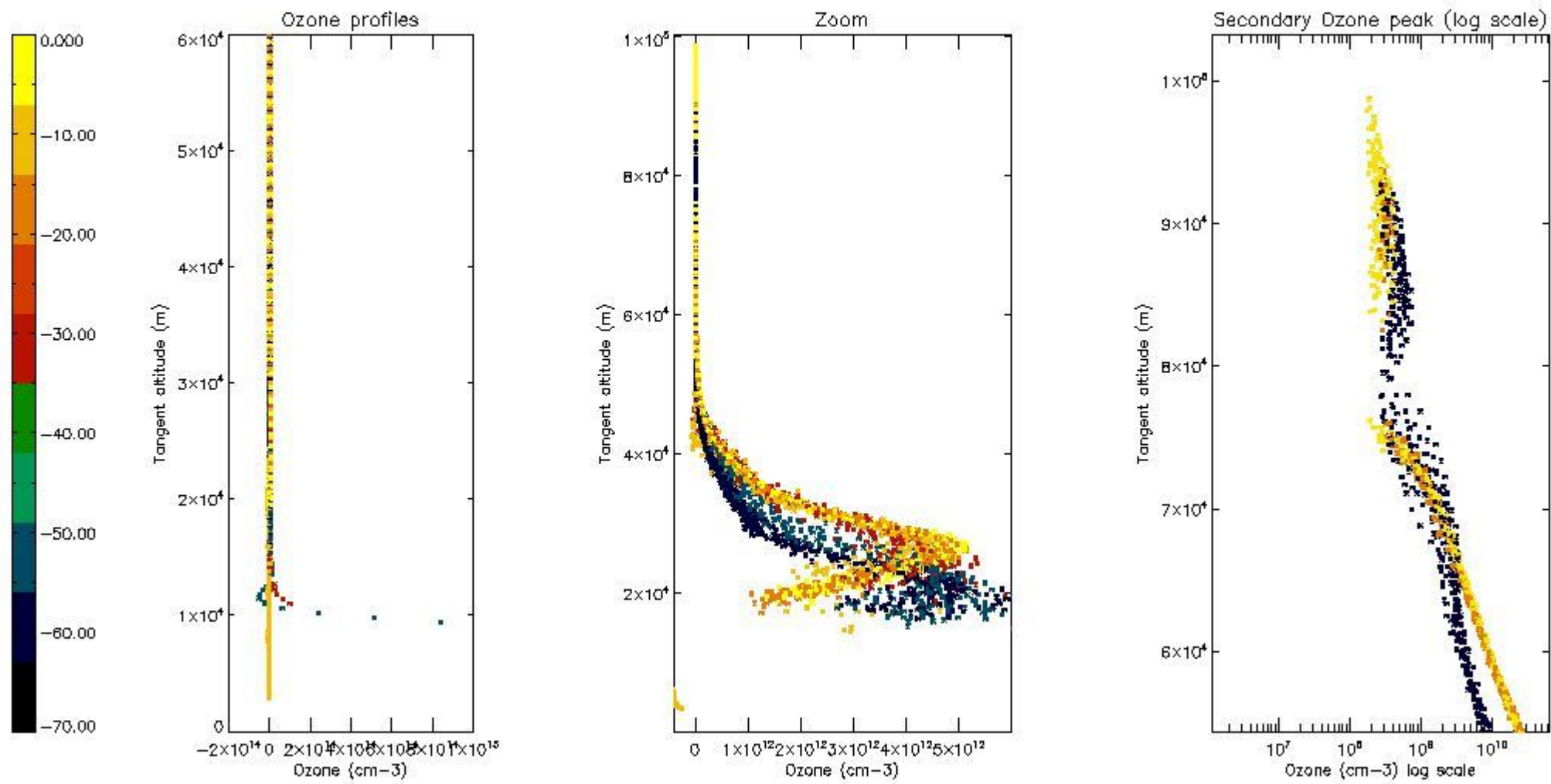
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



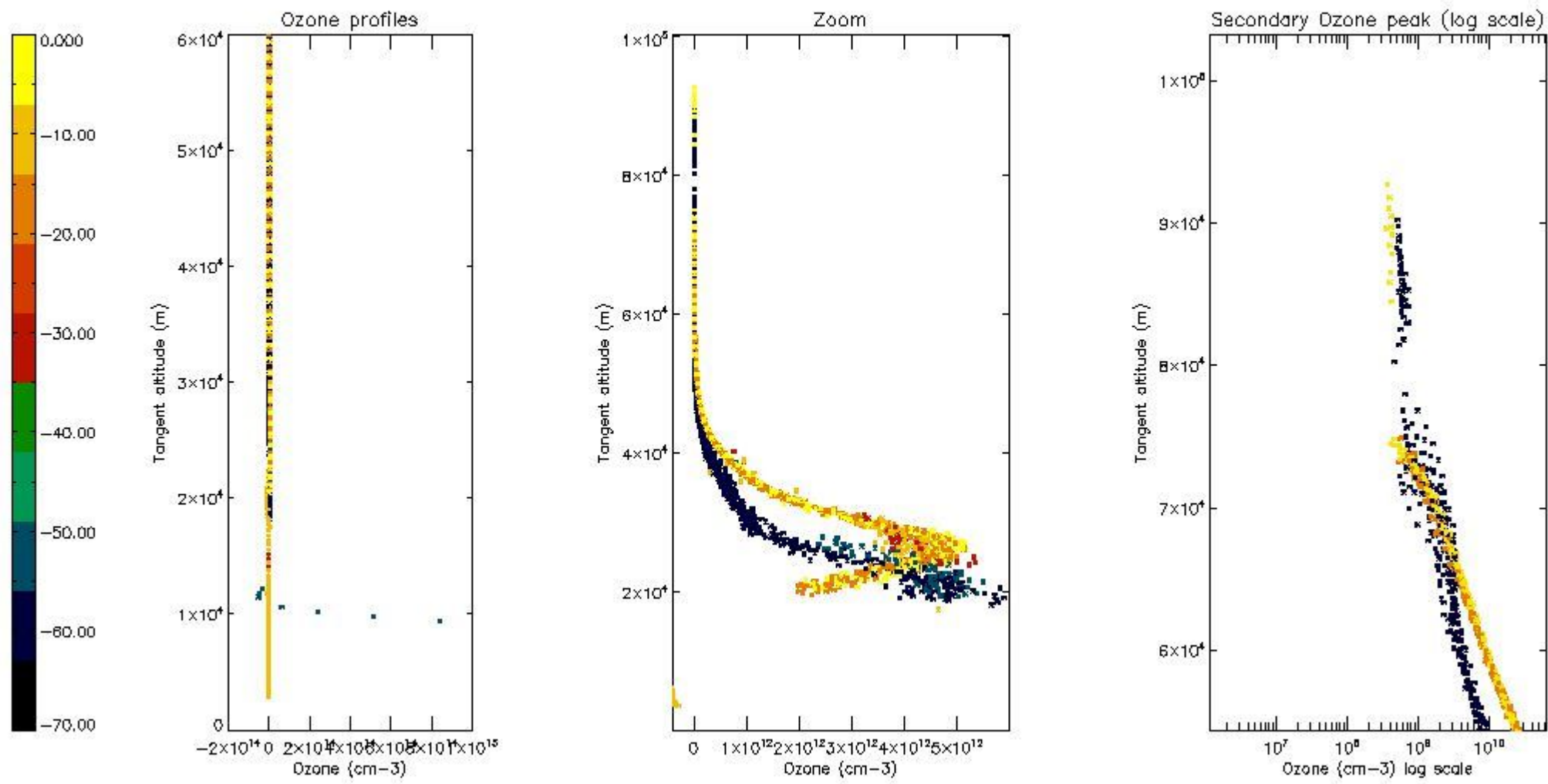
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



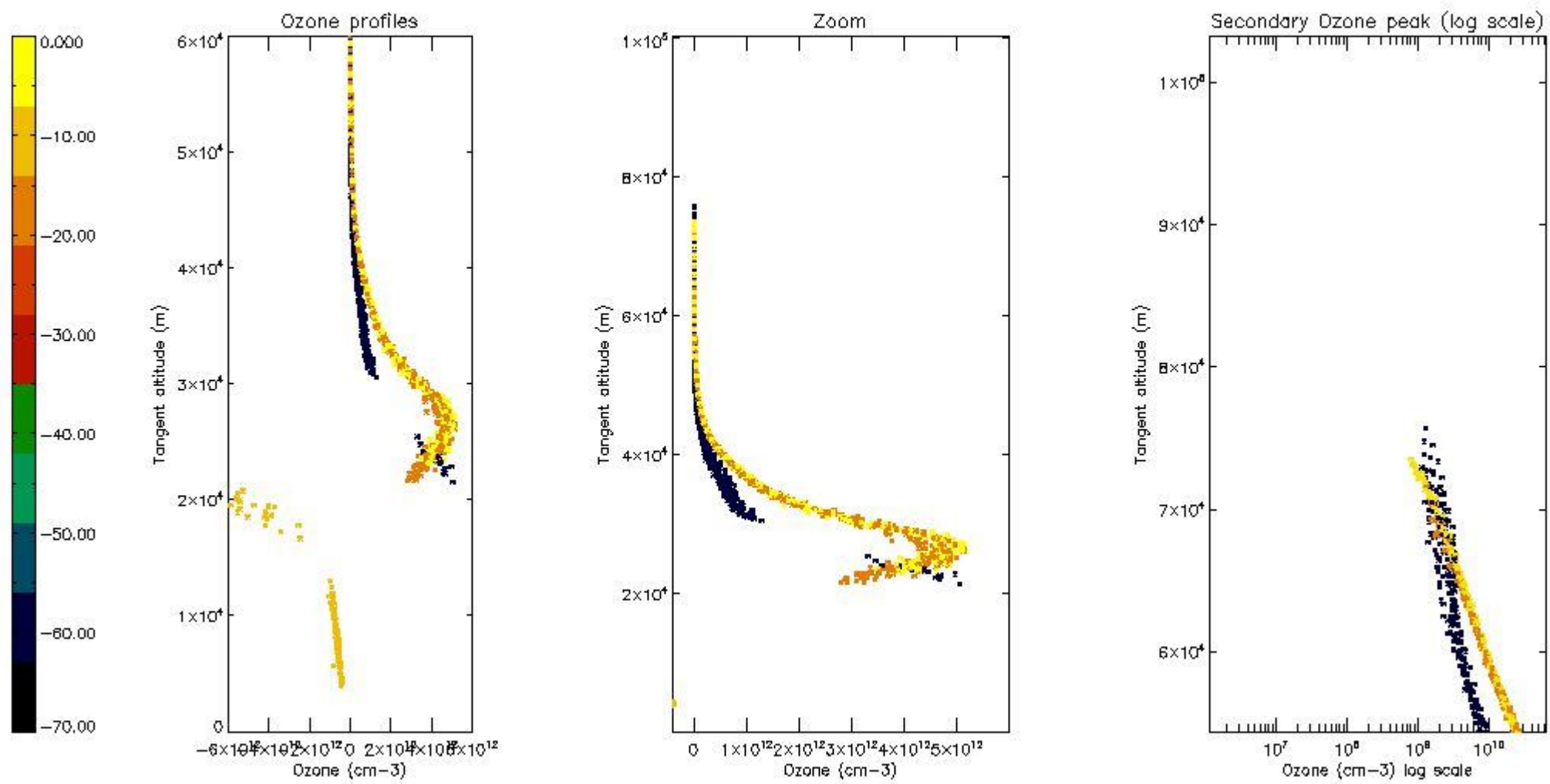
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



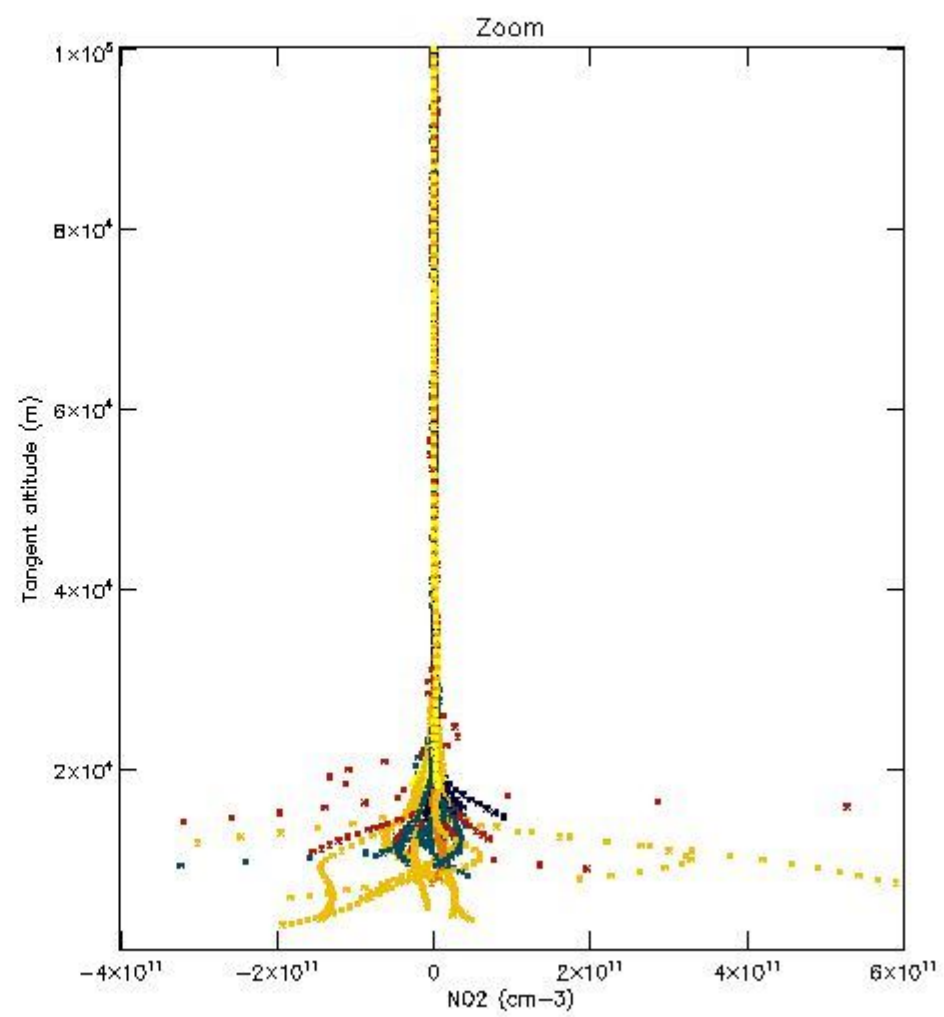
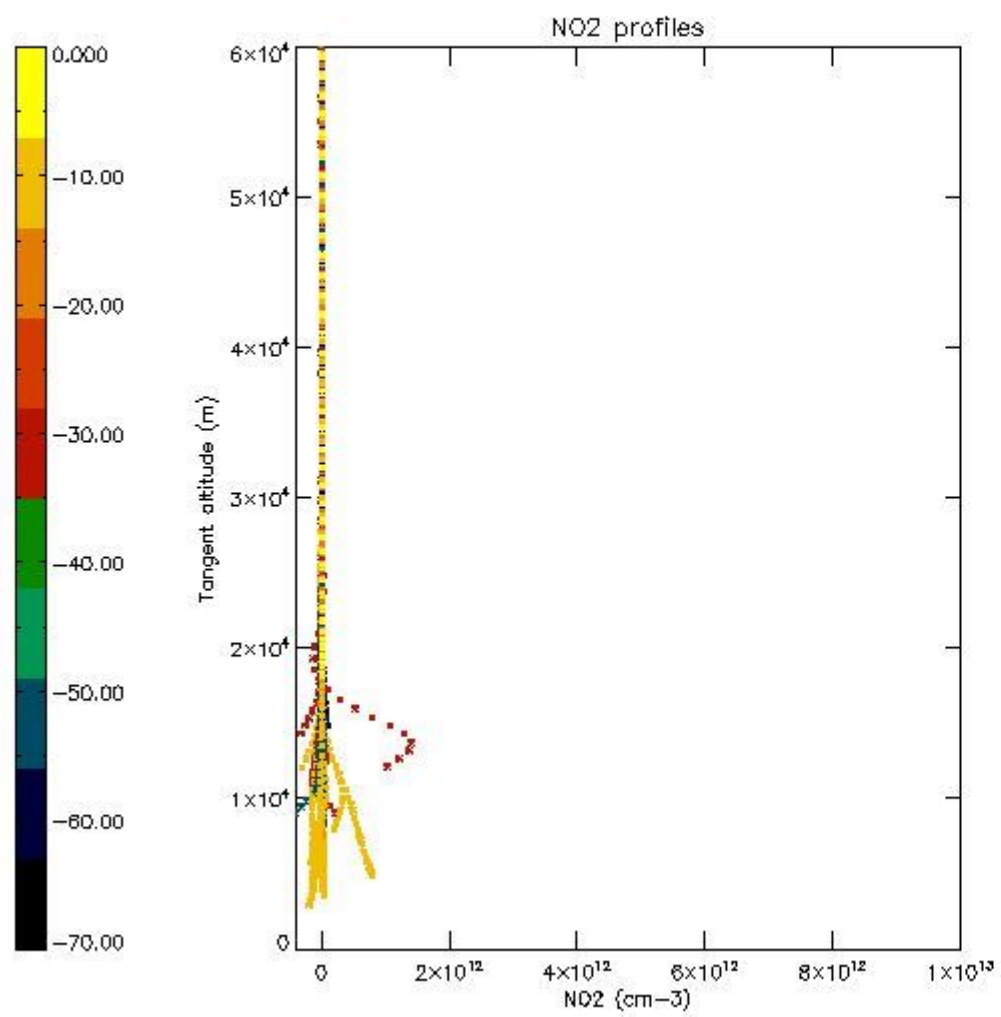
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



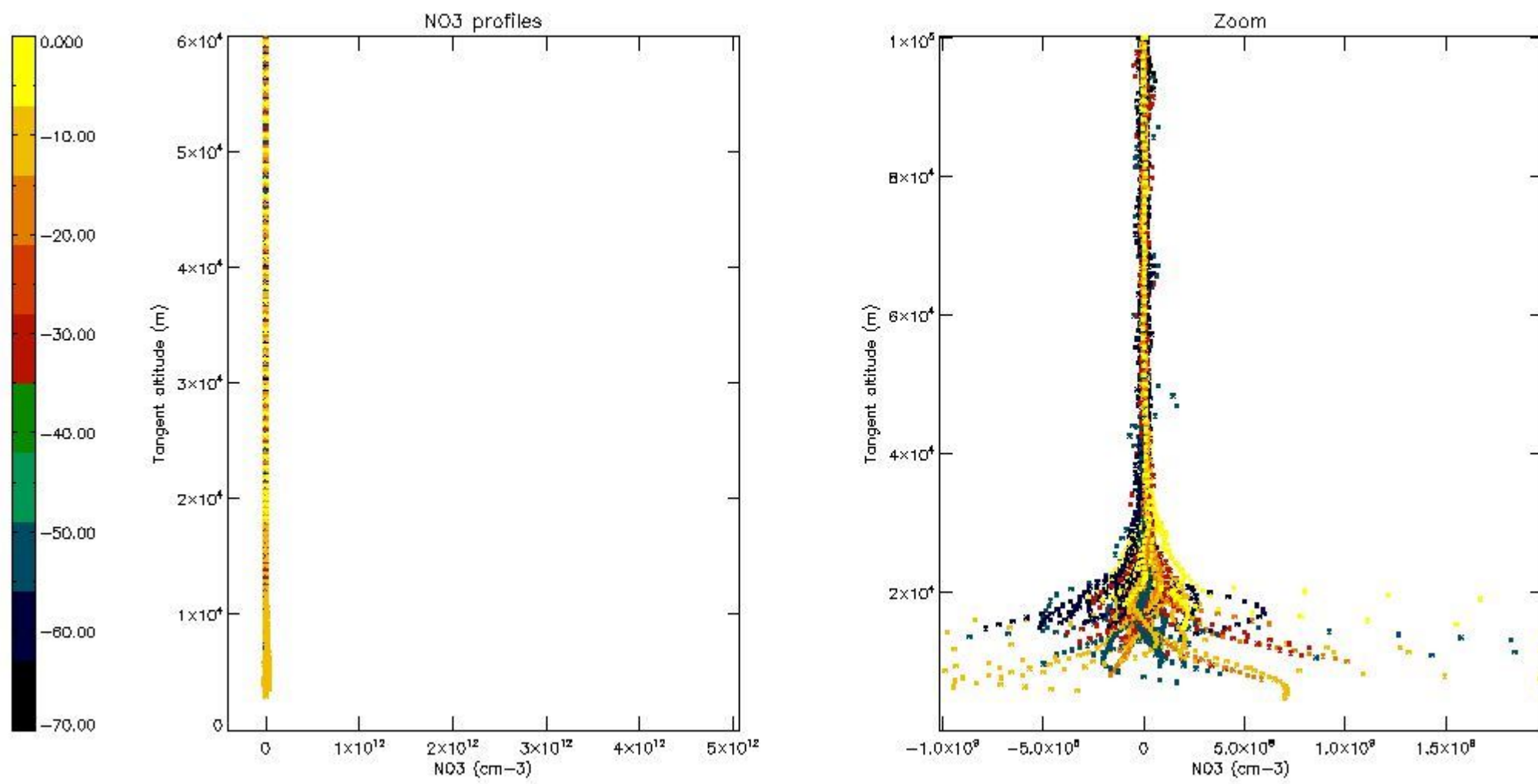
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



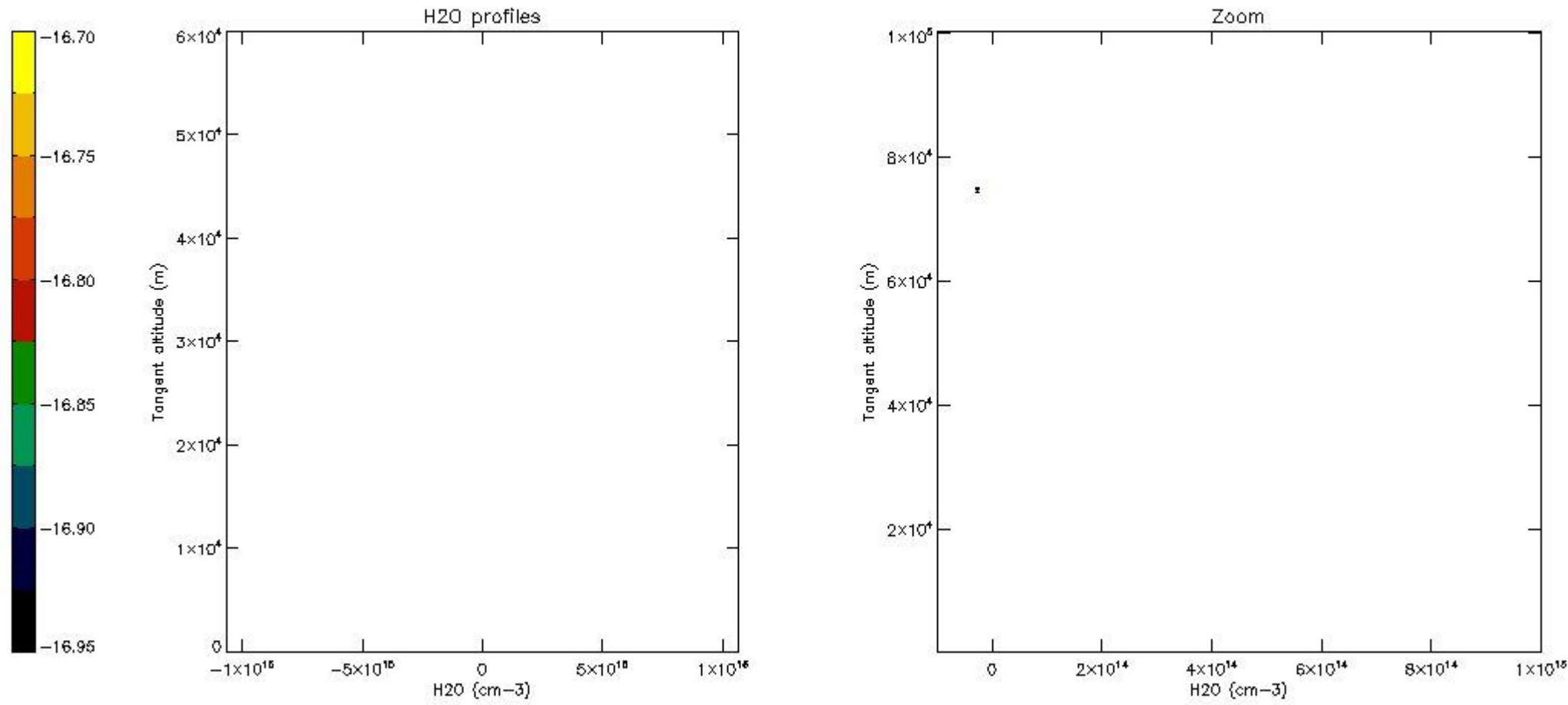
5.7 Plot NO3 profiles for all STD (dark without errors)

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	04-JUN-2010 00:01:32
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-JUN-2010 00:01:32
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-JUN-2010 00:01:32

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

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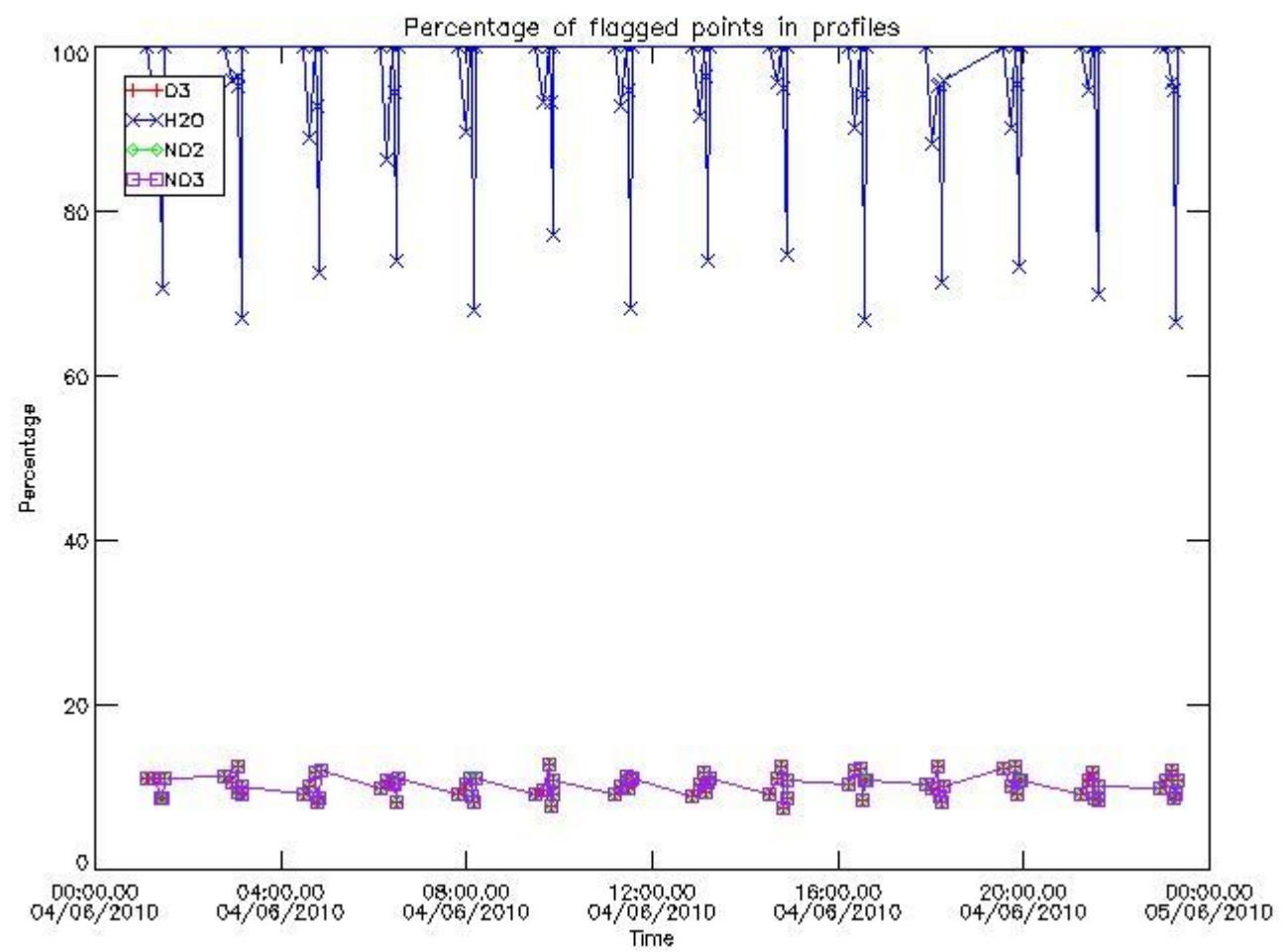
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303	GOM_NL__2PRFIN20100604_234229_000000402090_00059_43199_3038.N1	04-JUN-2010 23:42:29	Bright	39.500	98	13Zet Oph	2.5710	30000.	79	43199	No
304	GOM_NL__2PRFIN20100604_234437_000000382090_00059_43199_3039.N1	04-JUN-2010 23:44:37	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	43199	No
305	GOM_NL__2PRFIN20100604_235229_000000412090_00059_43199_3040.N1	04-JUN-2010 23:52:29	Bright	41.000	127	27Bet Her	2.7810	4700.0	82	43199	No
306	GOM_NL__2PRFIN20100604_235548_000000412090_00059_43199_3041.N1	04-JUN-2010 23:55:48	Bright	41.000	133	40Zet Her	2.8070	6000.0	82	43199	No

3. Quality information per product

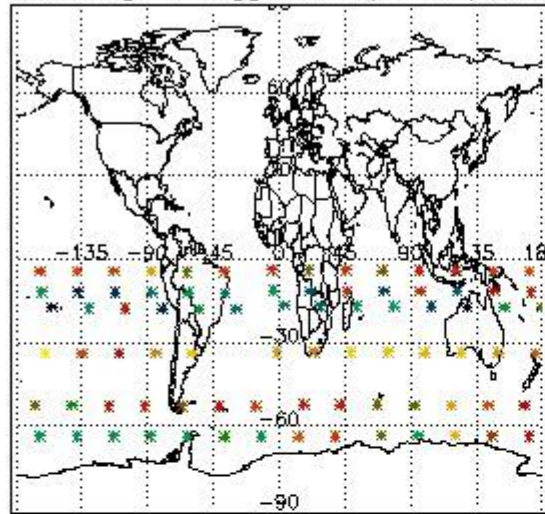
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

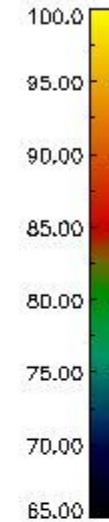
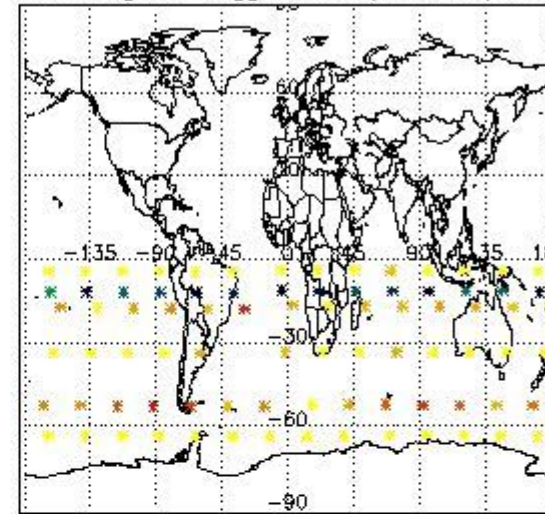


3.2 Plot quality information per product (world map)

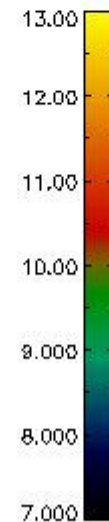
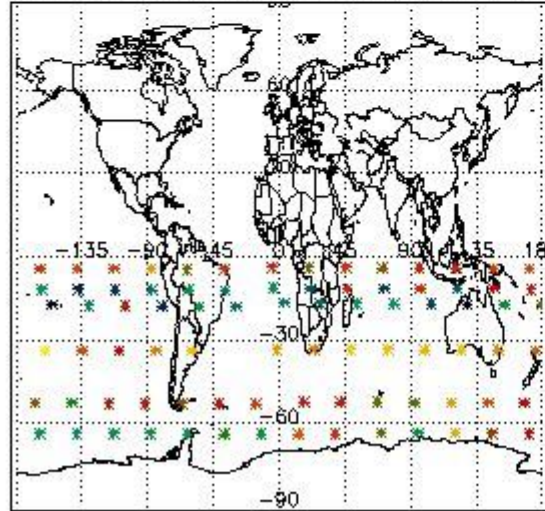
Percentage of flagged data per O3 profile



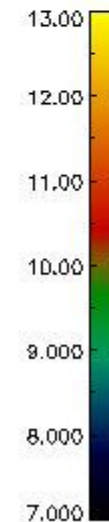
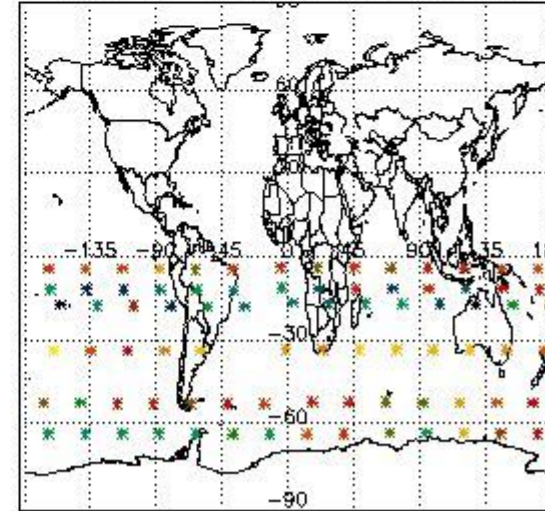
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

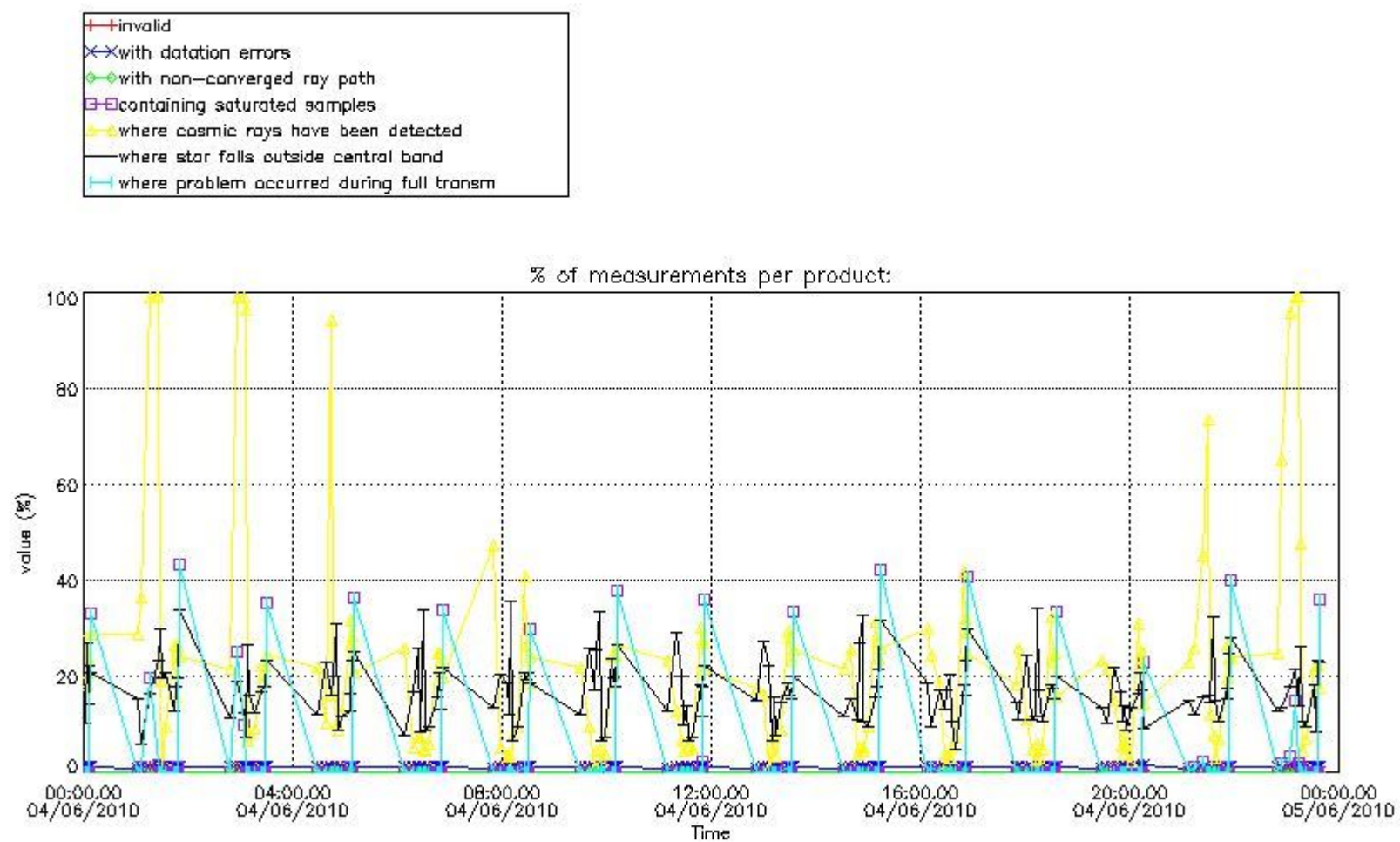


4. Level 1 quality information per product

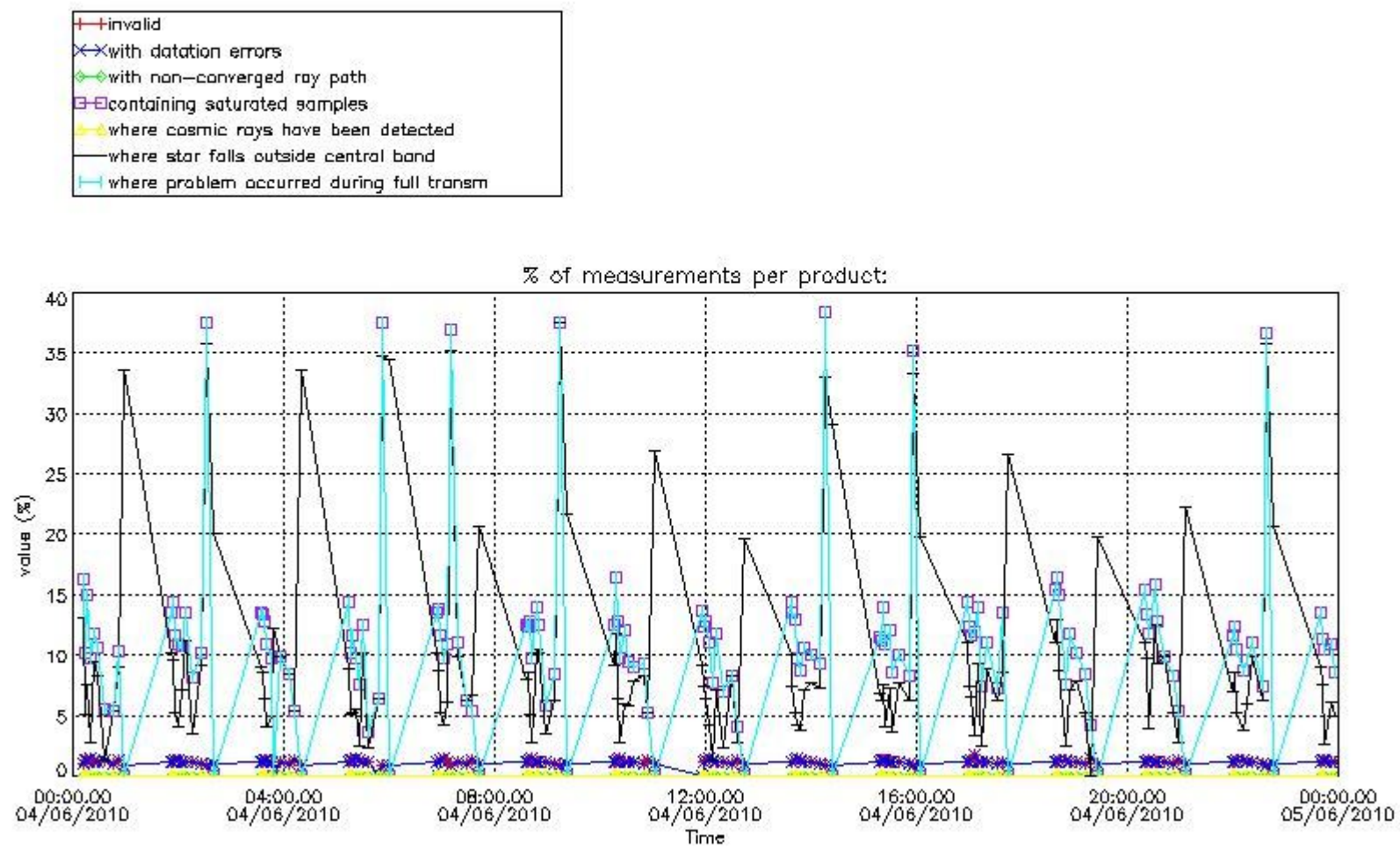
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

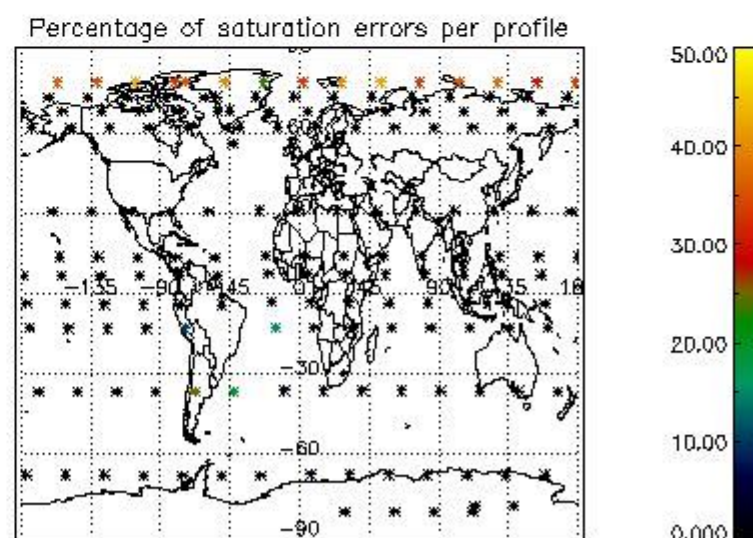
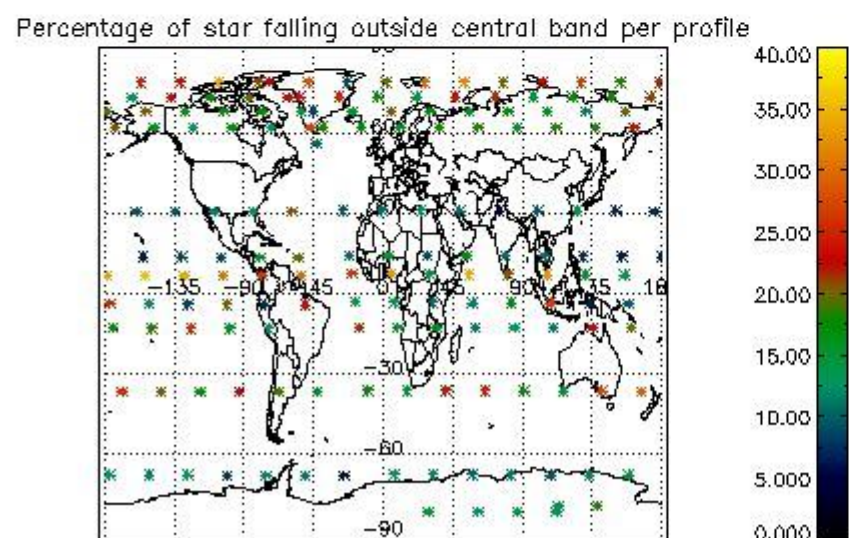
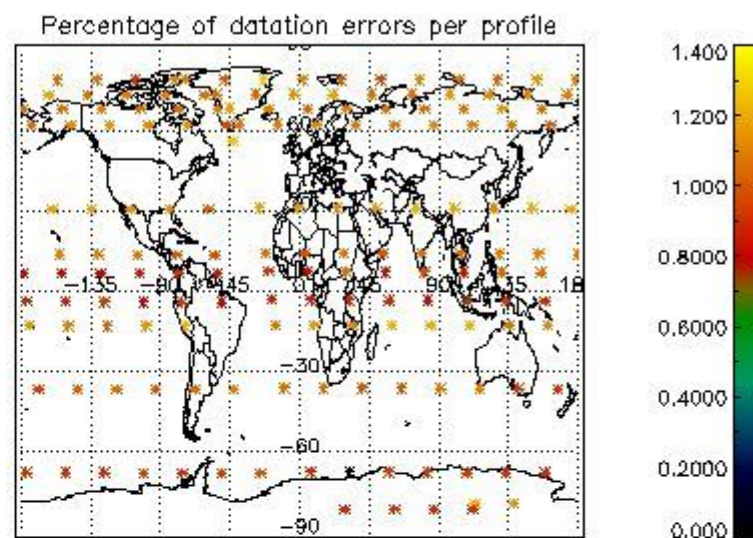
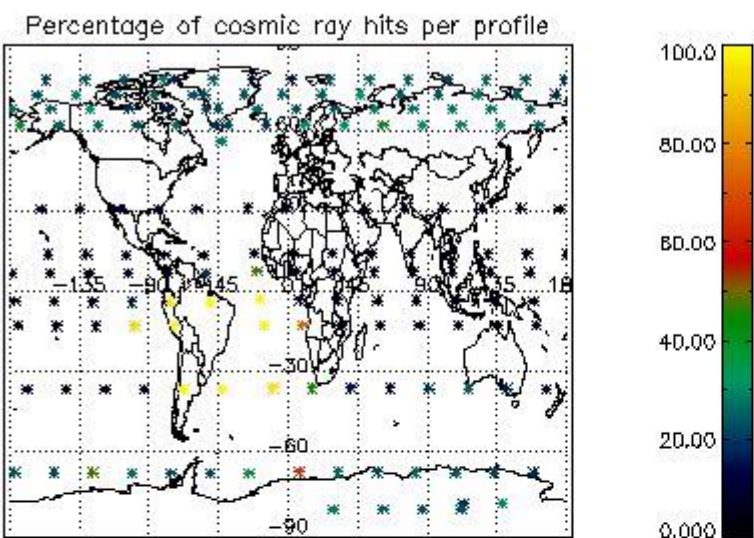


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

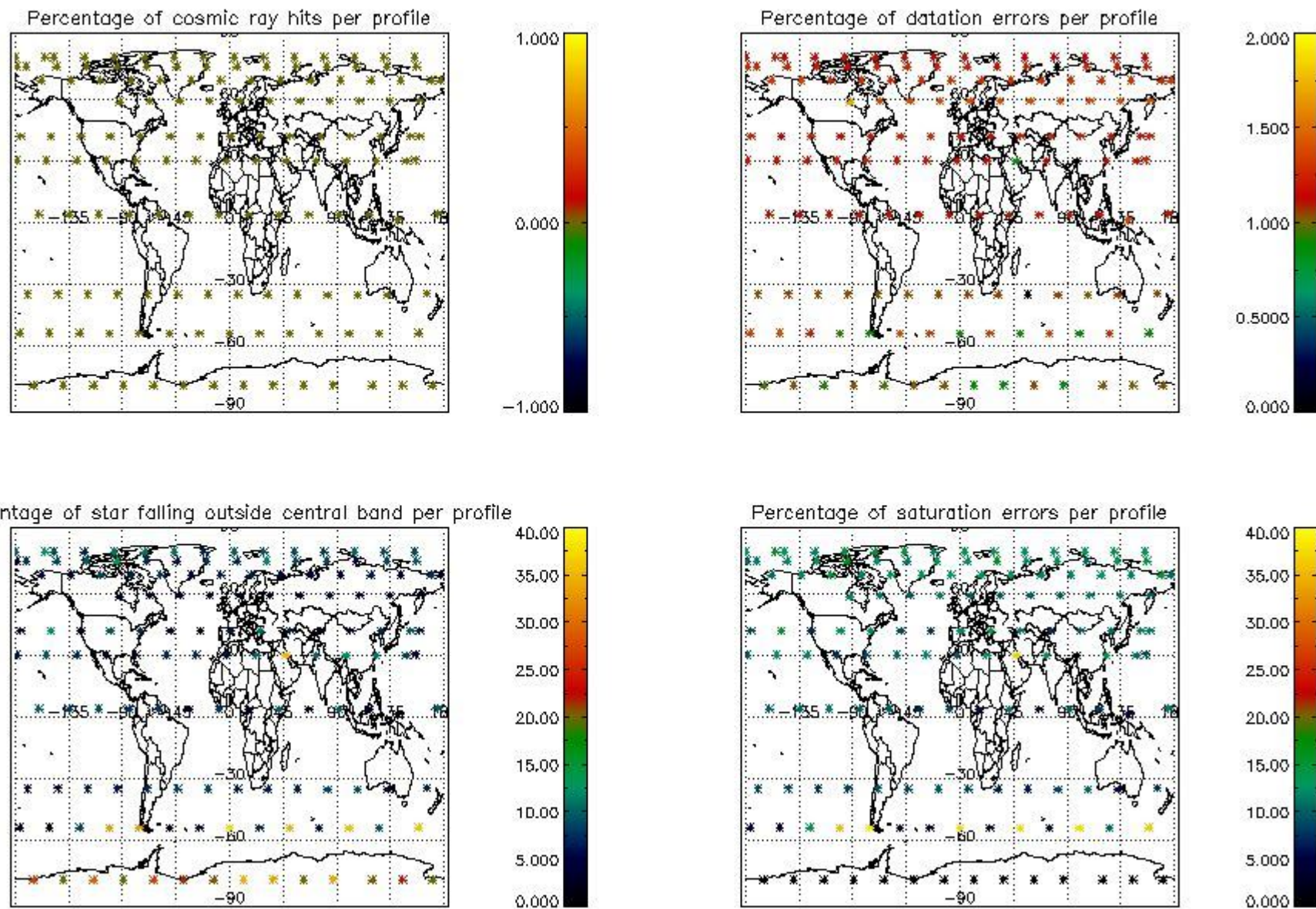


4.2 Plot quality information per product coming from level 1b processing (world map)

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

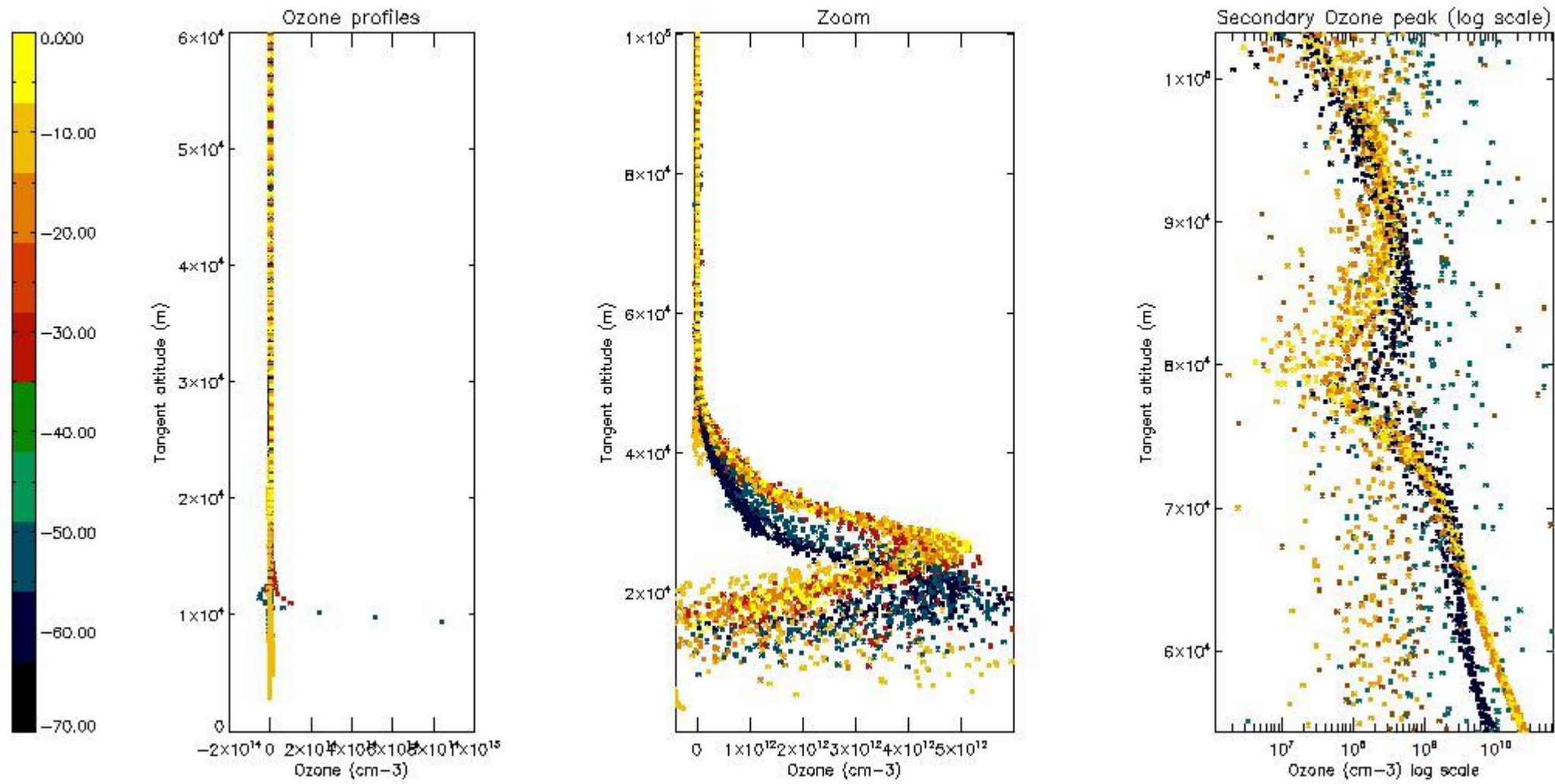
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	14

STD < 10	10
STD < 5	7

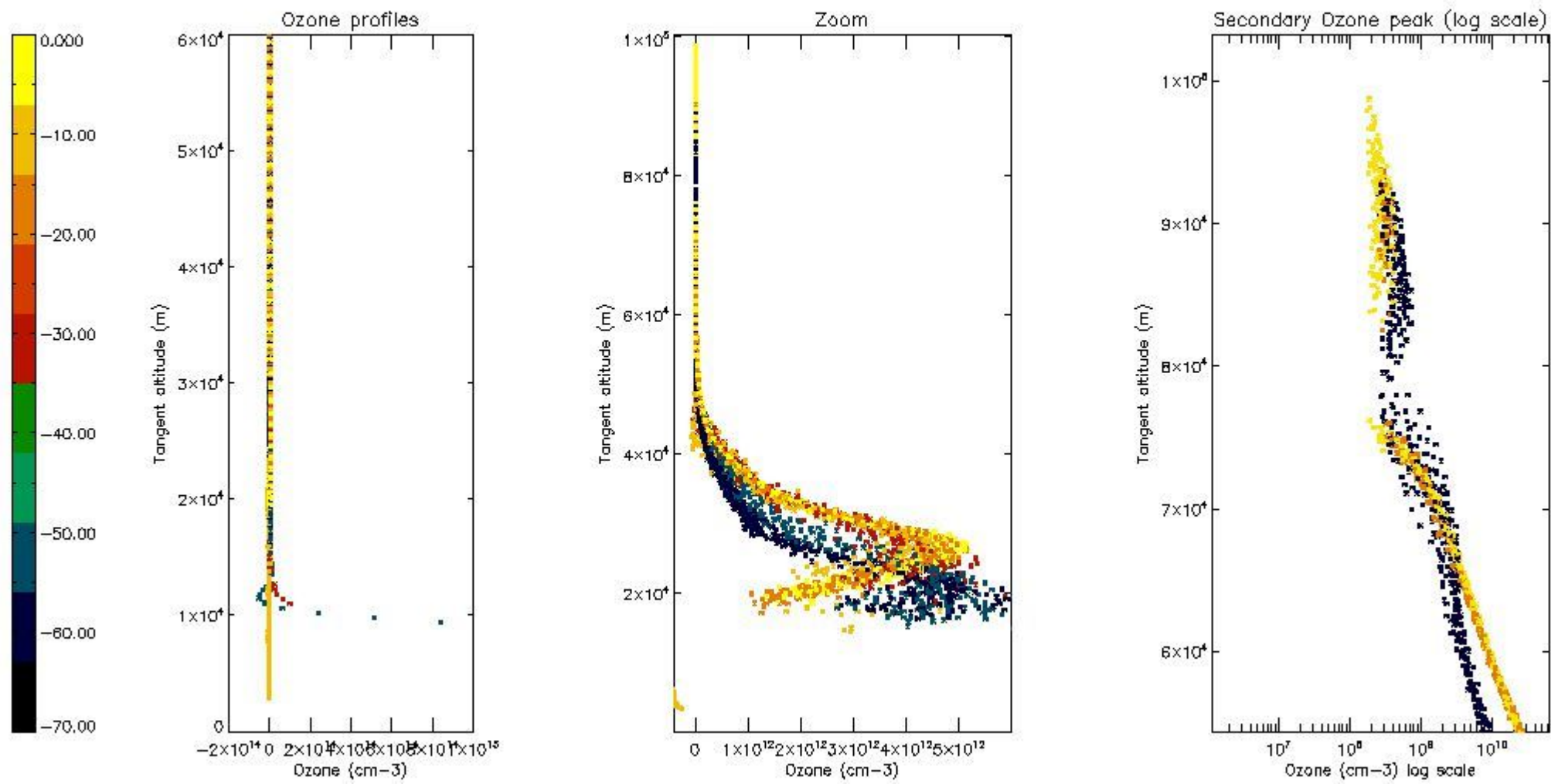
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



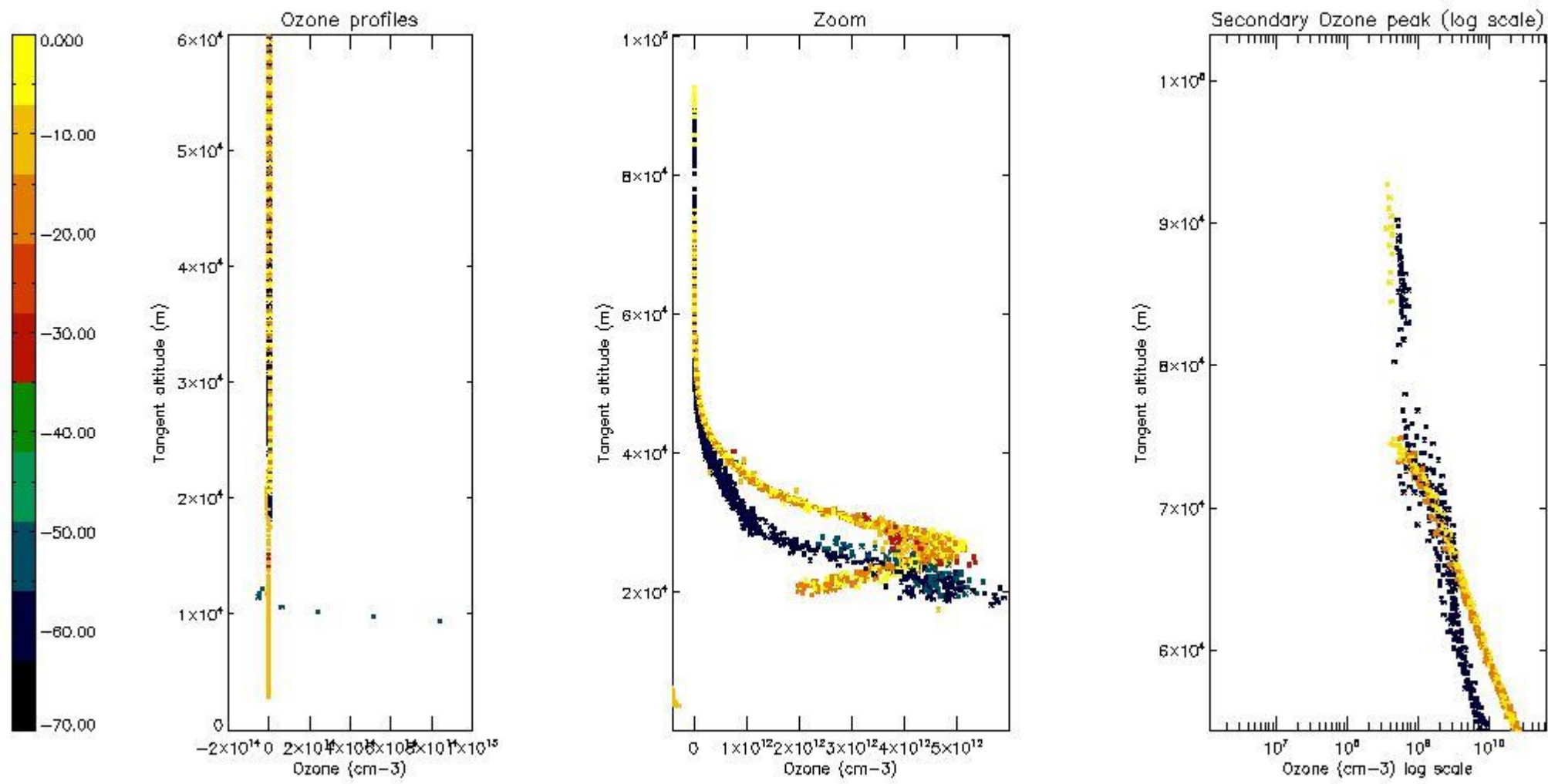
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



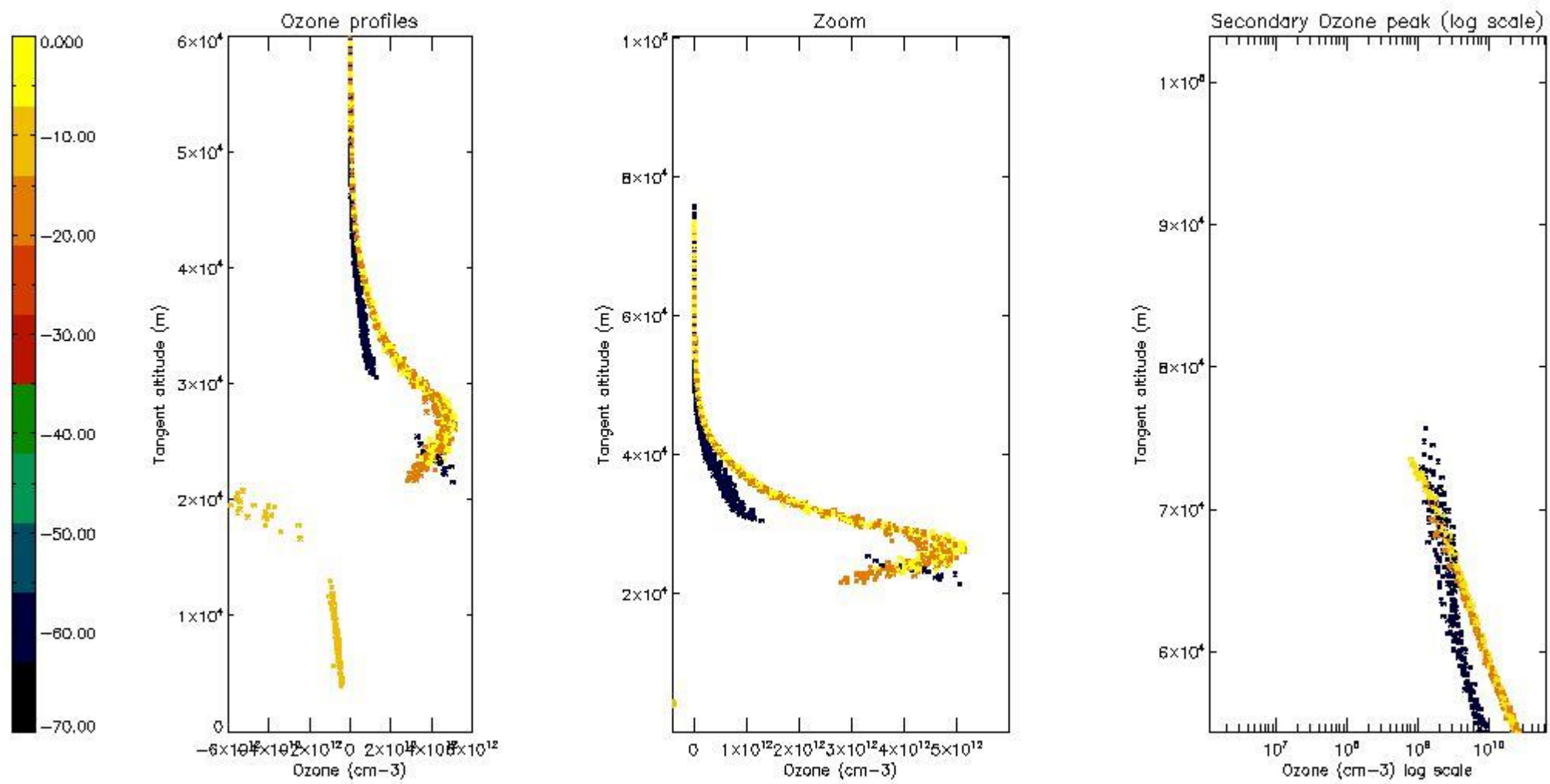
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



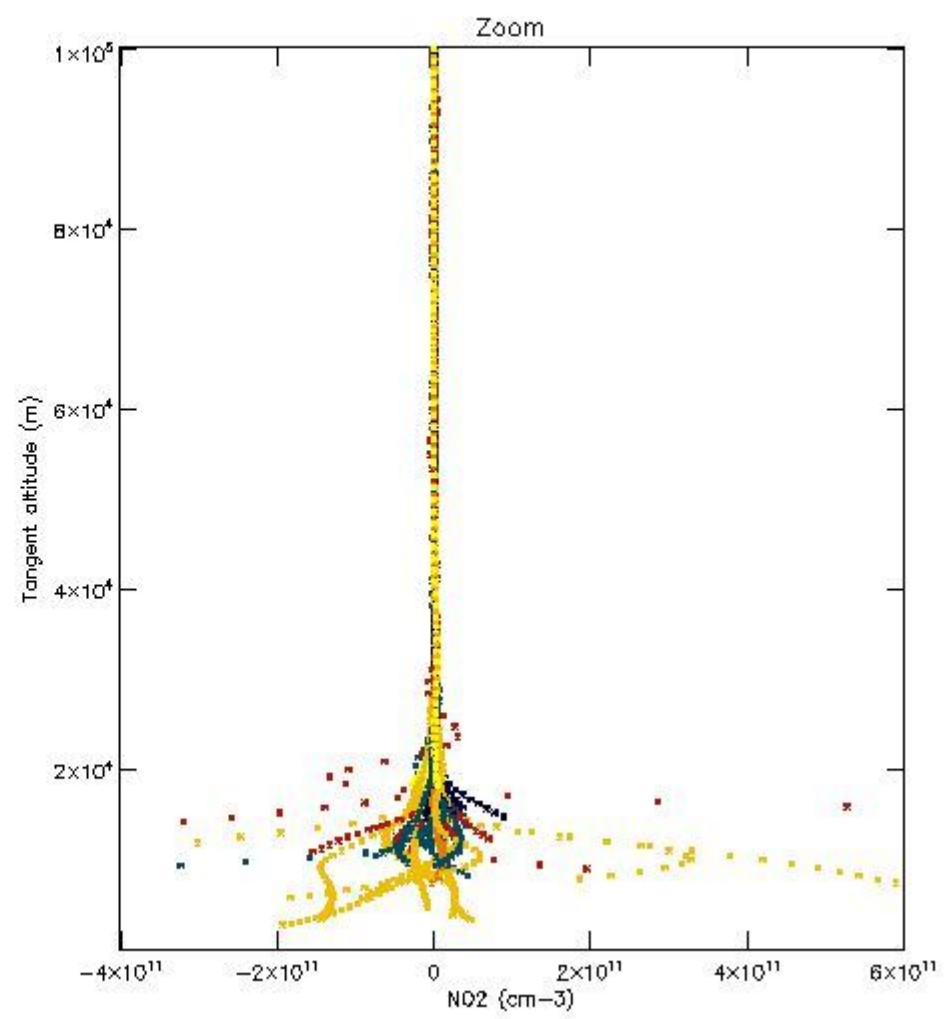
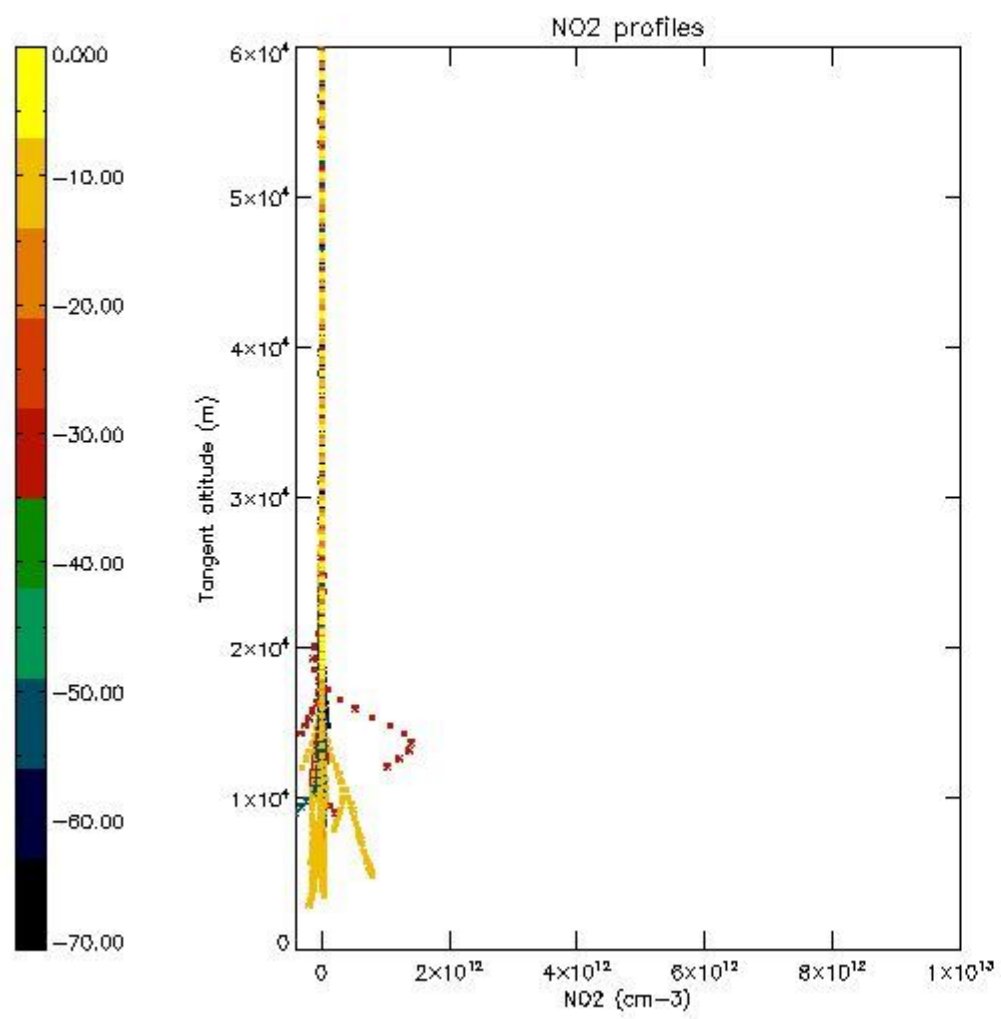
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



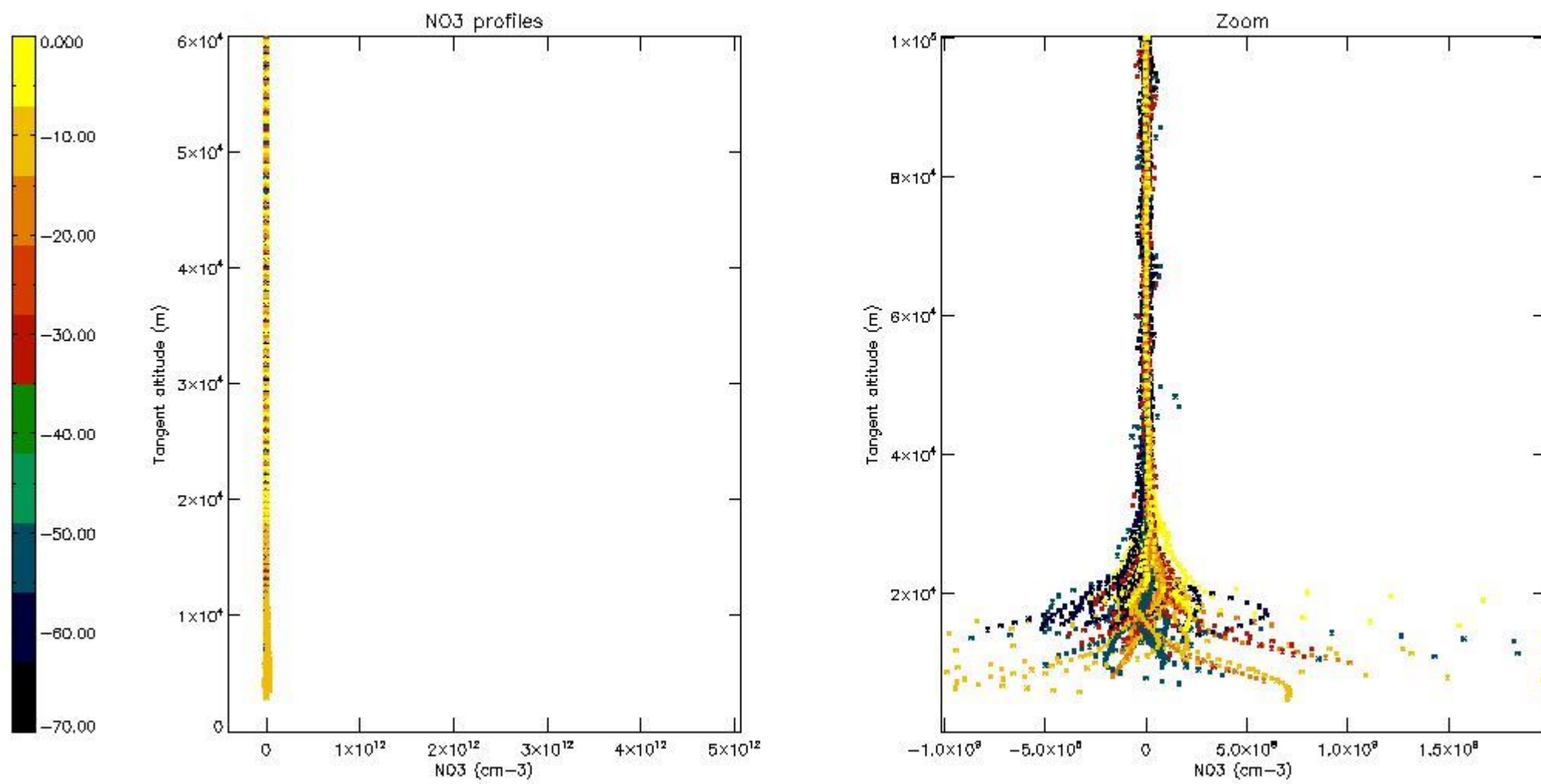
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



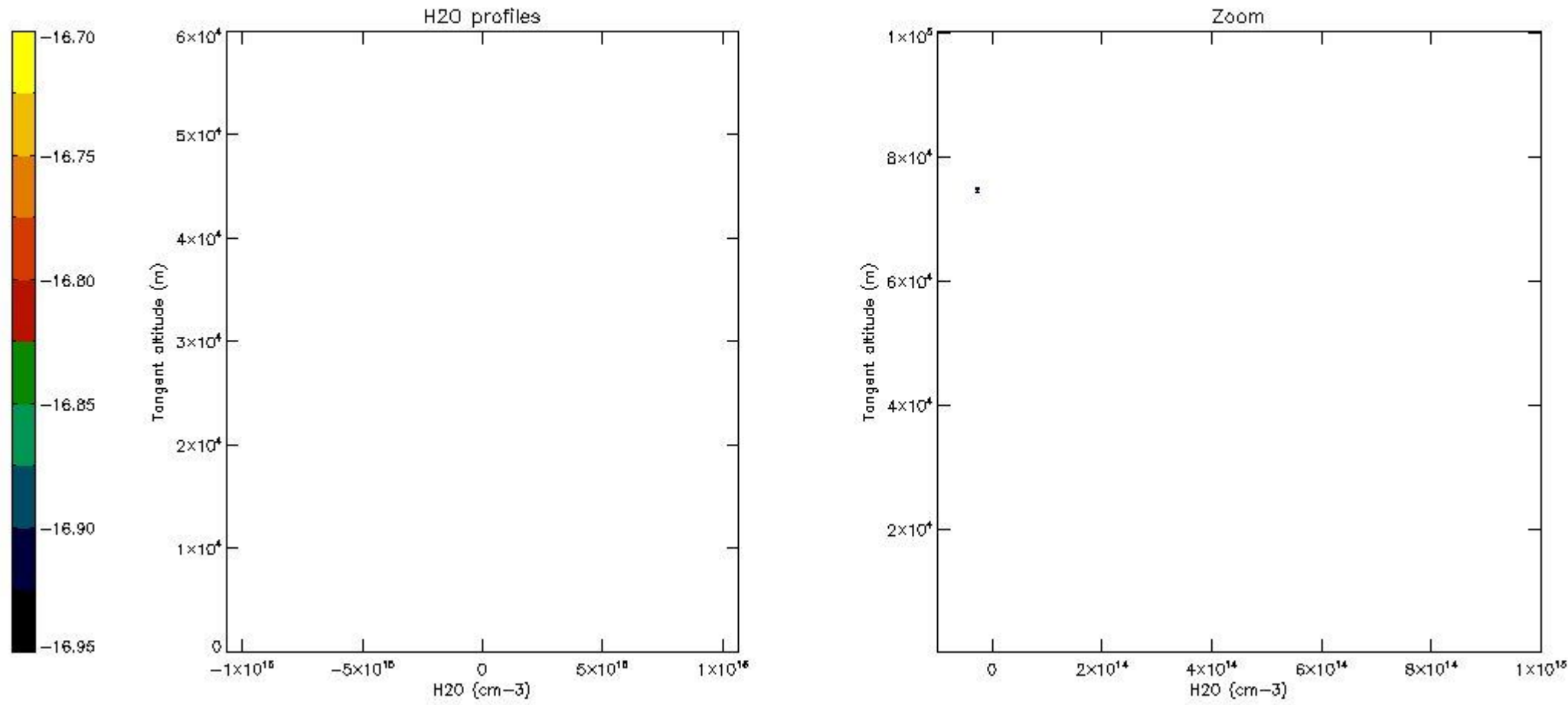
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

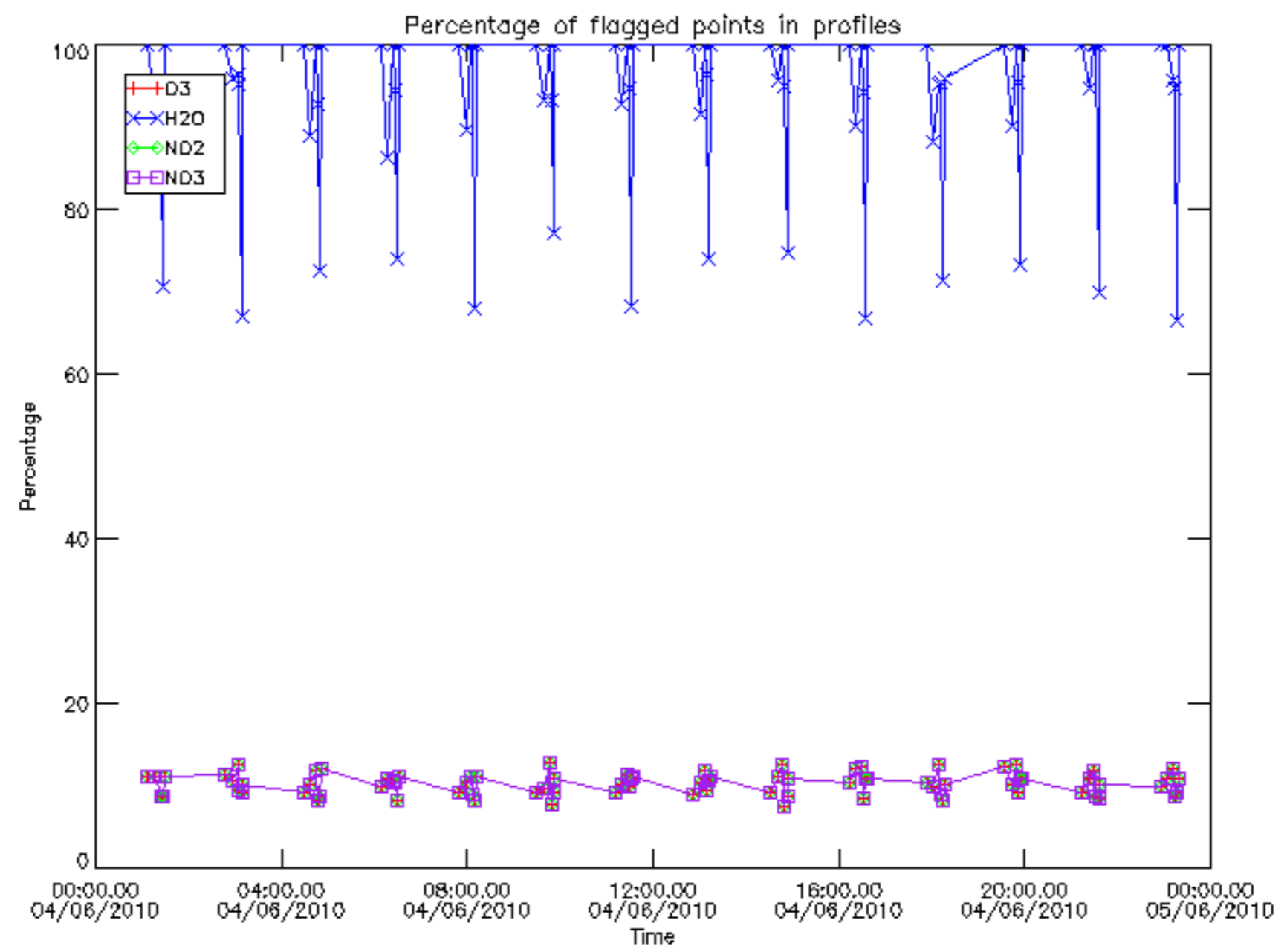
The colorbar represents the latitude.



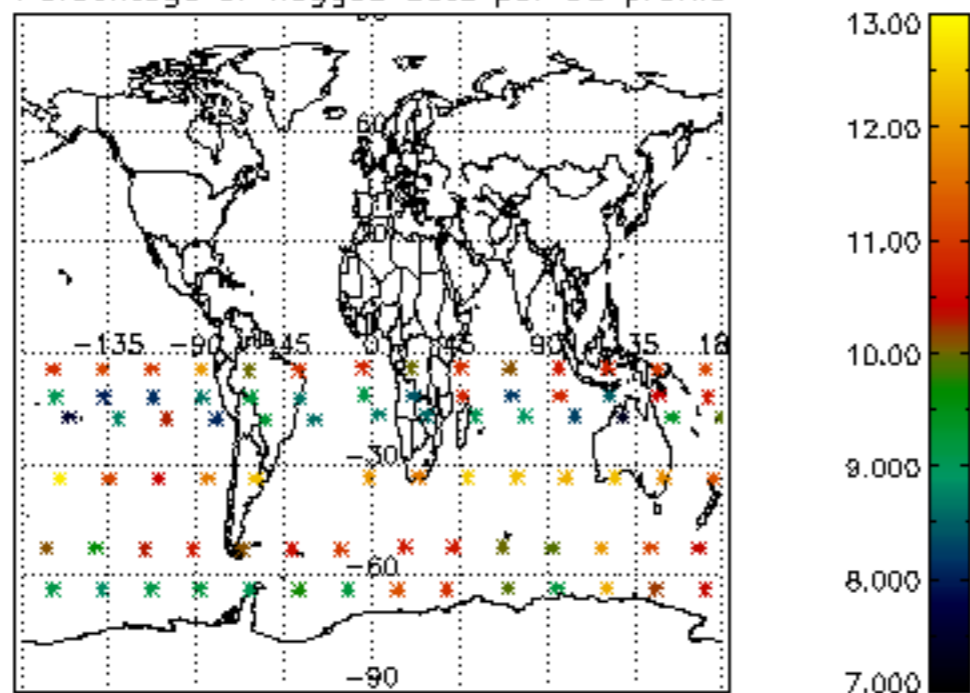
6. Auxiliary Data Files used for the production reported in section 2

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.

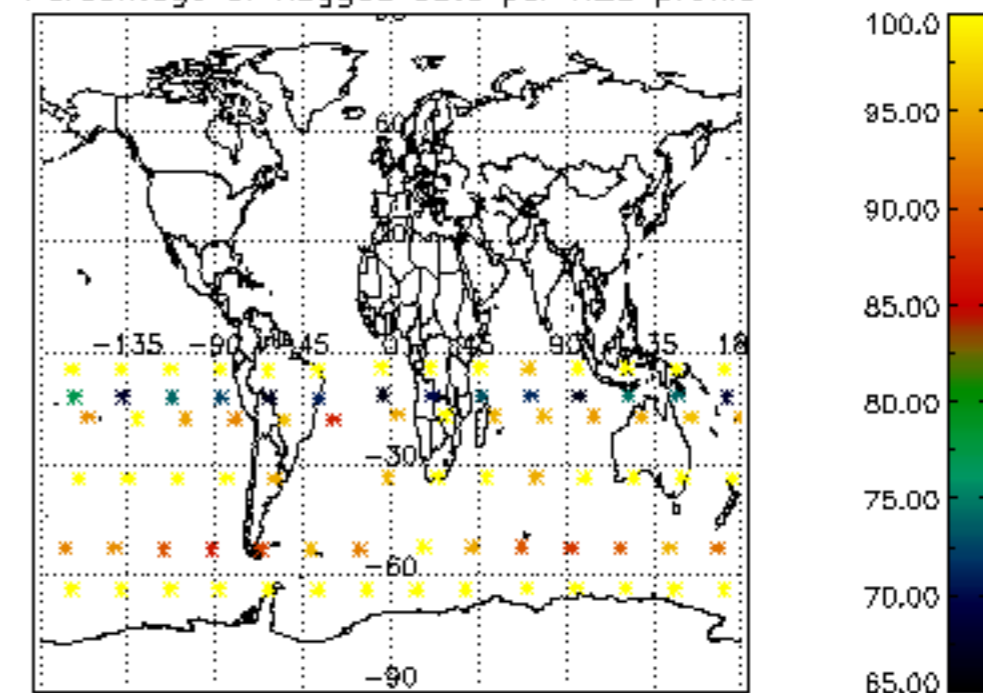
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	04-JUN-2010 00:01:32
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-JUN-2010 00:01:32
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-JUN-2010 00:01:32



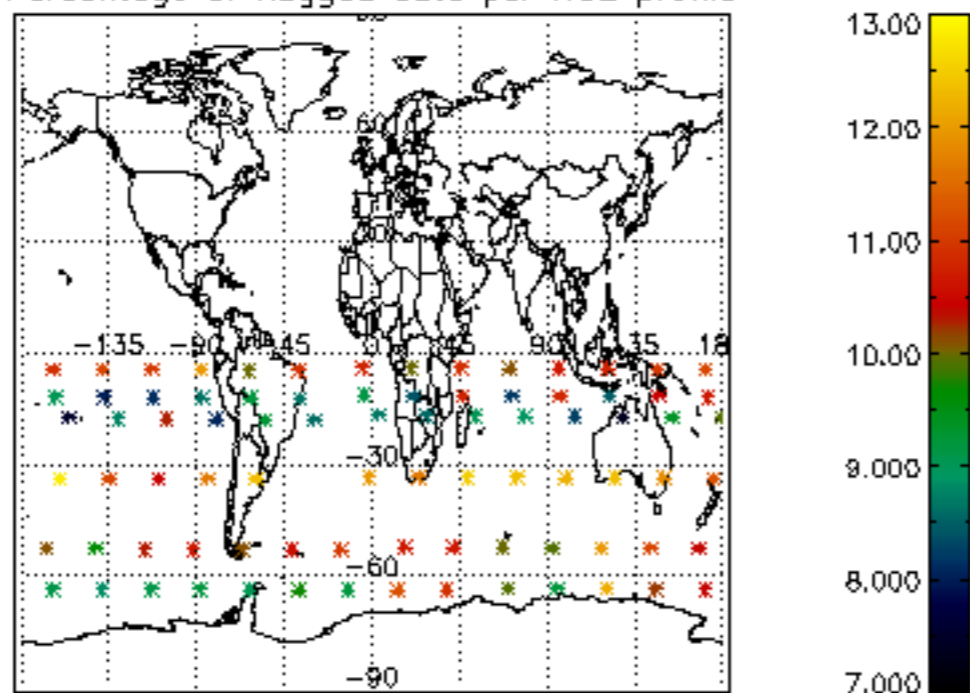
Percentage of flagged data per D3 profile



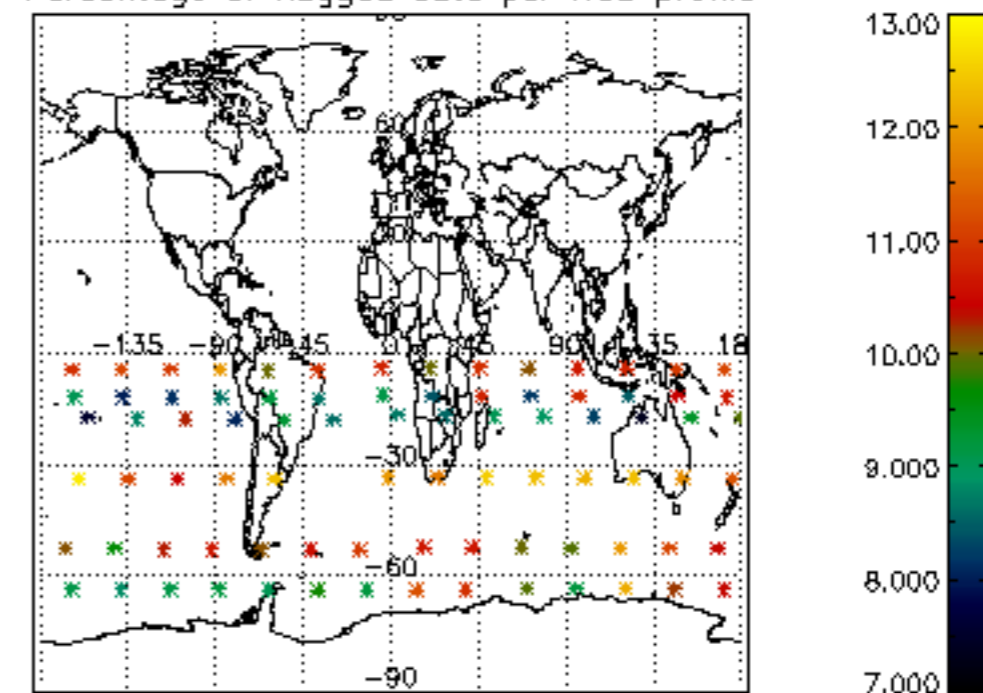
Percentage of flagged data per H2O profile

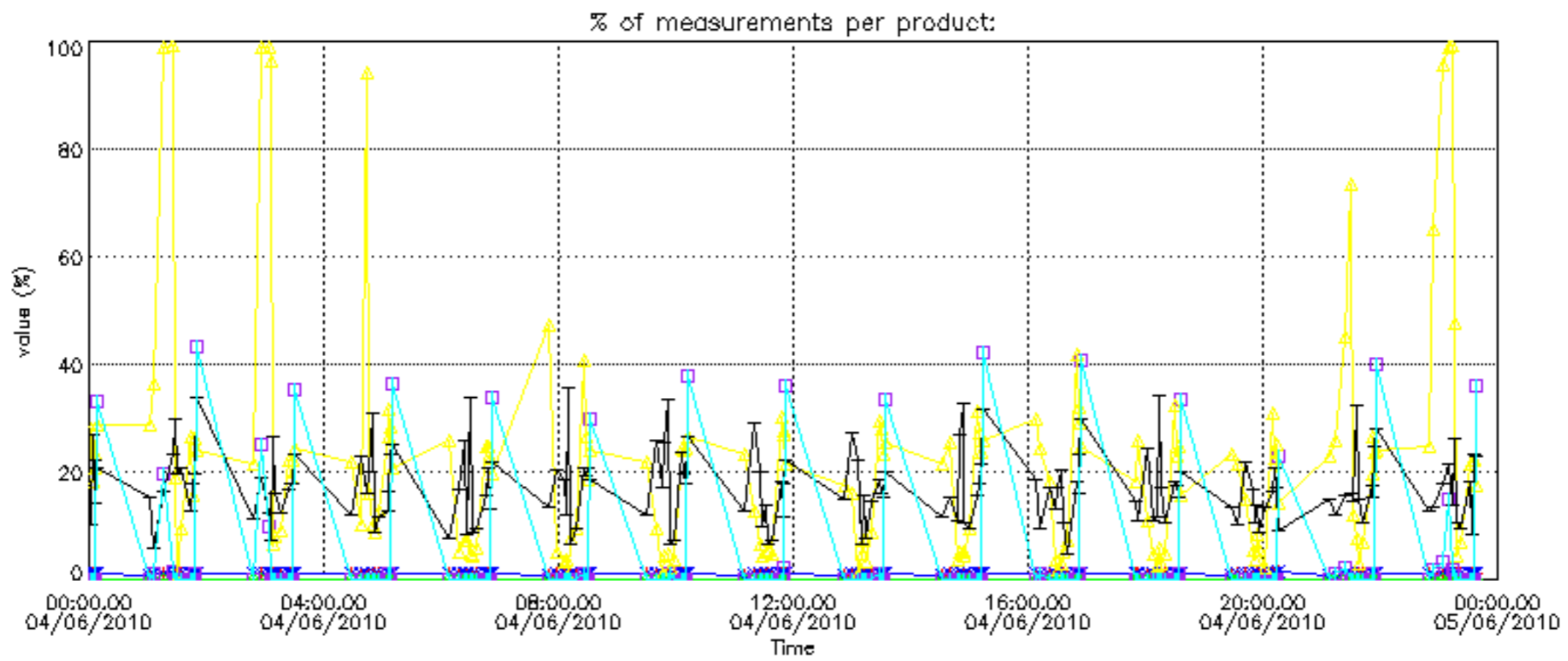


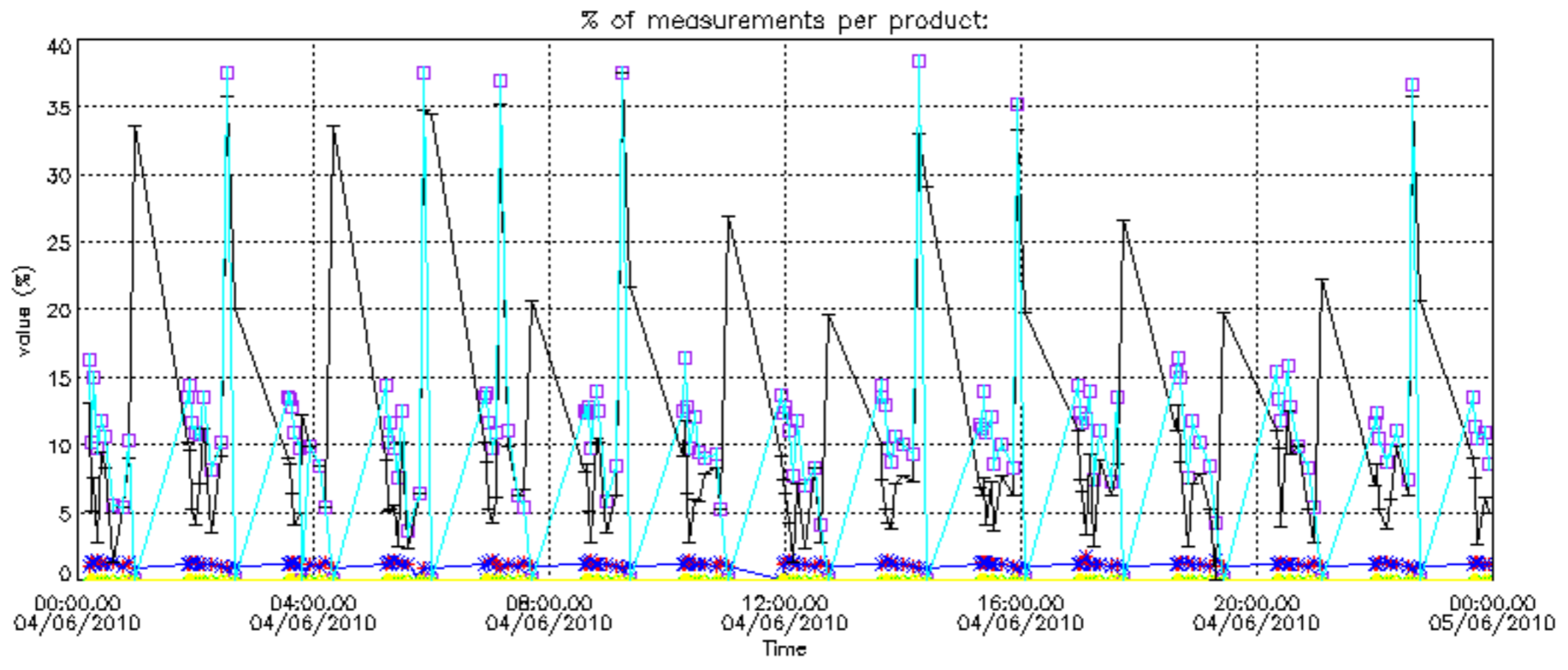
Percentage of flagged data per NO2 profile



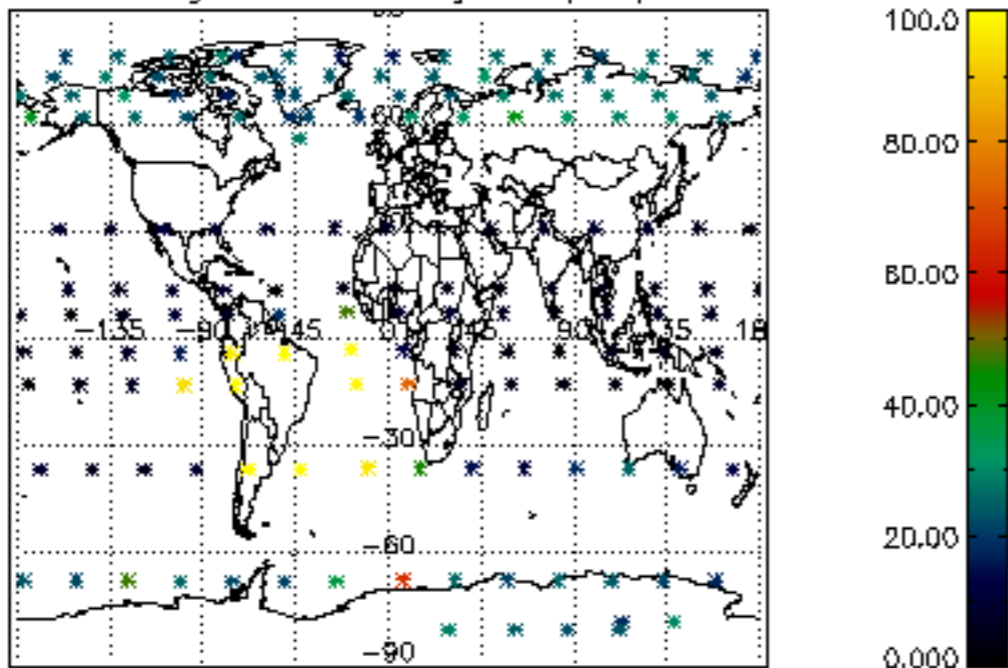
Percentage of flagged data per NO3 profile



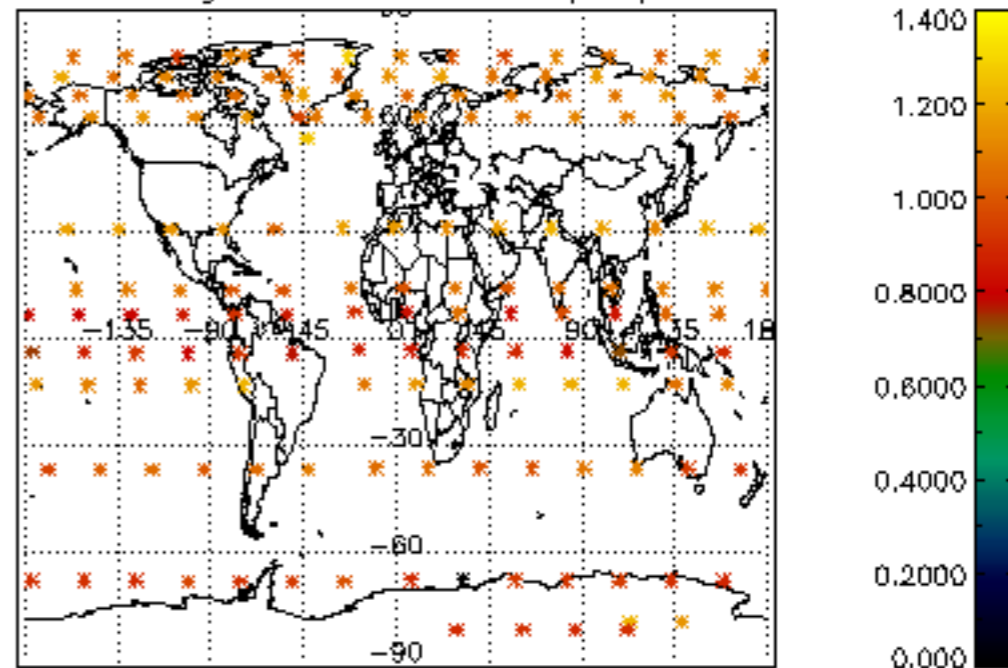




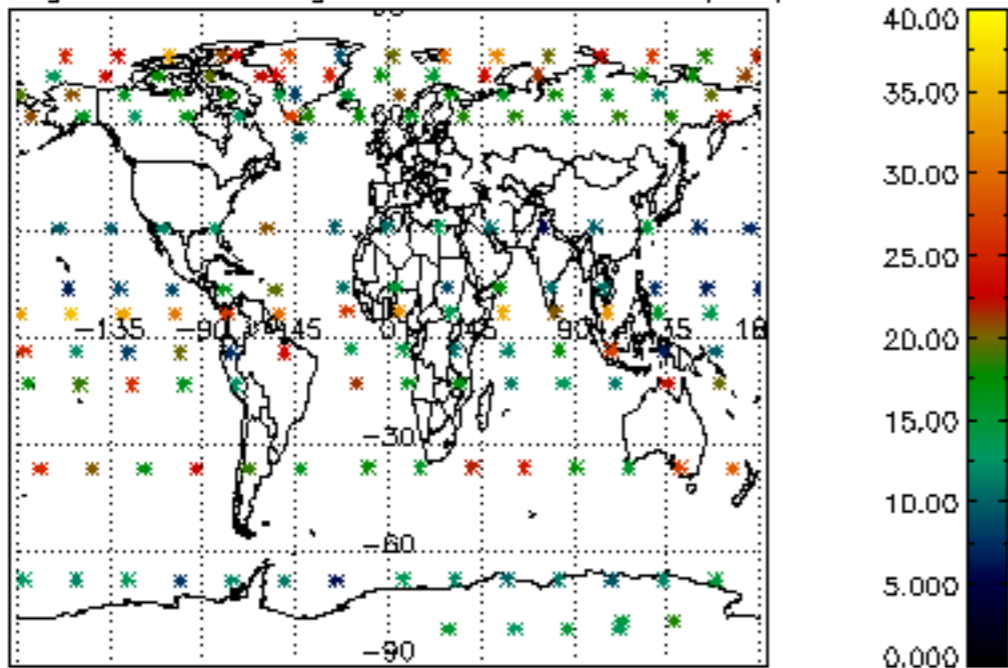
Percentage of cosmic ray hits per profile



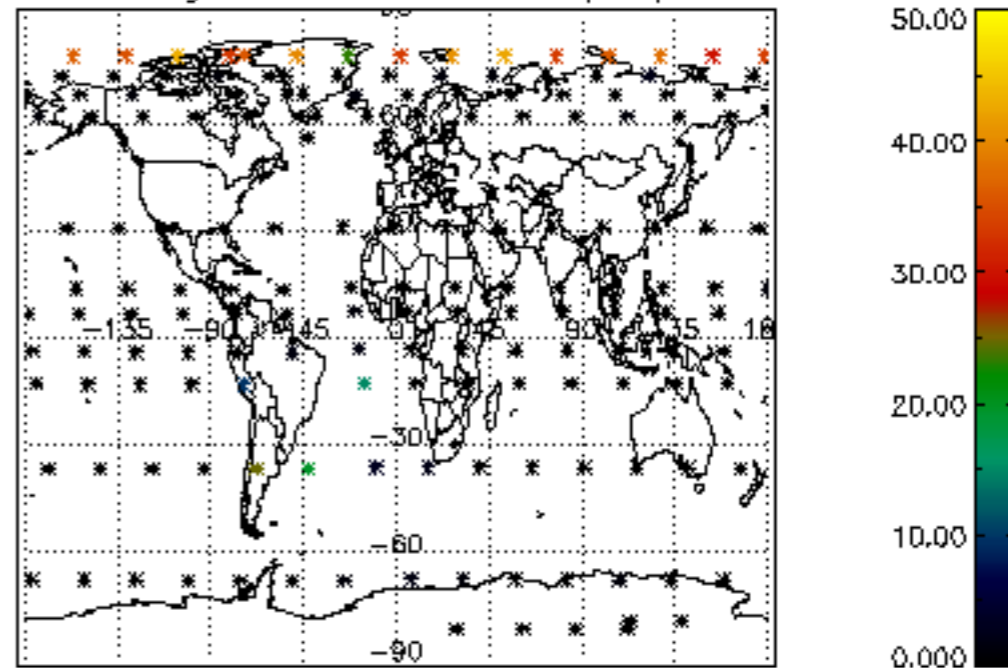
Percentage of datation errors per profile



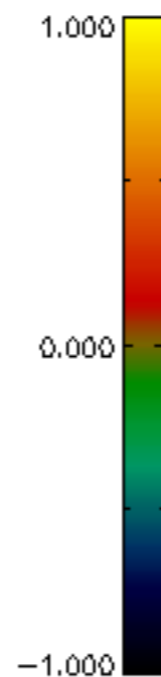
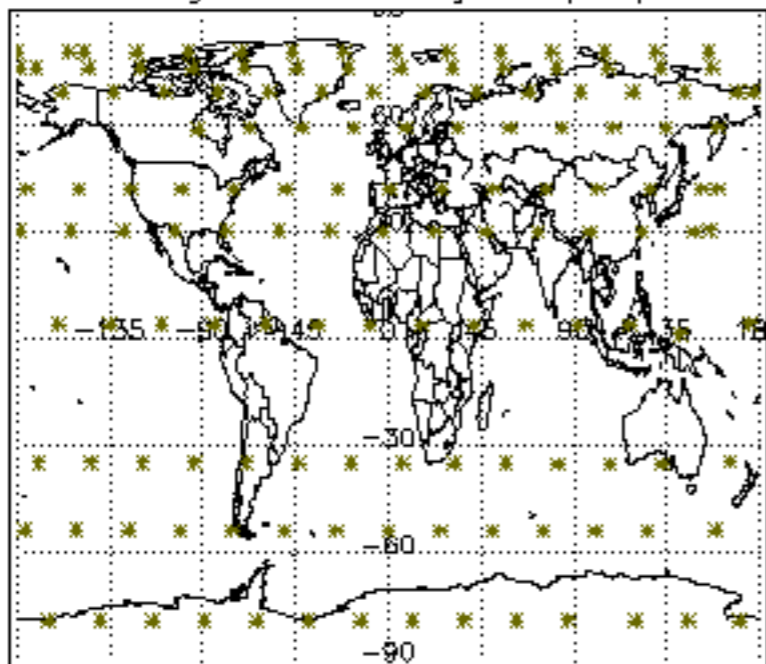
Percentage of star falling outside central band per profile



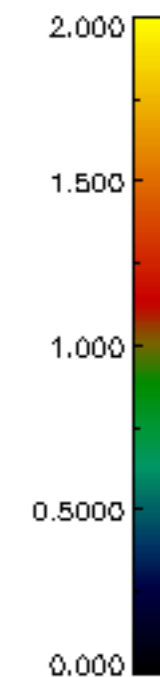
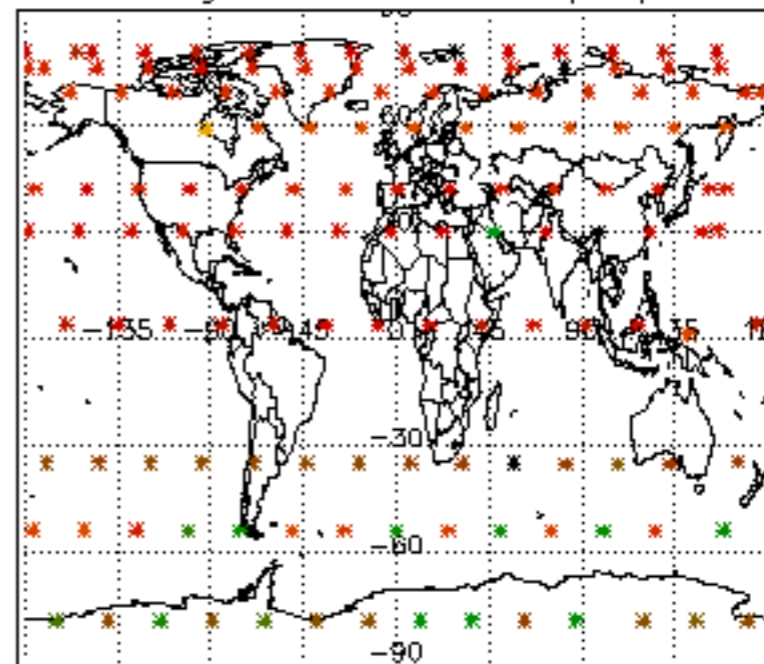
Percentage of saturation errors per profile



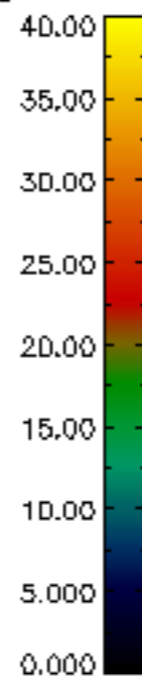
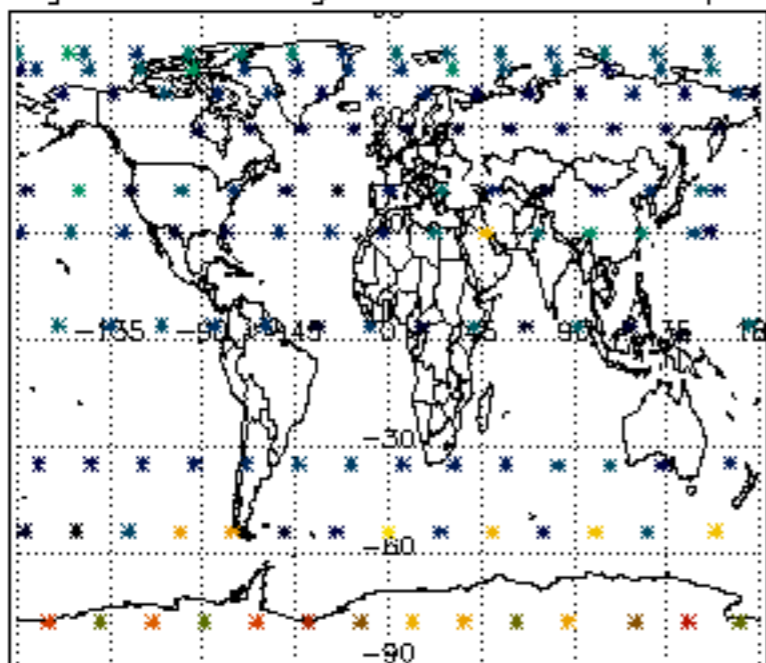
Percentage of cosmic ray hits per profile



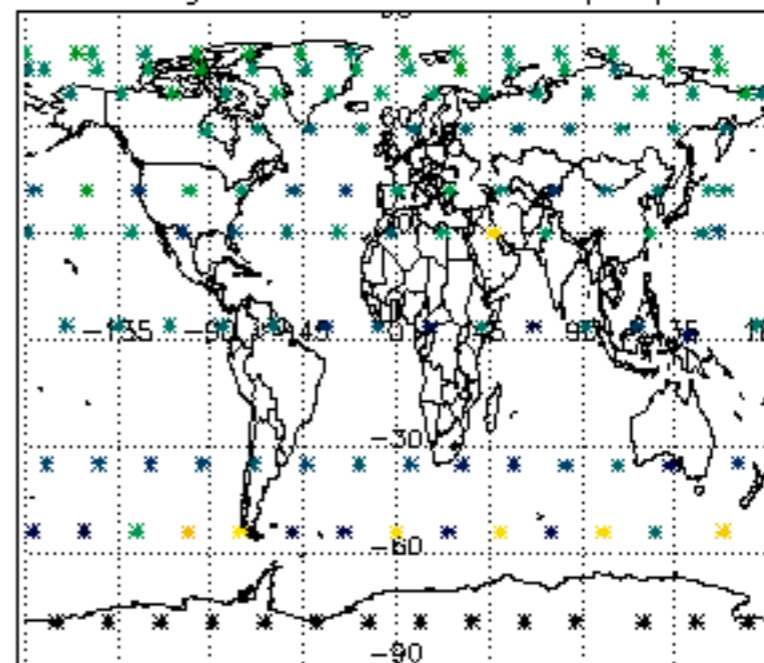
Percentage of datation errors per profile

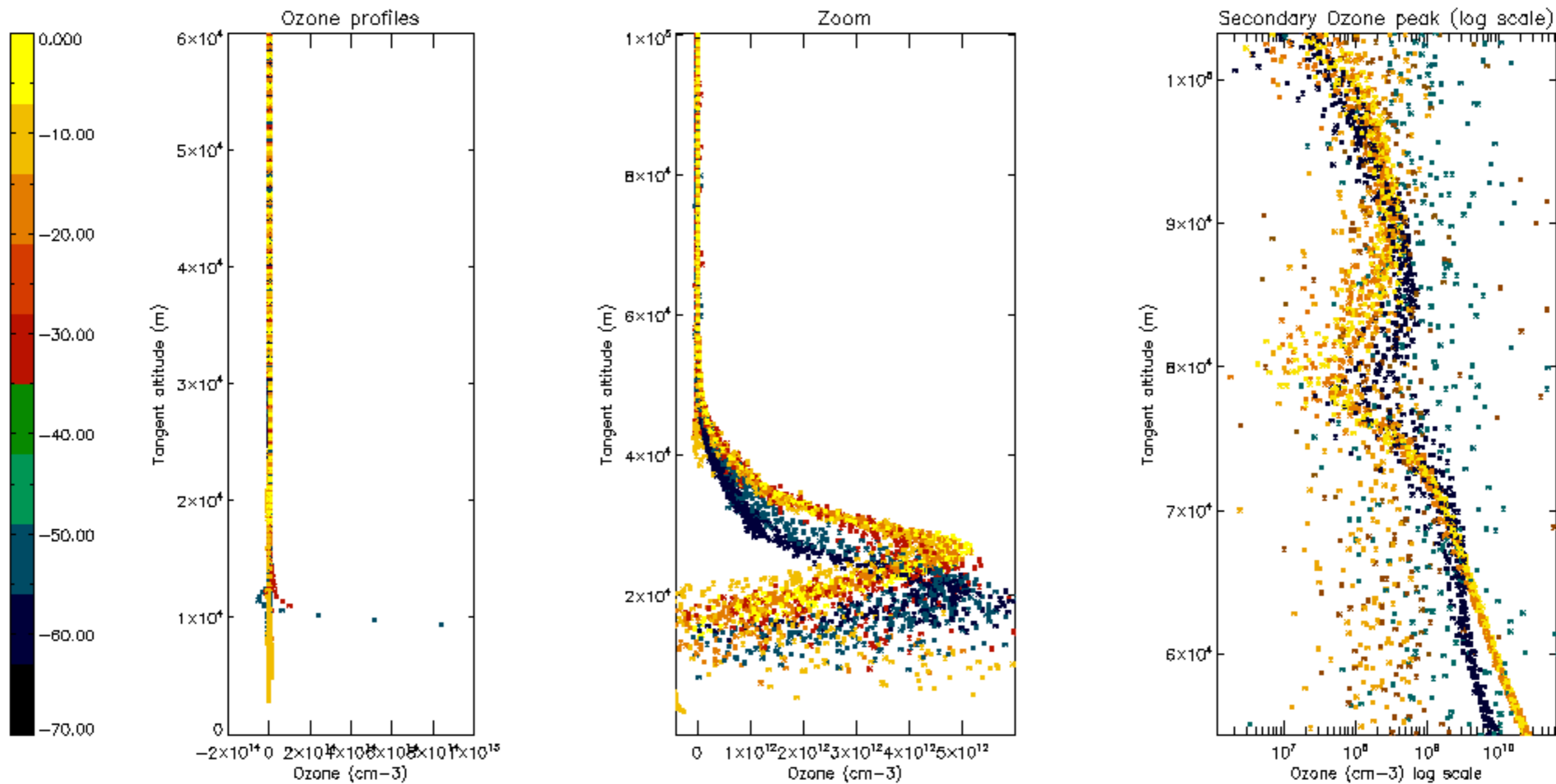


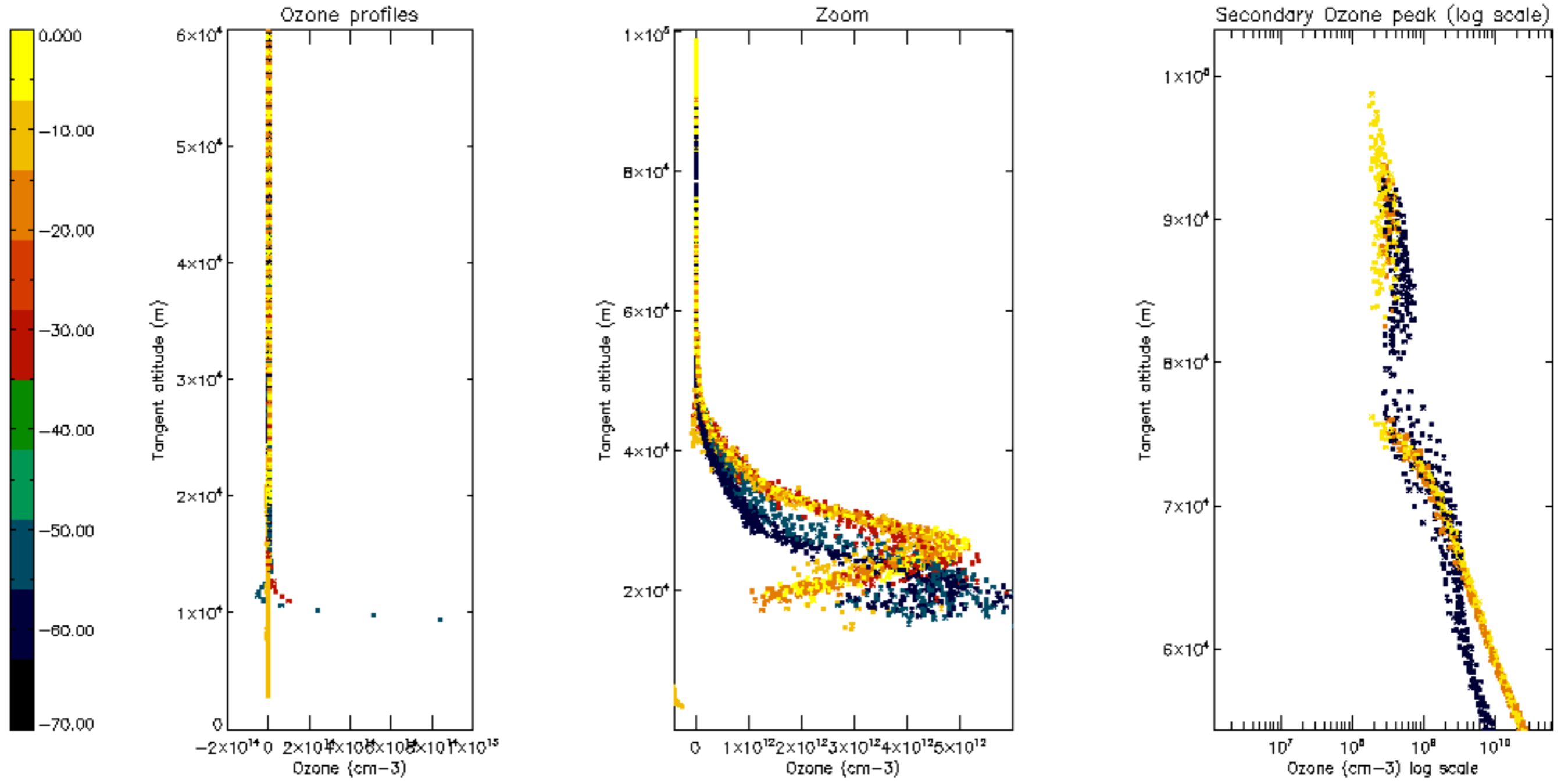
Percentage of star falling outside central band per profile

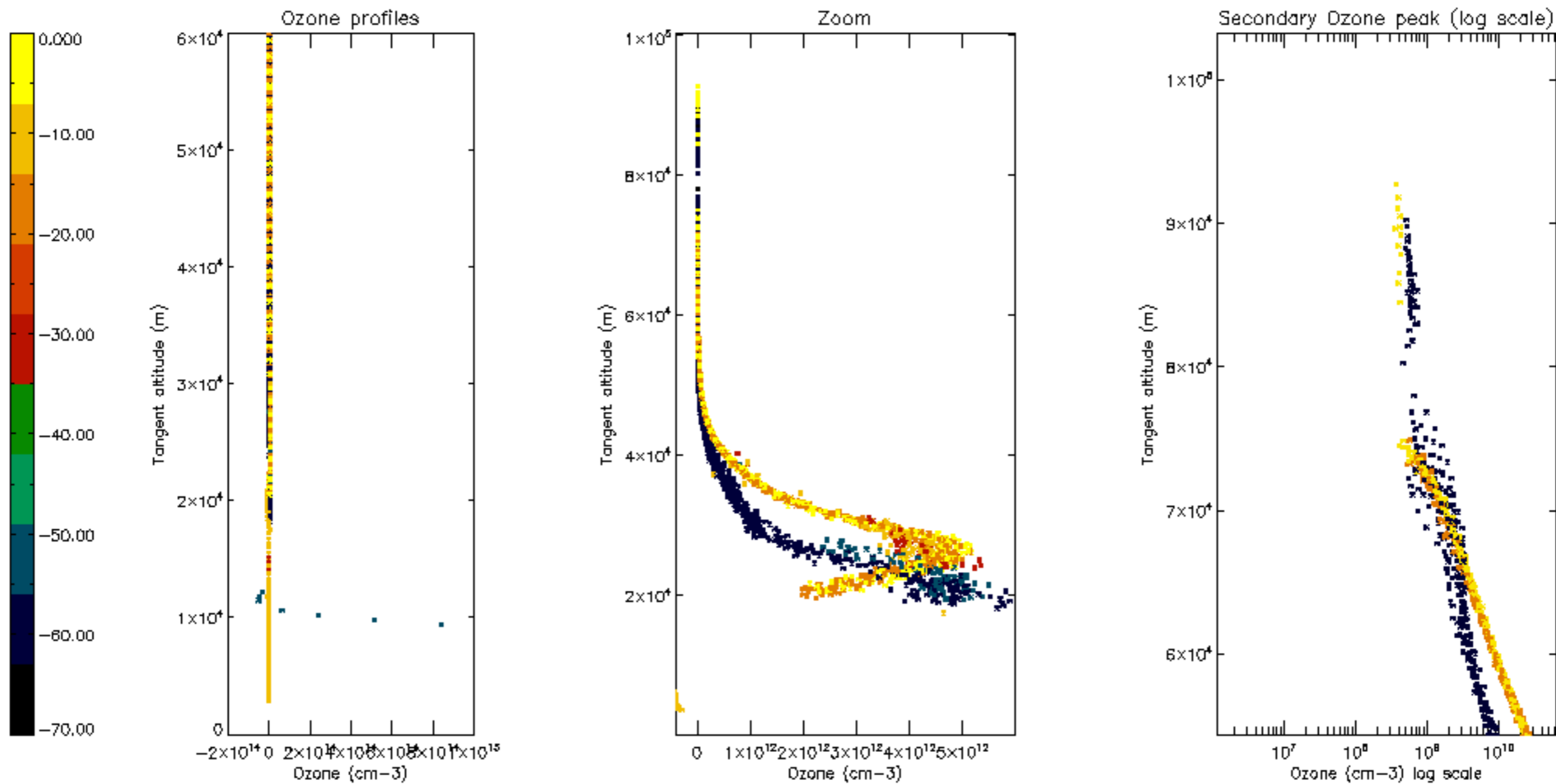


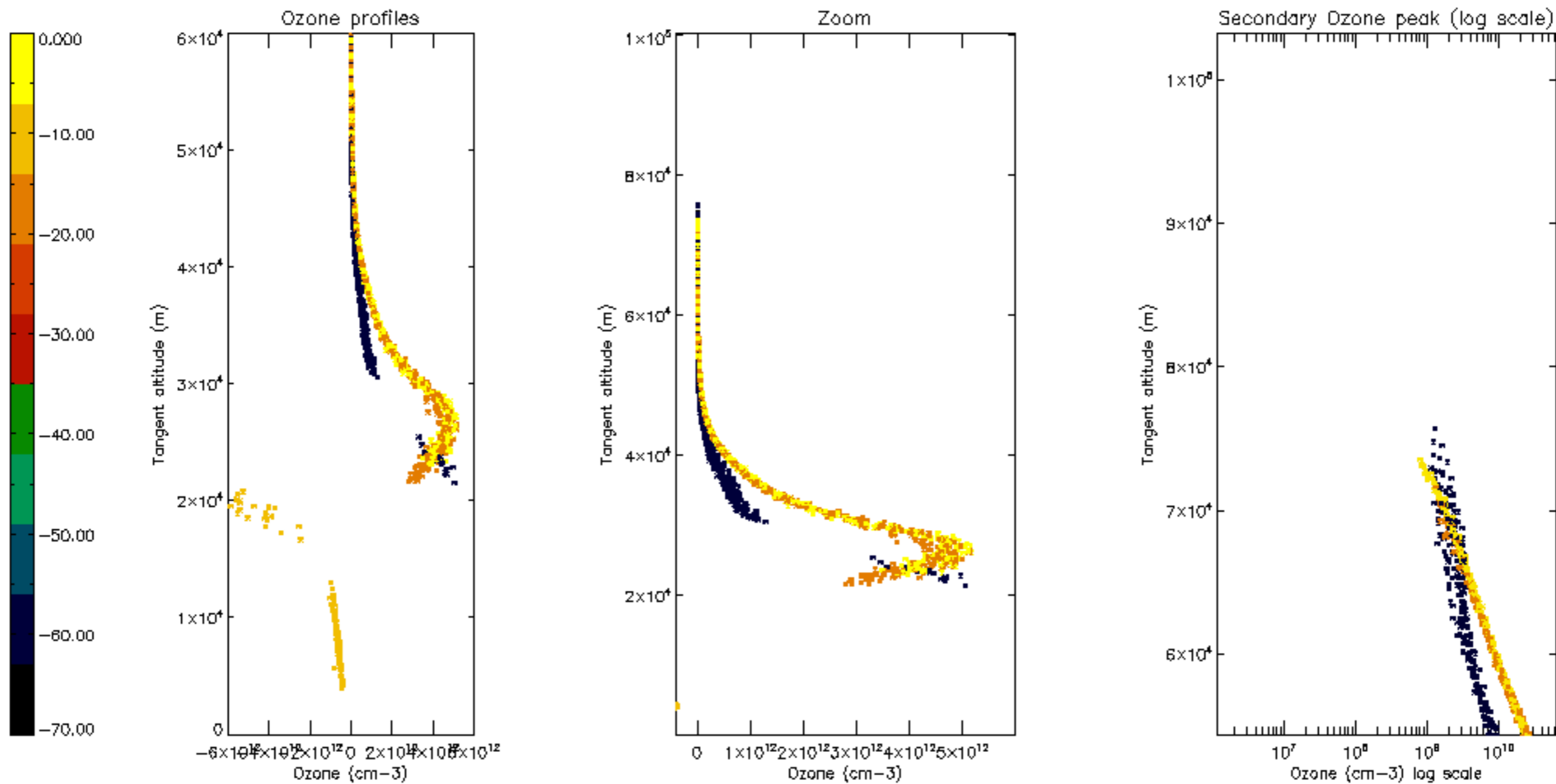
Percentage of saturation errors per profile

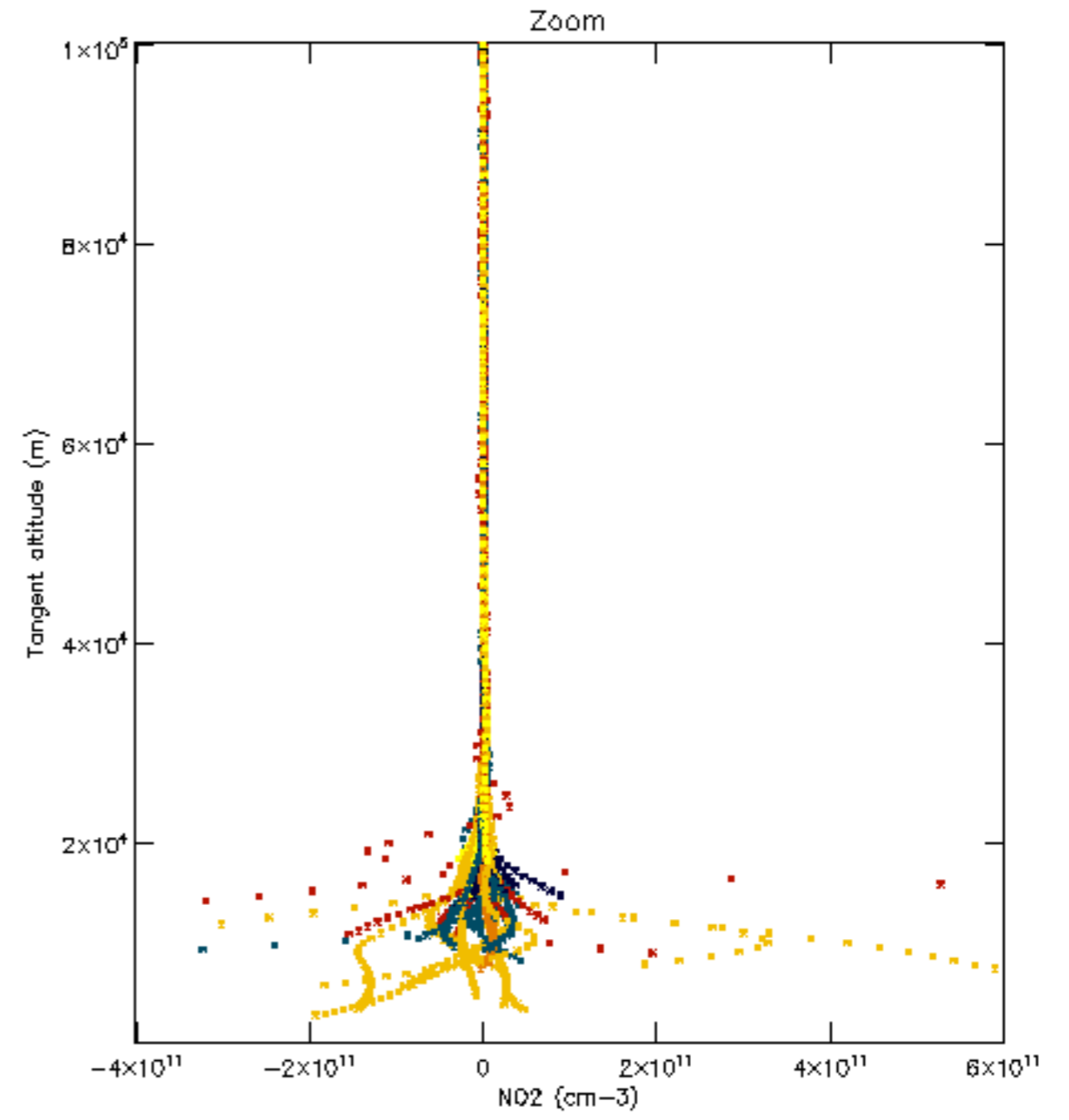
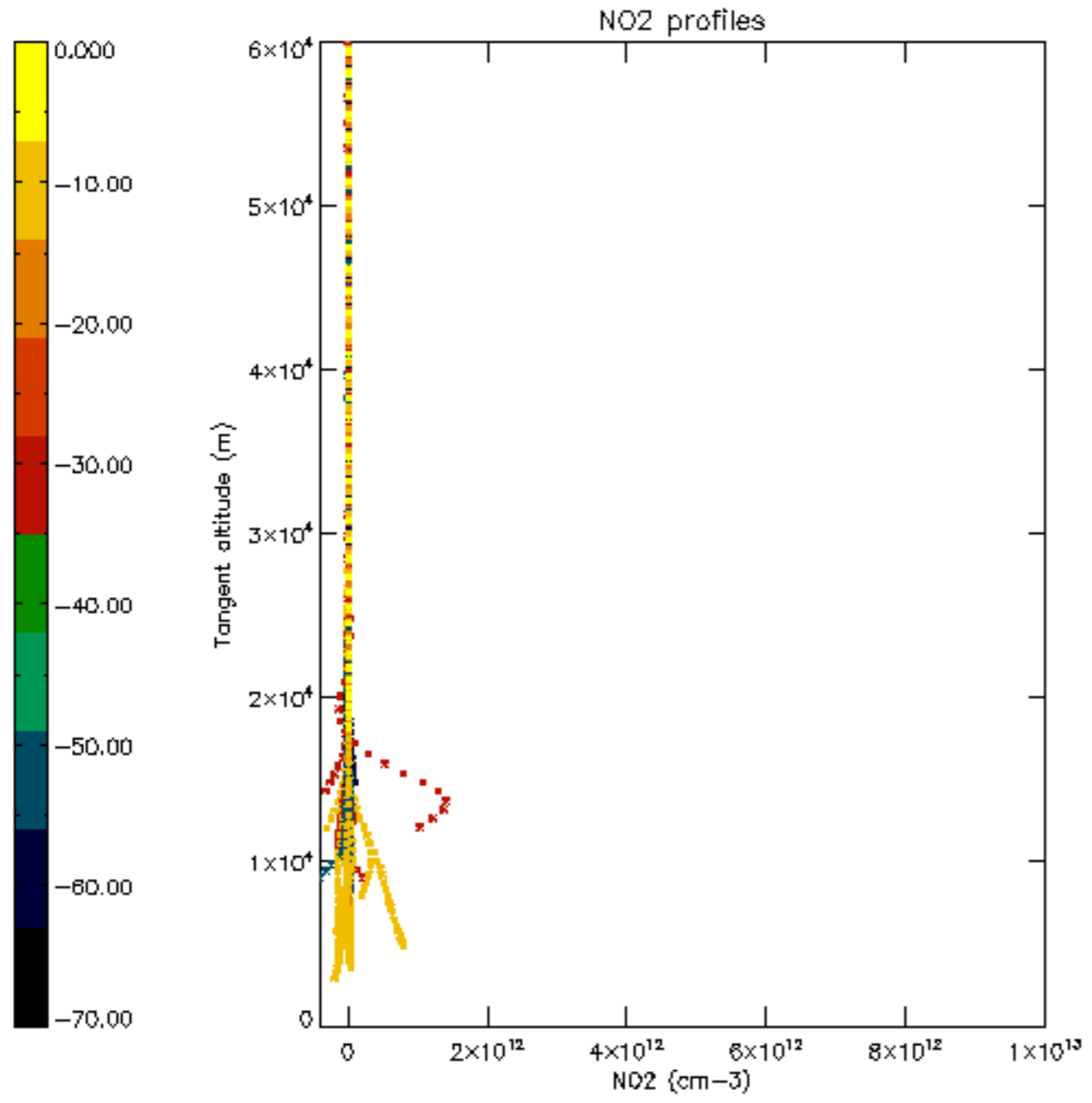


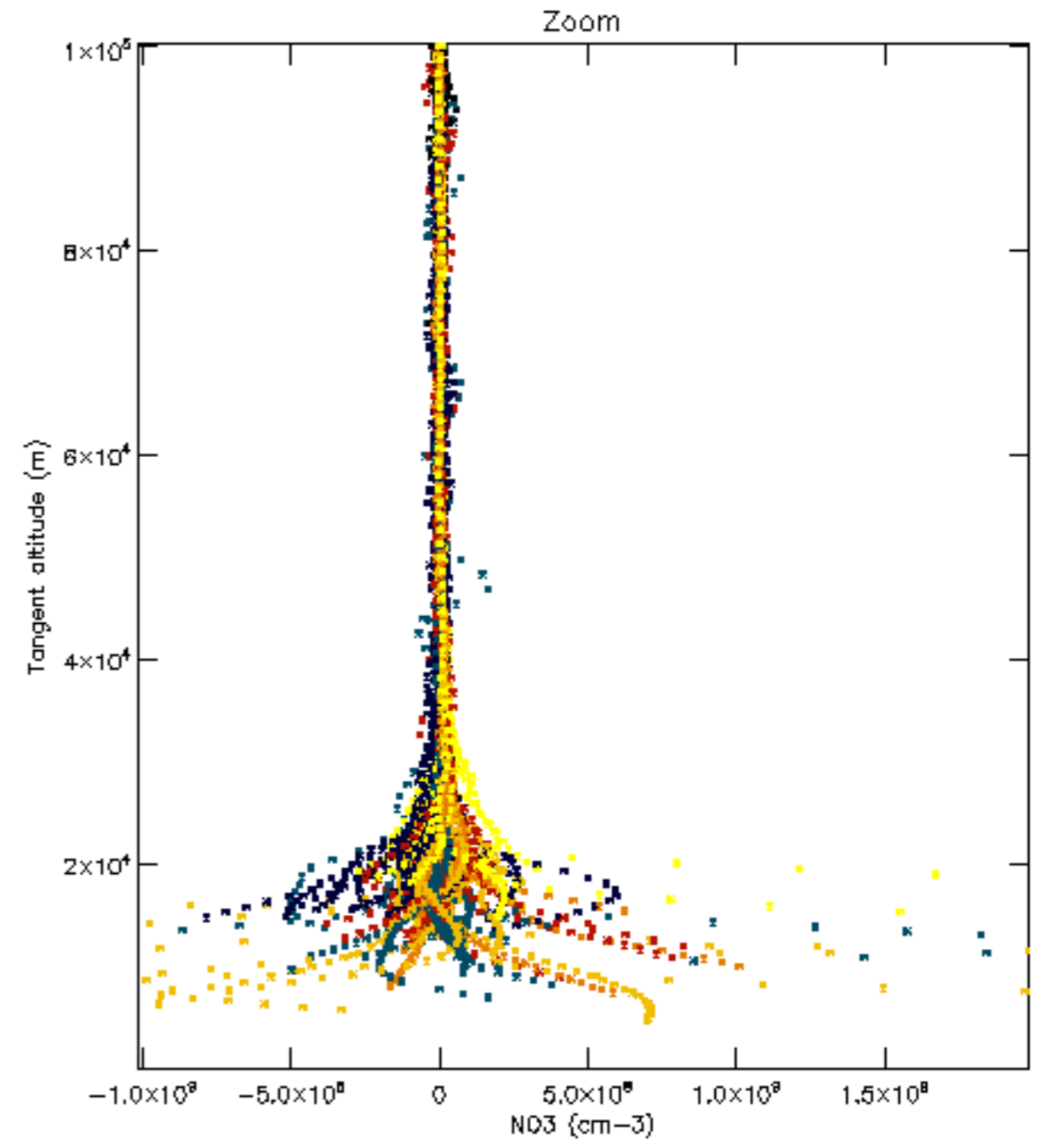
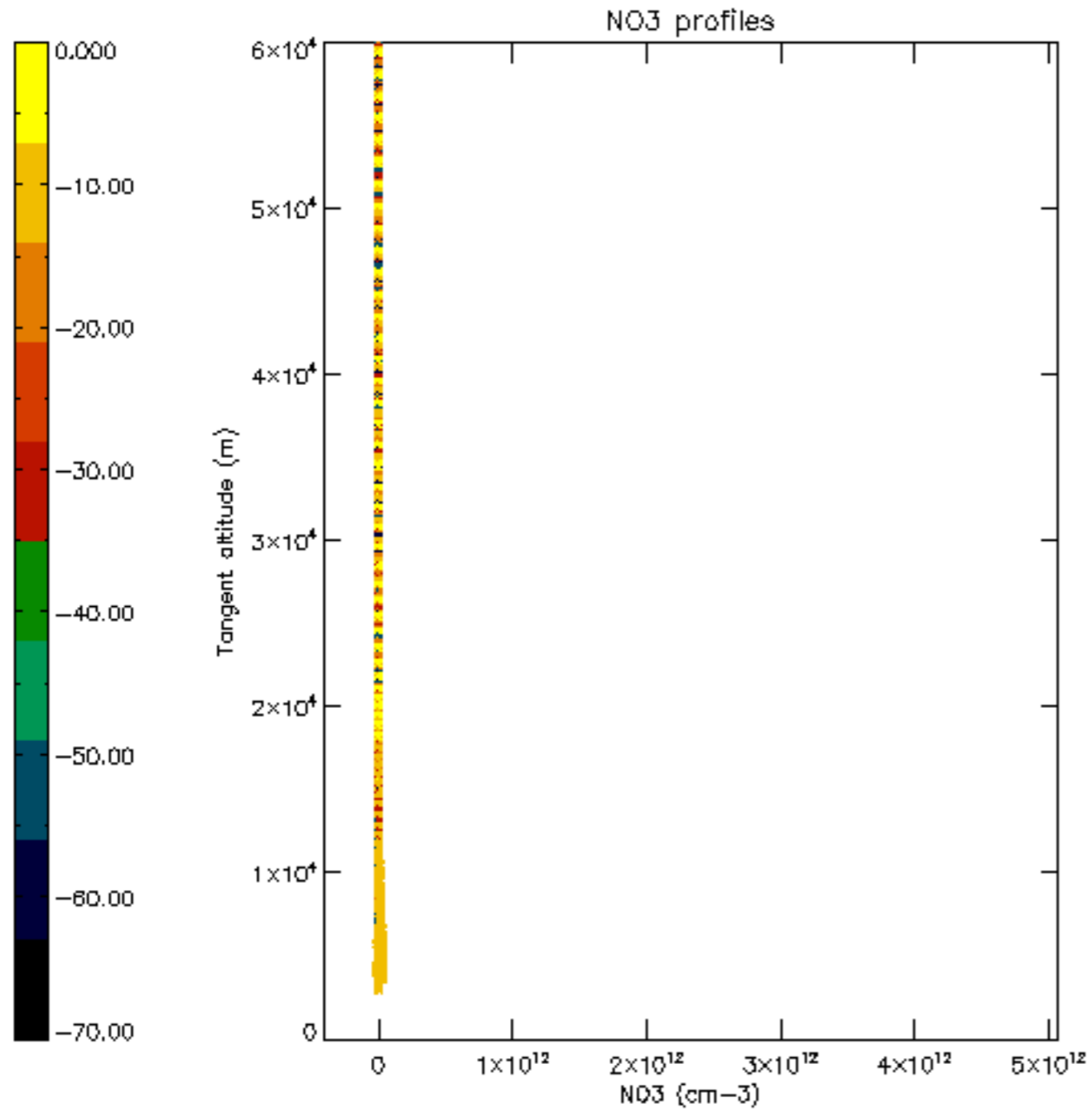


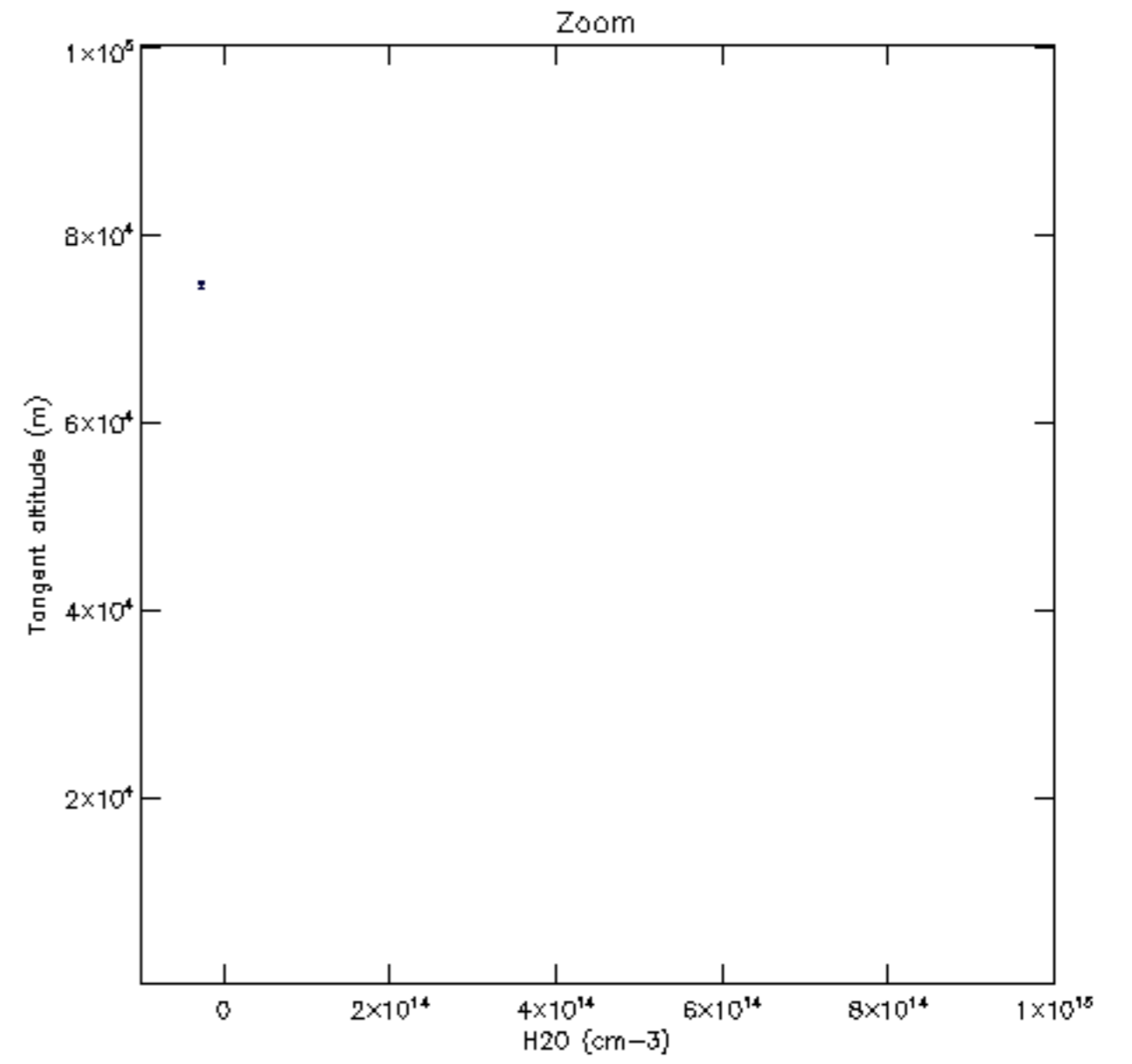
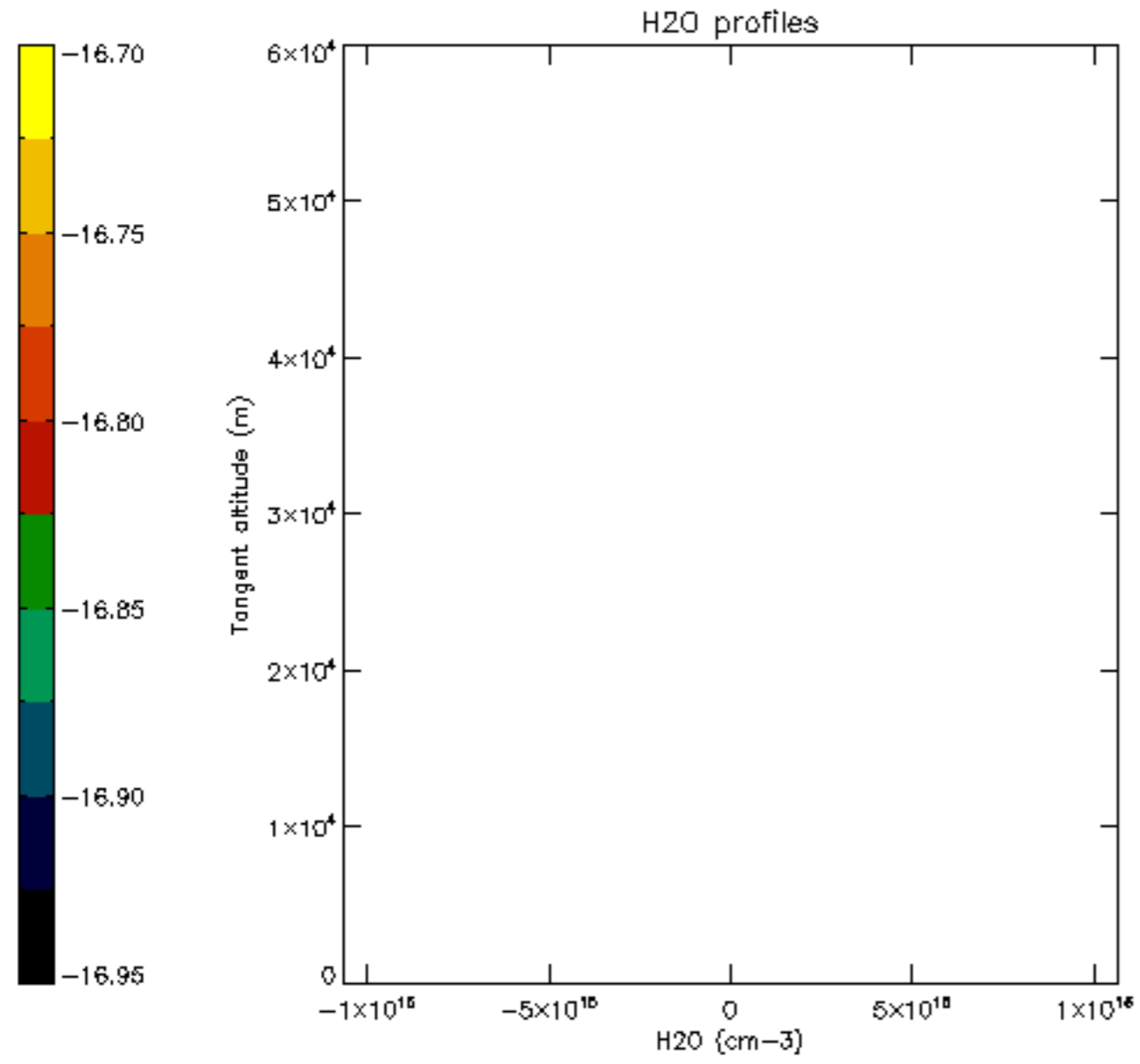


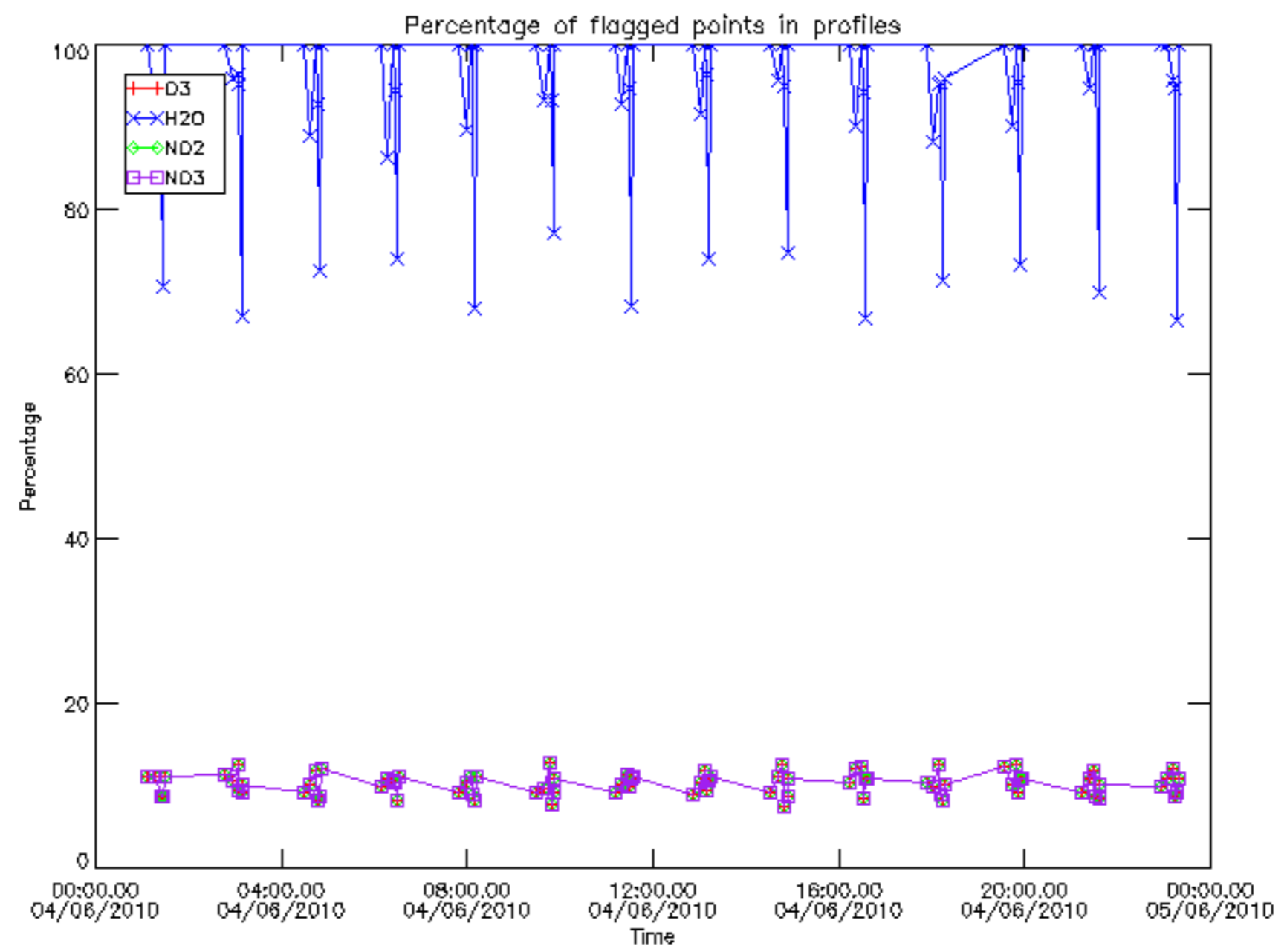




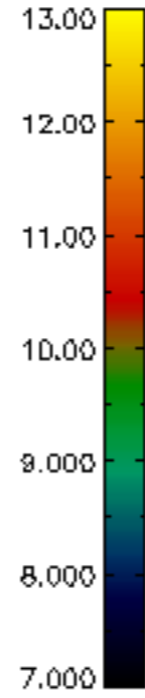
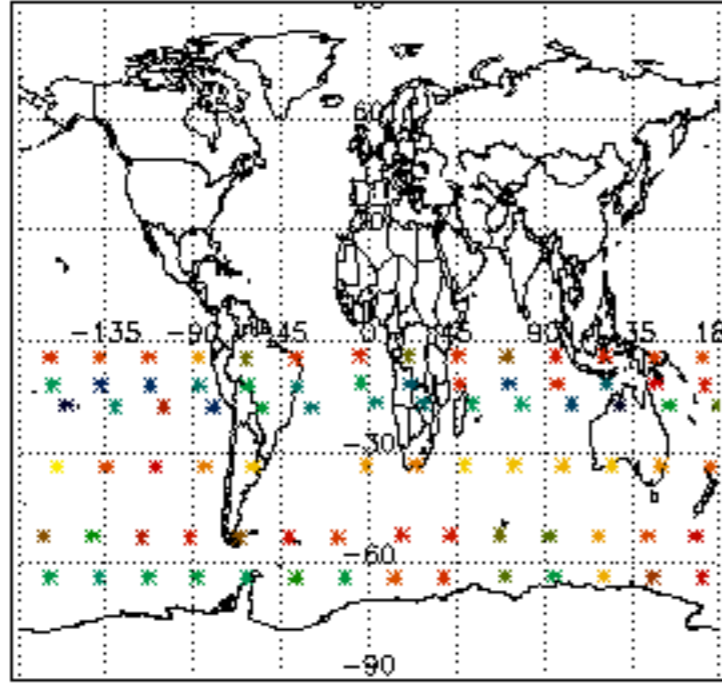




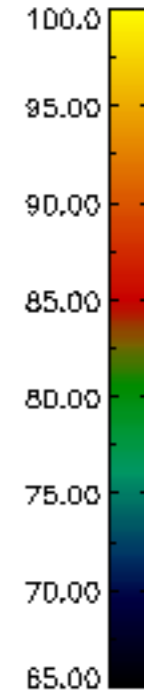
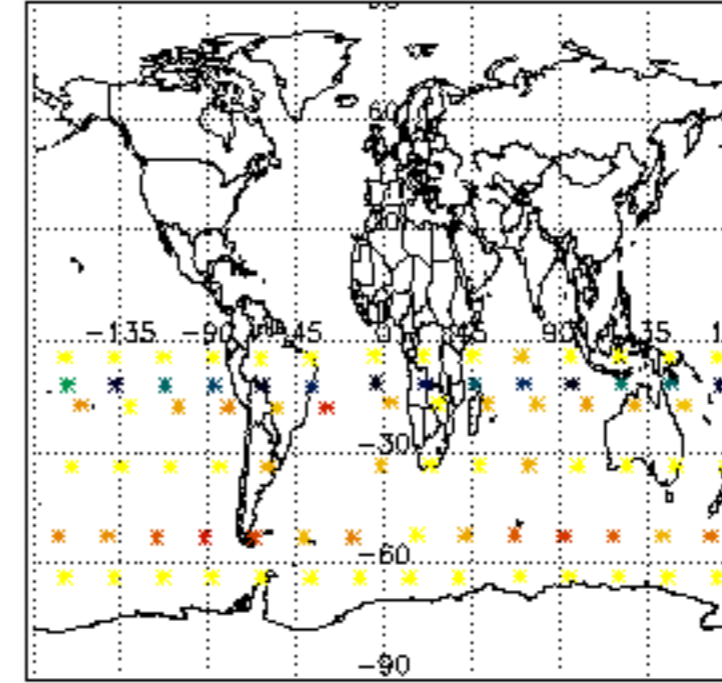




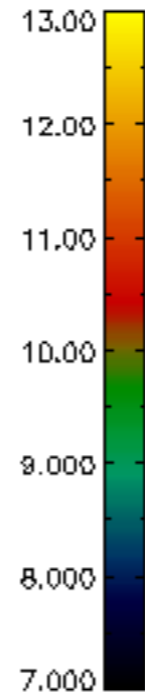
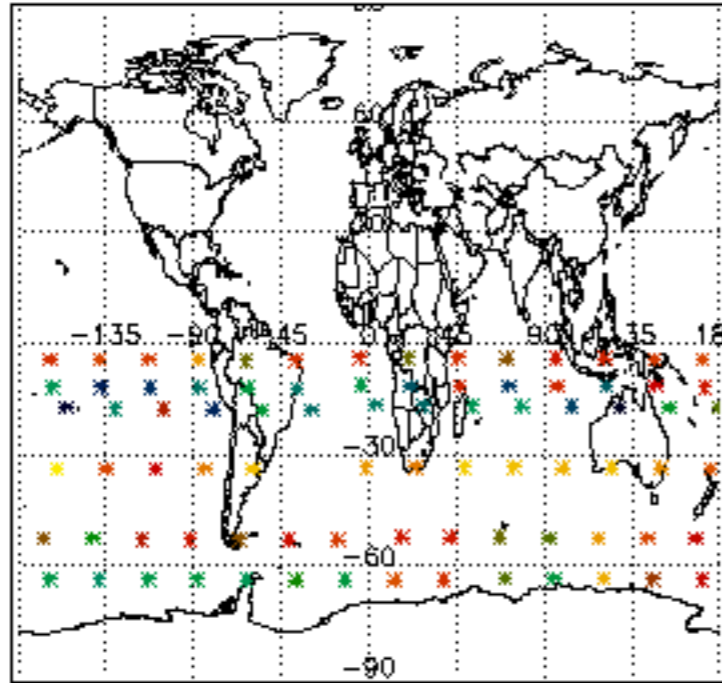
Percentage of flagged data per D3 profile



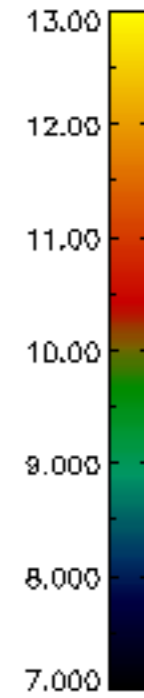
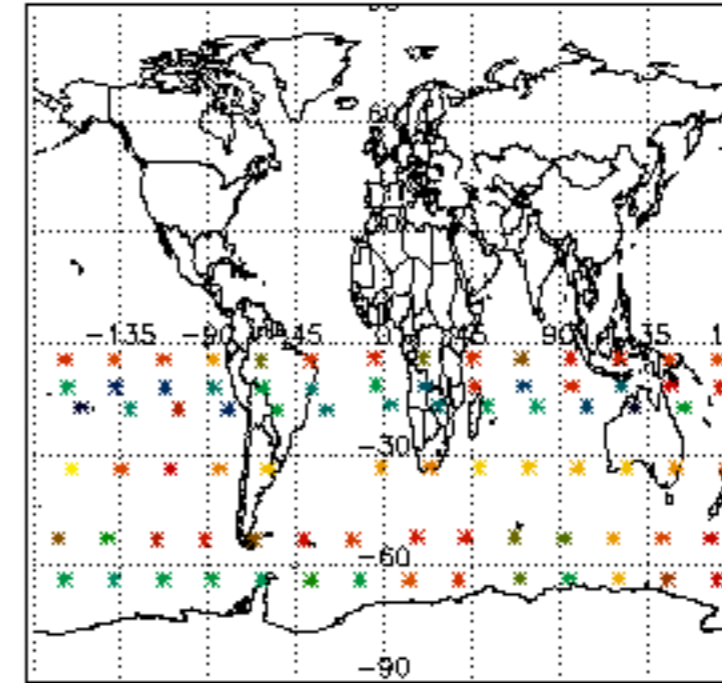
Percentage of flagged data per H2O profile

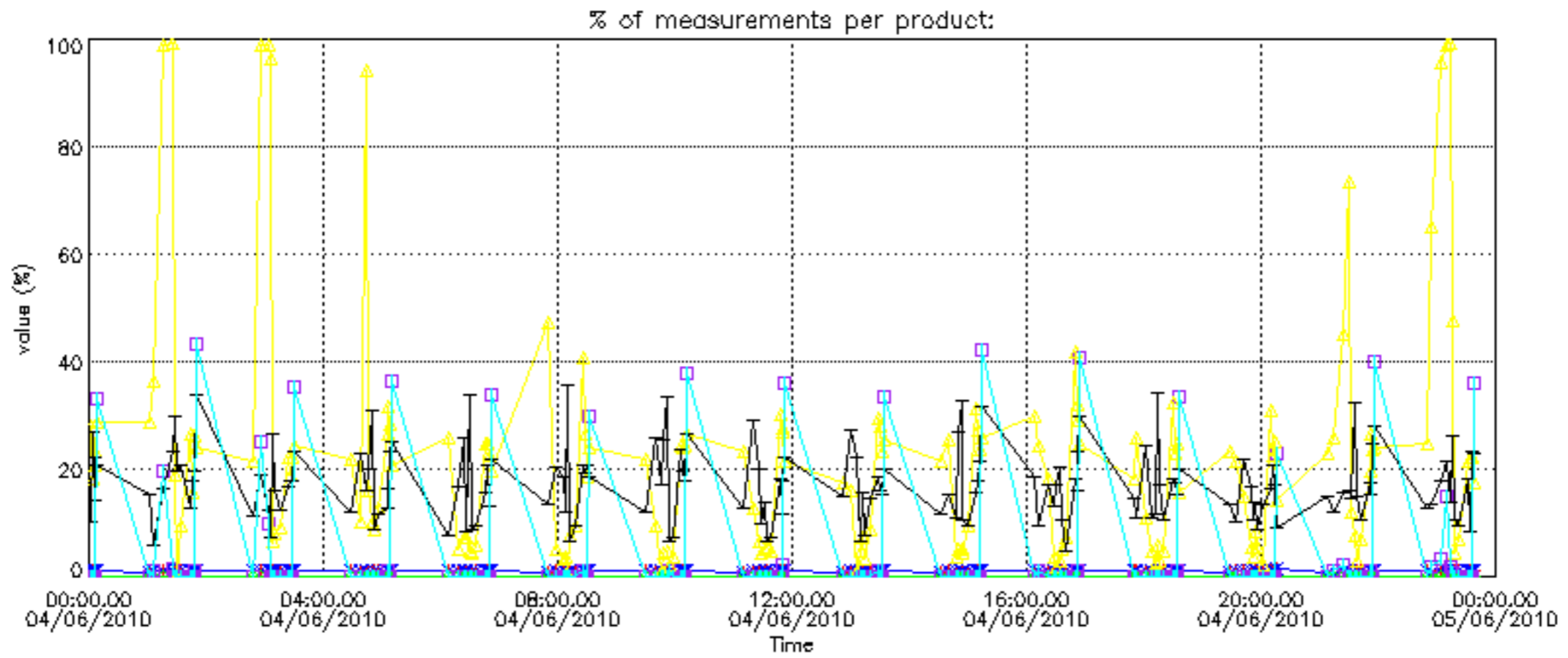
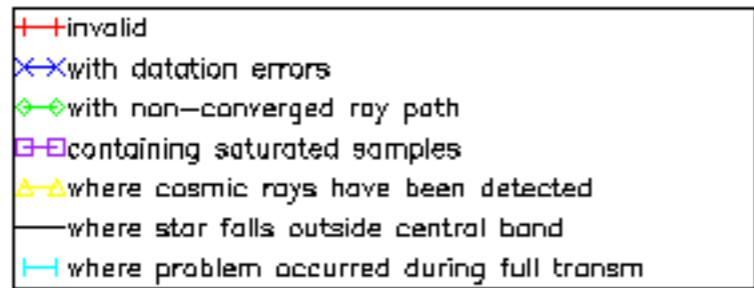


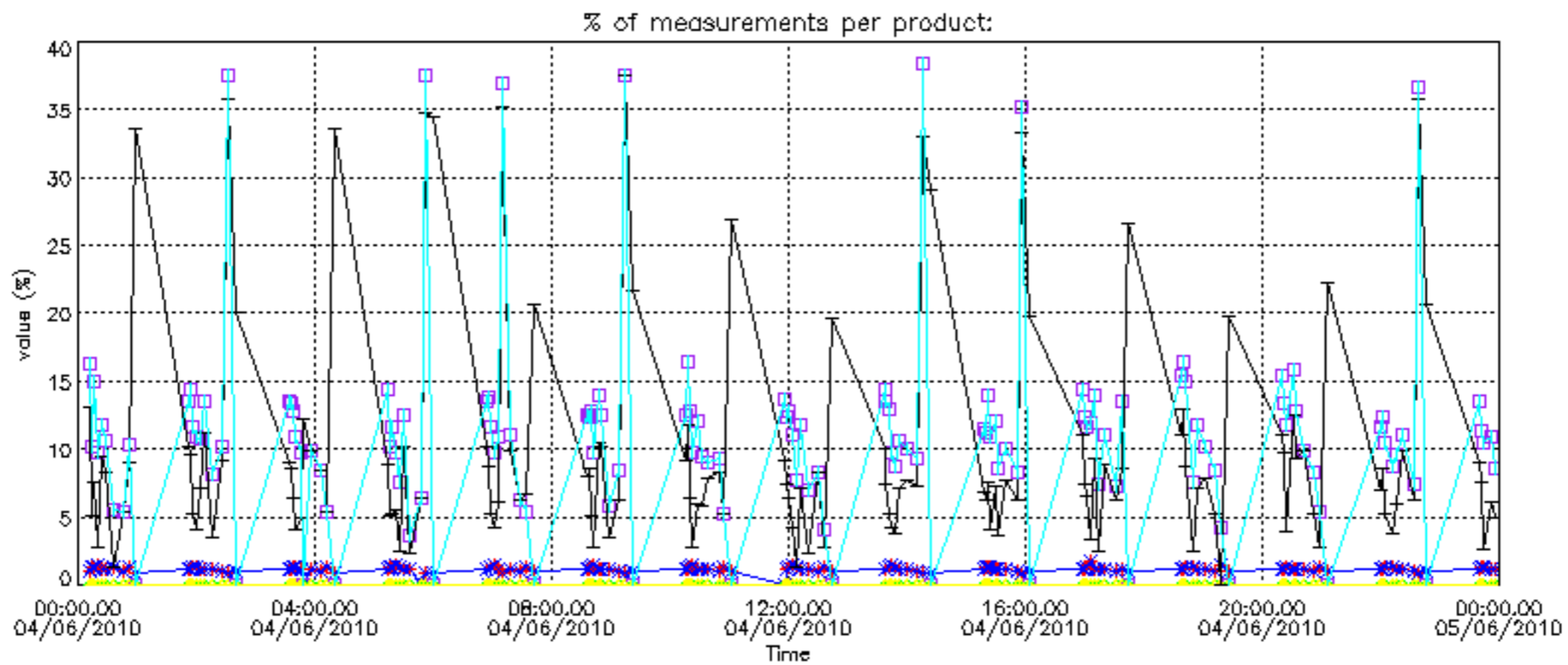
Percentage of flagged data per NO2 profile



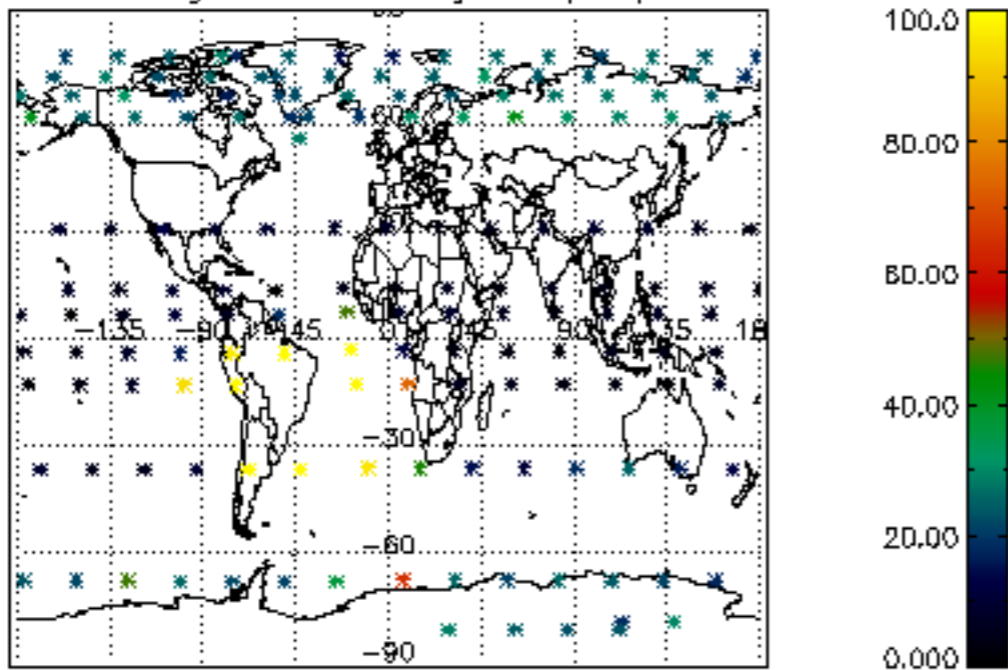
Percentage of flagged data per NO3 profile



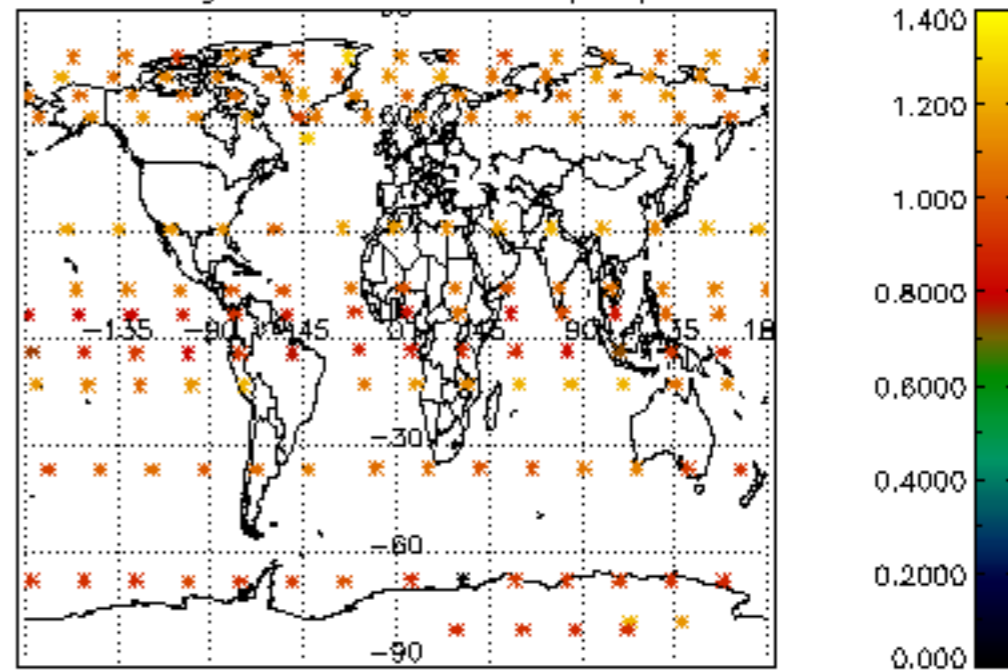




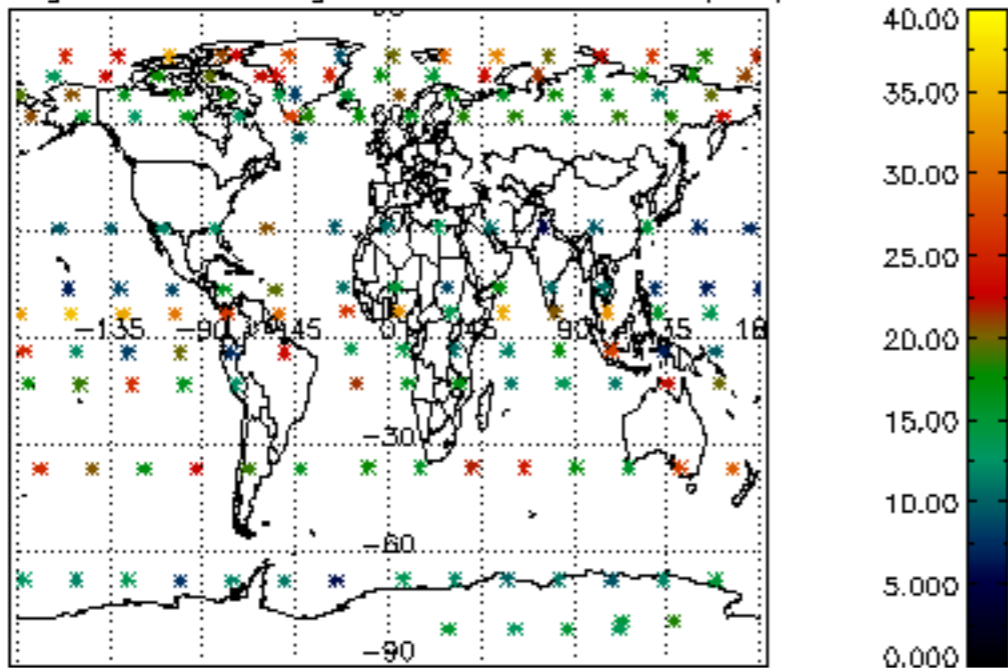
Percentage of cosmic ray hits per profile



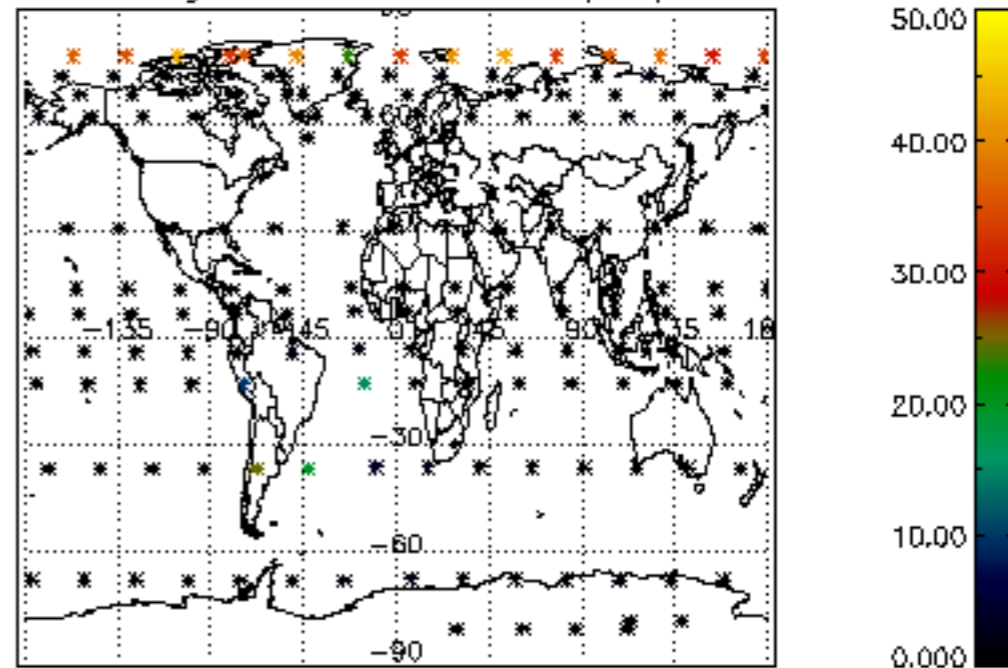
Percentage of datation errors per profile



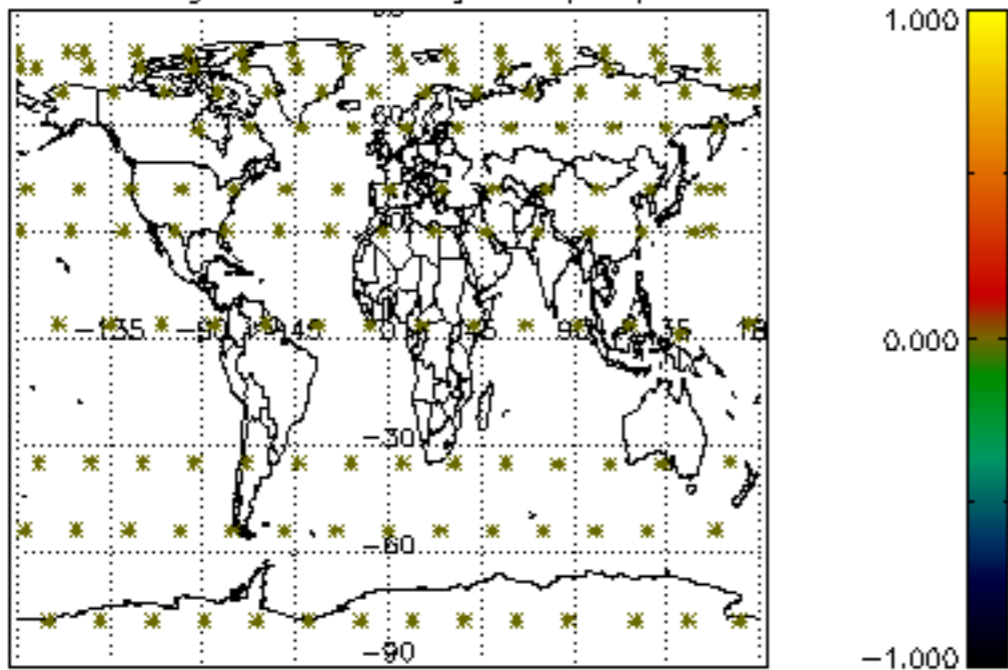
Percentage of star falling outside central band per profile



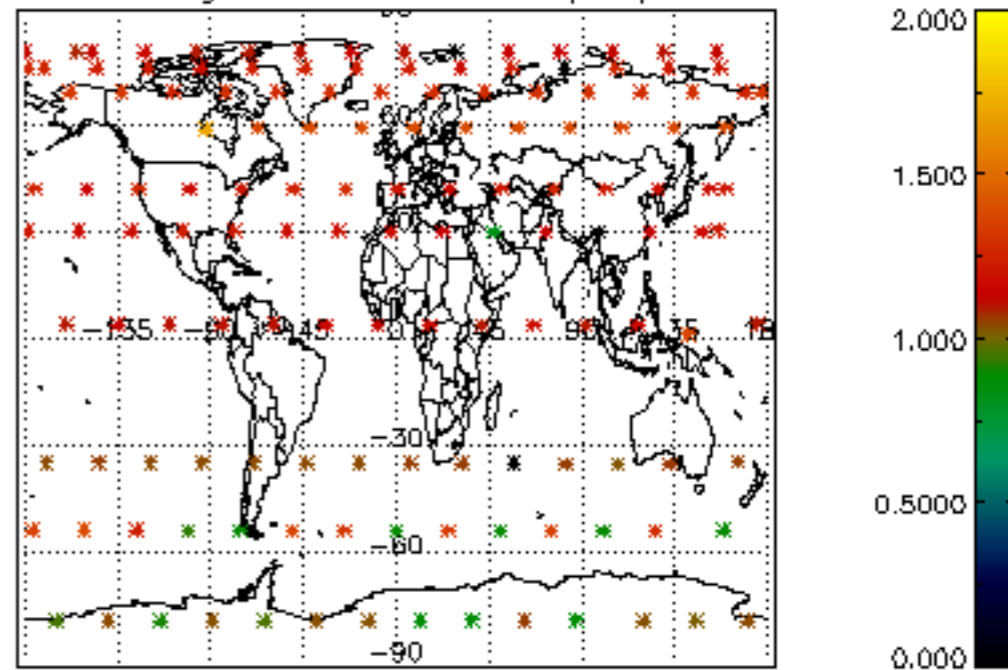
Percentage of saturation errors per profile



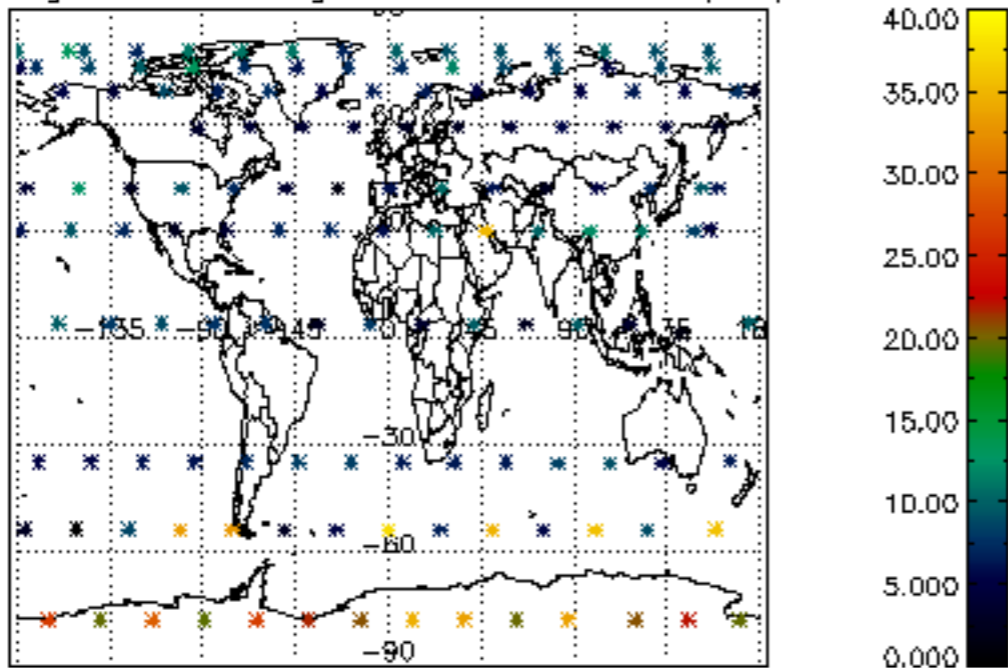
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

