

GOMOS Level 2 Daily Report

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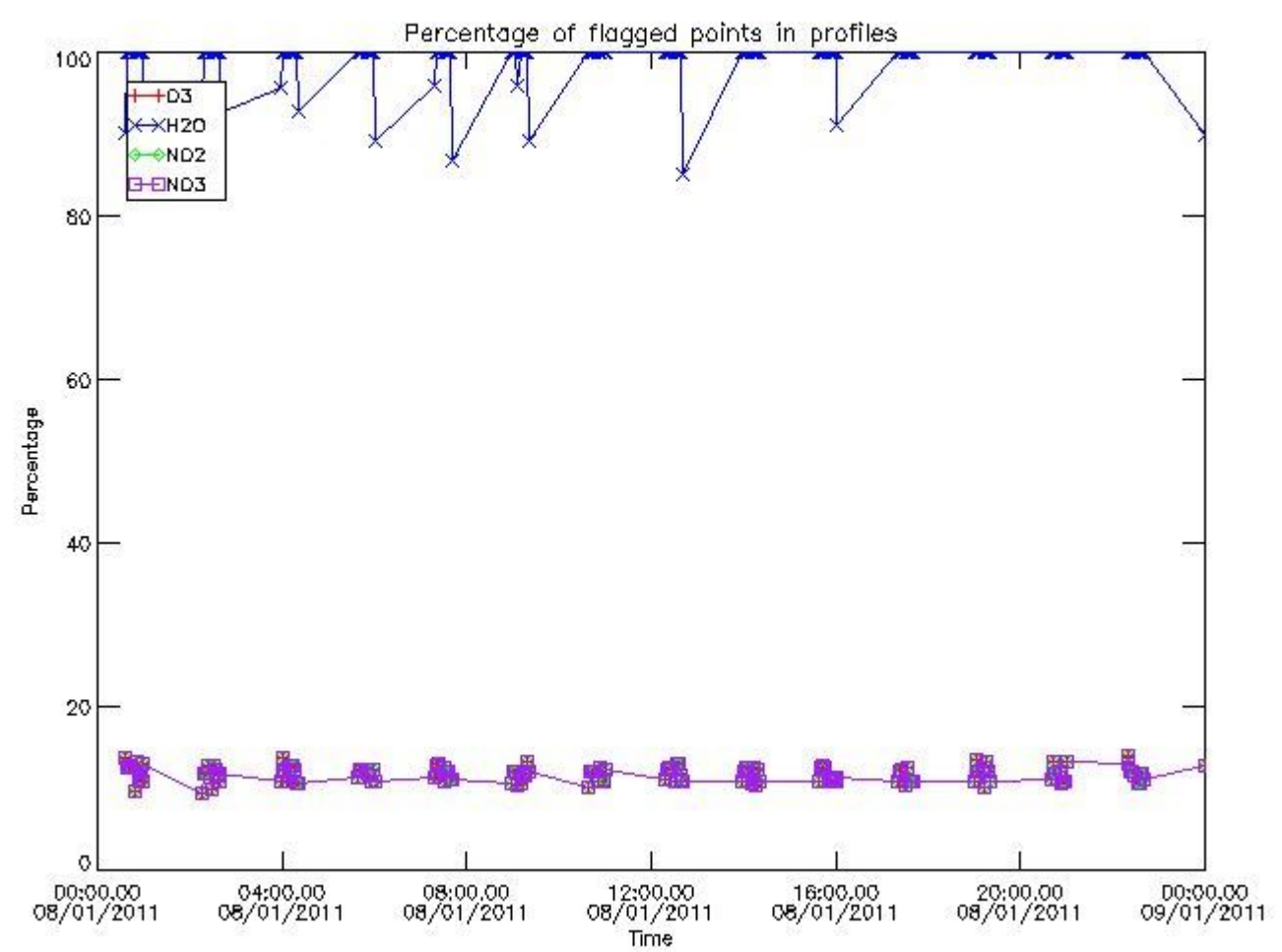
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338	GOM_NL__2PRFIN20110108_221908_000000393098_00187_46322_5497.N1	08-JAN-2011 22:19:08	Dark	39.000	109	Bet Lup	2.6770	26000.	78	46322	No
339	GOM_NL__2PRFIN20110108_222038_000000403098_00187_46322_5498.N1	08-JAN-2011 22:20:38	Dark	40.000	78	Alp Lup	2.3040	28000.	80	46322	No
340	GOM_NL__2PRFIN20110108_222225_000000433098_00187_46322_5499.N1	08-JAN-2011 22:22:25	Dark	42.500	95	Zet Cen	2.5450	26000.	85	46322	No
341	GOM_NL__2PRFIN20110108_222402_000000433098_00188_46323_5506.N1	08-JAN-2011 22:24:02	Dark	42.500	77	Eps Cen	2.3030	28000.	85	46323	No
342	GOM_NL__2PRFIN20110108_222643_000000453098_00188_46323_5507.N1	08-JAN-2011 22:26:43	Dark	44.500	20	Bet Cru	1.2530	30000.	89	46323	No
343	GOM_NL__2PRFIN20110108_223225_000000483098_00188_46323_5508.N1	08-JAN-2011 22:32:25	Dark	48.000	113	Mu Vel	2.6920	5000.0	96	46323	No
344	GOM_NL__2PRFIN20110108_223419_000000483098_00188_46323_5509.N1	08-JAN-2011 22:34:19	Dark	48.000	71	lot Car	2.2460	7700.0	96	46323	No
345	GOM_NL__2PRFIN20110108_223612_000000443098_00188_46323_5510.N1	08-JAN-2011 22:36:12	Dark	43.500	46	Del Vel	1.9540	10600.	87	46323	No
346	GOM_NL__2PRFIN20110108_223858_000000443098_00188_46323_5511.N1	08-JAN-2011 22:38:58	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	46323	No
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350	GOM_NL__2PRFIN20110108_224703_000000423098_00188_46323_5515.N1	08-JAN-2011 22:47:03	Straylight	41.500	179	24Omi2CMa	3.0320	24000.	83	46323	No
351	GOM_NL__2PRFIN20110108_224921_000000563098_00188_46323_5516.N1	08-JAN-2011 22:49:21	Straylight	56.000	1	9Alp CMa	-1.4400	11000.	112	46323	No
352	GOM_NL__2PRFIN20110108_225642_000000573098_00188_46323_5517.N1	08-JAN-2011 22:56:42	Twilight_and_stray	57.000	8	10Alp CMi	0.40000	6500.0	114	46323	No
353	GOM_NL__2PRFIN20110108_225923_000000423098_00188_46323_5518.N1	08-JAN-2011 22:59:23	Twilight_and_stray	42.000	44	24Gam Gem	1.9280	11000.	84	46323	No
354	GOM_NL__2PRFIN20110108_230104_000000433098_00188_46323_5519.N1	08-JAN-2011 23:01:04	Bright	42.500	151	13Mu Gem	2.8900	3000.0	85	46323	No
355	GOM_NL__2PRFIN20110108_230508_000000383098_00188_46323_5520.N1	08-JAN-2011 23:05:08	Bright	37.500	107	37The Aur	2.6490	11000.	75	46323	No
356	GOM_NL__2PRFIN20110108_230720_000000373098_00188_46323_5521.N1	08-JAN-2011 23:07:20	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	46323	No
357	GOM_NL__2PRFIN20110108_232355_000000383098_00188_46323_5522.N1	08-JAN-2011 23:23:55	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	46323	No
358	GOM_NL__2PRFIN20110108_232801_000000543098_00188_46323_5523.N1	08-JAN-2011 23:28:01	Bright	54.000	119	14Eta Dra	2.7270	4700.0	108	46323	No
359	GOM_NL__2PRFIN20110108_233509_000000463098_00188_46323_5524.N1	08-JAN-2011 23:35:09	Bright	45.500	180	27Gam Boo	3.0400	8000.0	91	46323	No
360	GOM_NL__2PRFIN20110108_233914_000000703098_00188_46323_5525.N1	08-JAN-2011 23:39:14	Bright	70.000	83		2.3780	11000.	140	46323	No
361	GOM_NL__2PRFIN20110108_234443_000000583098_00188_46323_5526.N1	08-JAN-2011 23:44:43	Bright	58.000	102	24Alp Ser	2.6000	4250.0	116	46323	No
362	GOM_NL__2PRFIN20110108_235008_000000463098_00188_46323_5527.N1	08-JAN-2011 23:50:08	Twilight_and_stray	46.000	104	27Bet Lib	2.6140	13100.	92	46323	No
363	GOM_NL__2PRFIN20110108_235304_000000493098_00188_46323_5528.N1	08-JAN-2011 23:53:04	Twilight_and_stray	49.000	122	9Alp2Lib	2.7470	9700.0	98	46323	No
364	GOM_NL__2PRFIN20110108_235923_000000403098_00188_46323_5529.N1	08-JAN-2011 23:59:23	Dark	40.000	109	Bet Lup	2.6770	26000.	80	46323	No

3. Quality information per product

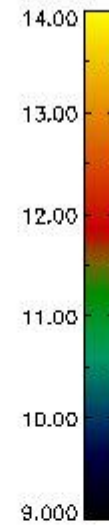
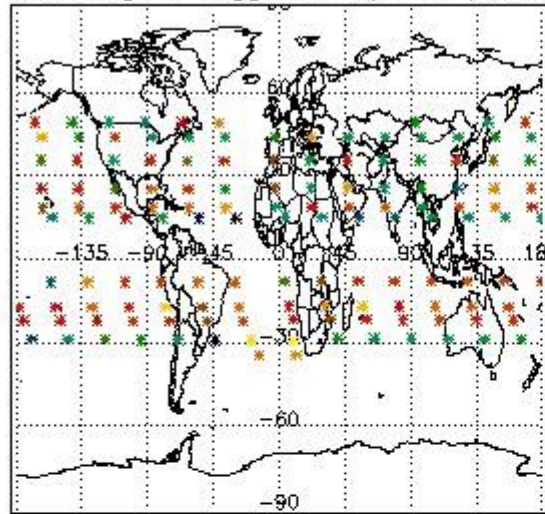
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

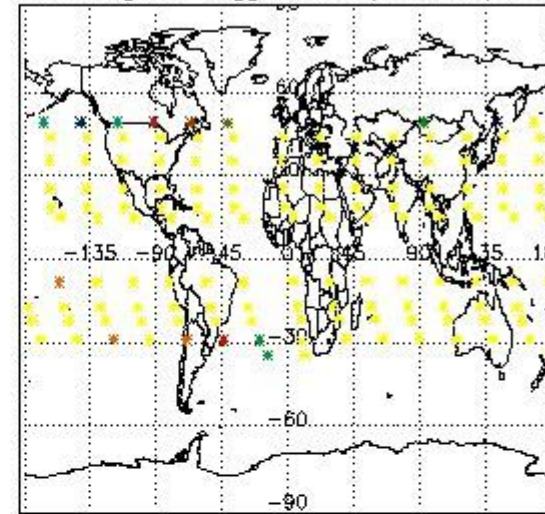


3.2 Plot quality information per product (world map)

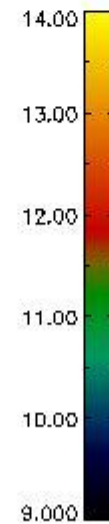
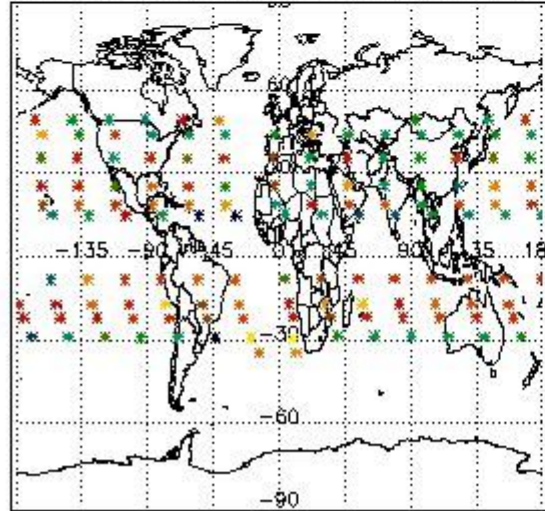
Percentage of flagged data per O3 profile



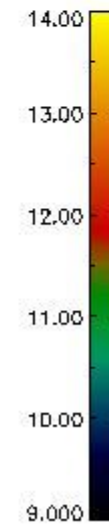
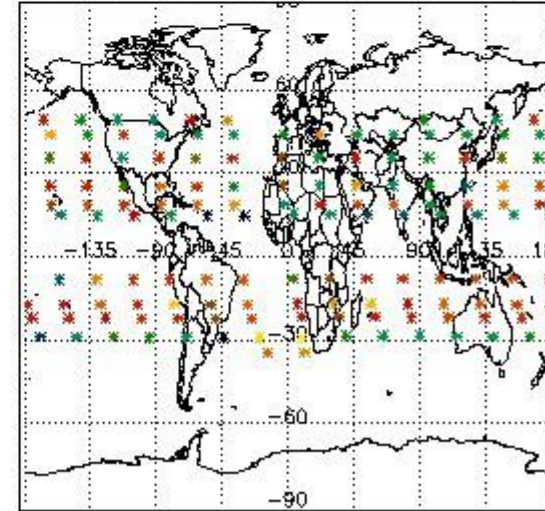
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

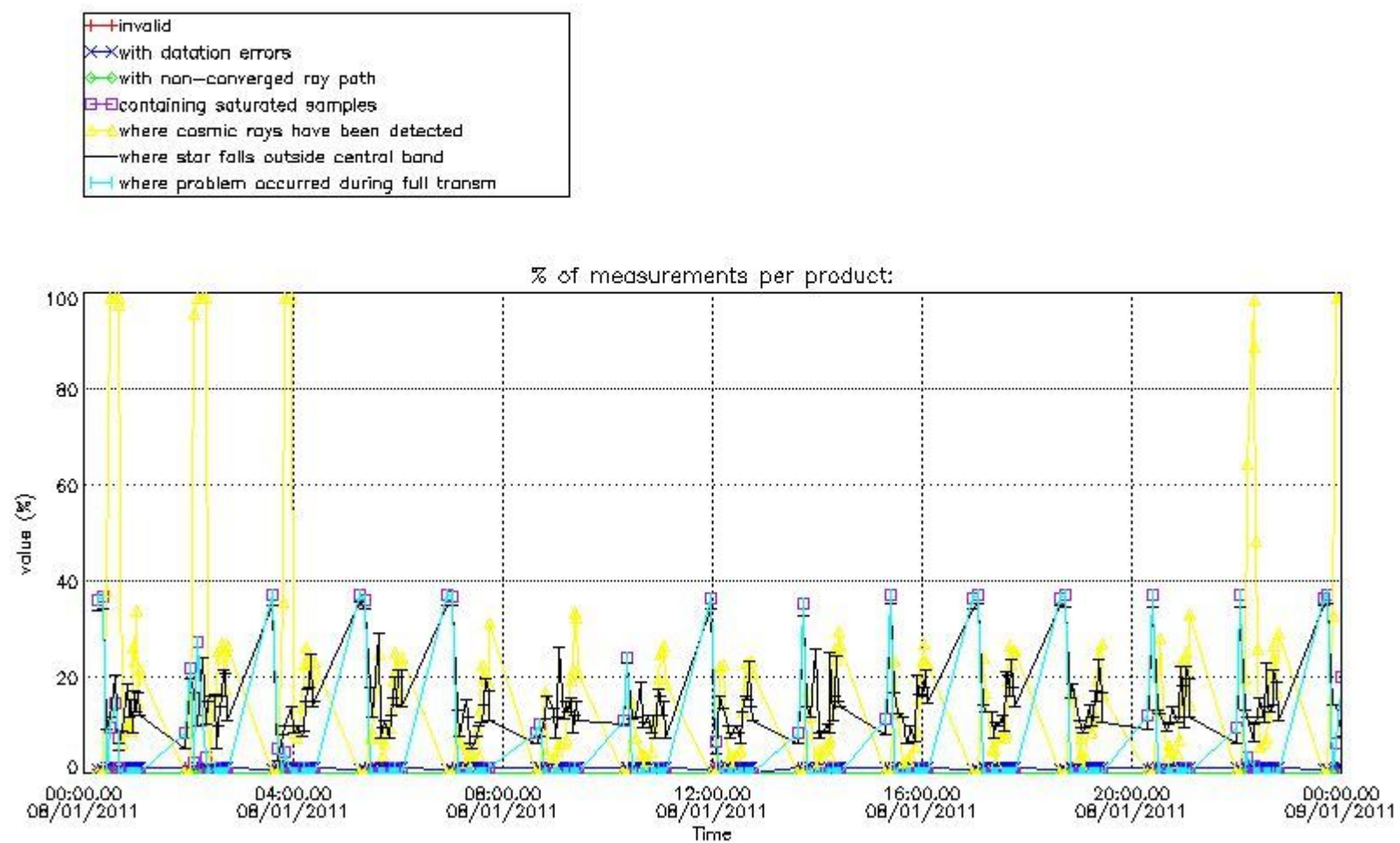


4. Level 1 quality information per product

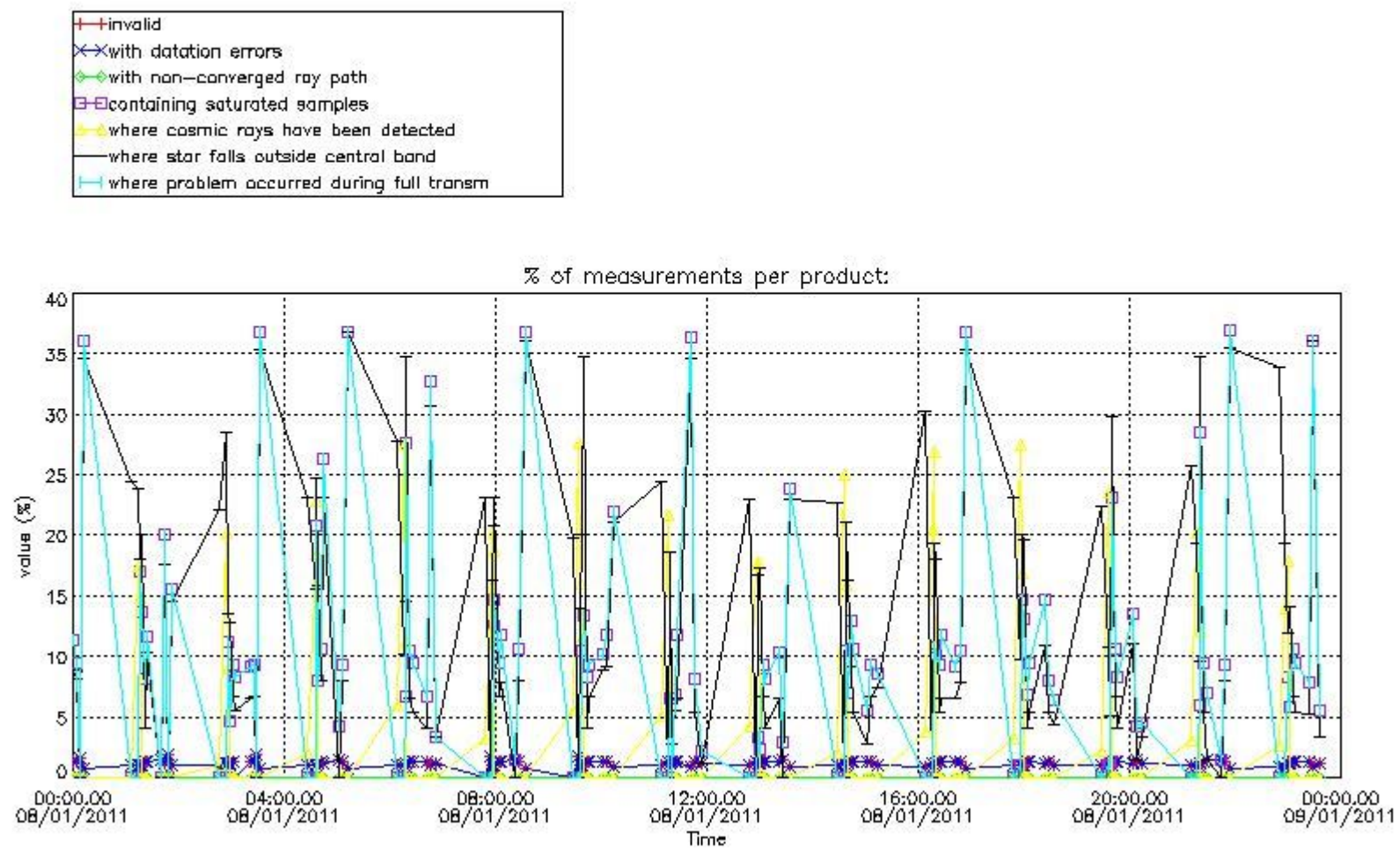
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



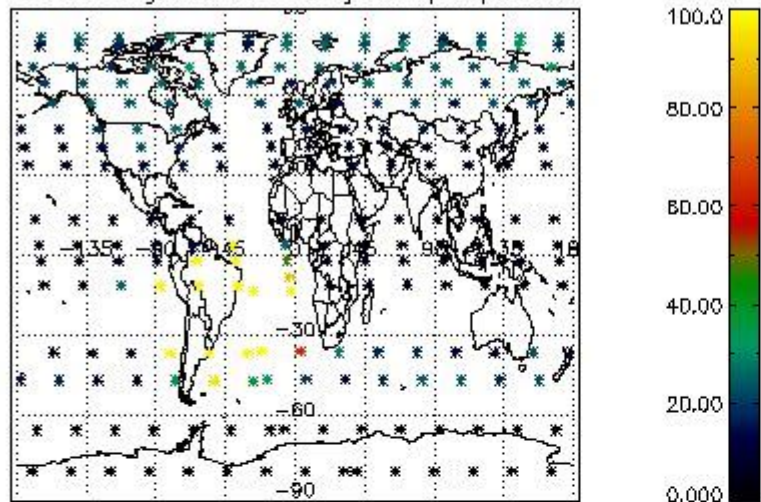
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



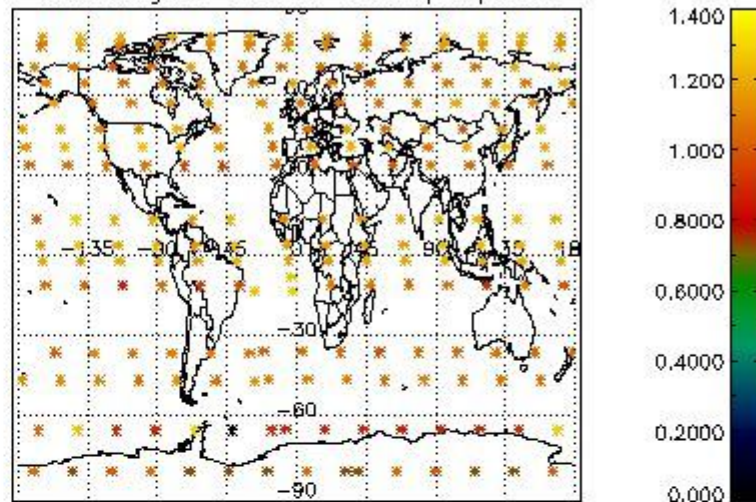
4.2 Plot quality information per product coming from level 1b processing (world map)

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

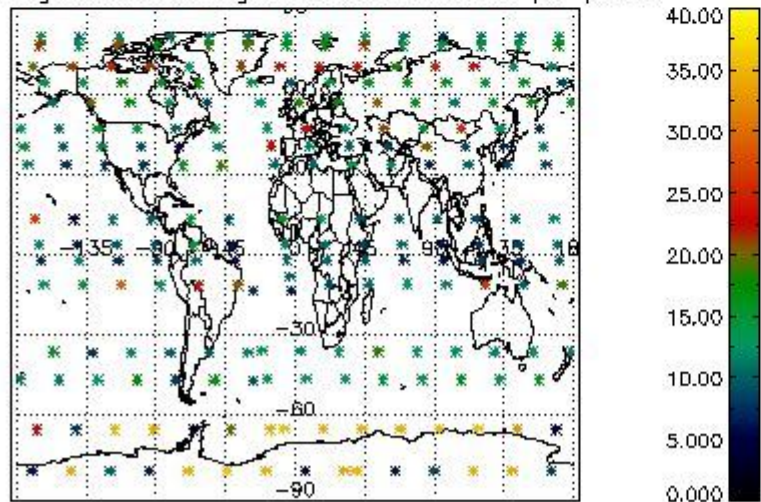
Percentage of cosmic ray hits per profile



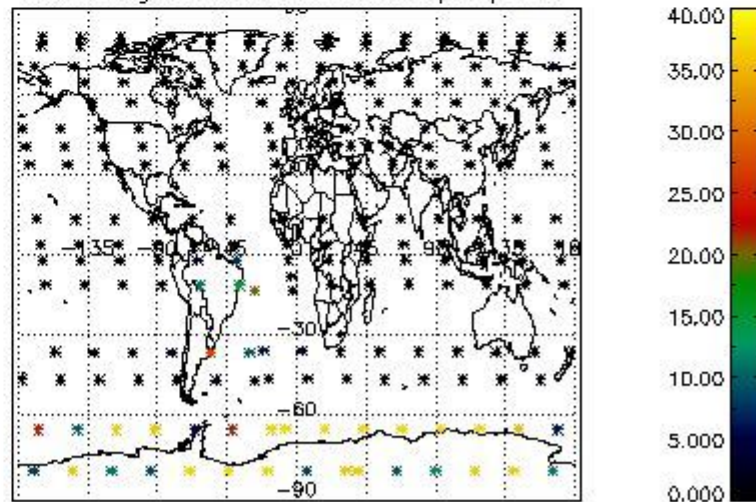
Percentage of datation errors per profile



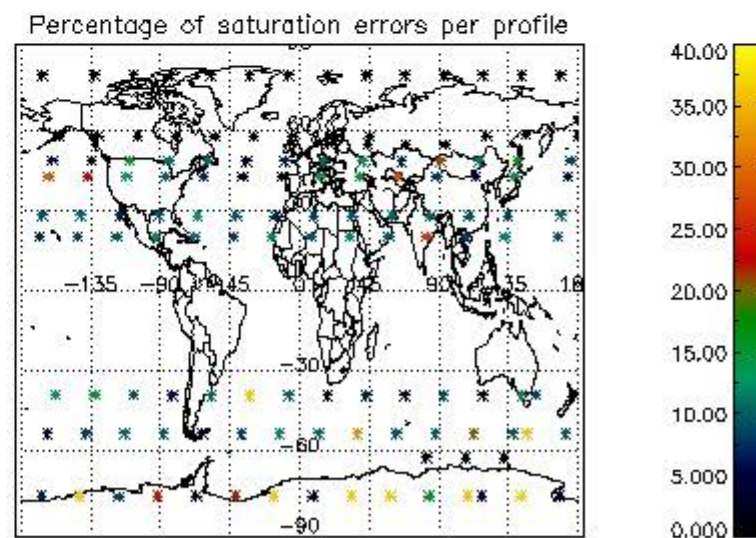
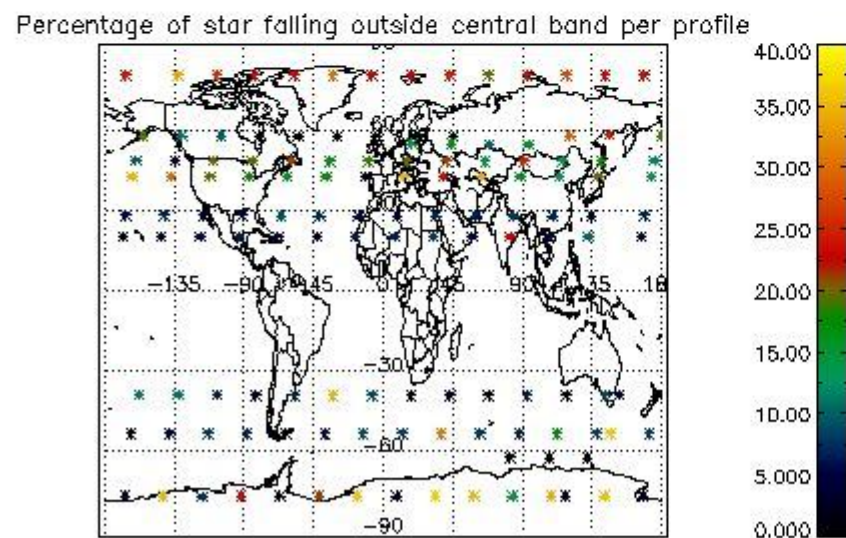
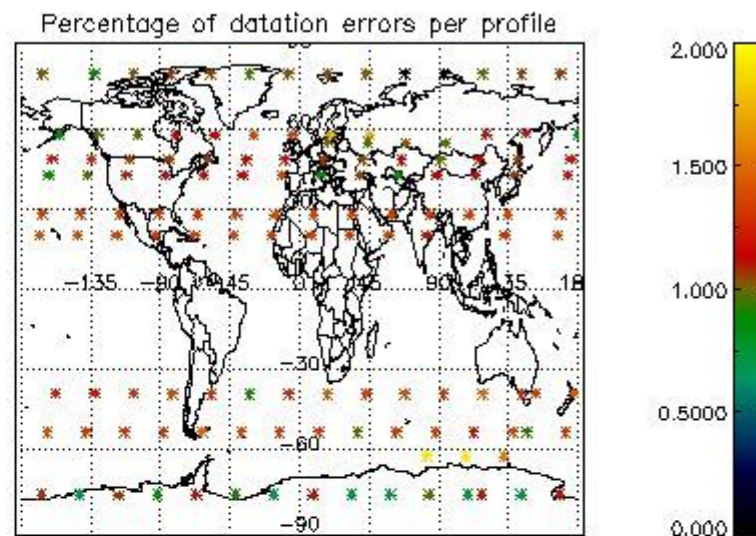
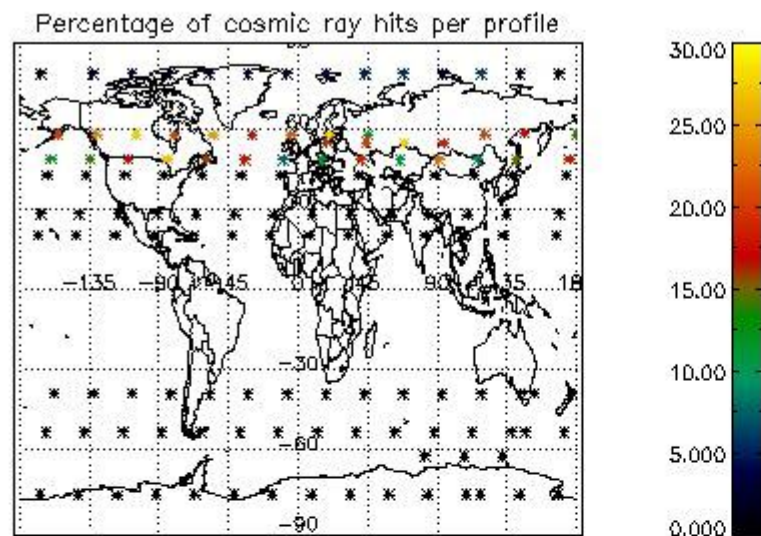
Percentage of star falling outside central band per profile



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

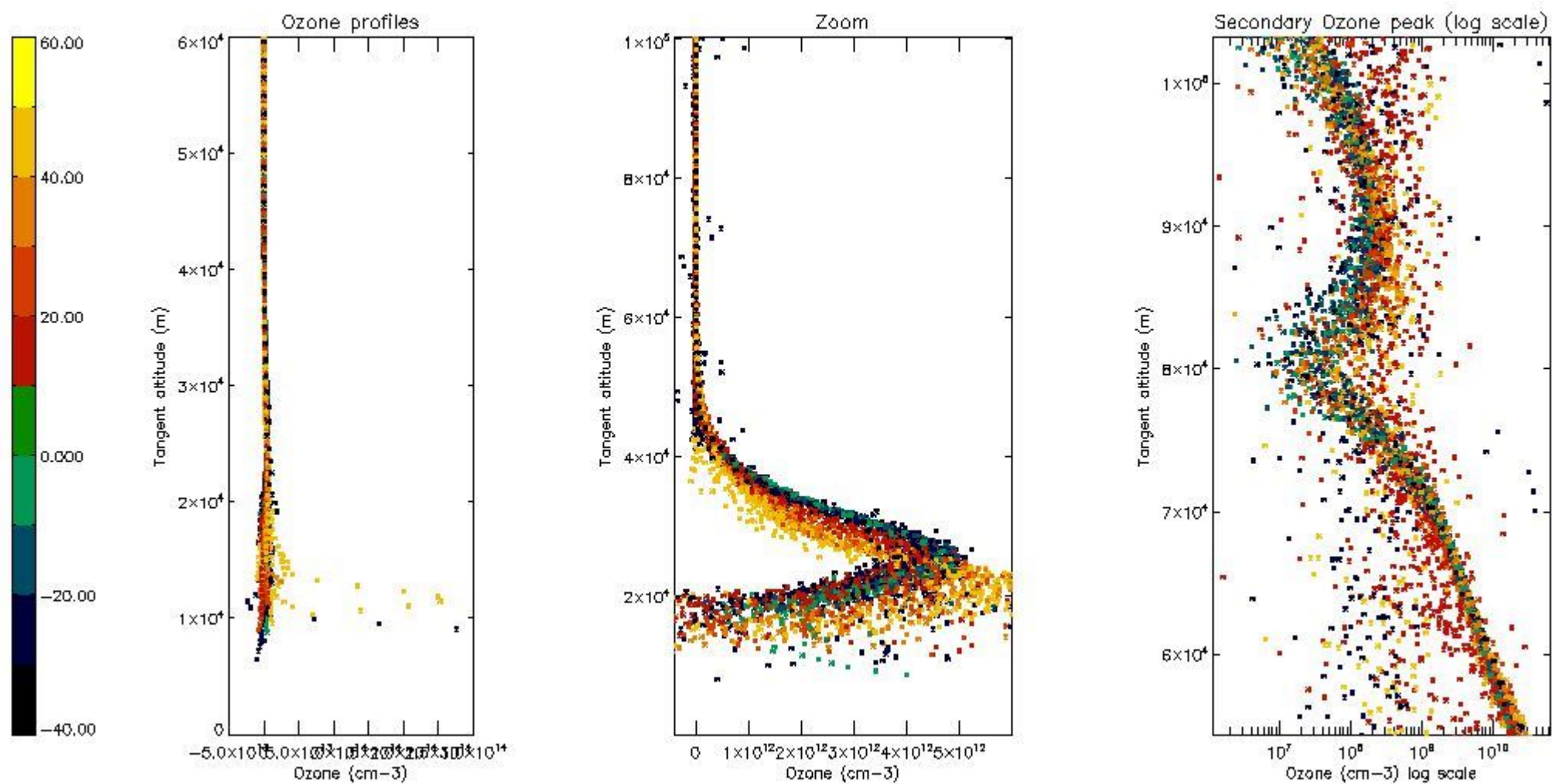
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	18

STD < 10	14
STD < 5	9

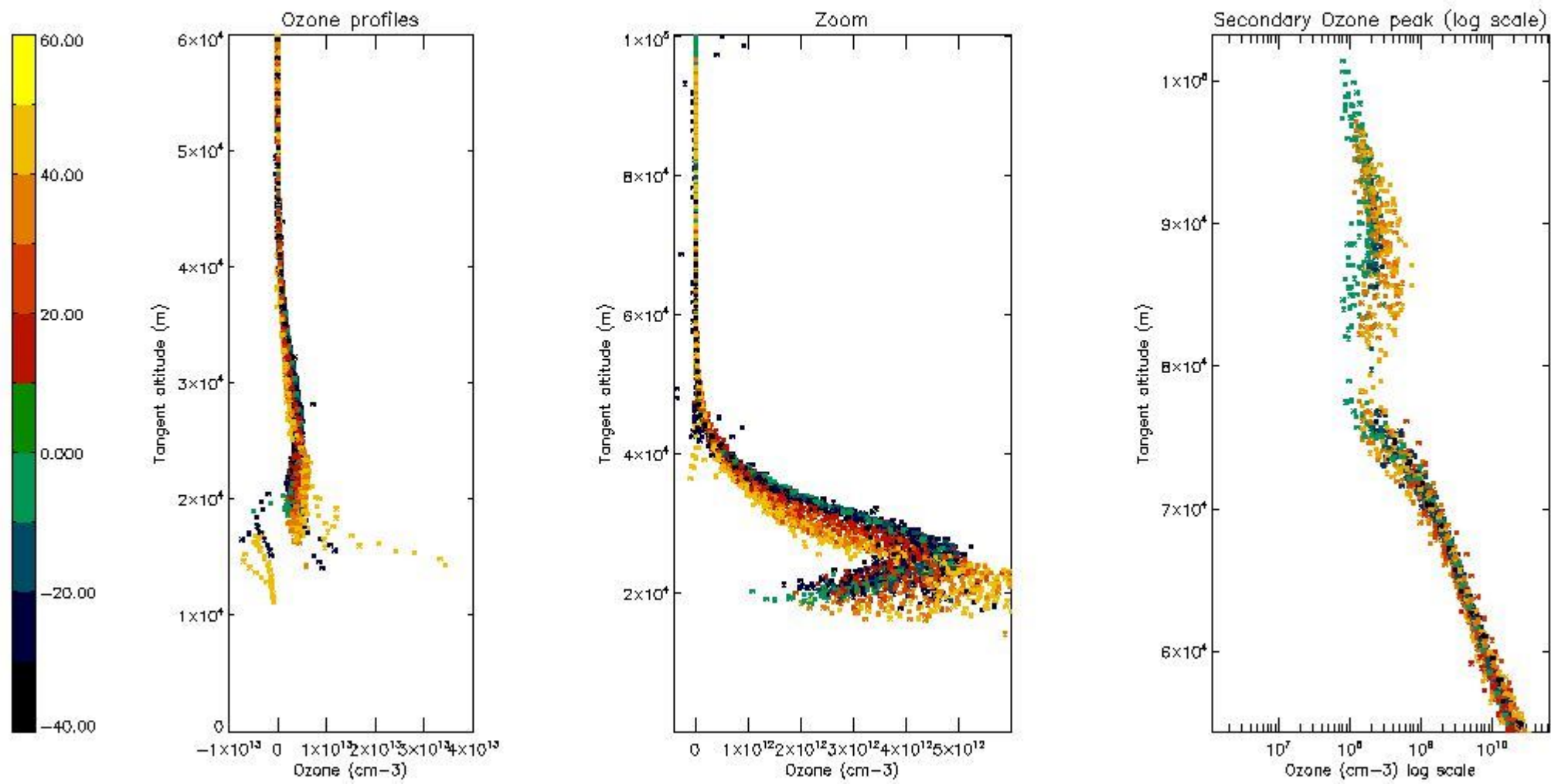
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



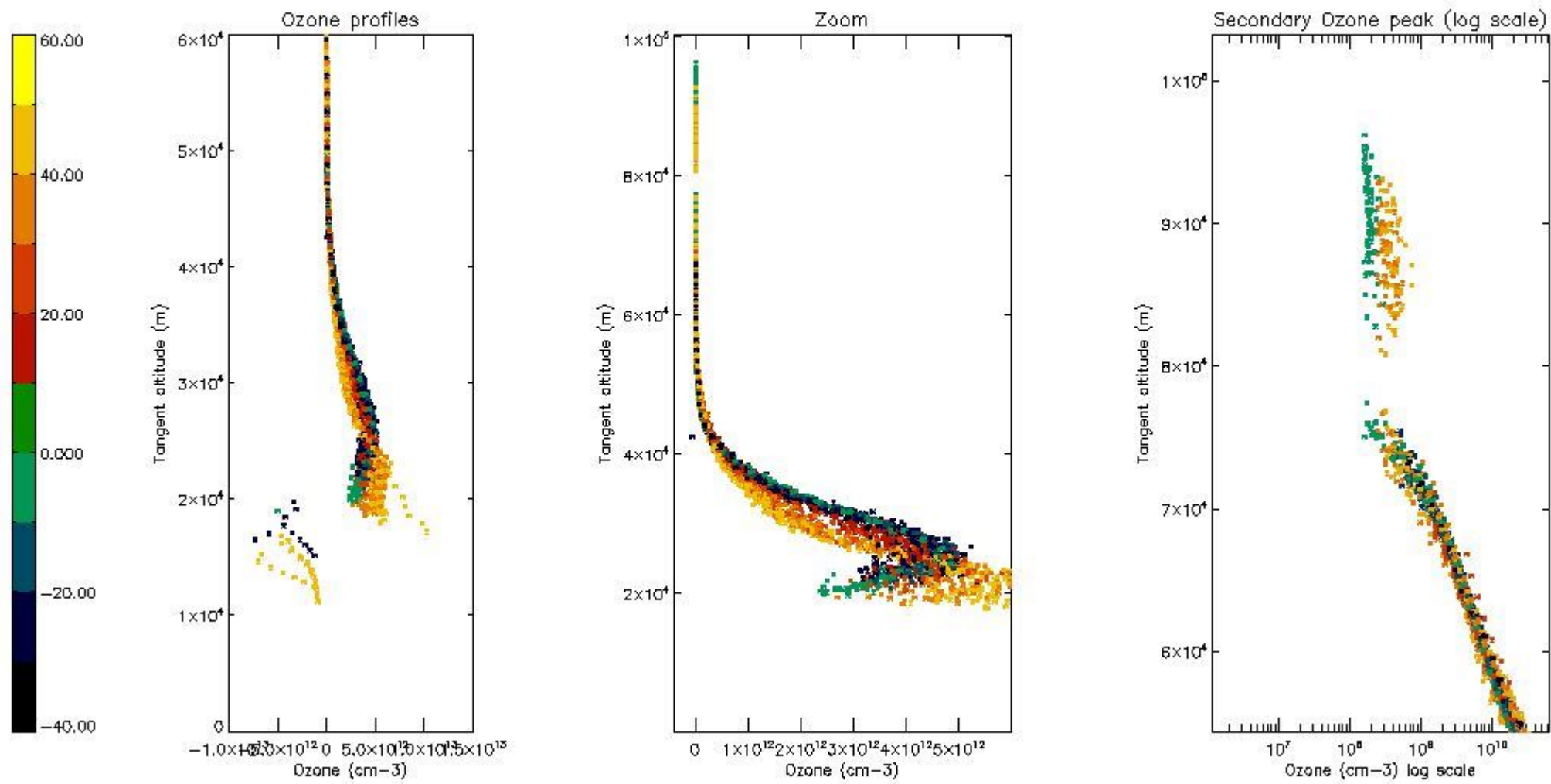
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



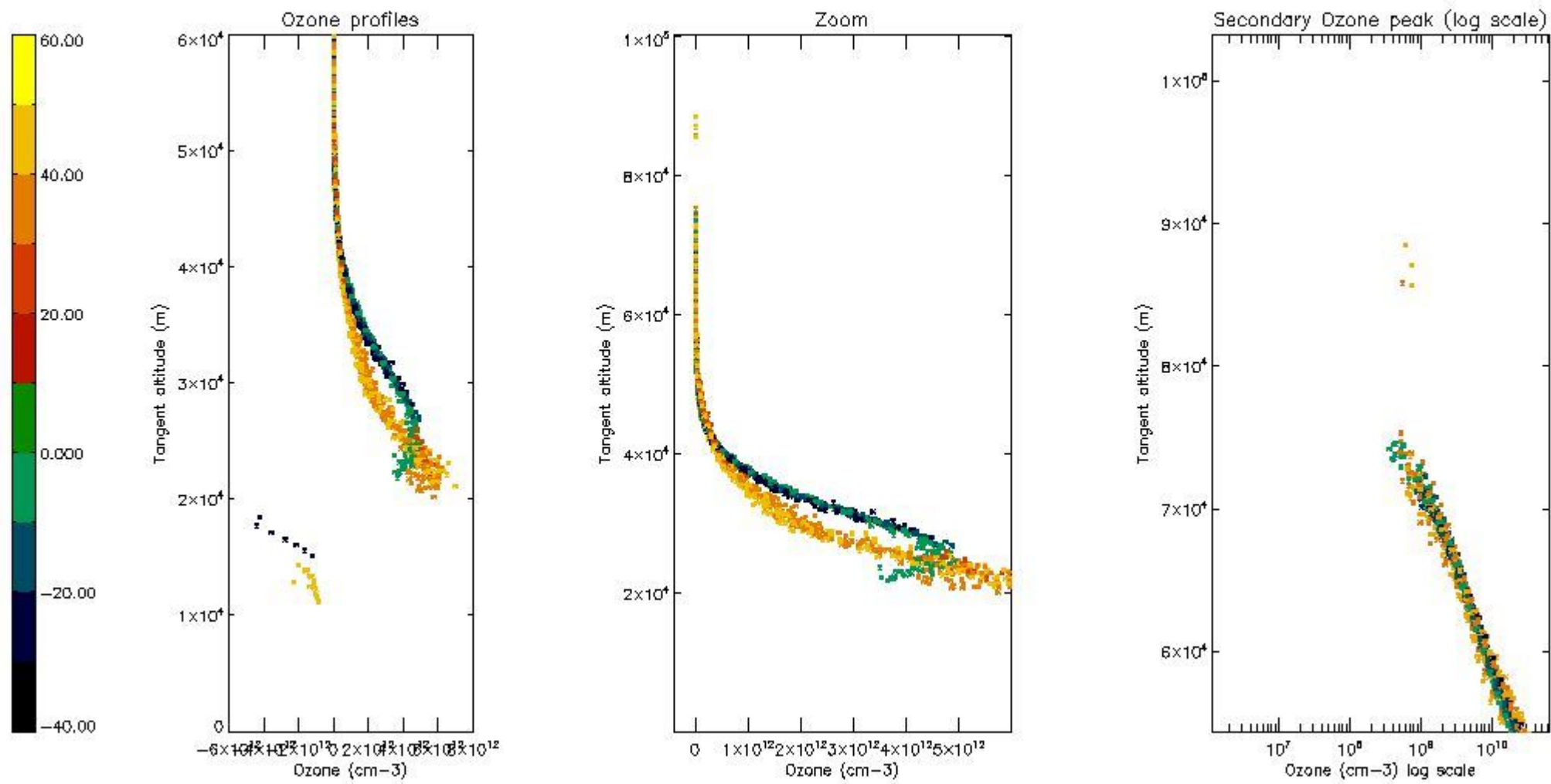
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



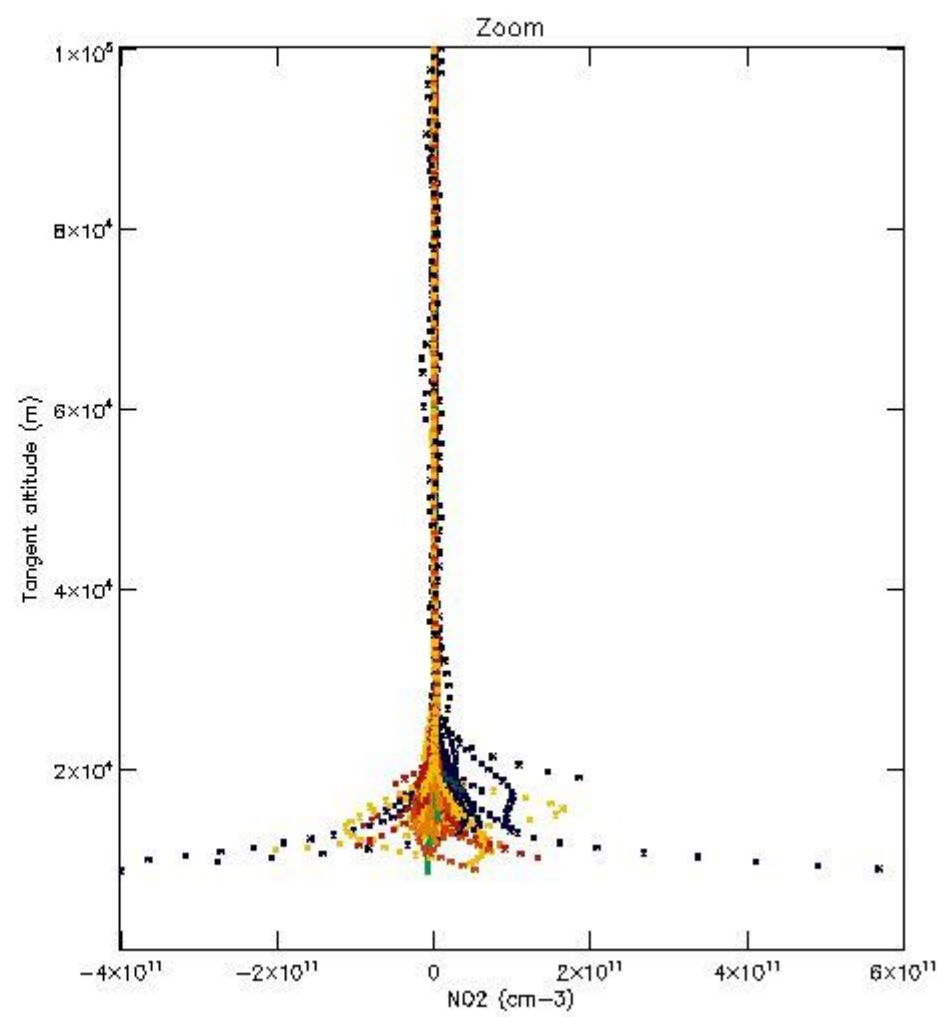
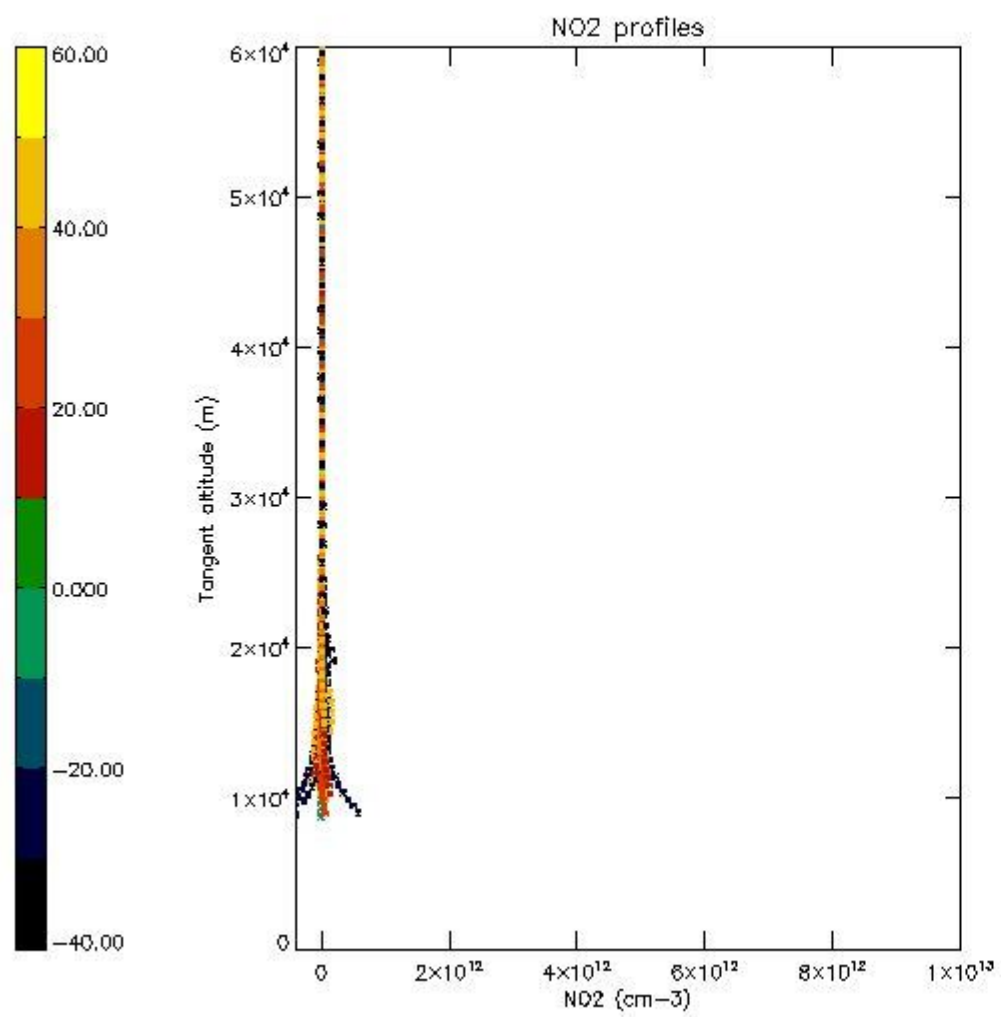
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



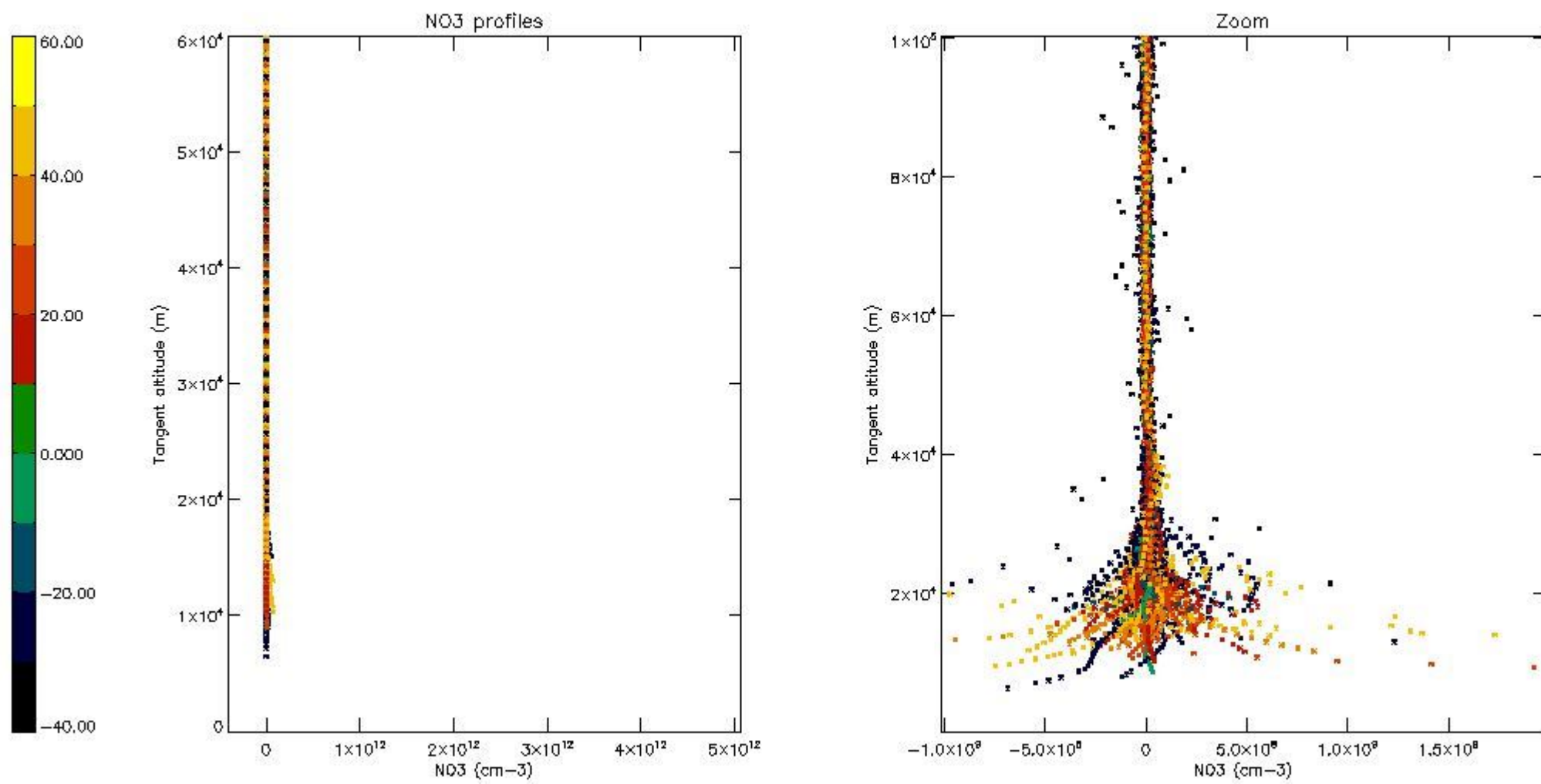
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



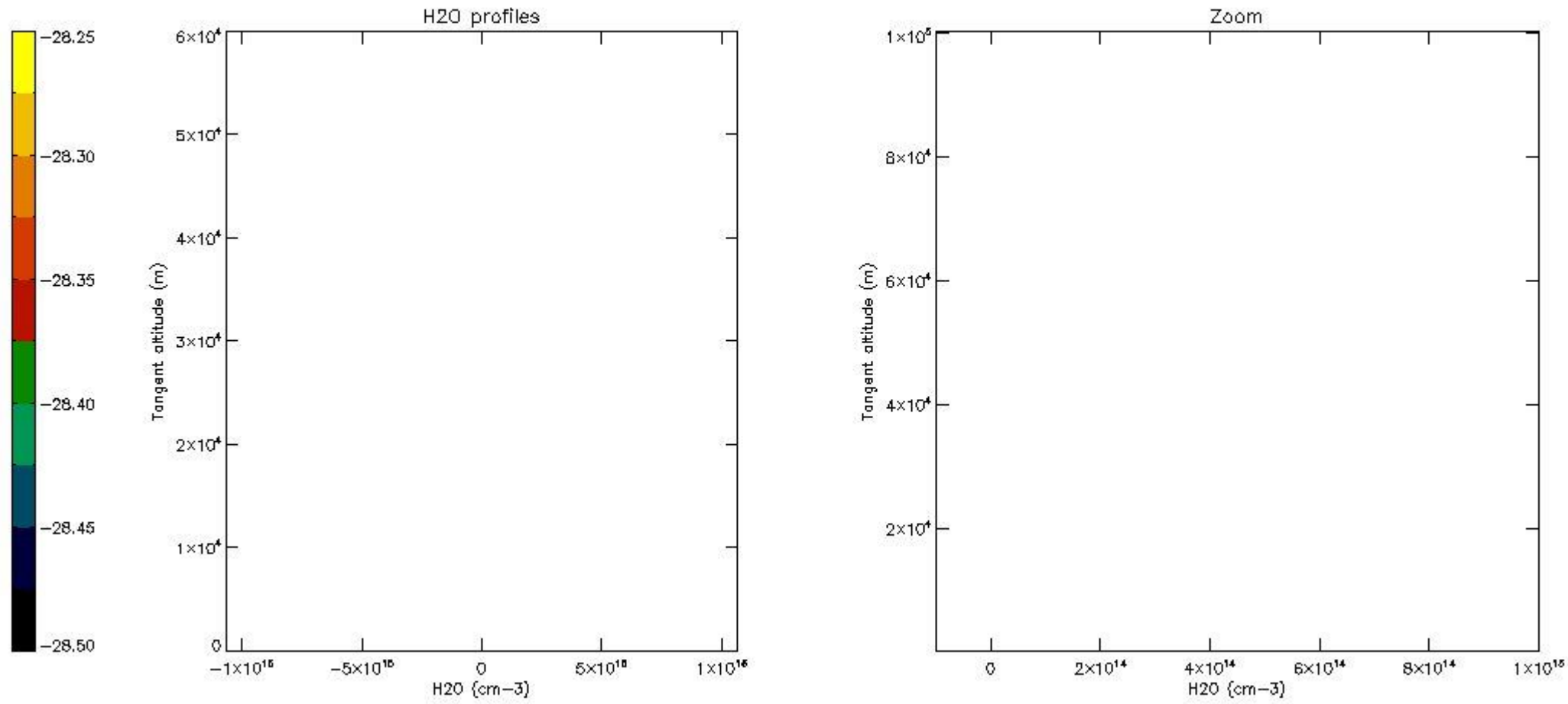
5.7 Plot NO3 profiles for all STD (dark without errors)

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	08-JAN-2011 00:00:40
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	08-JAN-2011 00:00:40
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	08-JAN-2011 00:00:40

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[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

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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](#)

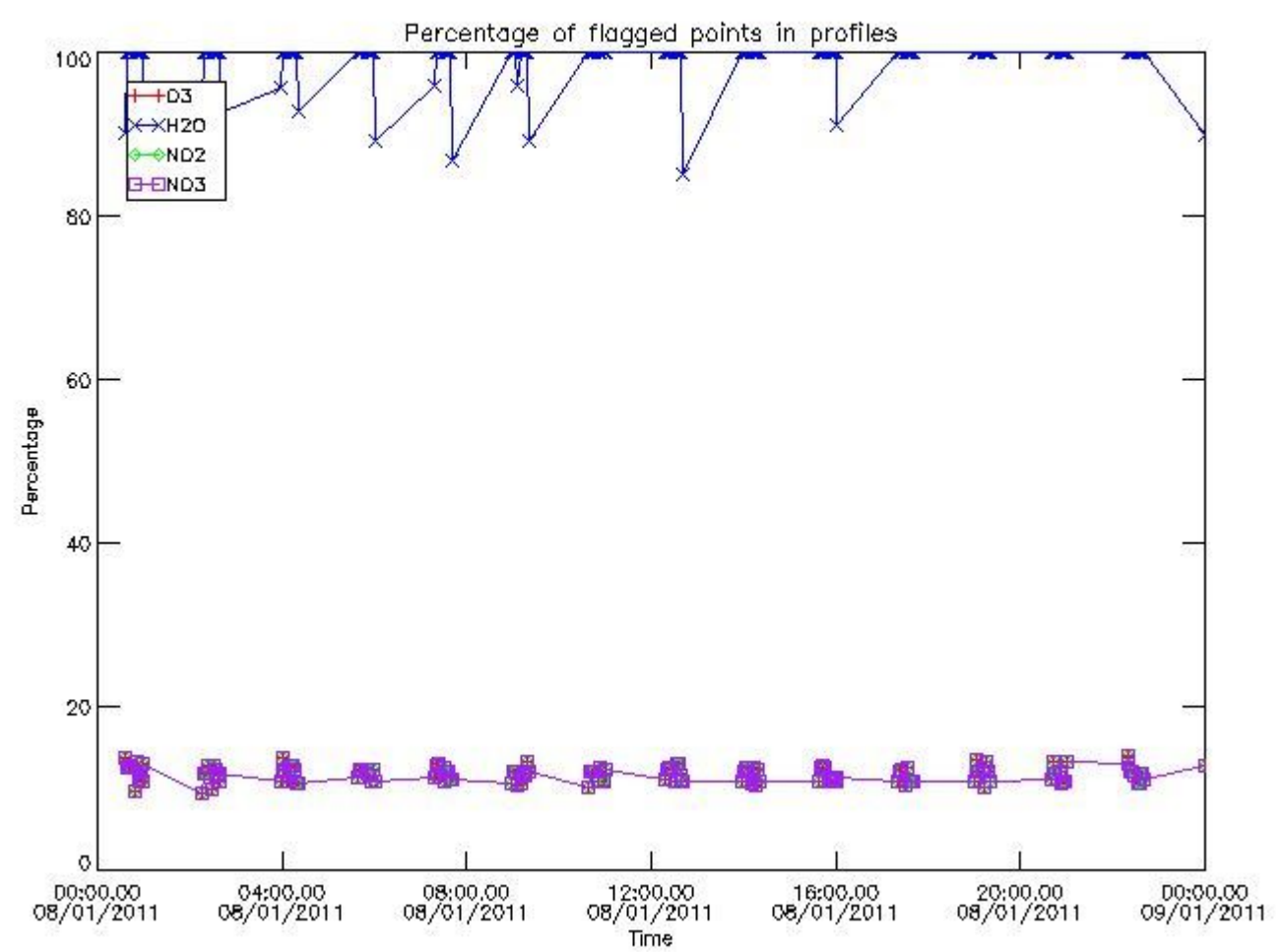
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346	GOM_NL__2PRFIN20110108_223858_000000443098_00188_46323_5511.N1	08-JAN-2011 22:38:58	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	46323	No
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348	GOM_NL__2PRFIN20110108_224258_000000473098_00188_46323_5513.N1	08-JAN-2011 22:42:58	Straylight	47.000	117	Pi Pup	2.7060	3800.0	94	46323	No
349	GOM_NL__2PRFIN20110108_224536_000000453098_00188_46323_5514.N1	08-JAN-2011 22:45:36	Straylight	45.000	23	21Eps CMa	1.5020	26000.	90	46323	No
350	GOM_NL__2PRFIN20110108_224703_000000423098_00188_46323_5515.N1	08-JAN-2011 22:47:03	Straylight	41.500	179	24Omi2CMa	3.0320	24000.	83	46323	No
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357	GOM_NL__2PRFIN20110108_232355_000000383098_00188_46323_5522.N1	08-JAN-2011 23:23:55	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	46323	No
358	GOM_NL__2PRFIN20110108_232801_000000543098_00188_46323_5523.N1	08-JAN-2011 23:28:01	Bright	54.000	119	14Eta Dra	2.7270	4700.0	108	46323	No
359	GOM_NL__2PRFIN20110108_233509_000000463098_00188_46323_5524.N1	08-JAN-2011 23:35:09	Bright	45.500	180	27Gam Boo	3.0400	8000.0	91	46323	No
360	GOM_NL__2PRFIN20110108_233914_000000703098_00188_46323_5525.N1	08-JAN-2011 23:39:14	Bright	70.000	83		2.3780	11000.	140	46323	No
361	GOM_NL__2PRFIN20110108_234443_000000583098_00188_46323_5526.N1	08-JAN-2011 23:44:43	Bright	58.000	102	24Alp Ser	2.6000	4250.0	116	46323	No
362	GOM_NL__2PRFIN20110108_235008_000000463098_00188_46323_5527.N1	08-JAN-2011 23:50:08	Twilight_and_stray	46.000	104	27Bet Lib	2.6140	13100.	92	46323	No
363	GOM_NL__2PRFIN20110108_235304_000000493098_00188_46323_5528.N1	08-JAN-2011 23:53:04	Twilight_and_stray	49.000	122	9Alp2Lib	2.7470	9700.0	98	46323	No
364	GOM_NL__2PRFIN20110108_235923_000000403098_00188_46323_5529.N1	08-JAN-2011 23:59:23	Dark	40.000	109	Bet Lup	2.6770	26000.	80	46323	No

3. Quality information per product

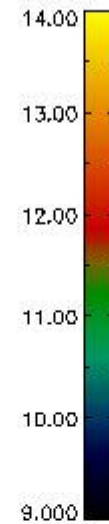
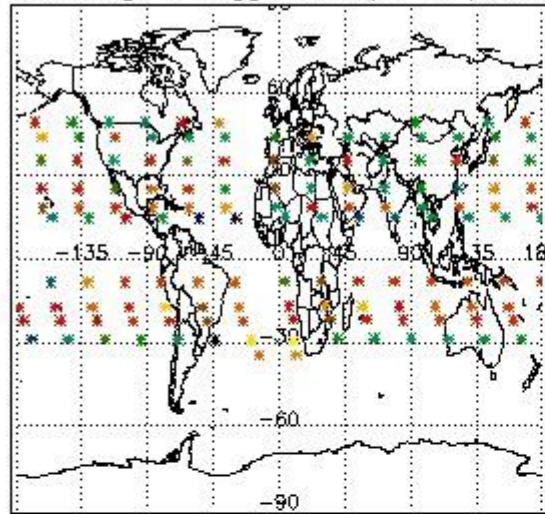
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

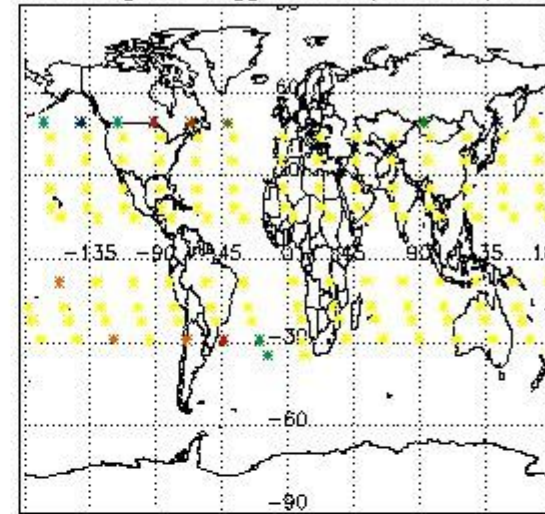


3.2 Plot quality information per product (world map)

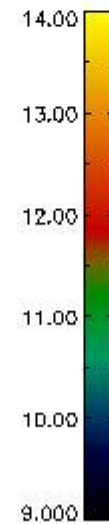
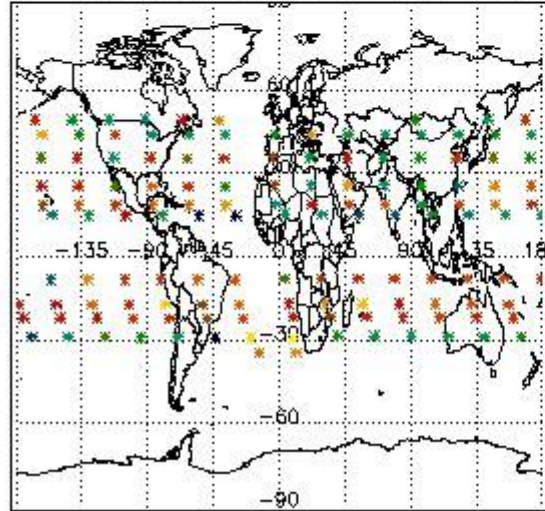
Percentage of flagged data per O3 profile



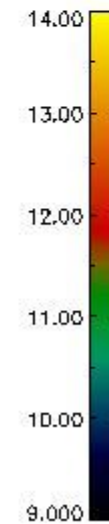
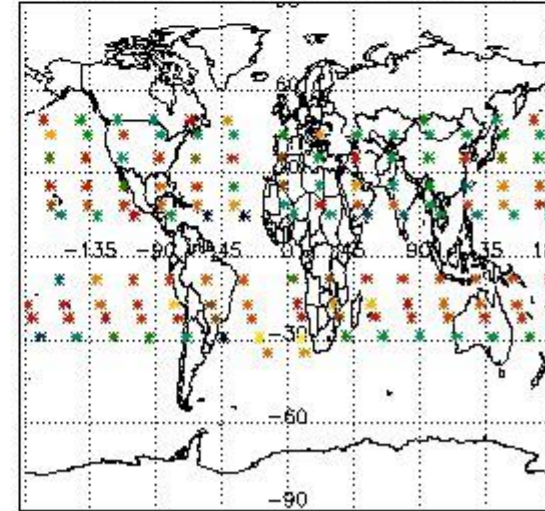
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

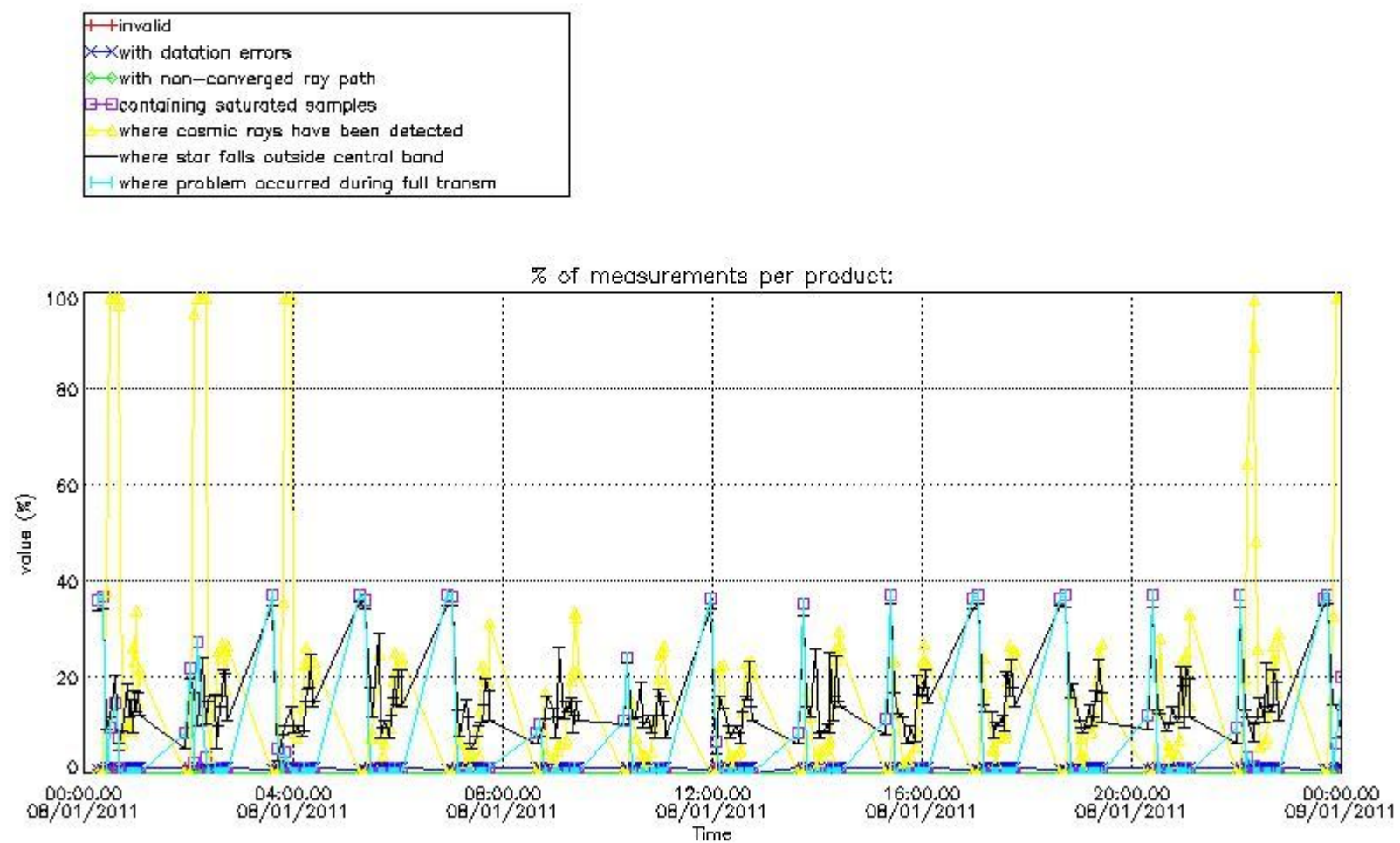


4. Level 1 quality information per product

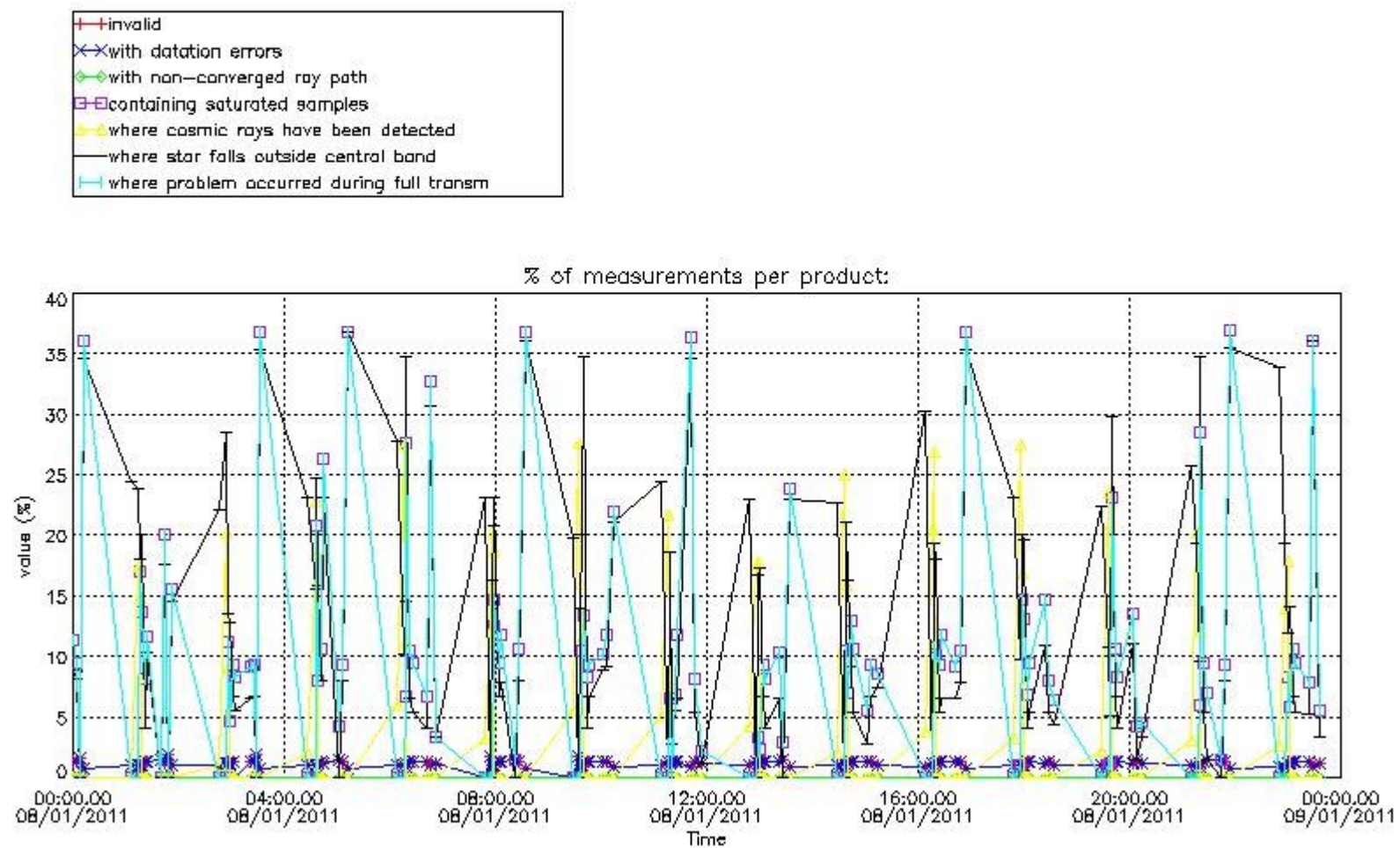
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



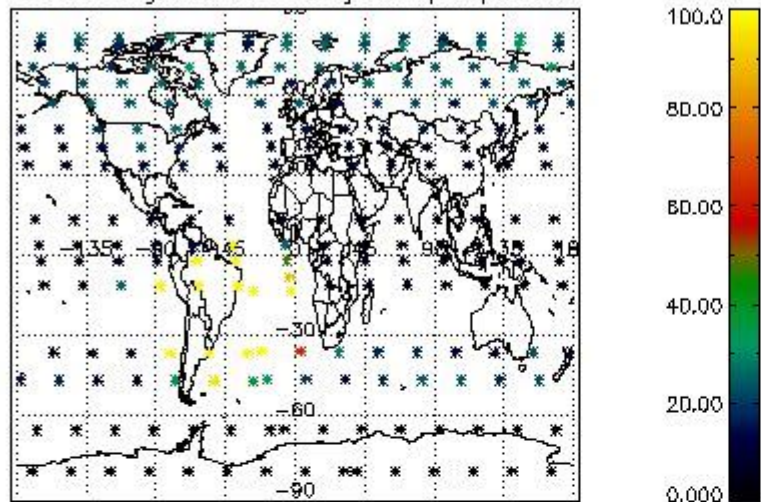
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



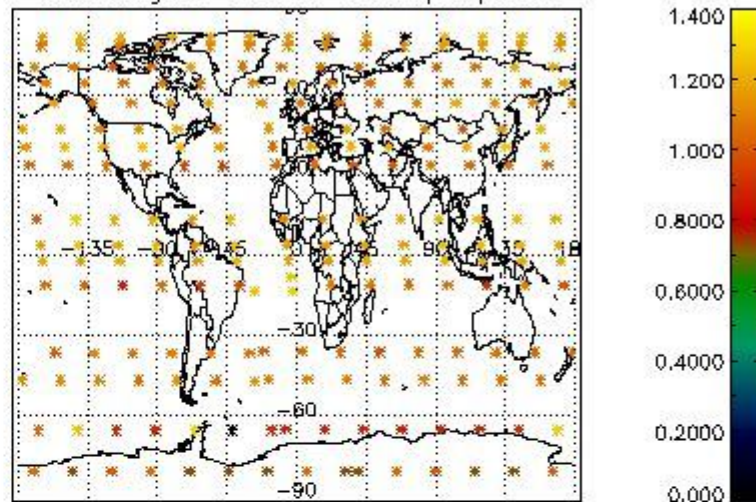
4.2 Plot quality information per product coming from level 1b processing (world map)

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

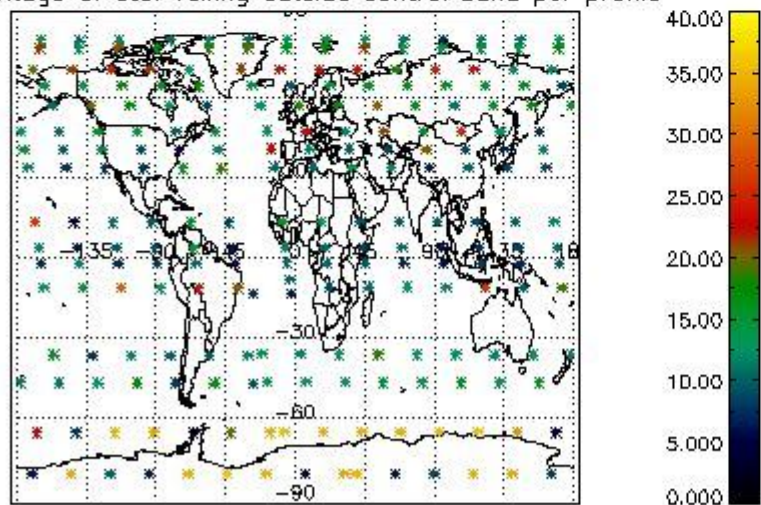
Percentage of cosmic ray hits per profile



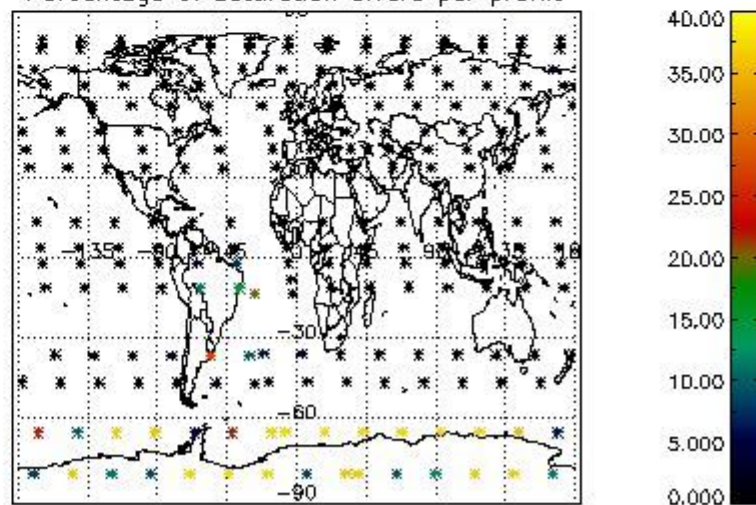
Percentage of datation errors per profile



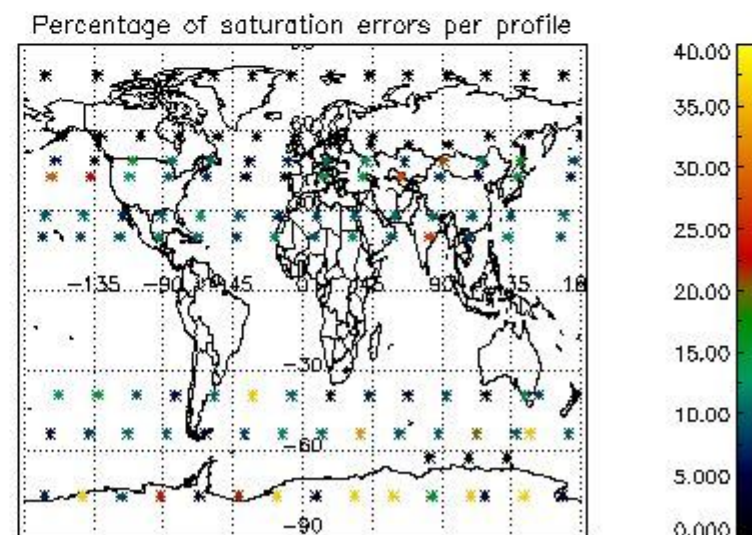
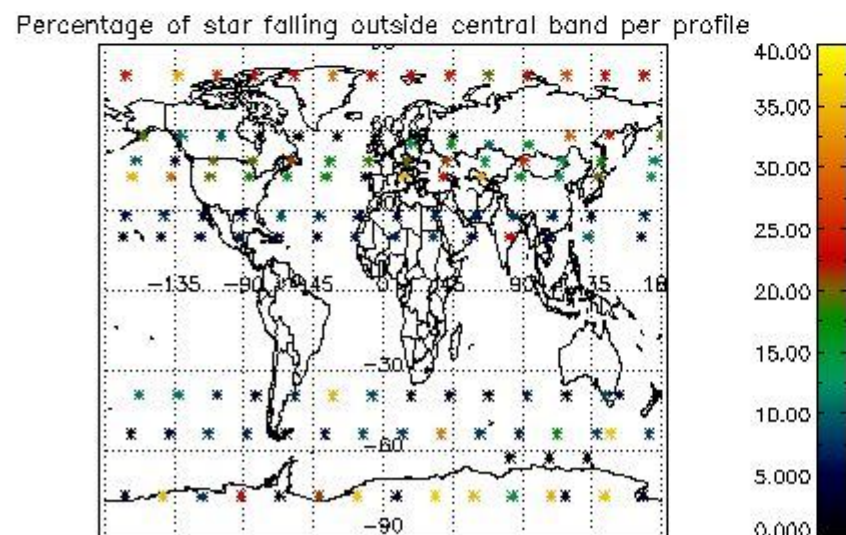
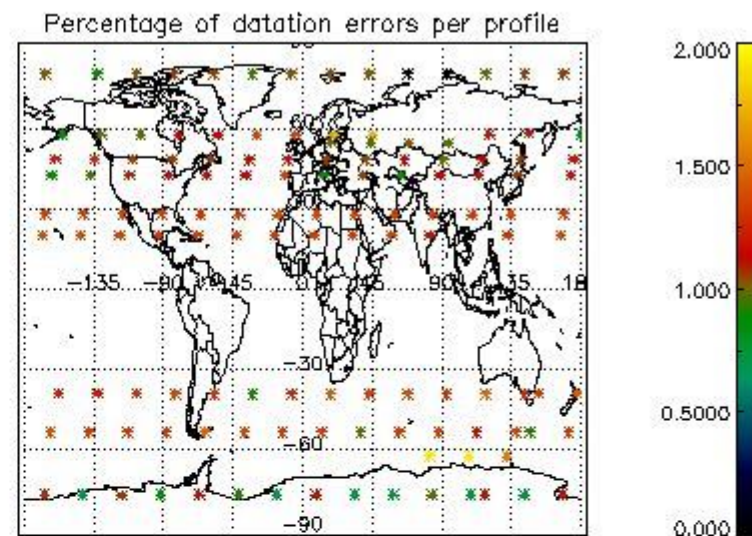
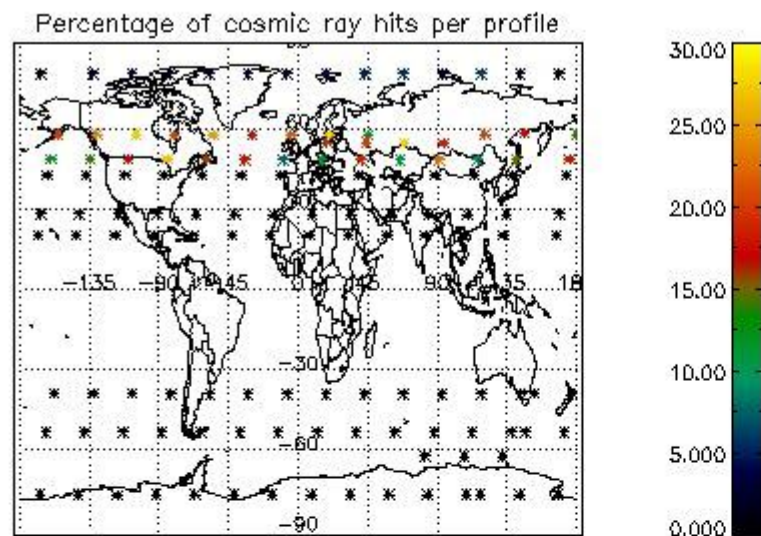
Percentage of star falling outside central band per profile



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

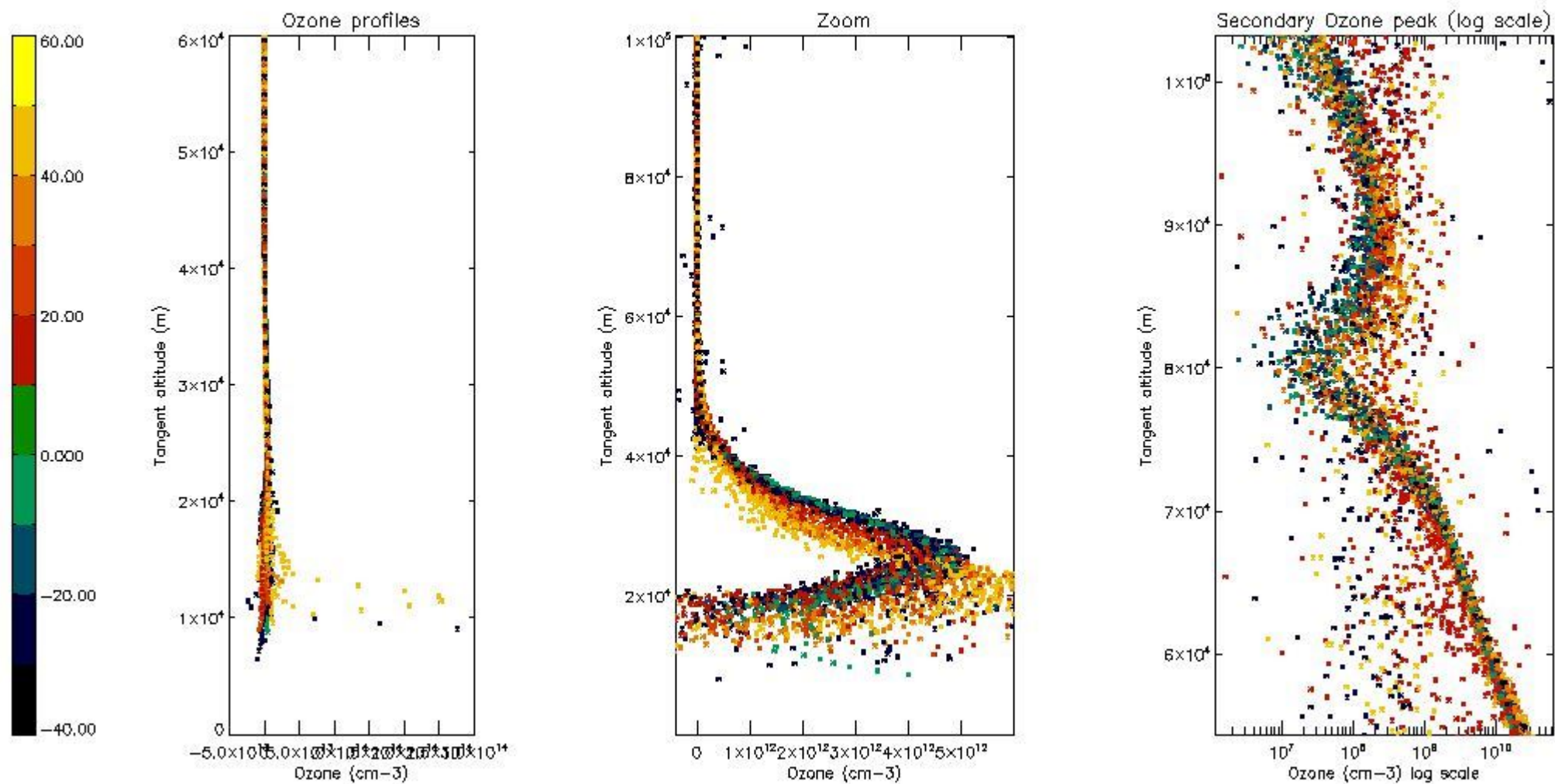
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	18

STD < 10	14
STD < 5	9

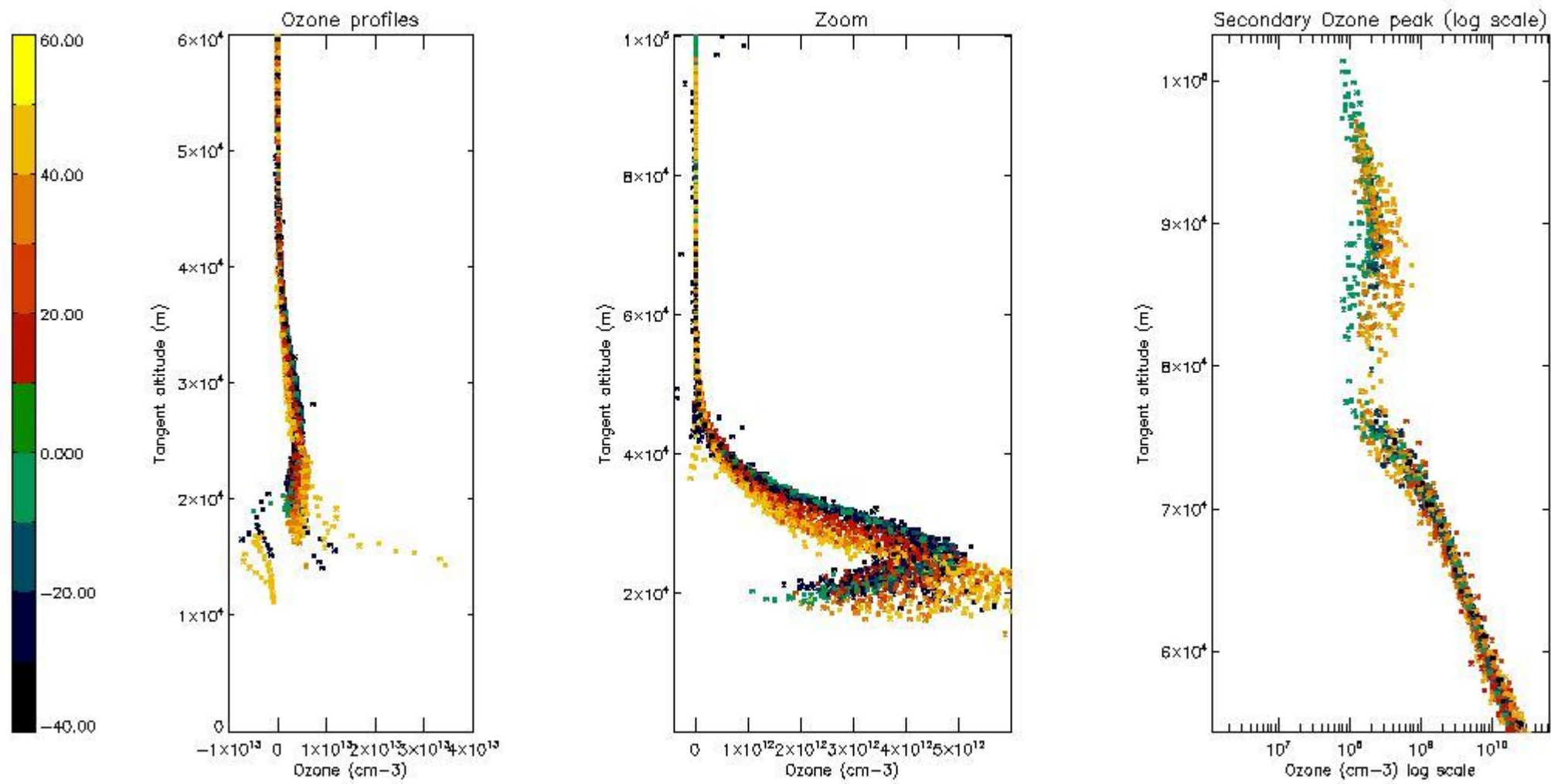
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



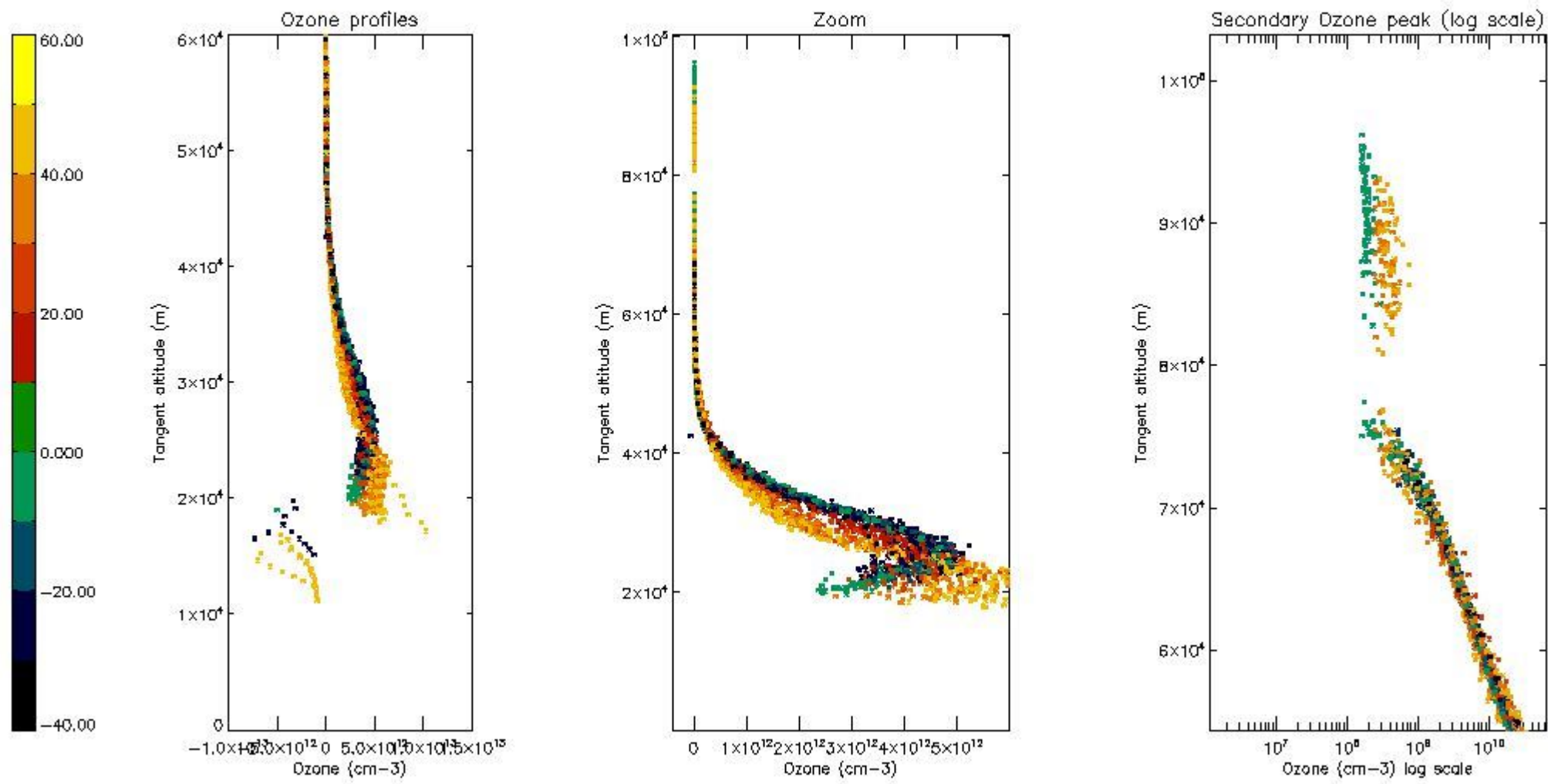
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



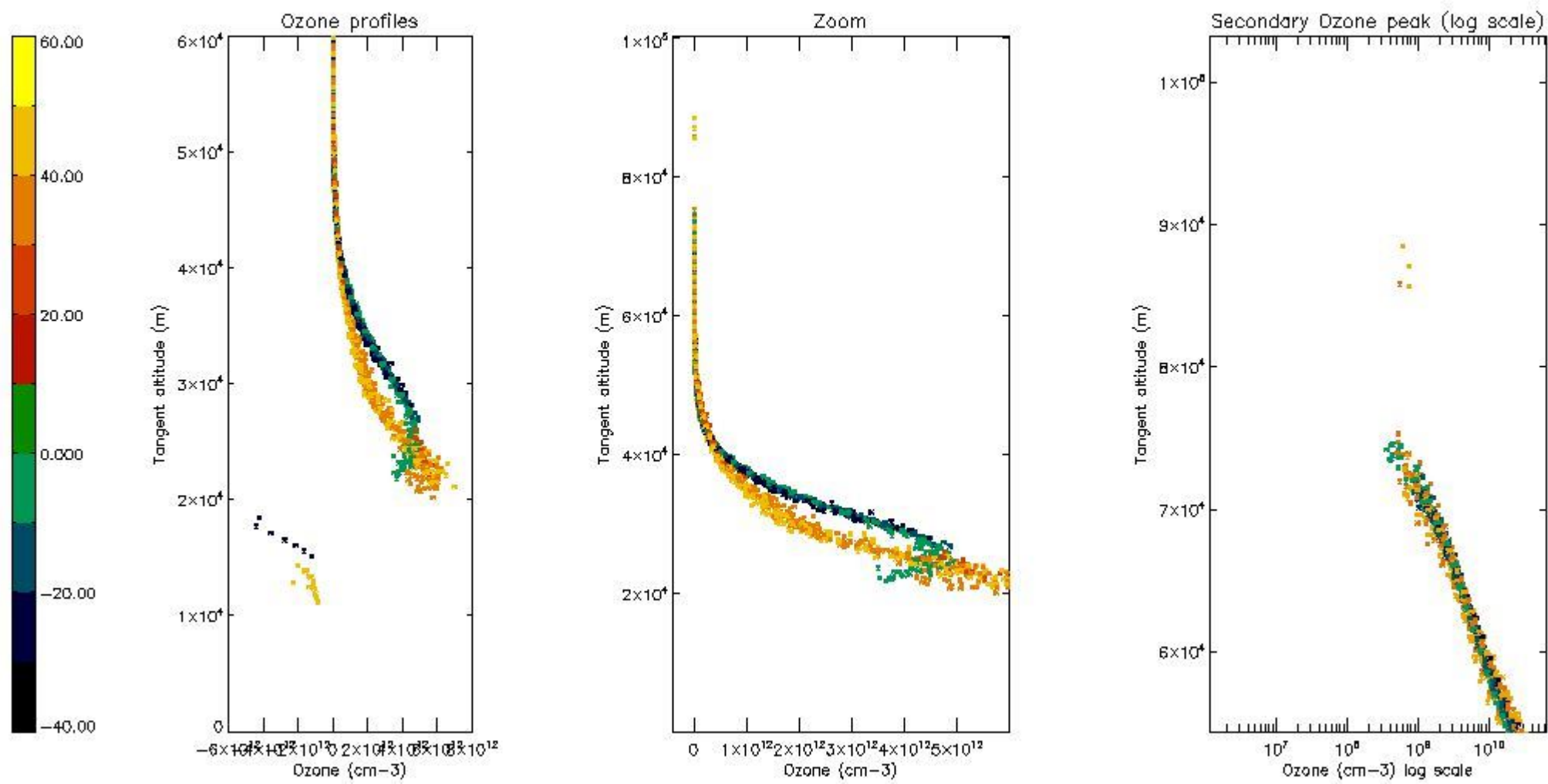
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



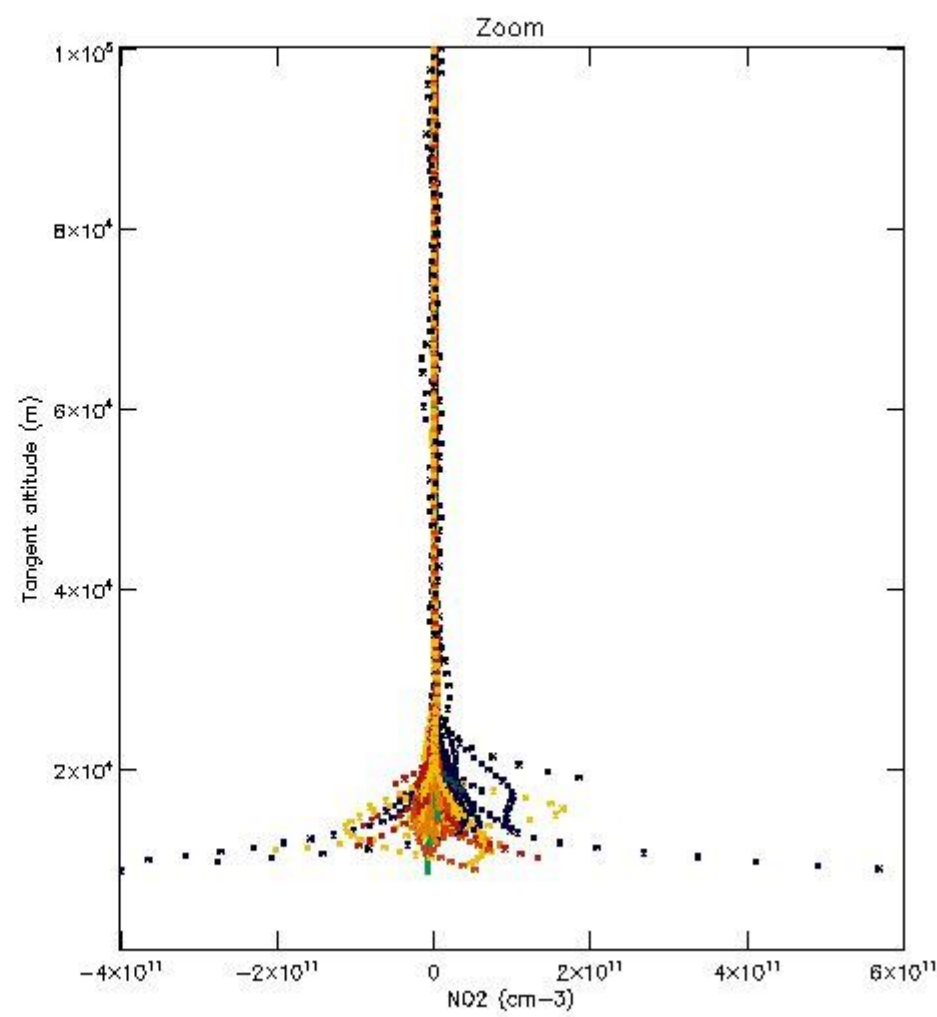
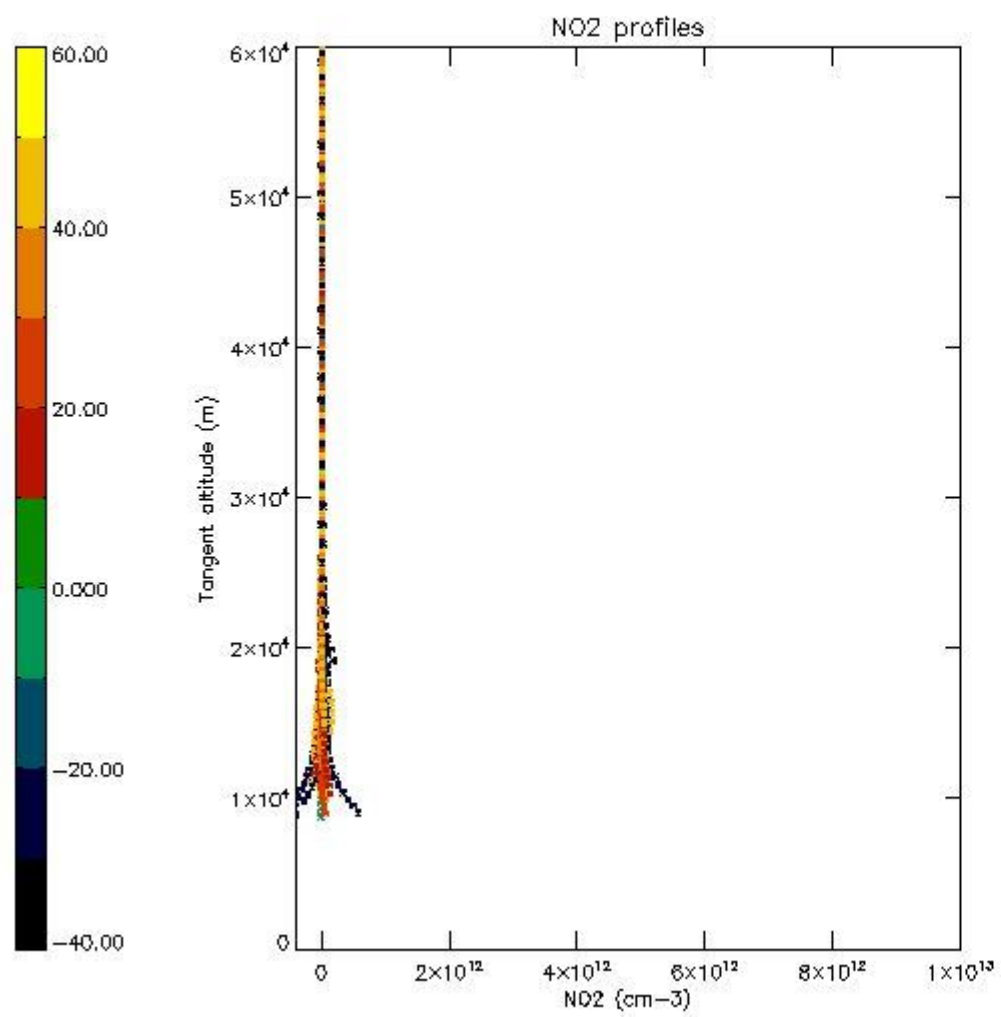
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



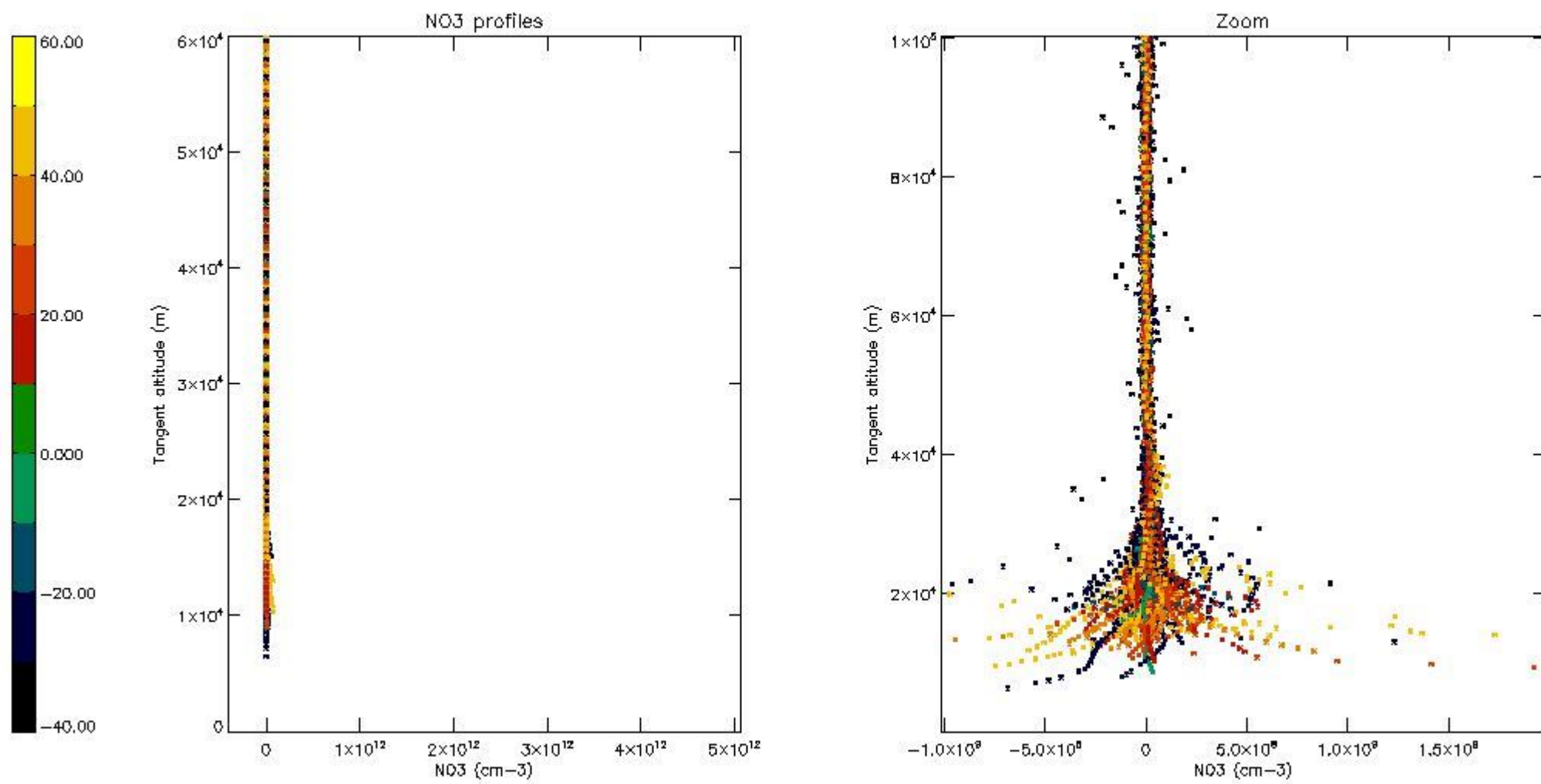
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



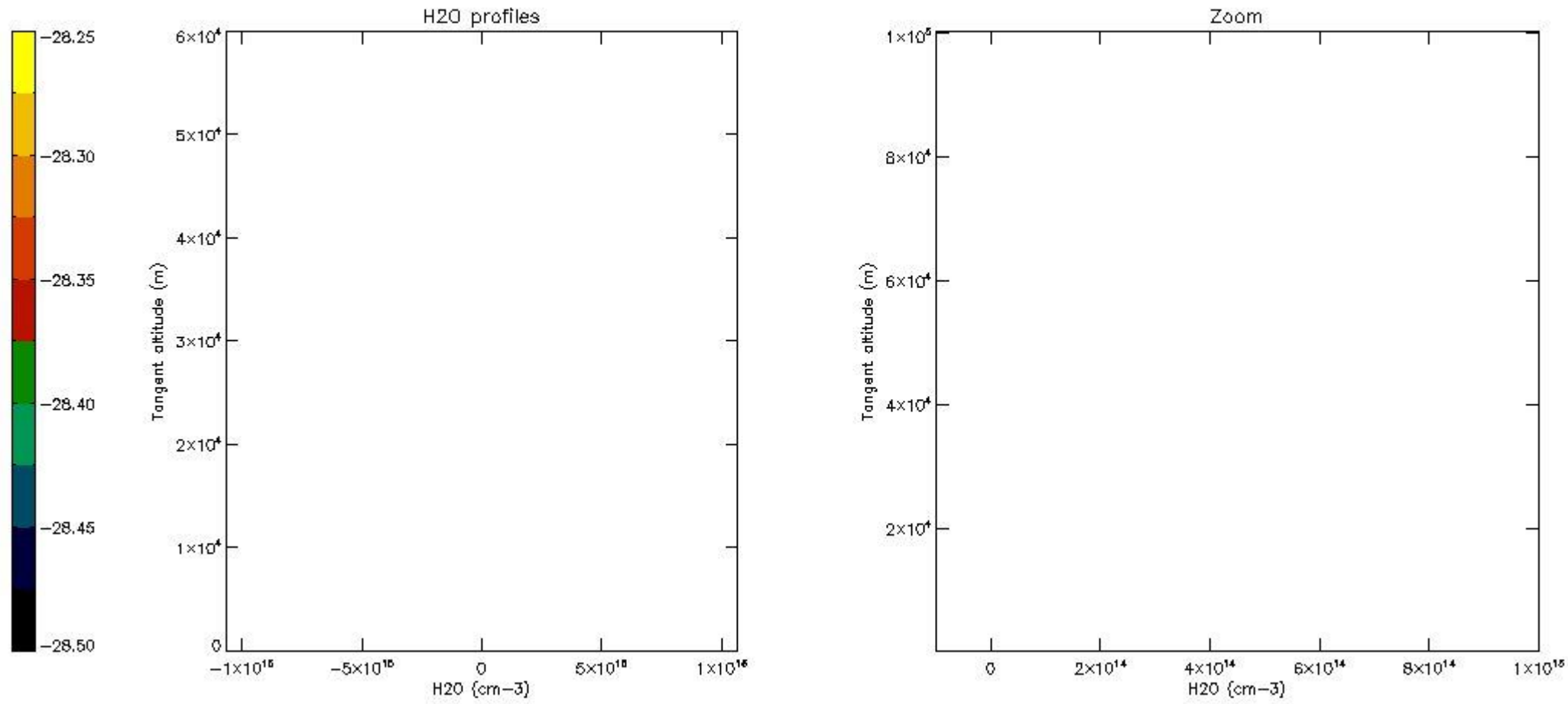
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

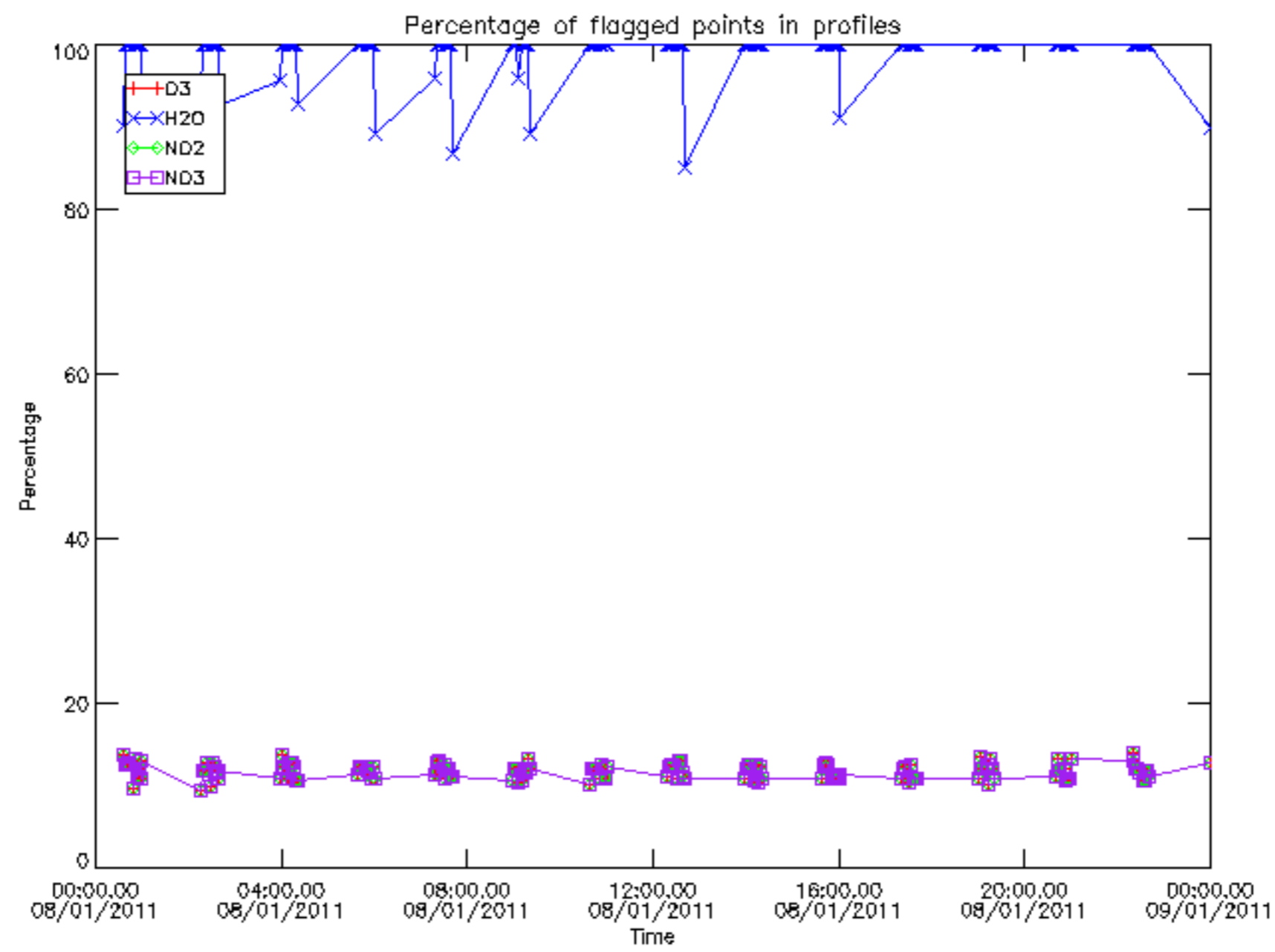
The colorbar represents the latitude.



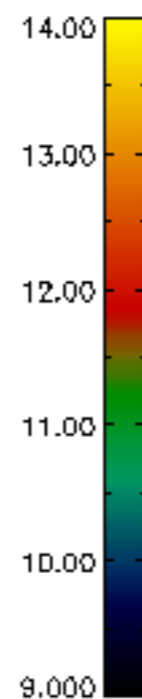
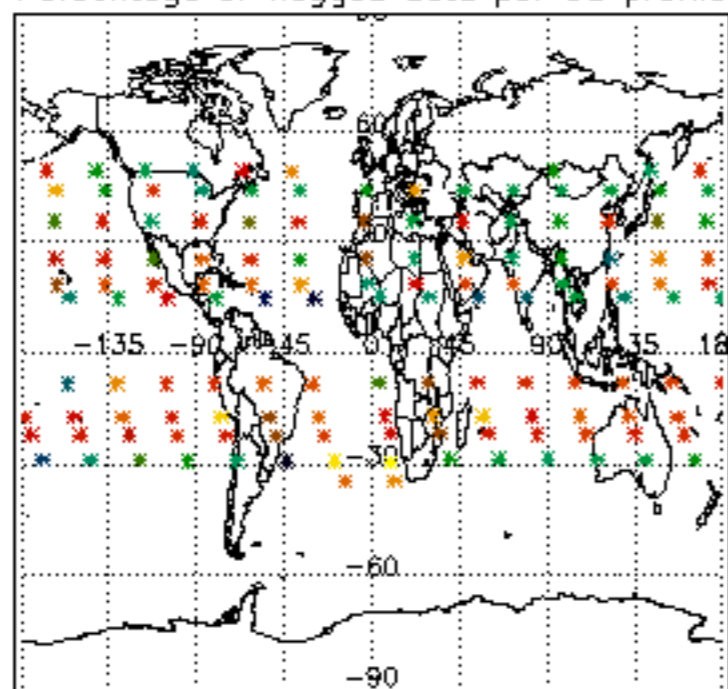
6. Auxiliary Data Files used for the production reported in section 2

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.

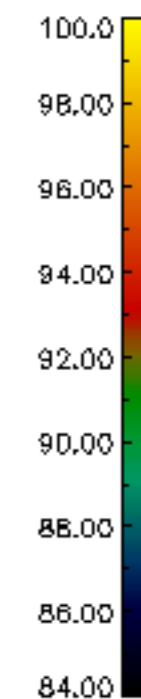
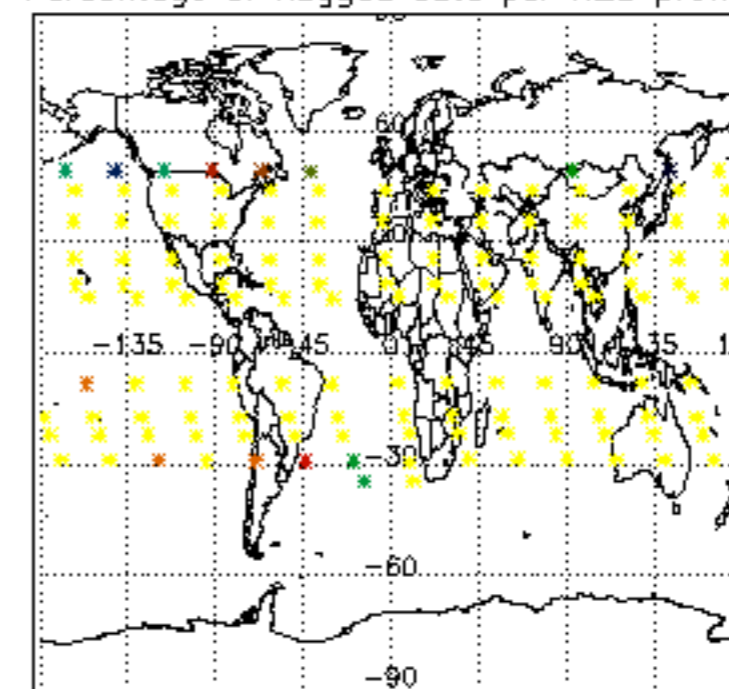
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	08-JAN-2011 00:00:40
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	08-JAN-2011 00:00:40
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	08-JAN-2011 00:00:40



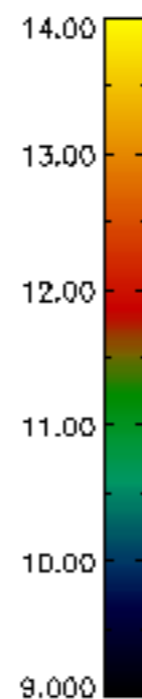
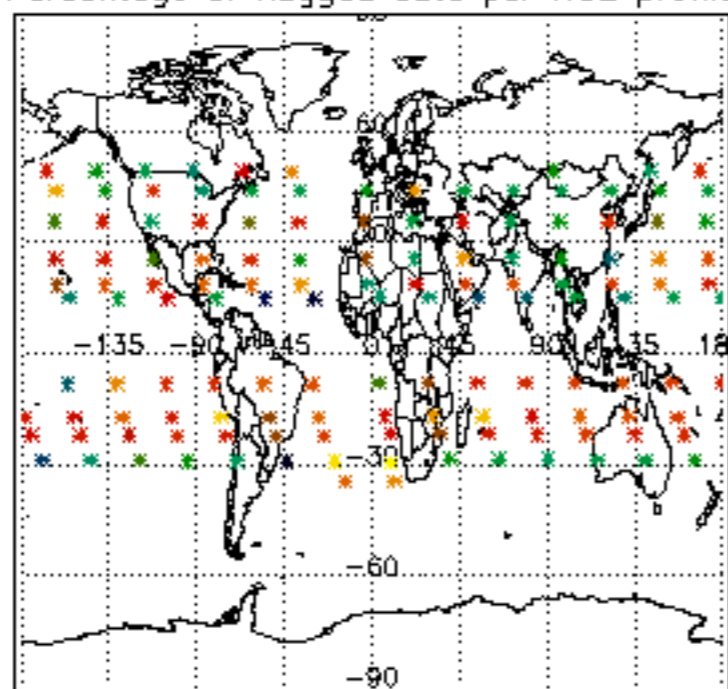
Percentage of flagged data per D3 profile



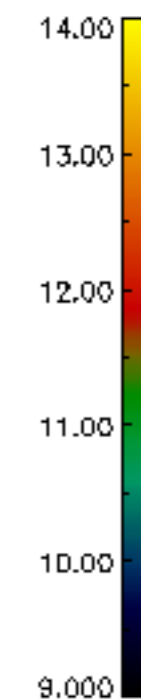
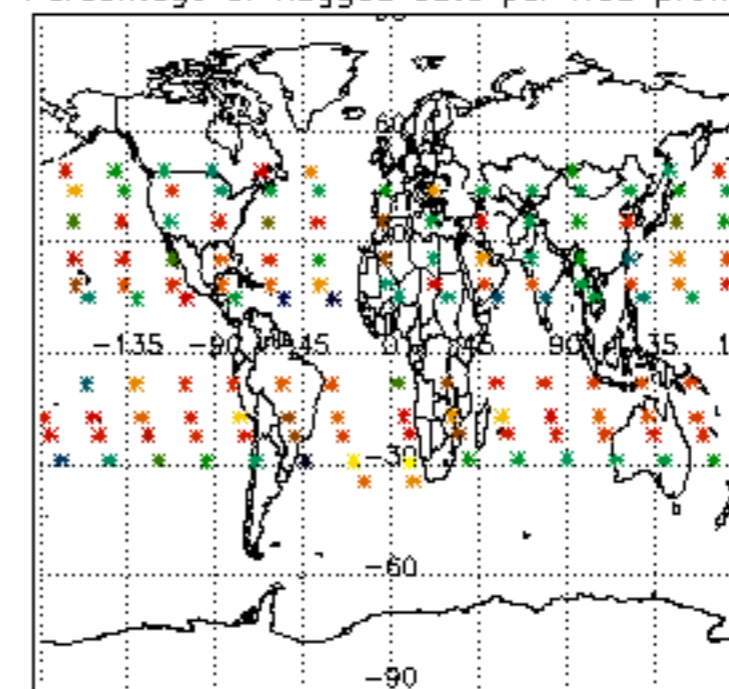
Percentage of flagged data per H2O profile

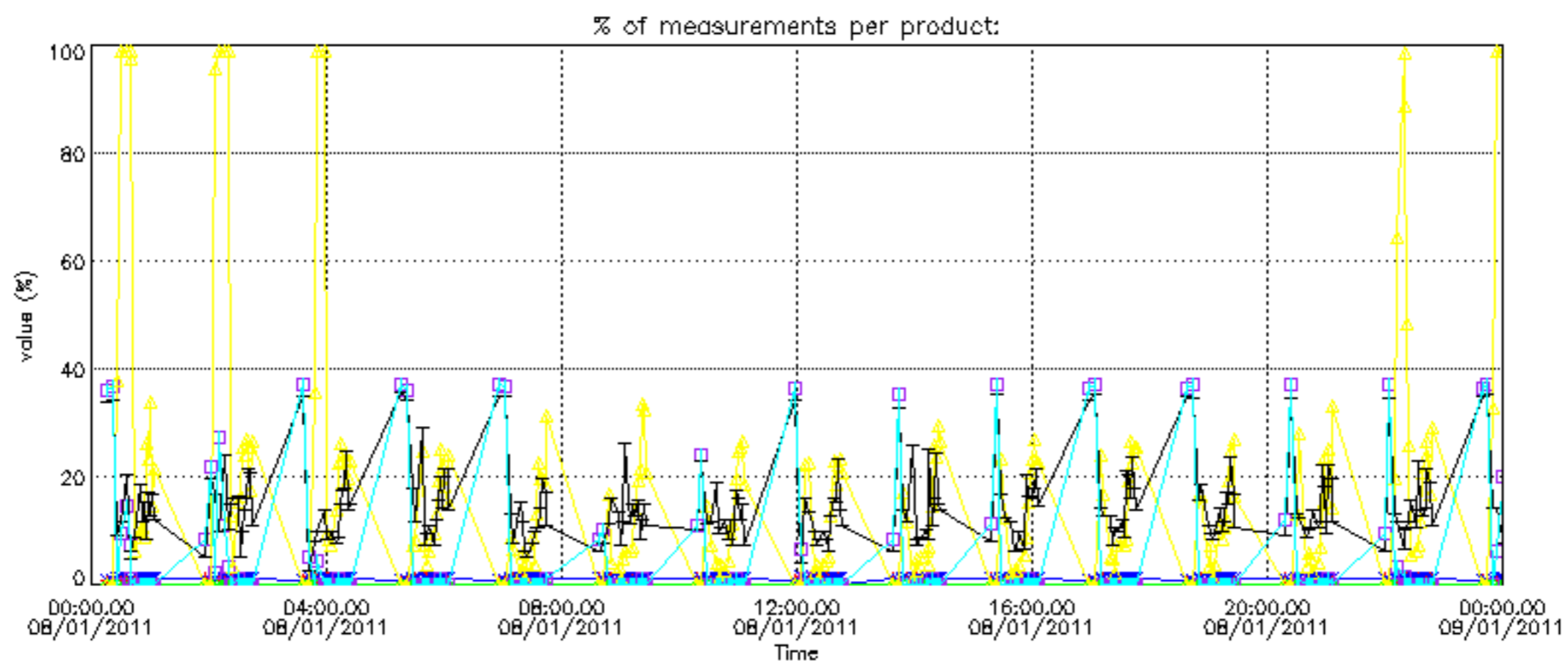
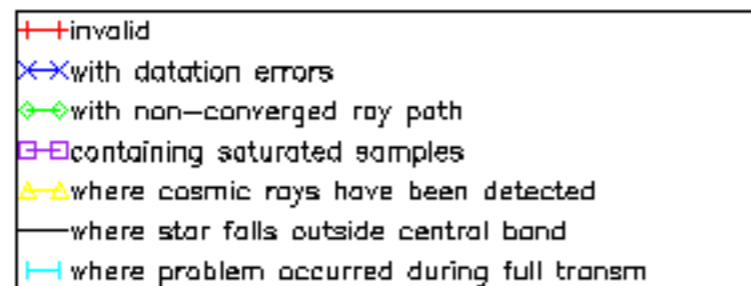


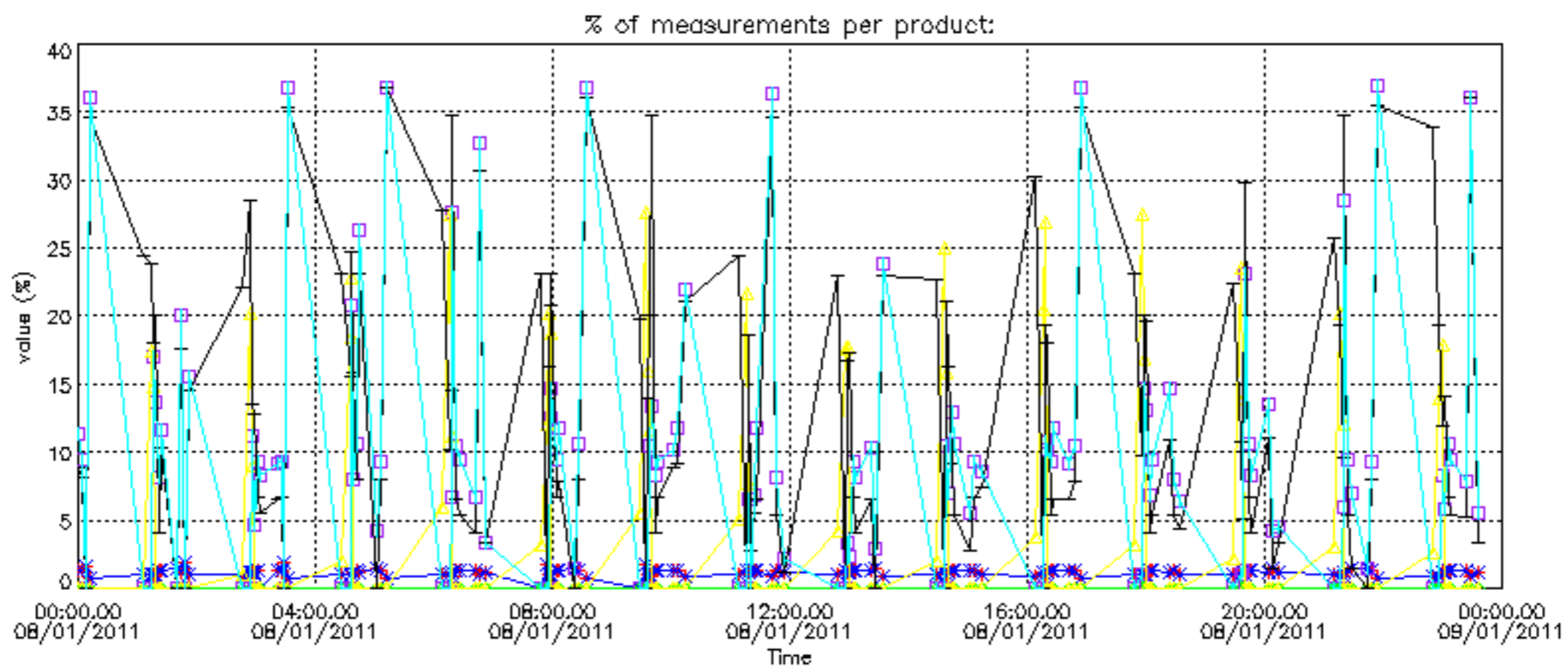
Percentage of flagged data per NO2 profile



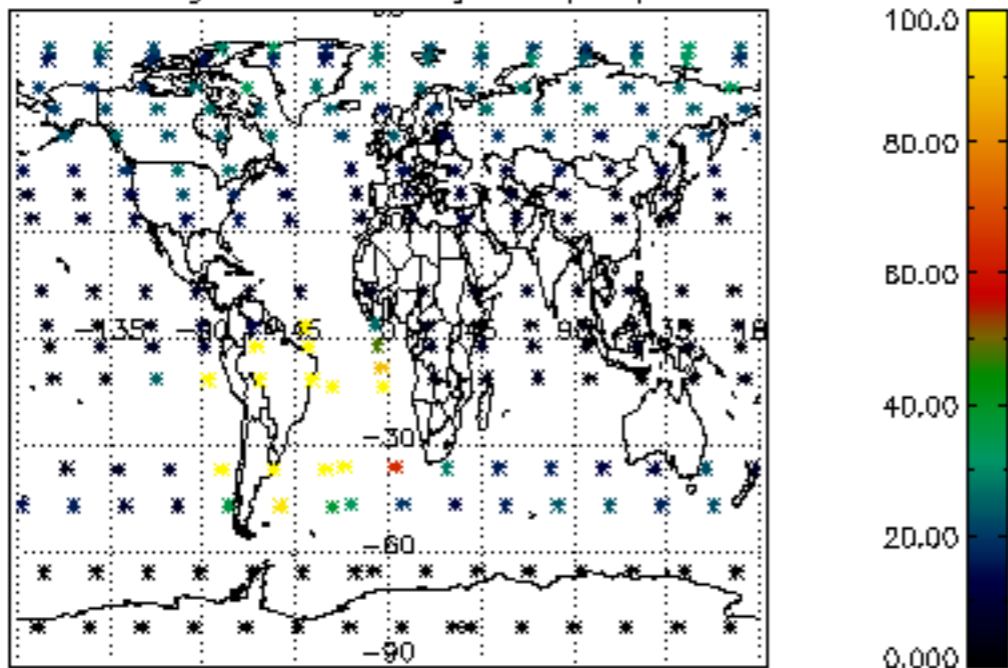
Percentage of flagged data per NO3 profile



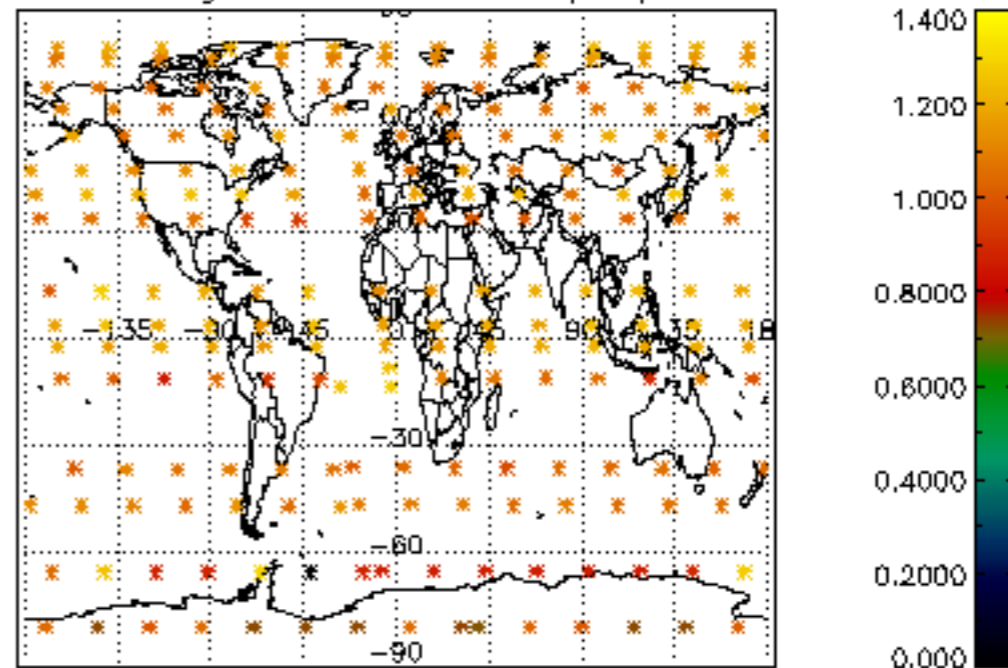




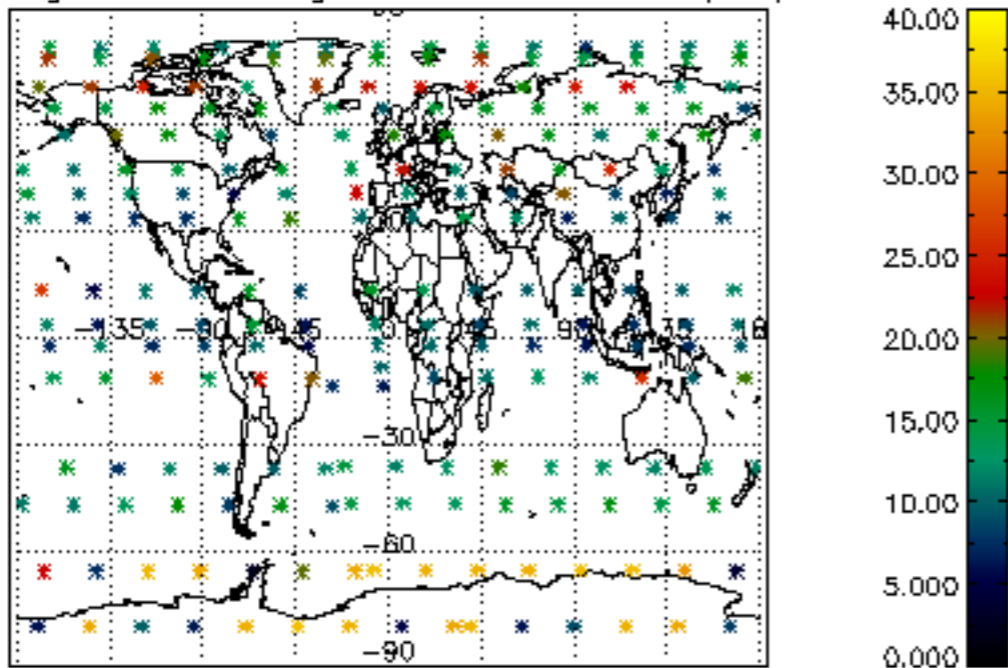
Percentage of cosmic ray hits per profile



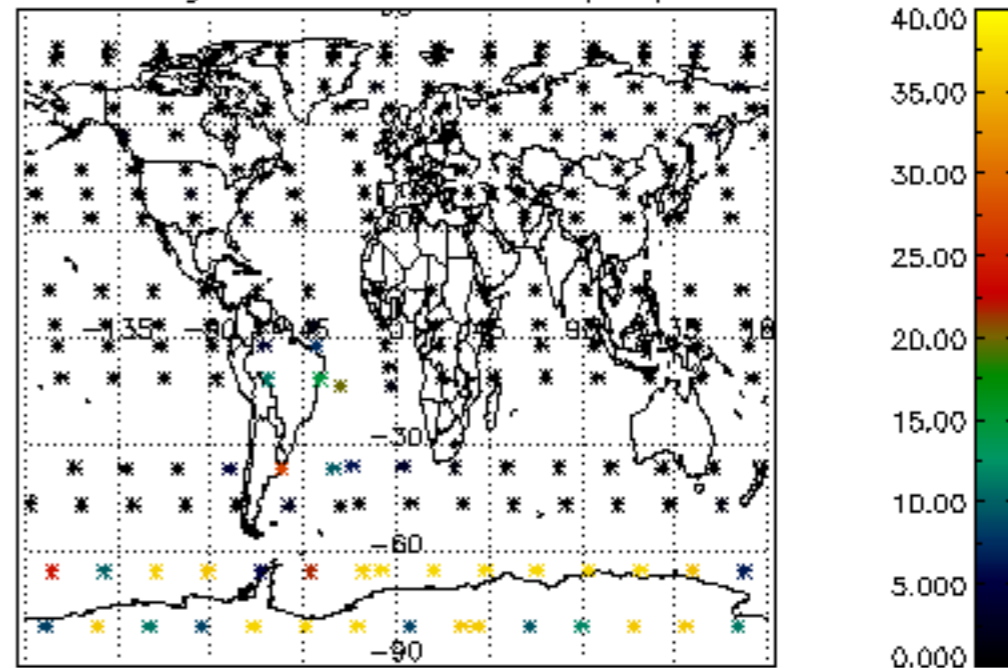
Percentage of datation errors per profile



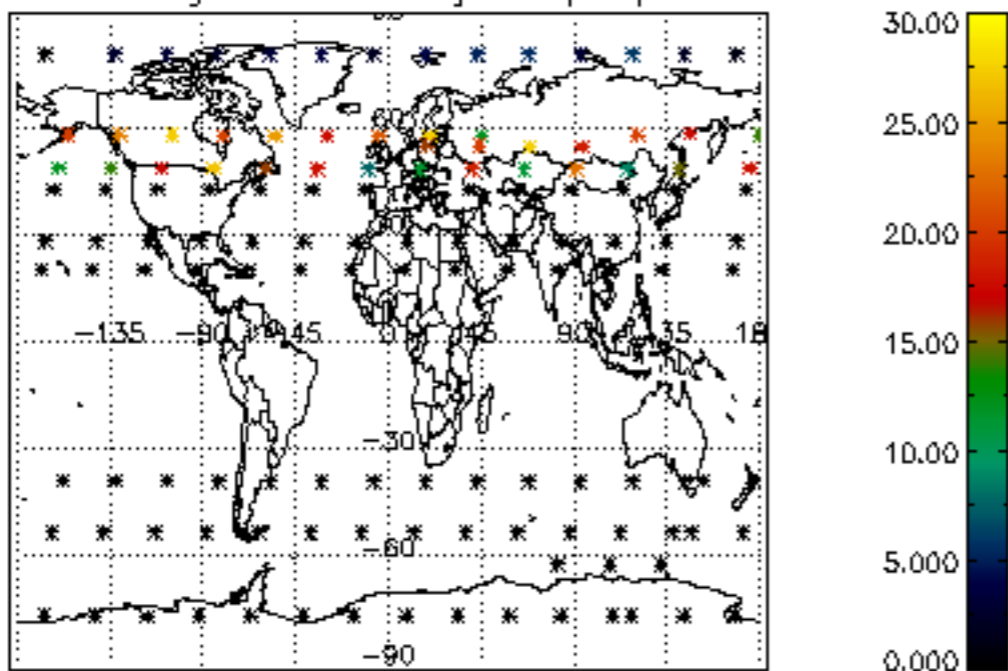
Percentage of star falling outside central band per profile



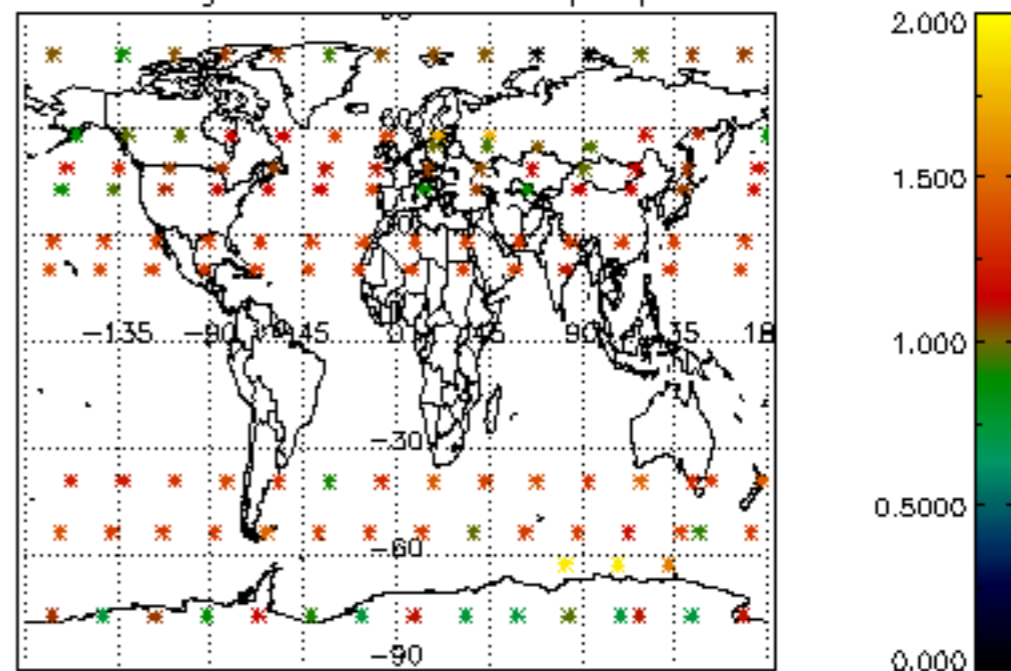
Percentage of saturation errors per profile



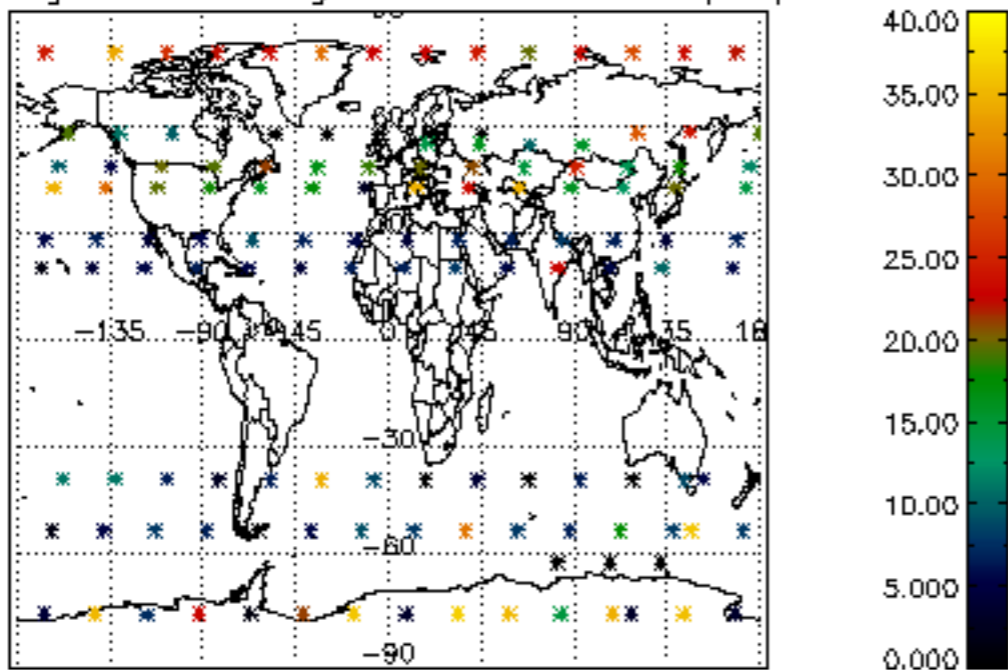
Percentage of cosmic ray hits per profile



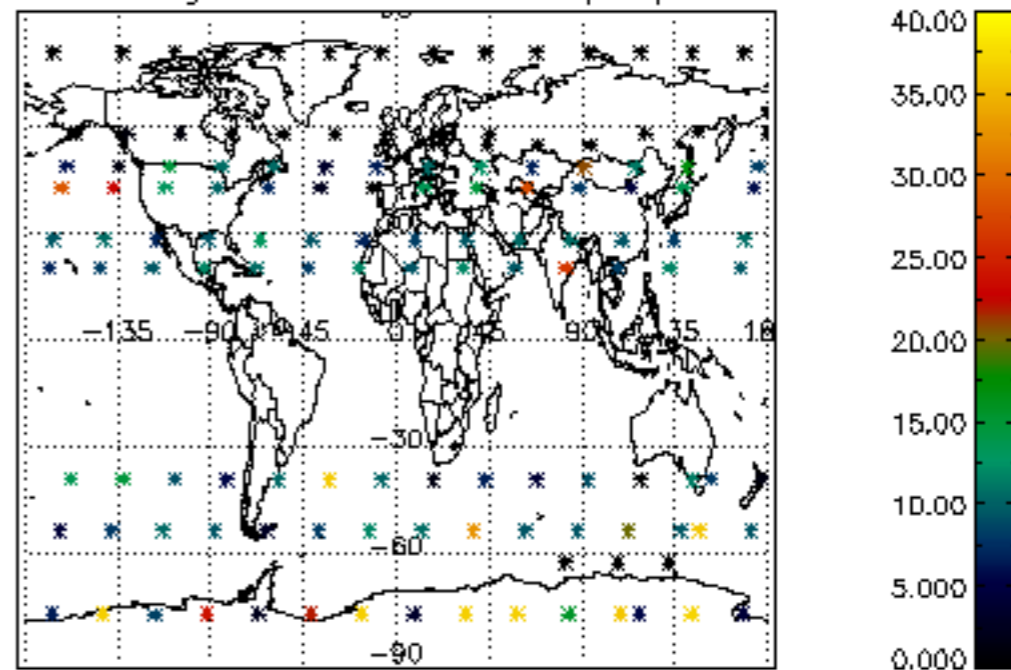
Percentage of datation errors per profile

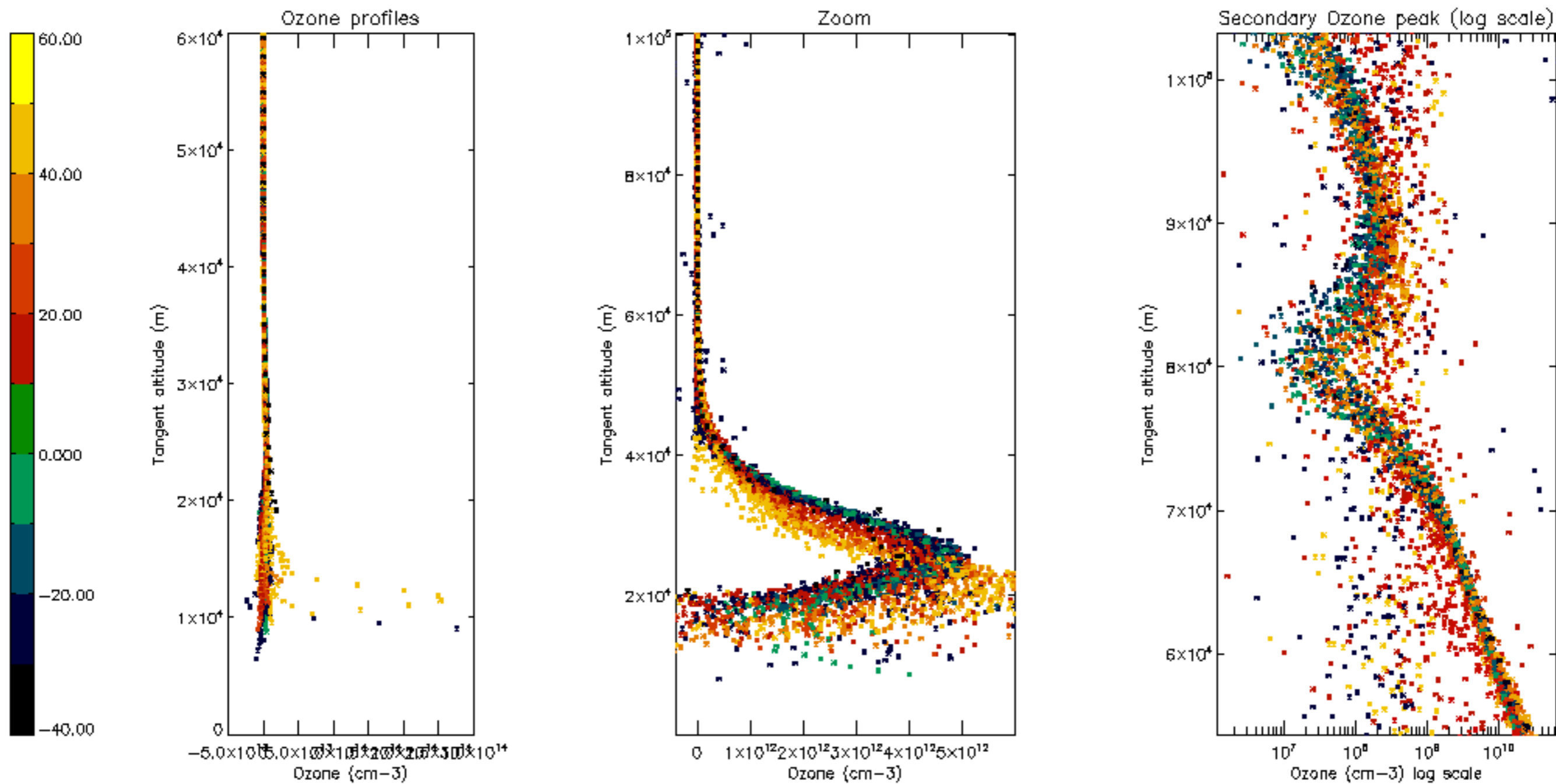


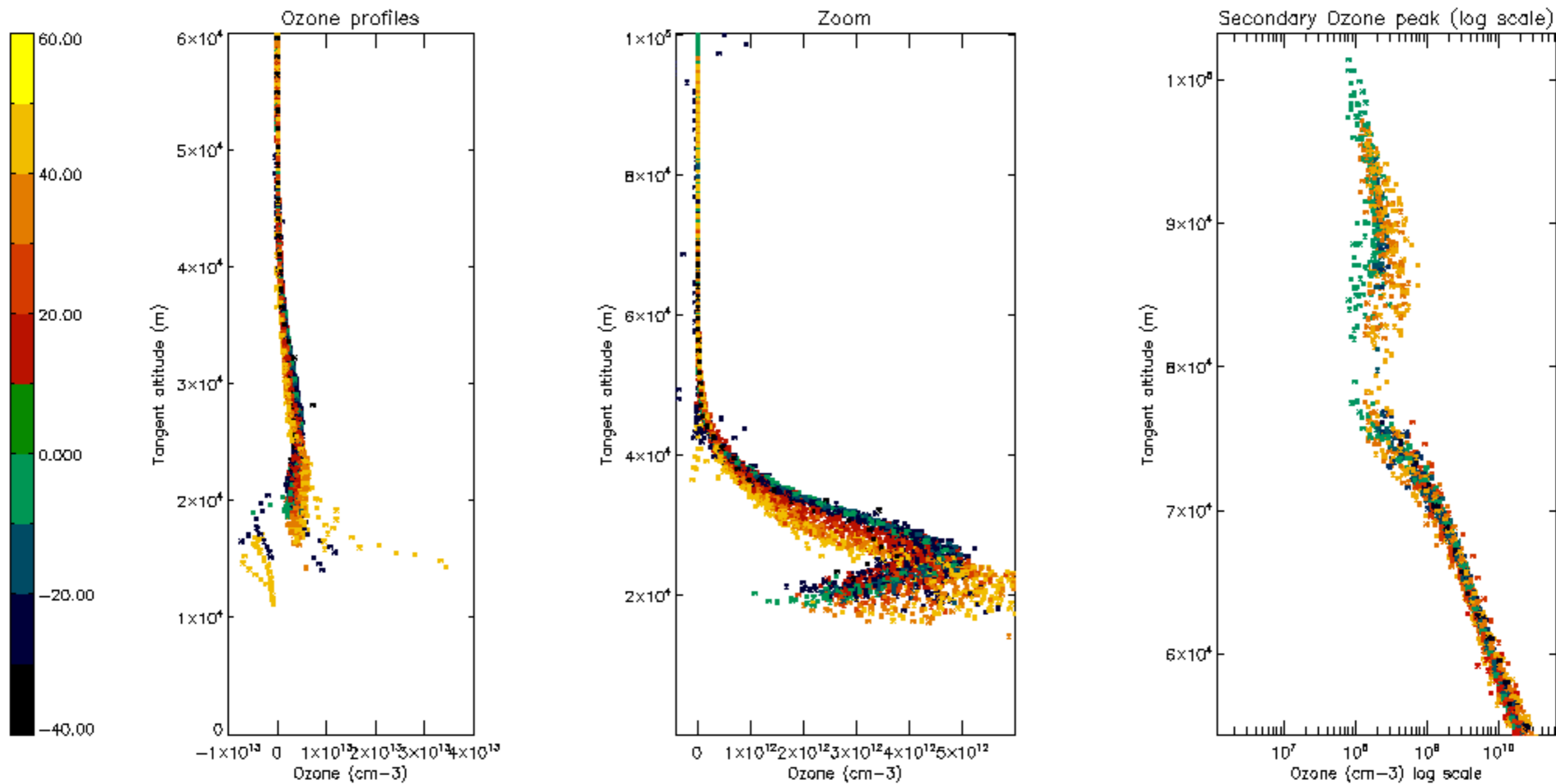
Percentage of star falling outside central band per profile

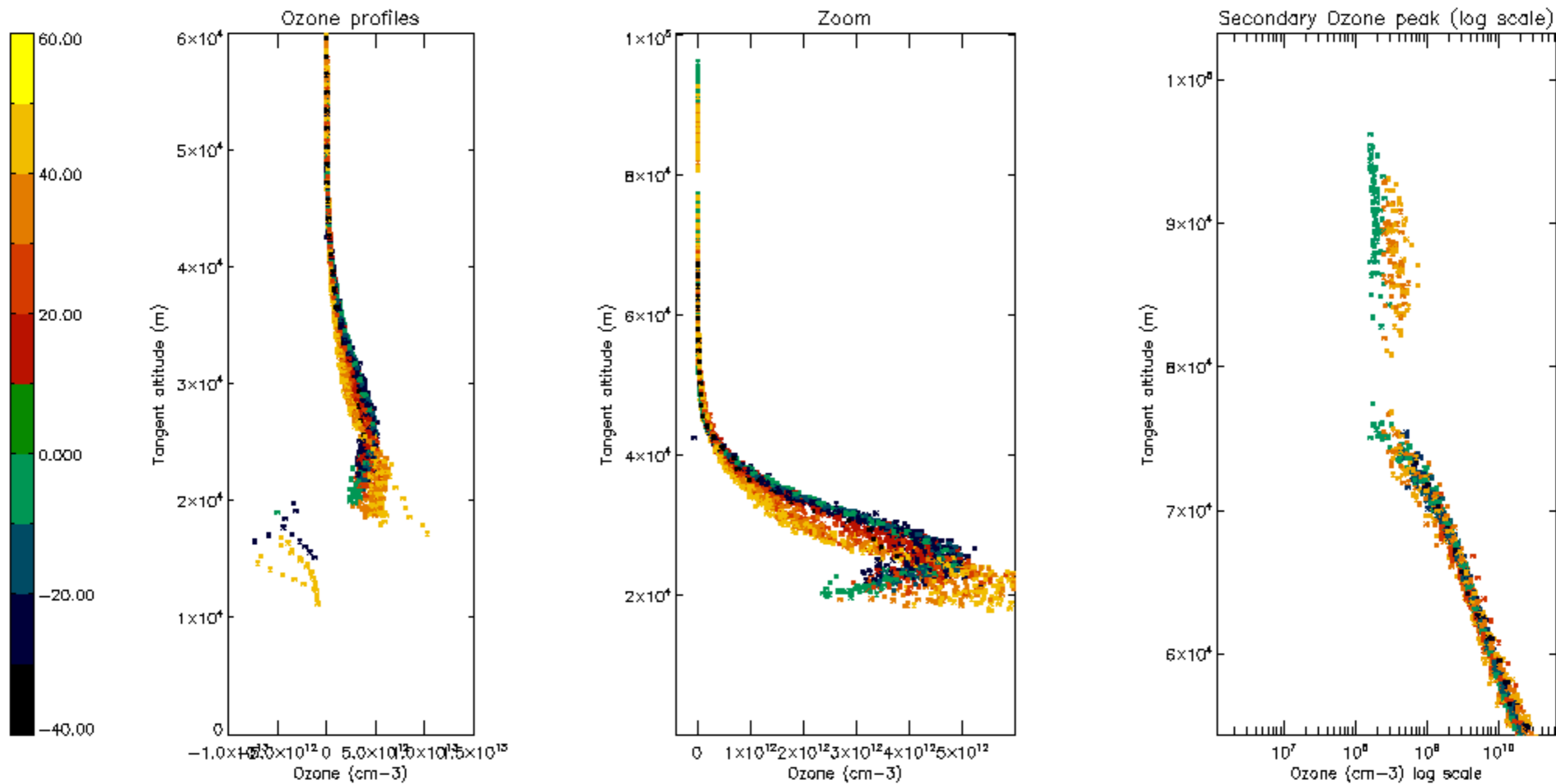


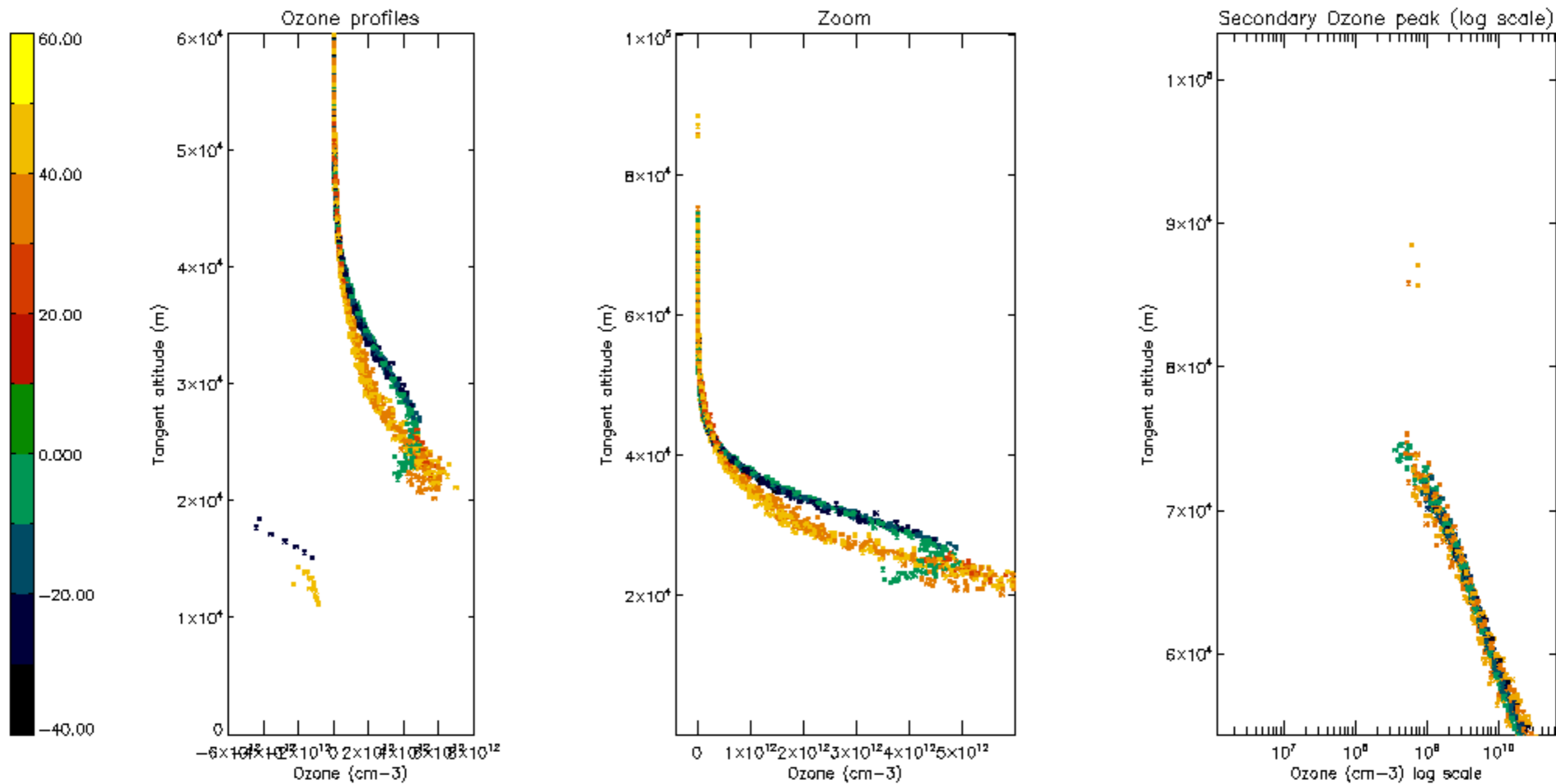
Percentage of saturation errors per profile

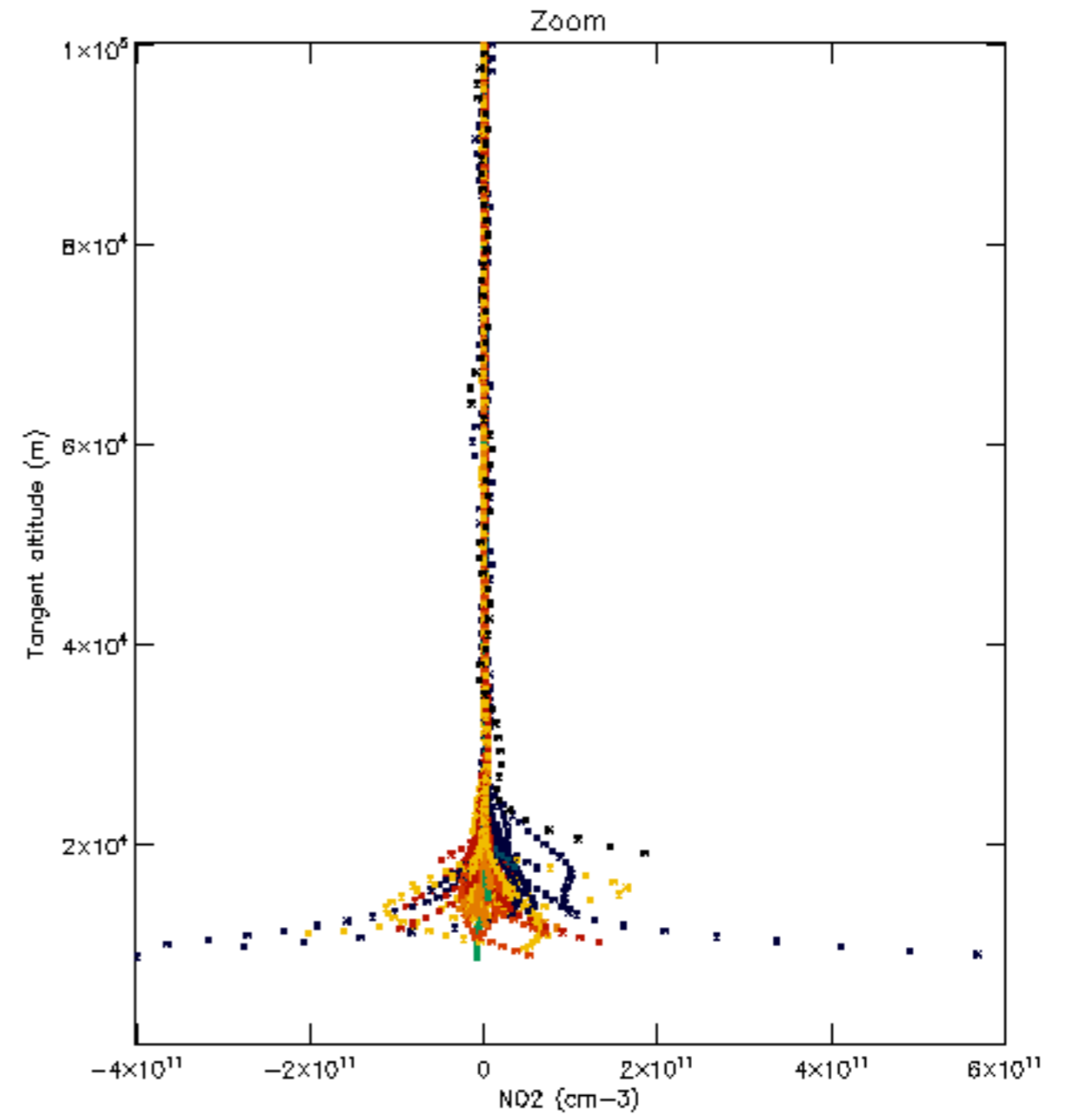
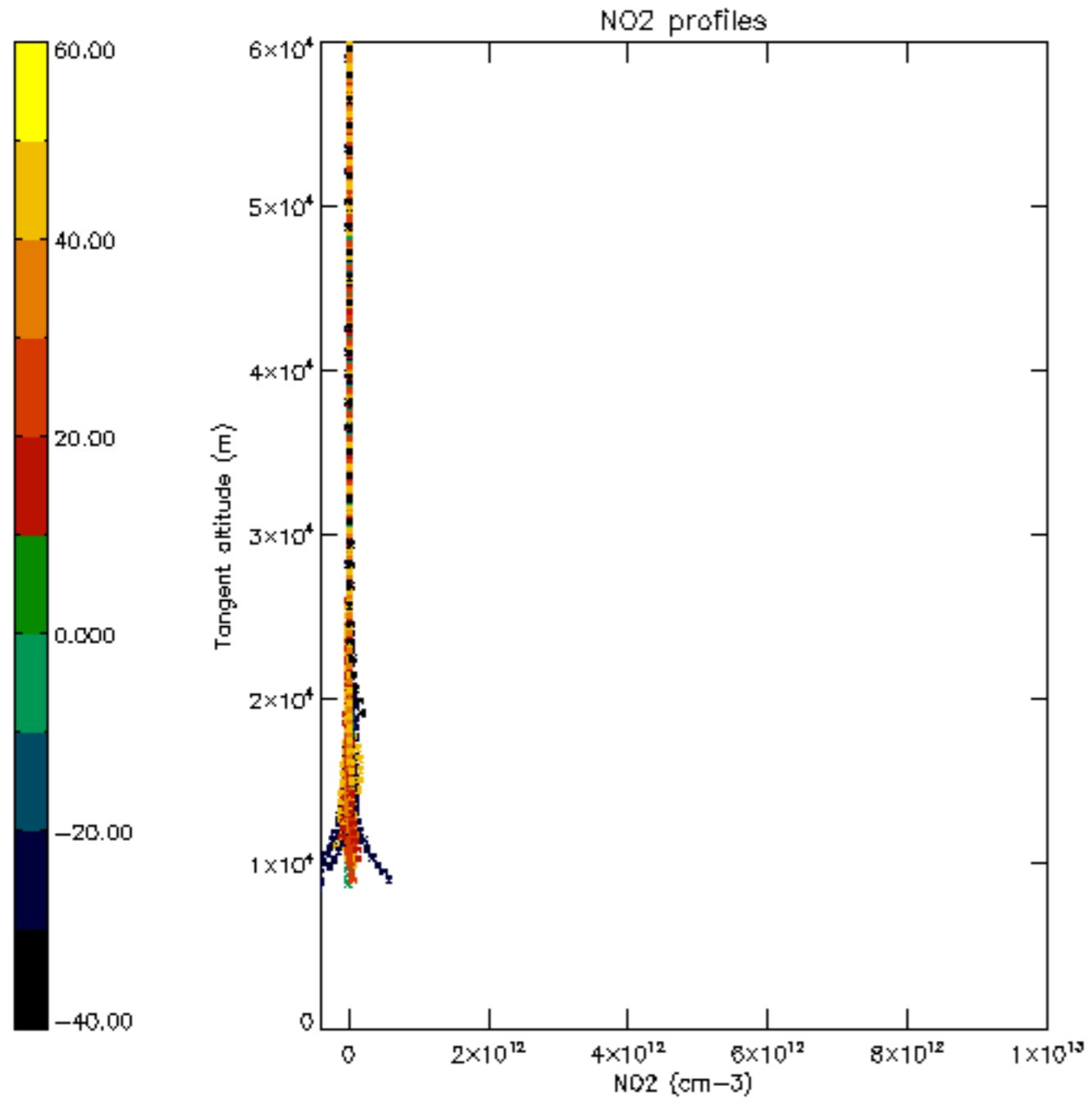


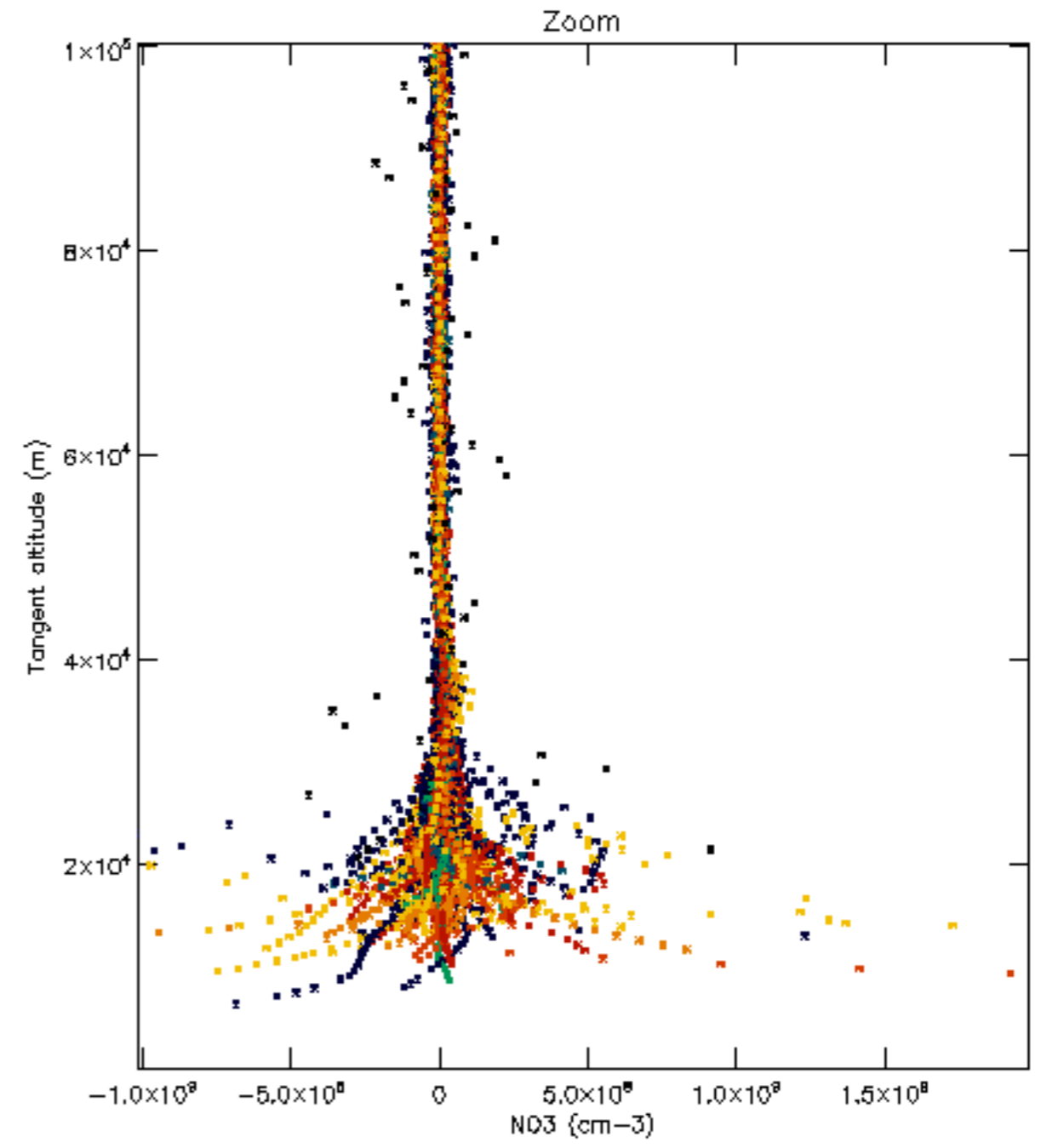
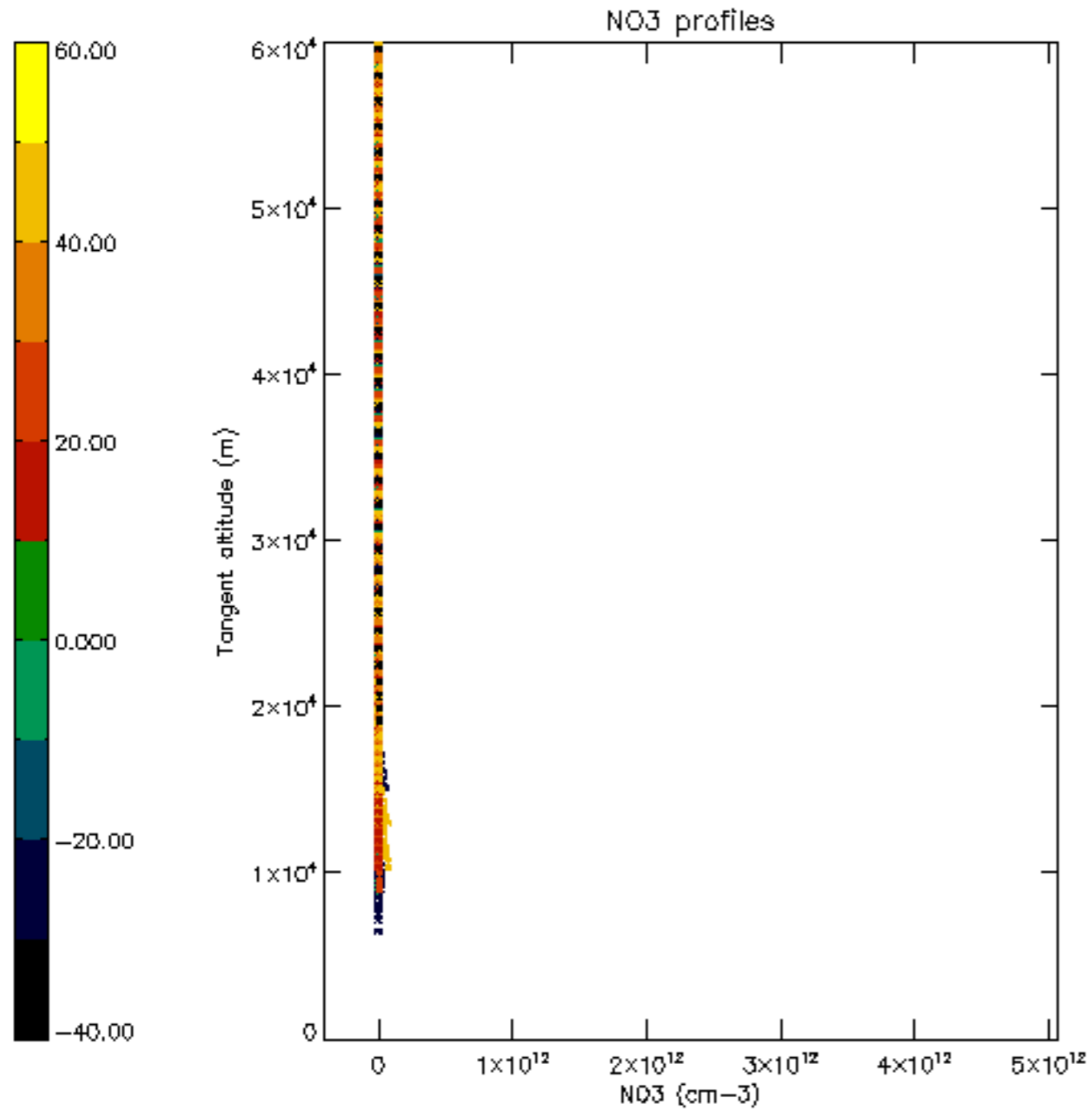


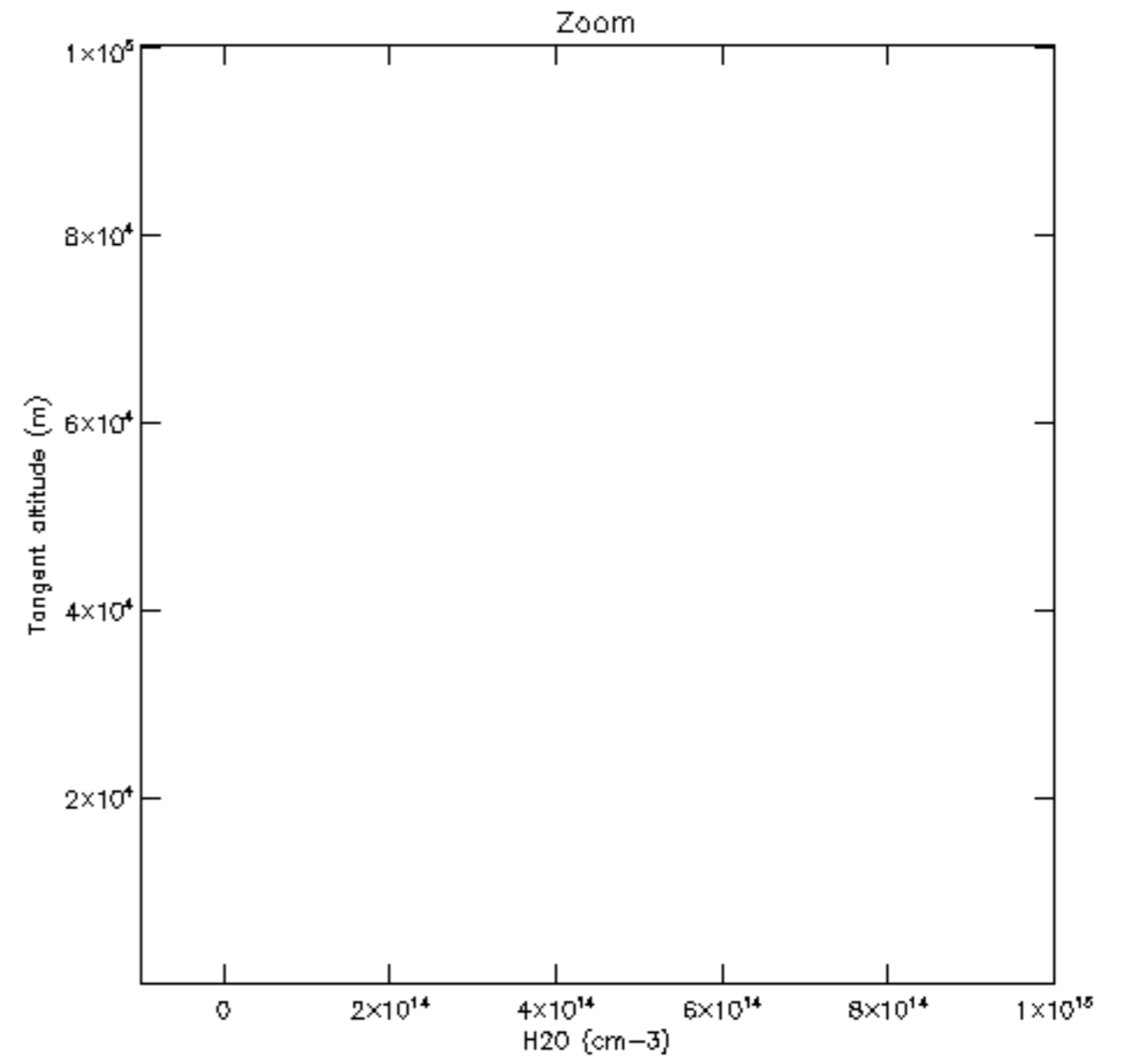
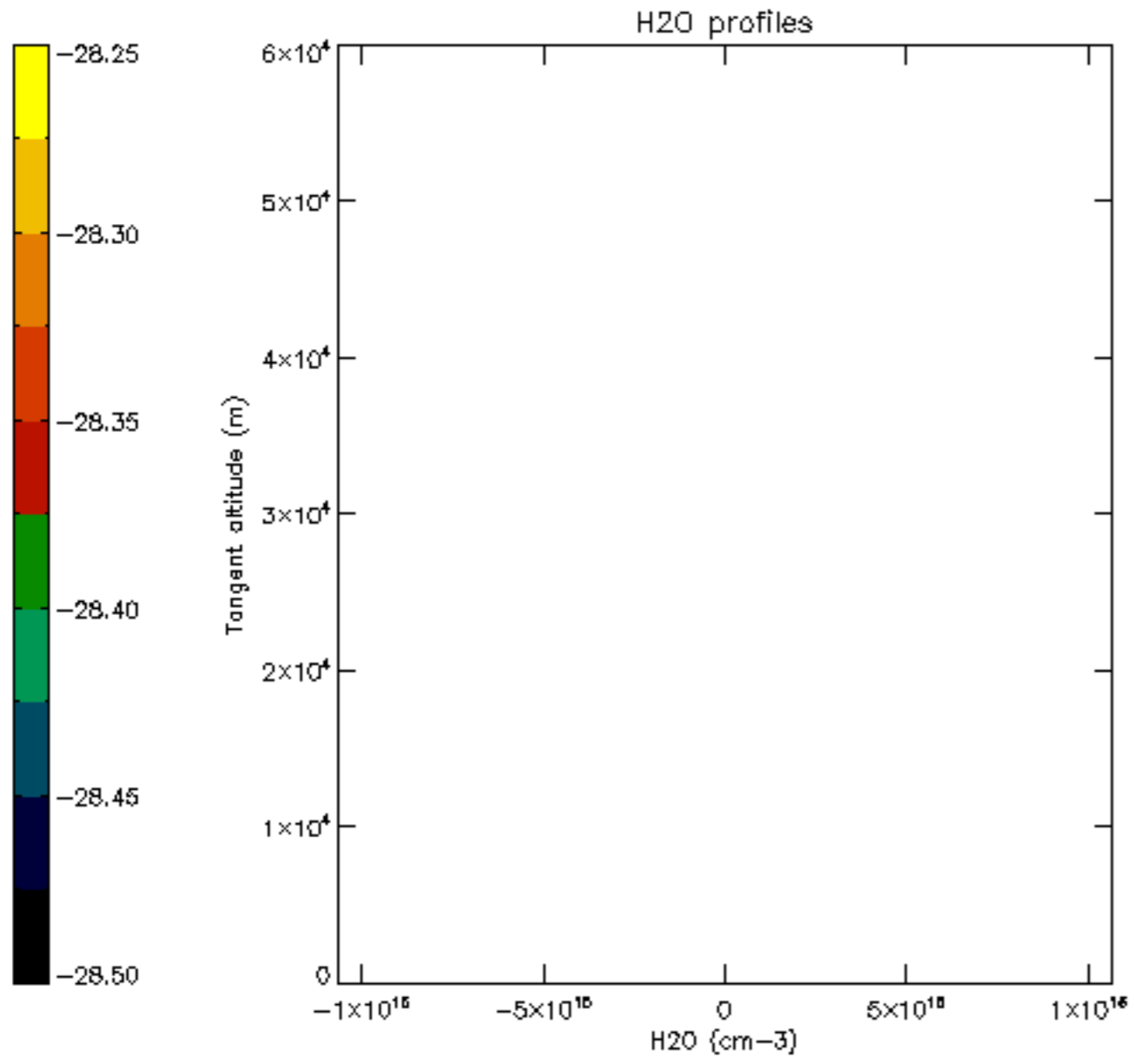


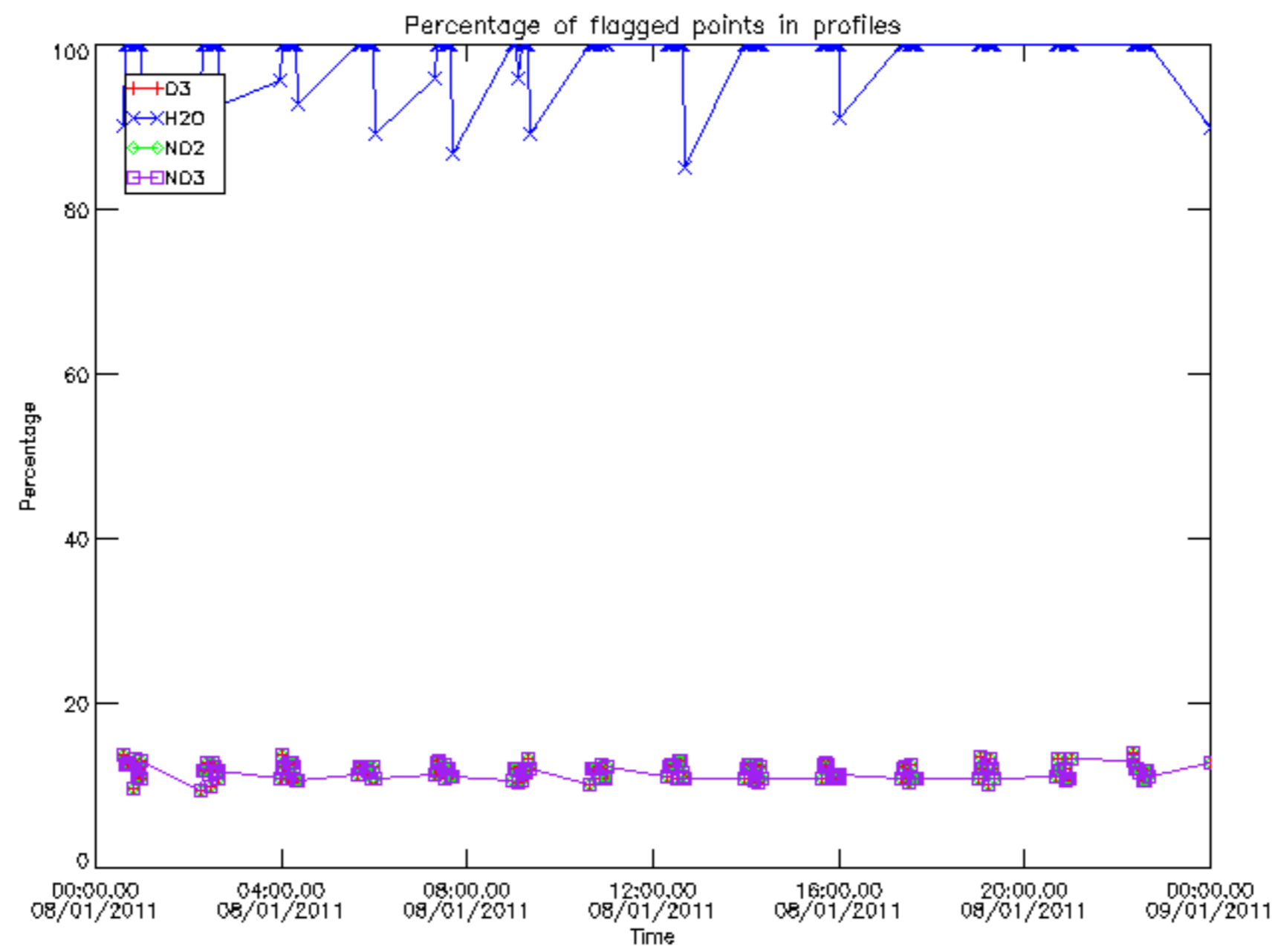




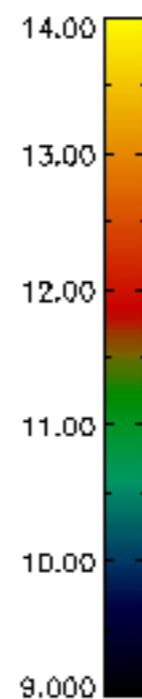
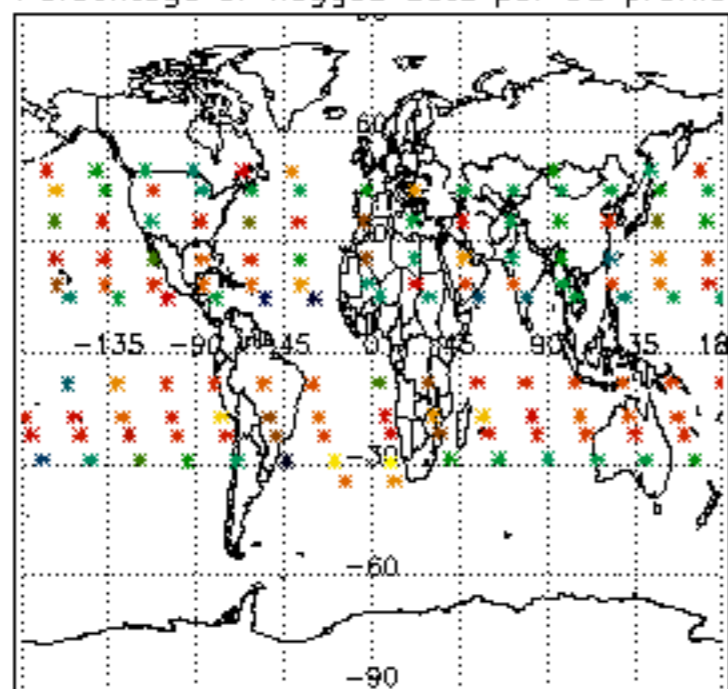




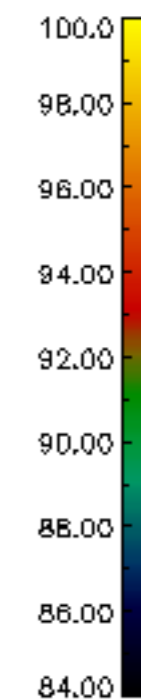
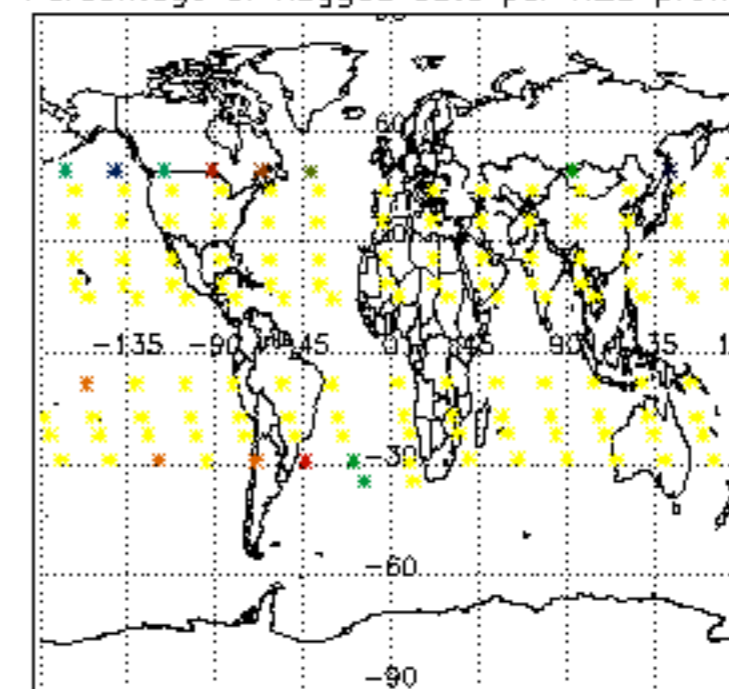




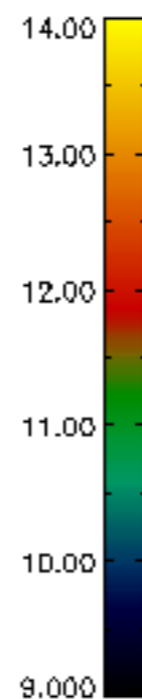
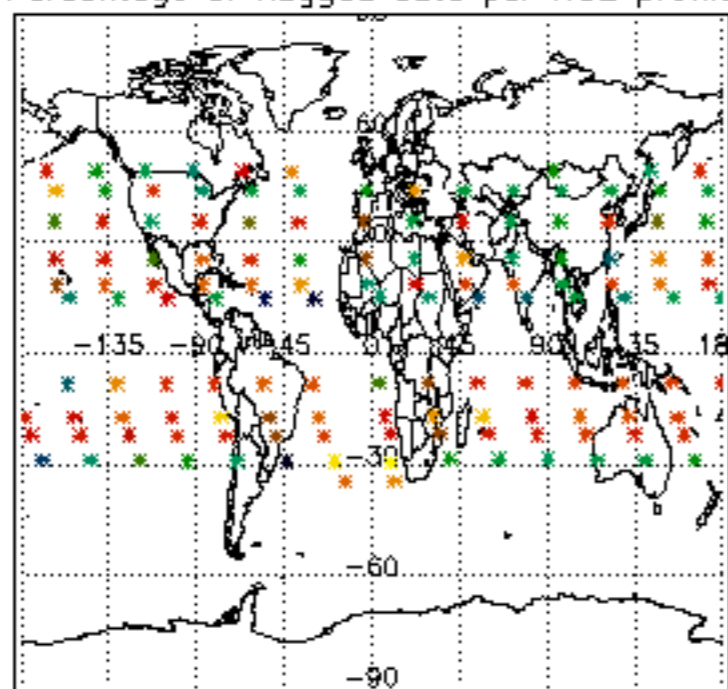
Percentage of flagged data per D3 profile



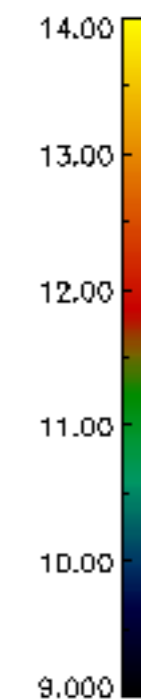
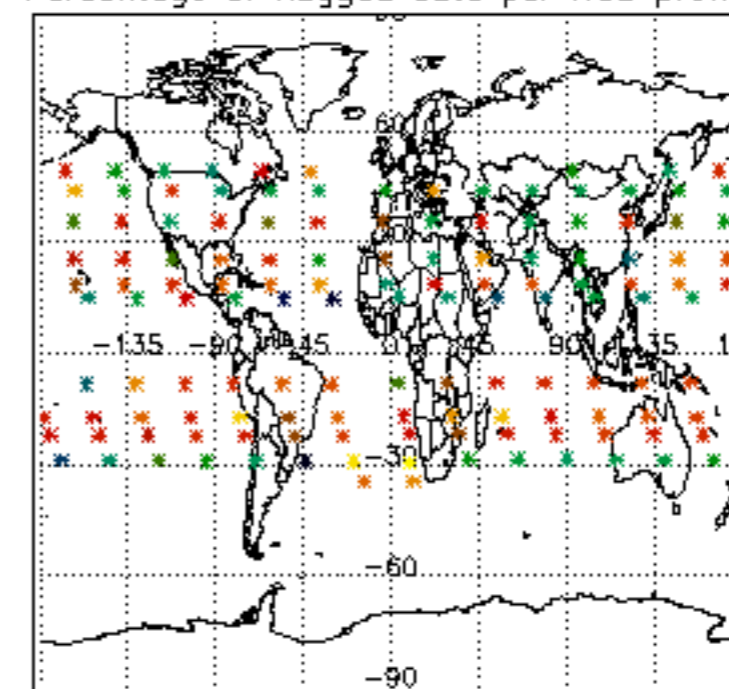
Percentage of flagged data per H2O profile

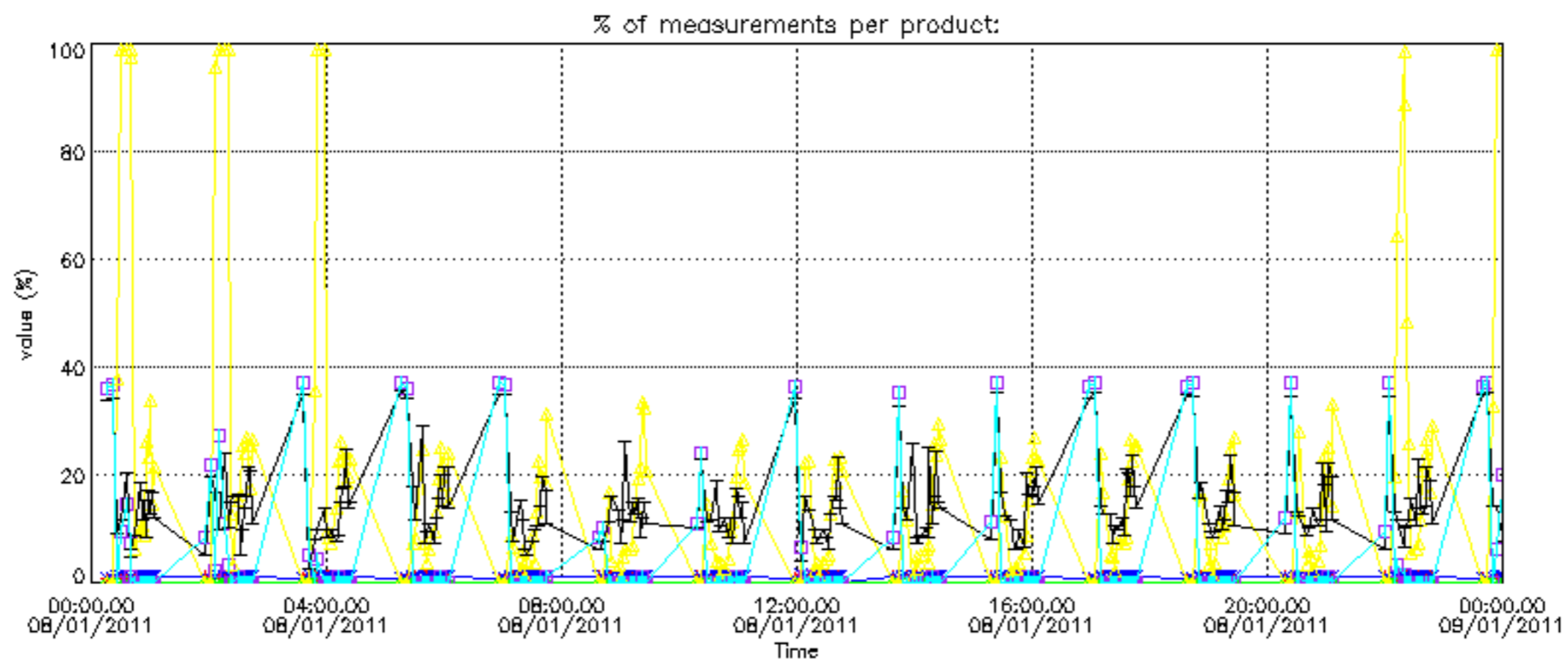
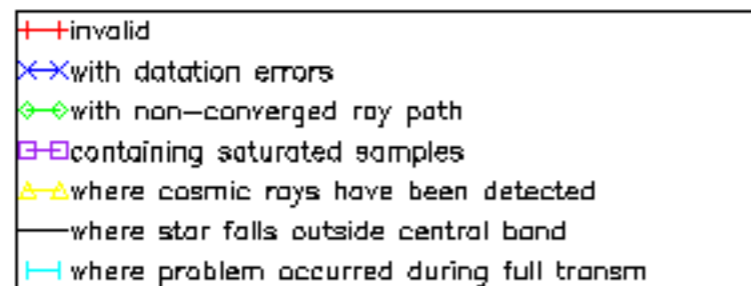


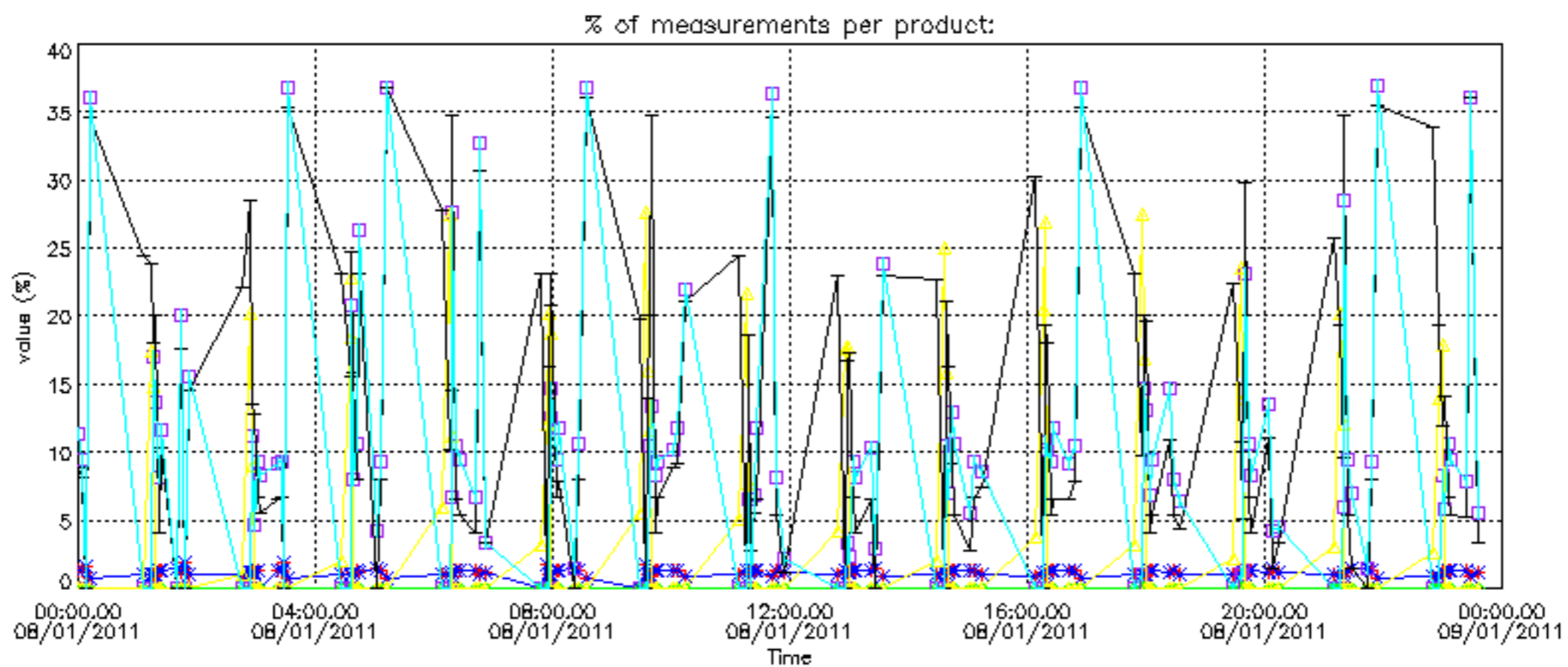
Percentage of flagged data per NO2 profile



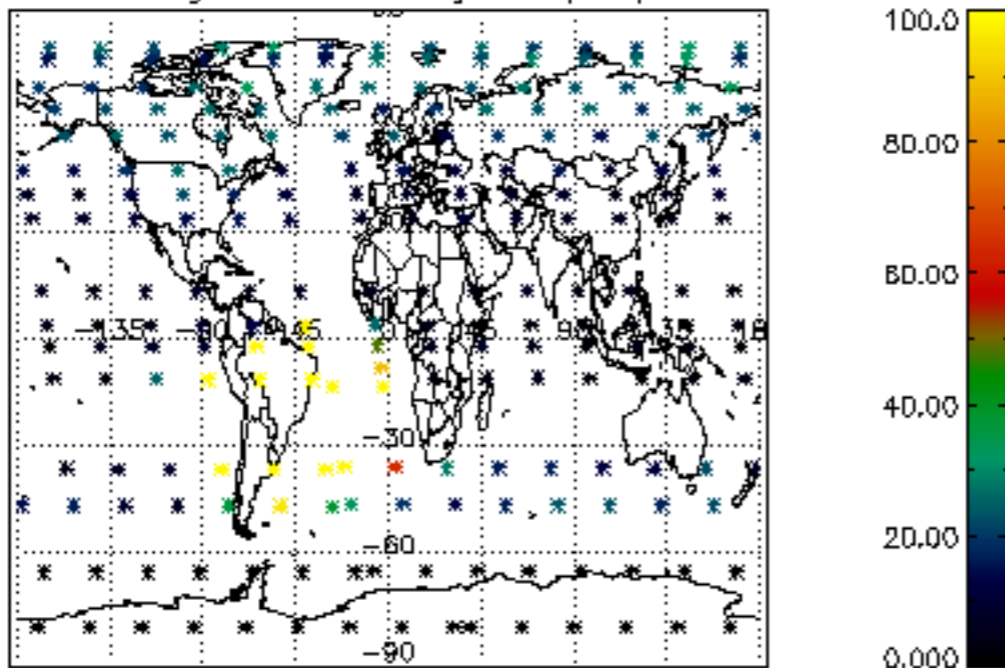
Percentage of flagged data per NO3 profile



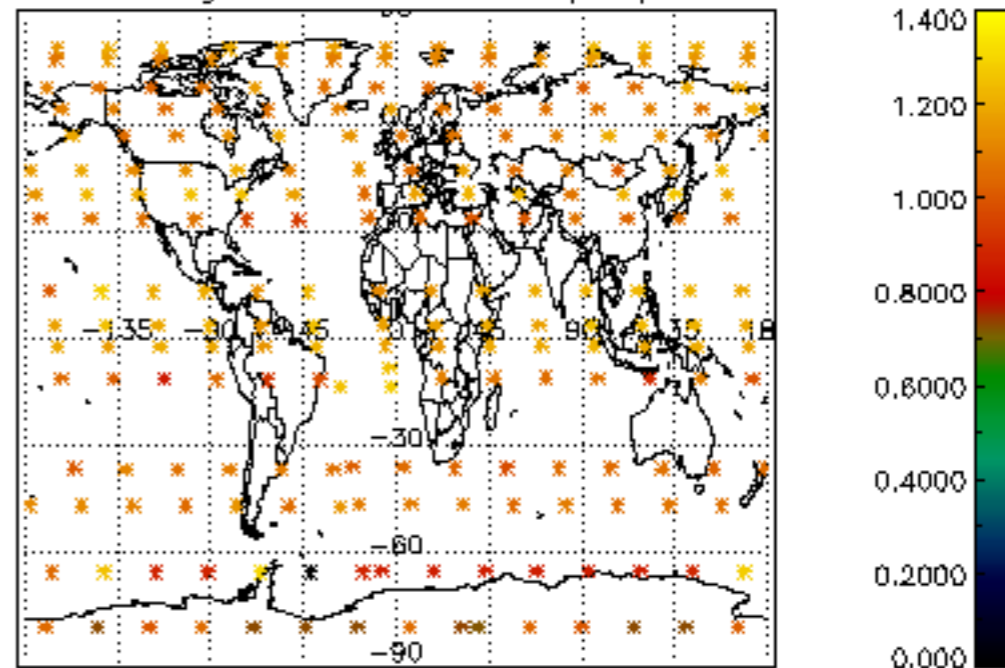




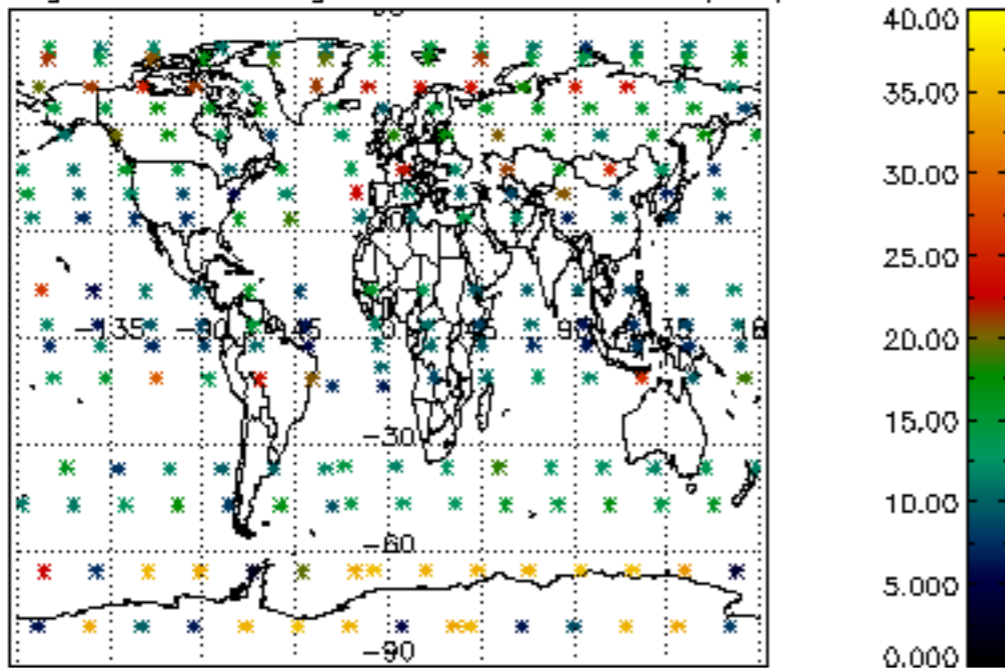
Percentage of cosmic ray hits per profile



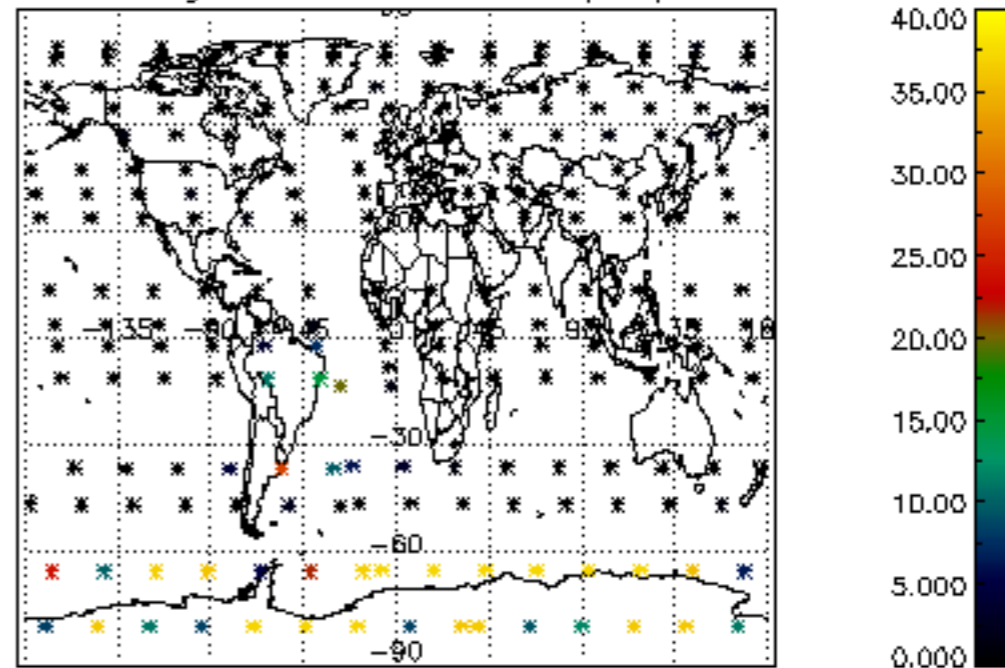
Percentage of datation errors per profile



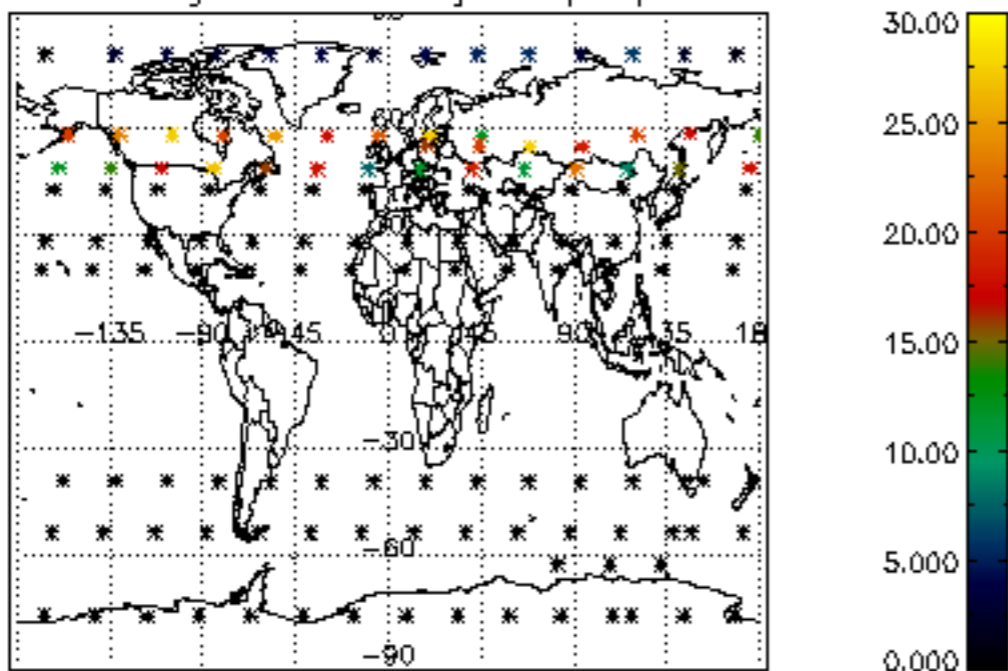
Percentage of star falling outside central band per profile



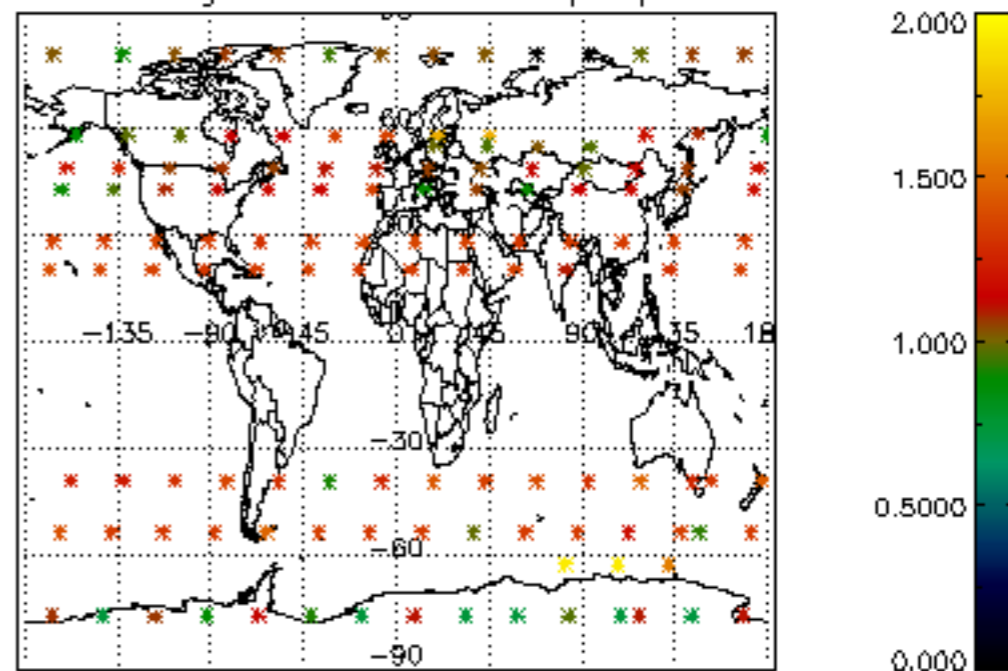
Percentage of saturation errors per profile



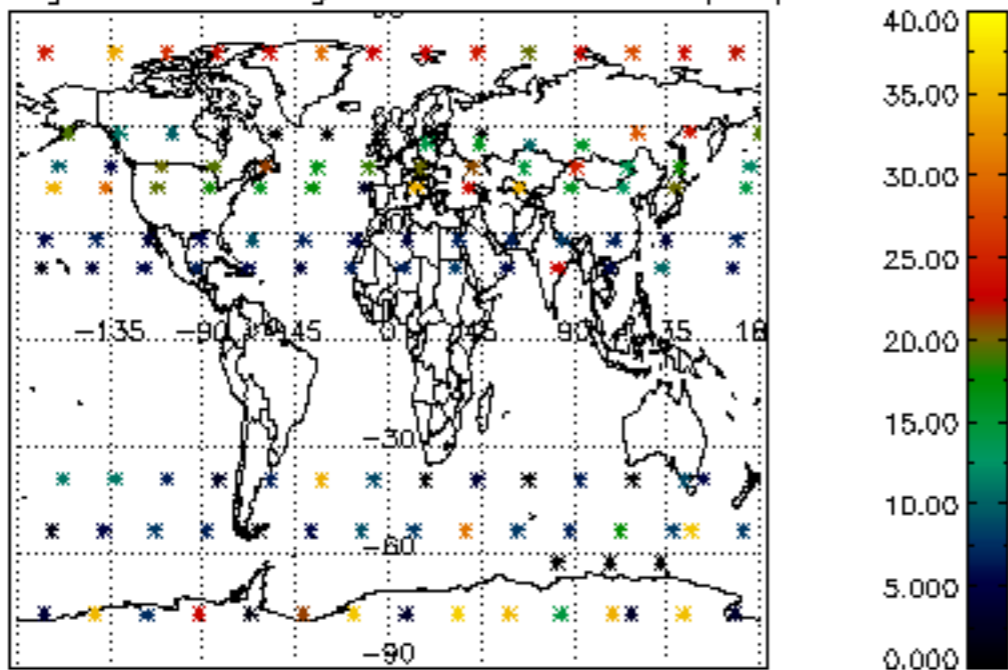
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

