

GOMOS Level 2 Daily Report

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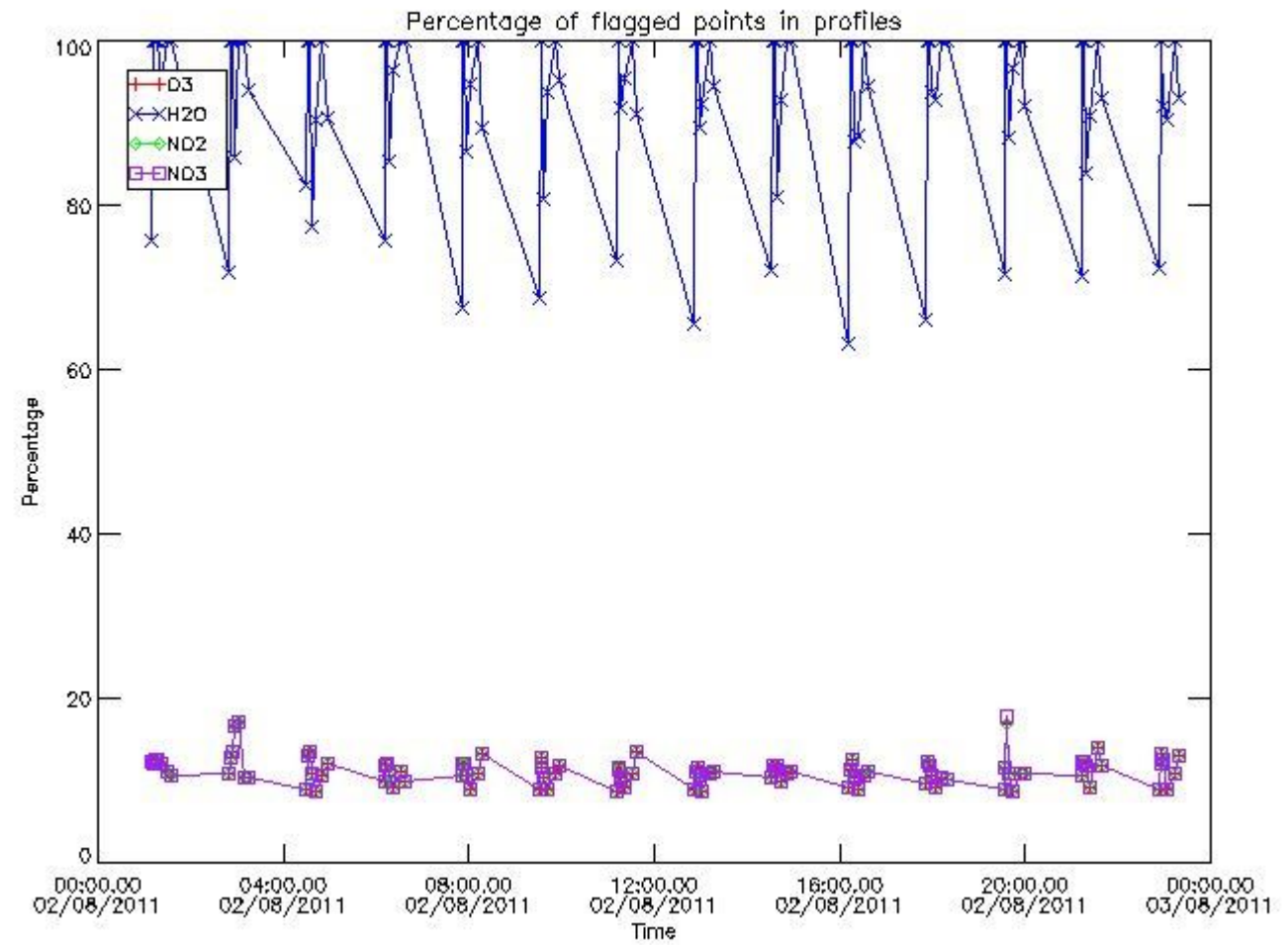
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279	GOM_NL__2PRFIN20110802_215907_000000513105_00130_49282_5396.N1	02-AUG-2011 21:59:07	Bright	50.500	142	49Del Cap	2.8500	8900.0	101	49282	No
280	GOM_NL__2PRFIN20110802_220308_000000373105_00130_49282_5397.N1	02-AUG-2011 22:03:08	Bright	37.000	154	22Bet Aqr	2.8990	5700.0	74	49282	No
281	GOM_NL__2PRFIN20110802_220709_000000383105_00130_49282_5398.N1	02-AUG-2011 22:07:09	Bright	37.500	11	53Alp Aql	0.76500	8000.0	75	49282	No
282	GOM_NL__2PRFIN20110802_221529_000000443105_00130_49282_5399.N1	02-AUG-2011 22:15:29	Bright	43.500	92	53Eps Cyg	2.5000	4500.0	87	49282	No
283	GOM_NL__2PRFIN20110802_221737_000000353105_00130_49282_5400.N1	02-AUG-2011 22:17:37	Bright	35.000	144	18Del Cyg	2.8600	11000.	70	49282	No
284	GOM_NL__2PRFIN20110802_222402_000000393105_00130_49282_5401.N1	02-AUG-2011 22:24:02	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	49282	No
285	GOM_NL__2PRFIN20110802_223846_000000483105_00130_49282_5402.N1	02-AUG-2011 22:38:46	Bright	47.500	160	23Gam Per	2.9300	4700.0	95	49282	No
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287	GOM_NL__2PRFIN20110802_224244_000000443105_00130_49282_5404.N1	02-AUG-2011 22:42:44	Bright	44.000	6	13Alp Aur	0.080000	3400.0	88	49282	No
288	GOM_NL__2PRFIN20110802_224435_000000463105_00130_49282_5405.N1	02-AUG-2011 22:44:35	Bright	45.500	149	45Eps Per	2.8880	30000.	91	49282	No
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290	GOM_NL__2PRFIN20110802_225010_000000423105_00130_49282_5407.N1	02-AUG-2011 22:50:10	Tw_i_and_stray	42.000	176	23Zet Tau	3.0200	22000.	84	49282	No
291	GOM_NL__2PRFIN20110802_225246_000000573105_00130_49282_5408.N1	02-AUG-2011 22:52:46	Dark	56.500	13	87Alp Tau	0.86700	3800.0	113	49282	No
292	GOM_NL__2PRFIN20110802_225445_000000433105_00130_49282_5409.N1	02-AUG-2011 22:54:45	Dark	42.500	27	24Gam Ori	1.6360	26000.	85	49282	No
293	GOM_NL__2PRFIN20110802_225639_000000433105_00130_49282_5410.N1	02-AUG-2011 22:56:39	Dark	42.500	30	46Eps Ori	1.6940	30000.	85	49282	No
294	GOM_NL__2PRFIN20110802_225911_000000453105_00130_49282_5411.N1	02-AUG-2011 22:59:11	Dark	44.500	7	19Bet Ori	0.10000	14000.	89	49282	No
295	GOM_NL__2PRFIN20110802_230405_000000583105_00130_49282_5412.N1	02-AUG-2011 23:04:05	Dark	57.500	165	34Gam Eri	2.9500	3200.0	115	49282	No
296	GOM_NL__2PRFIN20110802_231328_000000473105_00131_49283_5405.N1	02-AUG-2011 23:13:28	Dark	47.000	157	The1Eri	2.9060	9300.0	94	49283	No
297	GOM_NL__2PRFIN20110802_231847_000000433105_00131_49283_5406.N1	02-AUG-2011 23:18:47	Dark	43.000	9	Alp Eri	0.45300	24000.	86	49283	No
298	GOM_NL__2PRFIN20110802_232345_000000533105_00131_49283_5407.N1	02-AUG-2011 23:23:45	Straylight	52.500	84	Alp Phe	2.3970	4500.0	105	49283	No
299	GOM_NL__2PRFIN20110802_232849_000000443105_00131_49283_5408.N1	02-AUG-2011 23:28:49	Straylight	43.500	31	Alp Gru	1.7340	15200.	87	49283	No
300	GOM_NL__2PRFIN20110802_233155_000000463105_00131_49283_5409.N1	02-AUG-2011 23:31:55	Straylight	45.500	172	Gam Gru	3.0030	13100.	91	49283	No
301	GOM_NL__2PRFIN20110802_233920_000000493105_00131_49283_5410.N1	02-AUG-2011 23:39:20	Bright	49.000	142	49Del Cap	2.8500	8900.0	98	49283	No
302	GOM_NL__2PRFIN20110802_234322_000000373105_00131_49283_5411.N1	02-AUG-2011 23:43:22	Bright	37.000	154	22Bet Aqr	2.8990	5700.0	74	49283	No
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305	GOM_NL__2PRFIN20110802_235750_000000553105_00131_49283_5414.N1	02-AUG-2011 23:57:50	Bright	55.000	144	18Del Cyg	2.8600	11000.	110	49283	No

3. Quality information per product

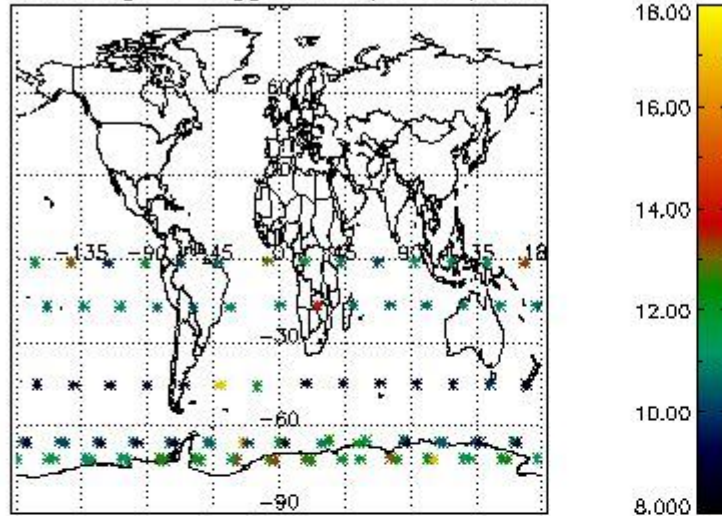
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

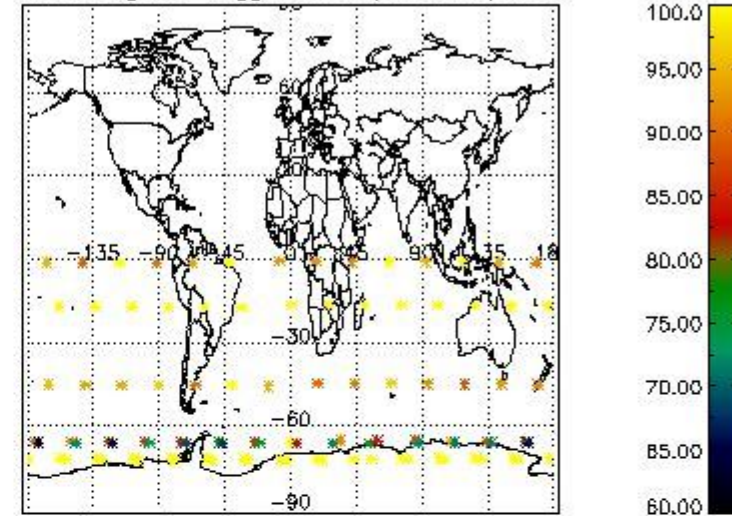


3.2 Plot quality information per product (world map)

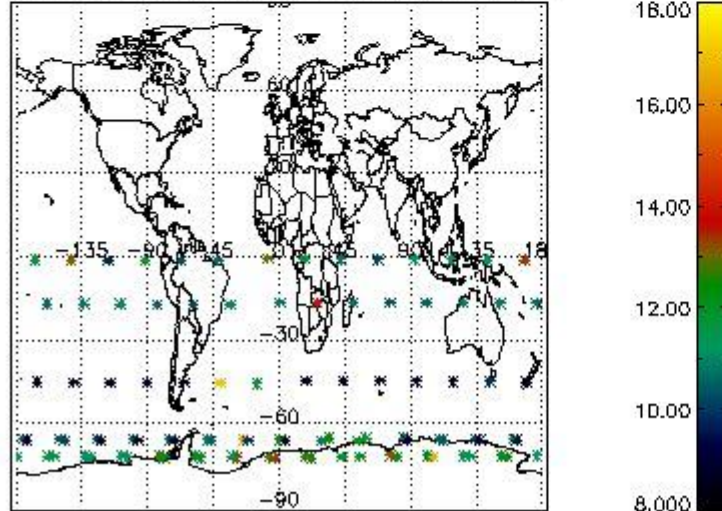
Percentage of flagged data per O3 profile



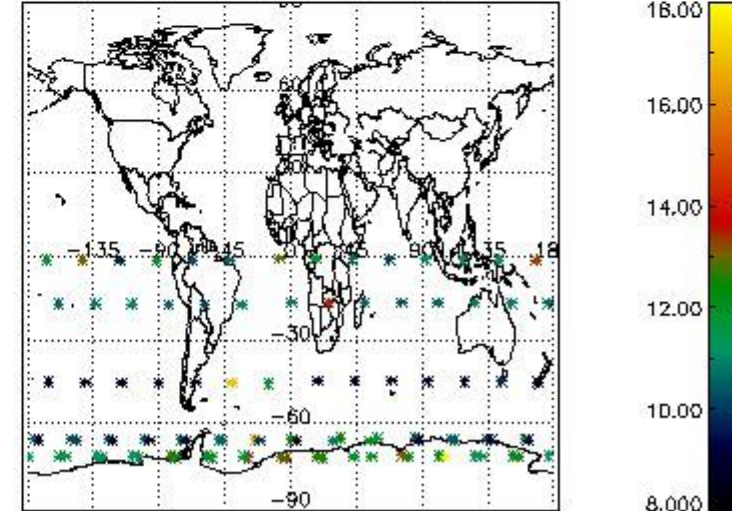
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

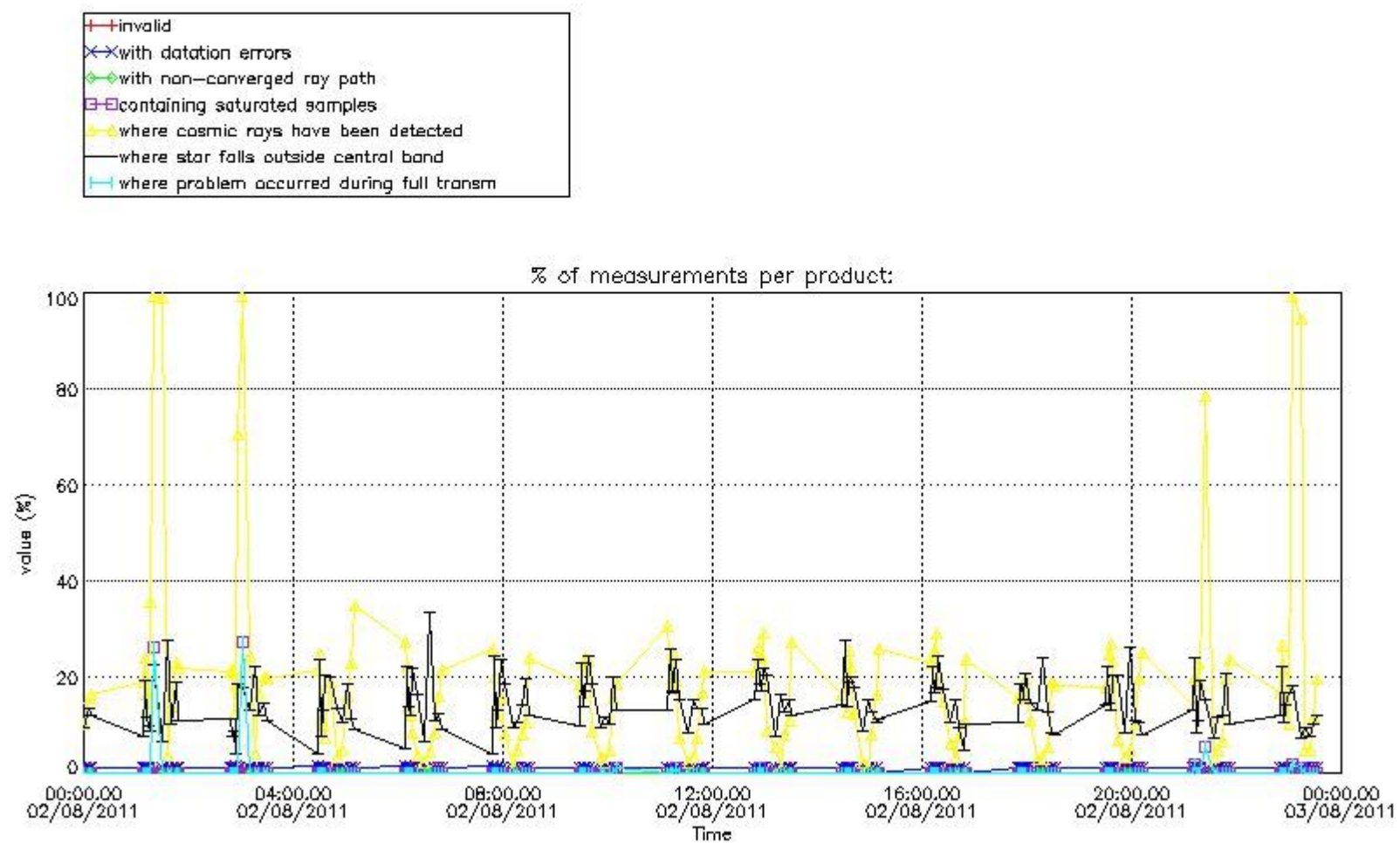


4. Level 1 quality information per product

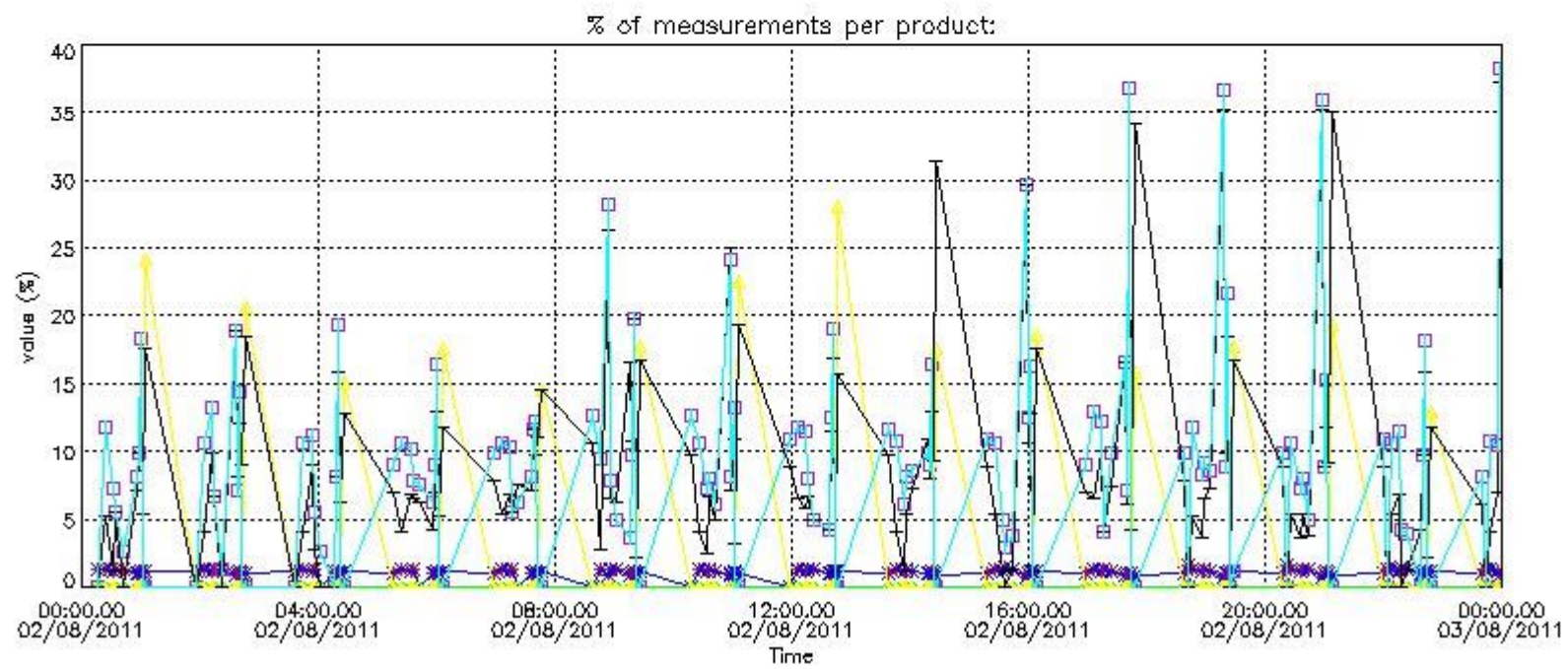
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



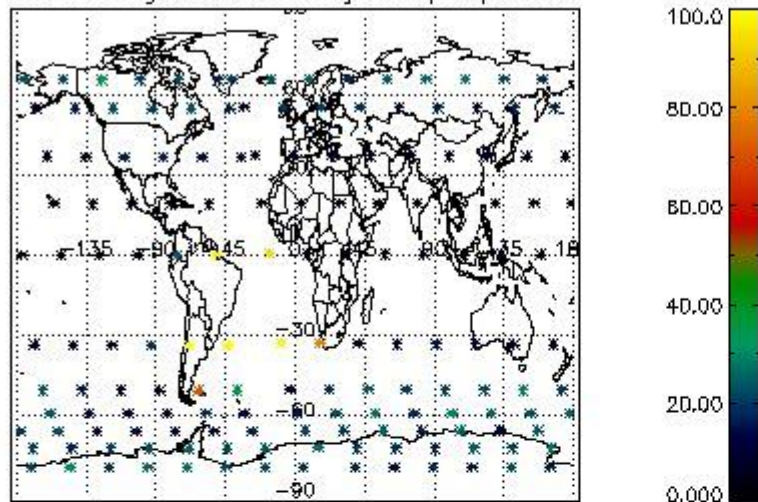
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



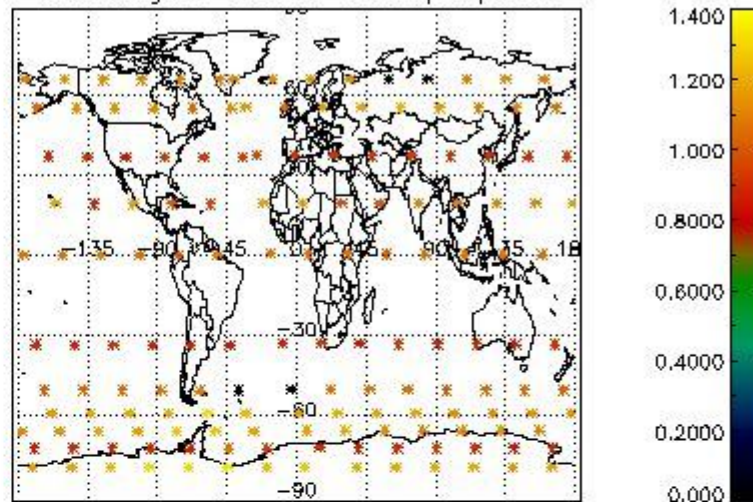
4.2 Plot quality information per product coming from level 1b processing (world map)

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

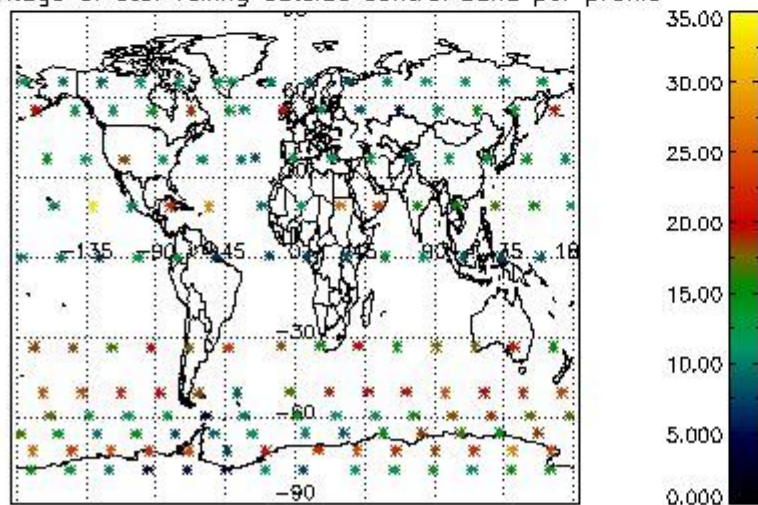
Percentage of cosmic ray hits per profile



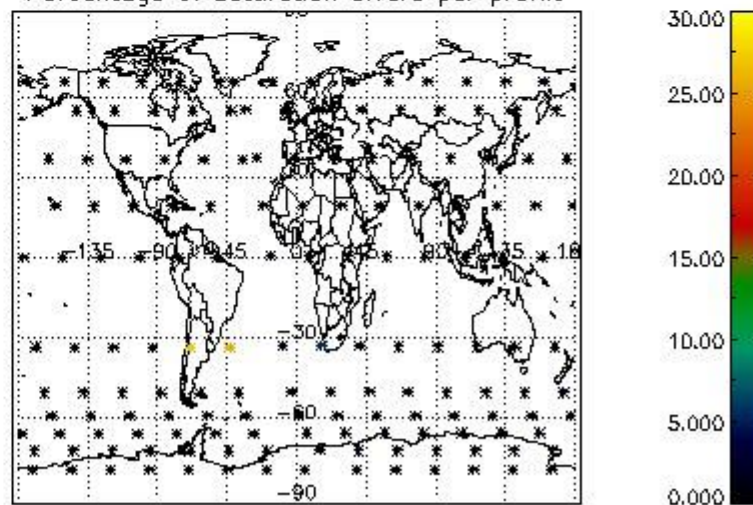
Percentage of datation errors per profile



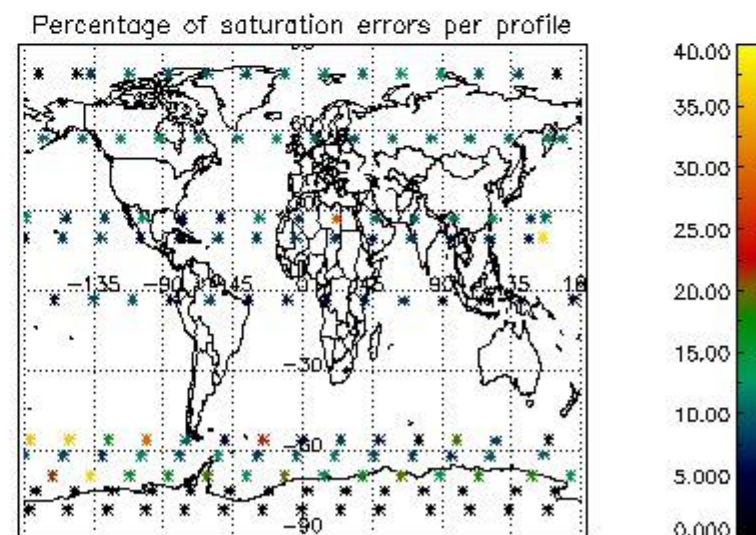
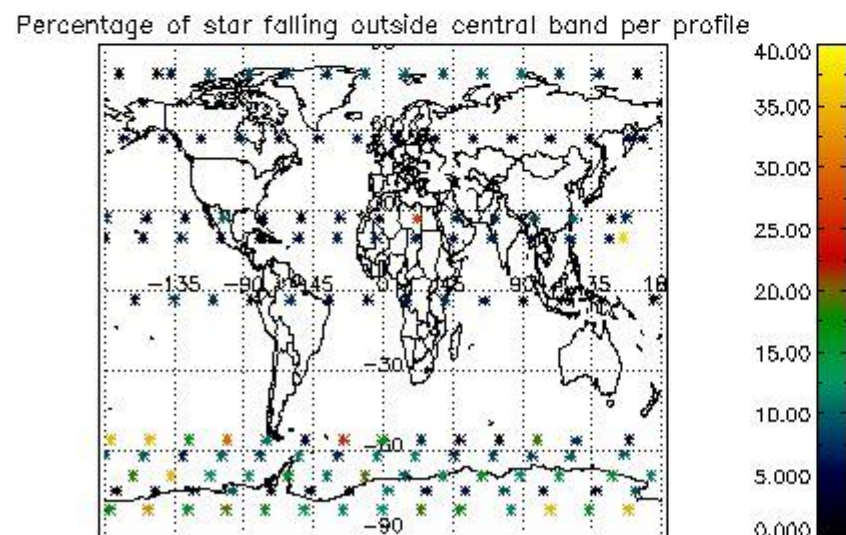
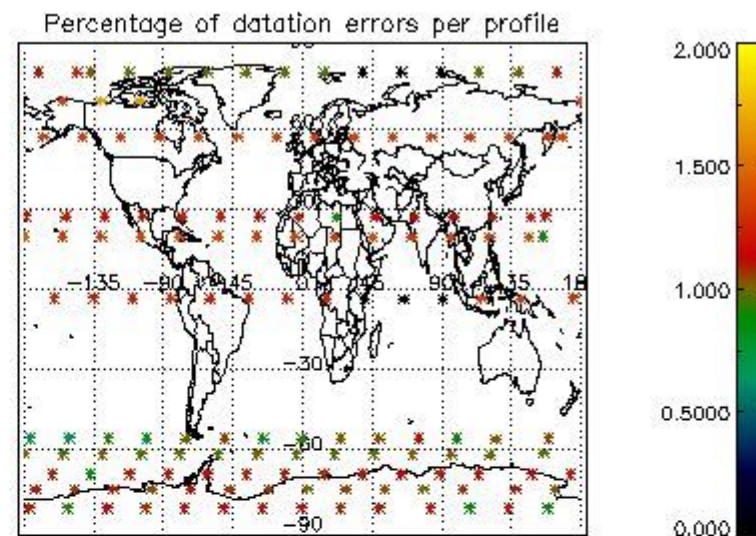
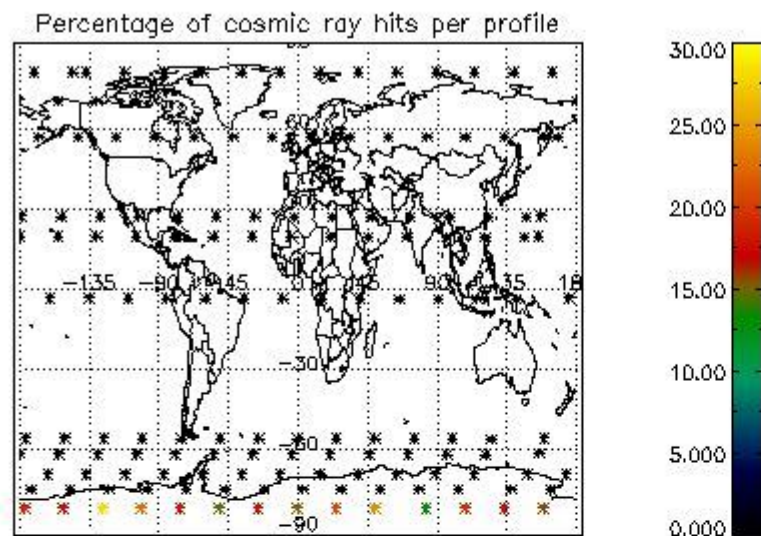
Percentage of star falling outside central band per profile



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

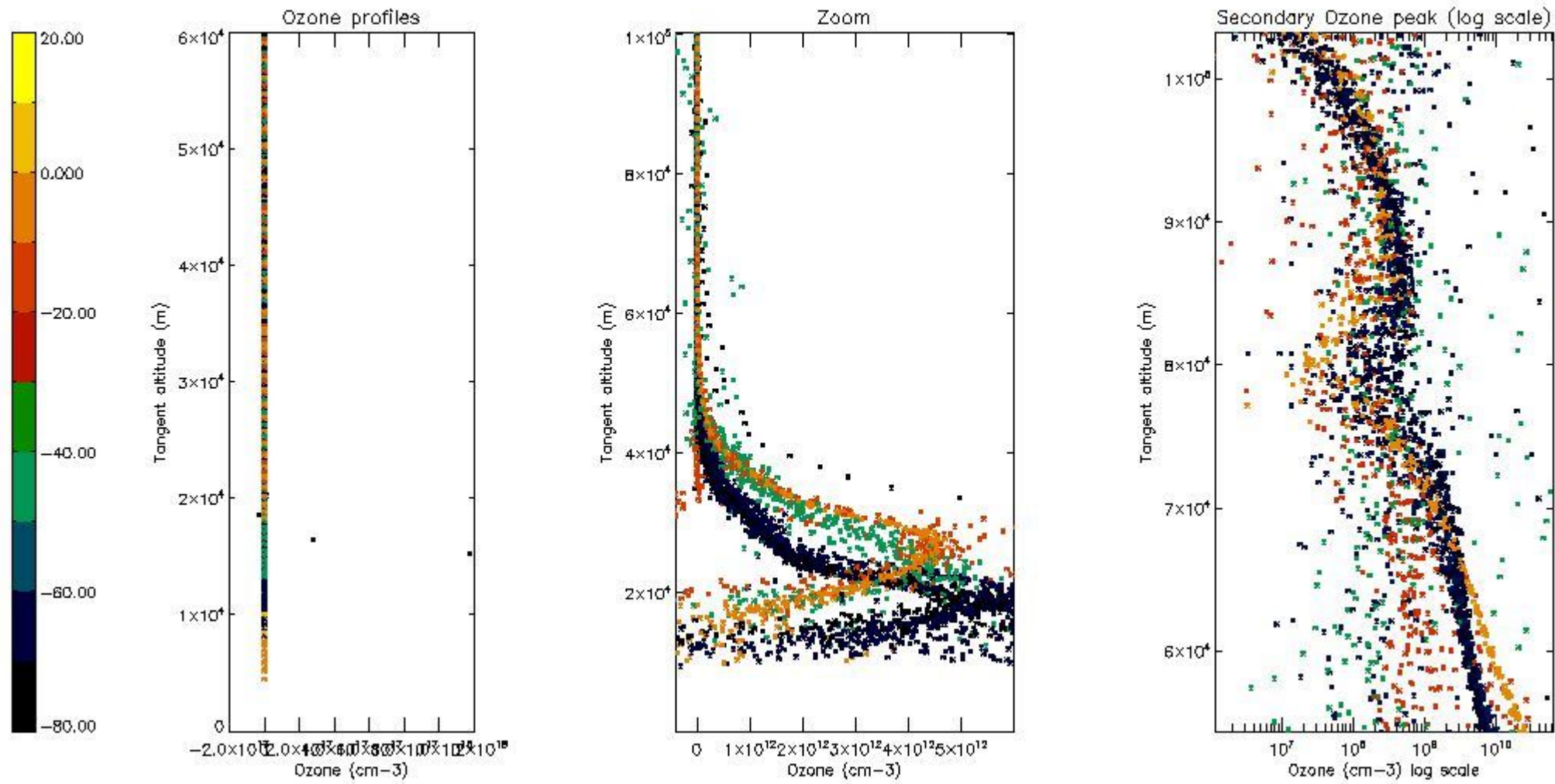
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	17

STD < 10	14
STD < 5	10

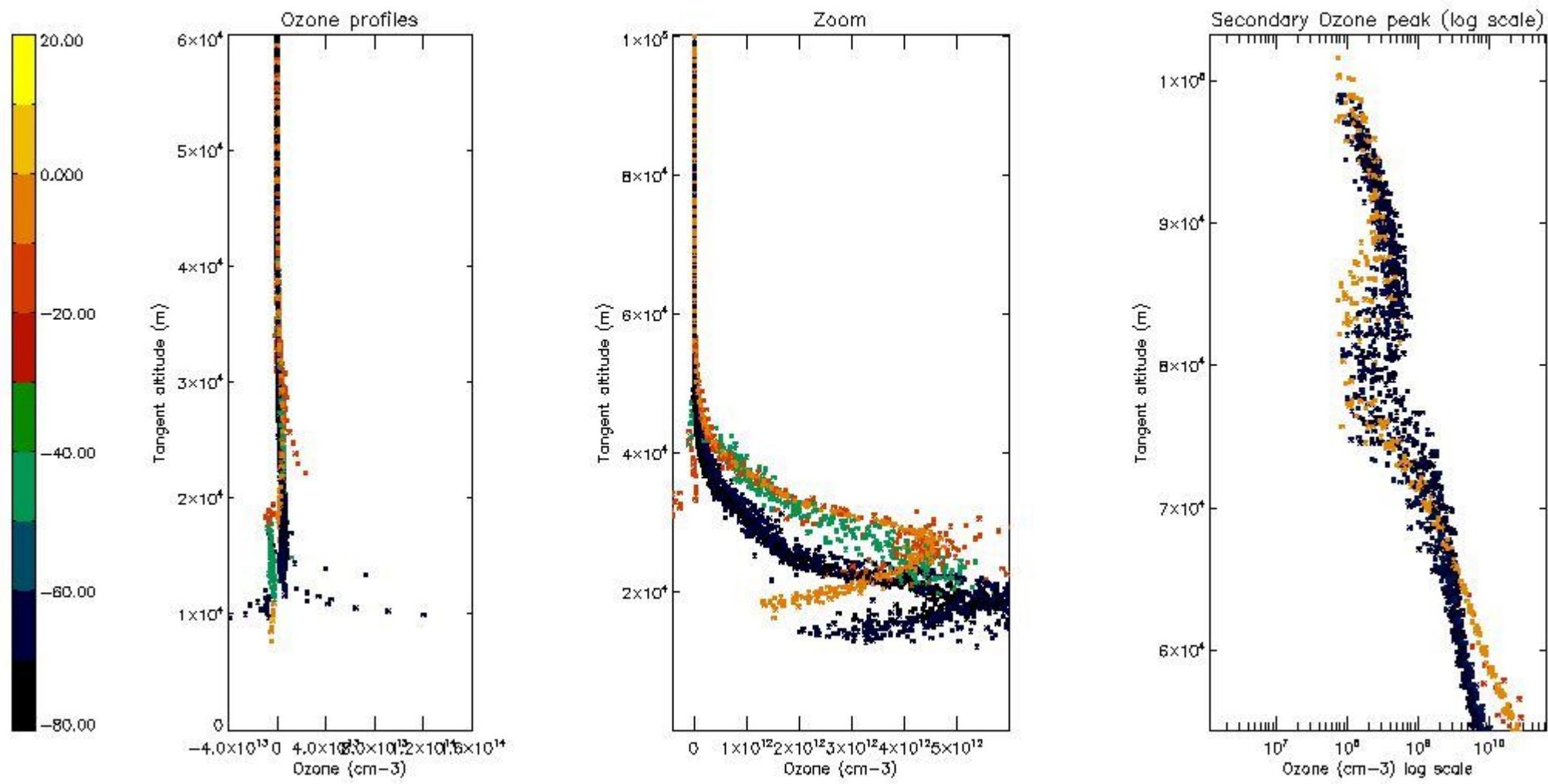
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



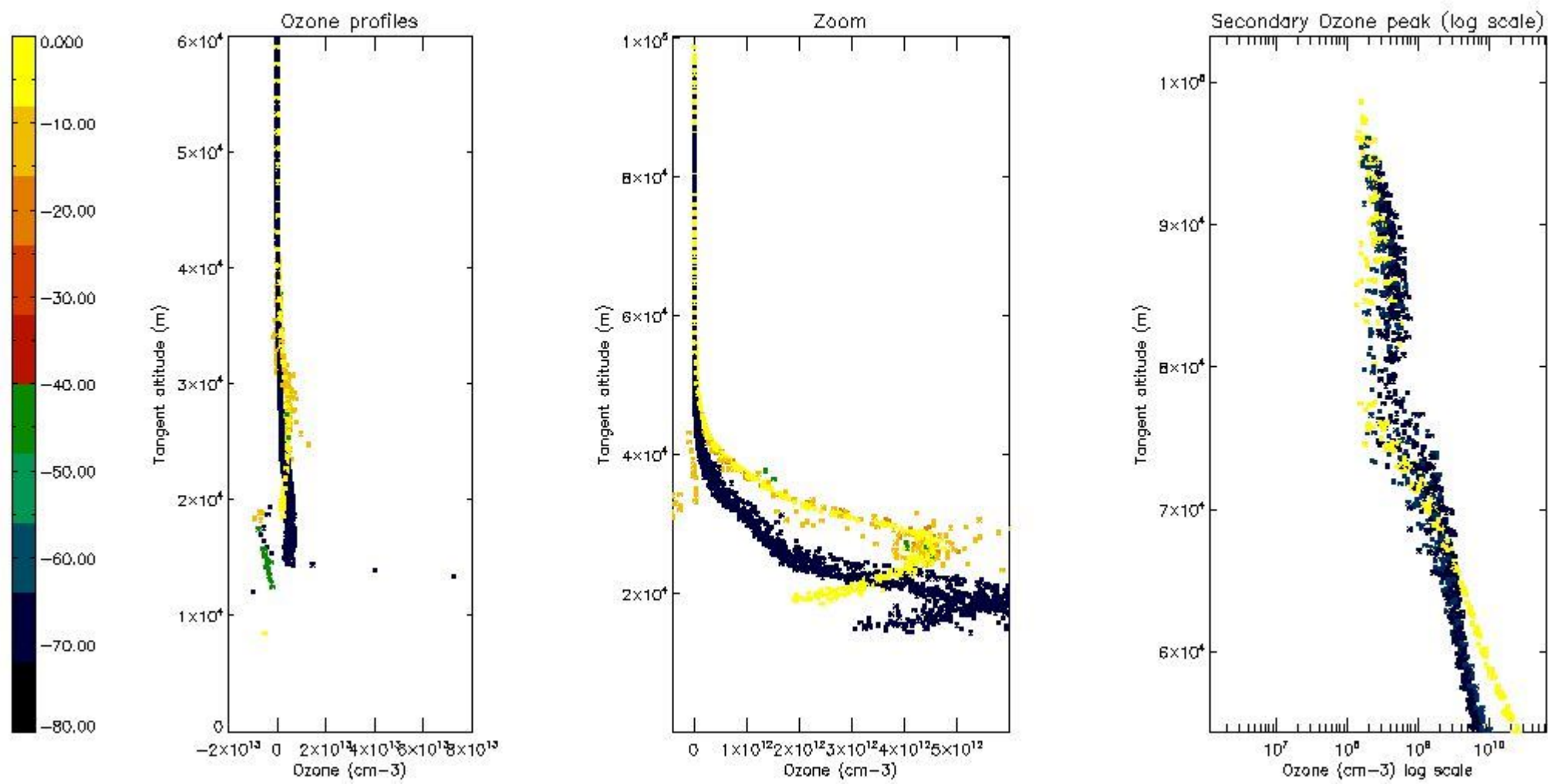
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



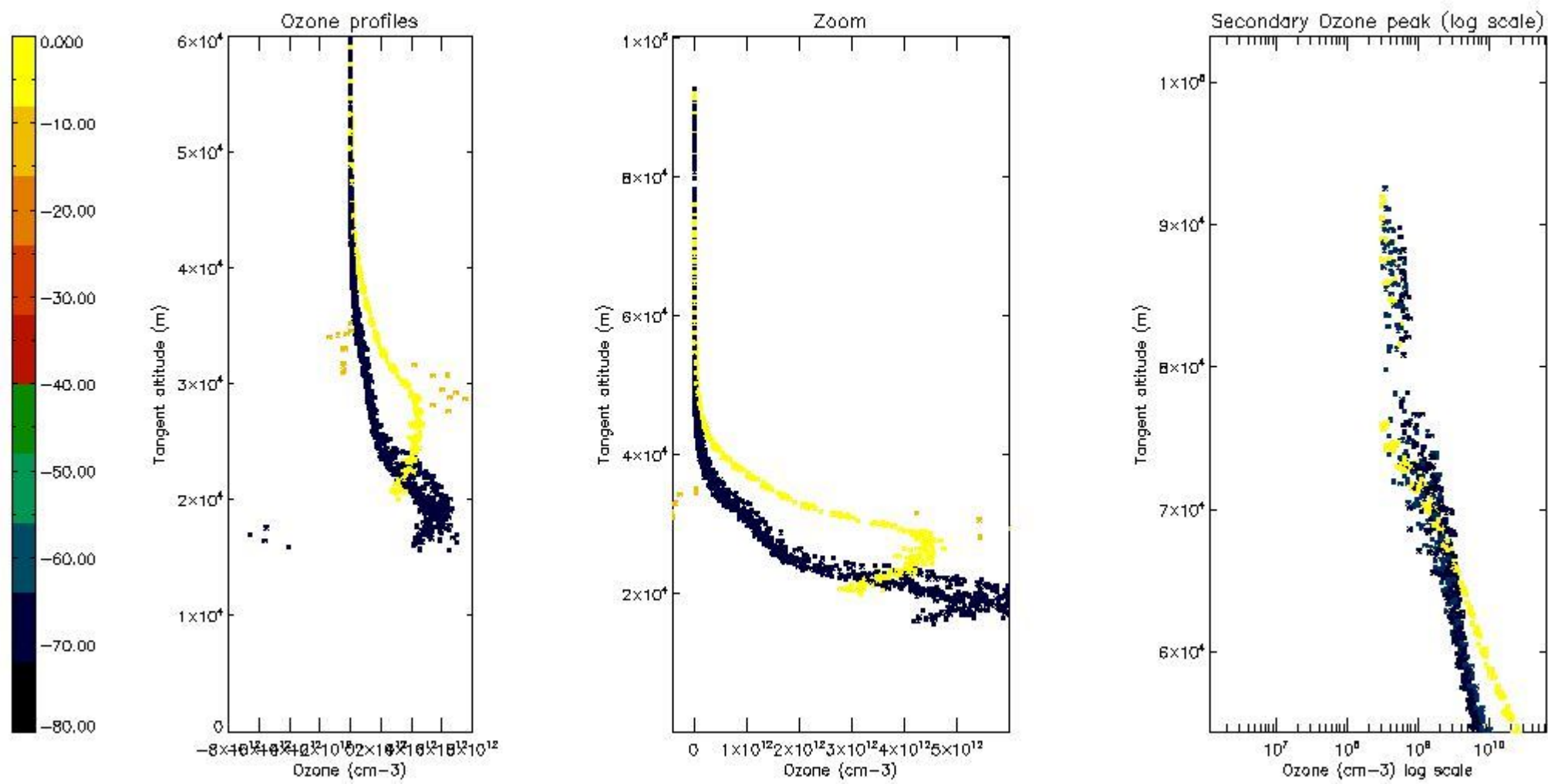
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



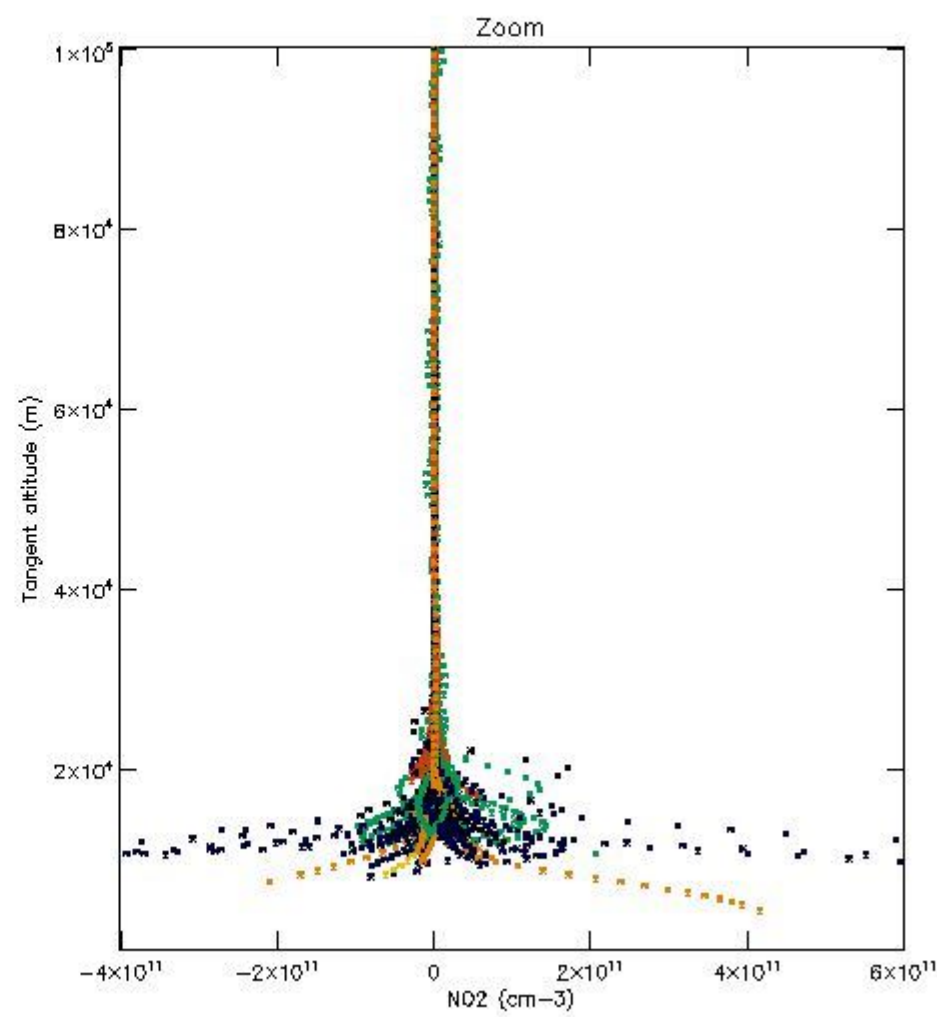
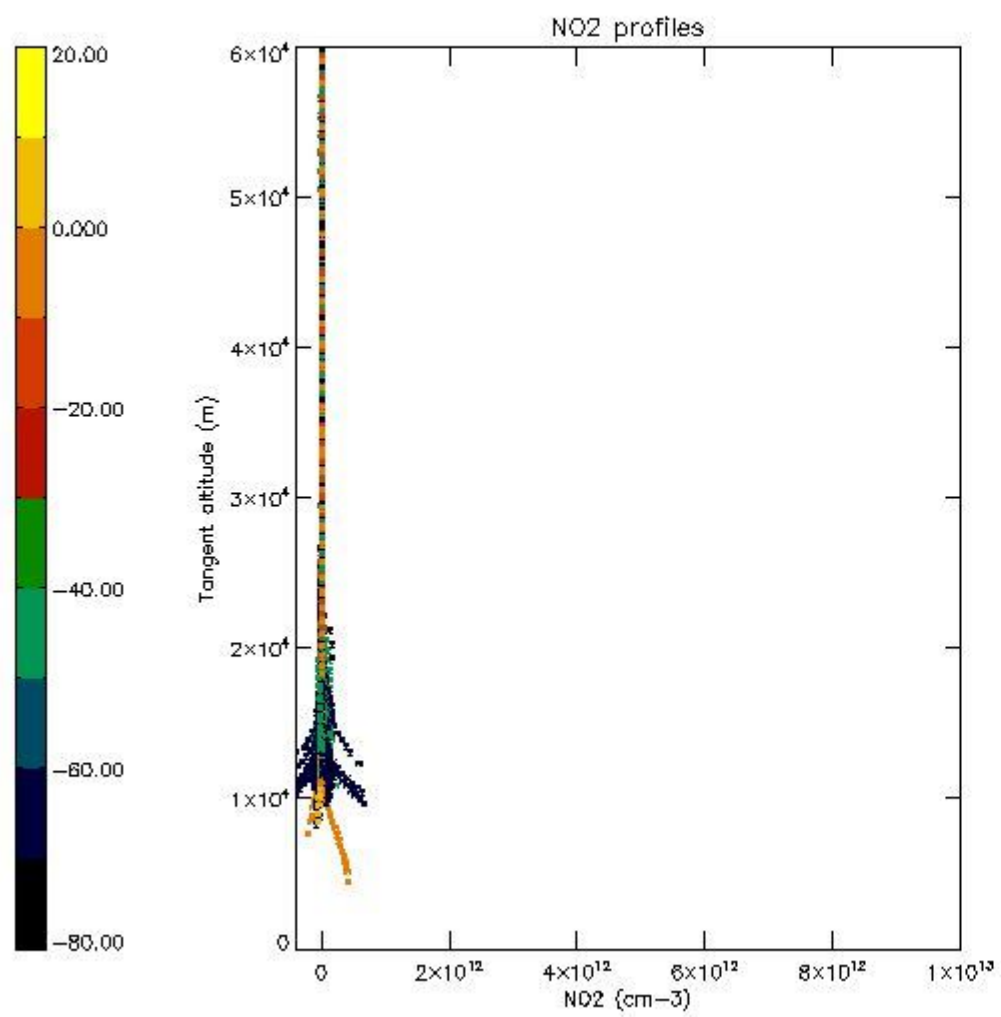
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



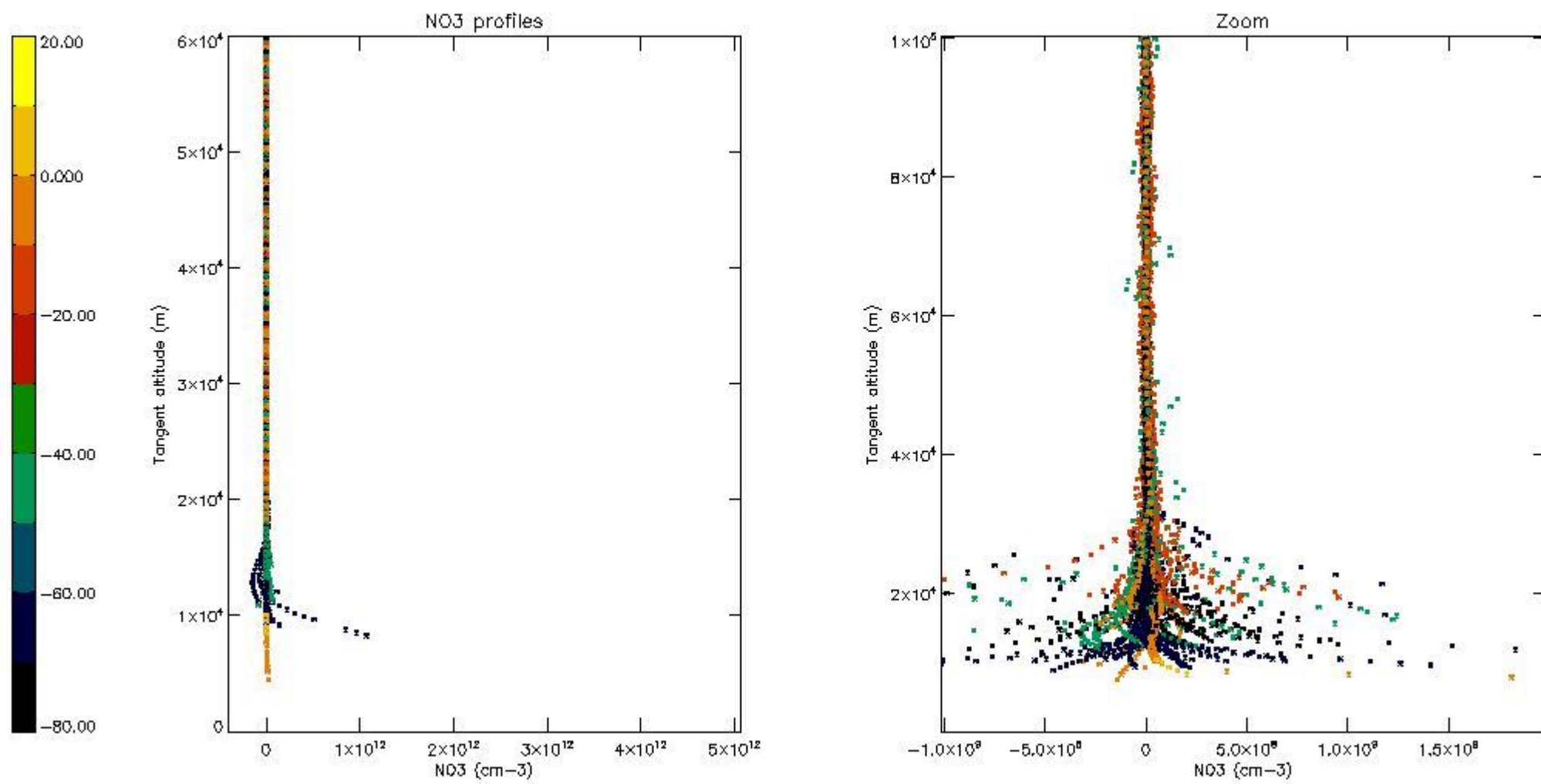
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



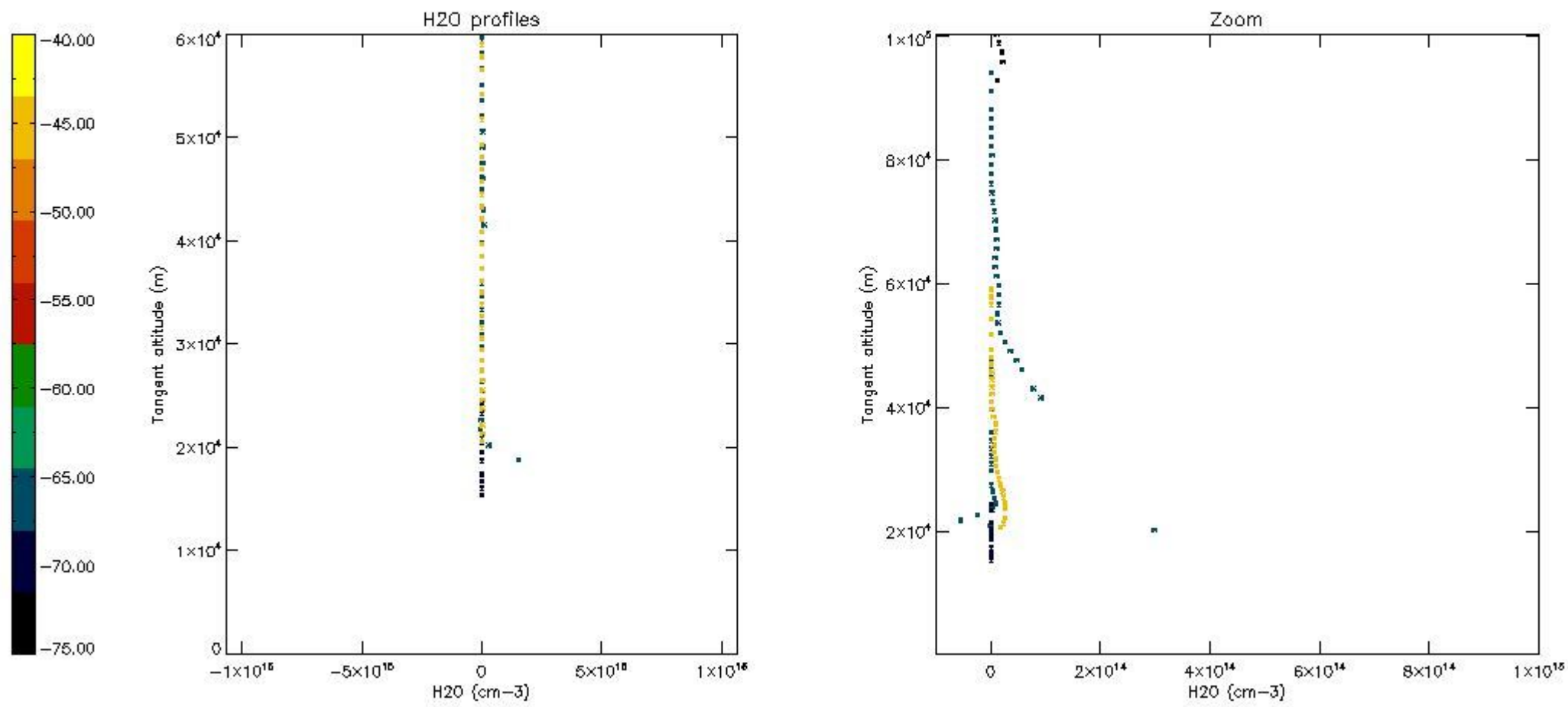
5.7 Plot NO3 profiles for all STD (dark without errors)

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	02-AUG-2011 00:00:15
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-AUG-2011 00:00:15
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-AUG-2011 00:00:15

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[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](#)

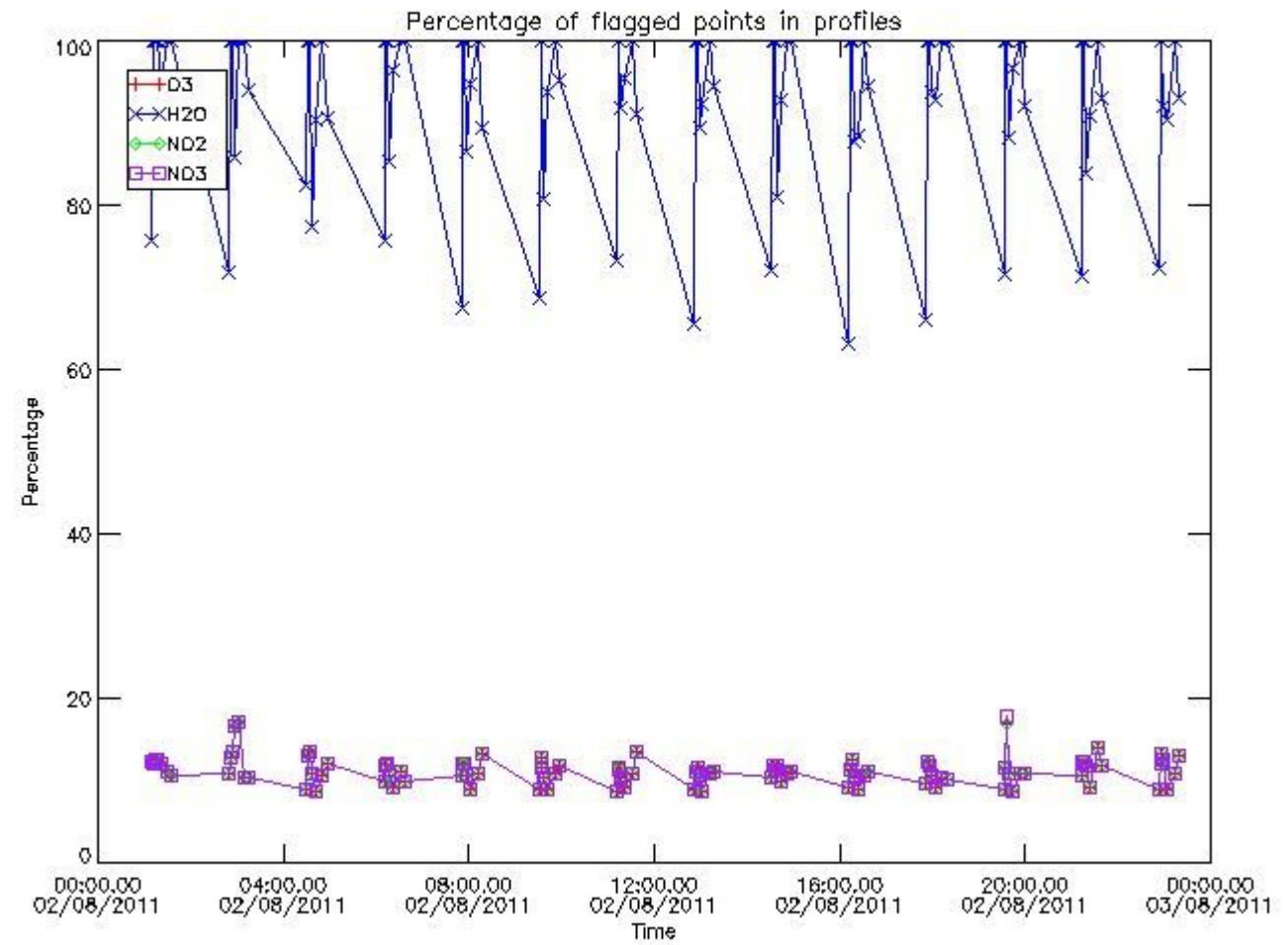
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299	GOM_NL__2PRFIN20110802_232849_000000443105_00131_49283_5408.N1	02-AUG-2011 23:28:49	Straylight	43.500	31	Alp Gru	1.7340	15200.	87	49283	No
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301	GOM_NL__2PRFIN20110802_233920_000000493105_00131_49283_5410.N1	02-AUG-2011 23:39:20	Bright	49.000	142	49Del Cap	2.8500	8900.0	98	49283	No
302	GOM_NL__2PRFIN20110802_234322_000000373105_00131_49283_5411.N1	02-AUG-2011 23:43:22	Bright	37.000	154	22Bet Aqr	2.8990	5700.0	74	49283	No
303	GOM_NL__2PRFIN20110802_234723_000000373105_00131_49283_5412.N1	02-AUG-2011 23:47:23	Bright	37.000	11	53Alp Aql	0.76500	8000.0	74	49283	No
304	GOM_NL__2PRFIN20110802_235543_000000433105_00131_49283_5413.N1	02-AUG-2011 23:55:43	Bright	43.000	92	53Eps Cyg	2.5000	4500.0	86	49283	No
305	GOM_NL__2PRFIN20110802_235750_000000553105_00131_49283_5414.N1	02-AUG-2011 23:57:50	Bright	55.000	144	18Del Cyg	2.8600	11000.	110	49283	No

3. Quality information per product

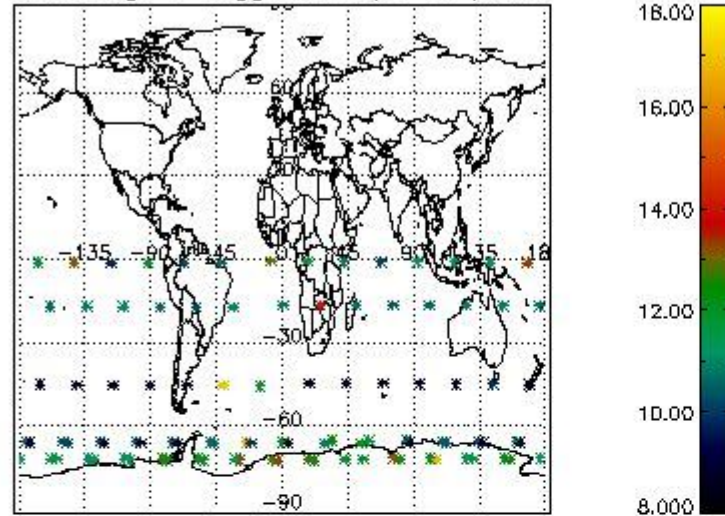
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

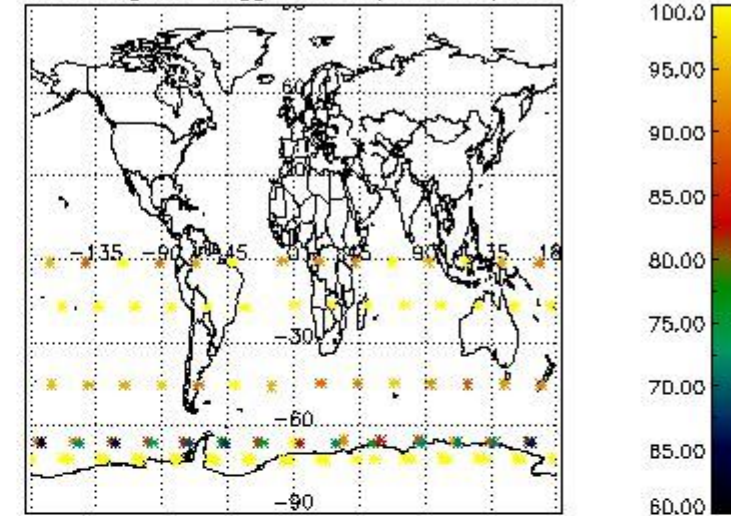


3.2 Plot quality information per product (world map)

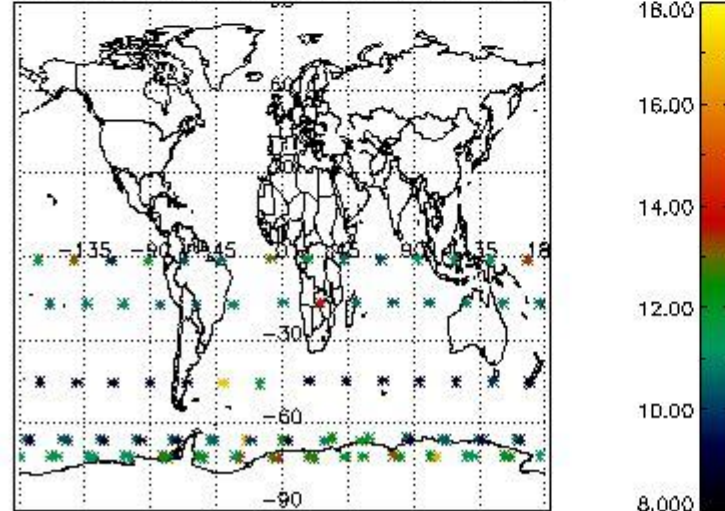
Percentage of flagged data per O3 profile



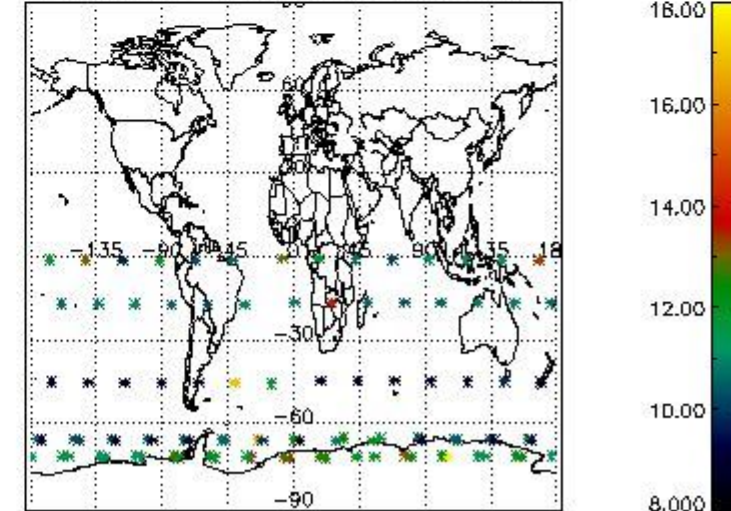
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

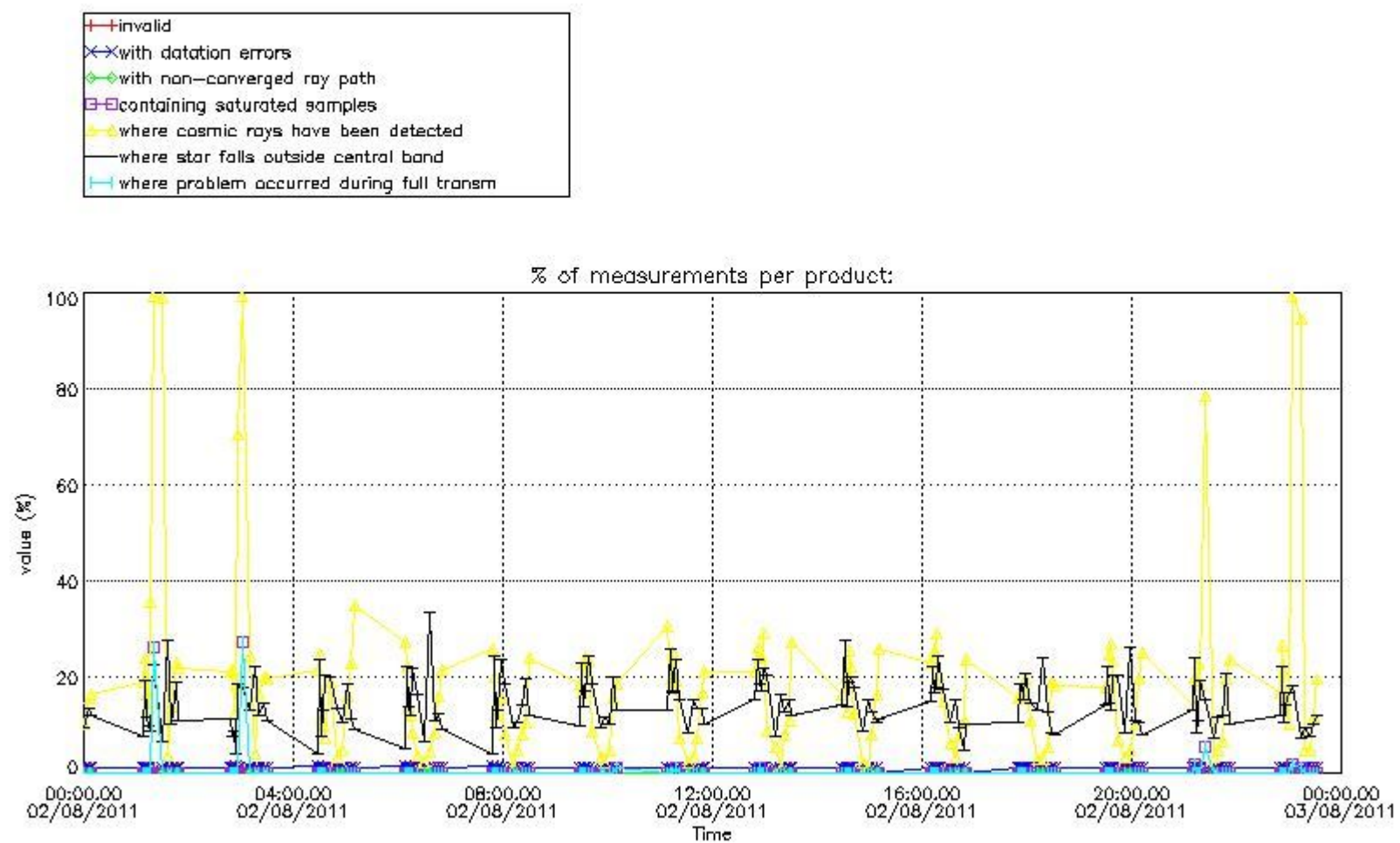


4. Level 1 quality information per product

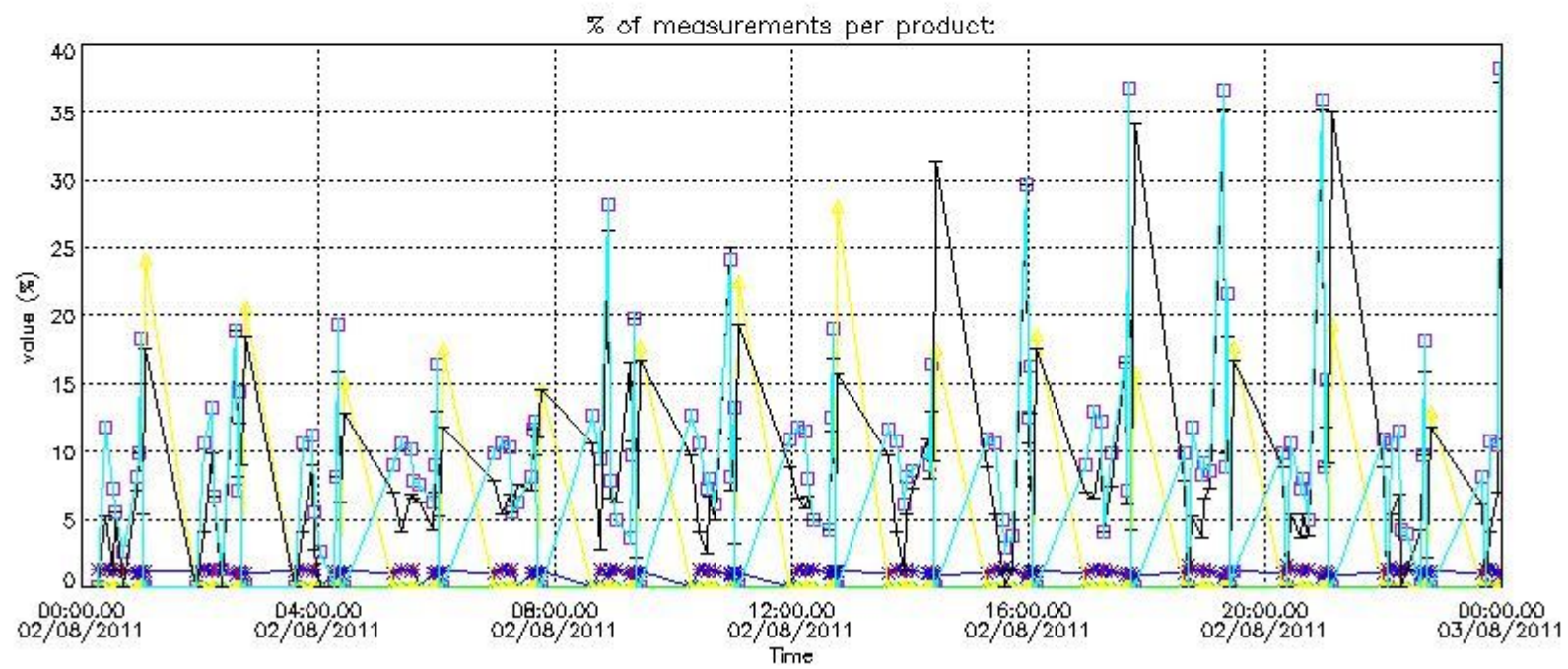
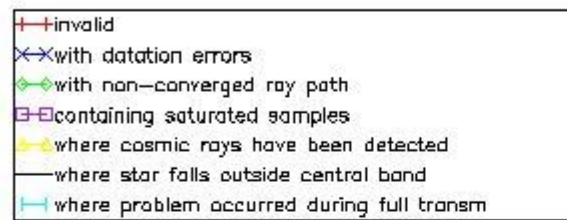
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

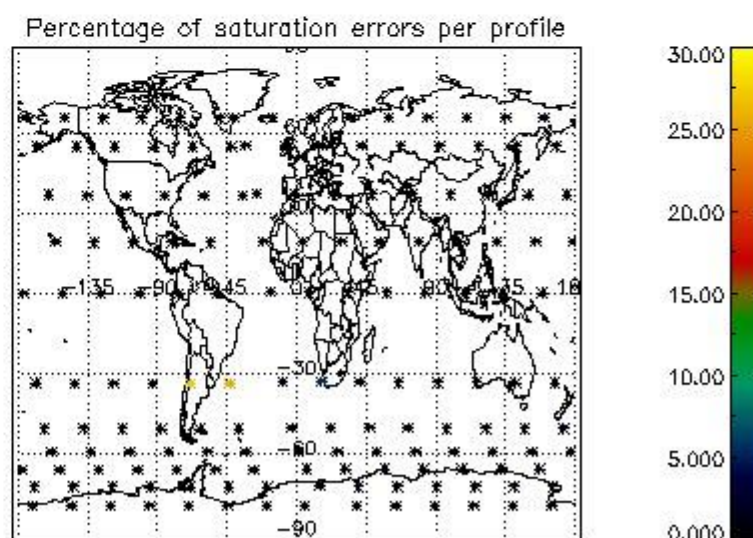
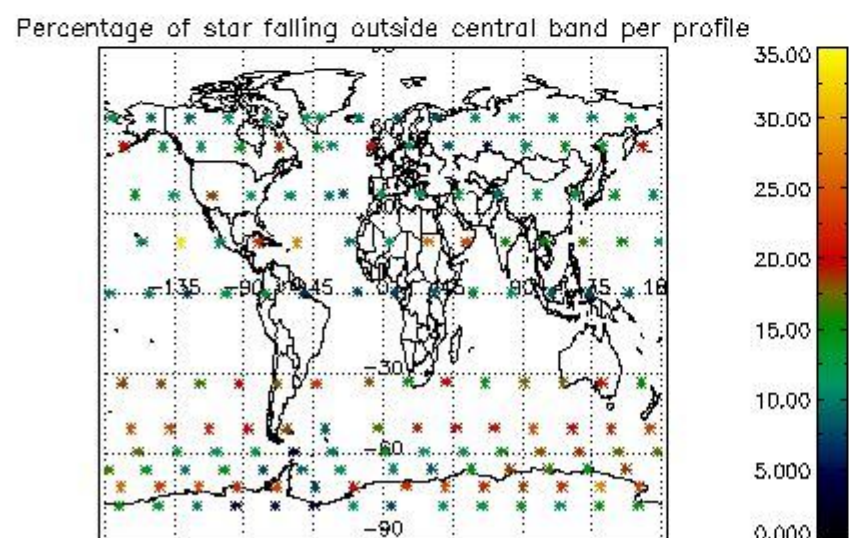
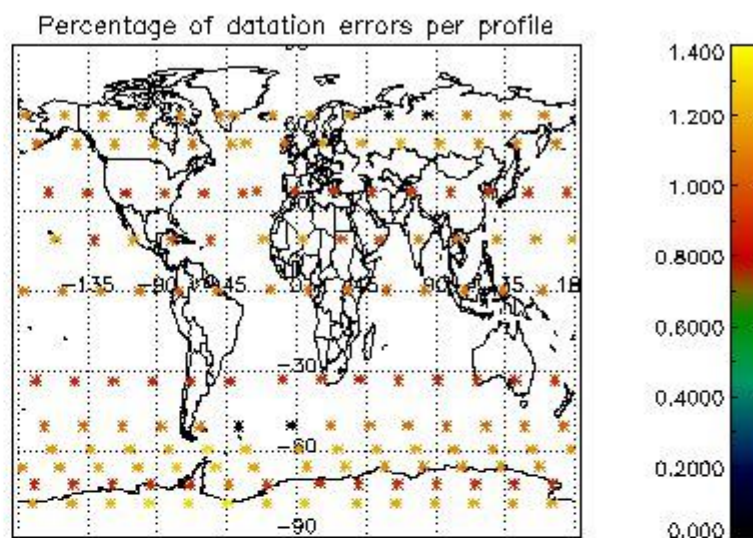
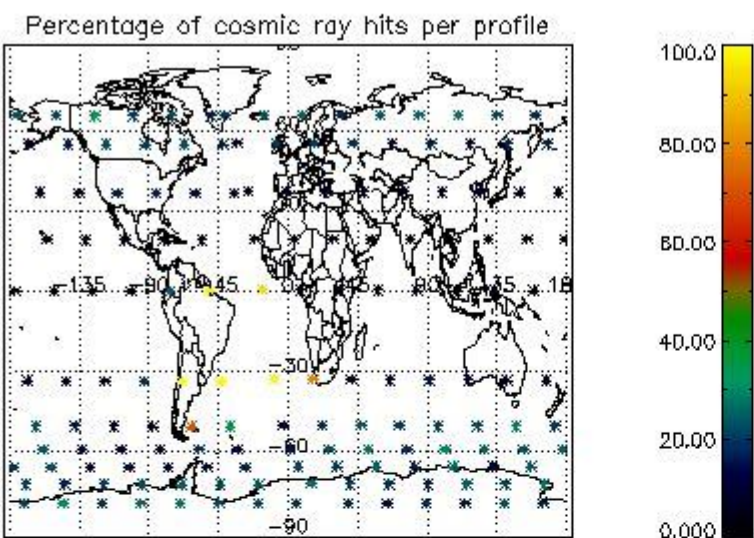


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

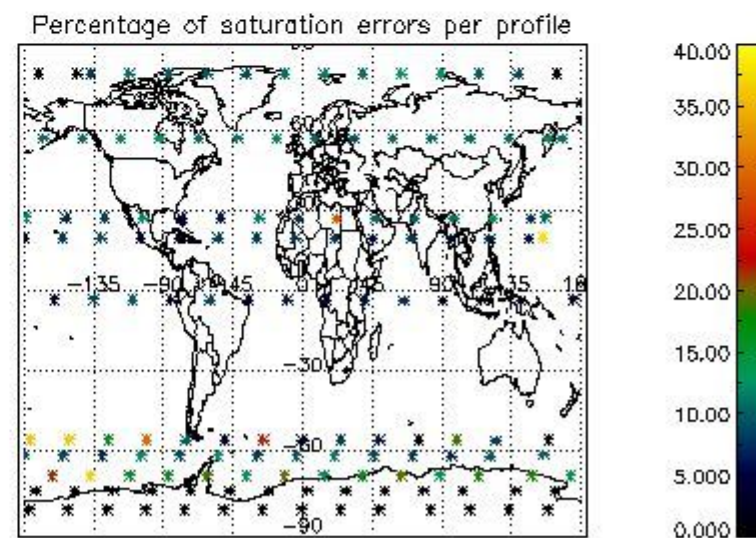
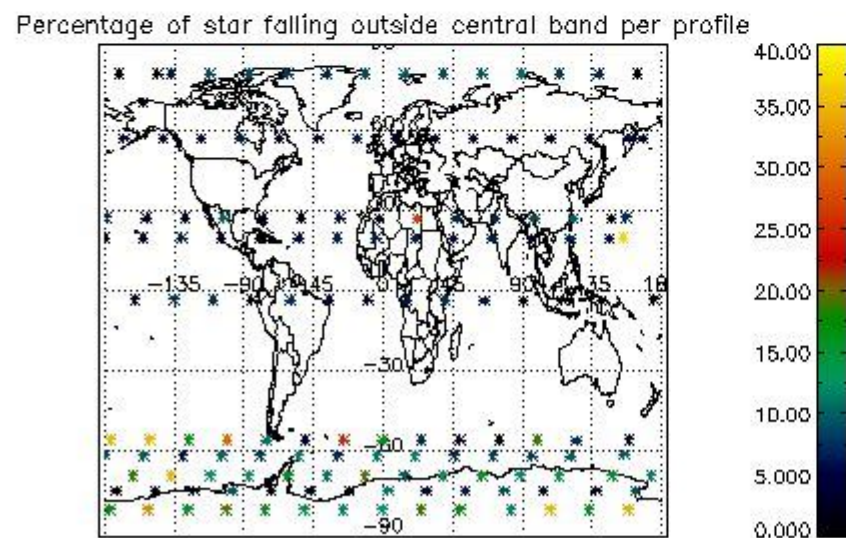
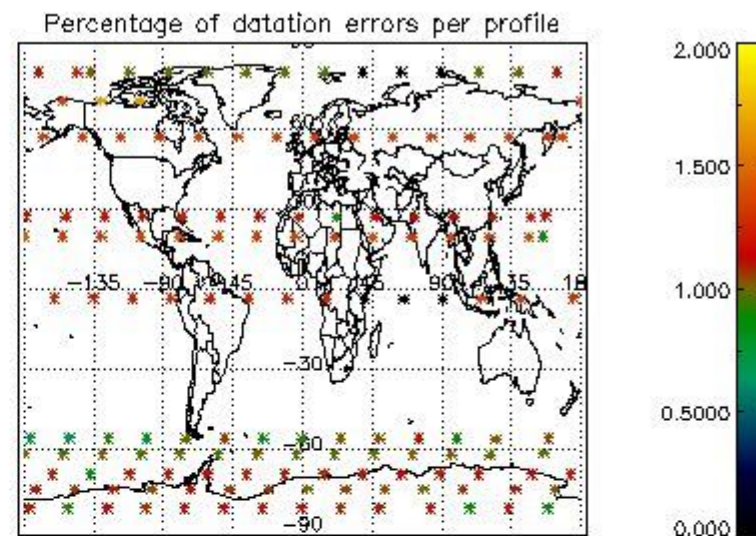
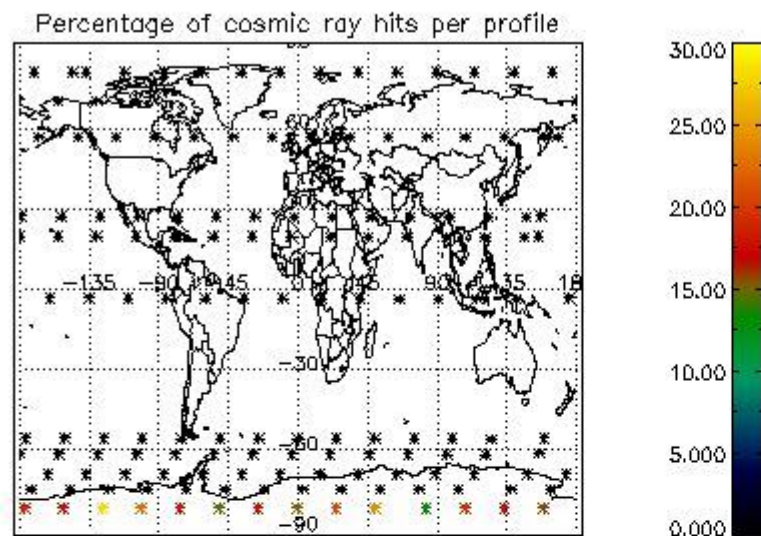


4.2 Plot quality information per product coming from level 1b processing (world map)

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

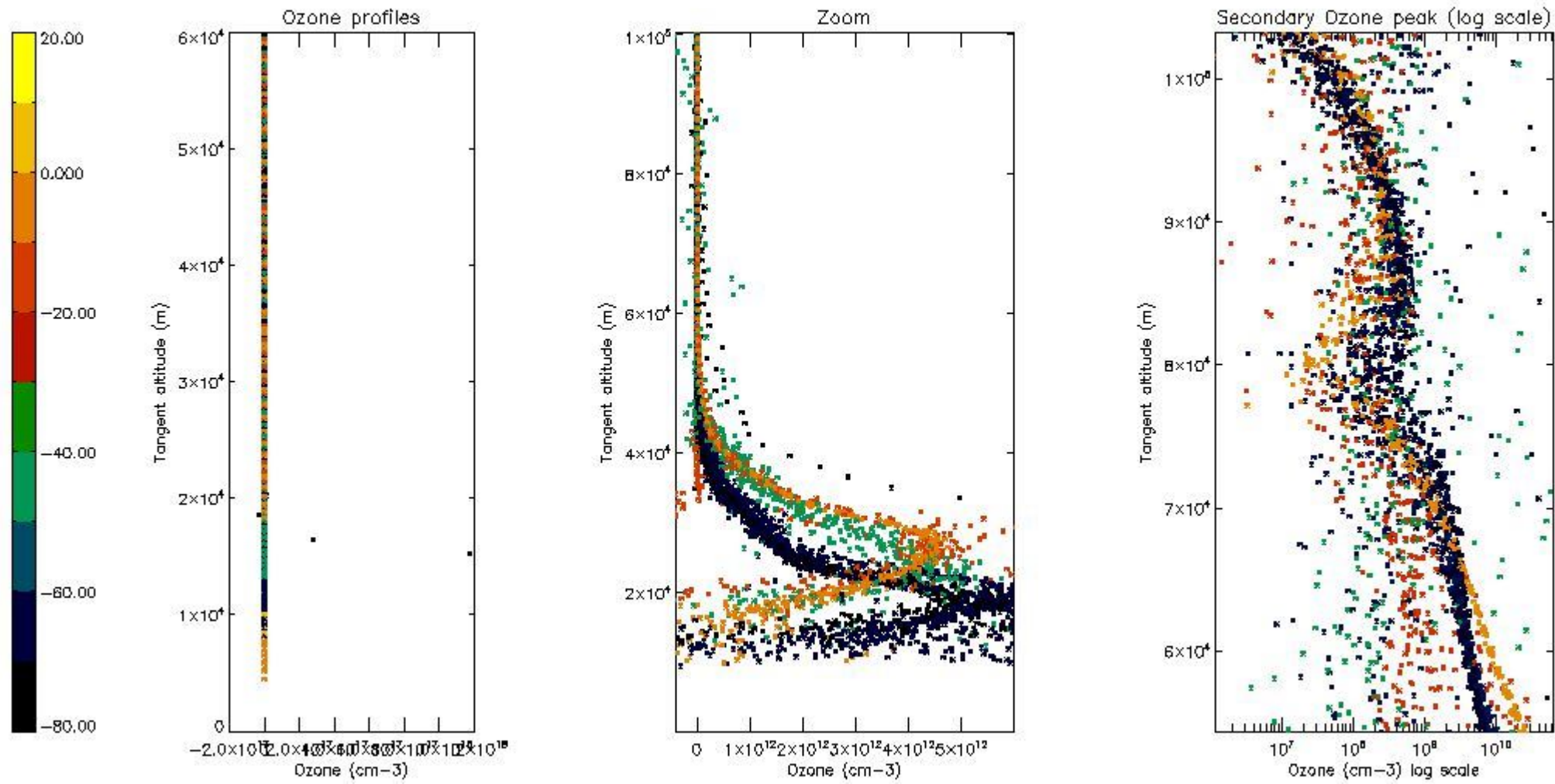
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	17

STD < 10	14
STD < 5	10

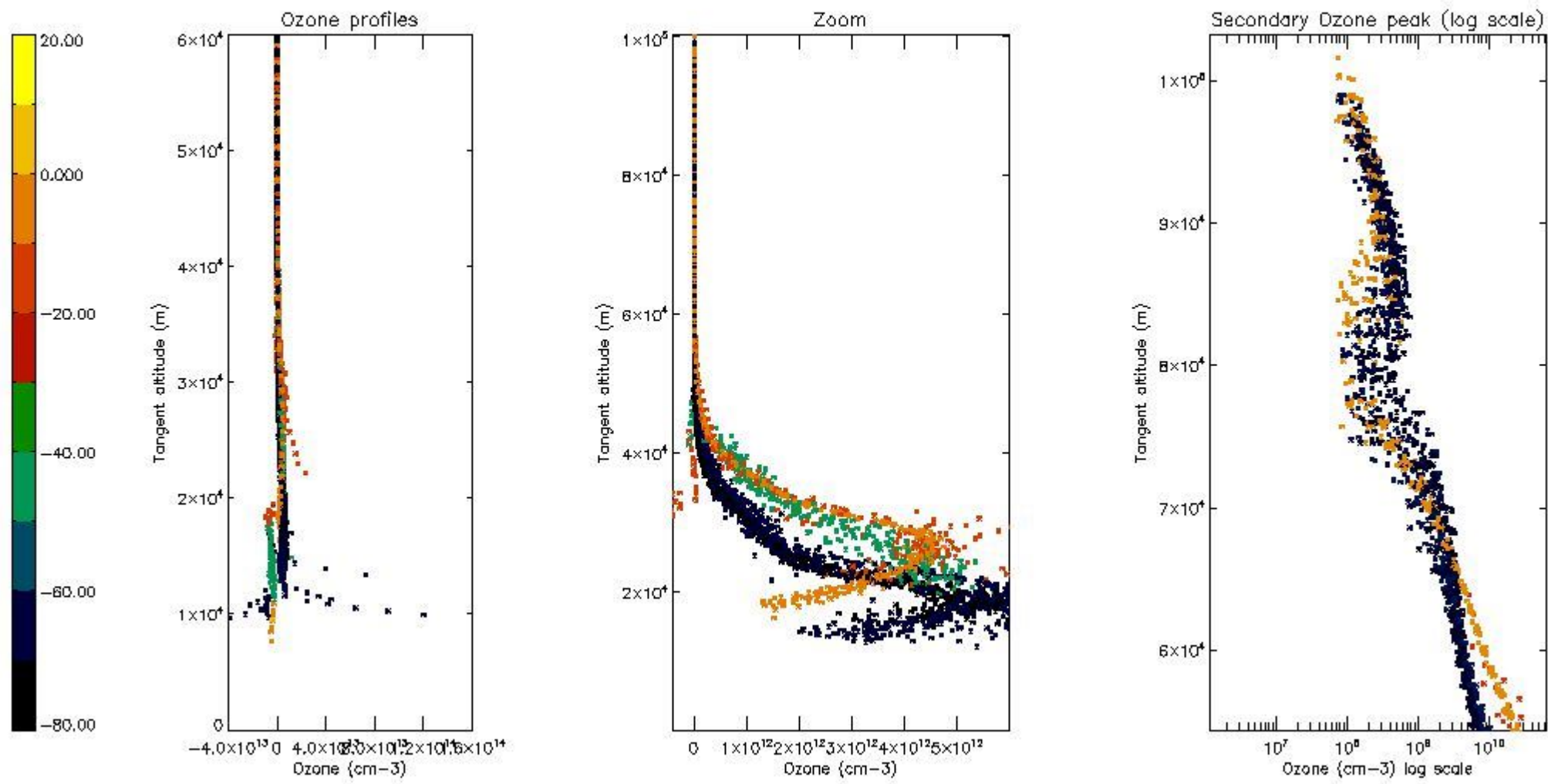
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



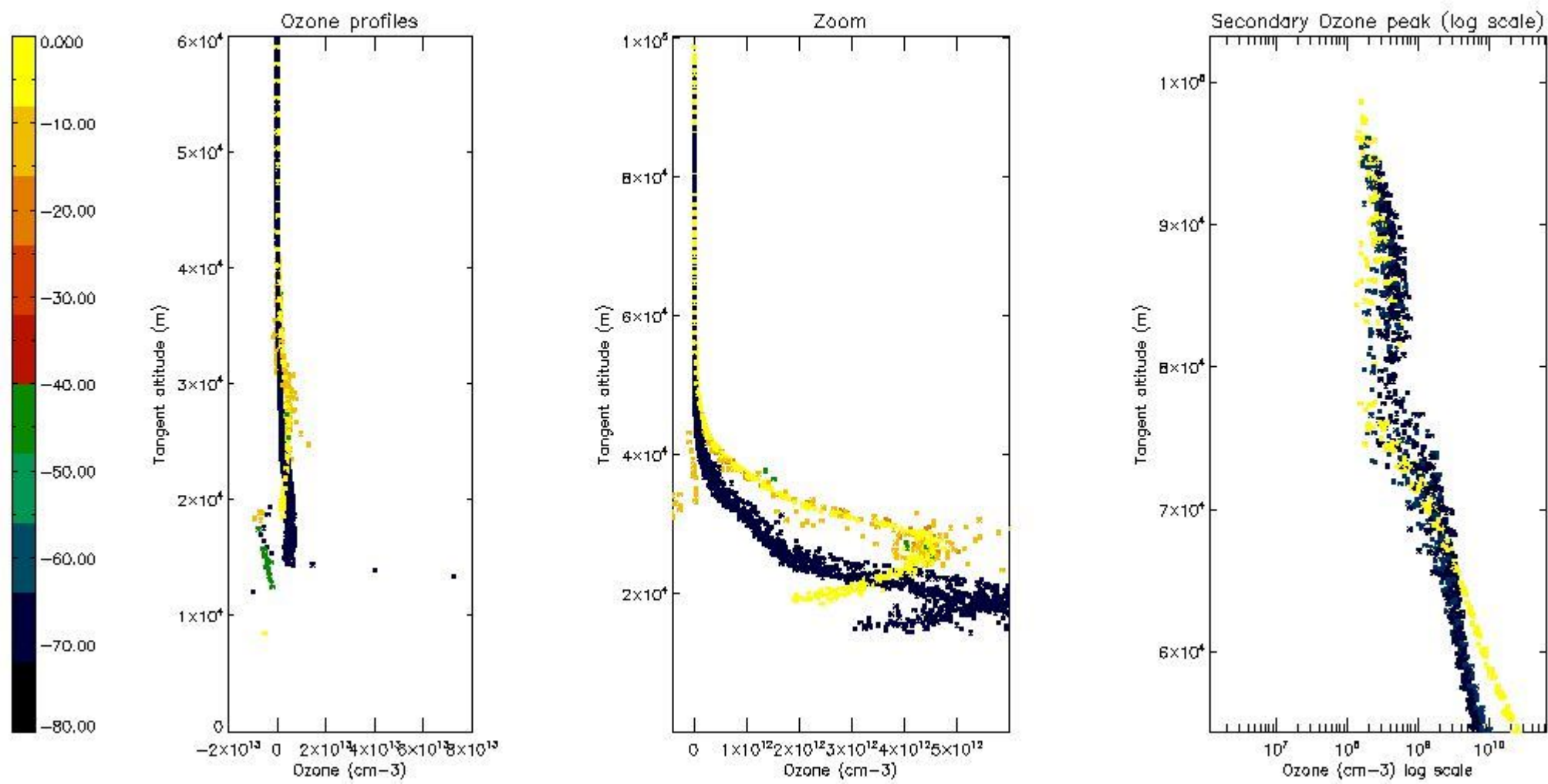
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



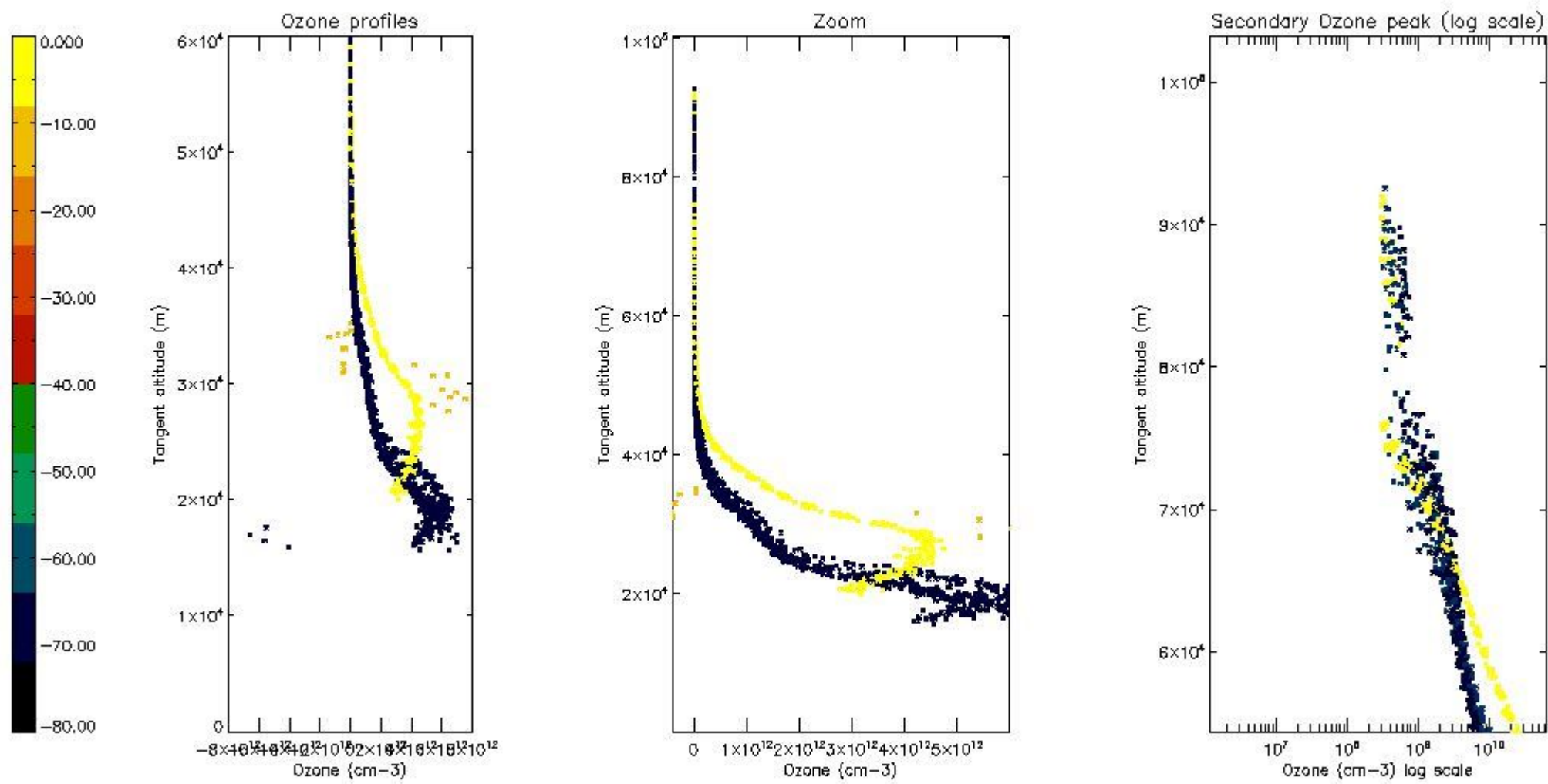
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



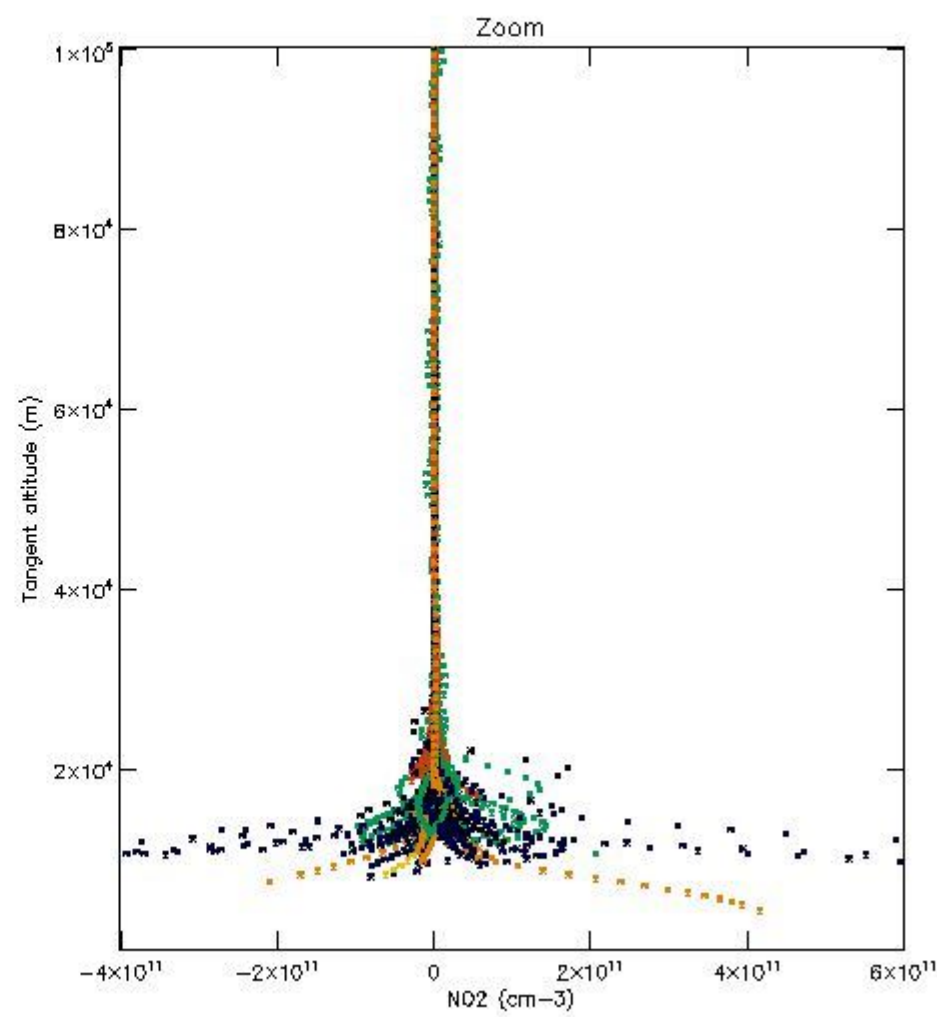
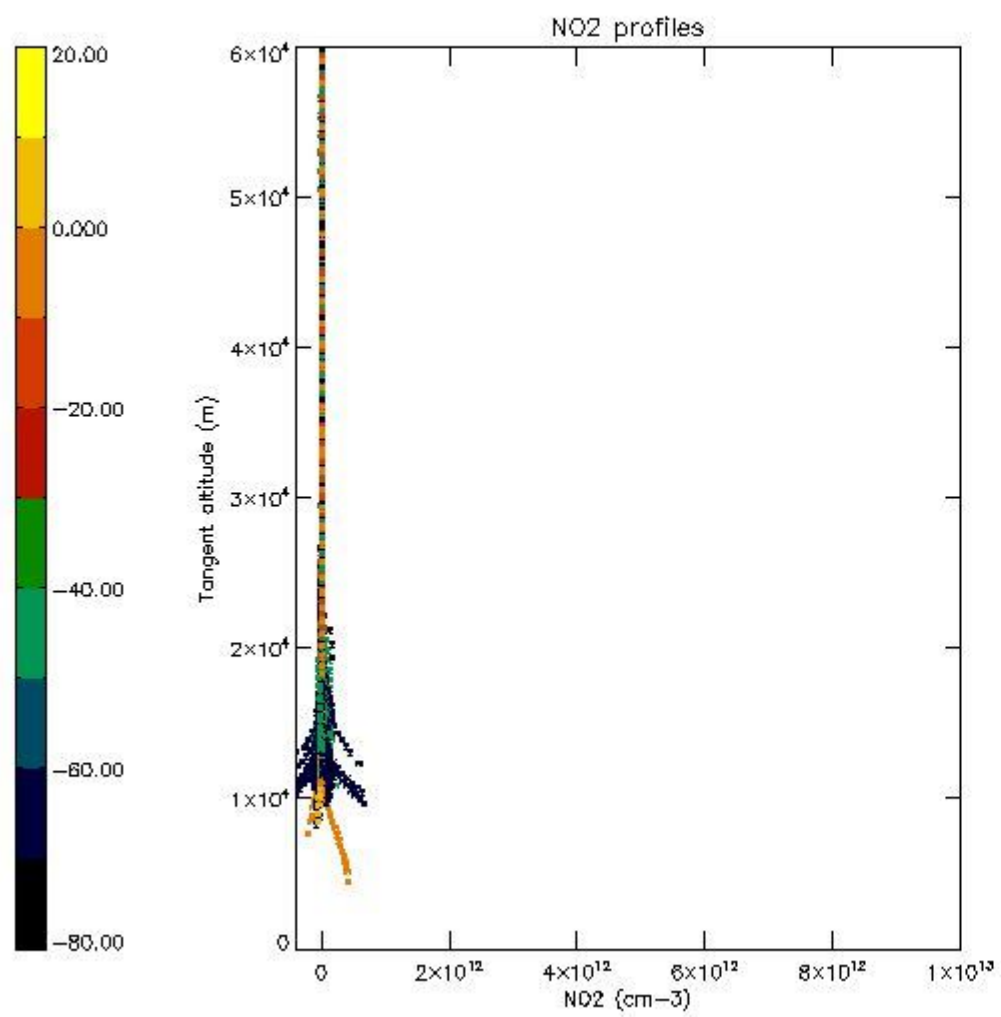
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



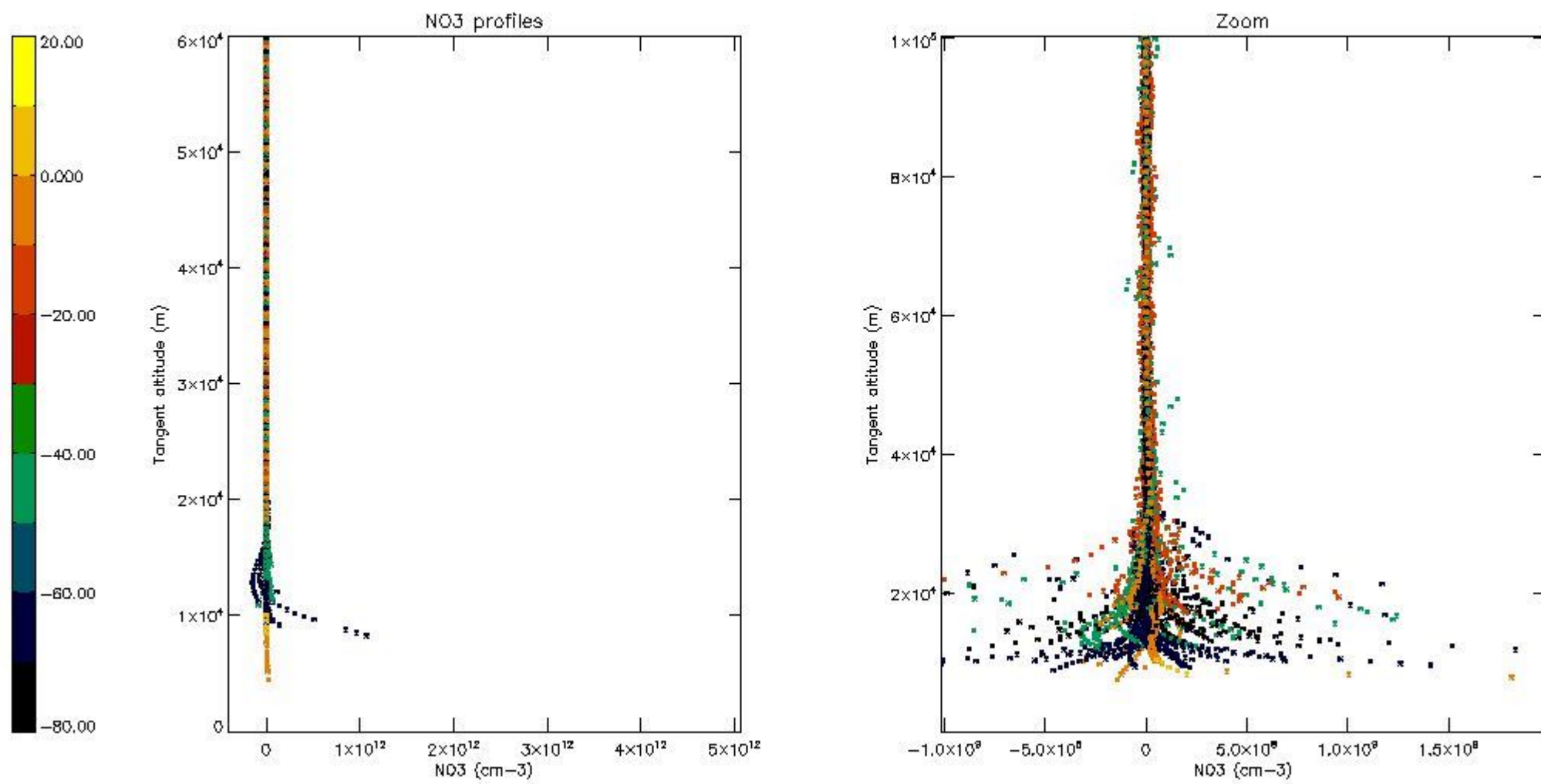
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



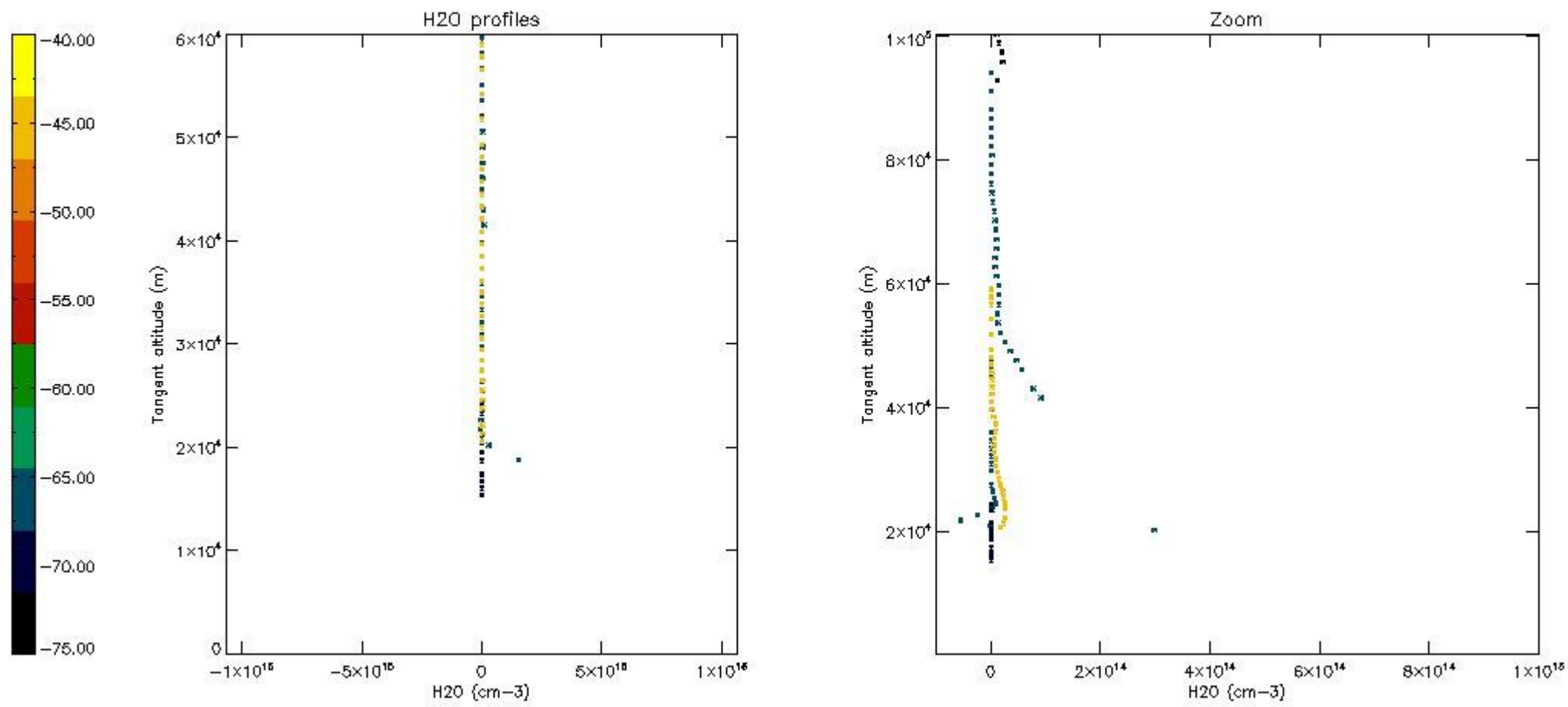
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

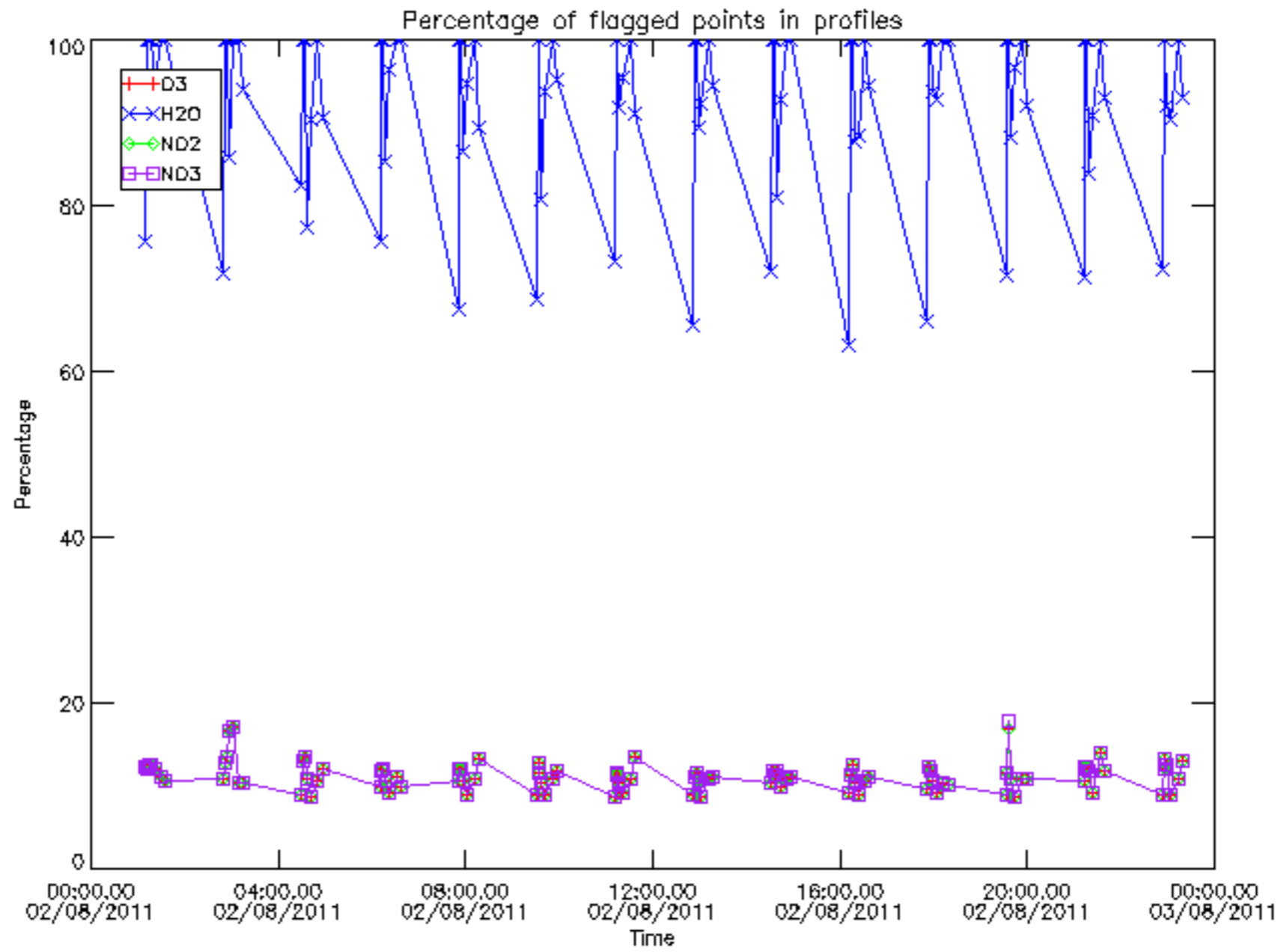
The colorbar represents the latitude.



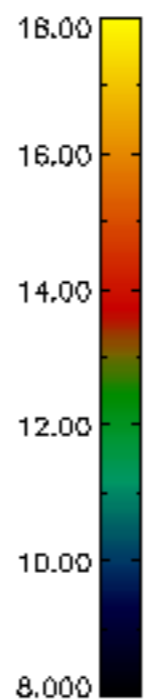
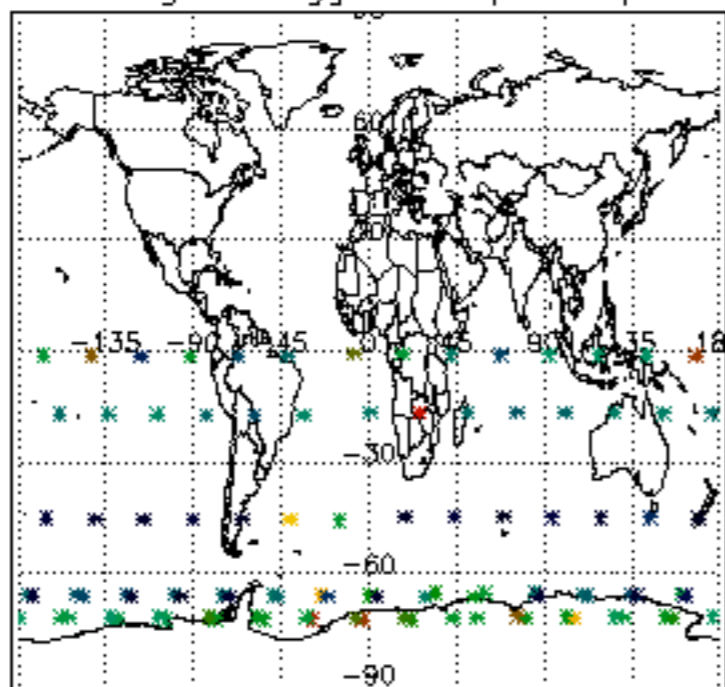
6. Auxiliary Data Files used for the production reported in section 2

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.

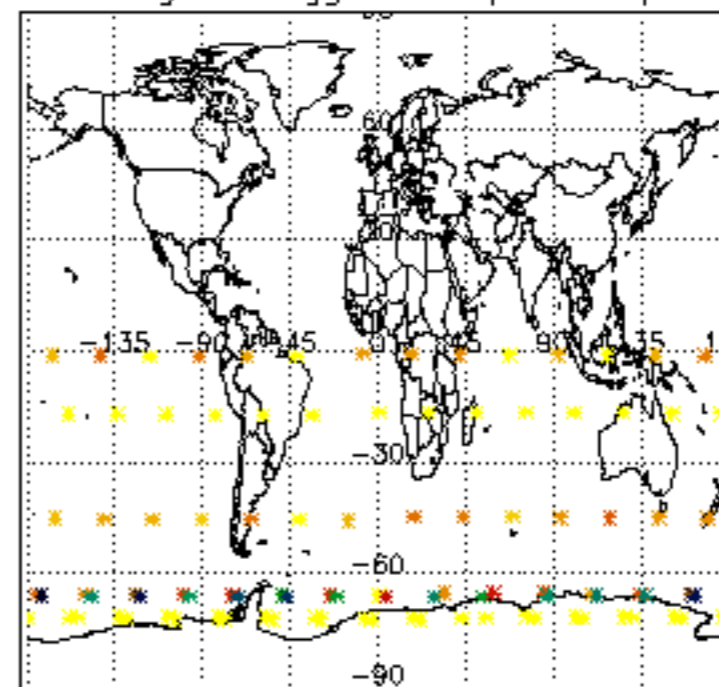
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	02-AUG-2011 00:00:15
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-AUG-2011 00:00:15
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-AUG-2011 00:00:15



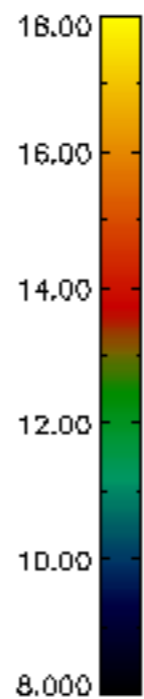
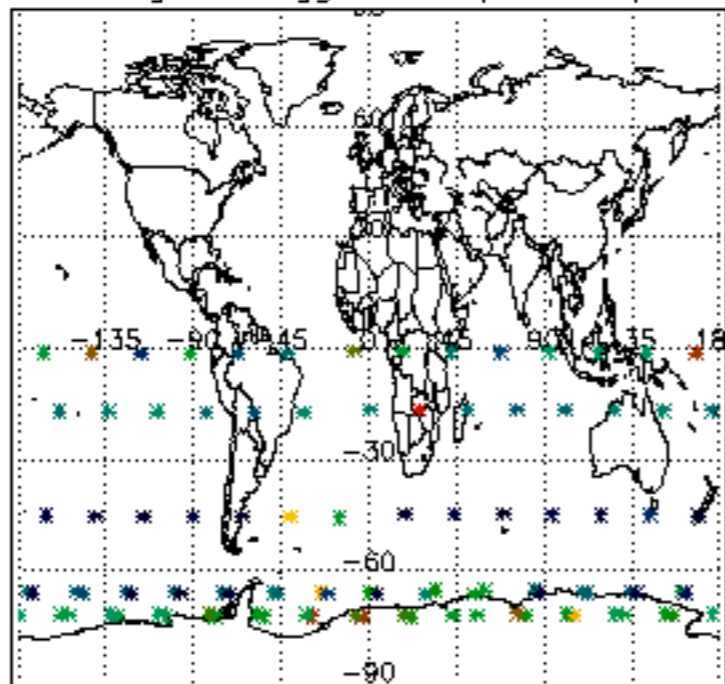
Percentage of flagged data per D3 profile



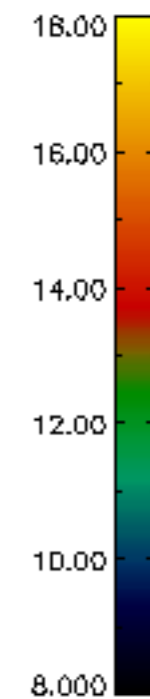
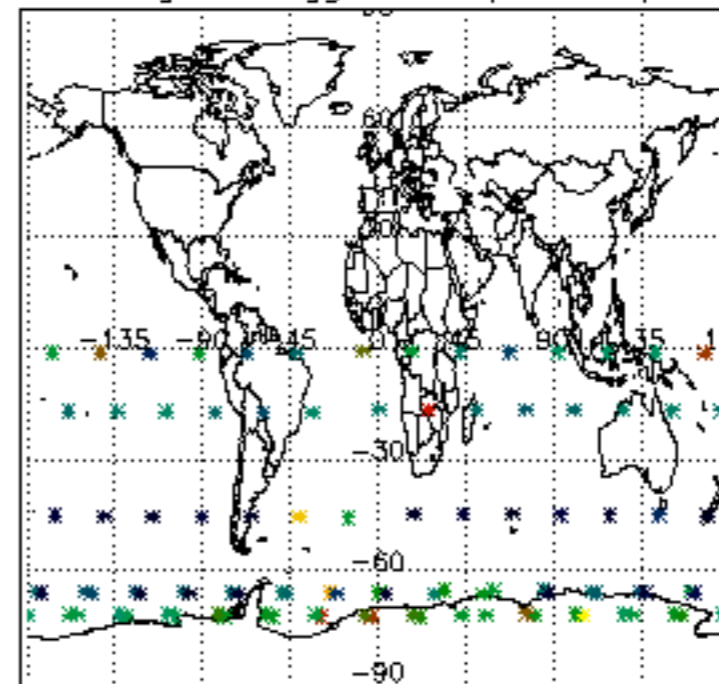
Percentage of flagged data per H2O profile

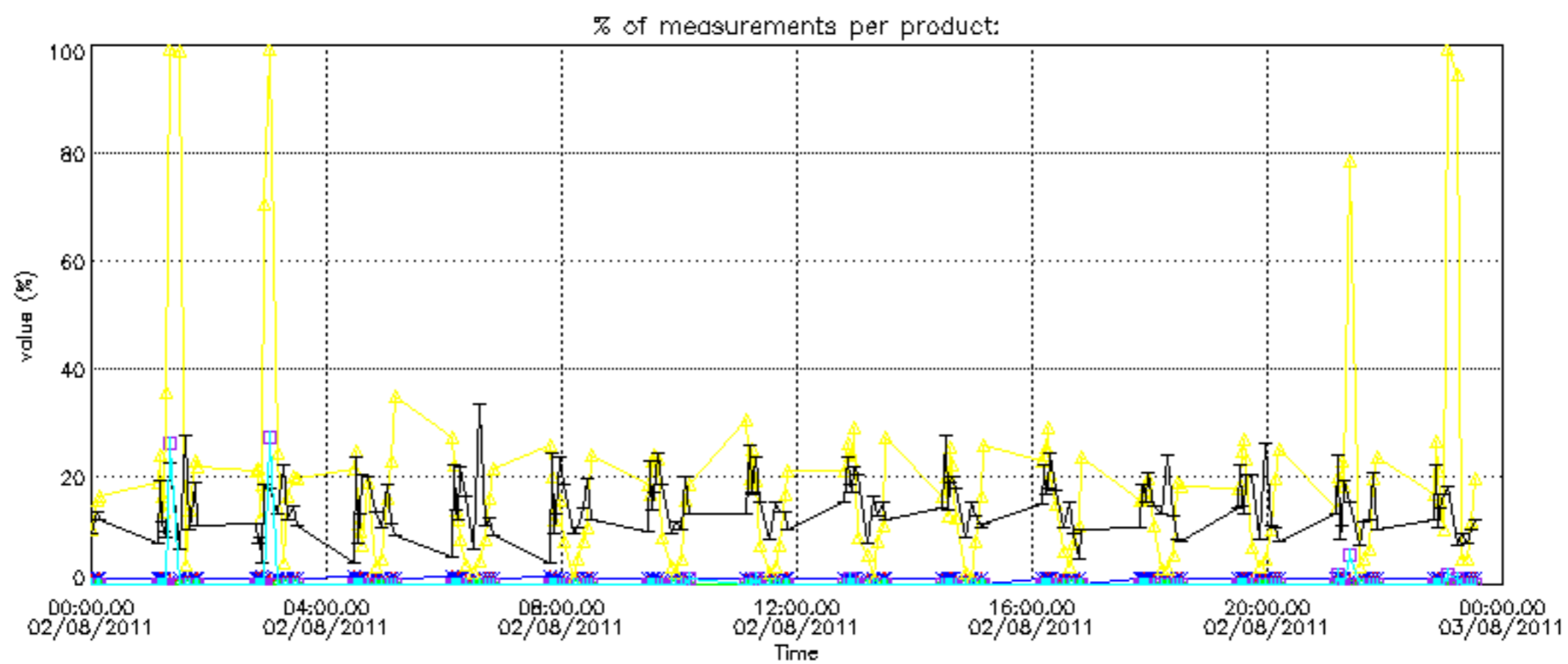
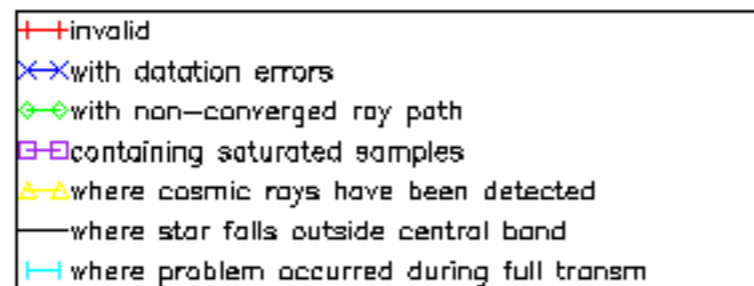


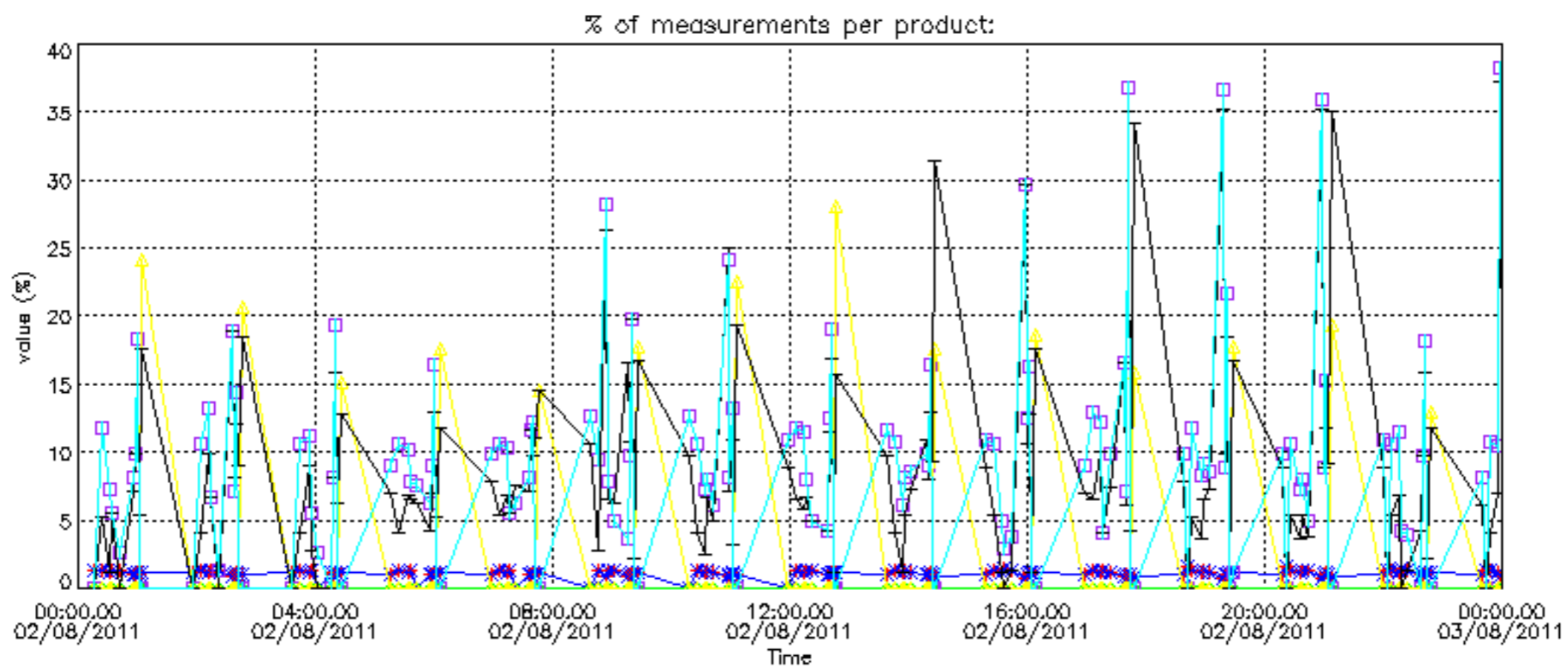
Percentage of flagged data per NO2 profile



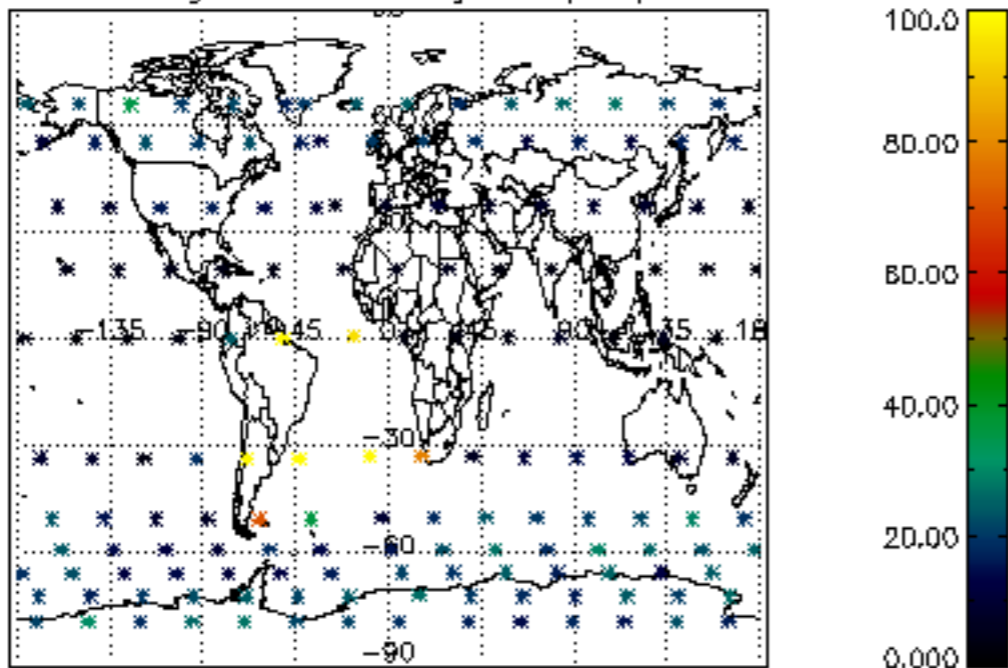
Percentage of flagged data per NO3 profile



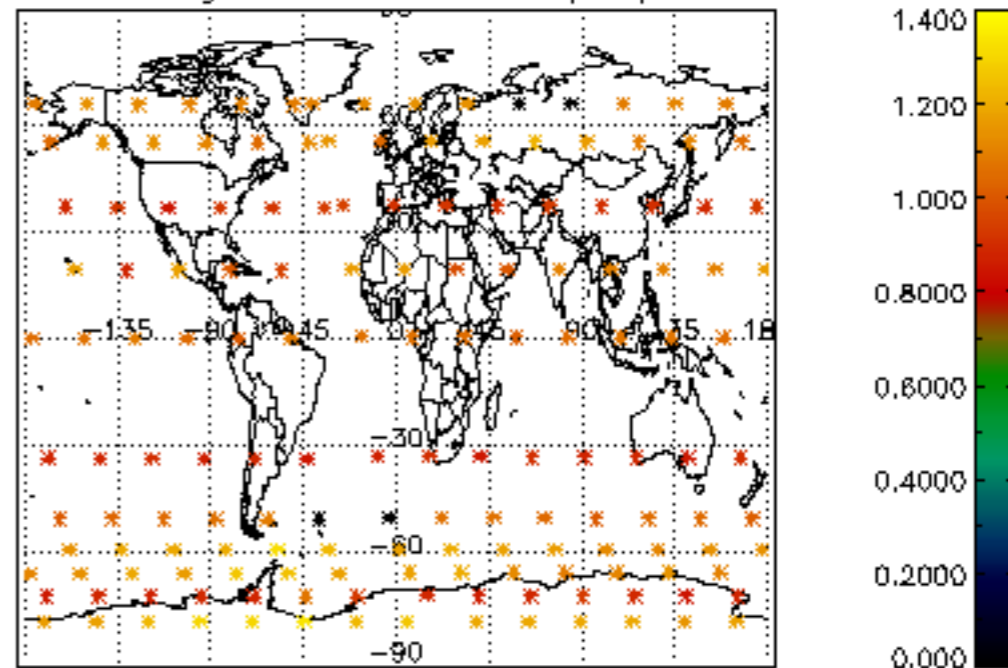




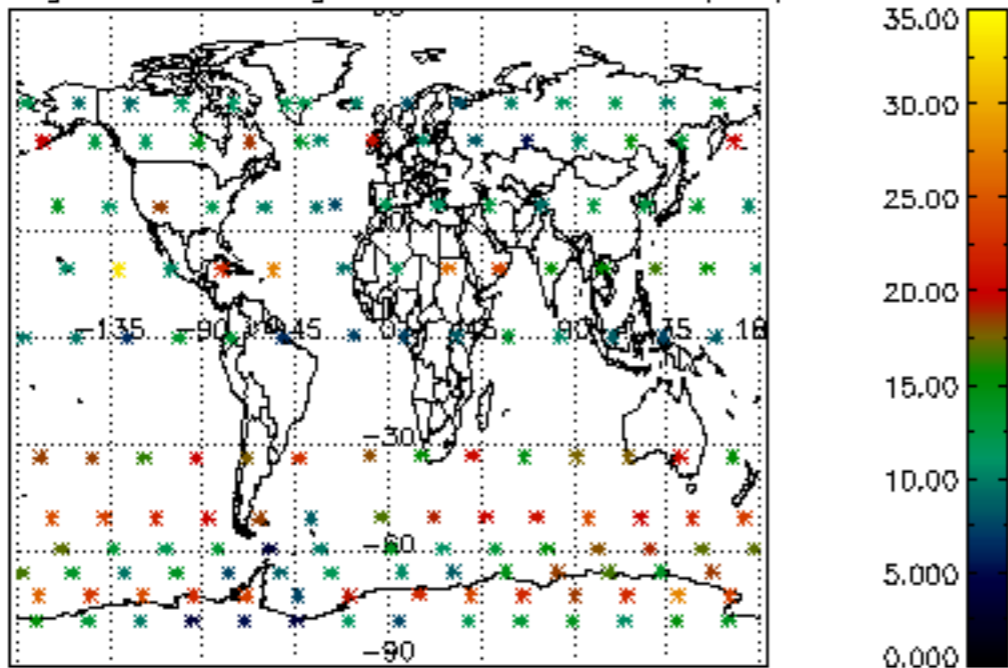
Percentage of cosmic ray hits per profile



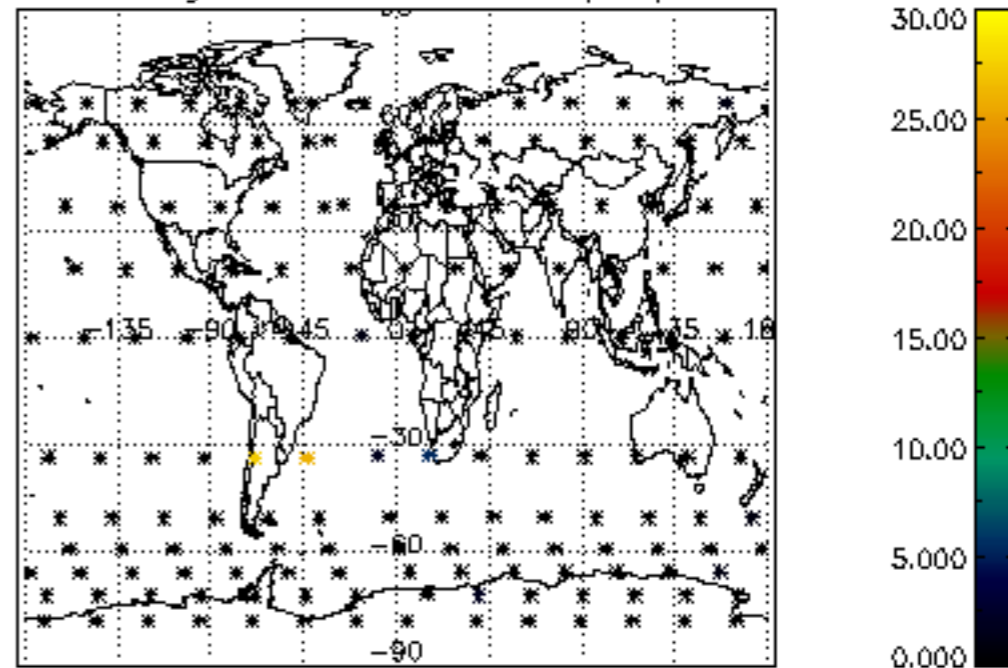
Percentage of datation errors per profile



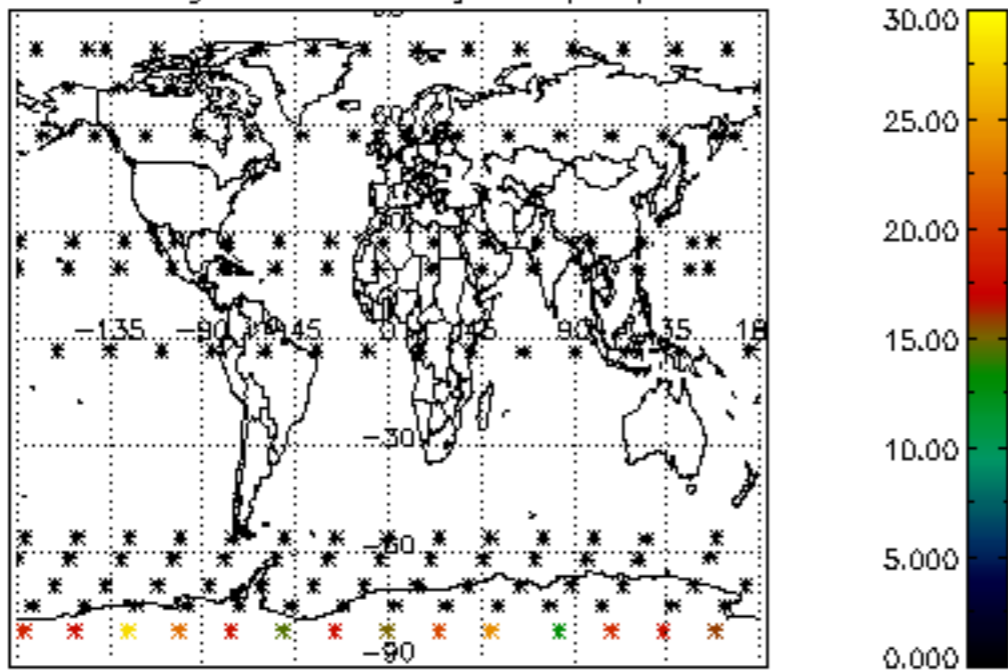
Percentage of star falling outside central band per profile



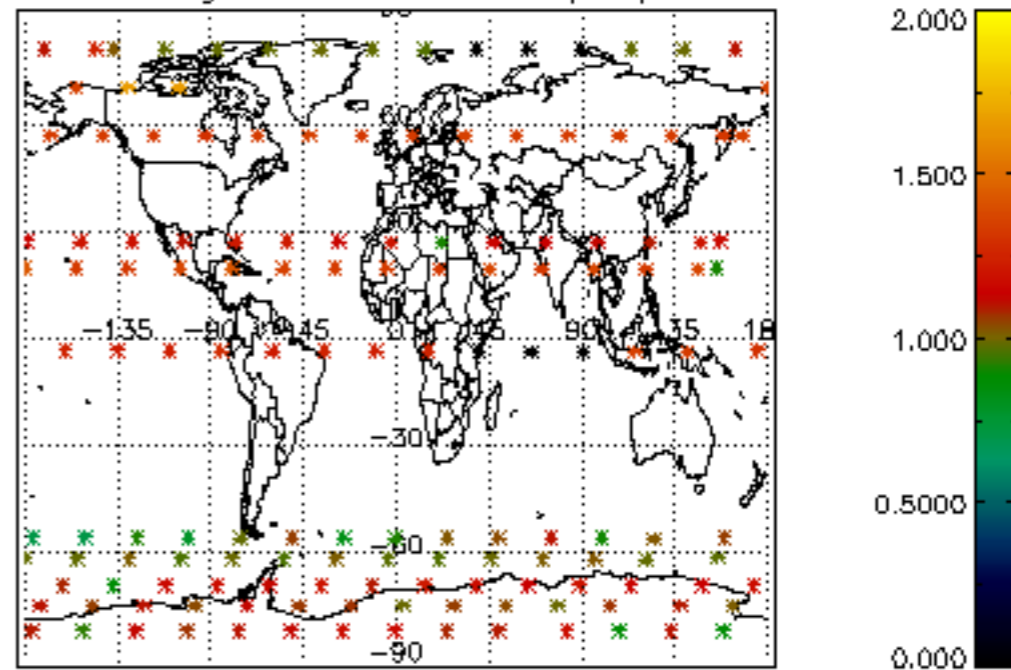
Percentage of saturation errors per profile



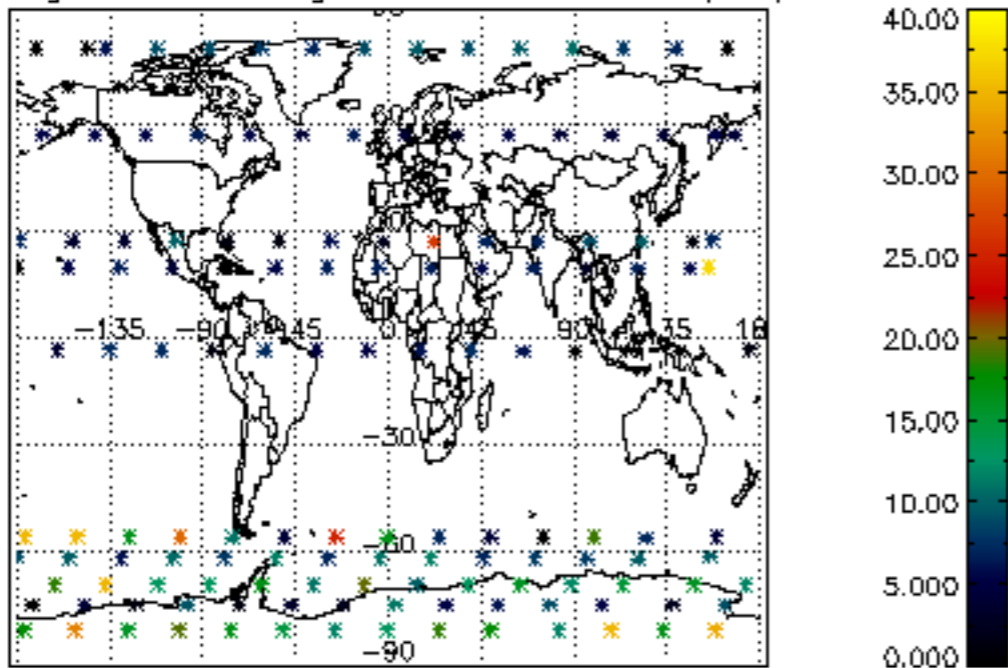
Percentage of cosmic ray hits per profile



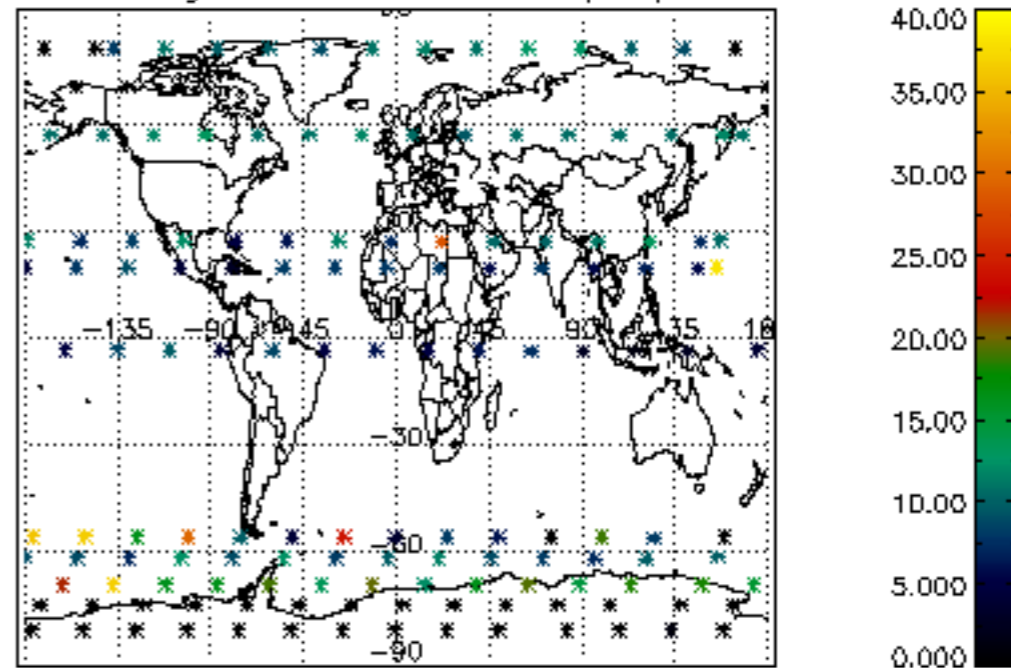
Percentage of datation errors per profile

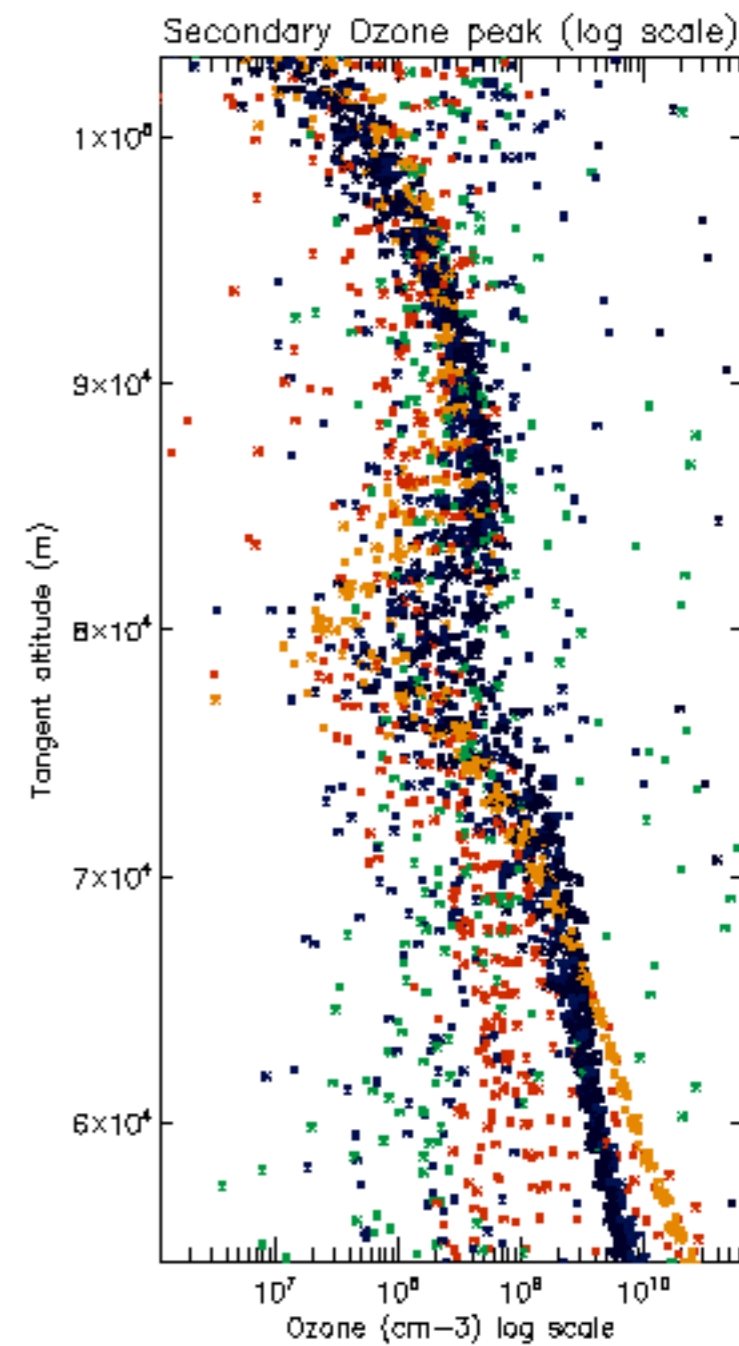
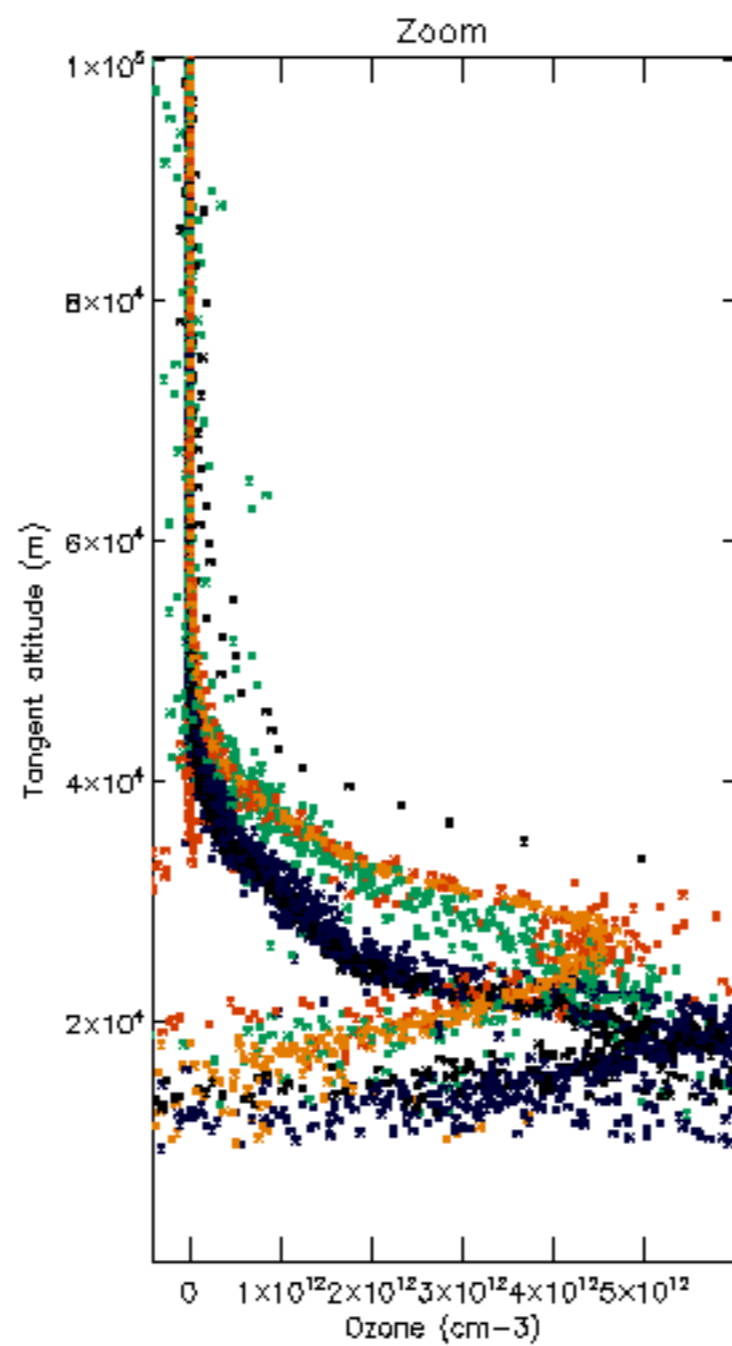
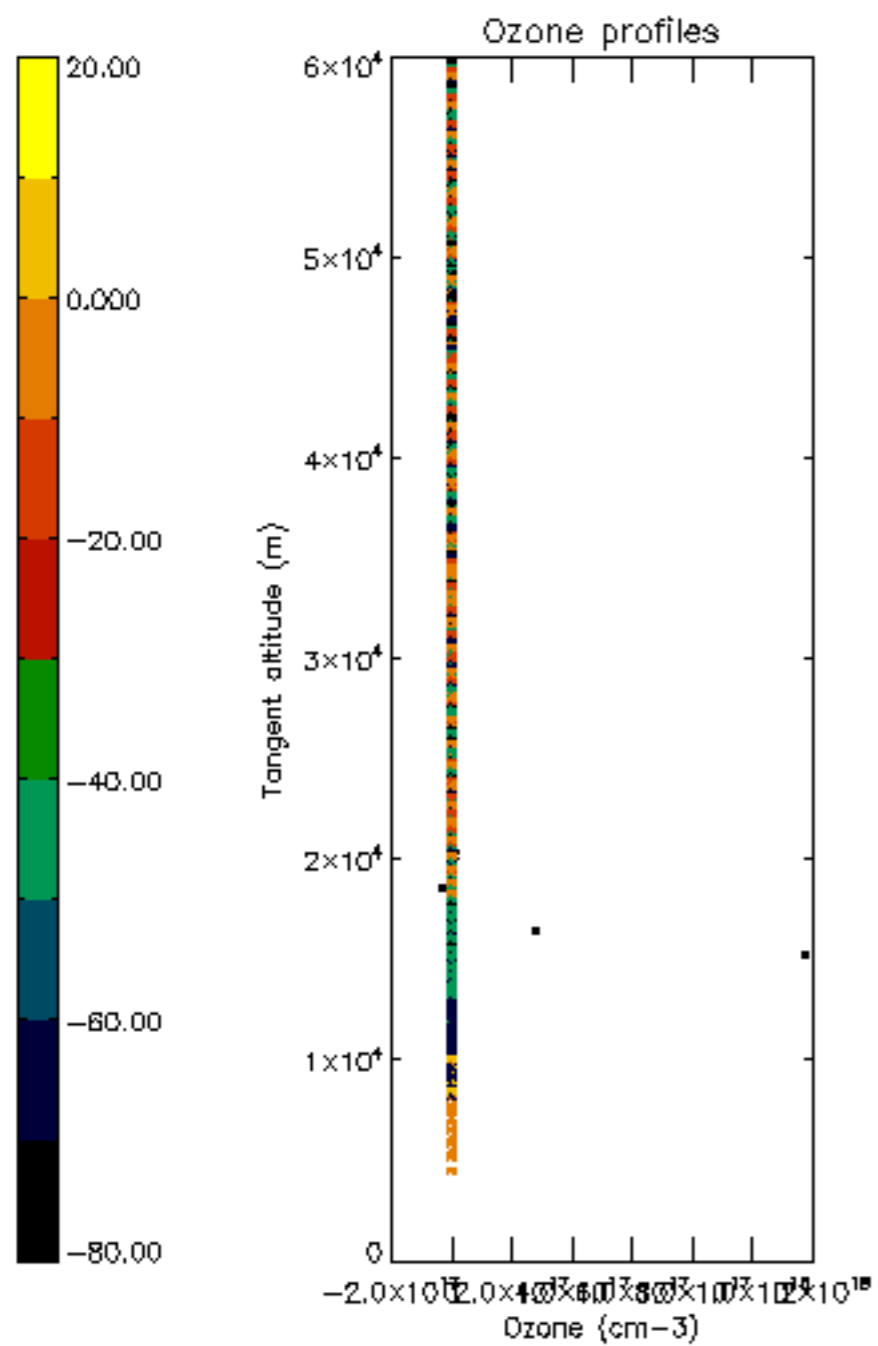


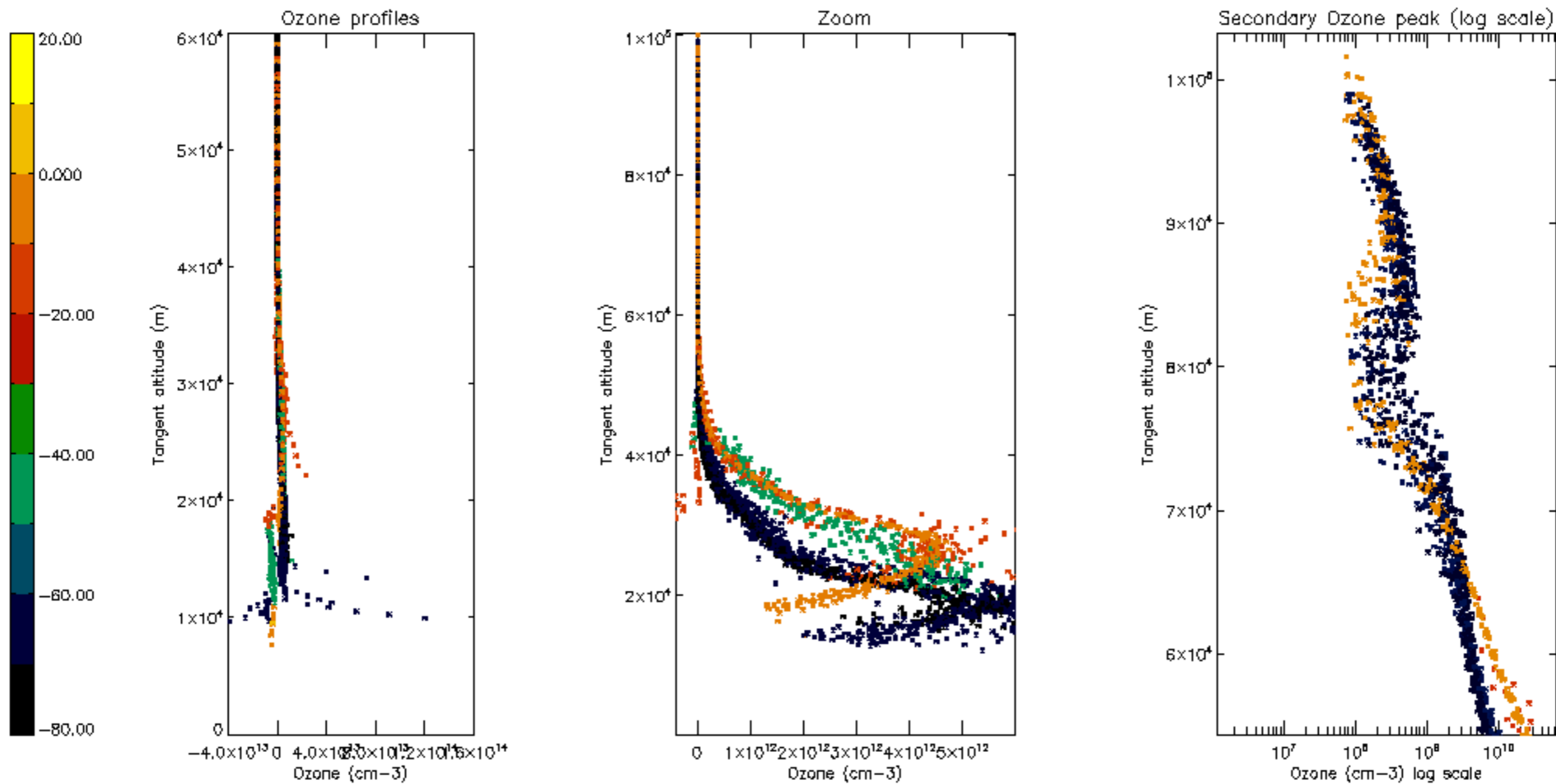
Percentage of star falling outside central band per profile

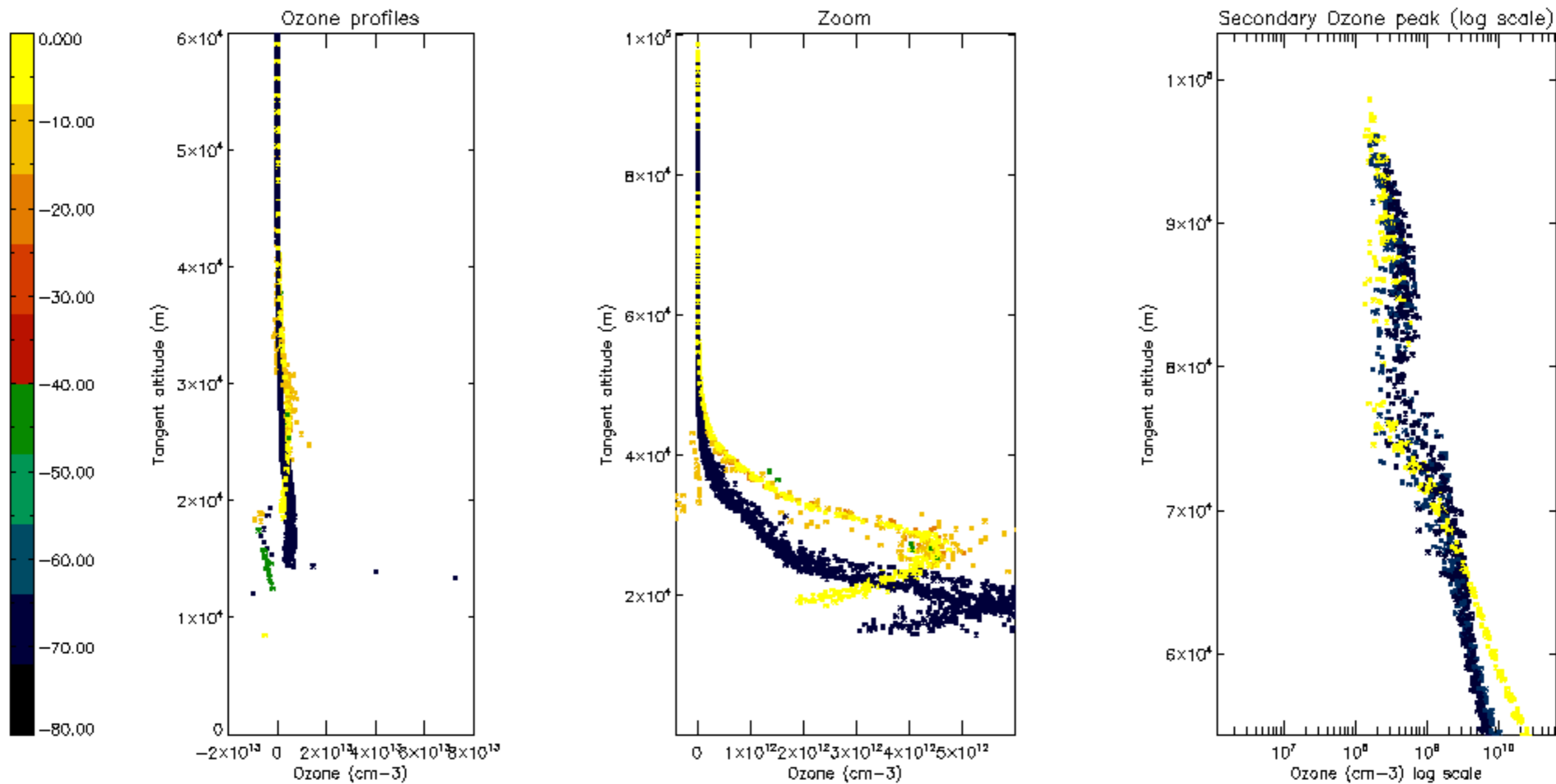


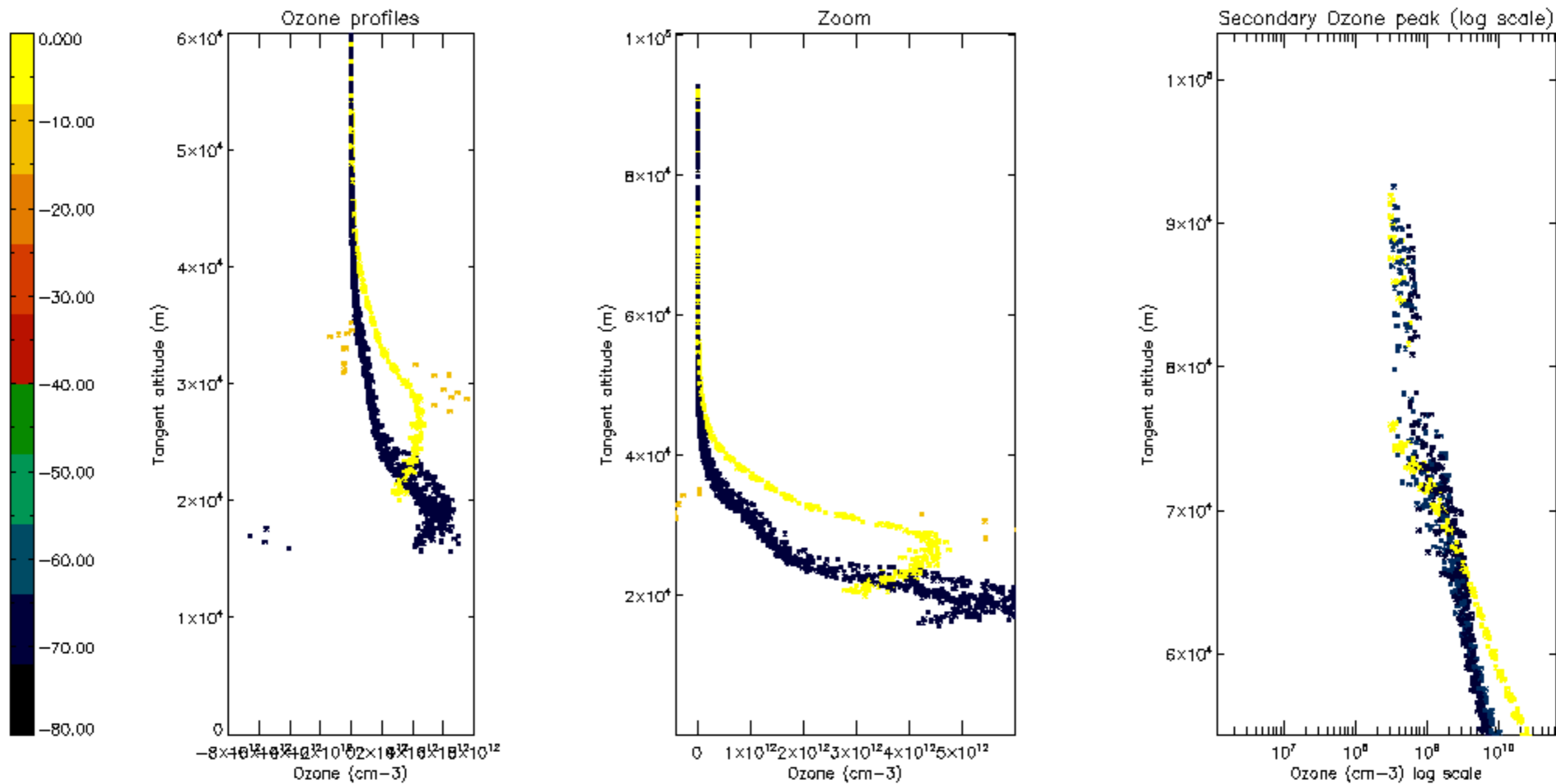
Percentage of saturation errors per profile

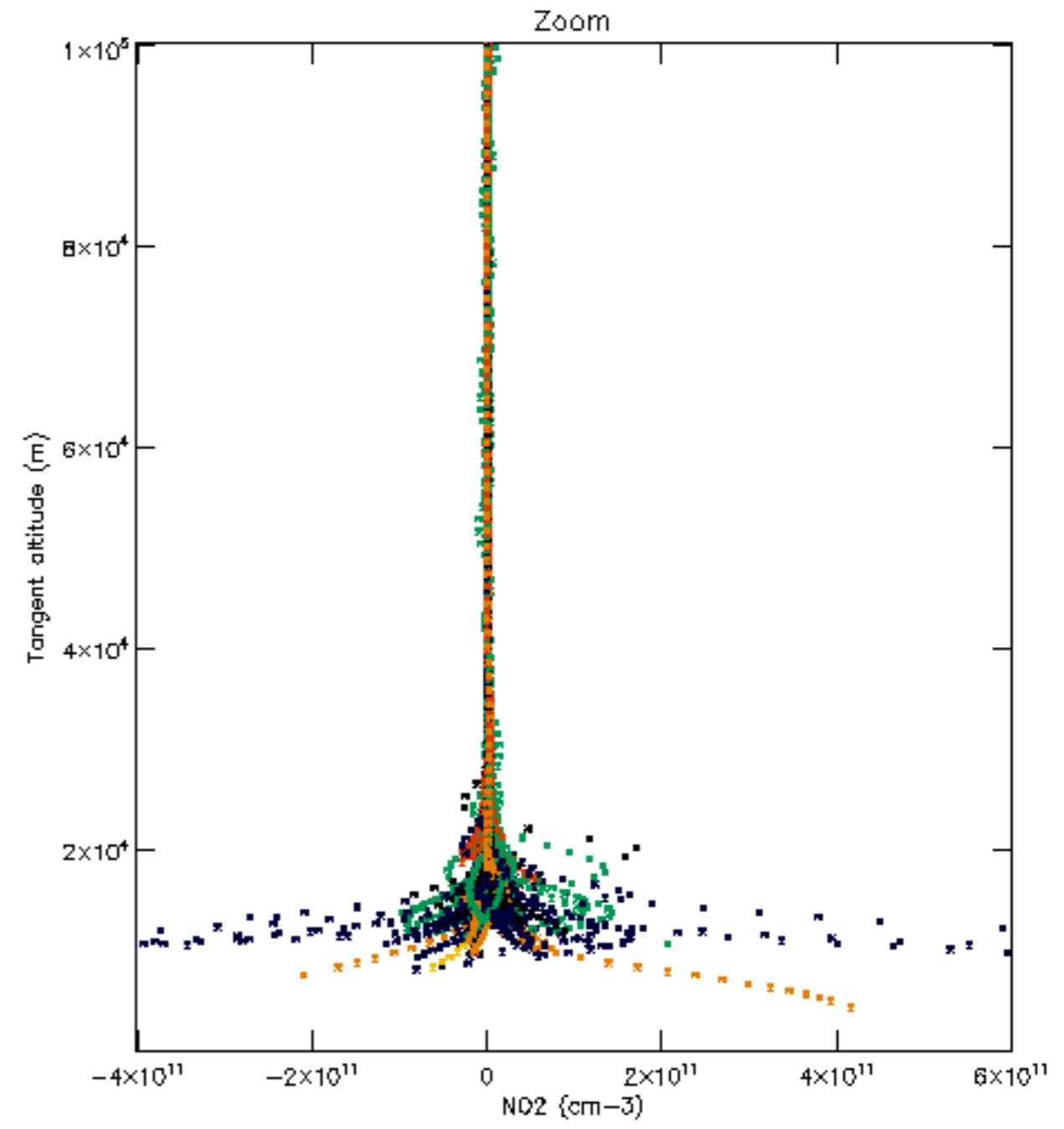
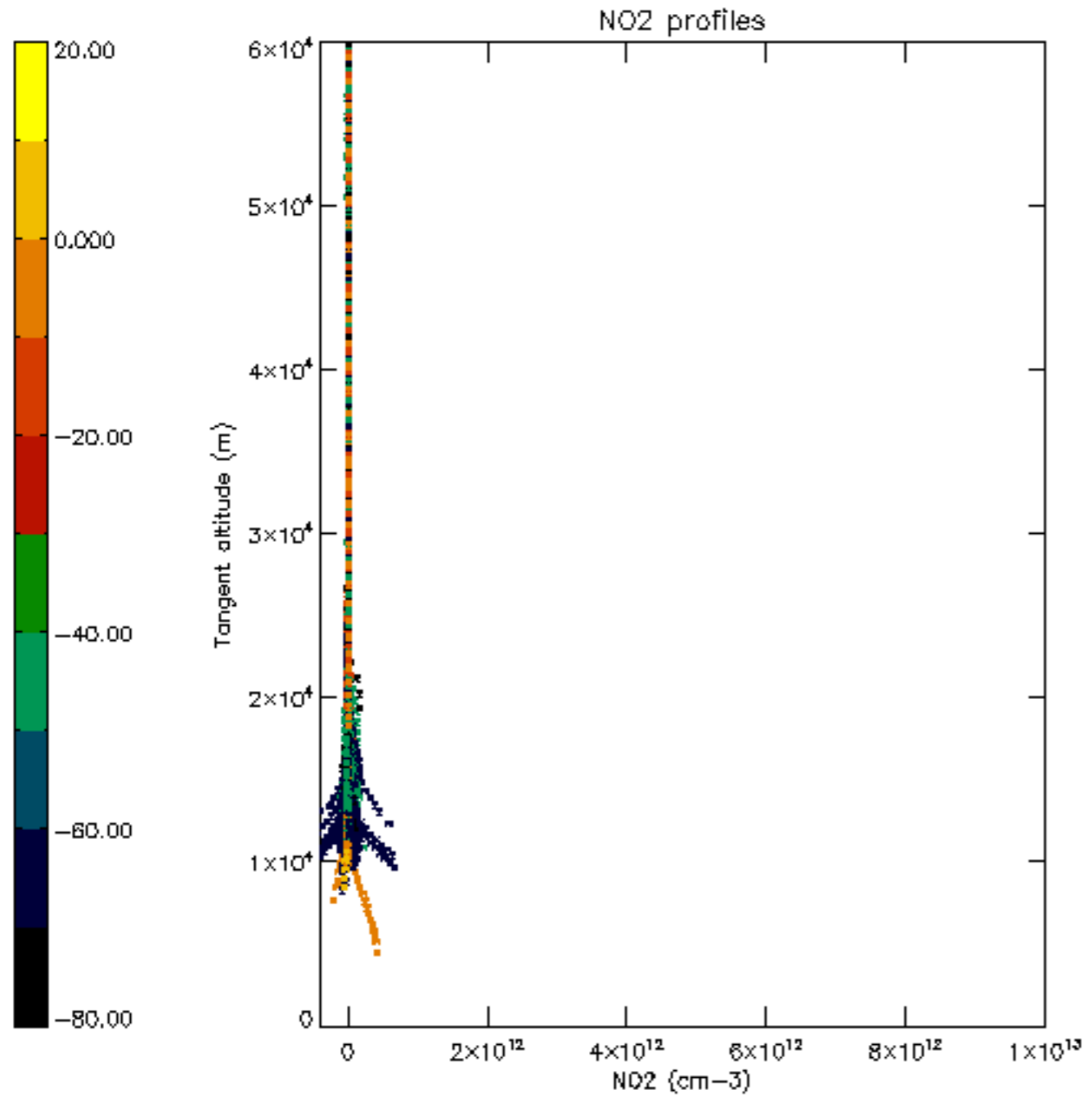


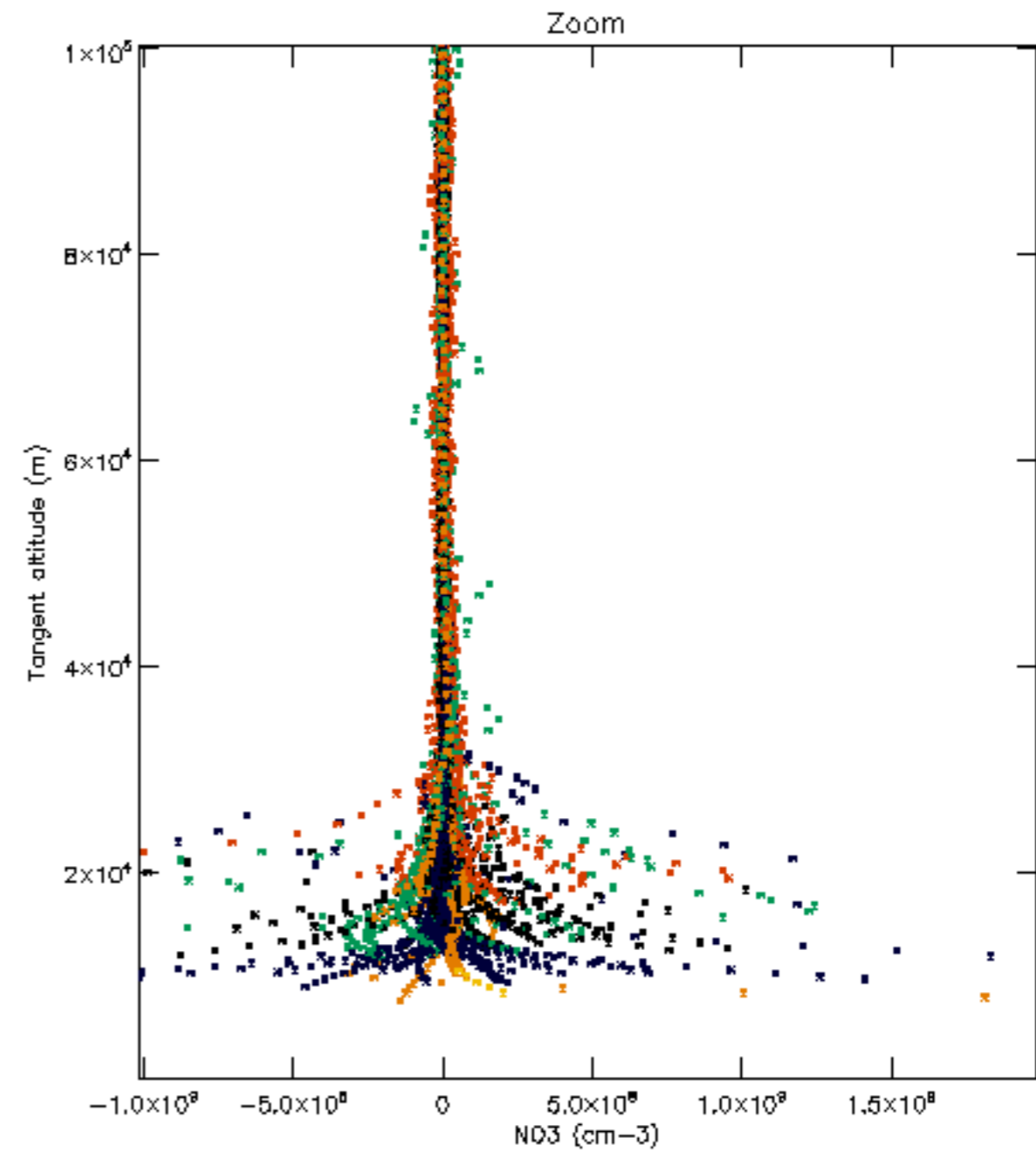
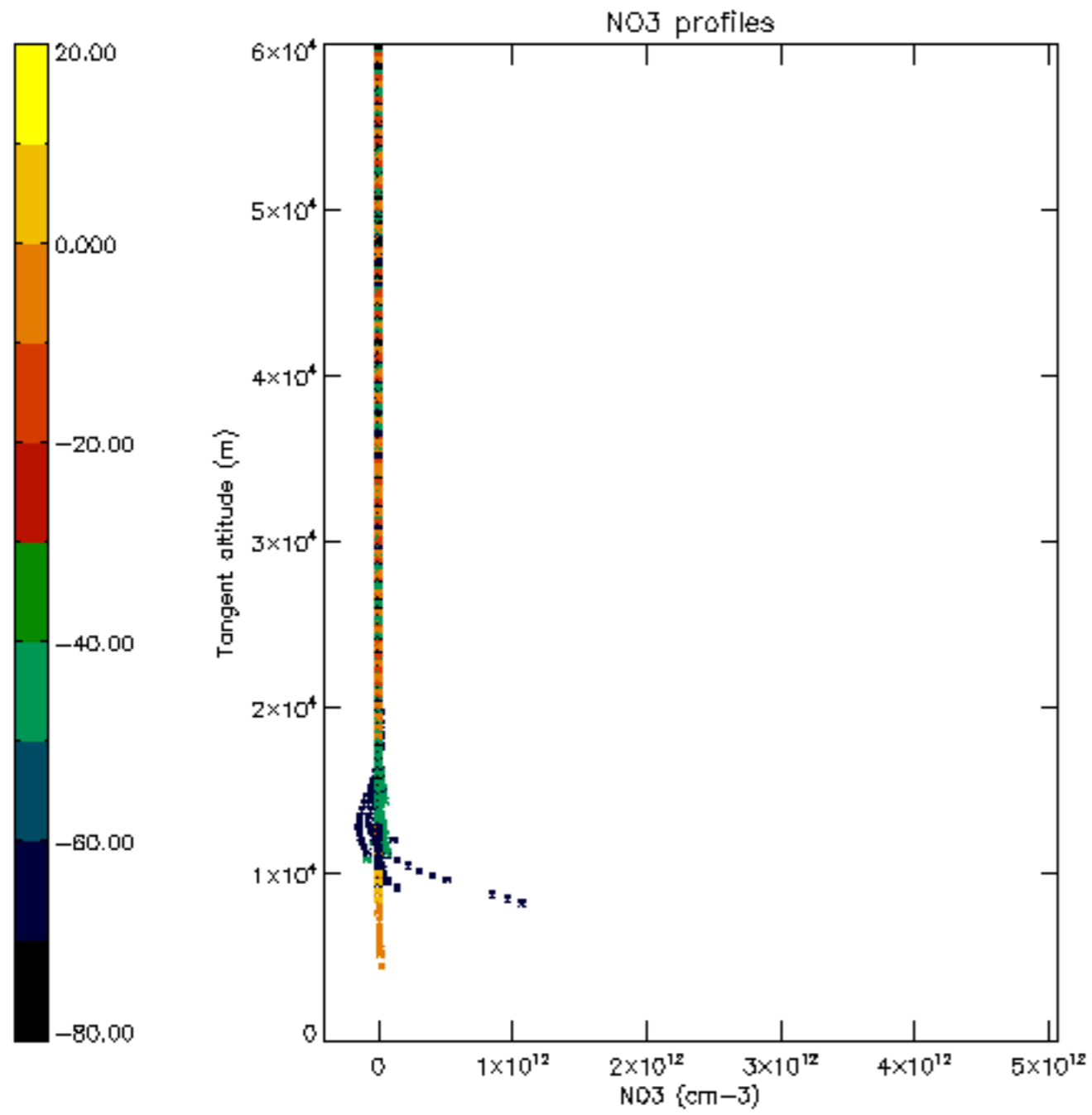


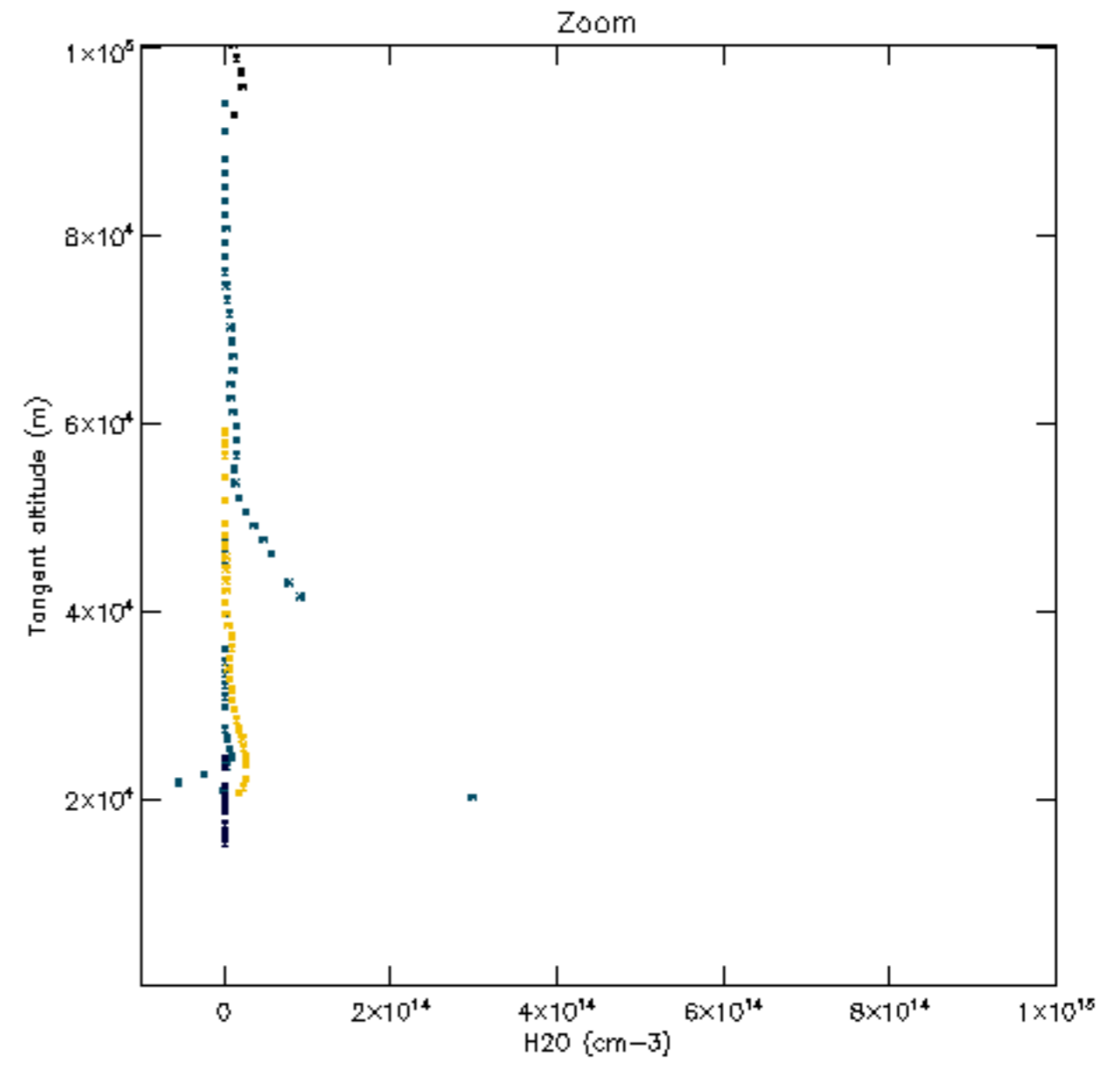
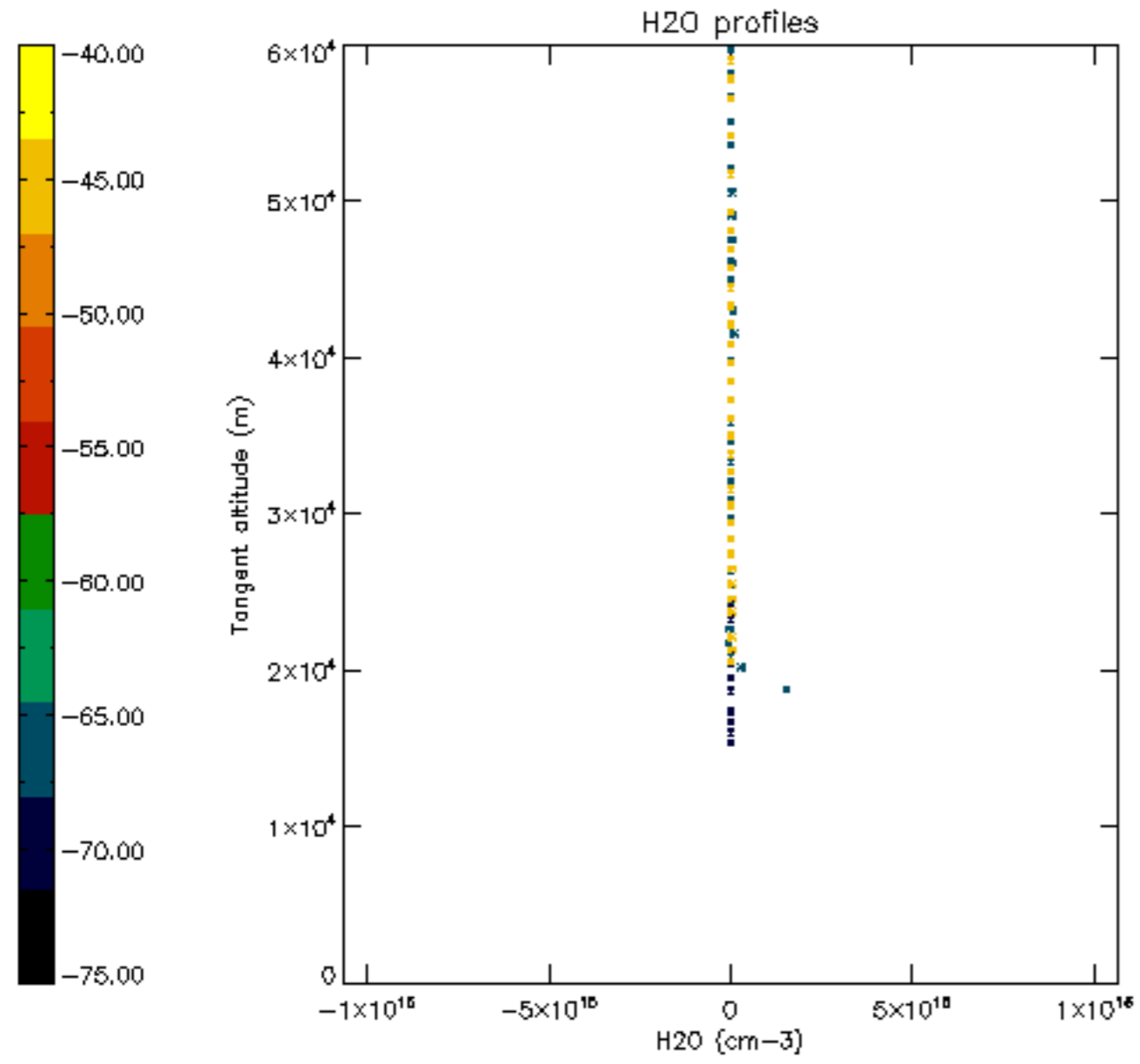


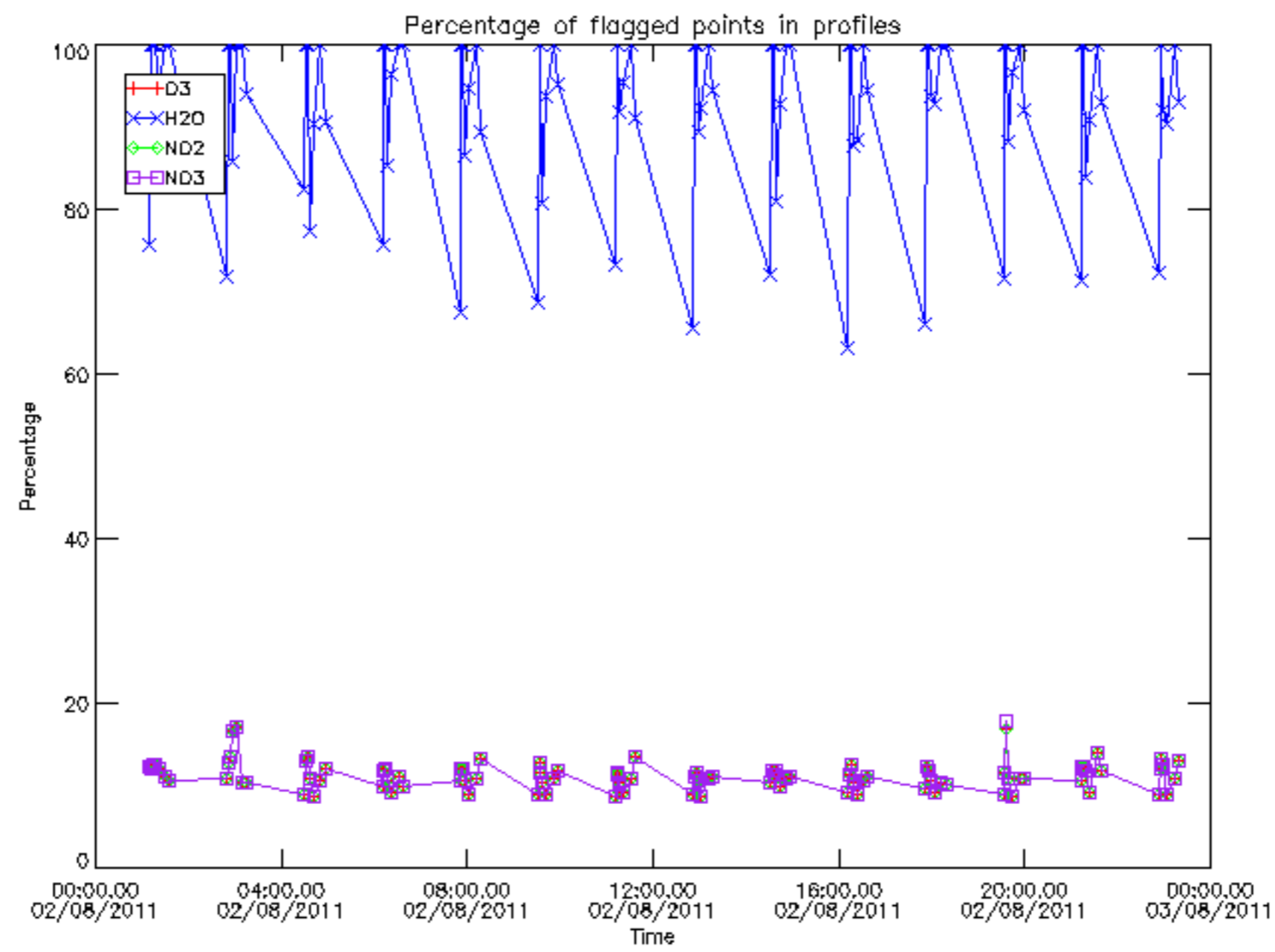




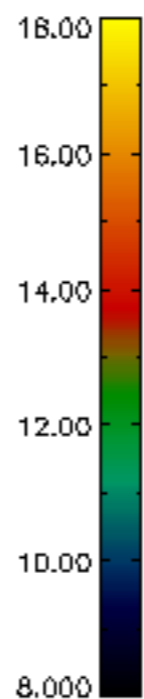
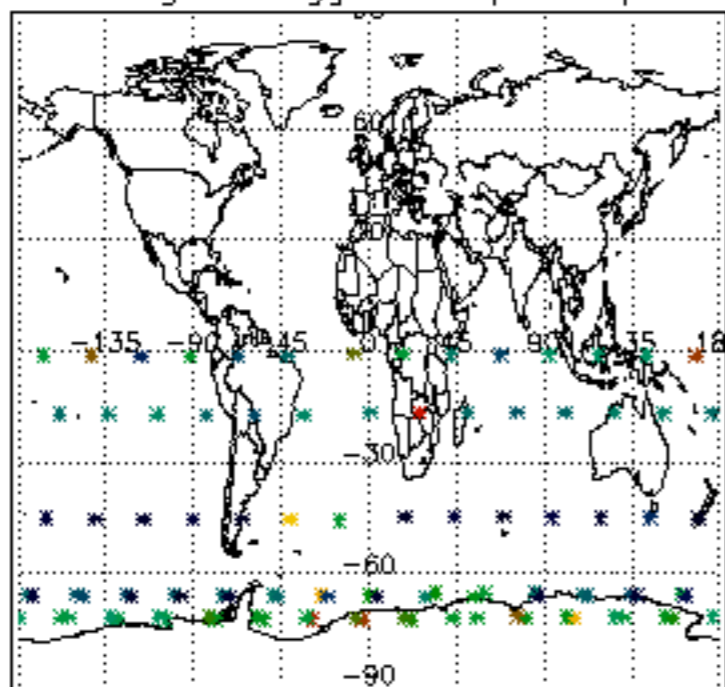




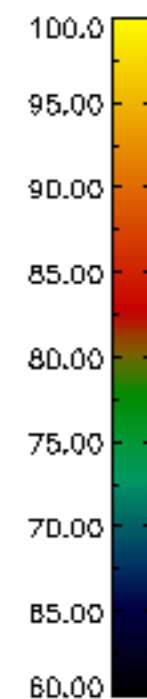
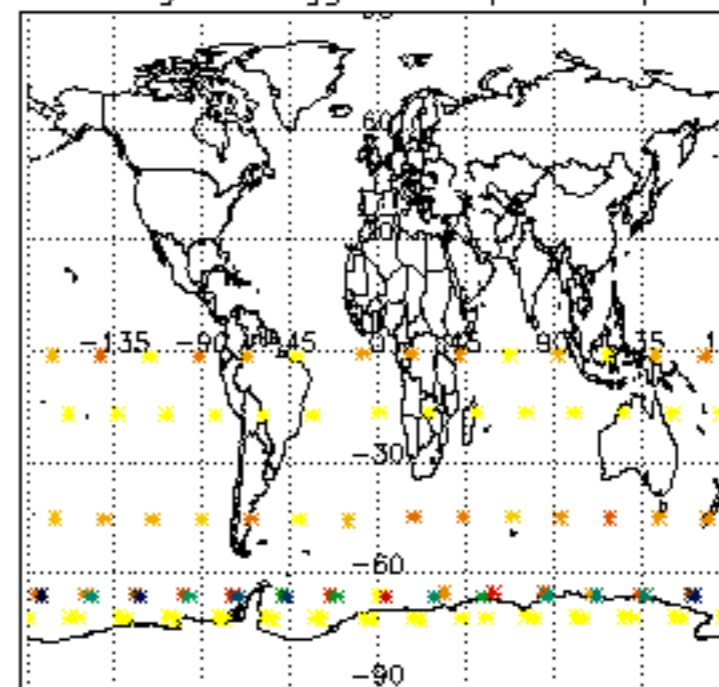




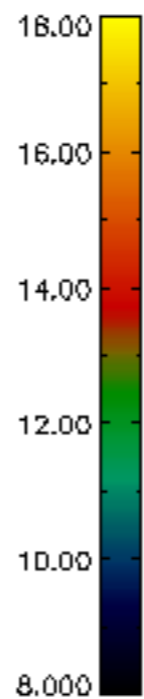
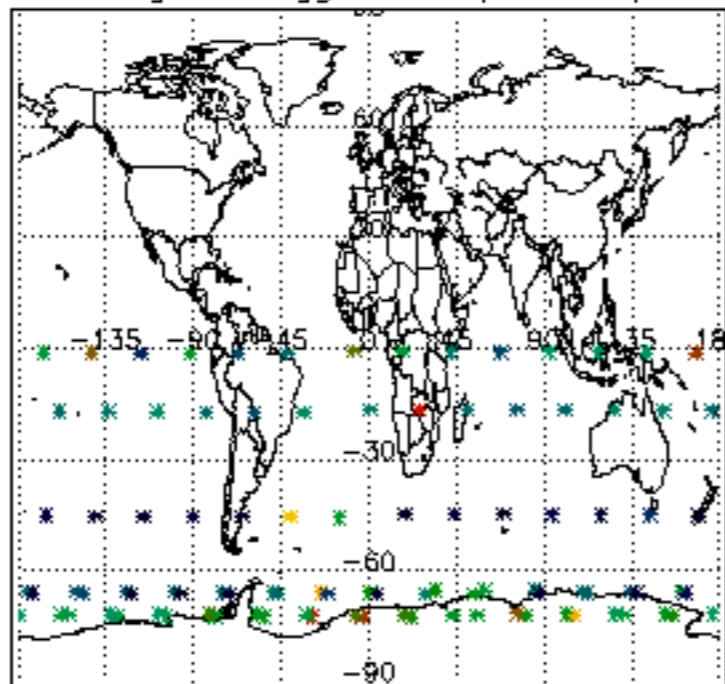
Percentage of flagged data per D3 profile



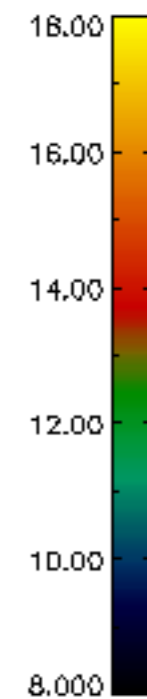
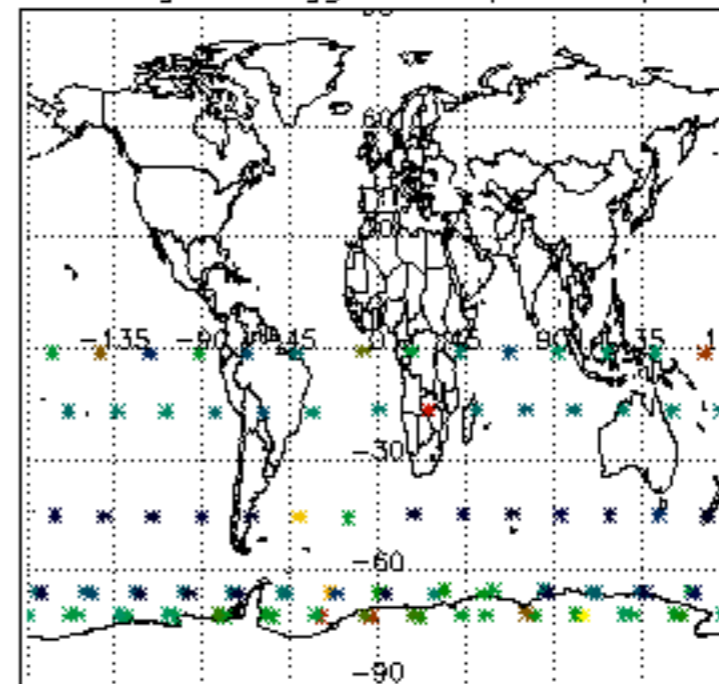
Percentage of flagged data per H2O profile

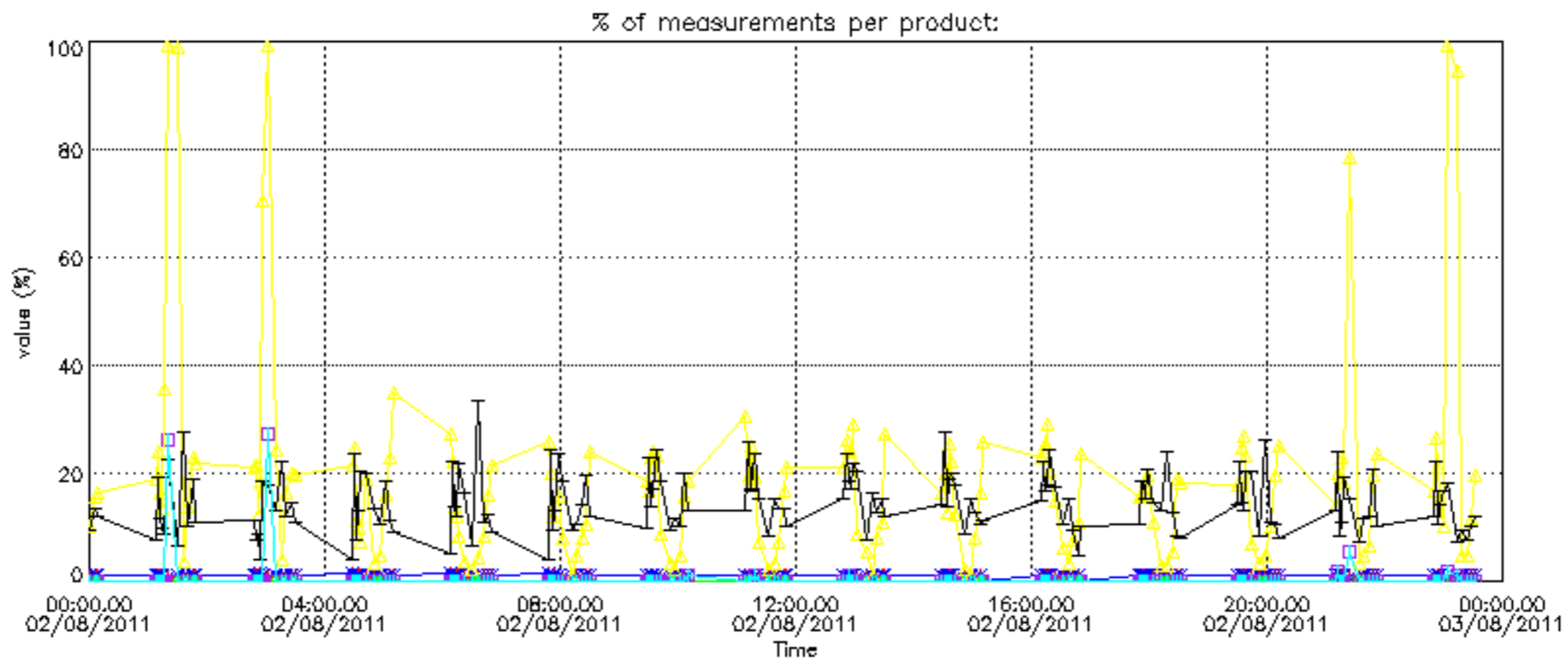


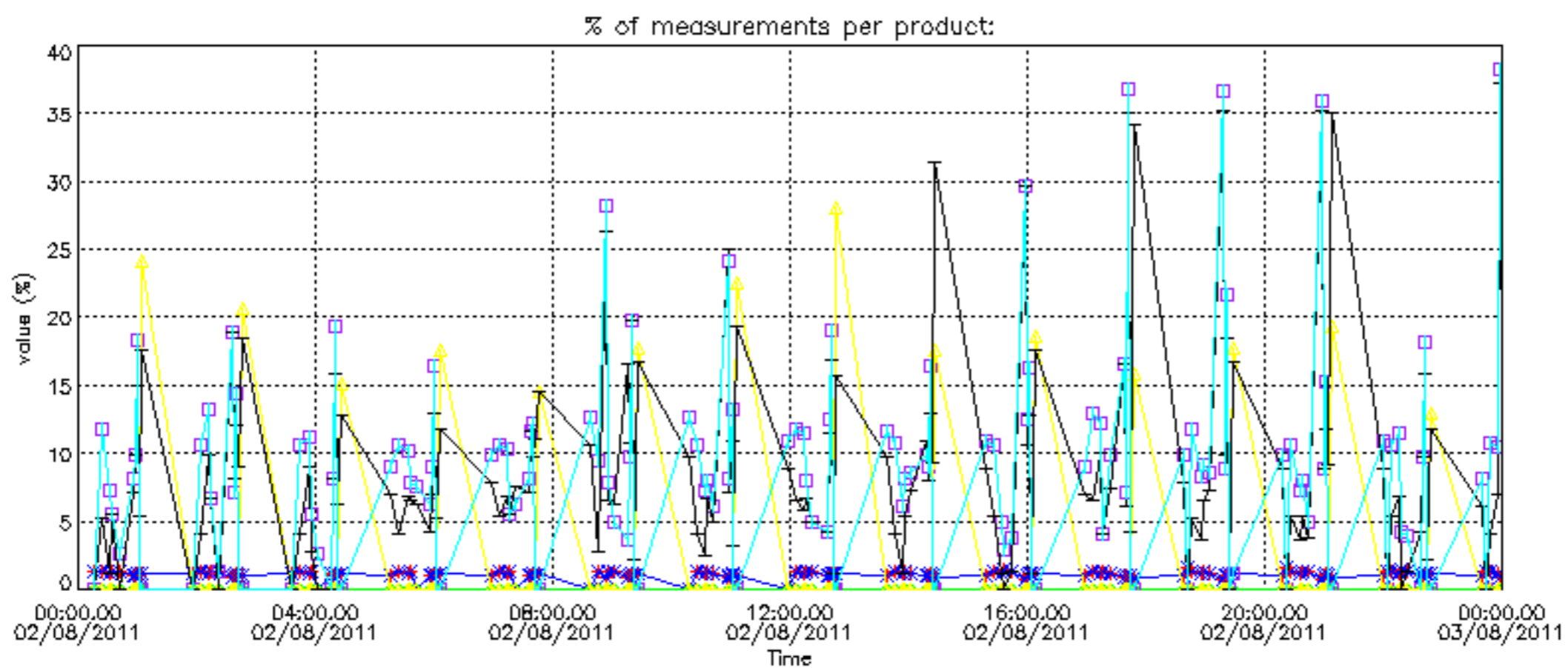
Percentage of flagged data per NO2 profile



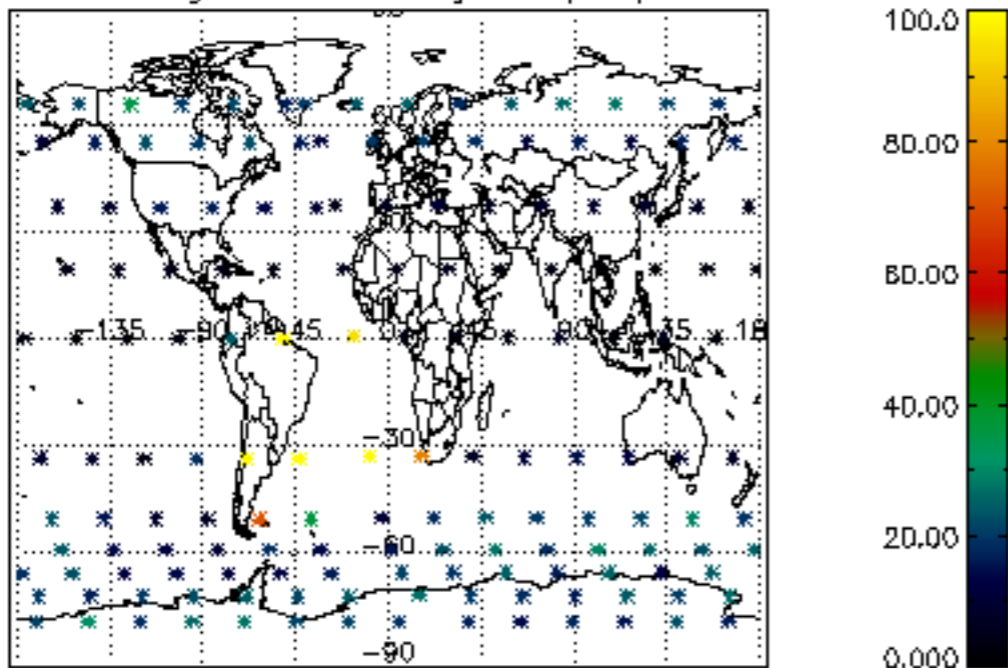
Percentage of flagged data per NO3 profile



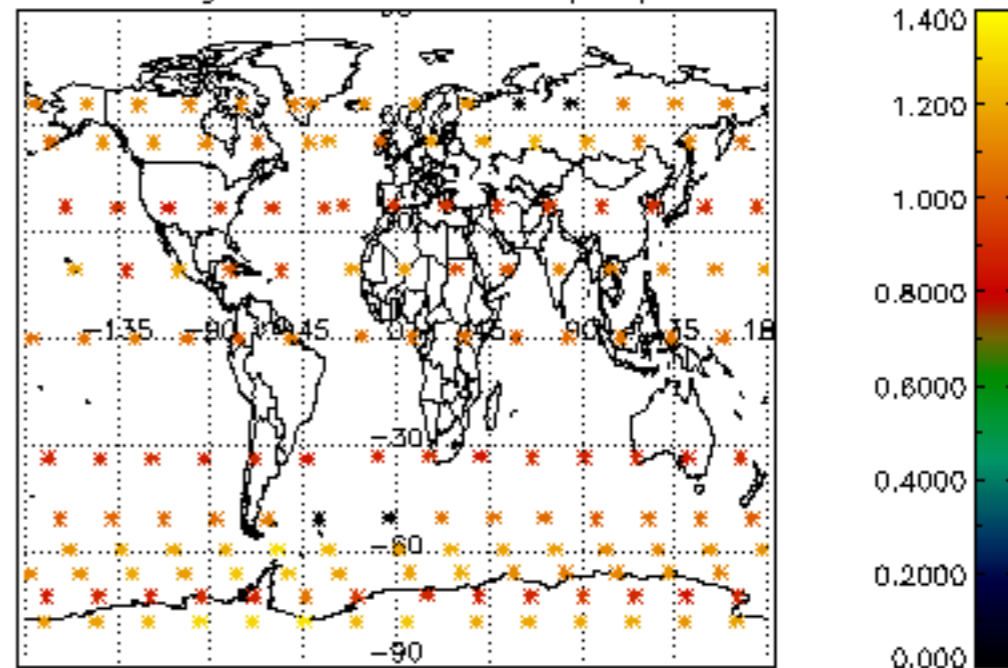




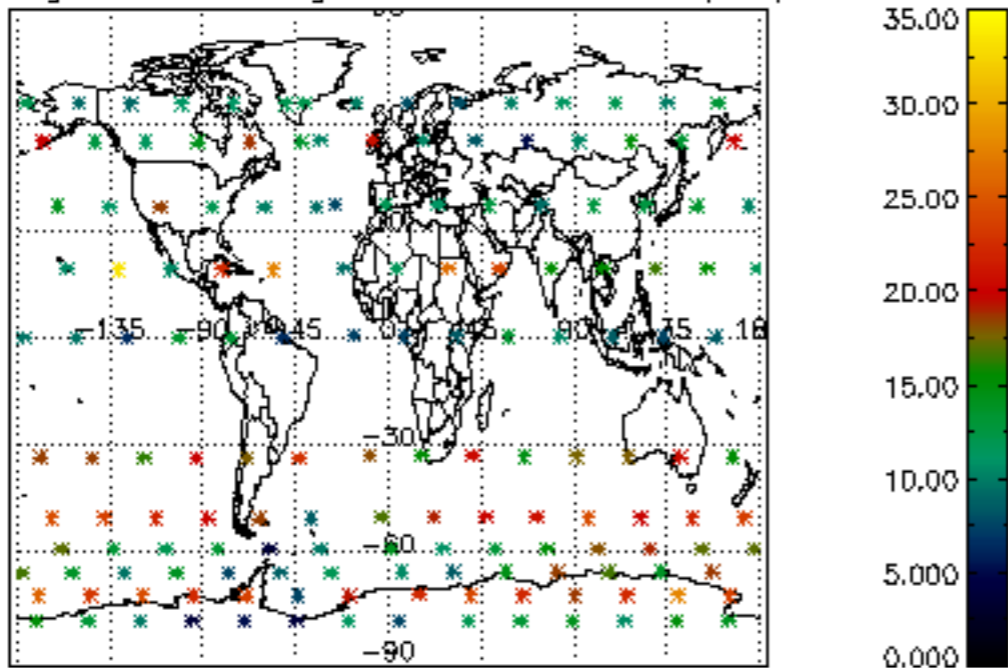
Percentage of cosmic ray hits per profile



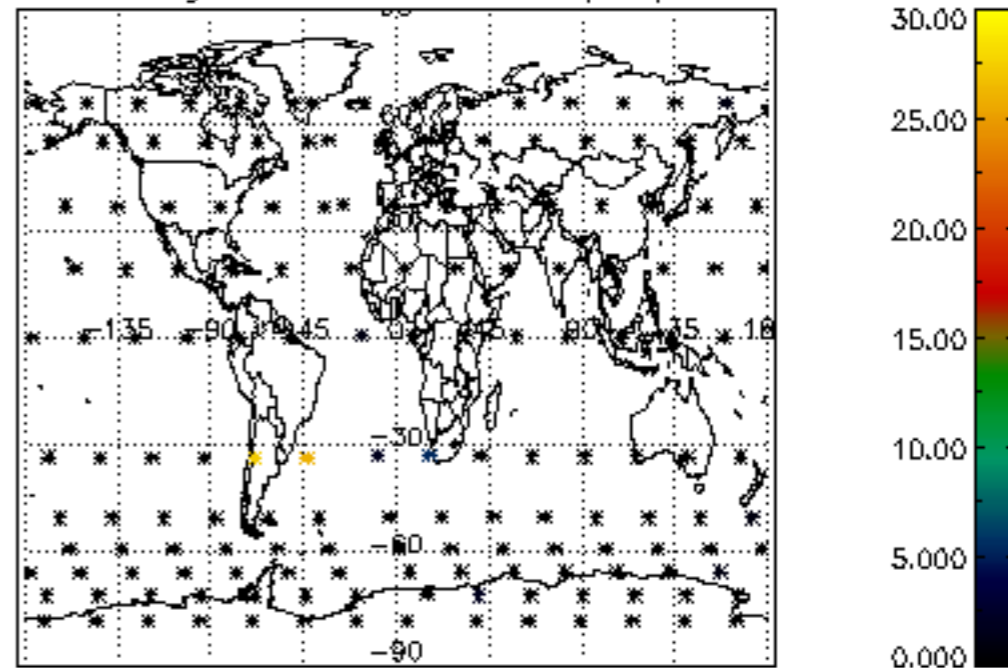
Percentage of datation errors per profile



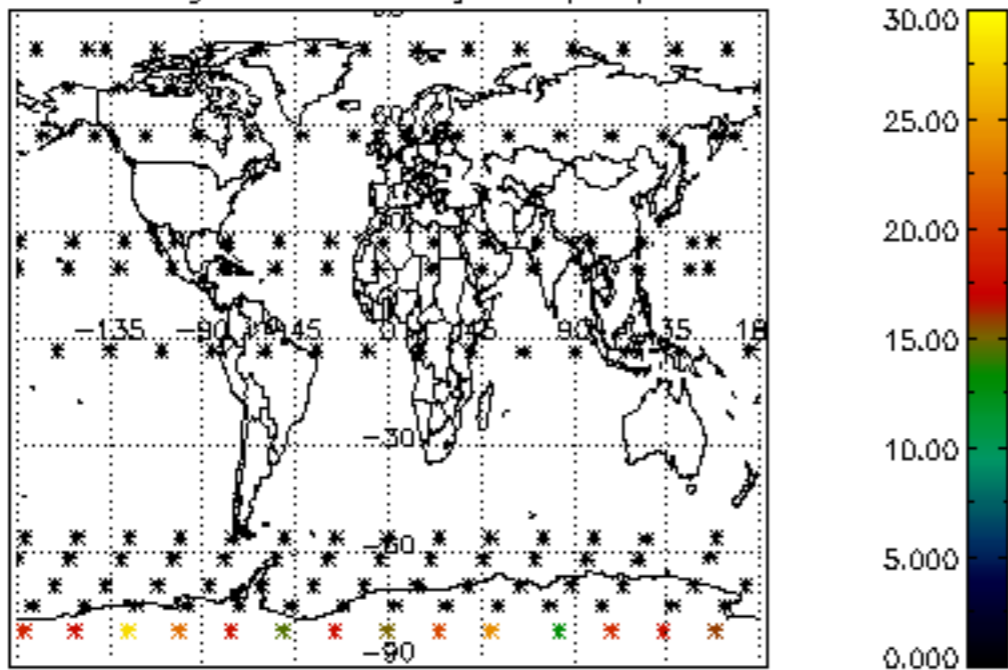
Percentage of star falling outside central band per profile



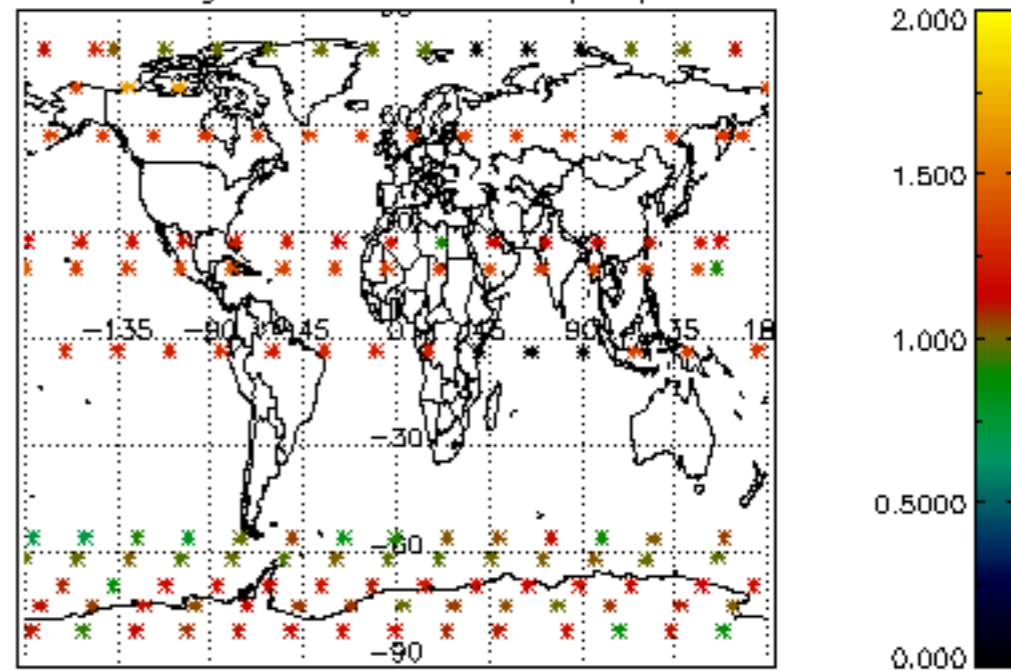
Percentage of saturation errors per profile



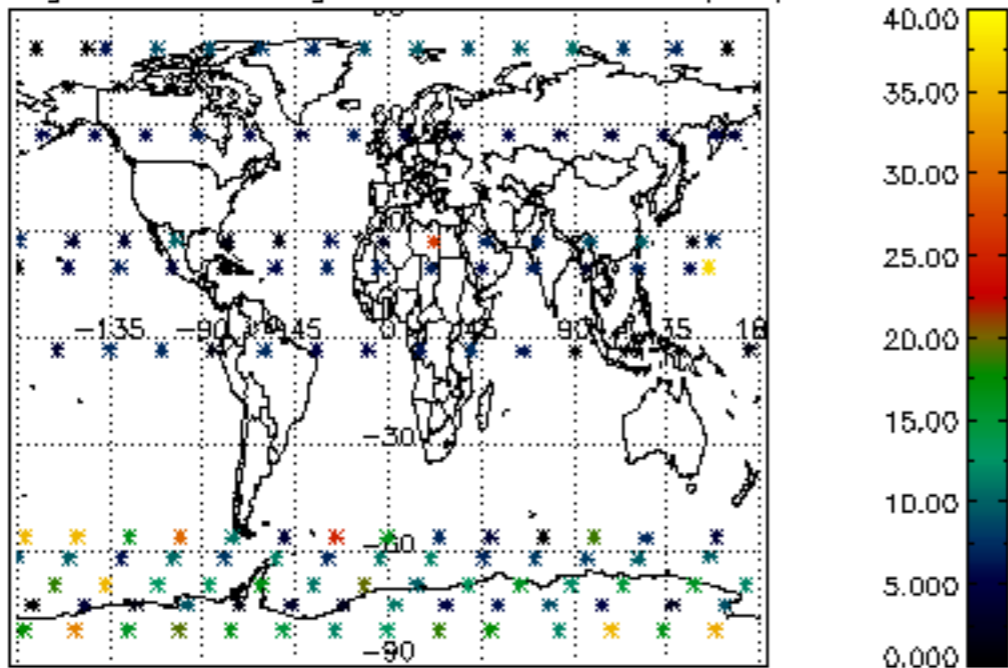
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

