

GOMOS Level 2 Daily Report

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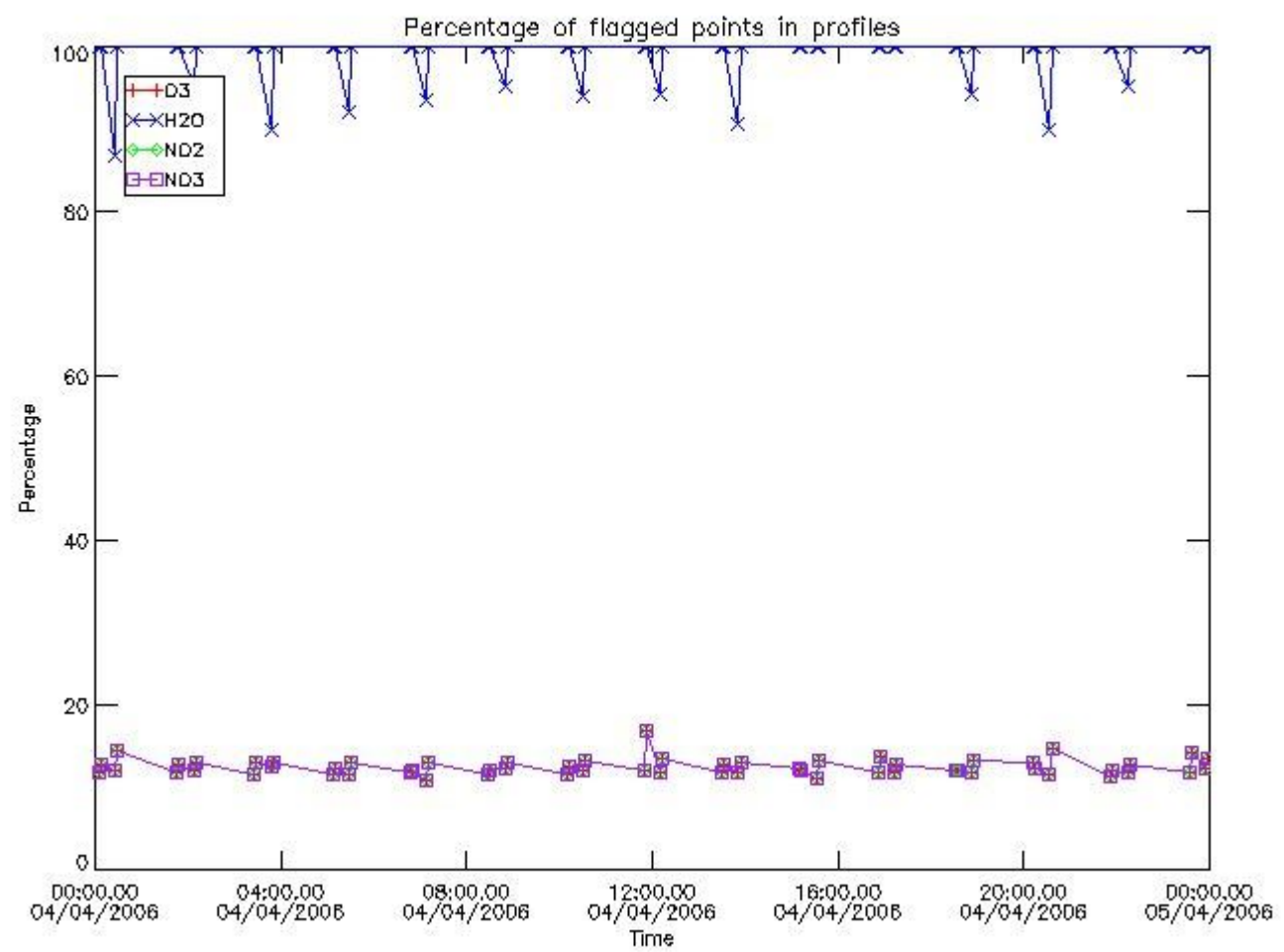
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279	GOM_NL__2PRFIN20060404_211646_000000372046_00315_21411_8853.N1	04-APR-2006 21:16:46	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	21411	No
280	GOM_NL__2PRFIN20060404_212251_000000372046_00315_21411_8854.N1	04-APR-2006 21:22:51	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	21411	No
281	GOM_NL__2PRFIN20060404_212451_000000352046_00315_21411_8855.N1	04-APR-2006 21:24:51	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	21411	No
282	GOM_NL__2PRFIN20060404_213228_000000382046_00315_21411_8856.N1	04-APR-2006 21:32:28	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	21411	No
283	GOM_NL__2PRFIN20060404_213741_000000612046_00315_21411_8857.N1	04-APR-2006 21:37:41	Bright	61.000	19	50Alp Cyg	1.2460	10500.	122	21411	No
284	GOM_NL__2PRFIN20060404_214812_000000442046_00315_21411_8858.N1	04-APR-2006 21:48:12	Twilight	43.500	61	8Eps Peg	2.1000	3900.0	87	21411	No
285	GOM_NL__2PRFIN20060404_215042_000000412046_00315_21411_8859.N1	04-APR-2006 21:50:42	Twilight	41.000	162	34Alp Aqr	2.9440	5350.0	82	21411	No
286	GOM_NL__2PRFIN20060404_215253_000000452046_00315_21411_8860.N1	04-APR-2006 21:52:53	Dark	45.000	154	22Bet Aqr	2.8990	5700.0	90	21411	No
287	GOM_NL__2PRFIN20060404_215525_000000422046_00315_21411_8861.N1	04-APR-2006 21:55:25	Dark	42.000	142	49Del Cap	2.8500	8900.0	84	21411	No
288	GOM_NL__2PRFIN20060404_221419_000000432046_00316_21412_8840.N1	04-APR-2006 22:14:19	Dark	43.000	141	Bet Ara	2.8400	4600.0	86	21412	No
289	GOM_NL__2PRFIN20060404_221710_000000402046_00316_21412_8841.N1	04-APR-2006 22:17:10	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	21412	No
290	GOM_NL__2PRFIN20060404_221945_000000532046_00316_21412_8842.N1	04-APR-2006 22:19:45	Straylight	52.500	4	Alp1Cen	-0.010000	5800.0	105	21412	No
291	GOM_NL__2PRFIN20060404_222238_000000432046_00316_21412_8843.N1	04-APR-2006 22:22:38	Straylight	43.000	78	Alp Lup	2.3040	28000.	86	21412	No
292	GOM_NL__2PRFIN20060404_222414_000000452046_00316_21412_8844.N1	04-APR-2006 22:24:14	Straylight	45.000	81	Eta Cen	2.3560	28000.	90	21412	No
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295	GOM_NL__2PRFIN20060404_223432_000000412046_00316_21412_8847.N1	04-APR-2006 22:34:32	Twilight	40.500	100	4Gam Crv	2.5800	13100.	81	21412	No
296	GOM_NL__2PRFIN20060404_223924_000000412046_00316_21412_8848.N1	04-APR-2006 22:39:24	Bright	40.500	121	29Gam Vir	2.7400	7200.0	81	21412	No
297	GOM_NL__2PRFIN20060404_224402_000000372046_00316_21412_8849.N1	04-APR-2006 22:44:02	Bright	37.000	62	94Bet Leo	2.1360	9700.0	74	21412	No
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299	GOM_NL__2PRFIN20060404_225230_000000362046_00316_21412_8851.N1	04-APR-2006 22:52:30	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	21412	No
300	GOM_NL__2PRFIN20060404_225523_000000362046_00316_21412_8852.N1	04-APR-2006 22:55:23	Bright	36.000	87	64Gam UMa	2.4330	11000.	72	21412	No
301	GOM_NL__2PRFIN20060404_225721_000000372046_00316_21412_8853.N1	04-APR-2006 22:57:21	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	21412	No
302	GOM_NL__2PRFIN20060404_230326_000000402046_00316_21412_8854.N1	04-APR-2006 23:03:26	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	21412	No
303	GOM_NL__2PRFIN20060404_230527_000000352046_00316_21412_8855.N1	04-APR-2006 23:05:27	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	21412	No
304	GOM_NL__2PRFIN20060404_231304_000000402046_00316_21412_8856.N1	04-APR-2006 23:13:04	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	21412	No
305	GOM_NL__2PRFIN20060404_231817_000000442046_00316_21412_8857.N1	04-APR-2006 23:18:17	Bright	43.500	19	50Alp Cyg	1.2460	10500.	87	21412	No
306	GOM_NL__2PRFIN20060404_232848_000000462046_00316_21412_8858.N1	04-APR-2006 23:28:48	Twilight	45.500	61	8Eps Peg	2.1000	3900.0	91	21412	No
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309	GOM_NL__2PRFIN20060404_233601_000000392046_00316_21412_8861.N1	04-APR-2006 23:36:01	Dark	39.000	142	49Del Cap	2.8500	8900.0	78	21412	No
310	GOM_NL__2PRFIN20060404_235456_000000422046_00317_21413_8840.N1	04-APR-2006 23:54:56	Dark	41.500	141	Bet Ara	2.8400	4600.0	83	21413	No
311	GOM_NL__2PRFIN20060404_235746_000000382046_00317_21413_8841.N1	04-APR-2006 23:57:46	Dark	37.500	134	Bet TrA	2.8100	6600.0	75	21413	No

3. Quality information per product

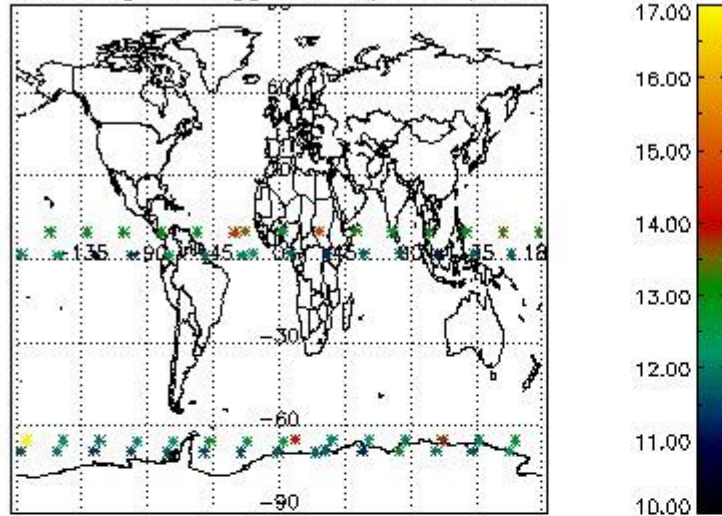
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

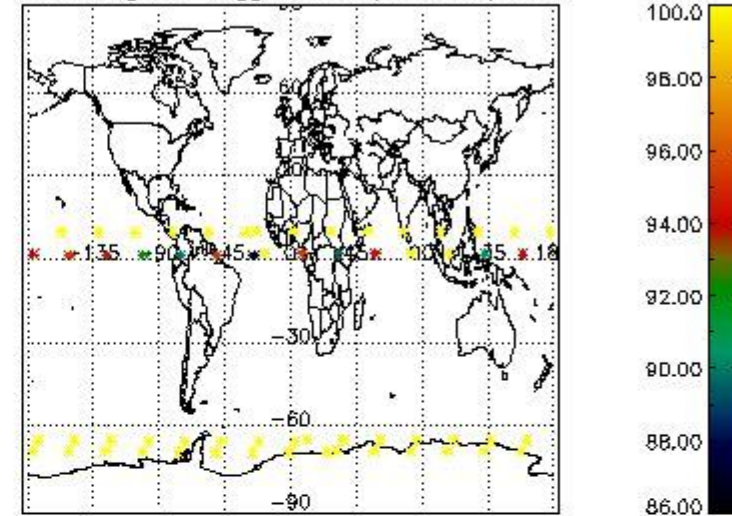


3.2 Plot quality information per product (world map)

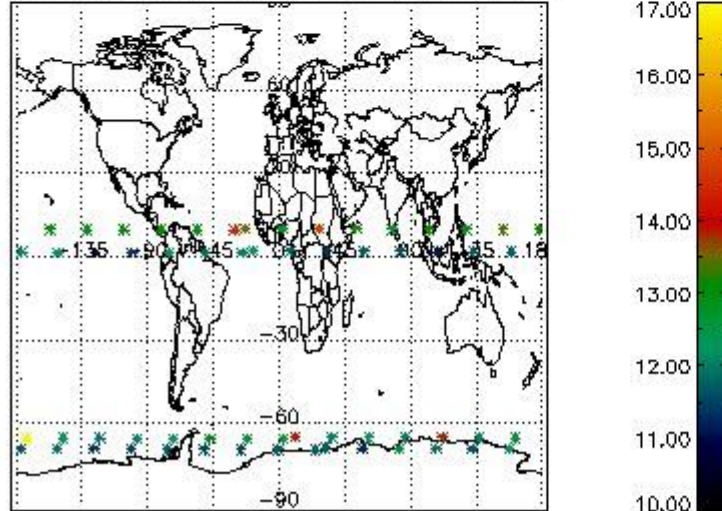
Percentage of flagged data per O3 profile



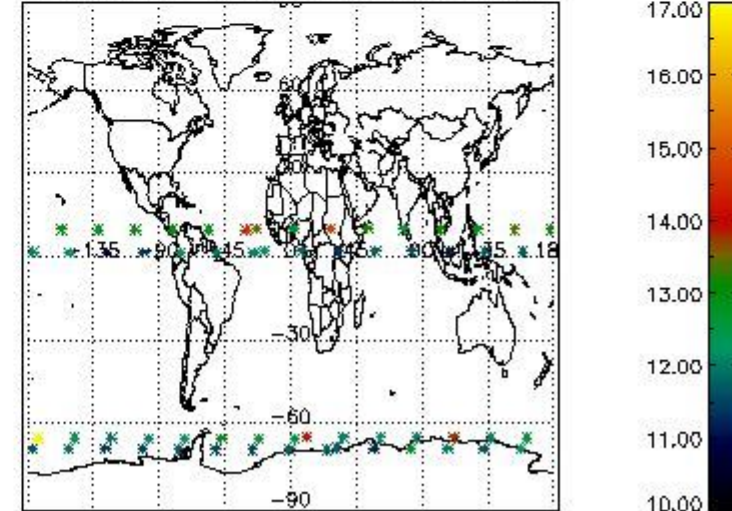
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

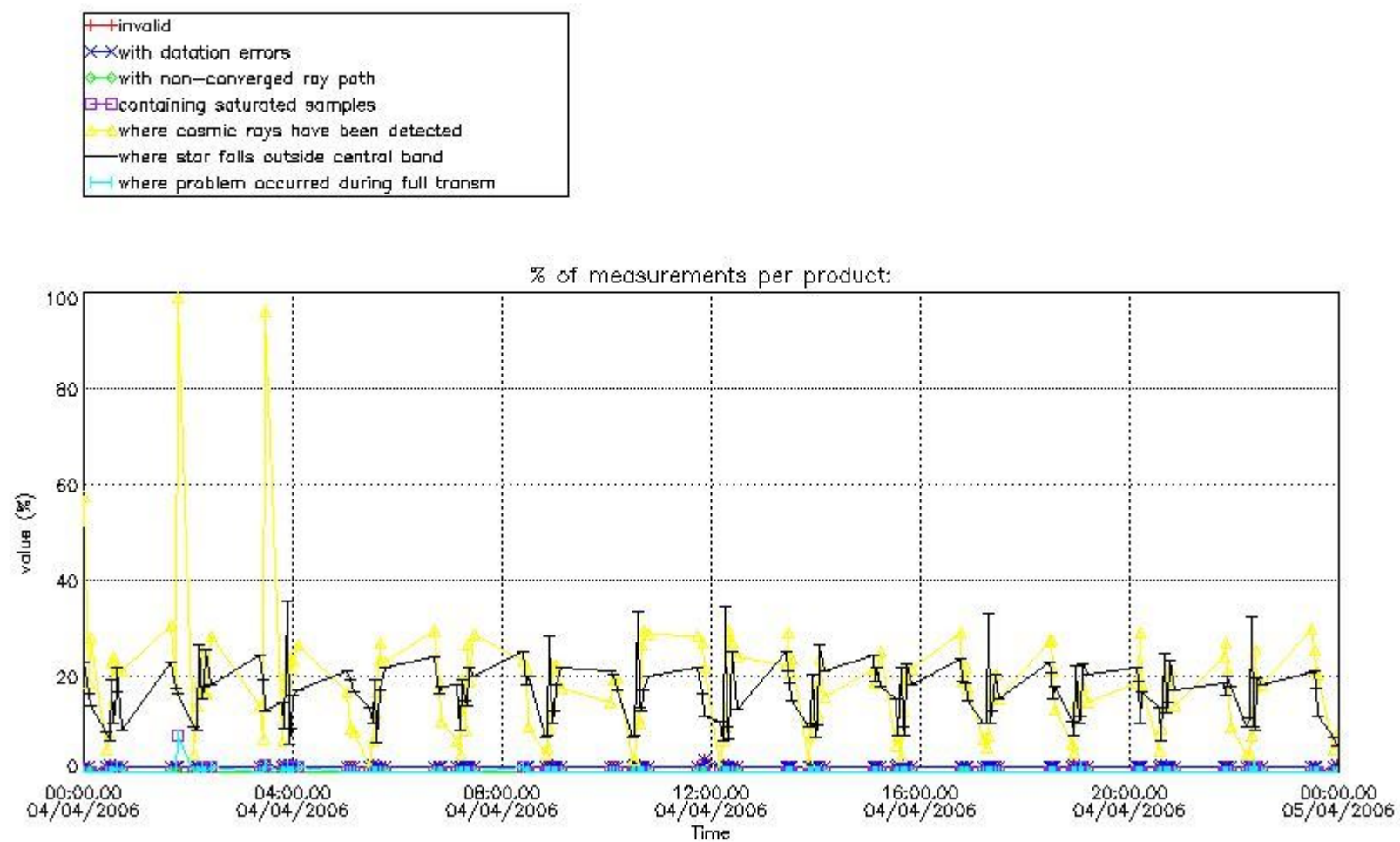


4. Level 1 quality information per product

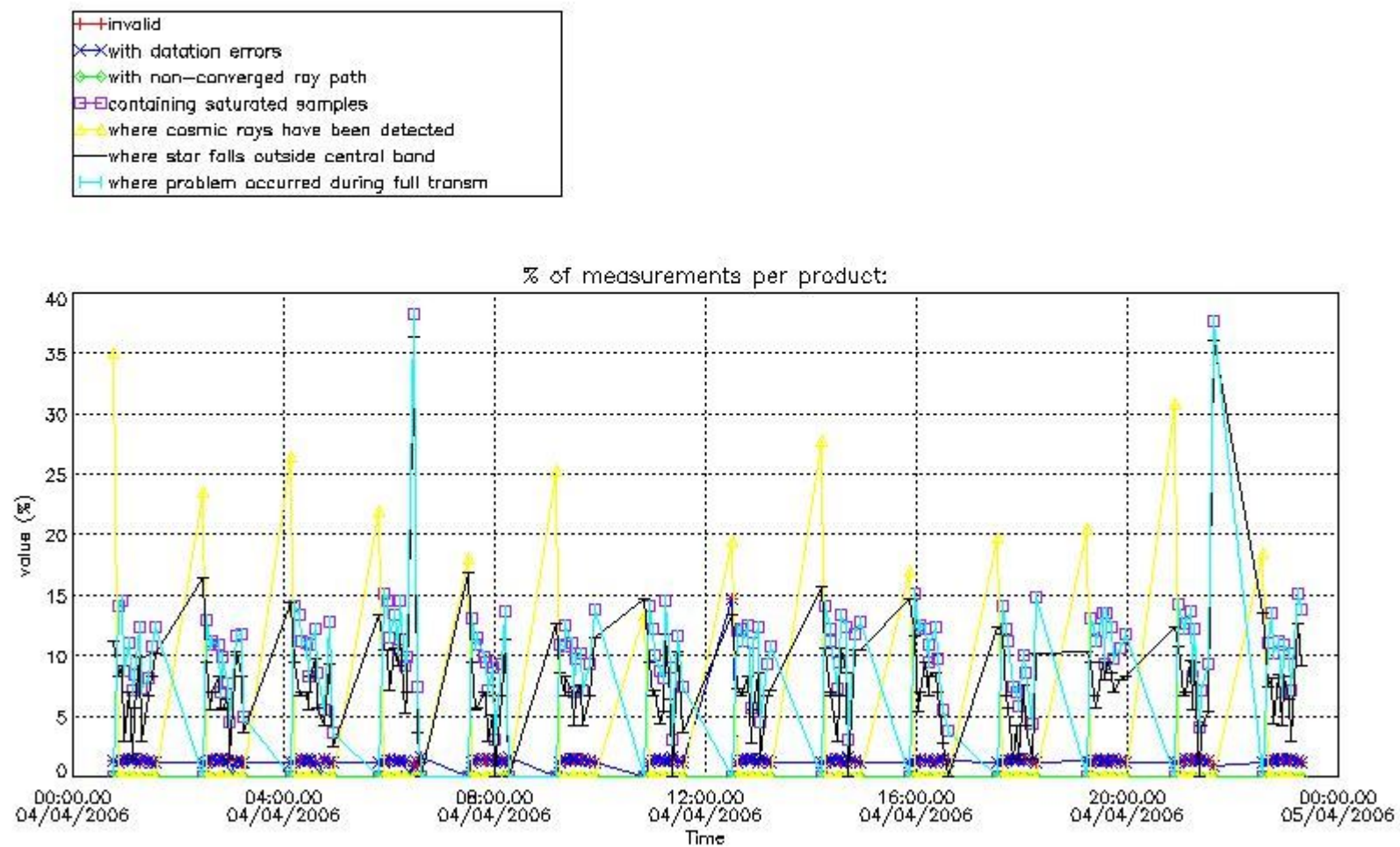
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

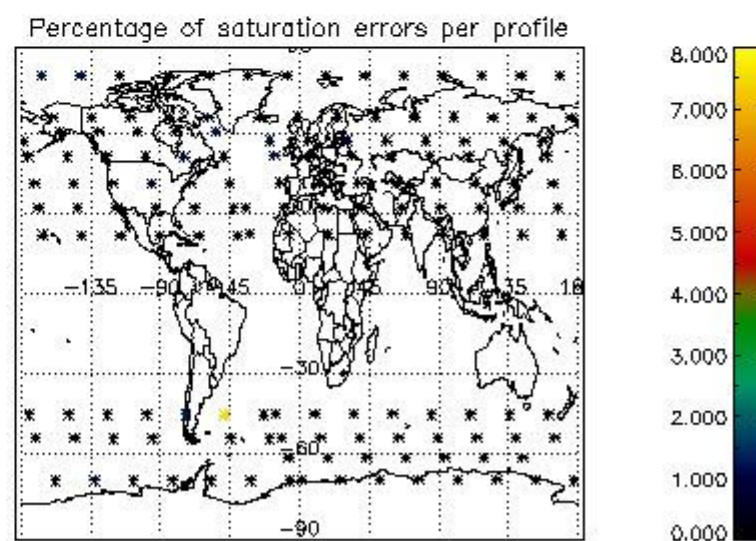
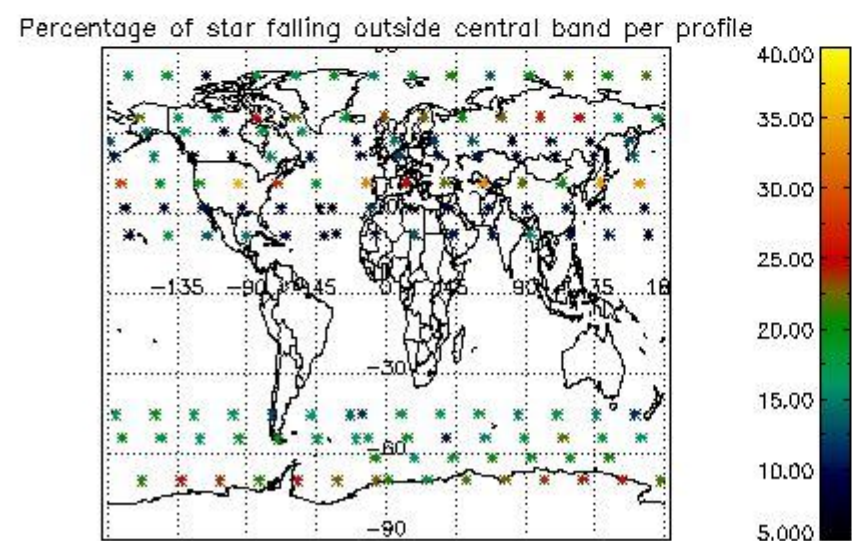
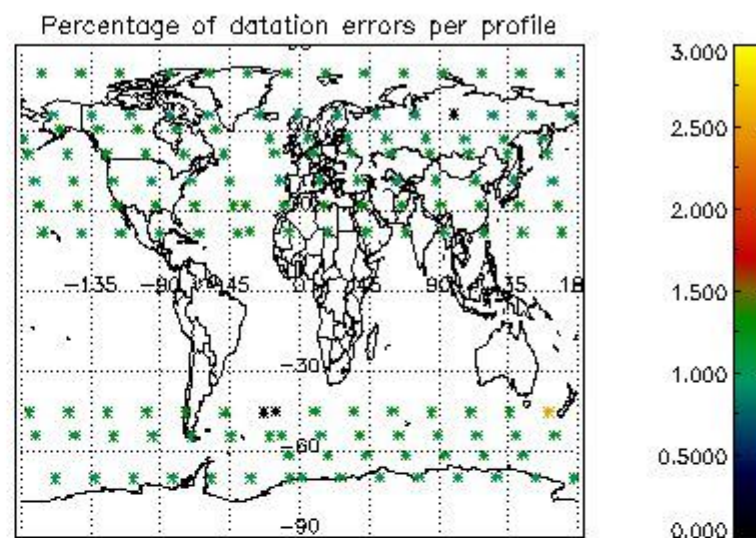
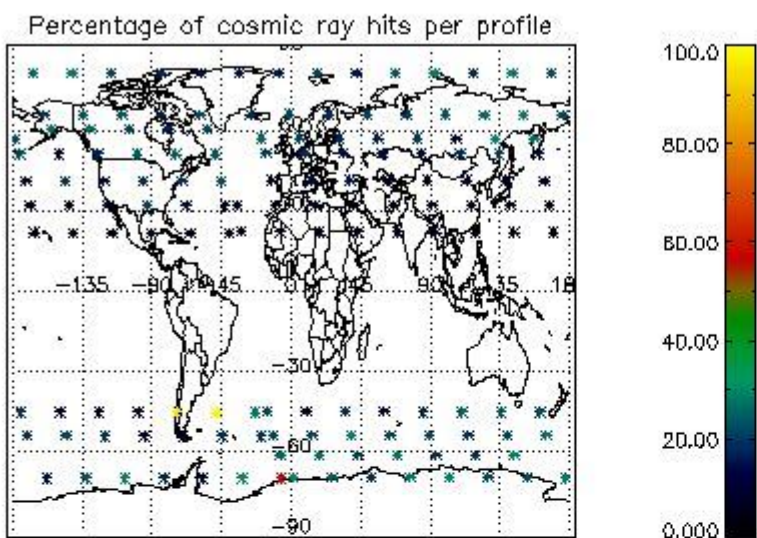


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

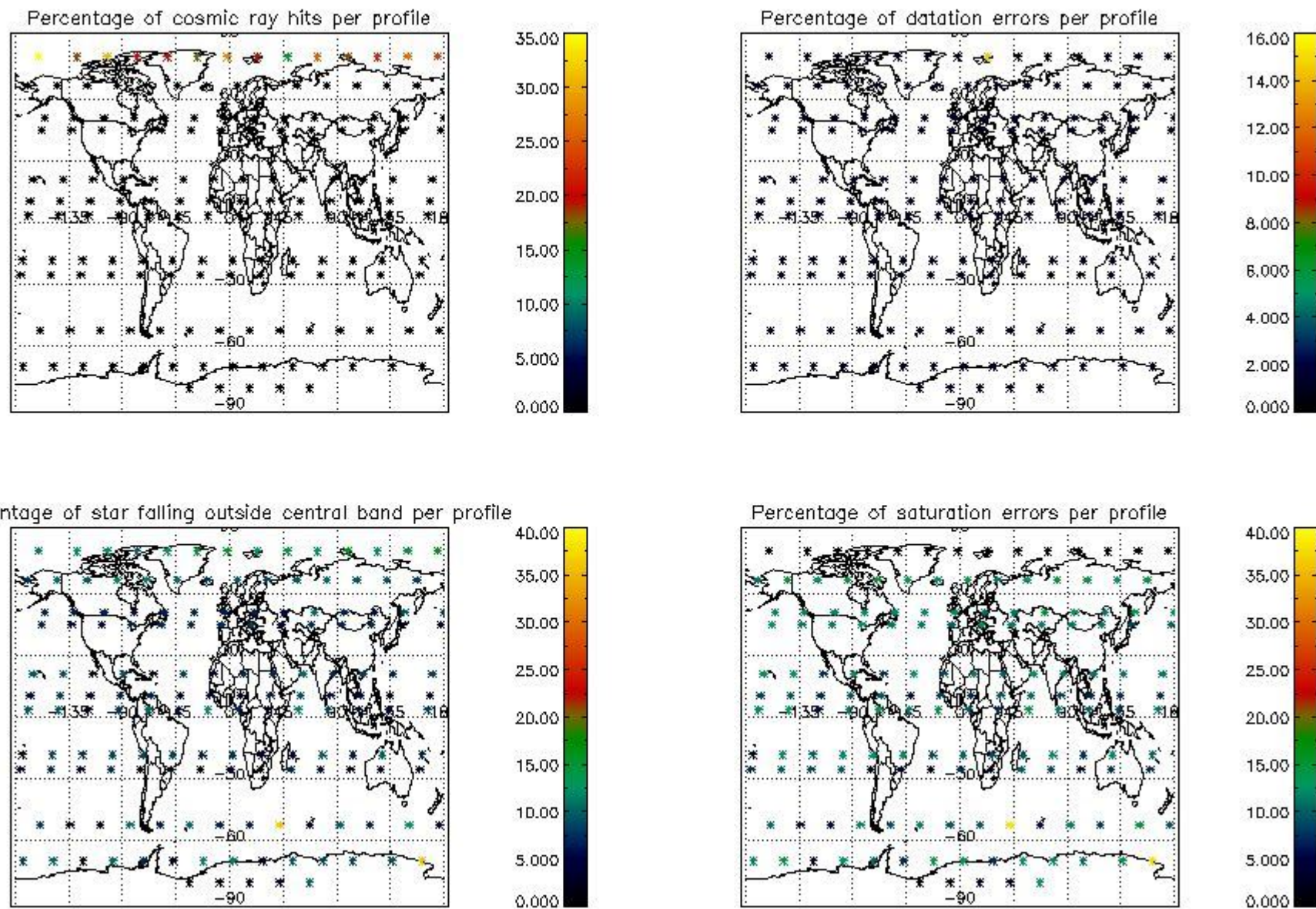


4.2 Plot quality information per product coming from level 1b processing (world map)

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

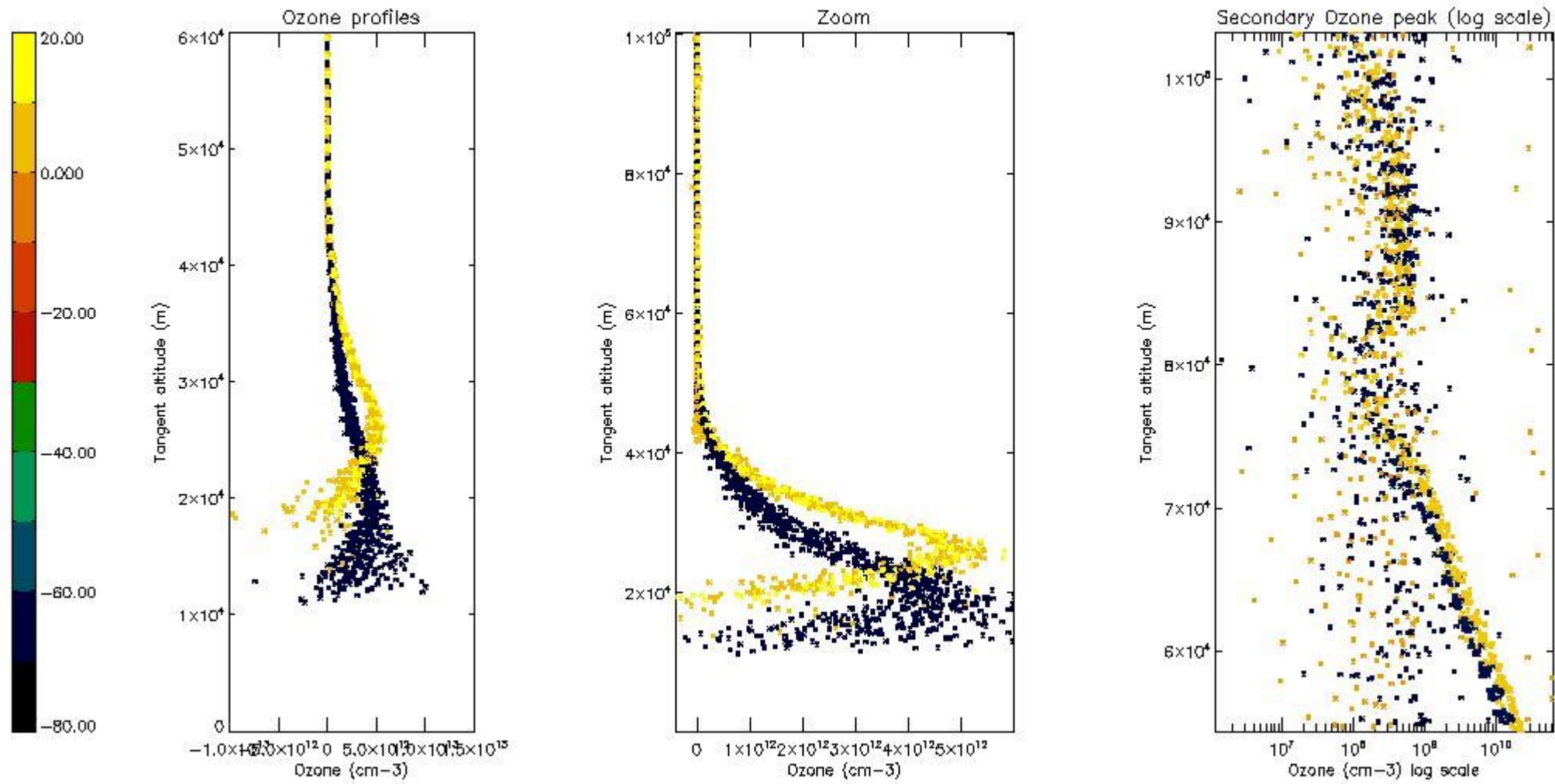
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	20.000
STD < 20	7.0000

STD < 10	4.0000
STD < 5	NaN

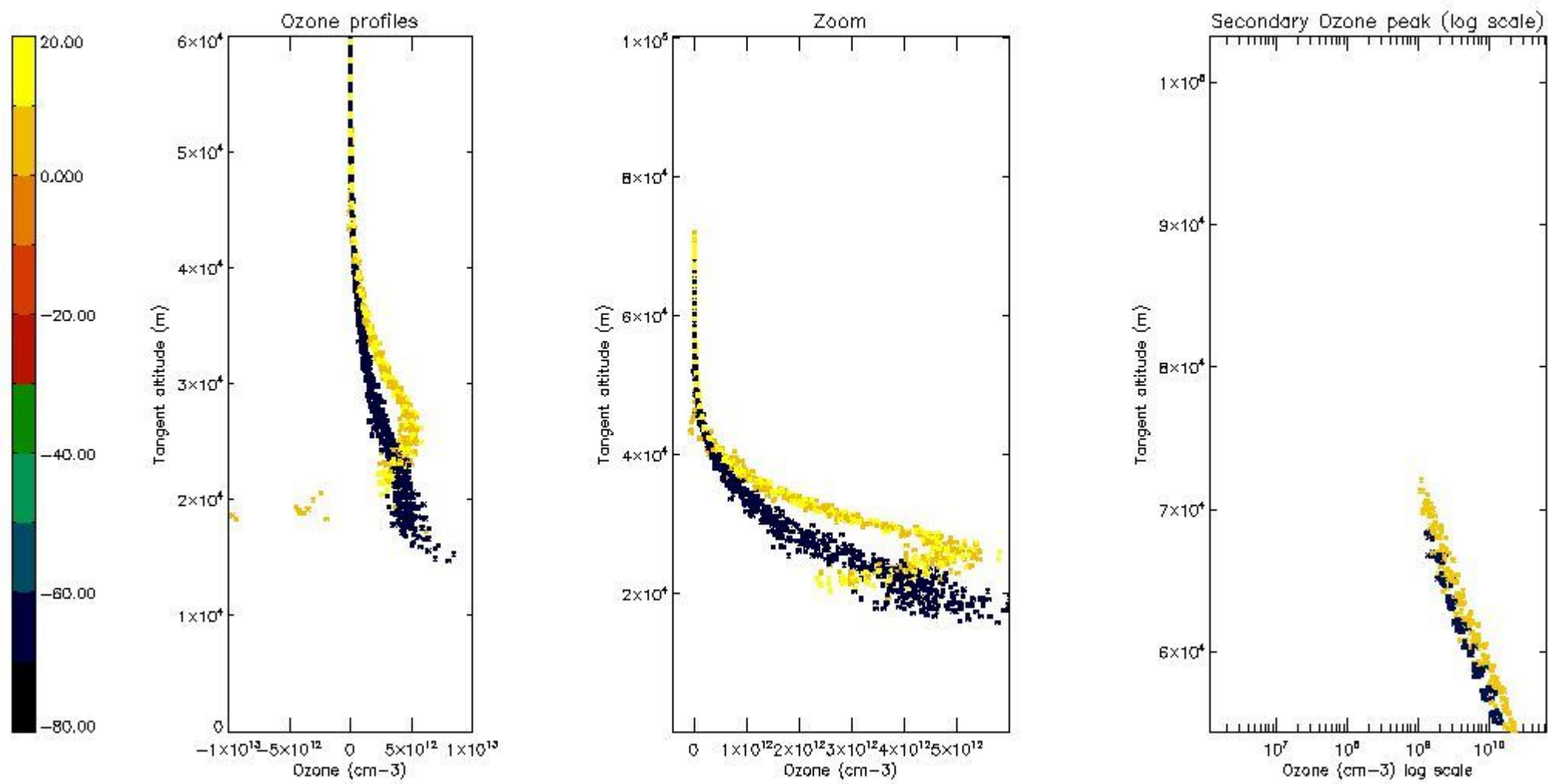
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



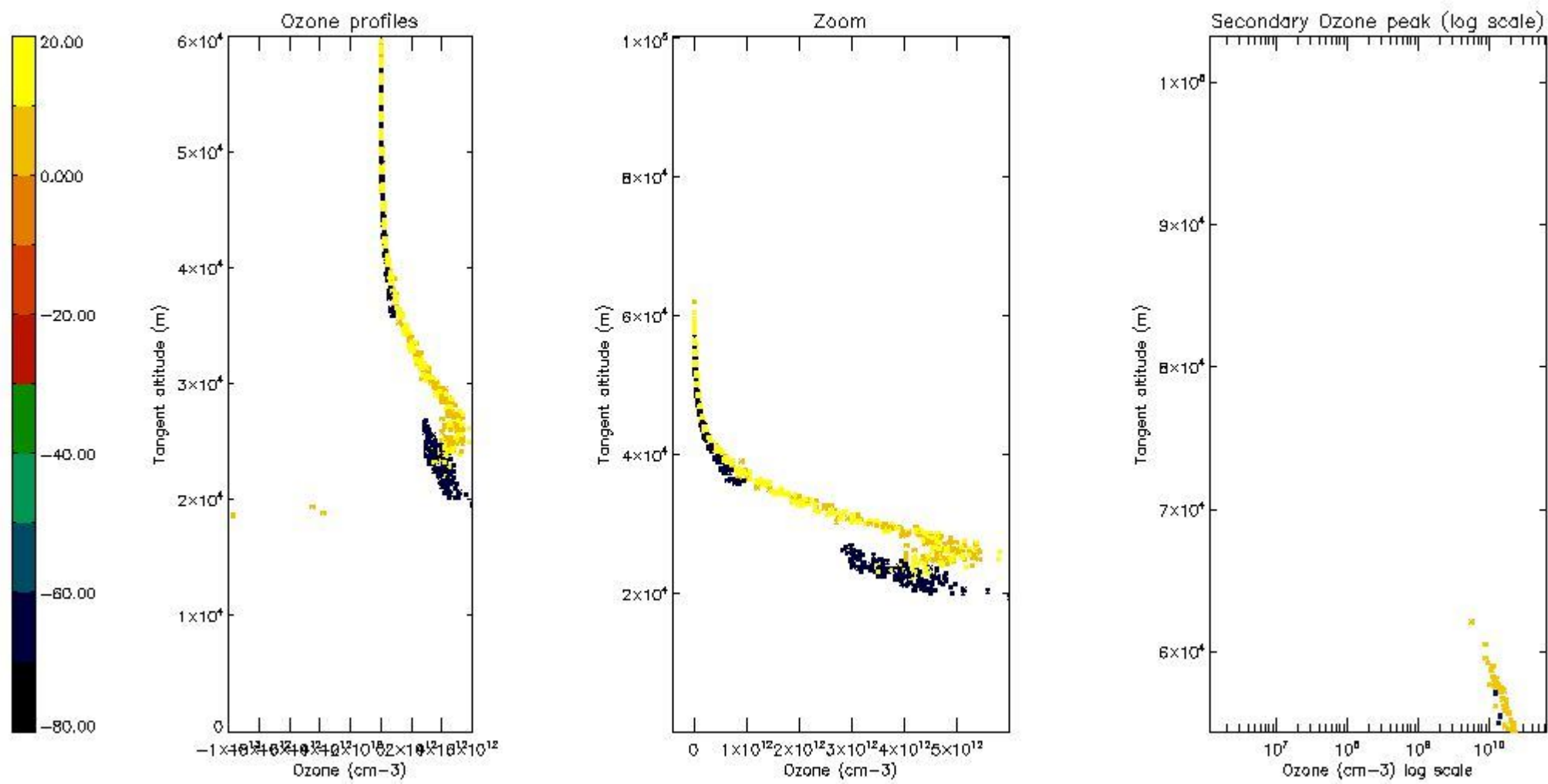
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.

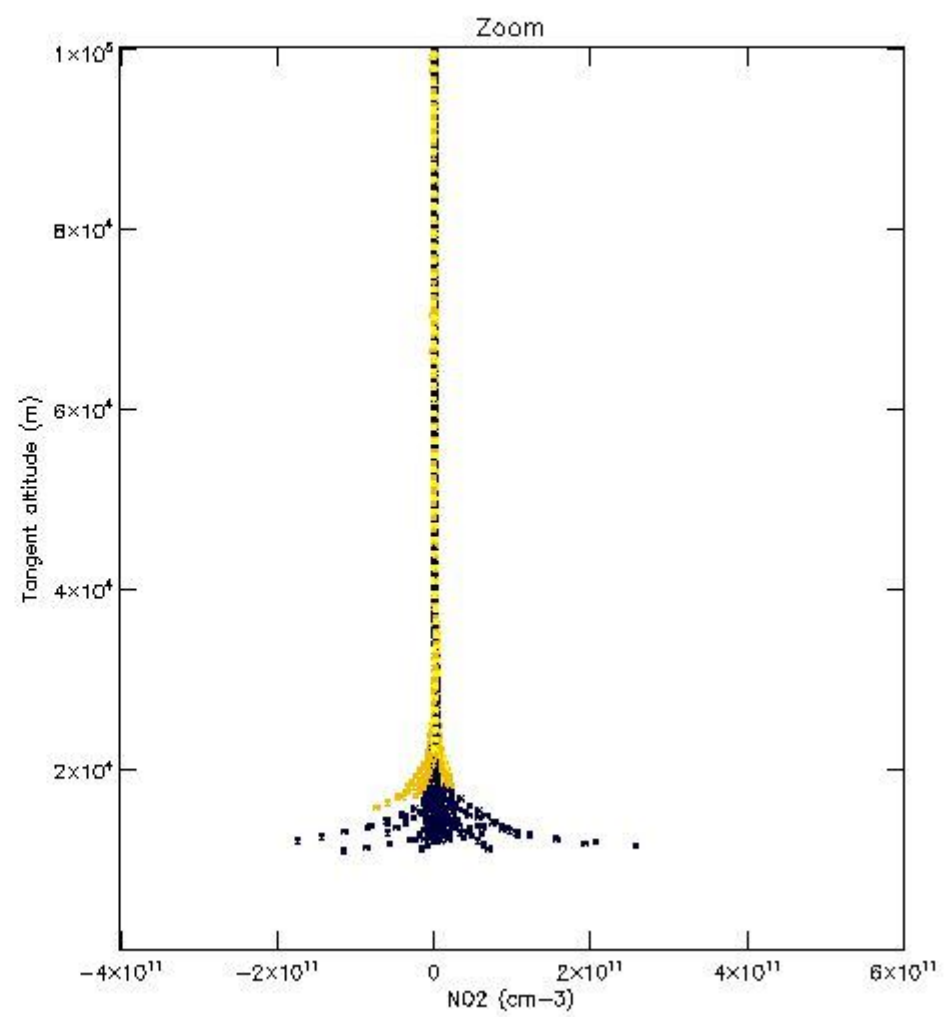
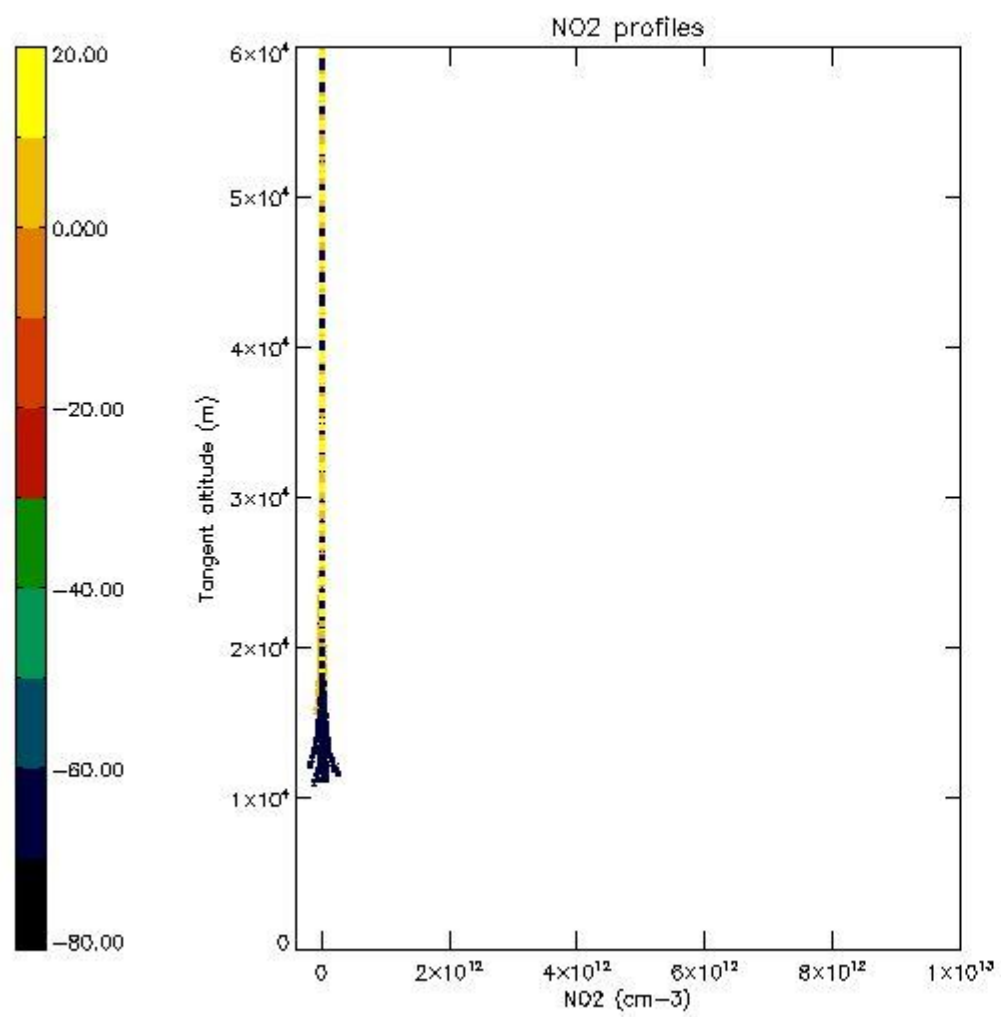


5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.

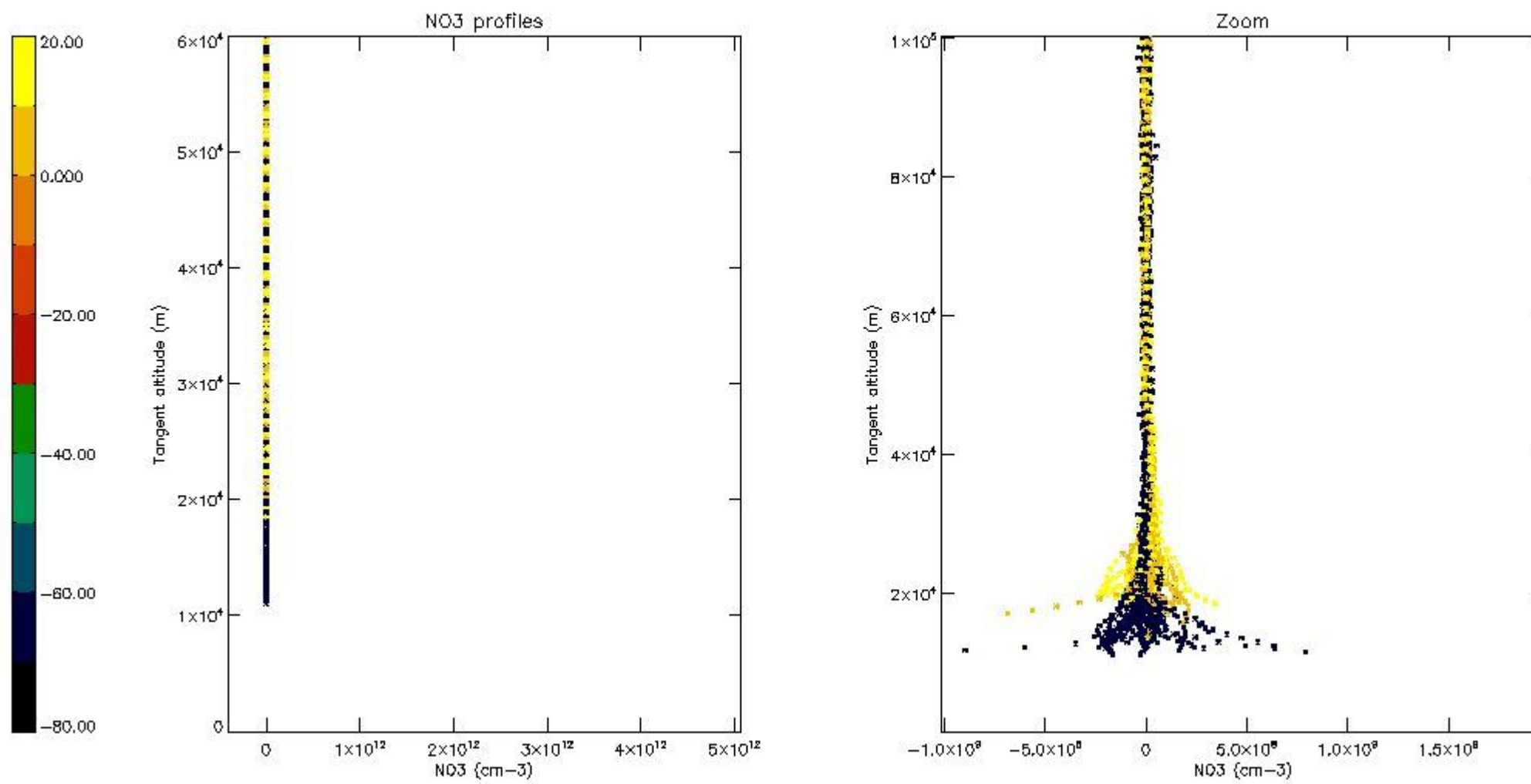
5.6 Plot NO2 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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-APR-2006 00:00:21
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-APR-2006 00:00:21
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-APR-2006 00:00:21

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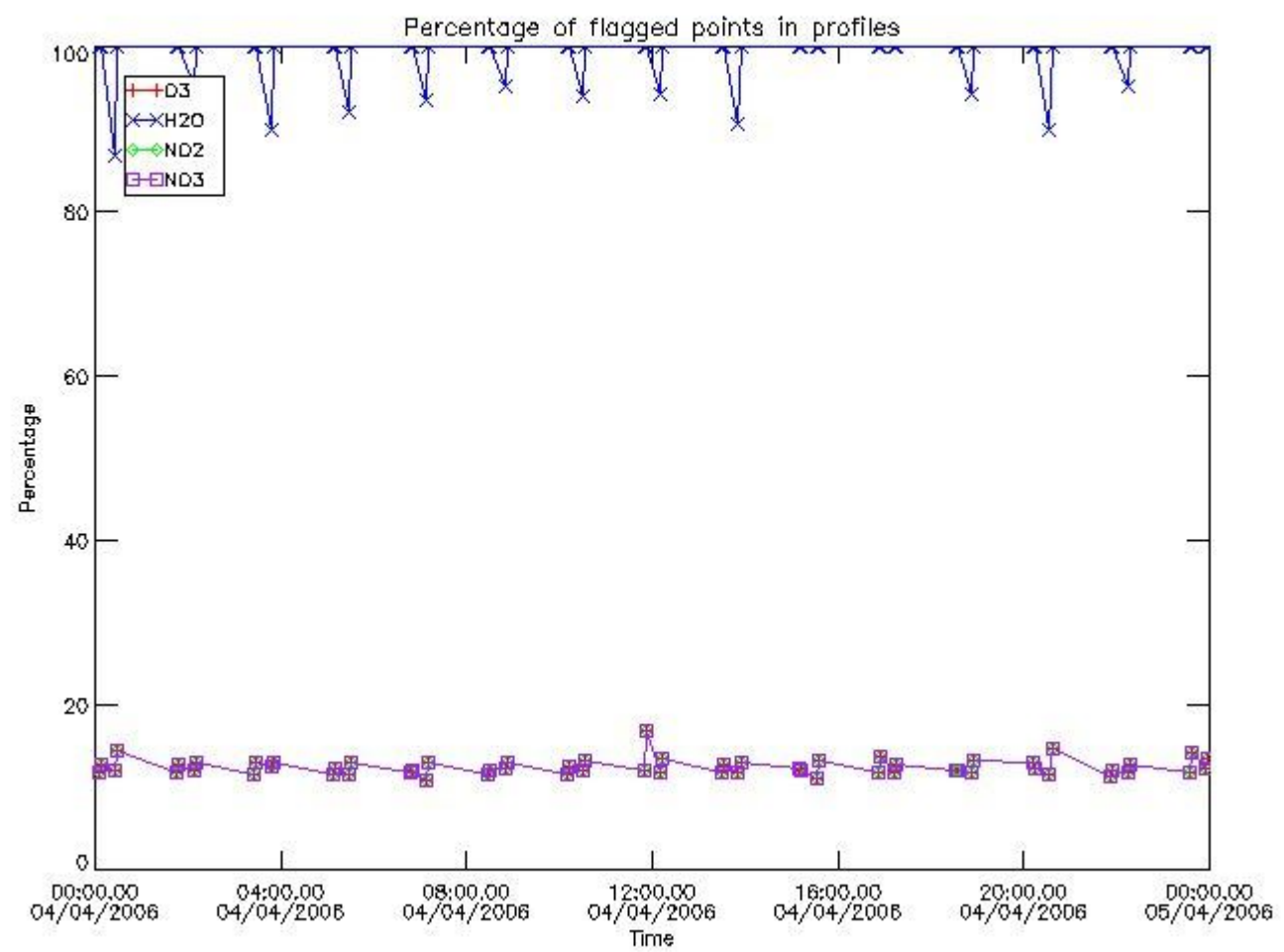
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301	GOM_NL__2PRFIN20060404_225721_000000372046_00316_21412_8853.N1	04-APR-2006 22:57:21	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	21412	No
302	GOM_NL__2PRFIN20060404_230326_000000402046_00316_21412_8854.N1	04-APR-2006 23:03:26	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	21412	No
303	GOM_NL__2PRFIN20060404_230527_000000352046_00316_21412_8855.N1	04-APR-2006 23:05:27	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	21412	No
304	GOM_NL__2PRFIN20060404_231304_000000402046_00316_21412_8856.N1	04-APR-2006 23:13:04	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	21412	No
305	GOM_NL__2PRFIN20060404_231817_000000442046_00316_21412_8857.N1	04-APR-2006 23:18:17	Bright	43.500	19	50Alp Cyg	1.2460	10500.	87	21412	No
306	GOM_NL__2PRFIN20060404_232848_000000462046_00316_21412_8858.N1	04-APR-2006 23:28:48	Twilight	45.500	61	8Eps Peg	2.1000	3900.0	91	21412	No
307	GOM_NL__2PRFIN20060404_233118_000000432046_00316_21412_8859.N1	04-APR-2006 23:31:18	Twilight	43.000	162	34Alp Aqr	2.9440	5350.0	86	21412	No
308	GOM_NL__2PRFIN20060404_233330_000000432046_00316_21412_8860.N1	04-APR-2006 23:33:30	Dark	43.000	154	22Bet Aqr	2.8990	5700.0	86	21412	No
309	GOM_NL__2PRFIN20060404_233601_000000392046_00316_21412_8861.N1	04-APR-2006 23:36:01	Dark	39.000	142	49Del Cap	2.8500	8900.0	78	21412	No
310	GOM_NL__2PRFIN20060404_235456_000000422046_00317_21413_8840.N1	04-APR-2006 23:54:56	Dark	41.500	141	Bet Ara	2.8400	4600.0	83	21413	No
311	GOM_NL__2PRFIN20060404_235746_000000382046_00317_21413_8841.N1	04-APR-2006 23:57:46	Dark	37.500	134	Bet TrA	2.8100	6600.0	75	21413	No

3. Quality information per product

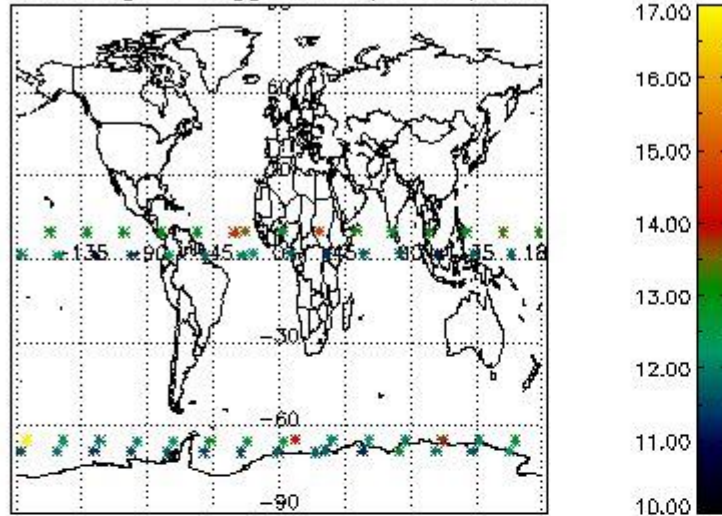
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

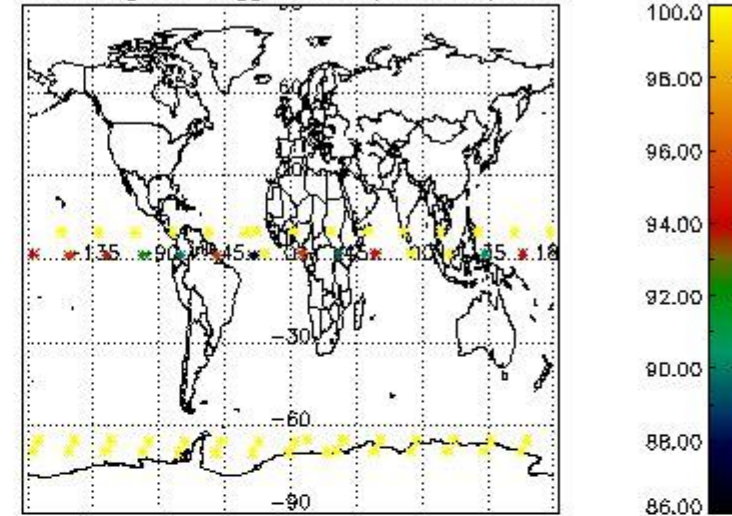


3.2 Plot quality information per product (world map)

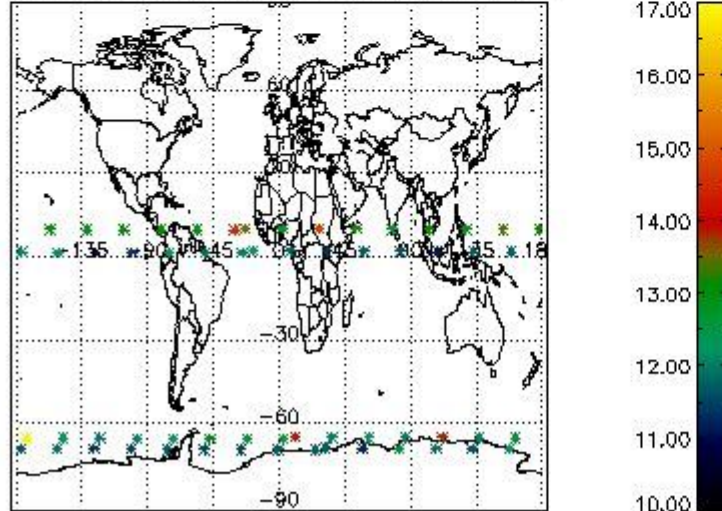
Percentage of flagged data per O3 profile



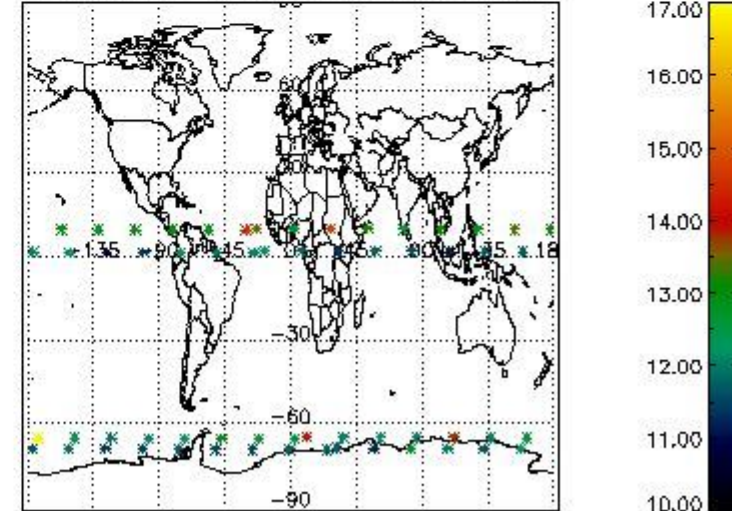
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

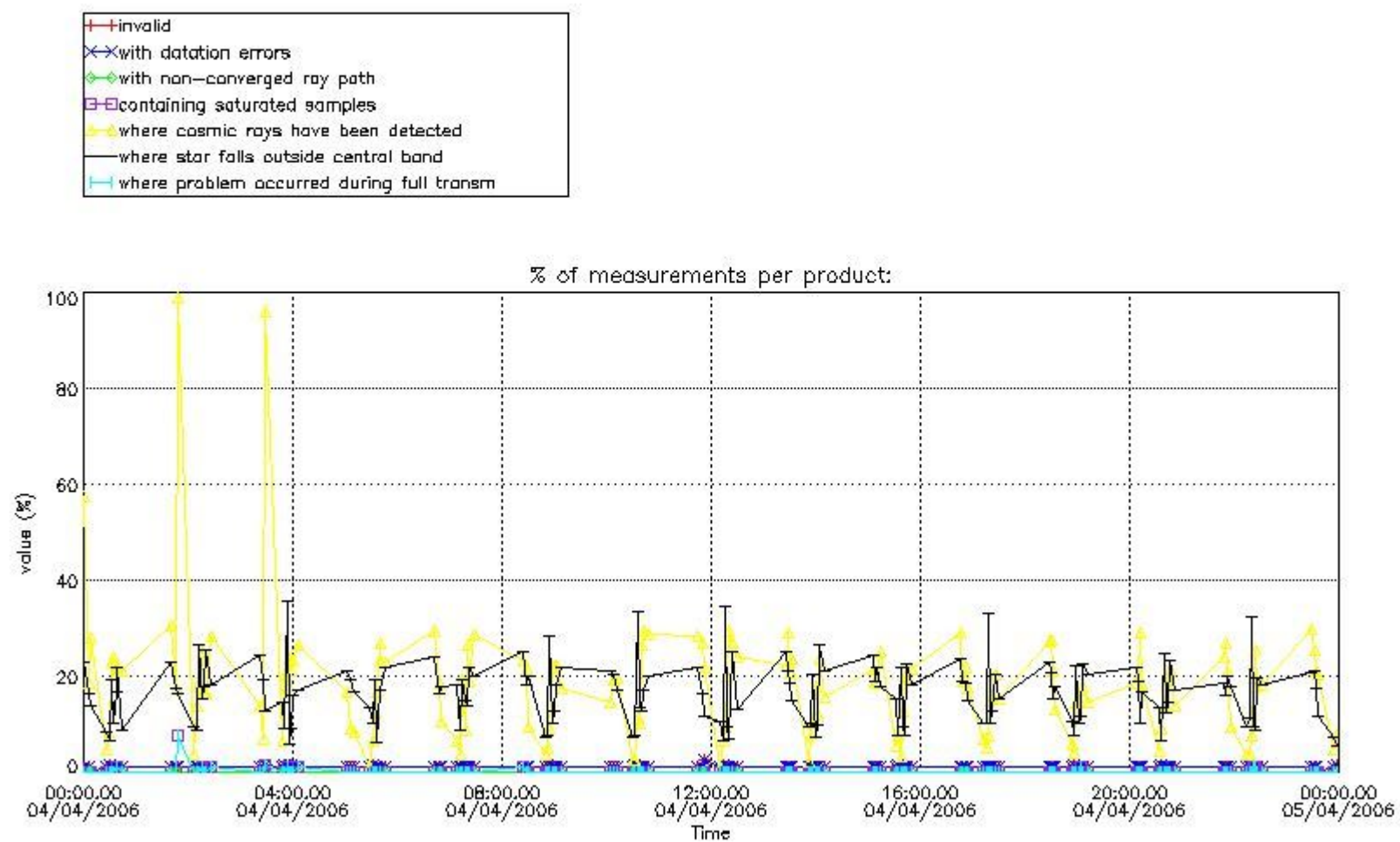


4. Level 1 quality information per product

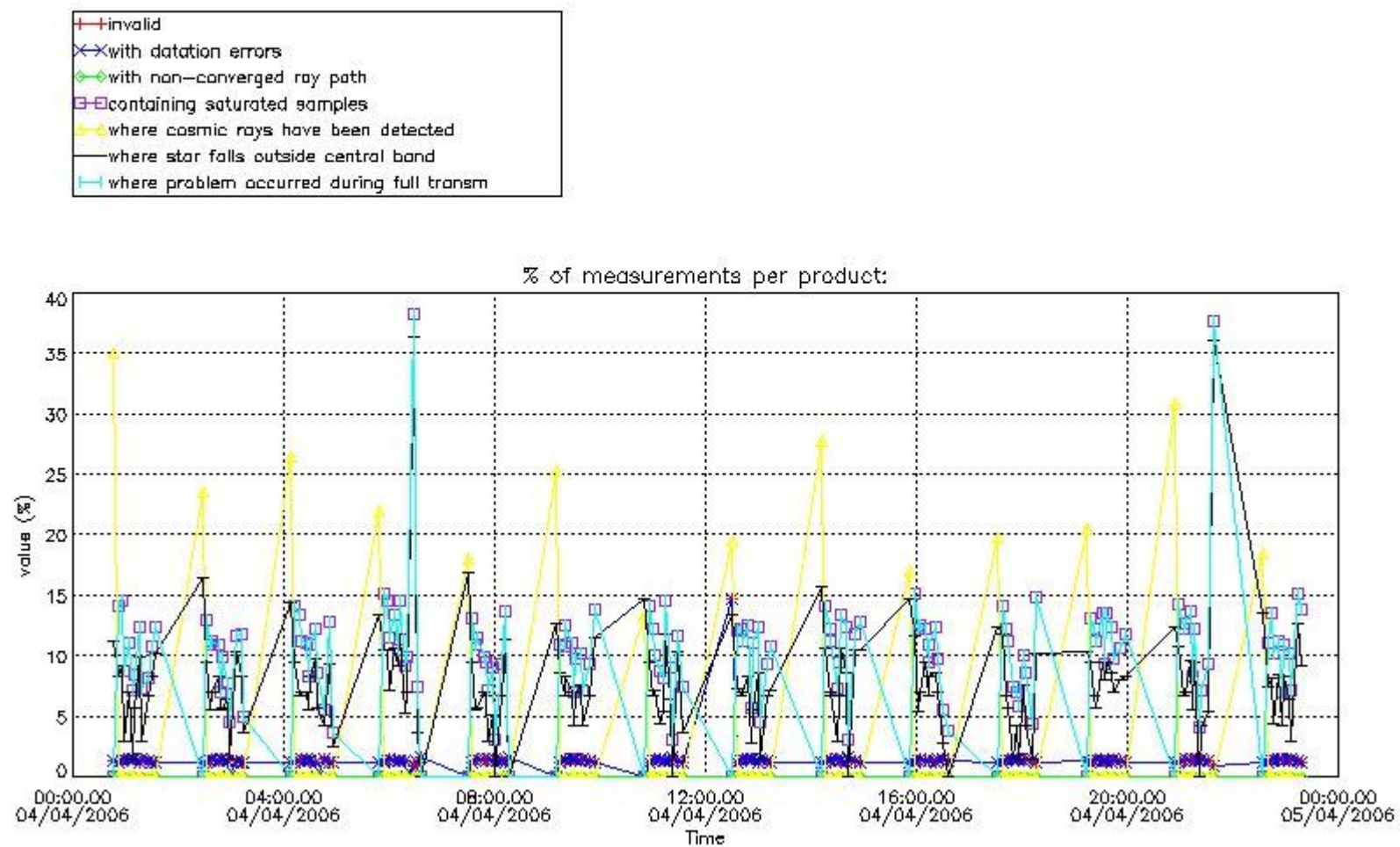
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



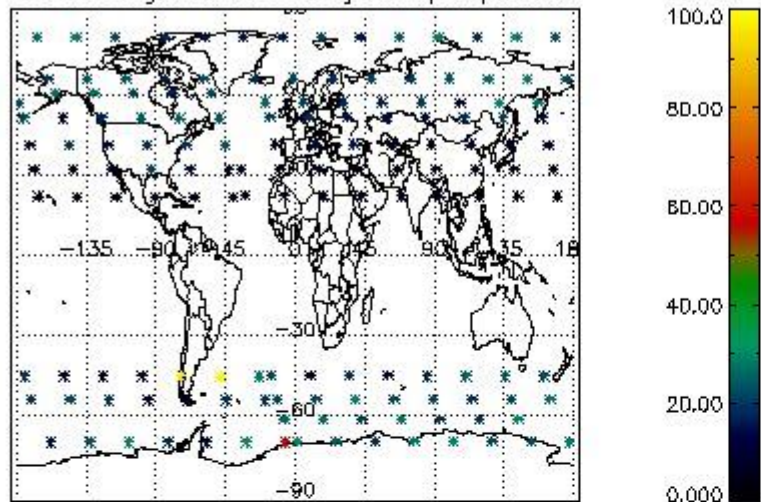
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



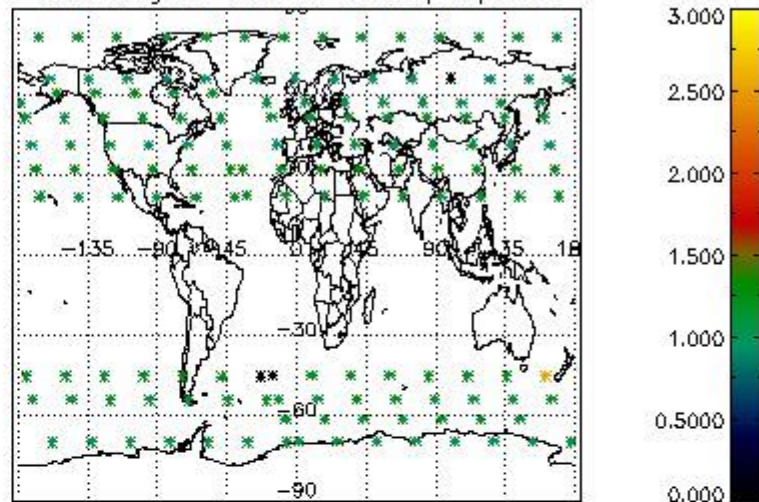
4.2 Plot quality information per product coming from level 1b processing (world map)

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

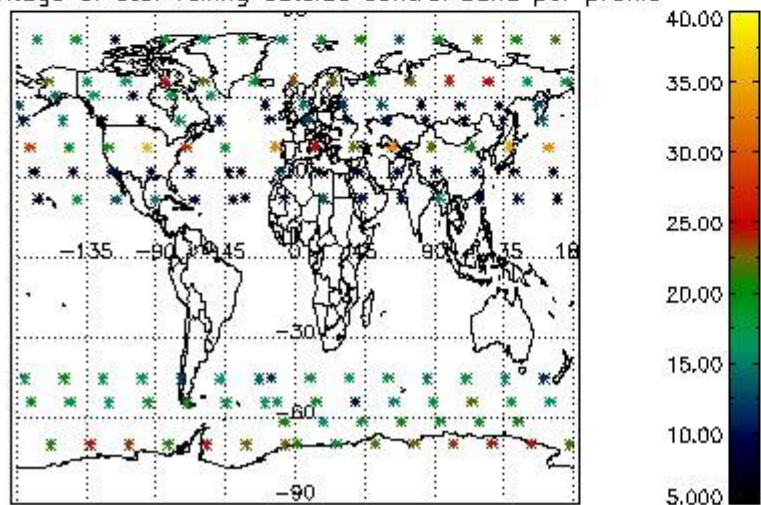
Percentage of cosmic ray hits per profile



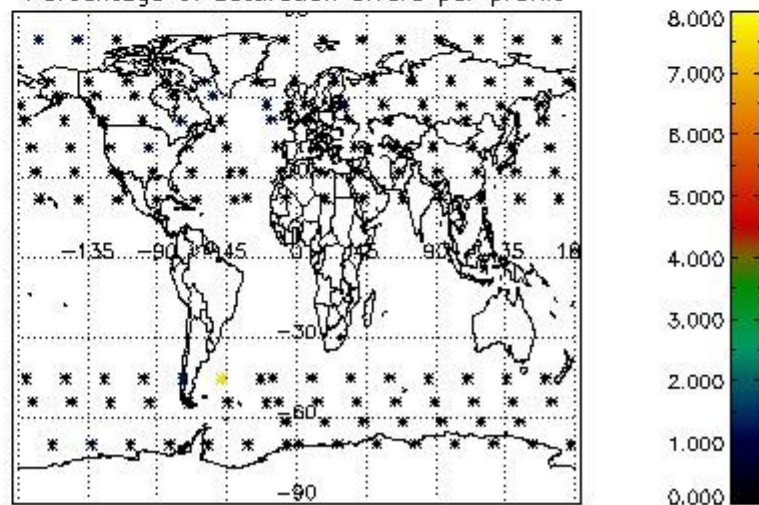
Percentage of datation errors per profile



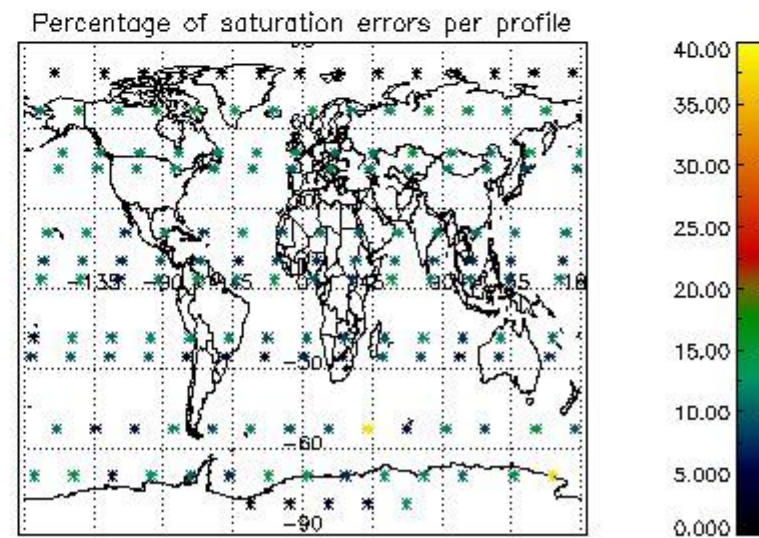
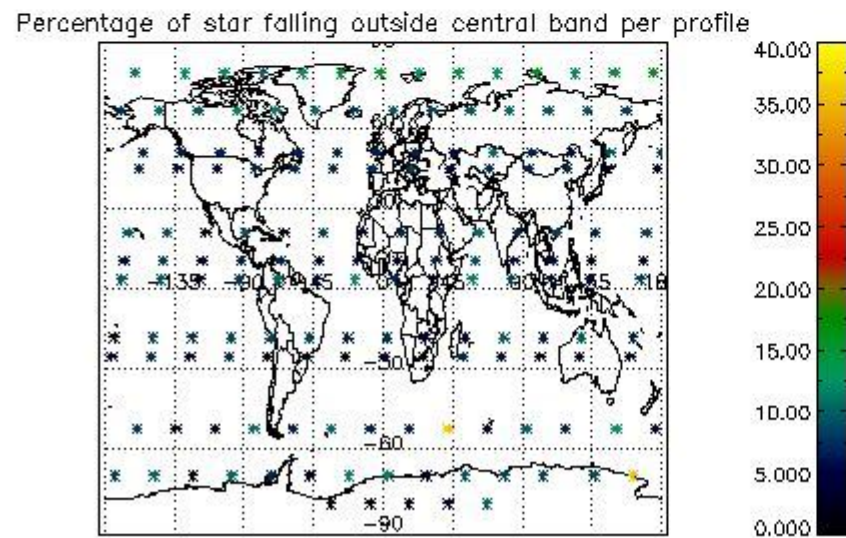
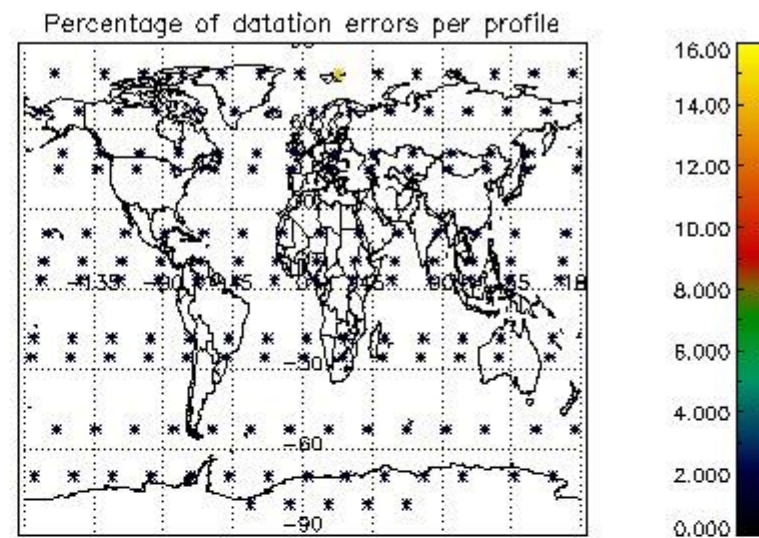
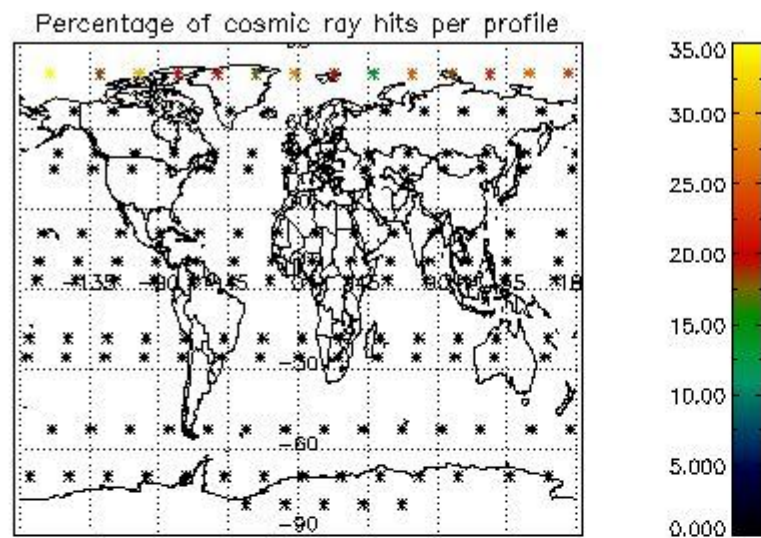
Percentage of star falling outside central band per profile



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

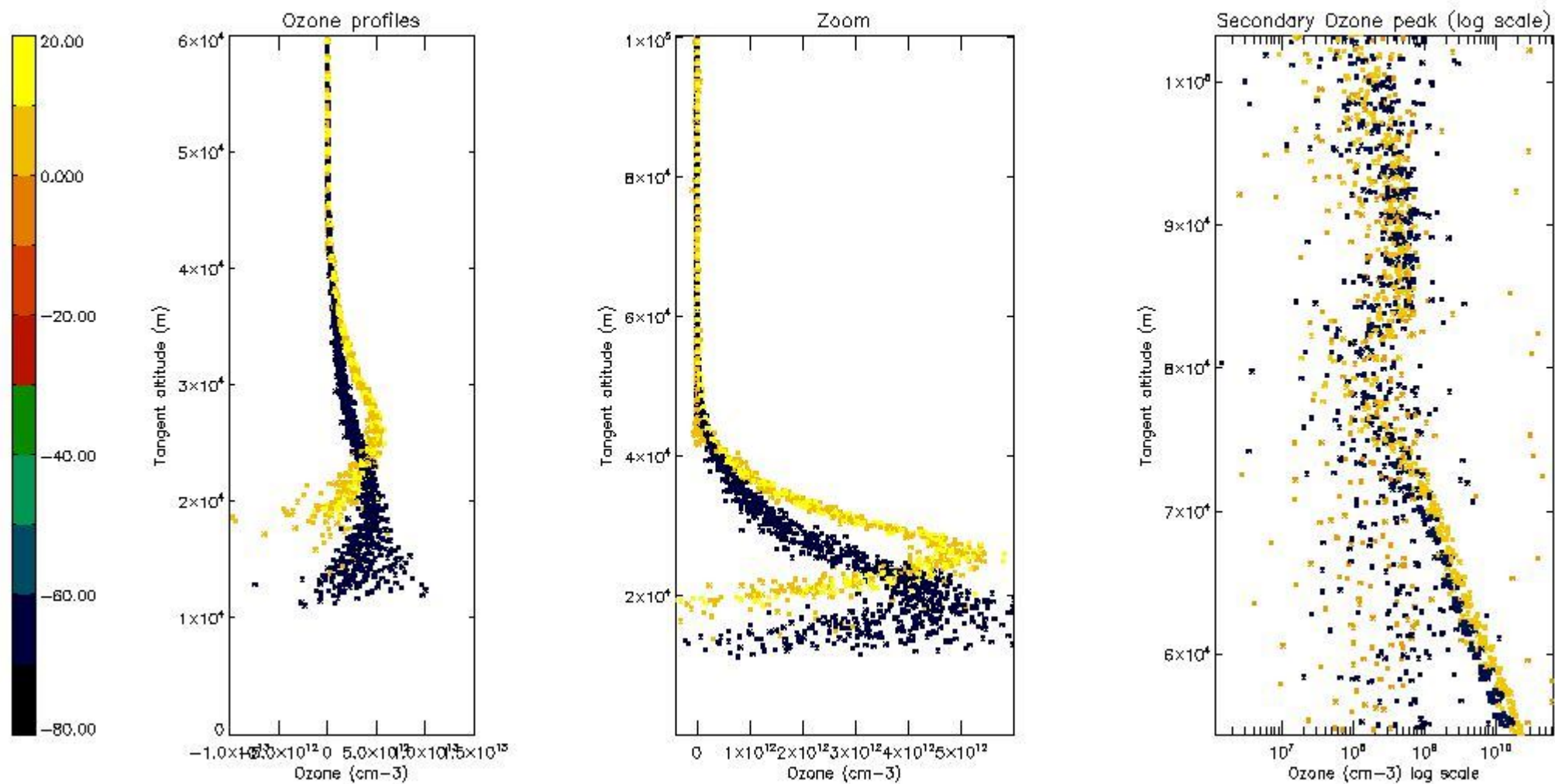
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	20.000
STD < 20	7.0000

STD < 10	4.0000
STD < 5	NaN

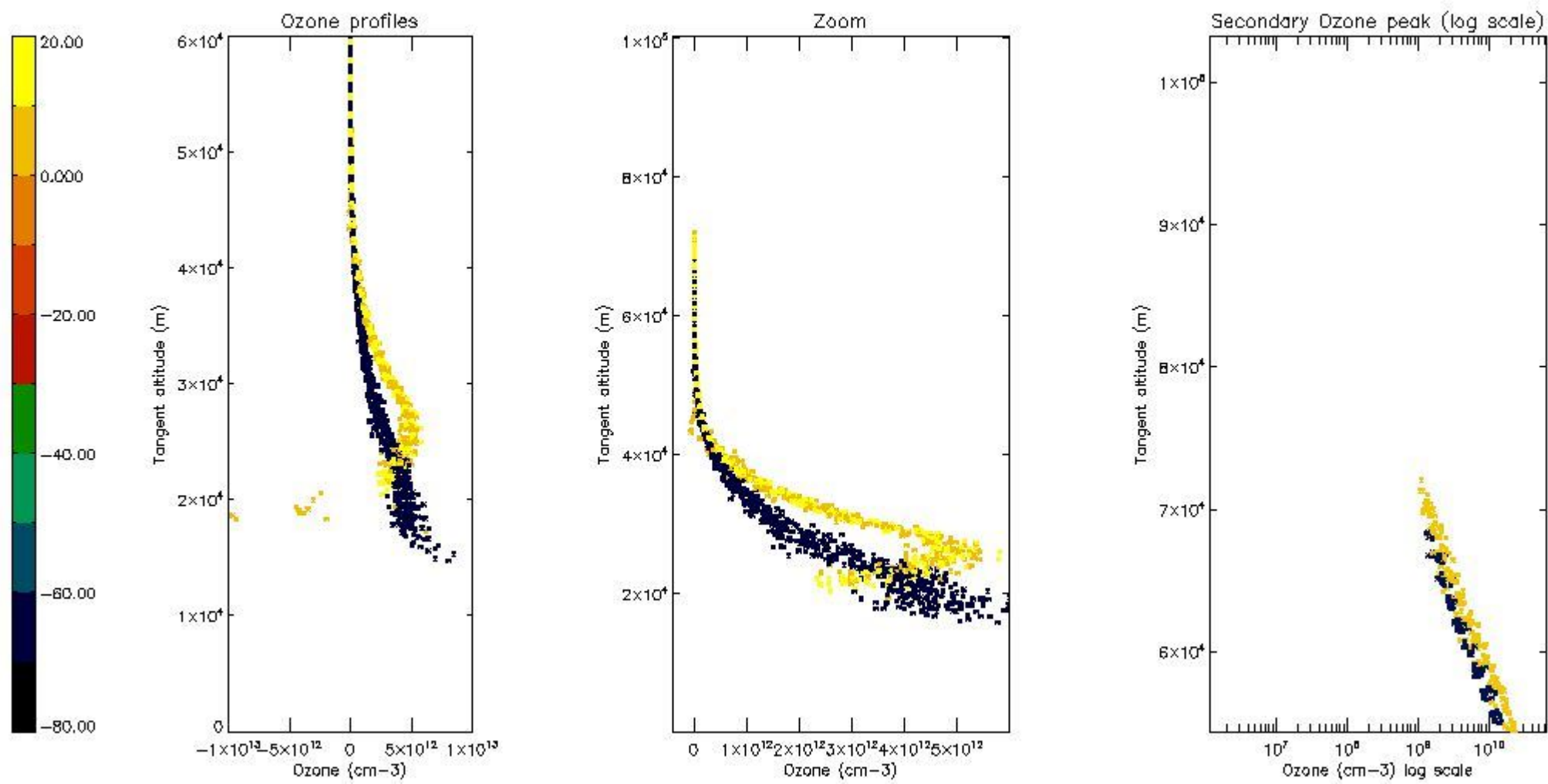
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



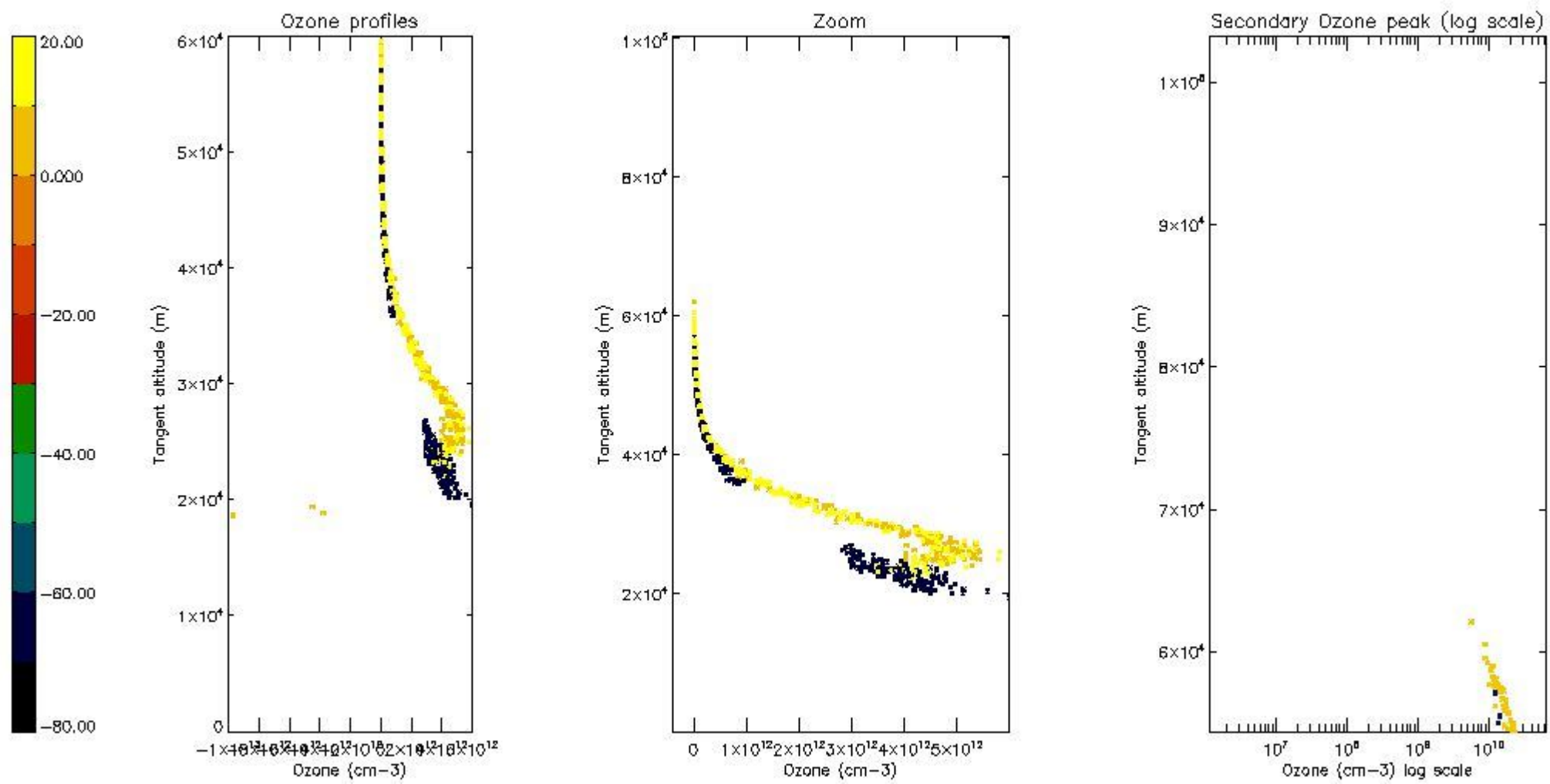
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.

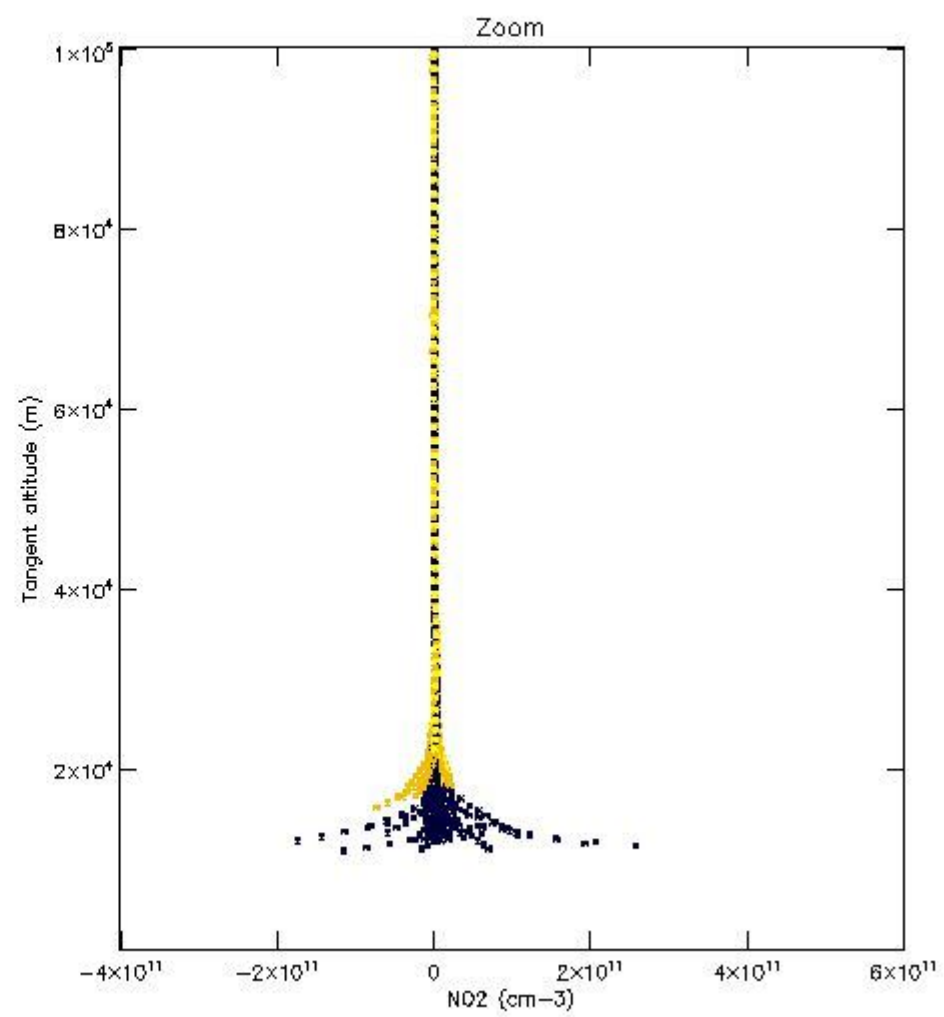
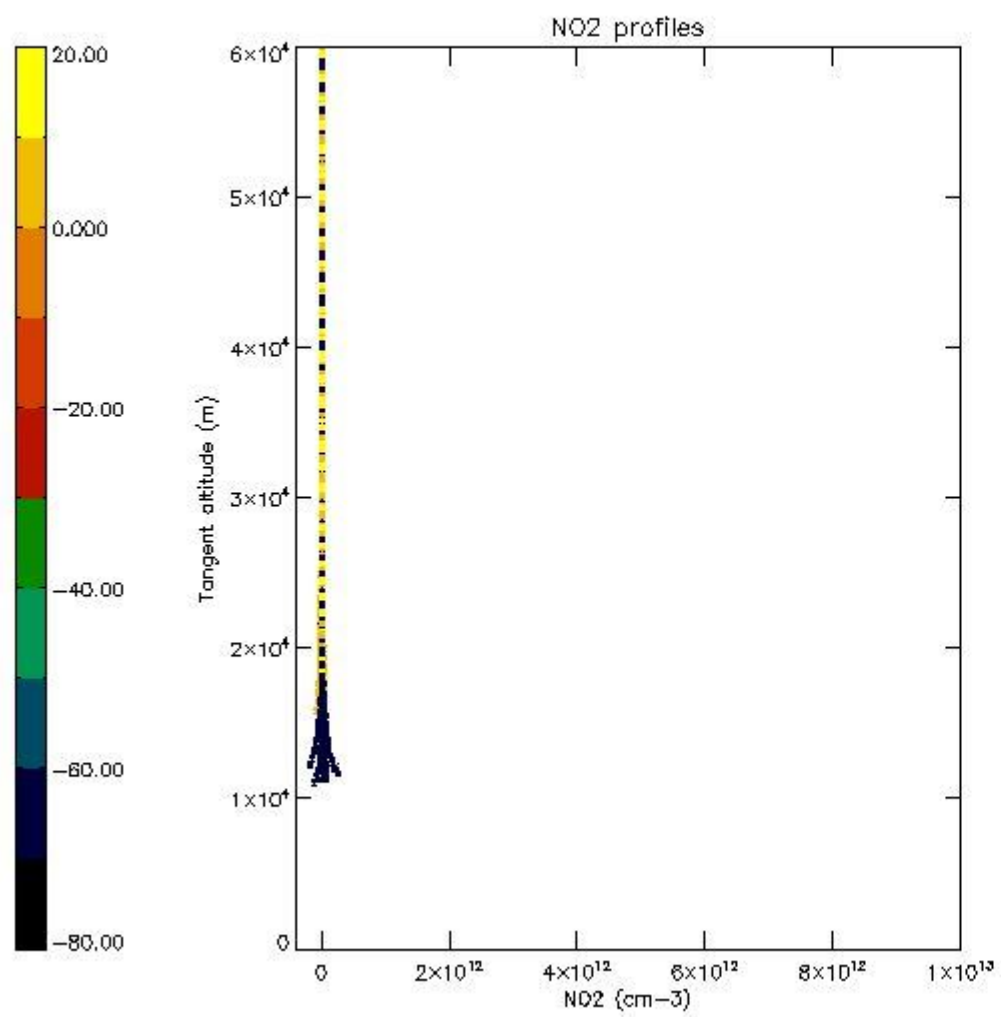


5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.

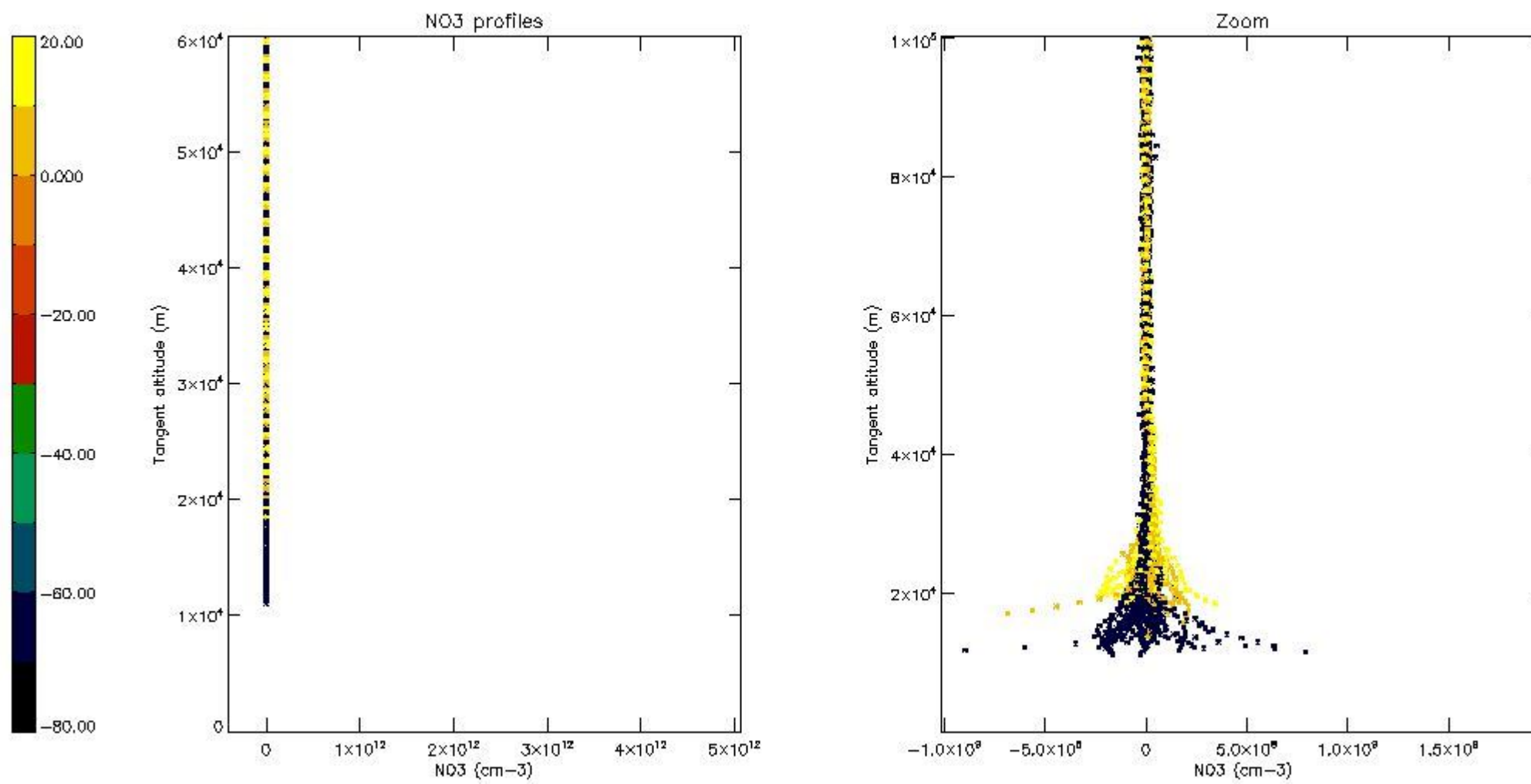
5.6 Plot NO2 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

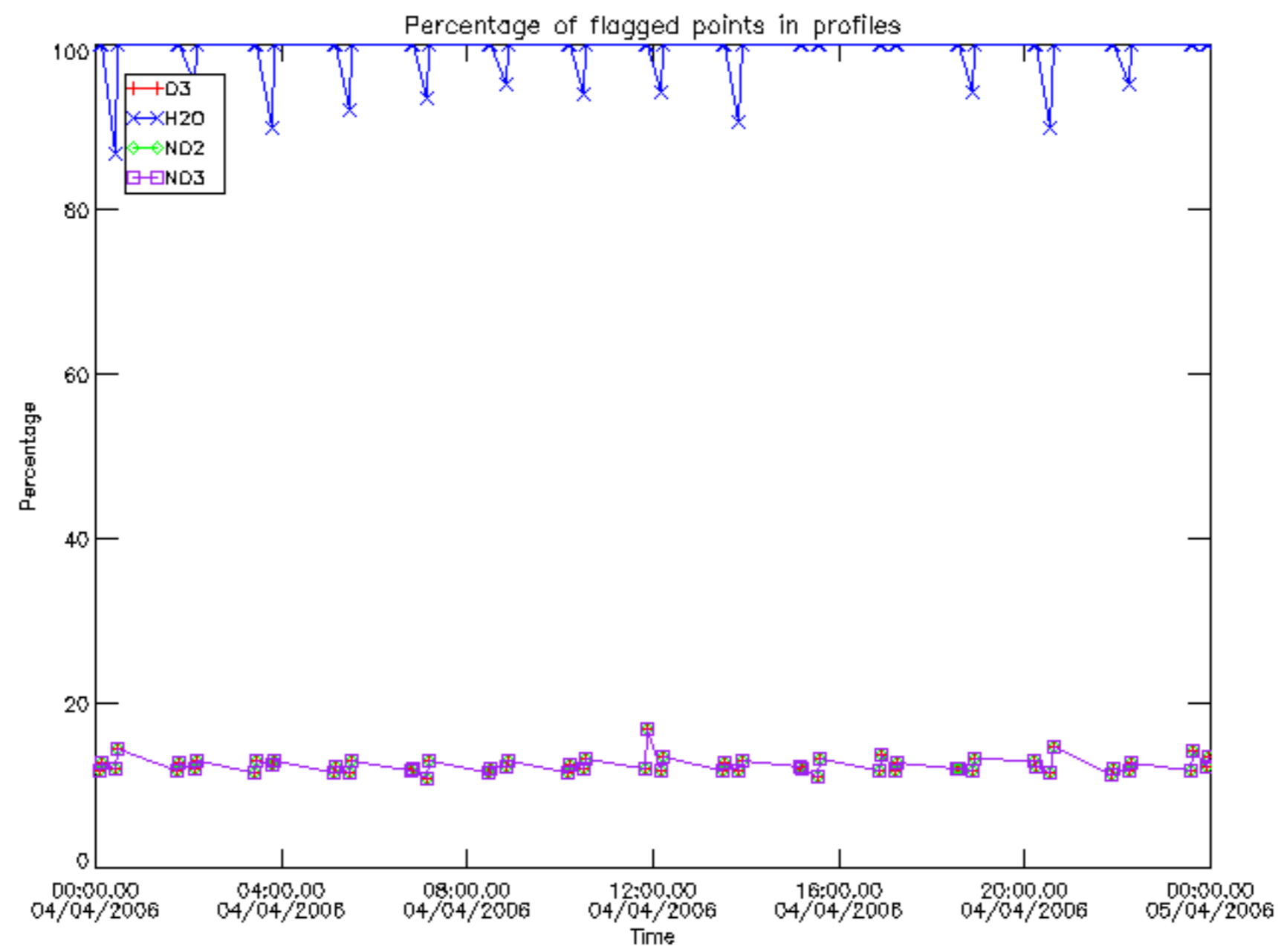
The colorbar represents the latitude.



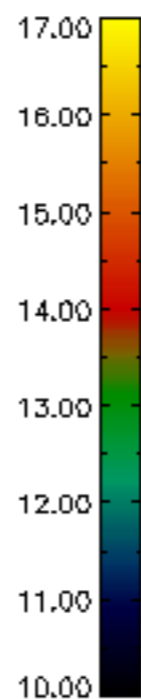
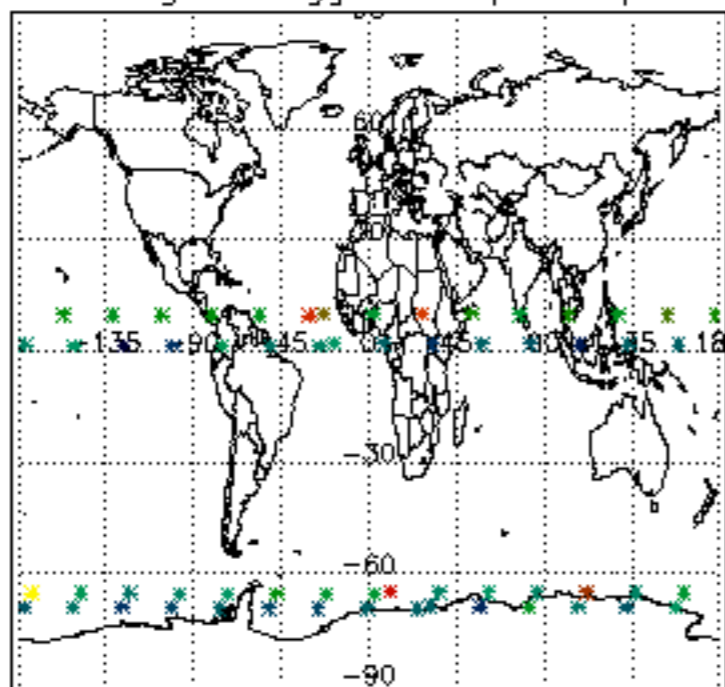
6. Auxiliary Data Files used for the production reported in section 2

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.

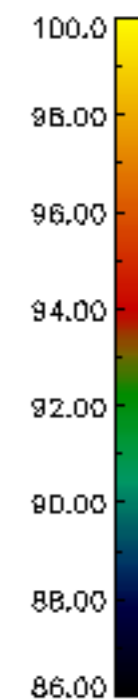
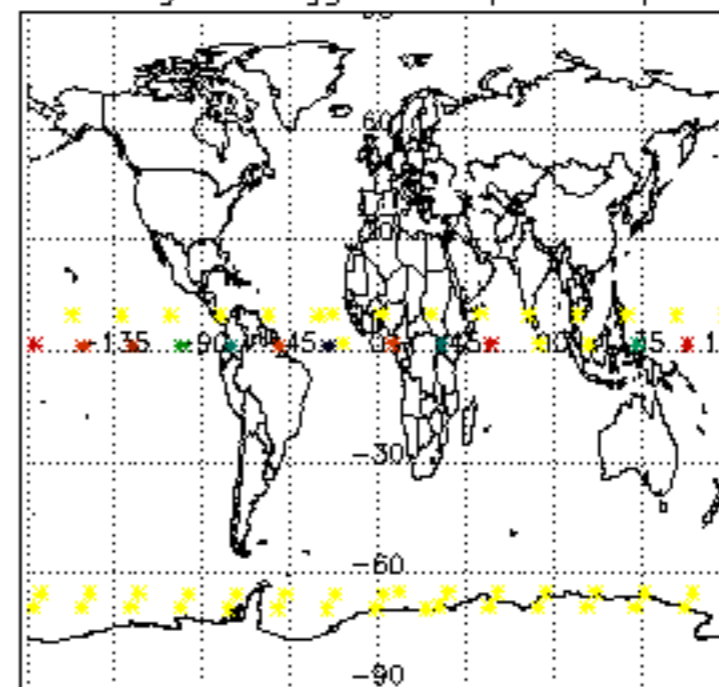
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	04-APR-2006 00:00:21
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-APR-2006 00:00:21
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-APR-2006 00:00:21



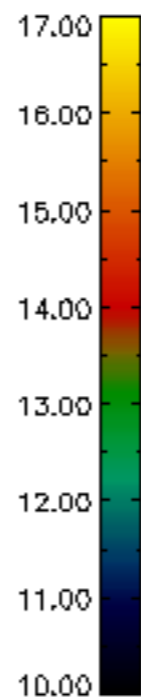
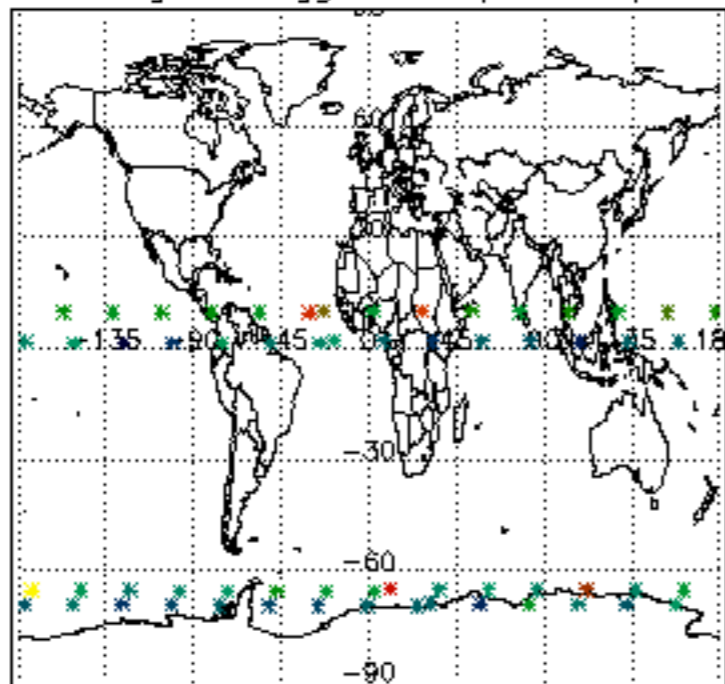
Percentage of flagged data per D3 profile



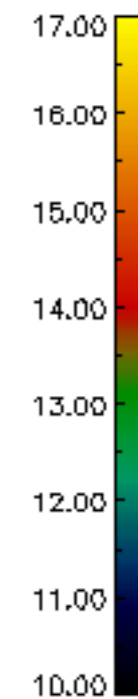
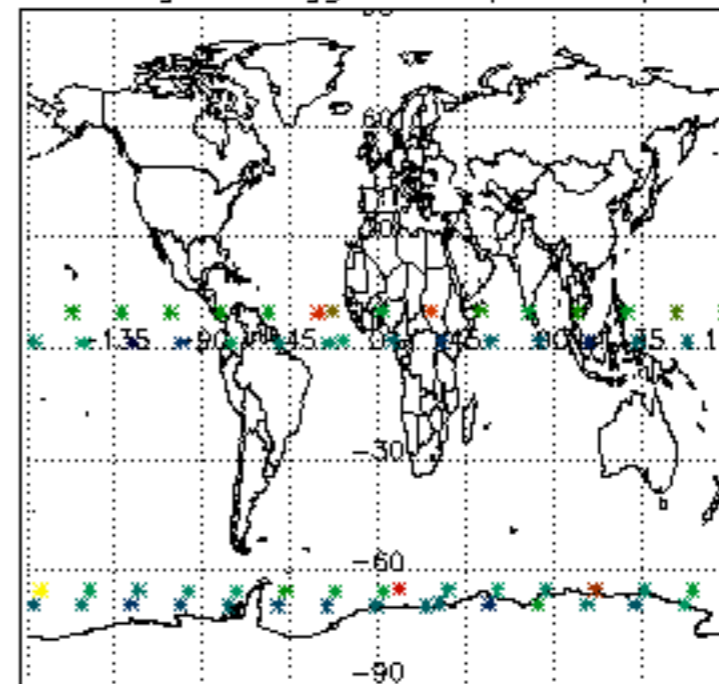
Percentage of flagged data per H2O profile

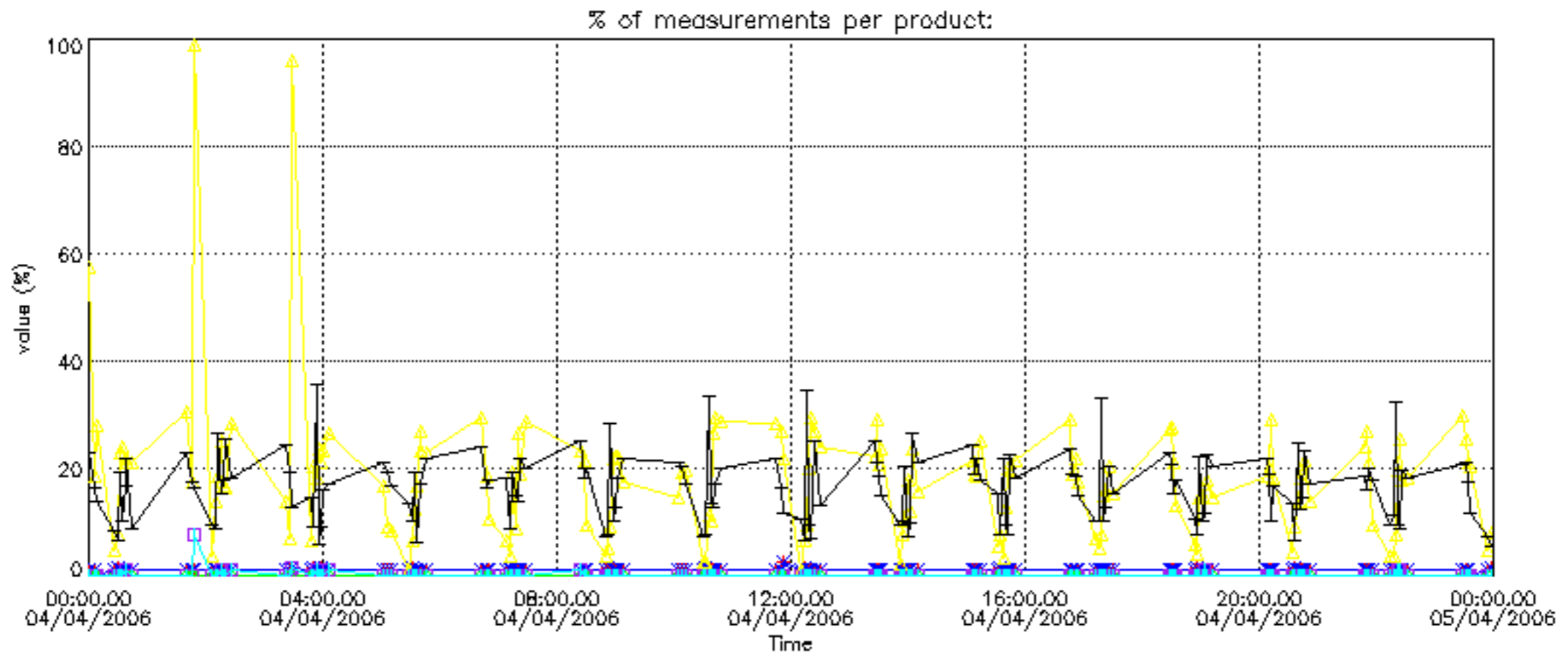


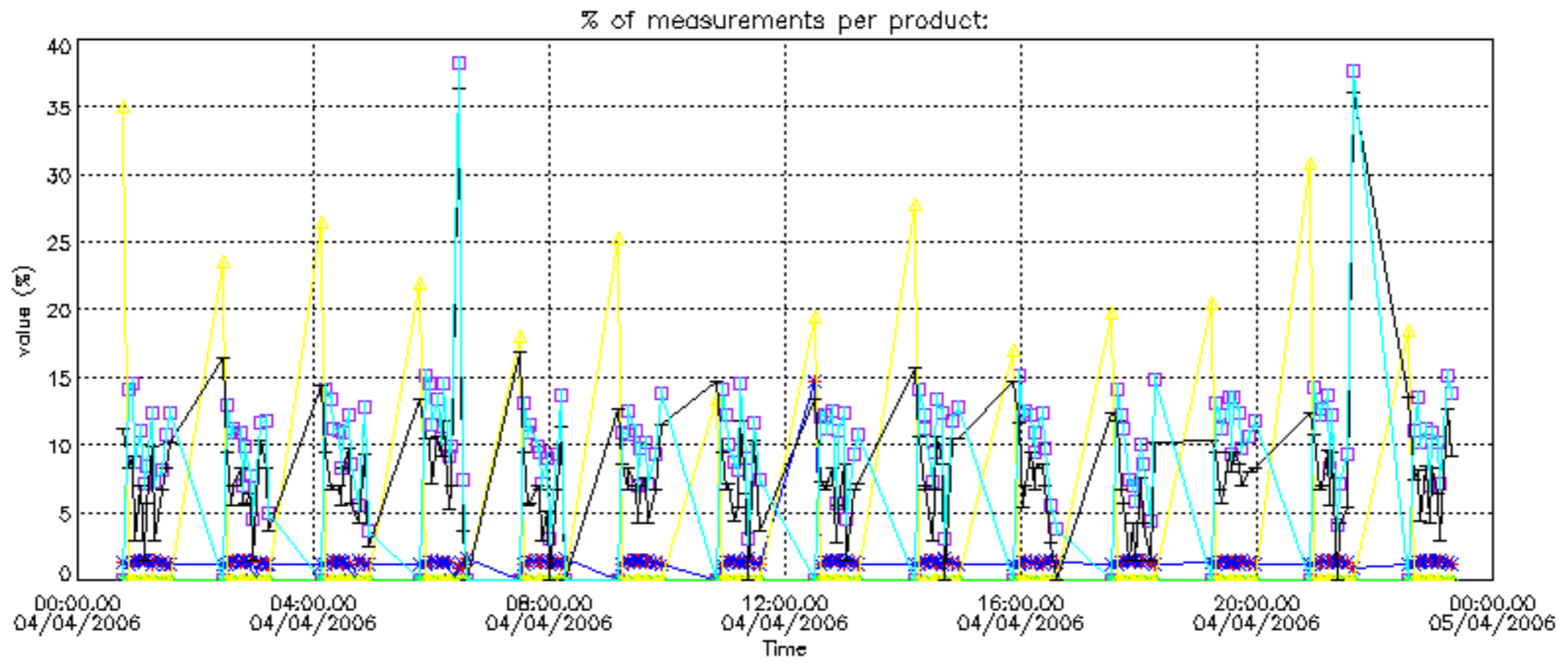
Percentage of flagged data per NO2 profile



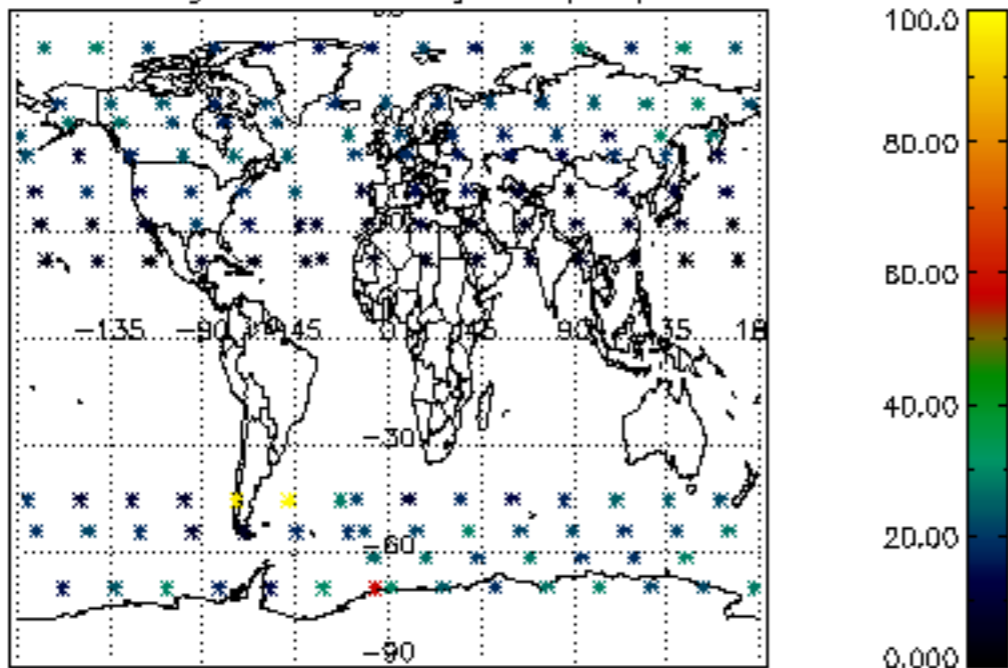
Percentage of flagged data per NO3 profile



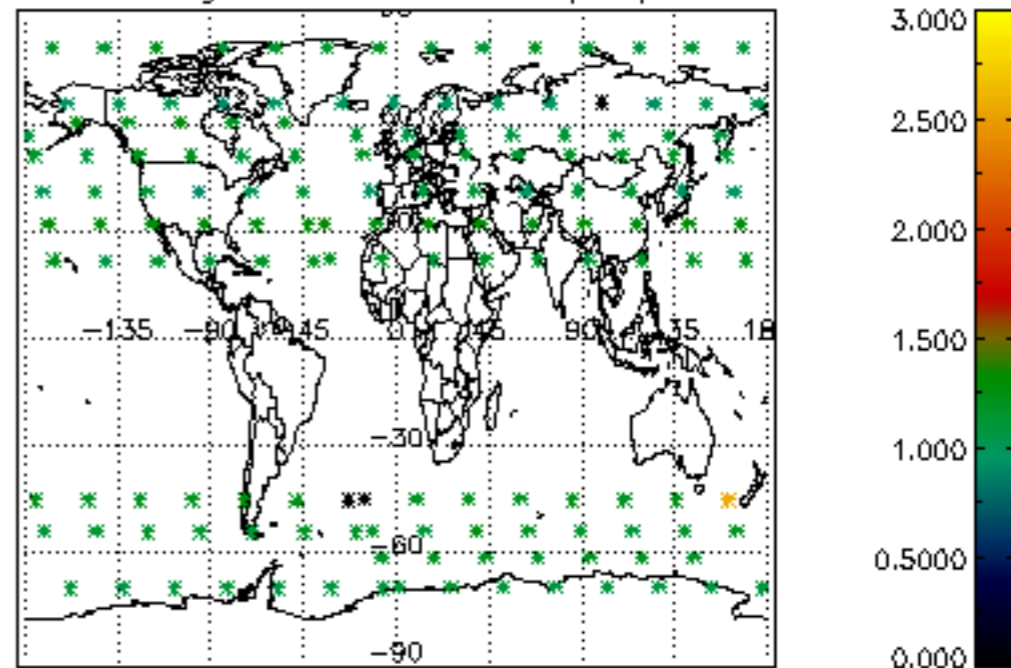




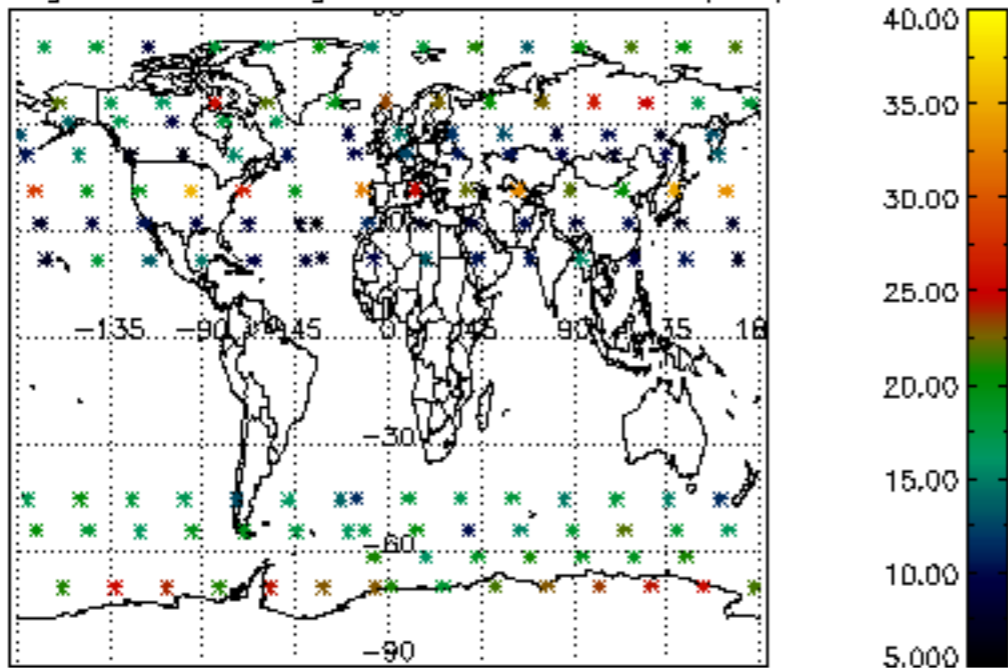
Percentage of cosmic ray hits per profile



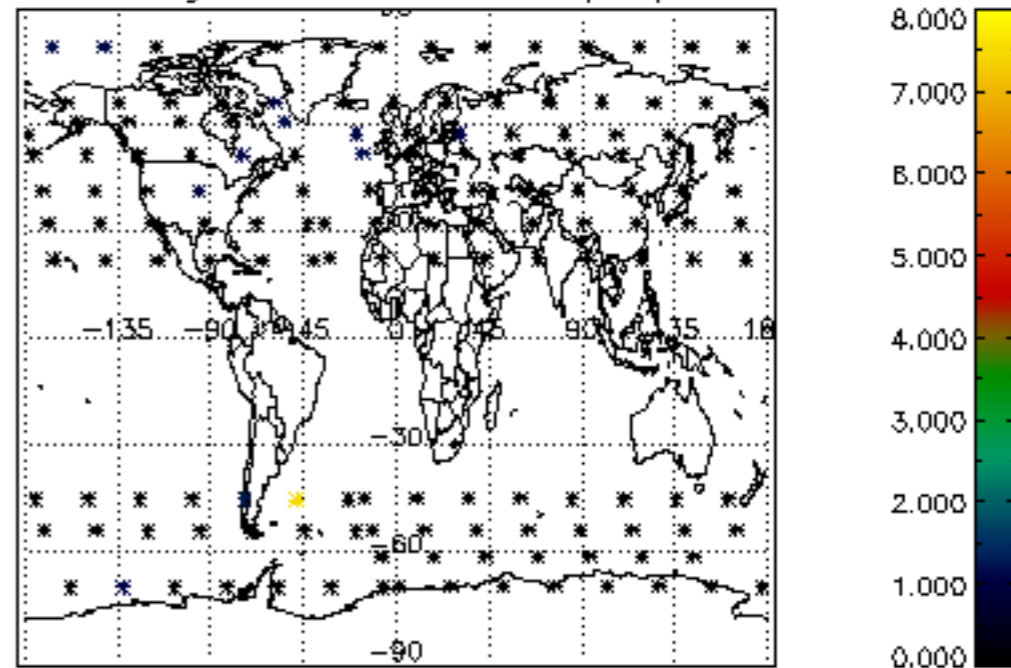
Percentage of datation errors per profile



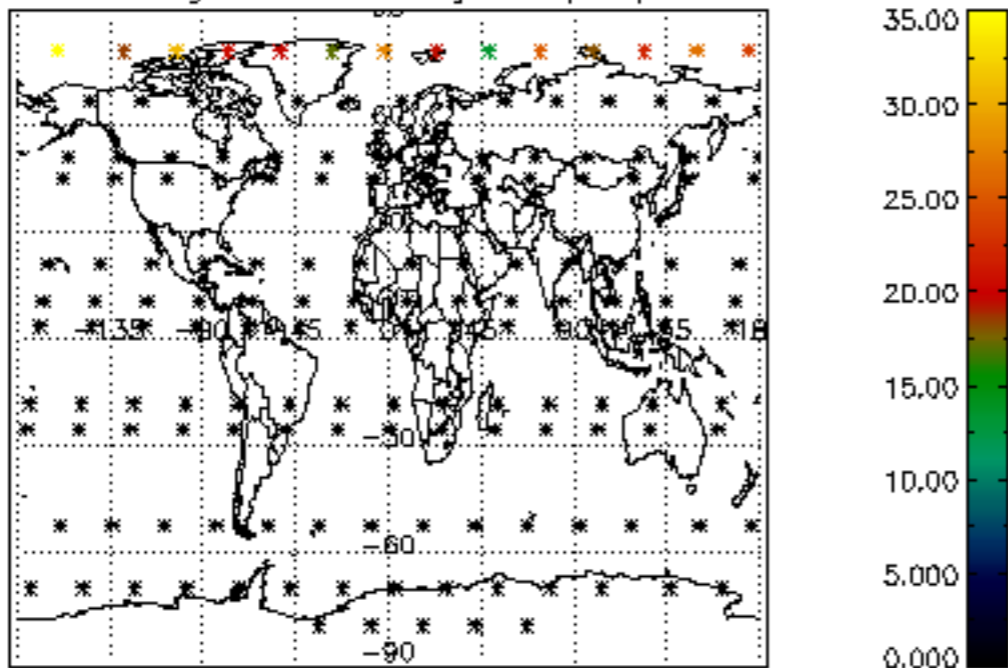
Percentage of star falling outside central band per profile



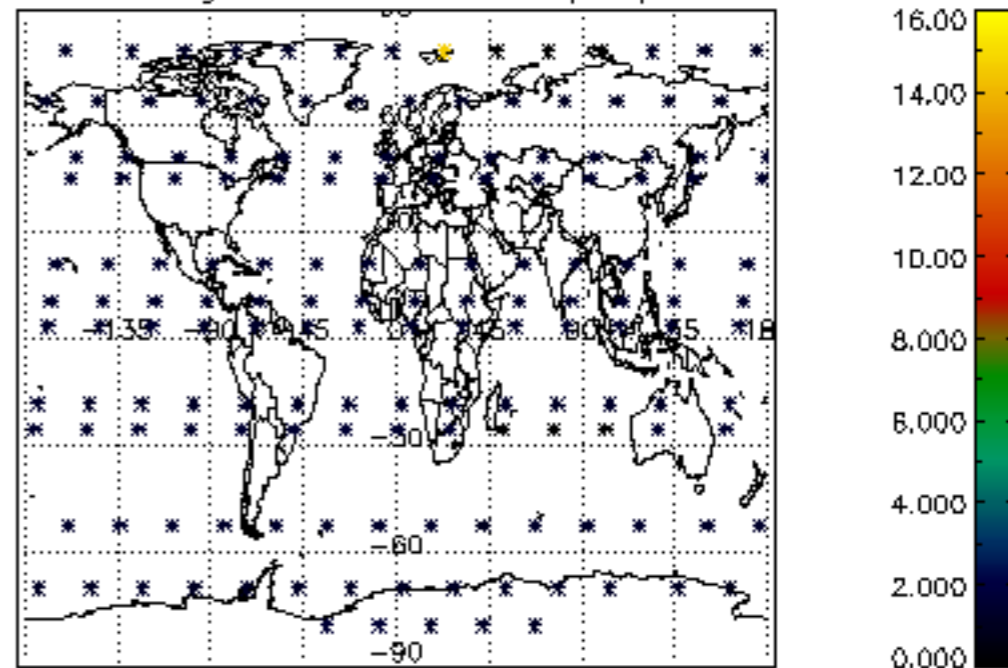
Percentage of saturation errors per profile



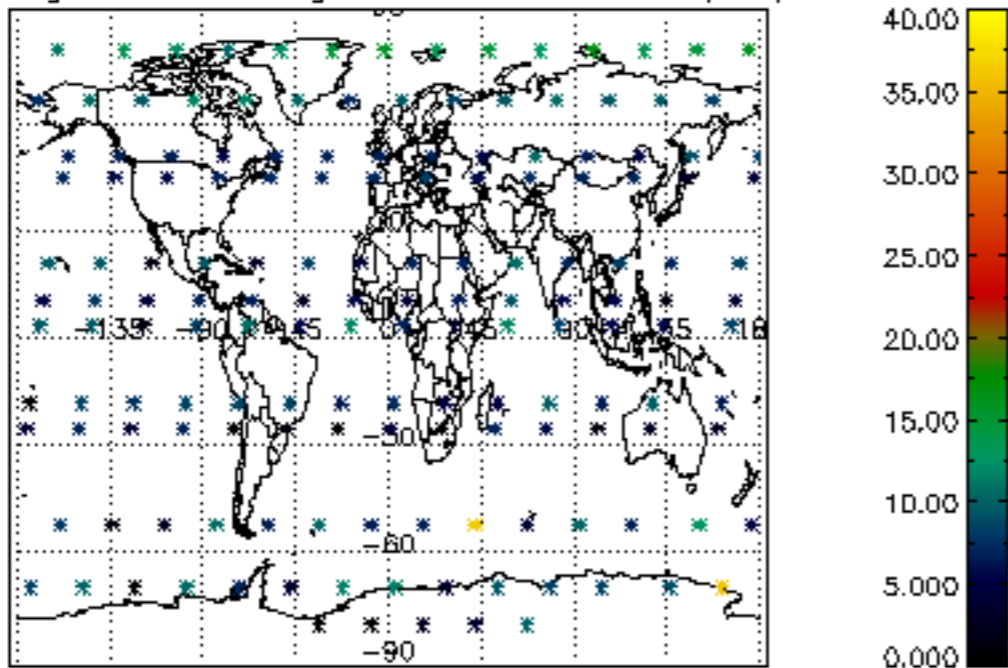
Percentage of cosmic ray hits per profile



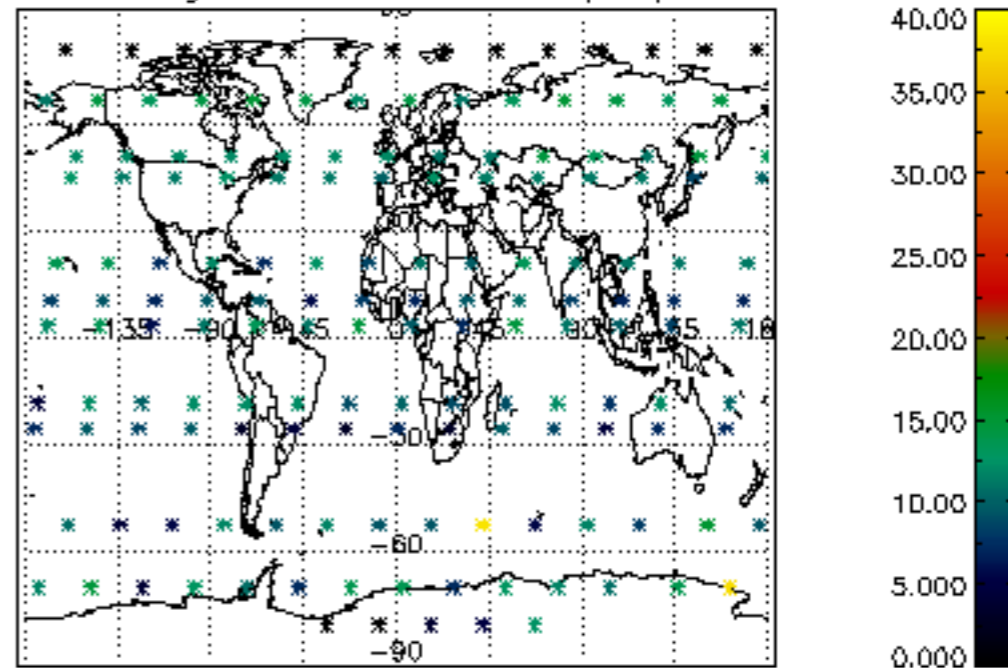
Percentage of datation errors per profile

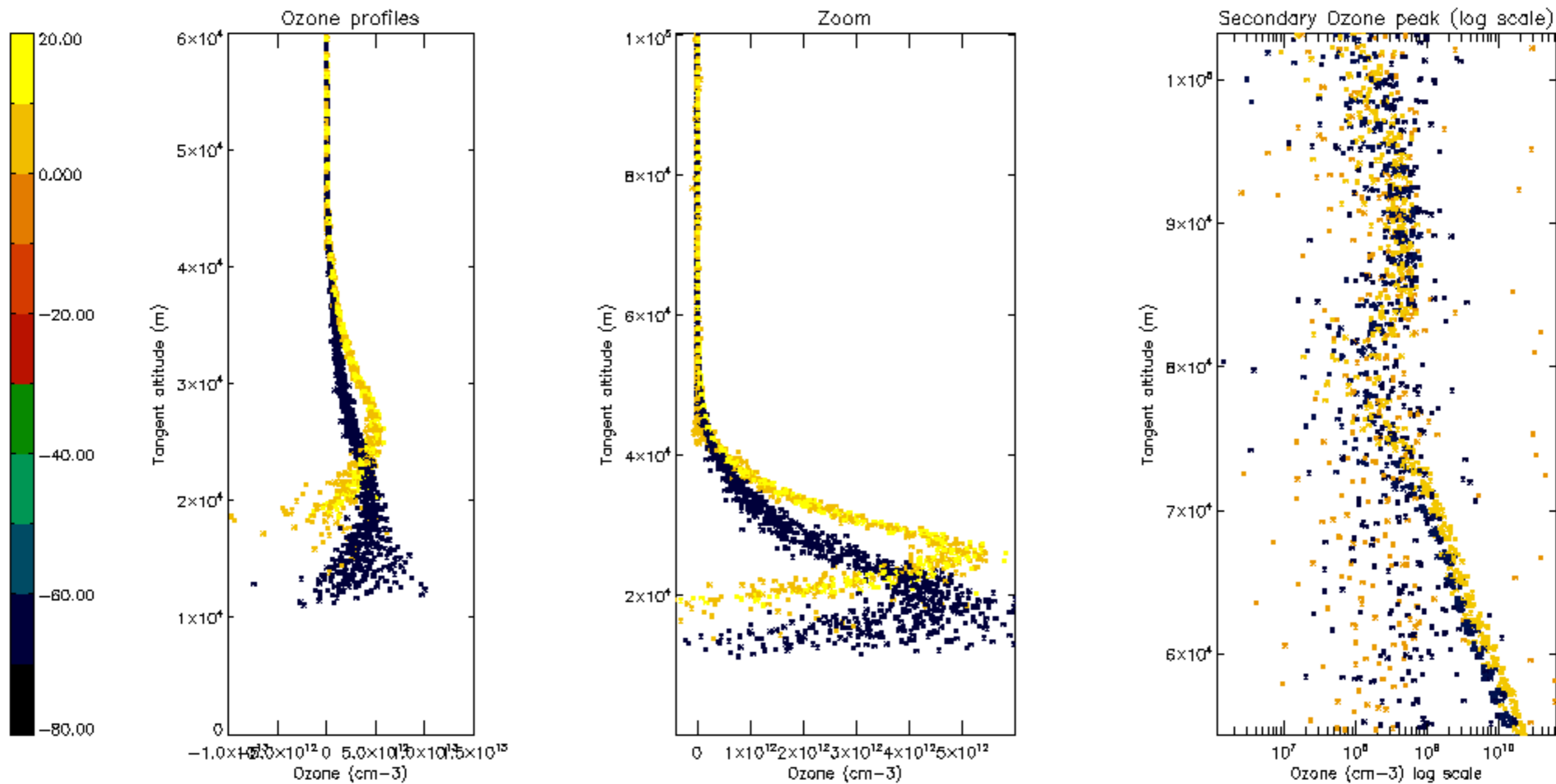


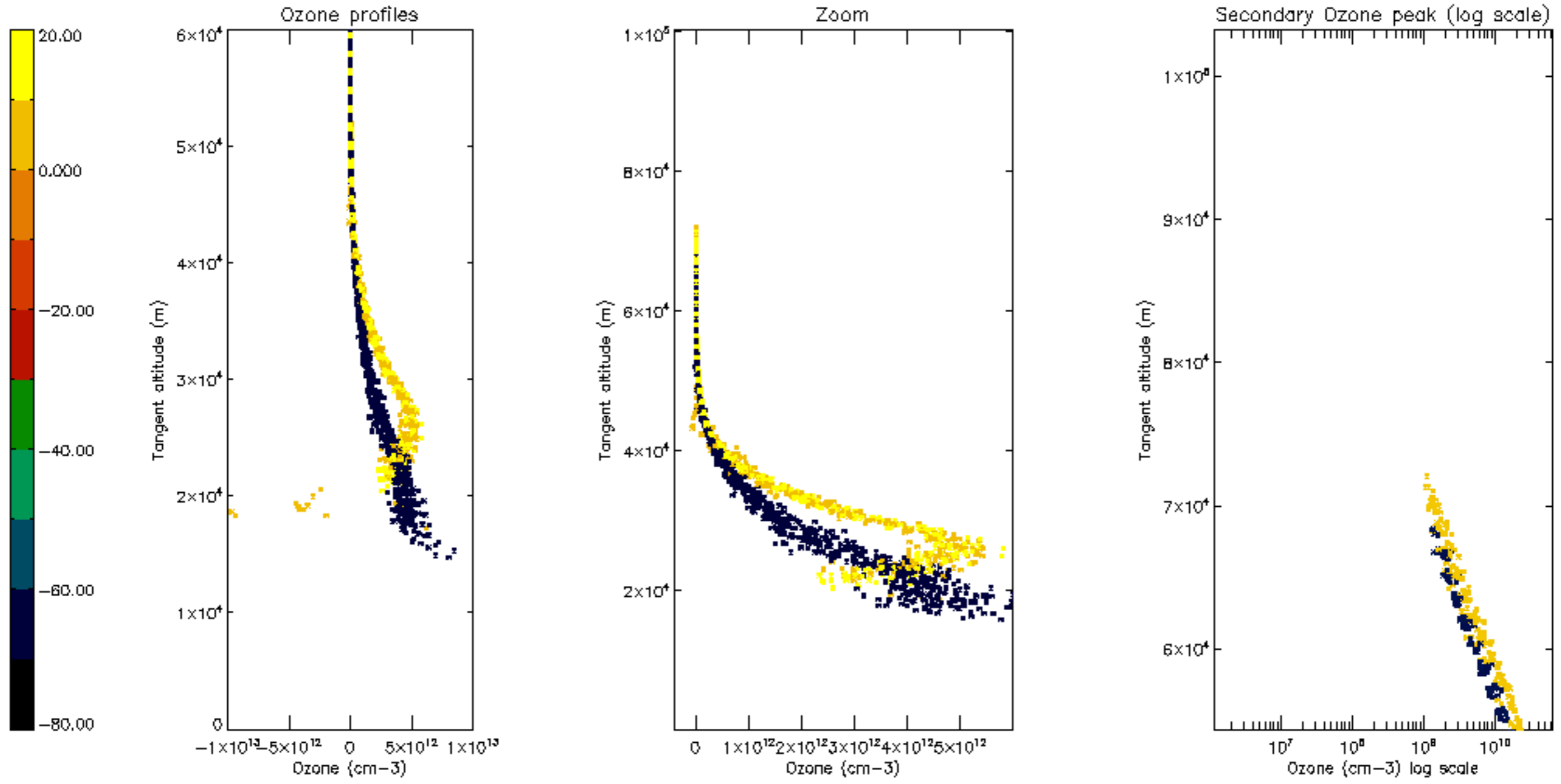
Percentage of star falling outside central band per profile

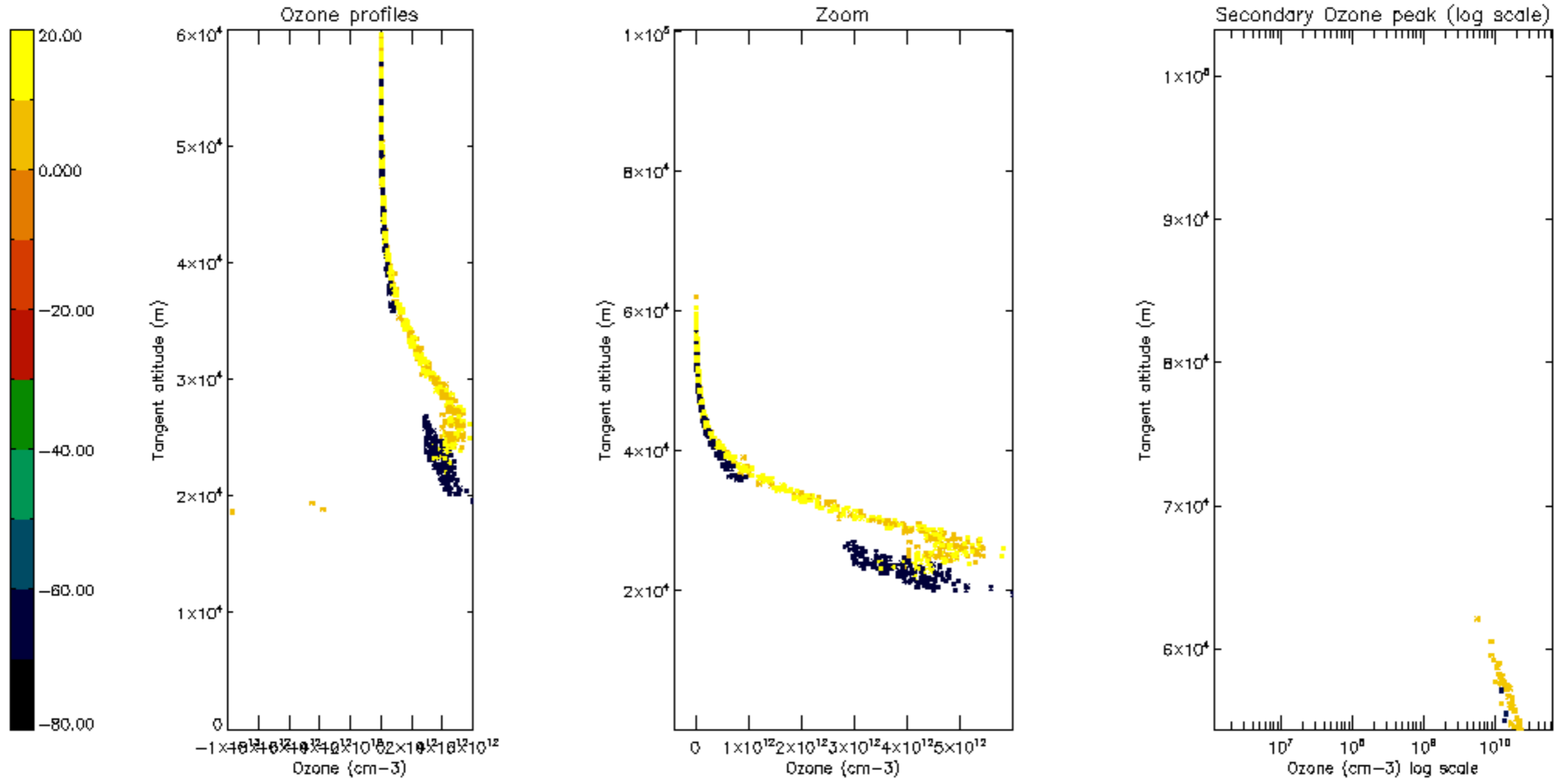


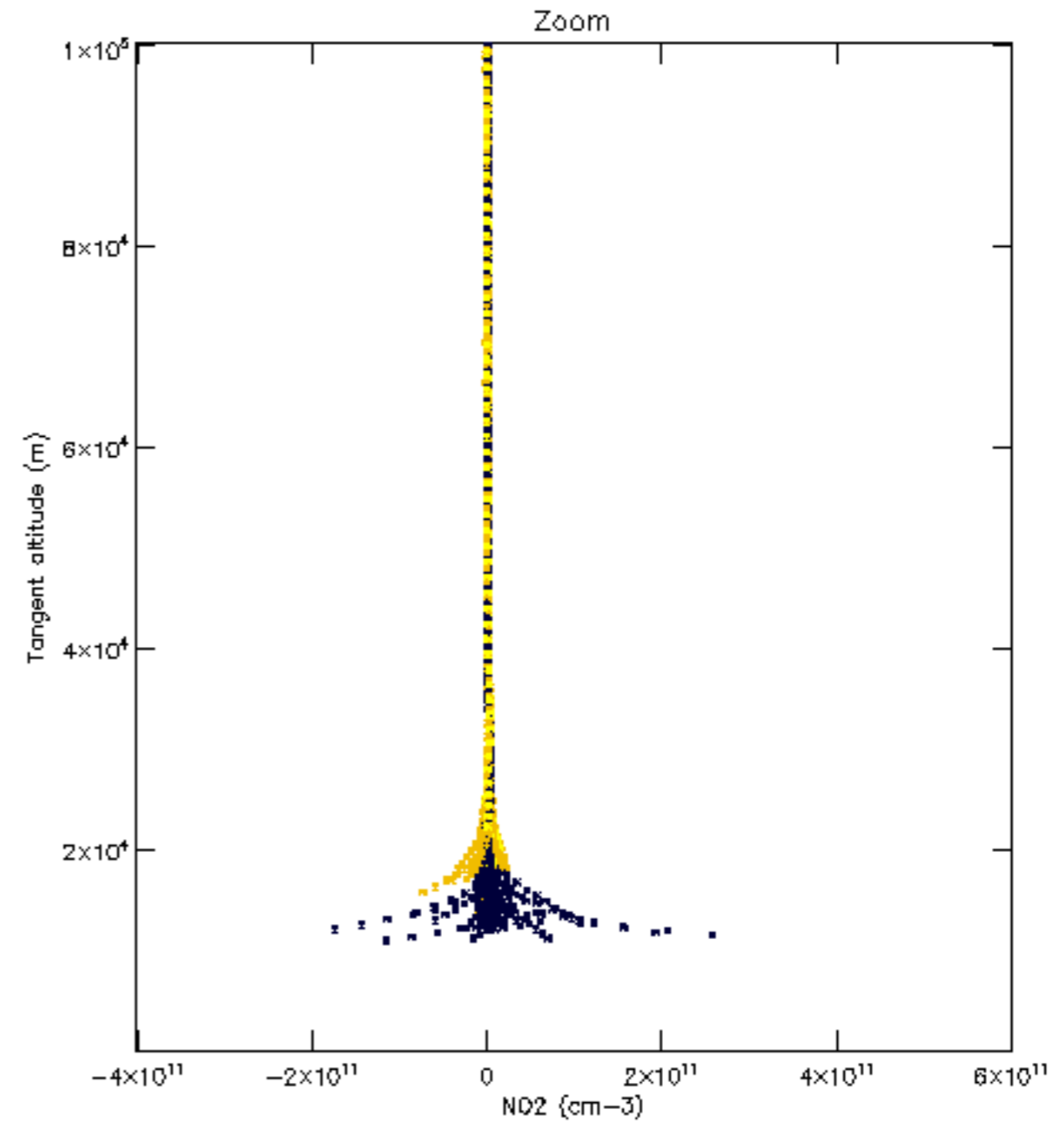
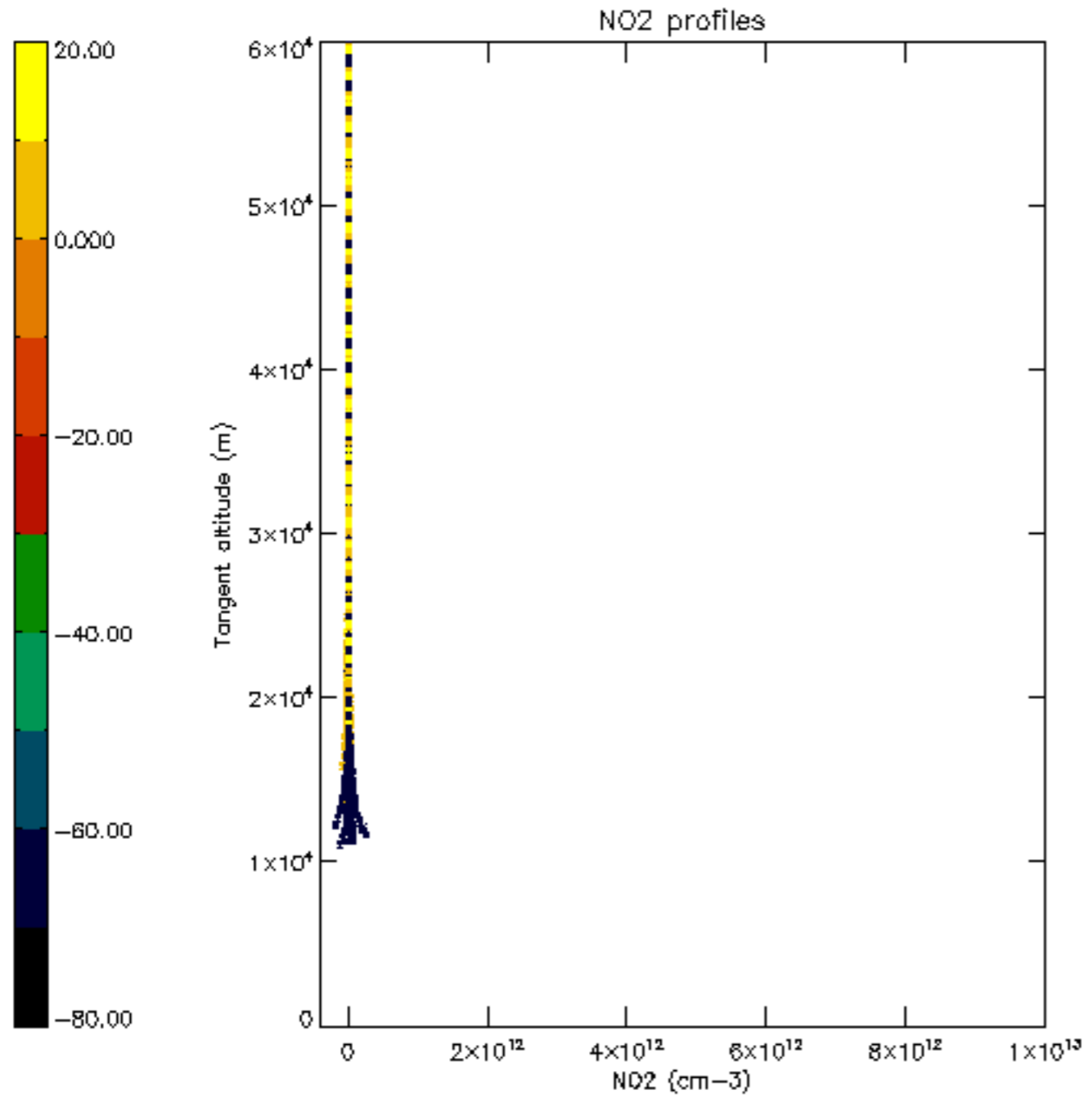
Percentage of saturation errors per profile

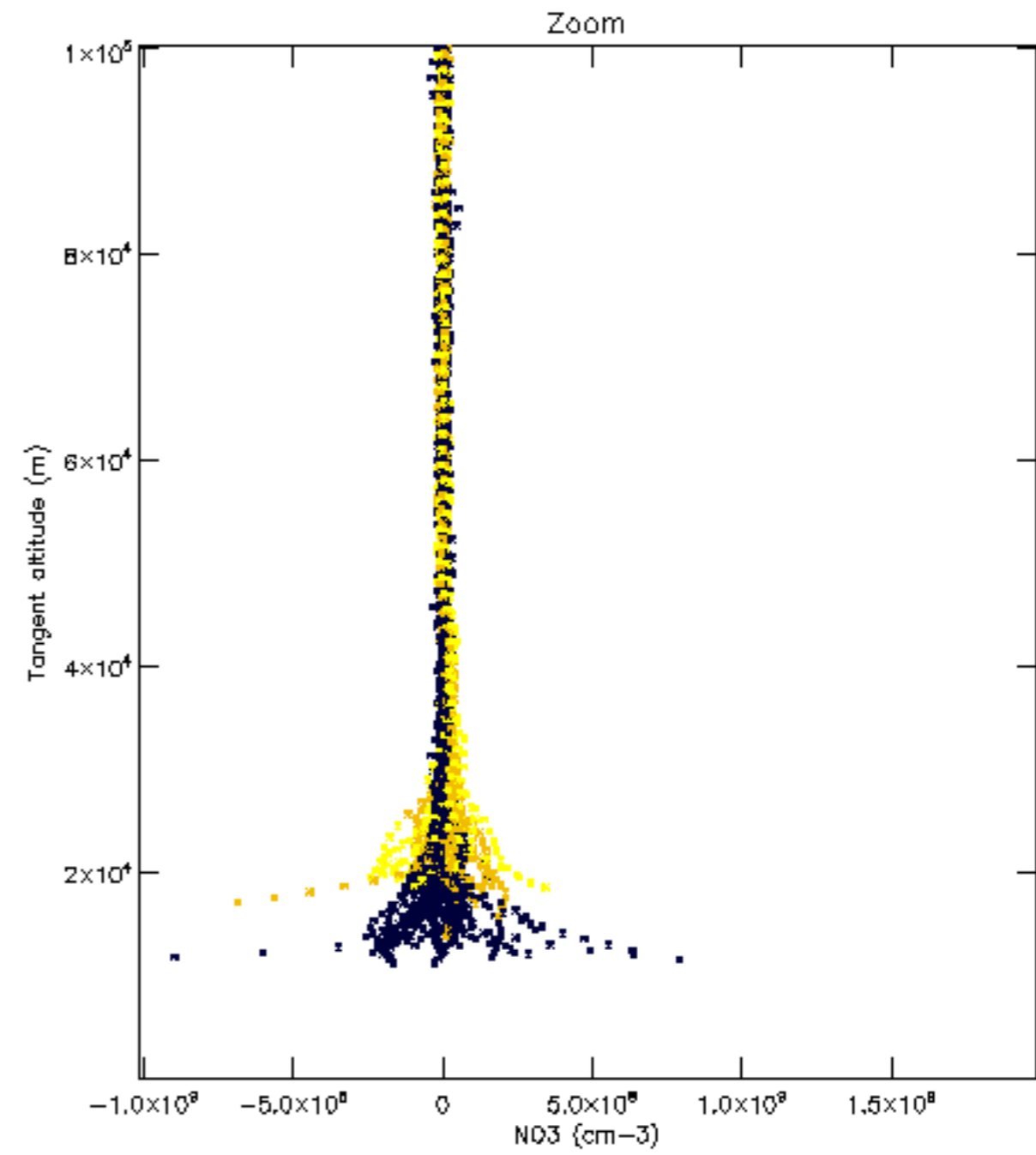
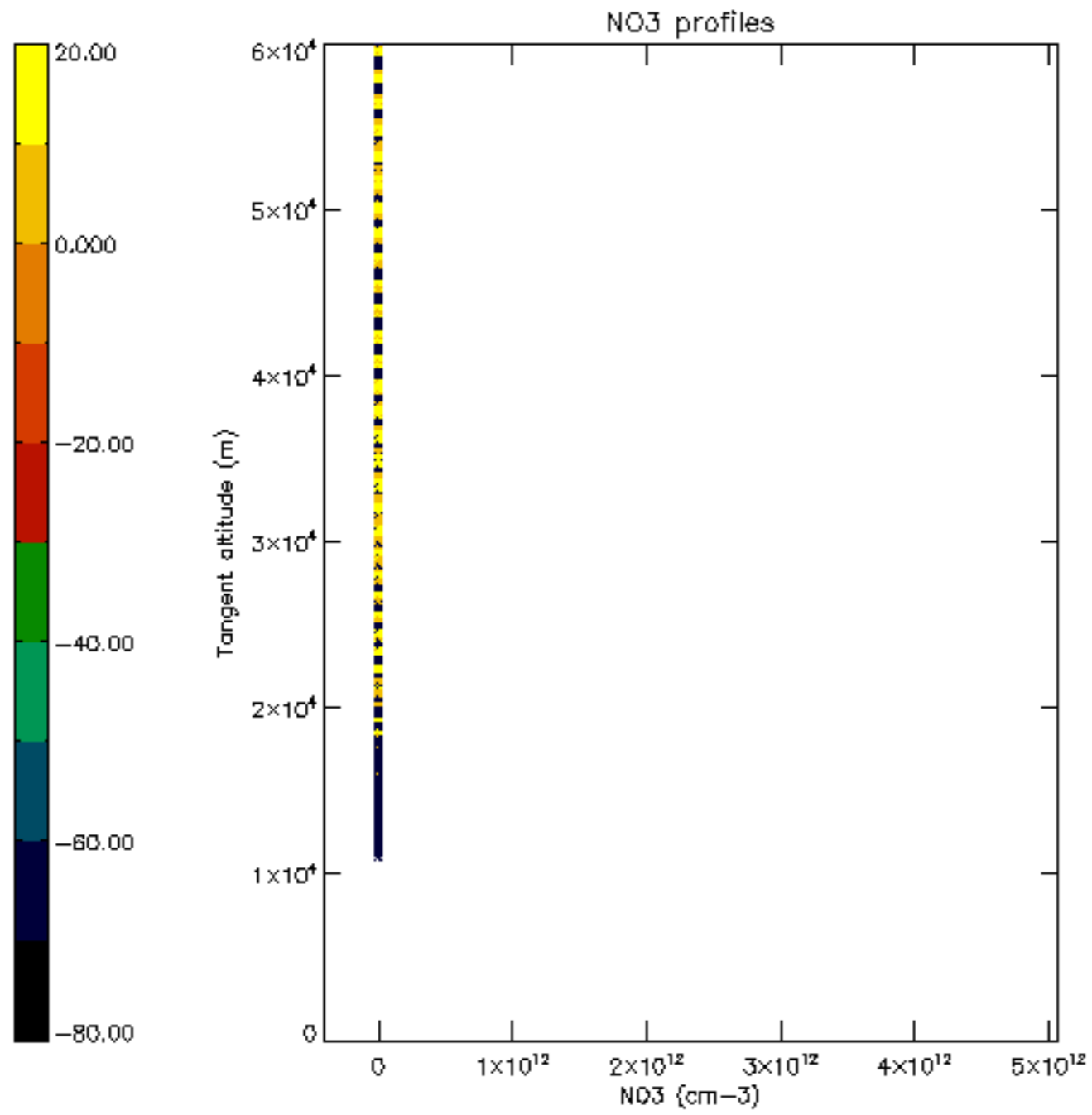


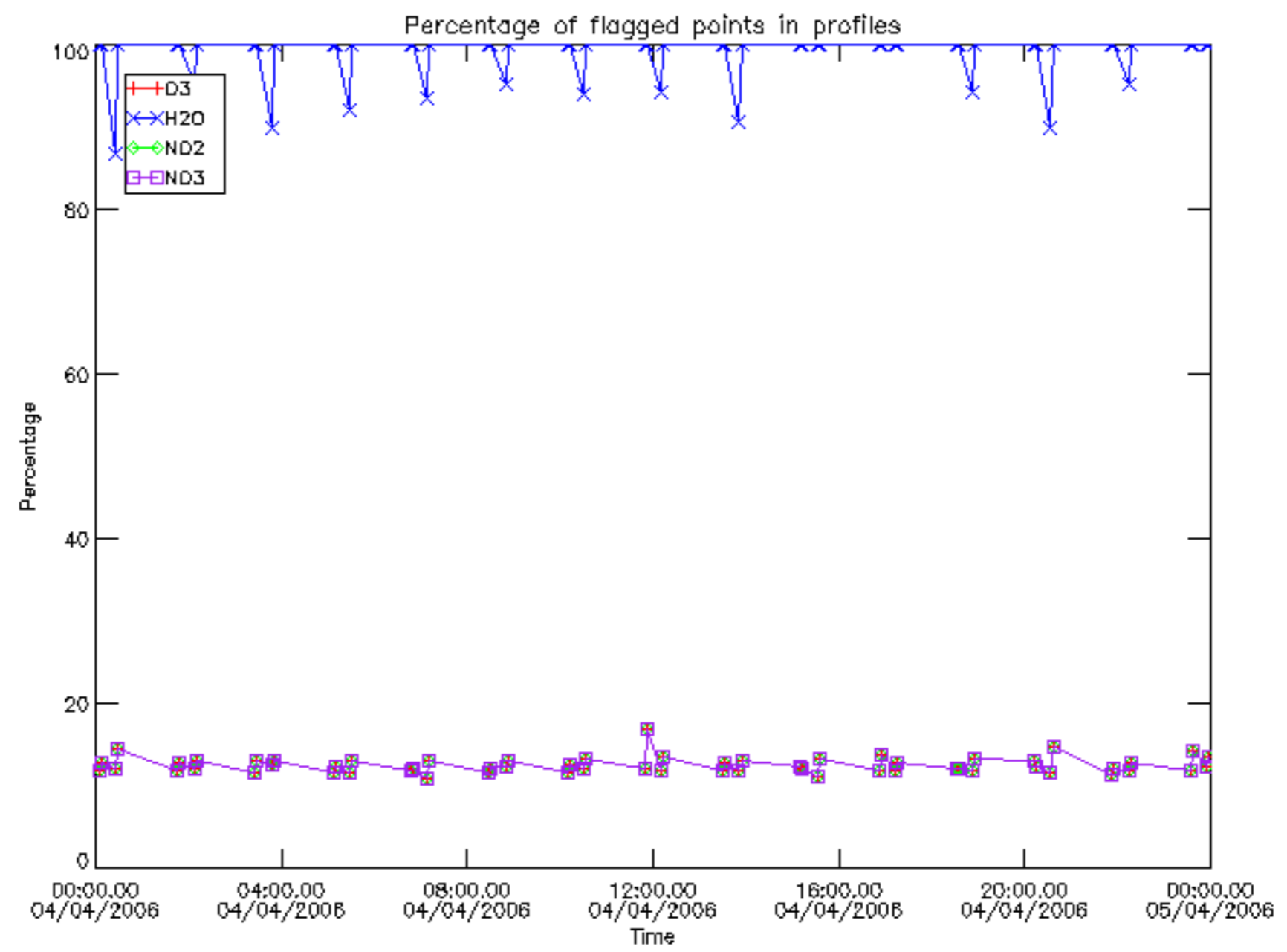




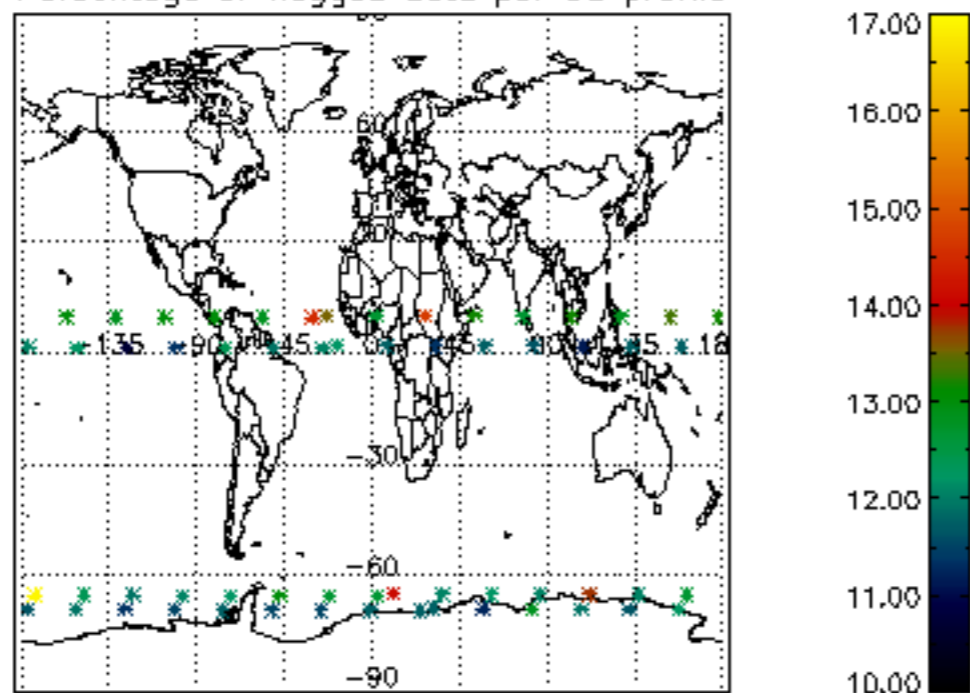




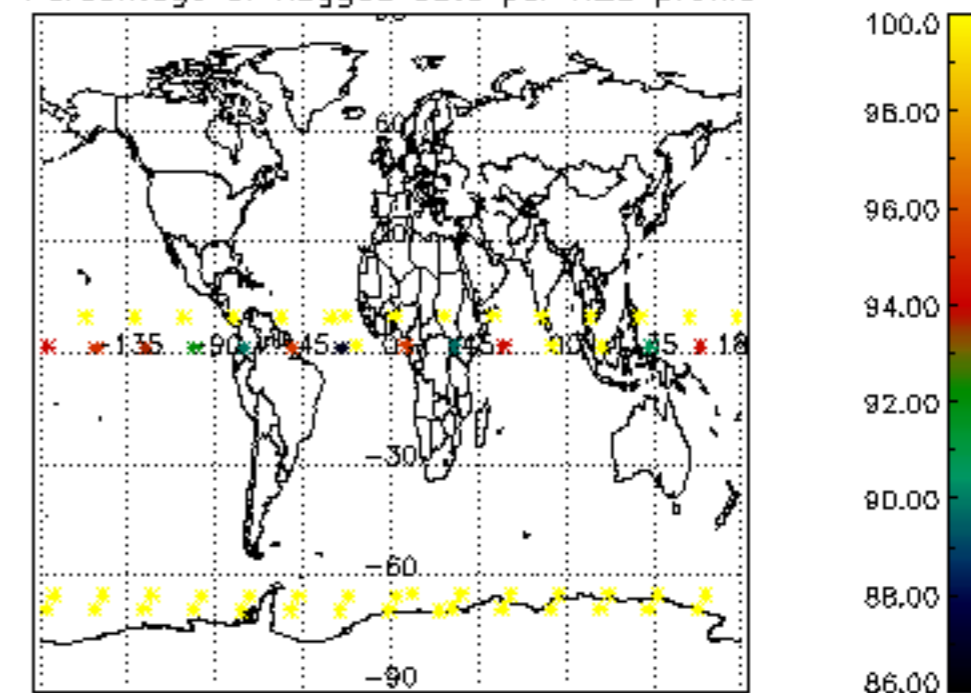




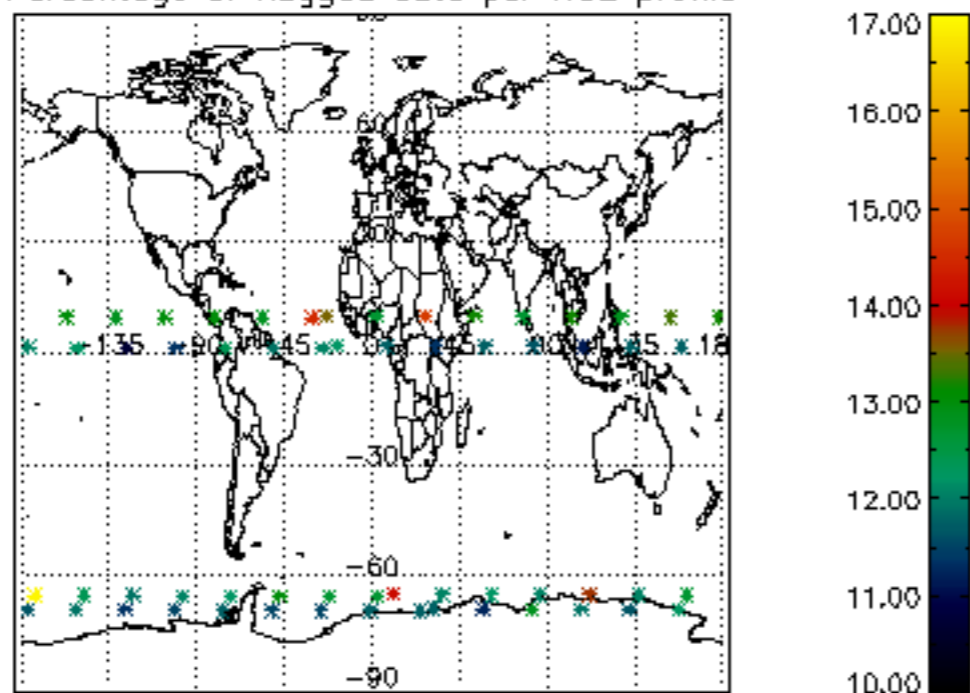
Percentage of flagged data per D3 profile



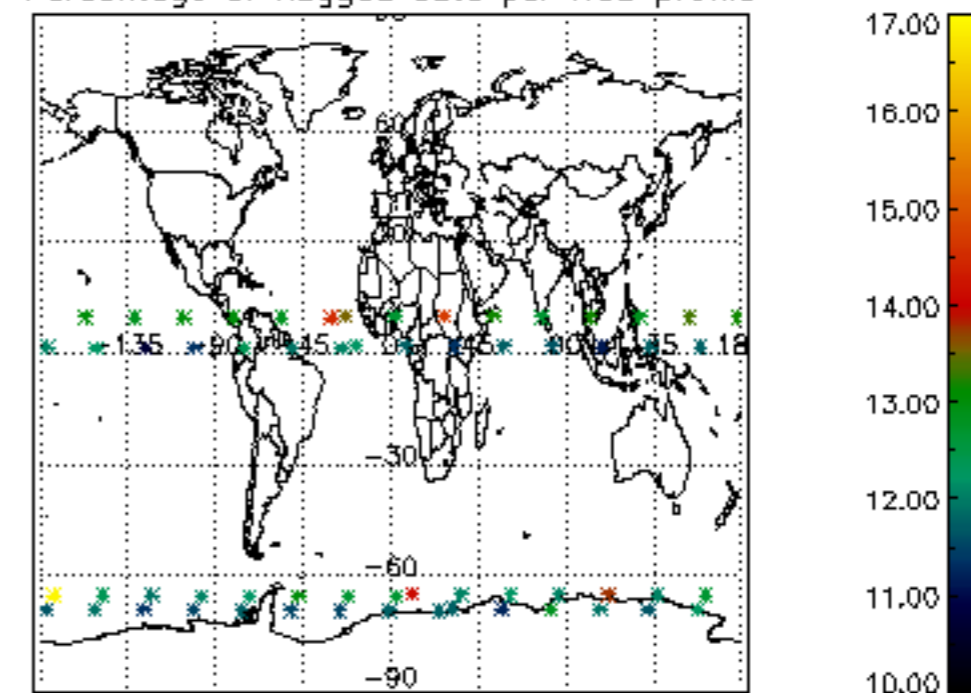
Percentage of flagged data per H2O profile

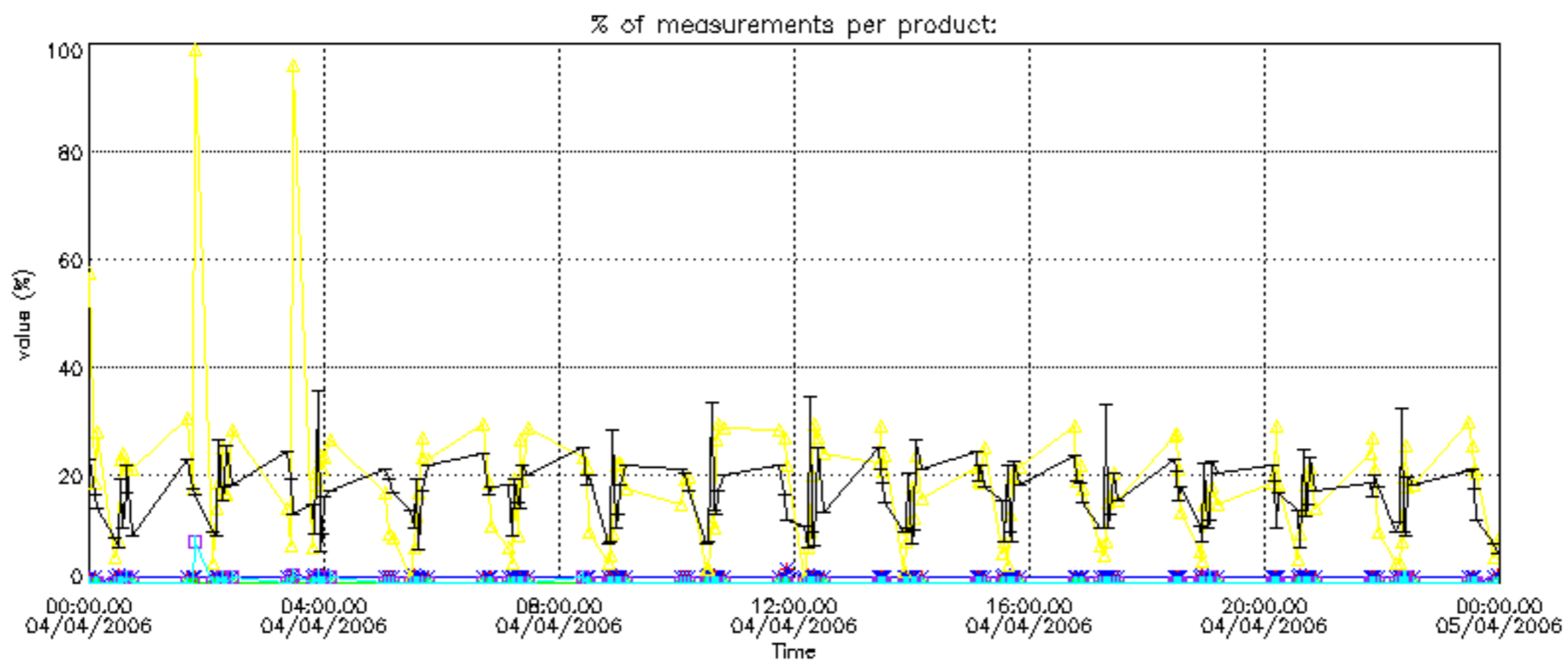


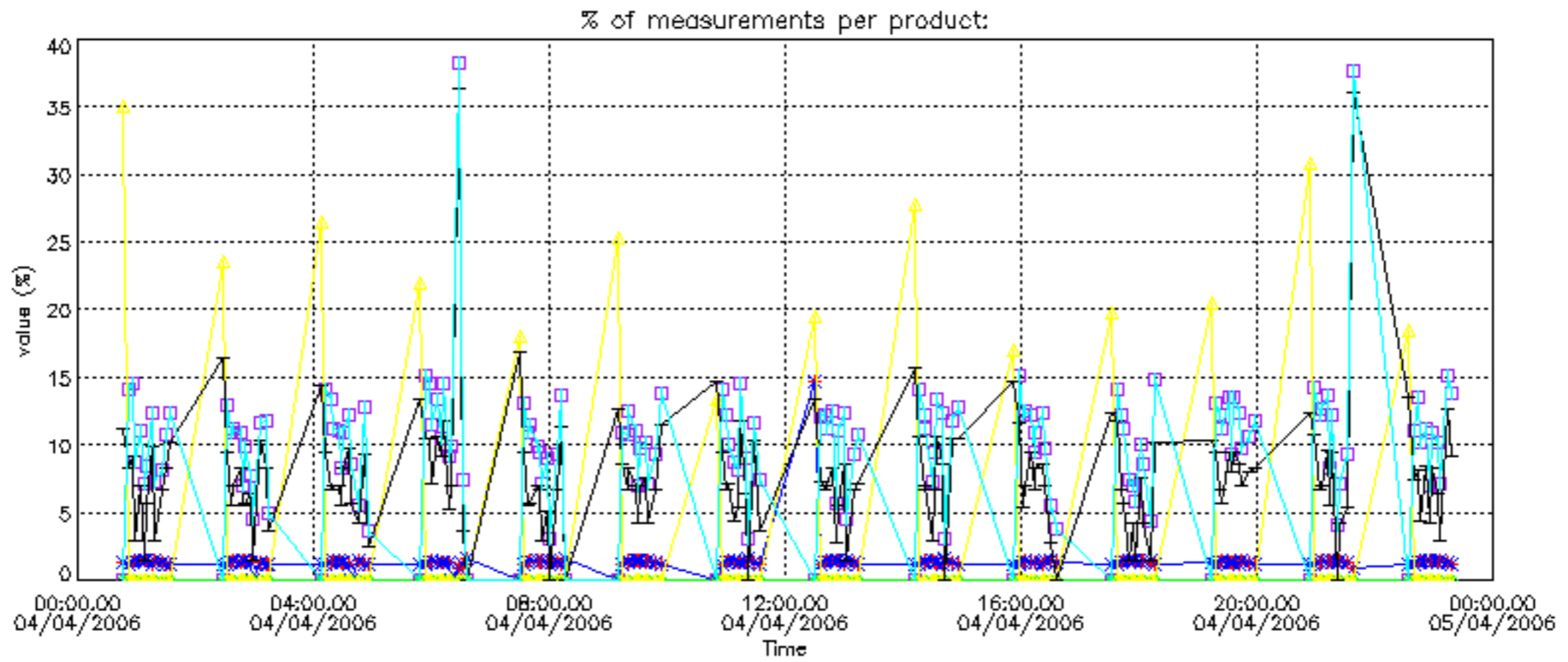
Percentage of flagged data per NO2 profile



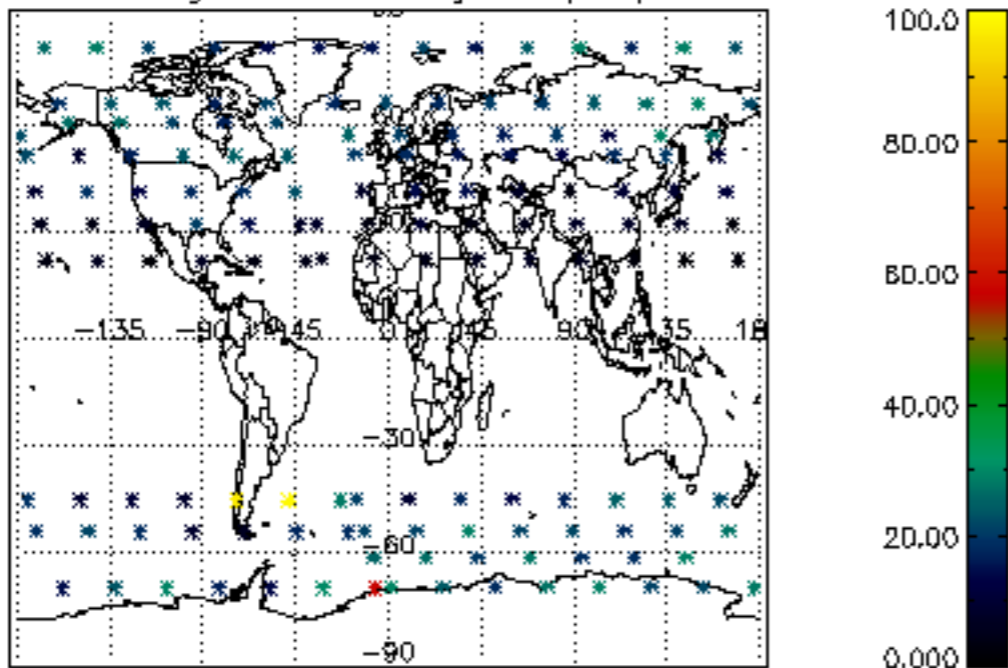
Percentage of flagged data per NO3 profile



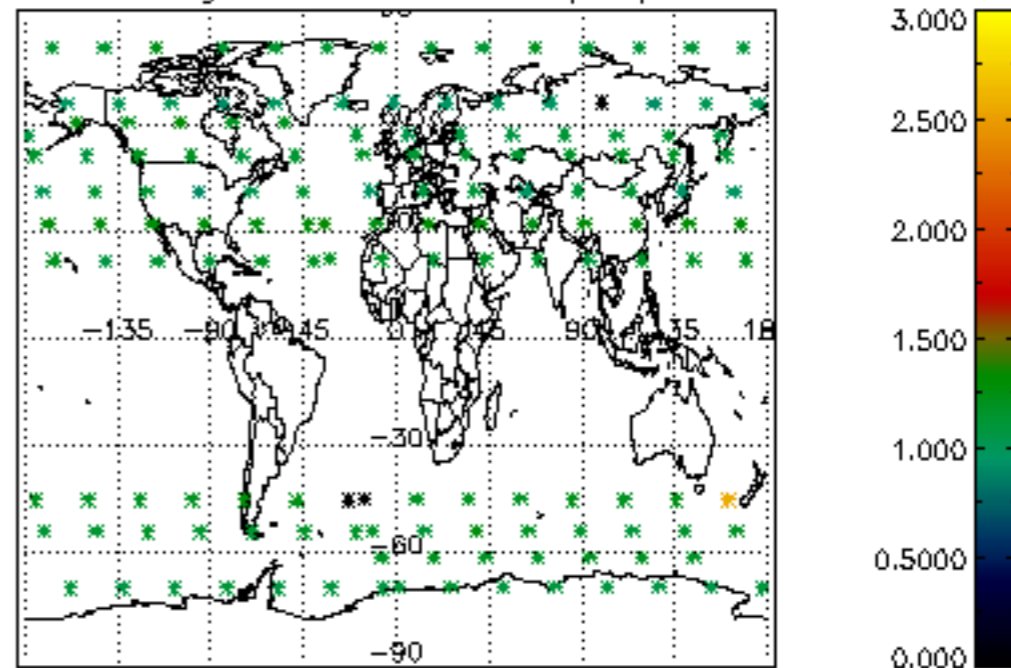




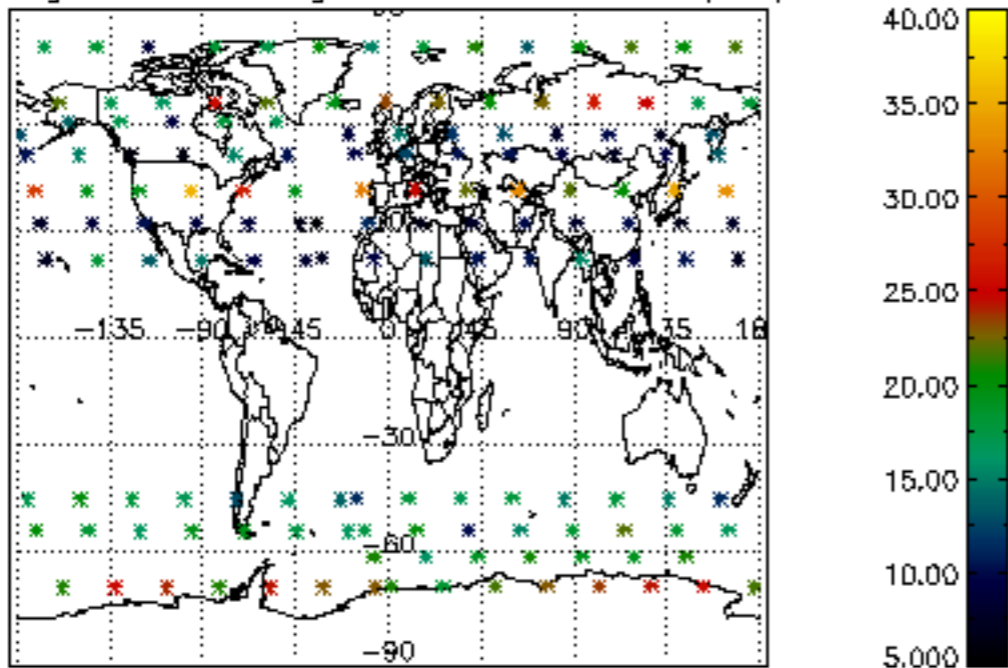
Percentage of cosmic ray hits per profile



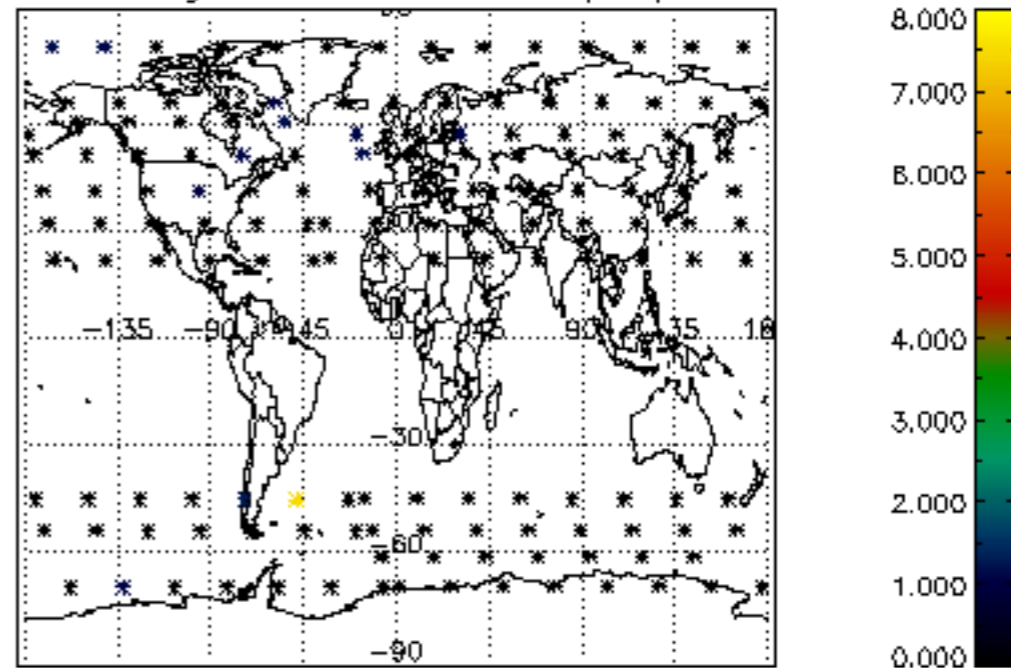
Percentage of datation errors per profile



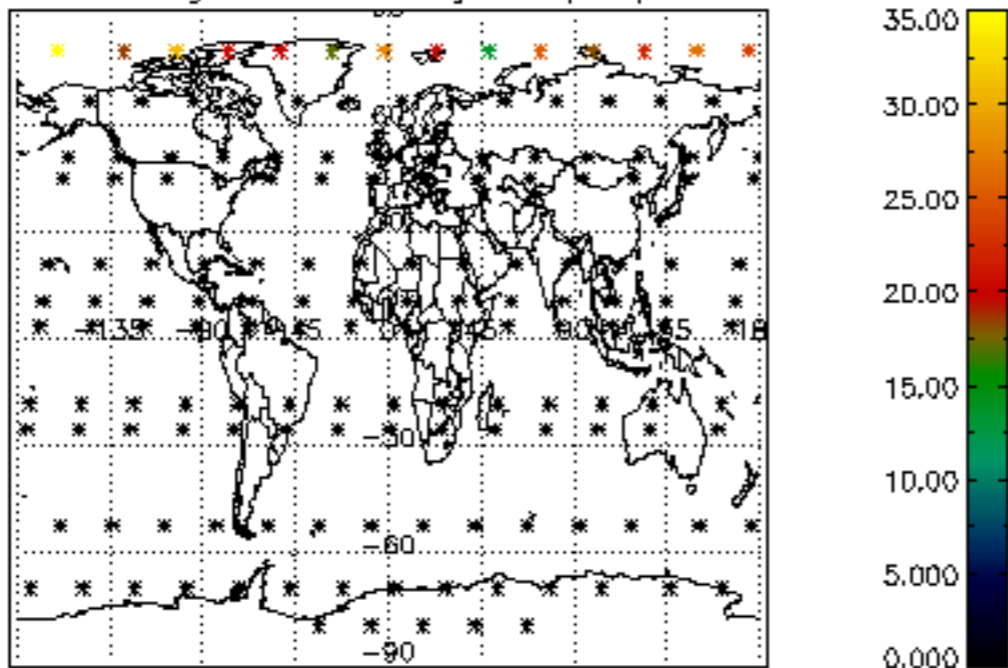
Percentage of star falling outside central band per profile



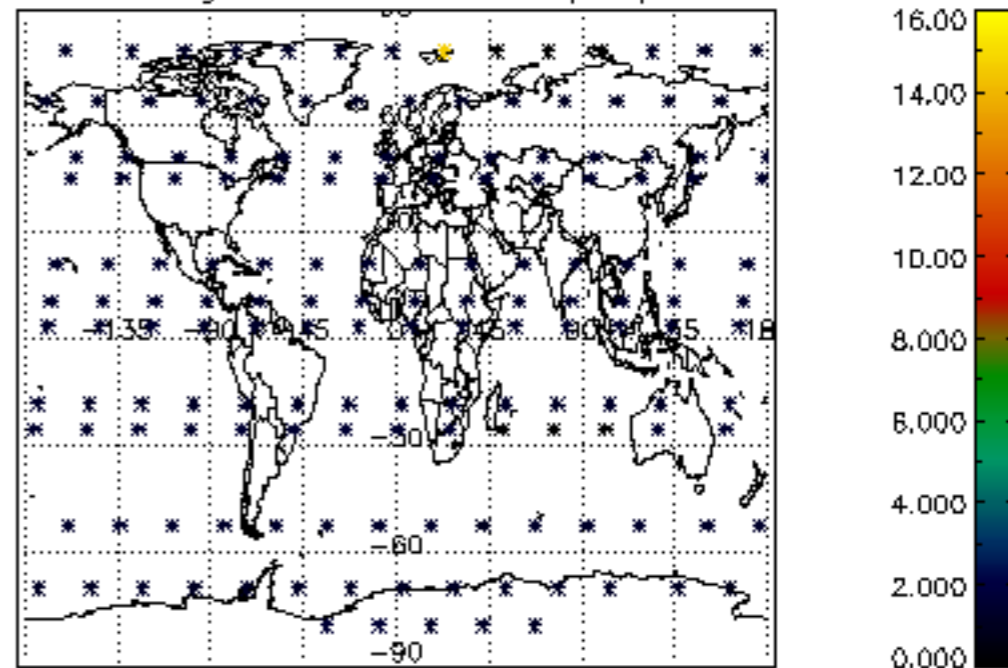
Percentage of saturation errors per profile



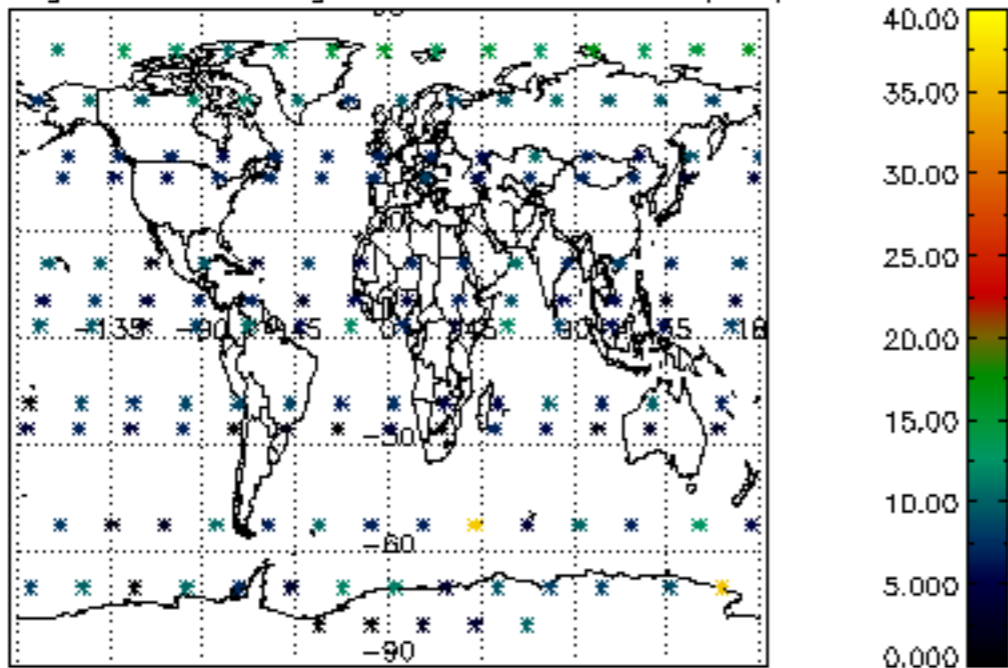
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

