

GOMOS Level 2 Daily Report

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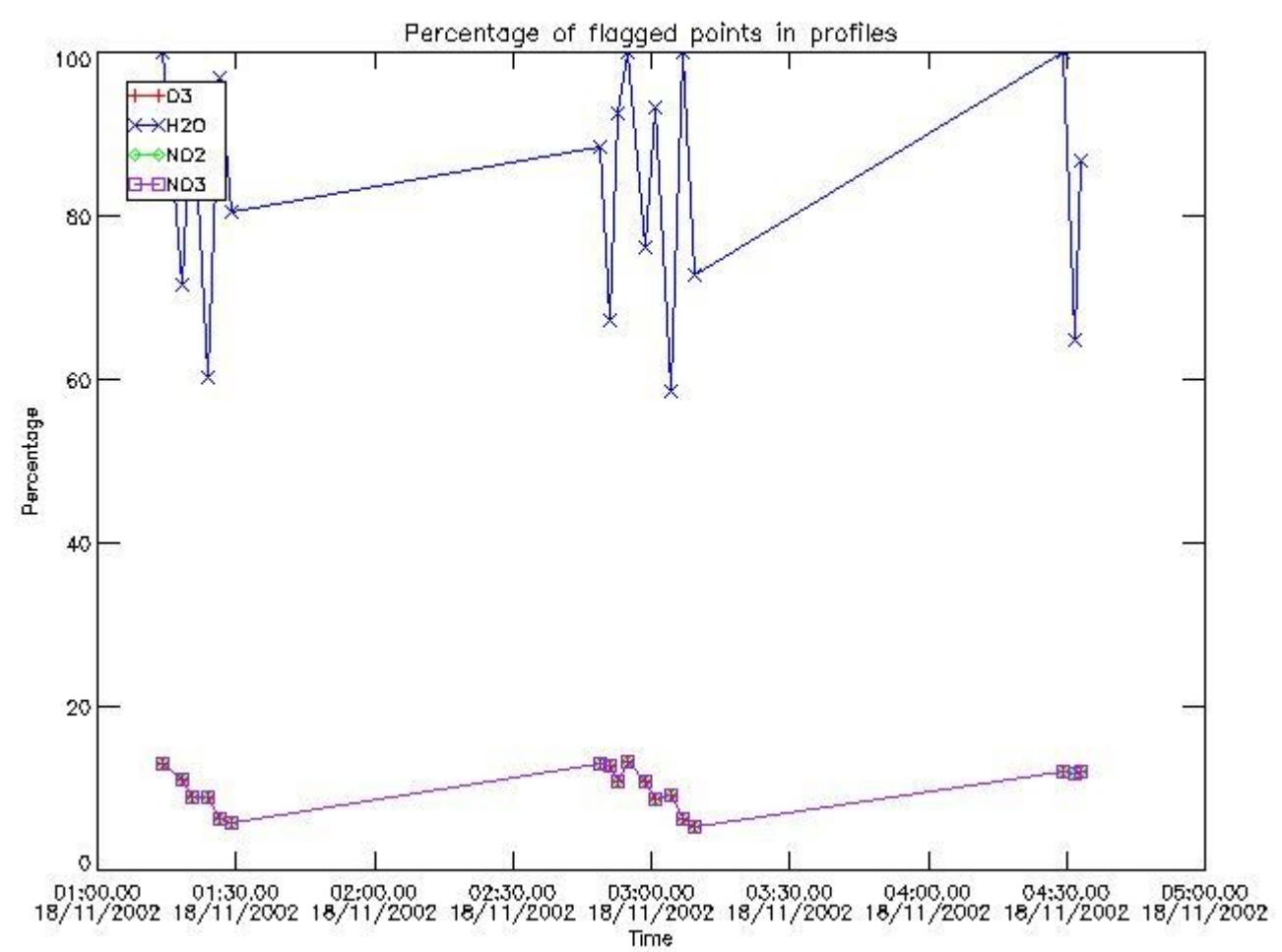
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43	GOM_NL__2PRFIN20021118_031253_000000382011_00190_03751_1645.N1	18-NOV-2002 03:12:53	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	3751	No
44	GOM_NL__2PRFIN20021118_031709_000001102011_00190_03751_1646.N1	18-NOV-2002 03:17:09	Straylight	110.00	47	2Bet CMa	1.9760	28000.	220	3751	No
45	GOM_NL__2PRFIN20021118_032005_000000552011_00190_03751_1647.N1	18-NOV-2002 03:20:05	Straylight	54.500	165	34Gam Eri	2.9500	3200.0	109	3751	No
46	GOM_NL__2PRFIN20021118_032227_000000952011_00190_03751_1648.N1	18-NOV-2002 03:22:27	Tw_i_and_stray	95.000	56	53Kap Ori	2.0650	30000.	190	3751	No
47	GOM_NL__2PRFIN20021118_032537_000000492011_00190_03751_1649.N1	18-NOV-2002 03:25:37	Tw_i_and_stray	49.000	94	92Alp Cet	2.5260	3100.0	98	3751	No
48	GOM_NL__2PRFIN20021118_032724_000000942011_00190_03751_1650.N1	18-NOV-2002 03:27:24	Bright	94.000	72	34Del Ori	2.2500	30000.	188	3751	No
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51	GOM_NL__2PRFIN20021118_033427_000000382011_00190_03751_1653.N1	18-NOV-2002 03:34:27	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	3751	No
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56	GOM_NL__2PRFIN20021118_034537_000000592011_00190_03751_1658.N1	18-NOV-2002 03:45:37	Bright	58.500	42	34Bet Aur	1.9000	10200.	117	3751	No
57	GOM_NL__2PRFIN20021118_034946_000000382011_00190_03751_1659.N1	18-NOV-2002 03:49:46	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	3751	No
58	GOM_NL__2PRFIN20021118_035411_000000392011_00190_03751_1660.N1	18-NOV-2002 03:54:11	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	3751	No
59	GOM_NL__2PRFIN20021118_035612_000000382011_00190_03751_1661.N1	18-NOV-2002 03:56:12	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	3751	No
60	GOM_NL__2PRFIN20021118_035857_000000432011_00190_03751_1662.N1	18-NOV-2002 03:58:57	Bright	43.000	82	48Bet UMa	2.3650	10600.	86	3751	No
61	GOM_NL__2PRFIN20021118_040128_000000362011_00190_03751_1663.N1	18-NOV-2002 04:01:28	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	3751	No
62	GOM_NL__2PRFIN20021118_040304_000000482011_00190_03751_1664.N1	18-NOV-2002 04:03:04	Bright	47.500	174	52Psi UMa	3.0040	4400.0	95	3751	No
63	GOM_NL__2PRFIN20021118_040456_000000392011_00190_03751_1665.N1	18-NOV-2002 04:04:56	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	3751	No
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65	GOM_NL__2PRFIN20021118_040936_000000362011_00190_03751_1667.N1	18-NOV-2002 04:09:36	Bright	35.500	3	16Alp Boo	-0.050000	4250.0	71	3751	No
66	GOM_NL__2PRFIN20021118_041156_000000722011_00190_03751_1668.N1	18-NOV-2002 04:11:56	Bright	72.000	96	68Del Leo	2.5600	9300.0	144	3751	No
67	GOM_NL__2PRFIN20021118_041405_000001172011_00190_03751_1669.N1	18-NOV-2002 04:14:05	Tw_i_and_stray	117.00	166	17Eps Leo	2.9800	6000.0	234	3751	No
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69	GOM_NL__2PRFIN20021118_042249_000000482011_00190_03751_1671.N1	18-NOV-2002 04:22:49	Twilight	47.500	106	9Bet Crv	2.6480	5600.0	95	3751	No
70	GOM_NL__2PRFIN20021118_042923_000000422011_00190_03751_1672.N1	18-NOV-2002 04:29:23	Dark	42.000	64	Gam Cen	2.2000	10600.	84	3751	No
71	GOM_NL__2PRFIN20021118_043140_000000432011_00190_03751_1673.N1	18-NOV-2002 04:31:40	Dark	43.000	26	Gam Cru	1.6240	2900.0	86	3751	No
72	GOM_NL__2PRFIN20021118_043315_000000422011_00191_03752_1674.N1	18-NOV-2002 04:33:15	Dark	42.000	12	Alp1Cru	0.77500	30000.	84	3752	No

3. Quality information per product

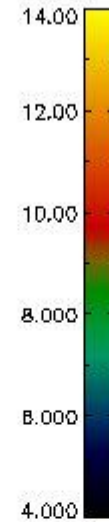
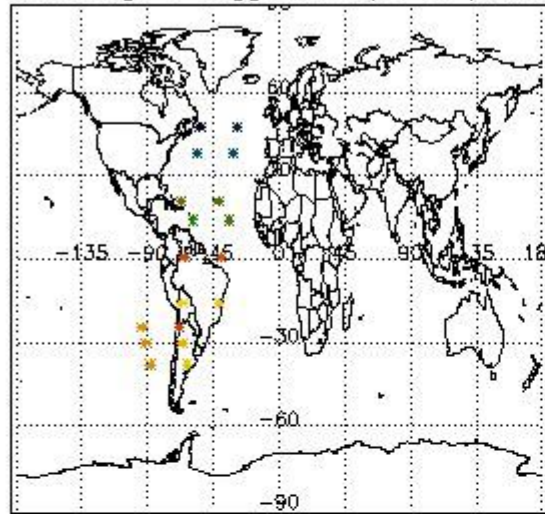
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

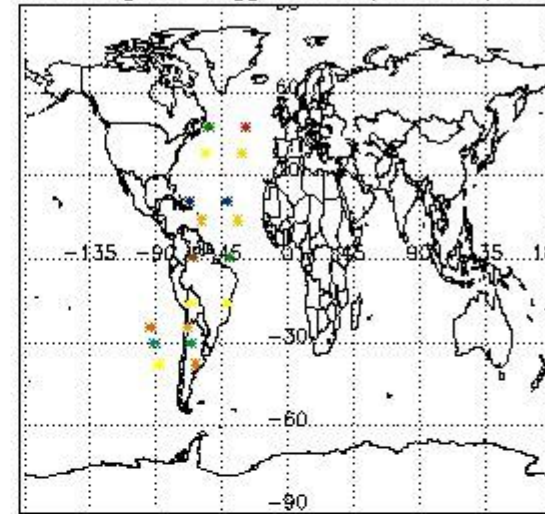


3.2 Plot quality information per product (world map)

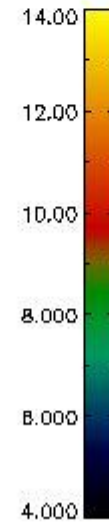
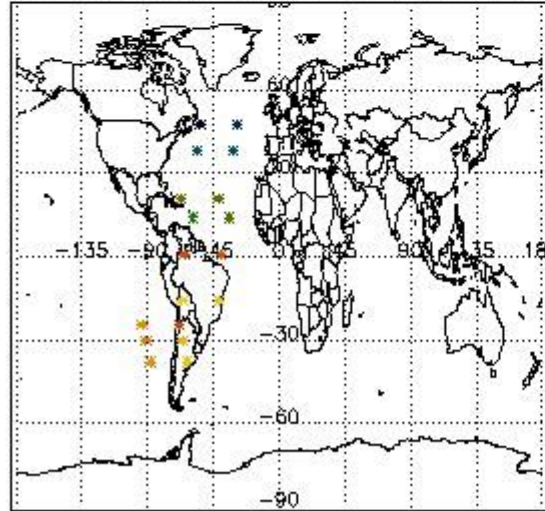
Percentage of flagged data per O3 profile



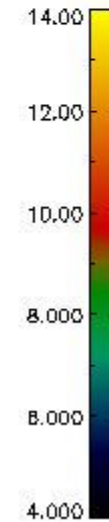
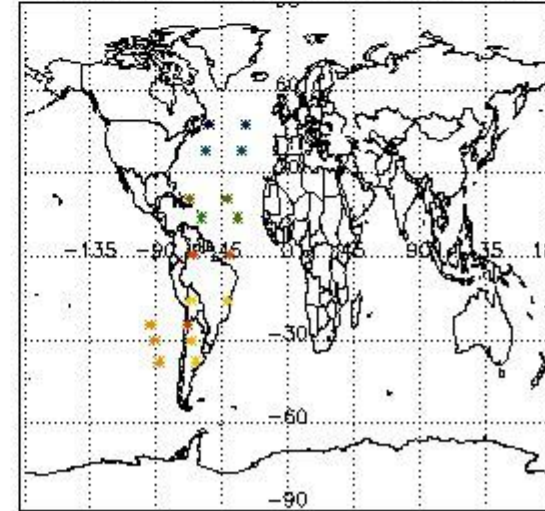
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

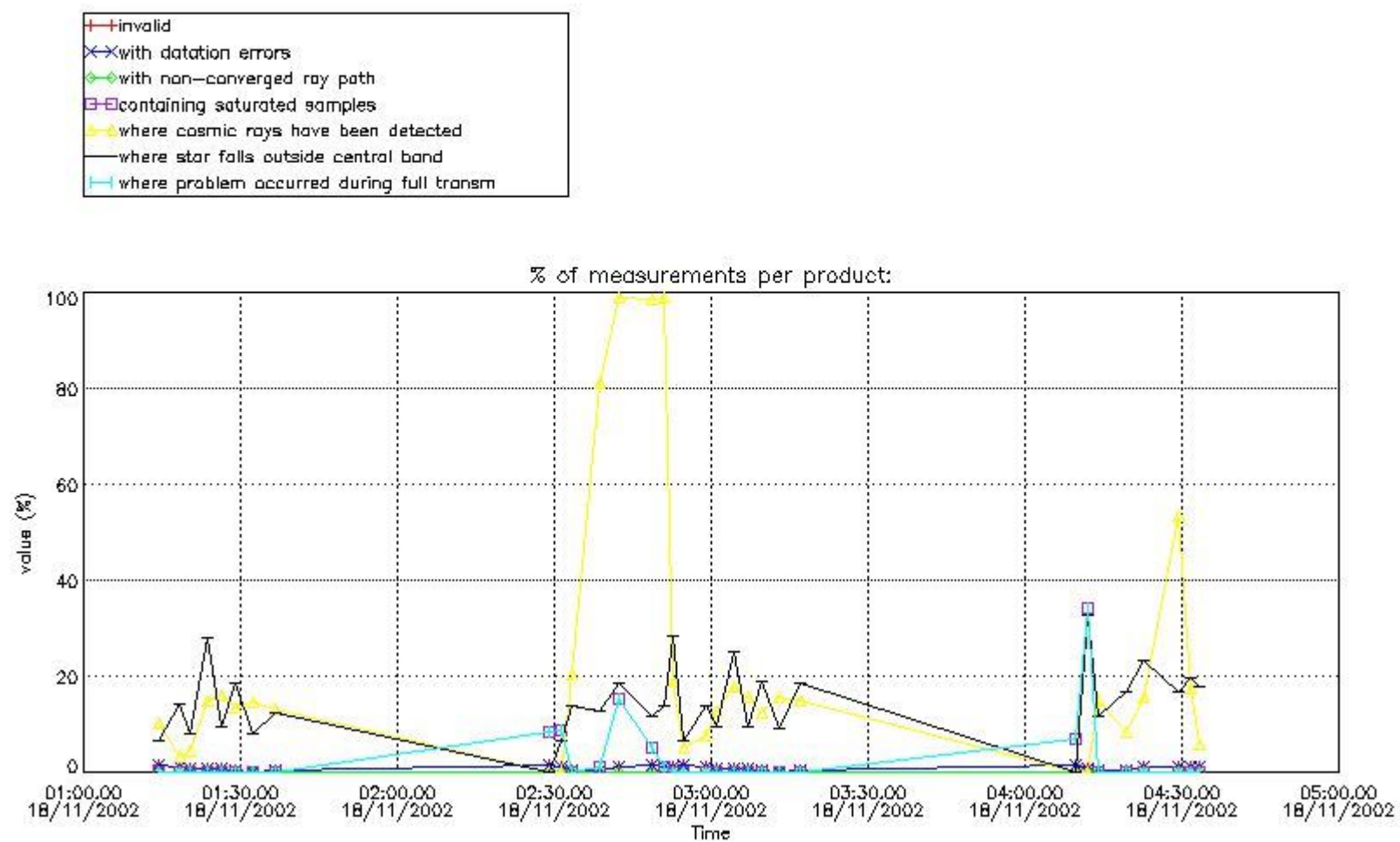


4. Level 1 quality information per product

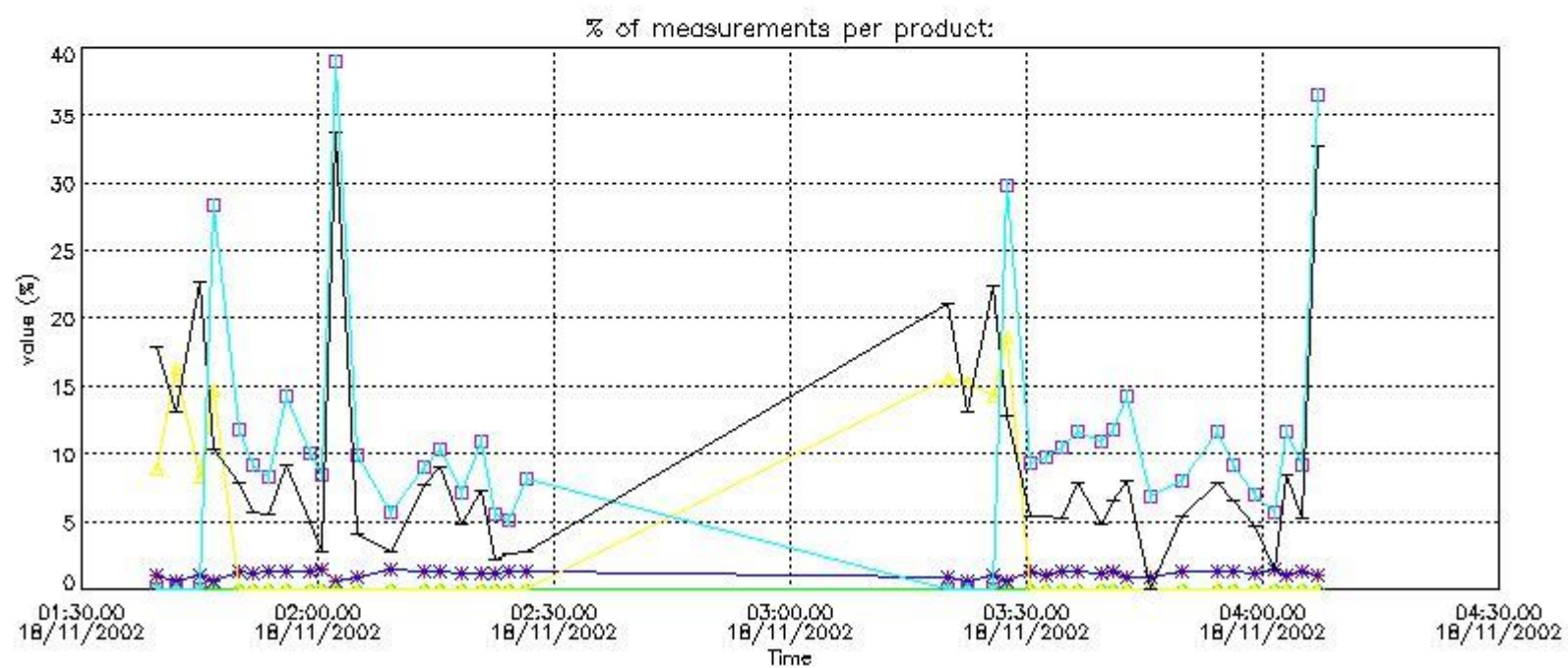
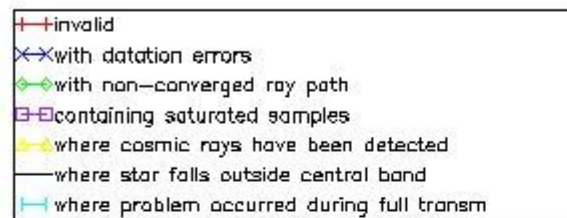
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



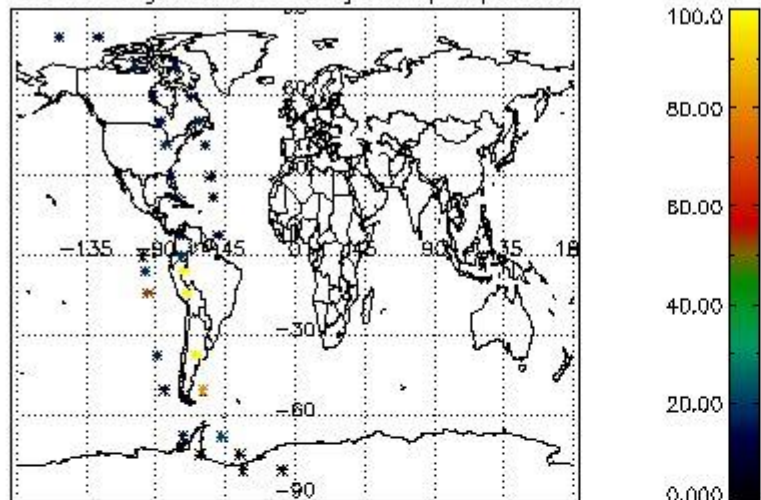
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



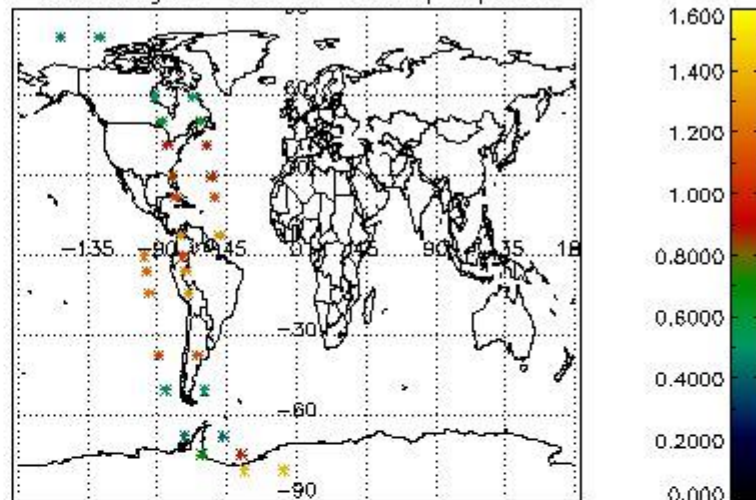
4.2 Plot quality information per product coming from level 1b processing (world map)

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

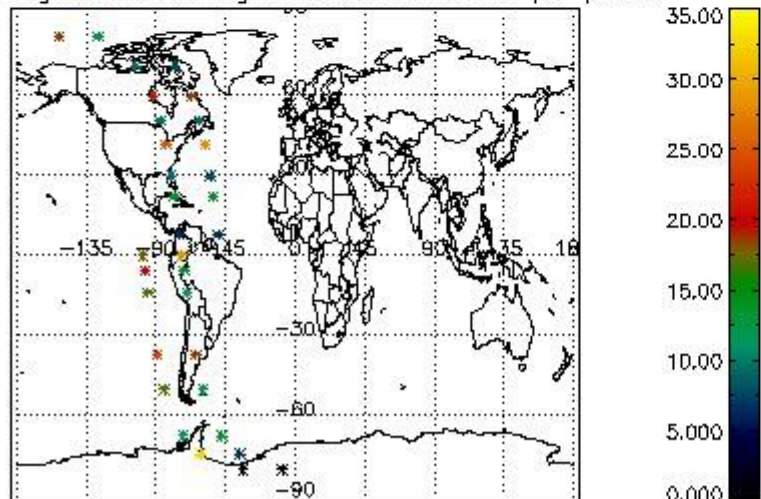
Percentage of cosmic ray hits per profile



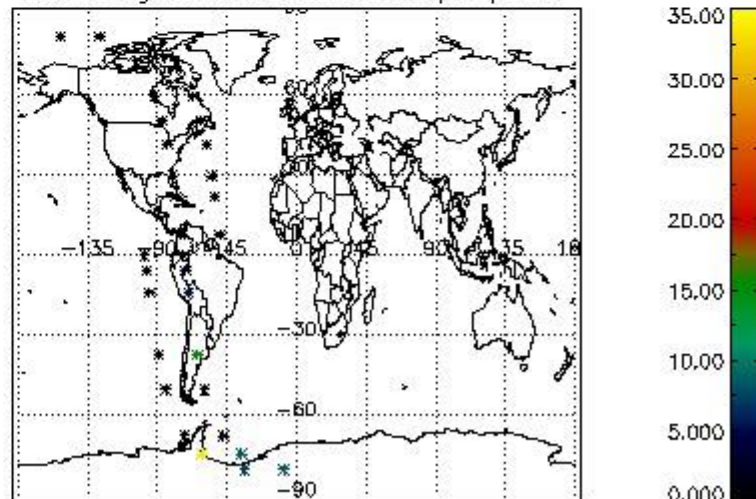
Percentage of datation errors per profile



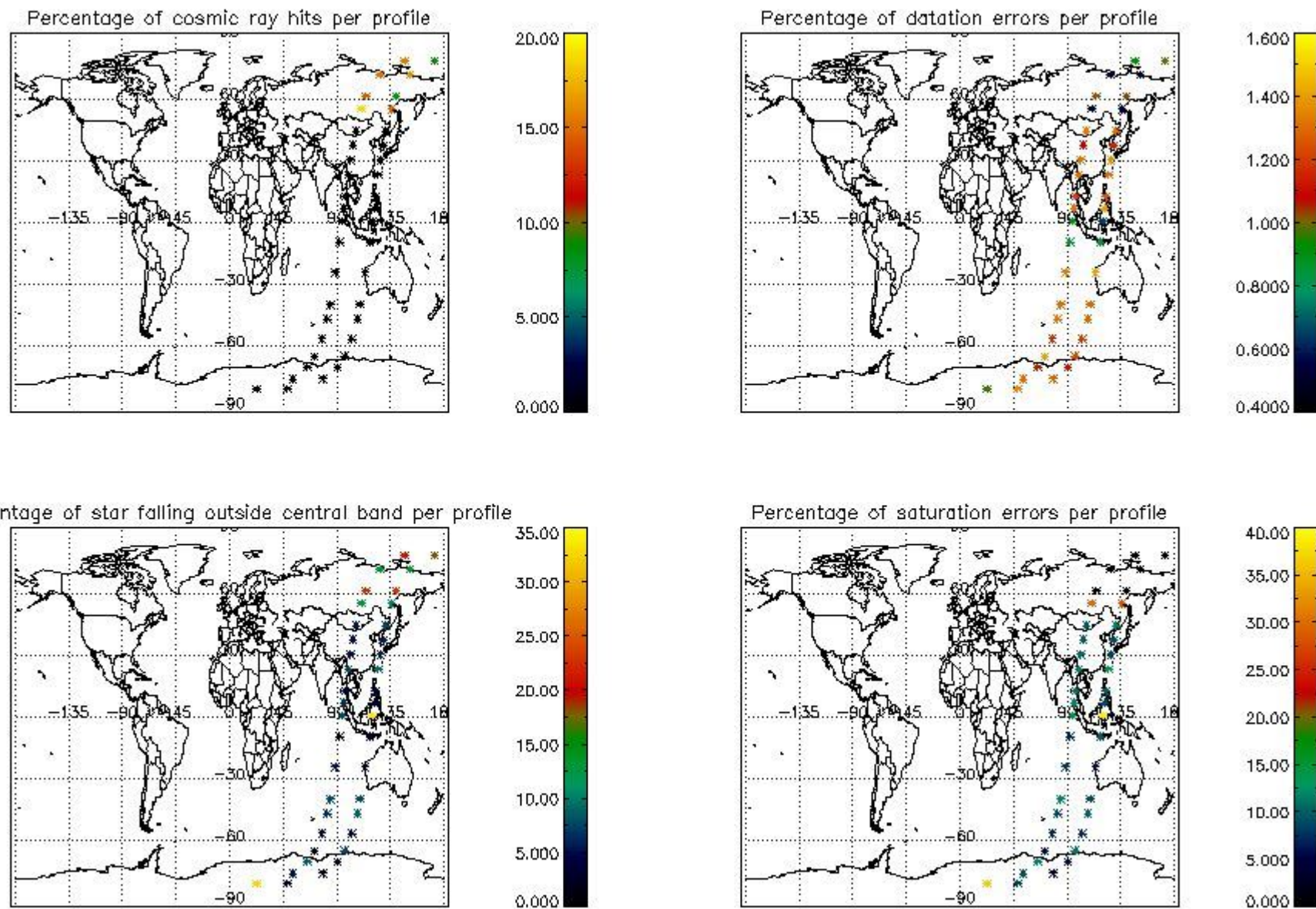
Percentage of star falling outside central band per profile



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

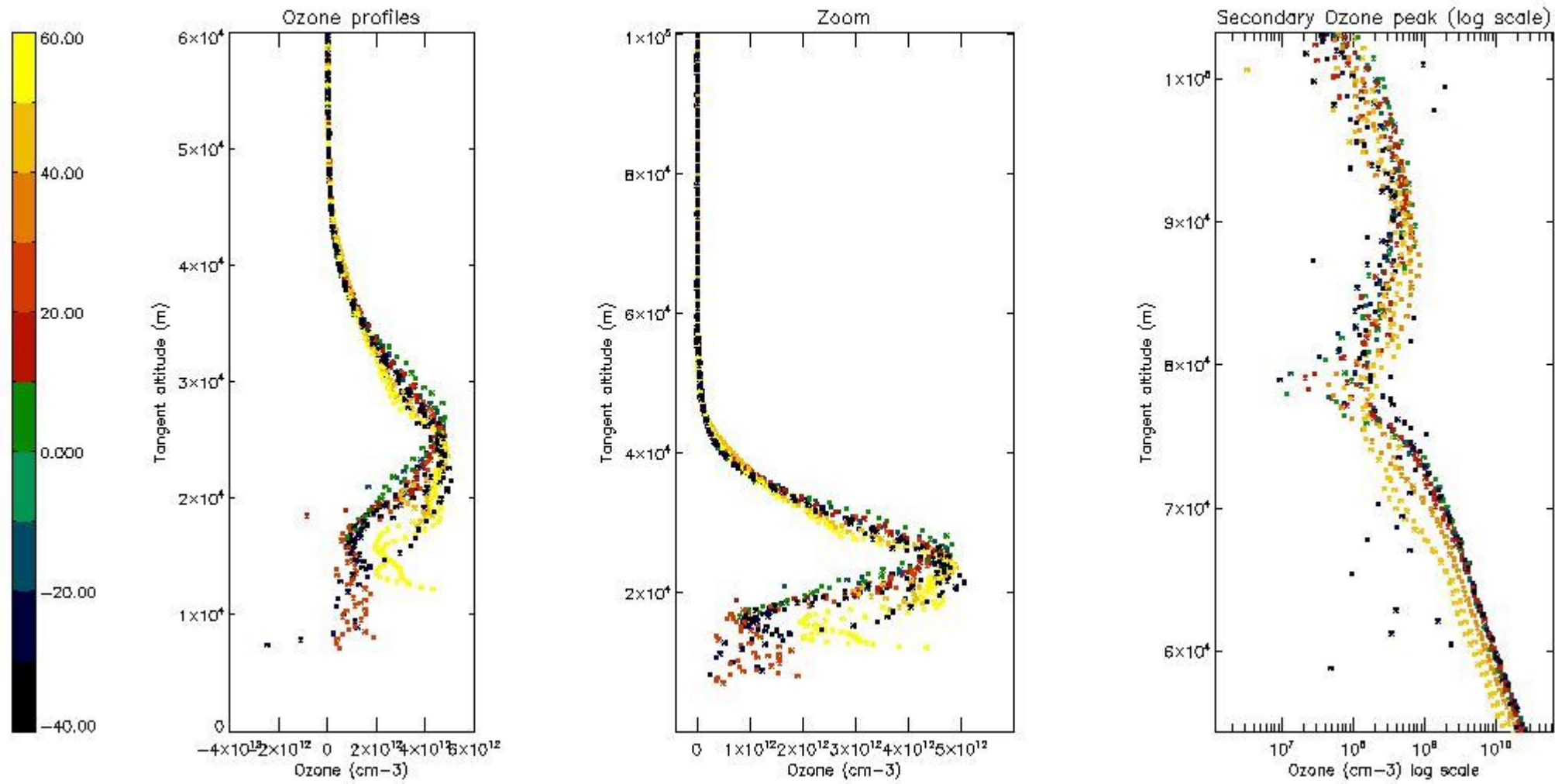
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	17

STD < 10	15
STD < 5	12

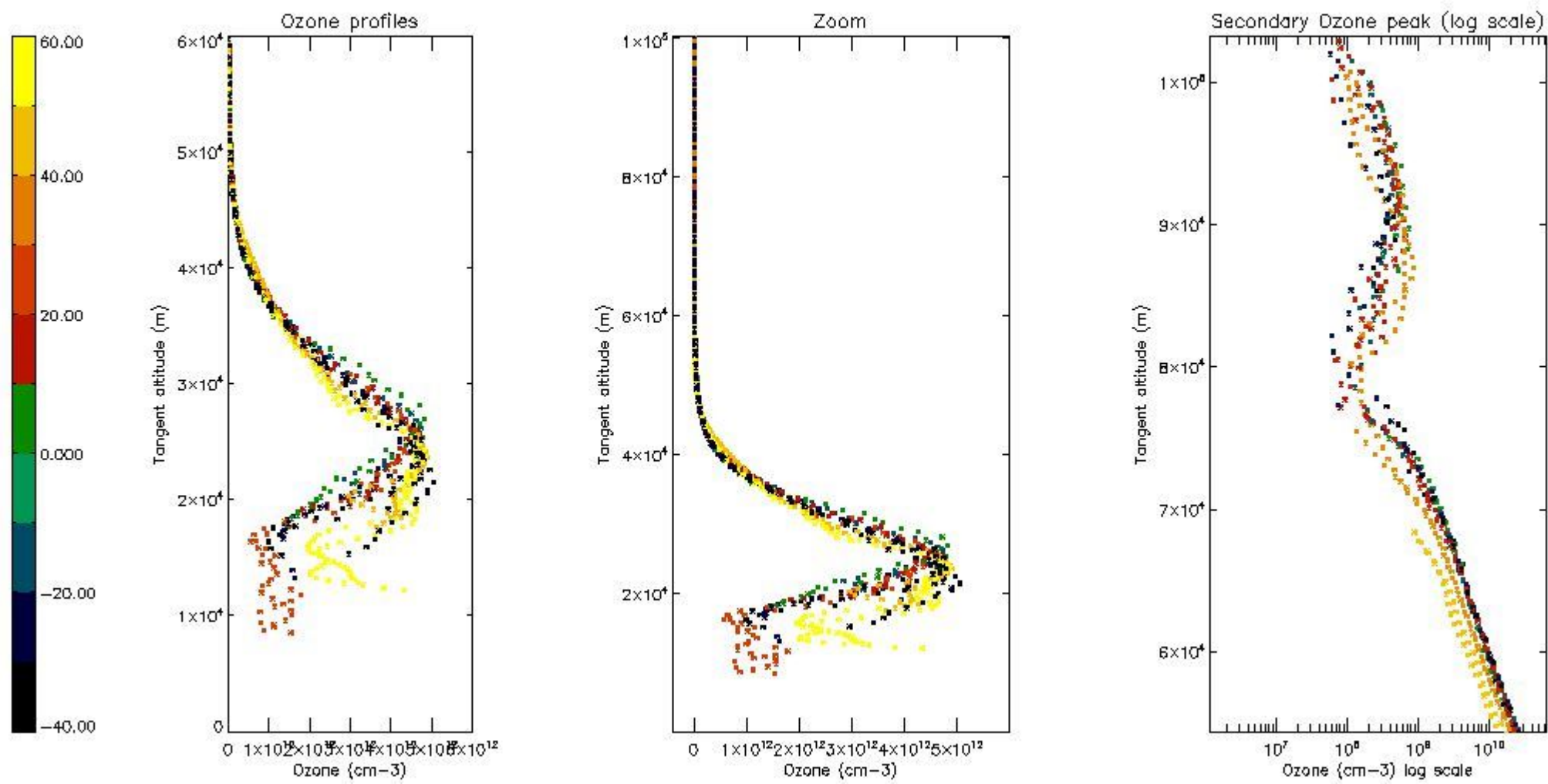
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



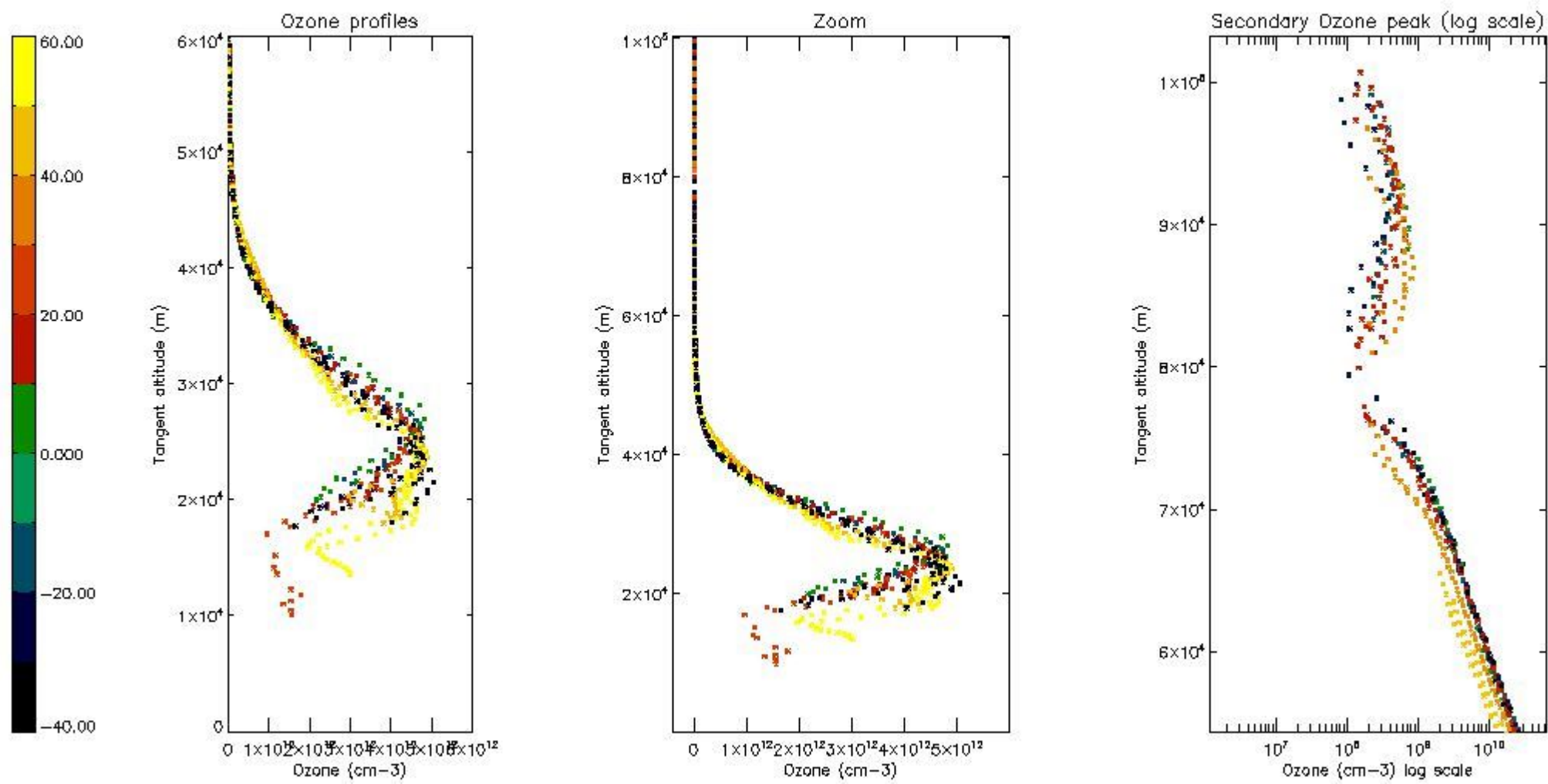
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



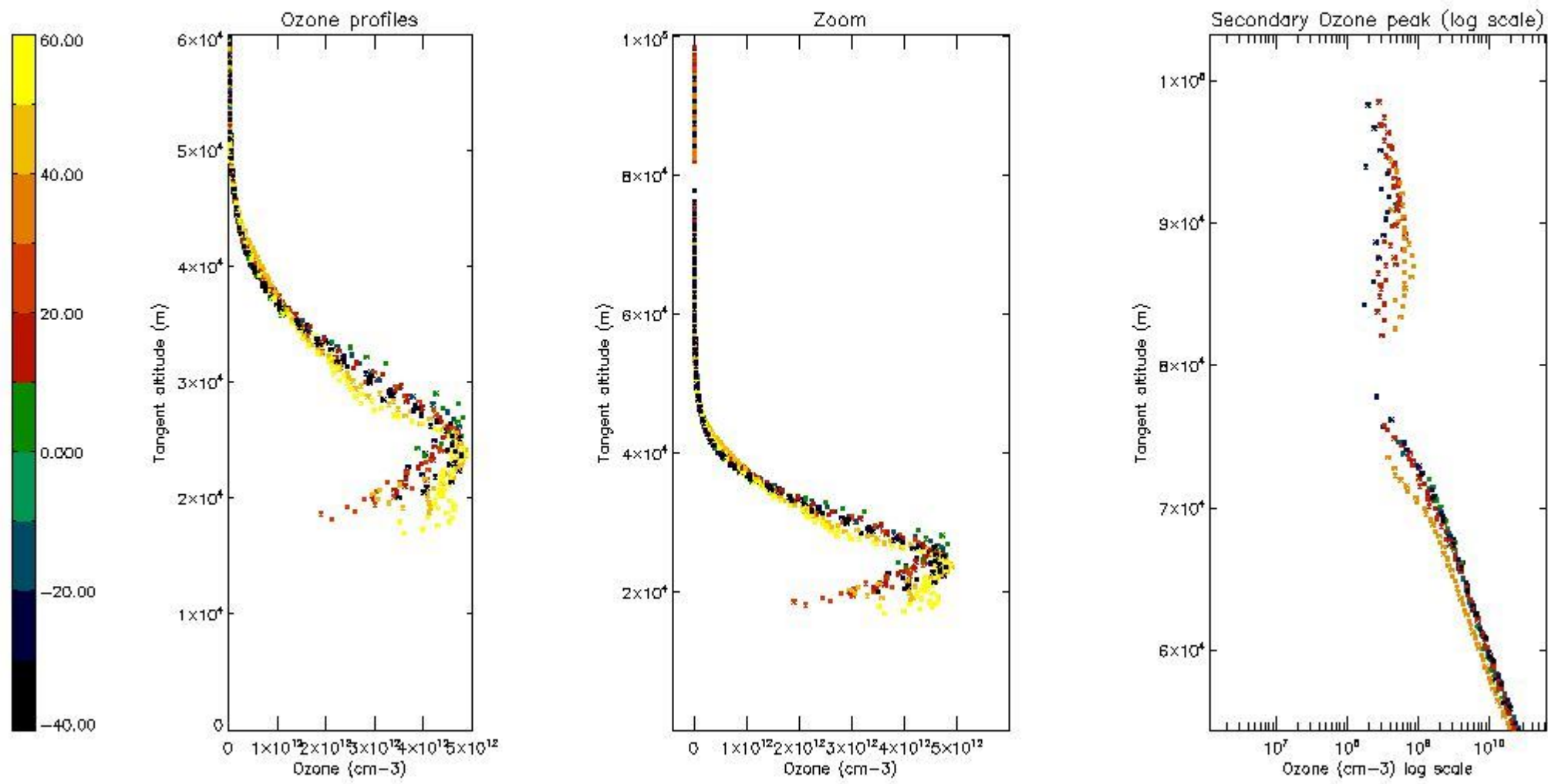
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



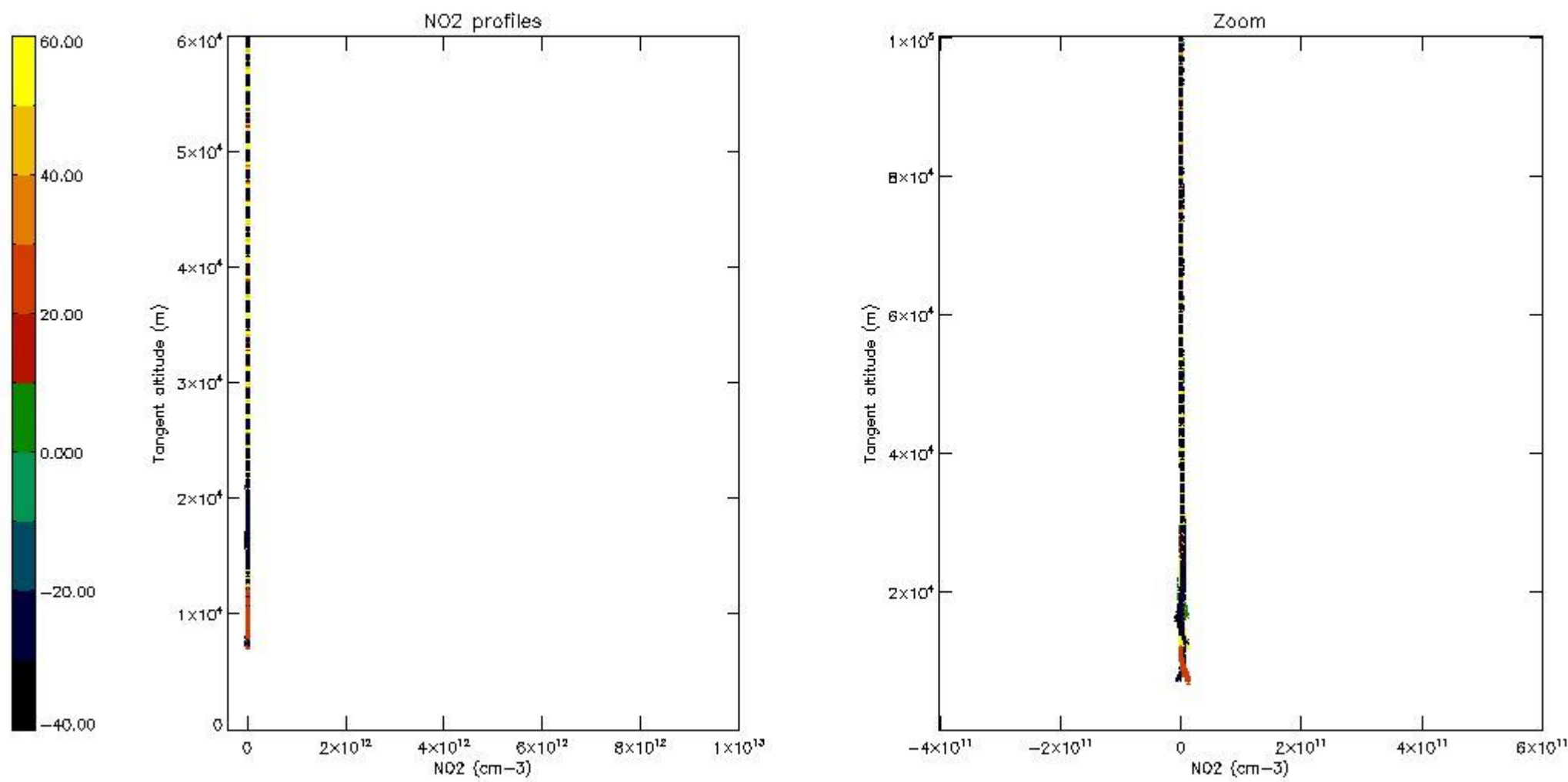
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



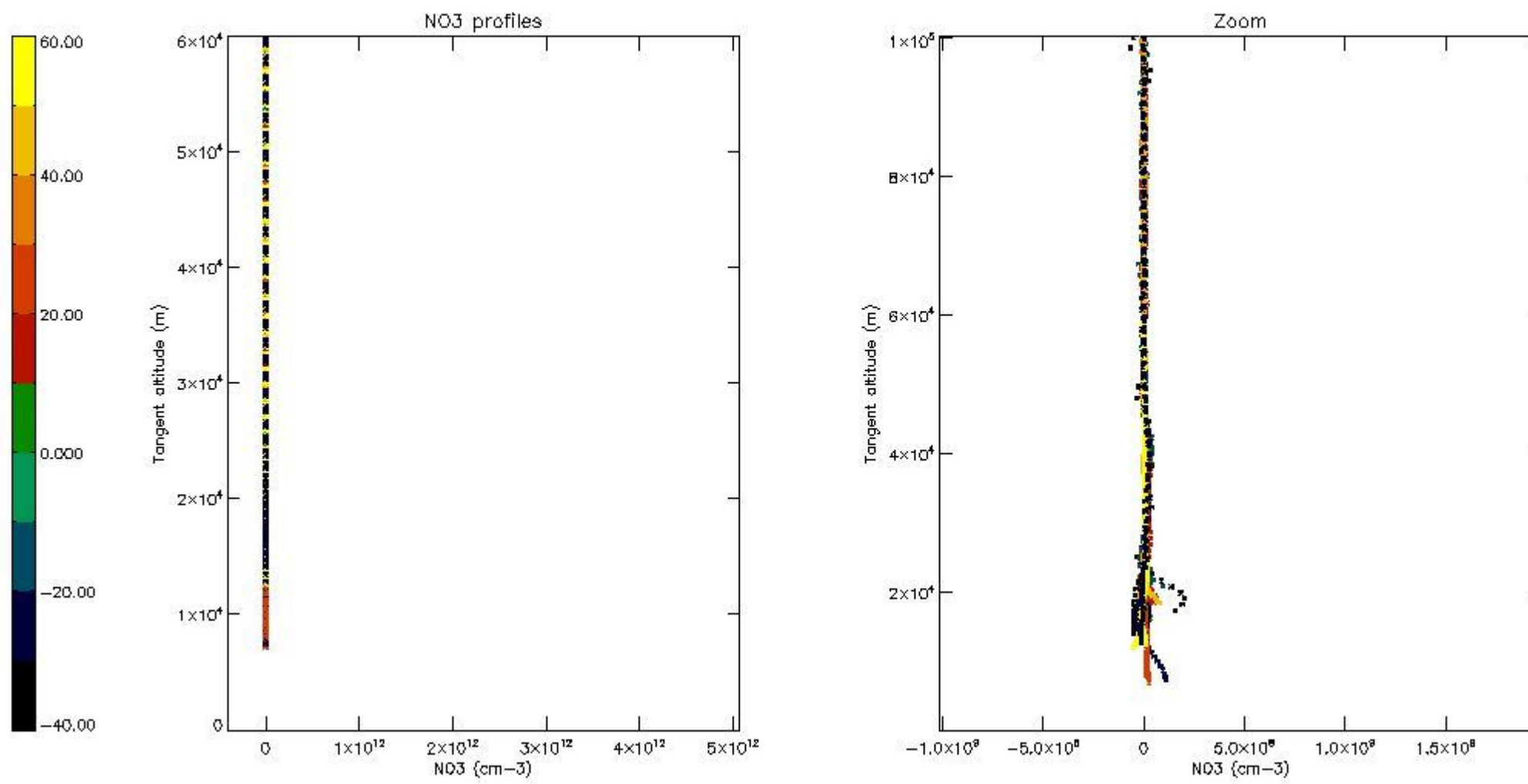
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



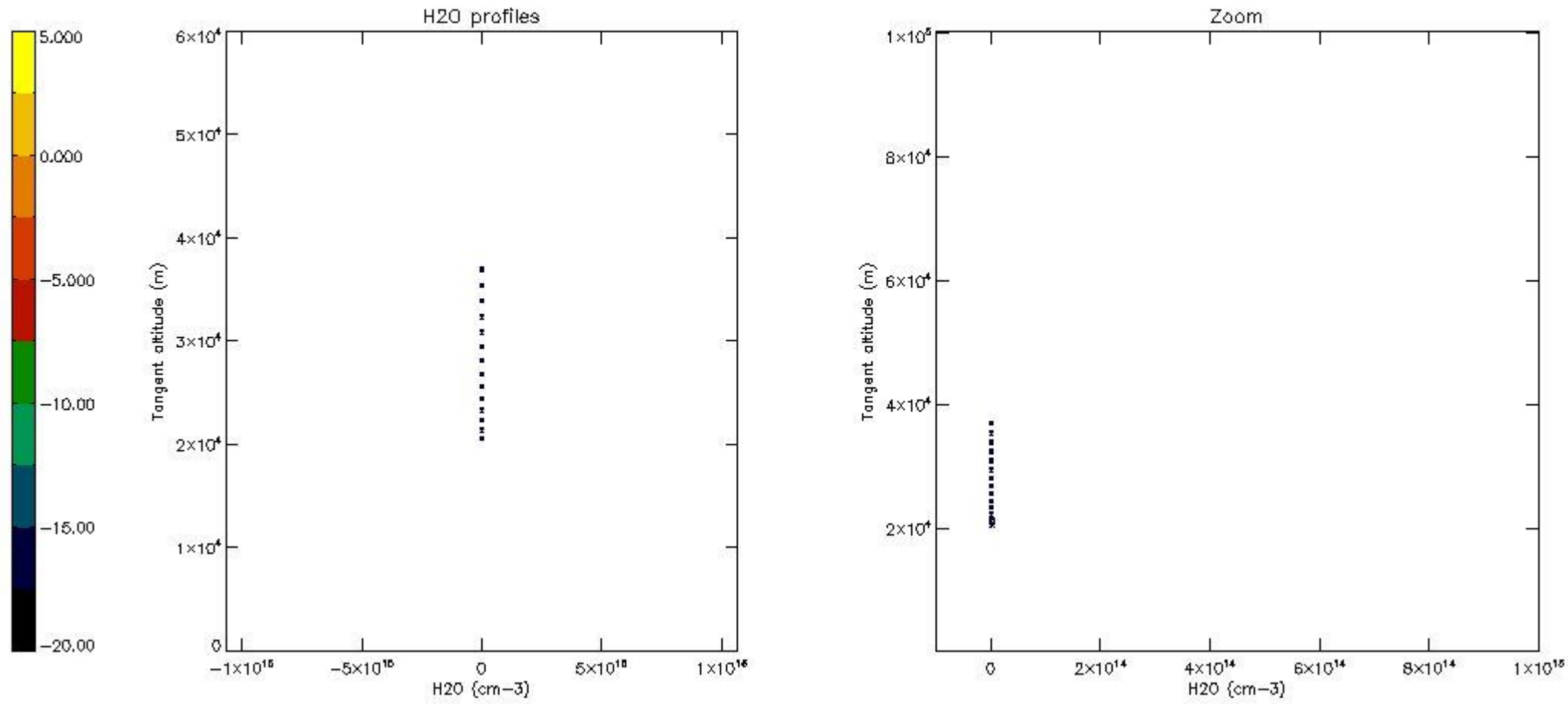
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



5.8 Plot H2O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)

The colorbar represents the latitude.



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

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	18-NOV-2002 01:14:13
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	18-NOV-2002 01:14:13
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	18-NOV-2002 01:14:13

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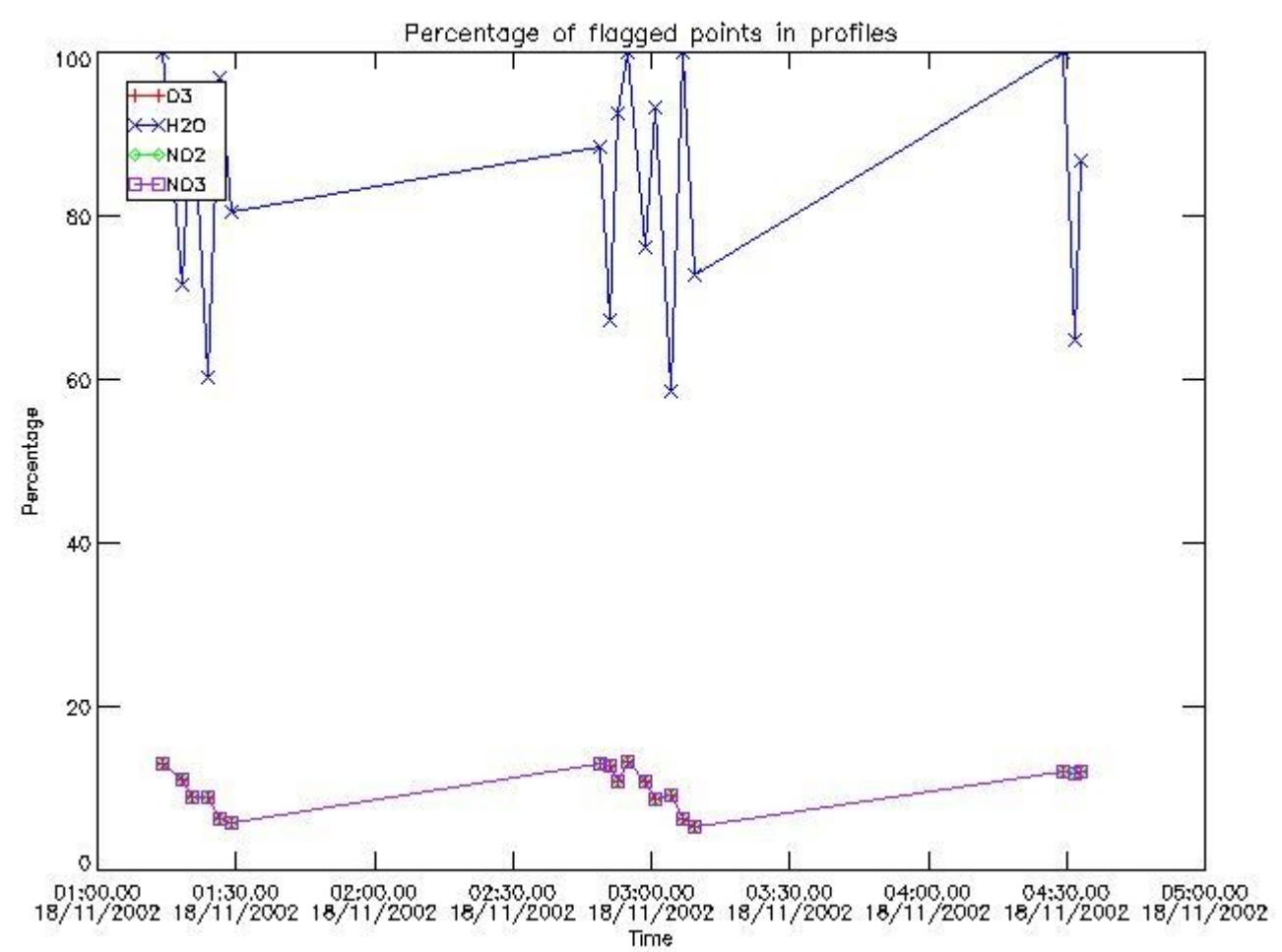
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62	GOM_NL__2PRFIN20021118_040304_000000482011_00190_03751_1664.N1	18-NOV-2002 04:03:04	Bright	47.500	174	52Psi UMa	3.0040	4400.0	95	3751	No
63	GOM_NL__2PRFIN20021118_040456_000000392011_00190_03751_1665.N1	18-NOV-2002 04:04:56	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	3751	No
64	GOM_NL__2PRFIN20021118_040705_000000522011_00190_03751_1666.N1	18-NOV-2002 04:07:05	Bright	52.000	83		2.3780	11000.	104	3751	No
65	GOM_NL__2PRFIN20021118_040936_000000362011_00190_03751_1667.N1	18-NOV-2002 04:09:36	Bright	35.500	3	16Alp Boo	-0.050000	4250.0	71	3751	No
66	GOM_NL__2PRFIN20021118_041156_000000722011_00190_03751_1668.N1	18-NOV-2002 04:11:56	Bright	72.000	96	68Del Leo	2.5600	9300.0	144	3751	No
67	GOM_NL__2PRFIN20021118_041405_000001172011_00190_03751_1669.N1	18-NOV-2002 04:14:05	Tw_i_and_stray	117.00	166	17Eps Leo	2.9800	6000.0	234	3751	No
68	GOM_NL__2PRFIN20021118_041910_000001022011_00190_03751_1670.N1	18-NOV-2002 04:19:10	Straylight	102.00	22	32Alp Leo	1.3600	15200.	204	3751	No
69	GOM_NL__2PRFIN20021118_042249_000000482011_00190_03751_1671.N1	18-NOV-2002 04:22:49	Twilight	47.500	106	9Bet Crv	2.6480	5600.0	95	3751	No
70	GOM_NL__2PRFIN20021118_042923_000000422011_00190_03751_1672.N1	18-NOV-2002 04:29:23	Dark	42.000	64	Gam Cen	2.2000	10600.	84	3751	No
71	GOM_NL__2PRFIN20021118_043140_000000432011_00190_03751_1673.N1	18-NOV-2002 04:31:40	Dark	43.000	26	Gam Cru	1.6240	2900.0	86	3751	No
72	GOM_NL__2PRFIN20021118_043315_000000422011_00191_03752_1674.N1	18-NOV-2002 04:33:15	Dark	42.000	12	Alp1Cru	0.77500	30000.	84	3752	No

3. Quality information per product

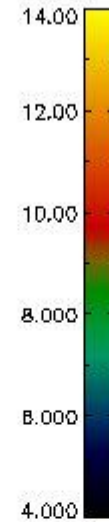
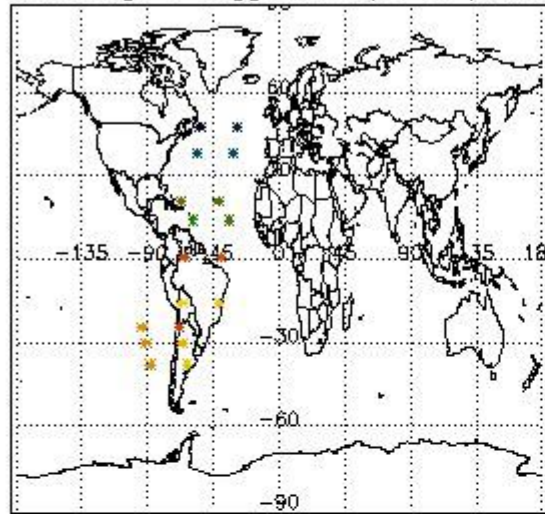
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

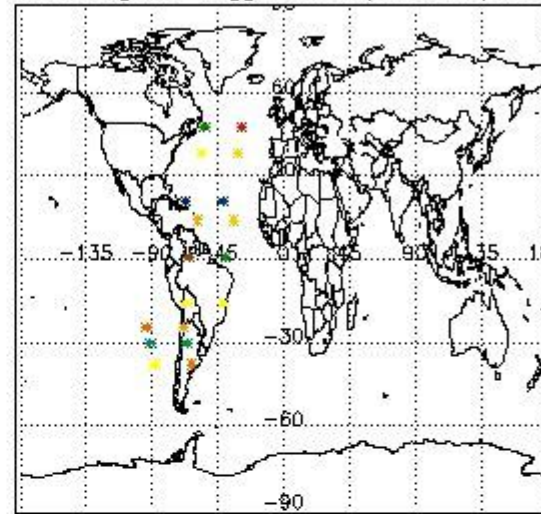


3.2 Plot quality information per product (world map)

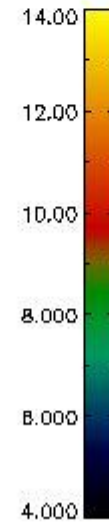
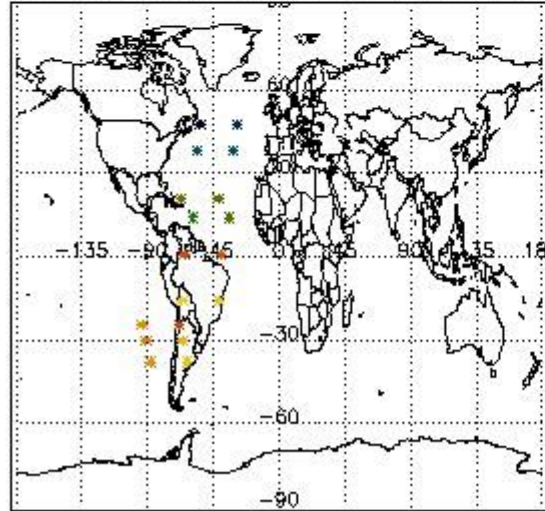
Percentage of flagged data per O3 profile



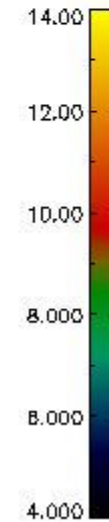
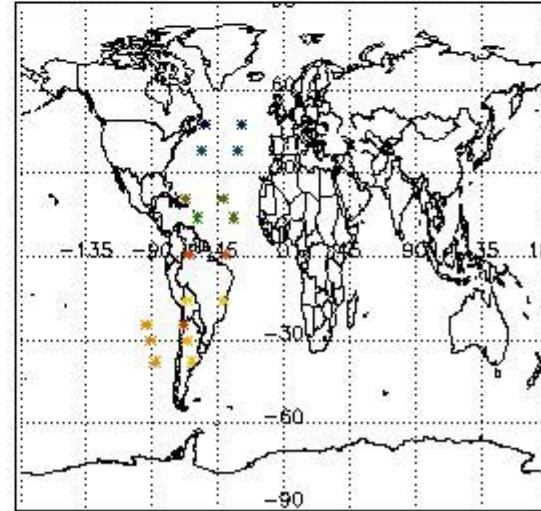
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

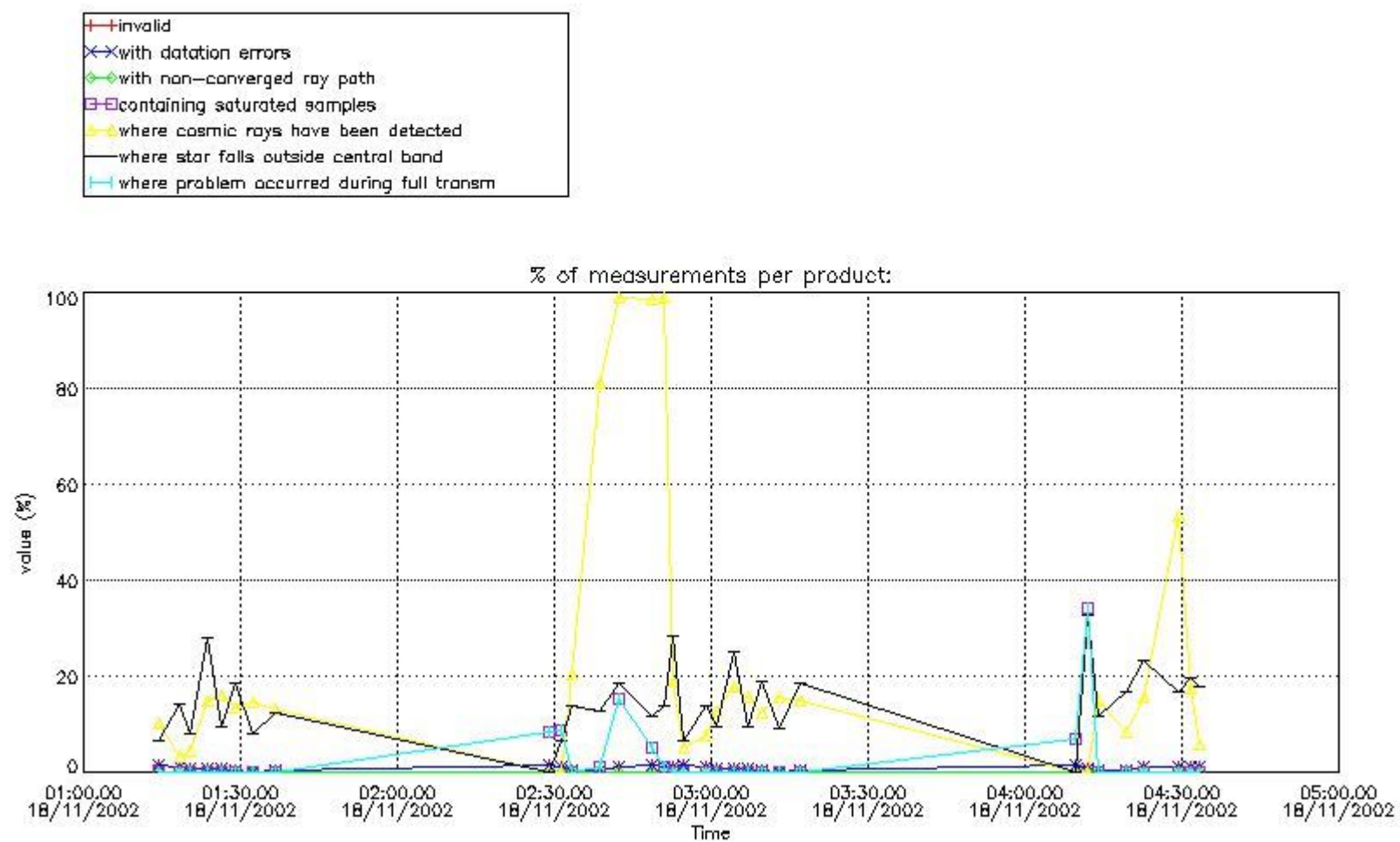


4. Level 1 quality information per product

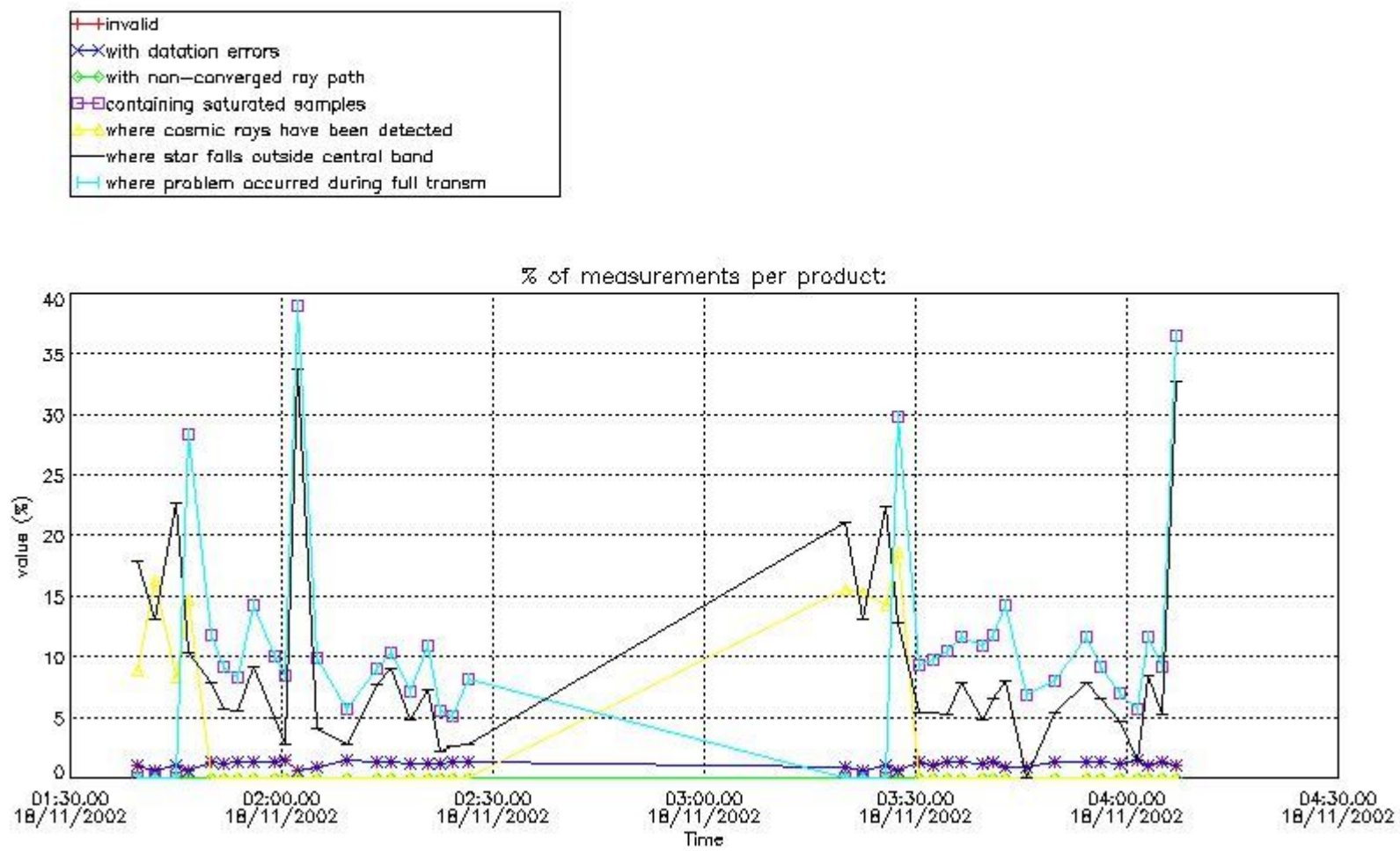
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



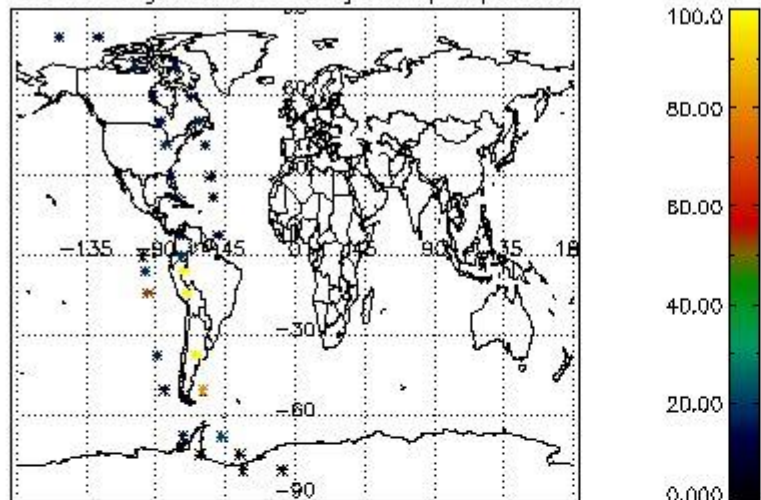
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



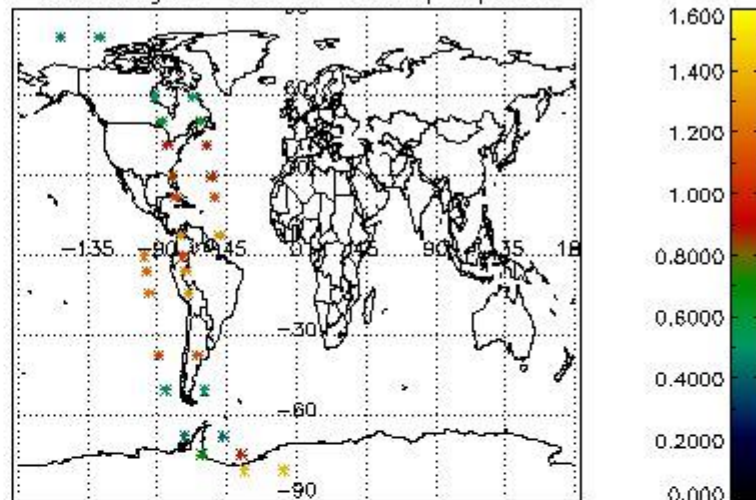
4.2 Plot quality information per product coming from level 1b processing (world map)

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

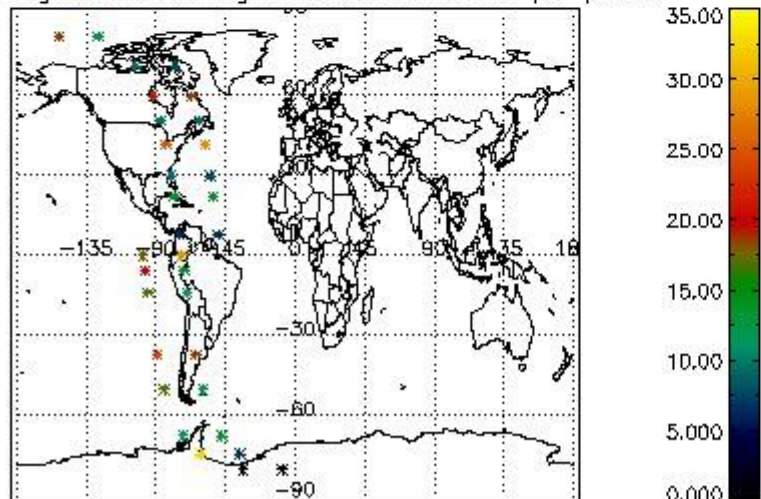
Percentage of cosmic ray hits per profile



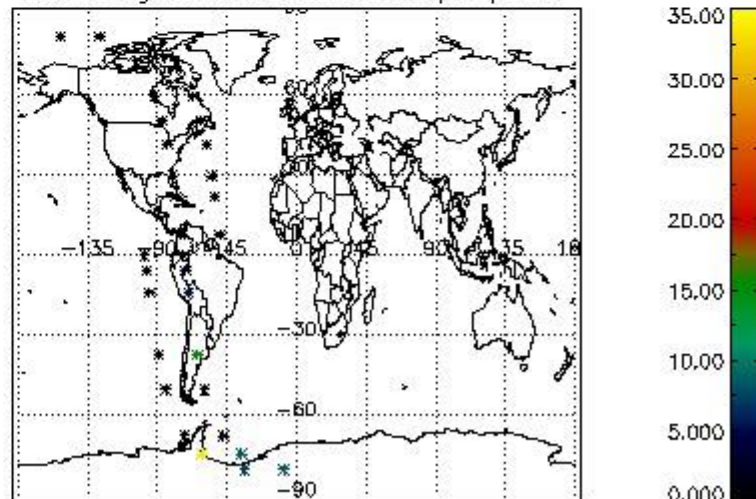
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

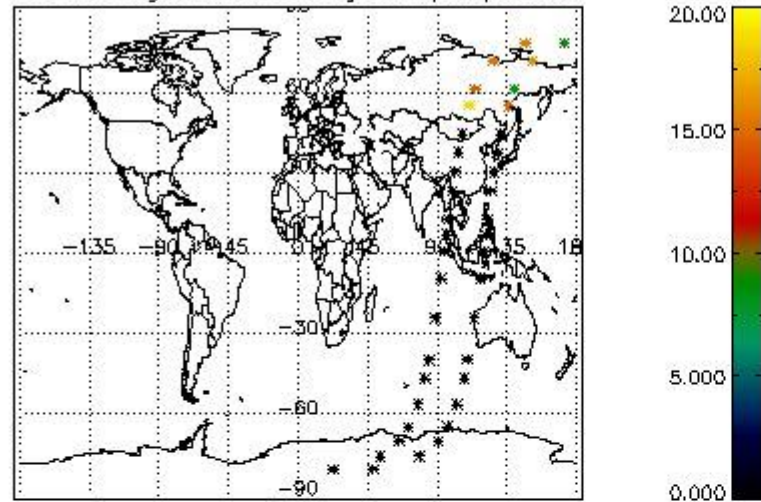


Percentage of saturation errors per profile

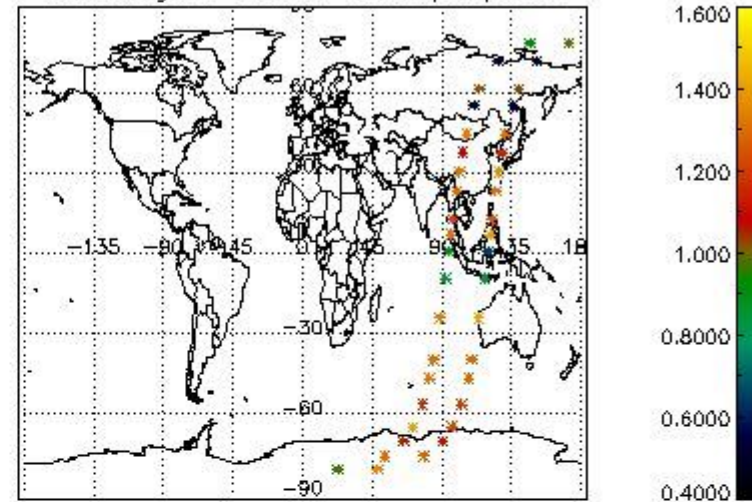


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

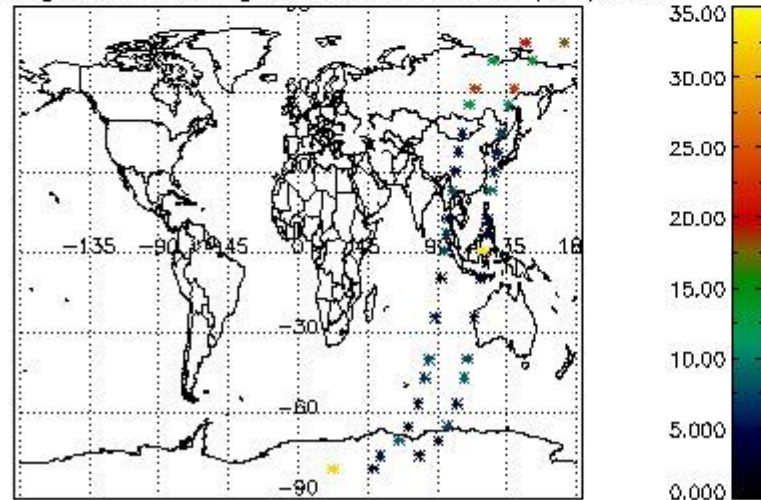
Percentage of cosmic ray hits per profile



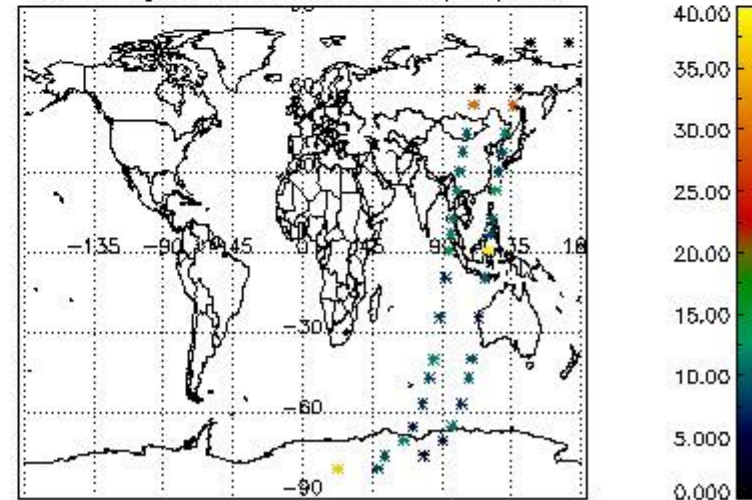
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

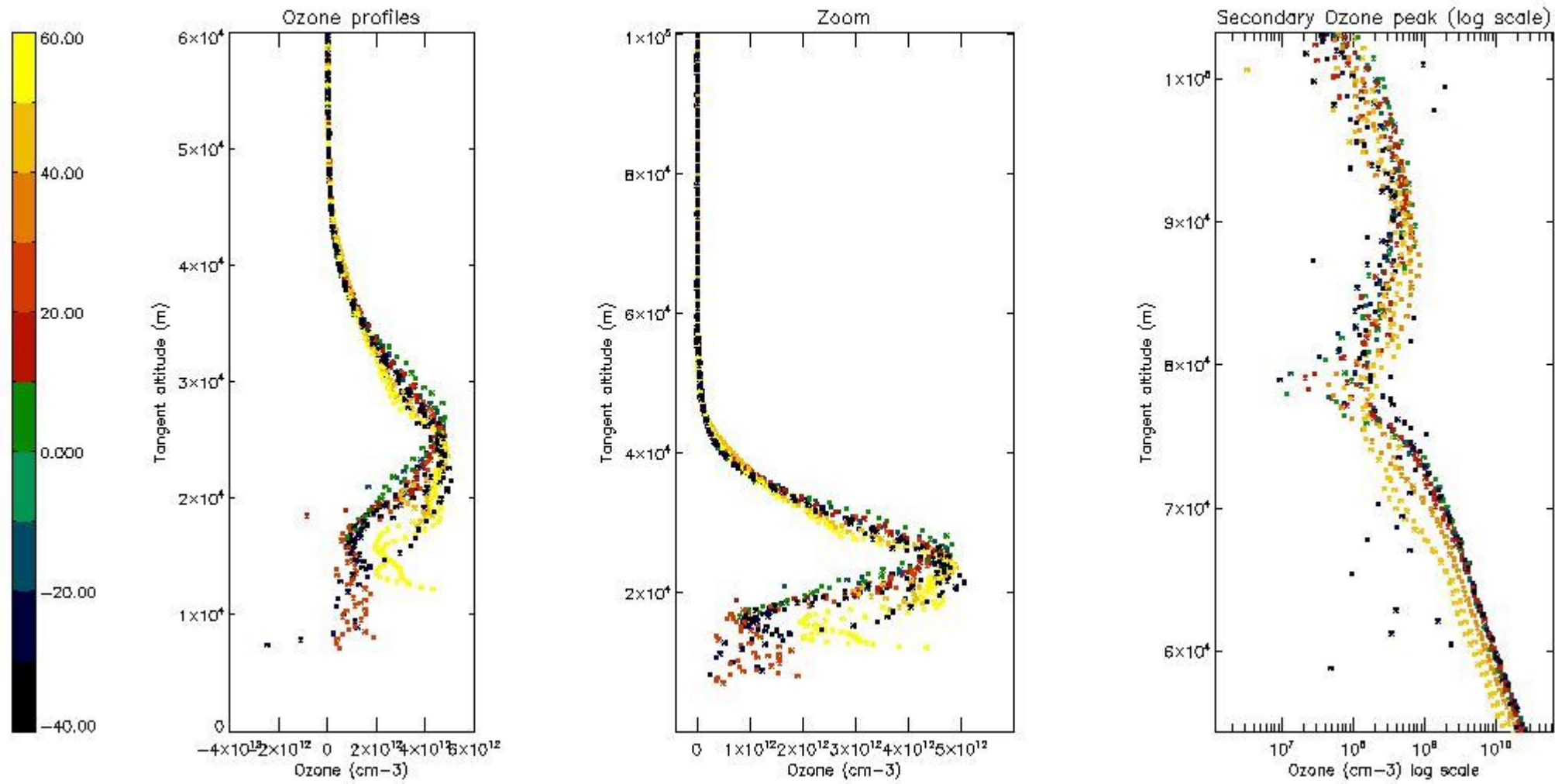
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	17

STD < 10	15
STD < 5	12

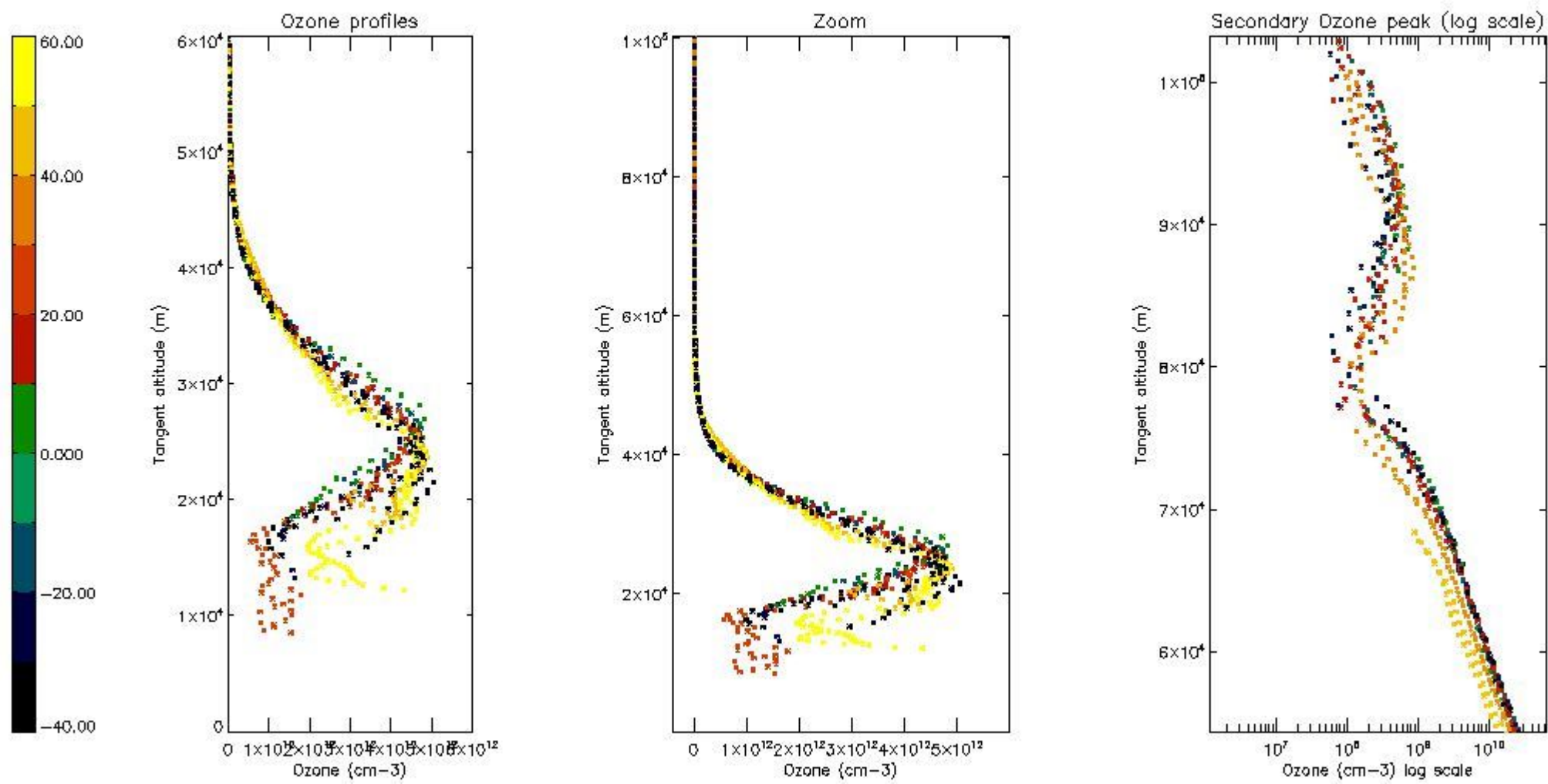
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



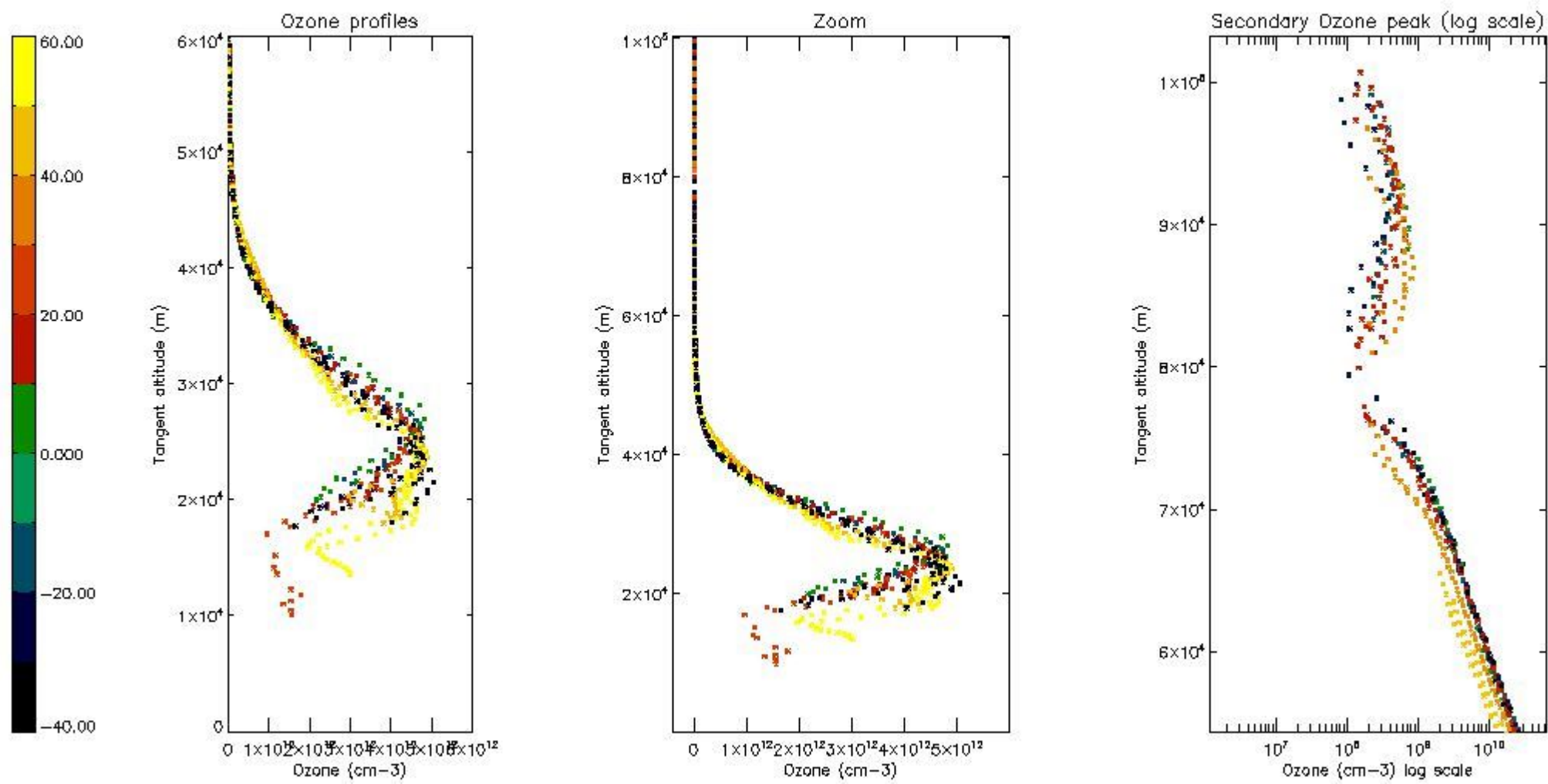
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



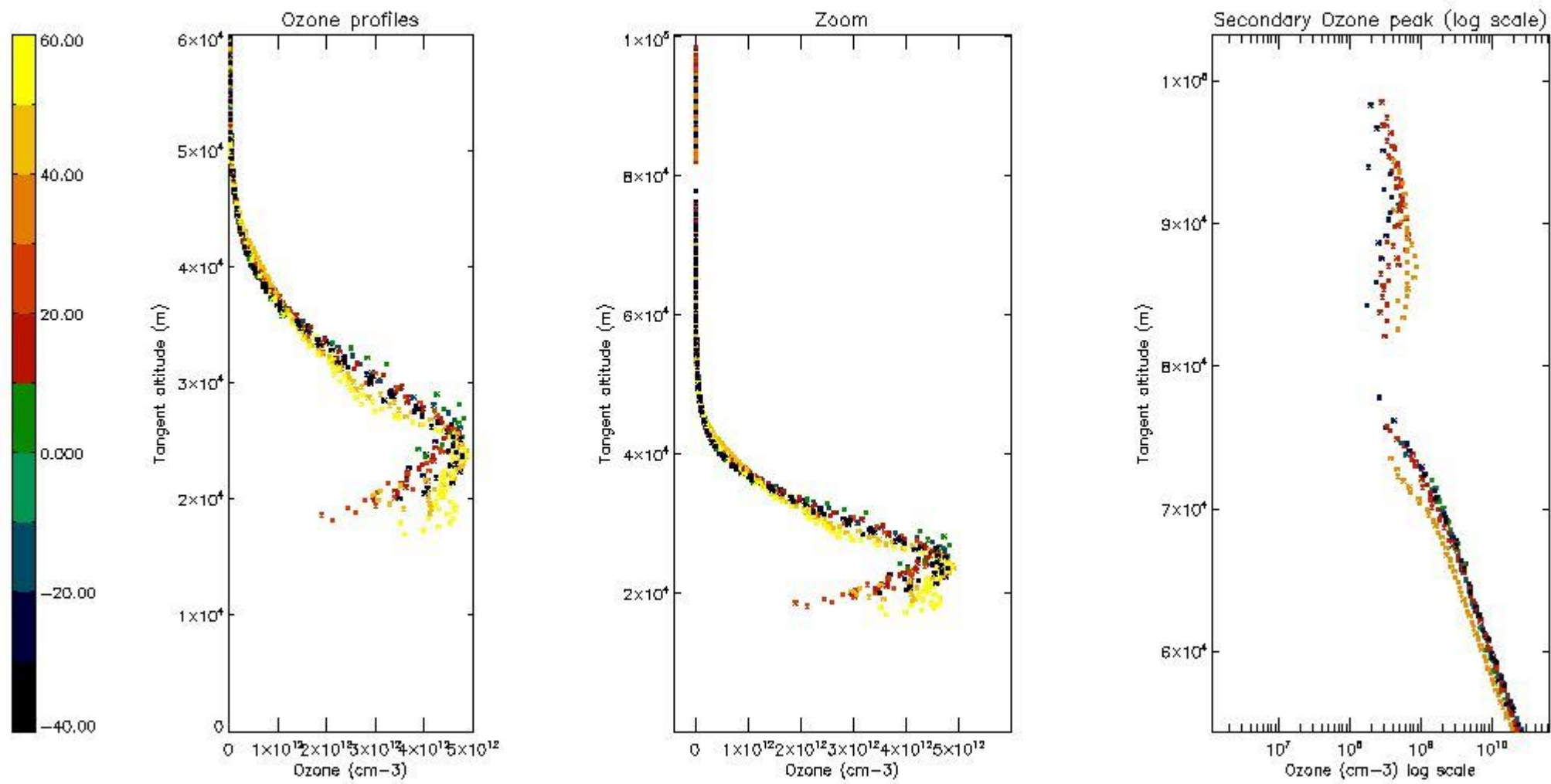
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



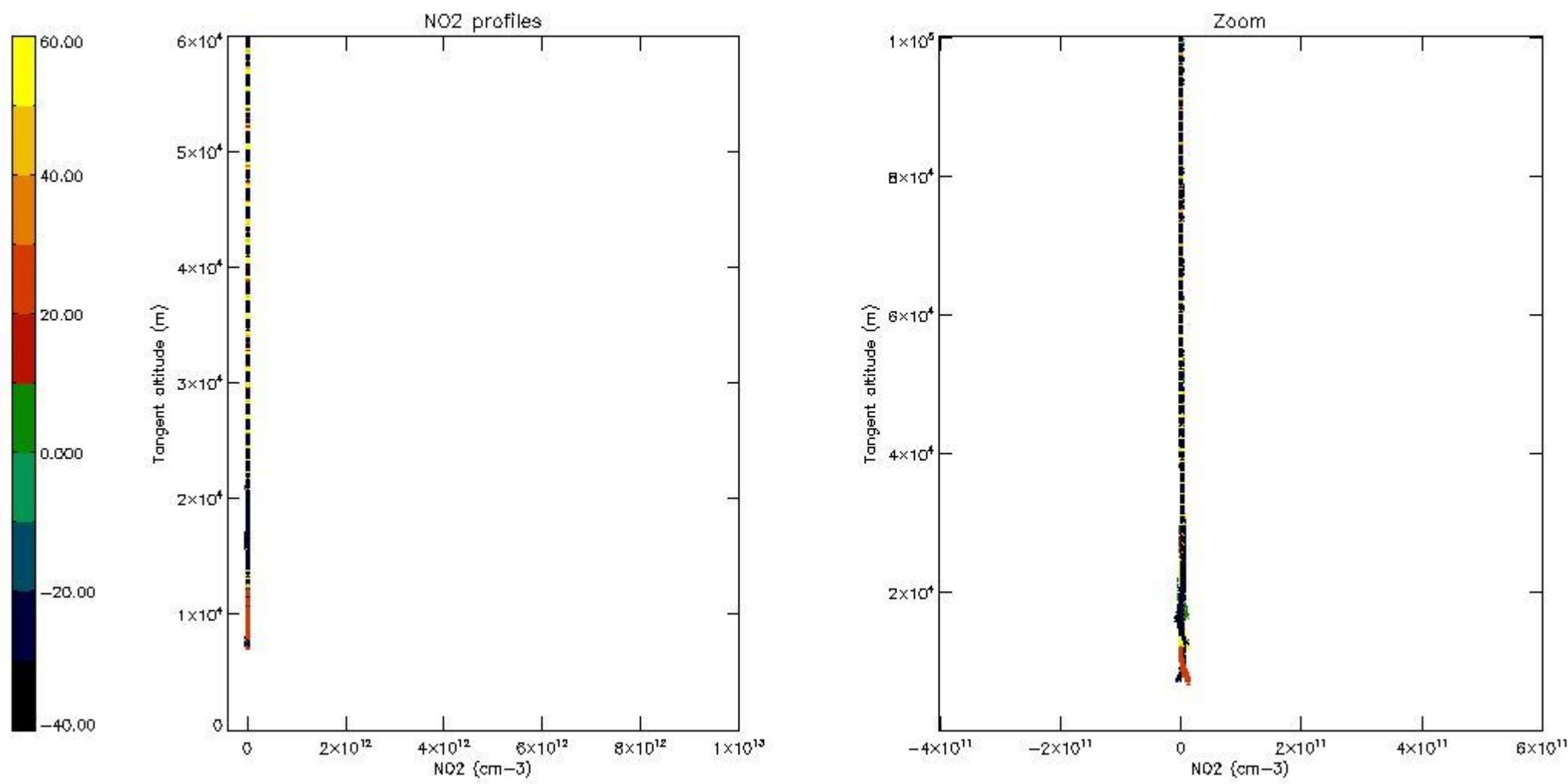
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



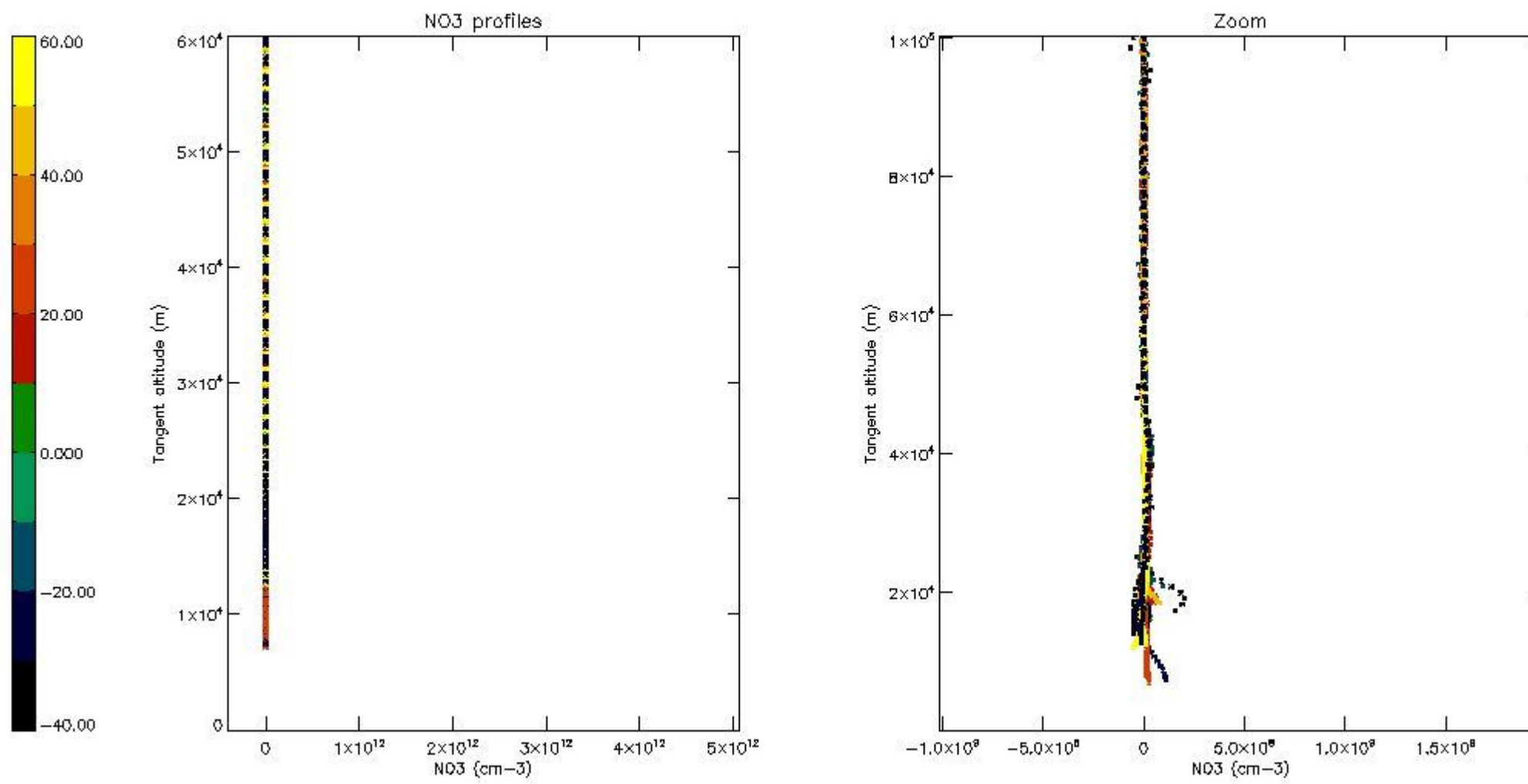
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



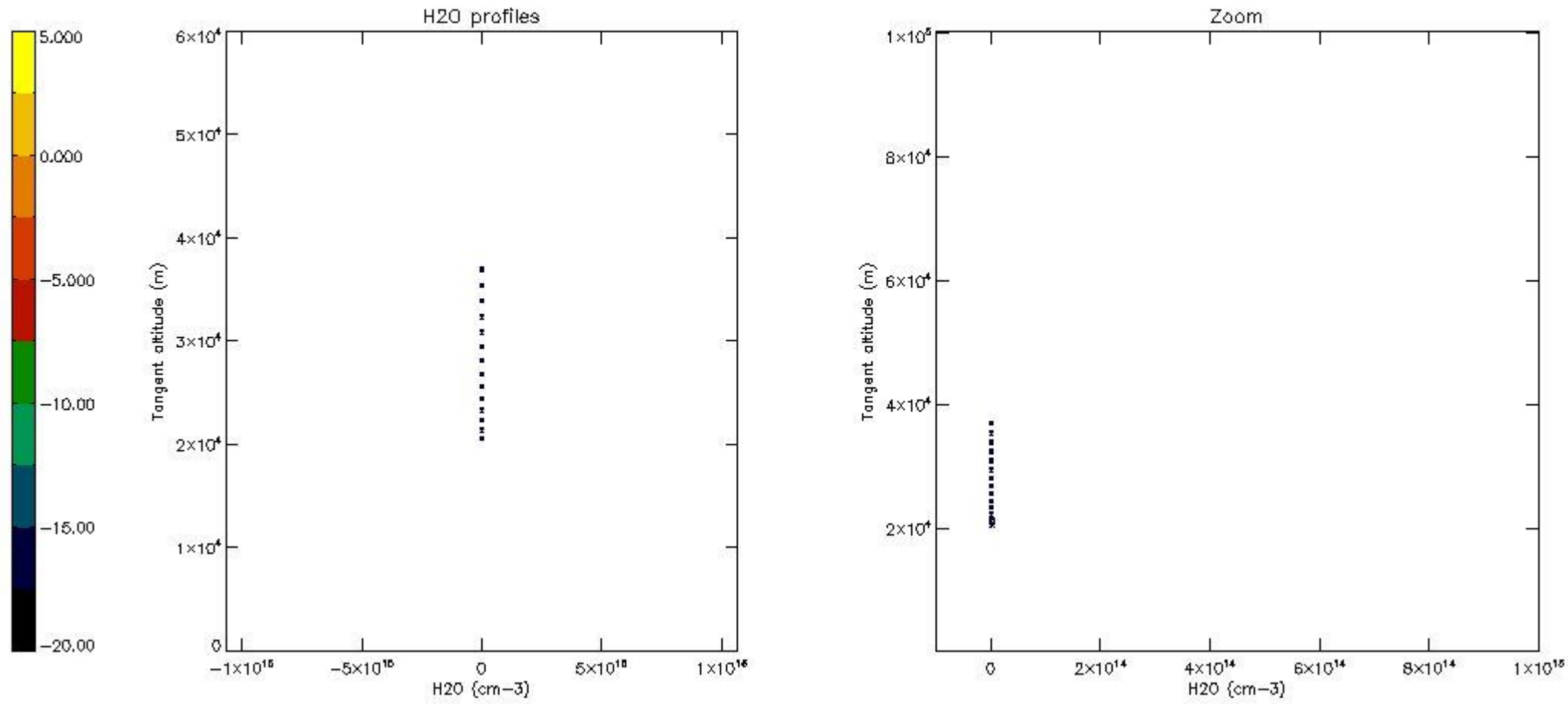
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



5.8 Plot H₂O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)

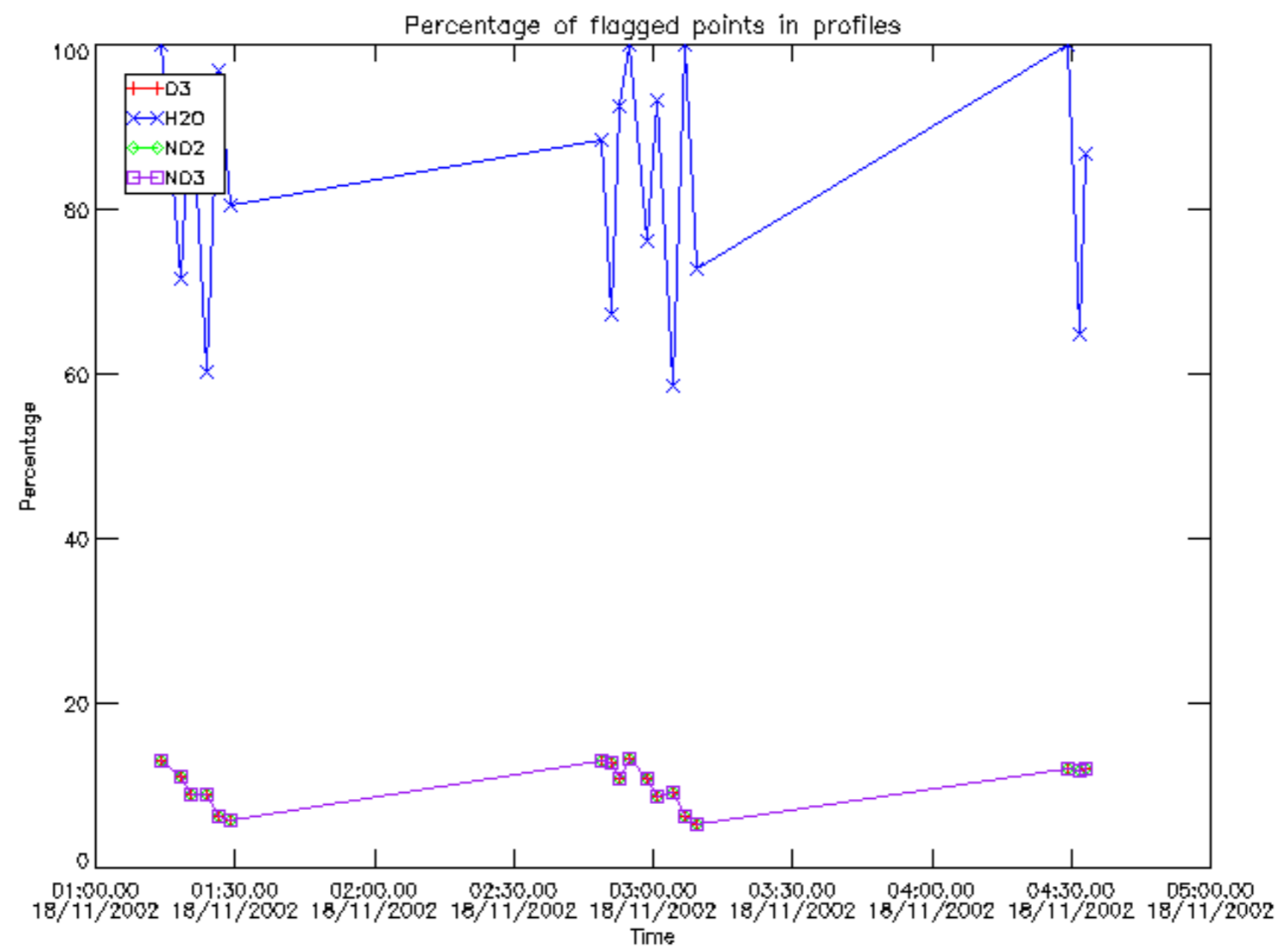
The colorbar represents the latitude.



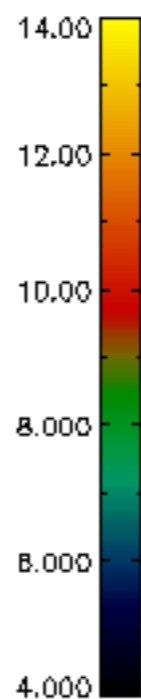
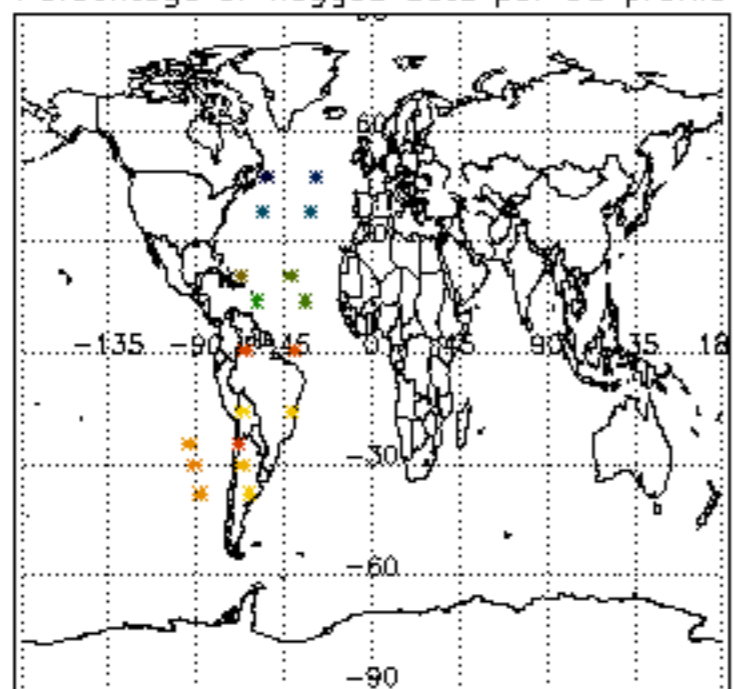
6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

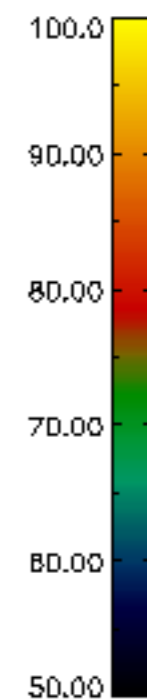
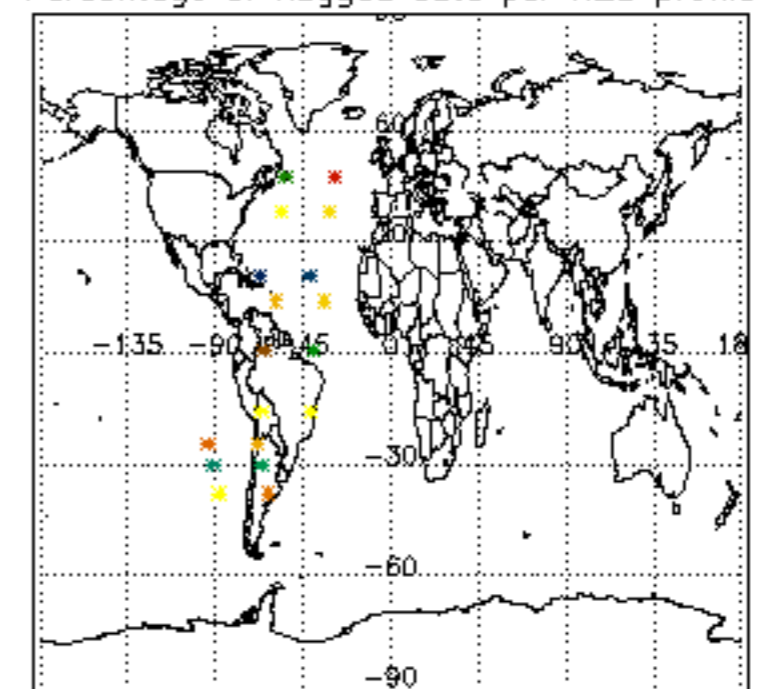
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	18-NOV-2002 01:14:13
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	18-NOV-2002 01:14:13
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	18-NOV-2002 01:14:13



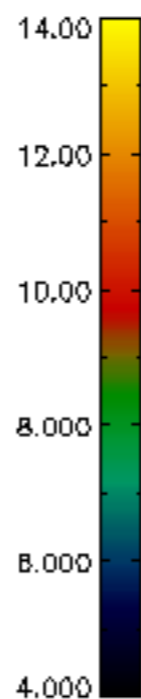
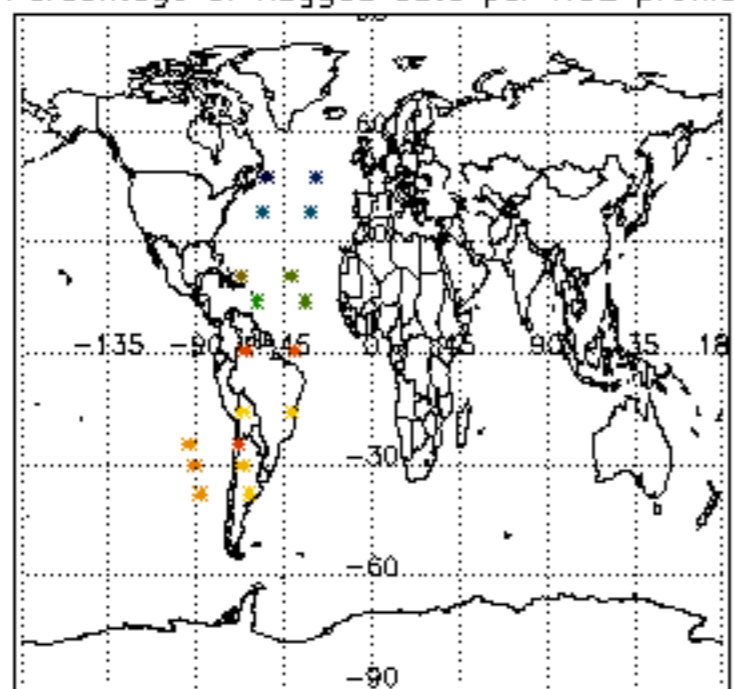
Percentage of flagged data per D3 profile



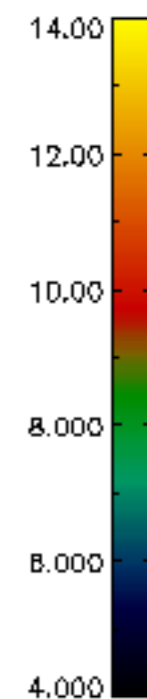
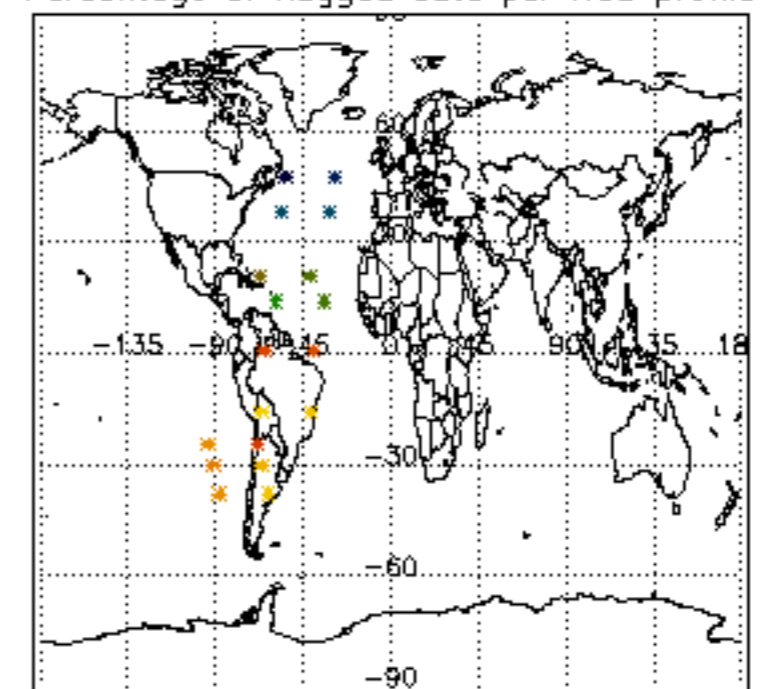
Percentage of flagged data per H2O profile

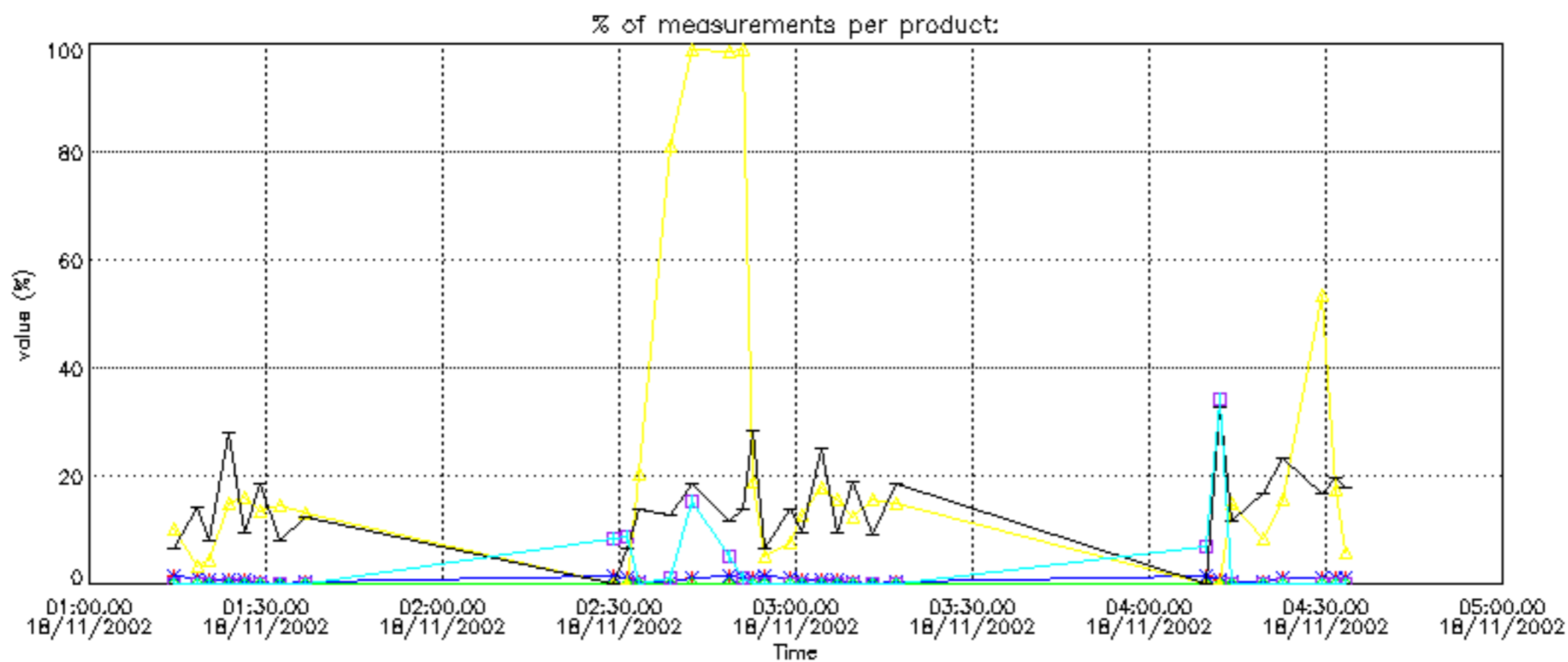


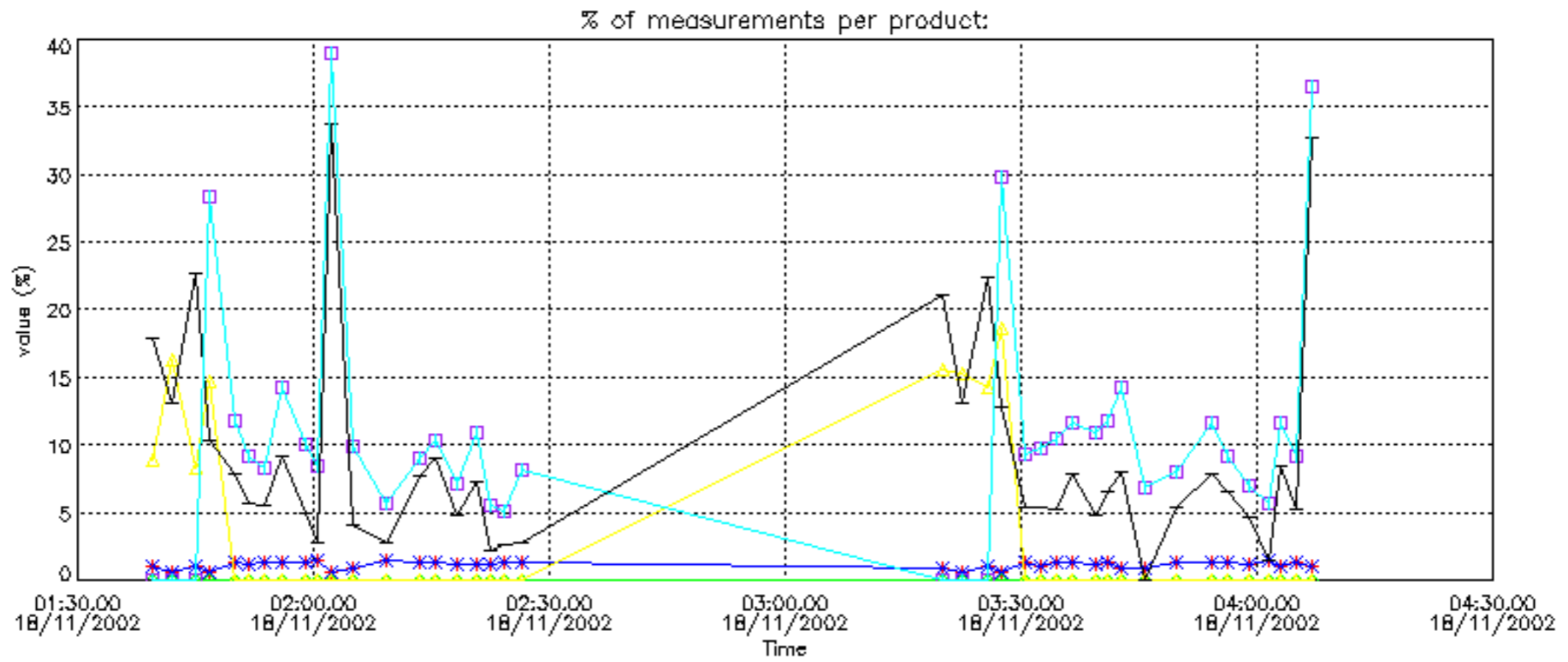
Percentage of flagged data per NO2 profile



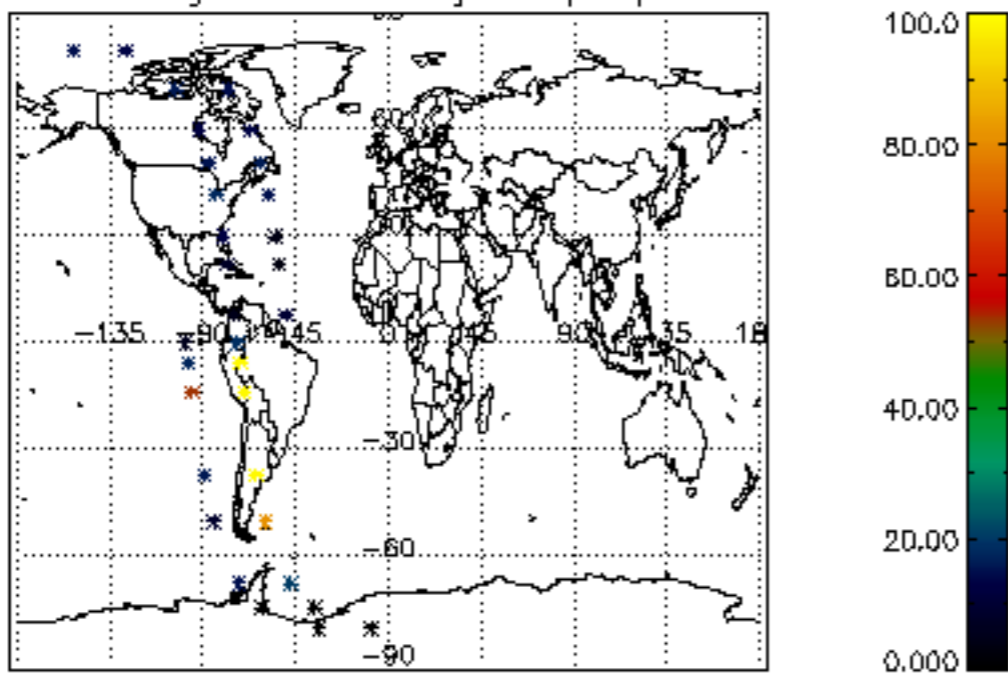
Percentage of flagged data per NO3 profile



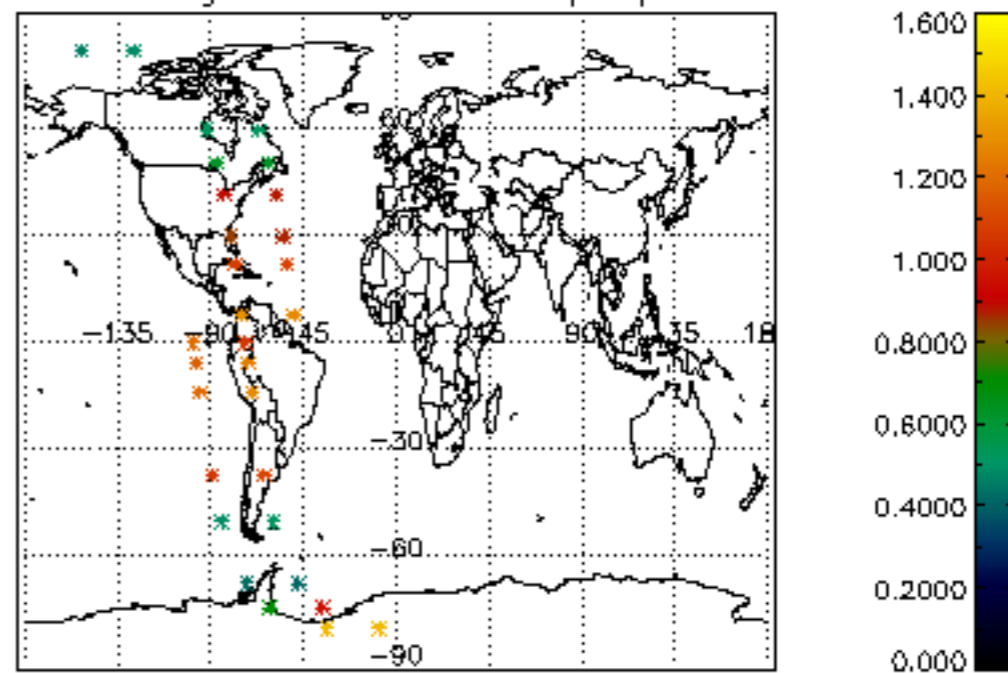




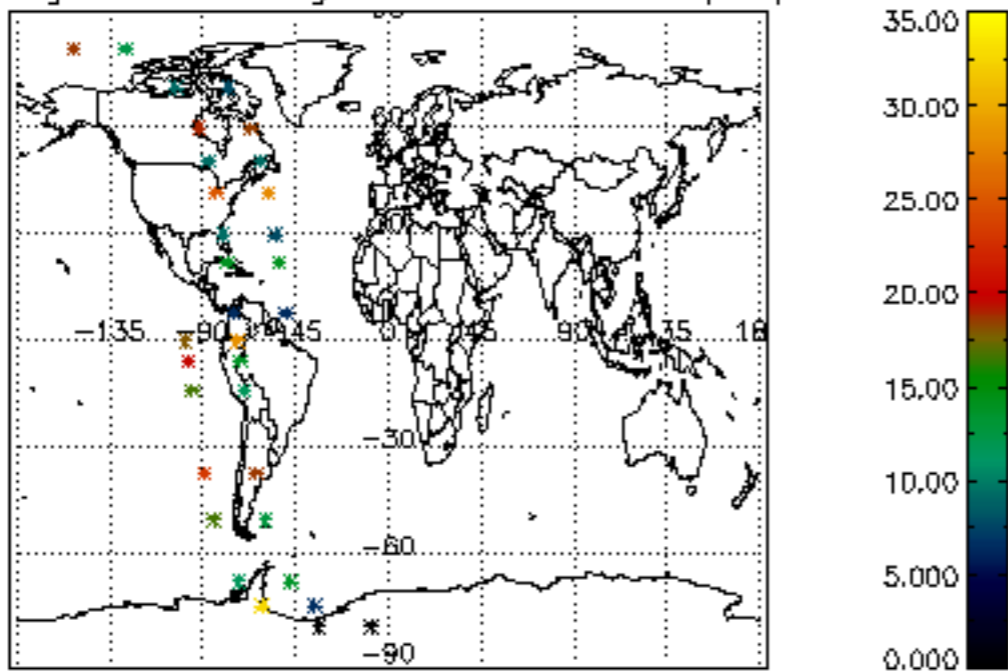
Percentage of cosmic ray hits per profile



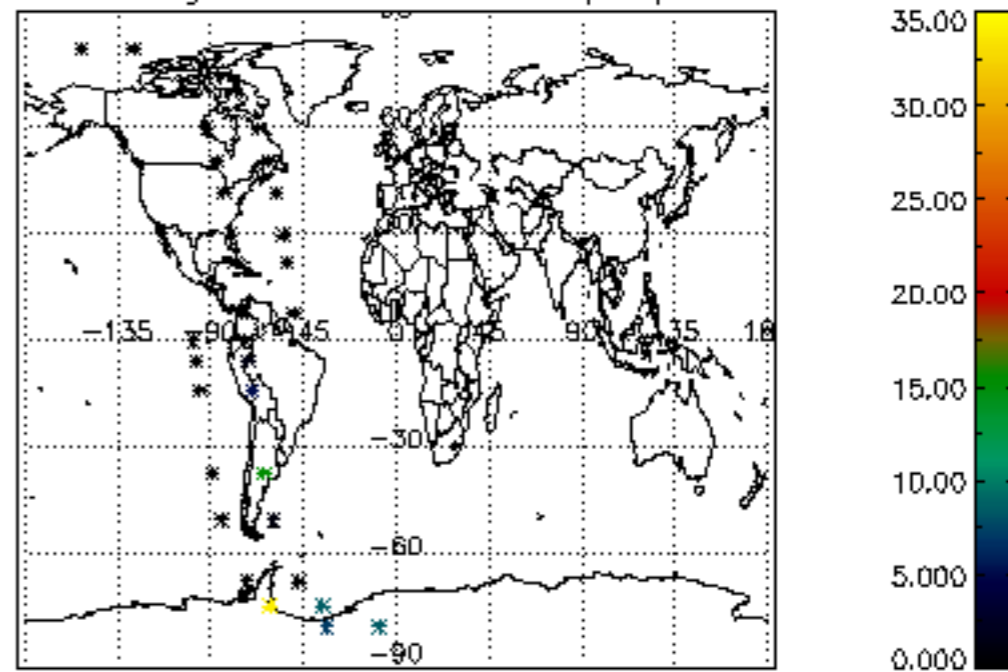
Percentage of datation errors per profile



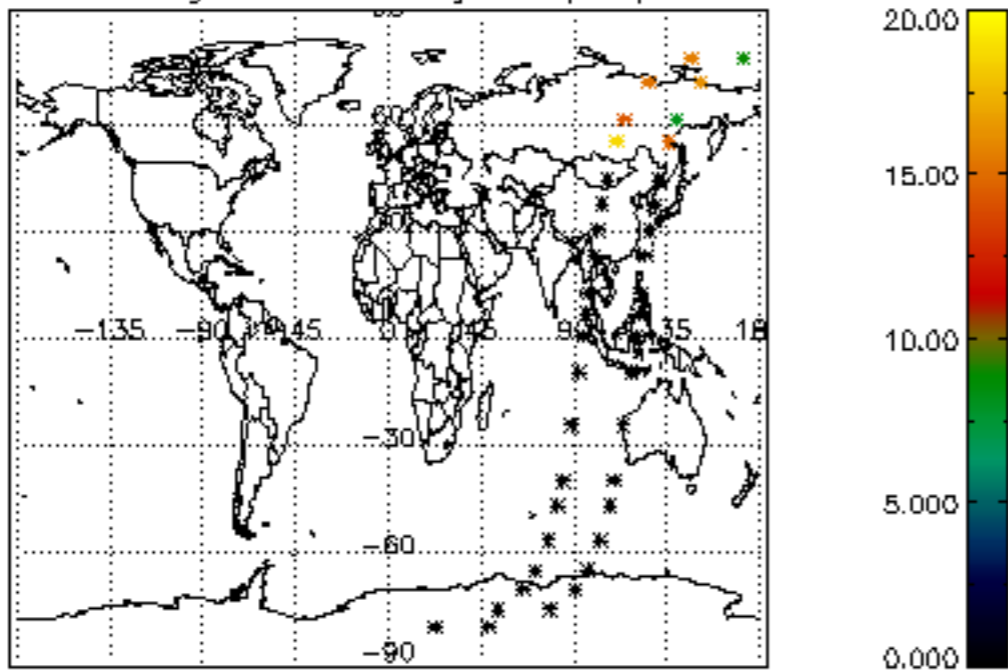
Percentage of star falling outside central band per profile



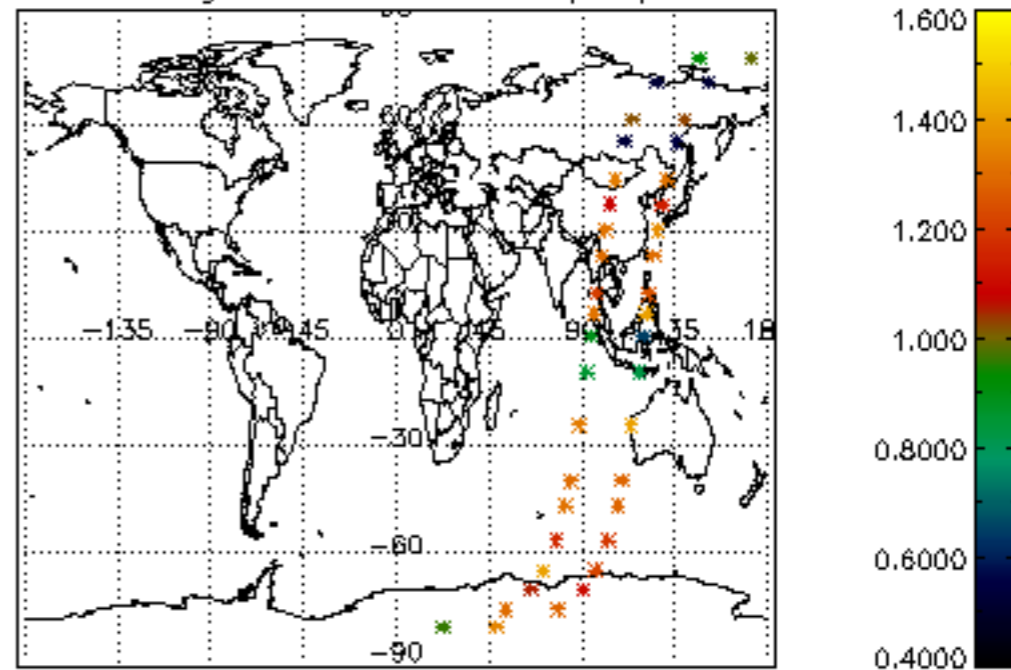
Percentage of saturation errors per profile



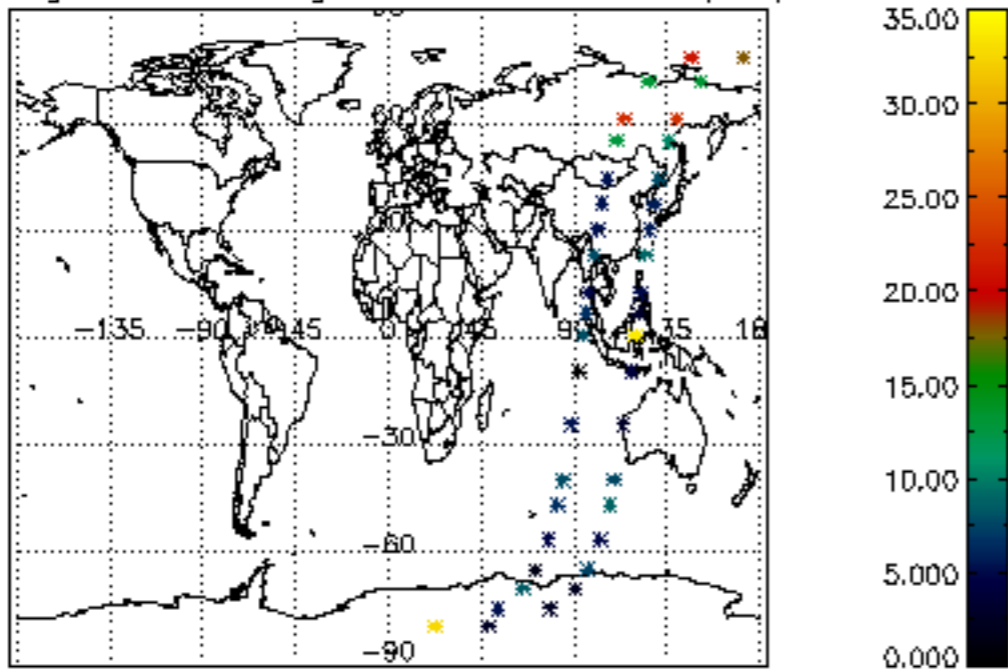
Percentage of cosmic ray hits per profile



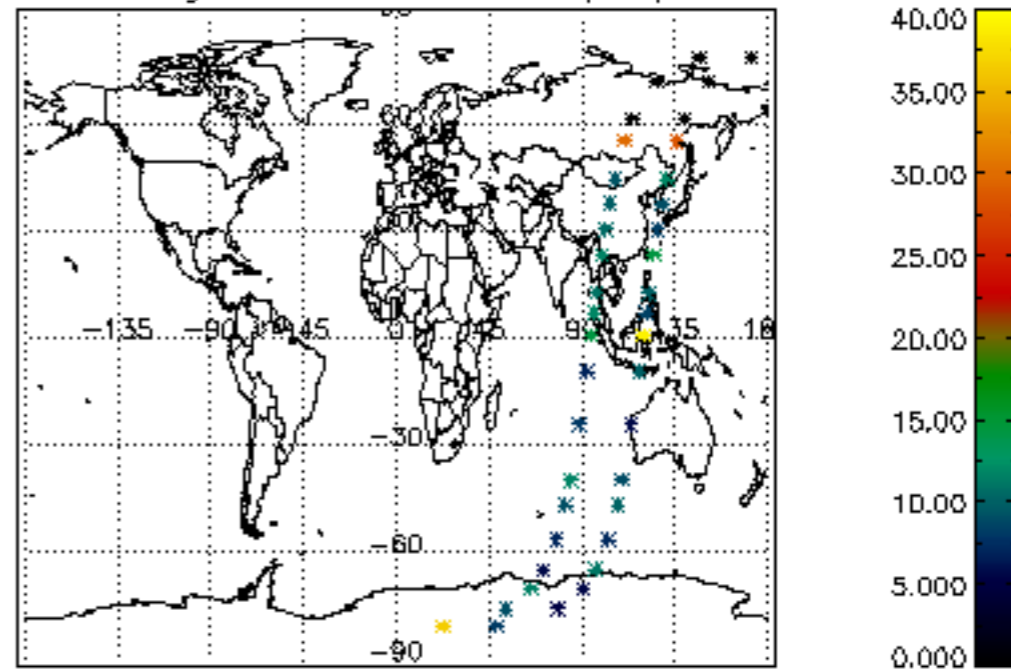
Percentage of datation errors per profile

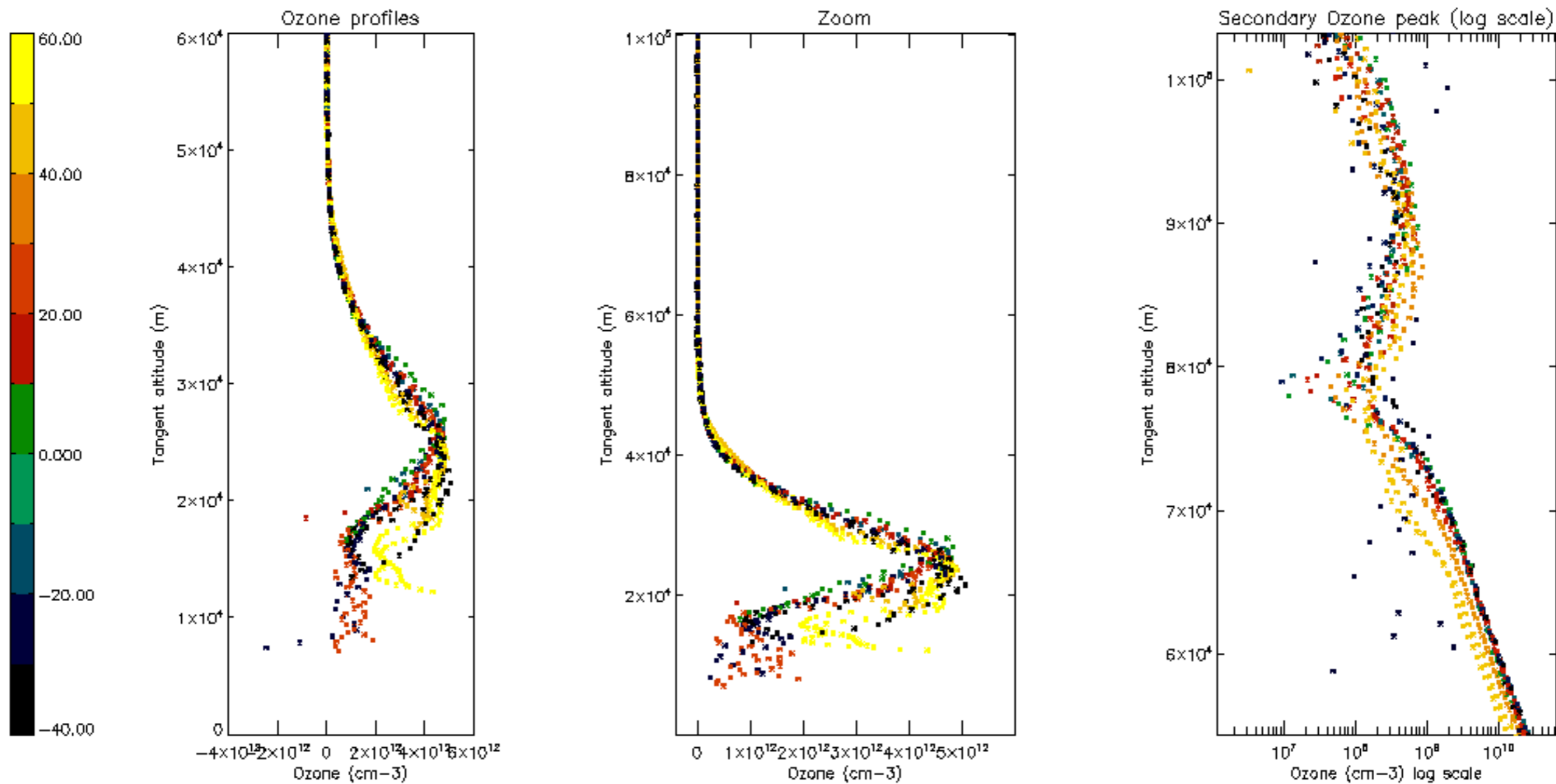


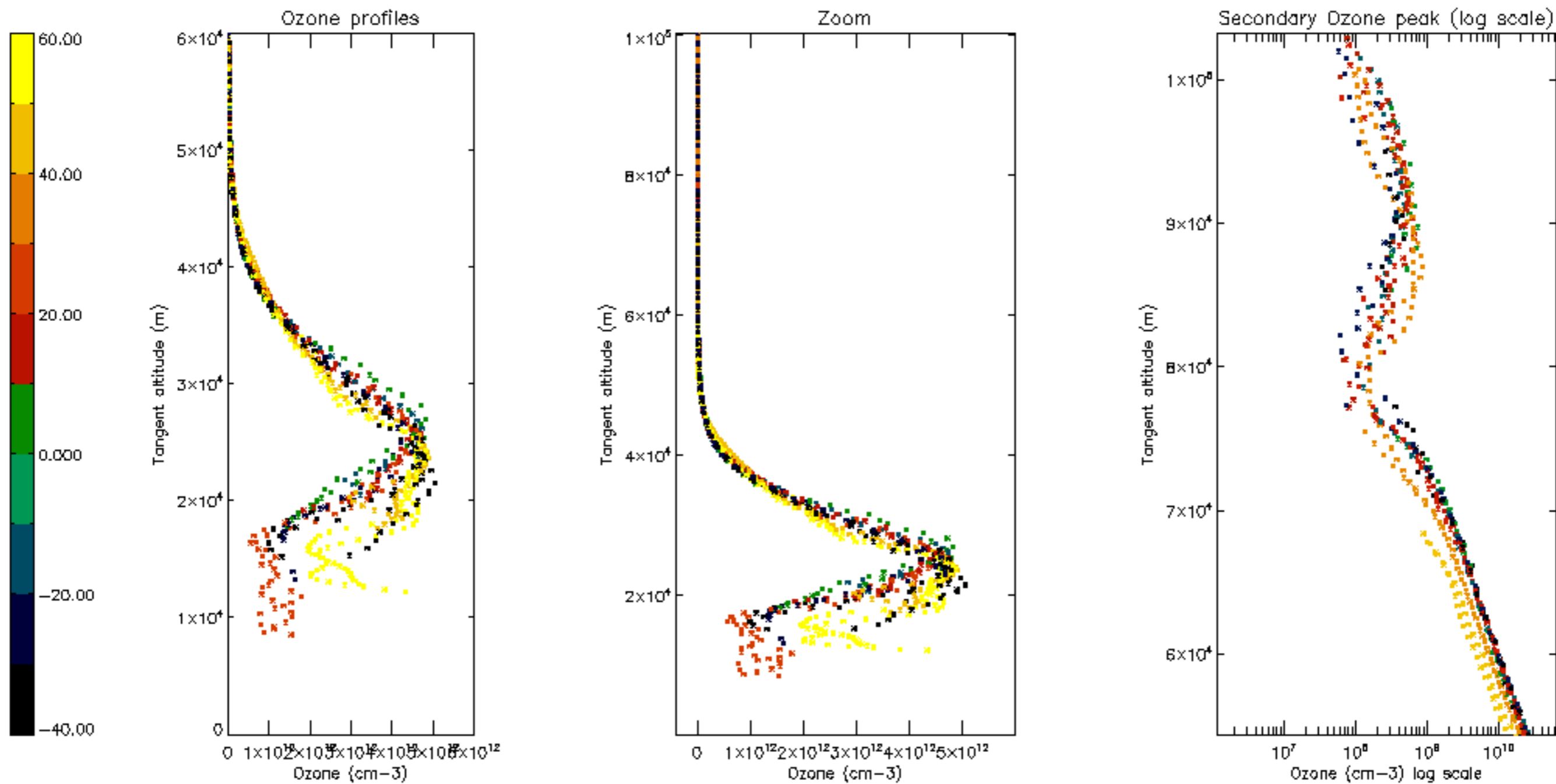
Percentage of star falling outside central band per profile

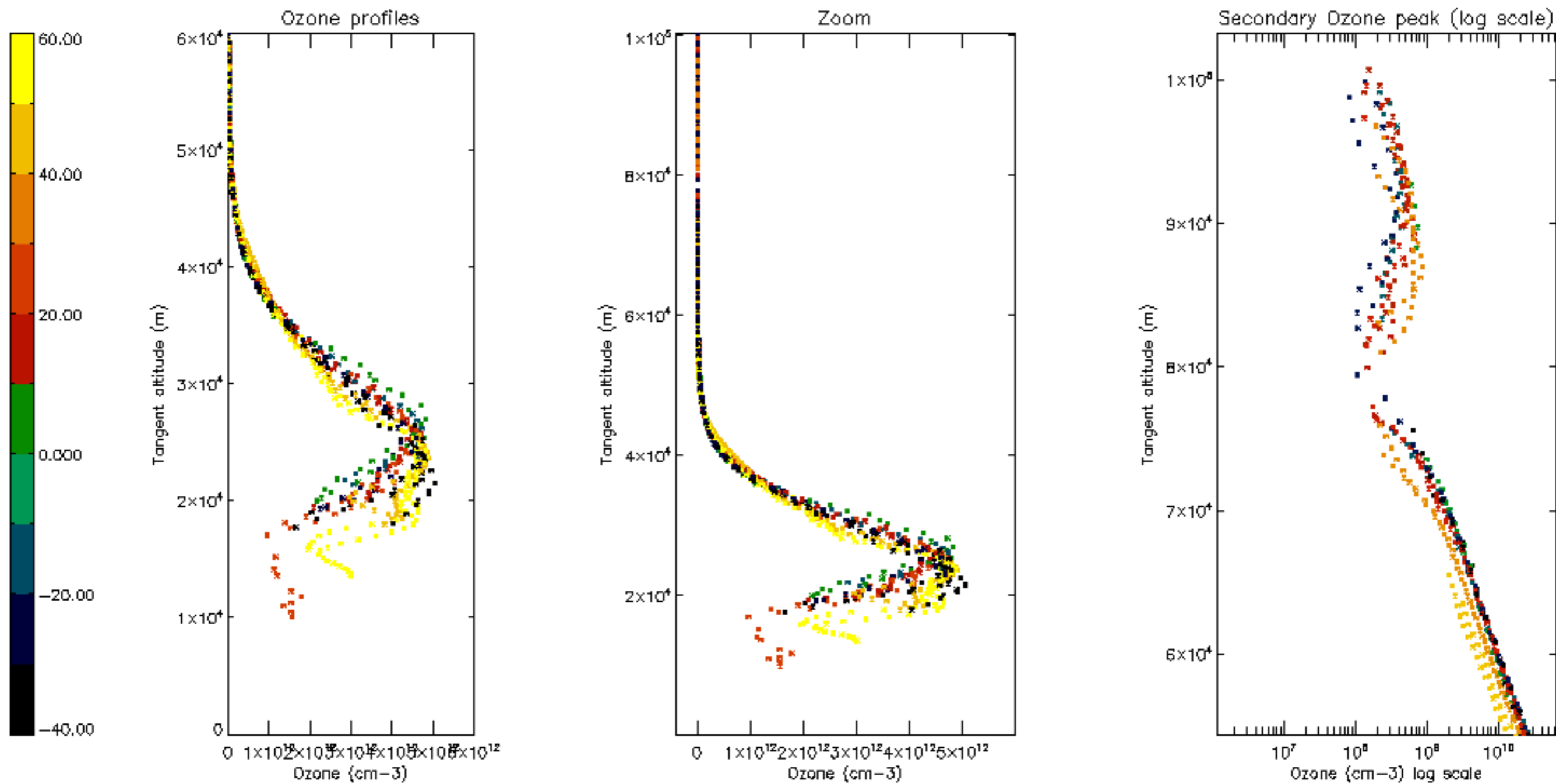


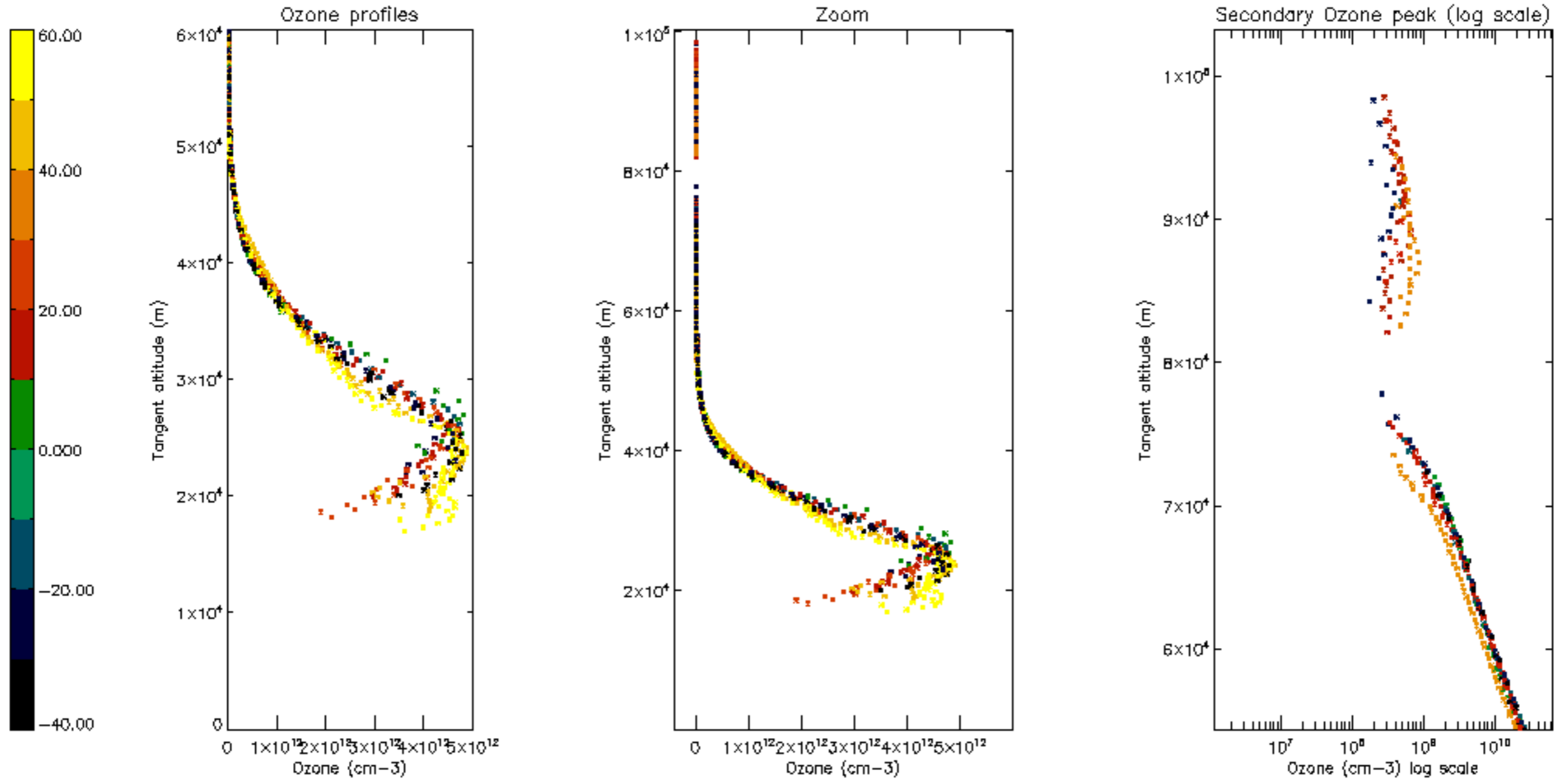
Percentage of saturation errors per profile

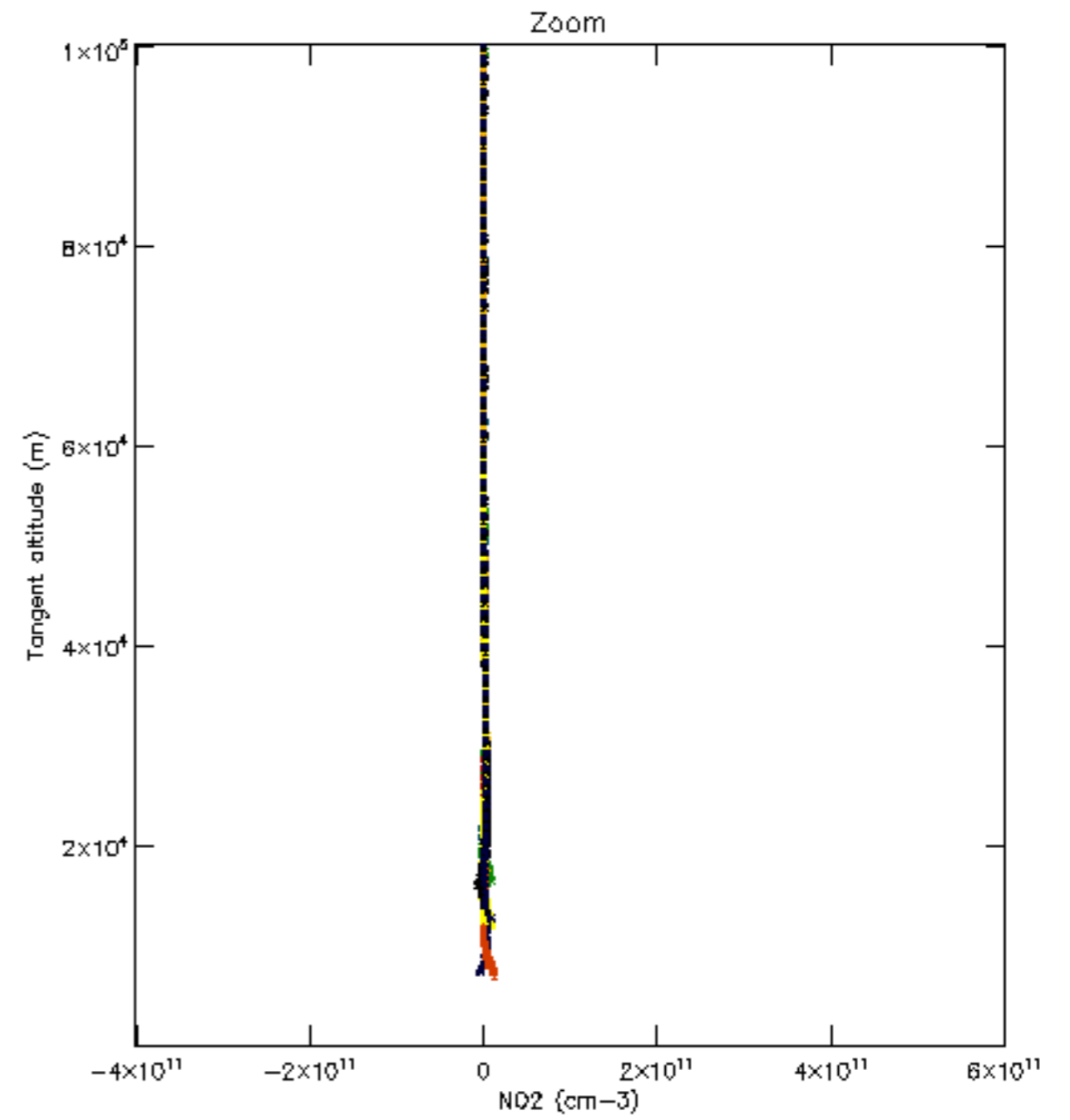
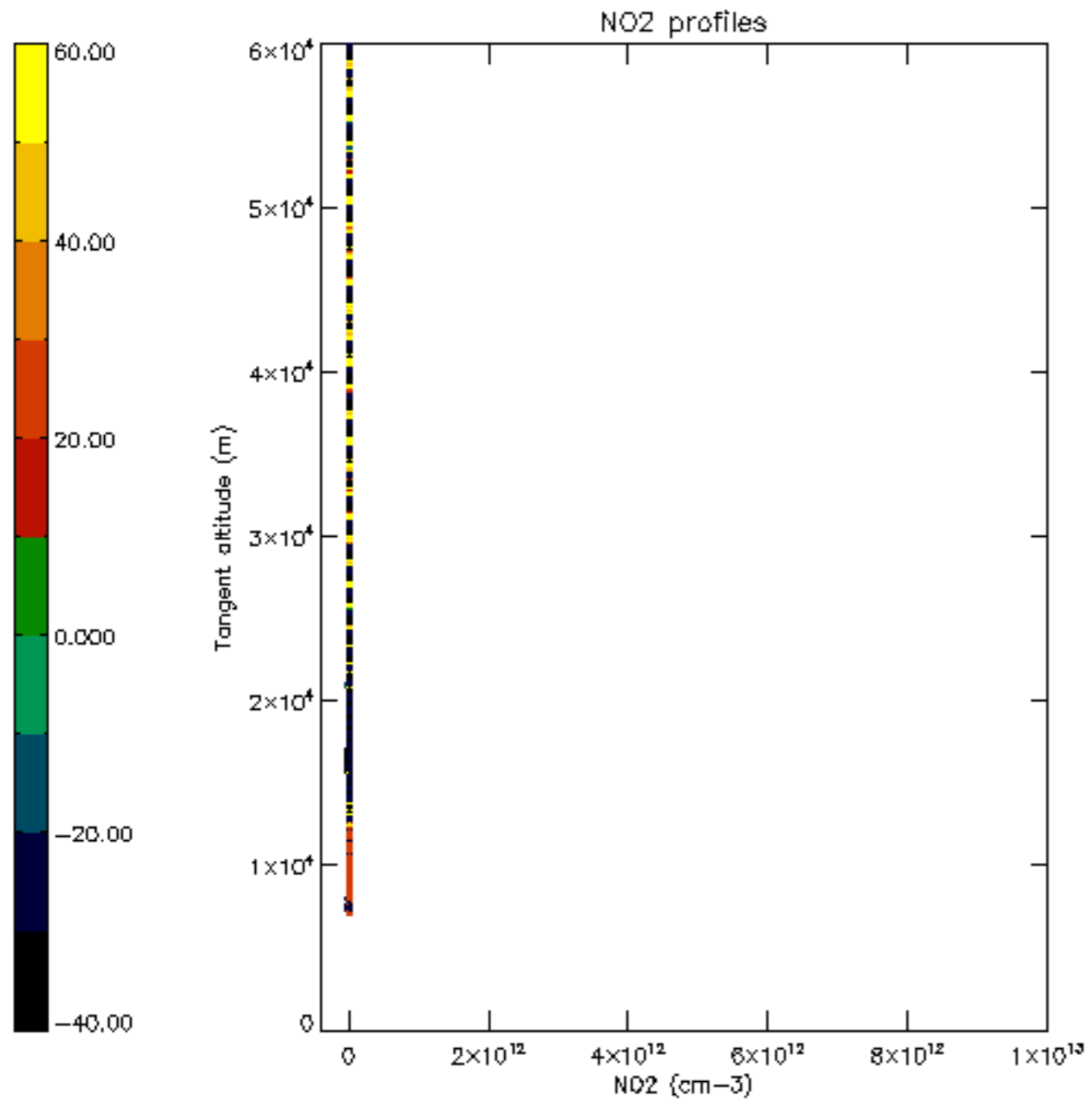


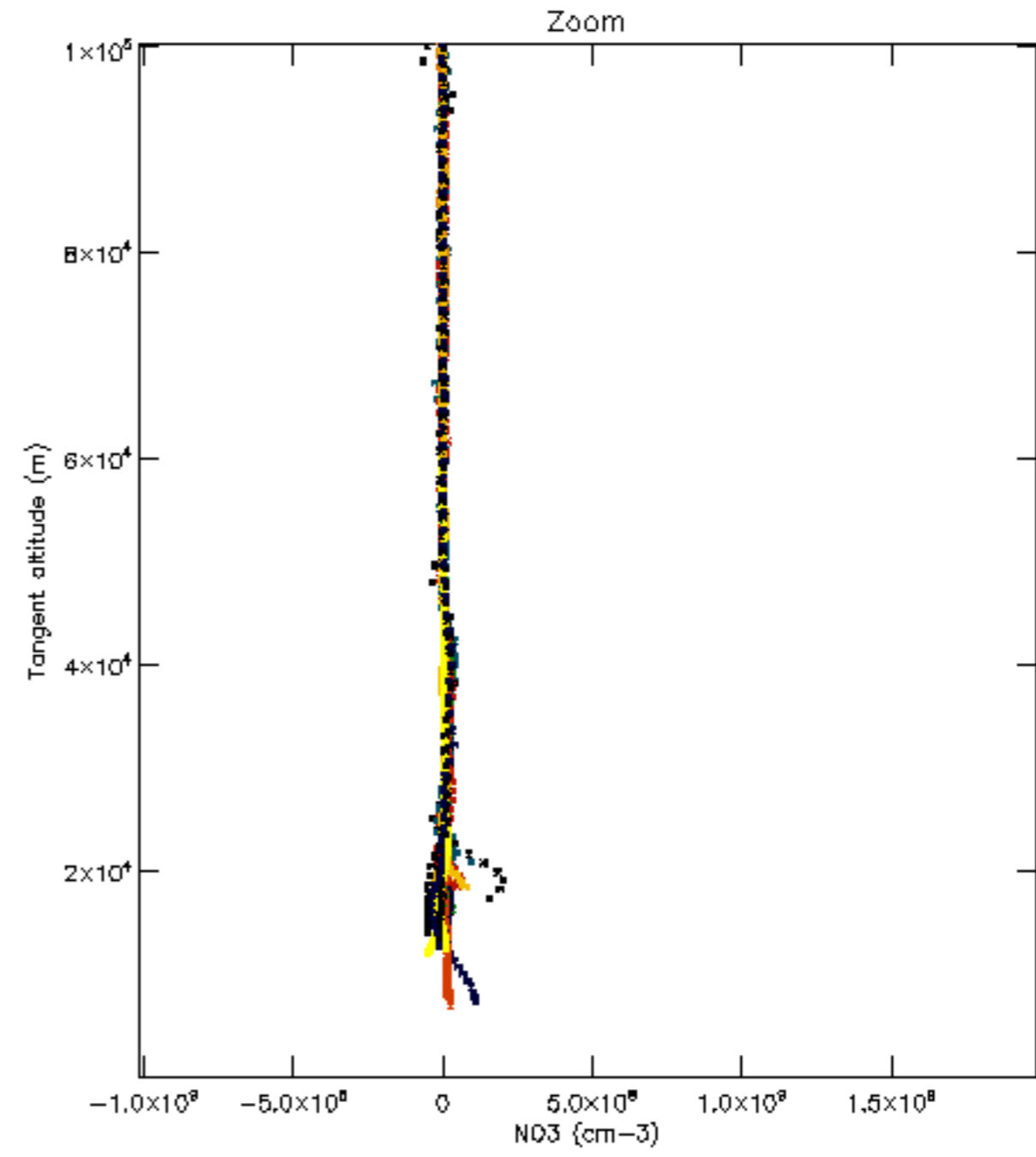
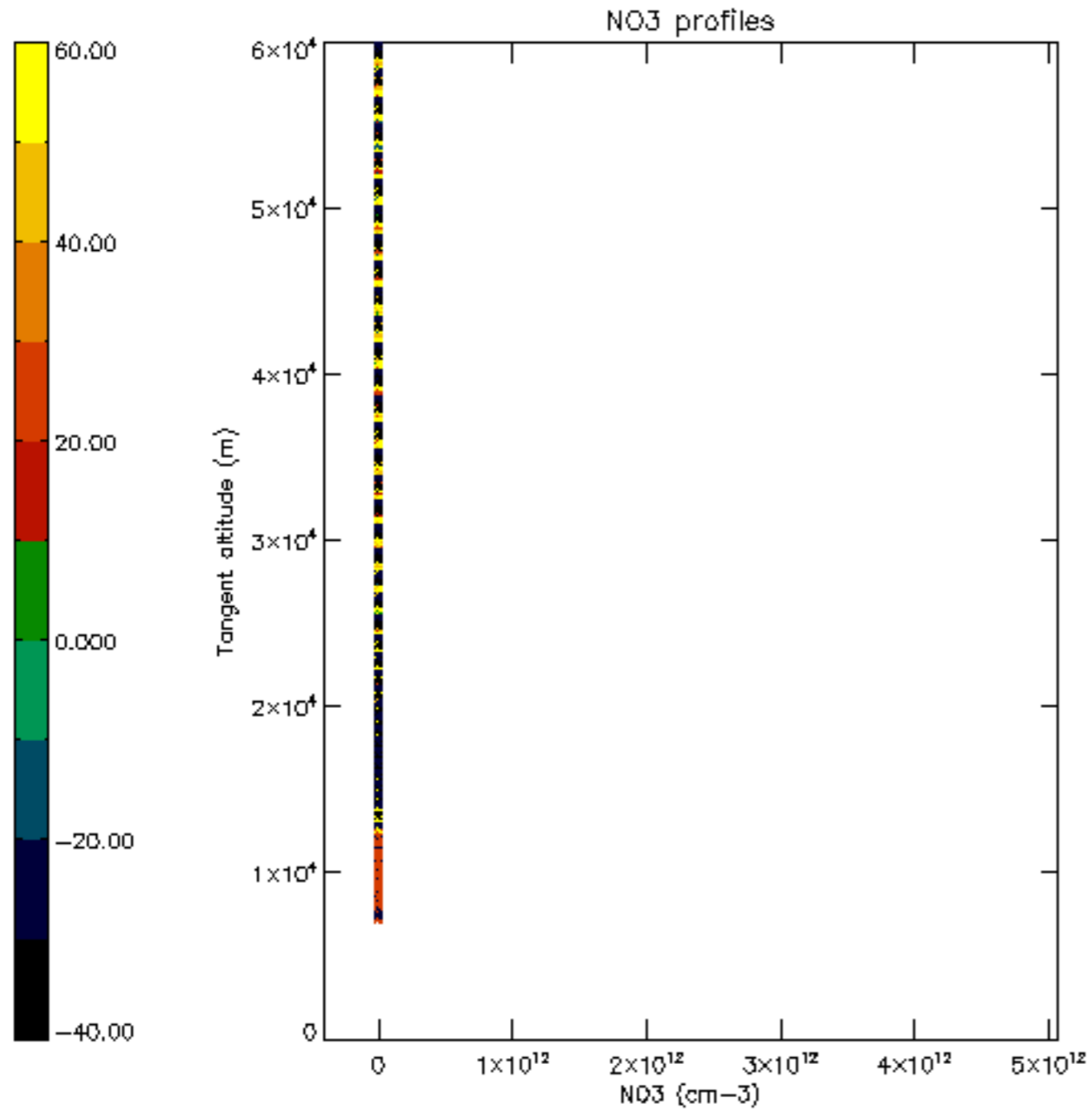


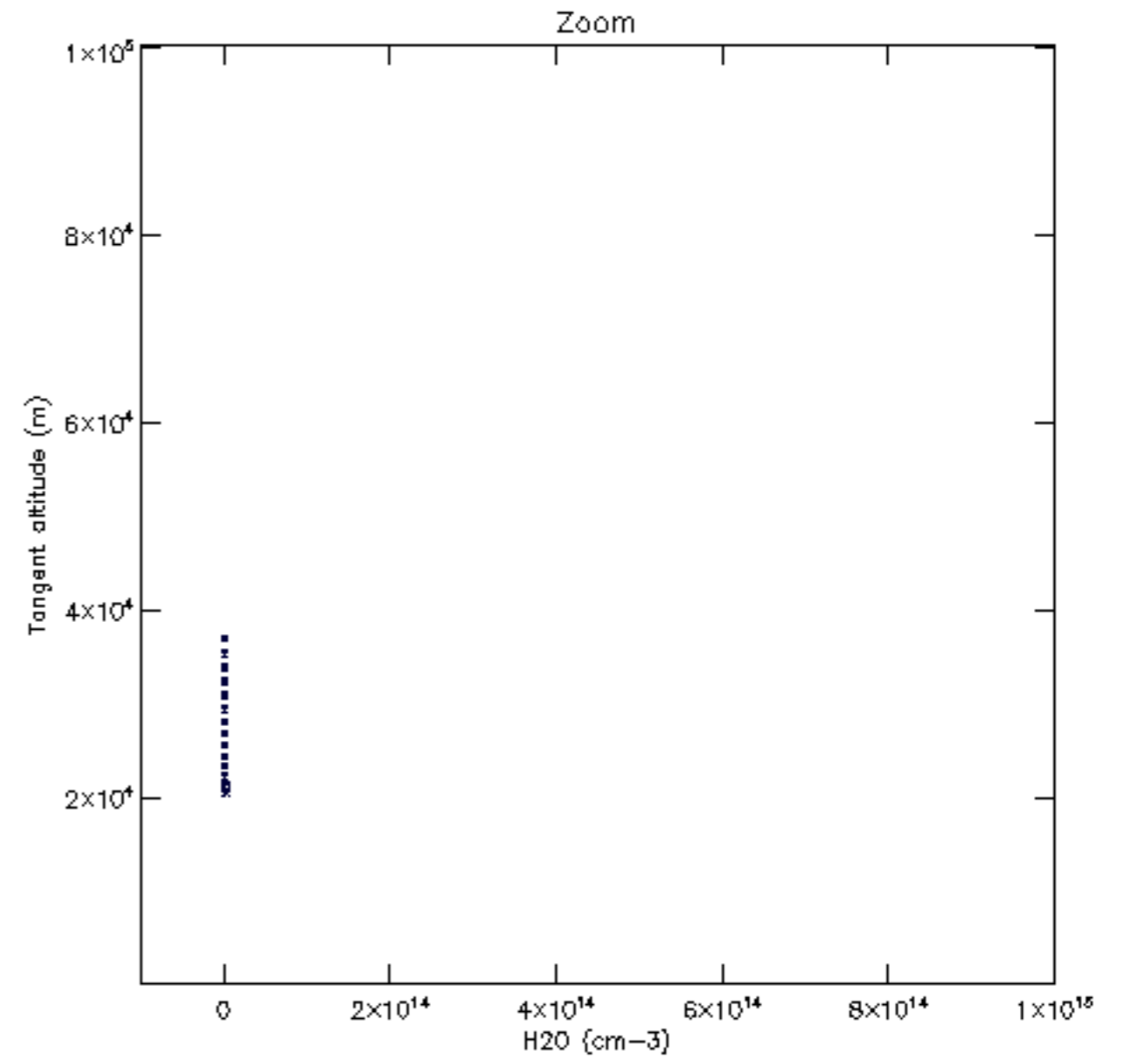
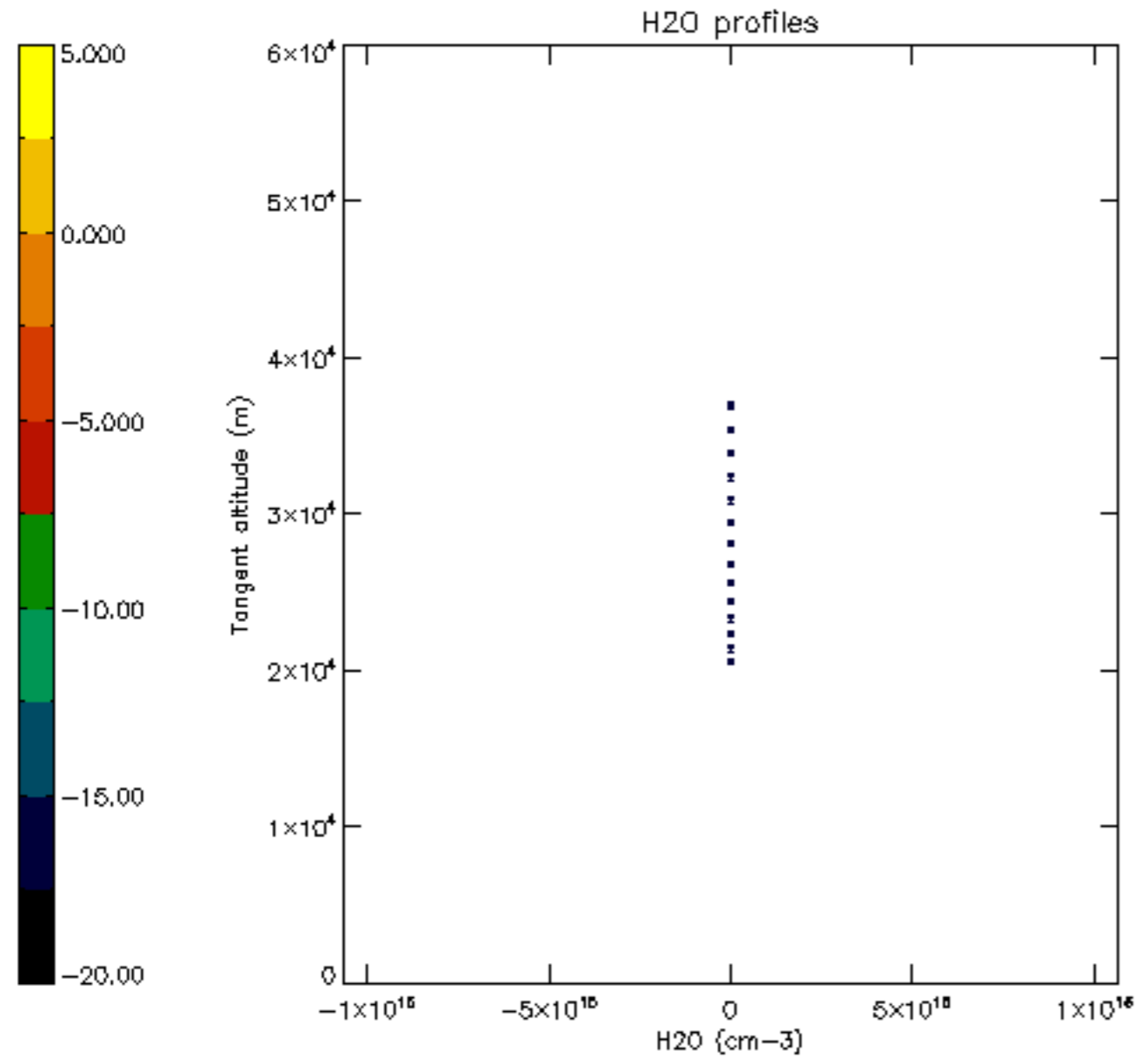


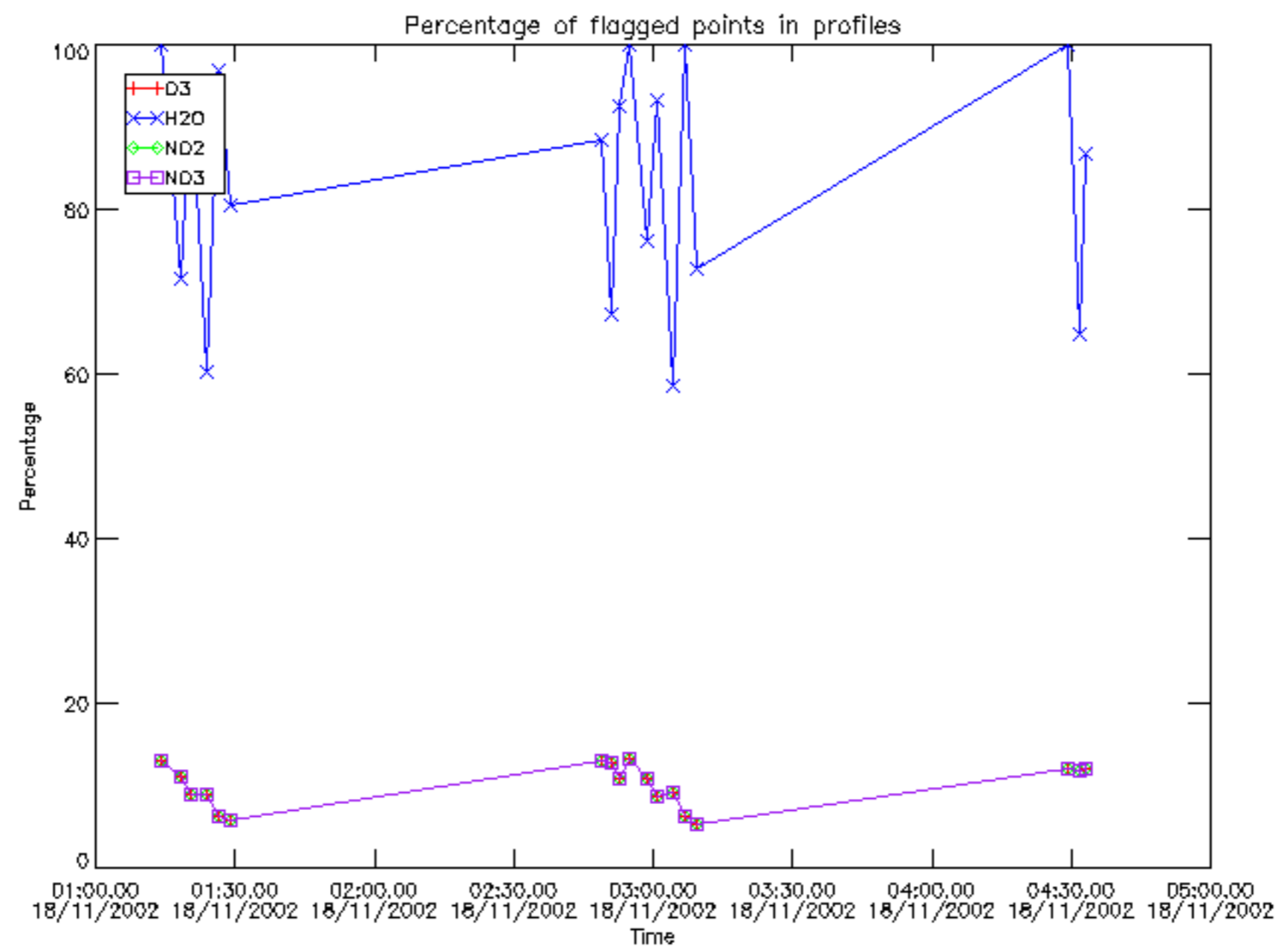




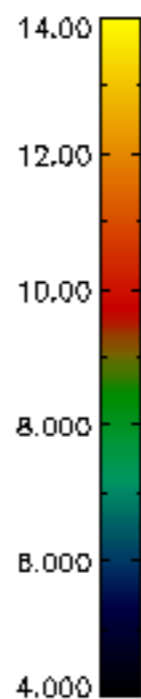
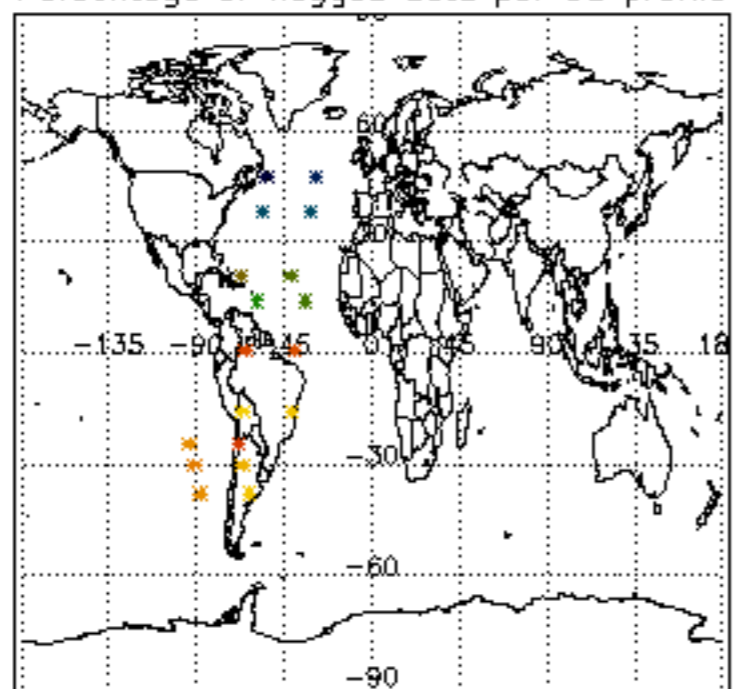




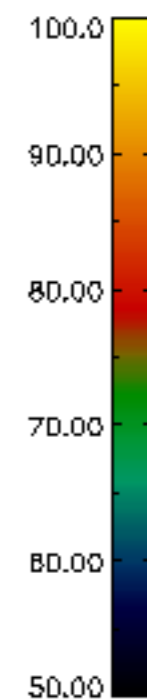
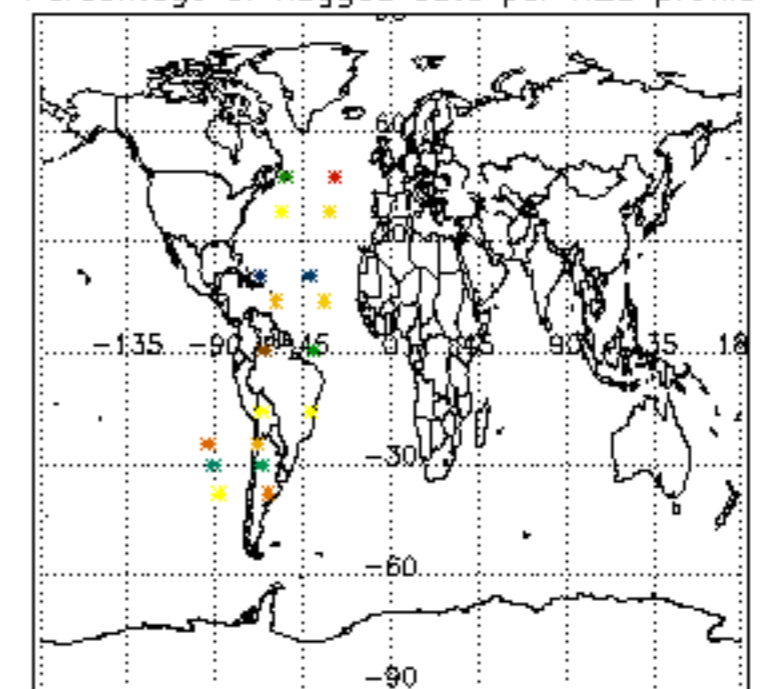




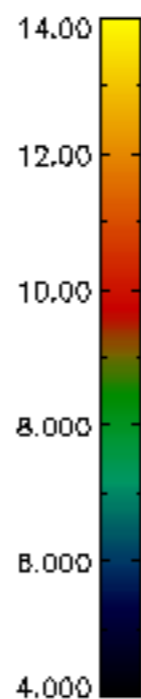
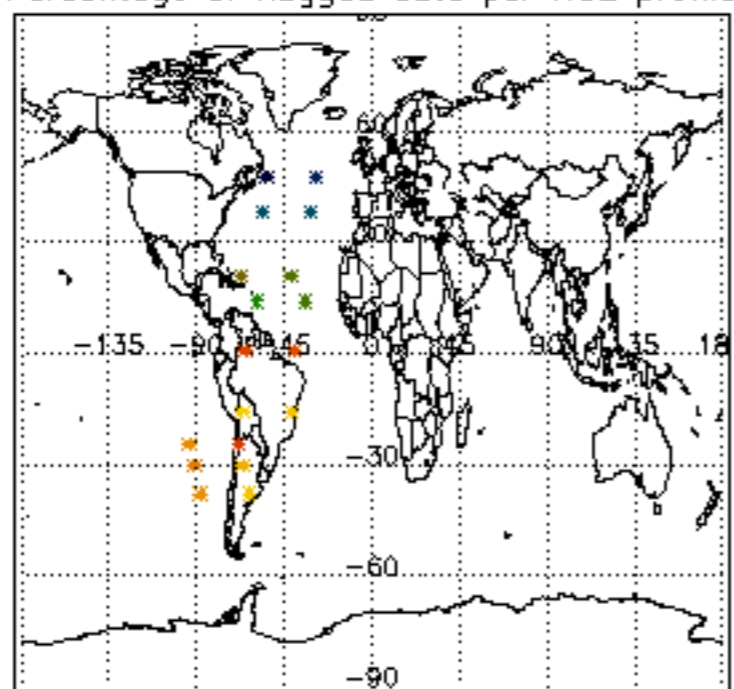
Percentage of flagged data per D3 profile



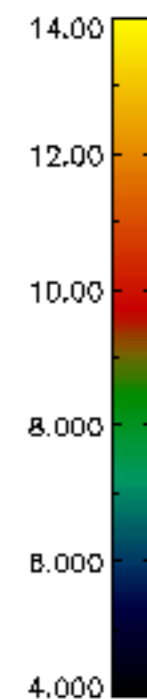
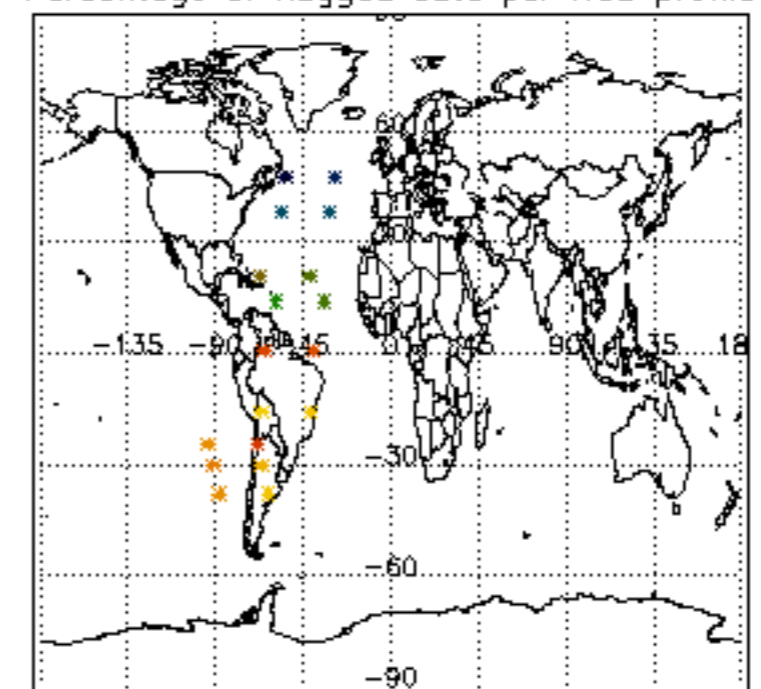
Percentage of flagged data per H2O profile

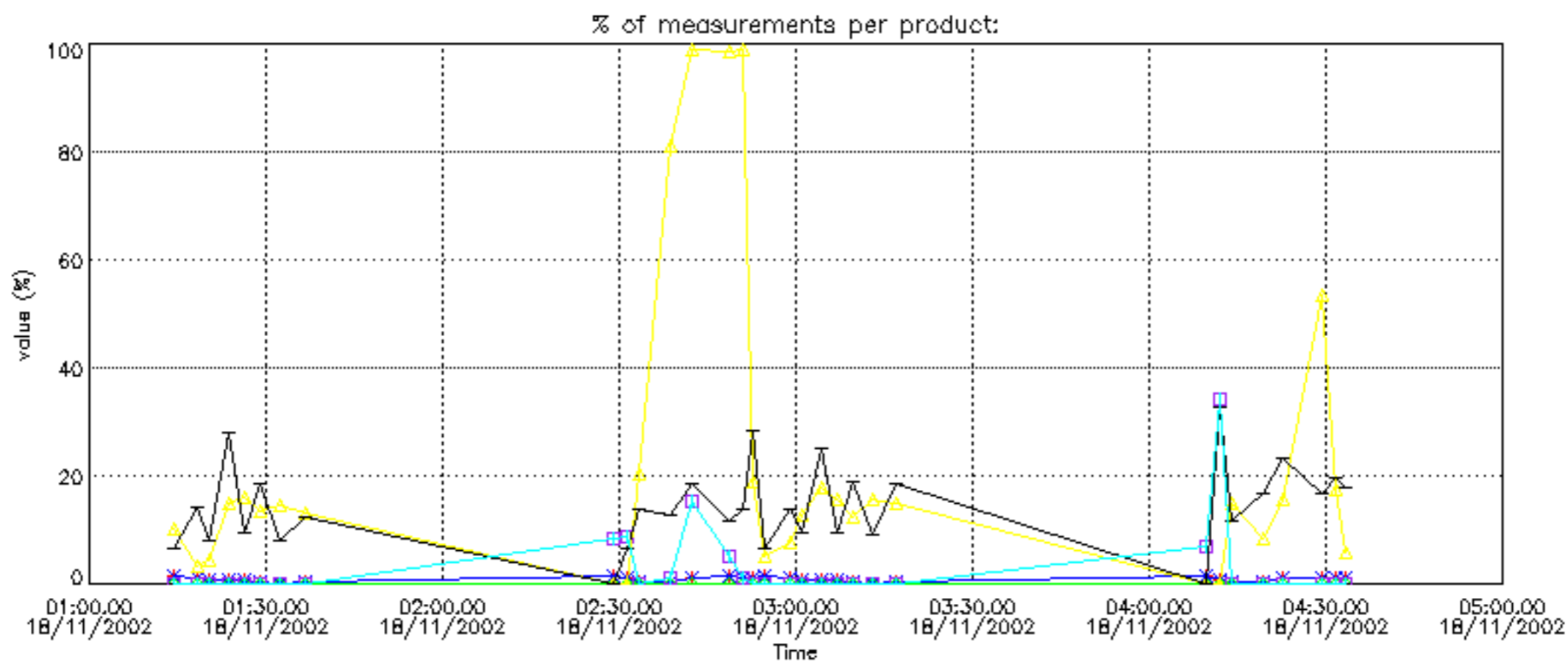


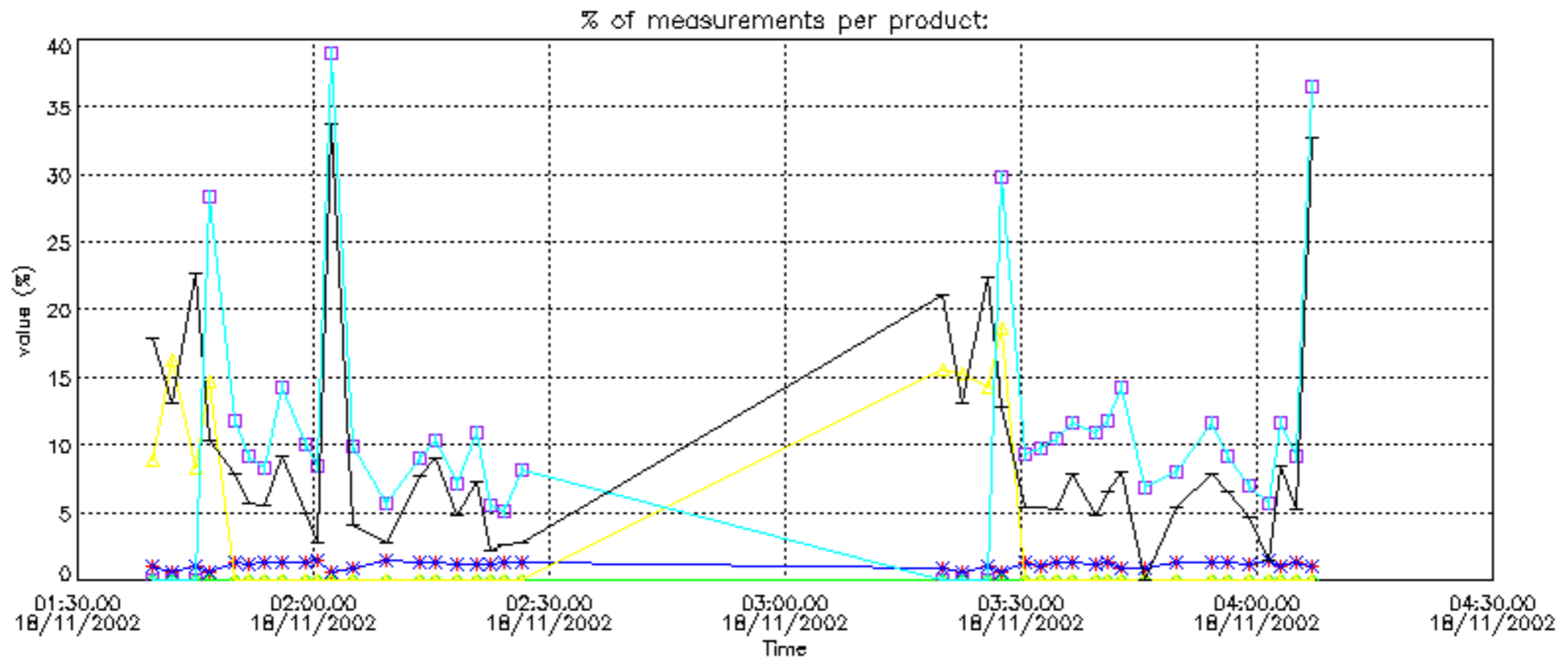
Percentage of flagged data per NO2 profile



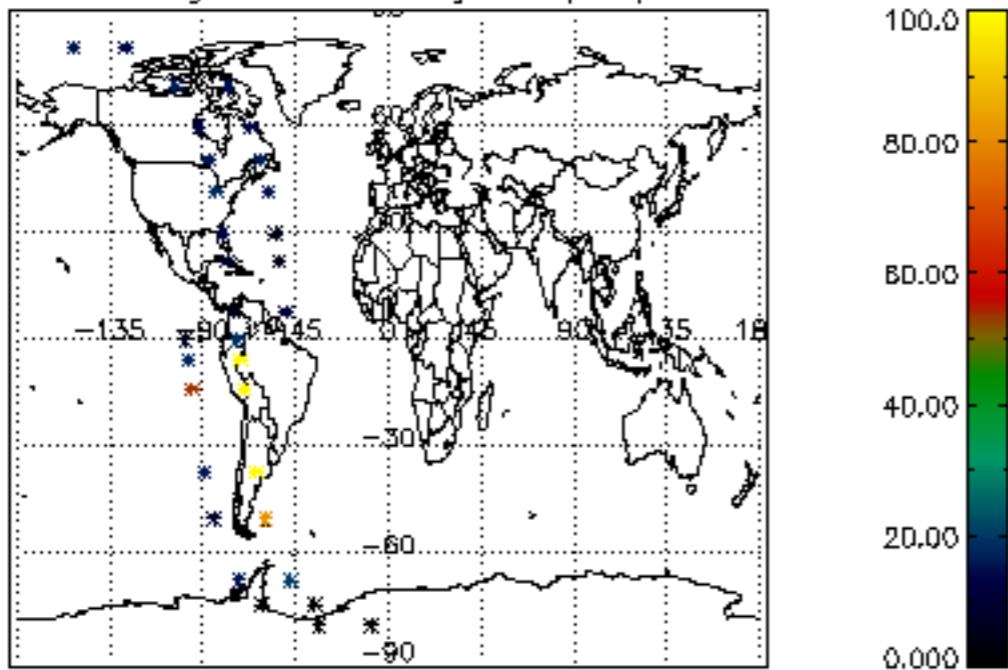
Percentage of flagged data per NO3 profile



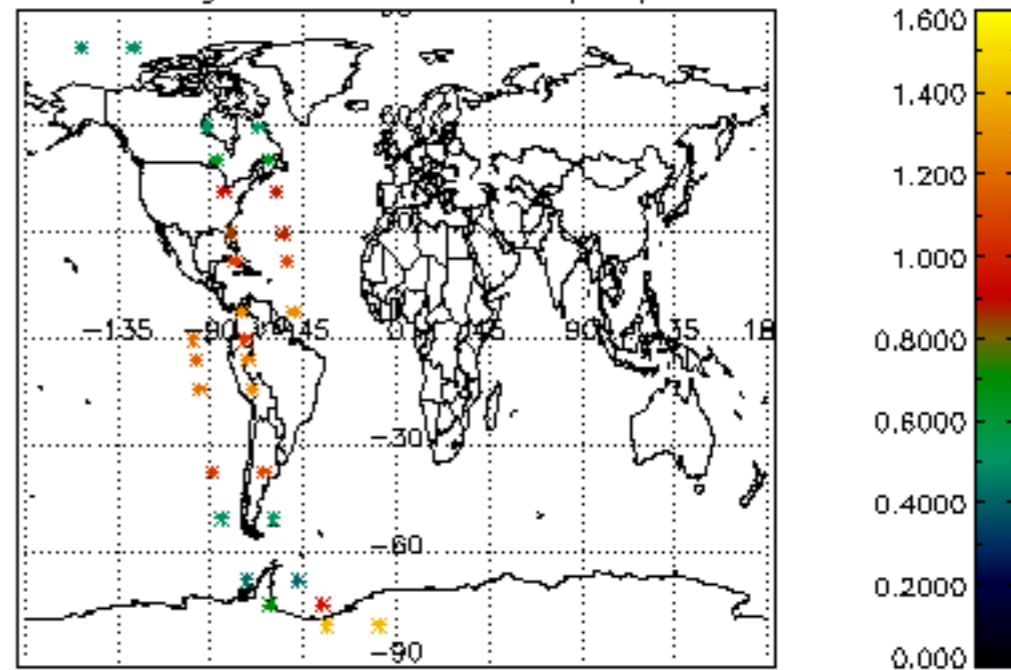




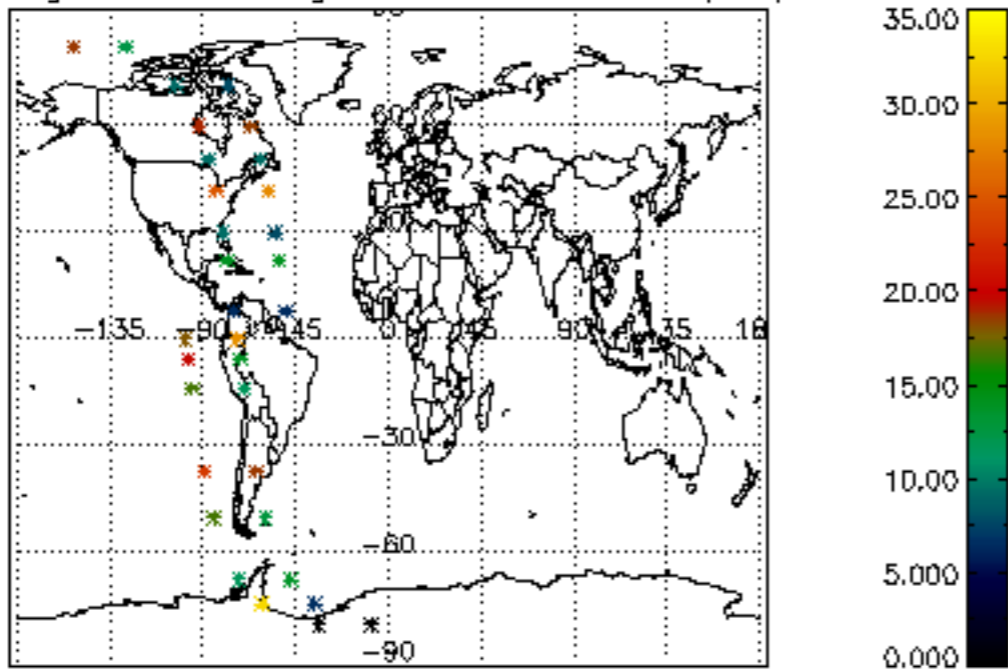
Percentage of cosmic ray hits per profile



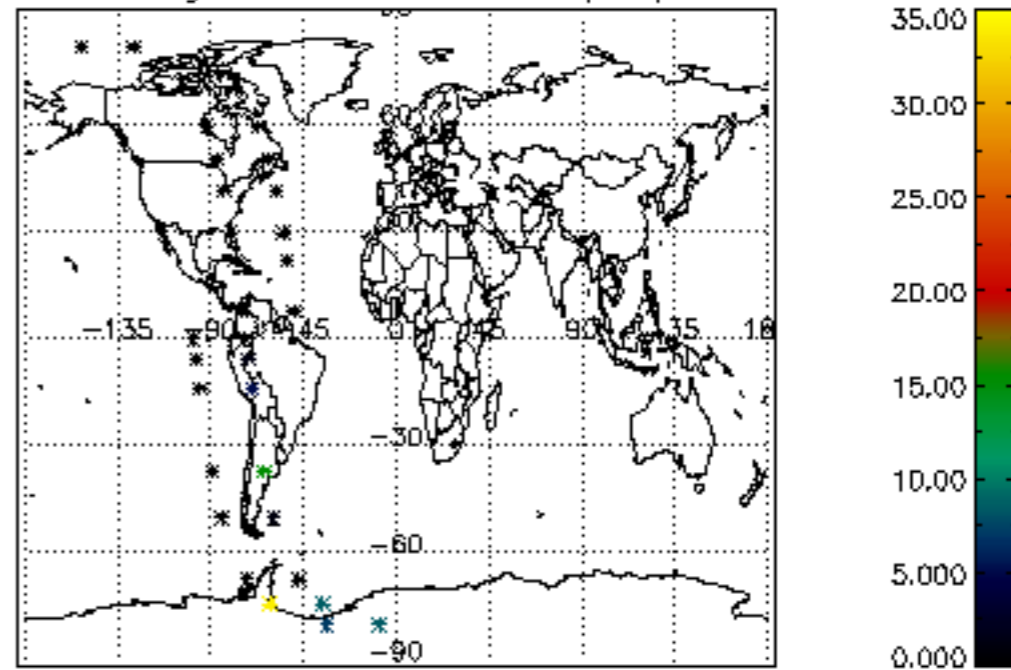
Percentage of datation errors per profile



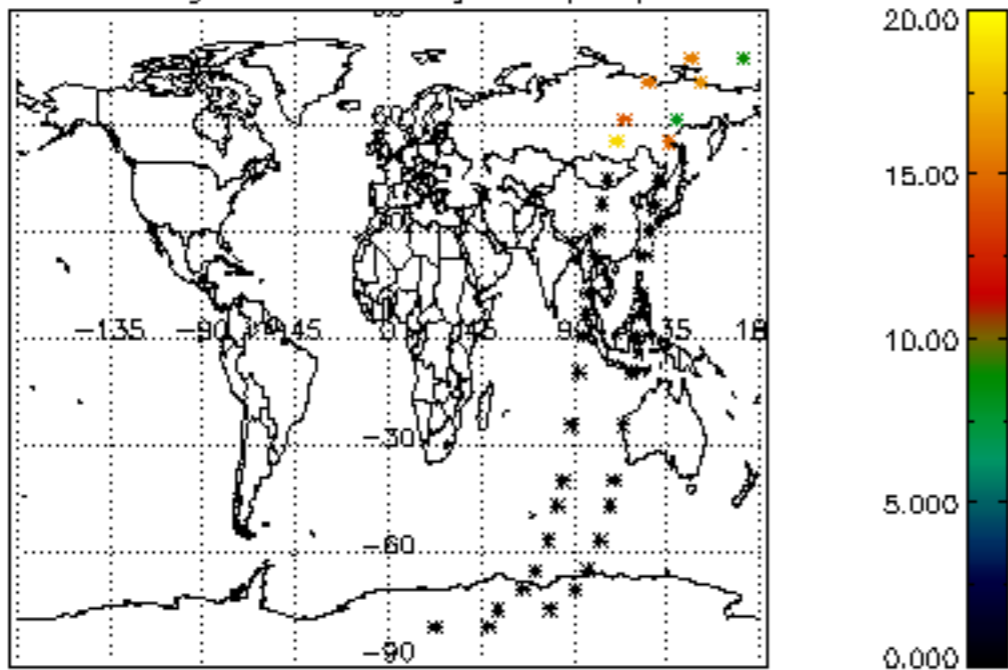
Percentage of star falling outside central band per profile



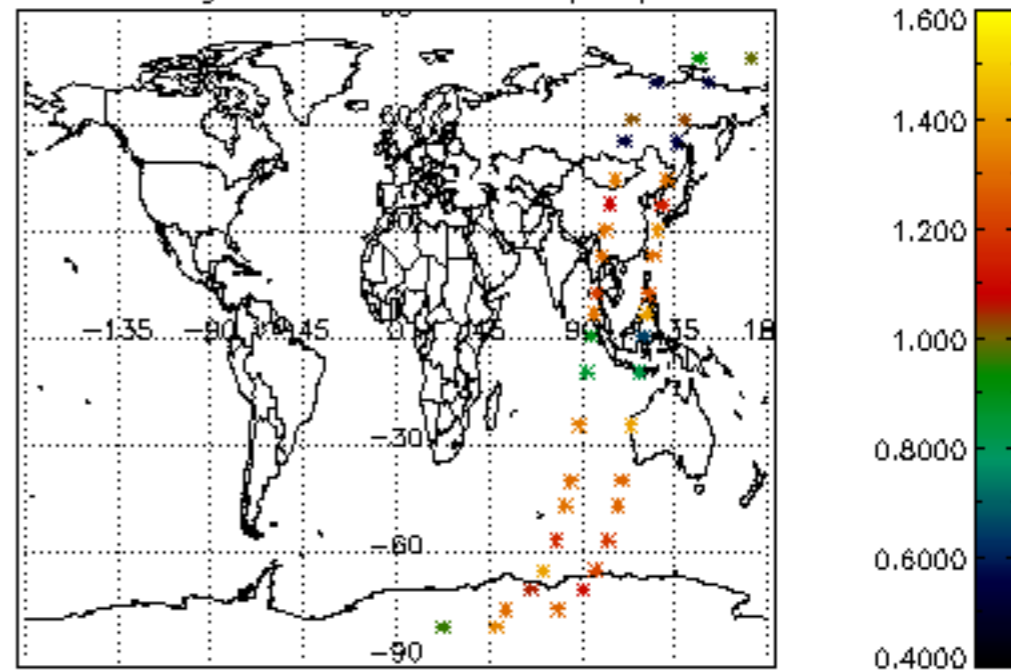
Percentage of saturation errors per profile



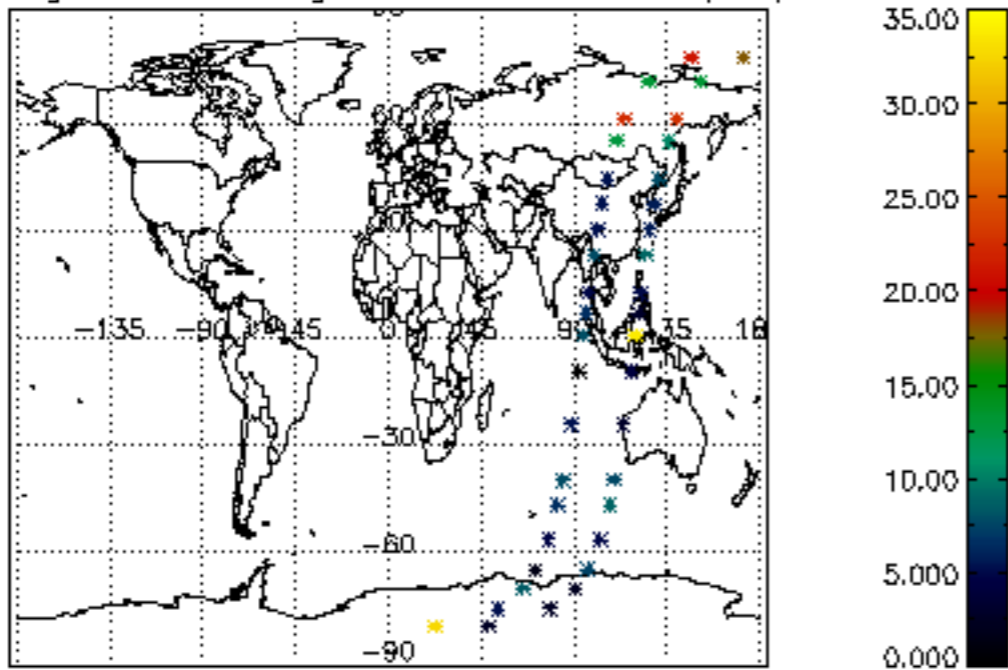
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

