

GOMOS Level 2 Daily Report

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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	17APR2013 17:41:32
Data source version	GOMOS/6.01
Start time of products	21-06-2002 (21JUN2002 00:00:00)
Stop time of products	22-06-2002 (22JUN2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	28
Nb of prods with errors	0

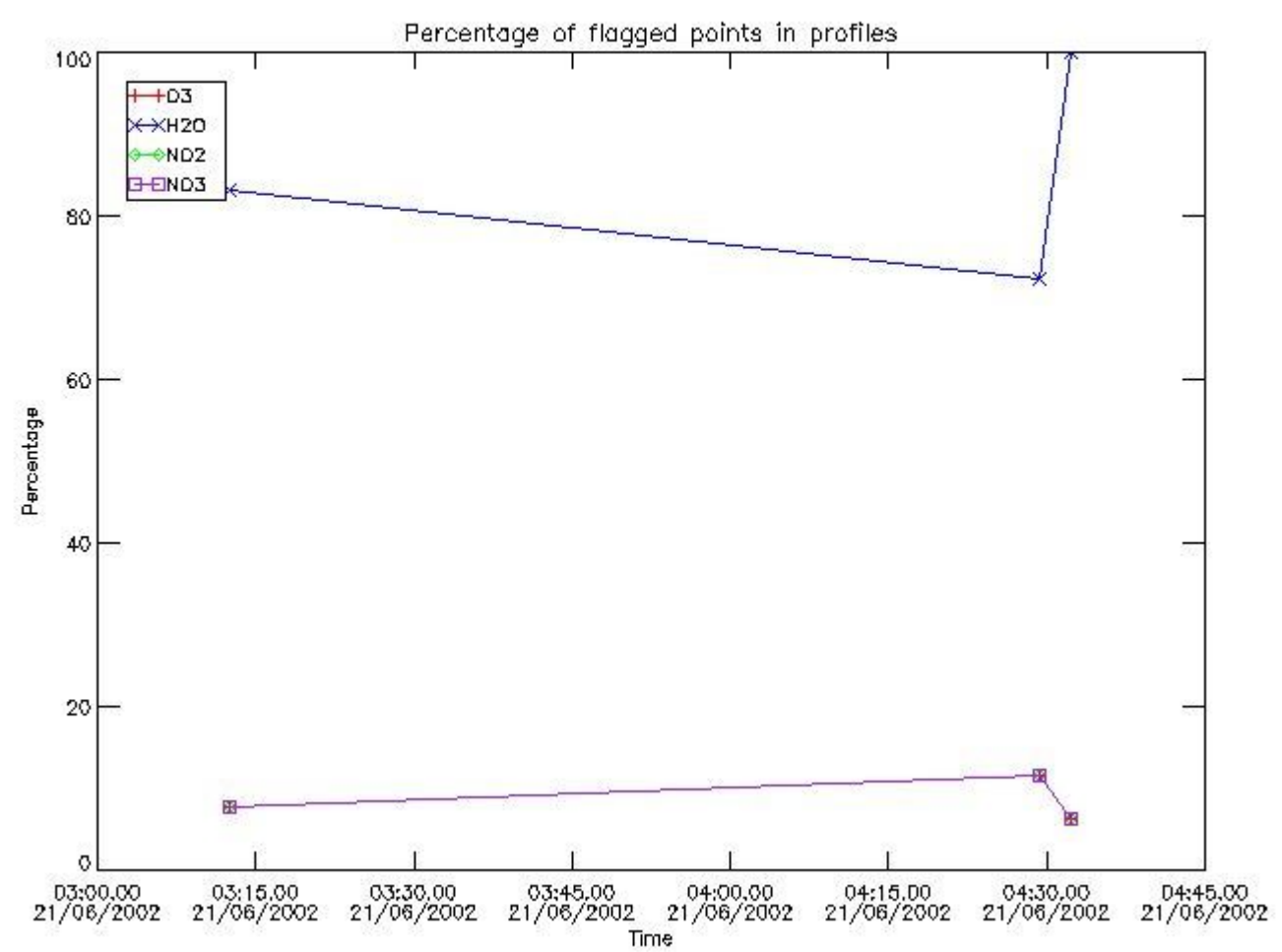
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20020621_031233_000000662007_00047_01604_8361.N1	21-JUN-2002 03:12:33	Dark	65.500	18	24Alp PsA	1.1660	9700.0	131	1604	No
2	GOM_NL__2PRFIN20020621_031500_000000492007_00047_01604_8362.N1	21-JUN-2002 03:15:00	Straylight	49.000	31	Alp Gru	1.7340	15200.	98	1604	No
3	GOM_NL__2PRFIN20020621_031821_000000472007_00047_01604_8363.N1	21-JUN-2002 03:18:21	Straylight	46.500	45	Alp Pav	1.9400	26000.	93	1604	No
4	GOM_NL__2PRFIN20020621_031947_000000382007_00047_01604_8364.N1	21-JUN-2002 03:19:47	Straylight	38.000	43	Alp TrA	1.9100	4250.0	76	1604	No
5	GOM_NL__2PRFIN20020621_032258_000000362007_00047_01604_8365.N1	21-JUN-2002 03:22:58	Straylight	35.500	141	Bet Ara	2.8400	4600.0	71	1604	No
6	GOM_NL__2PRFIN20020621_032422_000000362007_00047_01604_8366.N1	21-JUN-2002 03:24:22	Straylight	36.000	147	Alp Ara	2.8770	26000.	72	1604	No
7	GOM_NL__2PRFIN20020621_032608_000000382007_00047_01604_8367.N1	21-JUN-2002 03:26:08	Twilight	38.000	40	The Sco	1.8590	7100.0	76	1604	No
8	GOM_NL__2PRFIN20020621_032750_000000382007_00047_01604_8368.N1	21-JUN-2002 03:27:50	Twilight	37.500	25	35Lam Sco	1.6200	28000.	75	1604	No
9	GOM_NL__2PRFIN20020621_032941_000000612007_00047_01604_8369.N1	21-JUN-2002 03:29:41	Bright	61.000	57	34Sig Sgr	2.0660	26000.	122	1604	No
10	GOM_NL__2PRFIN20020621_033136_000000392007_00047_01604_8370.N1	21-JUN-2002 03:31:36	Bright	38.500	16	21Alp Sco	1.0200	3000.0	77	1604	No
11	GOM_NL__2PRFIN20020621_033258_000000352007_00047_01604_8371.N1	21-JUN-2002 03:32:58	Bright	34.500	80	7Del Sco	2.3160	30000.	69	1604	No
12	GOM_NL__2PRFIN20020621_033414_000000352007_00047_01604_8372.N1	21-JUN-2002 03:34:14	Bright	35.000	86	35Eta Oph	2.4300	10200.	70	1604	No
13	GOM_NL__2PRFIN20020621_033558_000000332007_00047_01604_8373.N1	21-JUN-2002 03:35:58	Bright	33.000	98	13Zet Oph	2.5710	30000.	66	1604	No
14	GOM_NL__2PRFIN20020621_033804_000000332007_00047_01604_8374.N1	21-JUN-2002 03:38:04	Bright	32.500	120	1Del Oph	2.7340	3200.0	65	1604	No
15	GOM_NL__2PRFIN20020621_034025_000000372007_00047_01604_8375.N1	21-JUN-2002 03:40:25	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	1604	No
16	GOM_NL__2PRFIN20020621_034251_000000382007_00047_01604_8376.N1	21-JUN-2002 03:42:51	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	1604	No
17	GOM_NL__2PRFIN20020621_034823_000001132007_00047_01604_8377.N1	21-JUN-2002 03:48:23	Bright	113.00	11	53Alp Aql	0.76500	8000.0	226	1604	No
18	GOM_NL__2PRFIN20020621_035253_000000432007_00047_01604_8378.N1	21-JUN-2002 03:52:53	Bright	43.000	5	3Alp Lyr	0.033000	11000.	86	1604	No
19	GOM_NL__2PRFIN20020621_035434_000000342007_00047_01604_8379.N1	21-JUN-2002 03:54:34	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	1604	No
20	GOM_NL__2PRFIN20020621_035626_000000302007_00047_01604_8380.N1	21-JUN-2002 03:56:26	Bright	30.000	119	14Eta Dra	2.7270	4700.0	60	1604	No
21	GOM_NL__2PRFIN20020621_040301_000000632007_00047_01604_8381.N1	21-JUN-2002 04:03:01	Bright	63.000	19	50Alp Cyg	1.2460	10500.	126	1604	No
22	GOM_NL__2PRFIN20020621_041152_000000392007_00047_01604_8382.N1	21-JUN-2002 04:11:52	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	1604	No
23	GOM_NL__2PRFIN20020621_041457_000000322007_00047_01604_8383.N1	21-JUN-2002 04:14:57	Bright	31.500	160	23Gam Per	2.9300	4700.0	63	1604	No
24	GOM_NL__2PRFIN20020621_041823_000000392007_00047_01604_8384.N1	21-JUN-2002 04:18:23	Bright	38.500	73	57Gam1And	2.2600	13100.	77	1604	No
25	GOM_NL__2PRFIN20020621_042045_000000402007_00047_01604_8385.N1	21-JUN-2002 04:20:45	Bright	40.000	173	4Bet Tri	3.0040	8900.0	80	1604	No
26	GOM_NL__2PRFIN20020621_042431_000000502007_00047_01604_8386.N1	21-JUN-2002 04:24:31	Twilight	50.000	50	13Alp Ari	2.0070	4250.0	100	1604	No
27	GOM_NL__2PRFIN20020621_042918_000000402007_00047_01604_8387.N1	21-JUN-2002 04:29:18	Dark	40.000	94	92Alp Cet	2.5260	3100.0	80	1604	No
28	GOM_NL__2PRFIN20020621_043222_000000832007_00047_01604_8388.N1	21-JUN-2002 04:32:22	Dark	82.500	140	88Gam Peg	2.8340	26000.	165	1604	No

3. Quality information per product

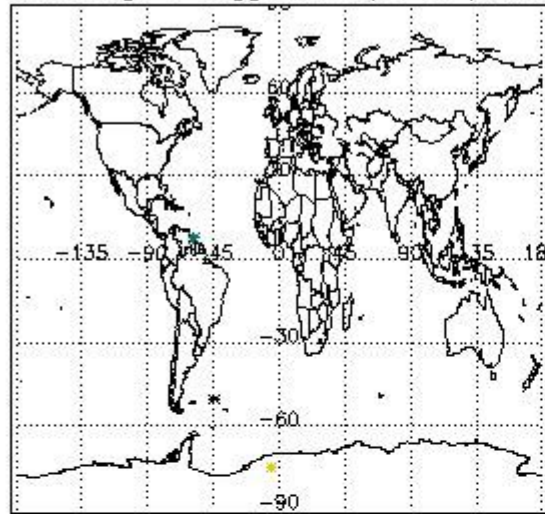
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

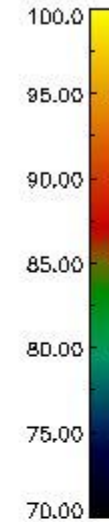
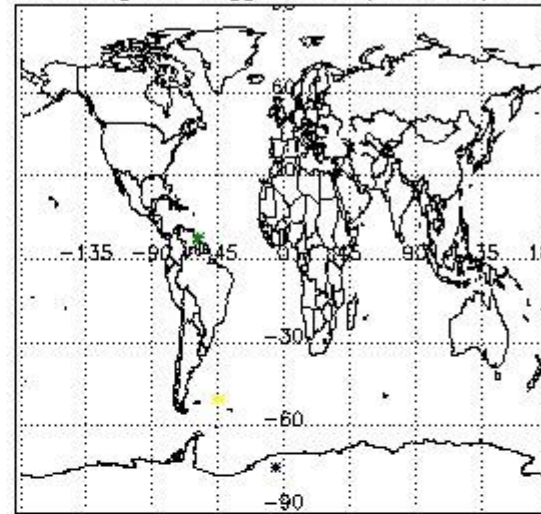


3.2 Plot quality information per product (world map)

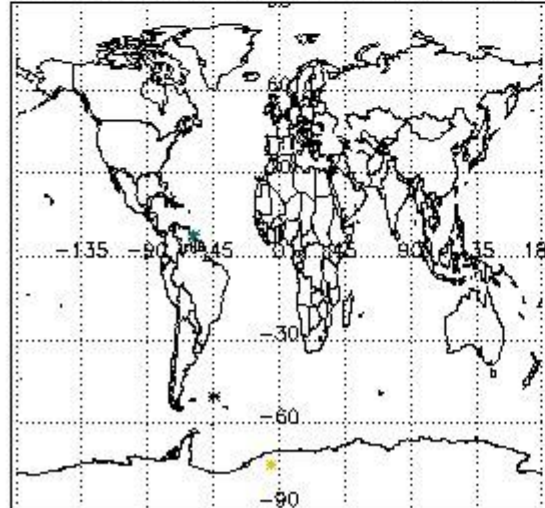
Percentage of flagged data per O3 profile



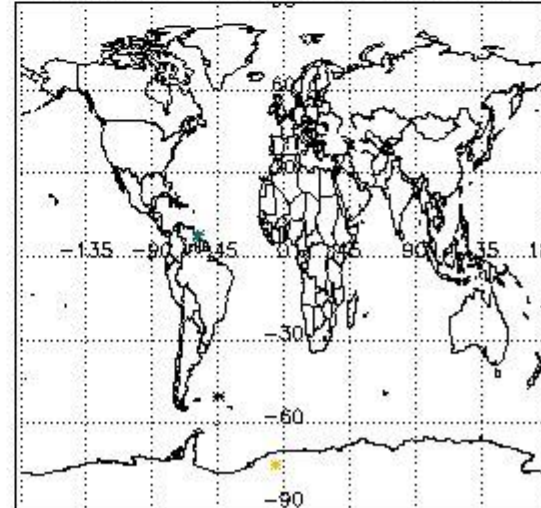
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

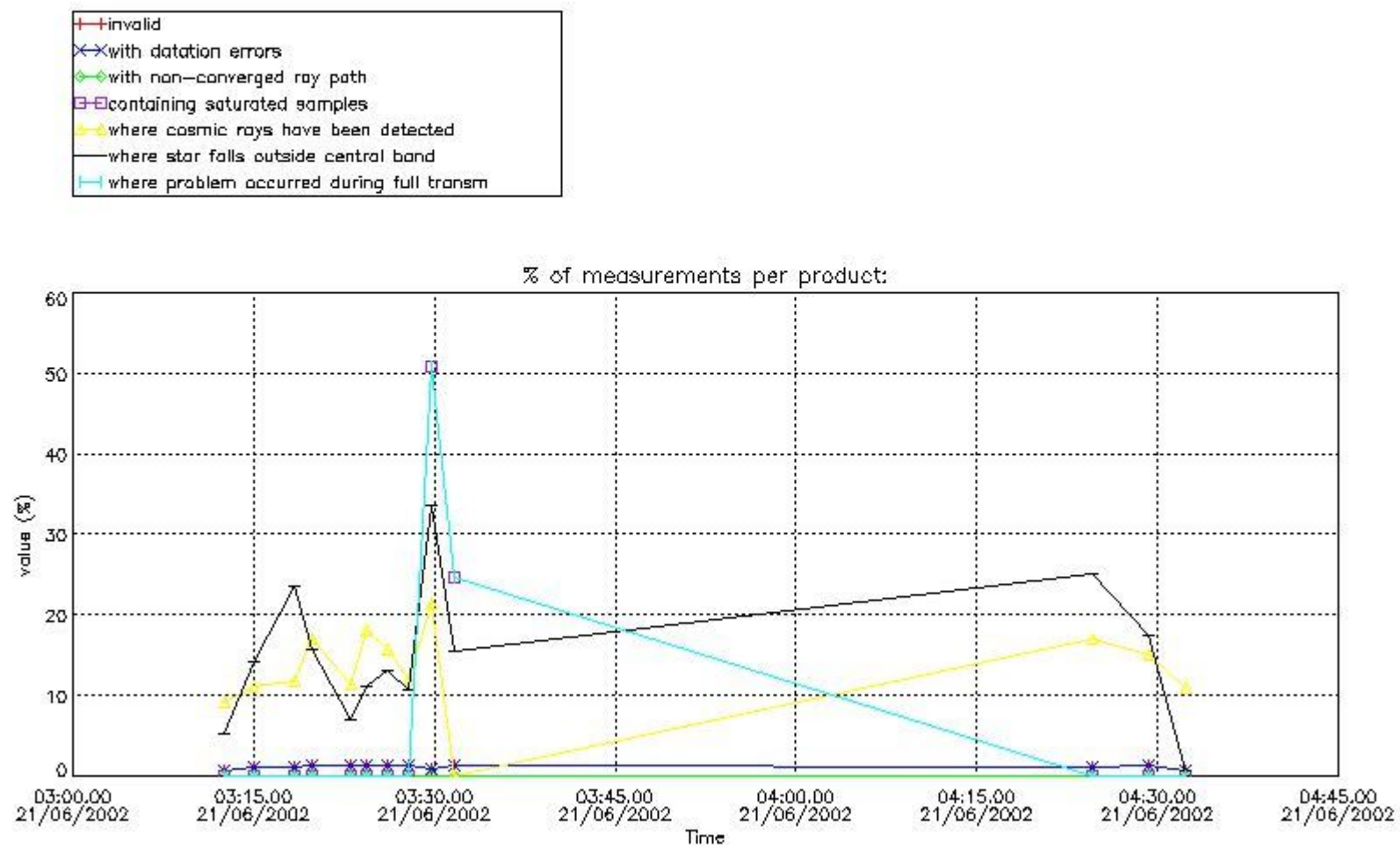


4. Level 1 quality information per product

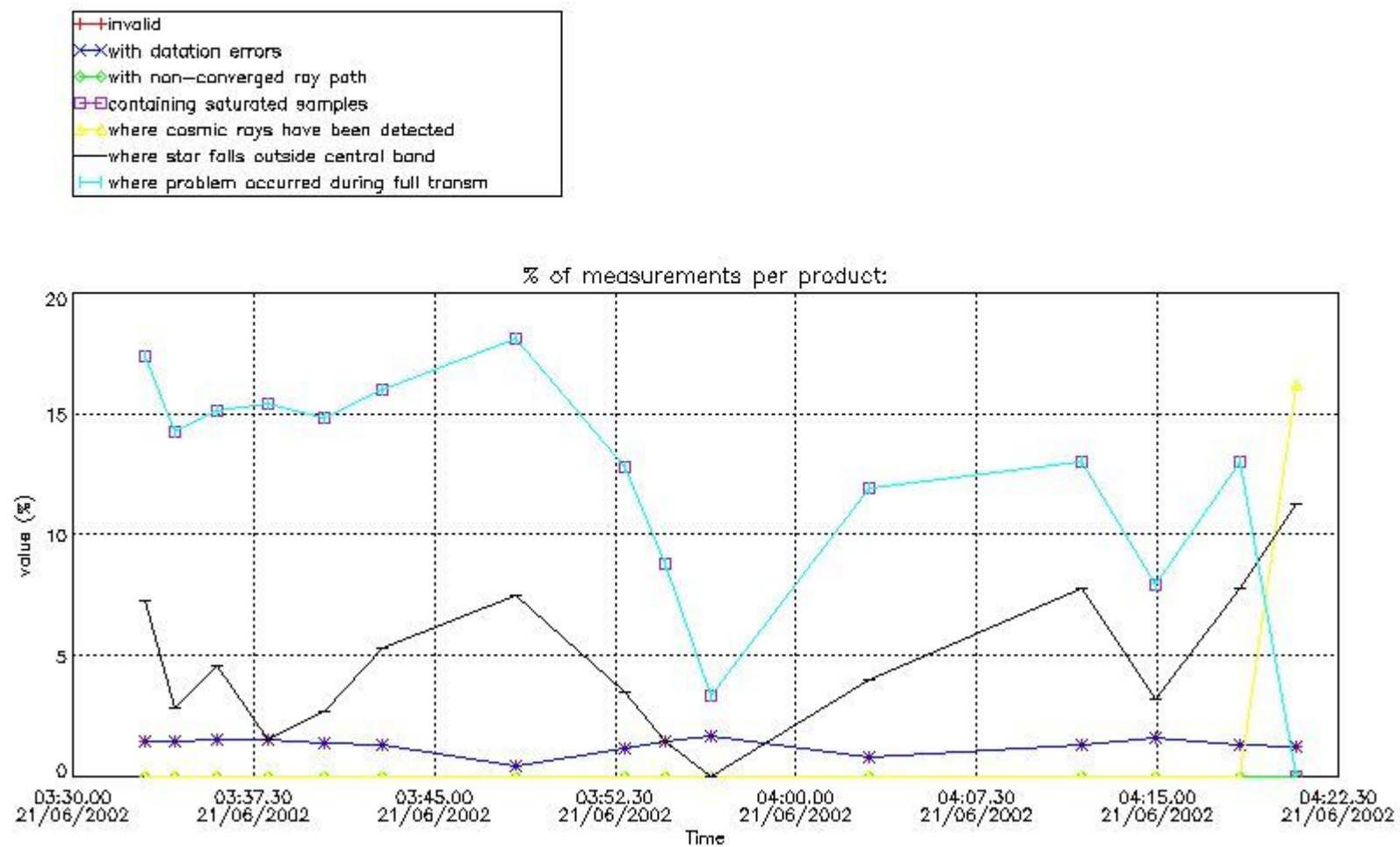
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



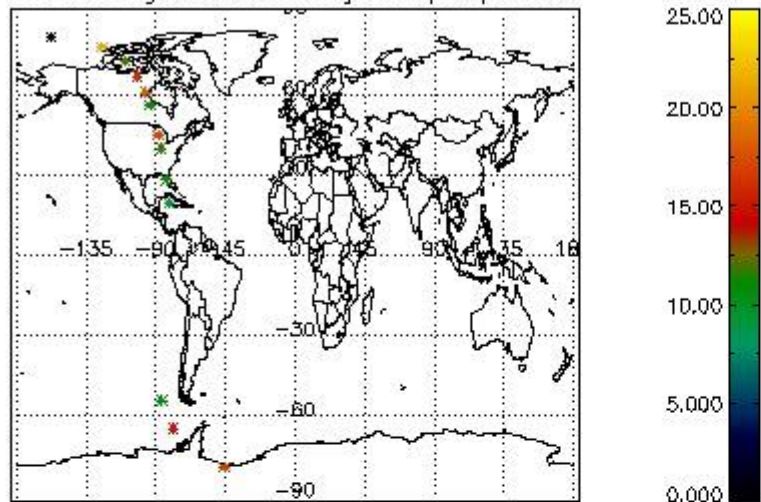
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



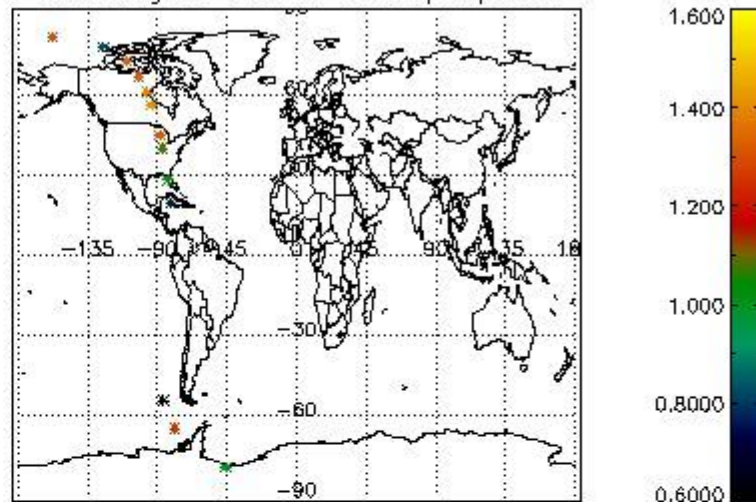
4.2 Plot quality information per product coming from level 1b processing (world map)

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

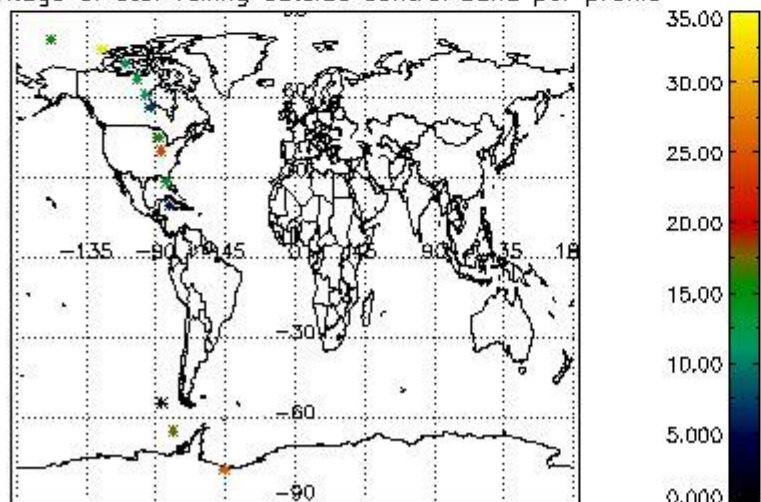
Percentage of cosmic ray hits per profile



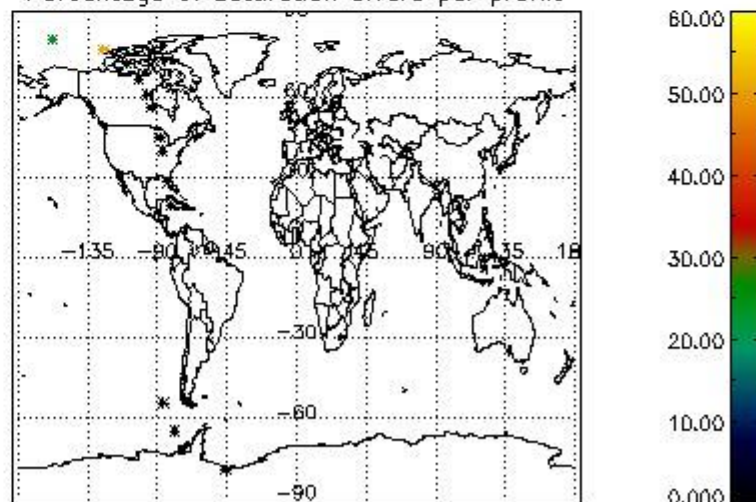
Percentage of datation errors per profile



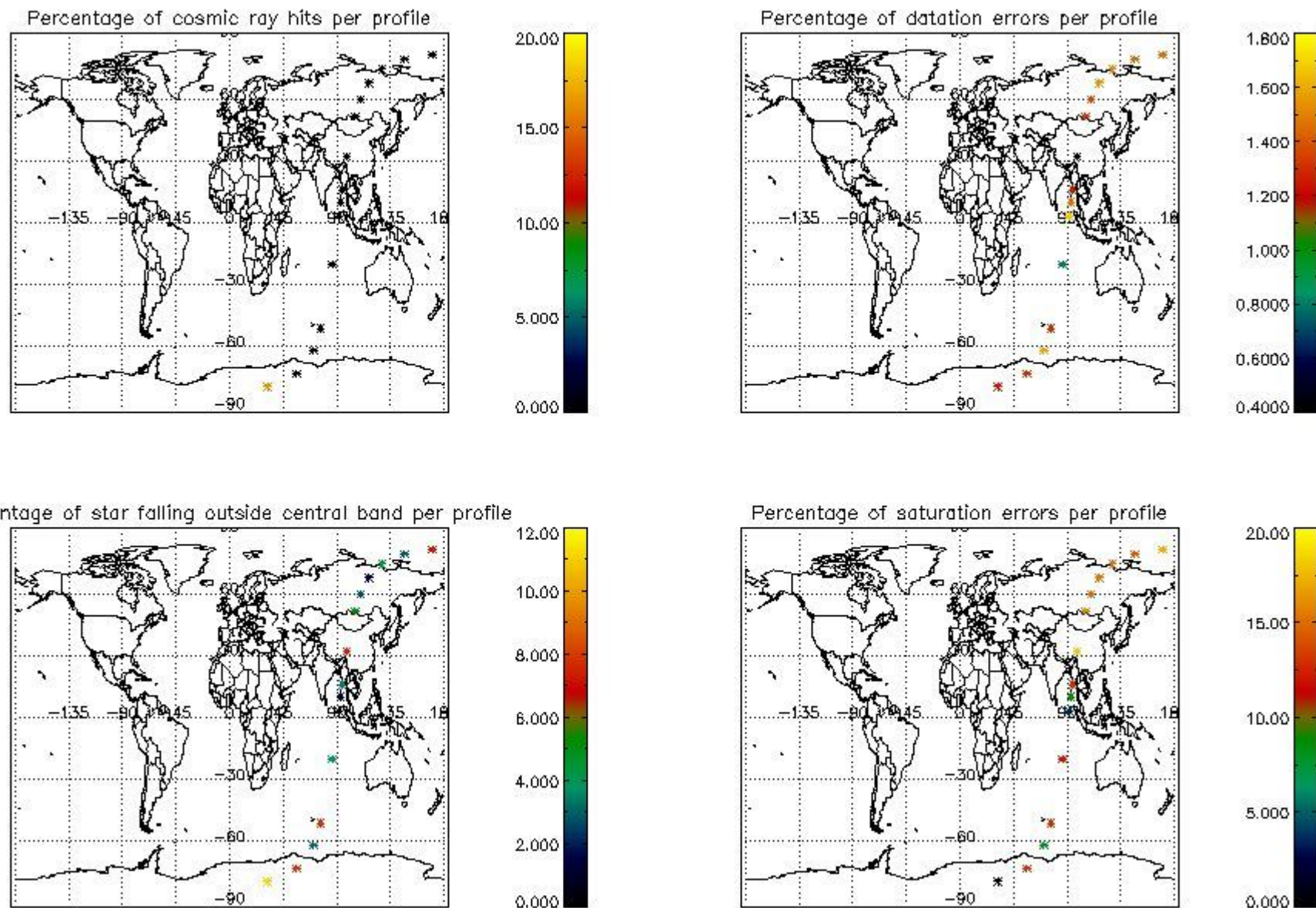
Percentage of star falling outside central band per profile



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

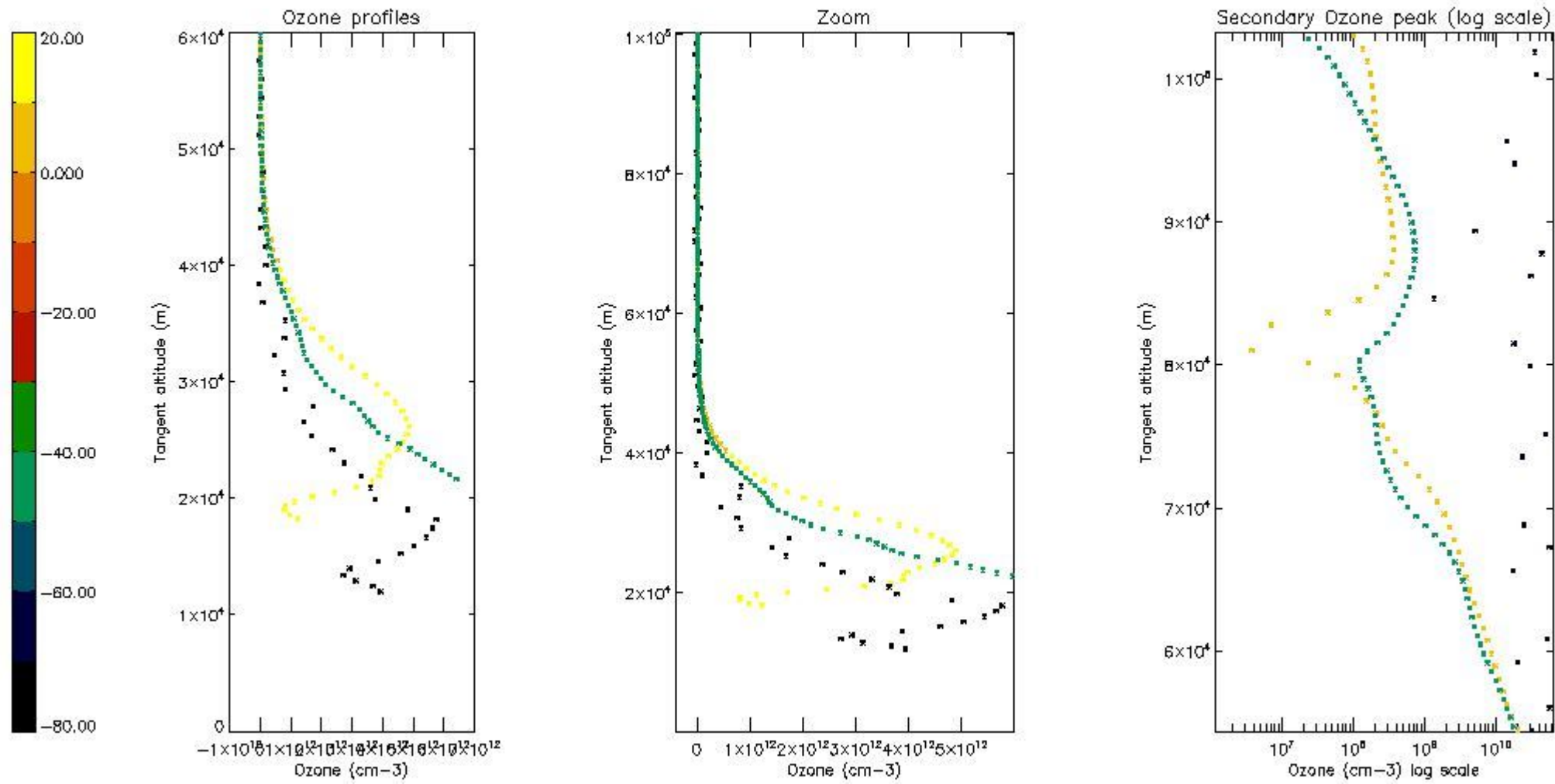
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	16
STD < 20	11

STD < 10	10
STD < 5	8

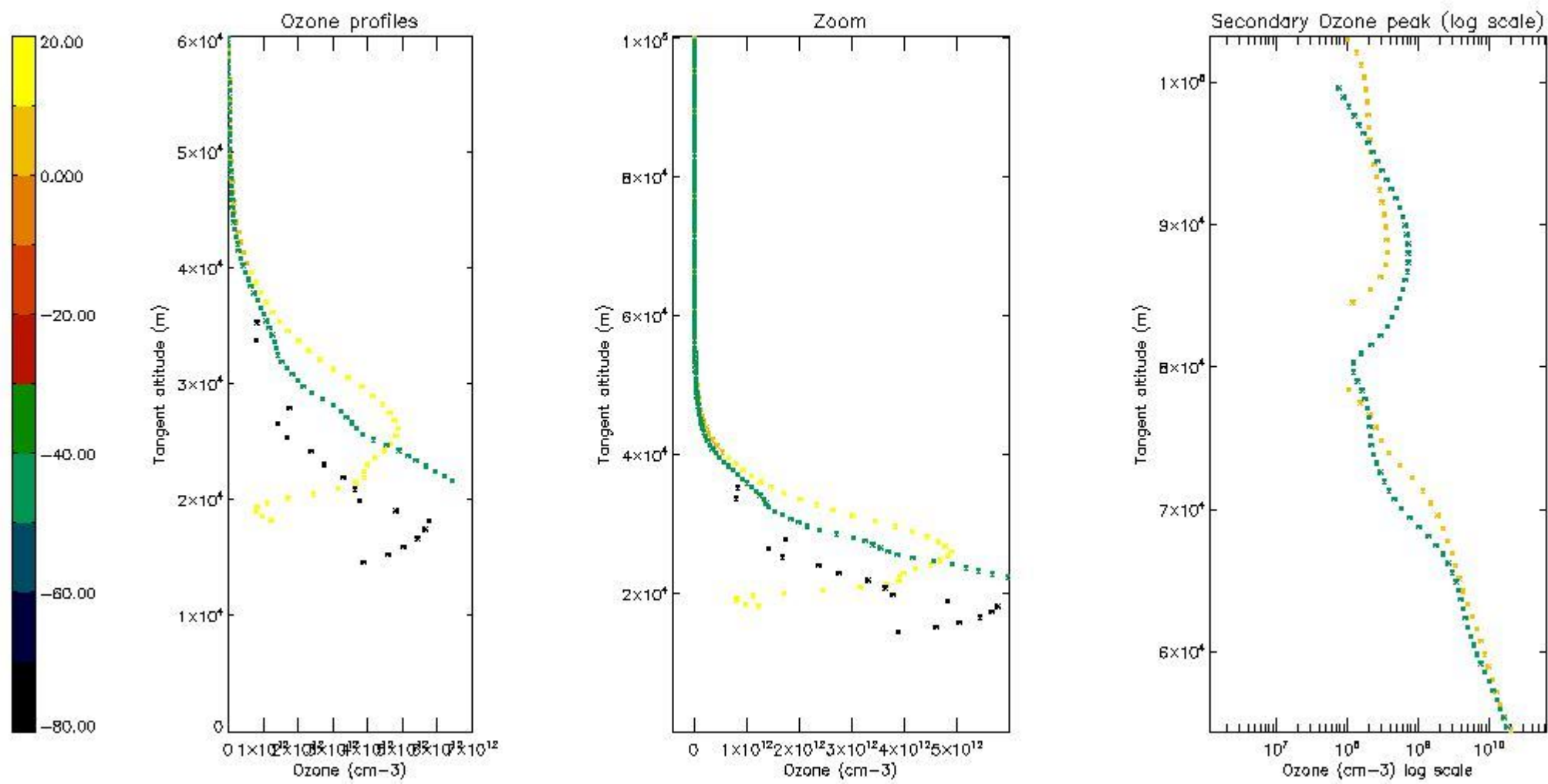
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



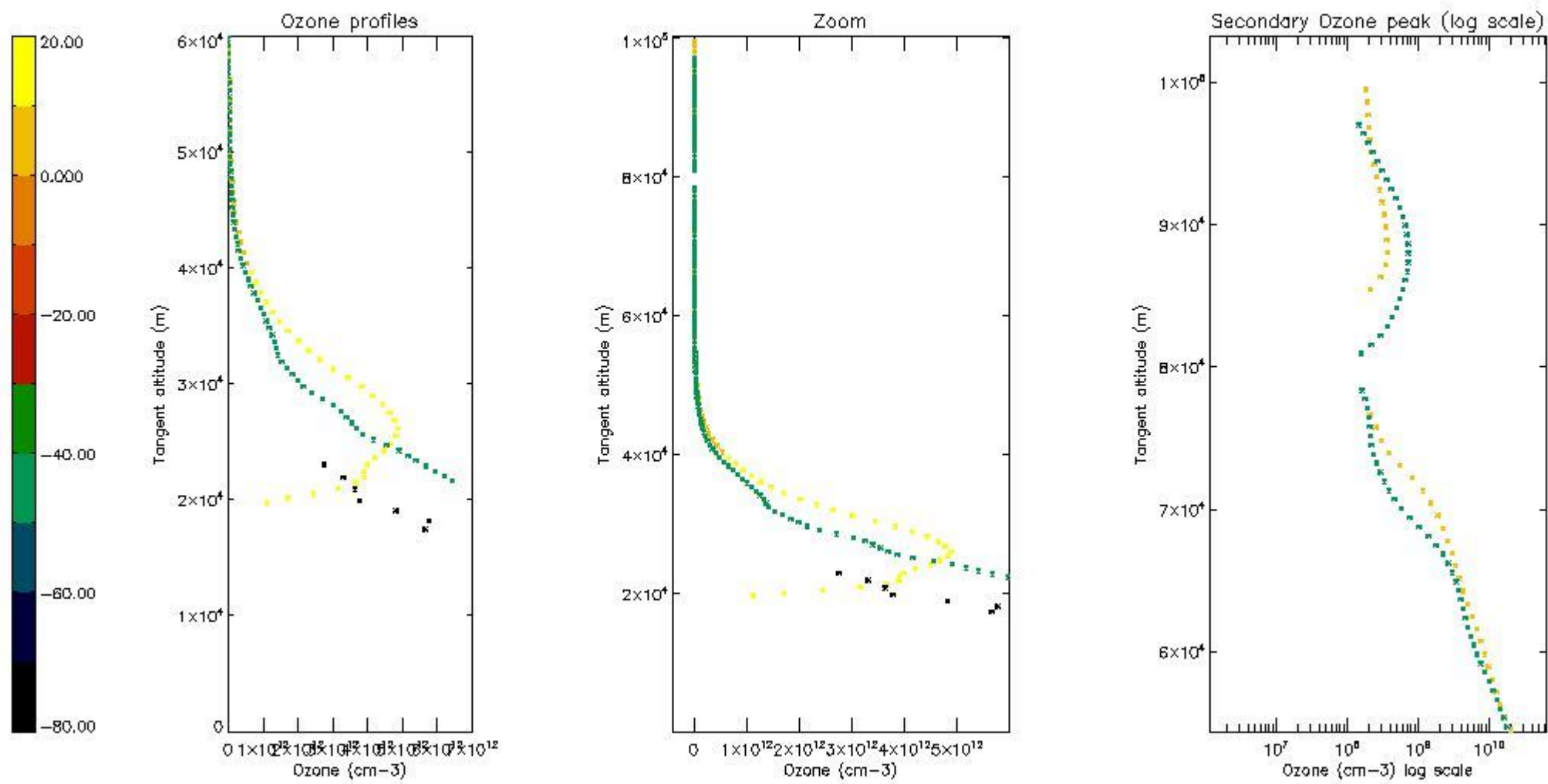
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



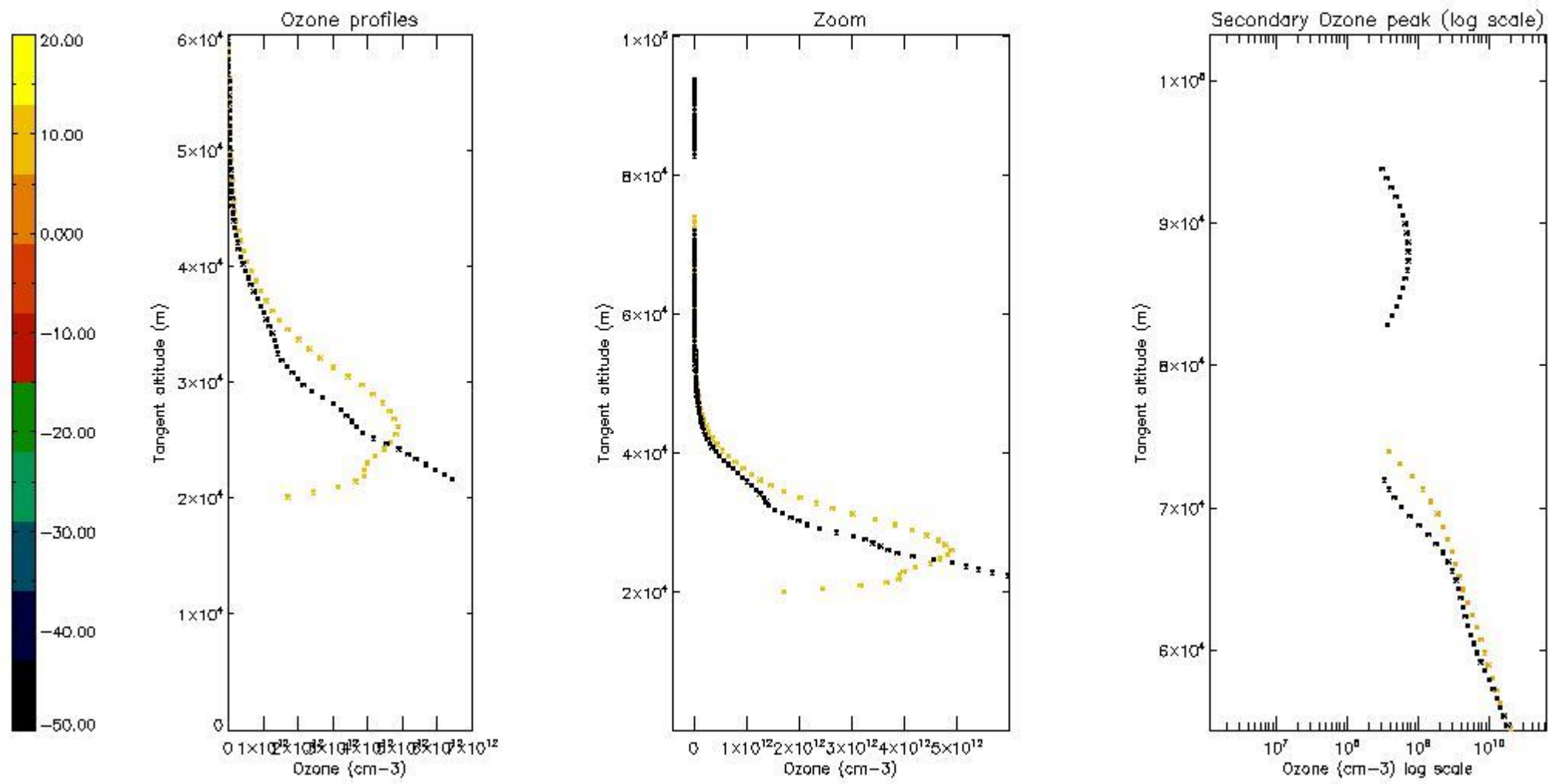
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



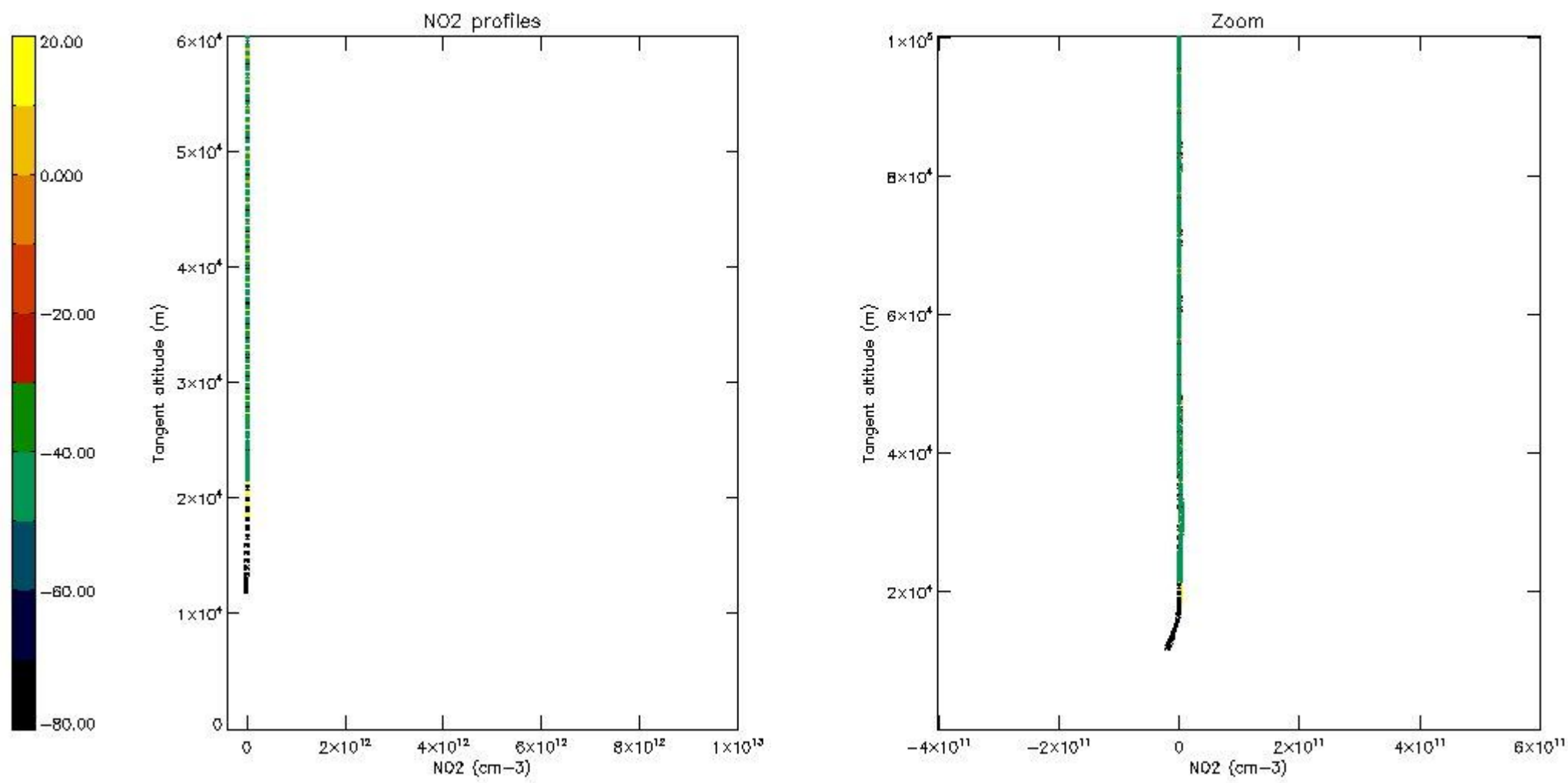
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



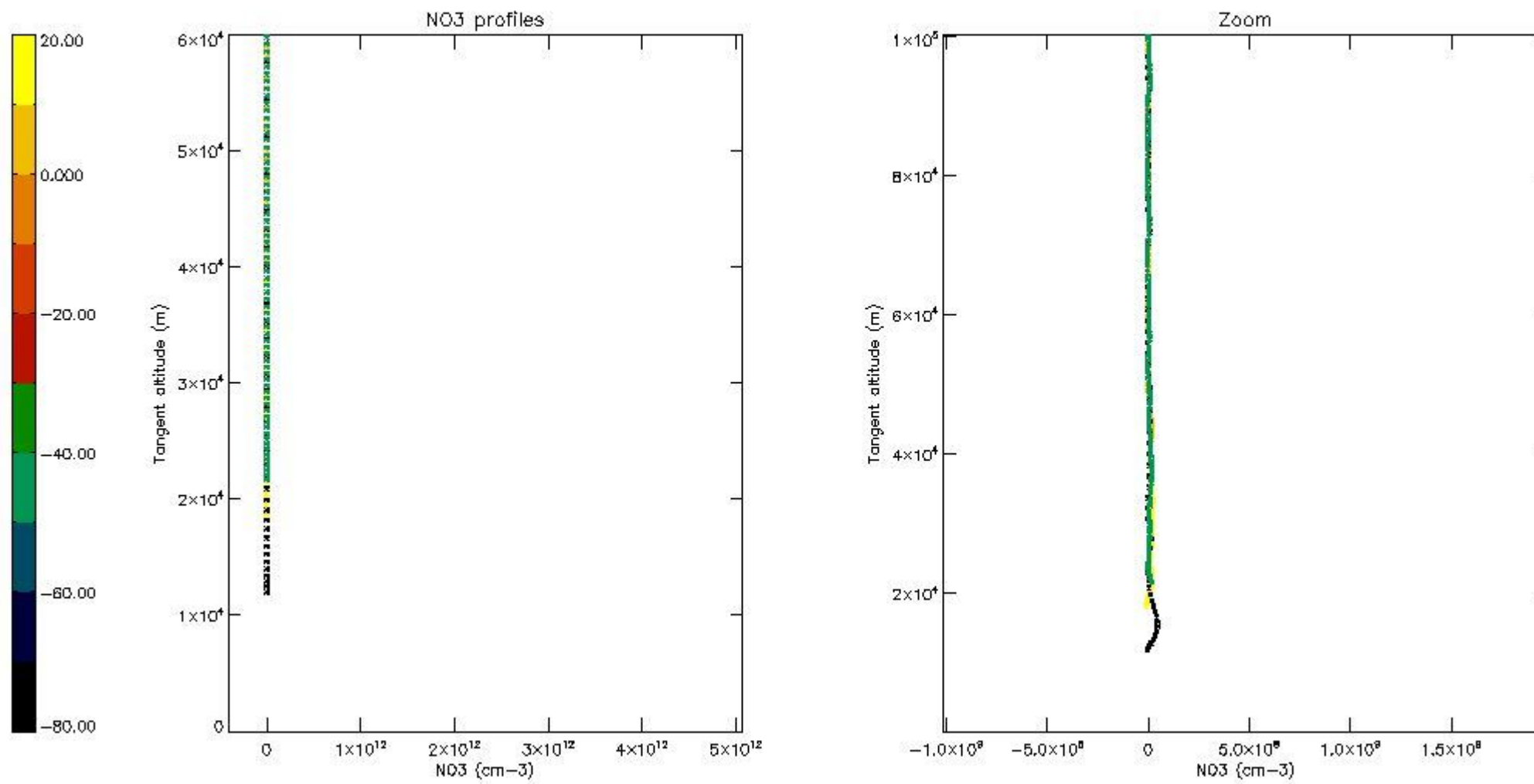
5.6 Plot NO₂ profiles for all STD (dark without errors)

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_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	21-JUN-2002 03:12:33
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-JUN-2002 03:12:33
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-JUN-2002 03:12:33

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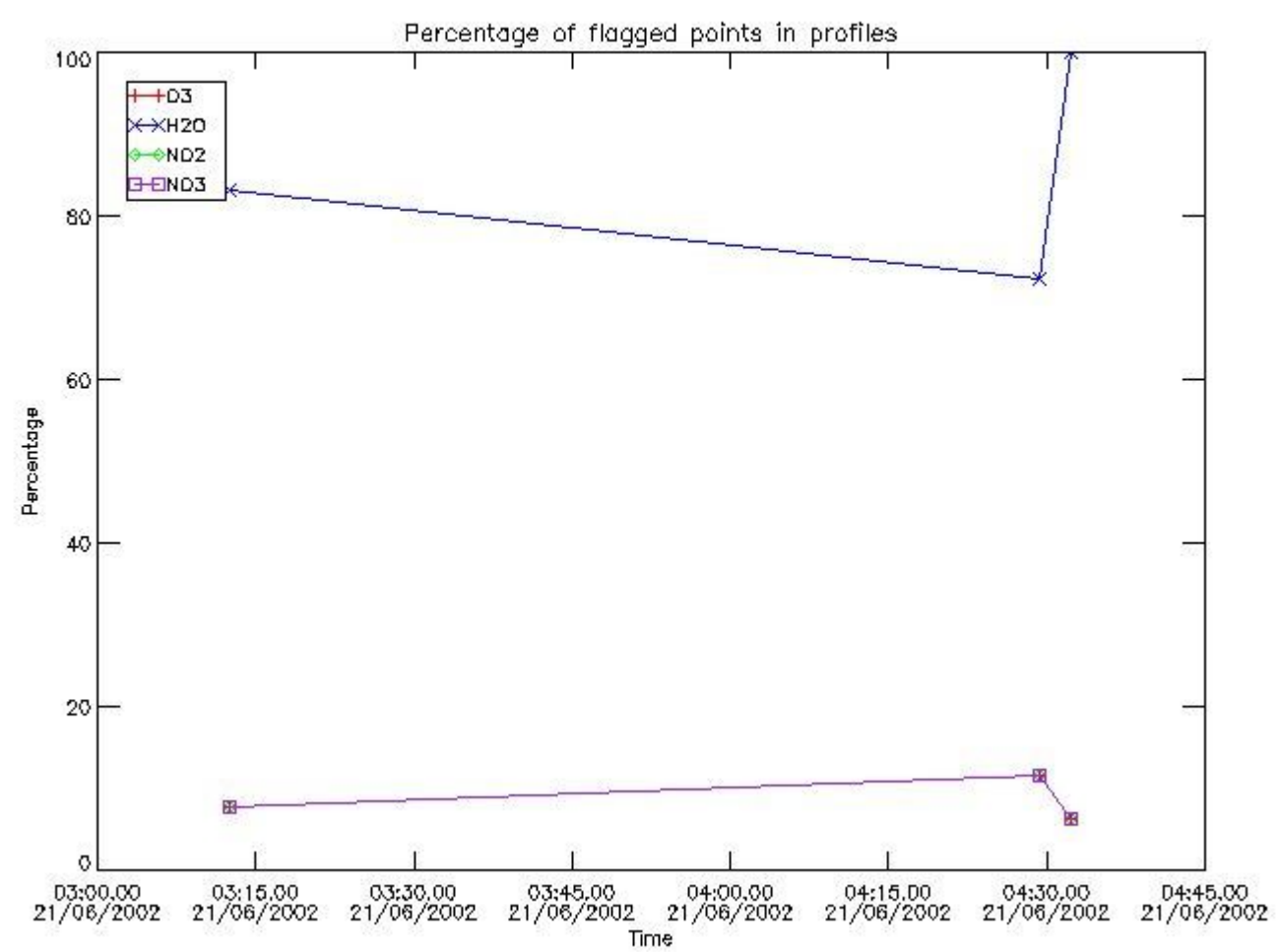
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21	GOM_NL__2PRFIN20020621_040301_000000632007_00047_01604_8381.N1	21-JUN-2002 04:03:01	Bright	63.000	19	50Alp Cyg	1.2460	10500.	126	1604	No
22	GOM_NL__2PRFIN20020621_041152_000000392007_00047_01604_8382.N1	21-JUN-2002 04:11:52	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	1604	No
23	GOM_NL__2PRFIN20020621_041457_000000322007_00047_01604_8383.N1	21-JUN-2002 04:14:57	Bright	31.500	160	23Gam Per	2.9300	4700.0	63	1604	No
24	GOM_NL__2PRFIN20020621_041823_000000392007_00047_01604_8384.N1	21-JUN-2002 04:18:23	Bright	38.500	73	57Gam1And	2.2600	13100.	77	1604	No
25	GOM_NL__2PRFIN20020621_042045_000000402007_00047_01604_8385.N1	21-JUN-2002 04:20:45	Bright	40.000	173	4Bet Tri	3.0040	8900.0	80	1604	No
26	GOM_NL__2PRFIN20020621_042431_000000502007_00047_01604_8386.N1	21-JUN-2002 04:24:31	Twilight	50.000	50	13Alp Ari	2.0070	4250.0	100	1604	No
27	GOM_NL__2PRFIN20020621_042918_000000402007_00047_01604_8387.N1	21-JUN-2002 04:29:18	Dark	40.000	94	92Alp Cet	2.5260	3100.0	80	1604	No
28	GOM_NL__2PRFIN20020621_043222_000000832007_00047_01604_8388.N1	21-JUN-2002 04:32:22	Dark	82.500	140	88Gam Peg	2.8340	26000.	165	1604	No

3. Quality information per product

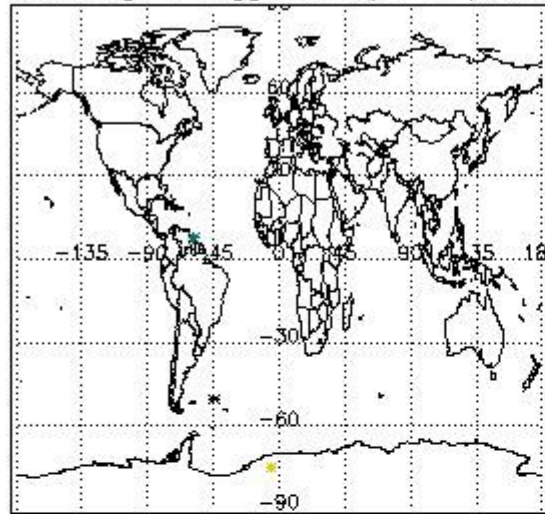
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

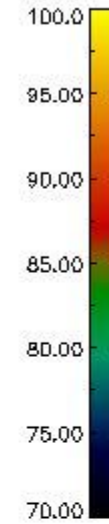
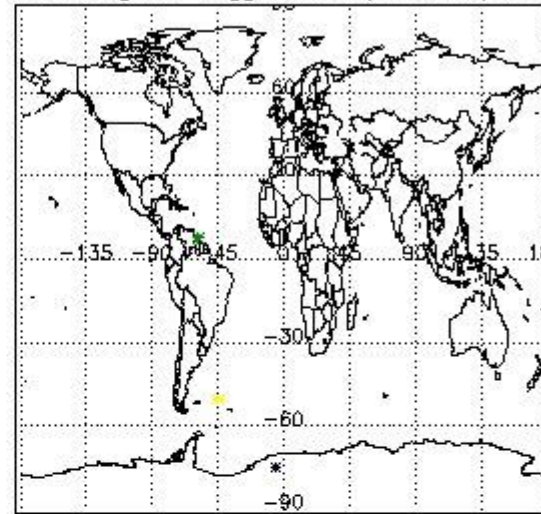


3.2 Plot quality information per product (world map)

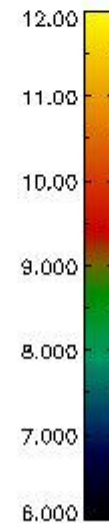
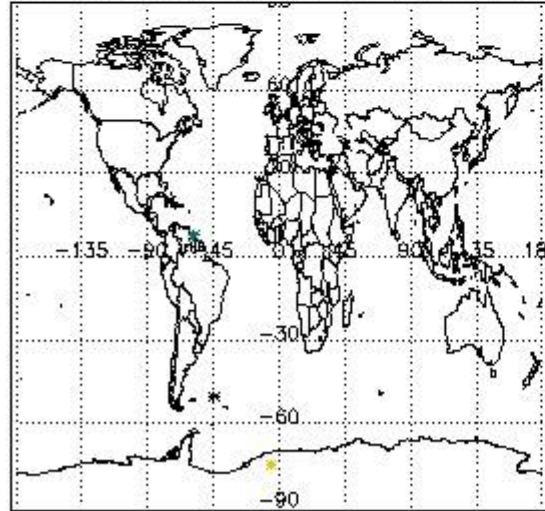
Percentage of flagged data per O3 profile



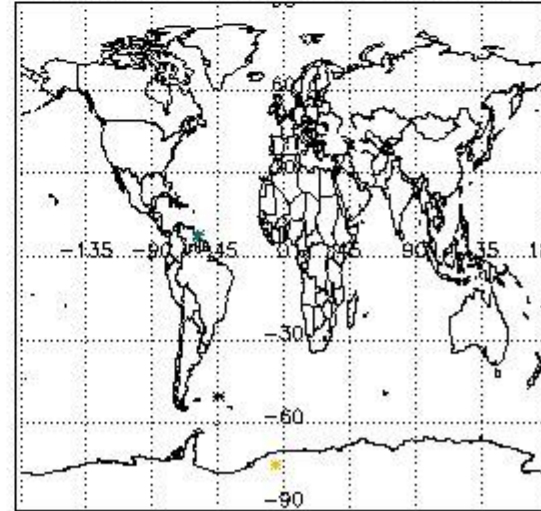
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

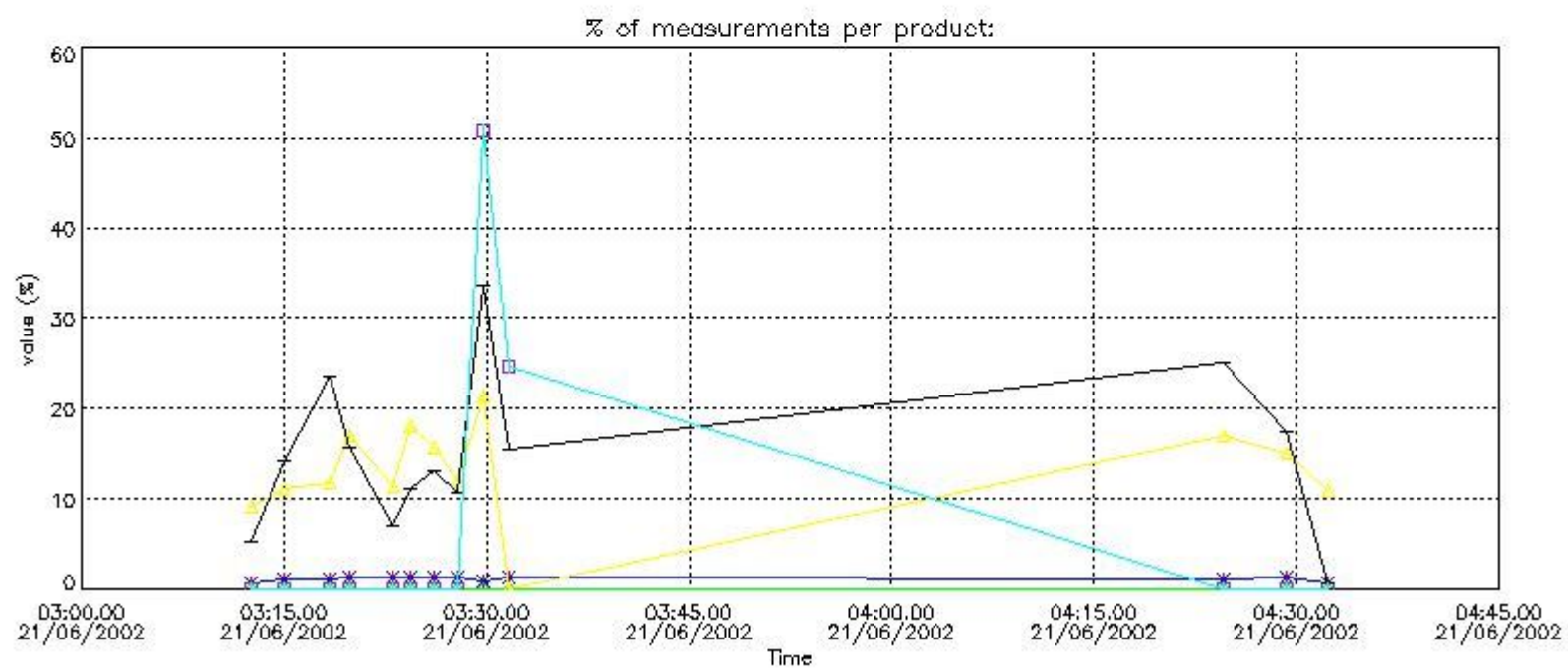


4. Level 1 quality information per product

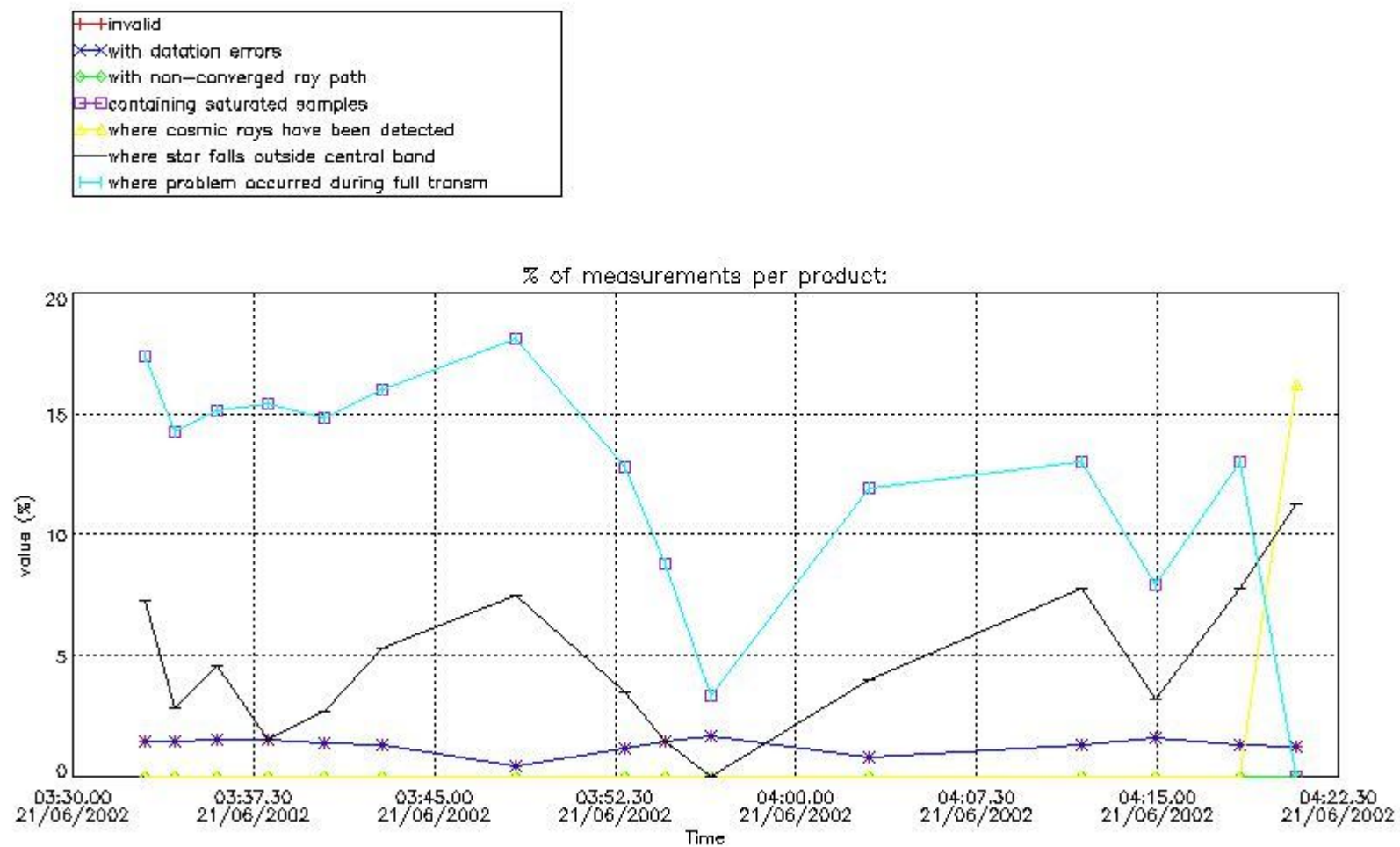
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



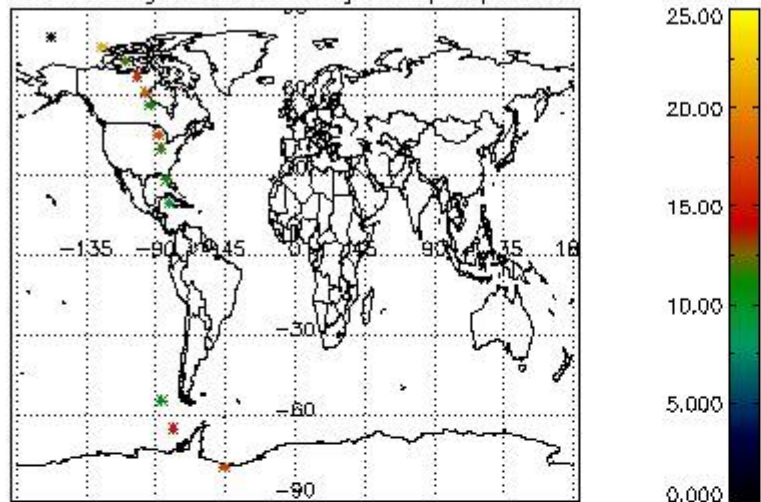
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



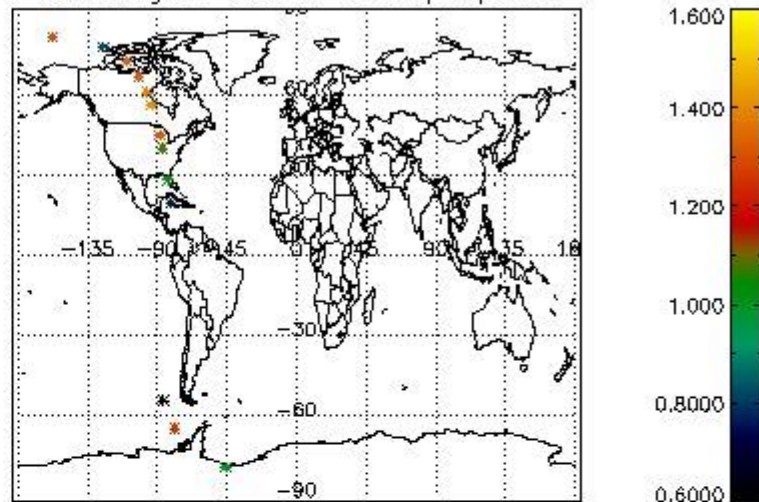
4.2 Plot quality information per product coming from level 1b processing (world map)

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

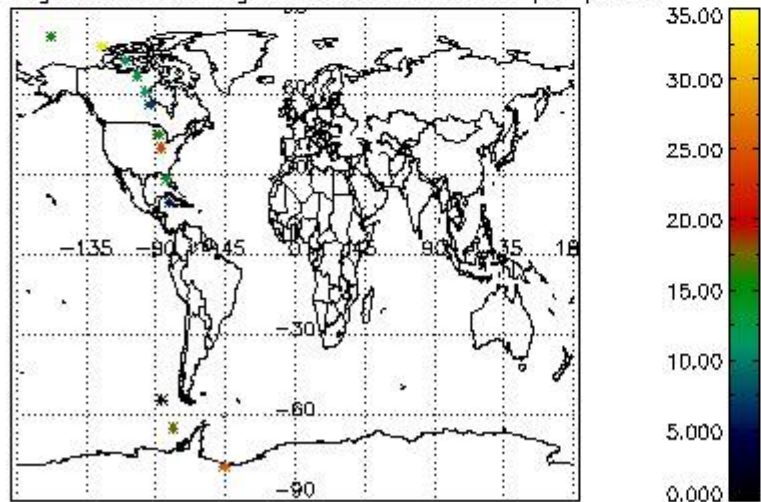
Percentage of cosmic ray hits per profile



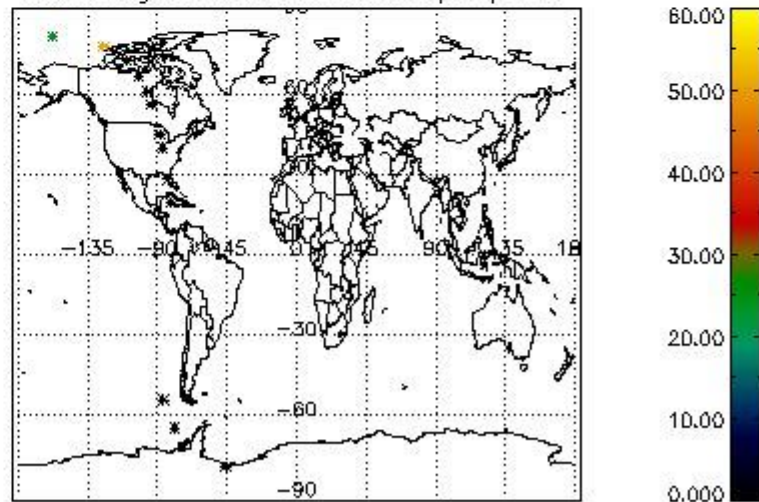
Percentage of datation errors per profile



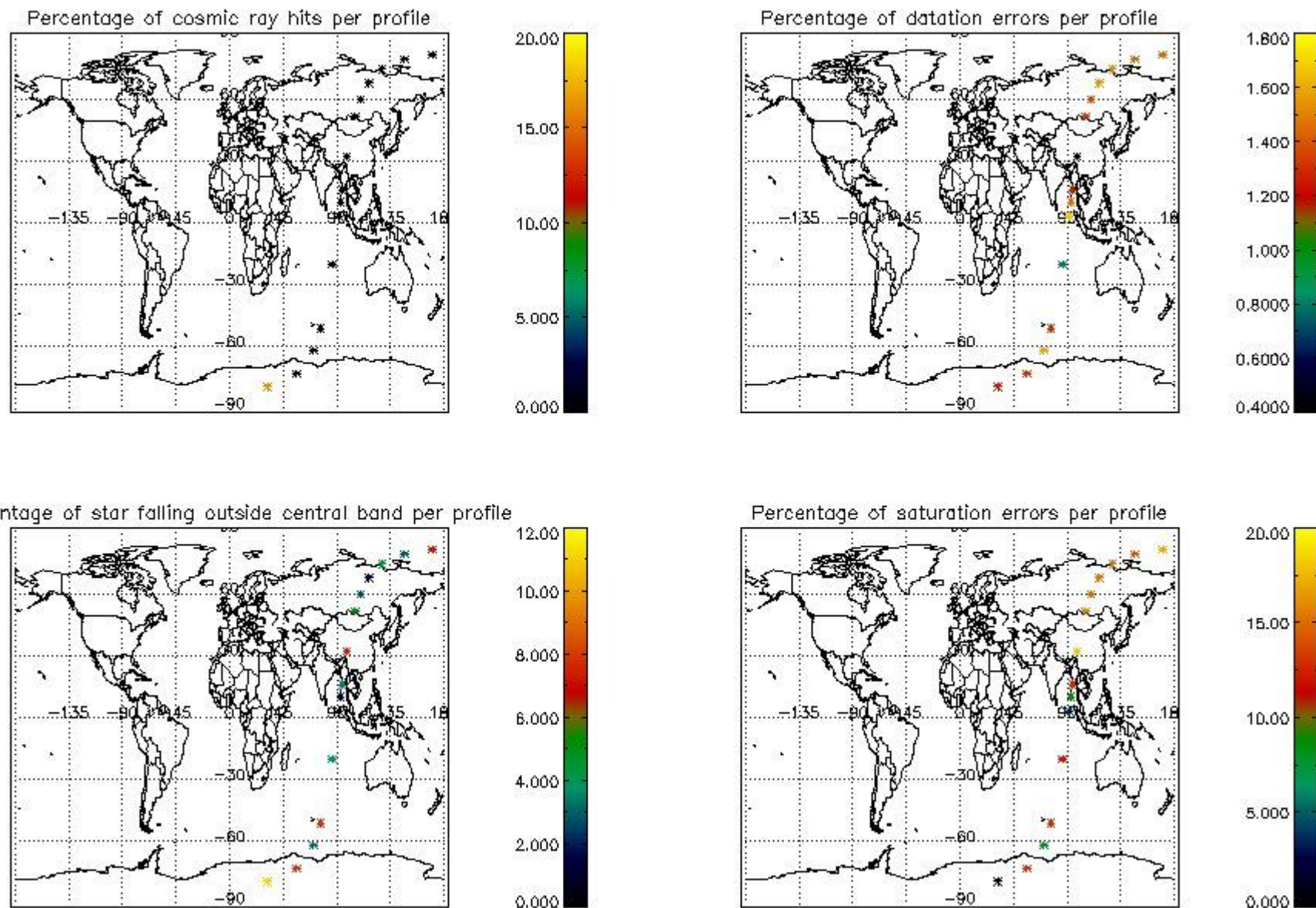
Percentage of star falling outside central band per profile



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

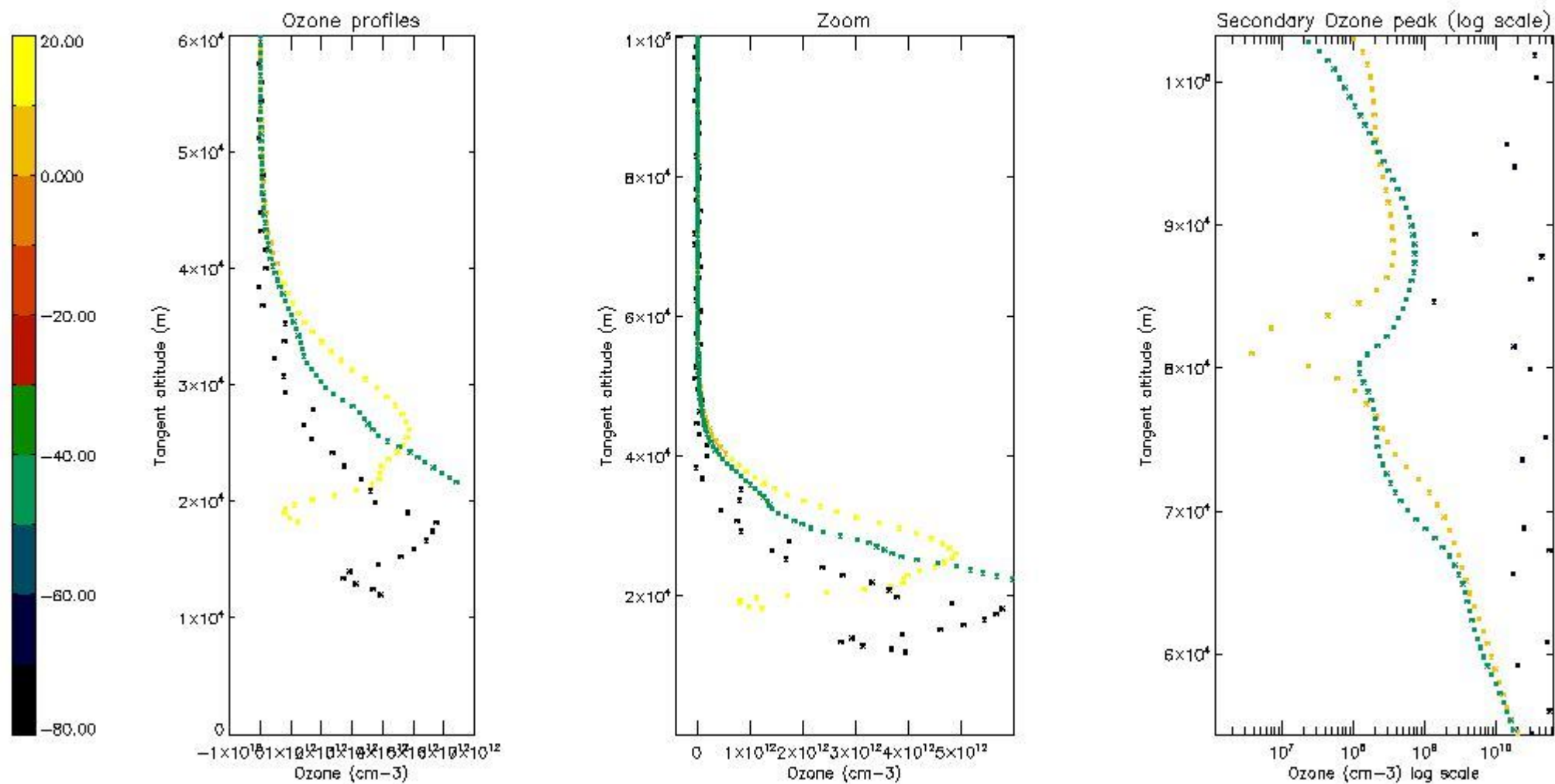
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	16
STD < 20	11

STD < 10	10
STD < 5	8

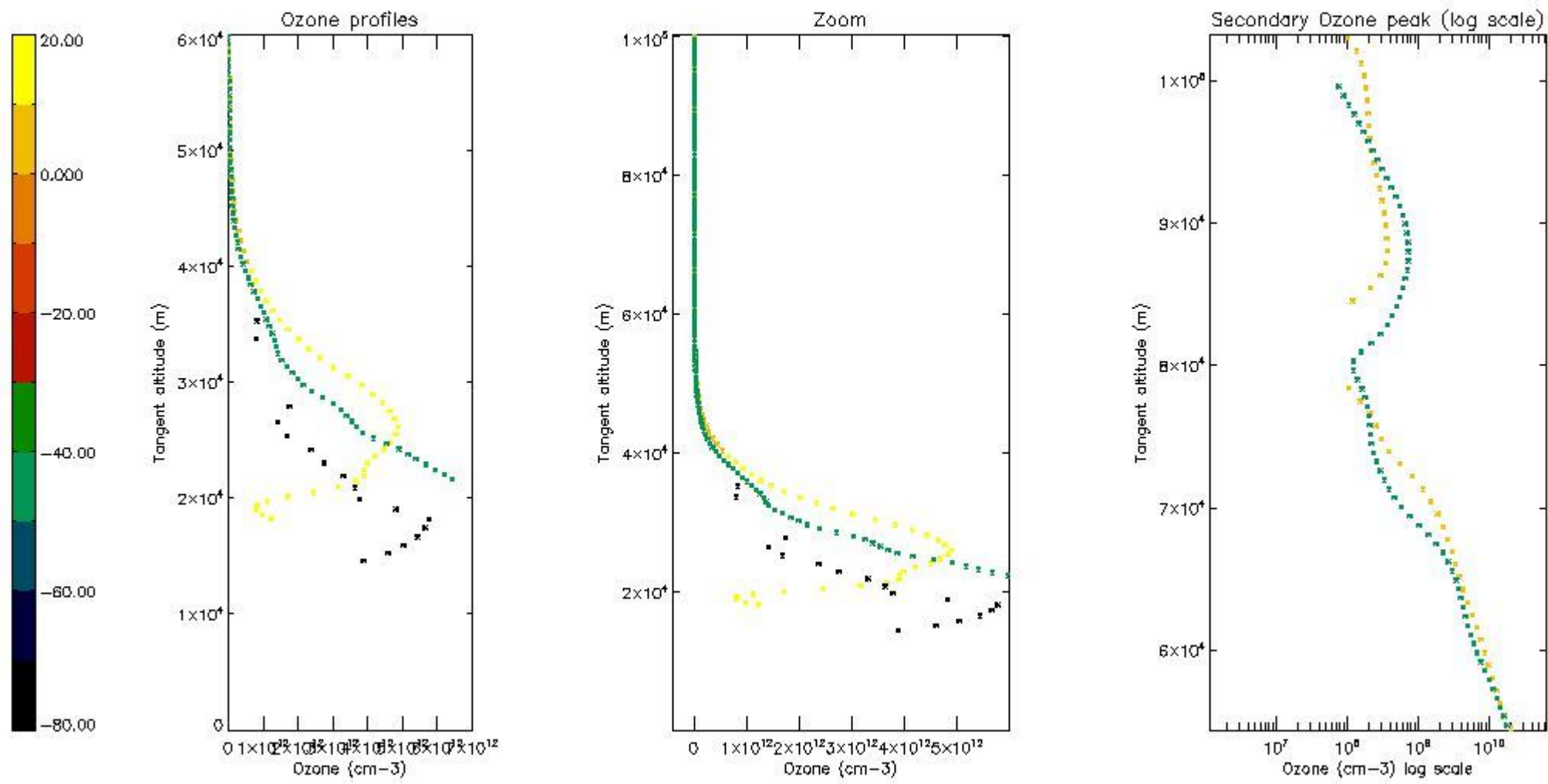
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



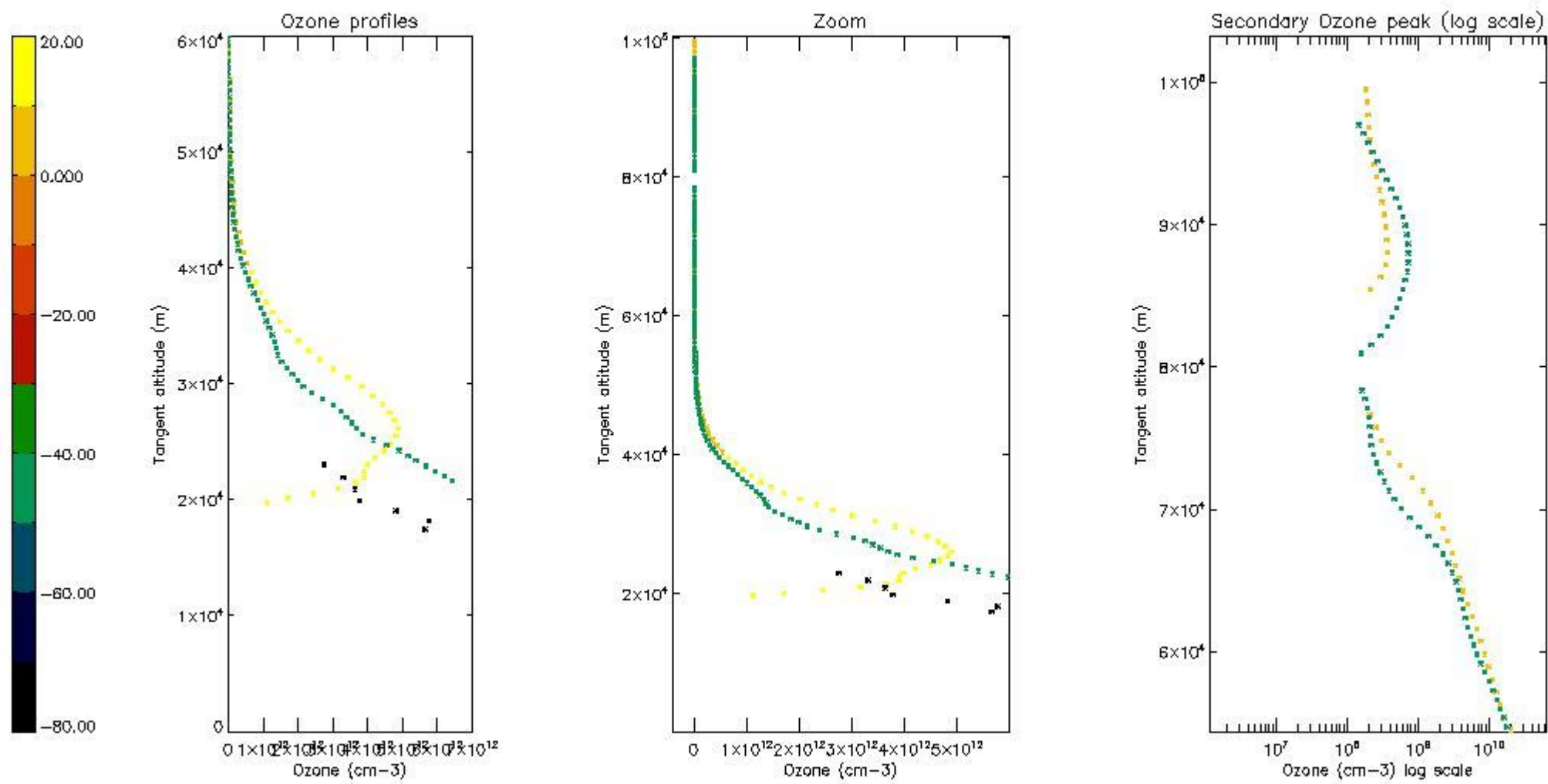
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



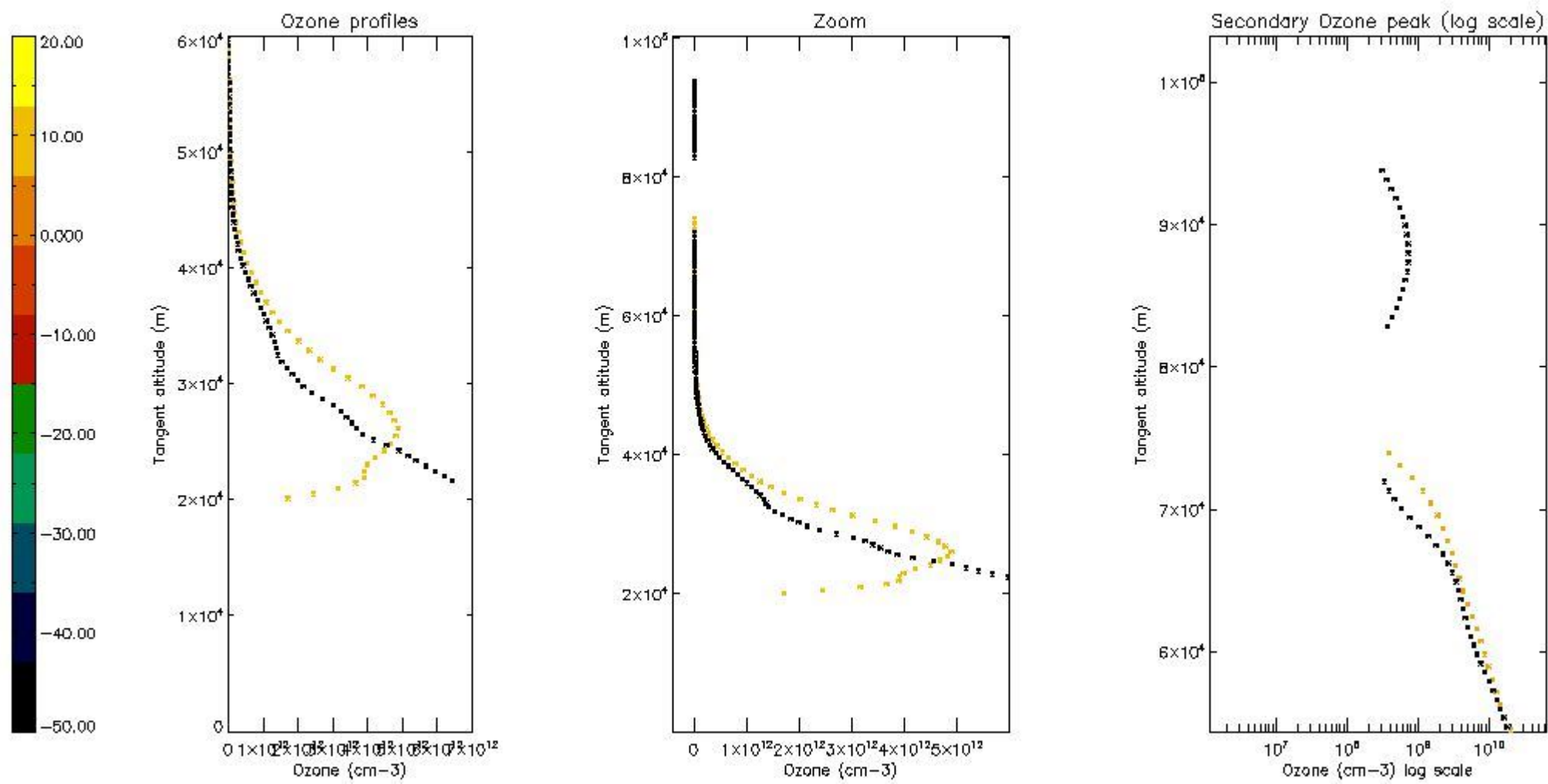
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



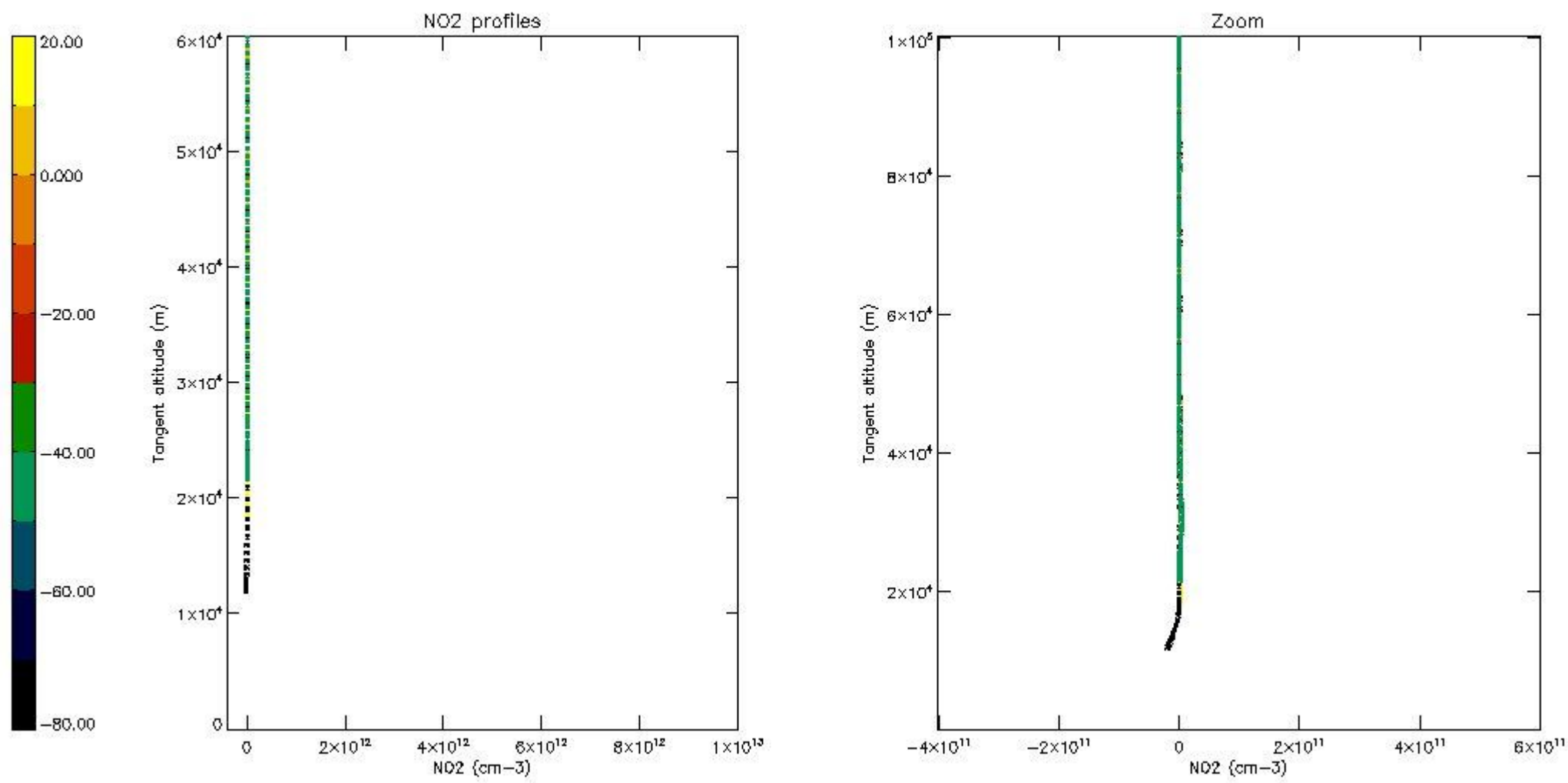
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



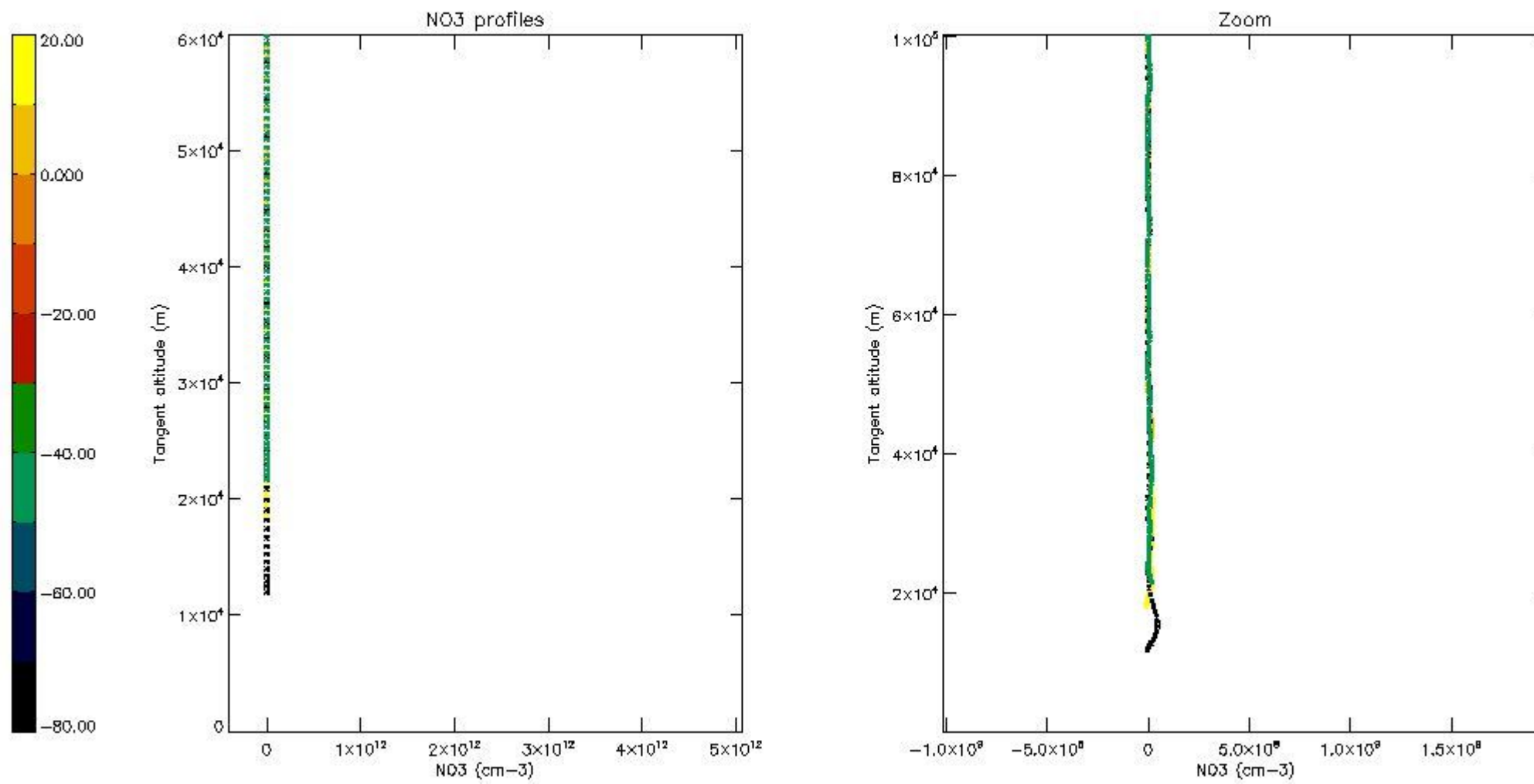
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

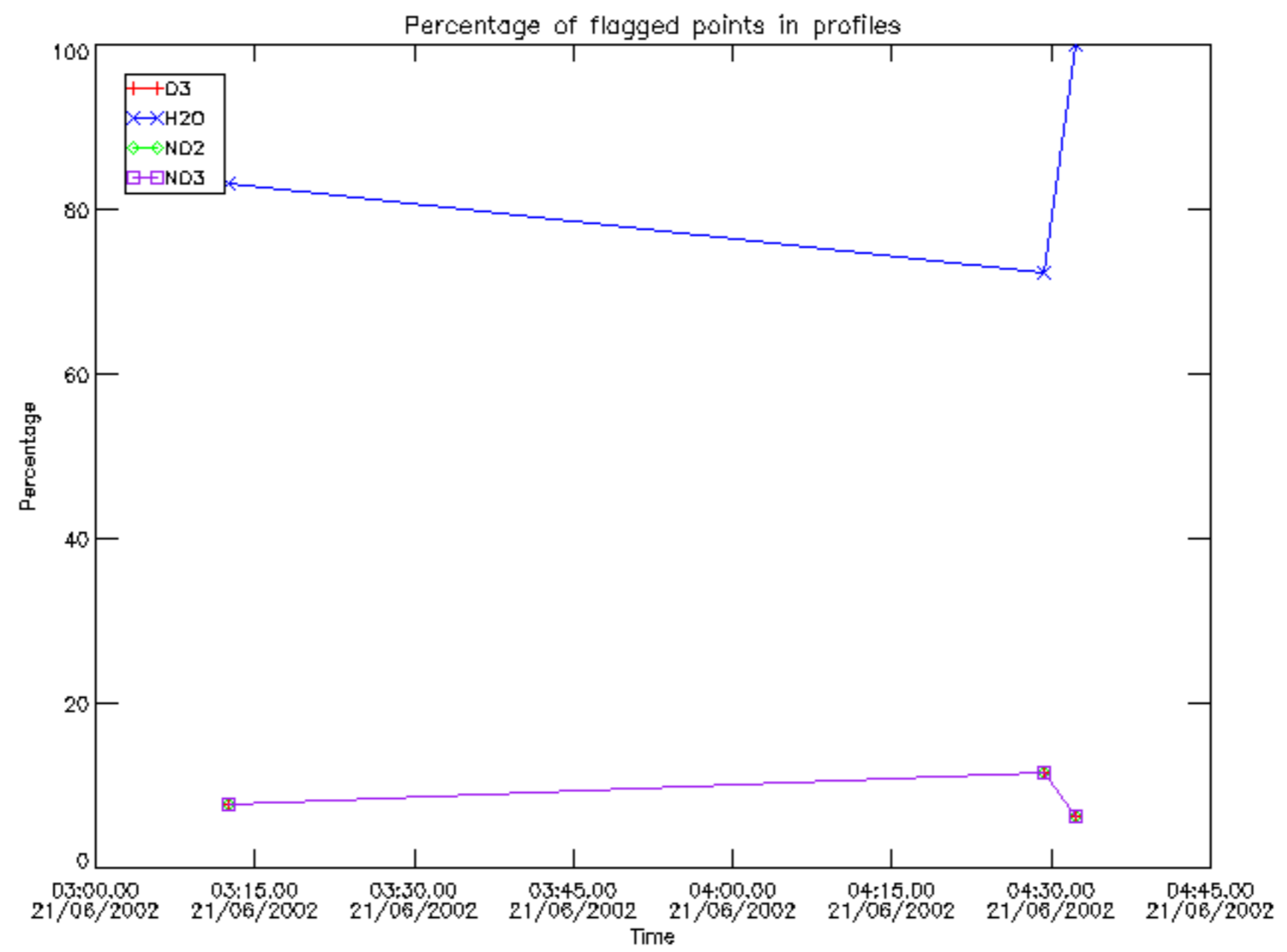
The colorbar represents the latitude.



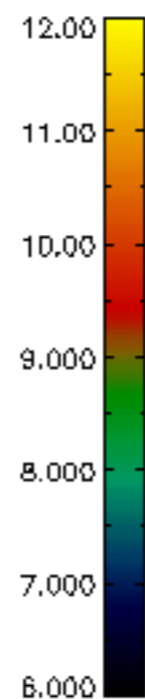
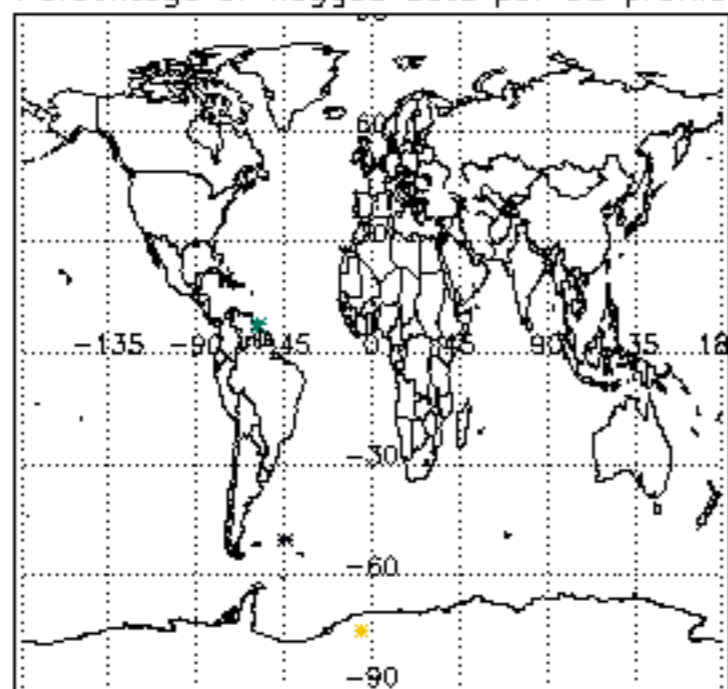
6. Auxiliary Data Files used for the production reported in section 2

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.

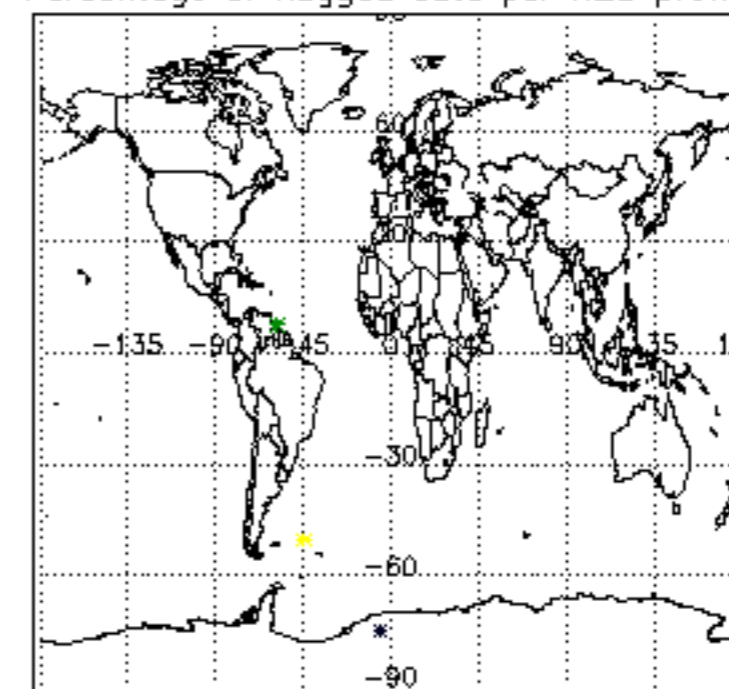
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	21-JUN-2002 03:12:33
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-JUN-2002 03:12:33
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-JUN-2002 03:12:33



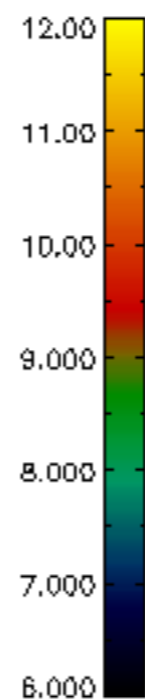
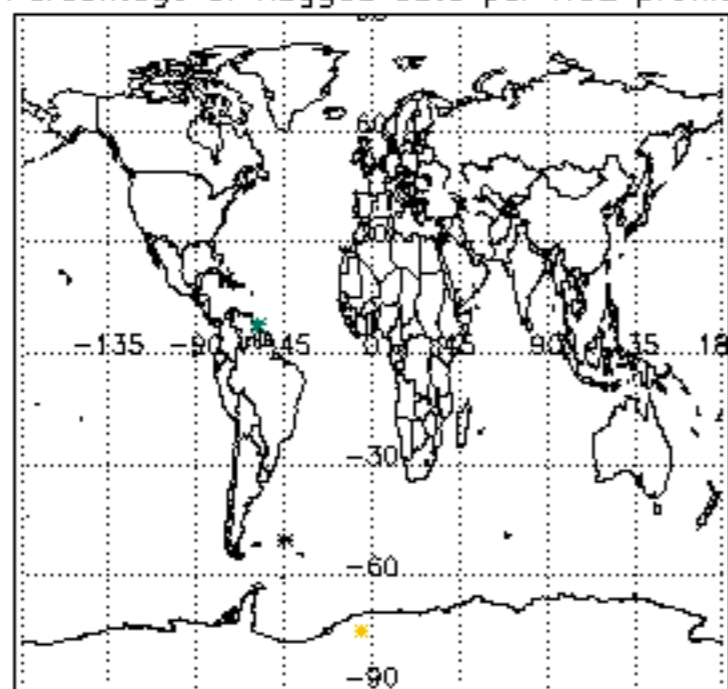
Percentage of flagged data per D3 profile



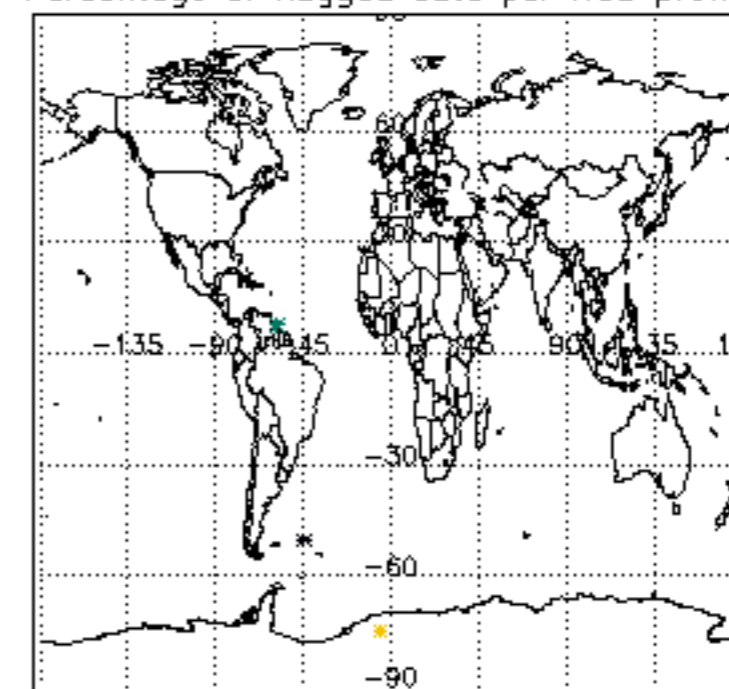
Percentage of flagged data per H2O profile

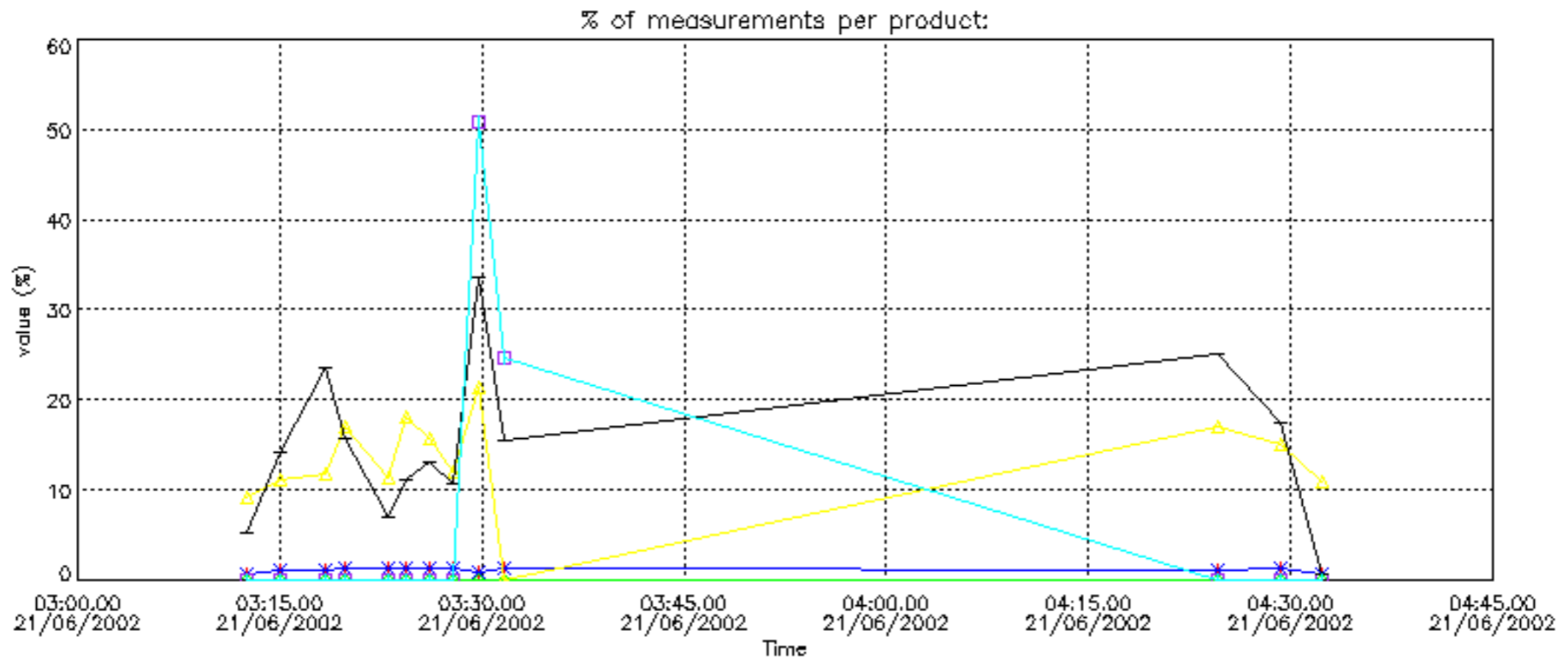


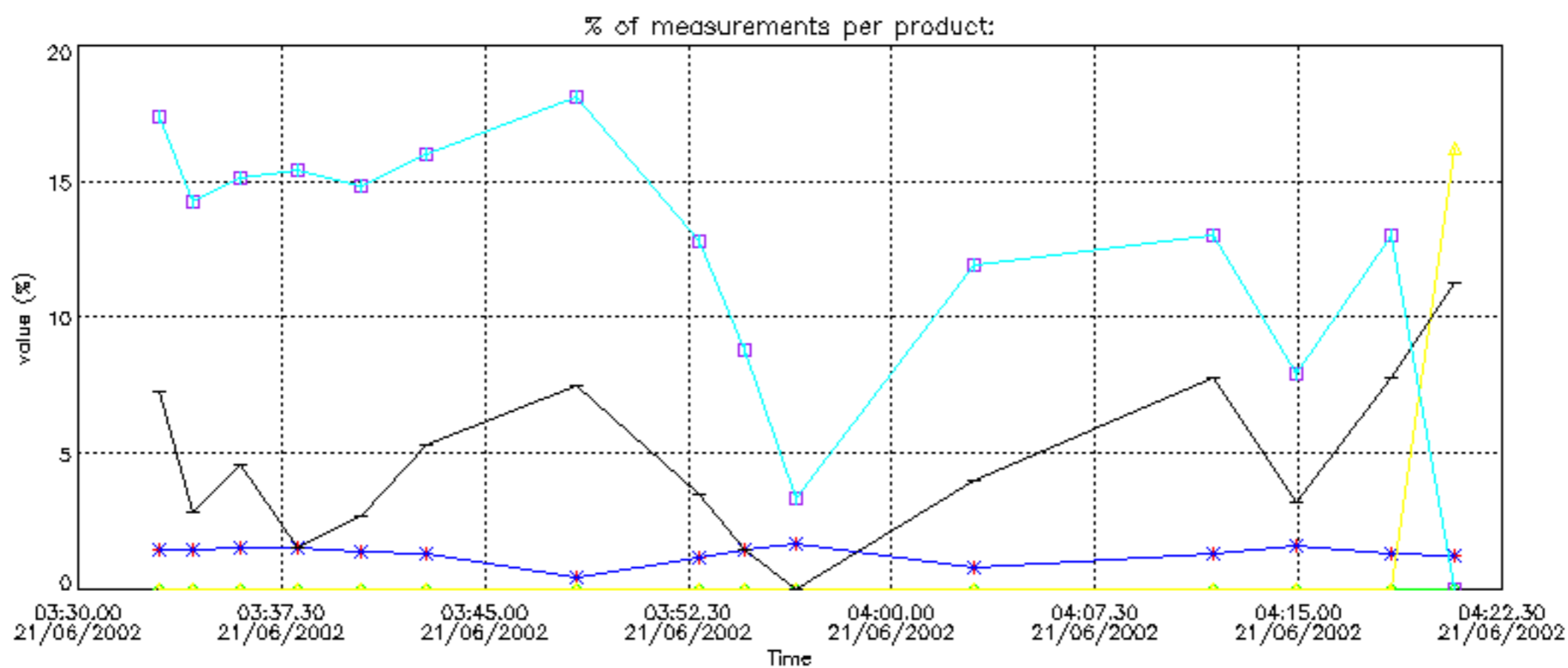
Percentage of flagged data per NO2 profile



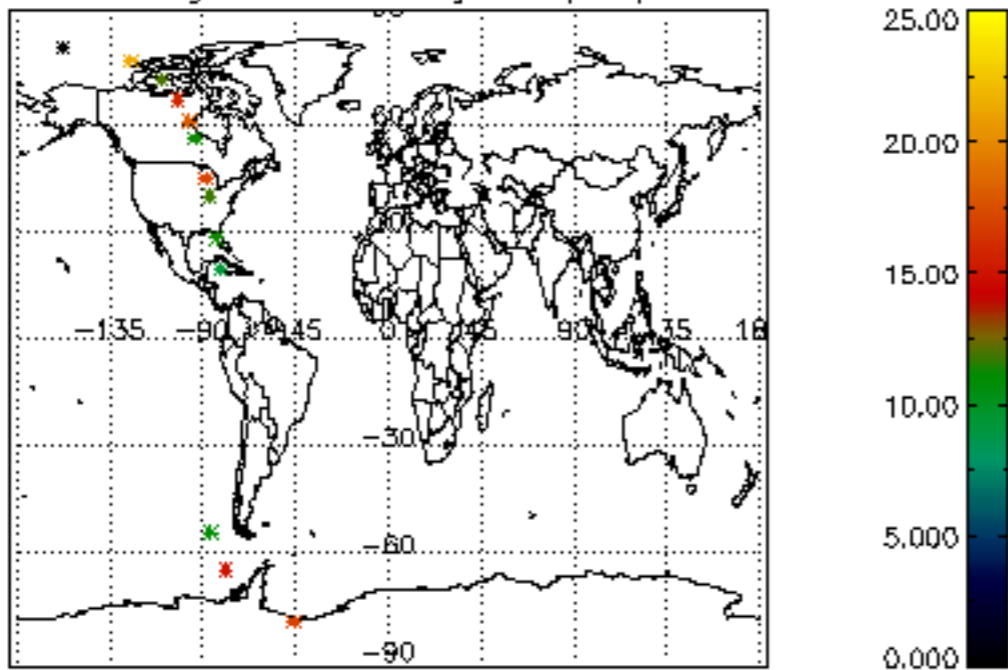
Percentage of flagged data per NO3 profile



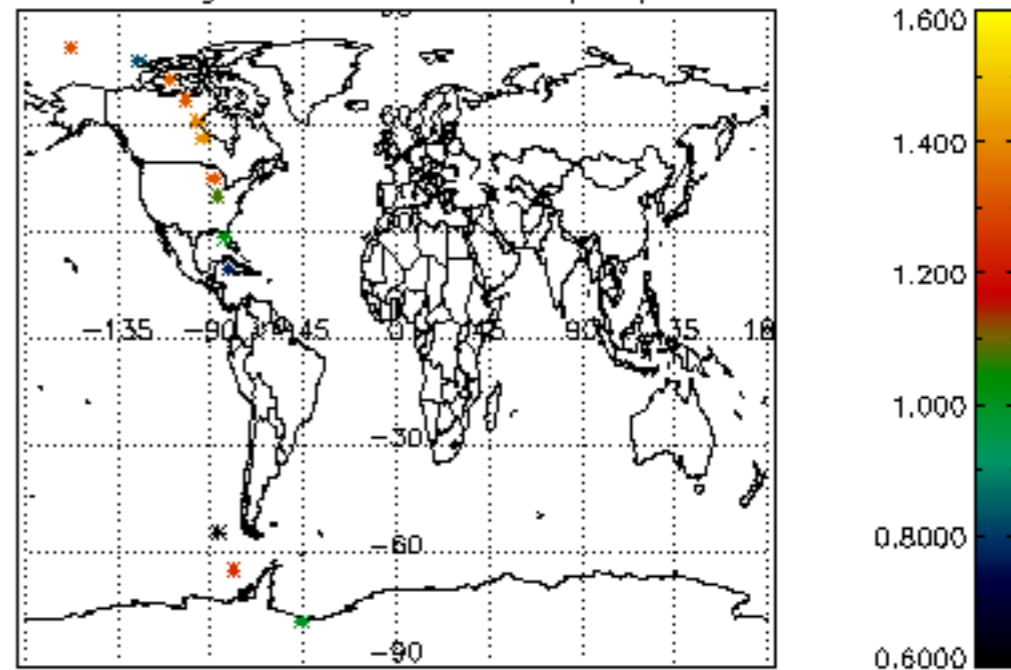




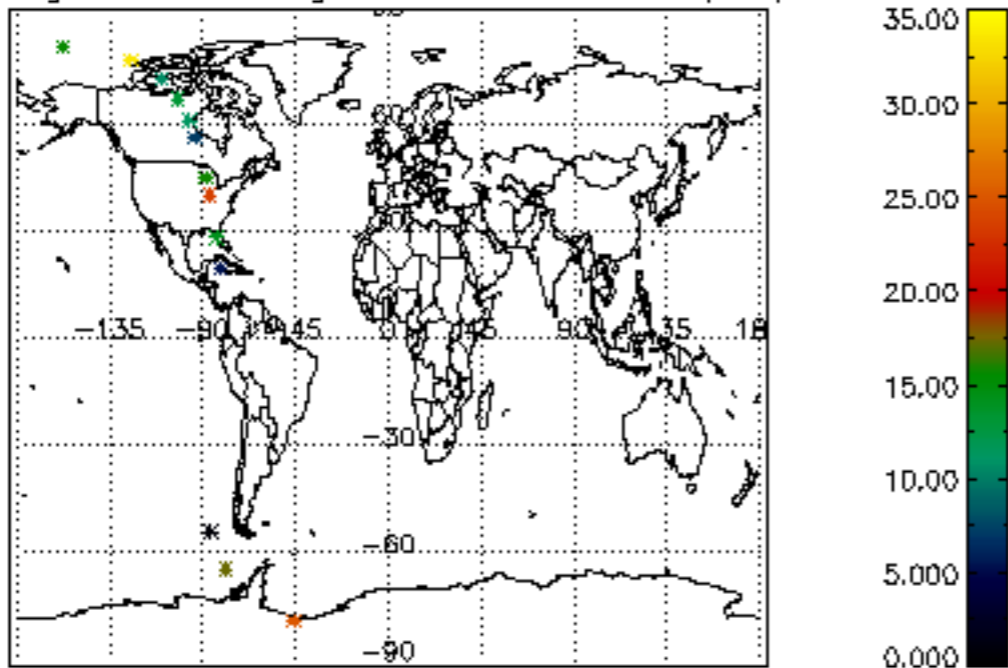
Percentage of cosmic ray hits per profile



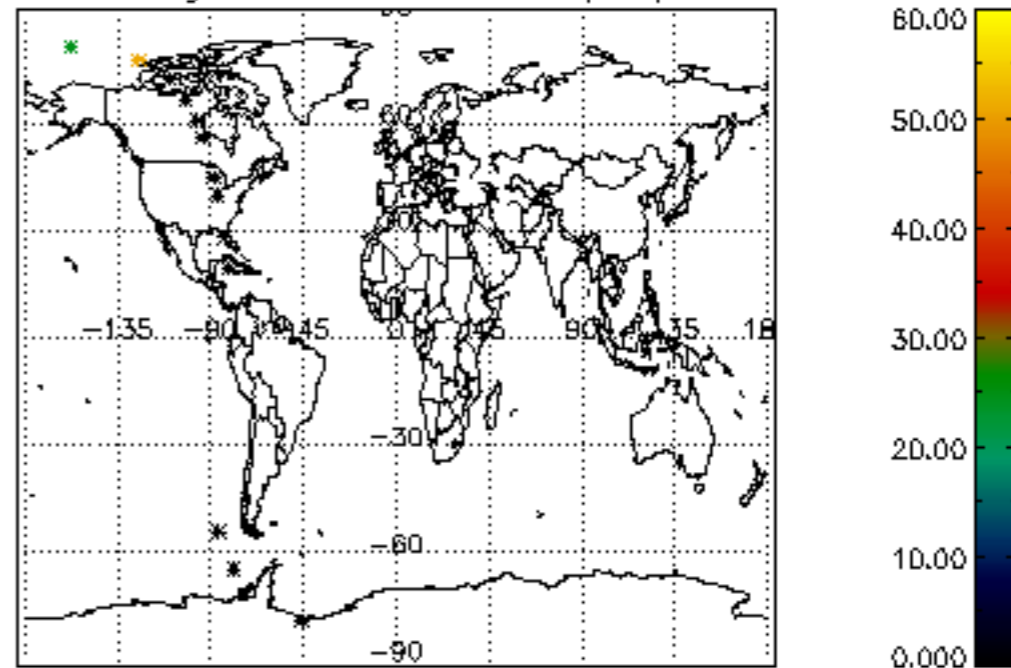
Percentage of datation errors per profile



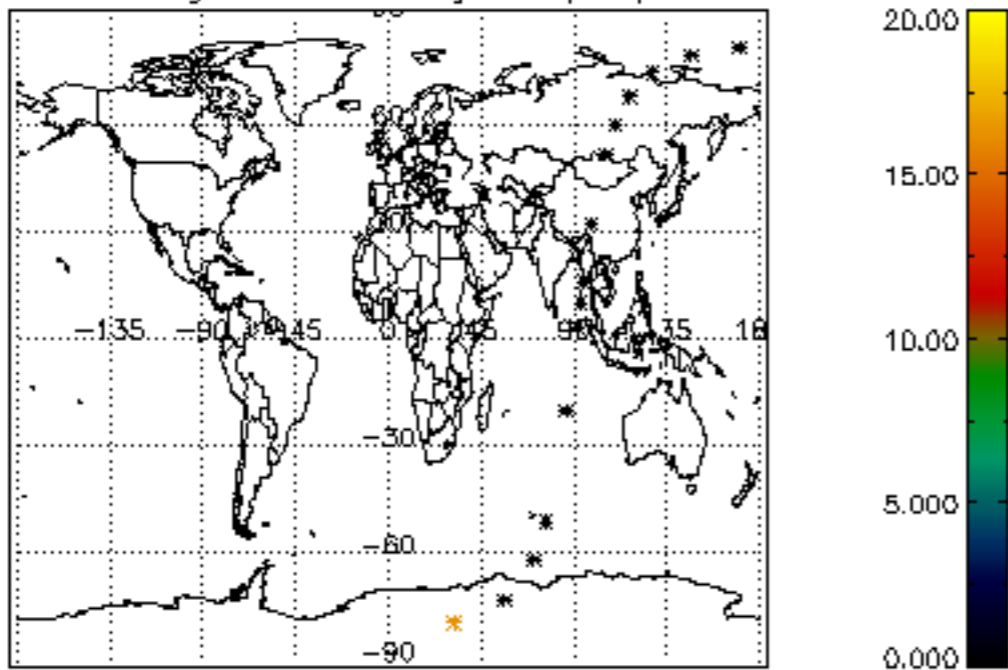
Percentage of star falling outside central band per profile



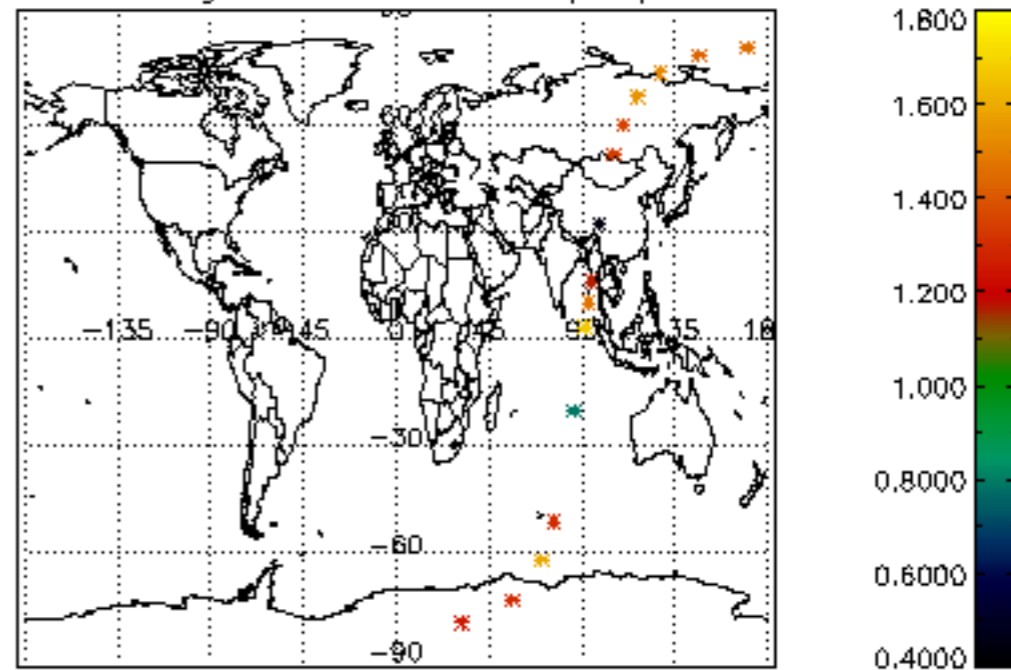
Percentage of saturation errors per profile



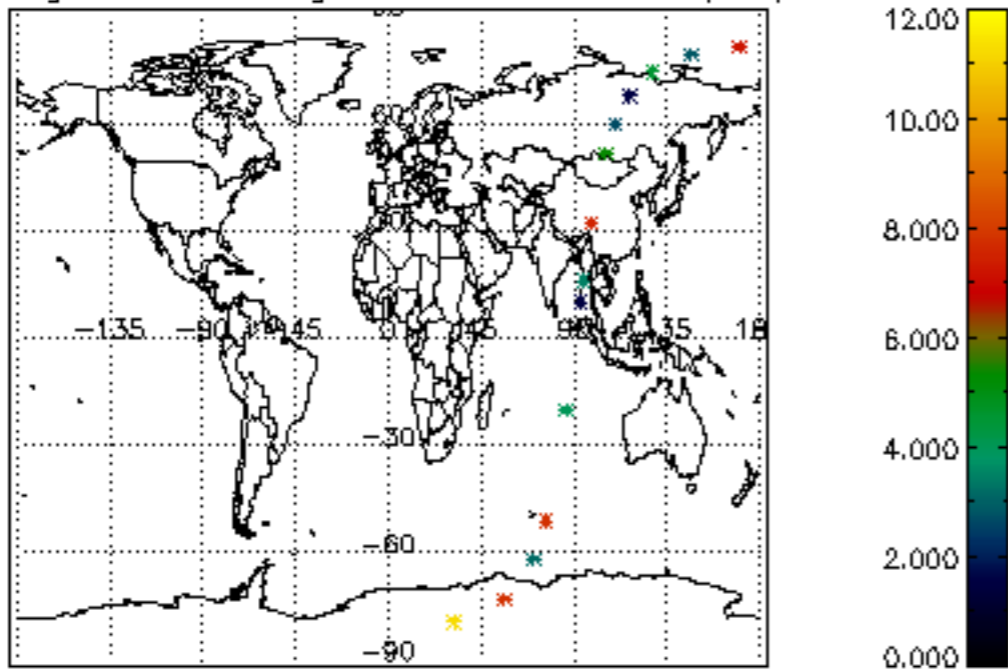
Percentage of cosmic ray hits per profile



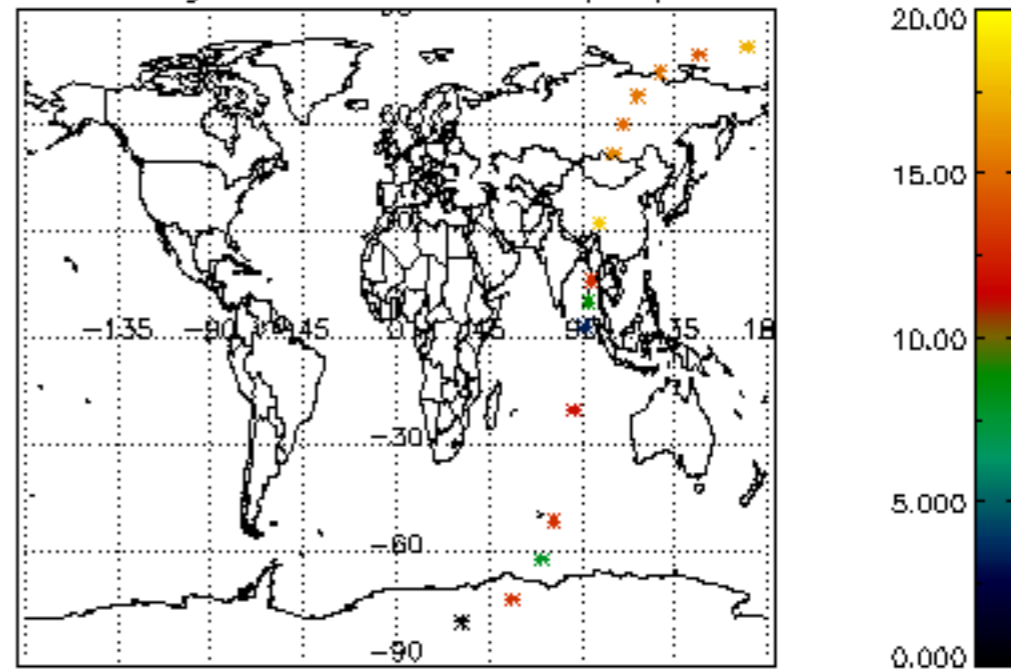
Percentage of datation errors per profile

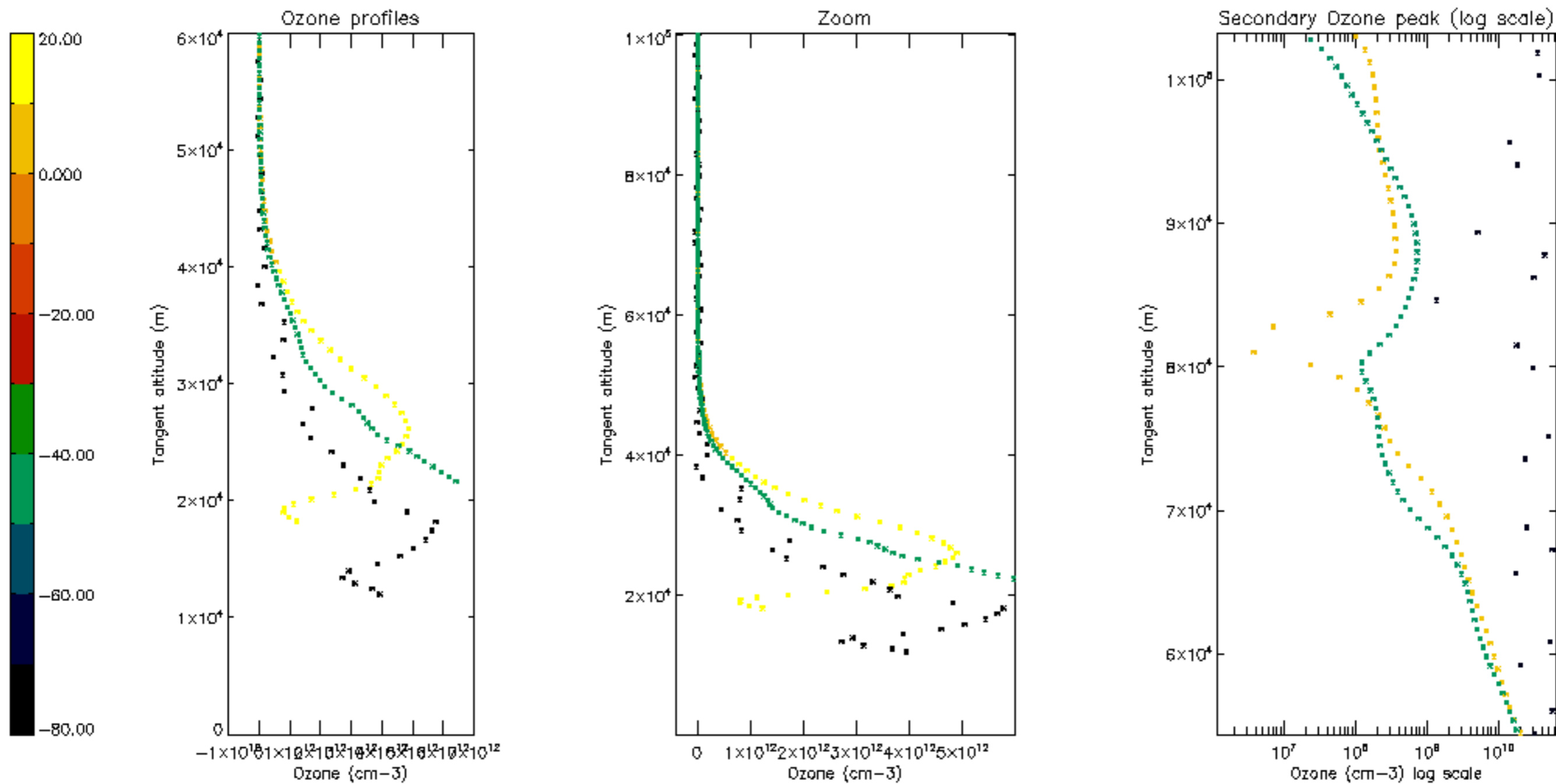


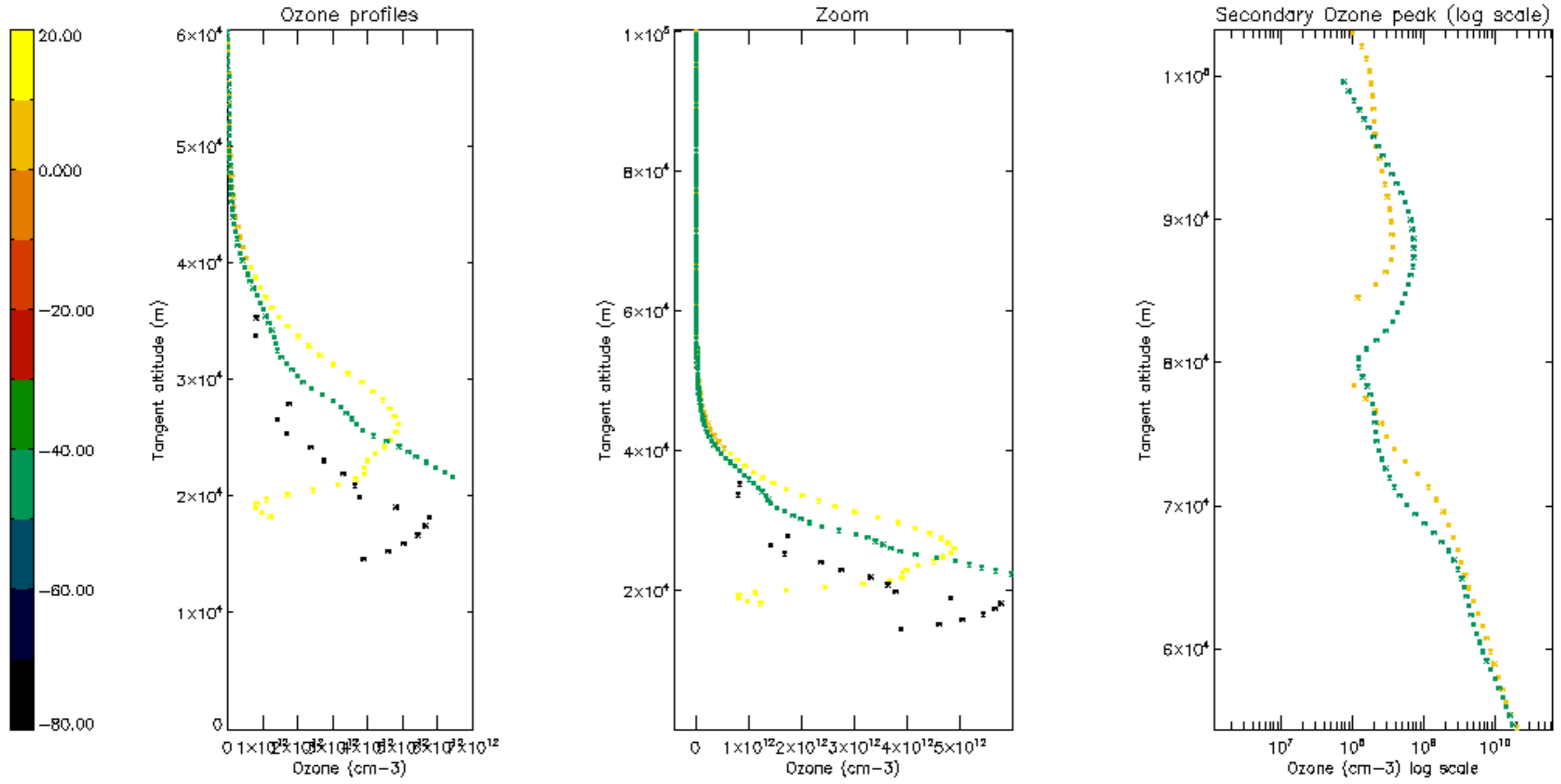
Percentage of star falling outside central band per profile

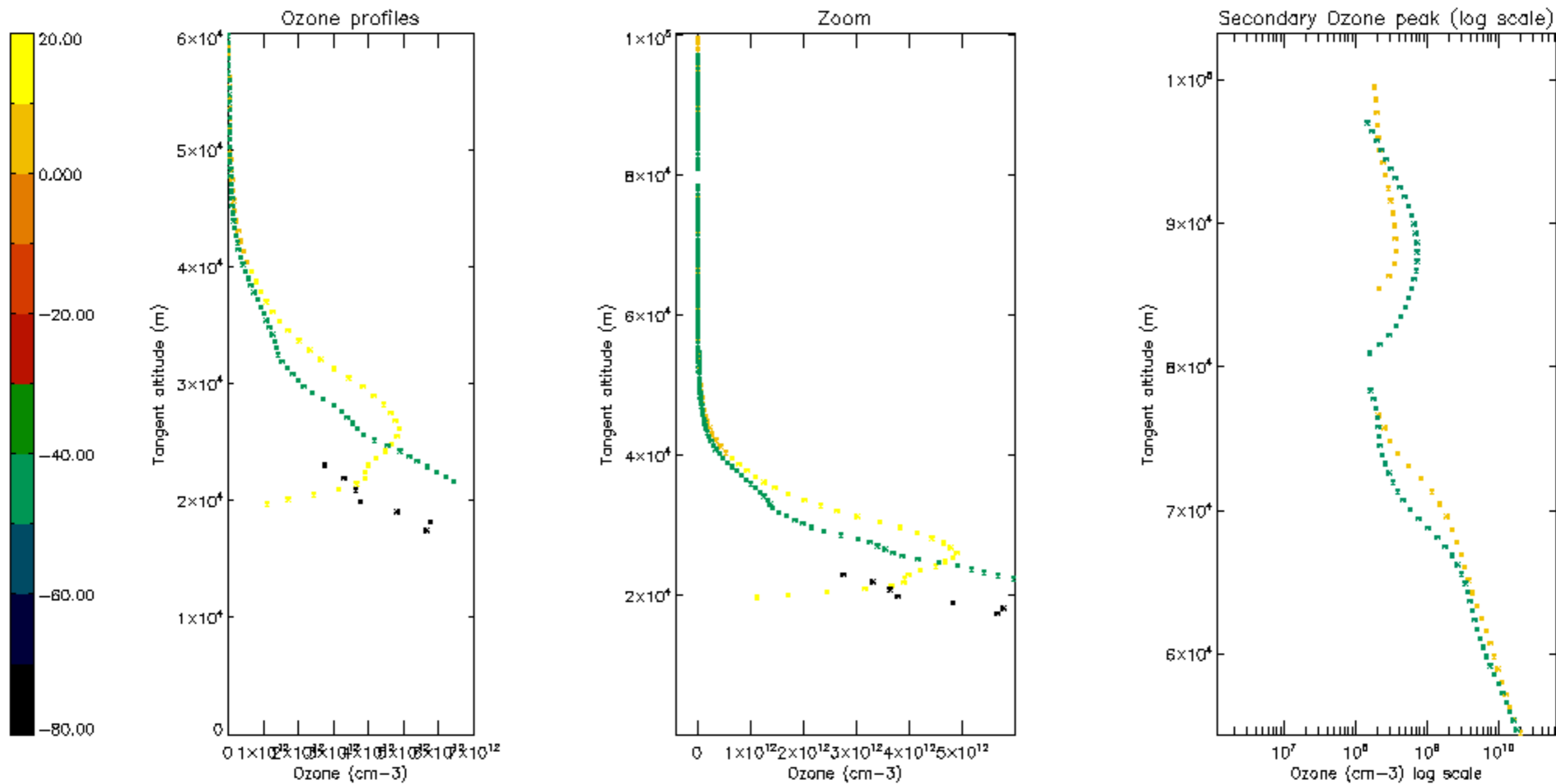


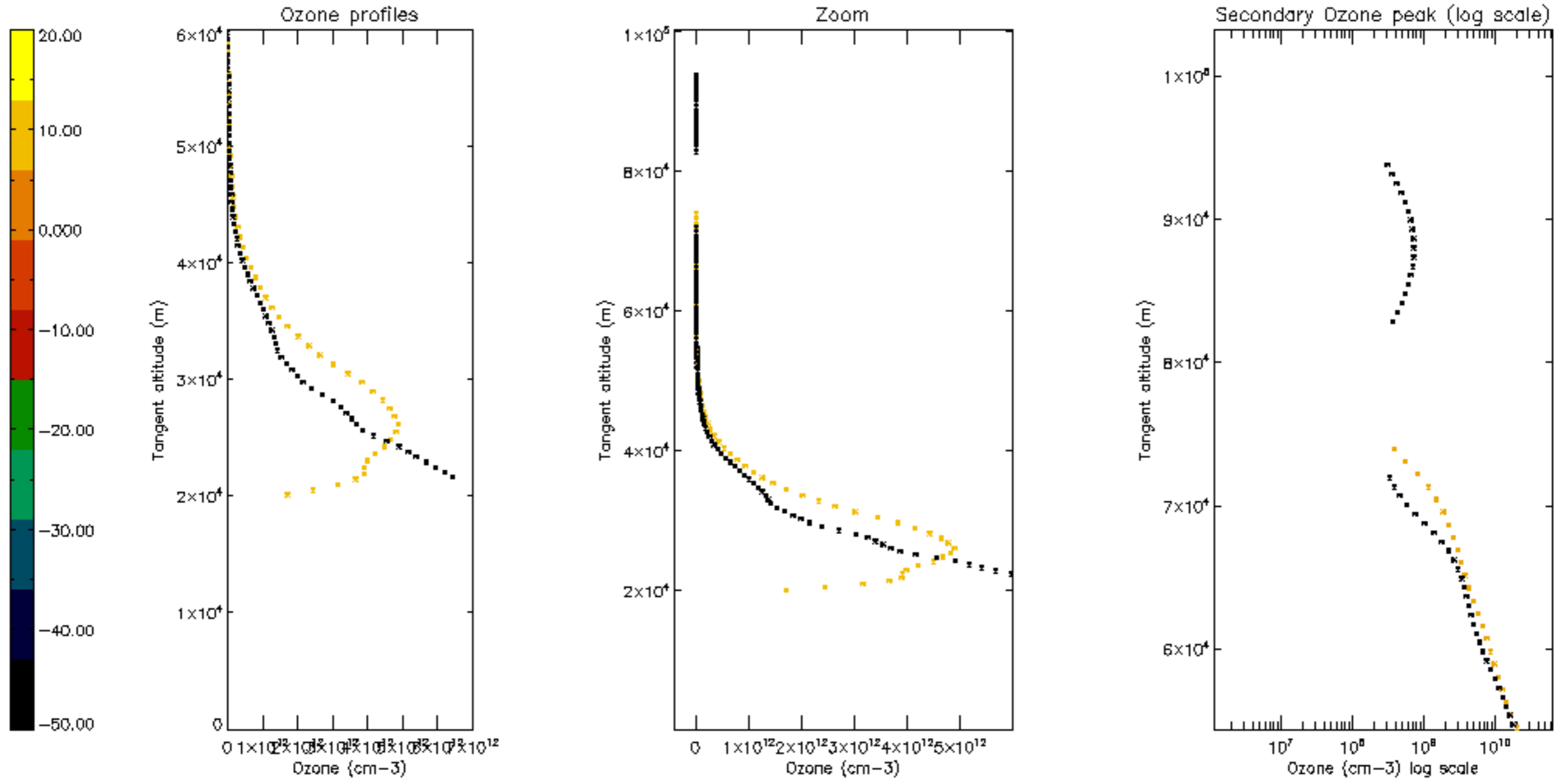
Percentage of saturation errors per profile

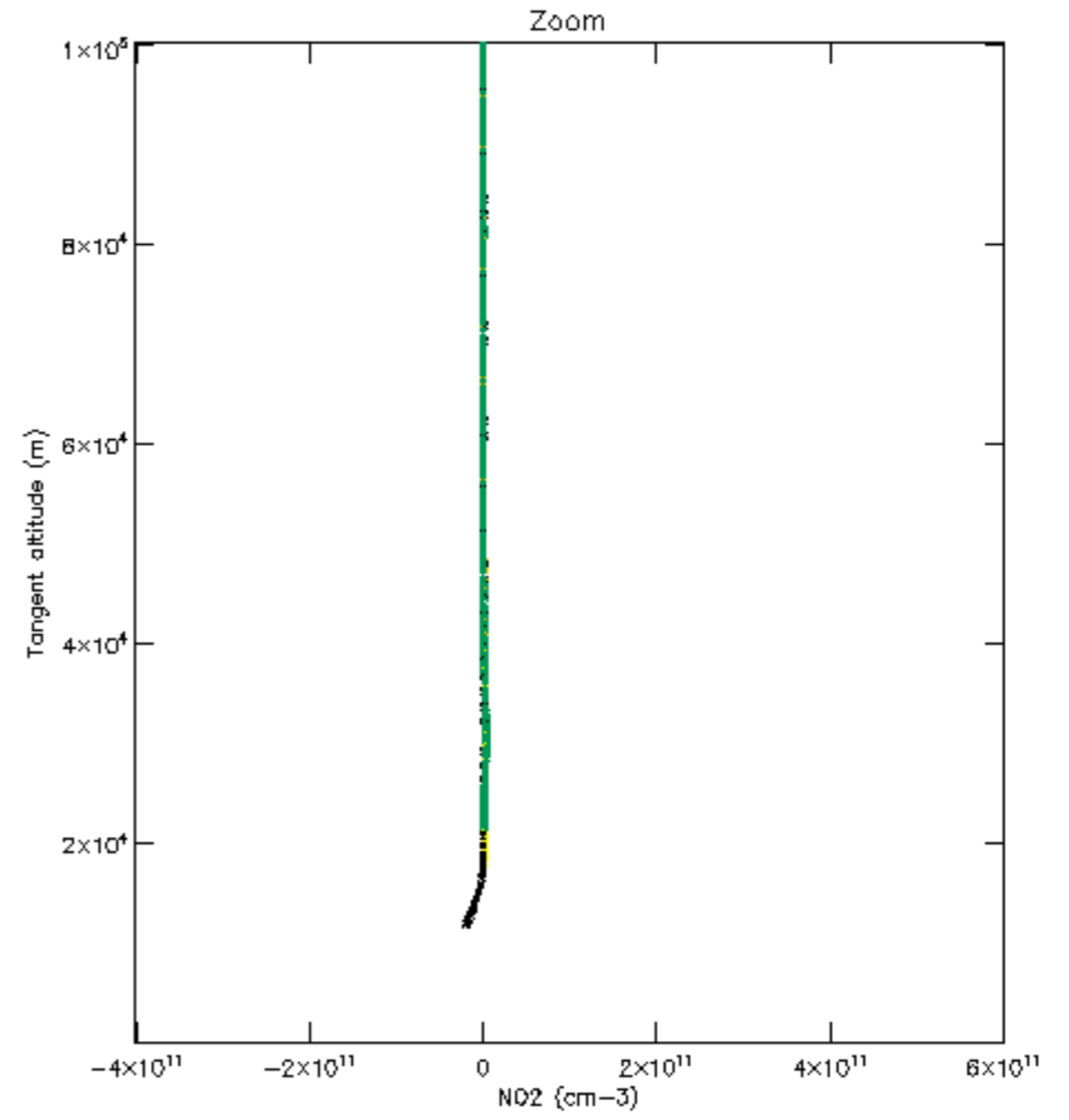
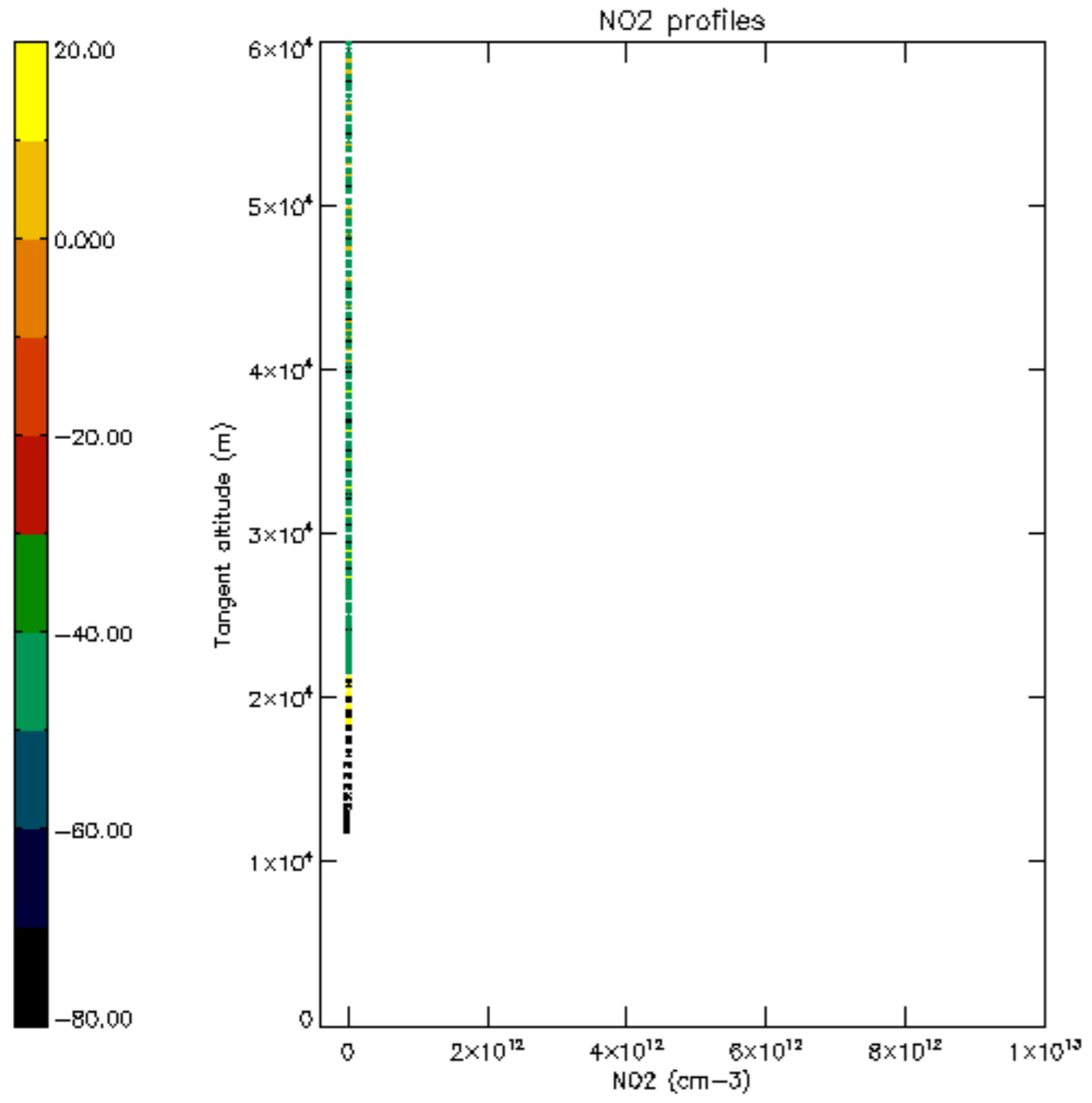


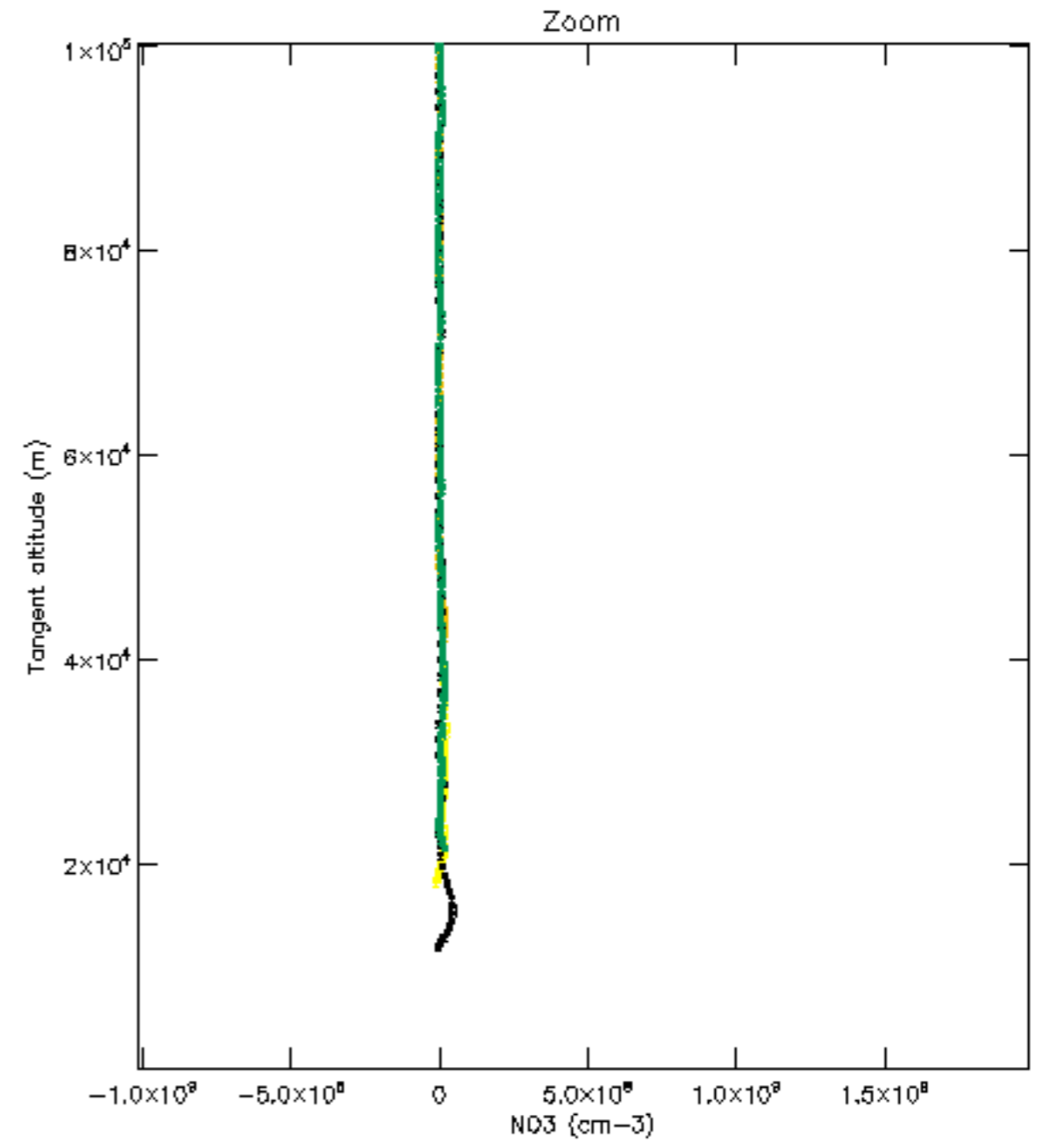
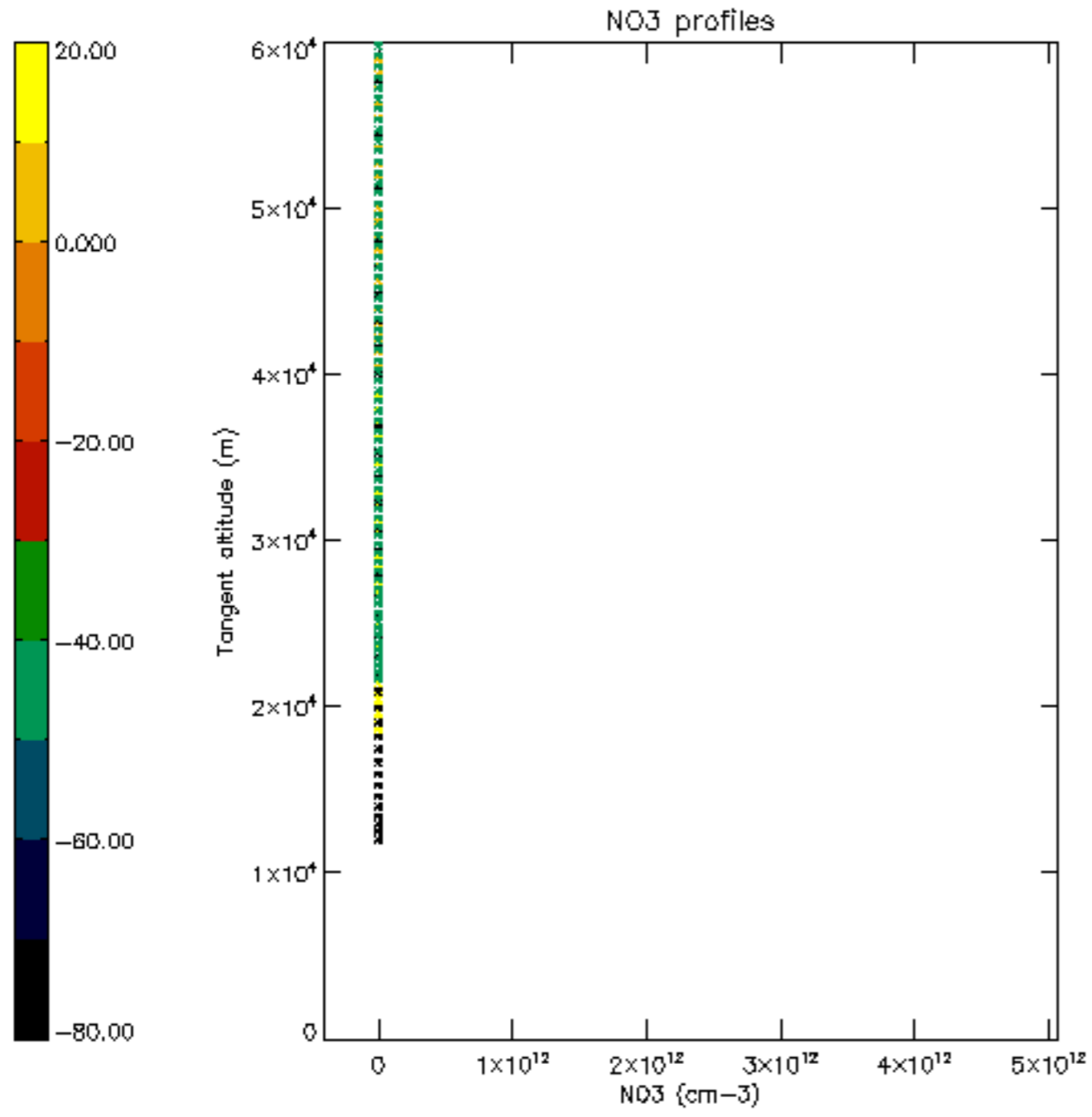


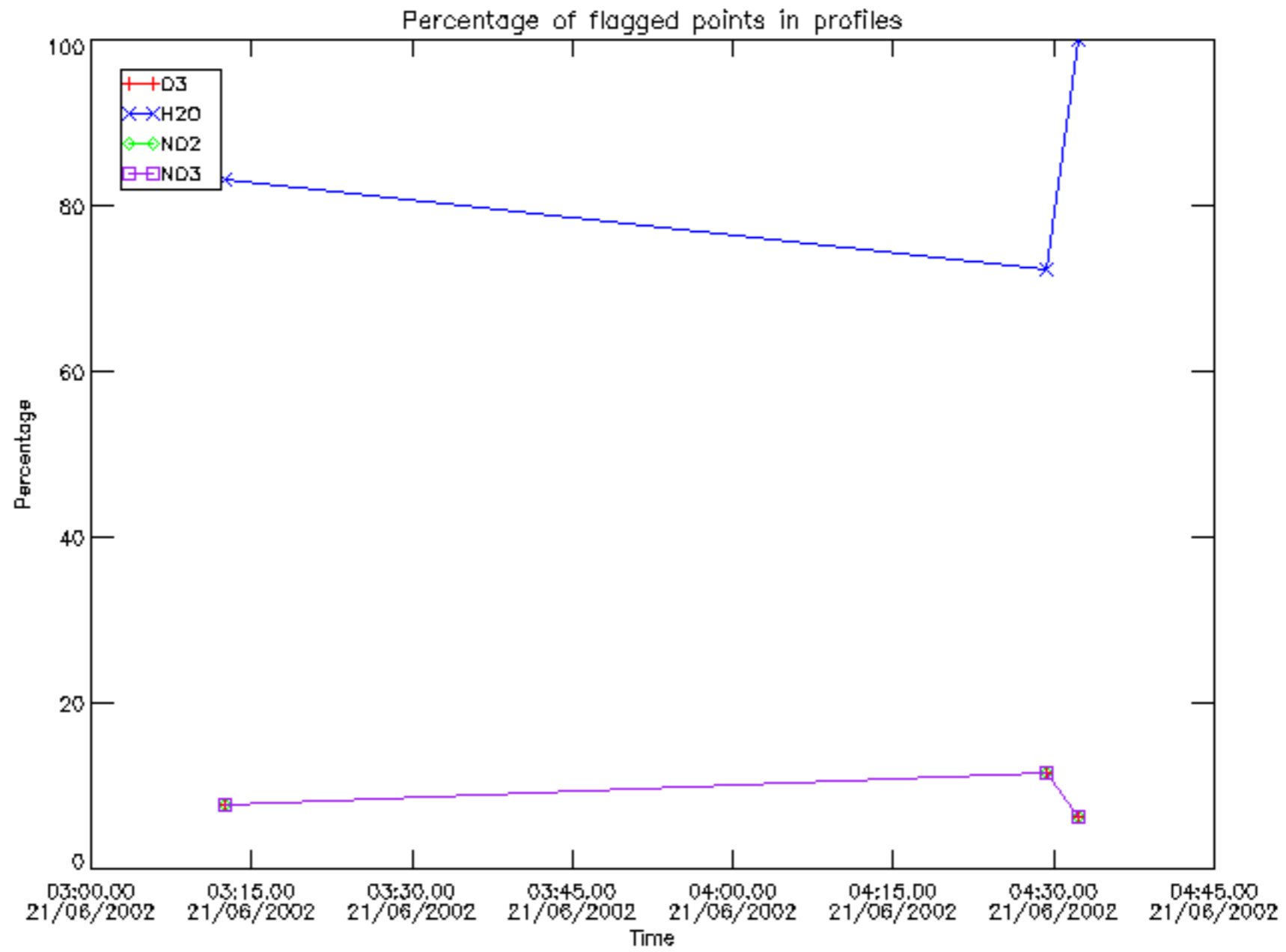




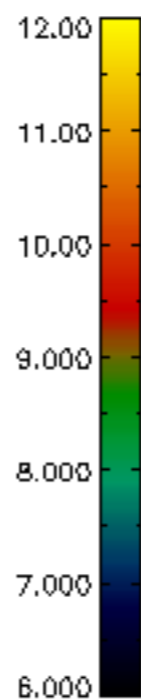
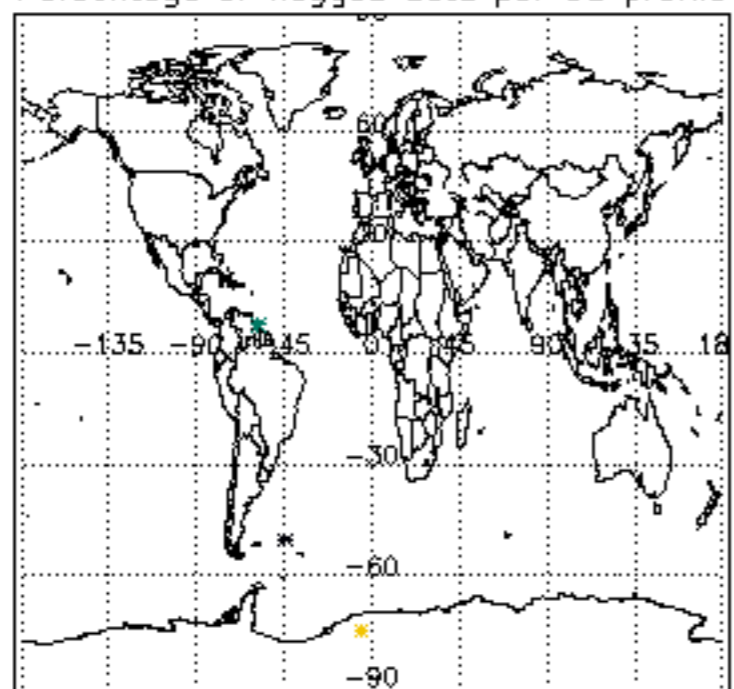




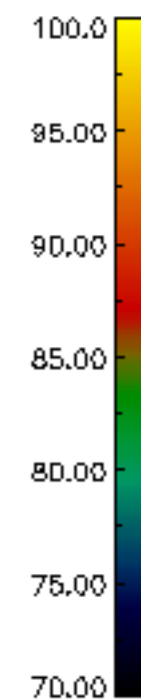
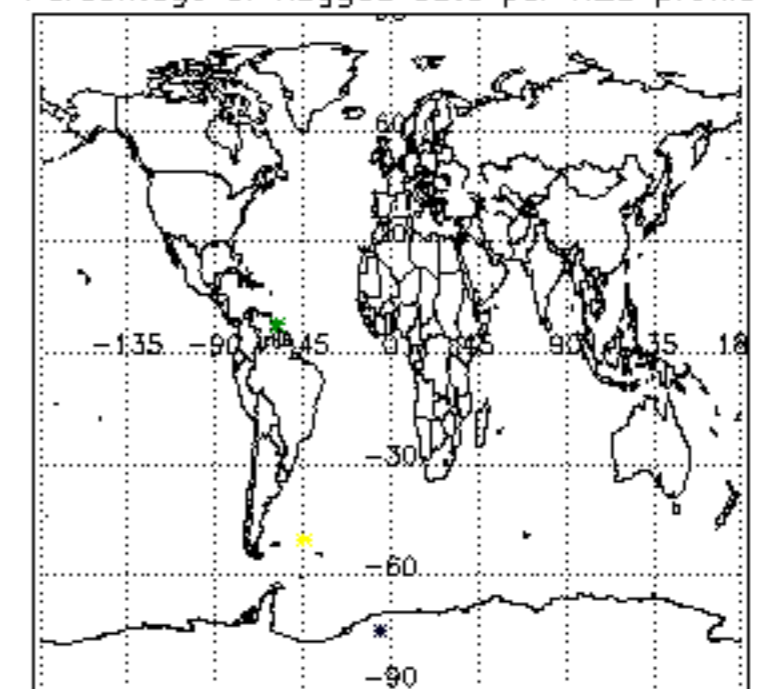




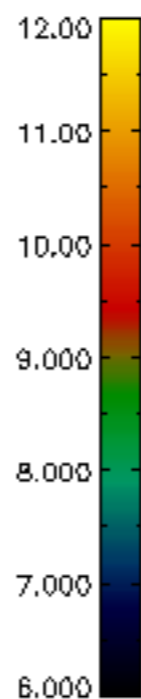
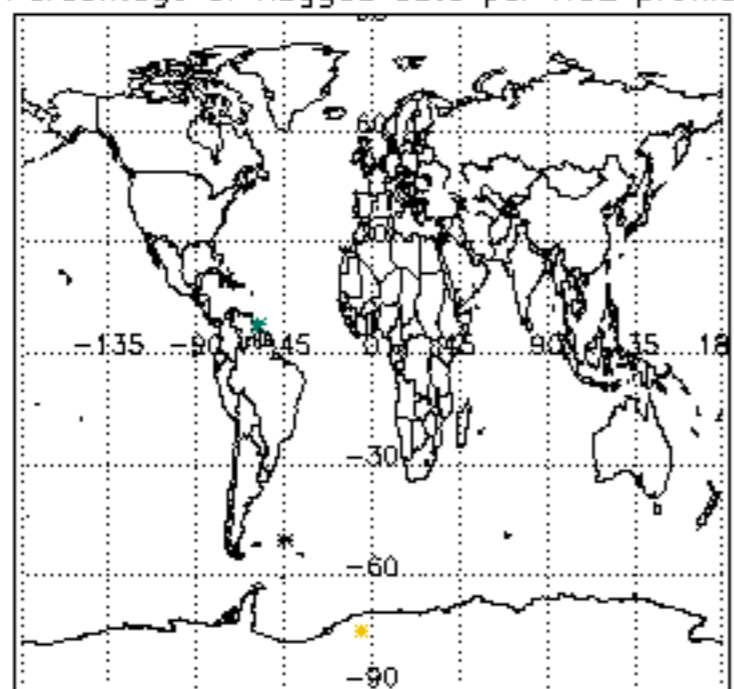
Percentage of flagged data per D3 profile



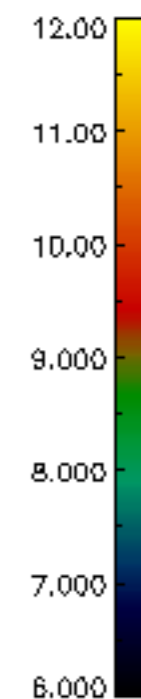
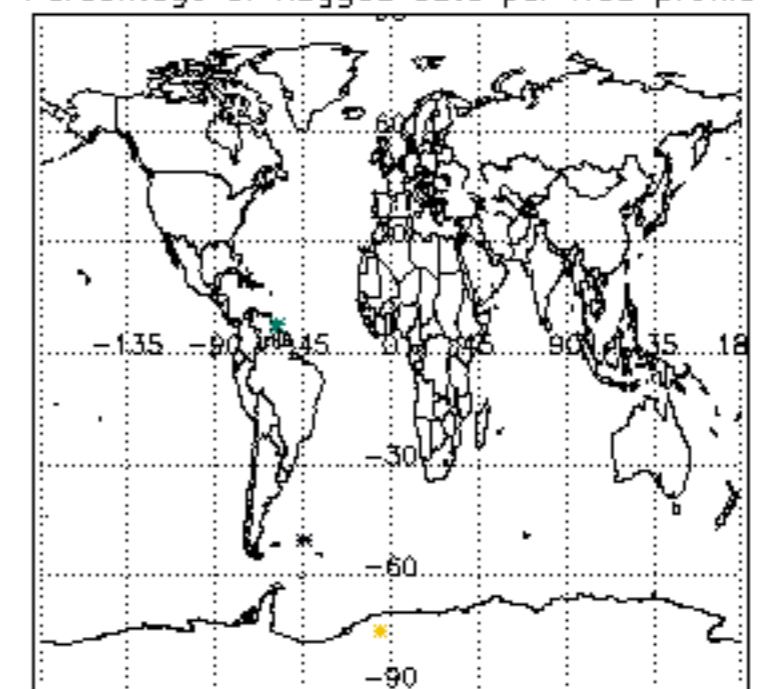
Percentage of flagged data per H2O profile

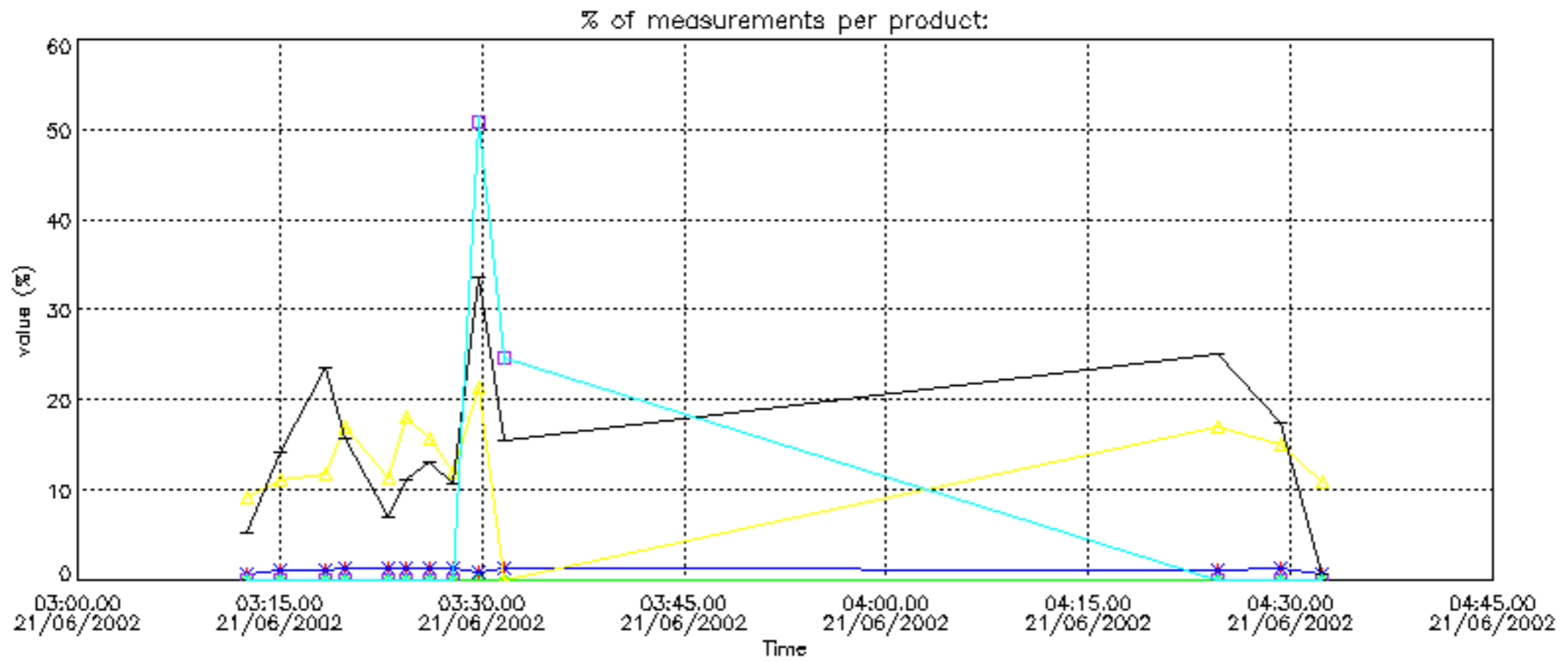


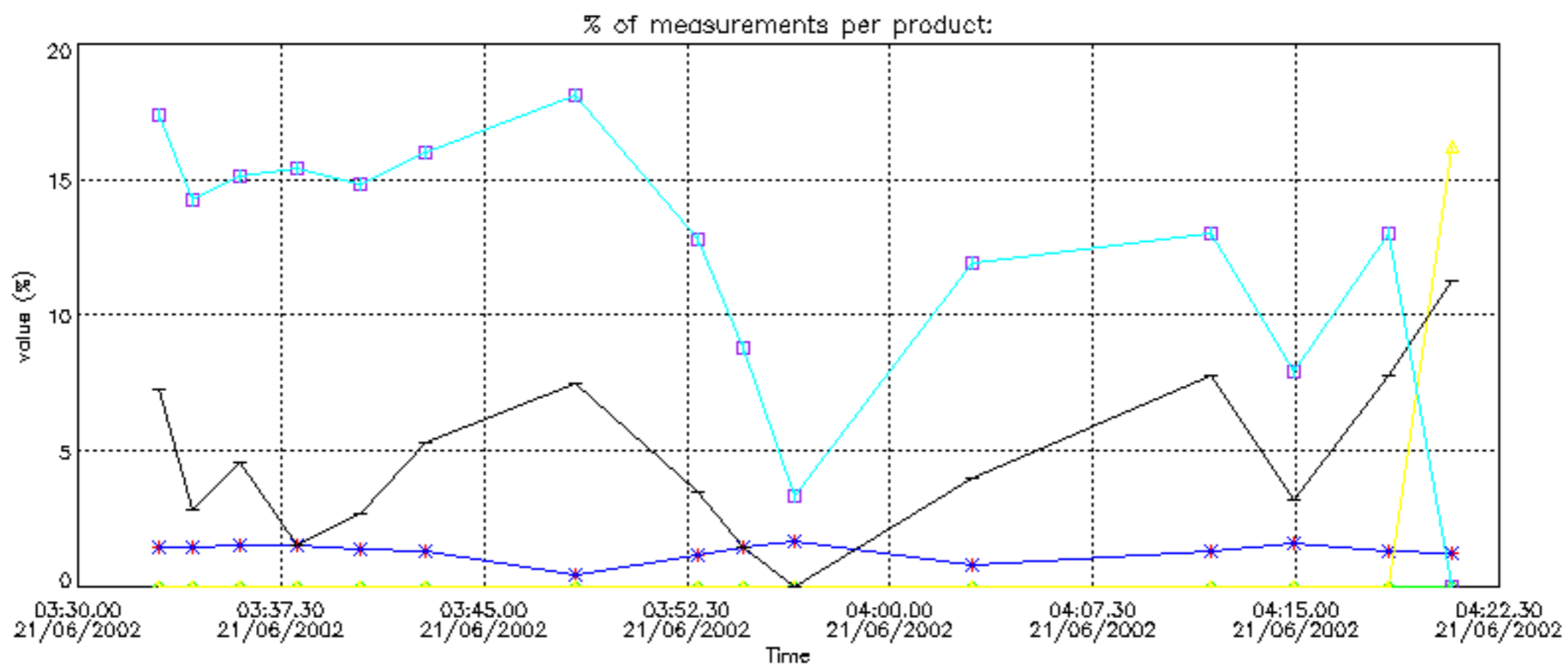
Percentage of flagged data per NO2 profile



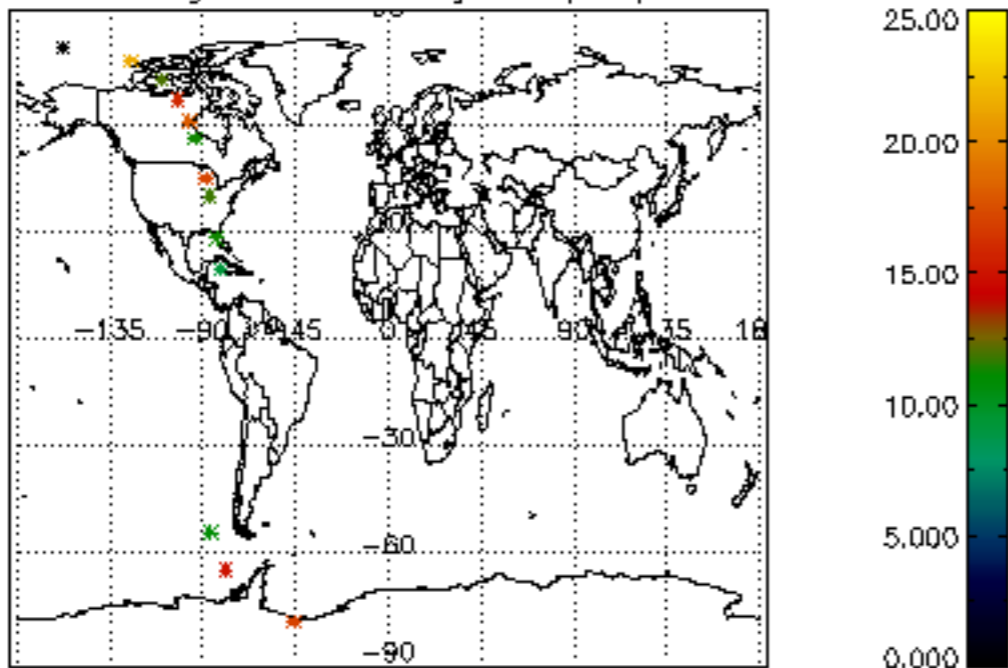
Percentage of flagged data per NO3 profile



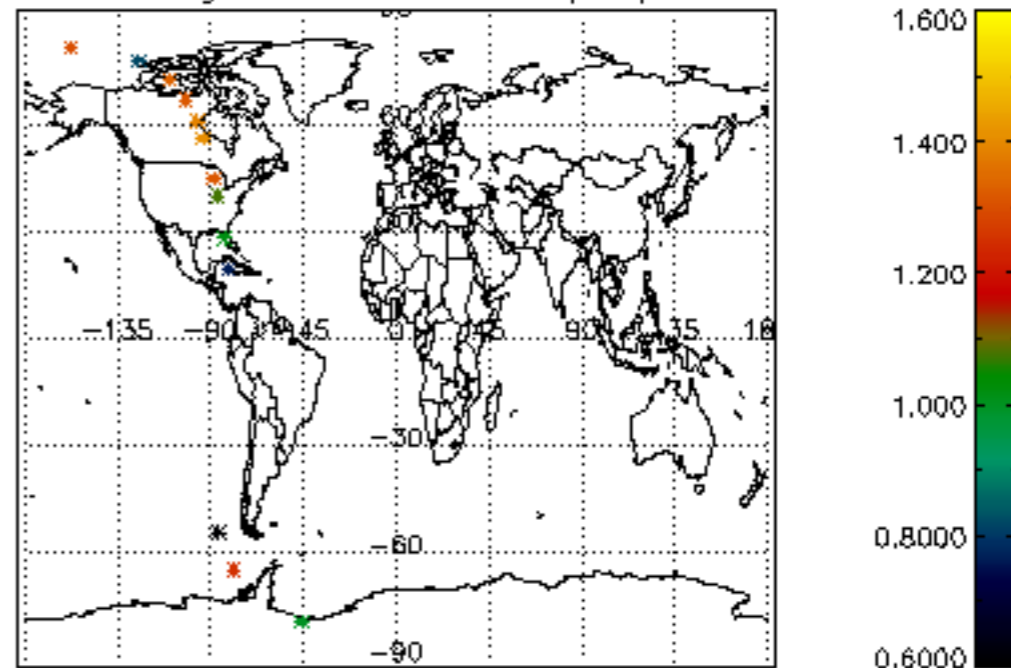




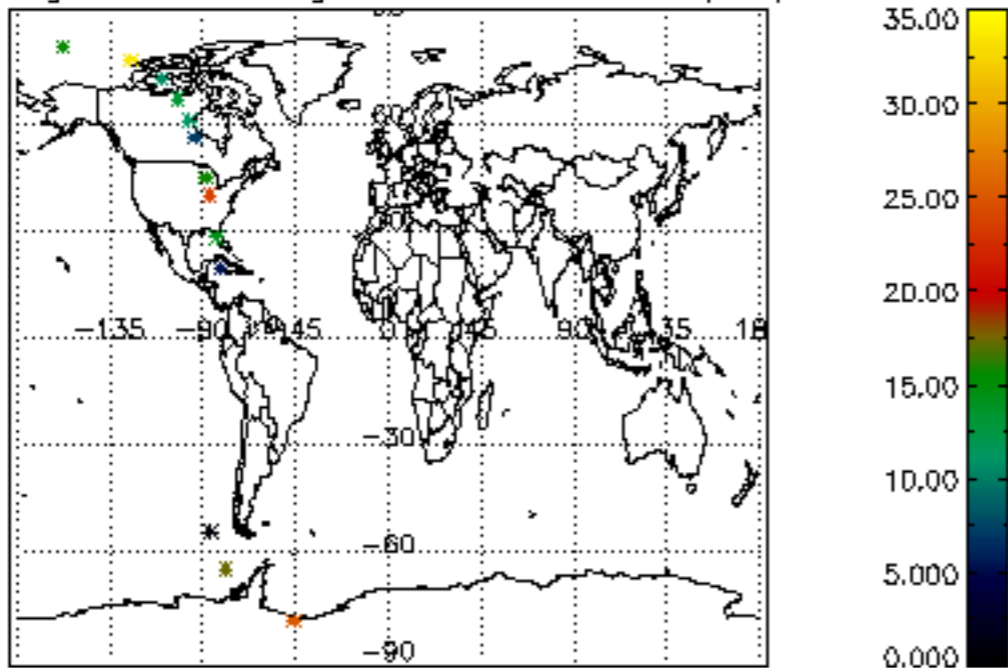
Percentage of cosmic ray hits per profile



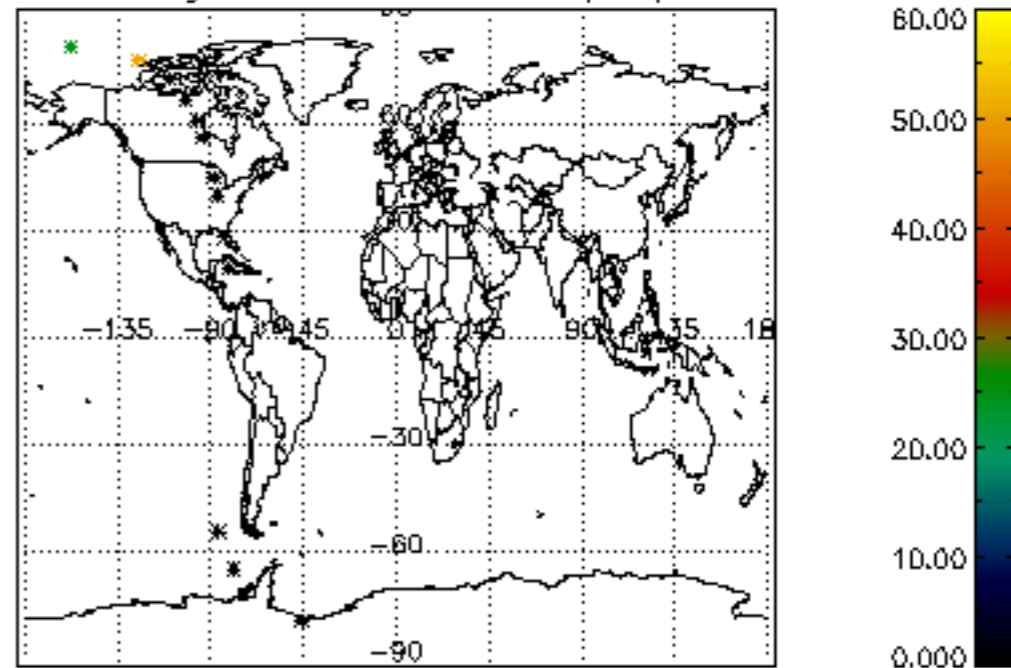
Percentage of datation errors per profile



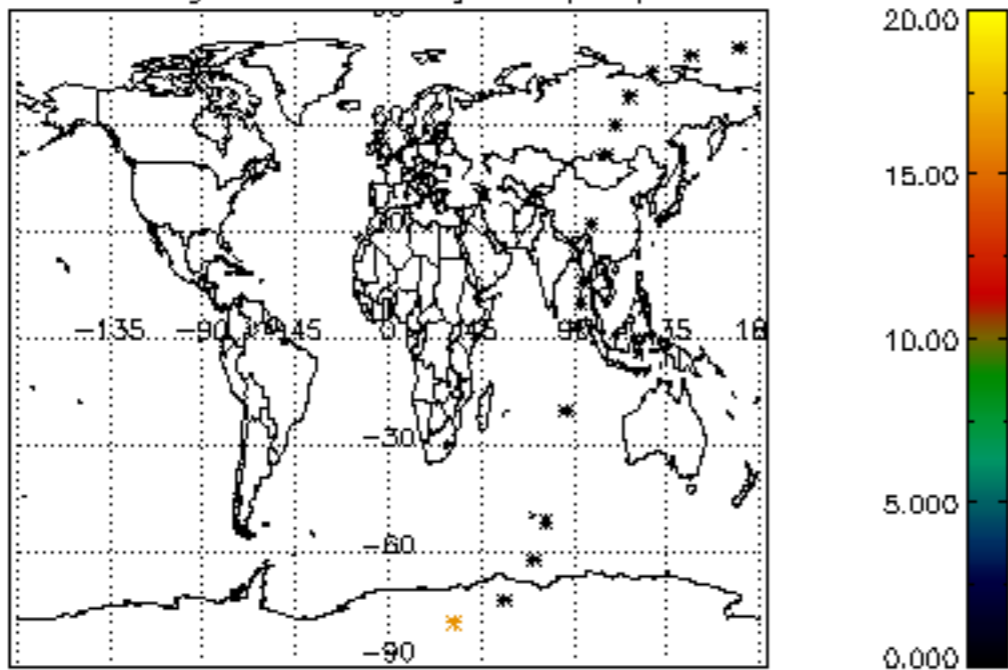
Percentage of star falling outside central band per profile



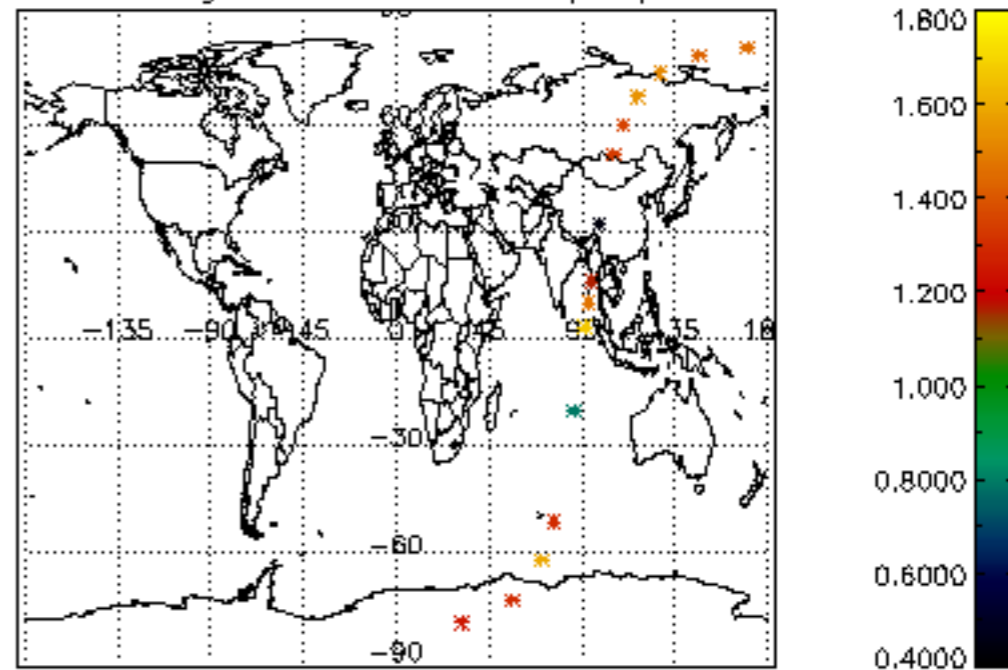
Percentage of saturation errors per profile



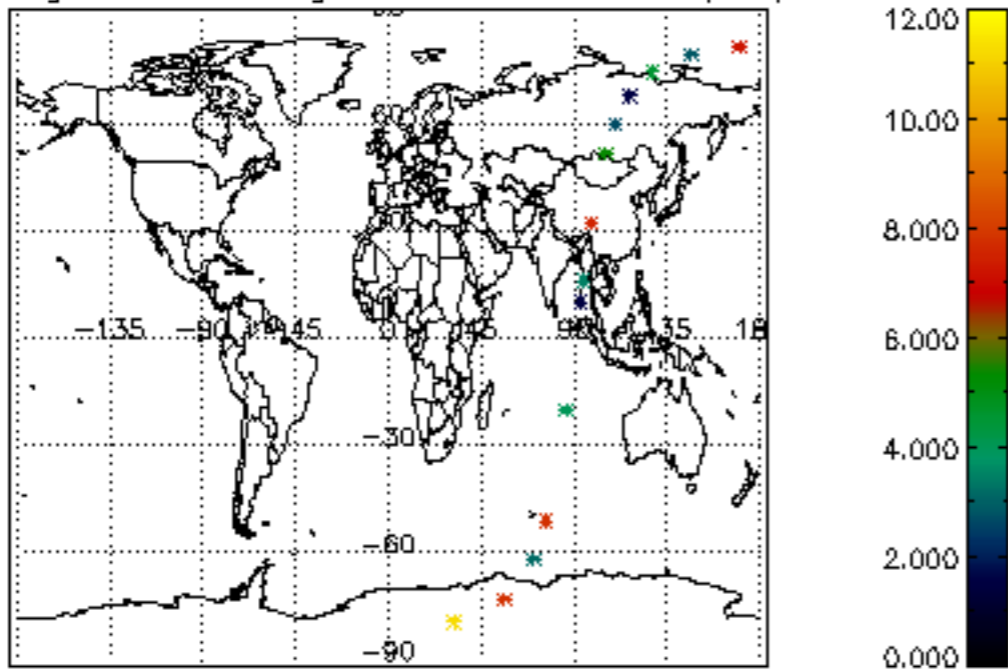
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

