

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	23APR2013 16:32:38
Data source version	GOMOS/6.01
Start time of products	27-03-2006 (27MAR2006 00:00:00)
Stop time of products	28-03-2006 (28MAR2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	29
Nb of prods with errors	0

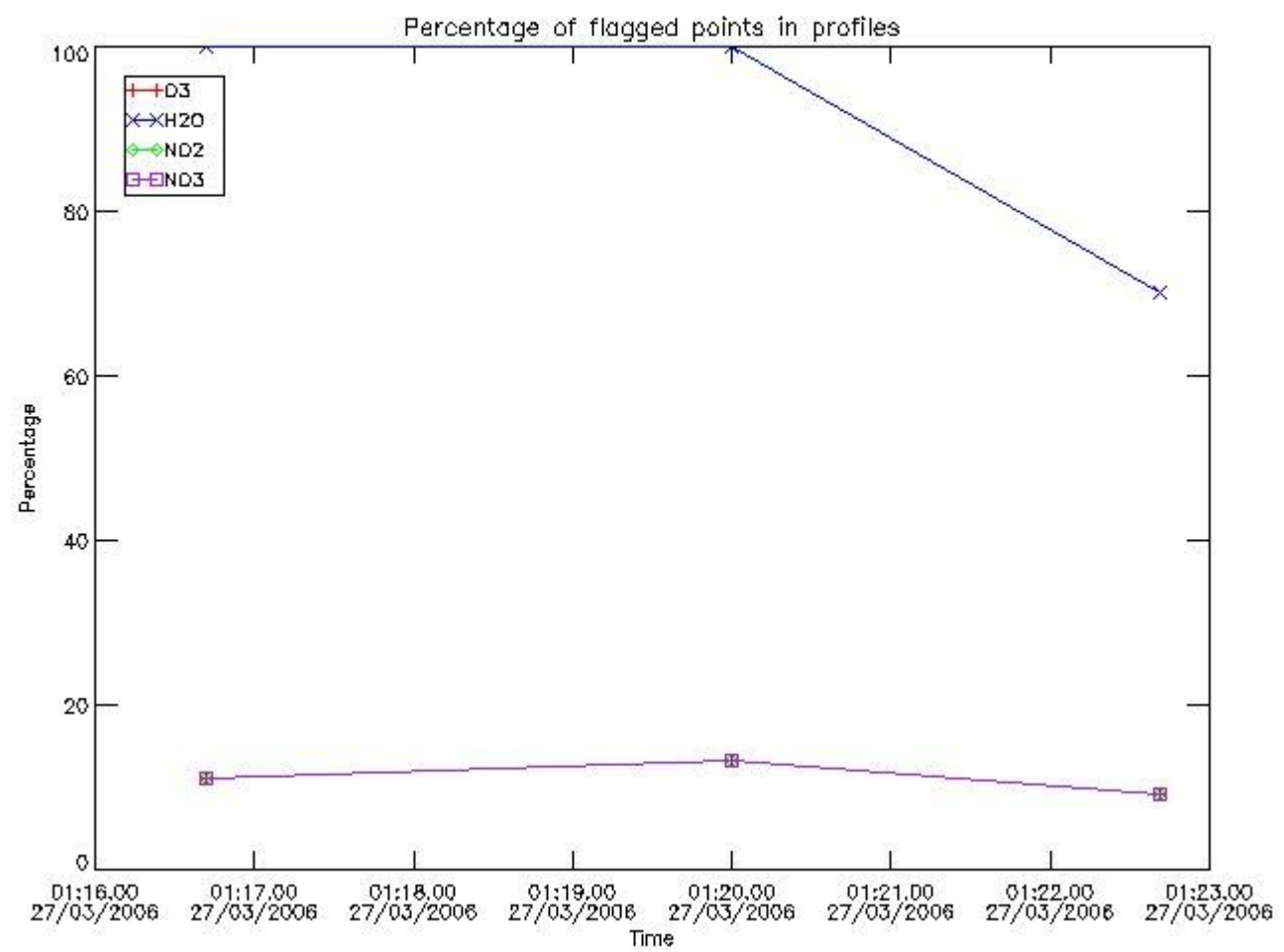
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060327_000738_000000392046_00188_21284_8615.N1	27-MAR-2006 00:07:38	Bright	38.500	62	94Bet Leo	2.1360	9700.0	77	21284	No
2	GOM_NL__2PRFIN20060327_000906_000000392046_00188_21284_8616.N1	27-MAR-2006 00:09:06	Bright	39.000	96	68Del Leo	2.5600	9300.0	78	21284	No
3	GOM_NL__2PRFIN20060327_001600_000000372046_00188_21284_8617.N1	27-MAR-2006 00:16:00	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	21284	No
4	GOM_NL__2PRFIN20060327_001919_000000352046_00188_21284_8618.N1	27-MAR-2006 00:19:19	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	21284	No
5	GOM_NL__2PRFIN20060327_002050_000000342046_00188_21284_8619.N1	27-MAR-2006 00:20:50	Bright	34.000	36	50Alp UMa	1.8000	6300.0	68	21284	No
6	GOM_NL__2PRFIN20060327_002728_000000362046_00188_21284_8620.N1	27-MAR-2006 00:27:28	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	21284	No
7	GOM_NL__2PRFIN20060327_003630_000000372046_00188_21284_8621.N1	27-MAR-2006 00:36:30	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	21284	No
8	GOM_NL__2PRFIN20060327_004140_000000402046_00188_21284_8622.N1	27-MAR-2006 00:41:40	Bright	39.500	19	50Alp Cyg	1.2460	10500.	79	21284	No
9	GOM_NL__2PRFIN20060327_004317_000000412046_00188_21284_8623.N1	27-MAR-2006 00:43:17	Bright	41.000	66	37Gam Cyg	2.2080	5900.0	82	21284	No
10	GOM_NL__2PRFIN20060327_004512_000000402046_00188_21284_8624.N1	27-MAR-2006 00:45:12	Bright	40.000	92	53Eps Cyg	2.5000	4500.0	80	21284	No
11	GOM_NL__2PRFIN20060327_011642_000000462046_00189_21285_8606.N1	27-MAR-2006 01:16:42	Dark	45.500	141	Bet Ara	2.8400	4600.0	91	21285	No
12	GOM_NL__2PRFIN20060327_011959_000000392046_00189_21285_8607.N1	27-MAR-2006 01:19:59	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	21285	No
13	GOM_NL__2PRFIN20060327_012241_000000562046_00189_21285_8608.N1	27-MAR-2006 01:22:41	Dark	55.500	4	Alp1Cen	-0.010000	5800.0	111	21285	No
14	GOM_NL__2PRFIN20060327_012513_000000492046_00189_21285_8609.N1	27-MAR-2006 01:25:13	Straylight	49.000	78	Alp Lup	2.3040	28000.	98	21285	No
15	GOM_NL__2PRFIN20060327_012658_000000412046_00189_21285_8610.N1	27-MAR-2006 01:26:58	Straylight	41.000	95	Zet Cen	2.5450	26000.	82	21285	No
16	GOM_NL__2PRFIN20060327_012832_000000382046_00189_21285_8611.N1	27-MAR-2006 01:28:32	Straylight	37.500	64	Gam Cen	2.2000	10600.	75	21285	No
17	GOM_NL__2PRFIN20060327_013100_000000462046_00189_21285_8612.N1	27-MAR-2006 01:31:00	Straylight	46.000	123	lot Cen	2.7500	10200.	92	21285	No
18	GOM_NL__2PRFIN20060327_013607_000000472046_00189_21285_8613.N1	27-MAR-2006 01:36:07	Straylight	47.000	106	9Bet Crv	2.6480	5600.0	94	21285	No
19	GOM_NL__2PRFIN20060327_013810_000000462046_00189_21285_8614.N1	27-MAR-2006 01:38:10	Twilight	45.500	100	4Gam Crv	2.5800	13100.	91	21285	No
20	GOM_NL__2PRFIN20060327_014813_000000412046_00189_21285_8615.N1	27-MAR-2006 01:48:13	Bright	41.000	62	94Bet Leo	2.1360	9700.0	82	21285	No
21	GOM_NL__2PRFIN20060327_014942_000000382046_00189_21285_8616.N1	27-MAR-2006 01:49:42	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	21285	No
22	GOM_NL__2PRFIN20060327_015636_000000362046_00189_21285_8617.N1	27-MAR-2006 01:56:36	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	21285	No
23	GOM_NL__2PRFIN20060327_015955_000000372046_00189_21285_8618.N1	27-MAR-2006 01:59:55	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	21285	No
24	GOM_NL__2PRFIN20060327_020126_000000352046_00189_21285_8619.N1	27-MAR-2006 02:01:26	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	21285	No
25	GOM_NL__2PRFIN20060327_020804_000000392046_00189_21285_8620.N1	27-MAR-2006 02:08:04	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	21285	No
26	GOM_NL__2PRFIN20060327_021706_000000362046_00189_21285_8621.N1	27-MAR-2006 02:17:06	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	21285	No
27	GOM_NL__2PRFIN20060327_022216_000000412046_00189_21285_8622.N1	27-MAR-2006 02:22:16	Bright	40.500	19	50Alp Cyg	1.2460	10500.	81	21285	No
28	GOM_NL__2PRFIN20060327_022353_000000412046_00189_21285_8623.N1	27-MAR-2006 02:23:53	Bright	40.500	66	37Gam Cyg	2.2080	5900.0	81	21285	No
29	GOM_NL__2PRFIN20060327_022548_000000382046_00189_21285_8624.N1	27-MAR-2006 02:25:48	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	21285	No

3. Quality information per product

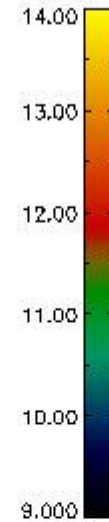
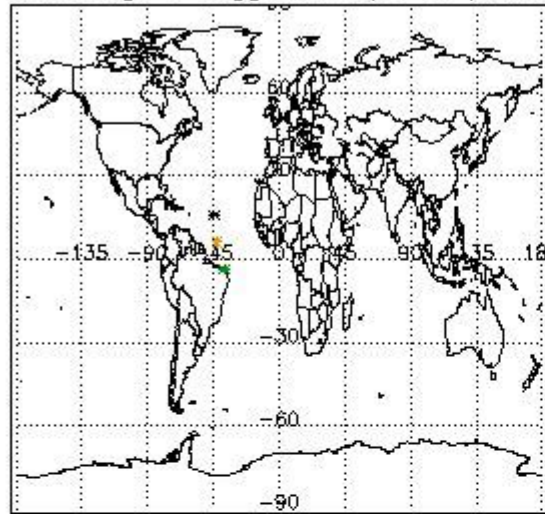
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

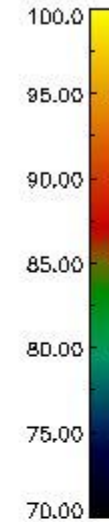
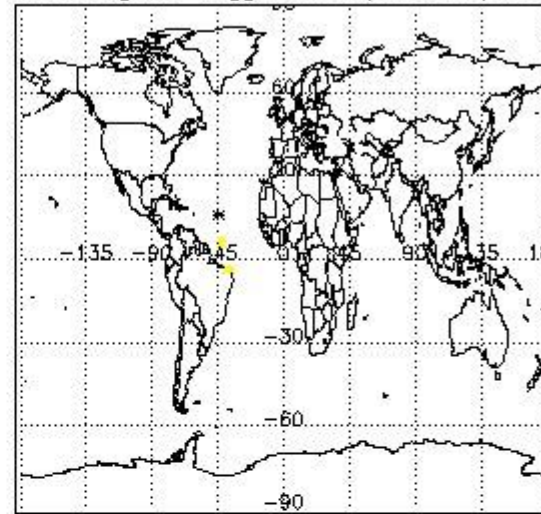


3.2 Plot quality information per product (world map)

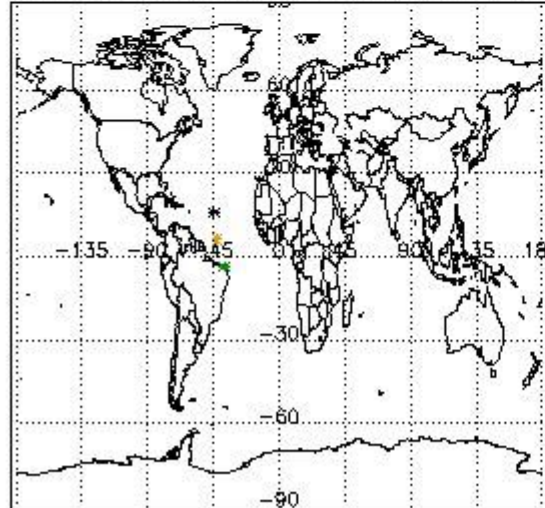
Percentage of flagged data per O3 profile



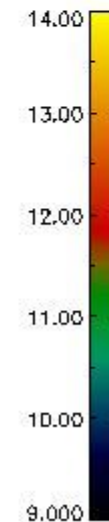
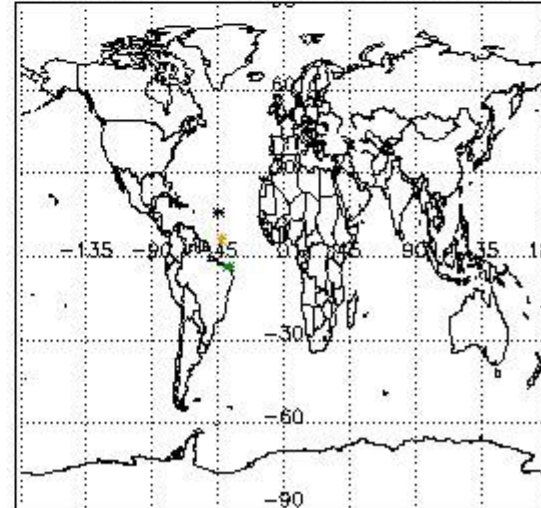
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

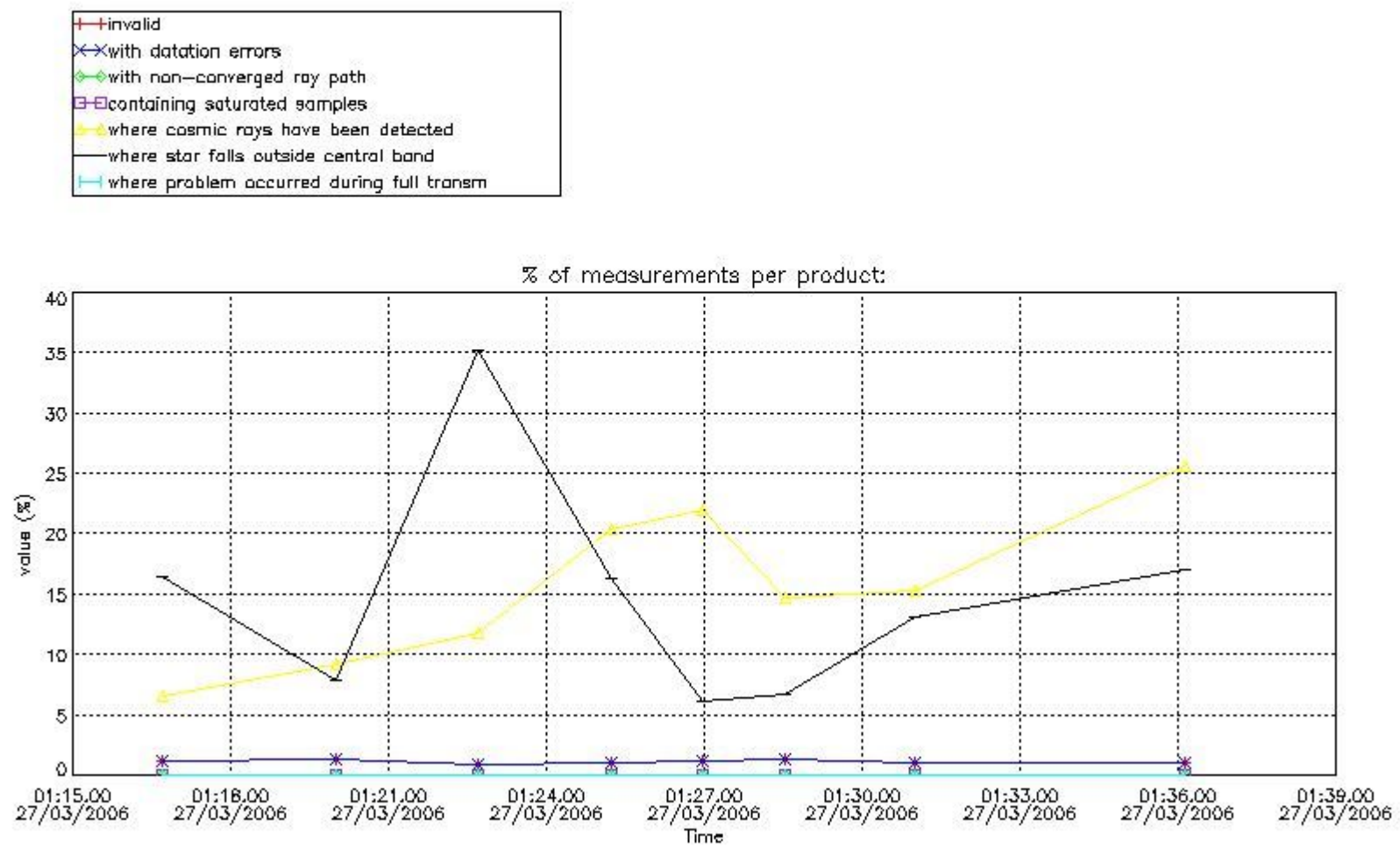


4. Level 1 quality information per product

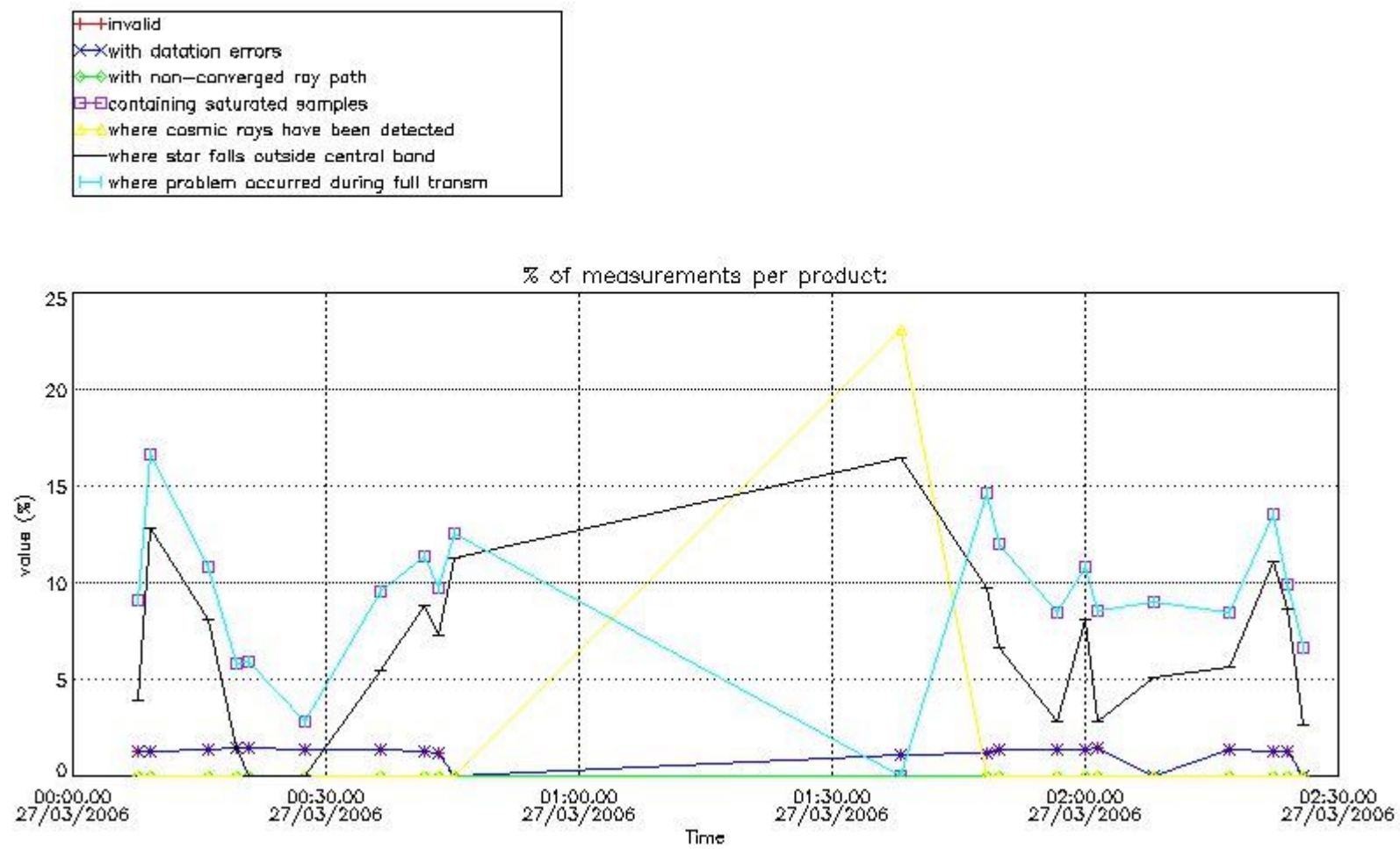
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



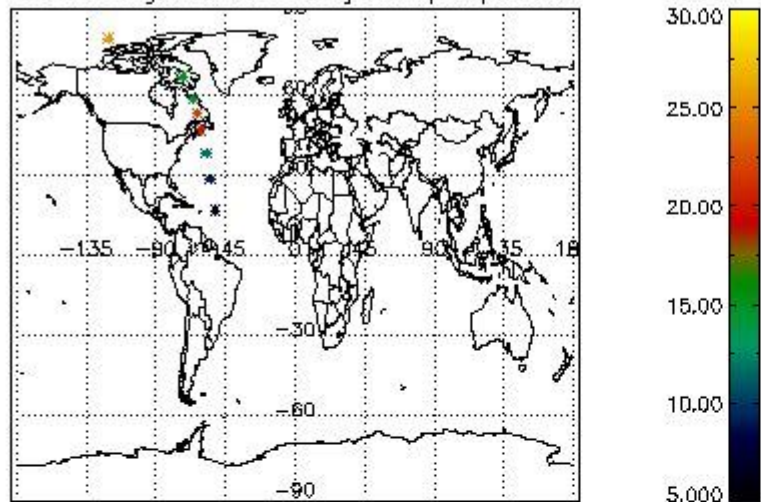
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



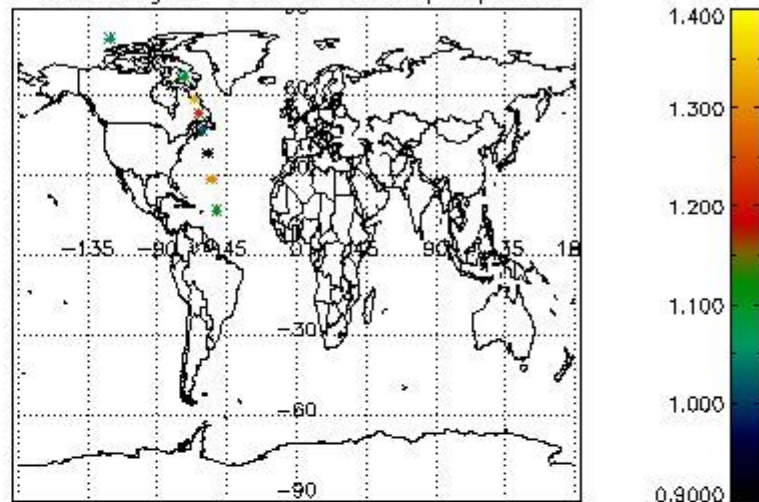
4.2 Plot quality information per product coming from level 1b processing (world map)

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

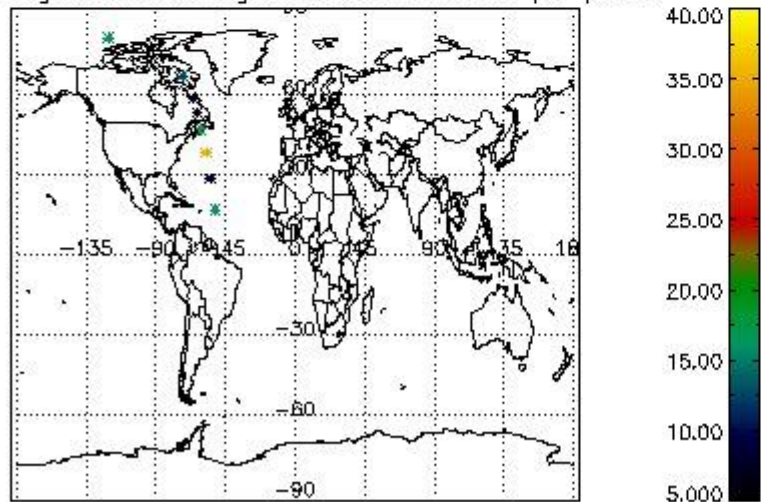
Percentage of cosmic ray hits per profile



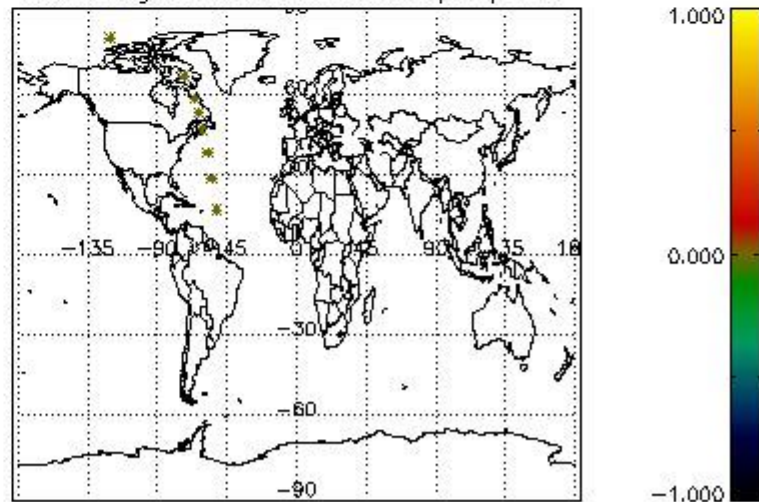
Percentage of datation errors per profile



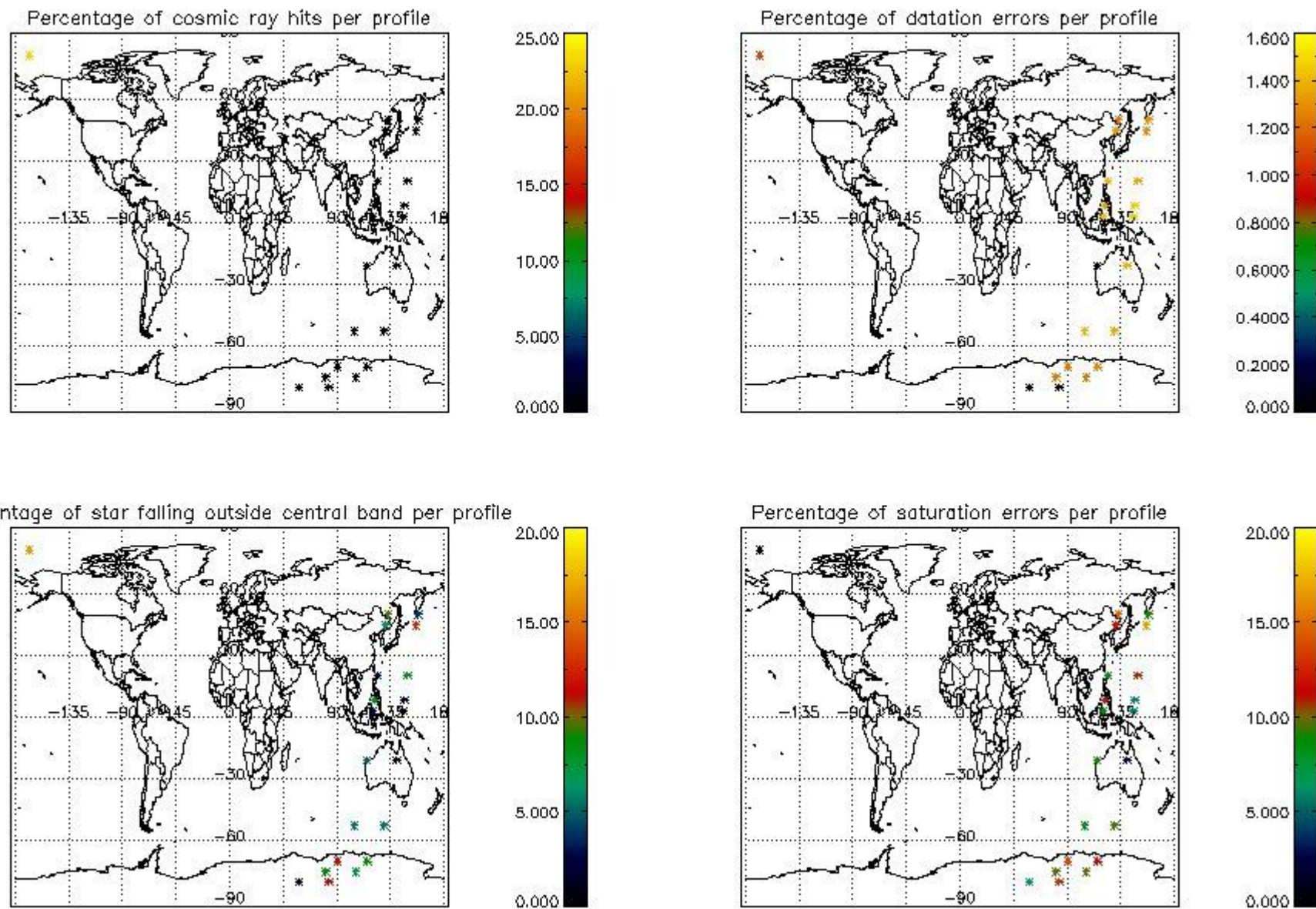
Percentage of star falling outside central band per profile



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

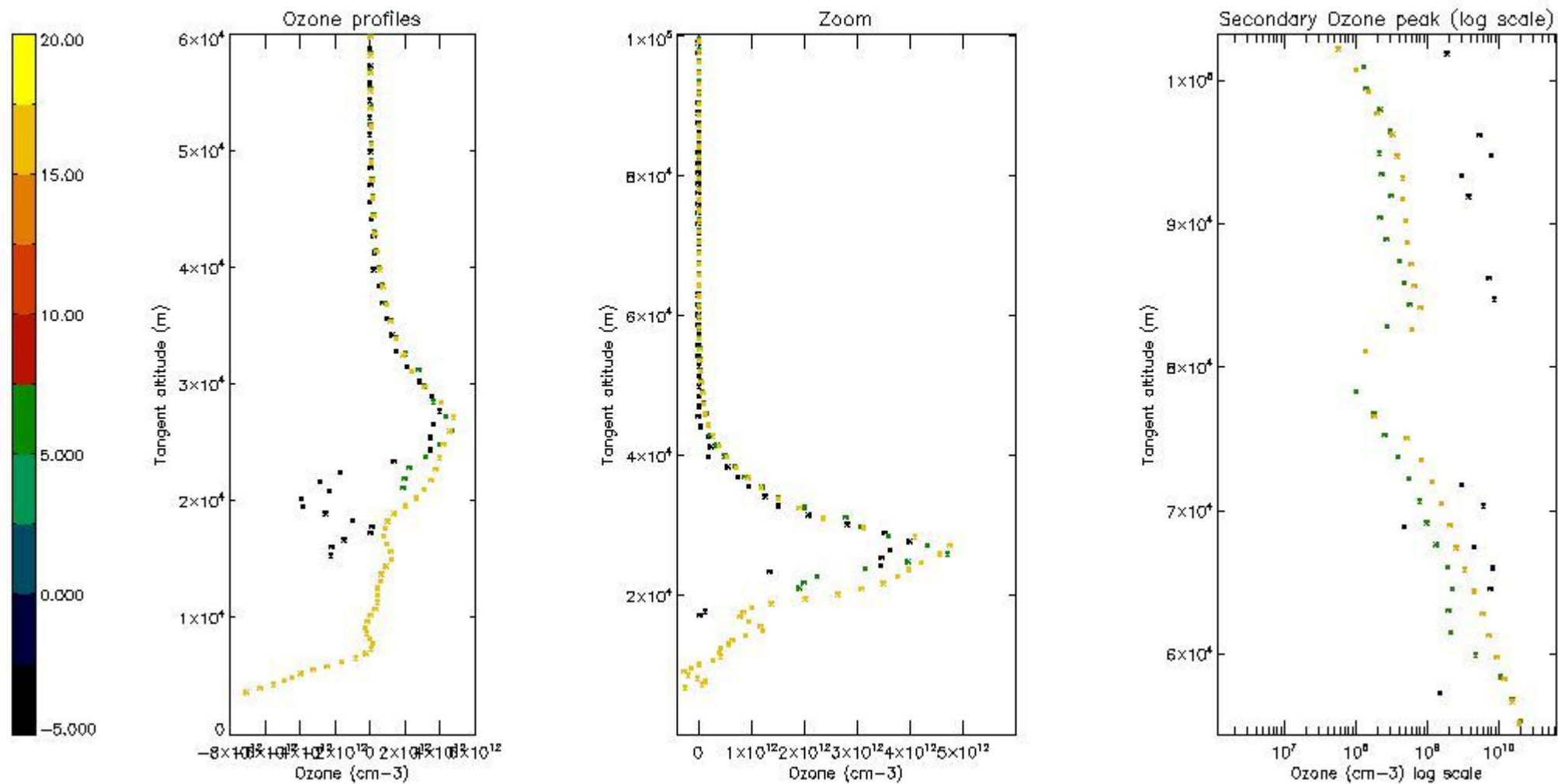
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	13
STD < 20	6

STD < 10	4
STD < 5	2

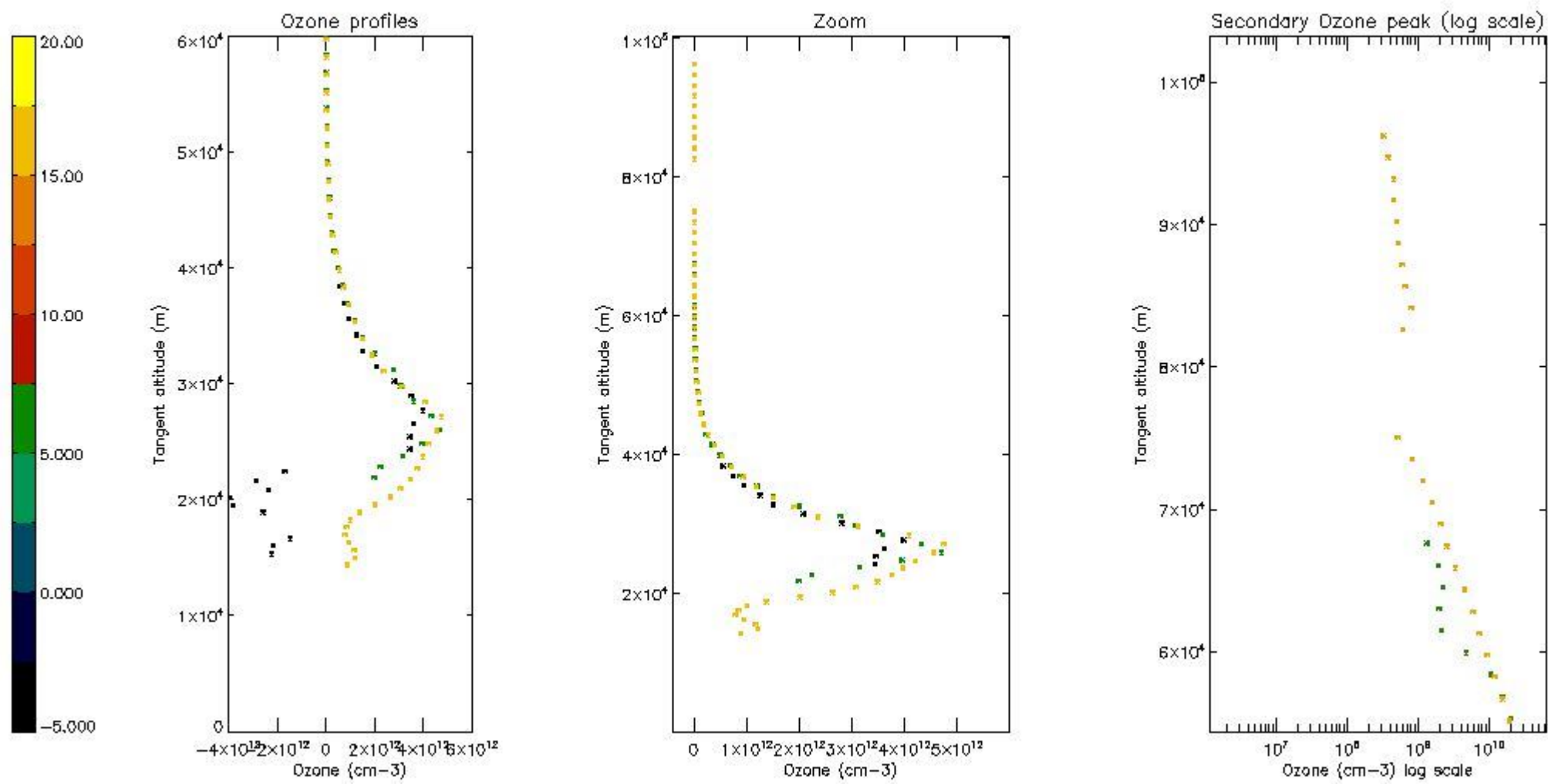
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



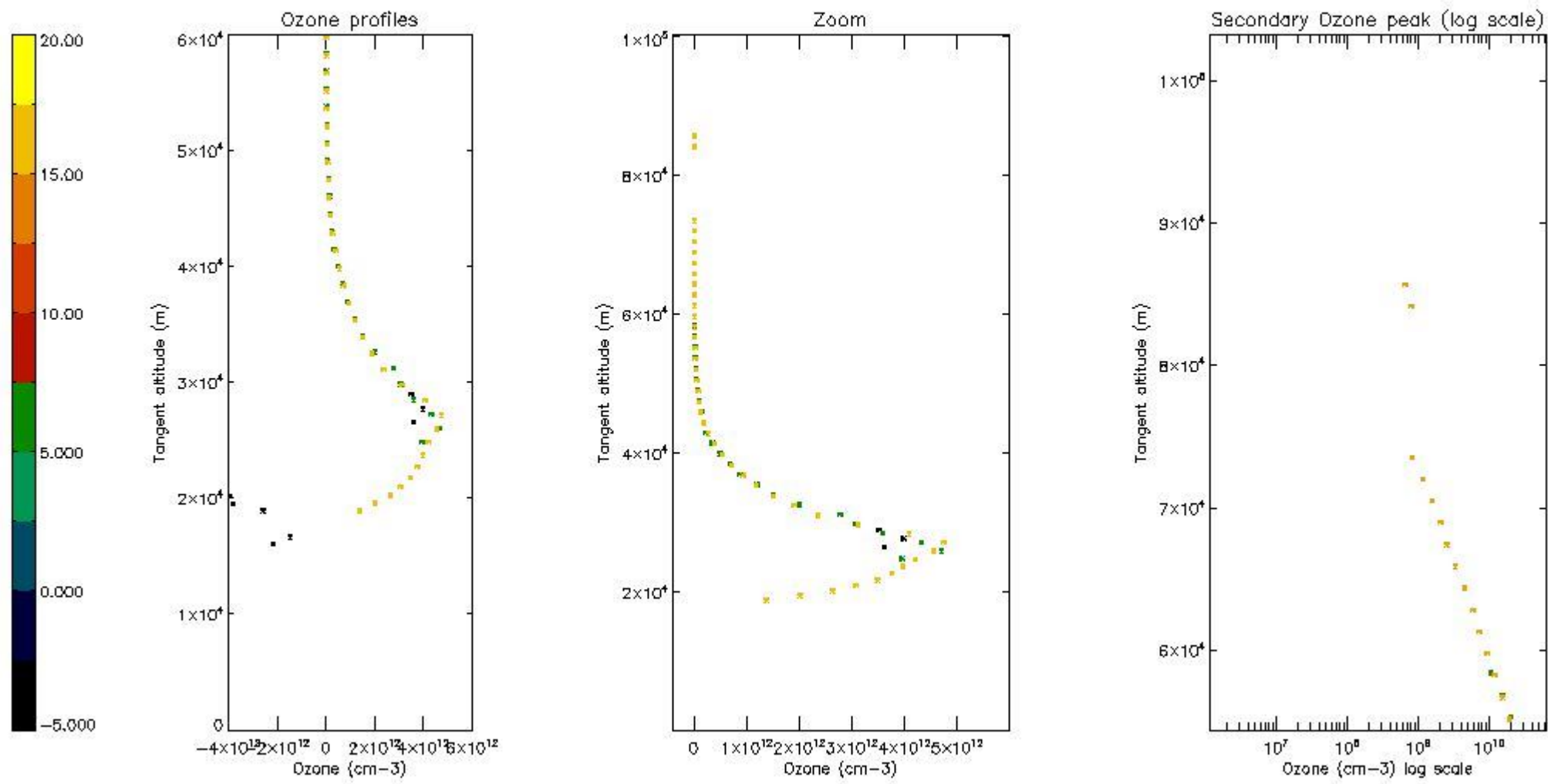
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



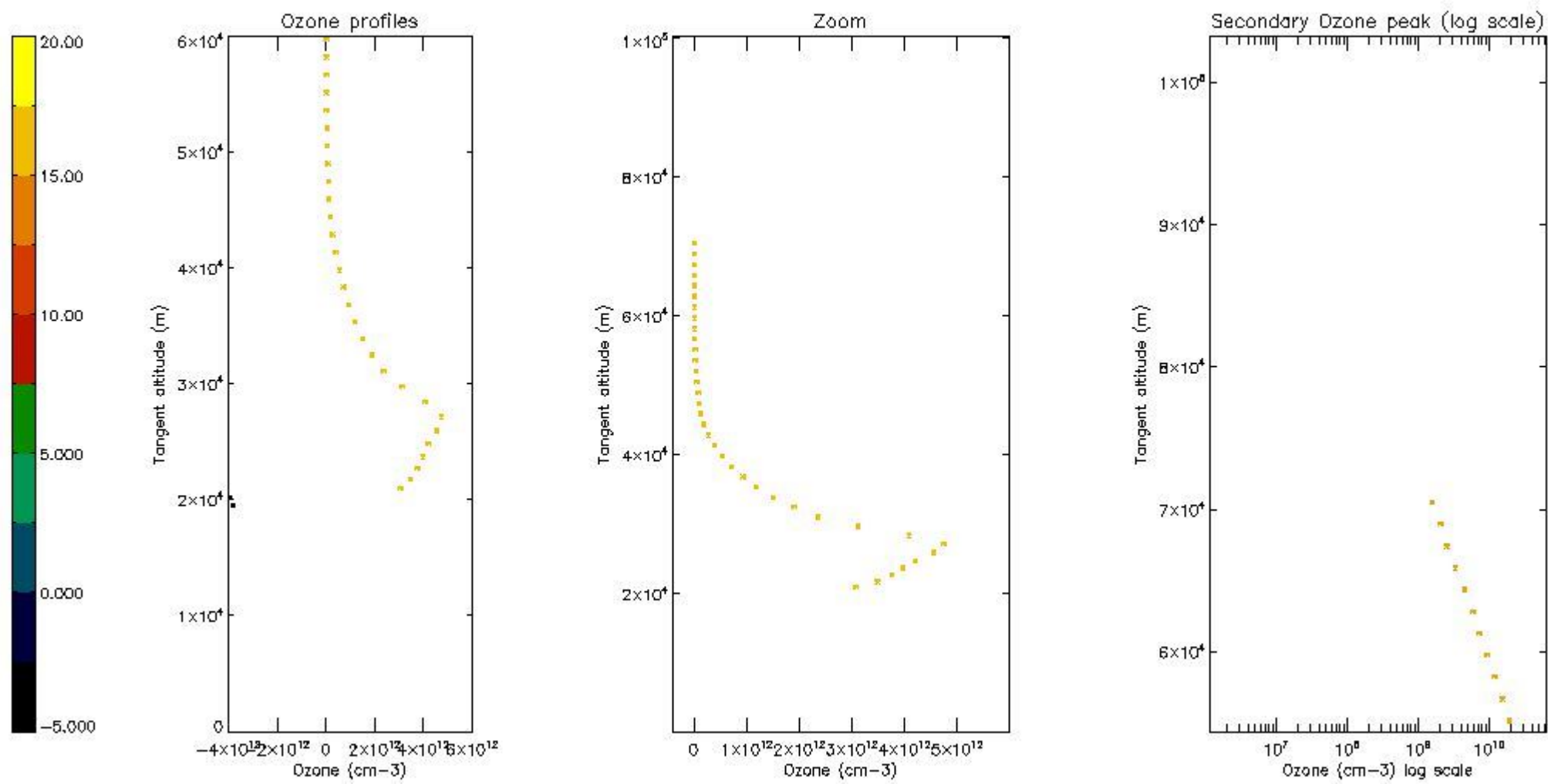
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



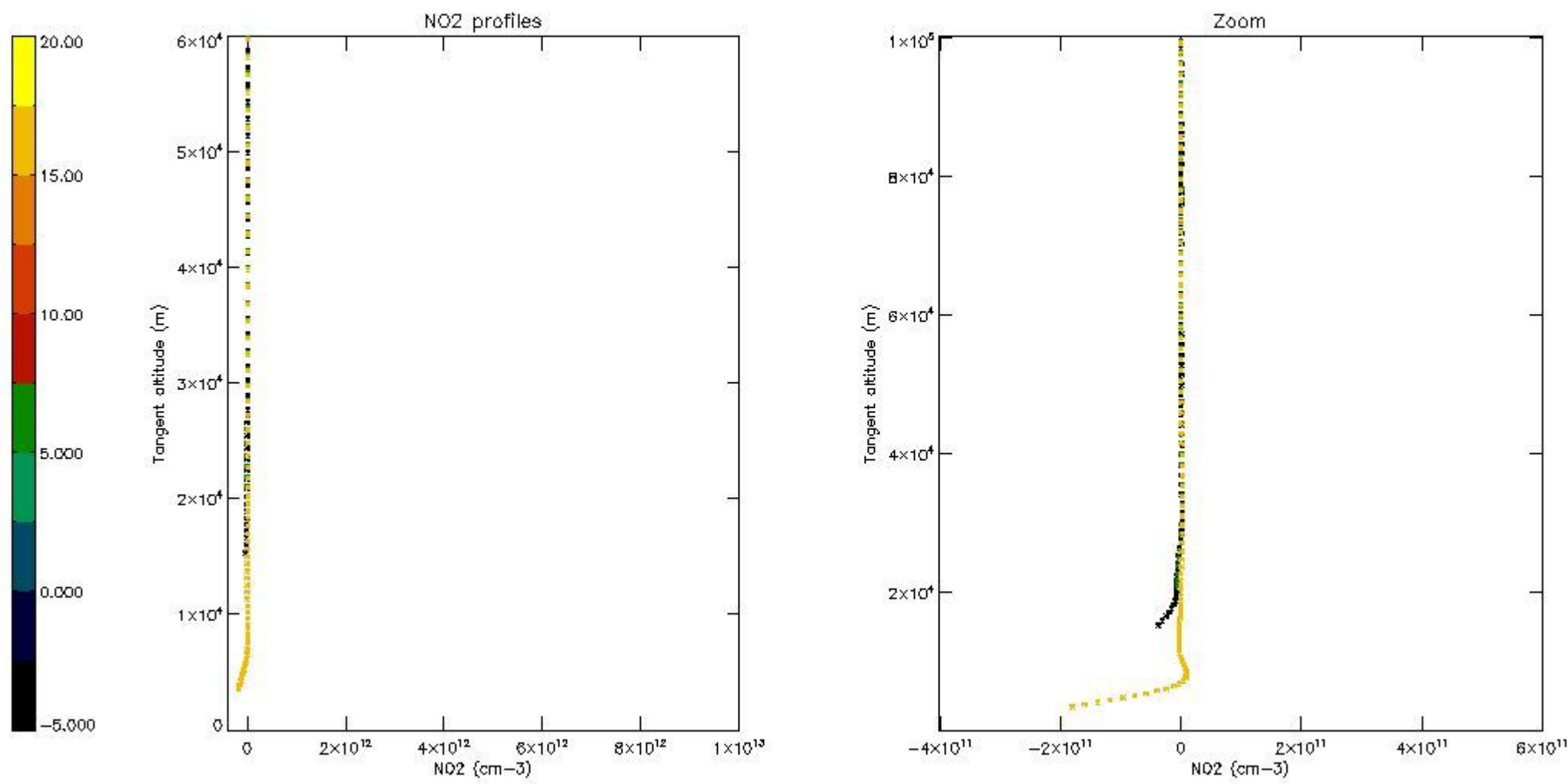
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



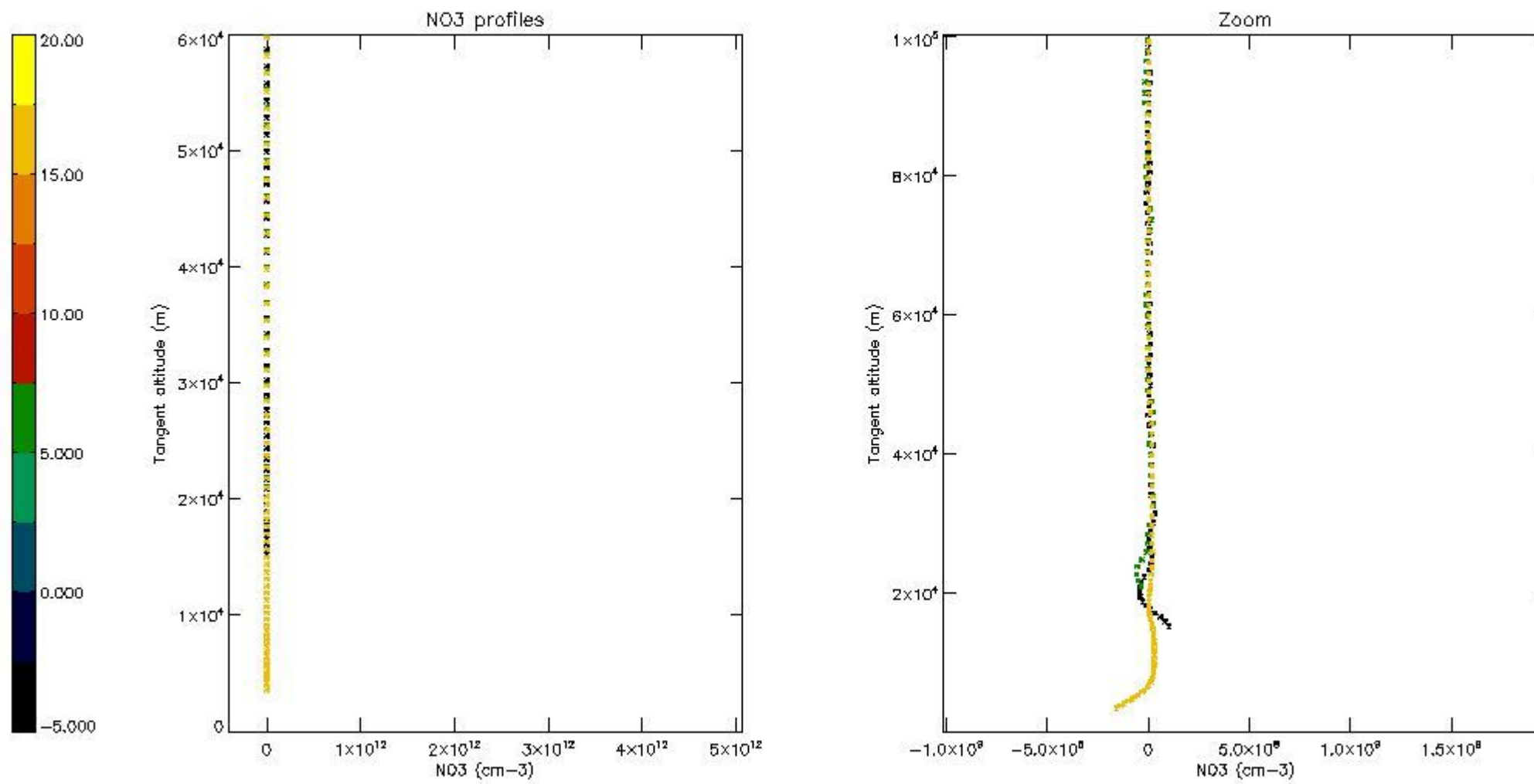
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	27-MAR-2006 00:07:38
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	27-MAR-2006 00:07:38
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	27-MAR-2006 00:07:38

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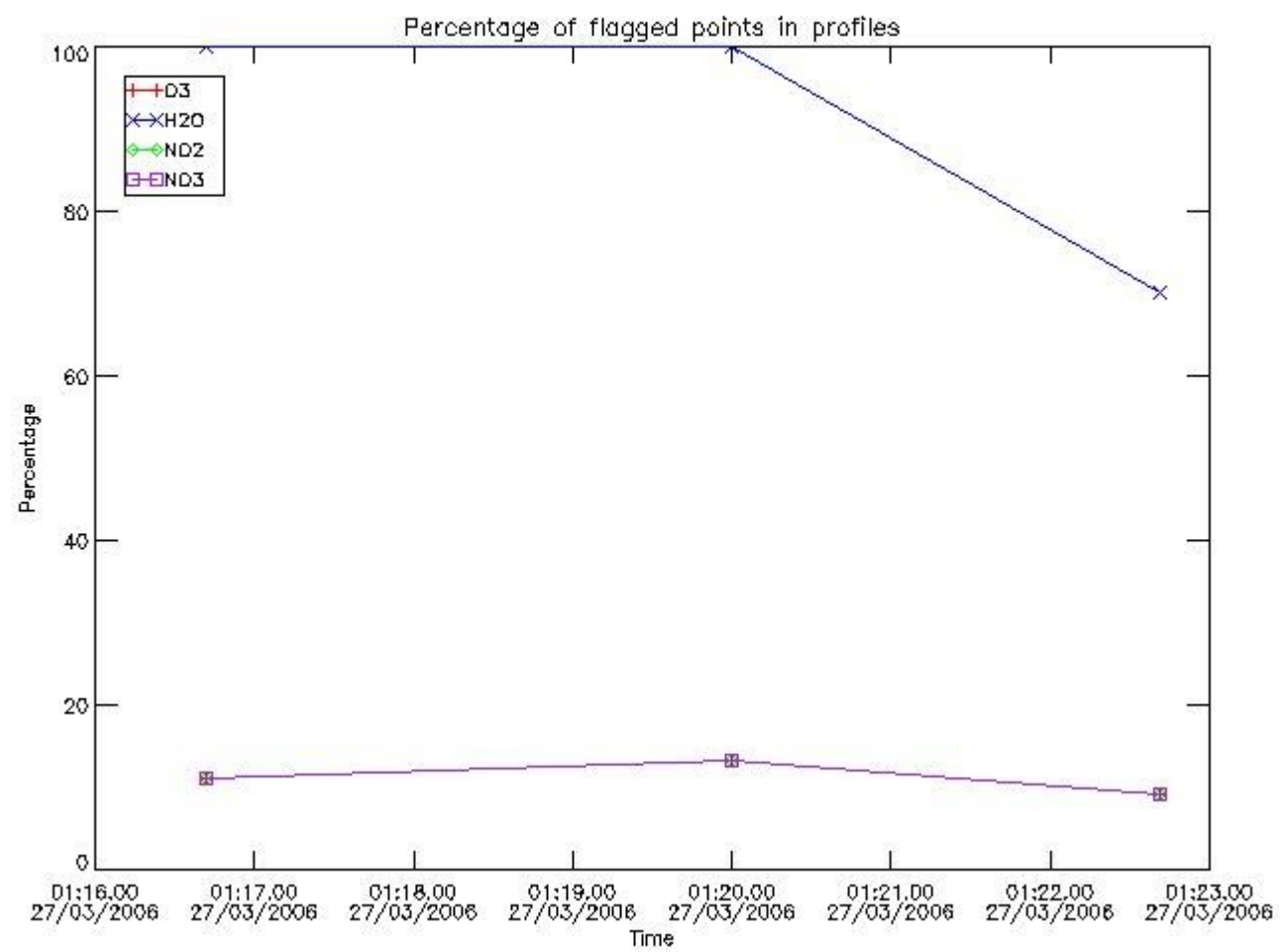
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10	GOM_NL__2PRFIN20060327_004512_000000402046_00188_21284_8624.N1	27-MAR-2006 00:45:12	Bright	40.000	92	53Eps Cyg	2.5000	4500.0	80	21284	No
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18	GOM_NL__2PRFIN20060327_013607_000000472046_00189_21285_8613.N1	27-MAR-2006 01:36:07	Straylight	47.000	106	9Bet Crv	2.6480	5600.0	94	21285	No
19	GOM_NL__2PRFIN20060327_013810_000000462046_00189_21285_8614.N1	27-MAR-2006 01:38:10	Twilight	45.500	100	4Gam Crv	2.5800	13100.	91	21285	No
20	GOM_NL__2PRFIN20060327_014813_000000412046_00189_21285_8615.N1	27-MAR-2006 01:48:13	Bright	41.000	62	94Bet Leo	2.1360	9700.0	82	21285	No
21	GOM_NL__2PRFIN20060327_014942_000000382046_00189_21285_8616.N1	27-MAR-2006 01:49:42	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	21285	No
22	GOM_NL__2PRFIN20060327_015636_000000362046_00189_21285_8617.N1	27-MAR-2006 01:56:36	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	21285	No
23	GOM_NL__2PRFIN20060327_015955_000000372046_00189_21285_8618.N1	27-MAR-2006 01:59:55	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	21285	No
24	GOM_NL__2PRFIN20060327_020126_000000352046_00189_21285_8619.N1	27-MAR-2006 02:01:26	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	21285	No
25	GOM_NL__2PRFIN20060327_020804_000000392046_00189_21285_8620.N1	27-MAR-2006 02:08:04	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	21285	No
26	GOM_NL__2PRFIN20060327_021706_000000362046_00189_21285_8621.N1	27-MAR-2006 02:17:06	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	21285	No
27	GOM_NL__2PRFIN20060327_022216_000000412046_00189_21285_8622.N1	27-MAR-2006 02:22:16	Bright	40.500	19	50Alp Cyg	1.2460	10500.	81	21285	No
28	GOM_NL__2PRFIN20060327_022353_000000412046_00189_21285_8623.N1	27-MAR-2006 02:23:53	Bright	40.500	66	37Gam Cyg	2.2080	5900.0	81	21285	No
29	GOM_NL__2PRFIN20060327_022548_000000382046_00189_21285_8624.N1	27-MAR-2006 02:25:48	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	21285	No

3. Quality information per product

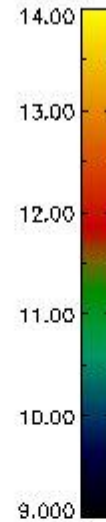
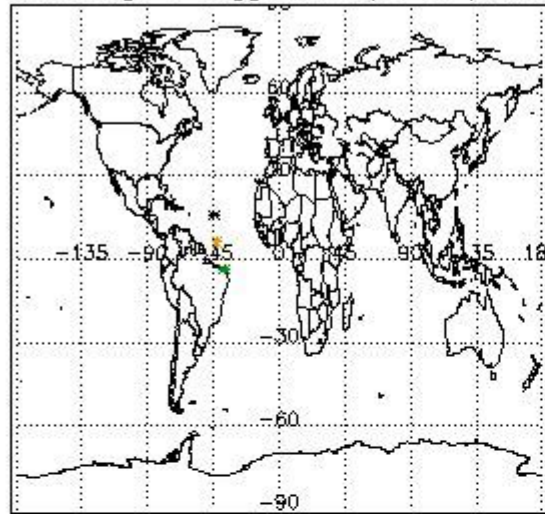
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

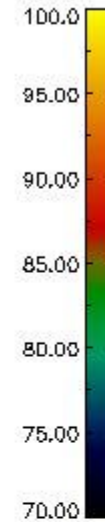
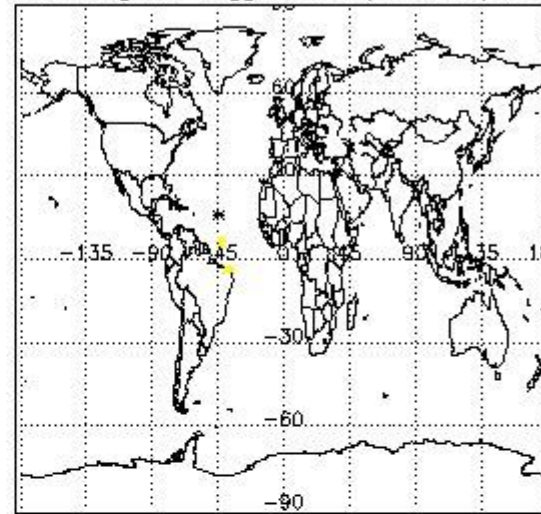


3.2 Plot quality information per product (world map)

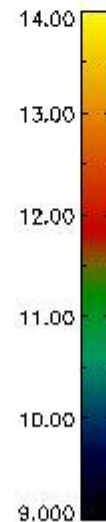
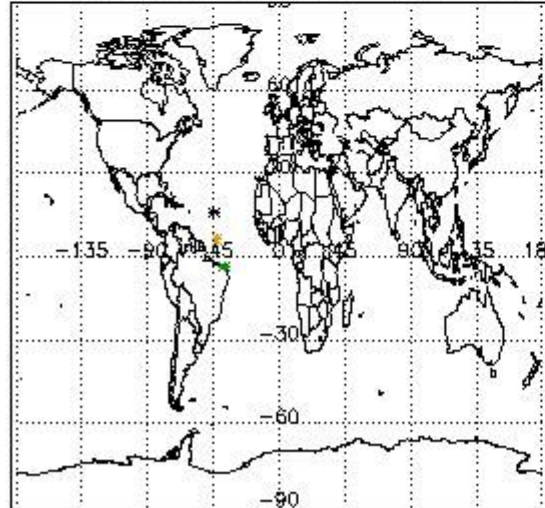
Percentage of flagged data per O3 profile



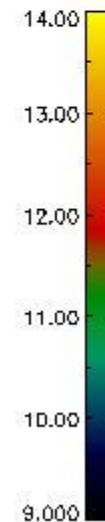
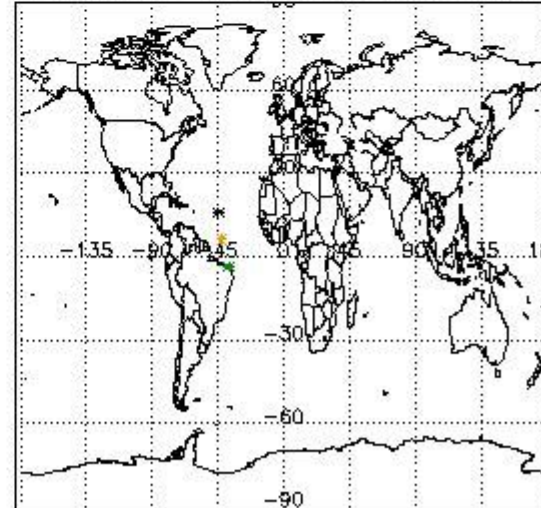
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

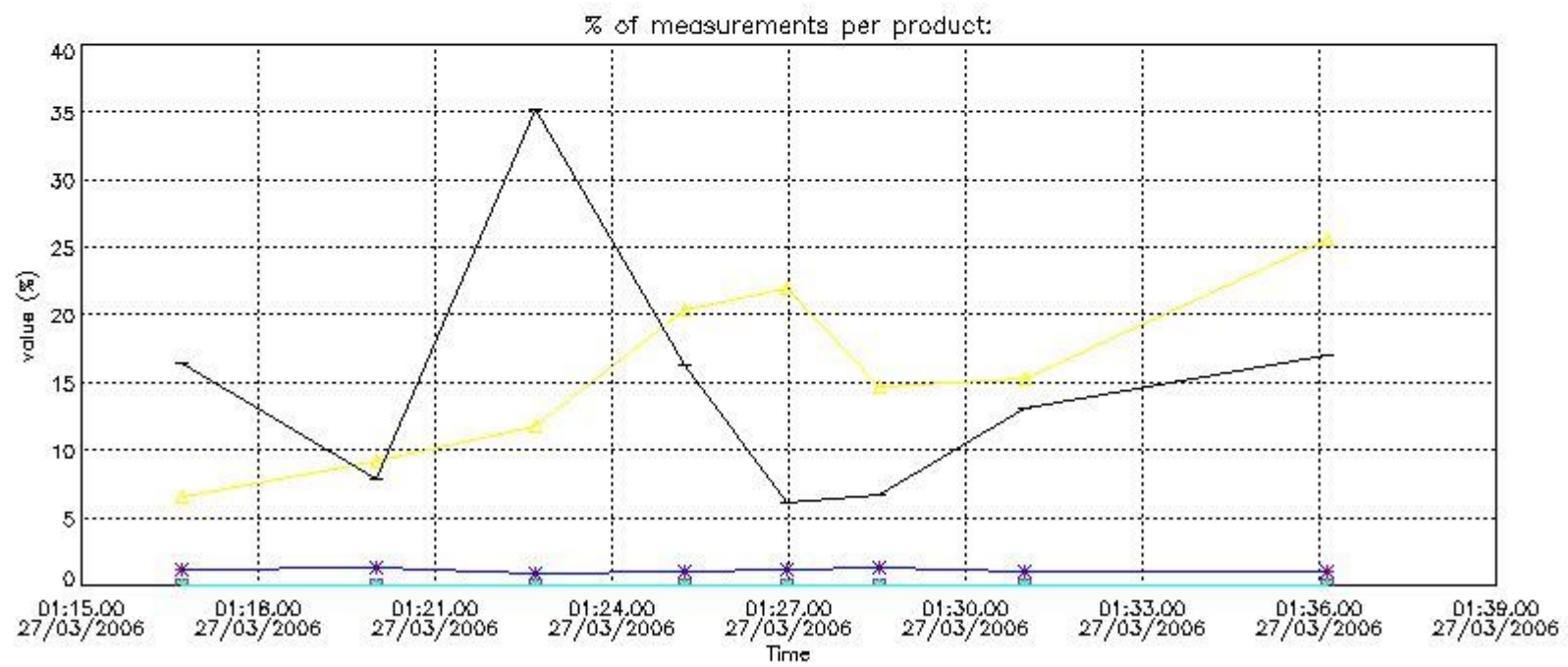


4. Level 1 quality information per product

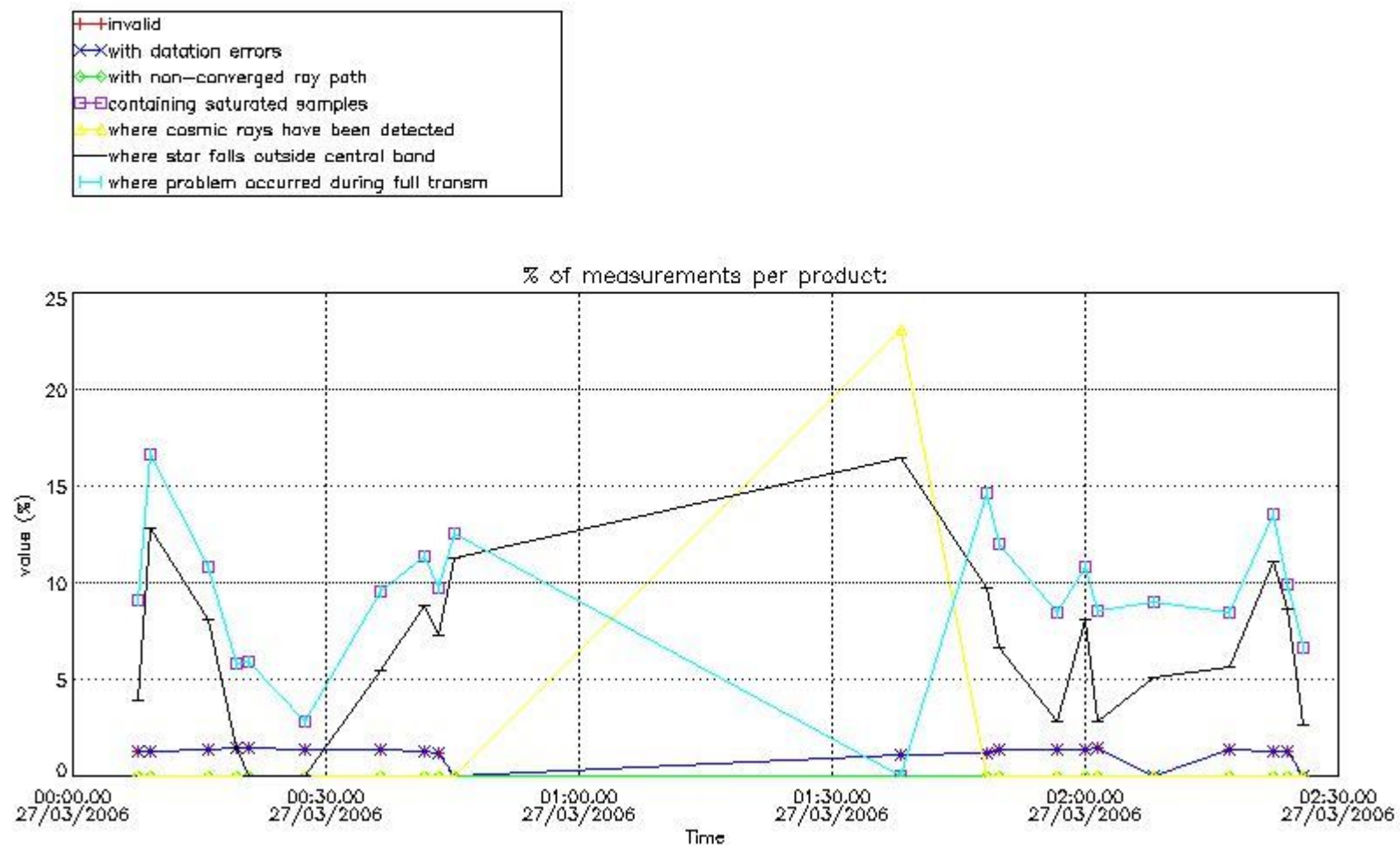
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



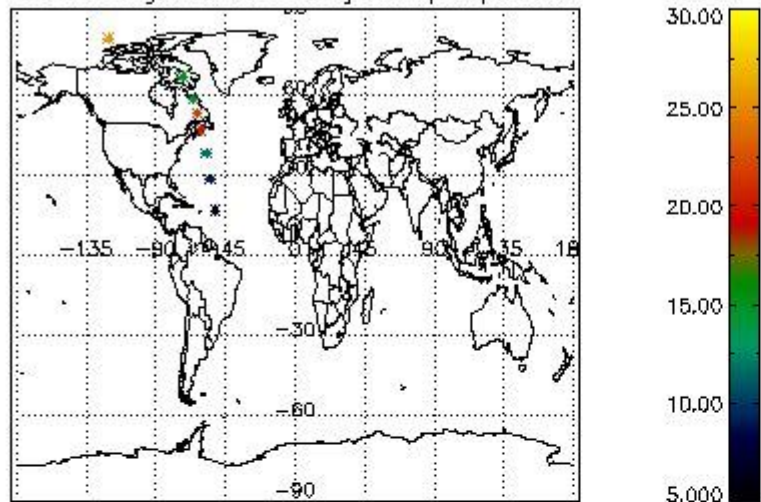
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



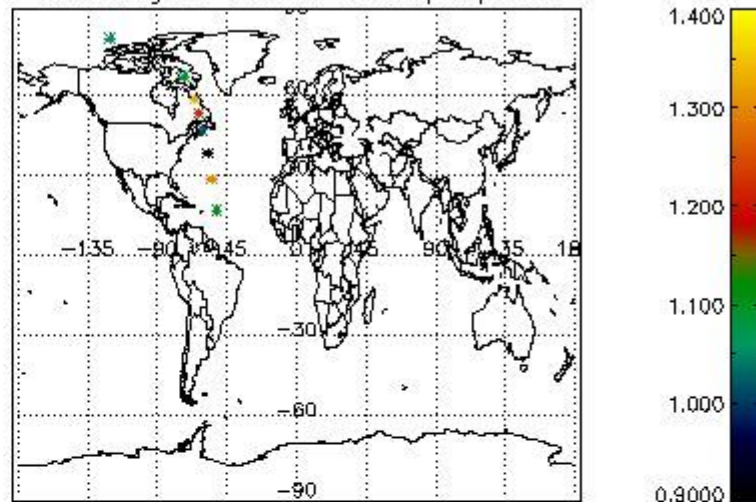
4.2 Plot quality information per product coming from level 1b processing (world map)

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

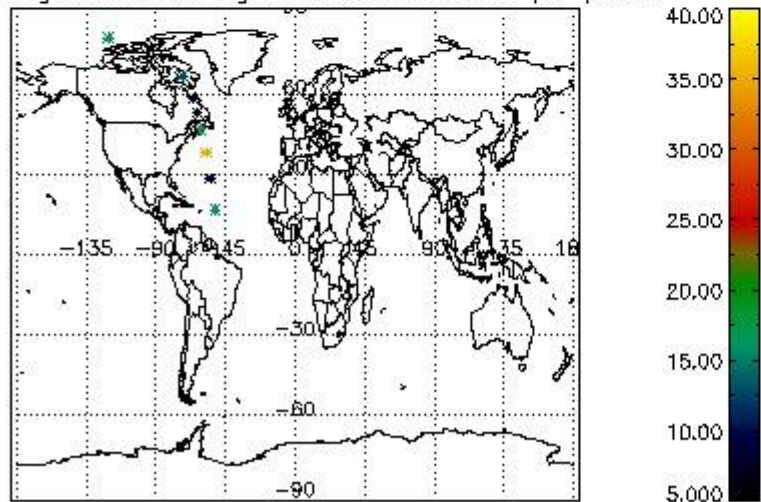
Percentage of cosmic ray hits per profile



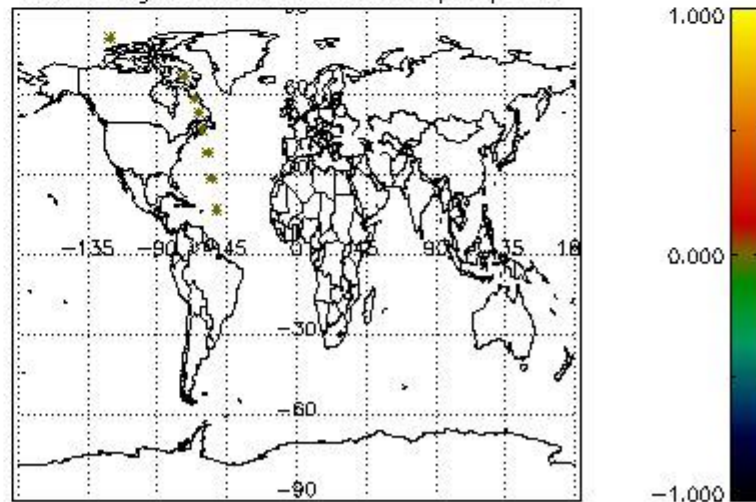
Percentage of datation errors per profile



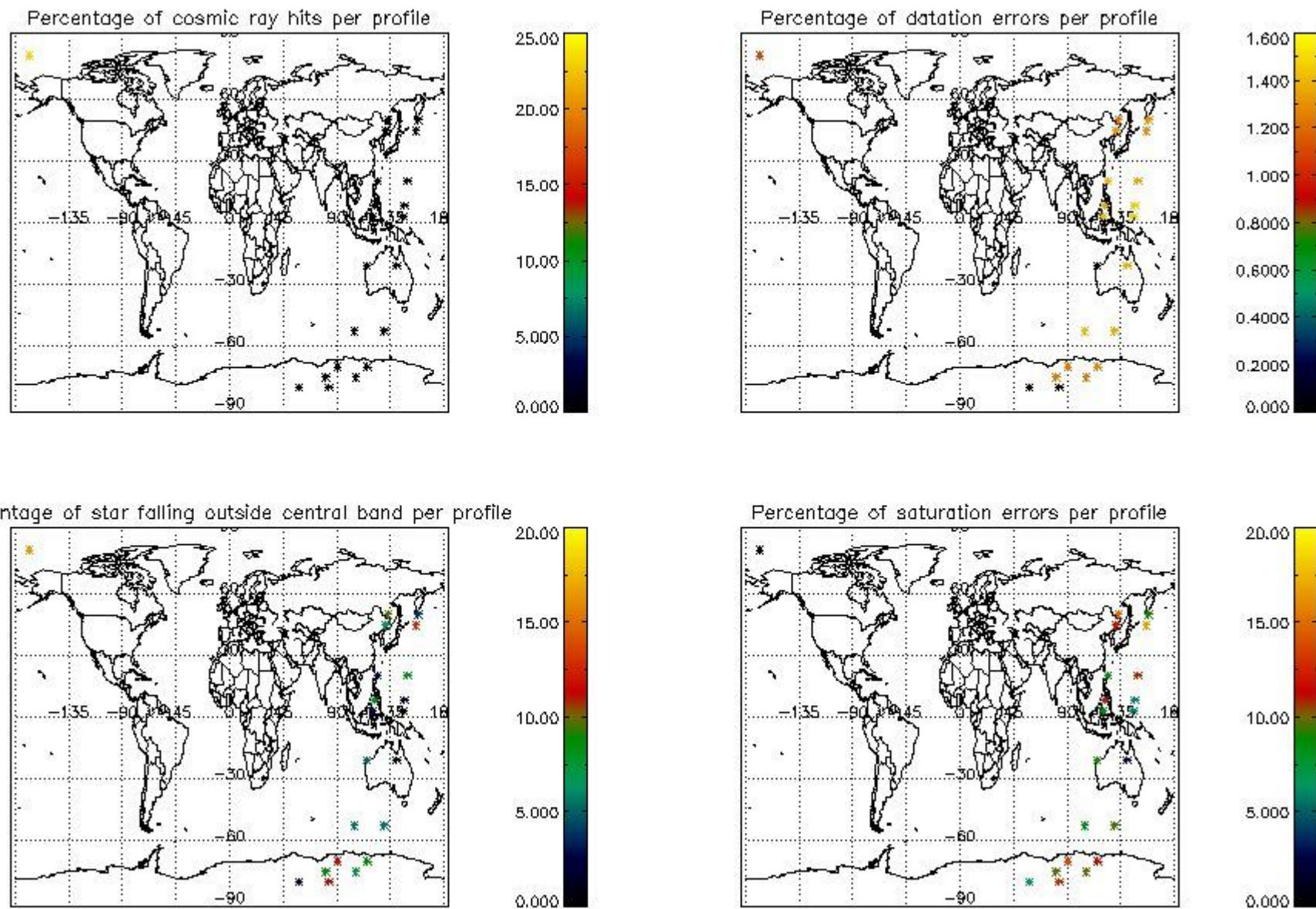
Percentage of star falling outside central band per profile



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

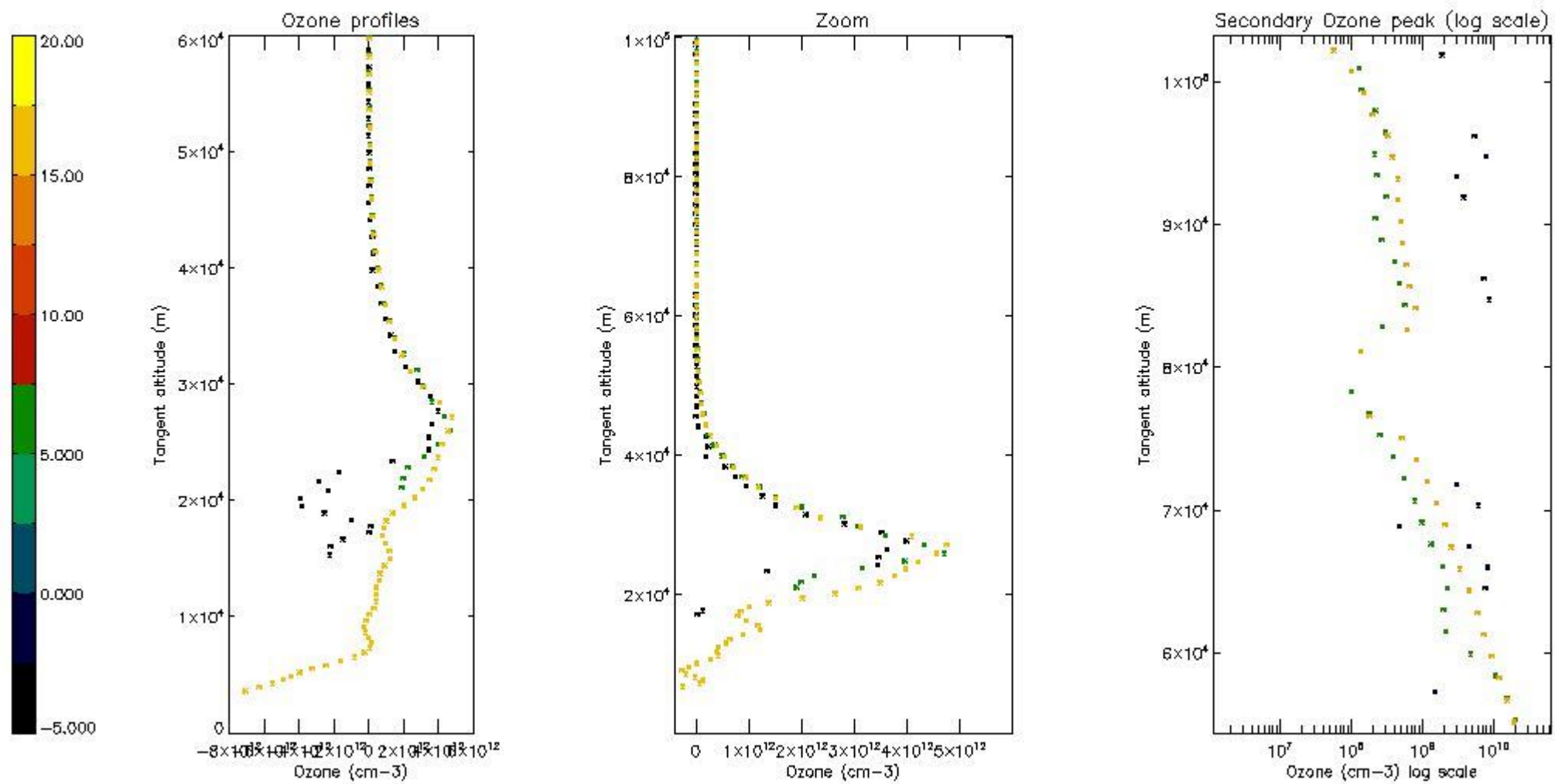
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	13
STD < 20	6

STD < 10	4
STD < 5	2

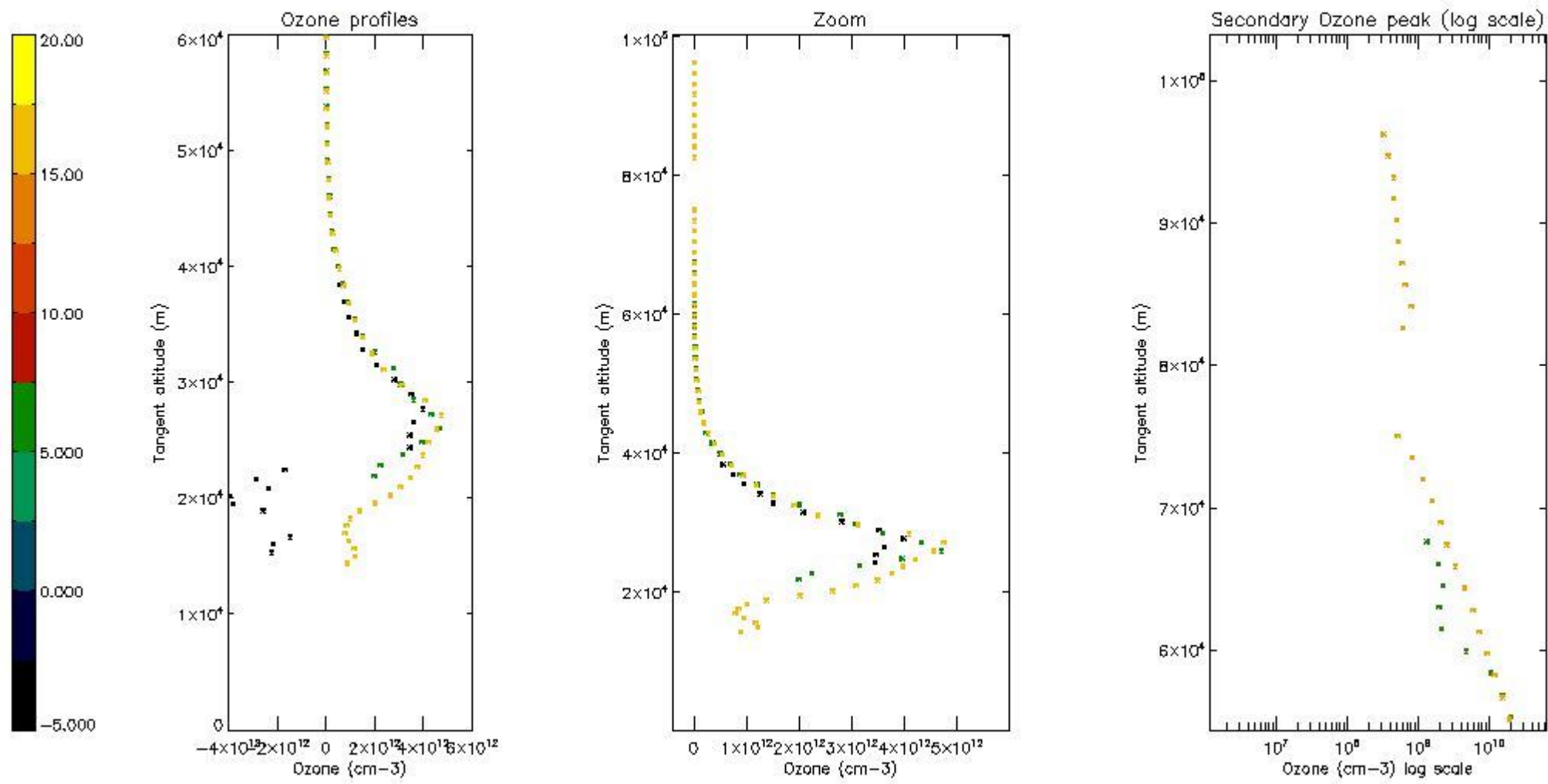
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



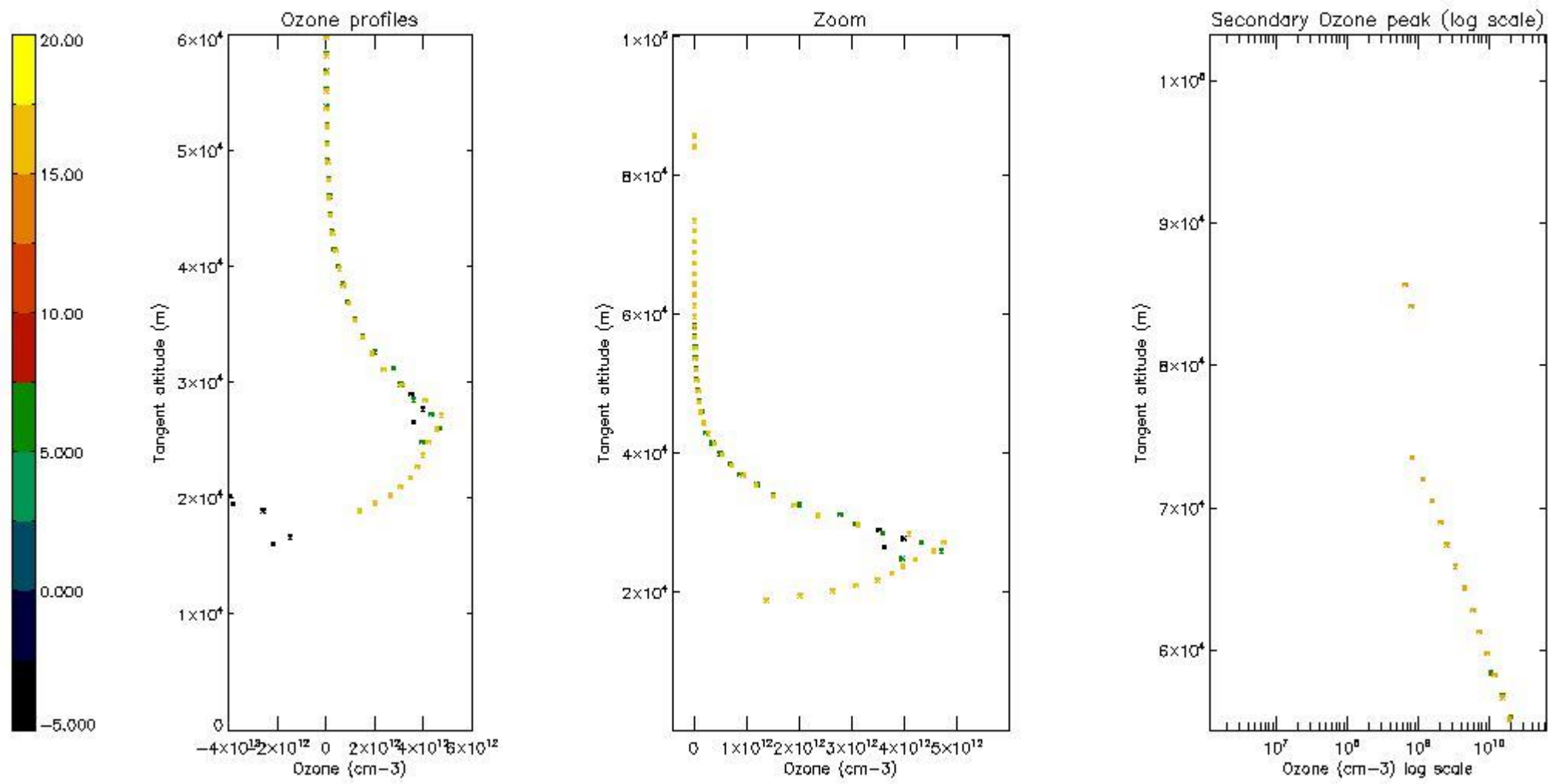
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



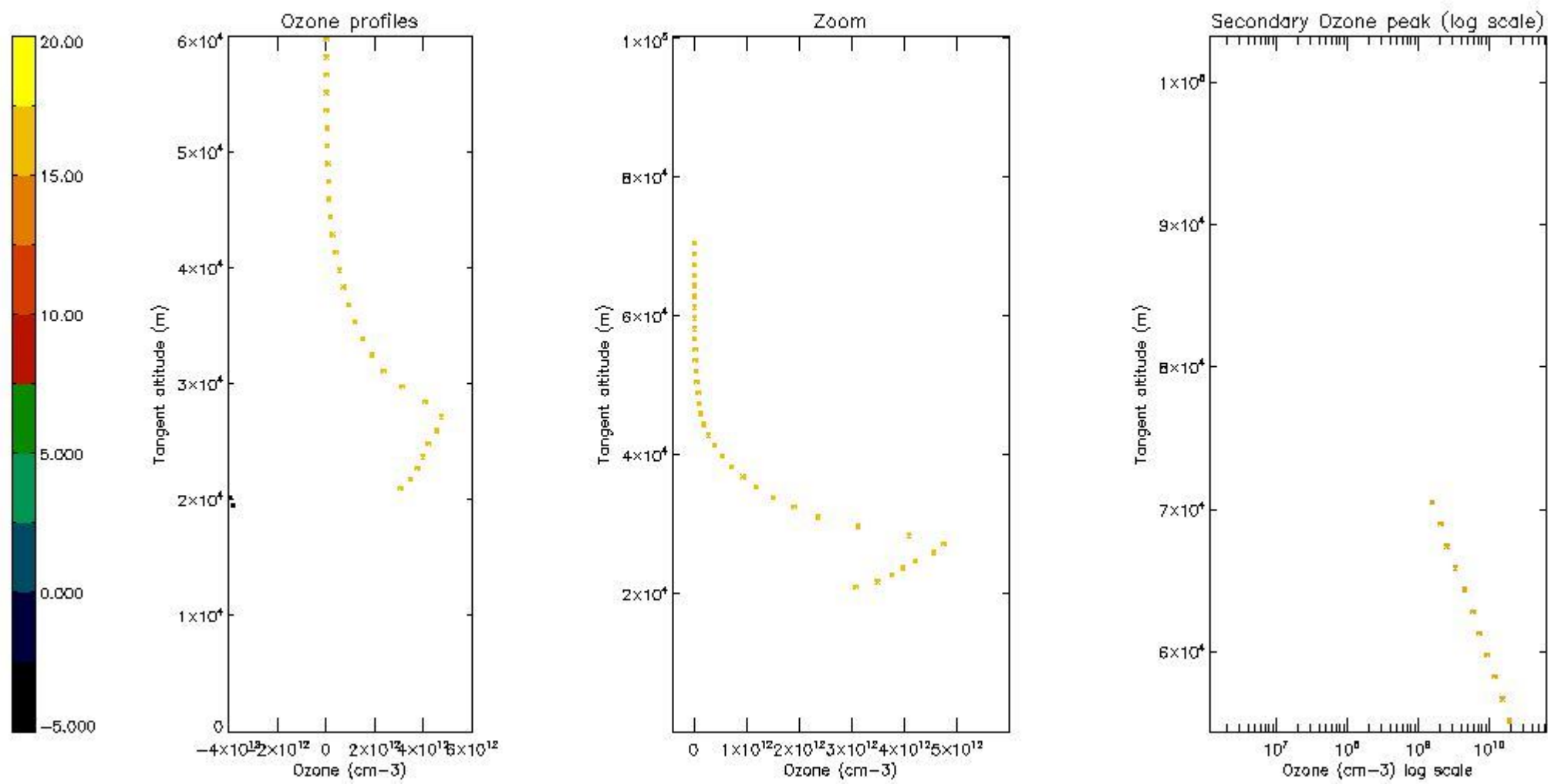
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



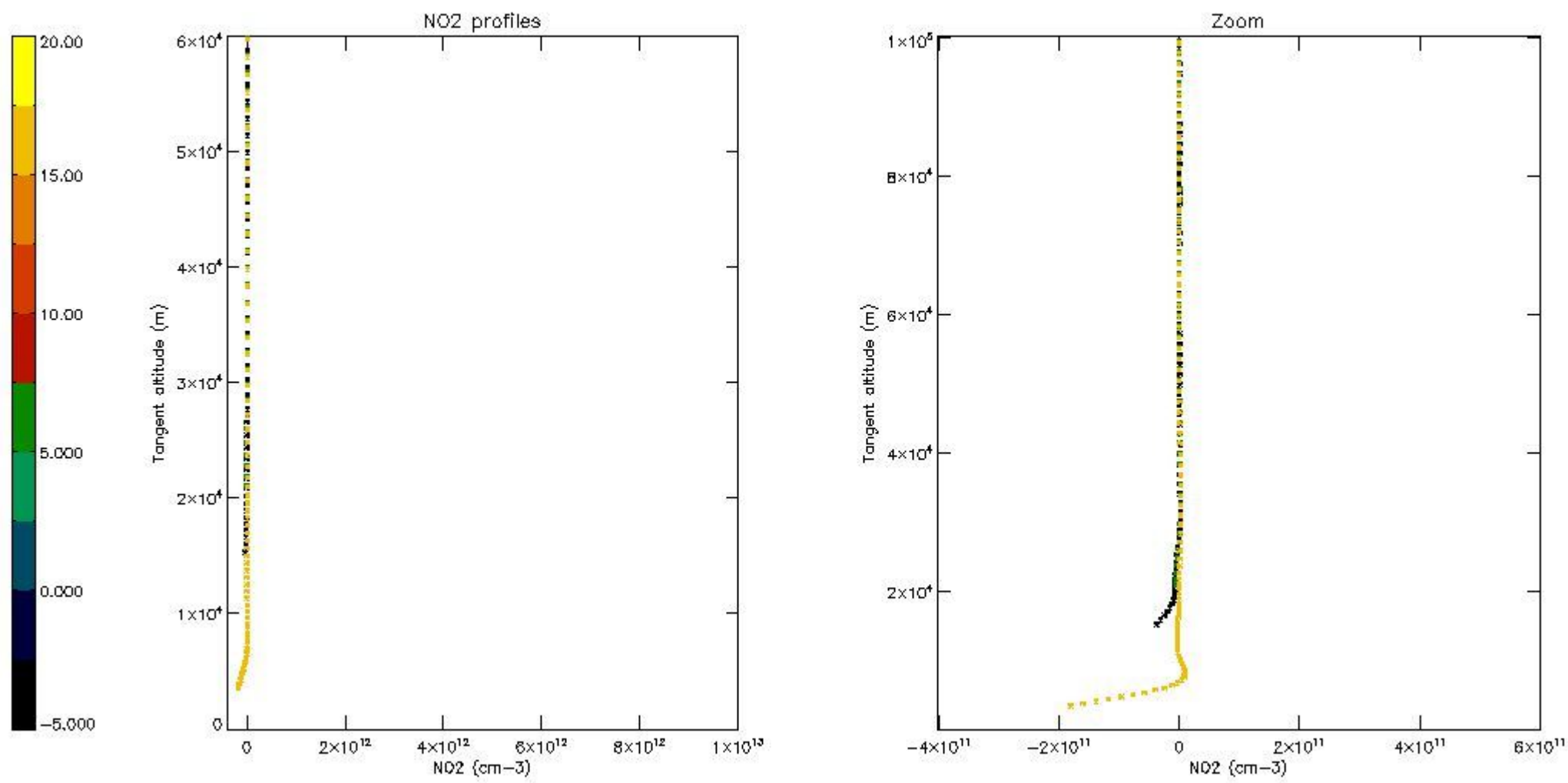
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



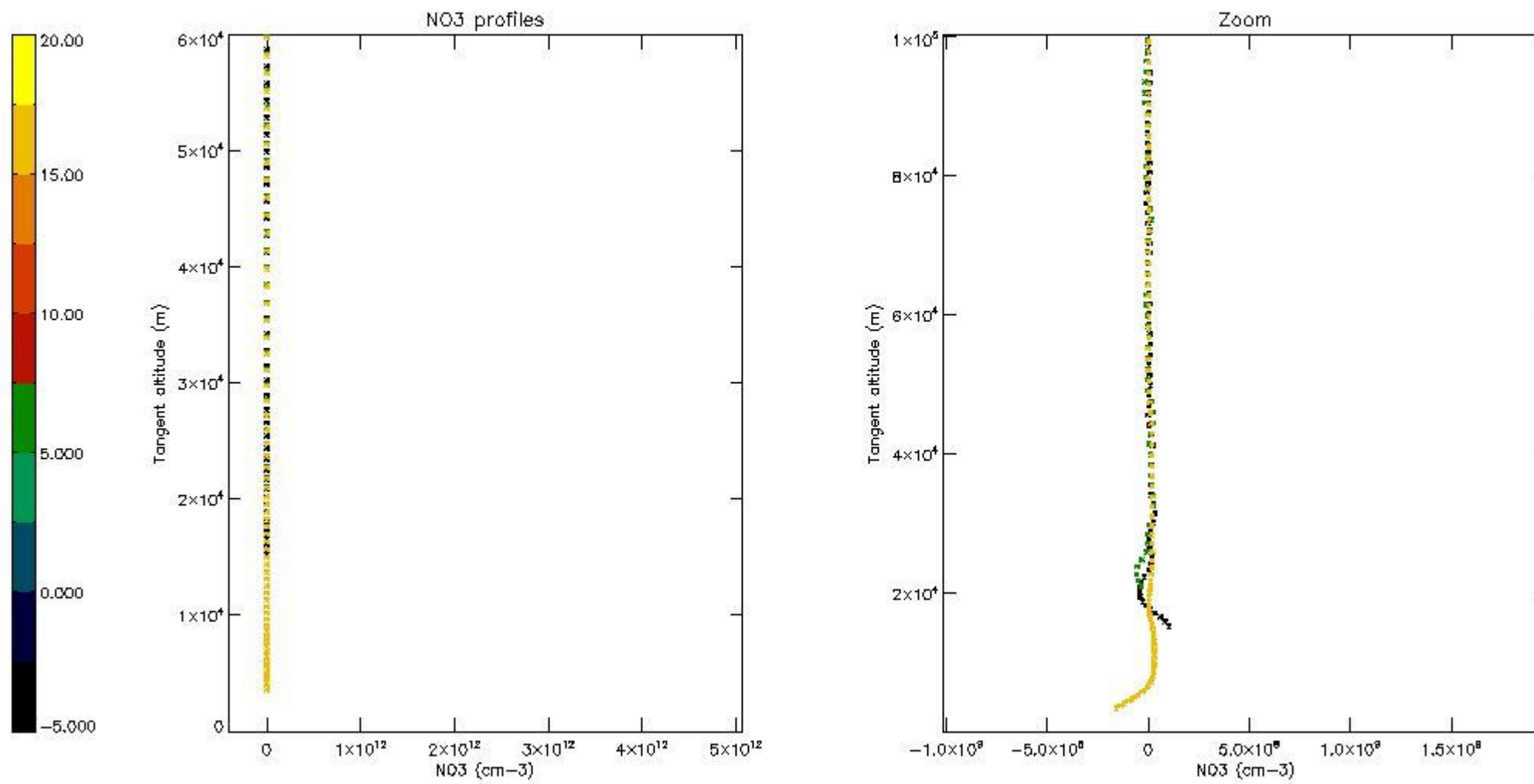
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

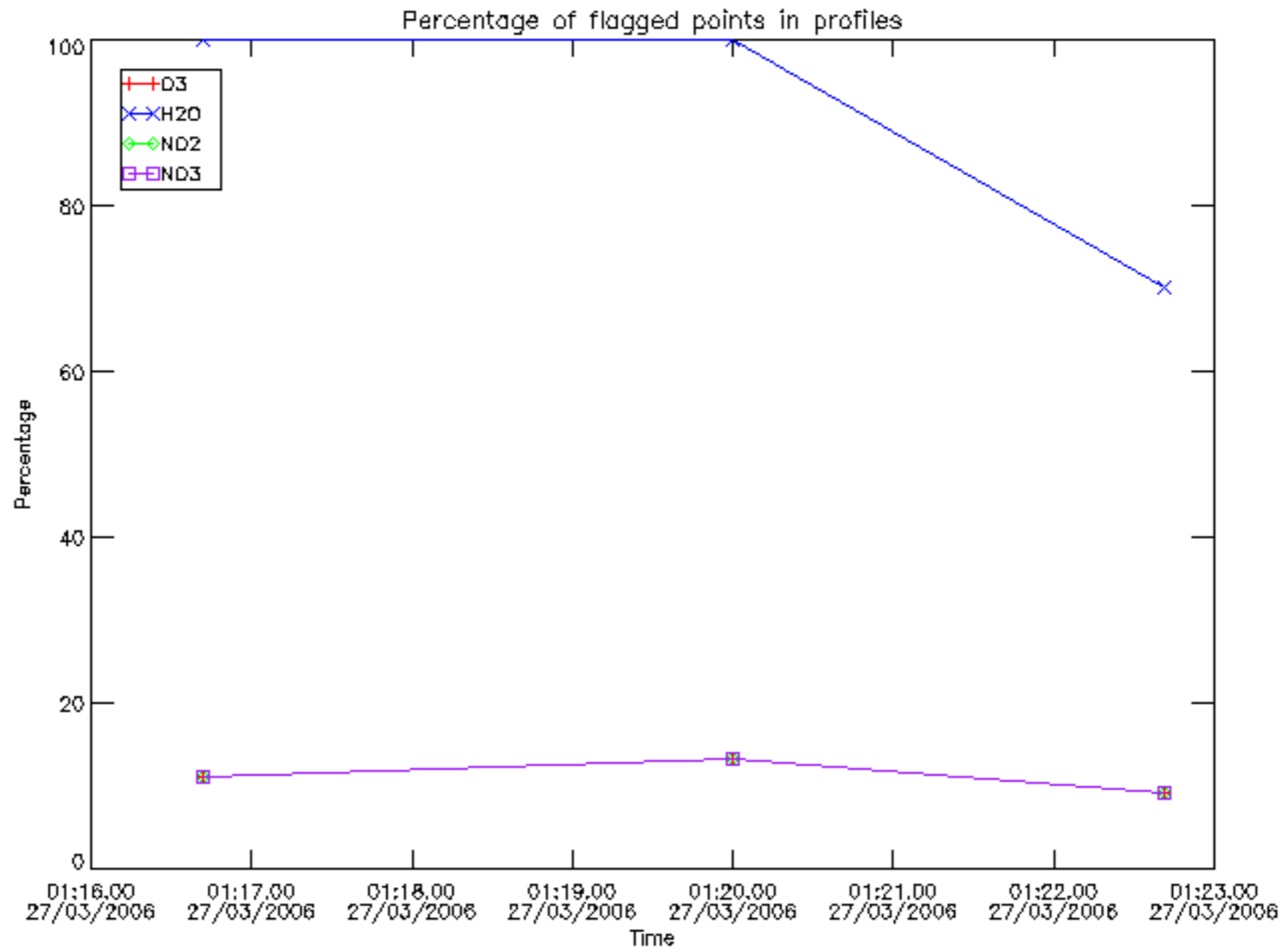
The colorbar represents the latitude.



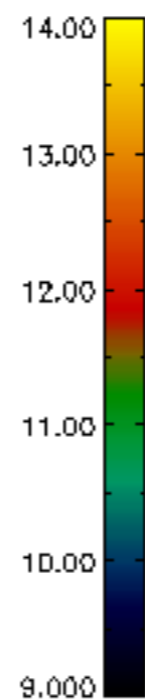
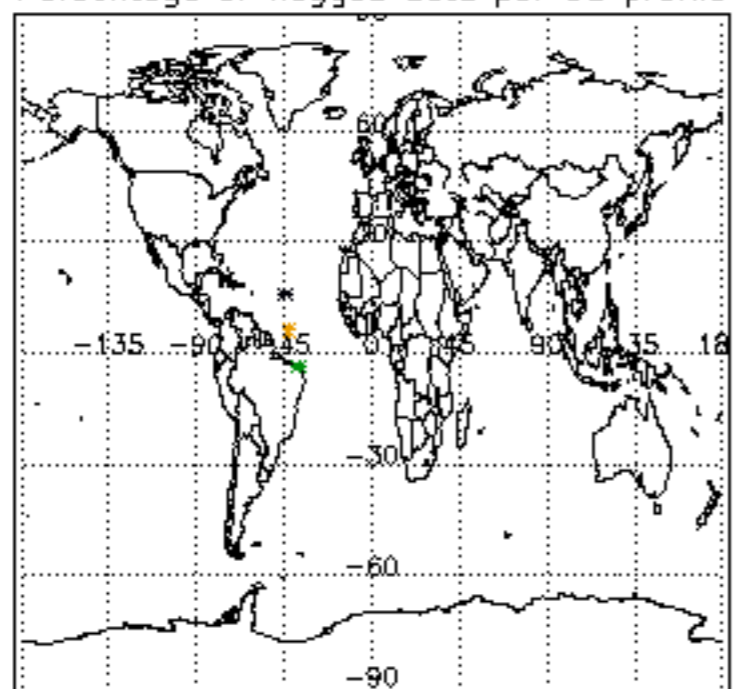
6. Auxiliary Data Files used for the production reported in section 2

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.

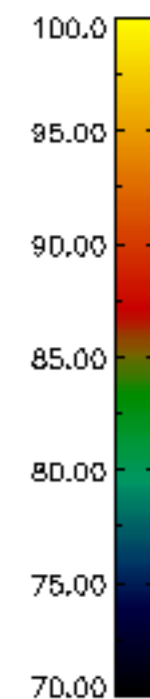
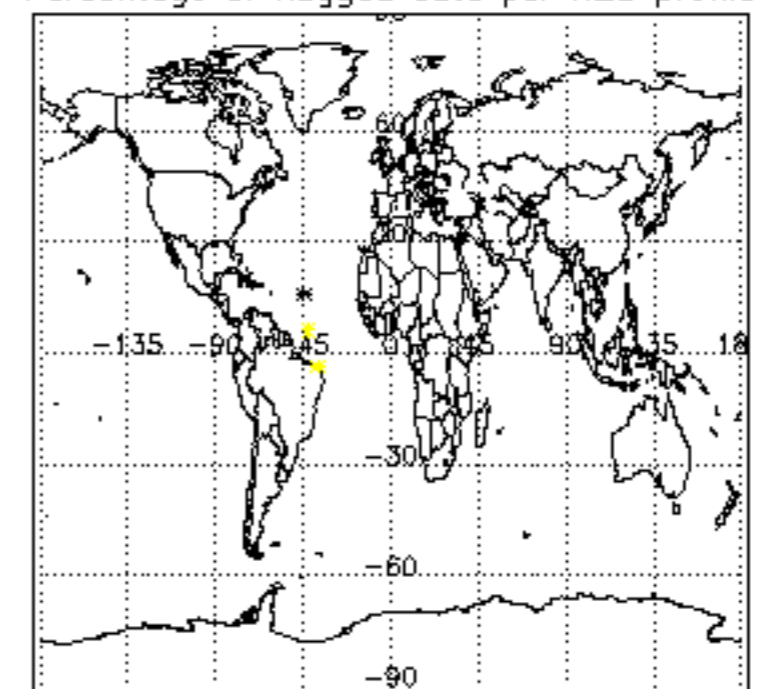
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	27-MAR-2006 00:07:38
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	27-MAR-2006 00:07:38
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	27-MAR-2006 00:07:38



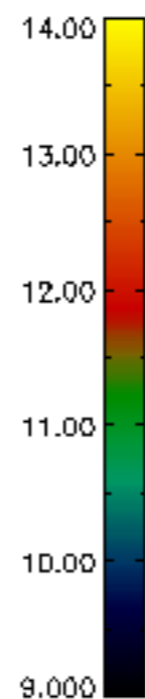
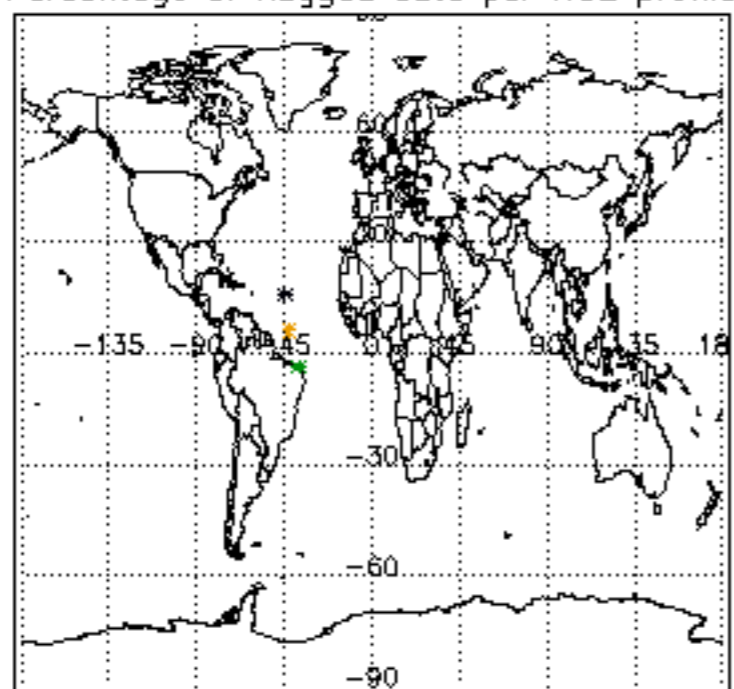
Percentage of flagged data per D3 profile



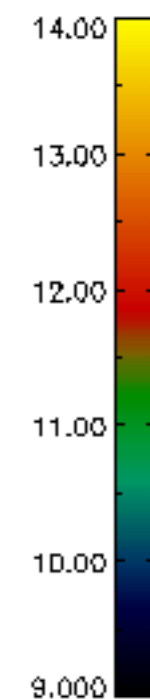
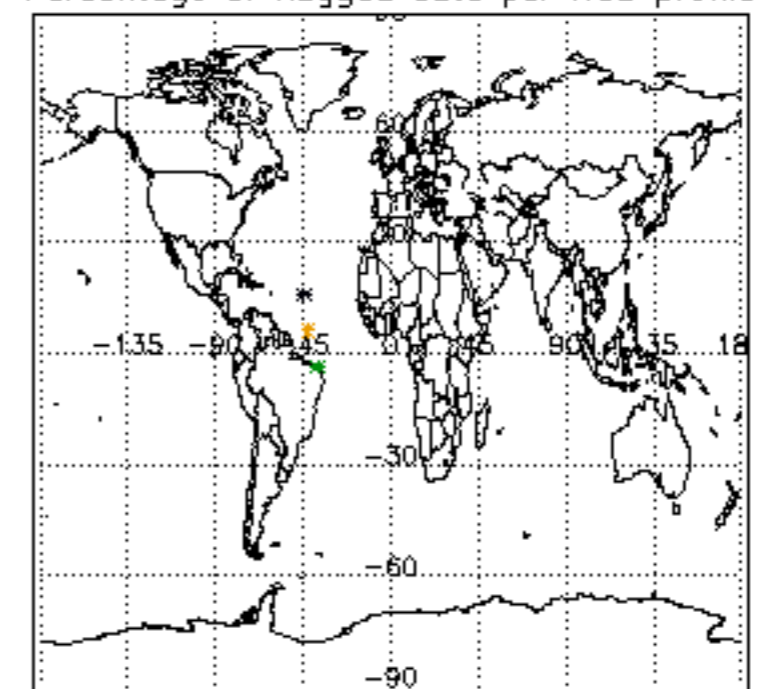
Percentage of flagged data per H2O profile

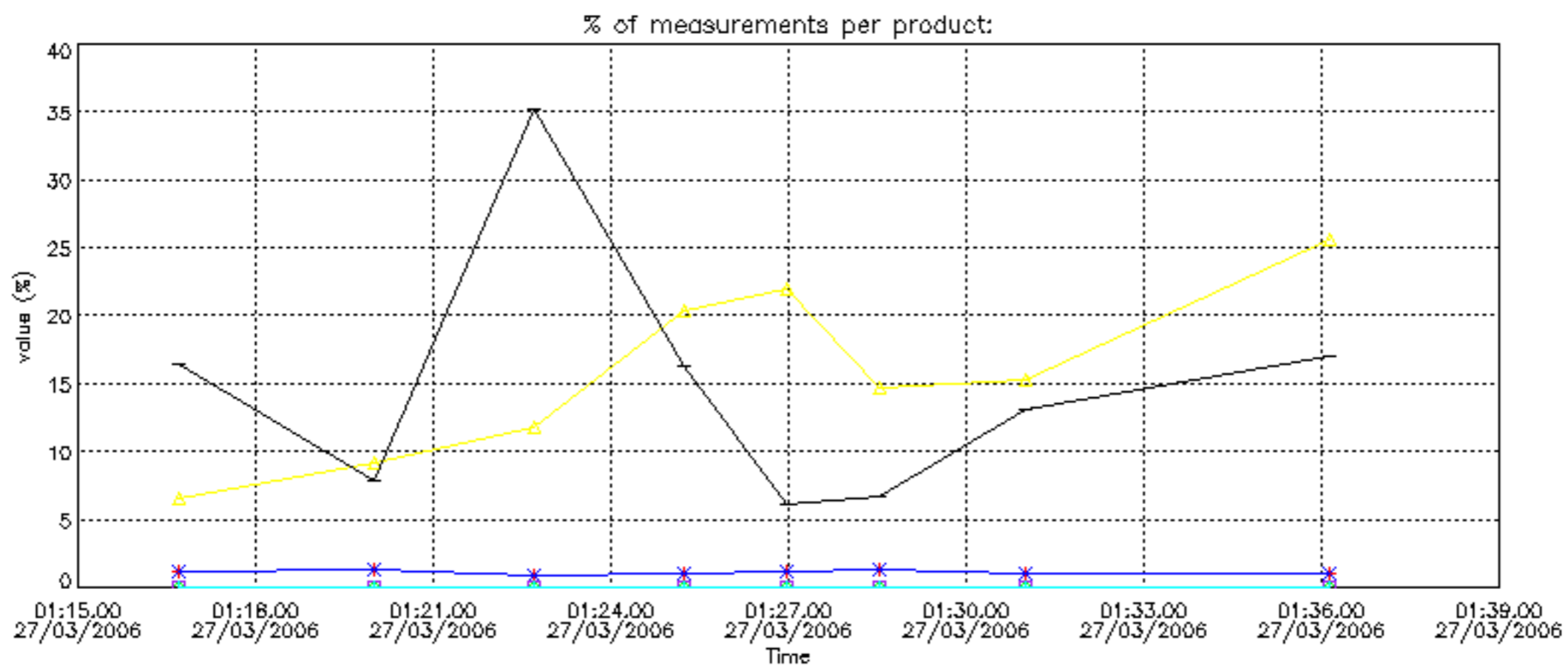


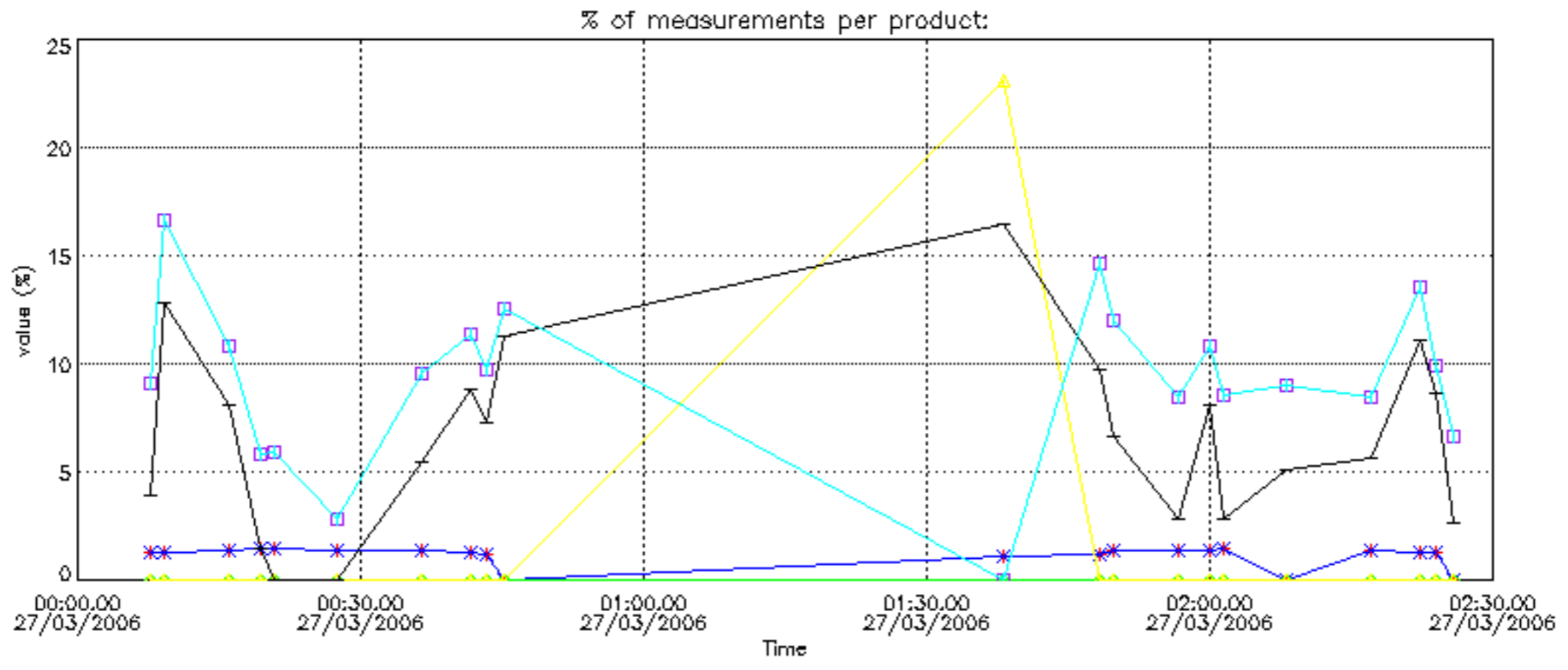
Percentage of flagged data per NO2 profile



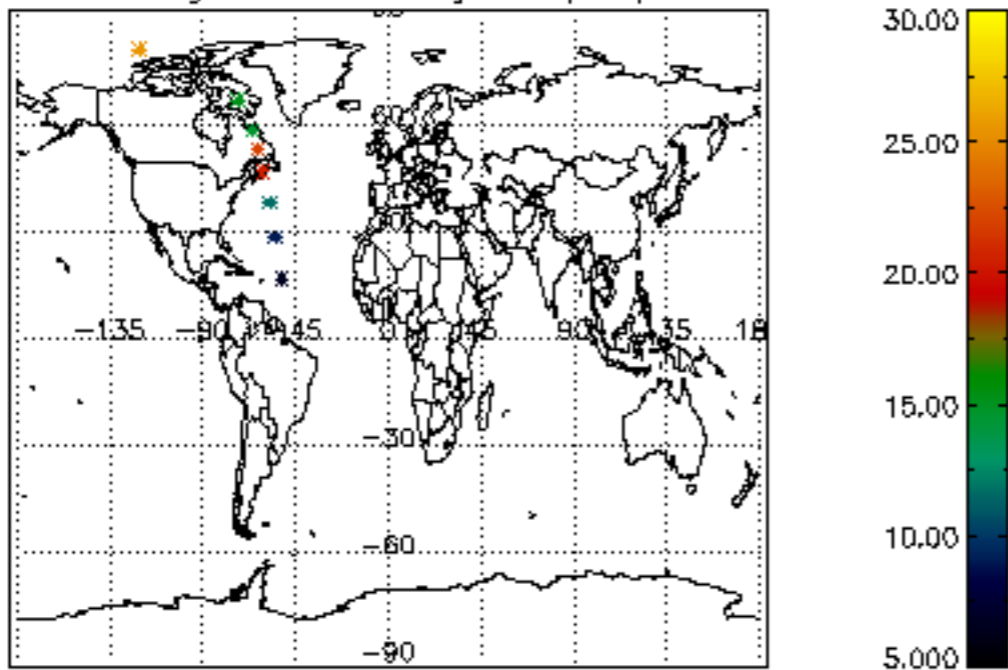
Percentage of flagged data per NO3 profile



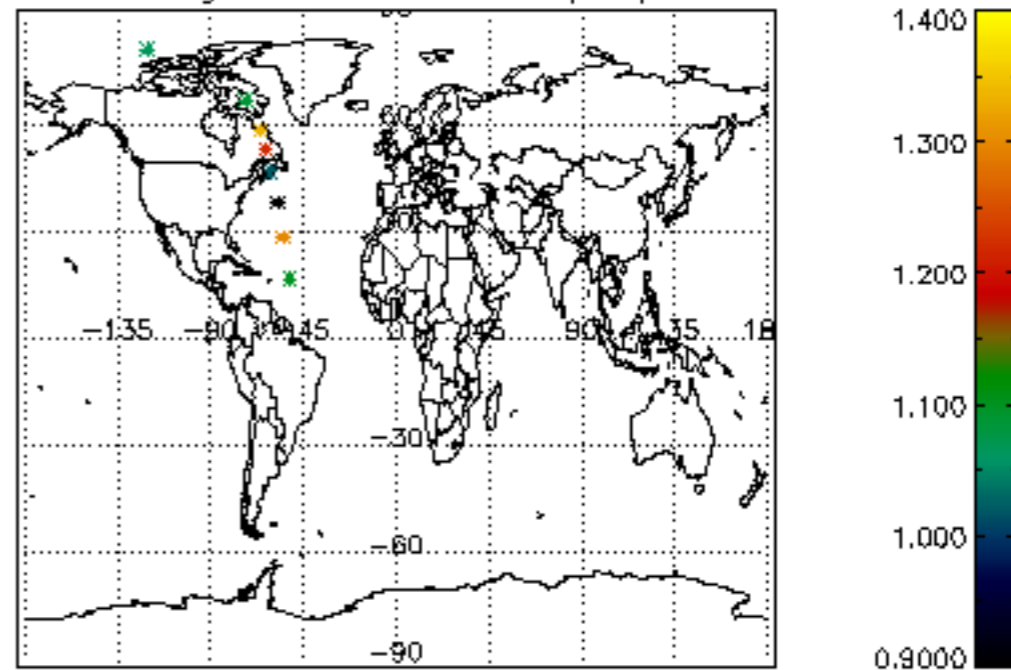




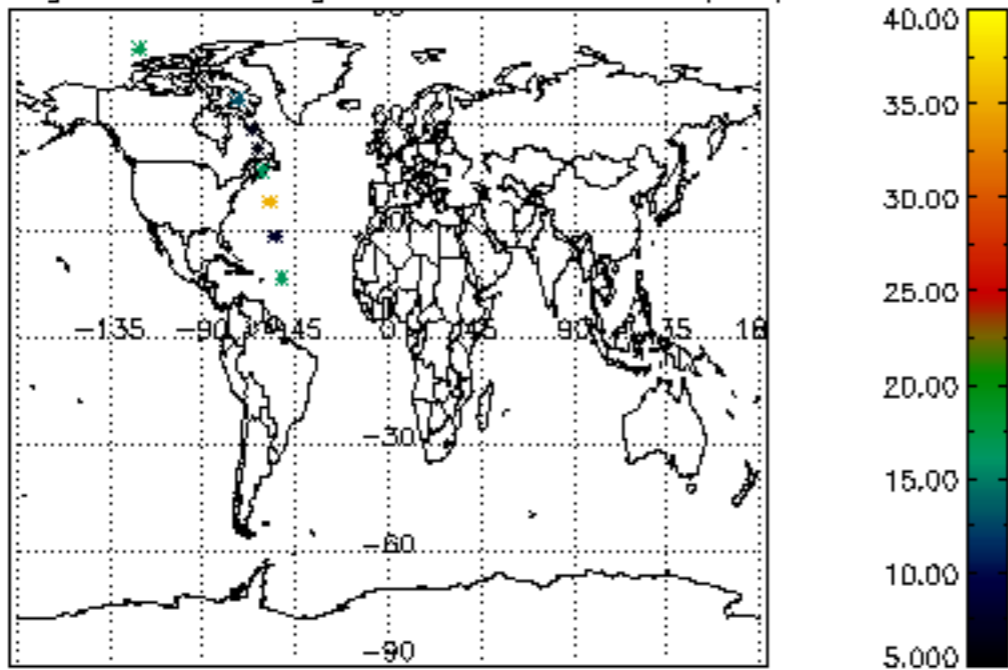
Percentage of cosmic ray hits per profile



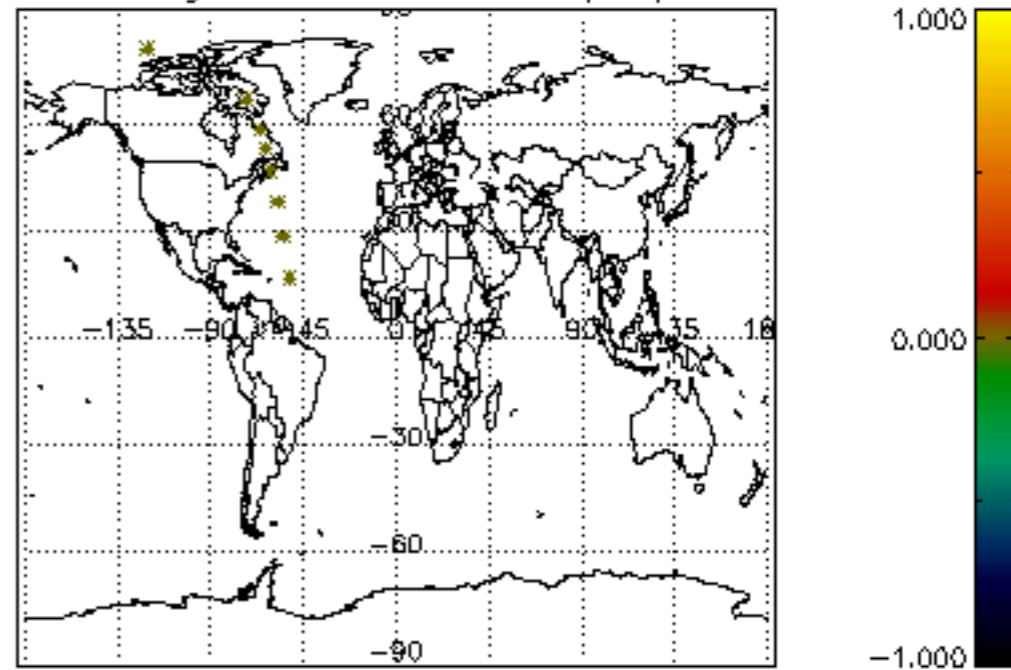
Percentage of datation errors per profile



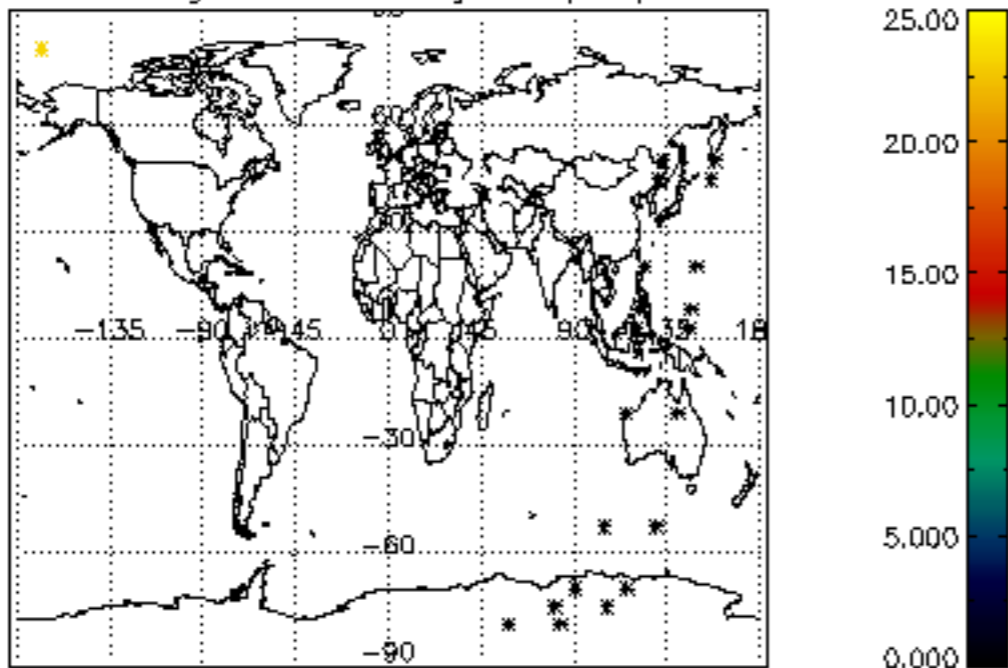
Percentage of star falling outside central band per profile



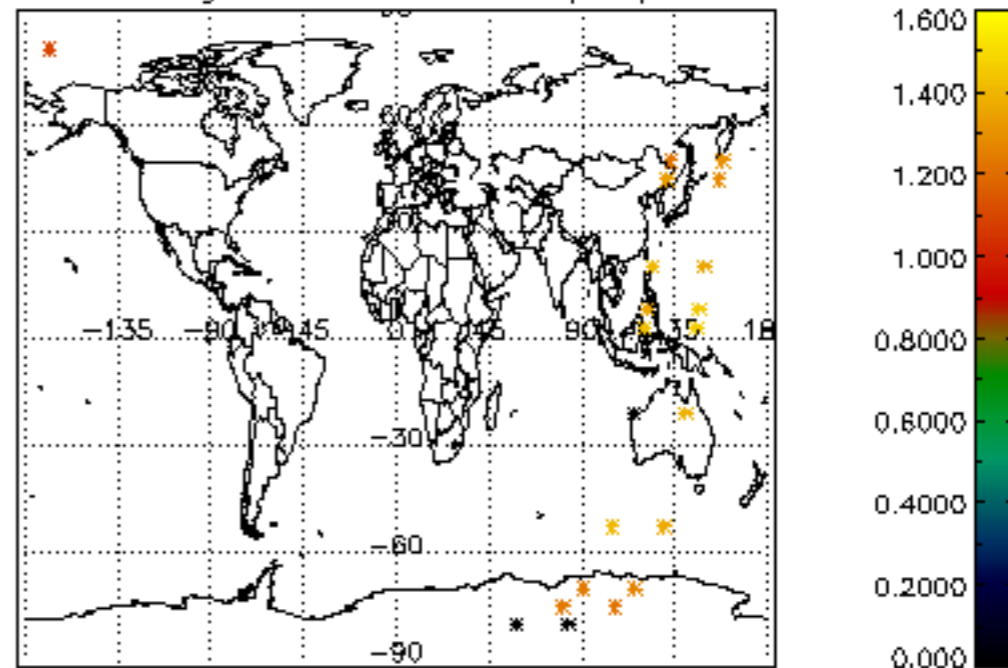
Percentage of saturation errors per profile



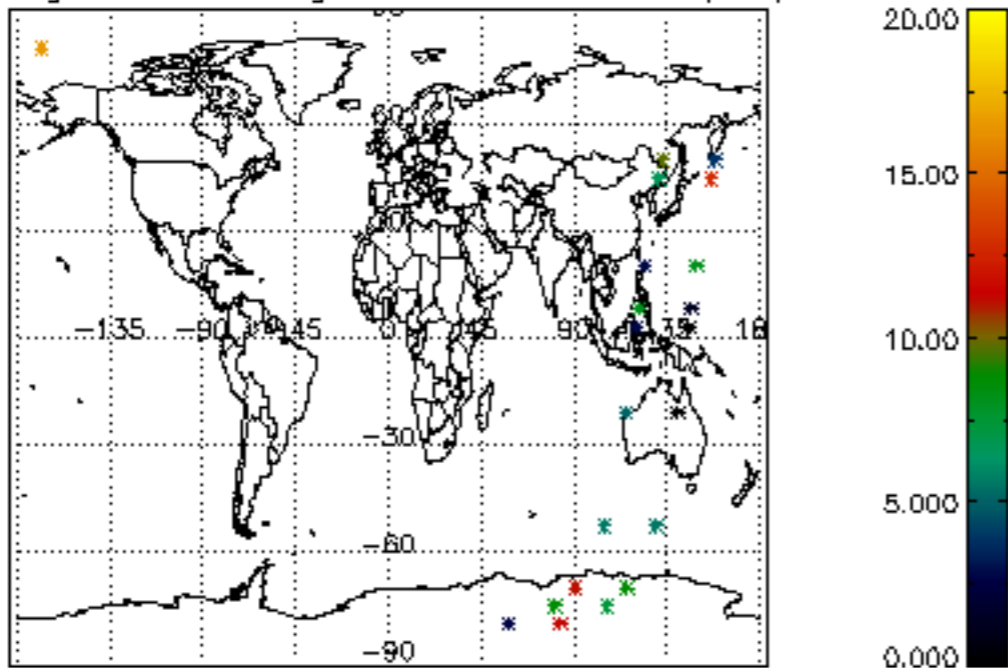
Percentage of cosmic ray hits per profile



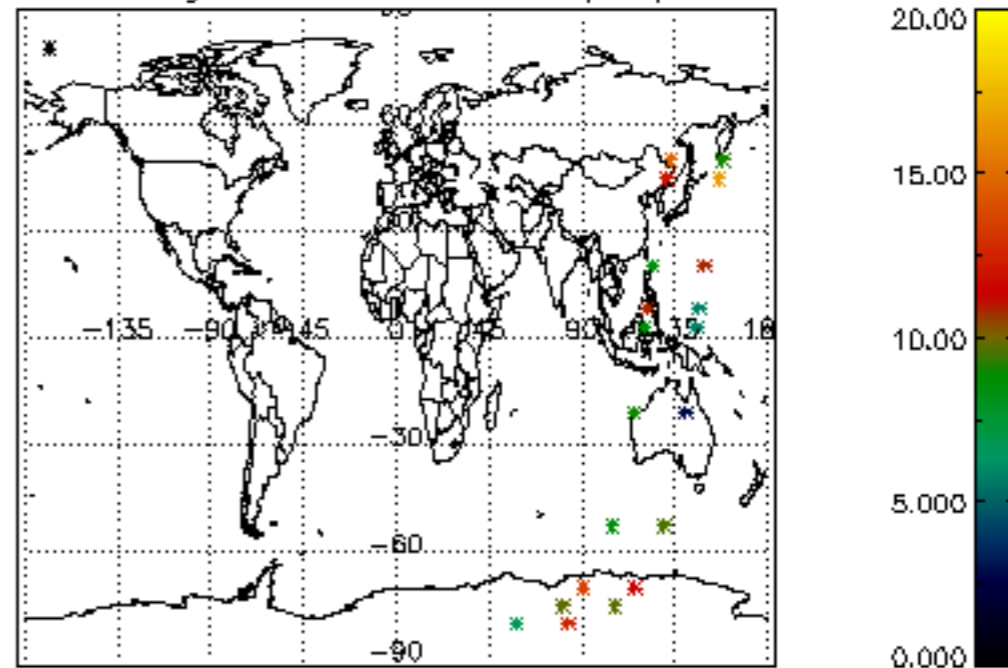
Percentage of datation errors per profile

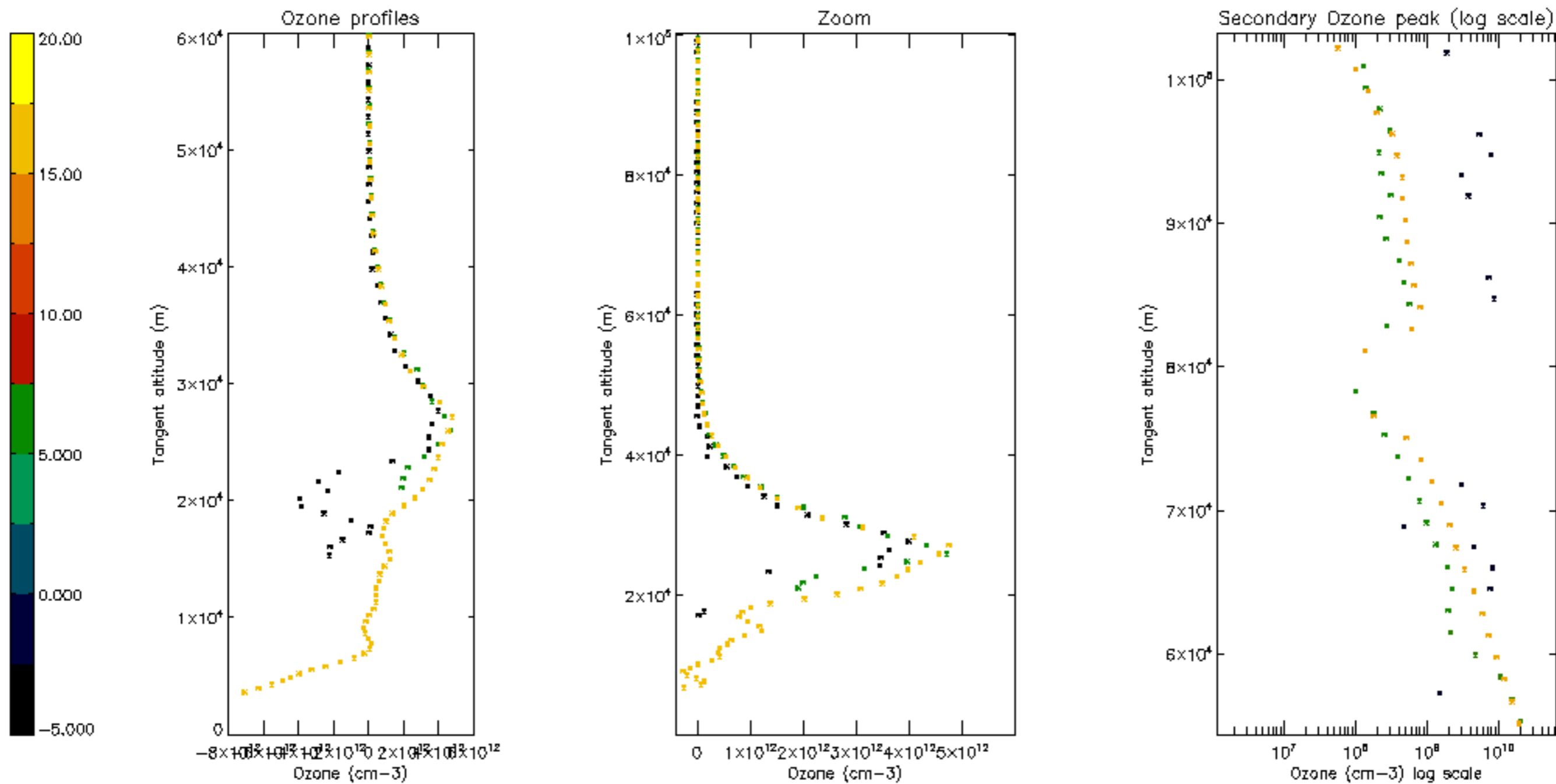


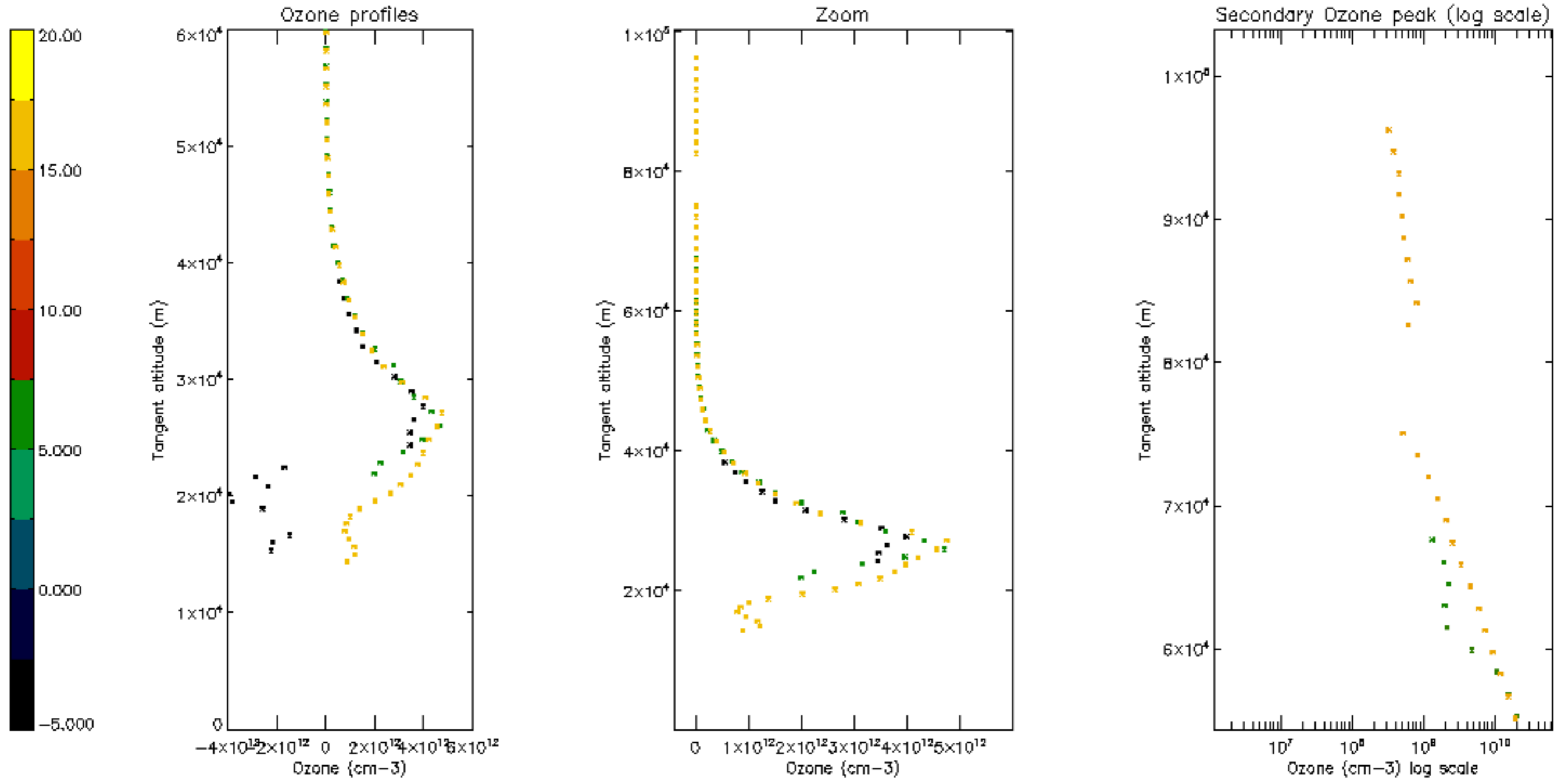
Percentage of star falling outside central band per profile

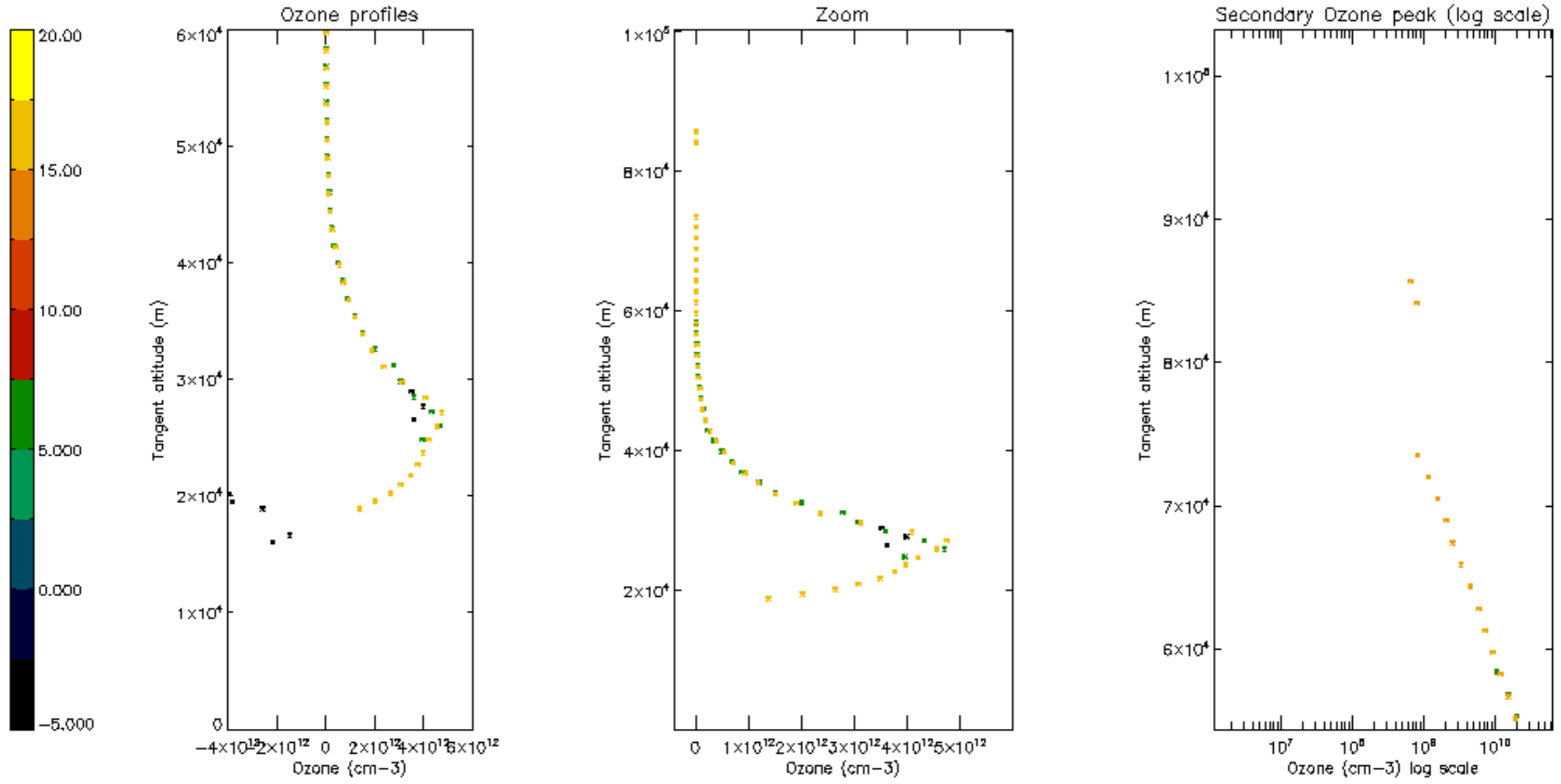


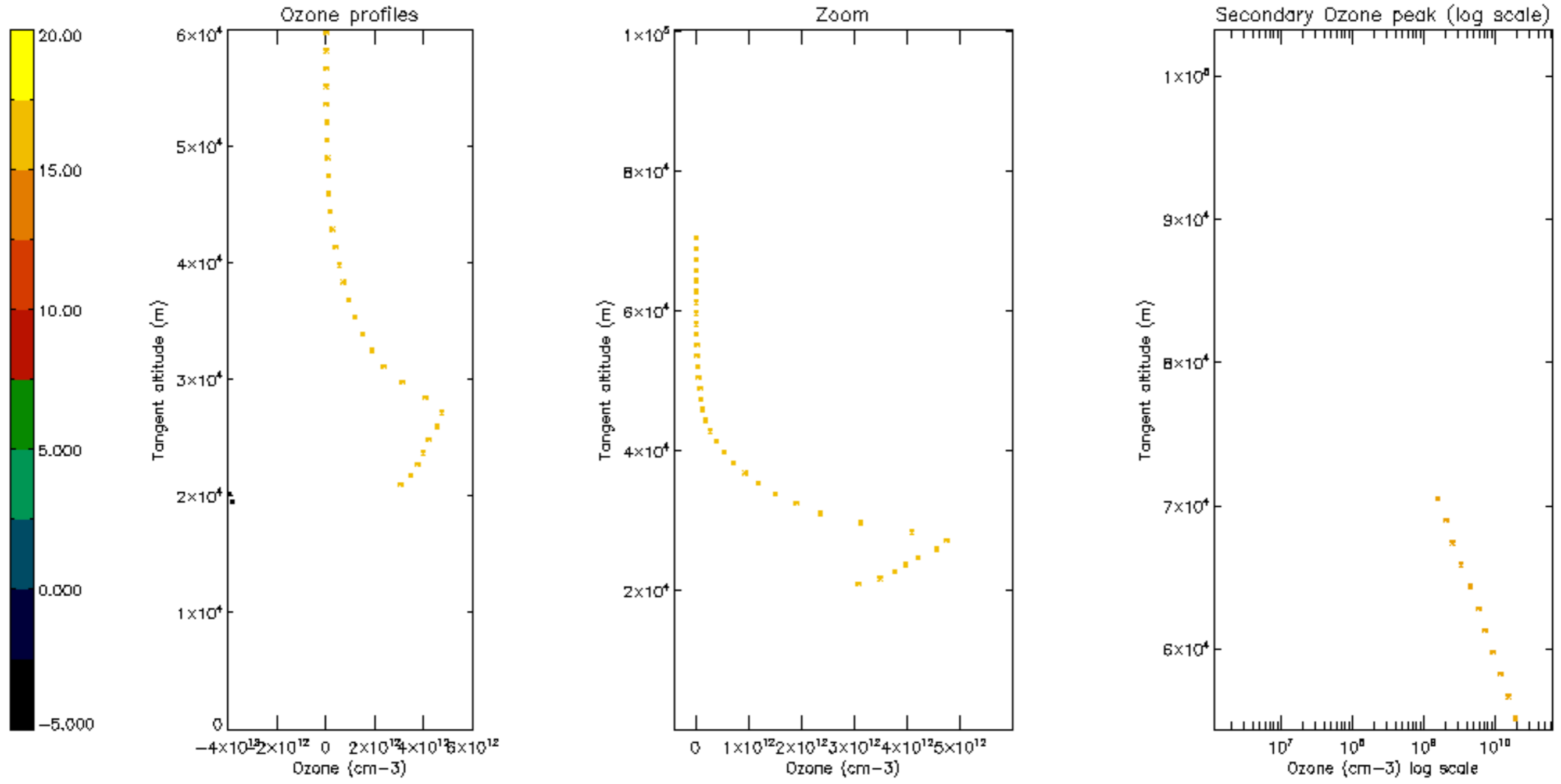
Percentage of saturation errors per profile

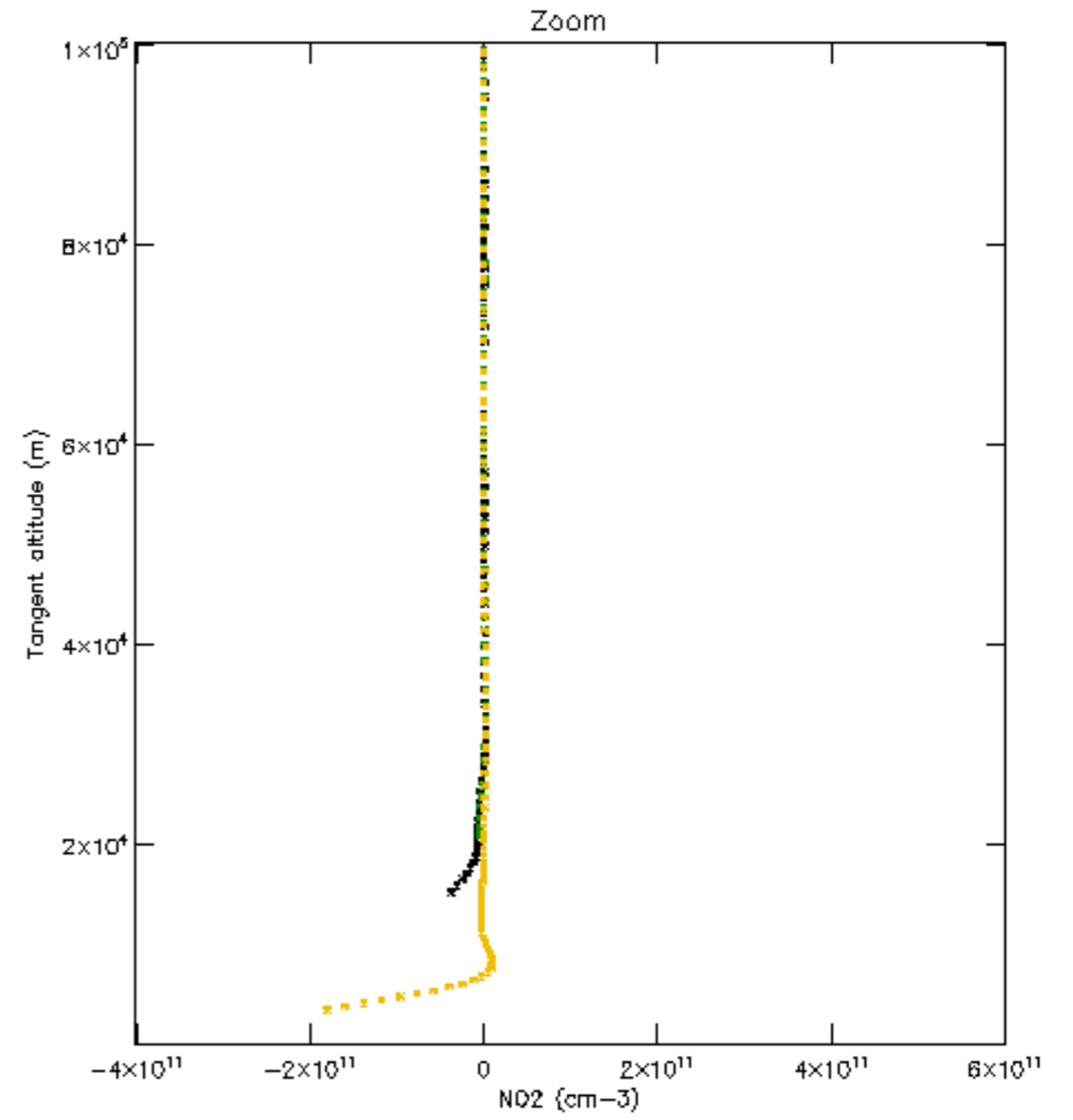
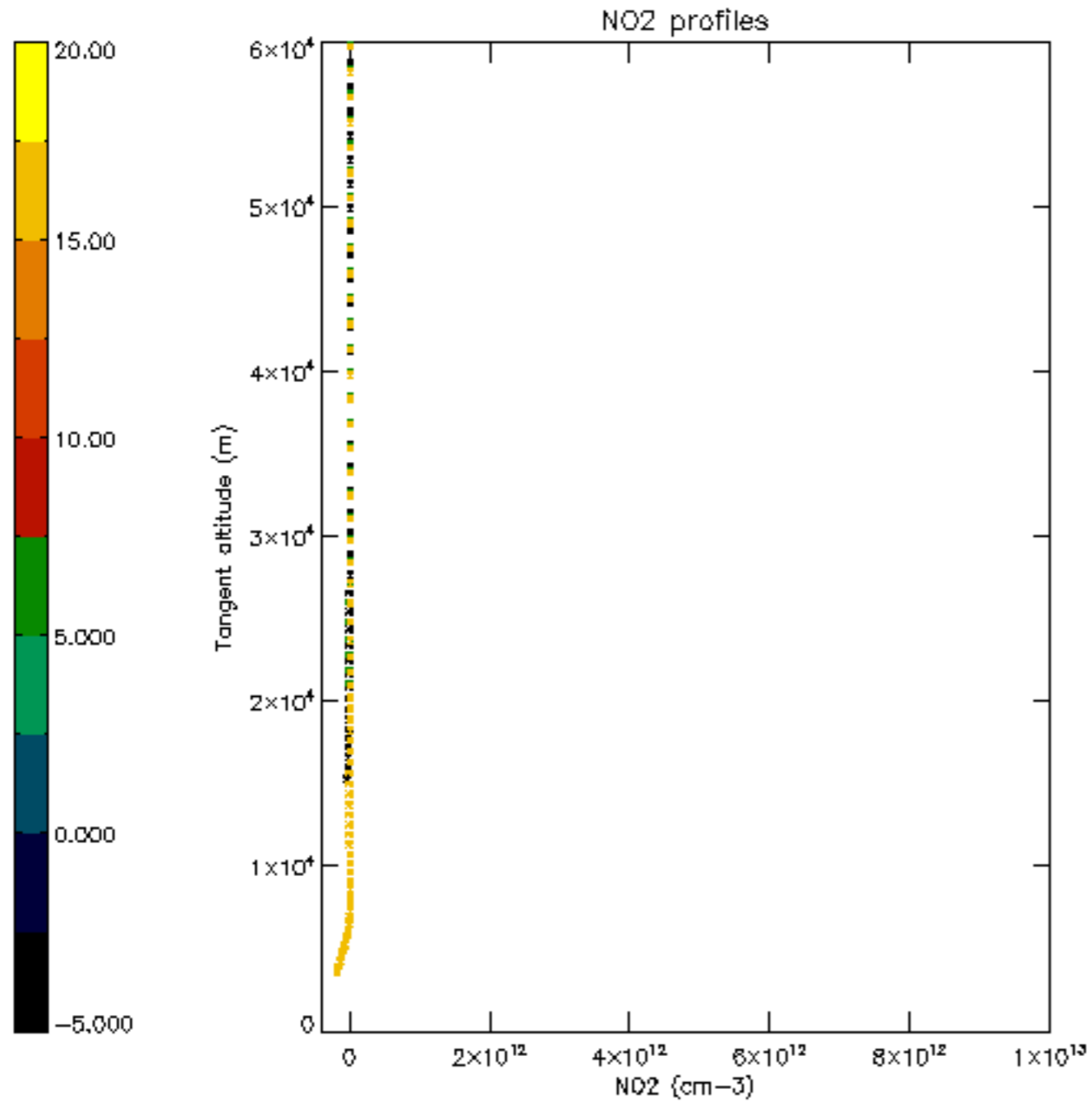


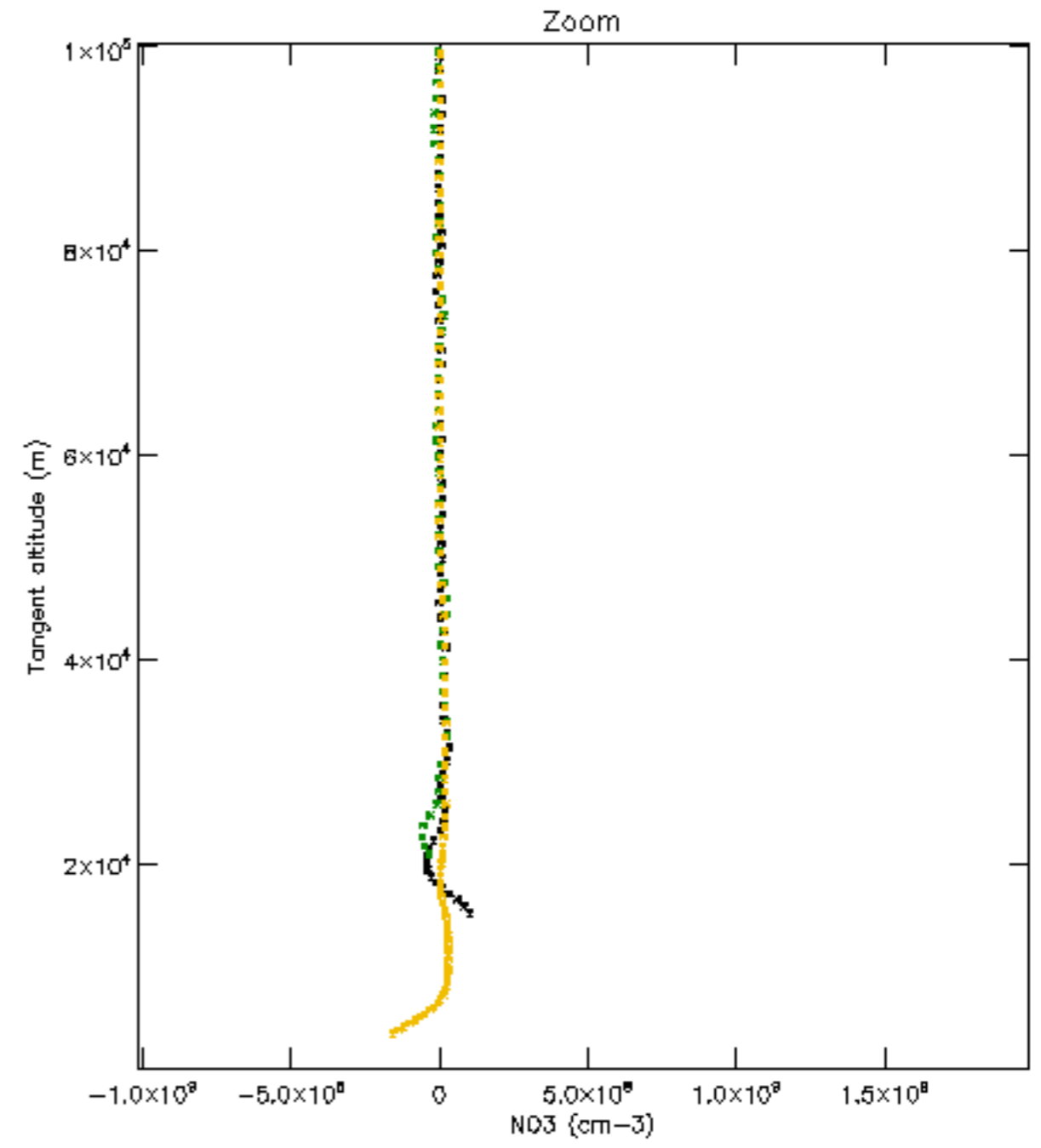
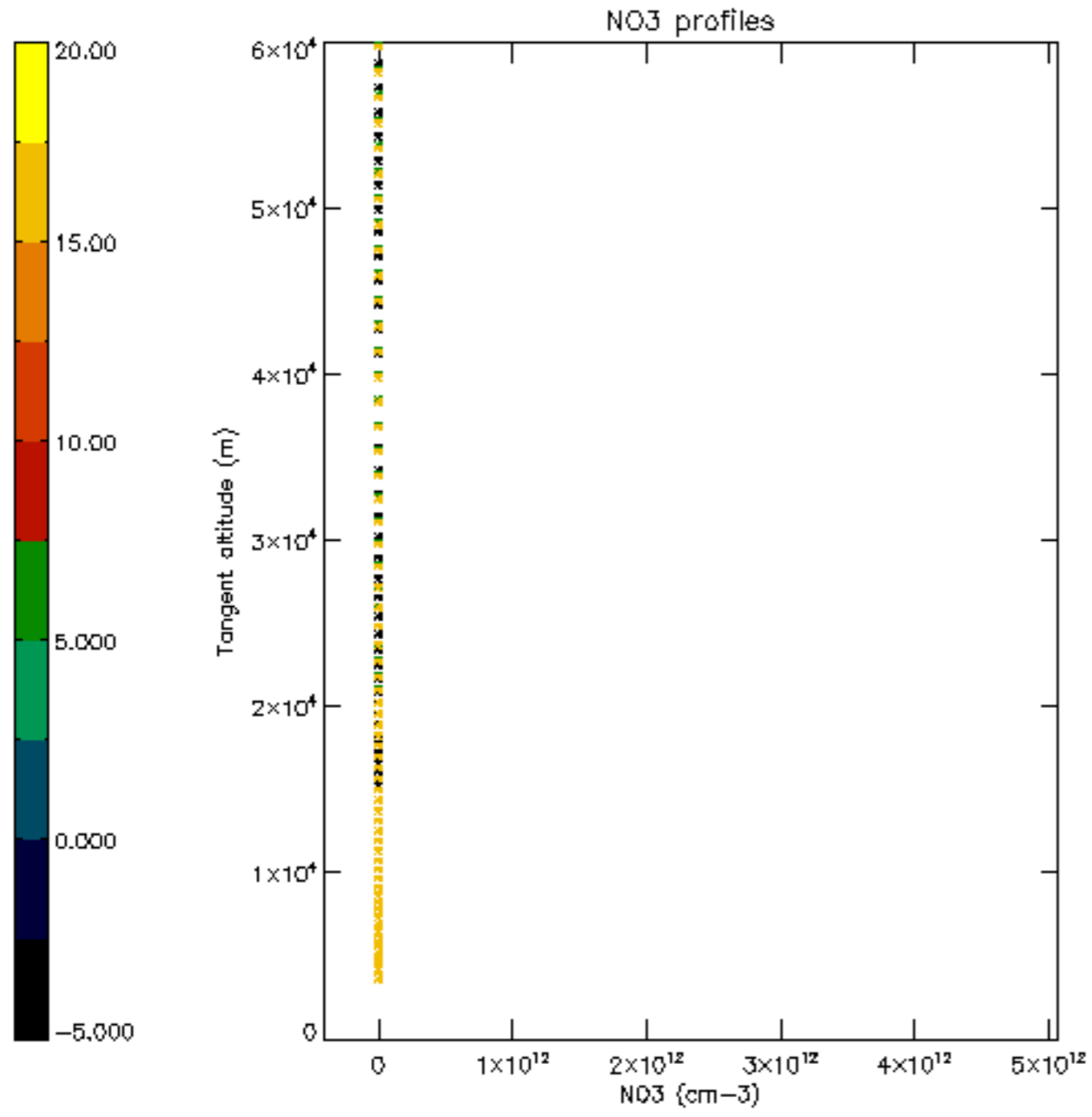


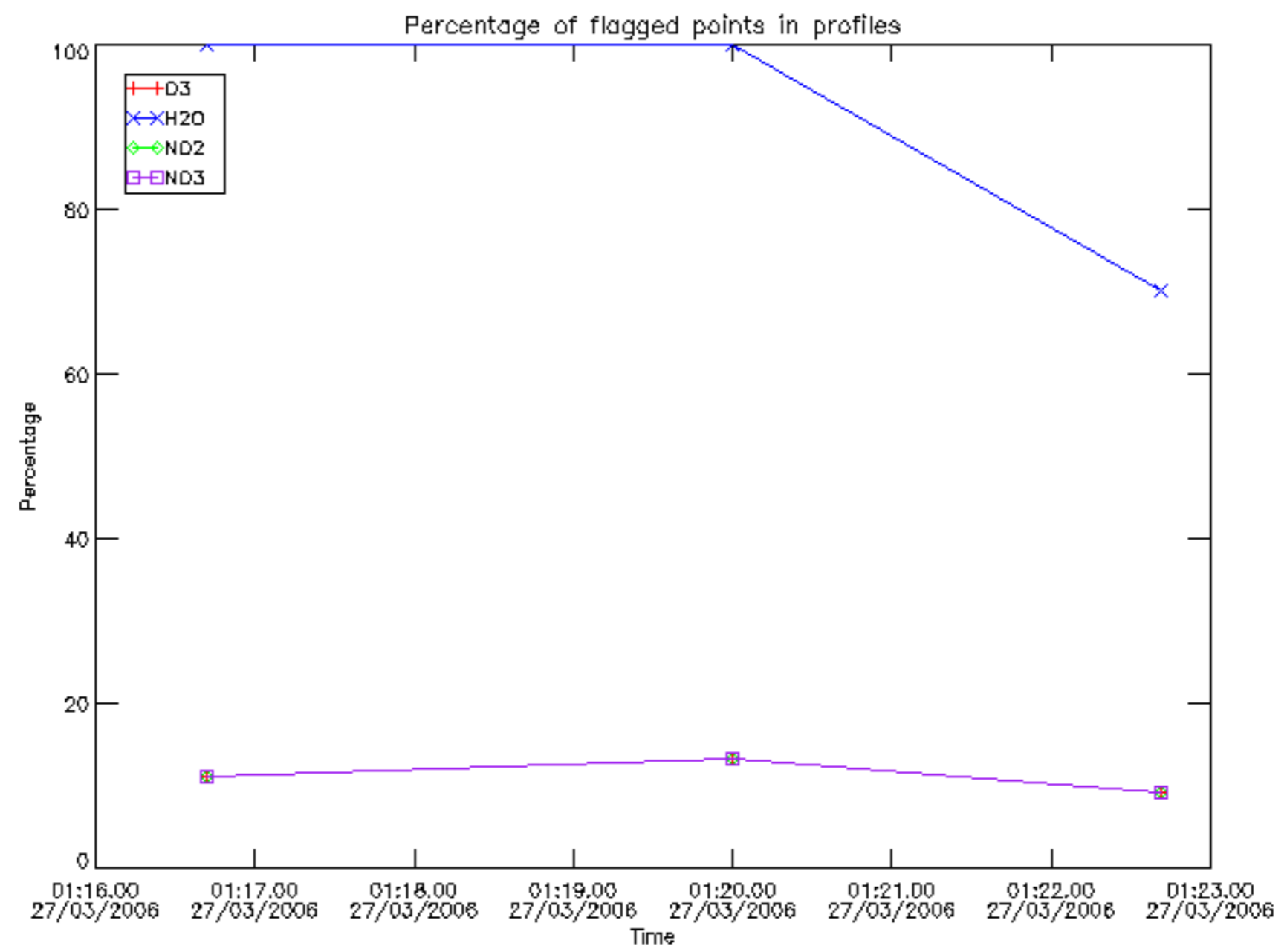




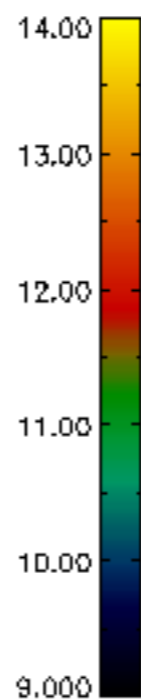
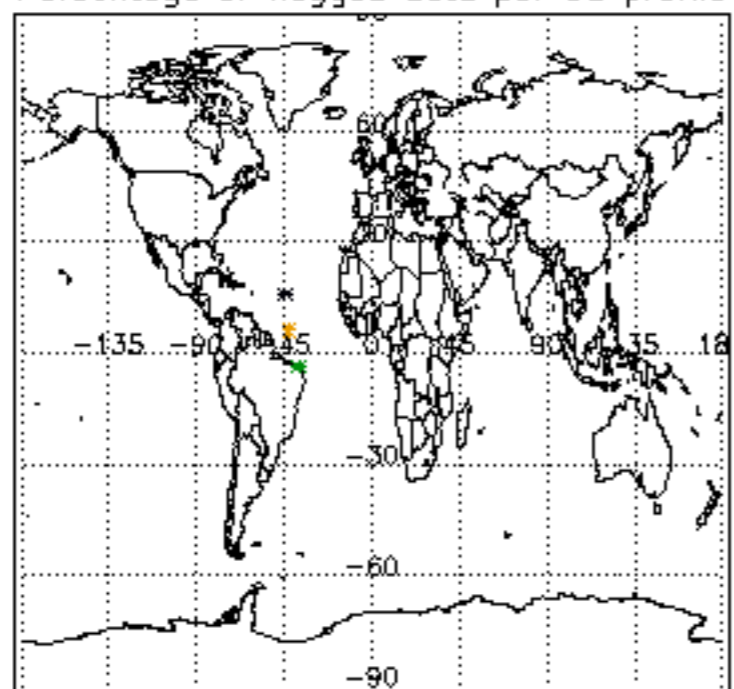




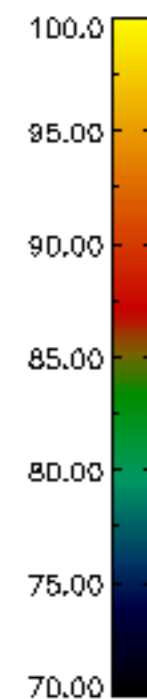
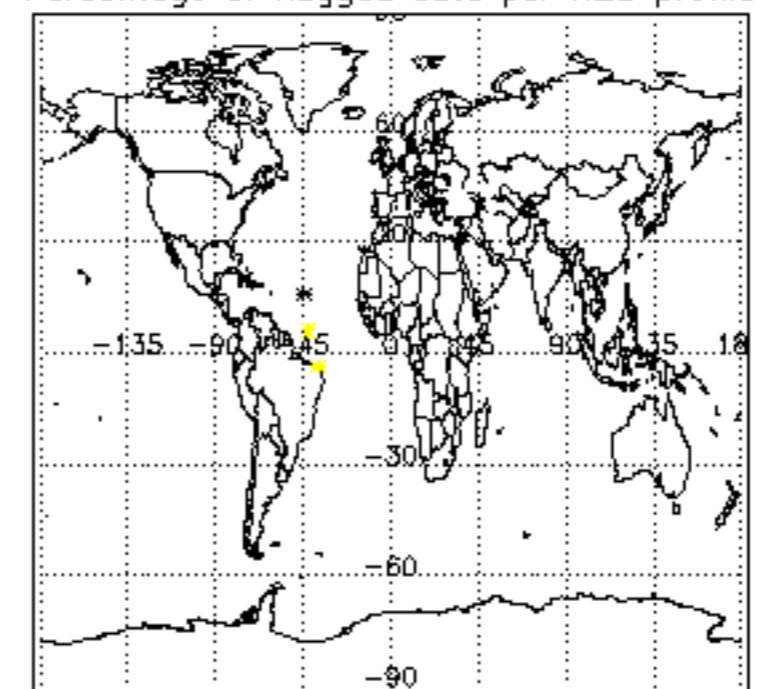




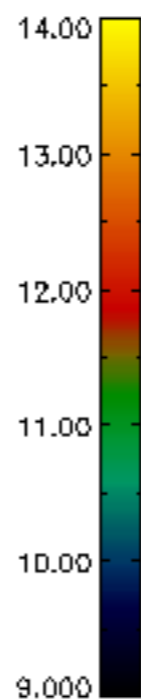
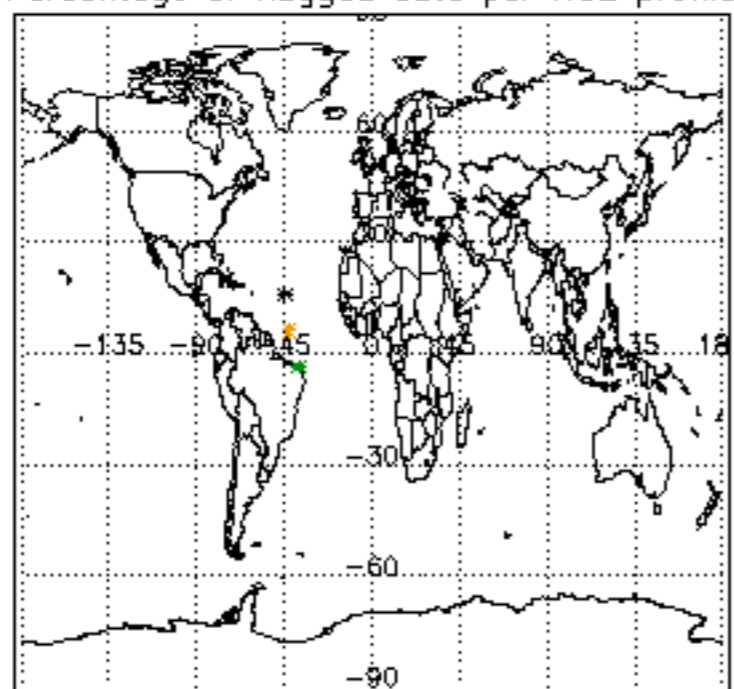
Percentage of flagged data per D3 profile



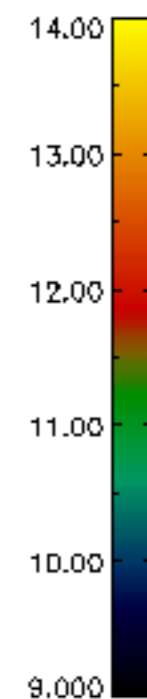
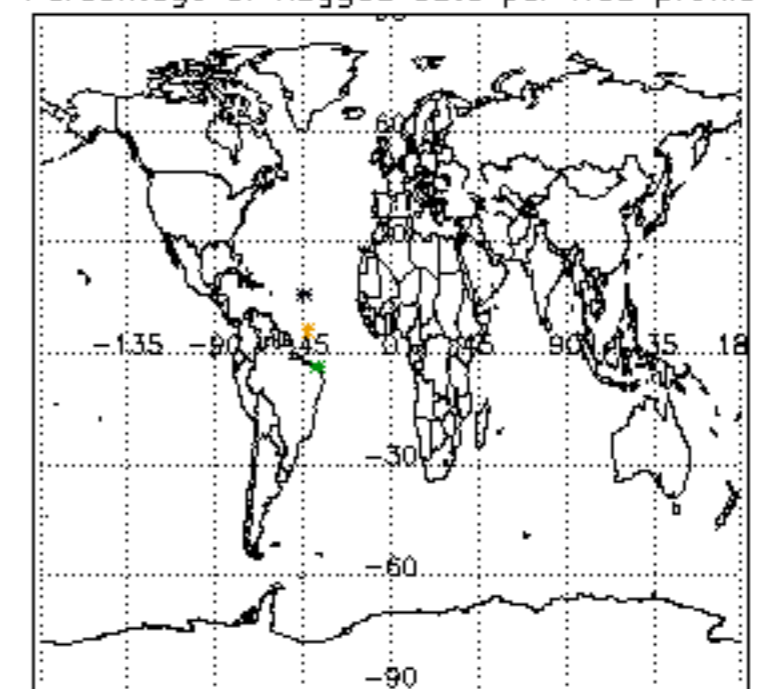
Percentage of flagged data per H2O profile

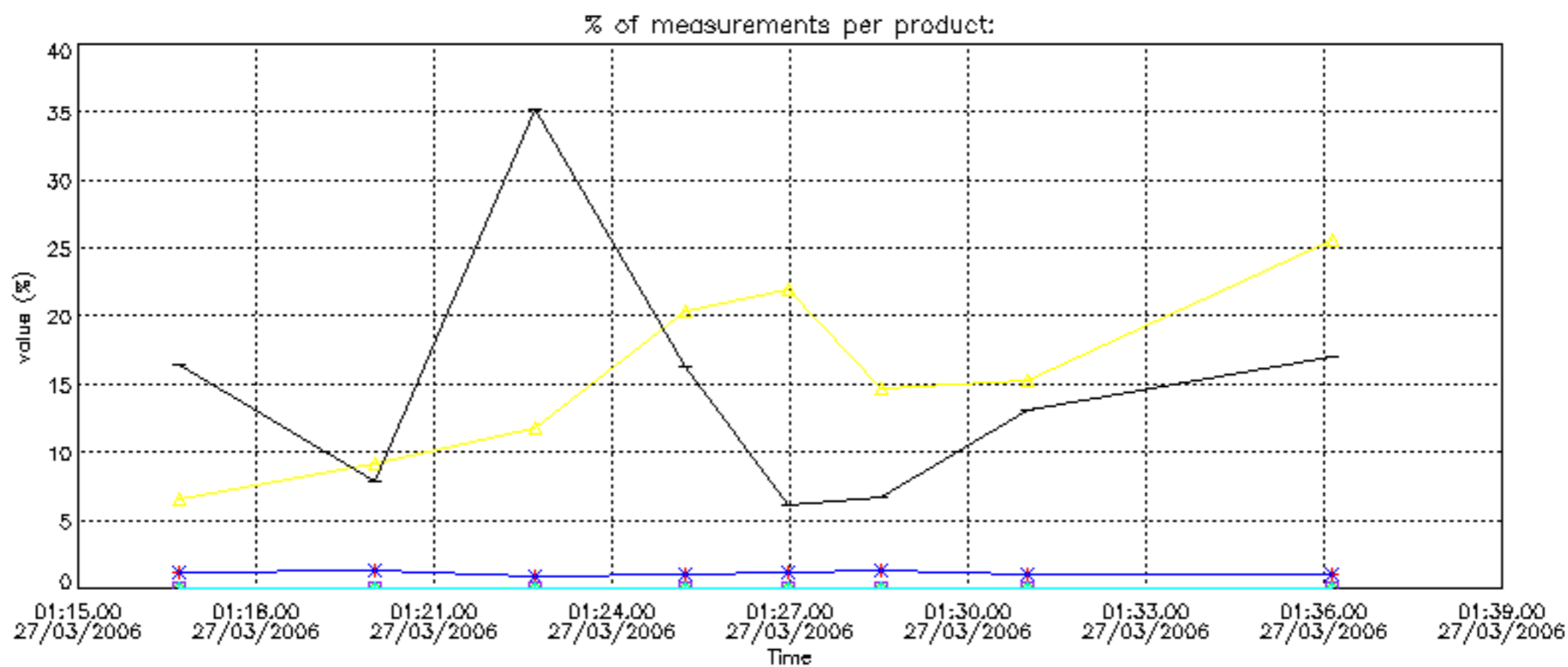


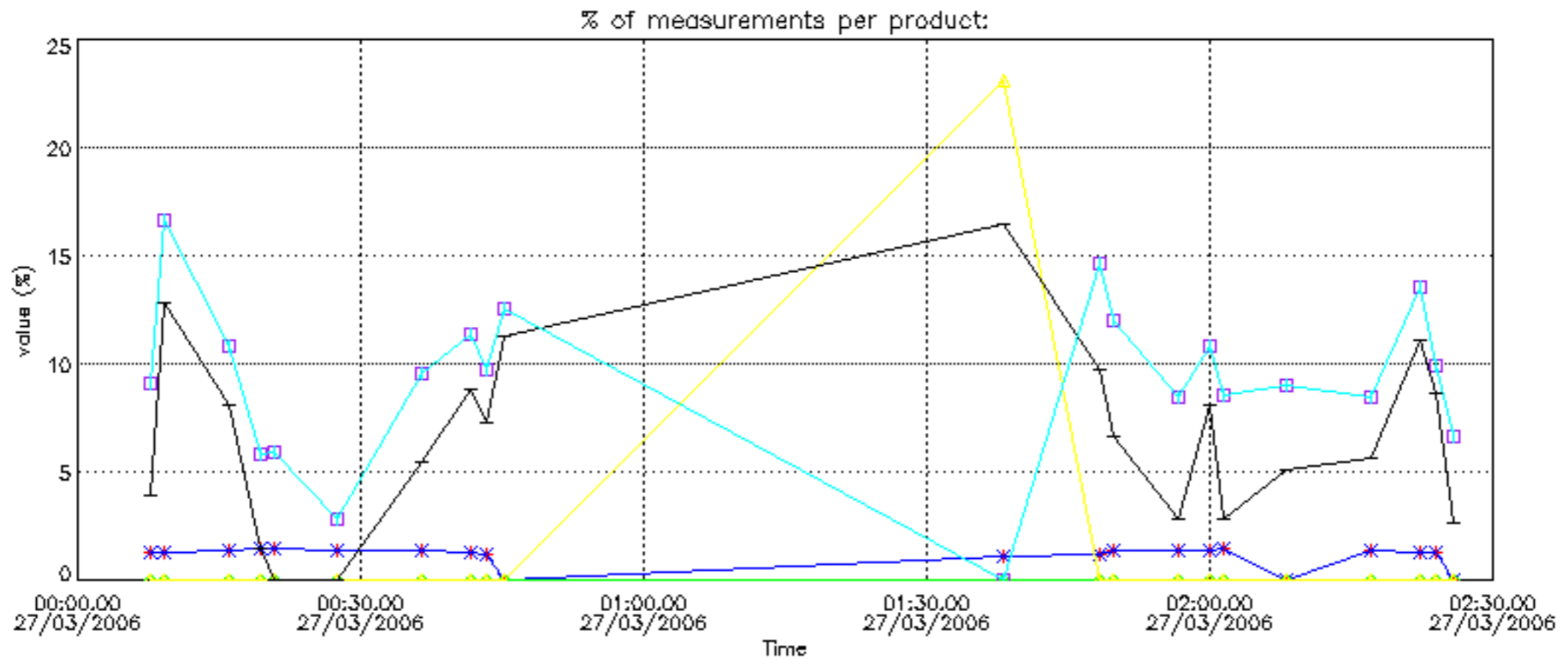
Percentage of flagged data per NO2 profile



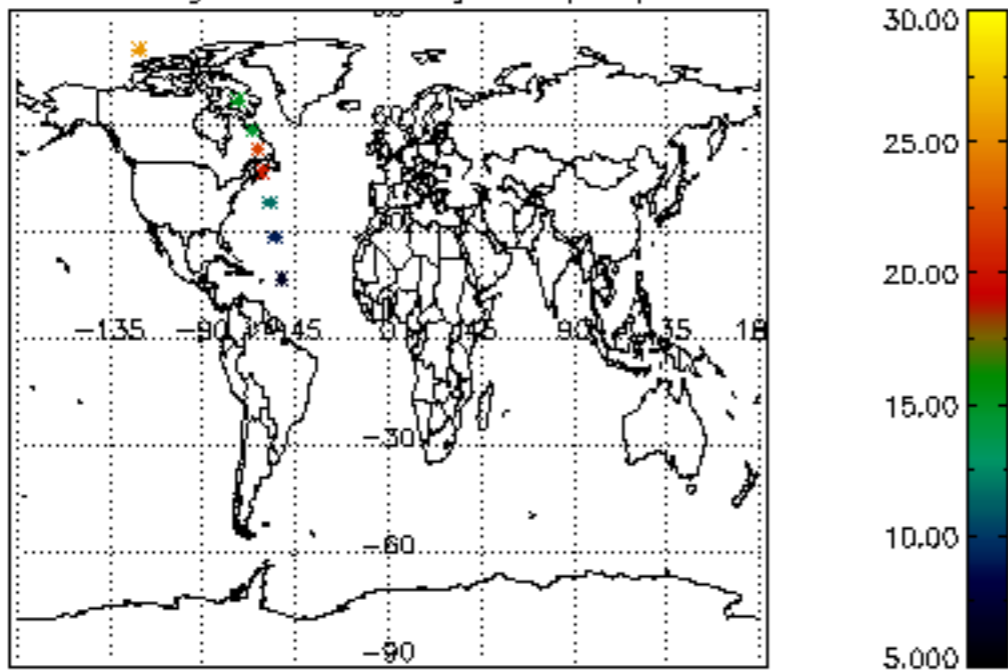
Percentage of flagged data per NO3 profile



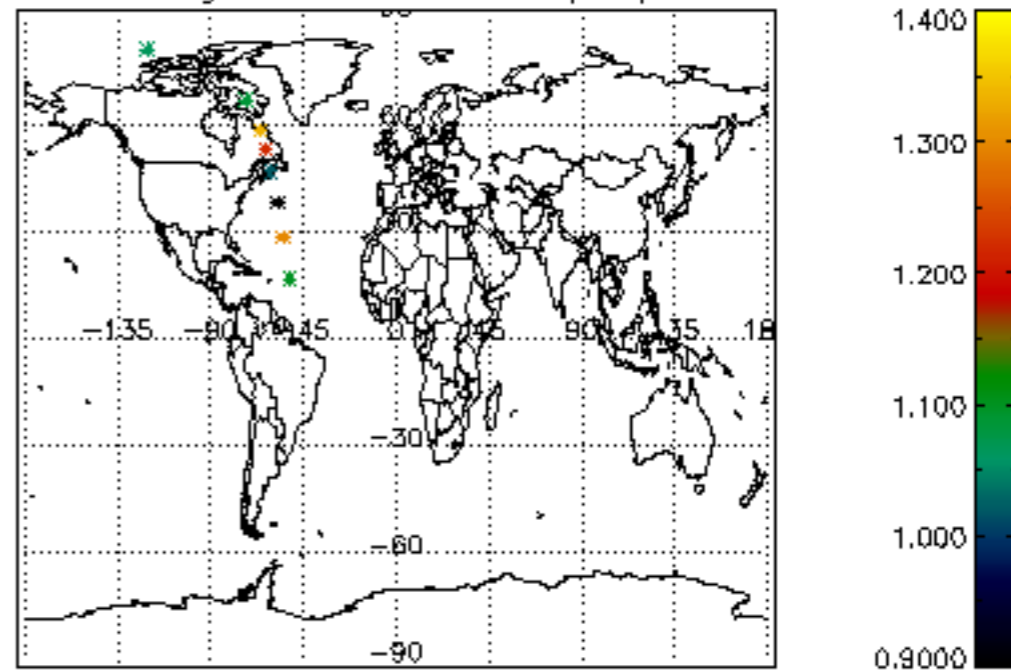




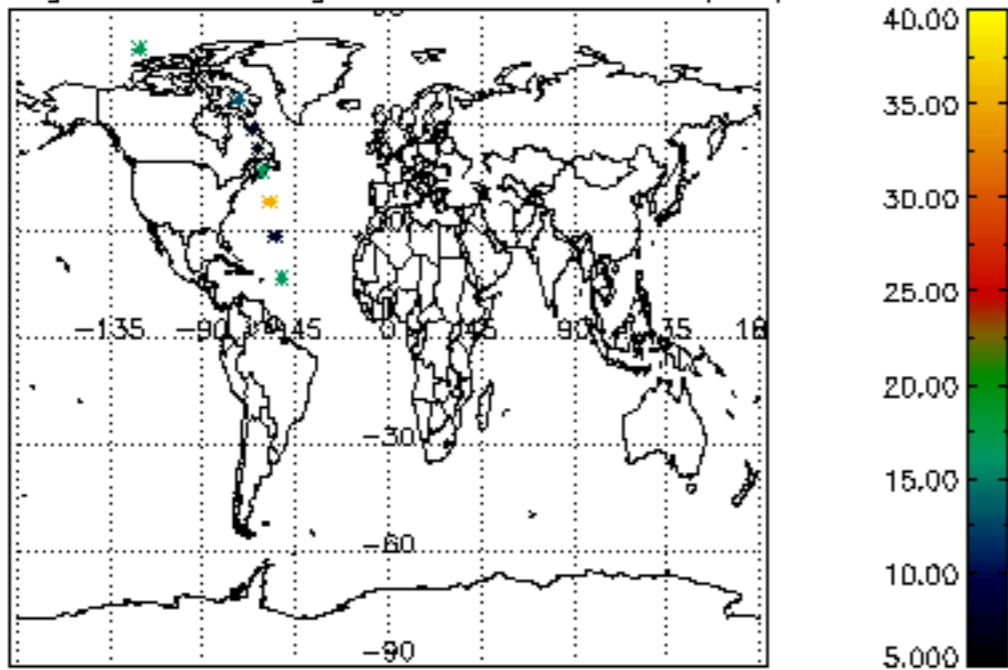
Percentage of cosmic ray hits per profile



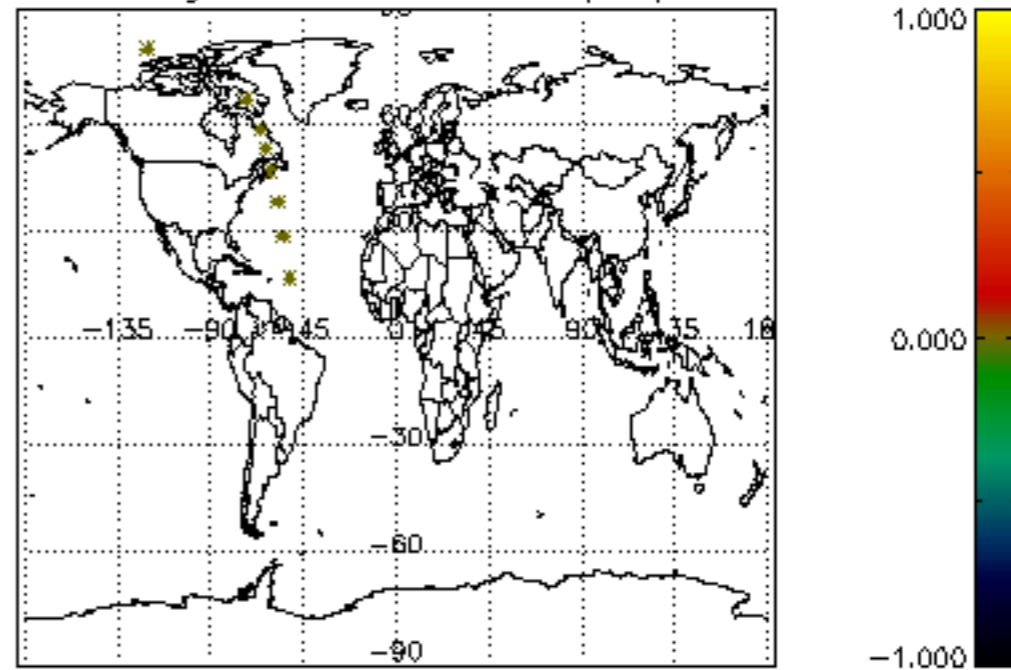
Percentage of datation errors per profile



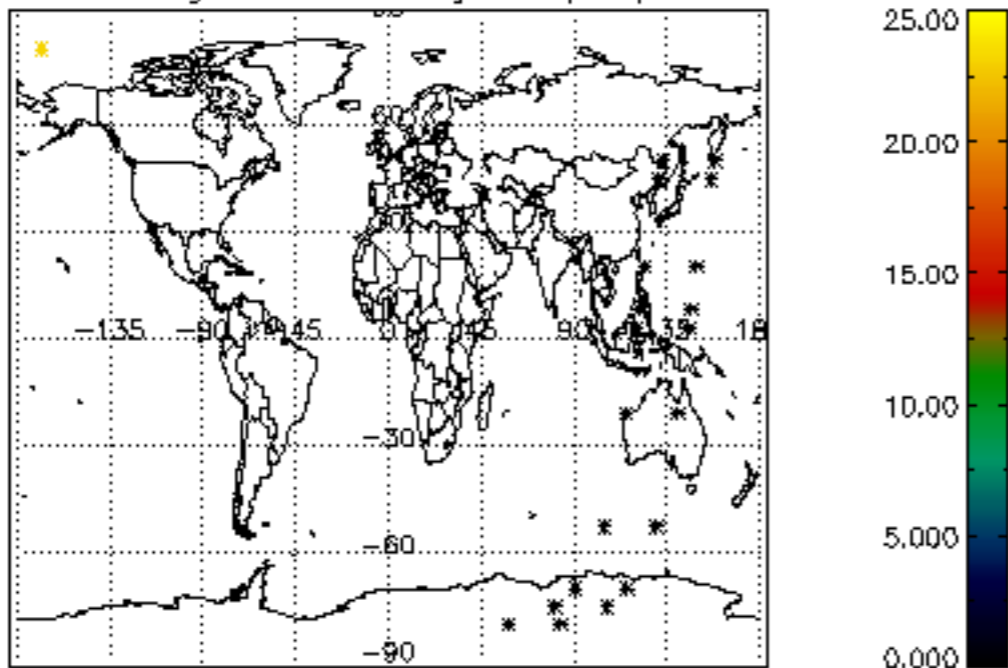
Percentage of star falling outside central band per profile



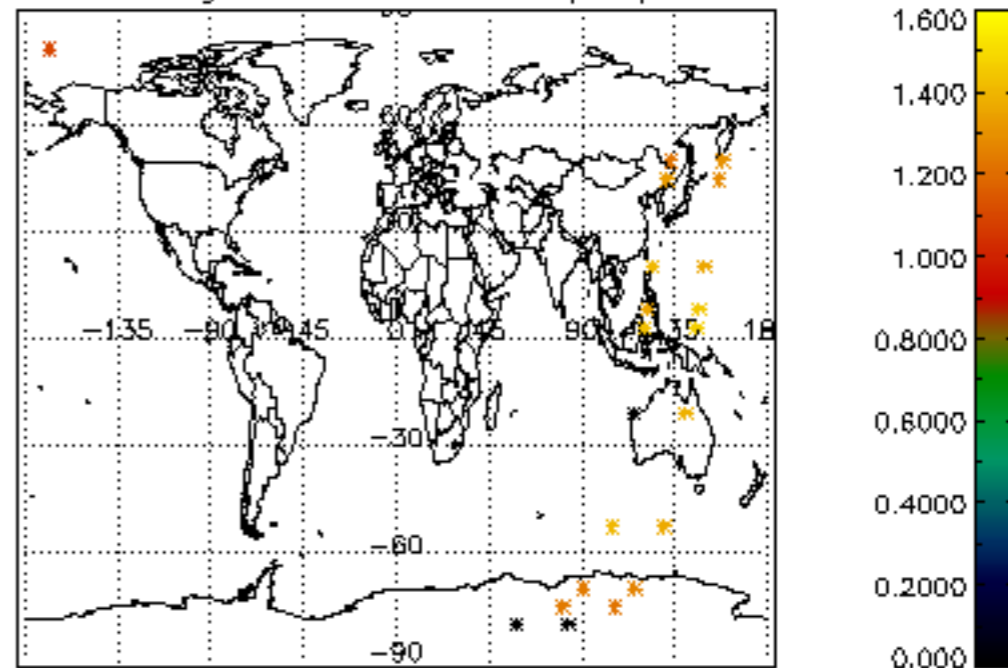
Percentage of saturation errors per profile



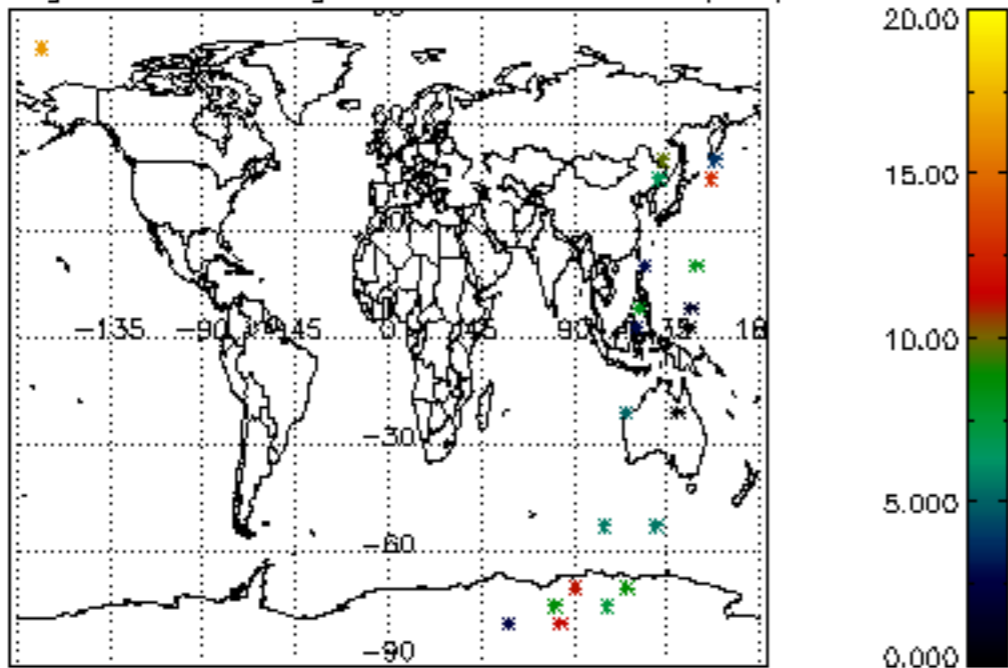
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

