

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	22APR2013 16:31:49
Data source version	GOMOS/6.01
Start time of products	09-03-2006 (09MAR2006 00:00:00)
Stop time of products	10-03-2006 (10MAR2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	223
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

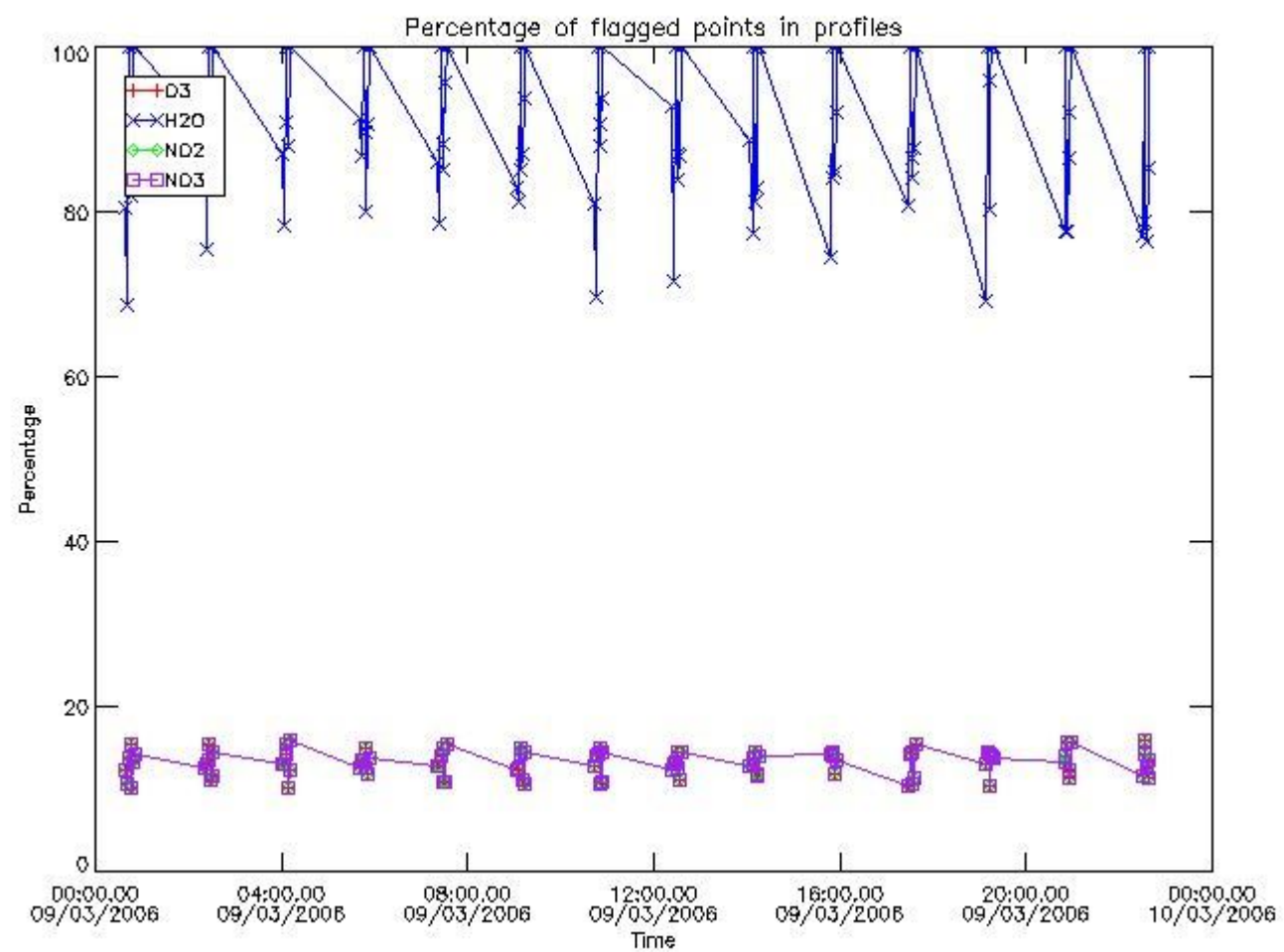
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060309_000155_000000342045_00431_21026_7893.N1	09-MAR-2006 00:01:55	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	21026	No
2	GOM_NL__2PRFIN20060309_000701_000000342045_00431_21026_7894.N1	09-MAR-2006 00:07:01	Bright	34.000	19	50Alp Cyg	1.2460	10500.	68	21026	No
3	GOM_NL__2PRFIN20060309_000834_000000382045_00431_21026_7895.N1	09-MAR-2006 00:08:34	Bright	37.500	66	37Gam Cyg	2.2080	5900.0	75	21026	No
4	GOM_NL__2PRFIN20060309_001012_000000362045_00431_21026_7896.N1	09-MAR-2006 00:10:12	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	21026	No
5	GOM_NL__2PRFIN20060309_003920_000000422045_00432_21027_7882.N1	09-MAR-2006 00:39:20	Dark	41.500	141	Bet Ara	2.8400	4600.0	83	21027	No
6	GOM_NL__2PRFIN20060309_004203_000000492045_00432_21027_7883.N1	09-MAR-2006 00:42:03	Dark	48.500	43	Alp TrA	1.9100	4250.0	97	21027	No
7	GOM_NL__2PRFIN20060309_004418_000000372045_00432_21027_7884.N1	09-MAR-2006 00:44:18	Dark	37.000	145	Gam TrA	2.8720	10600.	74	21027	No
8	GOM_NL__2PRFIN20060309_004554_000000332045_00432_21027_7885.N1	09-MAR-2006 00:45:54	Dark	33.000	4	Alp1Cen	-0.010000	5800.0	66	21027	No
9	GOM_NL__2PRFIN20060309_004711_000000512045_00432_21027_7886.N1	09-MAR-2006 00:47:11	Dark	50.500	10	Bet Cen	0.61000	28000.	101	21027	No
10	GOM_NL__2PRFIN20060309_004926_000000392045_00432_21027_7887.N1	09-MAR-2006 00:49:26	Dark	38.500	12	Alp1Cru	0.77500	30000.	77	21027	No
11	GOM_NL__2PRFIN20060309_005057_000000362045_00432_21027_7888.N1	09-MAR-2006 00:50:57	Dark	36.000	124	The Car	2.7640	30000.	72	21027	No
12	GOM_NL__2PRFIN20060309_005244_000000282045_00432_21027_7889.N1	09-MAR-2006 00:52:44	Straylight	28.000	99	Del Cen	2.5750	26000.	56	21027	No
13	GOM_NL__2PRFIN20060309_005447_000000402045_00432_21027_7890.N1	09-MAR-2006 00:54:47	Straylight	39.500	113	Mu Vel	2.6920	5000.0	79	21027	No
14	GOM_NL__2PRFIN20060309_010702_000000442045_00432_21027_7891.N1	09-MAR-2006 01:07:02	Twilight	43.500	48	30Alp Hya	1.9770	4100.0	87	21027	No
15	GOM_NL__2PRFIN20060309_011608_000000372045_00432_21027_7892.N1	09-MAR-2006 01:16:08	Bright	37.000	166	17Eps Leo	2.9800	6000.0	74	21027	No
16	GOM_NL__2PRFIN20060309_013450_000000352045_00432_21027_7893.N1	09-MAR-2006 01:34:50	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	21027	No
17	GOM_NL__2PRFIN20060309_014231_000000362045_00432_21027_7894.N1	09-MAR-2006 01:42:31	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	21027	No
18	GOM_NL__2PRFIN20060309_014737_000000352045_00432_21027_7895.N1	09-MAR-2006 01:47:37	Bright	34.500	19	50Alp Cyg	1.2460	10500.	69	21027	No
19	GOM_NL__2PRFIN20060309_014910_000000352045_00432_21027_7896.N1	09-MAR-2006 01:49:10	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	21027	No
20	GOM_NL__2PRFIN20060309_015048_000000342045_00432_21027_7897.N1	09-MAR-2006 01:50:48	Bright	33.500	92	53Eps Cyg	2.5000	4500.0	67	21027	No
21	GOM_NL__2PRFIN20060309_021956_000000412045_00433_21028_8103.N1	09-MAR-2006 02:19:56	Dark	41.000	141	Bet Ara	2.8400	4600.0	82	21028	No
22	GOM_NL__2PRFIN20060309_022239_000000392045_00433_21028_8104.N1	09-MAR-2006 02:22:39	Dark	39.000	43	Alp TrA	1.9100	4250.0	78	21028	No
23	GOM_NL__2PRFIN20060309_022455_000000382045_00433_21028_8105.N1	09-MAR-2006 02:24:55	Dark	37.500	145	Gam TrA	2.8720	10600.	75	21028	No
24	GOM_NL__2PRFIN20060309_022631_000000332045_00433_21028_8106.N1	09-MAR-2006 02:26:31	Dark	33.000	4	Alp1Cen	-0.010000	5800.0	66	21028	No
25	GOM_NL__2PRFIN20060309_022747_000000462045_00433_21028_8107.N1	09-MAR-2006 02:27:47	Dark	46.000	10	Bet Cen	0.61000	28000.	92	21028	No
26	GOM_NL__2PRFIN20060309_023002_000000452045_00433_21028_8108.N1	09-MAR-2006 02:30:02	Dark	44.500	12	Alp1Cru	0.77500	30000.	89	21028	No
27	GOM_NL__2PRFIN20060309_023133_000000352045_00433_21028_8109.N1	09-MAR-2006 02:31:33	Dark	35.000	124	The Car	2.7640	30000.	70	21028	No
28	GOM_NL__2PRFIN20060309_023320_000000332045_00433_21028_8110.N1	09-MAR-2006 02:33:20	Straylight	33.000	99	Del Cen	2.5750	26000.	66	21028	No
29	GOM_NL__2PRFIN20060309_023523_000000392045_00433_21028_8111.N1	09-MAR-2006 02:35:23	Straylight	38.500	113	Mu Vel	2.6920	5000.0	77	21028	No
30	GOM_NL__2PRFIN20060309_024738_000000442045_00433_21028_8112.N1	09-MAR-2006 02:47:38	Twilight	44.000	48	30Alp Hya	1.9770	4100.0	88	21028	No
31	GOM_NL__2PRFIN20060309_025644_000000382045_00433_21028_8113.N1	09-MAR-2006 02:56:44	Bright	37.500	166	17Eps Leo	2.9800	6000.0	75	21028	No
32	GOM_NL__2PRFIN20060309_031526_000000352045_00433_21028_8114.N1	09-MAR-2006 03:15:26	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	21028	No
33	GOM_NL__2PRFIN20060309_032307_000000342045_00433_21028_8115.N1	09-MAR-2006 03:23:07	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	21028	No
34	GOM_NL__2PRFIN20060309_032813_000000372045_00433_21028_8116.N1	09-MAR-2006 03:28:13	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	21028	No
35	GOM_NL__2PRFIN20060309_032946_000000352045_00433_21028_8117.N1	09-MAR-2006 03:29:46	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	21028	No
36	GOM_NL__2PRFIN20060309_033124_000000342045_00433_21028_8118.N1	09-MAR-2006 03:31:24	Bright	33.500	92	53Eps Cyg	2.5000	4500.0	67	21028	No
37	GOM_NL__2PRFIN20060309_040033_000000432045_00434_21029_7903.N1	09-MAR-2006 04:00:33	Dark	43.000	141	Bet Ara	2.8400	4600.0	86	21029	No
38	GOM_NL__2PRFIN20060309_040316_000000402045_00434_21029_7904.N1	09-MAR-2006 04:03:16	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	21029	No
39	GOM_NL__2PRFIN20060309_040531_000000362045_00434_21029_7905.N1	09-MAR-2006 04:05:31	Dark	36.000	145	Gam TrA	2.8720	10600.	72	21029	No
40	GOM_NL__2PRFIN20060309_040707_000000332045_00434_21029_7906.N1	09-MAR-2006 04:07:07	Dark	33.000	4	Alp1Cen	-0.010000	5800.0	66	21029	No
41	GOM_NL__2PRFIN20060309_040824_000000512045_00434_21029_7907.N1	09-MAR-2006 04:08:24	Dark	50.500	10	Bet Cen	0.61000	28000.	101	21029	No
42	GOM_NL__2PRFIN20060309_041039_000000422045_00434_21029_7908.N1	09-MAR-2006 04:10:39	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	21029	No

220	GOM_NL__2PRFIN20060309_233019_000000372045_00445_21040_7933.N1	09-MAR-2006 23:30:19	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	21040	No
221	GOM_NL__2PRFIN20060309_233525_000000342045_00445_21040_7934.N1	09-MAR-2006 23:35:25	Bright	34.000	19	50Alp Cyg	1.2460	10500.	68	21040	No
222	GOM_NL__2PRFIN20060309_233659_000000362045_00445_21040_7935.N1	09-MAR-2006 23:36:59	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	21040	No
223	GOM_NL__2PRFIN20060309_233837_000000352045_00445_21040_7936.N1	09-MAR-2006 23:38:37	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	21040	No

3. Quality information per product

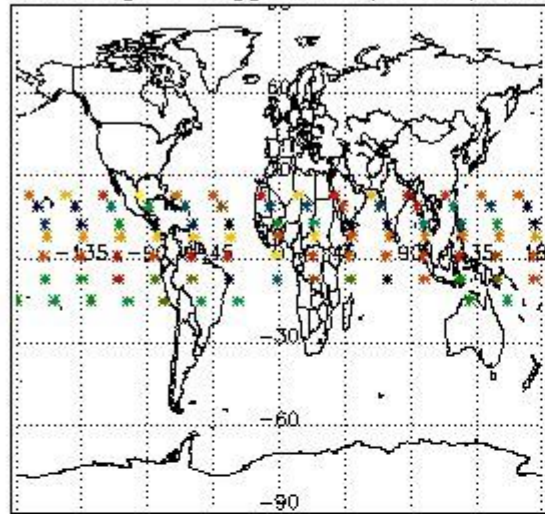
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

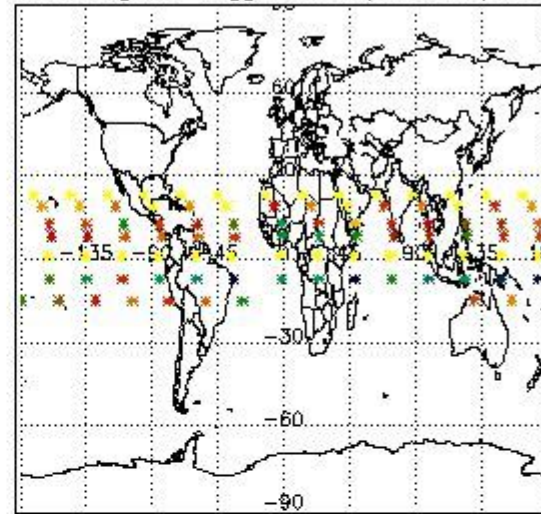


3.2 Plot quality information per product (world map)

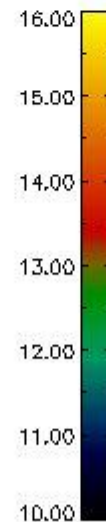
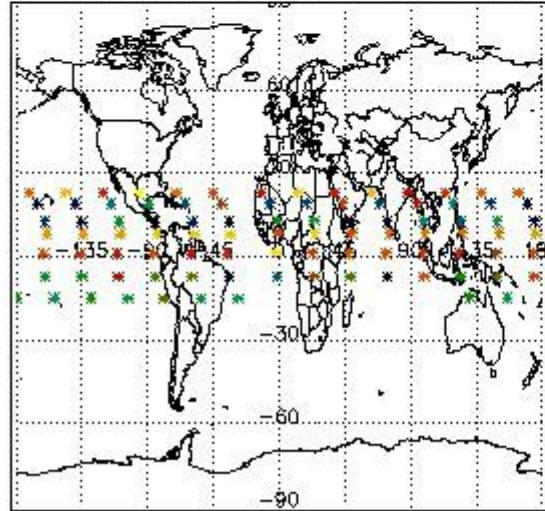
Percentage of flagged data per O3 profile



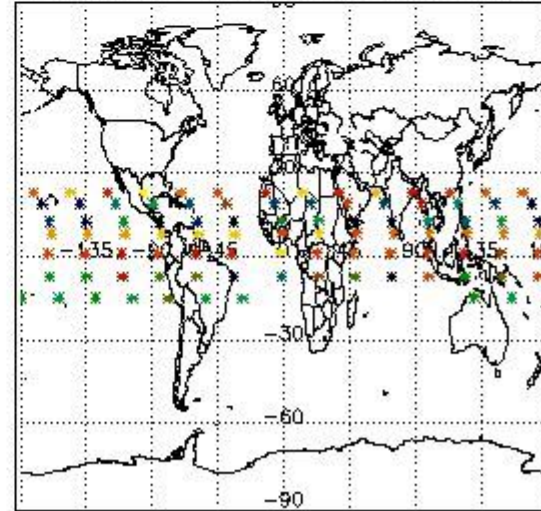
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

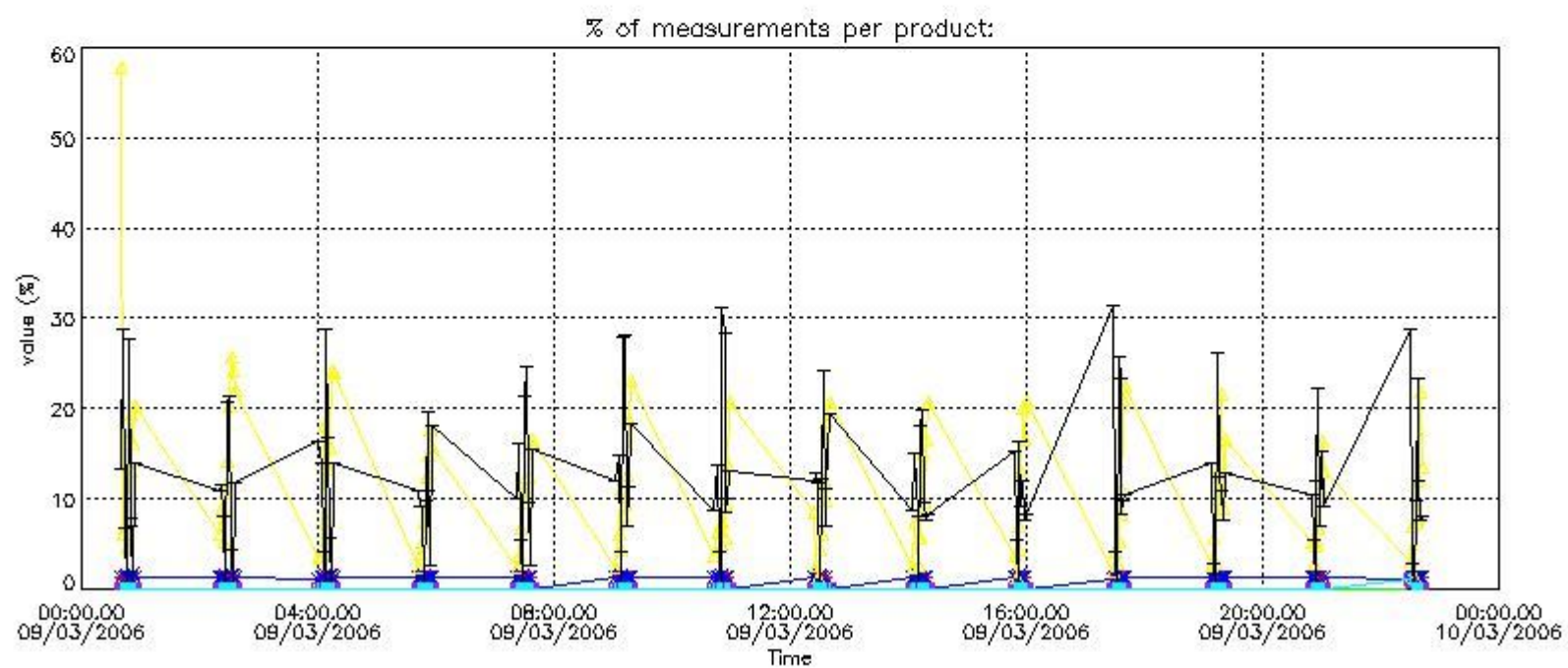
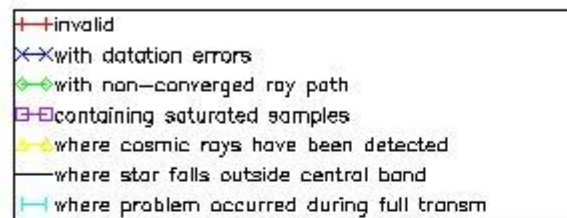


4. Level 1 quality information per product

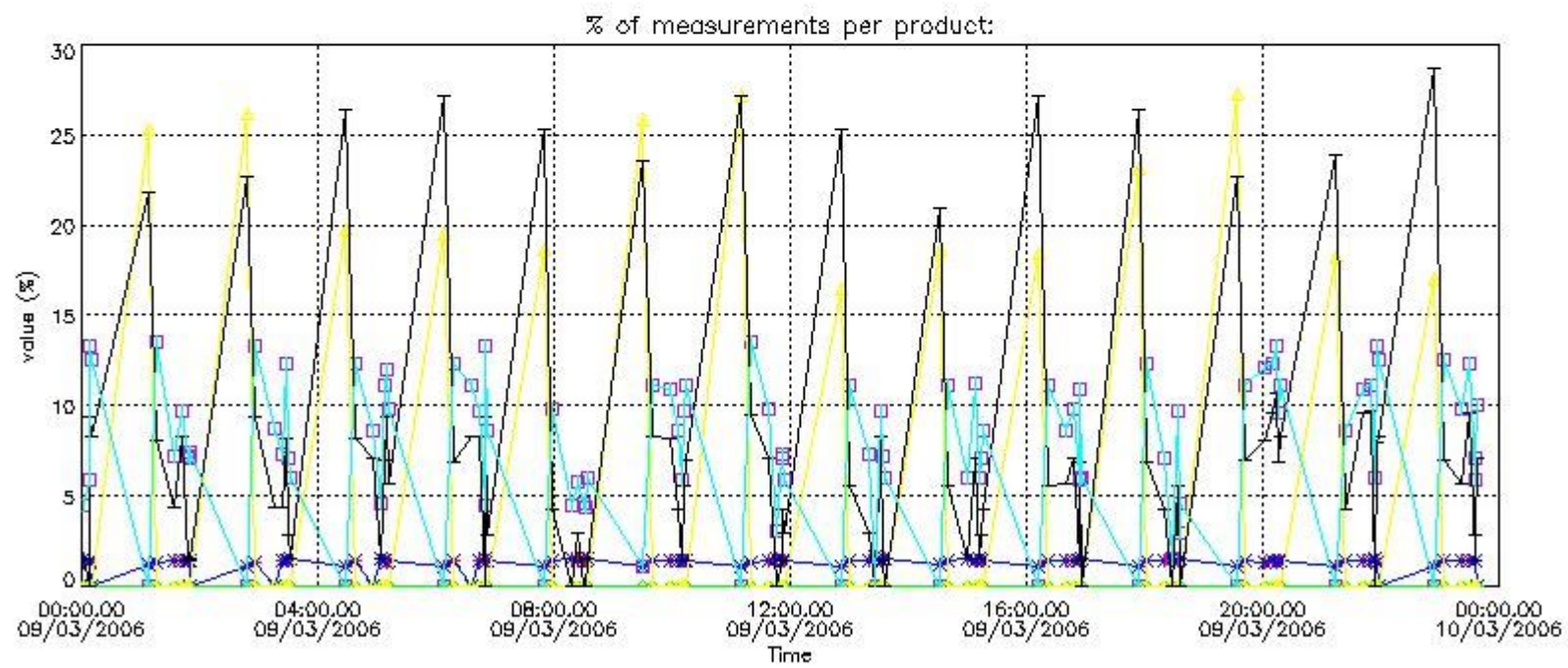
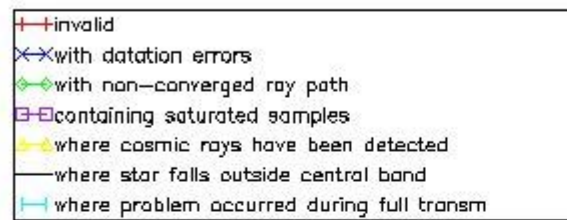
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



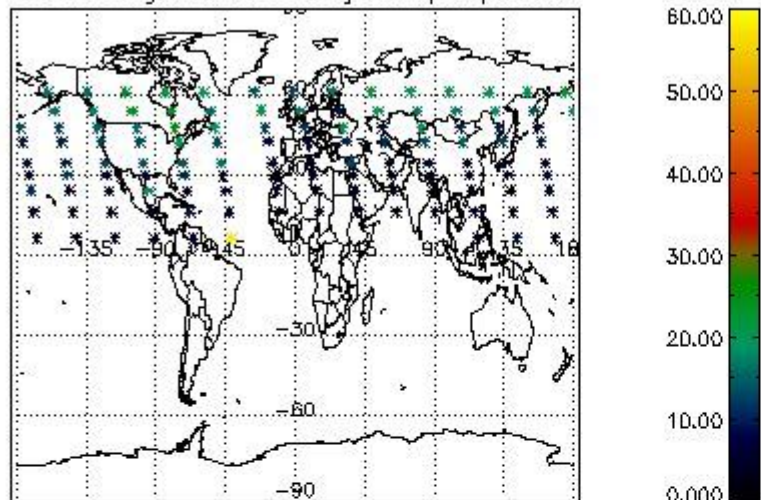
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



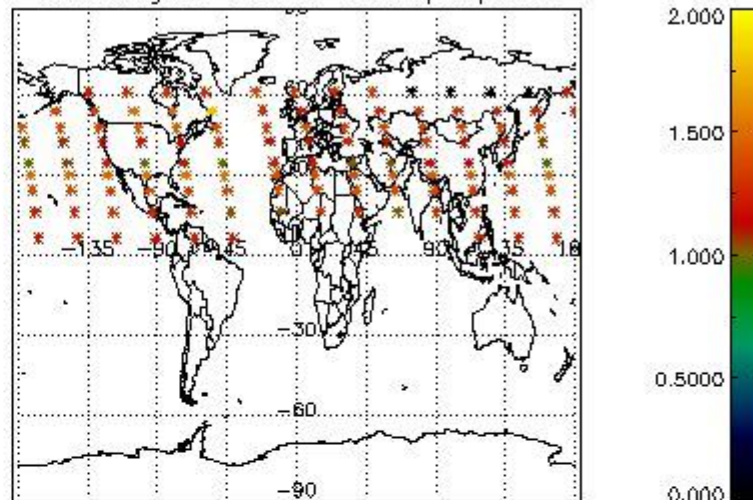
4.2 Plot quality information per product coming from level 1b processing (world map)

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

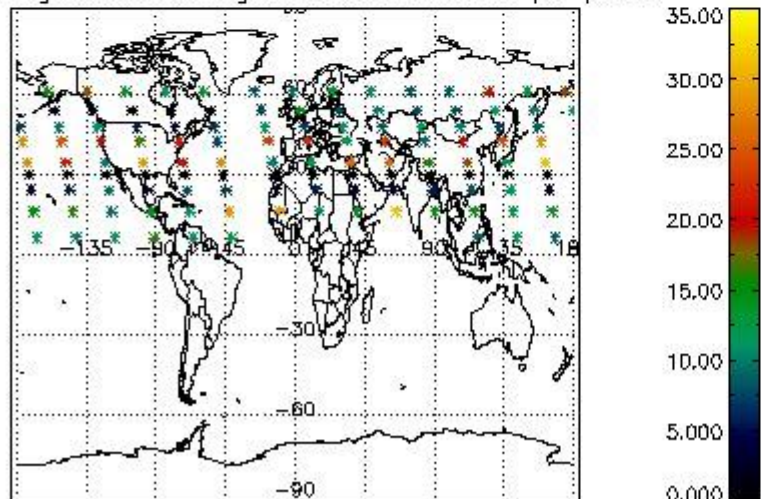
Percentage of cosmic ray hits per profile



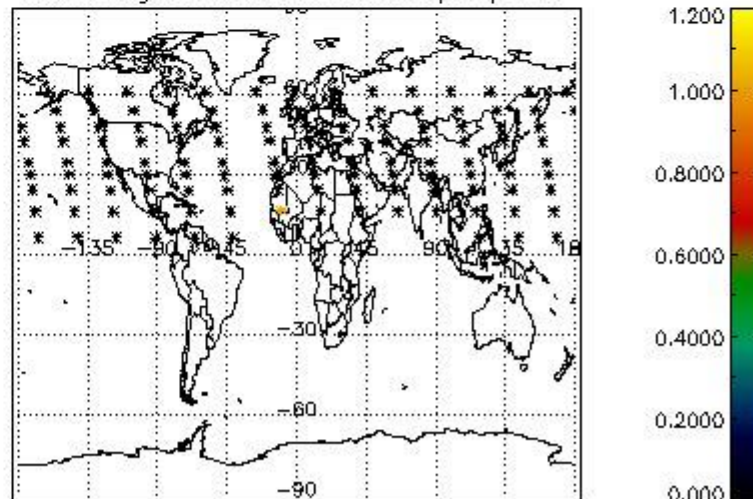
Percentage of datation errors per profile



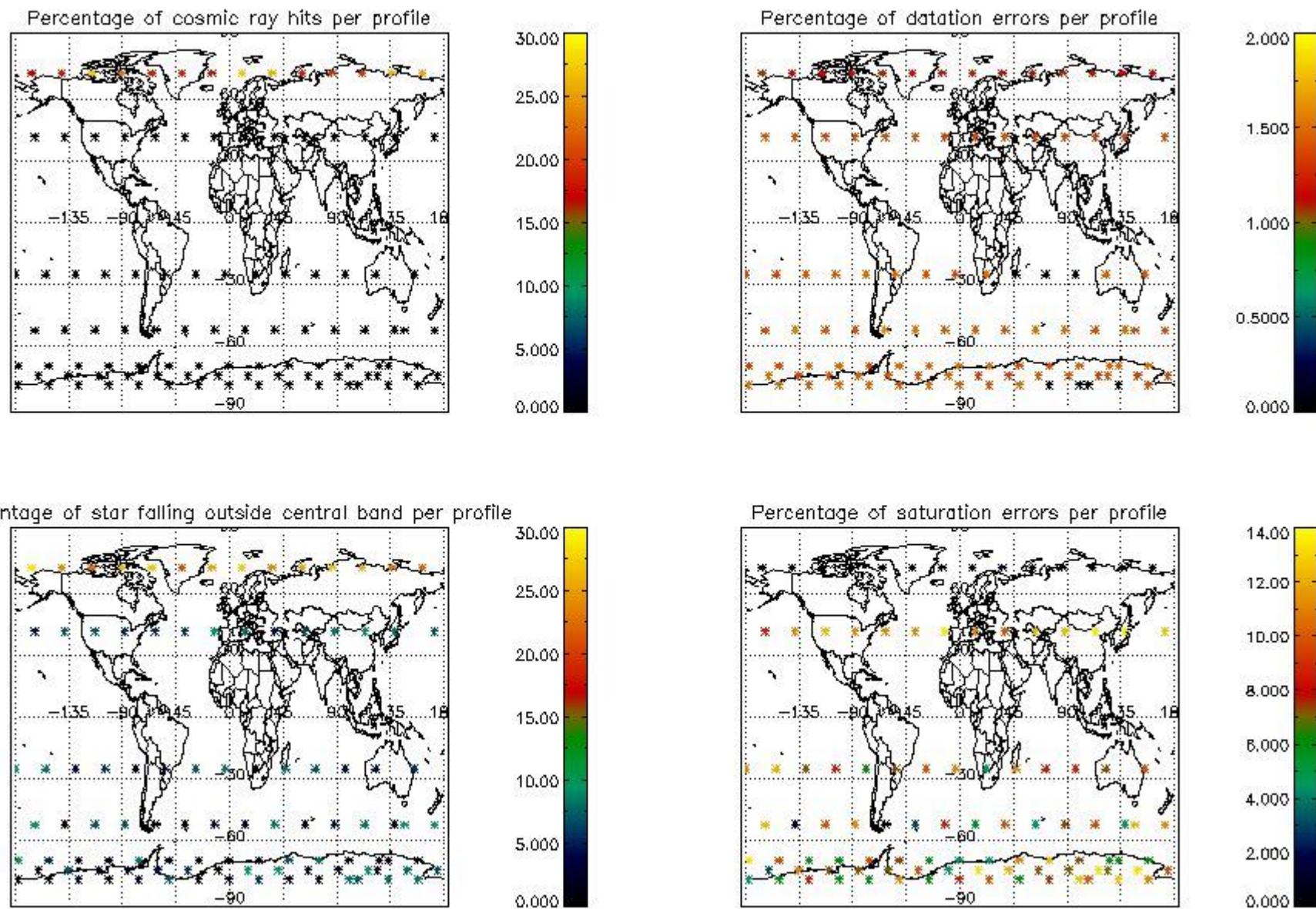
Percentage of star falling outside central band per profile



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

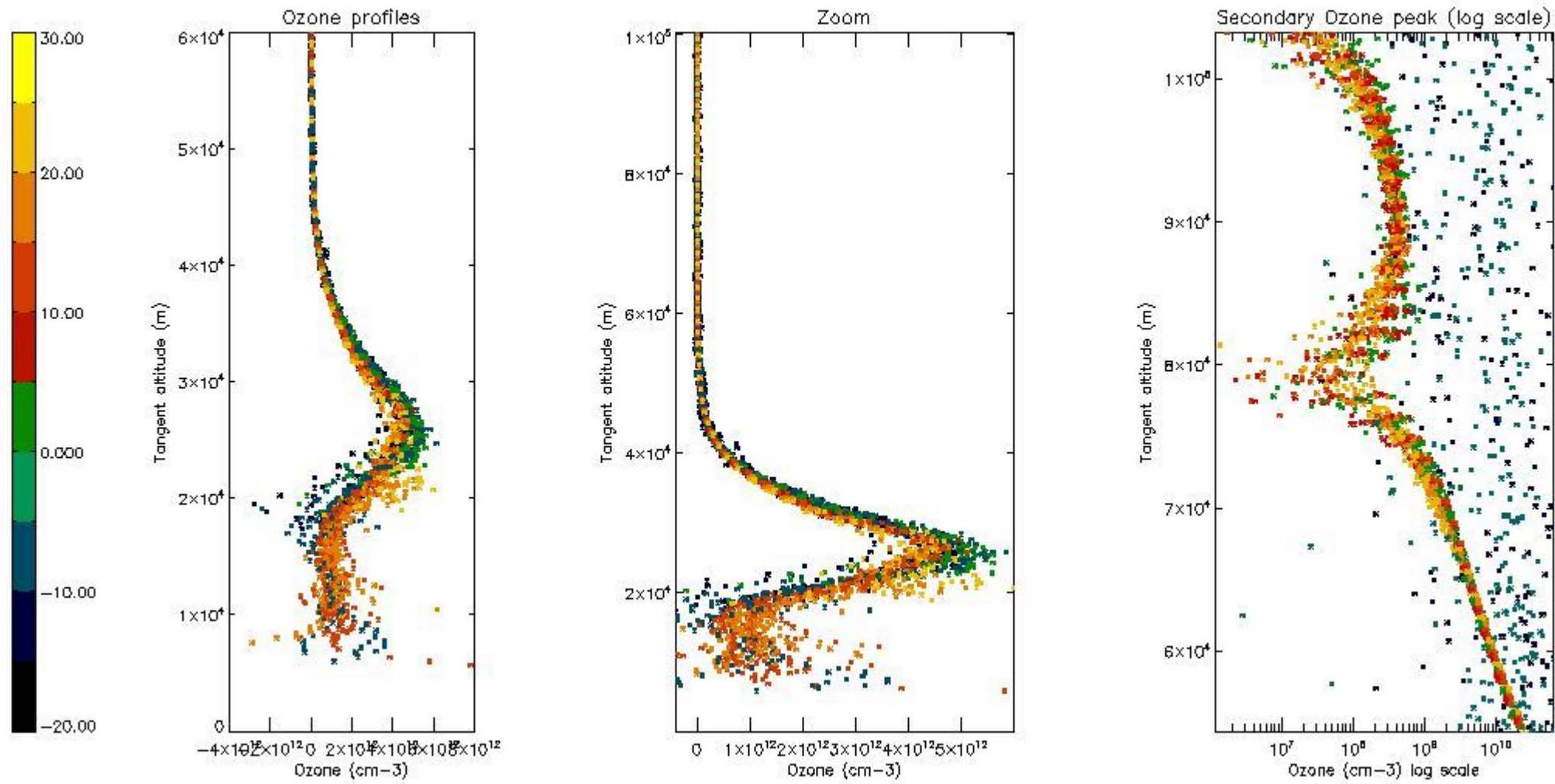
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	44
STD < 20	26

STD < 10	22
STD < 5	15

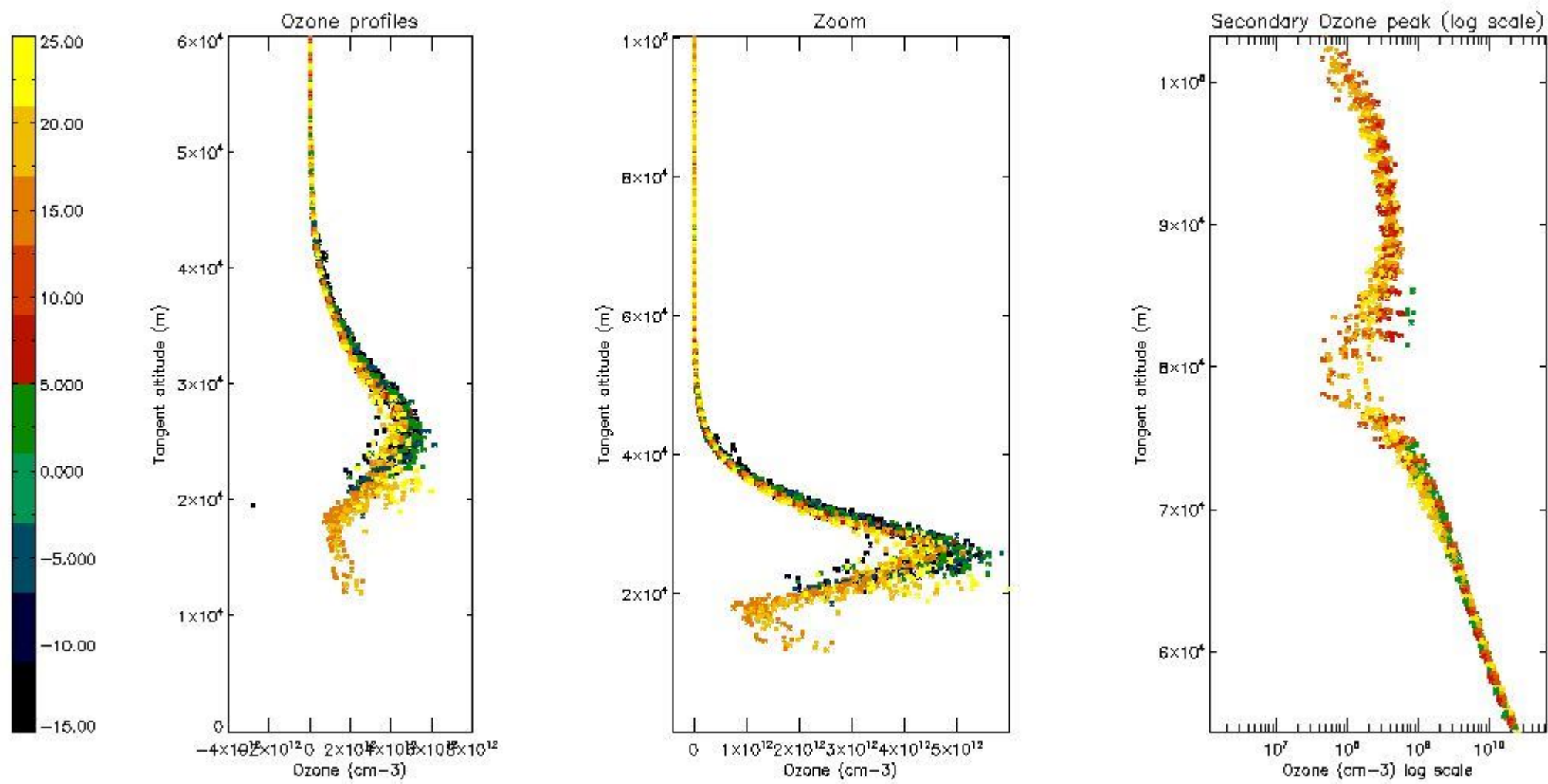
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



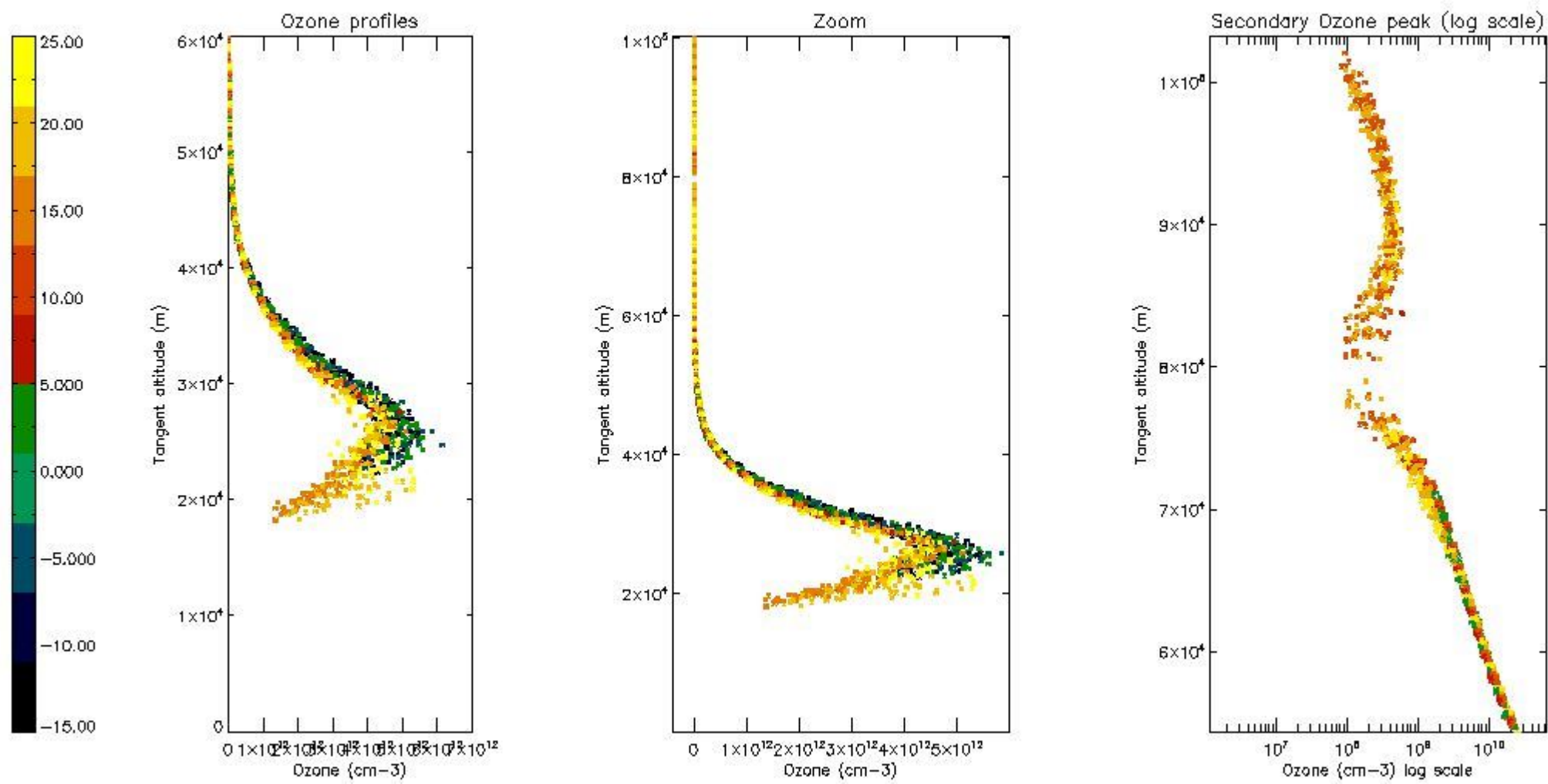
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



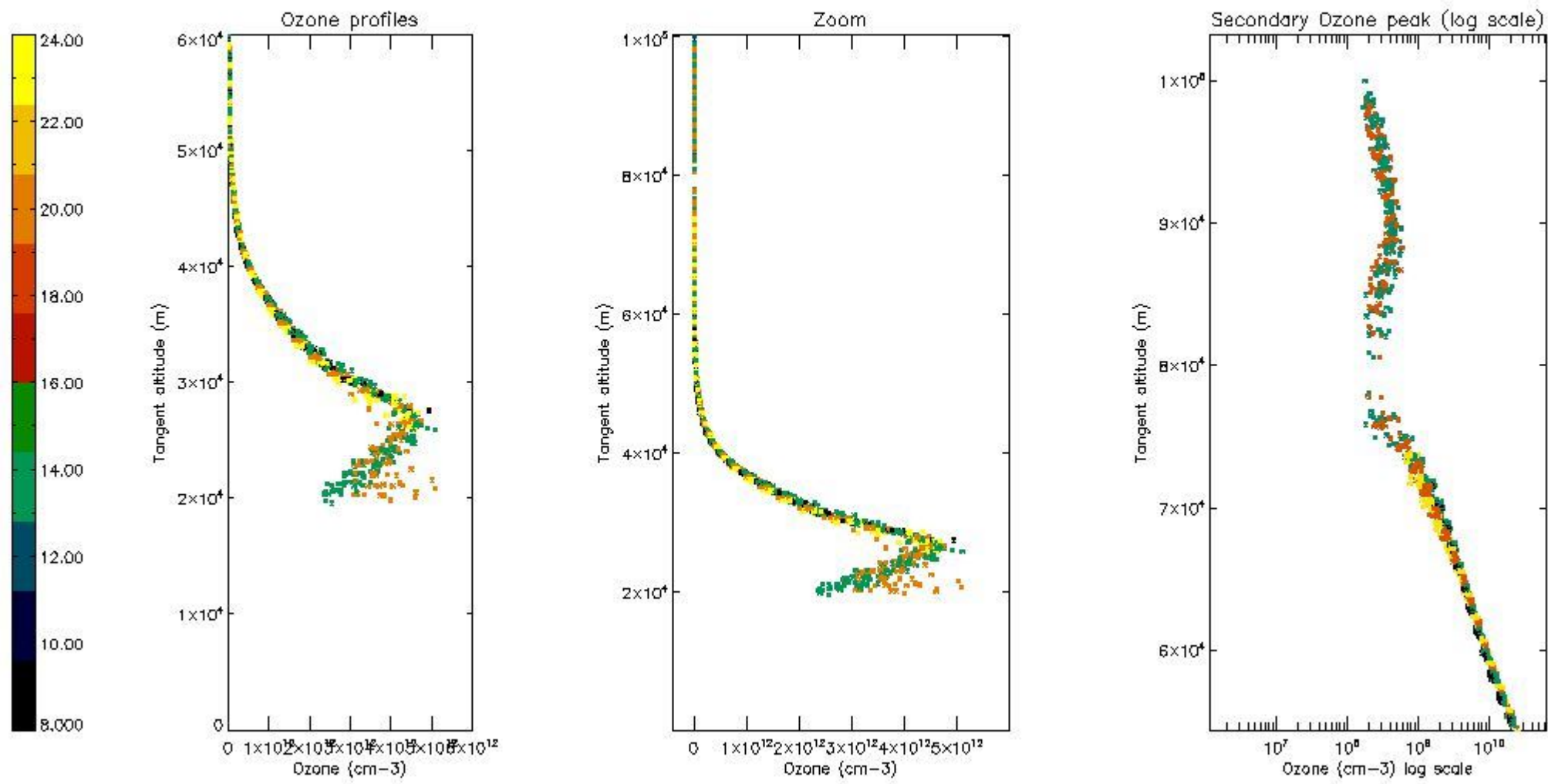
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



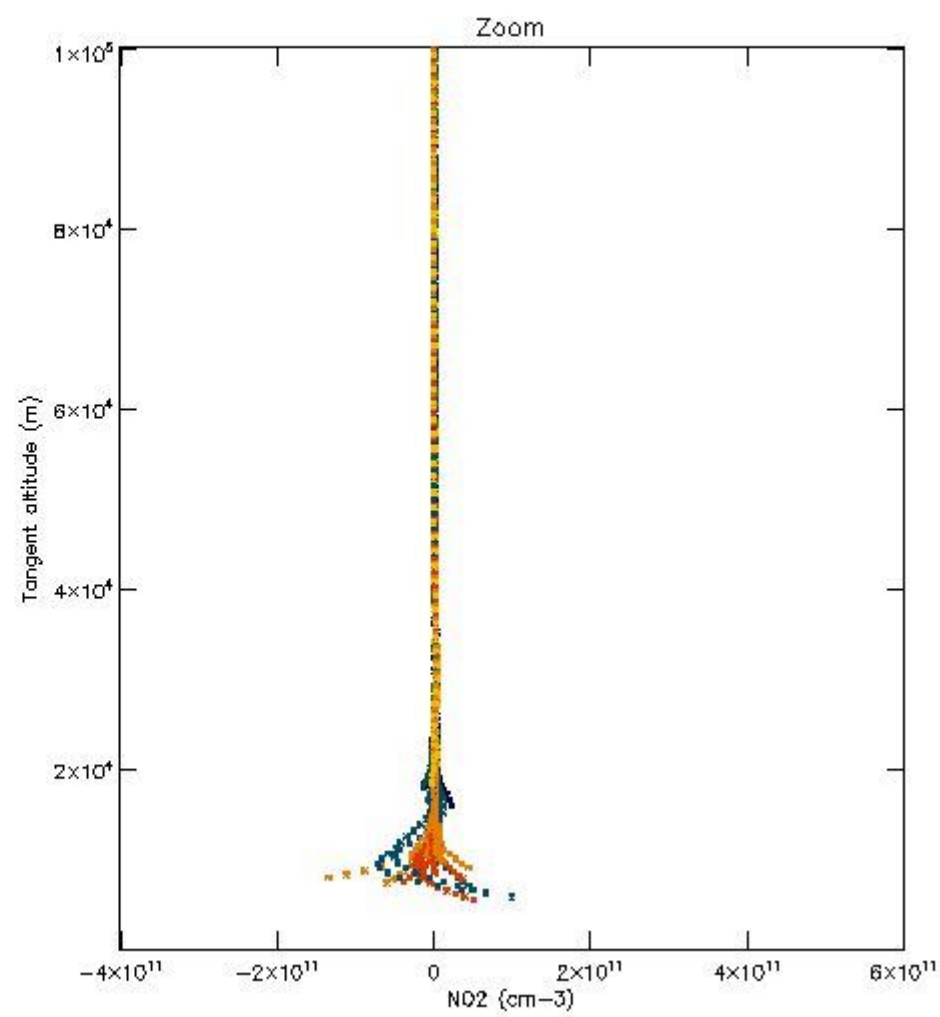
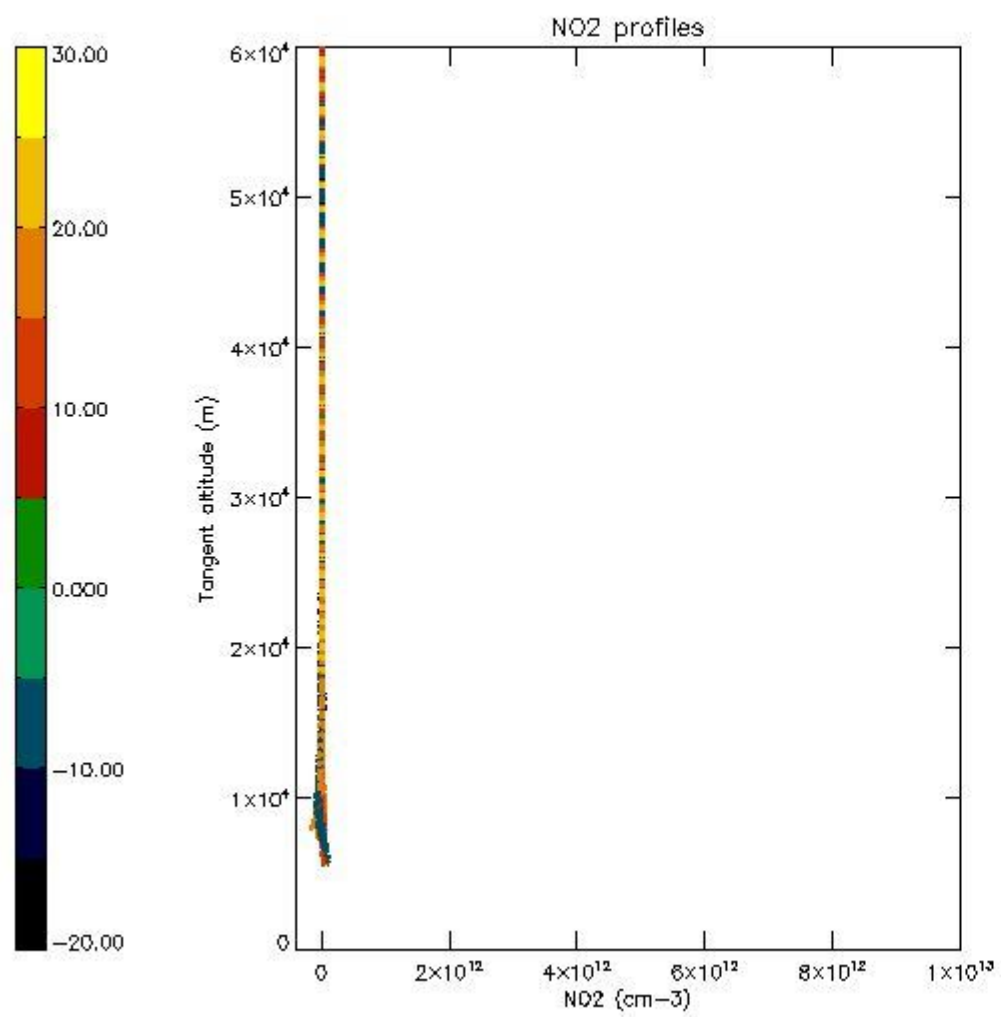
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



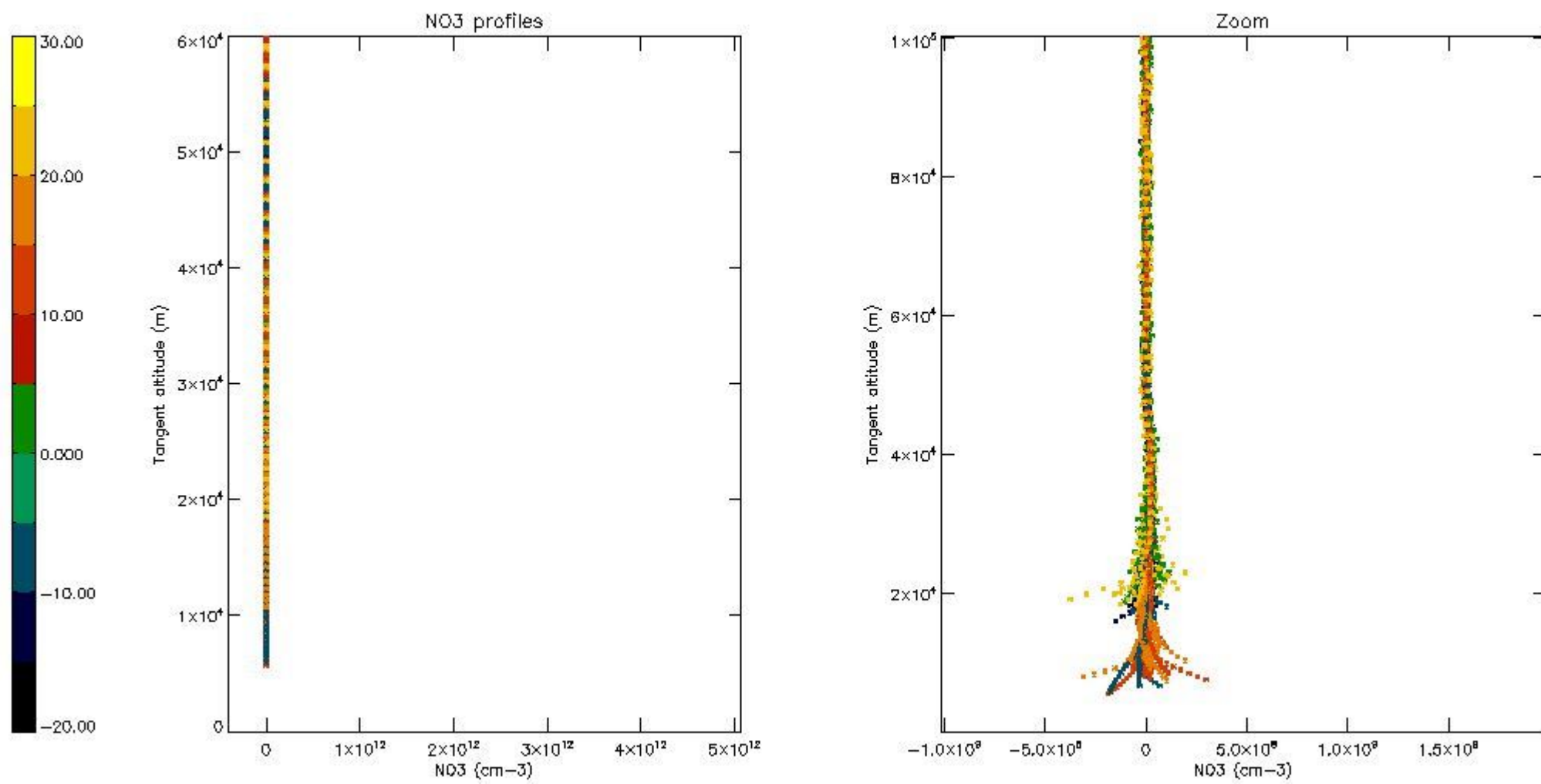
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



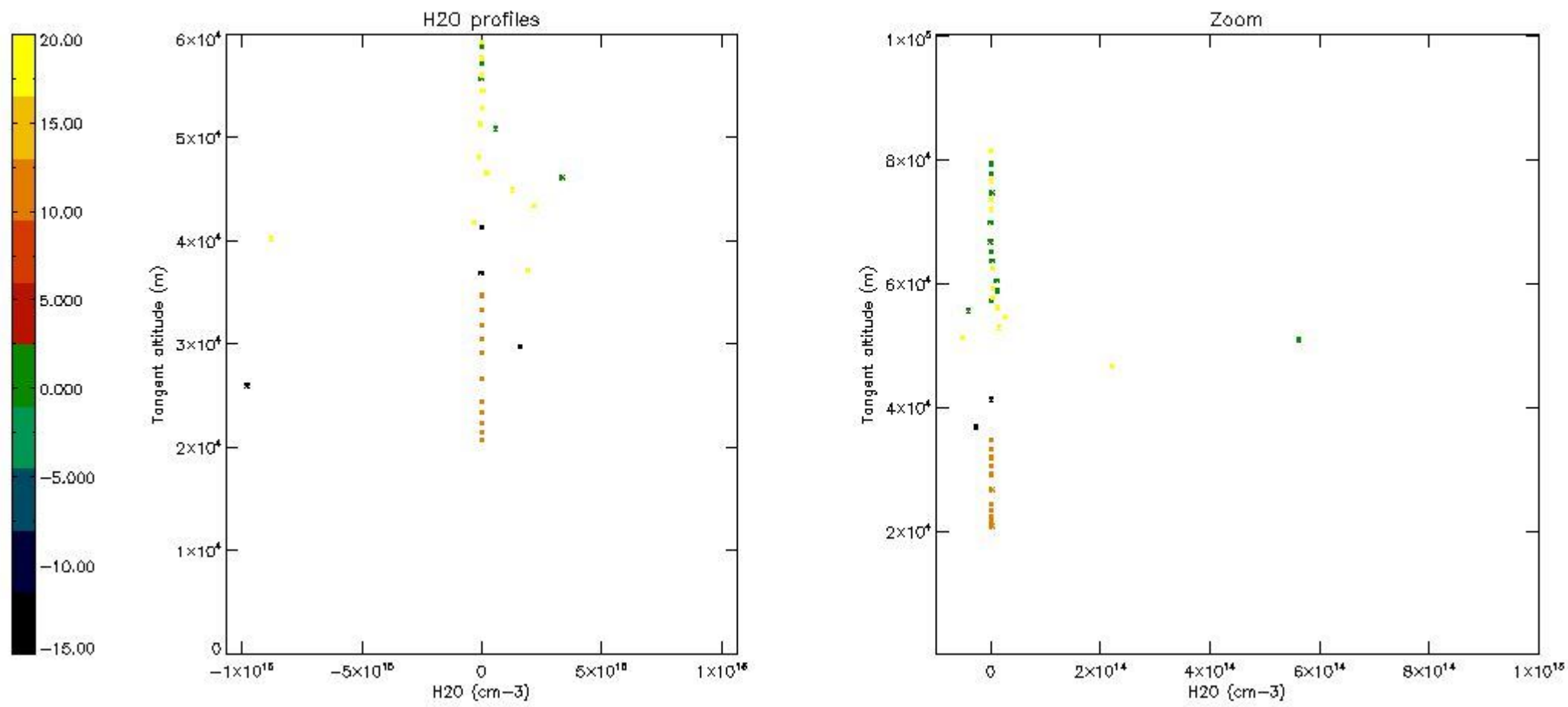
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-MAR-2006 00:01:55
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-MAR-2006 00:01:55
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-MAR-2006 00:01:55

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[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

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[5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

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

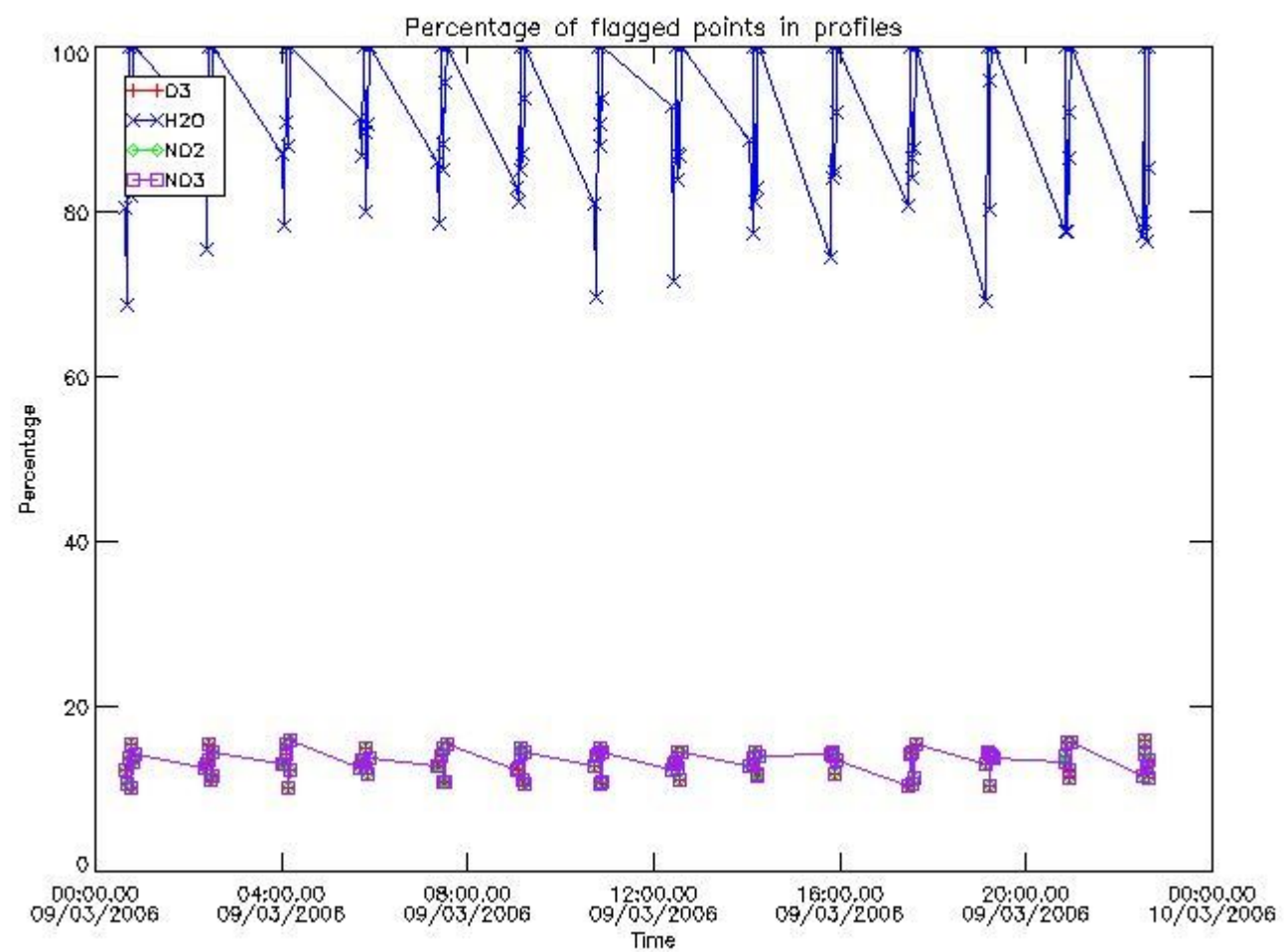
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220	GOM_NL__2PRFIN20060309_233019_000000372045_00445_21040_7933.N1	09-MAR-2006 23:30:19	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	21040	No
221	GOM_NL__2PRFIN20060309_233525_000000342045_00445_21040_7934.N1	09-MAR-2006 23:35:25	Bright	34.000	19	50Alp Cyg	1.2460	10500.	68	21040	No
222	GOM_NL__2PRFIN20060309_233659_000000362045_00445_21040_7935.N1	09-MAR-2006 23:36:59	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	21040	No
223	GOM_NL__2PRFIN20060309_233837_000000352045_00445_21040_7936.N1	09-MAR-2006 23:38:37	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	21040	No

3. Quality information per product

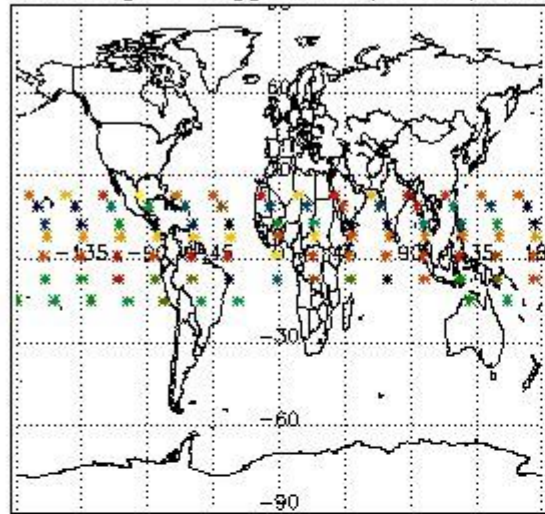
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

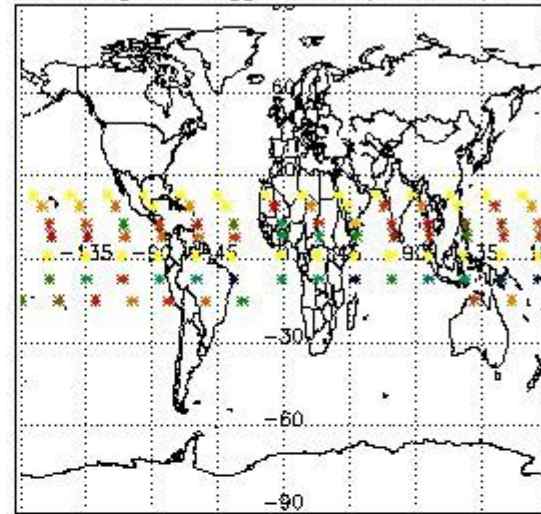


3.2 Plot quality information per product (world map)

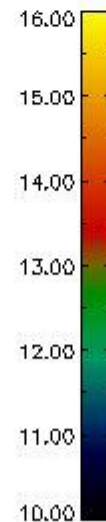
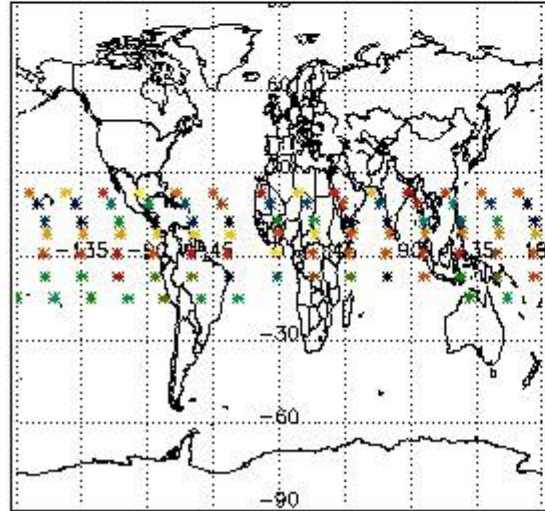
Percentage of flagged data per O3 profile



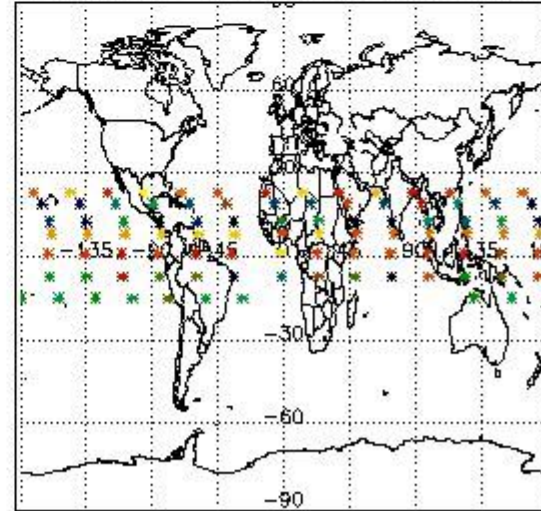
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

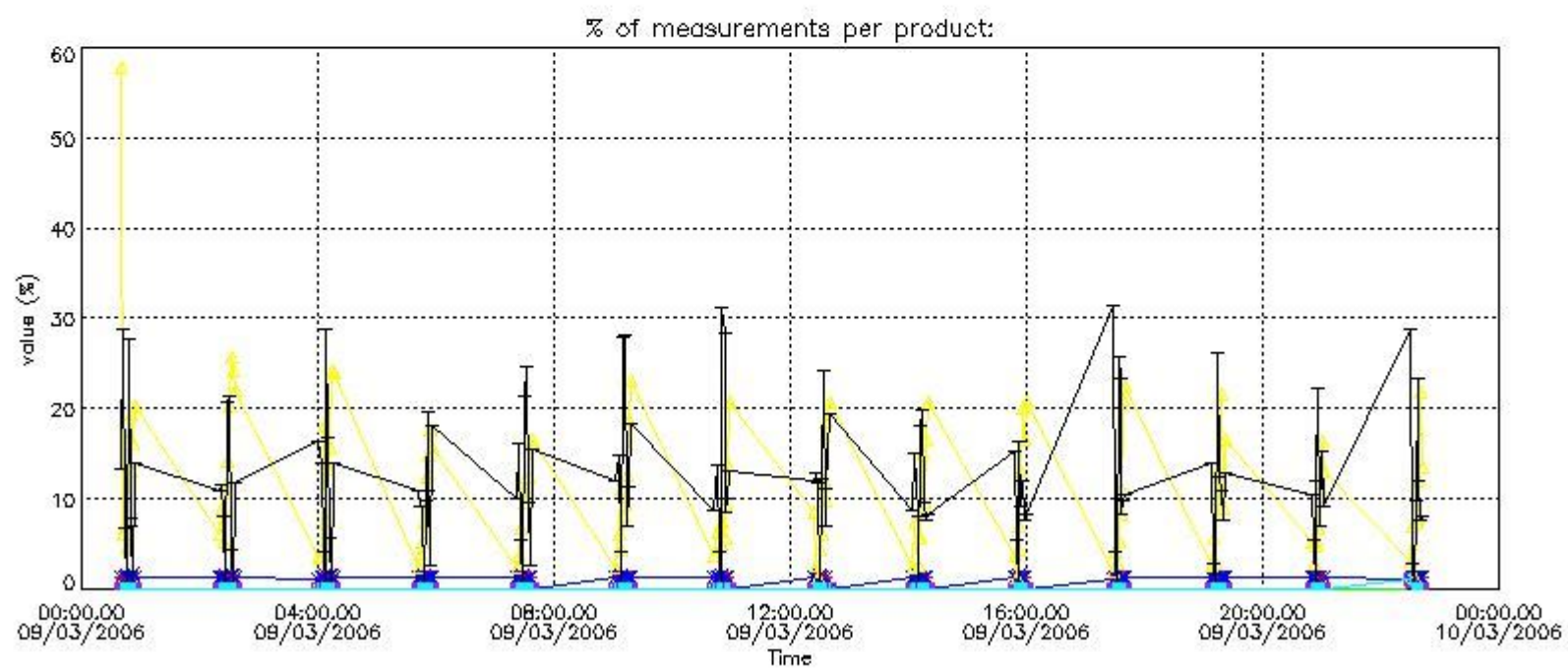
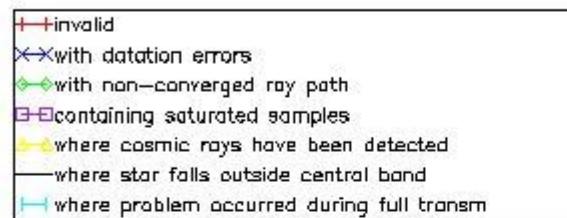


4. Level 1 quality information per product

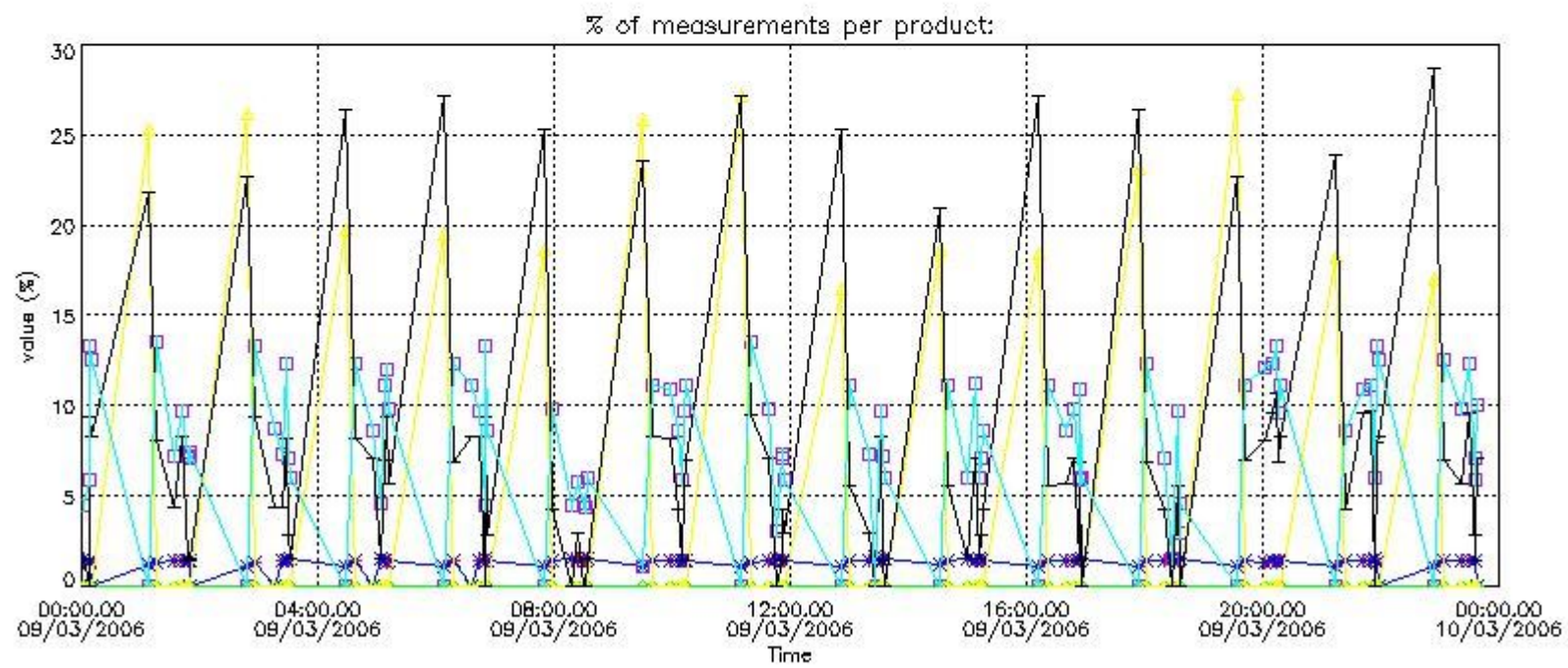
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



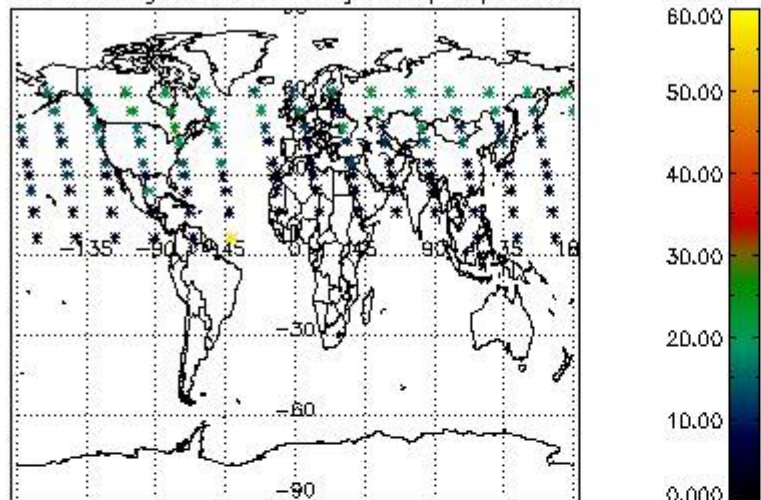
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



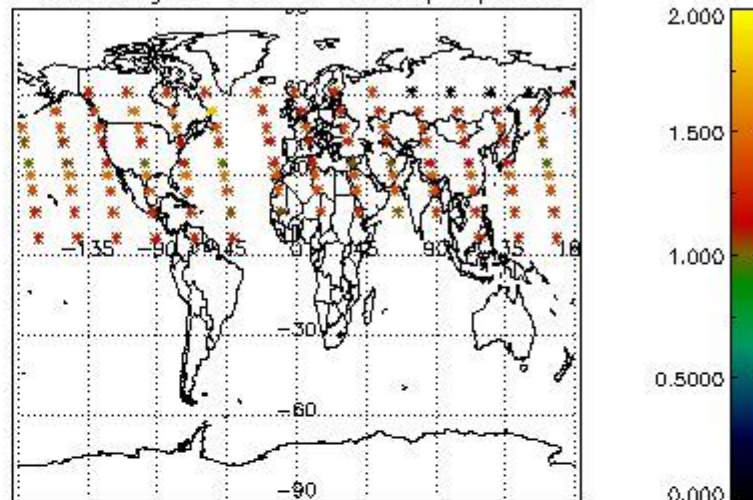
4.2 Plot quality information per product coming from level 1b processing (world map)

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

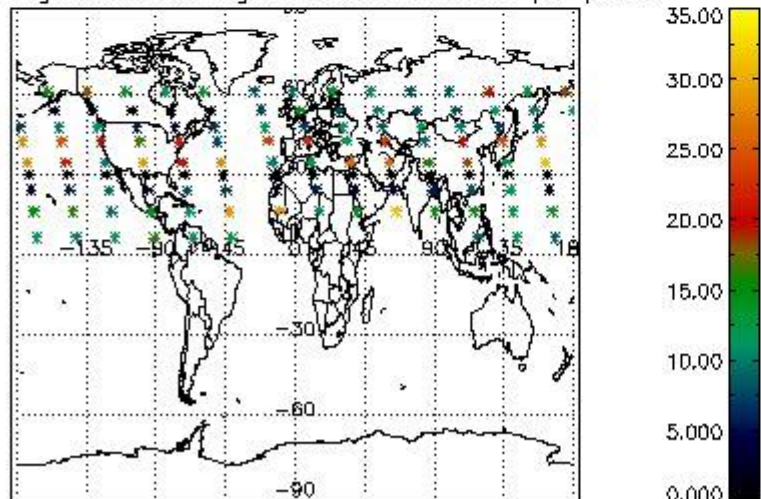
Percentage of cosmic ray hits per profile



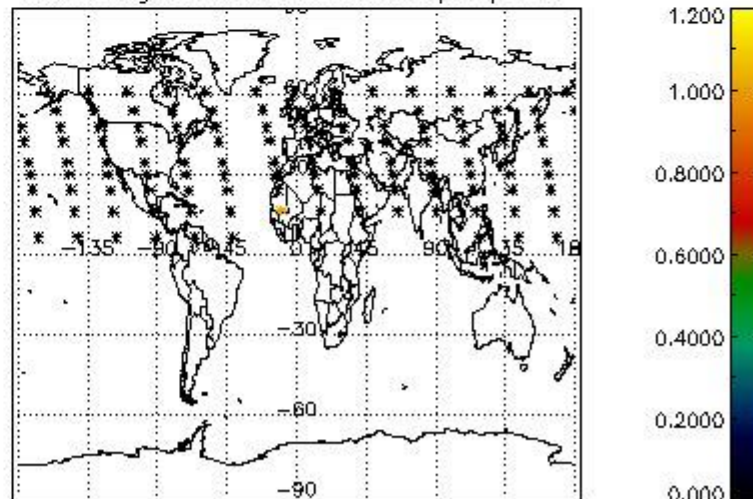
Percentage of datation errors per profile



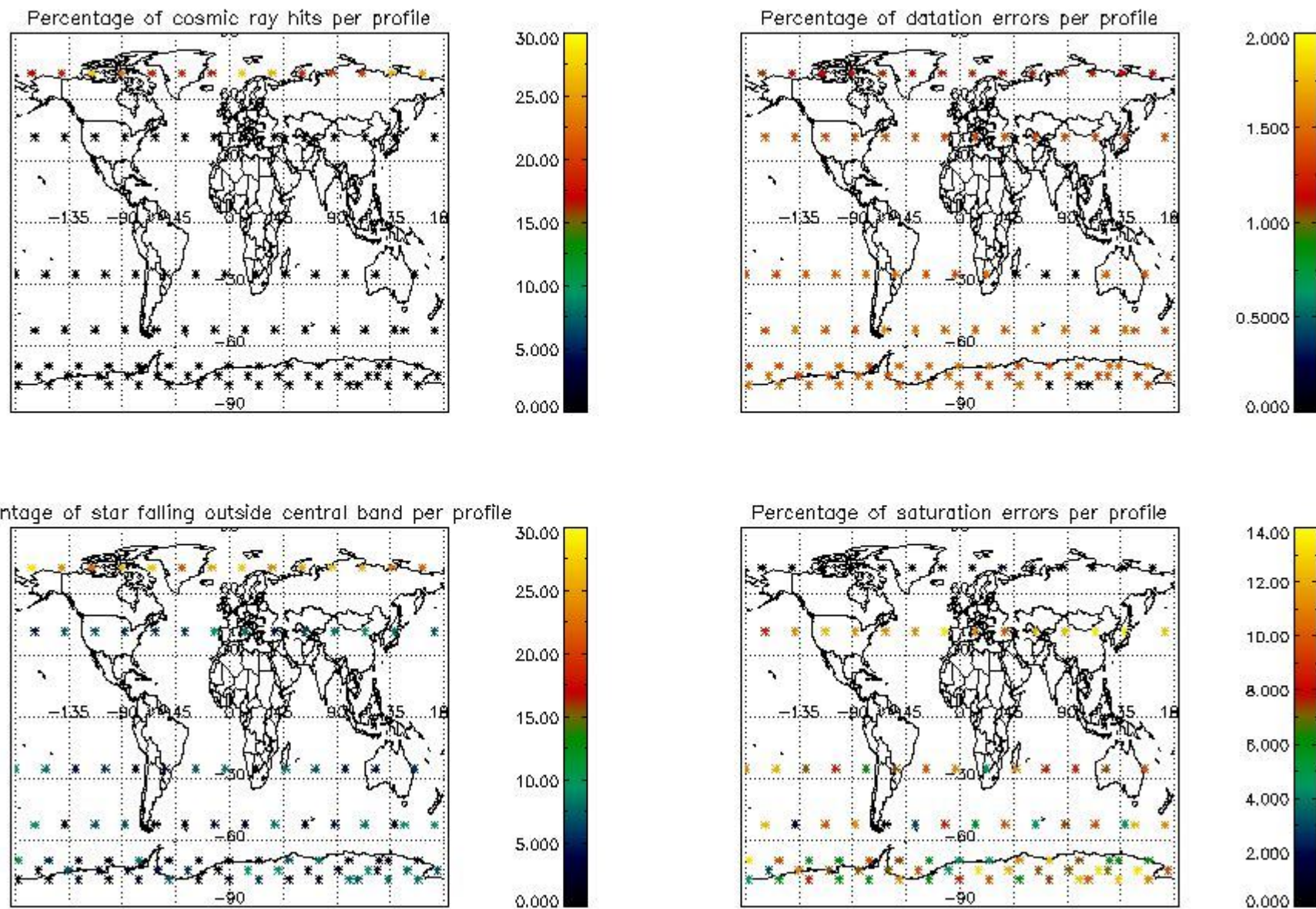
Percentage of star falling outside central band per profile



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

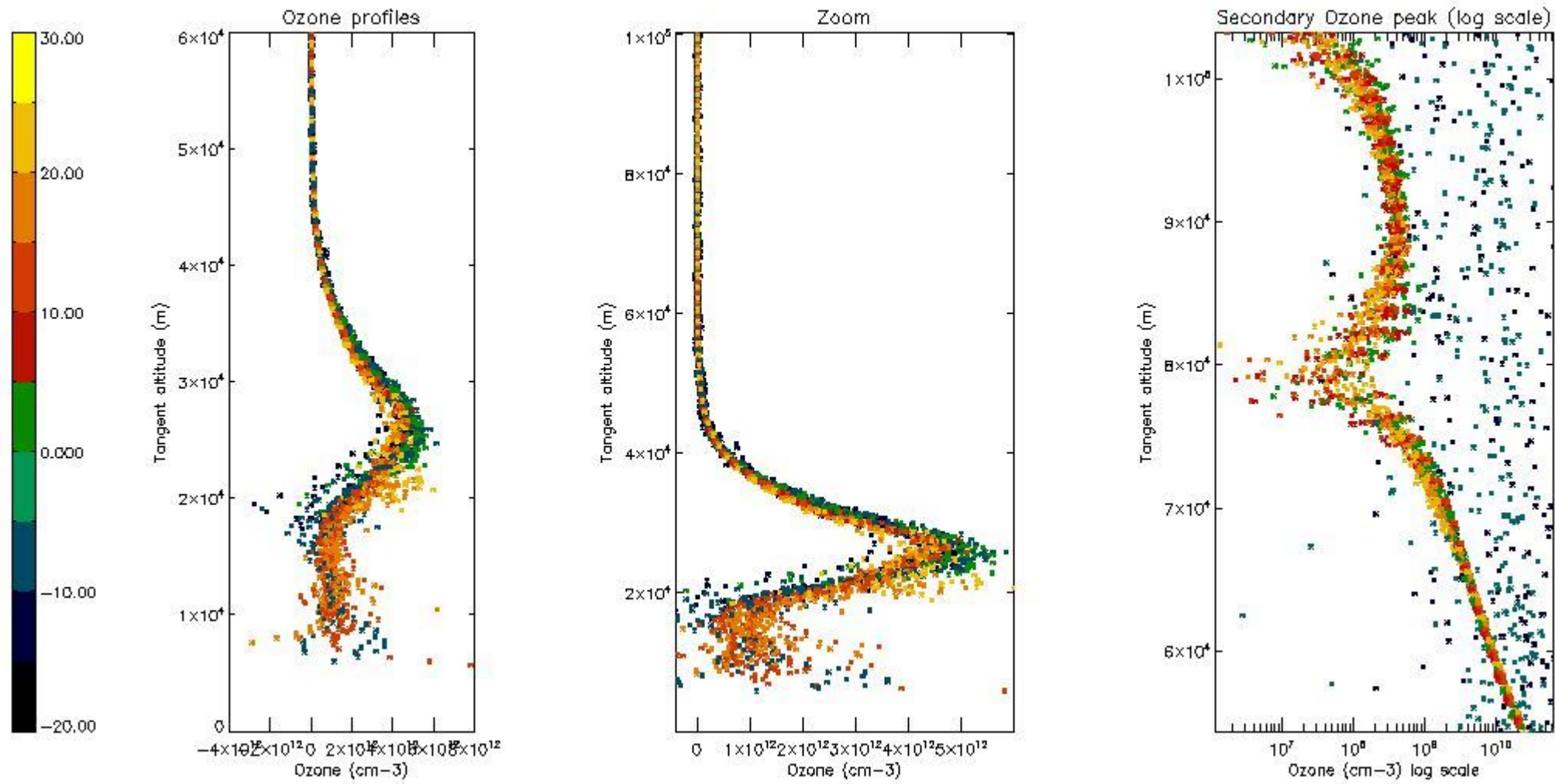
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	44
STD < 20	26

STD < 10	22
STD < 5	15

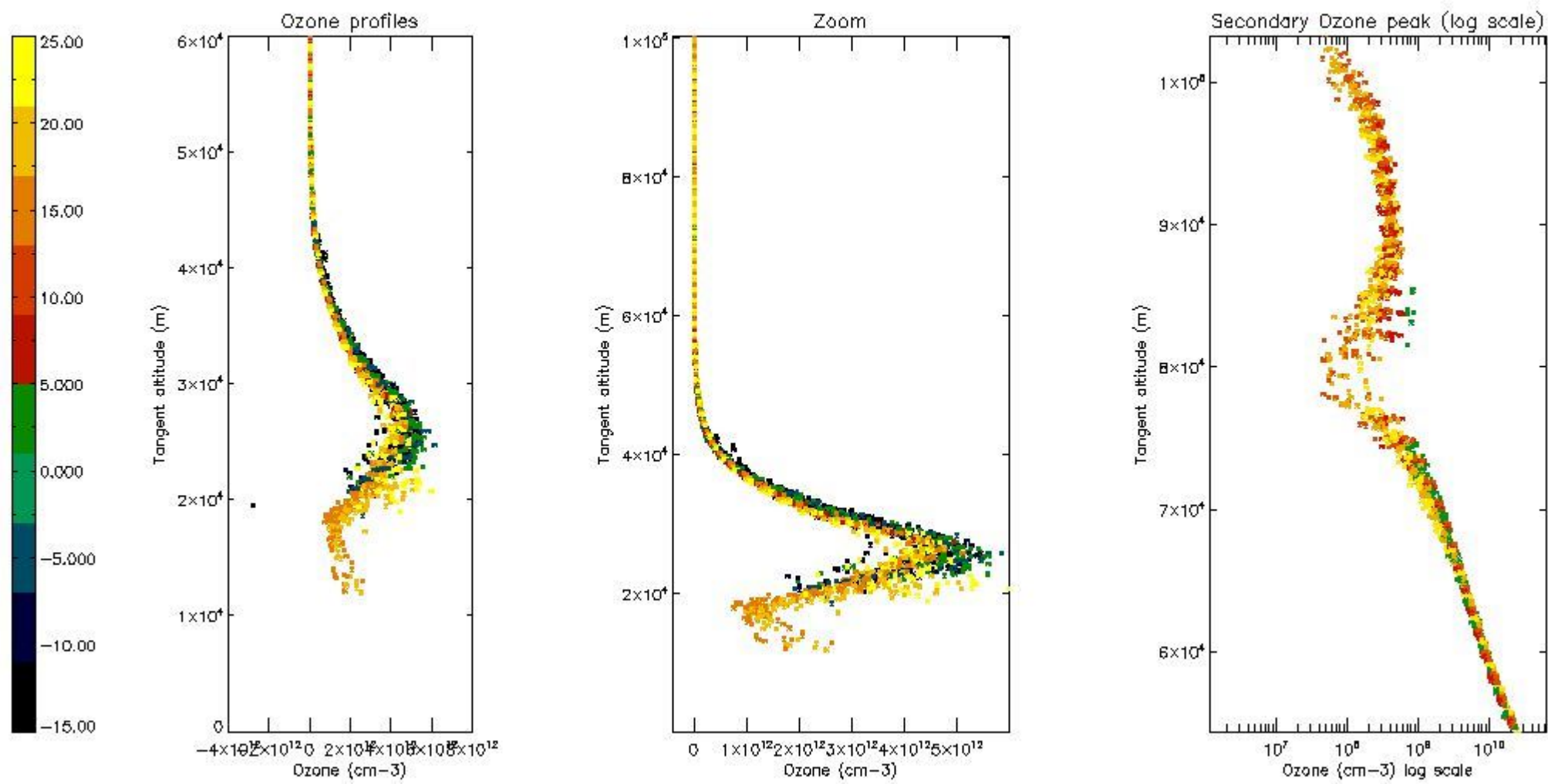
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



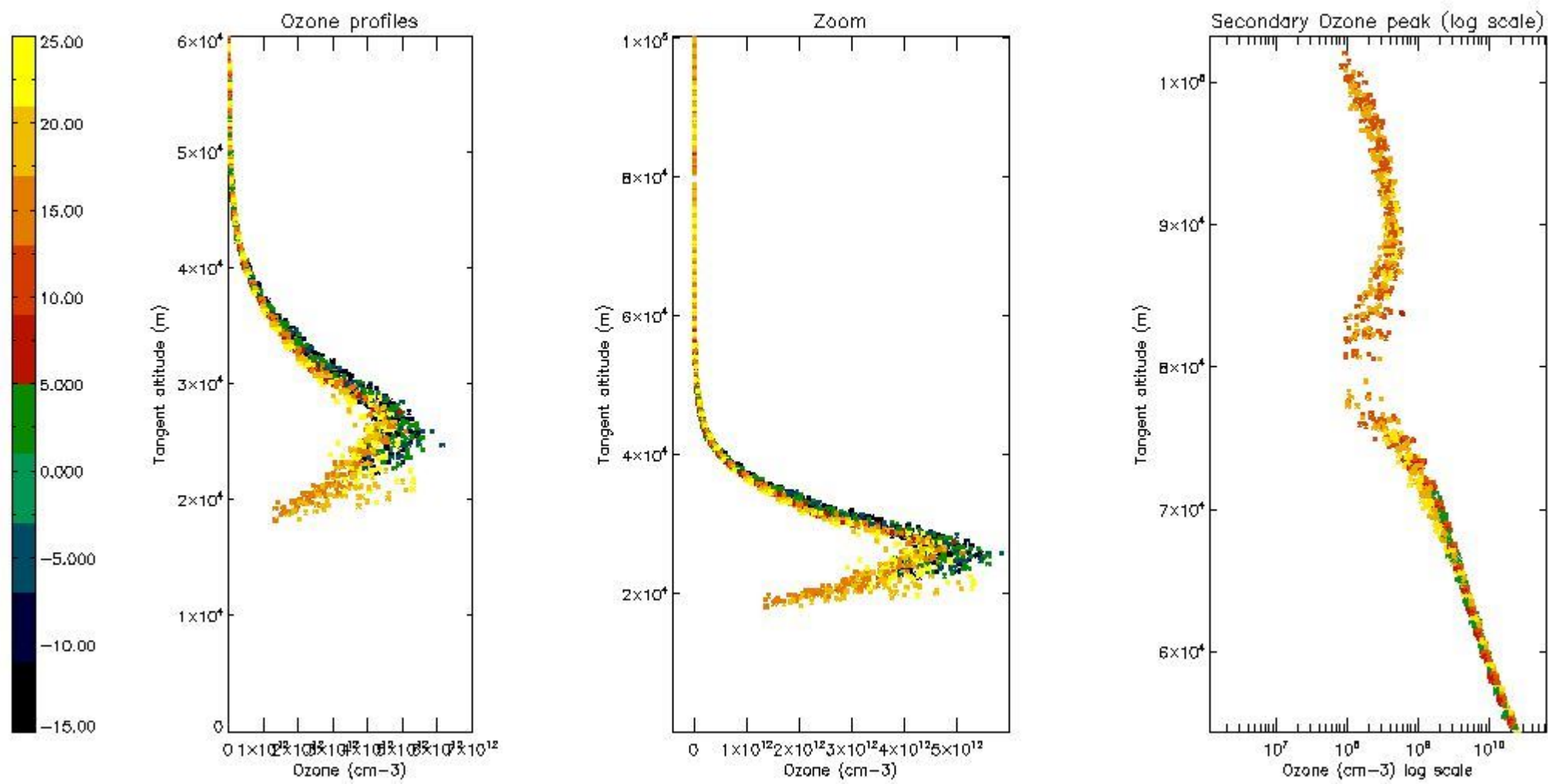
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



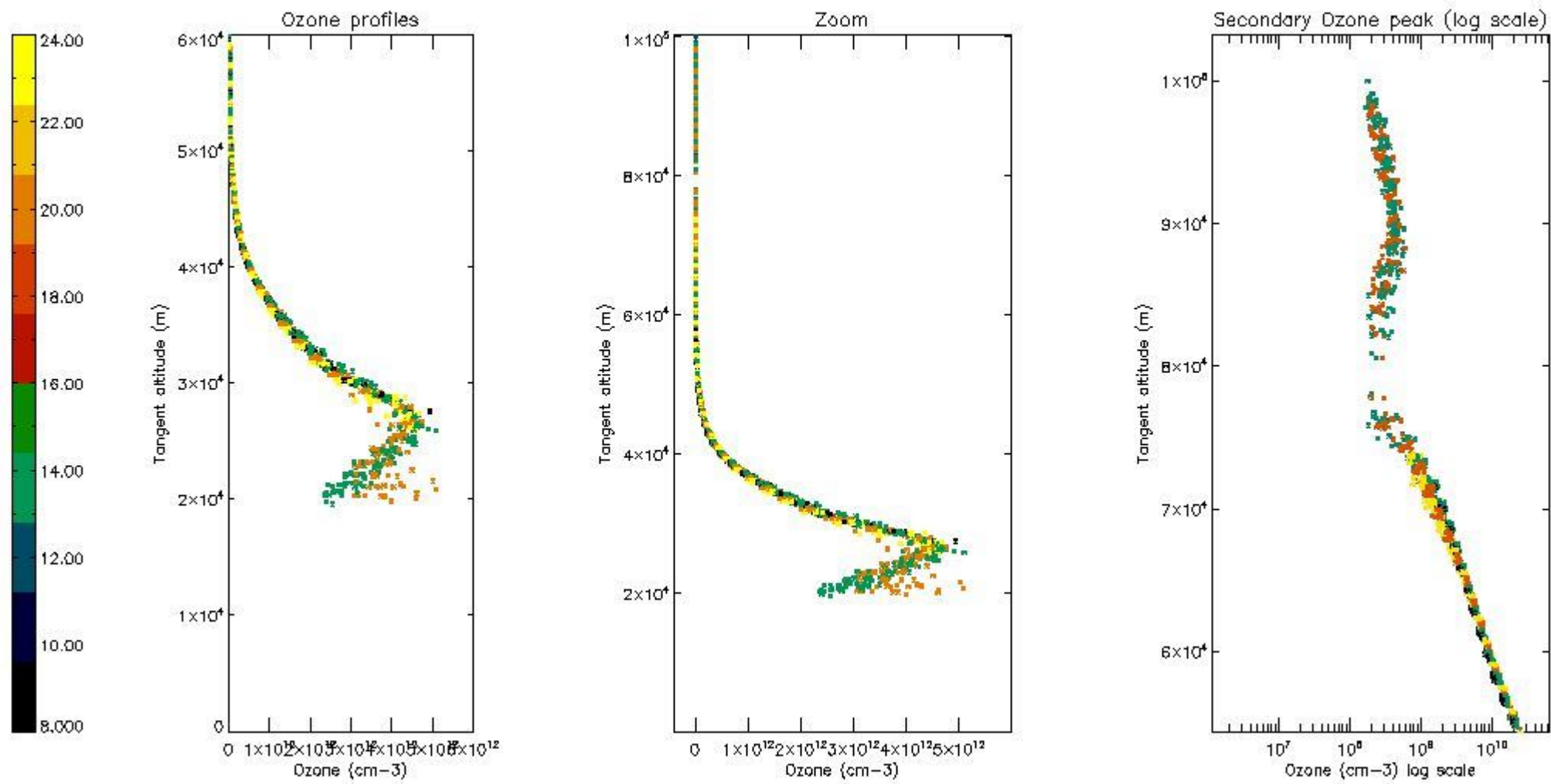
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



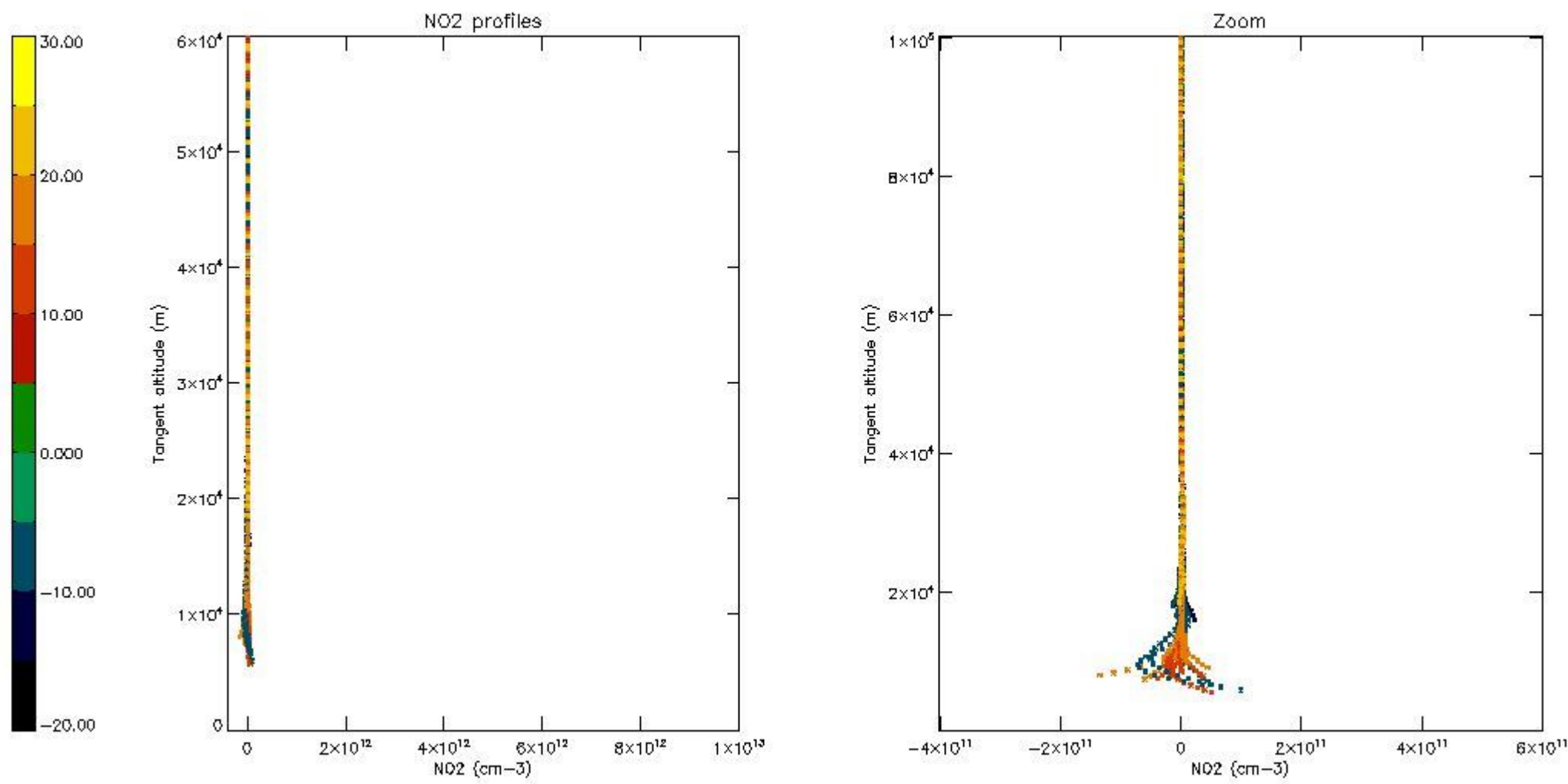
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



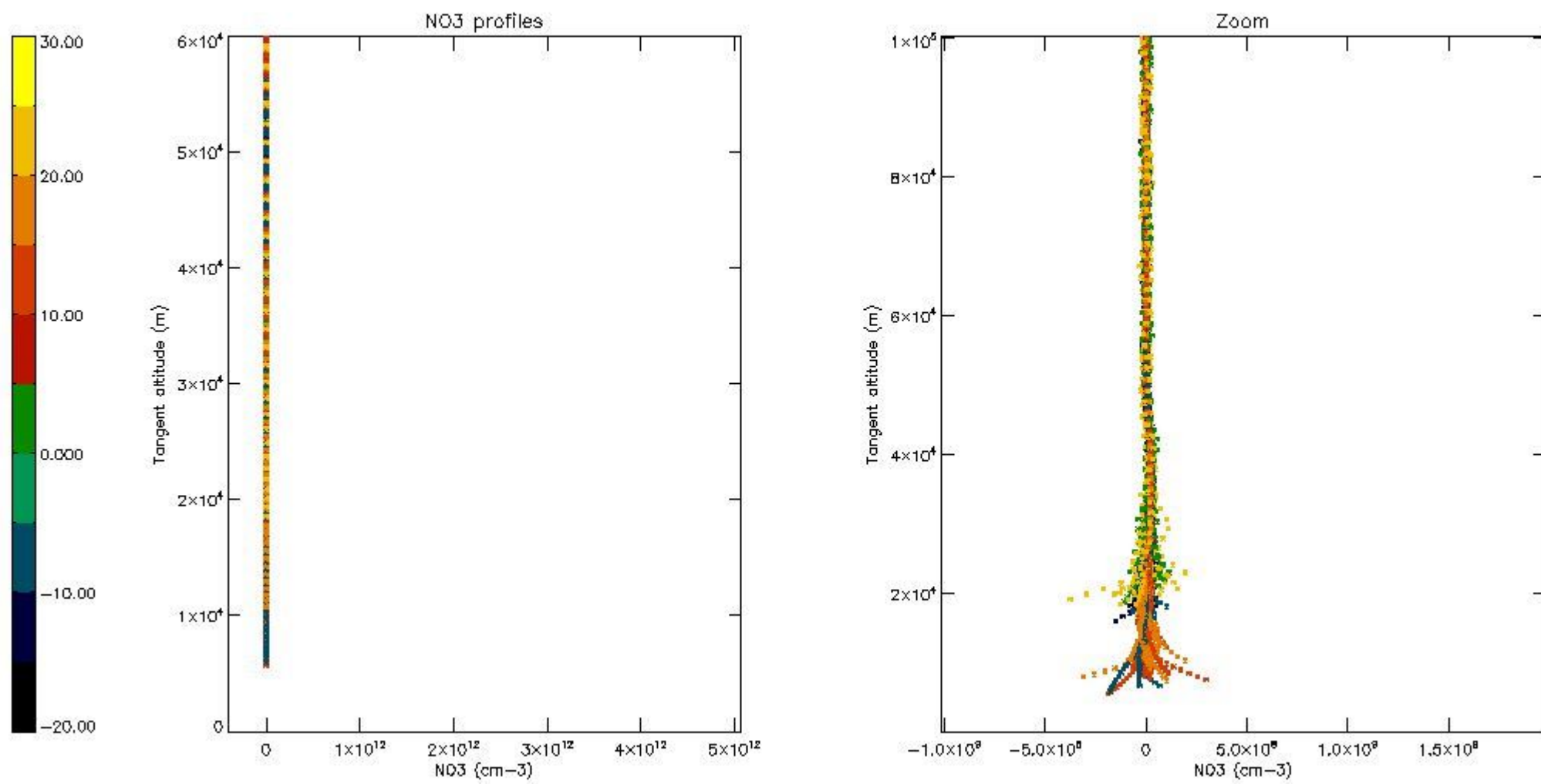
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



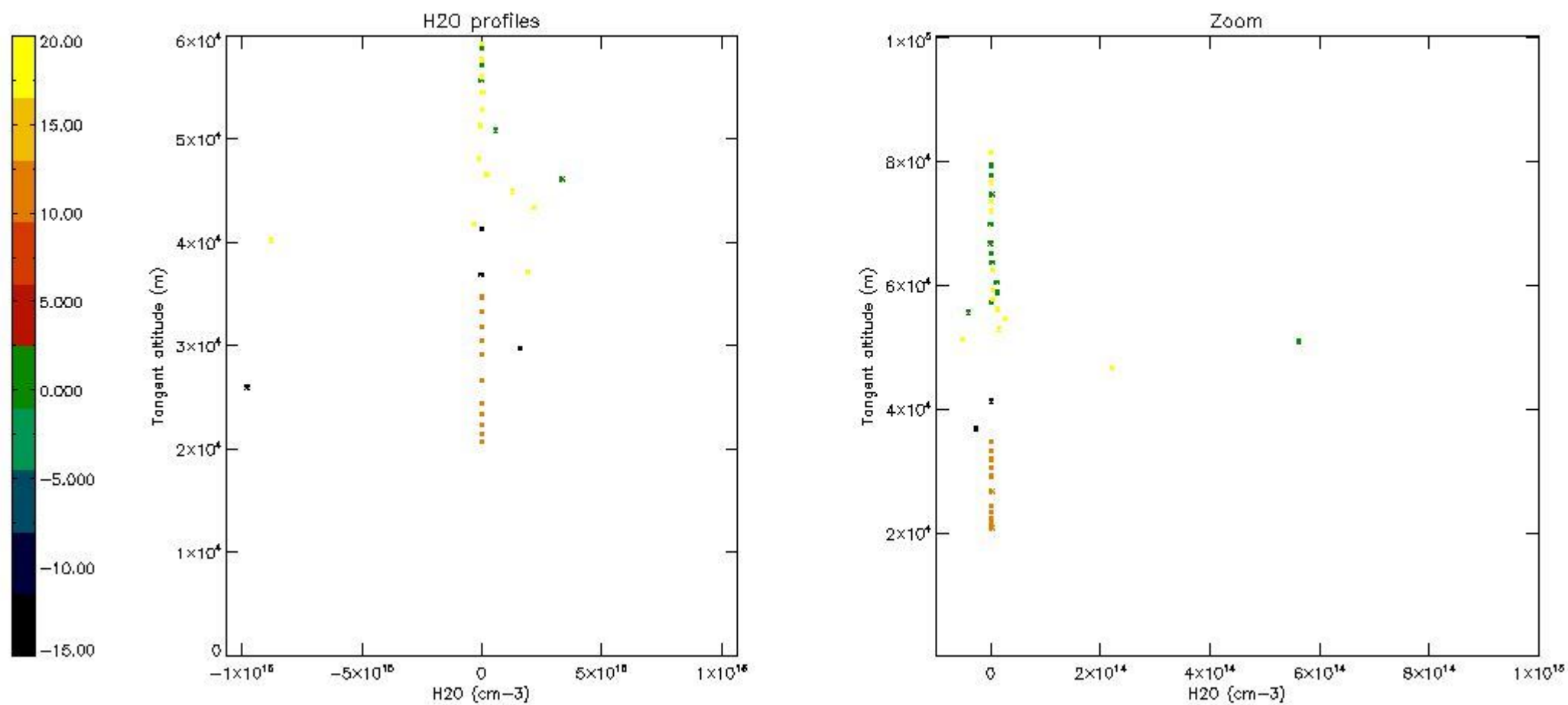
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

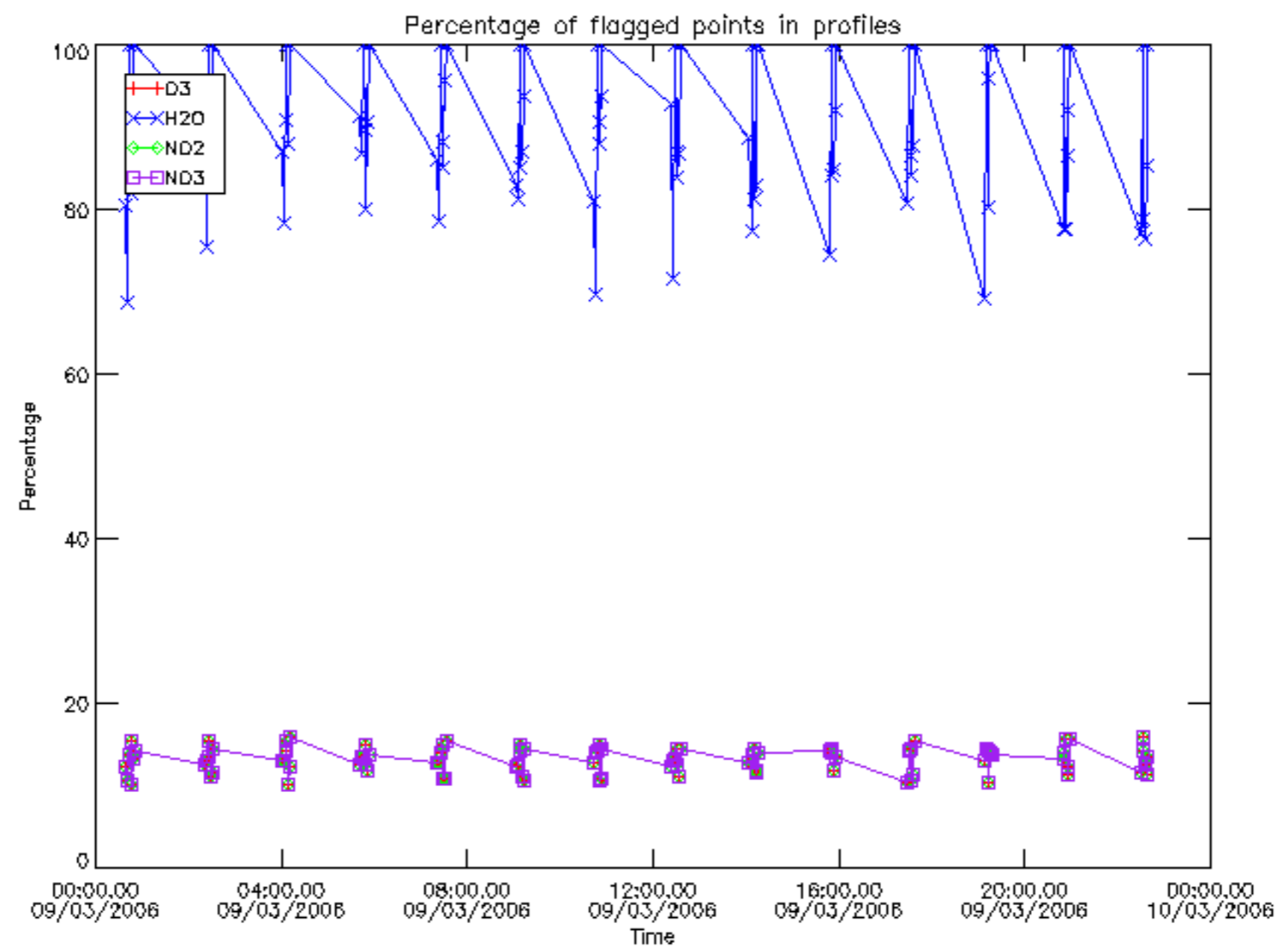
The colorbar represents the latitude.



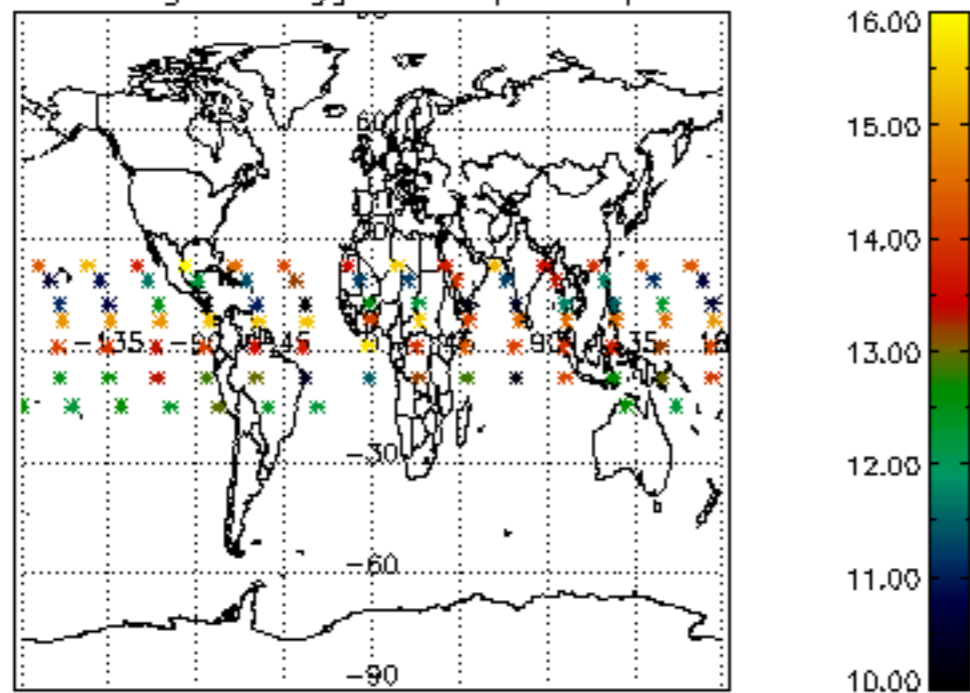
6. Auxiliary Data Files used for the production reported in section 2

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

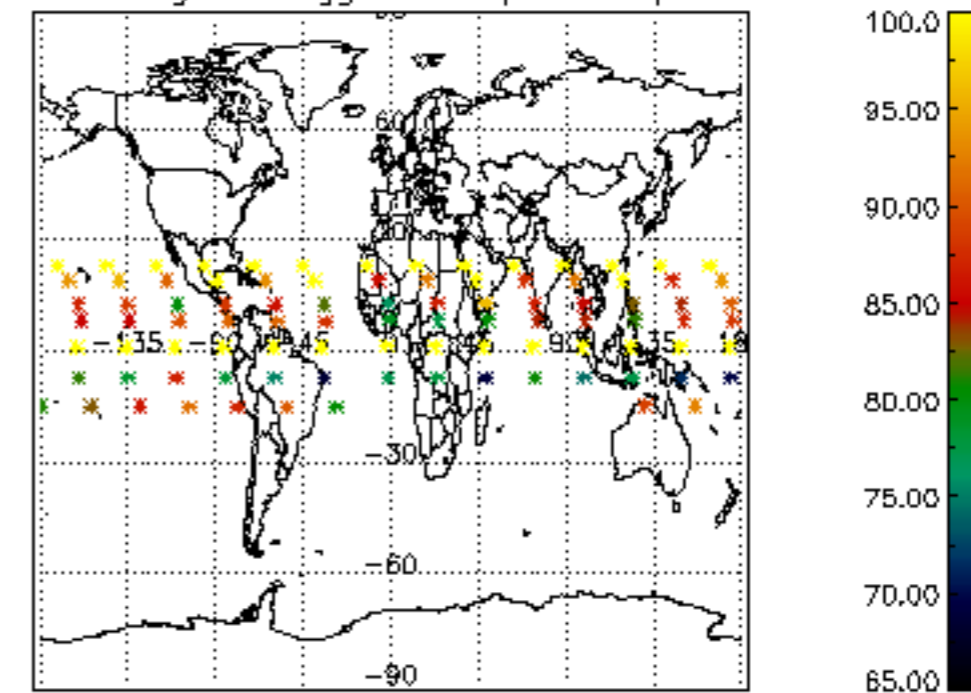
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-MAR-2006 00:01:55
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-MAR-2006 00:01:55
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-MAR-2006 00:01:55



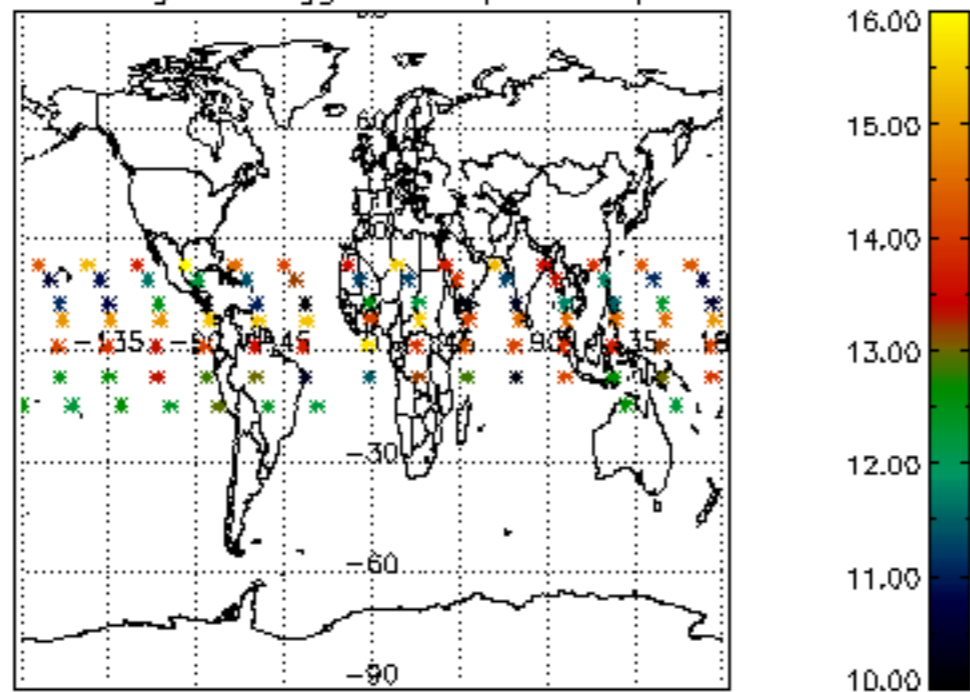
Percentage of flagged data per D3 profile



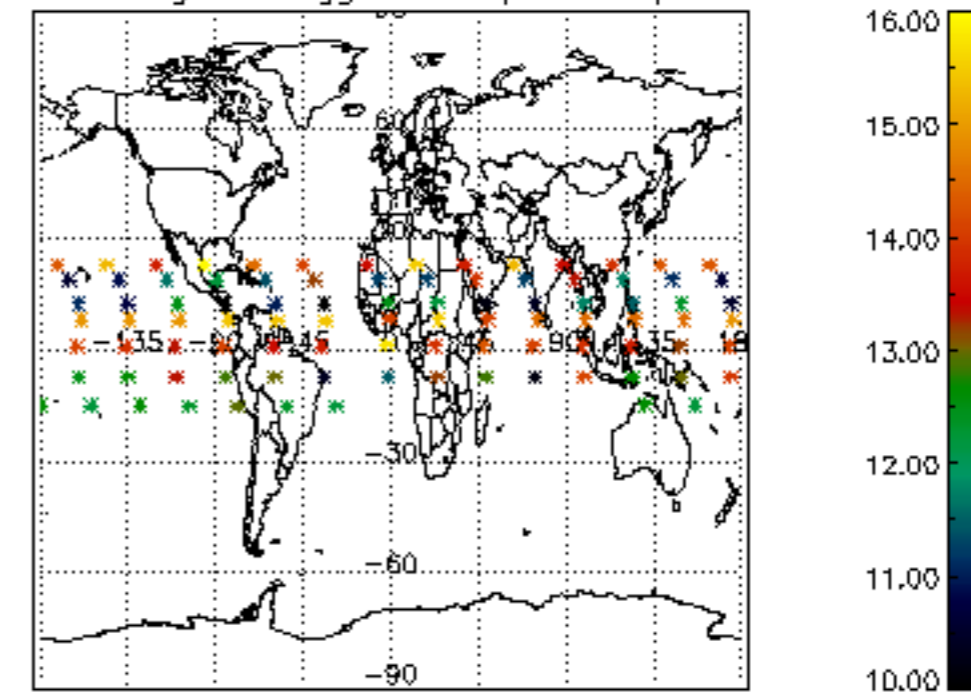
Percentage of flagged data per H2O profile

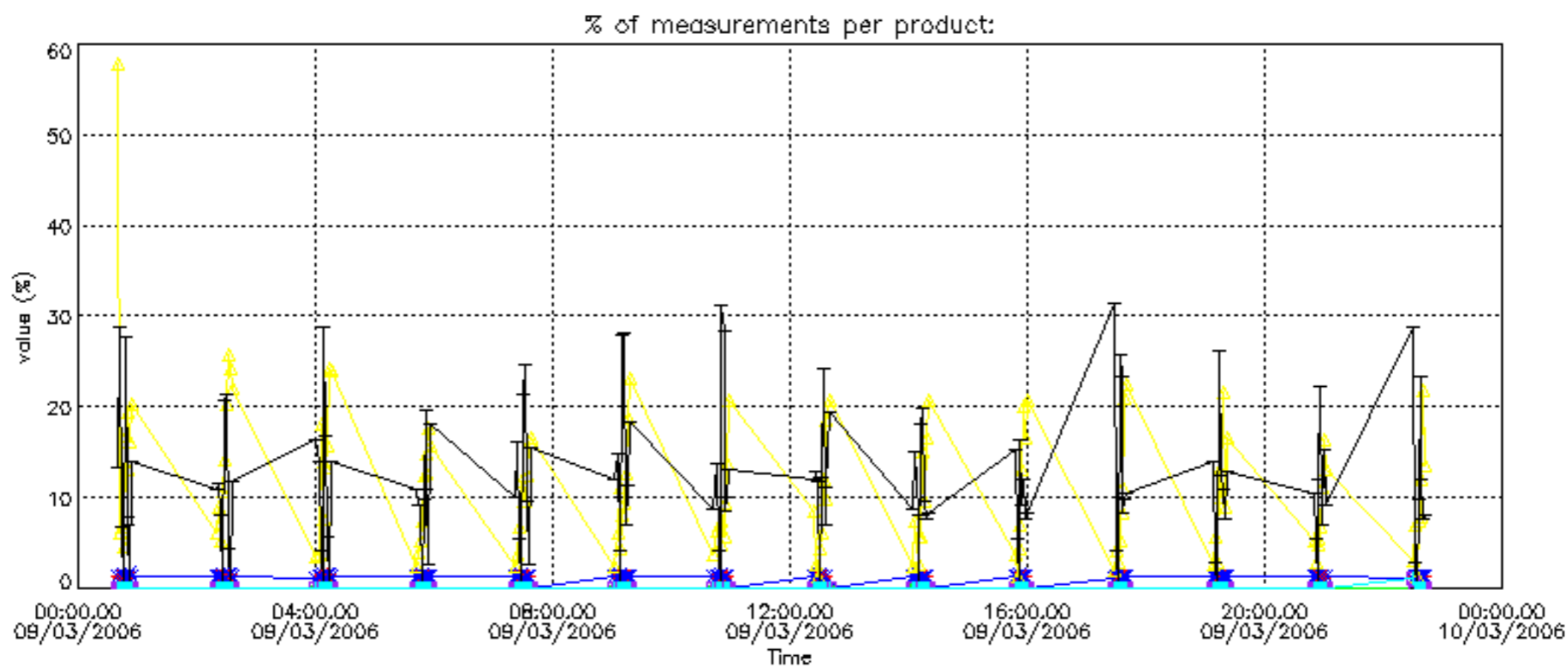


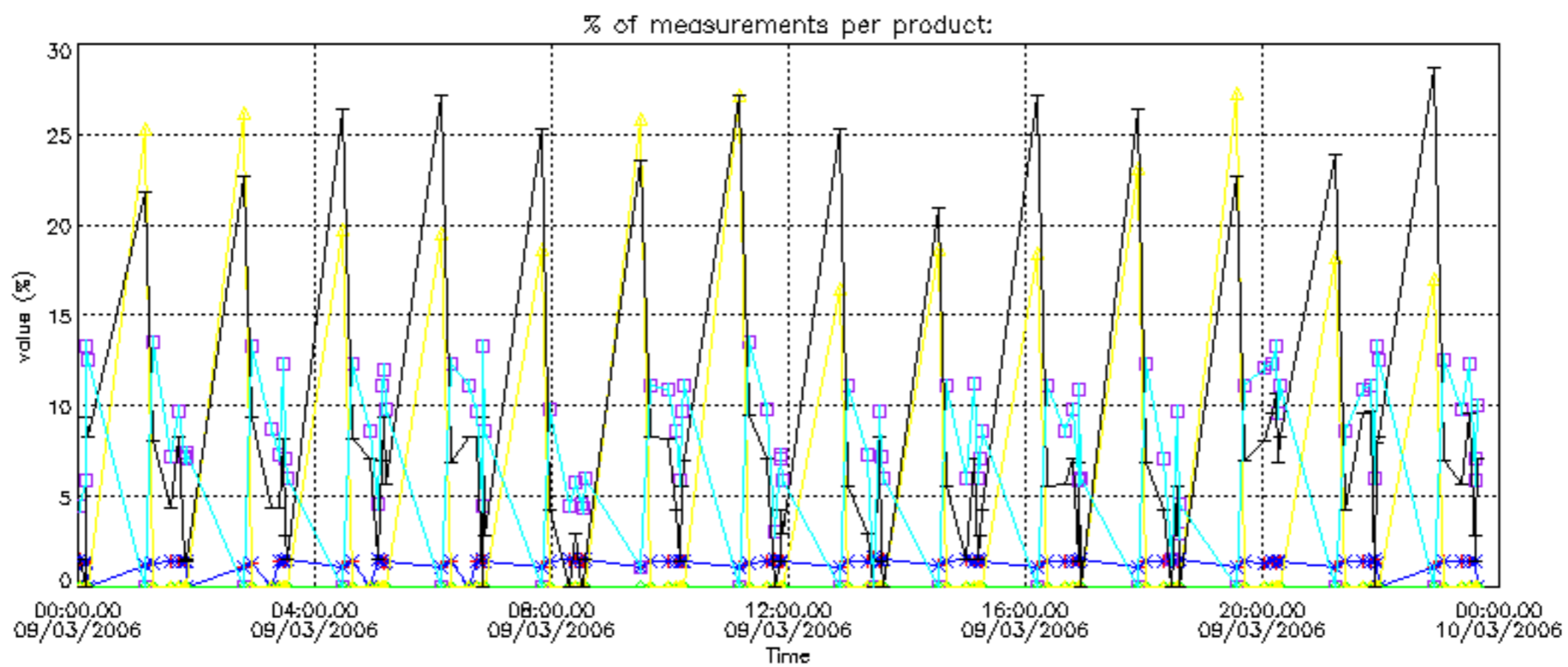
Percentage of flagged data per NO2 profile



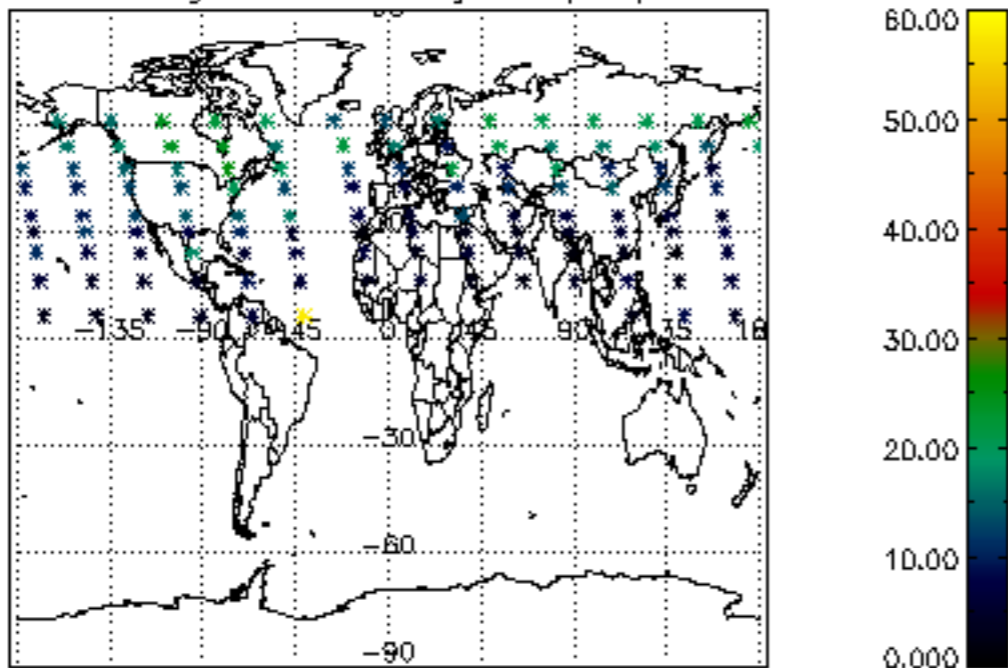
Percentage of flagged data per NO3 profile



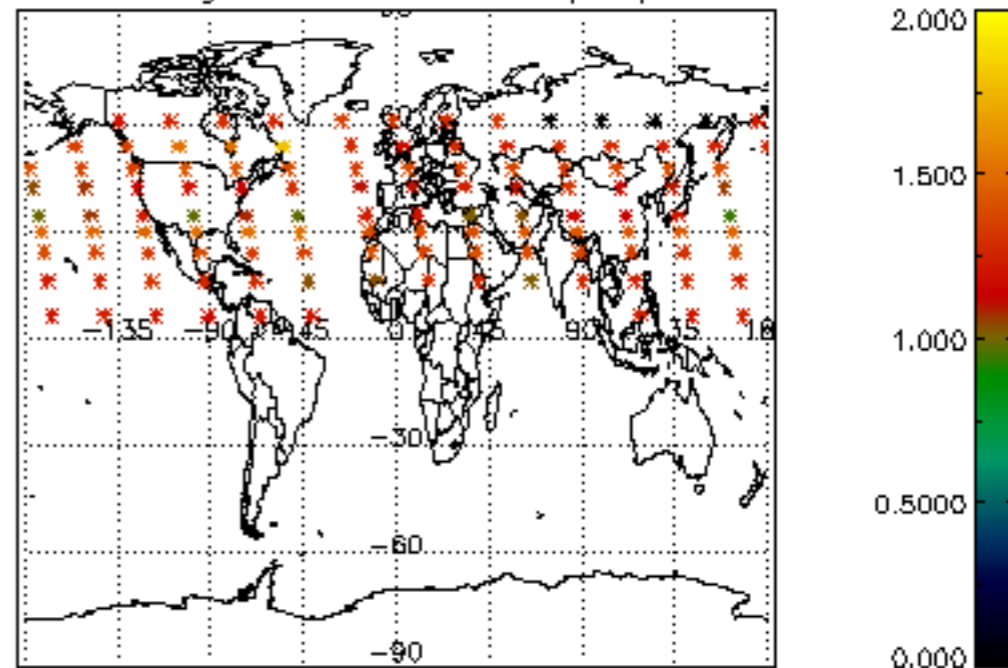




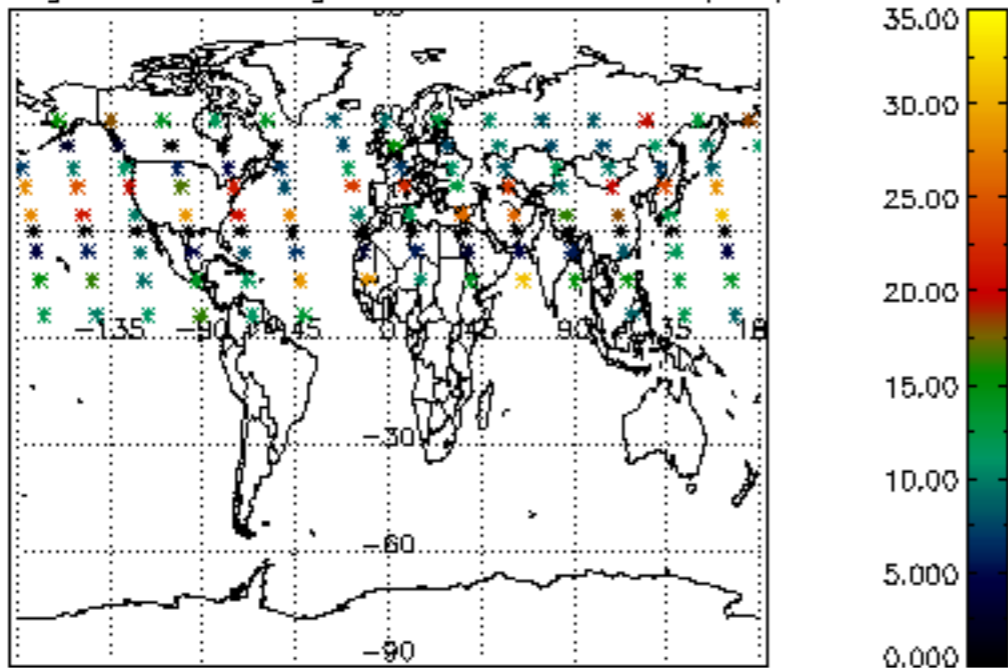
Percentage of cosmic ray hits per profile



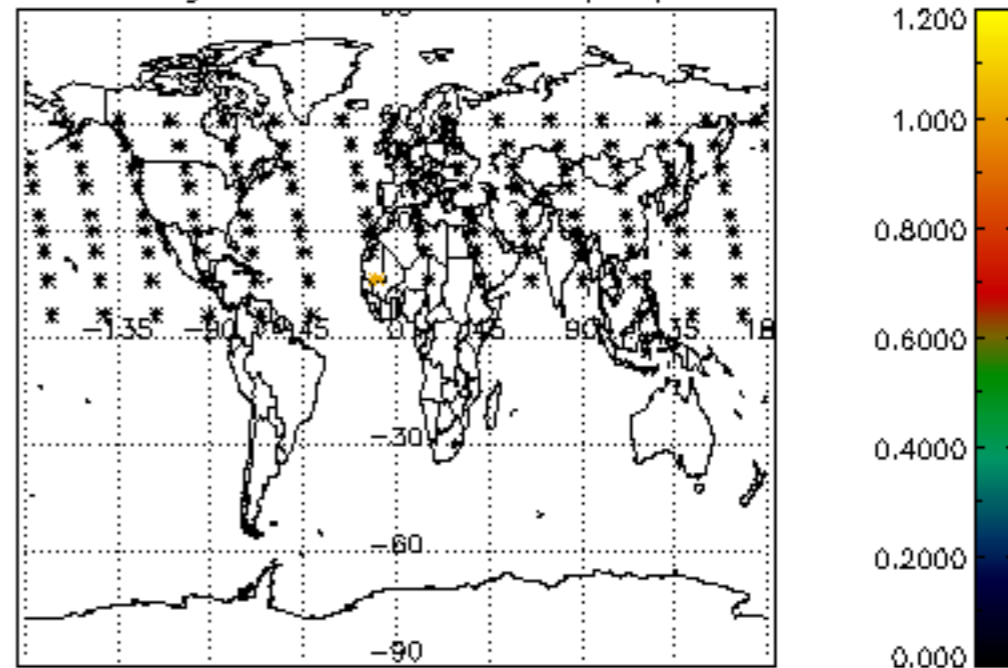
Percentage of datation errors per profile



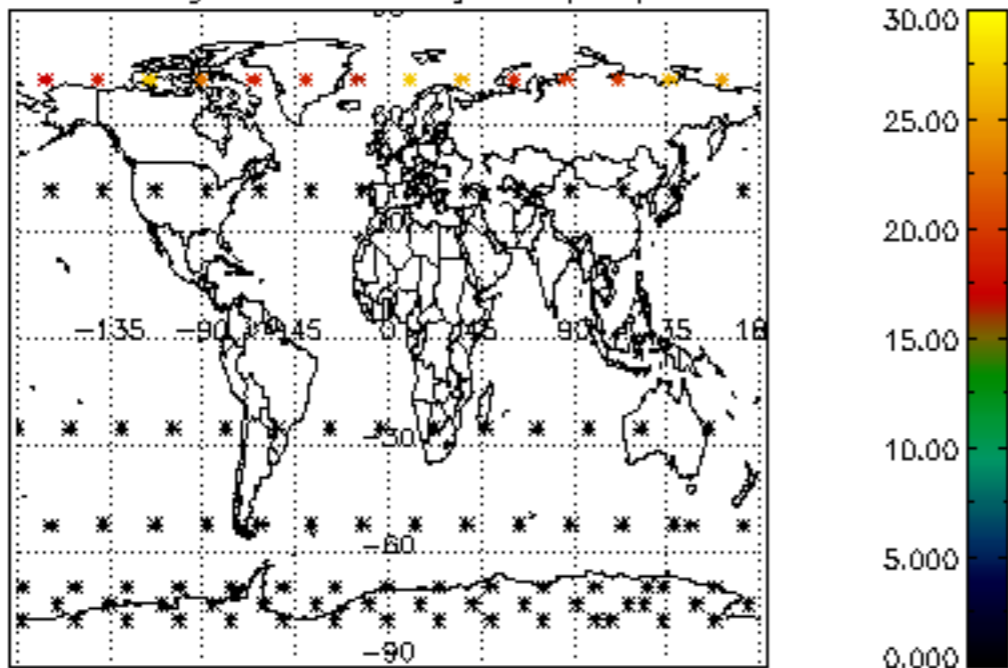
Percentage of star falling outside central band per profile



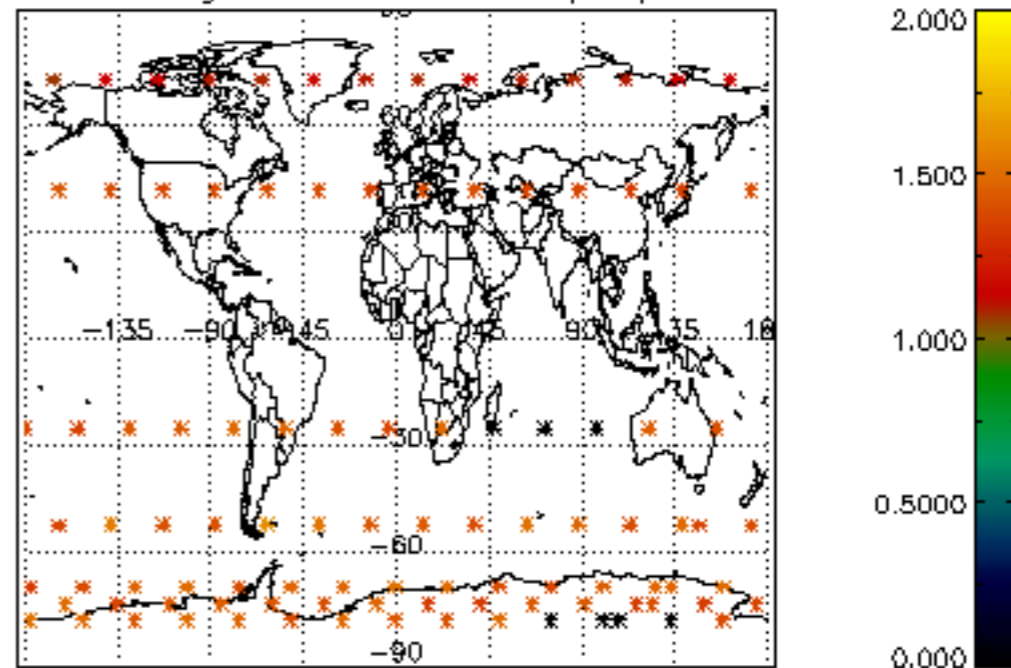
Percentage of saturation errors per profile



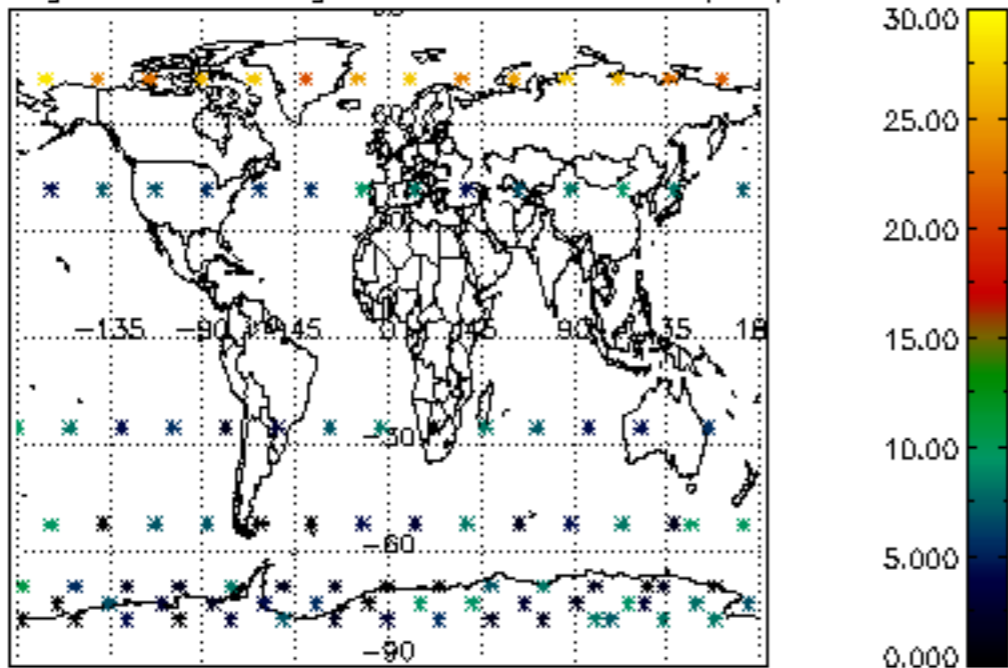
Percentage of cosmic ray hits per profile



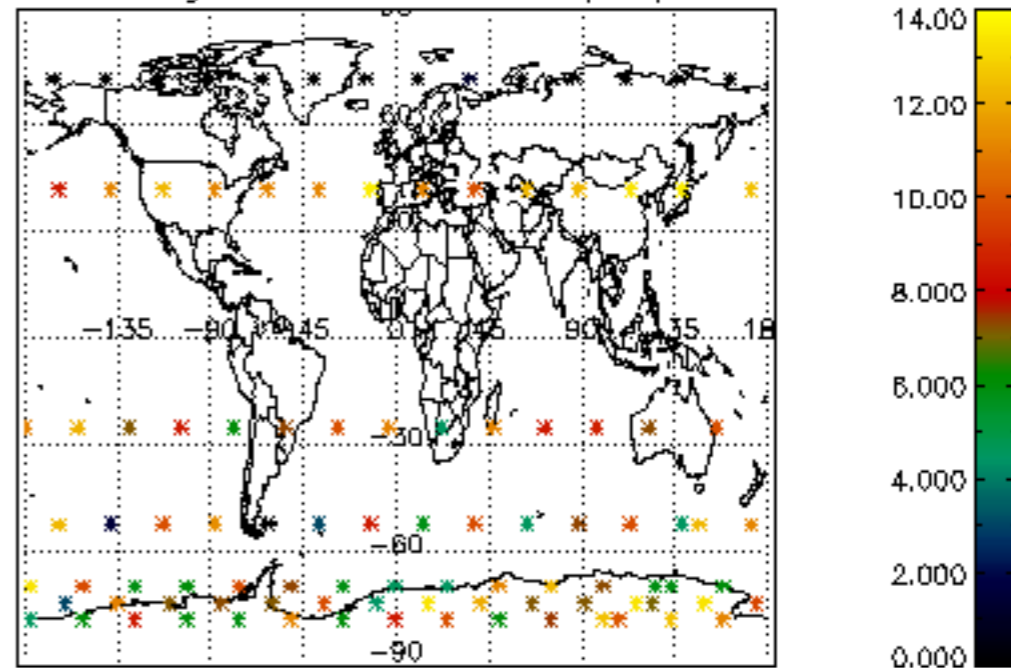
Percentage of datation errors per profile

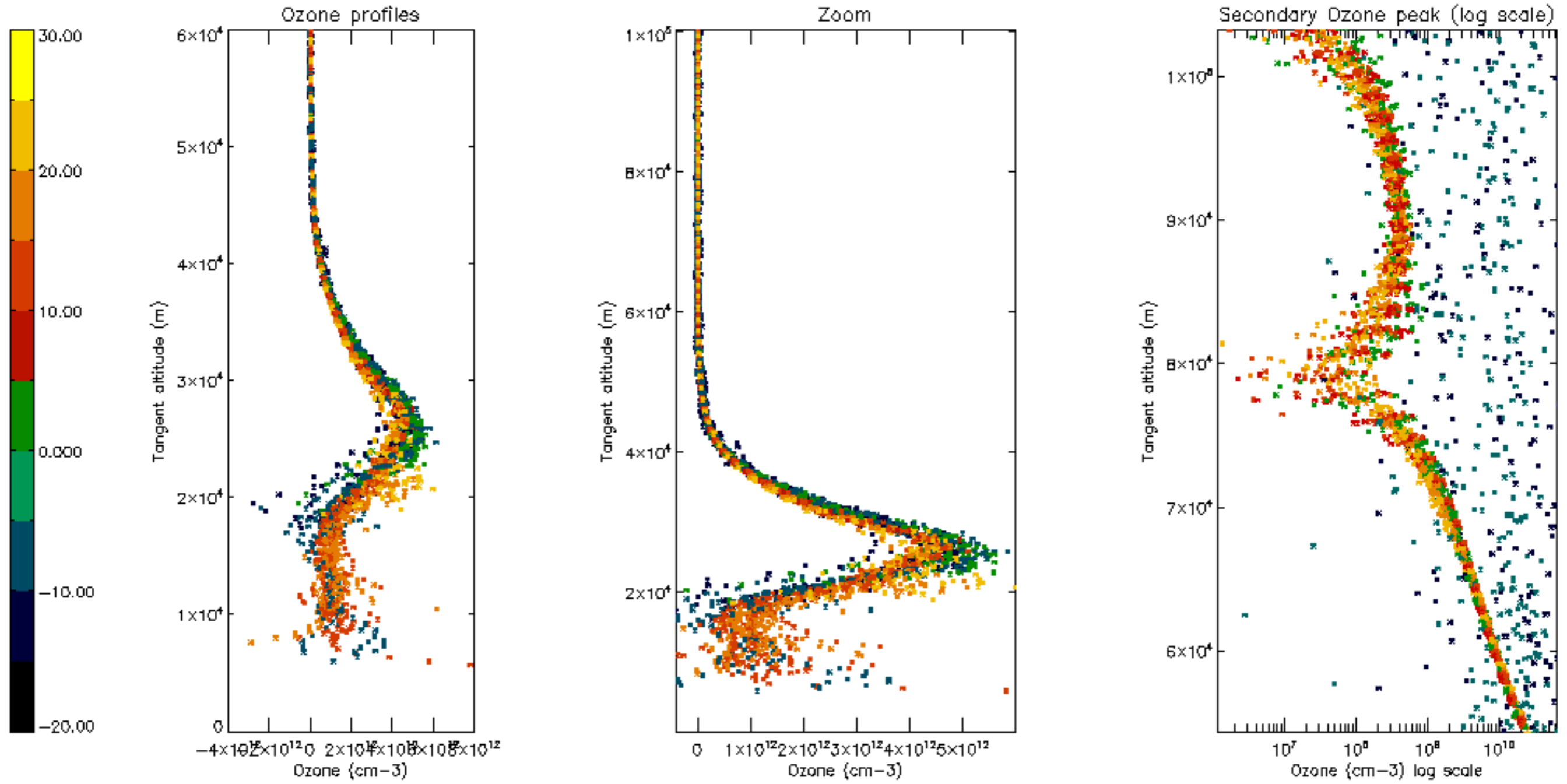


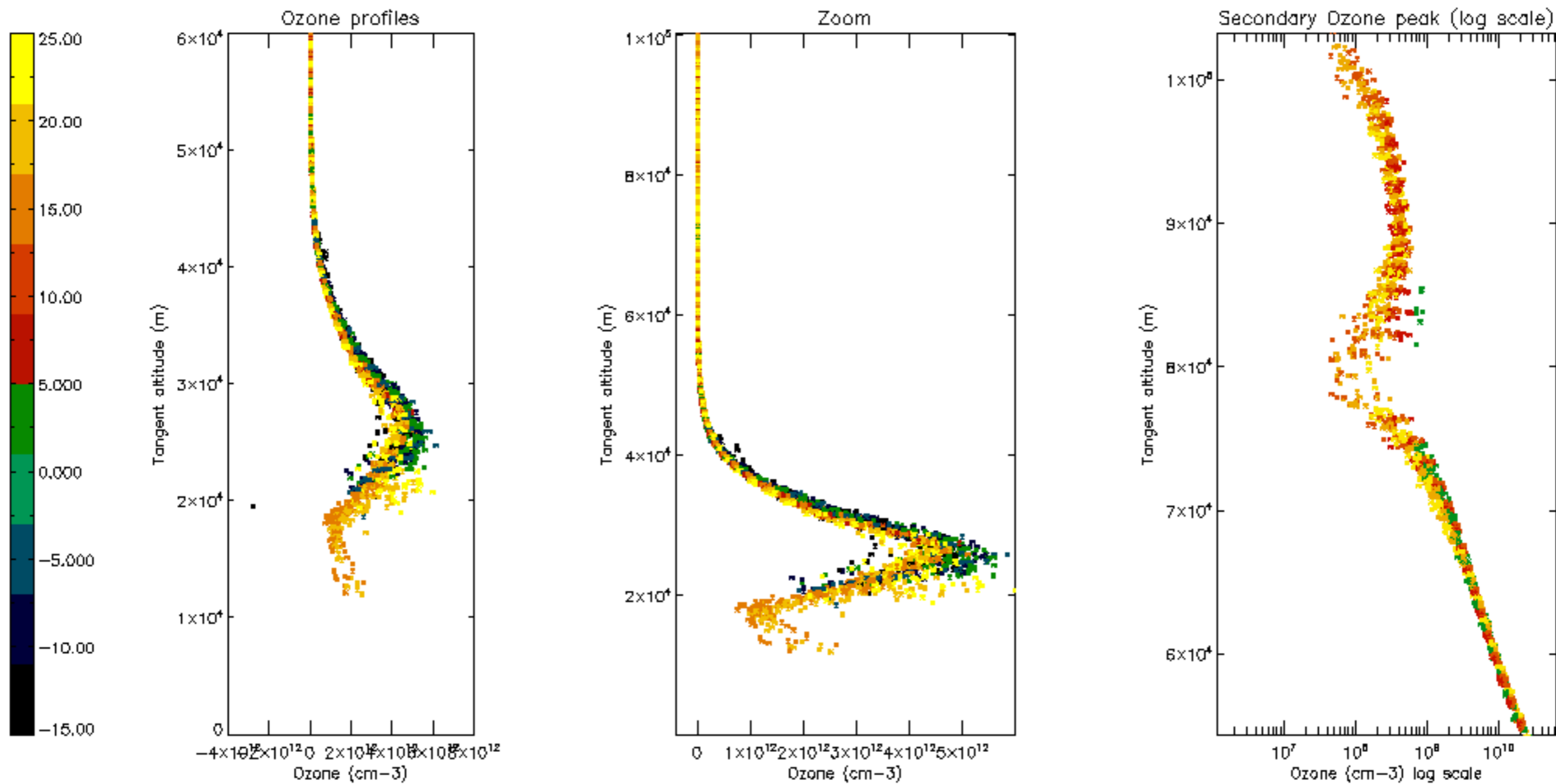
Percentage of star falling outside central band per profile

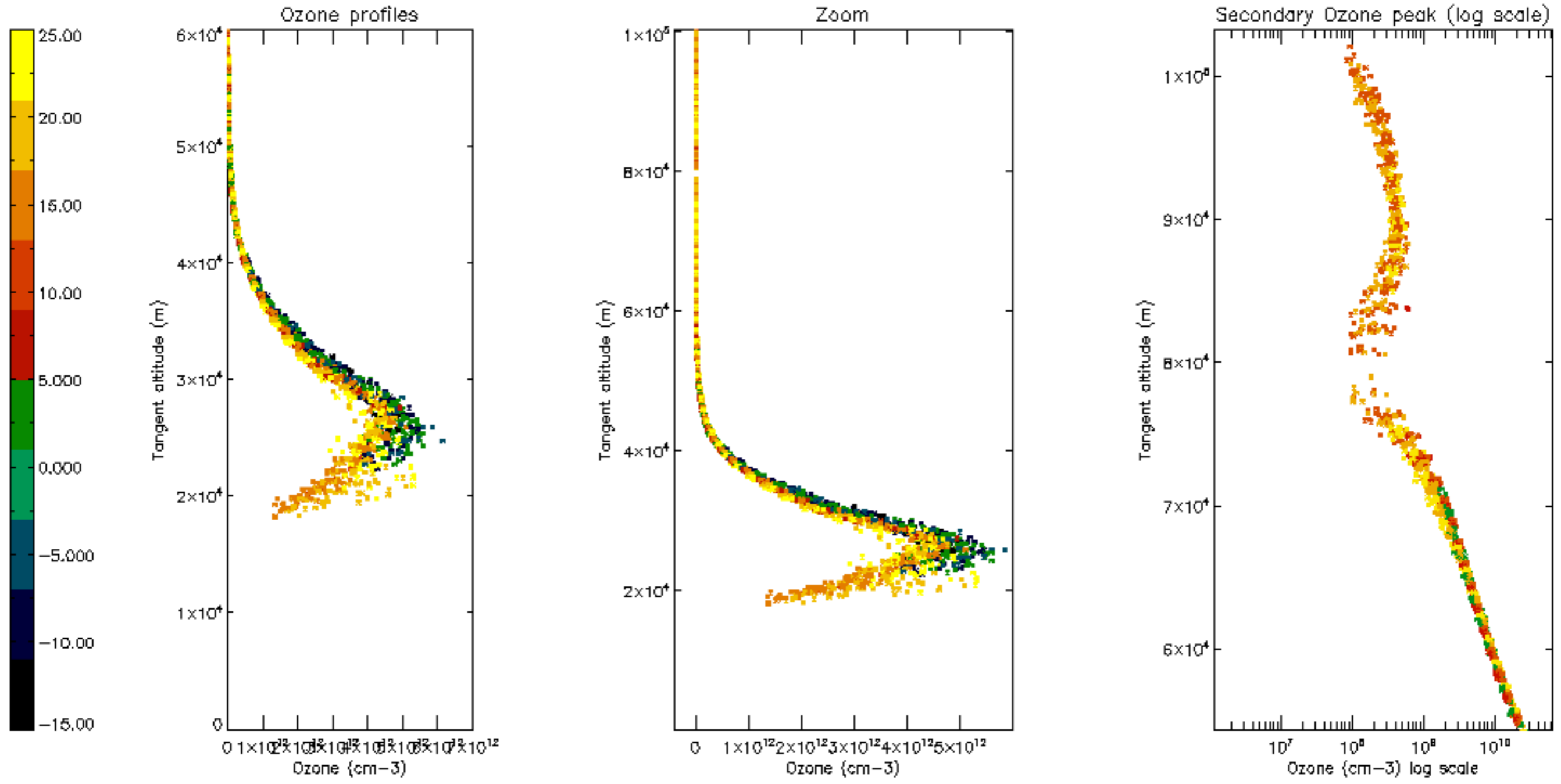


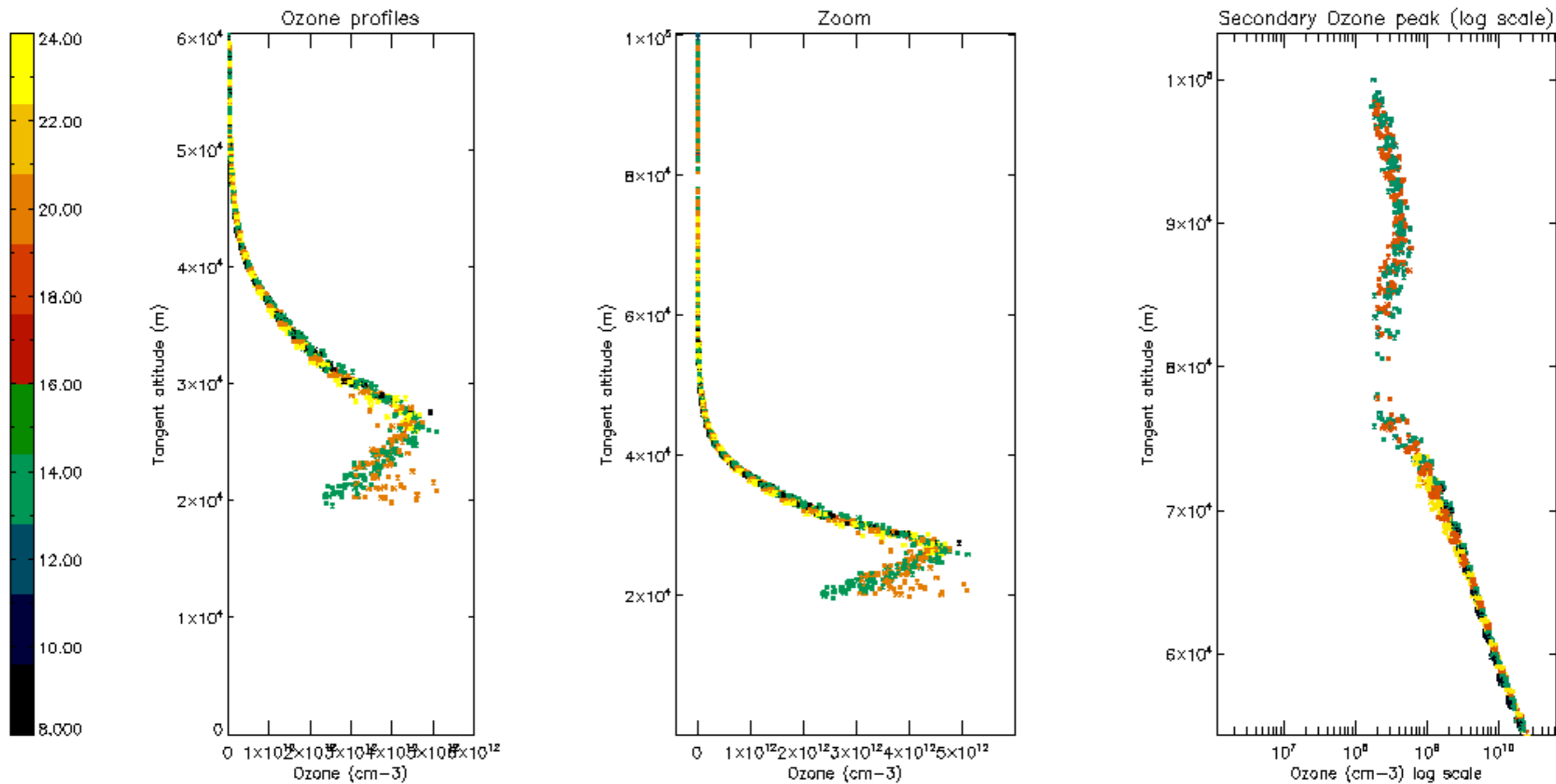
Percentage of saturation errors per profile

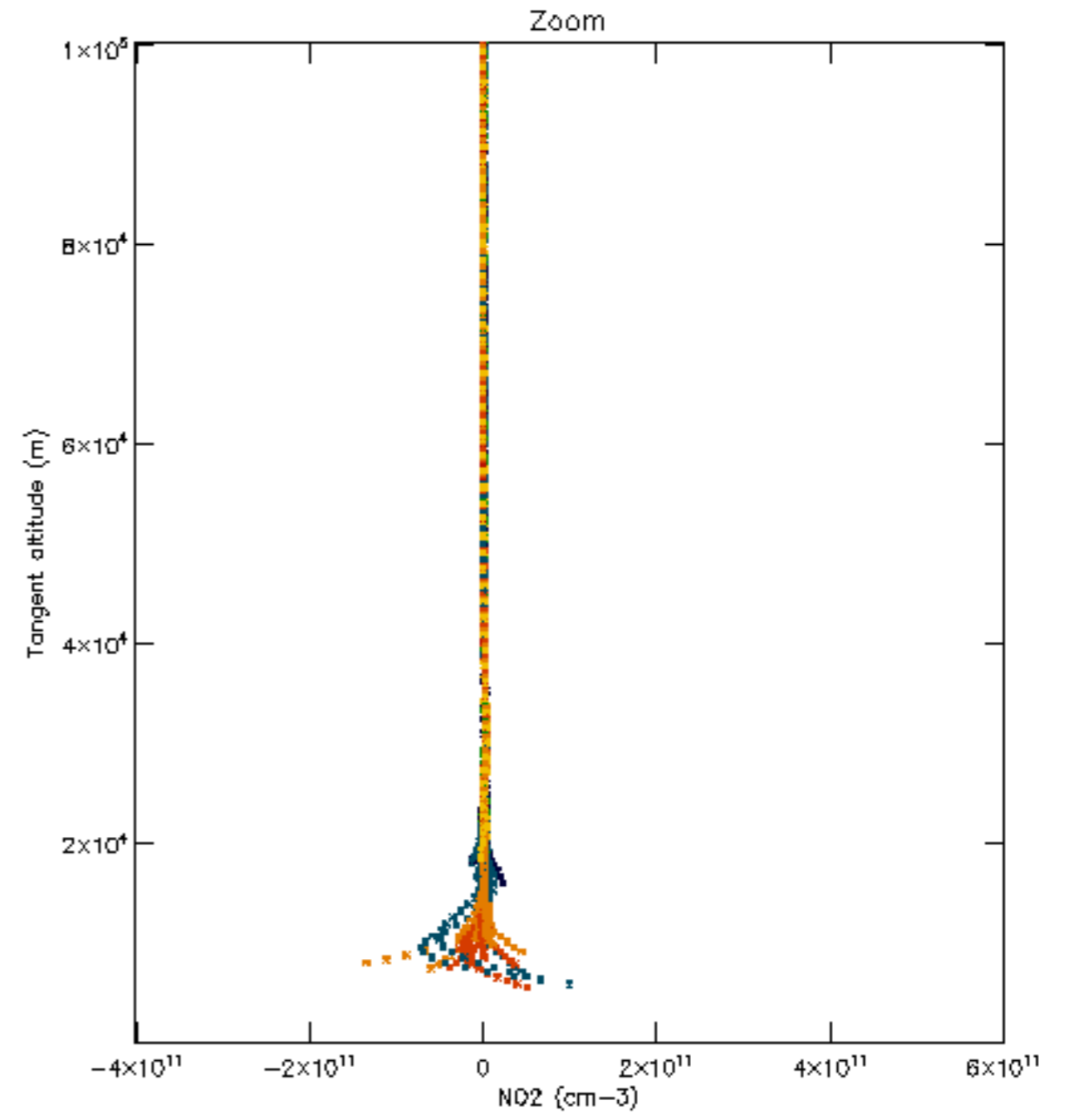
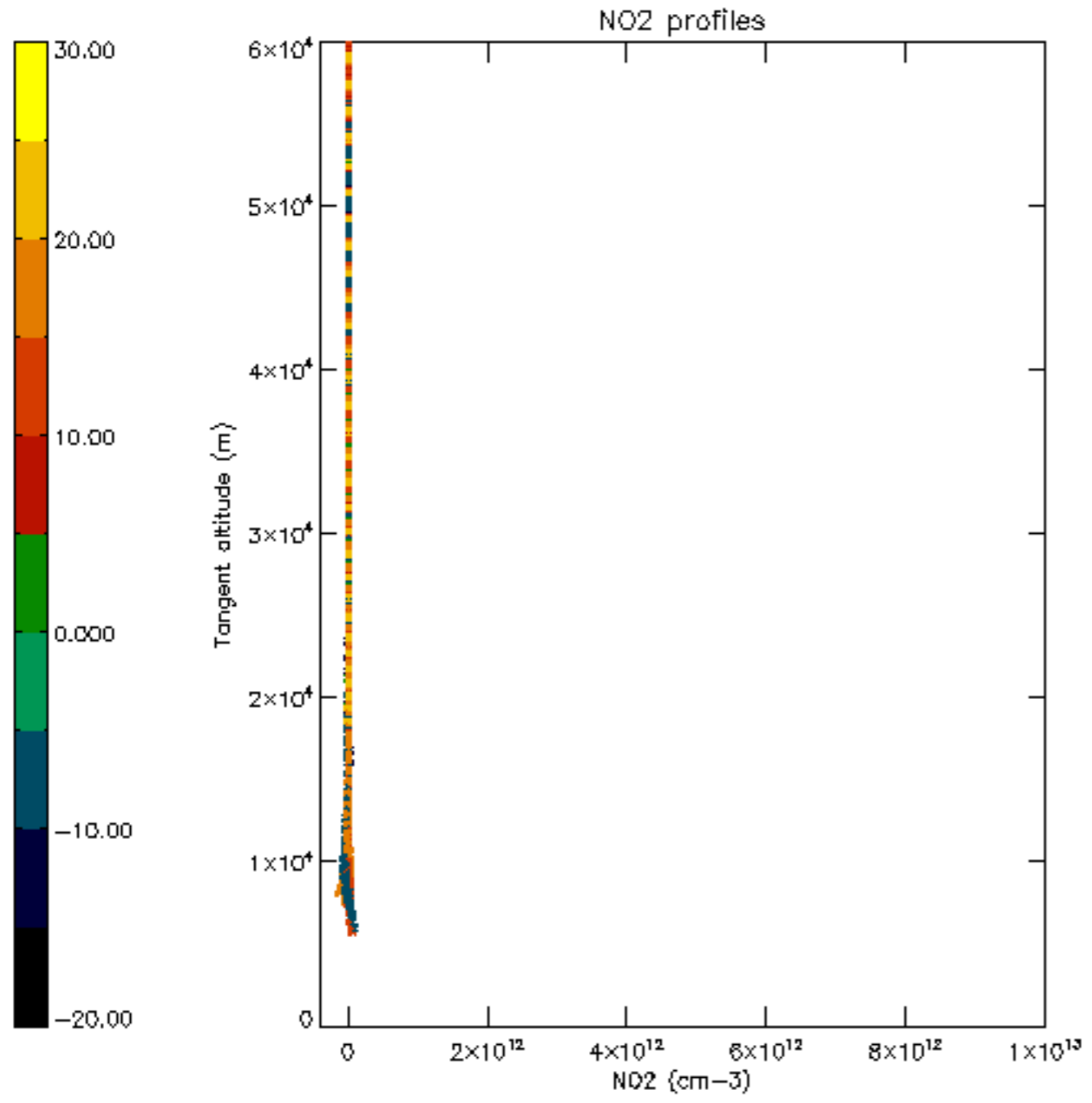


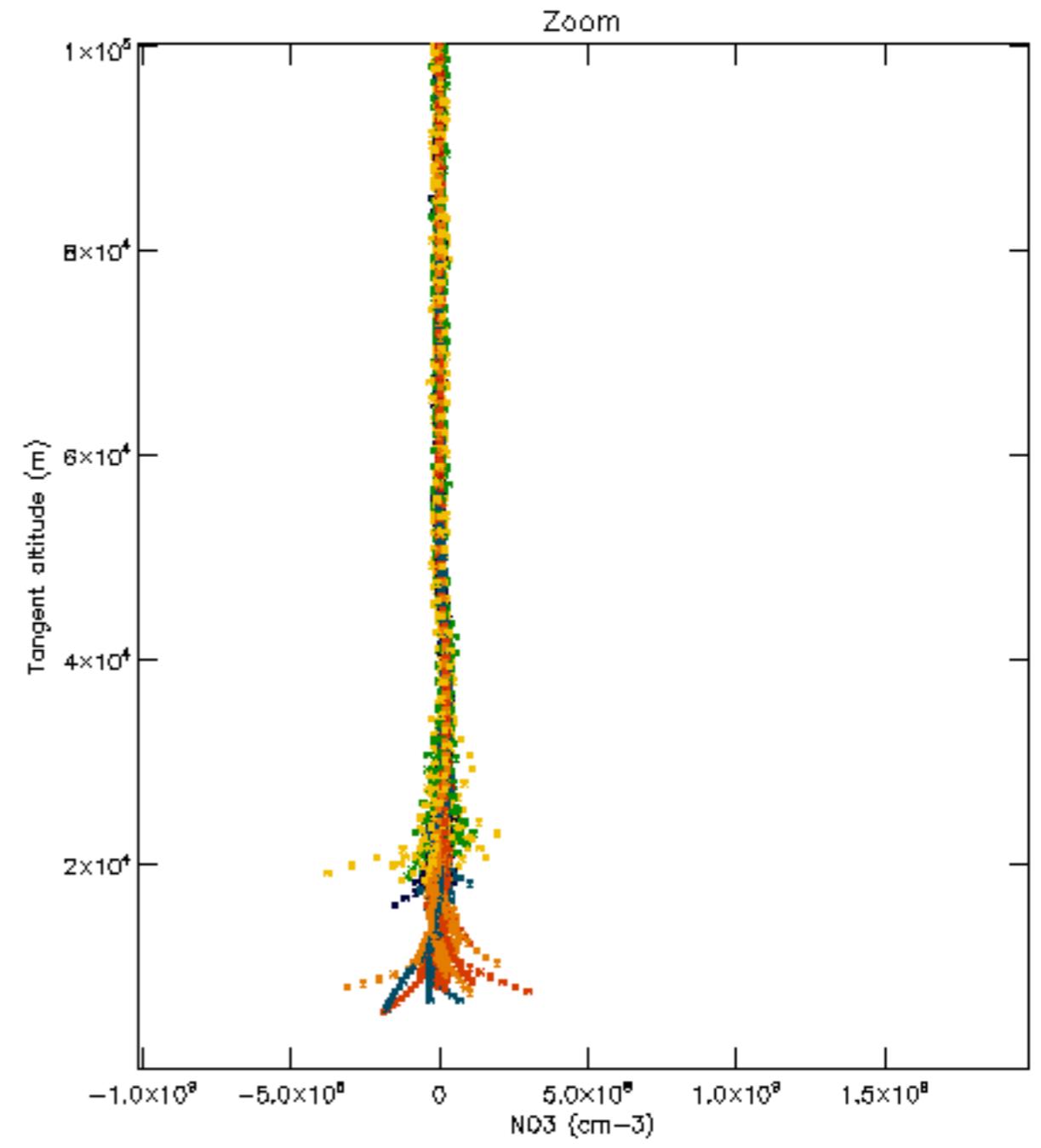
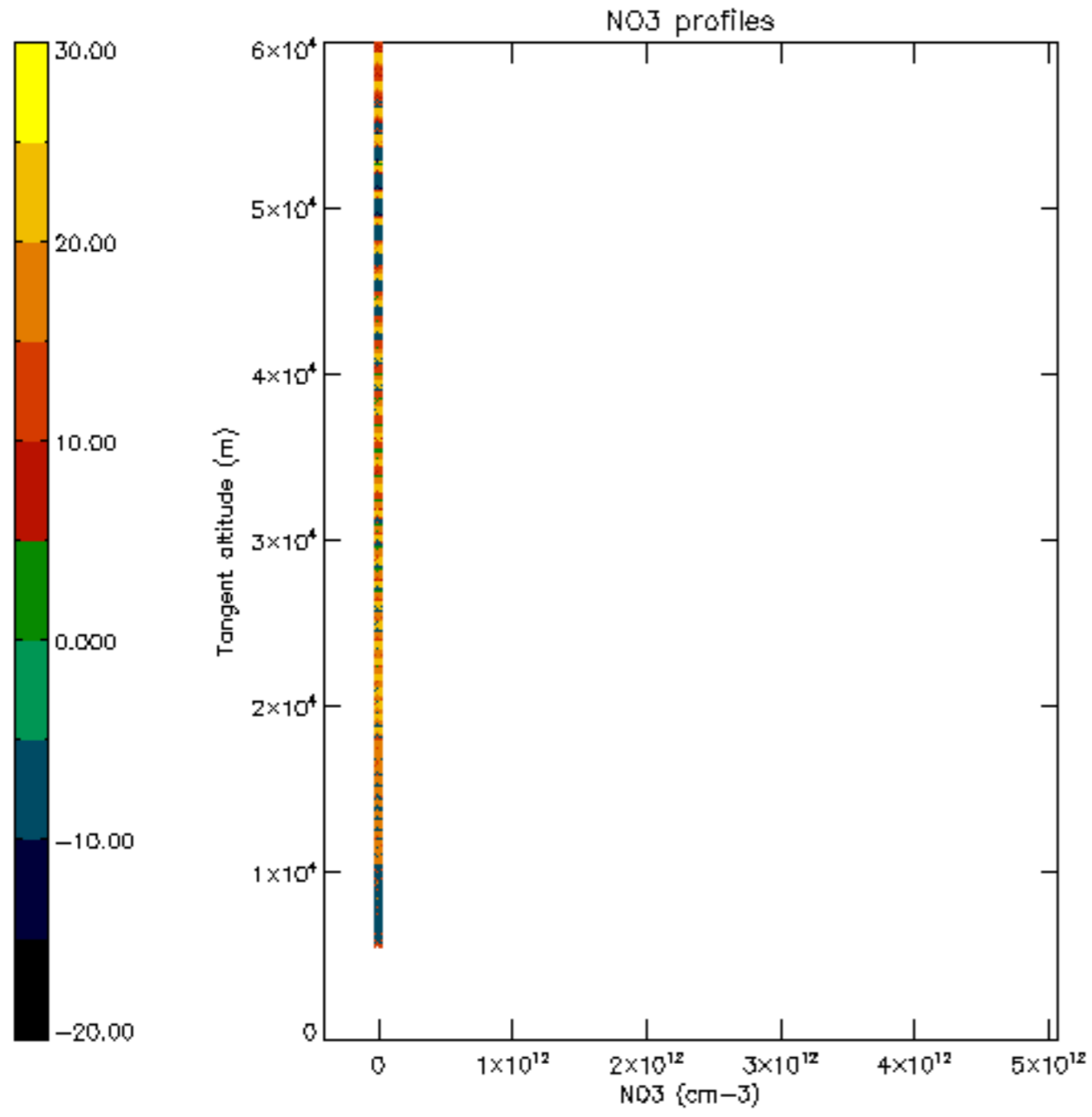


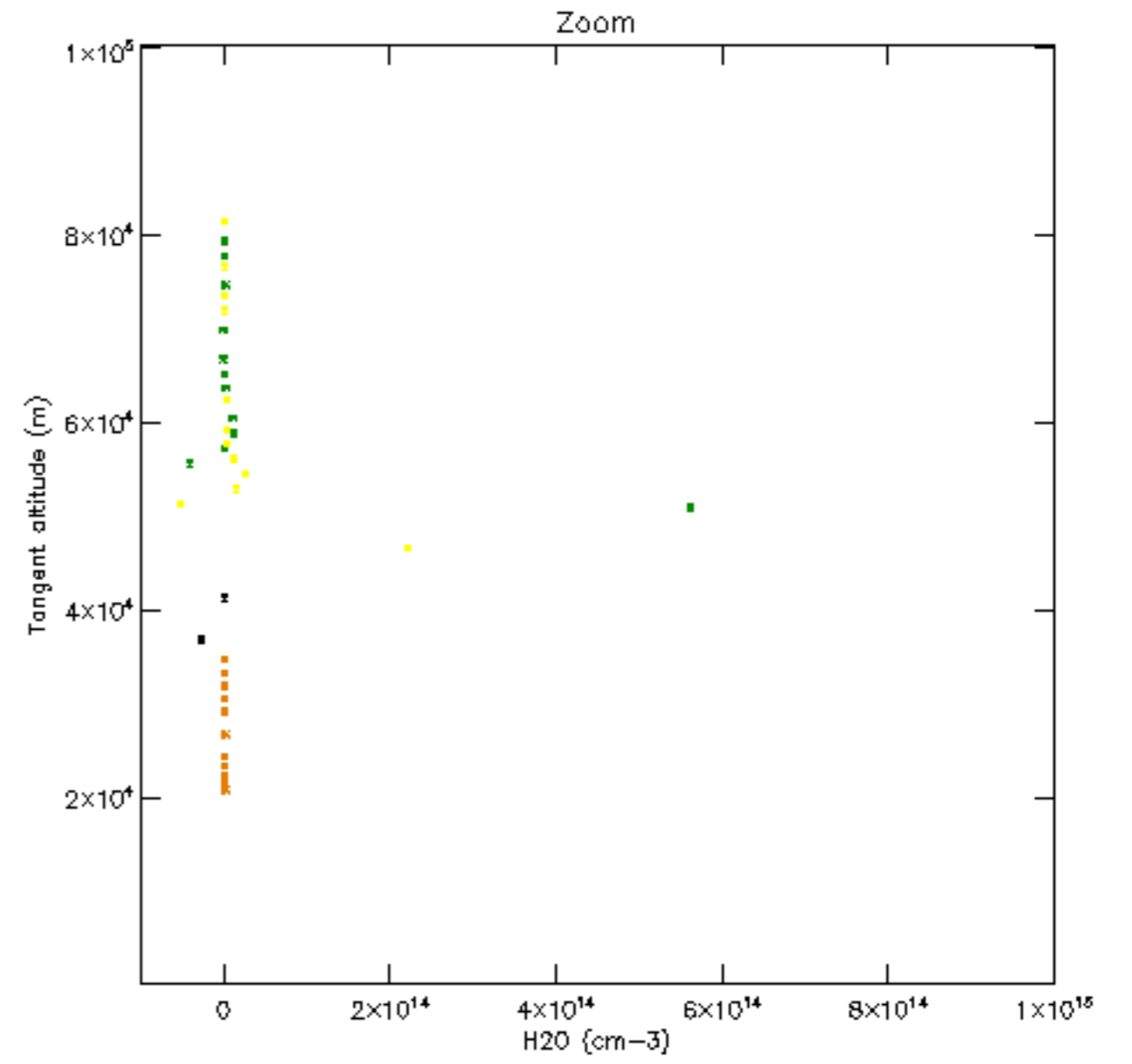
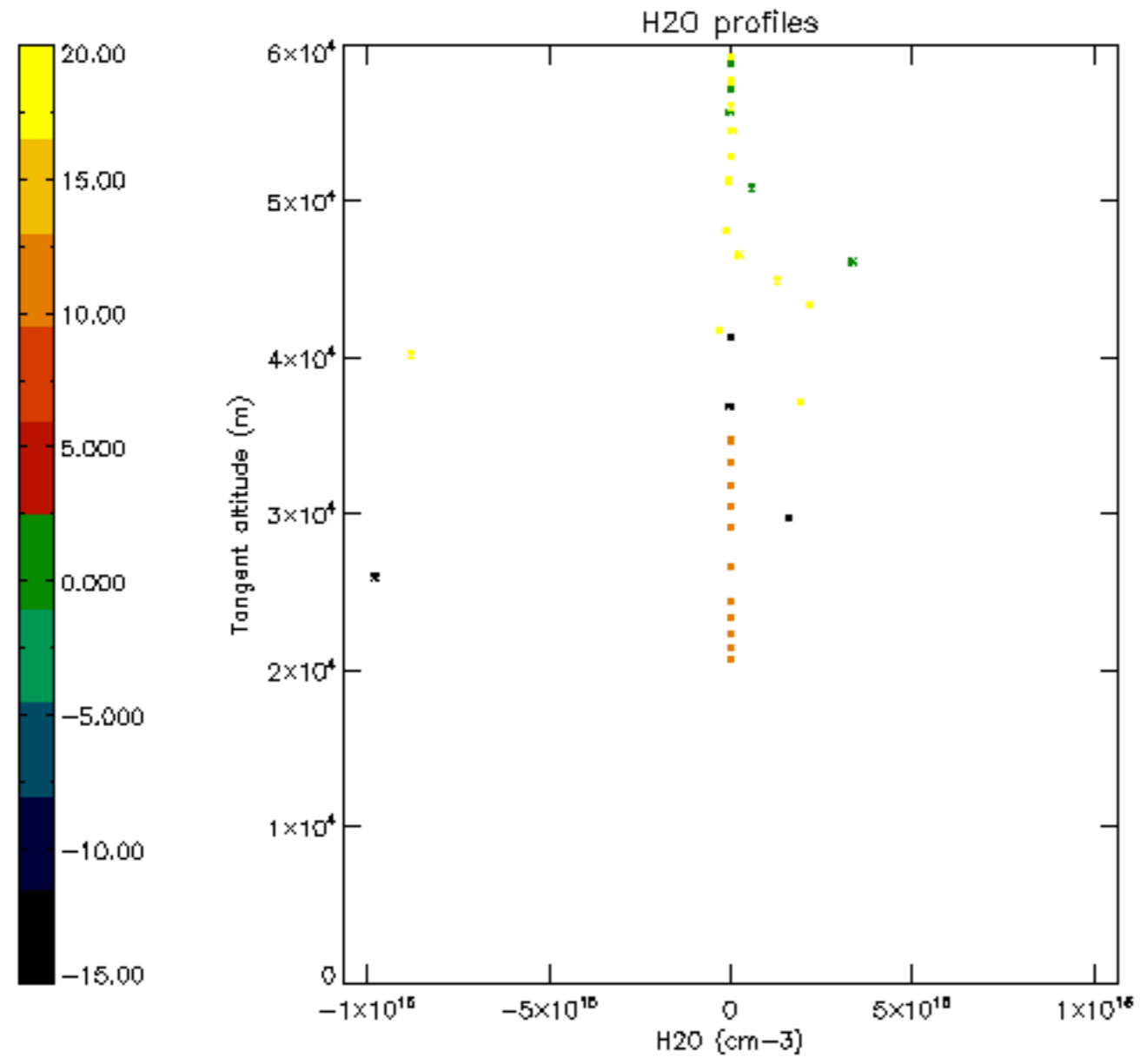


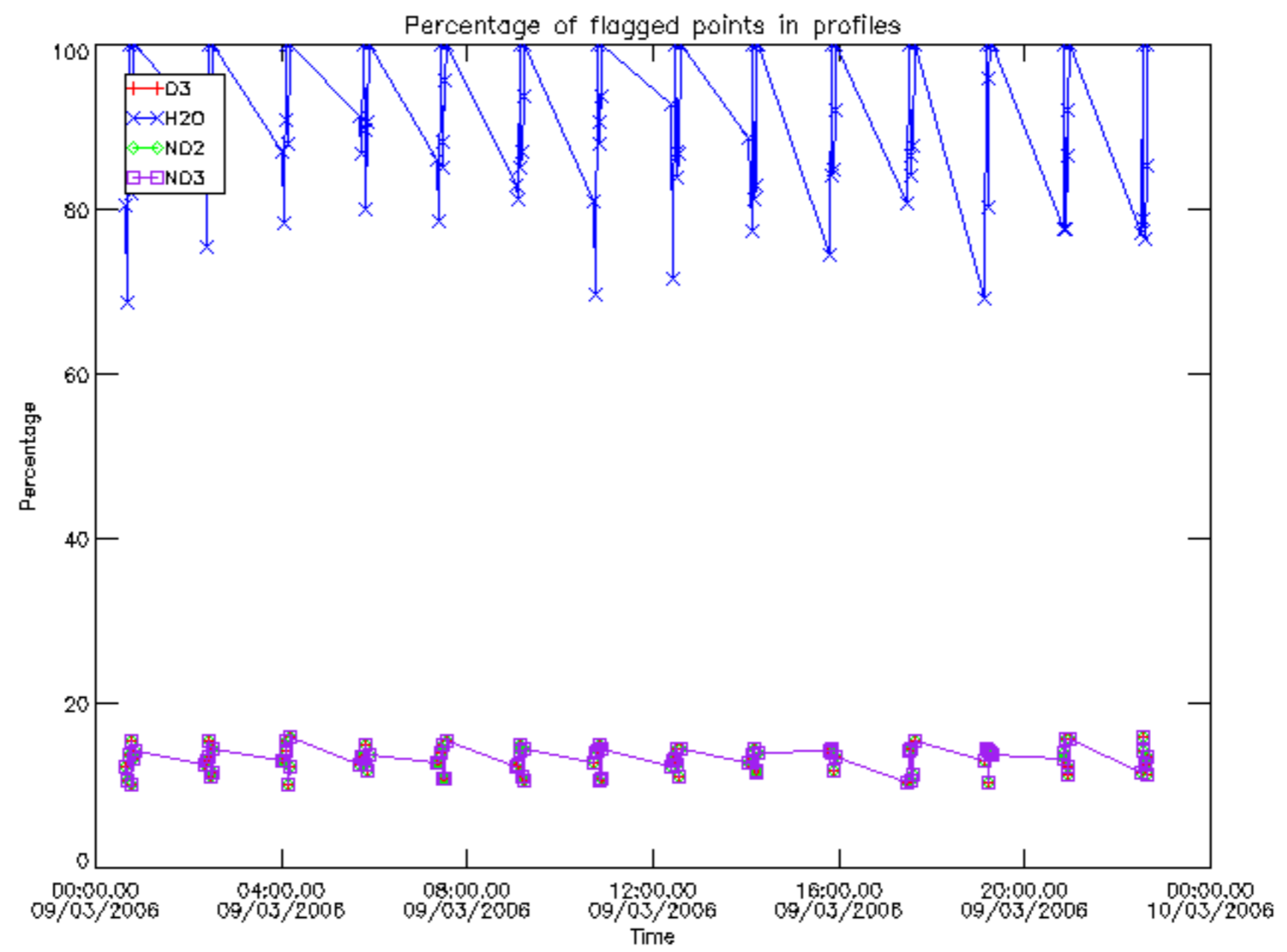




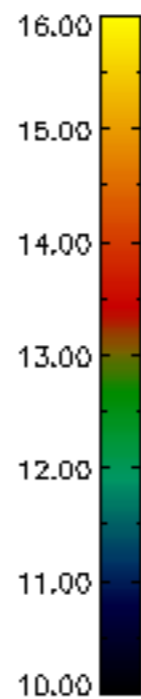
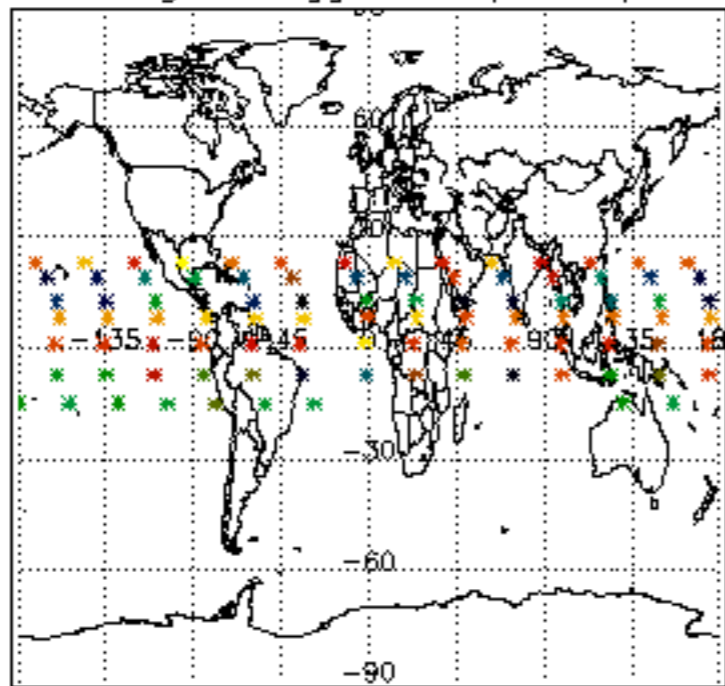




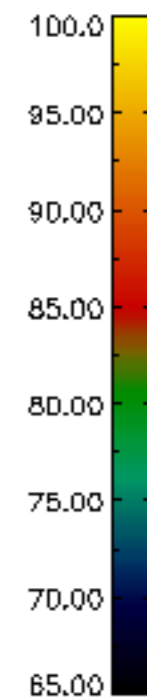
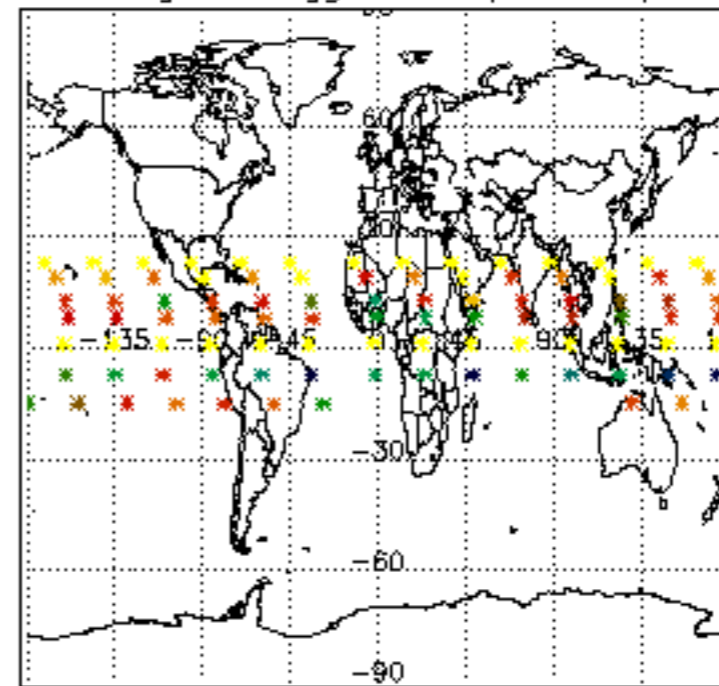




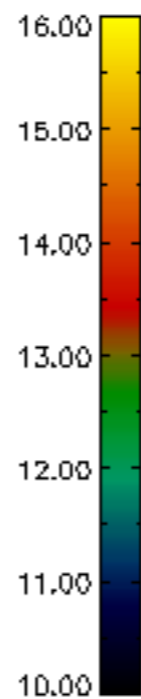
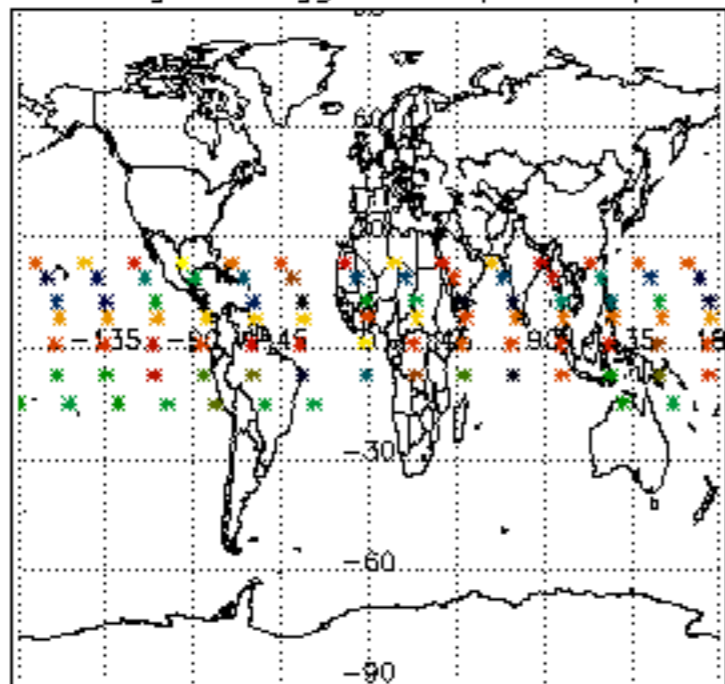
Percentage of flagged data per D3 profile



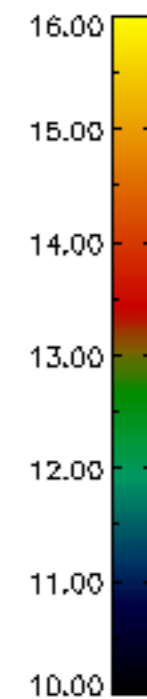
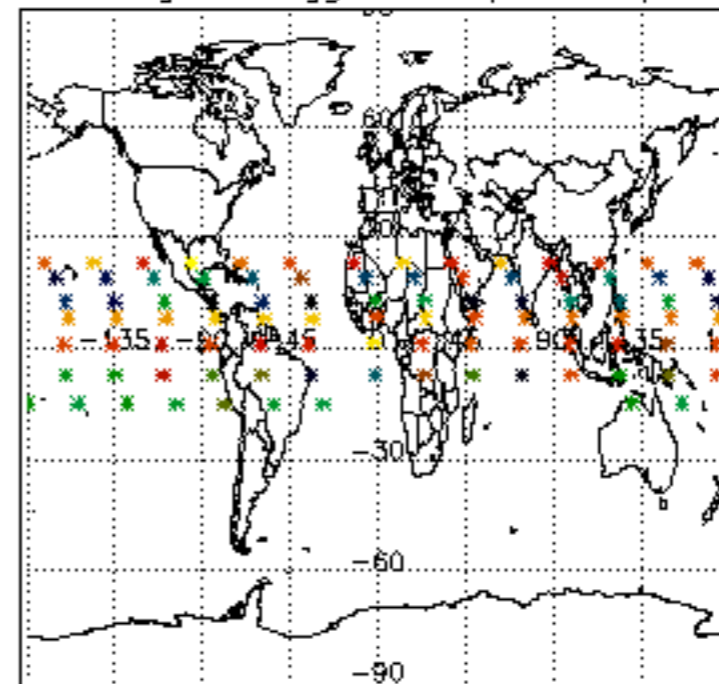
Percentage of flagged data per H2O profile

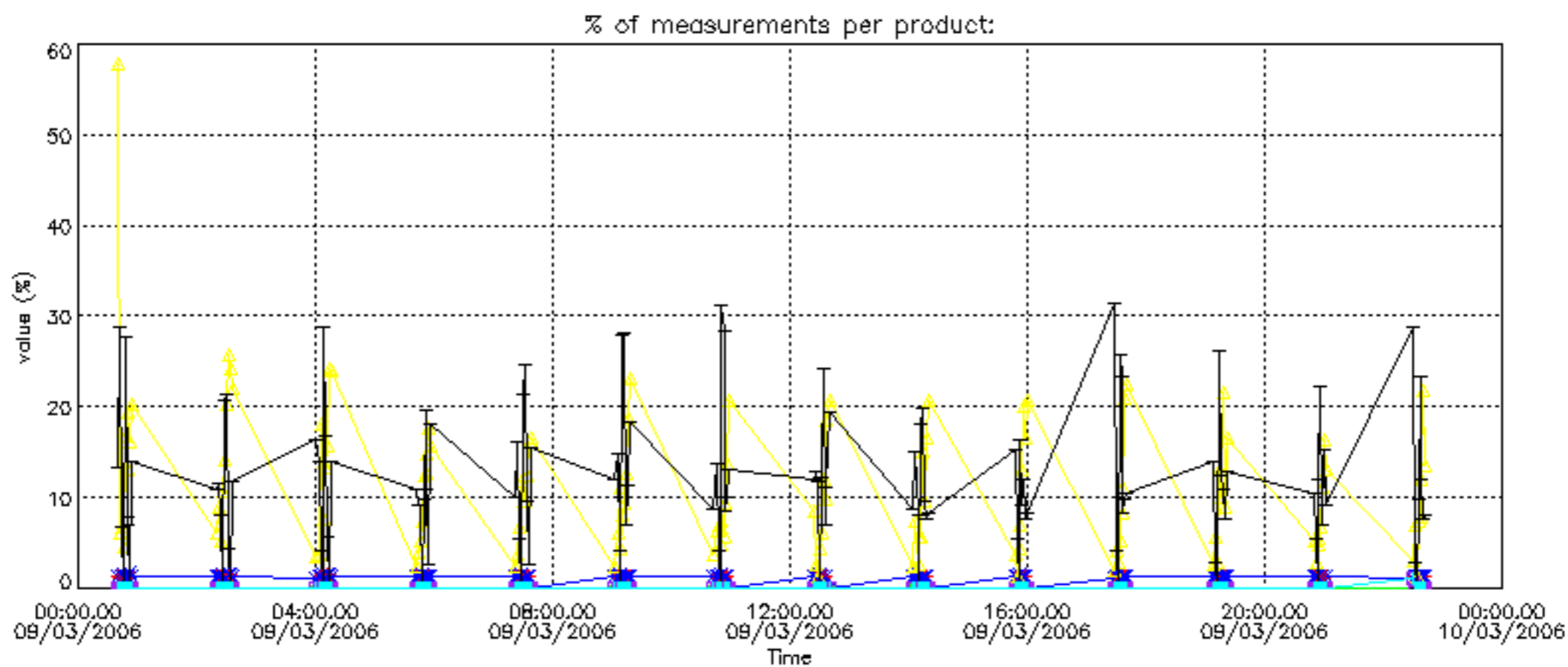


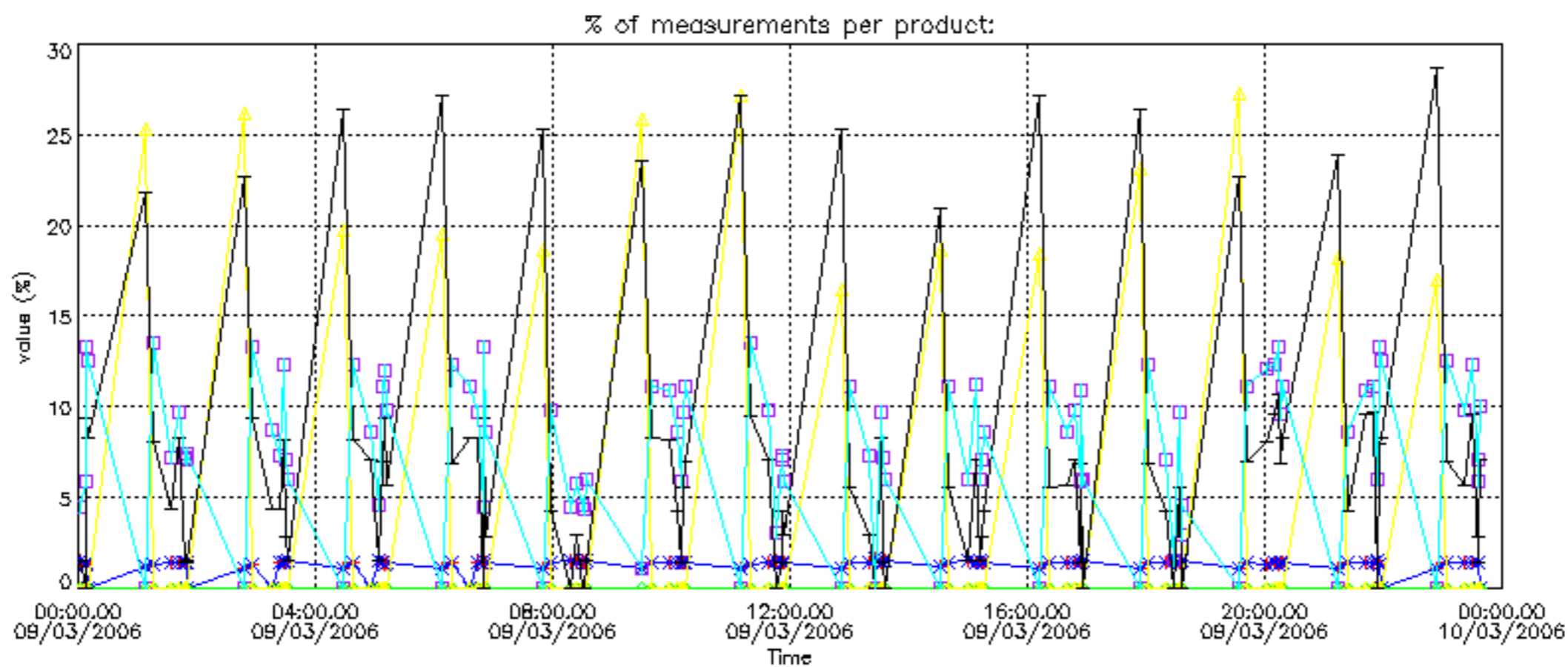
Percentage of flagged data per NO2 profile



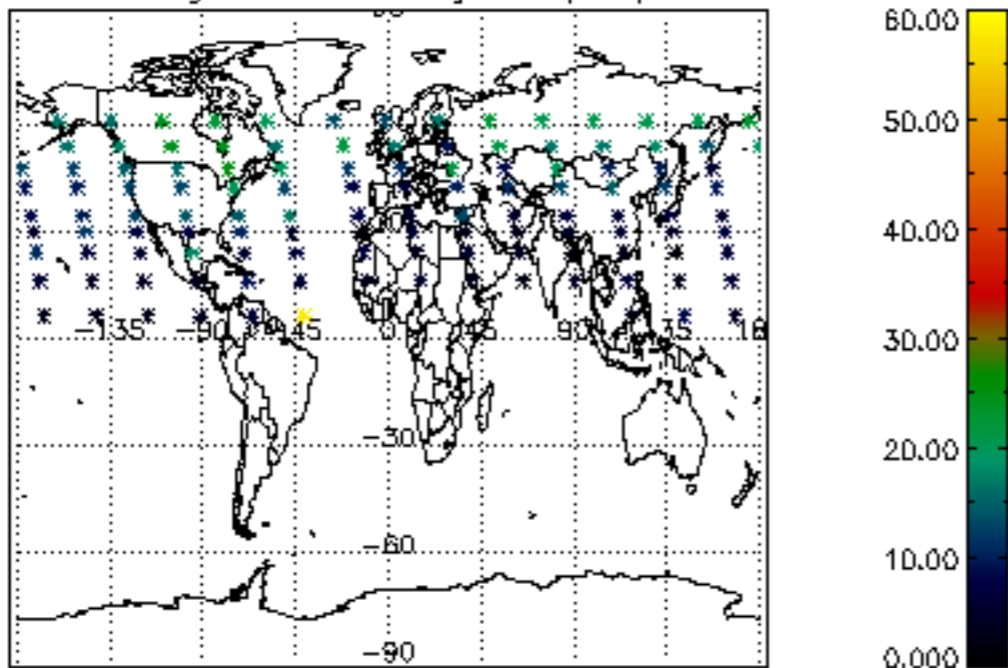
Percentage of flagged data per NO3 profile



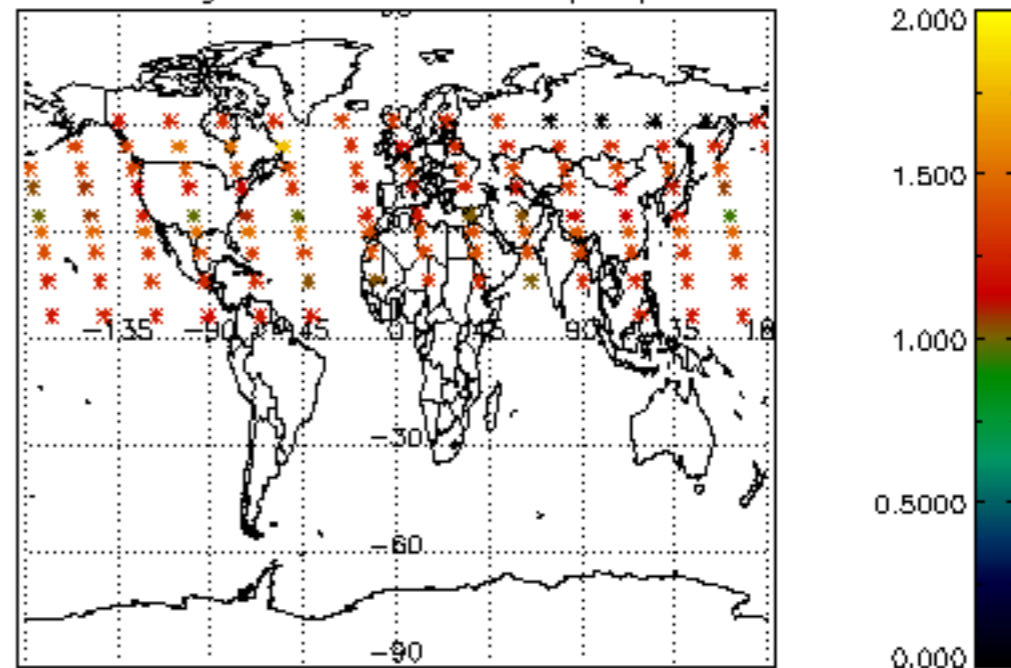




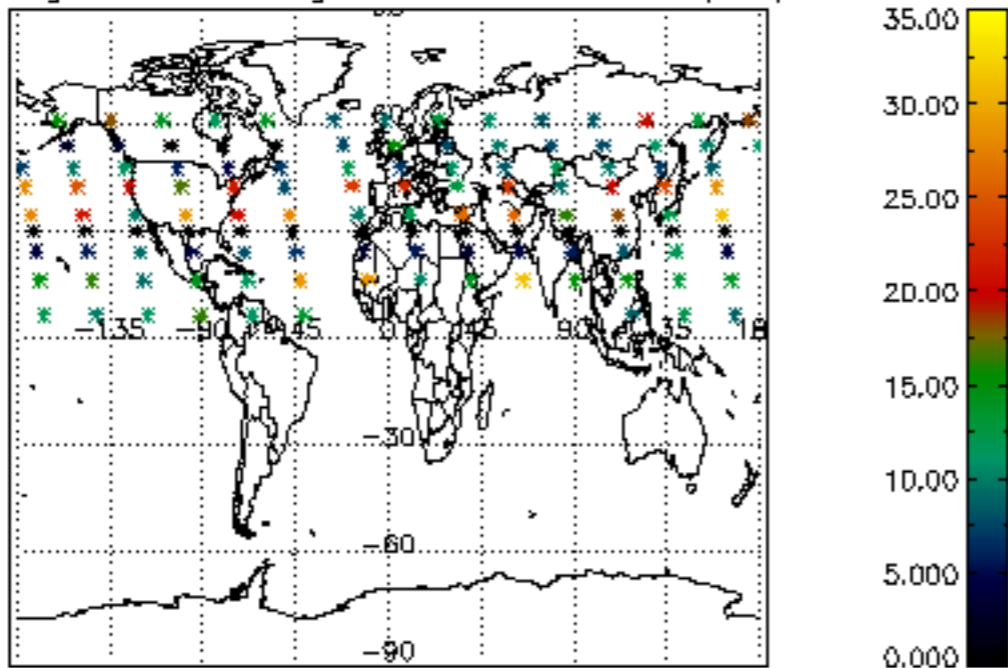
Percentage of cosmic ray hits per profile



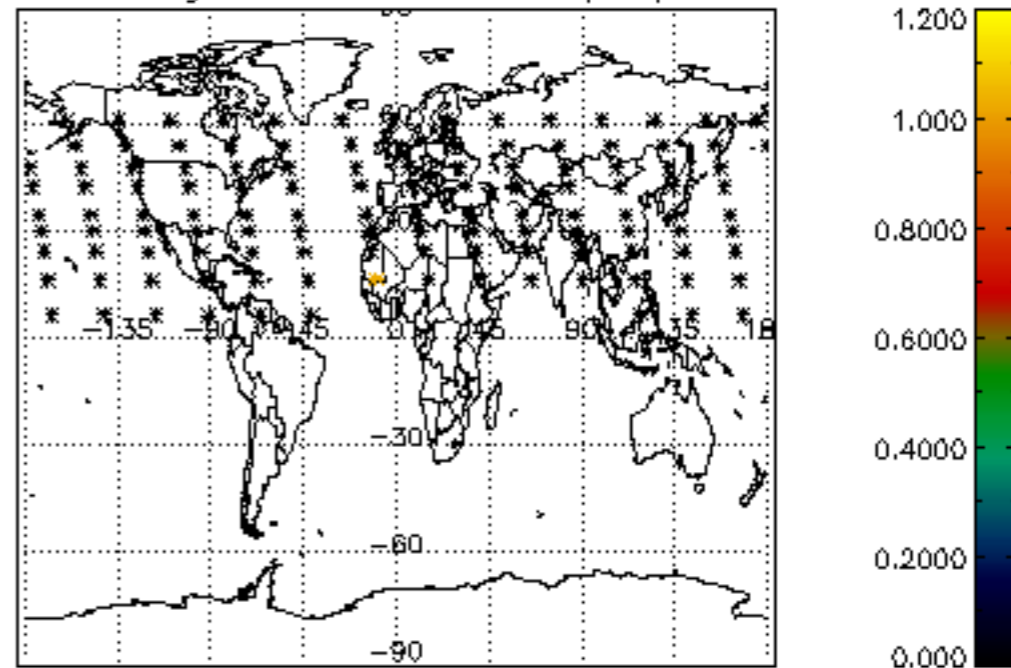
Percentage of datation errors per profile



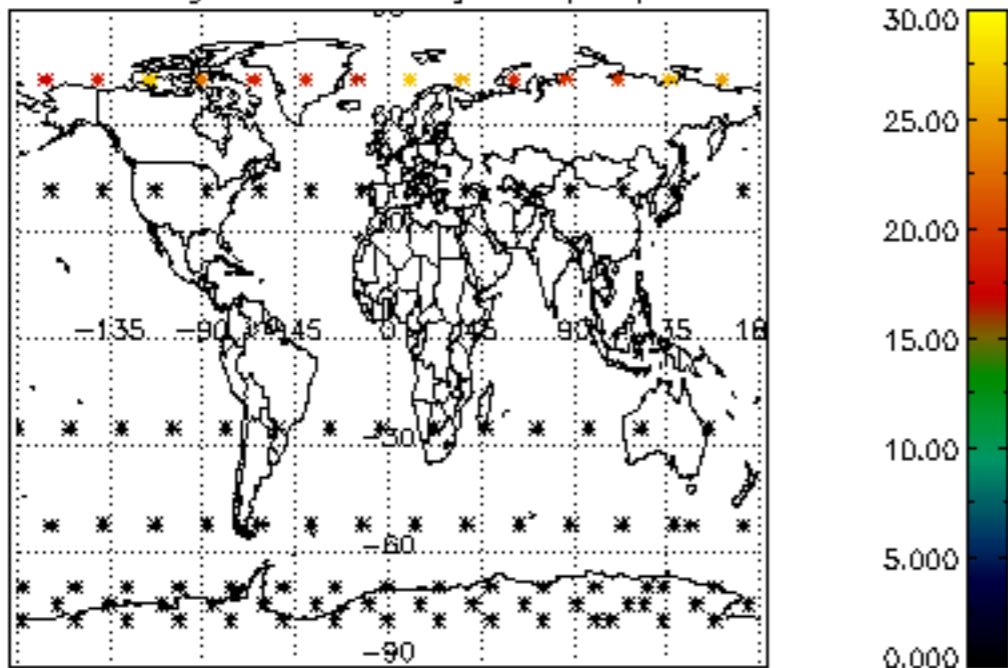
Percentage of star falling outside central band per profile



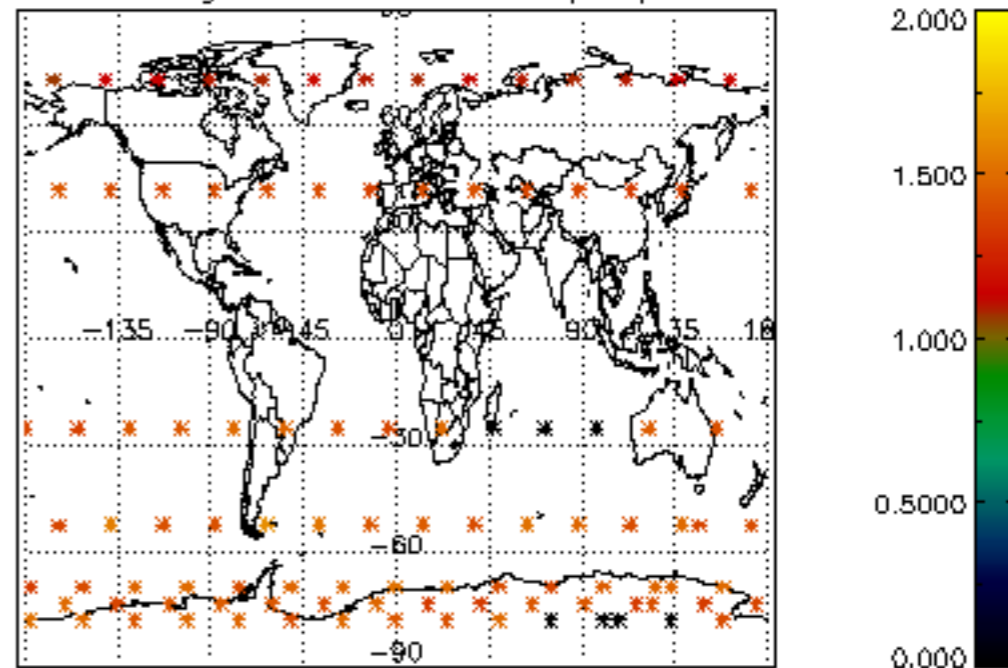
Percentage of saturation errors per profile



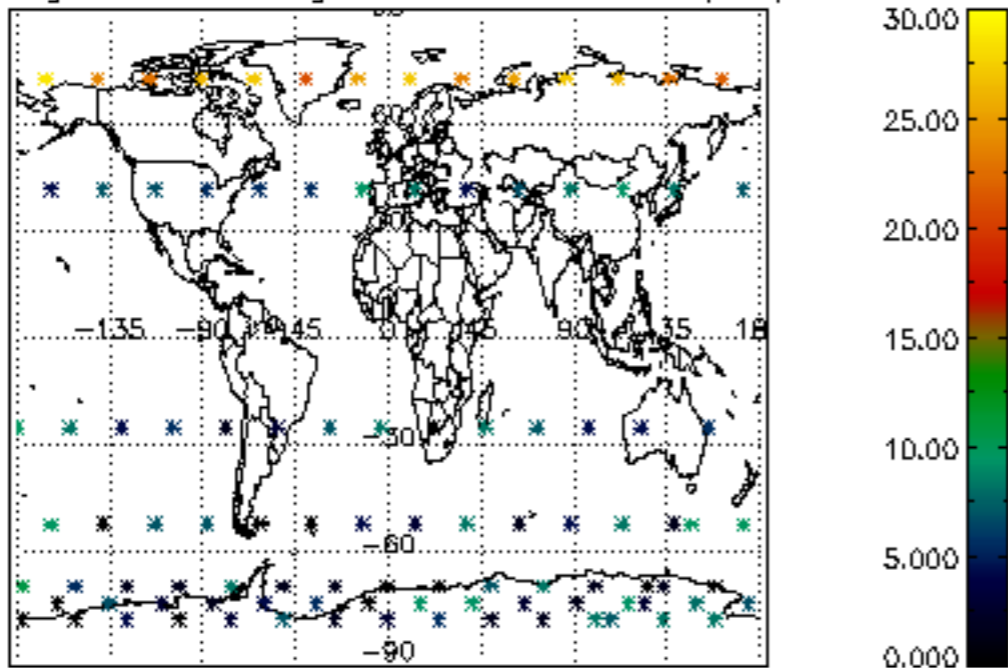
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

