

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	18APR2013 14:11:48
Data source version	GOMOS/6.01
Start time of products	14-03-2012 (14MAR2012 00:00:00)
Stop time of products	15-03-2012 (15MAR2012 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	27
Nb of prods with errors	0

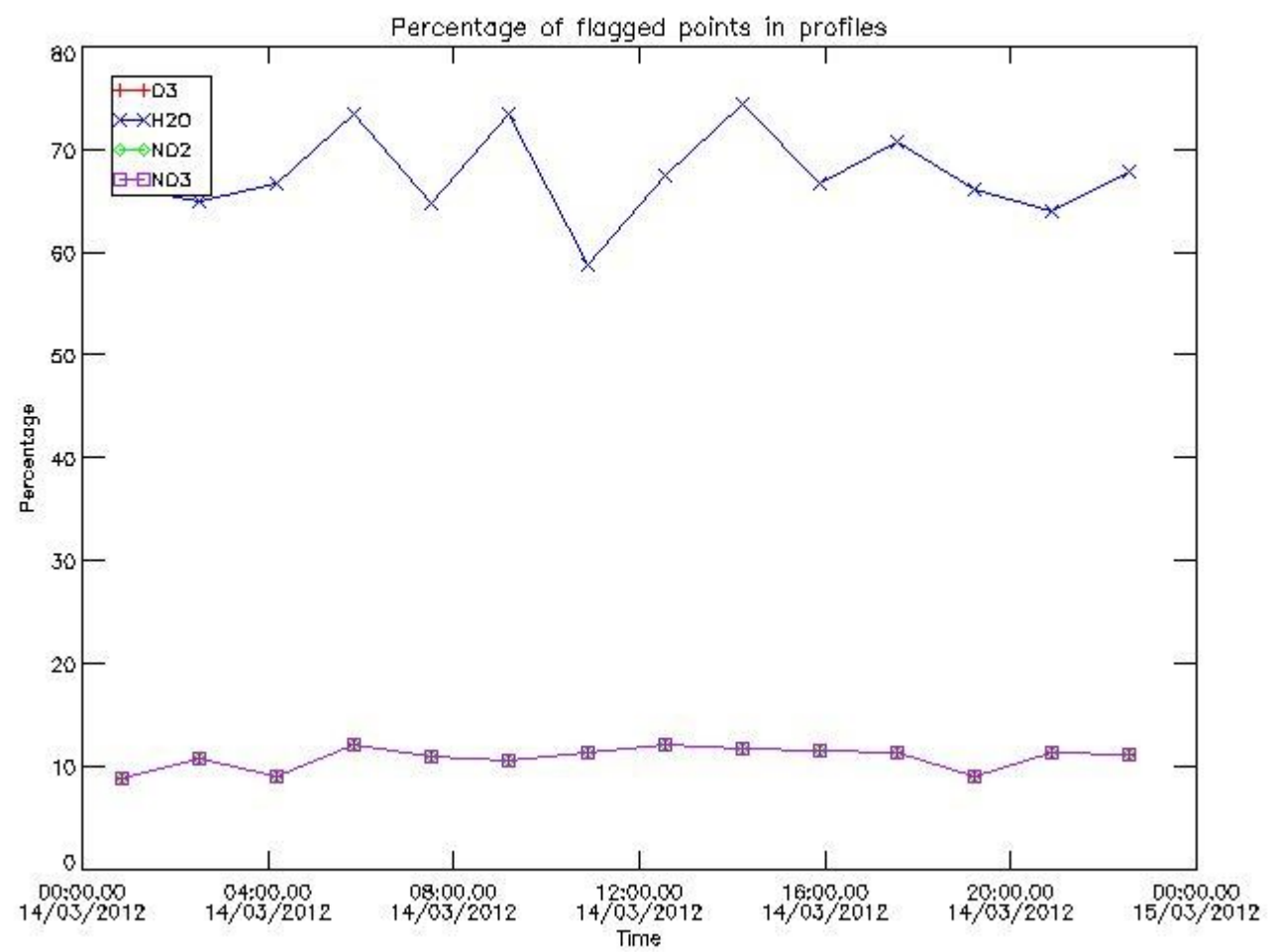
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20120314_005049_000000573112_00333_52502_4567.N1	14-MAR-2012 00:50:49	Dark	56.500	4	Alp1Cen	-0.010000	5800.0	113	52502	No
2	GOM_NL__2PRFIN20120314_023103_000000473112_00334_52503_4578.N1	14-MAR-2012 02:31:03	Dark	47.000	4	Alp1Cen	-0.010000	5800.0	94	52503	No
3	GOM_NL__2PRFIN20120314_033141_000000373112_00334_52503_4579.N1	14-MAR-2012 03:31:41	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	52503	No
4	GOM_NL__2PRFIN20120314_041118_000000563112_00335_52504_4616.N1	14-MAR-2012 04:11:18	Dark	55.500	4	Alp1Cen	-0.010000	5800.0	111	52504	No
5	GOM_NL__2PRFIN20120314_051155_000000383112_00335_52504_4617.N1	14-MAR-2012 05:11:55	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	52504	No
6	GOM_NL__2PRFIN20120314_055132_000000423112_00336_52505_4628.N1	14-MAR-2012 05:51:32	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	52505	No
7	GOM_NL__2PRFIN20120314_065209_000000383112_00336_52505_4629.N1	14-MAR-2012 06:52:09	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	52505	No
8	GOM_NL__2PRFIN20120314_073147_000000463112_00337_52506_4645.N1	14-MAR-2012 07:31:47	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	52506	No
9	GOM_NL__2PRFIN20120314_083223_000000383112_00337_52506_4646.N1	14-MAR-2012 08:32:23	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	52506	No
10	GOM_NL__2PRFIN20120314_091201_000000573112_00338_52507_4671.N1	14-MAR-2012 09:12:01	Dark	56.500	4	Alp1Cen	-0.010000	5800.0	113	52507	No
11	GOM_NL__2PRFIN20120314_101237_000000373112_00338_52507_4672.N1	14-MAR-2012 10:12:37	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	52507	No
12	GOM_NL__2PRFIN20120314_105216_000000493112_00339_52508_4715.N1	14-MAR-2012 10:52:16	Dark	48.500	4	Alp1Cen	-0.010000	5800.0	97	52508	No
13	GOM_NL__2PRFIN20120314_115251_000000363112_00339_52508_4716.N1	14-MAR-2012 11:52:51	Bright	35.500	19	50Alp Cyg	1.2460	10500.	71	52508	No
14	GOM_NL__2PRFIN20120314_123230_000000423112_00340_52509_4791.N1	14-MAR-2012 12:32:30	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	52509	No
15	GOM_NL__2PRFIN20120314_133305_000000373112_00340_52509_4792.N1	14-MAR-2012 13:33:05	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	52509	No
16	GOM_NL__2PRFIN20120314_141245_000000433112_00341_52510_4815.N1	14-MAR-2012 14:12:45	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	52510	No
17	GOM_NL__2PRFIN20120314_151319_000000363112_00341_52510_4816.N1	14-MAR-2012 15:13:19	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	52510	No
18	GOM_NL__2PRFIN20120314_155259_000000443112_00342_52511_4843.N1	14-MAR-2012 15:52:59	Dark	43.500	4	Alp1Cen	-0.010000	5800.0	87	52511	No
19	GOM_NL__2PRFIN20120314_165333_000000363112_00342_52511_4844.N1	14-MAR-2012 16:53:33	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	52511	No
20	GOM_NL__2PRFIN20120314_173314_000000453112_00343_52512_4867.N1	14-MAR-2012 17:33:14	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	52512	No
21	GOM_NL__2PRFIN20120314_183346_000000363112_00343_52512_4868.N1	14-MAR-2012 18:33:46	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	52512	No
22	GOM_NL__2PRFIN20120314_191328_000000563112_00344_52513_4889.N1	14-MAR-2012 19:13:28	Dark	56.000	4	Alp1Cen	-0.010000	5800.0	112	52513	No
23	GOM_NL__2PRFIN20120314_201401_000000363112_00344_52513_4890.N1	14-MAR-2012 20:14:01	Bright	35.500	19	50Alp Cyg	1.2460	10500.	71	52513	No
24	GOM_NL__2PRFIN20120314_205342_000000453112_00345_52514_4940.N1	14-MAR-2012 20:53:42	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	52514	No
25	GOM_NL__2PRFIN20120314_215415_000000383112_00345_52514_4941.N1	14-MAR-2012 21:54:15	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	52514	No
26	GOM_NL__2PRFIN20120314_223357_000000463112_00346_52515_4949.N1	14-MAR-2012 22:33:57	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	52515	No
27	GOM_NL__2PRFIN20120314_233429_000000353112_00346_52515_4950.N1	14-MAR-2012 23:34:29	Bright	35.000	19	50Alp Cyg	1.2460	10500.	70	52515	No

3. Quality information per product

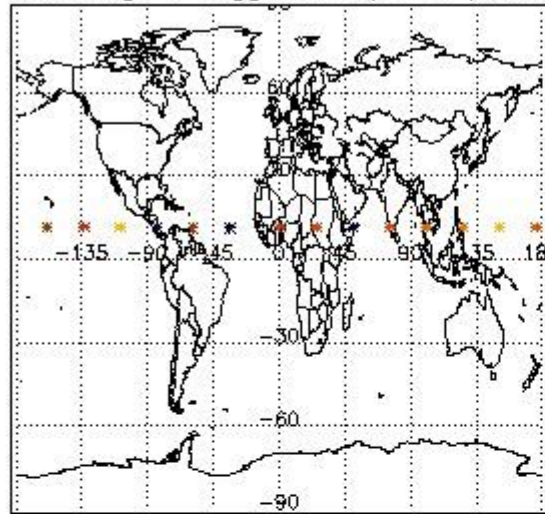
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

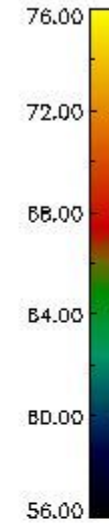
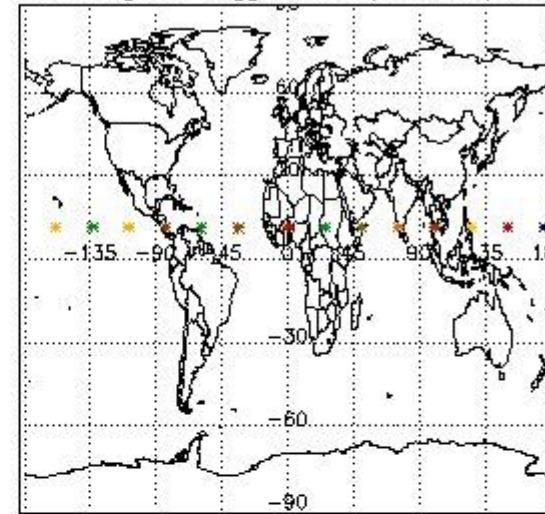


3.2 Plot quality information per product (world map)

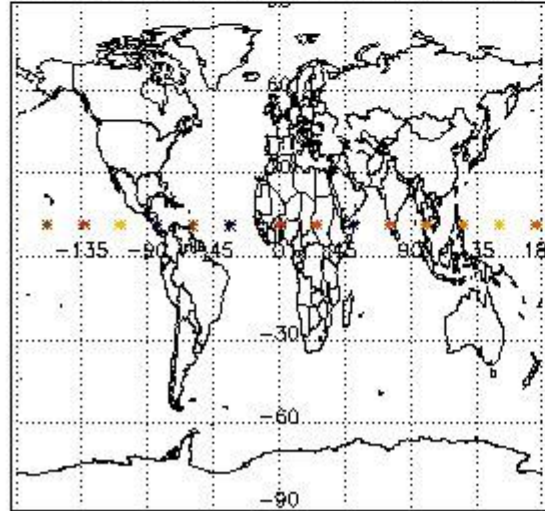
Percentage of flagged data per O3 profile



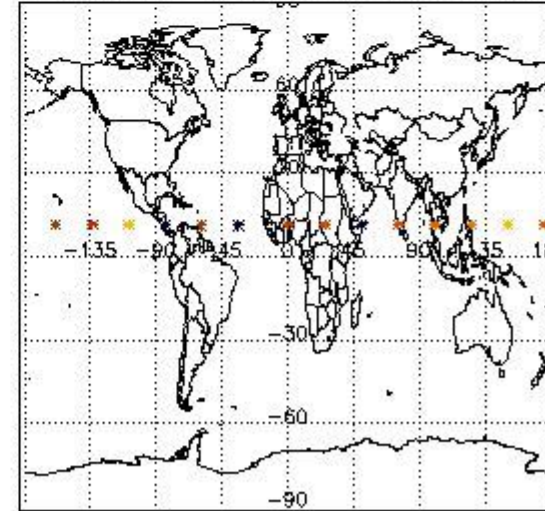
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

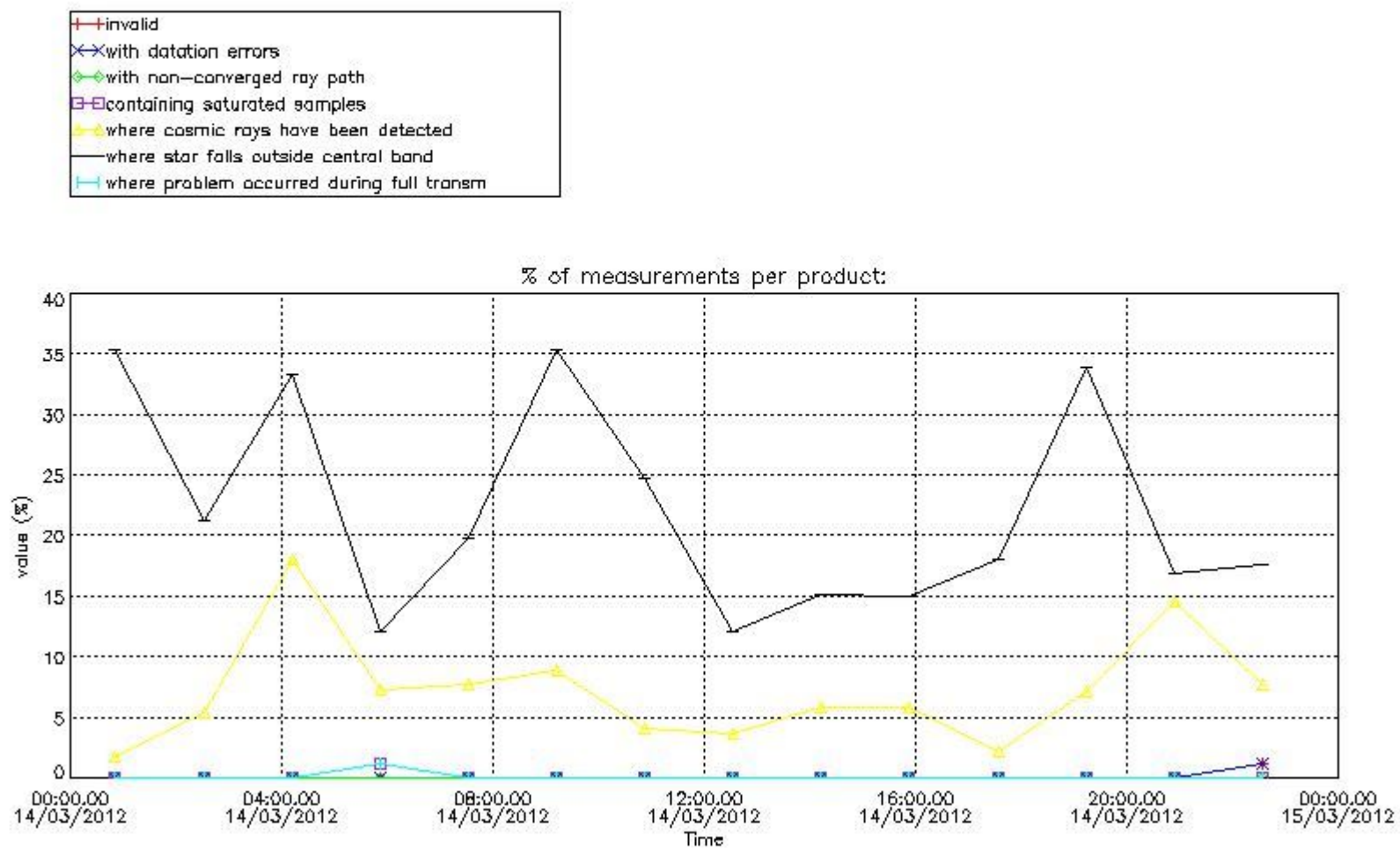


4. Level 1 quality information per product

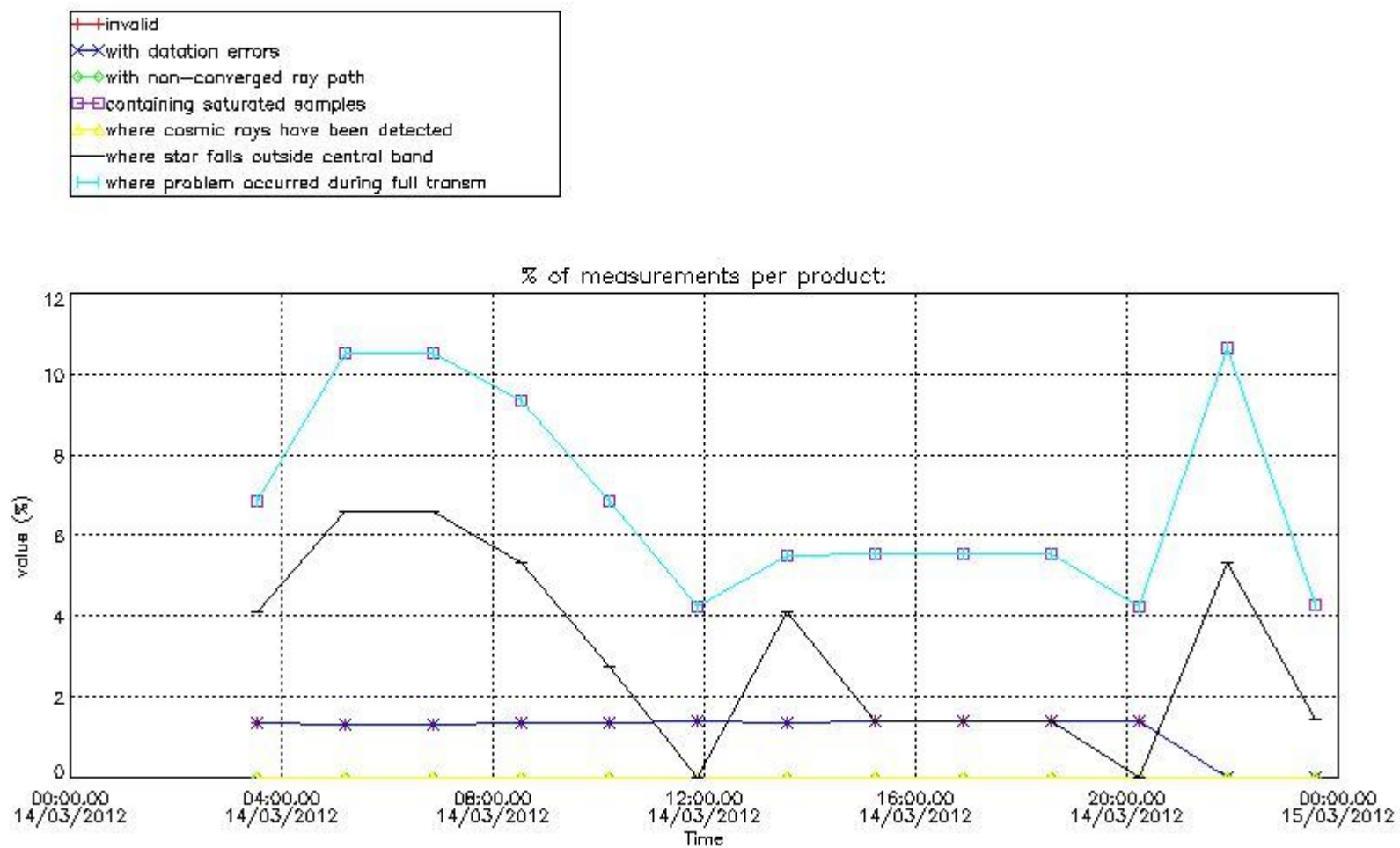
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



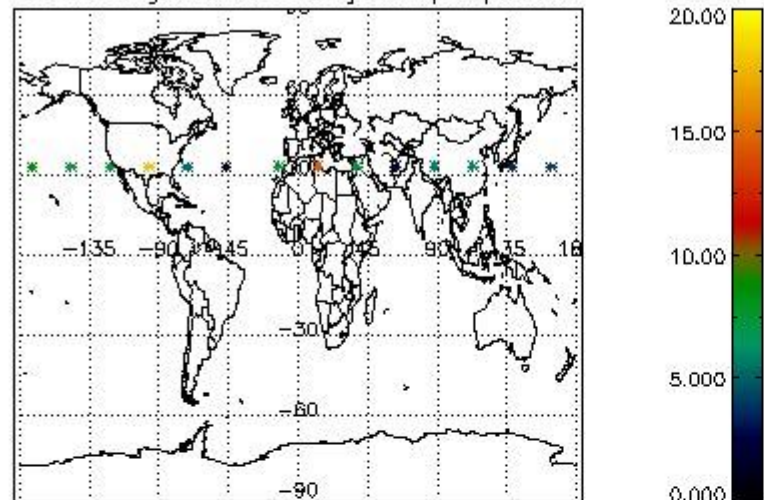
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



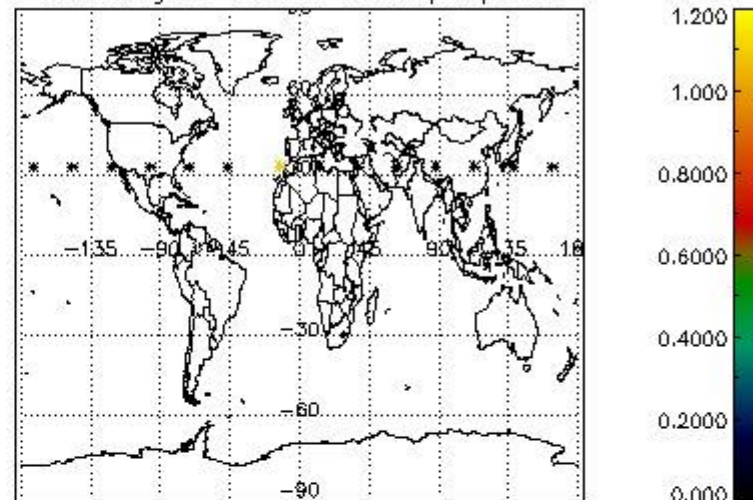
4.2 Plot quality information per product coming from level 1b processing (world map)

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

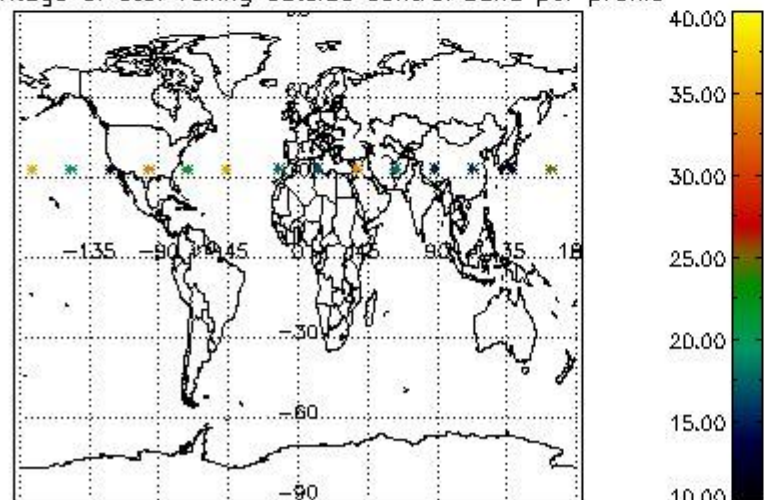
Percentage of cosmic ray hits per profile



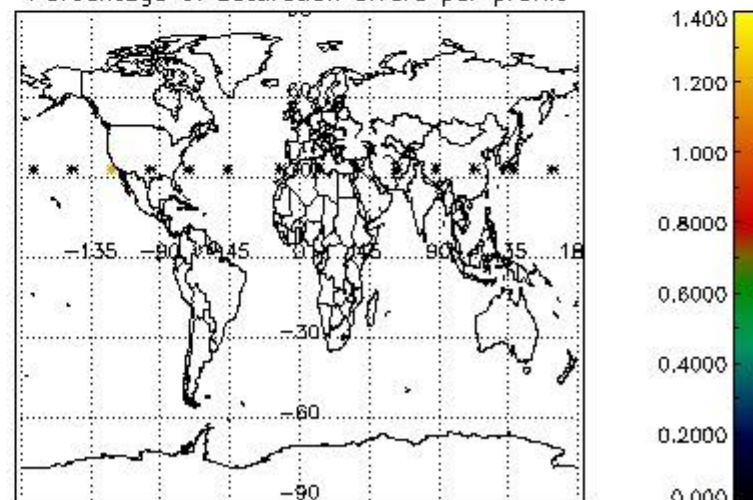
Percentage of datation errors per profile



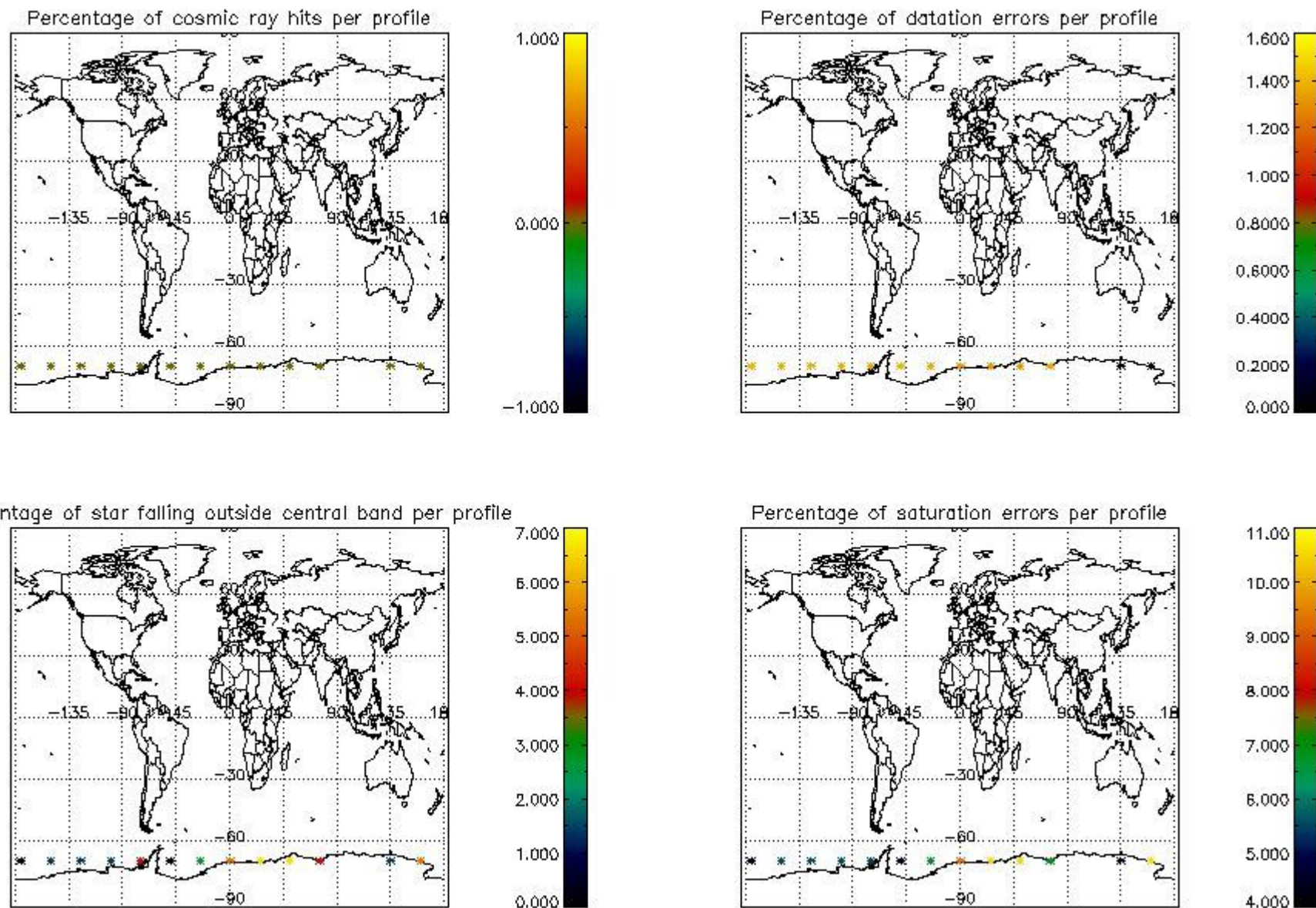
Percentage of star falling outside central band per profile



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

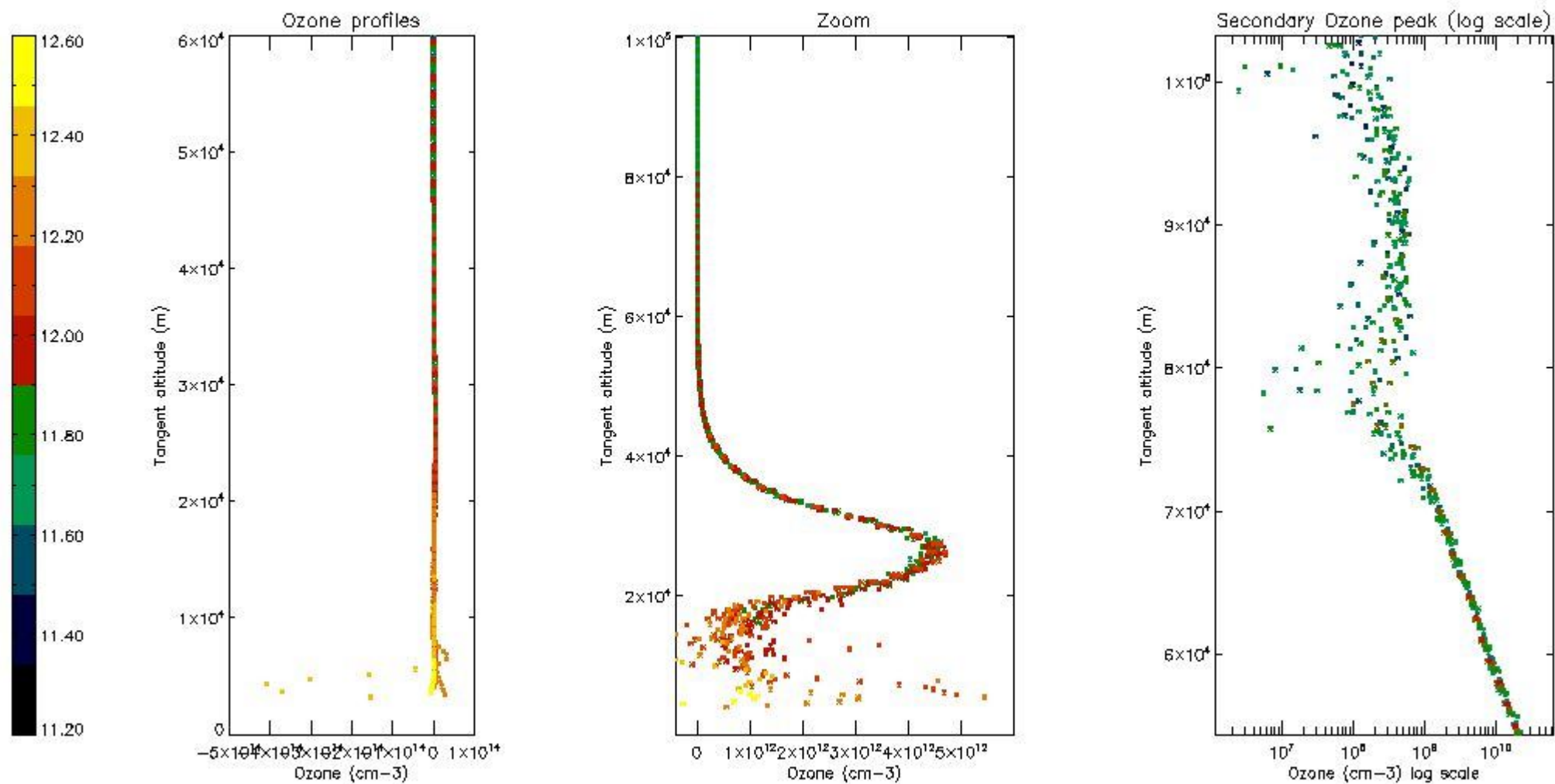
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	60
STD < 20	30

STD < 10	26
STD < 5	21

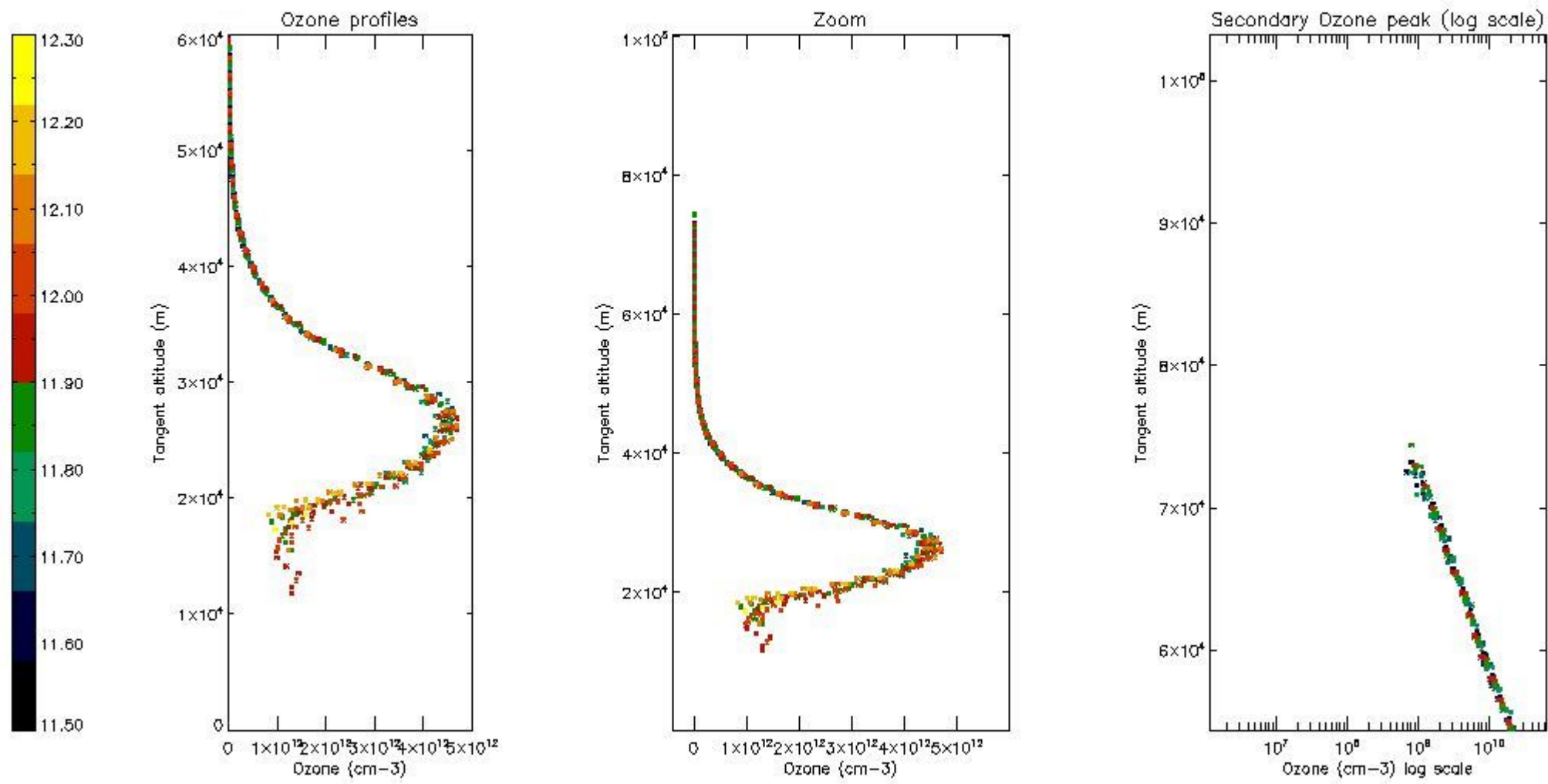
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



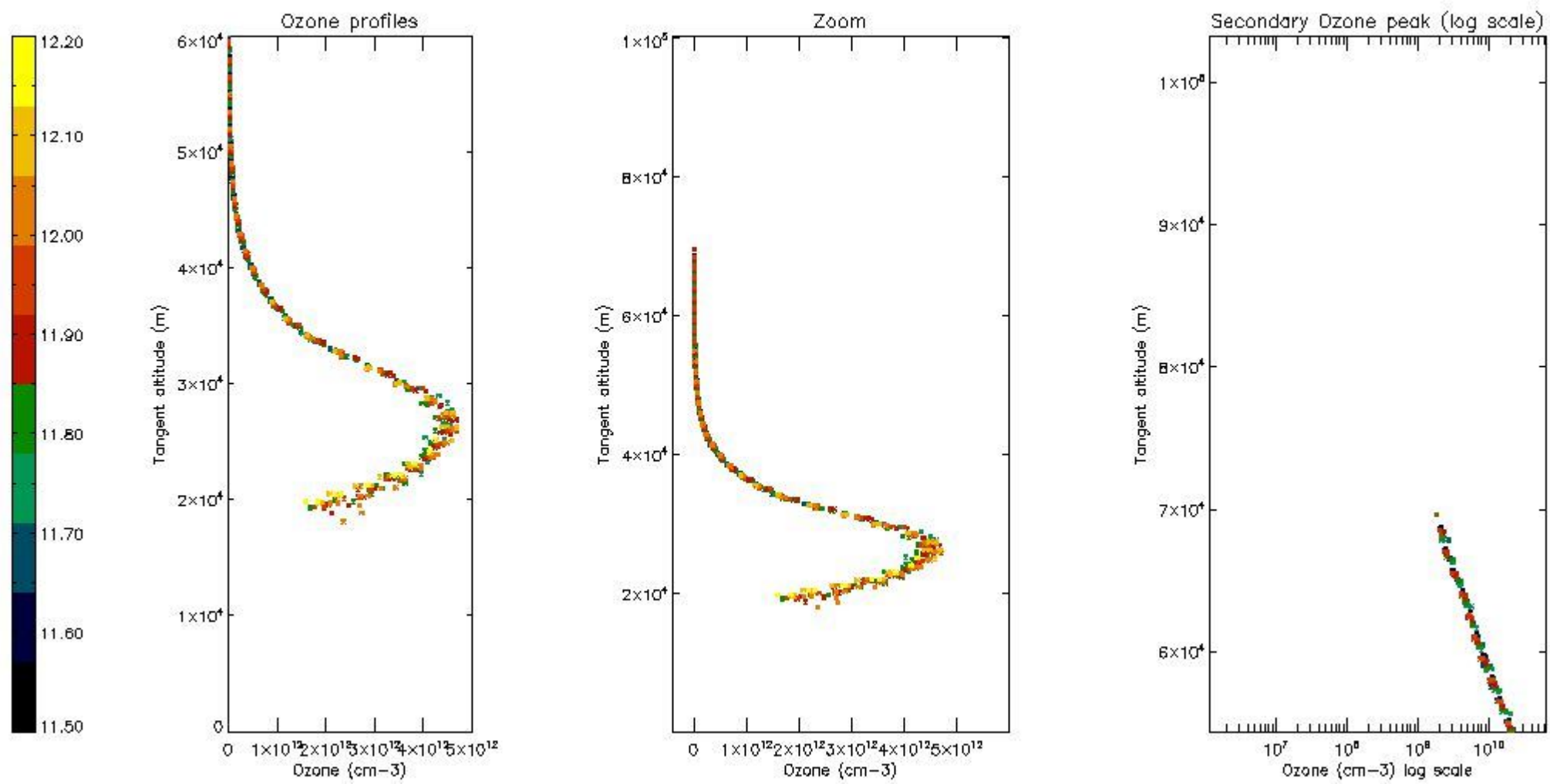
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



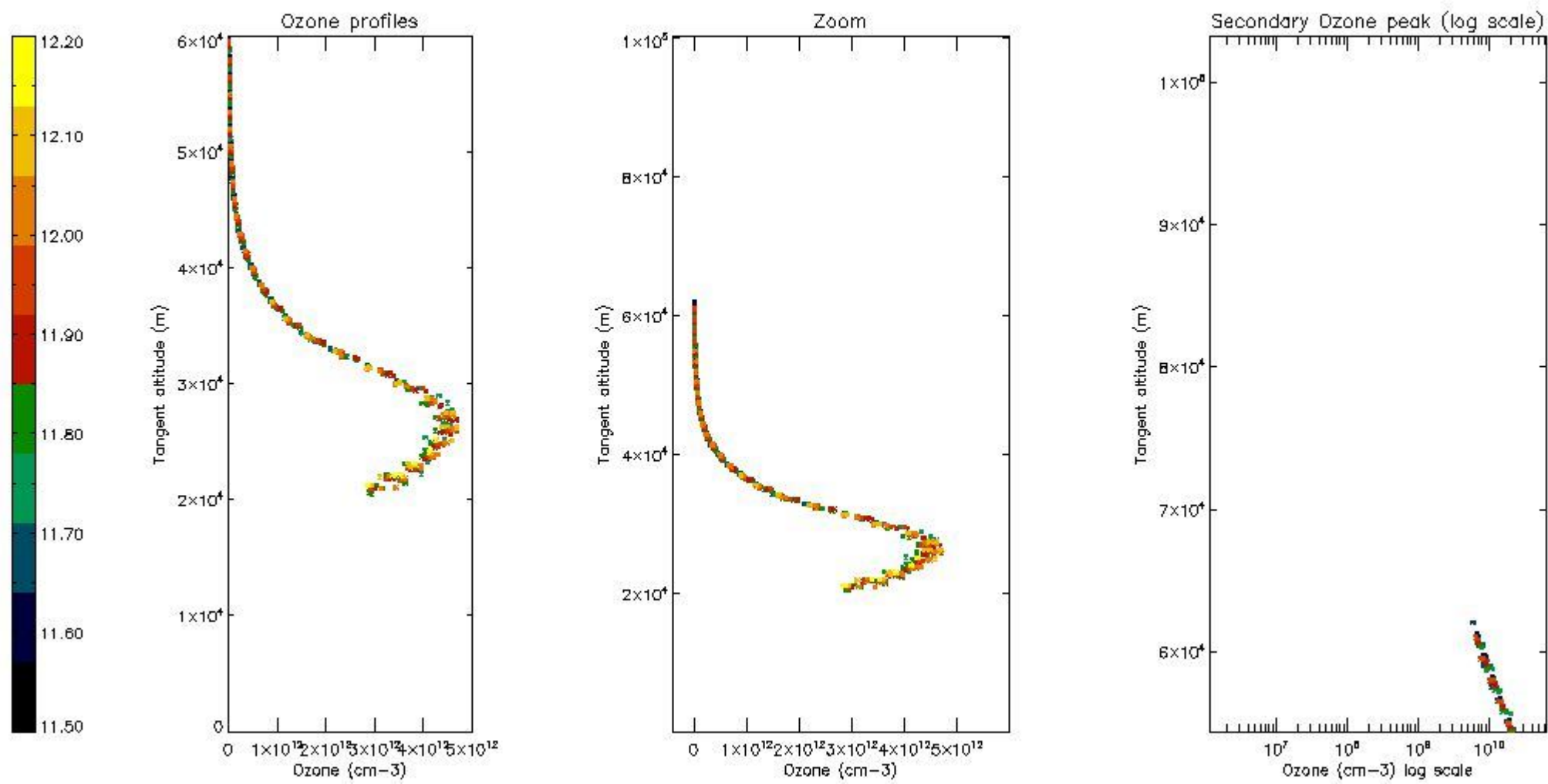
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



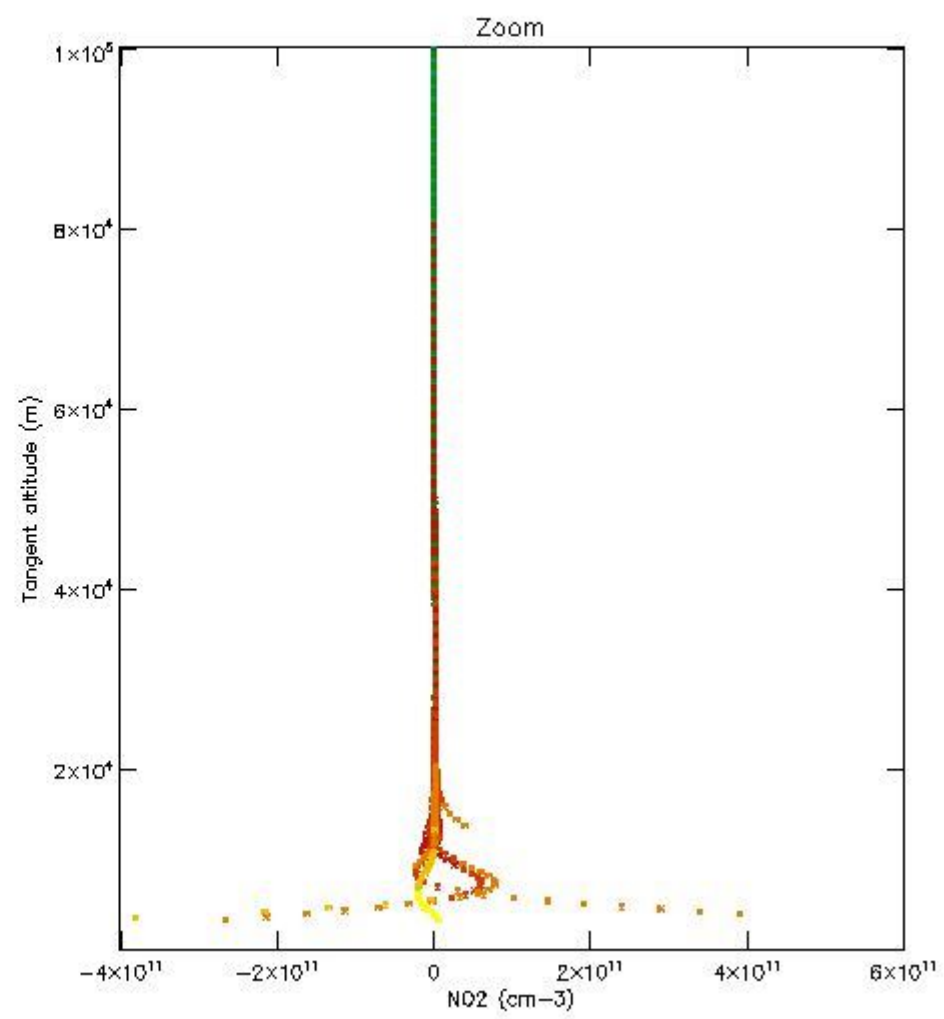
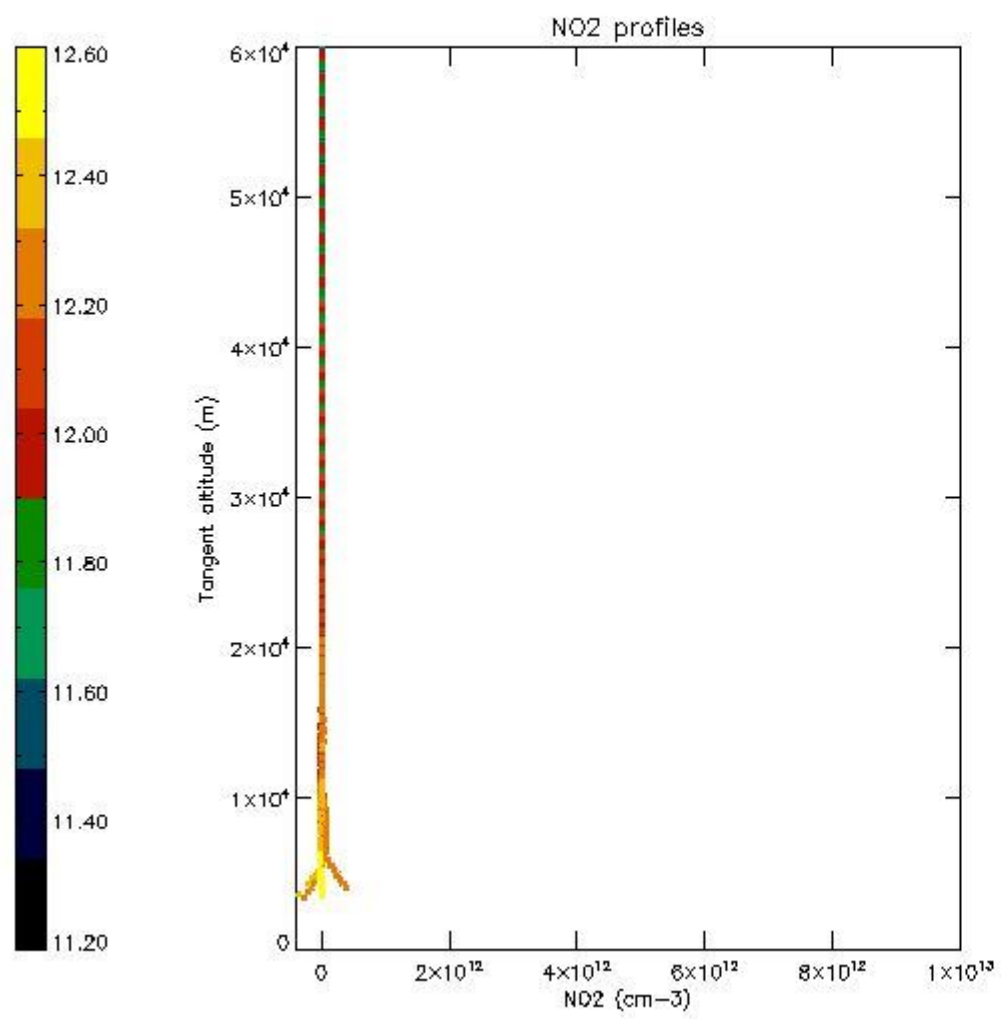
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



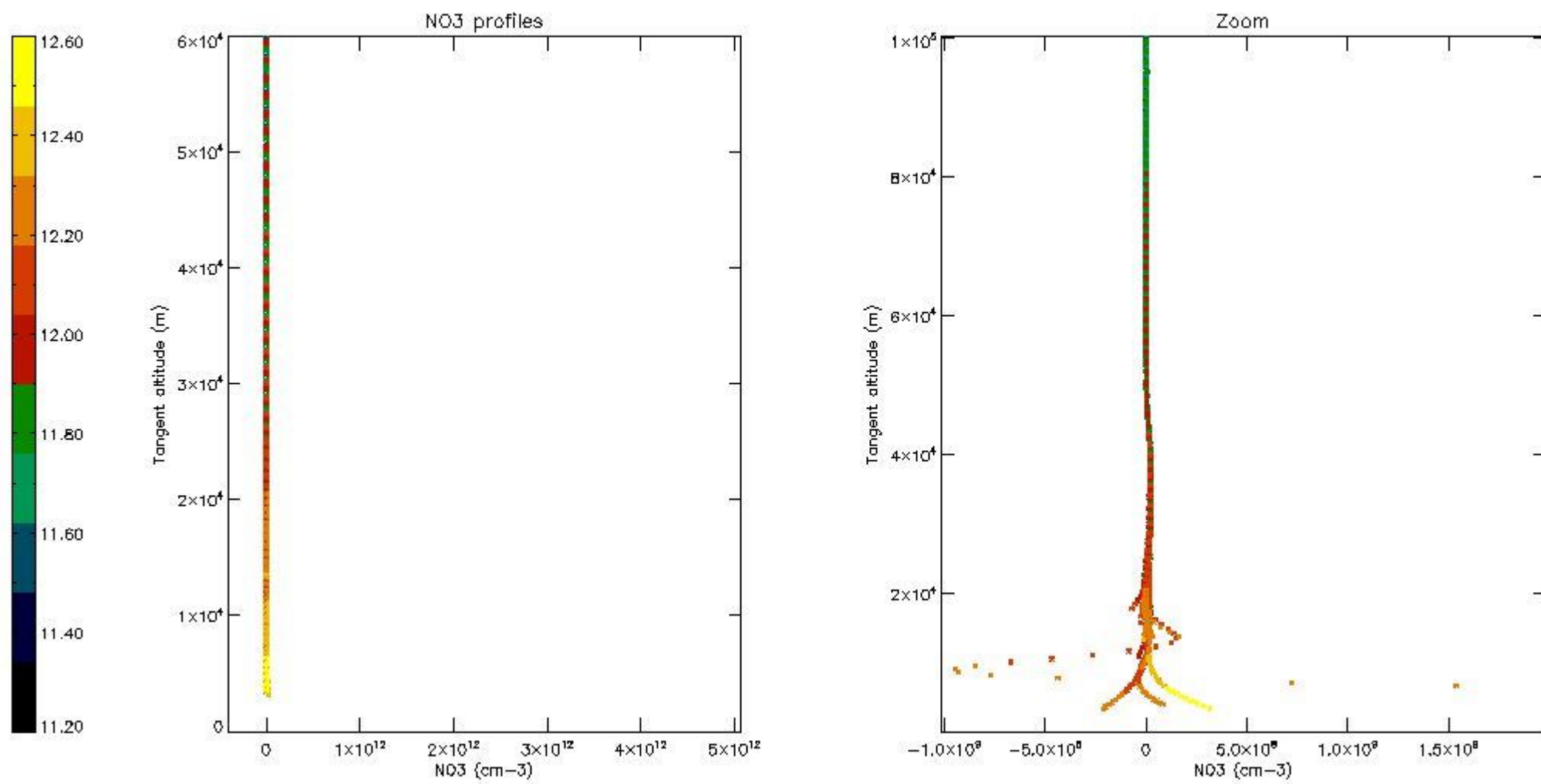
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



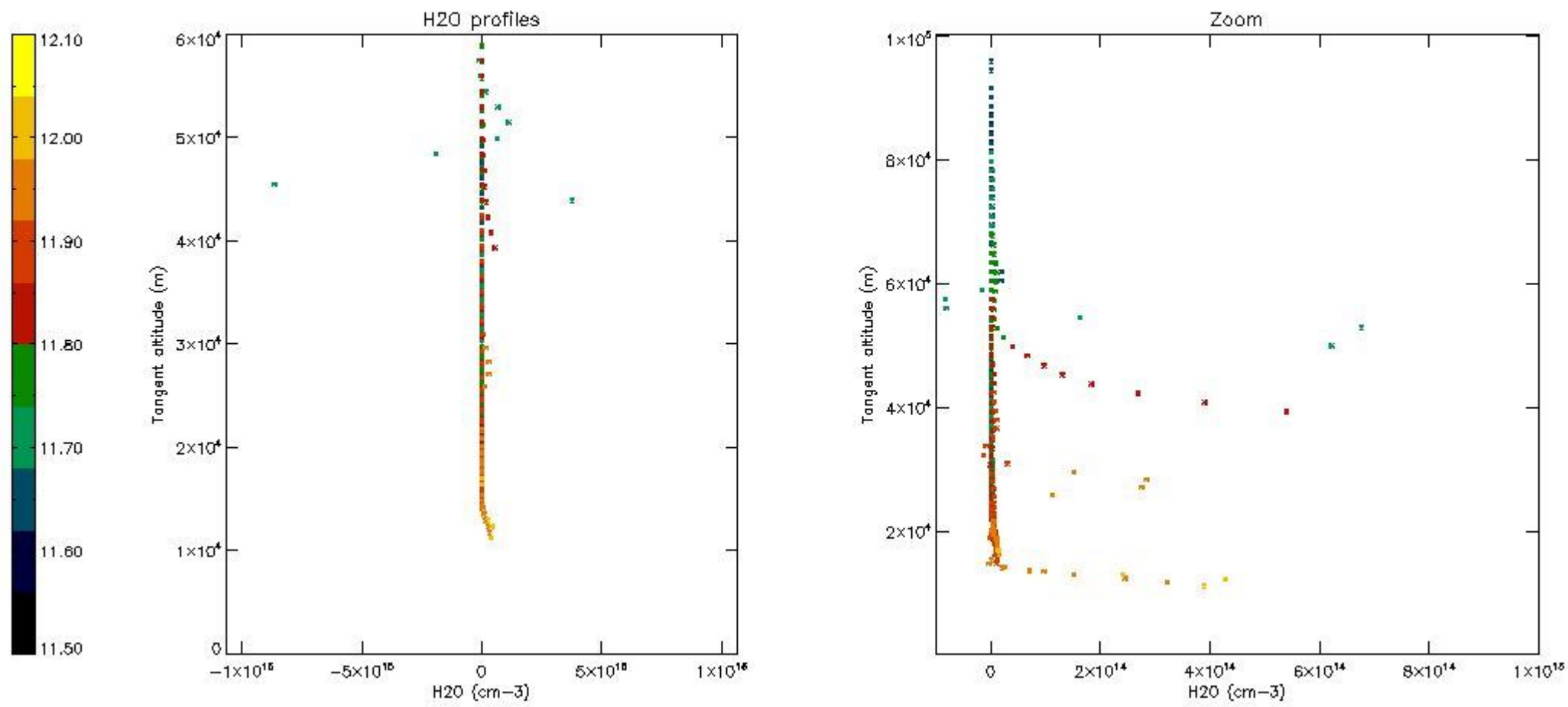
5.7 Plot NO3 profiles for all STD (dark without errors)

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_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	14-MAR-2012 00:50:49
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-MAR-2012 00:50:49
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-MAR-2012 00:50:49

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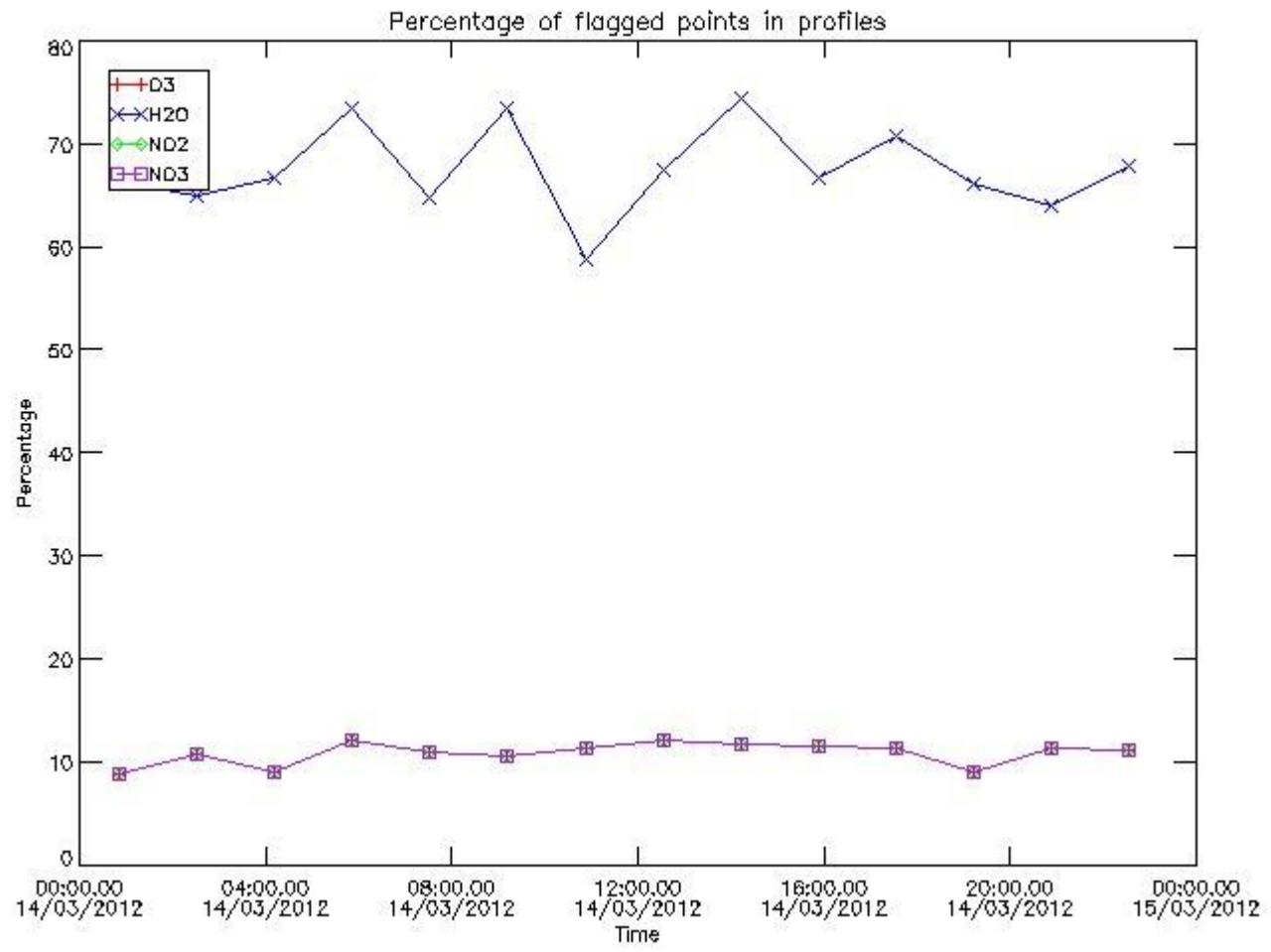
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10	GOM_NL__2PRFIN20120314_091201_000000573112_00338_52507_4671.N1	14-MAR-2012 09:12:01	Dark	56.500	4	Alp1Cen	-0.010000	5800.0	113	52507	No
11	GOM_NL__2PRFIN20120314_101237_000000373112_00338_52507_4672.N1	14-MAR-2012 10:12:37	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	52507	No
12	GOM_NL__2PRFIN20120314_105216_000000493112_00339_52508_4715.N1	14-MAR-2012 10:52:16	Dark	48.500	4	Alp1Cen	-0.010000	5800.0	97	52508	No
13	GOM_NL__2PRFIN20120314_115251_000000363112_00339_52508_4716.N1	14-MAR-2012 11:52:51	Bright	35.500	19	50Alp Cyg	1.2460	10500.	71	52508	No
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19	GOM_NL__2PRFIN20120314_165333_000000363112_00342_52511_4844.N1	14-MAR-2012 16:53:33	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	52511	No
20	GOM_NL__2PRFIN20120314_173314_000000453112_00343_52512_4867.N1	14-MAR-2012 17:33:14	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	52512	No
21	GOM_NL__2PRFIN20120314_183346_000000363112_00343_52512_4868.N1	14-MAR-2012 18:33:46	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	52512	No
22	GOM_NL__2PRFIN20120314_191328_000000563112_00344_52513_4889.N1	14-MAR-2012 19:13:28	Dark	56.000	4	Alp1Cen	-0.010000	5800.0	112	52513	No
23	GOM_NL__2PRFIN20120314_201401_000000363112_00344_52513_4890.N1	14-MAR-2012 20:14:01	Bright	35.500	19	50Alp Cyg	1.2460	10500.	71	52513	No
24	GOM_NL__2PRFIN20120314_205342_000000453112_00345_52514_4940.N1	14-MAR-2012 20:53:42	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	52514	No
25	GOM_NL__2PRFIN20120314_215415_000000383112_00345_52514_4941.N1	14-MAR-2012 21:54:15	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	52514	No
26	GOM_NL__2PRFIN20120314_223357_000000463112_00346_52515_4949.N1	14-MAR-2012 22:33:57	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	52515	No
27	GOM_NL__2PRFIN20120314_233429_000000353112_00346_52515_4950.N1	14-MAR-2012 23:34:29	Bright	35.000	19	50Alp Cyg	1.2460	10500.	70	52515	No

3. Quality information per product

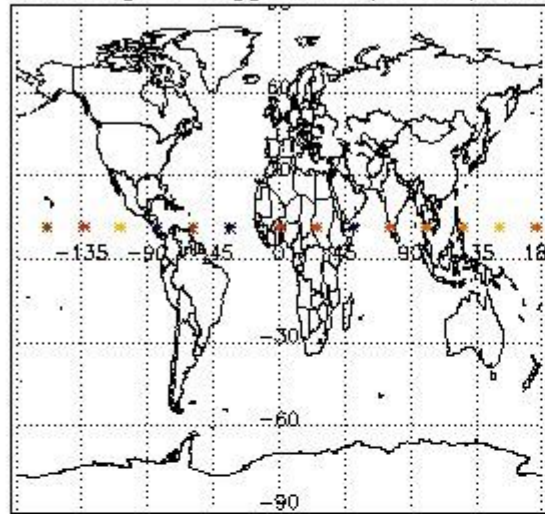
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

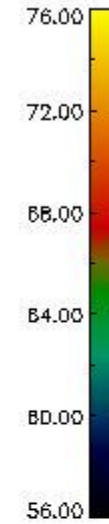
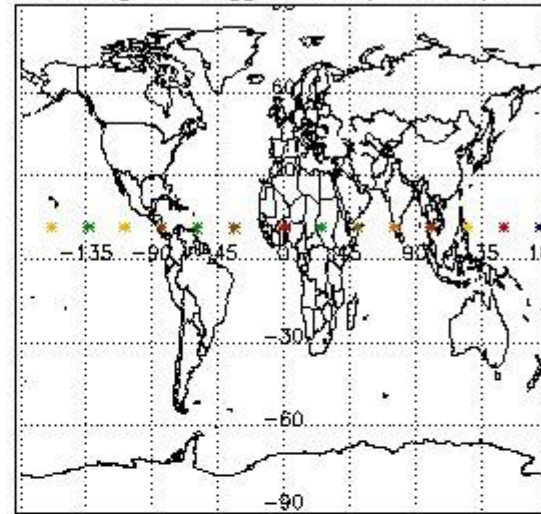


3.2 Plot quality information per product (world map)

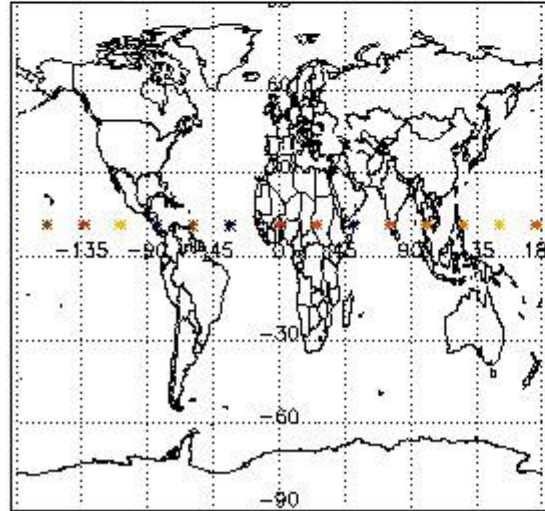
Percentage of flagged data per O3 profile



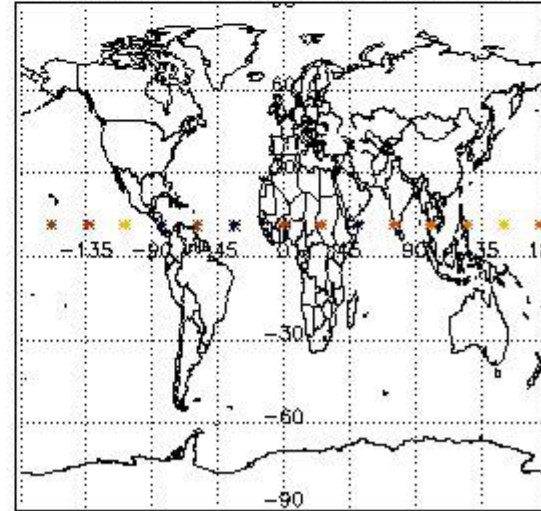
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

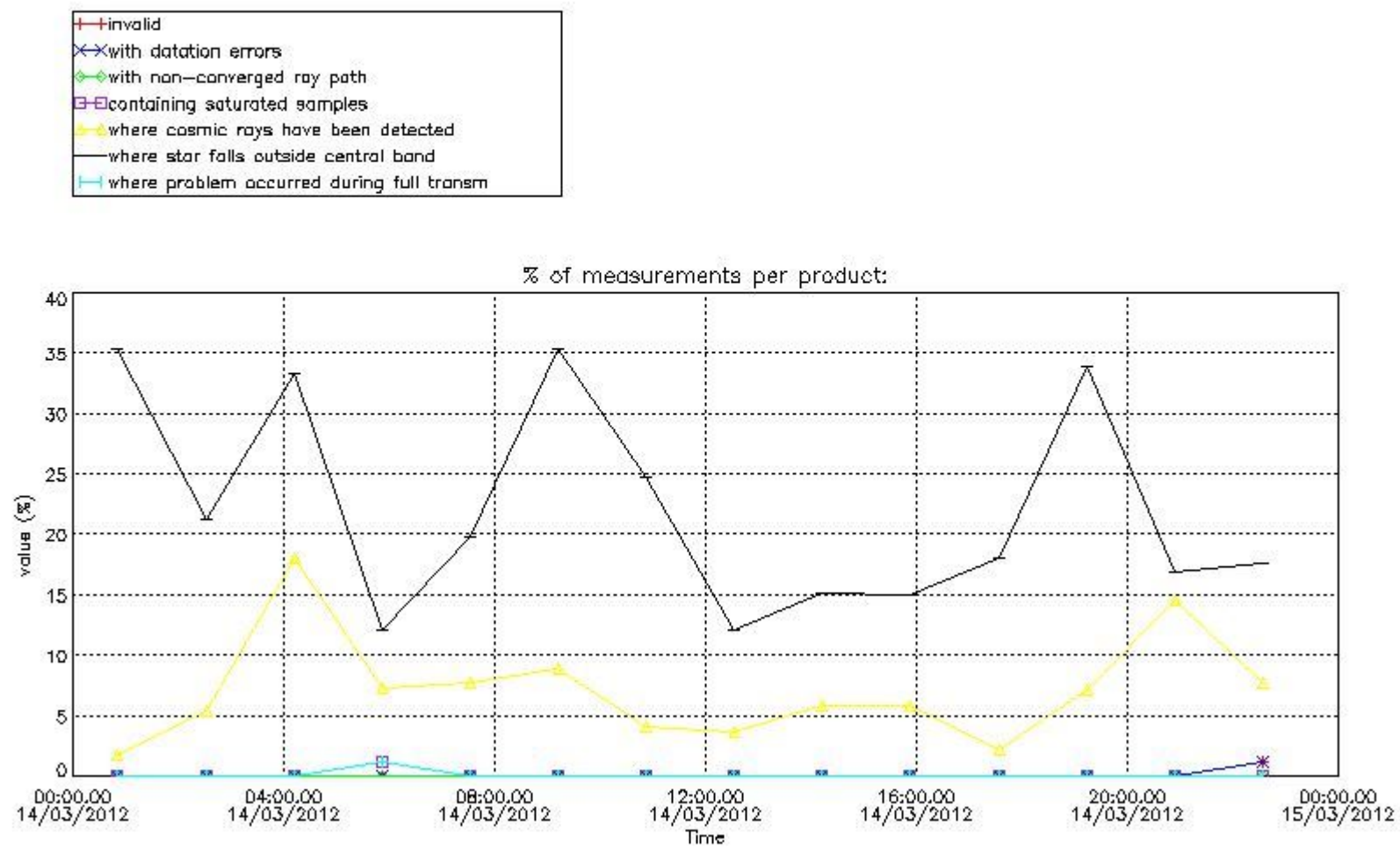


4. Level 1 quality information per product

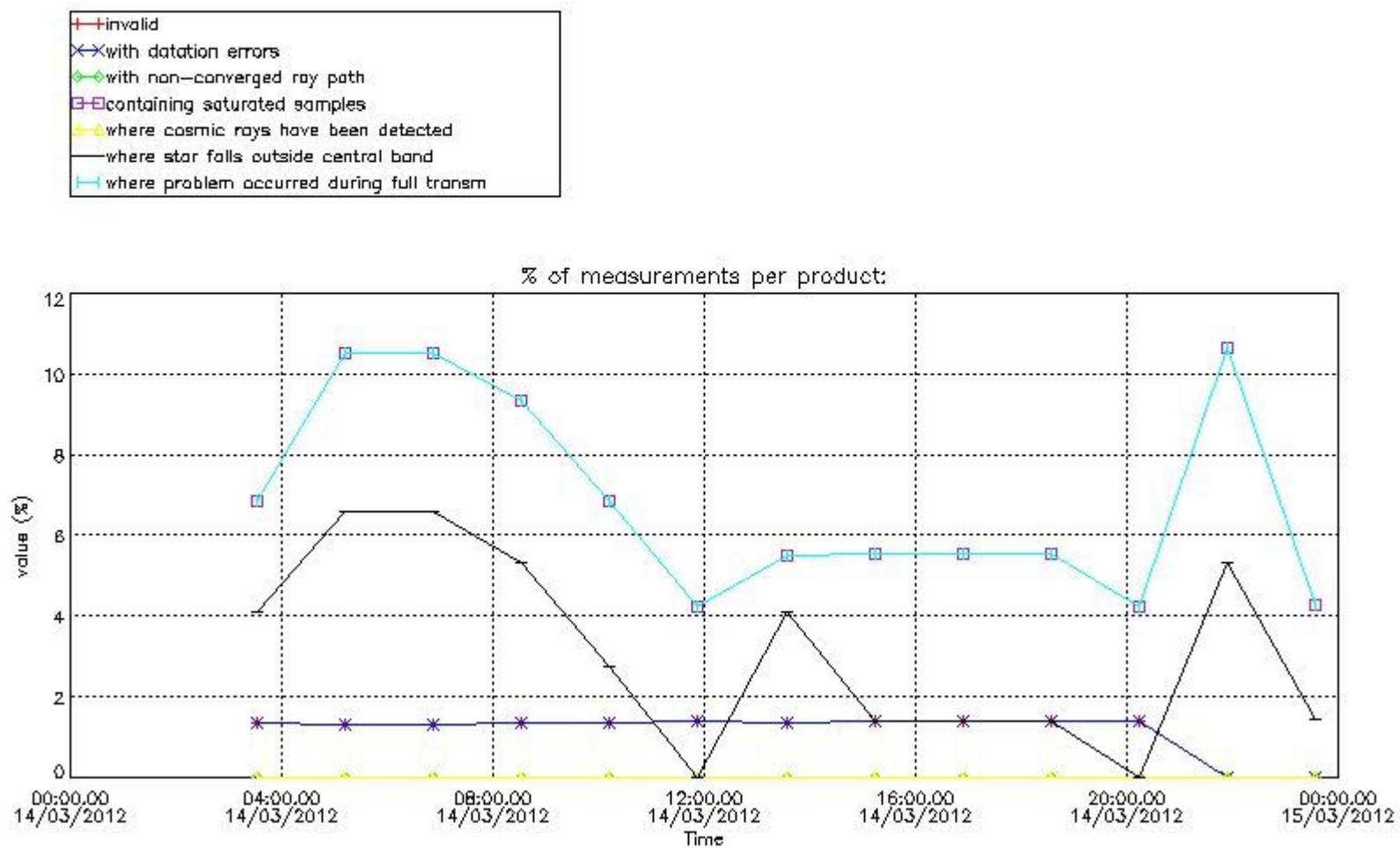
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



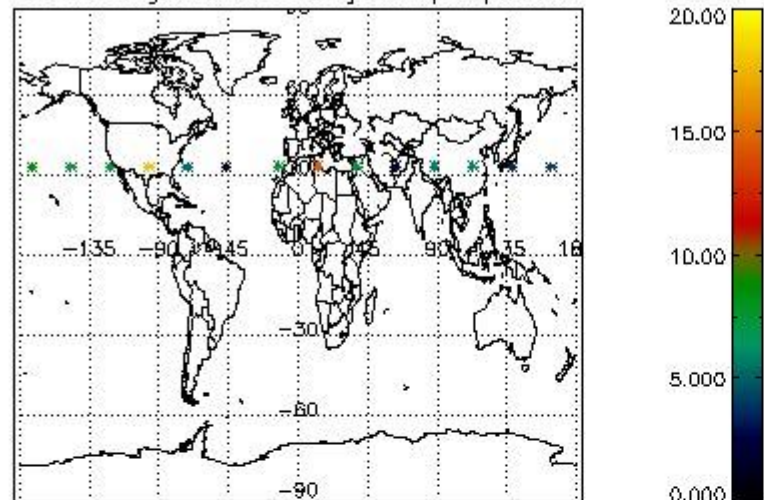
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



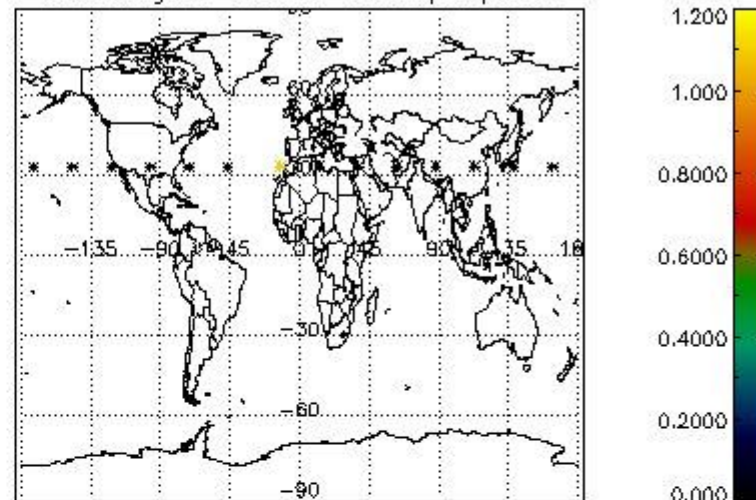
4.2 Plot quality information per product coming from level 1b processing (world map)

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

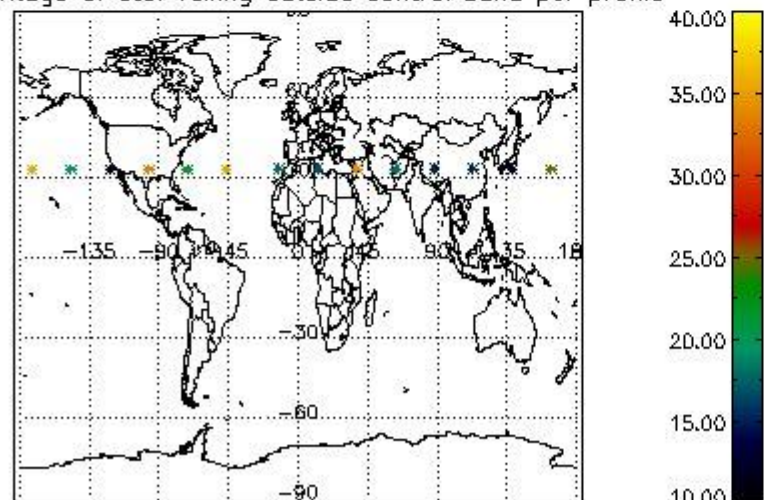
Percentage of cosmic ray hits per profile



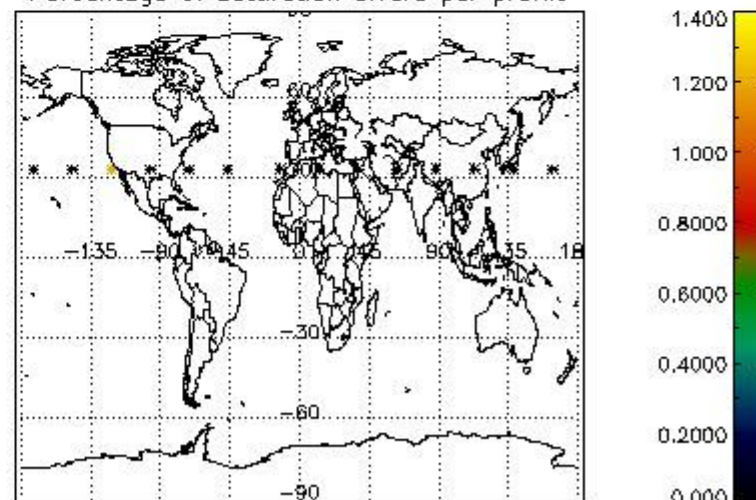
Percentage of datation errors per profile



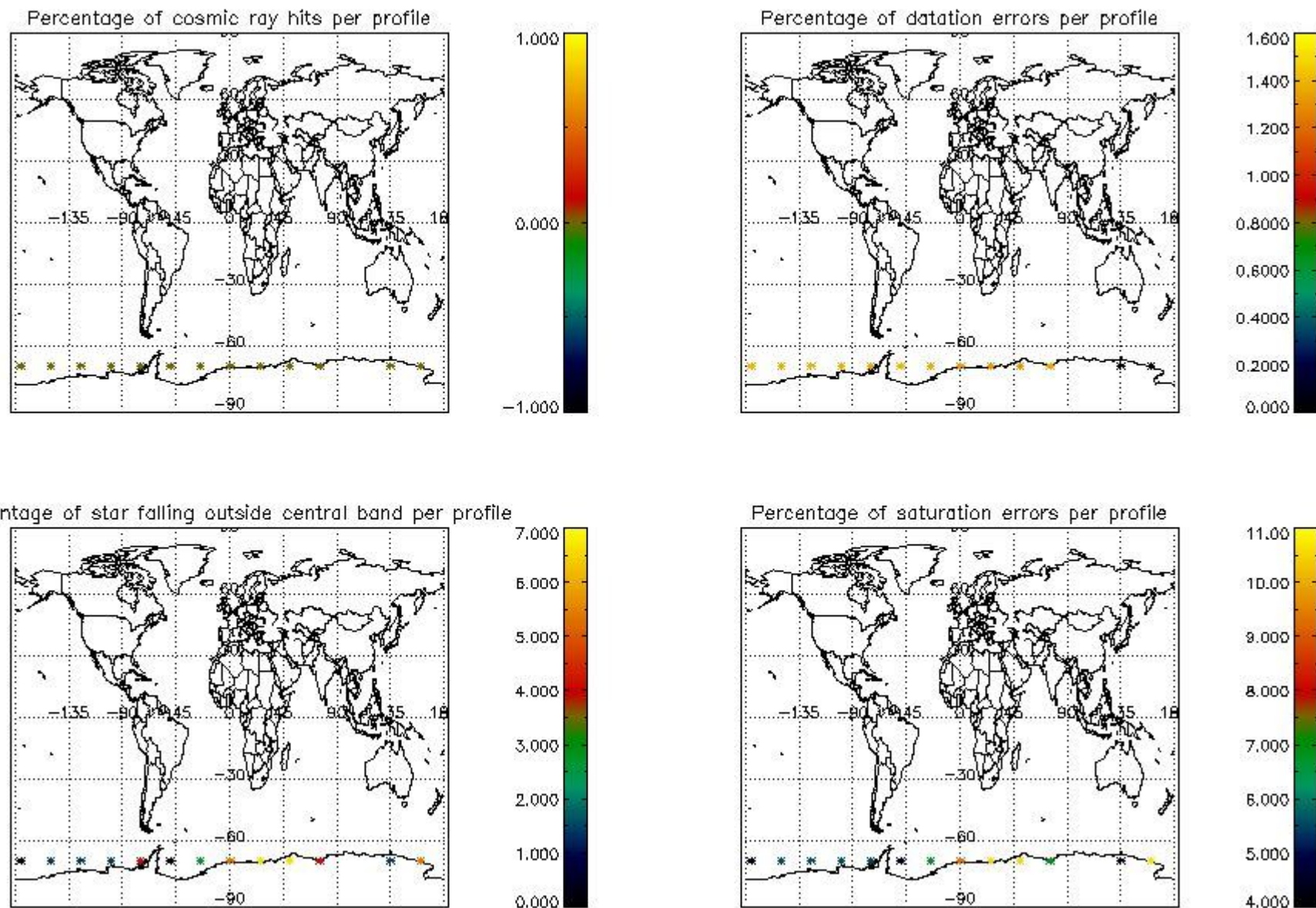
Percentage of star falling outside central band per profile



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

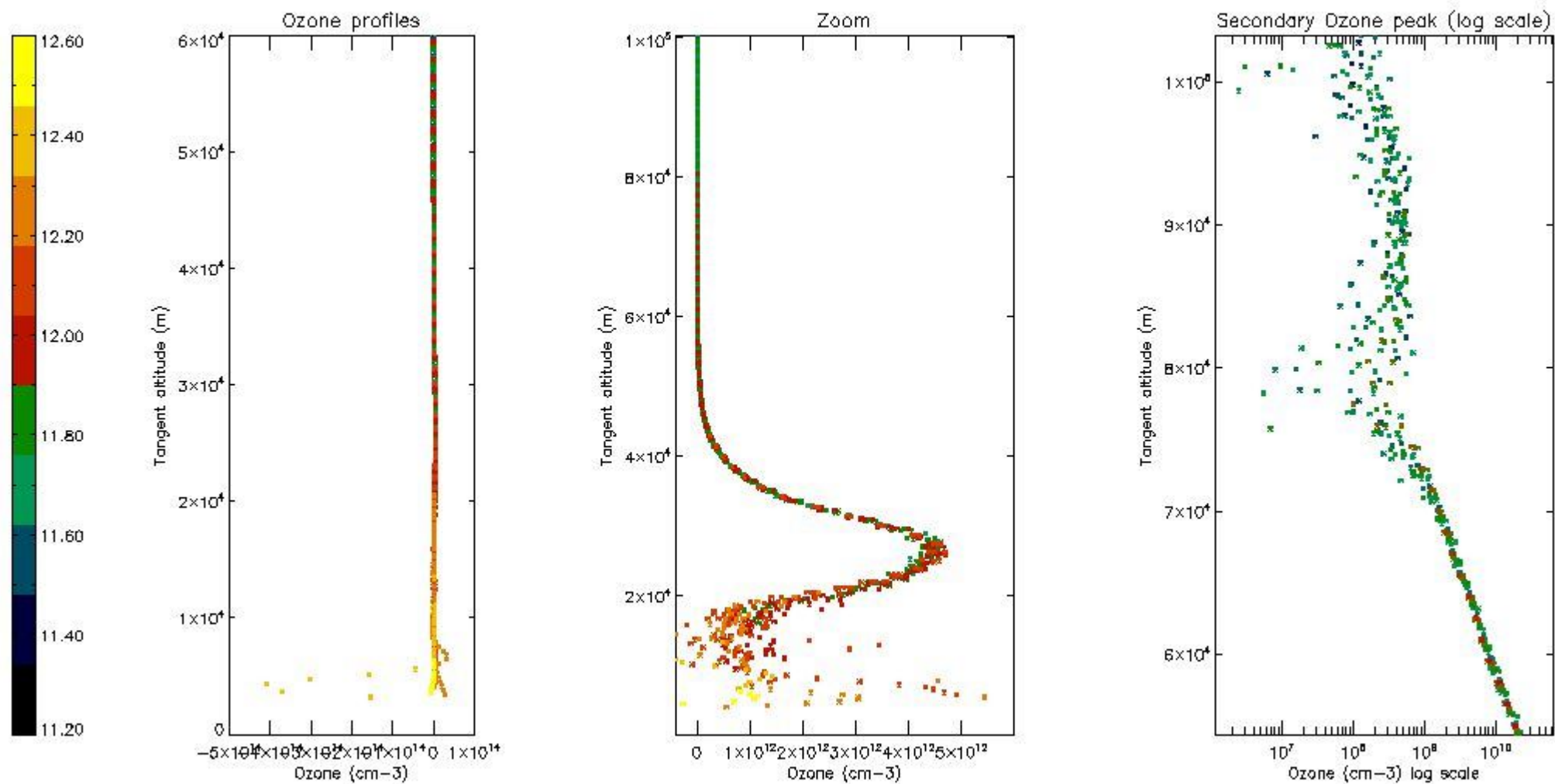
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	60
STD < 20	30

STD < 10	26
STD < 5	21

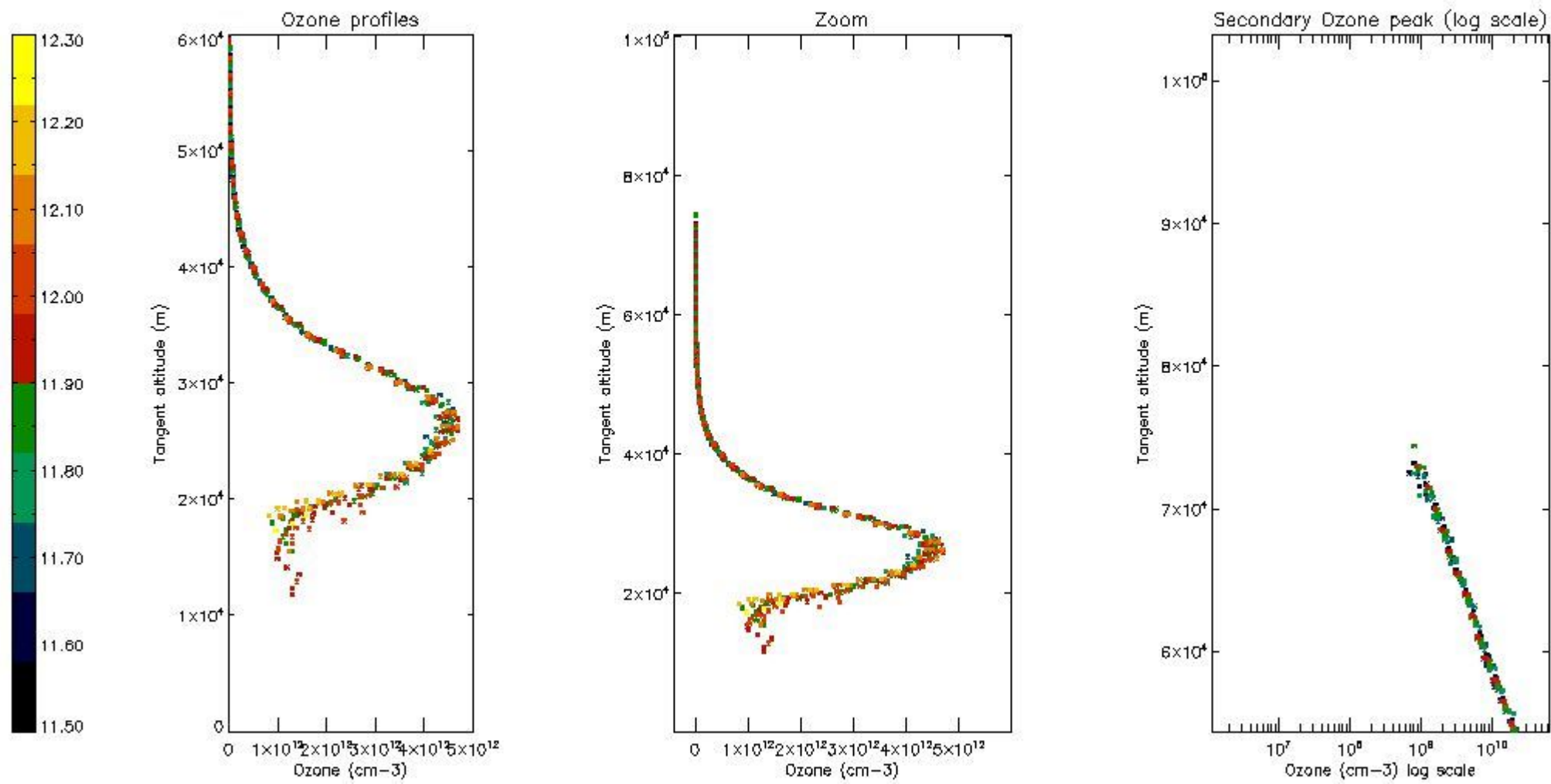
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



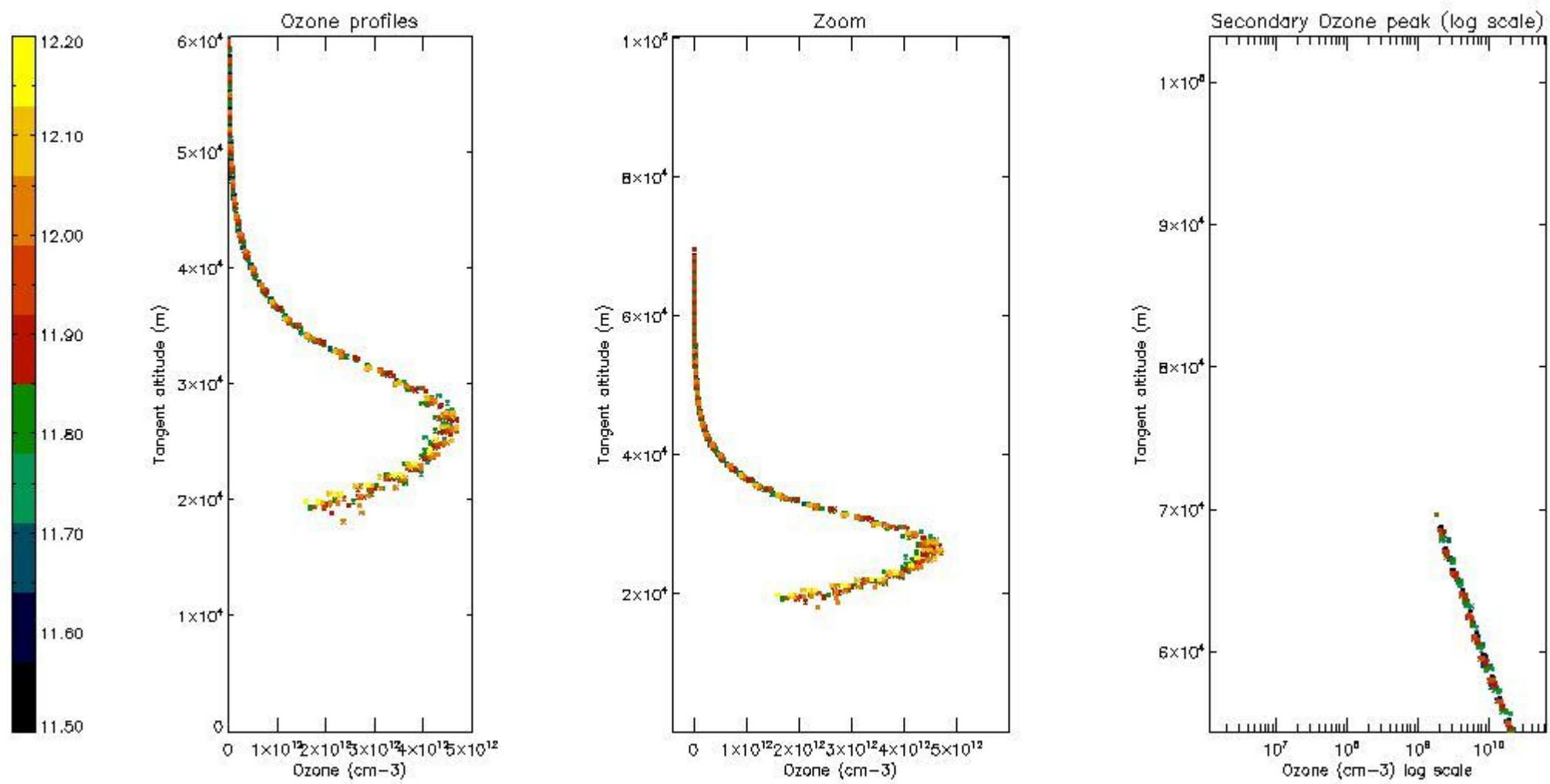
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



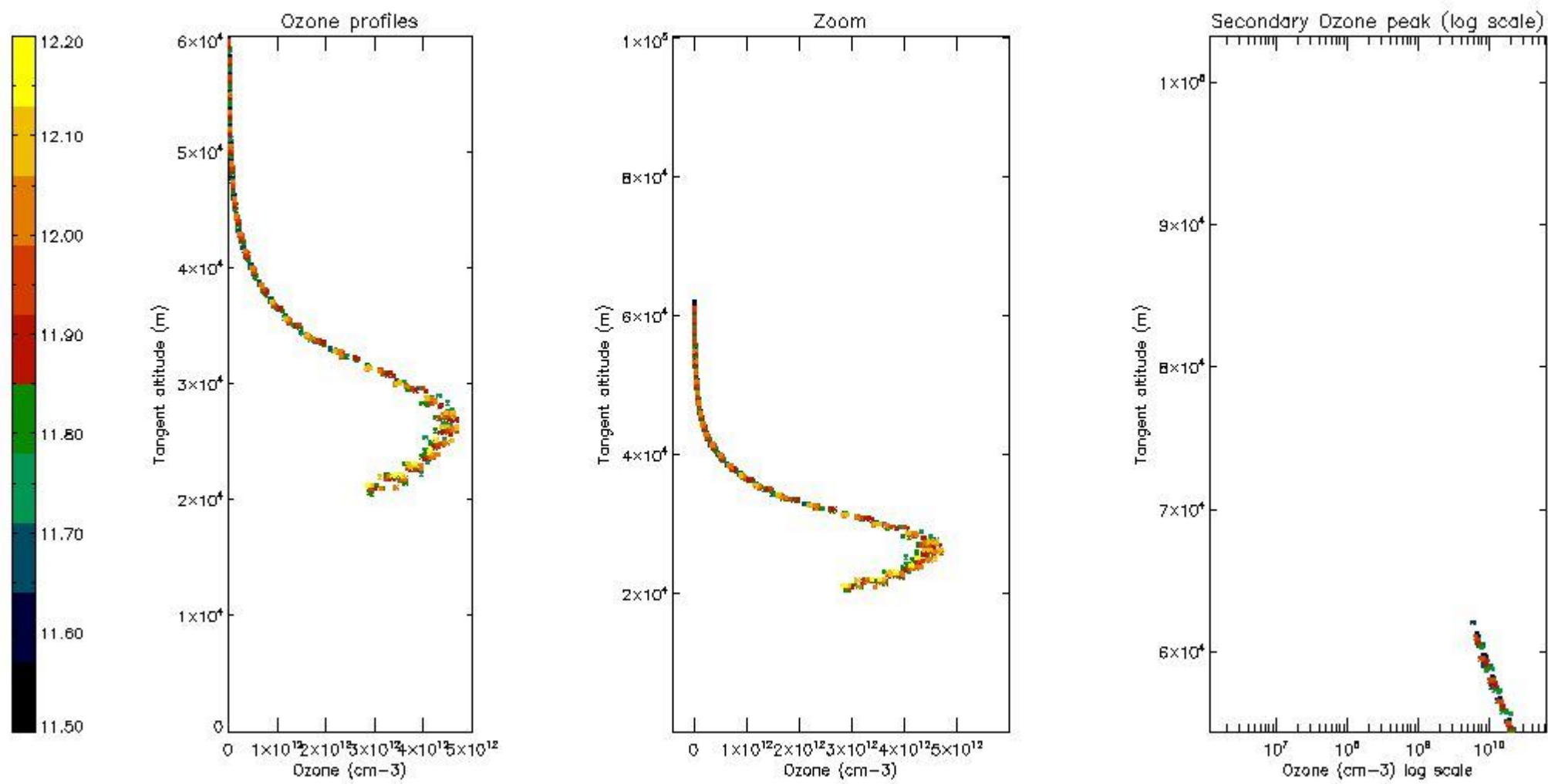
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



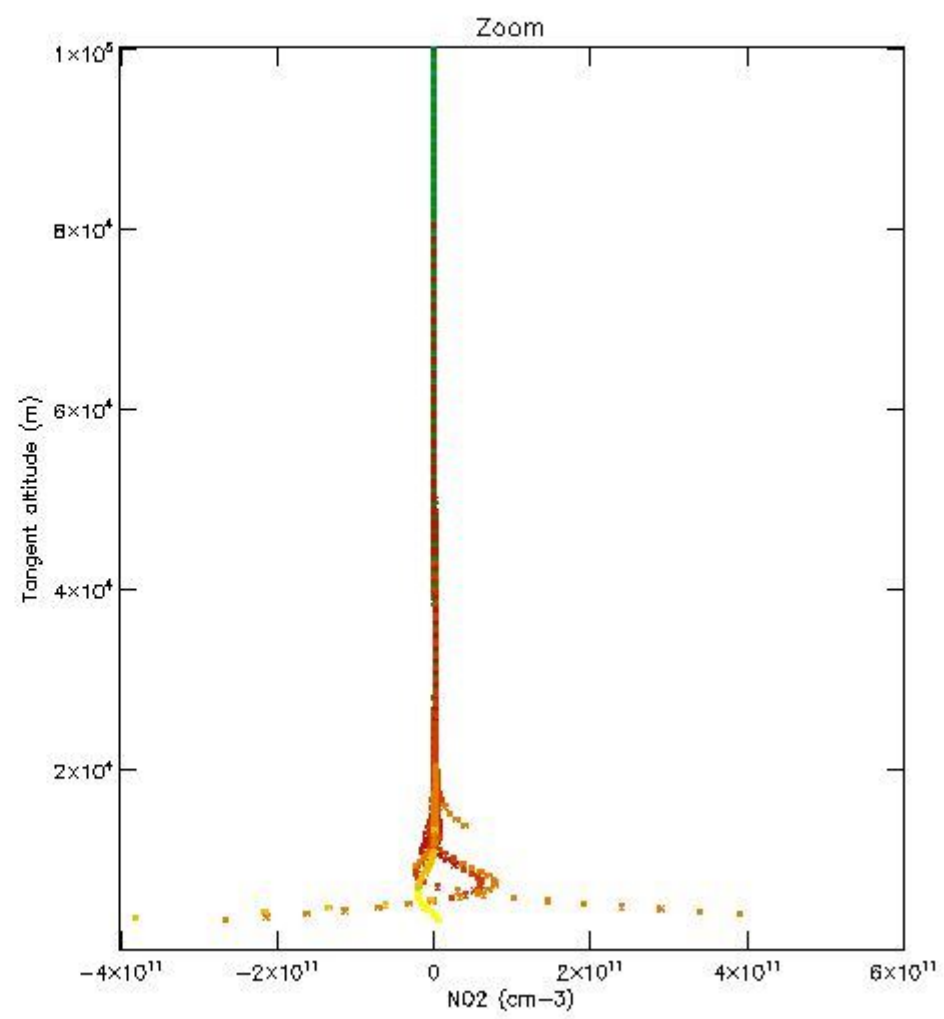
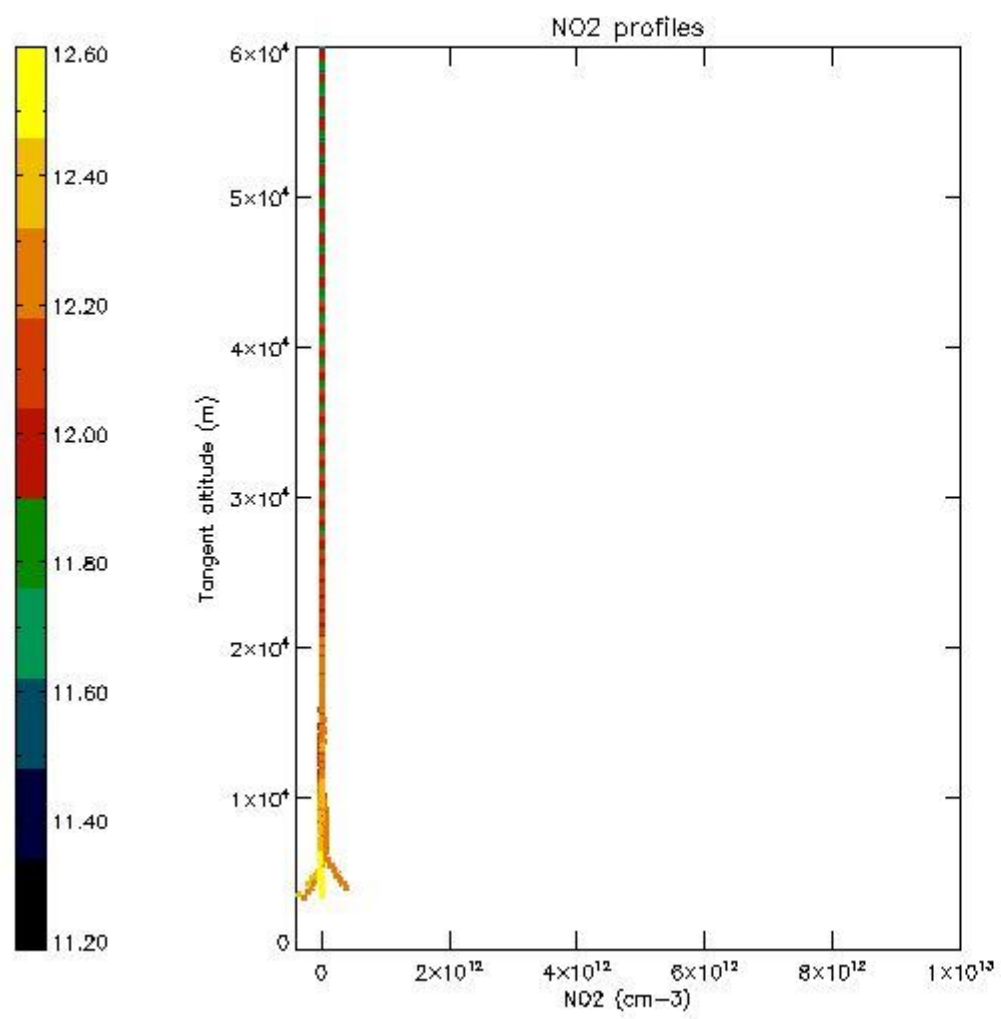
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



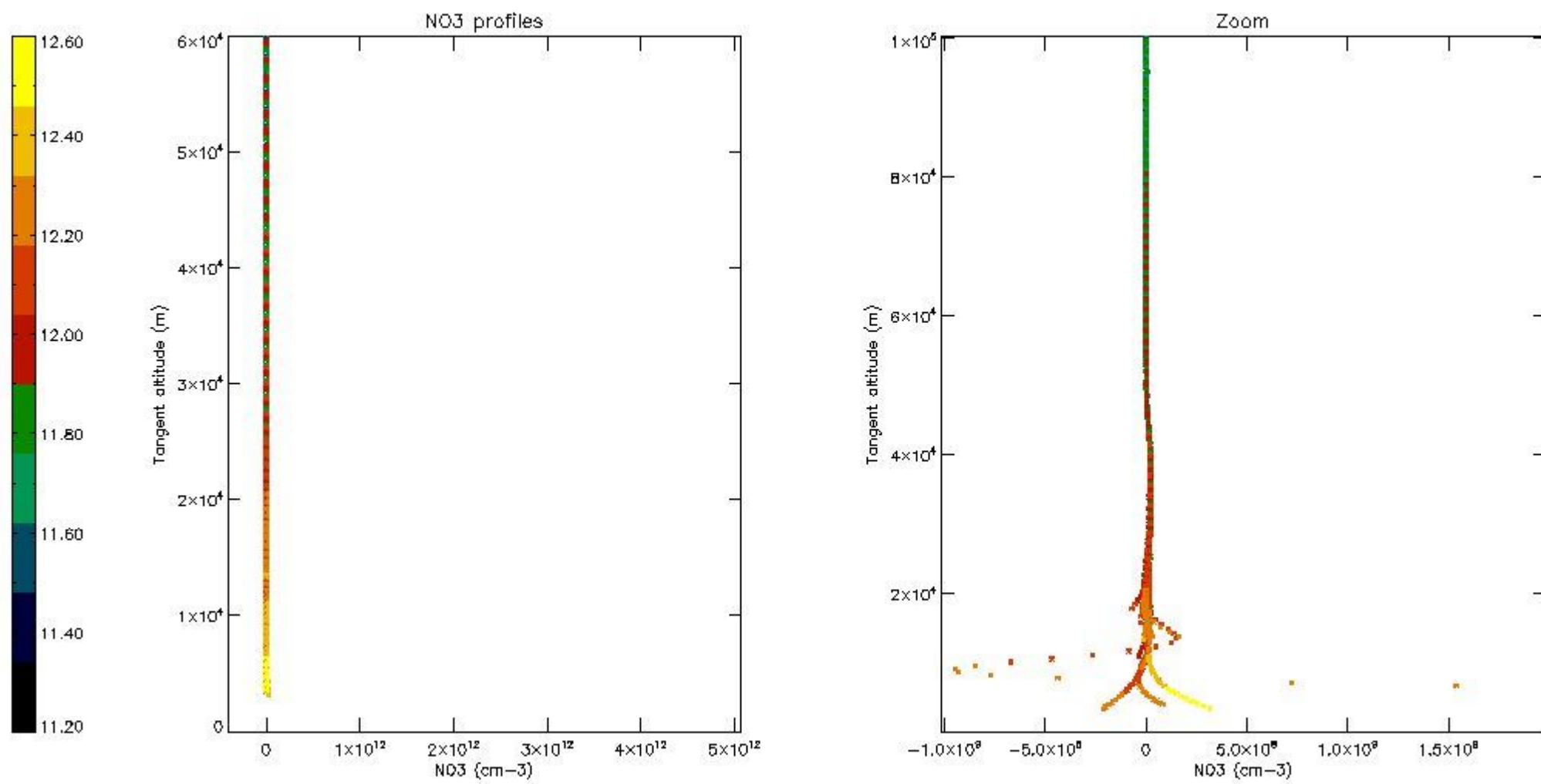
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



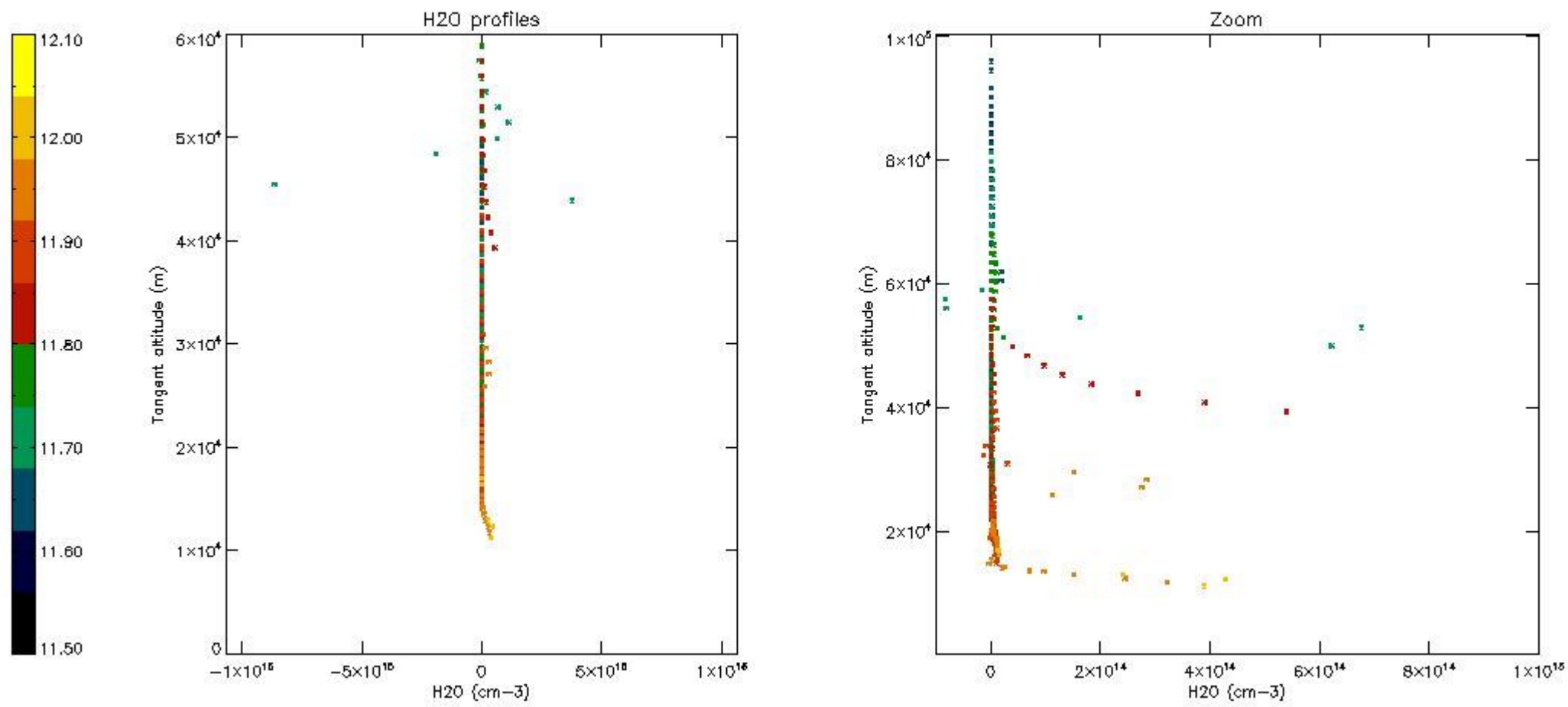
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

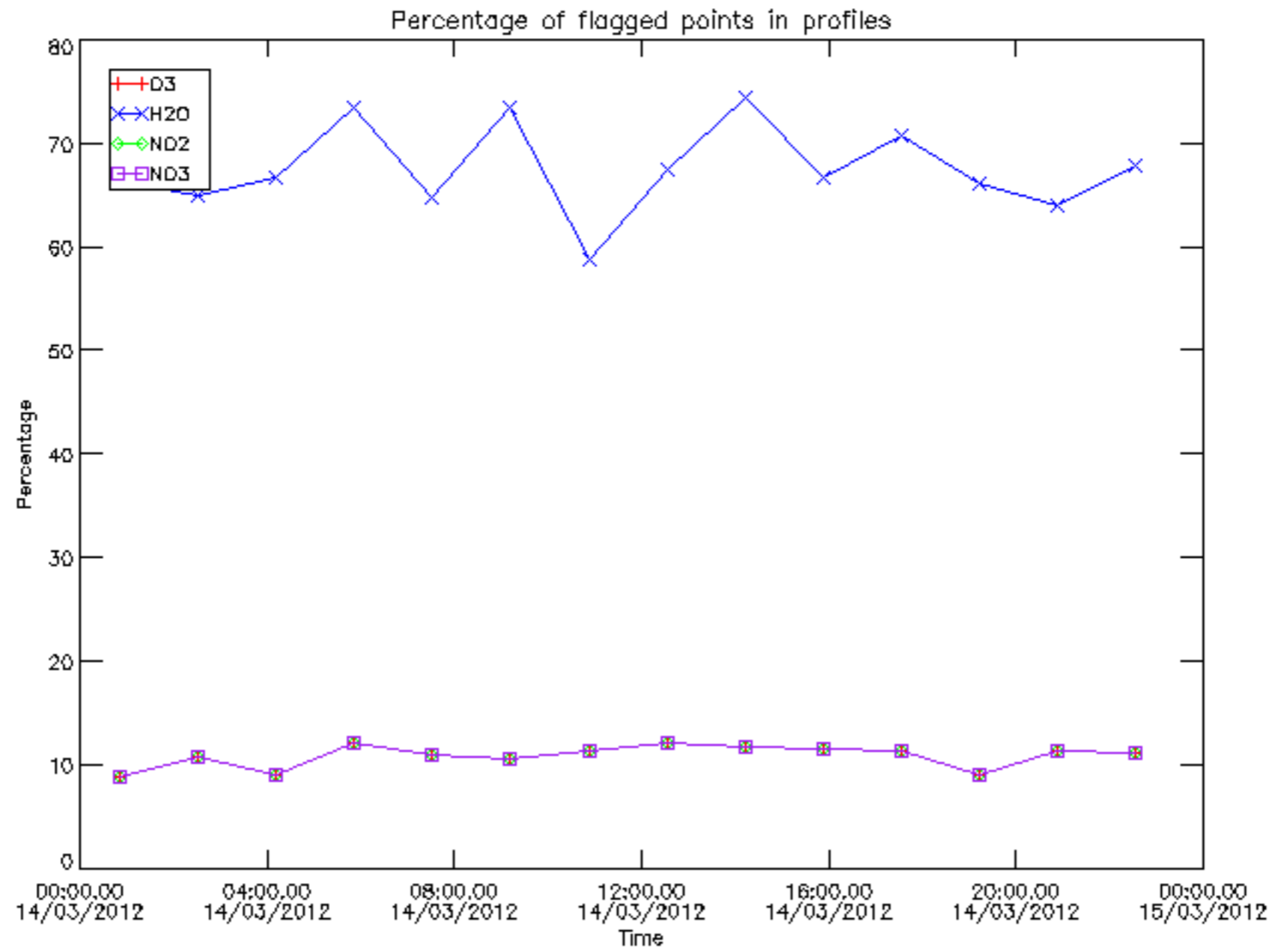
The colorbar represents the latitude.



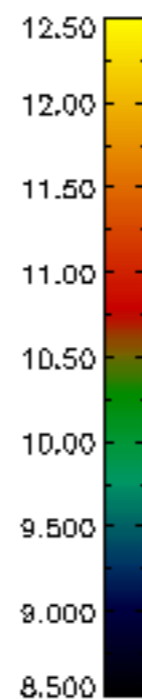
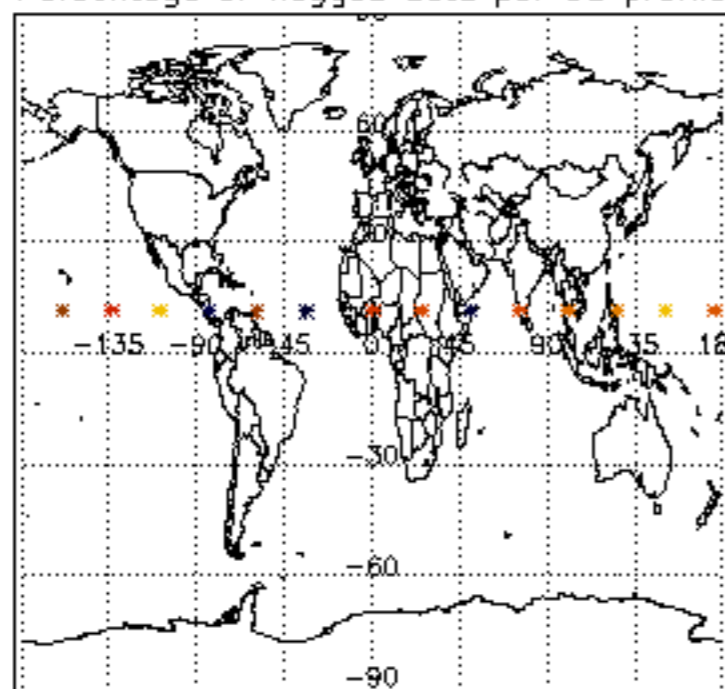
6. Auxiliary Data Files used for the production reported in section 2

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.

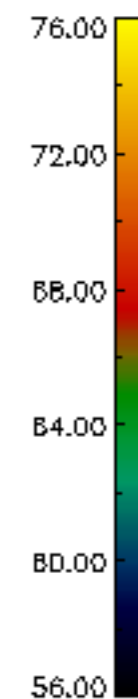
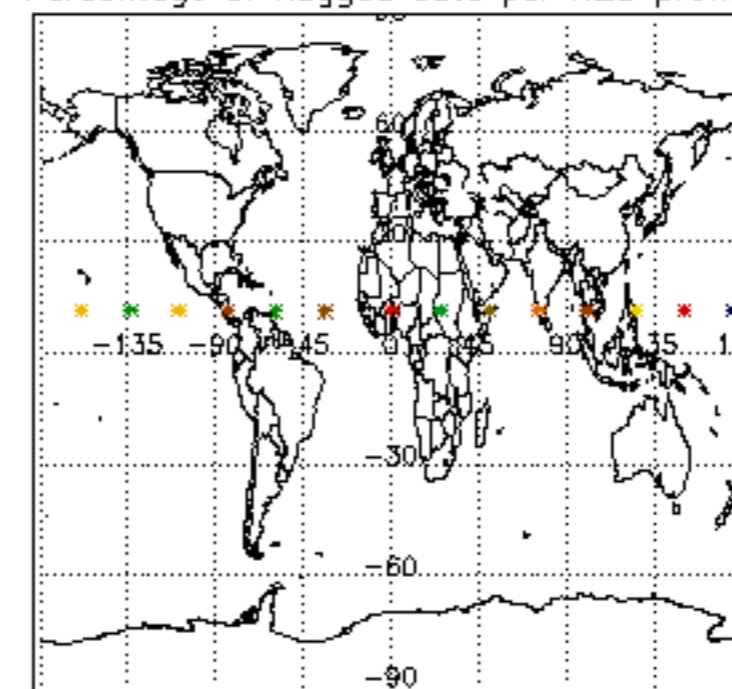
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	14-MAR-2012 00:50:49
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-MAR-2012 00:50:49
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-MAR-2012 00:50:49



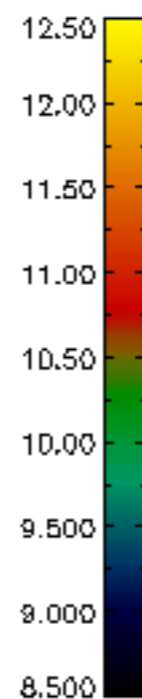
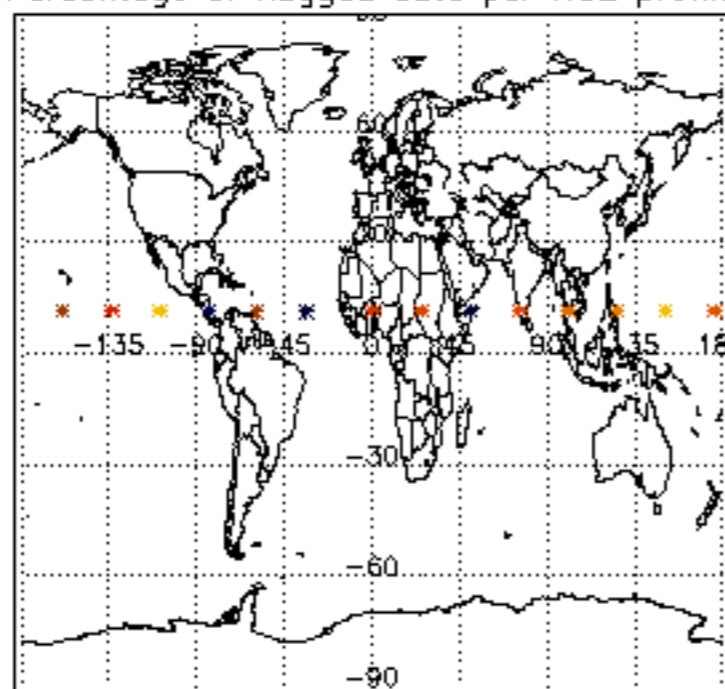
Percentage of flagged data per D3 profile



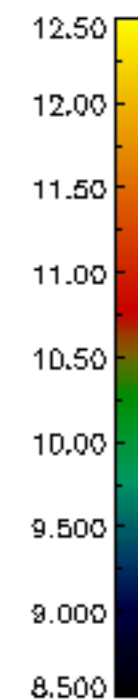
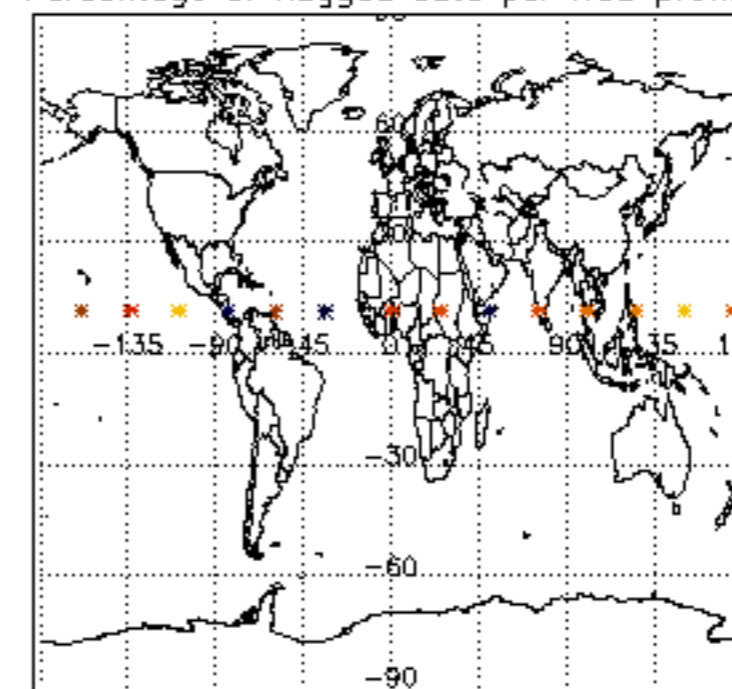
Percentage of flagged data per H2O profile

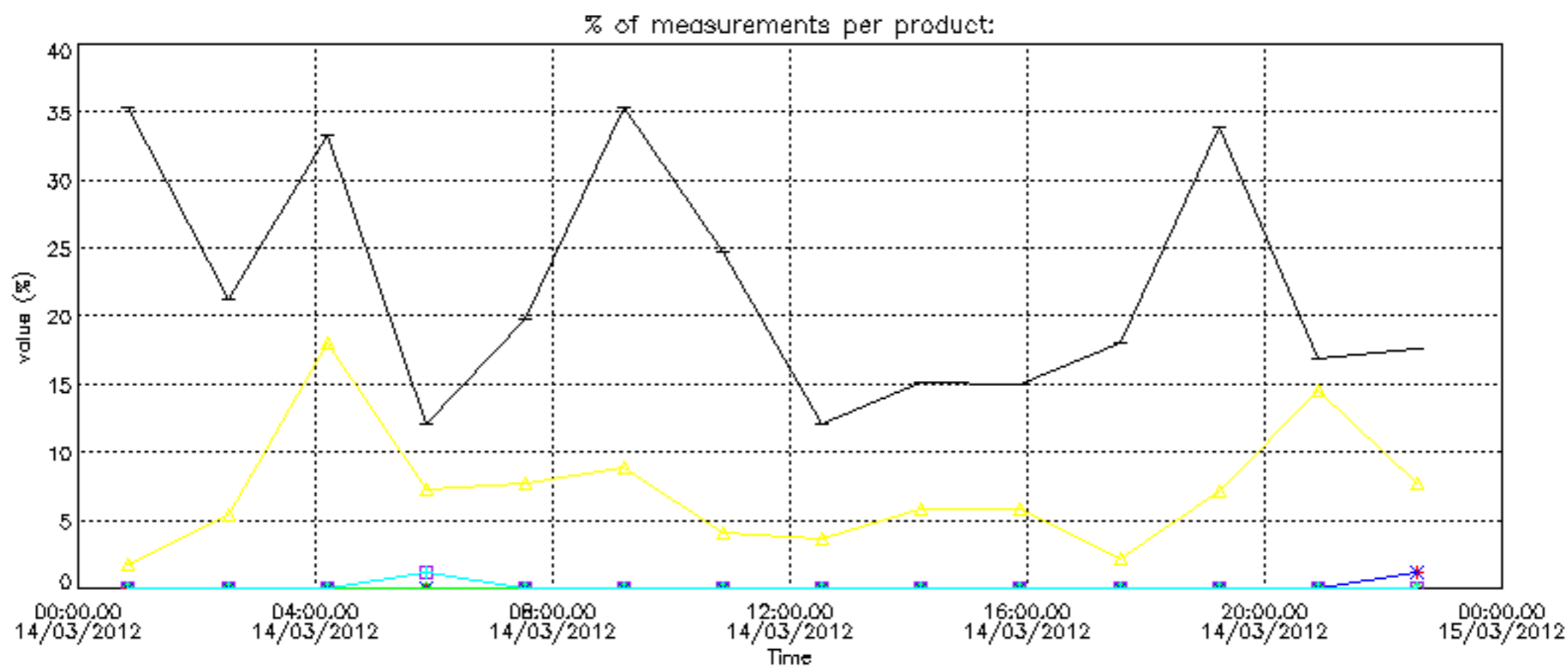


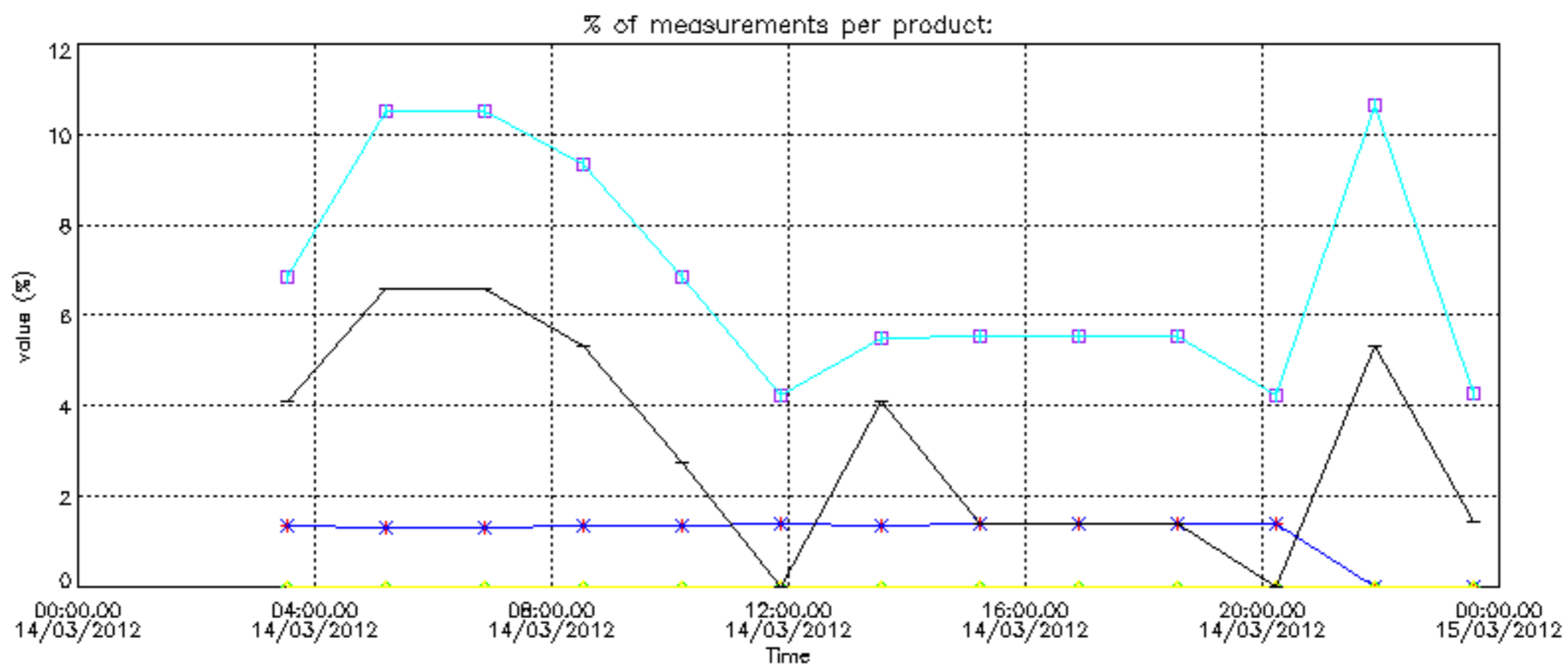
Percentage of flagged data per NO2 profile



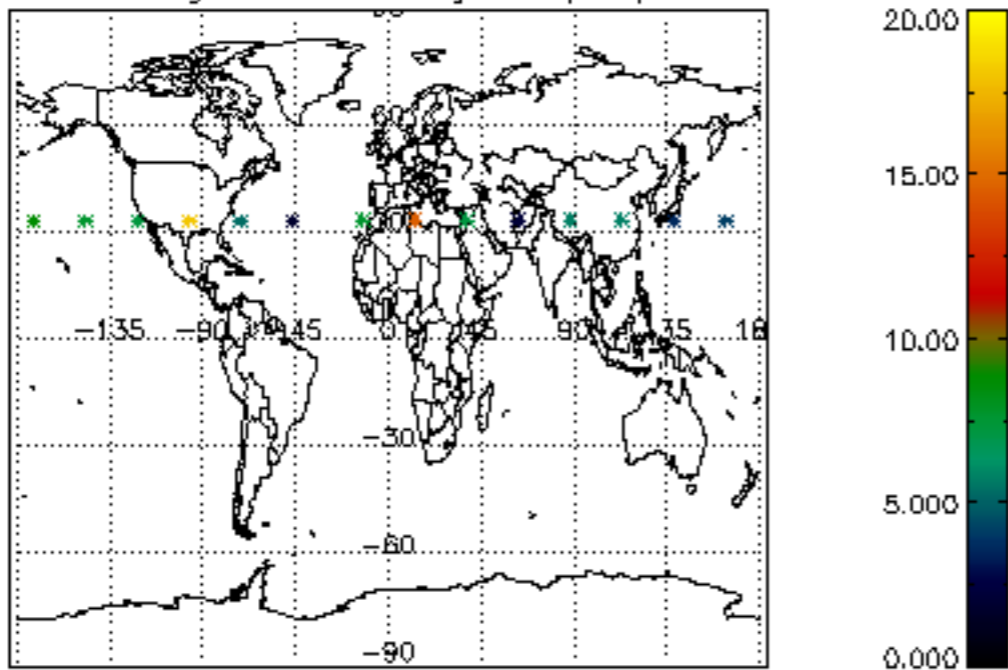
Percentage of flagged data per NO3 profile



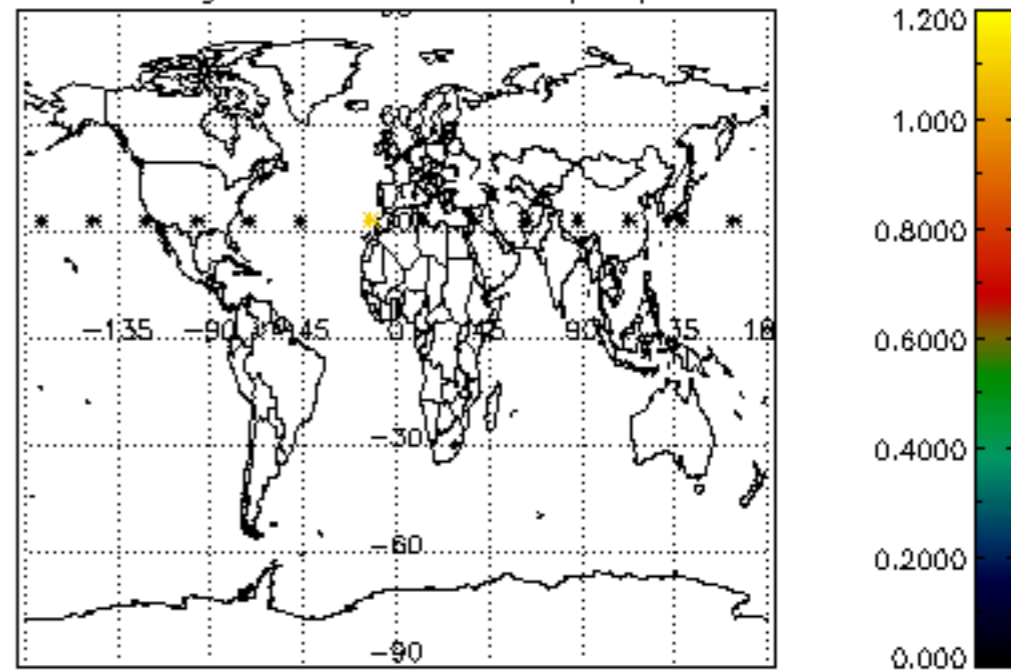




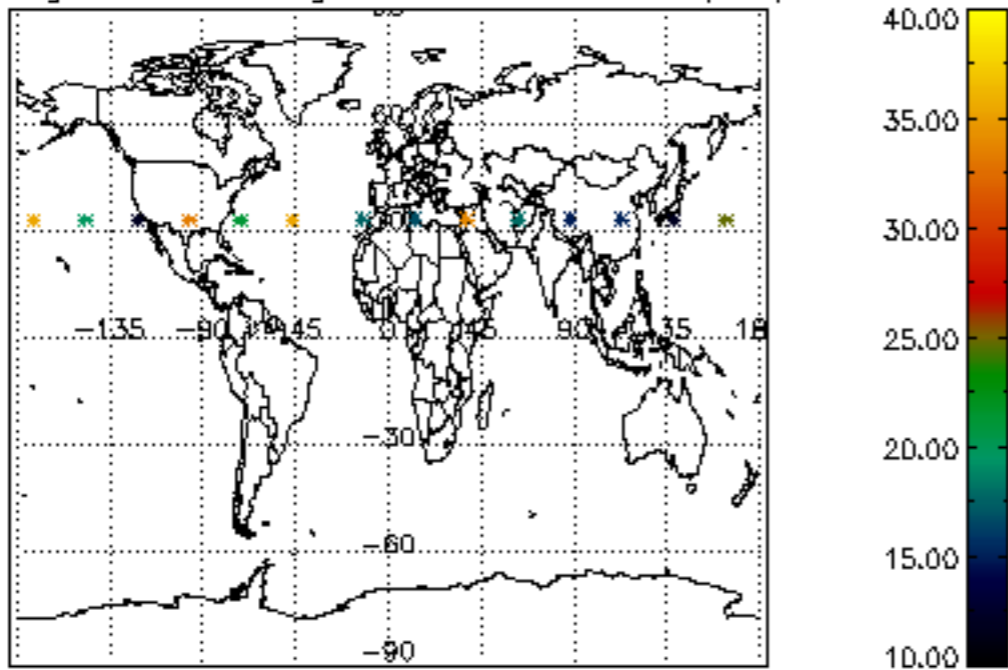
Percentage of cosmic ray hits per profile



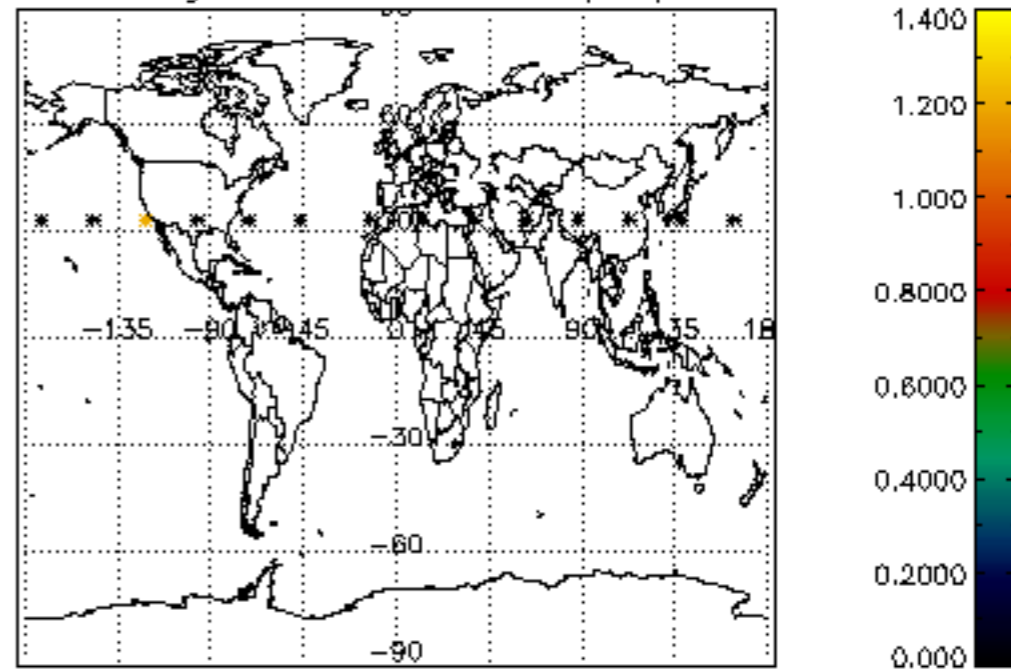
Percentage of datation errors per profile



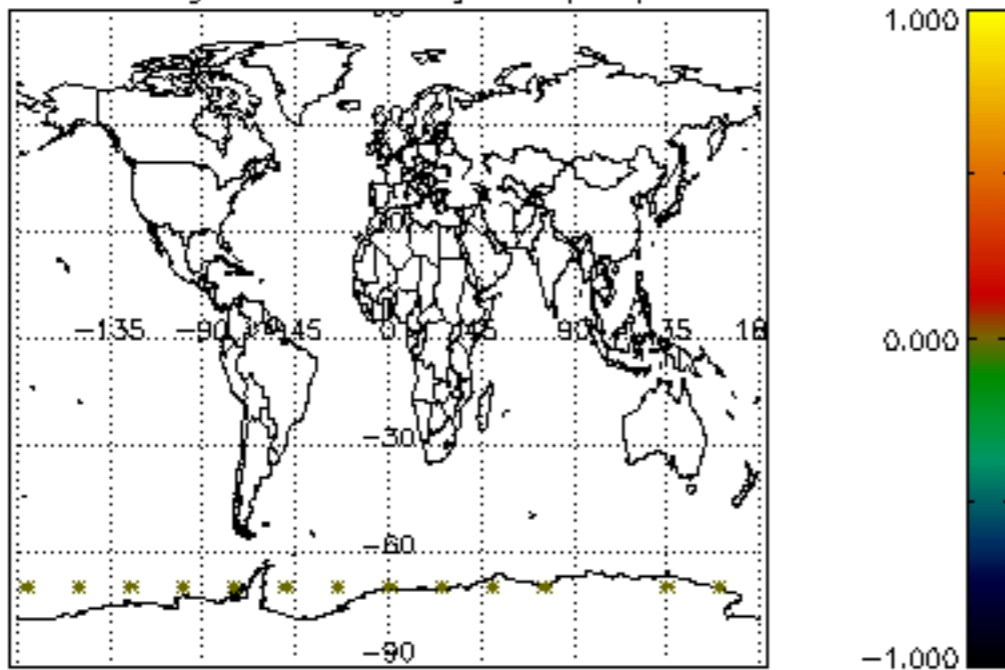
Percentage of star falling outside central band per profile



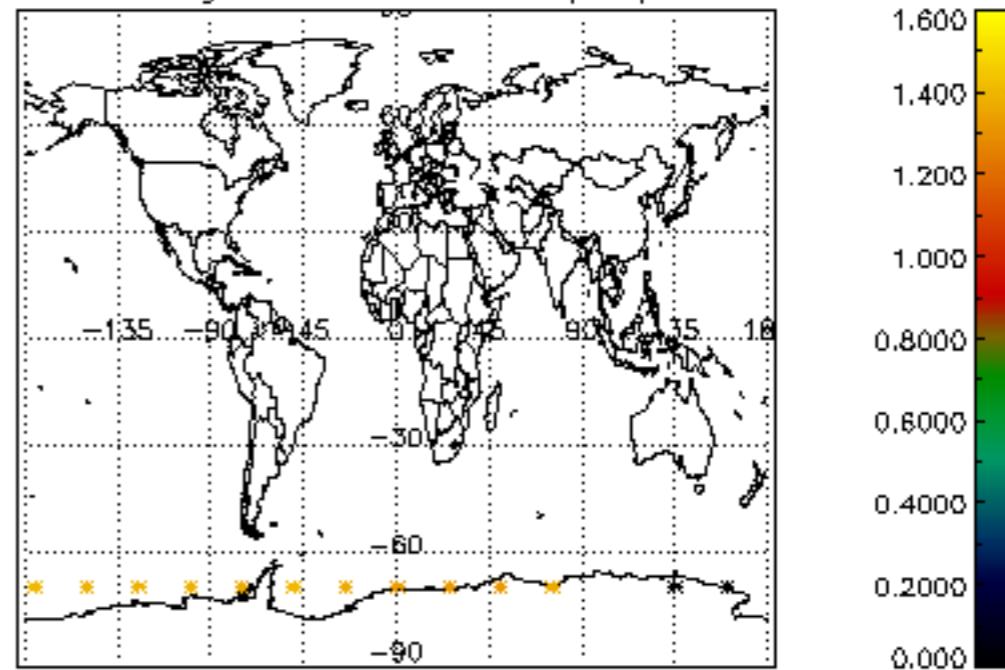
Percentage of saturation errors per profile



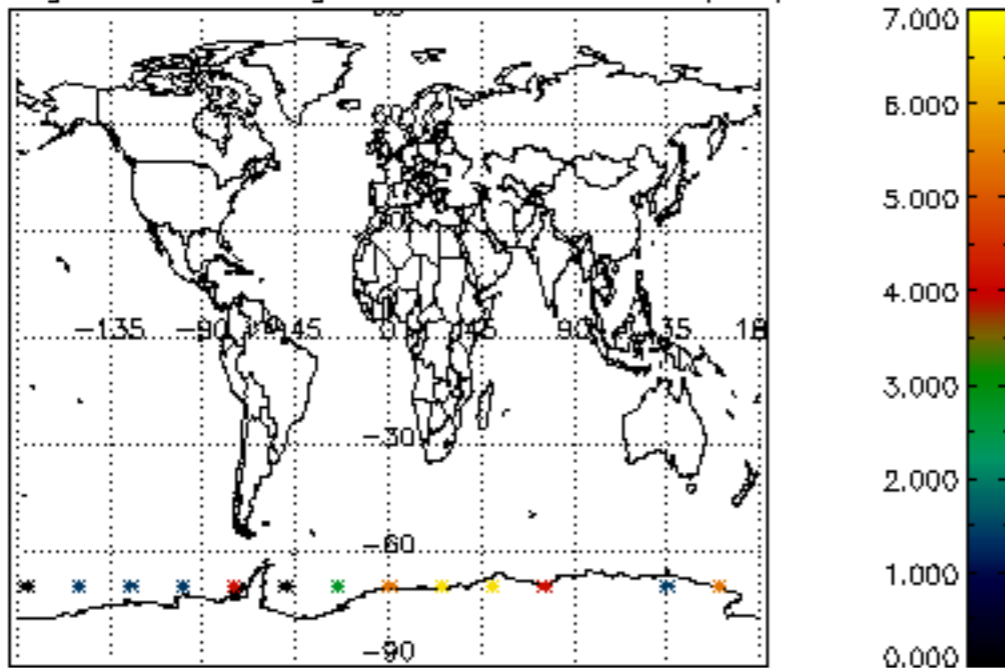
Percentage of cosmic ray hits per profile



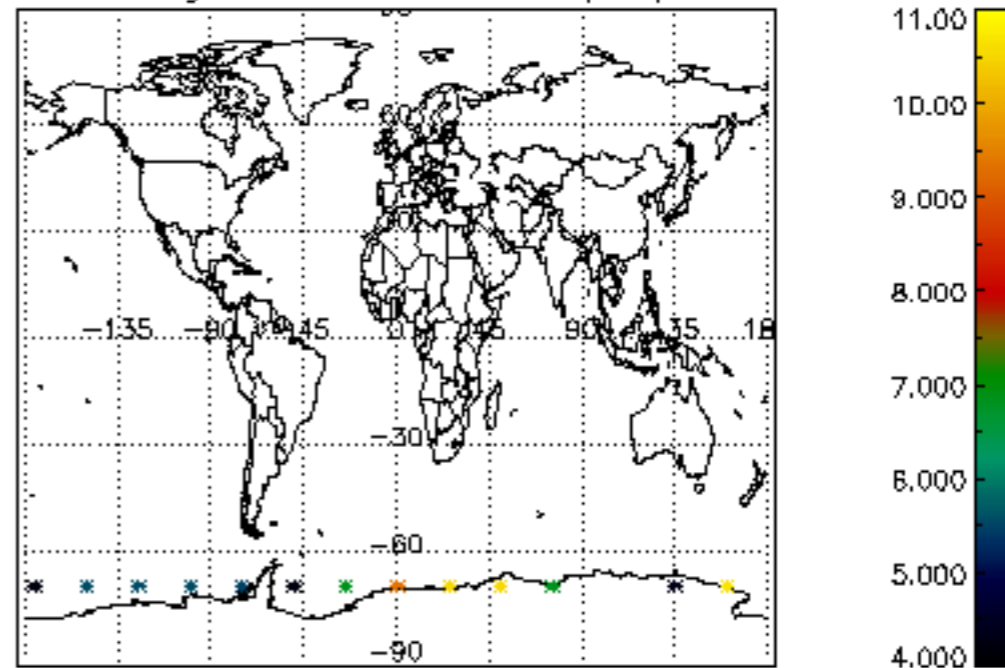
Percentage of datation errors per profile

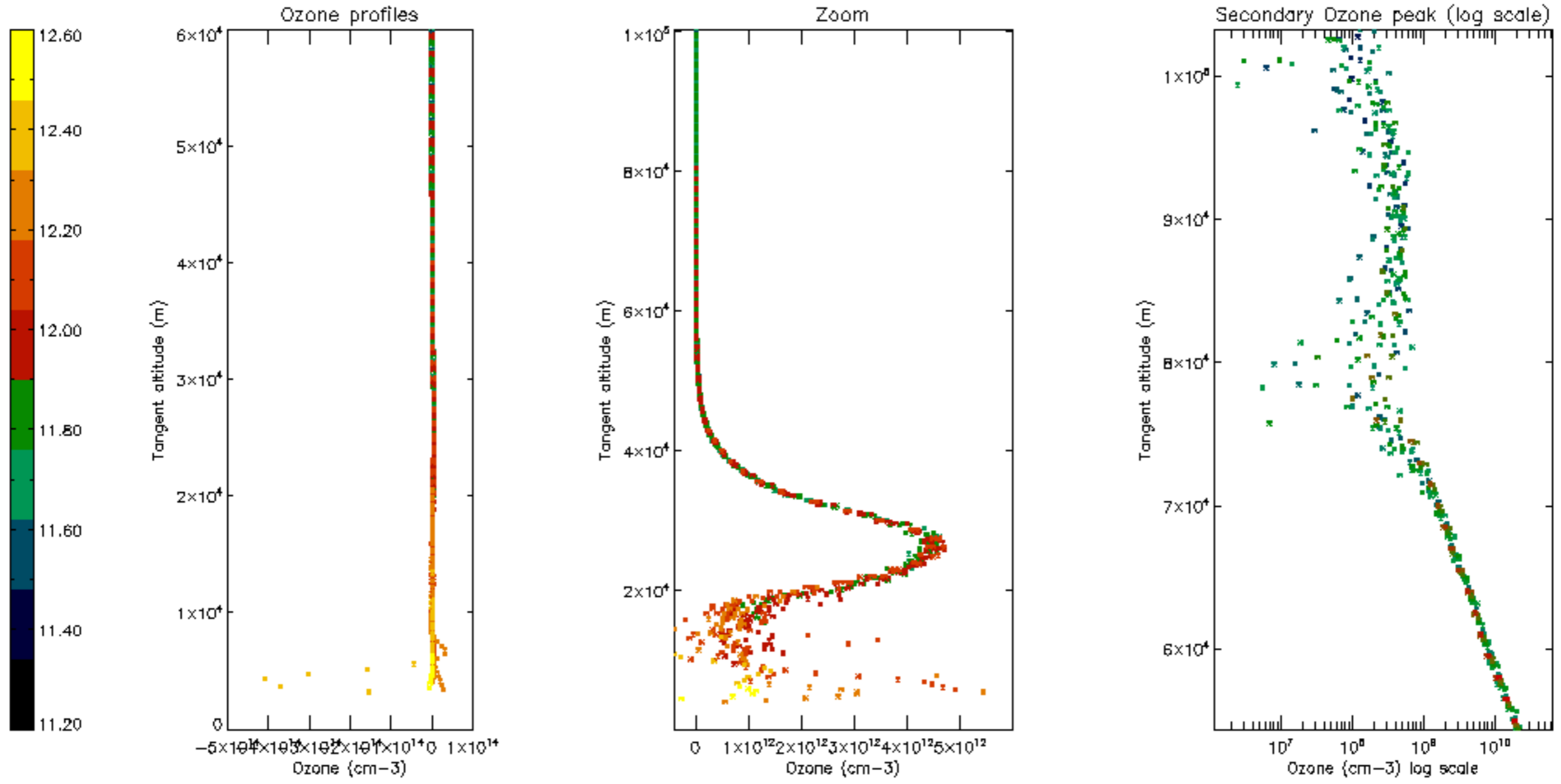


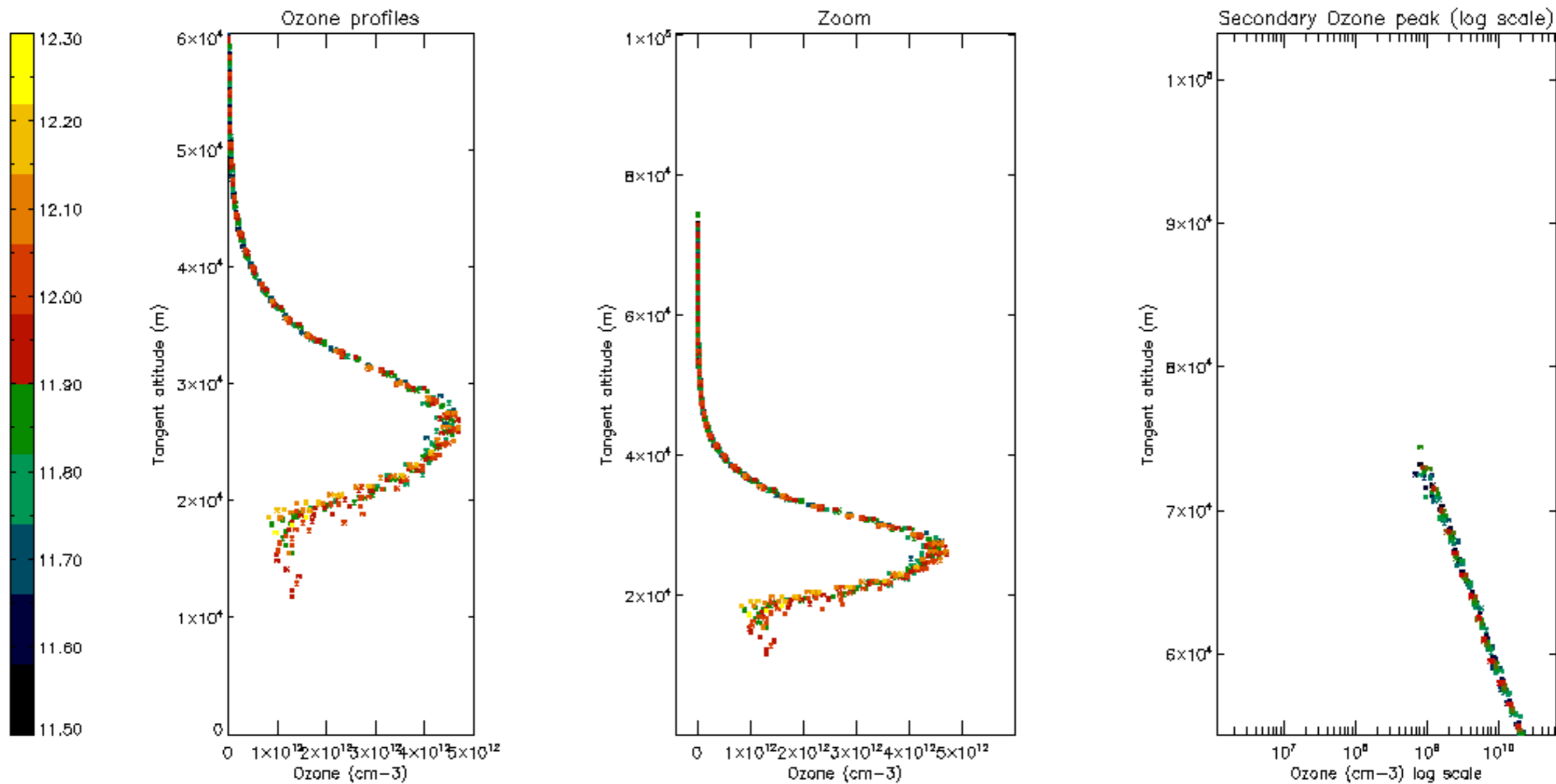
Percentage of star falling outside central band per profile

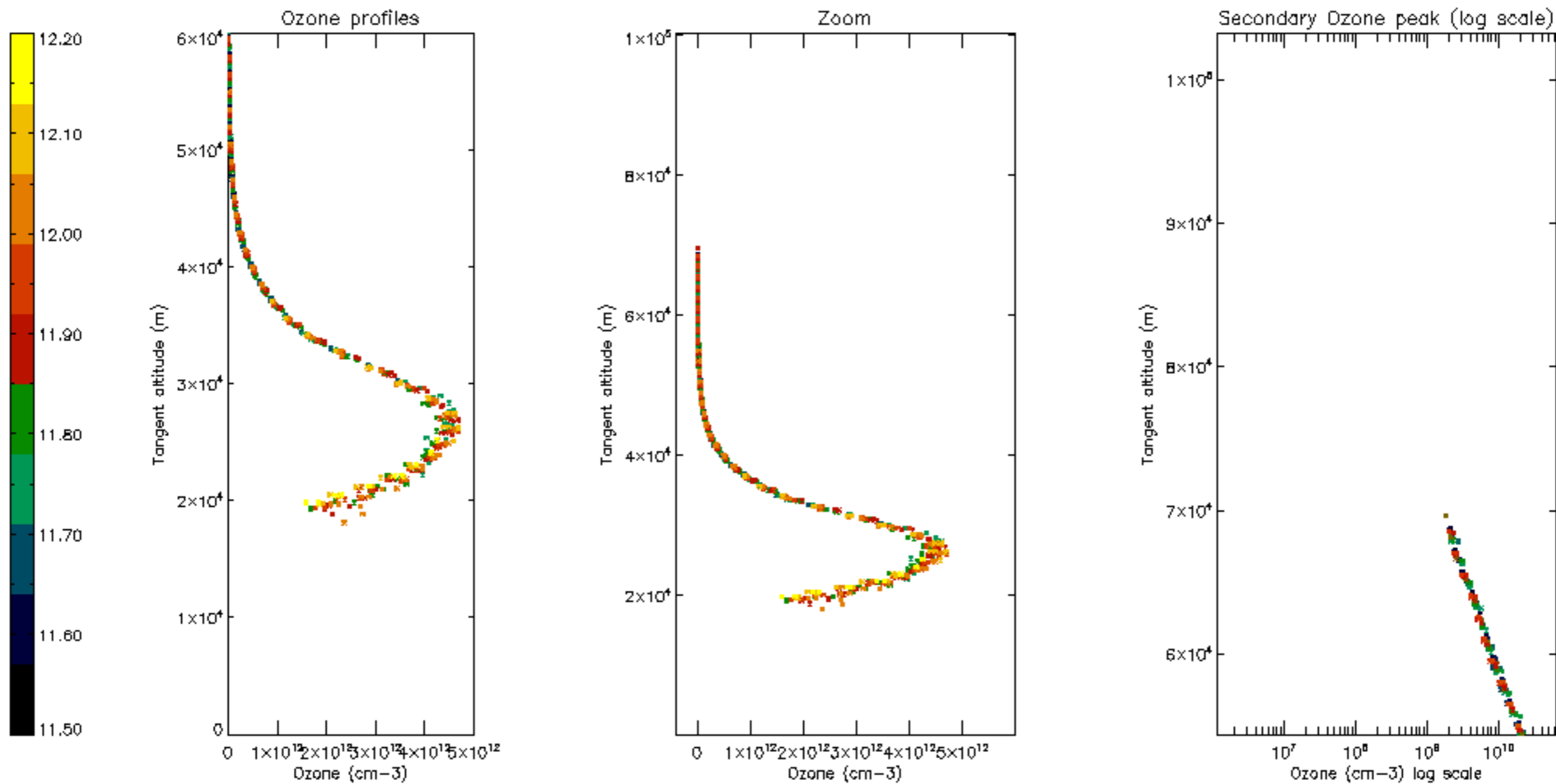


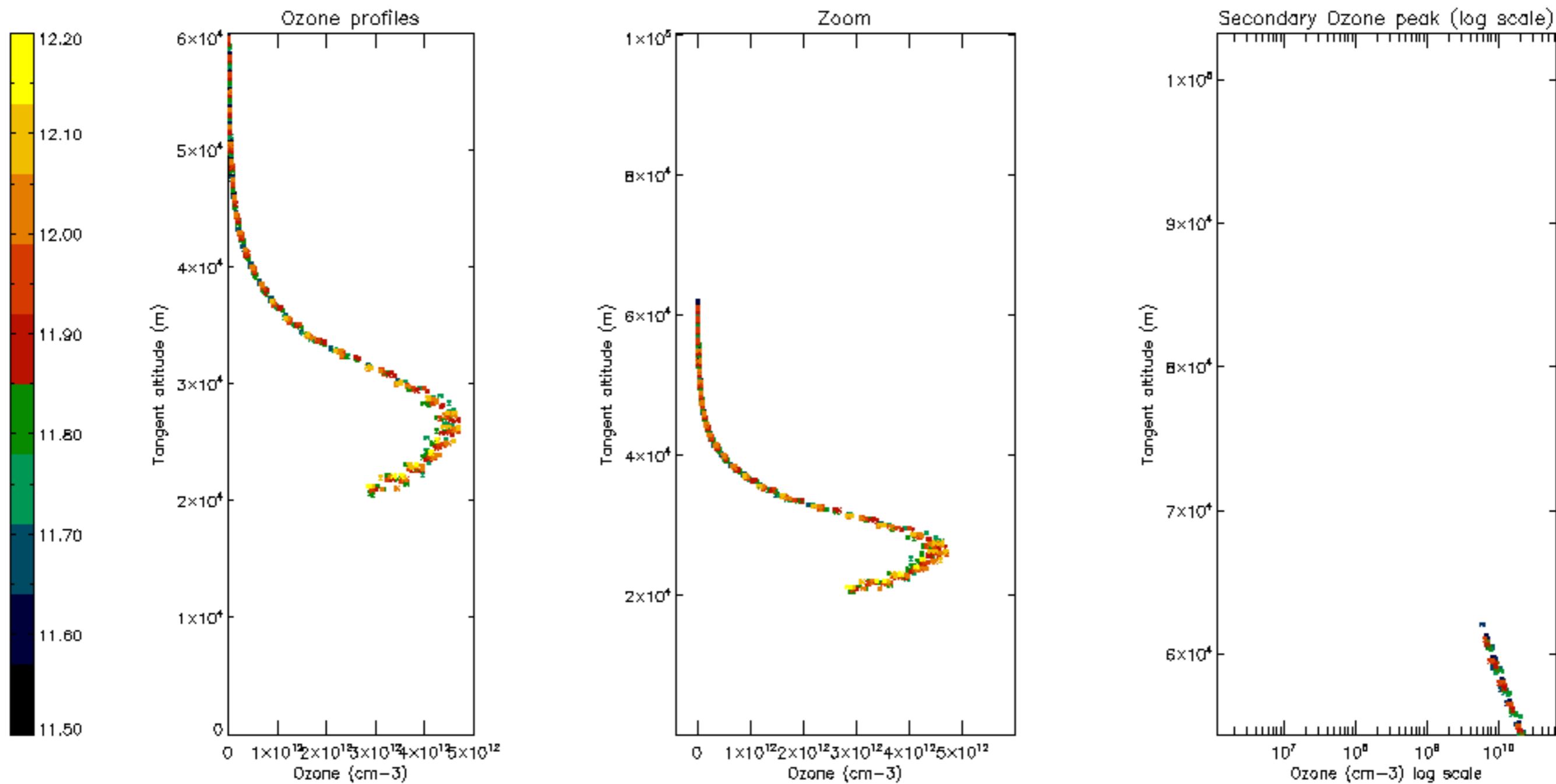
Percentage of saturation errors per profile

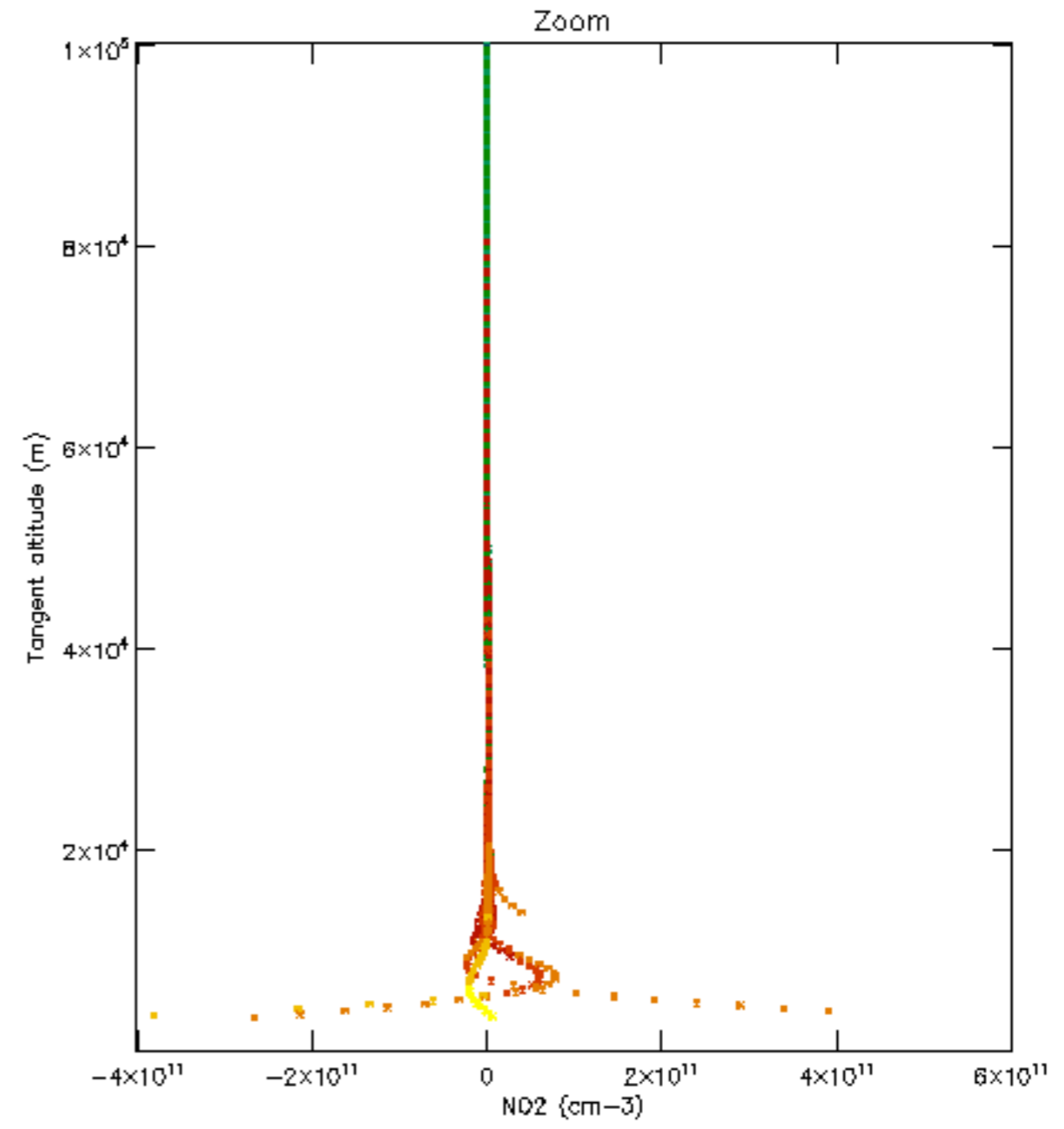
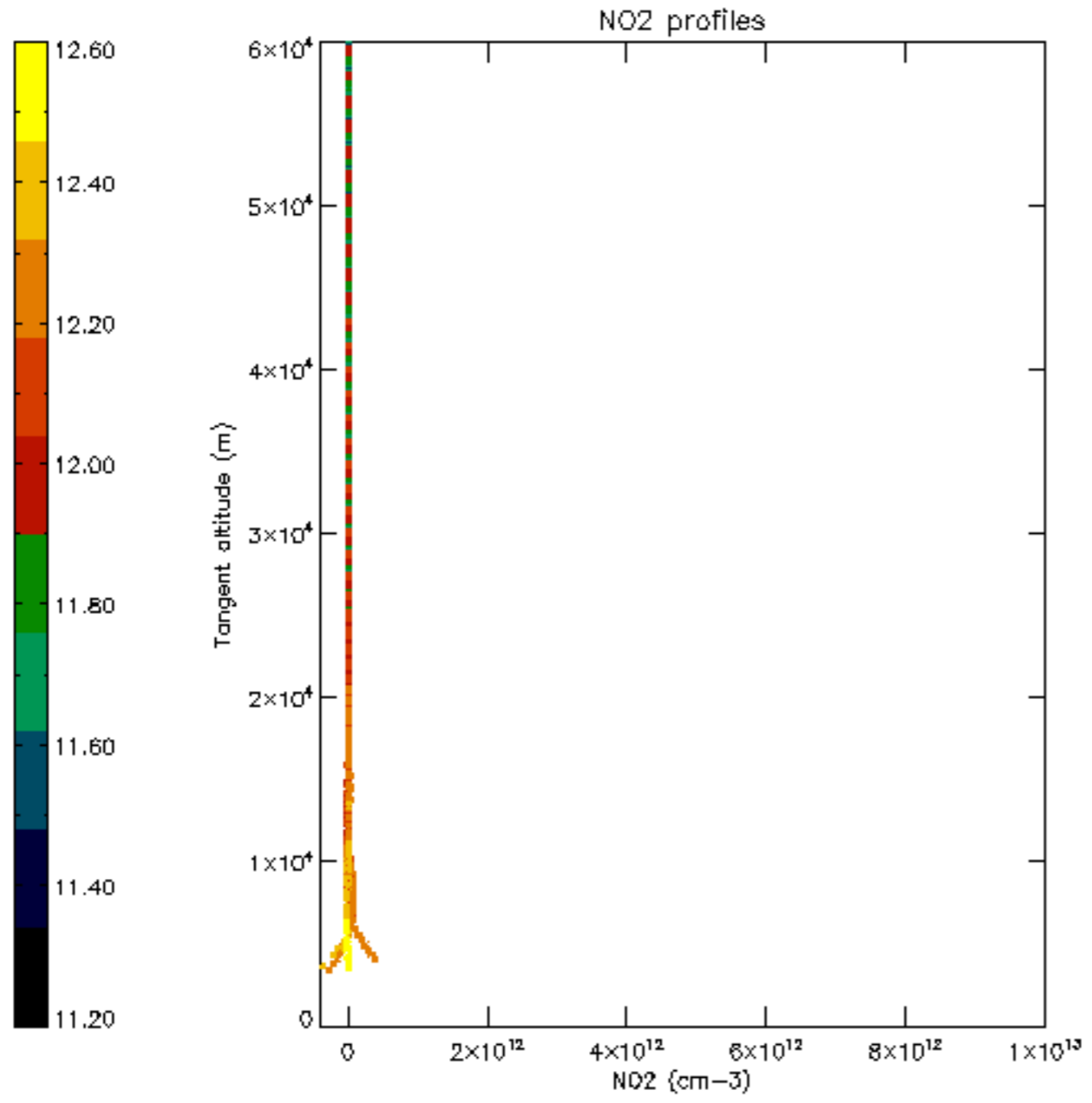


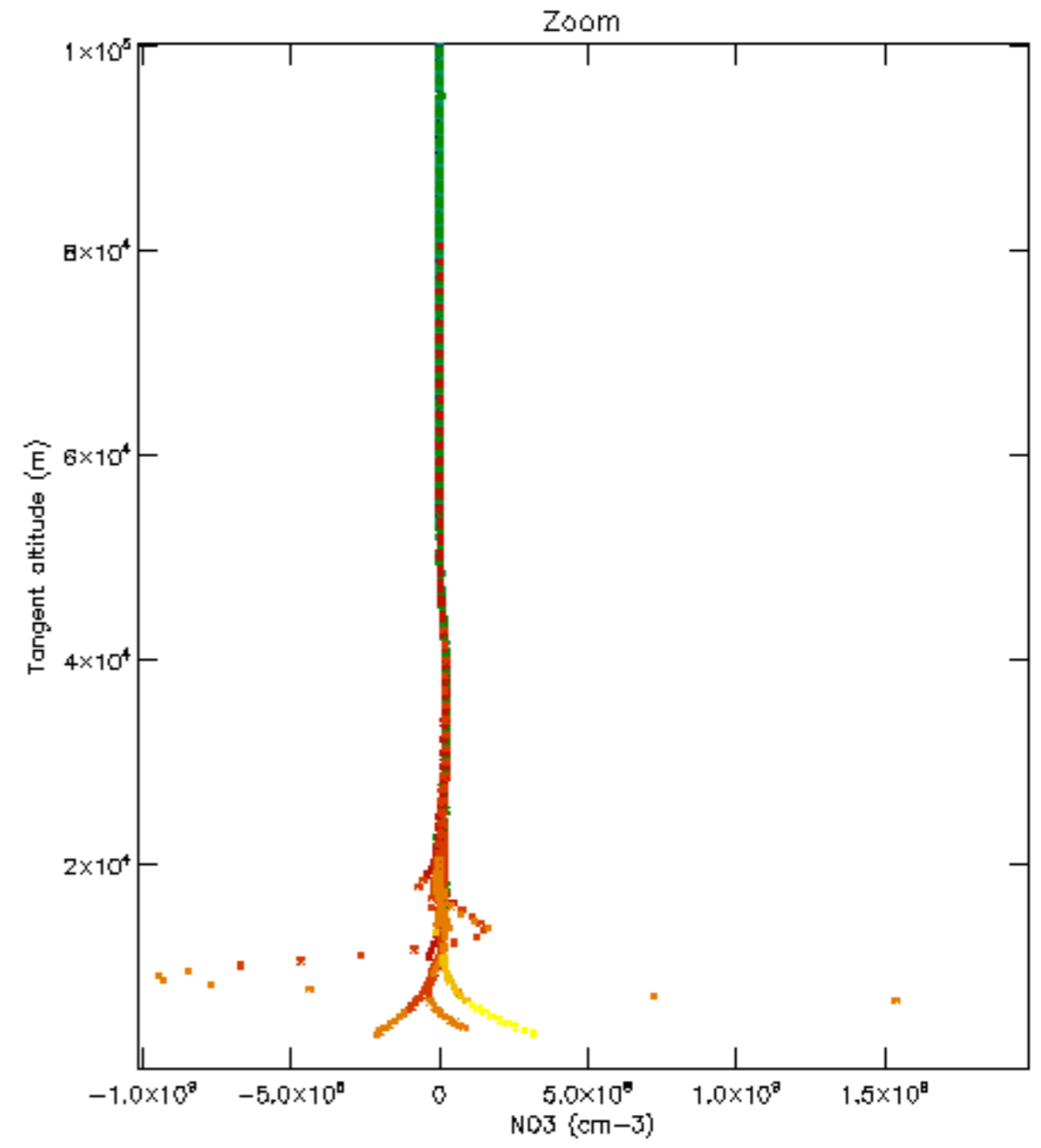
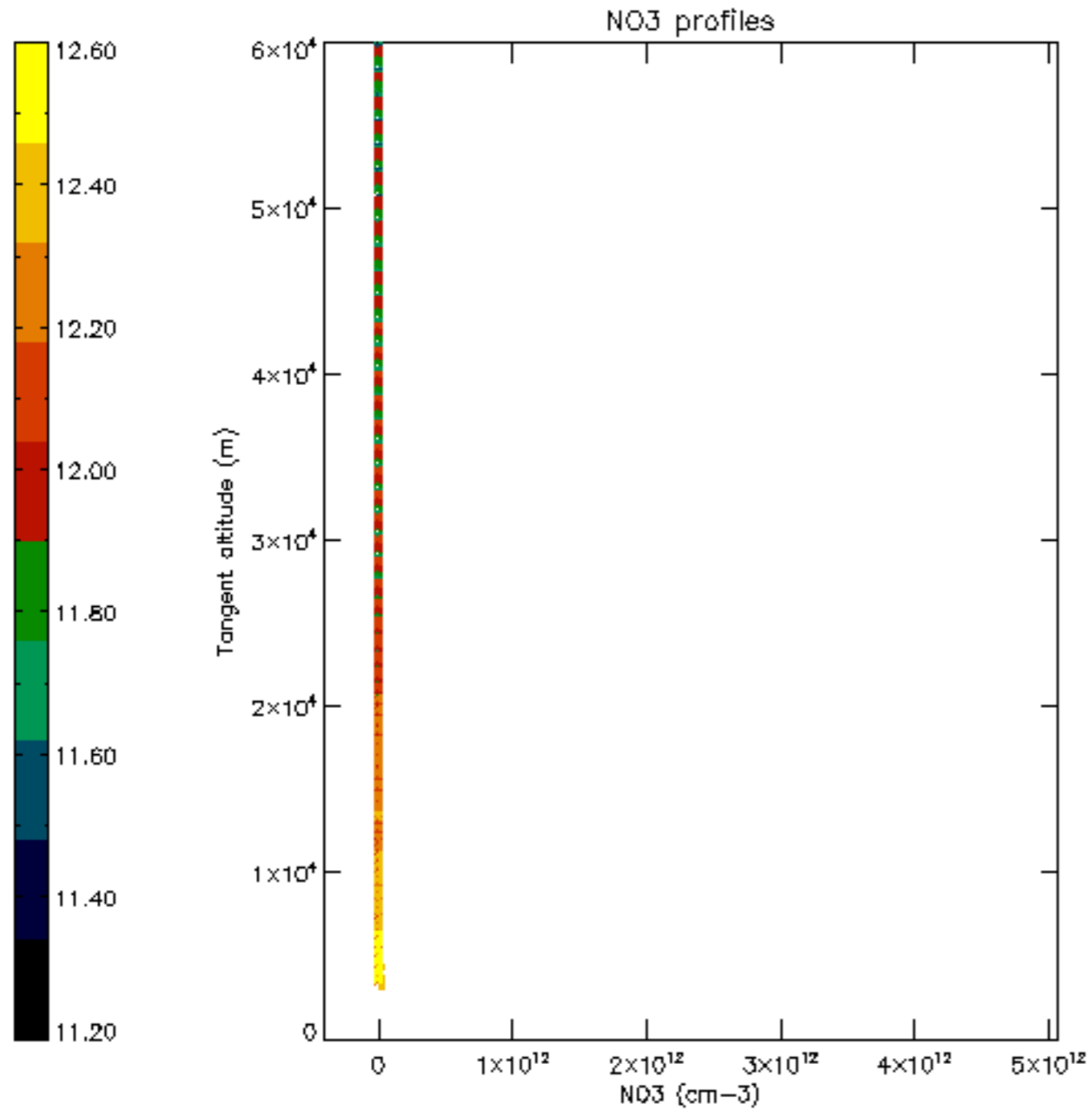


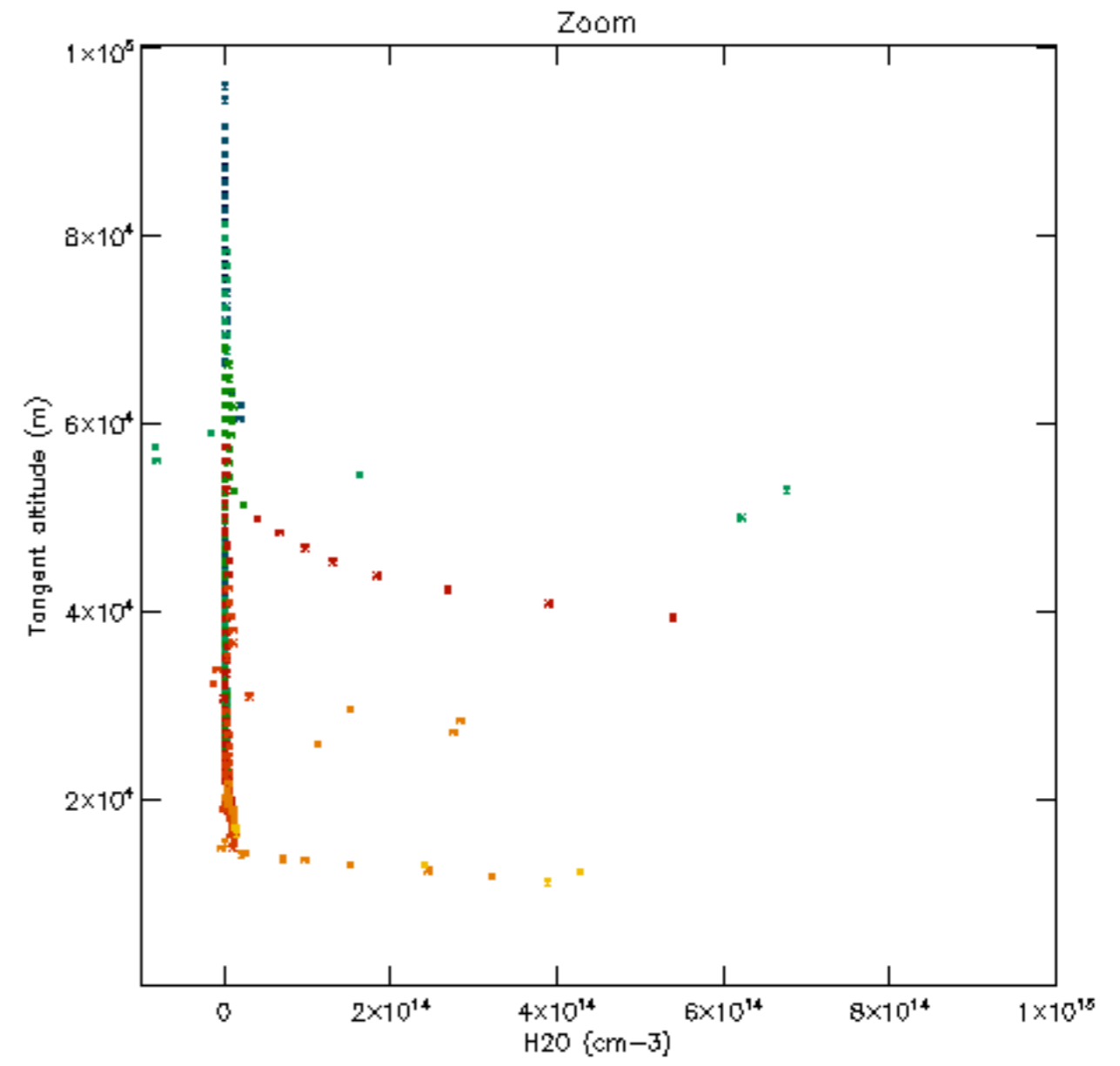
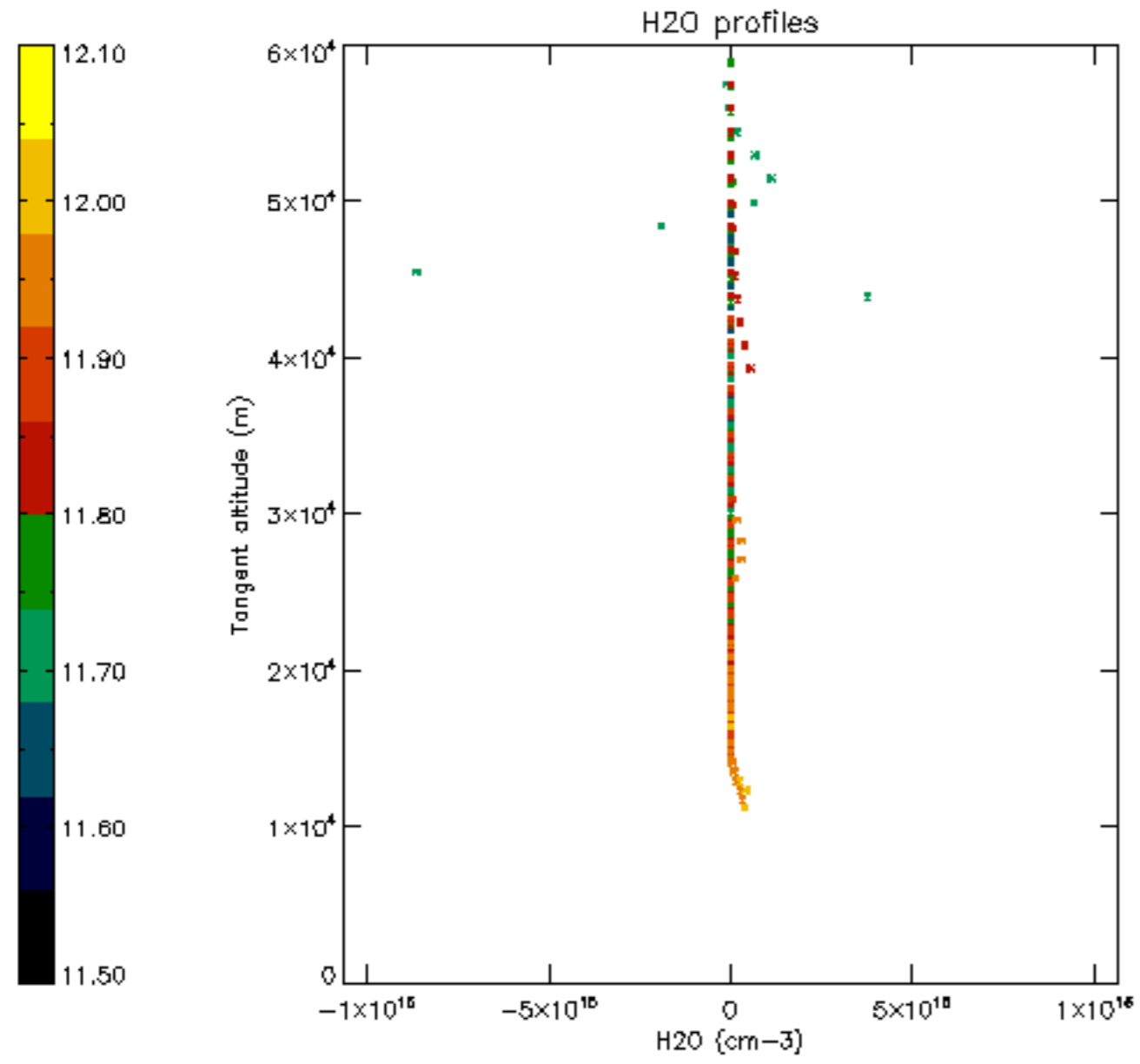


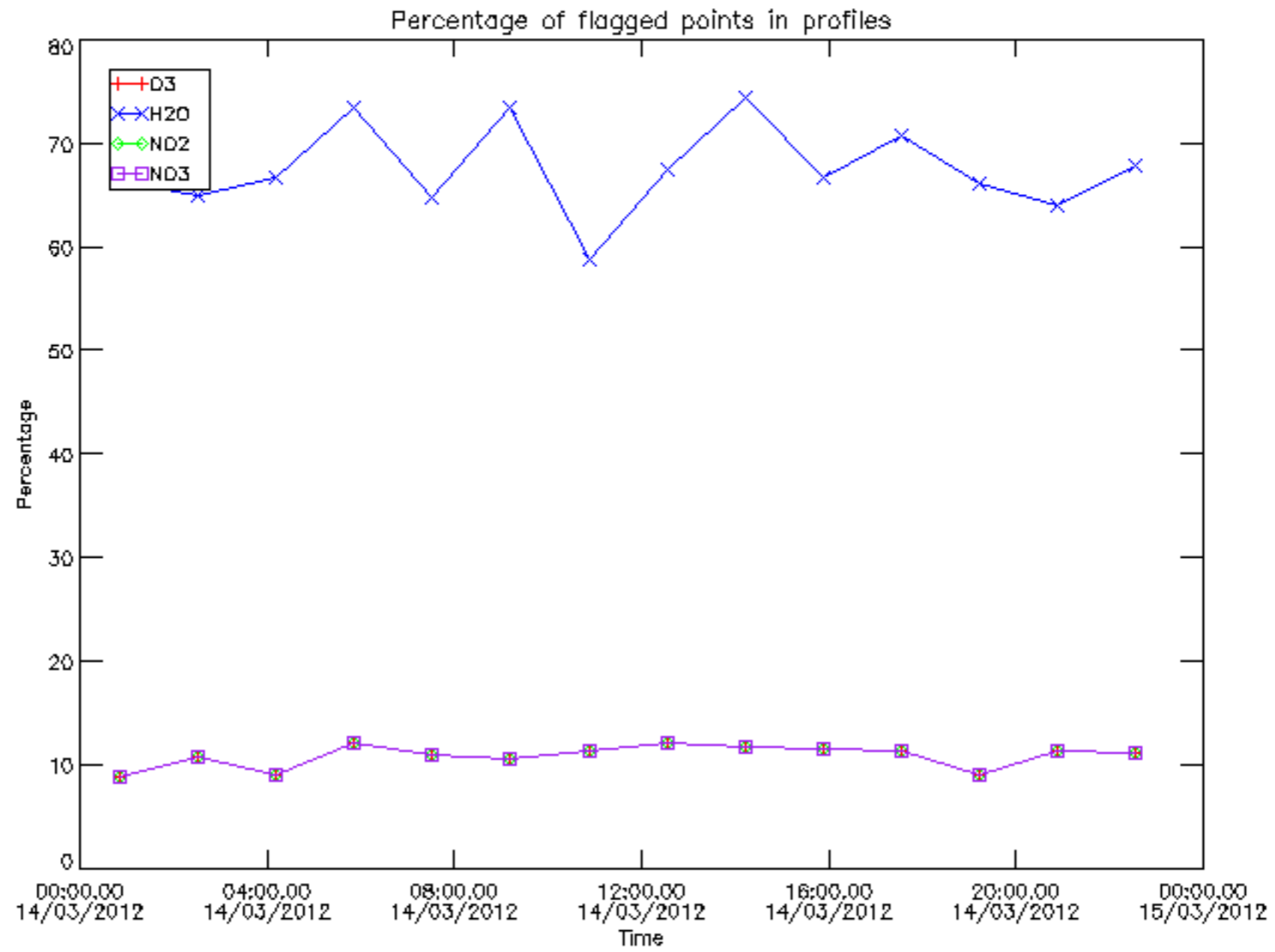




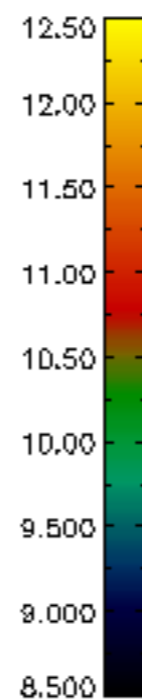
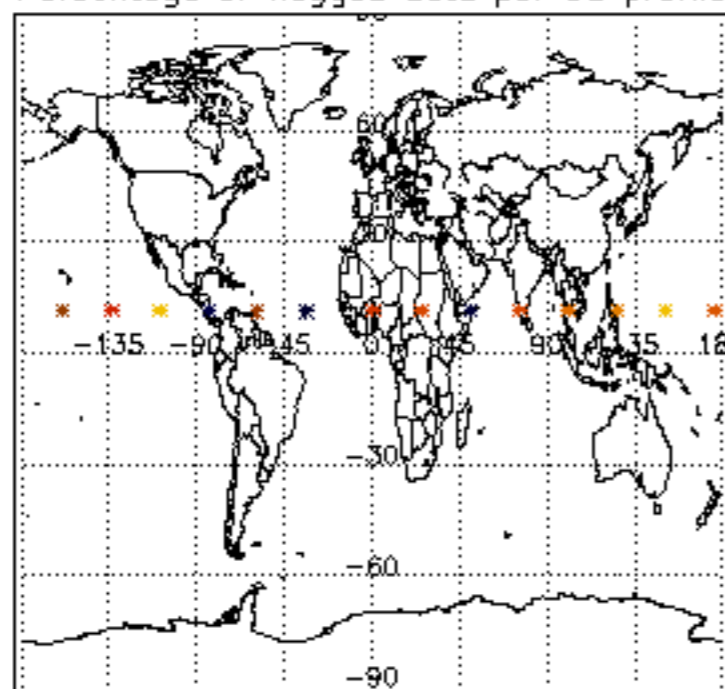




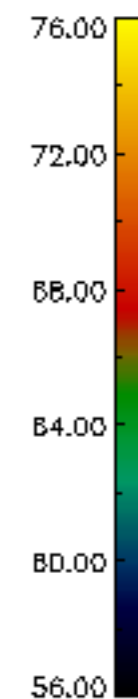
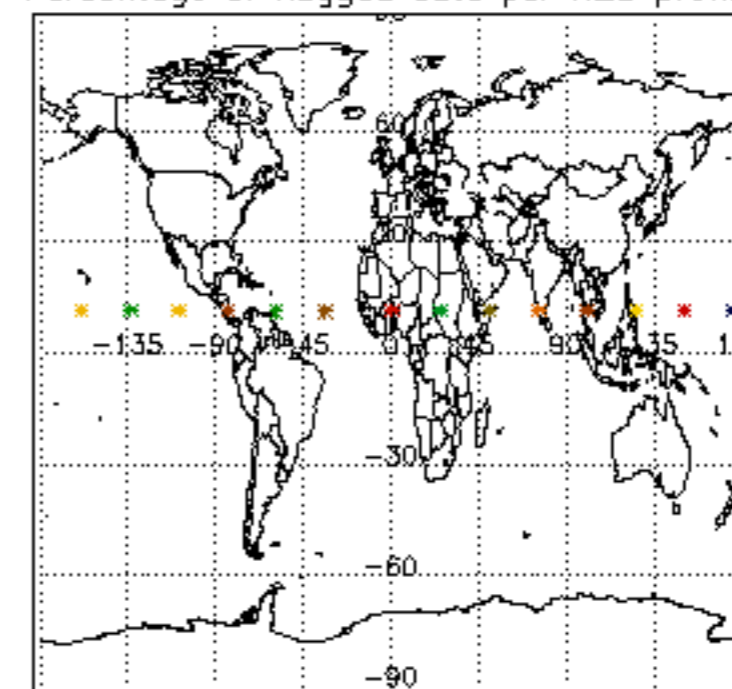




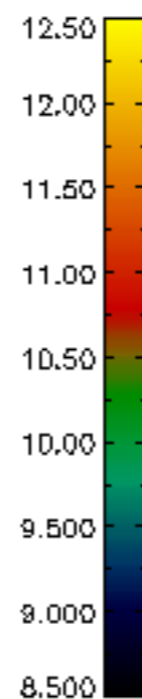
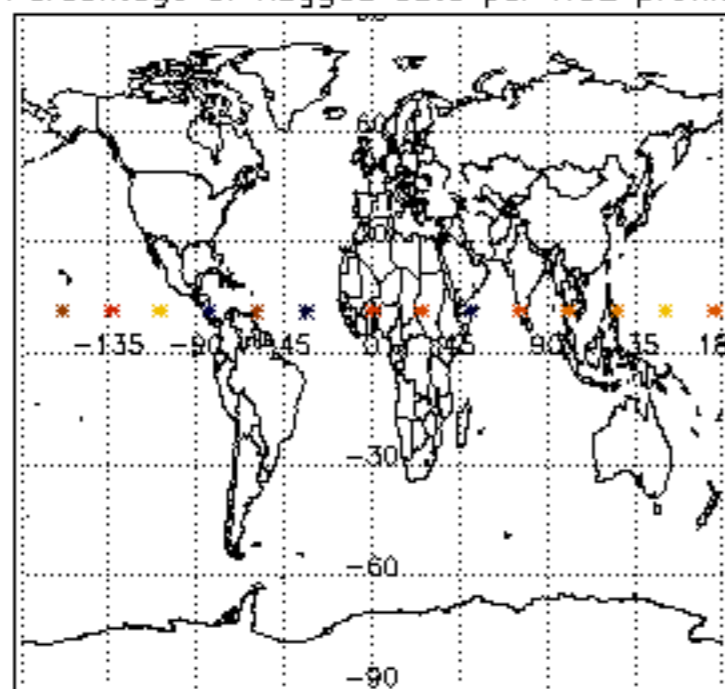
Percentage of flagged data per D3 profile



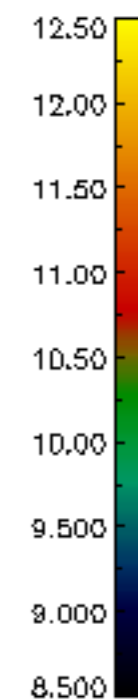
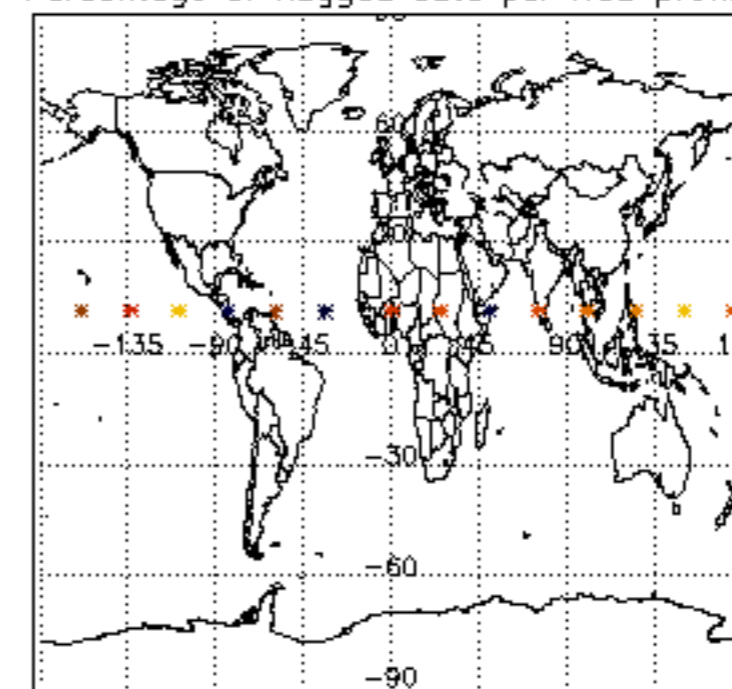
Percentage of flagged data per H2O profile

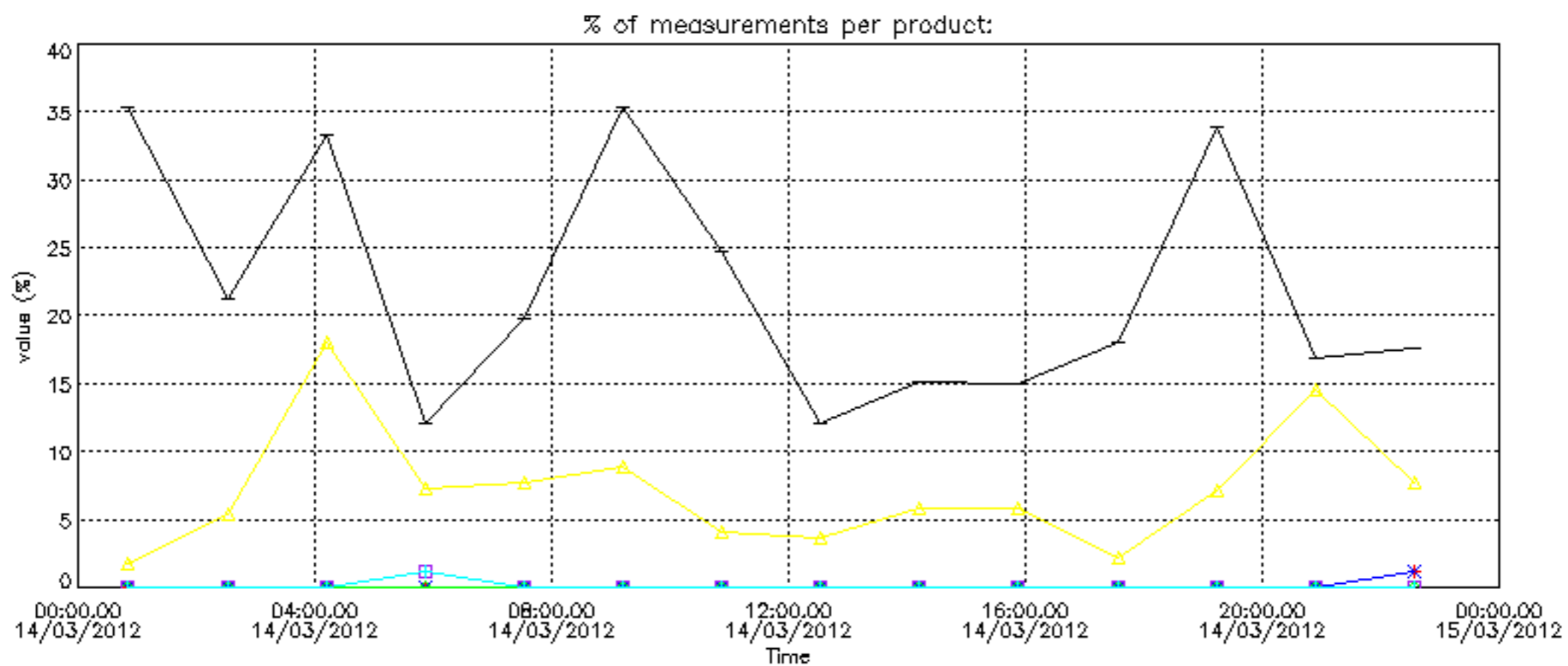


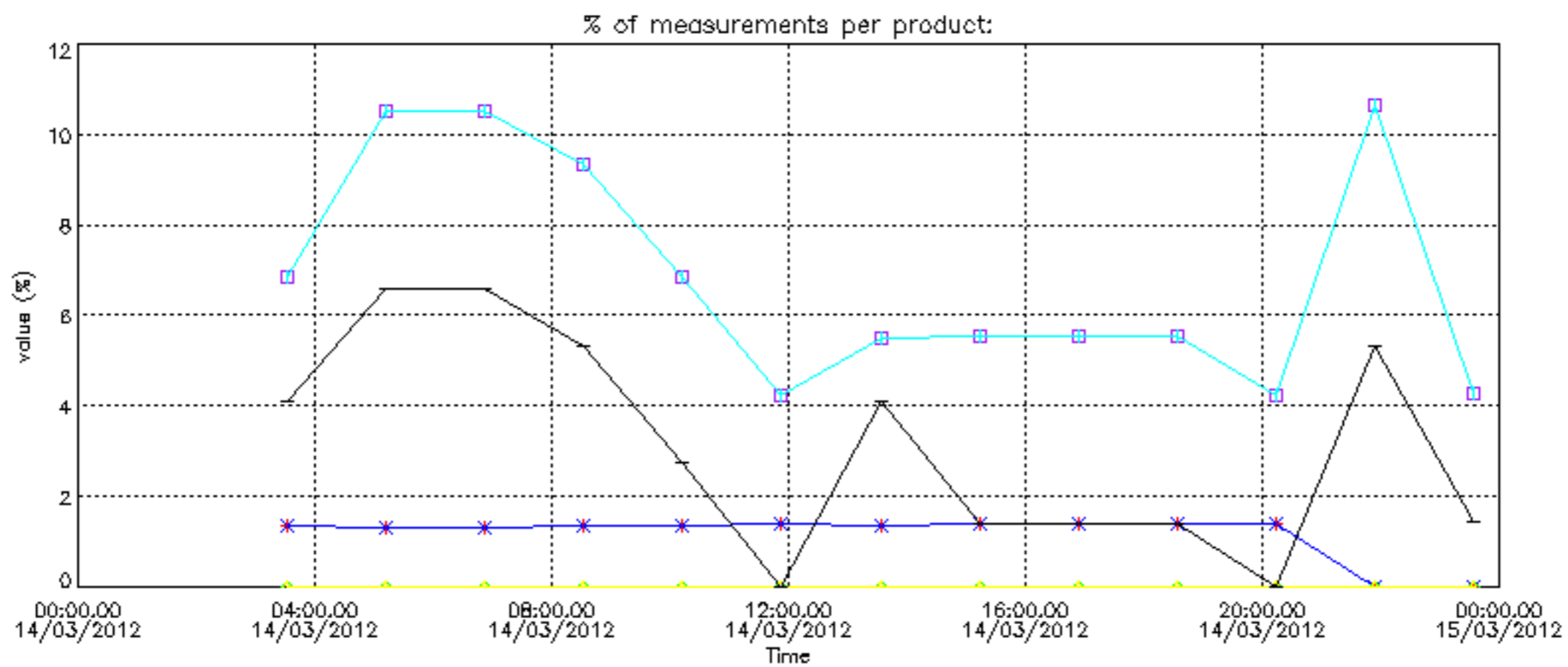
Percentage of flagged data per NO2 profile



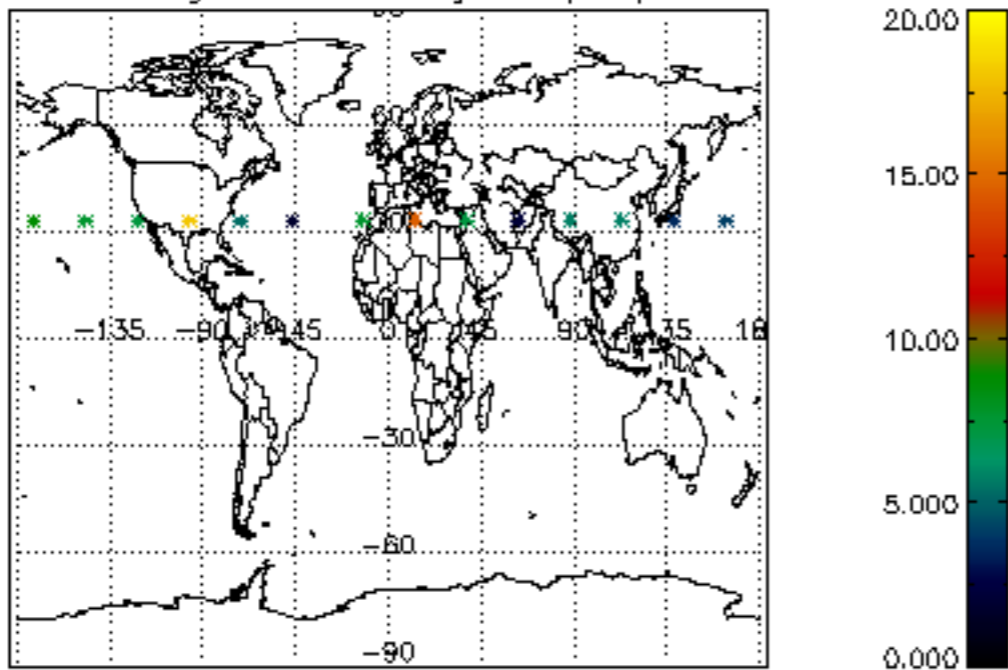
Percentage of flagged data per NO3 profile



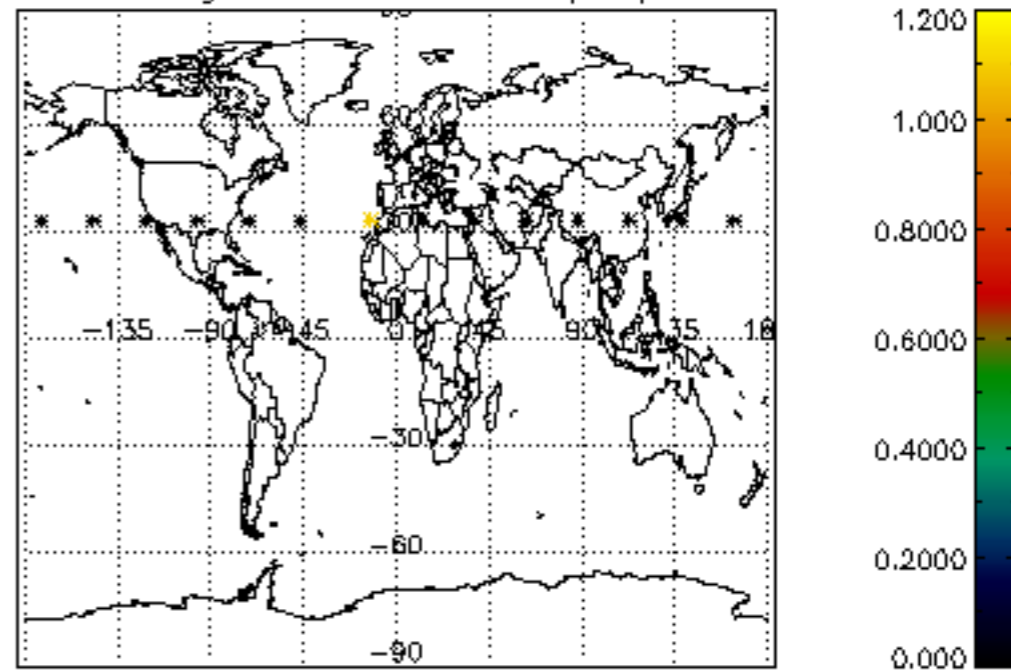




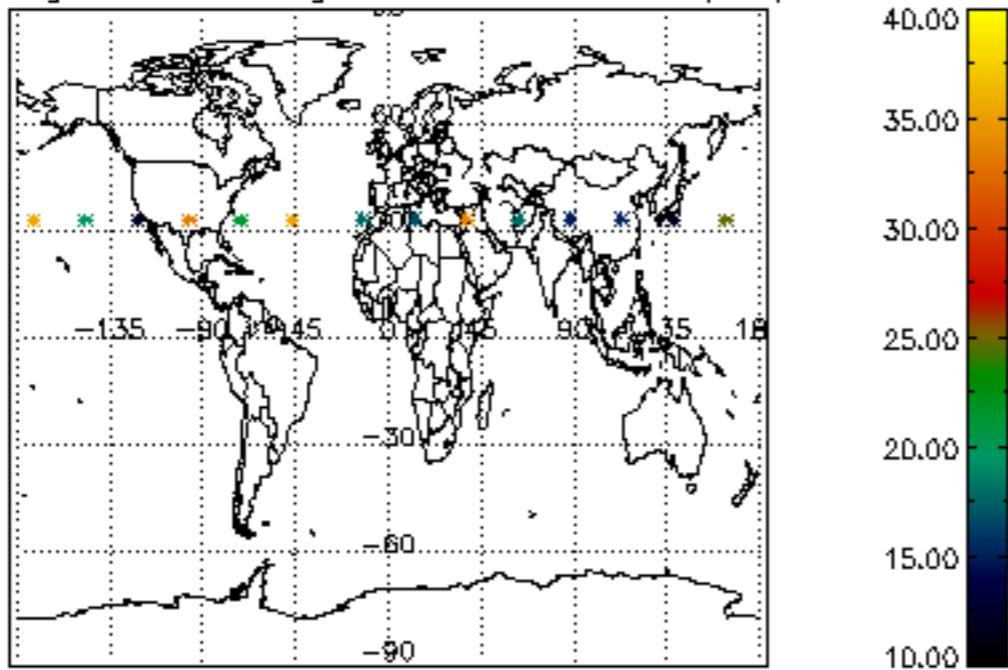
Percentage of cosmic ray hits per profile



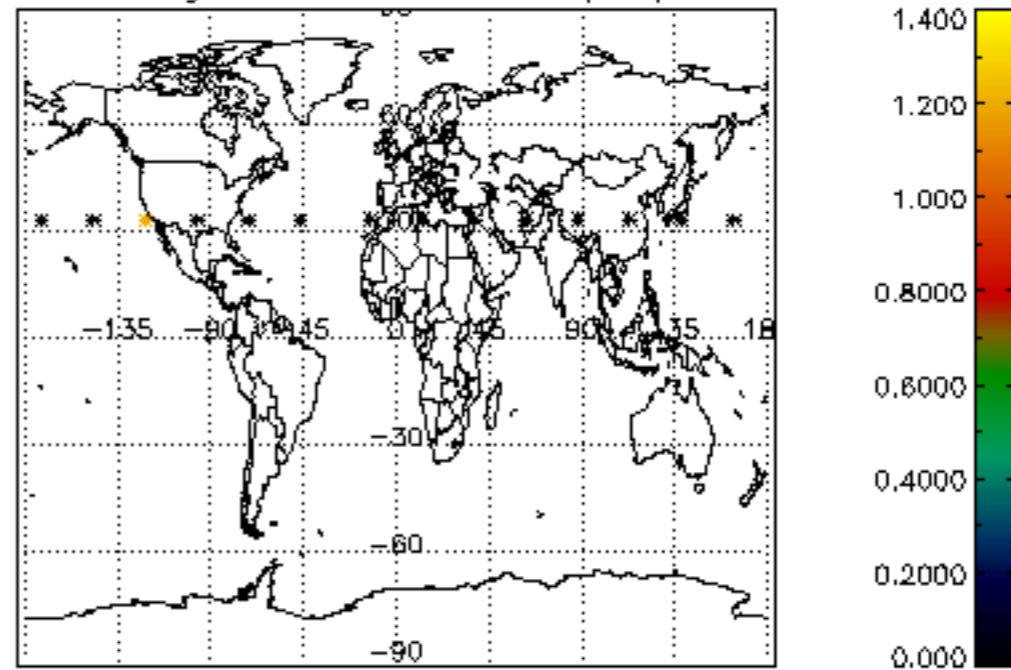
Percentage of datation errors per profile



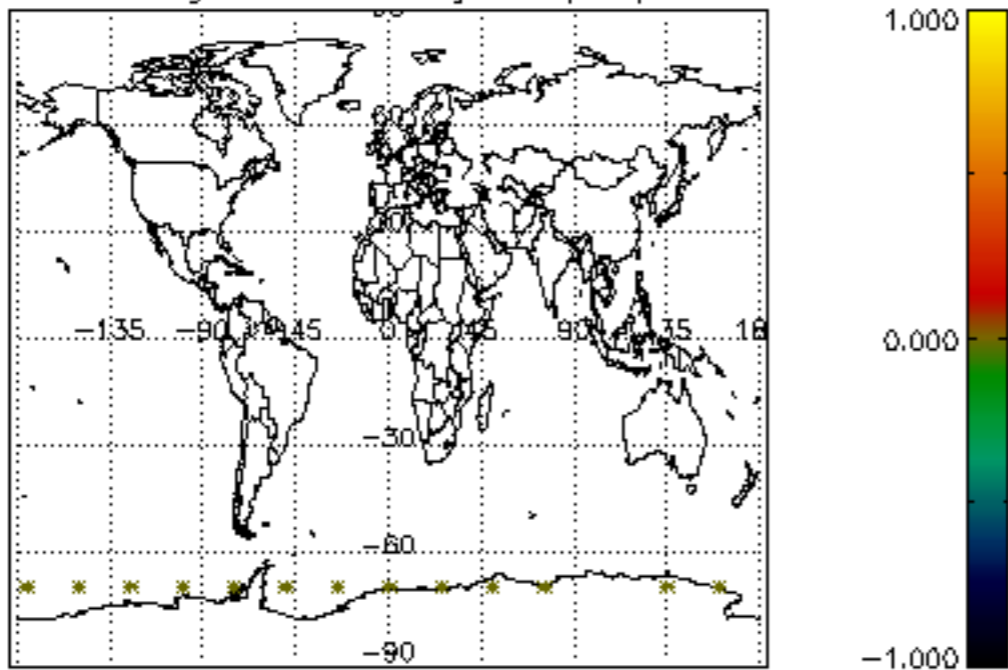
Percentage of star falling outside central band per profile



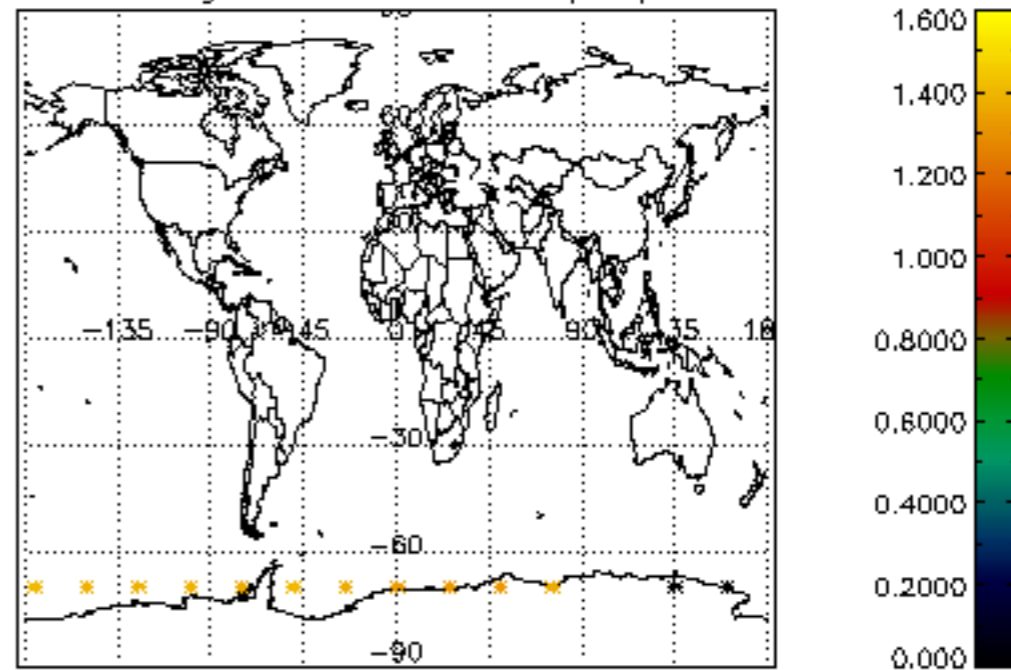
Percentage of saturation errors per profile



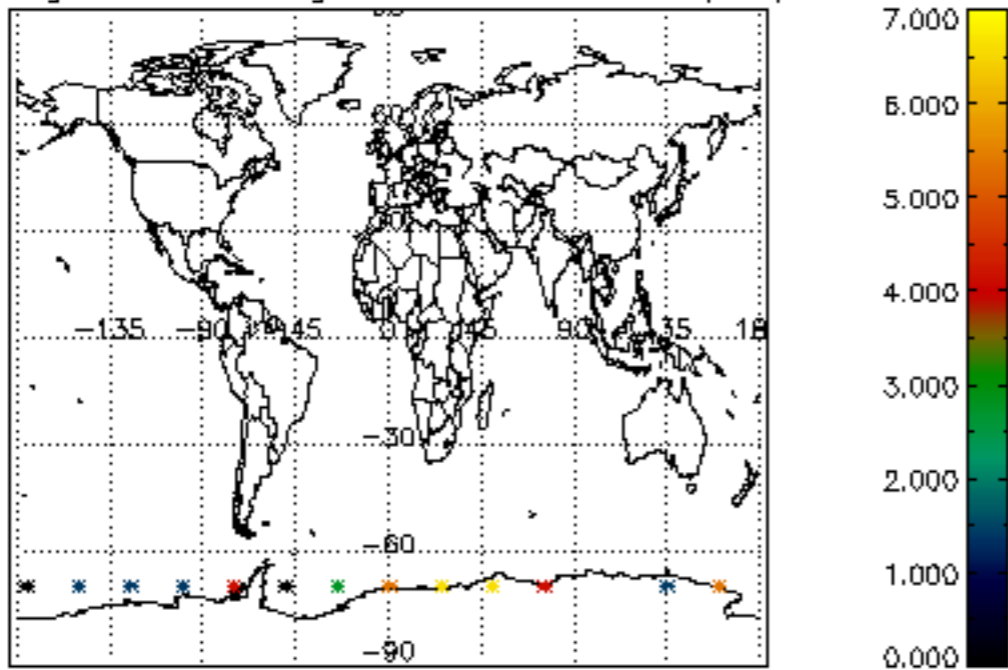
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

