

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	24APR2013 17:52:13
Data source version	GOMOS/6.01
Start time of products	27-09-2011 (27SEP2011 00:00:00)
Stop time of products	28-09-2011 (28SEP2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	41
Nb of prods with errors	0

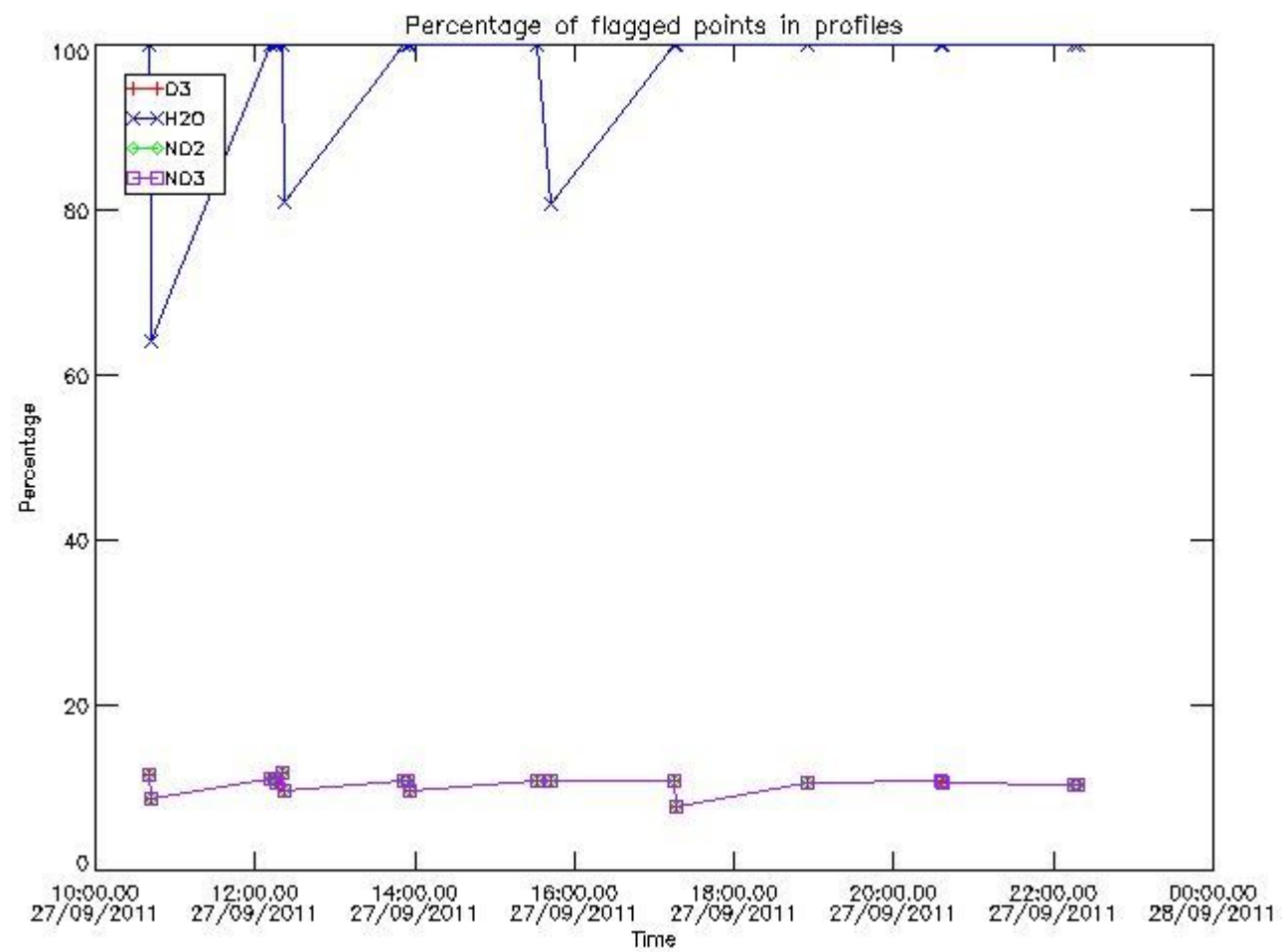
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110927_103947_000000453107_00066_50080_0198.N1	27-SEP-2011 10:39:47	Dark	44.500	161	Tau Pup	2.9310	4500.0	89	50080	No
2	GOM_NL__2PRFIN20110927_104110_000000593107_00066_50080_0199.N1	27-SEP-2011 10:41:10	Dark	58.500	2	Alp Car	-0.73600	7000.0	117	50080	No
3	GOM_NL__2PRFIN20110927_111513_000000413107_00066_50080_0200.N1	27-SEP-2011 11:15:13	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	50080	No
4	GOM_NL__2PRFIN20110927_112757_000000403107_00066_50080_0201.N1	27-SEP-2011 11:27:57	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	50080	No
5	GOM_NL__2PRFIN20110927_112922_000000403107_00066_50080_0202.N1	27-SEP-2011 11:29:22	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	50080	No
6	GOM_NL__2PRFIN20110927_121105_000000463107_00066_50080_0203.N1	27-SEP-2011 12:11:05	Dark	45.500	132	15Rho Pup	2.8030	6900.0	91	50080	No
7	GOM_NL__2PRFIN20110927_121432_000000503107_00066_50080_0204.N1	27-SEP-2011 12:14:32	Dark	50.000	88	31Eta CMa	2.4480	20000.	100	50080	No
8	GOM_NL__2PRFIN20110927_121608_000000483107_00066_50080_0205.N1	27-SEP-2011 12:16:08	Dark	48.000	23	21Eps CMa	1.5020	26000.	96	50080	No
9	GOM_NL__2PRFIN20110927_122001_000000433107_00067_50081_0236.N1	27-SEP-2011 12:20:01	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	50081	No
10	GOM_NL__2PRFIN20110927_122125_000000533107_00067_50081_0237.N1	27-SEP-2011 12:21:25	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	50081	No
11	GOM_NL__2PRFIN20110927_123346_000000513107_00067_50081_0238.N1	27-SEP-2011 12:33:46	Straylight	51.000	157	The1Eri	2.9060	9300.0	102	50081	No
12	GOM_NL__2PRFIN20110927_124448_000000483107_00067_50081_0239.N1	27-SEP-2011 12:44:48	Twilight	48.000	52	16Bet Cet	2.0370	4500.0	96	50081	No
13	GOM_NL__2PRFIN20110927_125526_000000413107_00067_50081_0240.N1	27-SEP-2011 12:55:26	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	50081	No
14	GOM_NL__2PRFIN20110927_130811_000000403107_00067_50081_0241.N1	27-SEP-2011 13:08:11	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	50081	No
15	GOM_NL__2PRFIN20110927_130935_000000413107_00067_50081_0242.N1	27-SEP-2011 13:09:35	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	50081	No
16	GOM_NL__2PRFIN20110927_135120_000000473107_00067_50081_0243.N1	27-SEP-2011 13:51:20	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	50081	No
17	GOM_NL__2PRFIN20110927_135447_000000483107_00067_50081_0244.N1	27-SEP-2011 13:54:47	Dark	47.500	88	31Eta CMa	2.4480	20000.	95	50081	No
18	GOM_NL__2PRFIN20110927_135624_000000523107_00067_50081_0245.N1	27-SEP-2011 13:56:24	Dark	52.000	23	21Eps CMa	1.5020	26000.	104	50081	No
19	GOM_NL__2PRFIN20110927_143540_000000423107_00068_50082_0274.N1	27-SEP-2011 14:35:40	Bright	41.500	140	88Gam Peg	2.8340	26000.	83	50082	No
20	GOM_NL__2PRFIN20110927_144824_000000373107_00068_50082_0275.N1	27-SEP-2011 14:48:24	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	50082	No
21	GOM_NL__2PRFIN20110927_144949_000000423107_00068_50082_0276.N1	27-SEP-2011 14:49:49	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	50082	No
22	GOM_NL__2PRFIN20110927_153134_000000473107_00068_50082_0277.N1	27-SEP-2011 15:31:34	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	50082	No
23	GOM_NL__2PRFIN20110927_154154_000000473107_00069_50083_0334.N1	27-SEP-2011 15:41:54	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	50083	No
24	GOM_NL__2PRFIN20110927_161554_000000413107_00069_50083_0335.N1	27-SEP-2011 16:15:54	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	50083	No
25	GOM_NL__2PRFIN20110927_163002_000000403107_00069_50083_0336.N1	27-SEP-2011 16:30:02	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	50083	No
26	GOM_NL__2PRFIN20110927_171517_000000483107_00069_50083_0337.N1	27-SEP-2011 17:15:17	Dark	47.500	88	31Eta CMa	2.4480	20000.	95	50083	No
27	GOM_NL__2PRFIN20110927_171654_000000663107_00069_50083_0338.N1	27-SEP-2011 17:16:54	Dark	65.500	23	21Eps CMa	1.5020	26000.	131	50083	No
28	GOM_NL__2PRFIN20110927_173430_000000493107_00070_50084_0346.N1	27-SEP-2011 17:34:30	Straylight	48.500	157	The1Eri	2.9060	9300.0	97	50084	No
29	GOM_NL__2PRFIN20110927_175608_000000413107_00070_50084_0347.N1	27-SEP-2011 17:56:08	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	50084	No
30	GOM_NL__2PRFIN20110927_181016_000000403107_00070_50084_0348.N1	27-SEP-2011 18:10:16	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	50084	No
31	GOM_NL__2PRFIN20110927_185532_000000483107_00070_50084_0349.N1	27-SEP-2011 18:55:32	Dark	48.000	88	31Eta CMa	2.4480	20000.	96	50084	No
32	GOM_NL__2PRFIN20110927_191445_000000503107_00071_50085_0391.N1	27-SEP-2011 19:14:45	Straylight	49.500	157	The1Eri	2.9060	9300.0	99	50085	No
33	GOM_NL__2PRFIN20110927_193621_000000423107_00071_50085_0392.N1	27-SEP-2011 19:36:21	Bright	41.500	140	88Gam Peg	2.8340	26000.	83	50085	No
34	GOM_NL__2PRFIN20110927_195029_000000413107_00071_50085_0393.N1	27-SEP-2011 19:50:29	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	50085	No
35	GOM_NL__2PRFIN20110927_203547_000000473107_00071_50085_0394.N1	27-SEP-2011 20:35:47	Dark	47.000	88	31Eta CMa	2.4480	20000.	94	50085	No
36	GOM_NL__2PRFIN20110927_203724_000000533107_00071_50085_0395.N1	27-SEP-2011 20:37:24	Dark	53.000	23	21Eps CMa	1.5020	26000.	106	50085	No
37	GOM_NL__2PRFIN20110927_205500_000000243107_00072_50086_0427.N1	27-SEP-2011 20:55:00	Straylight	23.500	157	The1Eri	2.9060	9300.0	47	50086	No
38	GOM_NL__2PRFIN20110927_211635_000000413107_00072_50086_0428.N1	27-SEP-2011 21:16:35	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	50086	No
39	GOM_NL__2PRFIN20110927_213043_000000403107_00072_50086_0429.N1	27-SEP-2011 21:30:43	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	50086	No
40	GOM_NL__2PRFIN20110927_221602_000000493107_00072_50086_0430.N1	27-SEP-2011 22:16:02	Dark	49.000	88	31Eta CMa	2.4480	20000.	98	50086	No
41	GOM_NL__2PRFIN20110927_221739_000000493107_00072_50086_0431.N1	27-SEP-2011 22:17:39	Dark	48.500	23	21Eps CMa	1.5020	26000.	97	50086	No

3. Quality information per product

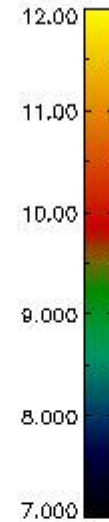
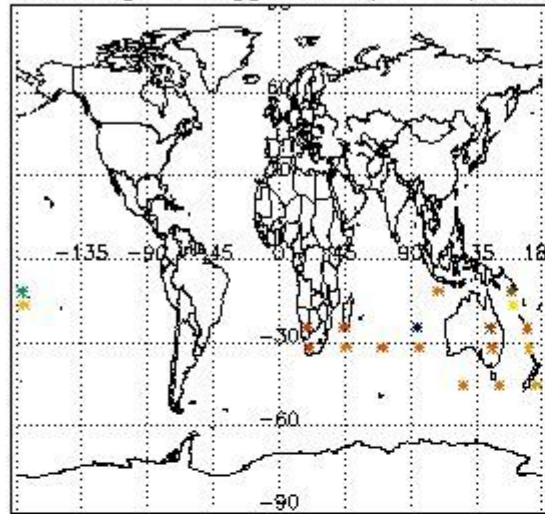
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

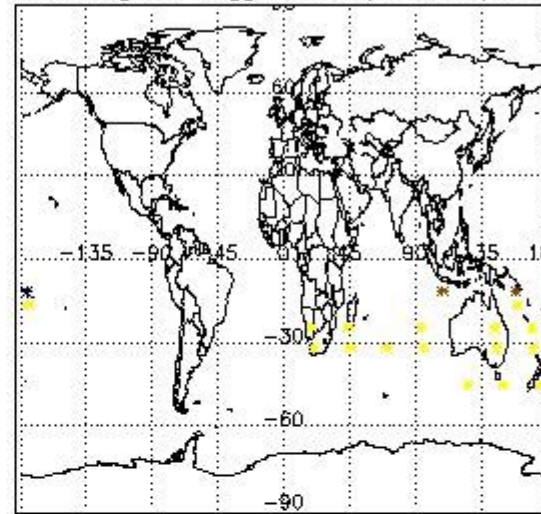


3.2 Plot quality information per product (world map)

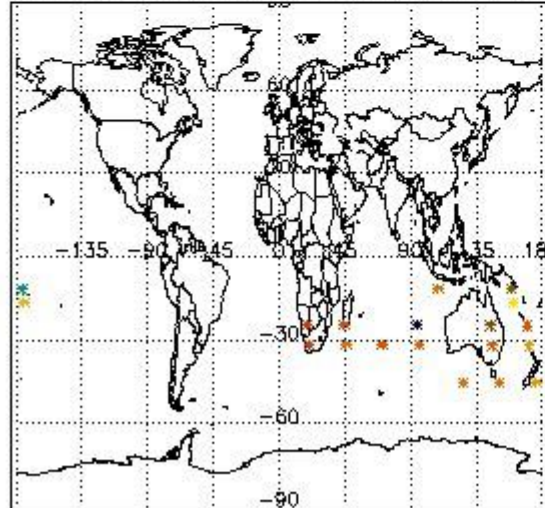
Percentage of flagged data per O3 profile



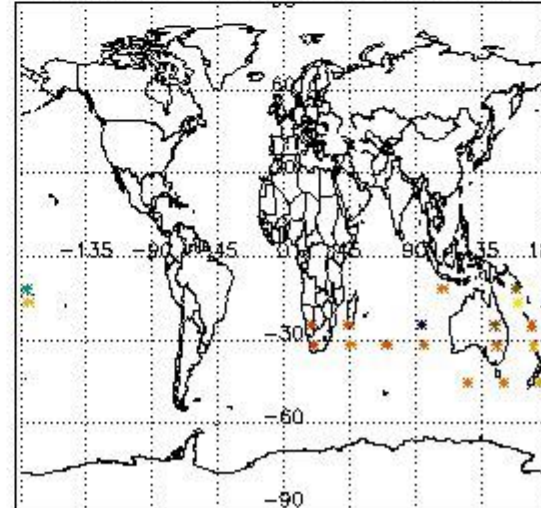
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

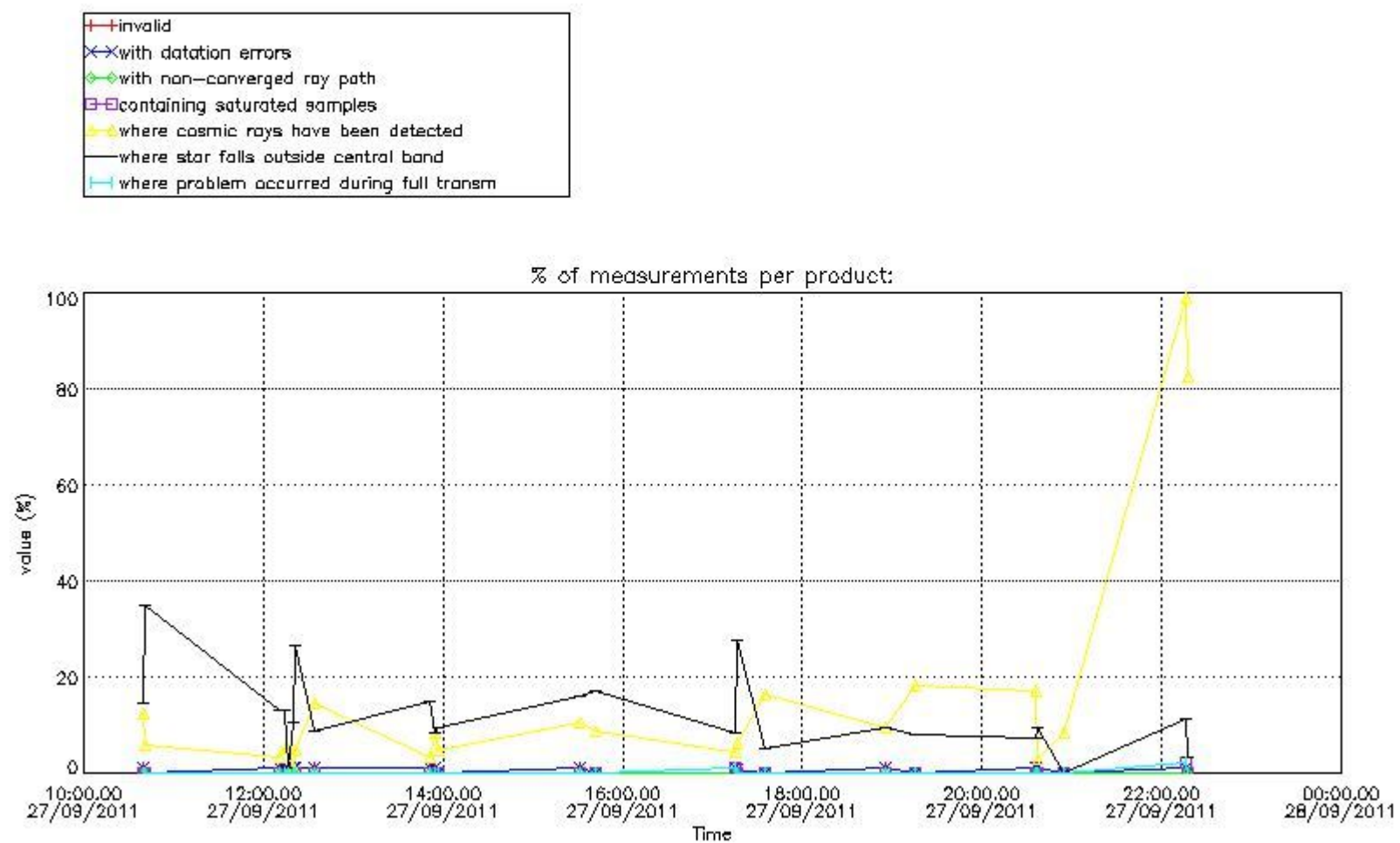


4. Level 1 quality information per product

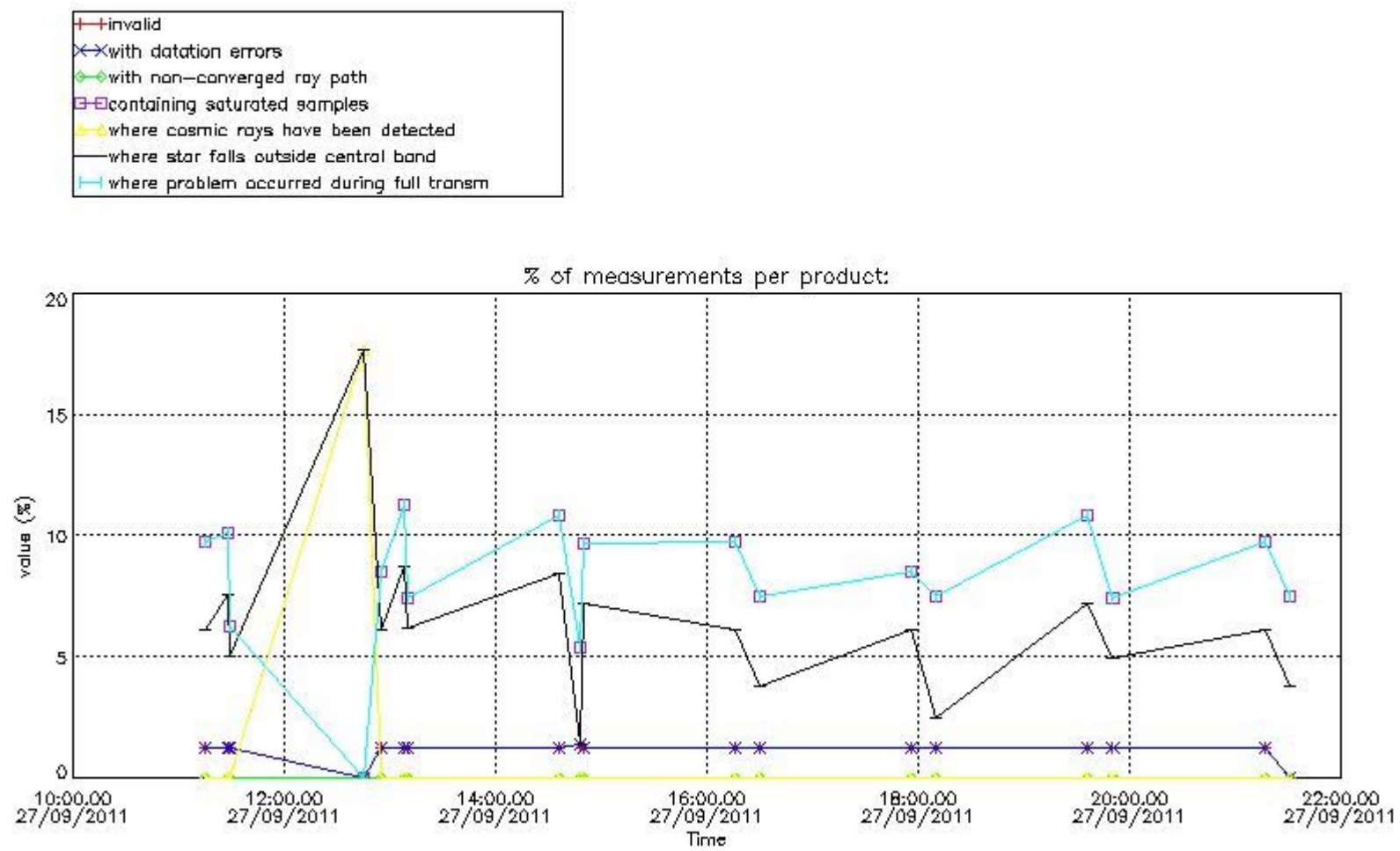
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes



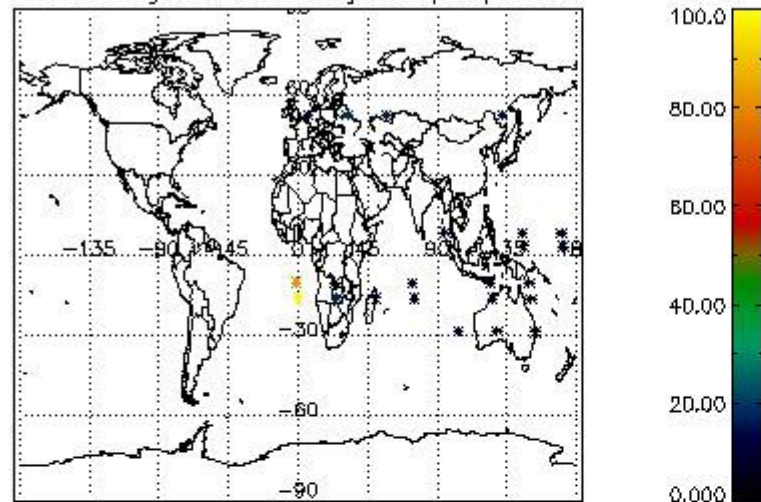
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



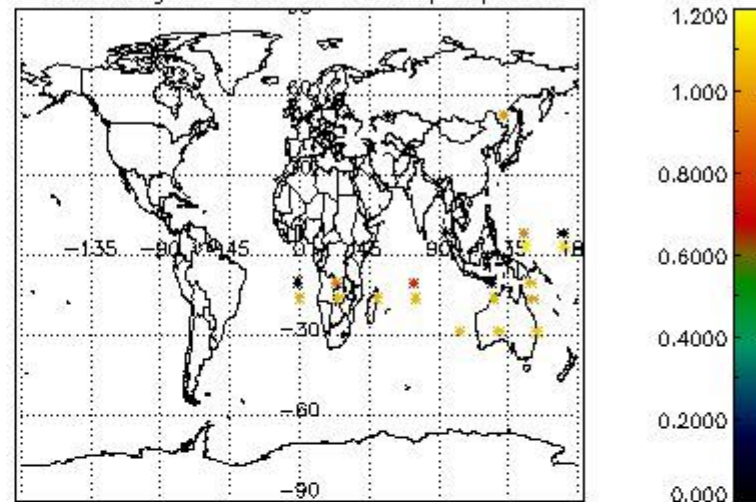
4.2 Plot quality information per product coming from level 1b processing (world map)

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

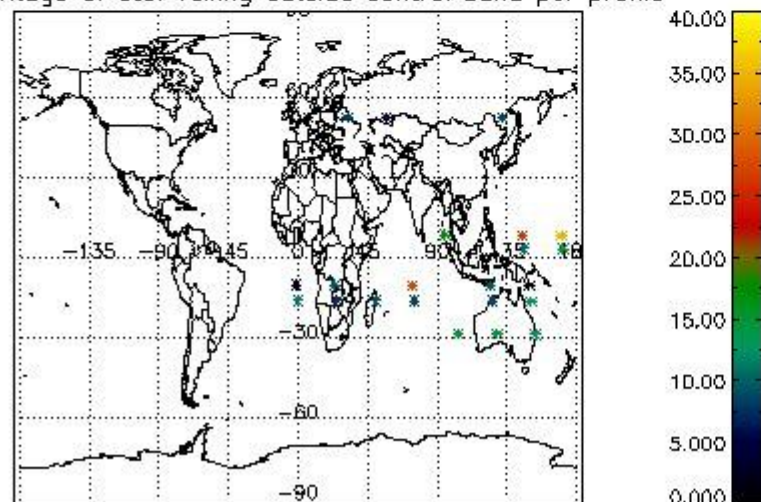
Percentage of cosmic ray hits per profile



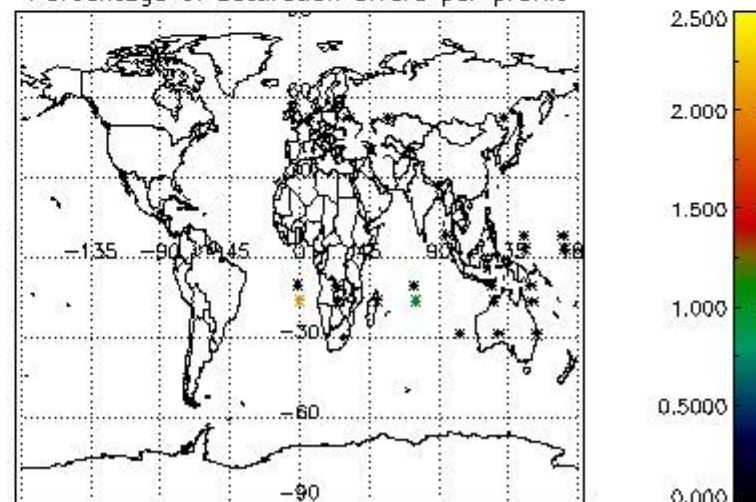
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

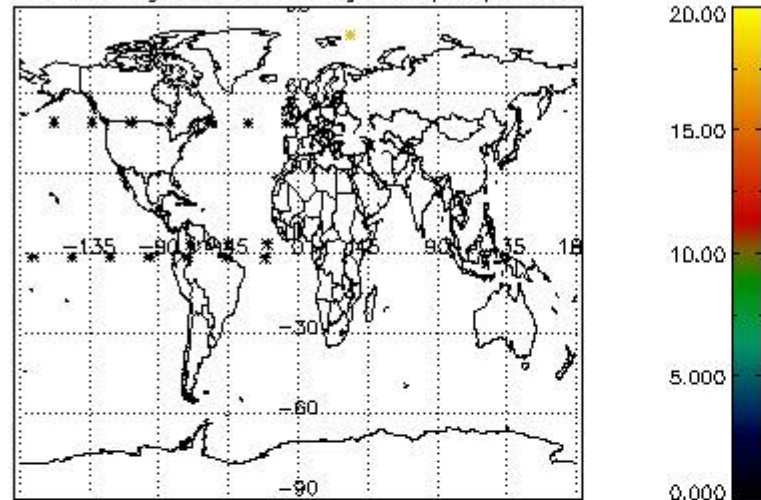


Percentage of saturation errors per profile

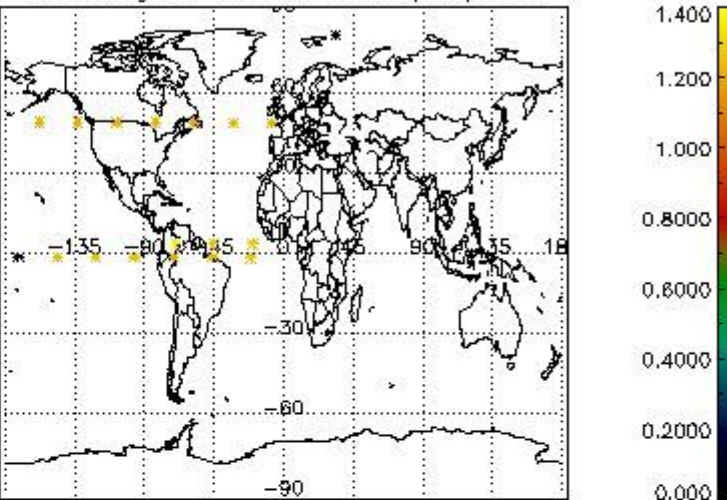


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

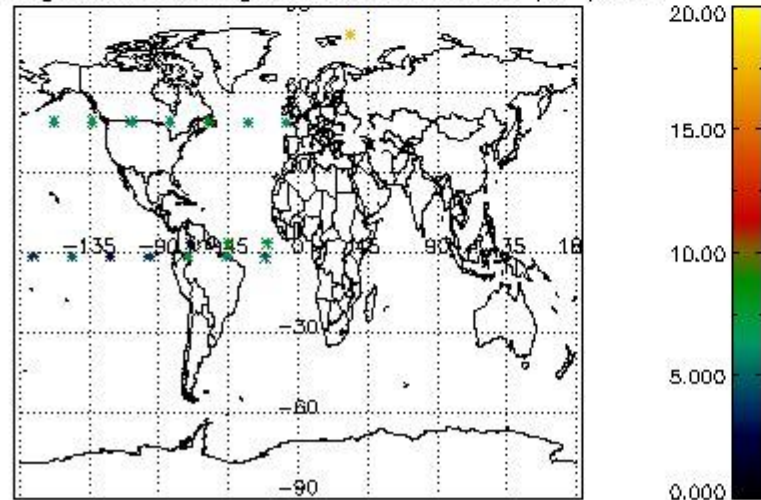
Percentage of cosmic ray hits per profile



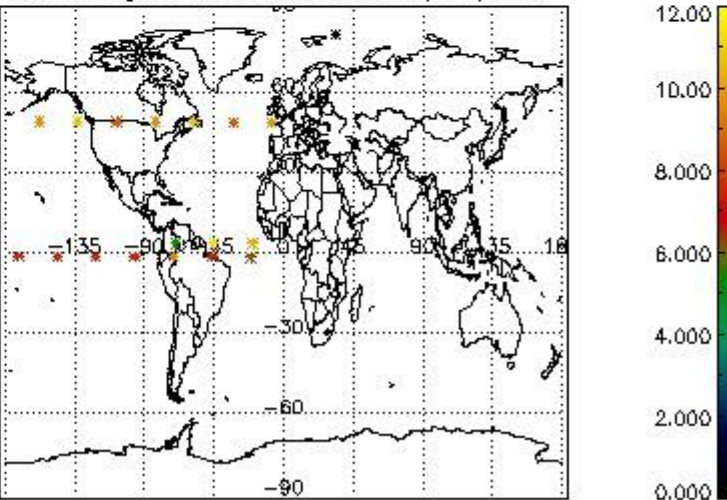
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

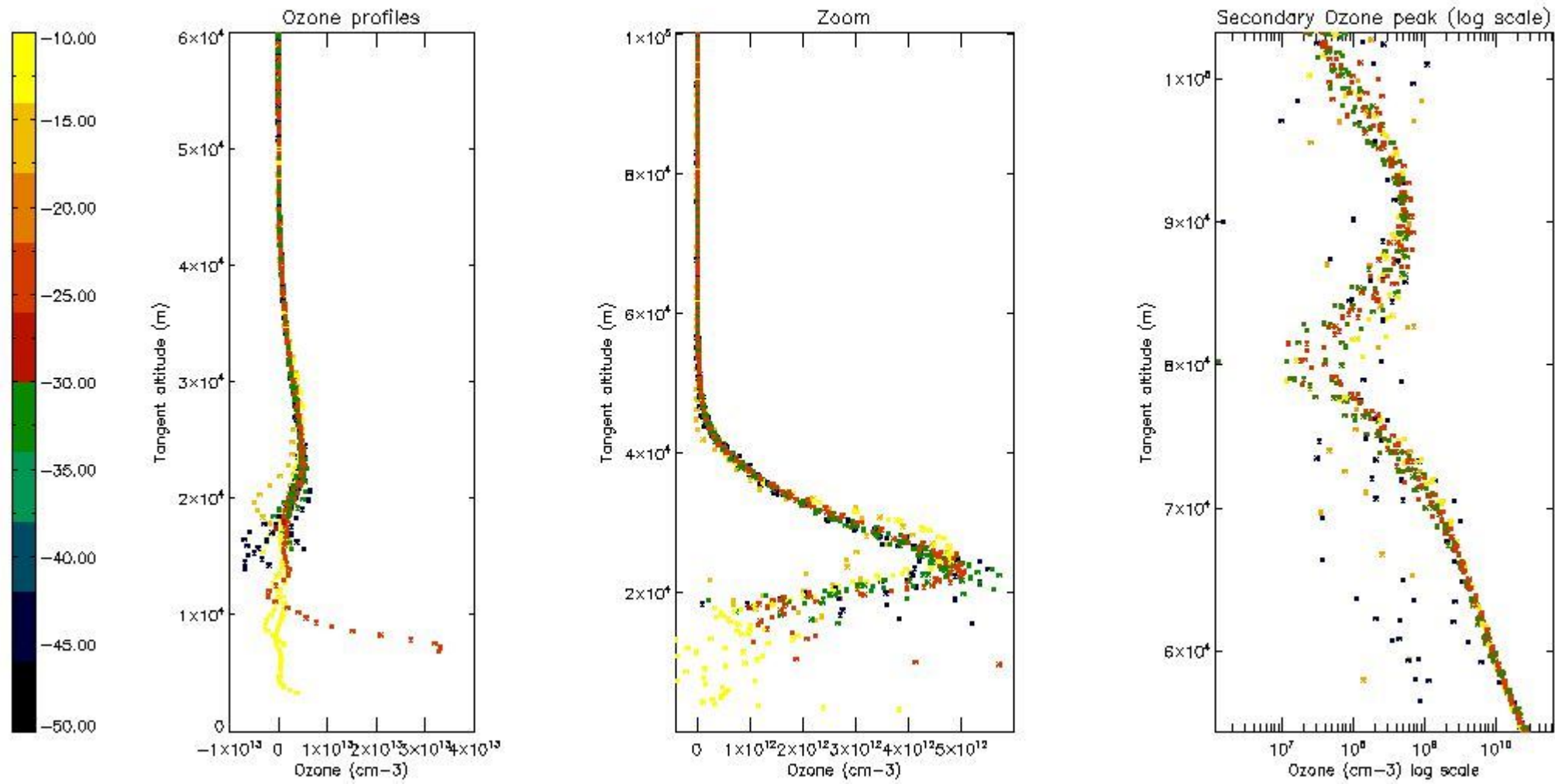
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	52
STD < 20	30

STD < 10	24
STD < 5	19

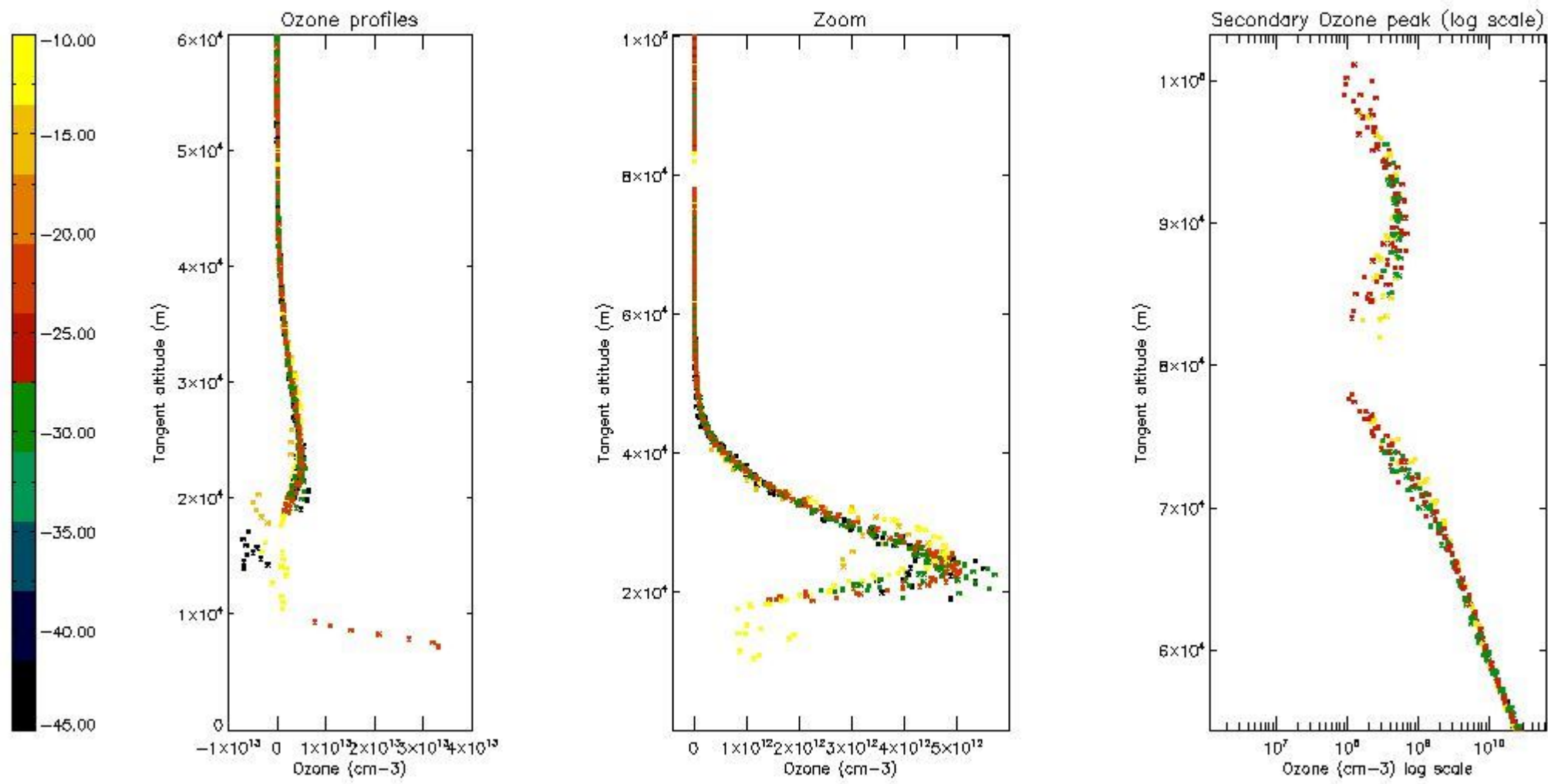
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



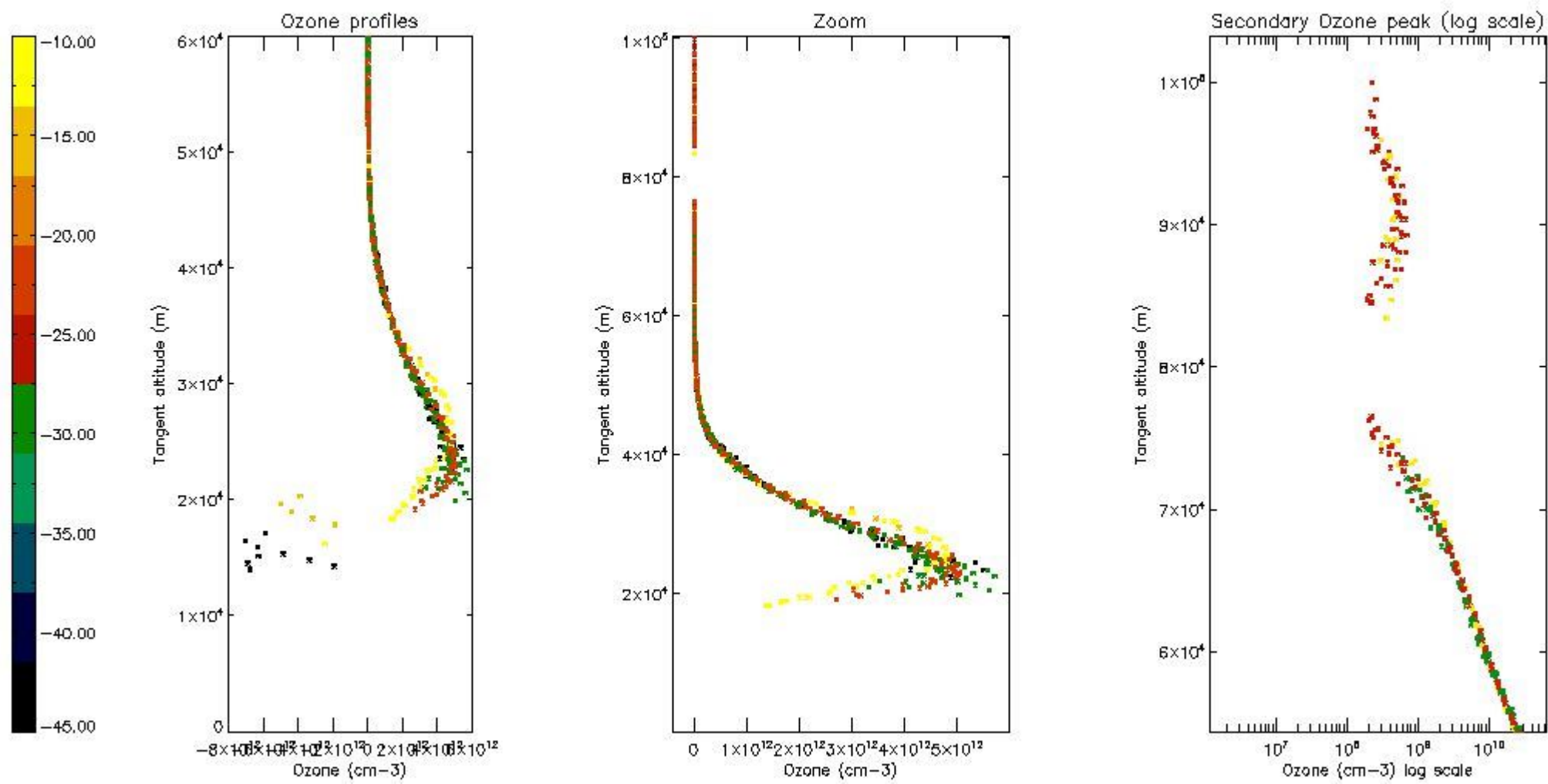
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



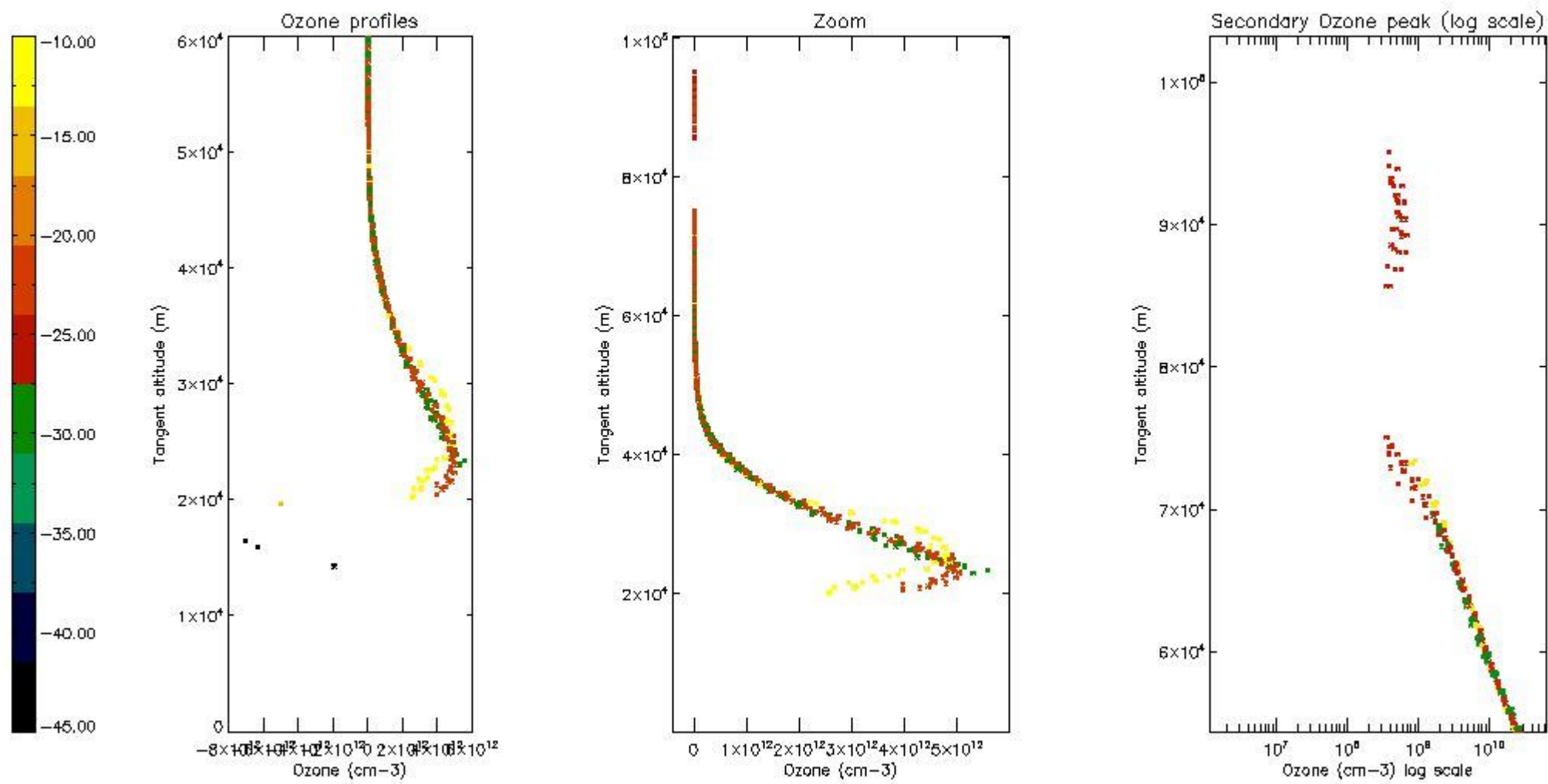
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



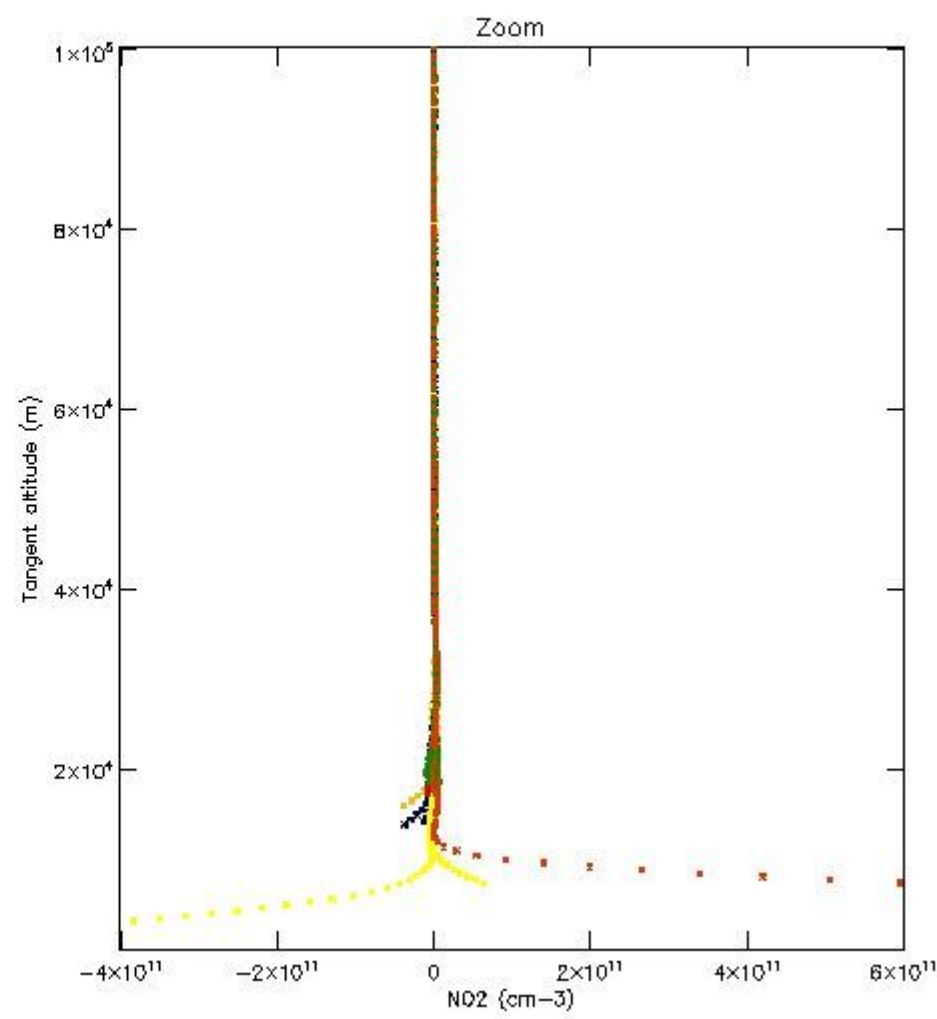
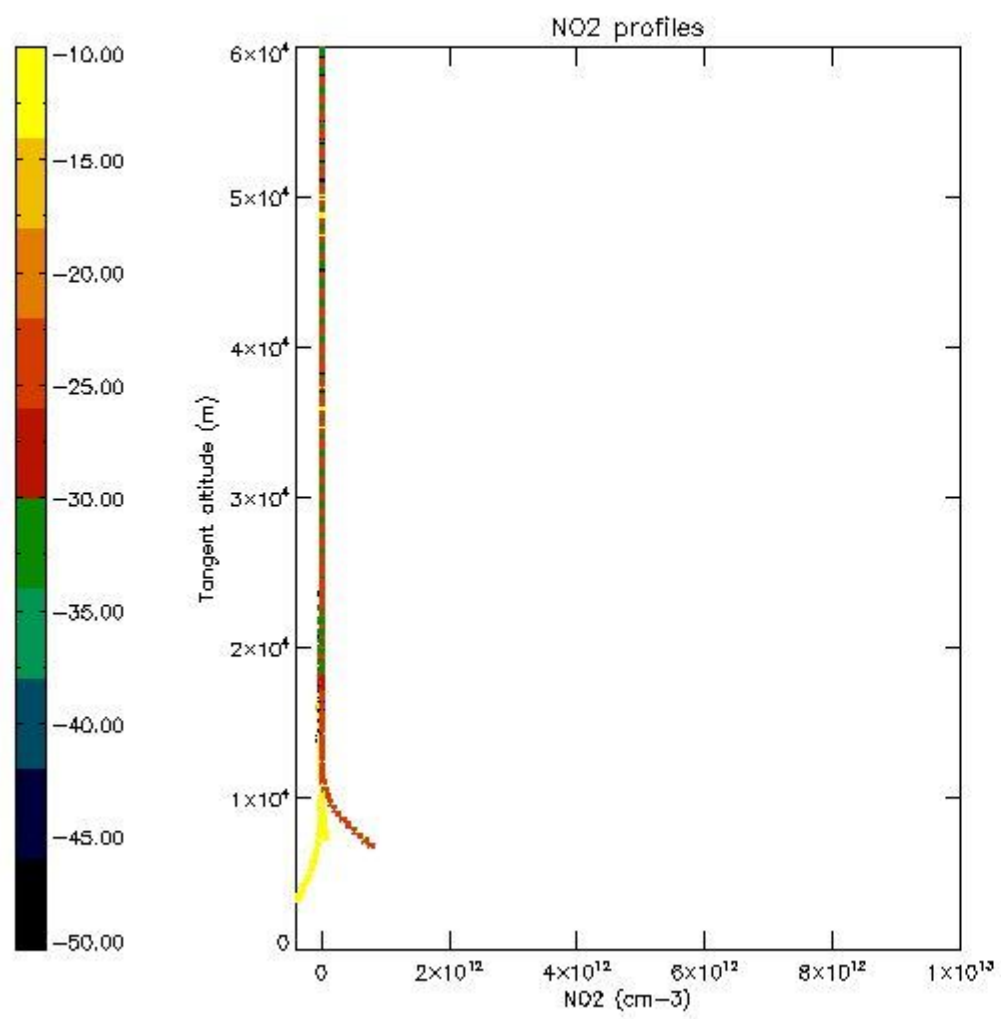
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



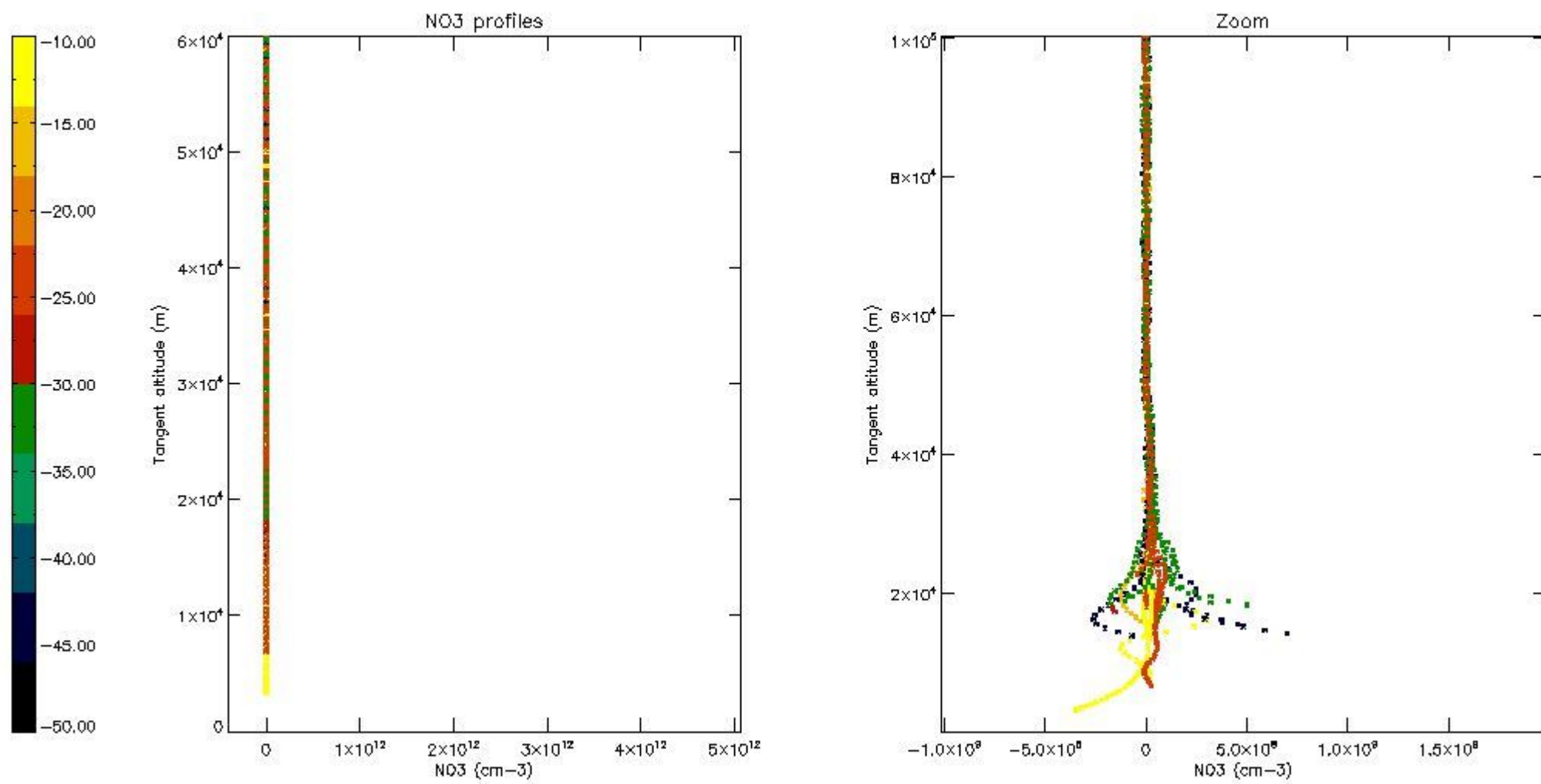
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



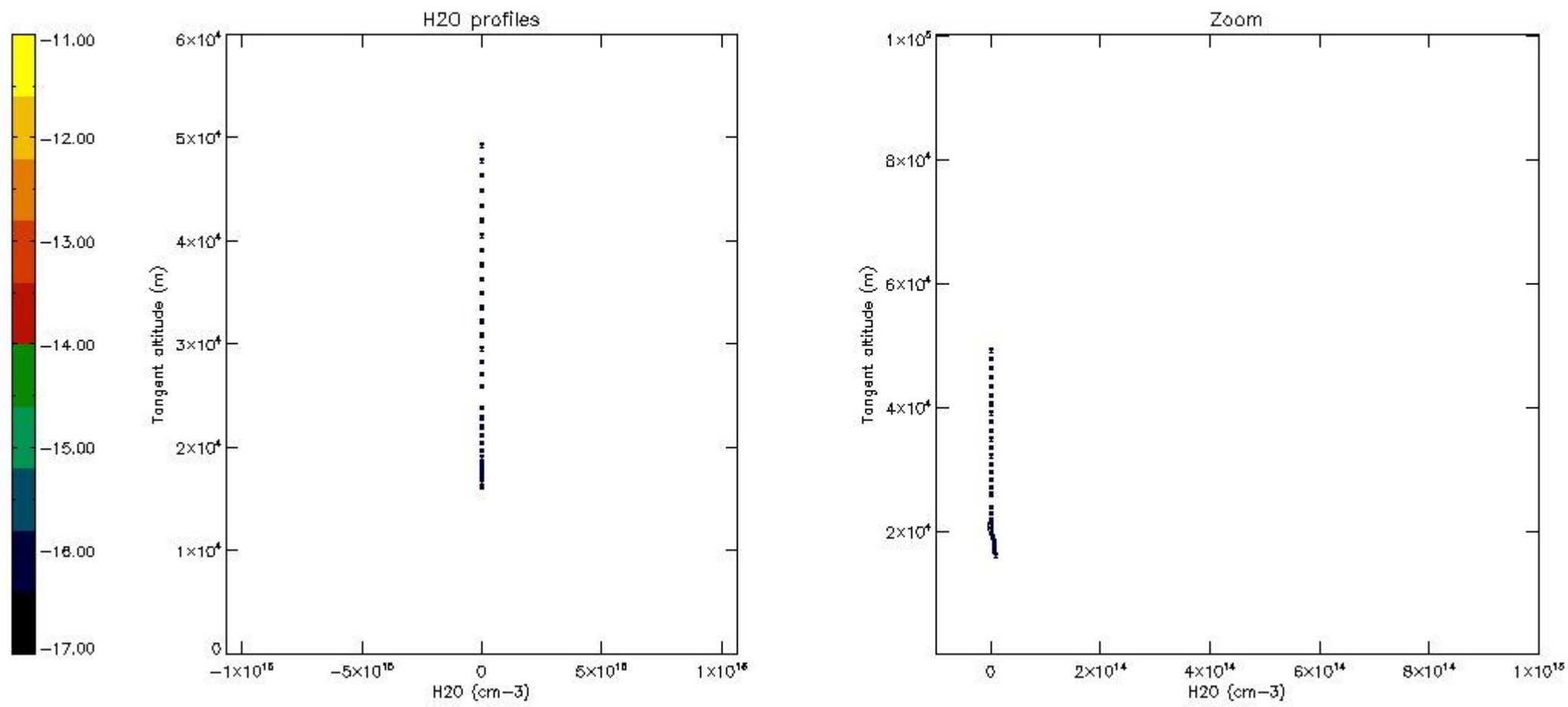
5.7 Plot NO₃ profiles for all STD (dark without errors)

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	27-SEP-2011 10:39:47
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	27-SEP-2011 10:39:47
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	27-SEP-2011 10:39:47

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[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

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[4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

[4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

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

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

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

[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

[5.1 Ozone statistics based on quality of products](#)

[5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

[5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

[5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

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

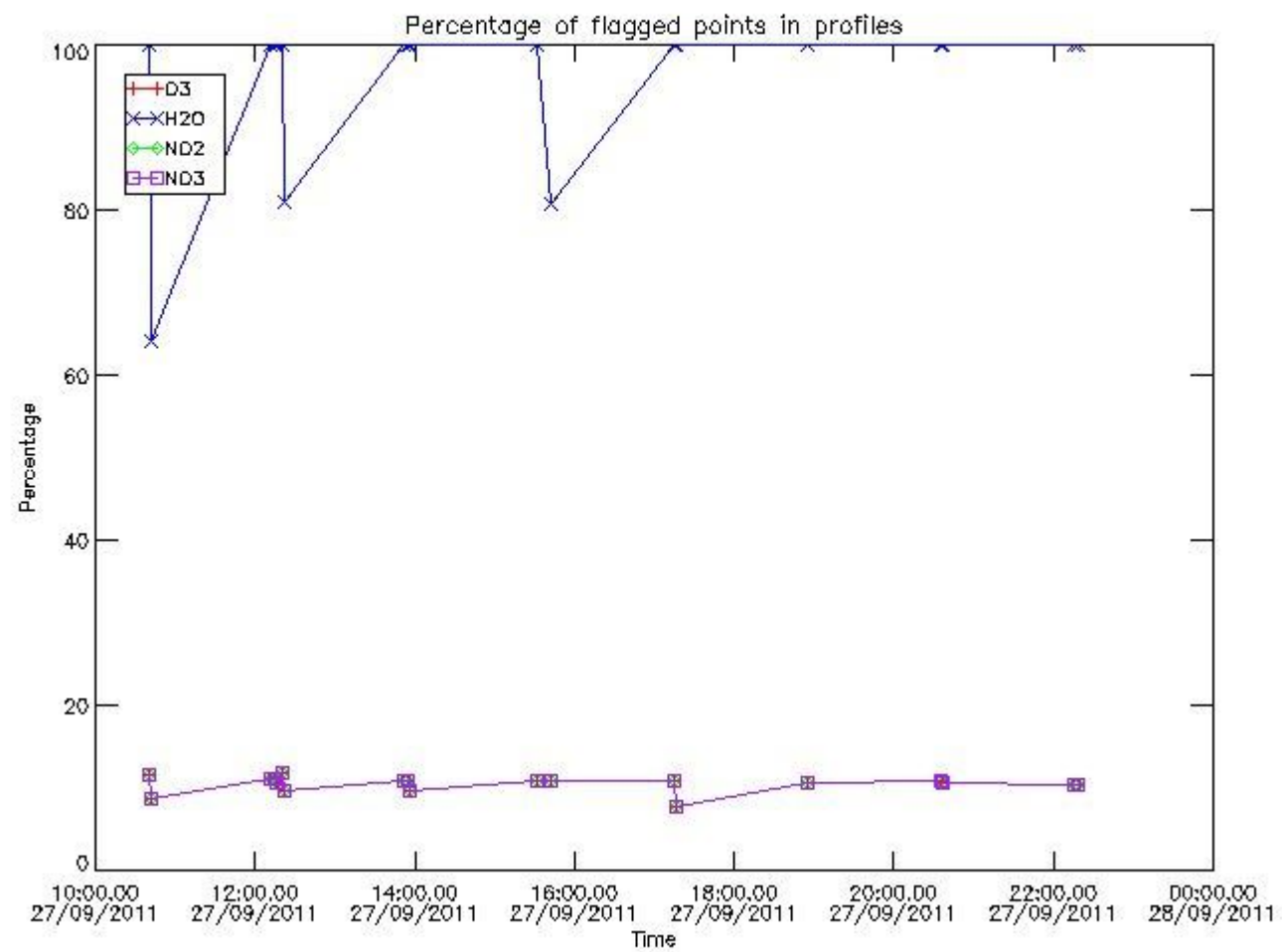
[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

[6. Auxiliary Data Files used for the production reported in section 2](#)

3. Quality information per product

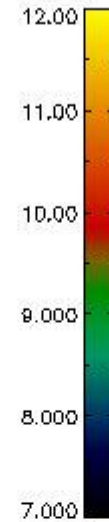
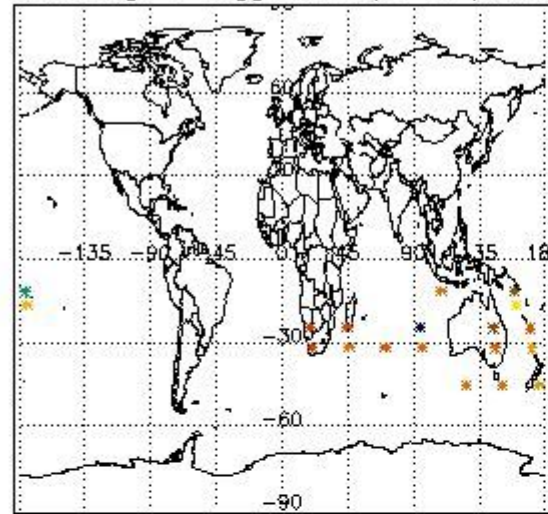
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

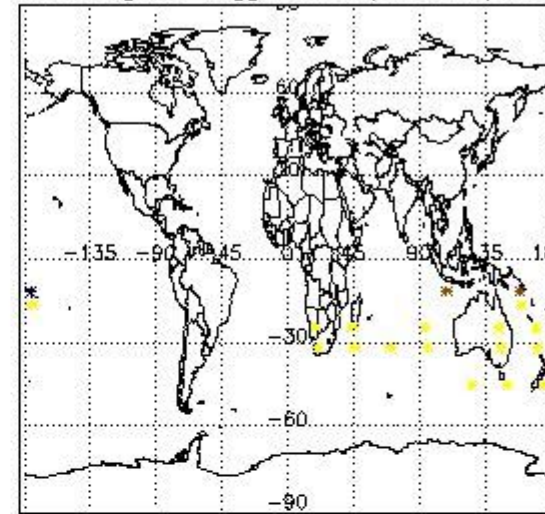


3.2 Plot quality information per product (world map)

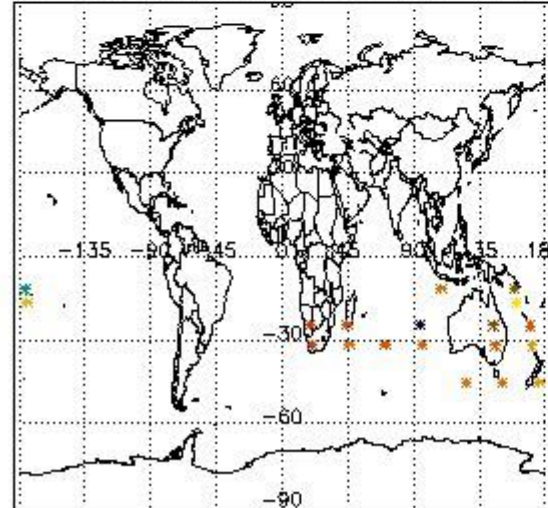
Percentage of flagged data per O3 profile



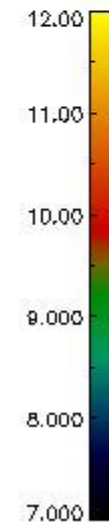
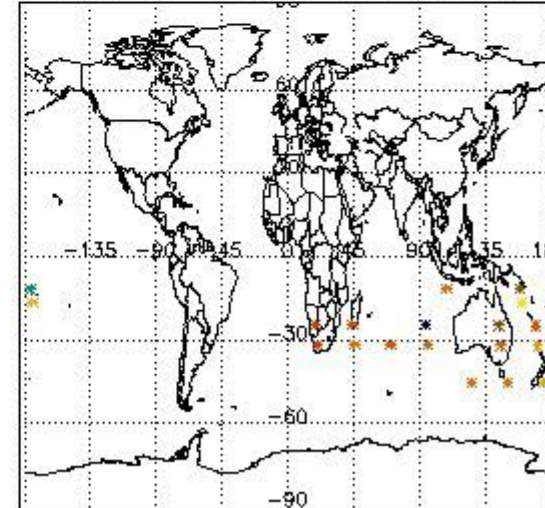
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

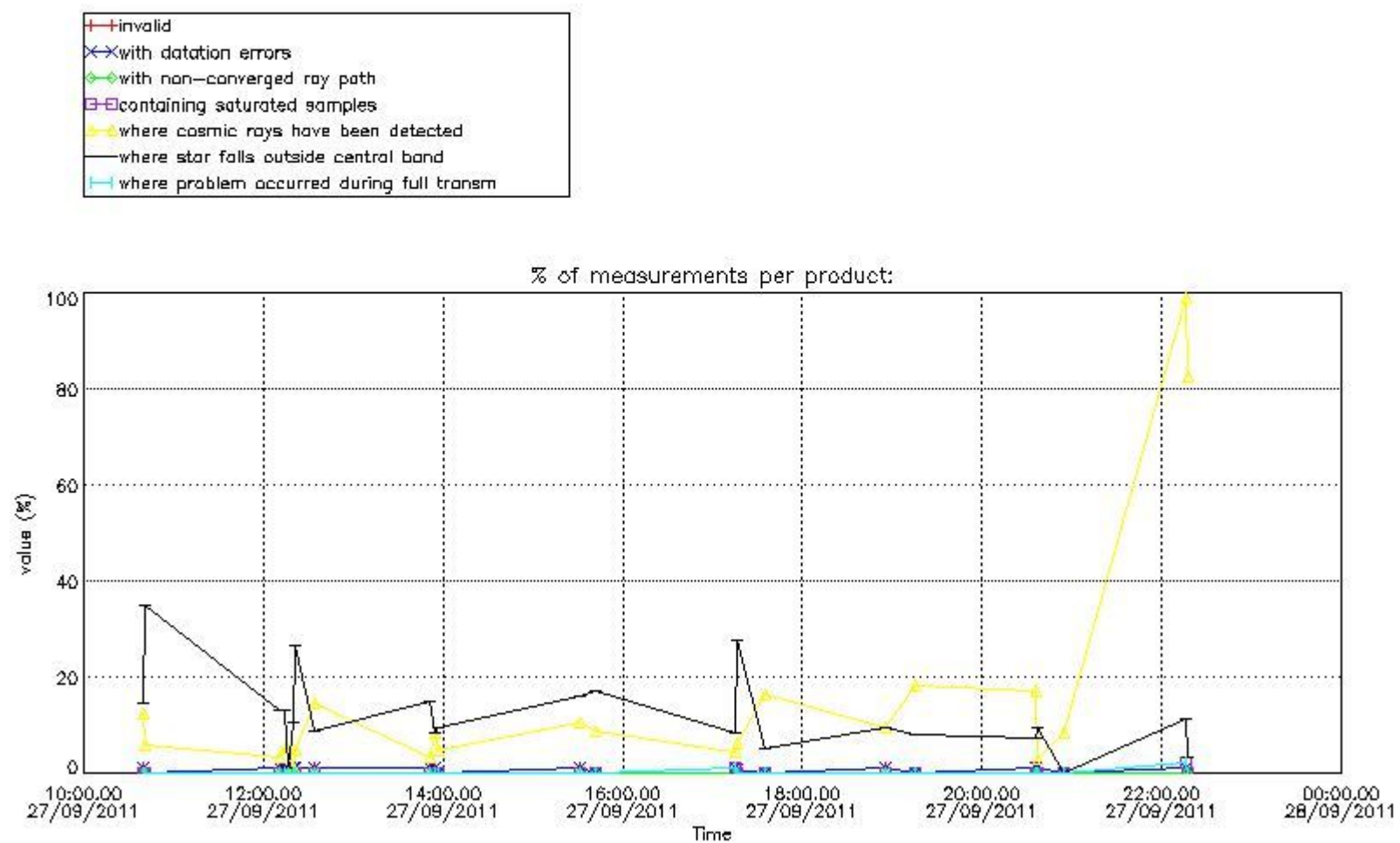


4. Level 1 quality information per product

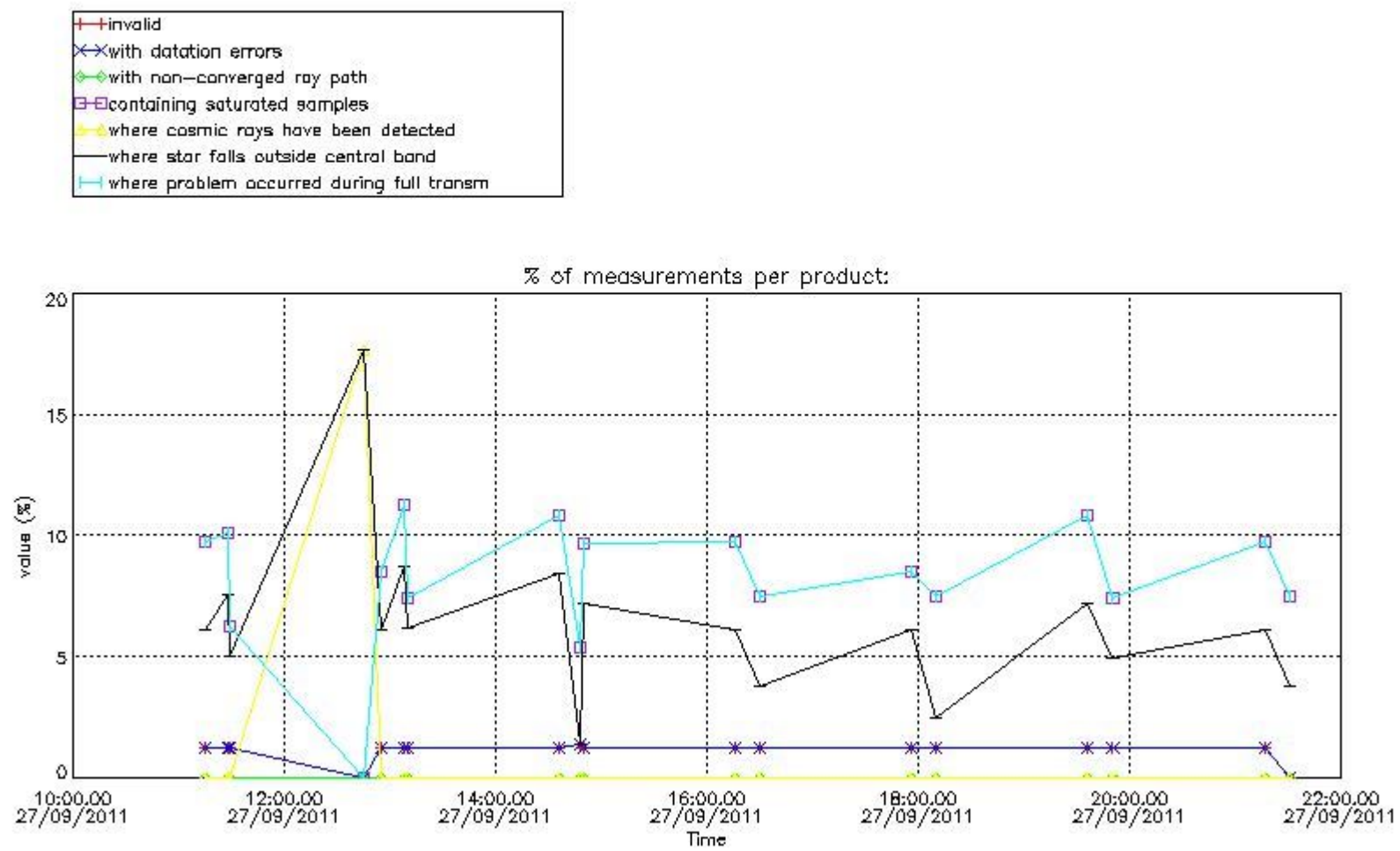
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



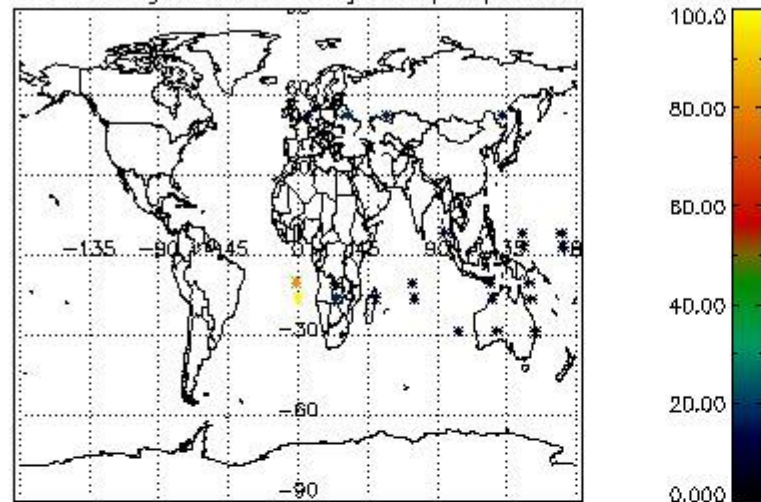
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



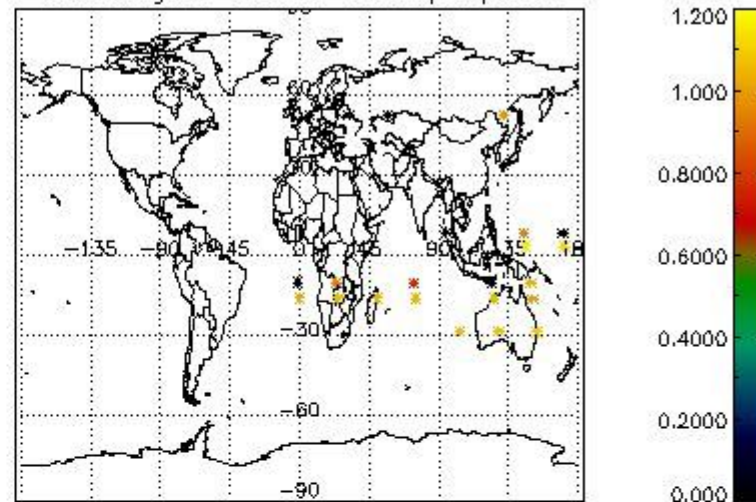
4.2 Plot quality information per product coming from level 1b processing (world map)

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

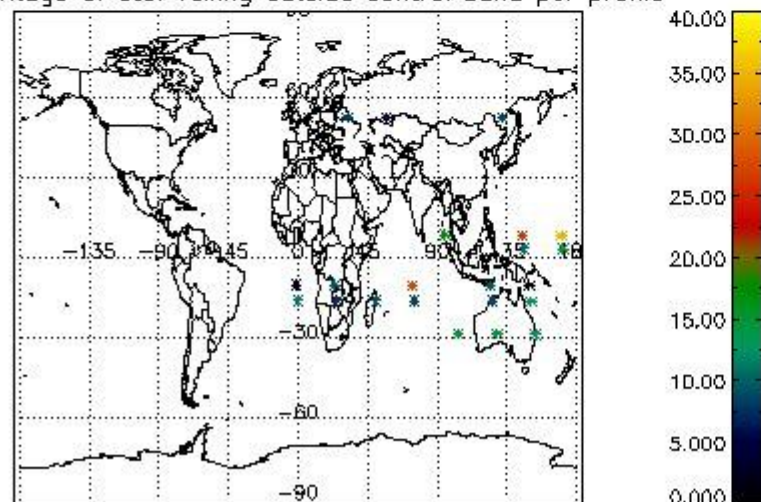
Percentage of cosmic ray hits per profile



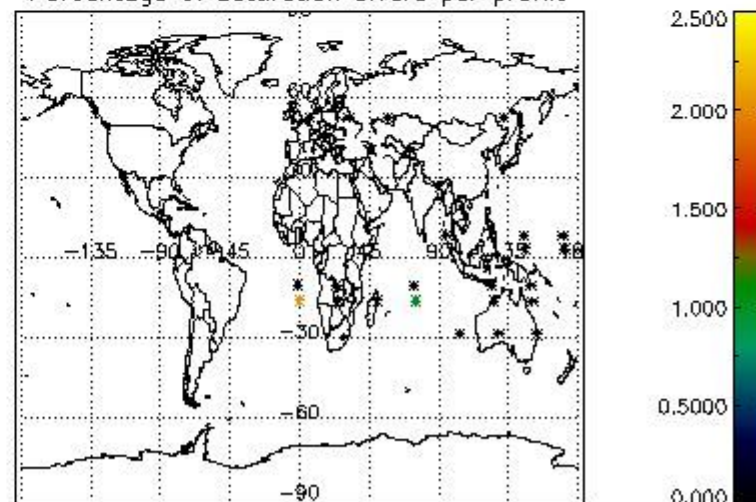
Percentage of datation errors per profile



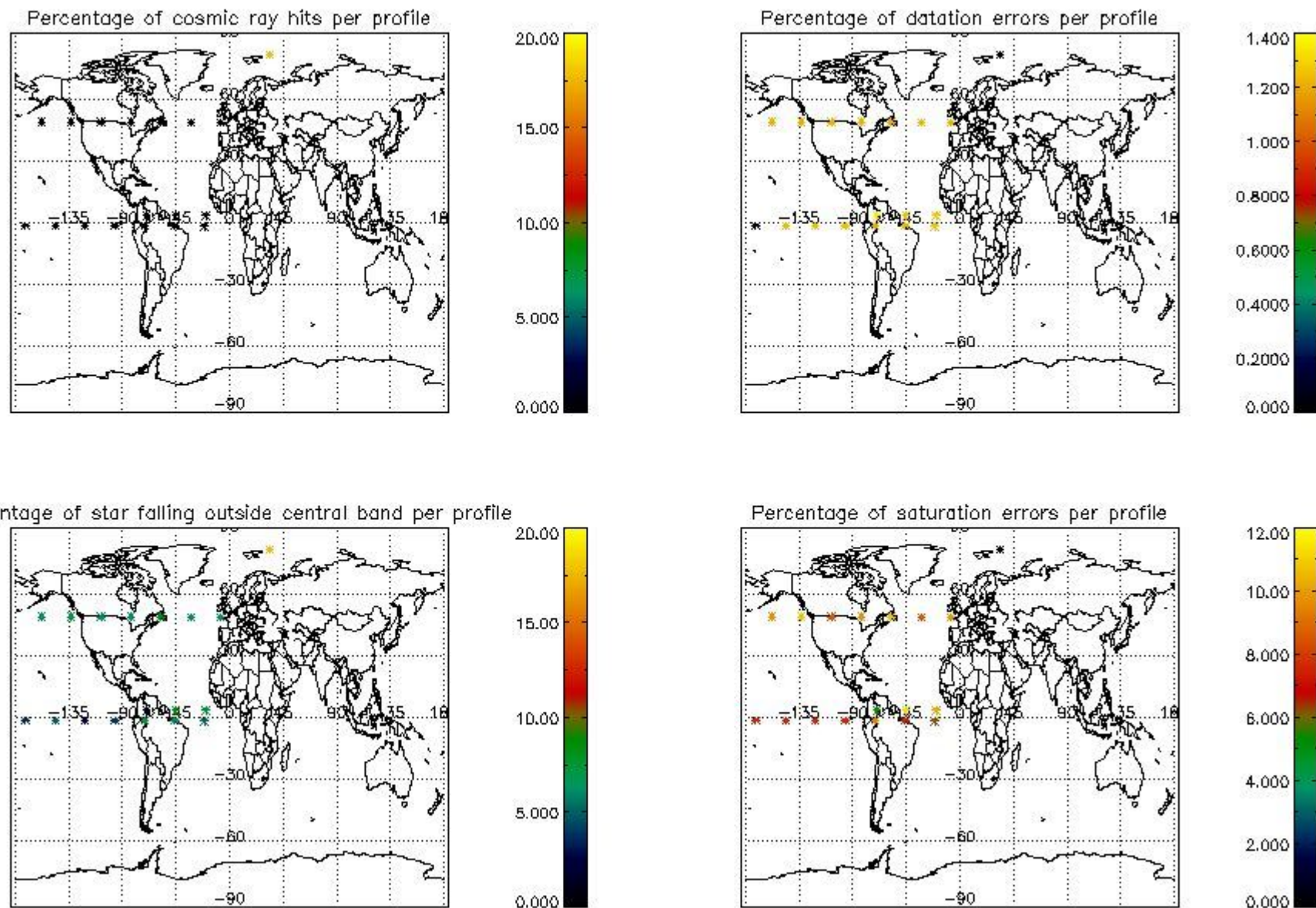
Percentage of star falling outside central band per profile



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

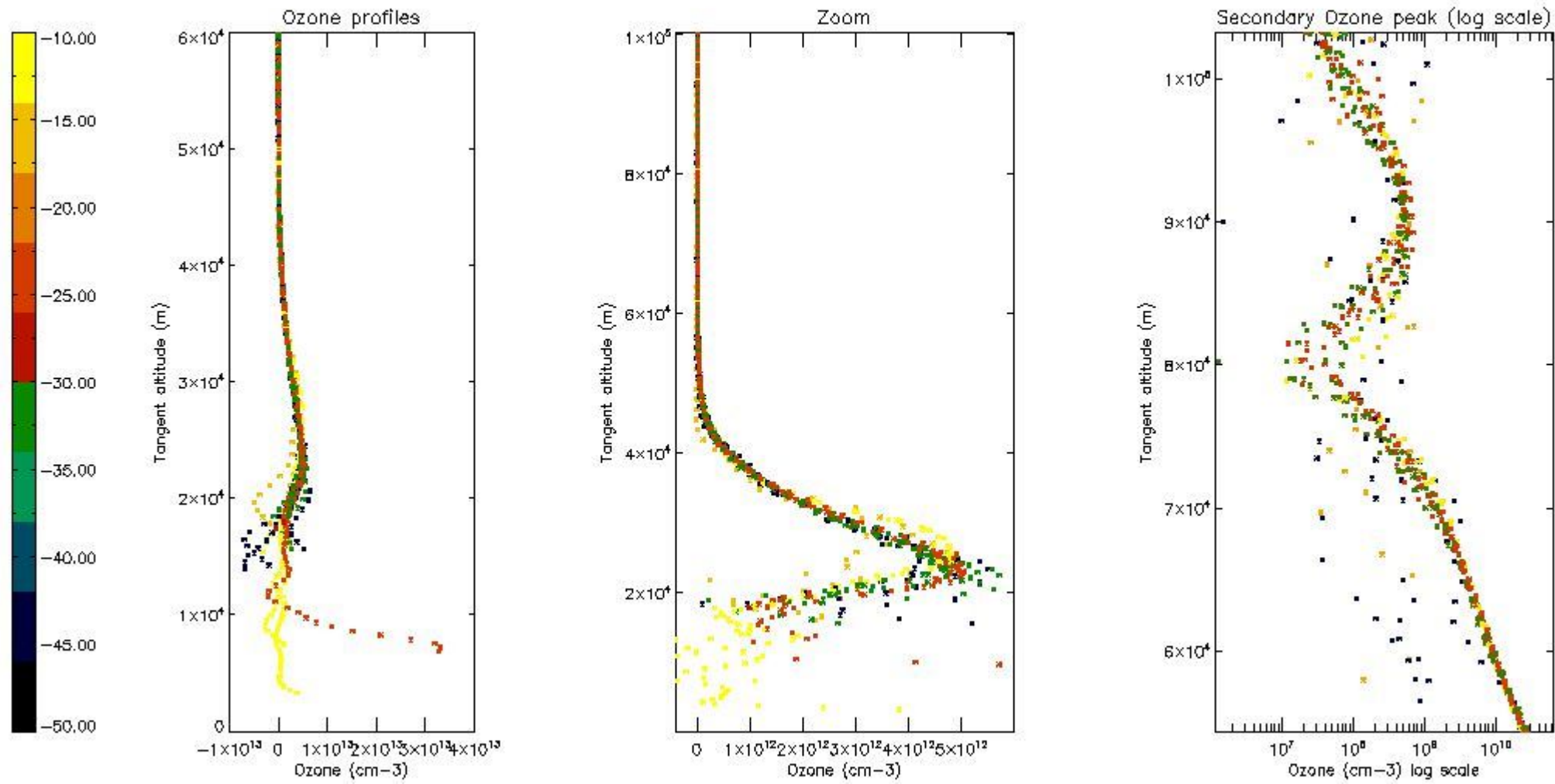
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	52
STD < 20	30

STD < 10	24
STD < 5	19

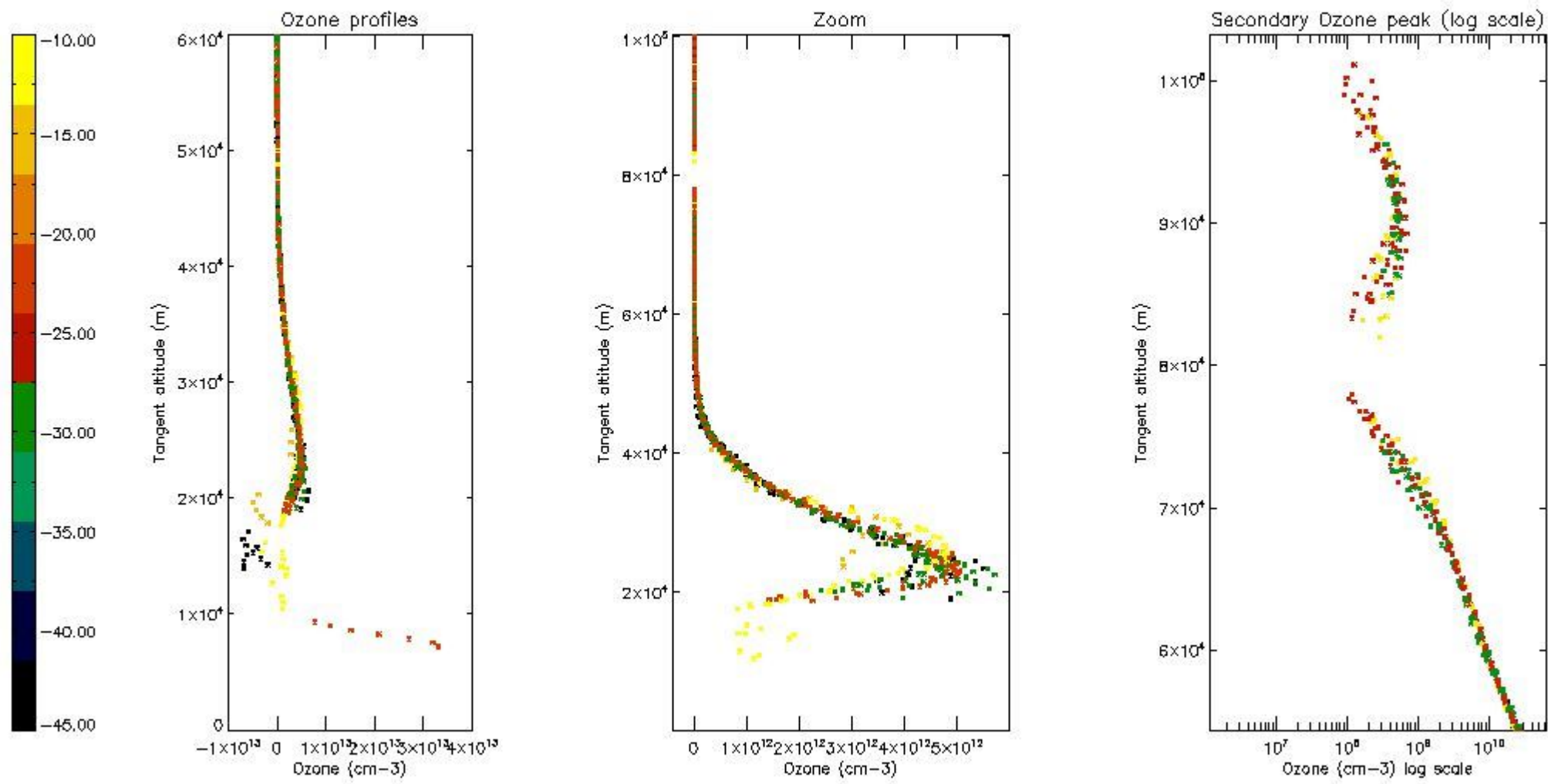
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



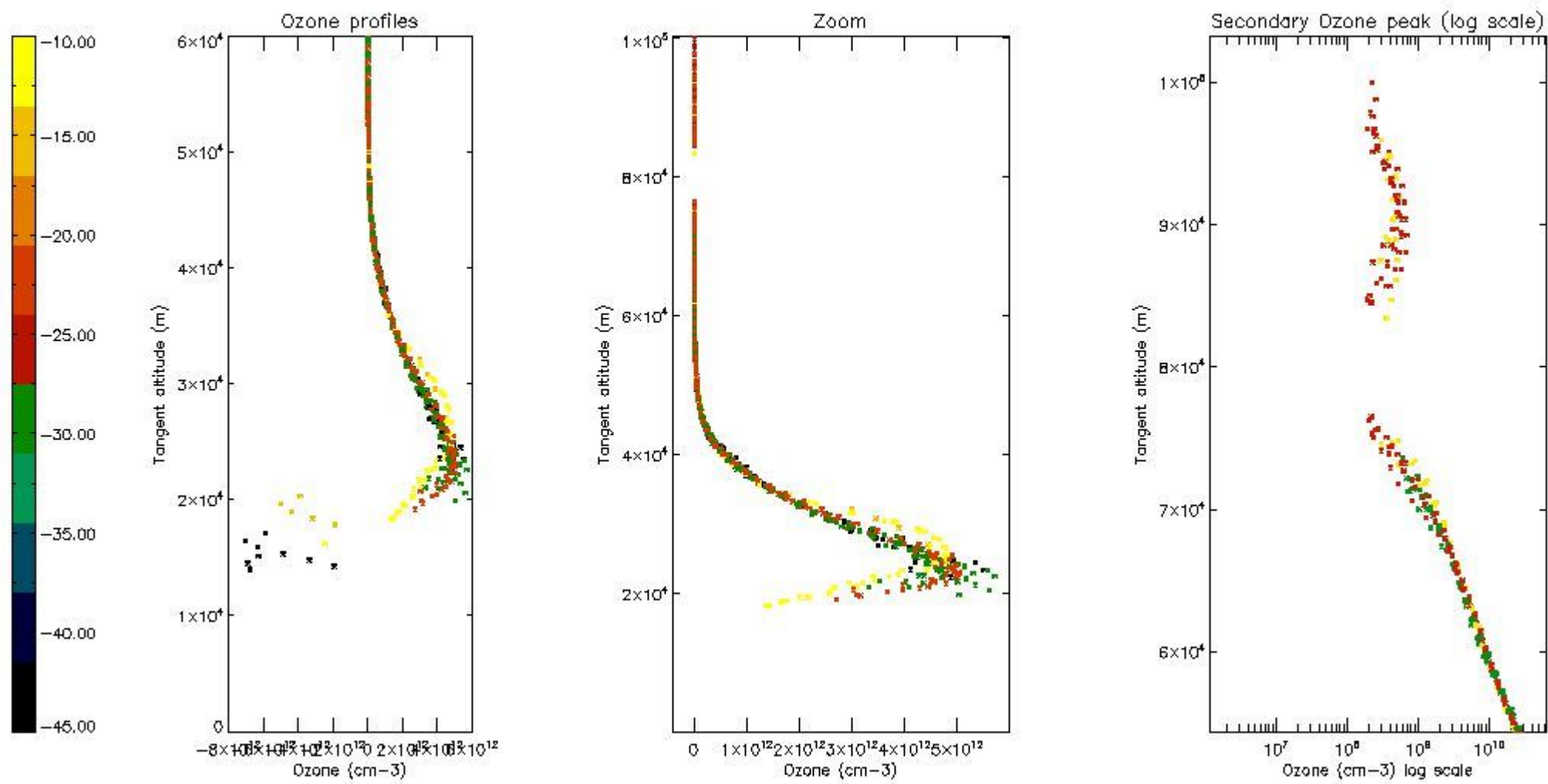
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



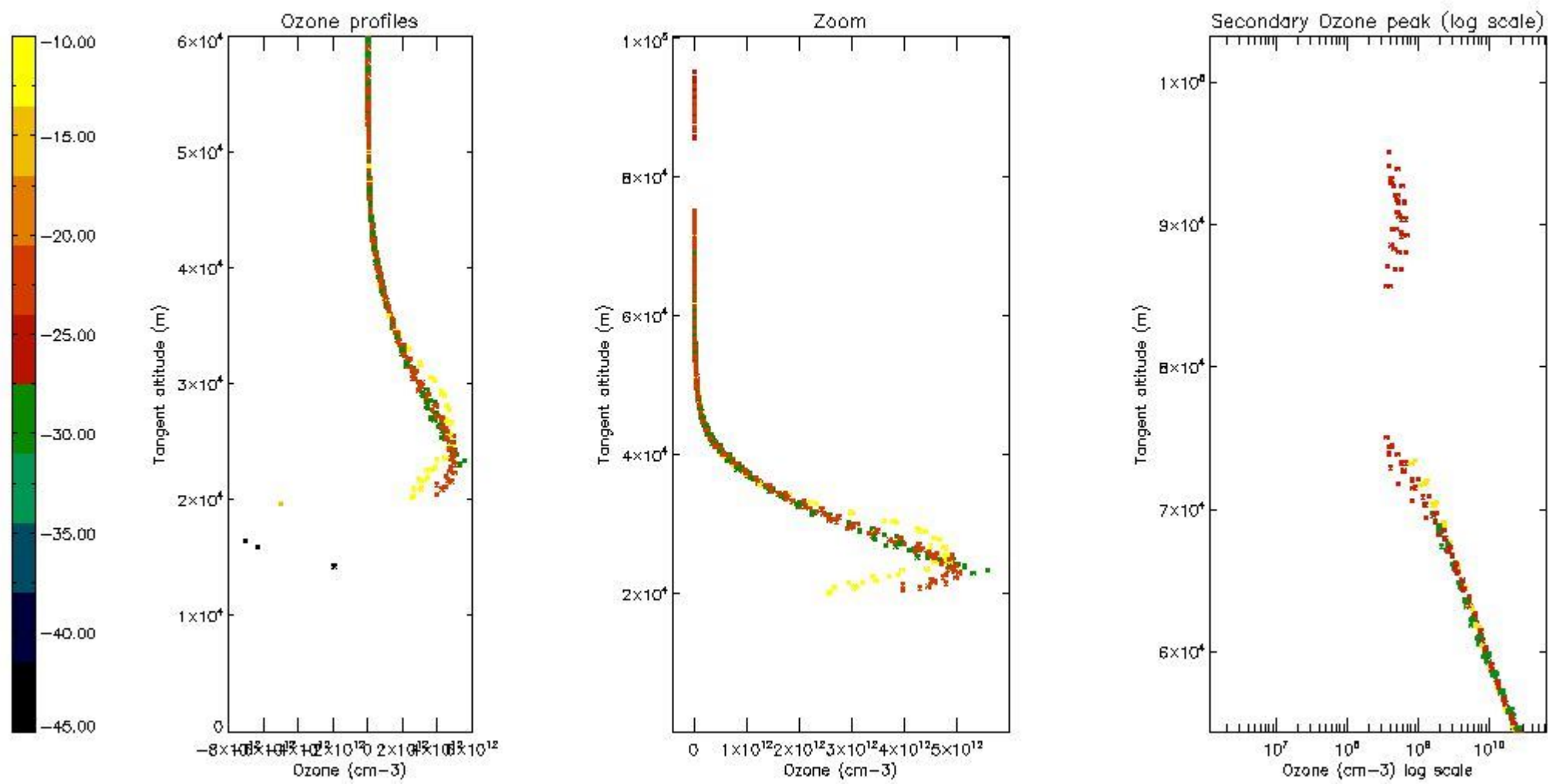
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



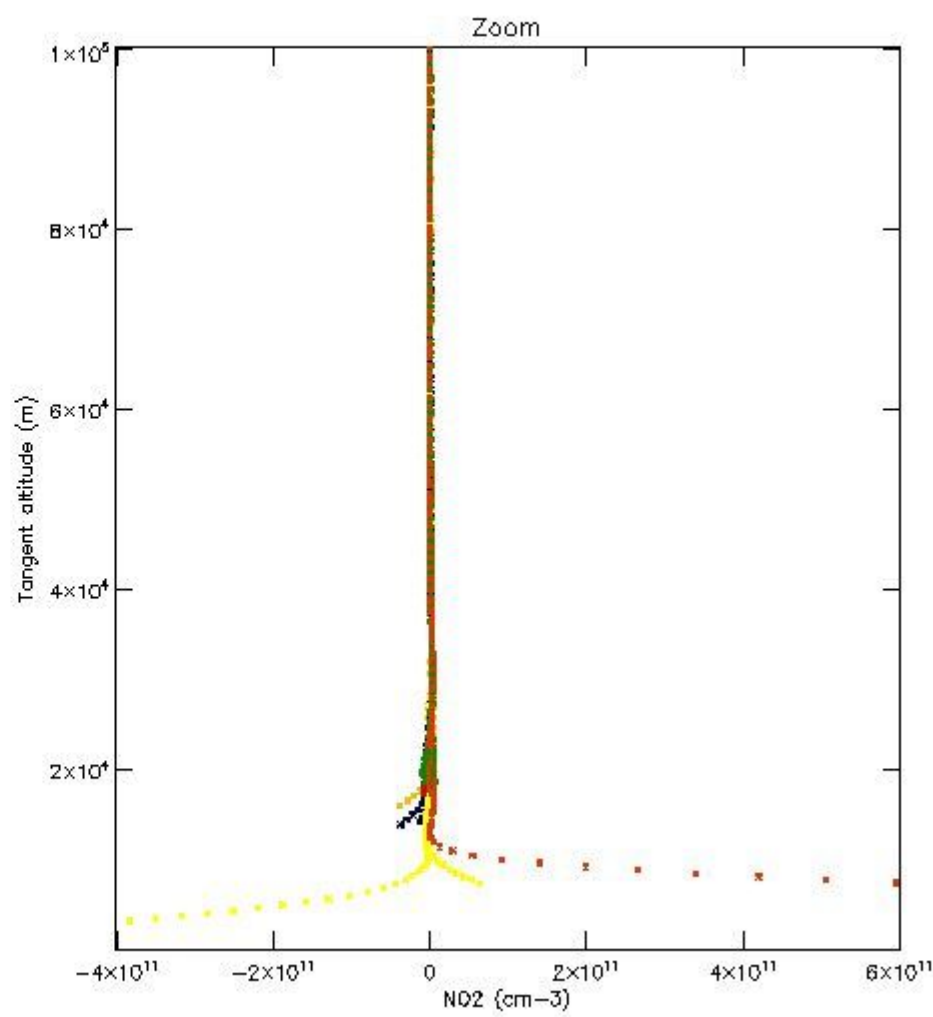
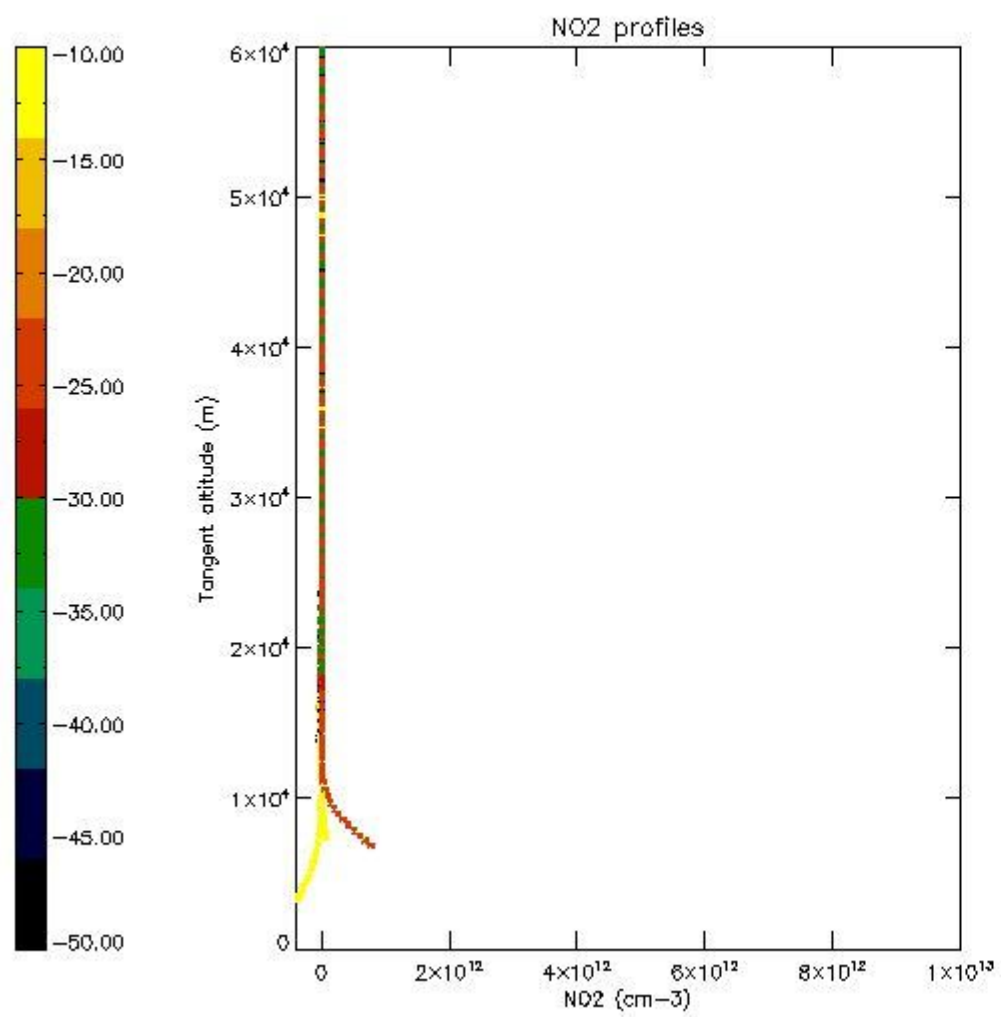
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



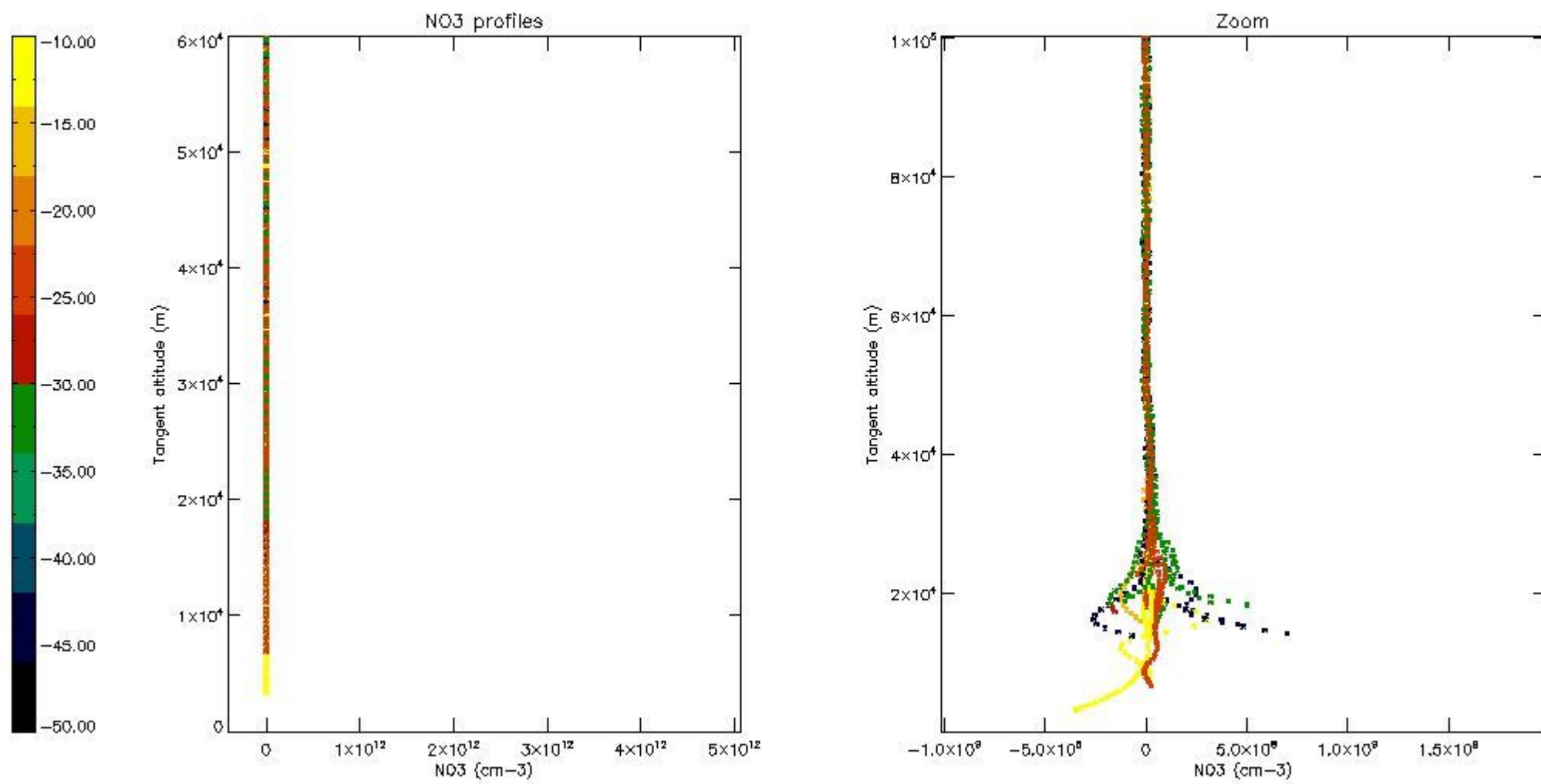
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



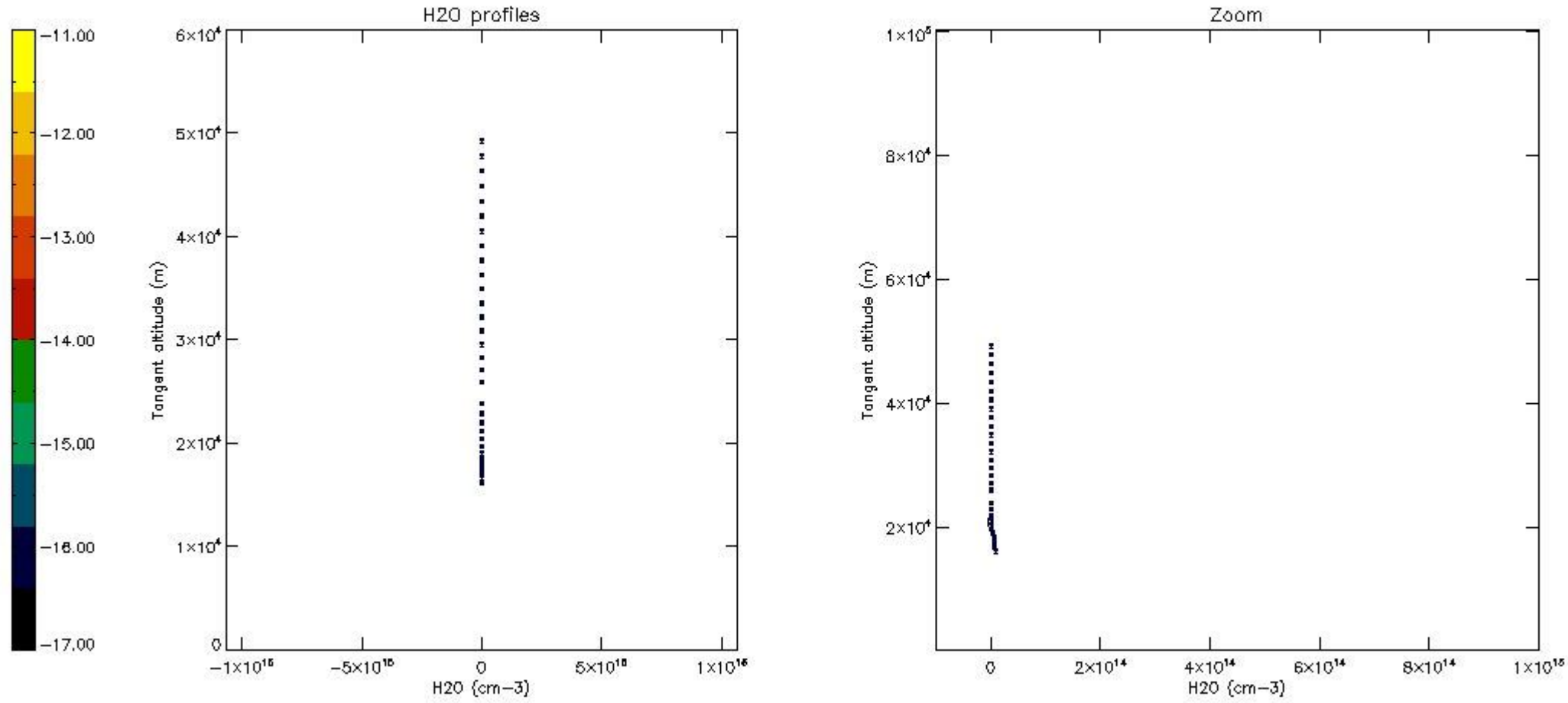
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

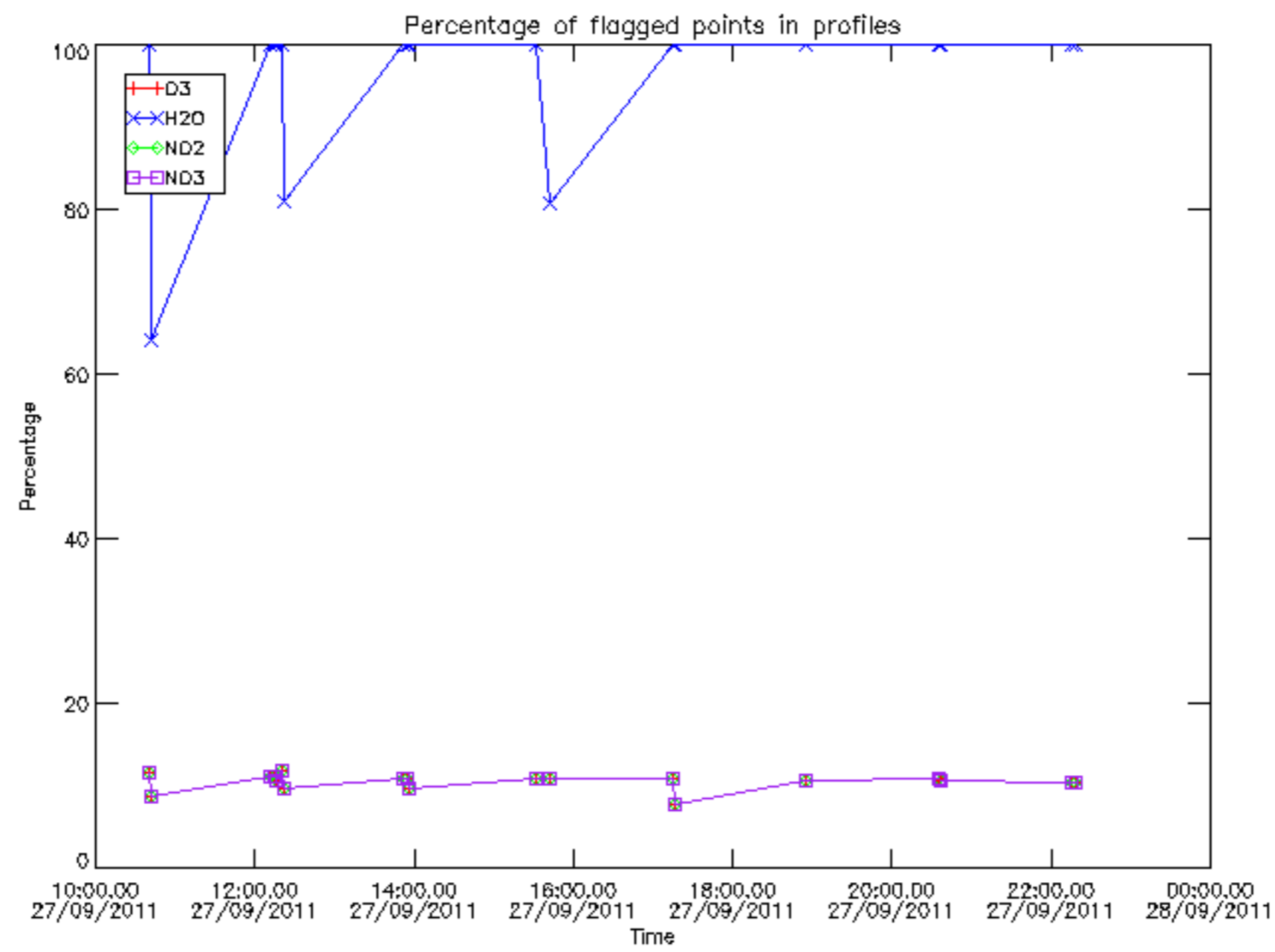
The colorbar represents the latitude.



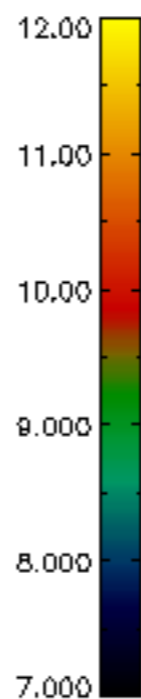
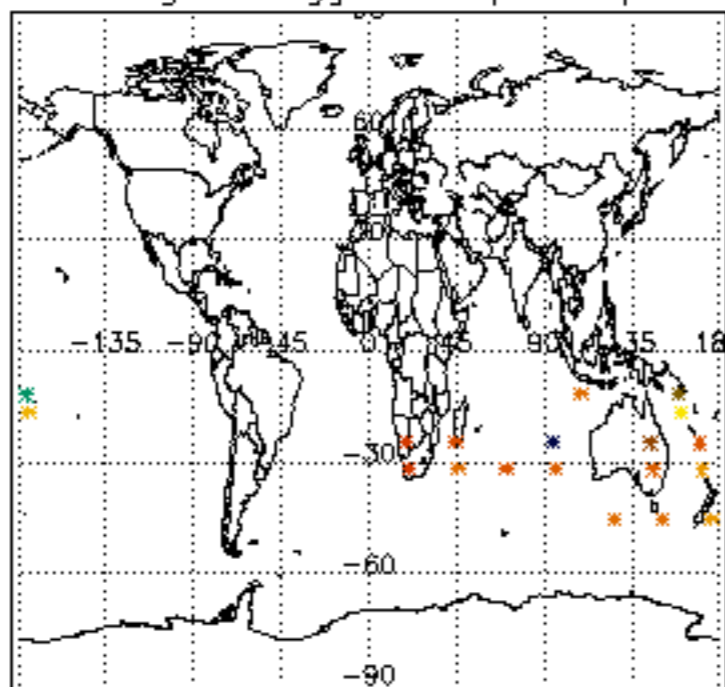
6. Auxiliary Data Files used for the production reported in section 2

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.

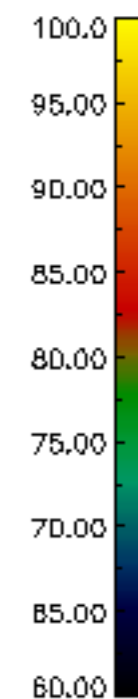
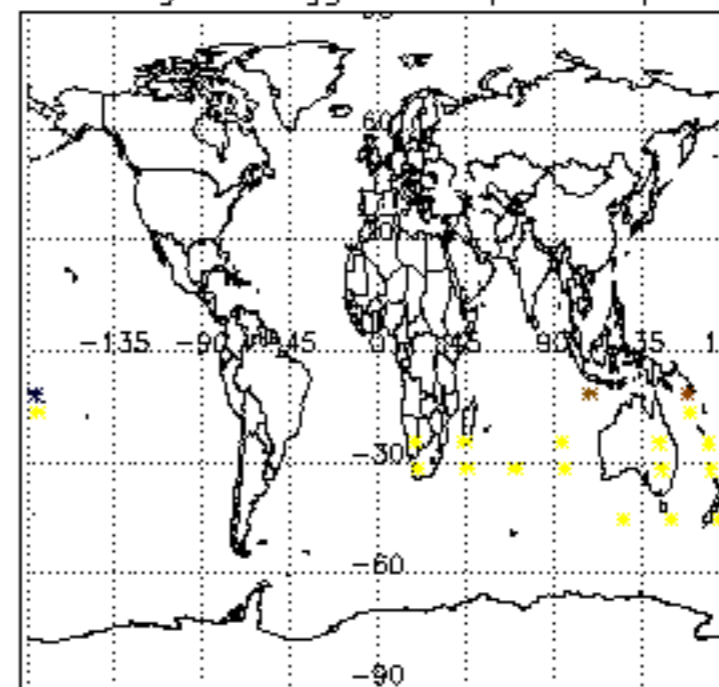
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	27-SEP-2011 10:39:47
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	27-SEP-2011 10:39:47
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	27-SEP-2011 10:39:47



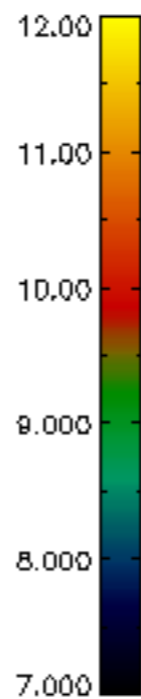
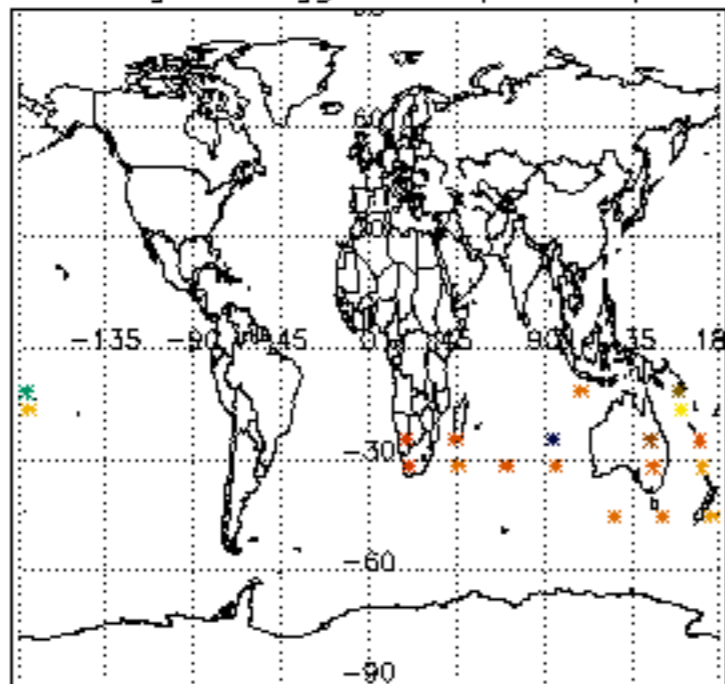
Percentage of flagged data per D3 profile



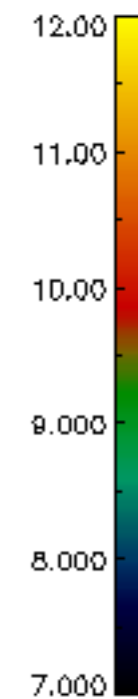
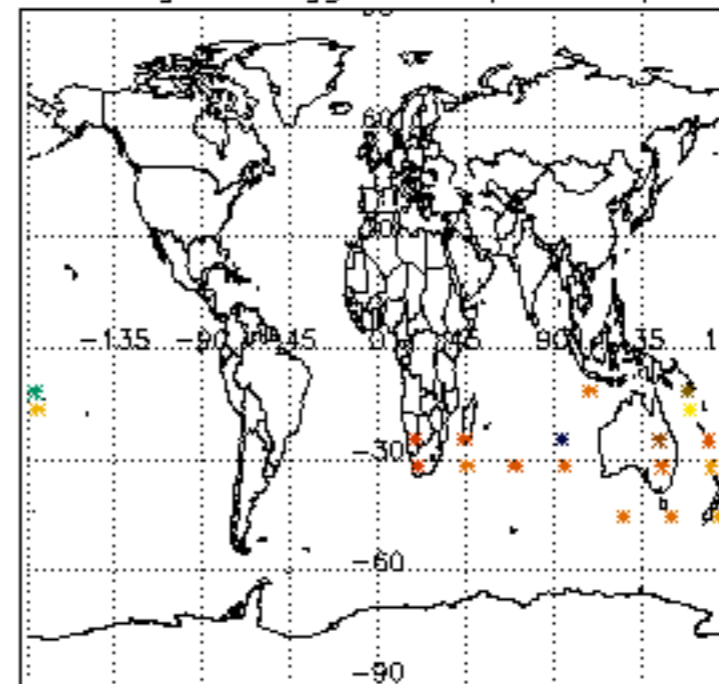
Percentage of flagged data per H2O profile

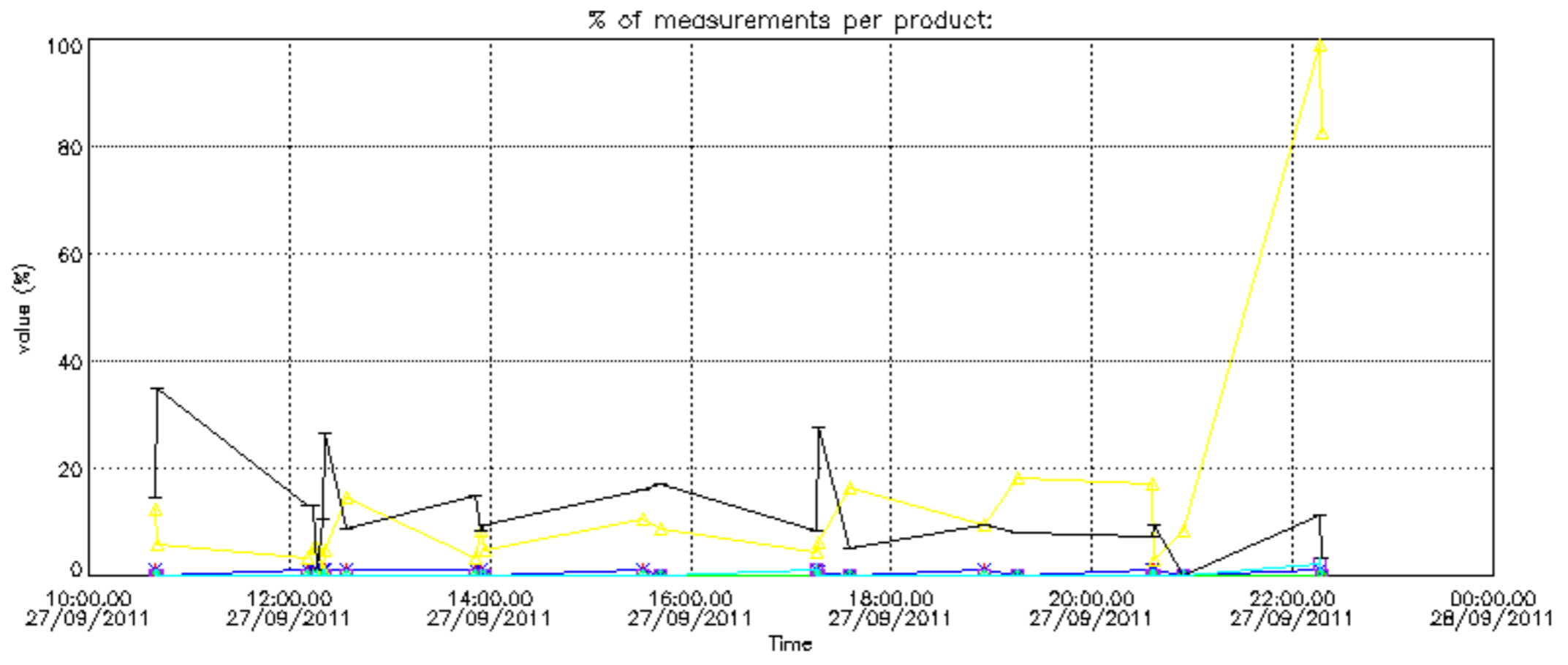


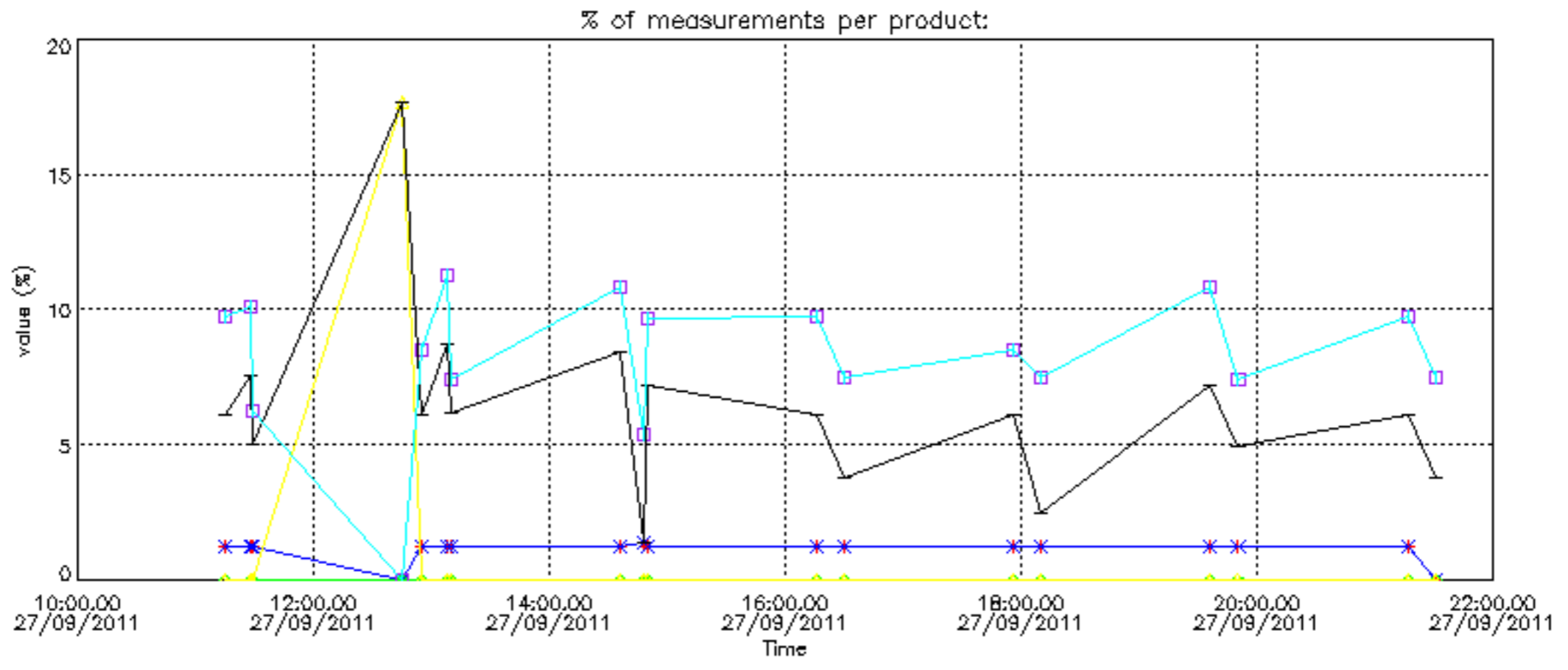
Percentage of flagged data per NO2 profile



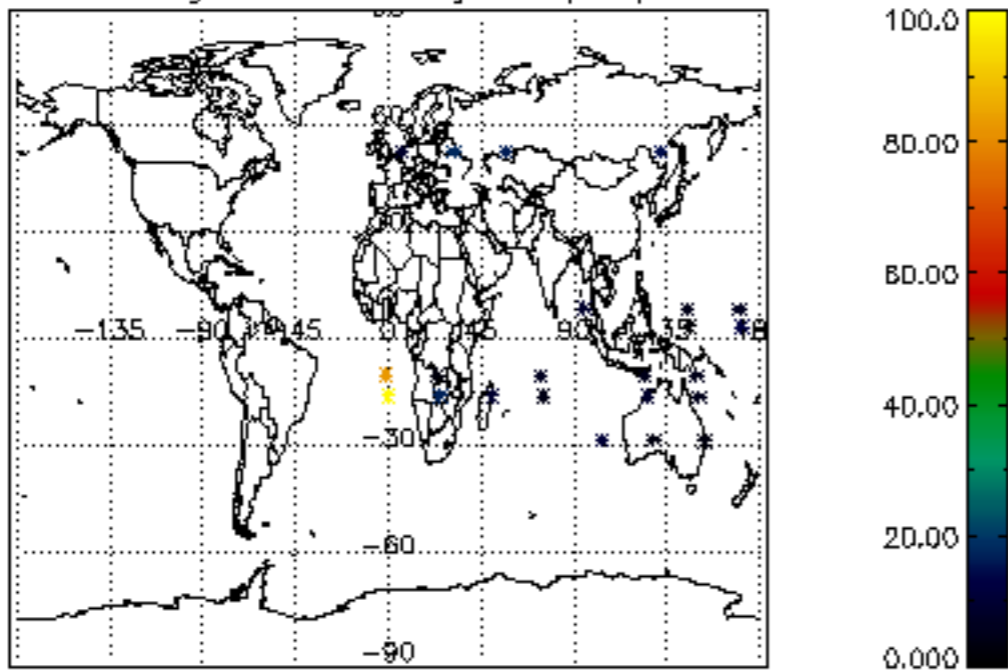
Percentage of flagged data per NO3 profile



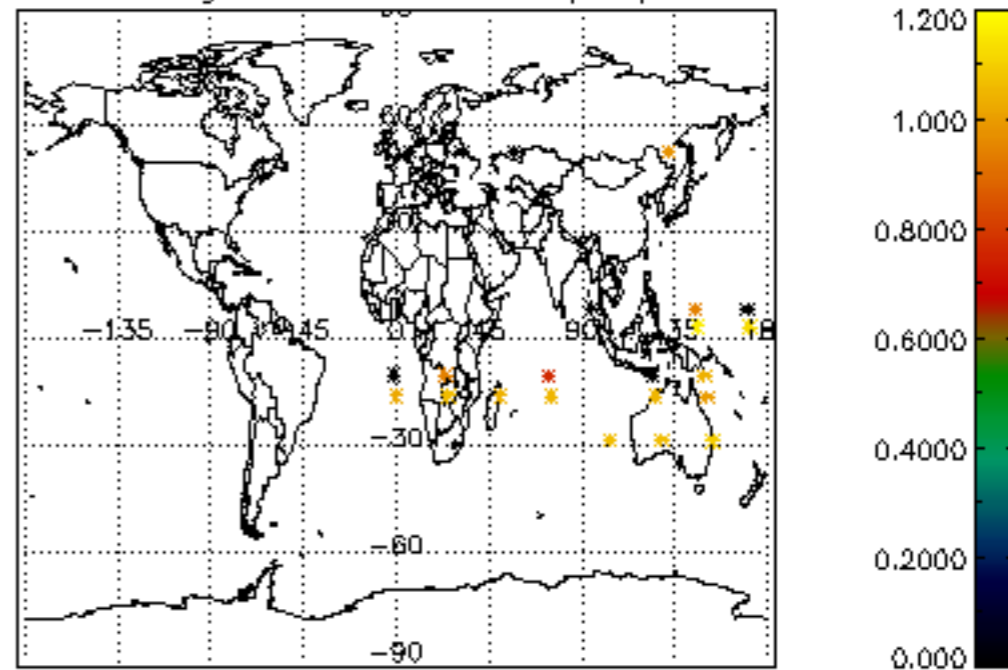




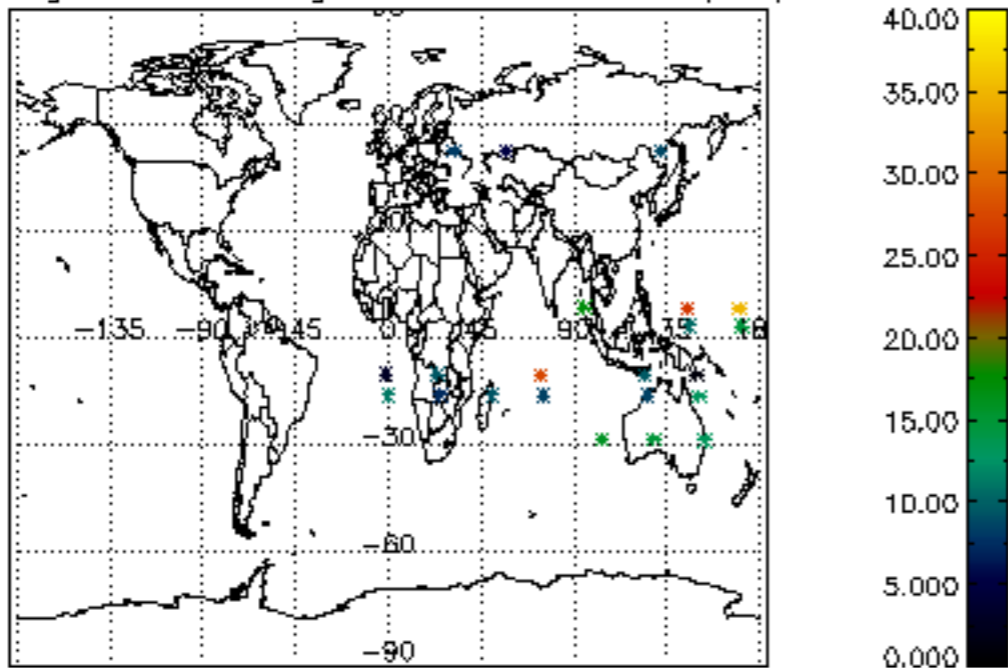
Percentage of cosmic ray hits per profile



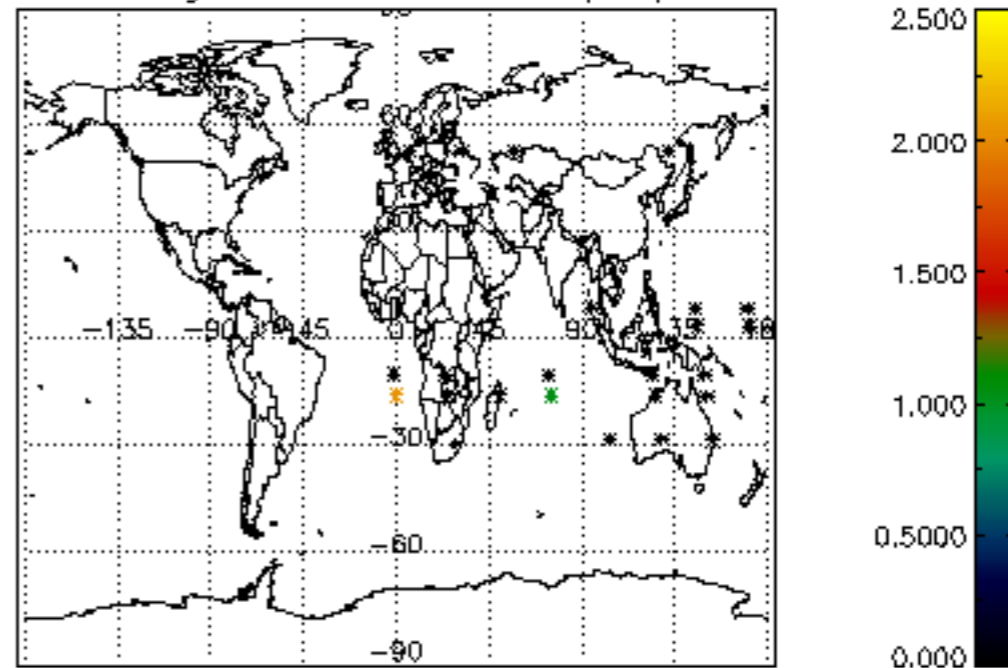
Percentage of datation errors per profile



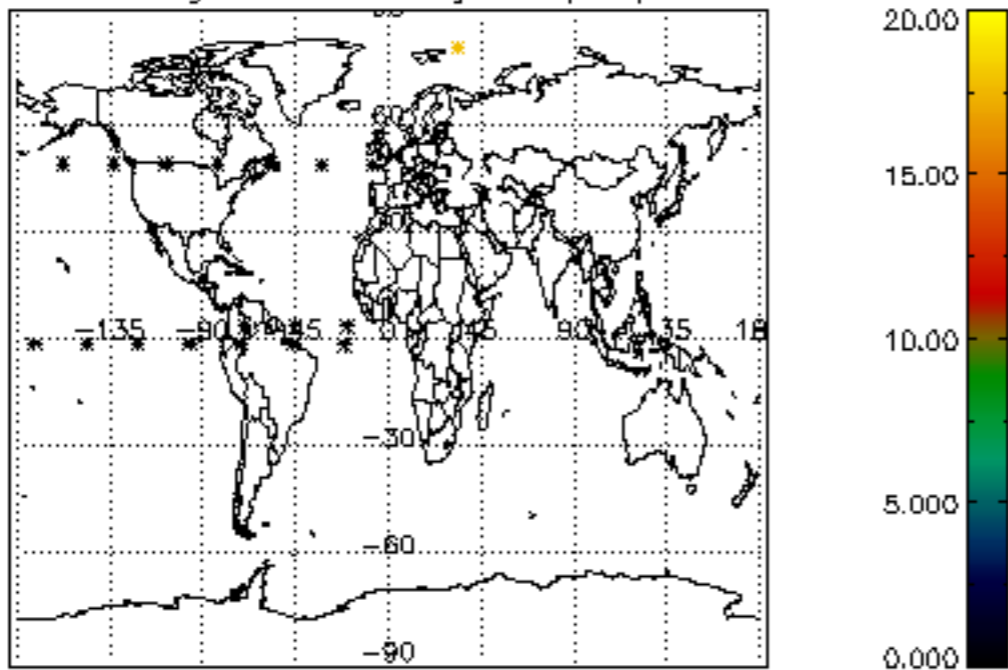
Percentage of star falling outside central band per profile



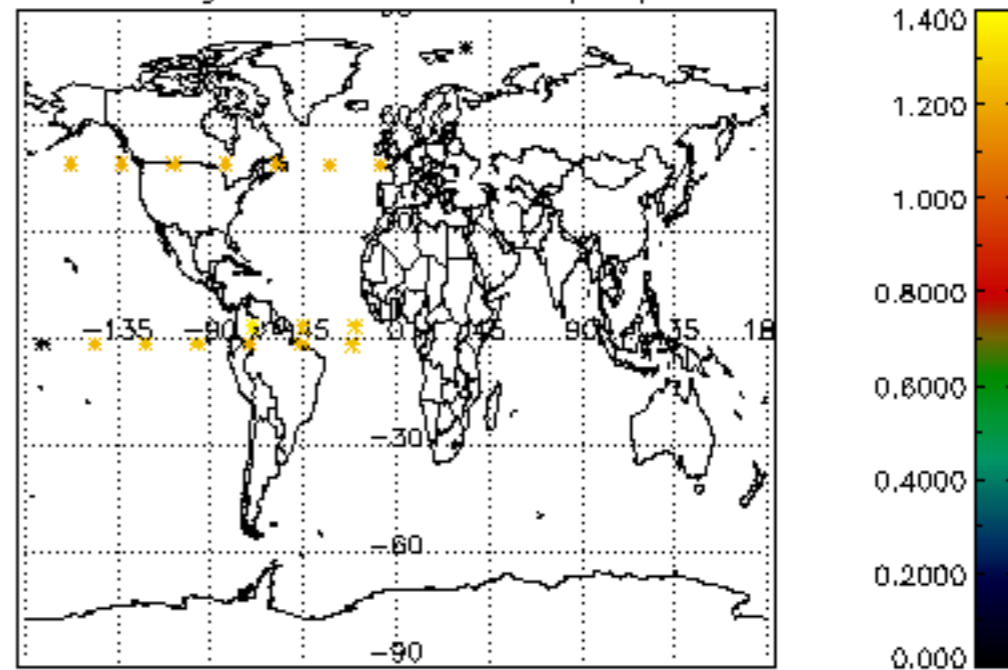
Percentage of saturation errors per profile



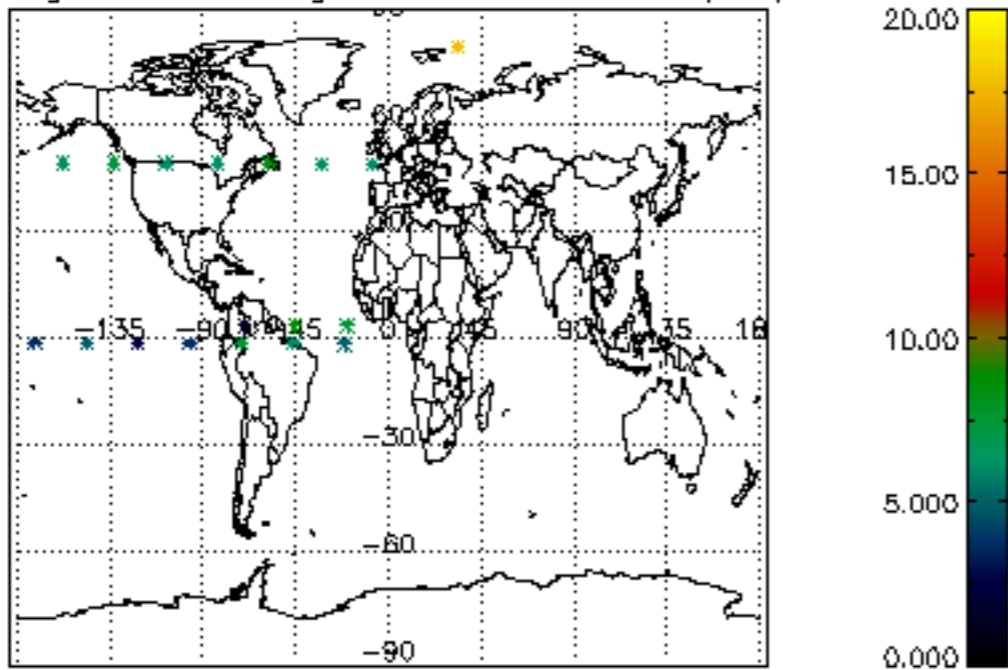
Percentage of cosmic ray hits per profile



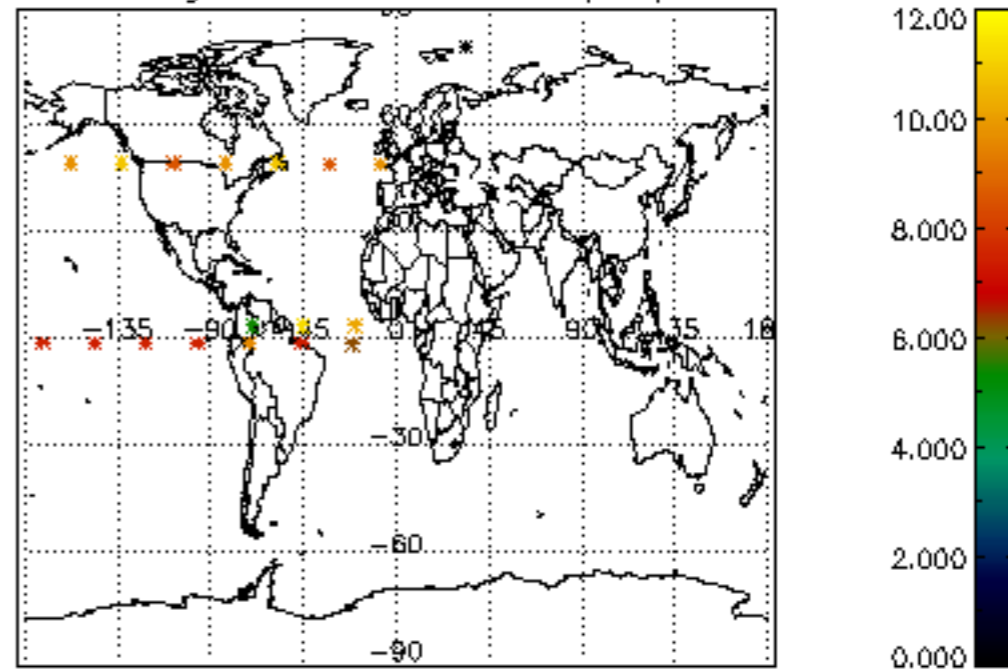
Percentage of datation errors per profile

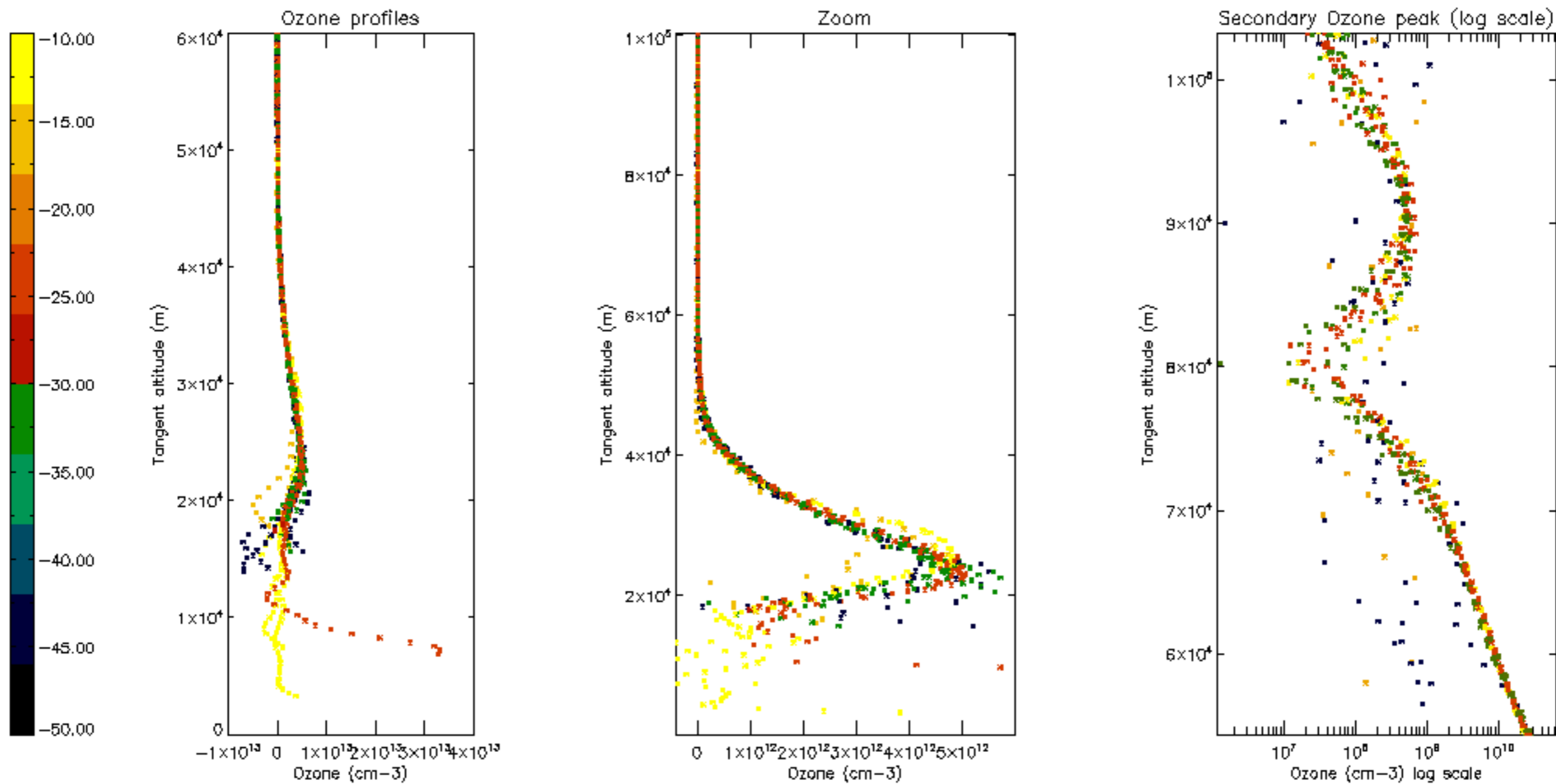


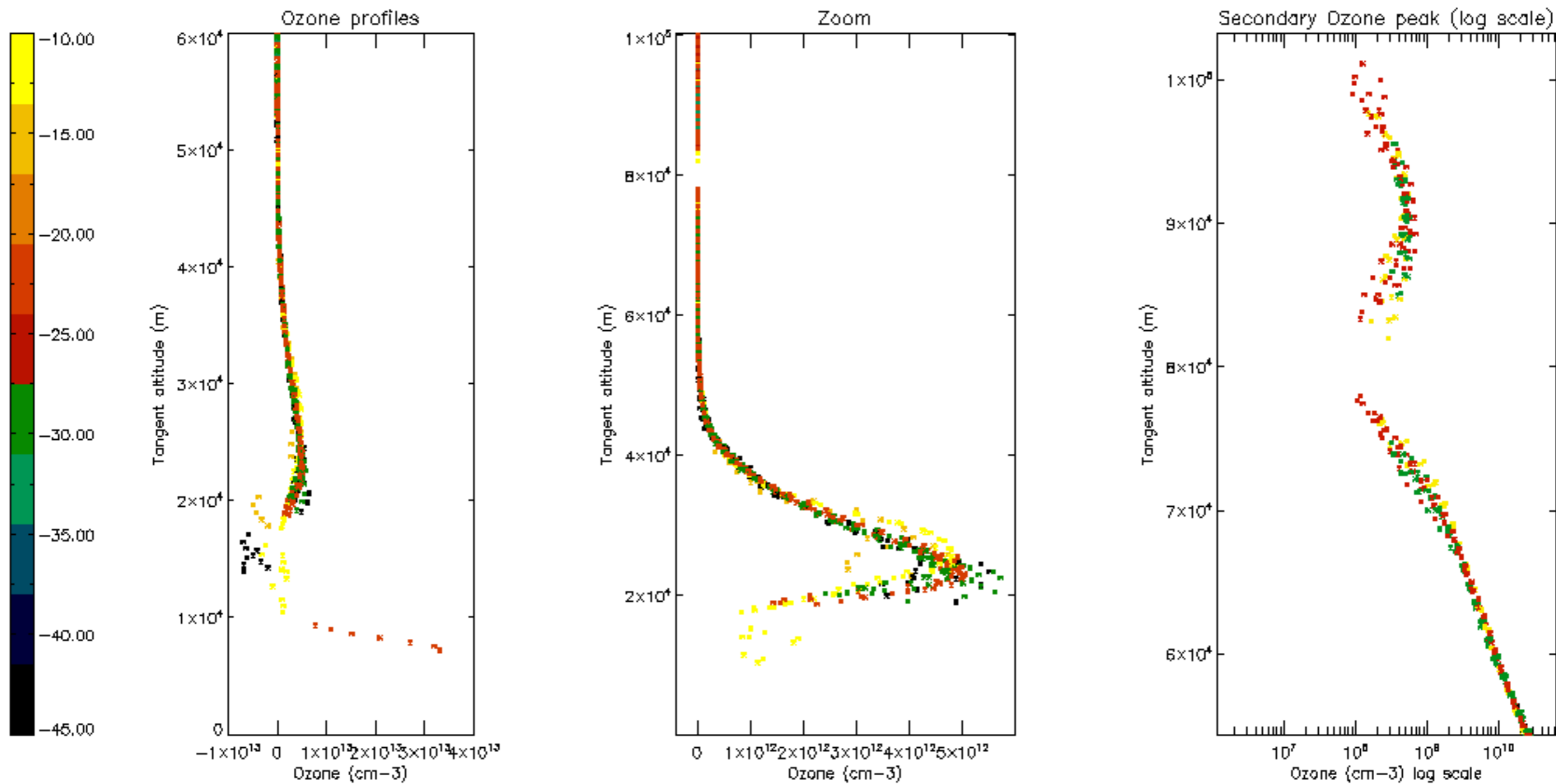
Percentage of star falling outside central band per profile

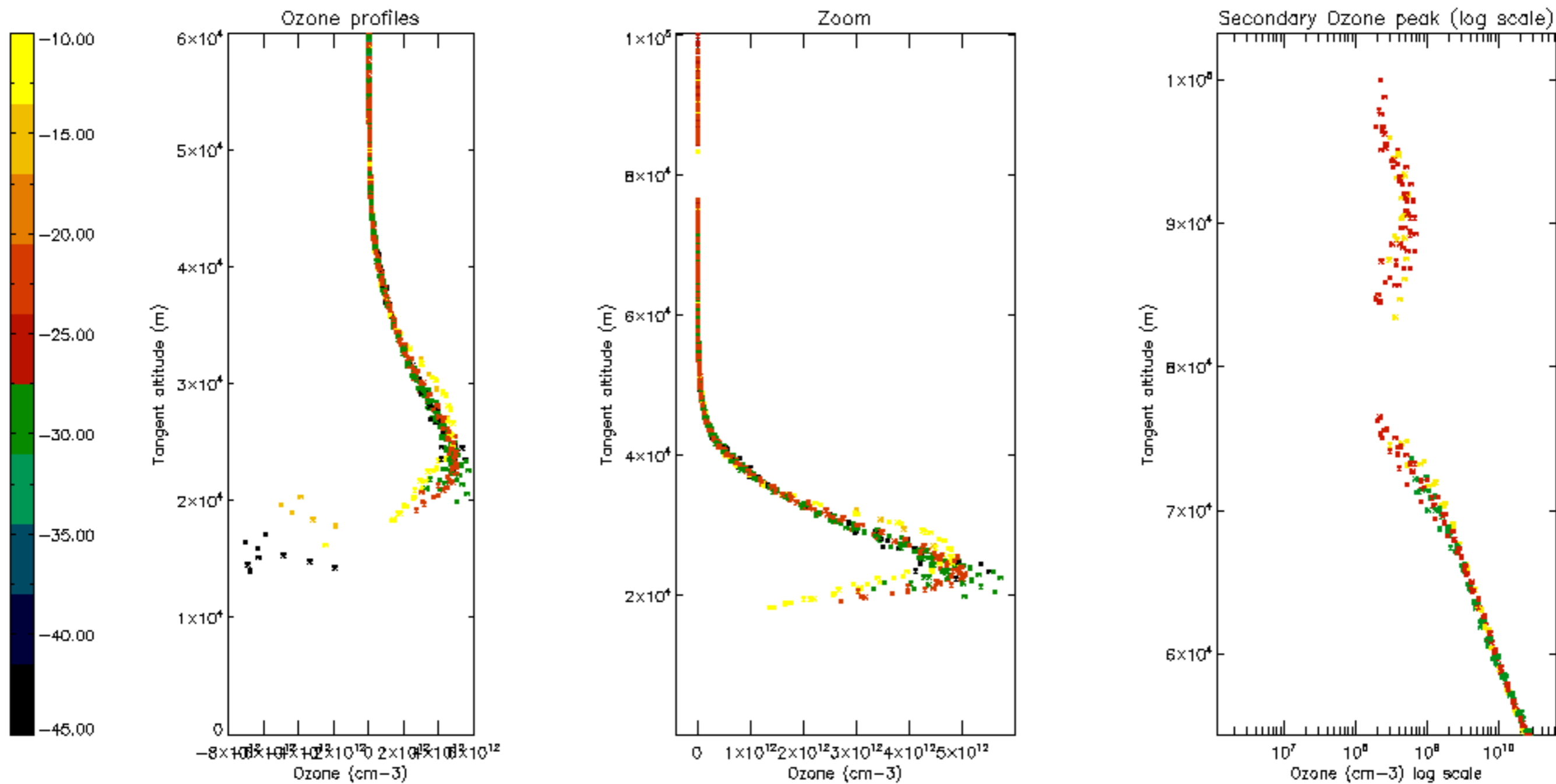


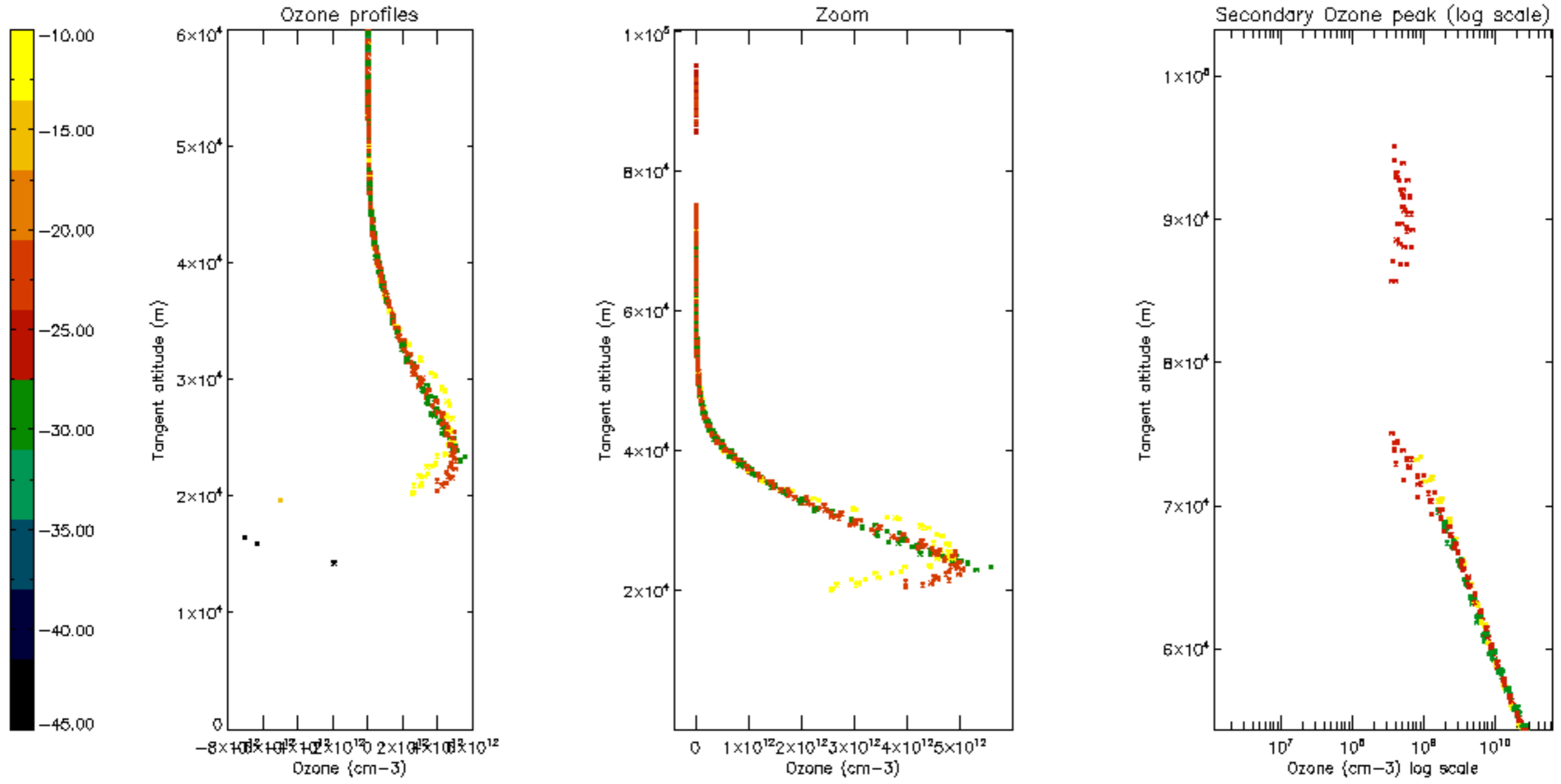
Percentage of saturation errors per profile

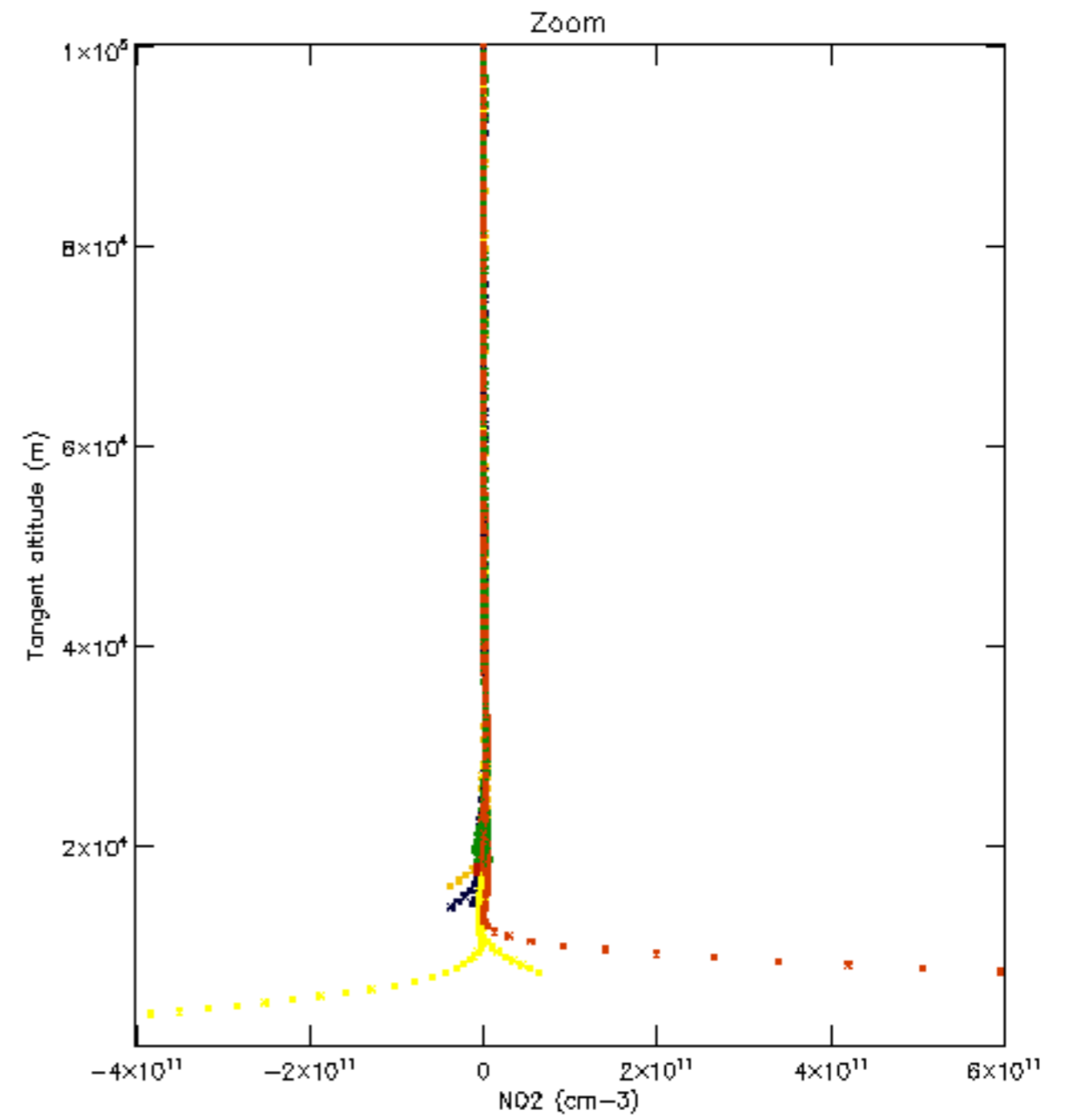
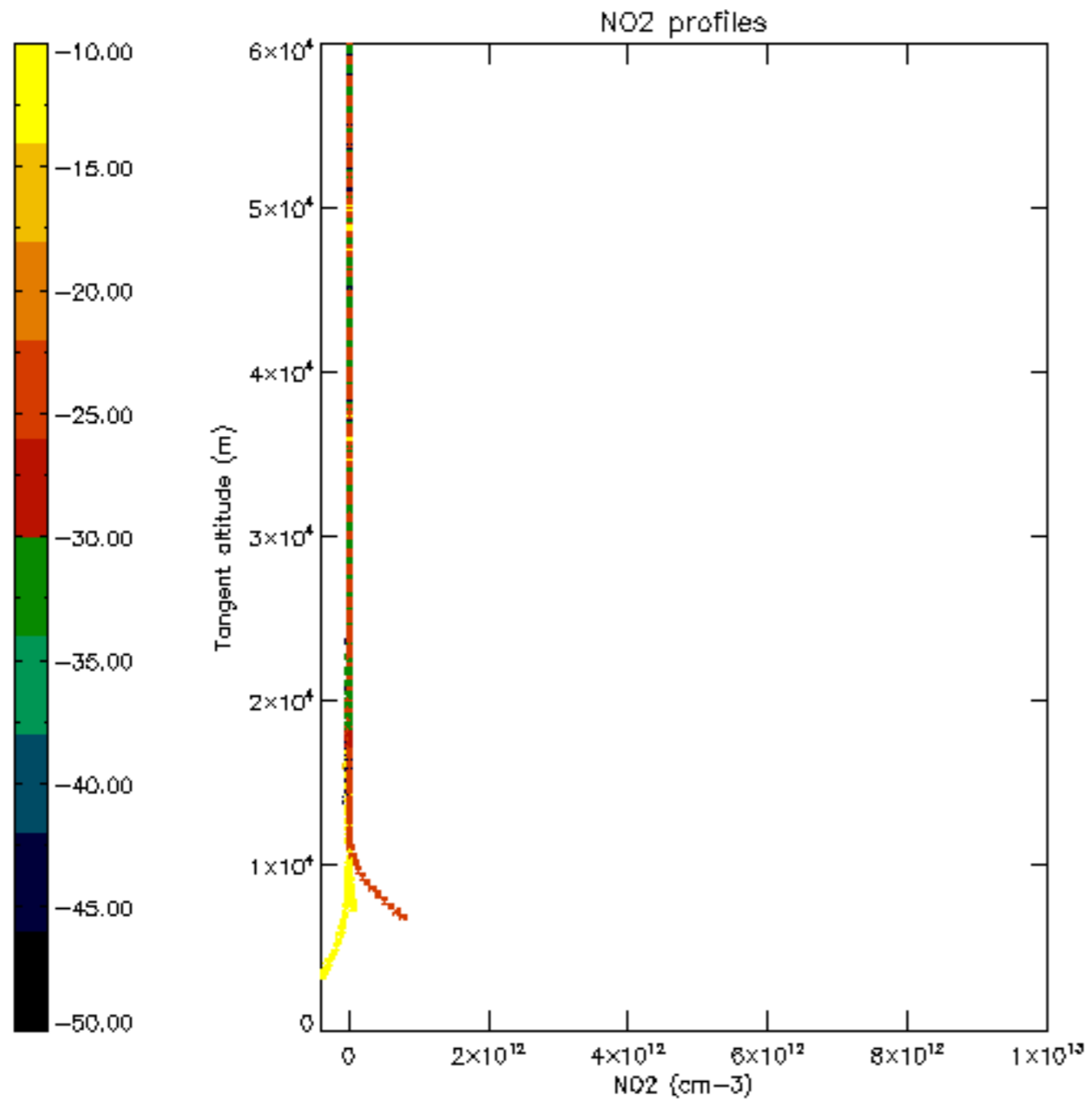


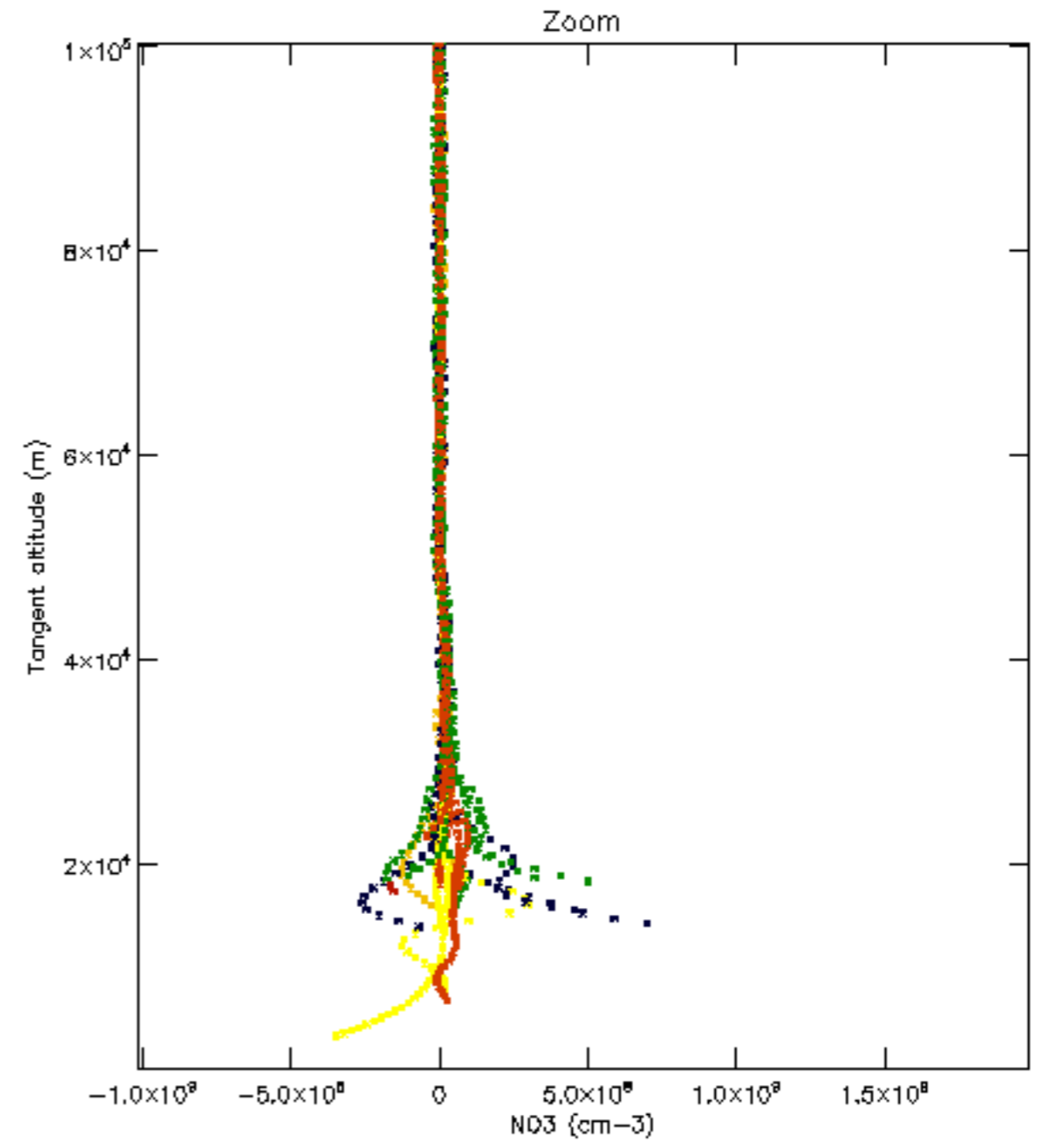
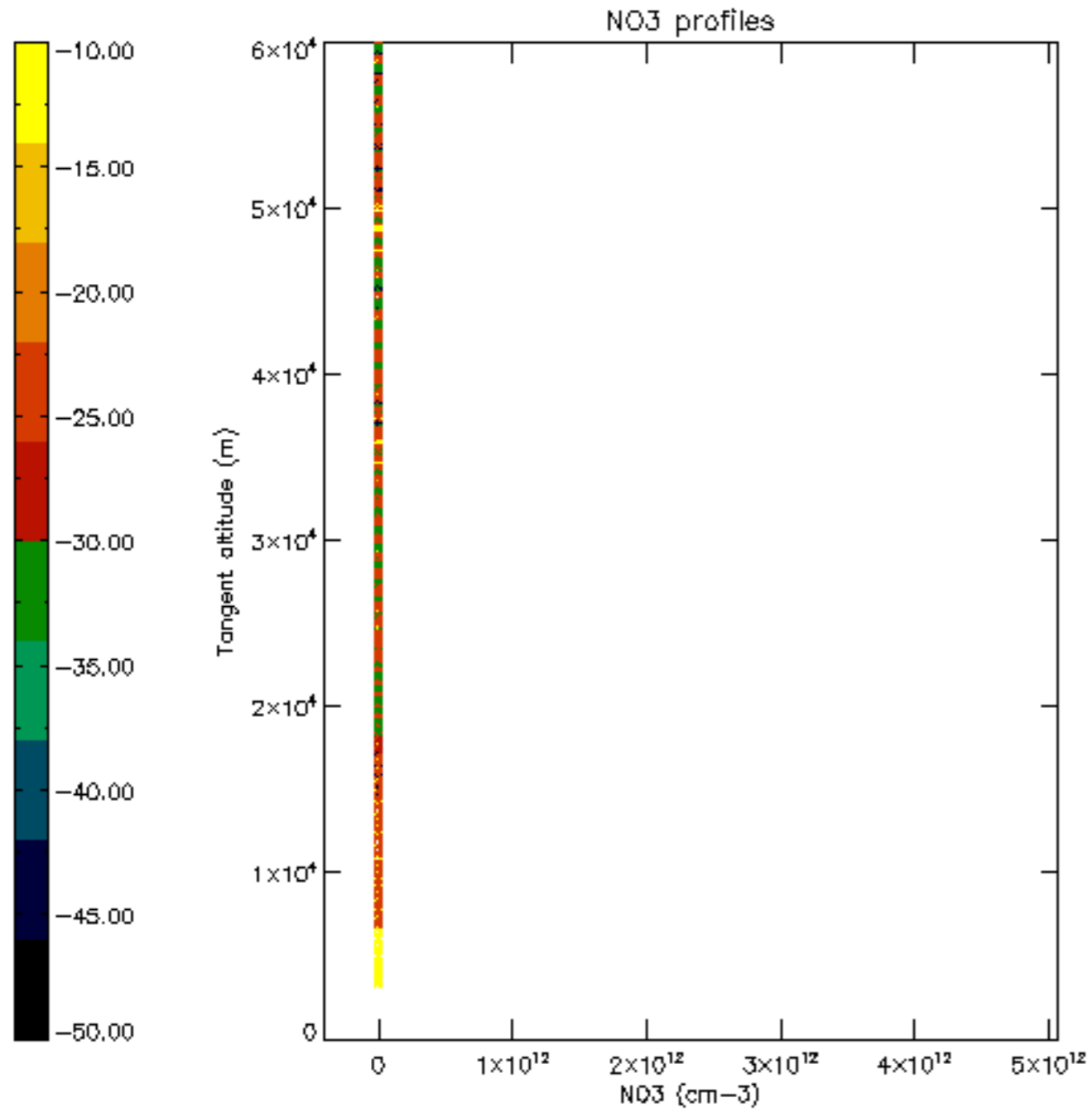


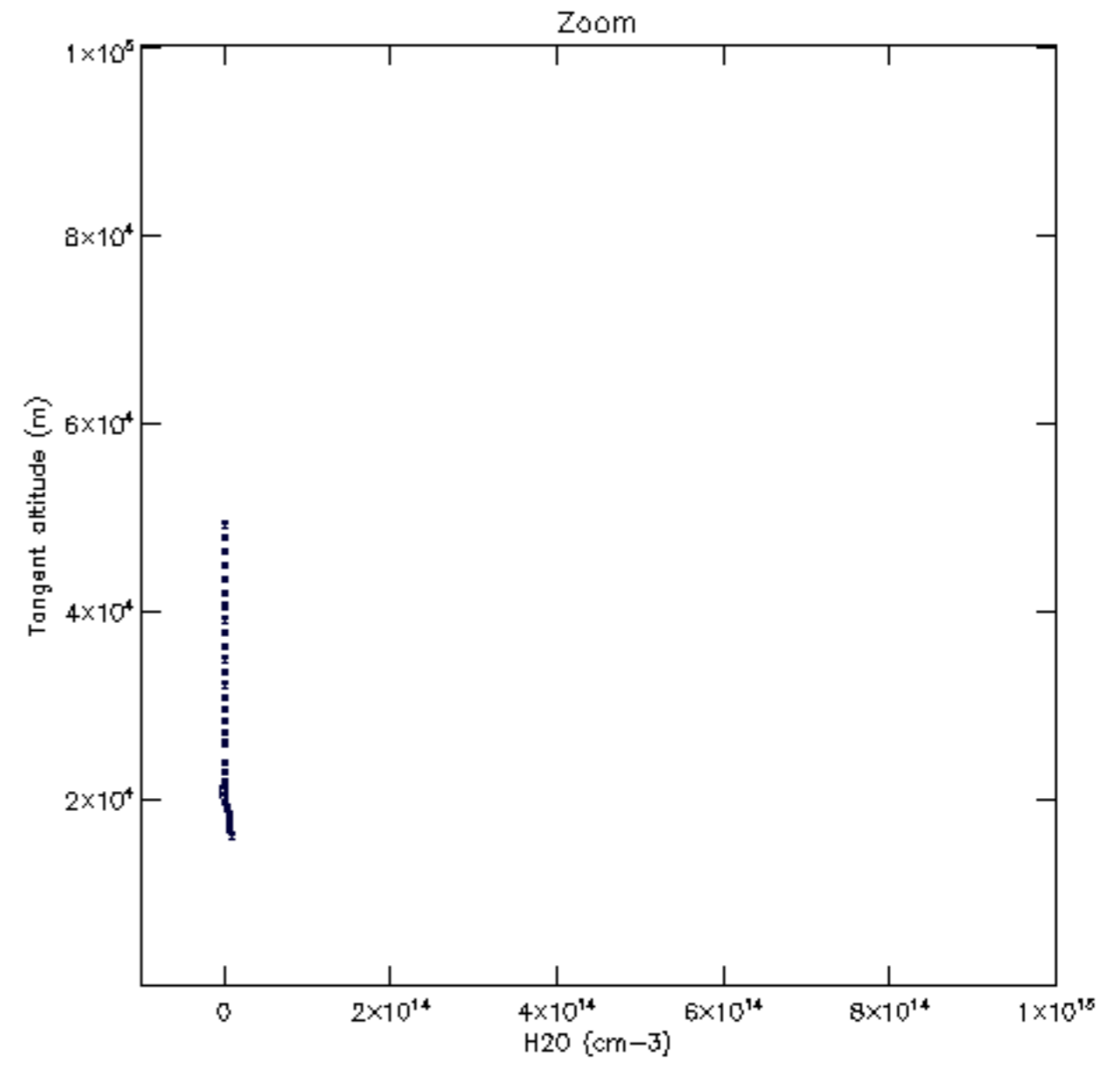
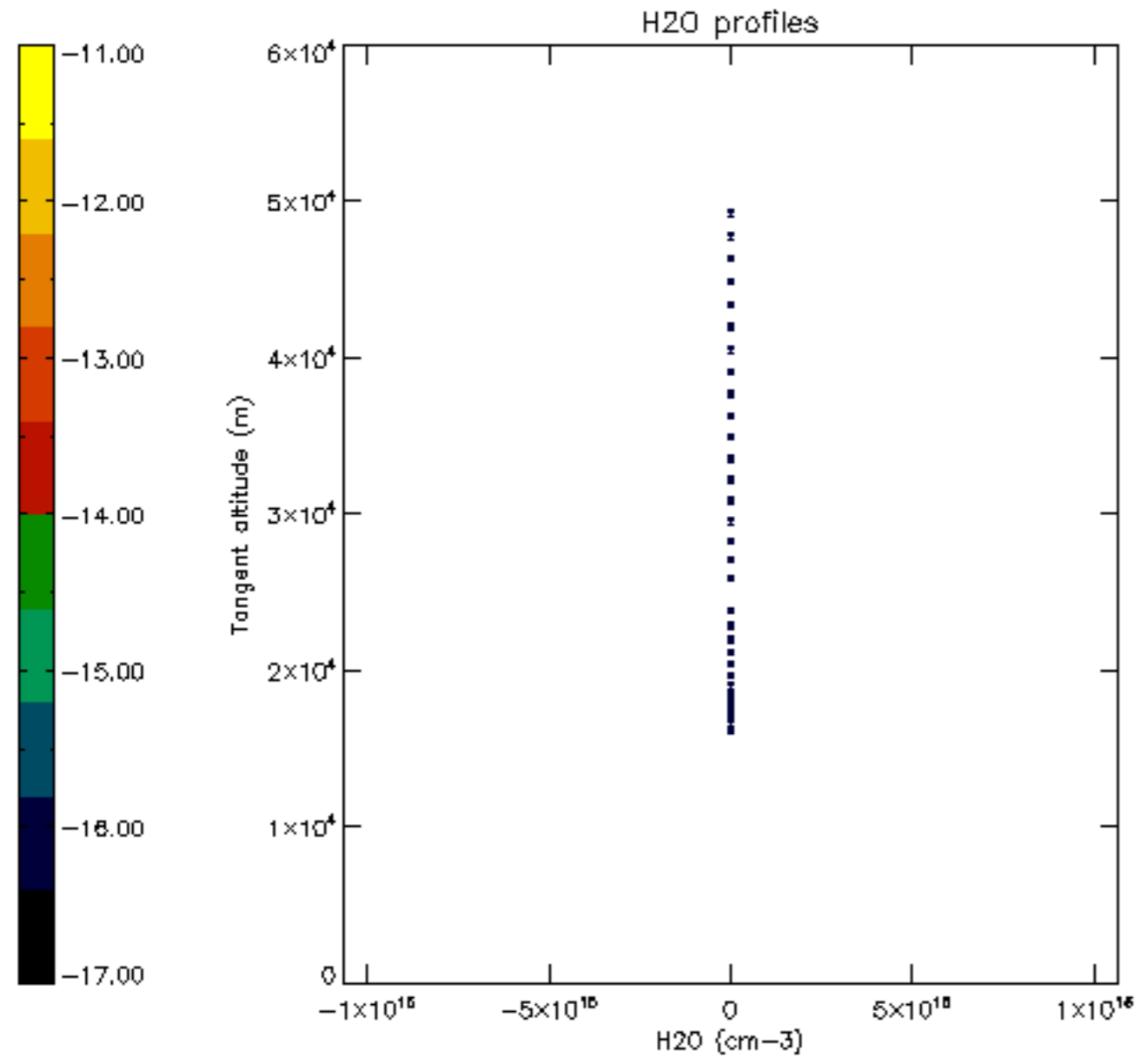


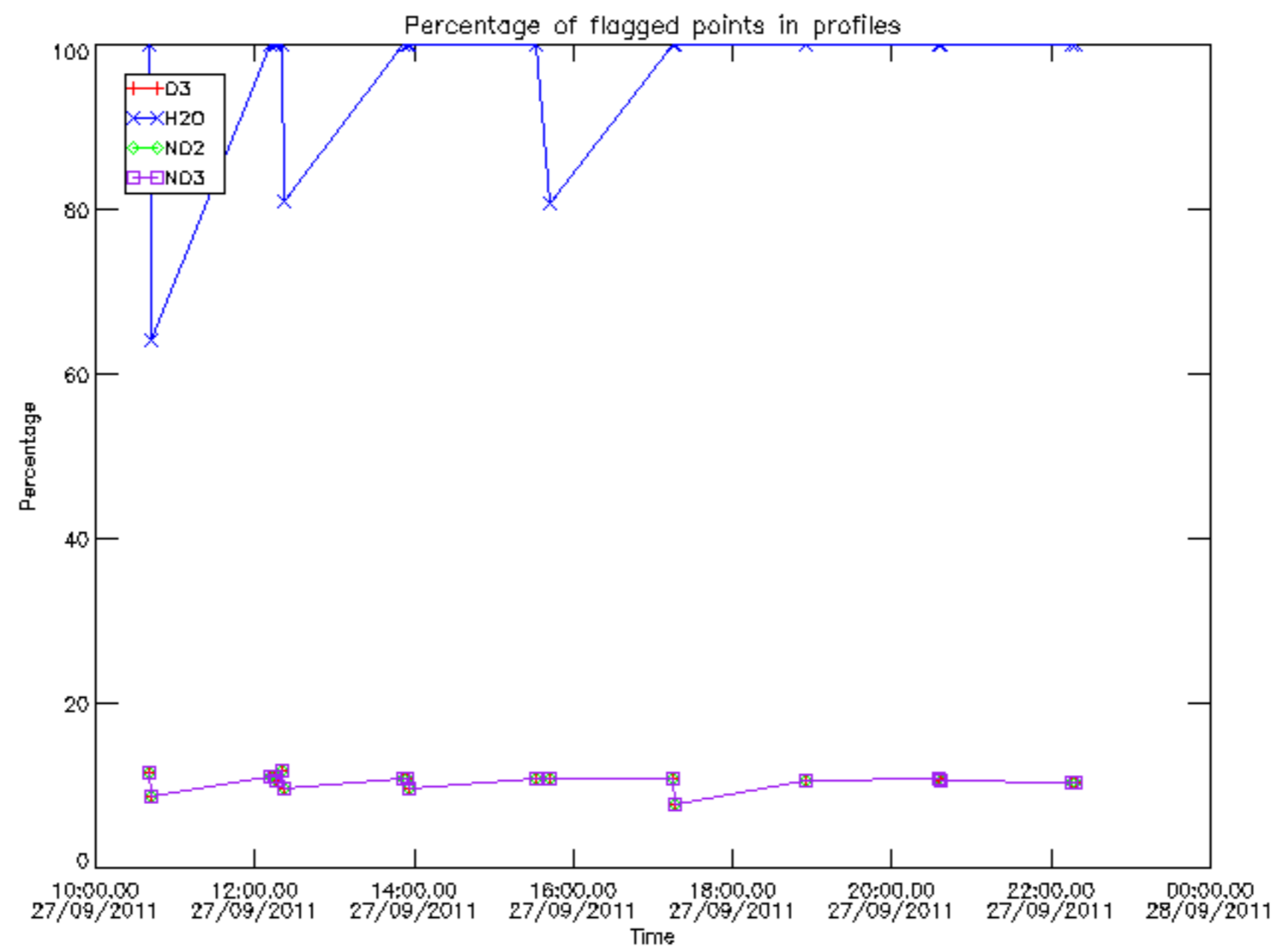




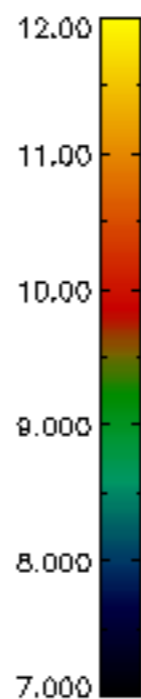
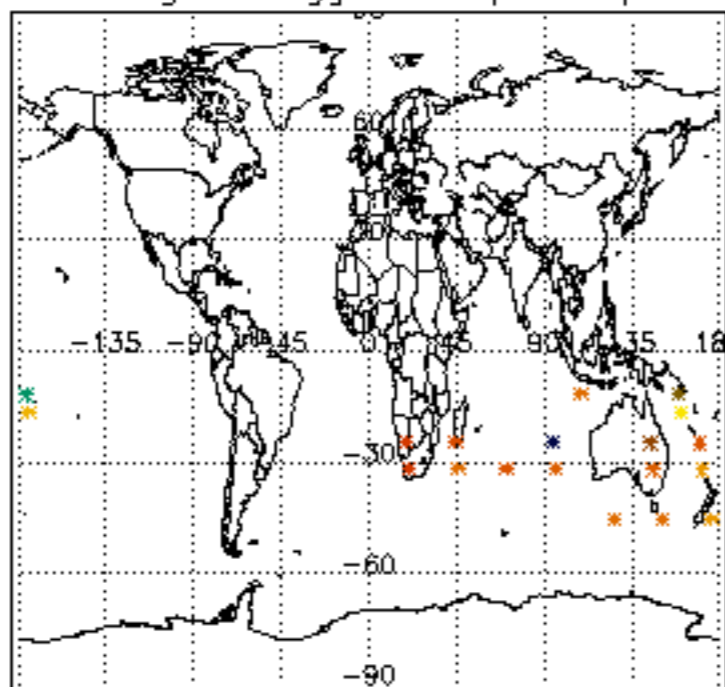




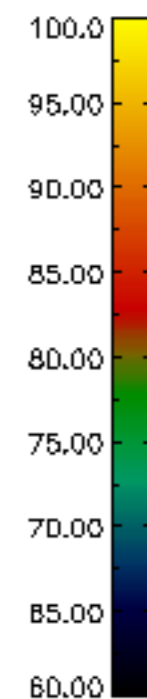
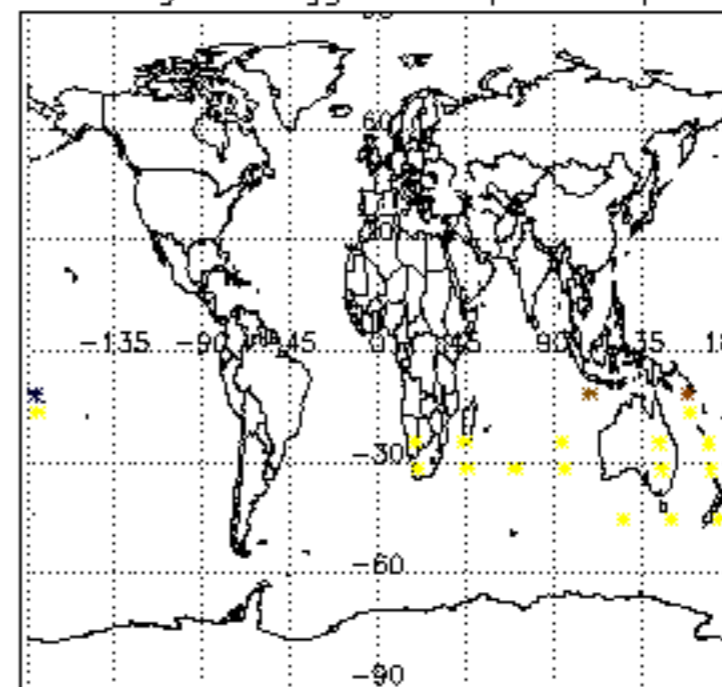




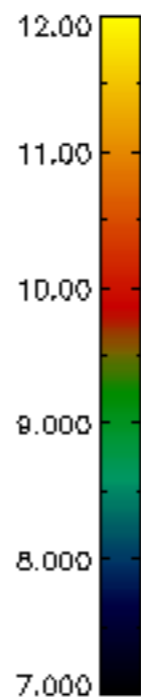
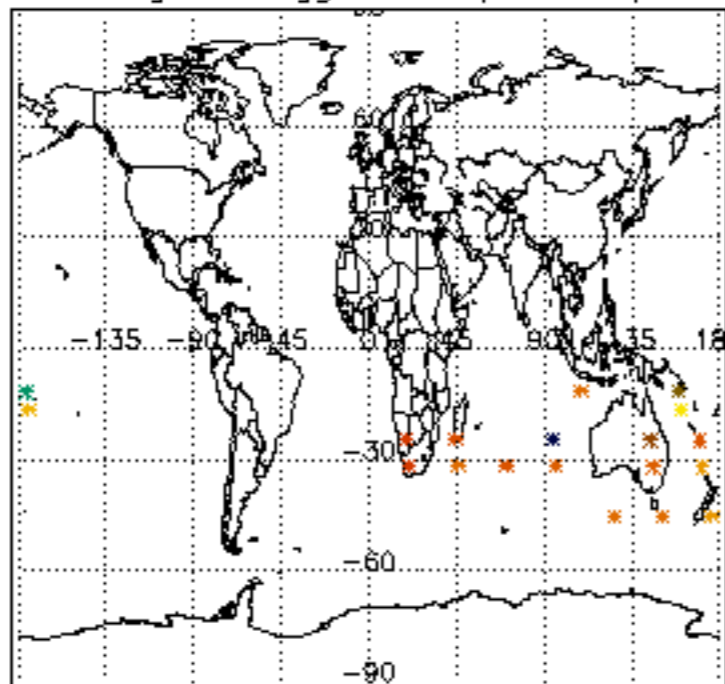
Percentage of flagged data per D3 profile



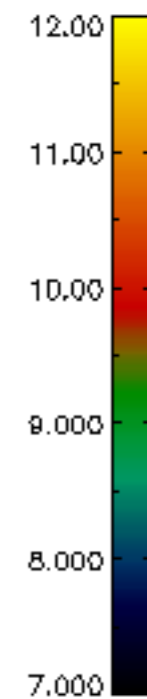
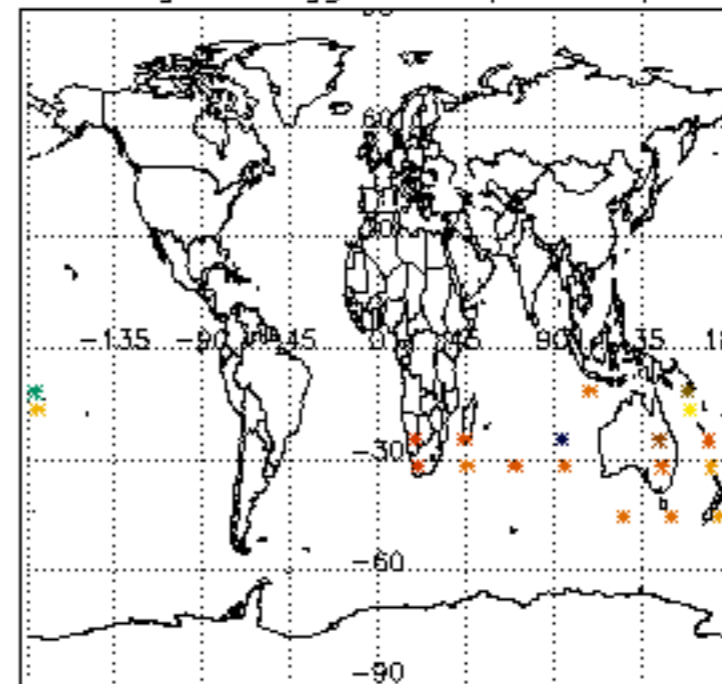
Percentage of flagged data per H2O profile

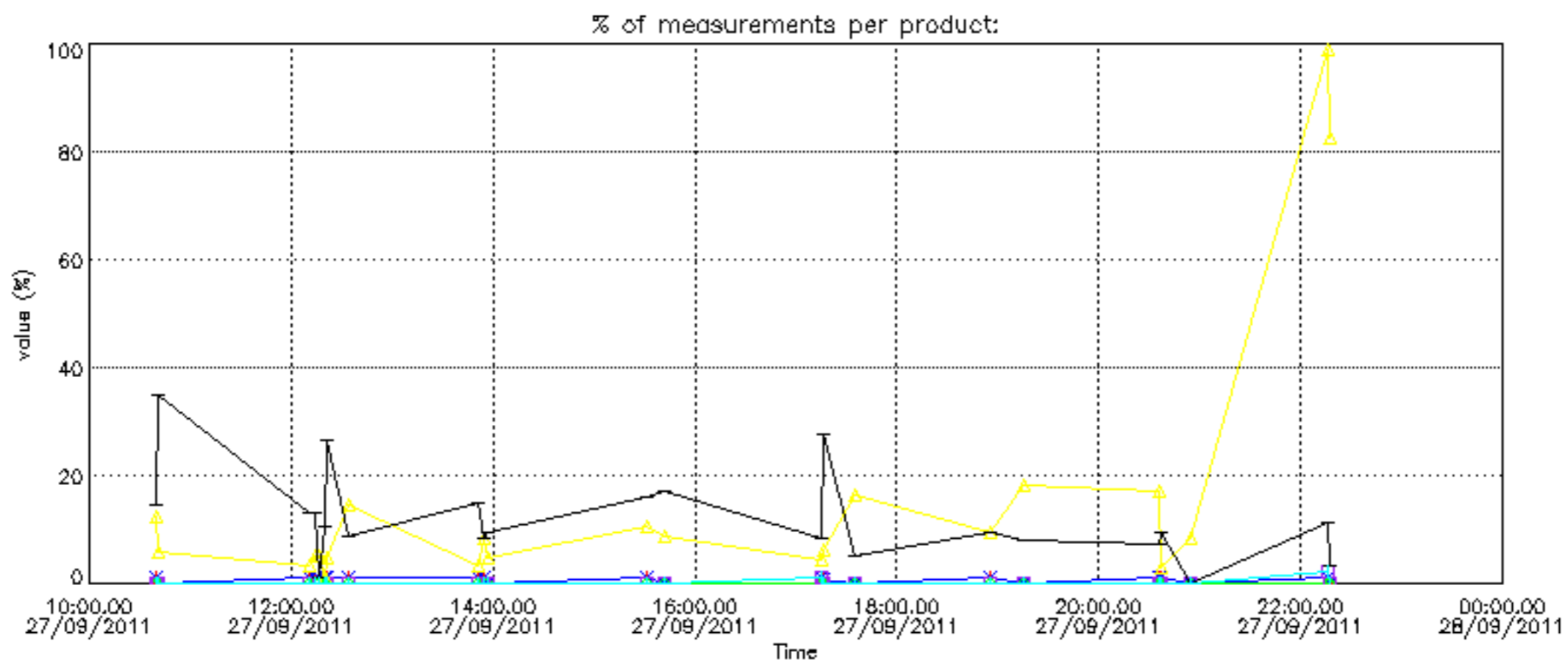


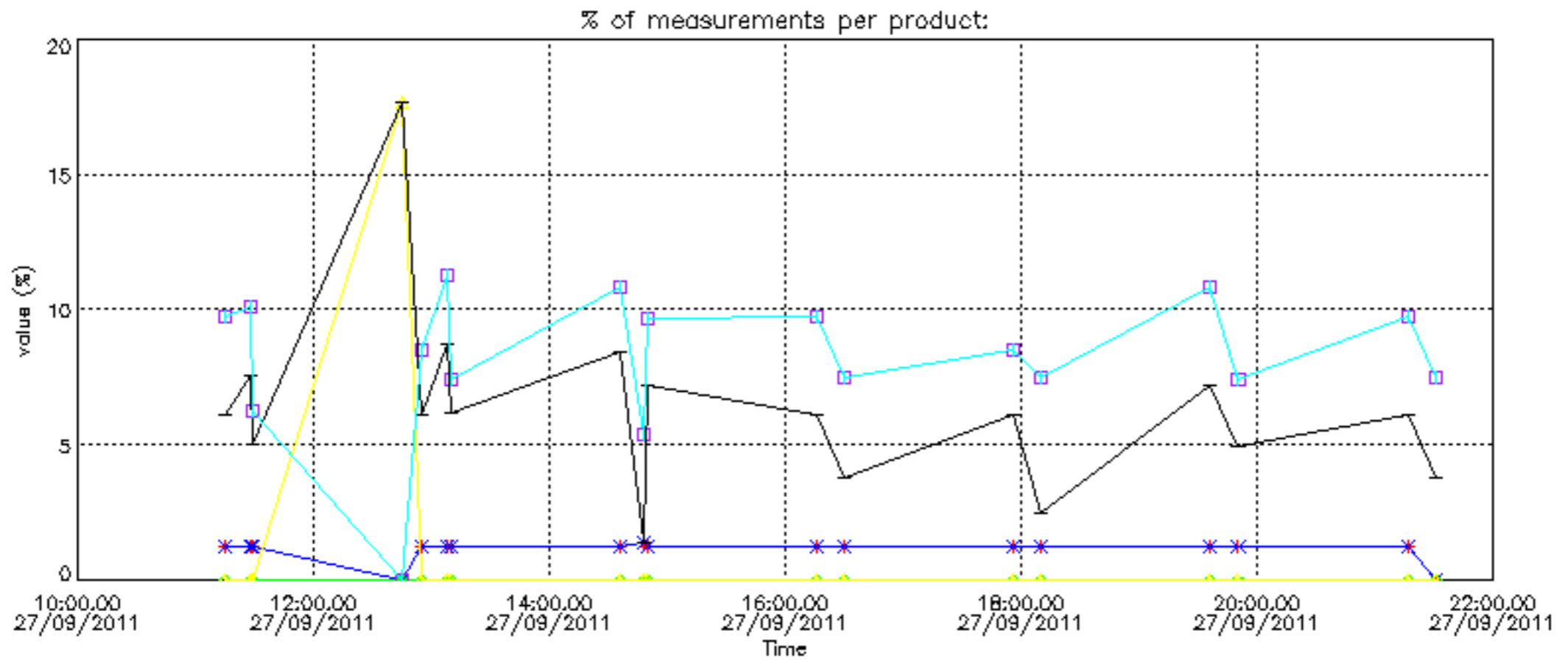
Percentage of flagged data per NO2 profile



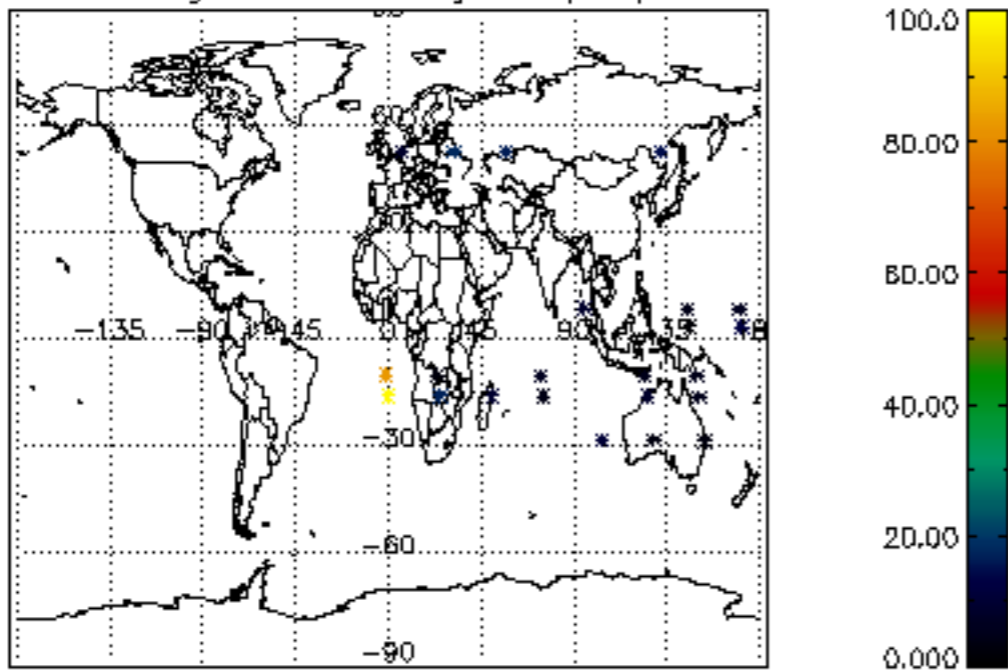
Percentage of flagged data per NO3 profile



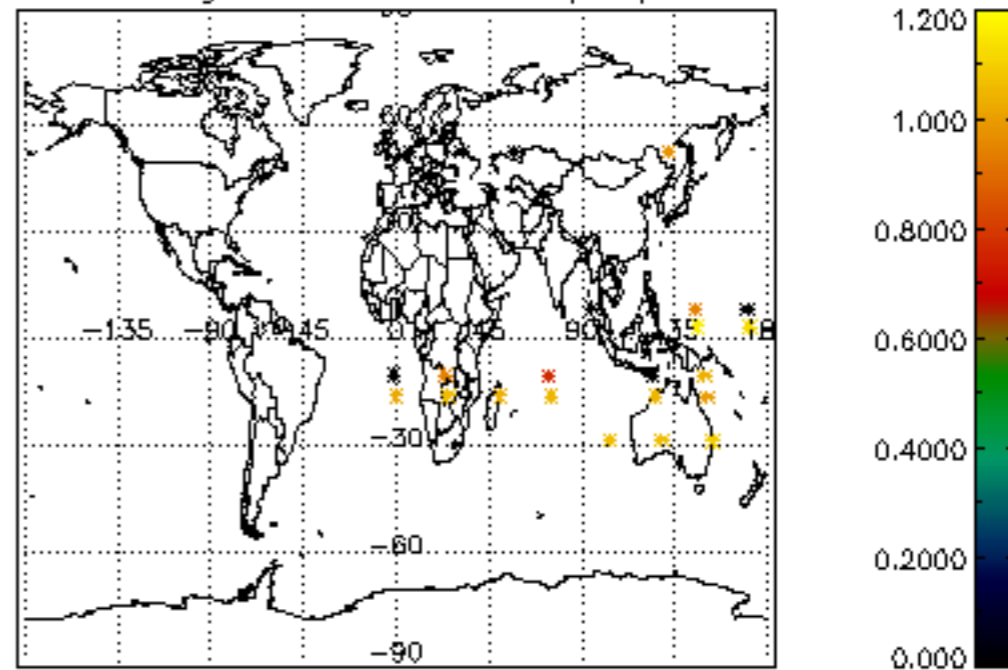




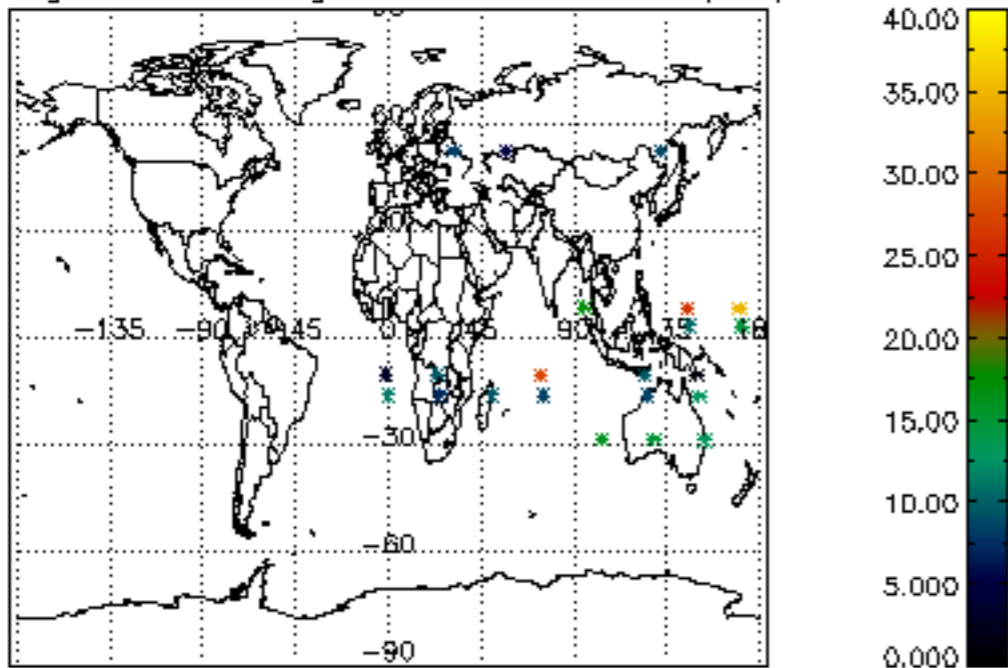
Percentage of cosmic ray hits per profile



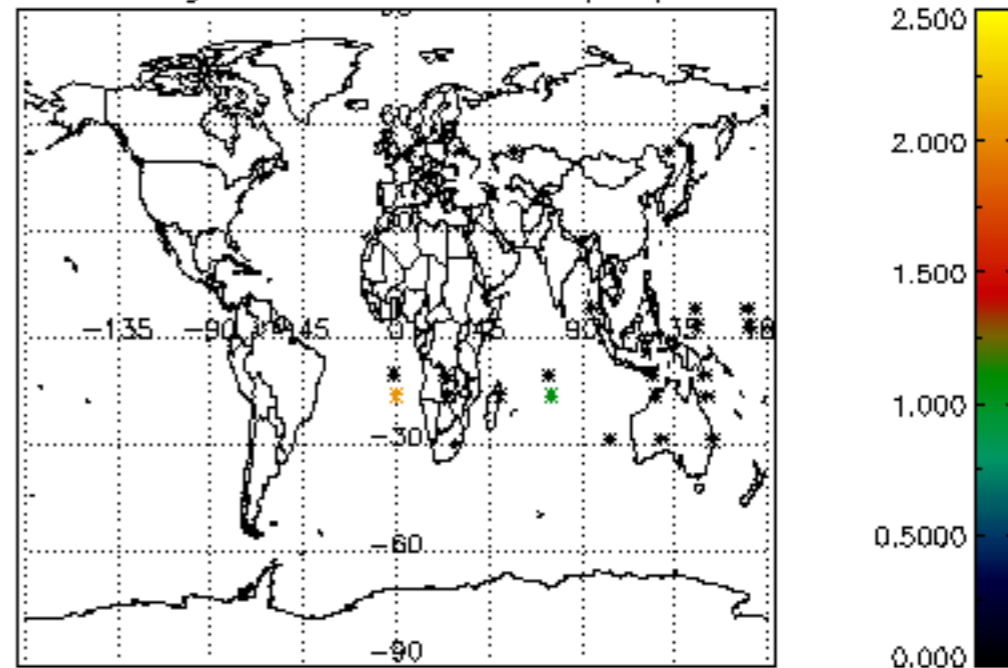
Percentage of datation errors per profile



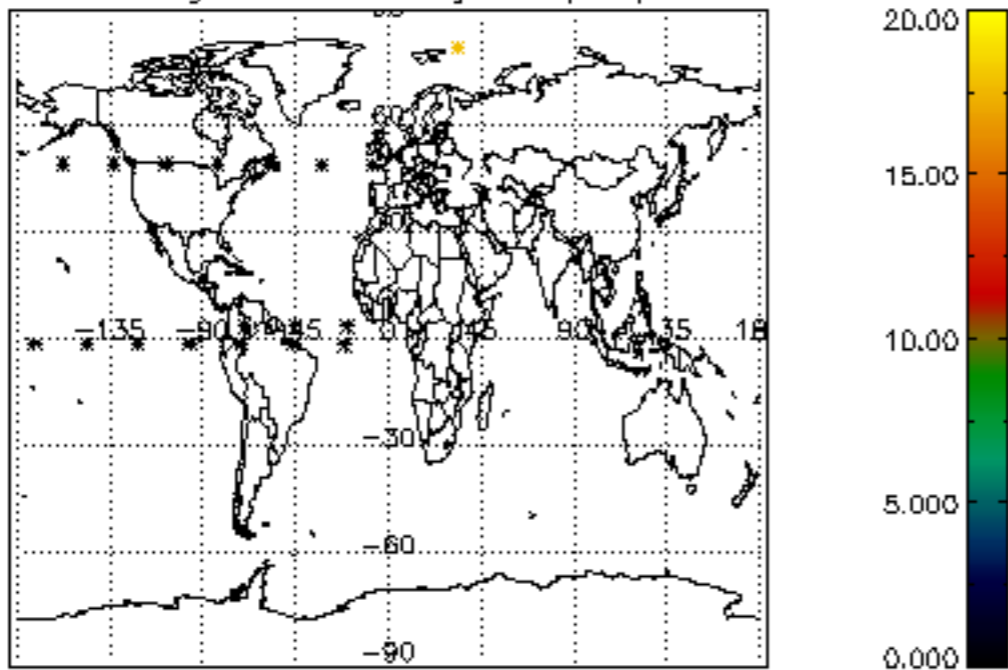
Percentage of star falling outside central band per profile



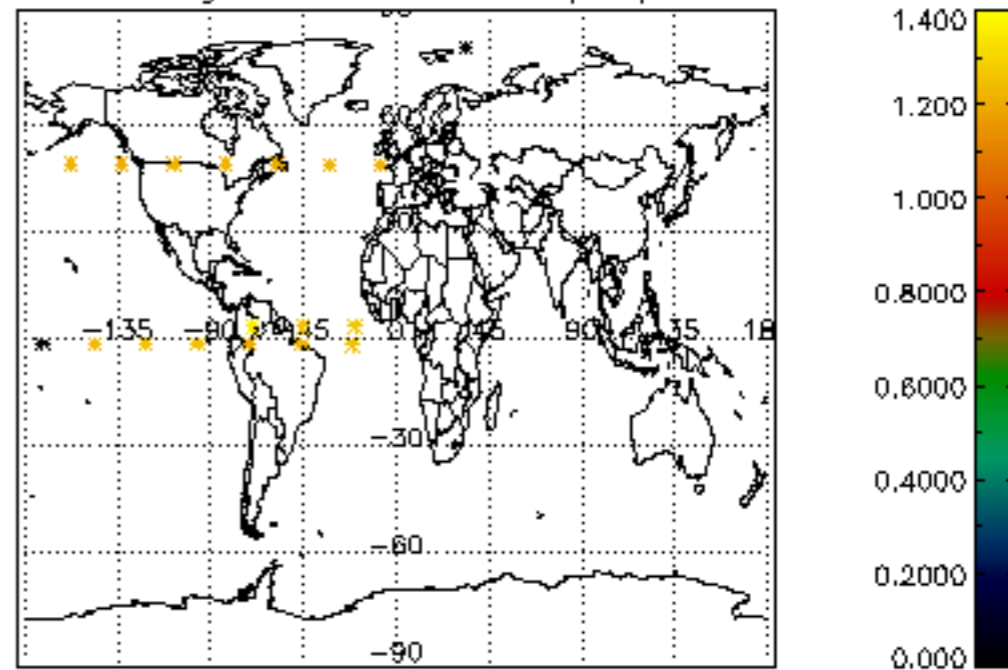
Percentage of saturation errors per profile



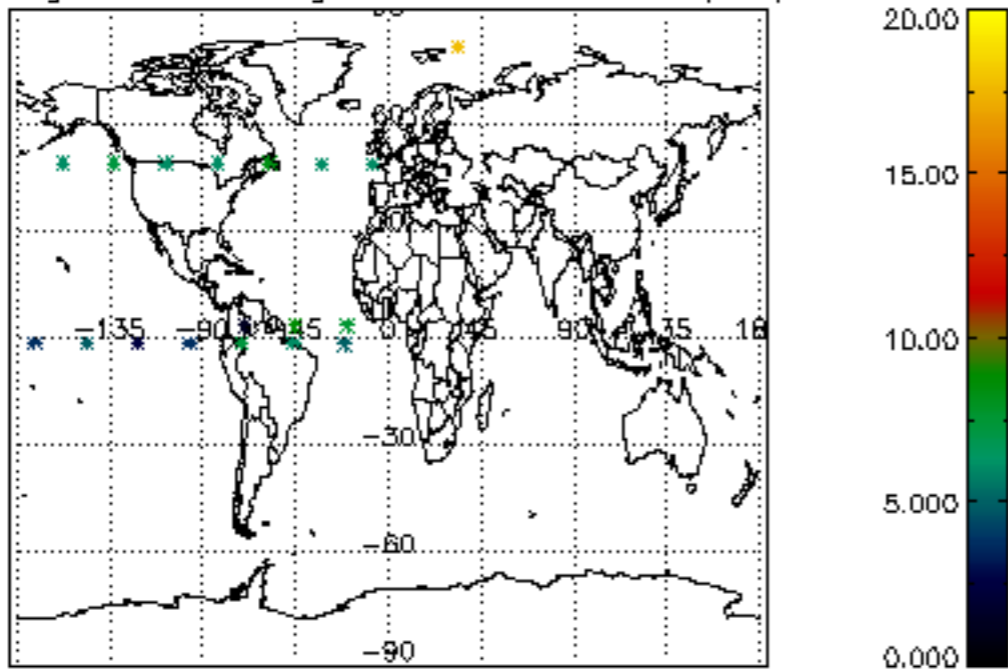
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

