

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 09:06:58
Data source version	GOMOS/6.01
Start time of products	13-01-2011 (13JAN2011 00:00:00)
Stop time of products	14-01-2011 (14JAN2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	343
Nb of prods with errors	1

2. Summary of processed GOM_NL__2P products.

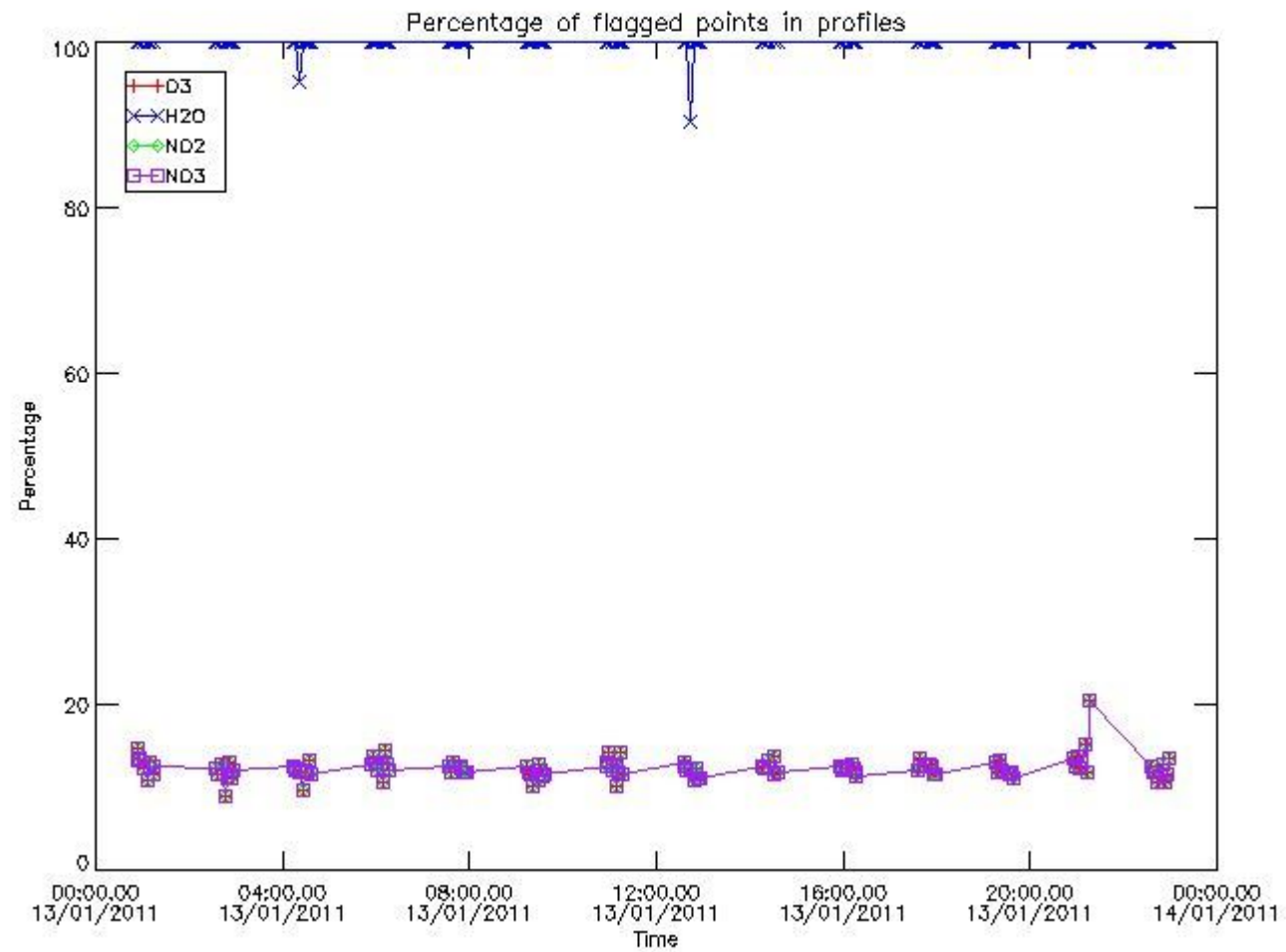
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110113_000048_00000353098_00246_46381_6850.N1	13-JAN-2011 00:00:48	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	46381	No
2	GOM_NL__2PRFIN20110113_001719_00000383098_00246_46381_6851.N1	13-JAN-2011 00:17:19	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	46381	No
3	GOM_NL__2PRFIN20110113_002133_00000543098_00246_46381_6852.N1	13-JAN-2011 00:21:33	Bright	54.000	119	14Eta Dra	2.7270	4700.0	108	46381	No
4	GOM_NL__2PRFIN20110113_003017_00000373098_00246_46381_6853.N1	13-JAN-2011 00:30:17	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	46381	No
5	GOM_NL__2PRFIN20110113_003227_00000623098_00246_46381_6854.N1	13-JAN-2011 00:32:27	Bright	62.000	67	5Alp CrB	2.2210	11000.	124	46381	No
6	GOM_NL__2PRFIN20110113_003841_00000603098_00246_46381_6855.N1	13-JAN-2011 00:38:41	Bright	60.000	102	24Alp Ser	2.6000	4250.0	120	46381	No
7	GOM_NL__2PRFIN20110113_004050_00000553098_00246_46381_6856.N1	13-JAN-2011 00:40:50	Bright	55.000	120	1Del Oph	2.7340	3200.0	110	46381	No
8	GOM_NL__2PRFIN20110113_004419_00000483098_00246_46381_6857.N1	13-JAN-2011 00:44:19	Twilight	47.500	104	27Bet Lib	2.6140	13100.	95	46381	No
9	GOM_NL__2PRFIN20110113_004622_00000473098_00246_46381_6858.N1	13-JAN-2011 00:46:22	Twilight	46.500	80	7Del Sco	2.3160	30000.	93	46381	No
10	GOM_NL__2PRFIN20110113_005329_00000423098_00246_46381_6859.N1	13-JAN-2011 00:53:29	Dark	42.000	109	Bet Lup	2.6770	26000.	84	46381	No
11	GOM_NL__2PRFIN20110113_005500_00000423098_00246_46381_6860.N1	13-JAN-2011 00:55:00	Dark	41.500	78	Alp Lup	2.3040	28000.	83	46381	No
12	GOM_NL__2PRFIN20110113_005656_00000423098_00247_46382_6846.N1	13-JAN-2011 00:56:56	Dark	41.500	95	Zet Cen	2.5450	26000.	83	46382	No
13	GOM_NL__2PRFIN20110113_010106_00000423098_00247_46382_6847.N1	13-JAN-2011 01:01:06	Dark	41.500	20	Bet Cru	1.2530	30000.	83	46382	No
14	GOM_NL__2PRFIN20110113_010700_00000483098_00247_46382_6848.N1	13-JAN-2011 01:07:00	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	46382	No
15	GOM_NL__2PRFIN20110113_010833_00000393098_00247_46382_6849.N1	13-JAN-2011 01:08:33	Dark	39.000	71	lot Car	2.2460	7700.0	78	46382	No
16	GOM_NL__2PRFIN20110113_011025_00000453098_00247_46382_6850.N1	13-JAN-2011 01:10:25	Dark	44.500	46	Del Vel	1.9540	10600.	89	46382	No
17	GOM_NL__2PRFIN20110113_011309_00000453098_00247_46382_6851.N1	13-JAN-2011 01:13:09	Dark	44.500	34	Gam2Vel	1.7930	23000.	89	46382	No
18	GOM_NL__2PRFIN20110113_011518_00000453098_00247_46382_6852.N1	13-JAN-2011 01:15:18	Dark	44.500	70	Zet Pup	2.2460	39000.	89	46382	No
19	GOM_NL__2PRFIN20110113_011701_00000523098_00247_46382_6853.N1	13-JAN-2011 01:17:01	Straylight	51.500	117	Pi Pup	2.7060	3800.0	103	46382	No
20	GOM_NL__2PRFIN20110113_011936_00000463098_00247_46382_6854.N1	13-JAN-2011 01:19:36	Straylight	45.500	23	21Eps CMa	1.5020	26000.	91	46382	No
21	GOM_NL__2PRFIN20110113_012102_00000433098_00247_46382_6855.N1	13-JAN-2011 01:21:02	Straylight	43.000	179	24Omi2CMa	3.0320	24000.	86	46382	No
22	GOM_NL__2PRFIN20110113_012316_00000533098_00247_46382_6856.N1	13-JAN-2011 01:23:16	Straylight	52.500	1	9Alp CMa	-1.4400	11000.	105	46382	No
23	GOM_NL__2PRFIN20110113_013011_00000633098_00247_46382_6857.N1	13-JAN-2011 01:30:11	Twilight	63.000	8	10Alp CMi	0.40000	6500.0	126	46382	No
24	GOM_NL__2PRFIN20110113_013302_00000553098_00247_46382_6858.N1	13-JAN-2011 01:33:02	Bright	55.000	44	24Gam Gem	1.9280	11000.	110	46382	No
25	GOM_NL__2PRFIN20110113_013444_00000453098_00247_46382_6859.N1	13-JAN-2011 01:34:44	Bright	45.000	151	13Mu Gem	2.8900	3000.0	90	46382	No
26	GOM_NL__2PRFIN20110113_013850_00000373098_00247_46382_6860.N1	13-JAN-2011 01:38:50	Bright	36.500	107	37The Aur	2.6490	11000.	73	46382	No
27	GOM_NL__2PRFIN20110113_014102_00000373098_00247_46382_6861.N1	13-JAN-2011 01:41:02	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	46382	No
28	GOM_NL__2PRFIN20110113_015733_00000353098_00247_46382_6862.N1	13-JAN-2011 01:57:33	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	46382	No
29	GOM_NL__2PRFIN20110113_020147_00000393098_00247_46382_6863.N1	13-JAN-2011 02:01:47	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	46382	No
30	GOM_NL__2PRFIN20110113_021031_00000543098_00247_46382_6864.N1	13-JAN-2011 02:10:31	Bright	54.000	133	40Zet Her	2.8070	6000.0	108	46382	No
31	GOM_NL__2PRFIN20110113_021241_00000413098_00247_46382_6865.N1	13-JAN-2011 02:12:41	Bright	40.500	67	5Alp CrB	2.2210	11000.	81	46382	No
32	GOM_NL__2PRFIN20110113_021855_00000603098_00247_46382_6866.N1	13-JAN-2011 02:18:55	Bright	60.000	102	24Alp Ser	2.6000	4250.0	120	46382	No
33	GOM_NL__2PRFIN20110113_022104_00000553098_00247_46382_6867.N1	13-JAN-2011 02:21:04	Bright	55.000	120	1Del Oph	2.7340	3200.0	110	46382	No
34	GOM_NL__2PRFIN20110113_022433_00000453098_00247_46382_6868.N1	13-JAN-2011 02:24:33	Twilight	45.000	104	27Bet Lib	2.6140	13100.	90	46382	No
35	GOM_NL__2PRFIN20110113_022637_00000413098_00247_46382_6869.N1	13-JAN-2011 02:26:37	Twilight	41.000	80	7Del Sco	2.3160	30000.	82	46382	No
36	GOM_NL__2PRFIN20110113_023344_00000423098_00247_46382_6870.N1	13-JAN-2011 02:33:44	Dark	41.500	109	Bet Lup	2.6770	26000.	83	46382	No
37	GOM_NL__2PRFIN20110113_023711_00000443098_00248_46383_6863.N1	13-JAN-2011 02:37:11	Dark	44.000	95	Zet Cen	2.5450	26000.	88	46383	No
38	GOM_NL__2PRFIN20110113_024120_00000443098_00248_46383_6864.N1	13-JAN-2011 02:41:20	Dark	44.000	20	Bet Cru	1.2530	30000.	88	46383	No
39	GOM_NL__2PRFIN20110113_024715_00000573098_00248_46383_6865.N1	13-JAN-2011 02:47:15	Dark	57.000	113	Mu Vel	2.6920	5000.0	114	46383	No
40	GOM_NL__2PRFIN20110113_024848_00000463098_00248_46383_6866.N1	13-JAN-2011 02:48:48	Dark	45.500	71	lot Car	2.2460	7700.0	91	46383	No
41	GOM_NL__2PRFIN20110113_025040_00000403098_00248_46383_6867.N1	13-JAN-2011 02:50:40	Dark	39.500	46	Del Vel	1.9540	10600.	79	46383	No
42	GOM_NL__2PRFIN20110113_025324_00000463098_00248_46383_6868.N1	13-JAN-2011 02:53:24	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	46383	No

338	GOM_NL__2PRFIN20110113_232048_000000493098_00260_46395_7195.N1	13-JAN-2011 23:20:48	Bright	49.000	17	78Bet Gem	1.1610	4500.0	98	46395	No
339	GOM_NL__2PRFIN20110113_232403_000000363098_00260_46395_7196.N1	13-JAN-2011 23:24:03	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	46395	No
340	GOM_NL__2PRFIN20110113_234033_000000363098_00260_46395_7197.N1	13-JAN-2011 23:40:33	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	46395	No
341	GOM_NL__2PRFIN20110113_234449_000000383098_00260_46395_7198.N1	13-JAN-2011 23:44:49	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	46395	No
342	GOM_NL__2PRFIN20110113_235335_000000453098_00260_46395_7199.N1	13-JAN-2011 23:53:35	Bright	45.000	133	40Zet Her	2.8070	6000.0	90	46395	No
343	GOM_NL__2PRFIN20110113_235546_000000633098_00260_46395_7200.N1	13-JAN-2011 23:55:46	Bright	63.000	67	5Alp CrB	2.2210	11000.	126	46395	No

3. Quality information per product

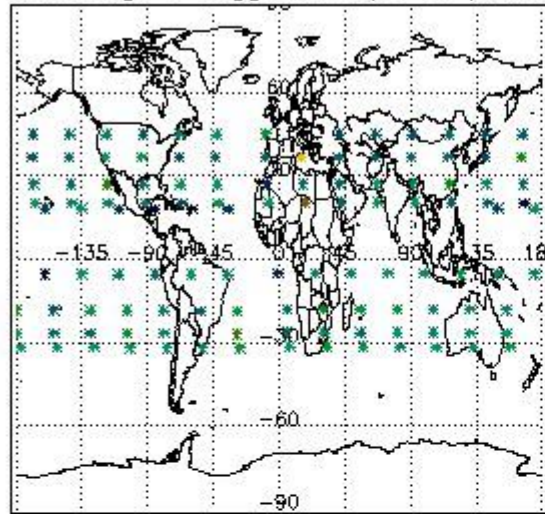
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

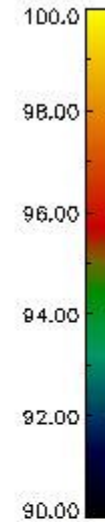
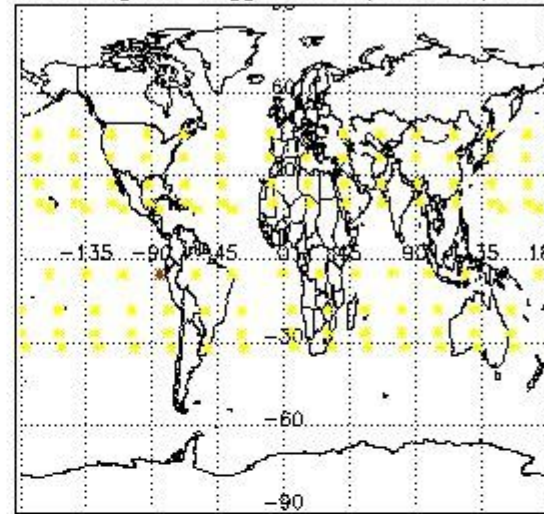


3.2 Plot quality information per product (world map)

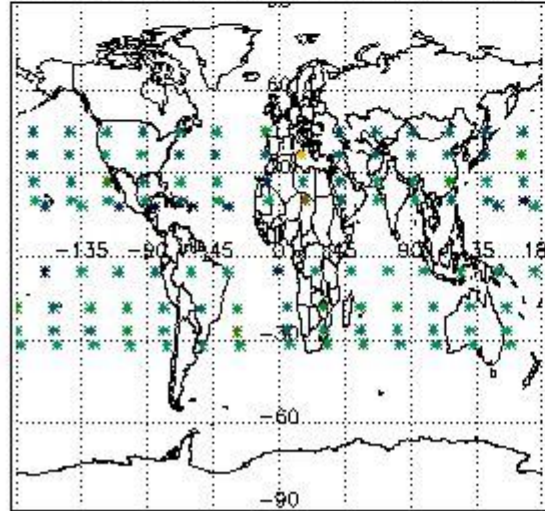
Percentage of flagged data per O3 profile



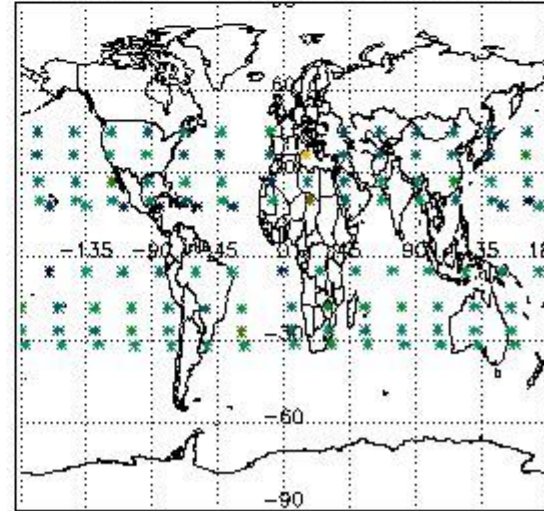
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

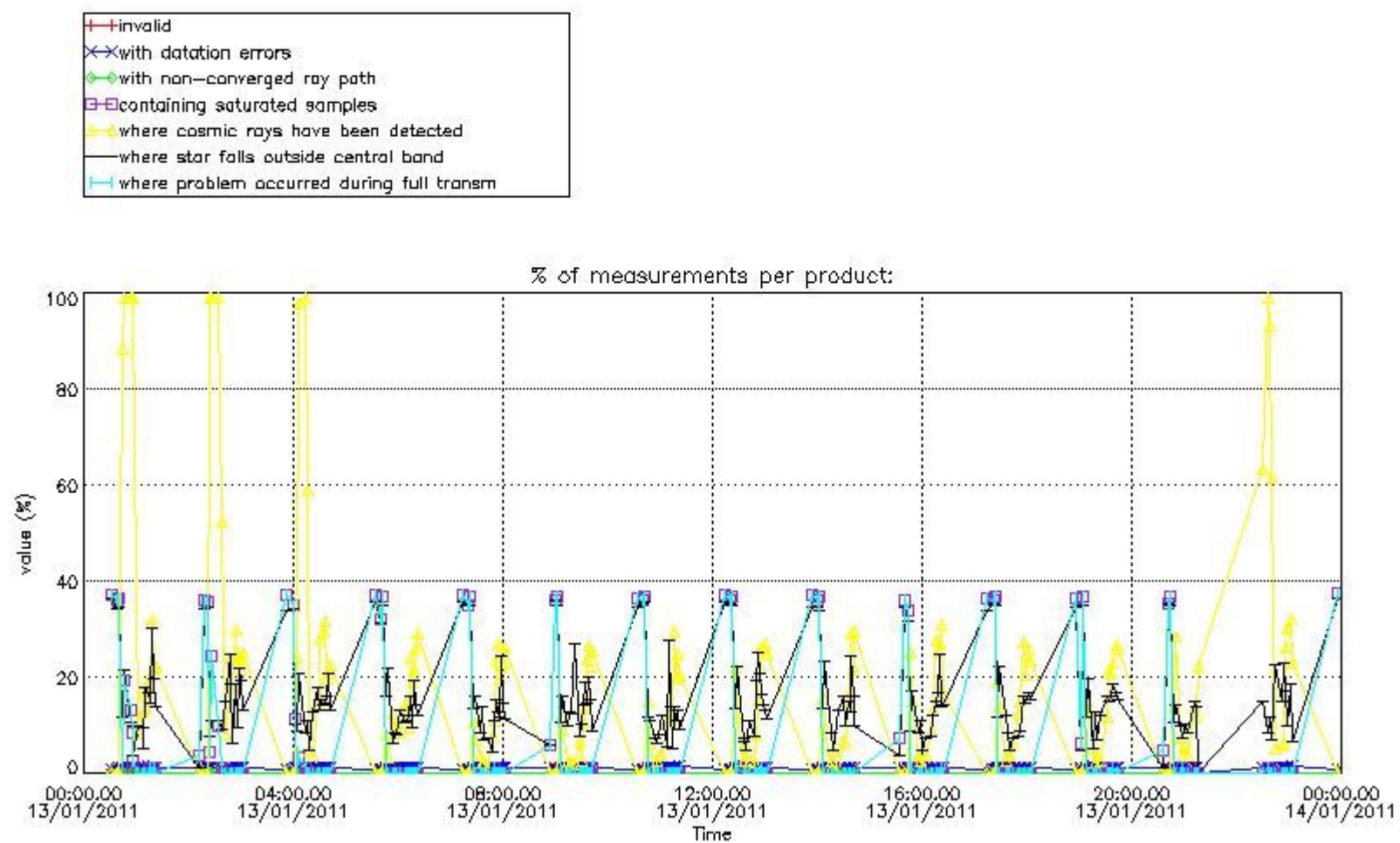


4. Level 1 quality information per product

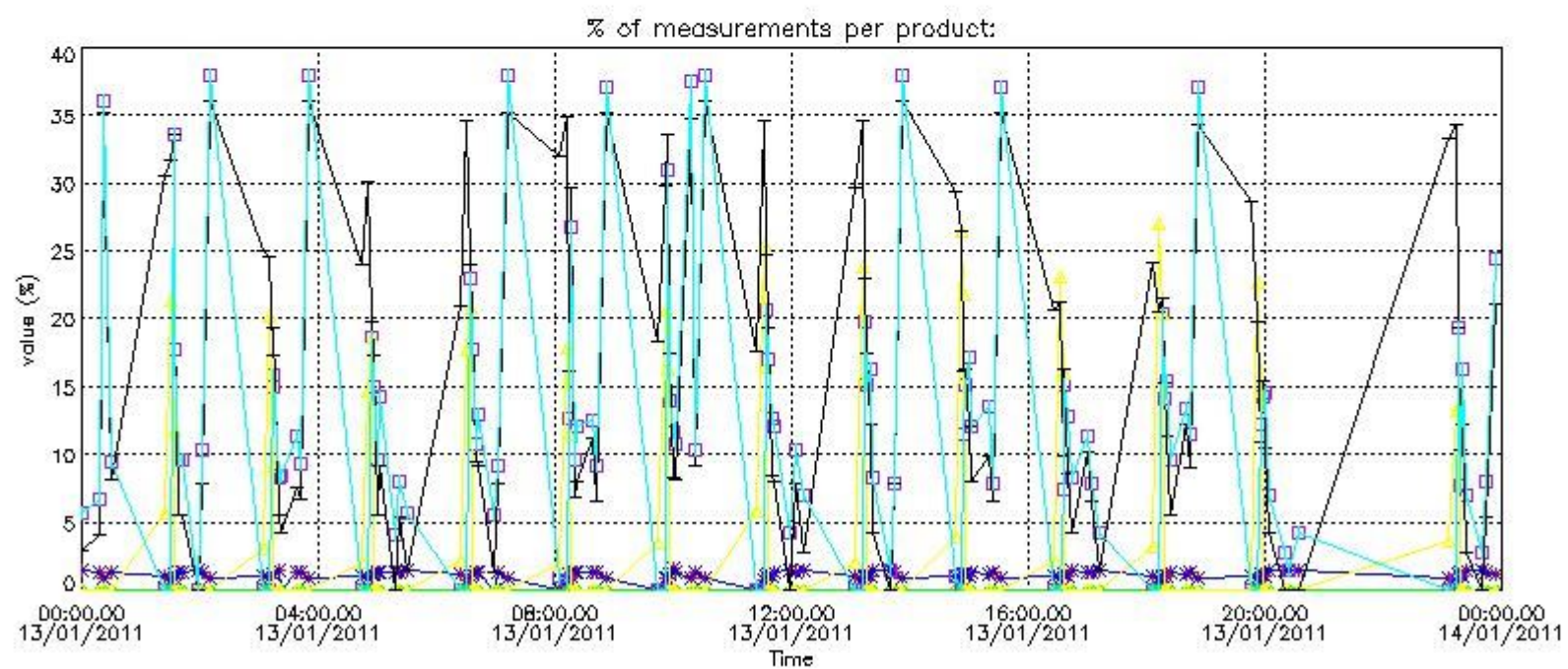
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

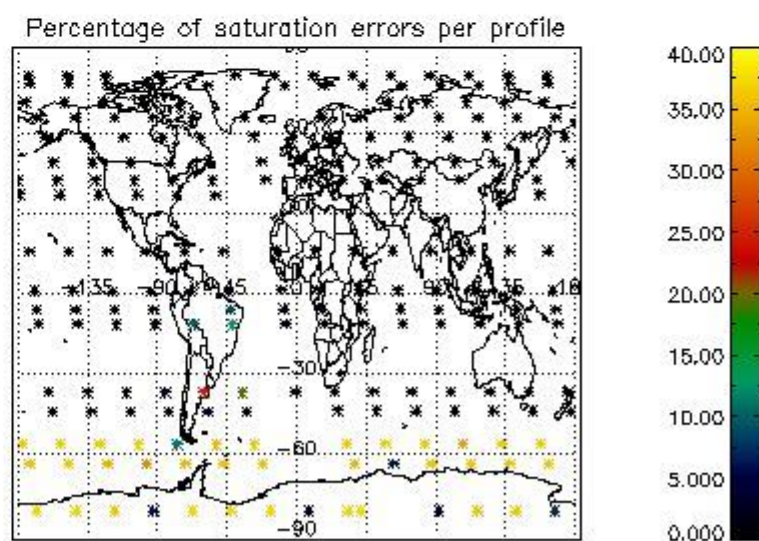
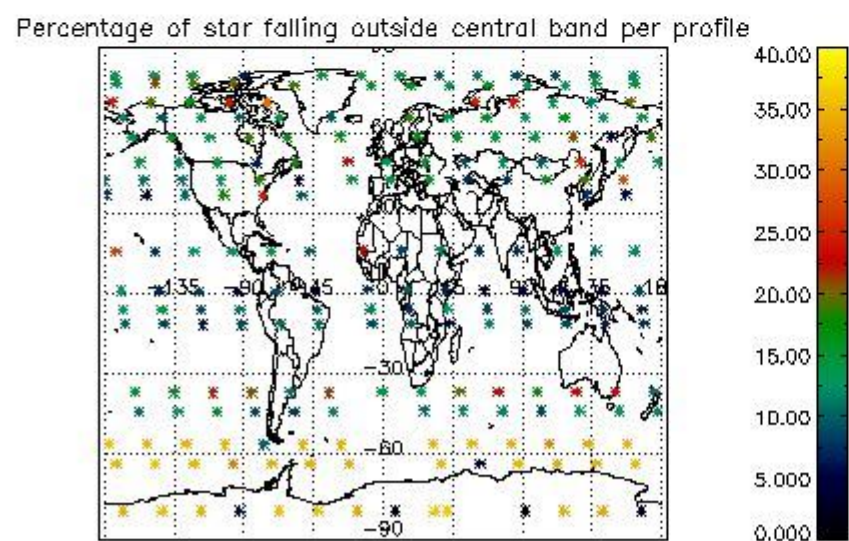
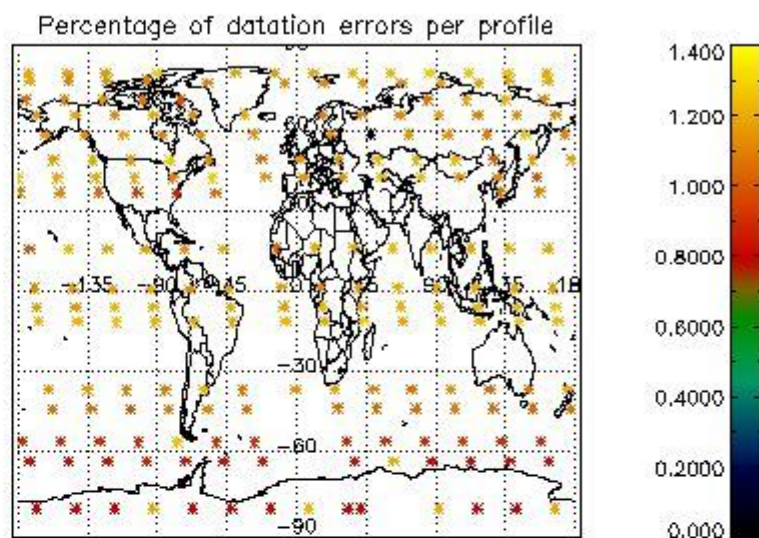
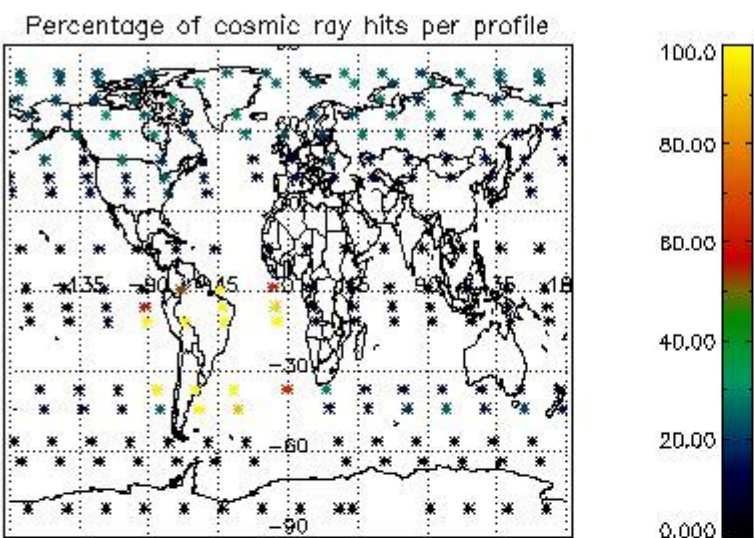


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

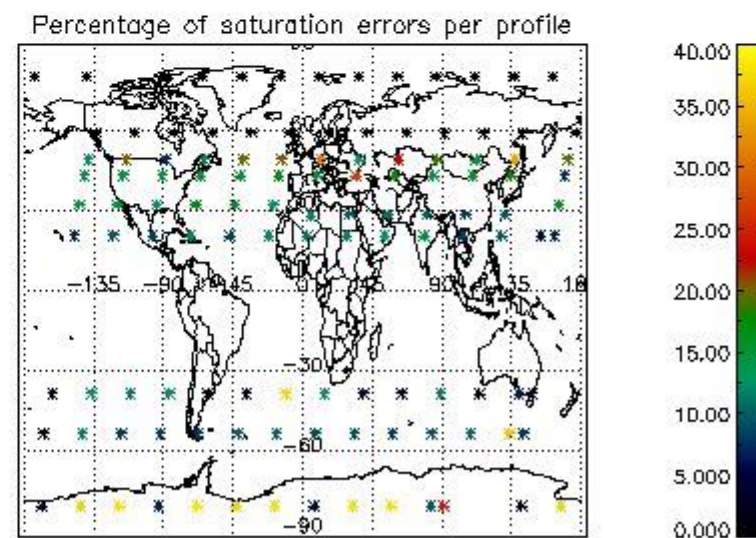
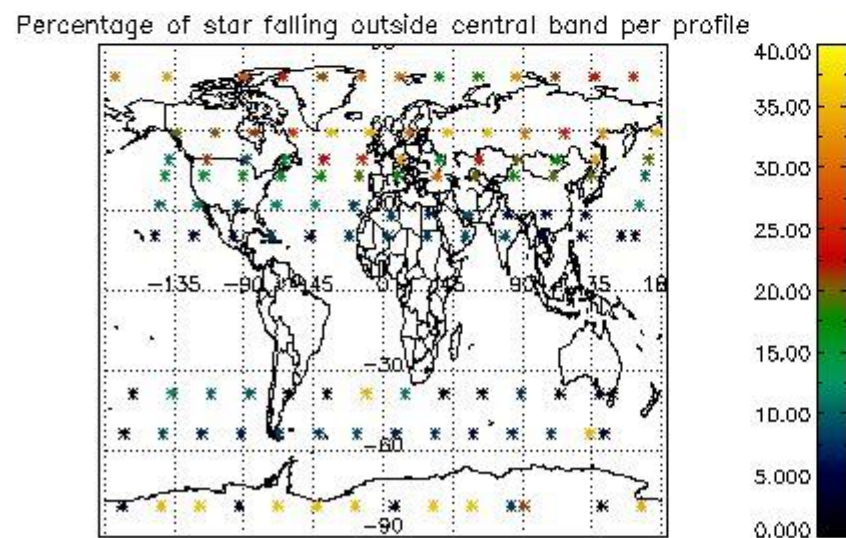
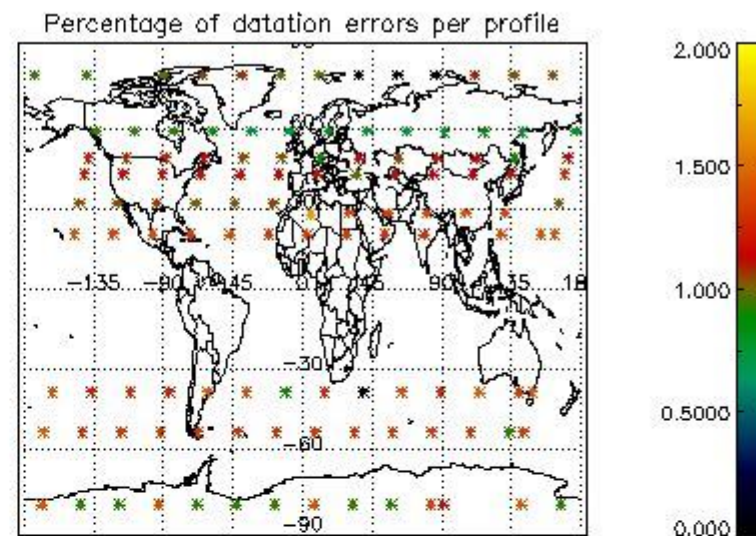
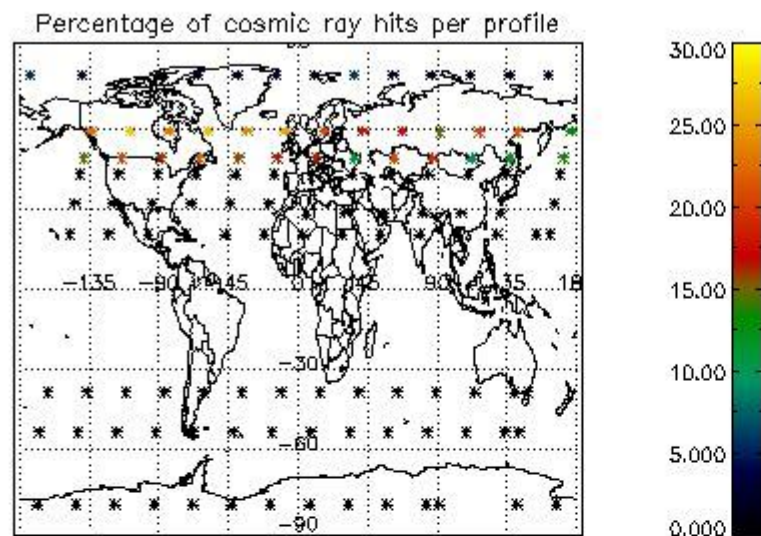


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

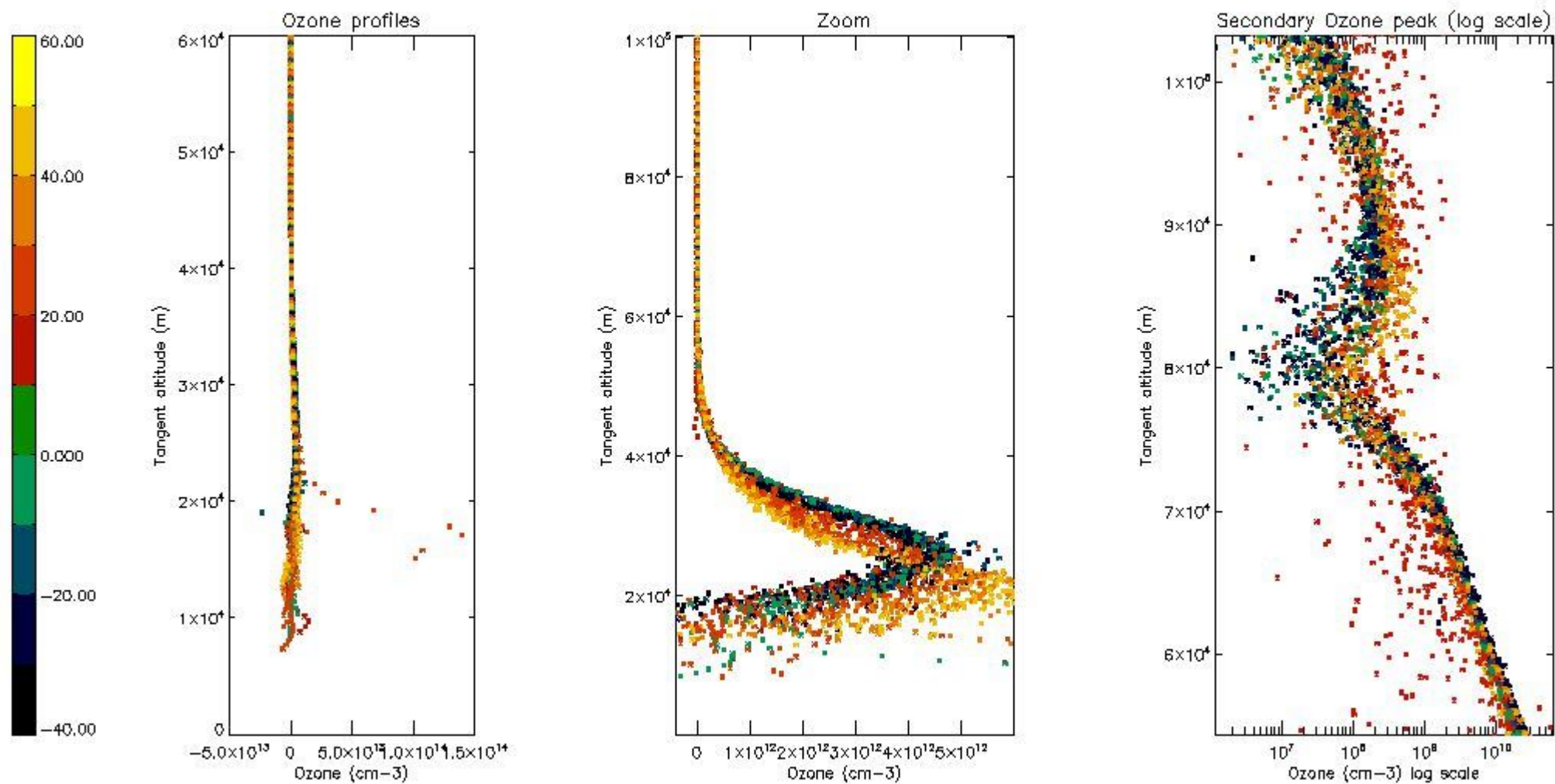
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	18

STD < 10	15
STD < 5	10

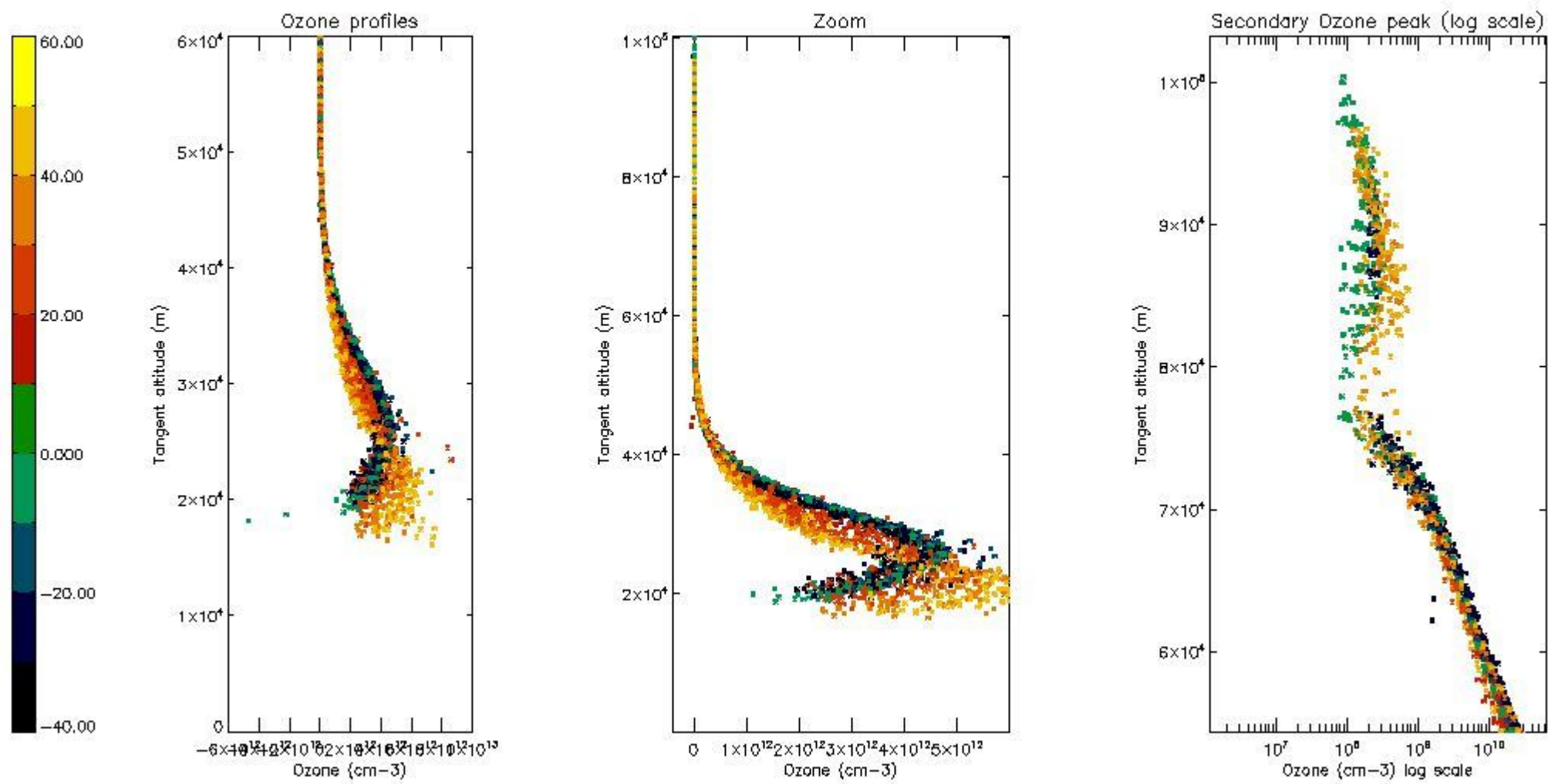
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



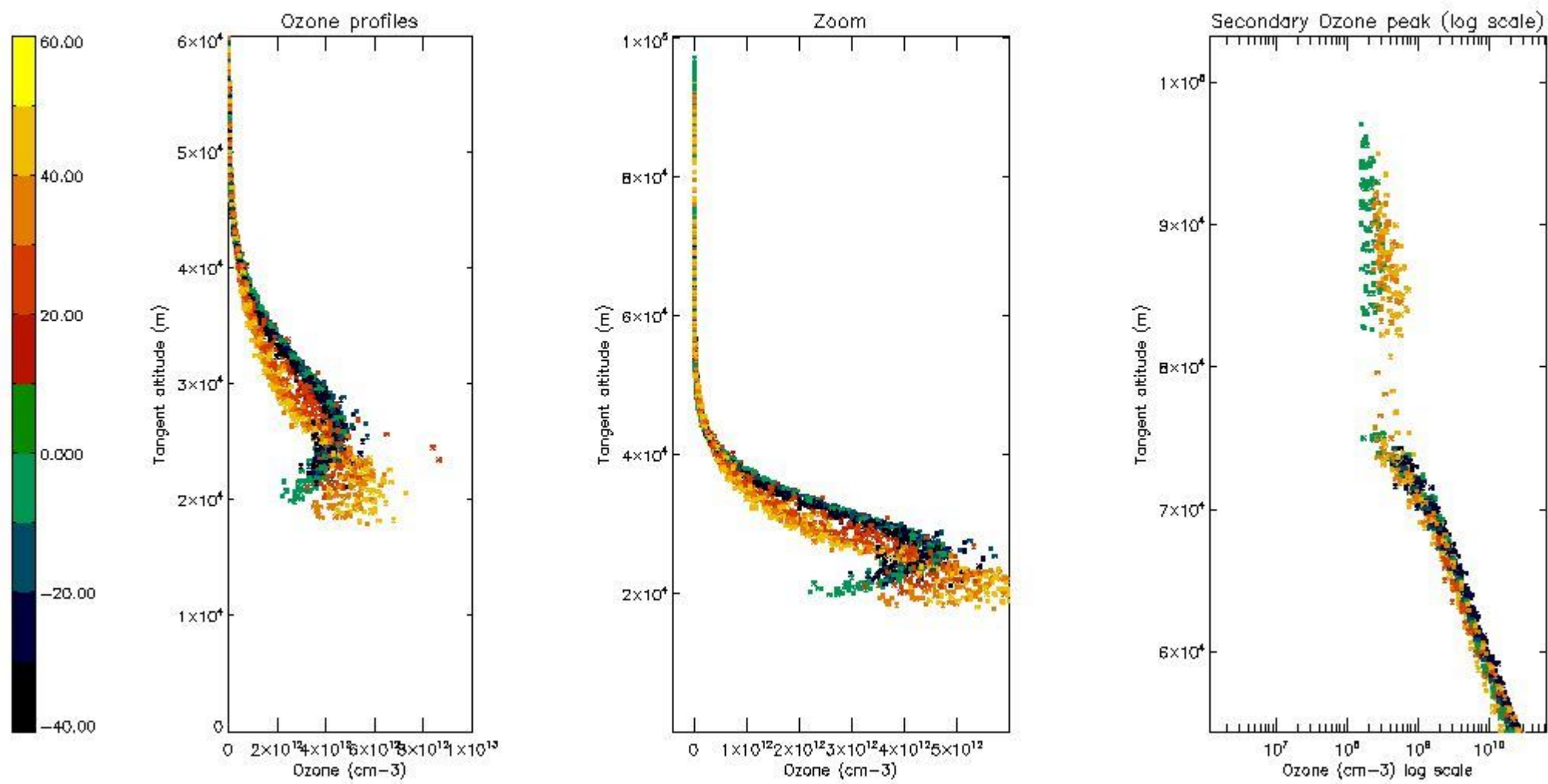
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



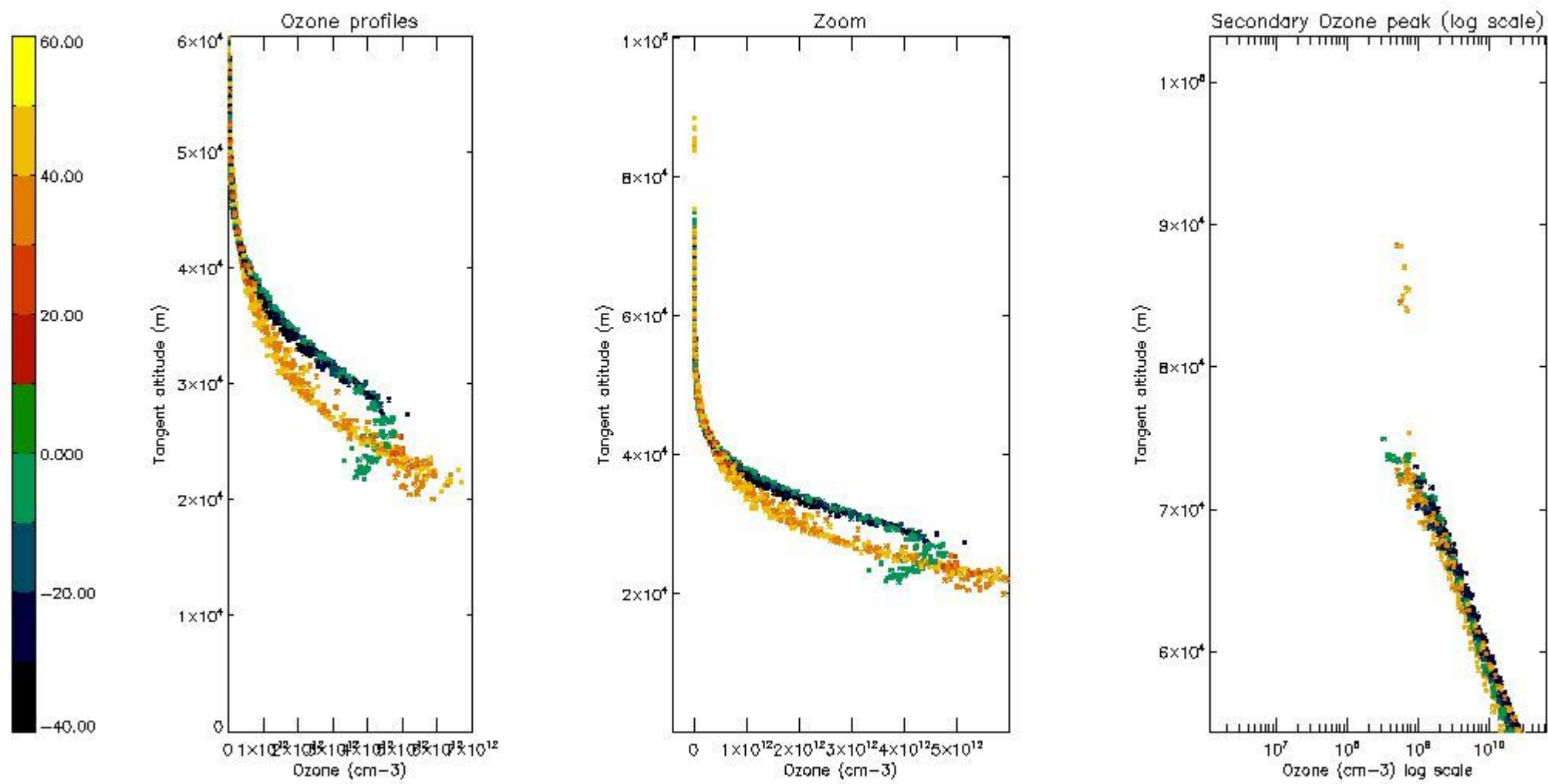
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



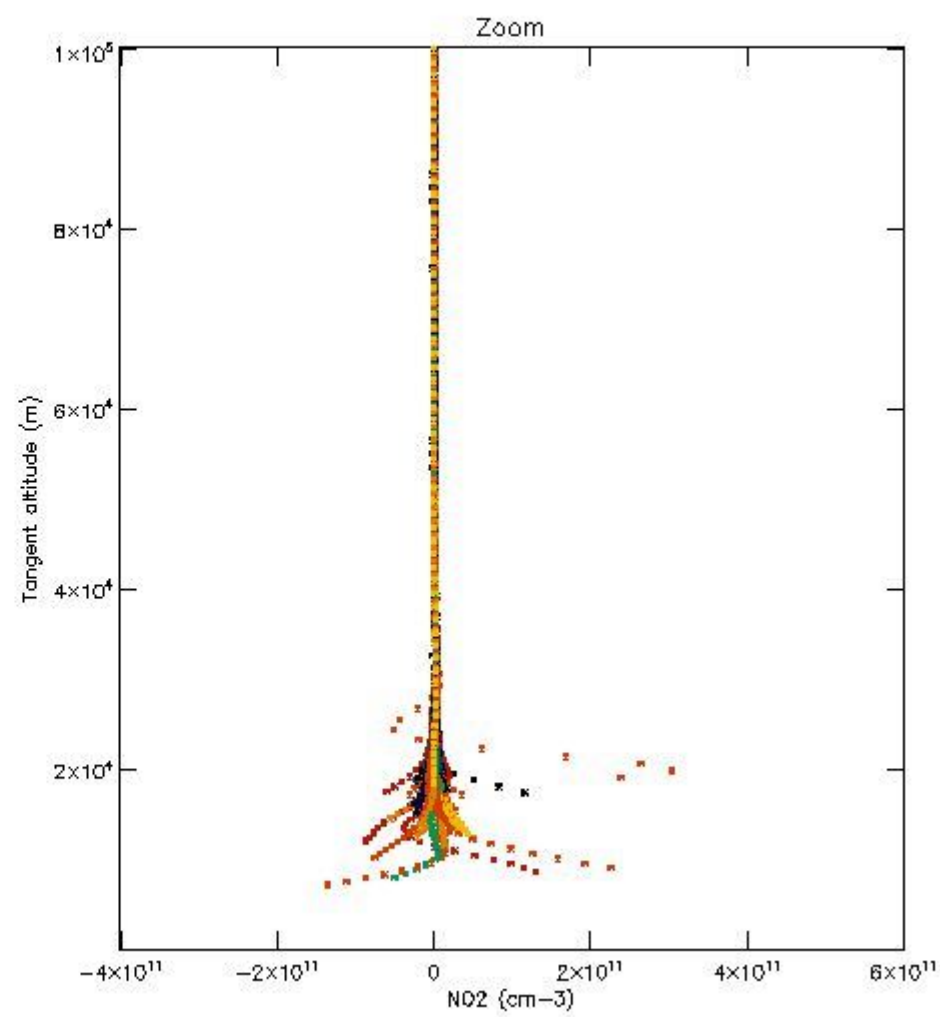
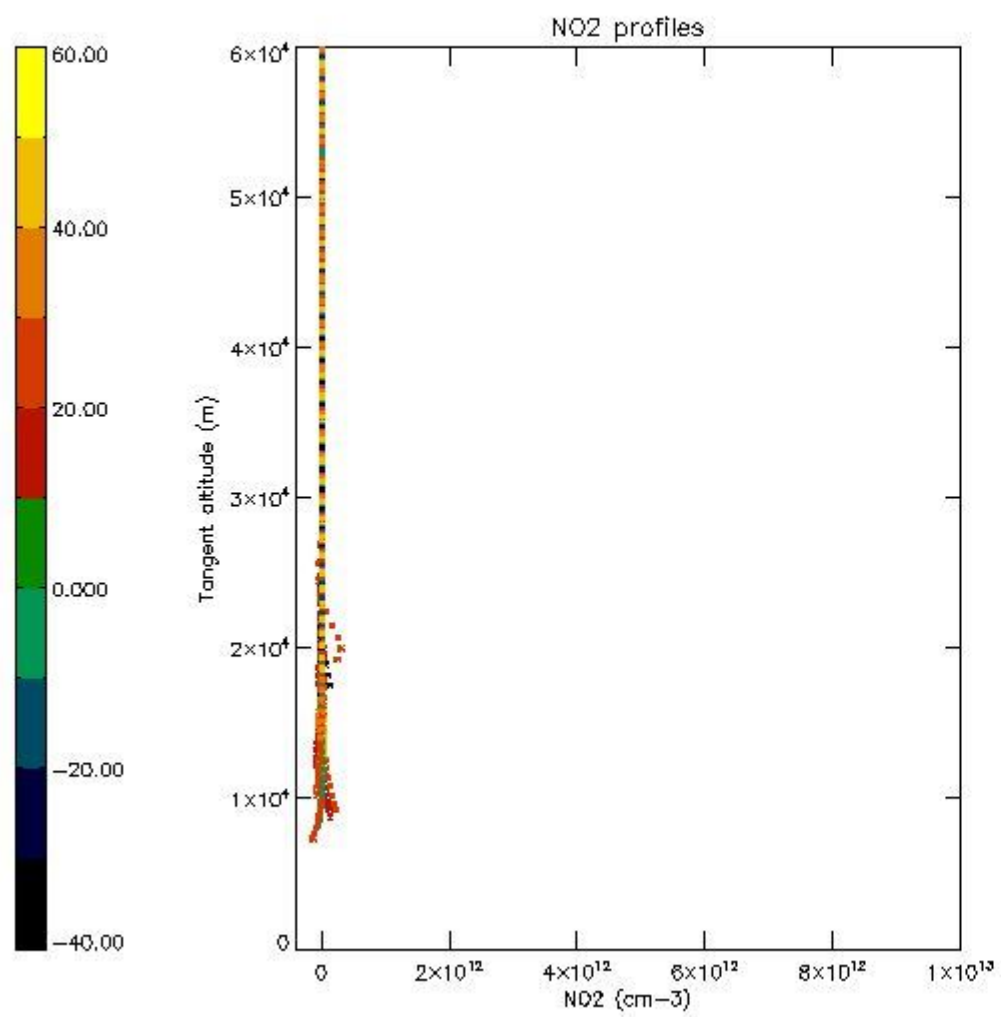
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



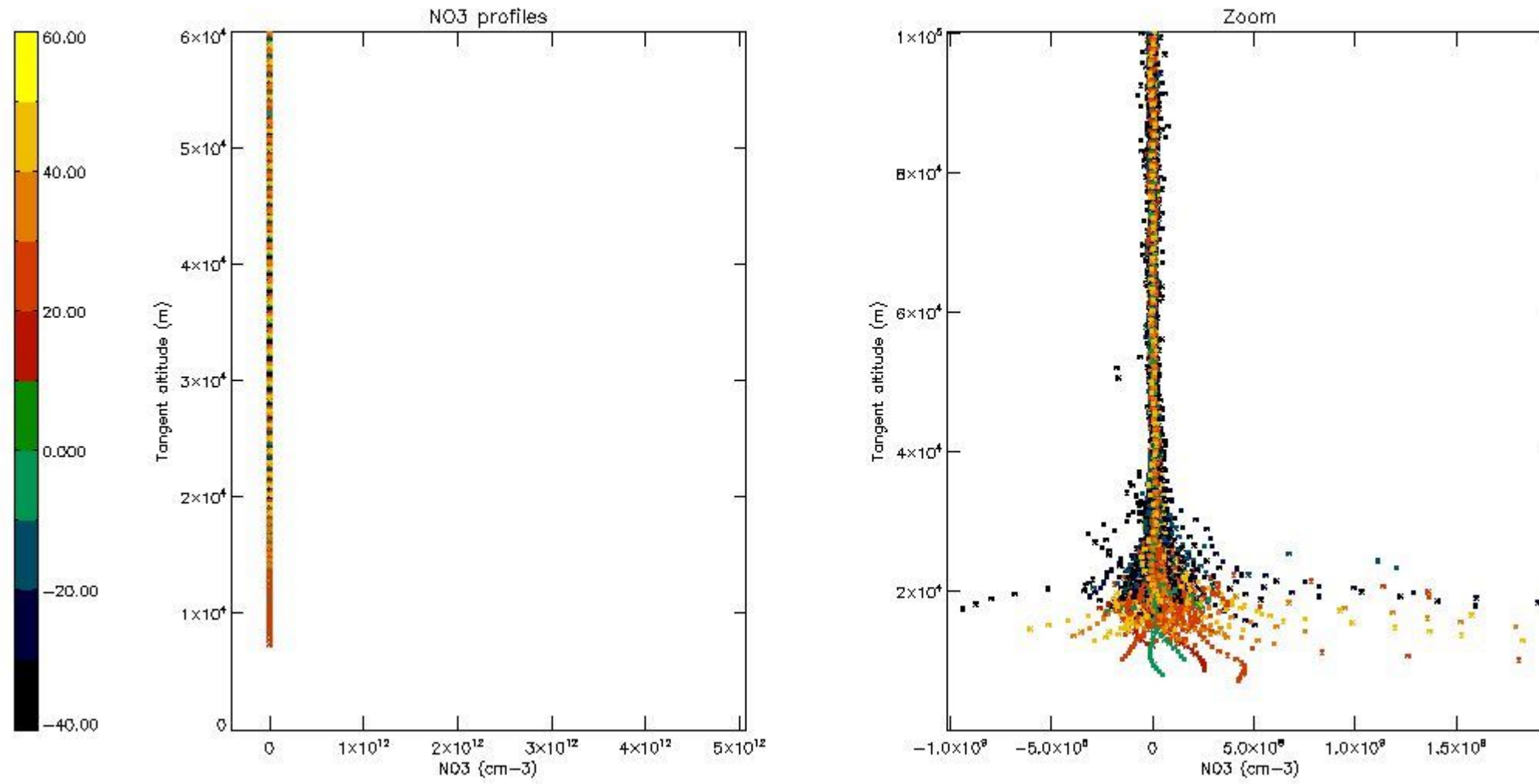
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	13-JAN-2011 00:00:48
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-JAN-2011 00:00:48
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-JAN-2011 00:00:48

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[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](#)

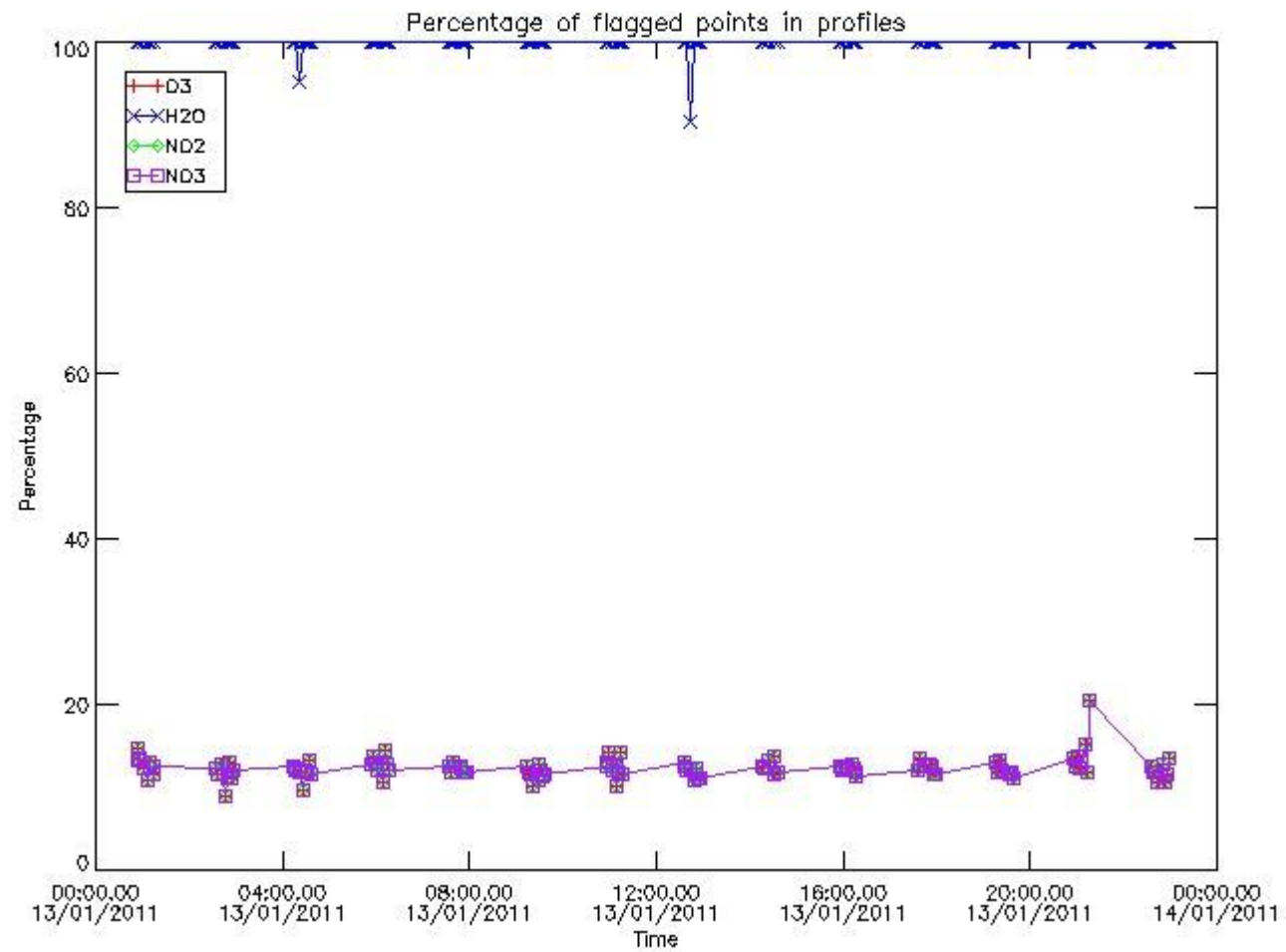
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338	GOM_NL__2PRFIN20110113_232048_000000493098_00260_46395_7195.N1	13-JAN-2011 23:20:48	Bright	49.000	17	78Bet Gem	1.1610	4500.0	98	46395	No
339	GOM_NL__2PRFIN20110113_232403_000000363098_00260_46395_7196.N1	13-JAN-2011 23:24:03	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	46395	No
340	GOM_NL__2PRFIN20110113_234033_000000363098_00260_46395_7197.N1	13-JAN-2011 23:40:33	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	46395	No
341	GOM_NL__2PRFIN20110113_234449_000000383098_00260_46395_7198.N1	13-JAN-2011 23:44:49	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	46395	No
342	GOM_NL__2PRFIN20110113_235335_000000453098_00260_46395_7199.N1	13-JAN-2011 23:53:35	Bright	45.000	133	40Zet Her	2.8070	6000.0	90	46395	No
343	GOM_NL__2PRFIN20110113_235546_000000633098_00260_46395_7200.N1	13-JAN-2011 23:55:46	Bright	63.000	67	5Alp CrB	2.2210	11000.	126	46395	No

3. Quality information per product

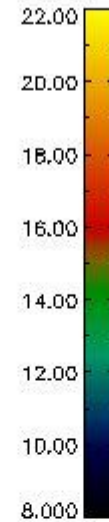
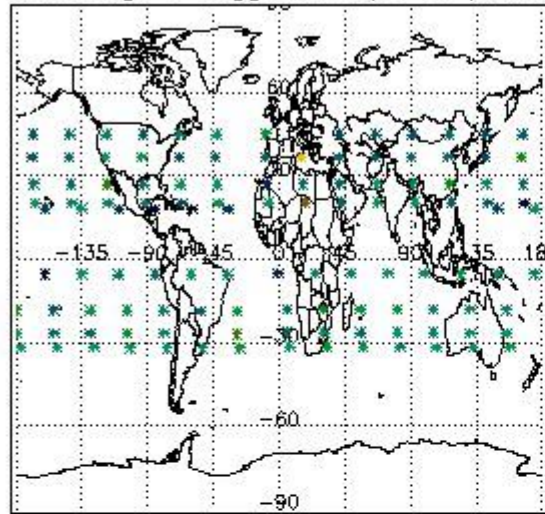
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

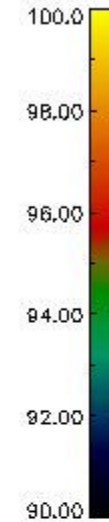
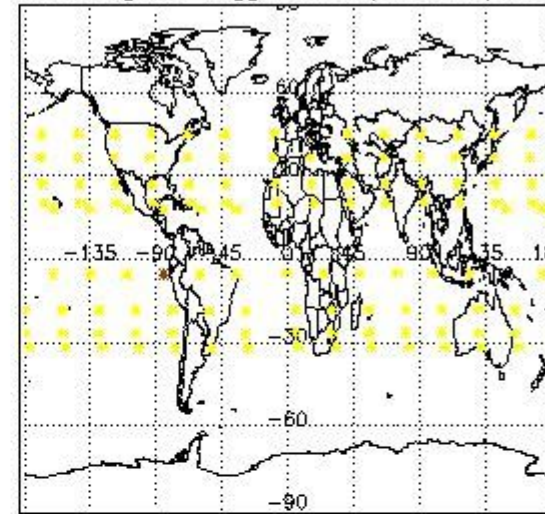


3.2 Plot quality information per product (world map)

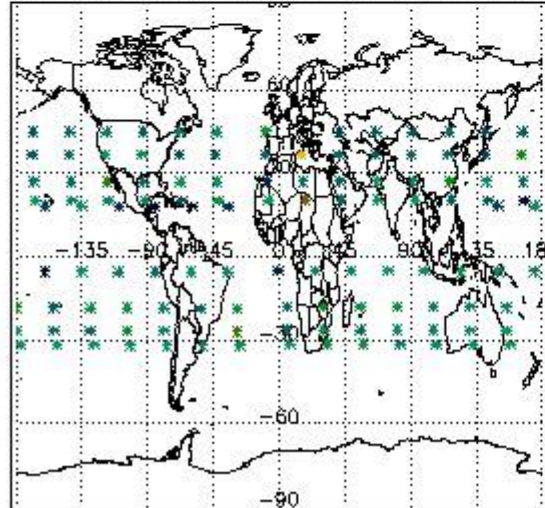
Percentage of flagged data per O3 profile



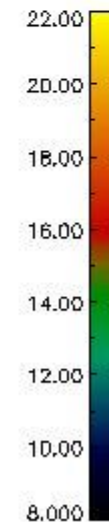
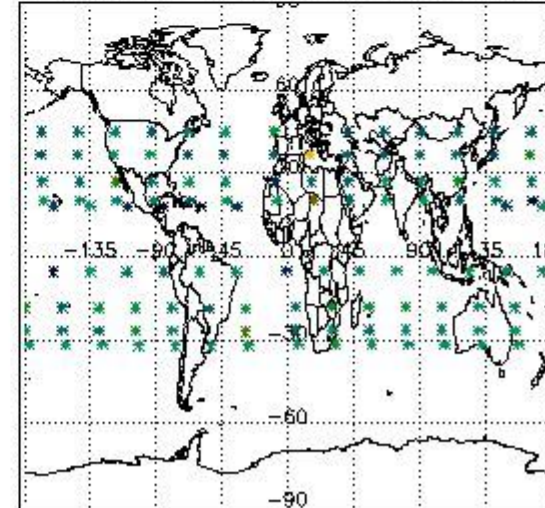
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

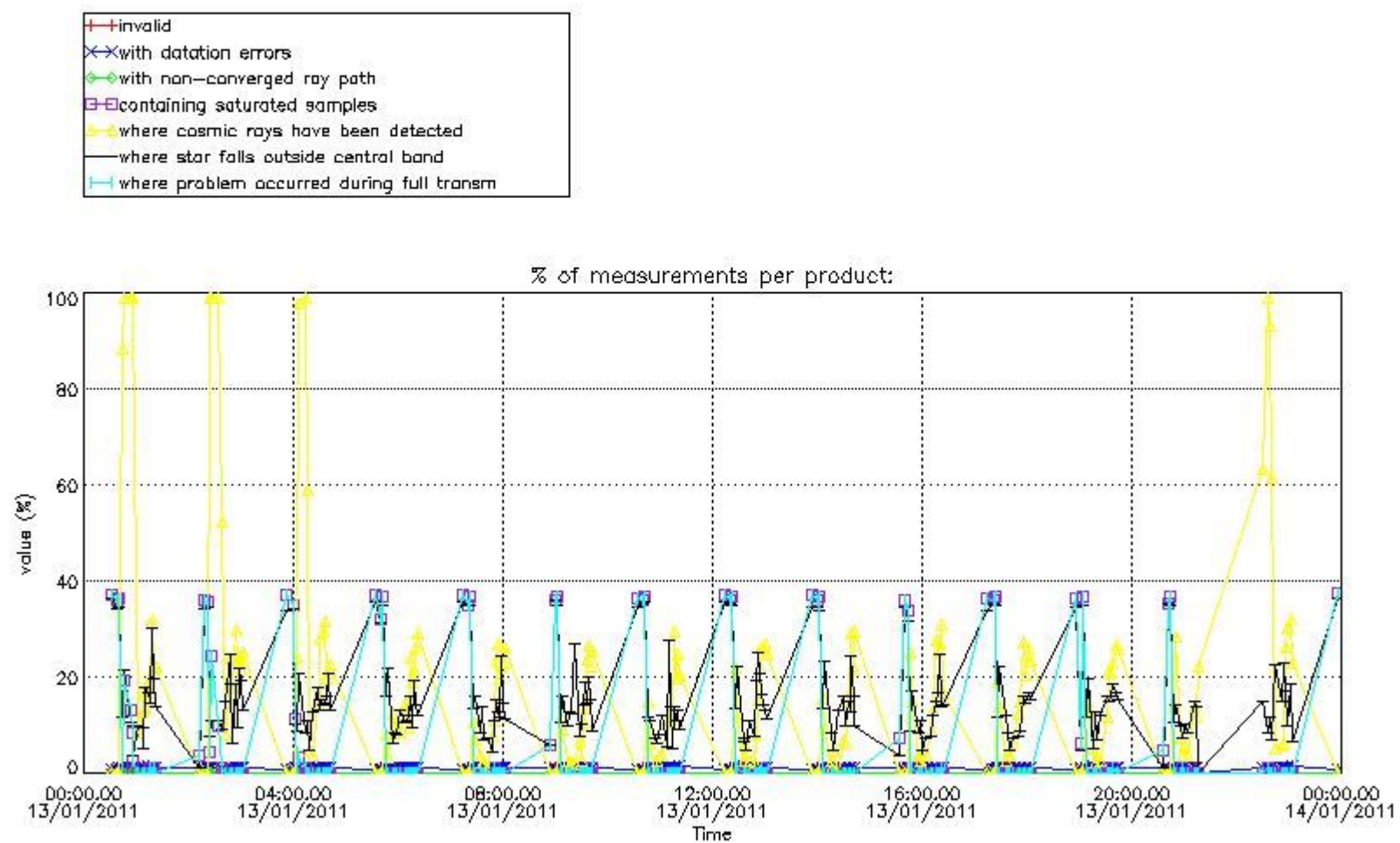


4. Level 1 quality information per product

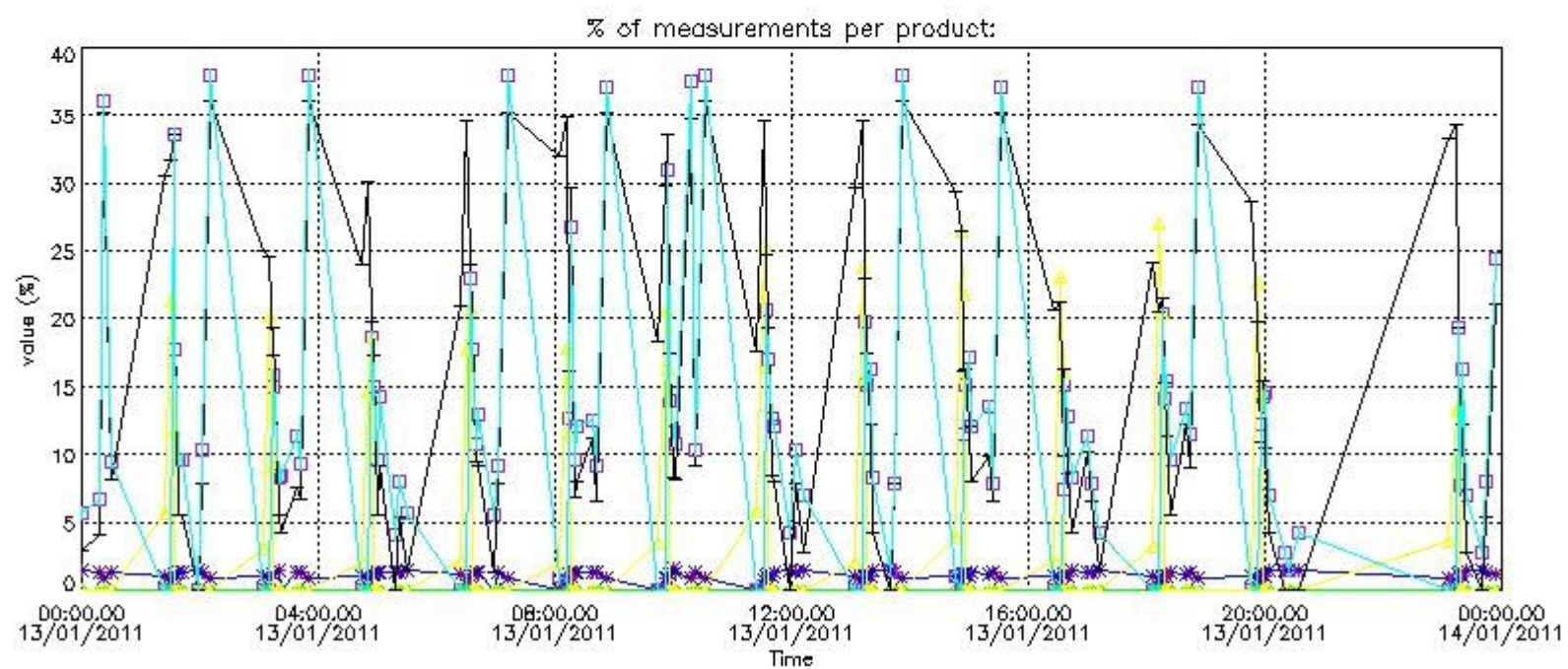
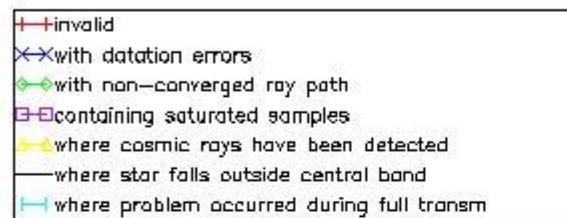
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

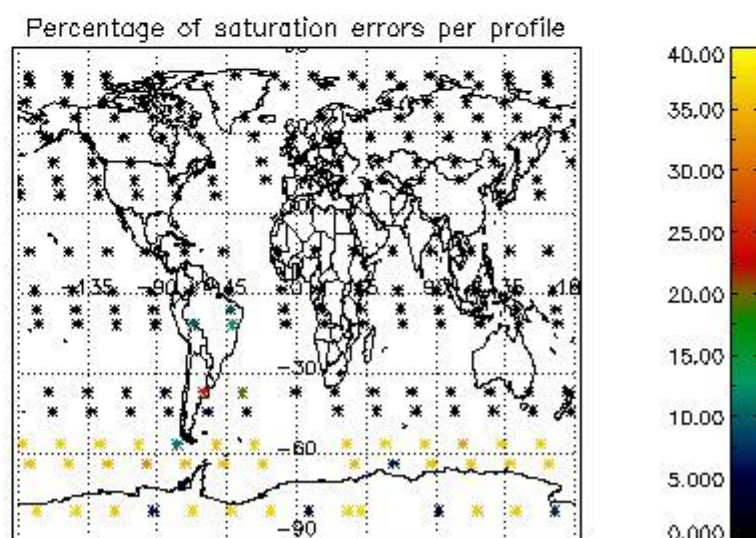
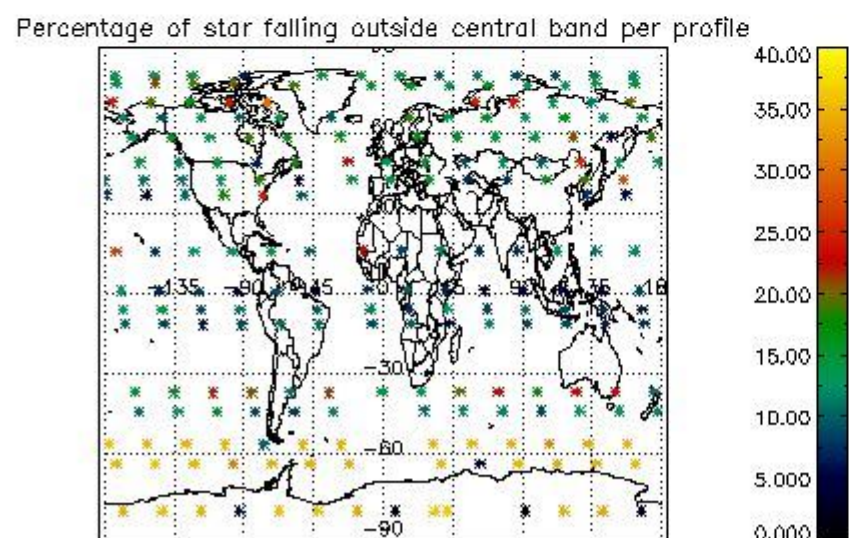
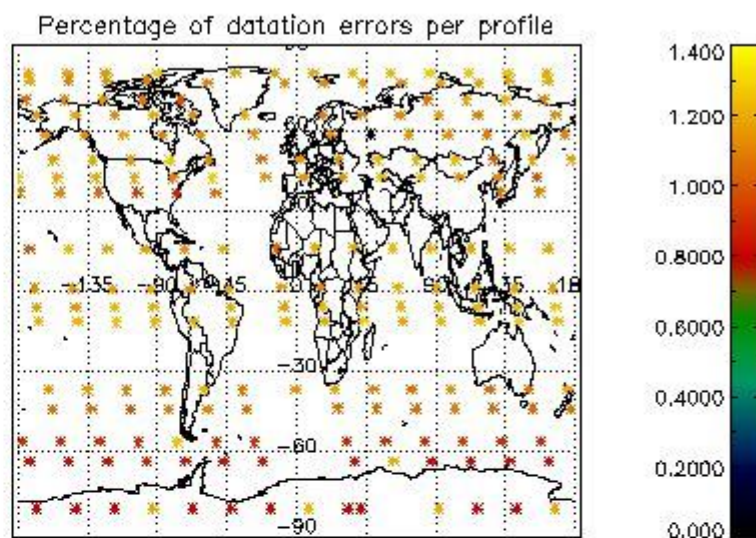
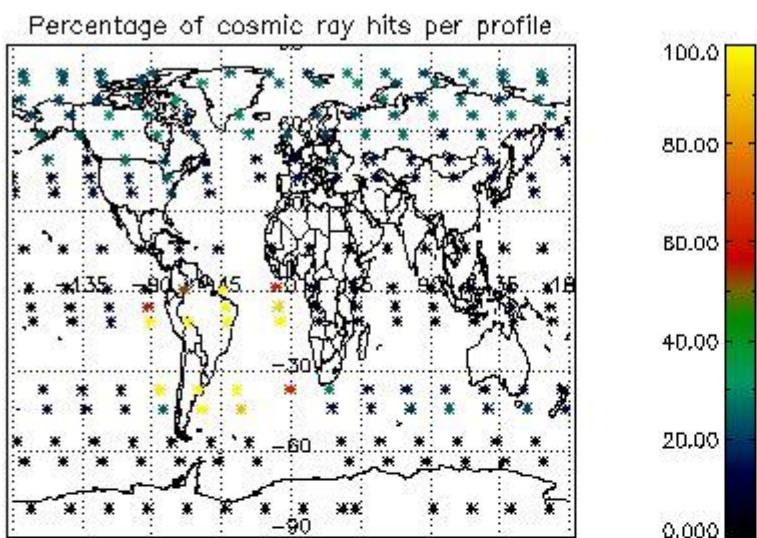


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

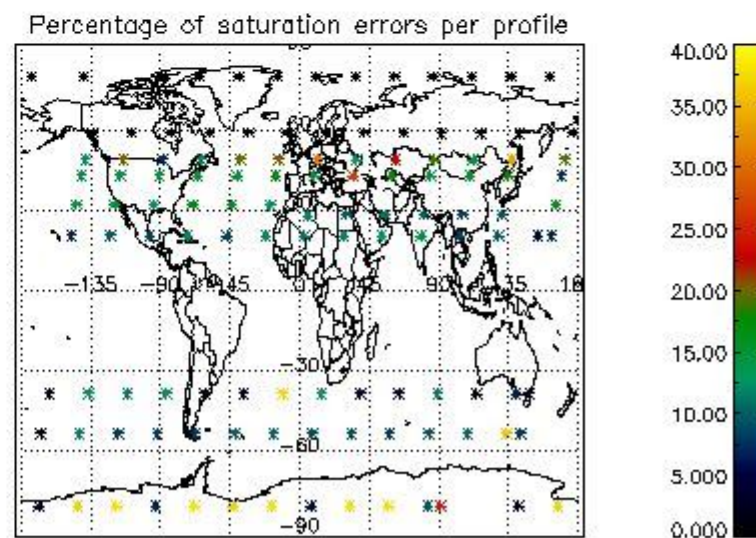
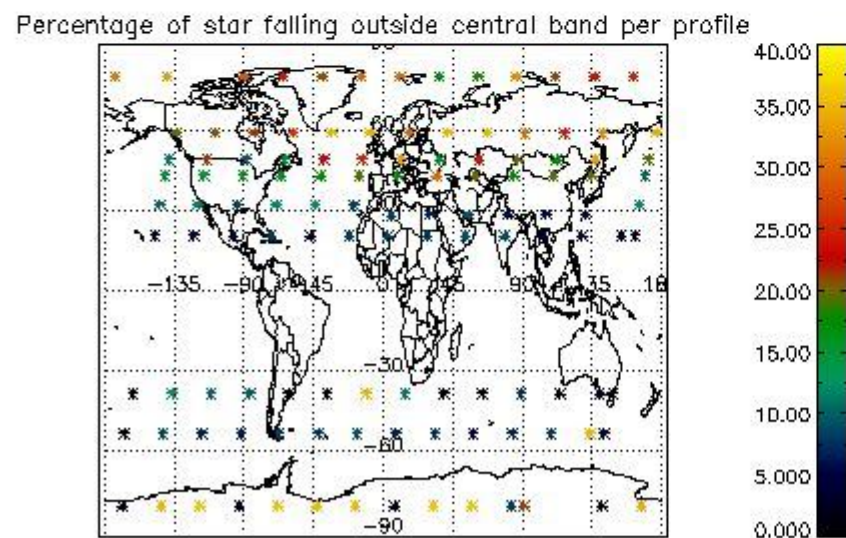
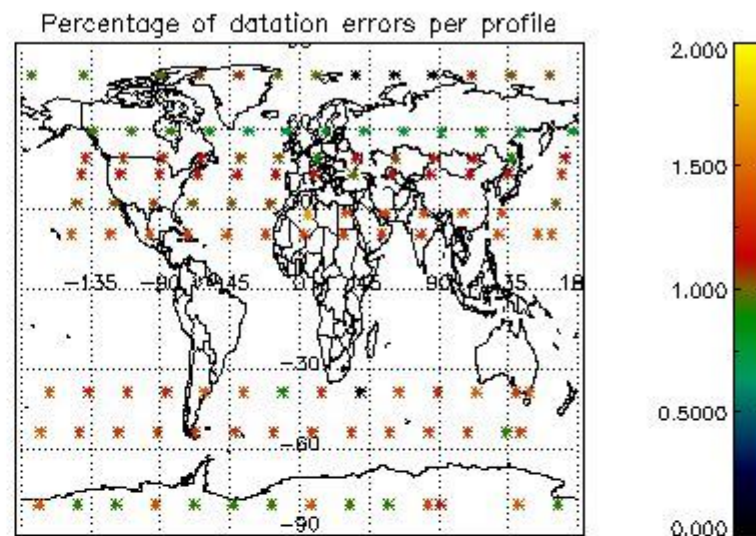
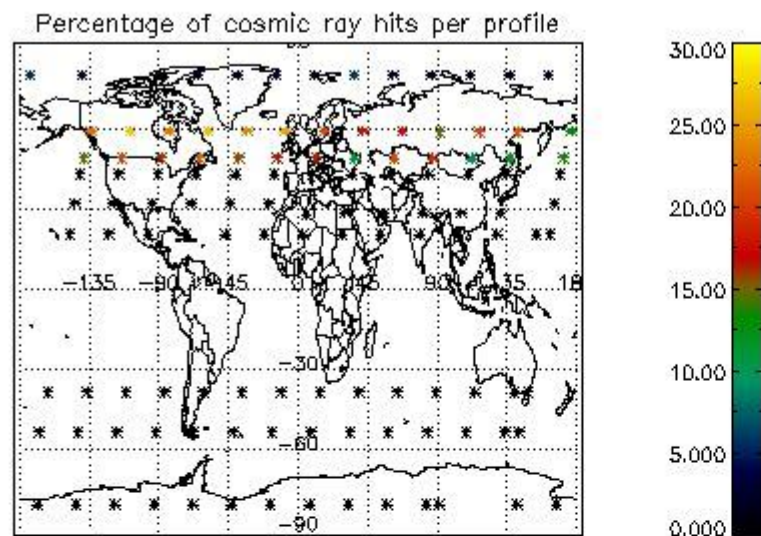


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

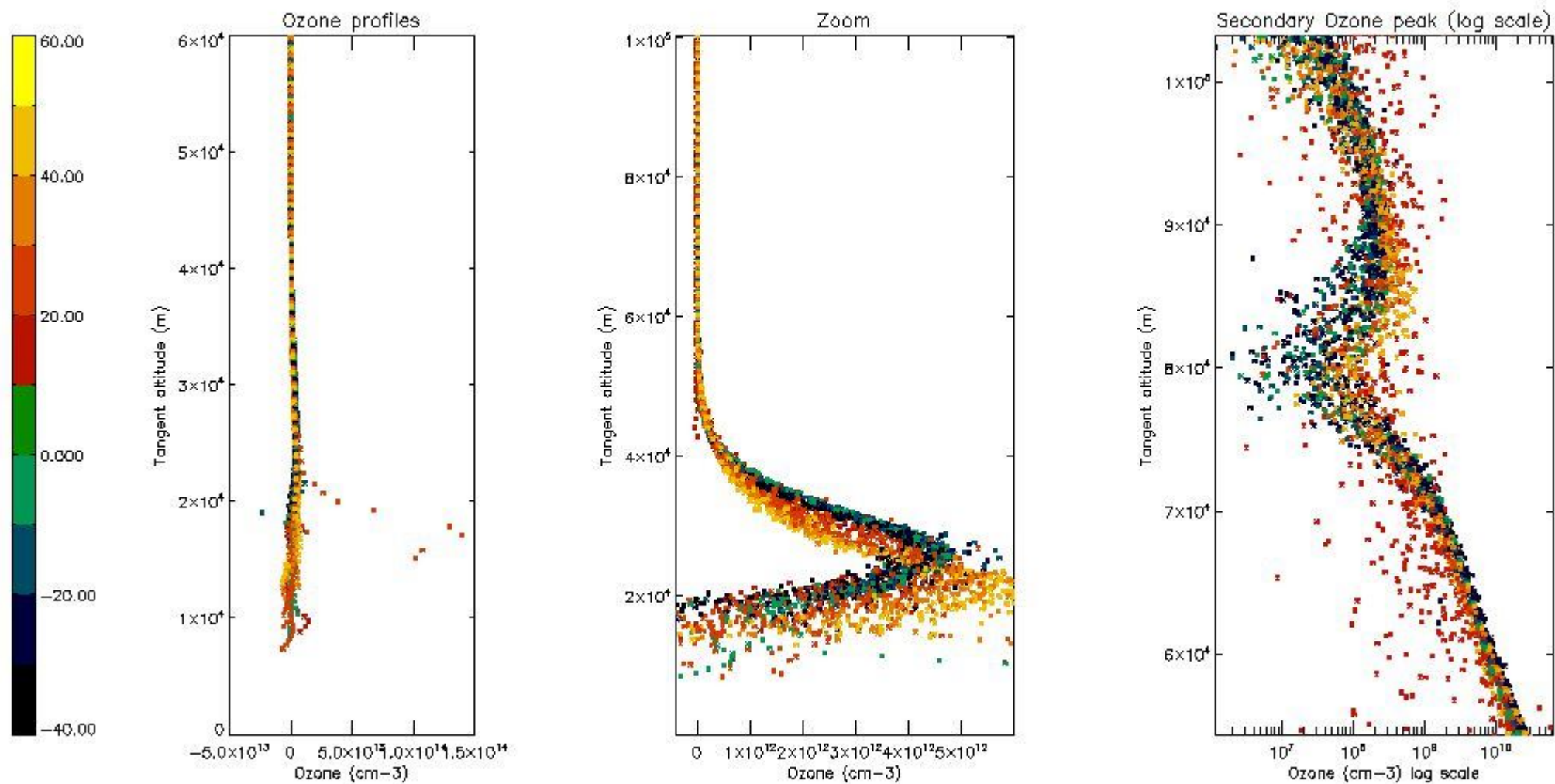
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	18

STD < 10	15
STD < 5	10

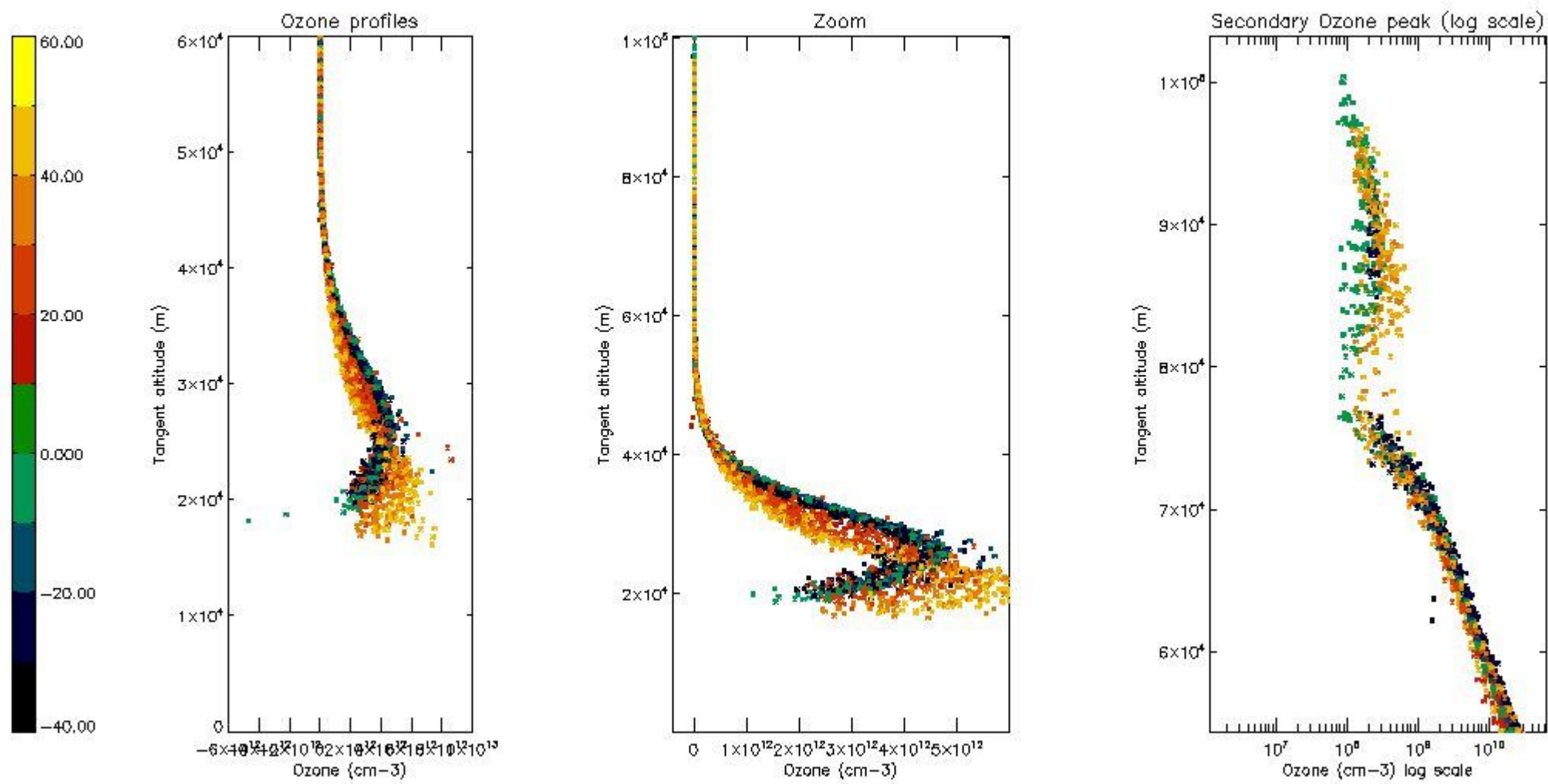
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



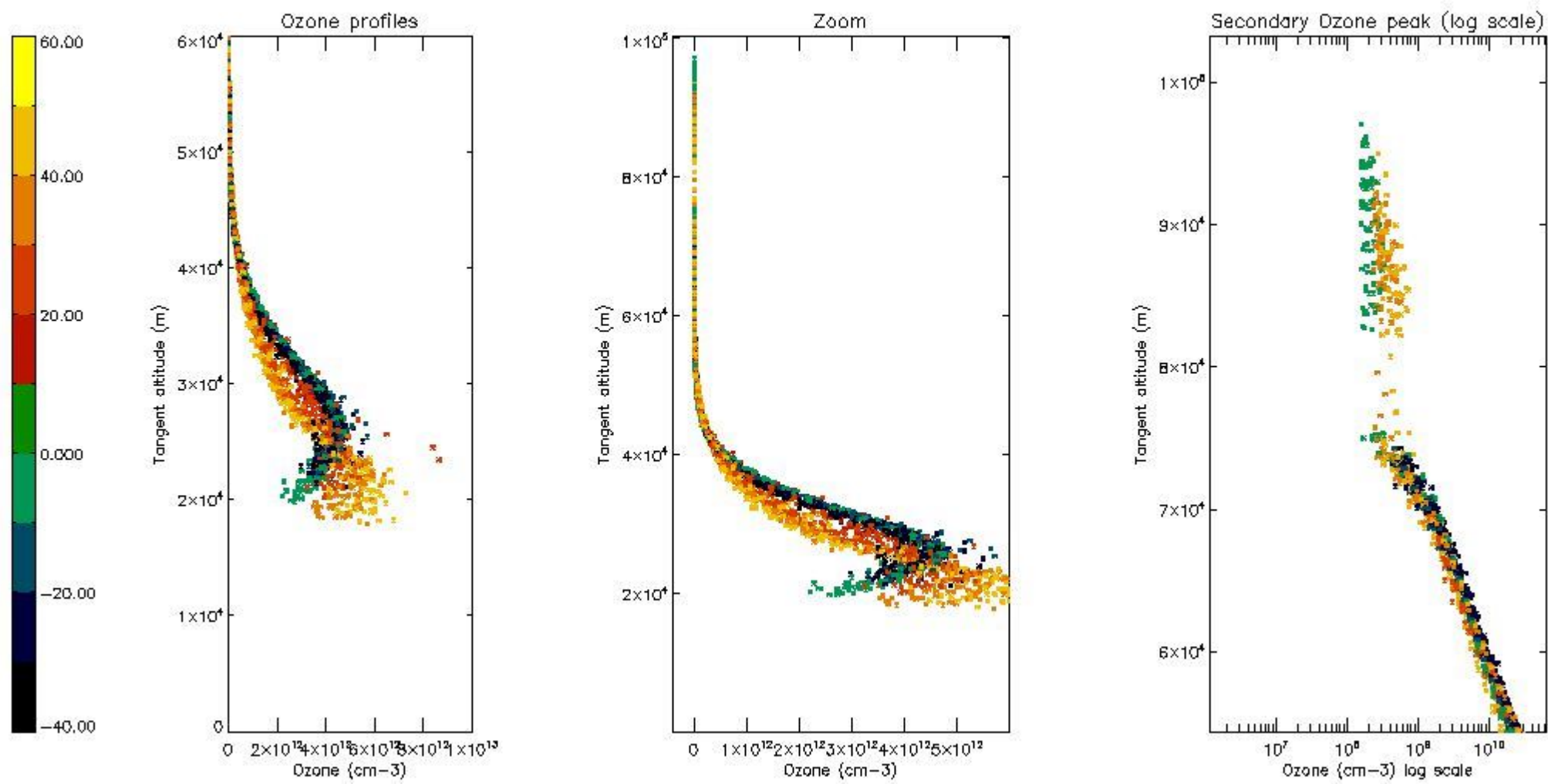
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



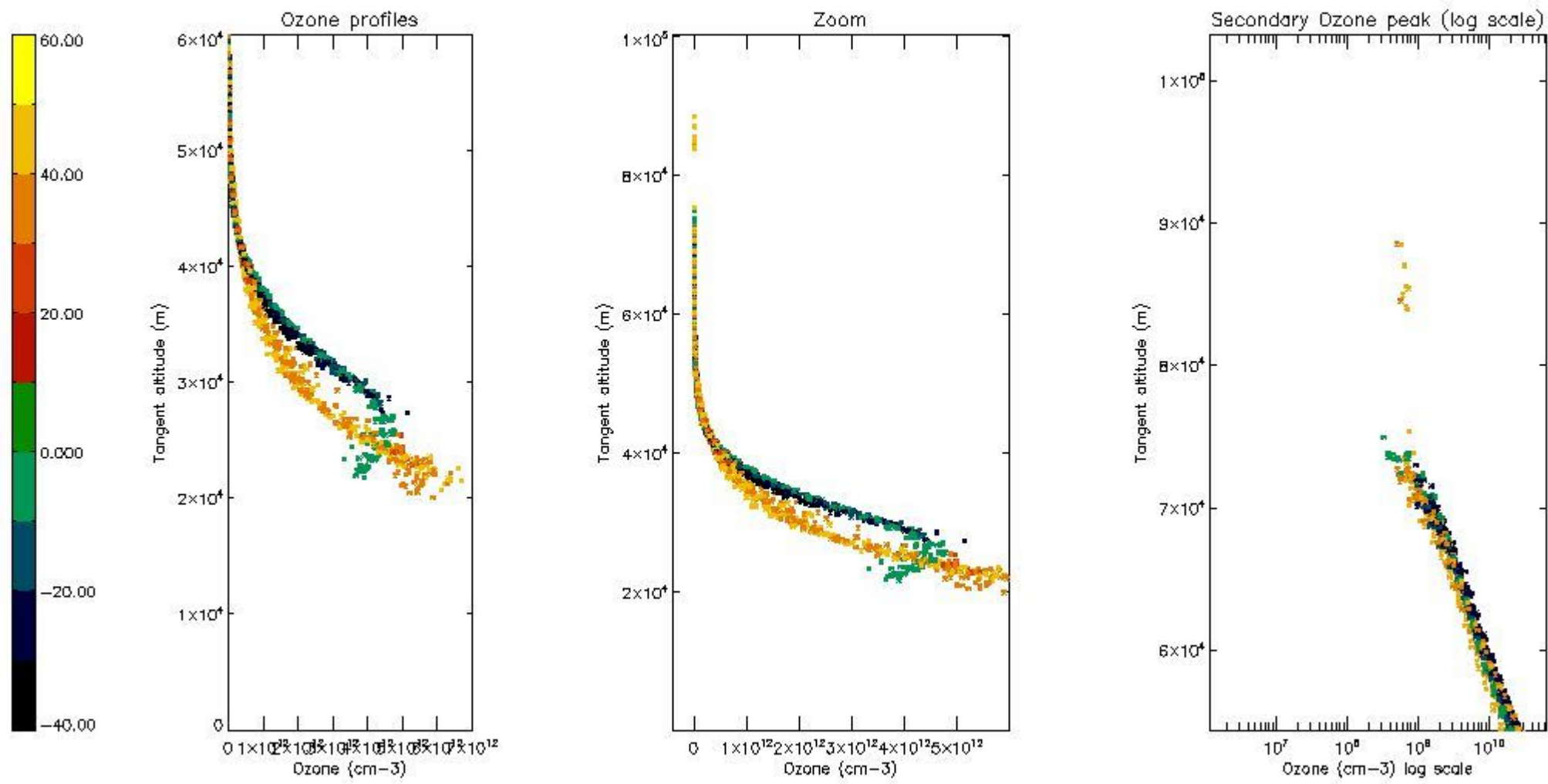
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



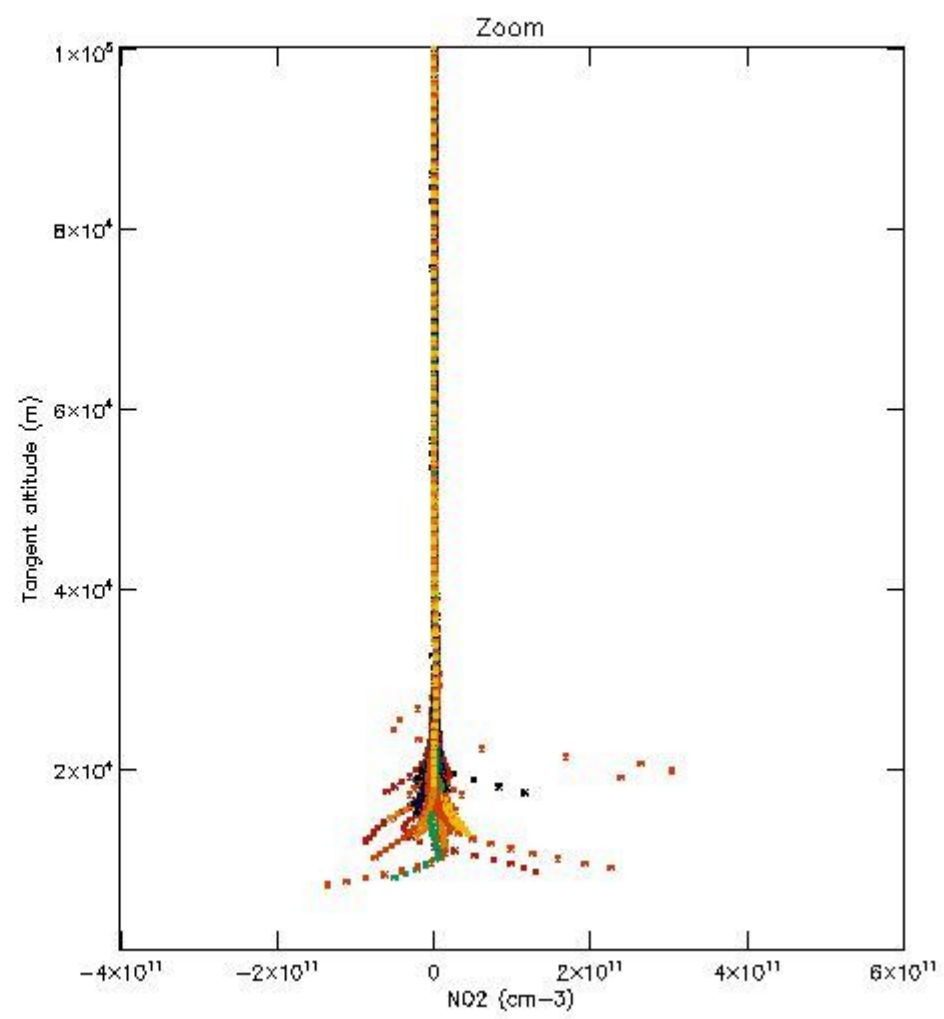
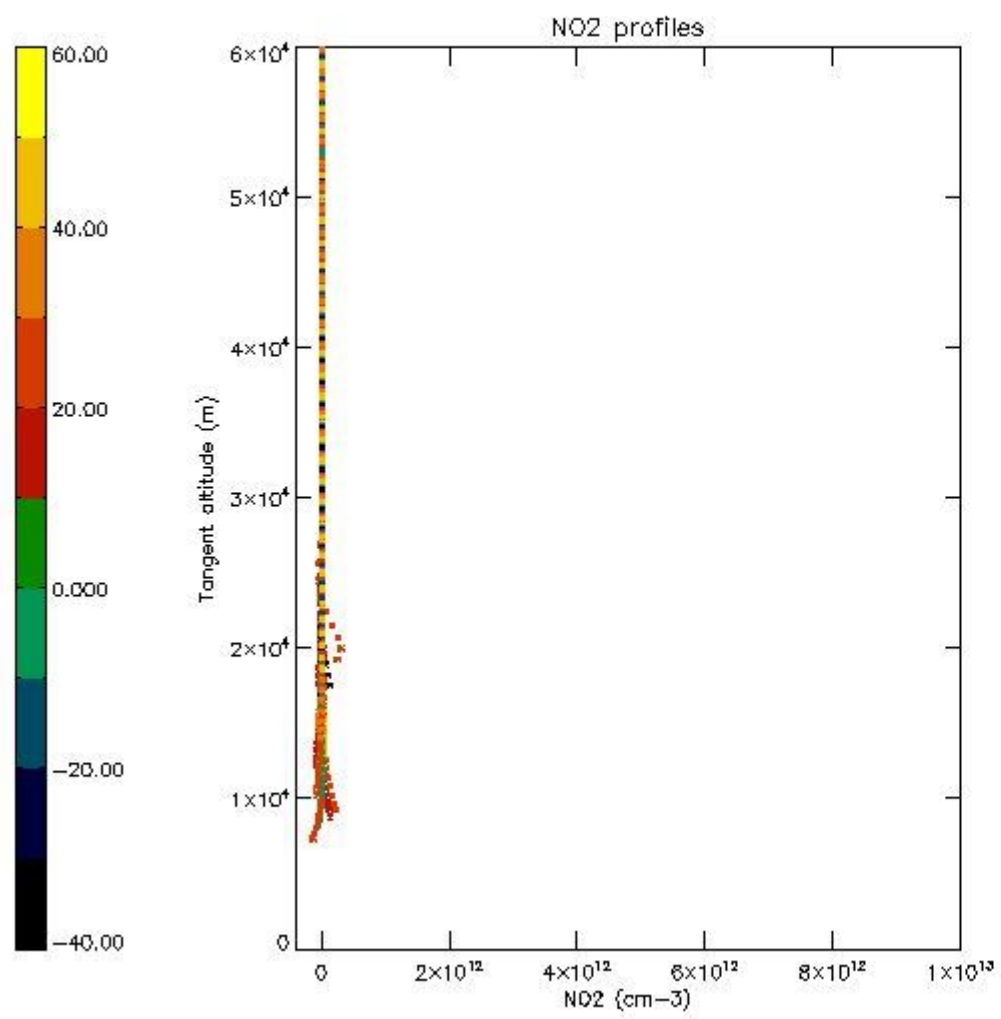
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



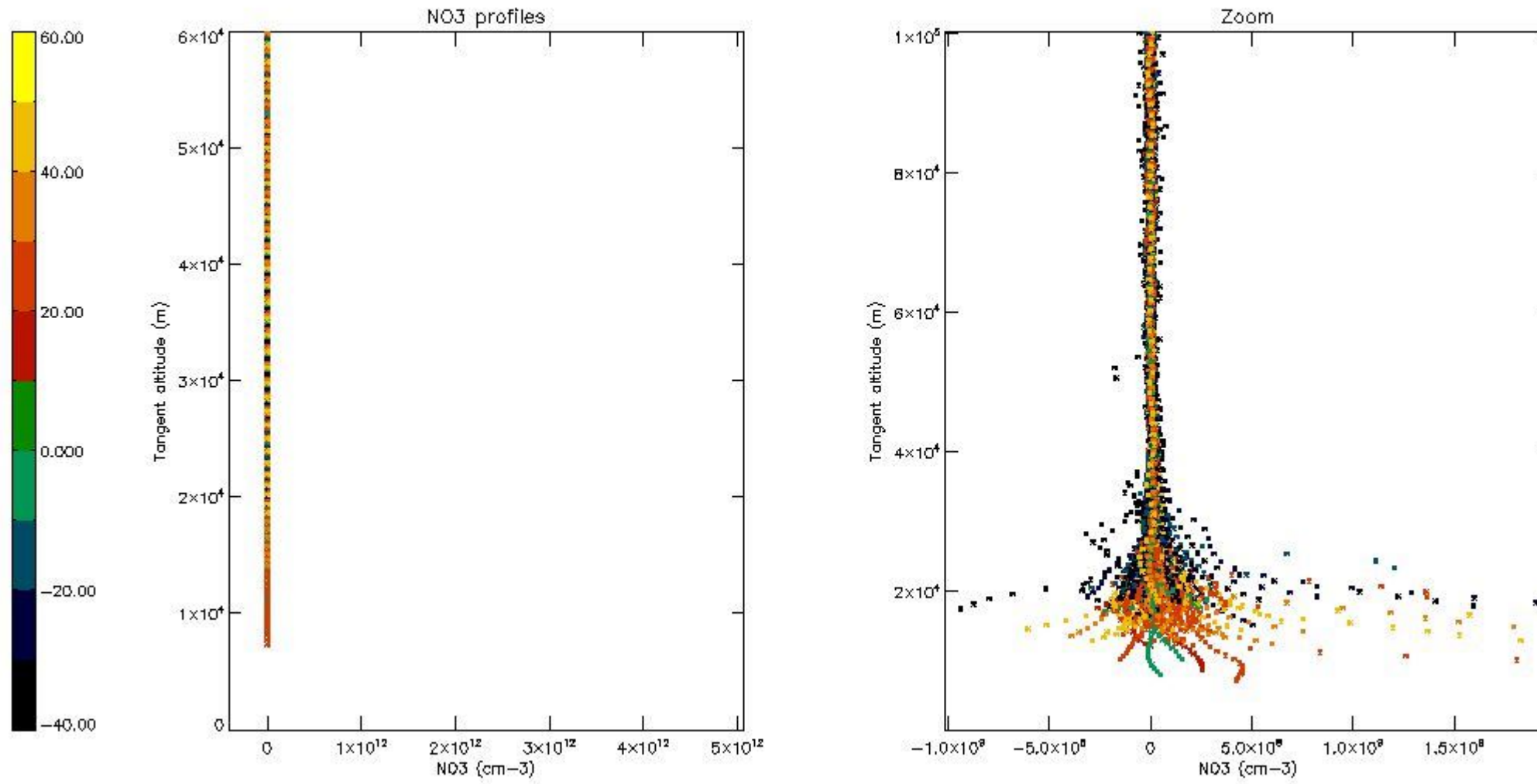
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

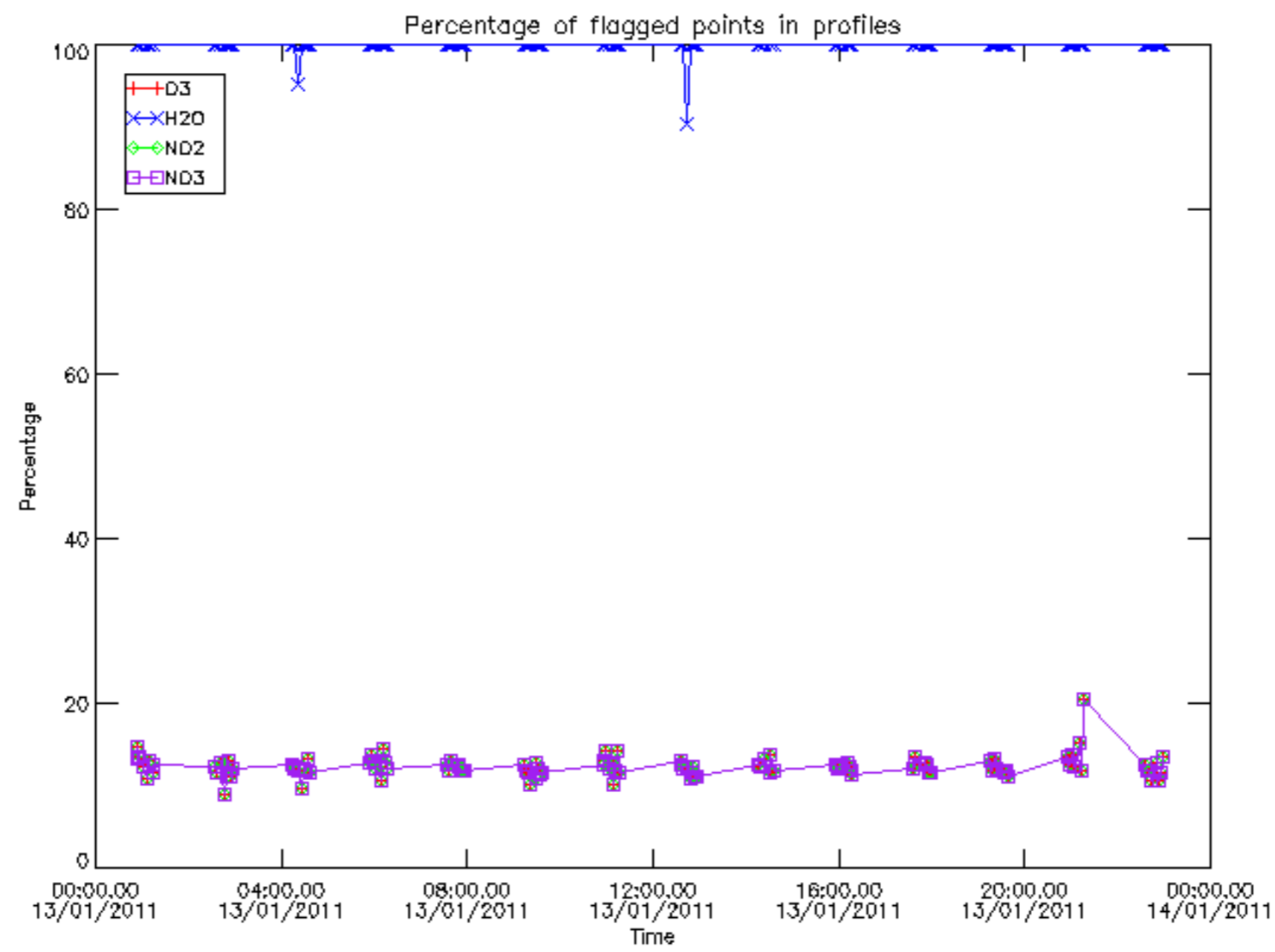
The colorbar represents the latitude.



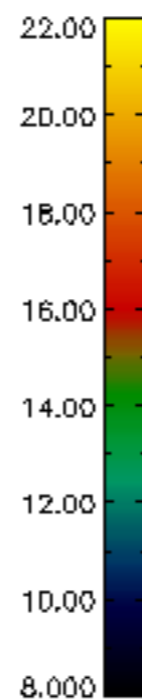
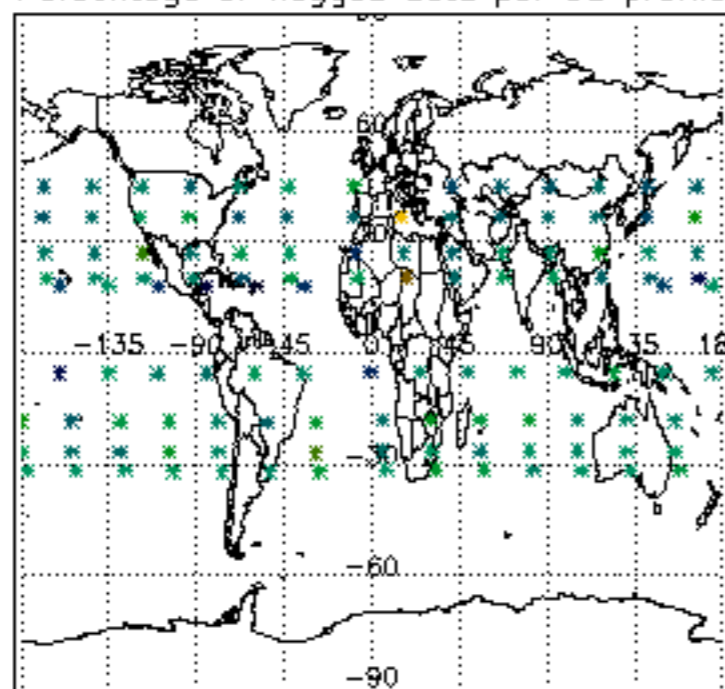
6. Auxiliary Data Files used for the production reported in section 2

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

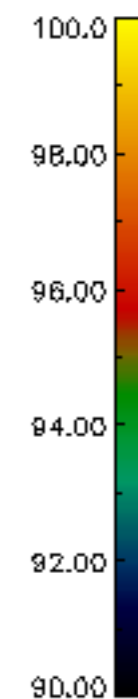
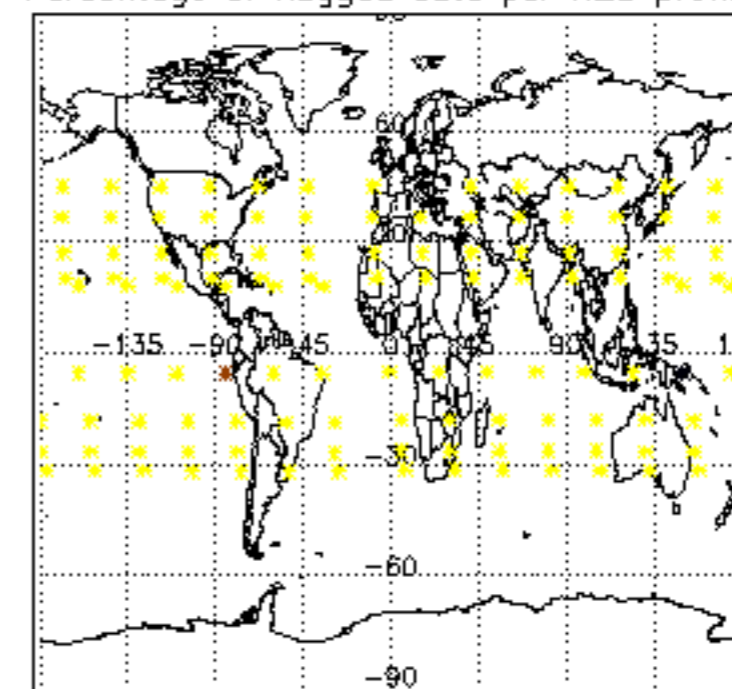
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	13-JAN-2011 00:00:48
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-JAN-2011 00:00:48
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-JAN-2011 00:00:48



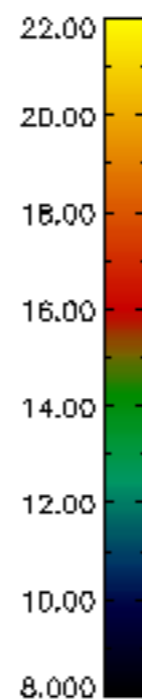
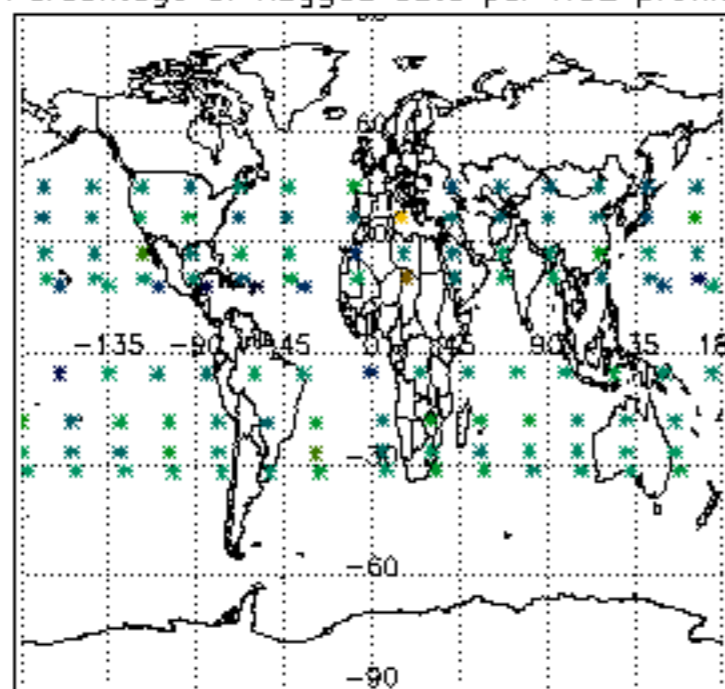
Percentage of flagged data per D3 profile



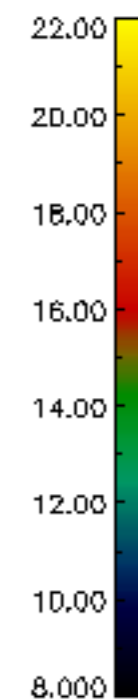
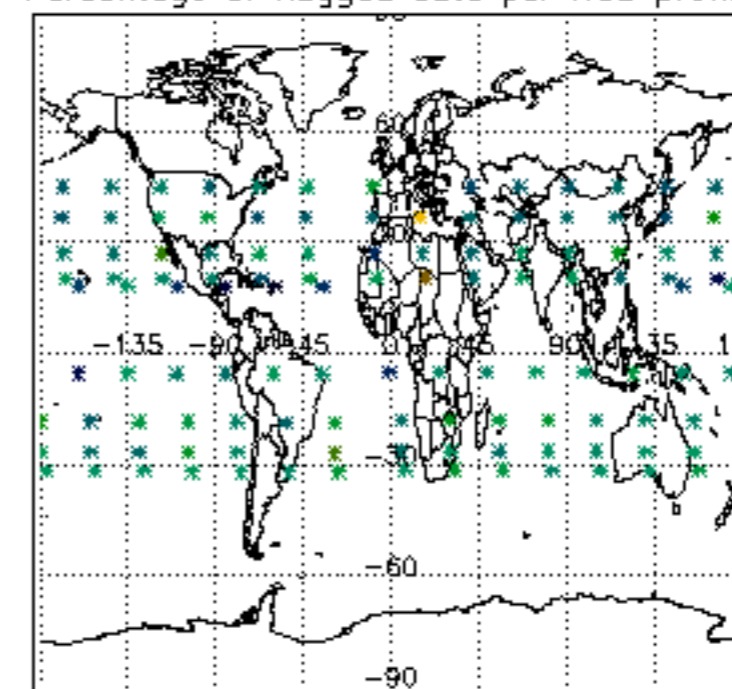
Percentage of flagged data per H2O profile

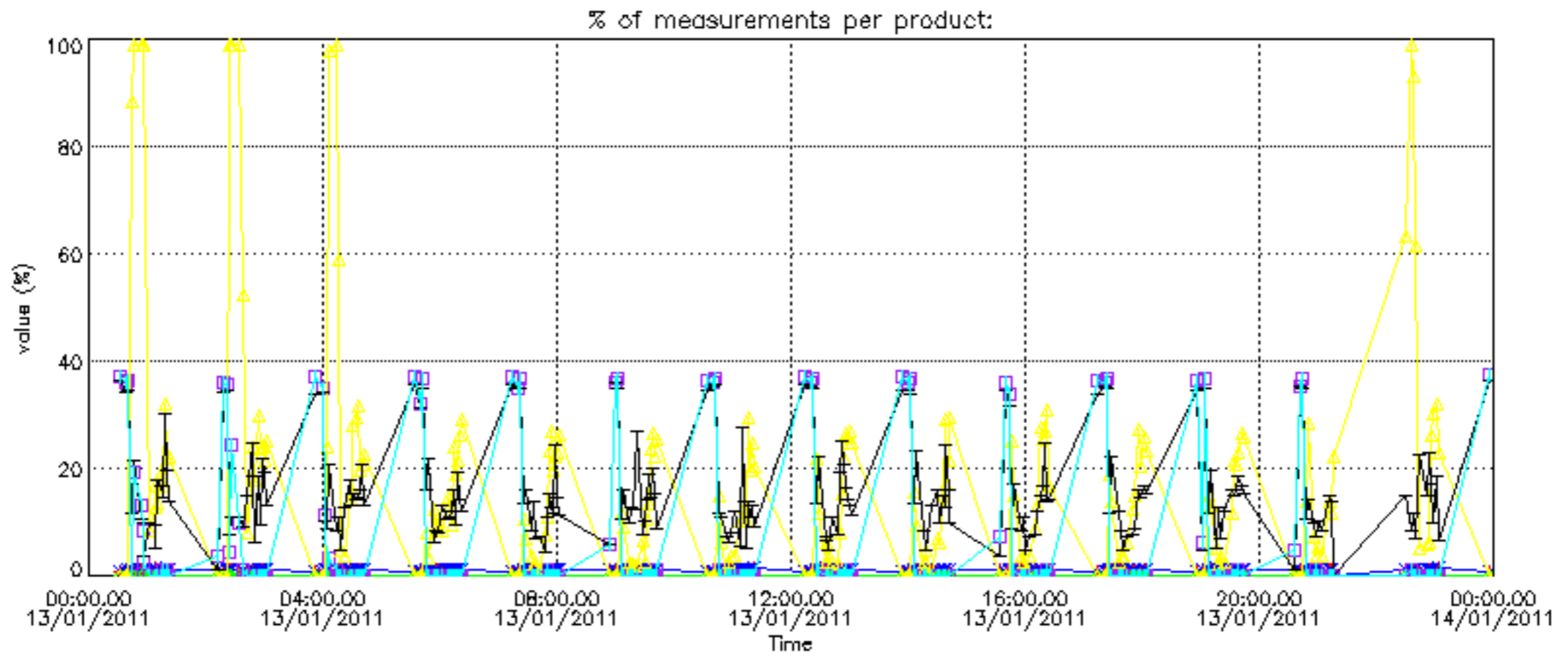


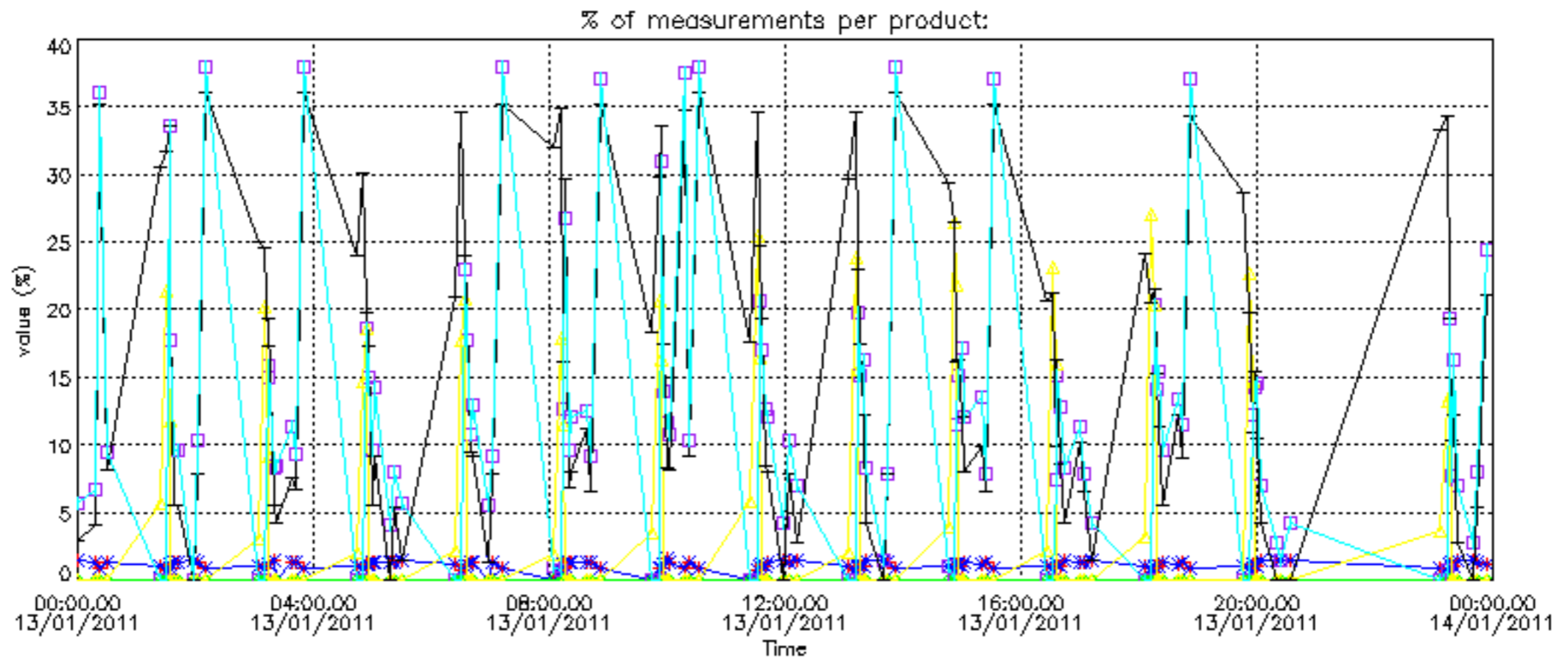
Percentage of flagged data per NO2 profile



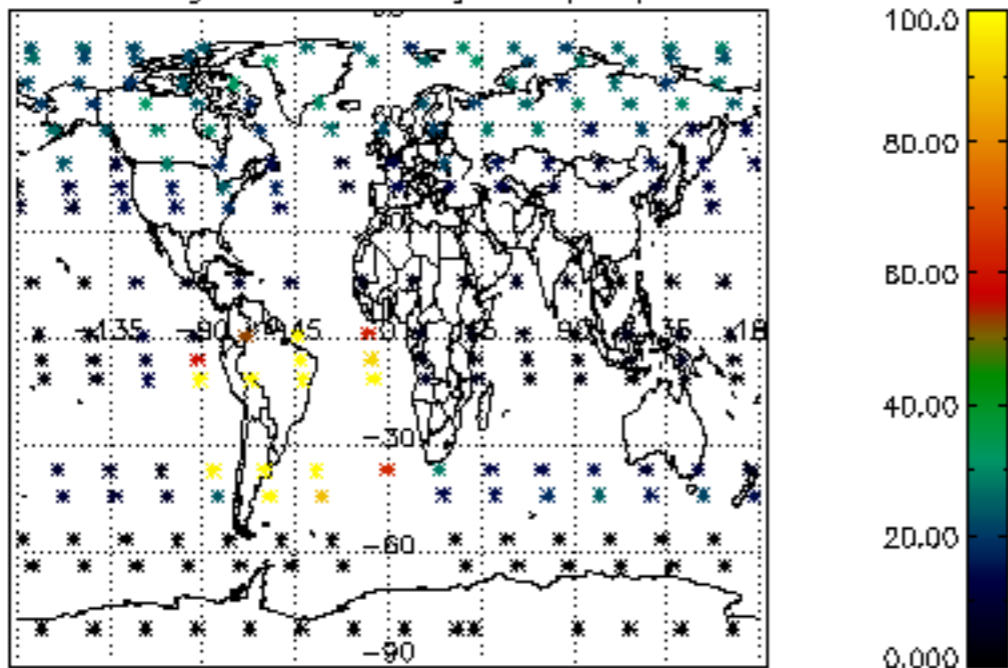
Percentage of flagged data per NO3 profile



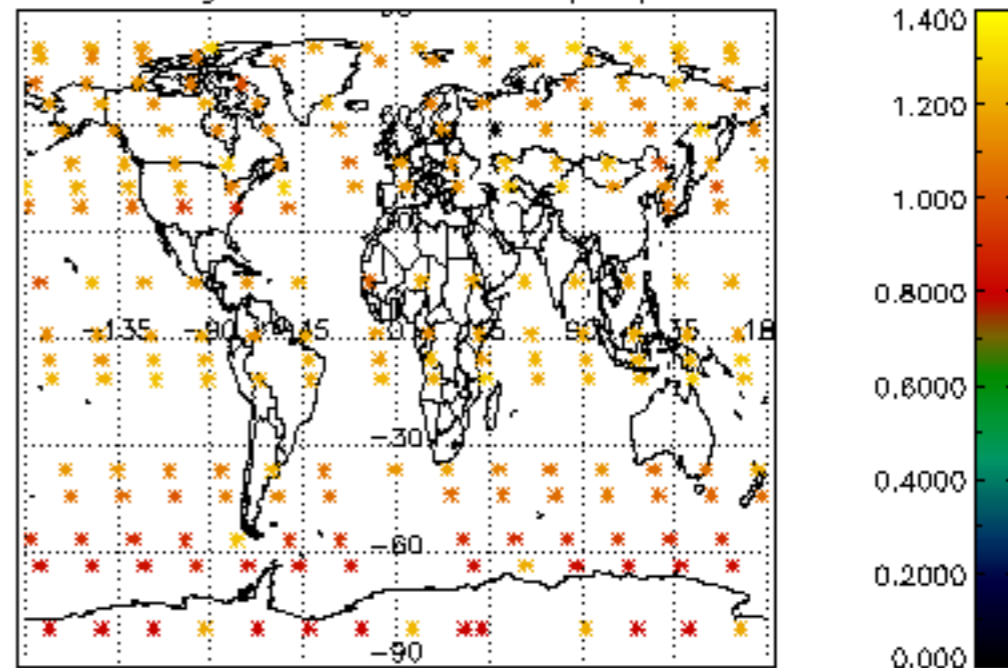




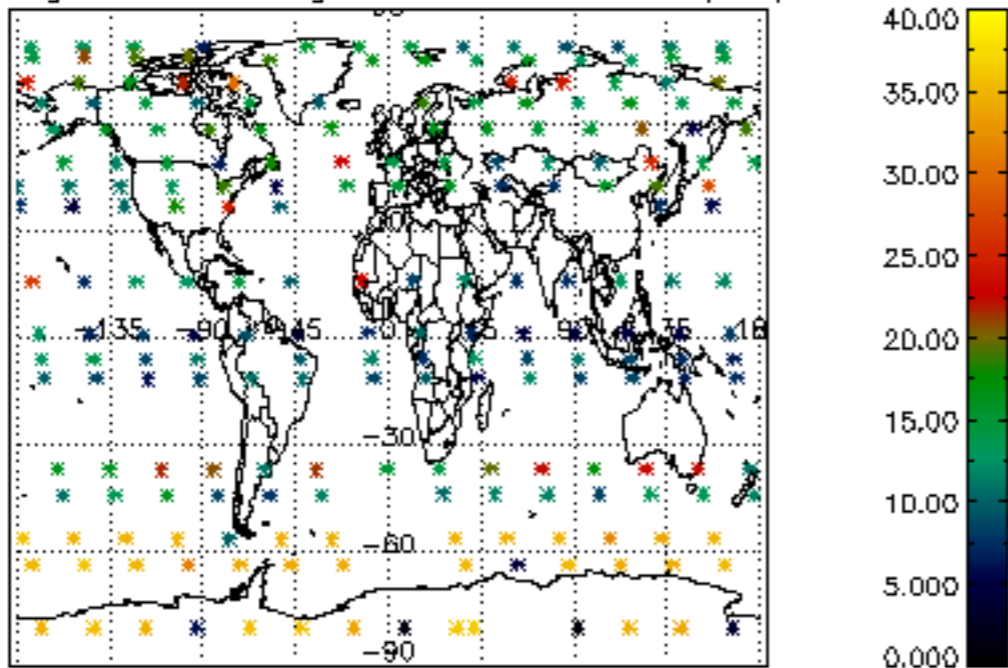
Percentage of cosmic ray hits per profile



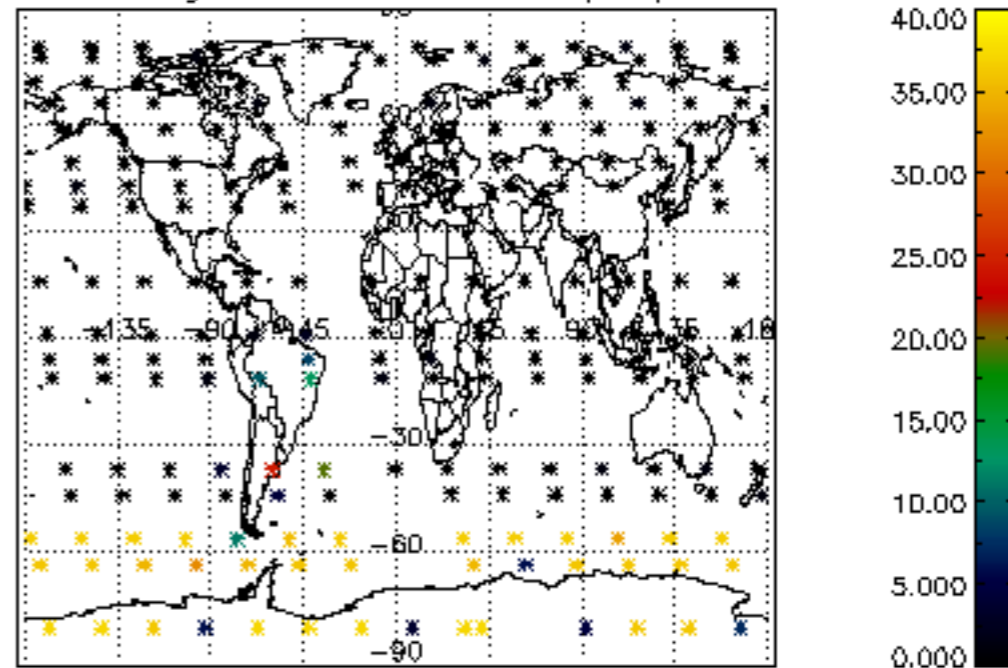
Percentage of datation errors per profile



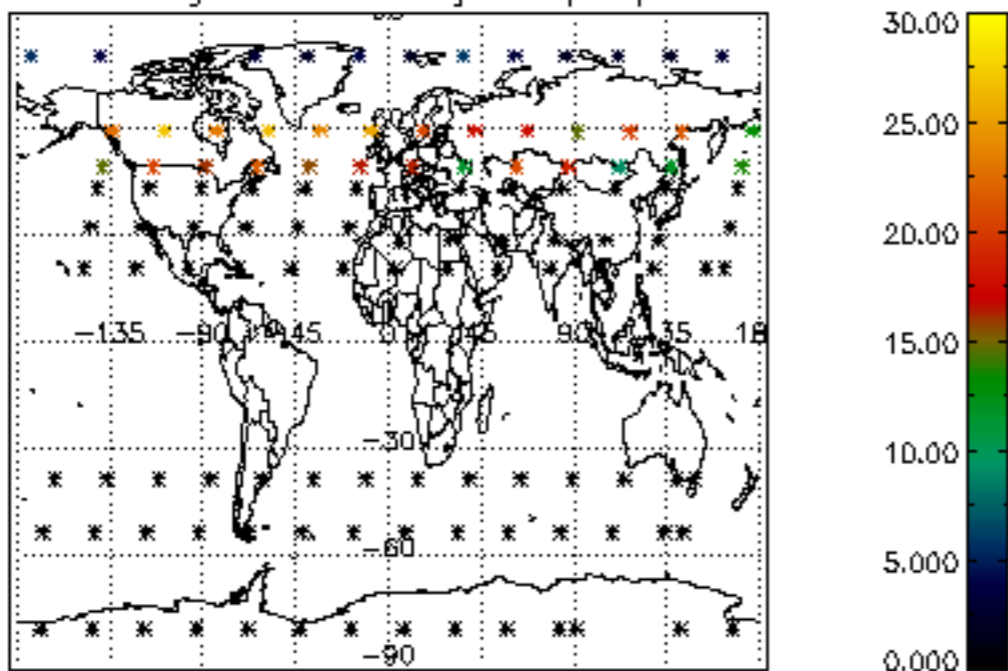
Percentage of star falling outside central band per profile



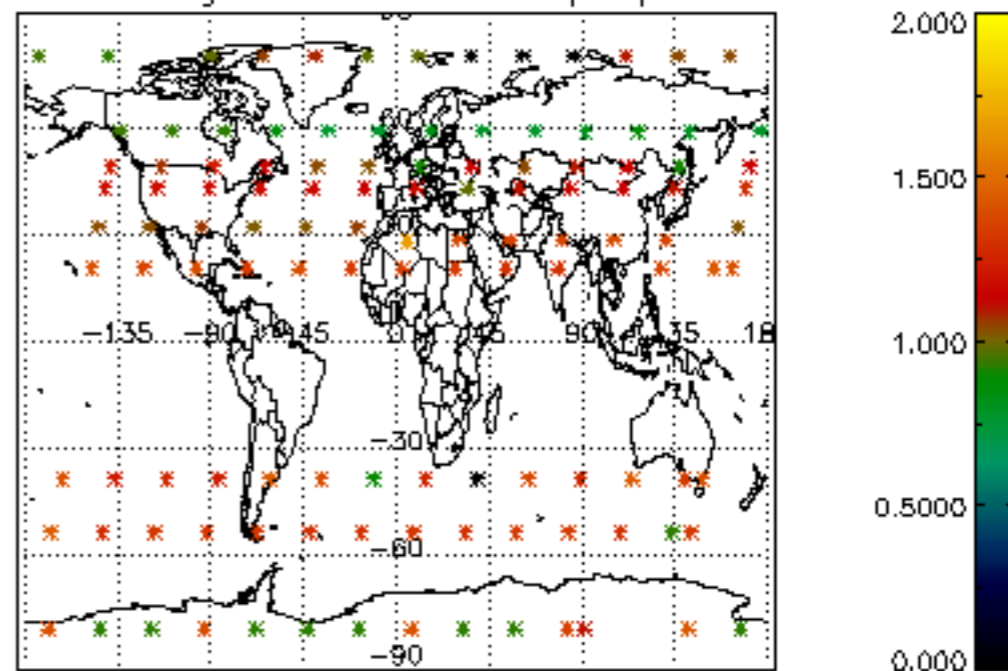
Percentage of saturation errors per profile



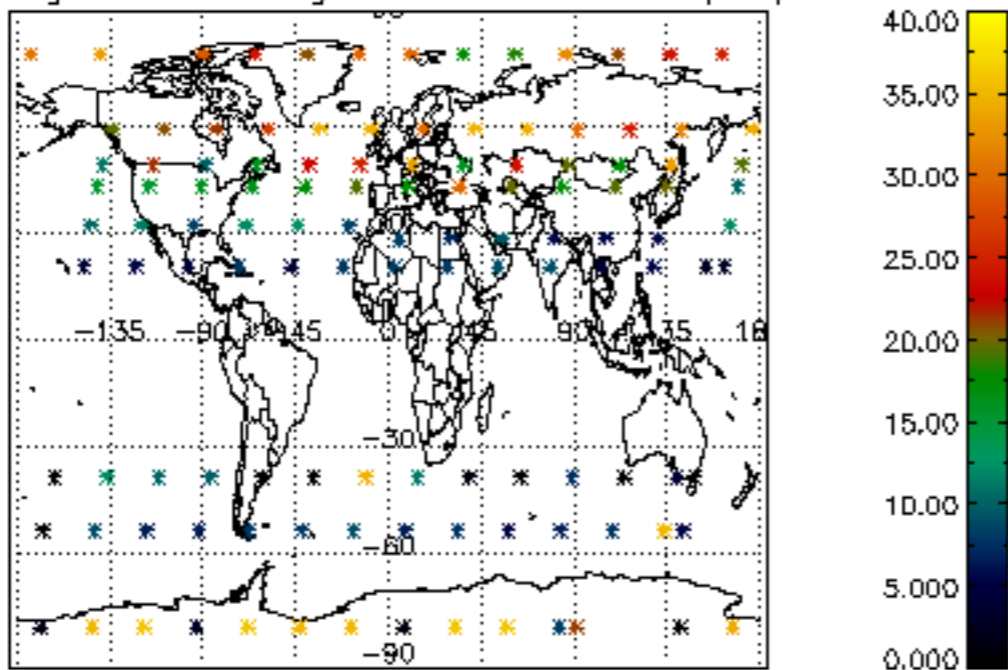
Percentage of cosmic ray hits per profile



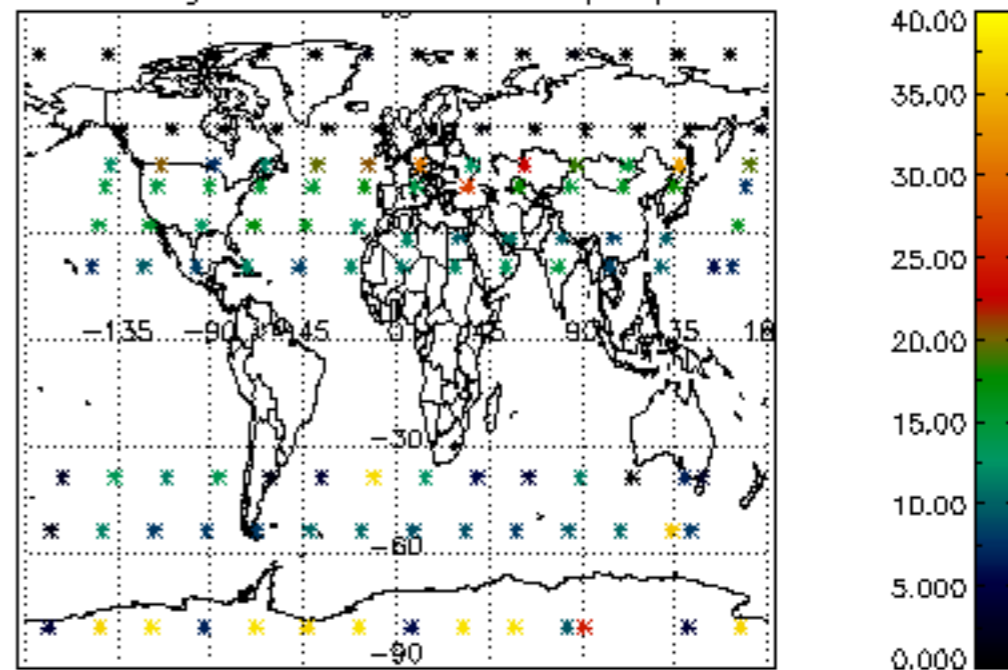
Percentage of datation errors per profile

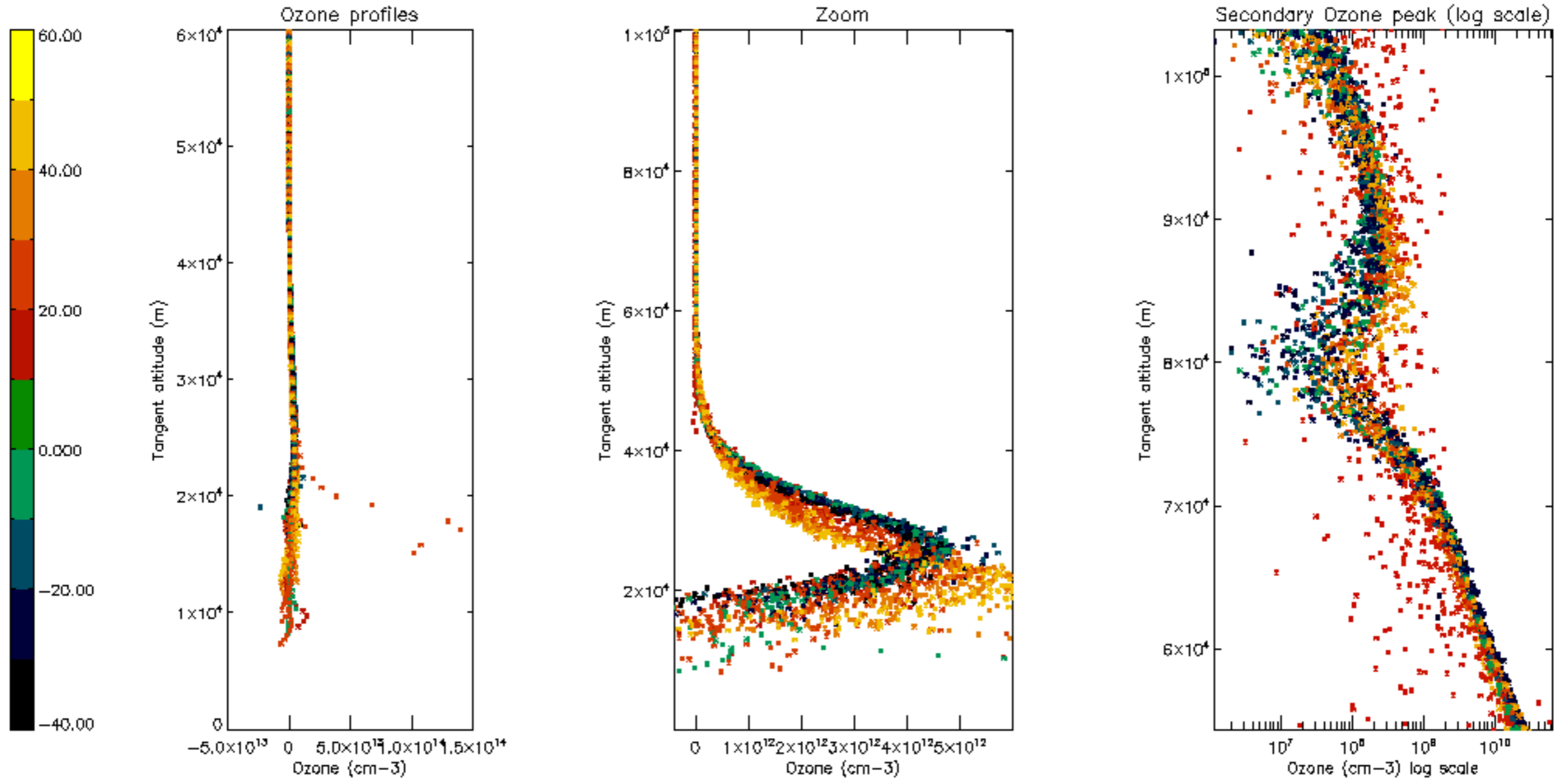


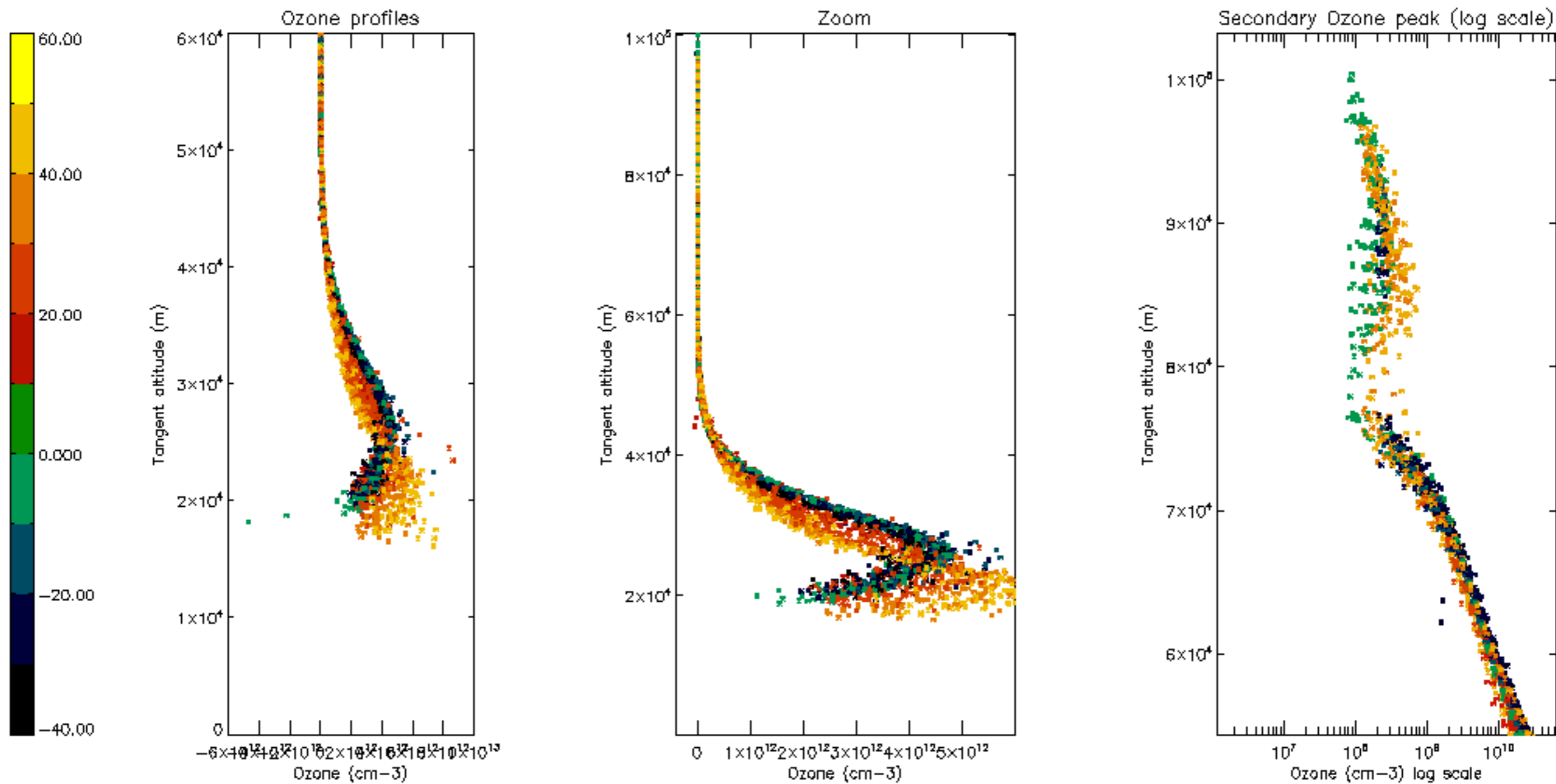
Percentage of star falling outside central band per profile

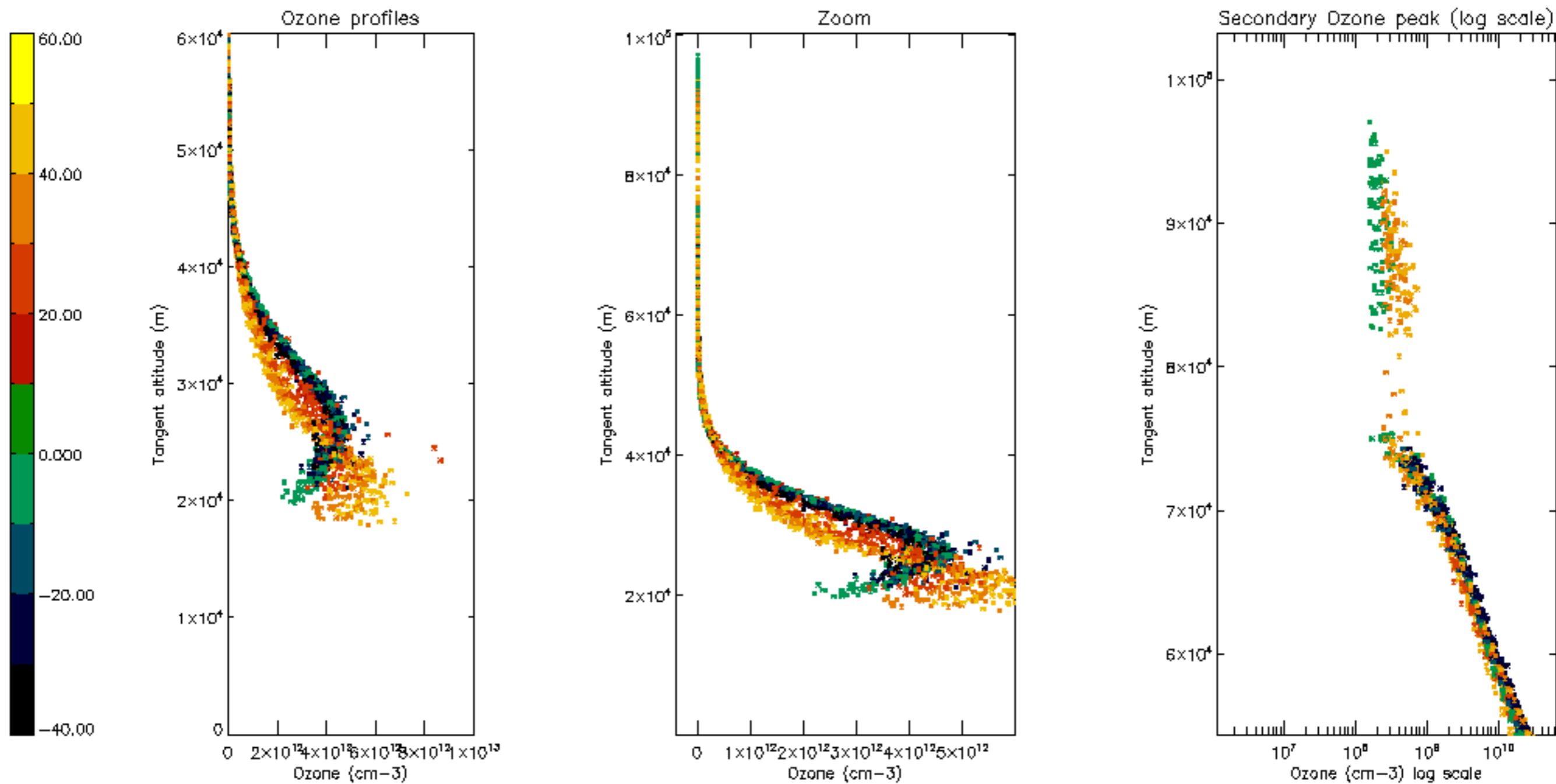


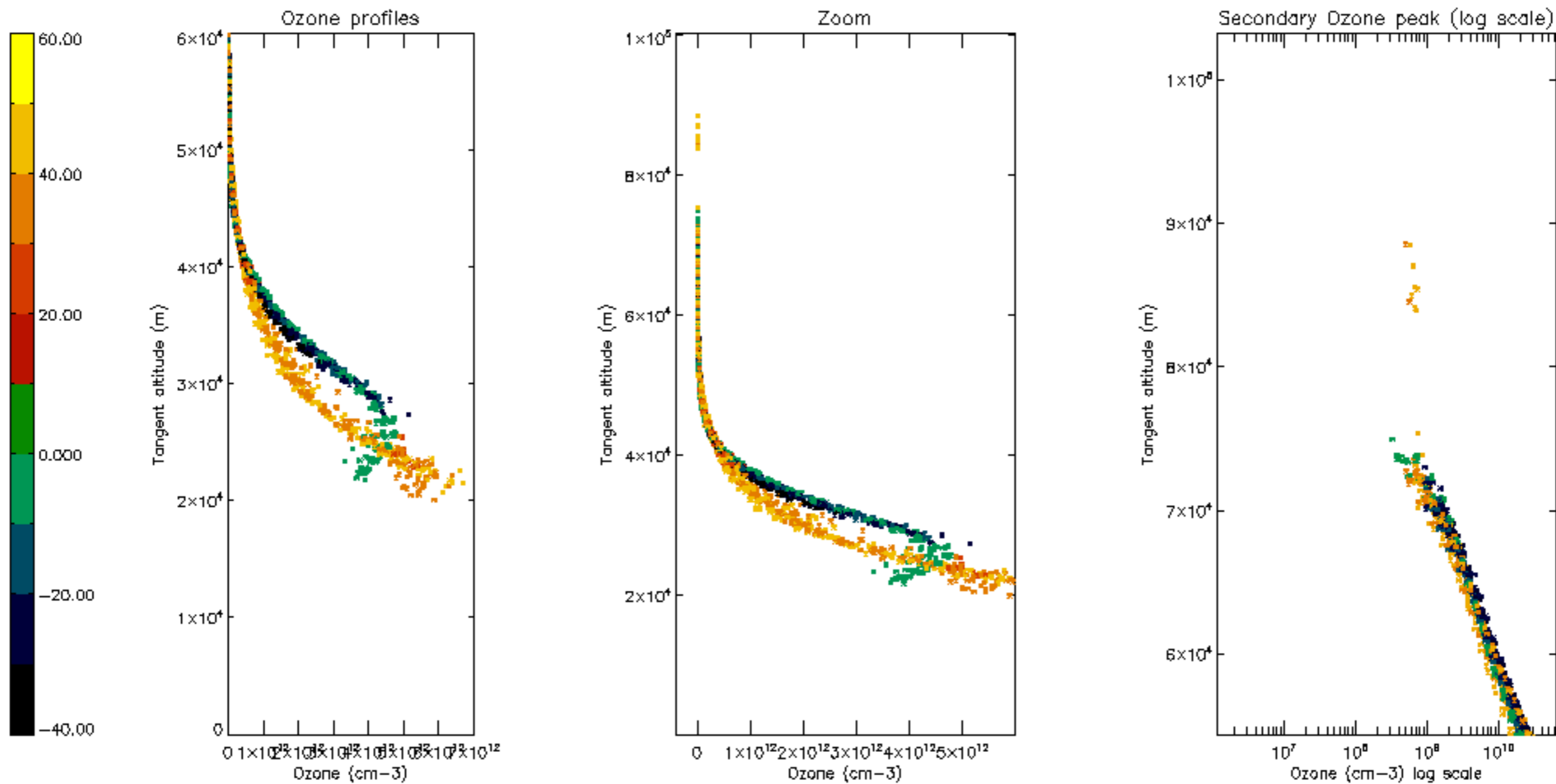
Percentage of saturation errors per profile

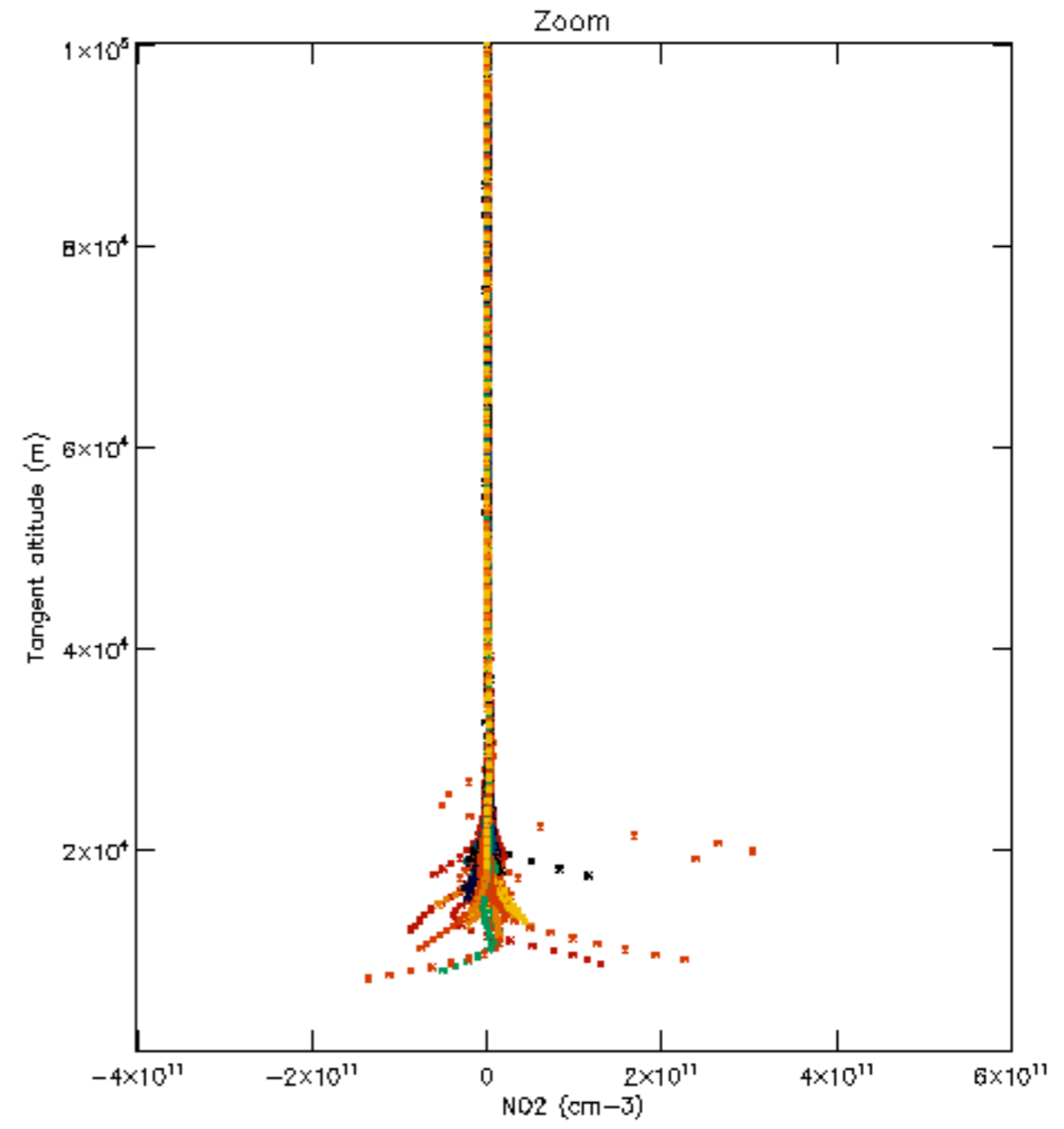
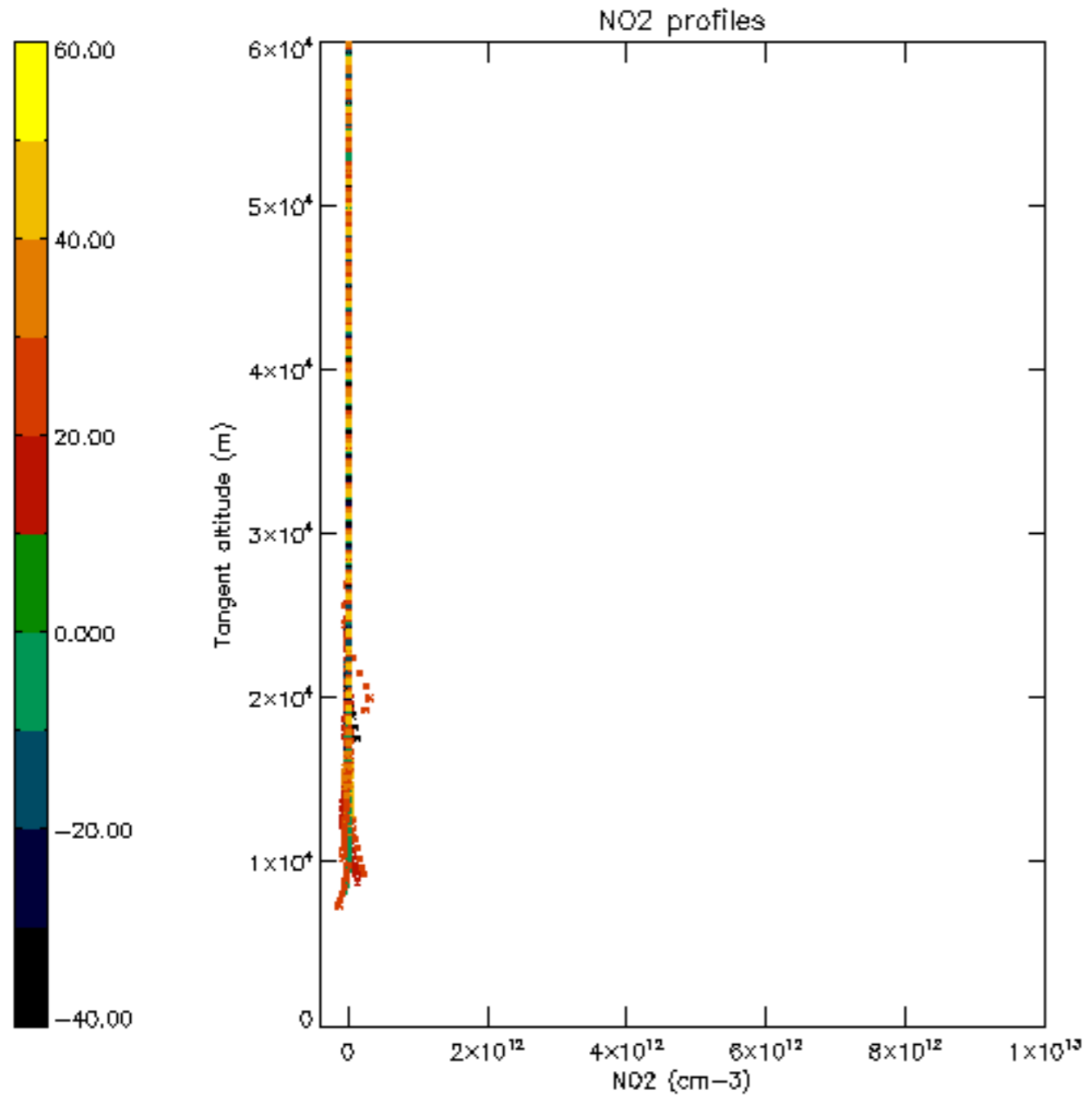


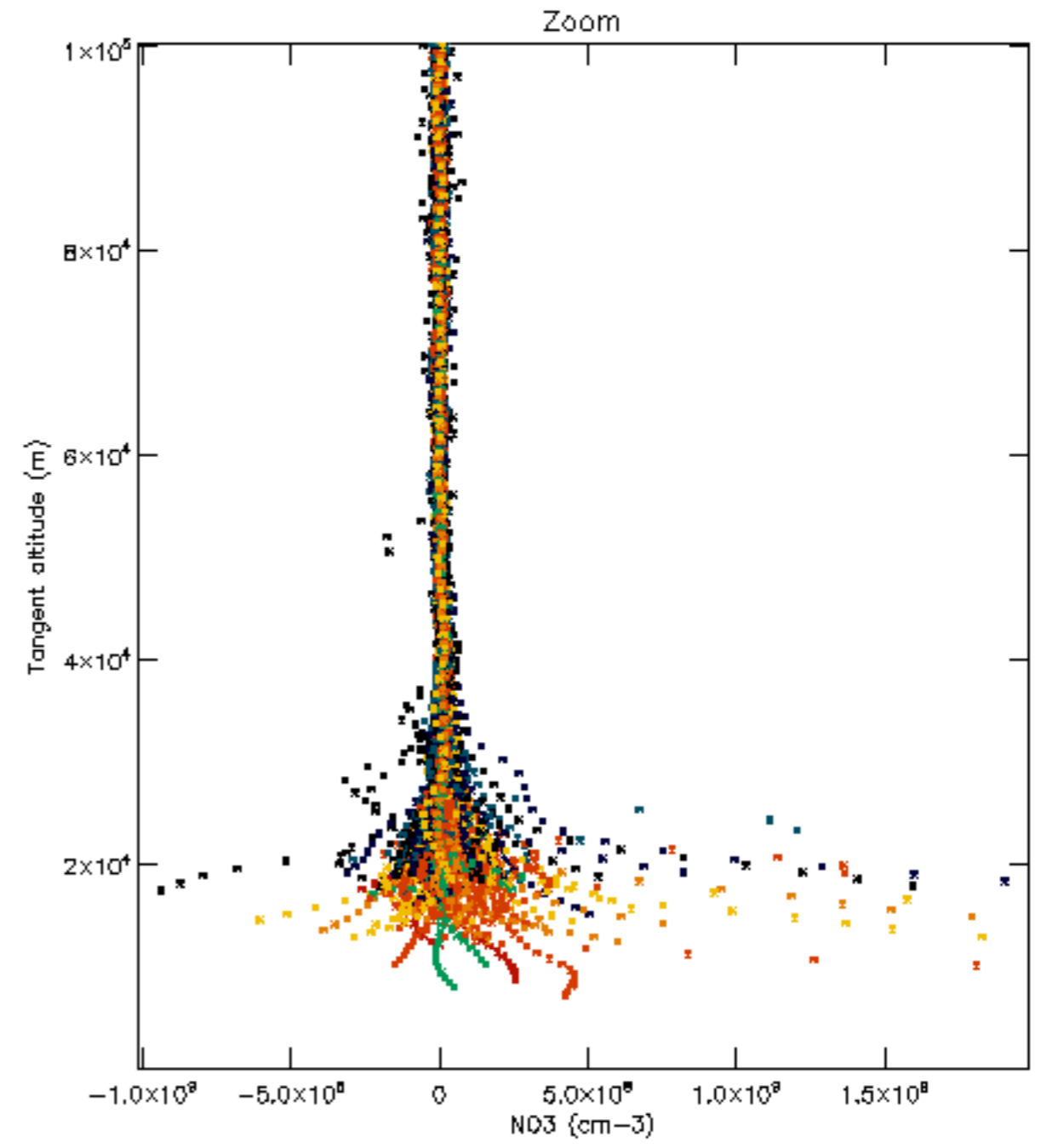
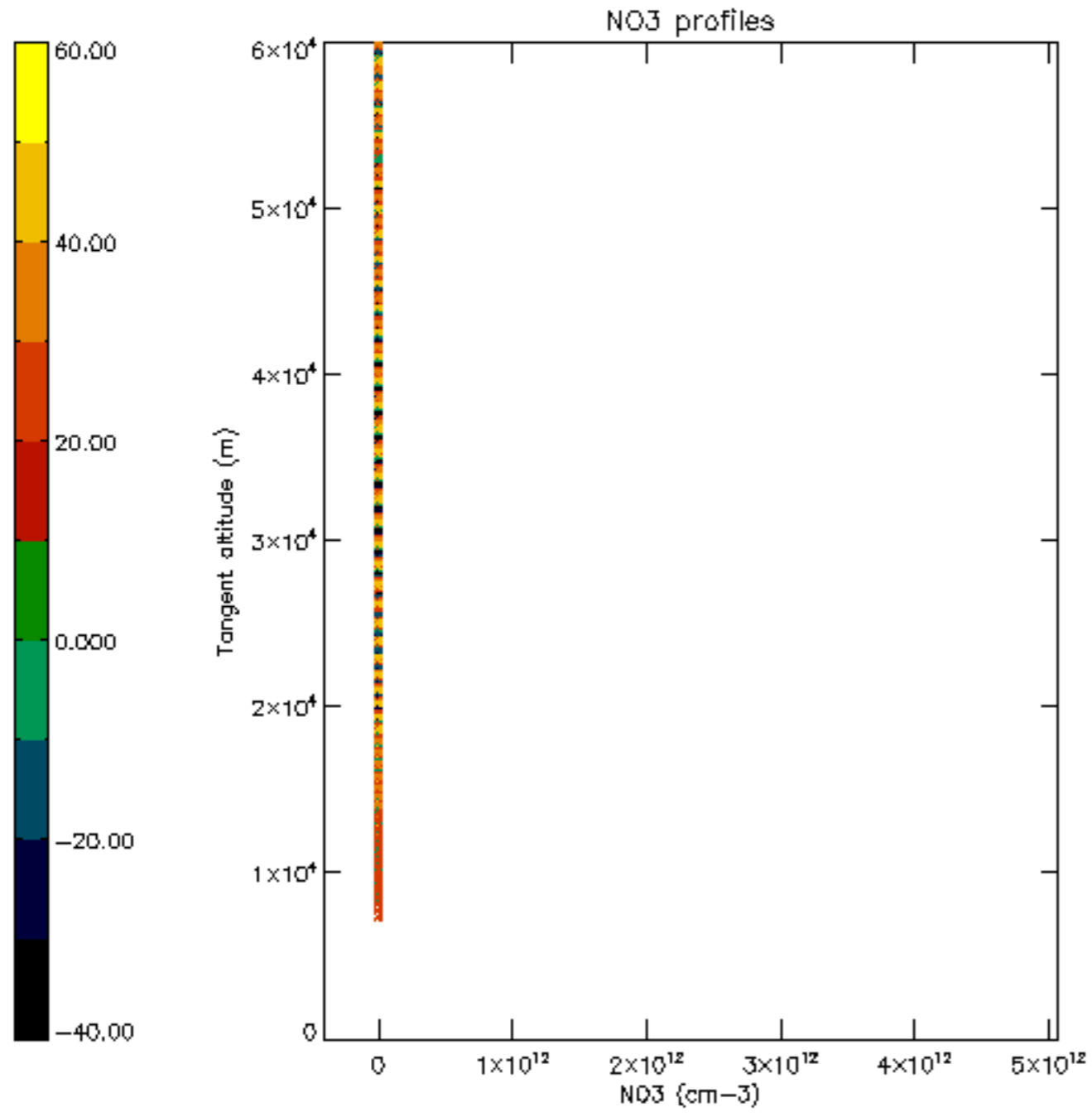


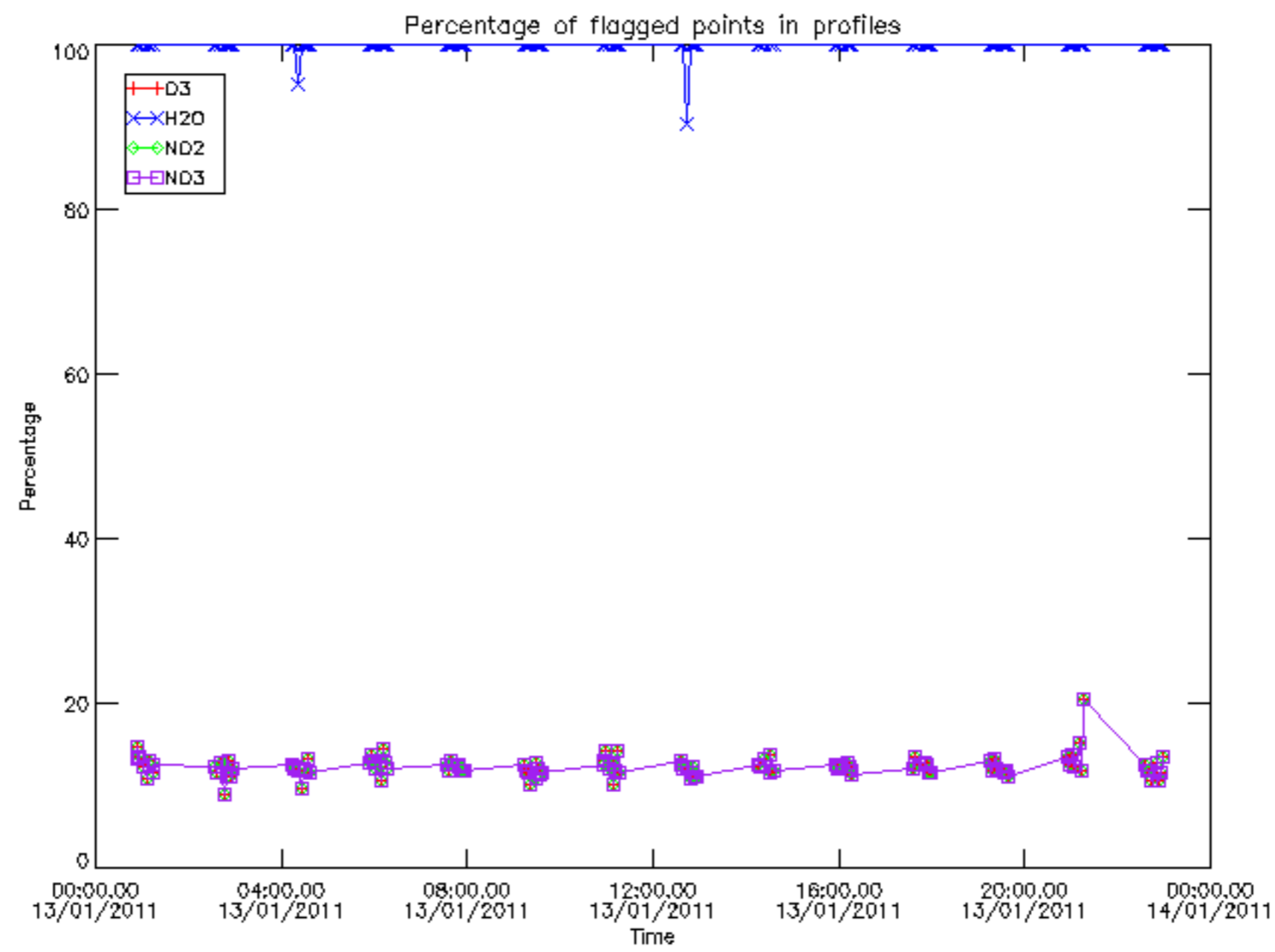




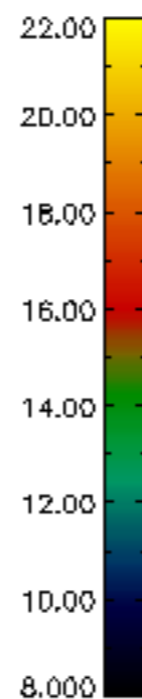
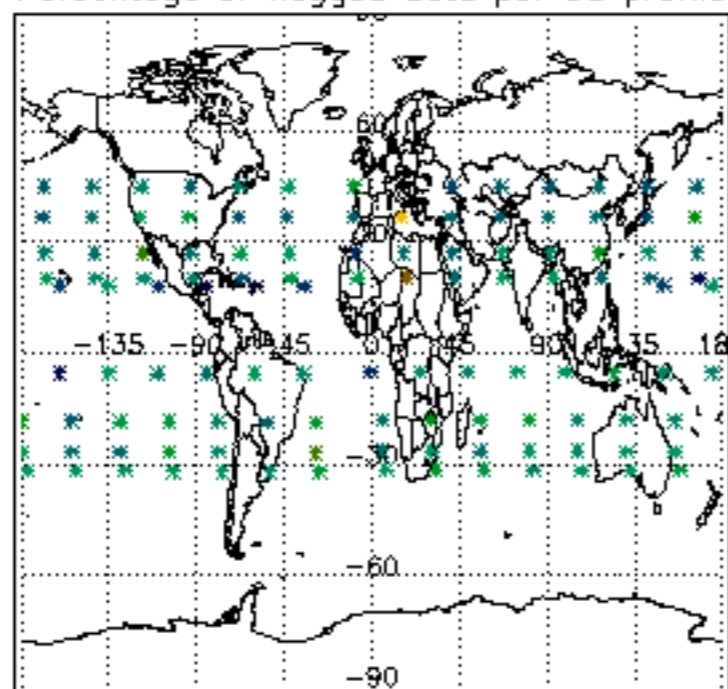




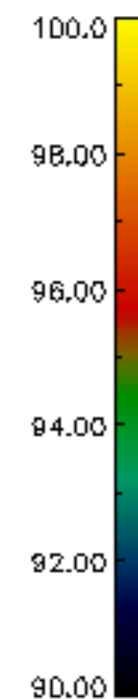
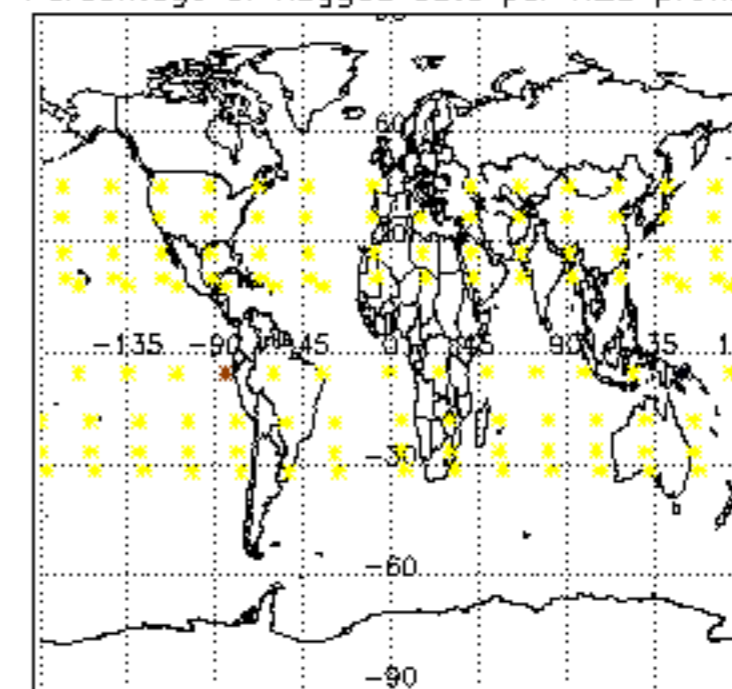




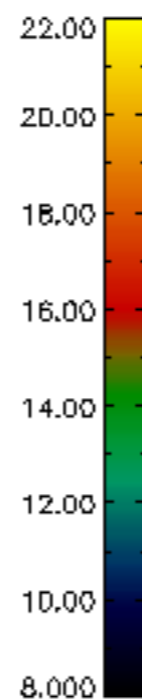
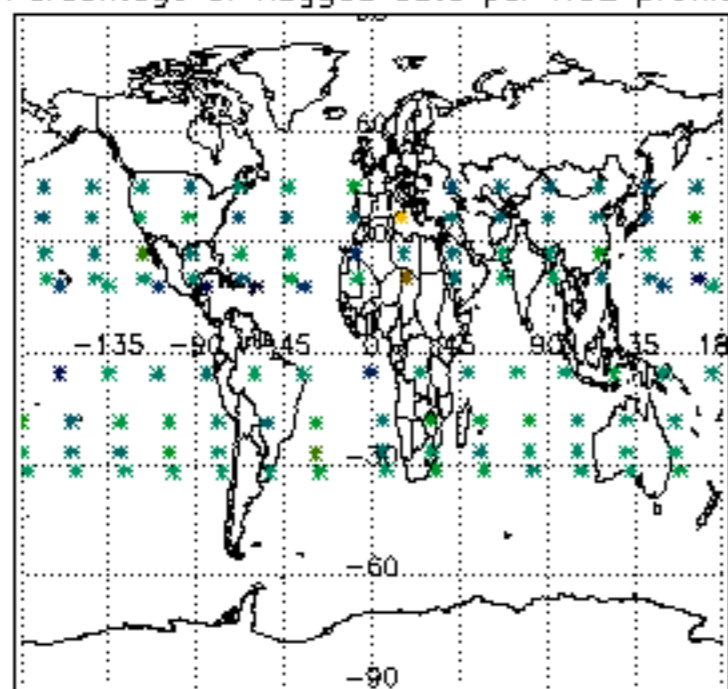
Percentage of flagged data per D3 profile



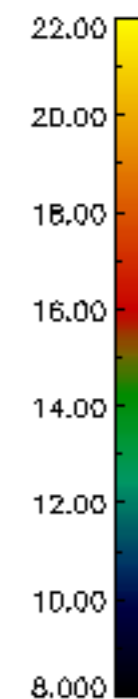
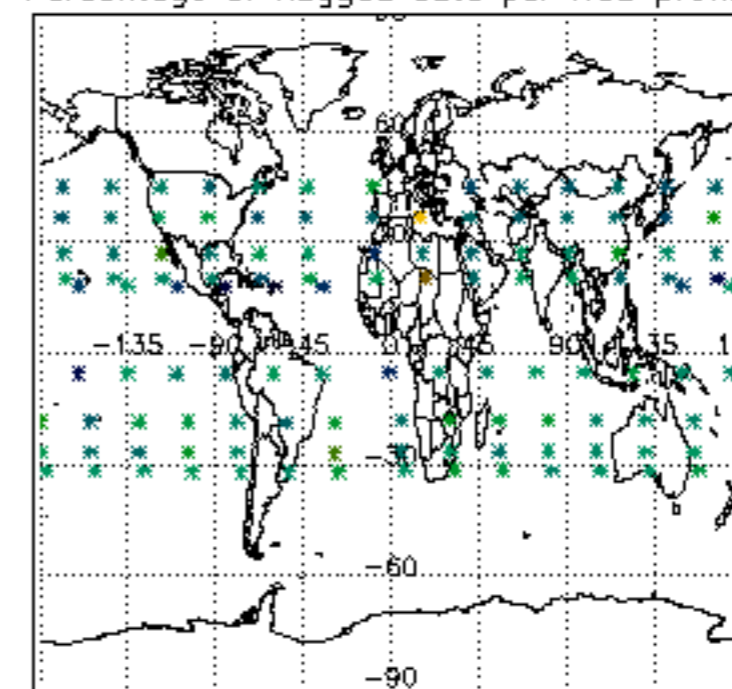
Percentage of flagged data per H2O profile

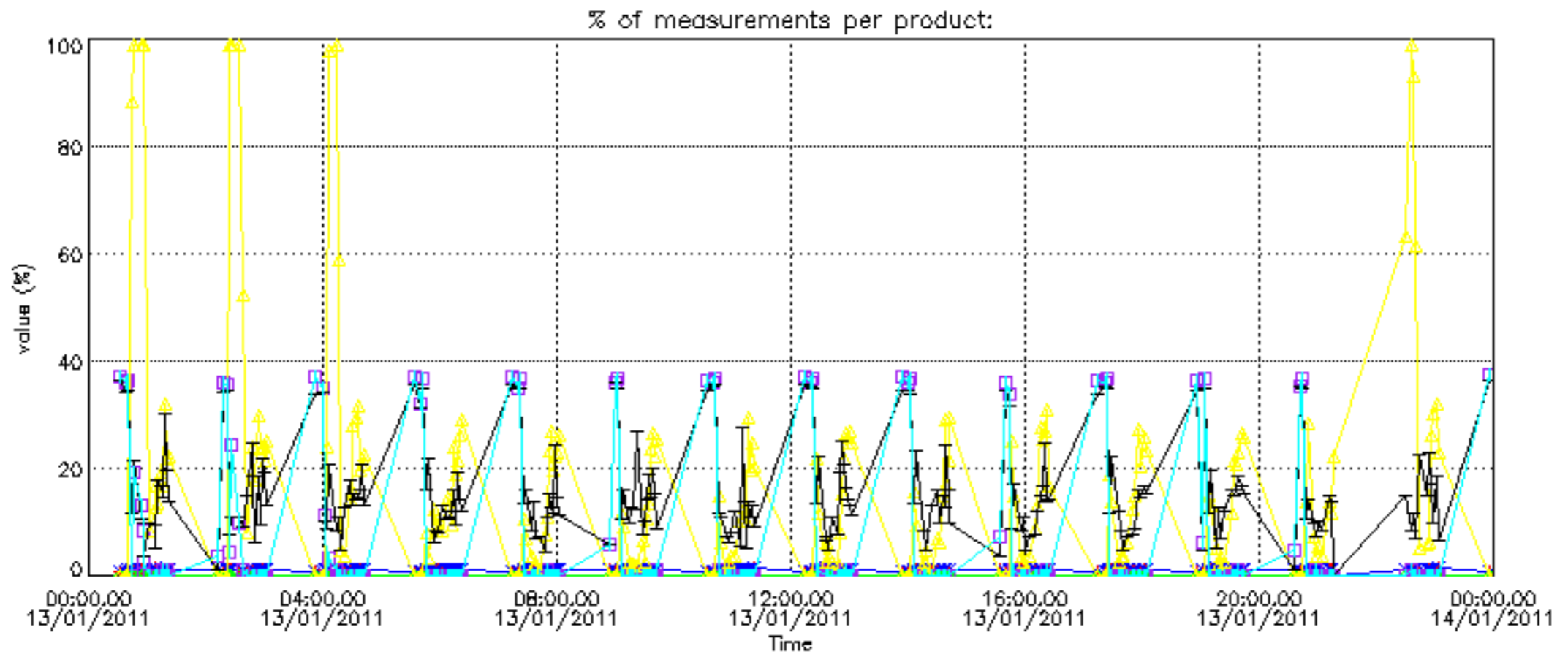


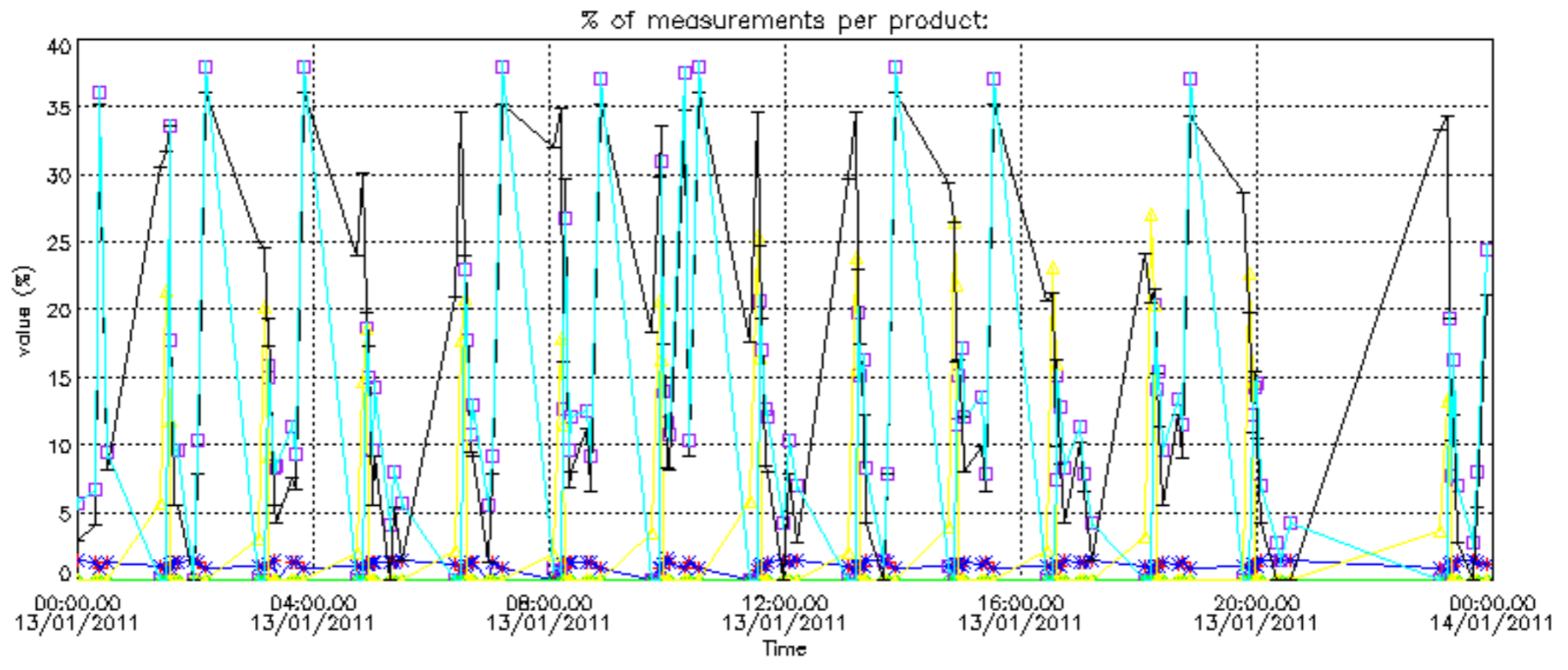
Percentage of flagged data per NO2 profile



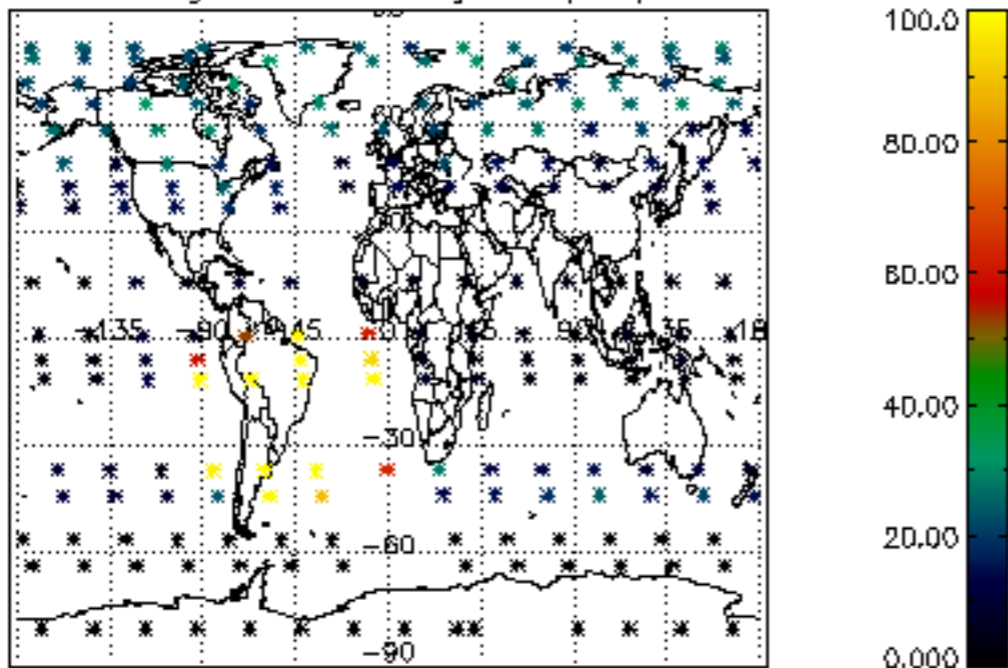
Percentage of flagged data per NO3 profile



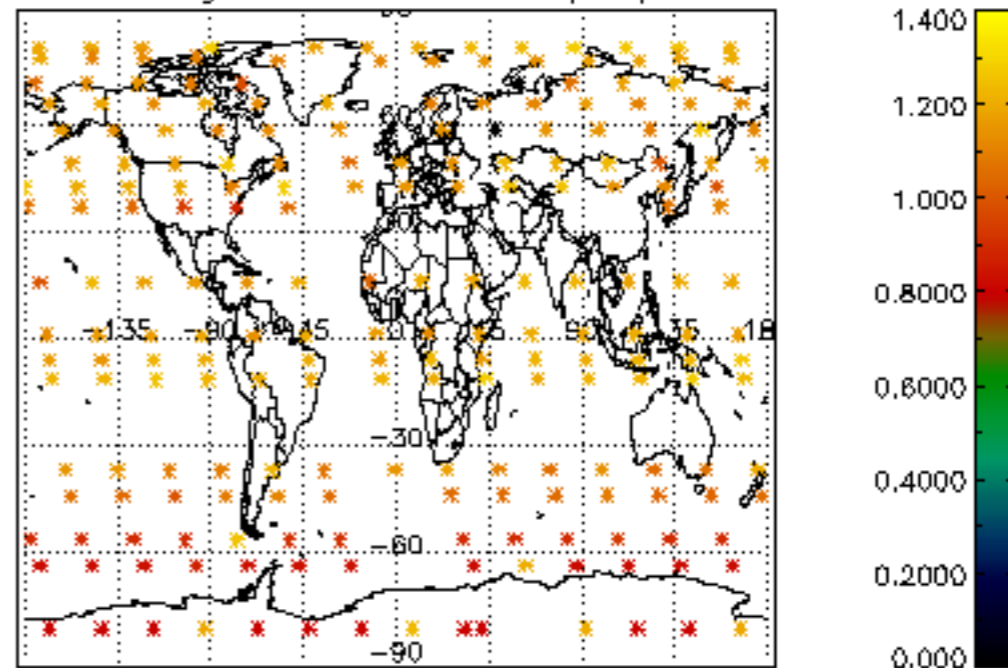




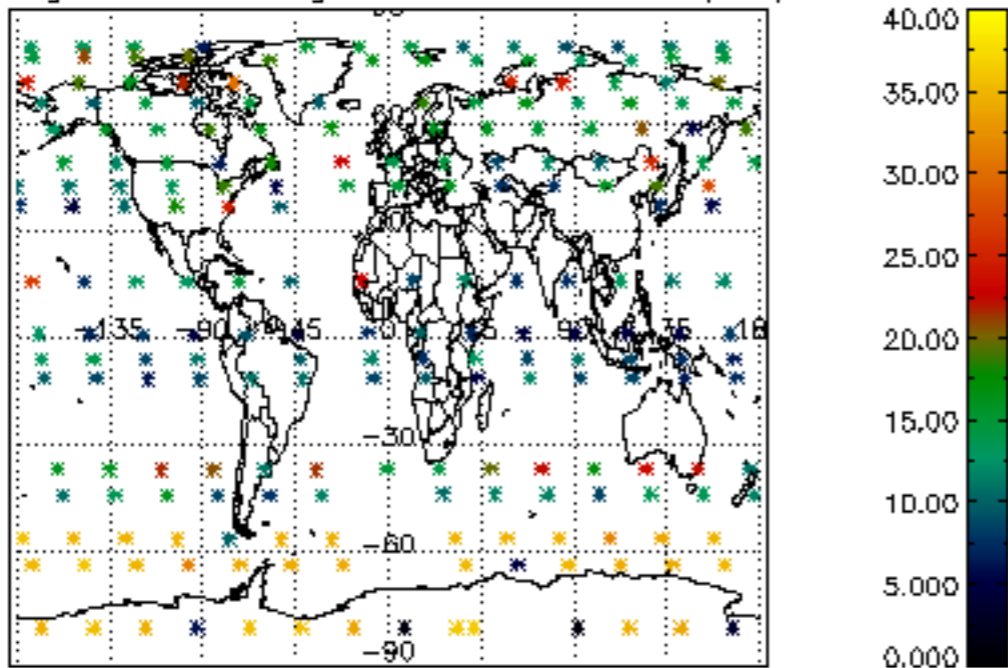
Percentage of cosmic ray hits per profile



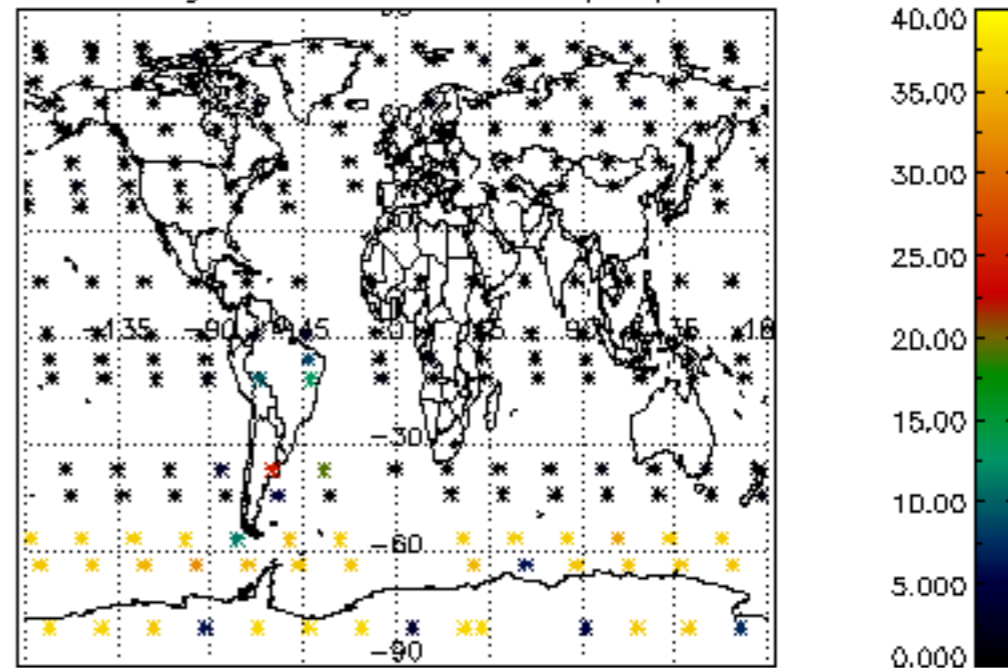
Percentage of datation errors per profile



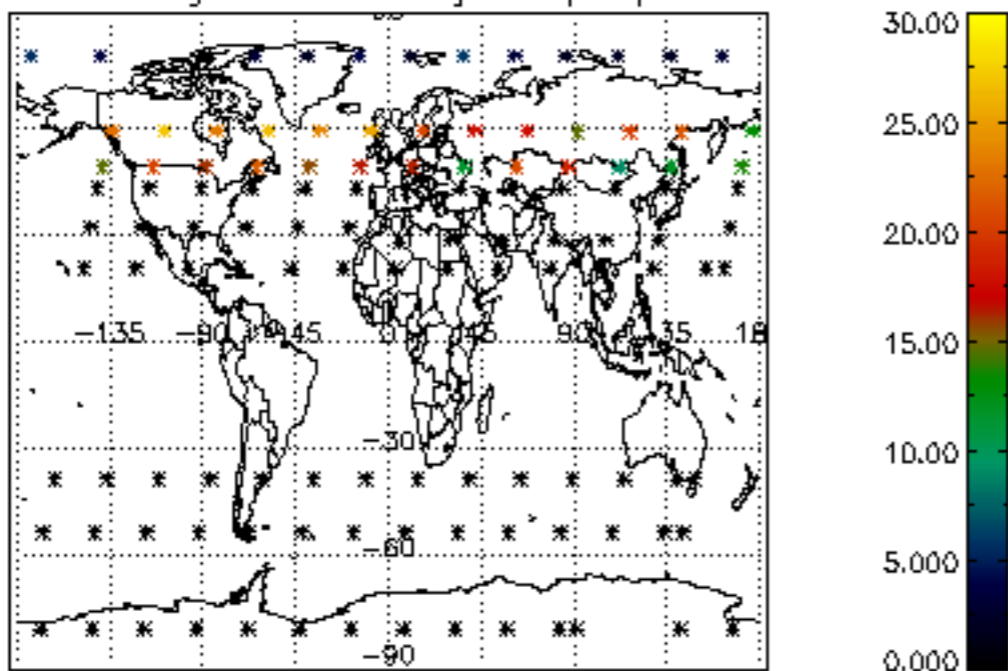
Percentage of star falling outside central band per profile



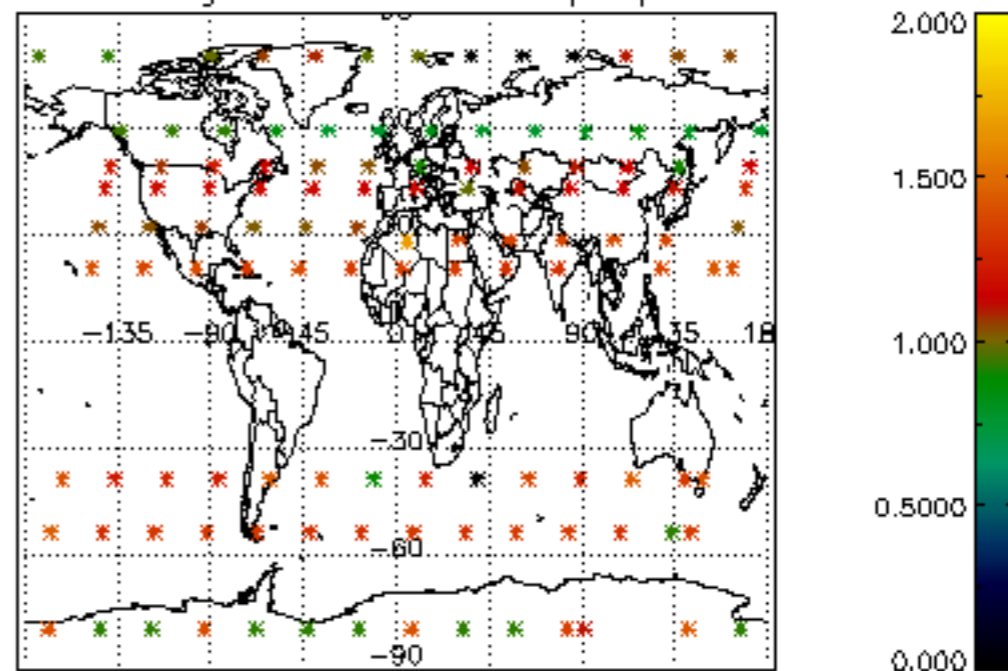
Percentage of saturation errors per profile



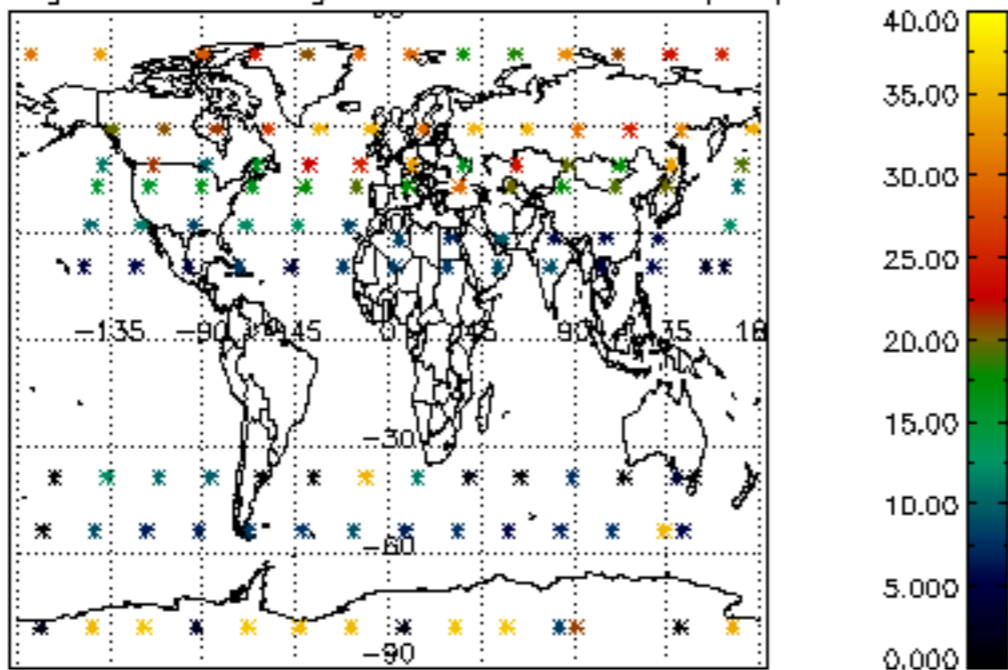
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

