

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 14:16:48
Data source version	GOMOS/6.01
Start time of products	01-06-2011 (01JUN2011 00:00:00)
Stop time of products	02-06-2011 (02JUN2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	334
Nb of prods with errors	0

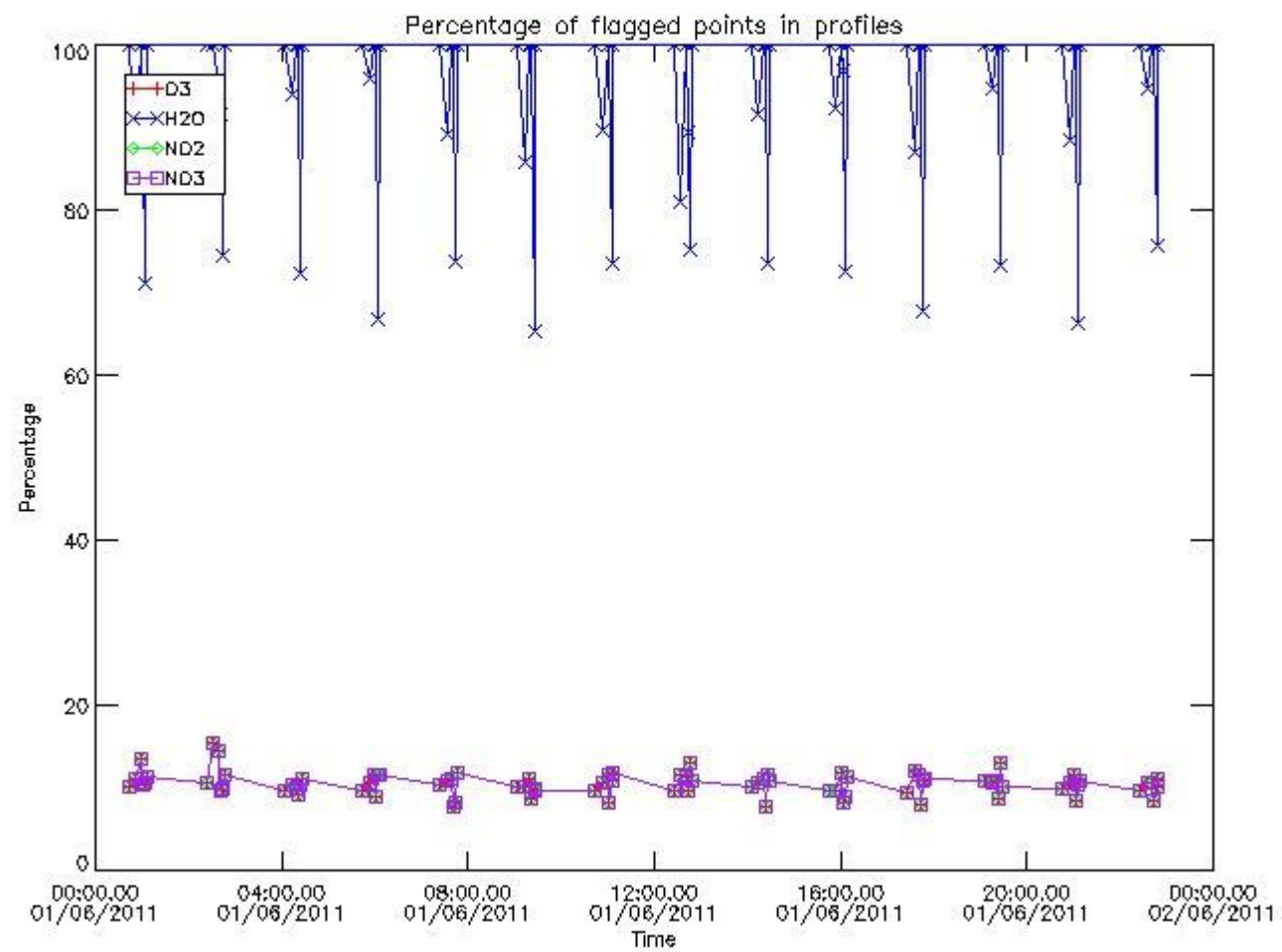
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110601_000049_000000433103_00088_48378_7969.N1	01-JUN-2011 00:00:49	Bright	42.500	127	27Bet Her	2.7810	4700.0	85	48378	No
2	GOM_NL__2PRFIN20110601_000413_000000443103_00088_48378_7970.N1	01-JUN-2011 00:04:13	Bright	43.500	133	40Zet Her	2.8070	6000.0	87	48378	No
3	GOM_NL__2PRFIN20110601_001209_000000393103_00088_48378_7971.N1	01-JUN-2011 00:12:09	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	48378	No
4	GOM_NL__2PRFIN20110601_002226_000000483103_00088_48378_7972.N1	01-JUN-2011 00:22:26	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	48378	No
5	GOM_NL__2PRFIN20110601_002732_000000533103_00088_48378_7973.N1	01-JUN-2011 00:27:32	Bright	52.500	76	27Gam Cas	2.3000	30000.	105	48378	No
6	GOM_NL__2PRFIN20110601_003517_000000493103_00088_48378_7974.N1	01-JUN-2011 00:35:17	Bright	48.500	53	43Bet And	2.0480	3300.0	97	48378	No
7	GOM_NL__2PRFIN20110601_003757_000000533103_00088_48378_7975.N1	01-JUN-2011 00:37:57	Twilight	53.000	58	21Alp And	2.0730	11000.	106	48378	No
8	GOM_NL__2PRFIN20110601_004256_000000513103_00088_48378_7976.N1	01-JUN-2011 00:42:56	Dark	50.500	140	88Gam Peg	2.8340	26000.	101	48378	No
9	GOM_NL__2PRFIN20110601_005156_000000513103_00088_48378_7977.N1	01-JUN-2011 00:51:56	Dark	50.500	52	16Bet Cet	2.0370	4500.0	101	48378	No
10	GOM_NL__2PRFIN20110601_005836_000000463103_00088_48378_7978.N1	01-JUN-2011 00:58:36	Dark	45.500	84	Alp Phe	2.3970	4500.0	91	48378	No
11	GOM_NL__2PRFIN20110601_010042_000000553103_00088_48378_7979.N1	01-JUN-2011 01:00:42	Dark	54.500	18	24Alp PsA	1.1660	9700.0	109	48378	No
12	GOM_NL__2PRFIN20110601_010357_000000583103_00089_48379_7965.N1	01-JUN-2011 01:03:57	Dark	57.500	63	Bet Gru	2.1500	2800.0	115	48379	No
13	GOM_NL__2PRFIN20110601_010550_000000453103_00089_48379_7966.N1	01-JUN-2011 01:05:50	Dark	45.000	31	Alp Gru	1.7340	15200.	90	48379	No
14	GOM_NL__2PRFIN20110601_011046_000000433103_00089_48379_7967.N1	01-JUN-2011 01:10:46	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	48379	No
15	GOM_NL__2PRFIN20110601_011808_000000433103_00089_48379_7968.N1	01-JUN-2011 01:18:08	Straylight	42.500	147	Alp Ara	2.8770	26000.	85	48379	No
16	GOM_NL__2PRFIN20110601_011949_000000473103_00089_48379_7969.N1	01-JUN-2011 01:19:49	Straylight	46.500	40	The Sco	1.8590	7100.0	93	48379	No
17	GOM_NL__2PRFIN20110601_012137_000000473103_00089_48379_7970.N1	01-JUN-2011 01:21:37	Twilight	46.500	25	35Lam Sco	1.6200	28000.	93	48379	No
18	GOM_NL__2PRFIN20110601_012321_000000463103_00089_48379_7971.N1	01-JUN-2011 01:23:21	Twilight	45.500	75	26Eps Sco	2.2910	4250.0	91	48379	No
19	GOM_NL__2PRFIN20110601_012523_000000513103_00089_48379_7972.N1	01-JUN-2011 01:25:23	Bright	51.000	136	23Tau Sco	2.8220	30000.	102	48379	No
20	GOM_NL__2PRFIN20110601_012727_000000413103_00089_48379_7973.N1	01-JUN-2011 01:27:27	Bright	41.000	80	7Del Sco	2.3160	30000.	82	48379	No
21	GOM_NL__2PRFIN20110601_012858_000000463103_00089_48379_7974.N1	01-JUN-2011 01:28:58	Bright	46.000	86	35Eta Oph	2.4300	10200.	92	48379	No
22	GOM_NL__2PRFIN20110601_013049_000000433103_00089_48379_7975.N1	01-JUN-2011 01:30:49	Bright	43.000	98	13Zet Oph	2.5710	30000.	86	48379	No
23	GOM_NL__2PRFIN20110601_013300_000000403103_00089_48379_7976.N1	01-JUN-2011 01:33:00	Bright	39.500	120	1Del Oph	2.7340	3200.0	79	48379	No
24	GOM_NL__2PRFIN20110601_013600_000000373103_00089_48379_7977.N1	01-JUN-2011 01:36:00	Bright	37.000	102	24Alp Ser	2.6000	4250.0	74	48379	No
25	GOM_NL__2PRFIN20110601_014102_000000443103_00089_48379_7978.N1	01-JUN-2011 01:41:02	Bright	44.000	127	27Bet Her	2.7810	4700.0	88	48379	No
26	GOM_NL__2PRFIN20110601_014426_000000443103_00089_48379_7979.N1	01-JUN-2011 01:44:26	Bright	44.000	133	40Zet Her	2.8070	6000.0	88	48379	No
27	GOM_NL__2PRFIN20110601_015223_000000393103_00089_48379_7980.N1	01-JUN-2011 01:52:23	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	48379	No
28	GOM_NL__2PRFIN20110601_020240_000000493103_00089_48379_7981.N1	01-JUN-2011 02:02:40	Bright	48.500	89	5Alp Cep	2.4510	8000.0	97	48379	No
29	GOM_NL__2PRFIN20110601_020746_000000383103_00089_48379_7982.N1	01-JUN-2011 02:07:46	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	48379	No
30	GOM_NL__2PRFIN20110601_021531_000000433103_00089_48379_7983.N1	01-JUN-2011 02:15:31	Bright	43.000	53	43Bet And	2.0480	3300.0	86	48379	No
31	GOM_NL__2PRFIN20110601_021812_000000553103_00089_48379_7984.N1	01-JUN-2011 02:18:12	Twilight	55.000	58	21Alp And	2.0730	11000.	110	48379	No
32	GOM_NL__2PRFIN20110601_022311_000000523103_00089_48379_7985.N1	01-JUN-2011 02:23:11	Dark	52.000	140	88Gam Peg	2.8340	26000.	104	48379	No
33	GOM_NL__2PRFIN20110601_023211_000000533103_00089_48379_7986.N1	01-JUN-2011 02:32:11	Dark	53.000	52	16Bet Cet	2.0370	4500.0	106	48379	No
34	GOM_NL__2PRFIN20110601_023851_000000493103_00089_48379_7987.N1	01-JUN-2011 02:38:51	Dark	49.000	84	Alp Phe	2.3970	4500.0	98	48379	No
35	GOM_NL__2PRFIN20110601_024057_000000543103_00089_48379_7988.N1	01-JUN-2011 02:40:57	Dark	53.500	18	24Alp PsA	1.1660	9700.0	107	48379	No
36	GOM_NL__2PRFIN20110601_024412_000000523103_00090_48380_7974.N1	01-JUN-2011 02:44:12	Dark	51.500	63	Bet Gru	2.1500	2800.0	103	48380	No
37	GOM_NL__2PRFIN20110601_024605_000000453103_00090_48380_7975.N1	01-JUN-2011 02:46:05	Dark	44.500	31	Alp Gru	1.7340	15200.	89	48380	No
38	GOM_NL__2PRFIN20110601_025100_000000433103_00090_48380_7976.N1	01-JUN-2011 02:51:00	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	48380	No
39	GOM_NL__2PRFIN20110601_025823_000000413103_00090_48380_7977.N1	01-JUN-2011 02:58:23	Straylight	40.500	147	Alp Ara	2.8770	26000.	81	48380	No
40	GOM_NL__2PRFIN20110601_030004_000000473103_00090_48380_7978.N1	01-JUN-2011 03:00:04	Straylight	46.500	40	The Sco	1.8590	7100.0	93	48380	No
41	GOM_NL__2PRFIN20110601_030151_000000473103_00090_48380_7979.N1	01-JUN-2011 03:01:51	Twilight	47.000	25	35Lam Sco	1.6200	28000.	94	48380	No
42	GOM_NL__2PRFIN20110601_030336_000000463103_00090_48380_7980.N1	01-JUN-2011 03:03:36	Twilight	45.500	75	26Eps Sco	2.2910	4250.0	91	48380	No

3. Quality information per product

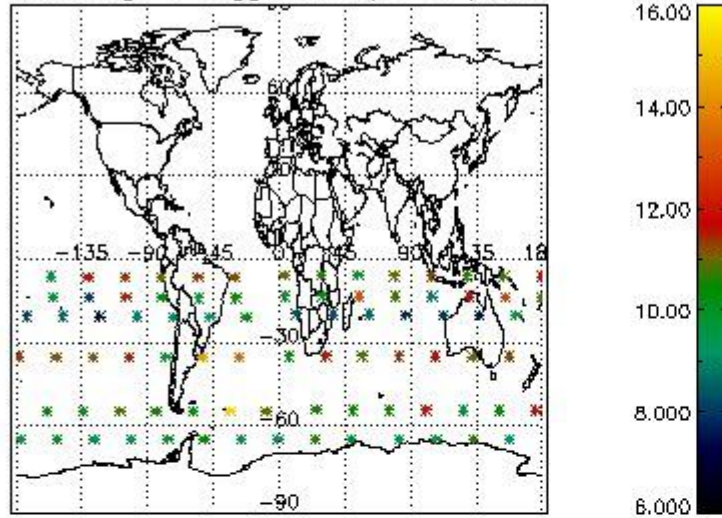
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

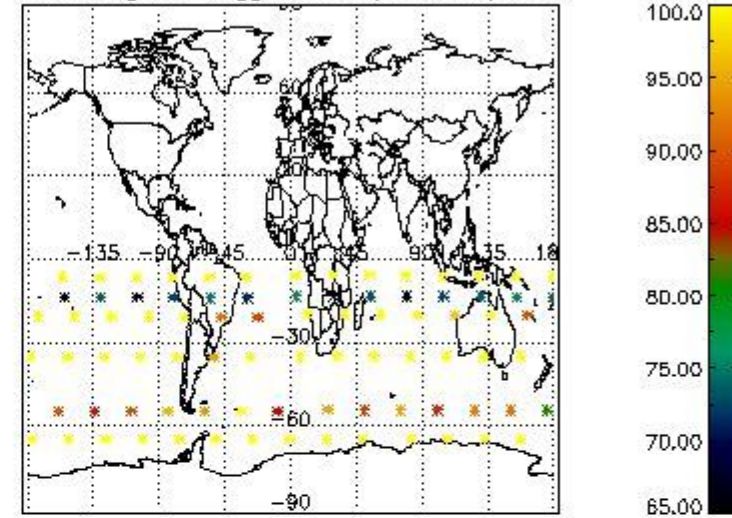


3.2 Plot quality information per product (world map)

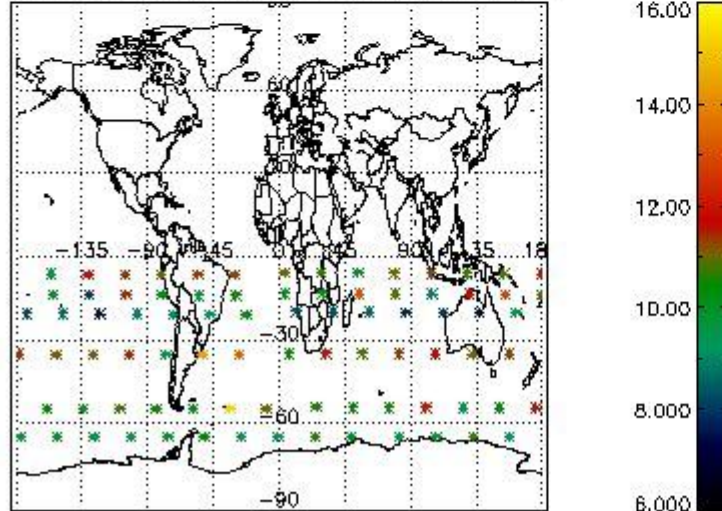
Percentage of flagged data per O3 profile



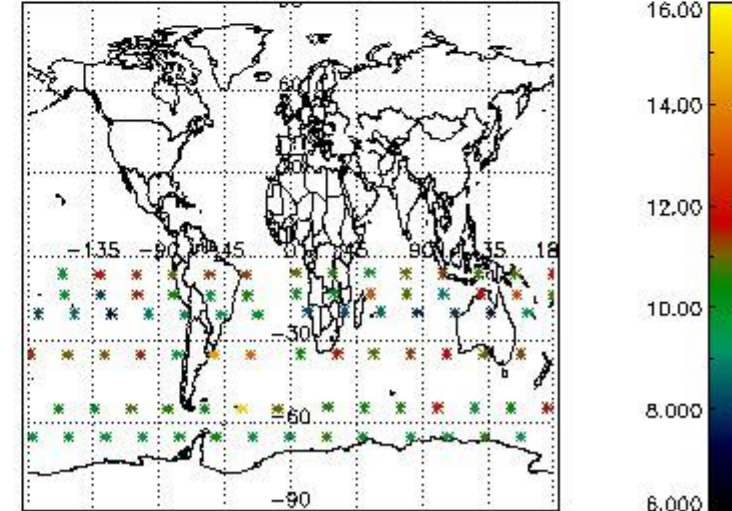
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

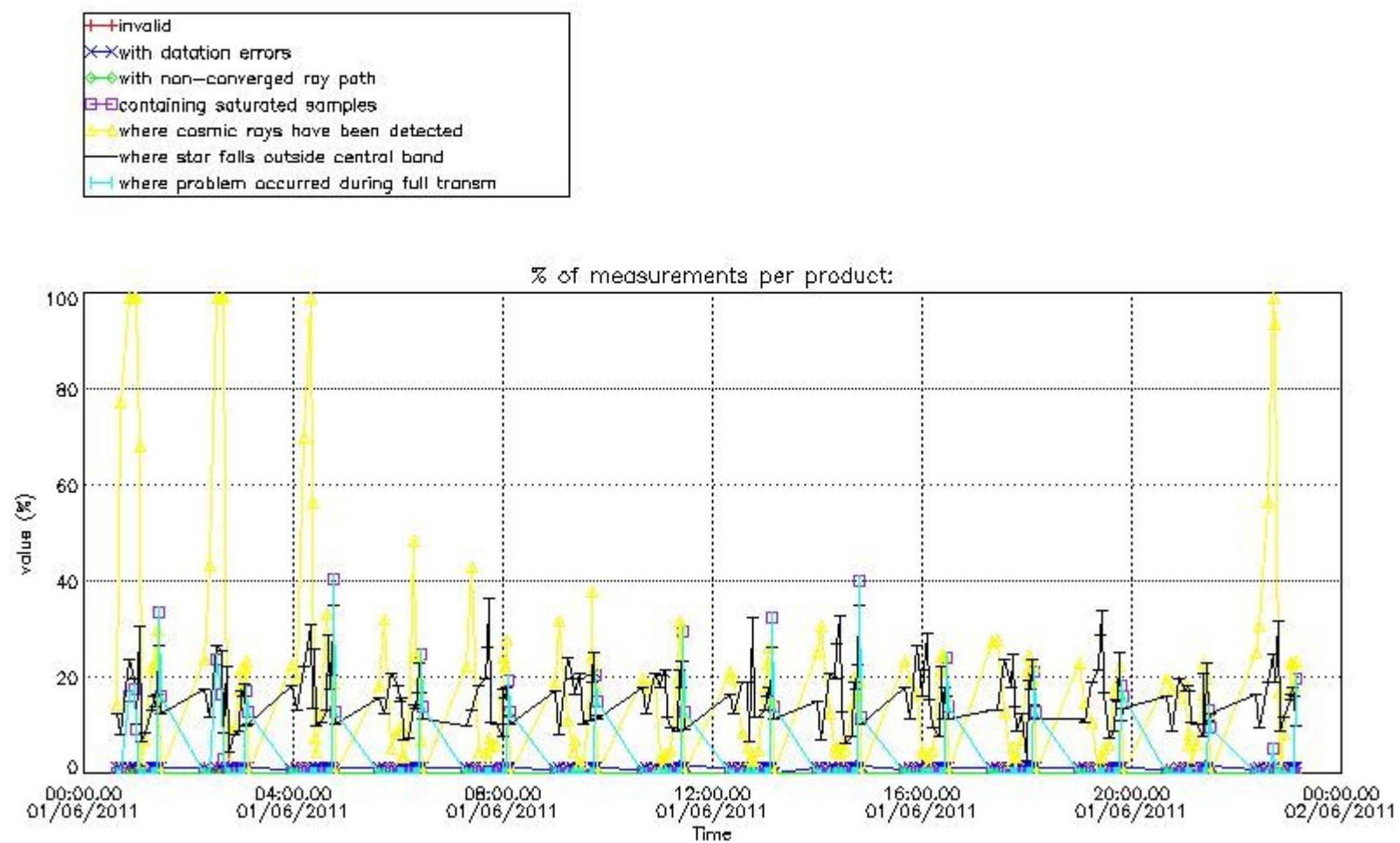


4. Level 1 quality information per product

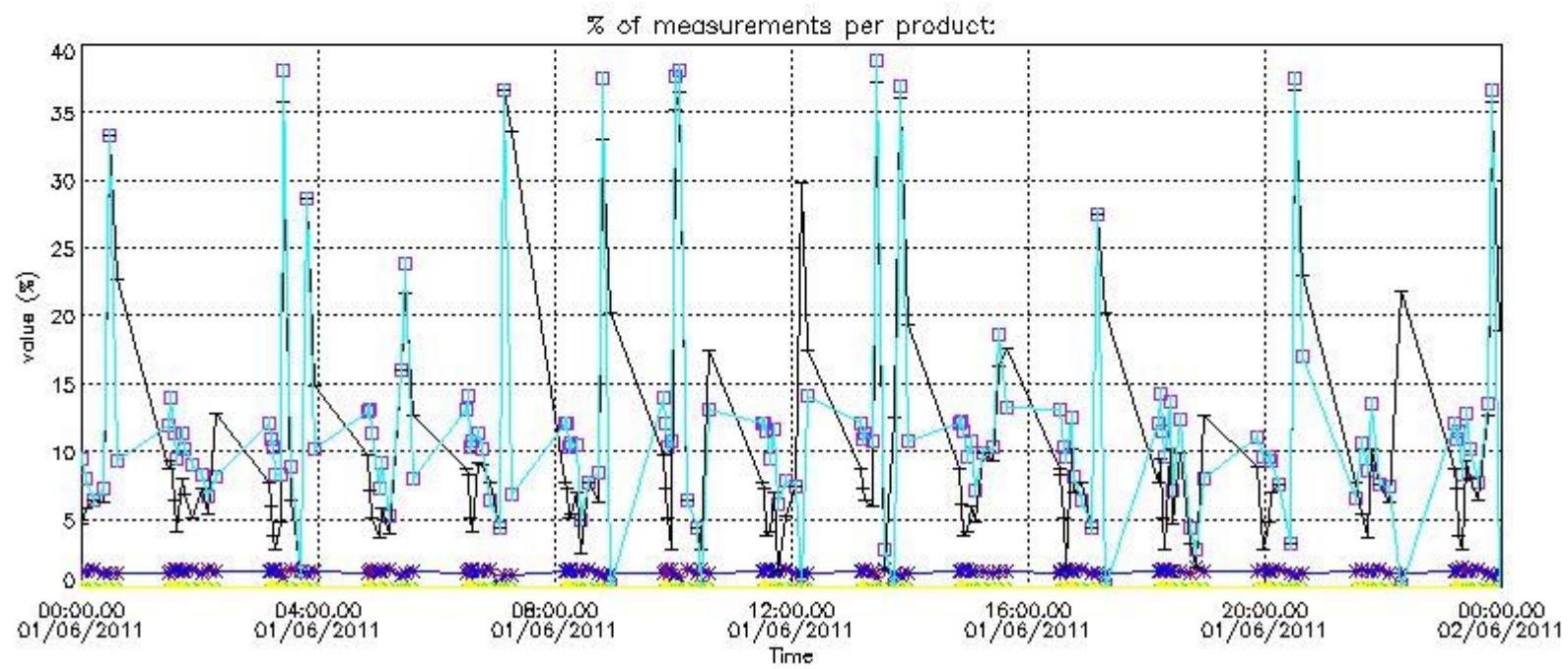
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

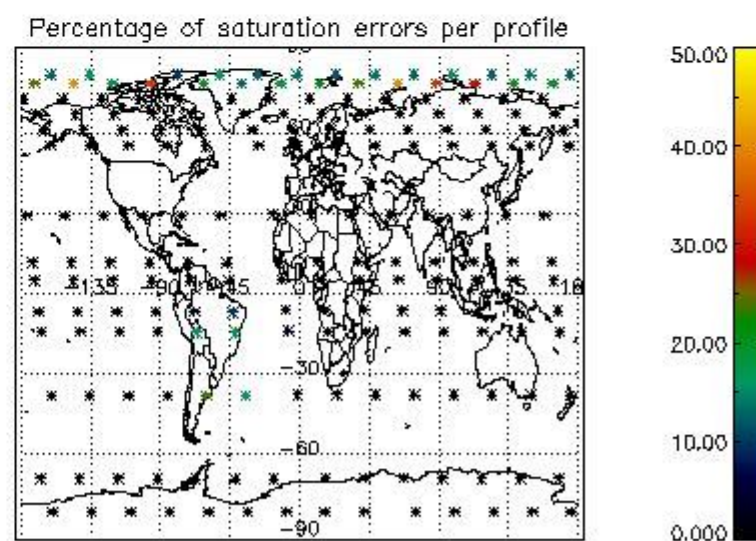
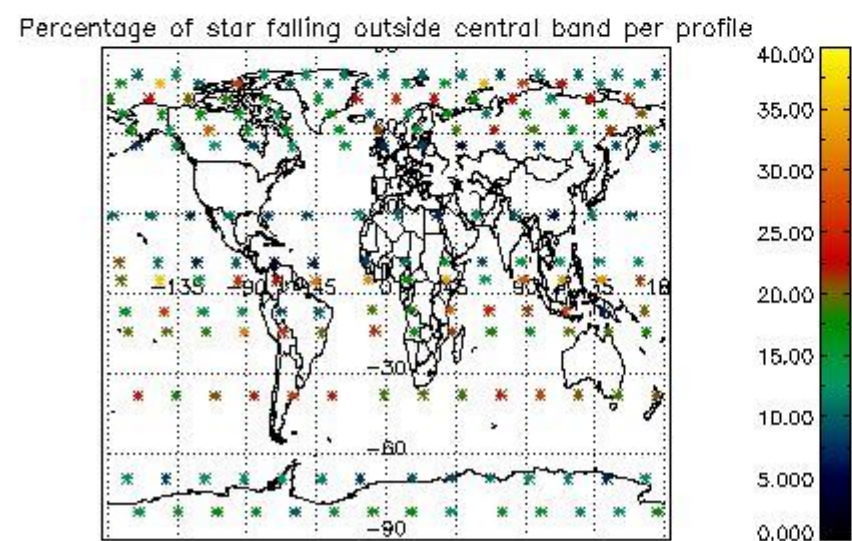
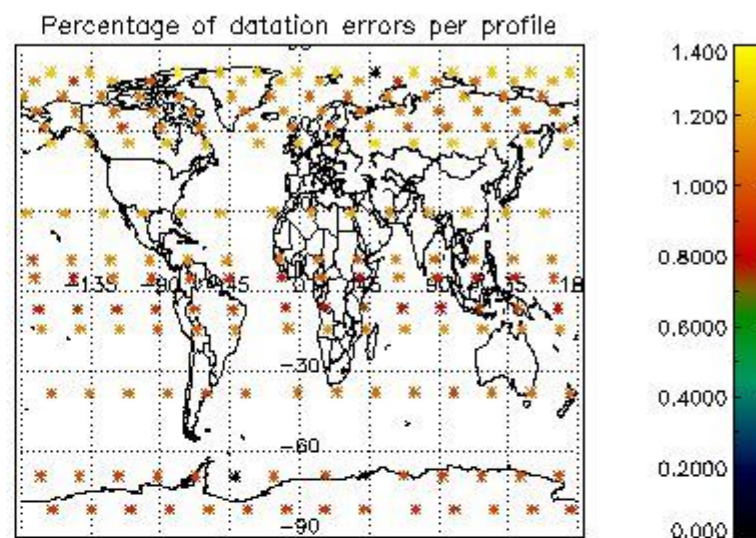
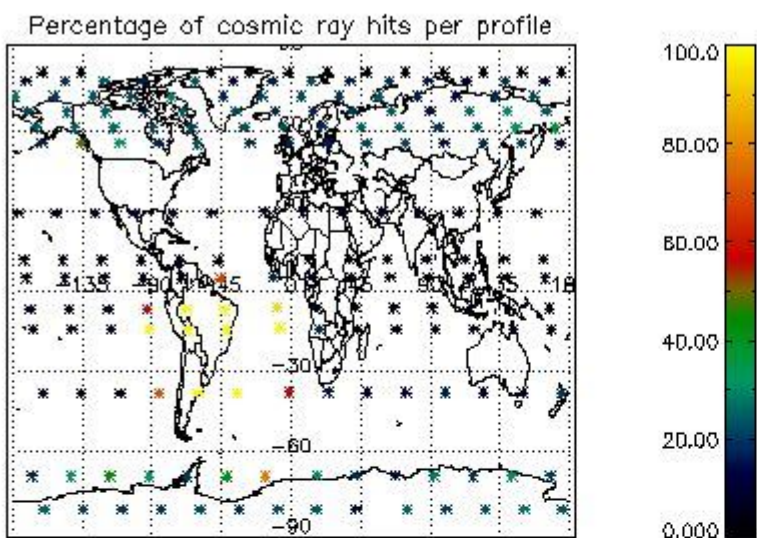


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

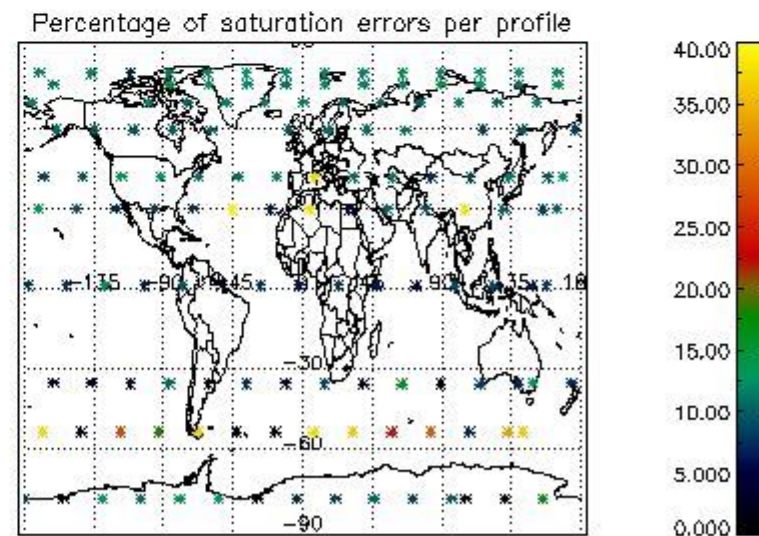
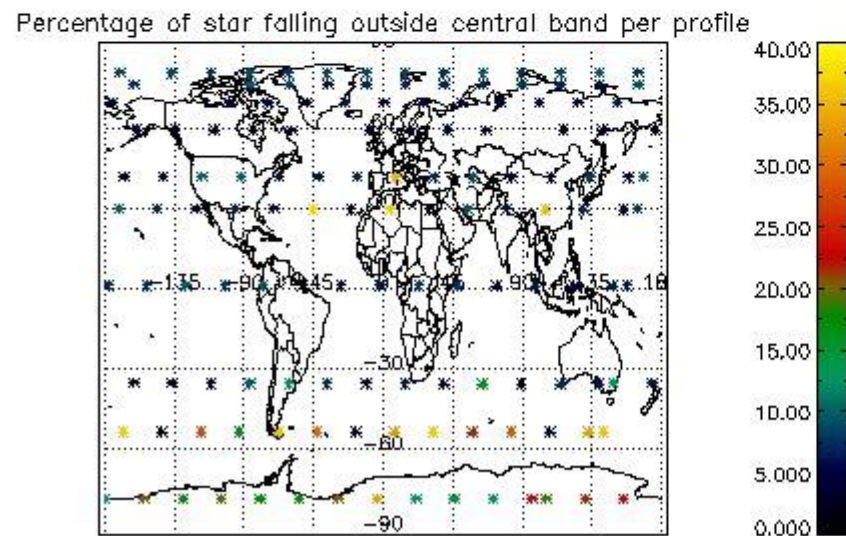
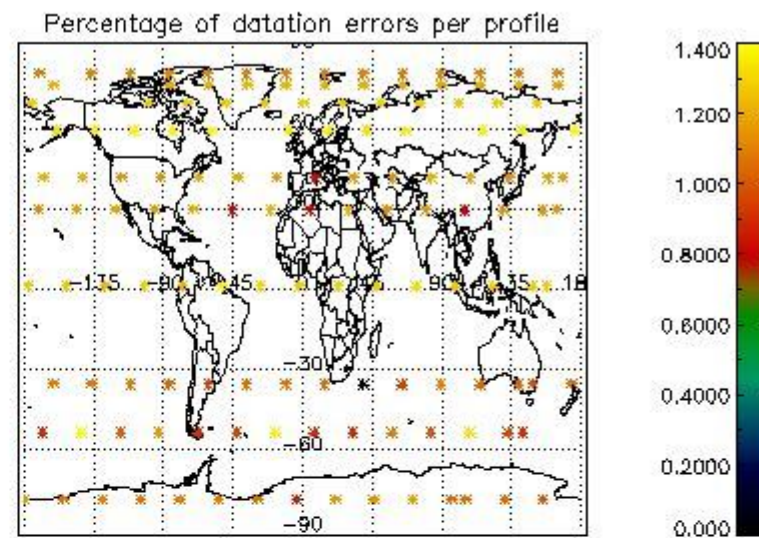
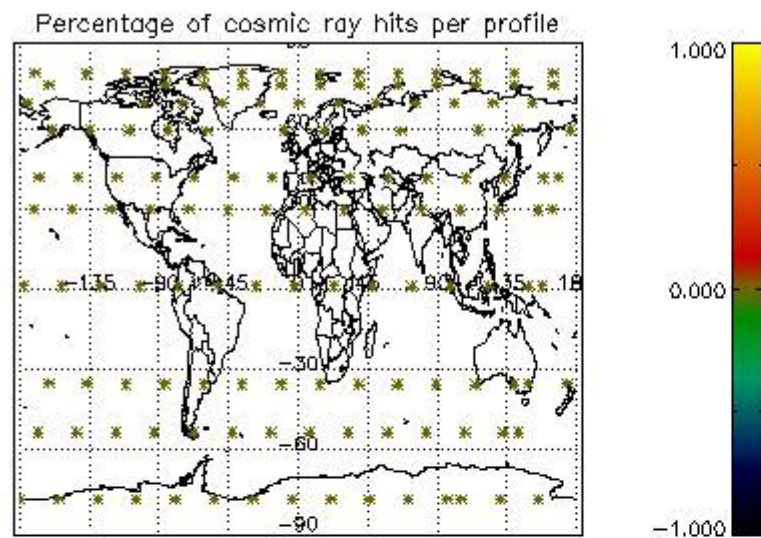


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

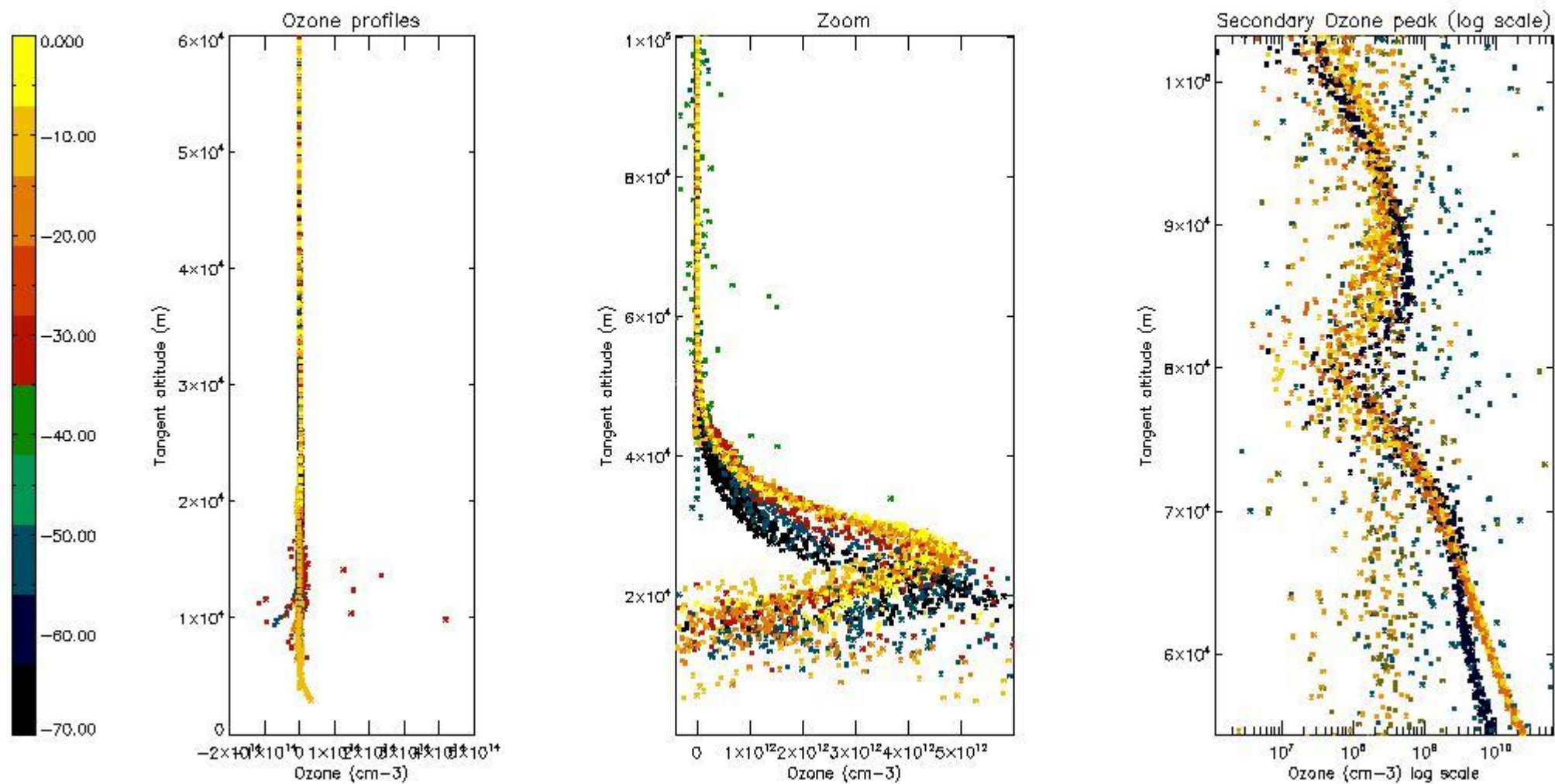
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	13

STD < 10	9
STD < 5	6

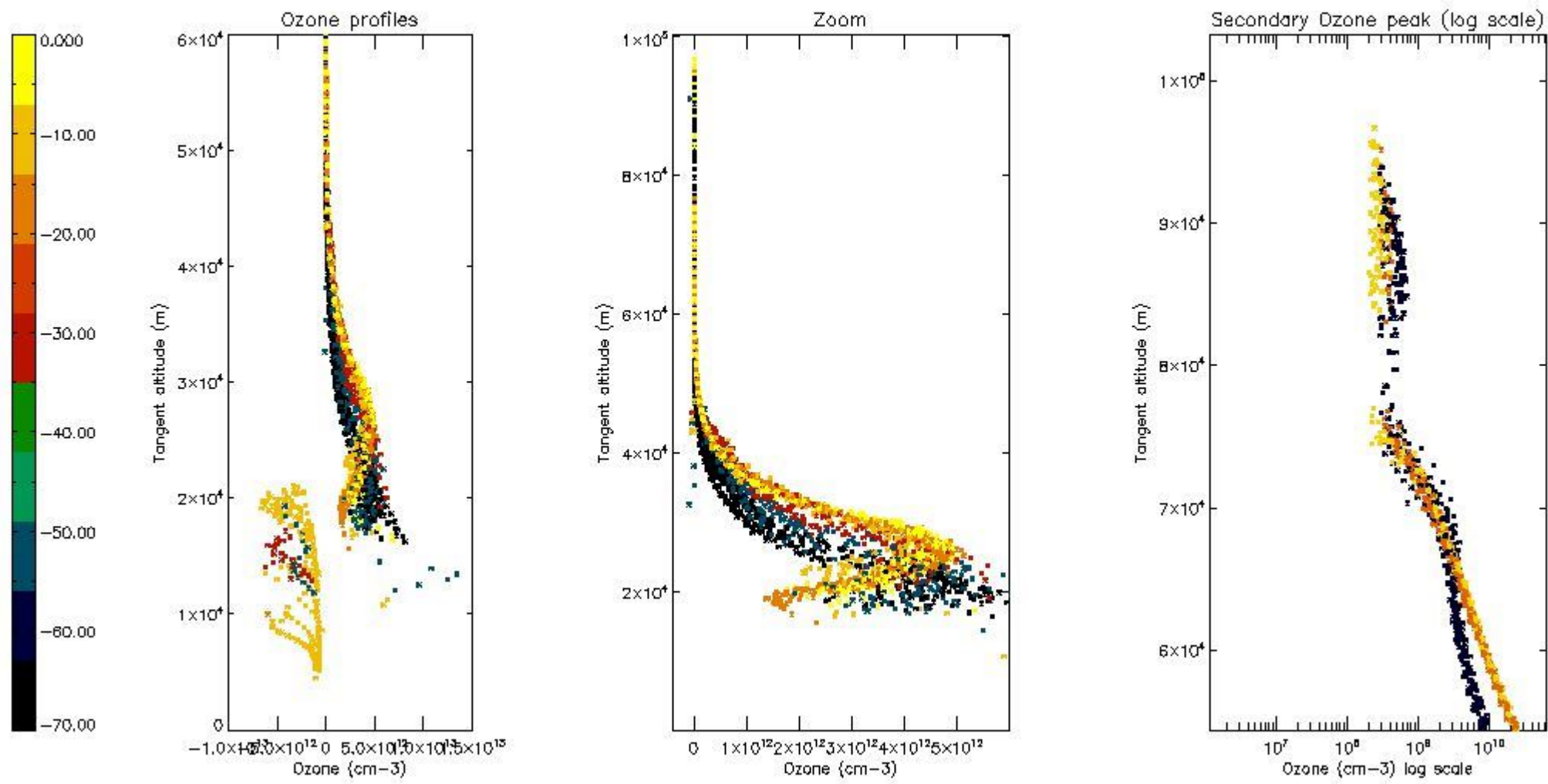
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



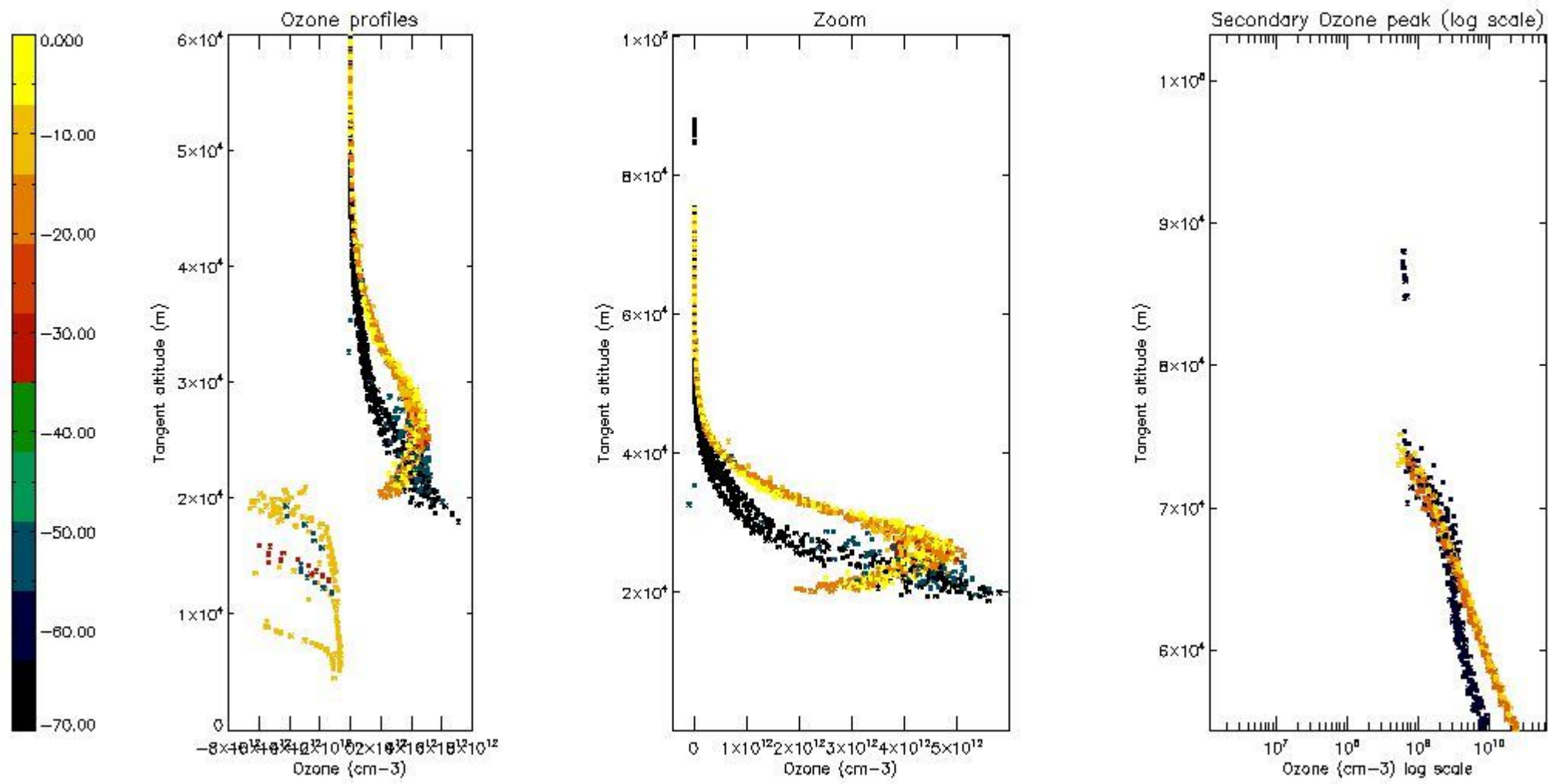
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



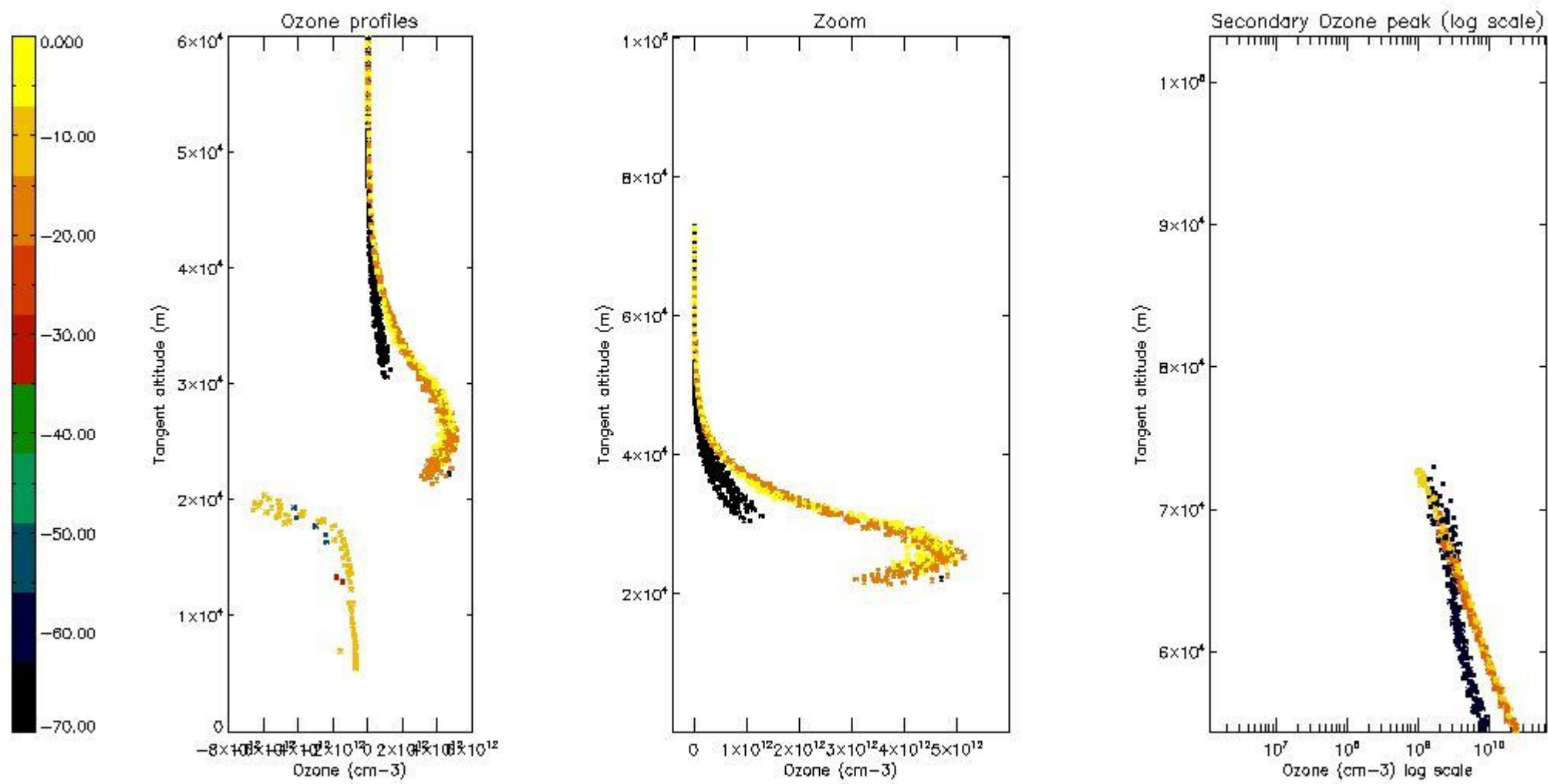
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



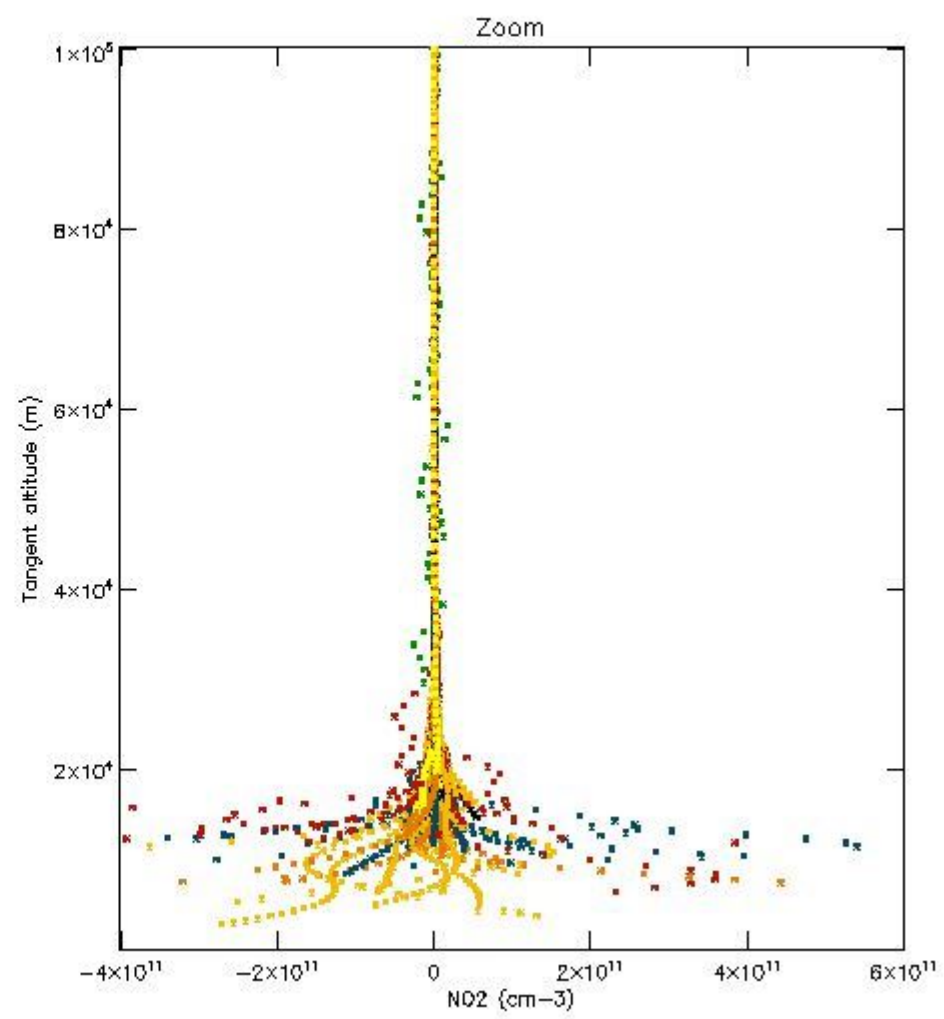
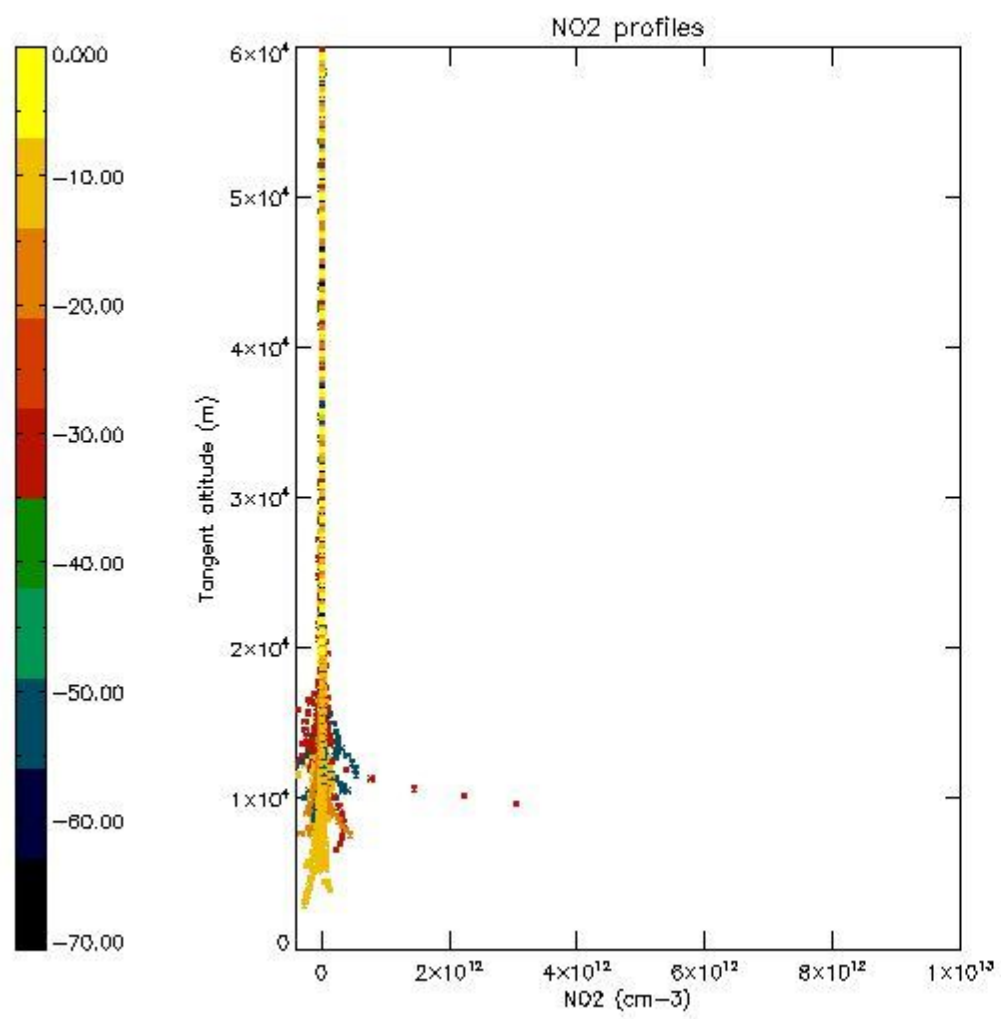
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



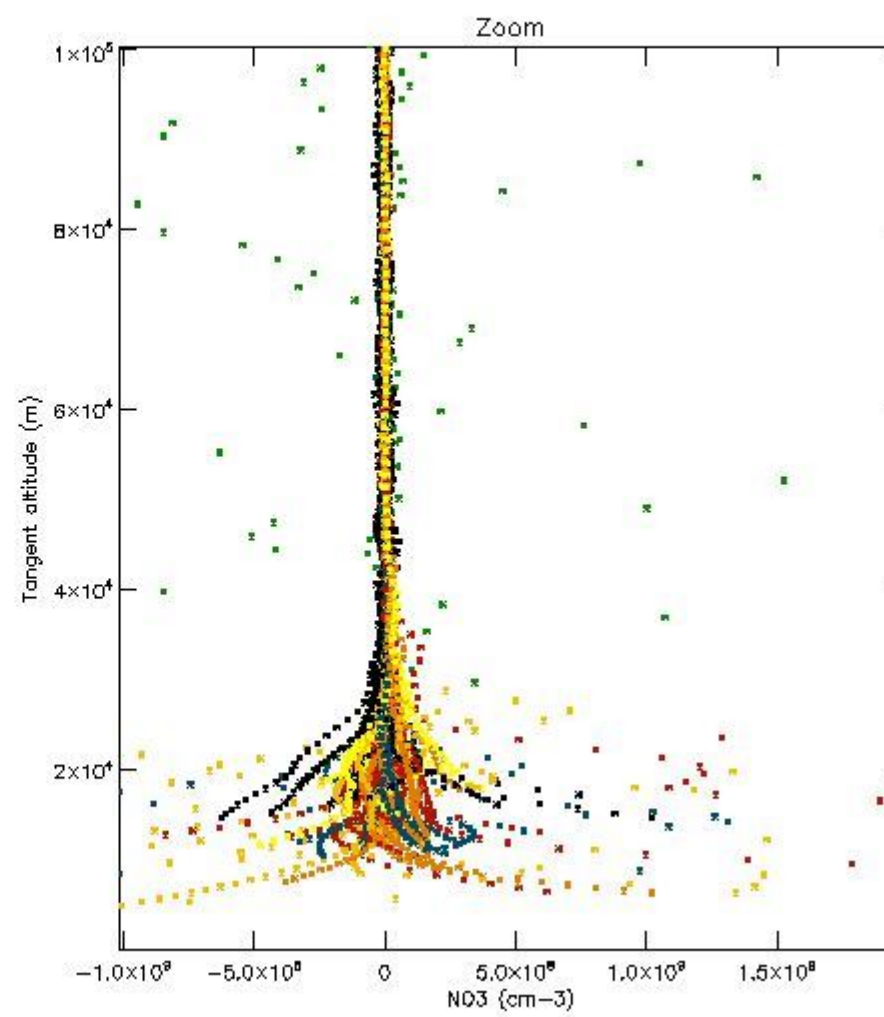
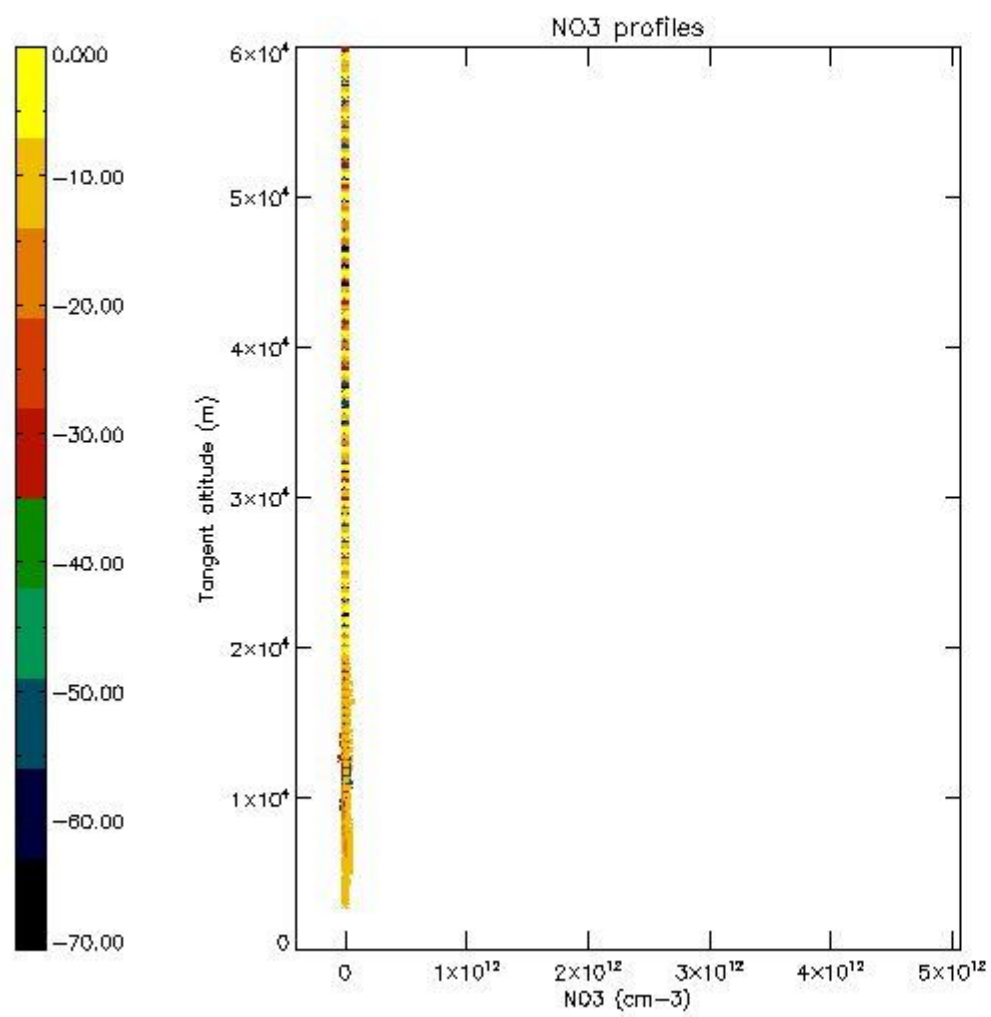
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



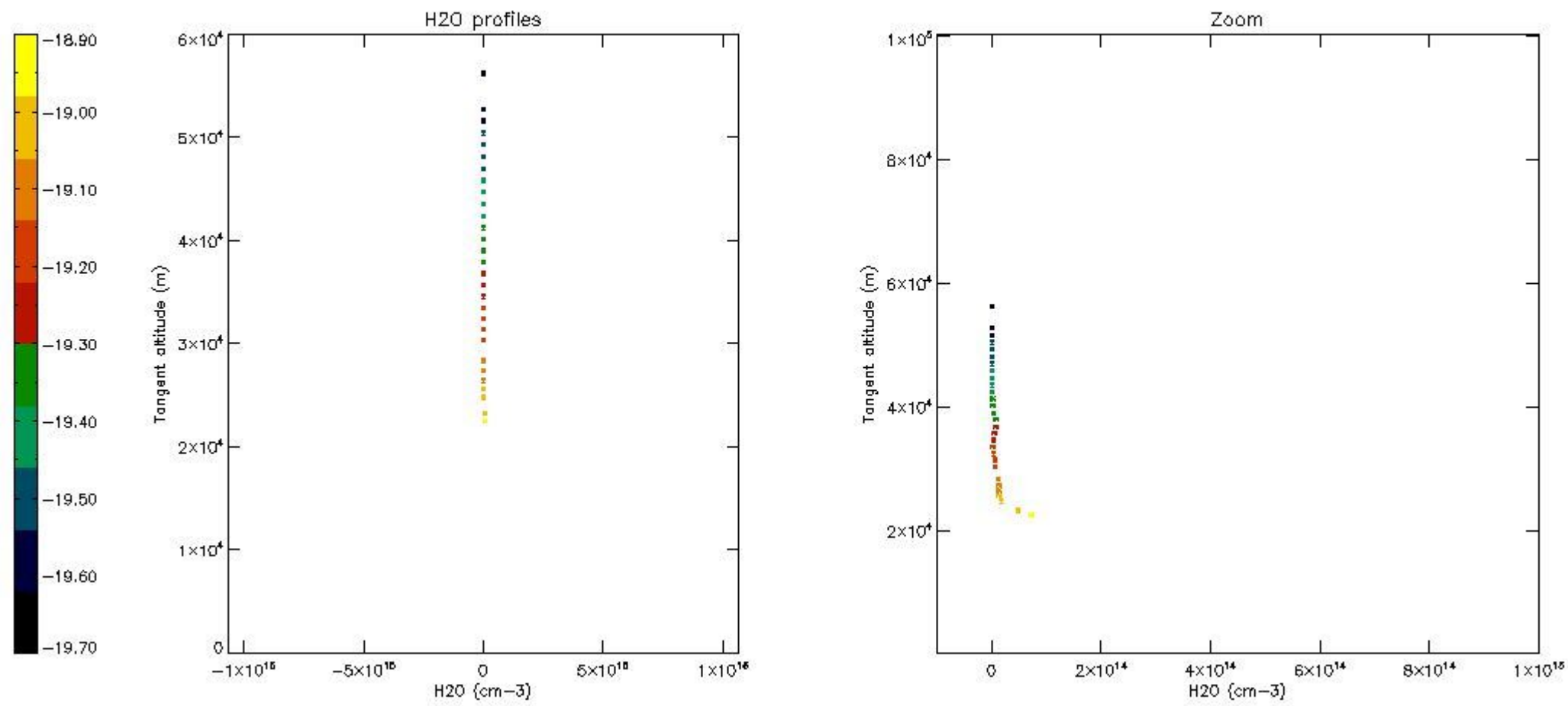
5.7 Plot NO3 profiles for all STD (dark without errors)

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	01-JUN-2011 00:00:49
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	01-JUN-2011 00:00:49
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	01-JUN-2011 00:00:49

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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](#)

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

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[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 \(dark without errors\)](#)

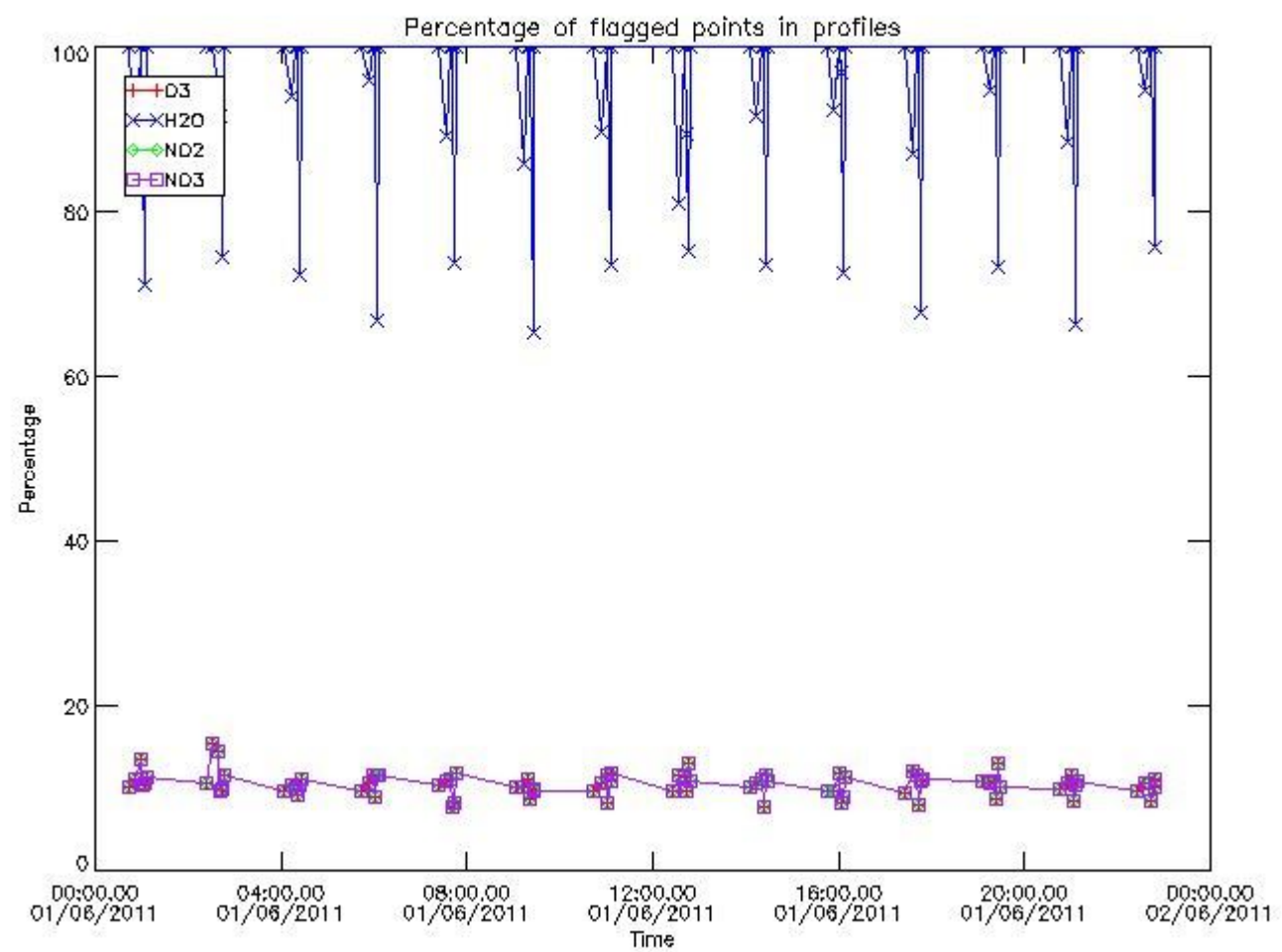
[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

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

3. Quality information per product

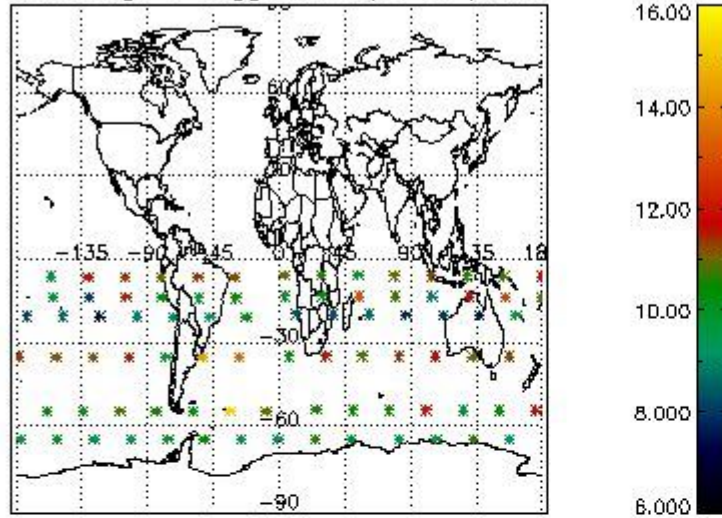
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

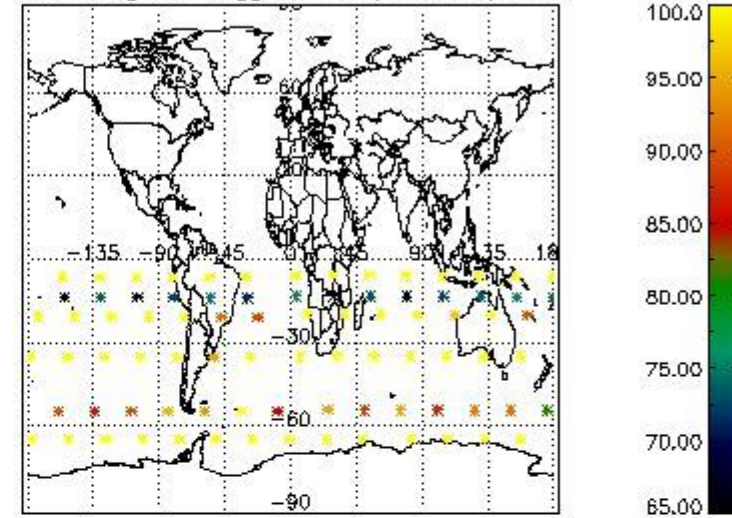


3.2 Plot quality information per product (world map)

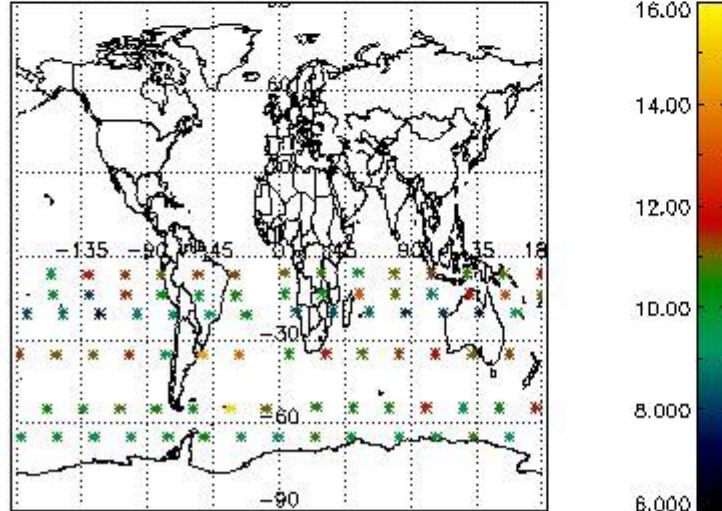
Percentage of flagged data per O3 profile



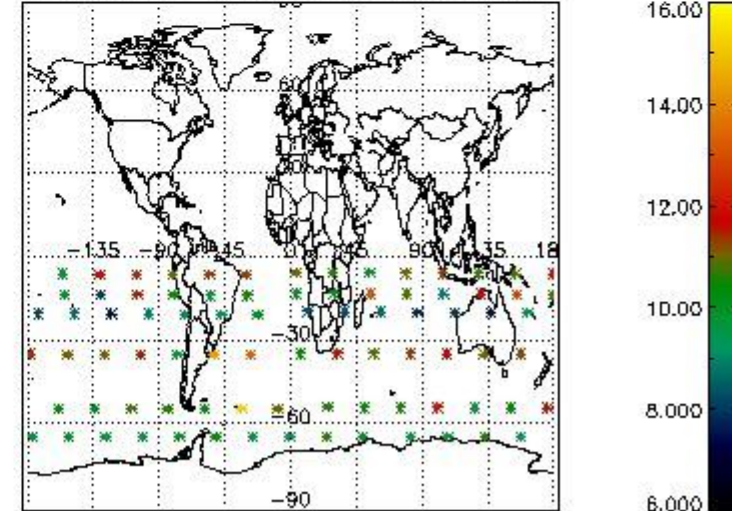
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

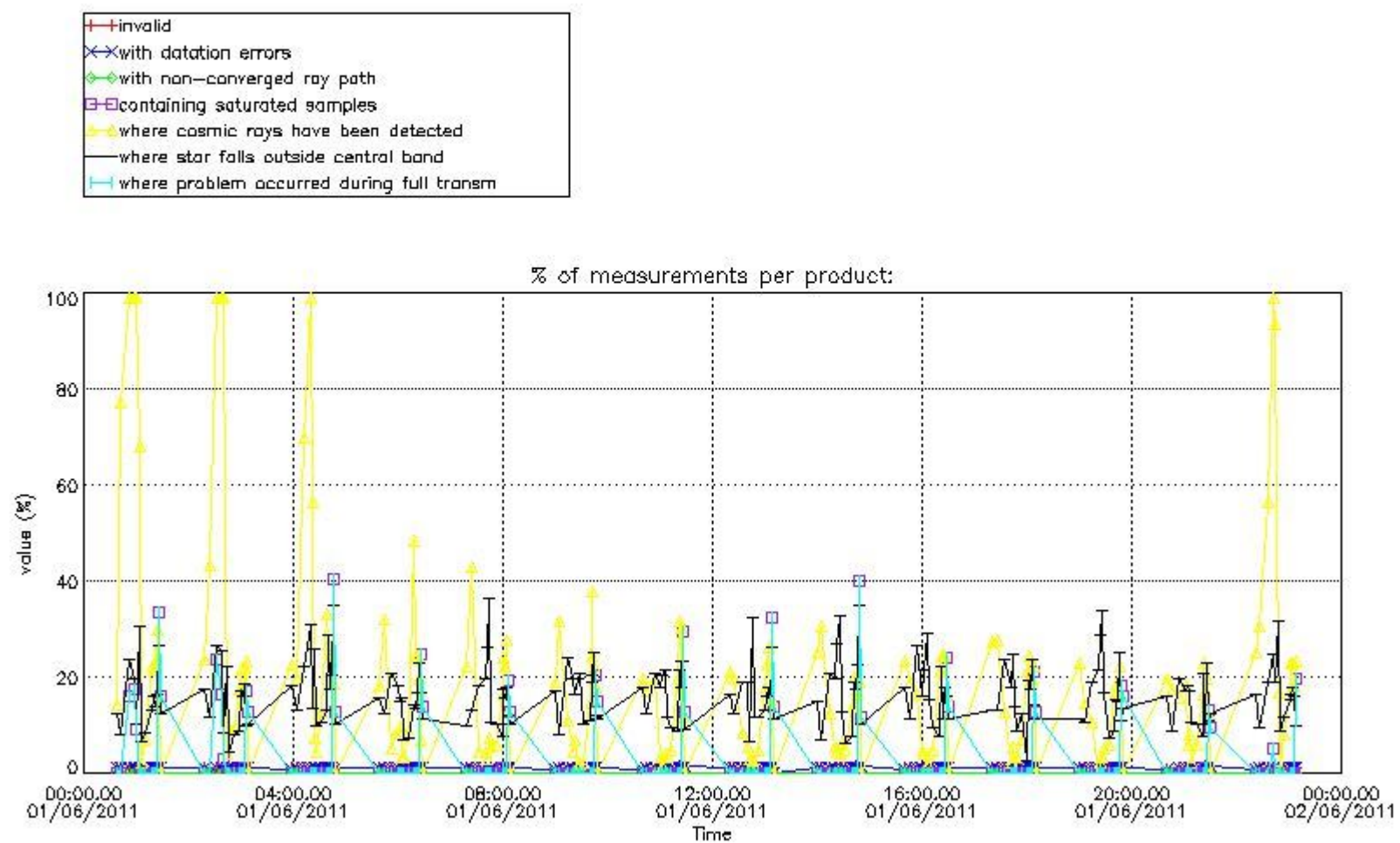


4. Level 1 quality information per product

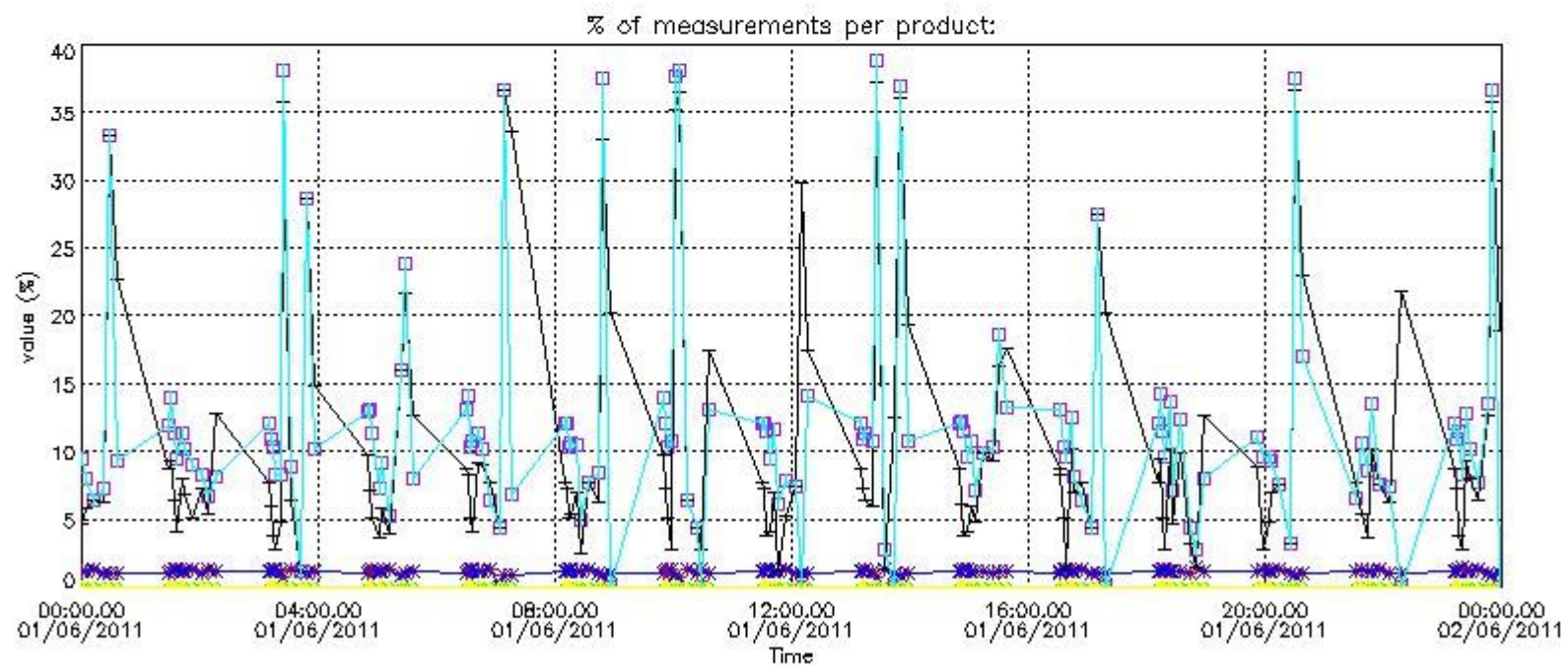
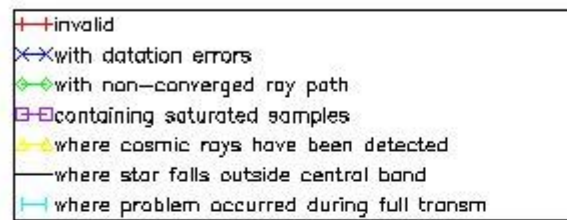
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

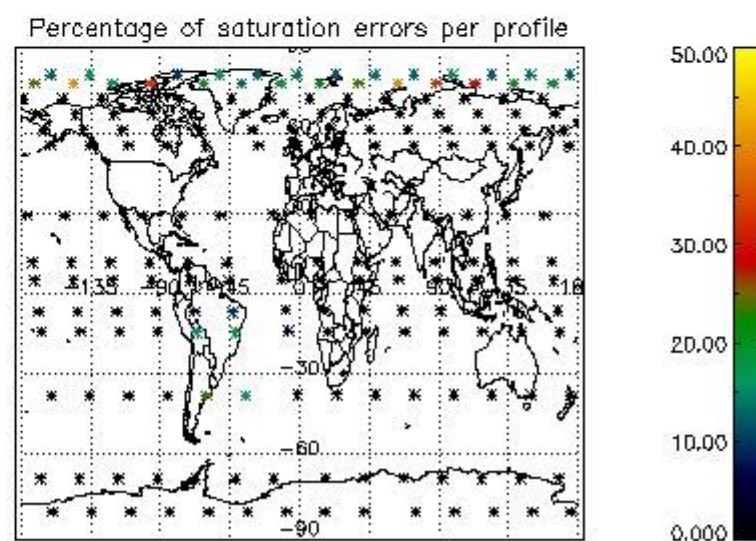
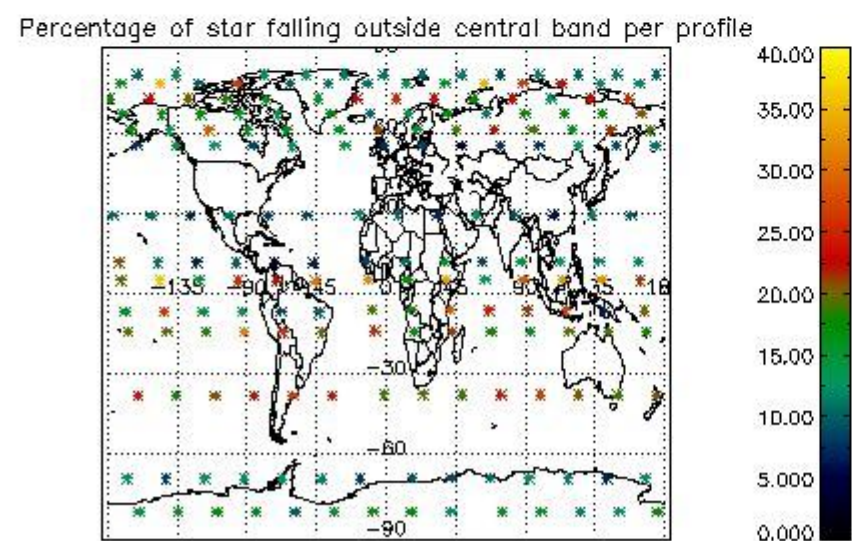
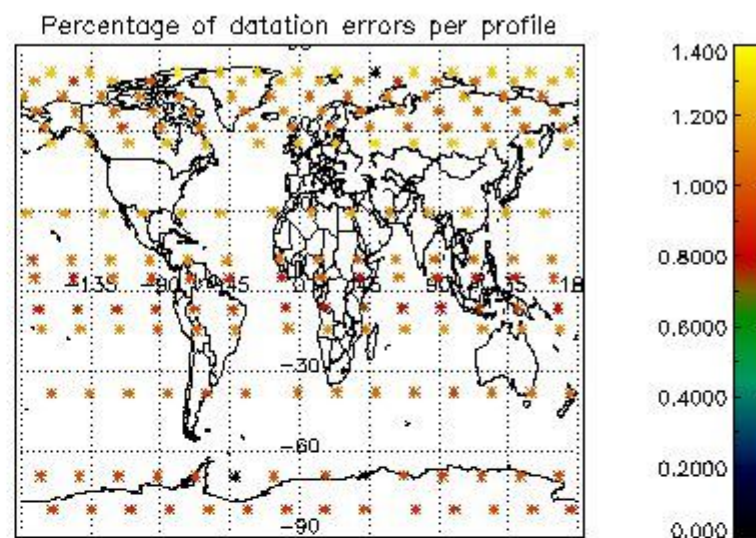
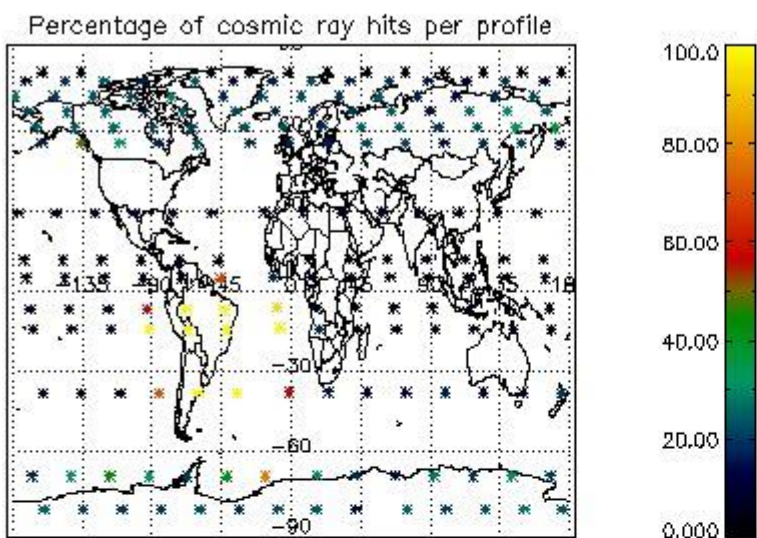


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

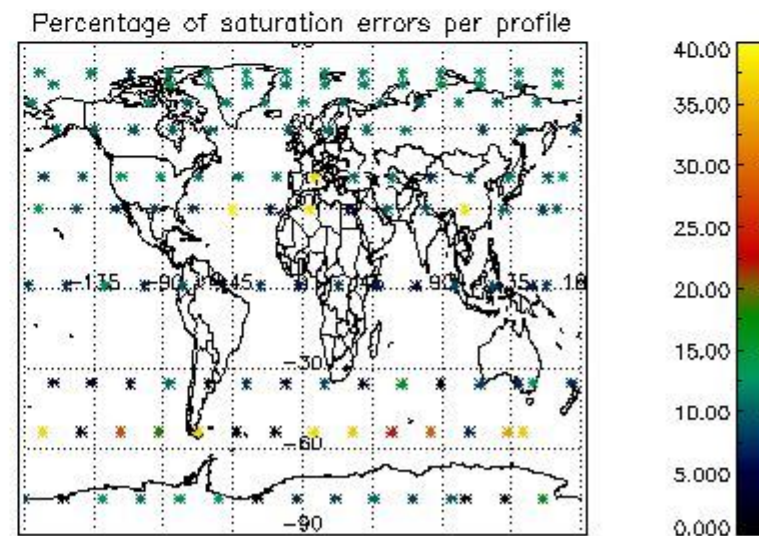
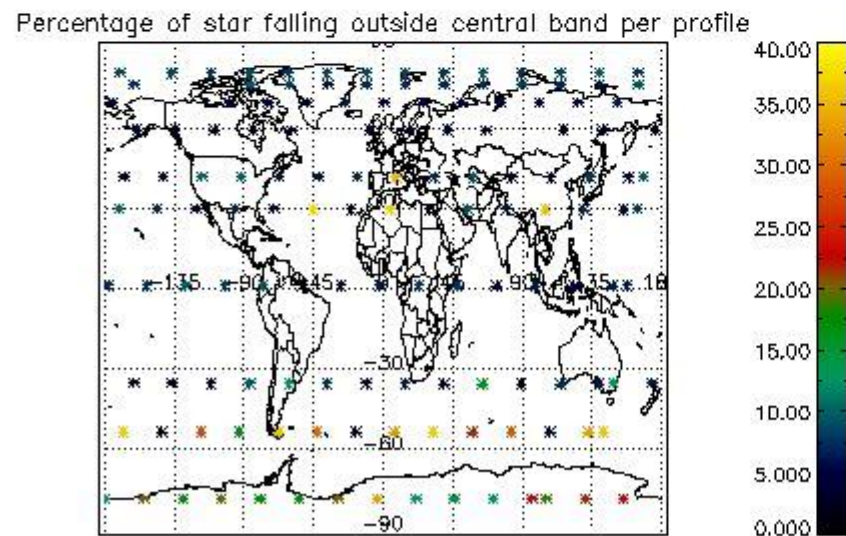
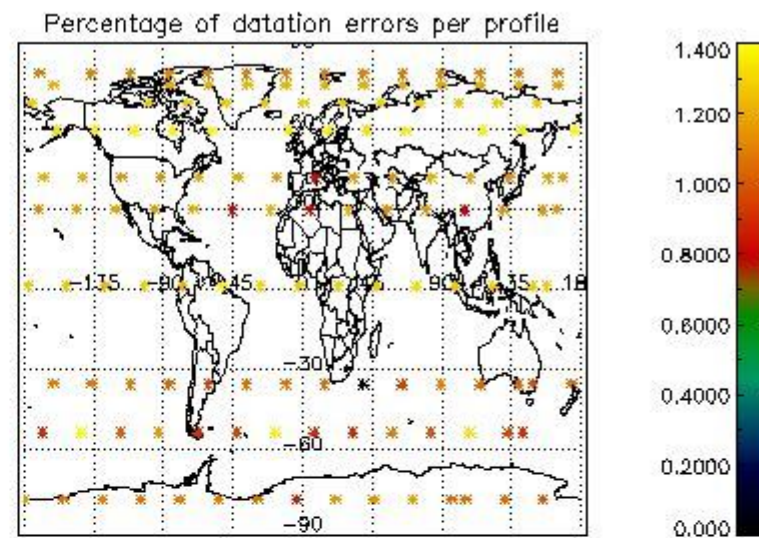
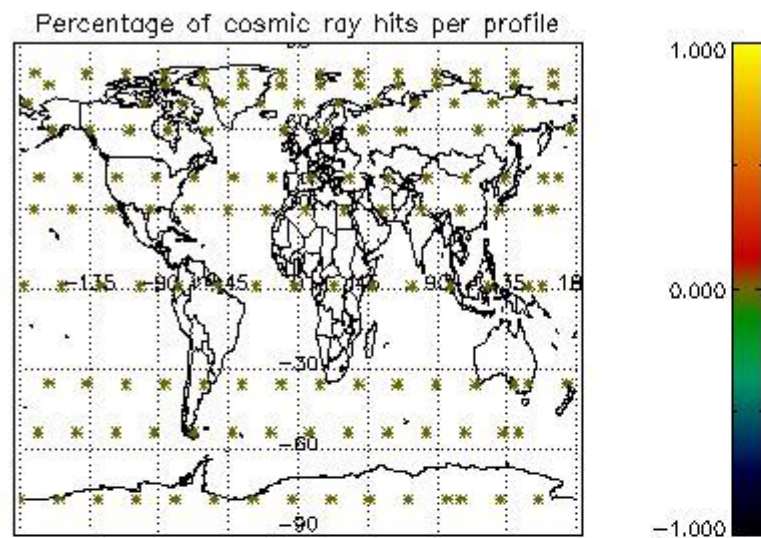


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

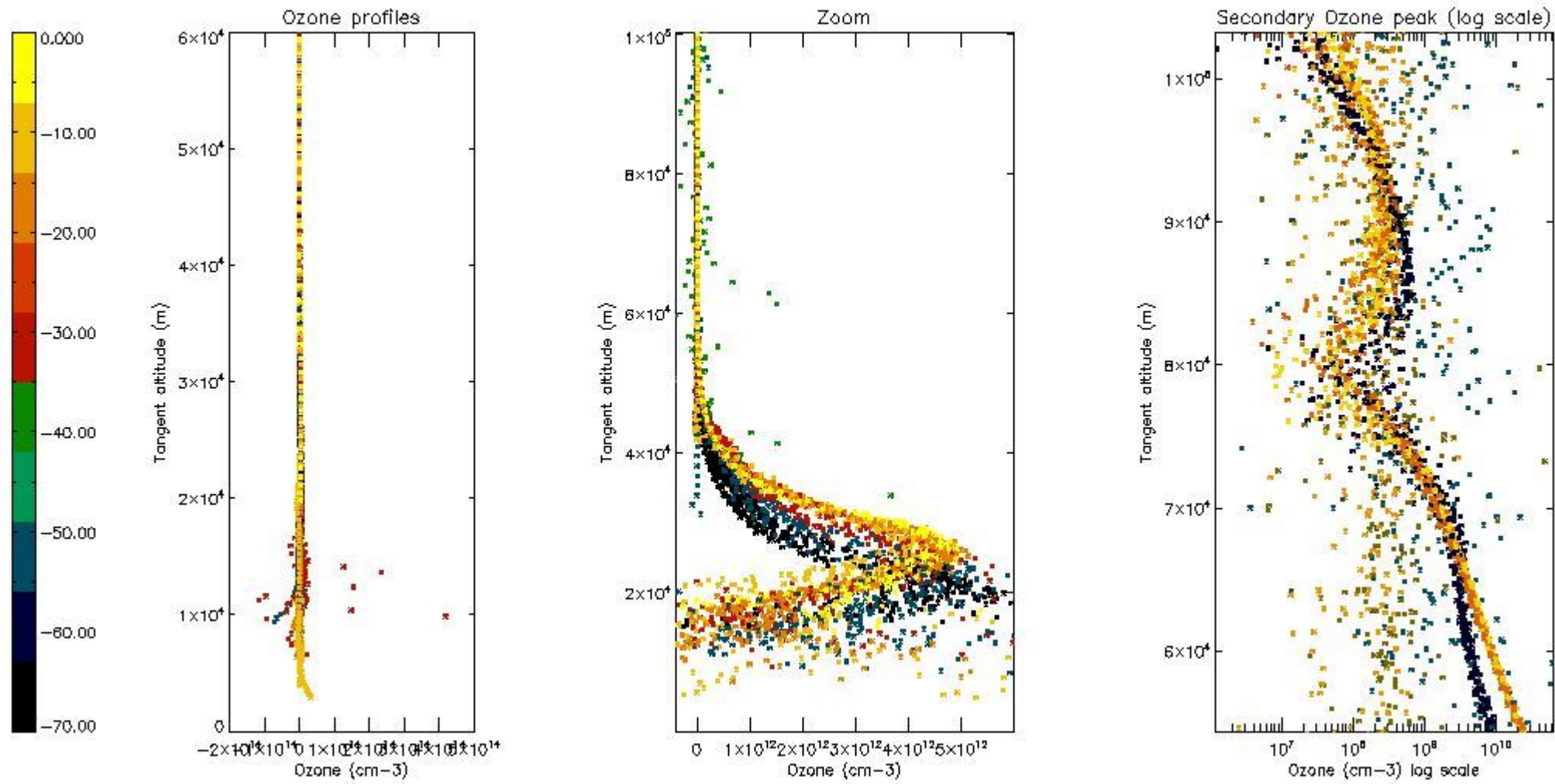
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	13

STD < 10	9
STD < 5	6

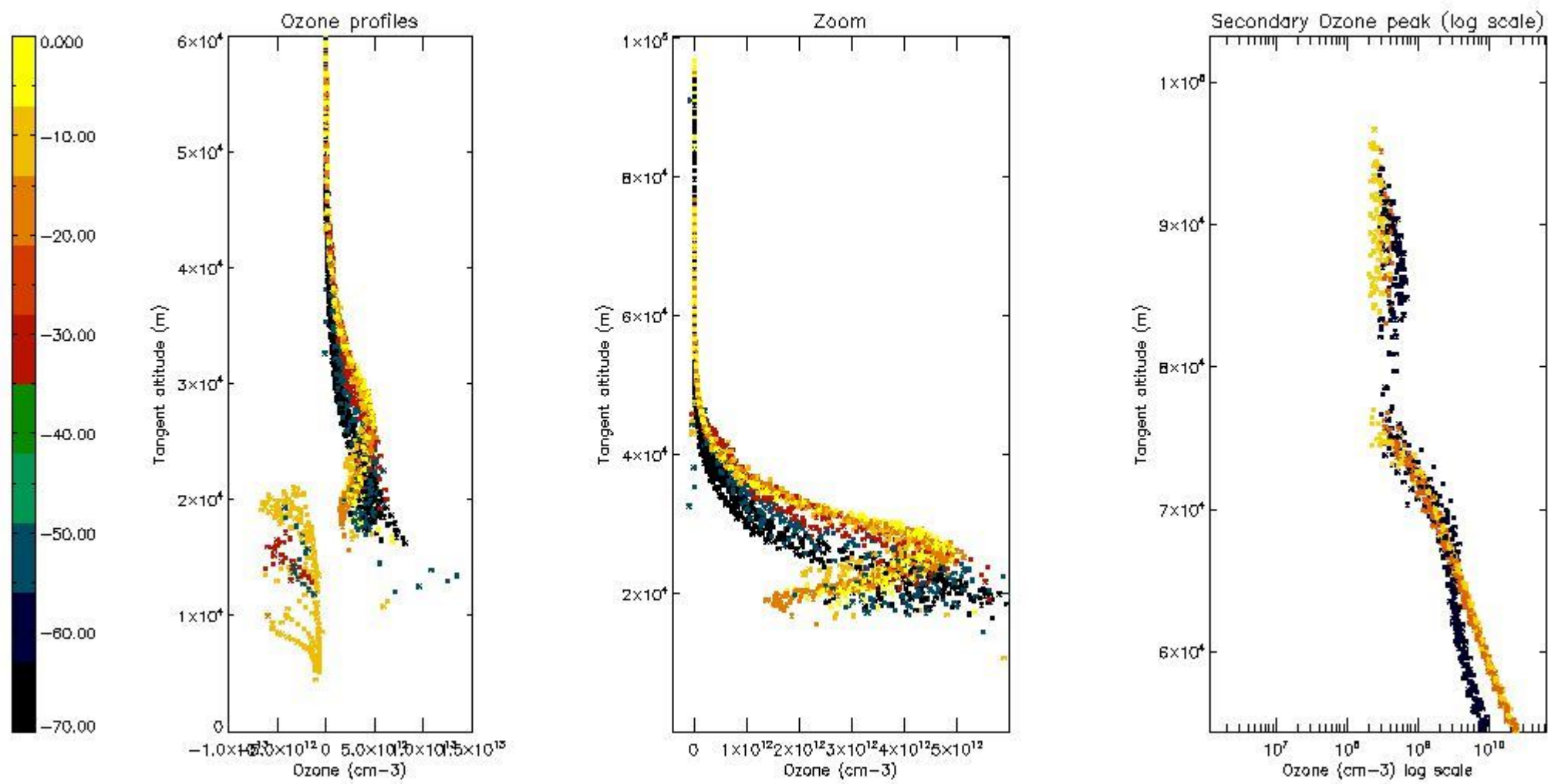
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



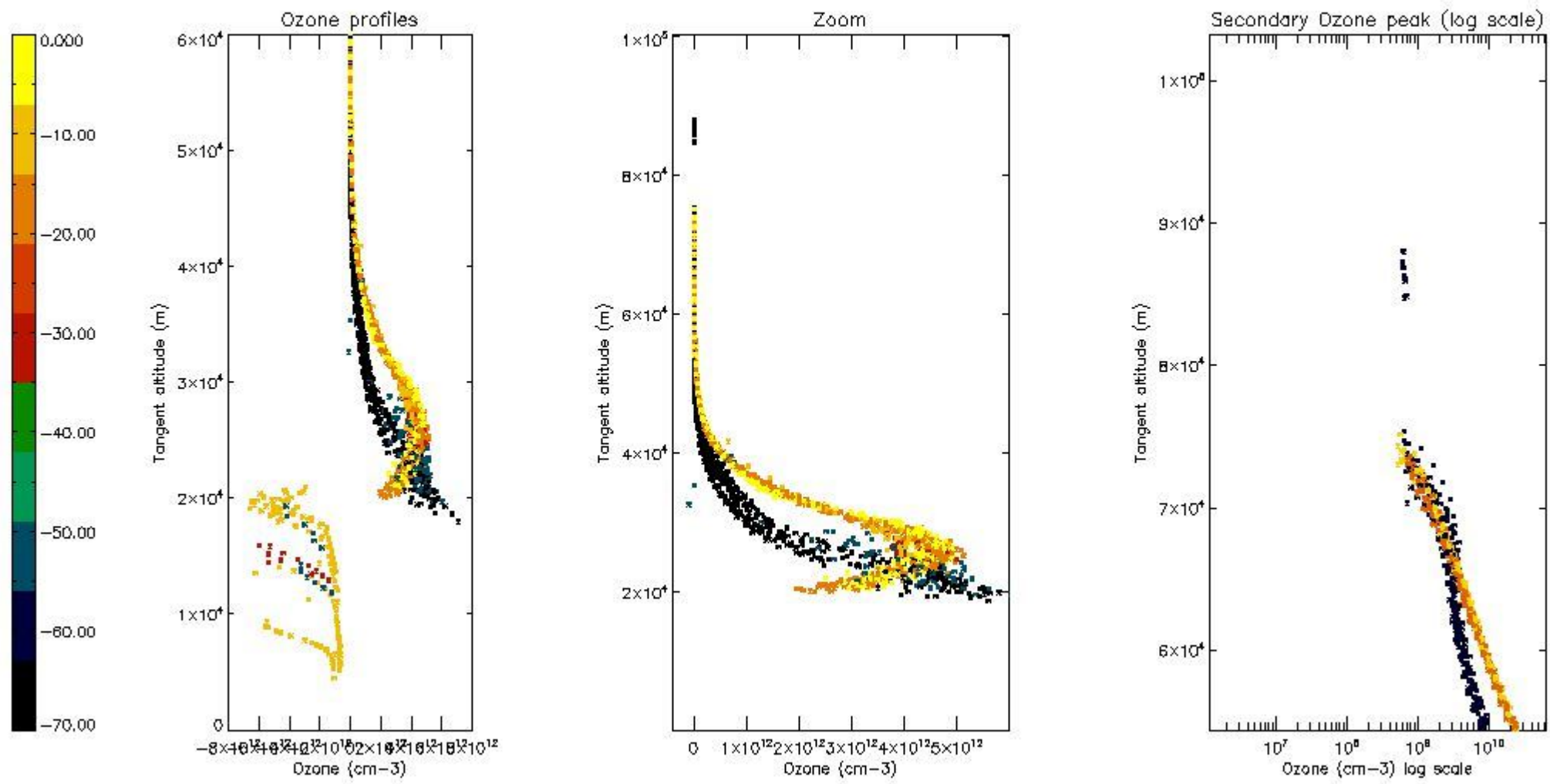
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



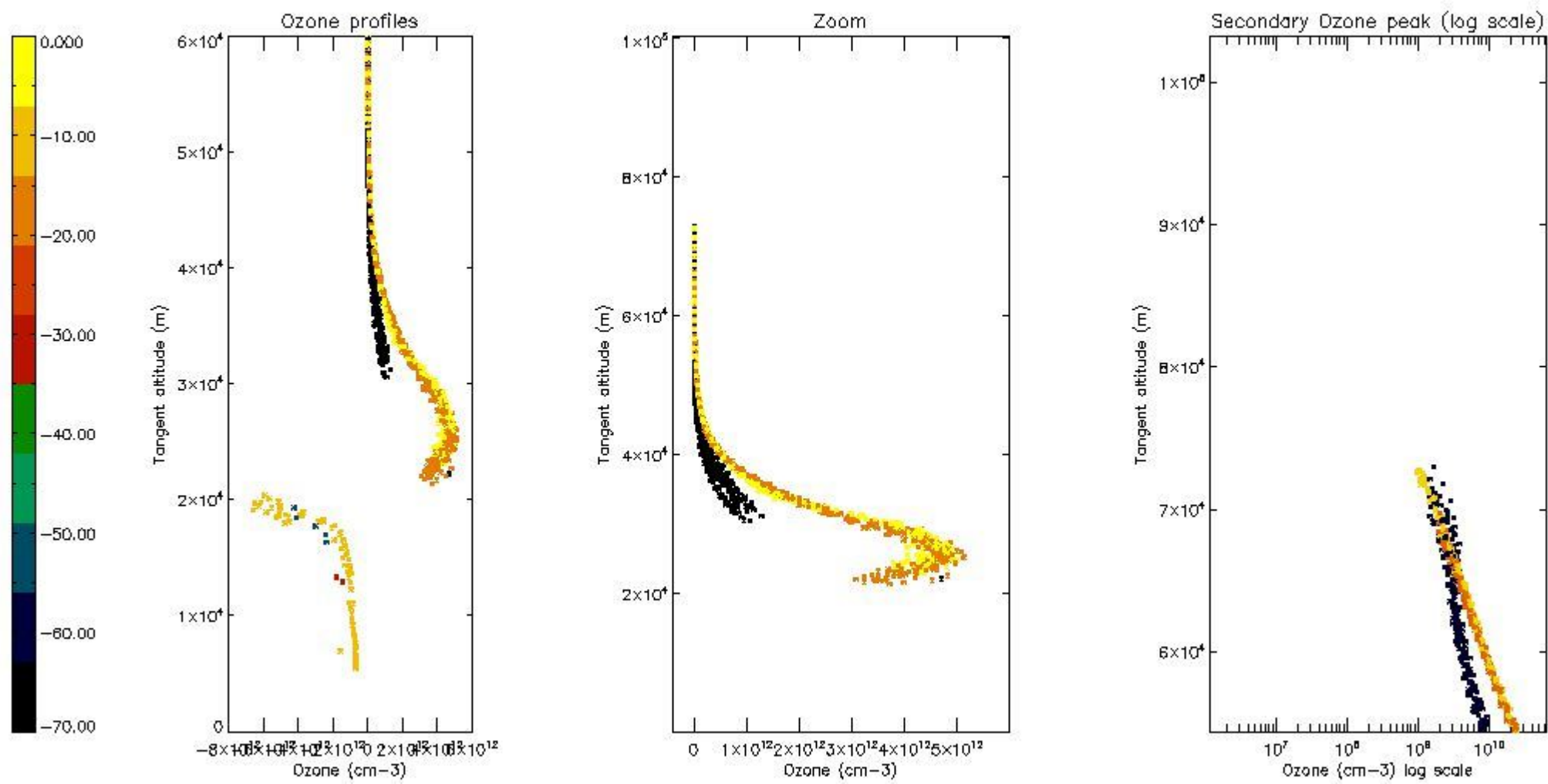
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



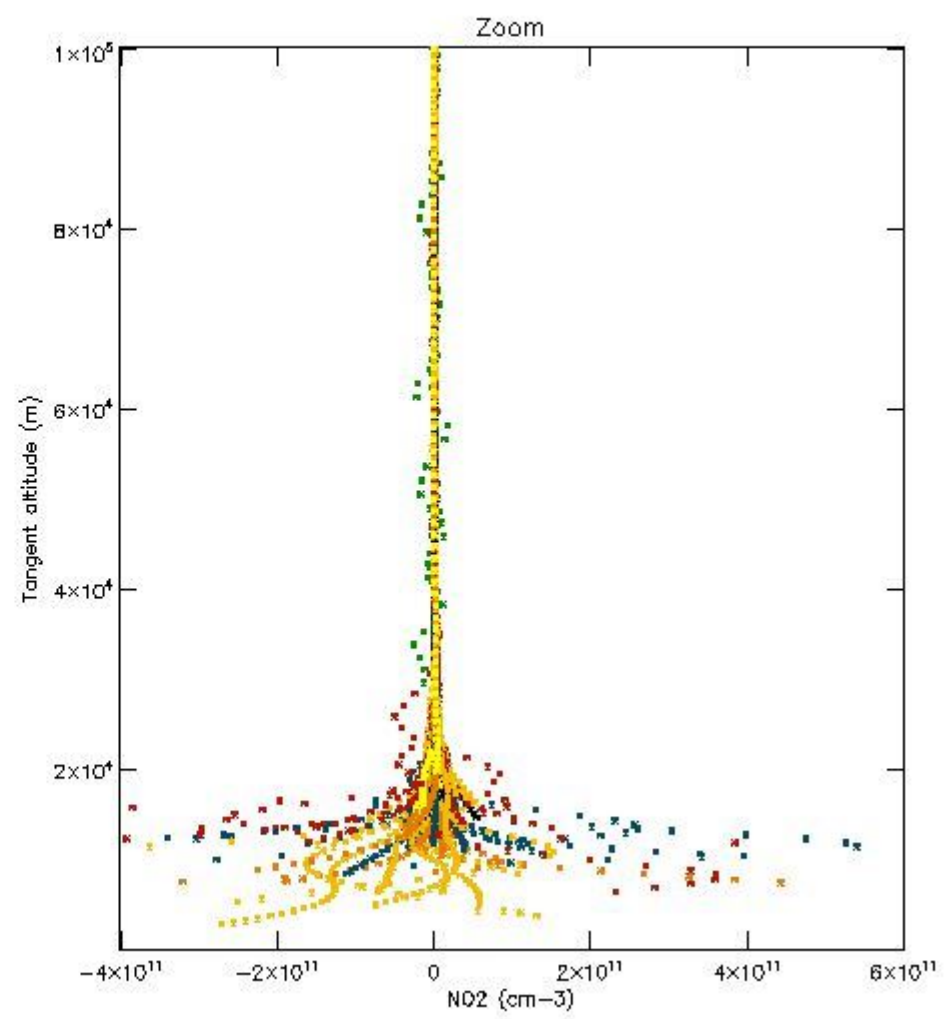
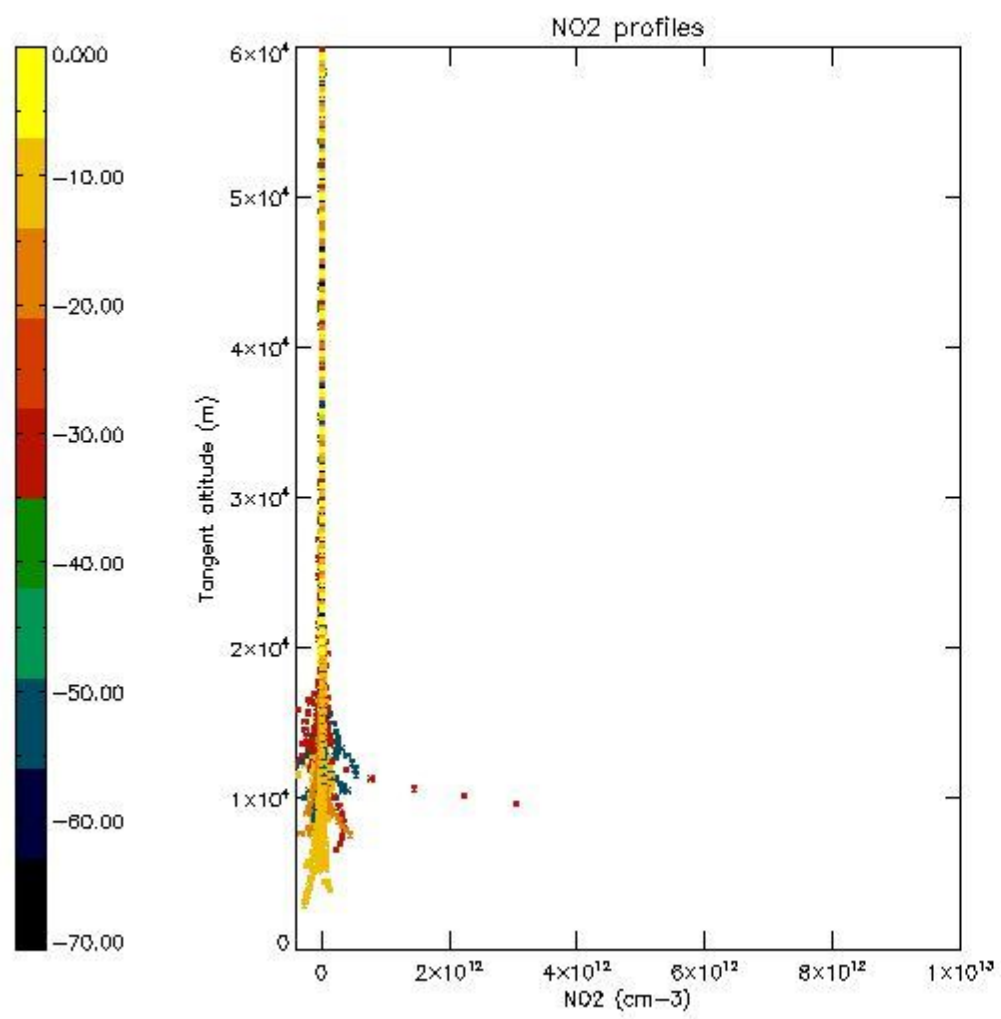
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



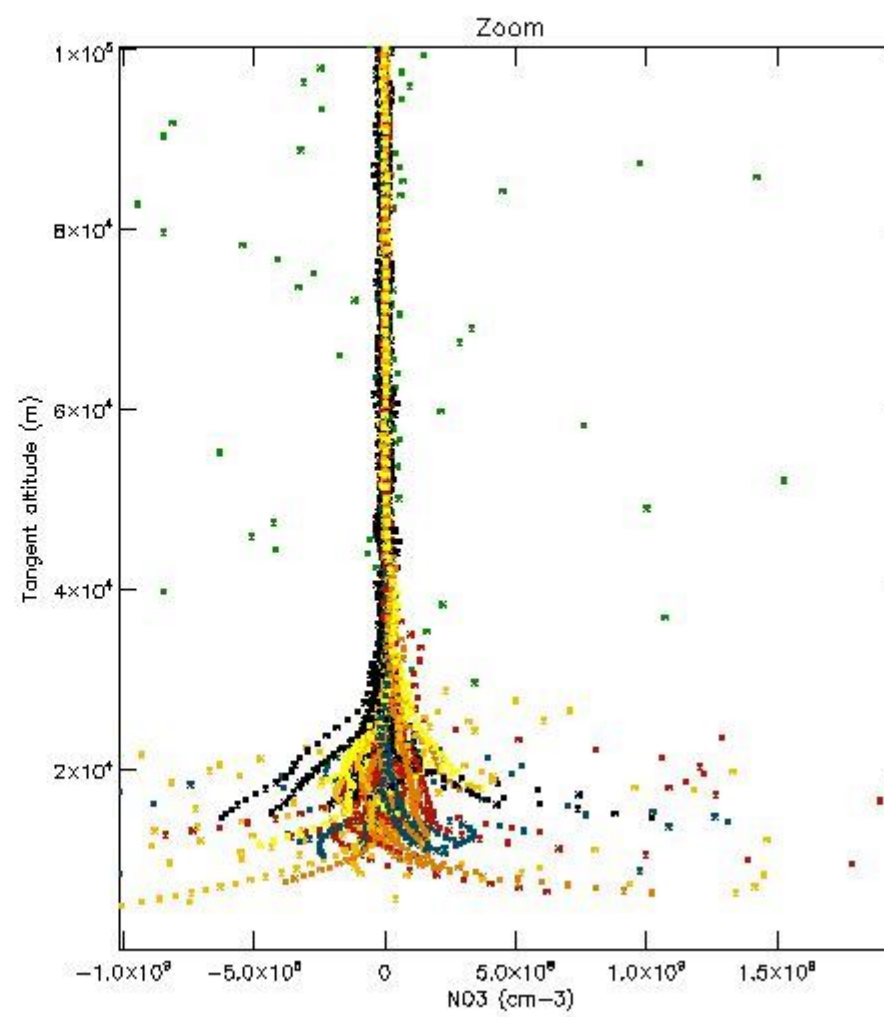
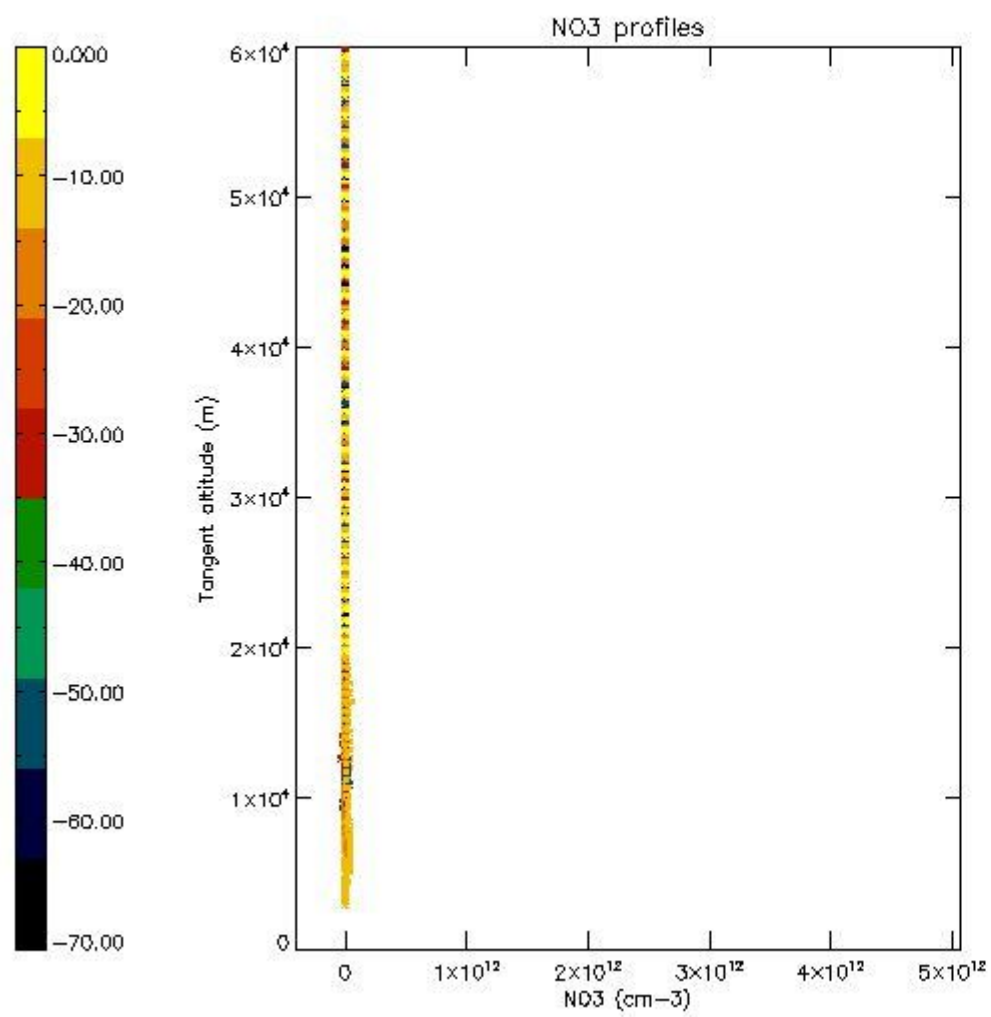
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



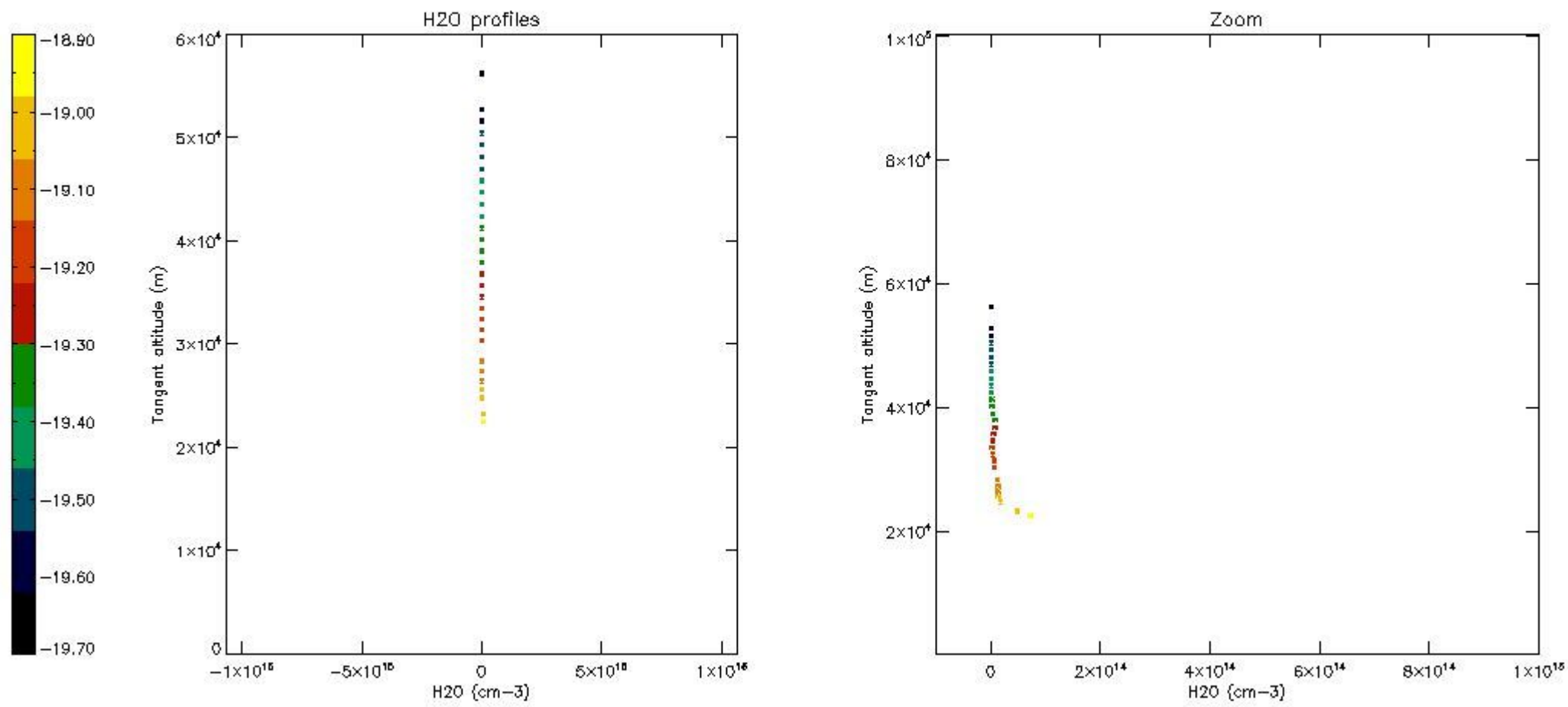
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

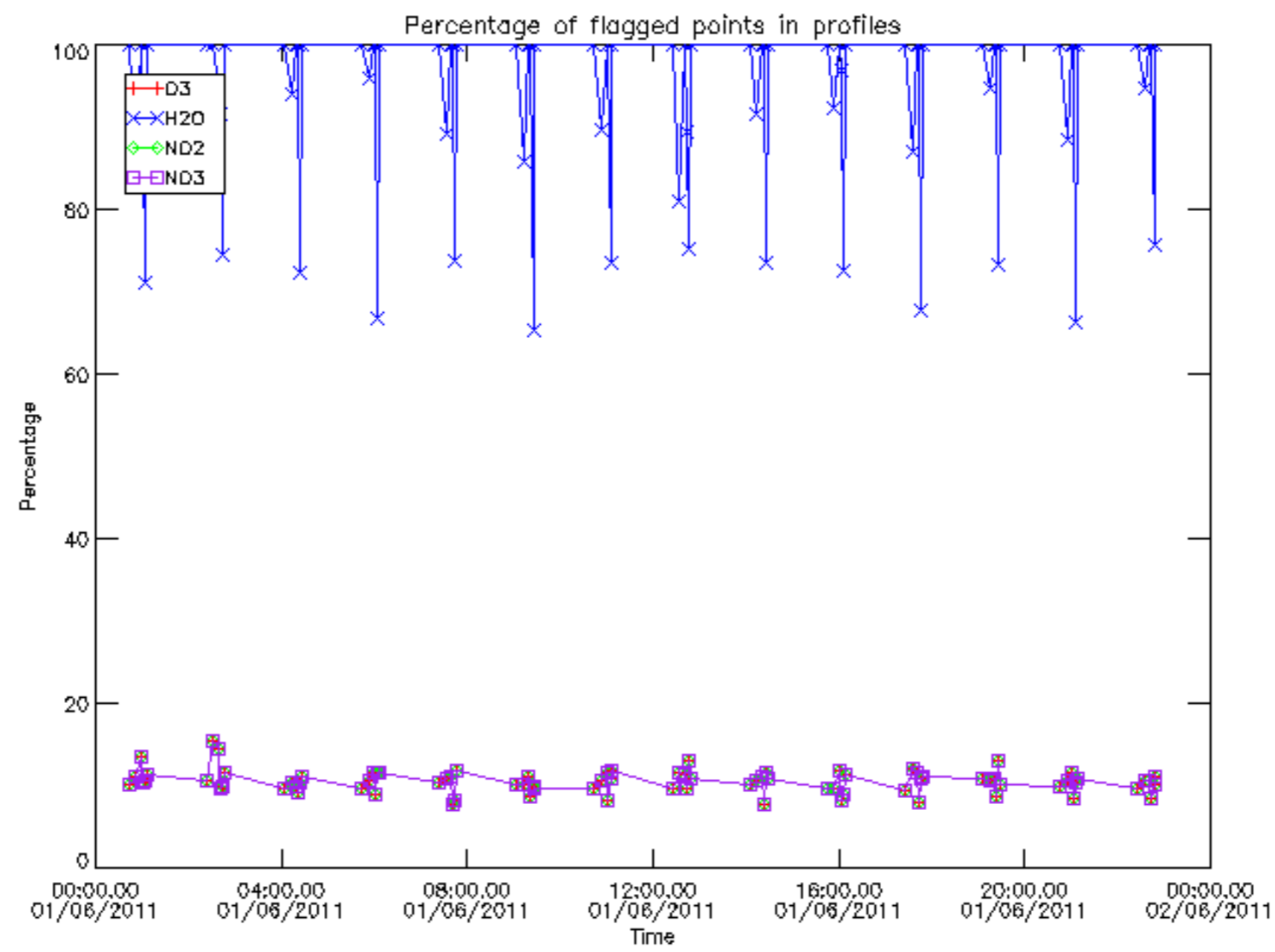
The colorbar represents the latitude.



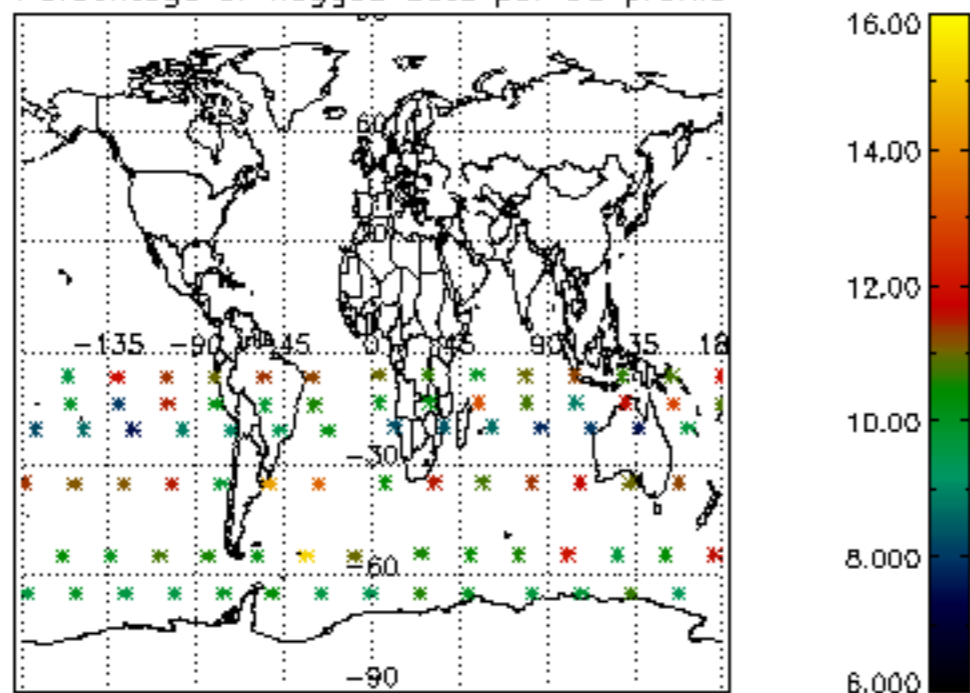
6. Auxiliary Data Files used for the production reported in section 2

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.

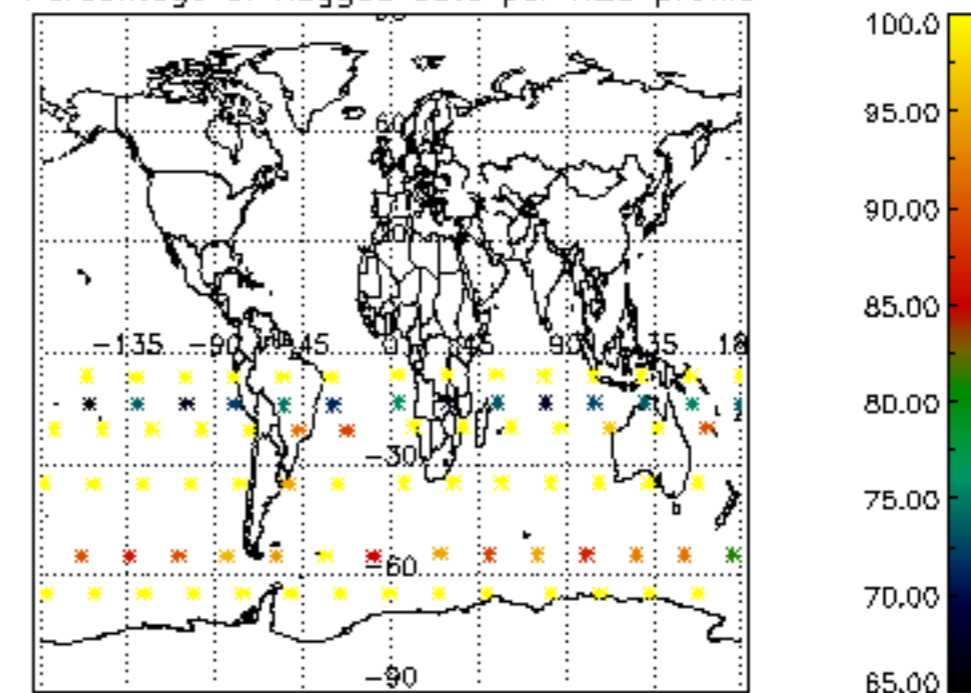
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	01-JUN-2011 00:00:49
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	01-JUN-2011 00:00:49
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	01-JUN-2011 00:00:49



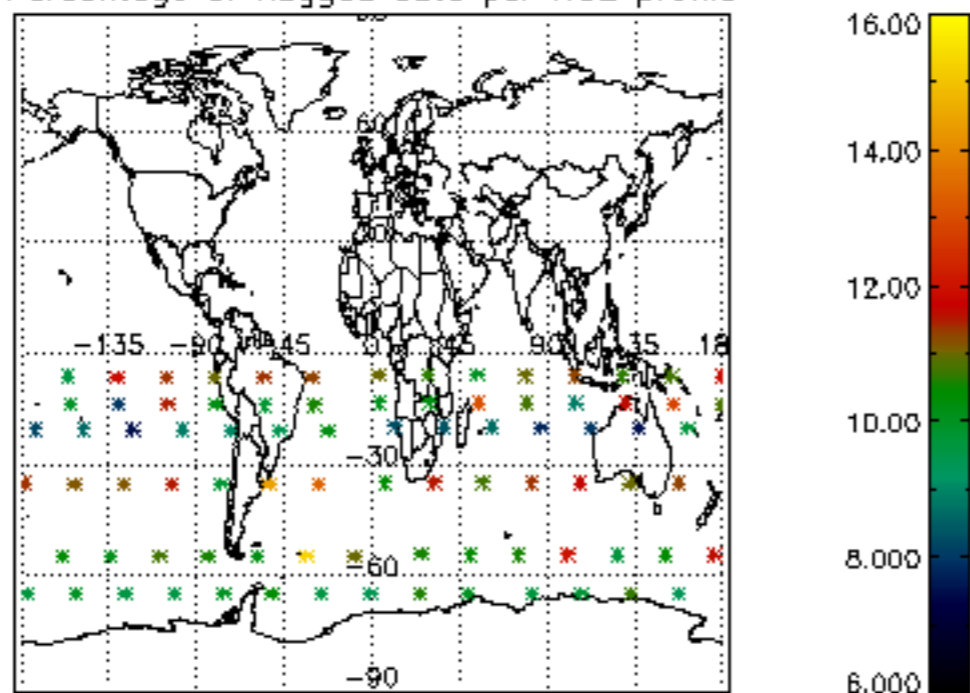
Percentage of flagged data per D3 profile



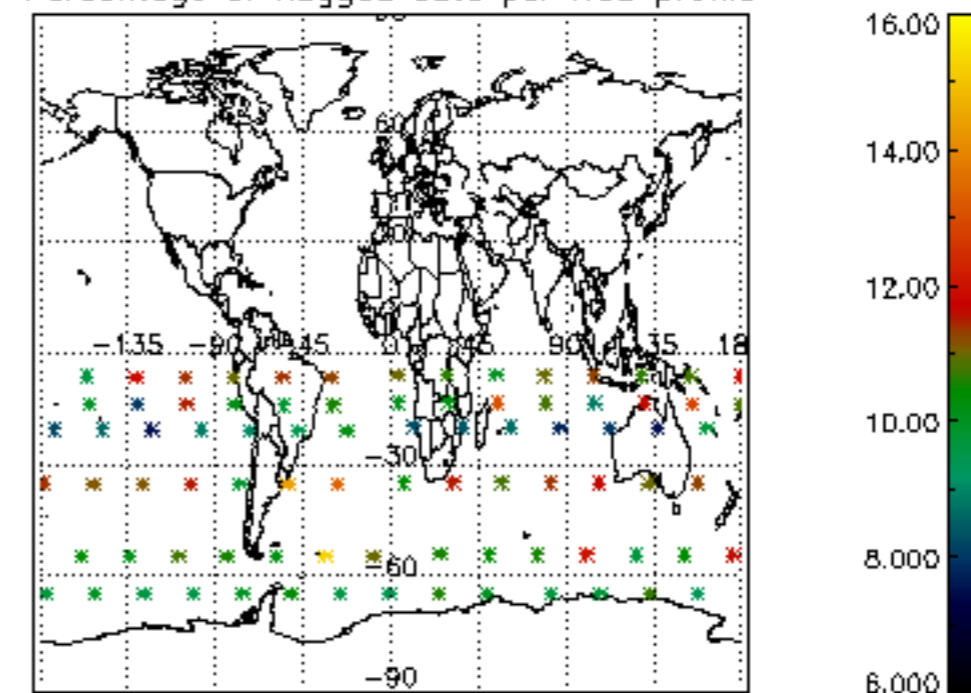
Percentage of flagged data per H2O profile

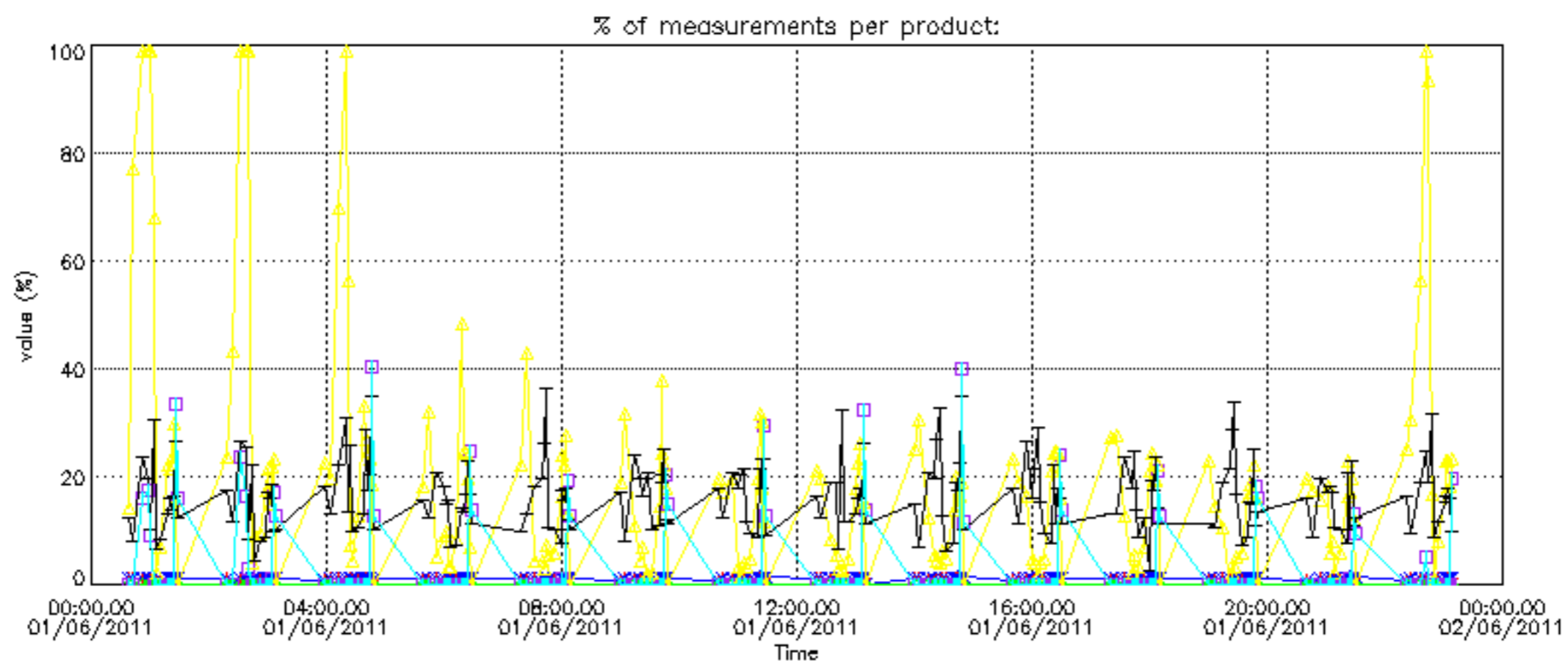
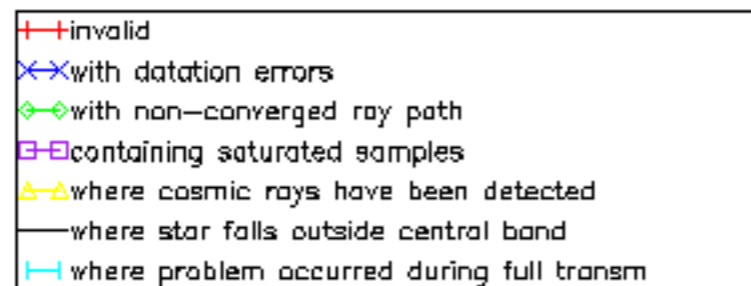


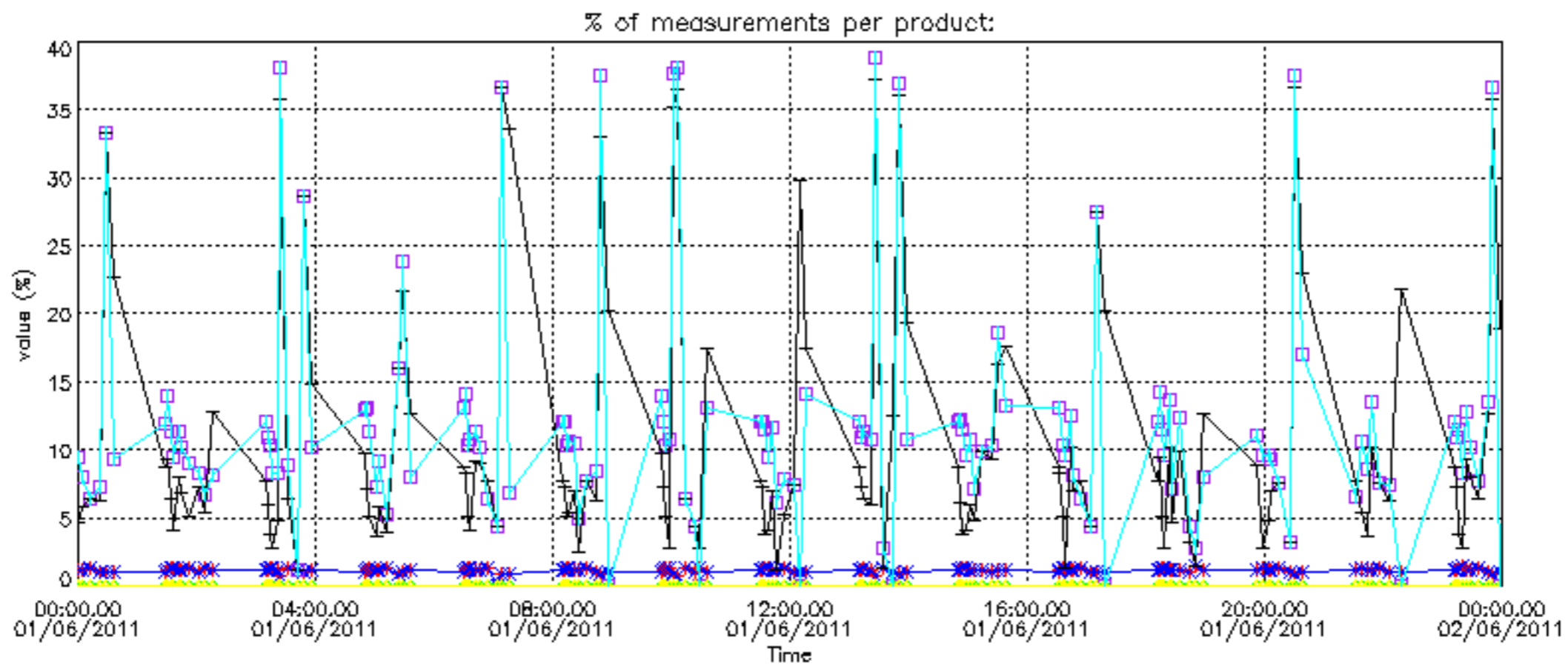
Percentage of flagged data per NO2 profile



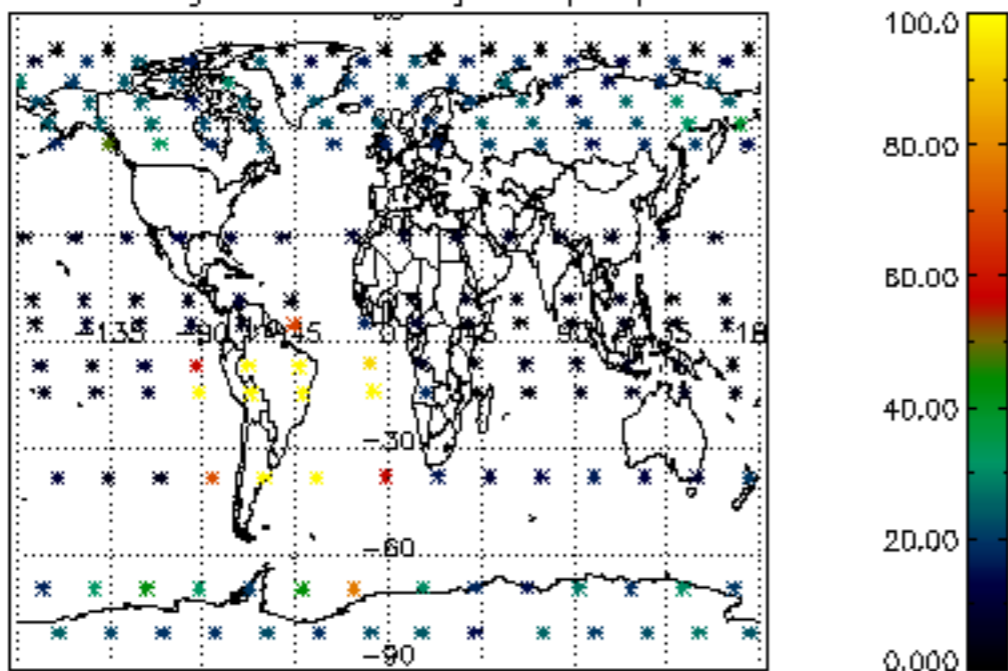
Percentage of flagged data per NO3 profile



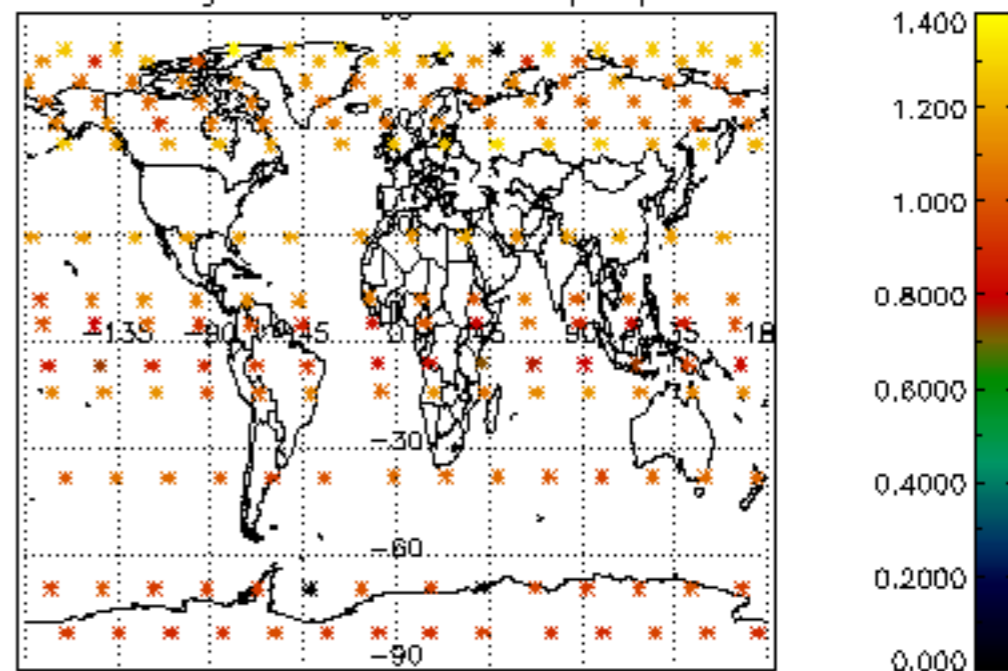




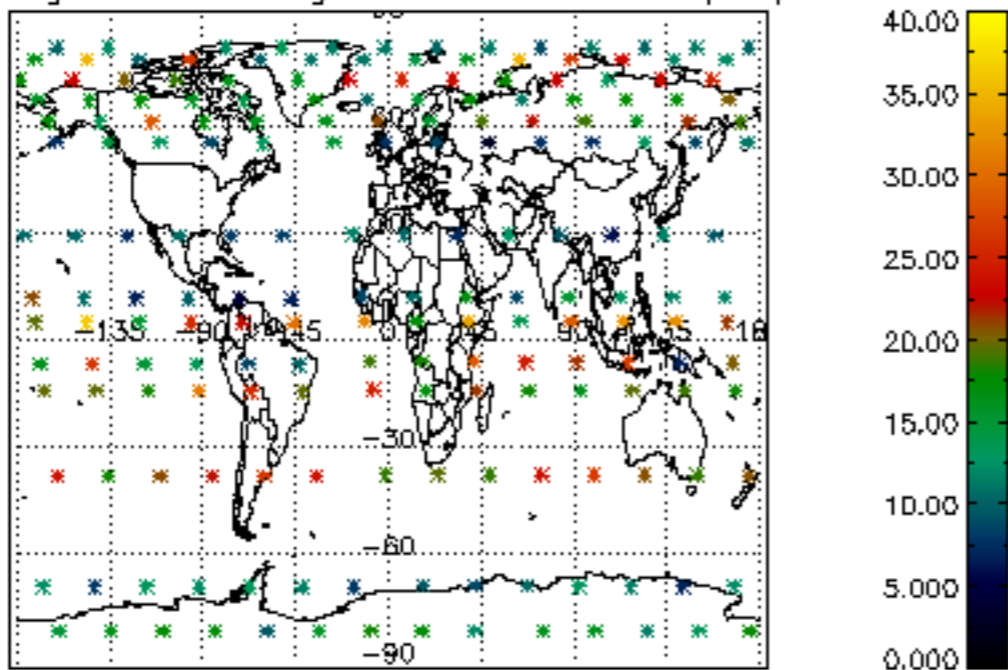
Percentage of cosmic ray hits per profile



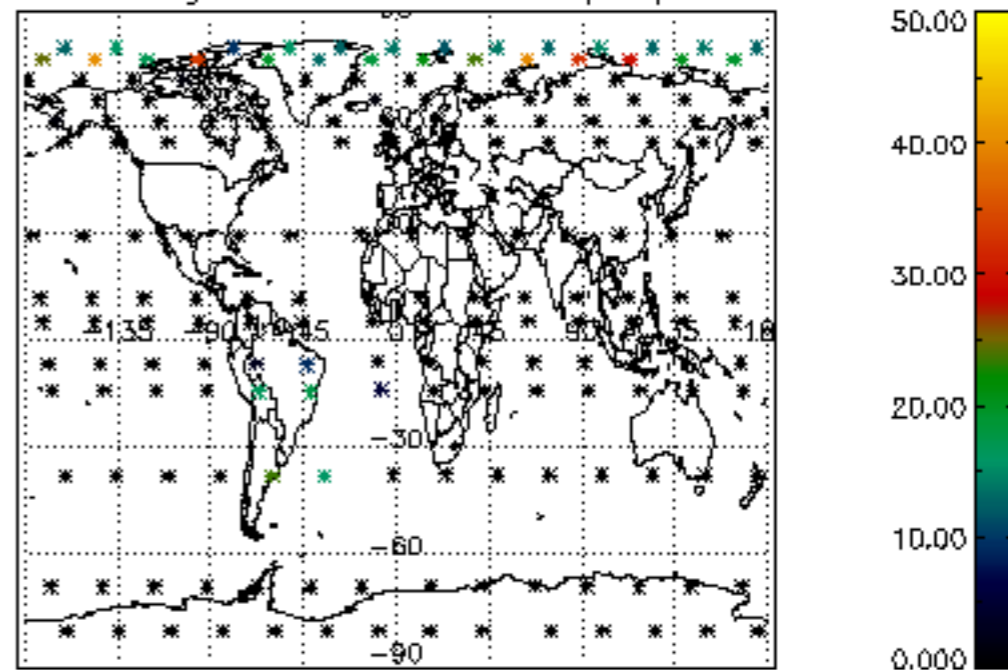
Percentage of datation errors per profile



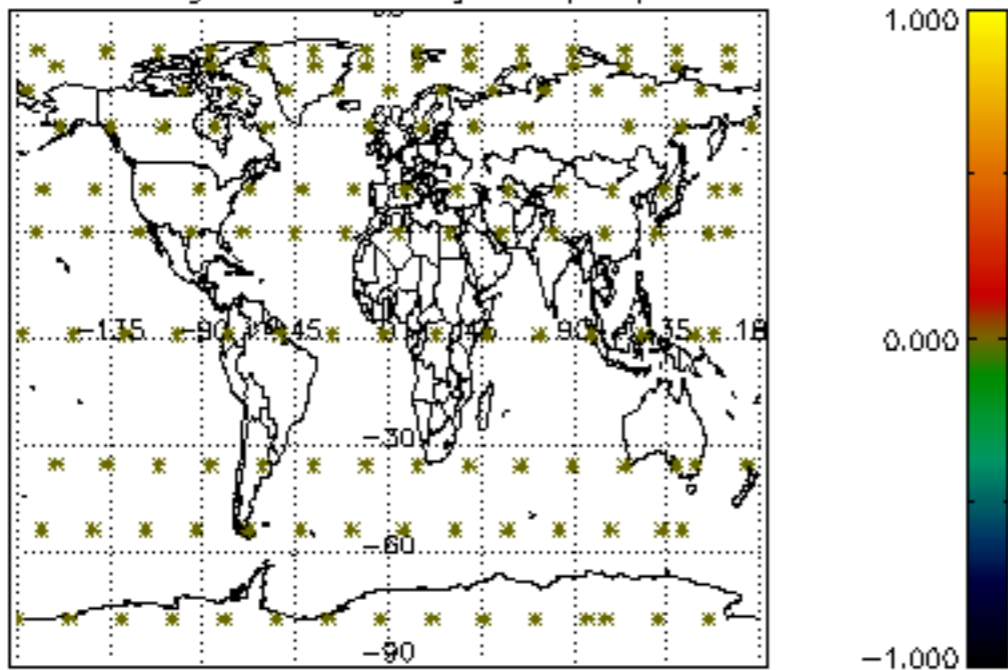
Percentage of star falling outside central band per profile



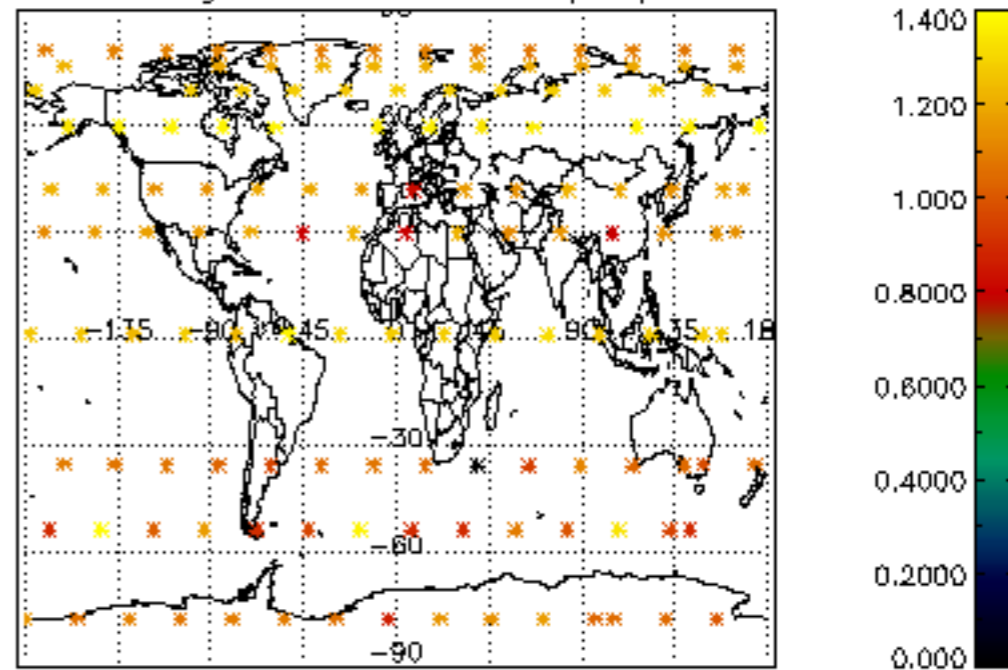
Percentage of saturation errors per profile



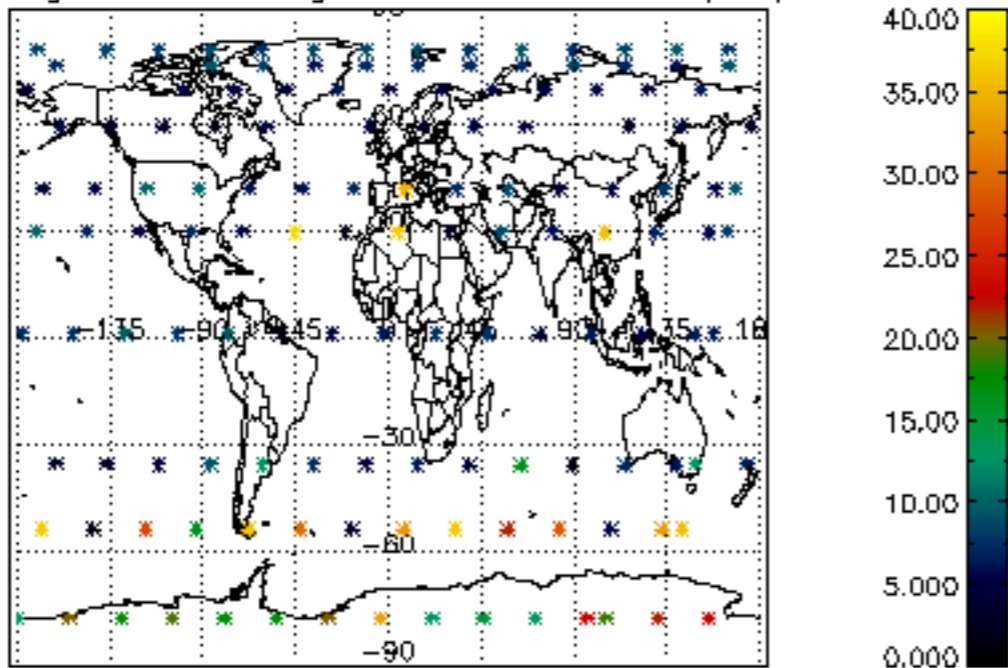
Percentage of cosmic ray hits per profile



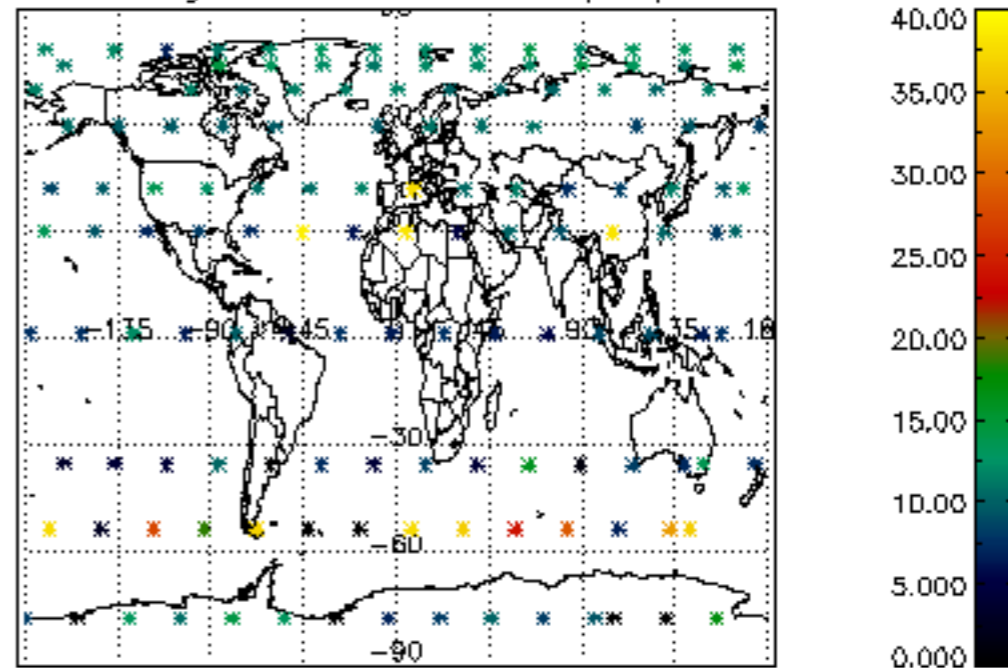
Percentage of datation errors per profile

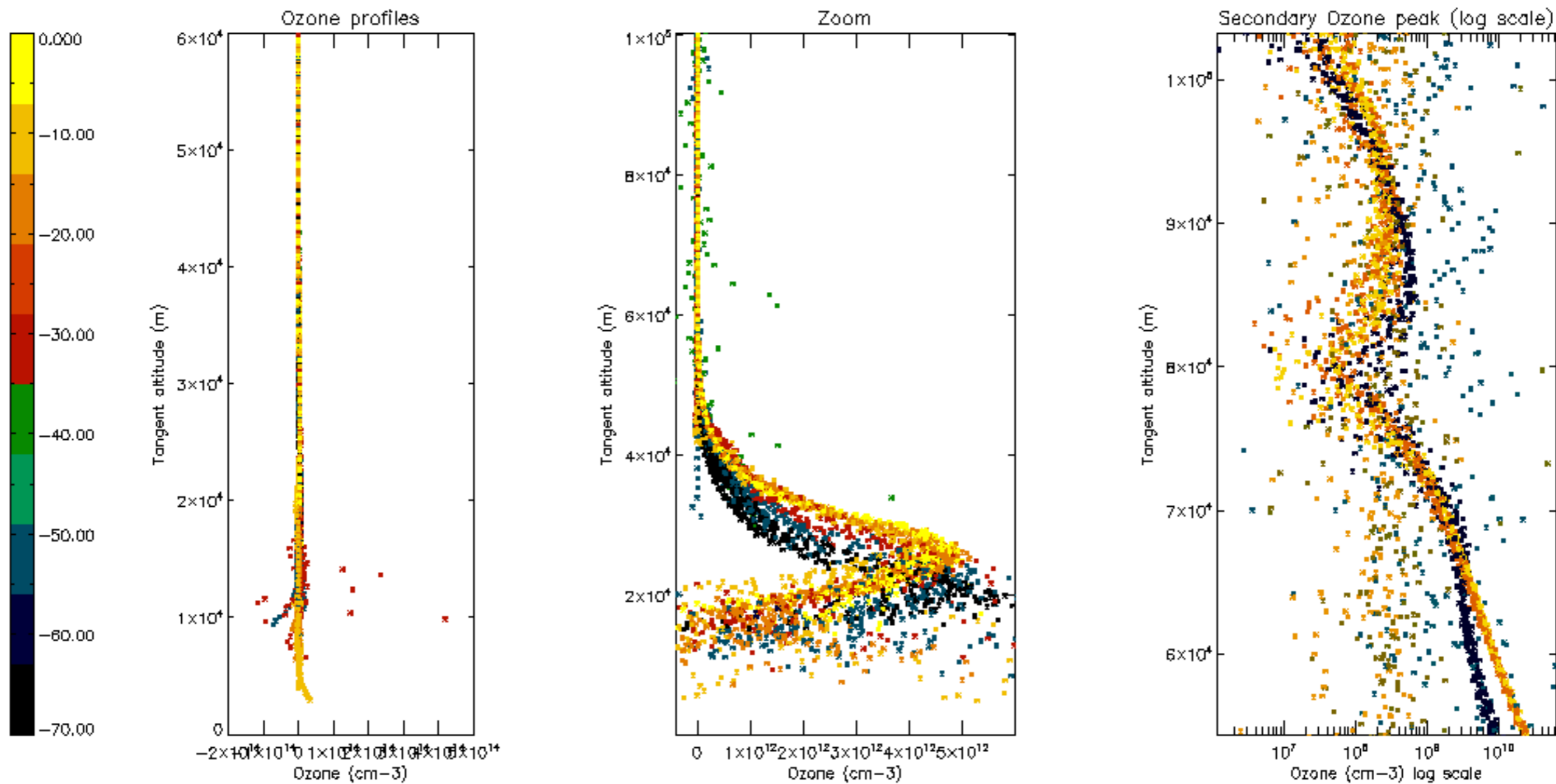


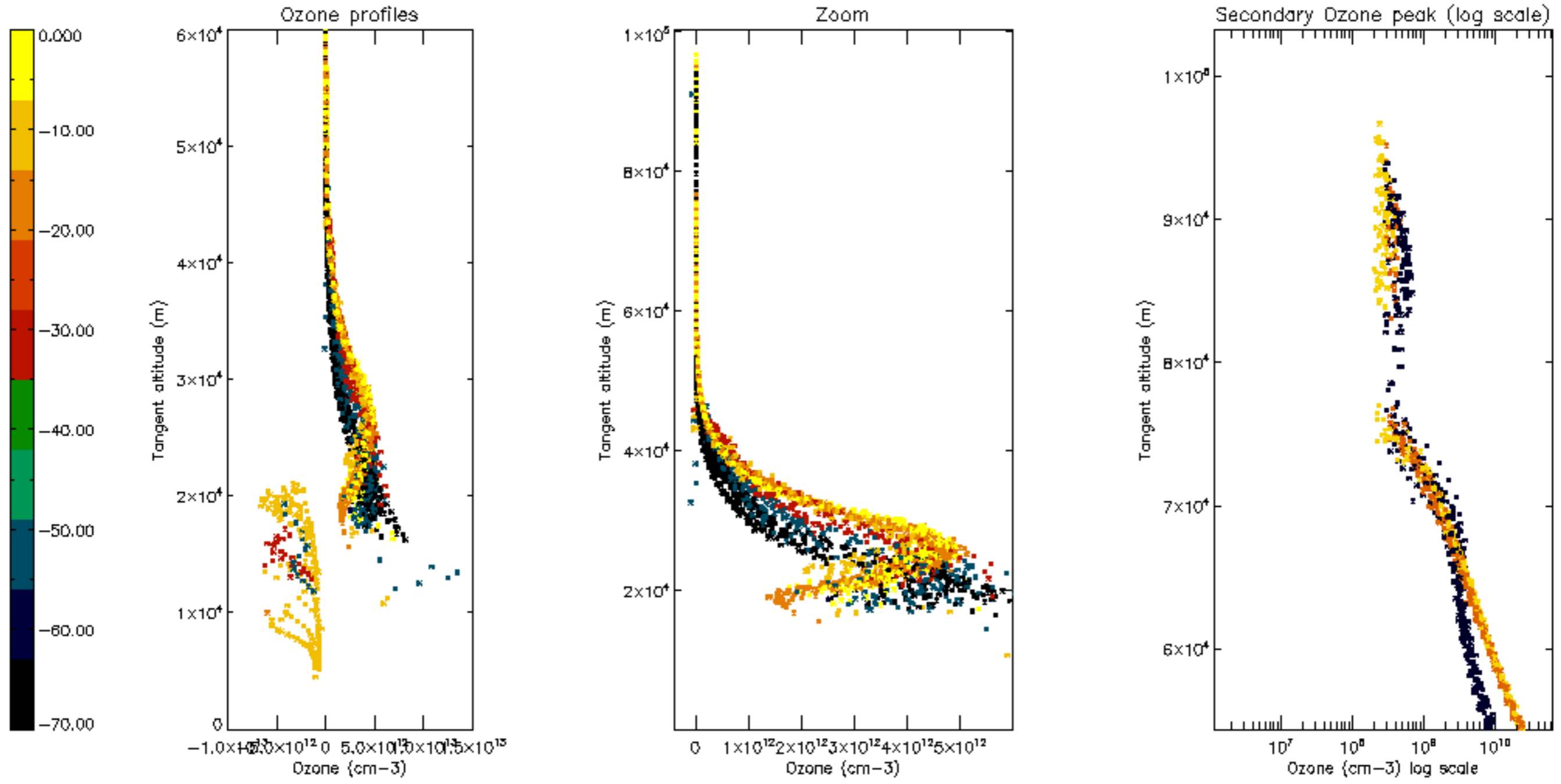
Percentage of star falling outside central band per profile

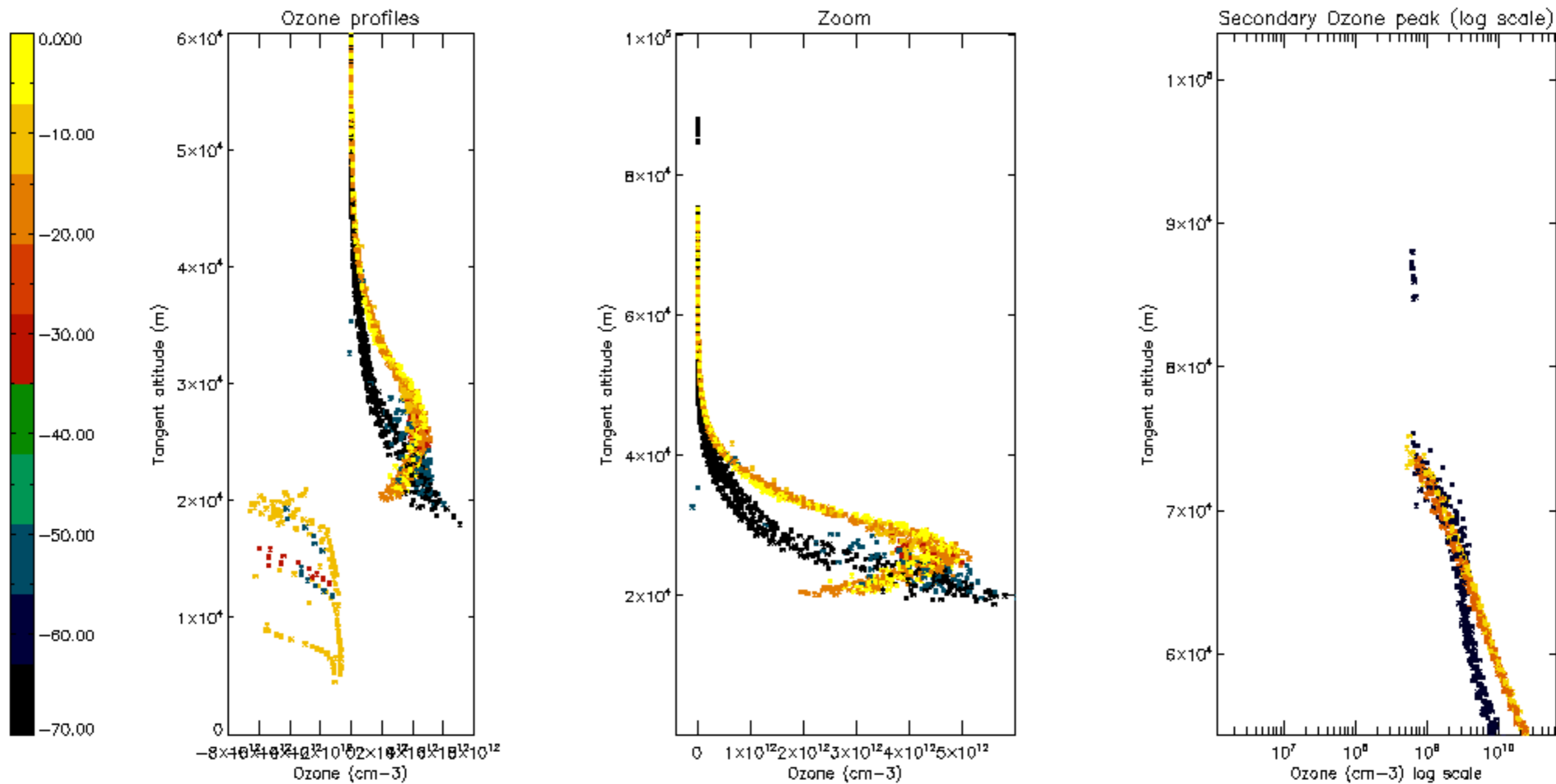


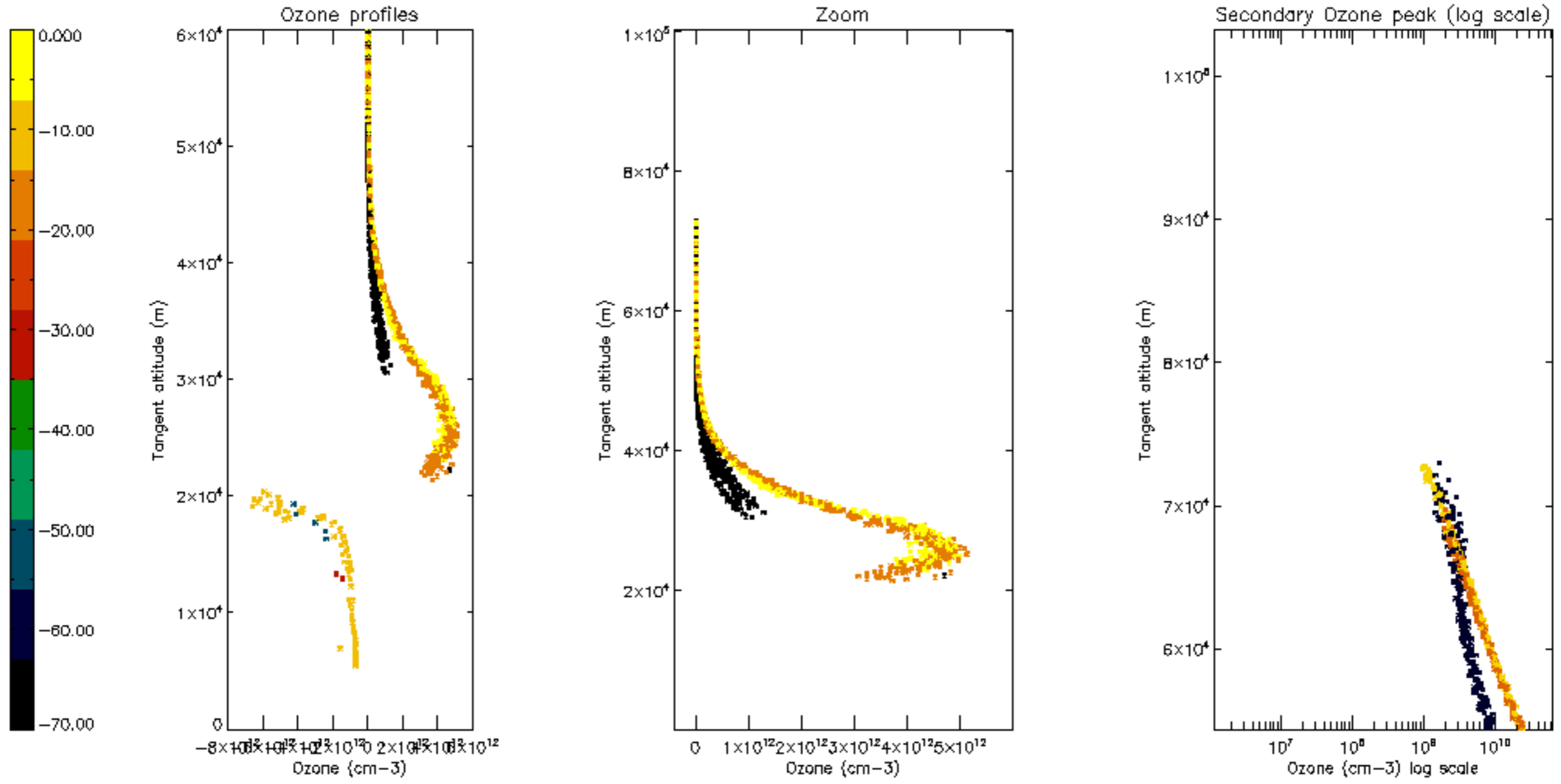
Percentage of saturation errors per profile

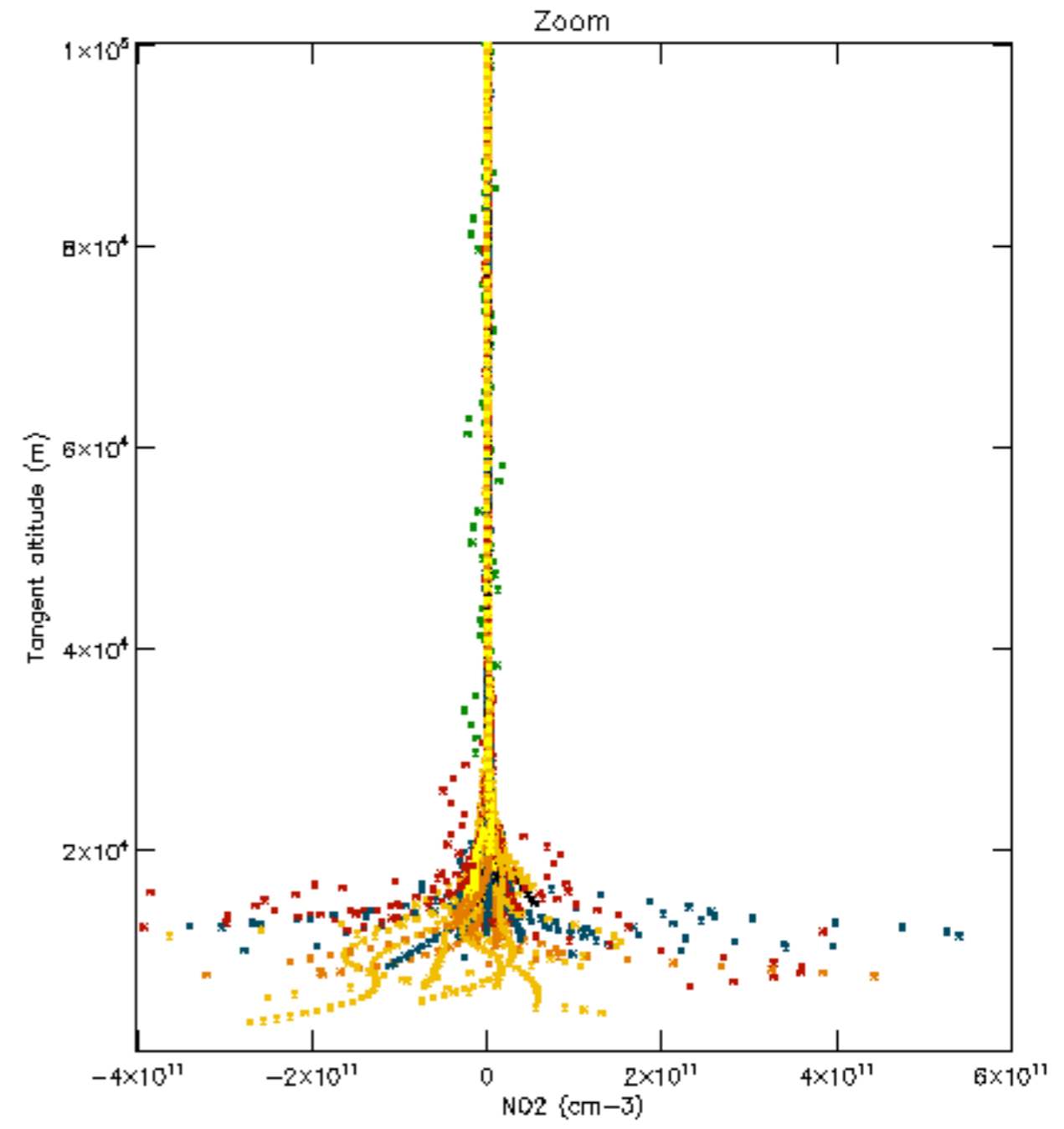
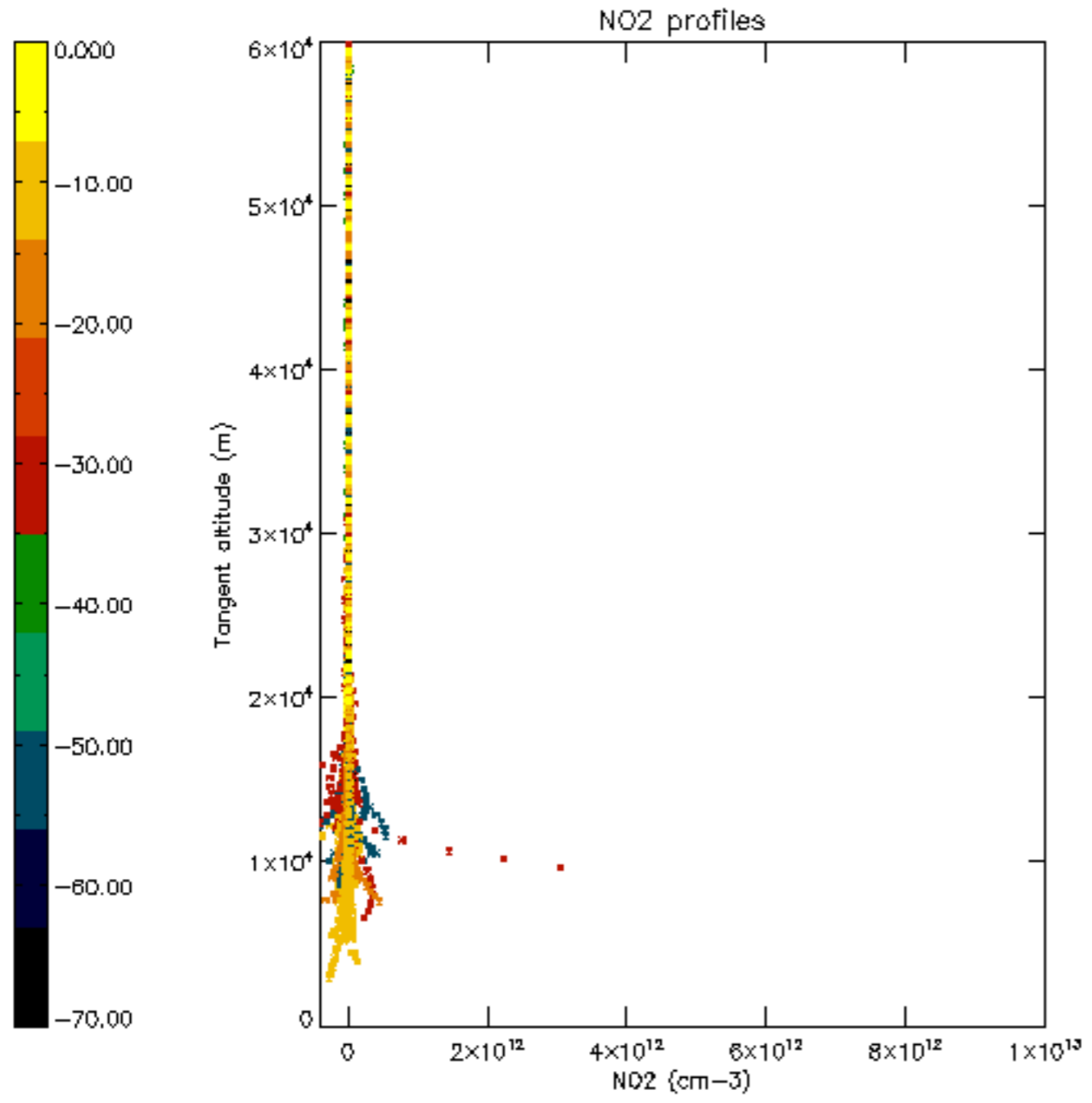


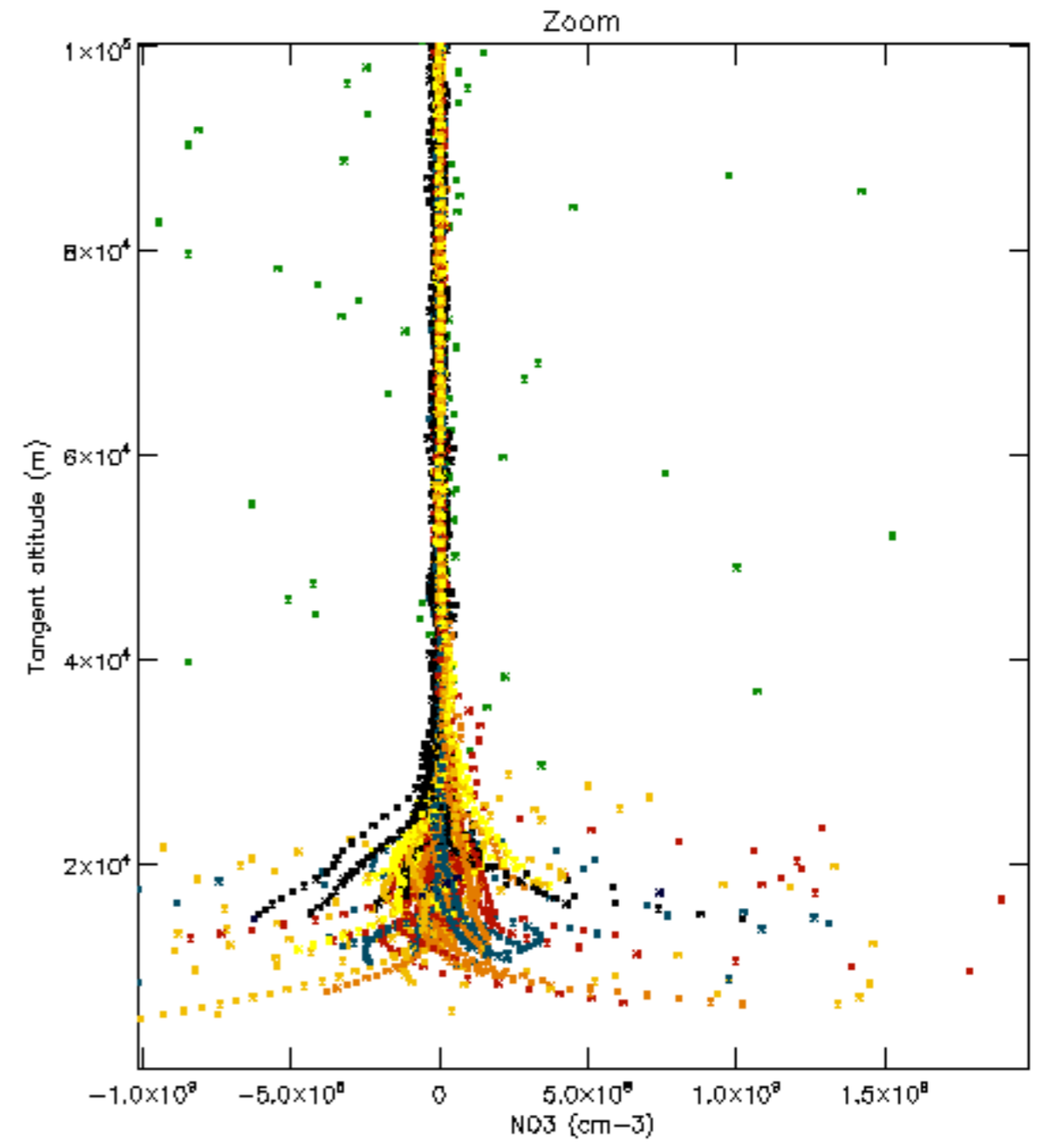
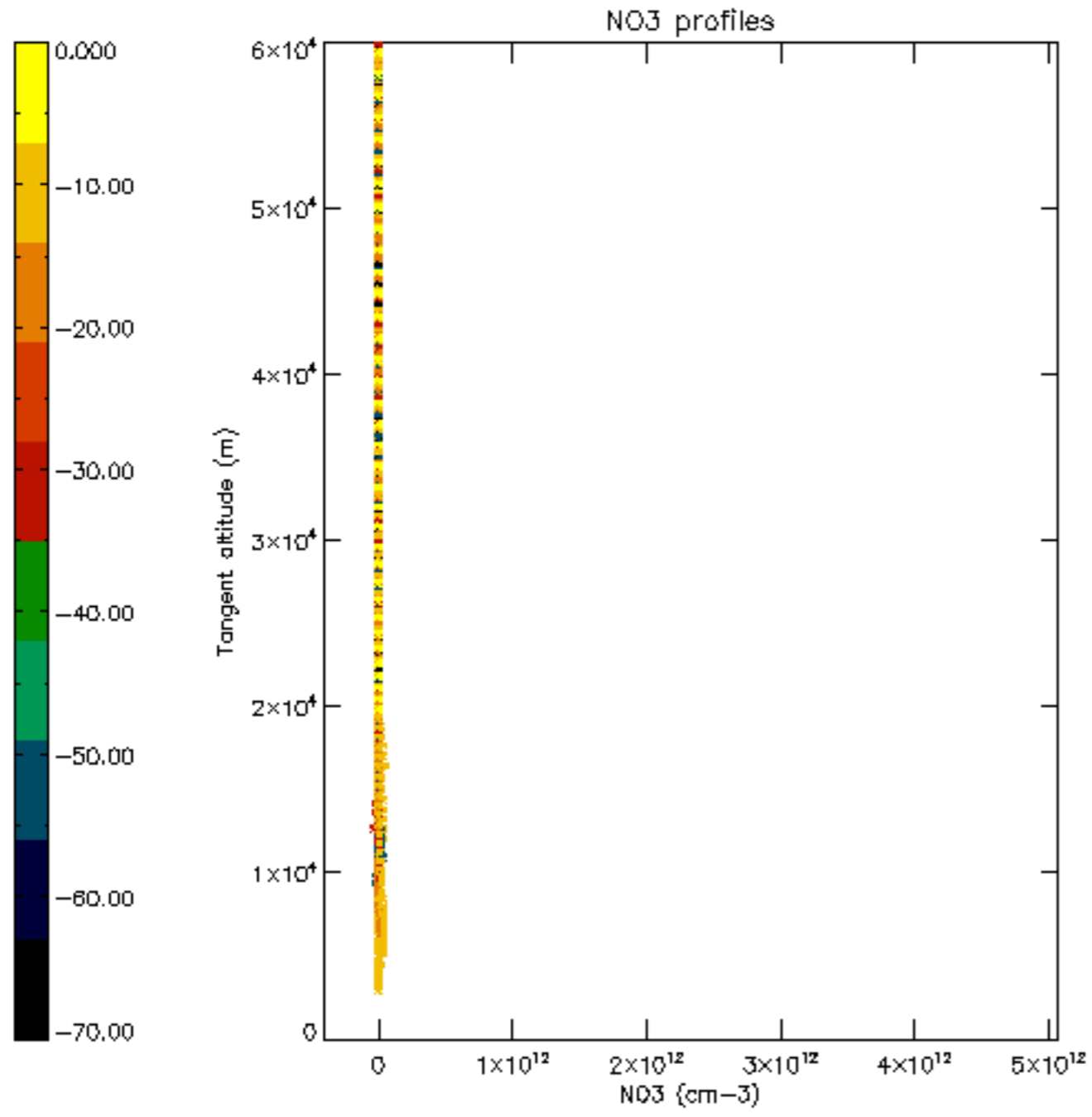


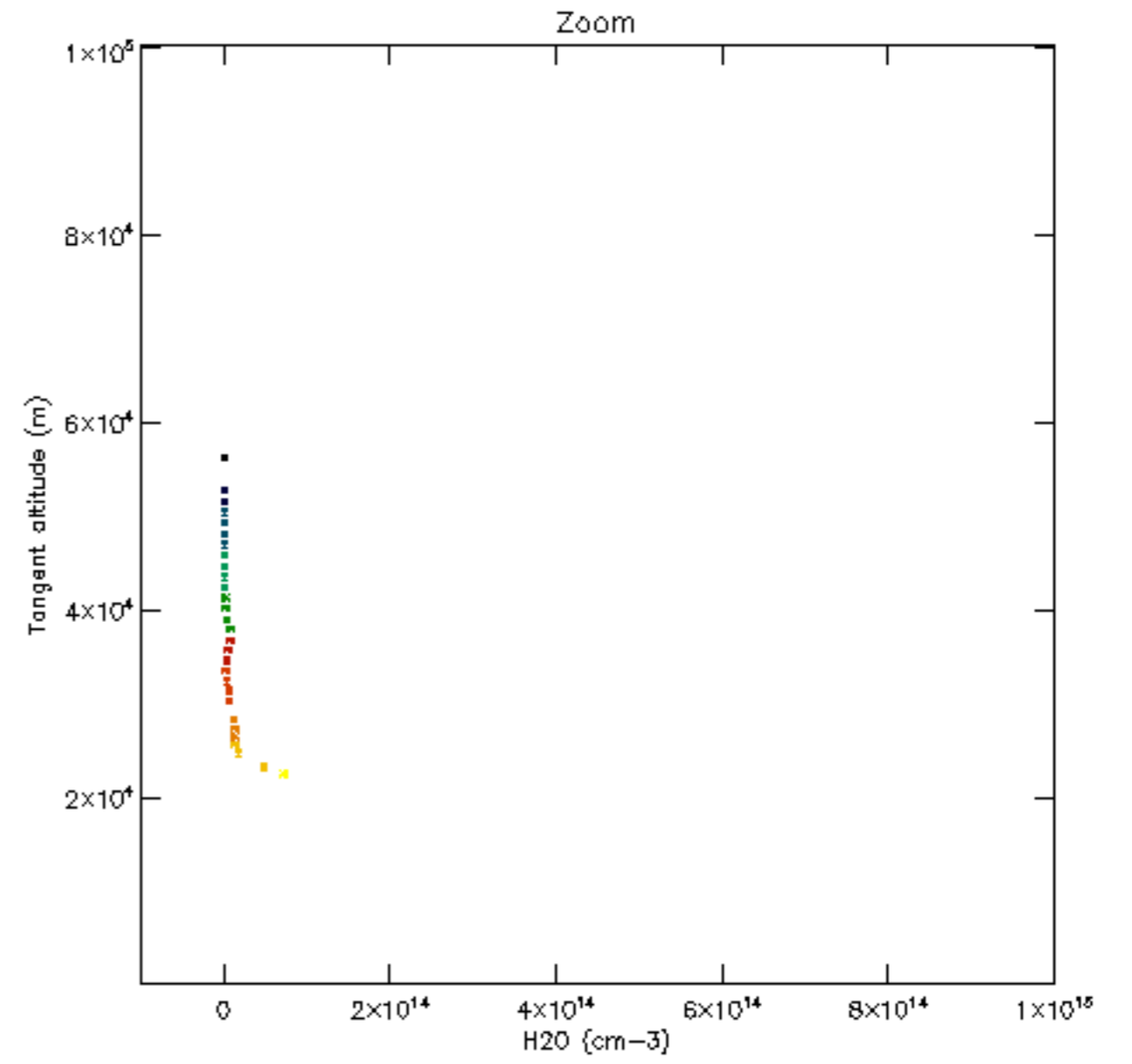
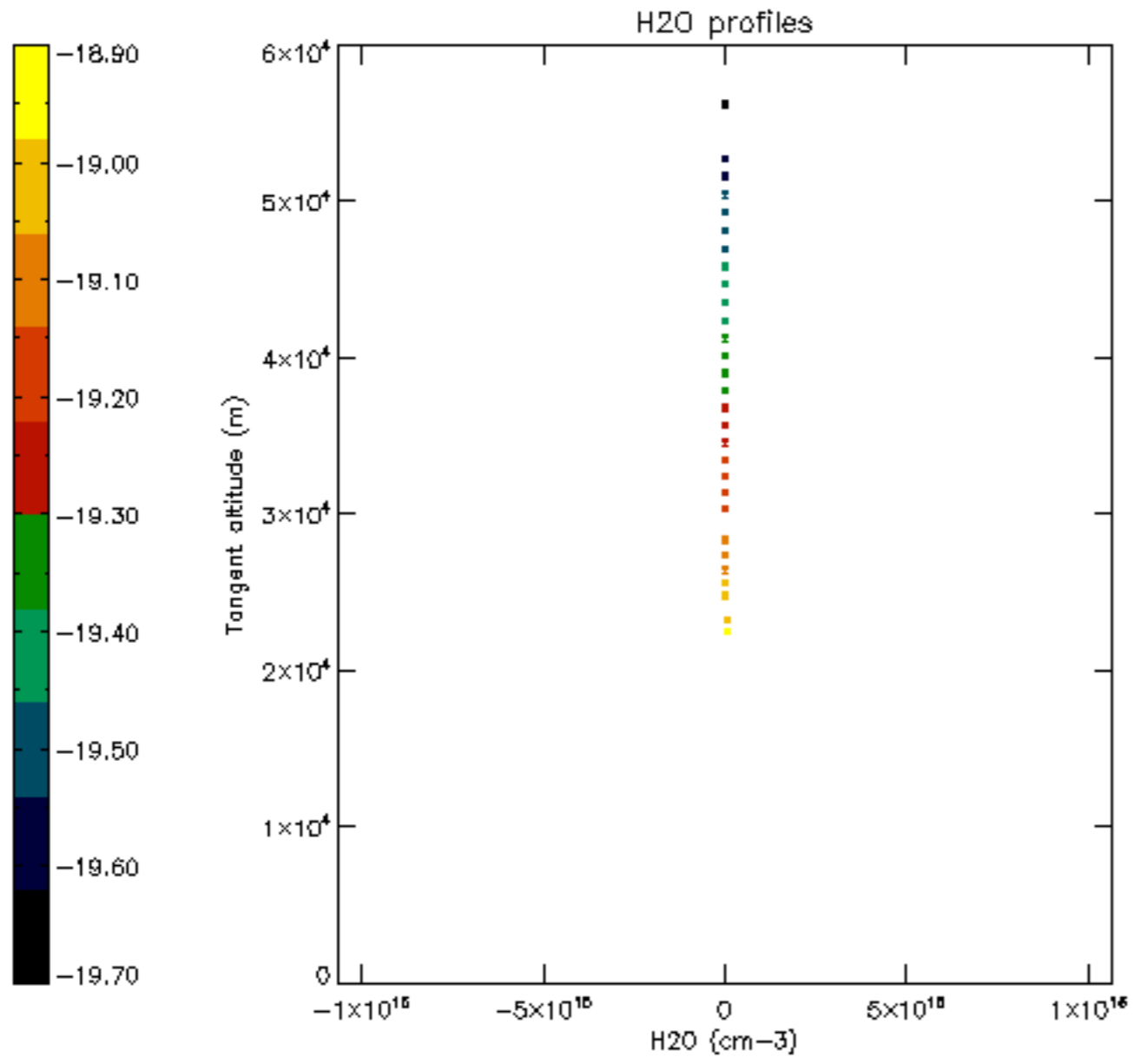


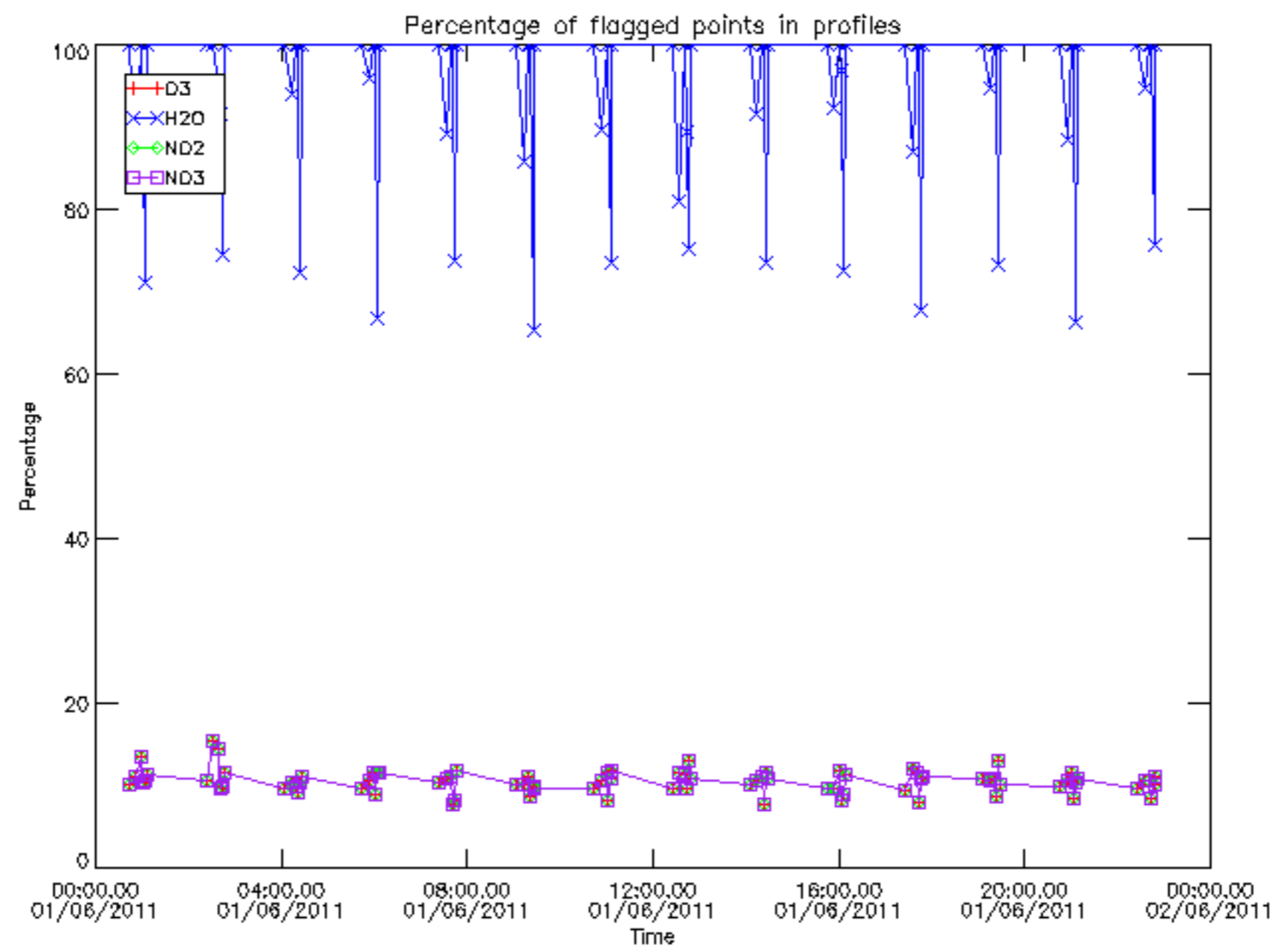




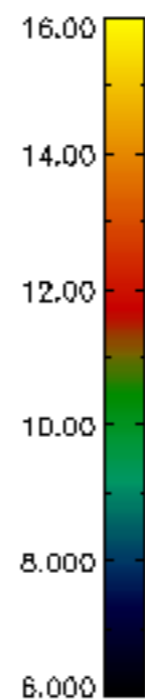
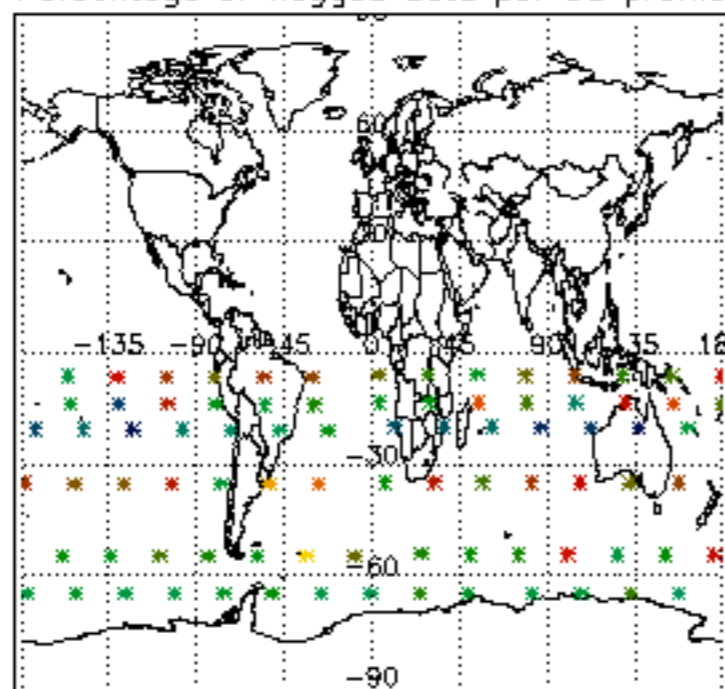




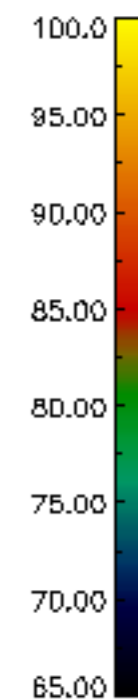
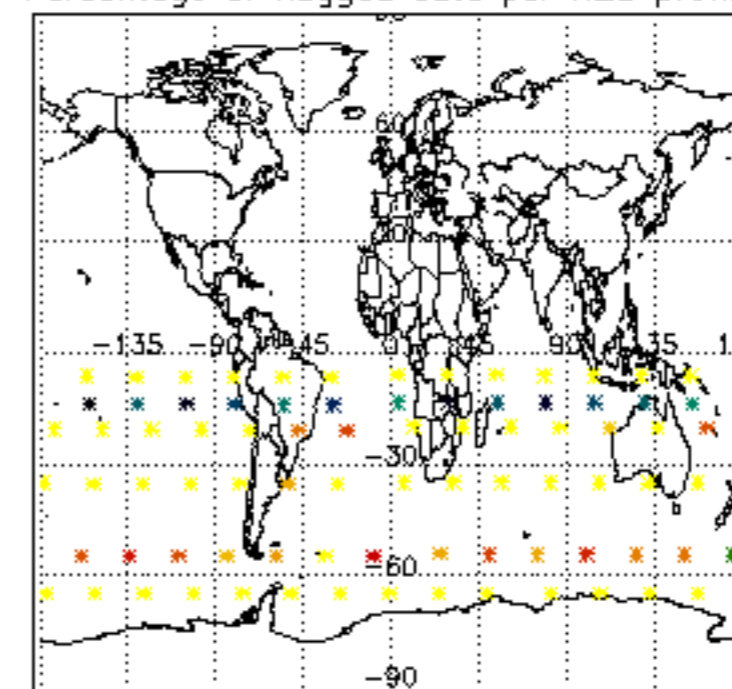




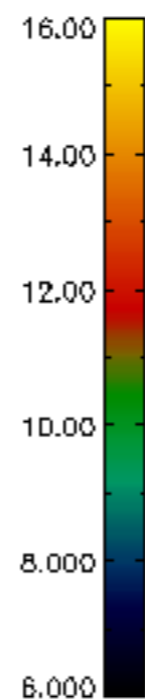
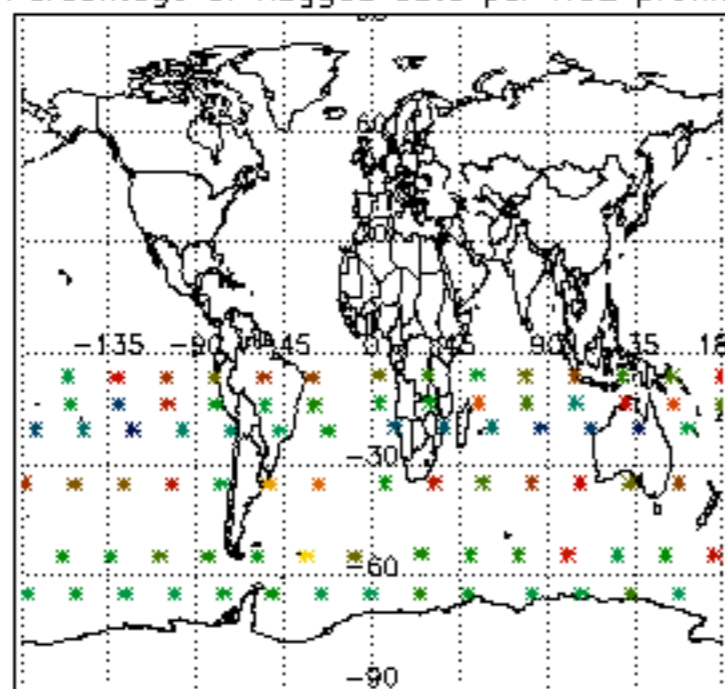
Percentage of flagged data per D3 profile



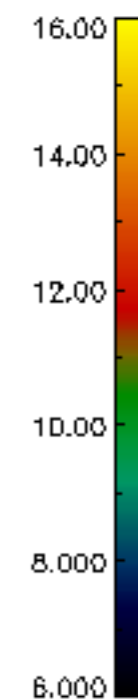
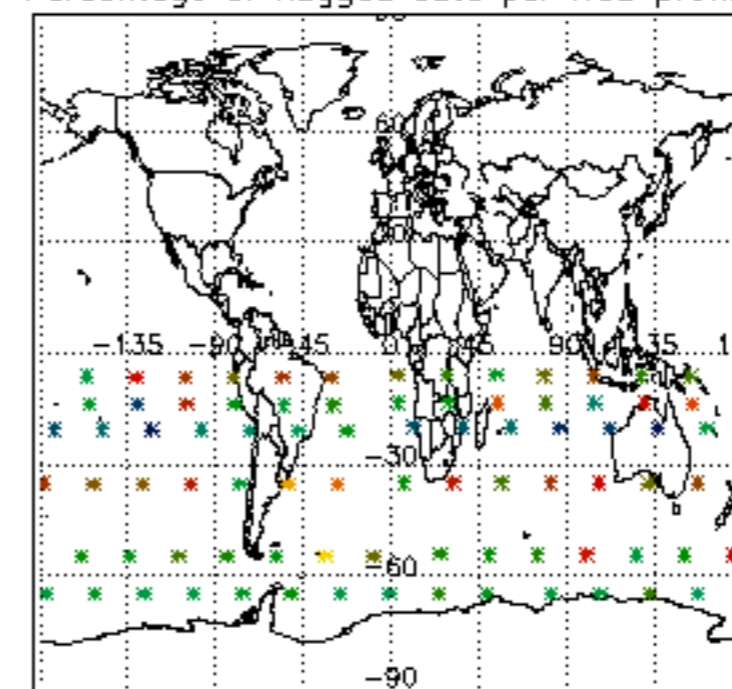
Percentage of flagged data per H2O profile

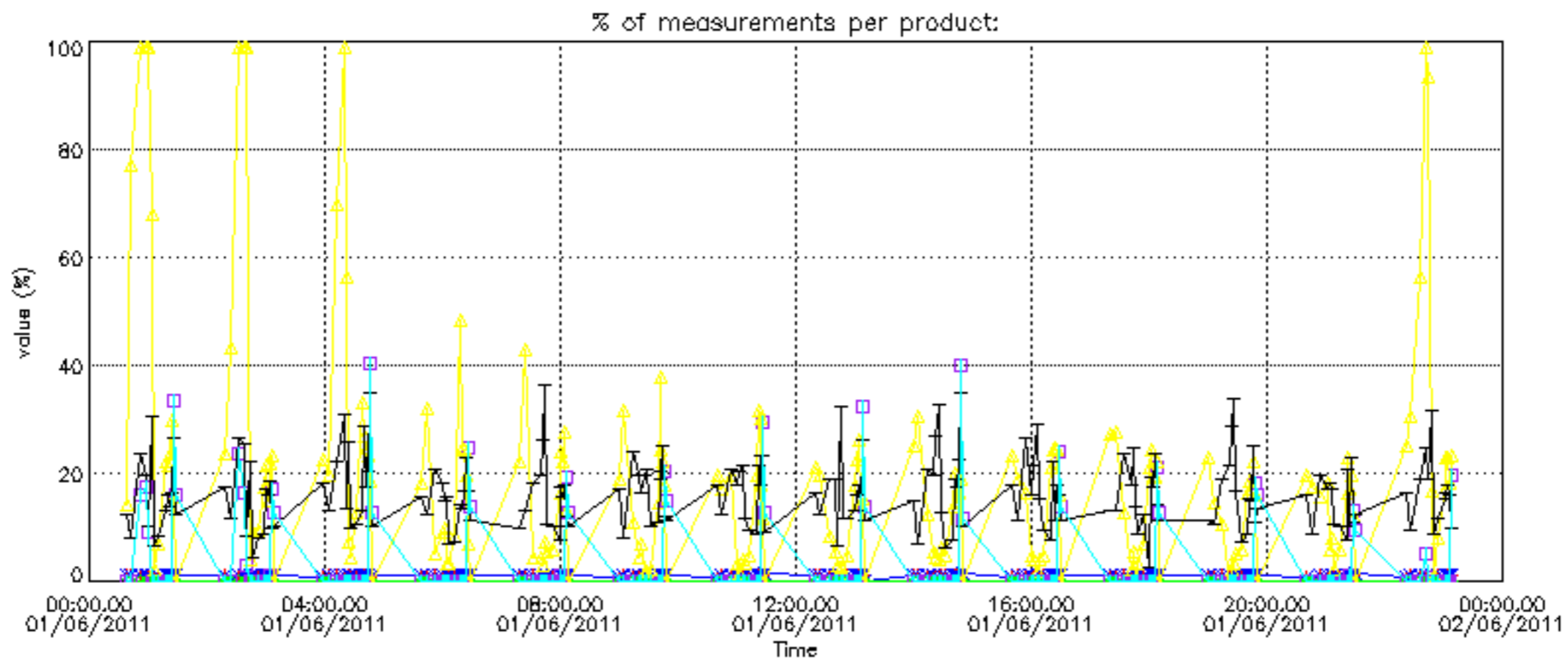


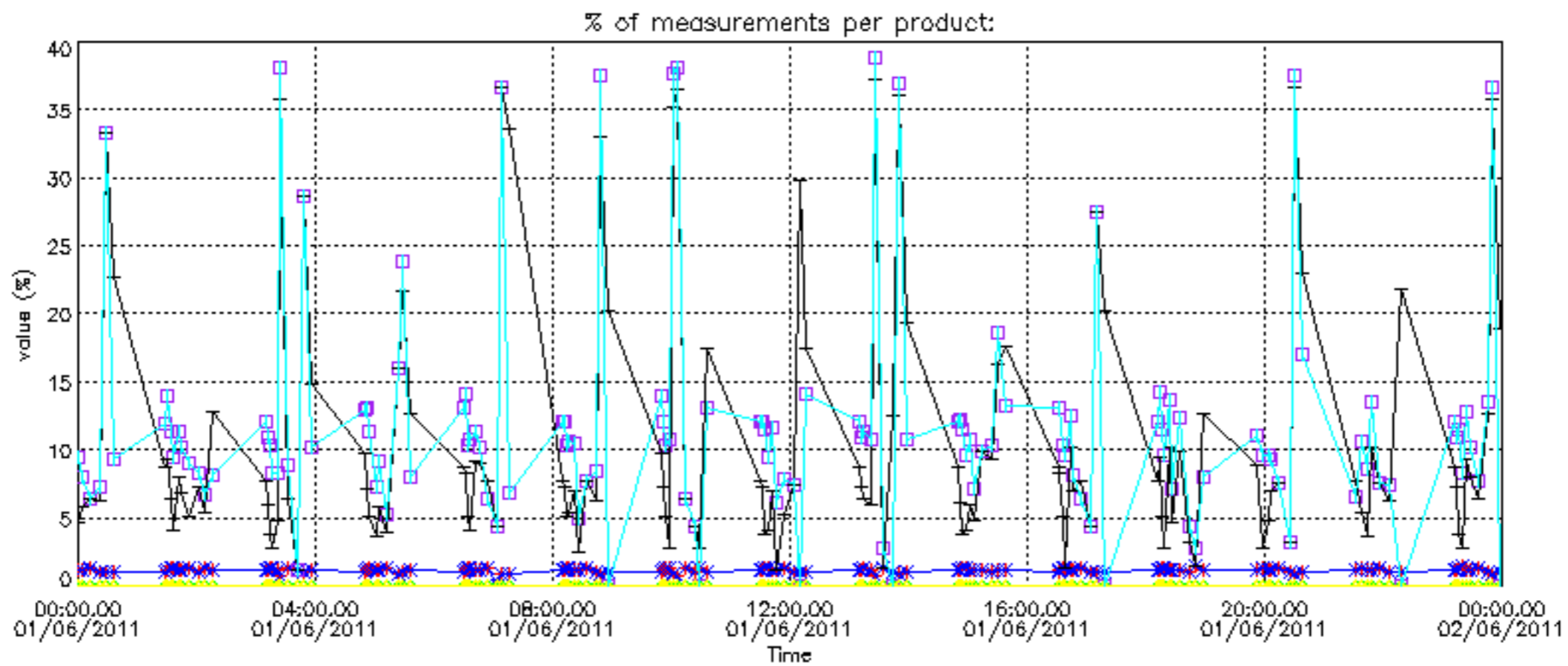
Percentage of flagged data per NO2 profile



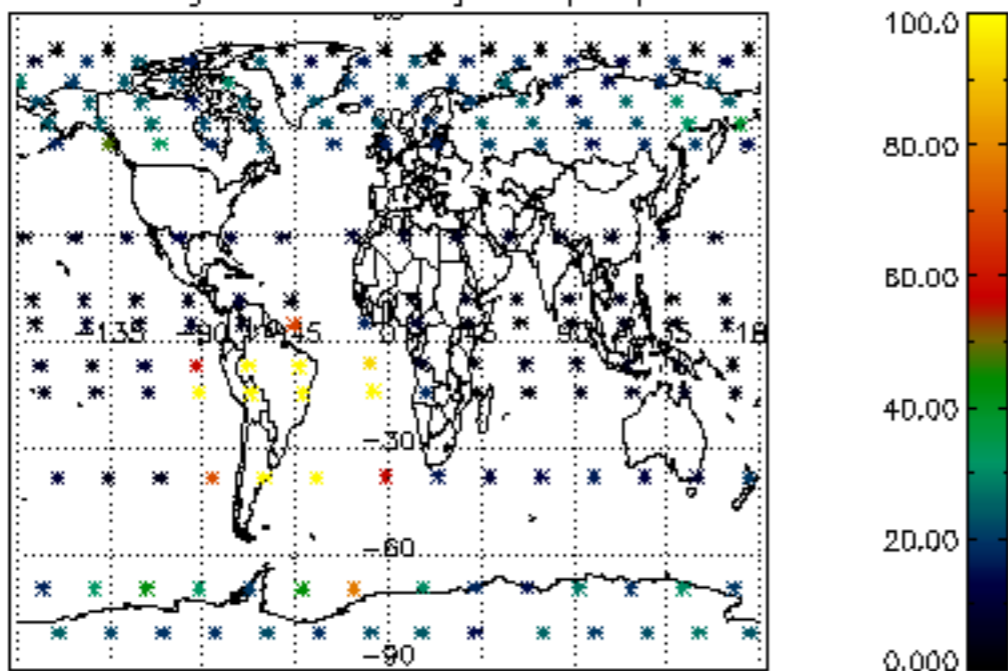
Percentage of flagged data per NO3 profile



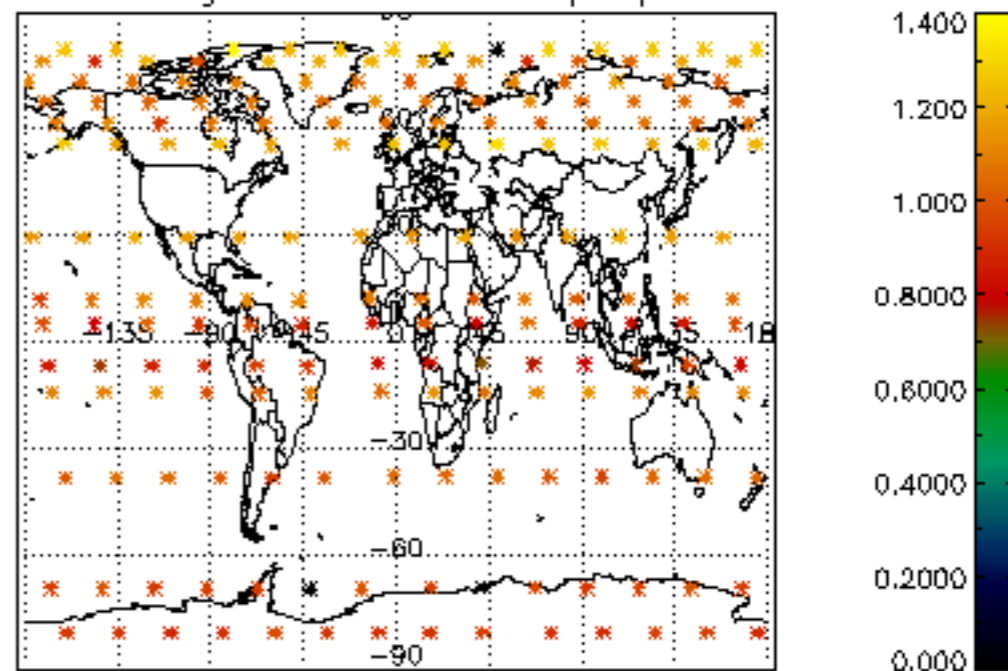




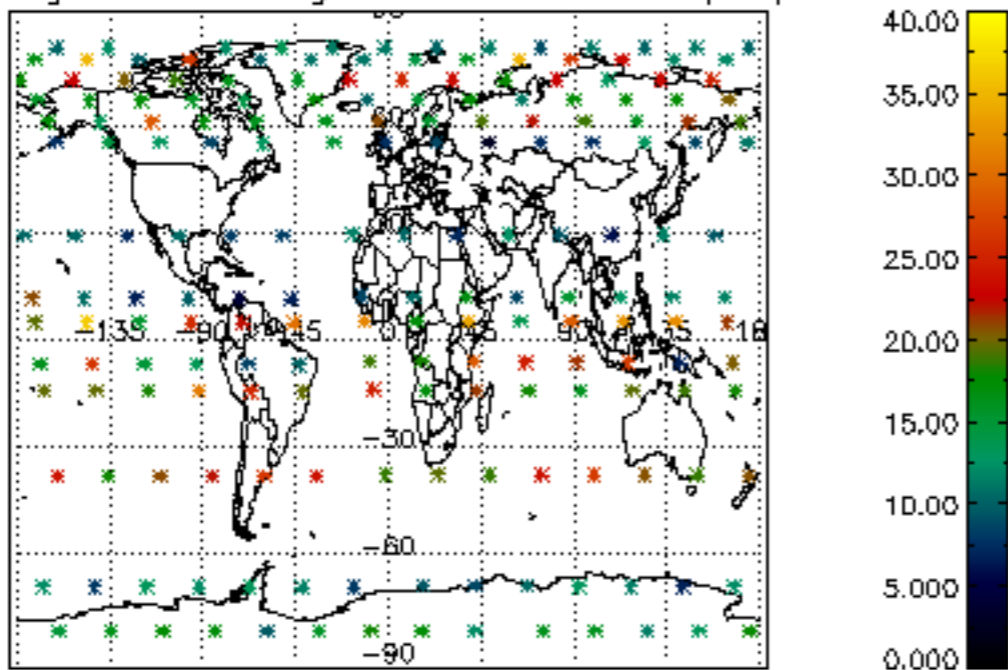
Percentage of cosmic ray hits per profile



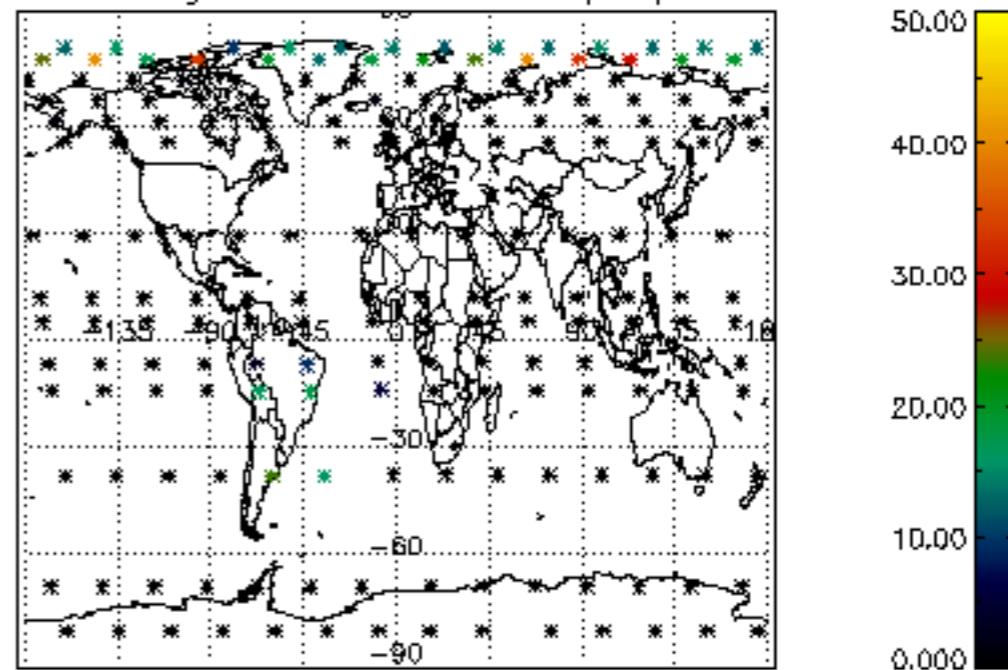
Percentage of datation errors per profile



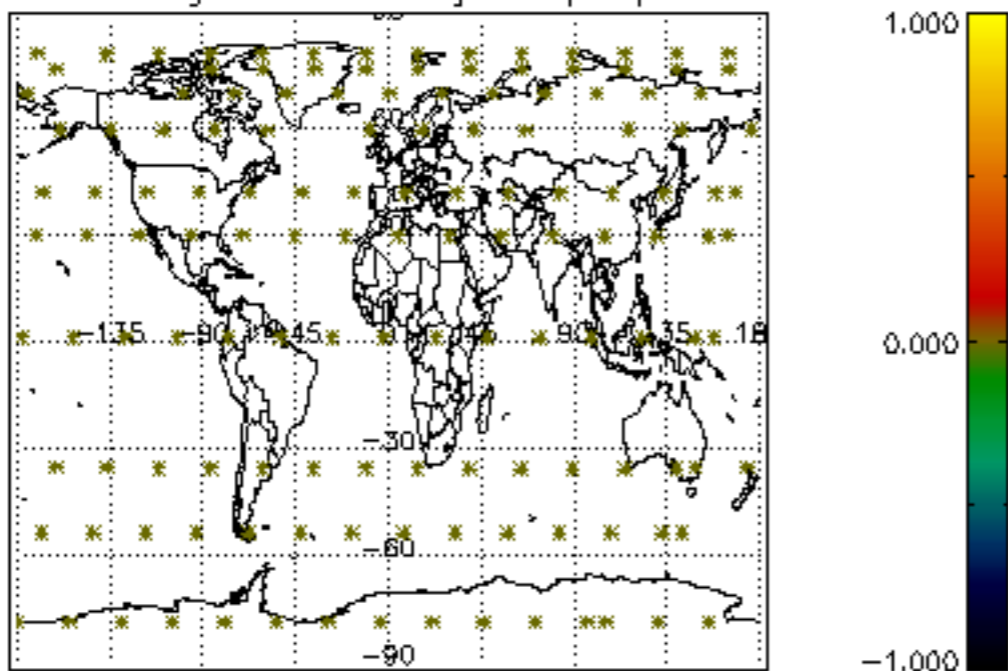
Percentage of star falling outside central band per profile



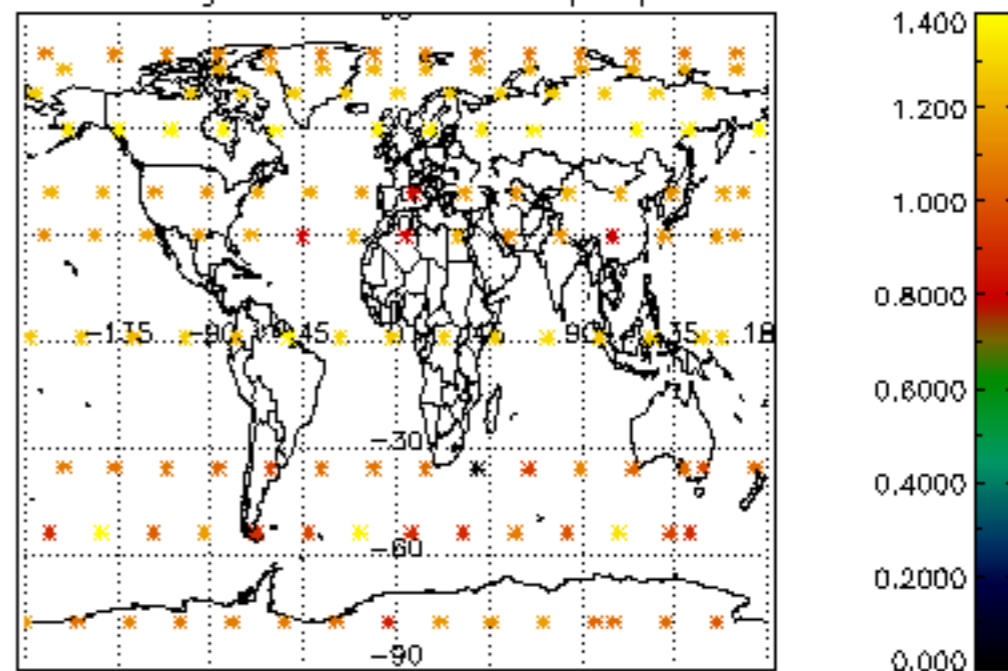
Percentage of saturation errors per profile



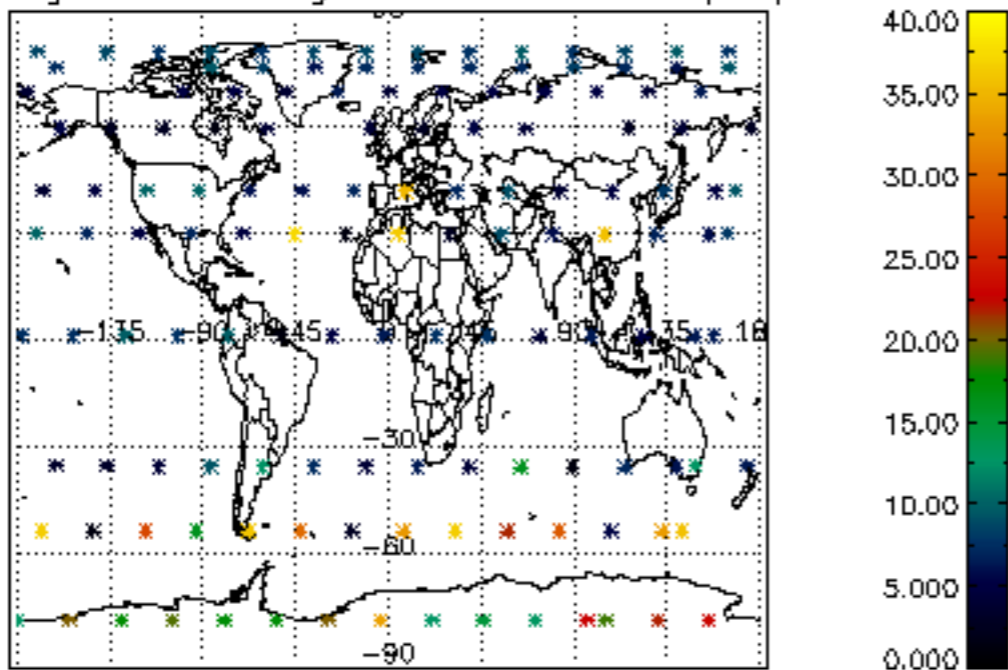
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

