

GOMOS Level 2 Daily Report

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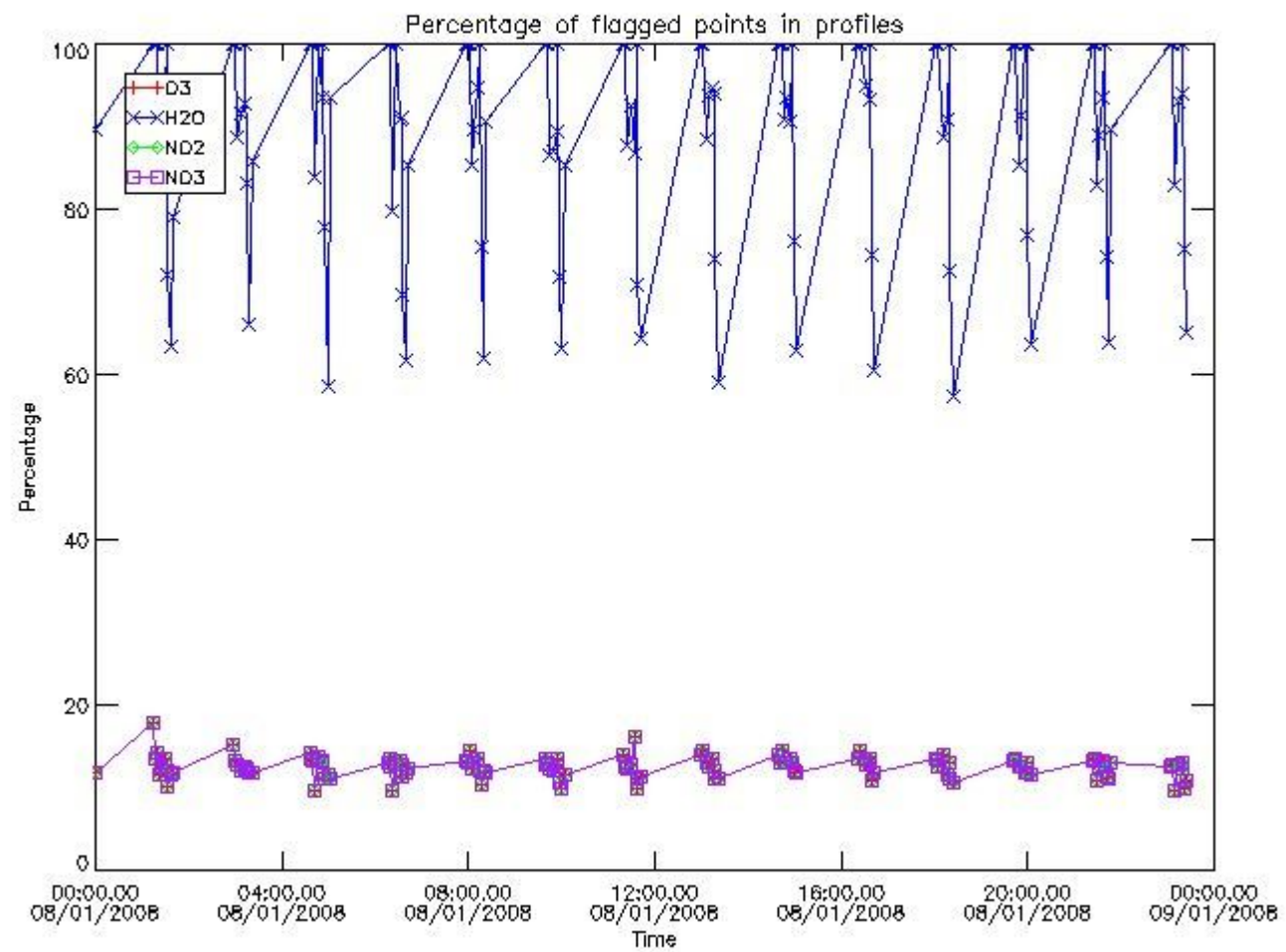
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397	GOM_NL__2PRFIN20080108_234825_000000372065_00016_30631_6809.N1	08-JAN-2008 23:48:25	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	30631	No
398	GOM_NL__2PRFIN20080108_234951_000000362065_00016_30631_6810.N1	08-JAN-2008 23:49:51	Bright	35.500	114	31ot Aur	2.6930	4600.0	71	30631	No
399	GOM_NL__2PRFIN20080108_235310_000000362065_00016_30631_6811.N1	08-JAN-2008 23:53:10	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	30631	No

3. Quality information per product

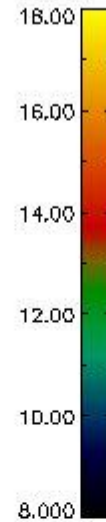
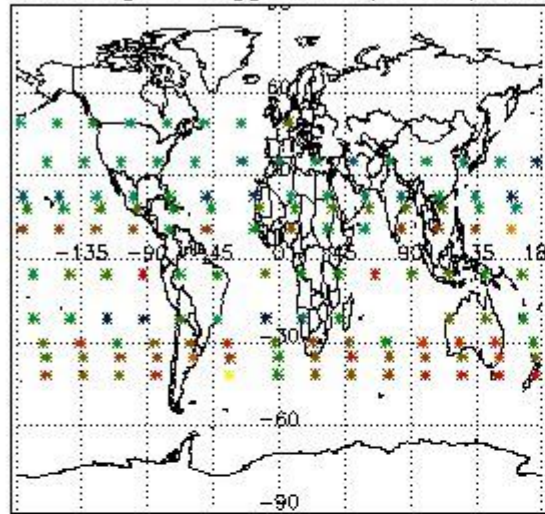
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

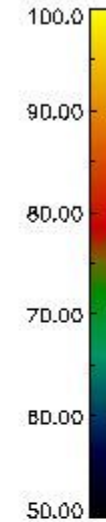
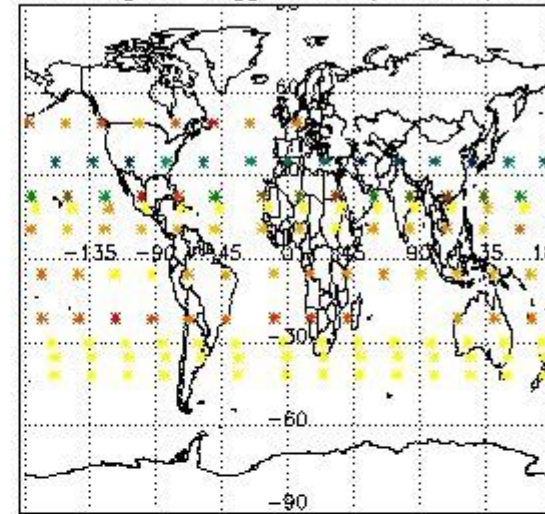


3.2 Plot quality information per product (world map)

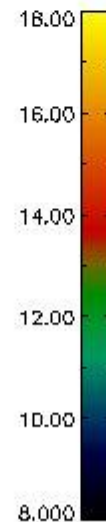
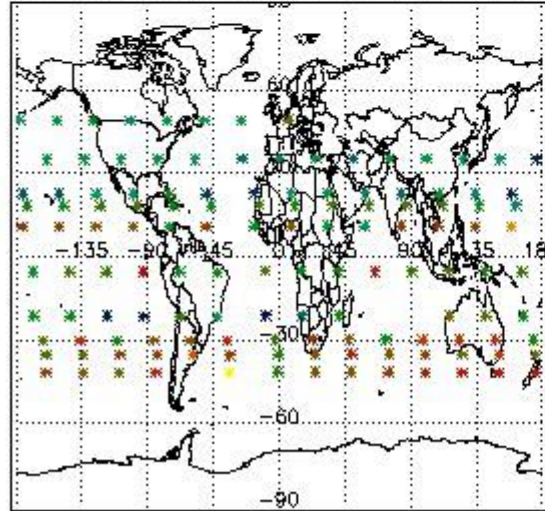
Percentage of flagged data per O3 profile



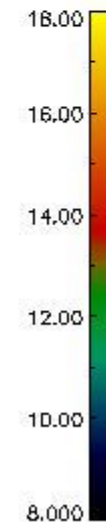
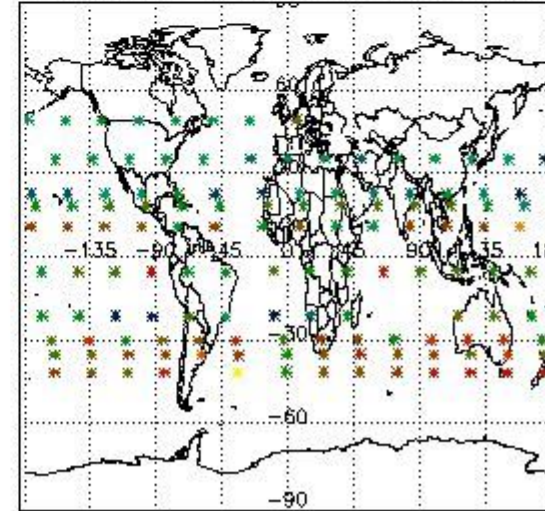
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

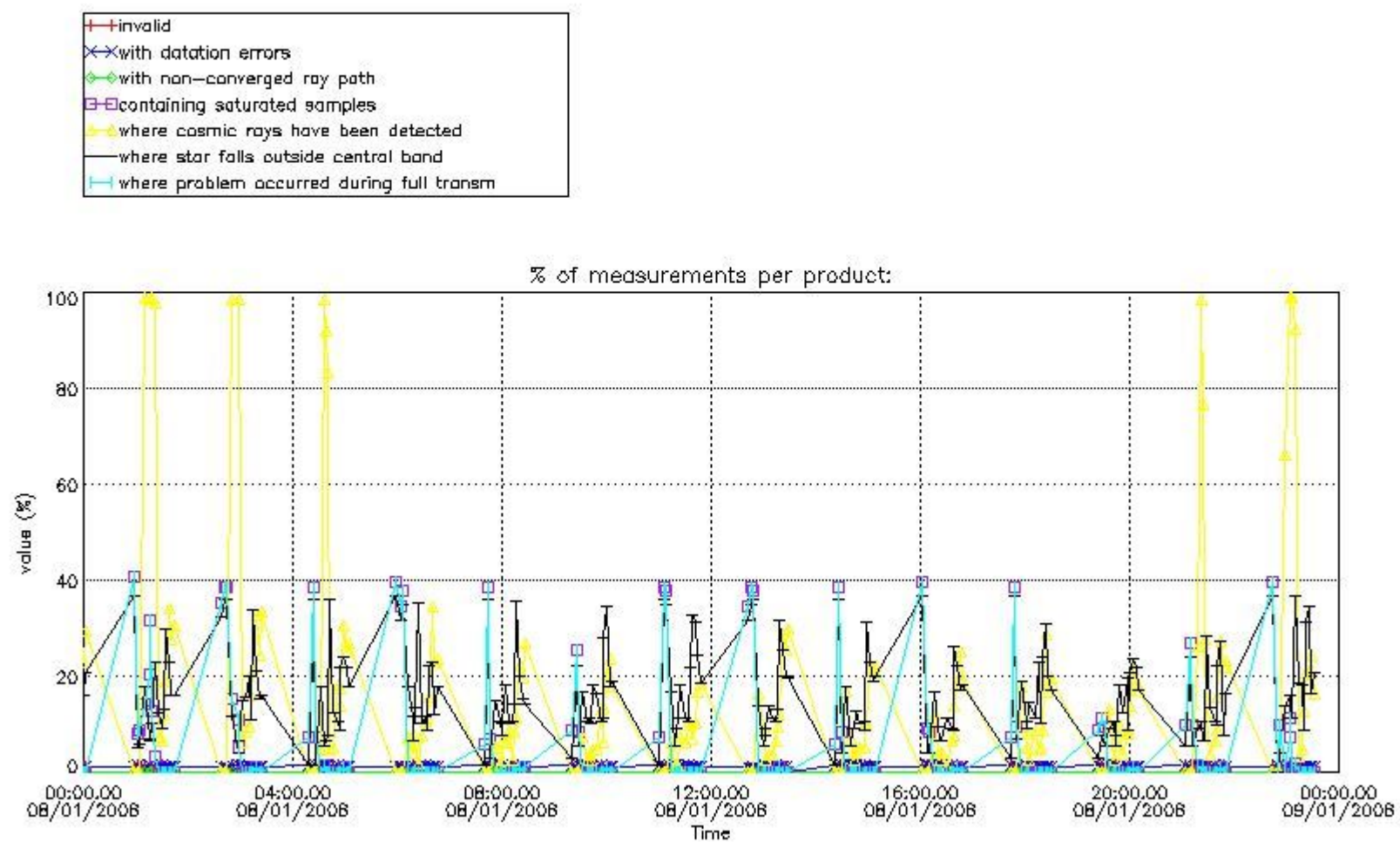


4. Level 1 quality information per product

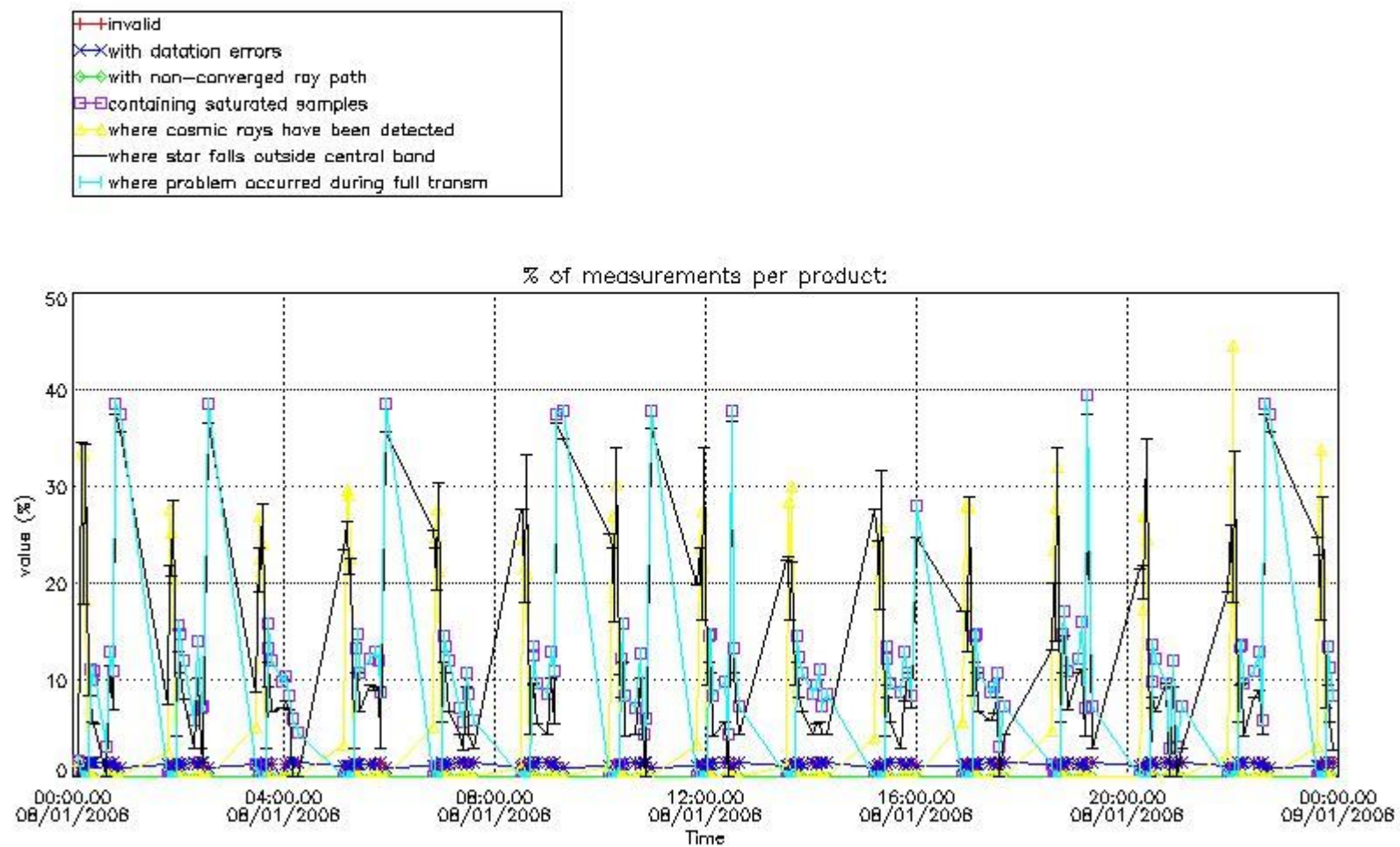
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

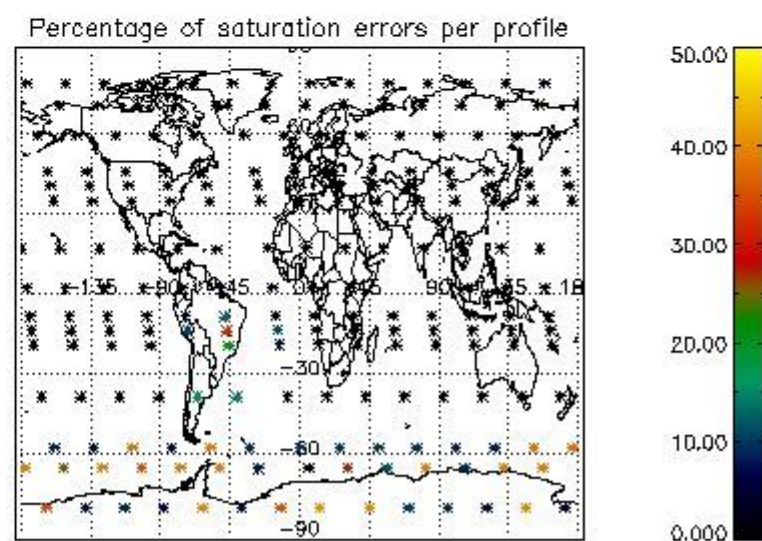
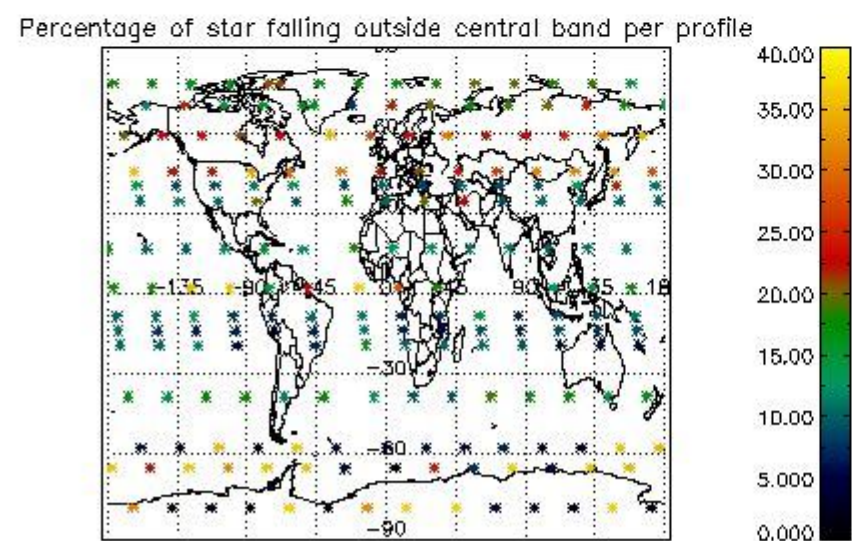
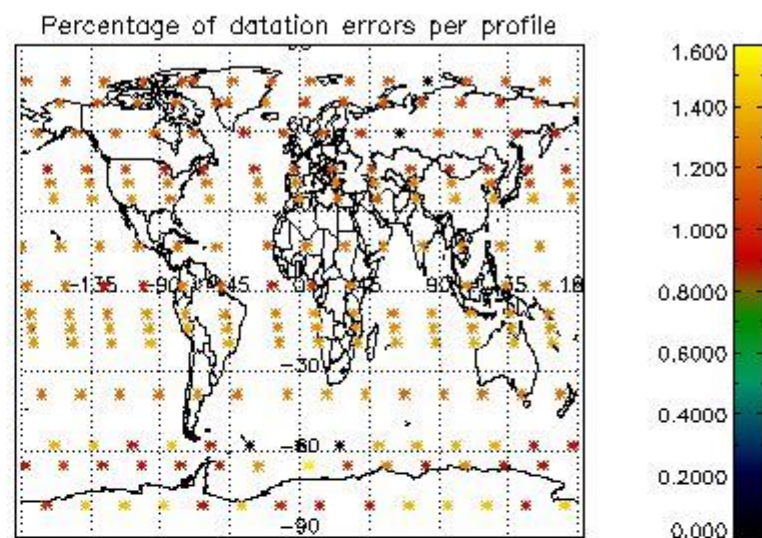
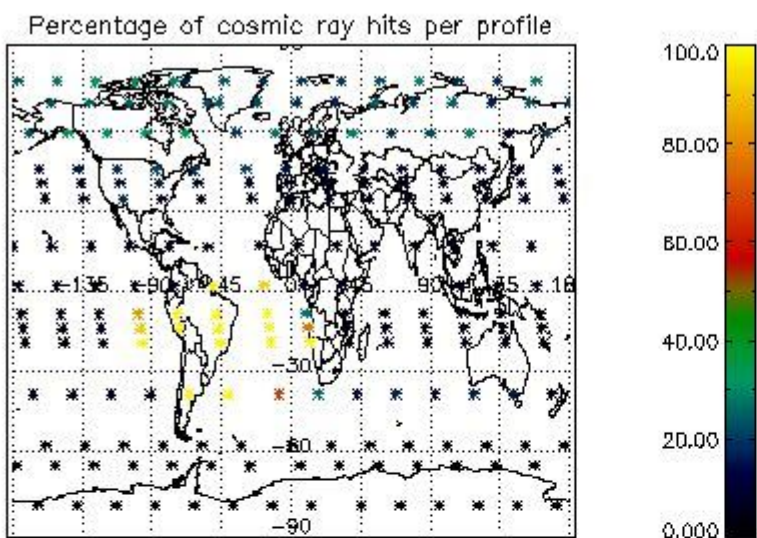


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

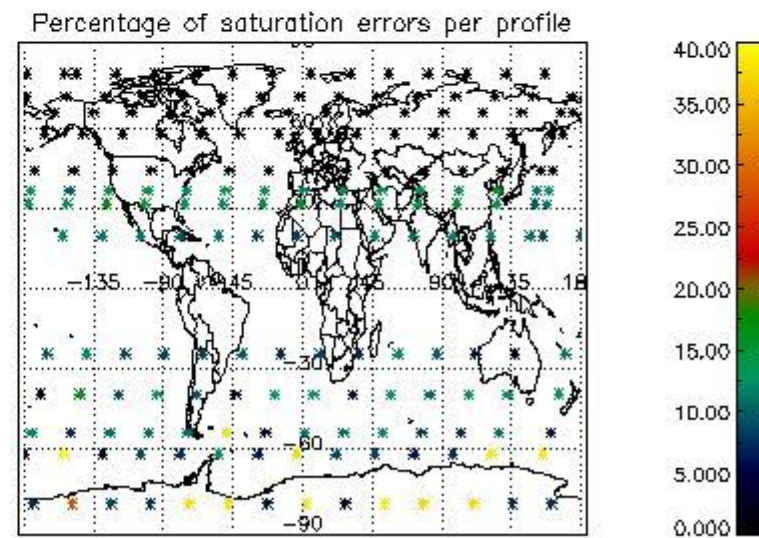
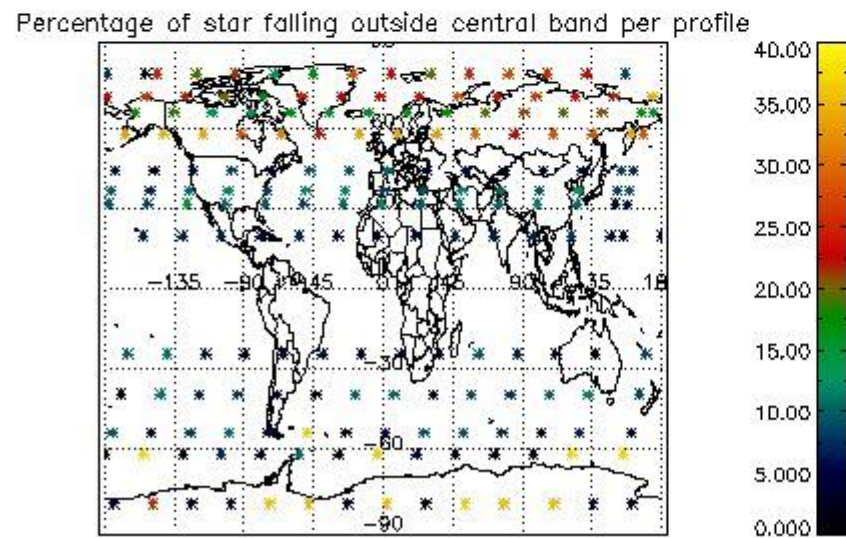
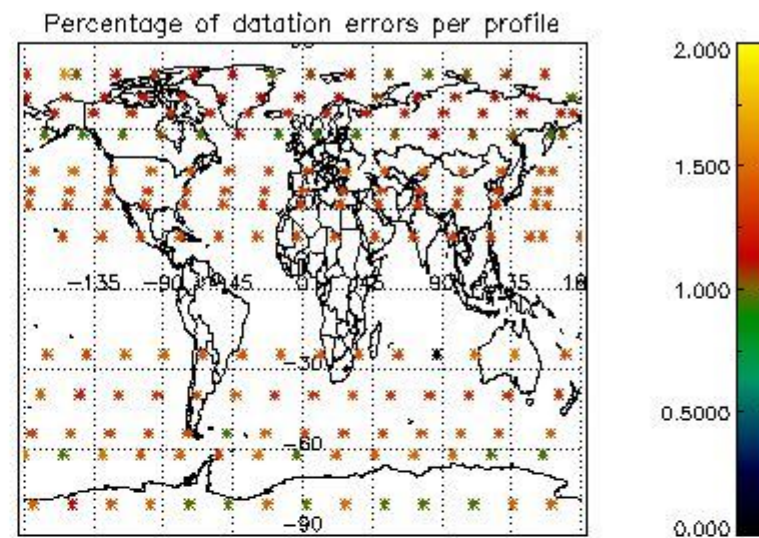
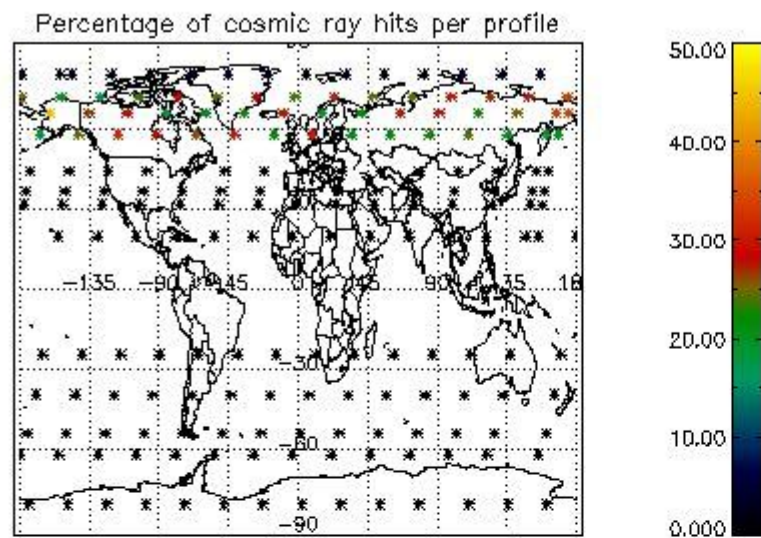


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

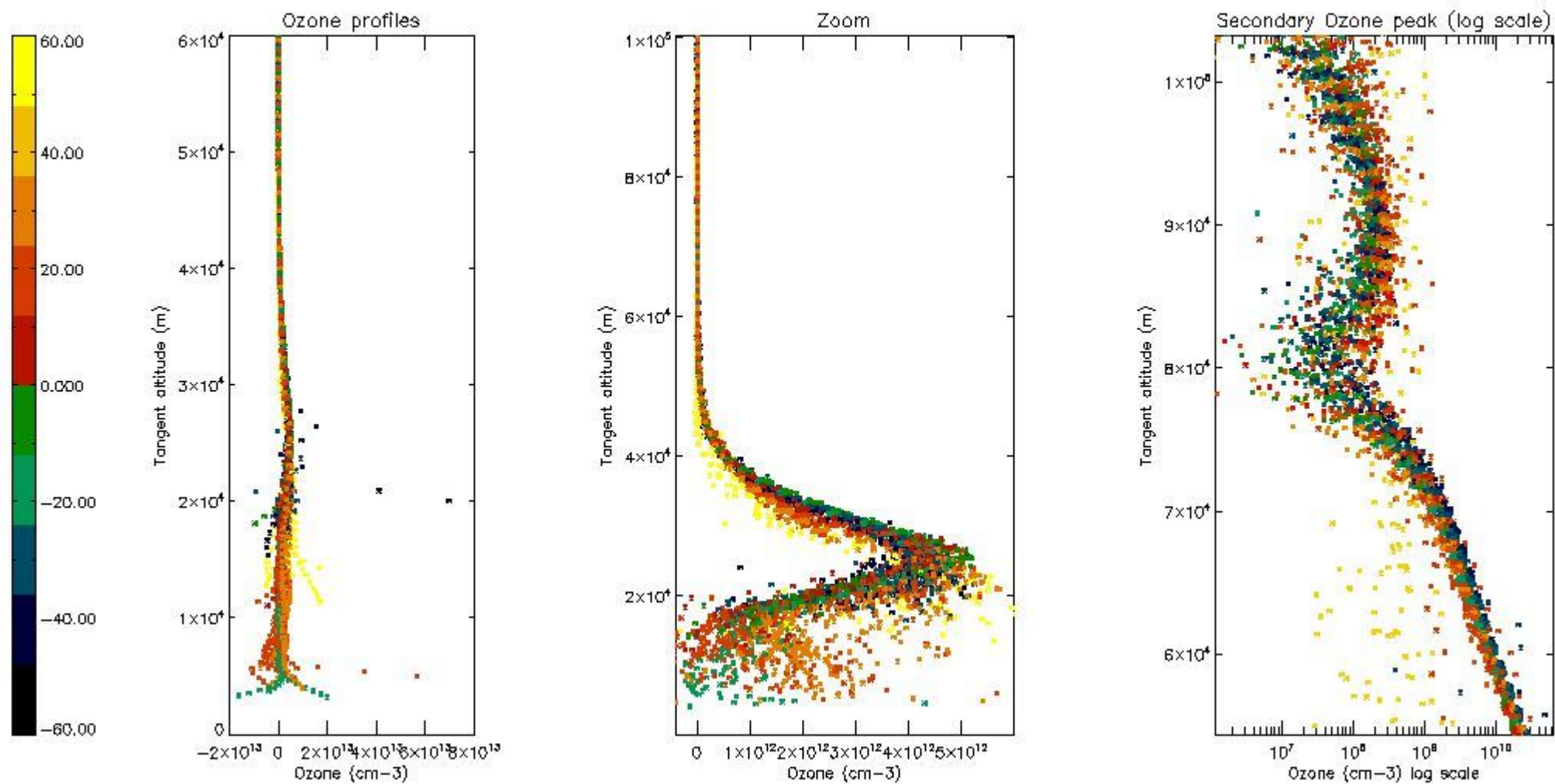
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	19

STD < 10	16
STD < 5	10

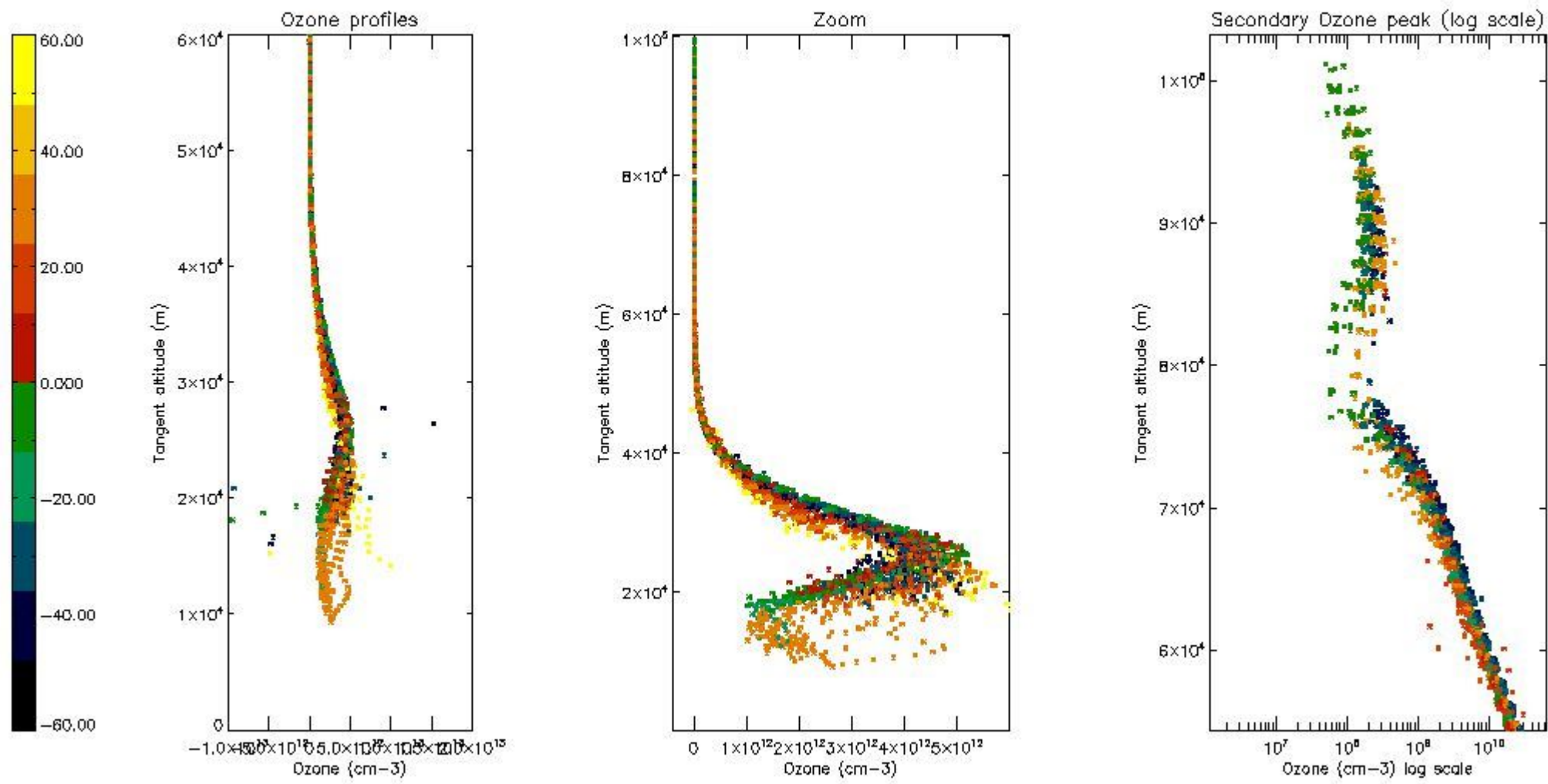
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



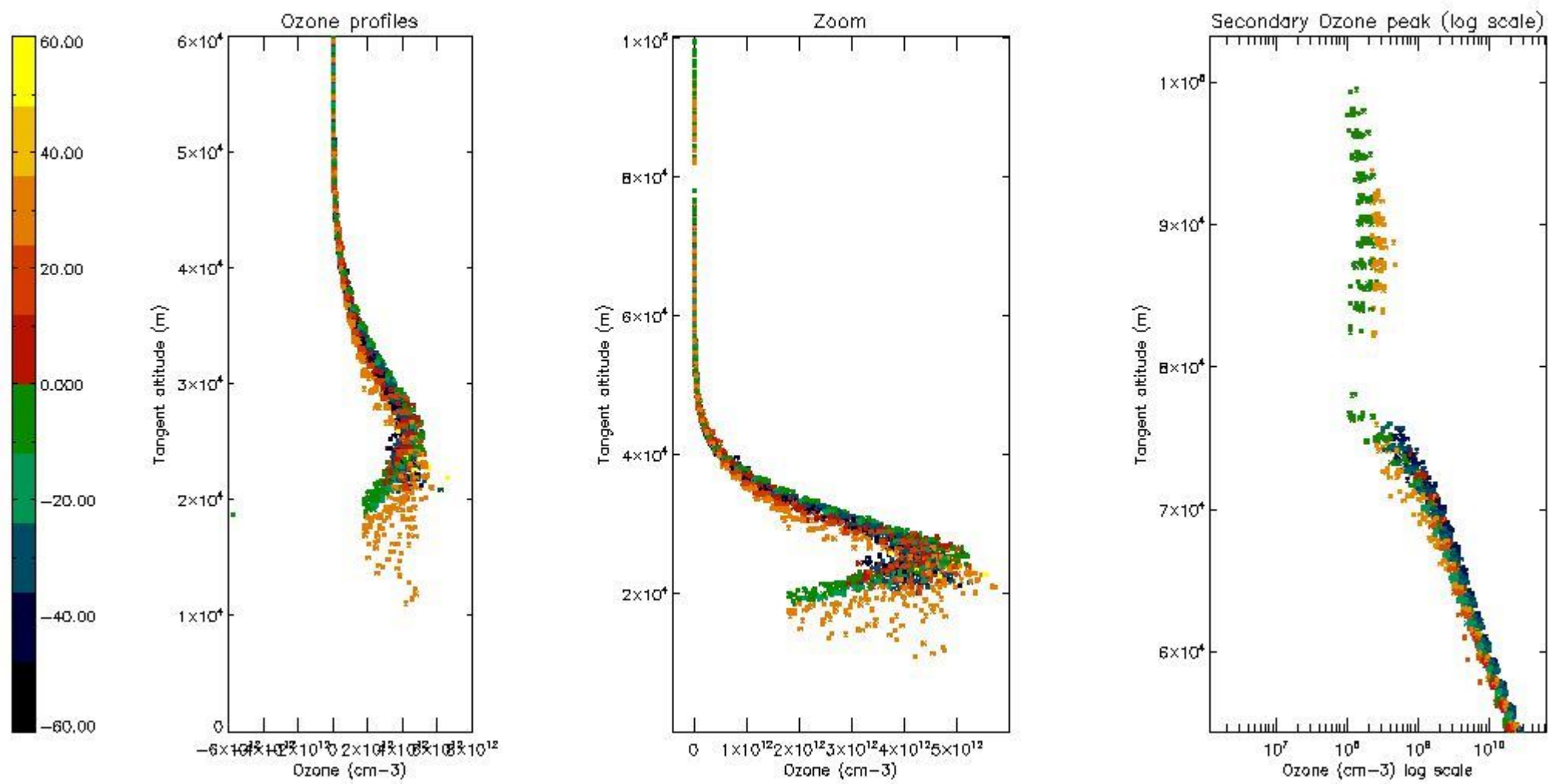
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



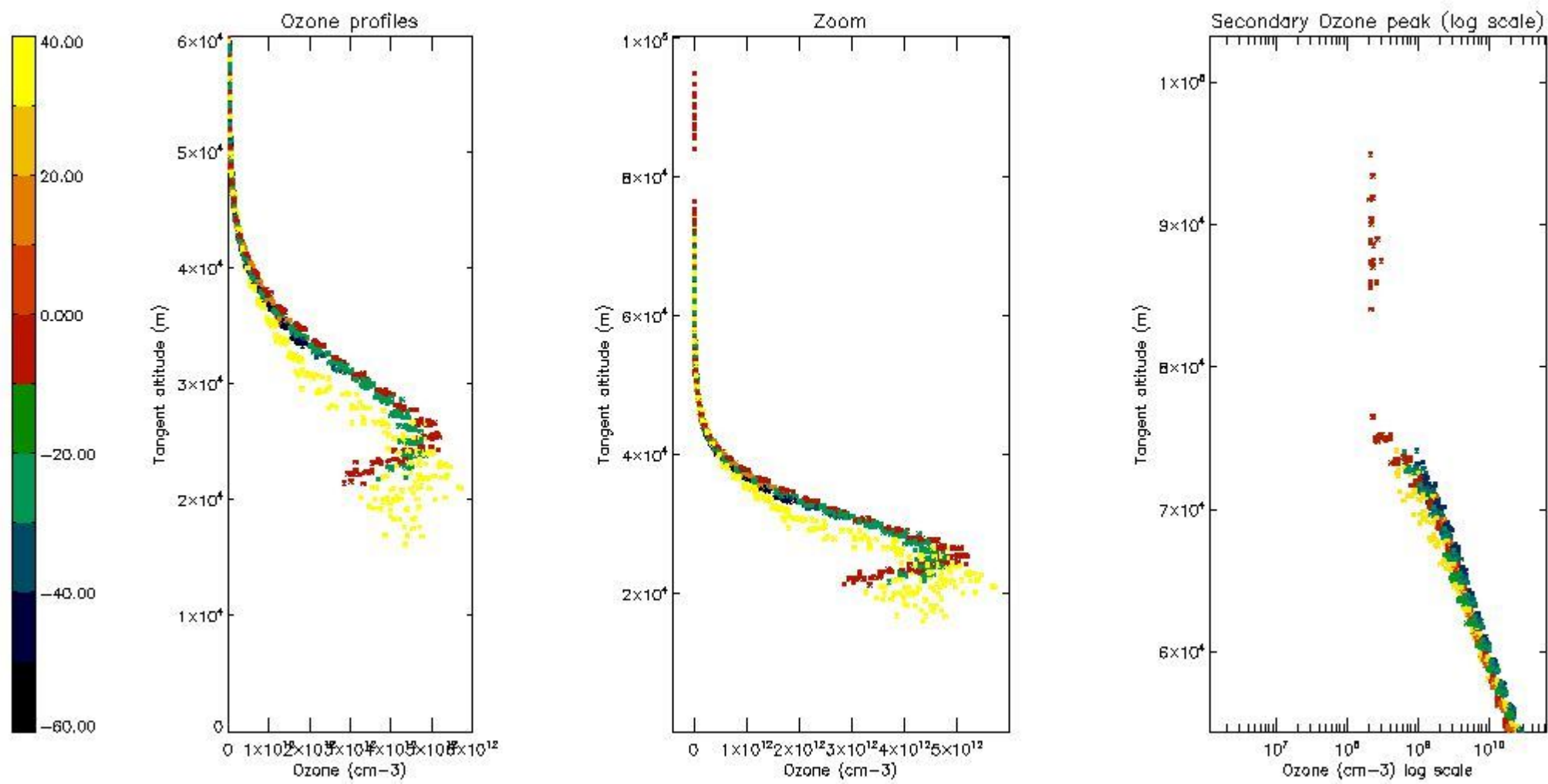
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



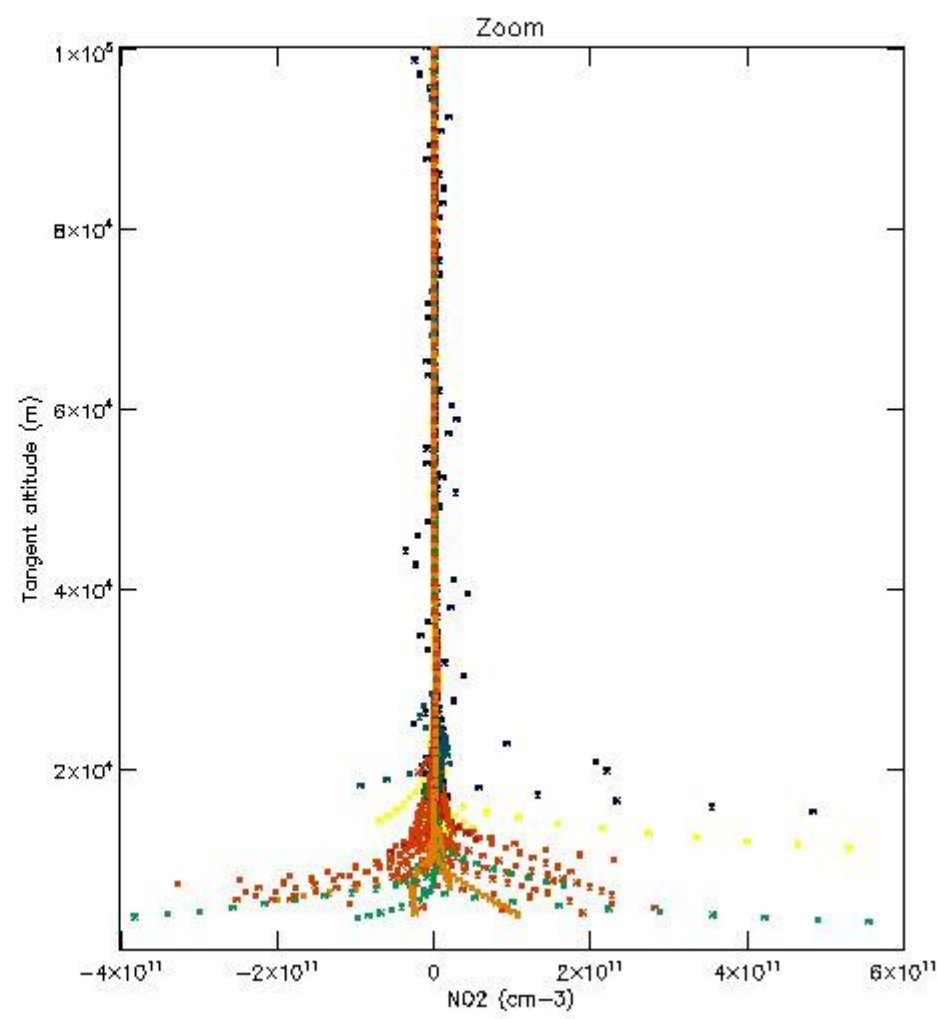
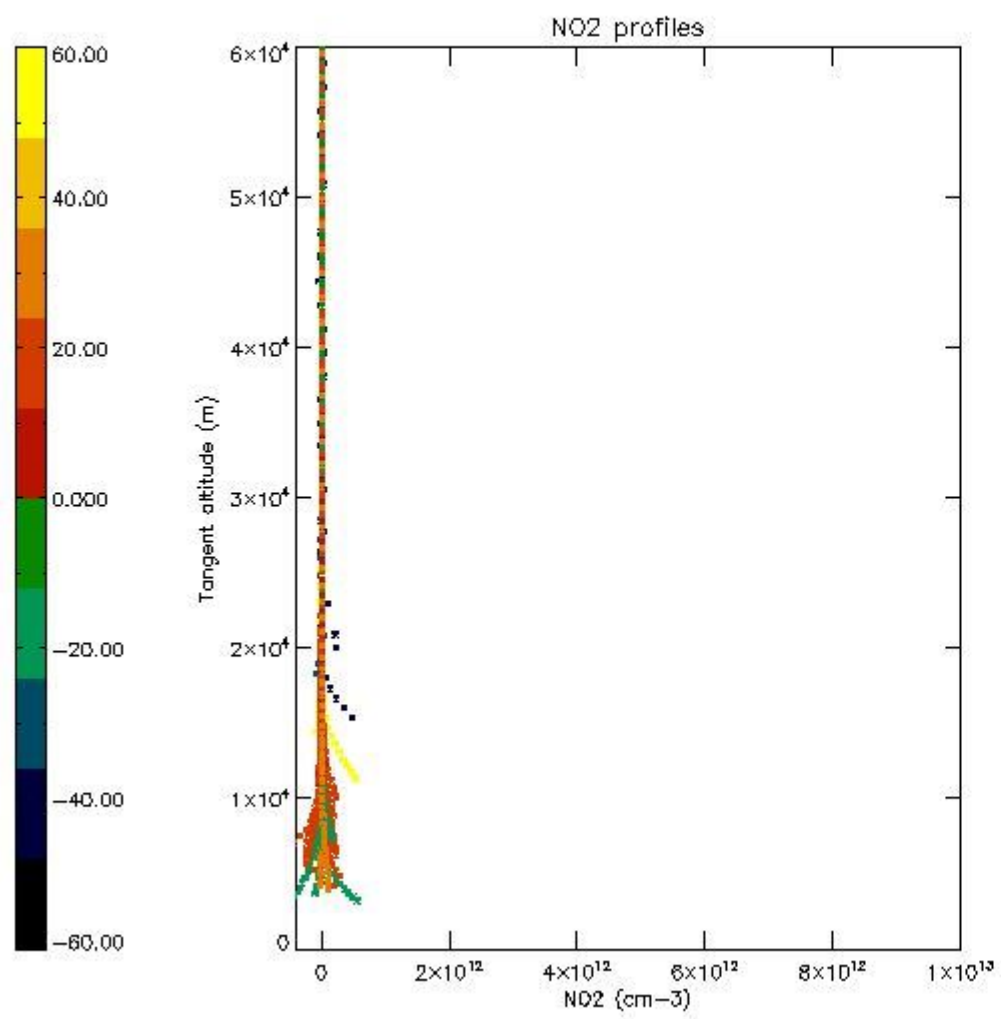
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



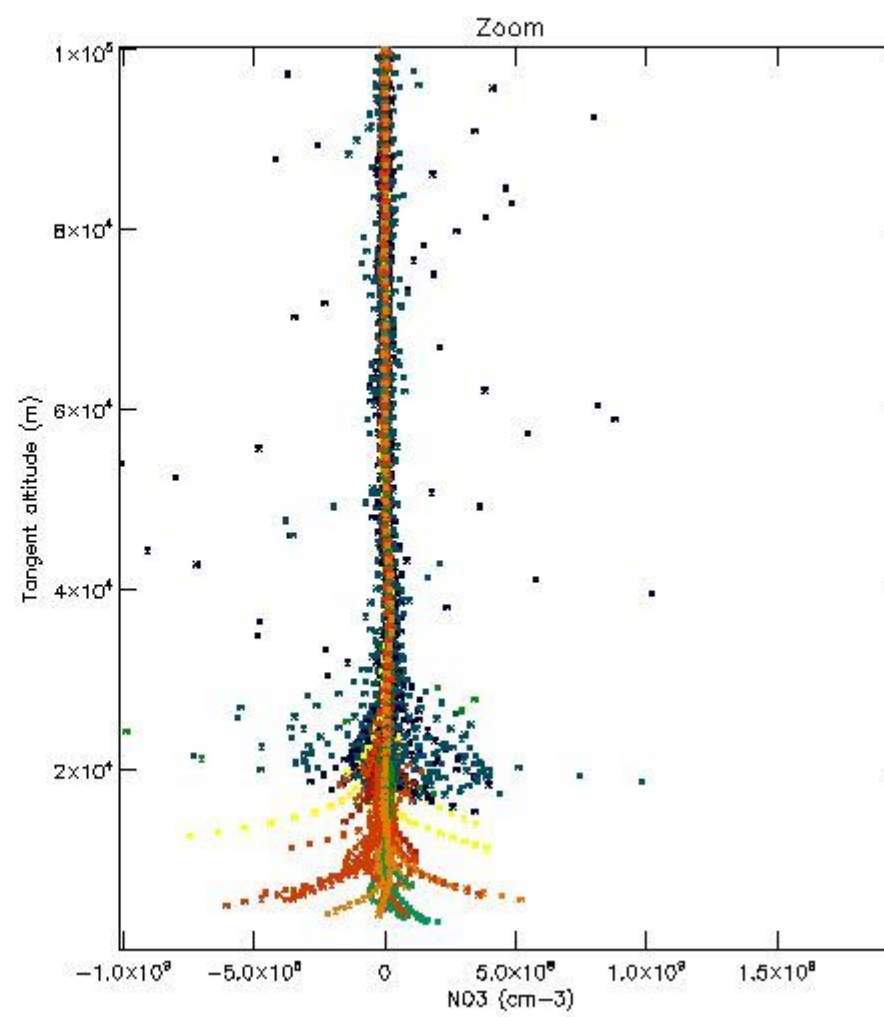
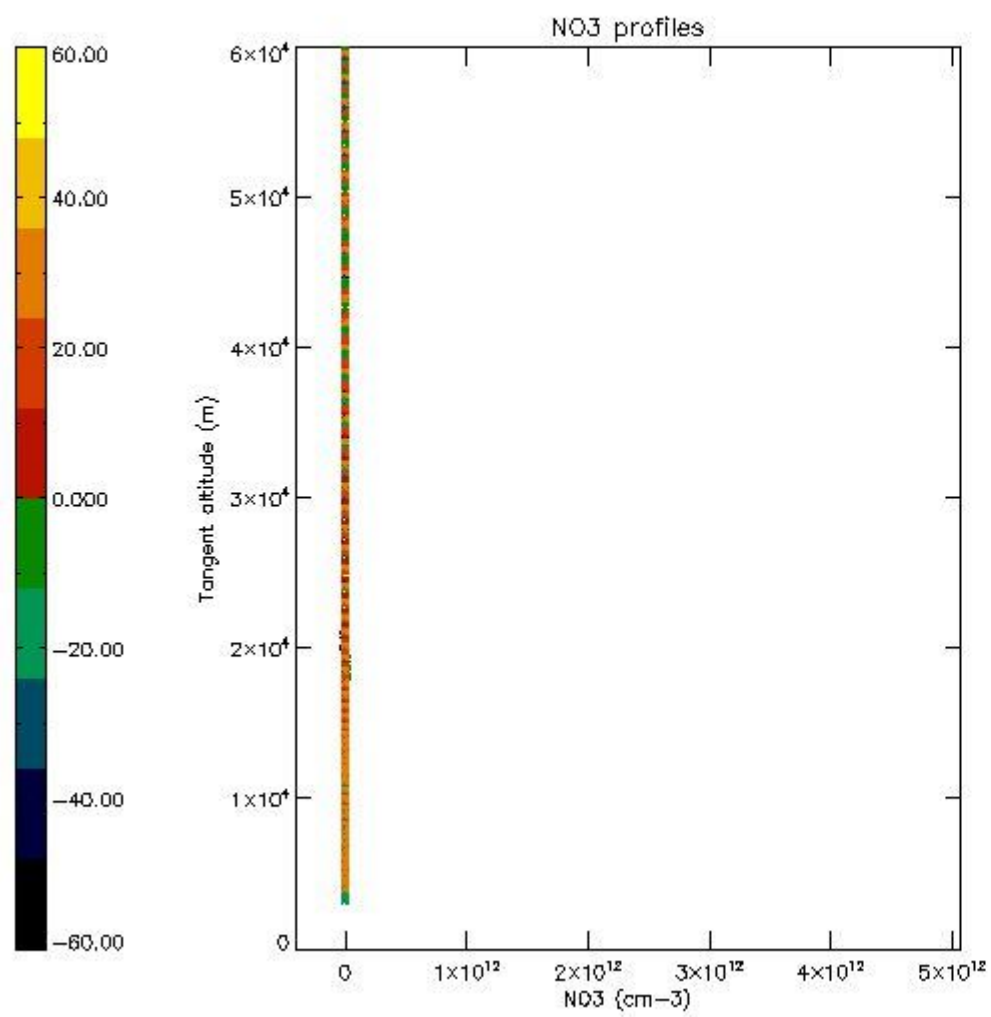
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



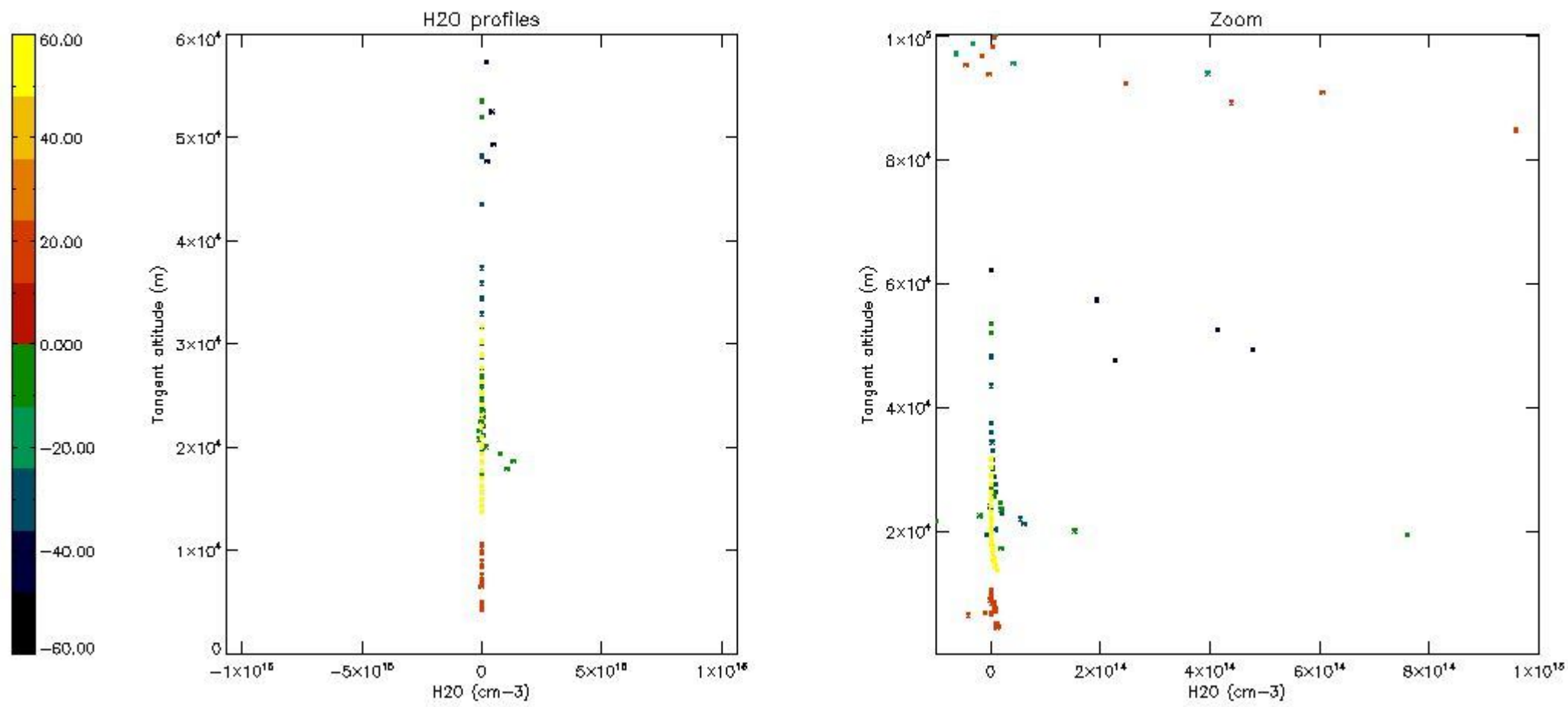
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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	08-JAN-2008 00:00:11
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	08-JAN-2008 00:00:11
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	08-JAN-2008 00:00:11

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

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	25APR2013 08:25:42
Data source version	GOMOS/6.01
Start time of products	08-01-2008 (08JAN2008 00:00:00)
Stop time of products	09-01-2008 (09JAN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	399
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

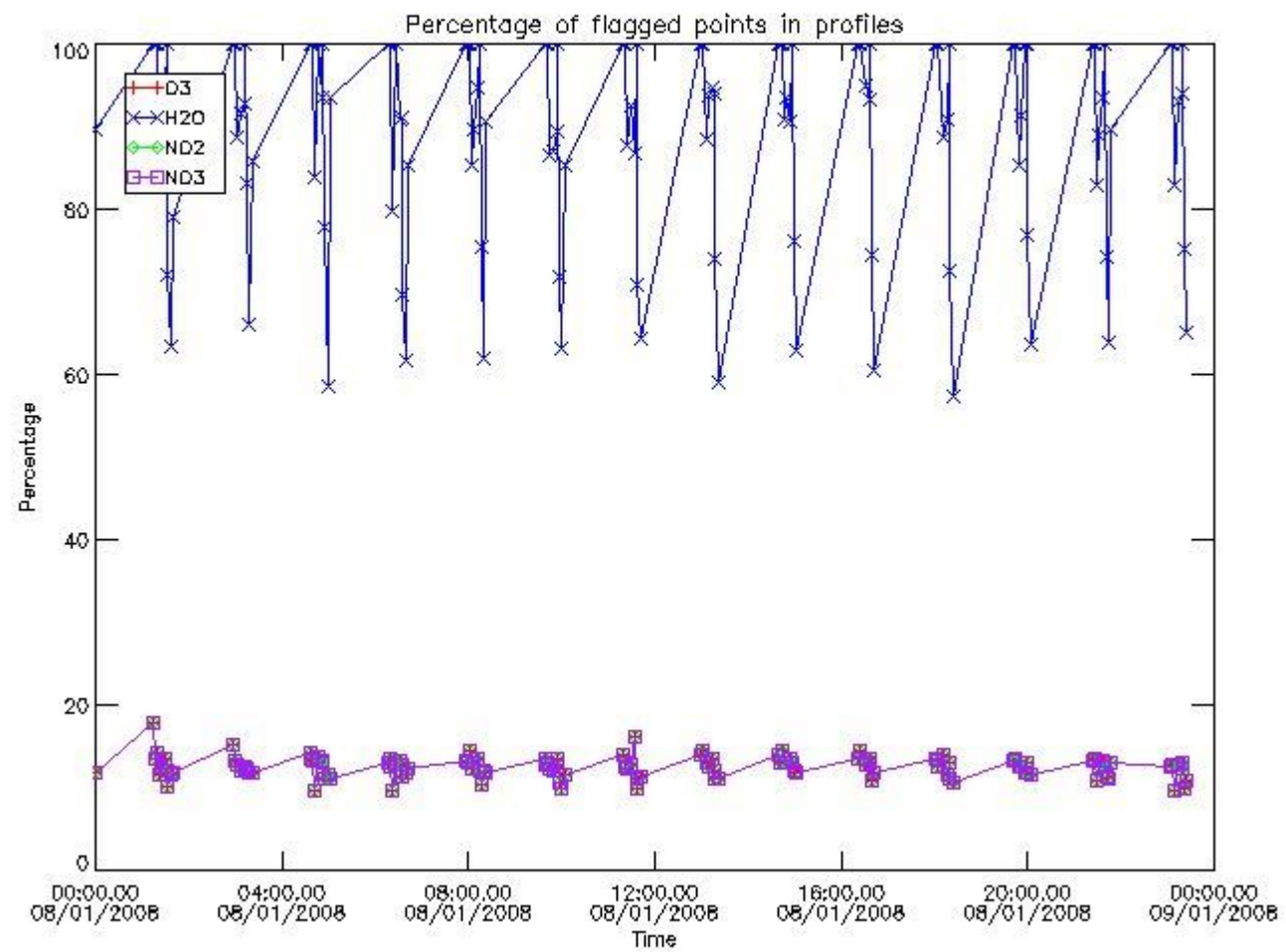
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080108_000011_000000442065_00002_30617_6604.N1	08-JAN-2008 00:00:11	Dark	43.500	117	Pi Pup	2.7060	3800.0	87	30617	No
2	GOM_NL__2PRFIN20080108_000251_000000462065_00002_30617_6605.N1	08-JAN-2008 00:02:51	Straylight	46.000	23	21Eps CMa	1.5020	26000.	92	30617	No
3	GOM_NL__2PRFIN20080108_000640_000000312065_00002_30617_6606.N1	08-JAN-2008 00:06:40	Straylight	31.000	1	9Alp CMa	-1.4400	11000.	62	30617	No
4	GOM_NL__2PRFIN20080108_000950_000000522065_00002_30617_6607.N1	08-JAN-2008 00:09:50	Straylight	52.000	7	19Bet Ori	0.10000	14000.	104	30617	No
5	GOM_NL__2PRFIN20080108_001136_000000422065_00002_30617_6608.N1	08-JAN-2008 00:11:36	Straylight	42.000	30	46Eps Ori	1.6940	30000.	84	30617	No
6	GOM_NL__2PRFIN20080108_001358_000000532065_00002_30617_6609.N1	08-JAN-2008 00:13:58	Twilight_stray	52.500	14	58Alp Ori	0.87000	3000.0	105	30617	No
7	GOM_NL__2PRFIN20080108_001754_000000362065_00002_30617_6610.N1	08-JAN-2008 00:17:54	Bright	36.000	176	23Zet Tau	3.0200	22000.	72	30617	No
8	GOM_NL__2PRFIN20080108_002001_000000362065_00002_30617_6611.N1	08-JAN-2008 00:20:01	Bright	36.000	28	12Bet Tau	1.6500	15200.	72	30617	No
9	GOM_NL__2PRFIN20080108_002126_000000352065_00002_30617_6612.N1	08-JAN-2008 00:21:26	Bright	35.000	114	3Iot Aur	2.6930	4600.0	70	30617	No
10	GOM_NL__2PRFIN20080108_002449_000000372065_00002_30617_6613.N1	08-JAN-2008 00:24:49	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	30617	No
11	GOM_NL__2PRFIN20080108_003710_000000332065_00002_30617_6614.N1	08-JAN-2008 00:37:10	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	30617	No
12	GOM_NL__2PRFIN20080108_004127_000000392065_00002_30617_6615.N1	08-JAN-2008 00:41:27	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	30617	No
13	GOM_NL__2PRFIN20080108_004531_000000372065_00002_30617_6616.N1	08-JAN-2008 00:45:31	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	30617	No
14	GOM_NL__2PRFIN20080108_004750_000000522065_00002_30617_6617.N1	08-JAN-2008 00:47:50	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	30617	No
15	GOM_NL__2PRFIN20080108_005403_000000522065_00002_30617_6618.N1	08-JAN-2008 00:54:03	Bright	52.000	133	40Zet Her	2.8070	6000.0	104	30617	No
16	GOM_NL__2PRFIN20080108_005702_000000532065_00002_30617_6619.N1	08-JAN-2008 00:57:02	Bright	53.000	127	27Bet Her	2.7810	4700.0	106	30617	No
17	GOM_NL__2PRFIN20080108_010208_000000382065_00002_30617_6620.N1	08-JAN-2008 01:02:08	Bright	38.000	102	24Alp Ser	2.6000	4250.0	76	30617	No
18	GOM_NL__2PRFIN20080108_010422_000000352065_00002_30617_6621.N1	08-JAN-2008 01:04:22	Bright	35.000	120	1Del Oph	2.7340	3200.0	70	30617	No
19	GOM_NL__2PRFIN20080108_010950_000000422065_00002_30617_6622.N1	08-JAN-2008 01:09:50	Twilight_stray	42.000	80	7Del Sco	2.3160	30000.	84	30617	No
20	GOM_NL__2PRFIN20080108_011516_000000372065_00002_30617_6623.N1	08-JAN-2008 01:15:16	Dark	37.000	131	Gam Lup	2.8000	26000.	74	30617	No
21	GOM_NL__2PRFIN20080108_011647_000000382065_00002_30617_6624.N1	08-JAN-2008 01:16:47	Dark	38.000	109	Bet Lup	2.6770	26000.	76	30617	No
22	GOM_NL__2PRFIN20080108_011817_000000402065_00002_30617_6625.N1	08-JAN-2008 01:18:17	Dark	39.500	78	Alp Lup	2.3040	28000.	79	30617	No
23	GOM_NL__2PRFIN20080108_012114_000000442065_00003_30618_6613.N1	08-JAN-2008 01:21:14	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	30618	No
24	GOM_NL__2PRFIN20080108_012521_000000412065_00003_30618_6614.N1	08-JAN-2008 01:25:21	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	30618	No
25	GOM_NL__2PRFIN20080108_013023_000000382065_00003_30618_6615.N1	08-JAN-2008 01:30:23	Dark	38.000	29	Bet Car	1.6720	10200.	76	30618	No
26	GOM_NL__2PRFIN20080108_013201_000000422065_00003_30618_6616.N1	08-JAN-2008 01:32:01	Dark	42.000	71	Iot Car	2.2460	7700.0	84	30618	No
27	GOM_NL__2PRFIN20080108_013328_000000512065_00003_30618_6617.N1	08-JAN-2008 01:33:28	Dark	50.500	41	Eps Car	1.8600	4100.0	101	30618	No
28	GOM_NL__2PRFIN20080108_013724_000000442065_00003_30618_6618.N1	08-JAN-2008 01:37:24	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	30618	No
29	GOM_NL__2PRFIN20080108_014047_000000442065_00003_30618_6619.N1	08-JAN-2008 01:40:47	Dark	43.500	117	Pi Pup	2.7060	3800.0	87	30618	No
30	GOM_NL__2PRFIN20080108_014327_000000442065_00003_30618_6620.N1	08-JAN-2008 01:43:27	Straylight	44.000	23	21Eps CMa	1.5020	26000.	88	30618	No
31	GOM_NL__2PRFIN20080108_014716_000000402065_00003_30618_6621.N1	08-JAN-2008 01:47:16	Straylight	40.000	1	9Alp CMa	-1.4400	11000.	80	30618	No
32	GOM_NL__2PRFIN20080108_015026_000000442065_00003_30618_6622.N1	08-JAN-2008 01:50:26	Straylight	43.500	7	19Bet Ori	0.10000	14000.	87	30618	No
33	GOM_NL__2PRFIN20080108_015212_000000442065_00003_30618_6623.N1	08-JAN-2008 01:52:12	Straylight	43.500	30	46Eps Ori	1.6940	30000.	87	30618	No
34	GOM_NL__2PRFIN20080108_015434_000000492065_00003_30618_6624.N1	08-JAN-2008 01:54:34	Twilight_stray	49.000	14	58Alp Ori	0.87000	3000.0	98	30618	No
35	GOM_NL__2PRFIN20080108_015830_000000362065_00003_30618_6625.N1	08-JAN-2008 01:58:30	Bright	35.500	176	23Zet Tau	3.0200	22000.	71	30618	No
36	GOM_NL__2PRFIN20080108_020037_000000392065_00003_30618_6626.N1	08-JAN-2008 02:00:37	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	30618	No
37	GOM_NL__2PRFIN20080108_020202_000000382065_00003_30618_6627.N1	08-JAN-2008 02:02:02	Bright	37.500	114	3Iot Aur	2.6930	4600.0	75	30618	No
38	GOM_NL__2PRFIN20080108_020524_000000382065_00003_30618_6628.N1	08-JAN-2008 02:05:24	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	30618	No
39	GOM_NL__2PRFIN20080108_021746_000000342065_00003_30618_6629.N1	08-JAN-2008 02:17:46	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	30618	No
40	GOM_NL__2PRFIN20080108_022202_000000402065_00003_30618_6630.N1	08-JAN-2008 02:22:02	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	30618	No
41	GOM_NL__2PRFIN20080108_022607_000000352065_00003_30618_6631.N1	08-JAN-2008 02:26:07	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	30618	No
42	GOM_NL__2PRFIN20080108_022826_000000342065_00003_30618_6632.N1	08-JAN-2008 02:28:26	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	30618	No

397	GOM_NL__2PRFIN20080108_234825_000000372065_00016_30631_6809.N1	08-JAN-2008 23:48:25	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	30631	No
398	GOM_NL__2PRFIN20080108_234951_000000362065_00016_30631_6810.N1	08-JAN-2008 23:49:51	Bright	35.500	114	31ot Aur	2.6930	4600.0	71	30631	No
399	GOM_NL__2PRFIN20080108_235310_000000362065_00016_30631_6811.N1	08-JAN-2008 23:53:10	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	30631	No

3. Quality information per product

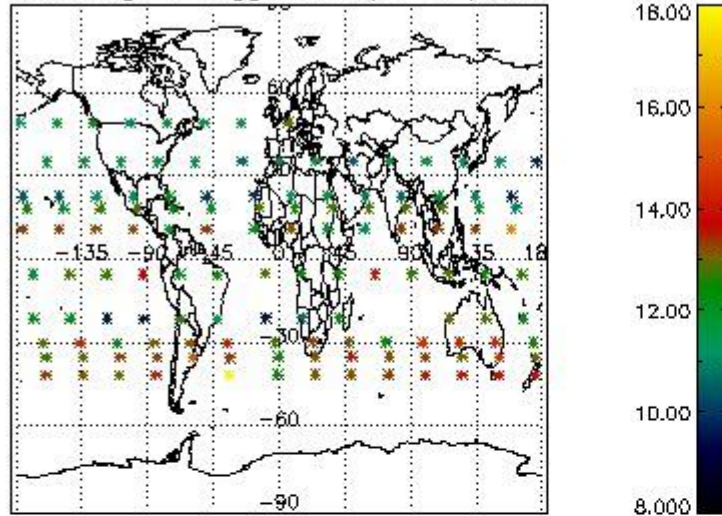
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

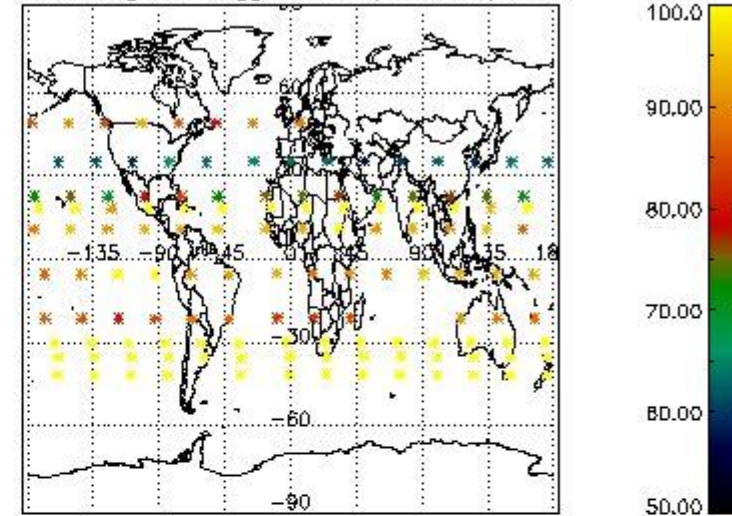


3.2 Plot quality information per product (world map)

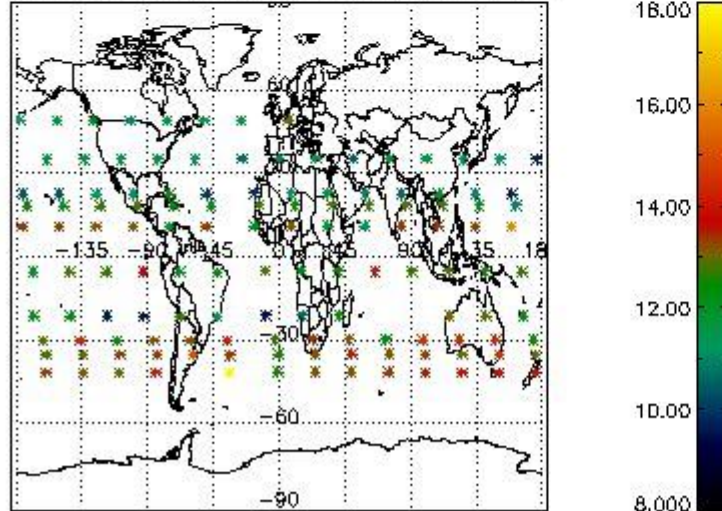
Percentage of flagged data per O3 profile



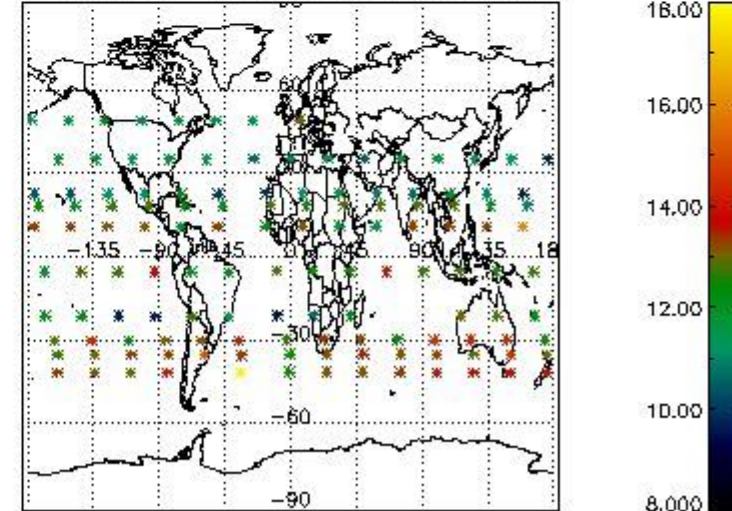
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

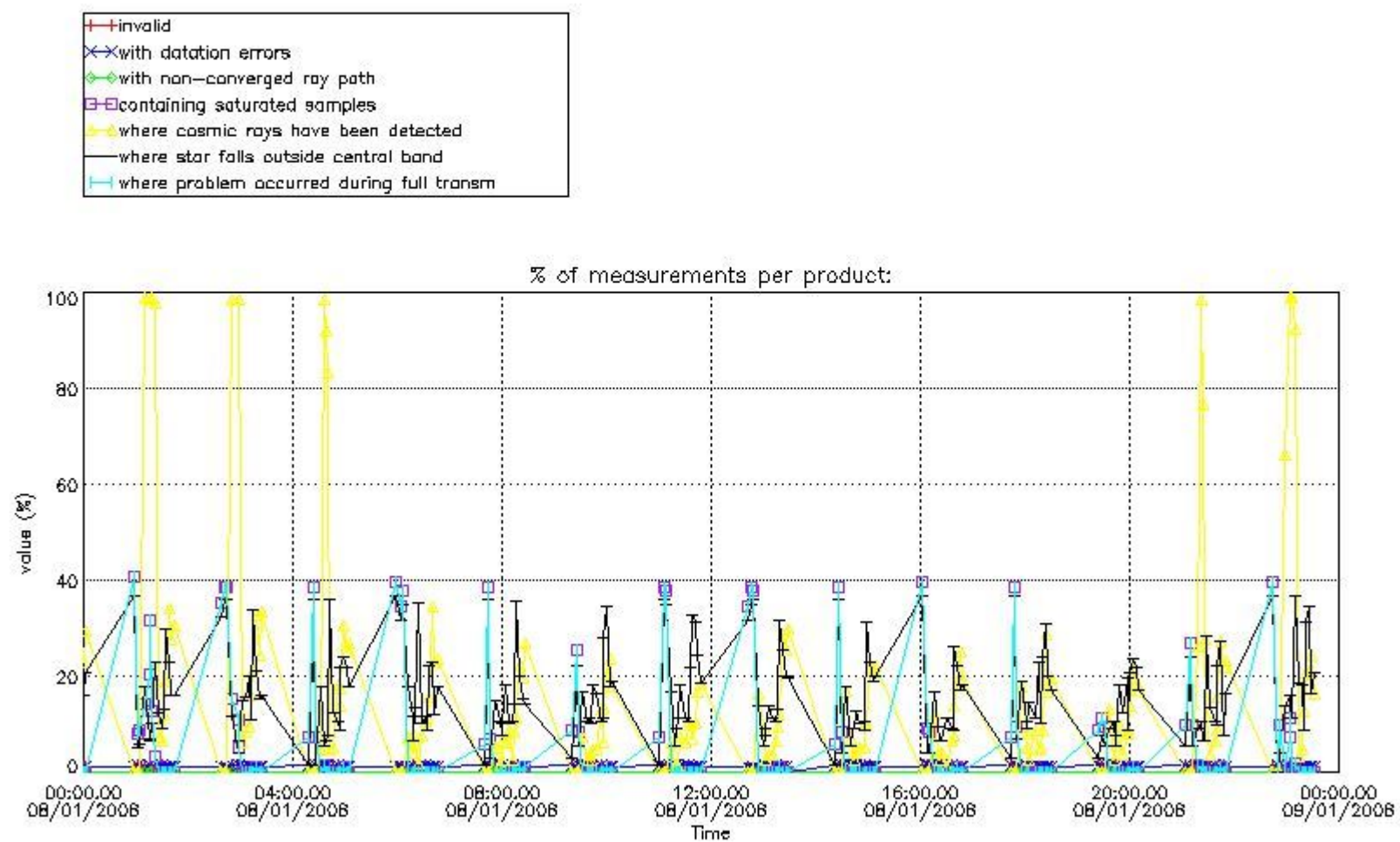


4. Level 1 quality information per product

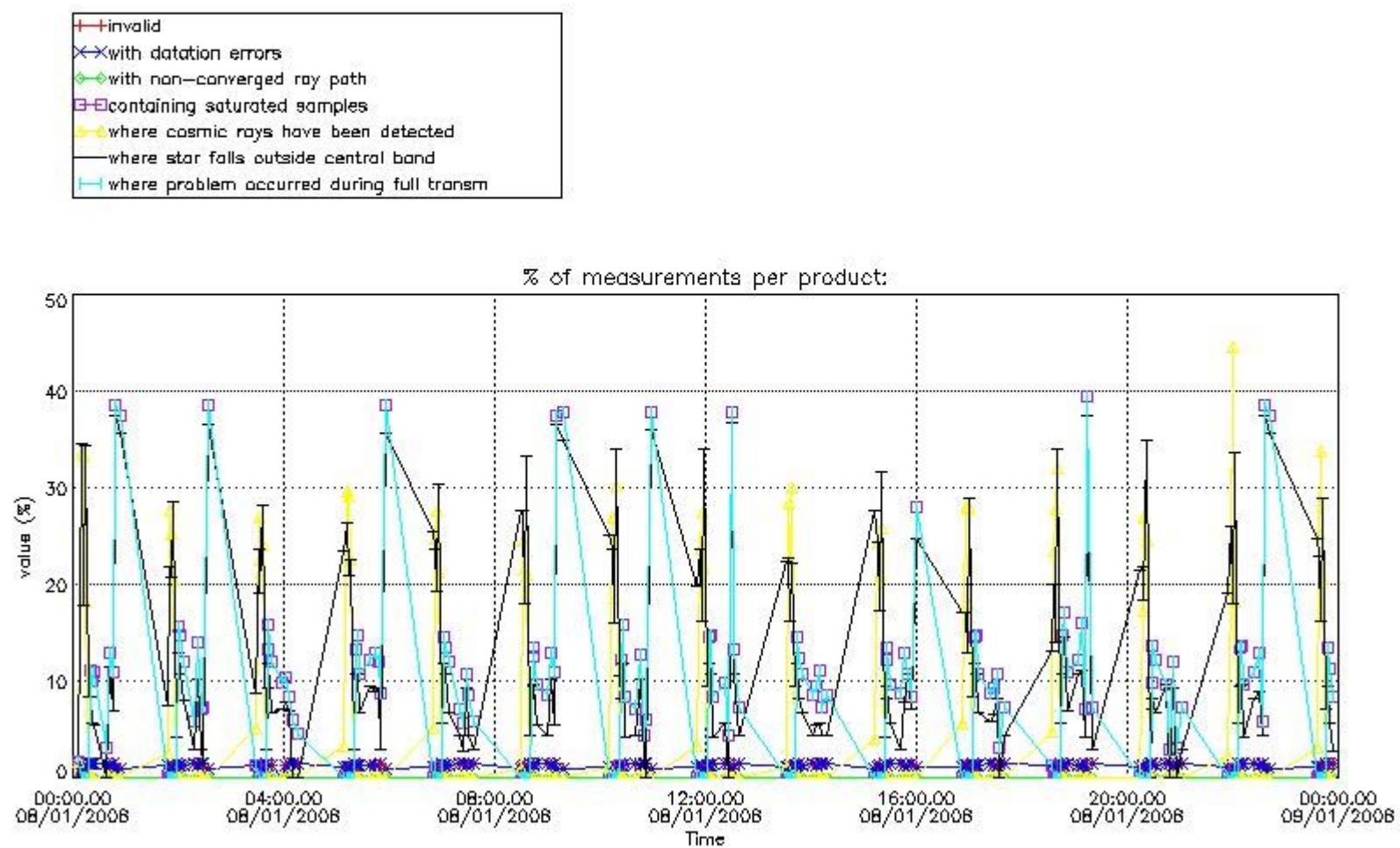
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

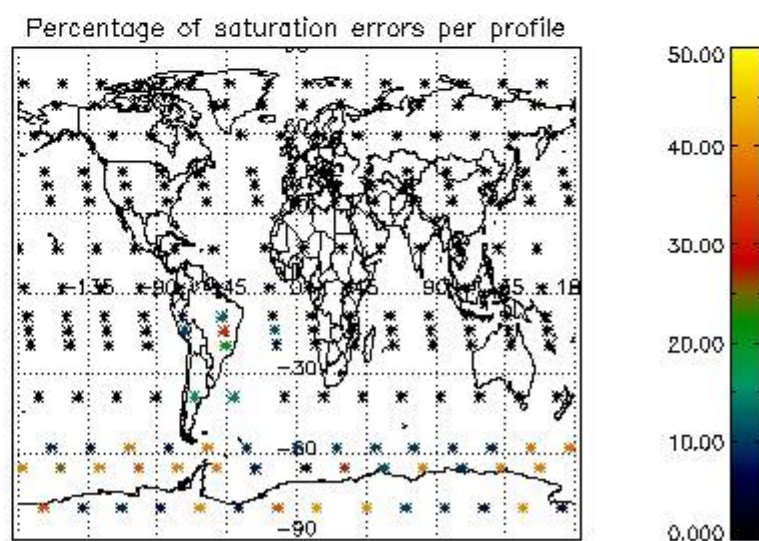
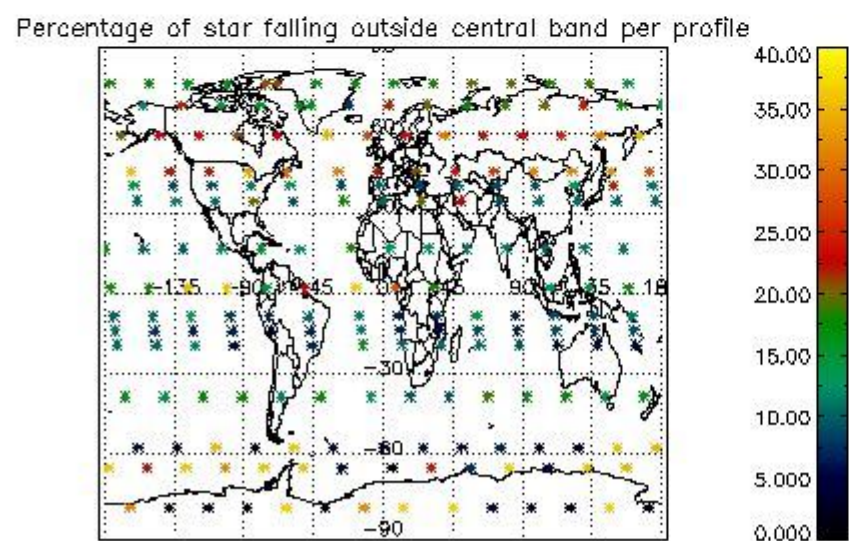
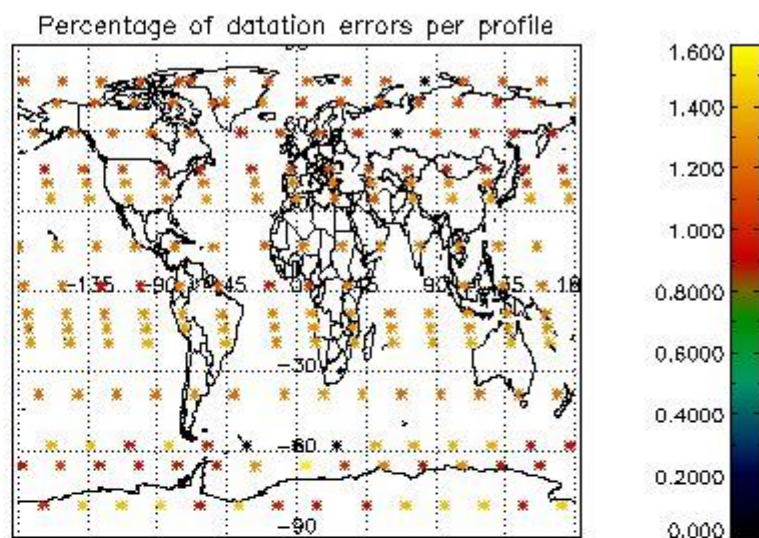
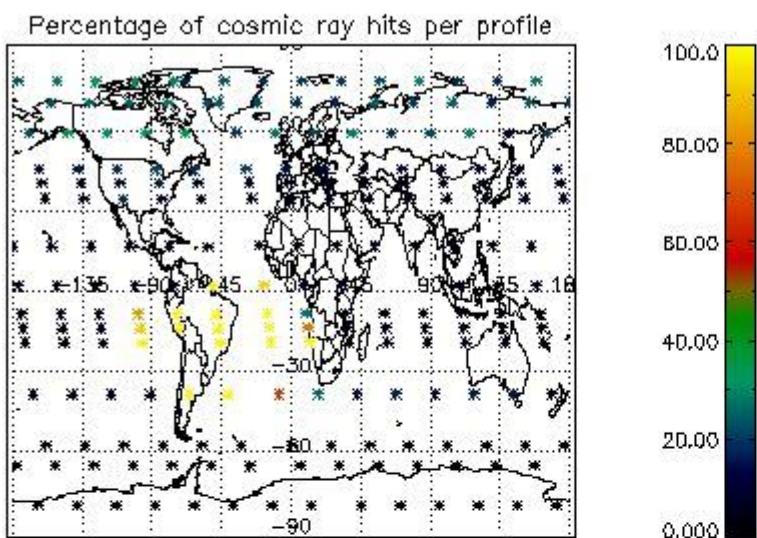


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

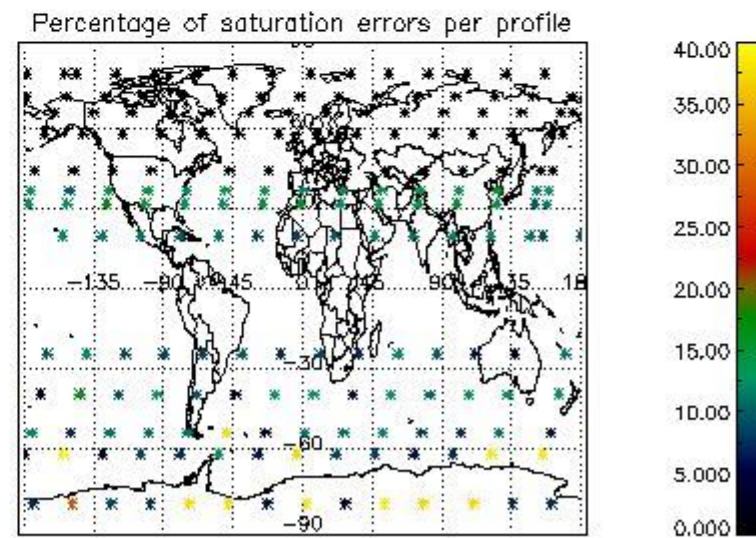
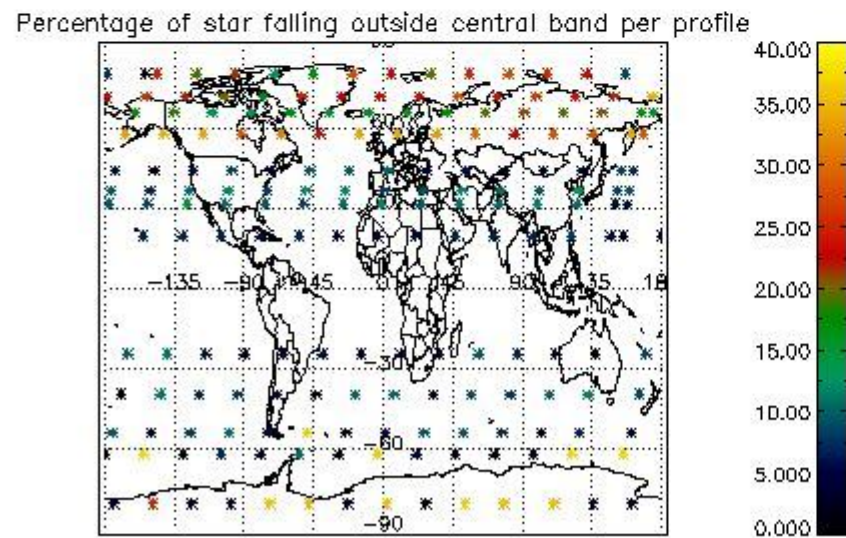
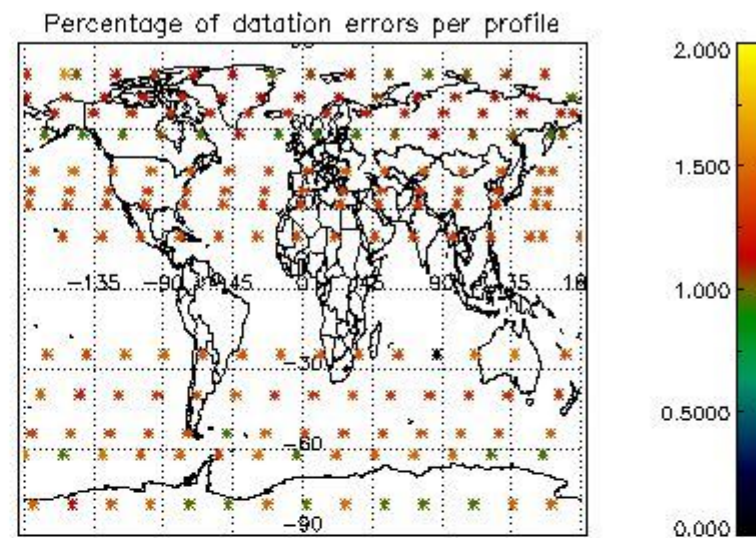
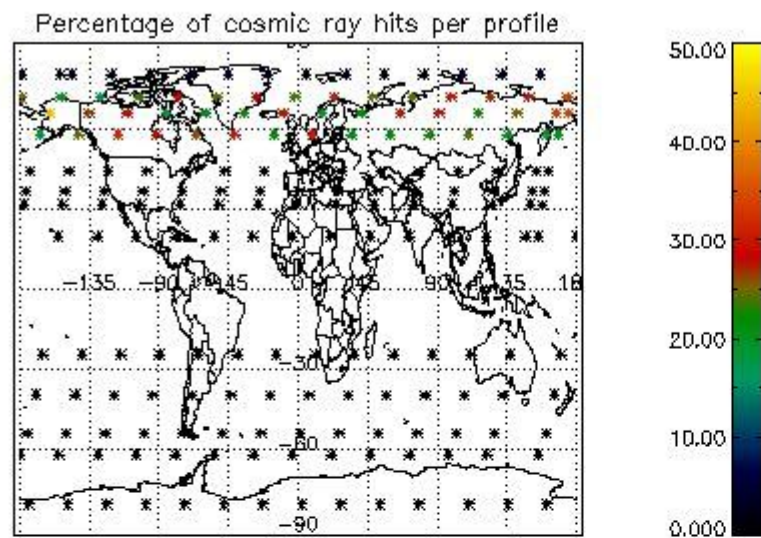


4.2 Plot quality information per product coming from level 1b processing (world map)

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

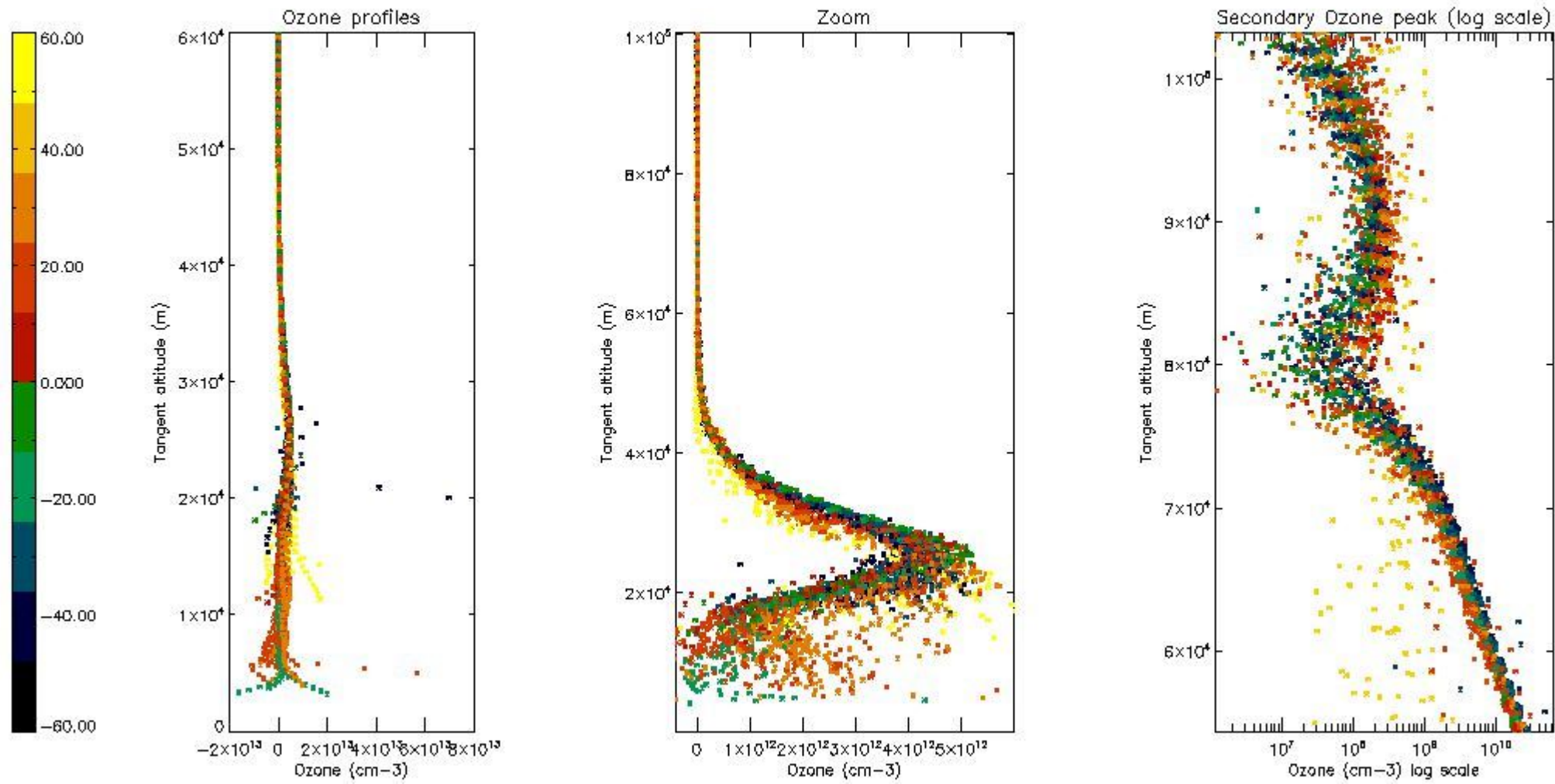
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	19

STD < 10	16
STD < 5	10

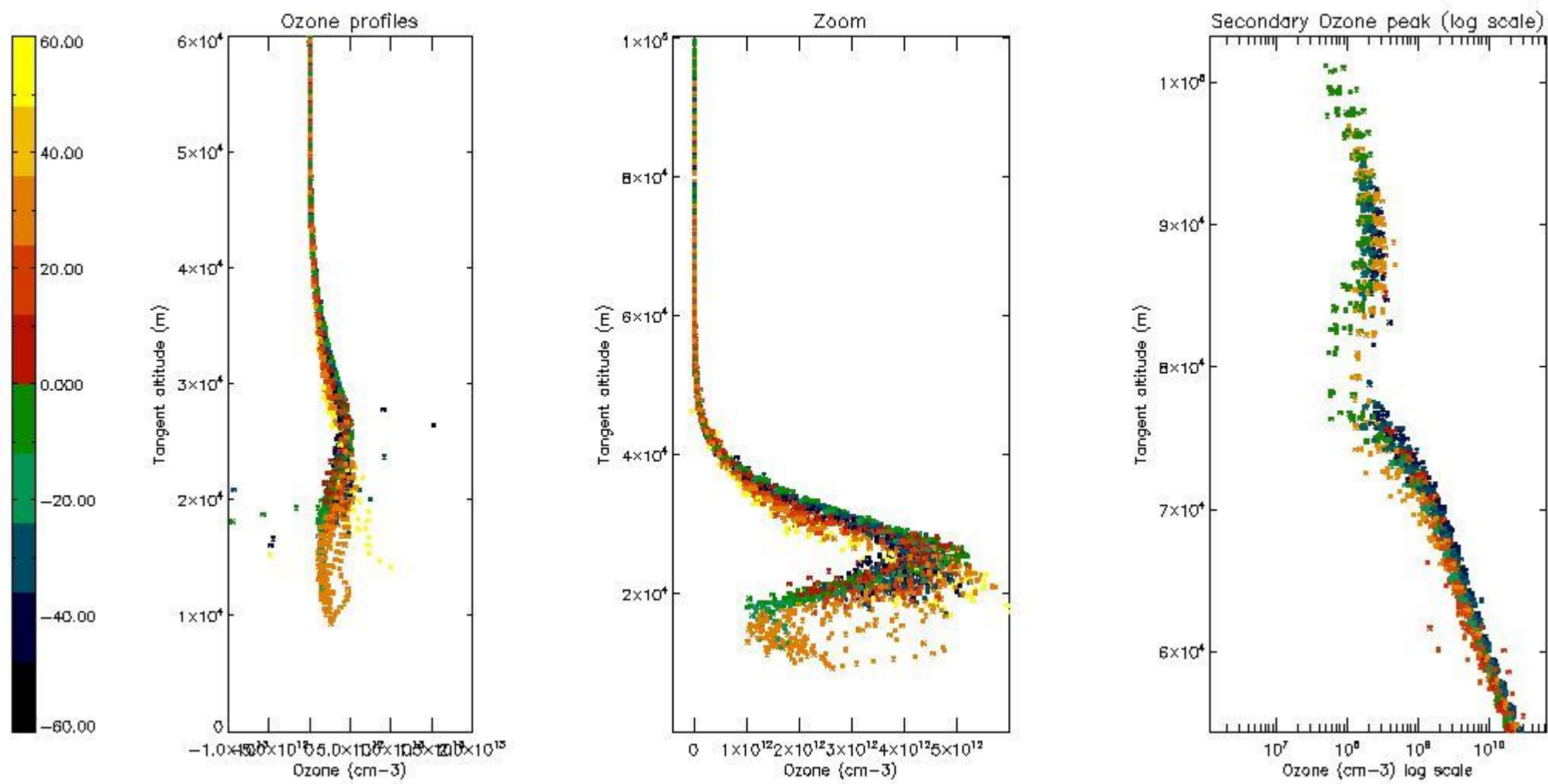
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



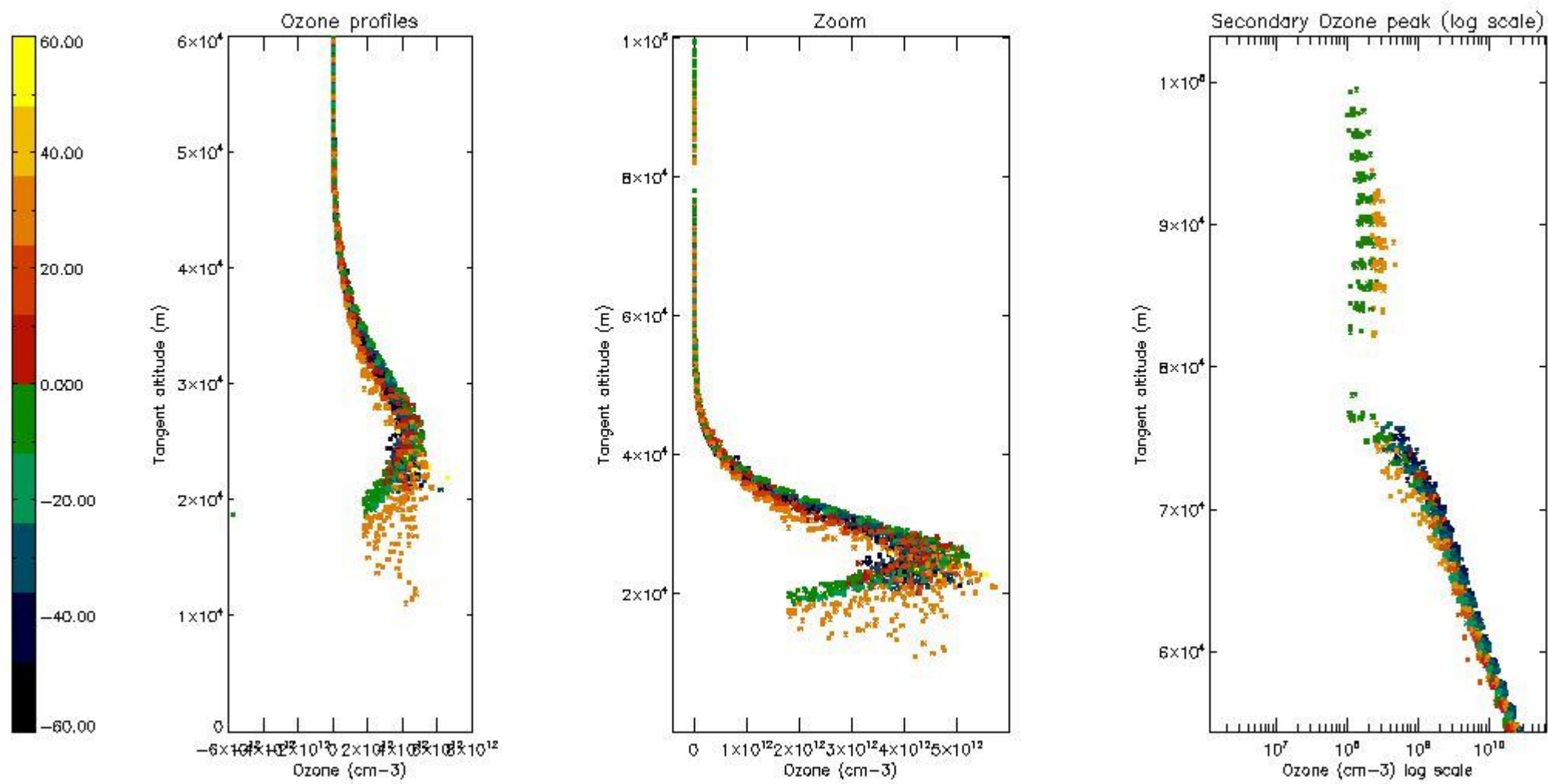
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



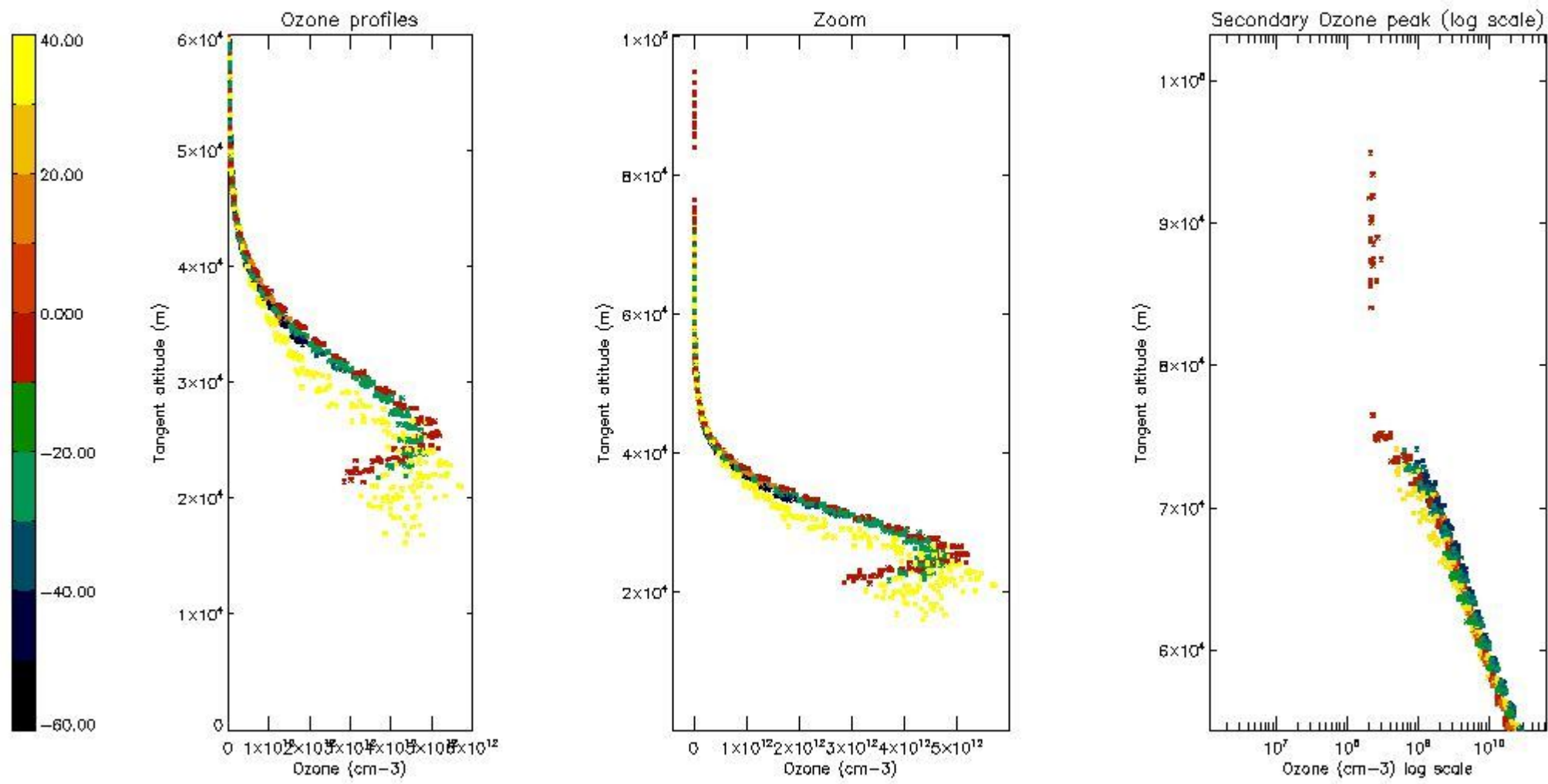
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



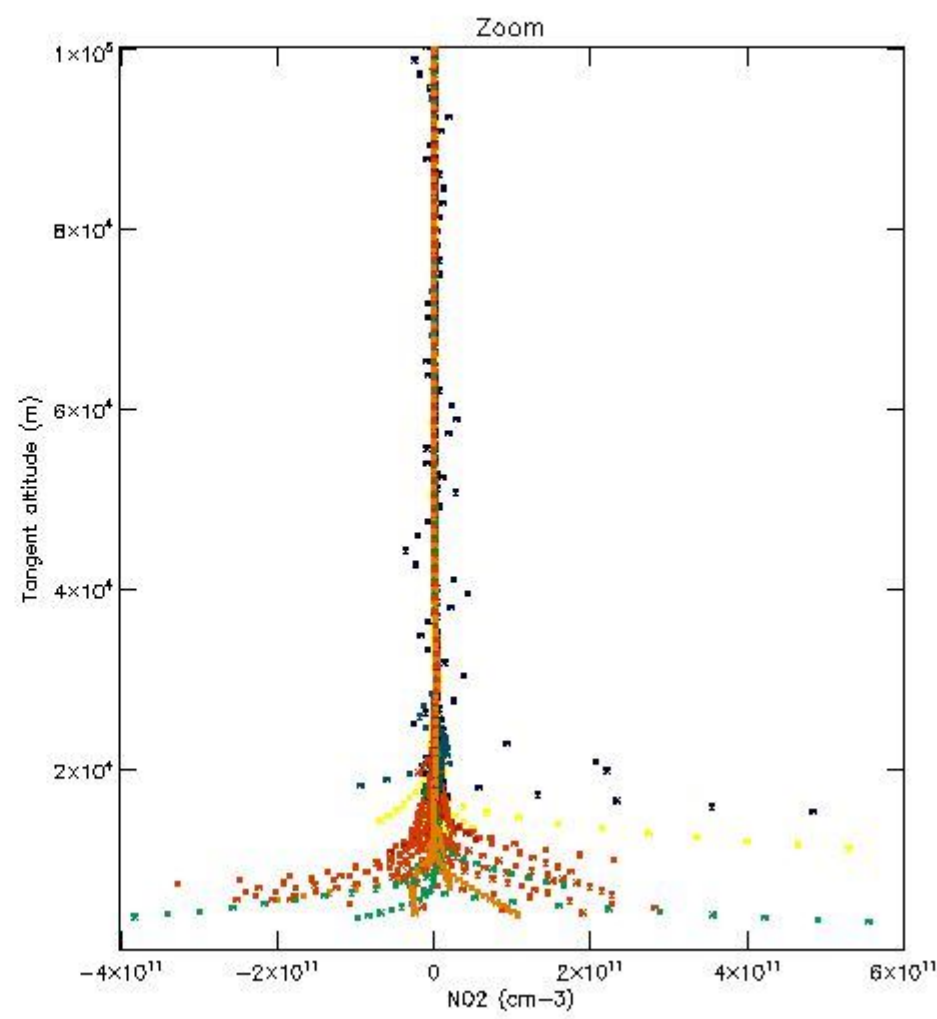
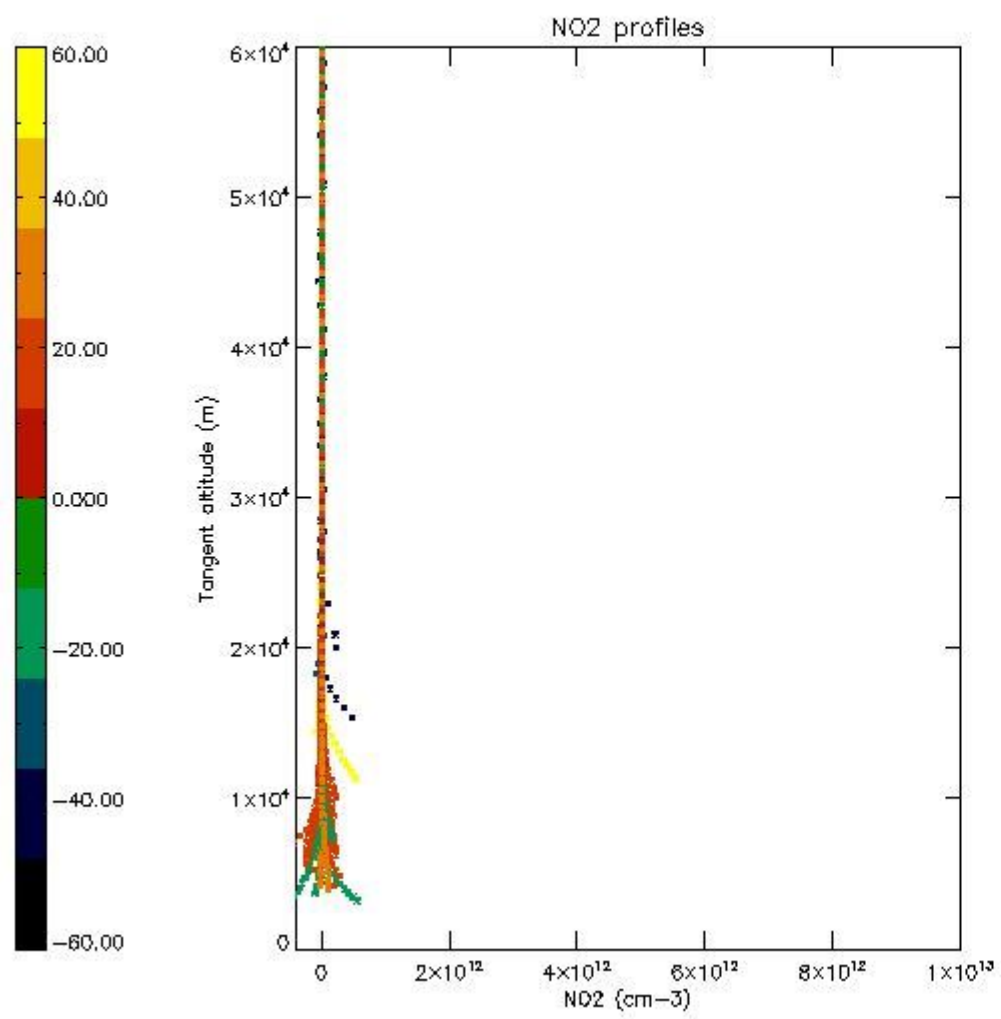
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



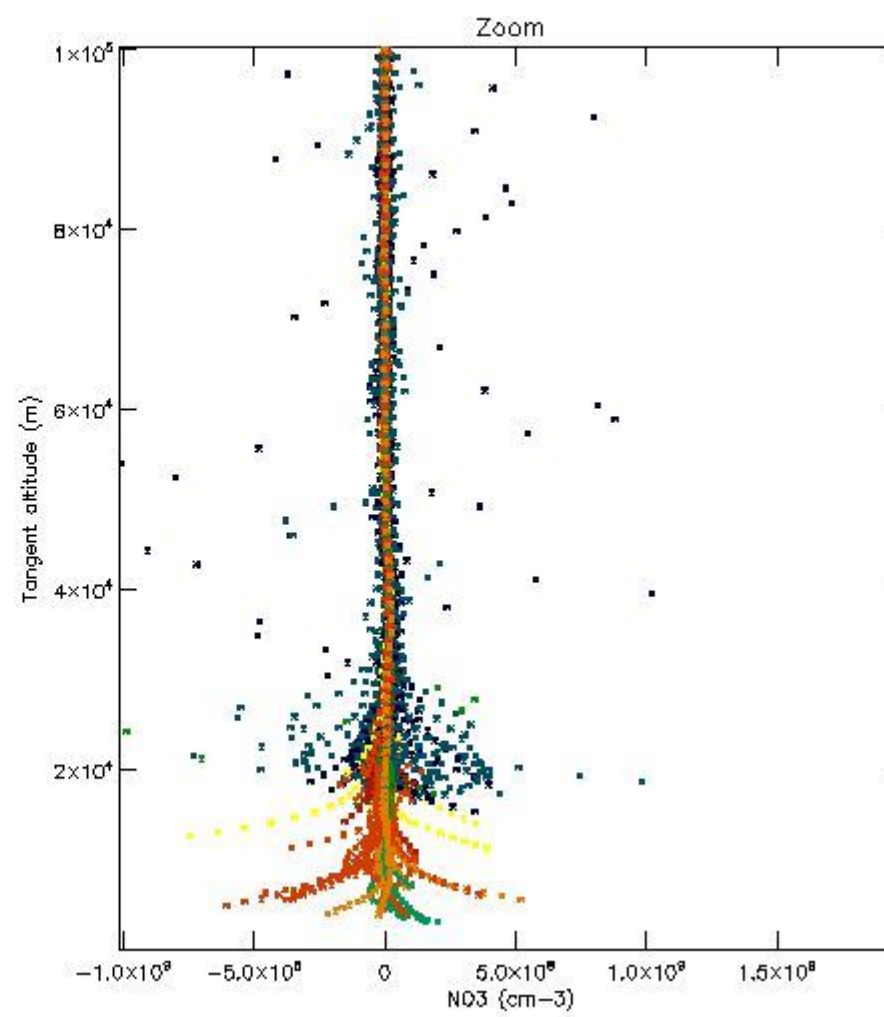
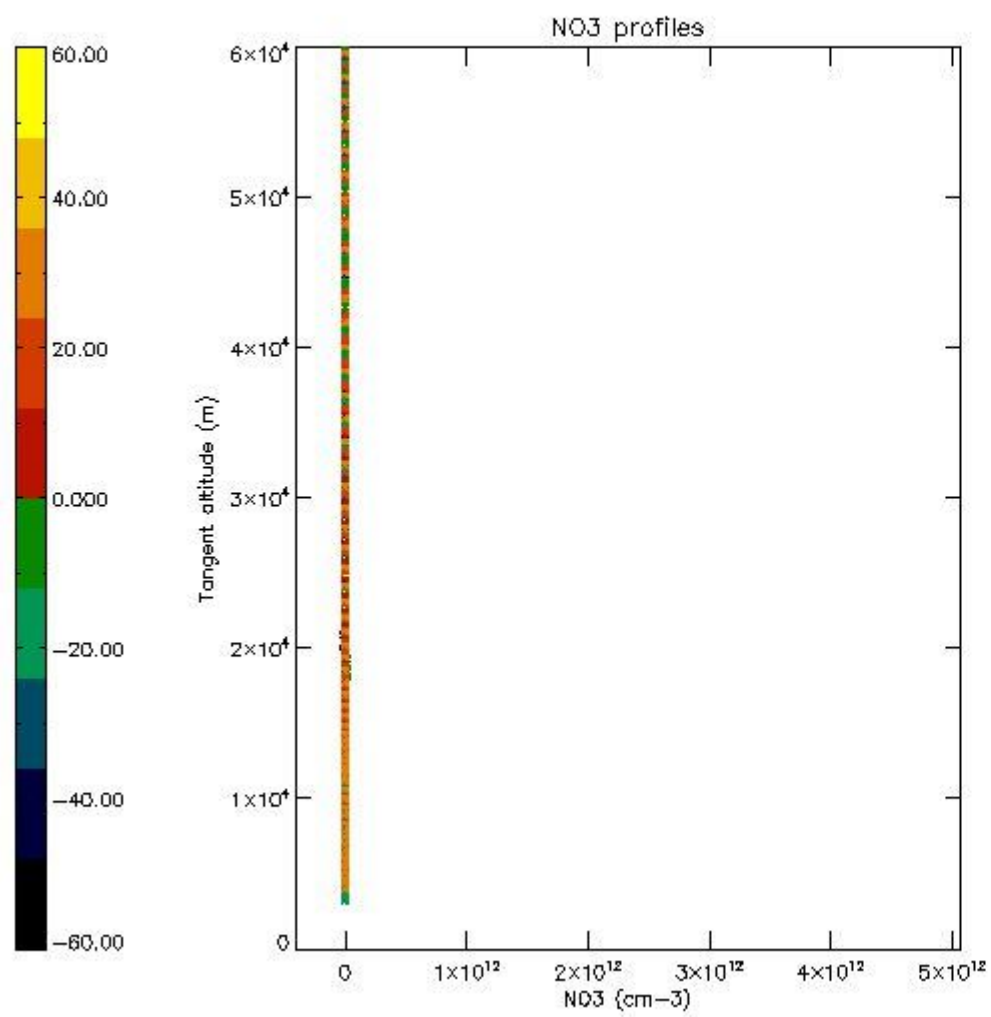
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



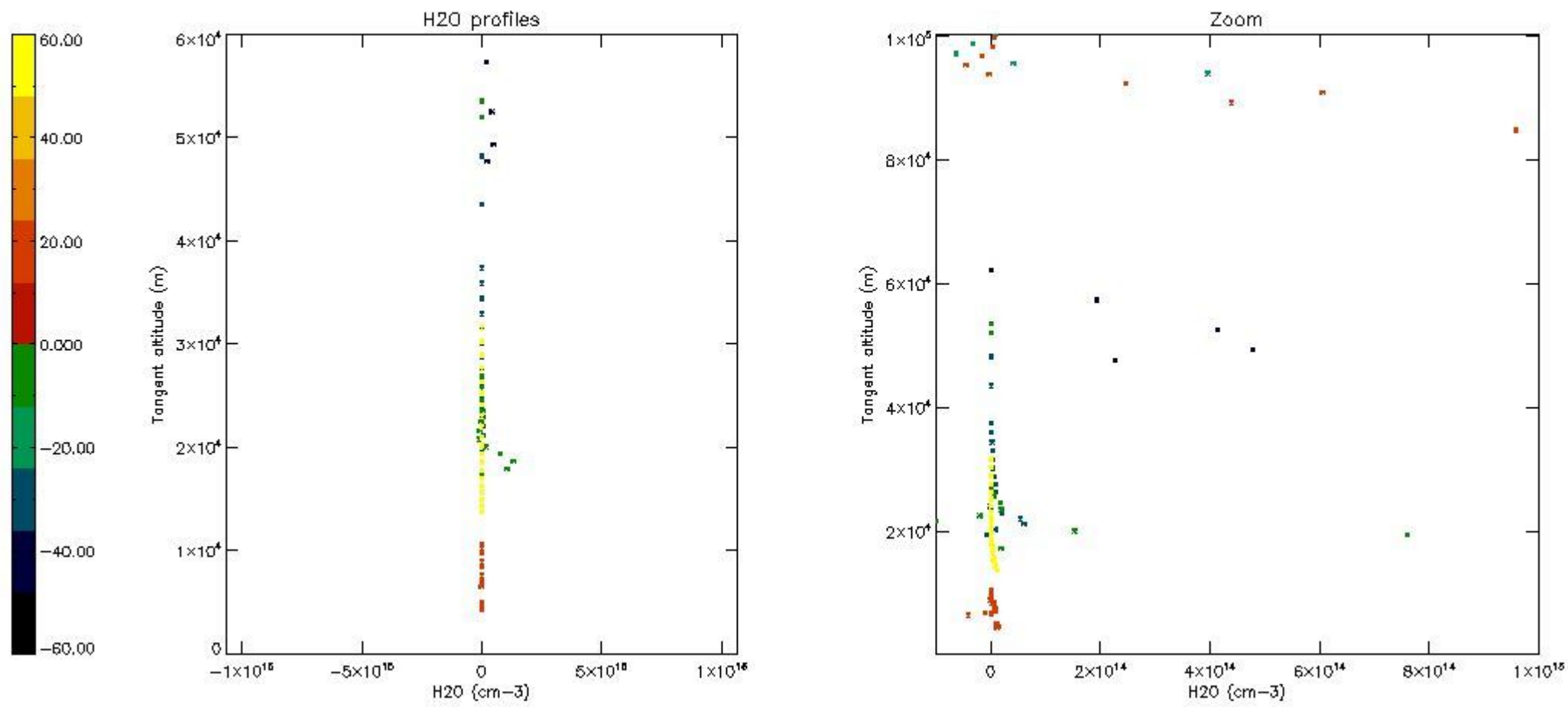
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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)

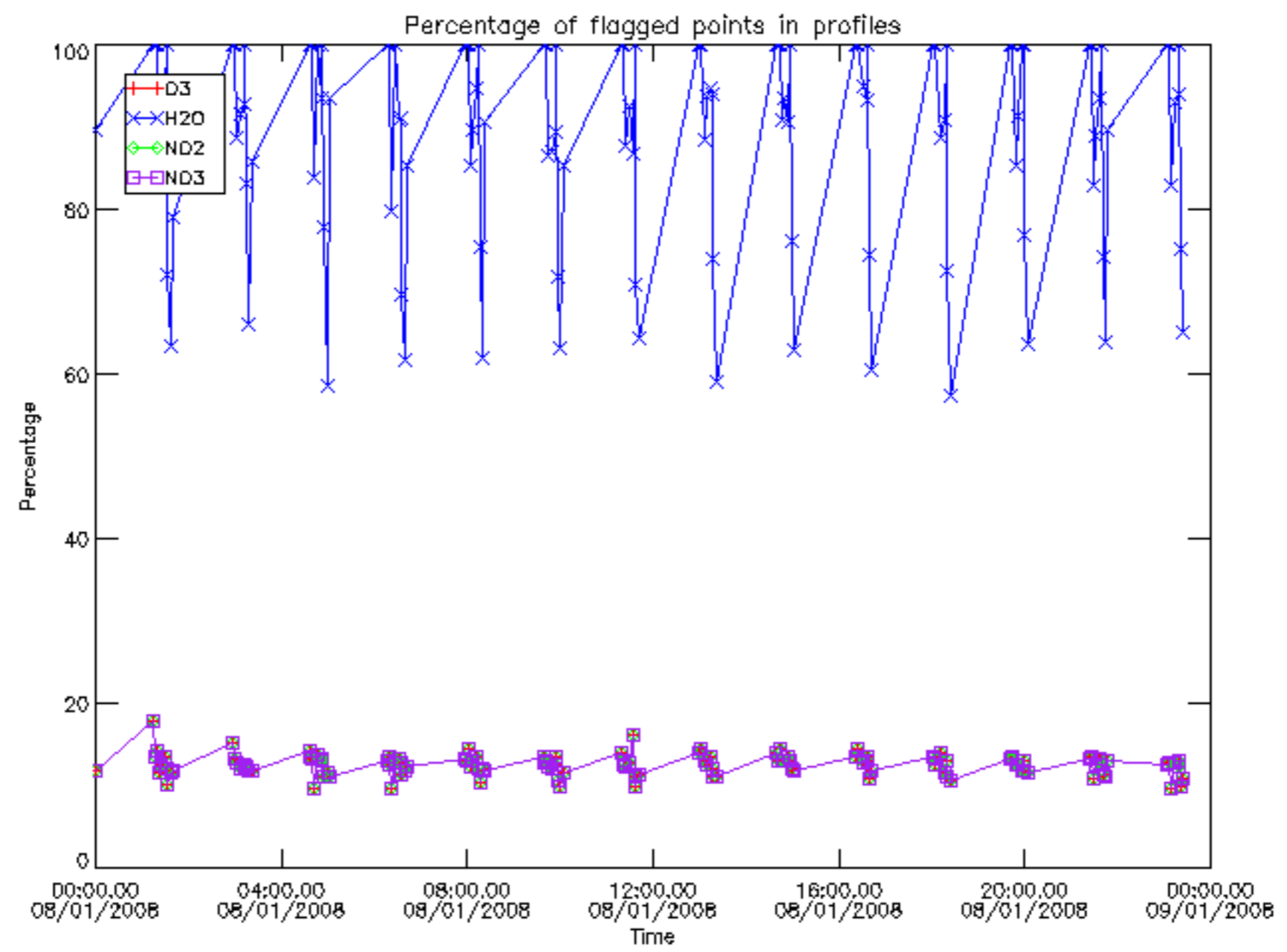
The colorbar represents the latitude.



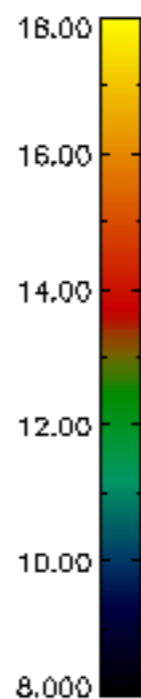
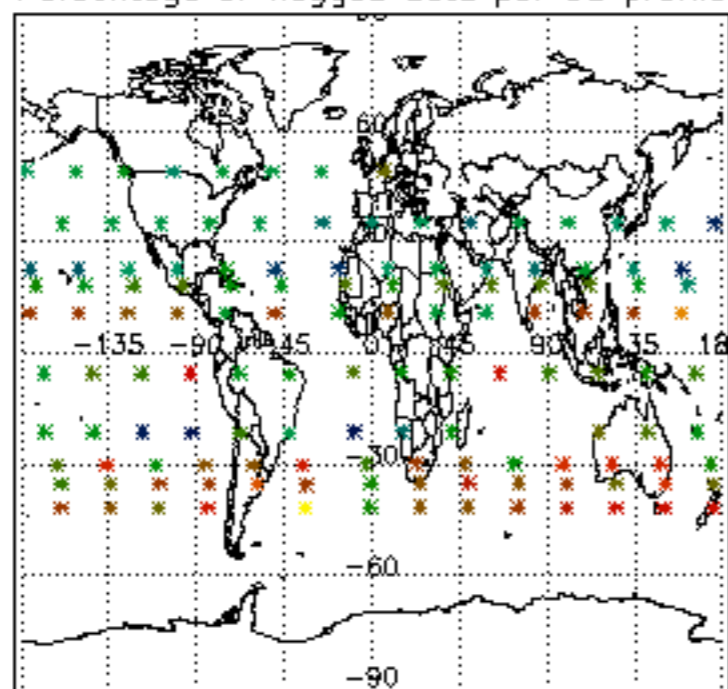
6. Auxiliary Data Files used for the production reported in section 2

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.

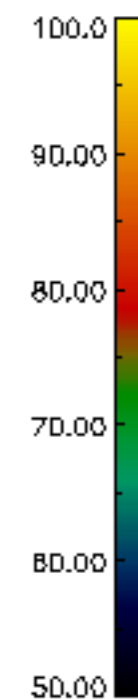
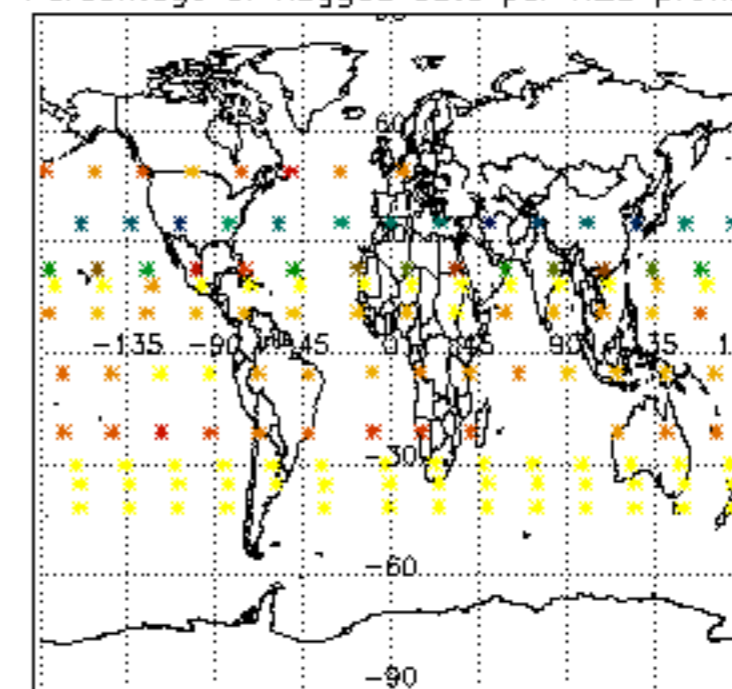
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	08-JAN-2008 00:00:11
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	08-JAN-2008 00:00:11
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	08-JAN-2008 00:00:11



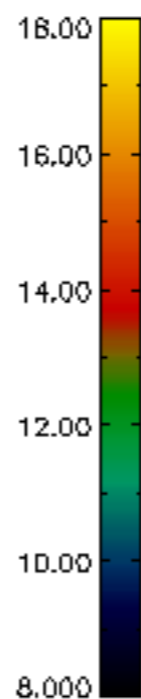
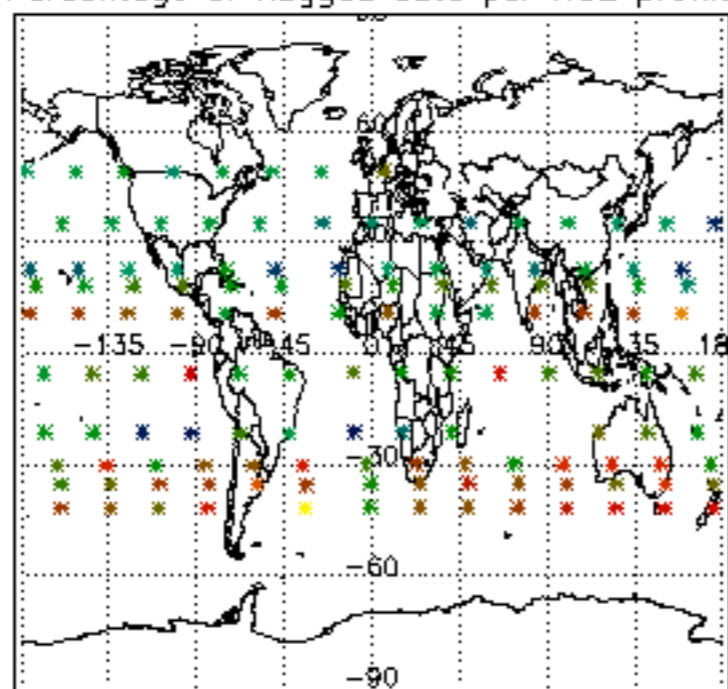
Percentage of flagged data per D3 profile



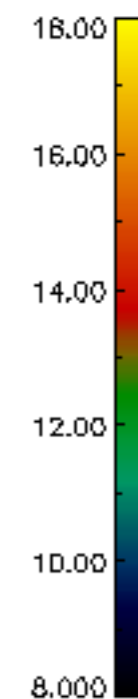
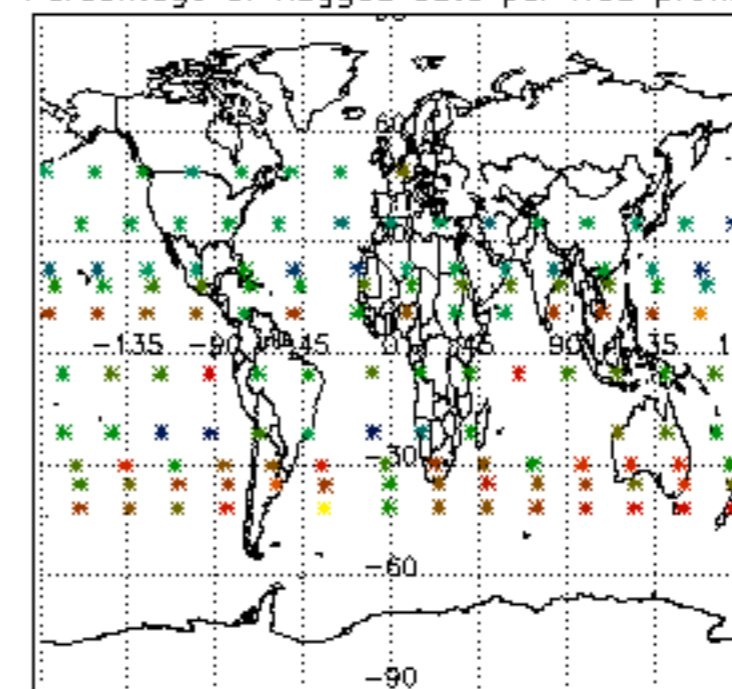
Percentage of flagged data per H2O profile

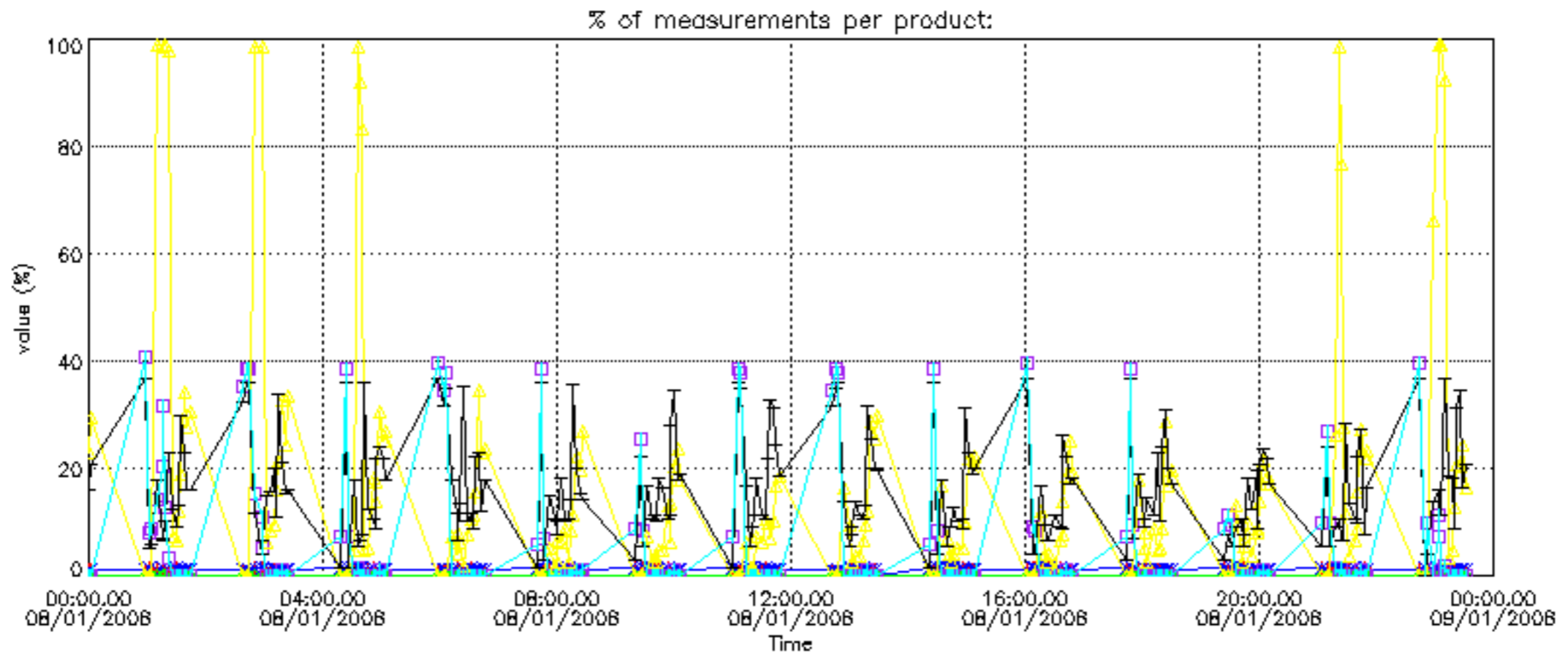


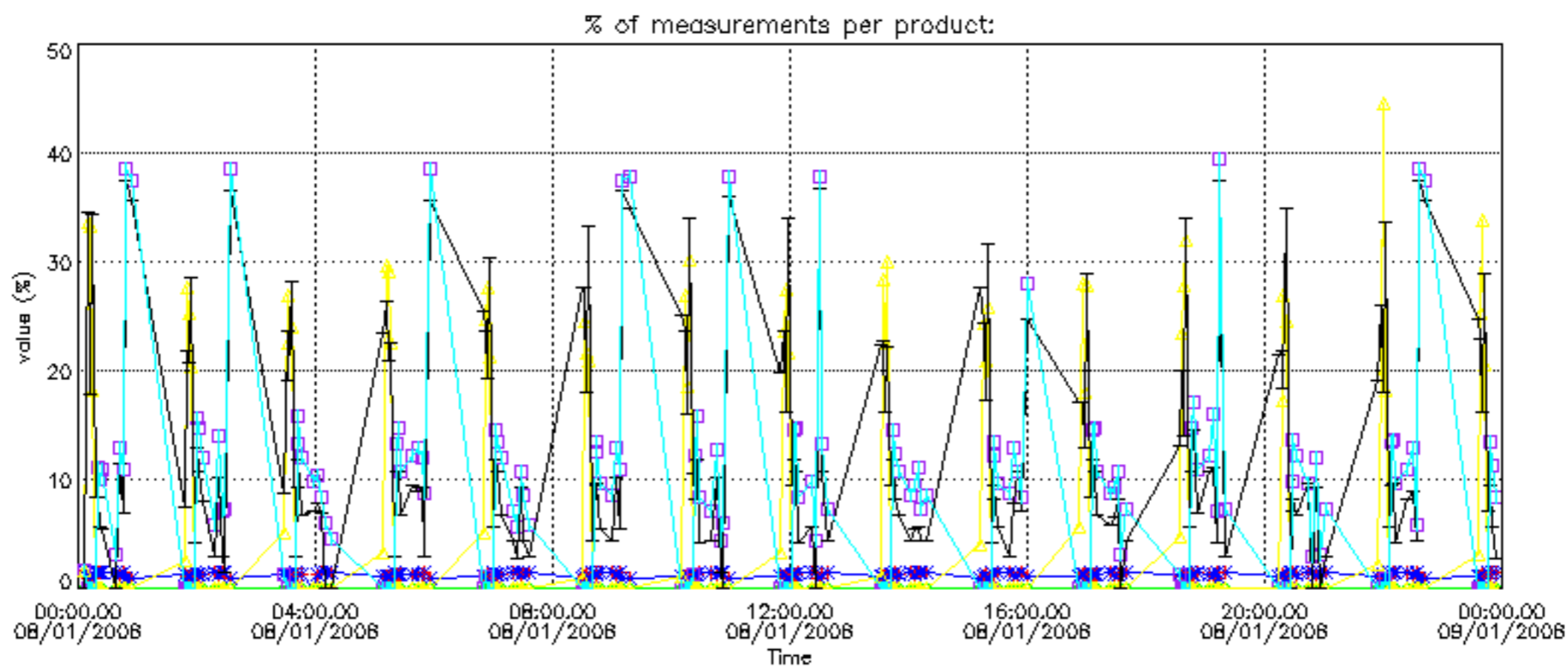
Percentage of flagged data per NO2 profile



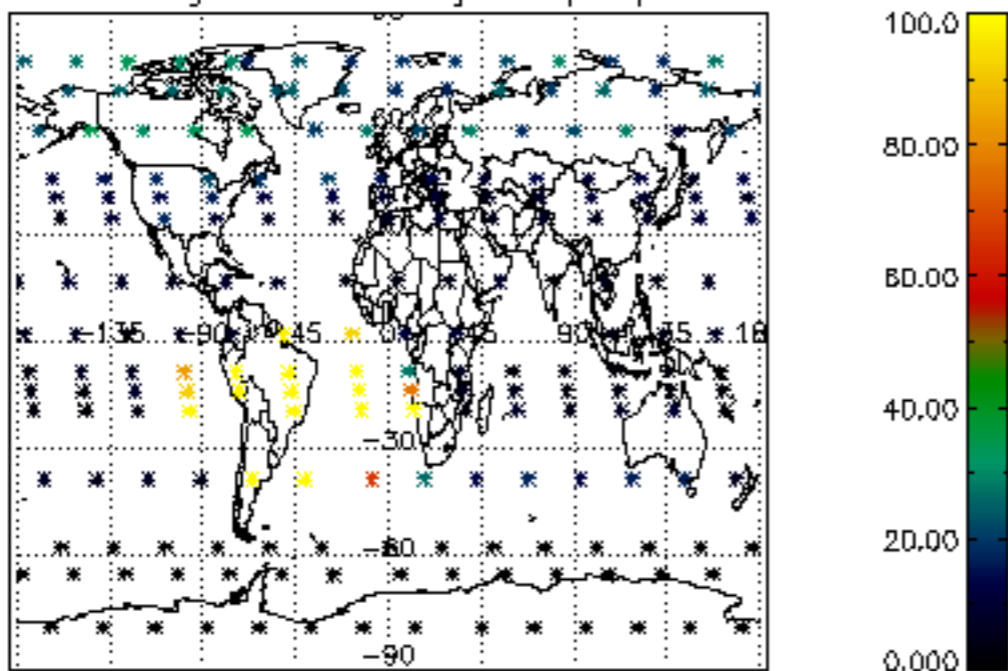
Percentage of flagged data per NO3 profile



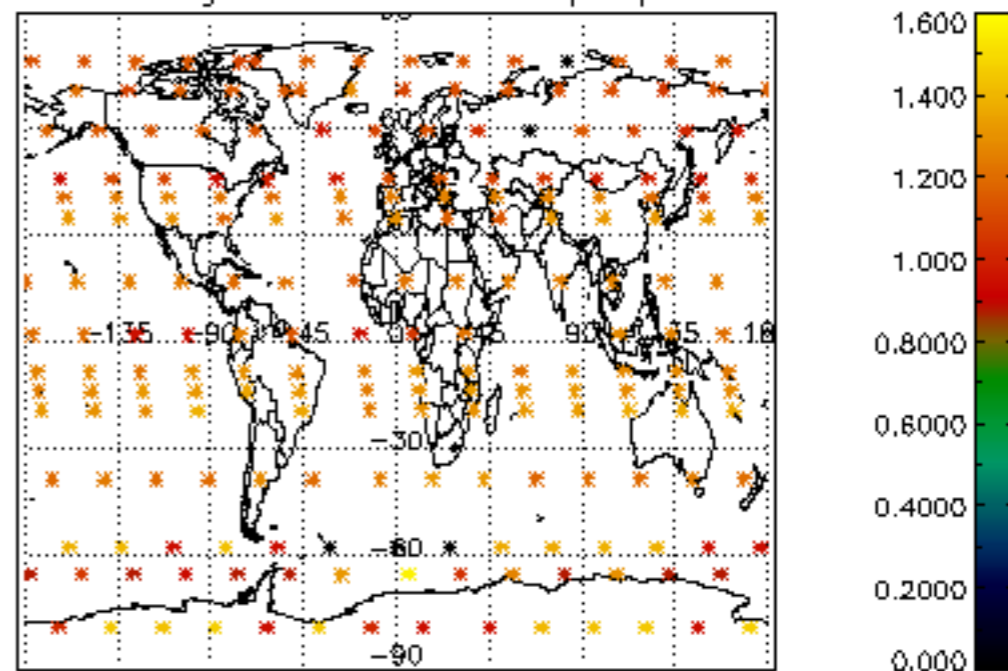




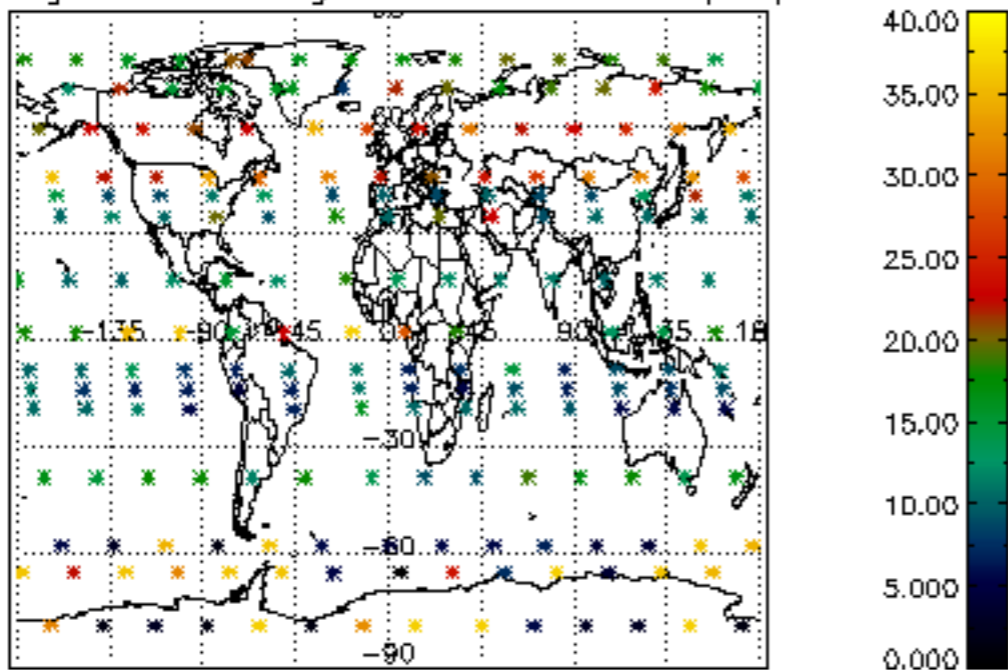
Percentage of cosmic ray hits per profile



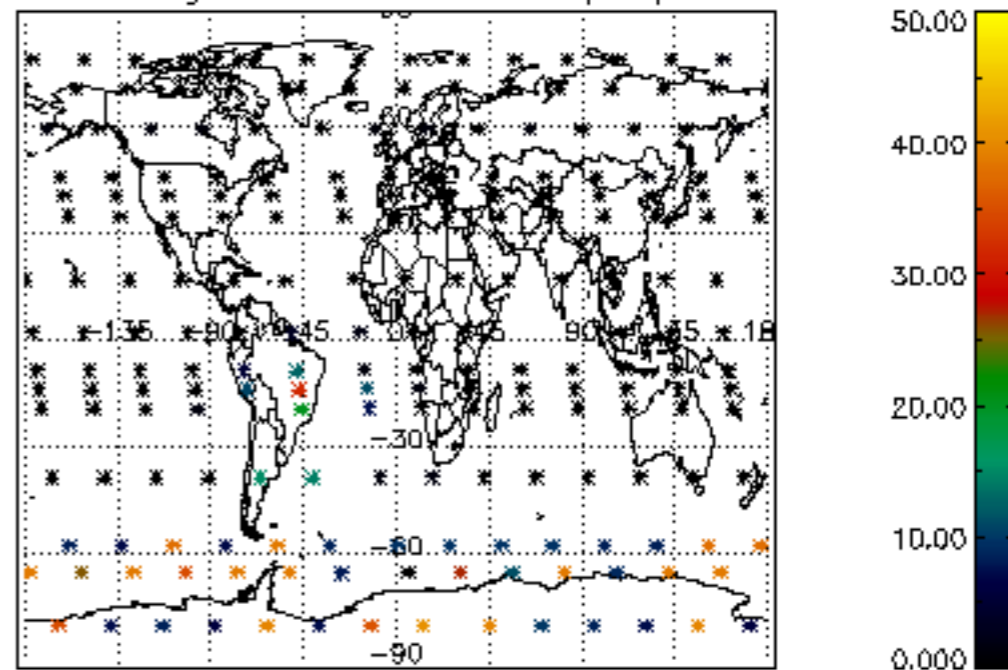
Percentage of datation errors per profile



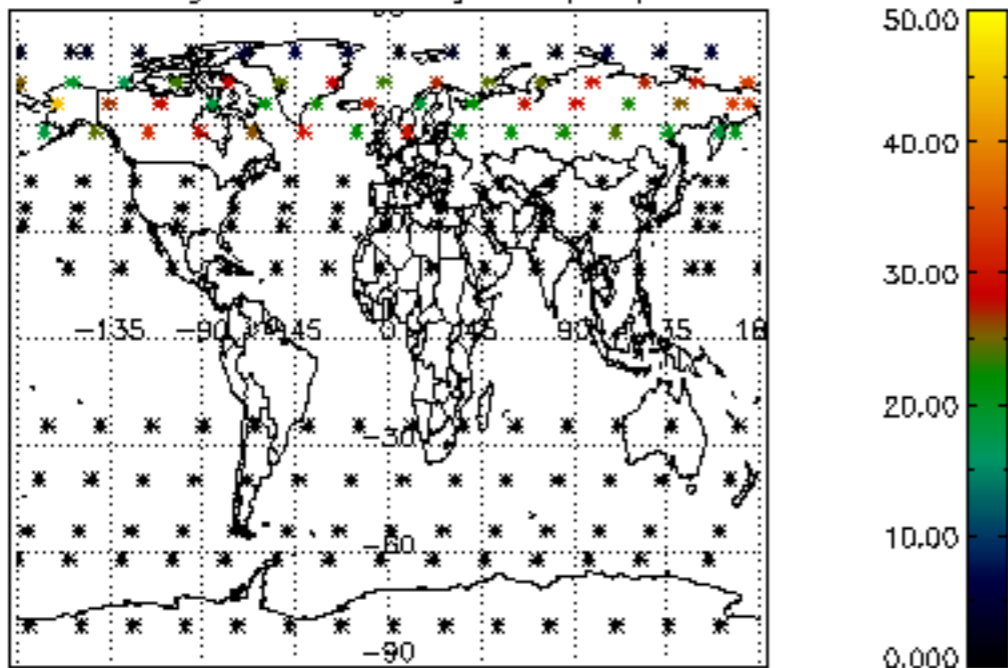
Percentage of star falling outside central band per profile



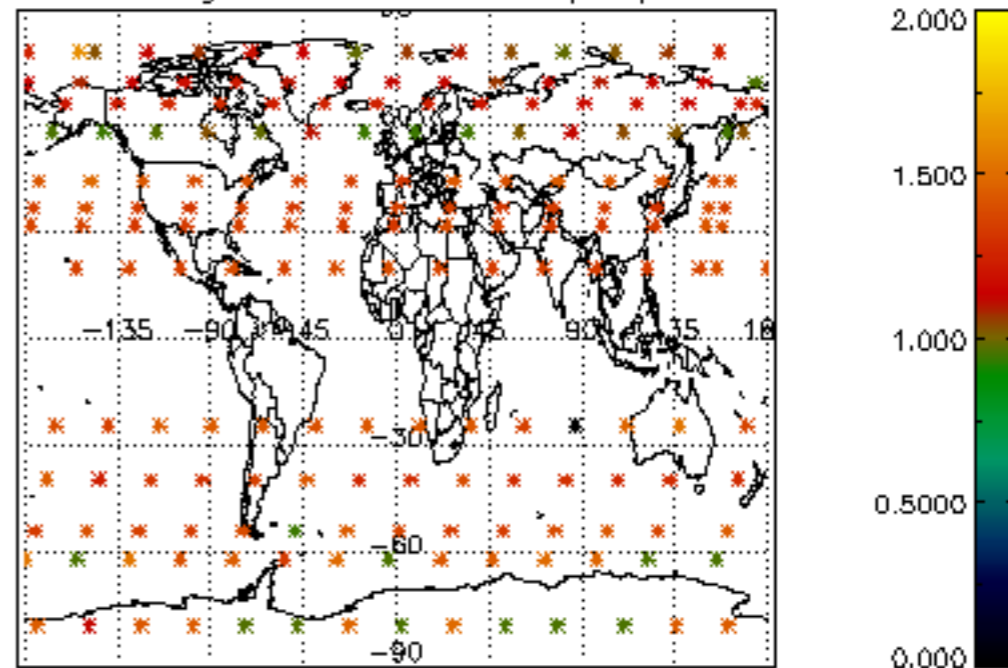
Percentage of saturation errors per profile



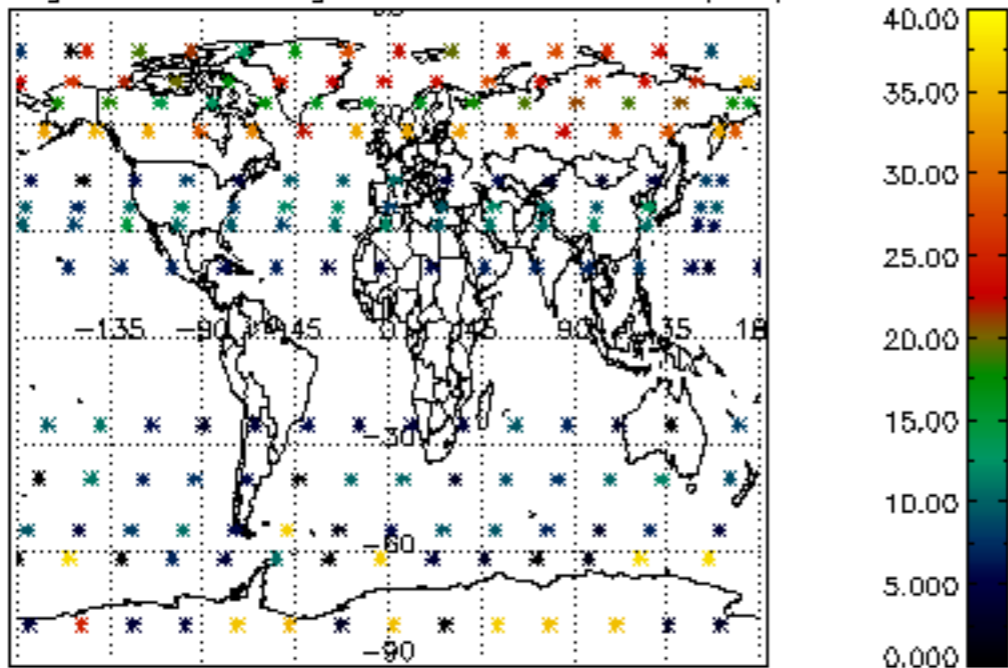
Percentage of cosmic ray hits per profile



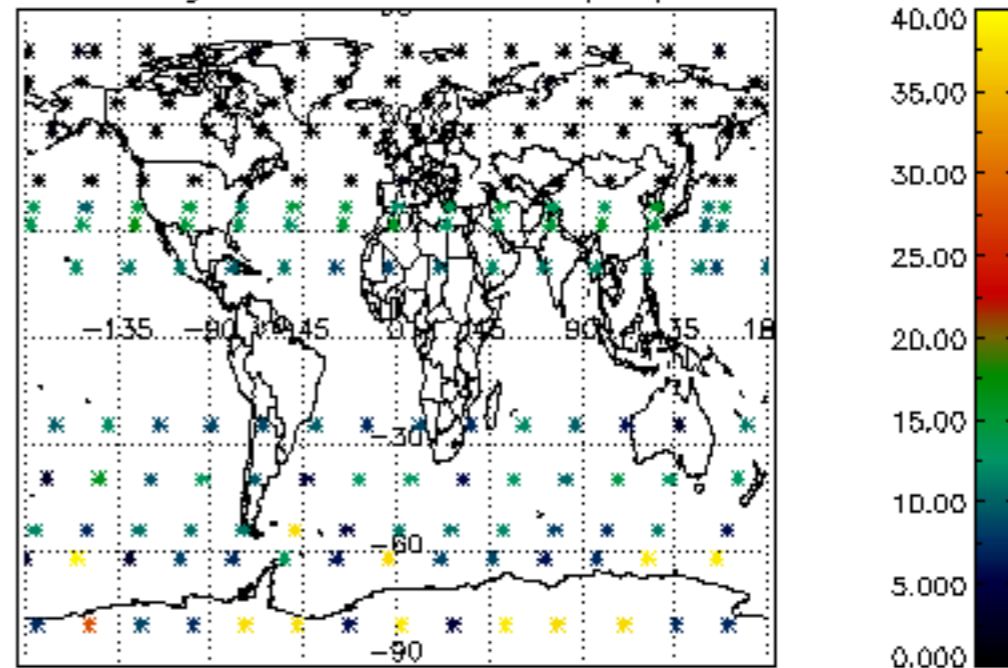
Percentage of datation errors per profile

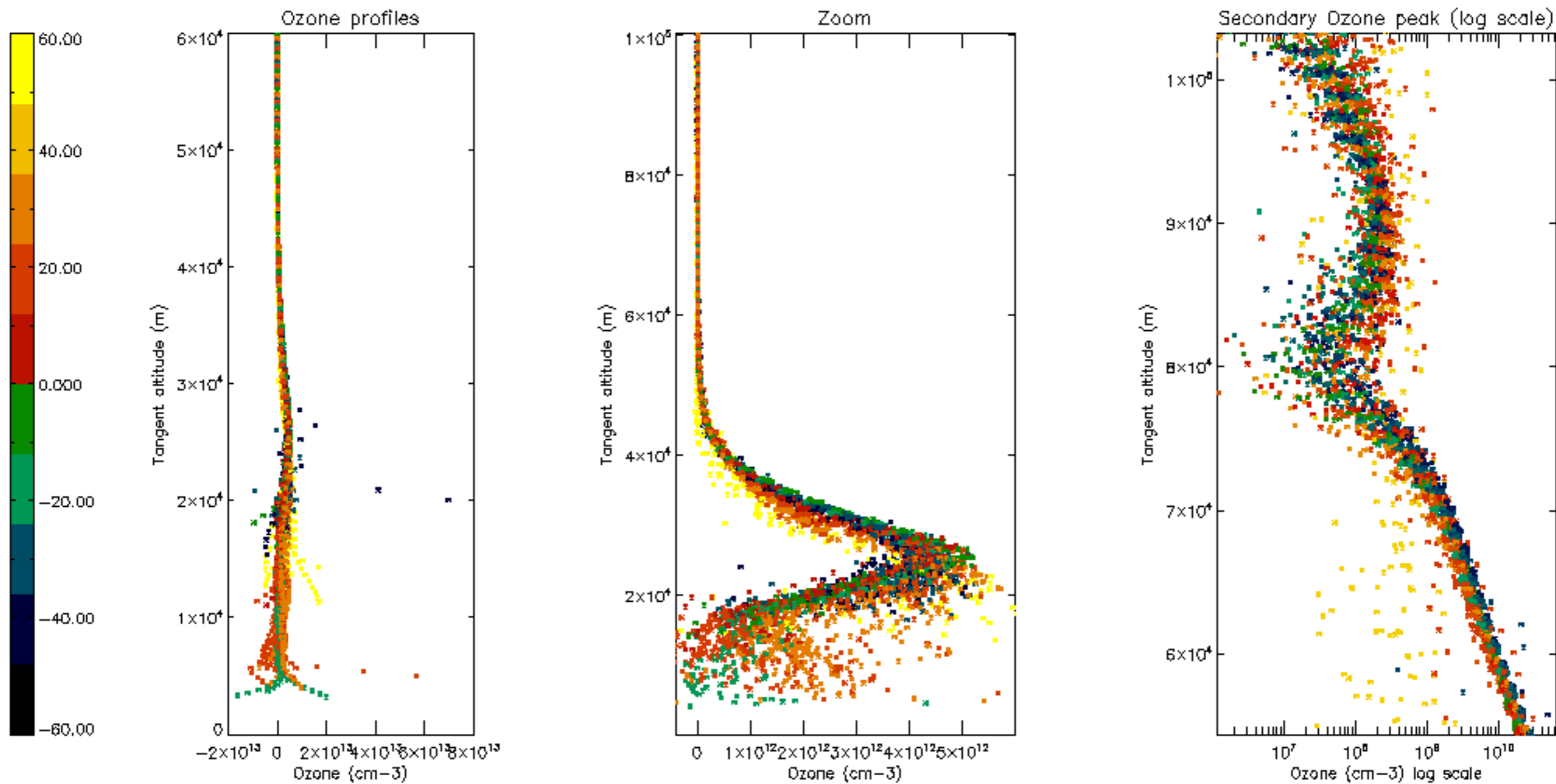


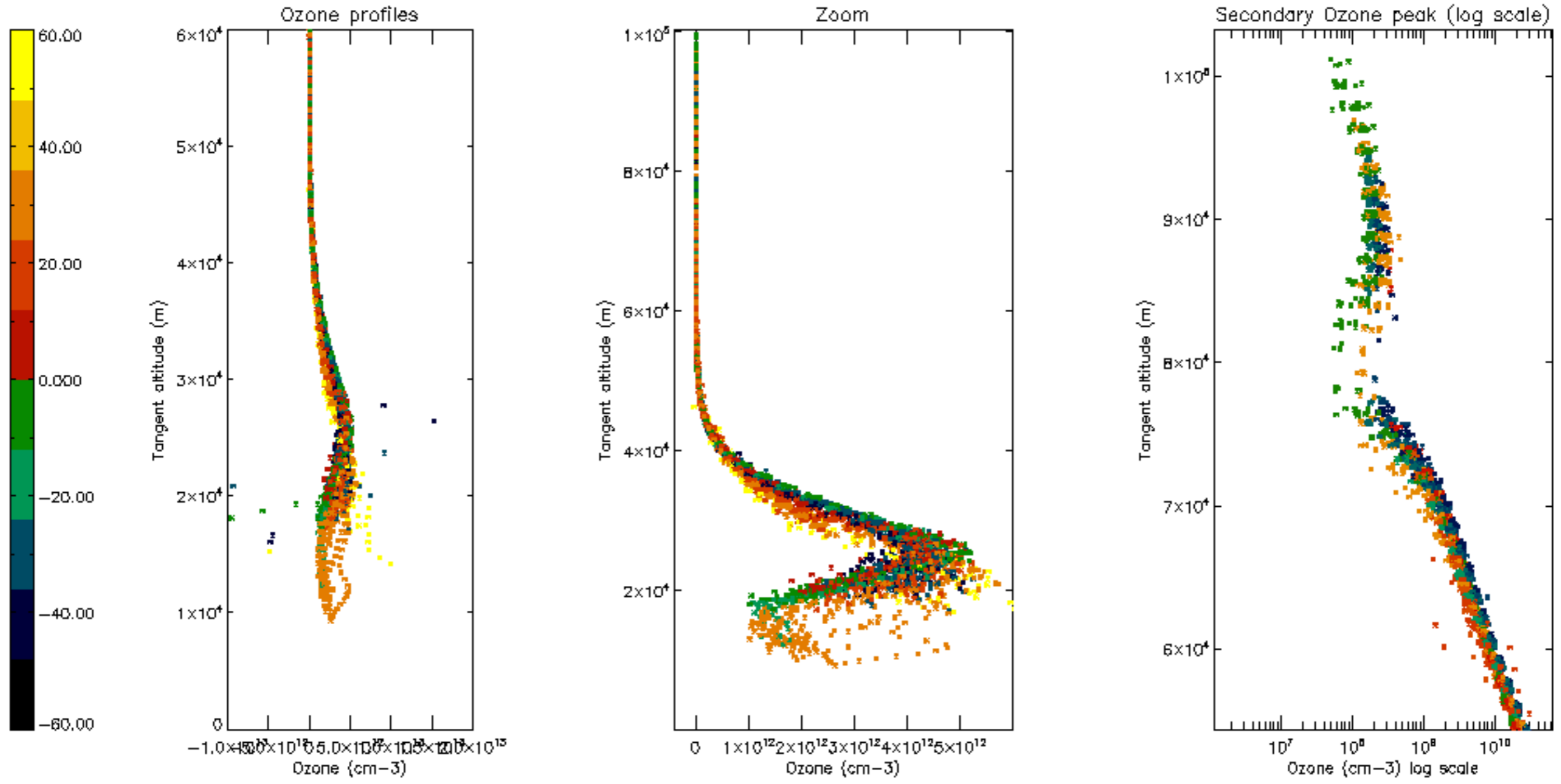
Percentage of star falling outside central band per profile

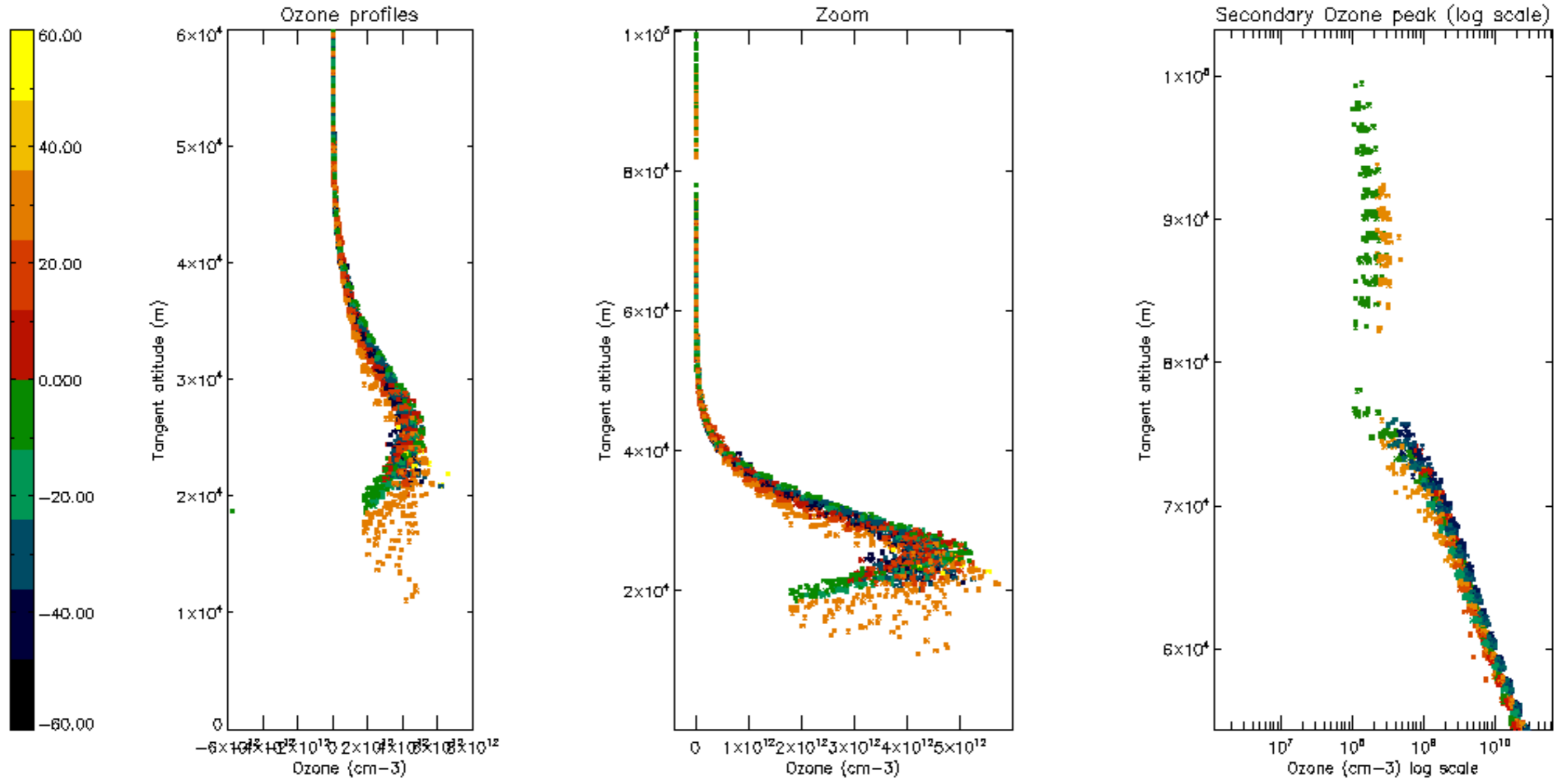


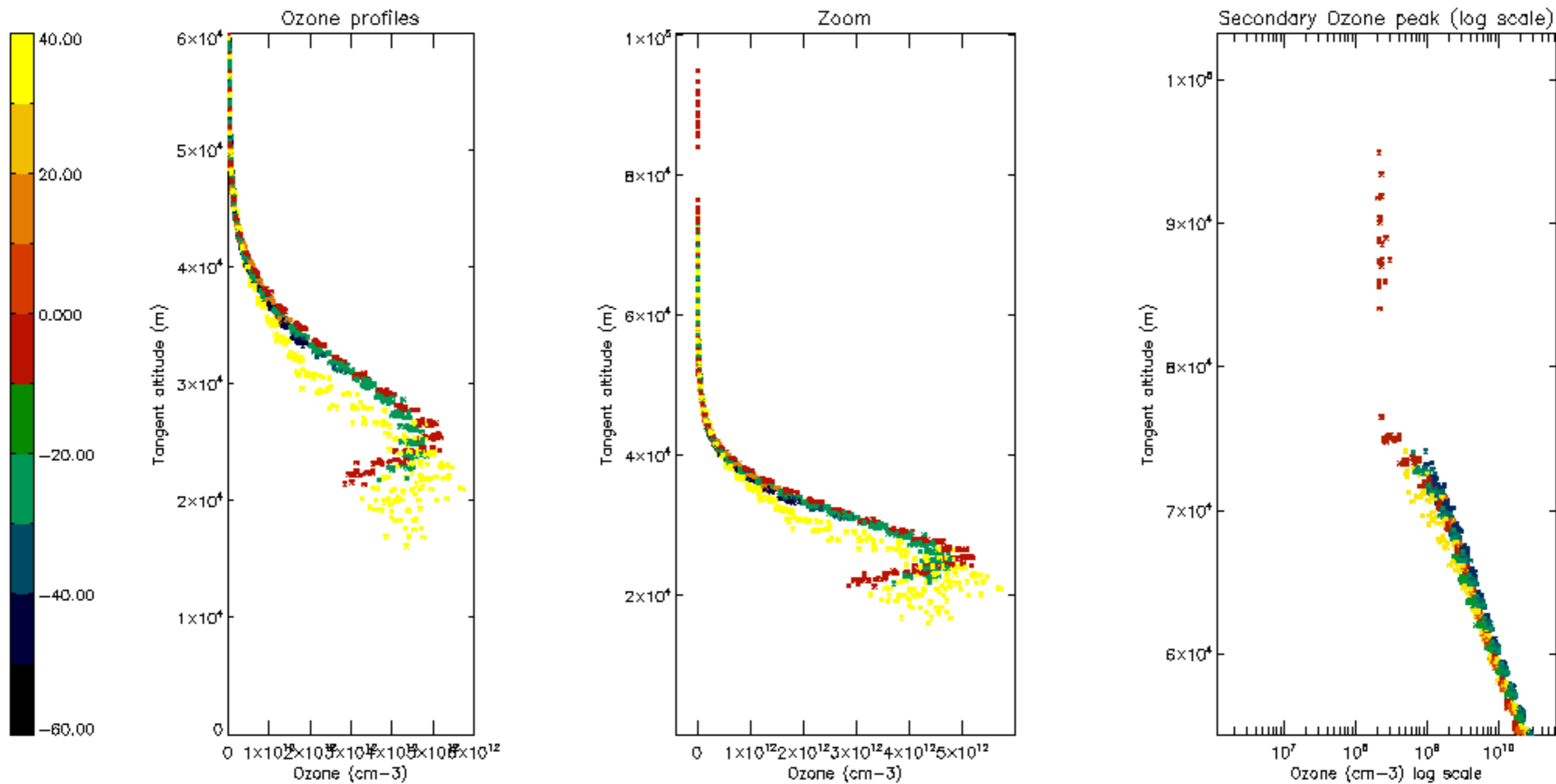
Percentage of saturation errors per profile

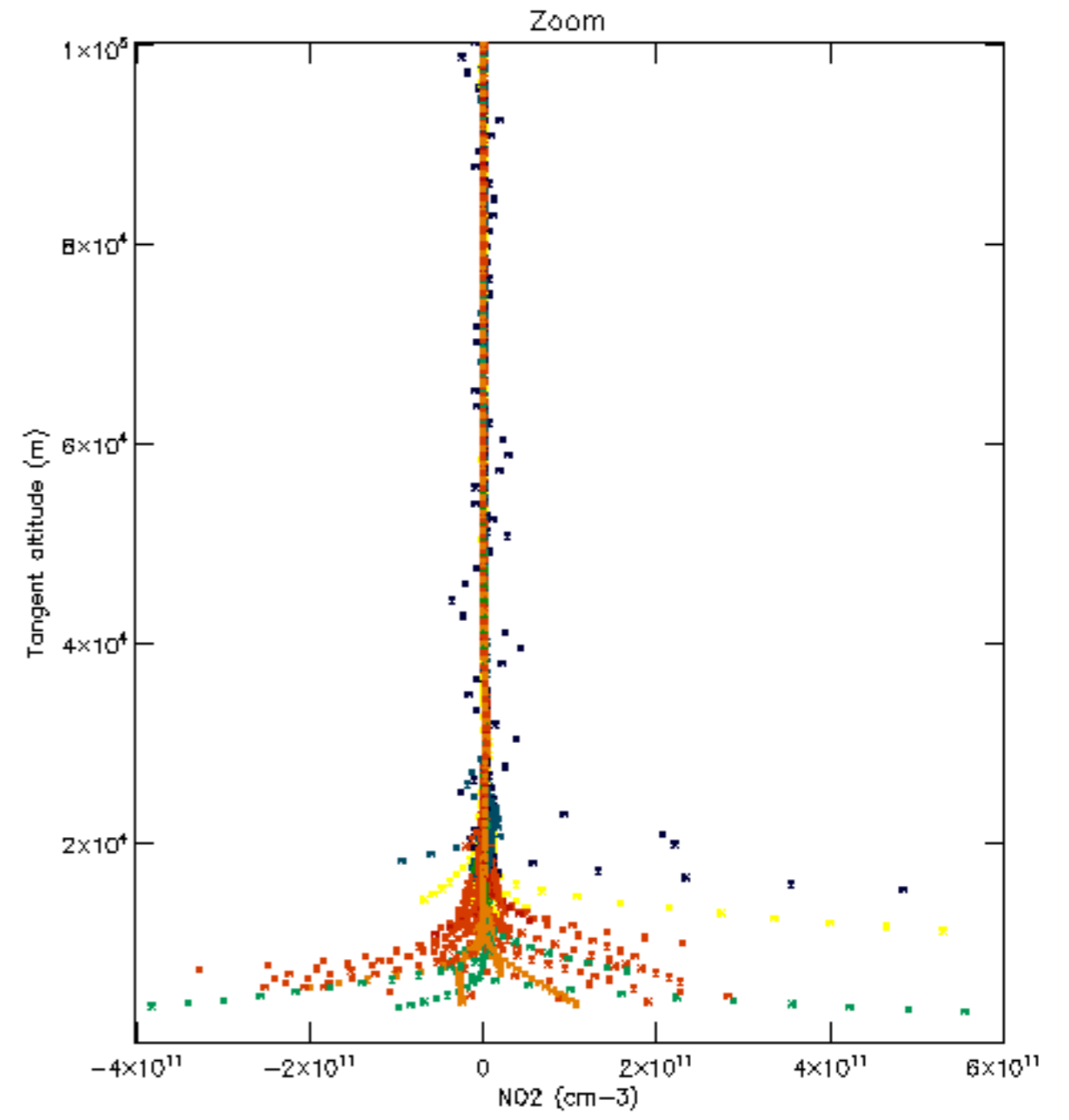
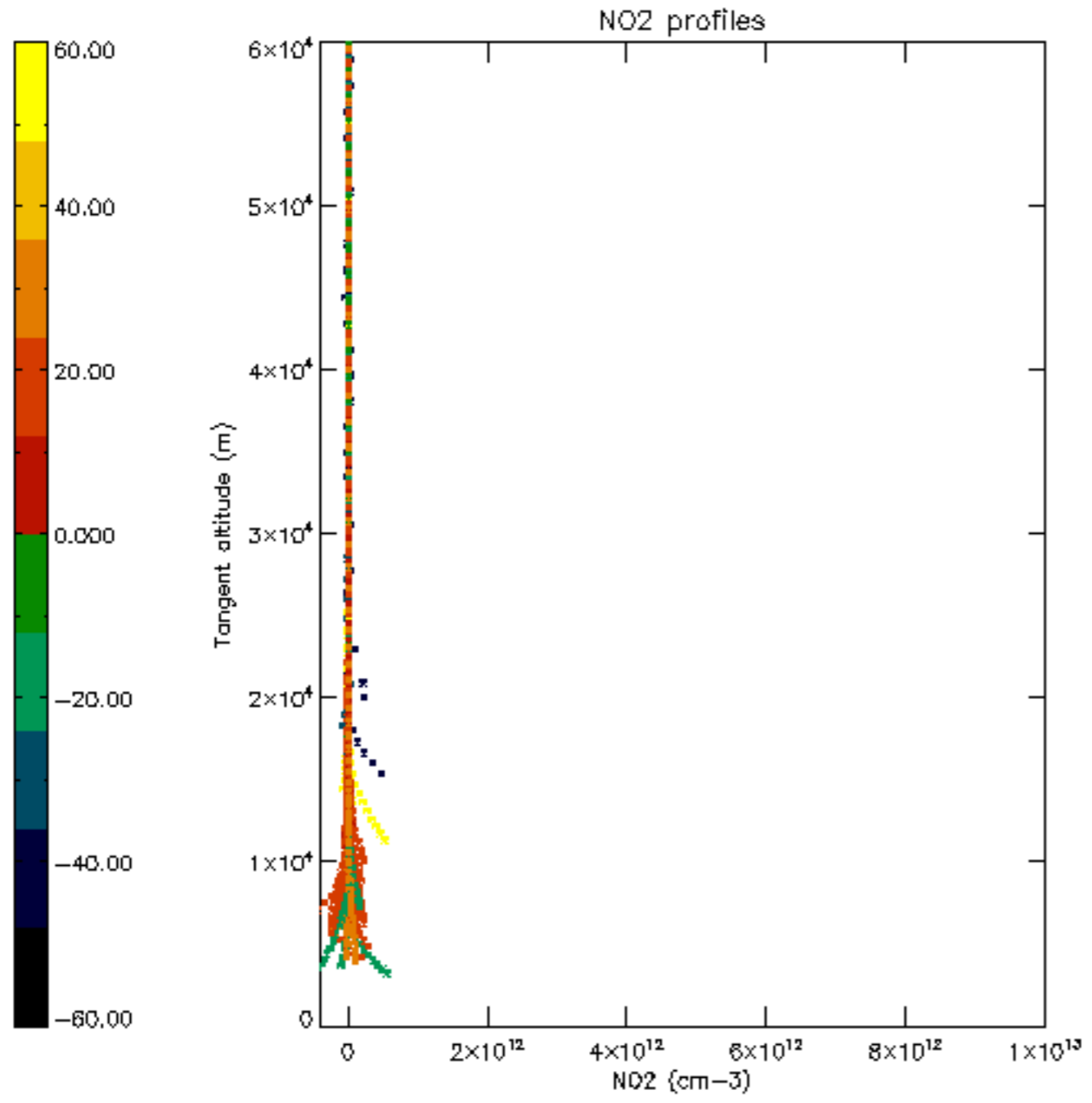


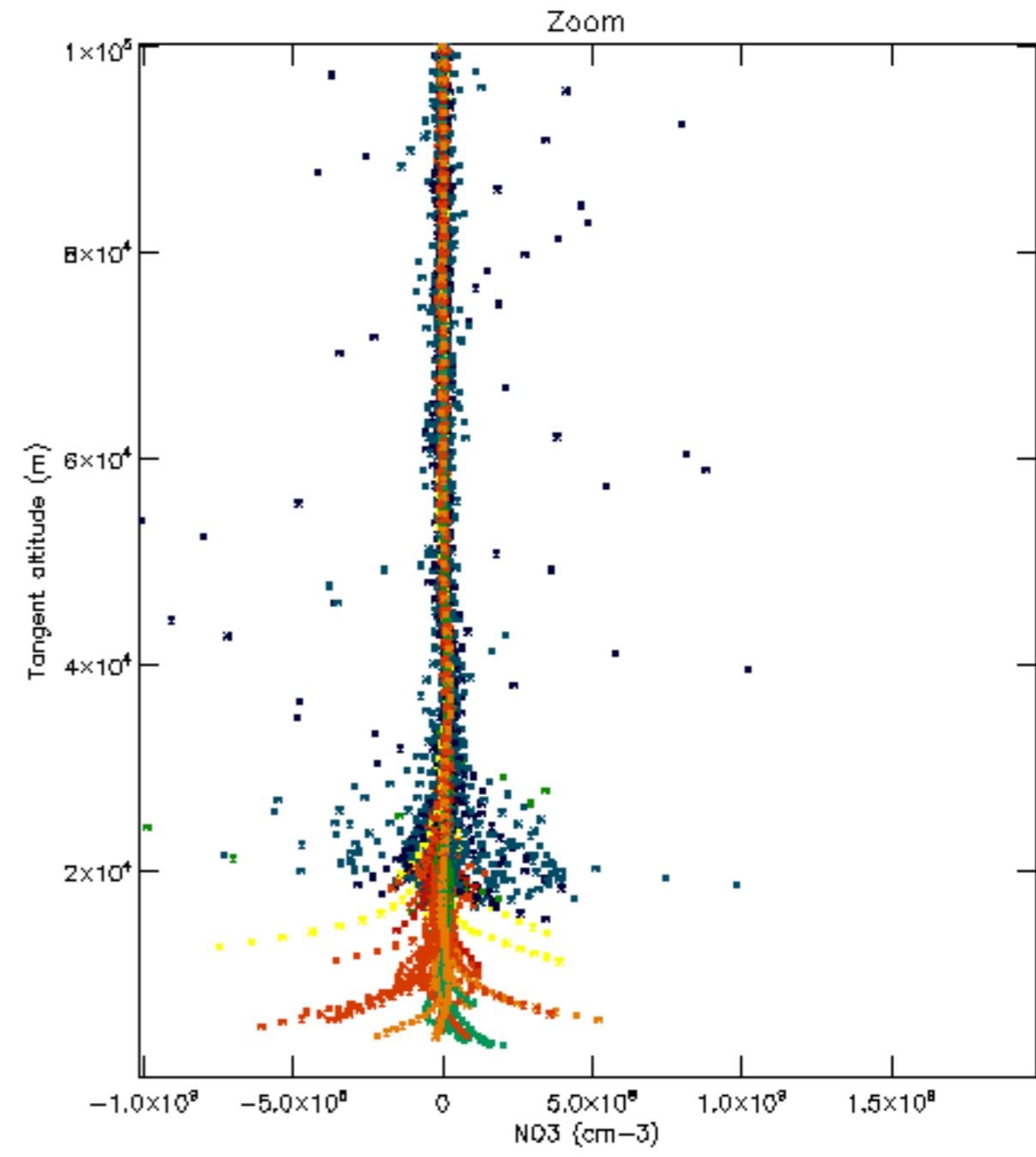
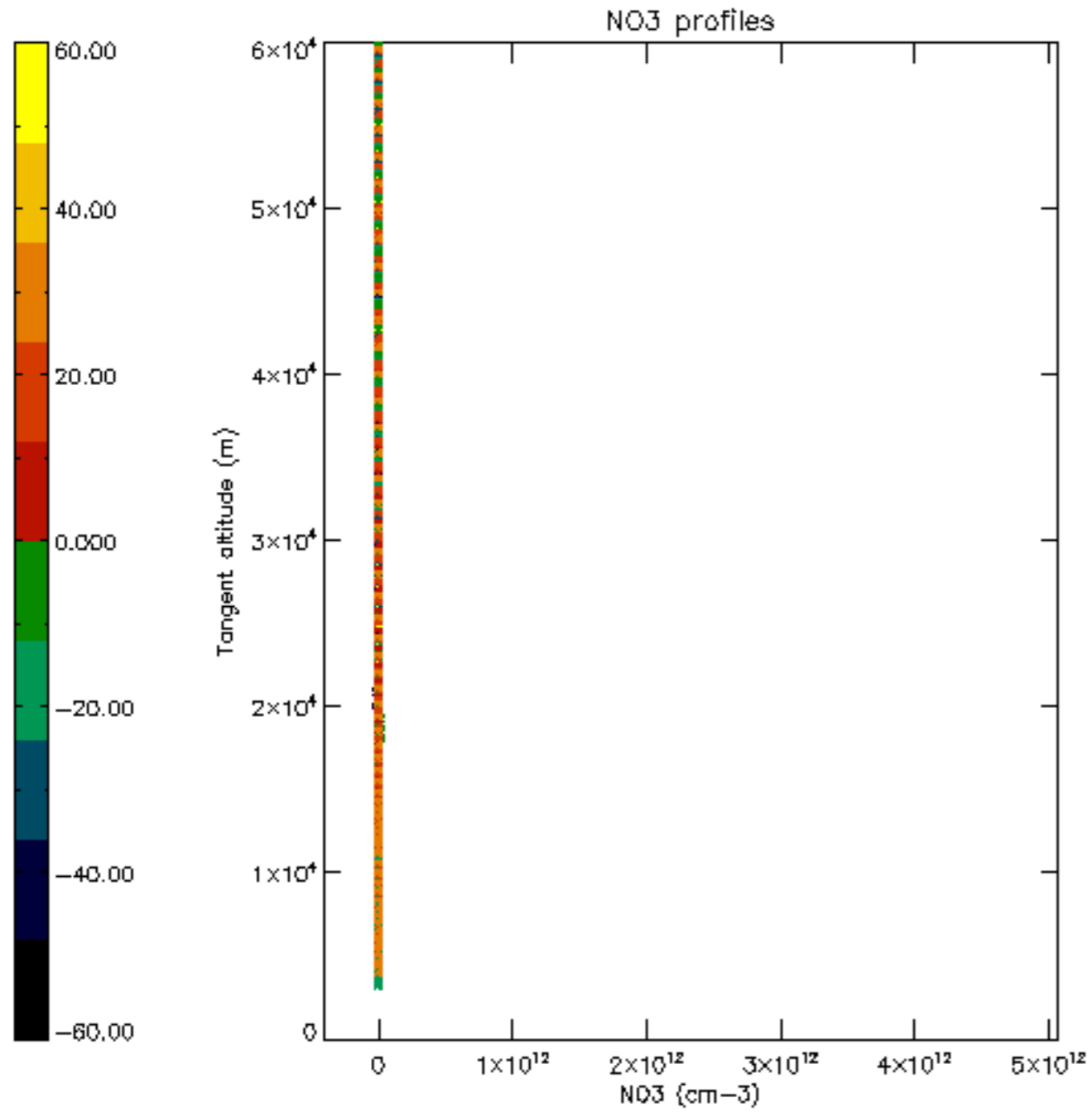


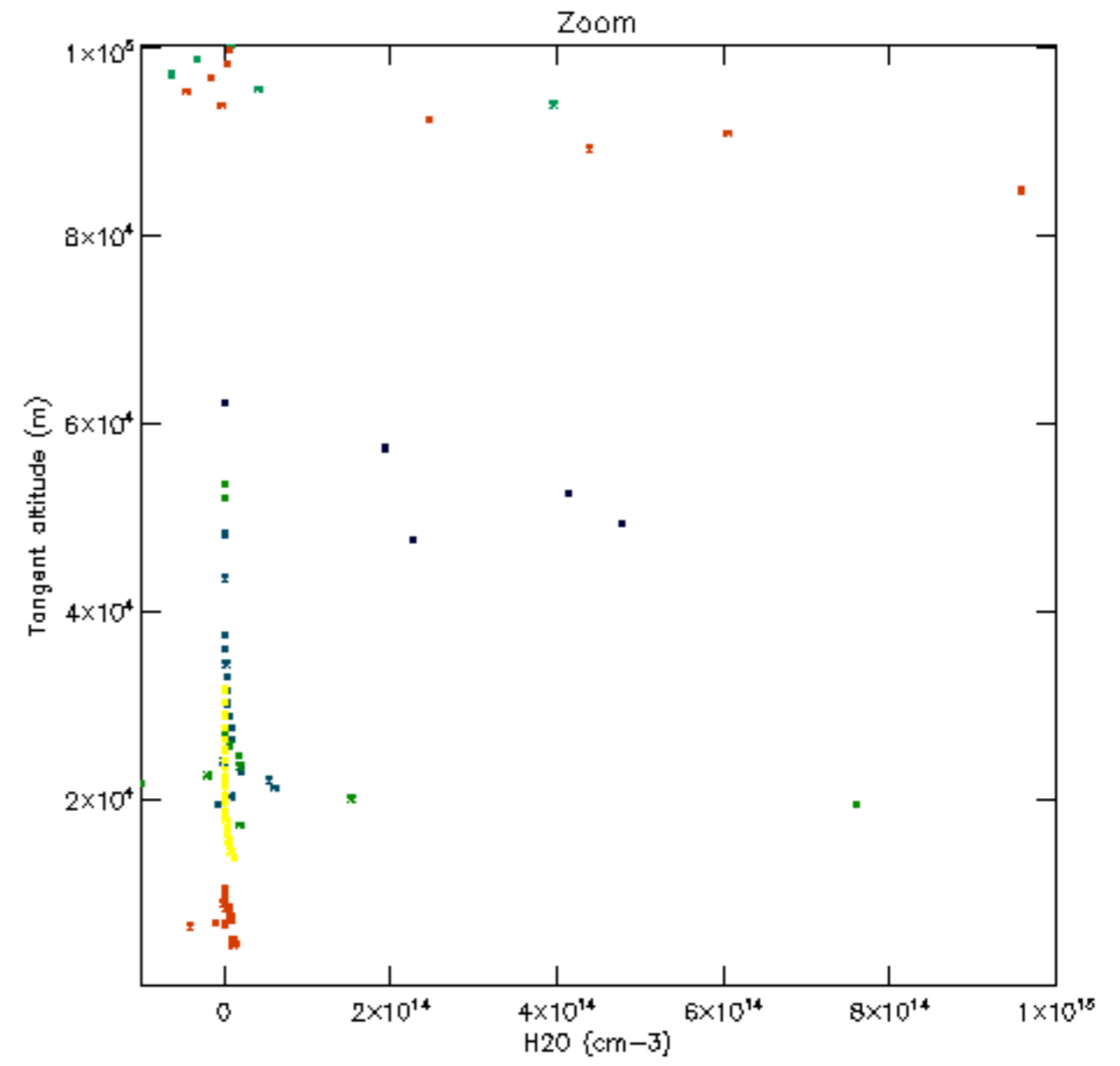
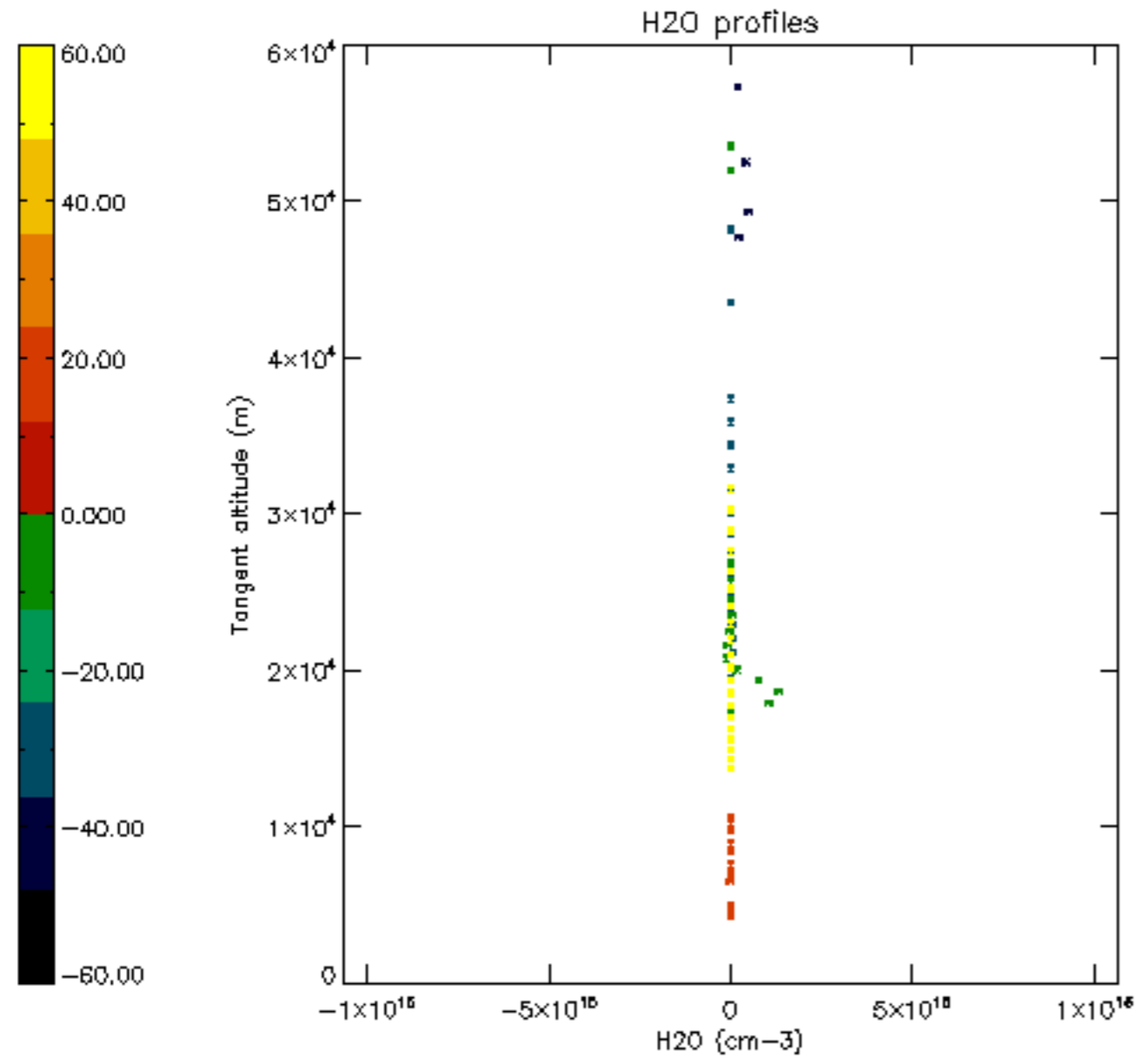


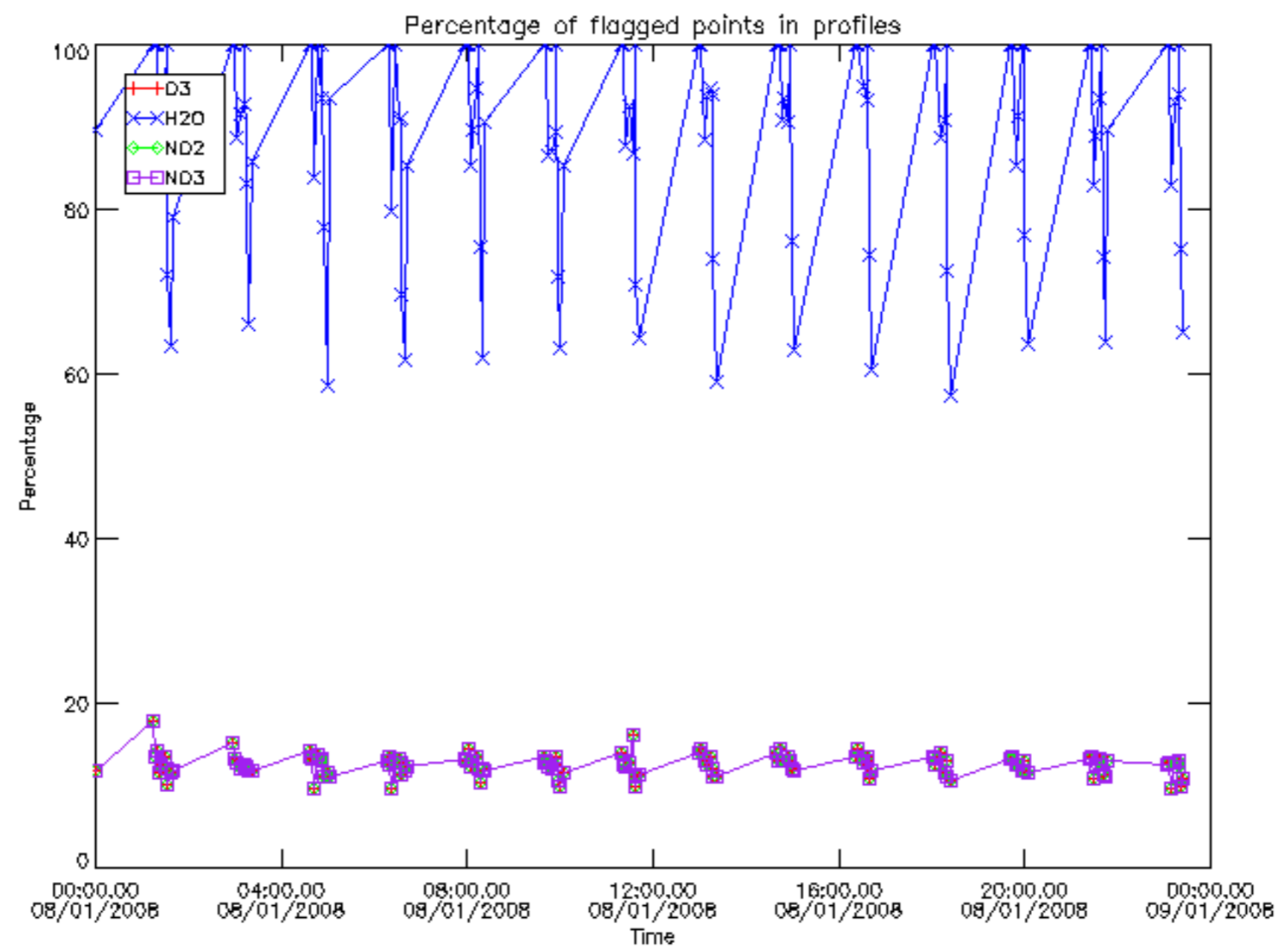




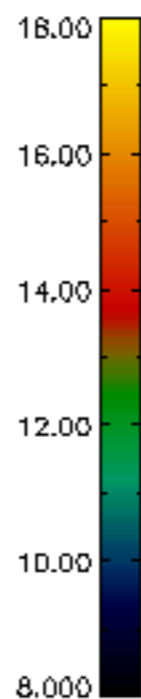
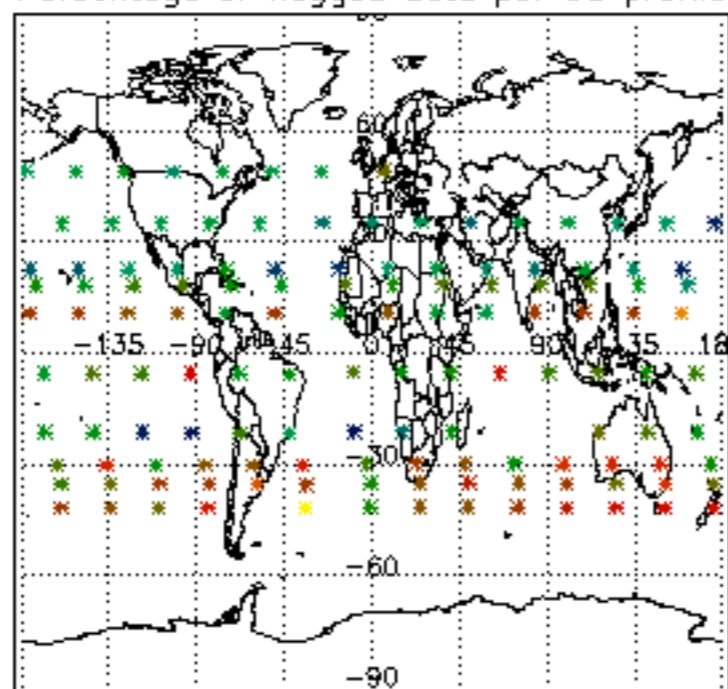




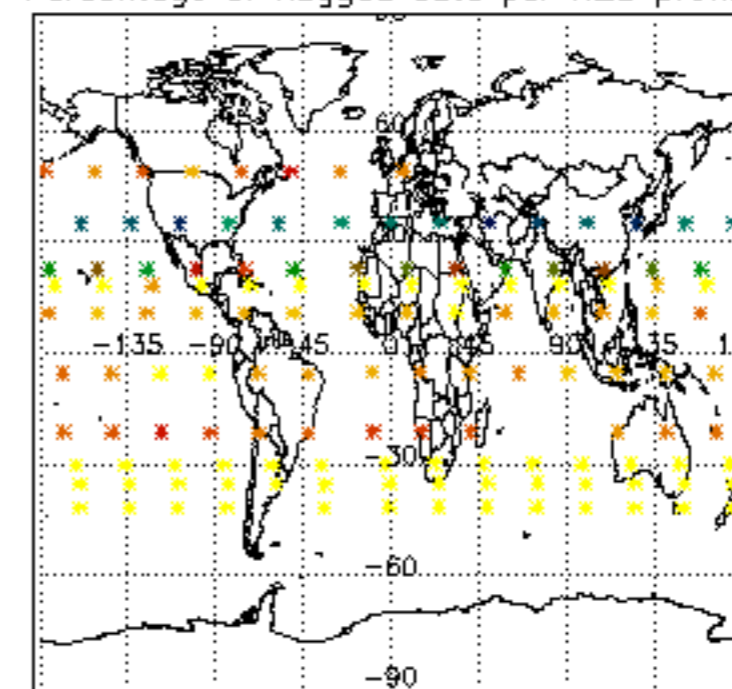




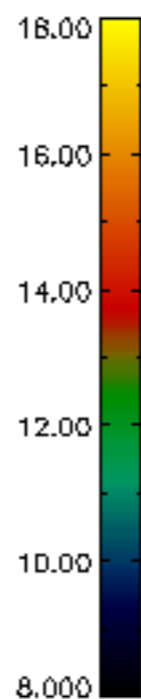
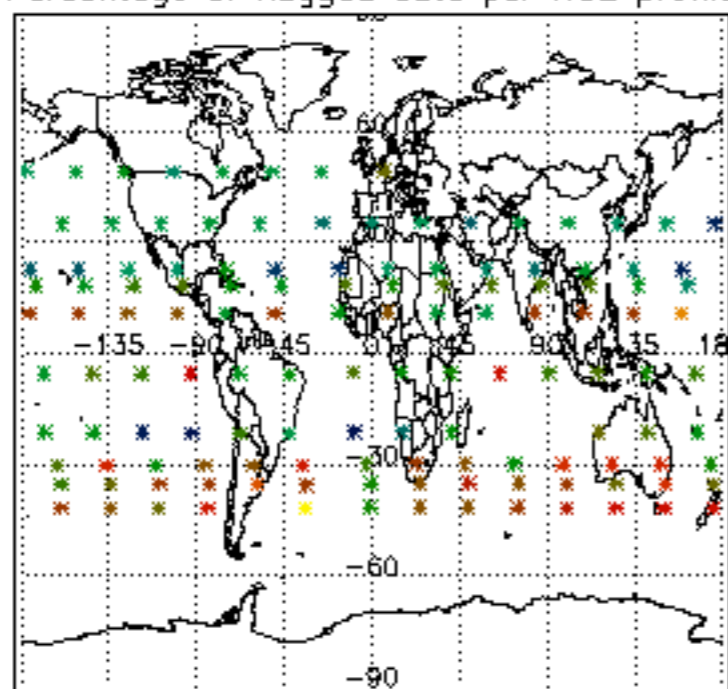
Percentage of flagged data per D3 profile



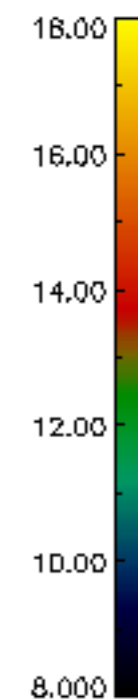
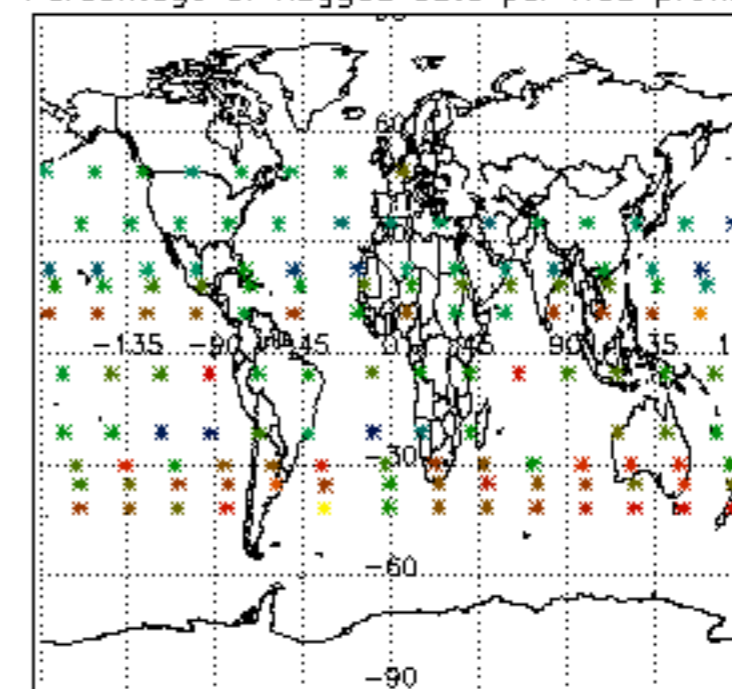
Percentage of flagged data per H2O profile

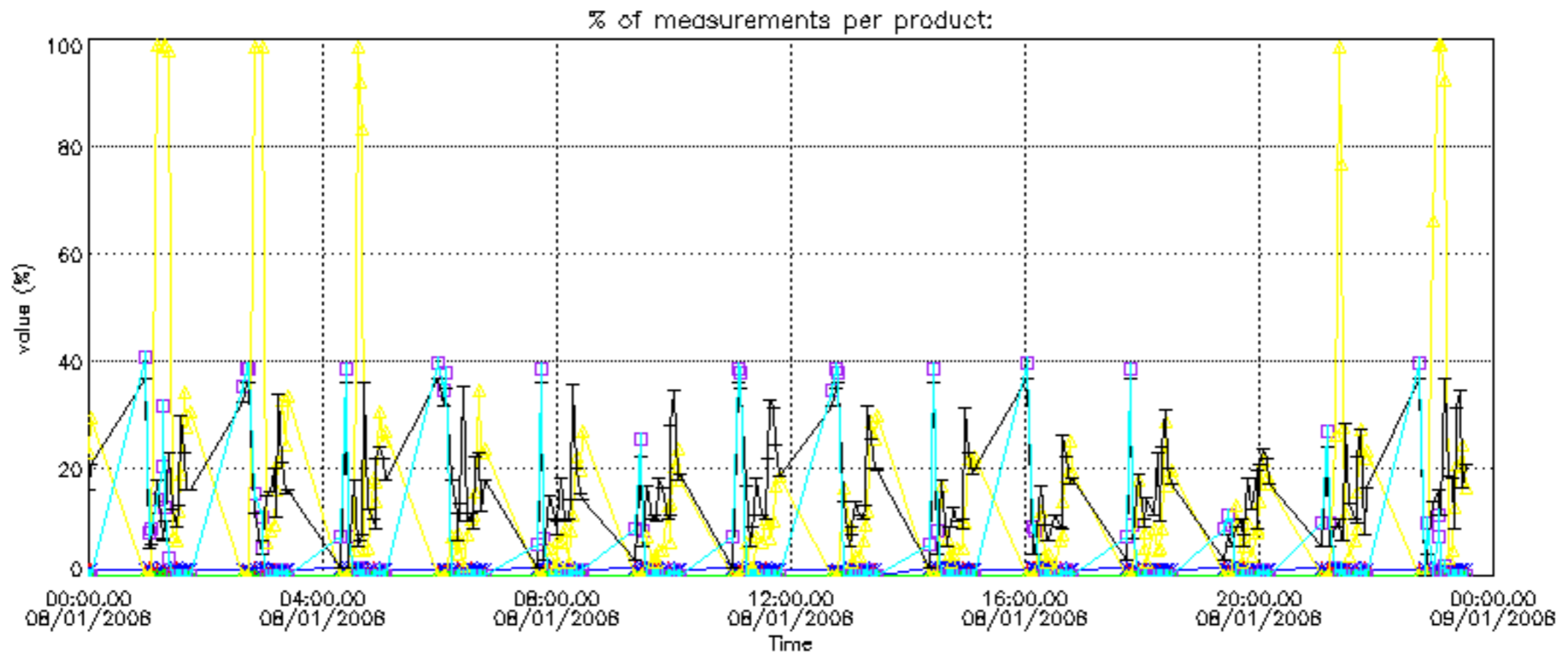


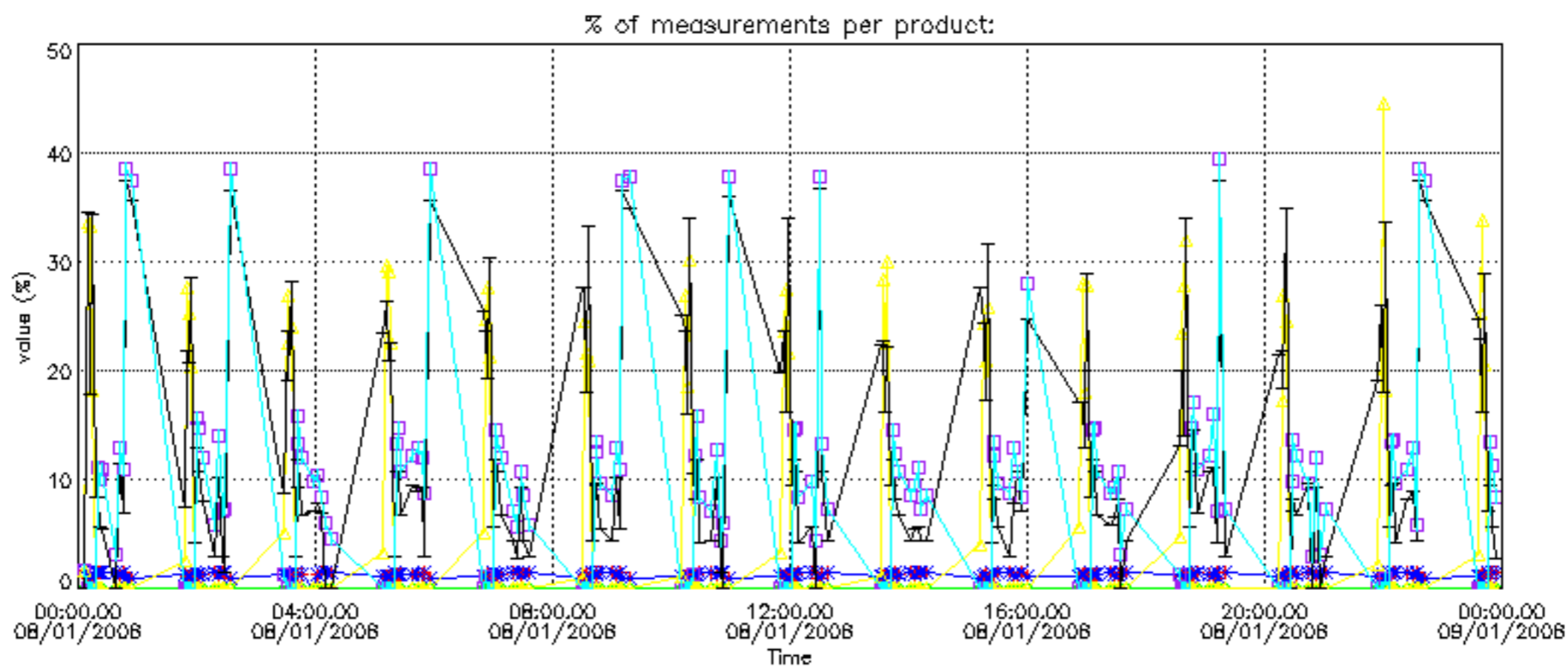
Percentage of flagged data per NO2 profile



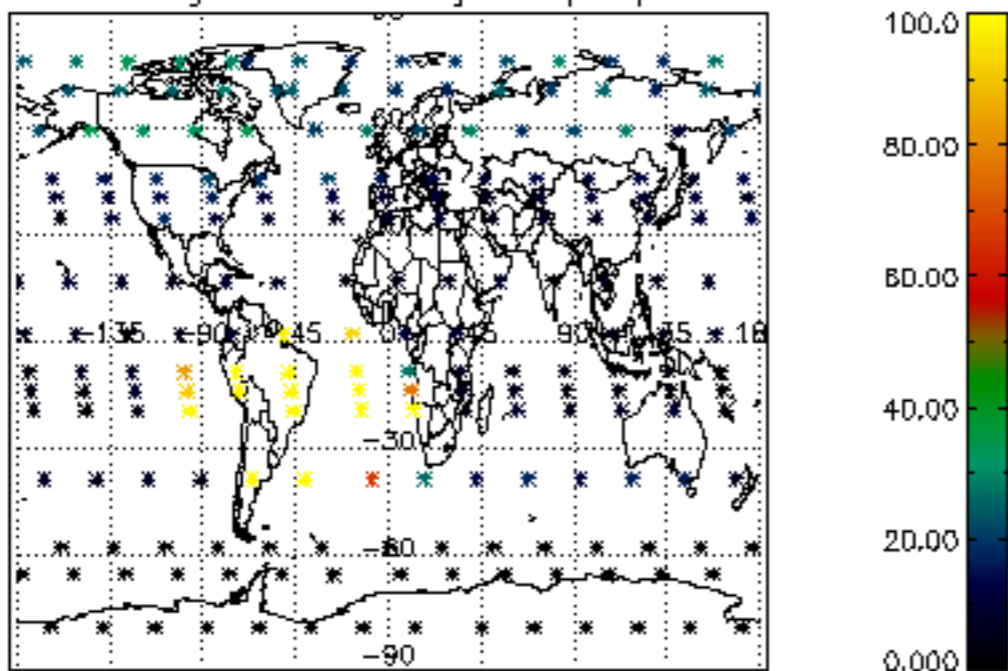
Percentage of flagged data per NO3 profile



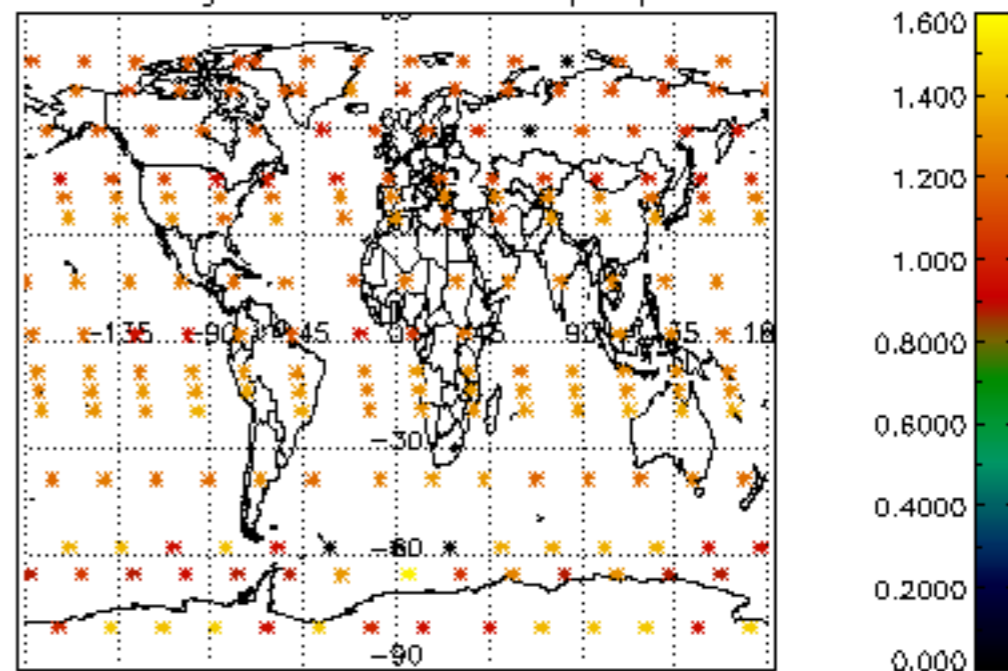




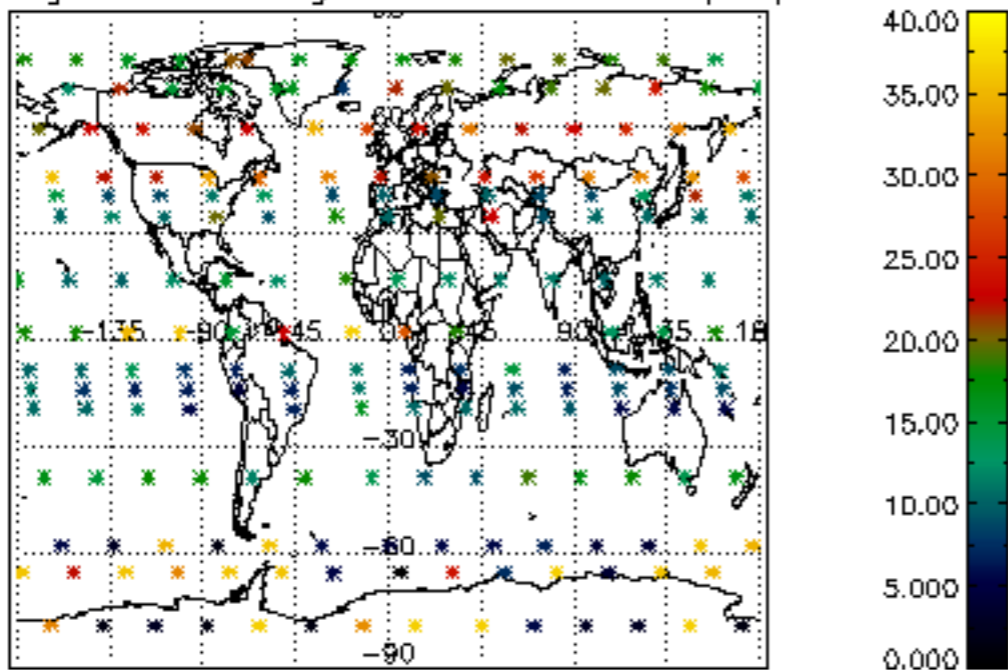
Percentage of cosmic ray hits per profile



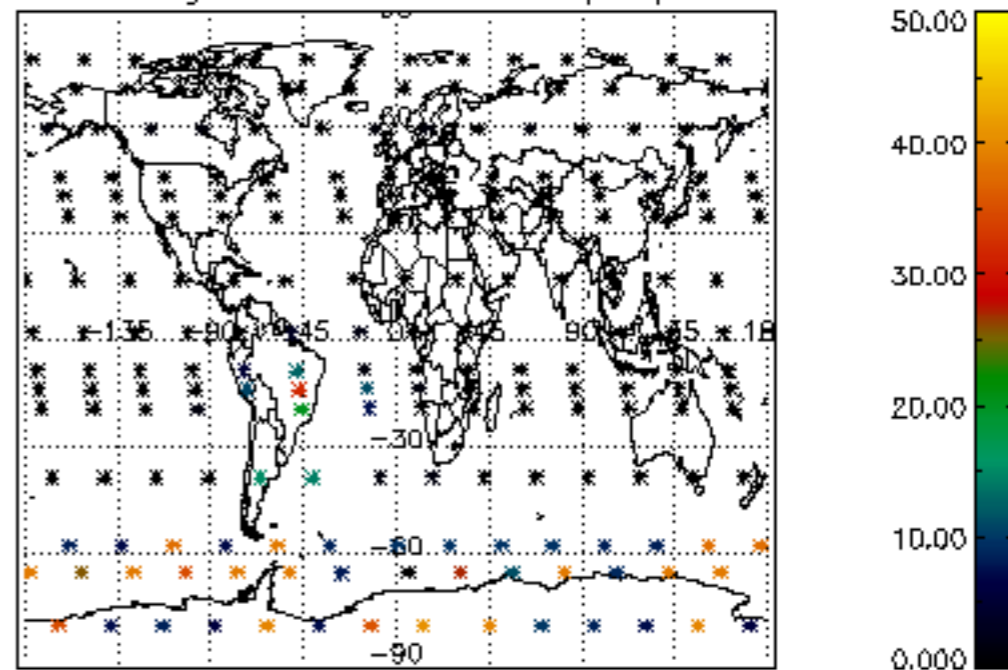
Percentage of datation errors per profile



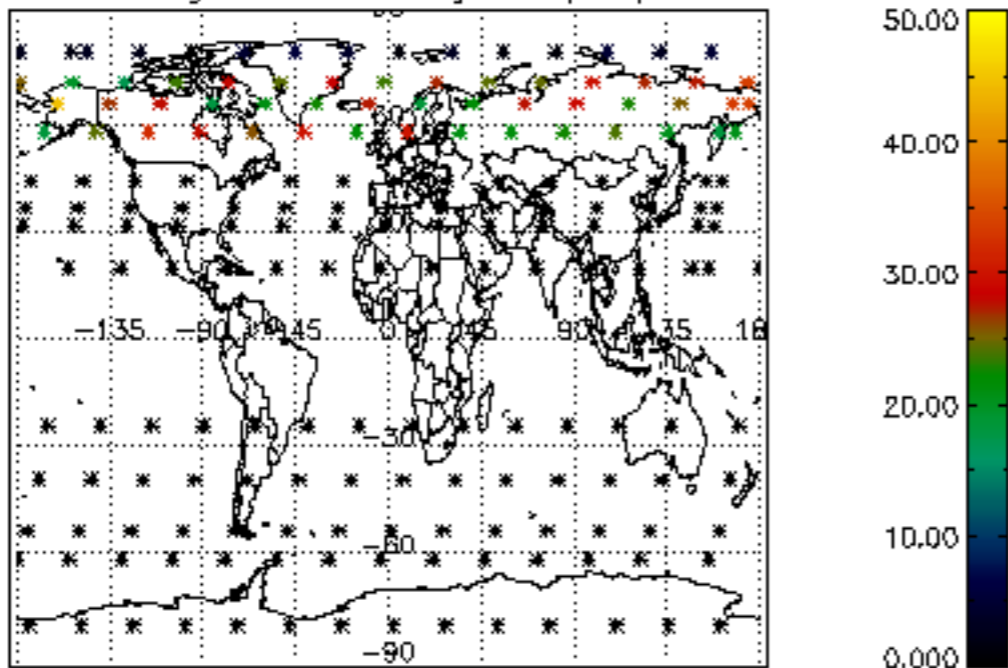
Percentage of star falling outside central band per profile



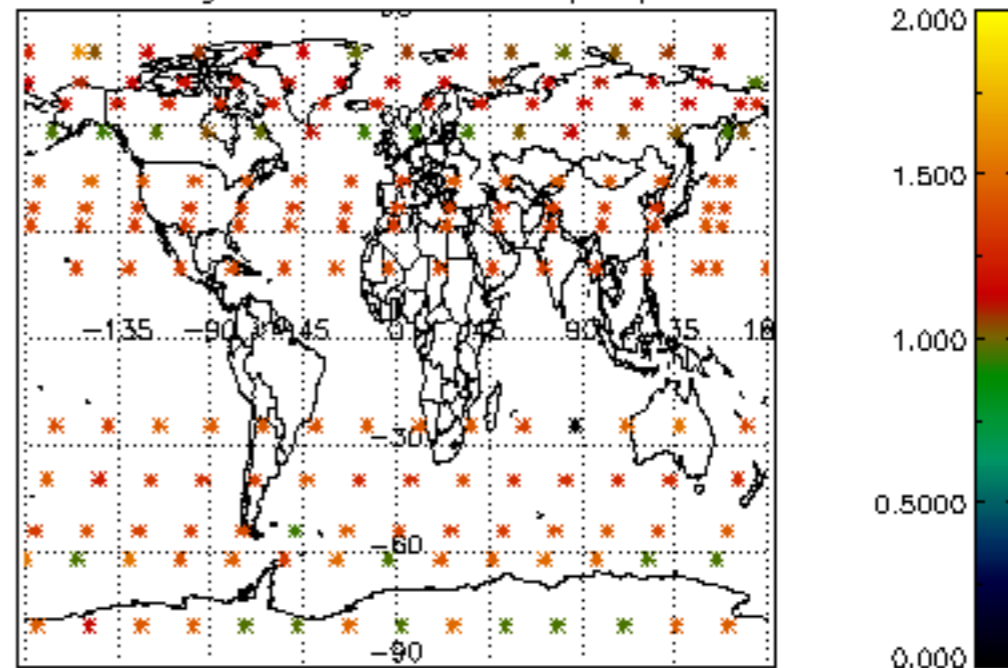
Percentage of saturation errors per profile



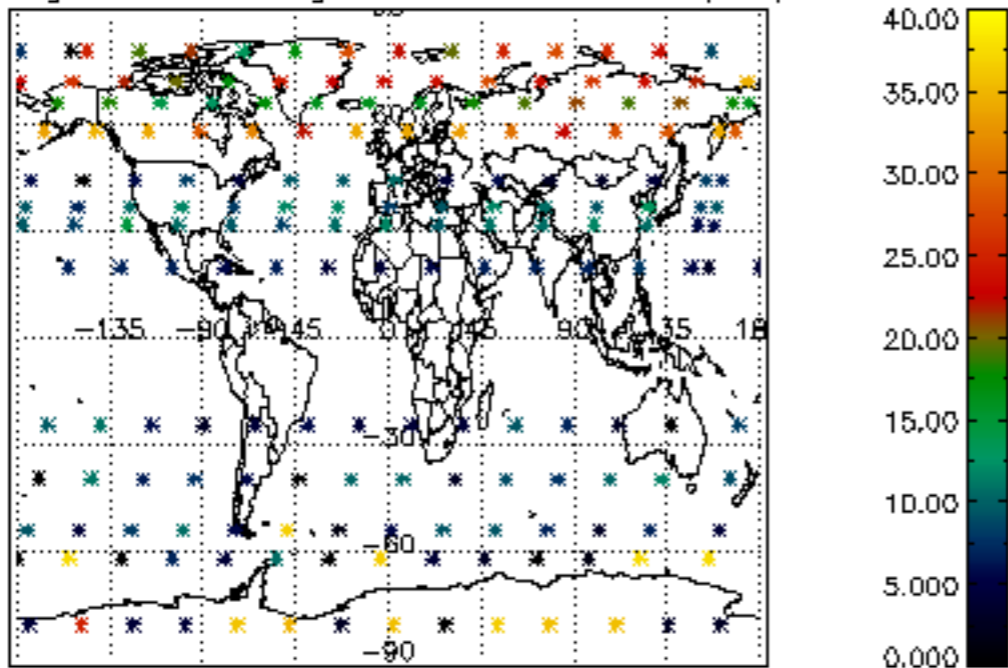
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

