

GOMOS Level 2 Daily Report

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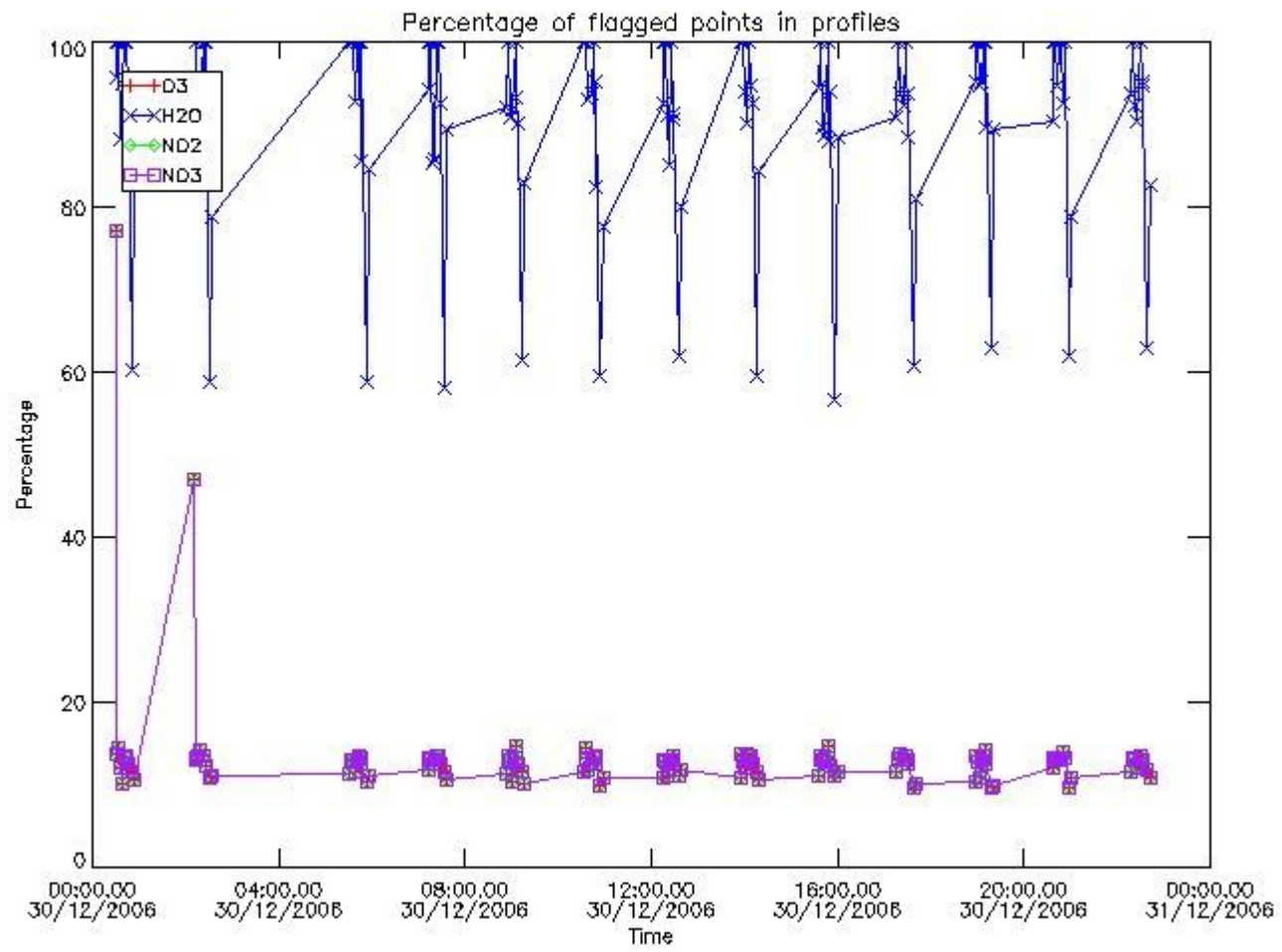
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338	GOM_NL__2PRFIN20061230_232408_000000372054_00173_25277_2597.N1	30-DEC-2006 23:24:08	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	25277	No
339	GOM_NL__2PRFIN20061230_232757_000000342054_00173_25277_2598.N1	30-DEC-2006 23:27:57	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	25277	No
340	GOM_NL__2PRFIN20061230_233818_000000512054_00173_25277_2599.N1	30-DEC-2006 23:38:18	Bright	51.000	67	5Alp CrB	2.2210	11000.	102	25277	No
341	GOM_NL__2PRFIN20061230_234401_000000352054_00173_25277_2600.N1	30-DEC-2006 23:44:01	Bright	35.000	102	24Alp Ser	2.6000	4250.0	70	25277	No
342	GOM_NL__2PRFIN20061230_234902_000000362054_00173_25277_2601.N1	30-DEC-2006 23:49:02	Bright	36.000	104	27Bet Lib	2.6140	13100.	72	25277	No

3. Quality information per product

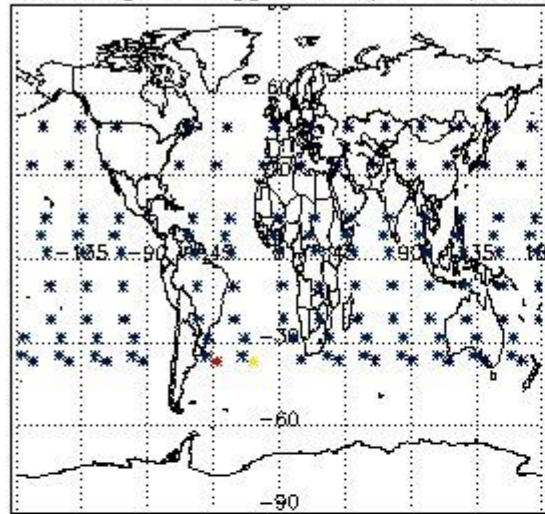
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

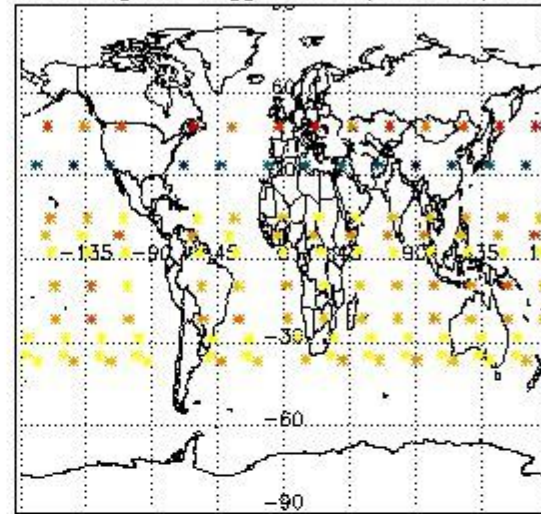


3.2 Plot quality information per product (world map)

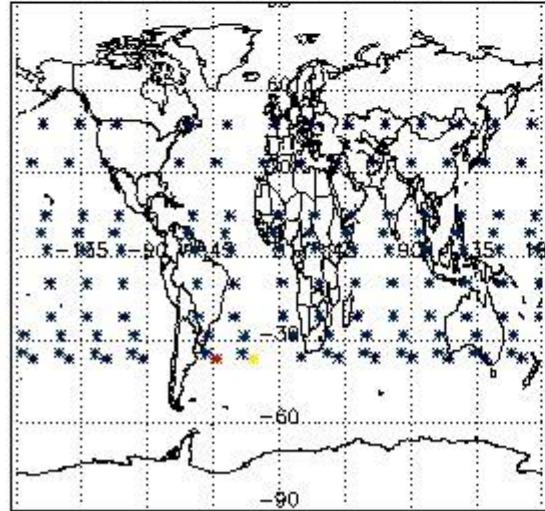
Percentage of flagged data per O3 profile



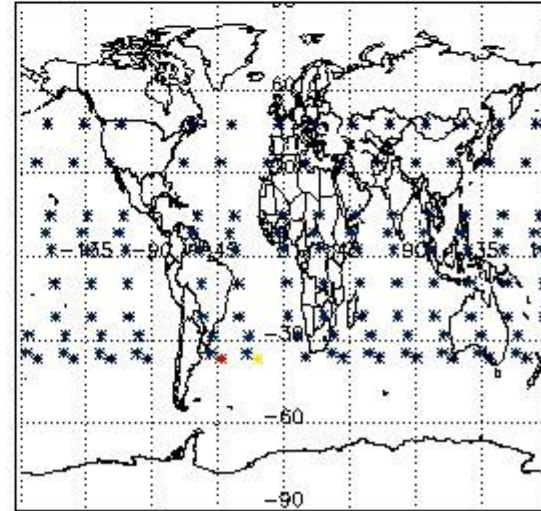
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

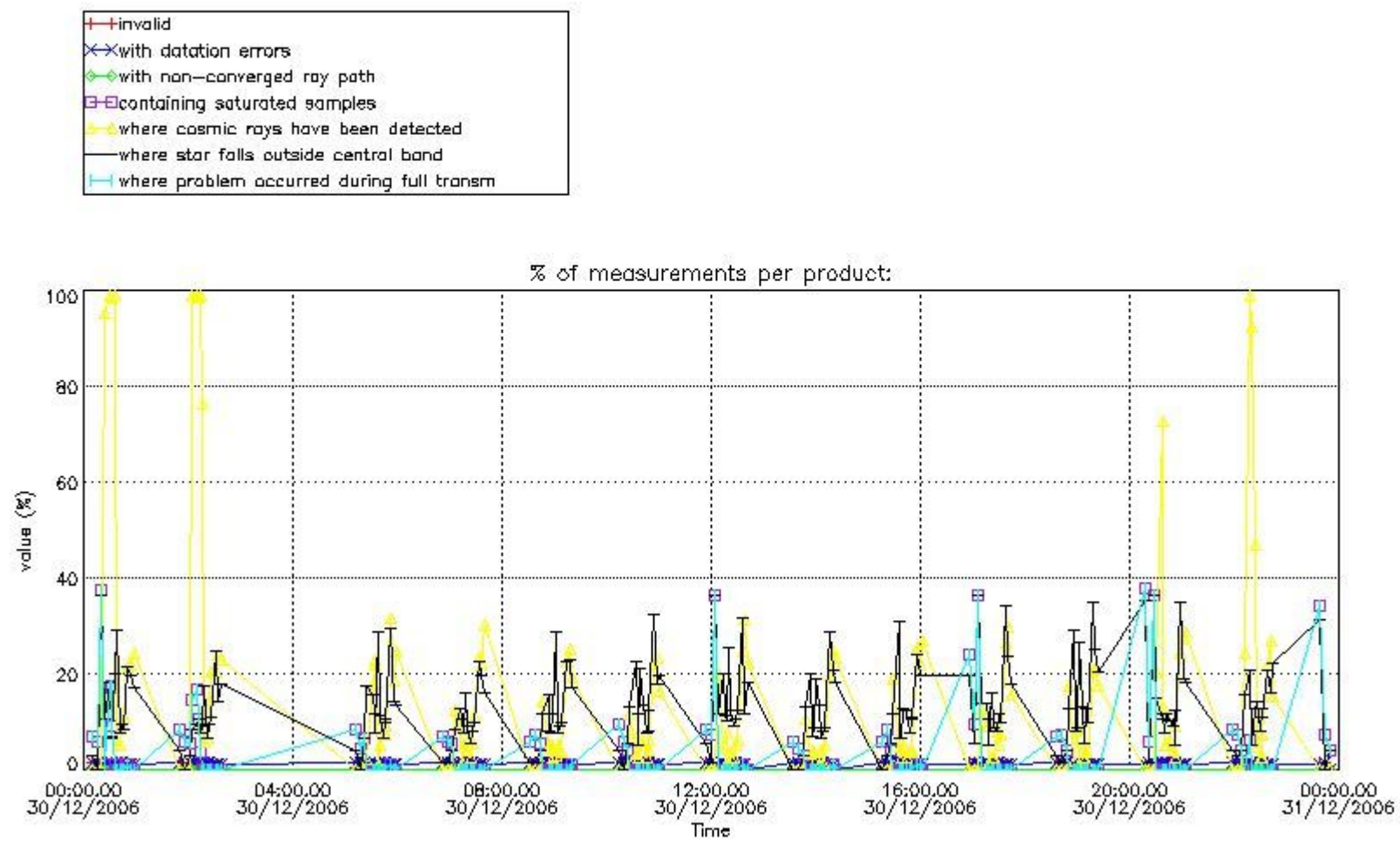


4. Level 1 quality information per product

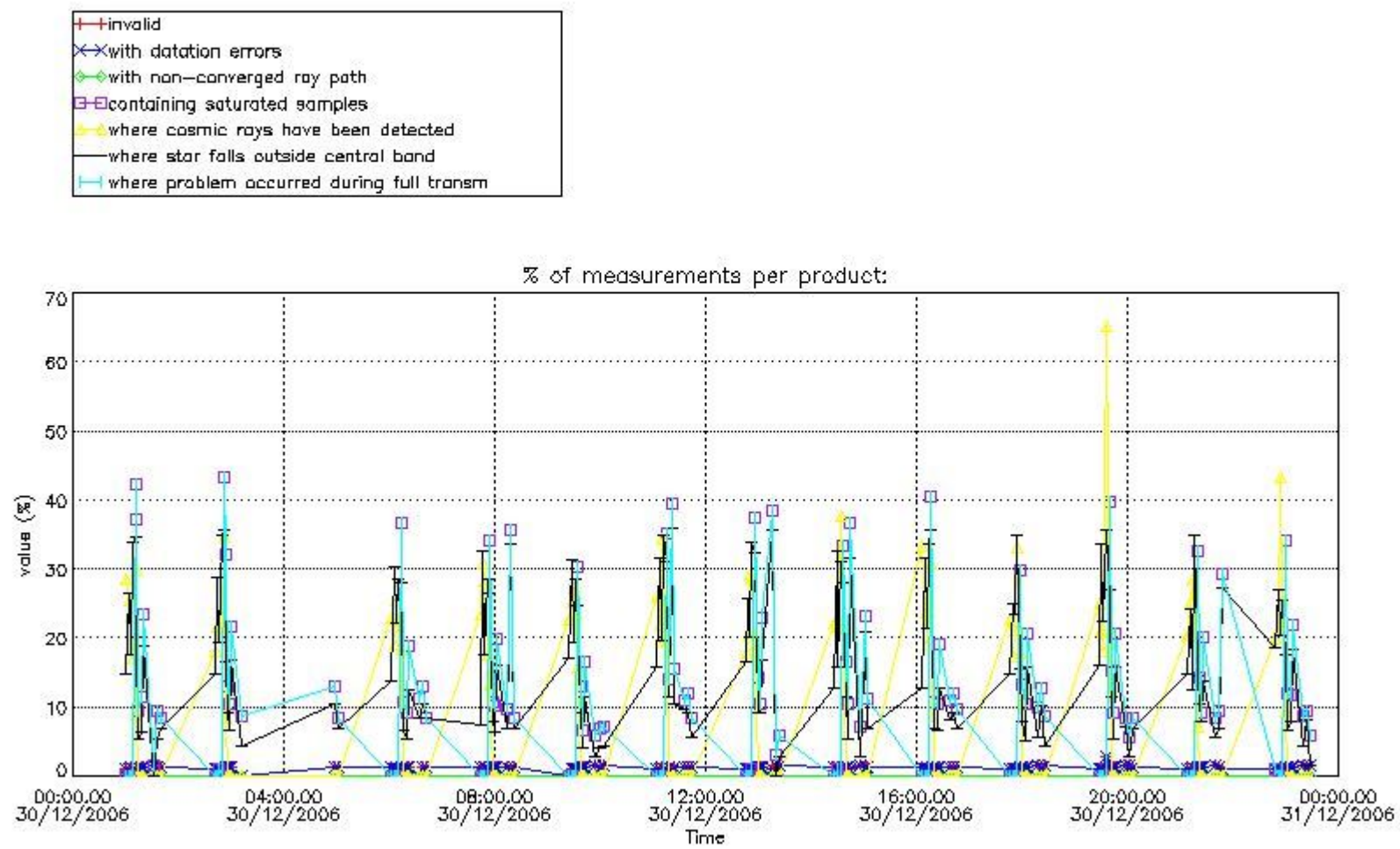
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

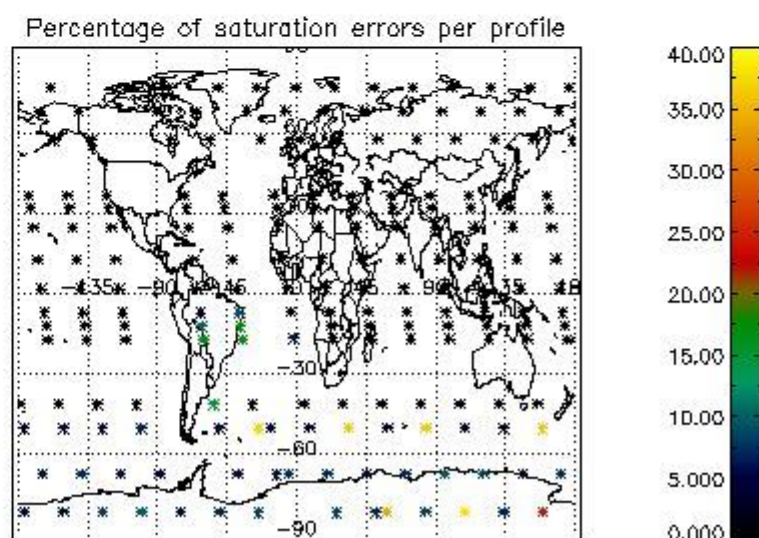
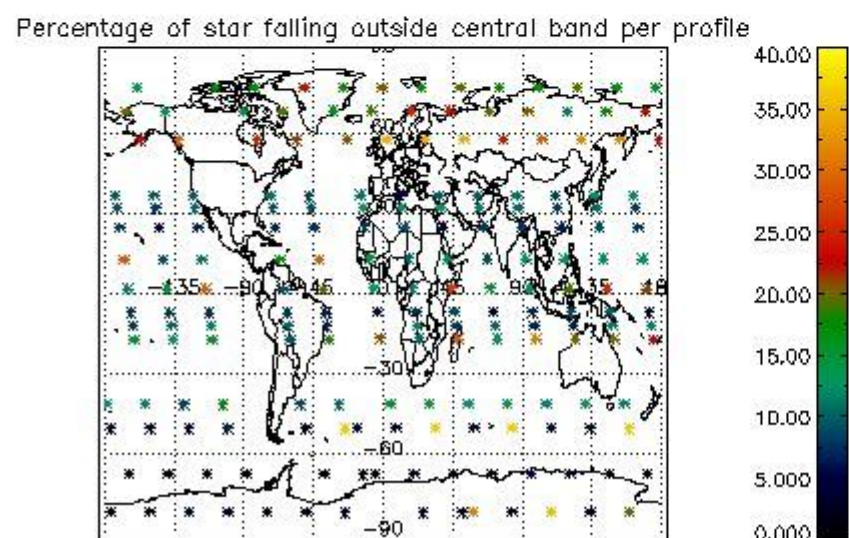
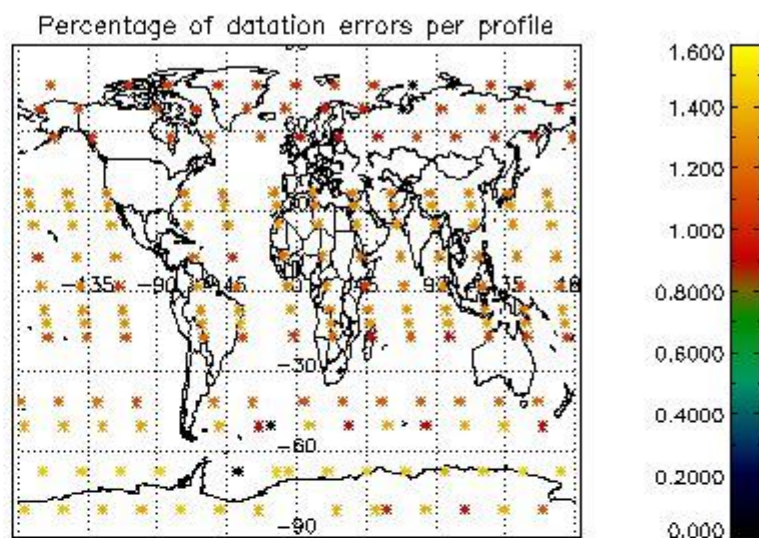
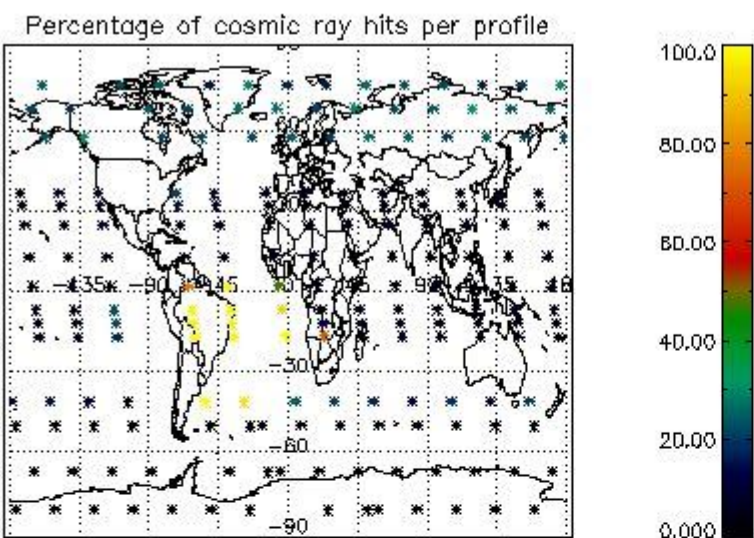


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

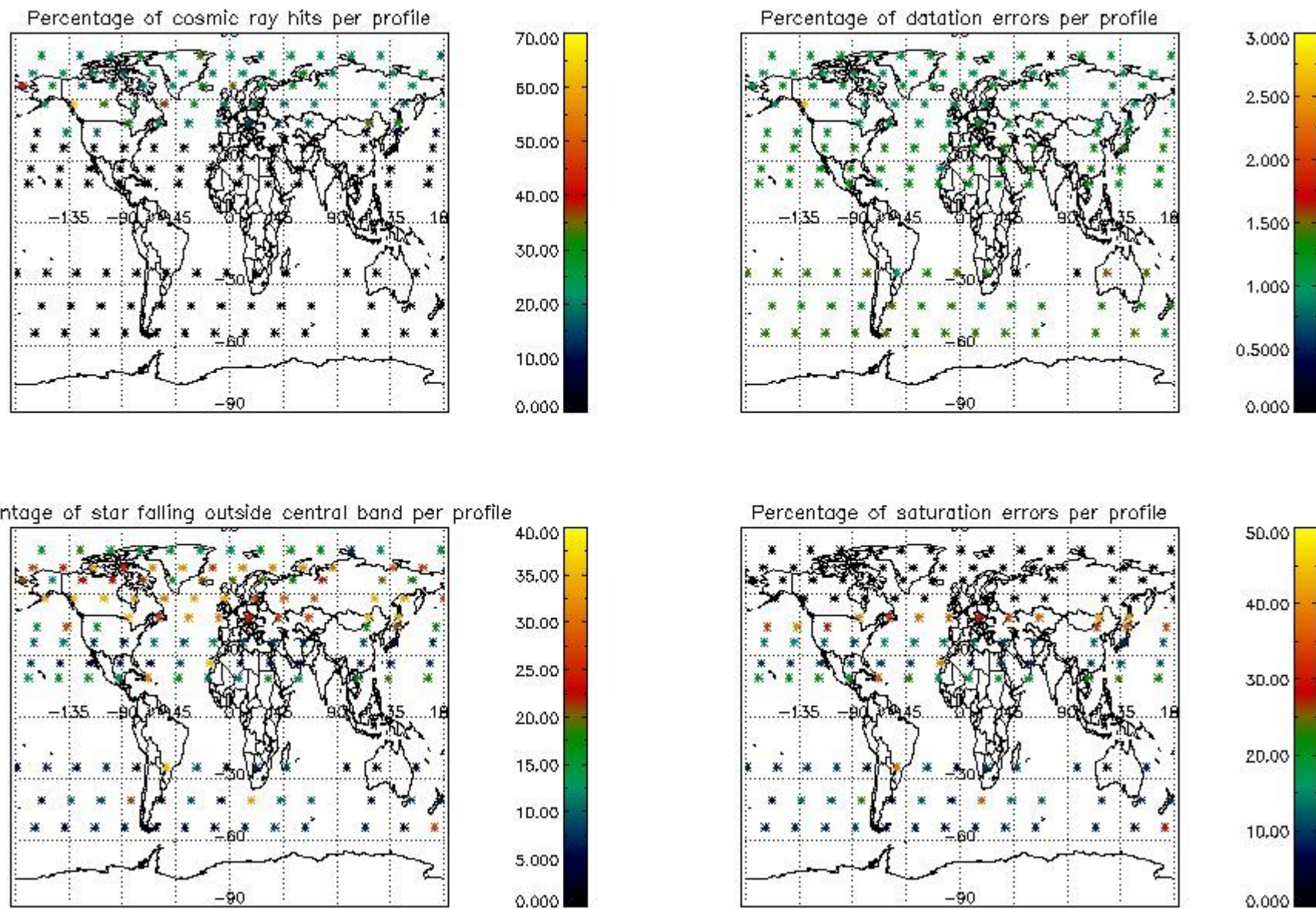


4.2 Plot quality information per product coming from level 1b processing (world map)

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

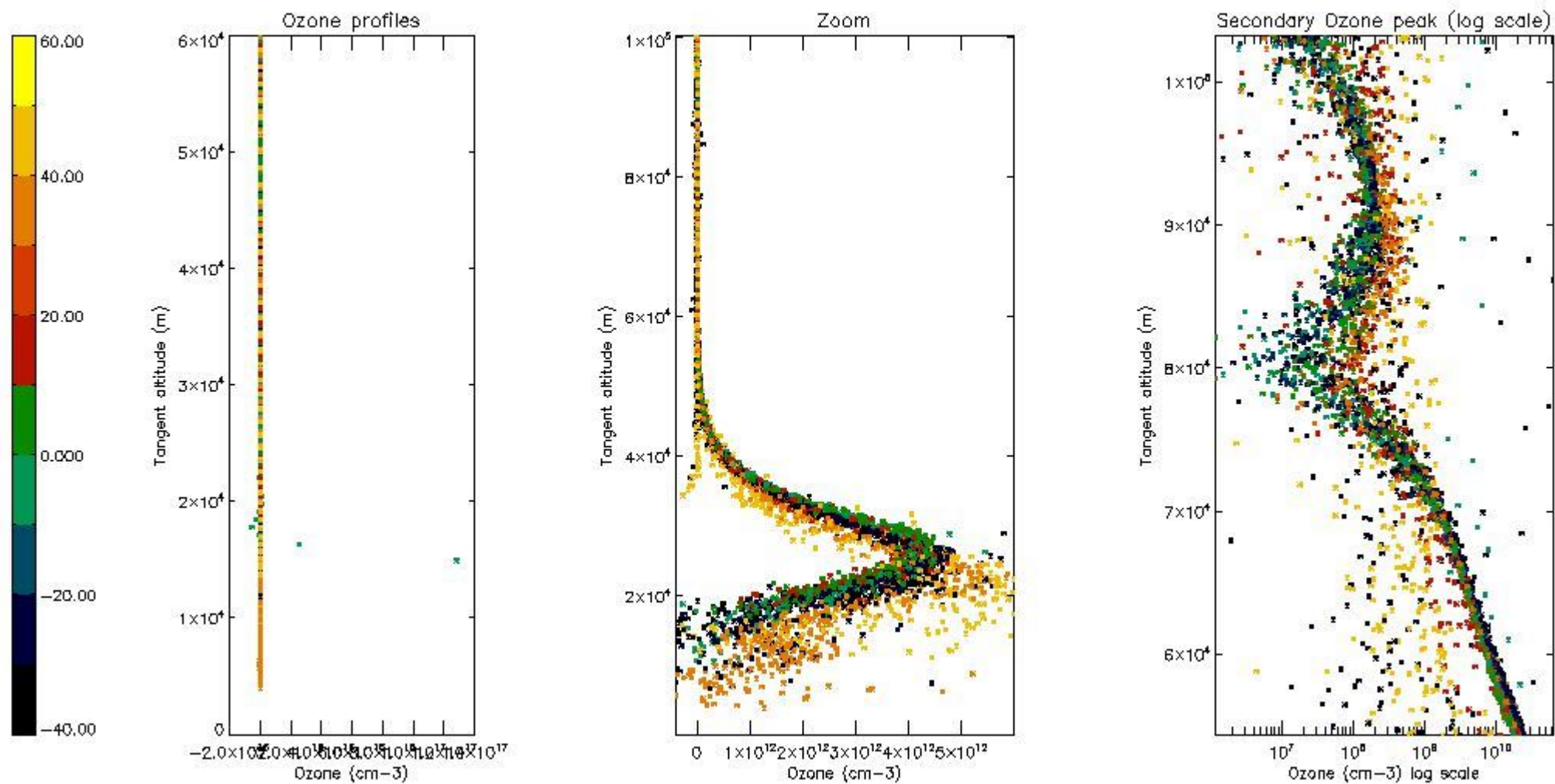
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	21

STD < 10	17
STD < 5	11

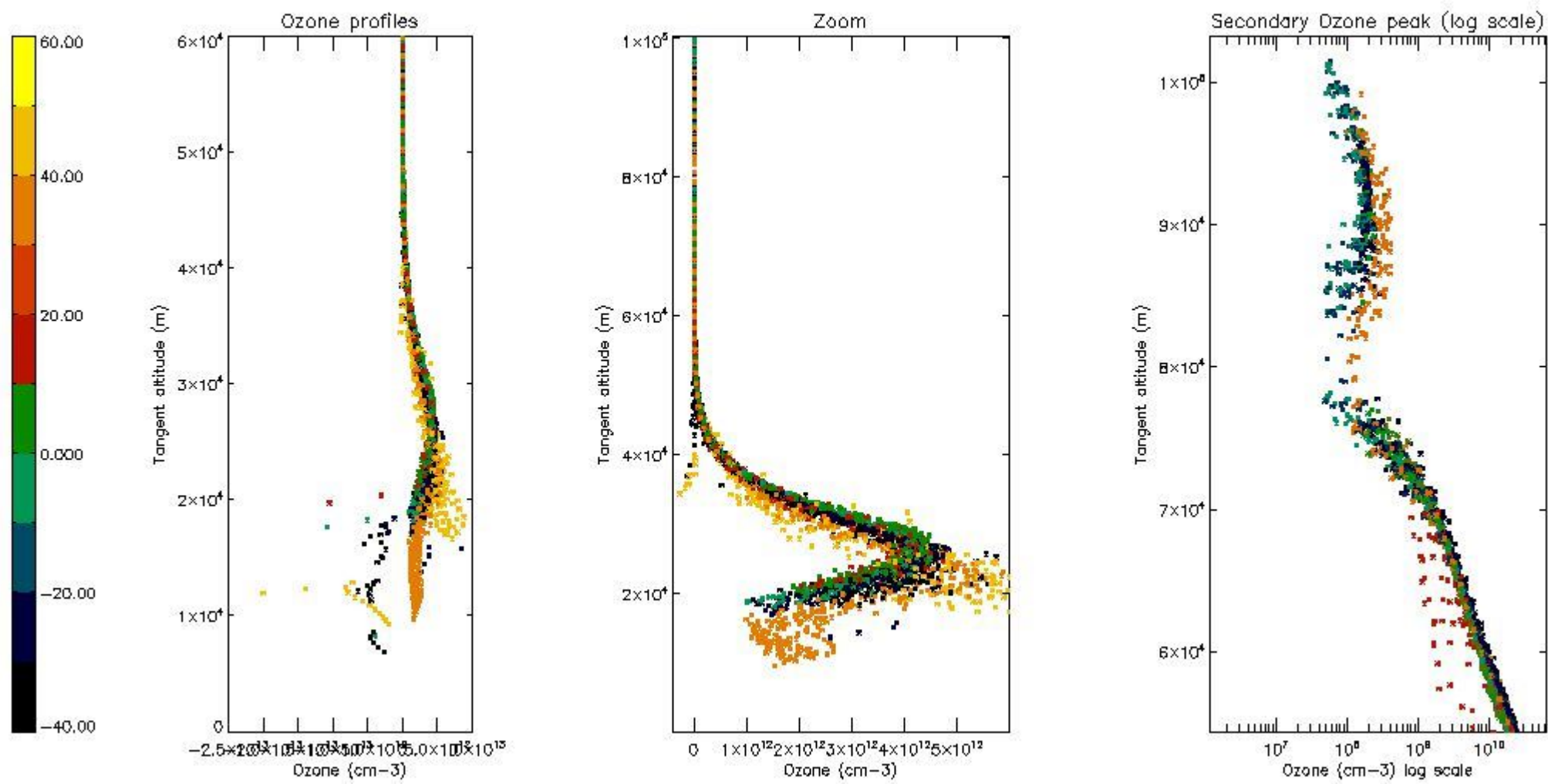
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



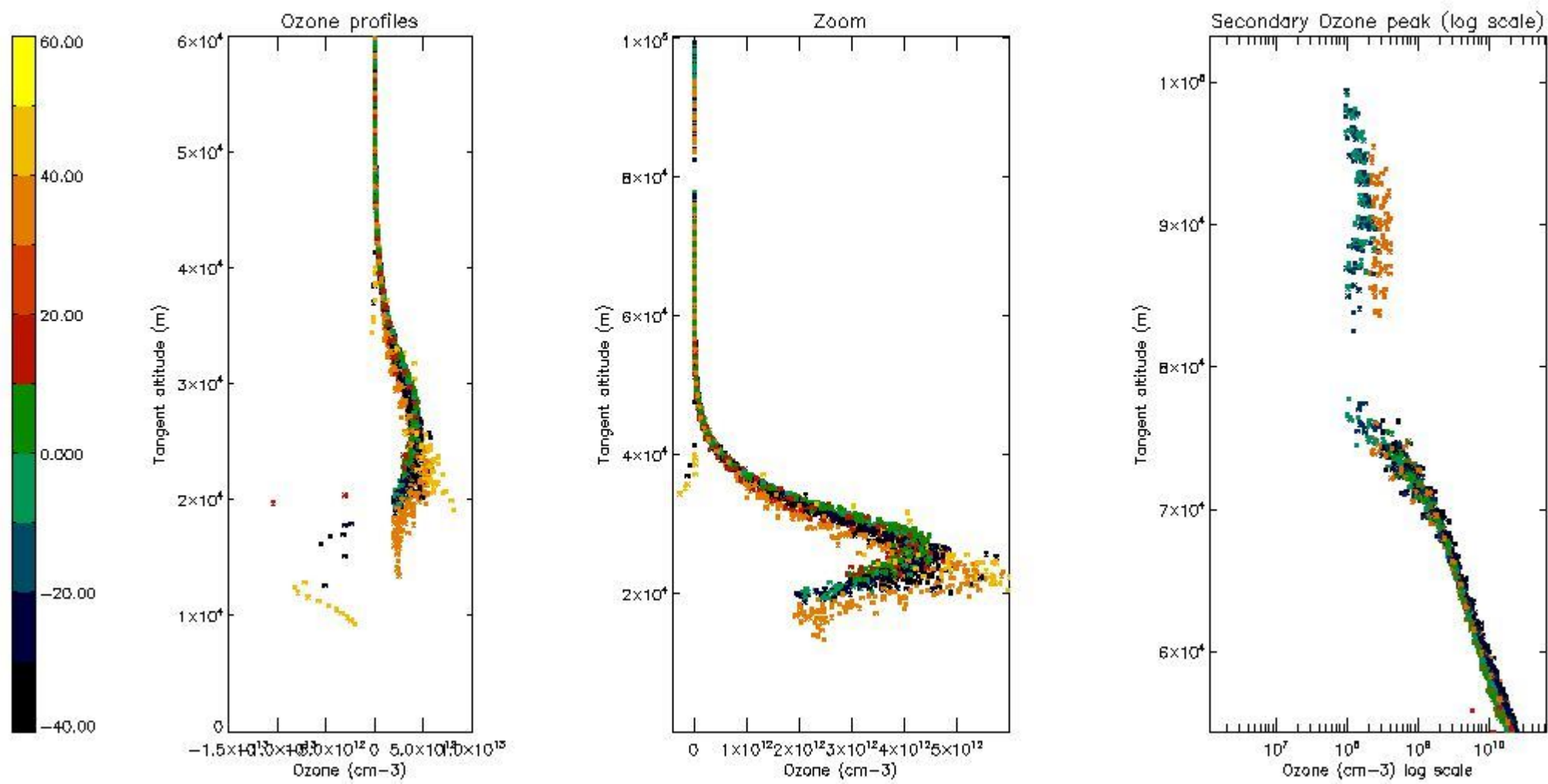
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



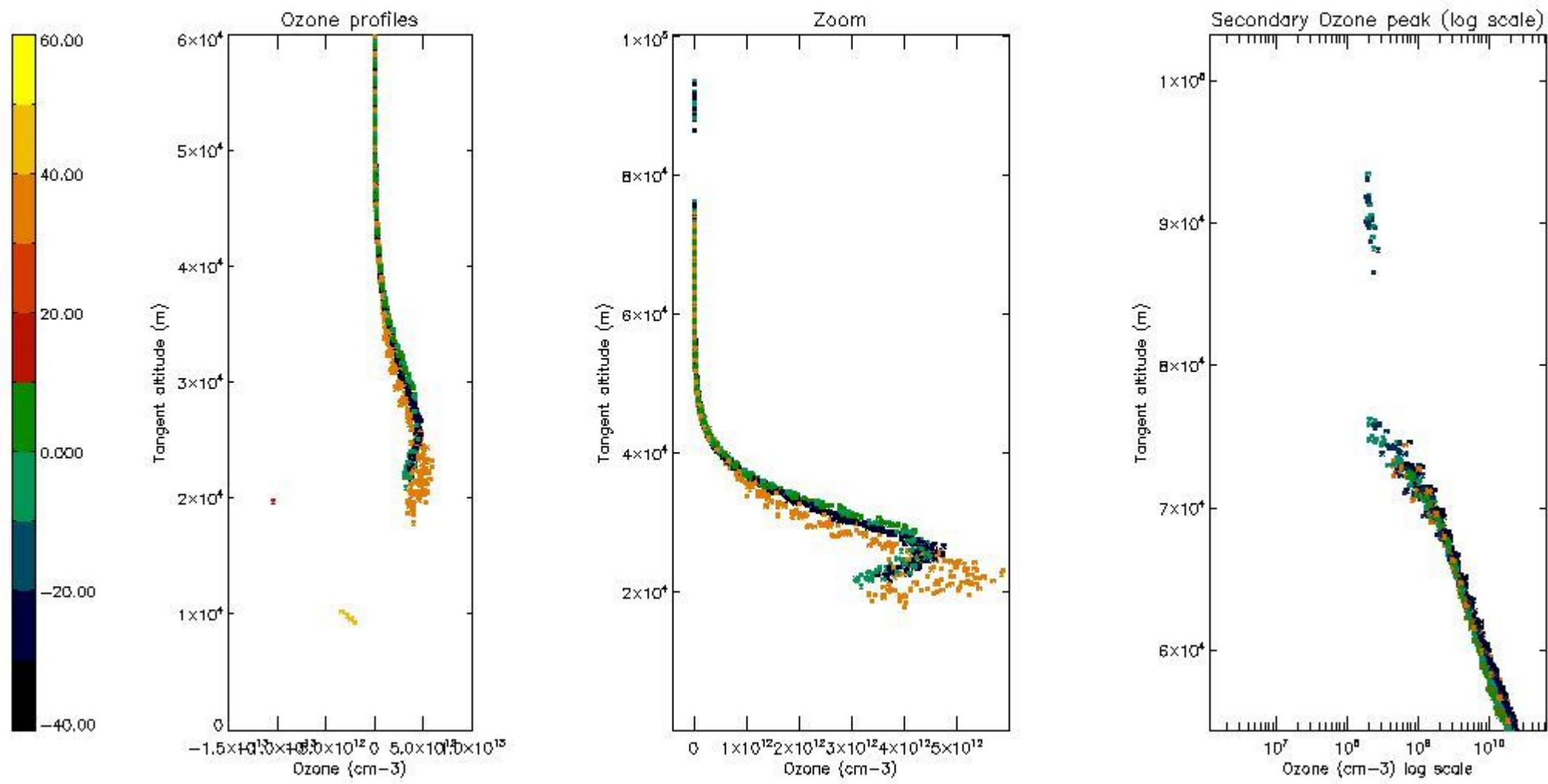
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



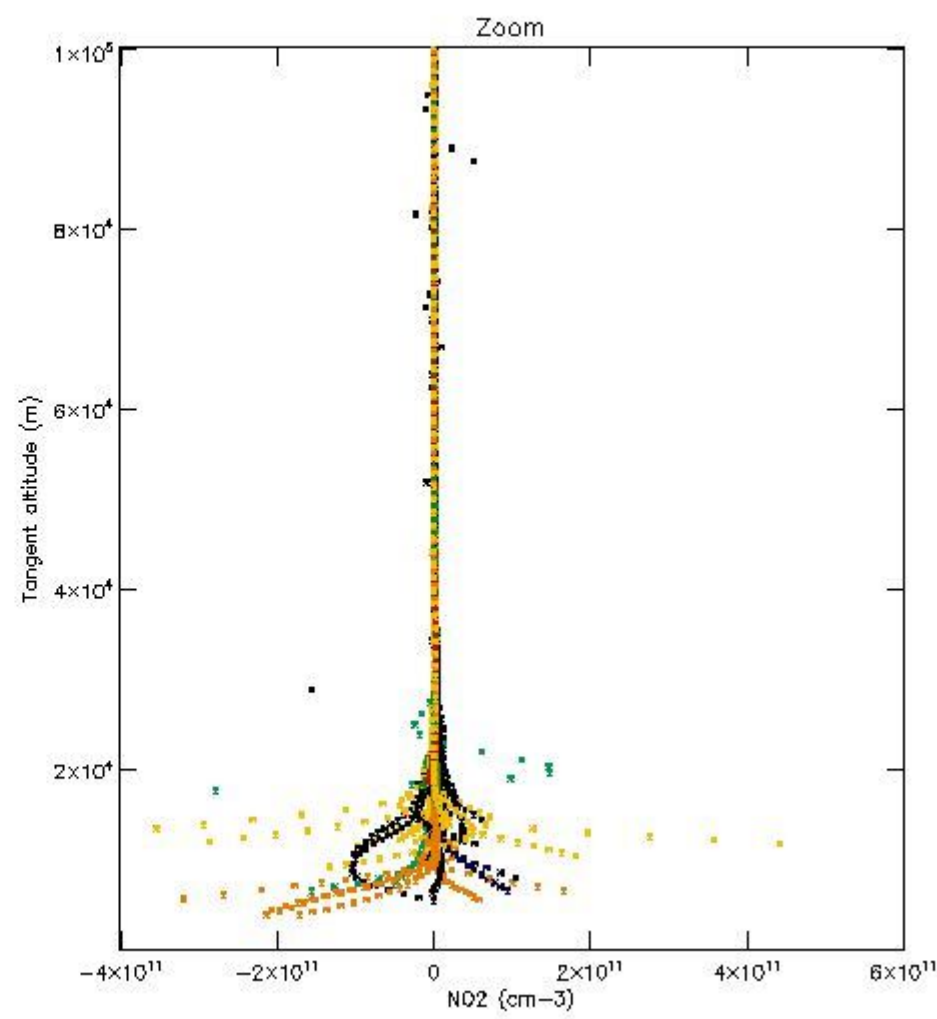
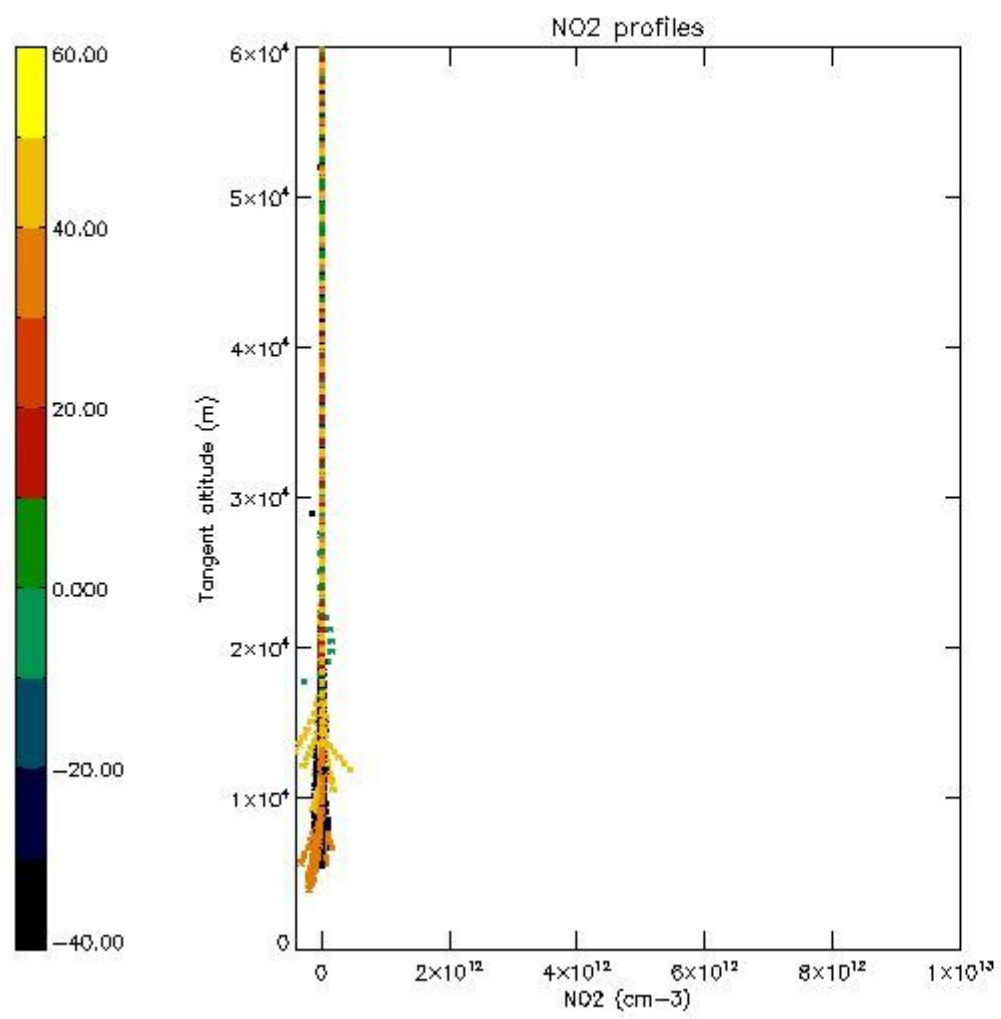
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



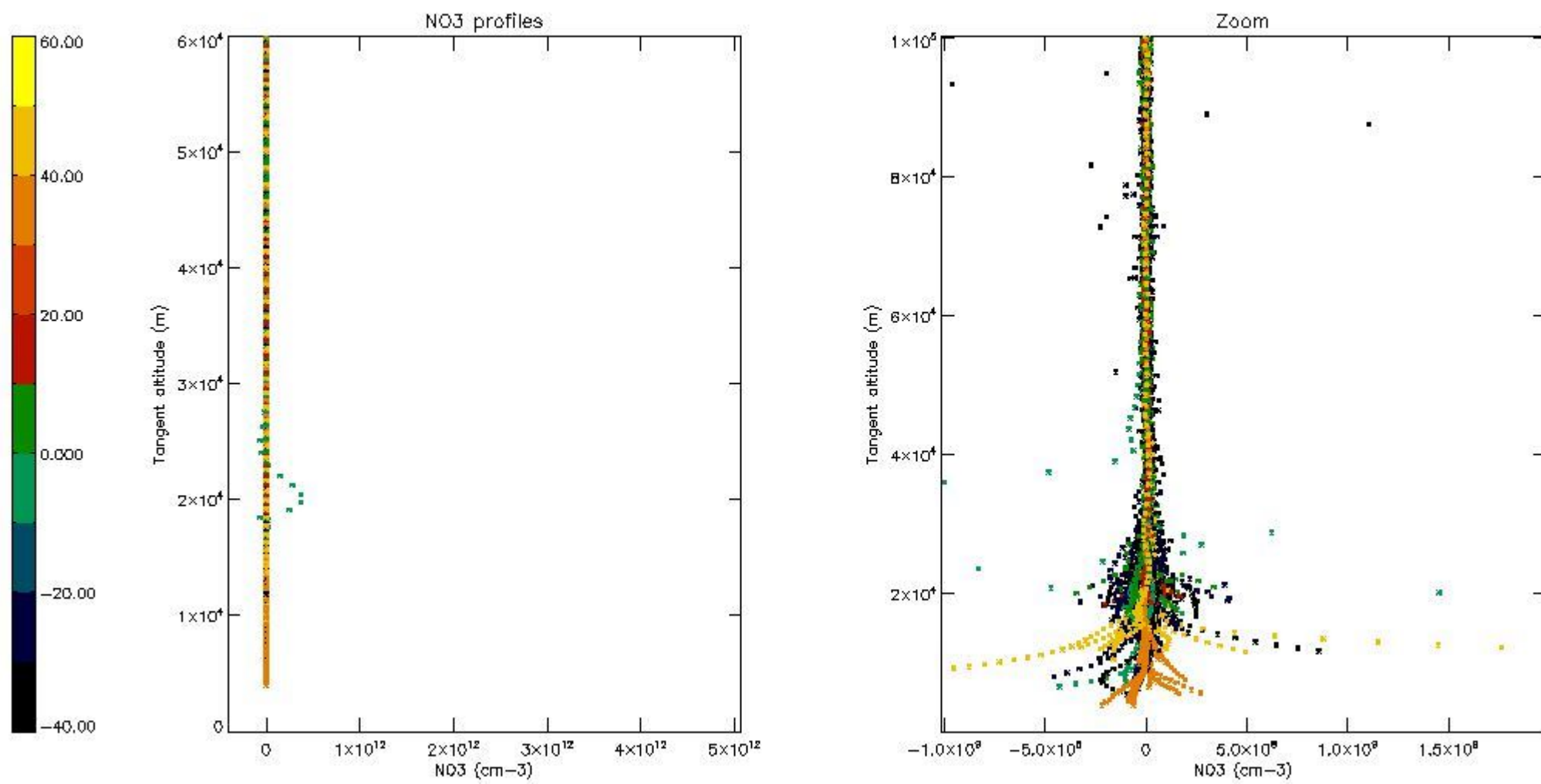
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



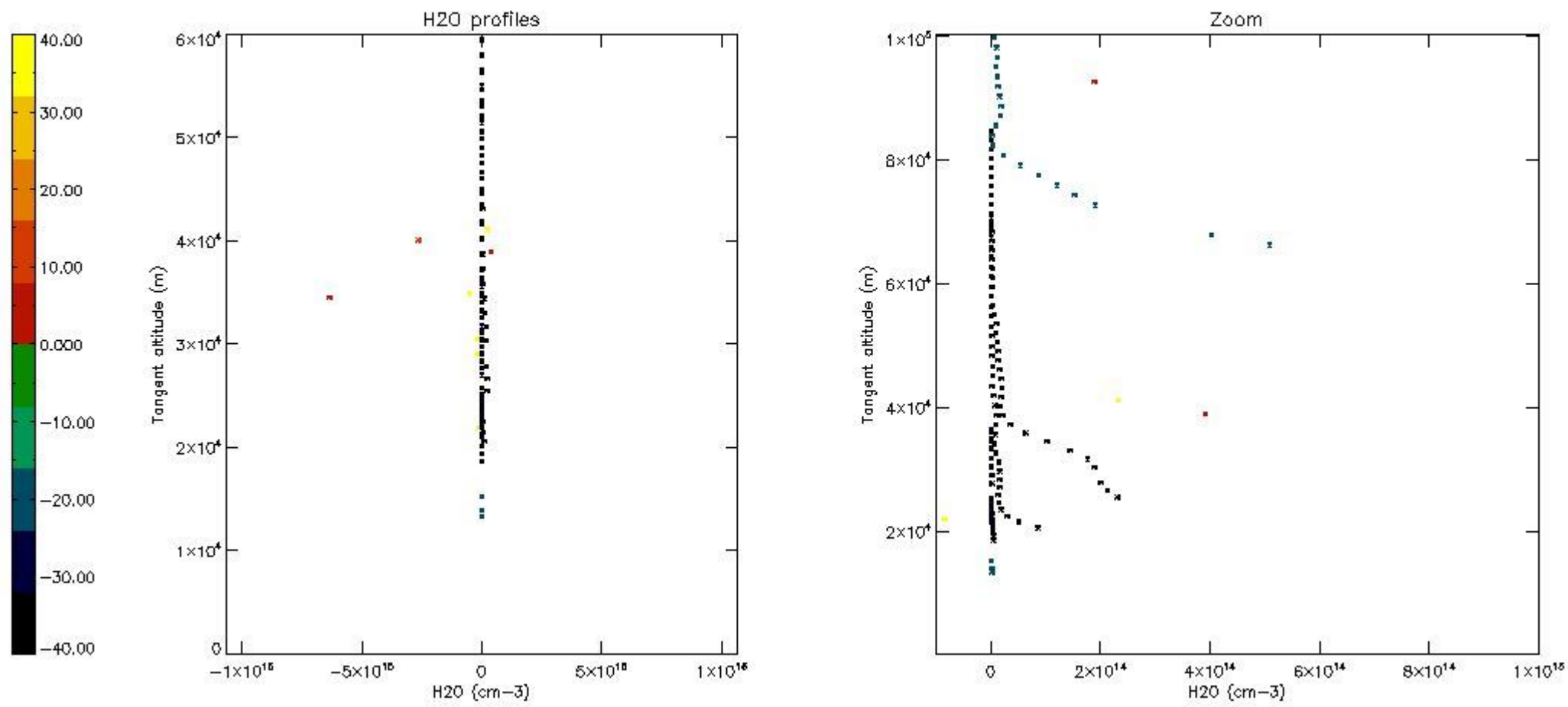
5.7 Plot NO3 profiles for all STD (dark without errors)

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	30-DEC-2006 00:09:53
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	30-DEC-2006 00:09:53
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	30-DEC-2006 00:09:53

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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	24APR2013 07:09:39
Data source version	GOMOS/6.01
Start time of products	30-12-2006 (30DEC2006 00:00:00)
Stop time of products	31-12-2006 (31DEC2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	342
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

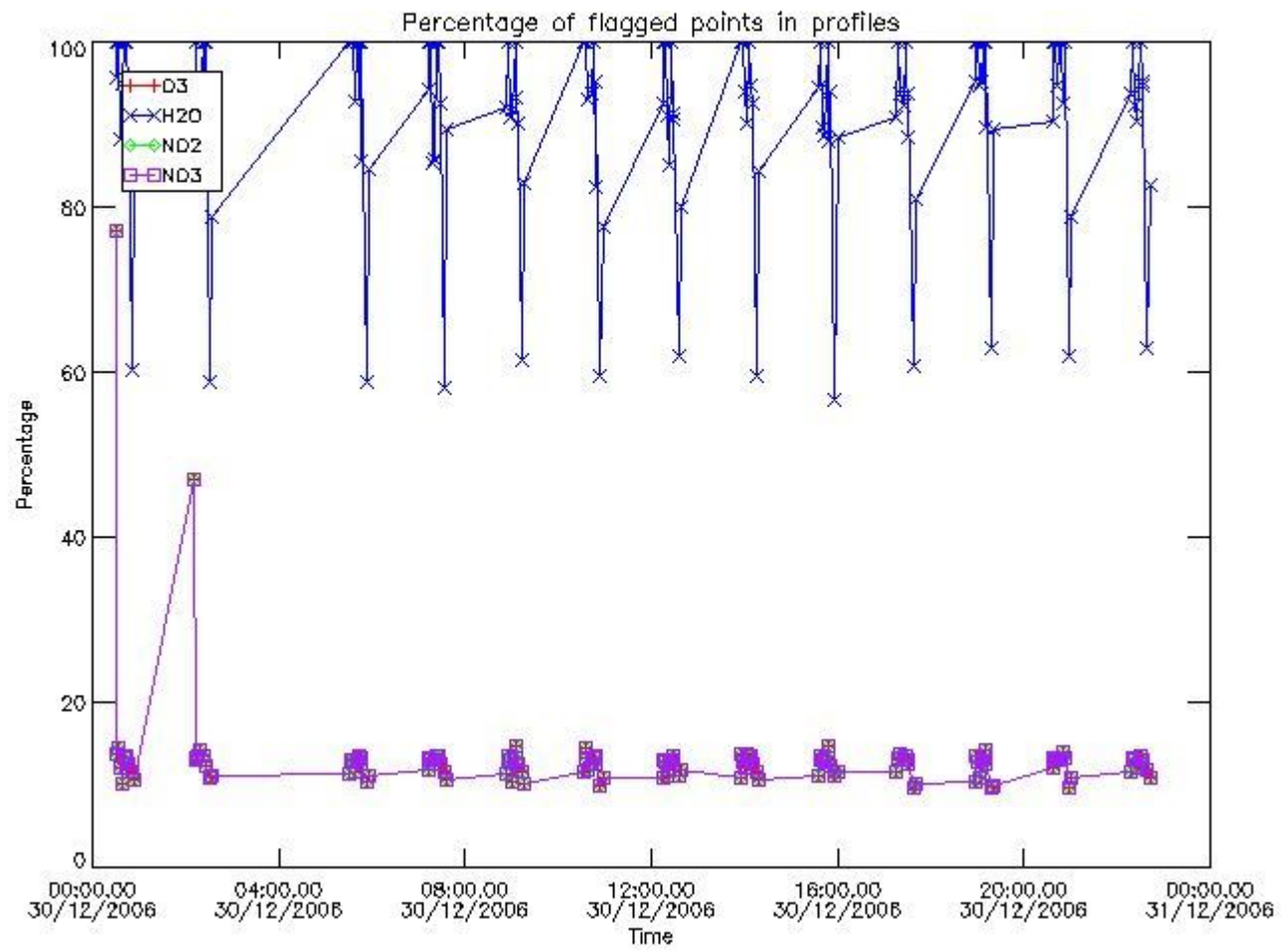
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20061230_000953_000000362054_00159_25263_2252.N1	30-DEC-2006 00:09:53	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	25263	No
2	GOM_NL__2PRFIN20061230_001534_000000352054_00159_25263_2253.N1	30-DEC-2006 00:15:34	Bright	34.500	102	24Alp Ser	2.6000	4250.0	69	25263	No
3	GOM_NL__2PRFIN20061230_002033_000000552054_00159_25263_2254.N1	30-DEC-2006 00:20:33	Bright	55.000	104	27Bet Lib	2.6140	13100.	110	25263	No
4	GOM_NL__2PRFIN20061230_002308_000000422054_00159_25263_2255.N1	30-DEC-2006 00:23:08	Twilight	42.000	122	9Alp2Lib	2.7470	9700.0	84	25263	No
5	GOM_NL__2PRFIN20061230_002957_000000472054_00159_25263_2256.N1	30-DEC-2006 00:29:57	Dark	46.500	54	5The Cen	2.0550	4500.0	93	25263	No
6	GOM_NL__2PRFIN20061230_003123_000000372054_00159_25263_2257.N1	30-DEC-2006 00:31:23	Dark	37.000	78	Alp Lup	2.3040	28000.	74	25263	No
7	GOM_NL__2PRFIN20061230_003246_000000392054_00159_25263_2258.N1	30-DEC-2006 00:32:46	Dark	38.500	95	Zet Cen	2.5450	26000.	77	25263	No
8	GOM_NL__2PRFIN20061230_003516_000000432054_00160_25264_2243.N1	30-DEC-2006 00:35:16	Dark	42.500	10	Bet Cen	0.61000	28000.	85	25264	No
9	GOM_NL__2PRFIN20061230_003822_000000502054_00160_25264_2244.N1	30-DEC-2006 00:38:22	Dark	50.000	12	Alp1Cru	0.77500	30000.	100	25264	No
10	GOM_NL__2PRFIN20061230_004143_000000392054_00160_25264_2245.N1	30-DEC-2006 00:41:43	Dark	38.500	124	The Car	2.7640	30000.	77	25264	No
11	GOM_NL__2PRFIN20061230_004344_000000382054_00160_25264_2246.N1	30-DEC-2006 00:43:44	Dark	37.500	29	Bet Car	1.6720	10200.	75	25264	No
12	GOM_NL__2PRFIN20061230_004502_000000412054_00160_25264_2247.N1	30-DEC-2006 00:45:02	Dark	41.000	71	Iot Car	2.2460	7700.0	82	25264	No
13	GOM_NL__2PRFIN20061230_005059_000000452054_00160_25264_2248.N1	30-DEC-2006 00:50:59	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	25264	No
14	GOM_NL__2PRFIN20061230_005409_000000492054_00160_25264_2249.N1	30-DEC-2006 00:54:09	Dark	48.500	117	Pi Pup	2.7060	3800.0	97	25264	No
15	GOM_NL__2PRFIN20061230_005701_000000472054_00160_25264_2250.N1	30-DEC-2006 00:57:01	Straylight	47.000	23	21Eps CMa	1.5020	26000.	94	25264	No
16	GOM_NL__2PRFIN20061230_010054_000000442054_00160_25264_2251.N1	30-DEC-2006 01:00:54	Straylight	44.000	47	2Bet CMa	1.9760	28000.	88	25264	No
17	GOM_NL__2PRFIN20061230_010415_000000472054_00160_25264_2252.N1	30-DEC-2006 01:04:15	Straylight	47.000	7	19Bet Ori	0.10000	14000.	94	25264	No
18	GOM_NL__2PRFIN20061230_010609_000000432054_00160_25264_2253.N1	30-DEC-2006 01:06:09	Straylight	43.000	30	46Eps Ori	1.6940	30000.	86	25264	No
19	GOM_NL__2PRFIN20061230_010844_000000562054_00160_25264_2254.N1	30-DEC-2006 01:08:44	Twilight	56.000	14	58Alp Ori	0.87000	3000.0	112	25264	No
20	GOM_NL__2PRFIN20061230_011125_000000522054_00160_25264_2255.N1	30-DEC-2006 01:11:25	Bright	52.000	13	87Alp Tau	0.86700	3800.0	104	25264	No
21	GOM_NL__2PRFIN20061230_011243_000000452054_00160_25264_2256.N1	30-DEC-2006 01:12:43	Bright	44.500	176	23Zet Tau	3.0200	22000.	89	25264	No
22	GOM_NL__2PRFIN20061230_011449_000000372054_00160_25264_2257.N1	30-DEC-2006 01:14:49	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	25264	No
23	GOM_NL__2PRFIN20061230_011745_000000392054_00160_25264_2258.N1	30-DEC-2006 01:17:45	Bright	39.000	107	37The Aur	2.6490	11000.	78	25264	No
24	GOM_NL__2PRFIN20061230_011945_000000432054_00160_25264_2259.N1	30-DEC-2006 01:19:45	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	25264	No
25	GOM_NL__2PRFIN20061230_013152_000000332054_00160_25264_2260.N1	30-DEC-2006 01:31:52	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	25264	No
26	GOM_NL__2PRFIN20061230_013623_000000372054_00160_25264_2261.N1	30-DEC-2006 01:36:23	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	25264	No
27	GOM_NL__2PRFIN20061230_014009_000000362054_00160_25264_2262.N1	30-DEC-2006 01:40:09	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	25264	No
28	GOM_NL__2PRFIN20061230_015029_000000362054_00160_25264_2263.N1	30-DEC-2006 01:50:29	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	25264	No
29	GOM_NL__2PRFIN20061230_015610_000000342054_00160_25264_2264.N1	30-DEC-2006 01:56:10	Bright	34.000	102	24Alp Ser	2.6000	4250.0	68	25264	No
30	GOM_NL__2PRFIN20061230_020109_000000372054_00160_25264_2265.N1	30-DEC-2006 02:01:09	Bright	36.500	104	27Bet Lib	2.6140	13100.	73	25264	No
31	GOM_NL__2PRFIN20061230_020344_000000412054_00160_25264_2266.N1	30-DEC-2006 02:03:44	Twilight	41.000	122	9Alp2Lib	2.7470	9700.0	82	25264	No
32	GOM_NL__2PRFIN20061230_021034_000000422054_00160_25264_2267.N1	30-DEC-2006 02:10:34	Dark	42.000	54	5The Cen	2.0550	4500.0	84	25264	No
33	GOM_NL__2PRFIN20061230_021159_000000392054_00160_25264_2268.N1	30-DEC-2006 02:11:59	Dark	38.500	78	Alp Lup	2.3040	28000.	77	25264	No
34	GOM_NL__2PRFIN20061230_021323_000000402054_00160_25264_2269.N1	30-DEC-2006 02:13:23	Dark	39.500	95	Zet Cen	2.5450	26000.	79	25264	No
35	GOM_NL__2PRFIN20061230_021552_000000382054_00161_25265_2250.N1	30-DEC-2006 02:15:52	Dark	38.000	10	Bet Cen	0.61000	28000.	76	25265	No
36	GOM_NL__2PRFIN20061230_021859_000000432054_00161_25265_2251.N1	30-DEC-2006 02:18:59	Dark	43.000	12	Alp1Cru	0.77500	30000.	86	25265	No
37	GOM_NL__2PRFIN20061230_022219_000000382054_00161_25265_2252.N1	30-DEC-2006 02:22:19	Dark	38.000	124	The Car	2.7640	30000.	76	25265	No
38	GOM_NL__2PRFIN20061230_022421_000000382054_00161_25265_2253.N1	30-DEC-2006 02:24:21	Dark	37.500	29	Bet Car	1.6720	10200.	75	25265	No
39	GOM_NL__2PRFIN20061230_022539_000000422054_00161_25265_2254.N1	30-DEC-2006 02:25:39	Dark	41.500	71	Iot Car	2.2460	7700.0	83	25265	No
40	GOM_NL__2PRFIN20061230_023135_000000472054_00161_25265_2255.N1	30-DEC-2006 02:31:35	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	25265	No
41	GOM_NL__2PRFIN20061230_023446_000000462054_00161_25265_2256.N1	30-DEC-2006 02:34:46	Dark	45.500	117	Pi Pup	2.7060	3800.0	91	25265	No
42	GOM_NL__2PRFIN20061230_023737_000000482054_00161_25265_2257.N1	30-DEC-2006 02:37:37	Straylight	48.000	23	21Eps CMa	1.5020	26000.	96	25265	No

338	GOM_NL__2PRFIN20061230_232408_000000372054_00173_25277_2597.N1	30-DEC-2006 23:24:08	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	25277	No
339	GOM_NL__2PRFIN20061230_232757_000000342054_00173_25277_2598.N1	30-DEC-2006 23:27:57	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	25277	No
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341	GOM_NL__2PRFIN20061230_234401_000000352054_00173_25277_2600.N1	30-DEC-2006 23:44:01	Bright	35.000	102	24Alp Ser	2.6000	4250.0	70	25277	No
342	GOM_NL__2PRFIN20061230_234902_000000362054_00173_25277_2601.N1	30-DEC-2006 23:49:02	Bright	36.000	104	27Bet Lib	2.6140	13100.	72	25277	No

3. Quality information per product

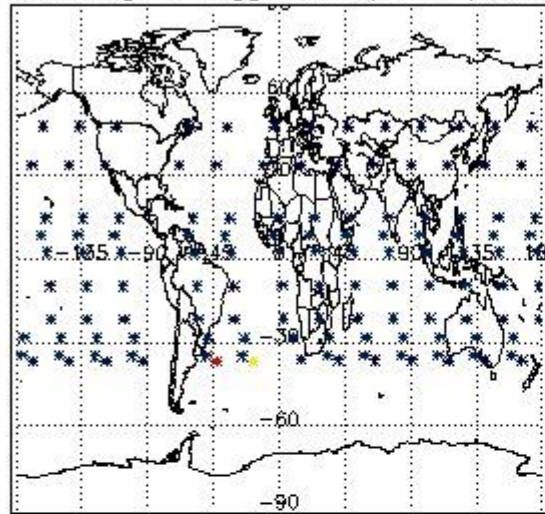
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

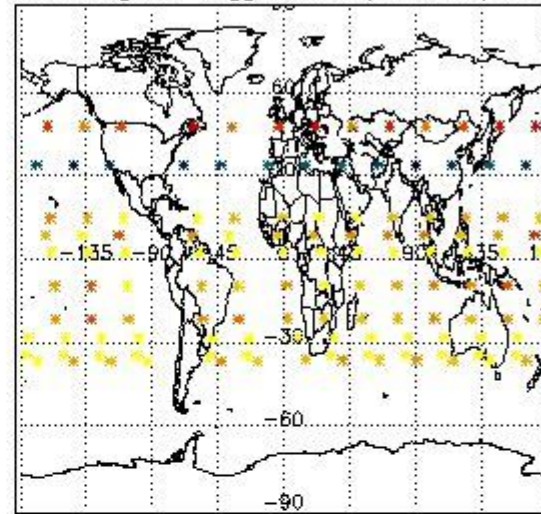


3.2 Plot quality information per product (world map)

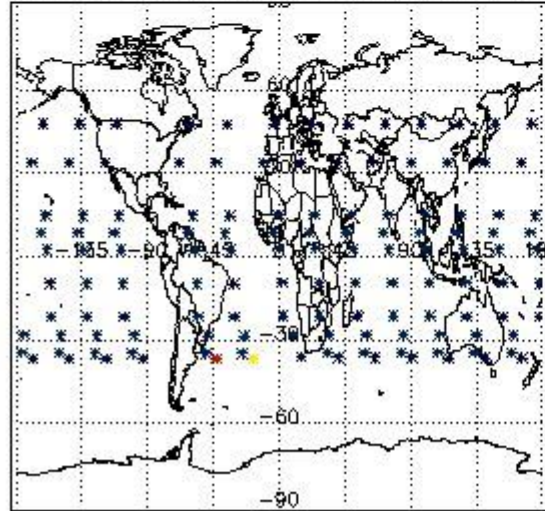
Percentage of flagged data per O3 profile



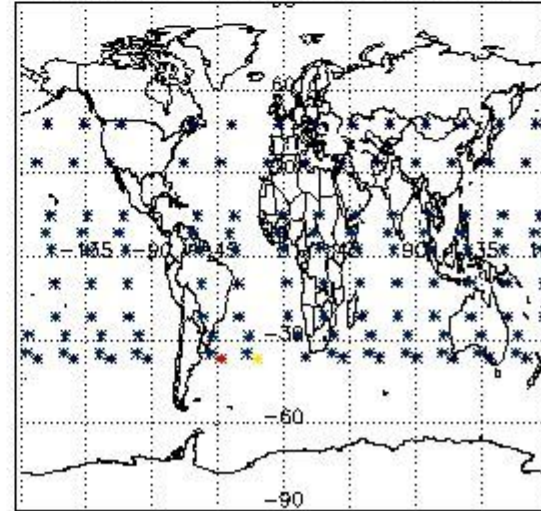
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

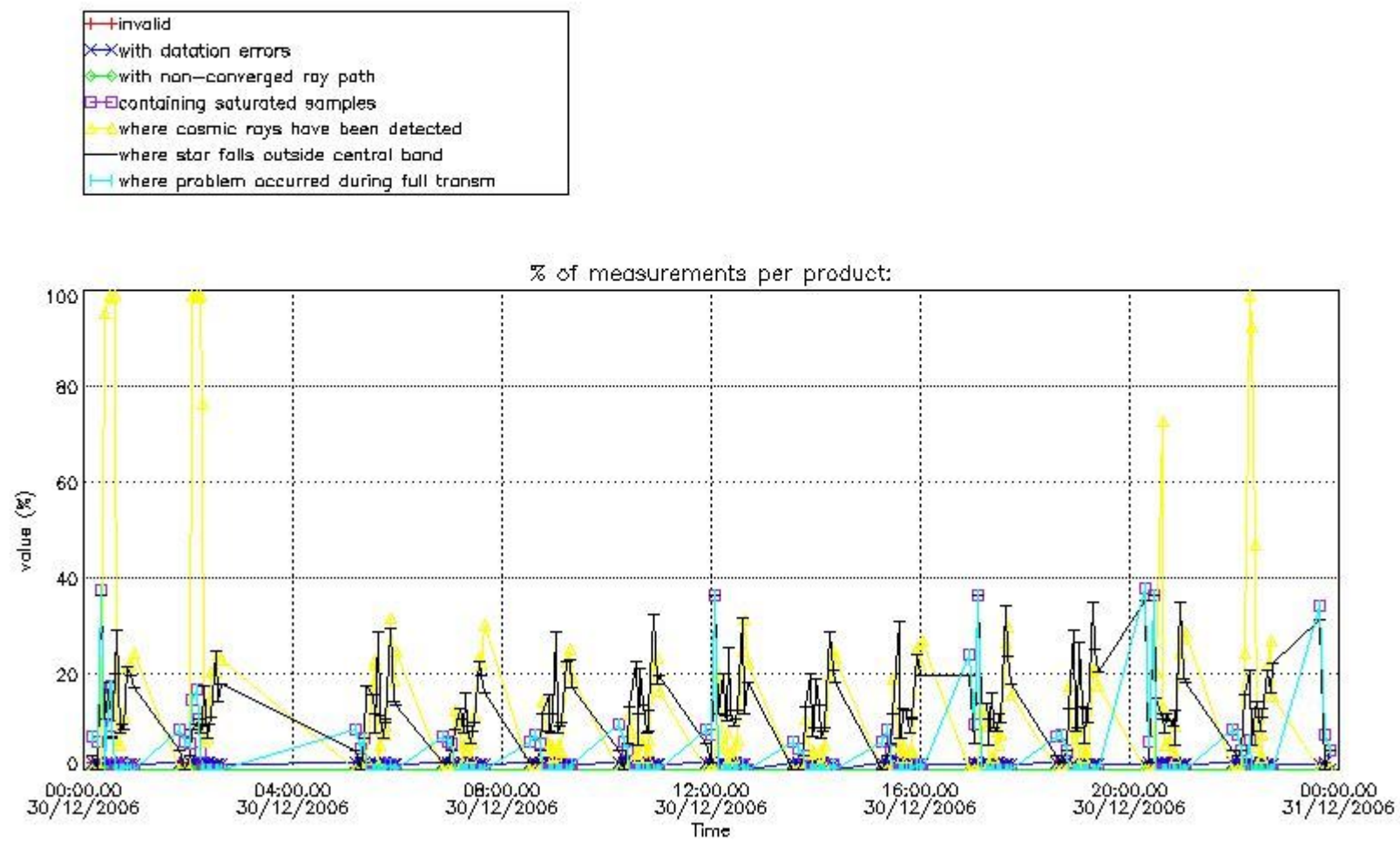


4. Level 1 quality information per product

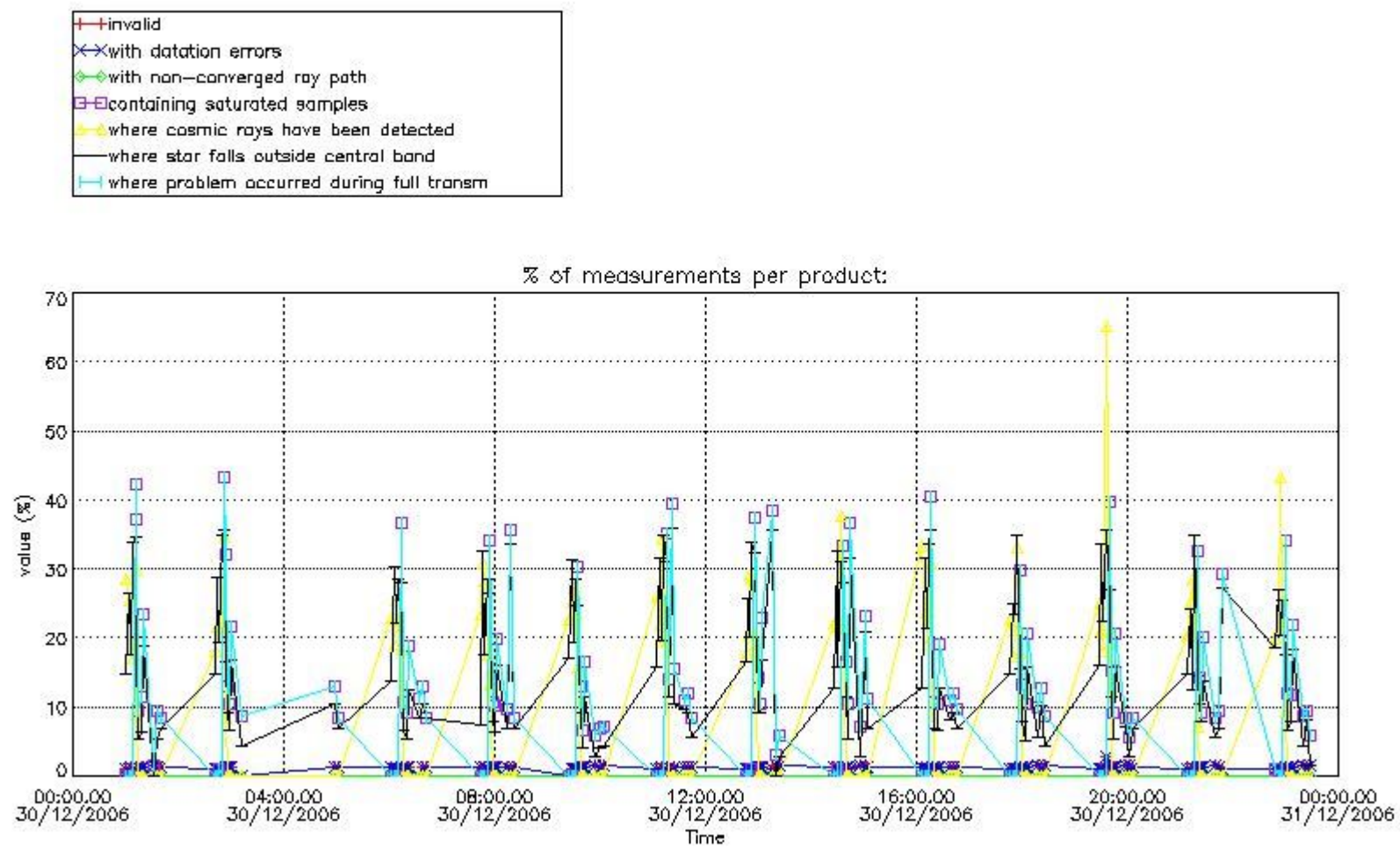
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

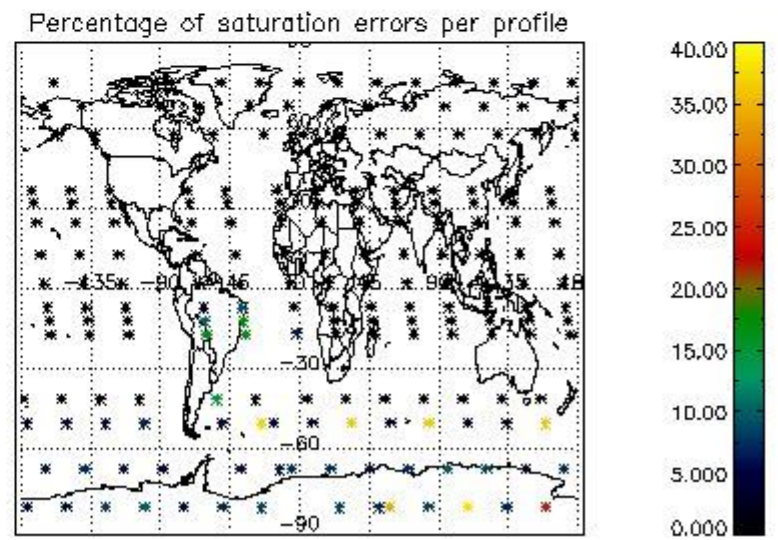
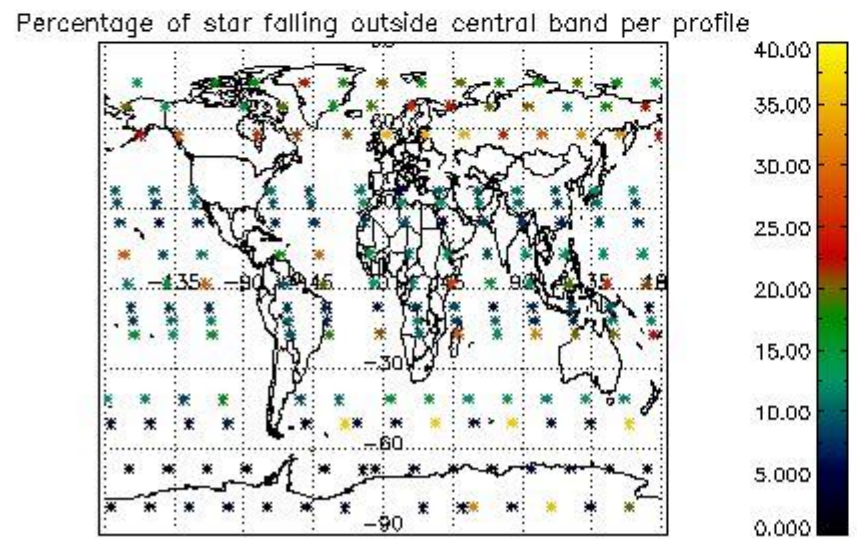
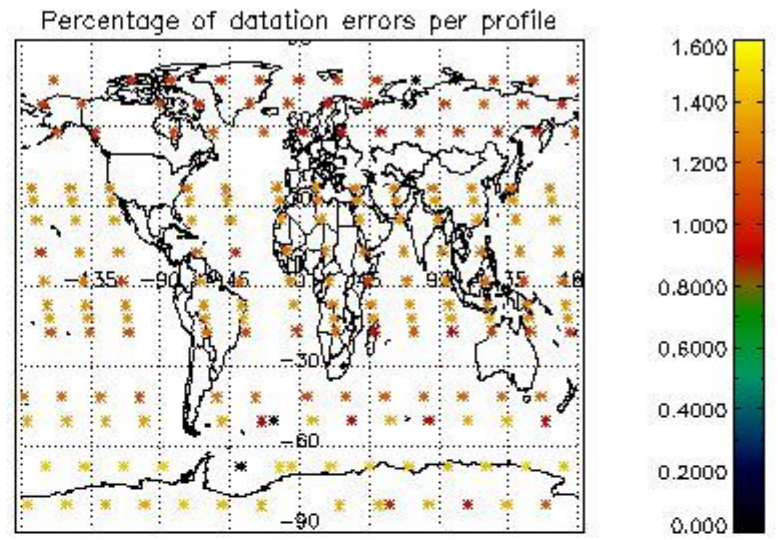
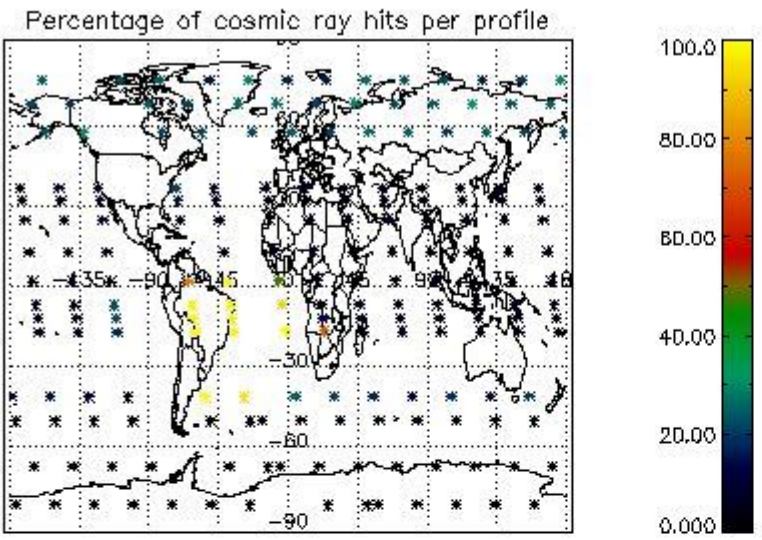


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

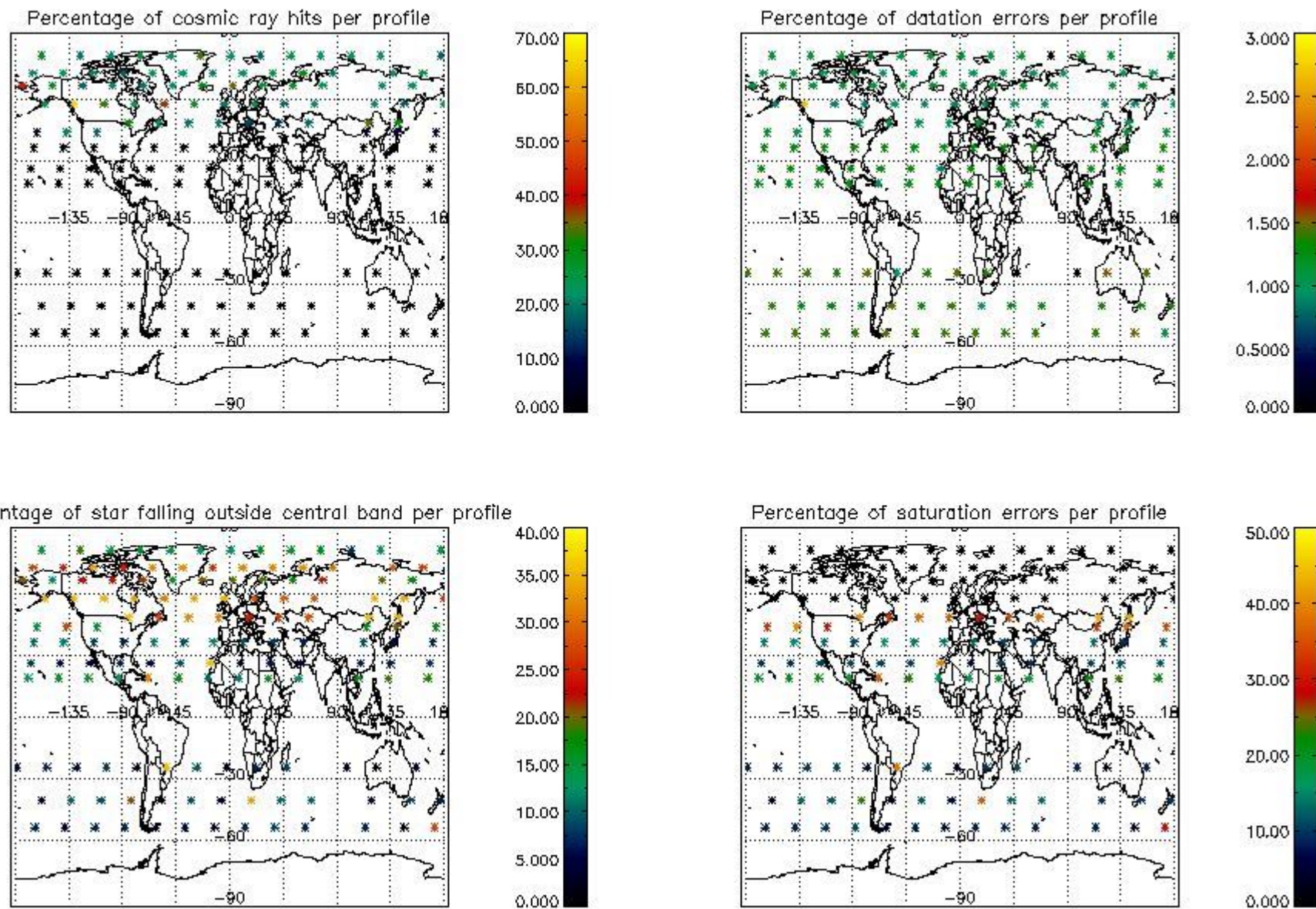


4.2 Plot quality information per product coming from level 1b processing (world map)

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

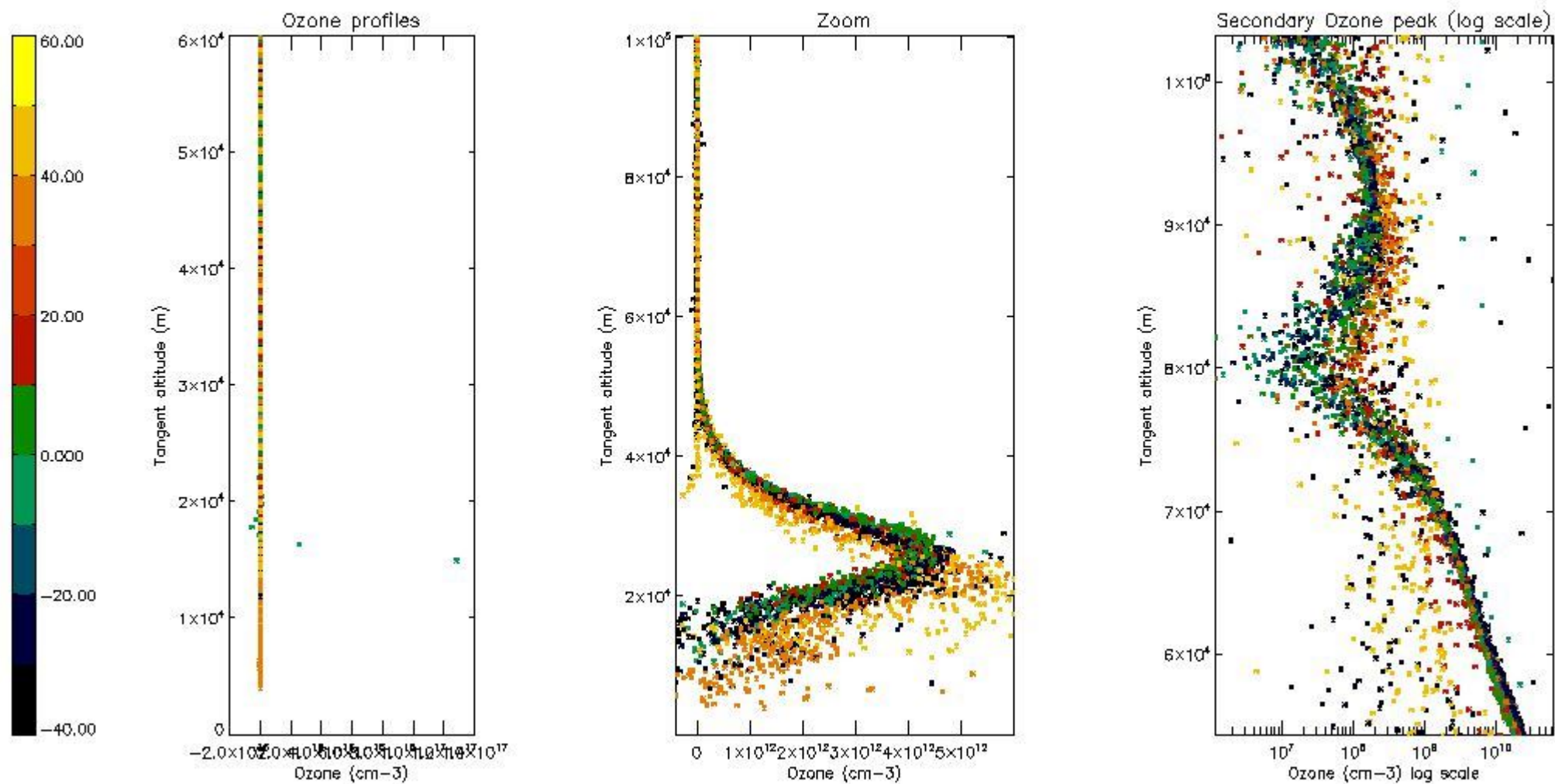
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	21

STD < 10	17
STD < 5	11

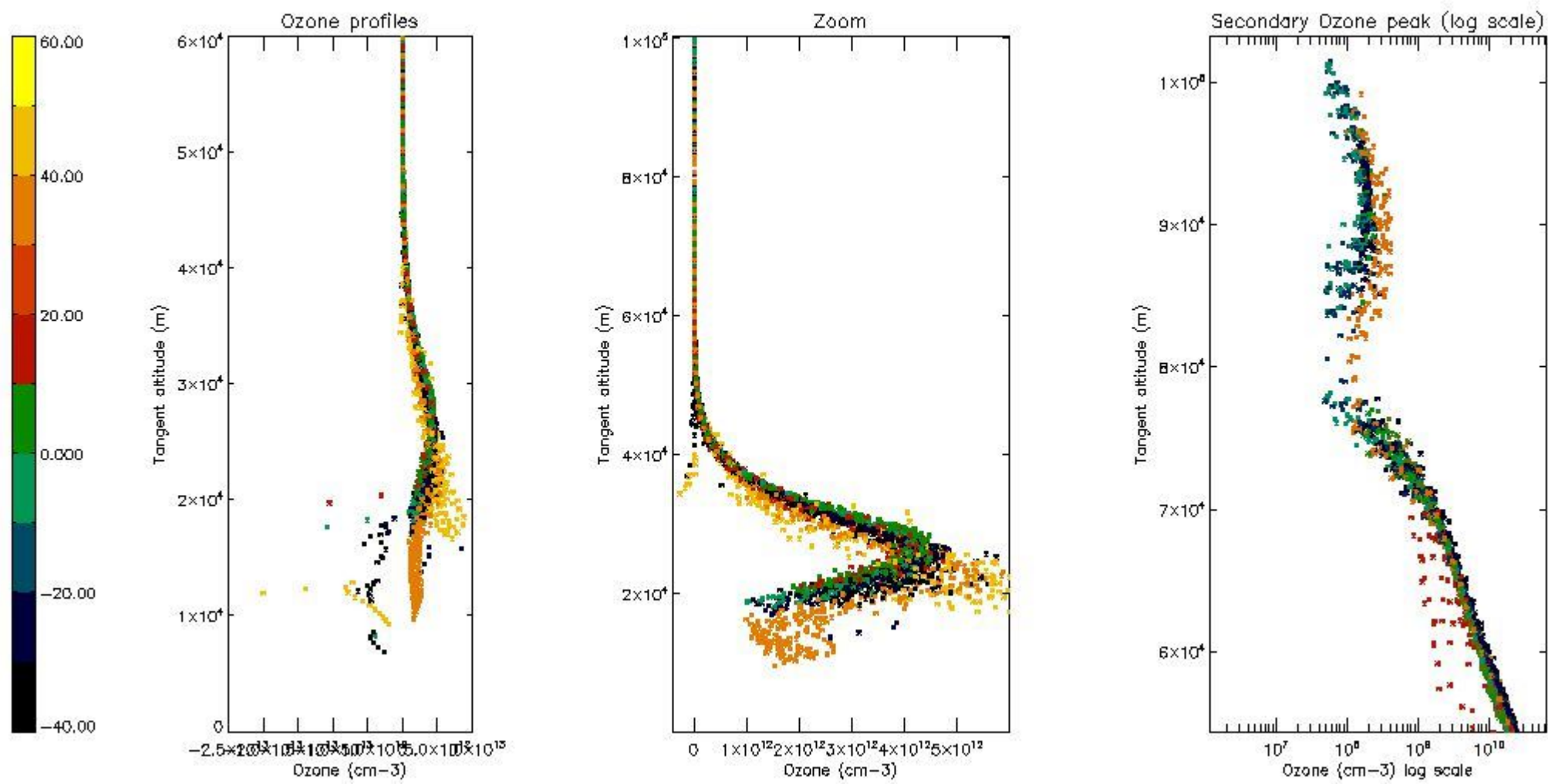
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



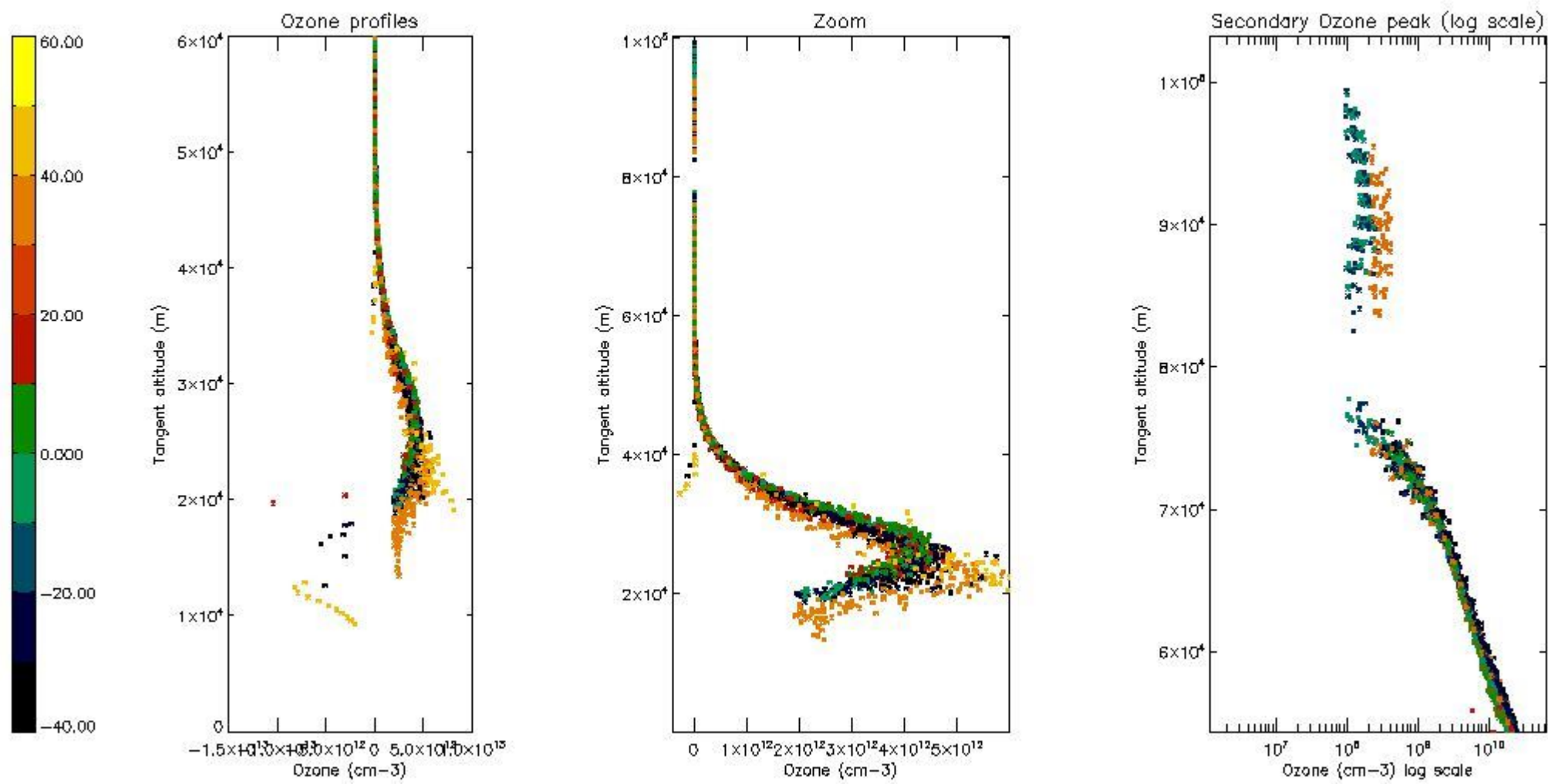
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



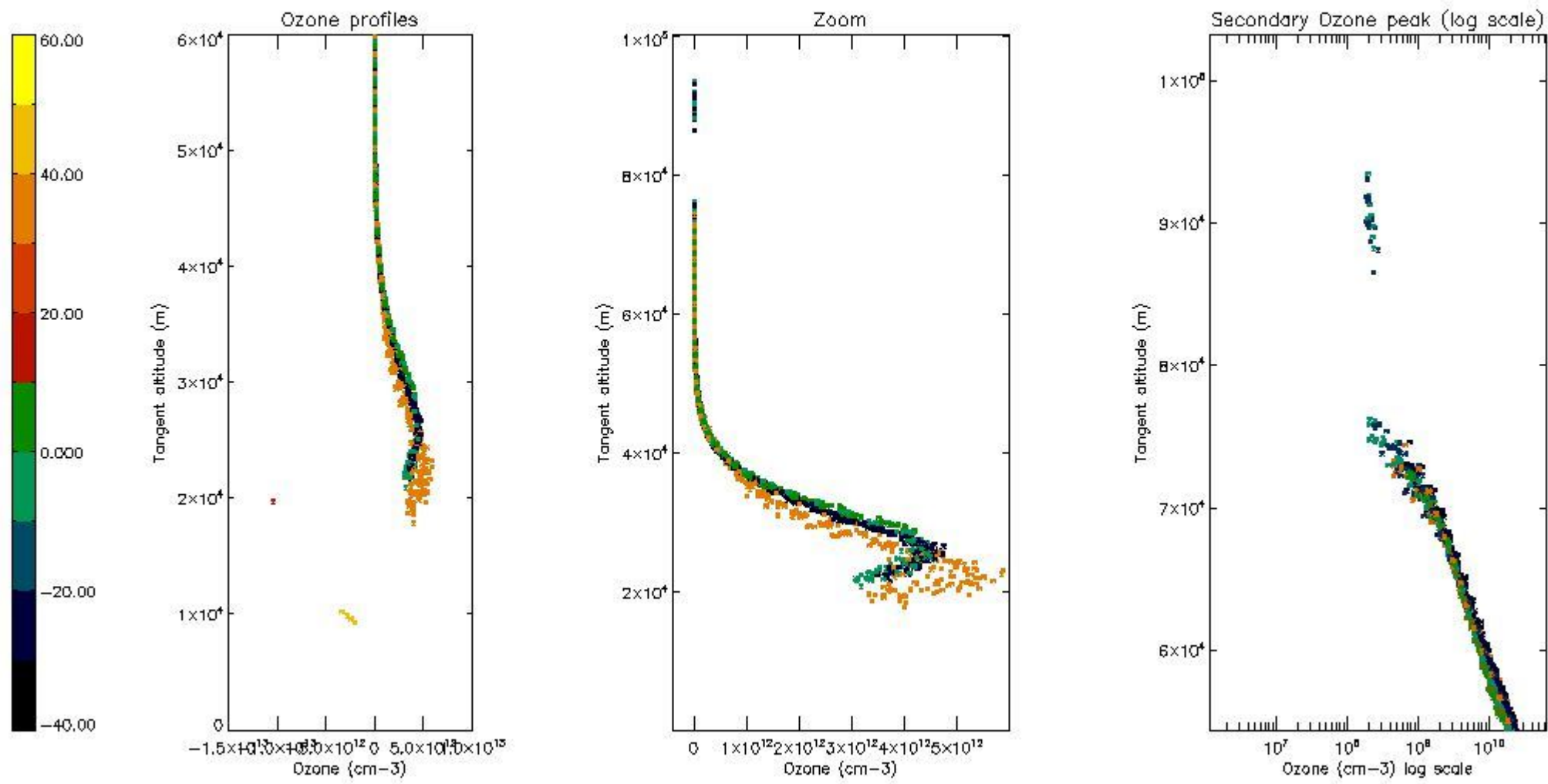
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



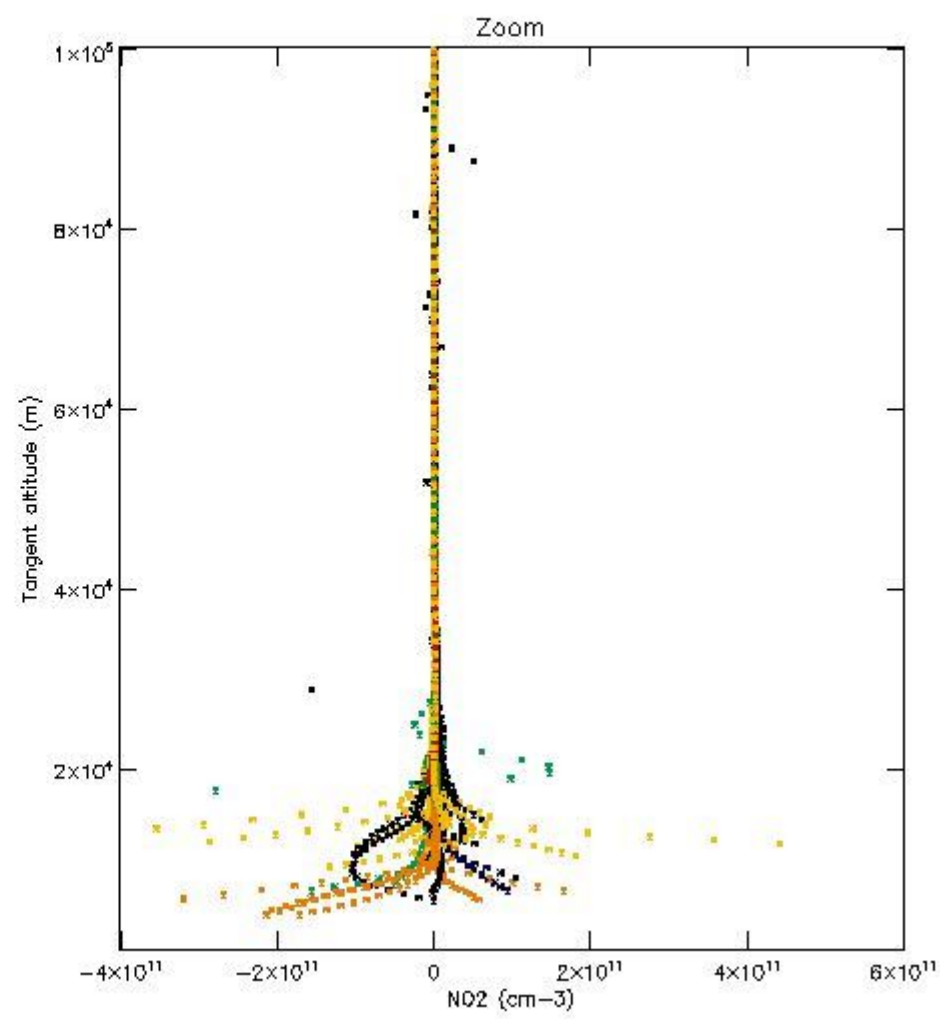
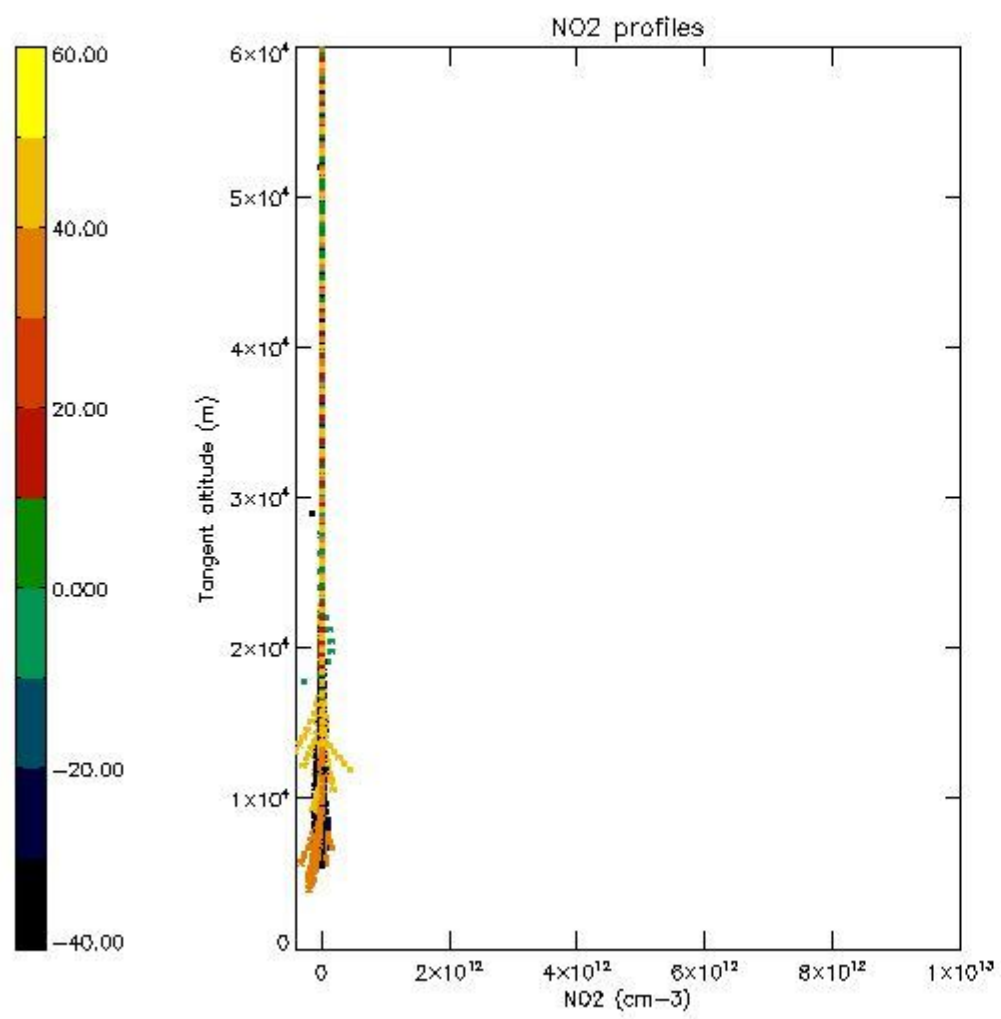
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



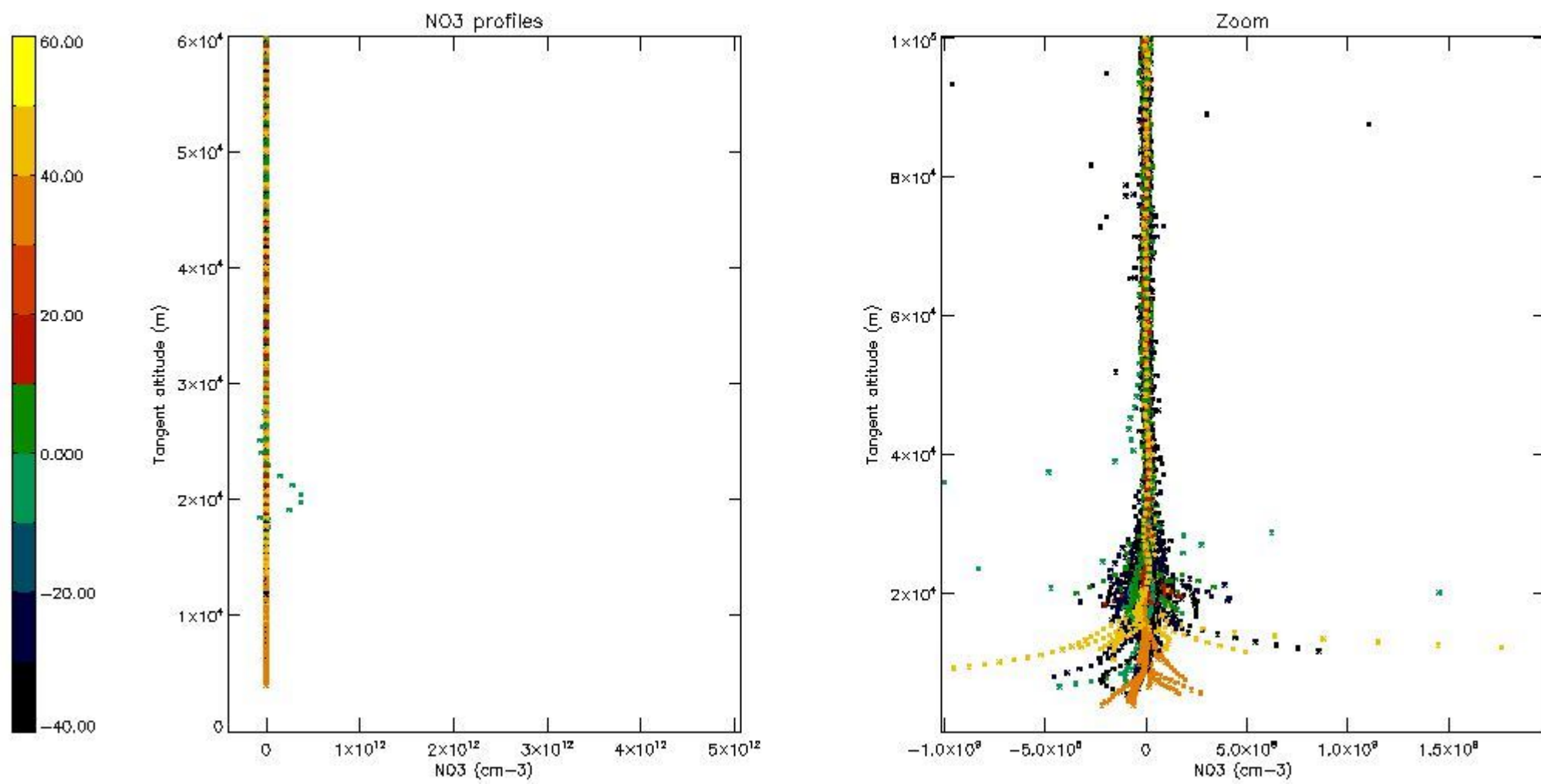
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



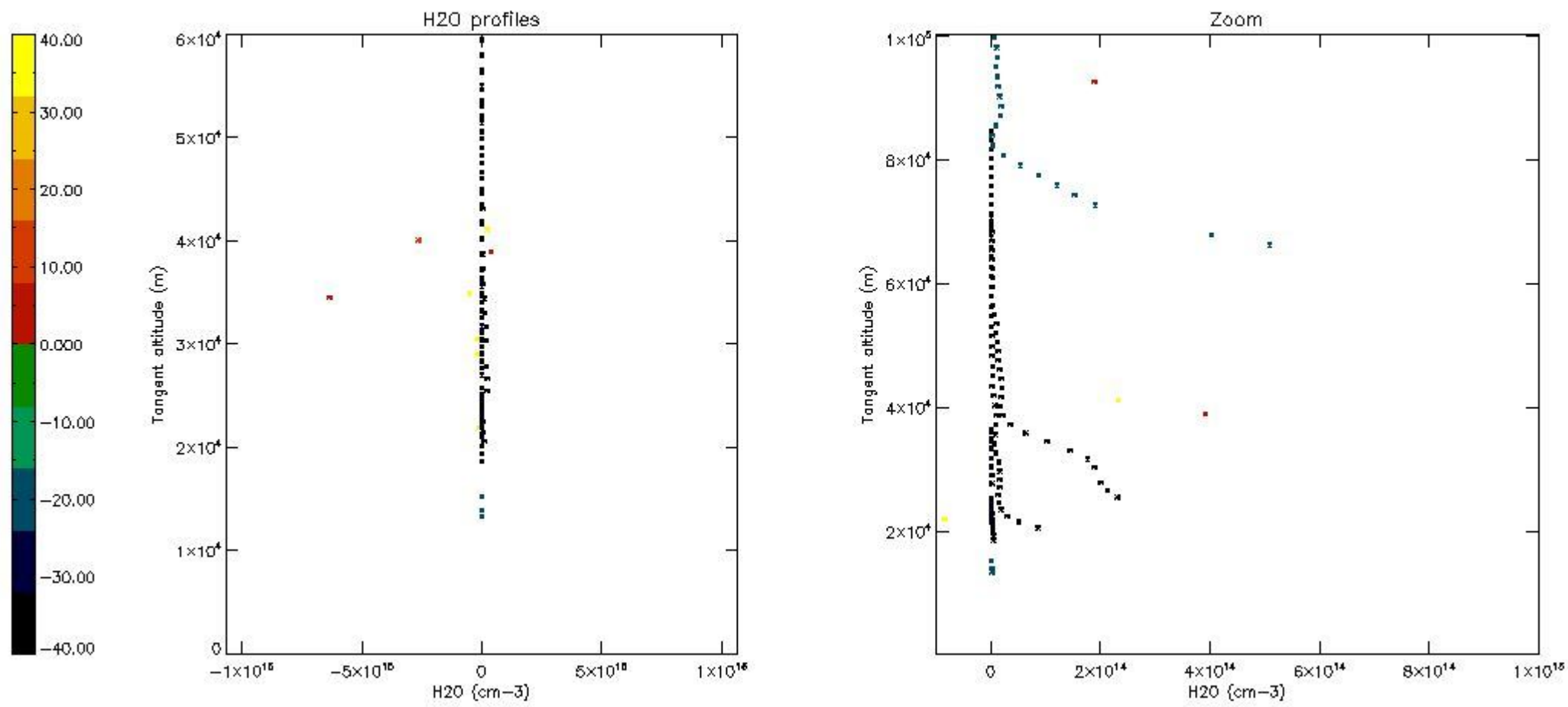
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

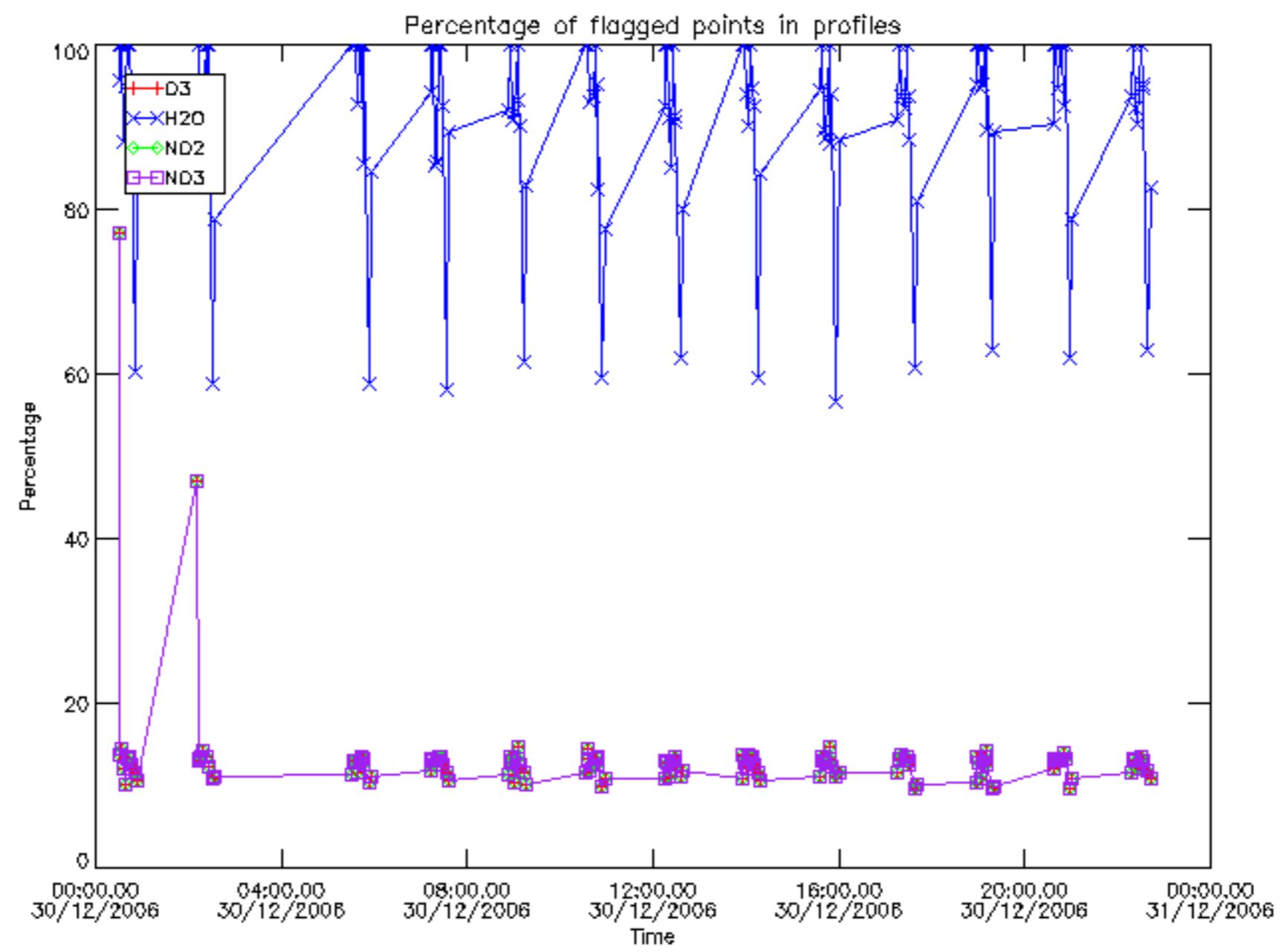
The colorbar represents the latitude.



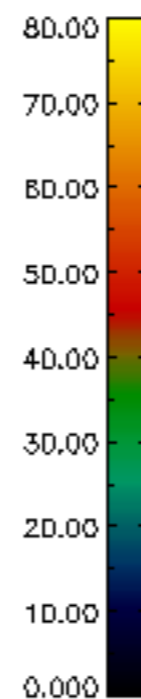
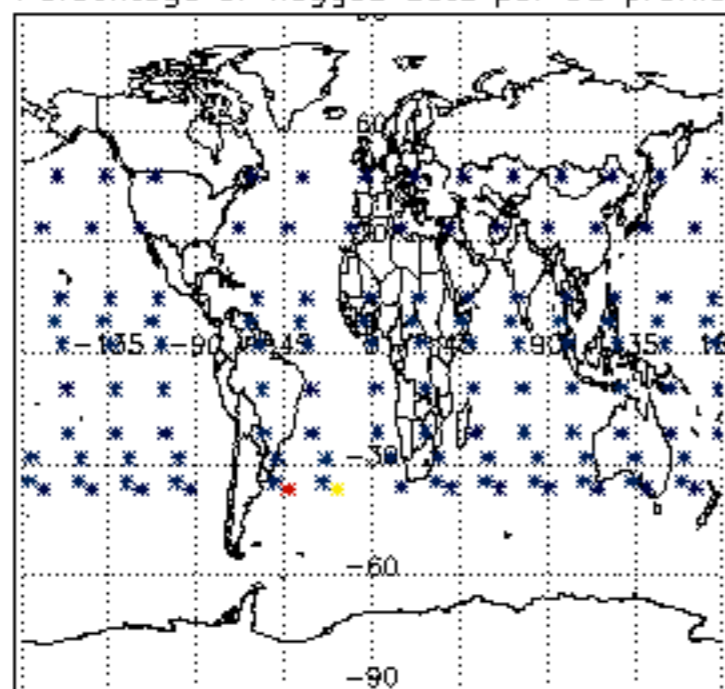
6. Auxiliary Data Files used for the production reported in section 2

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.

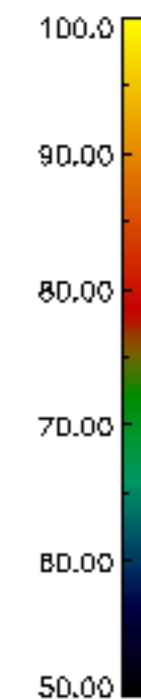
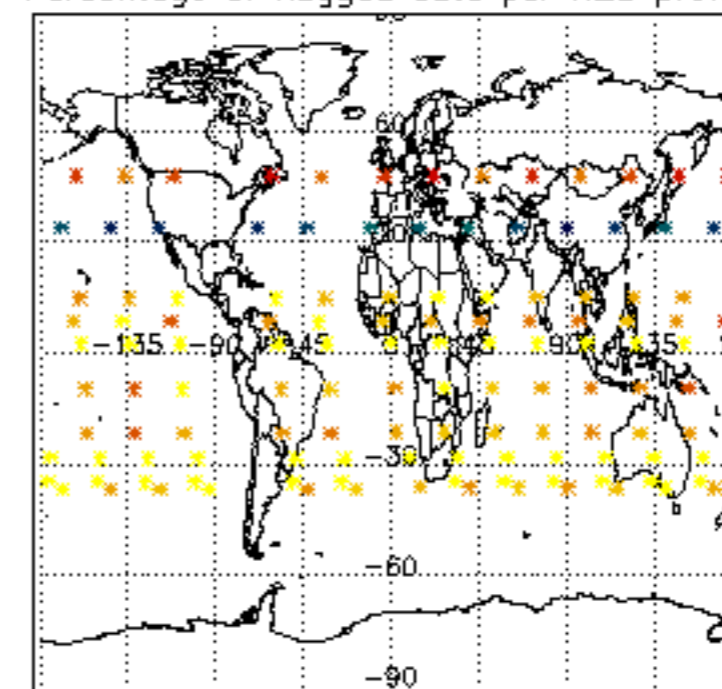
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	30-DEC-2006 00:09:53
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	30-DEC-2006 00:09:53
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	30-DEC-2006 00:09:53



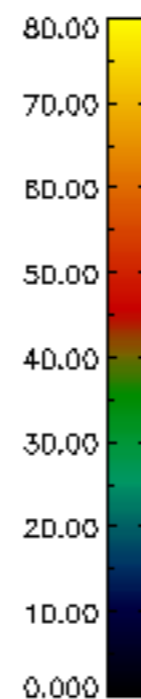
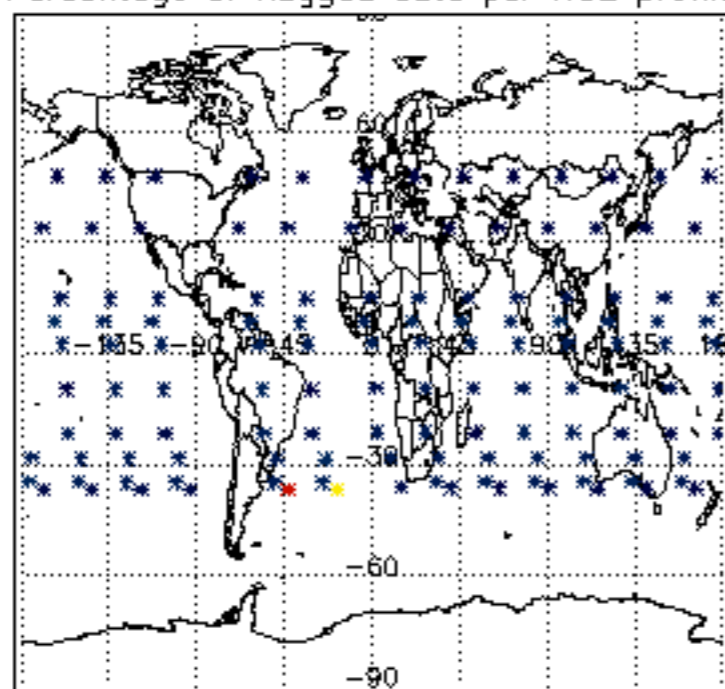
Percentage of flagged data per D3 profile



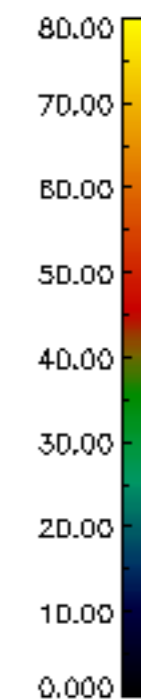
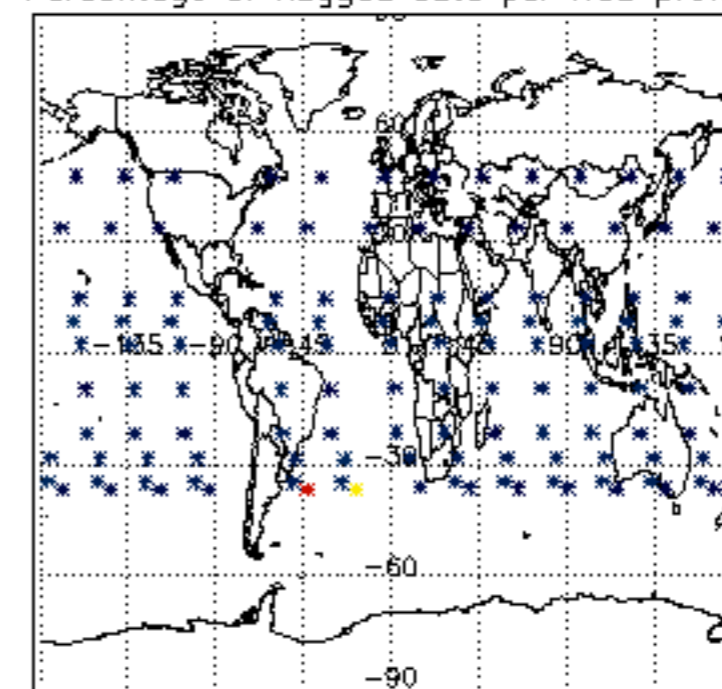
Percentage of flagged data per H2O profile

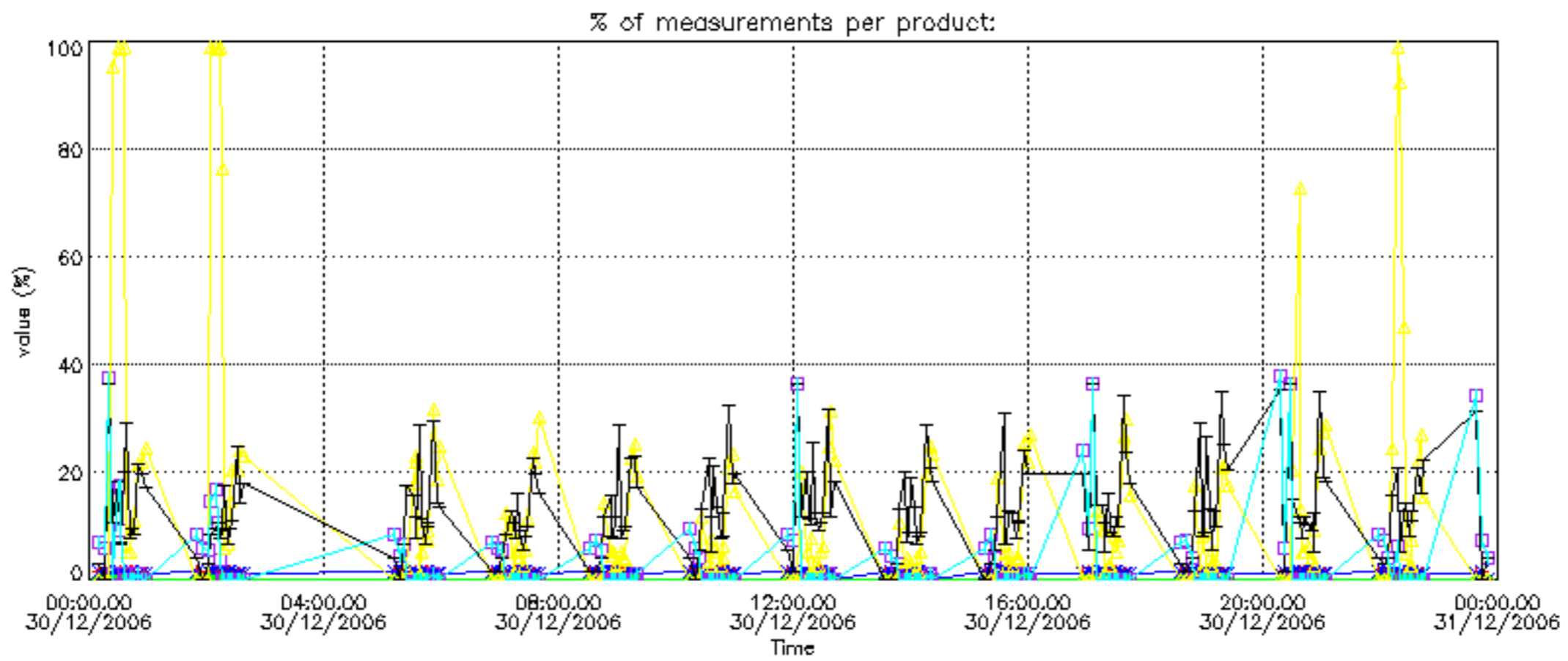


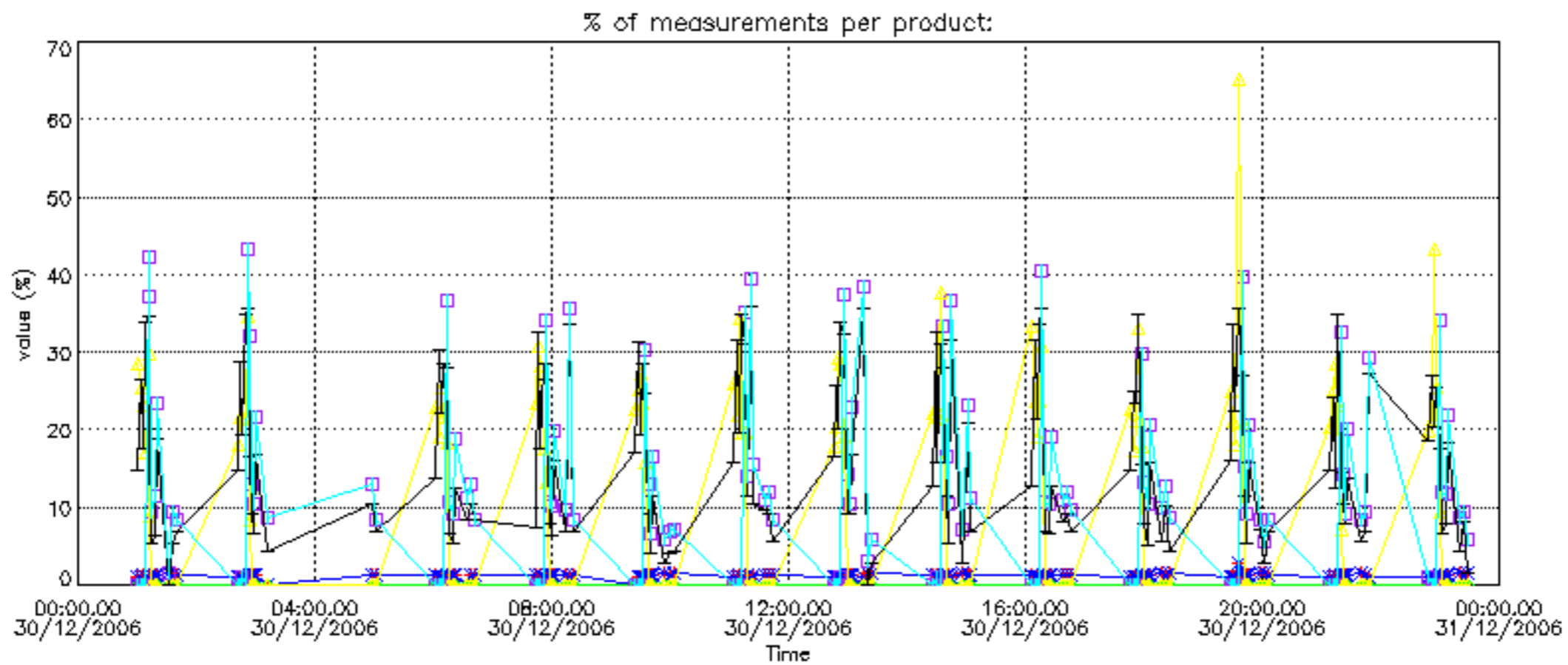
Percentage of flagged data per NO2 profile



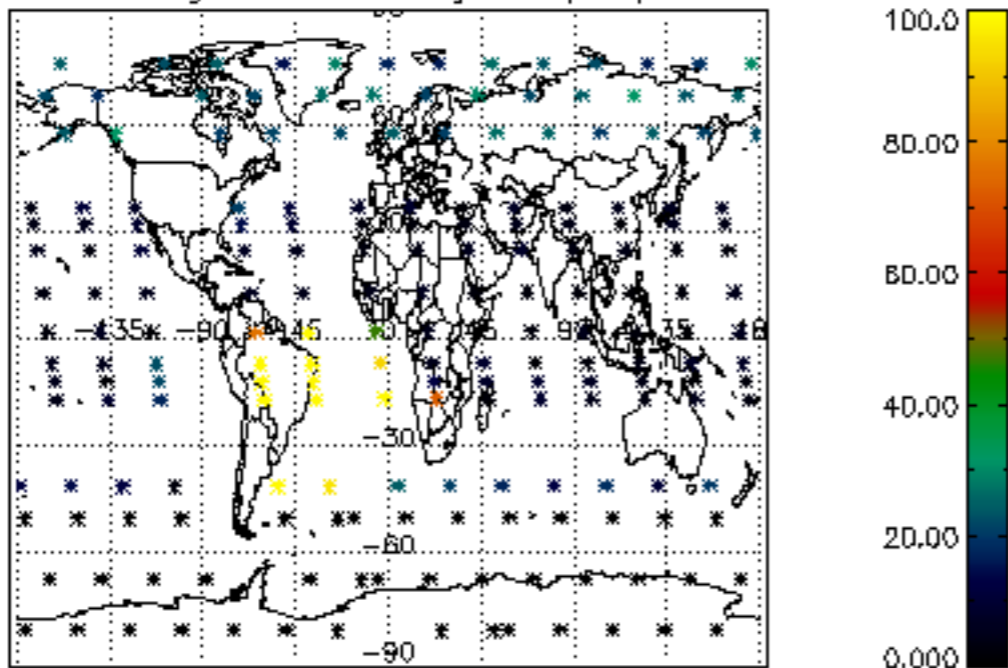
Percentage of flagged data per NO3 profile



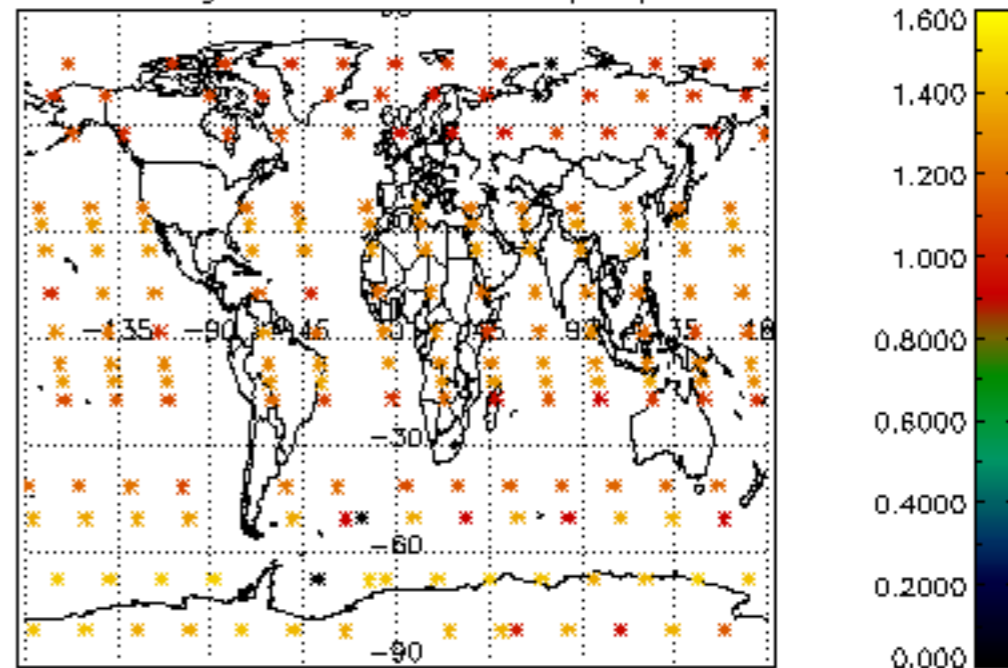




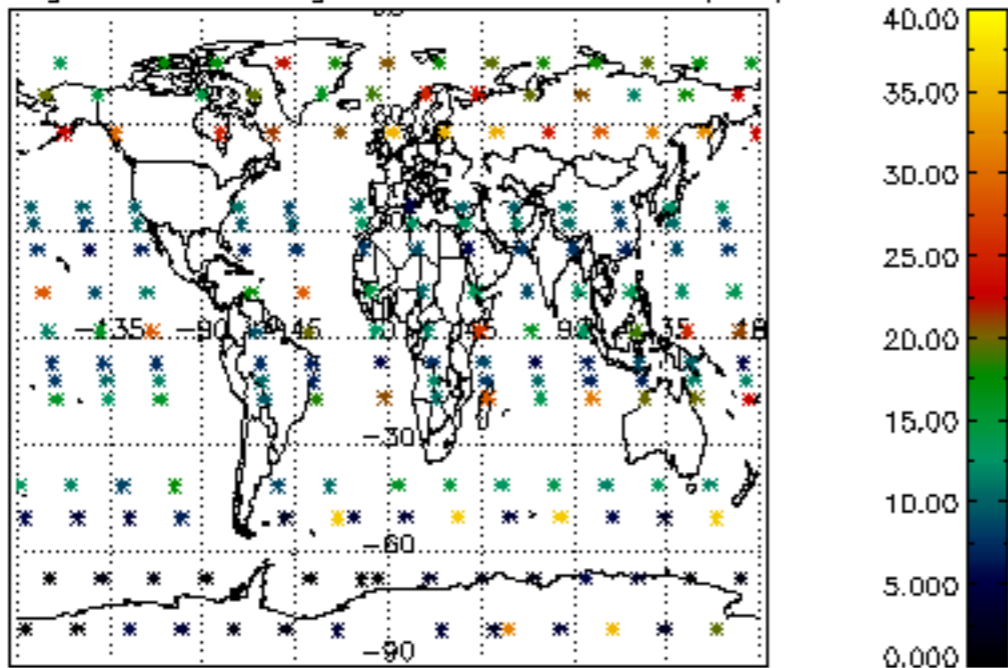
Percentage of cosmic ray hits per profile



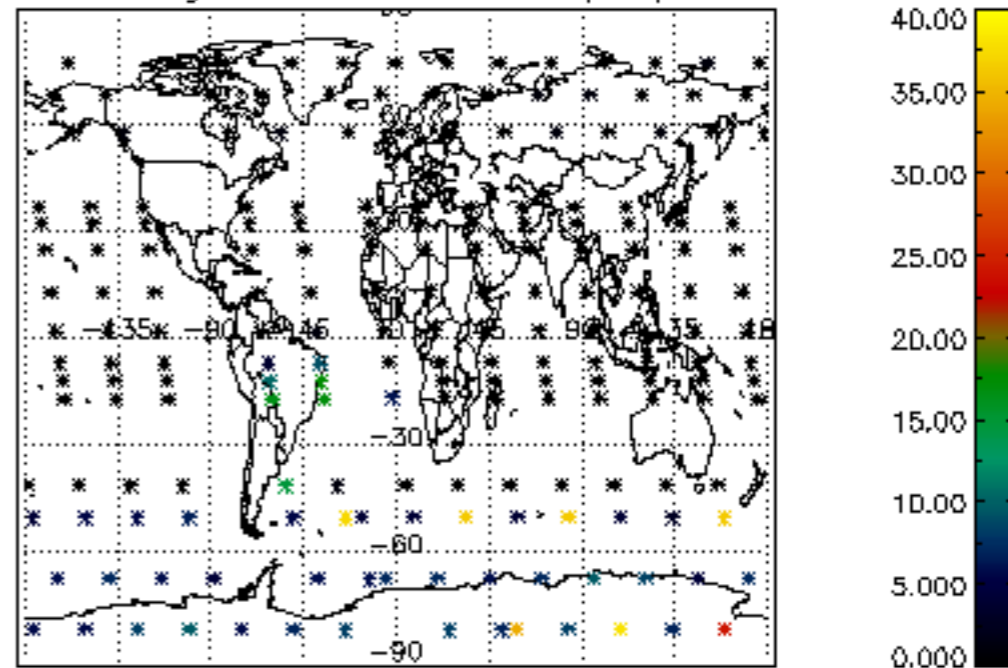
Percentage of datation errors per profile



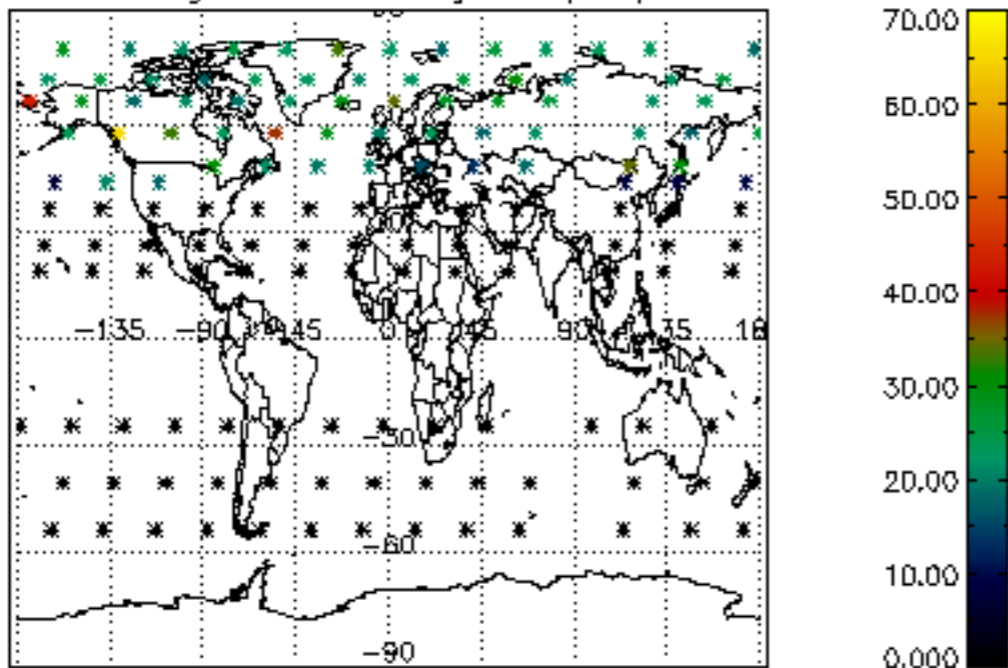
Percentage of star falling outside central band per profile



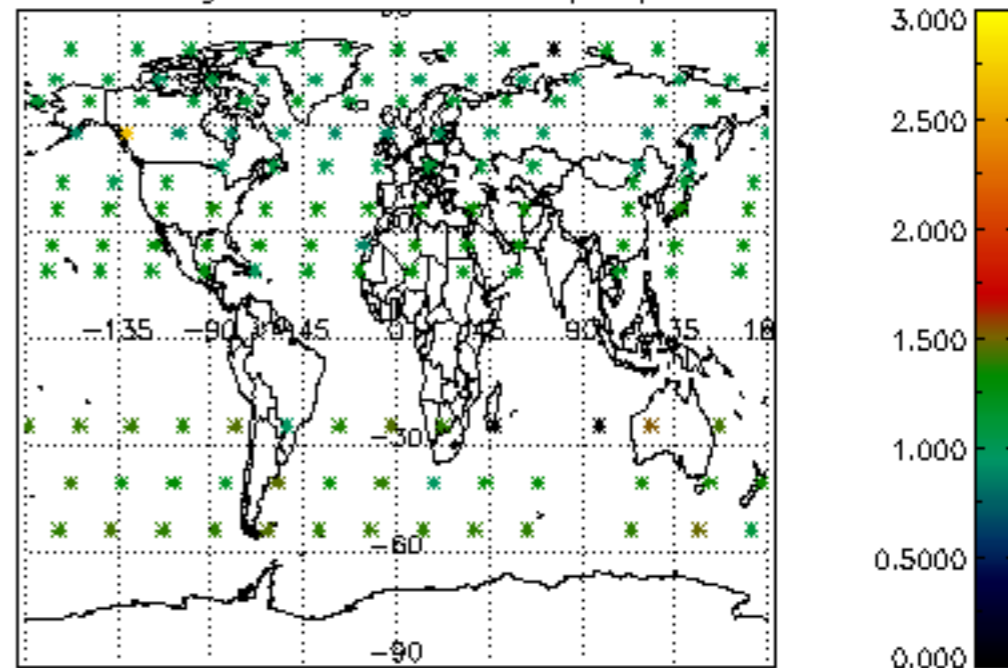
Percentage of saturation errors per profile



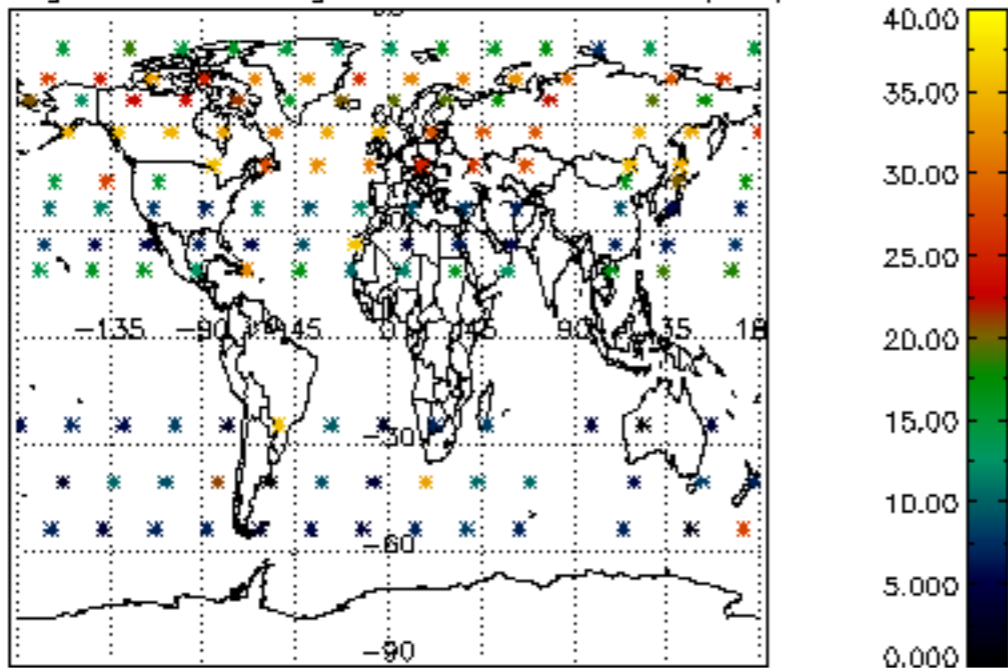
Percentage of cosmic ray hits per profile



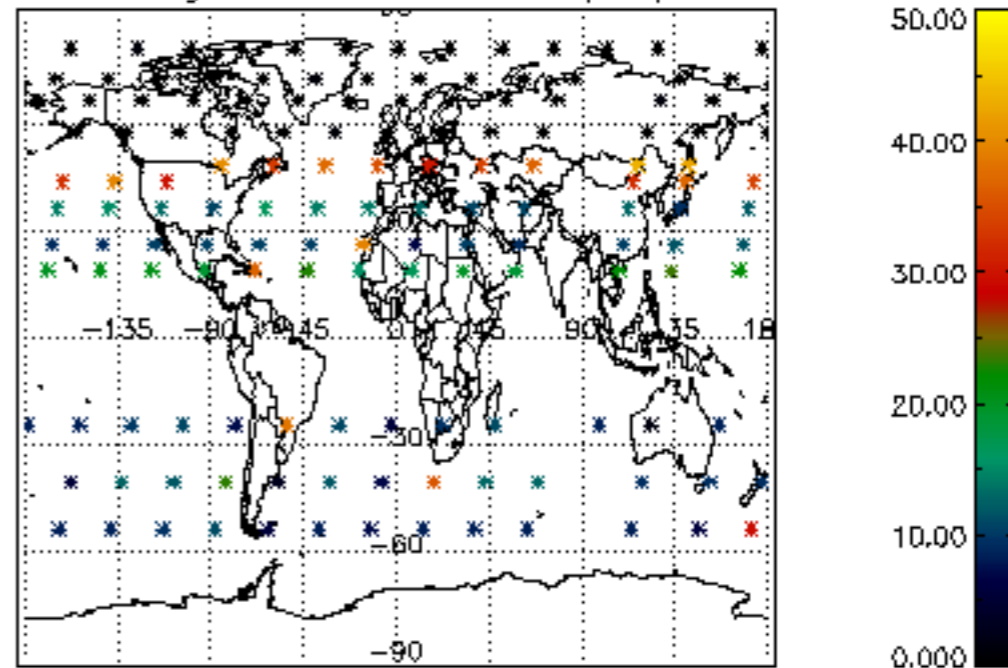
Percentage of datation errors per profile

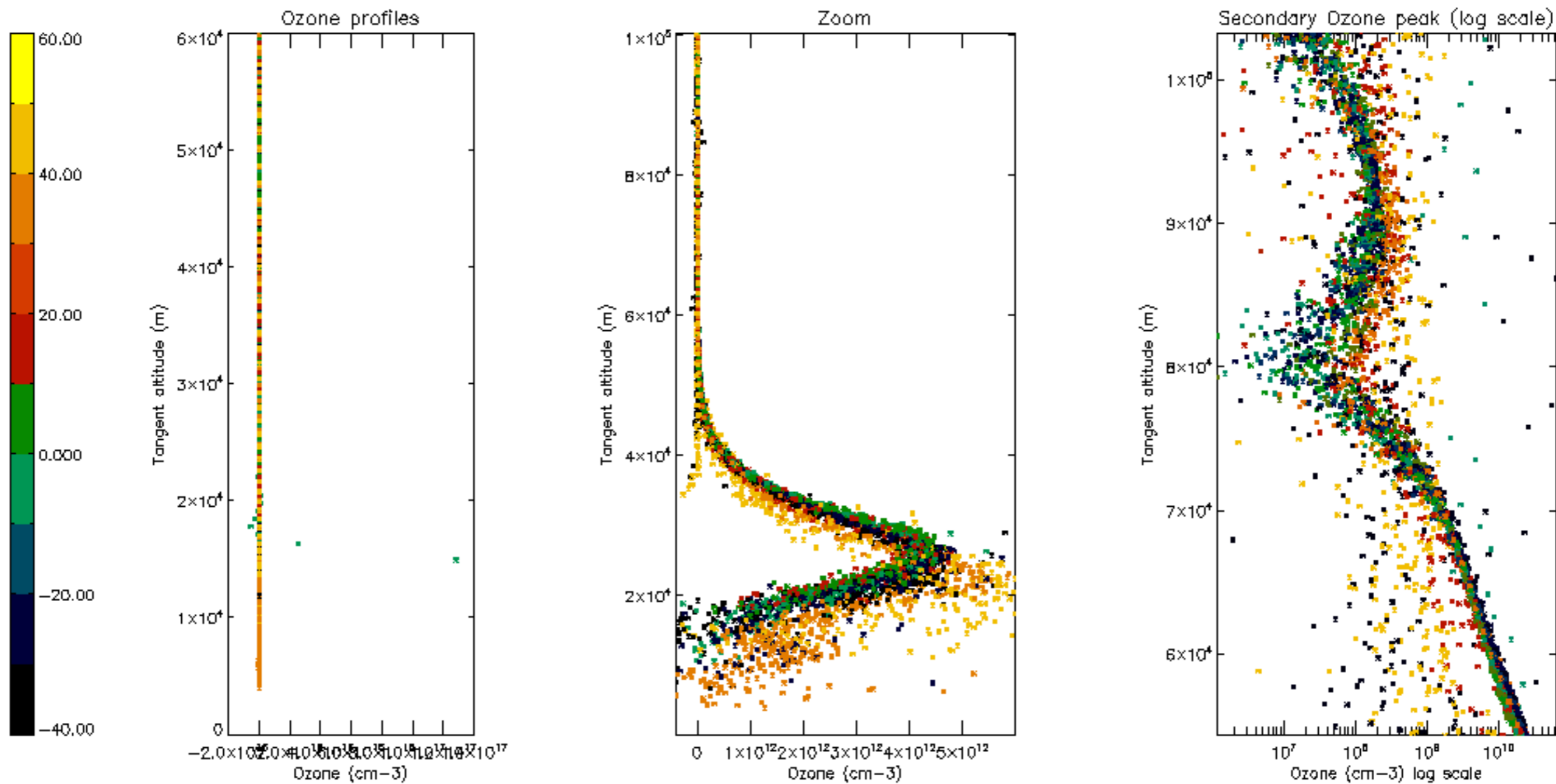


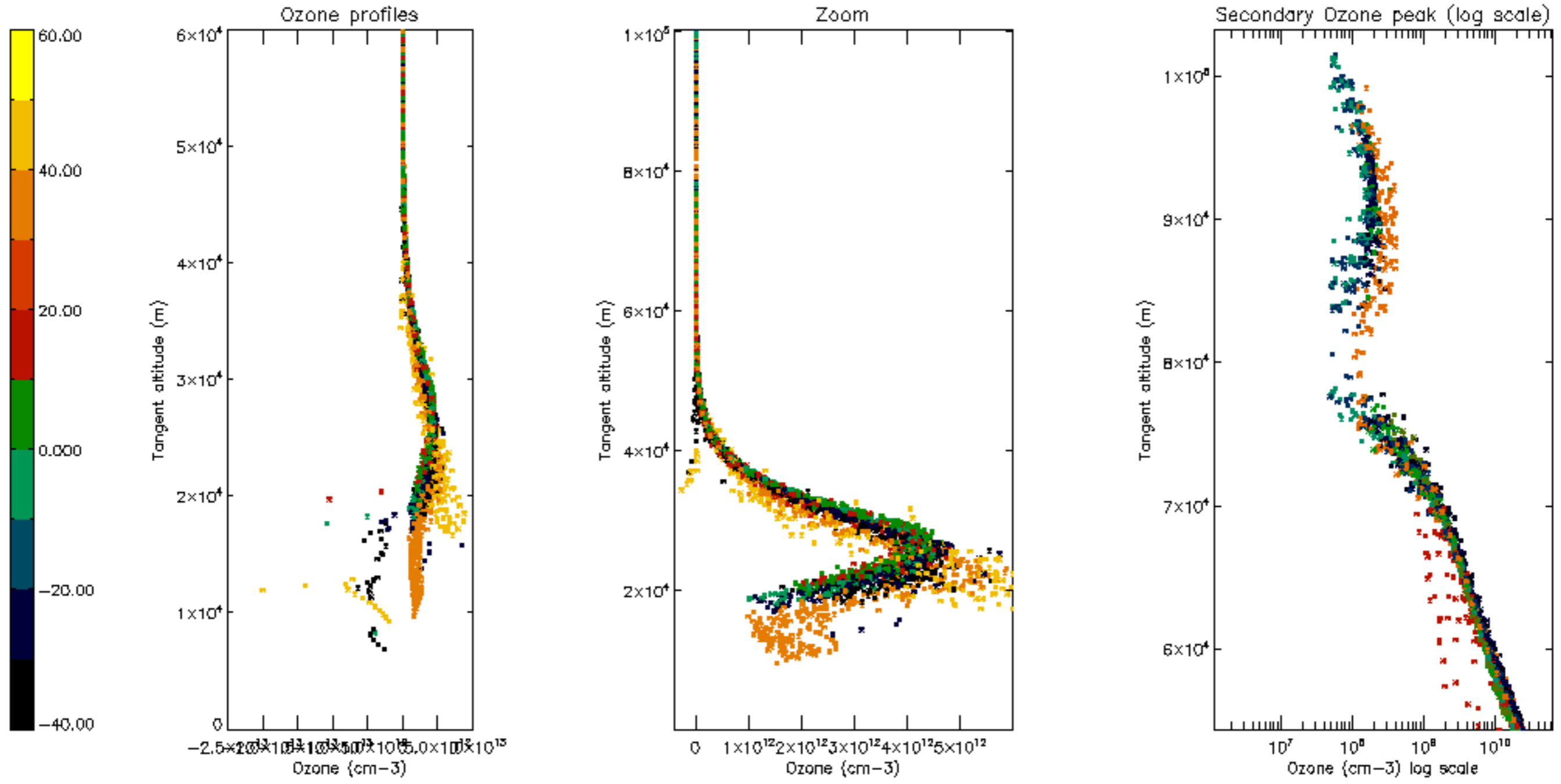
Percentage of star falling outside central band per profile

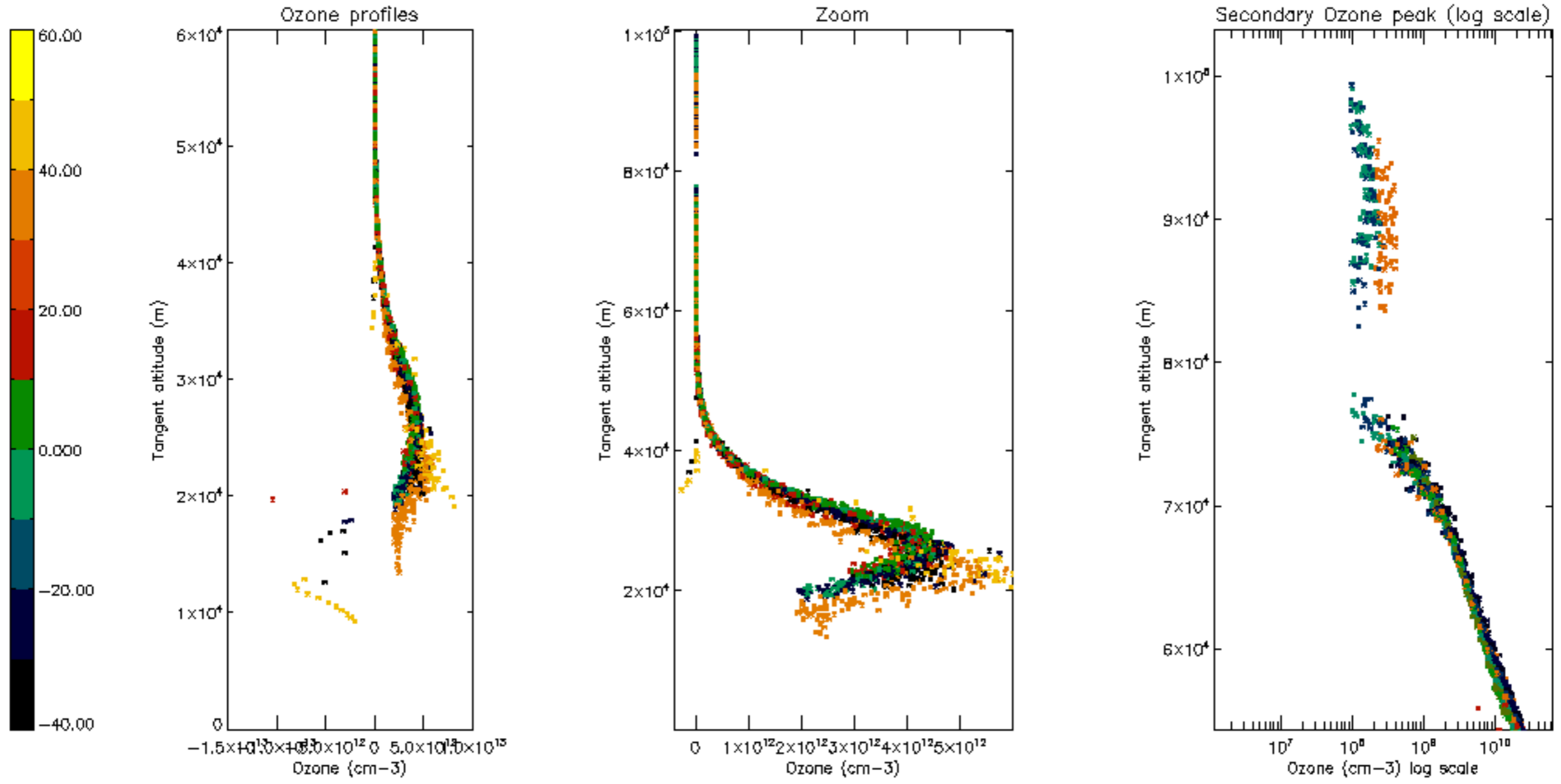


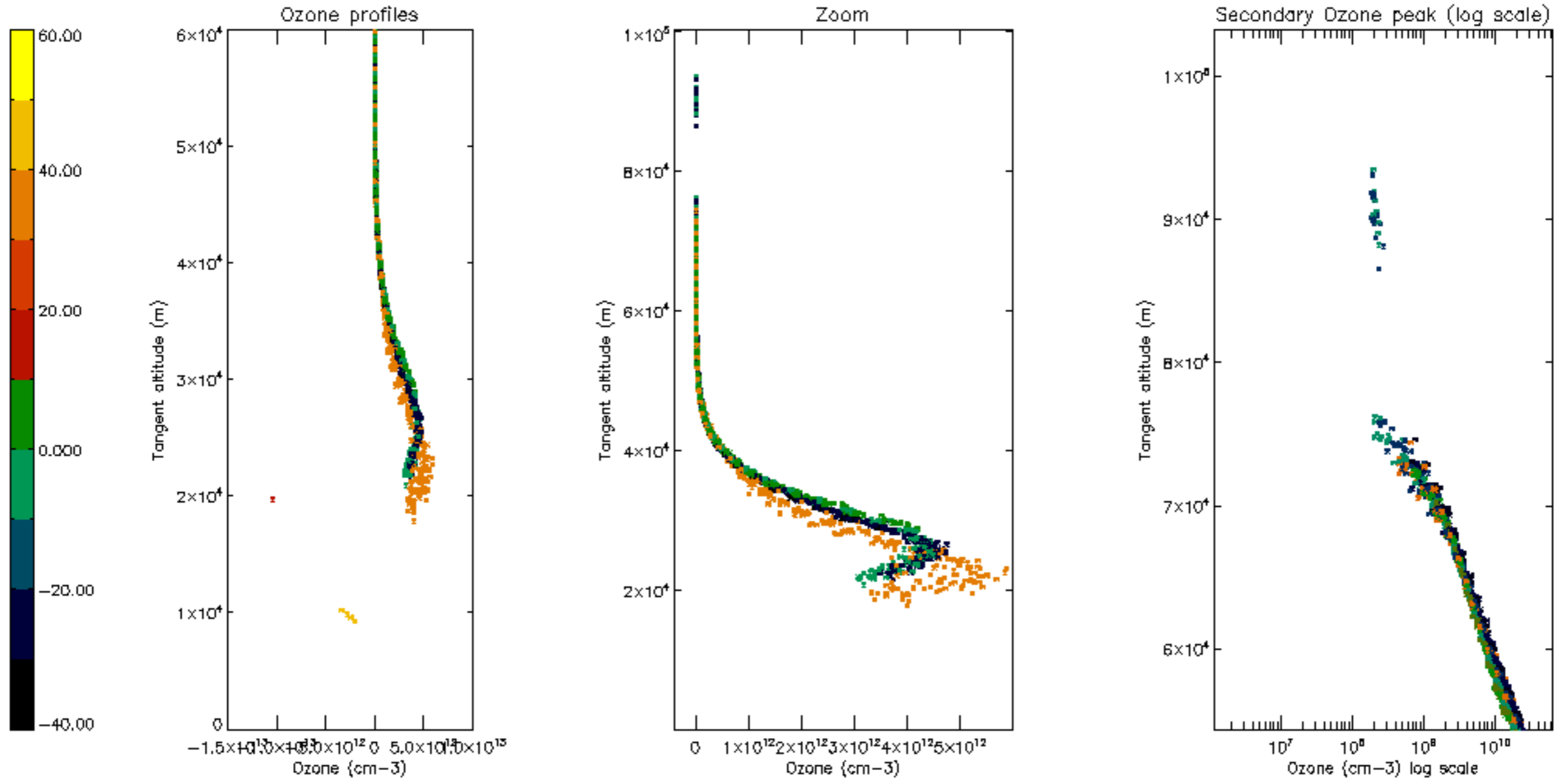
Percentage of saturation errors per profile

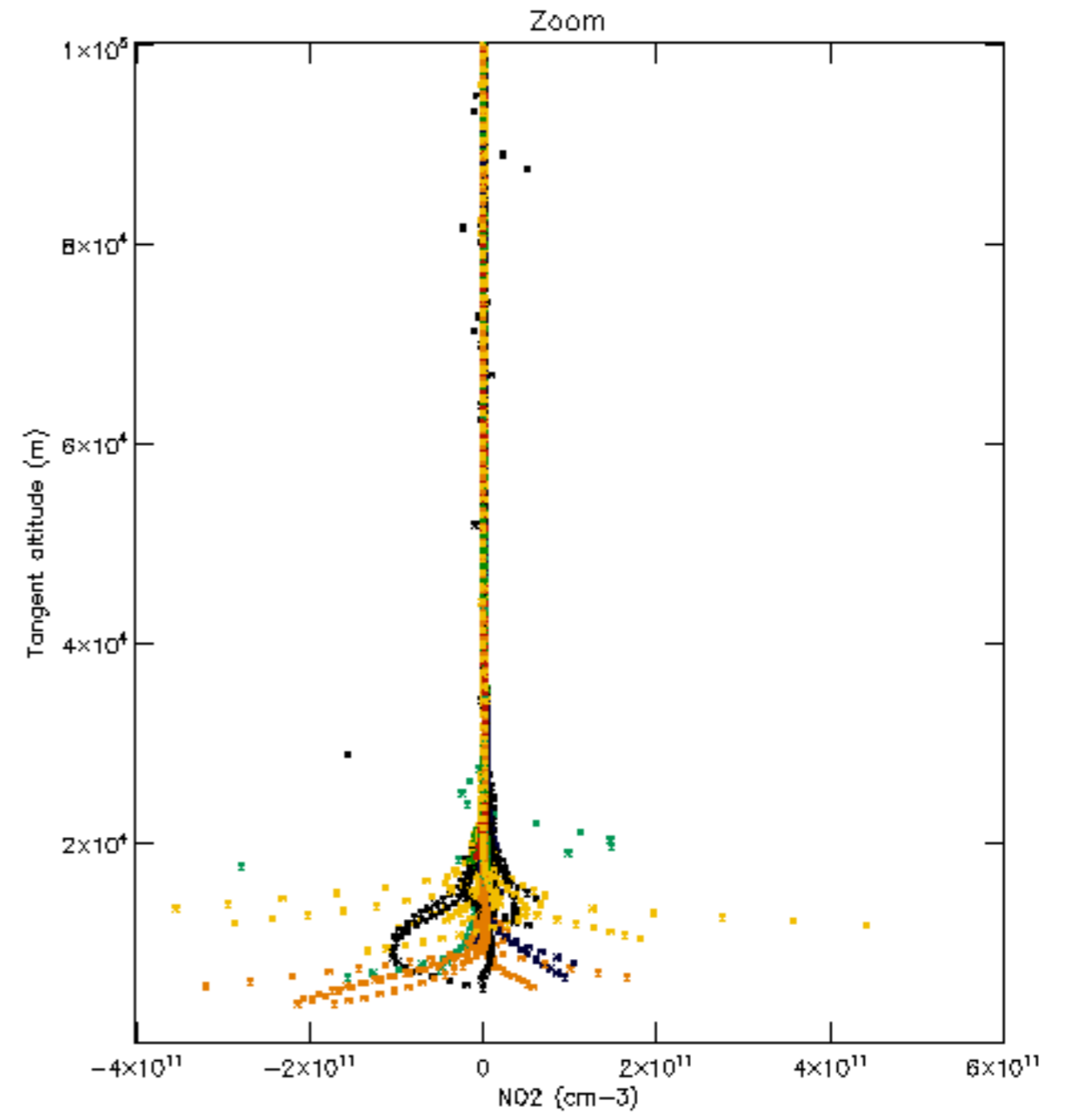
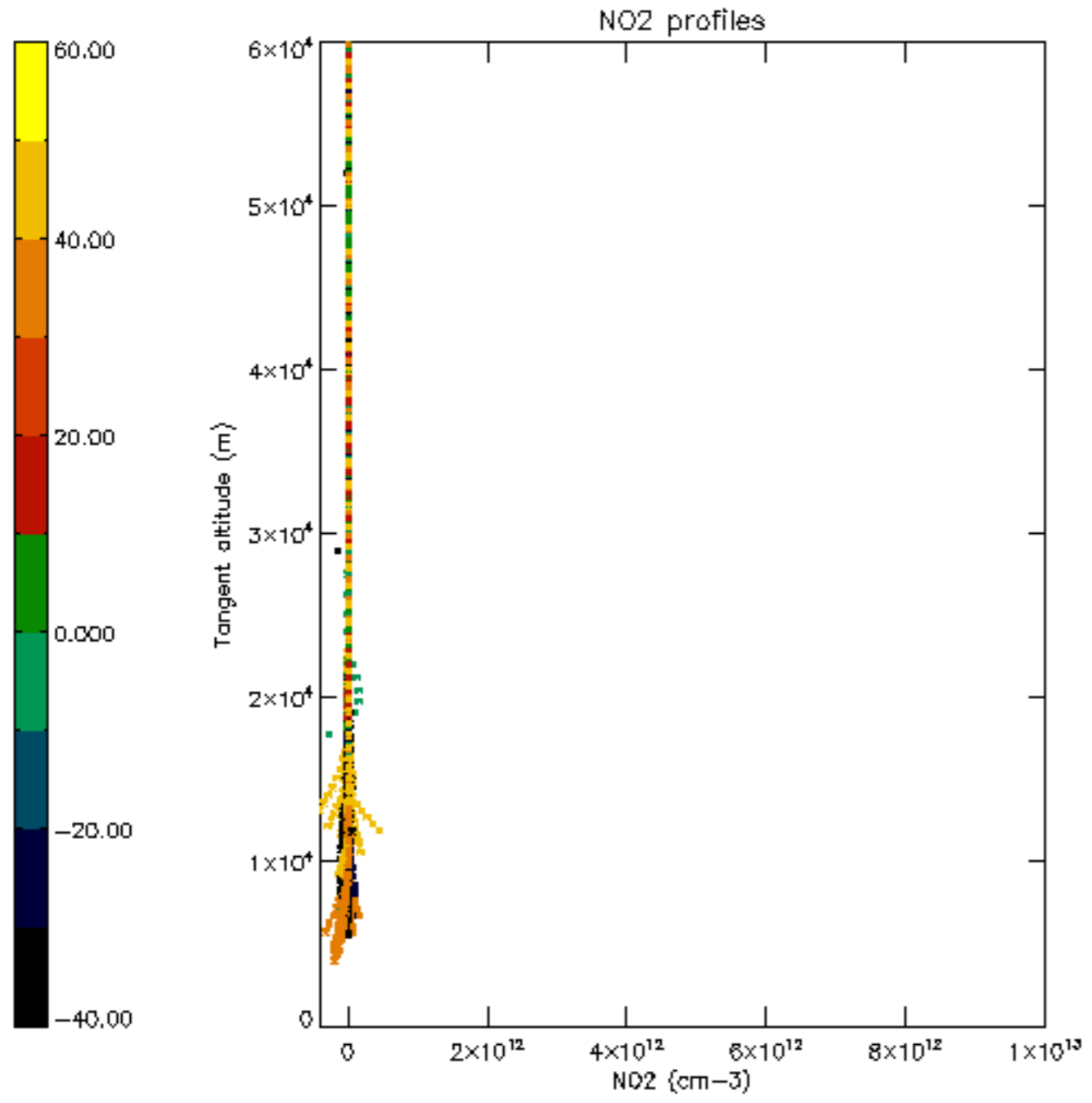


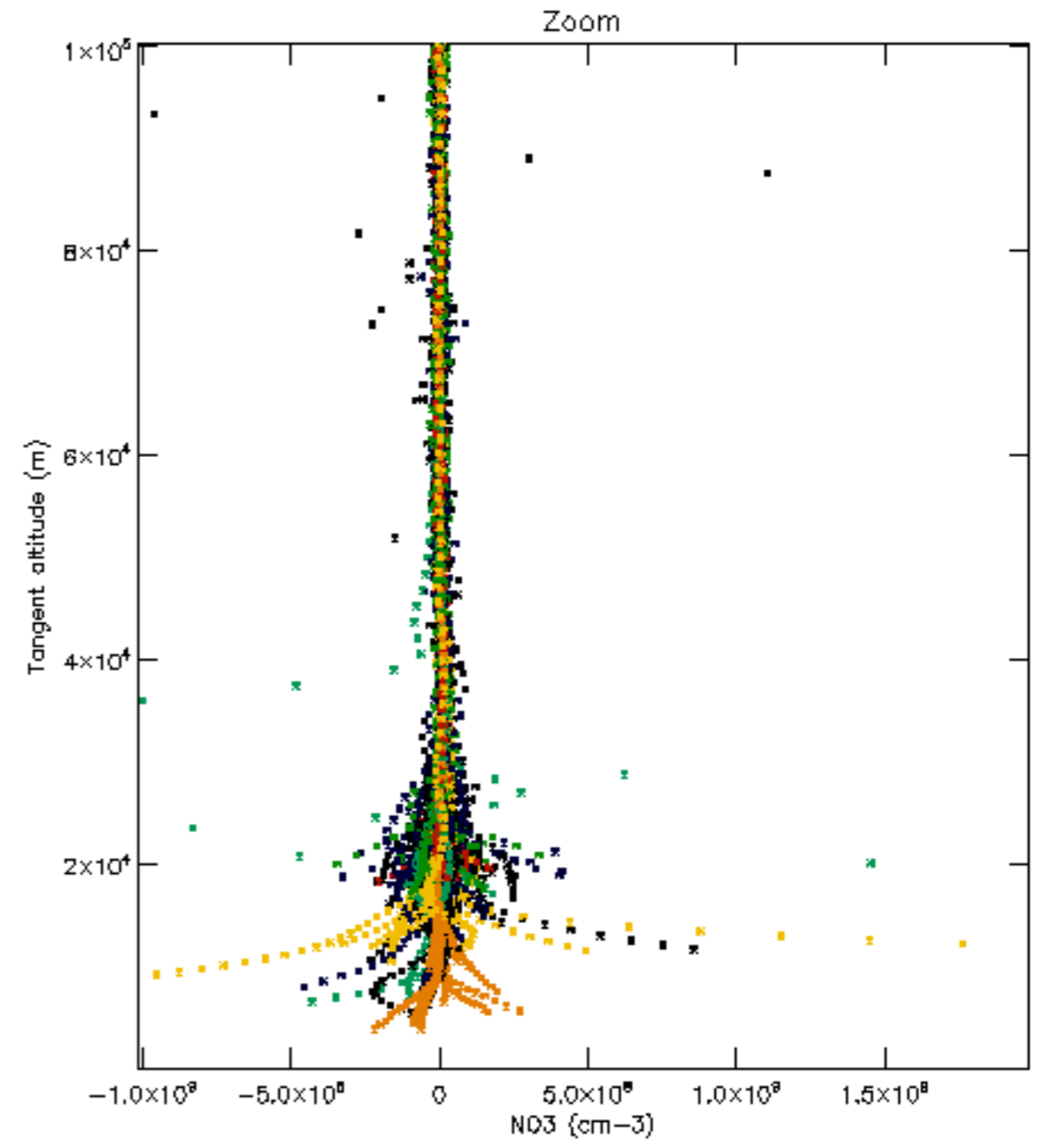
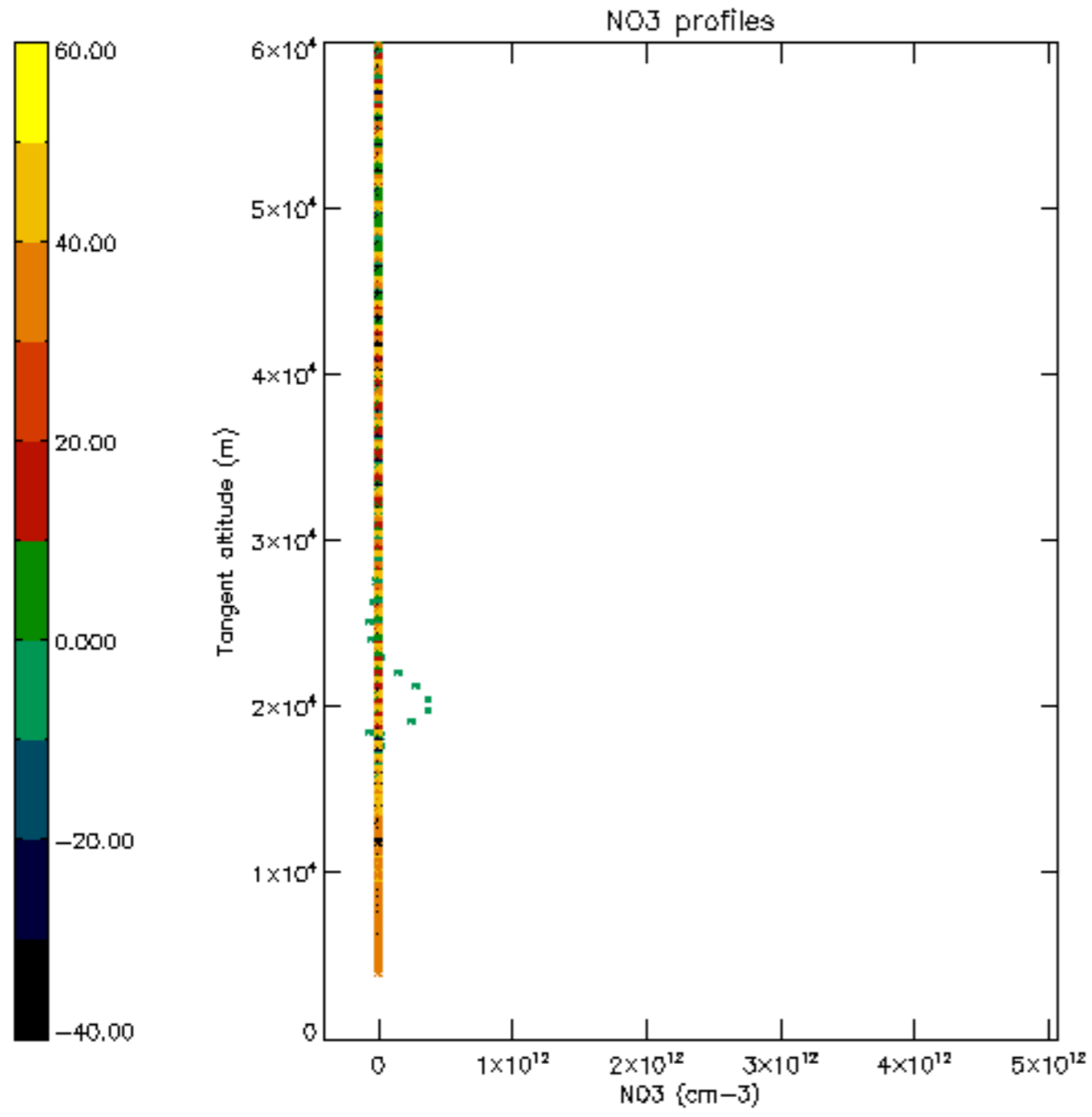


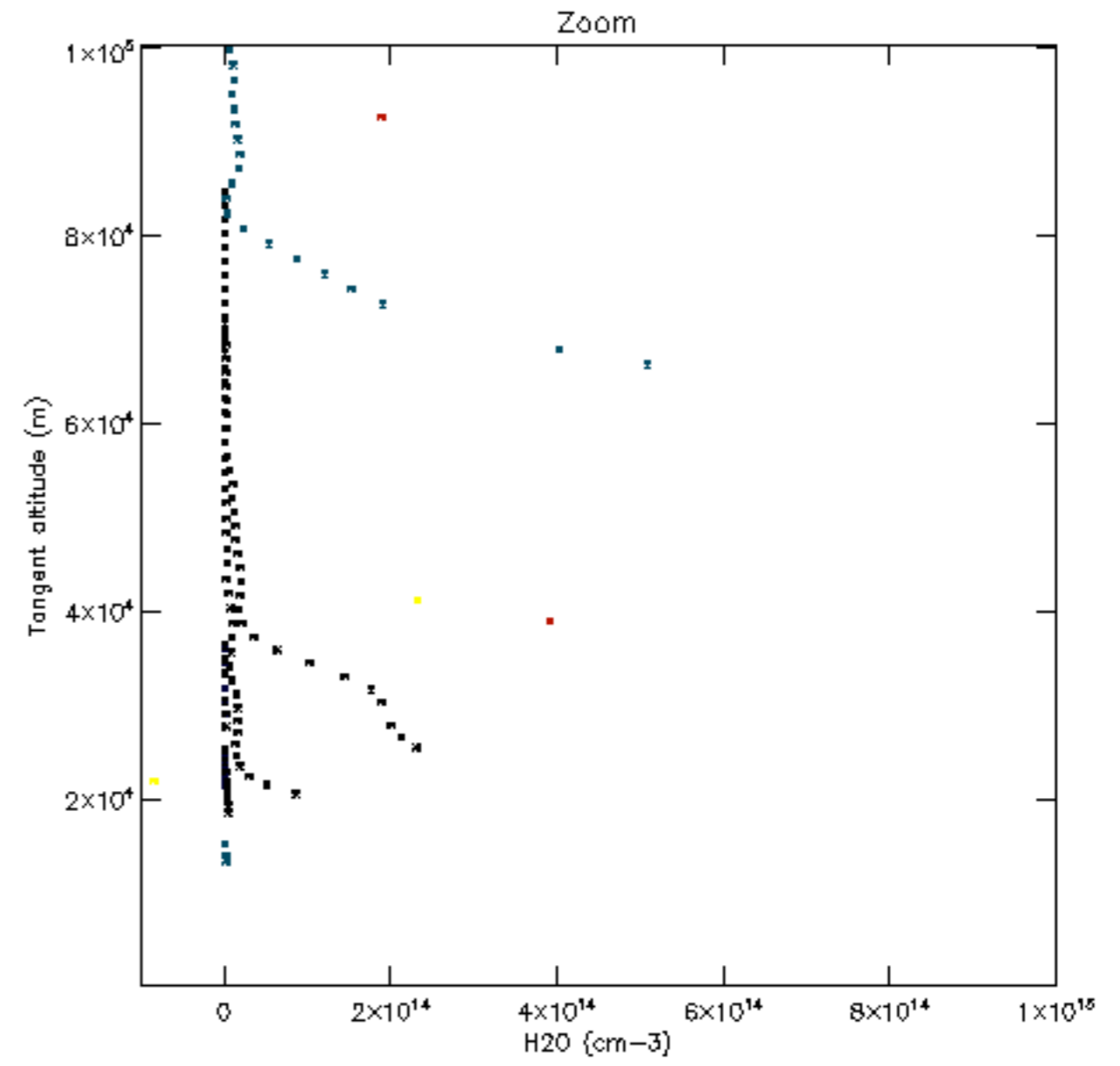
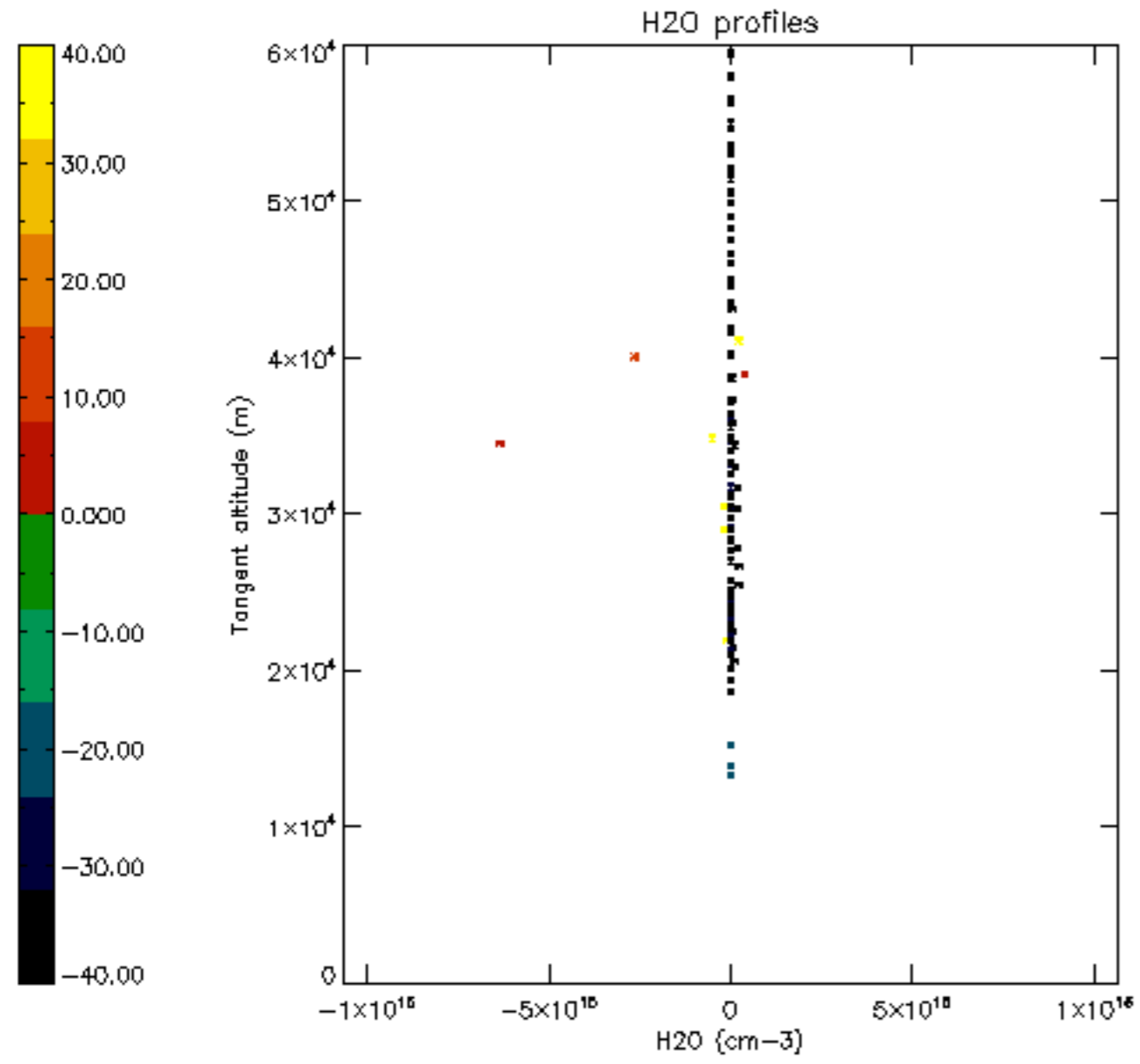


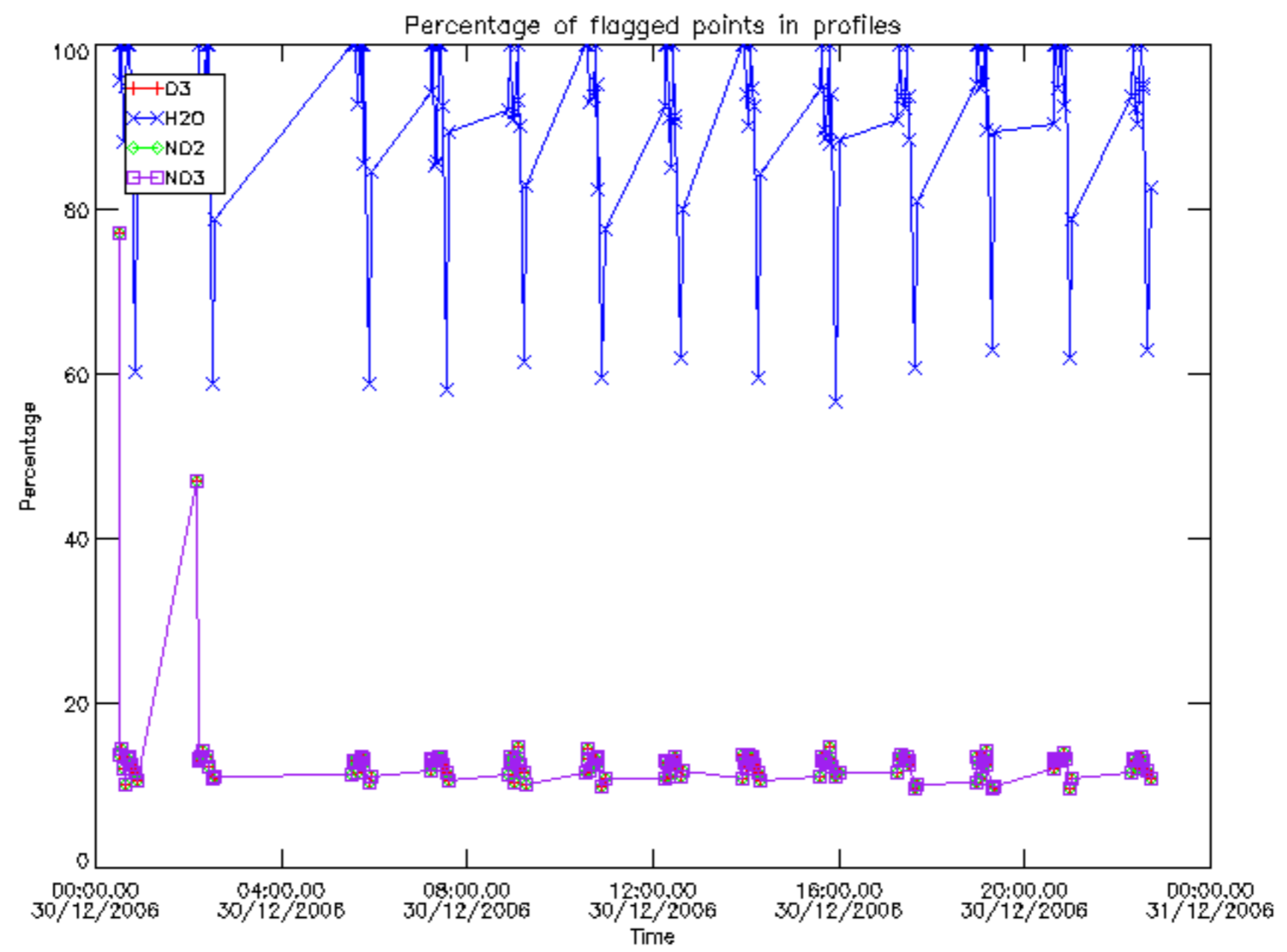




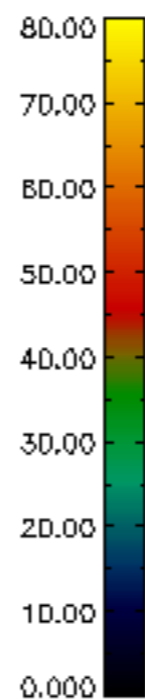
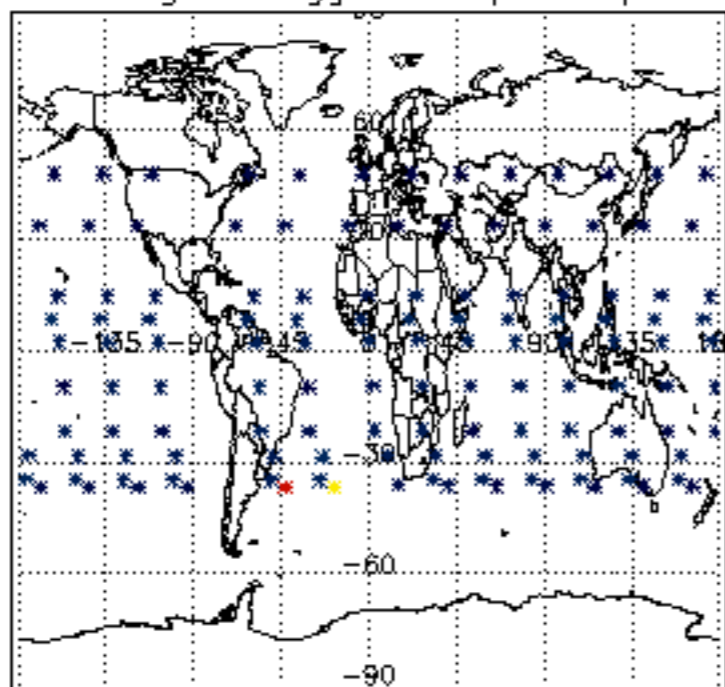




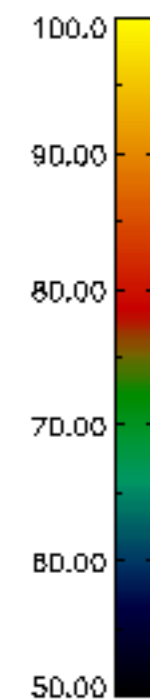
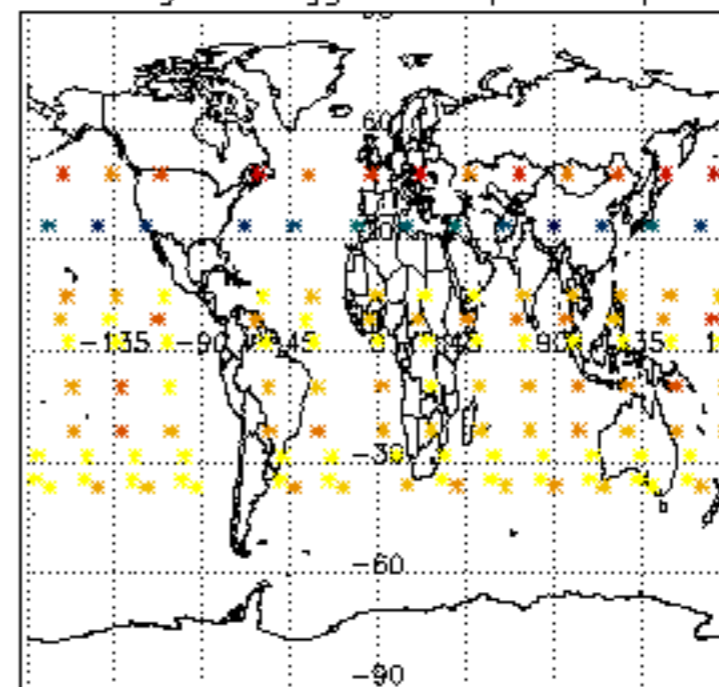




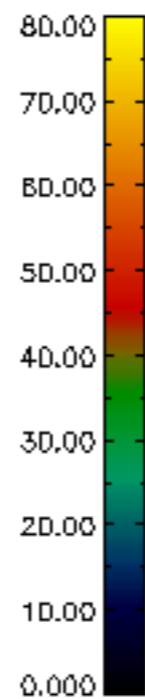
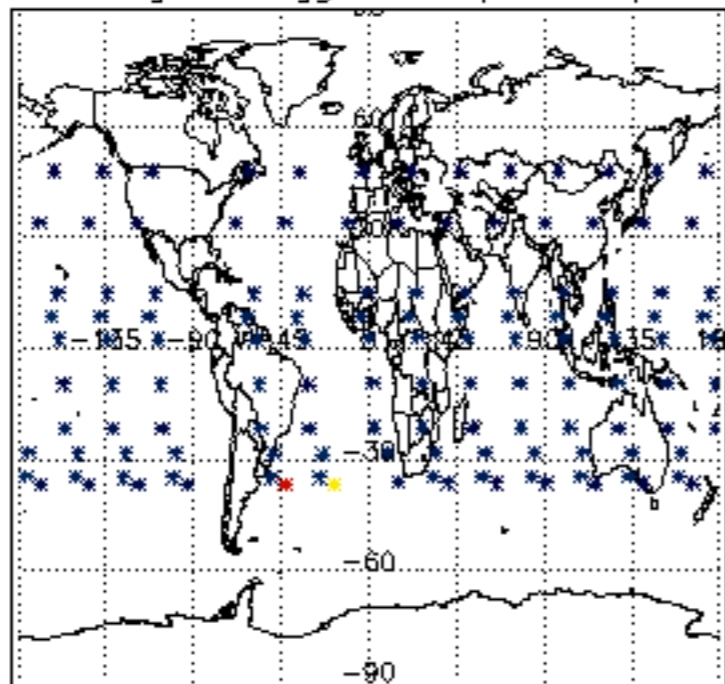
Percentage of flagged data per D3 profile



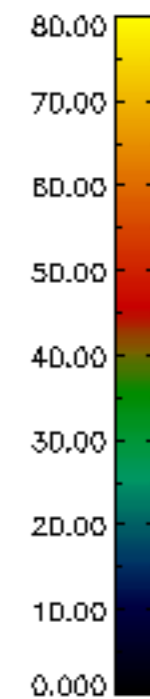
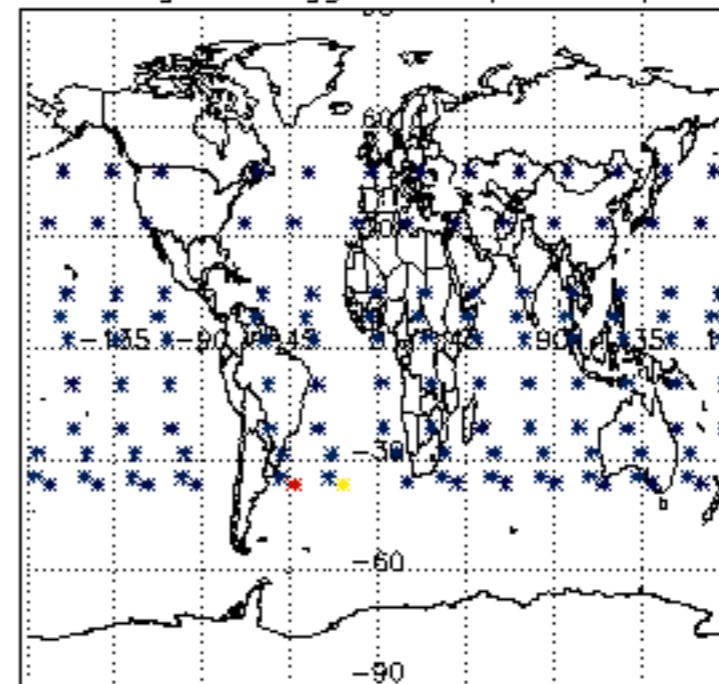
Percentage of flagged data per H2O profile

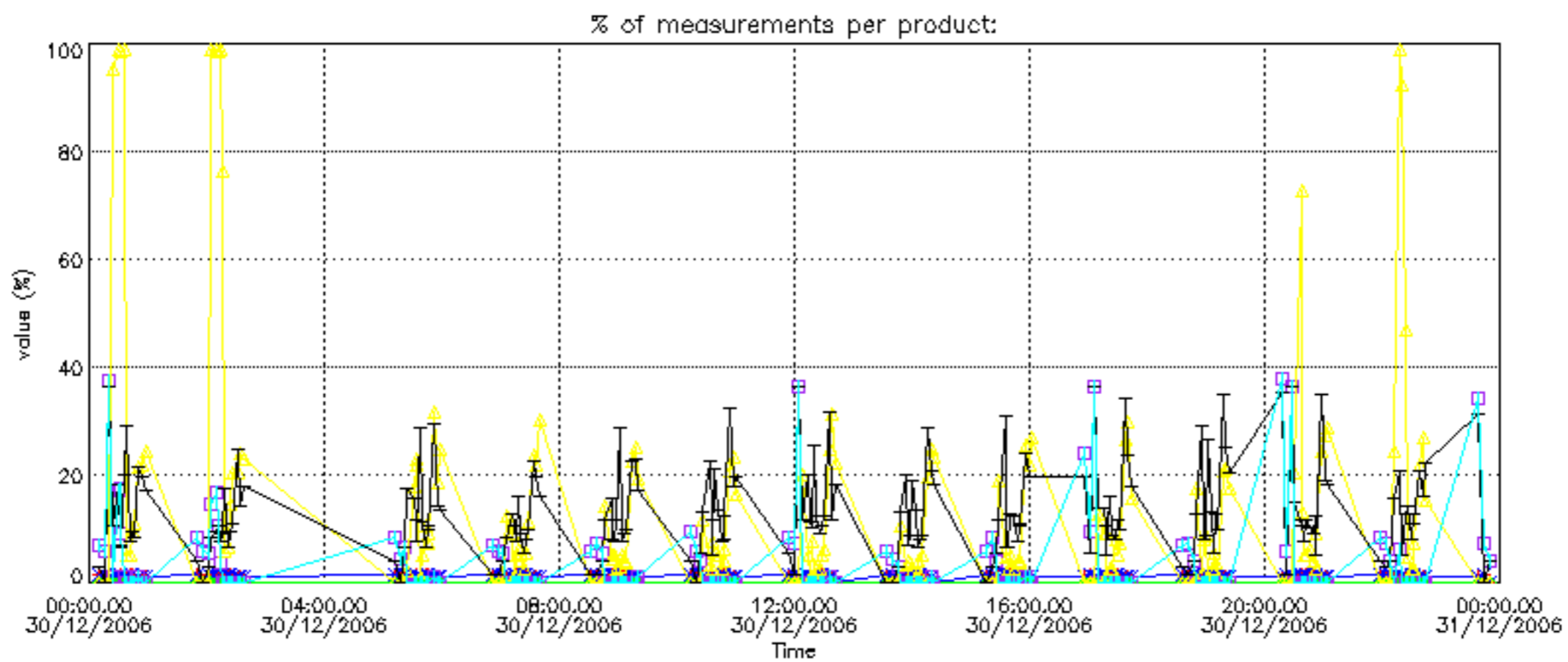


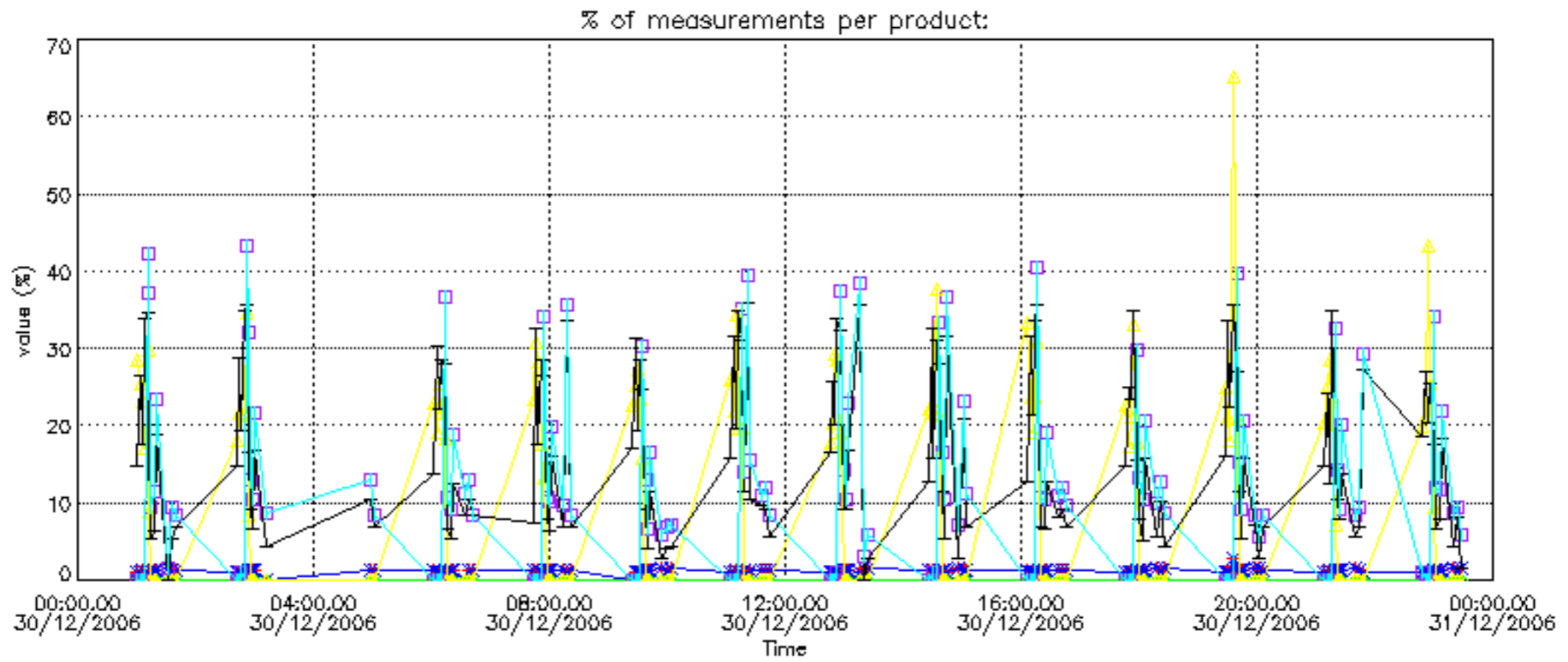
Percentage of flagged data per NO2 profile



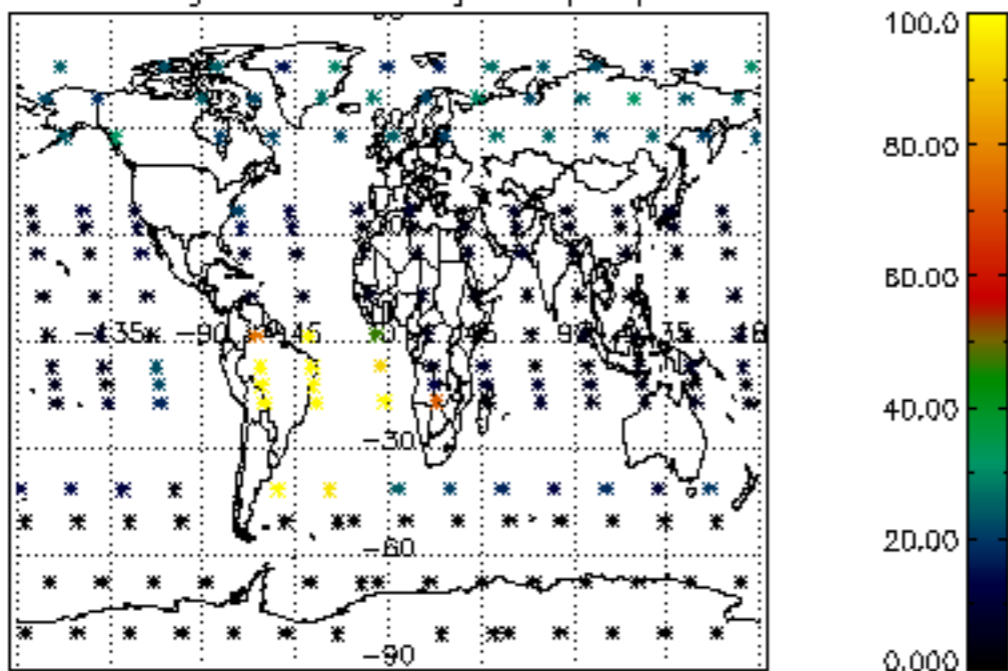
Percentage of flagged data per NO3 profile



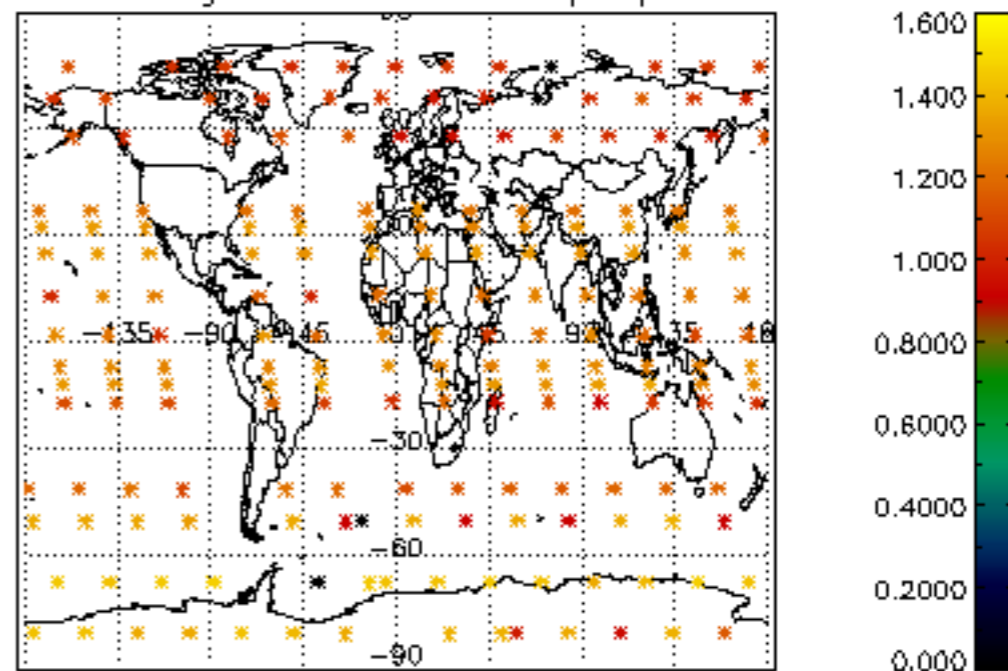




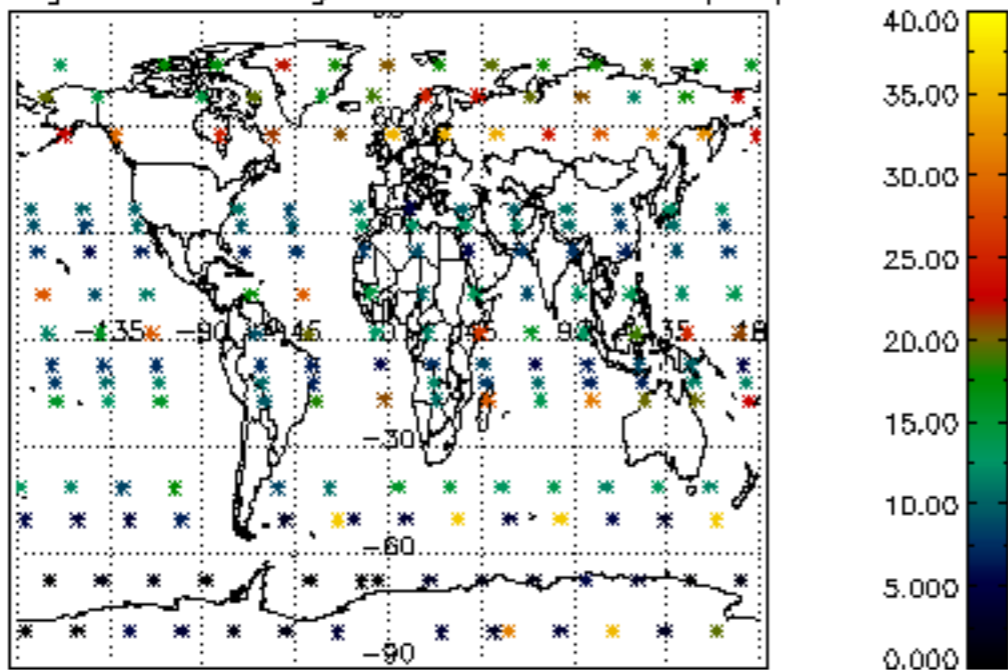
Percentage of cosmic ray hits per profile



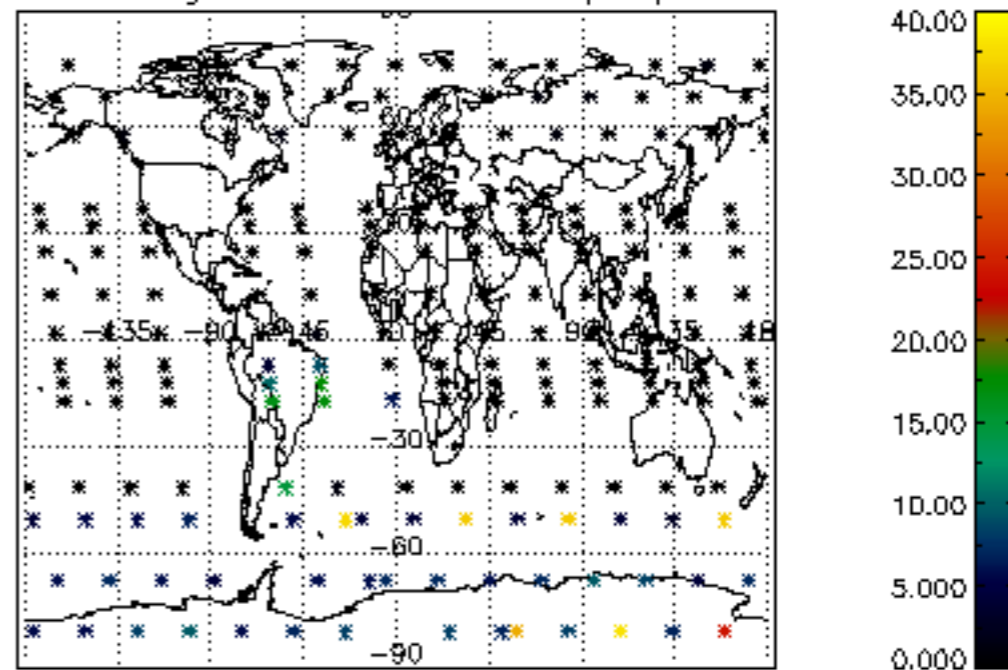
Percentage of datation errors per profile



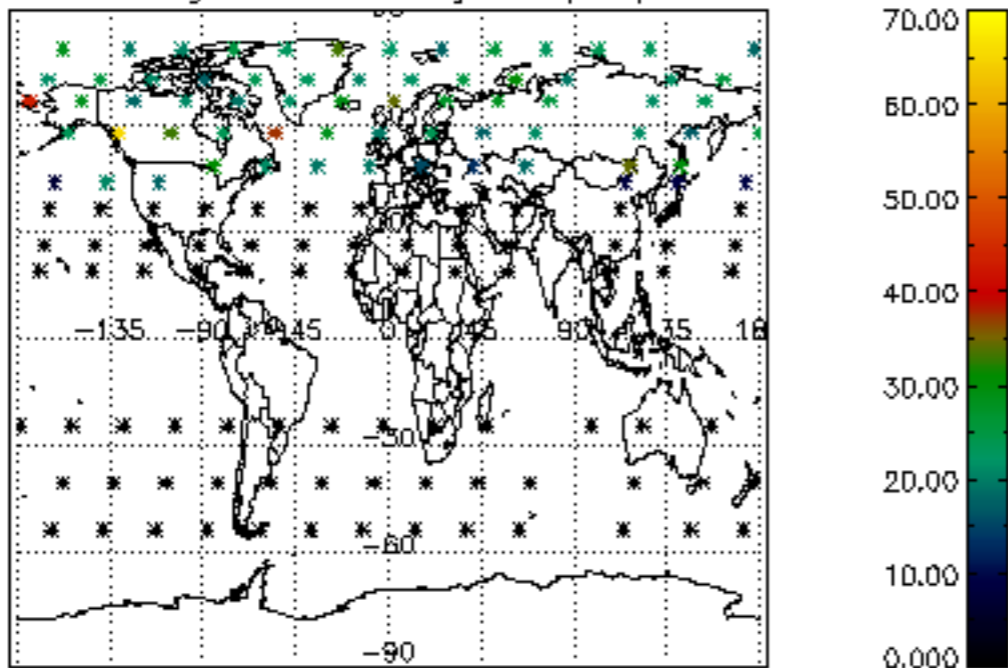
Percentage of star falling outside central band per profile



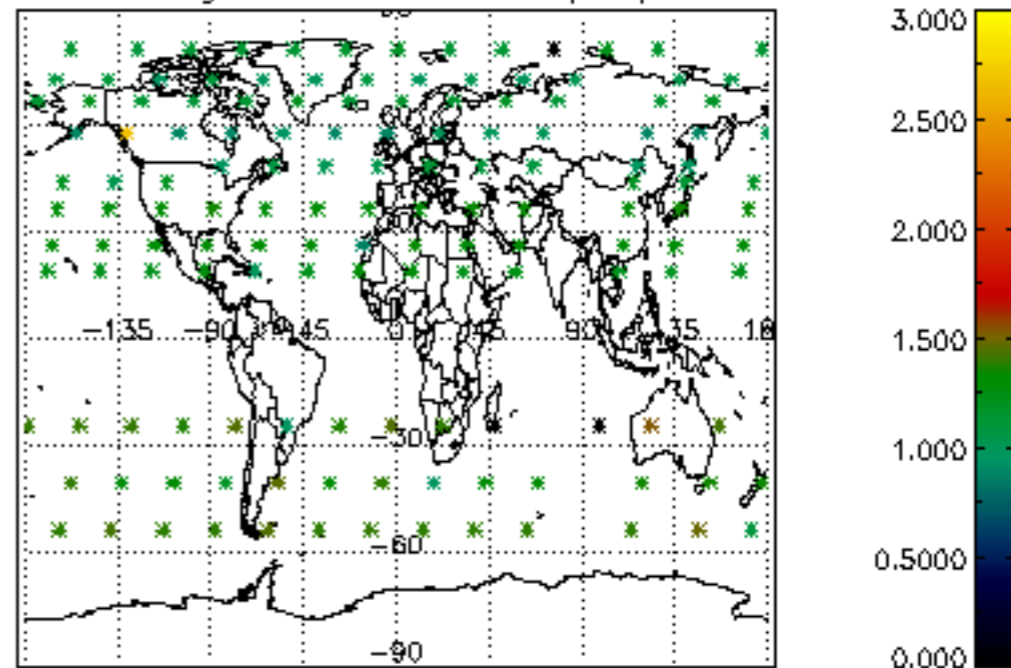
Percentage of saturation errors per profile



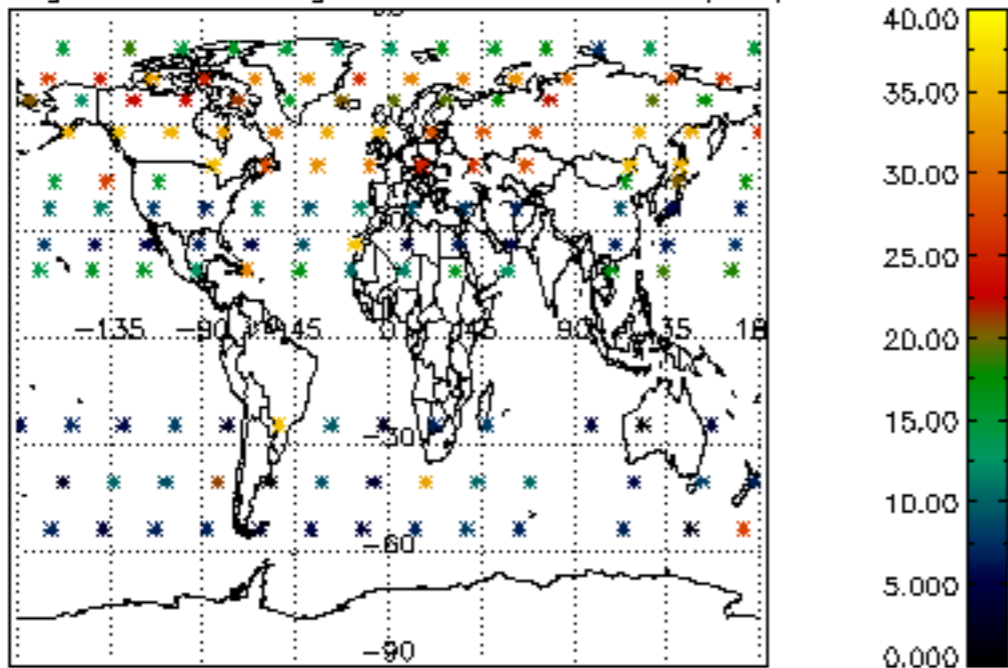
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

