

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	22APR2013 13:26:50
Data source version	GOMOS/6.01
Start time of products	06-02-2007 (06FEB2007 00:00:00)
Stop time of products	07-02-2007 (07FEB2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	393
Nb of prods with errors	0

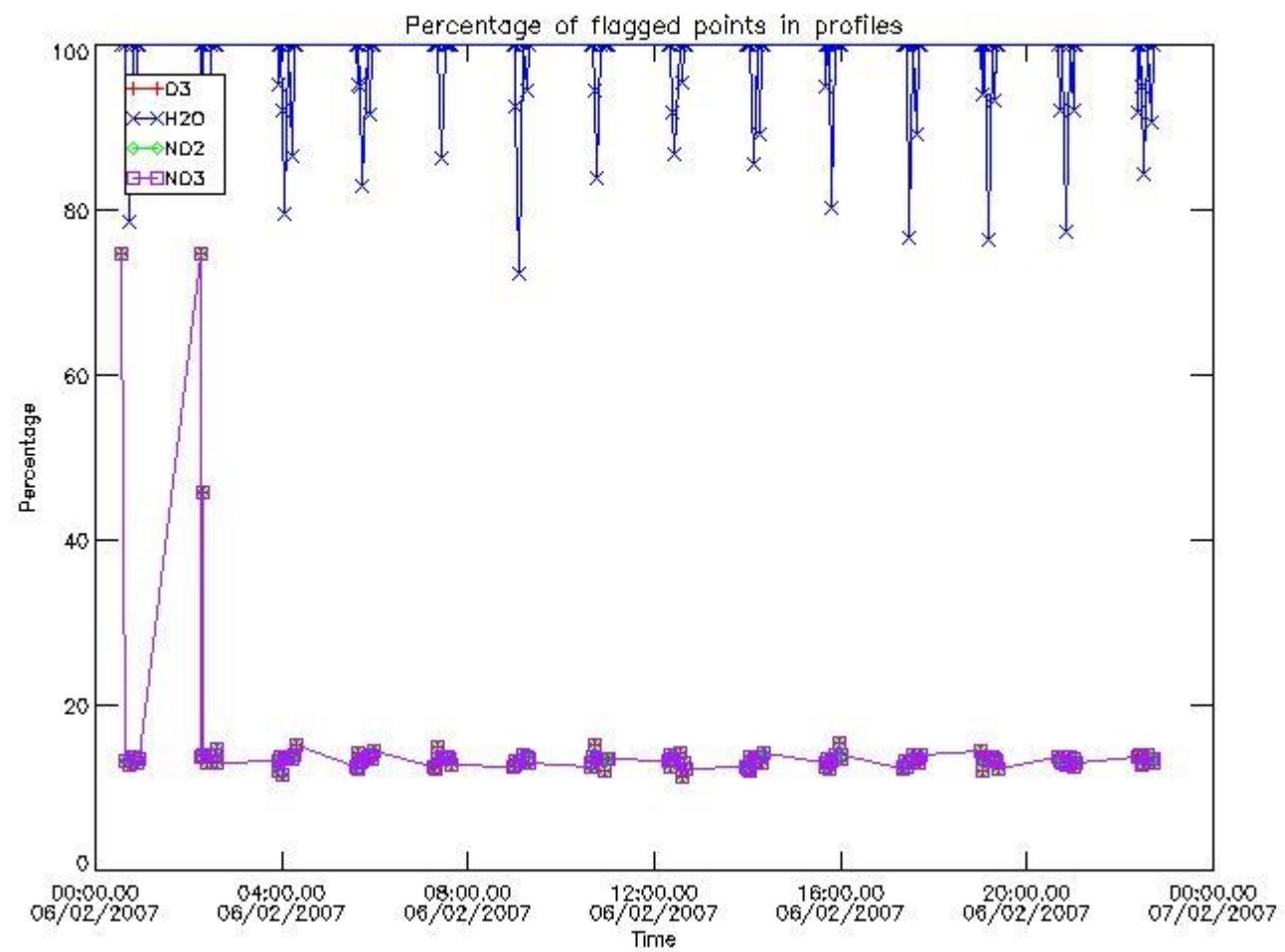
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070206_000327_000000352055_00202_25807_7411.N1	06-FEB-2007 00:03:27	Bright	34.500	89	5Alp Cep	2.4510	8000.0	69	25807	No
2	GOM_NL__2PRFIN20070206_000925_000000342055_00202_25807_7412.N1	06-FEB-2007 00:09:25	Bright	34.000	144	18Del Cyg	2.8600	11000.	68	25807	No
3	GOM_NL__2PRFIN20070206_001148_000000342055_00202_25807_7413.N1	06-FEB-2007 00:11:48	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	25807	No
4	GOM_NL__2PRFIN20070206_001830_000000332055_00202_25807_7414.N1	06-FEB-2007 00:18:30	Bright	32.500	168	17Zet Aql	2.9860	11000.	65	25807	No
5	GOM_NL__2PRFIN20070206_002947_000000422055_00202_25807_7415.N1	06-FEB-2007 00:29:47	Twilight	42.000	137	22Lam Sgr	2.8240	4400.0	84	25807	No
6	GOM_NL__2PRFIN20070206_003104_000000432055_00202_25807_7416.N1	06-FEB-2007 00:31:04	Twilight	43.000	116	19Del Sgr	2.7000	4100.0	86	25807	No
7	GOM_NL__2PRFIN20070206_003215_000000412055_00202_25807_7417.N1	06-FEB-2007 00:32:15	Twilight	40.500	38	20Eps Sgr	1.8360	11000.	81	25807	No
8	GOM_NL__2PRFIN20070206_003357_000000422055_00202_25807_7418.N1	06-FEB-2007 00:33:57	Dark	42.000	25	35Lam Sco	1.6200	28000.	84	25807	No
9	GOM_NL__2PRFIN20070206_003845_000000392055_00202_25807_7419.N1	06-FEB-2007 00:38:45	Dark	38.500	141	Bet Ara	2.8400	4600.0	77	25807	No
10	GOM_NL__2PRFIN20070206_004234_000000402055_00203_25808_7405.N1	06-FEB-2007 00:42:34	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	25808	No
11	GOM_NL__2PRFIN20070206_004812_000000372055_00203_25808_7406.N1	06-FEB-2007 00:48:12	Dark	37.000	112	Alp Mus	2.6880	26000.	74	25808	No
12	GOM_NL__2PRFIN20070206_005208_000000372055_00203_25808_7407.N1	06-FEB-2007 00:52:08	Dark	37.000	29	Bet Car	1.6720	10200.	74	25808	No
13	GOM_NL__2PRFIN20070206_005435_000000402055_00203_25808_7408.N1	06-FEB-2007 00:54:35	Dark	39.500	71	lot Car	2.2460	7700.0	79	25808	No
14	GOM_NL__2PRFIN20070206_005618_000000382055_00203_25808_7409.N1	06-FEB-2007 00:56:18	Dark	38.000	46	Del Vel	1.9540	10600.	76	25808	No
15	GOM_NL__2PRFIN20070206_005846_000000382055_00203_25808_7410.N1	06-FEB-2007 00:58:46	Straylight	37.500	34	Gam2Vel	1.7930	23000.	75	25808	No
16	GOM_NL__2PRFIN20070206_010050_000000382055_00203_25808_7411.N1	06-FEB-2007 01:00:50	Straylight	38.000	70	Zet Pup	2.2460	39000.	76	25808	No
17	GOM_NL__2PRFIN20070206_010209_000000432055_00203_25808_7412.N1	06-FEB-2007 01:02:09	Straylight	43.000	117	Pi Pup	2.7060	3800.0	86	25808	No
18	GOM_NL__2PRFIN20070206_010436_000000422055_00203_25808_7413.N1	06-FEB-2007 01:04:36	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	25808	No
19	GOM_NL__2PRFIN20070206_010559_000000372055_00203_25808_7414.N1	06-FEB-2007 01:05:59	Straylight	36.500	179	24Omi2CMa	3.0320	24000.	73	25808	No
20	GOM_NL__2PRFIN20070206_010809_000000422055_00203_25808_7415.N1	06-FEB-2007 01:08:09	Straylight	42.000	1	9Alp CMa	-1.4400	11000.	84	25808	No
21	GOM_NL__2PRFIN20070206_011346_000000522055_00203_25808_7416.N1	06-FEB-2007 01:13:46	Twilight_and_stray	52.000	8	10Alp CMi	0.40000	6500.0	104	25808	No
22	GOM_NL__2PRFIN20070206_011722_000000362055_00203_25808_7417.N1	06-FEB-2007 01:17:22	Bright	36.000	44	24Gam Gem	1.9280	11000.	72	25808	No
23	GOM_NL__2PRFIN20070206_011915_000000382055_00203_25808_7418.N1	06-FEB-2007 01:19:15	Bright	38.000	151	13Mu Gem	2.8900	3000.0	76	25808	No
24	GOM_NL__2PRFIN20070206_012336_000000362055_00203_25808_7419.N1	06-FEB-2007 01:23:36	Bright	36.000	107	37The Aur	2.6490	11000.	72	25808	No
25	GOM_NL__2PRFIN20070206_012539_000000352055_00203_25808_7420.N1	06-FEB-2007 01:25:39	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	25808	No
26	GOM_NL__2PRFIN20070206_013739_000000352055_00203_25808_7421.N1	06-FEB-2007 01:37:39	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	25808	No
27	GOM_NL__2PRFIN20070206_014404_000000472055_00203_25808_7422.N1	06-FEB-2007 01:44:04	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	25808	No
28	GOM_NL__2PRFIN20070206_015001_000000342055_00203_25808_7423.N1	06-FEB-2007 01:50:01	Bright	34.000	144	18Del Cyg	2.8600	11000.	68	25808	No
29	GOM_NL__2PRFIN20070206_015224_000000342055_00203_25808_7424.N1	06-FEB-2007 01:52:24	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	25808	No
30	GOM_NL__2PRFIN20070206_015906_000000322055_00203_25808_7425.N1	06-FEB-2007 01:59:06	Bright	32.000	168	17Zet Aql	2.9860	11000.	64	25808	No
31	GOM_NL__2PRFIN20070206_021023_000000412055_00203_25808_7426.N1	06-FEB-2007 02:10:23	Twilight	40.500	137	22Lam Sgr	2.8240	4400.0	81	25808	No
32	GOM_NL__2PRFIN20070206_021141_000000442055_00203_25808_7427.N1	06-FEB-2007 02:11:41	Twilight	43.500	116	19Del Sgr	2.7000	4100.0	87	25808	No
33	GOM_NL__2PRFIN20070206_021252_000000392055_00203_25808_7428.N1	06-FEB-2007 02:12:52	Twilight	39.000	38	20Eps Sgr	1.8360	11000.	78	25808	No
34	GOM_NL__2PRFIN20070206_021433_000000382055_00203_25808_7429.N1	06-FEB-2007 02:14:33	Dark	38.000	25	35Lam Sco	1.6200	28000.	76	25808	No
35	GOM_NL__2PRFIN20070206_021558_000000372055_00203_25808_7430.N1	06-FEB-2007 02:15:58	Dark	37.000	40	The Sco	1.8590	7100.0	74	25808	No
36	GOM_NL__2PRFIN20070206_021750_000000372055_00203_25808_7431.N1	06-FEB-2007 02:17:50	Dark	36.500	147	Alp Ara	2.8770	26000.	73	25808	No
37	GOM_NL__2PRFIN20070206_021921_000000372055_00203_25808_7432.N1	06-FEB-2007 02:19:21	Dark	36.500	141	Bet Ara	2.8400	4600.0	73	25808	No
38	GOM_NL__2PRFIN20070206_022310_000000402055_00204_25809_7430.N1	06-FEB-2007 02:23:10	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	25809	No
39	GOM_NL__2PRFIN20070206_022848_000000372055_00204_25809_7431.N1	06-FEB-2007 02:28:48	Dark	36.500	112	Alp Mus	2.6880	26000.	73	25809	No
40	GOM_NL__2PRFIN20070206_023244_000000372055_00204_25809_7432.N1	06-FEB-2007 02:32:44	Dark	36.500	29	Bet Car	1.6720	10200.	73	25809	No
41	GOM_NL__2PRFIN20070206_023512_000000382055_00204_25809_7433.N1	06-FEB-2007 02:35:12	Dark	38.000	71	lot Car	2.2460	7700.0	76	25809	No
42	GOM_NL__2PRFIN20070206_023654_000000392055_00204_25809_7434.N1	06-FEB-2007 02:36:54	Dark	39.000	46	Del Vel	1.9540	10600.	78	25809	No

3. Quality information per product

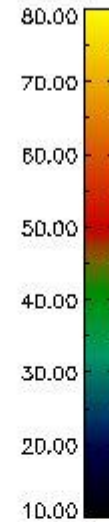
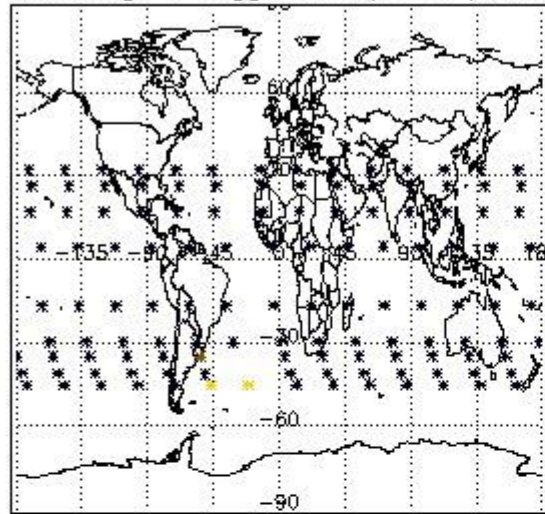
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

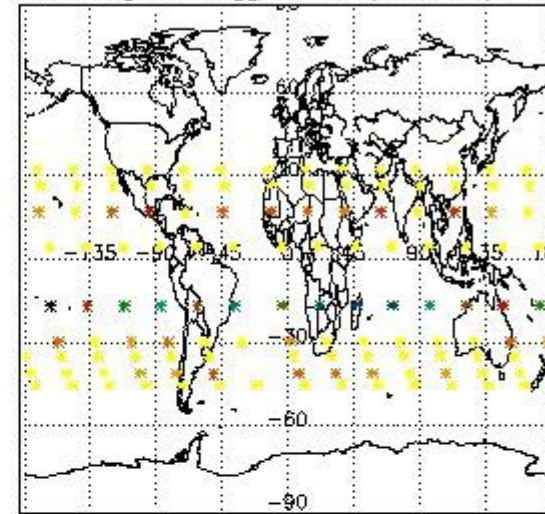


3.2 Plot quality information per product (world map)

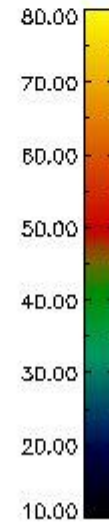
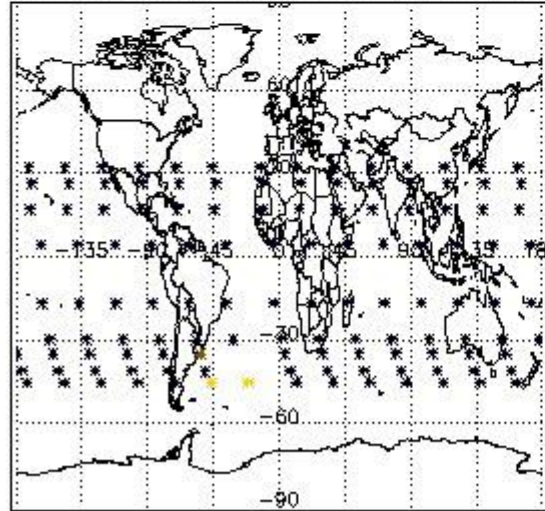
Percentage of flagged data per O3 profile



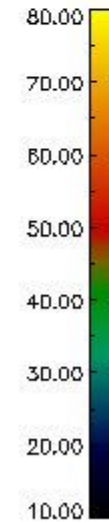
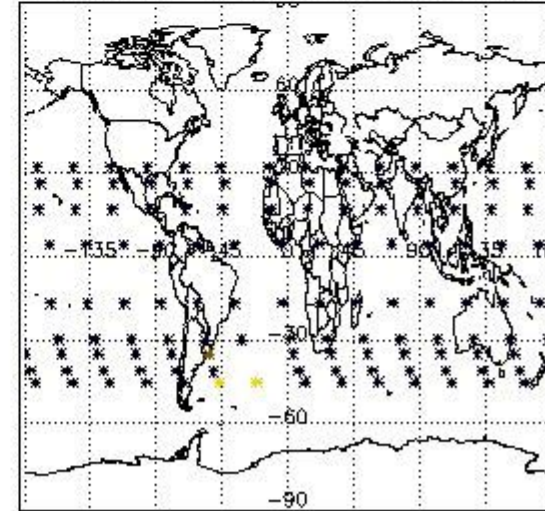
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

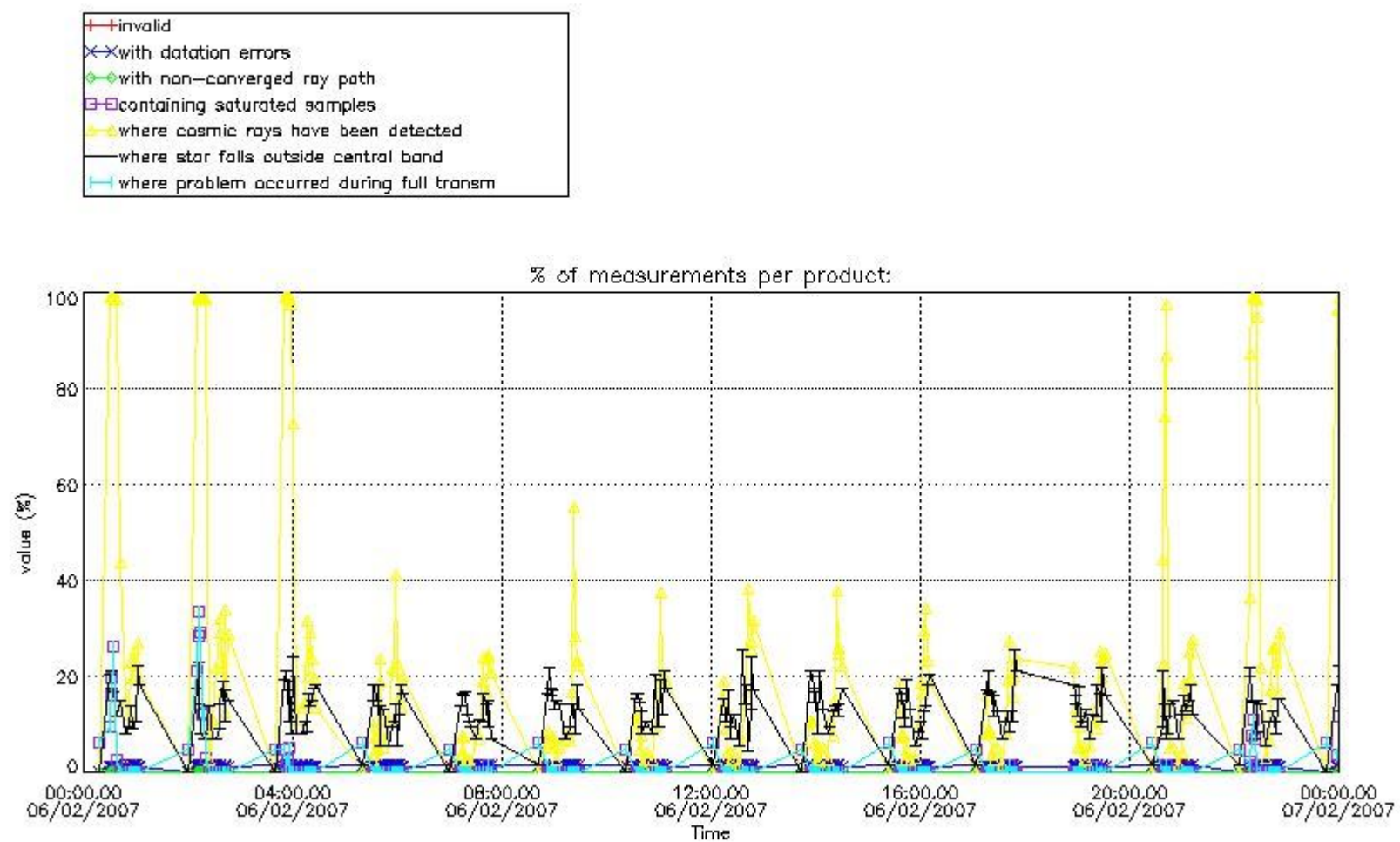


4. Level 1 quality information per product

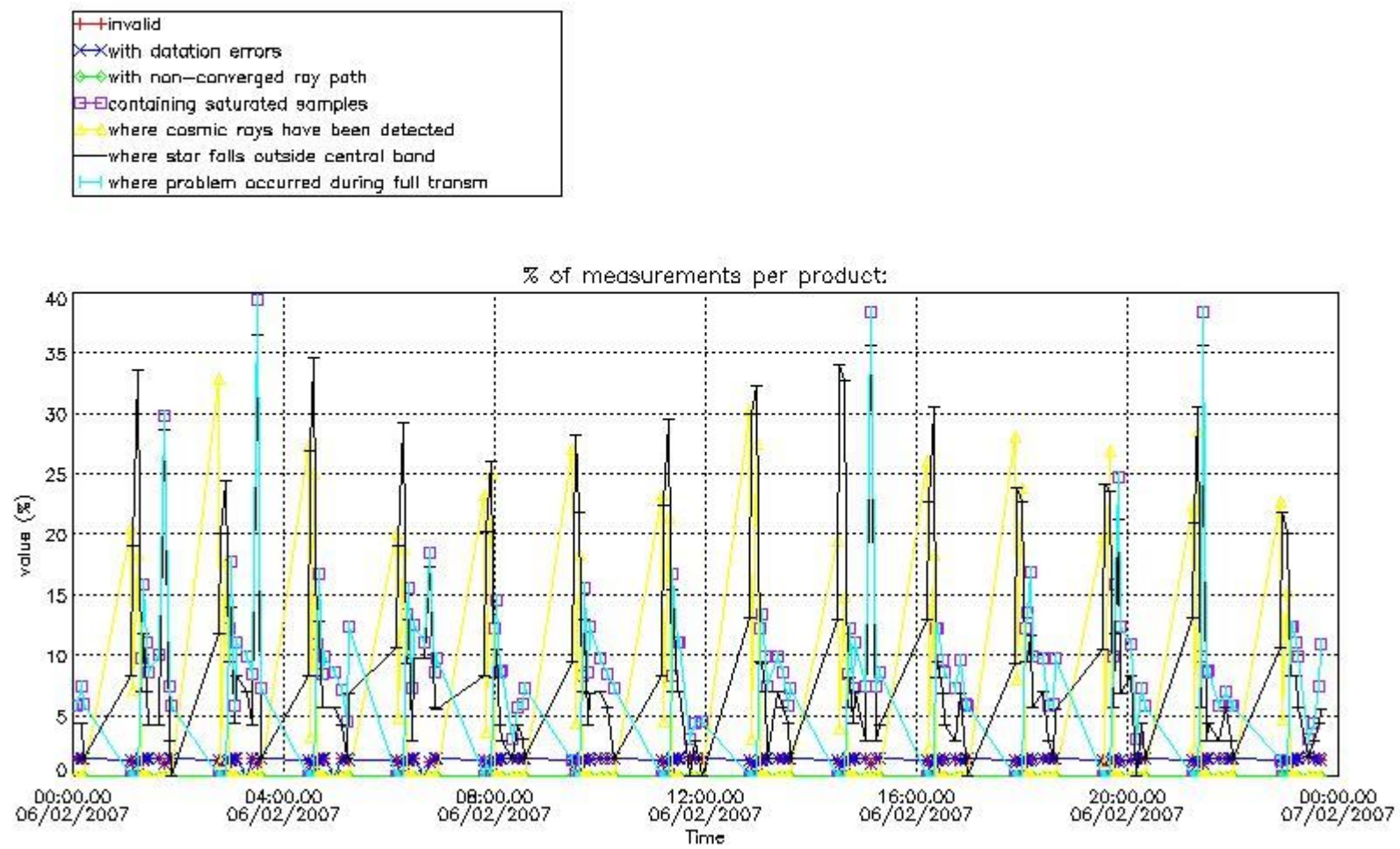
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

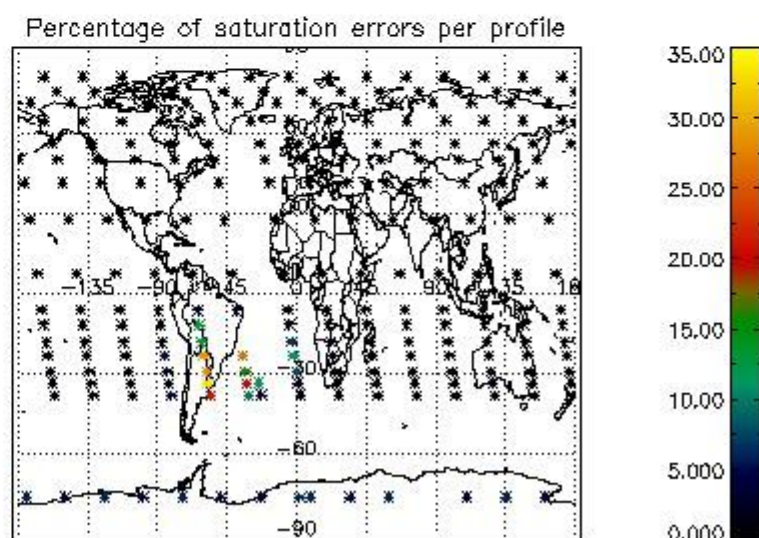
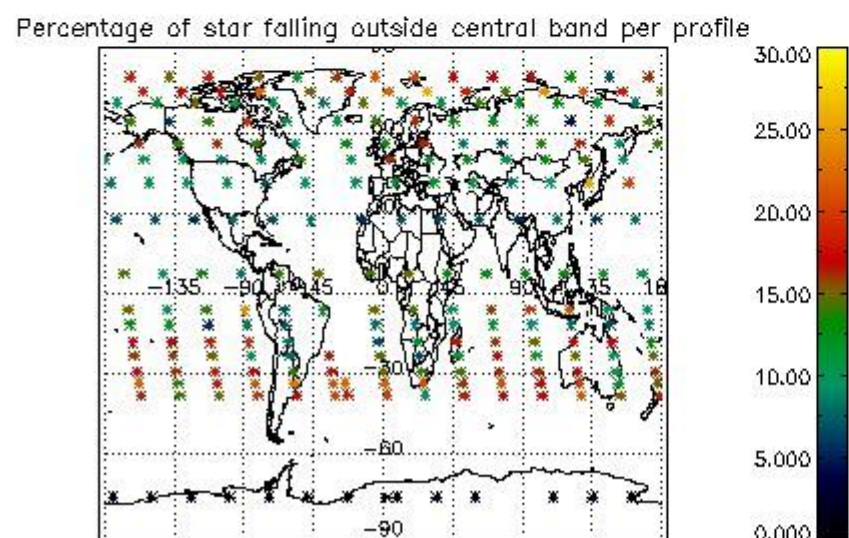
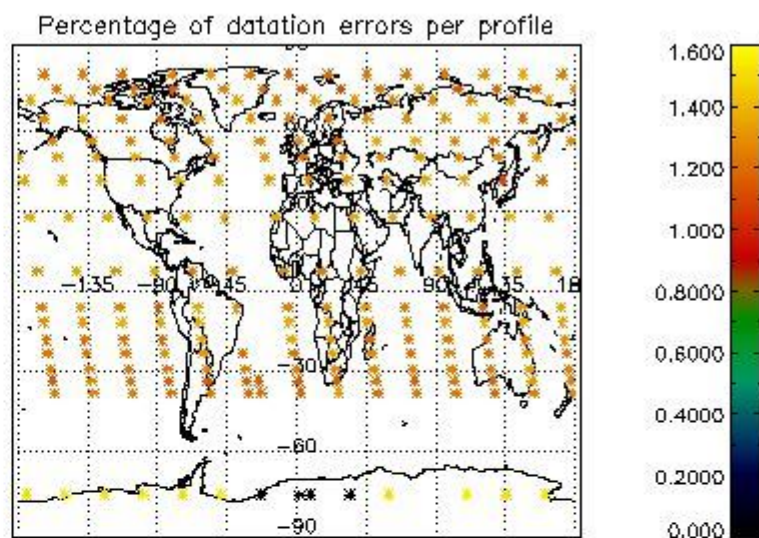
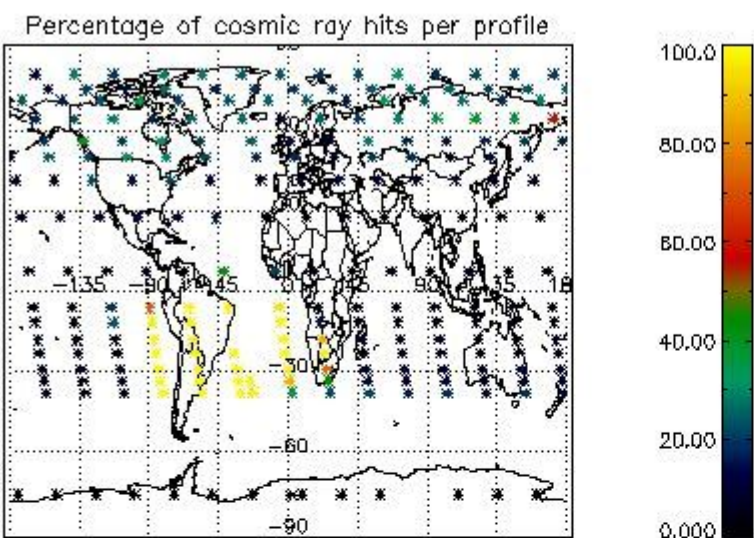


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

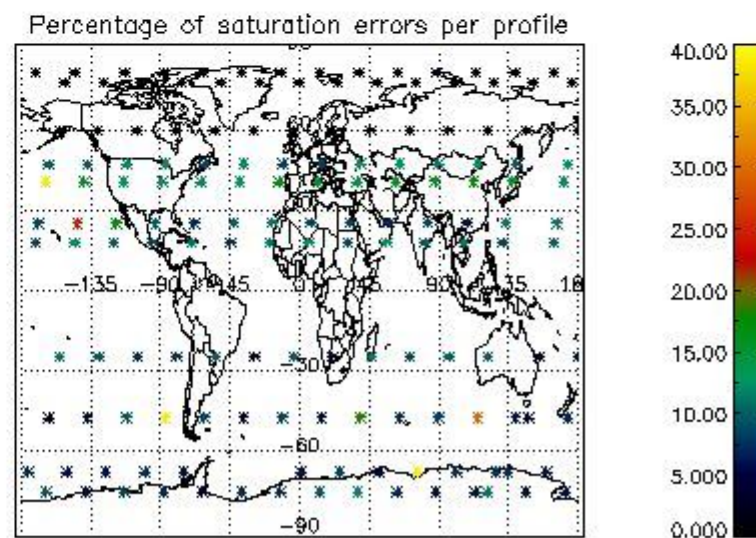
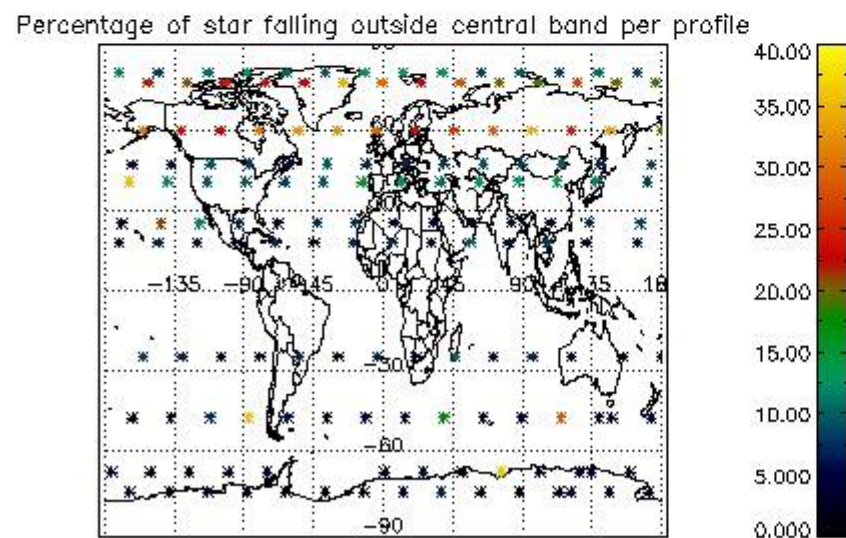
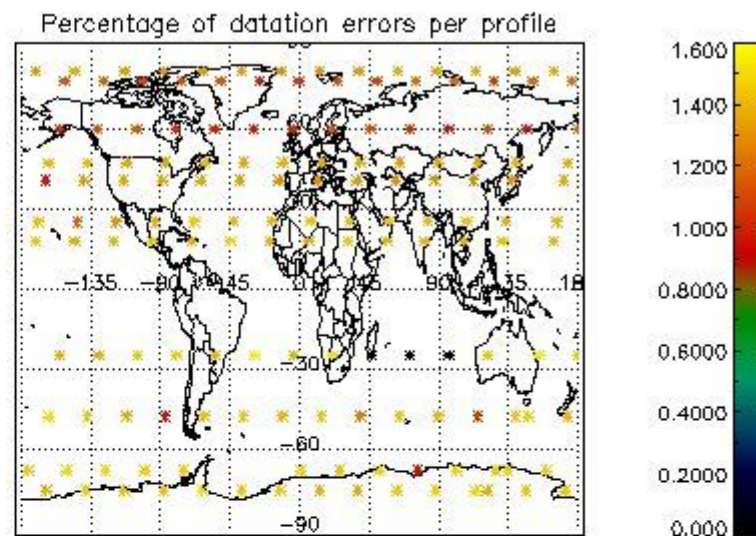
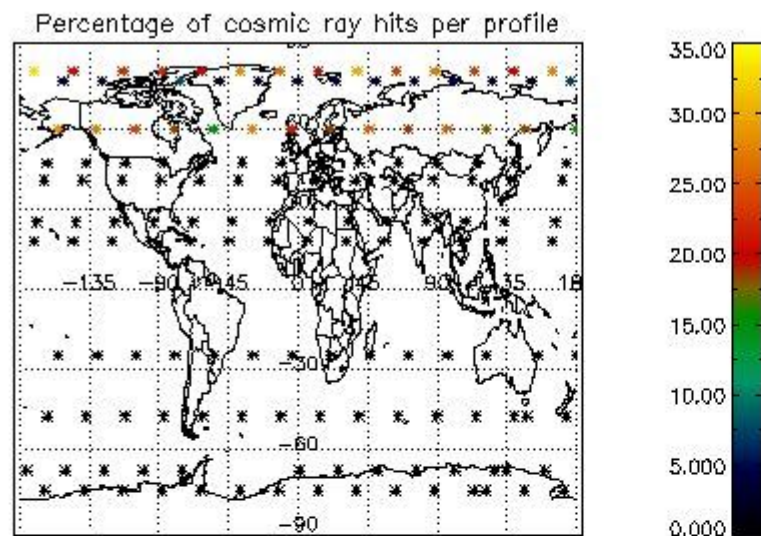


4.2 Plot quality information per product coming from level 1b processing (world map)

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

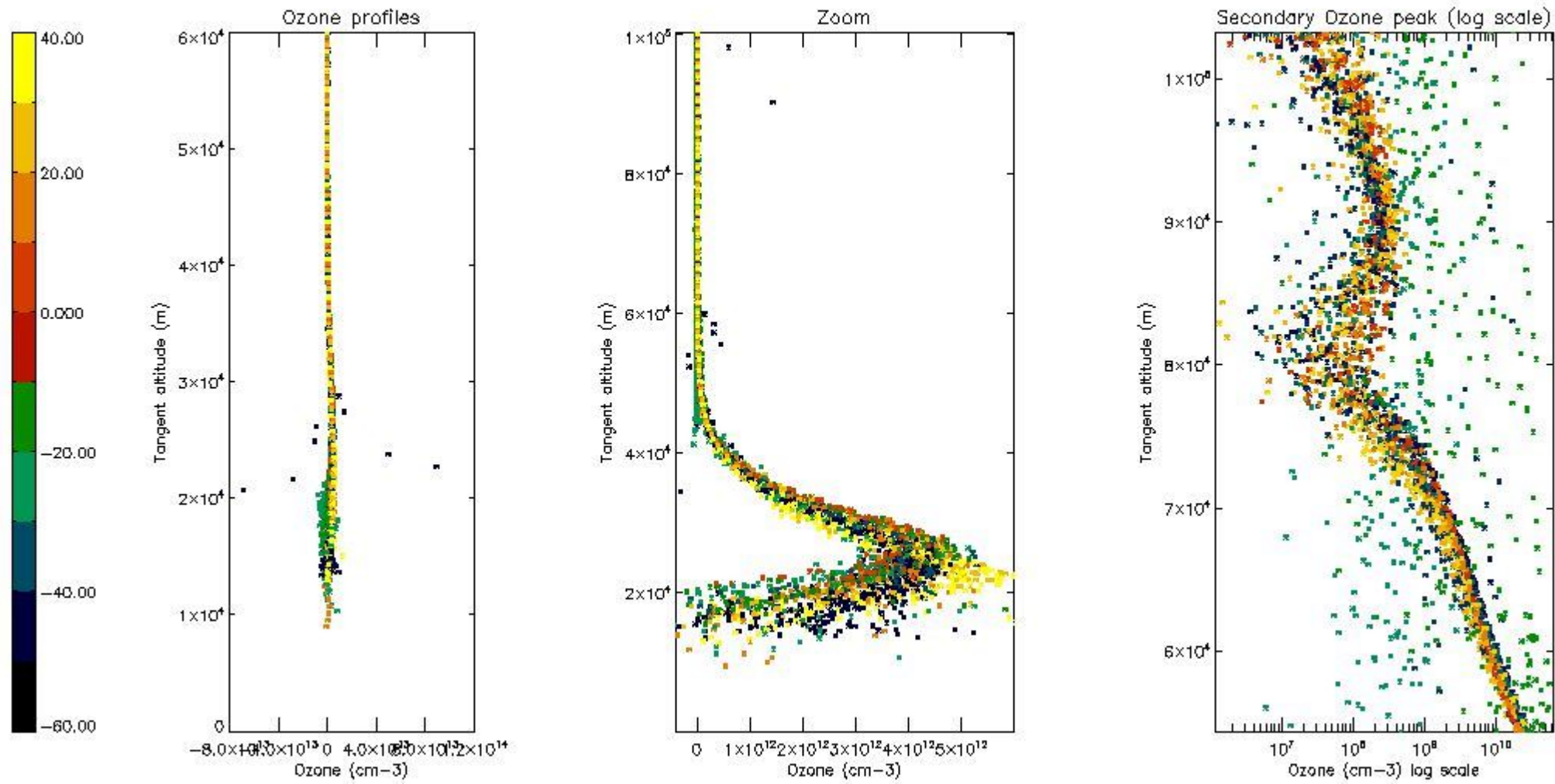
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	16

STD < 10	13
STD < 5	8

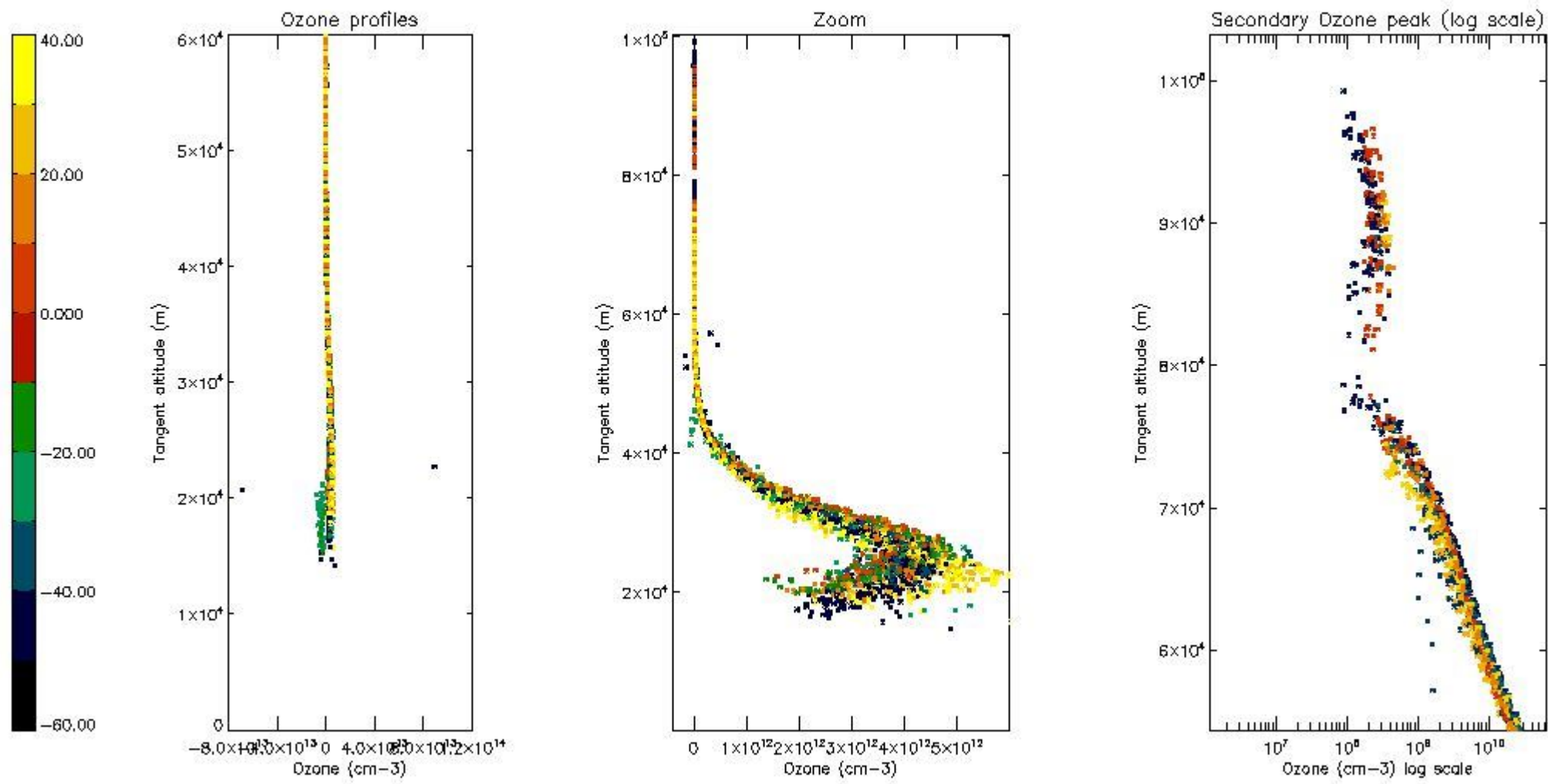
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



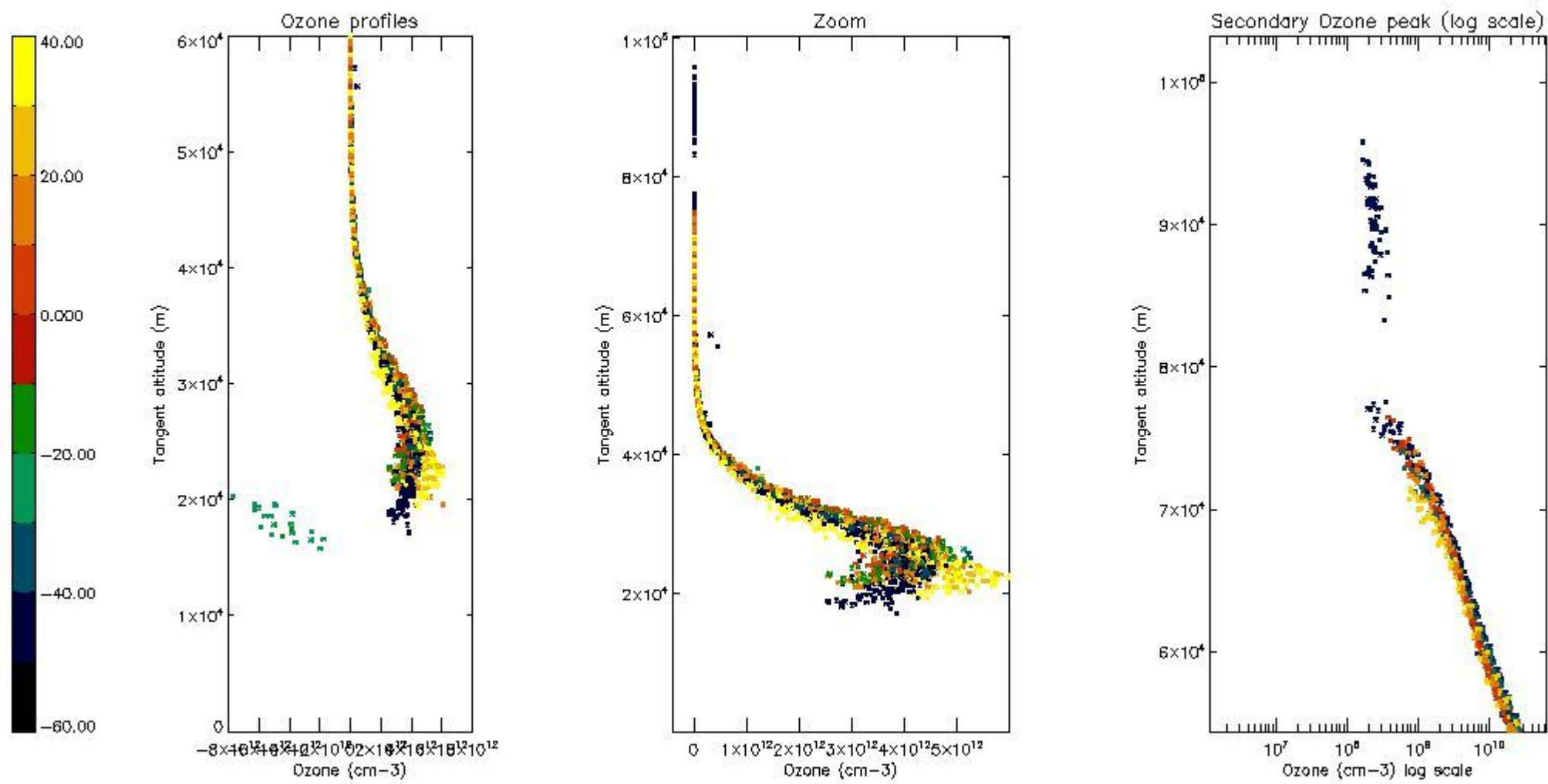
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



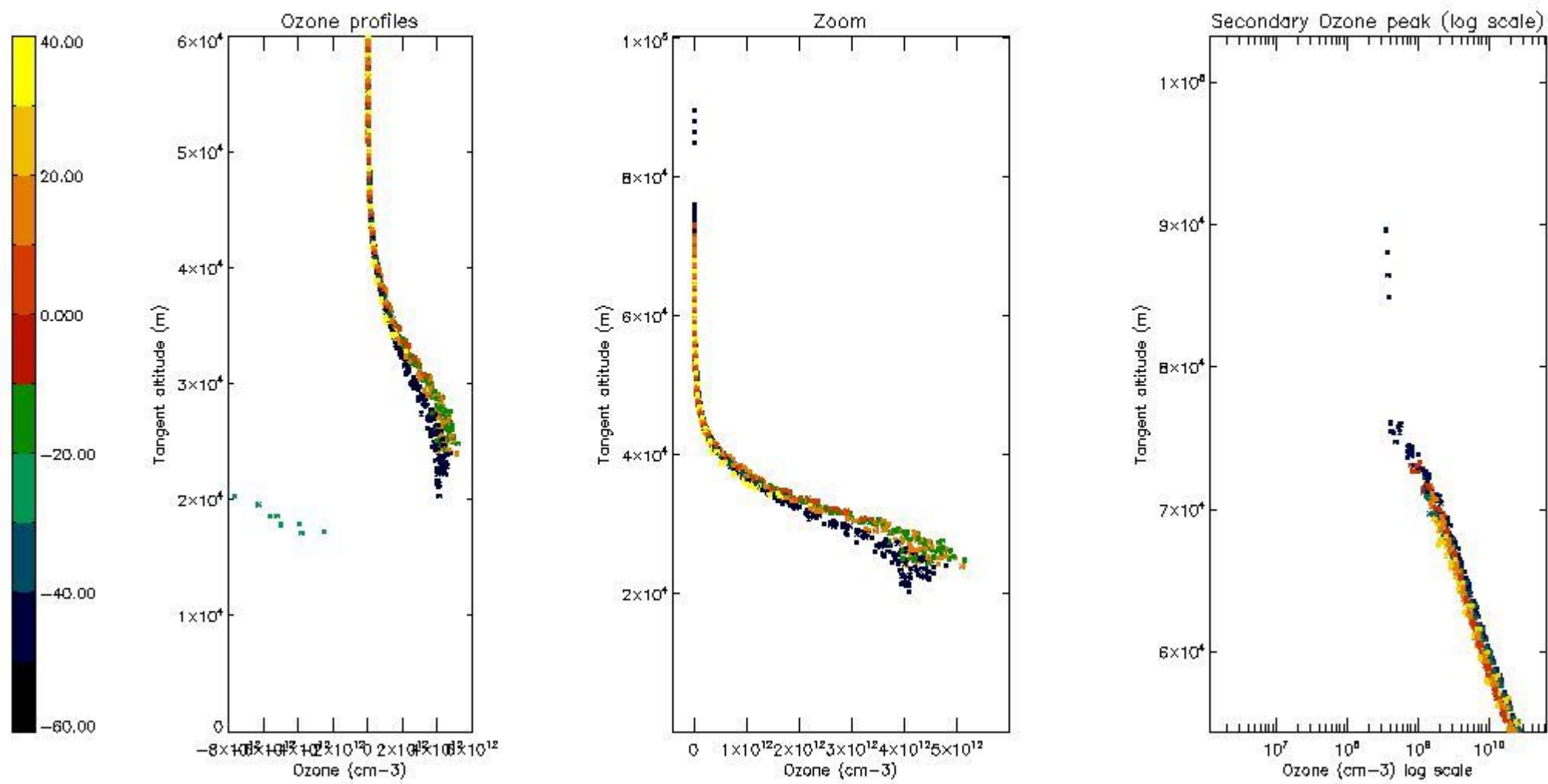
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



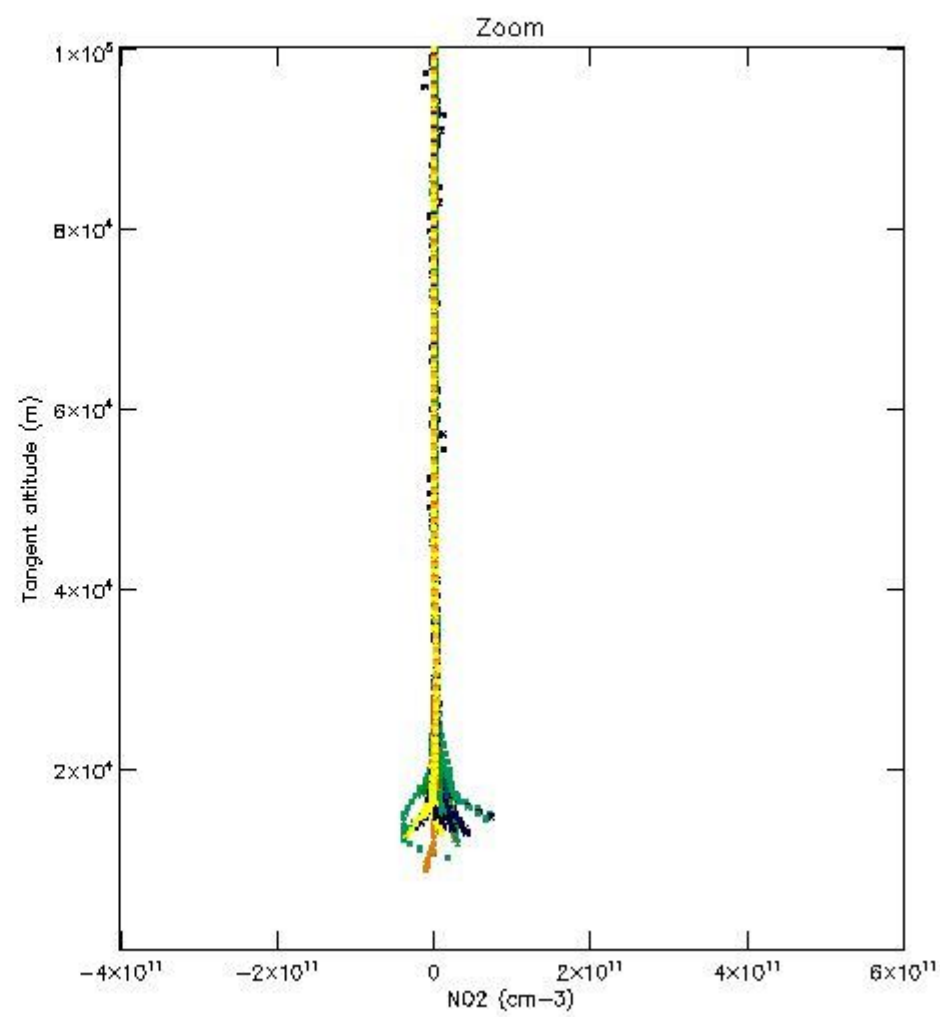
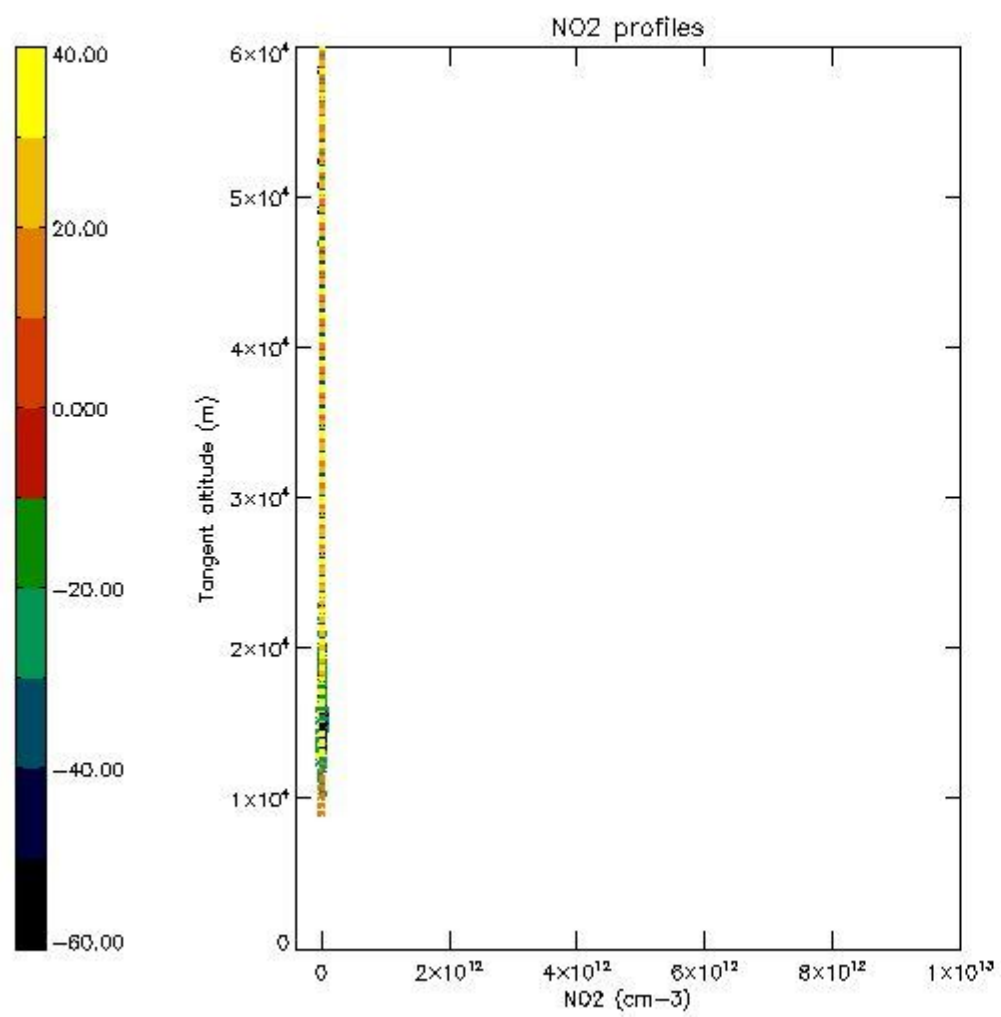
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



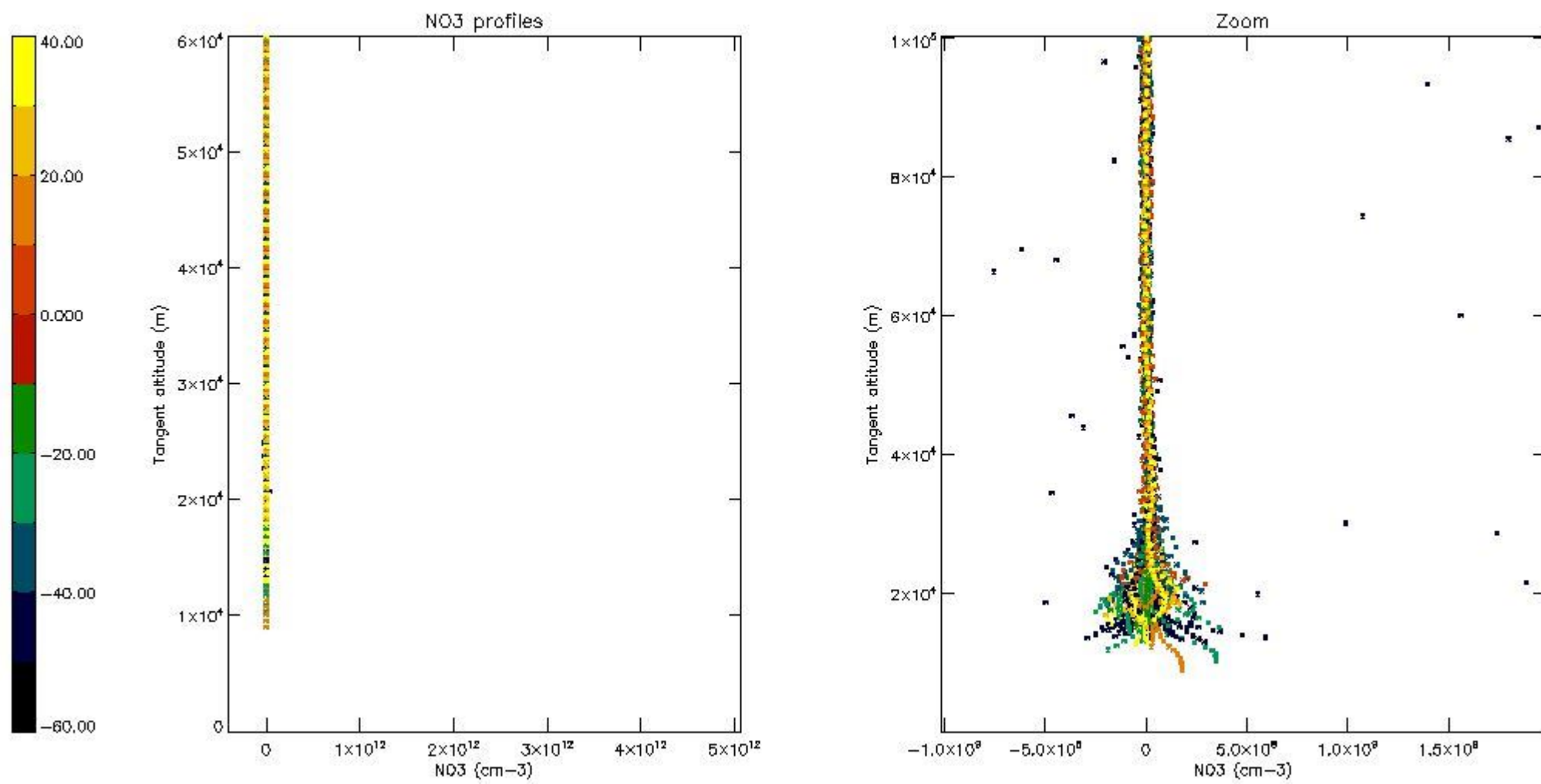
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



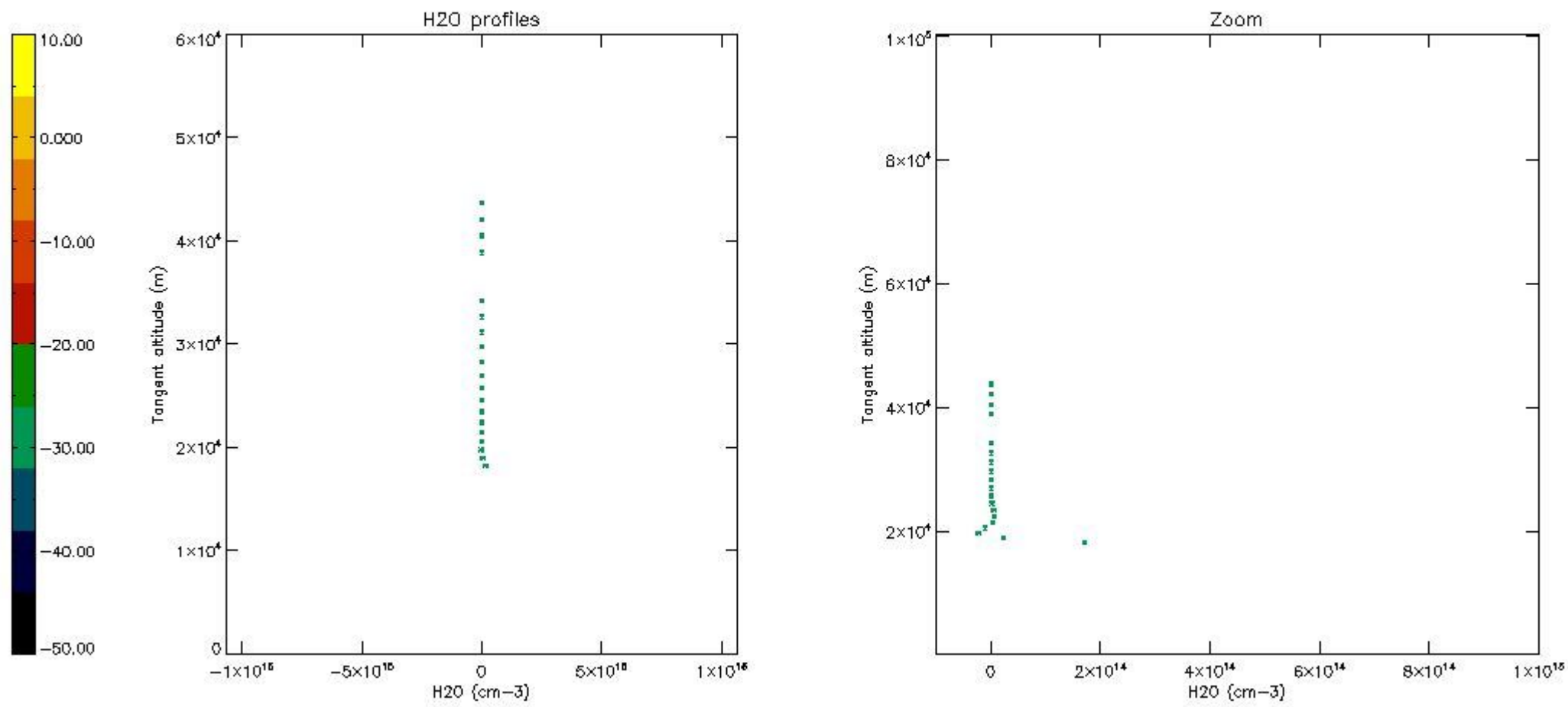
5.7 Plot NO3 profiles for all STD (dark without errors)

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	06-FEB-2007 00:03:27
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-FEB-2007 00:03:27
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-FEB-2007 00:03:27

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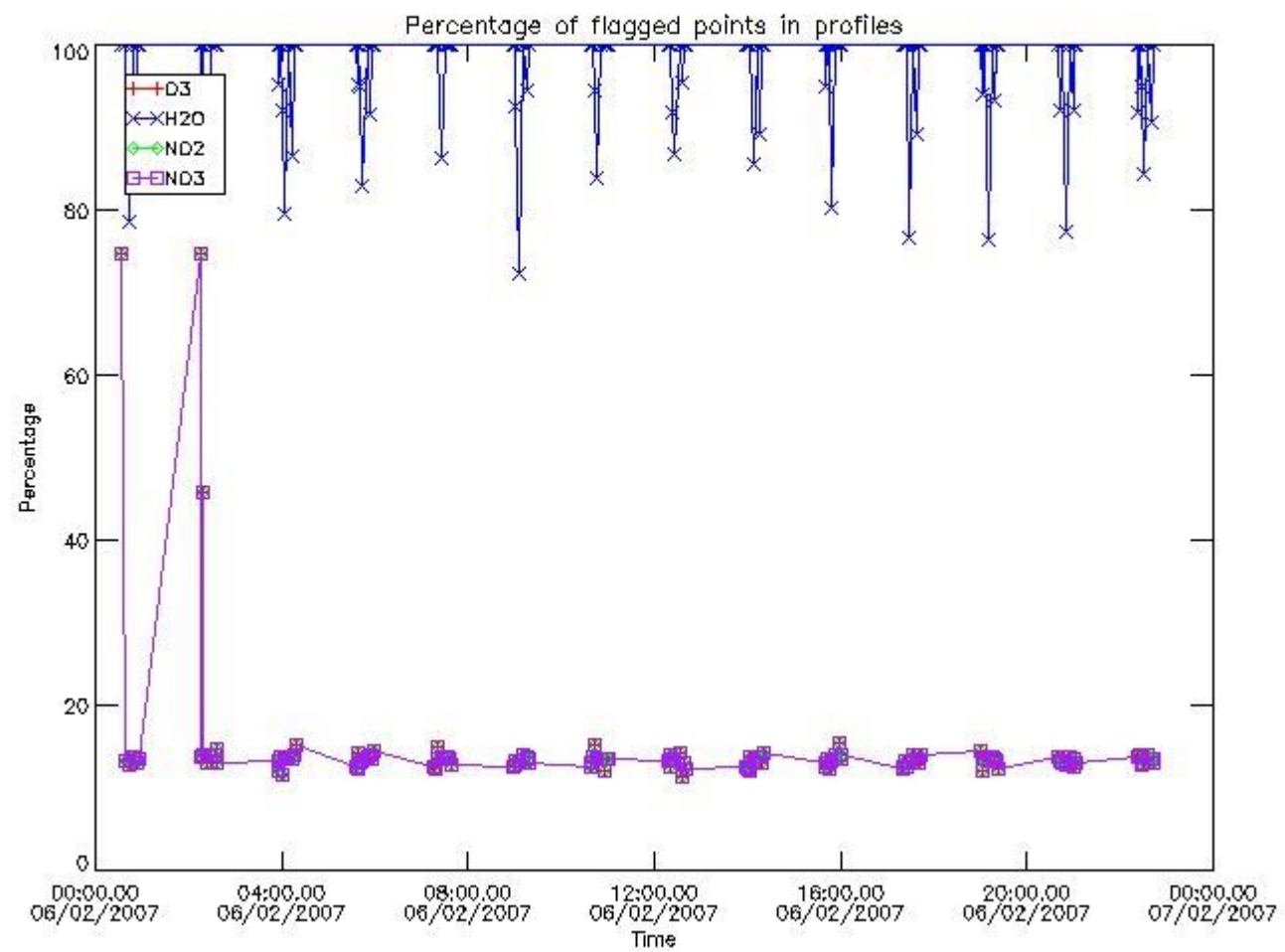
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070206_000327_000000352055_00202_25807_7411.N1	06-FEB-2007 00:03:27	Bright	34.500	89	5Alp Cep	2.4510	8000.0	69	25807	No
2	GOM_NL__2PRFIN20070206_000925_000000342055_00202_25807_7412.N1	06-FEB-2007 00:09:25	Bright	34.000	144	18Del Cyg	2.8600	11000.	68	25807	No
3	GOM_NL__2PRFIN20070206_001148_000000342055_00202_25807_7413.N1	06-FEB-2007 00:11:48	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	25807	No
4	GOM_NL__2PRFIN20070206_001830_000000332055_00202_25807_7414.N1	06-FEB-2007 00:18:30	Bright	32.500	168	17Zet Aql	2.9860	11000.	65	25807	No
5	GOM_NL__2PRFIN20070206_002947_000000422055_00202_25807_7415.N1	06-FEB-2007 00:29:47	Twilight	42.000	137	22Lam Sgr	2.8240	4400.0	84	25807	No
6	GOM_NL__2PRFIN20070206_003104_000000432055_00202_25807_7416.N1	06-FEB-2007 00:31:04	Twilight	43.000	116	19Del Sgr	2.7000	4100.0	86	25807	No
7	GOM_NL__2PRFIN20070206_003215_000000412055_00202_25807_7417.N1	06-FEB-2007 00:32:15	Twilight	40.500	38	20Eps Sgr	1.8360	11000.	81	25807	No
8	GOM_NL__2PRFIN20070206_003357_000000422055_00202_25807_7418.N1	06-FEB-2007 00:33:57	Dark	42.000	25	35Lam Sco	1.6200	28000.	84	25807	No
9	GOM_NL__2PRFIN20070206_003845_000000392055_00202_25807_7419.N1	06-FEB-2007 00:38:45	Dark	38.500	141	Bet Ara	2.8400	4600.0	77	25807	No
10	GOM_NL__2PRFIN20070206_004234_000000402055_00203_25808_7405.N1	06-FEB-2007 00:42:34	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	25808	No
11	GOM_NL__2PRFIN20070206_004812_000000372055_00203_25808_7406.N1	06-FEB-2007 00:48:12	Dark	37.000	112	Alp Mus	2.6880	26000.	74	25808	No
12	GOM_NL__2PRFIN20070206_005208_000000372055_00203_25808_7407.N1	06-FEB-2007 00:52:08	Dark	37.000	29	Bet Car	1.6720	10200.	74	25808	No
13	GOM_NL__2PRFIN20070206_005435_000000402055_00203_25808_7408.N1	06-FEB-2007 00:54:35	Dark	39.500	71	lot Car	2.2460	7700.0	79	25808	No
14	GOM_NL__2PRFIN20070206_005618_000000382055_00203_25808_7409.N1	06-FEB-2007 00:56:18	Dark	38.000	46	Del Vel	1.9540	10600.	76	25808	No
15	GOM_NL__2PRFIN20070206_005846_000000382055_00203_25808_7410.N1	06-FEB-2007 00:58:46	Straylight	37.500	34	Gam2Vel	1.7930	23000.	75	25808	No
16	GOM_NL__2PRFIN20070206_010050_000000382055_00203_25808_7411.N1	06-FEB-2007 01:00:50	Straylight	38.000	70	Zet Pup	2.2460	39000.	76	25808	No
17	GOM_NL__2PRFIN20070206_010209_000000432055_00203_25808_7412.N1	06-FEB-2007 01:02:09	Straylight	43.000	117	Pi Pup	2.7060	3800.0	86	25808	No
18	GOM_NL__2PRFIN20070206_010436_000000422055_00203_25808_7413.N1	06-FEB-2007 01:04:36	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	25808	No
19	GOM_NL__2PRFIN20070206_010559_000000372055_00203_25808_7414.N1	06-FEB-2007 01:05:59	Straylight	36.500	179	24Omi2CMa	3.0320	24000.	73	25808	No
20	GOM_NL__2PRFIN20070206_010809_000000422055_00203_25808_7415.N1	06-FEB-2007 01:08:09	Straylight	42.000	1	9Alp CMa	-1.4400	11000.	84	25808	No
21	GOM_NL__2PRFIN20070206_011346_000000522055_00203_25808_7416.N1	06-FEB-2007 01:13:46	Twilight_and_stray	52.000	8	10Alp CMi	0.40000	6500.0	104	25808	No
22	GOM_NL__2PRFIN20070206_011722_000000362055_00203_25808_7417.N1	06-FEB-2007 01:17:22	Bright	36.000	44	24Gam Gem	1.9280	11000.	72	25808	No
23	GOM_NL__2PRFIN20070206_011915_000000382055_00203_25808_7418.N1	06-FEB-2007 01:19:15	Bright	38.000	151	13Mu Gem	2.8900	3000.0	76	25808	No
24	GOM_NL__2PRFIN20070206_012336_000000362055_00203_25808_7419.N1	06-FEB-2007 01:23:36	Bright	36.000	107	37The Aur	2.6490	11000.	72	25808	No
25	GOM_NL__2PRFIN20070206_012539_000000352055_00203_25808_7420.N1	06-FEB-2007 01:25:39	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	25808	No
26	GOM_NL__2PRFIN20070206_013739_000000352055_00203_25808_7421.N1	06-FEB-2007 01:37:39	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	25808	No
27	GOM_NL__2PRFIN20070206_014404_000000472055_00203_25808_7422.N1	06-FEB-2007 01:44:04	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	25808	No
28	GOM_NL__2PRFIN20070206_015001_000000342055_00203_25808_7423.N1	06-FEB-2007 01:50:01	Bright	34.000	144	18Del Cyg	2.8600	11000.	68	25808	No
29	GOM_NL__2PRFIN20070206_015224_000000342055_00203_25808_7424.N1	06-FEB-2007 01:52:24	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	25808	No
30	GOM_NL__2PRFIN20070206_015906_000000322055_00203_25808_7425.N1	06-FEB-2007 01:59:06	Bright	32.000	168	17Zet Aql	2.9860	11000.	64	25808	No
31	GOM_NL__2PRFIN20070206_021023_000000412055_00203_25808_7426.N1	06-FEB-2007 02:10:23	Twilight	40.500	137	22Lam Sgr	2.8240	4400.0	81	25808	No
32	GOM_NL__2PRFIN20070206_021141_000000442055_00203_25808_7427.N1	06-FEB-2007 02:11:41	Twilight	43.500	116	19Del Sgr	2.7000	4100.0	87	25808	No
33	GOM_NL__2PRFIN20070206_021252_000000392055_00203_25808_7428.N1	06-FEB-2007 02:12:52	Twilight	39.000	38	20Eps Sgr	1.8360	11000.	78	25808	No
34	GOM_NL__2PRFIN20070206_021433_000000382055_00203_25808_7429.N1	06-FEB-2007 02:14:33	Dark	38.000	25	35Lam Sco	1.6200	28000.	76	25808	No
35	GOM_NL__2PRFIN20070206_021558_000000372055_00203_25808_7430.N1	06-FEB-2007 02:15:58	Dark	37.000	40	The Sco	1.8590	7100.0	74	25808	No
36	GOM_NL__2PRFIN20070206_021750_000000372055_00203_25808_7431.N1	06-FEB-2007 02:17:50	Dark	36.500	147	Alp Ara	2.8770	26000.	73	25808	No
37	GOM_NL__2PRFIN20070206_021921_000000372055_00203_25808_7432.N1	06-FEB-2007 02:19:21	Dark	36.500	141	Bet Ara	2.8400	4600.0	73	25808	No
38	GOM_NL__2PRFIN20070206_022310_000000402055_00204_25809_7430.N1	06-FEB-2007 02:23:10	Dark	39.500	43	Alp TrA	1.9100	4250.0	79	25809	No
39	GOM_NL__2PRFIN20070206_022848_000000372055_00204_25809_7431.N1	06-FEB-2007 02:28:48	Dark	36.500	112	Alp Mus	2.6880	26000.	73	25809	No
40	GOM_NL__2PRFIN20070206_023244_000000372055_00204_25809_7432.N1	06-FEB-2007 02:32:44	Dark	36.500	29	Bet Car	1.6720	10200.	73	25809	No
41	GOM_NL__2PRFIN20070206_023512_000000382055_00204_25809_7433.N1	06-FEB-2007 02:35:12	Dark	38.000	71	lot Car	2.2460	7700.0	76	25809	No
42	GOM_NL__2PRFIN20070206_023654_000000392055_00204_25809_7434.N1	06-FEB-2007 02:36:54	Dark	39.000	46	Del Vel	1.9540	10600.	78	25809	No

3. Quality information per product

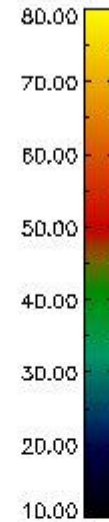
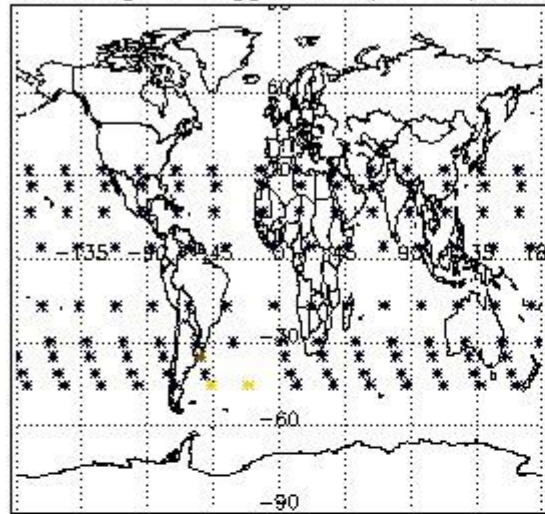
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

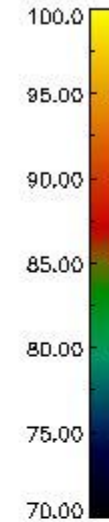
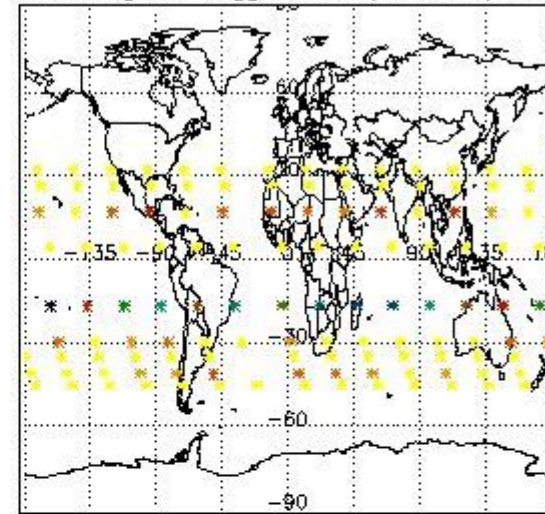


3.2 Plot quality information per product (world map)

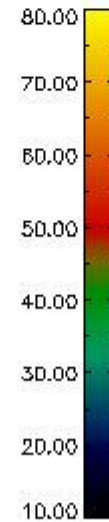
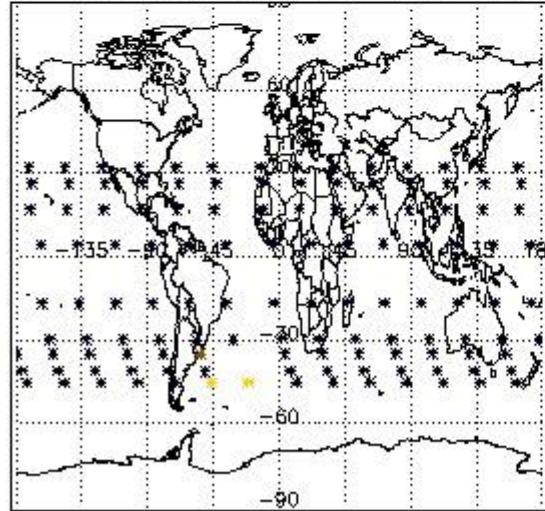
Percentage of flagged data per O3 profile



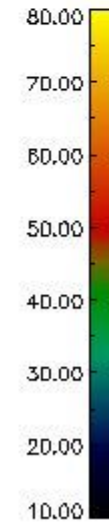
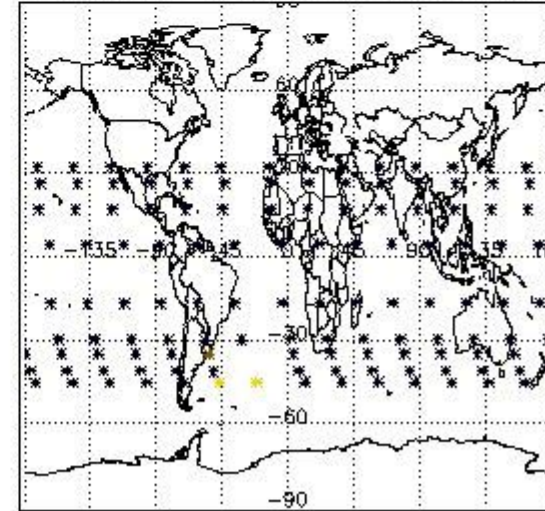
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

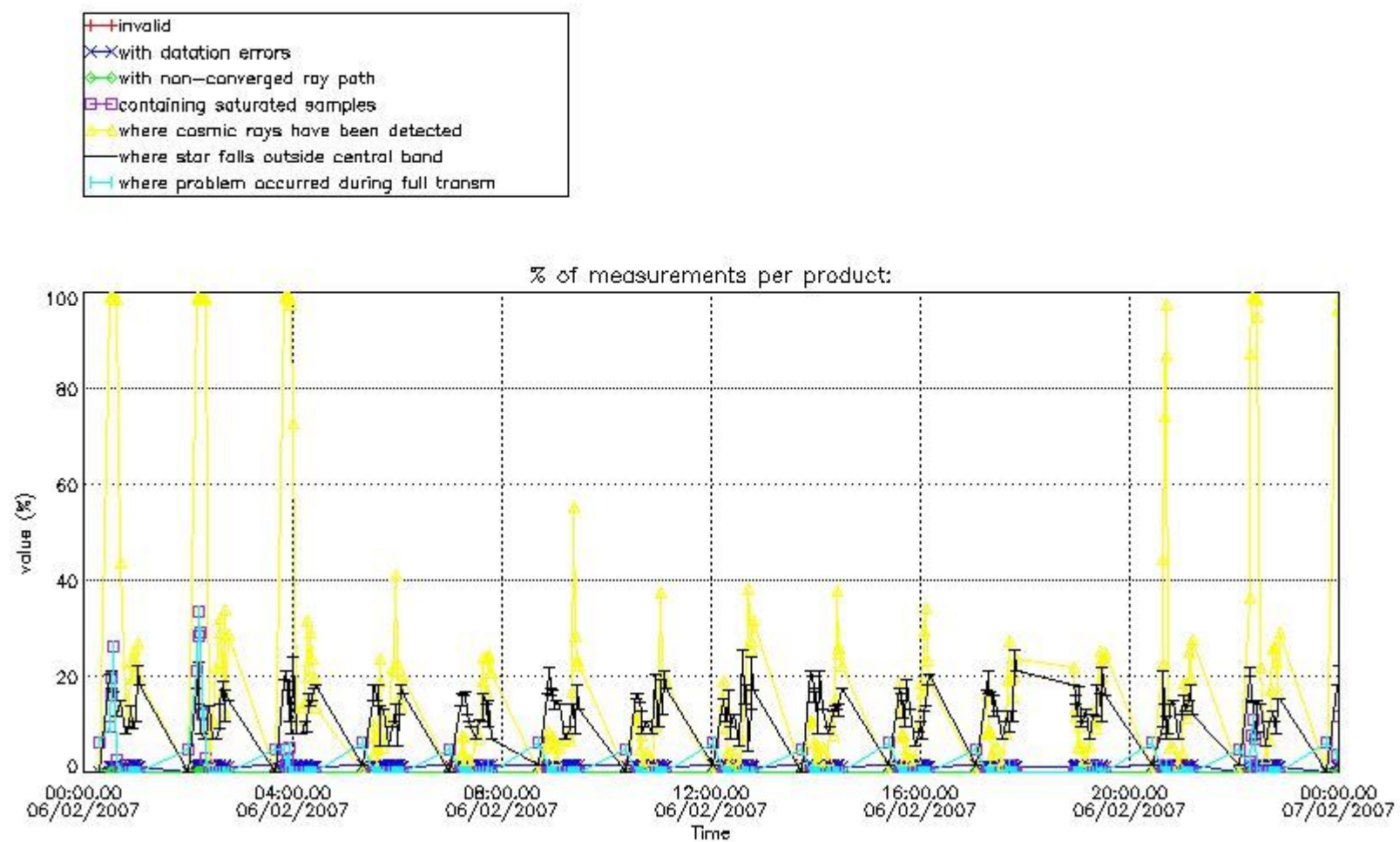


4. Level 1 quality information per product

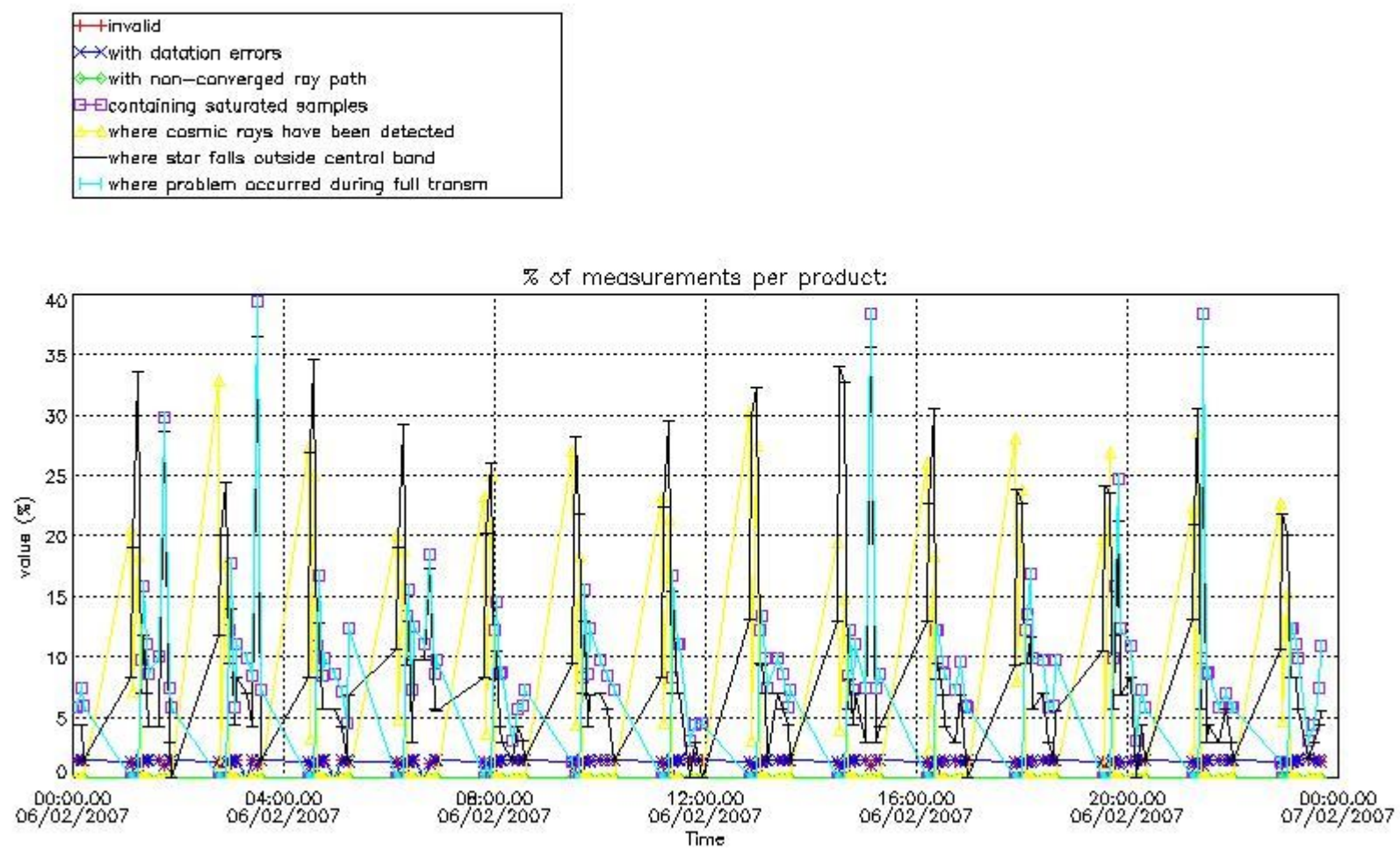
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

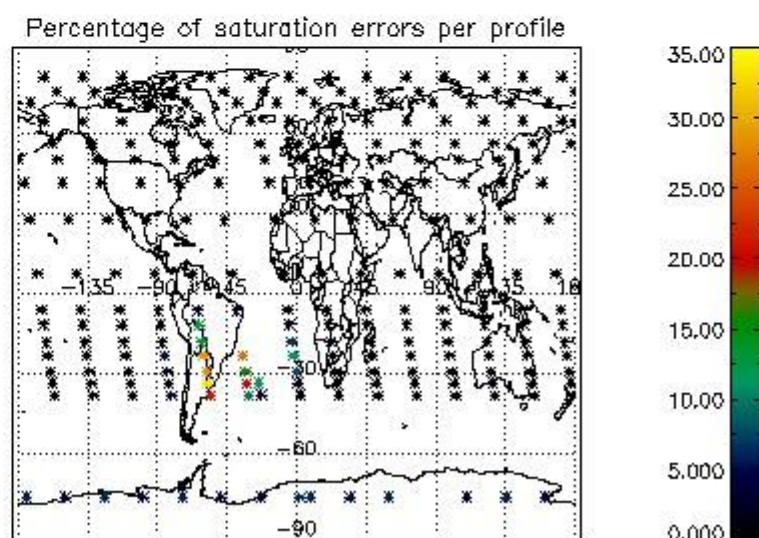
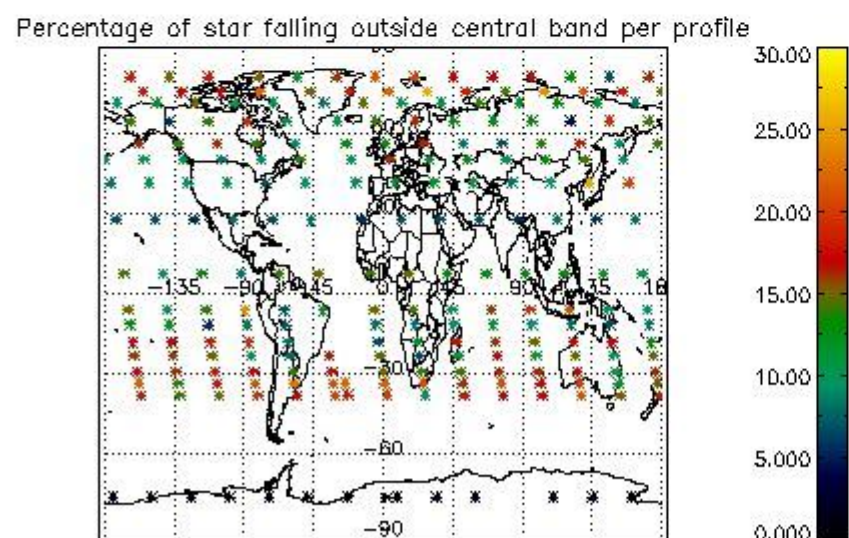
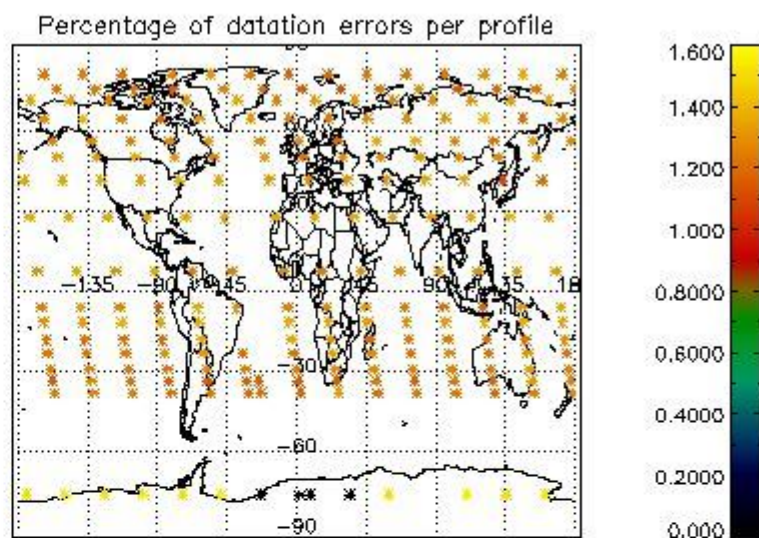
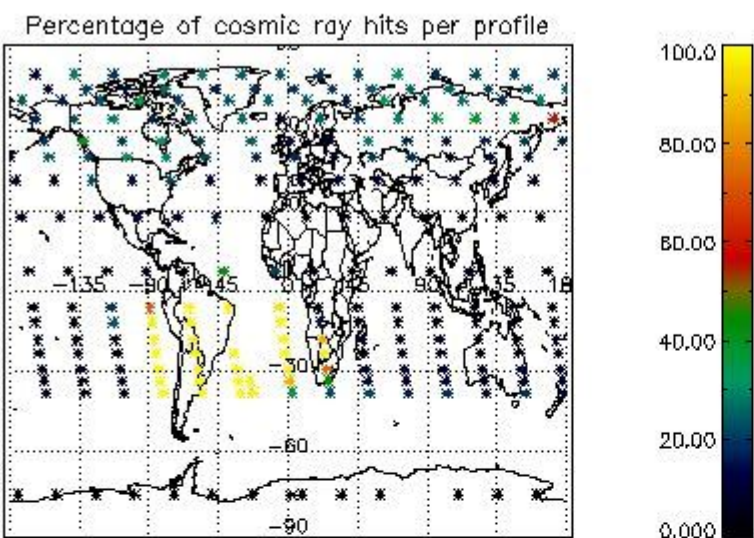


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

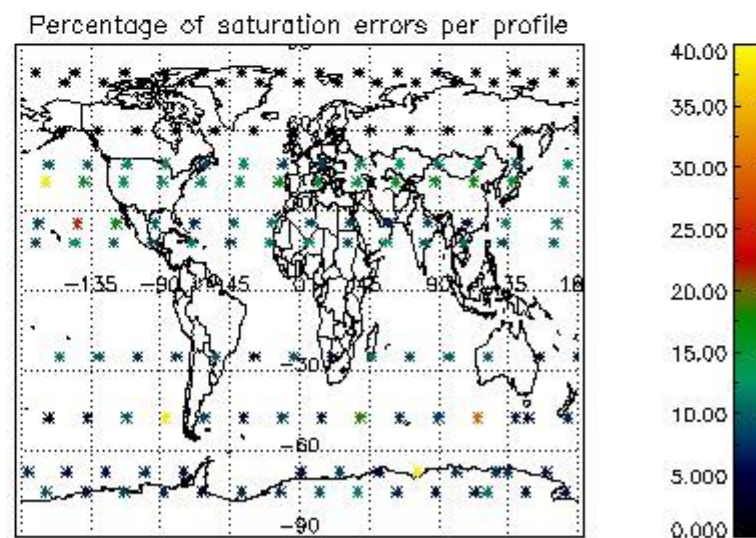
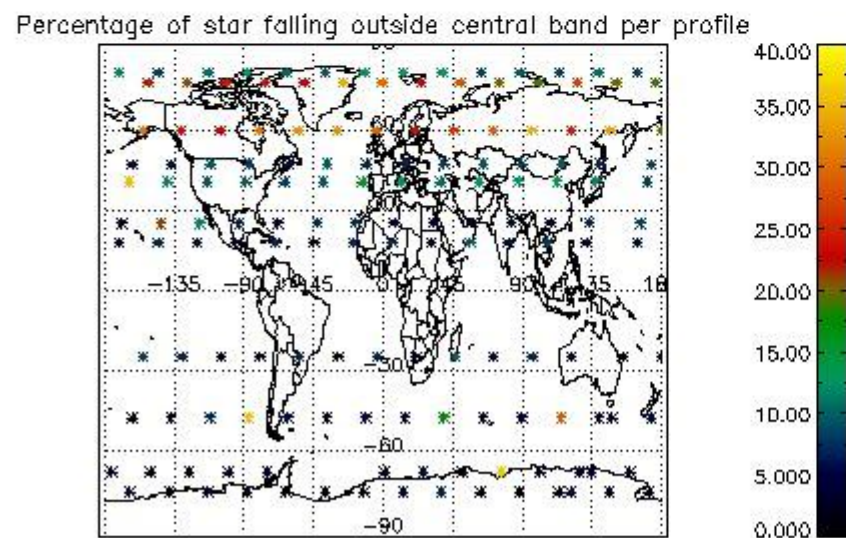
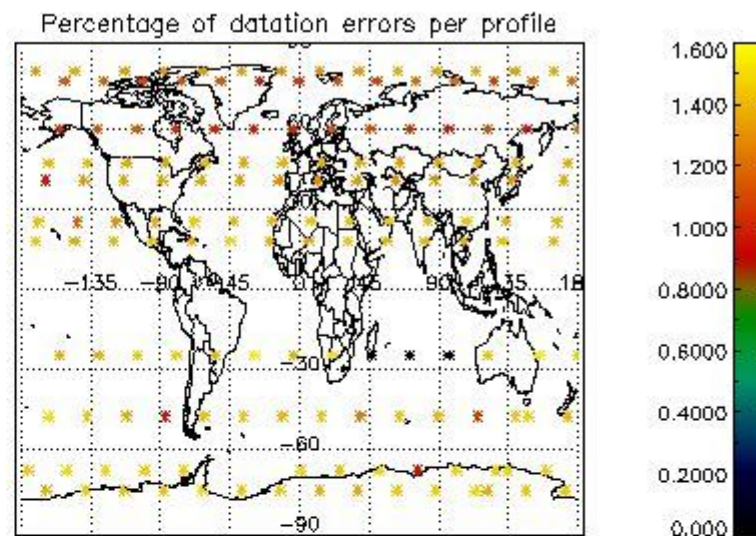
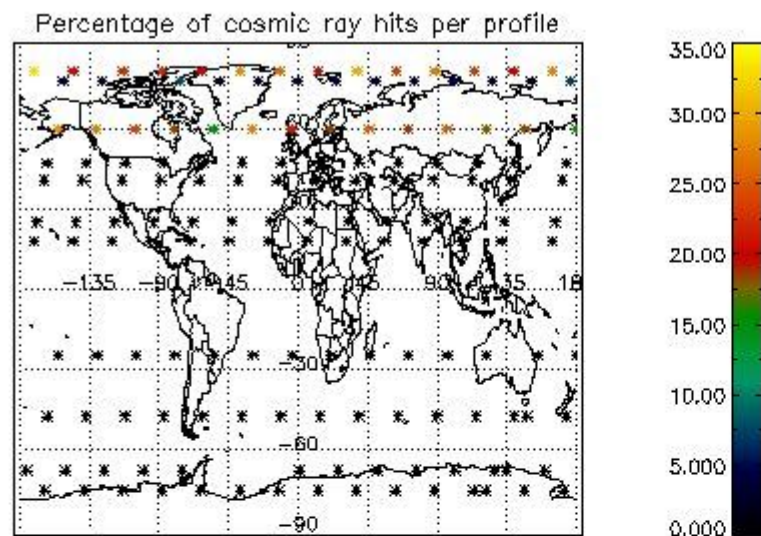


4.2 Plot quality information per product coming from level 1b processing (world map)

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

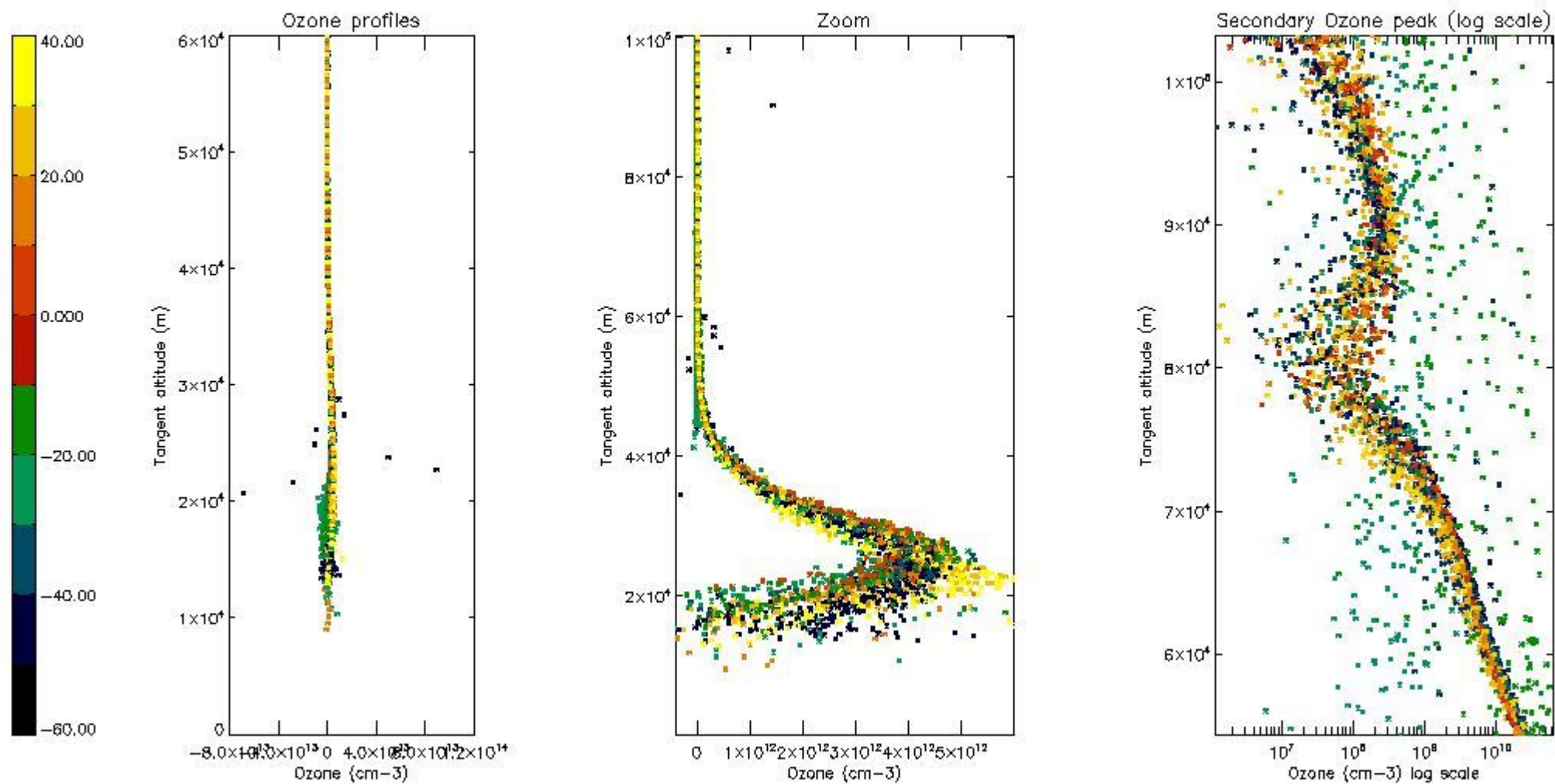
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	16

STD < 10	13
STD < 5	8

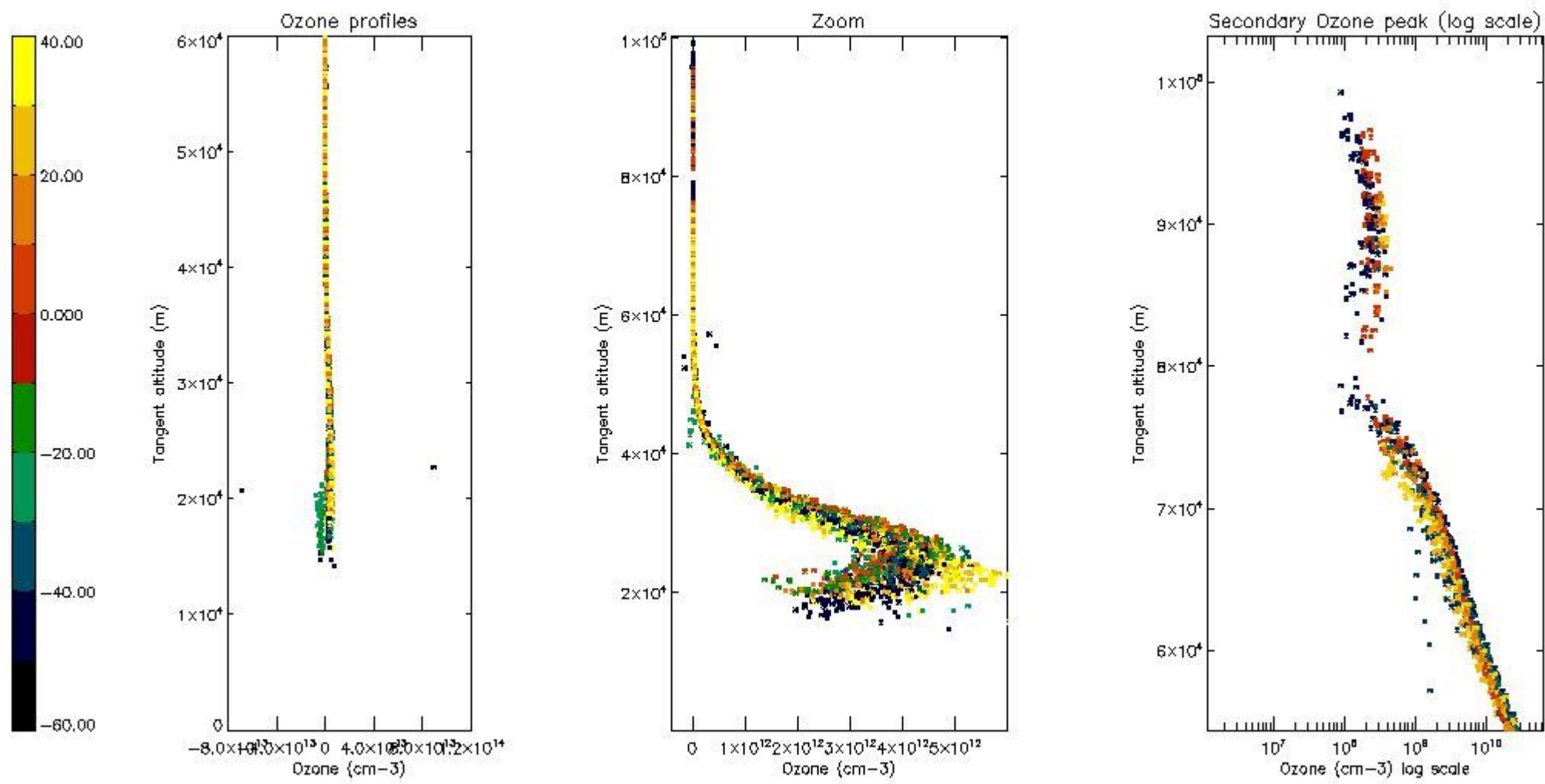
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



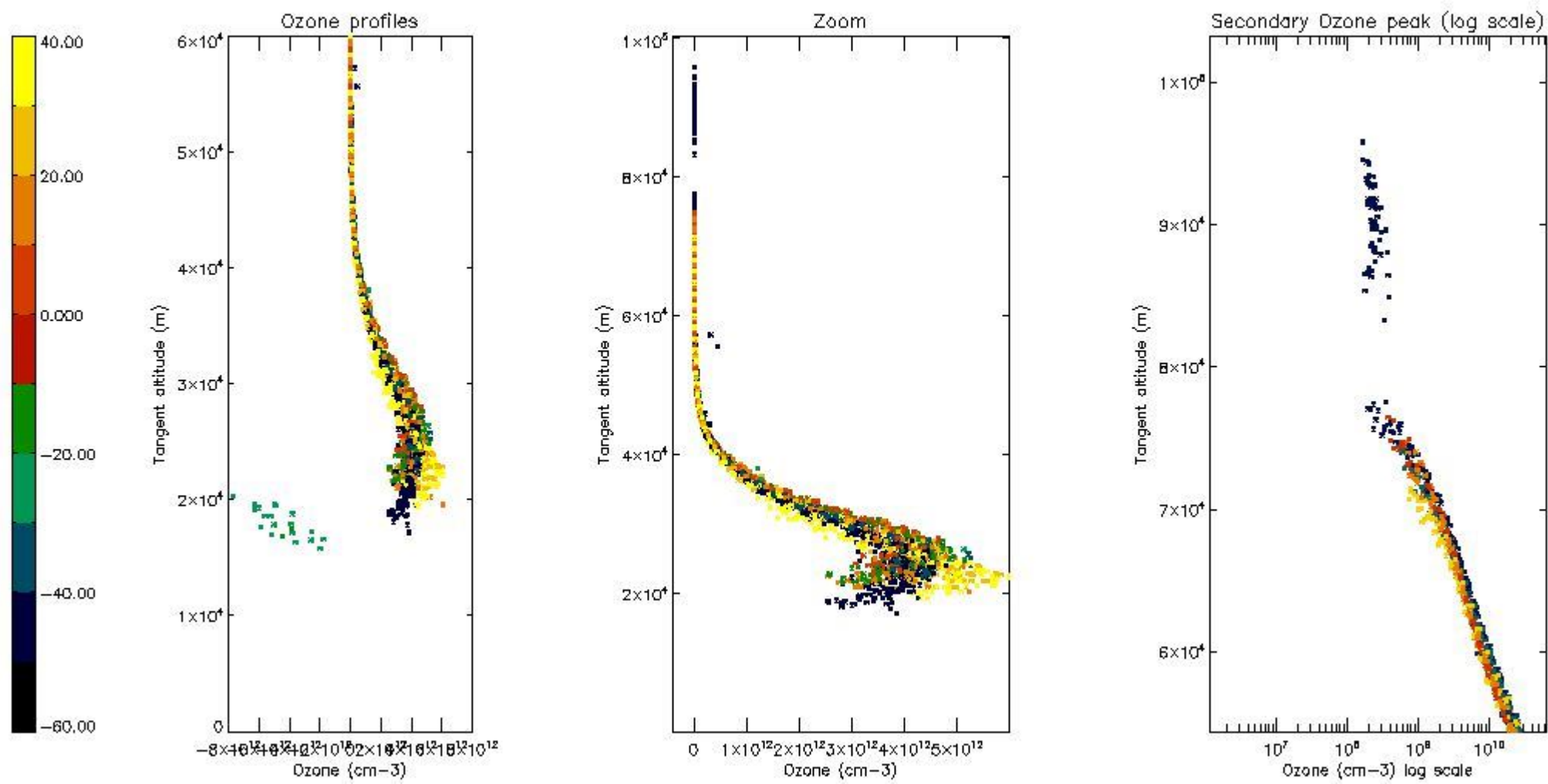
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



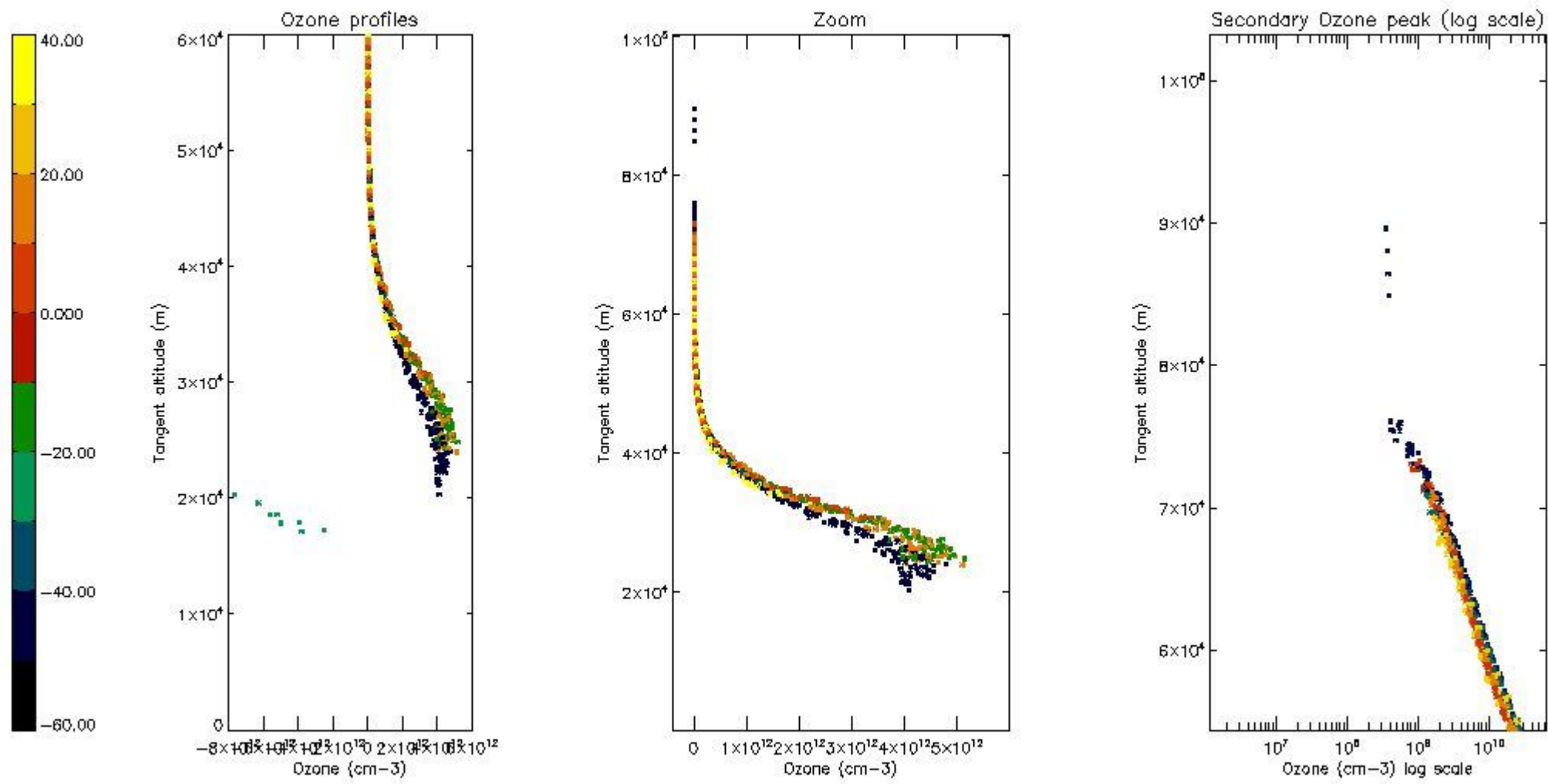
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



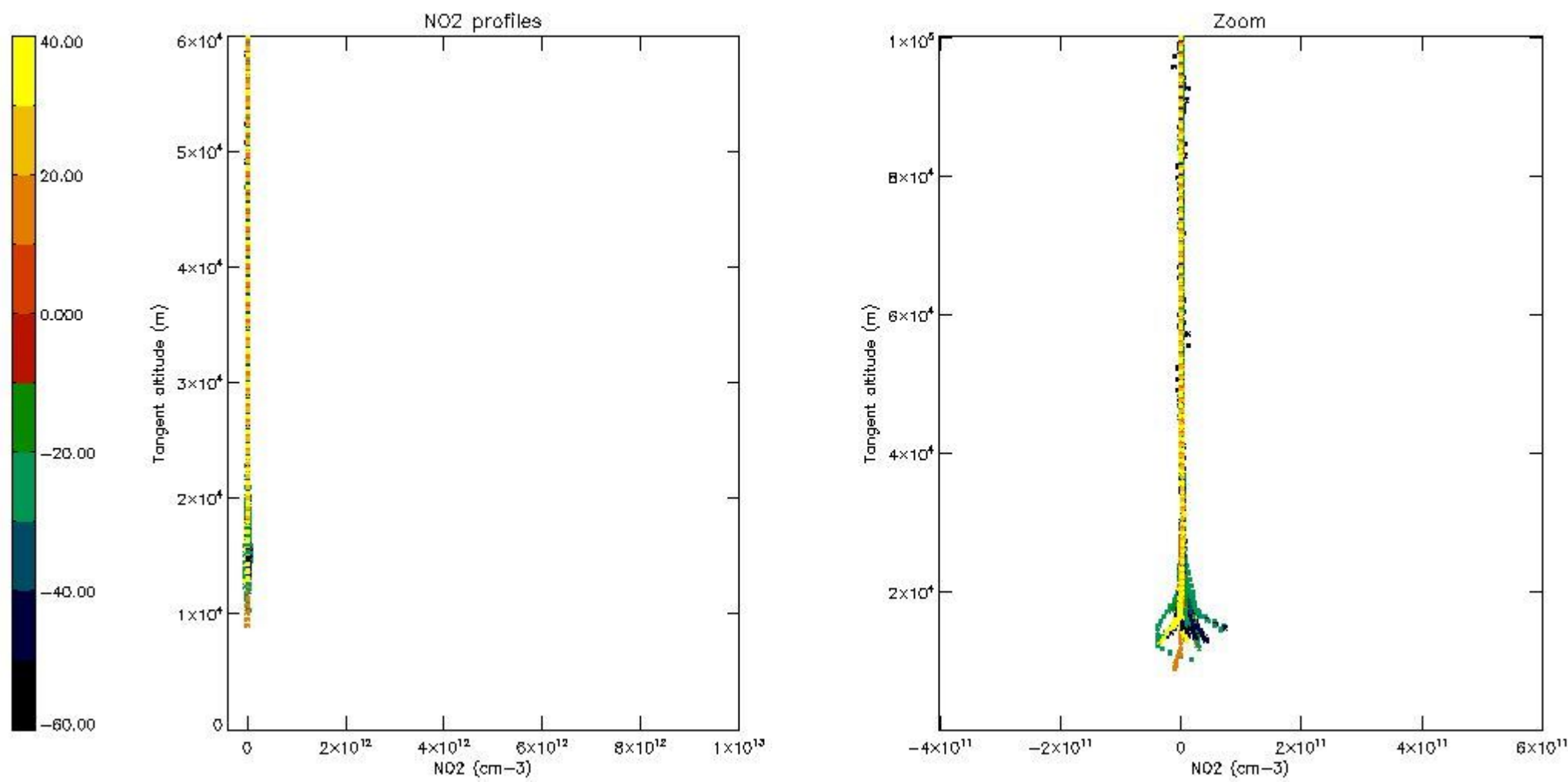
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



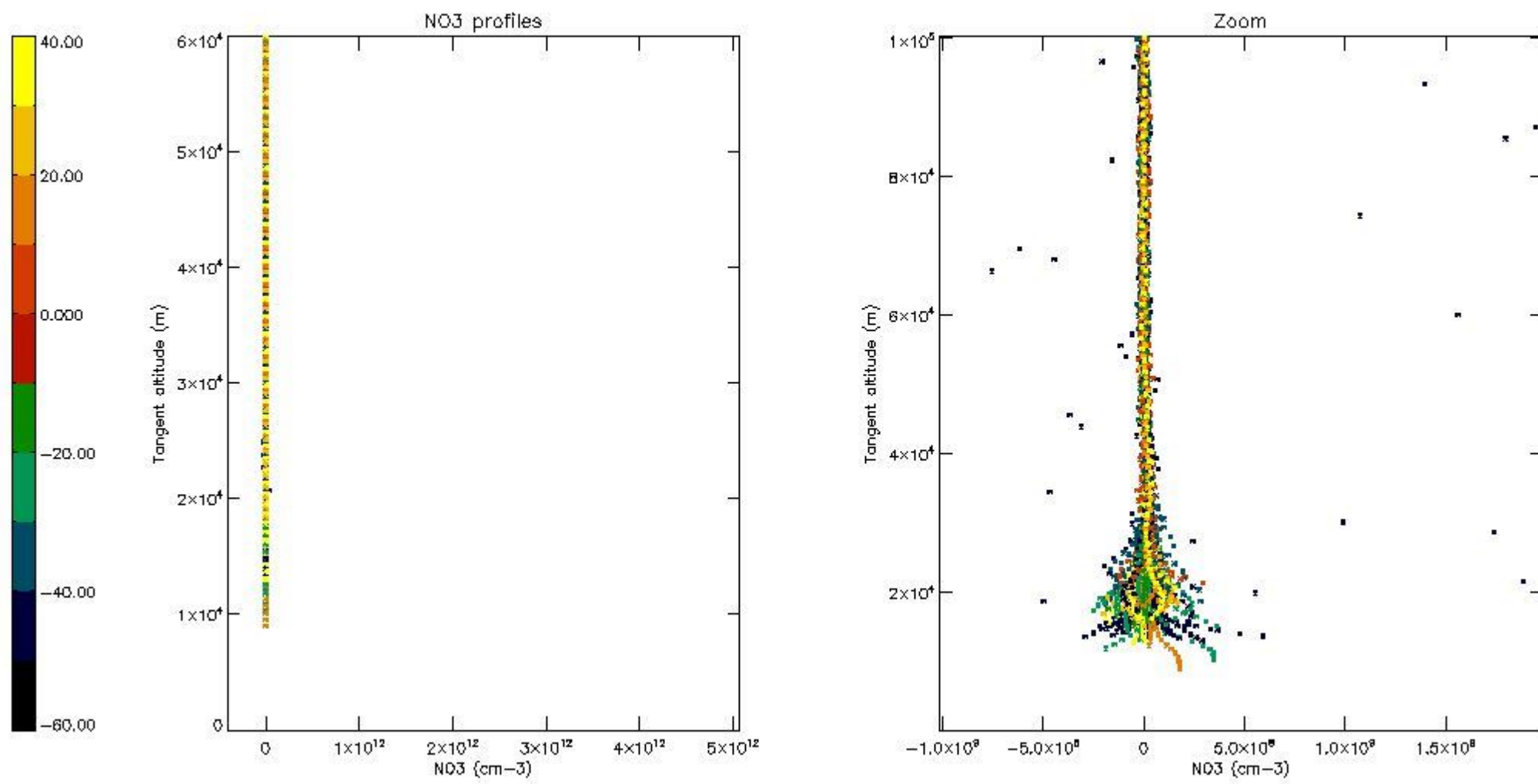
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



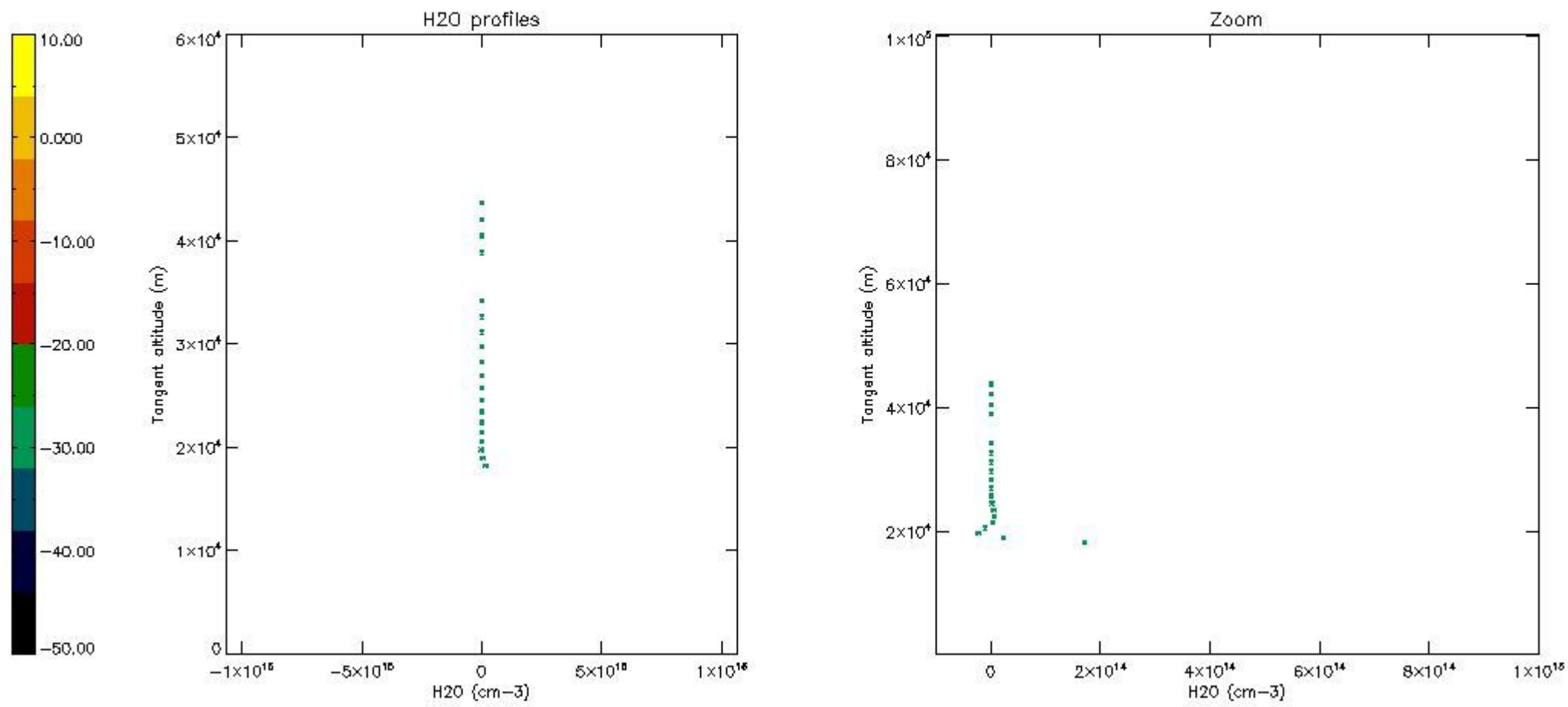
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

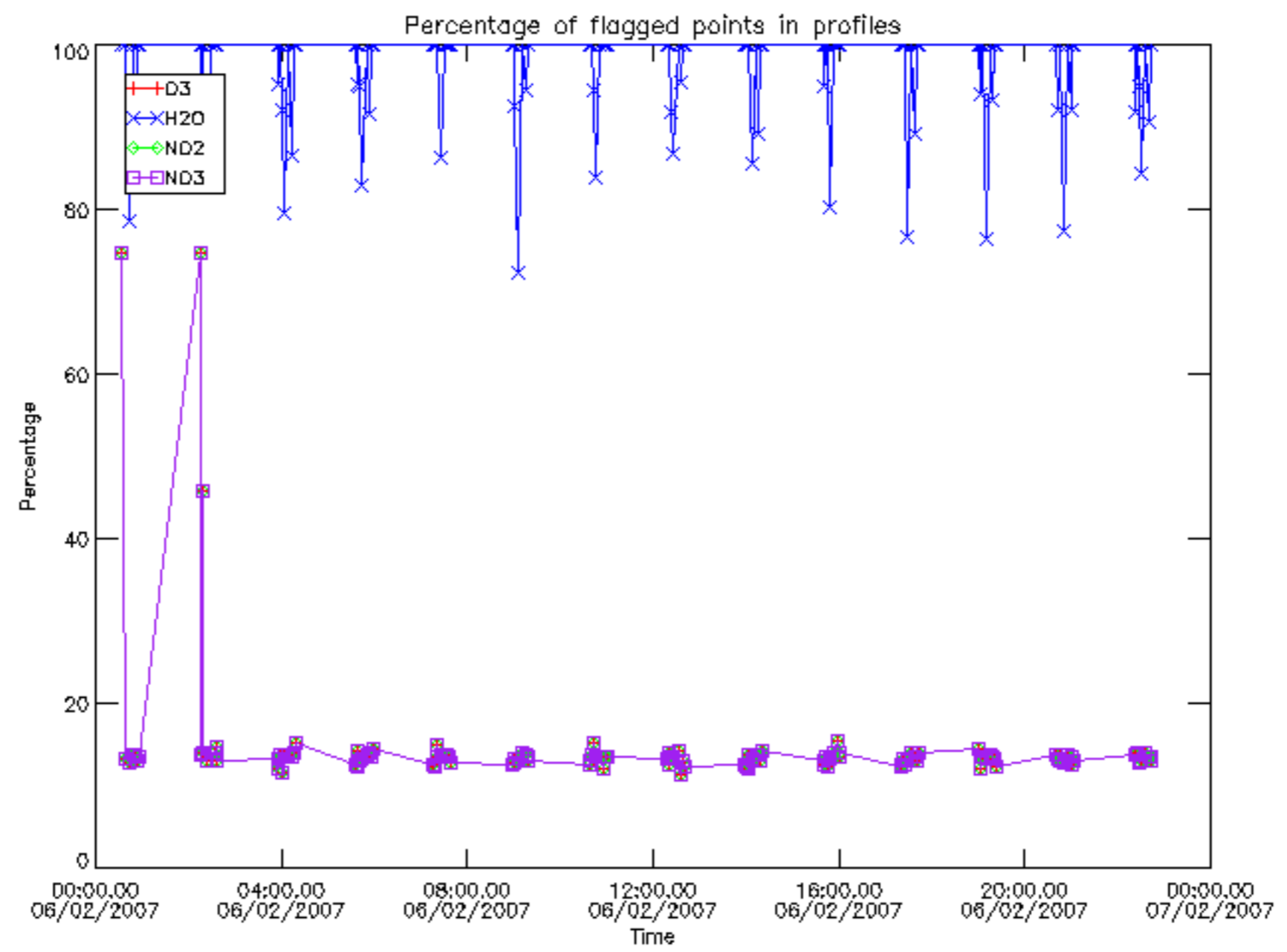
The colorbar represents the latitude.



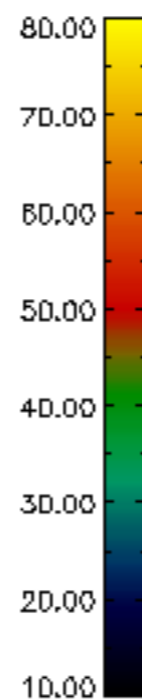
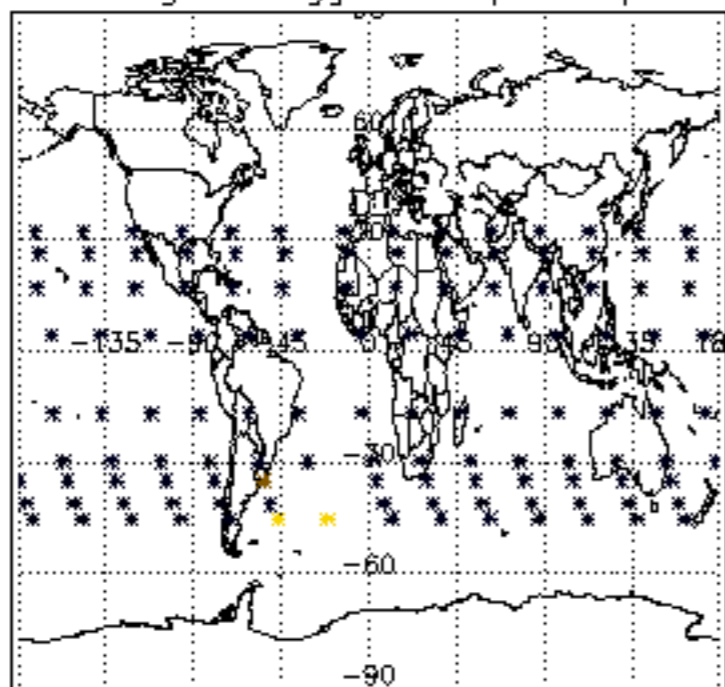
6. Auxiliary Data Files used for the production reported in section 2

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.

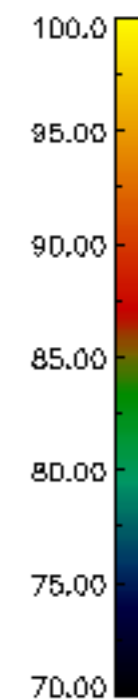
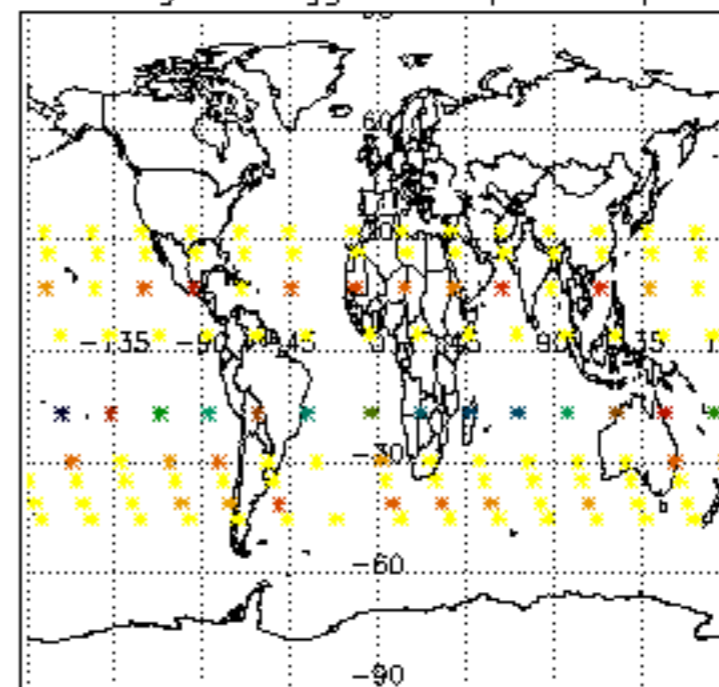
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	06-FEB-2007 00:03:27
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-FEB-2007 00:03:27
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-FEB-2007 00:03:27



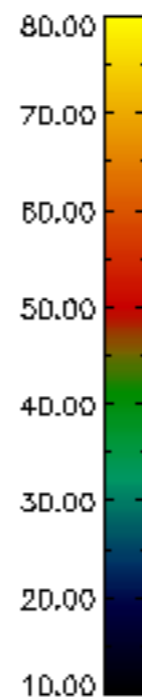
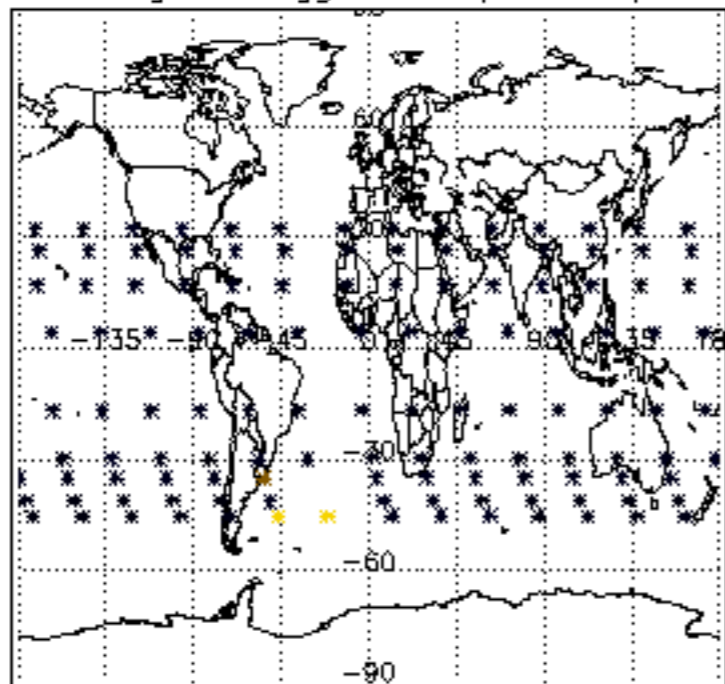
Percentage of flagged data per D3 profile



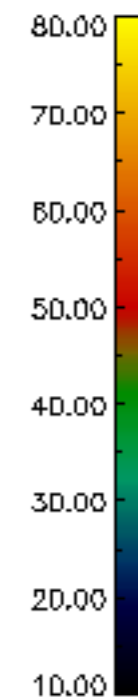
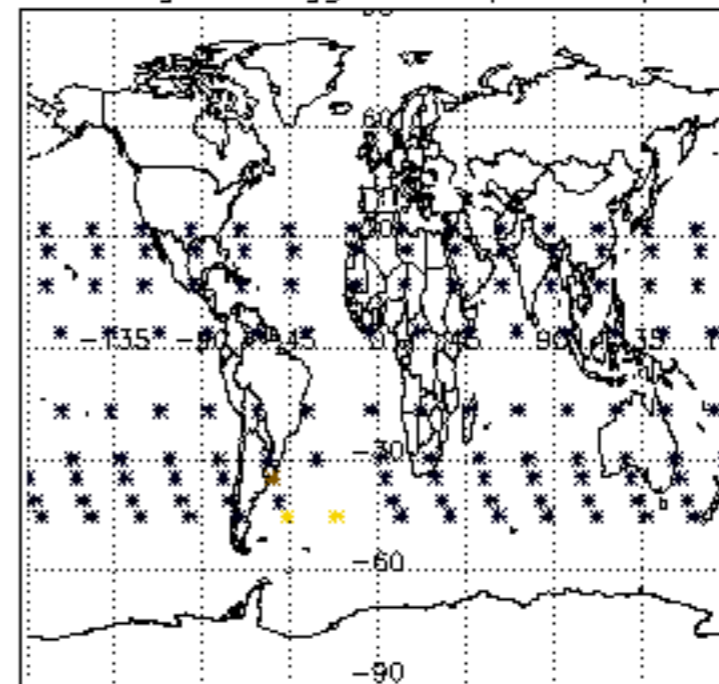
Percentage of flagged data per H2O profile

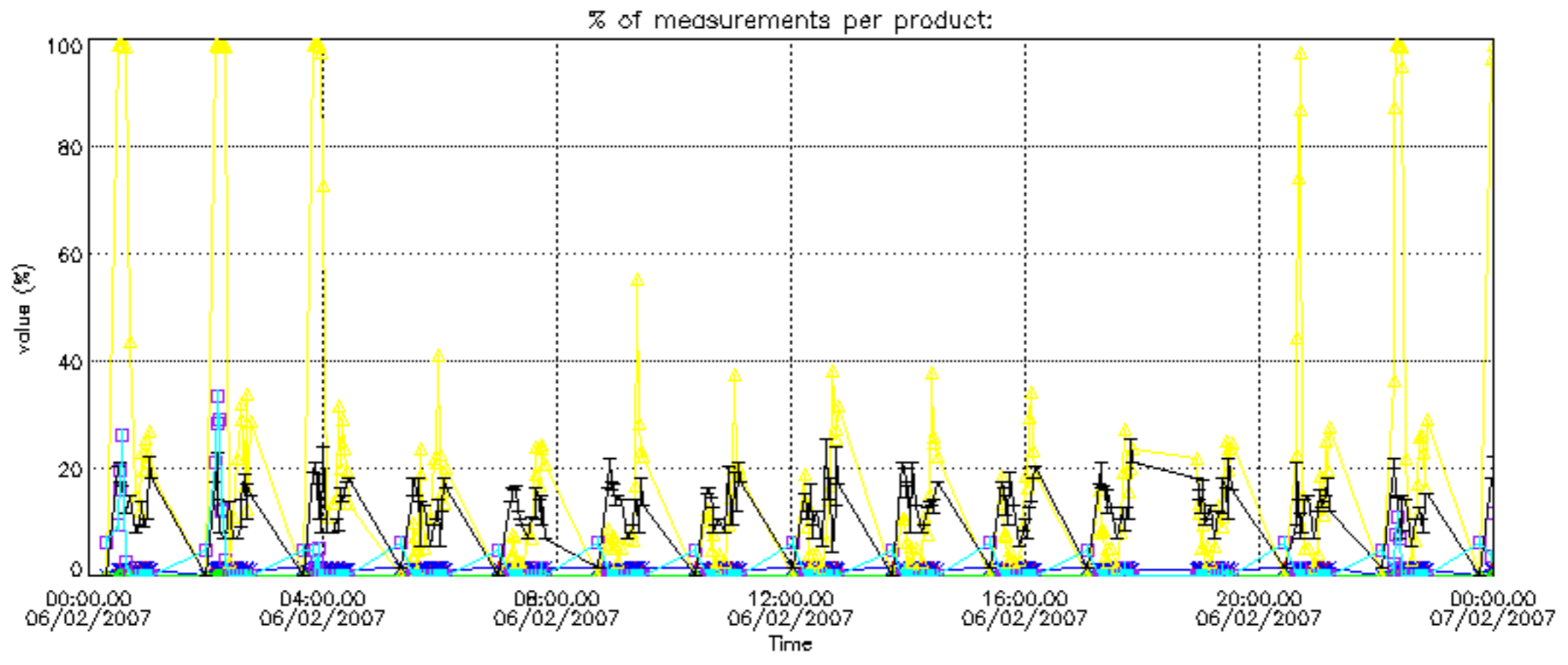


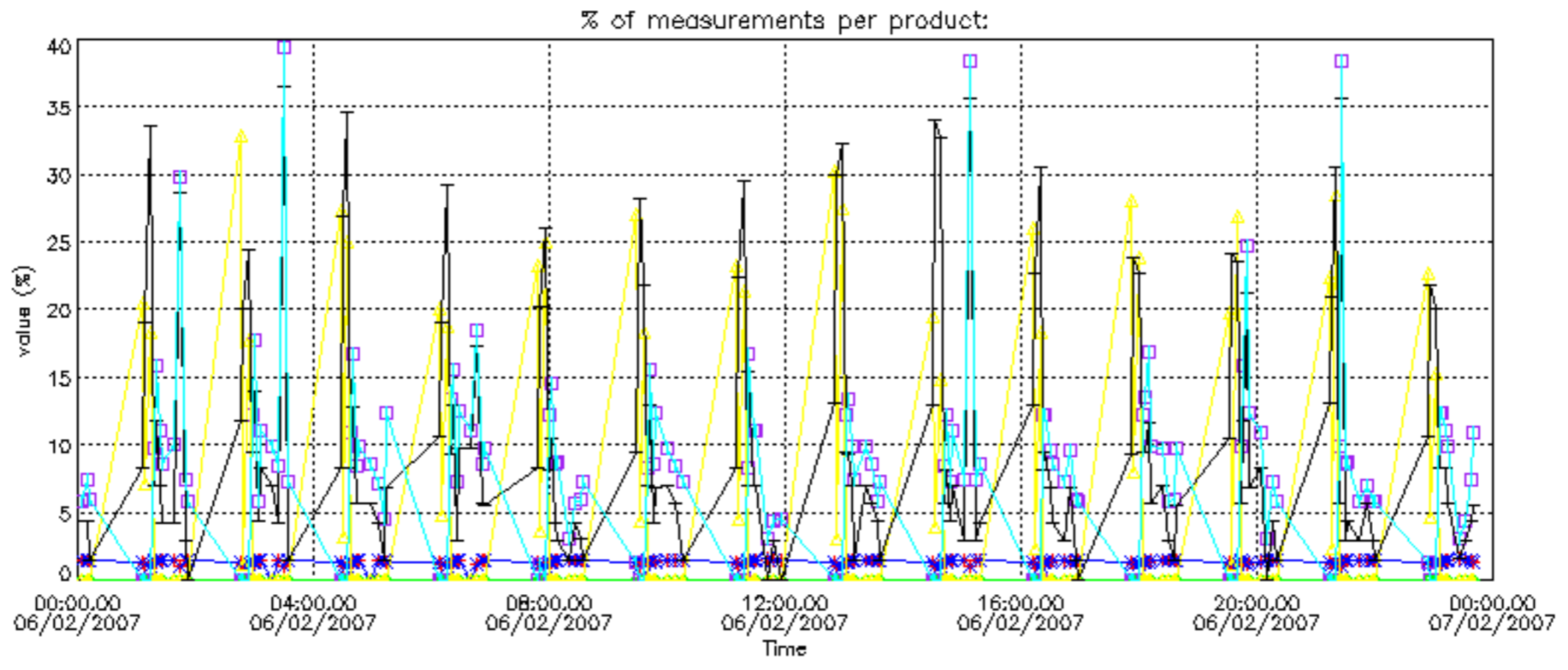
Percentage of flagged data per NO2 profile



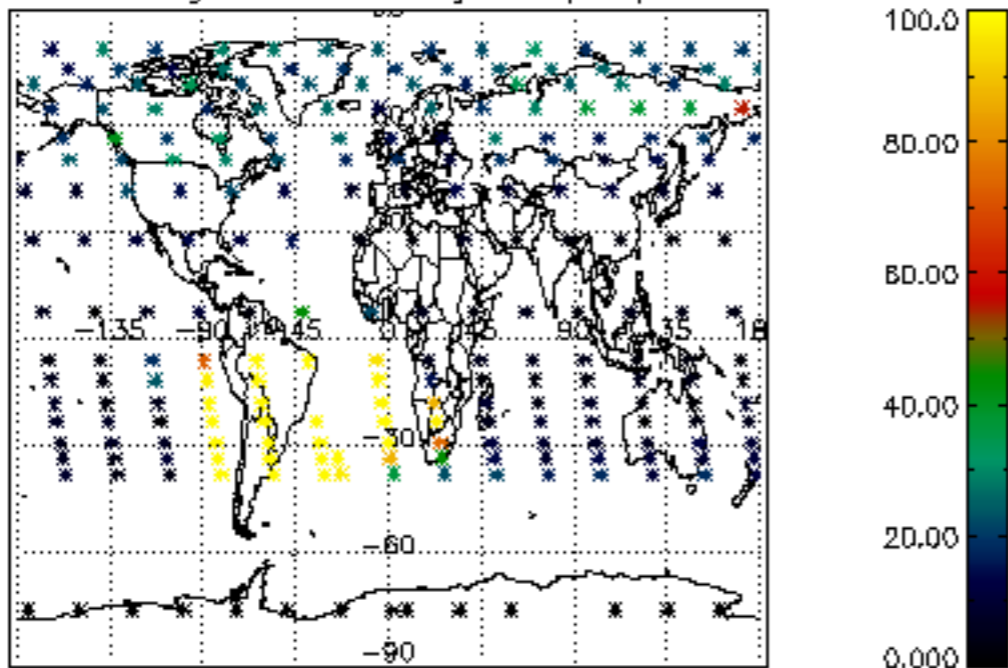
Percentage of flagged data per NO3 profile



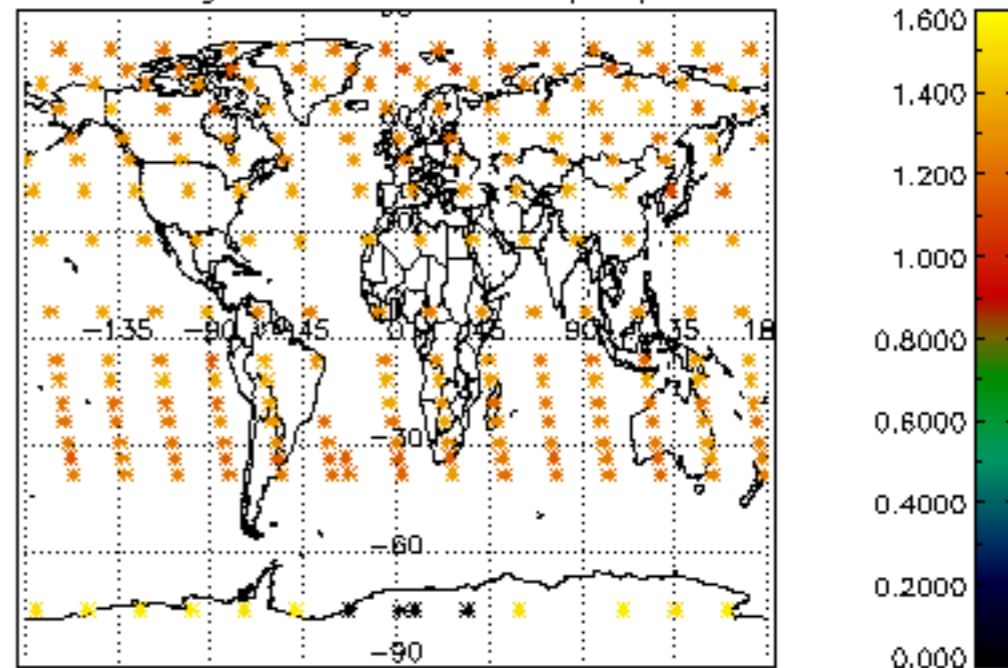




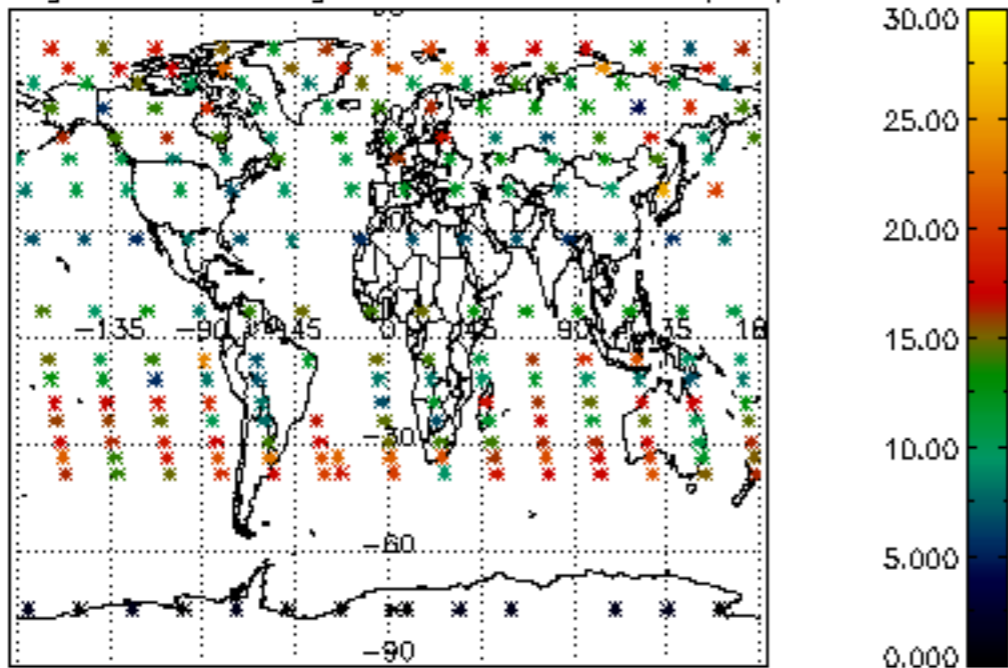
Percentage of cosmic ray hits per profile



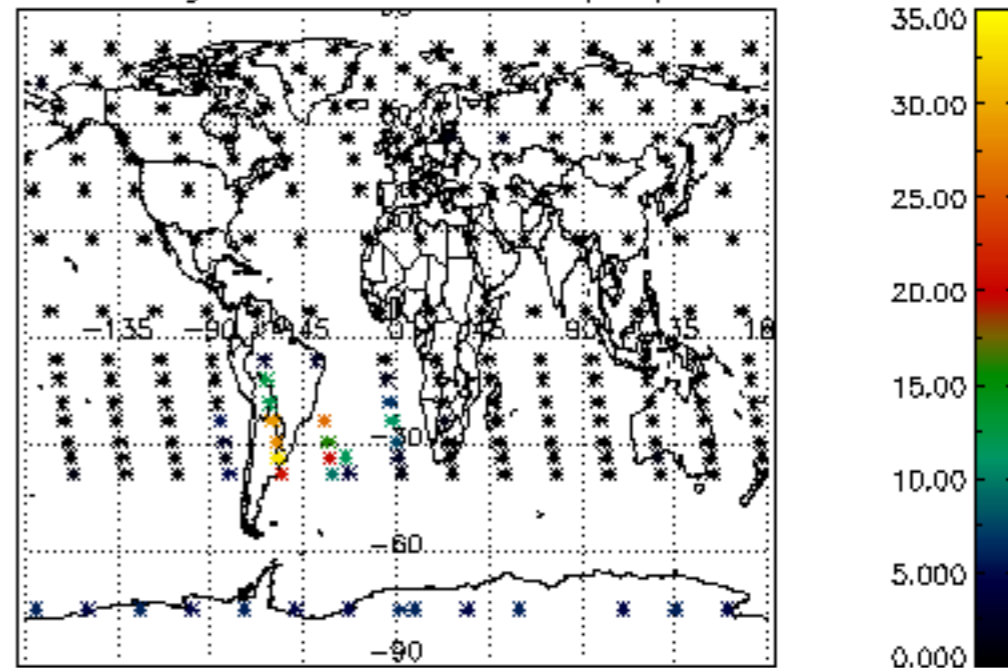
Percentage of datation errors per profile



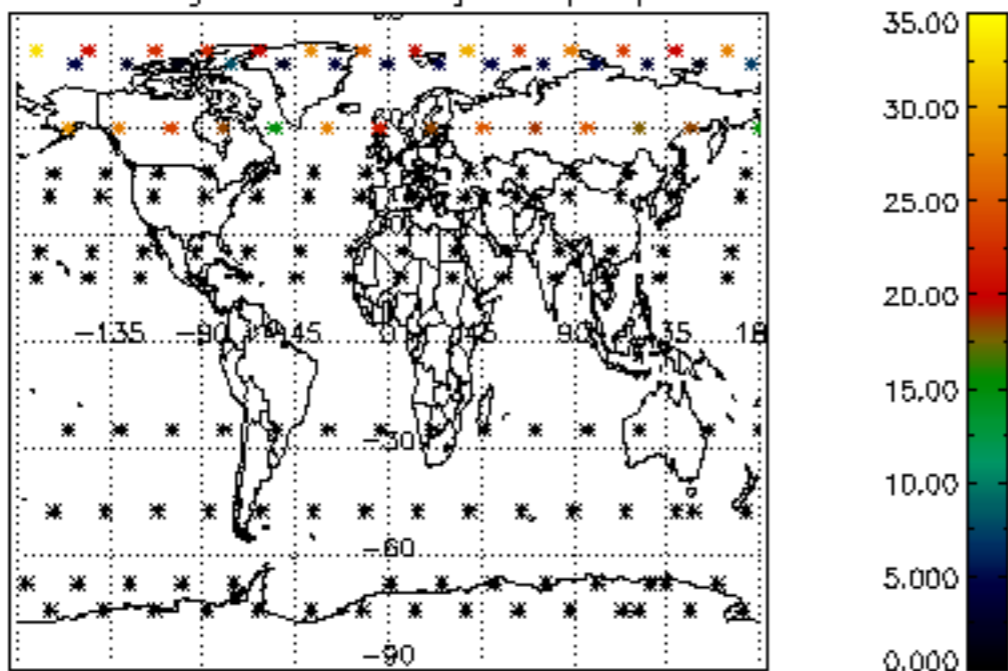
Percentage of star falling outside central band per profile



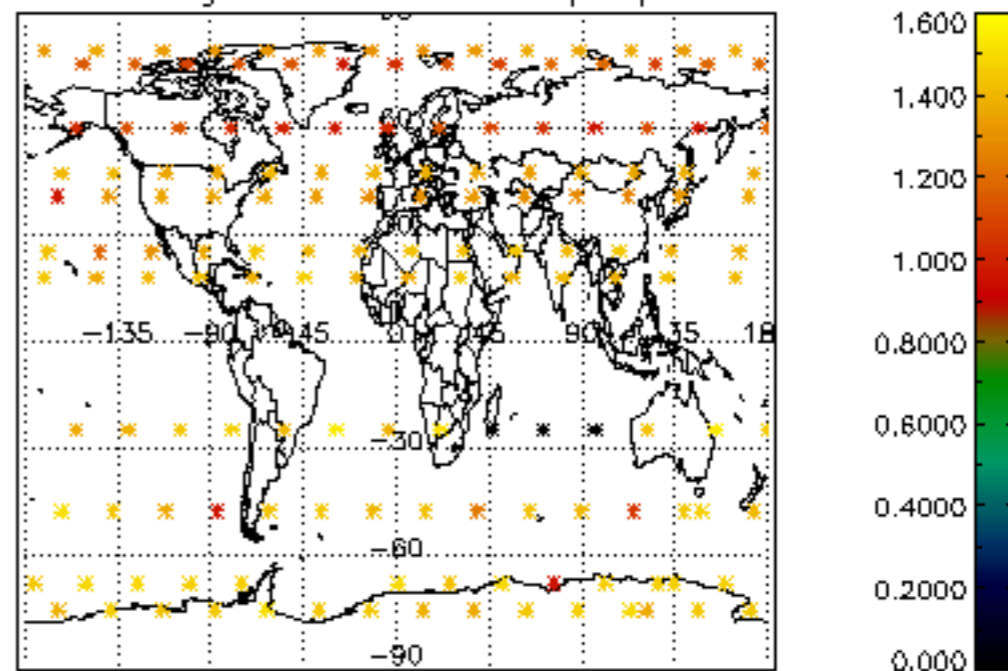
Percentage of saturation errors per profile



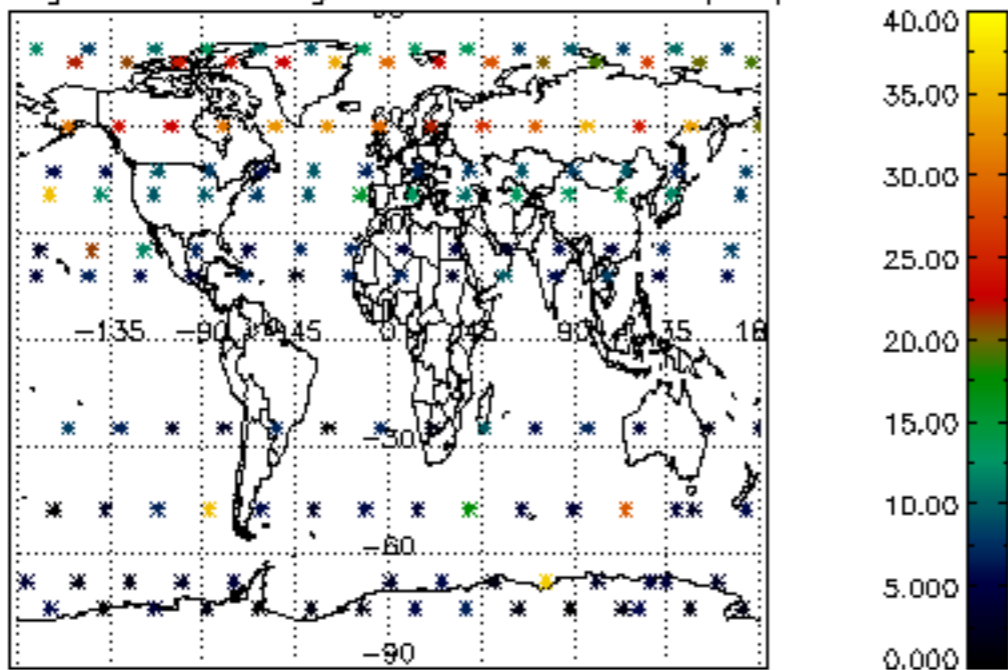
Percentage of cosmic ray hits per profile



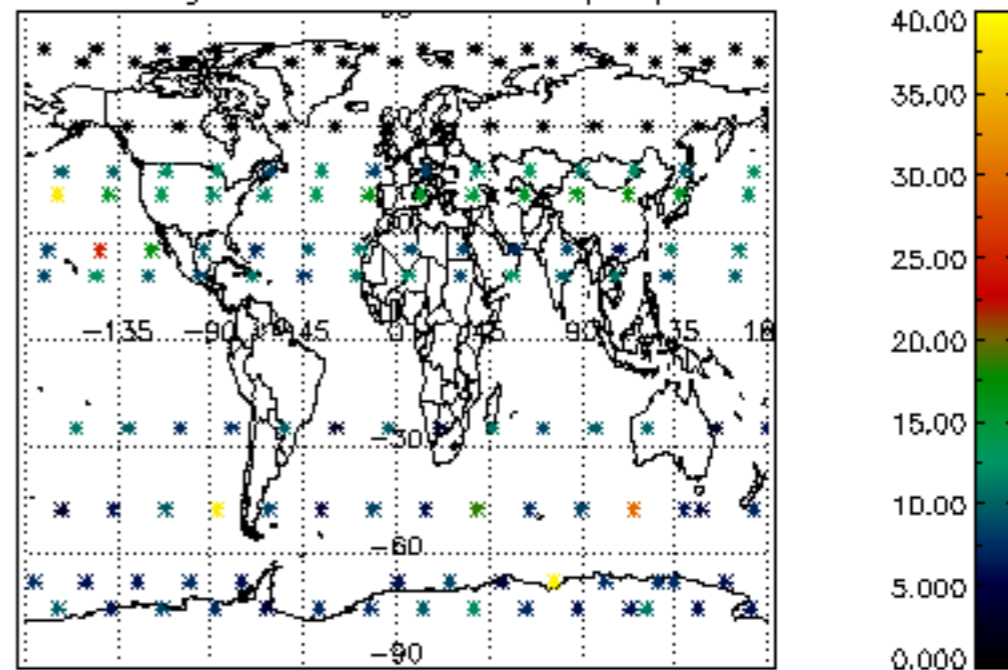
Percentage of datation errors per profile

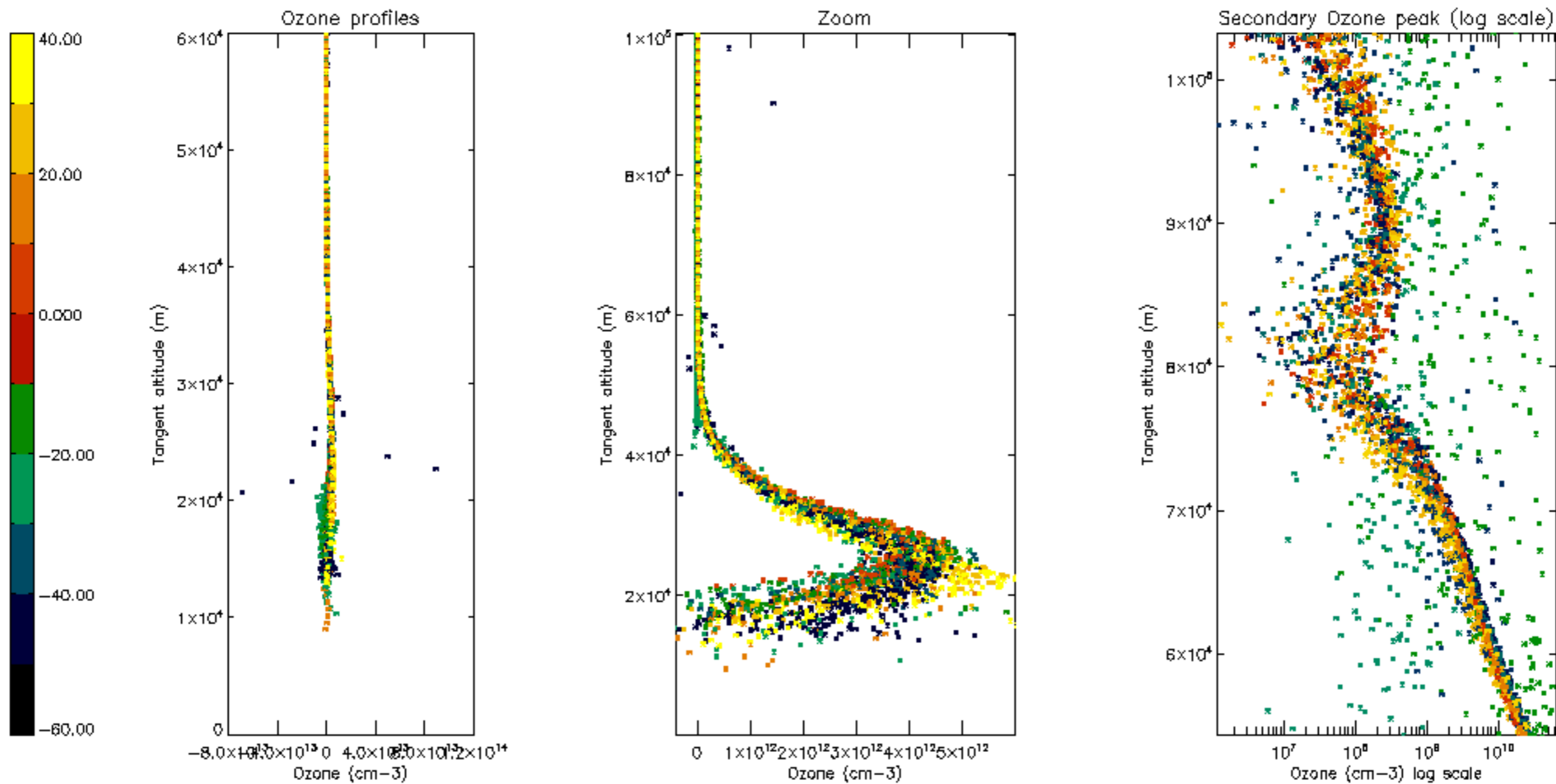


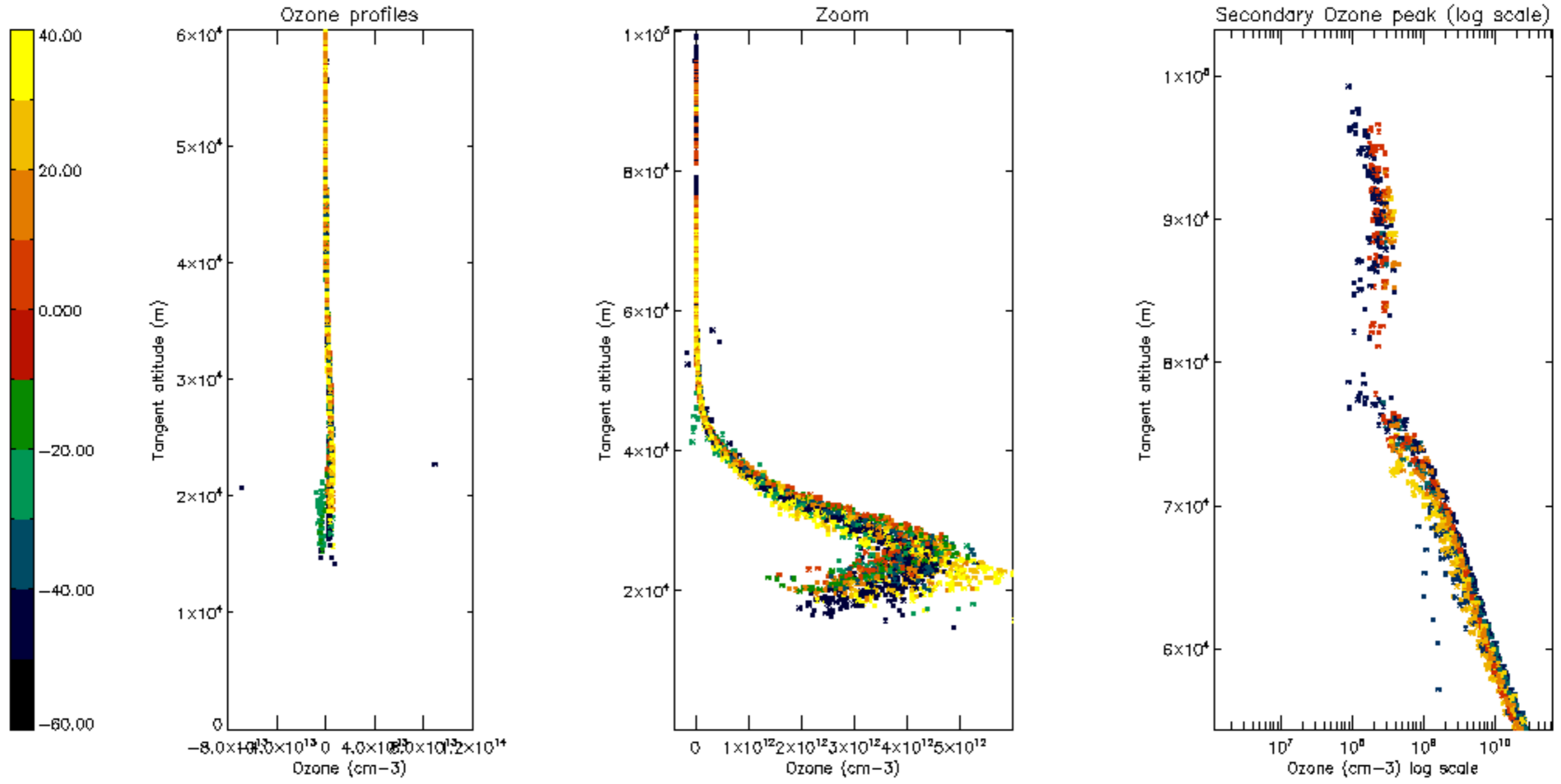
Percentage of star falling outside central band per profile

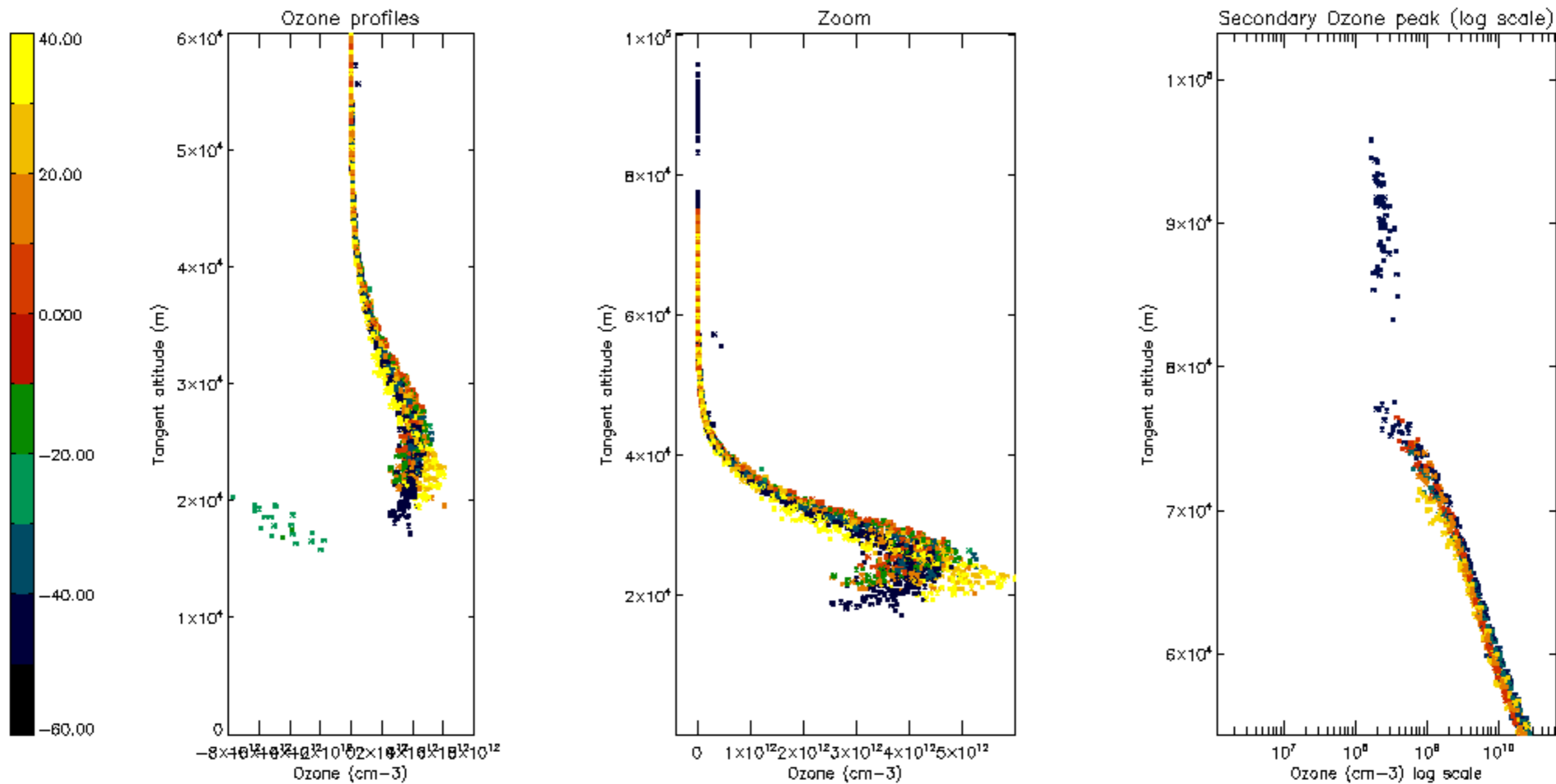


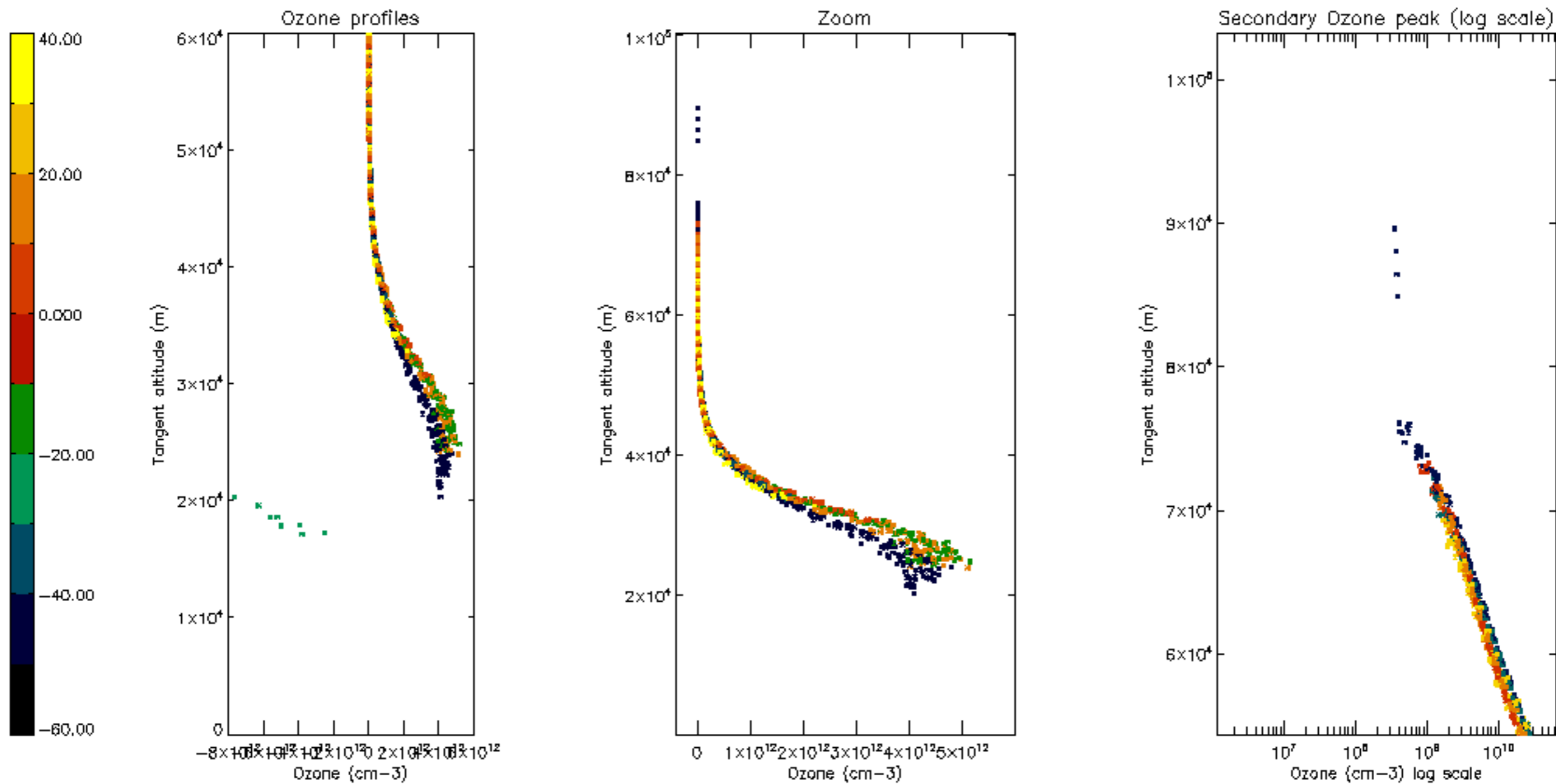
Percentage of saturation errors per profile

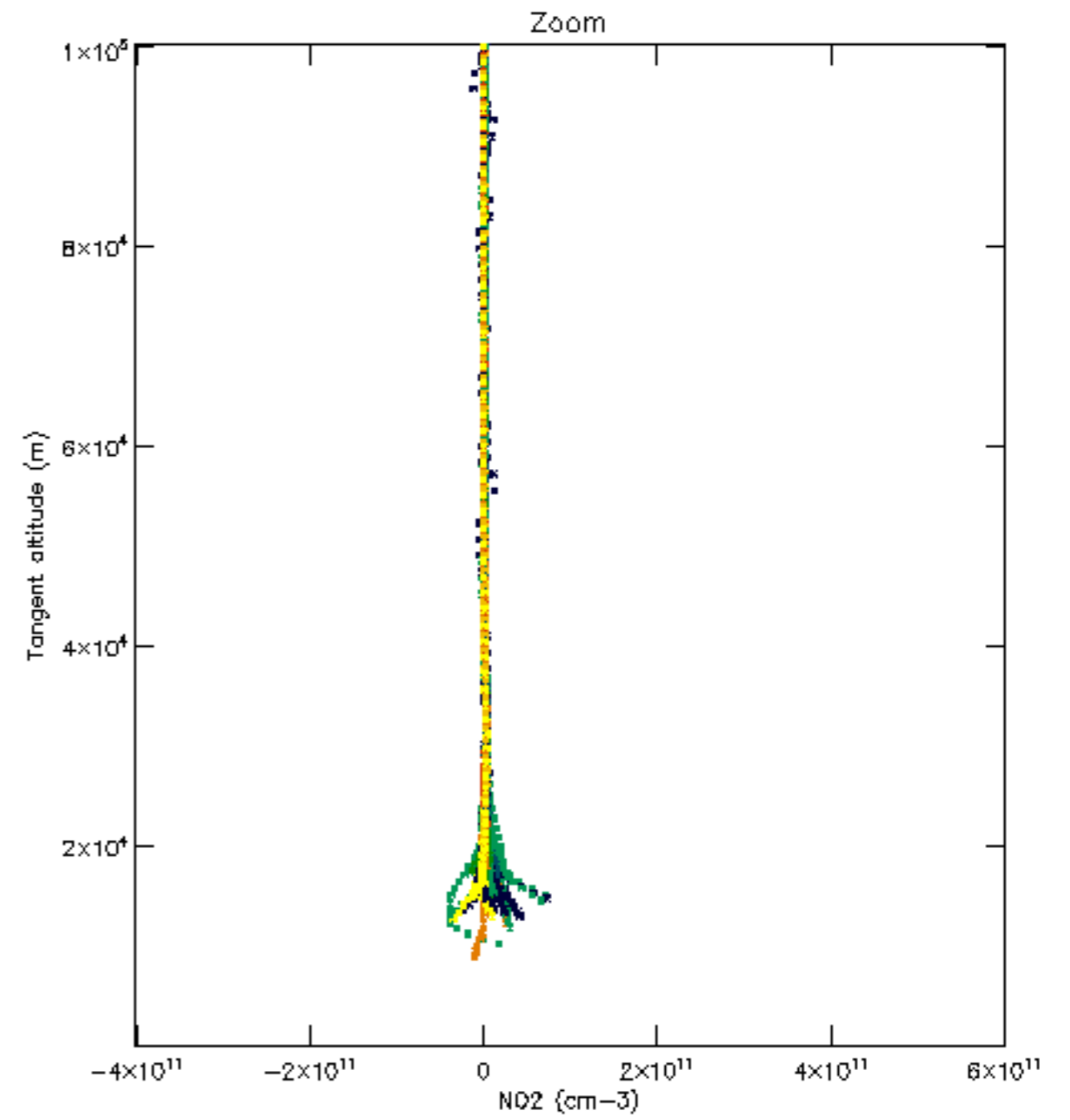
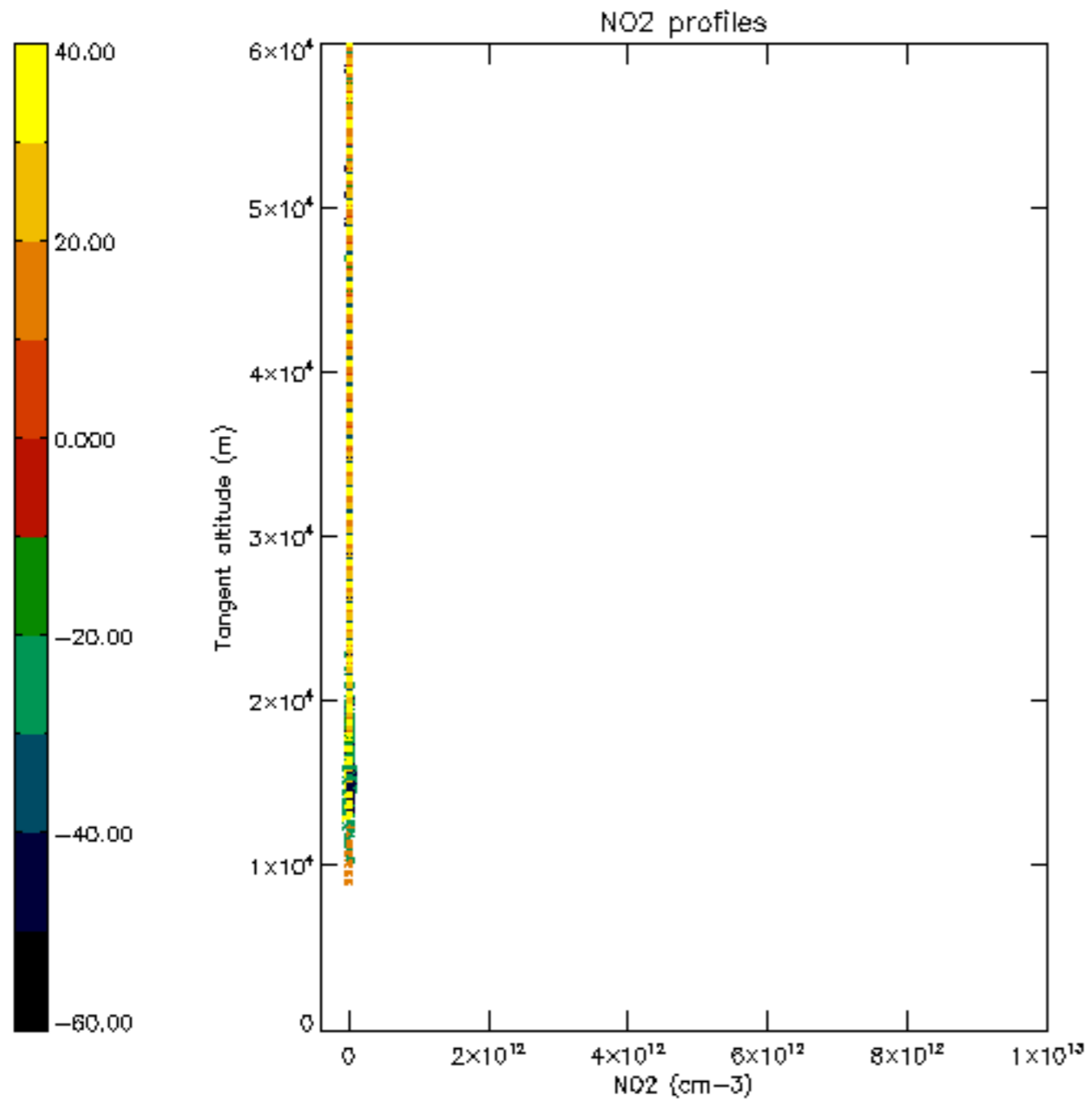


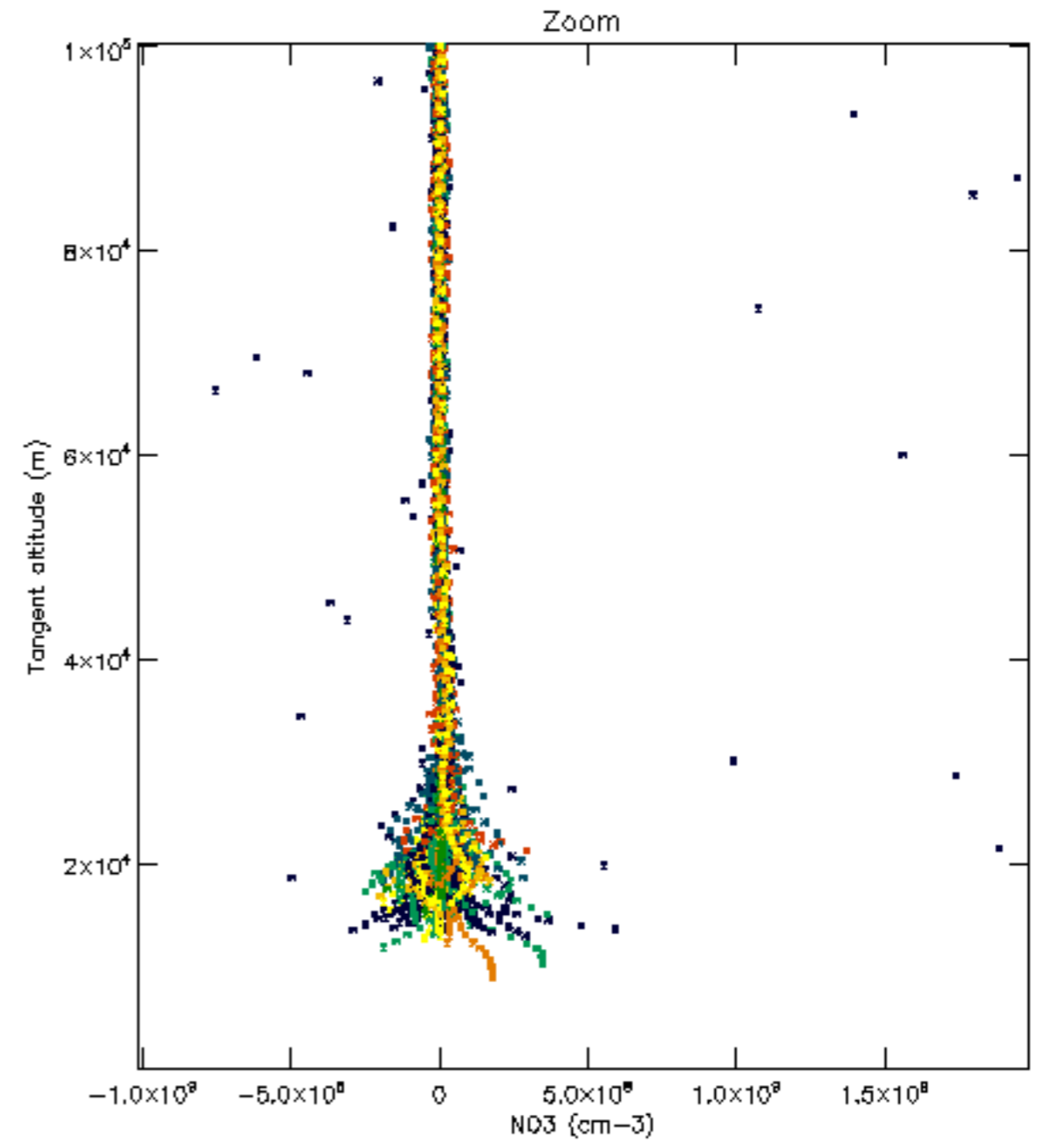
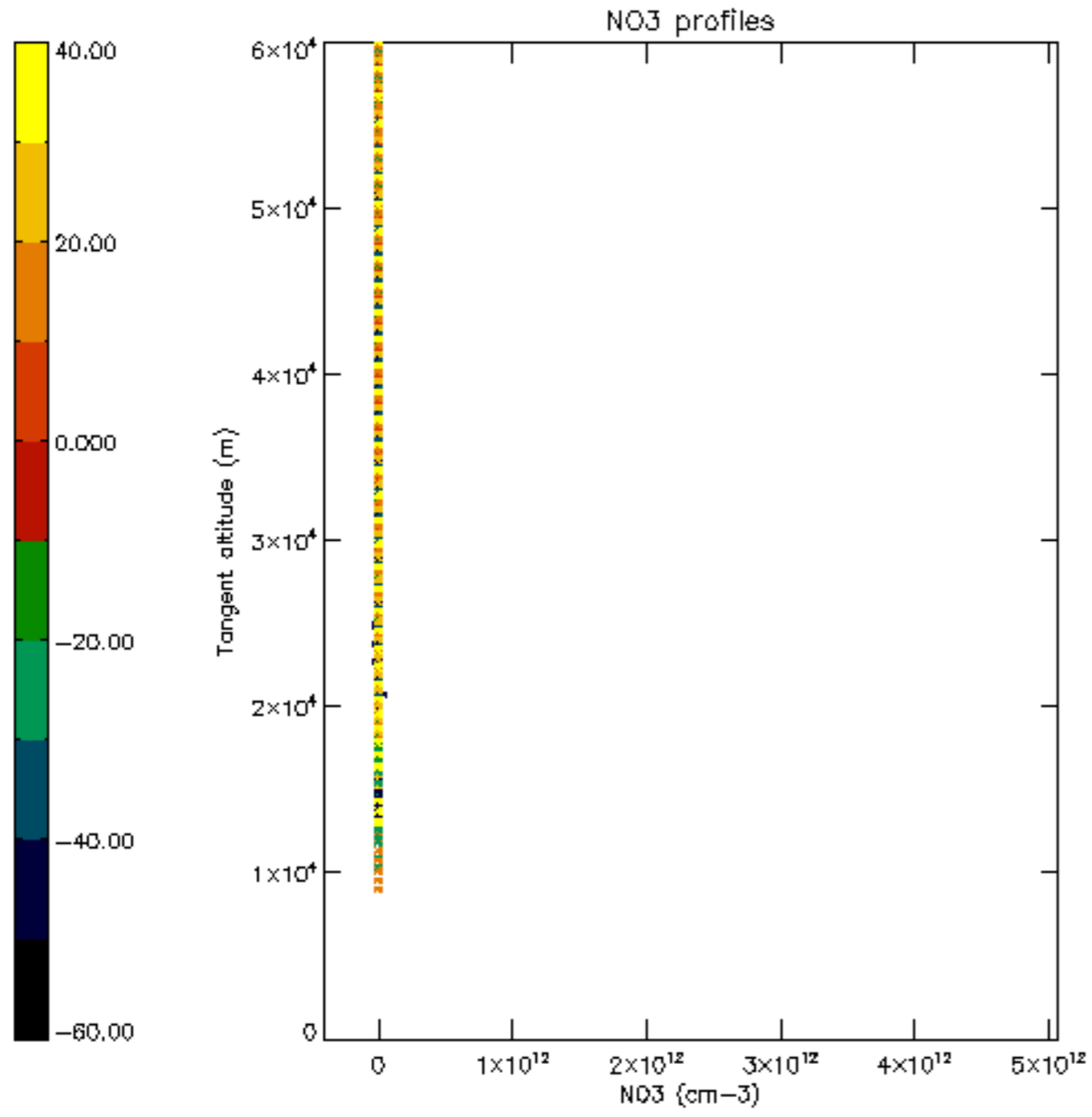


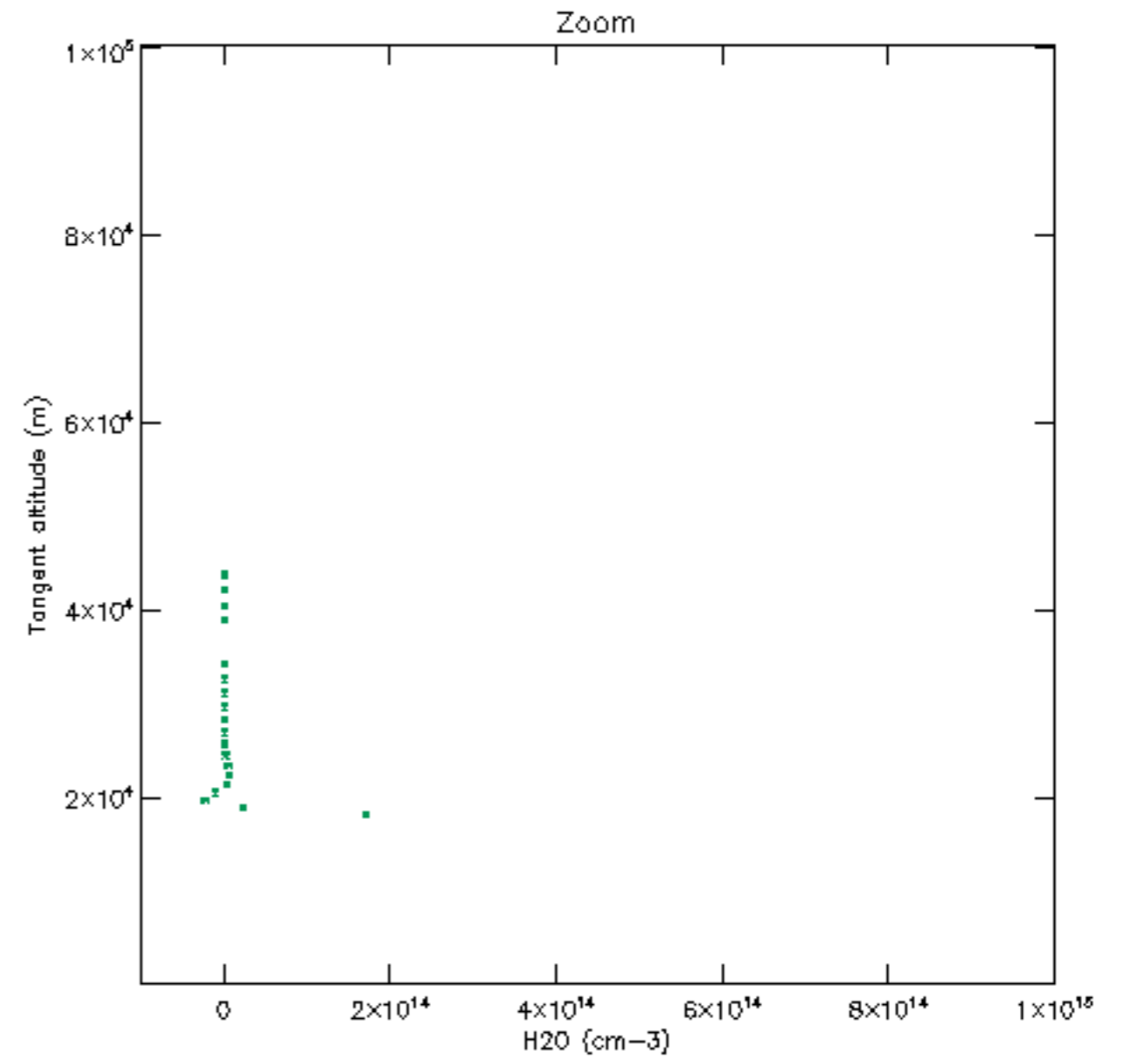
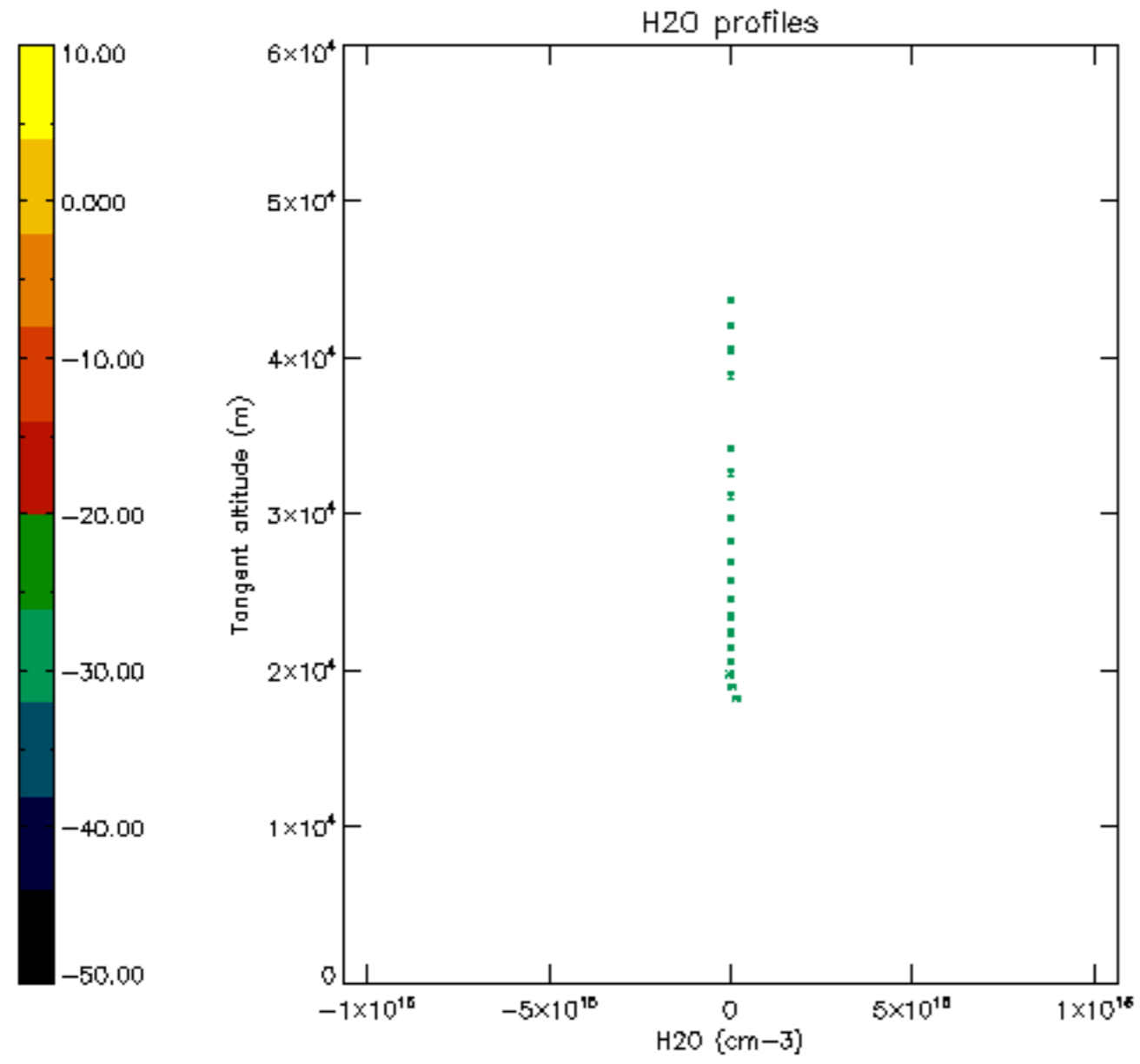


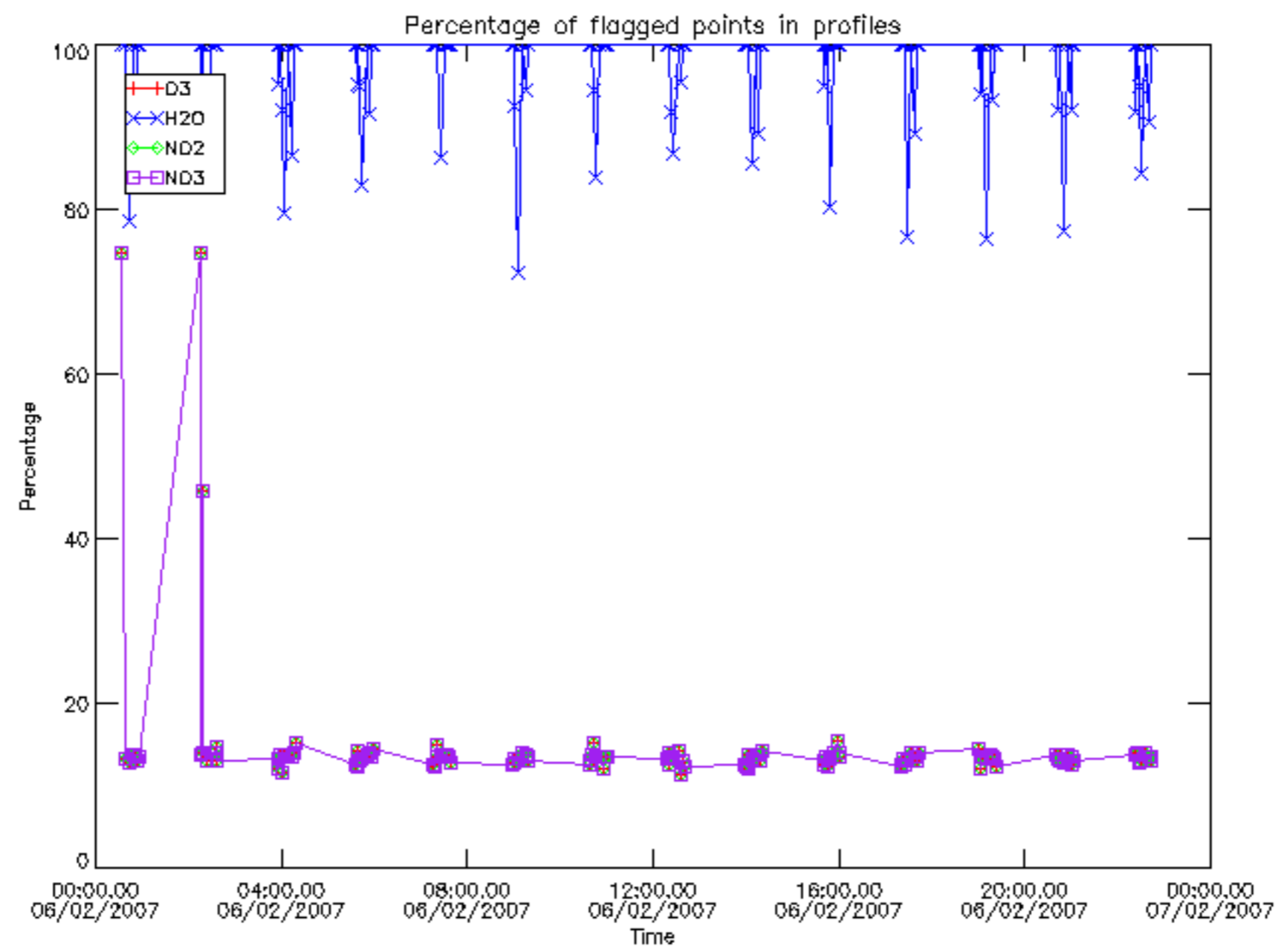




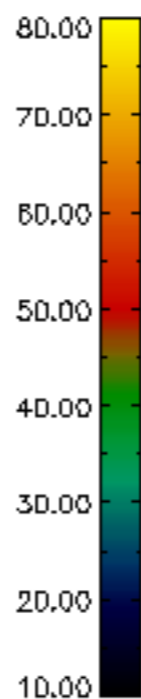
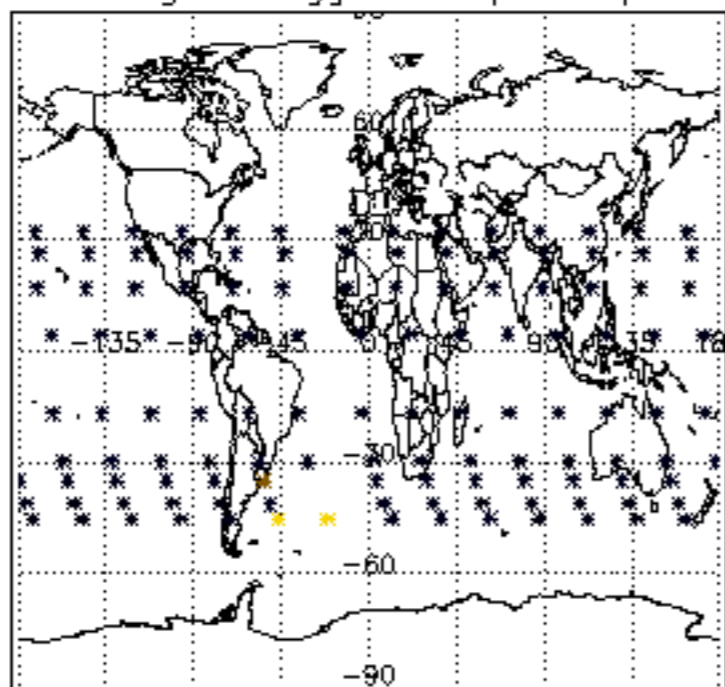




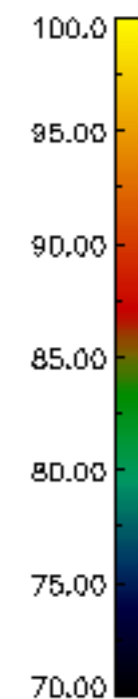
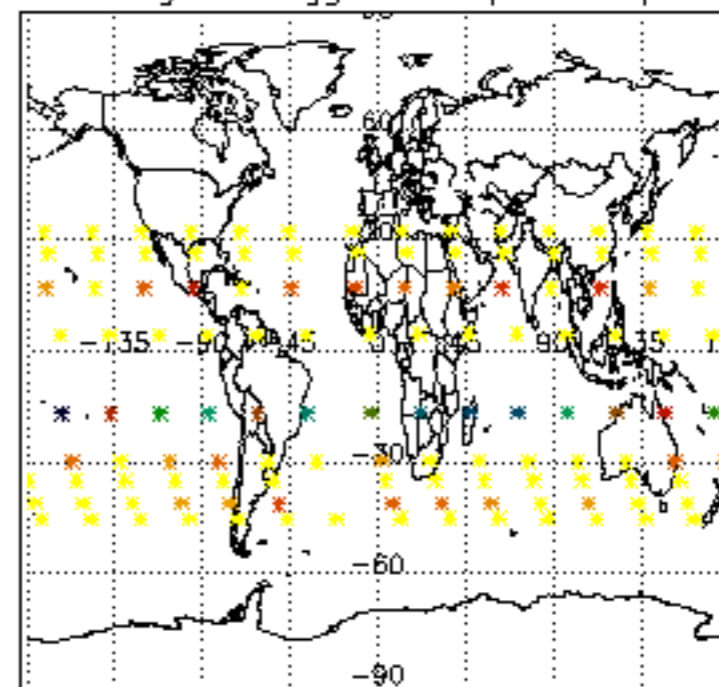




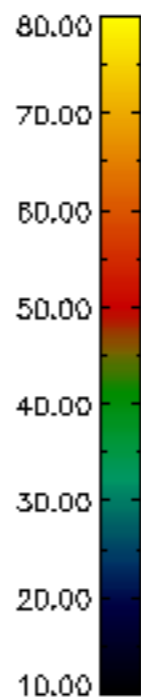
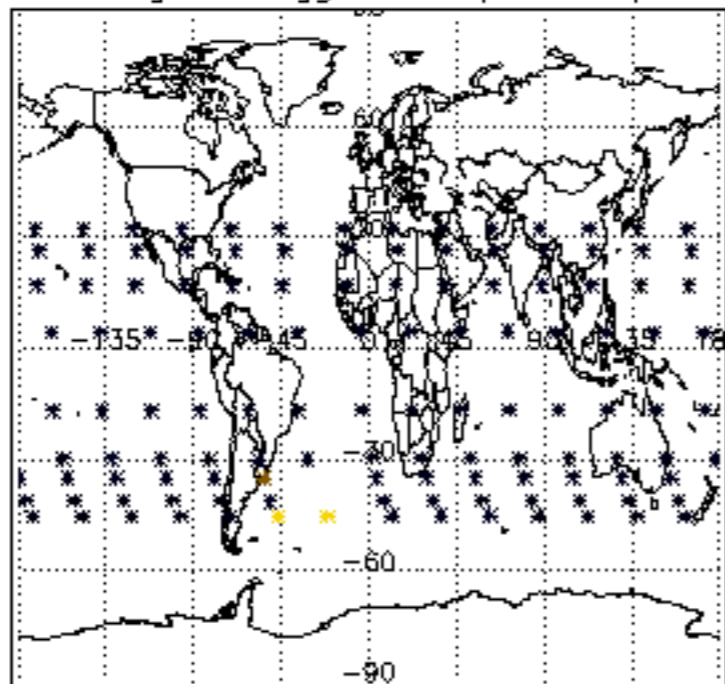
Percentage of flagged data per D3 profile



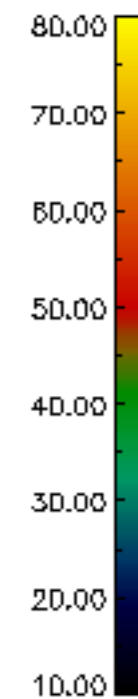
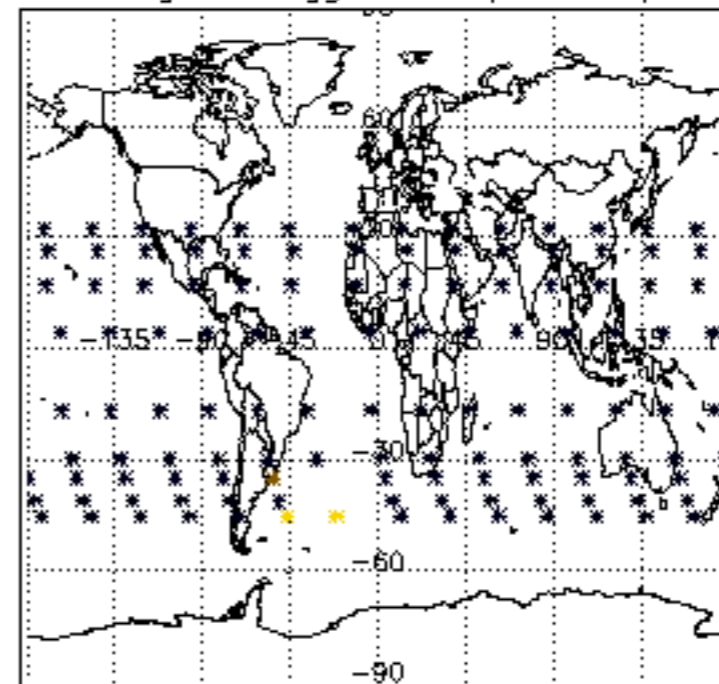
Percentage of flagged data per H2O profile

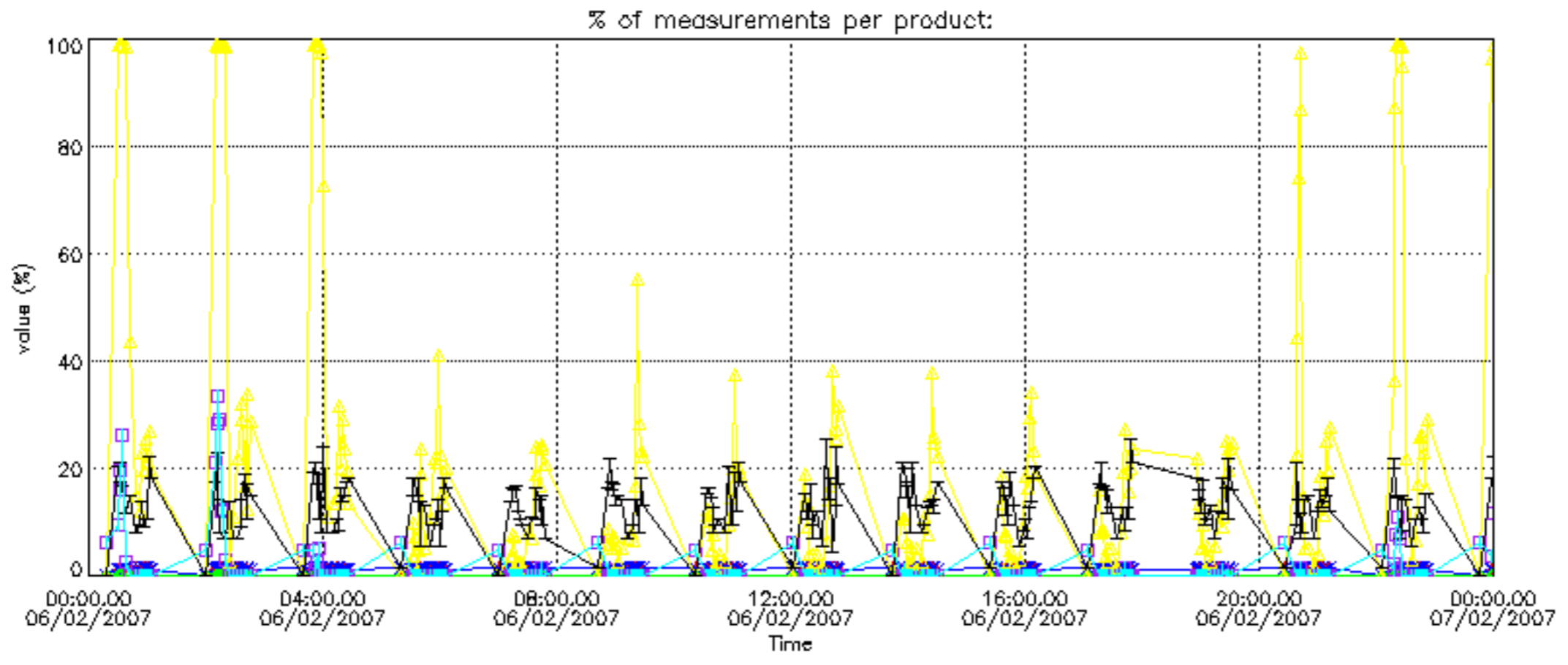


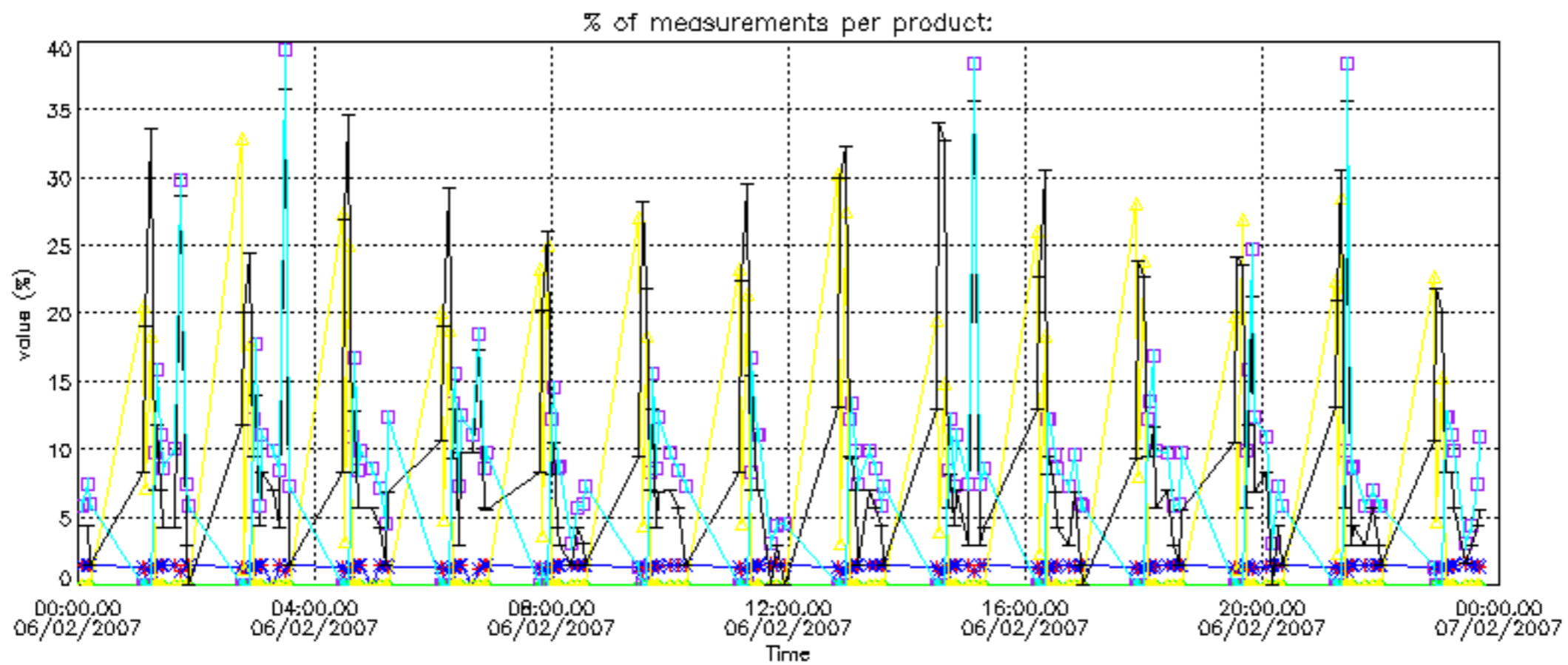
Percentage of flagged data per NO2 profile



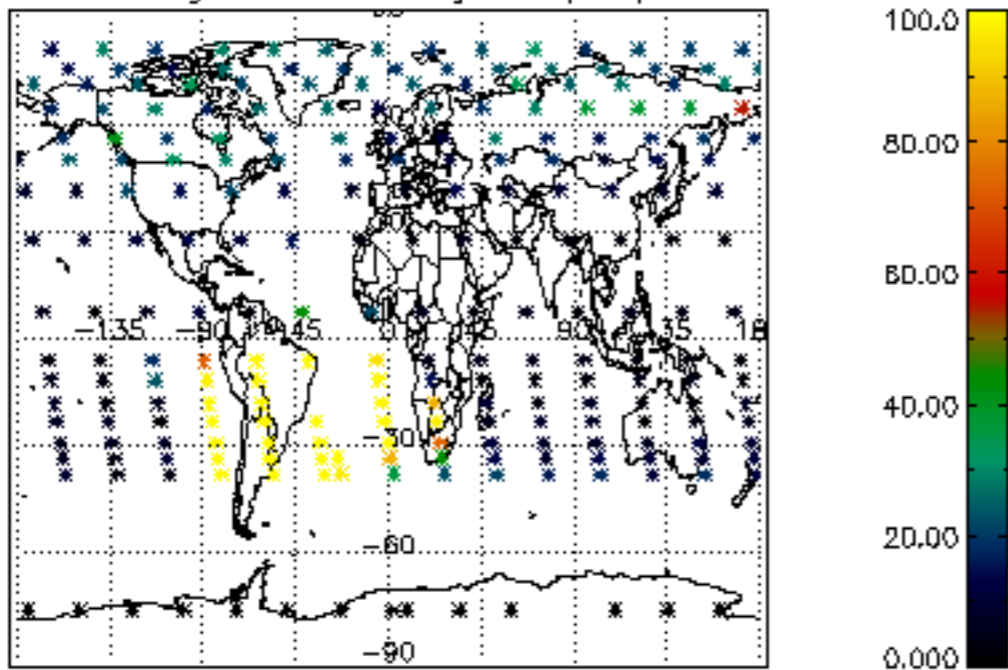
Percentage of flagged data per NO3 profile



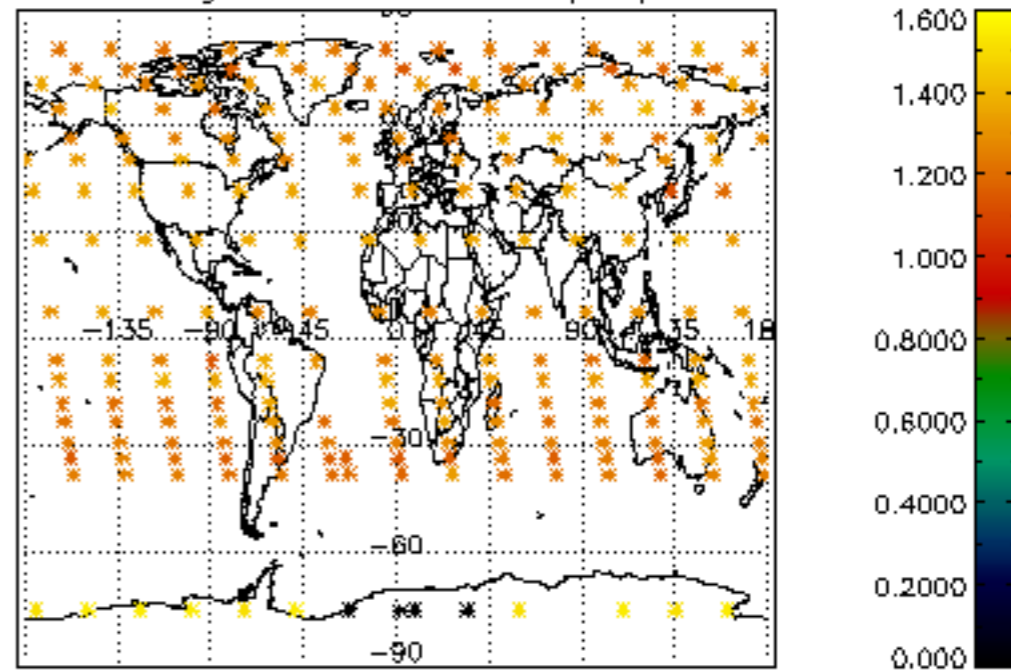




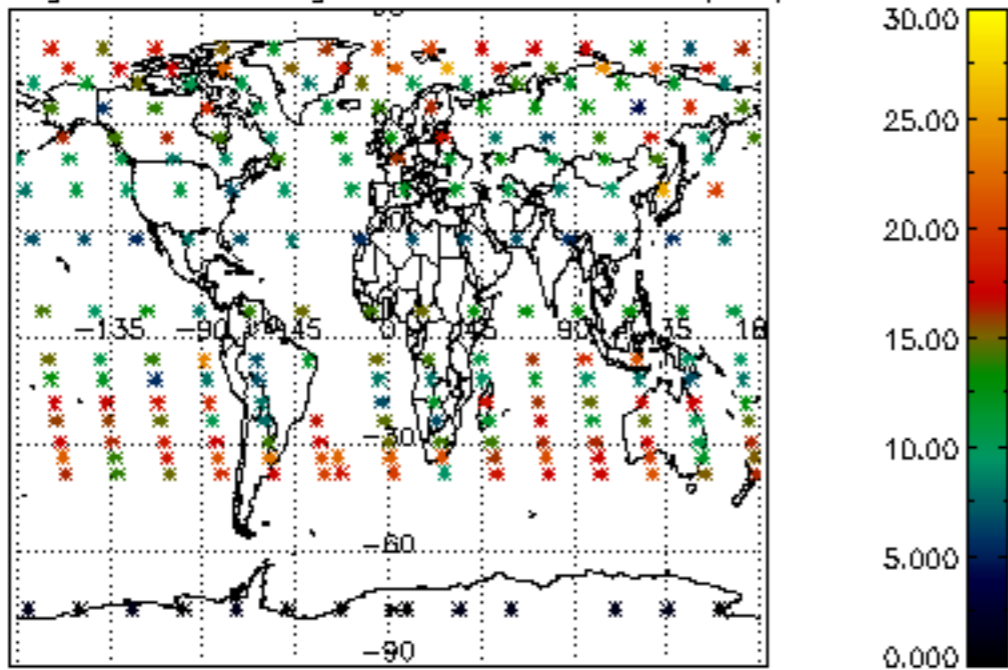
Percentage of cosmic ray hits per profile



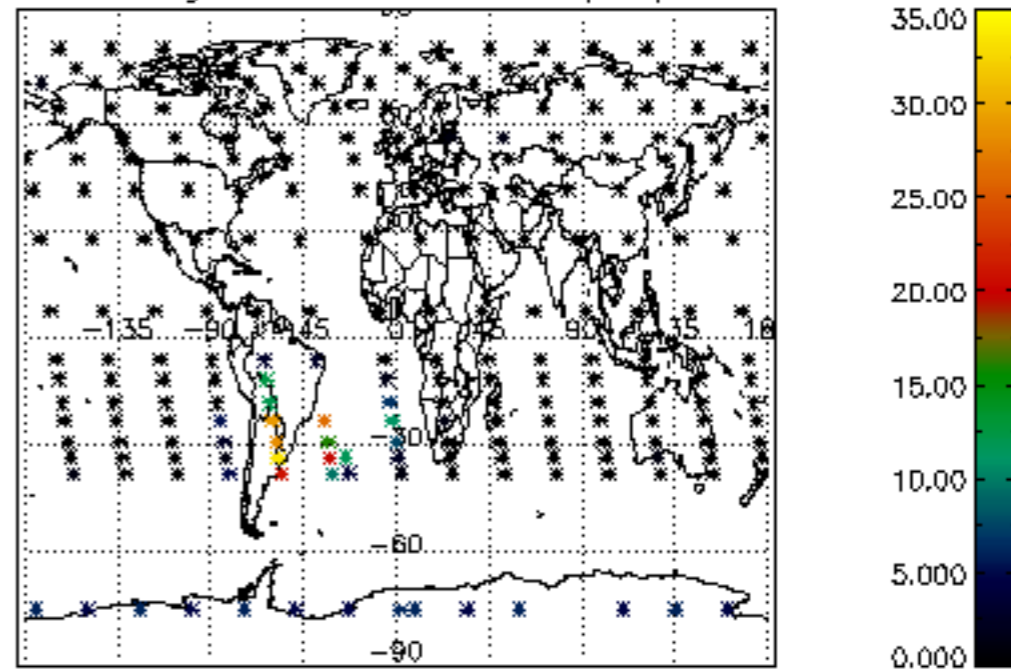
Percentage of datation errors per profile



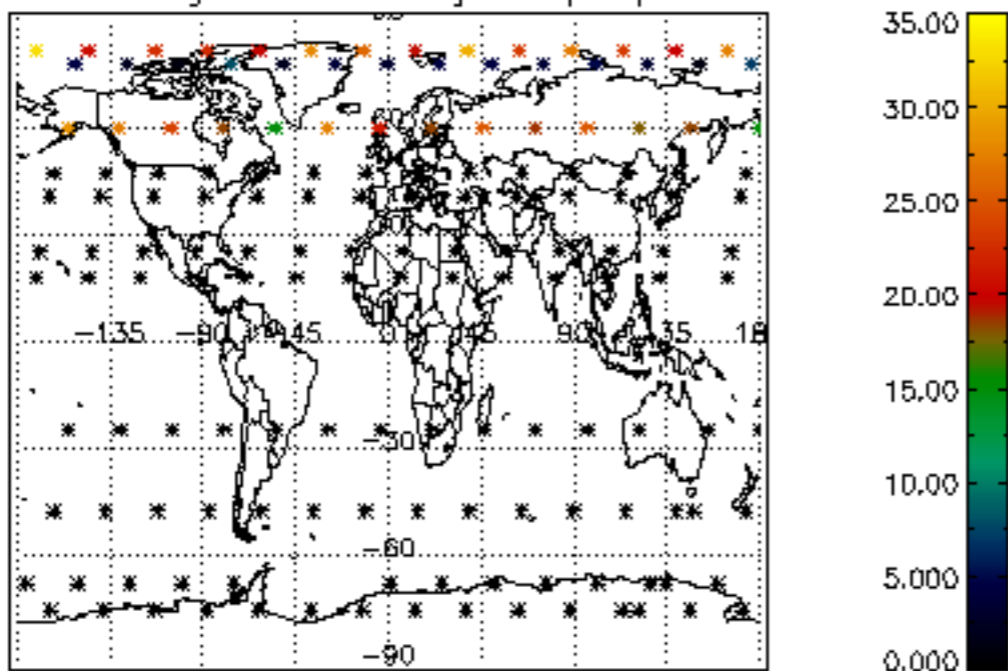
Percentage of star falling outside central band per profile



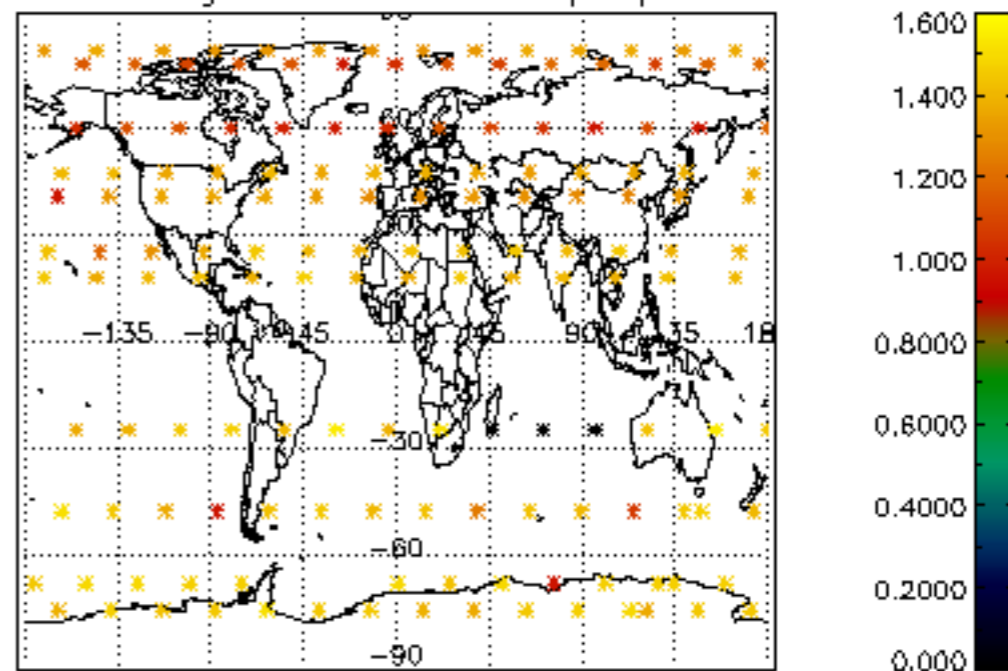
Percentage of saturation errors per profile



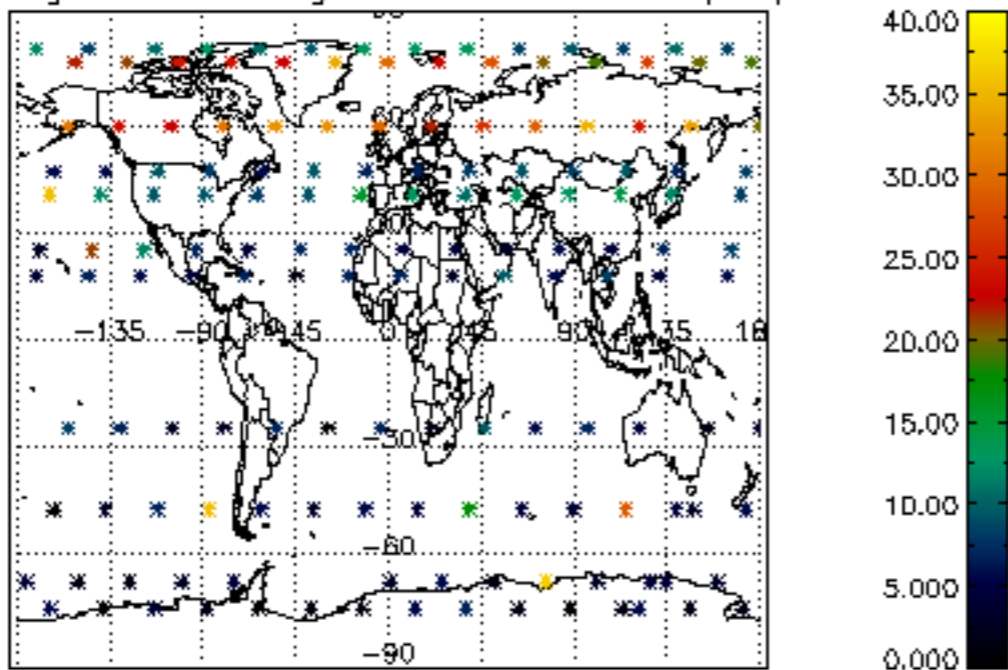
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

