

GOMOS Level 2 Daily Report

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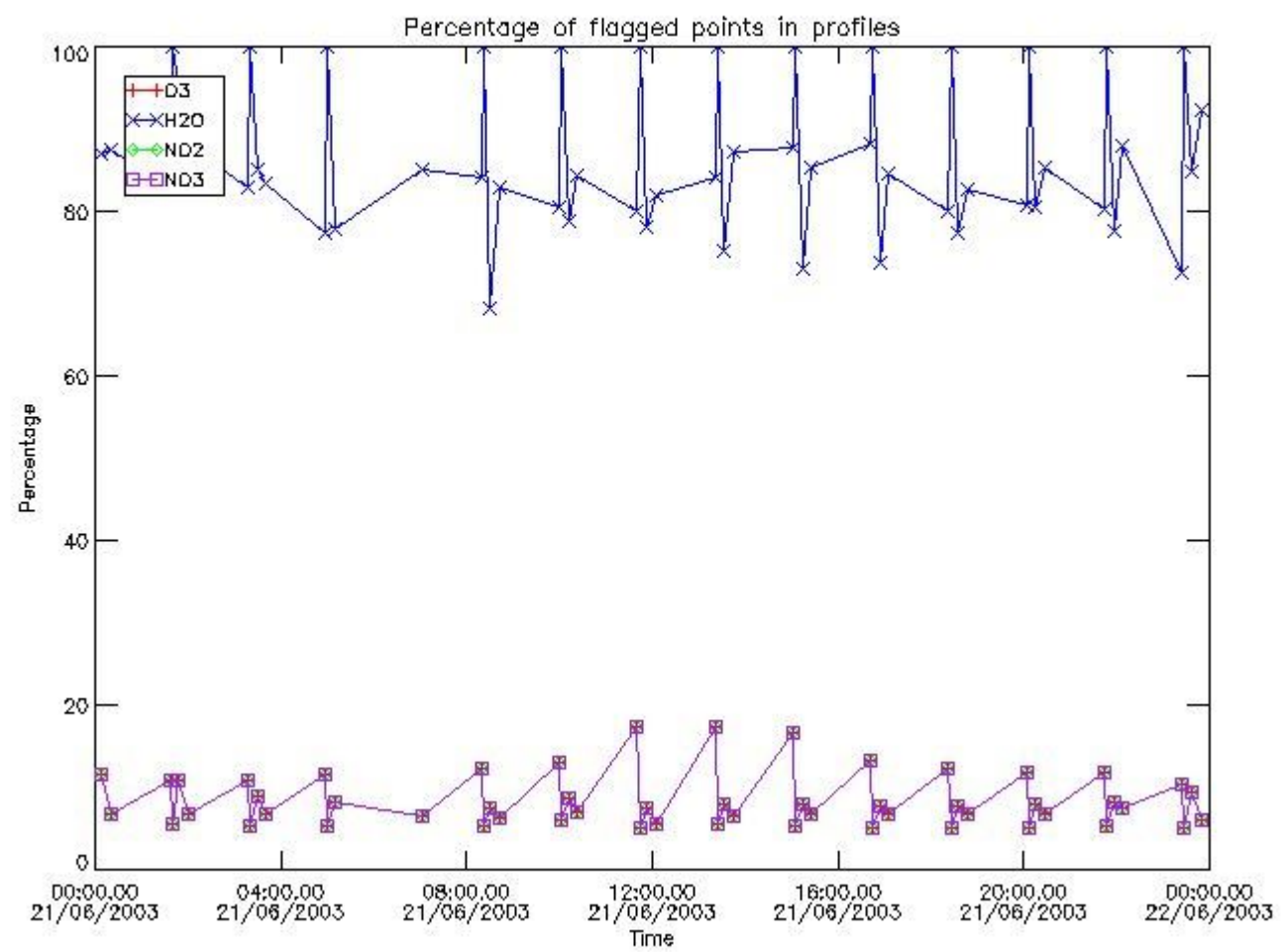
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279	GOM_NL__2PRFIN20030621_221022_000000512017_00273_06840_6508.N1	21-JUN-2003 22:10:22	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	6840	No
280	GOM_NL__2PRFIN20030621_221341_000000412017_00273_06840_6509.N1	21-JUN-2003 22:13:41	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	6840	No
281	GOM_NL__2PRFIN20030621_222308_000000472017_00273_06840_6510.N1	21-JUN-2003 22:23:08	Twilight	46.500	25	35Lam Sco	1.6200	28000.	93	6840	No
282	GOM_NL__2PRFIN20030621_222428_000000472017_00273_06840_6511.N1	21-JUN-2003 22:24:28	Twilight	47.000	116	19Del Sgr	2.7000	4100.0	94	6840	No
283	GOM_NL__2PRFIN20030621_222639_000000522017_00273_06840_6512.N1	21-JUN-2003 22:26:39	Bright	51.500	155	41Pi Sgr	2.9000	6600.0	103	6840	No
284	GOM_NL__2PRFIN20030621_222932_000000392017_00273_06840_6513.N1	21-JUN-2003 22:29:32	Bright	38.500	86	35Eta Oph	2.4300	10200.	77	6840	No
285	GOM_NL__2PRFIN20030621_223540_000000412017_00273_06840_6514.N1	21-JUN-2003 22:35:40	Bright	41.000	126	60Bet Oph	2.7700	4250.0	82	6840	No
286	GOM_NL__2PRFIN20030621_223806_000000412017_00273_06840_6515.N1	21-JUN-2003 22:38:06	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	6840	No
287	GOM_NL__2PRFIN20030621_224022_000000382017_00273_06840_6516.N1	21-JUN-2003 22:40:22	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	6840	No
288	GOM_NL__2PRFIN20030621_224317_000000382017_00273_06840_6517.N1	21-JUN-2003 22:43:17	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	6840	No
289	GOM_NL__2PRFIN20030621_224802_000000512017_00273_06840_6518.N1	21-JUN-2003 22:48:02	Bright	50.500	5	3Alp Lyr	0.033000	11000.	101	6840	No
290	GOM_NL__2PRFIN20030621_224948_000000372017_00273_06840_6519.N1	21-JUN-2003 22:49:48	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	6840	No
291	GOM_NL__2PRFIN20030621_225142_000000382017_00273_06840_6520.N1	21-JUN-2003 22:51:42	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	6840	No
292	GOM_NL__2PRFIN20030621_225954_000000362017_00273_06840_6521.N1	21-JUN-2003 22:59:54	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	6840	No
293	GOM_NL__2PRFIN20030621_230636_000000662017_00273_06840_6522.N1	21-JUN-2003 23:06:36	Bright	66.000	74	11Bet Cas	2.2680	6600.0	132	6840	No
294	GOM_NL__2PRFIN20030621_230806_000000482017_00273_06840_6523.N1	21-JUN-2003 23:08:06	Bright	47.500	68	18Alp Cas	2.2250	4500.0	95	6840	No
295	GOM_NL__2PRFIN20030621_231013_000000532017_00273_06840_6524.N1	21-JUN-2003 23:10:13	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	6840	No
296	GOM_NL__2PRFIN20030621_231339_000000442017_00273_06840_6525.N1	21-JUN-2003 23:13:39	Bright	44.000	73	57Gam1And	2.2600	13100.	88	6840	No
297	GOM_NL__2PRFIN20030621_231604_000000632017_00273_06840_6526.N1	21-JUN-2003 23:16:04	Twilight	62.500	53	43Bet And	2.0480	3300.0	125	6840	No
298	GOM_NL__2PRFIN20030621_231948_000000512017_00273_06840_6527.N1	21-JUN-2003 23:19:48	Twilight	51.000	50	13Alp Ari	2.0070	4250.0	102	6840	No
299	GOM_NL__2PRFIN20030621_232437_000000502017_00273_06840_6528.N1	21-JUN-2003 23:24:37	Dark	49.500	94	92Alp Cet	2.5260	3100.0	99	6840	No
300	GOM_NL__2PRFIN20030621_232742_000001002017_00273_06840_6529.N1	21-JUN-2003 23:27:42	Dark	100.00	140	88Gam Peg	2.8340	26000.	200	6840	No
301	GOM_NL__2PRFIN20030621_233645_000000602017_00273_06840_6530.N1	21-JUN-2003 23:36:45	Dark	60.000	52	16Bet Cet	2.0370	4500.0	120	6840	No
302	GOM_NL__2PRFIN20030621_234836_000000862017_00274_06841_6522.N1	21-JUN-2003 23:48:36	Dark	86.000	18	24Alp PsA	1.1660	9700.0	172	6841	No
303	GOM_NL__2PRFIN20030621_235059_000000492017_00274_06841_6523.N1	21-JUN-2003 23:50:59	Straylight	49.000	31	Alp Gru	1.7340	15200.	98	6841	No
304	GOM_NL__2PRFIN20030621_235417_000000422017_00274_06841_6524.N1	21-JUN-2003 23:54:17	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	6841	No

3. Quality information per product

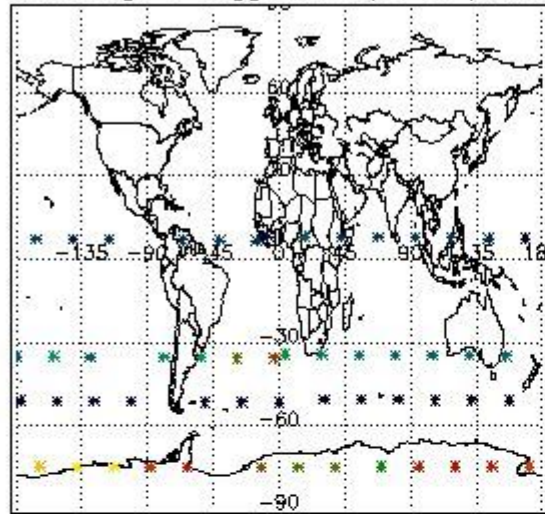
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

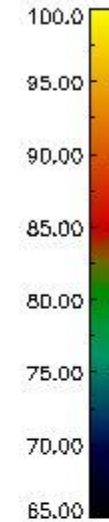
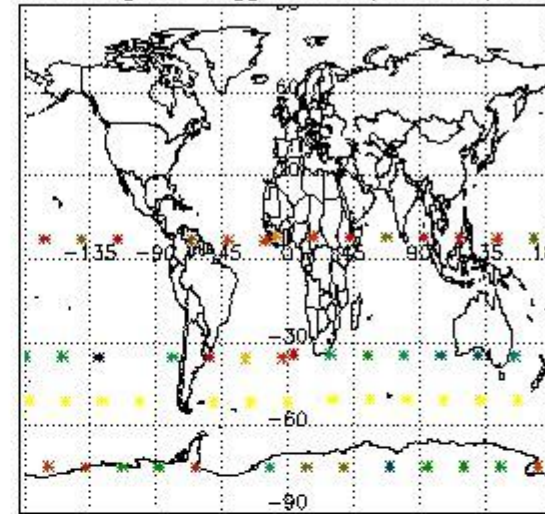


3.2 Plot quality information per product (world map)

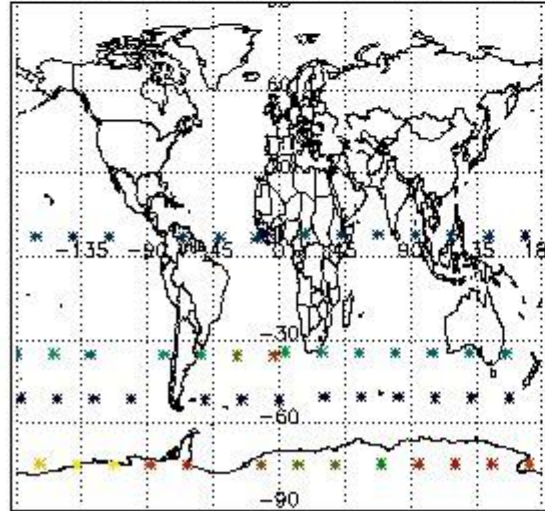
Percentage of flagged data per O3 profile



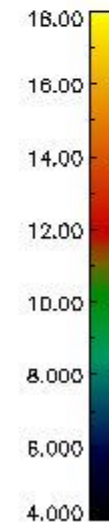
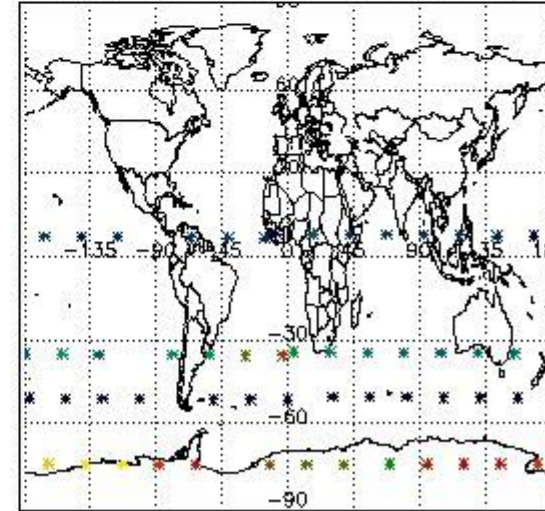
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

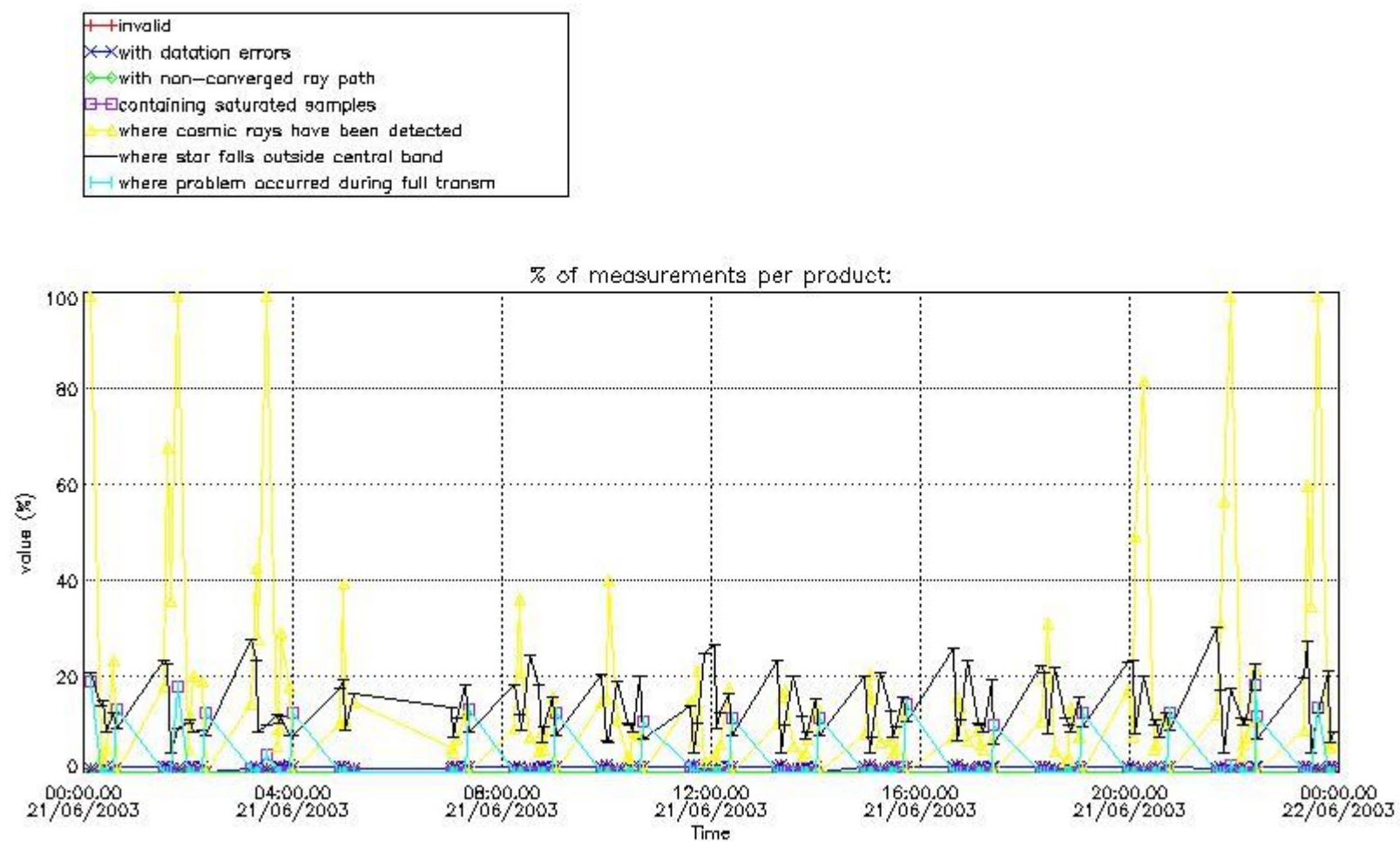


4. Level 1 quality information per product

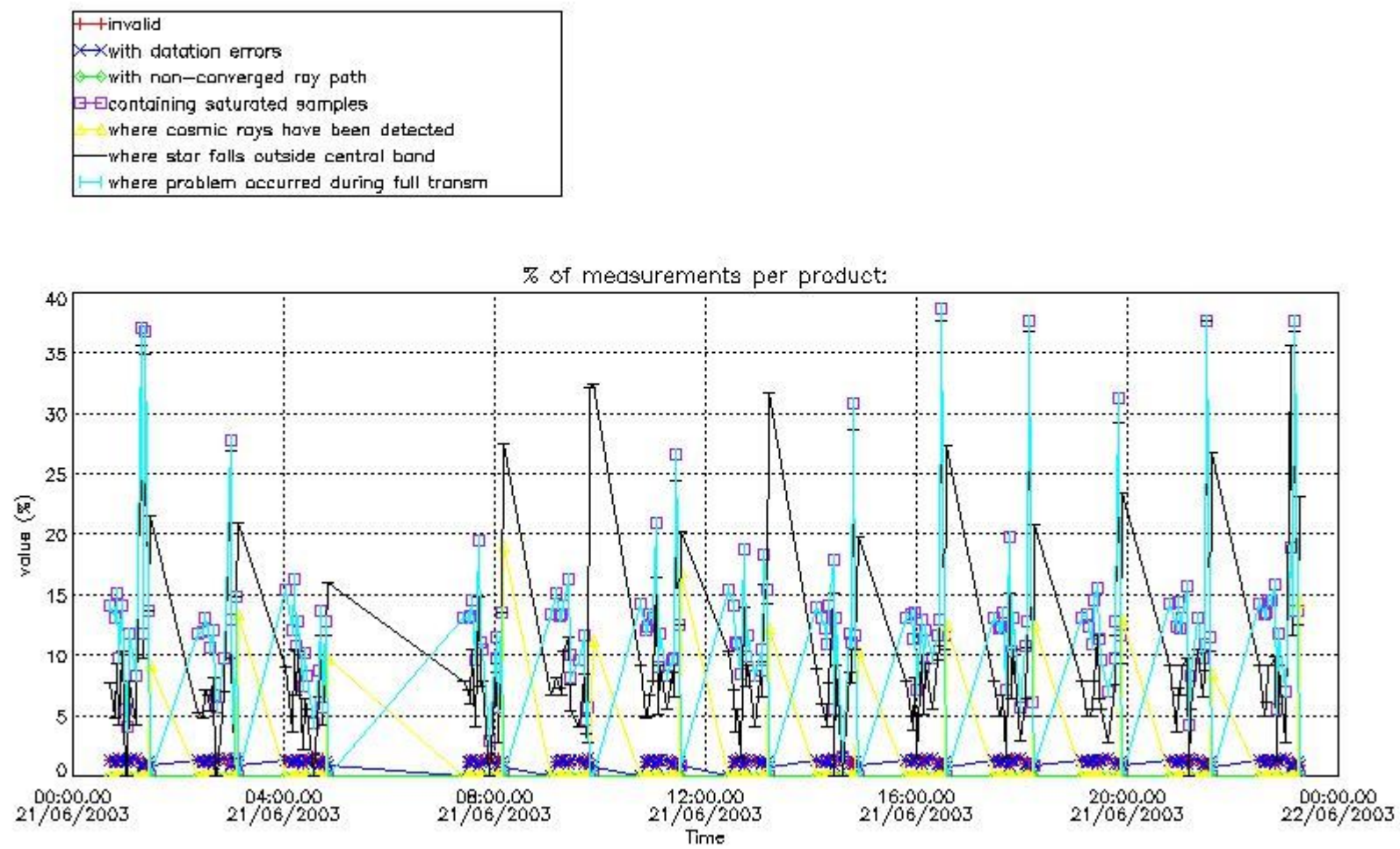
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

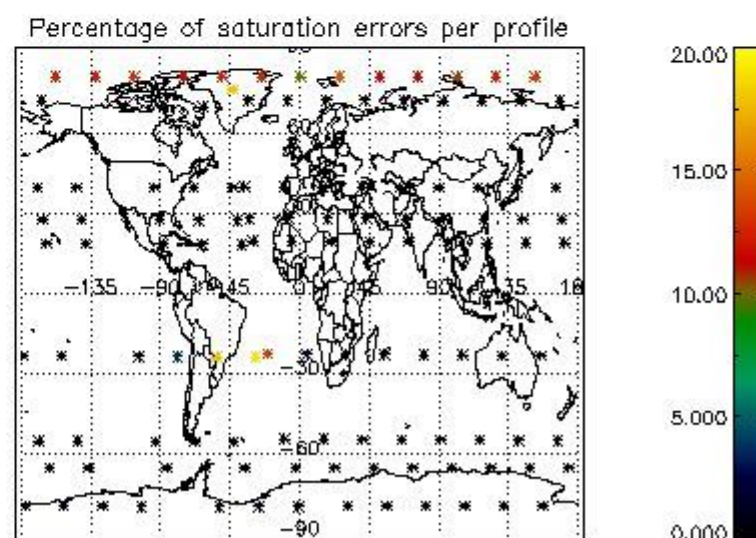
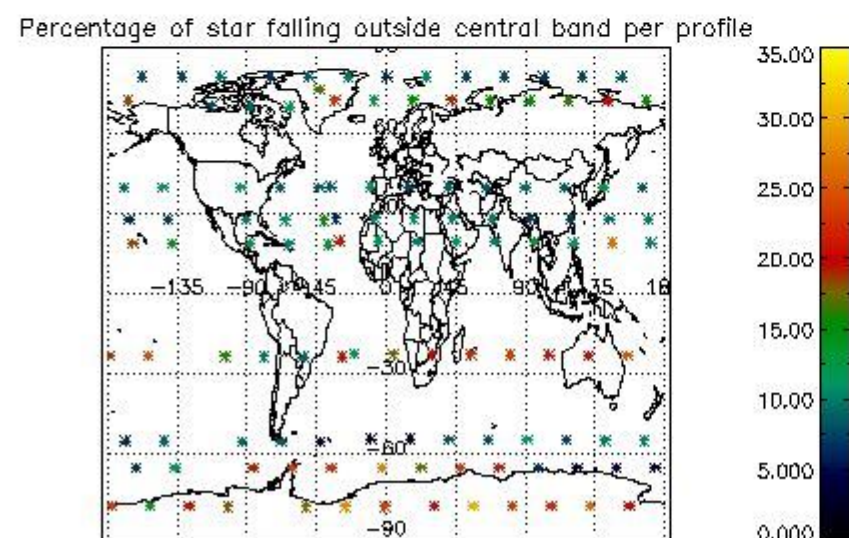
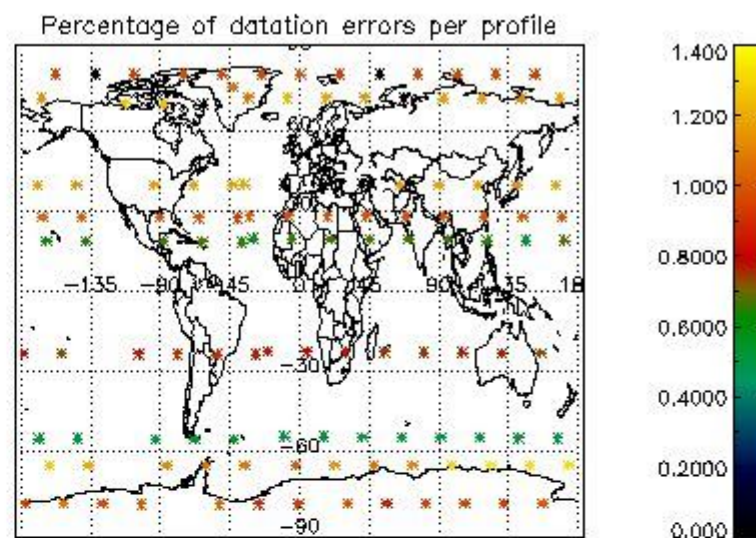
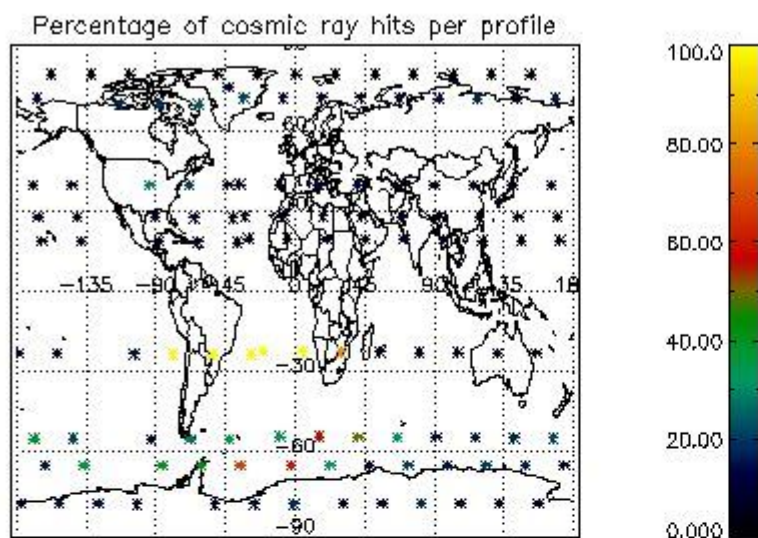


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

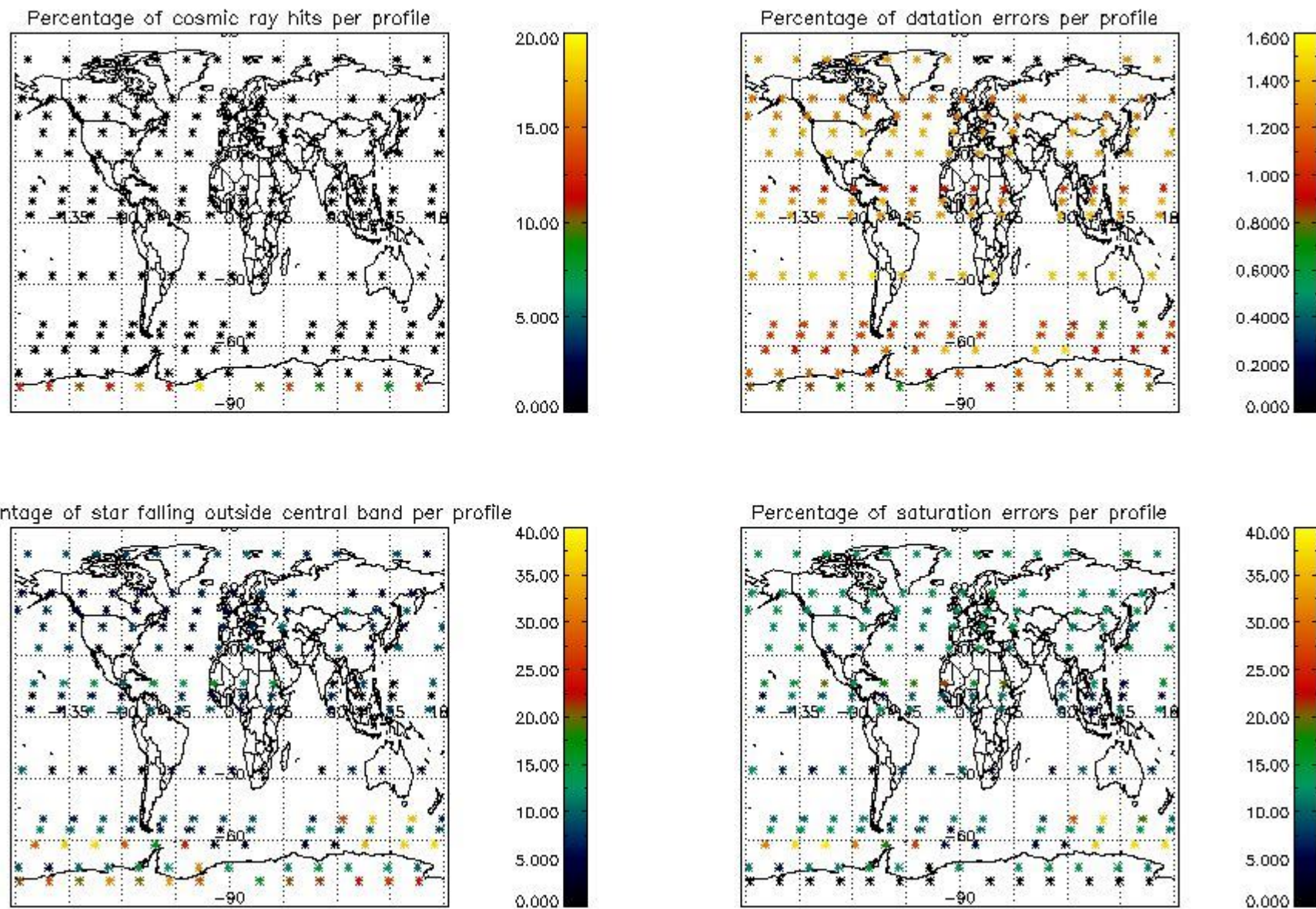


4.2 Plot quality information per product coming from level 1b processing (world map)

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

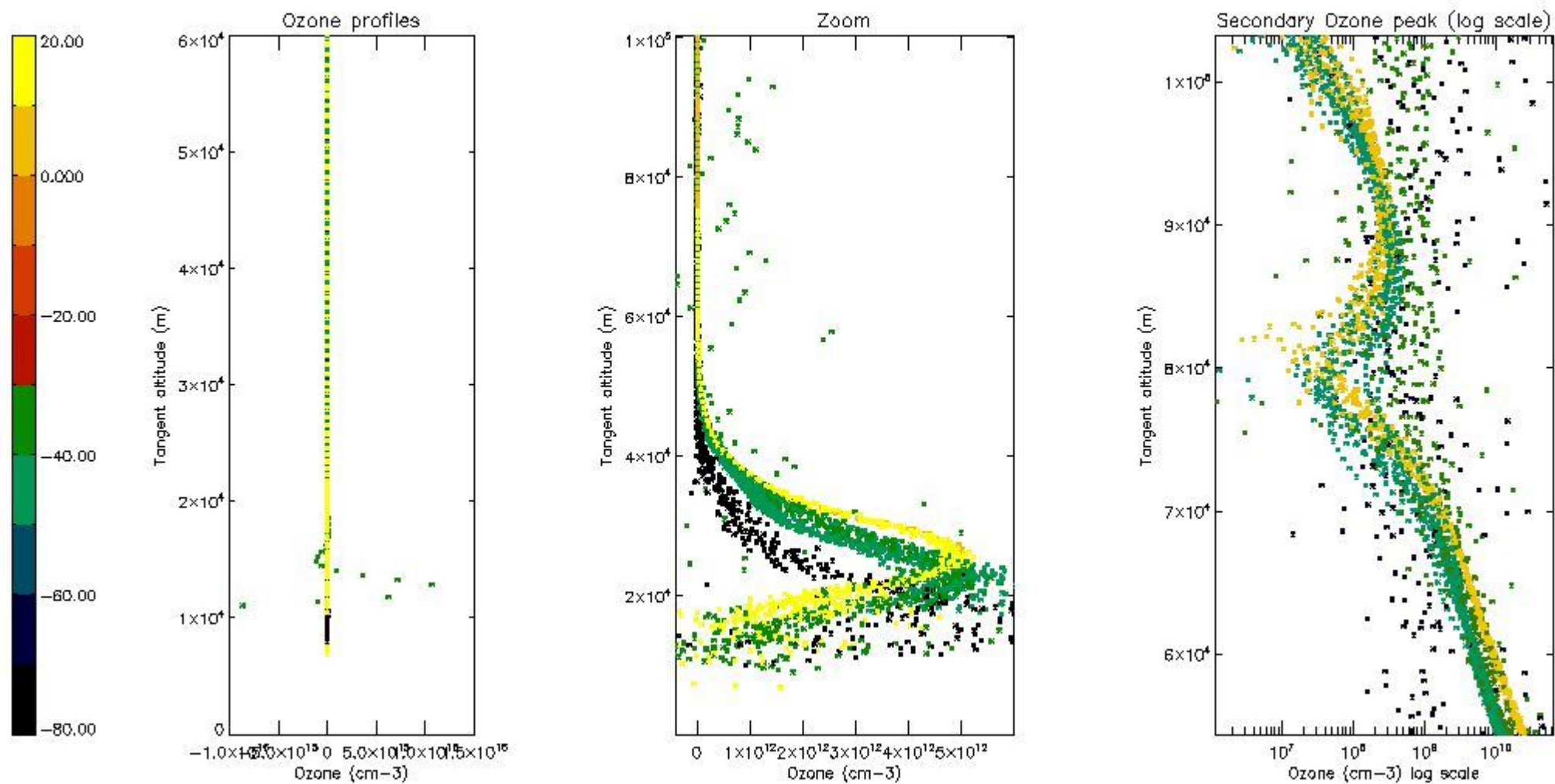
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	27
STD < 20	14

STD < 10	12
STD < 5	9

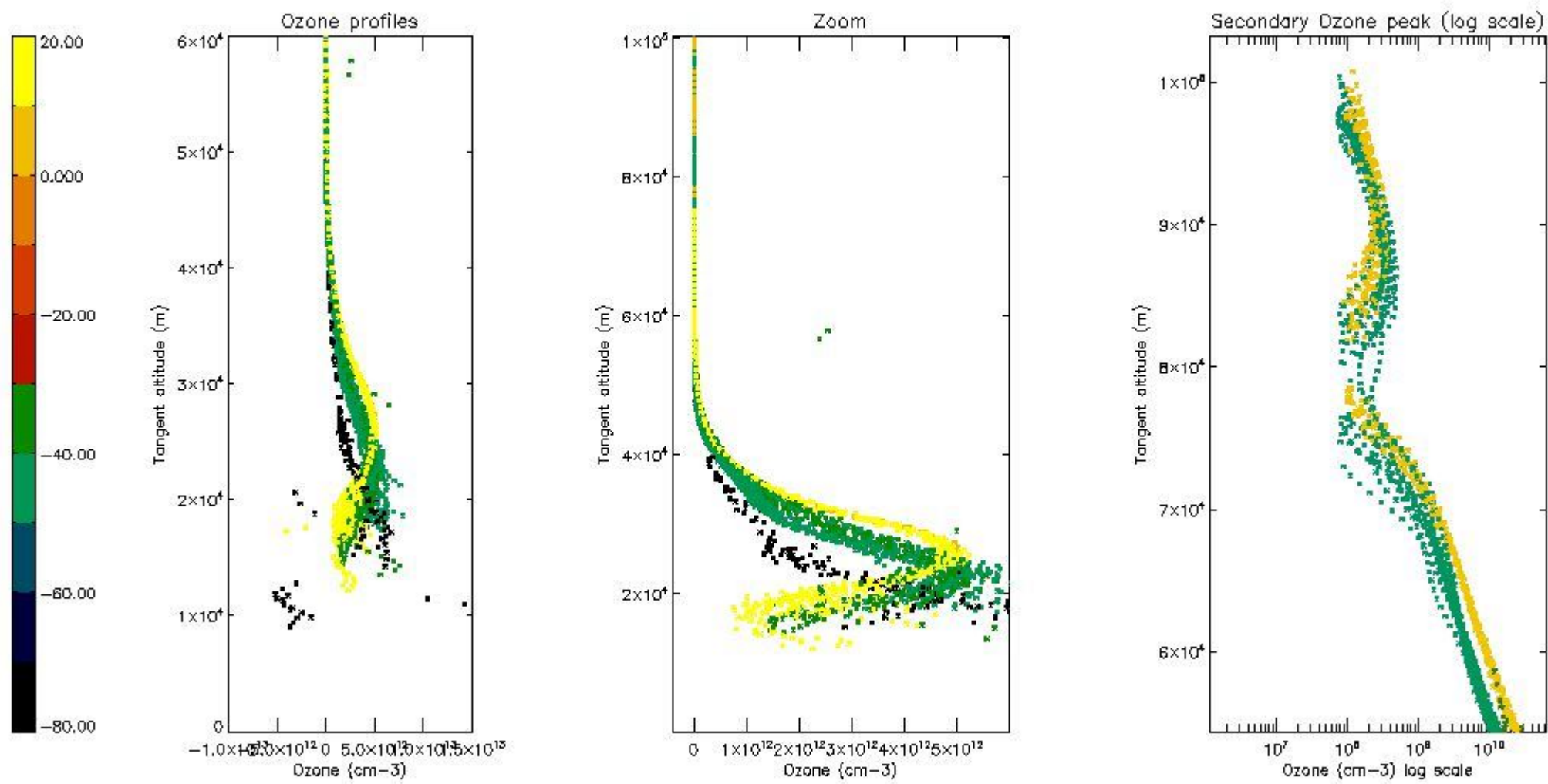
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



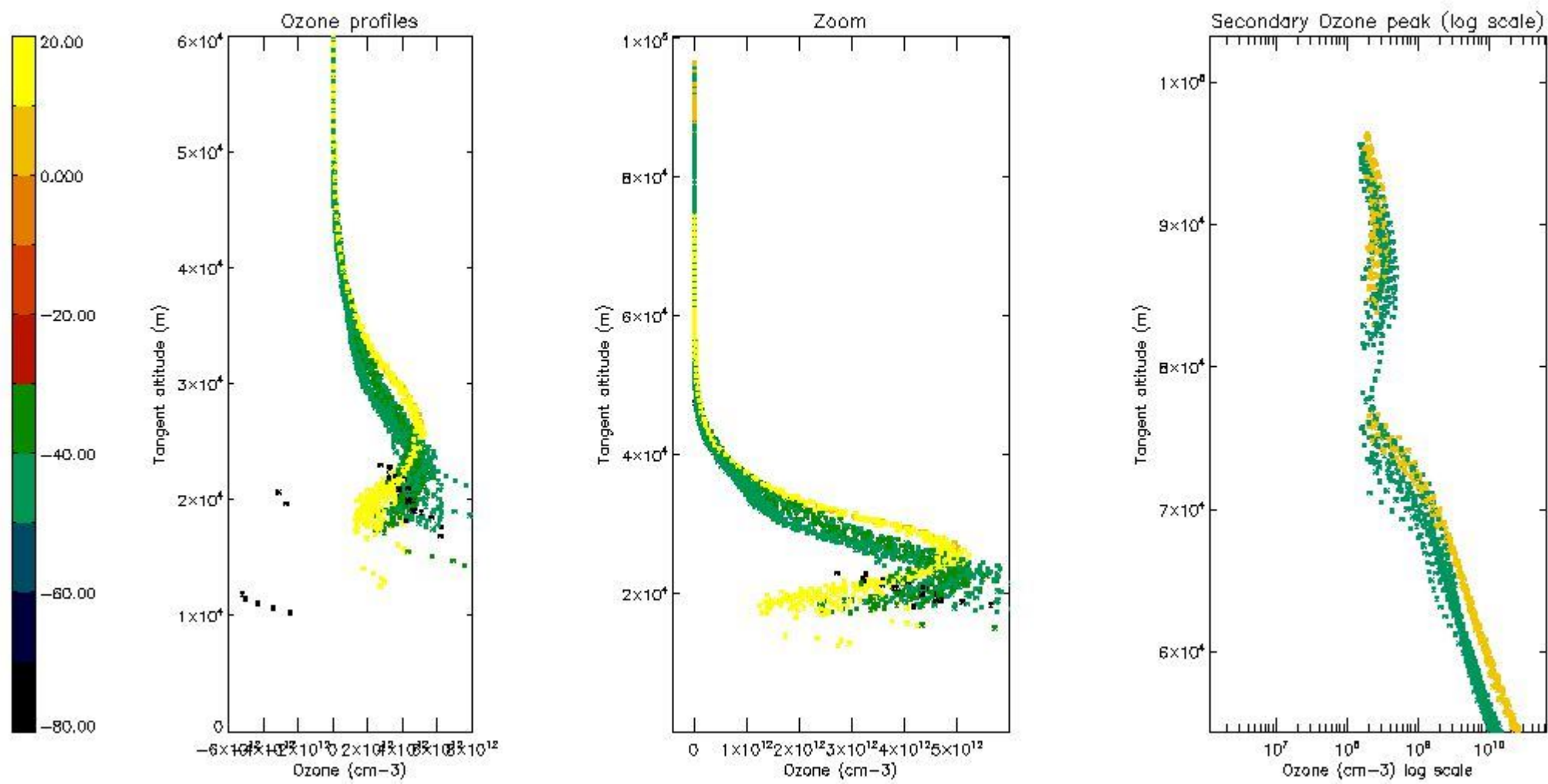
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



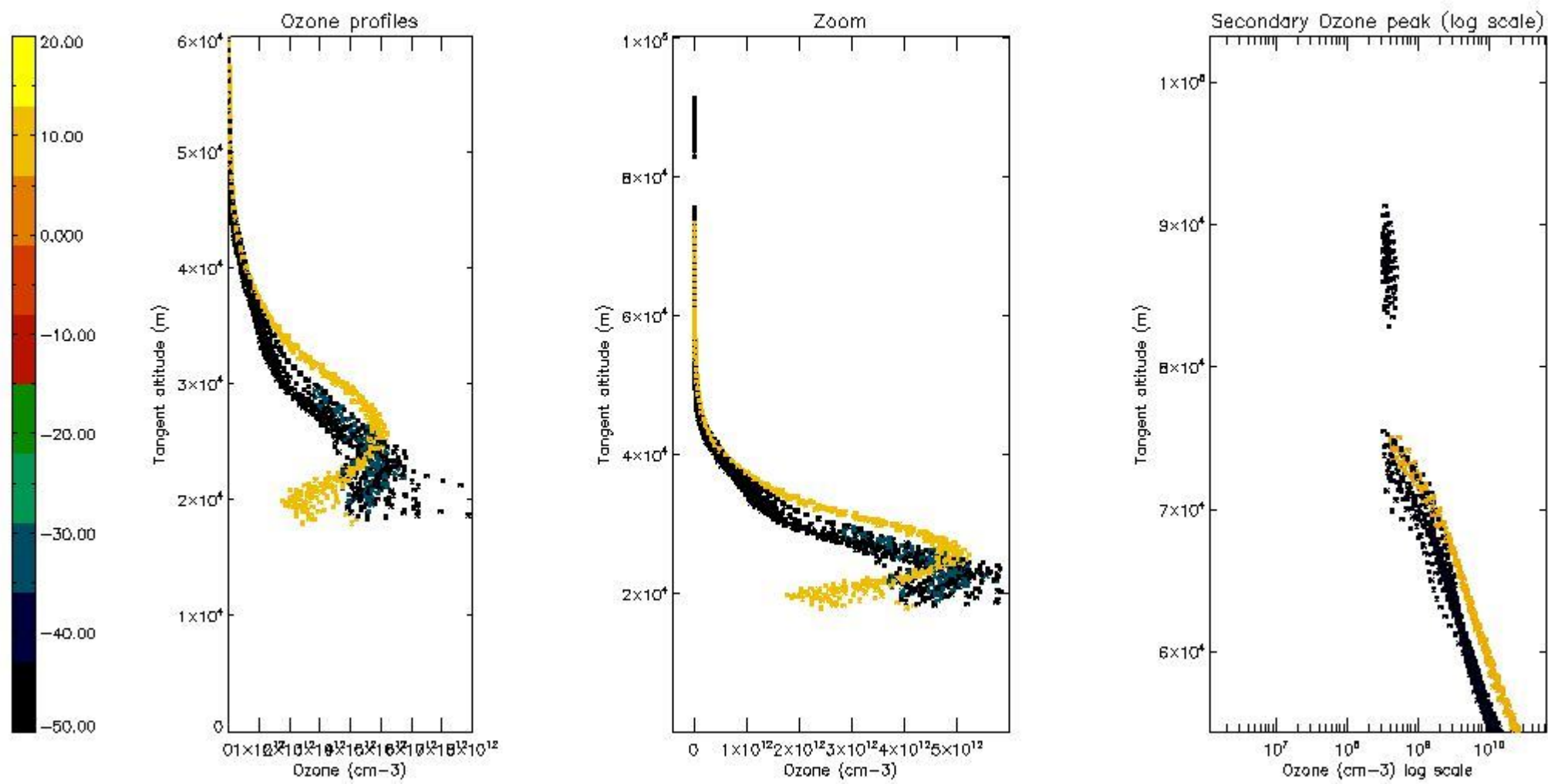
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



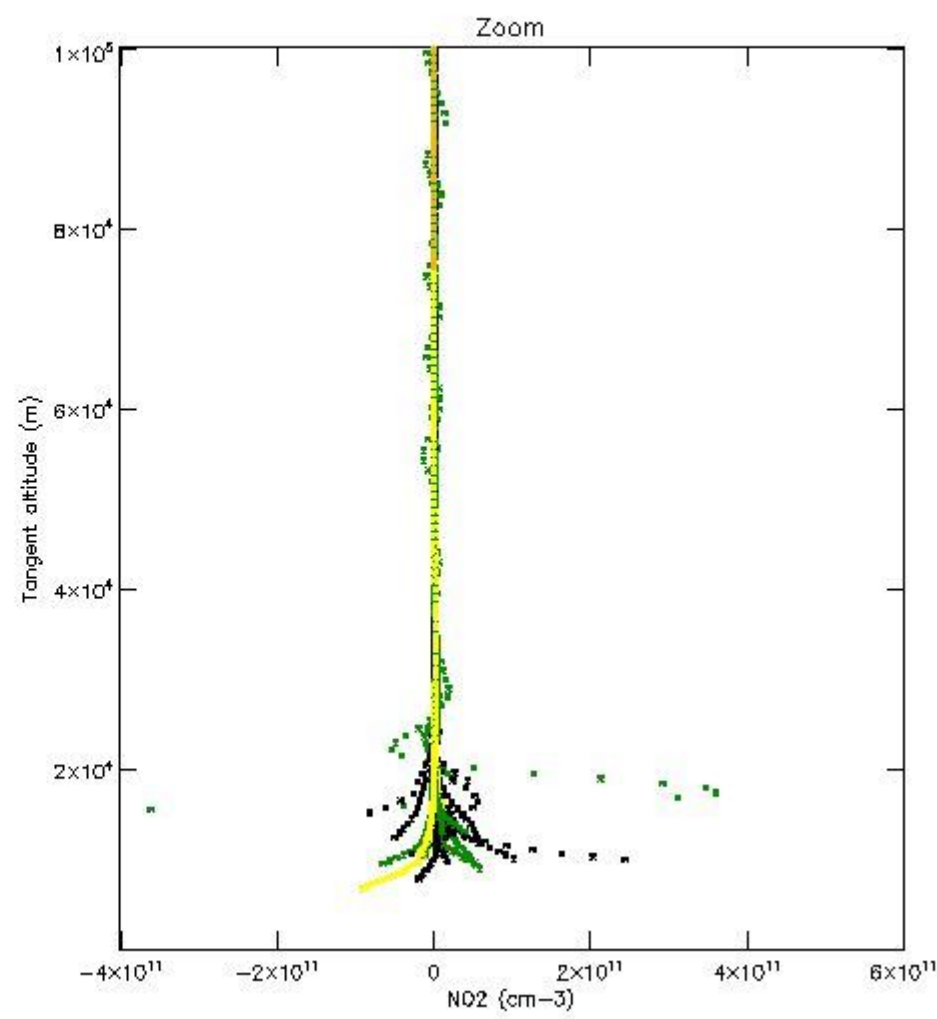
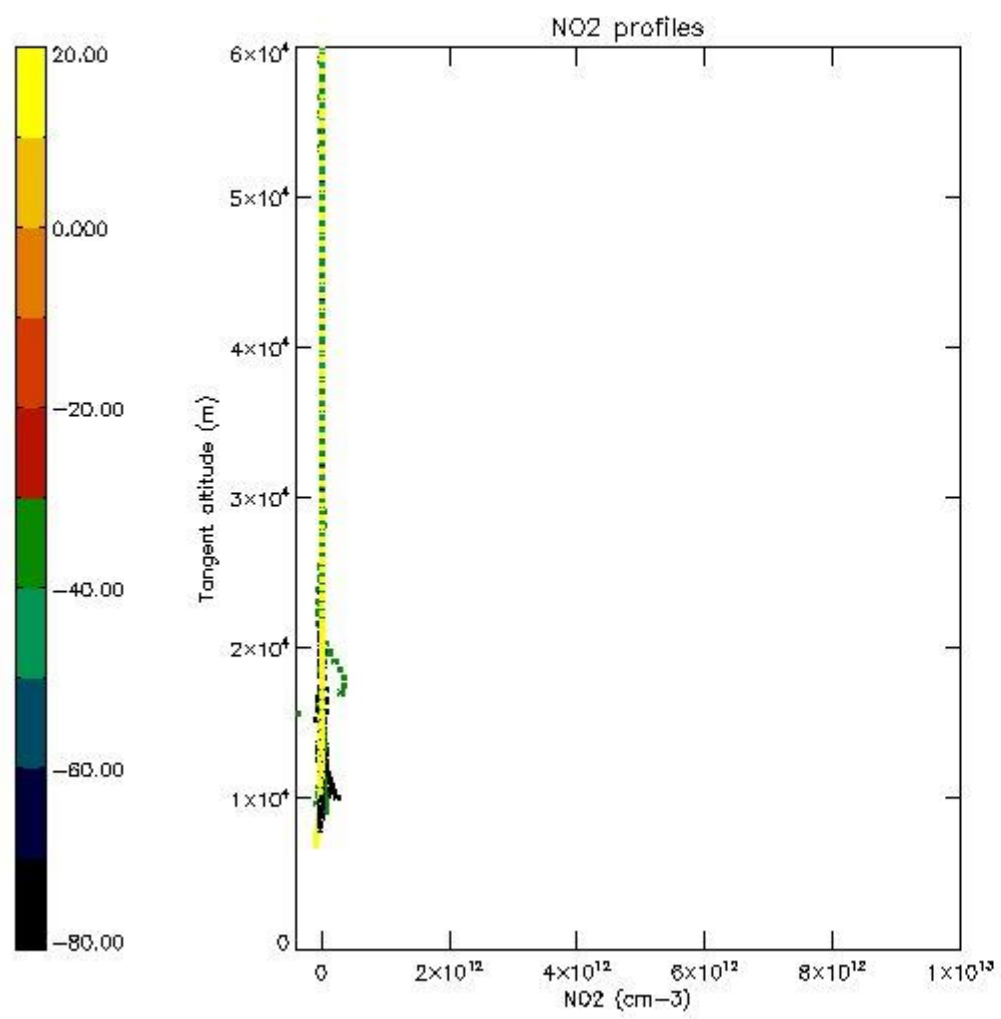
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



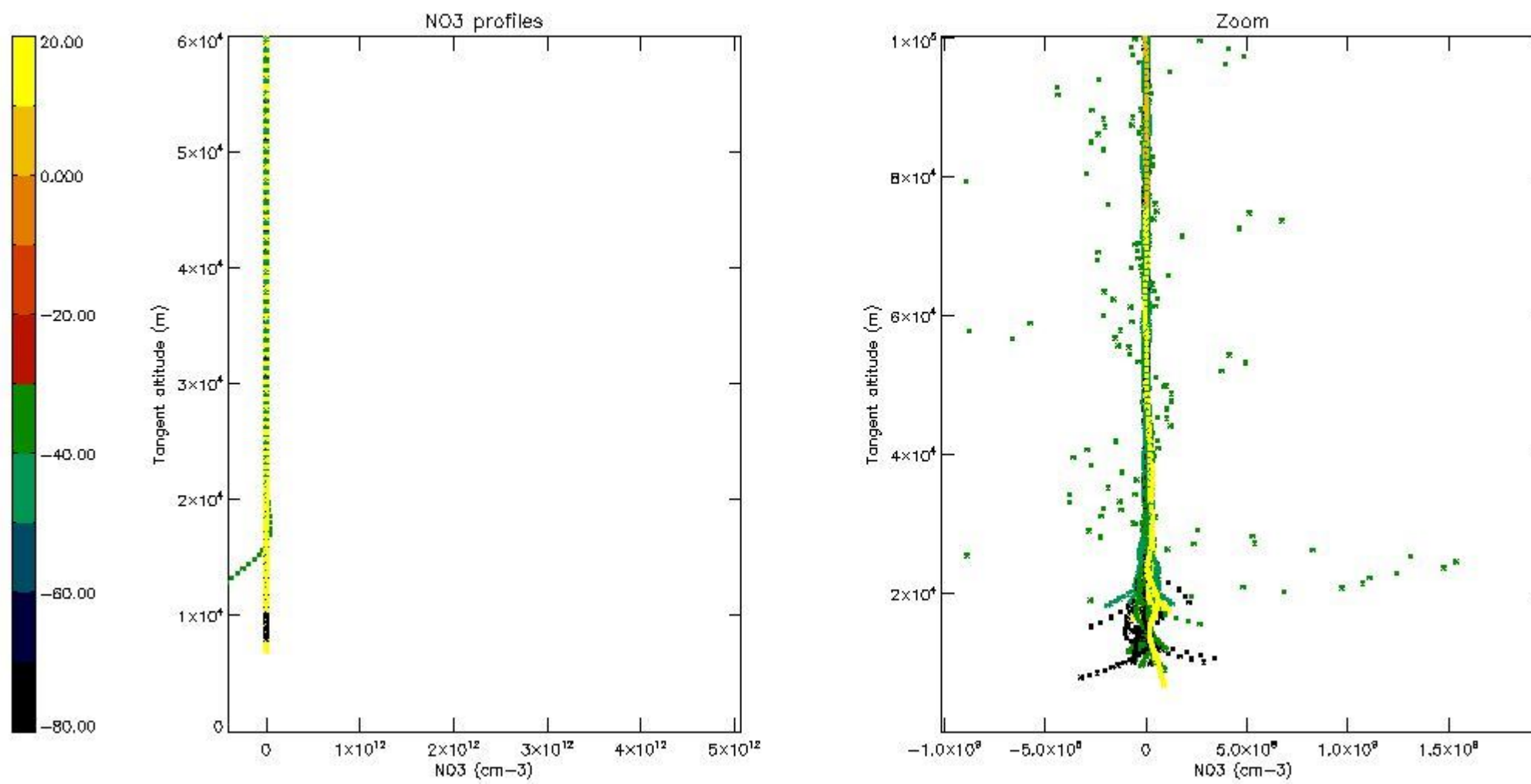
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	21-JUN-2003 00:08:03
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-JUN-2003 00:08:03
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-JUN-2003 00:08:03

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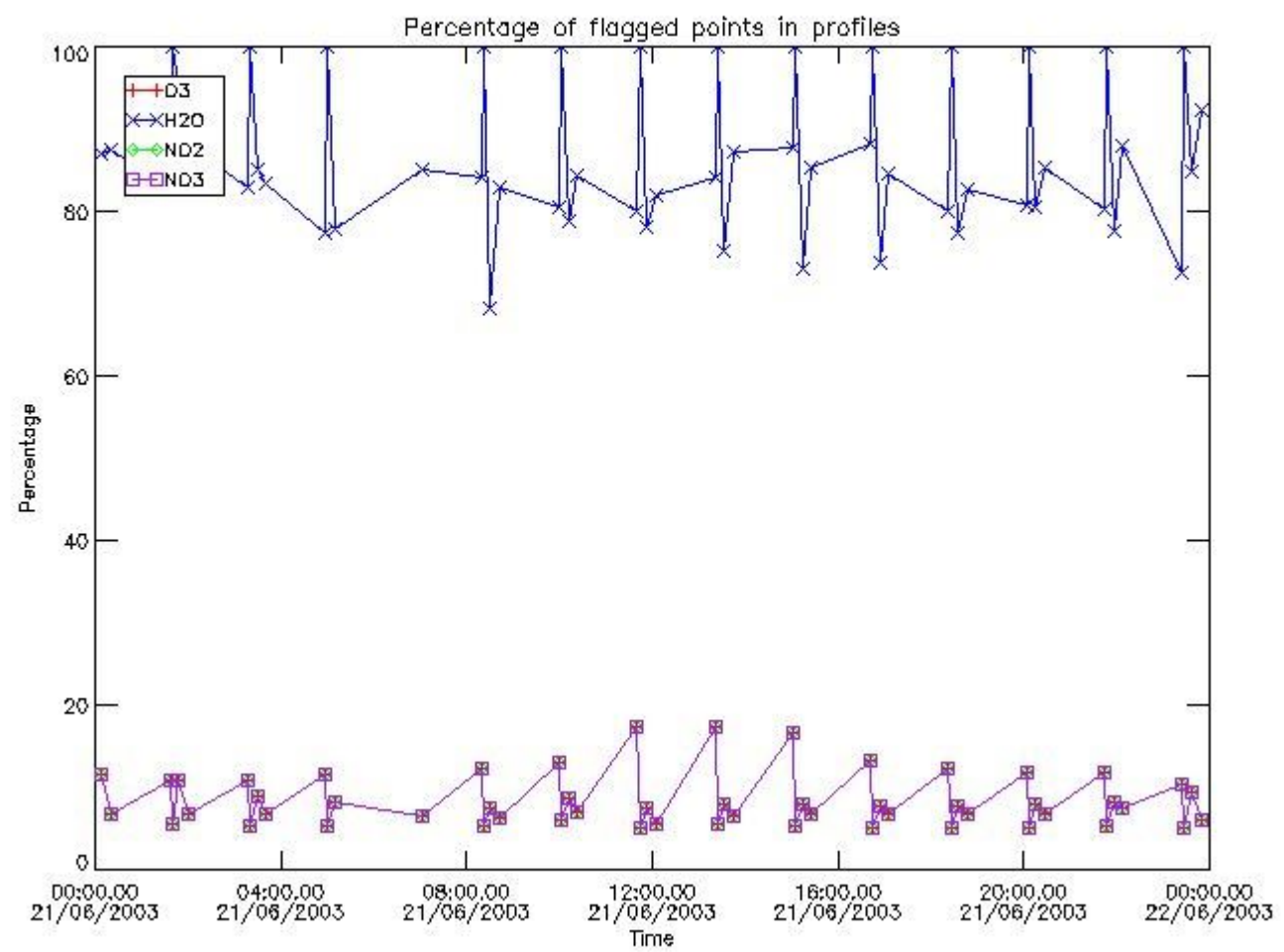
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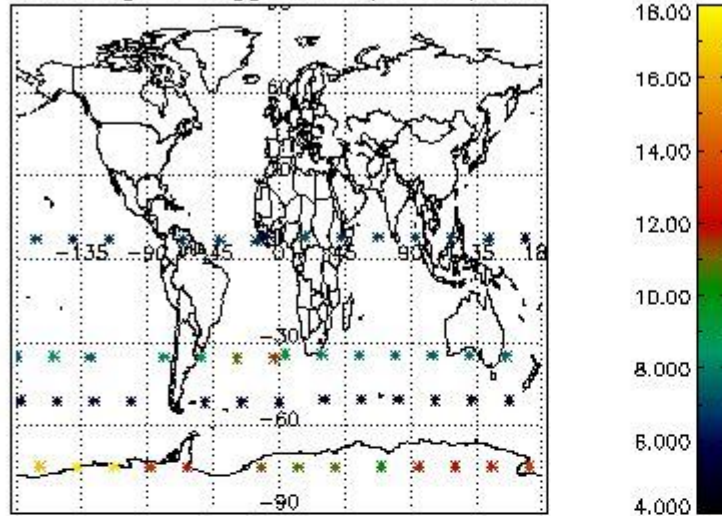
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3.1 Plot quality information per product (time dependant)

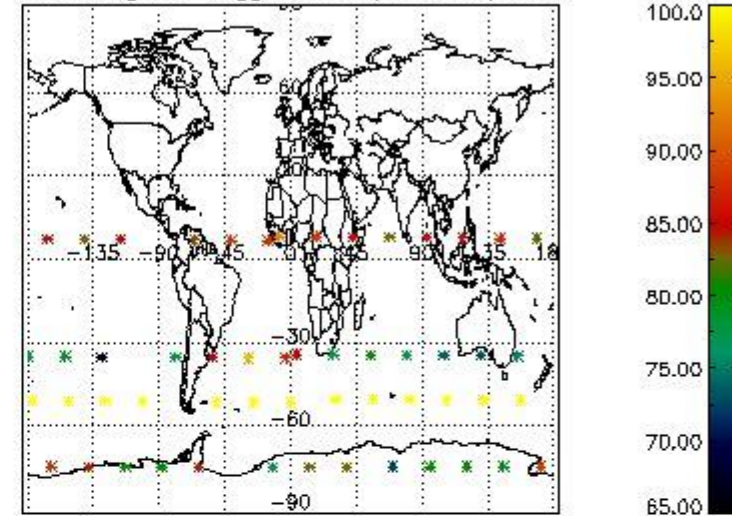


3.2 Plot quality information per product (world map)

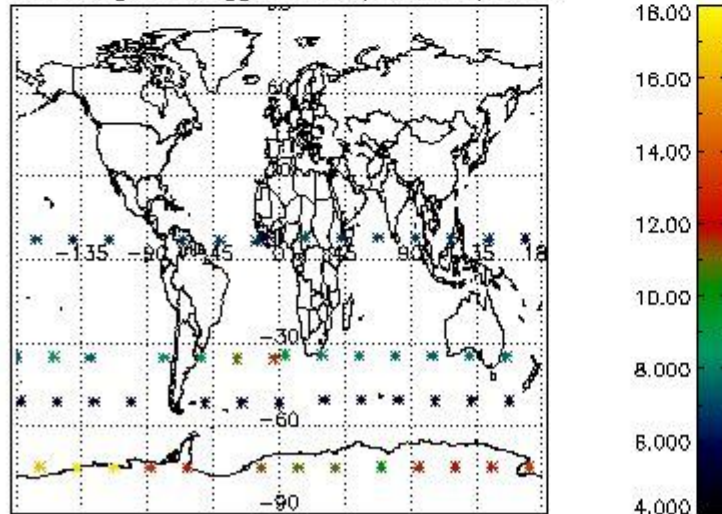
Percentage of flagged data per O3 profile



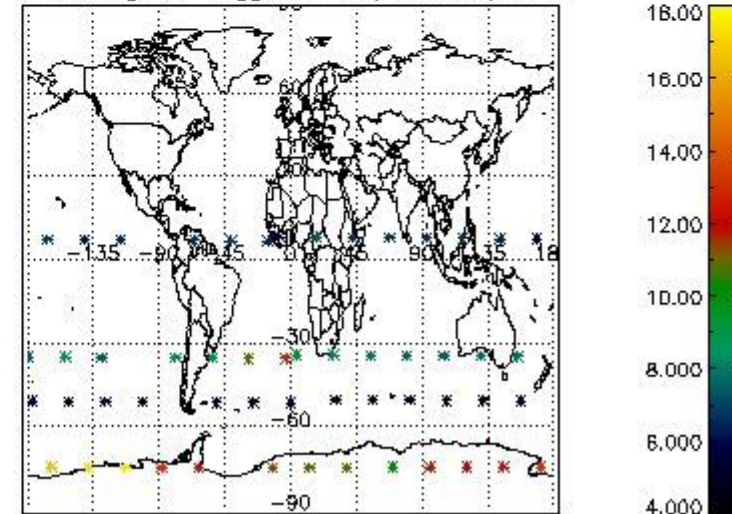
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

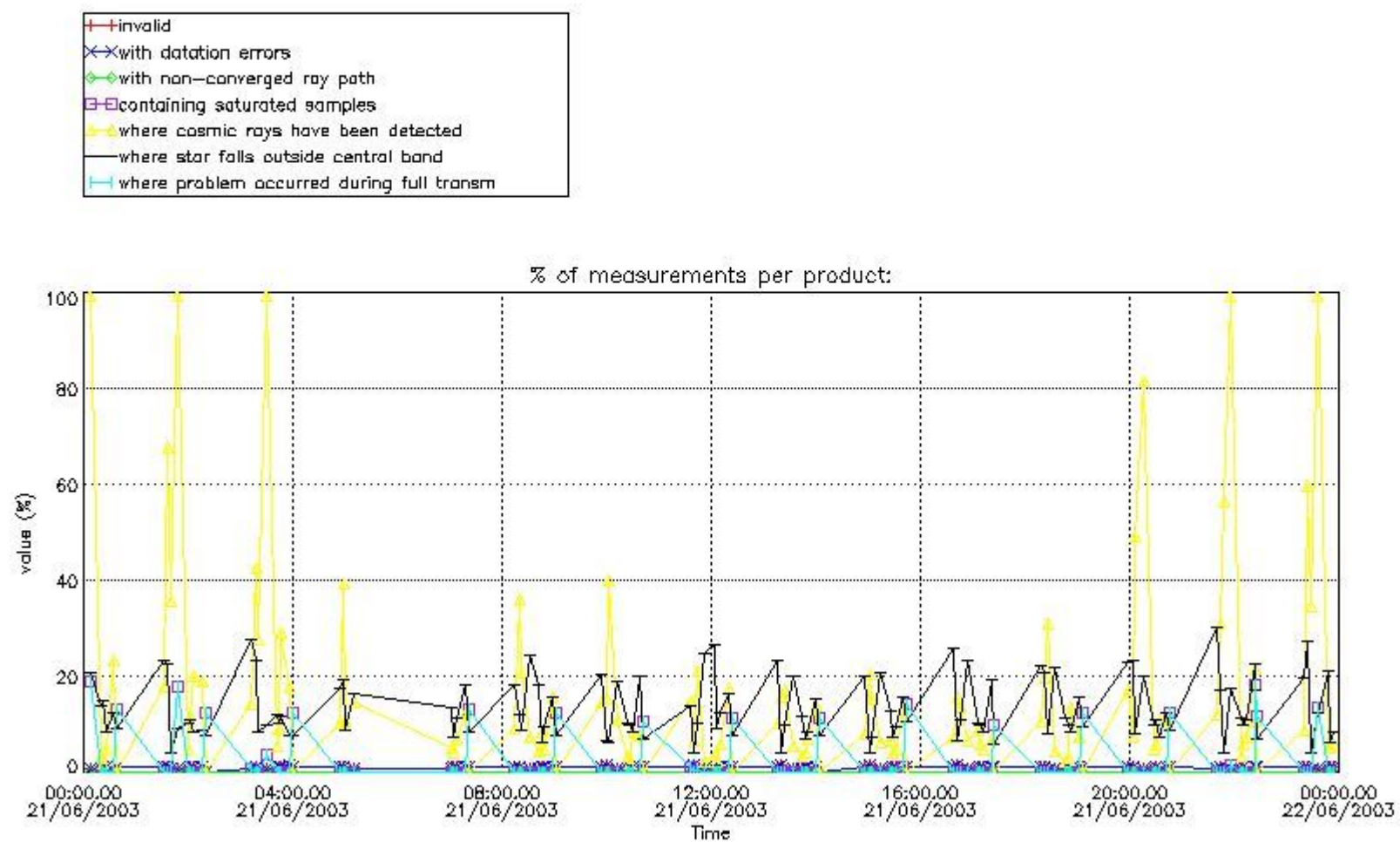


4. Level 1 quality information per product

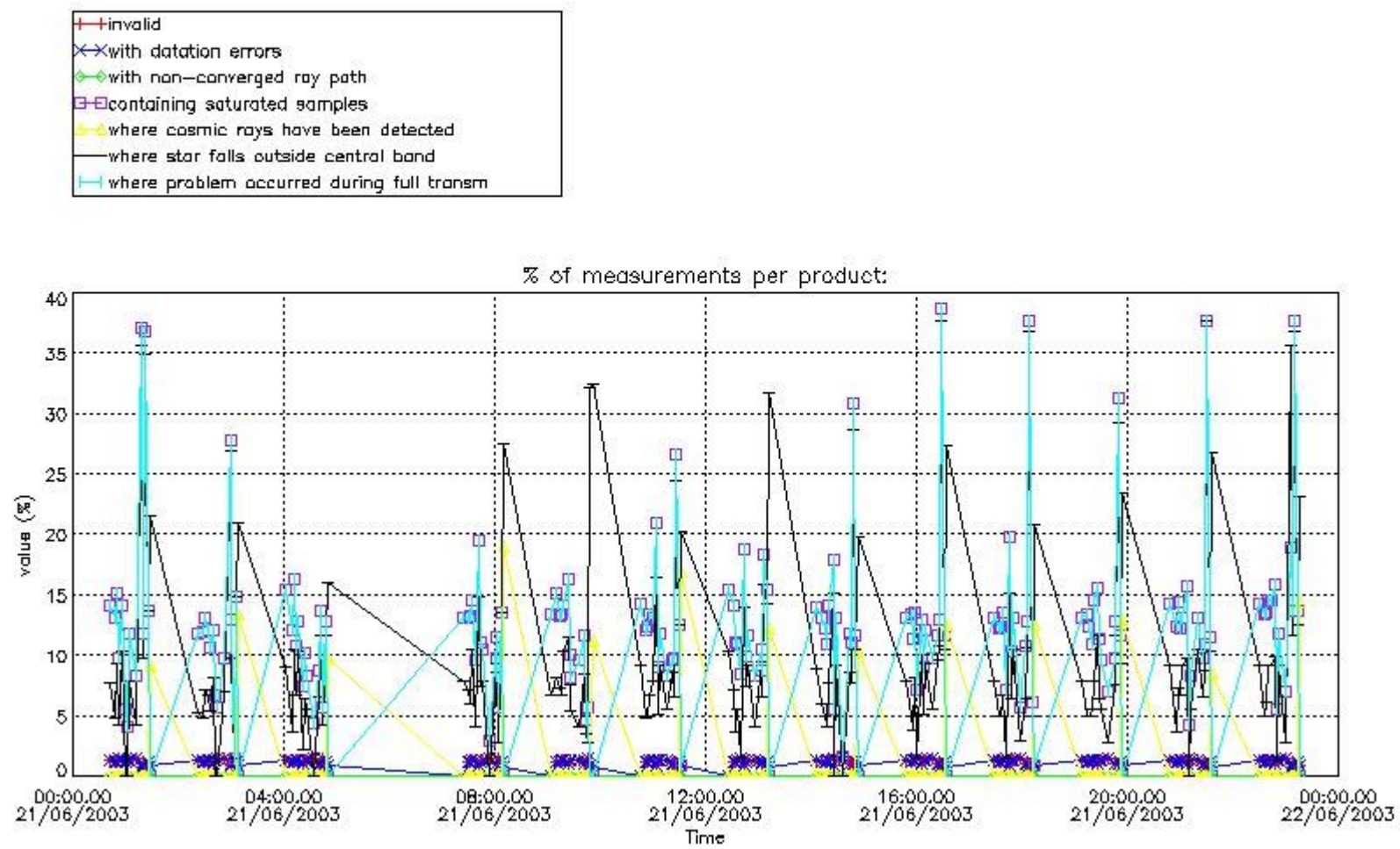
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

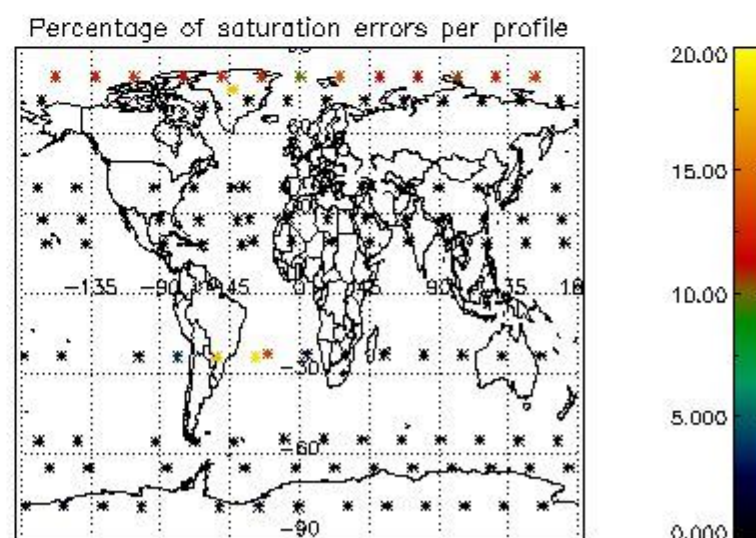
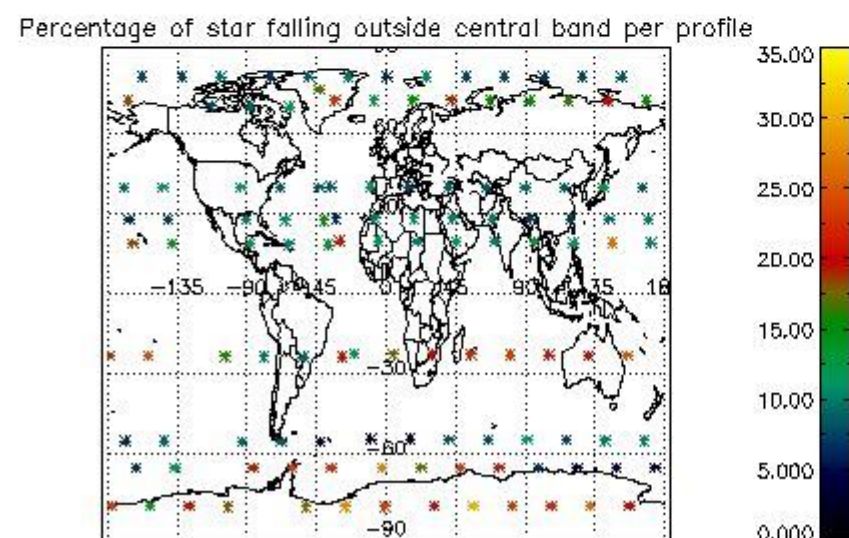
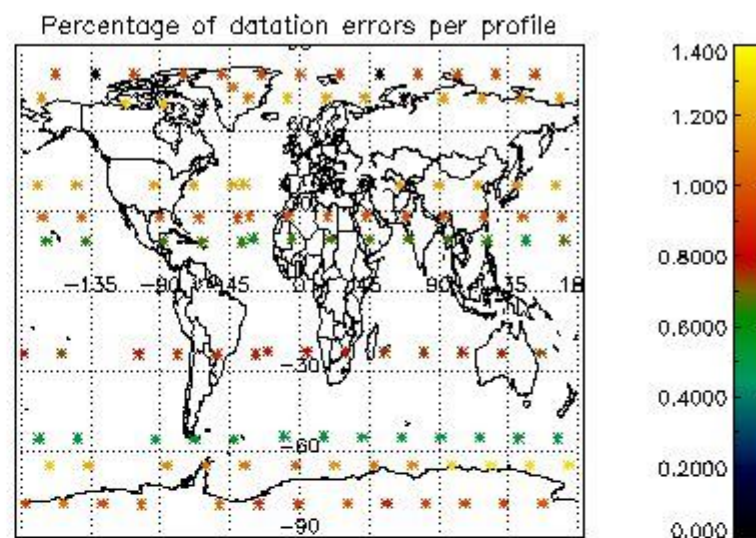
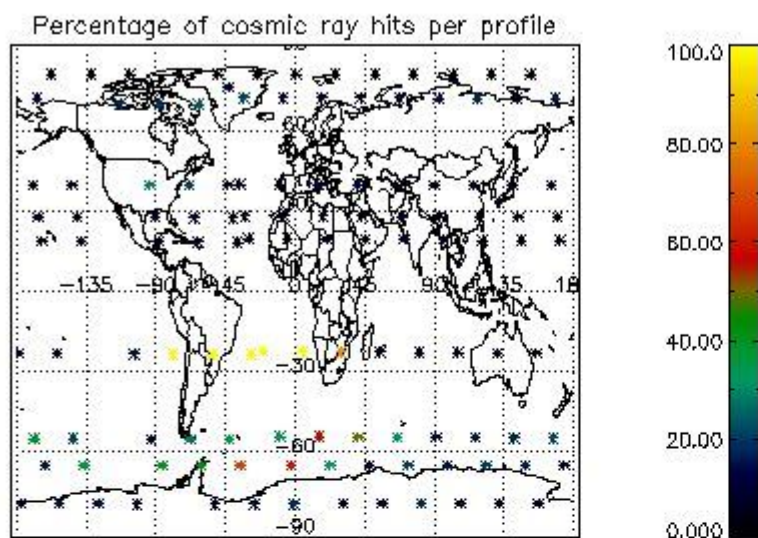


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

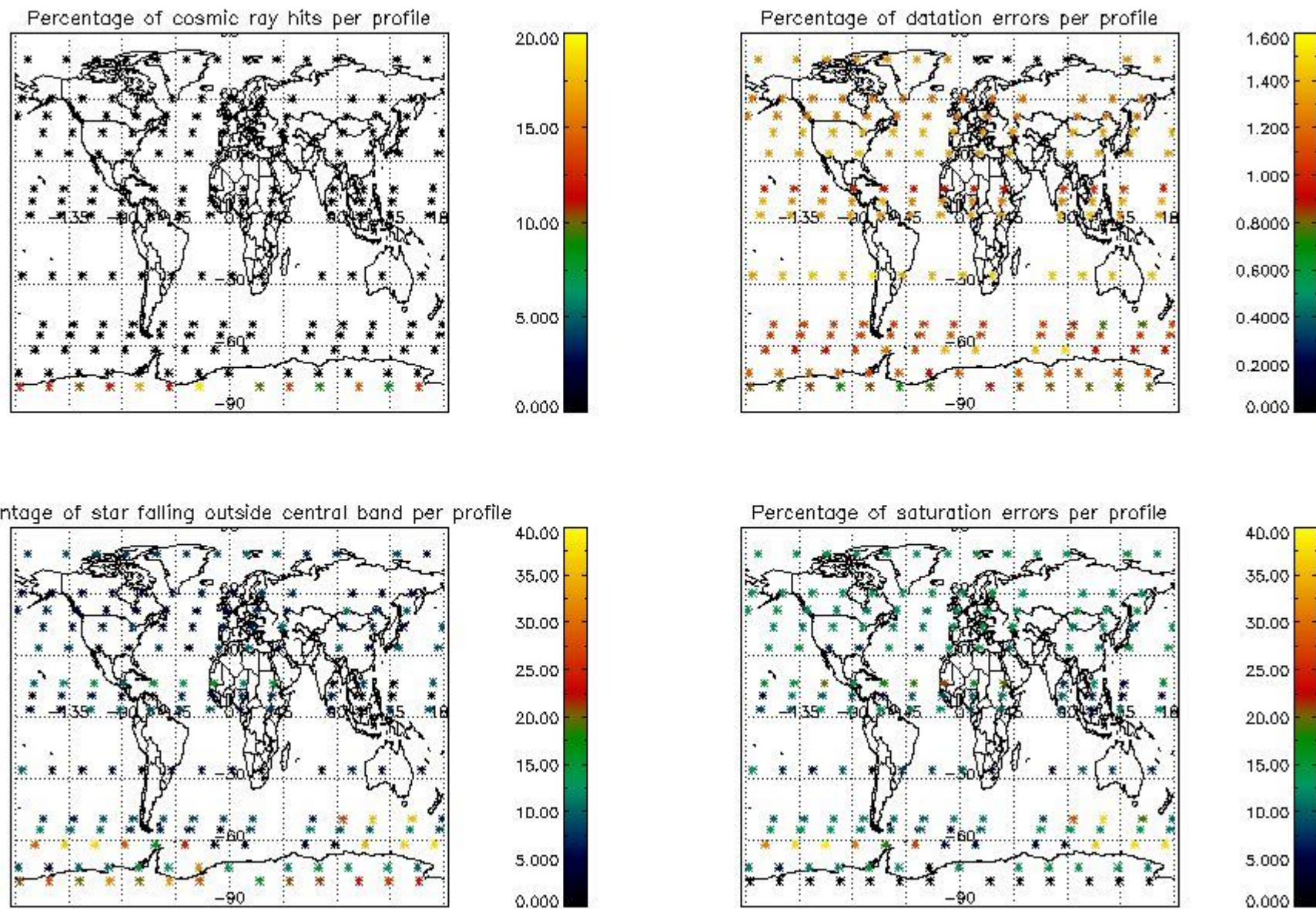


4.2 Plot quality information per product coming from level 1b processing (world map)

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

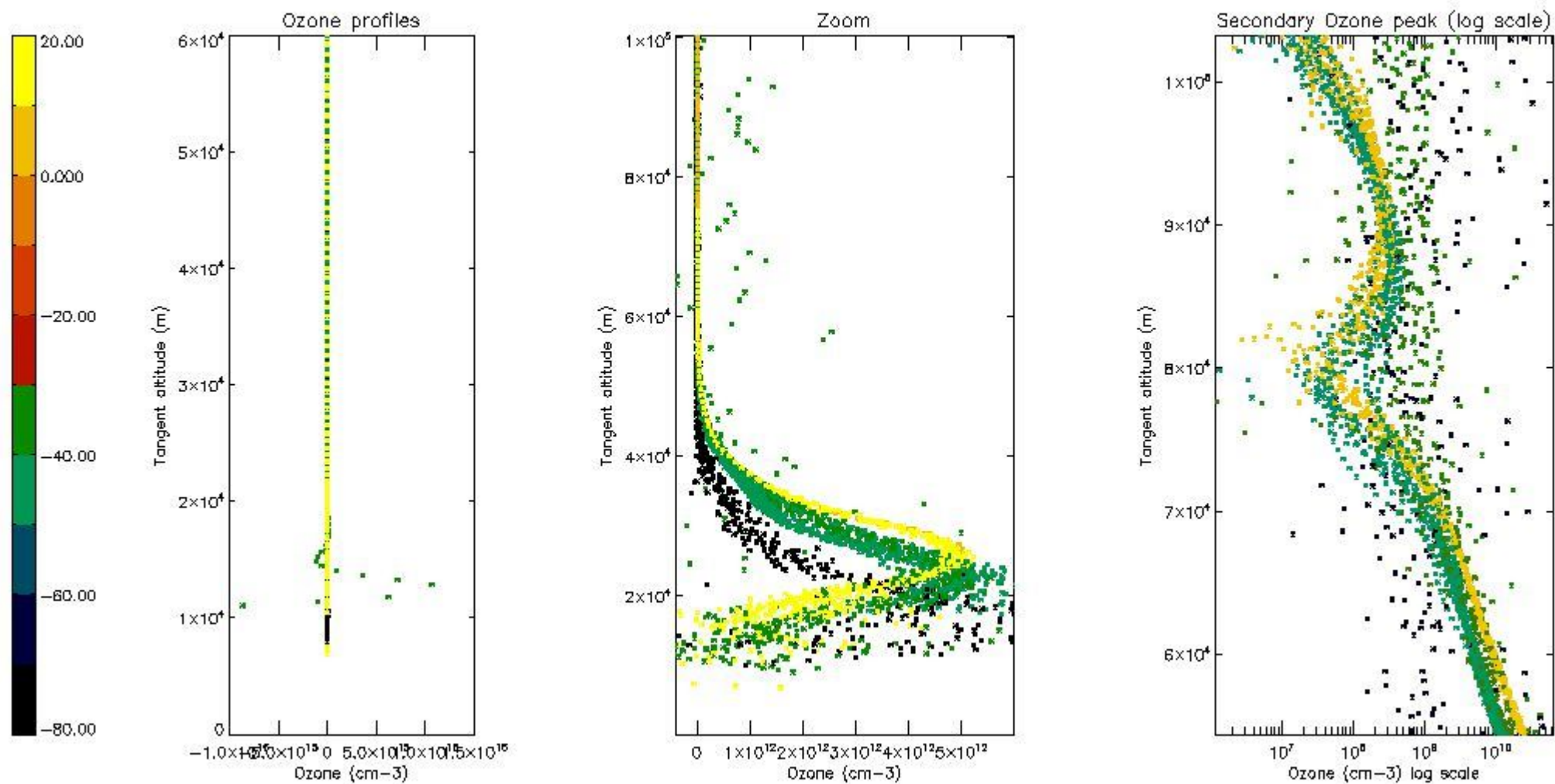
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	27
STD < 20	14

STD < 10	12
STD < 5	9

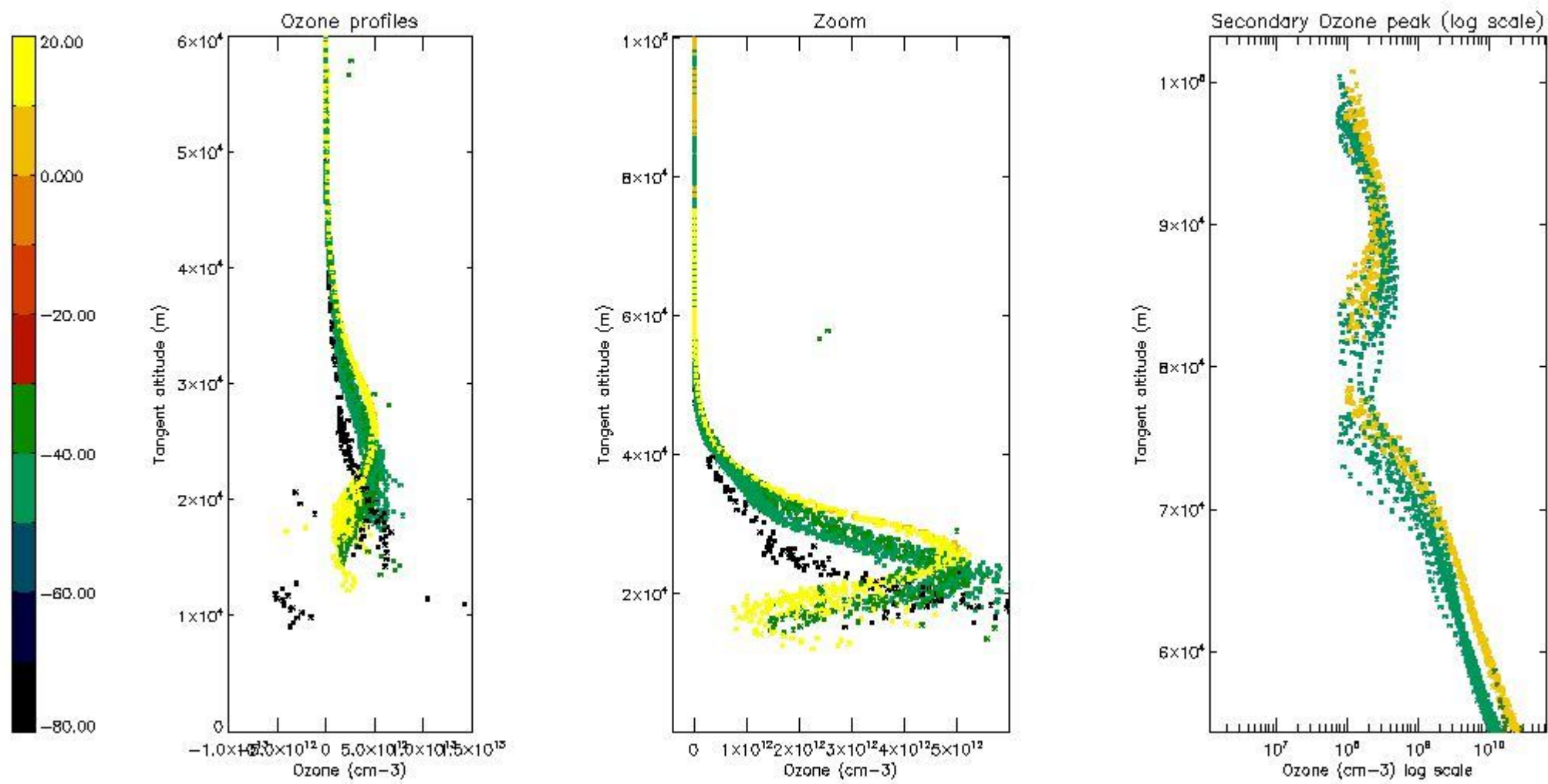
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



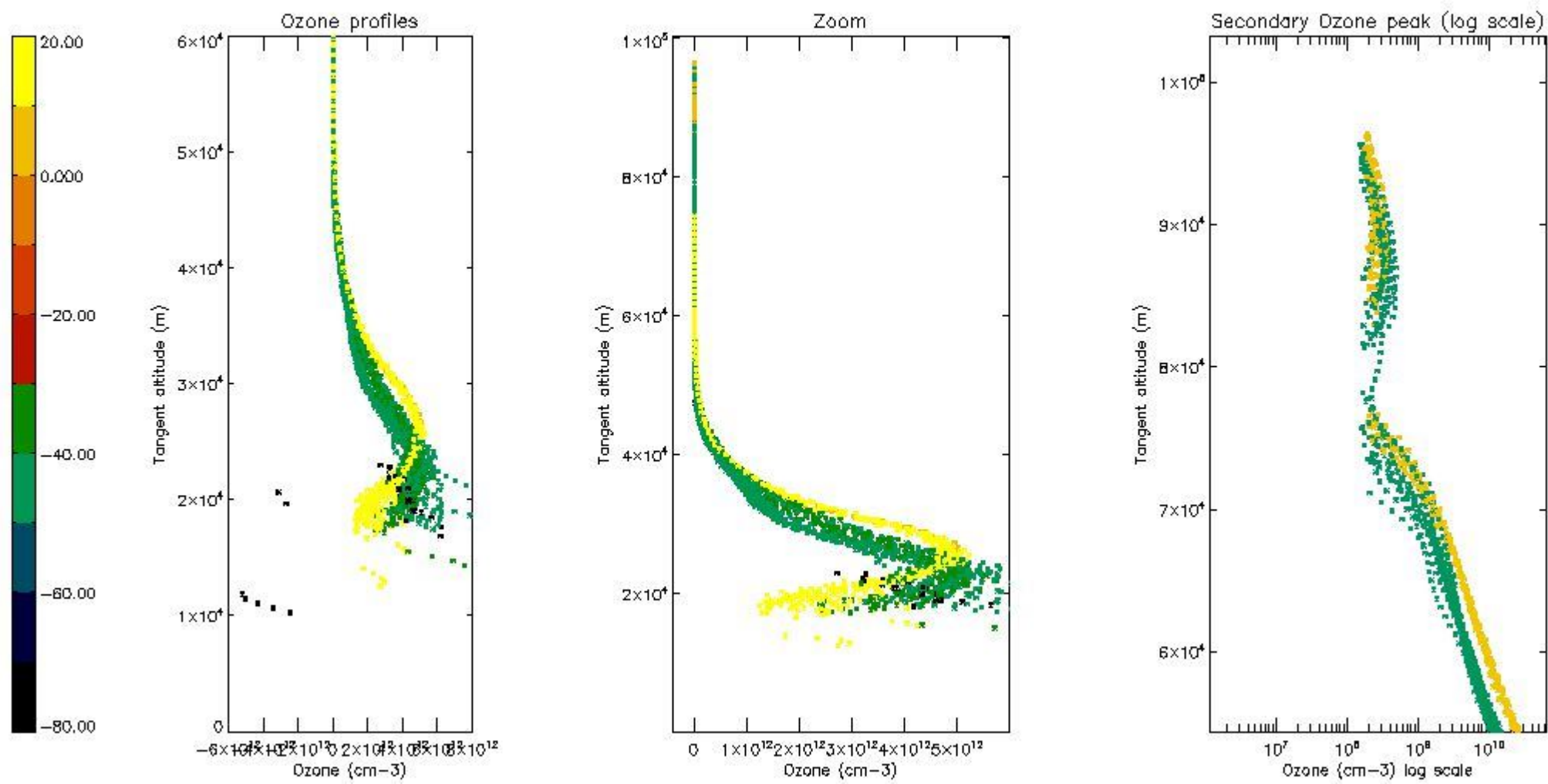
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



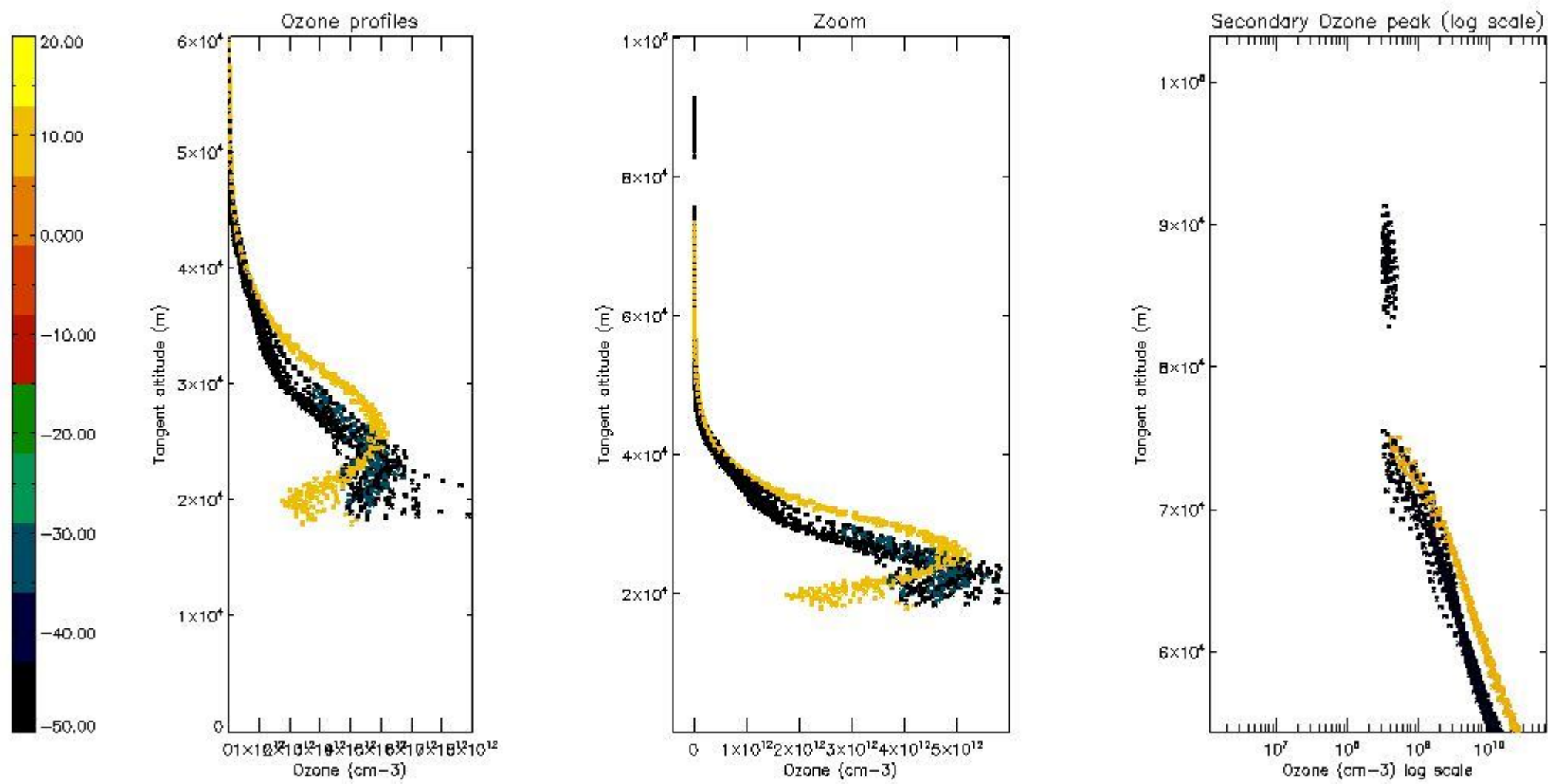
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



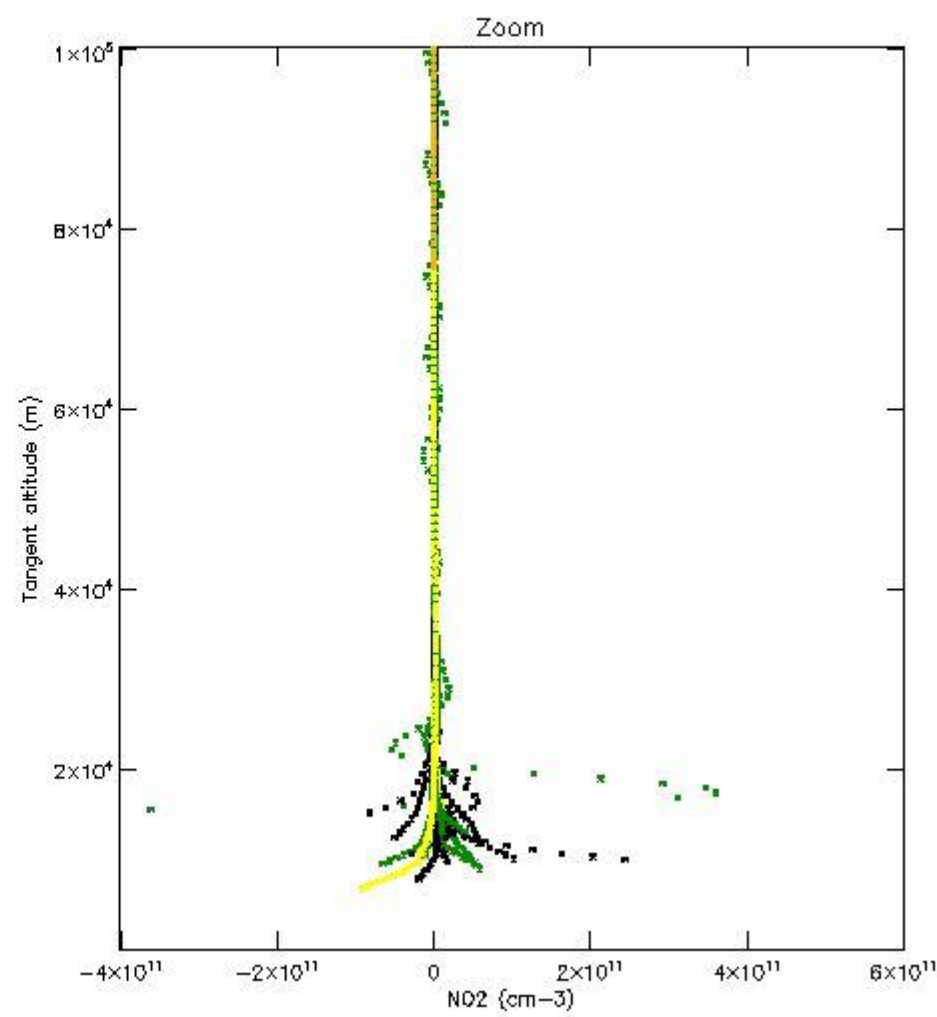
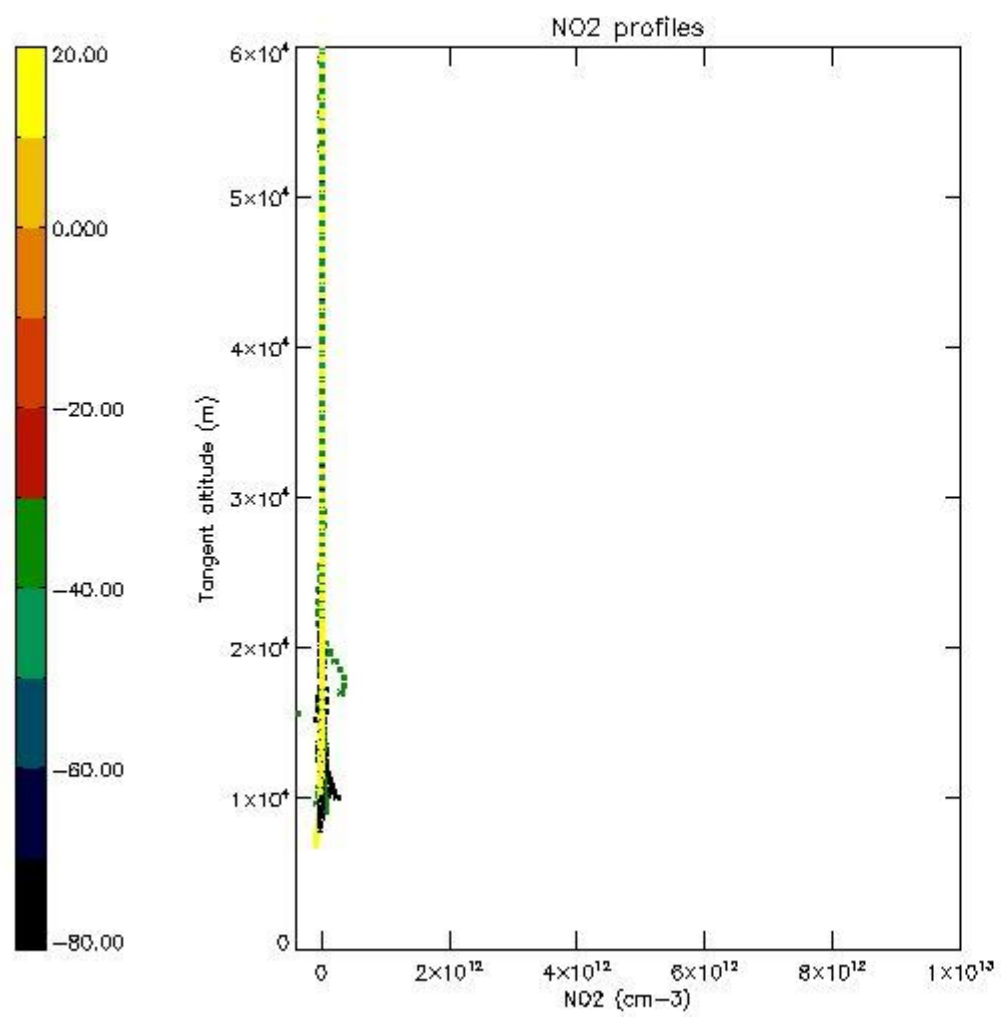
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



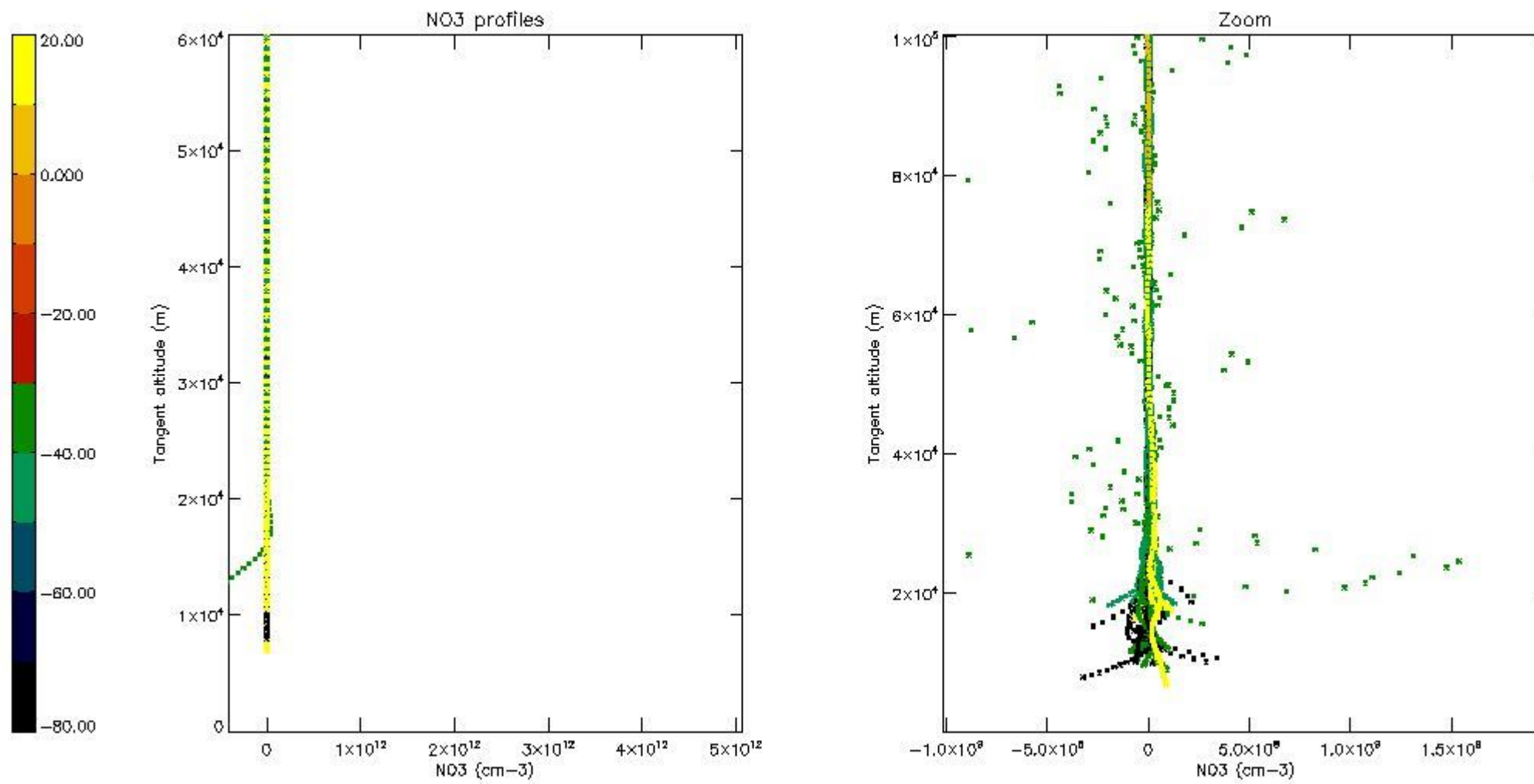
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

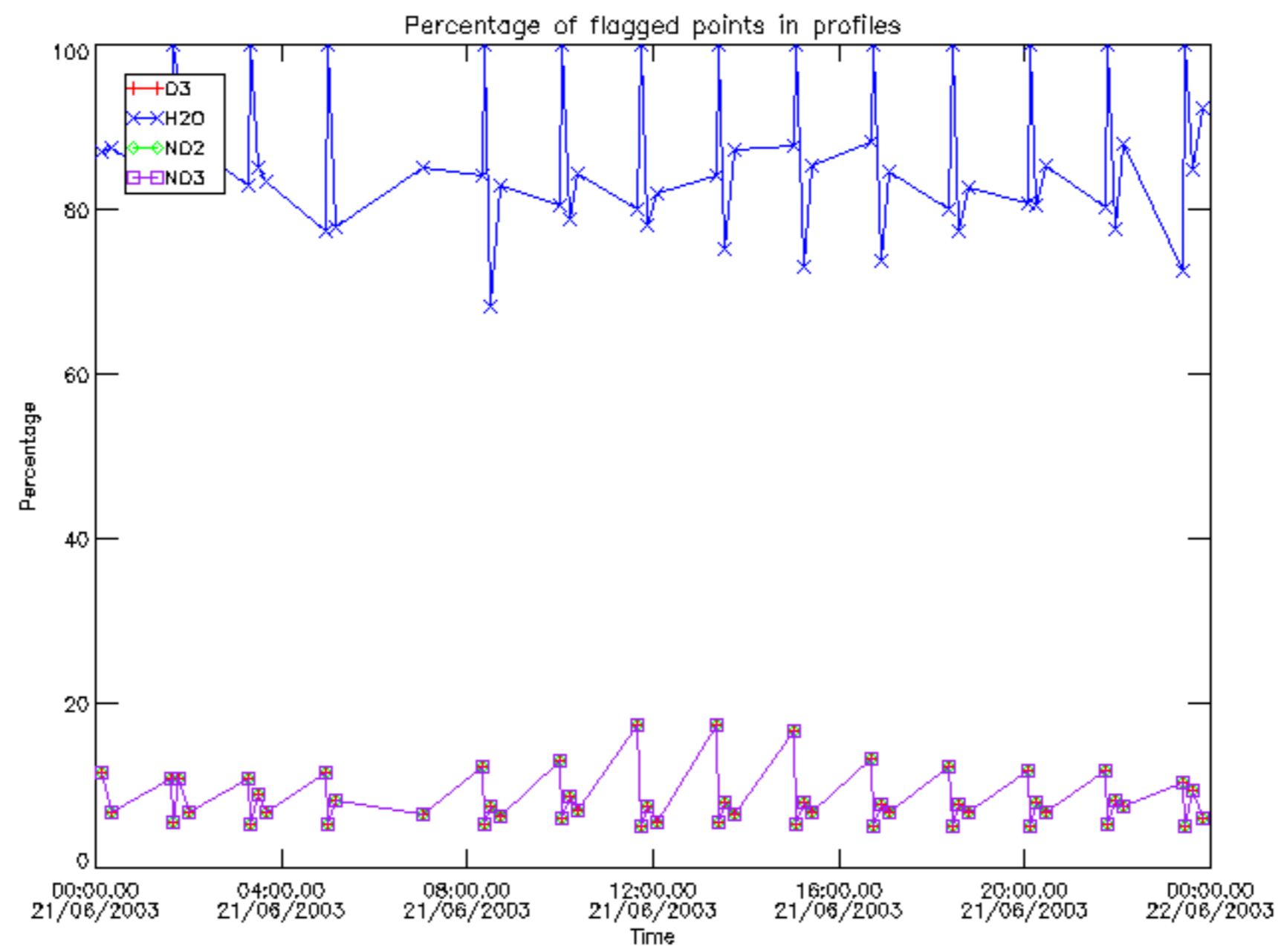
The colorbar represents the latitude.



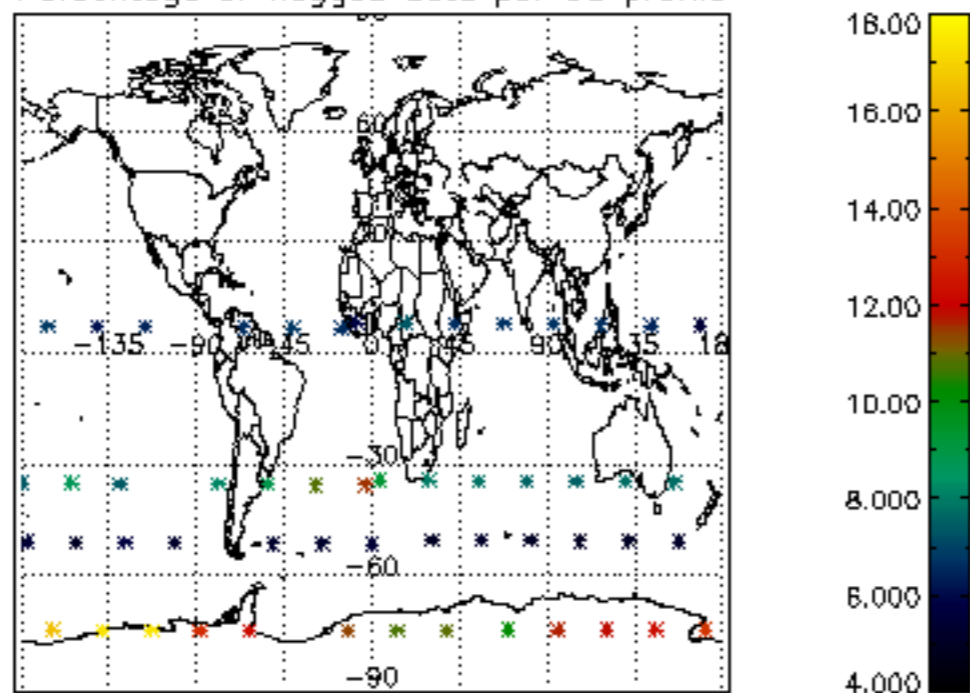
6. Auxiliary Data Files used for the production reported in section 2

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

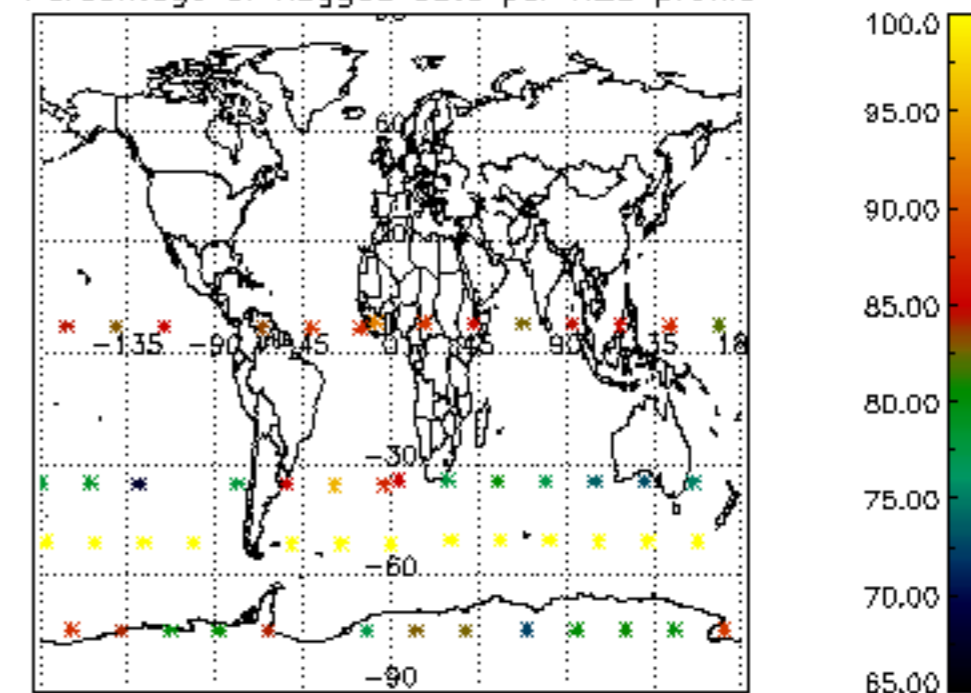
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	21-JUN-2003 00:08:03
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-JUN-2003 00:08:03
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-JUN-2003 00:08:03



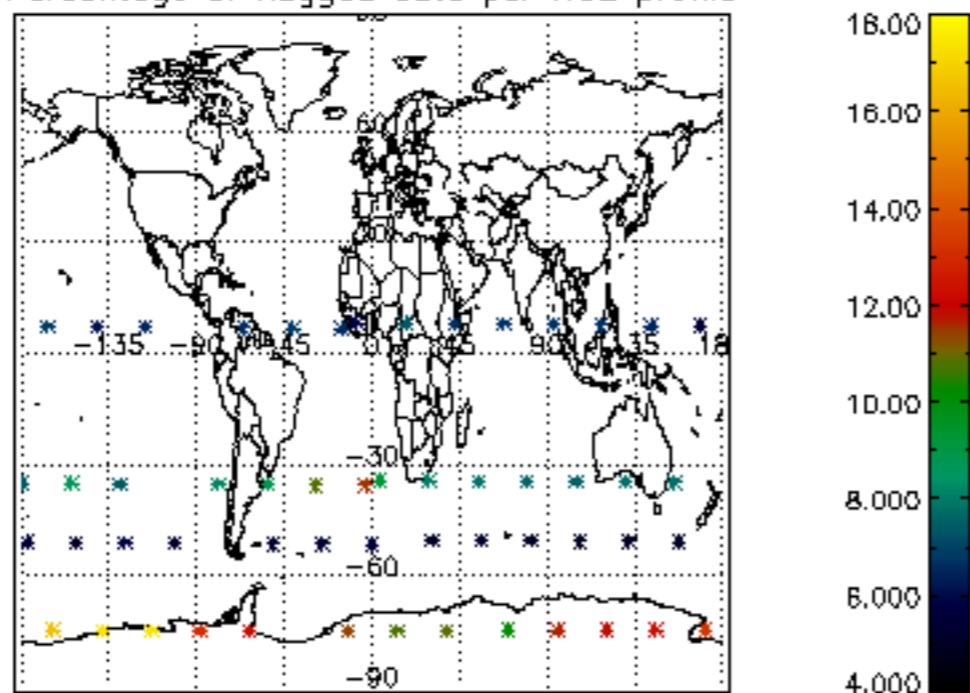
Percentage of flagged data per D3 profile



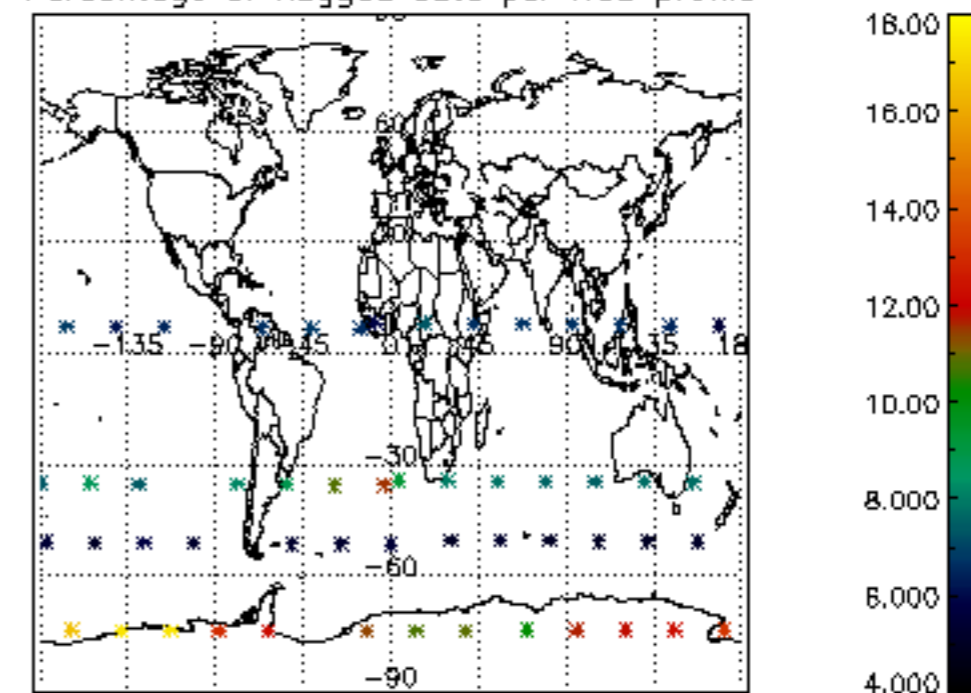
Percentage of flagged data per H2O profile

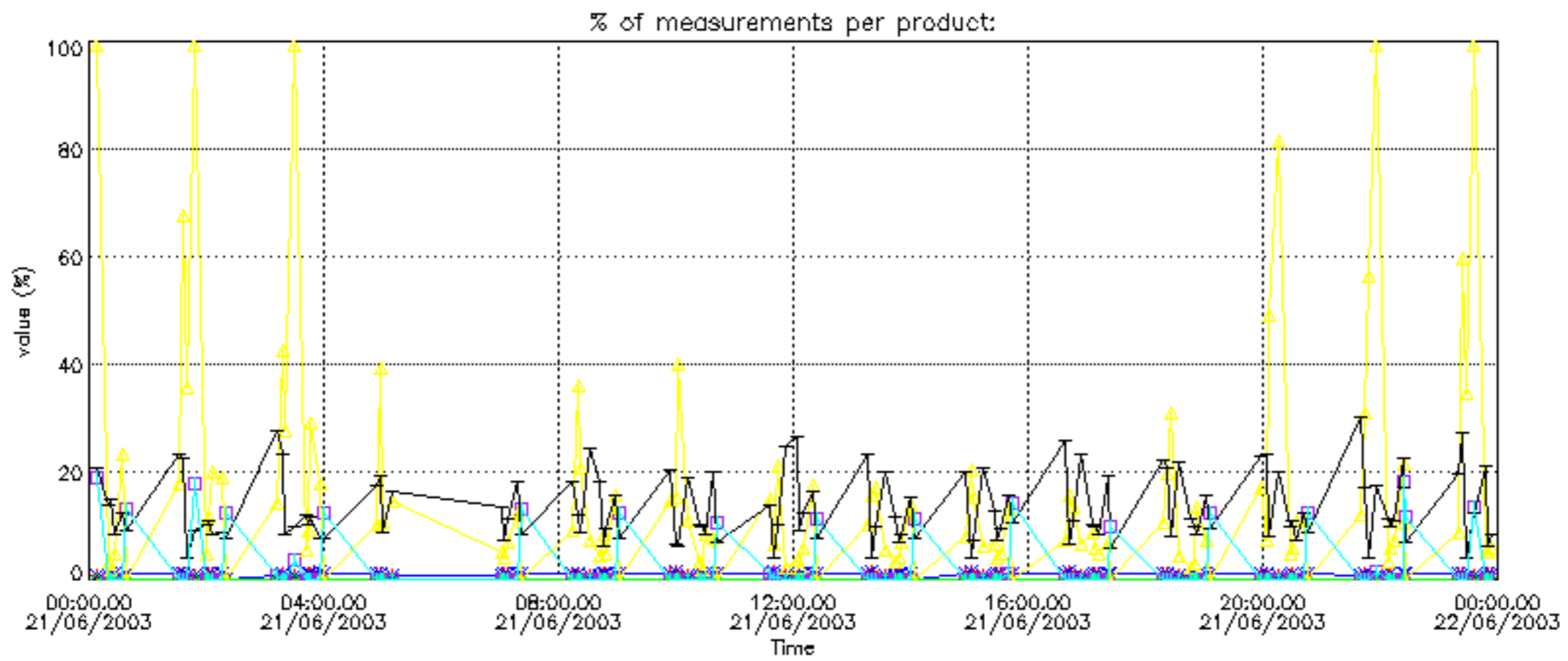
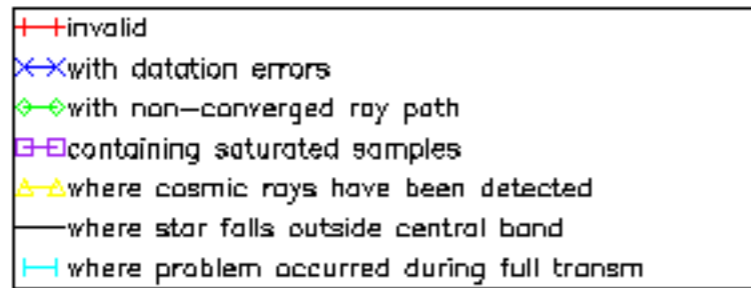


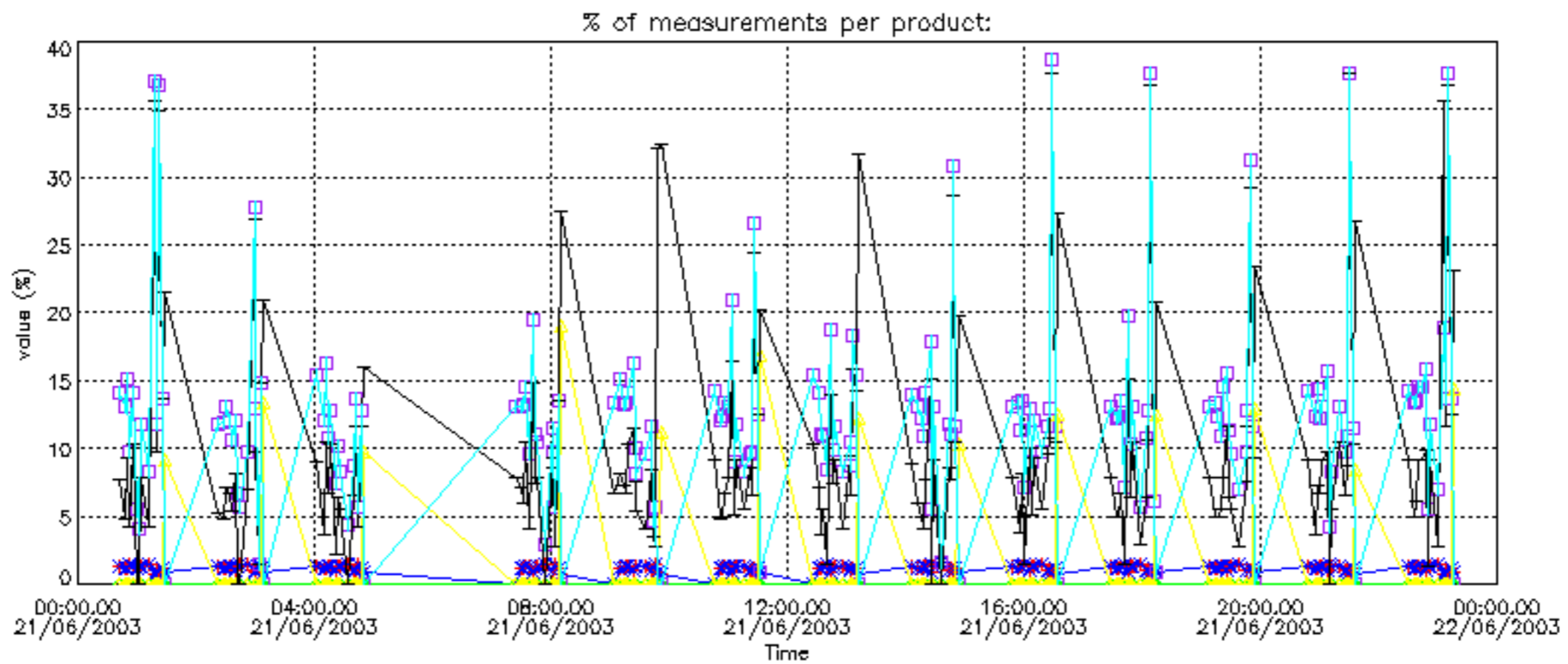
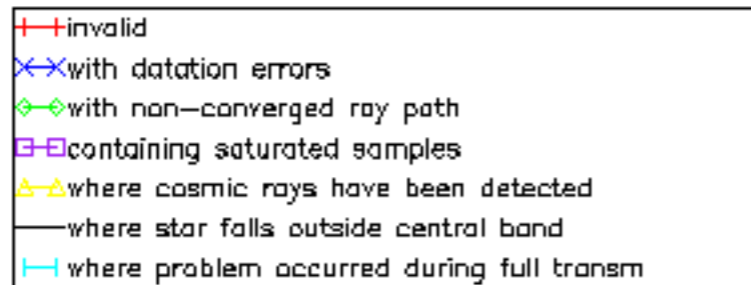
Percentage of flagged data per NO2 profile



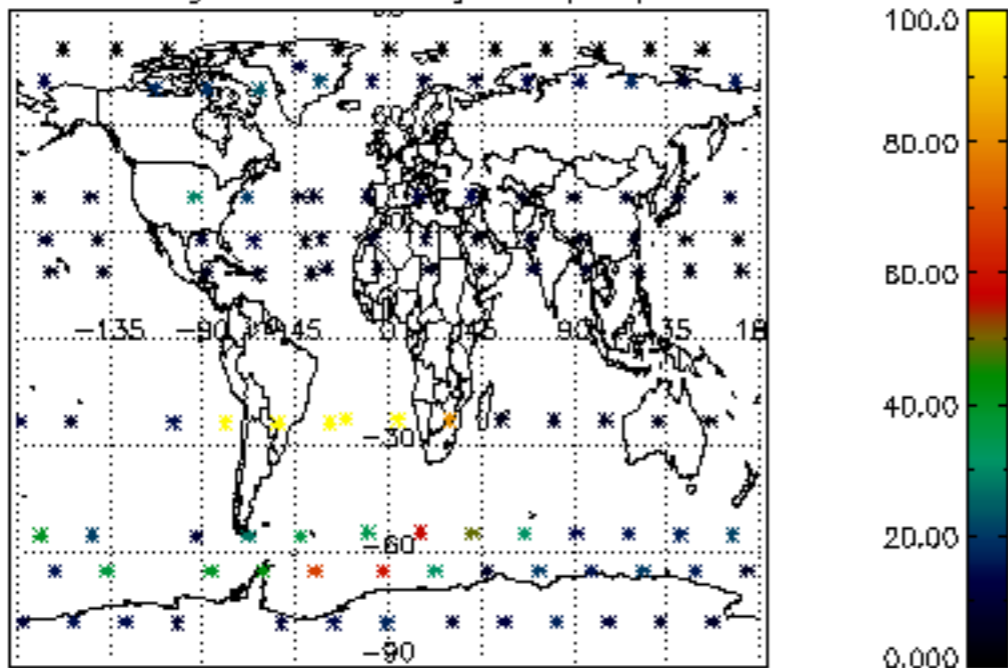
Percentage of flagged data per NO3 profile



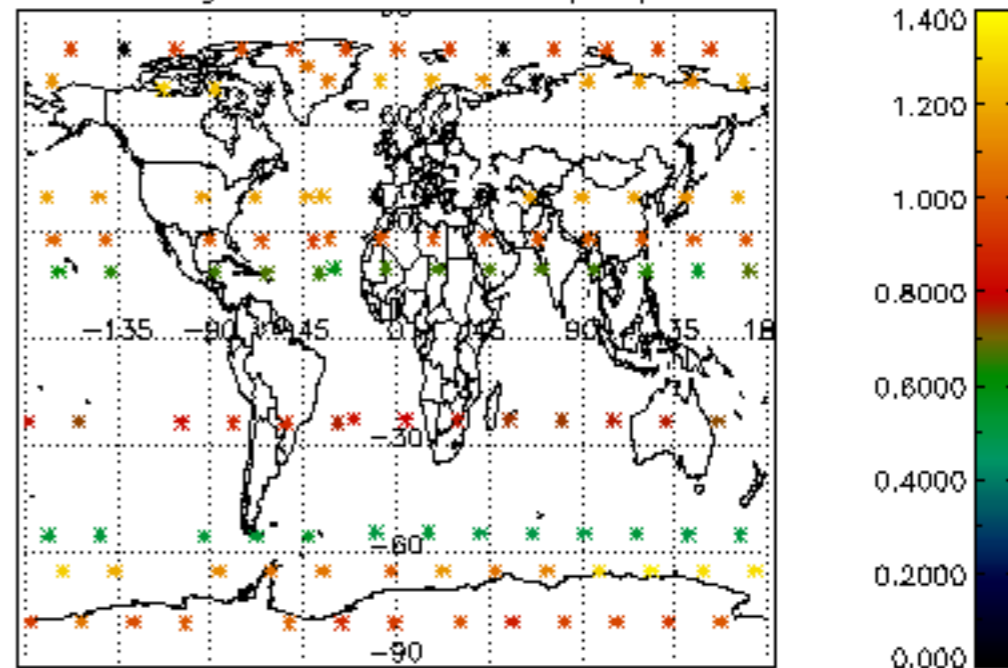




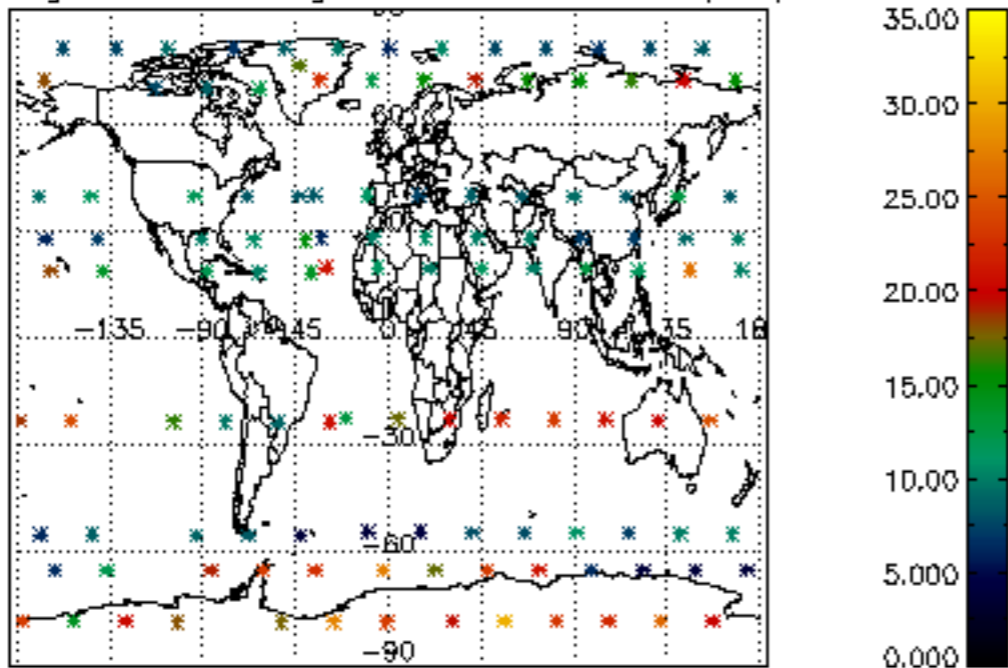
Percentage of cosmic ray hits per profile



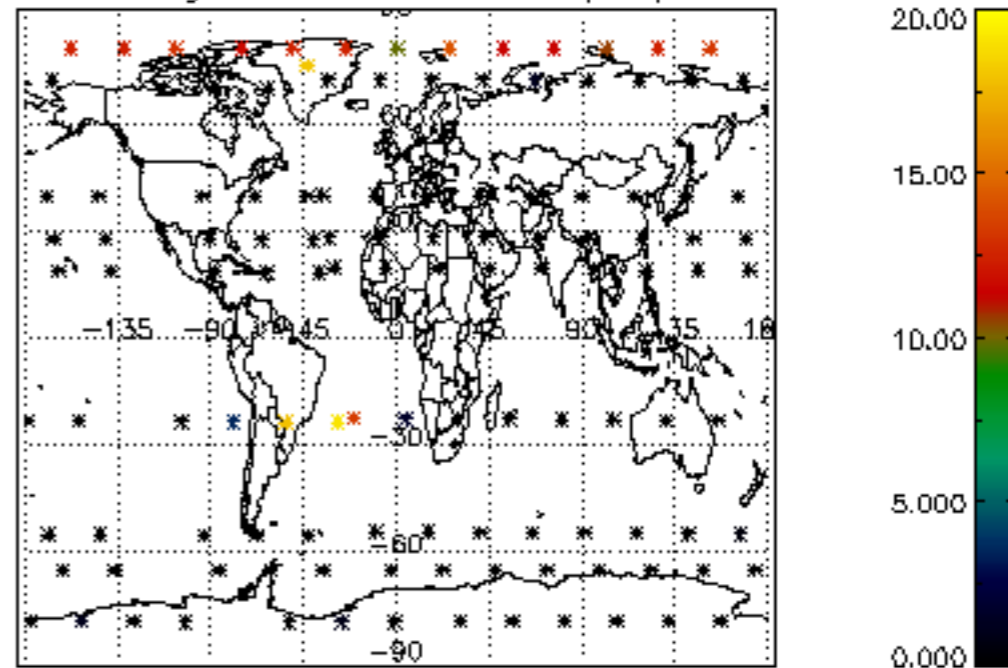
Percentage of datation errors per profile



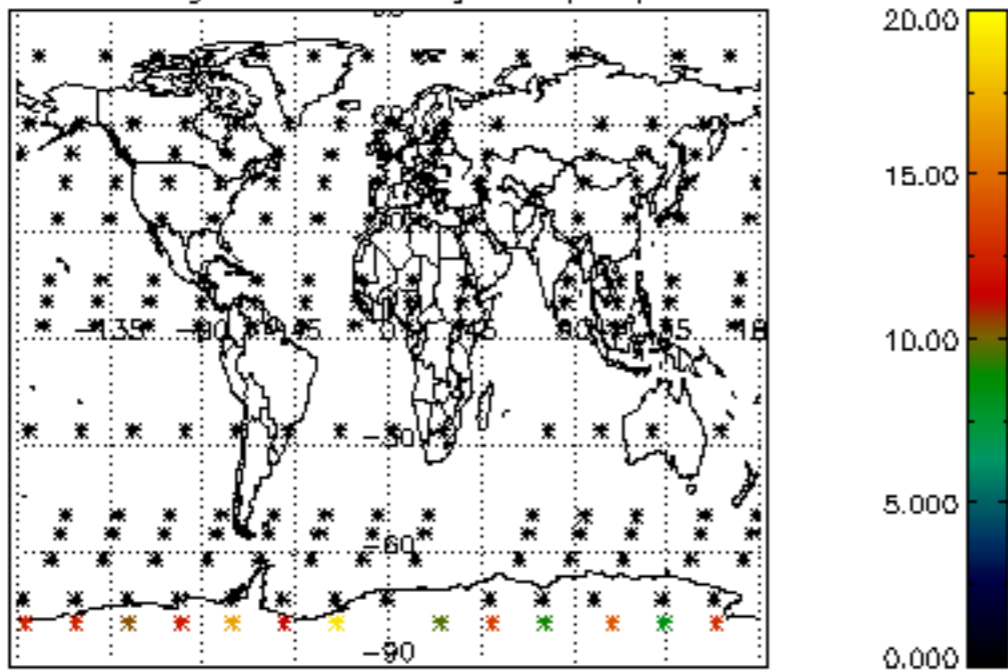
Percentage of star falling outside central band per profile



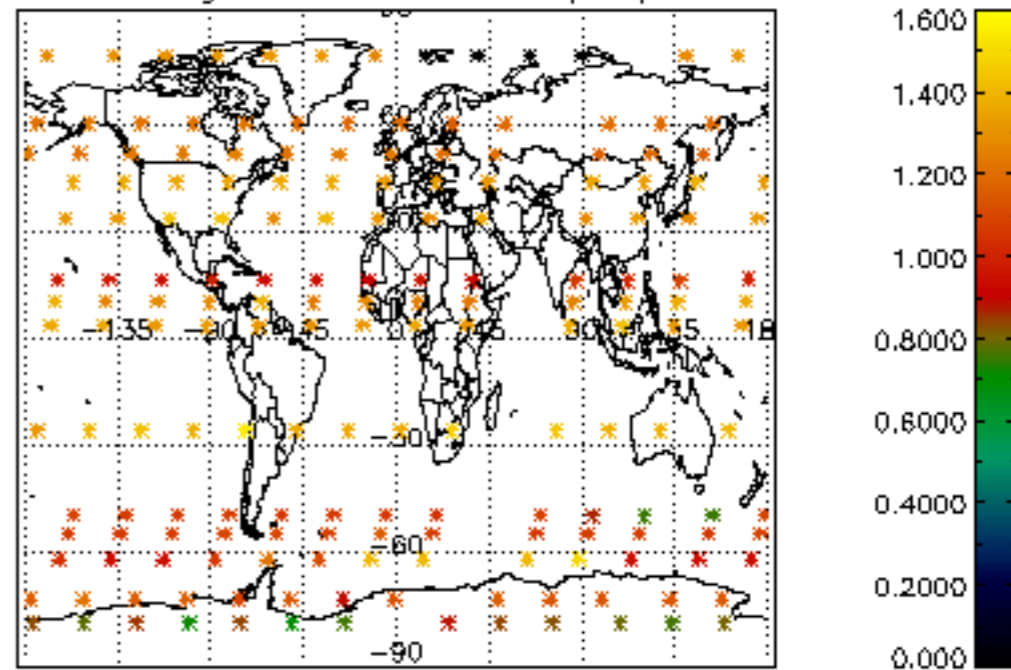
Percentage of saturation errors per profile



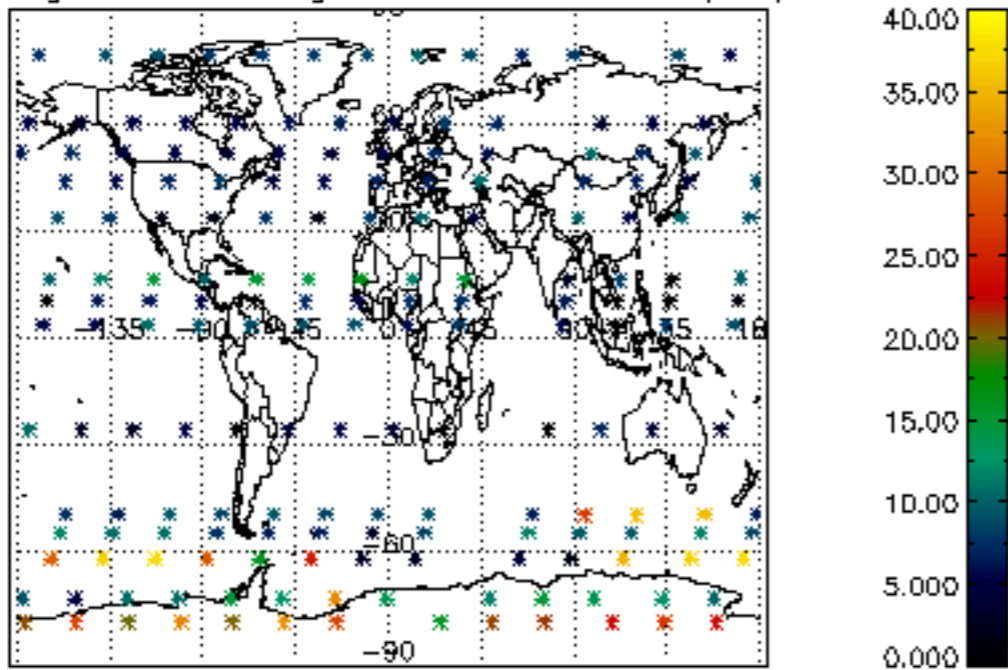
Percentage of cosmic ray hits per profile



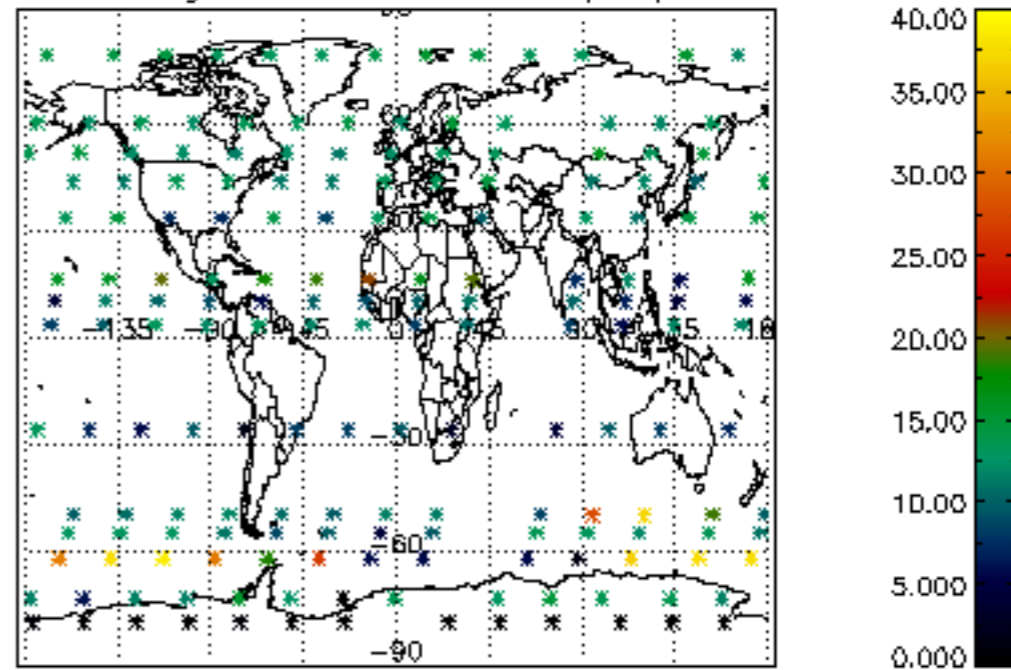
Percentage of datation errors per profile

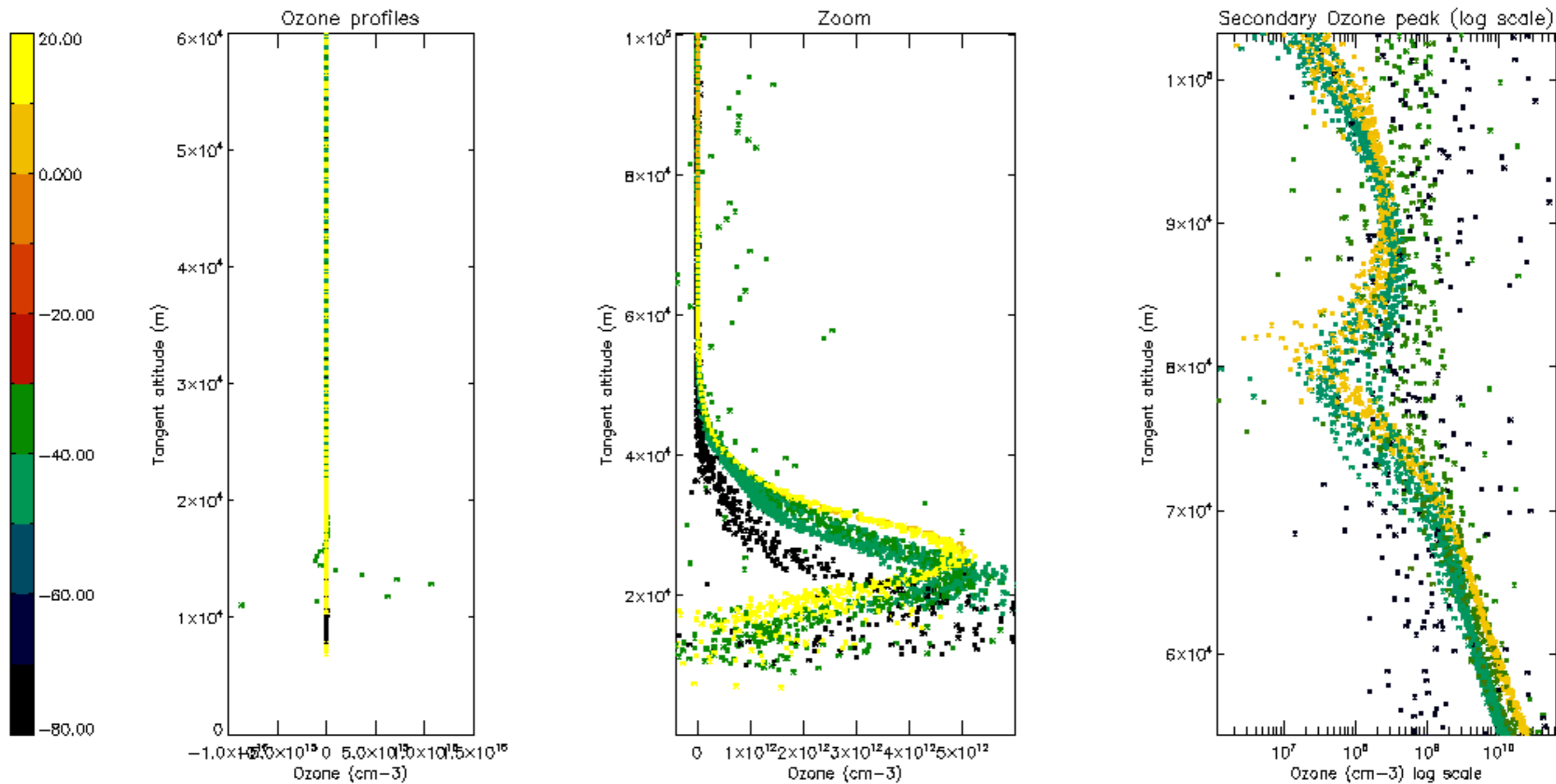


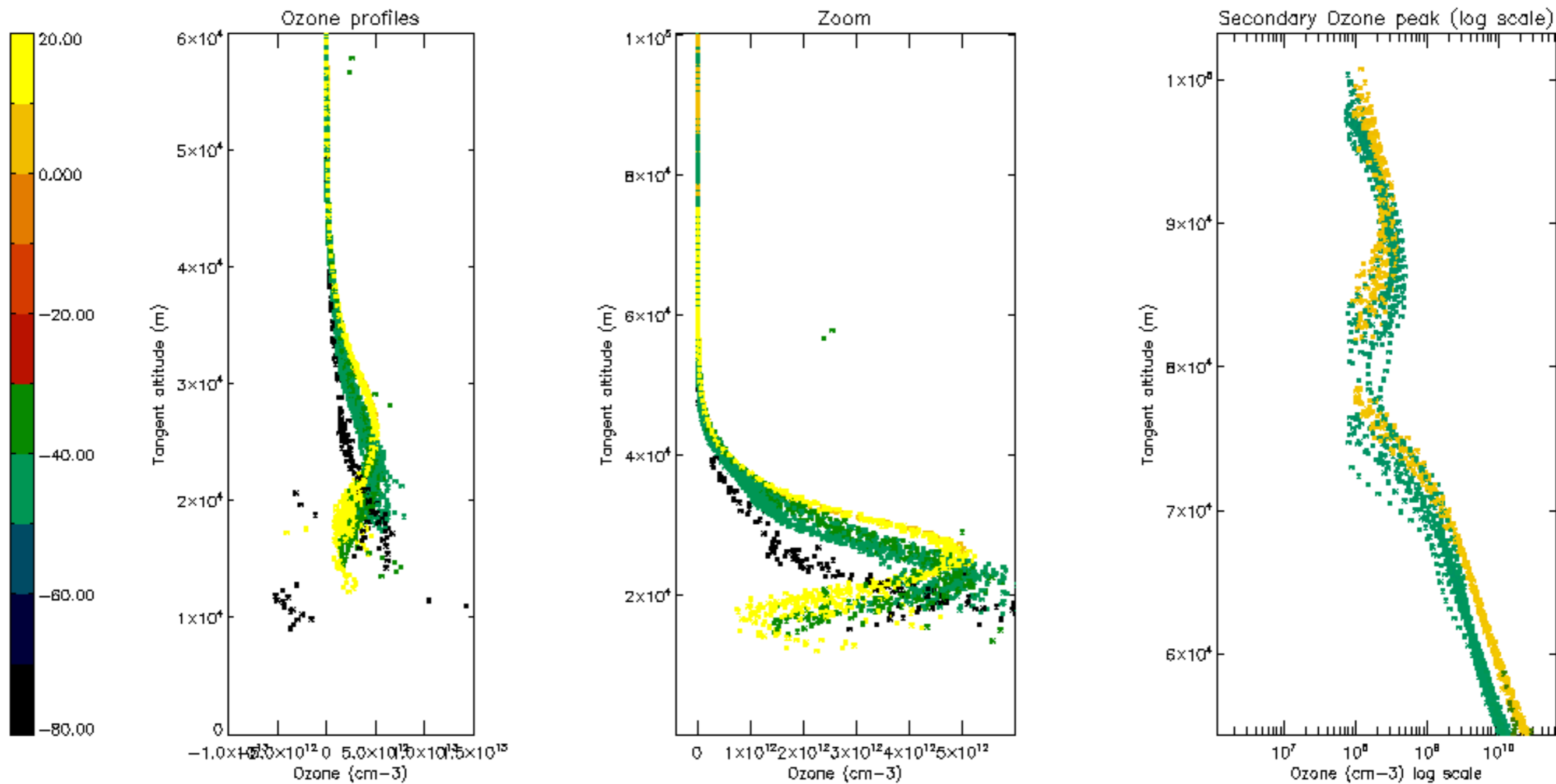
Percentage of star falling outside central band per profile

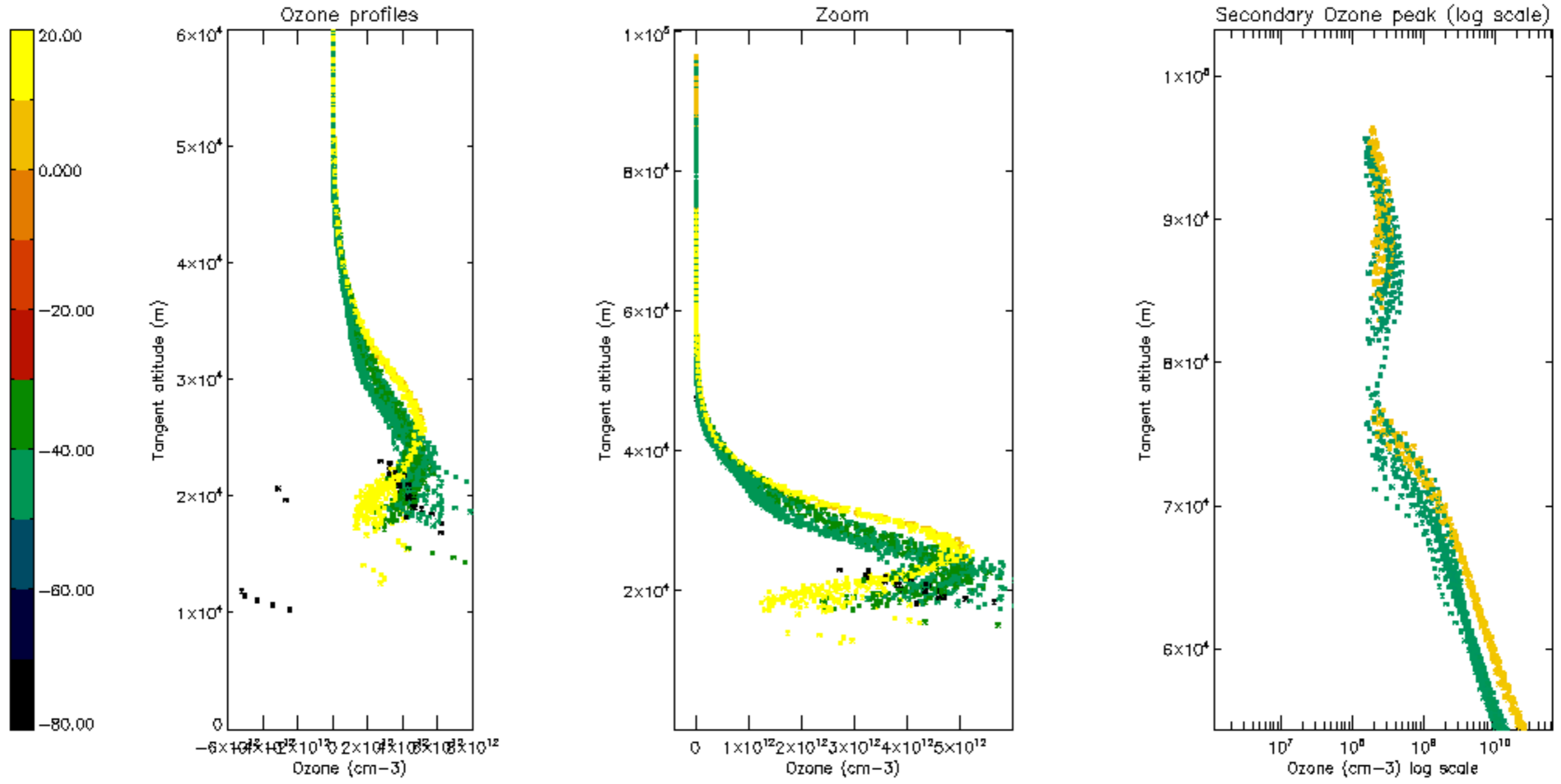


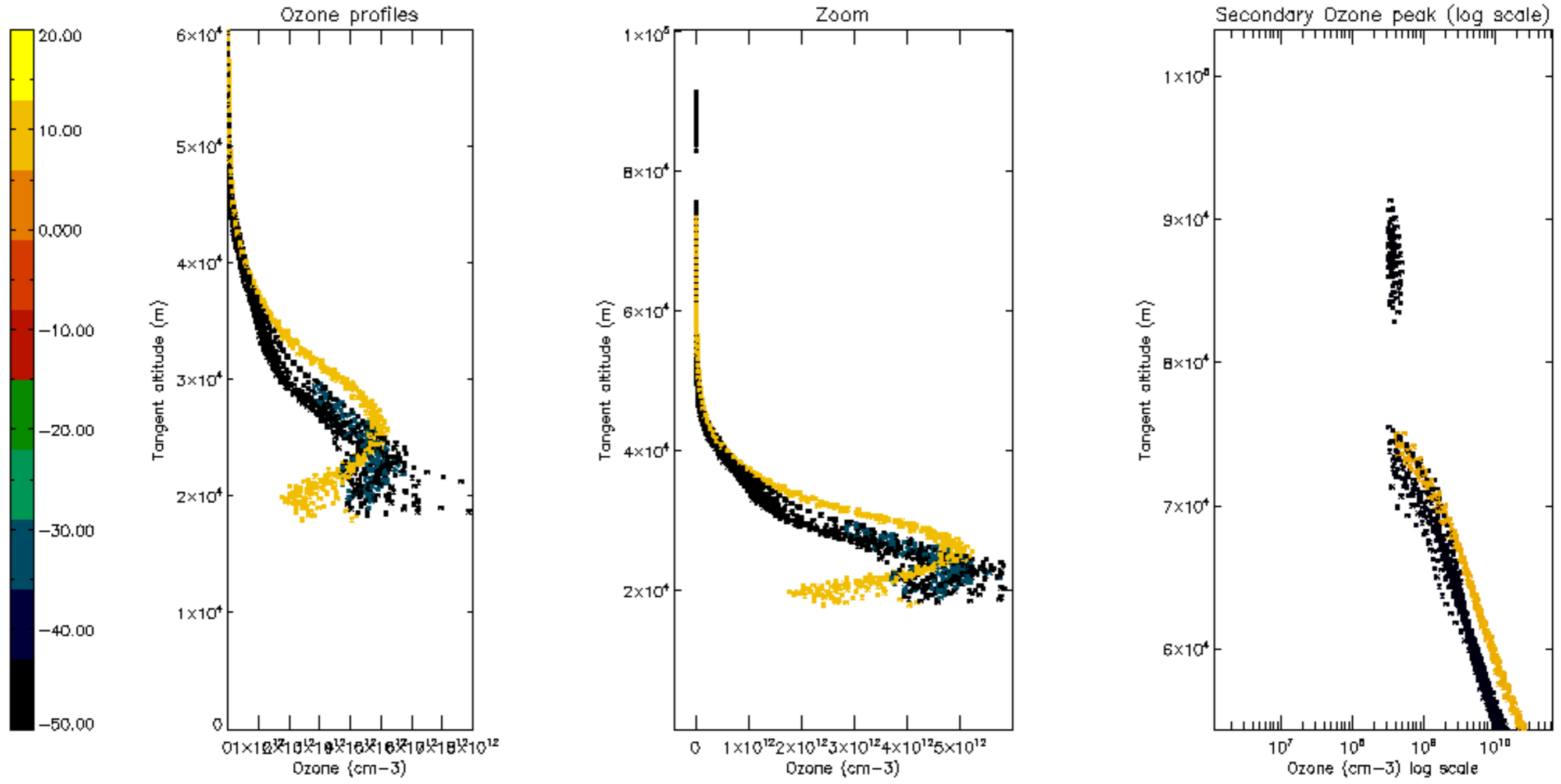
Percentage of saturation errors per profile

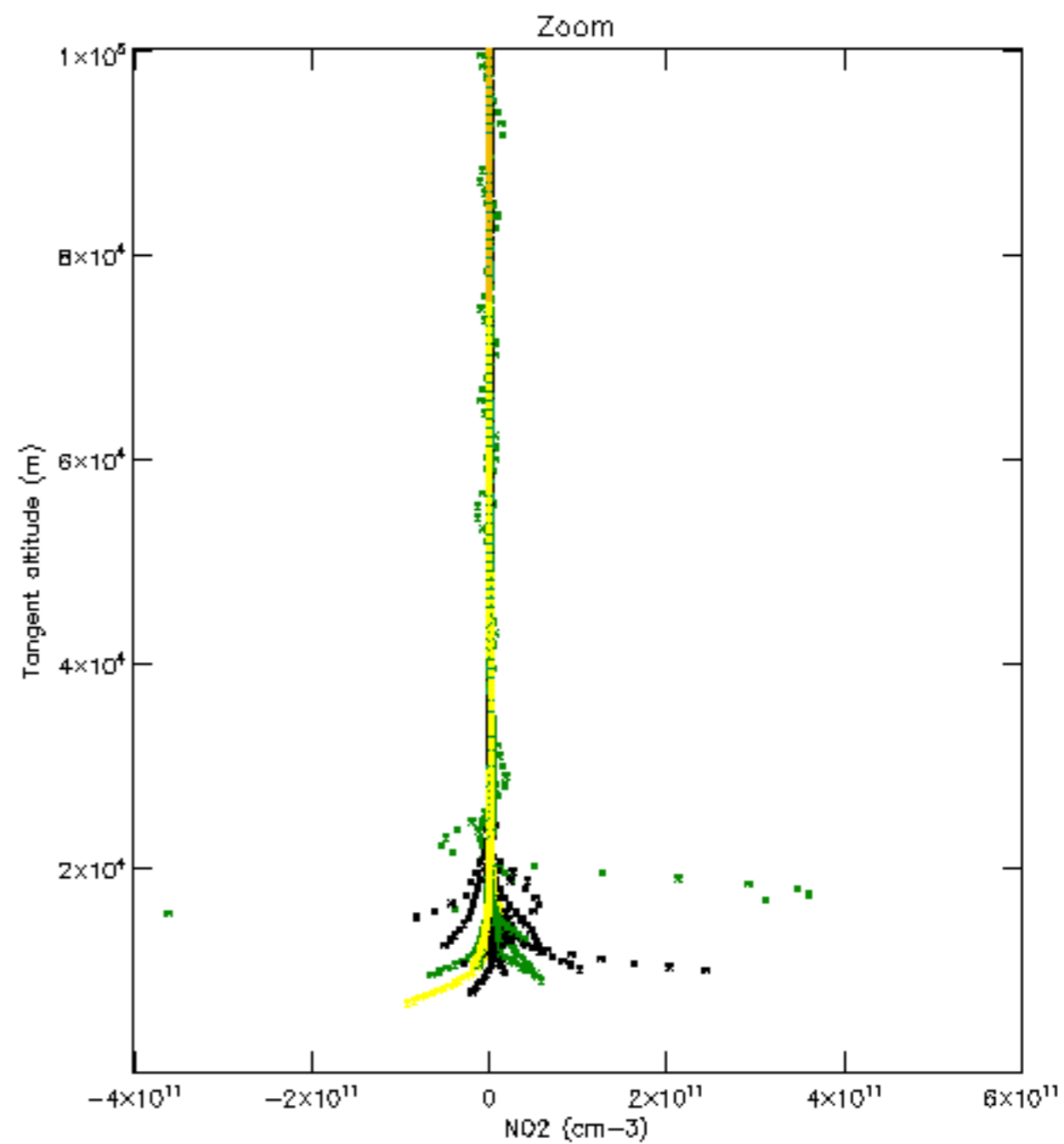
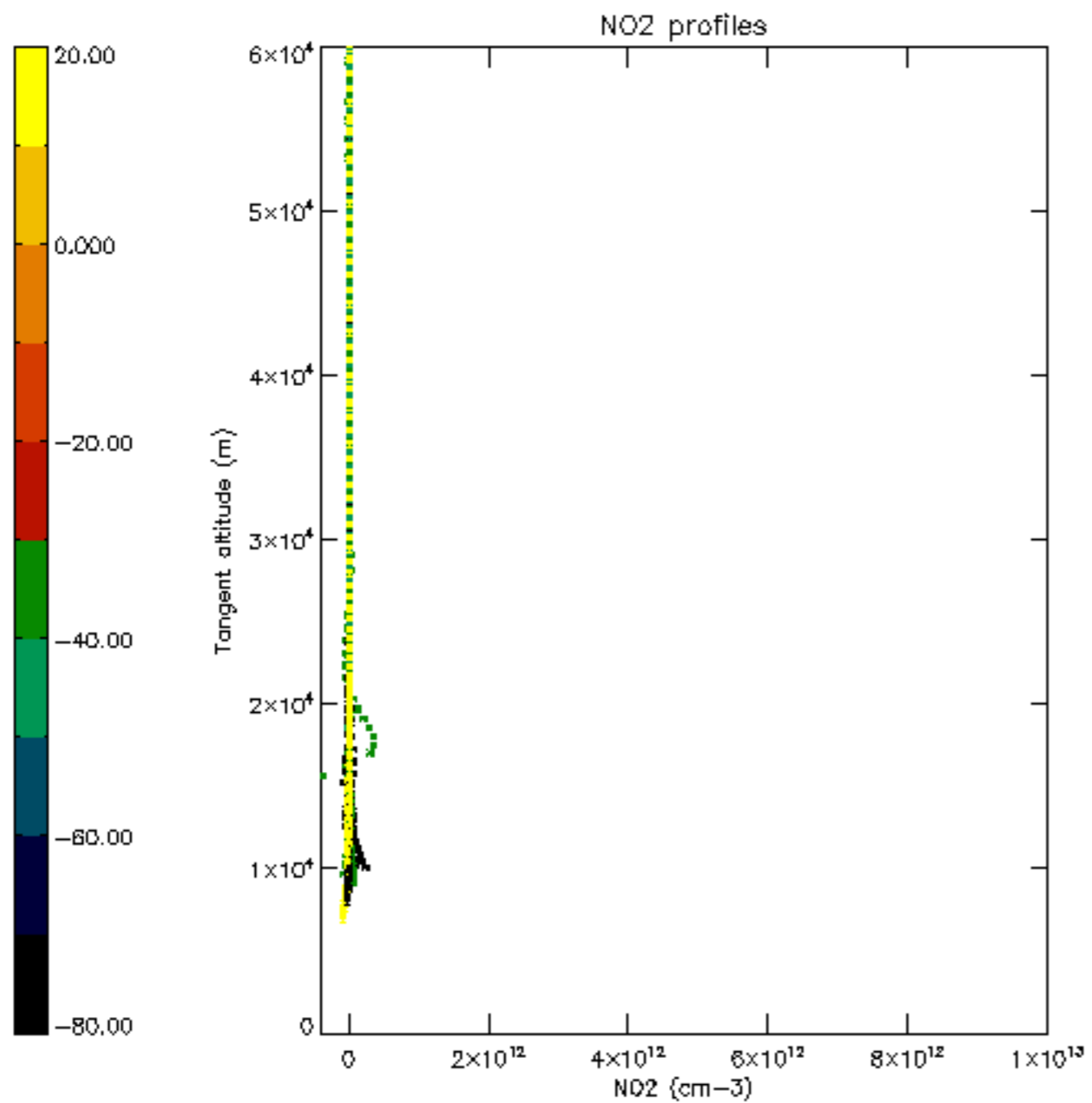


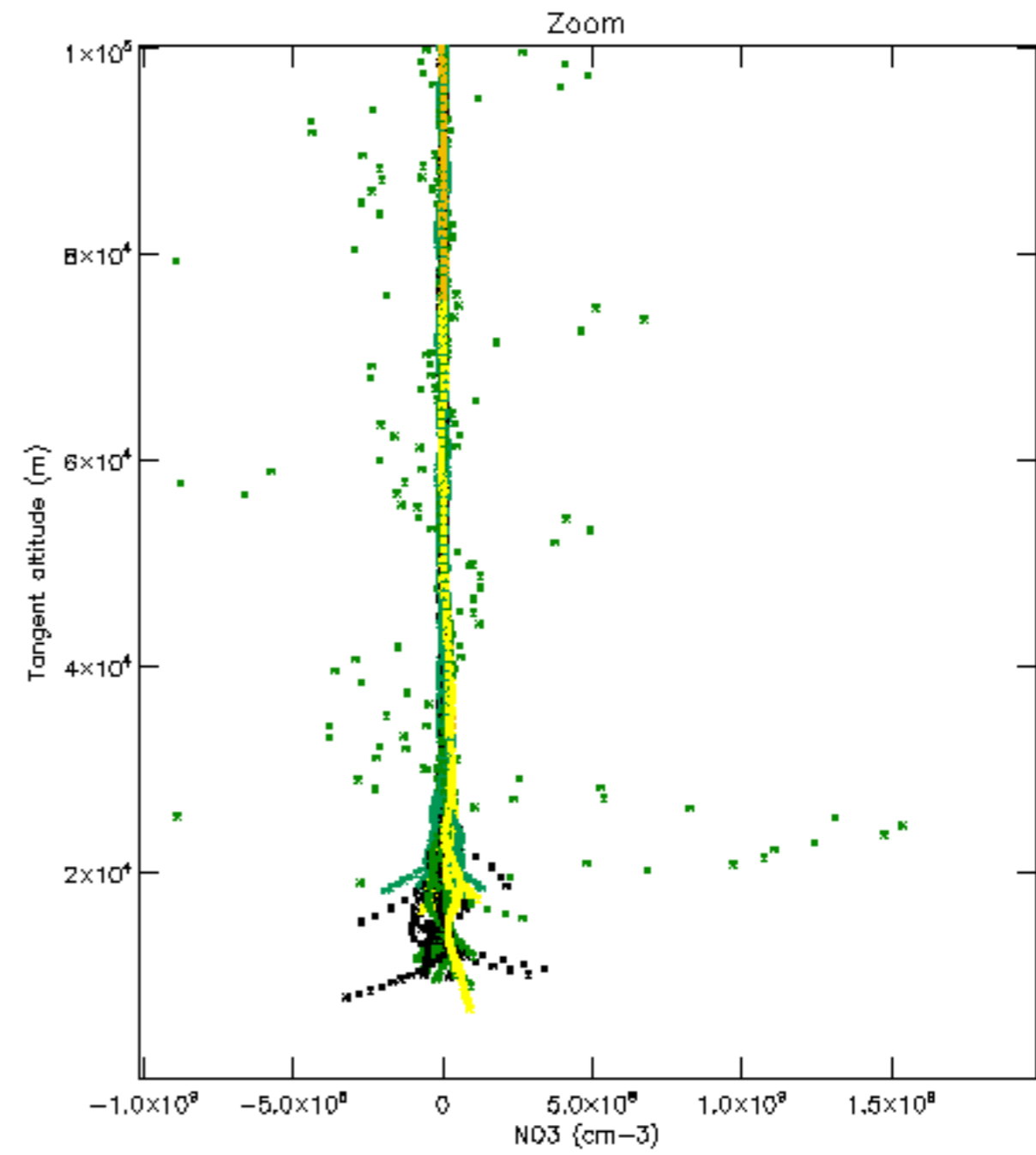
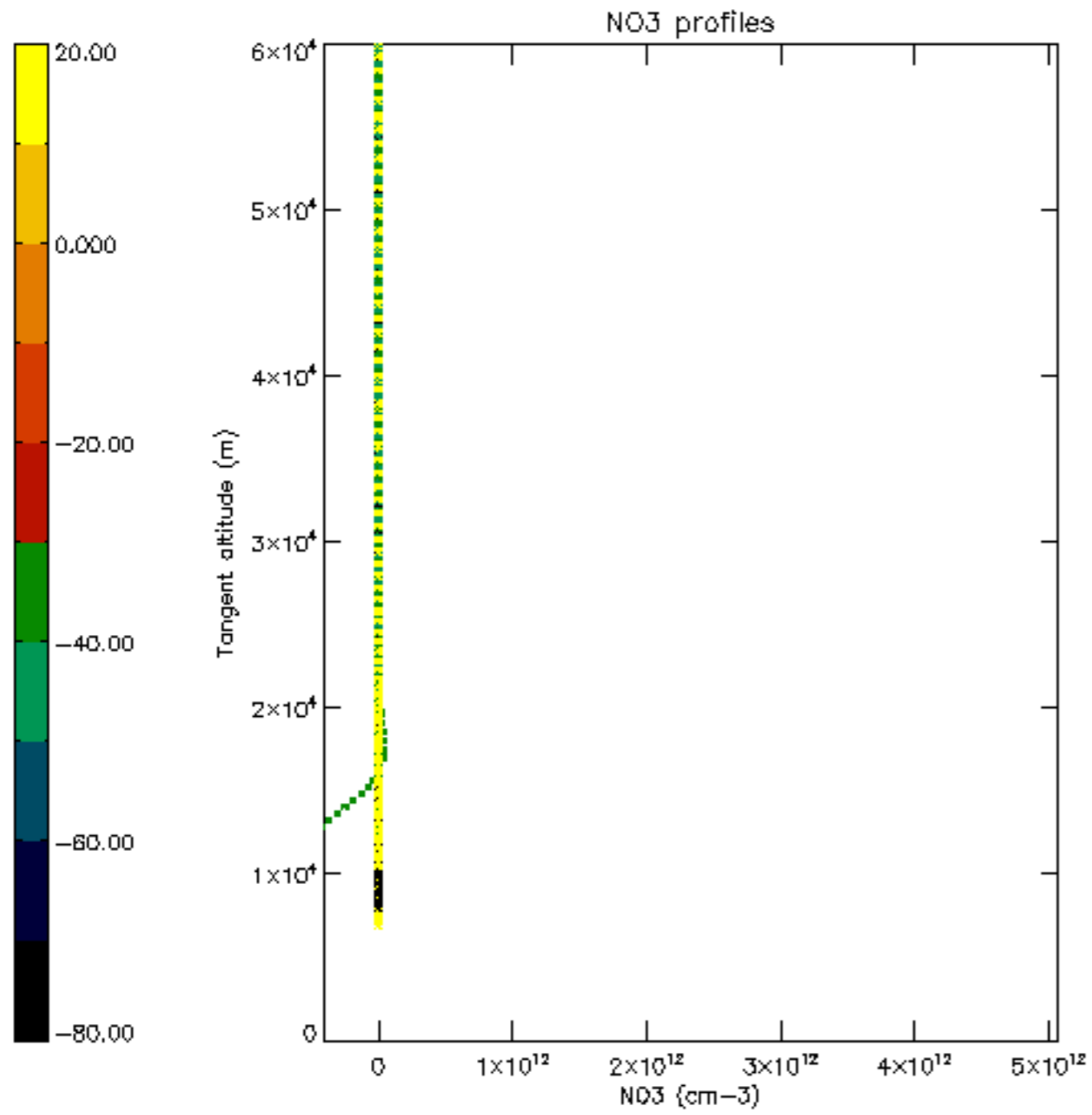


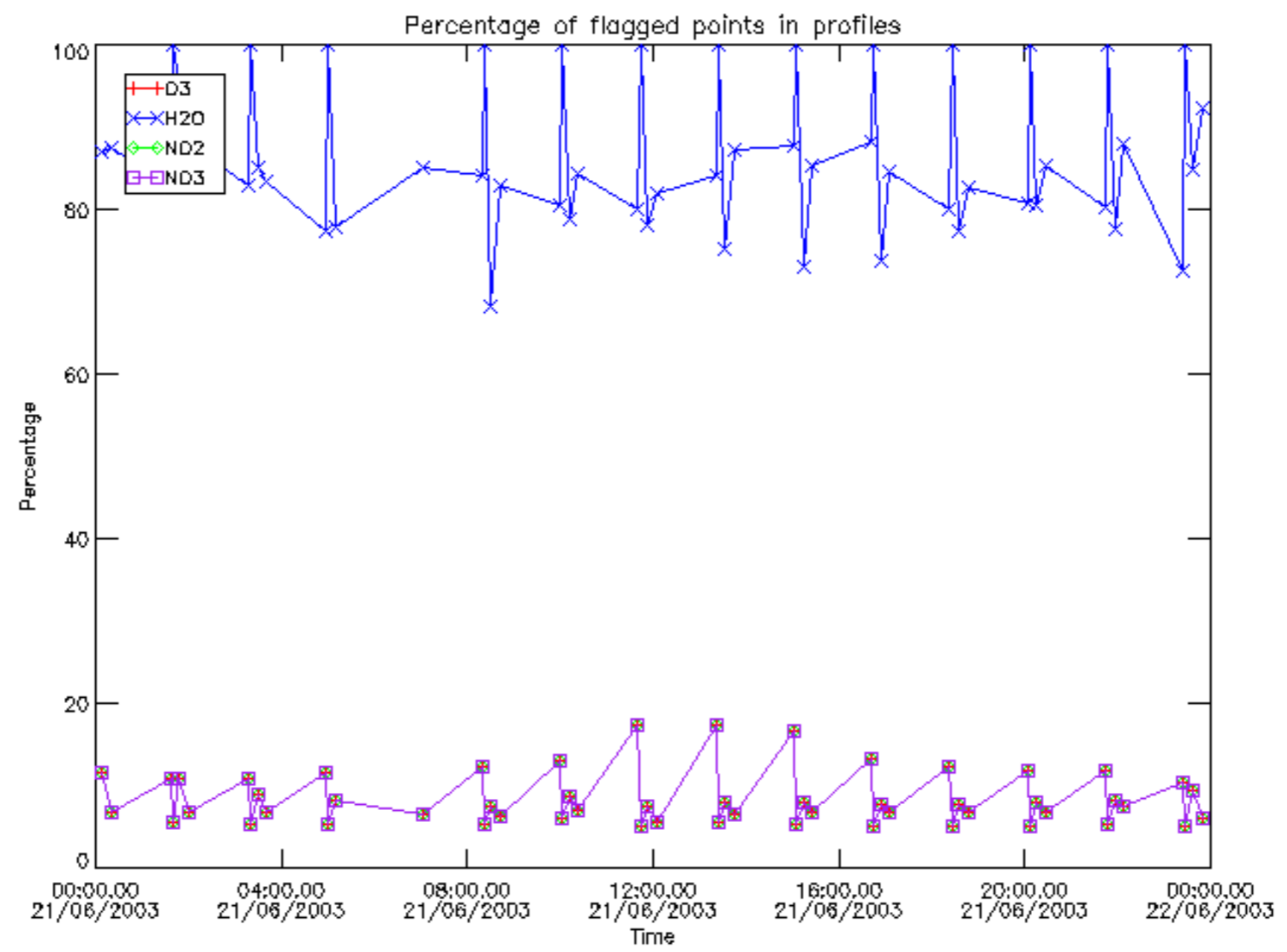




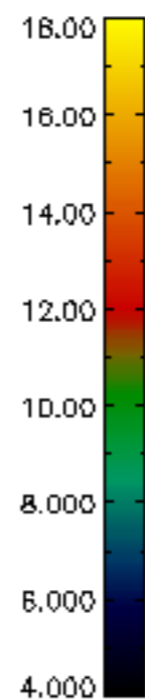
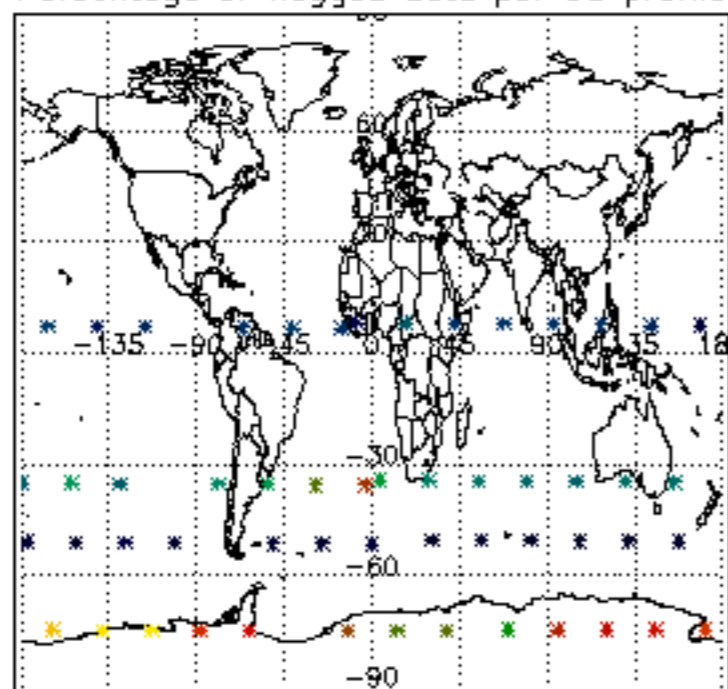




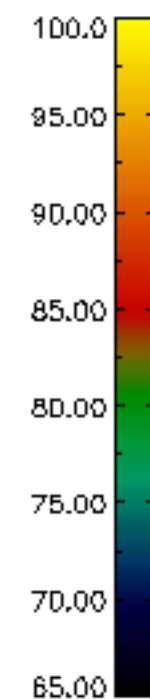
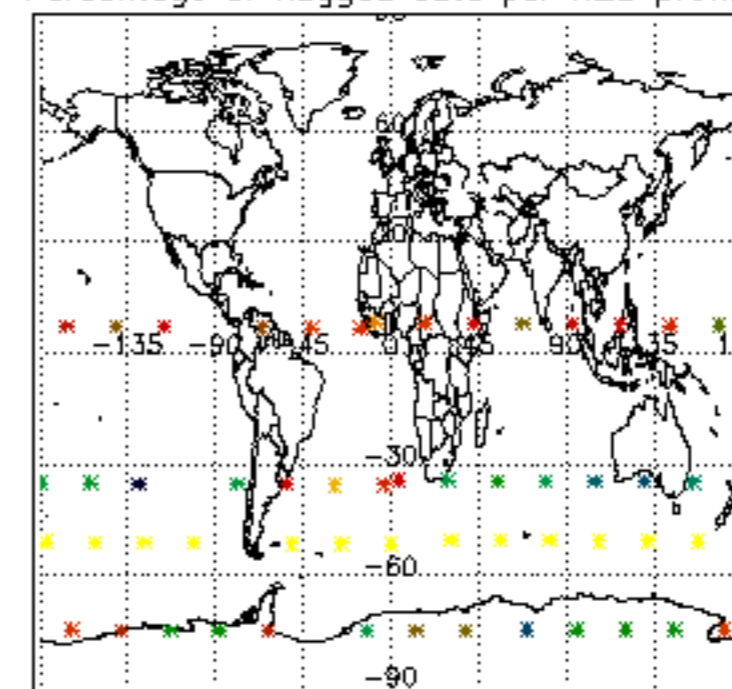




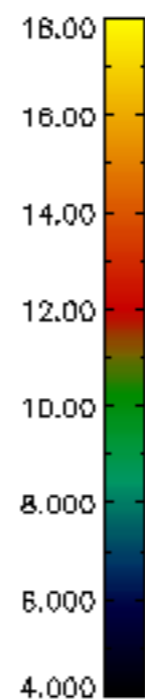
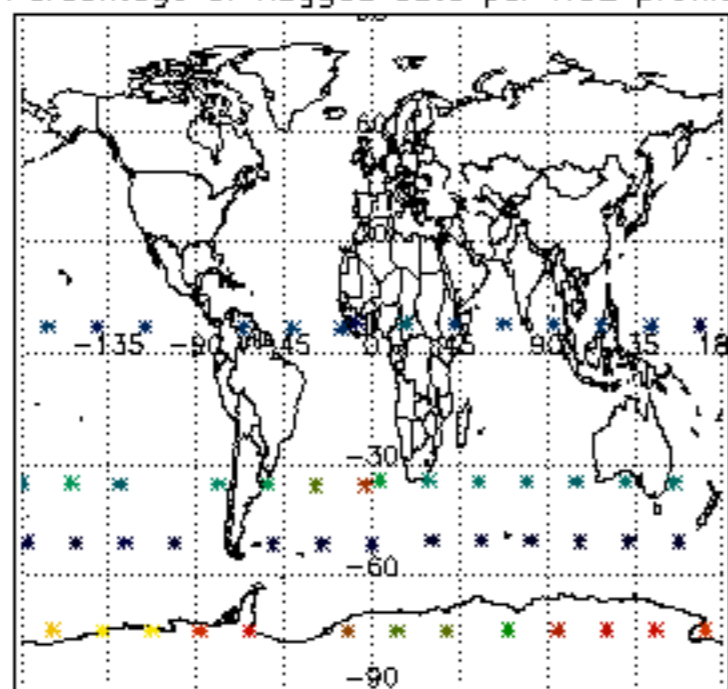
Percentage of flagged data per D3 profile



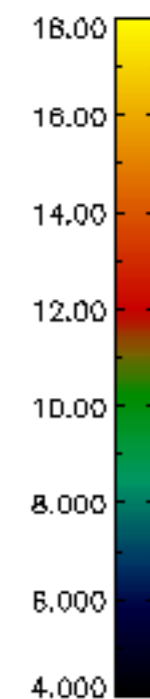
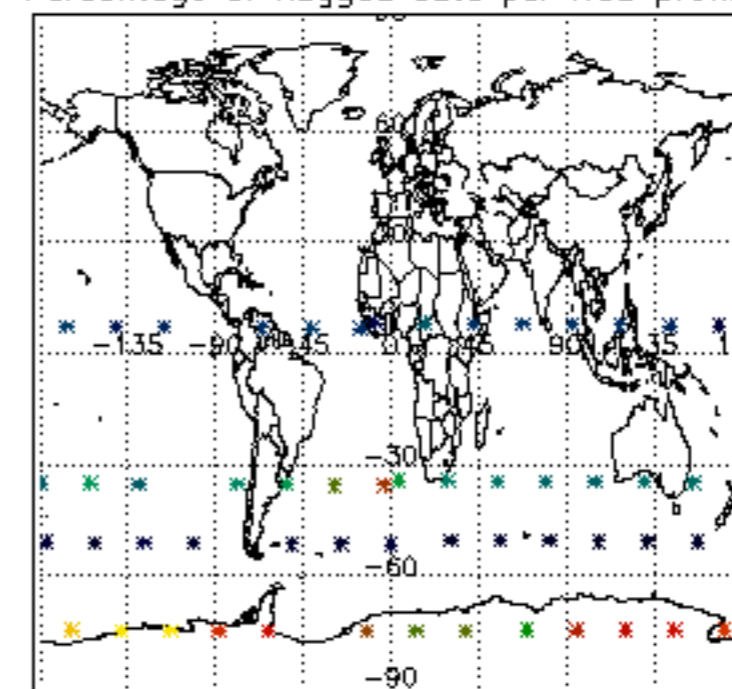
Percentage of flagged data per H2O profile

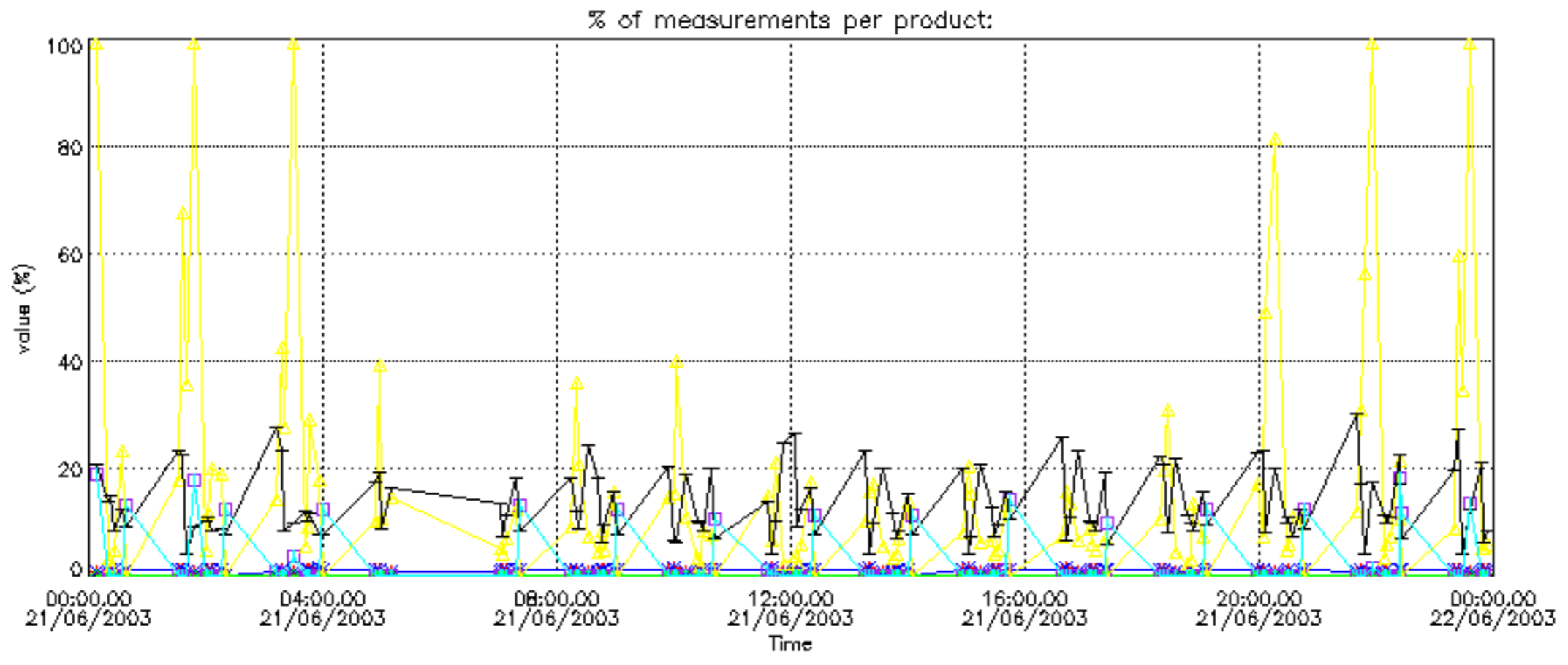
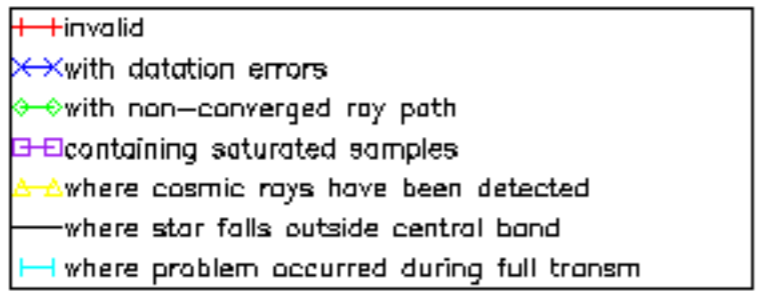


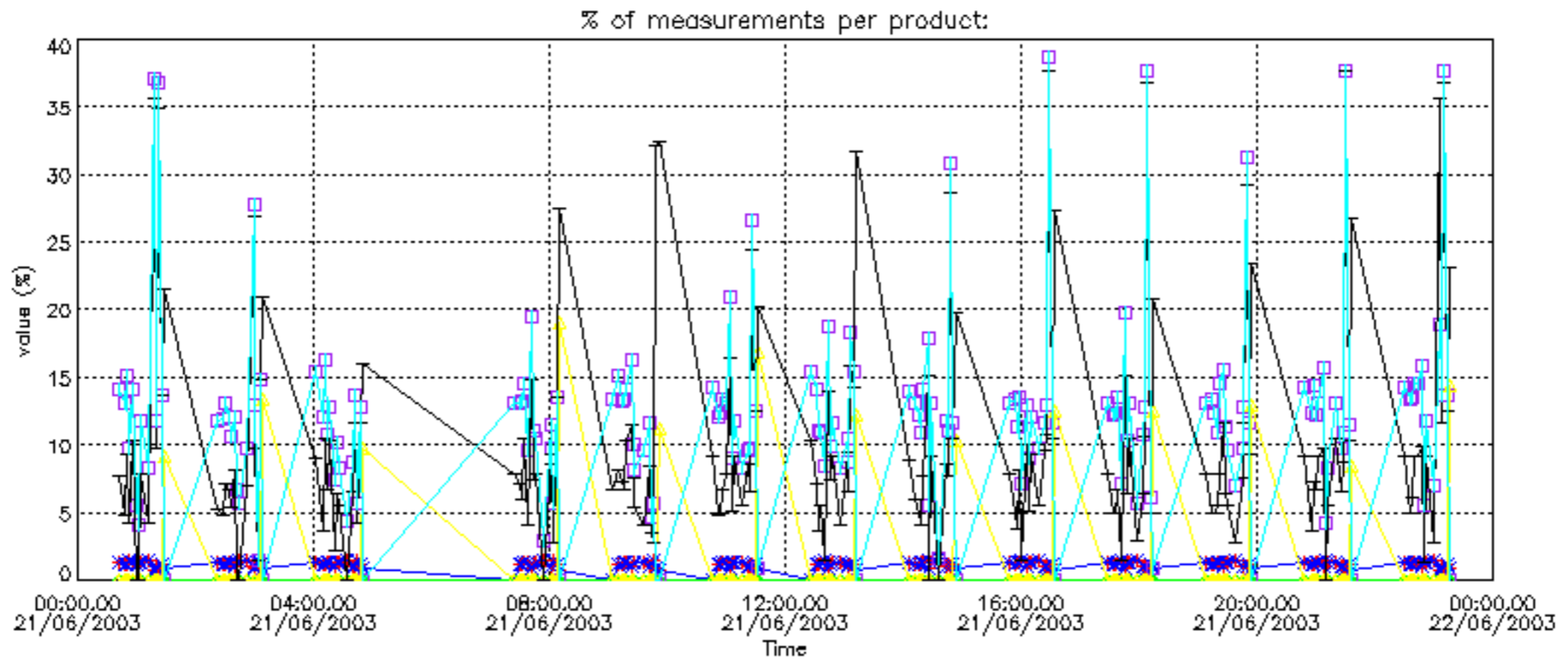
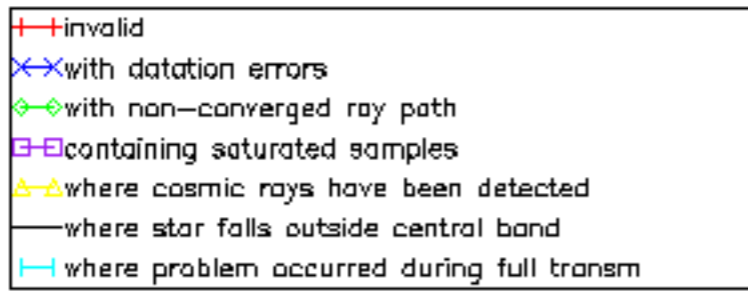
Percentage of flagged data per NO2 profile



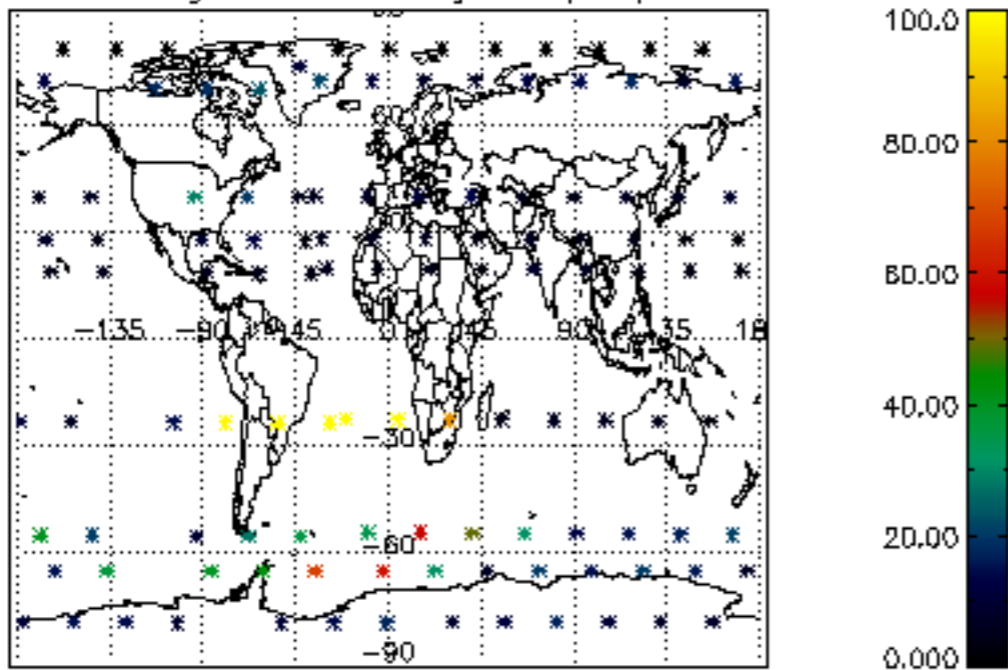
Percentage of flagged data per NO3 profile



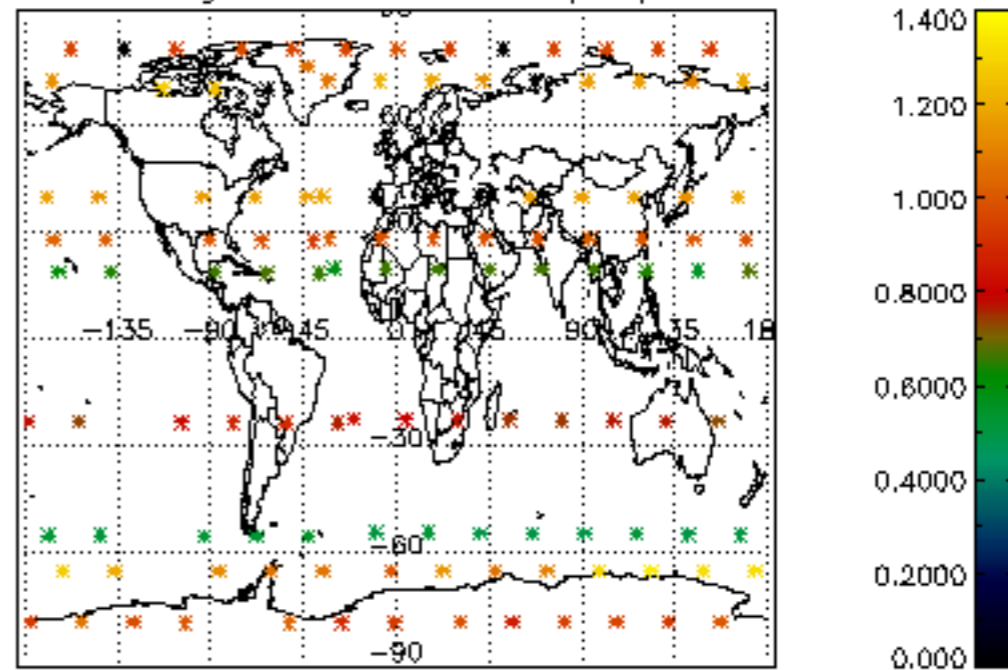




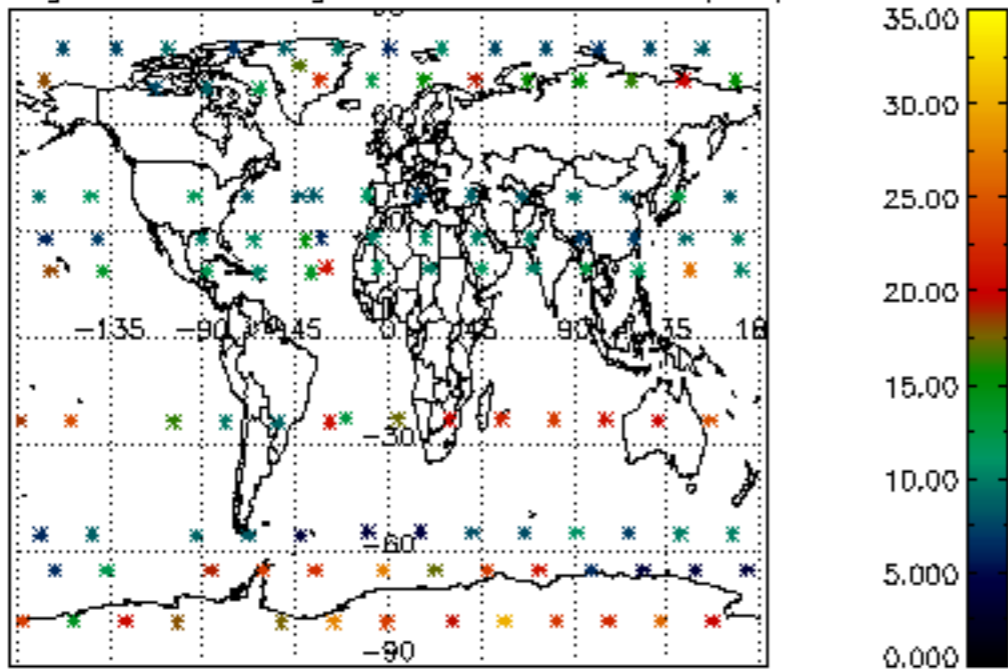
Percentage of cosmic ray hits per profile



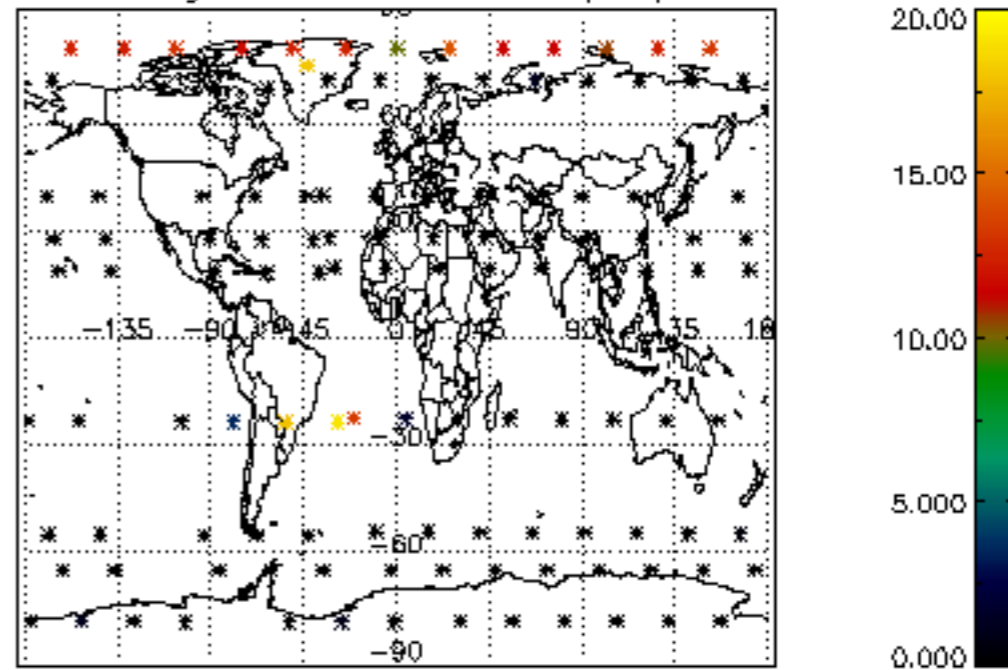
Percentage of datation errors per profile



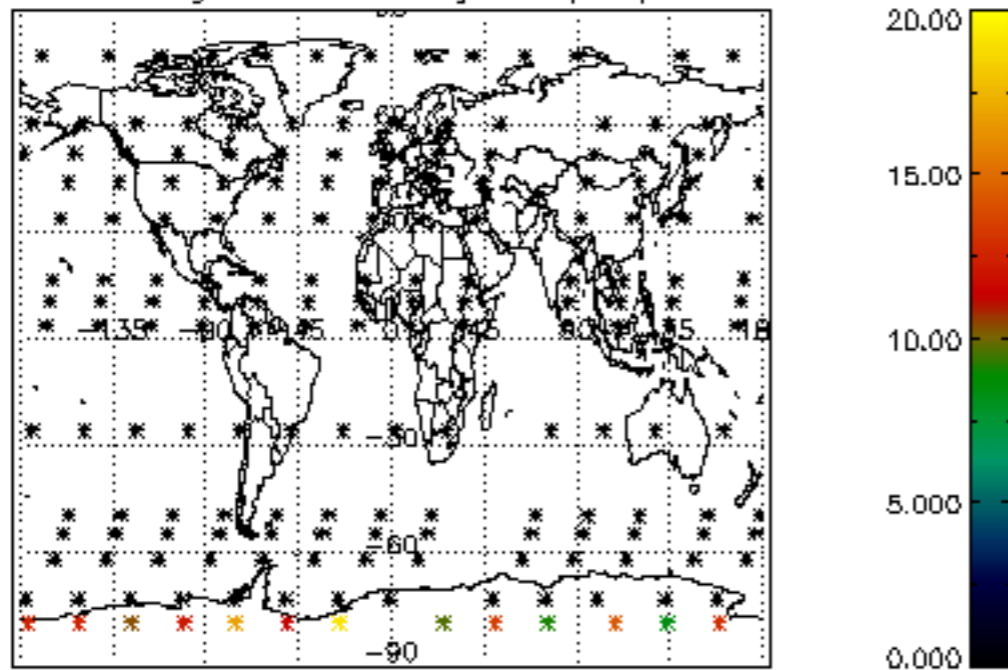
Percentage of star falling outside central band per profile



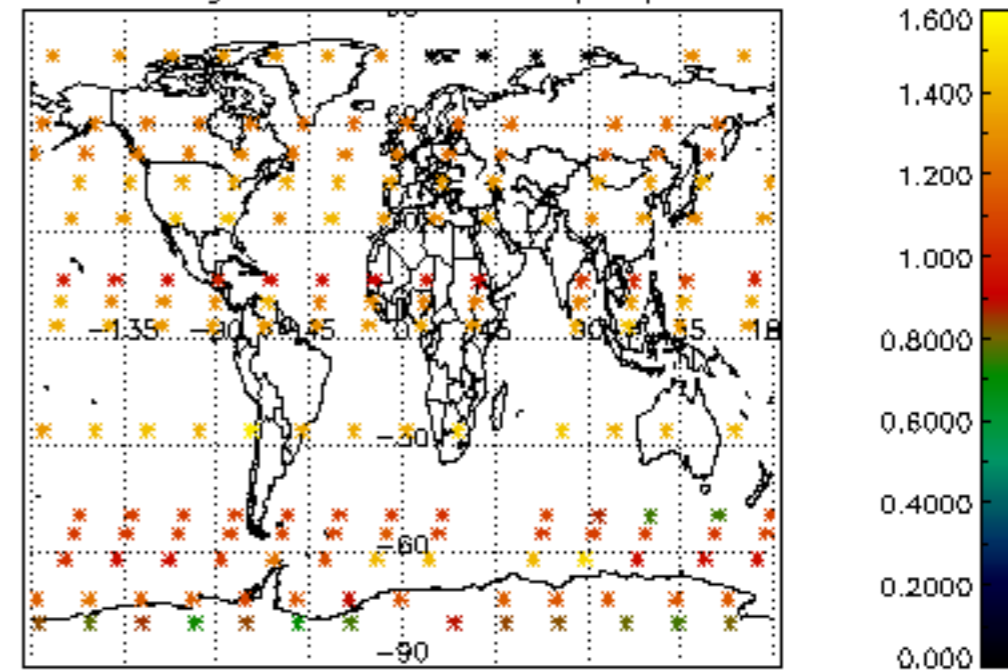
Percentage of saturation errors per profile



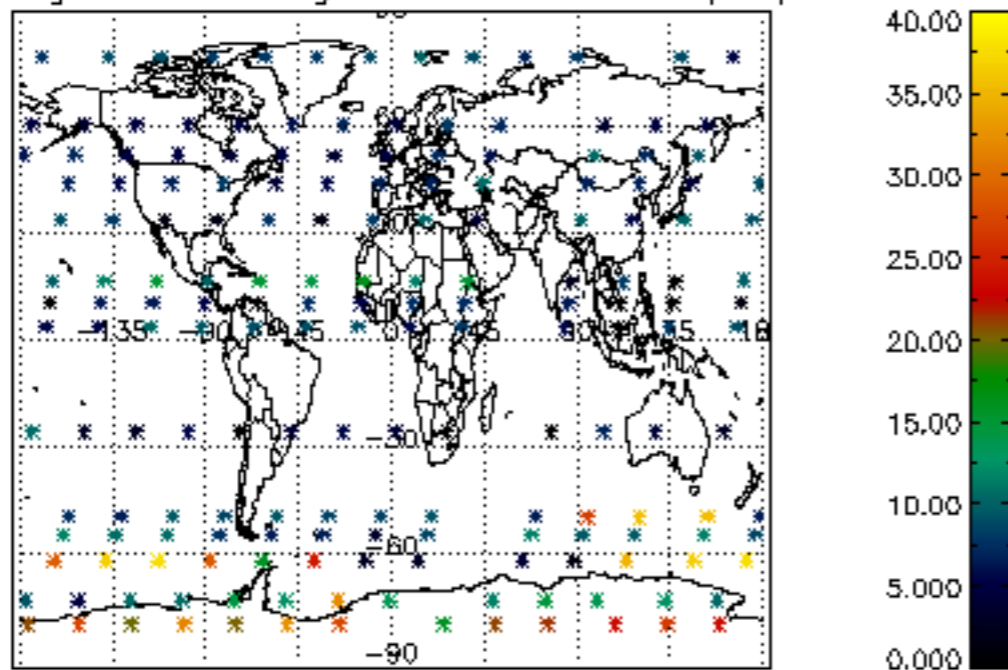
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

