

GOMOS Level 2 Daily Report

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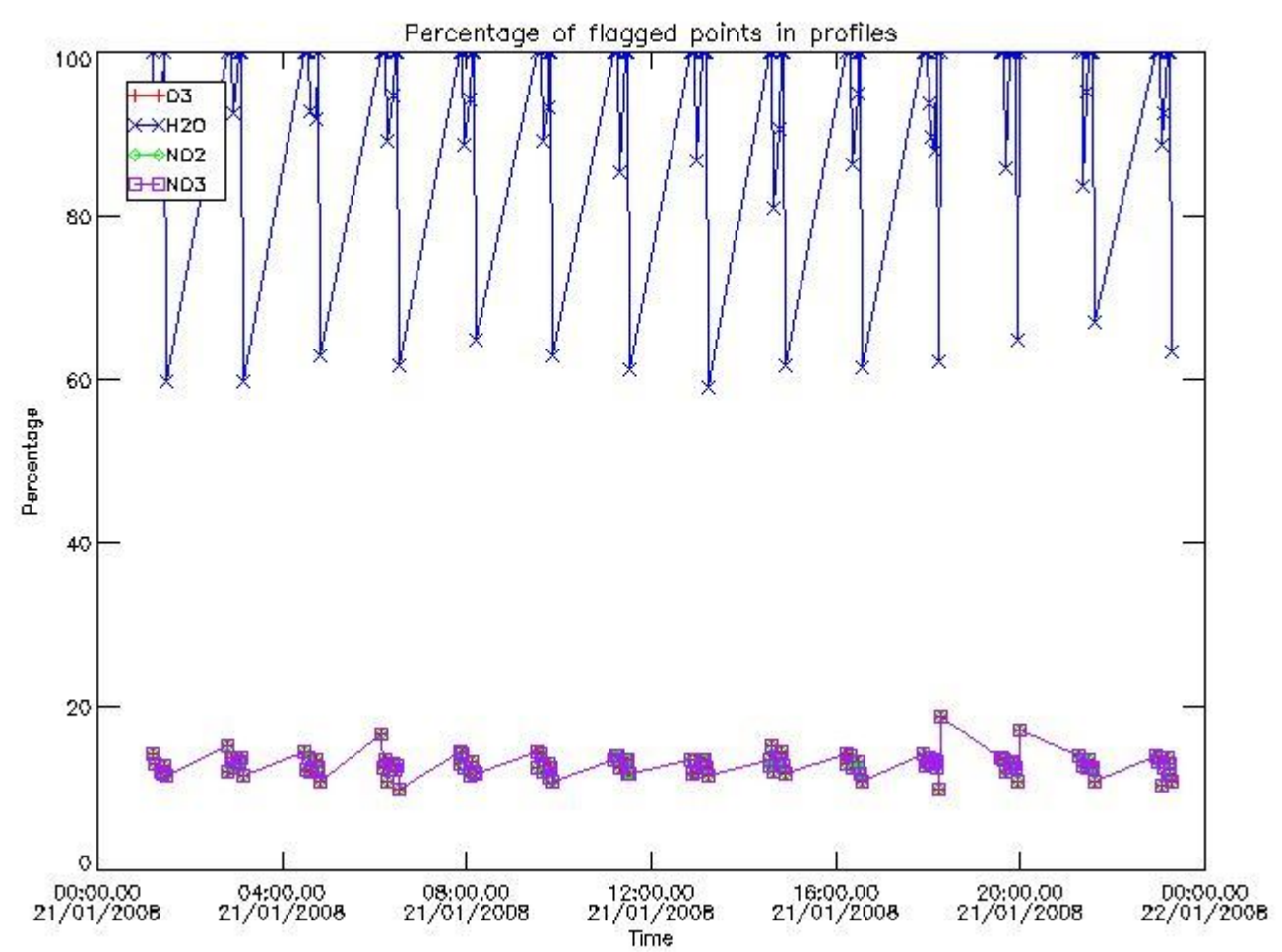
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397	GOM_NL_2PRFIN20080121_225719_000000392065_00201_30816_9898.N1	21-JAN-2008 22:57:19	Dark	38.500	141	Bet Ara	2.8400	4600.0	77	30816	No
398	GOM_NL_2PRFIN20080121_230033_000000372065_00202_30817_9898.N1	21-JAN-2008 23:00:33	Dark	37.000	134	Bet TrA	2.8100	6600.0	74	30817	No
399	GOM_NL_2PRFIN20080121_230252_000000492065_00202_30817_9899.N1	21-JAN-2008 23:02:52	Dark	49.000	10	Bet Cen	0.61000	28000.	98	30817	No
400	GOM_NL_2PRFIN20080121_230619_000000412065_00202_30817_9900.N1	21-JAN-2008 23:06:19	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	30817	No
401	GOM_NL_2PRFIN20080121_231035_000000372065_00202_30817_9901.N1	21-JAN-2008 23:10:35	Dark	37.000	29	Bet Car	1.6720	10200.	74	30817	No
402	GOM_NL_2PRFIN20080121_231241_000000392065_00202_30817_9902.N1	21-JAN-2008 23:12:41	Dark	39.000	71	lot Car	2.2460	7700.0	78	30817	No
403	GOM_NL_2PRFIN20080121_231430_000000442065_00202_30817_9903.N1	21-JAN-2008 23:14:30	Dark	43.500	46	Del Vel	1.9540	10600.	87	30817	No
404	GOM_NL_2PRFIN20080121_231709_000000472065_00202_30817_9904.N1	21-JAN-2008 23:17:09	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	30817	No
405	GOM_NL_2PRFIN20080121_231916_000000382065_00202_30817_9905.N1	21-JAN-2008 23:19:16	Straylight	38.000	70	Zet Pup	2.2460	39000.	76	30817	No
406	GOM_NL_2PRFIN20080121_232049_000000432065_00202_30817_9906.N1	21-JAN-2008 23:20:49	Straylight	43.000	117	Pi Pup	2.7060	3800.0	86	30817	No
407	GOM_NL_2PRFIN20080121_232319_000000432065_00202_30817_9907.N1	21-JAN-2008 23:23:19	Straylight	43.000	23	21Eps CMa	1.5020	26000.	86	30817	No
408	GOM_NL_2PRFIN20080121_232442_000000402065_00202_30817_9908.N1	21-JAN-2008 23:24:42	Straylight	40.000	179	24Omi2CMa	3.0320	24000.	80	30817	No
409	GOM_NL_2PRFIN20080121_232653_000000442065_00202_30817_9909.N1	21-JAN-2008 23:26:53	Straylight	44.000	1	9Alp CMa	-1.4400	11000.	88	30817	No
410	GOM_NL_2PRFIN20080121_232926_000000422065_00202_30817_9910.N1	21-JAN-2008 23:29:26	Straylight	42.000	56	53Kap Ori	2.0650	30000.	84	30817	No
411	GOM_NL_2PRFIN20080121_233155_000000422065_00202_30817_9911.N1	21-JAN-2008 23:31:55	Twilight	42.000	30	46Eps Ori	1.6940	30000.	84	30817	No
412	GOM_NL_2PRFIN20080121_233403_000000492065_00202_30817_9912.N1	21-JAN-2008 23:34:03	Twilight	48.500	14	58Alp Ori	0.87000	3000.0	97	30817	No
413	GOM_NL_2PRFIN20080121_233618_000000462065_00202_30817_9913.N1	21-JAN-2008 23:36:18	Bright	45.500	44	24Gam Gem	1.9280	11000.	91	30817	No
414	GOM_NL_2PRFIN20080121_233804_000000382065_00202_30817_9914.N1	21-JAN-2008 23:38:04	Bright	38.000	151	13Mu Gem	2.8900	3000.0	76	30817	No
415	GOM_NL_2PRFIN20080121_234013_000000362065_00202_30817_9915.N1	21-JAN-2008 23:40:13	Bright	36.000	28	12Bet Tau	1.6500	15200.	72	30817	No
416	GOM_NL_2PRFIN20080121_234215_000000362065_00202_30817_9916.N1	21-JAN-2008 23:42:15	Bright	35.500	107	37The Aur	2.6490	11000.	71	30817	No
417	GOM_NL_2PRFIN20080121_234425_000000352065_00202_30817_9917.N1	21-JAN-2008 23:44:25	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	30817	No
418	GOM_NL_2PRFIN20080121_235658_000000352065_00202_30817_9918.N1	21-JAN-2008 23:56:58	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	30817	No

3. Quality information per product

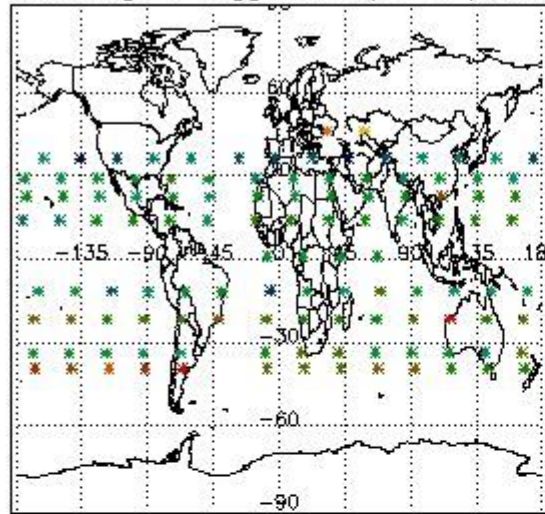
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

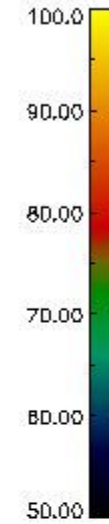
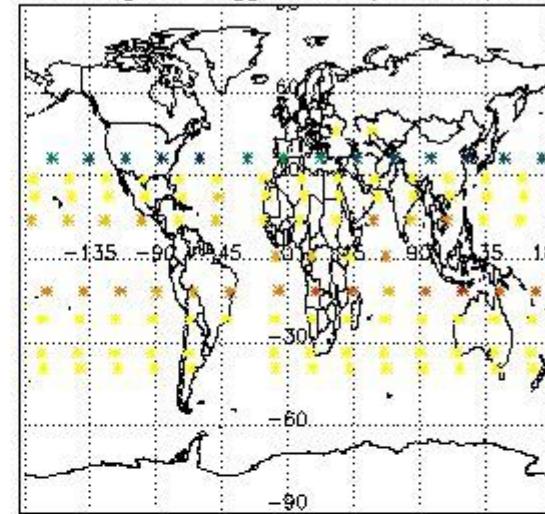


3.2 Plot quality information per product (world map)

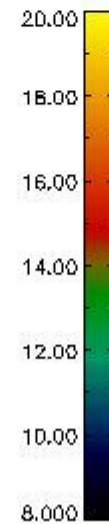
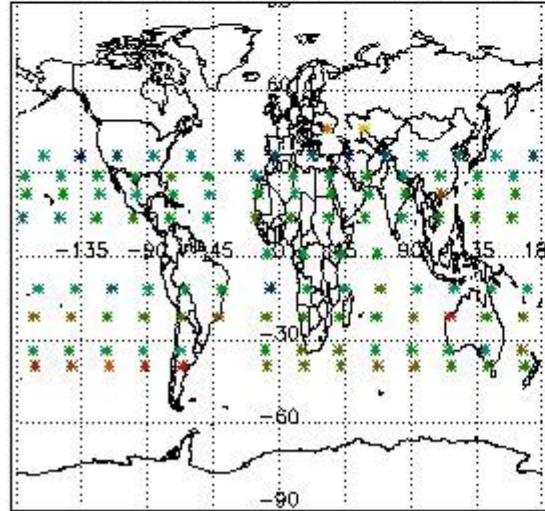
Percentage of flagged data per O3 profile



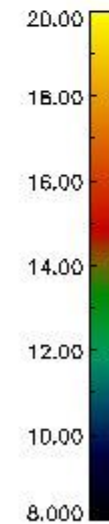
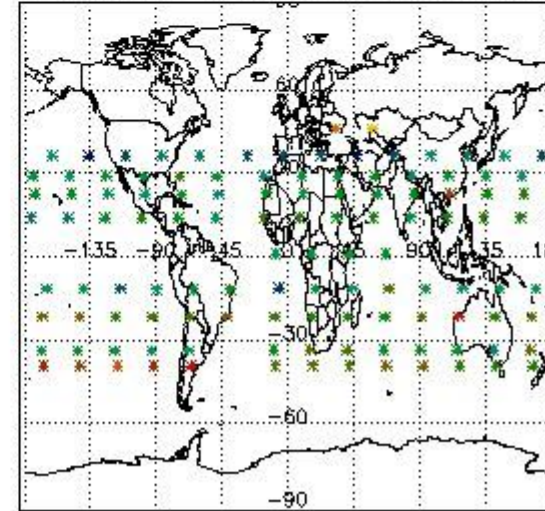
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

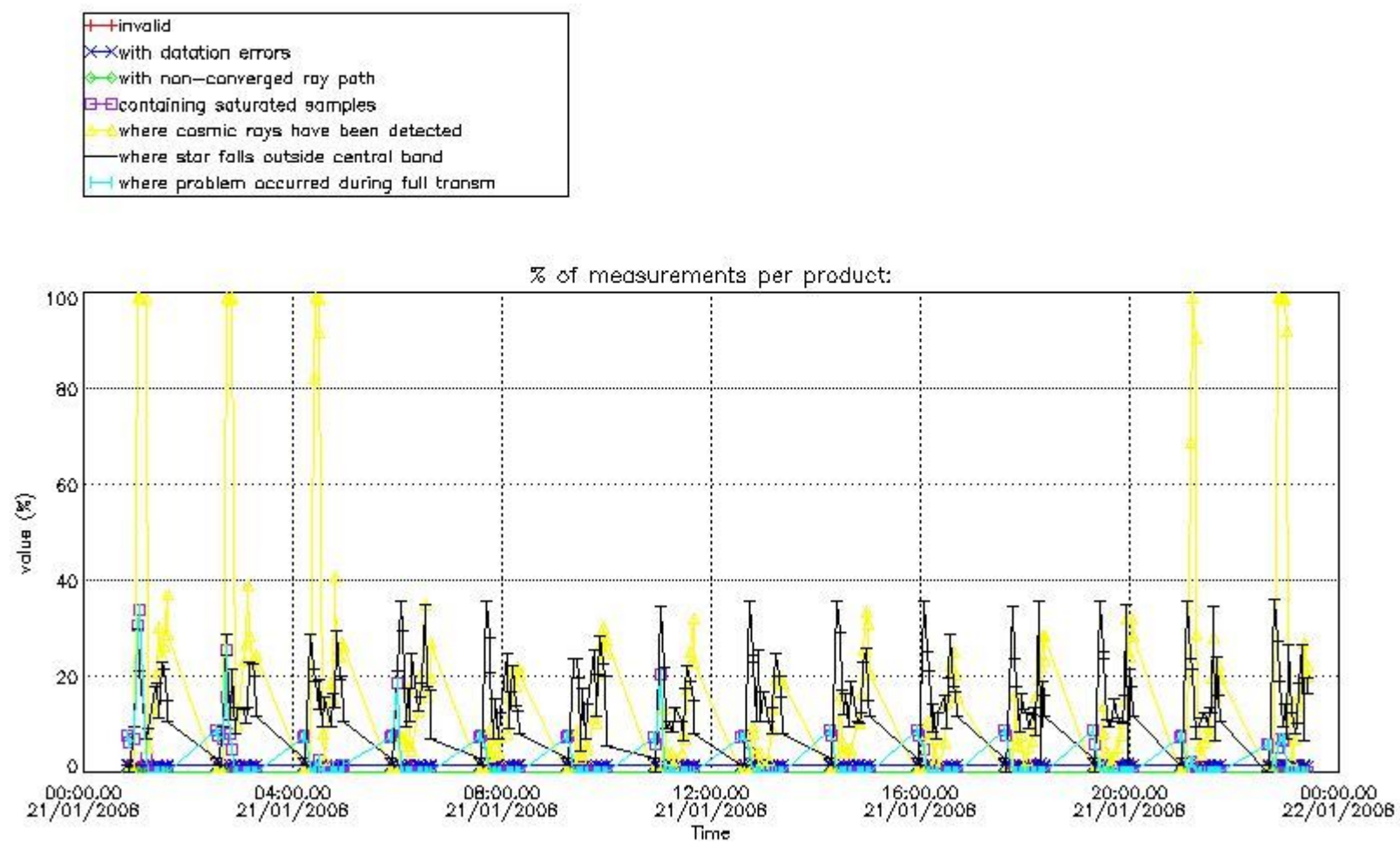


4. Level 1 quality information per product

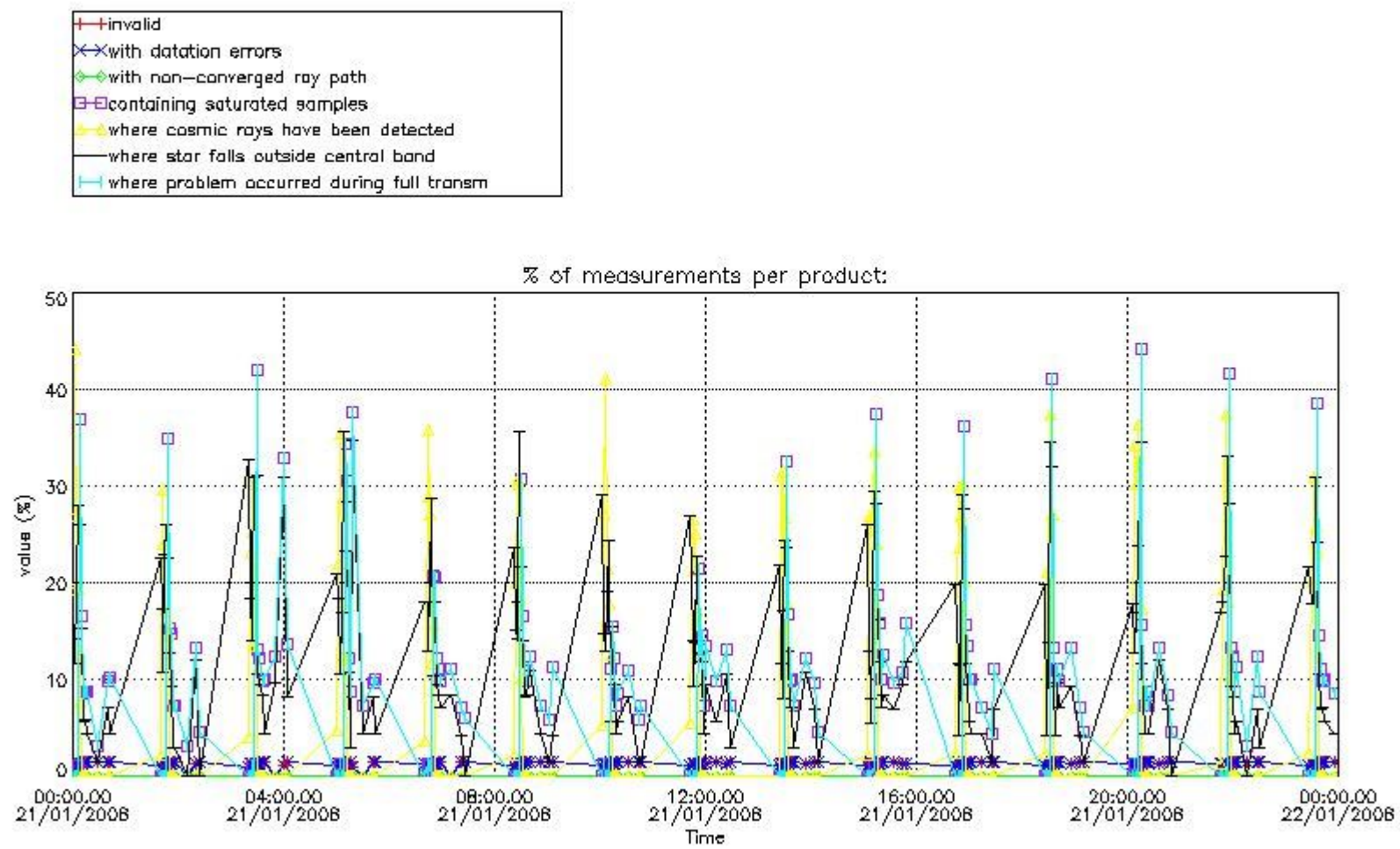
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

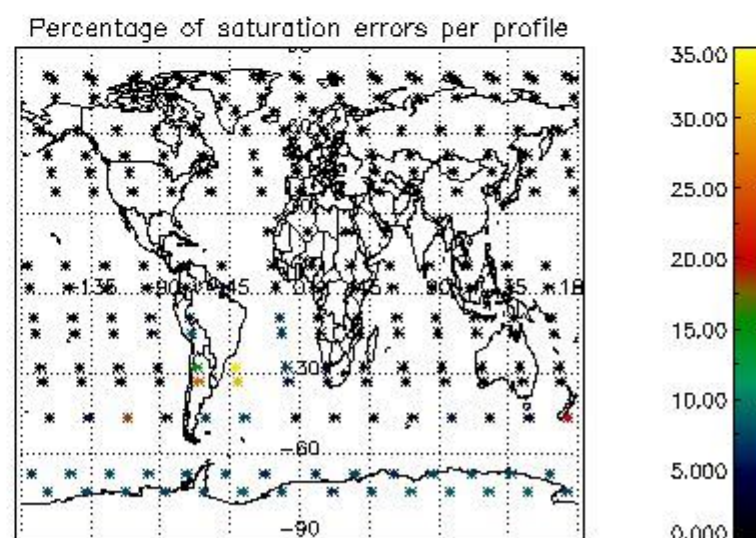
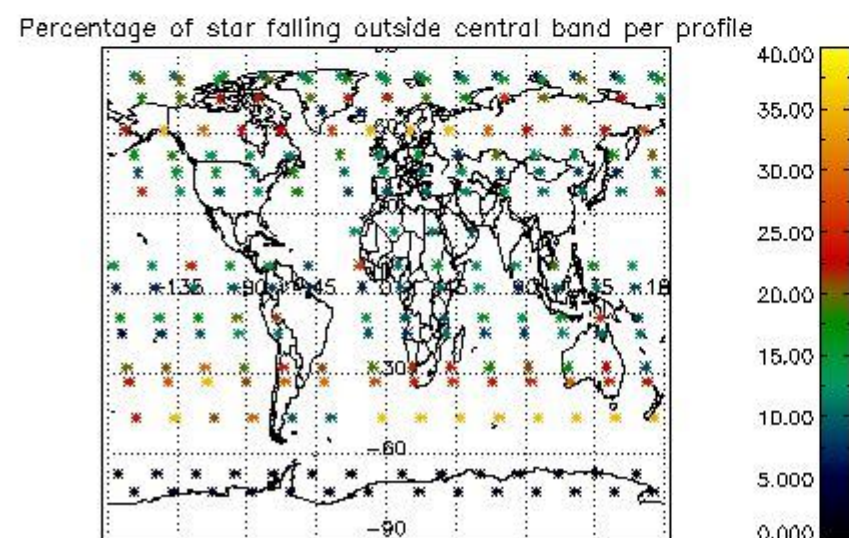
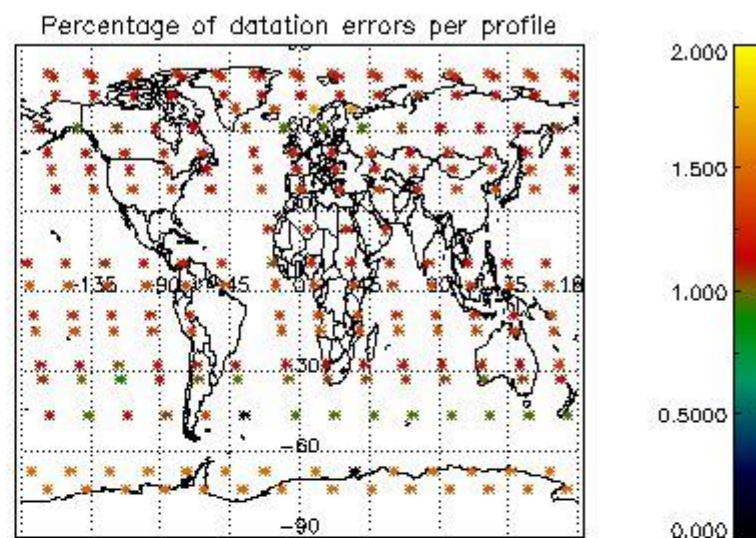
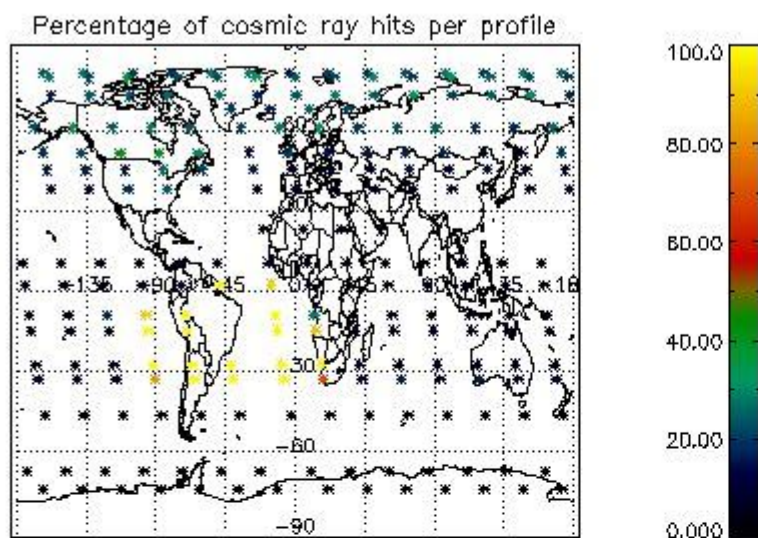


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

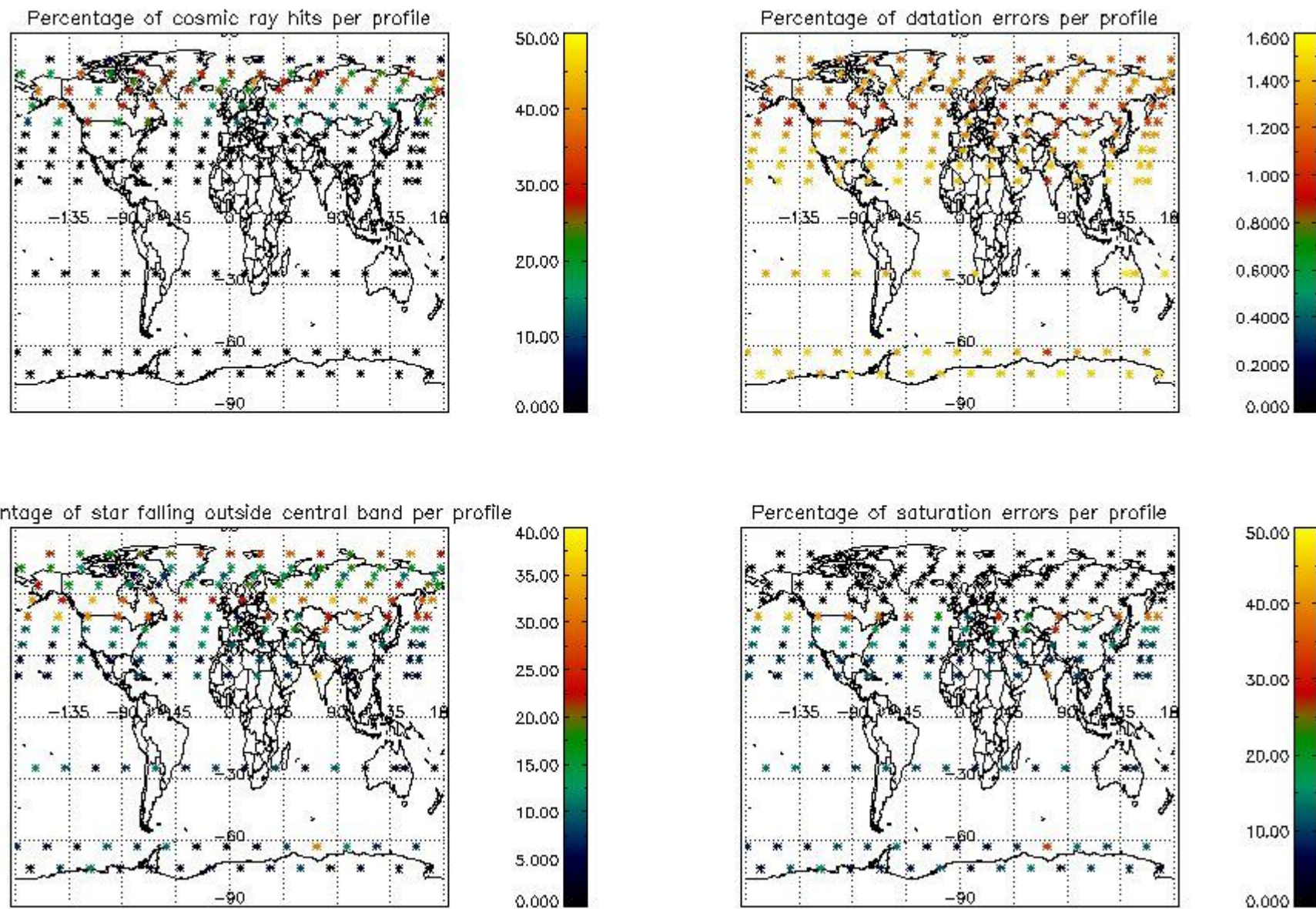


4.2 Plot quality information per product coming from level 1b processing (world map)

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



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

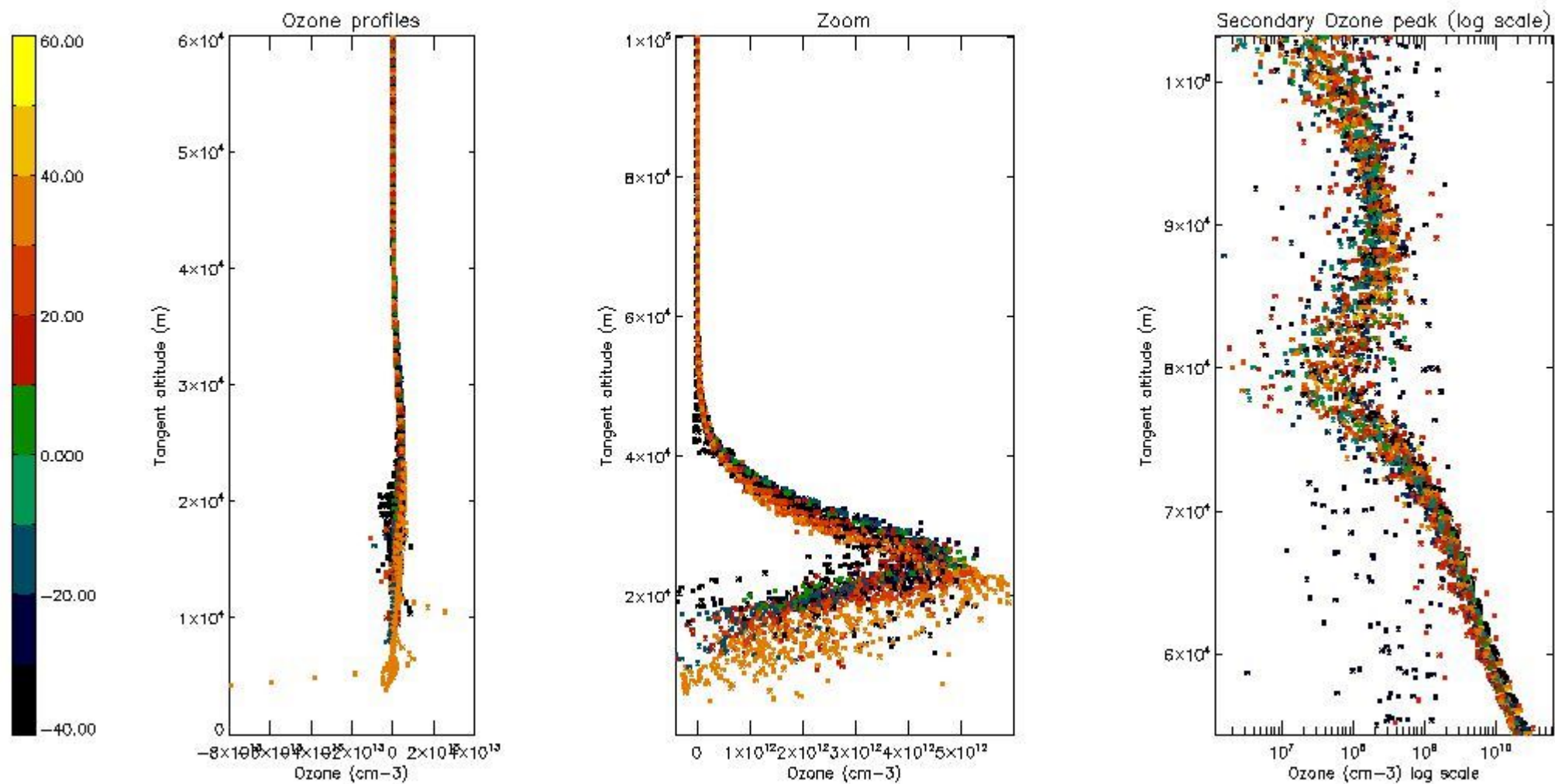
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	16

STD < 10	12
STD < 5	8

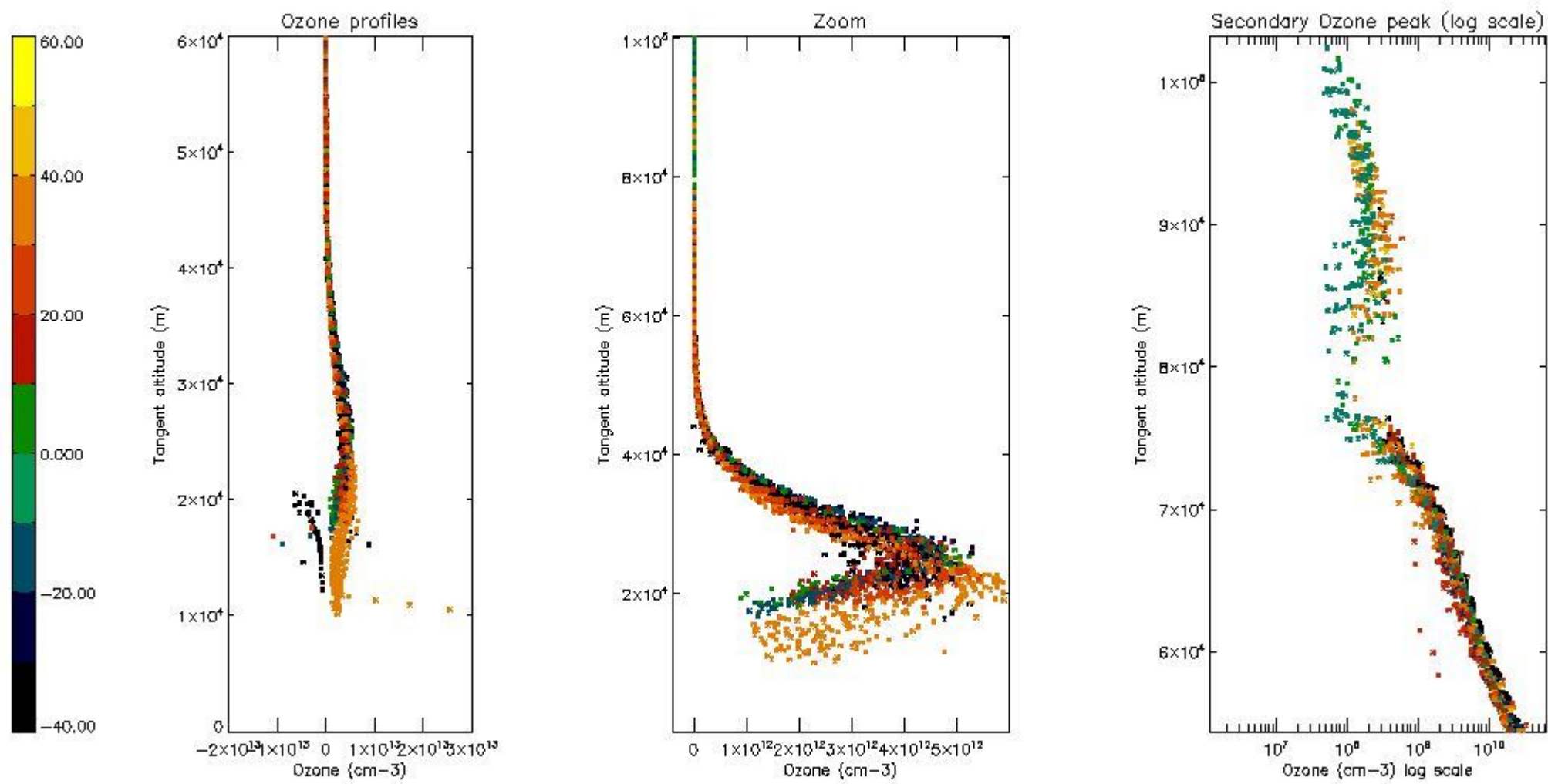
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



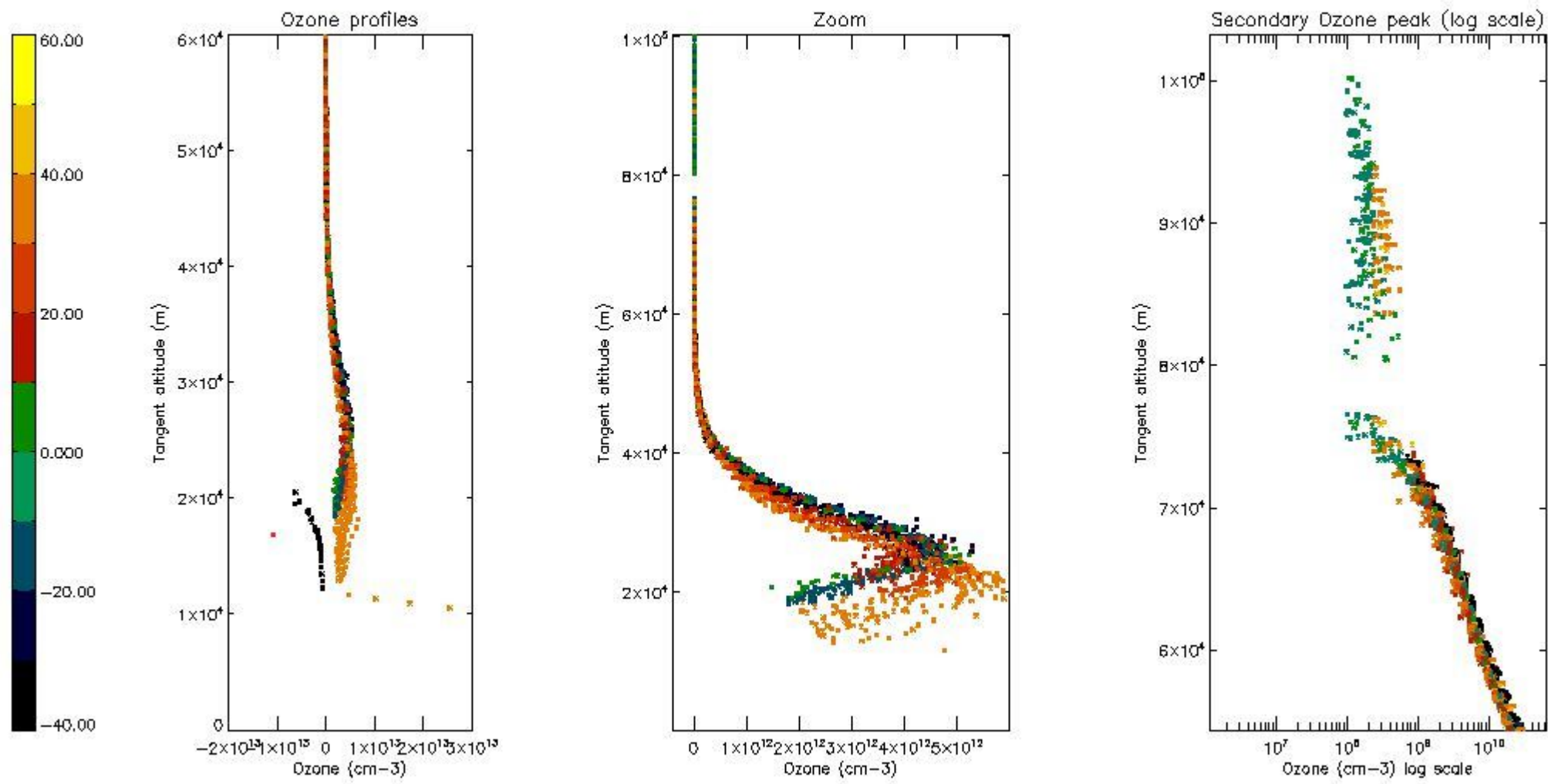
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



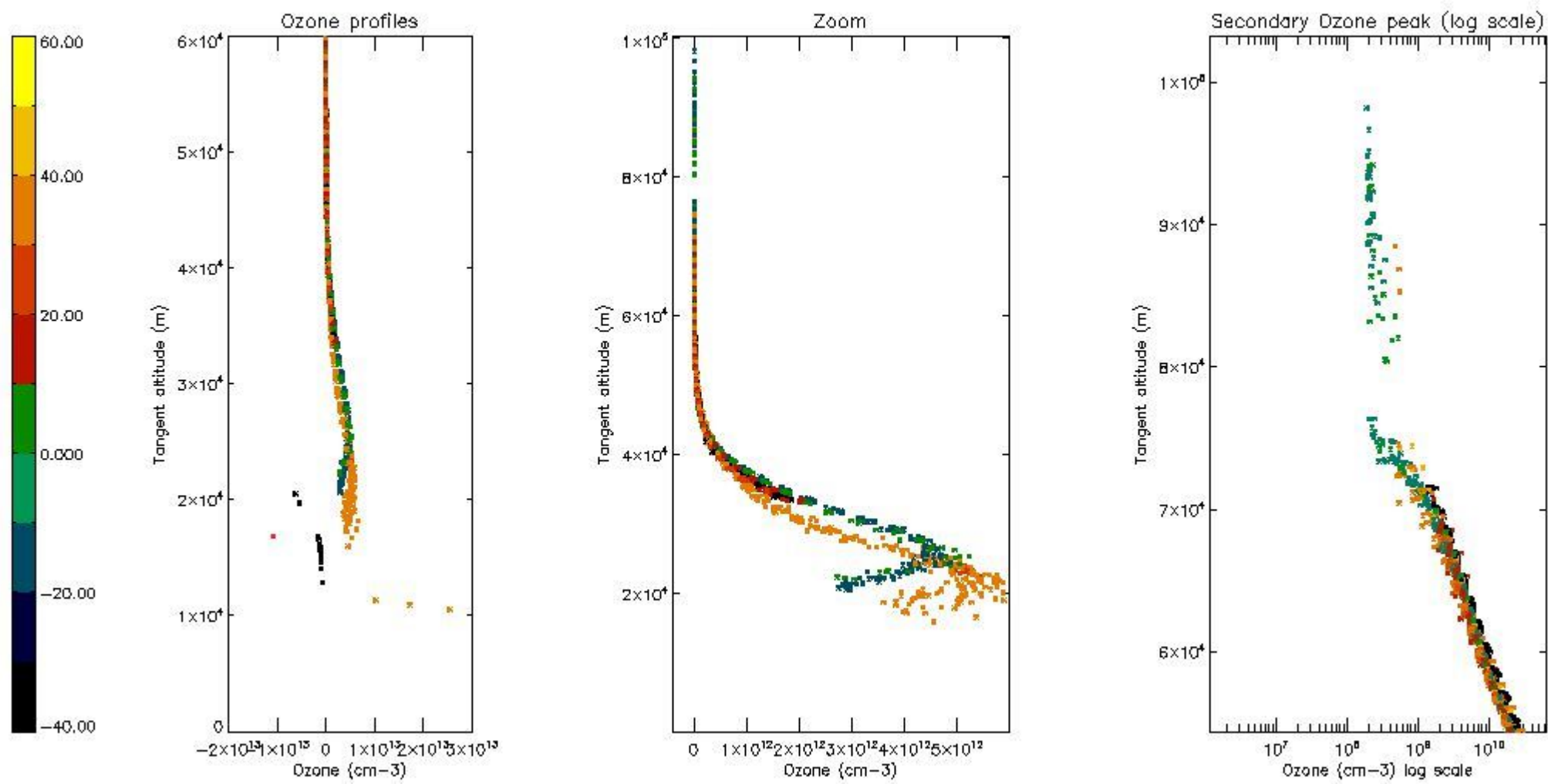
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



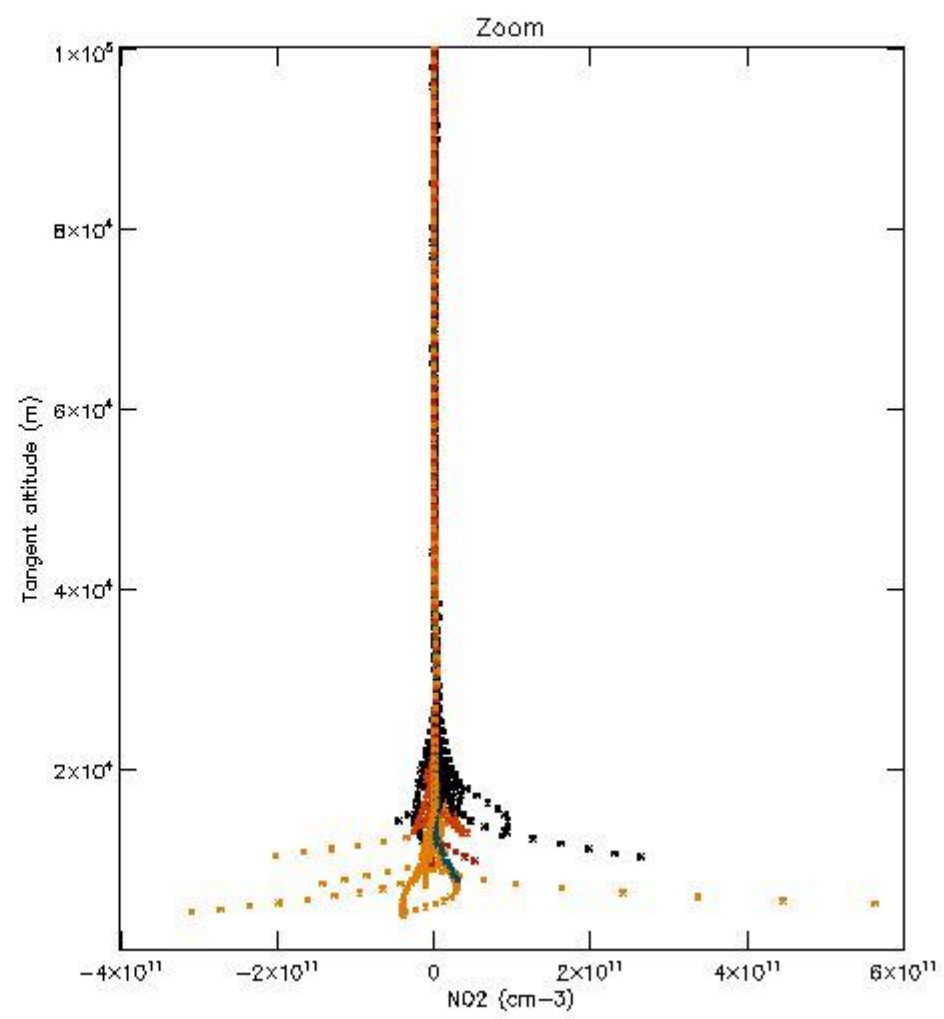
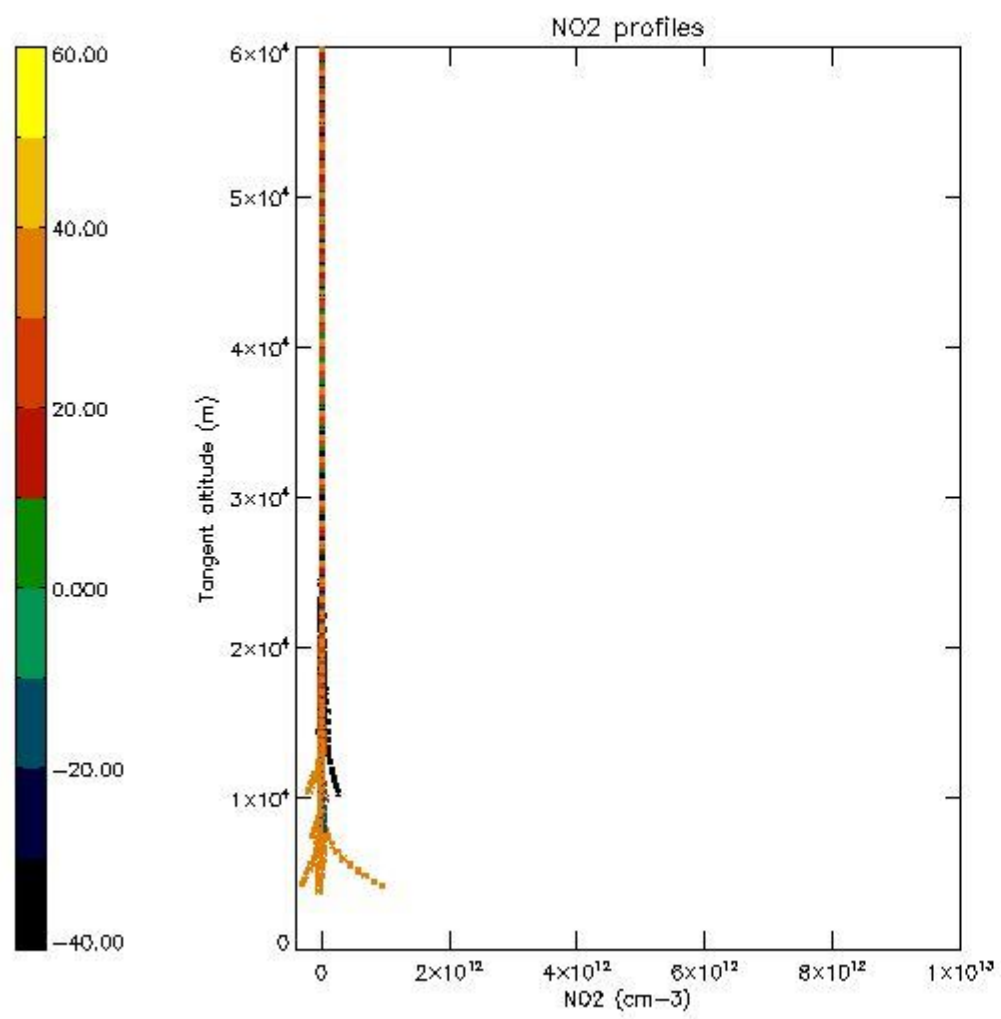
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



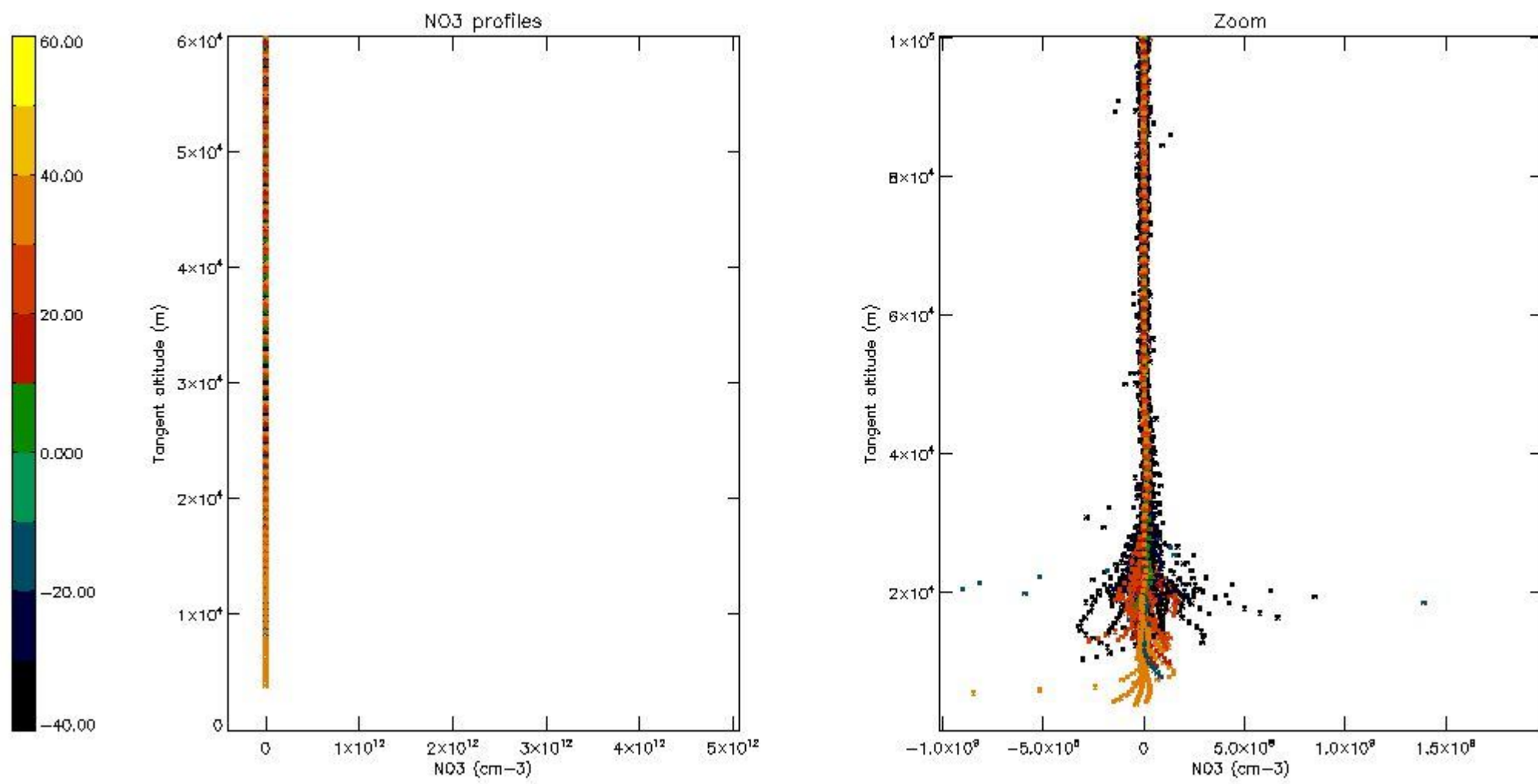
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



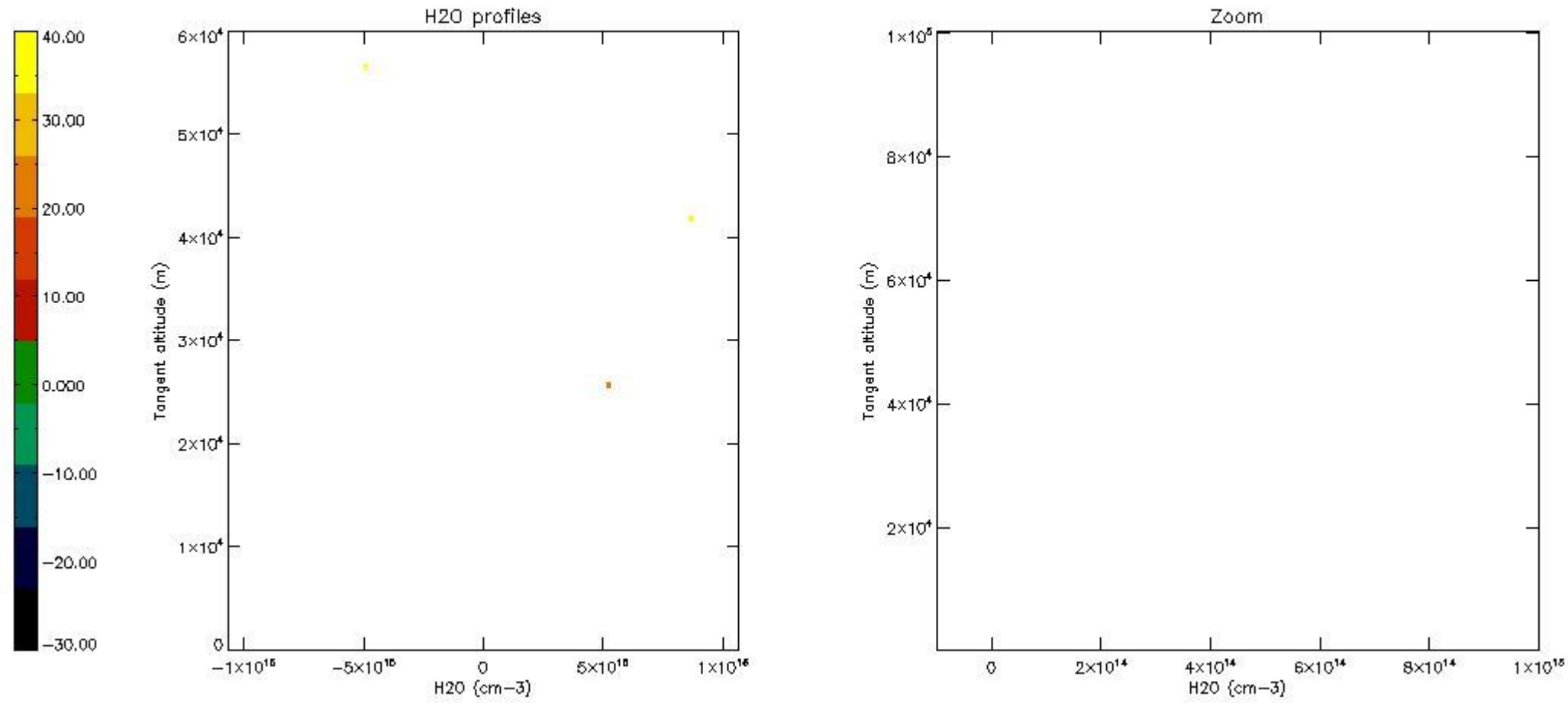
5.7 Plot NO3 profiles for all STD (dark without errors)

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	21-JAN-2008 00:01:00
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-JAN-2008 00:01:00
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-JAN-2008 00:01:00

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[4.2 Plot of level 1 quality information per product \(world map\)](#)

[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

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[5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

[5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

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

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

This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	25APR2013 09:06:49
Data source version	GOMOS/6.01
Start time of products	21-01-2008 (21JAN2008 00:00:00)
Stop time of products	22-01-2008 (22JAN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	418
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

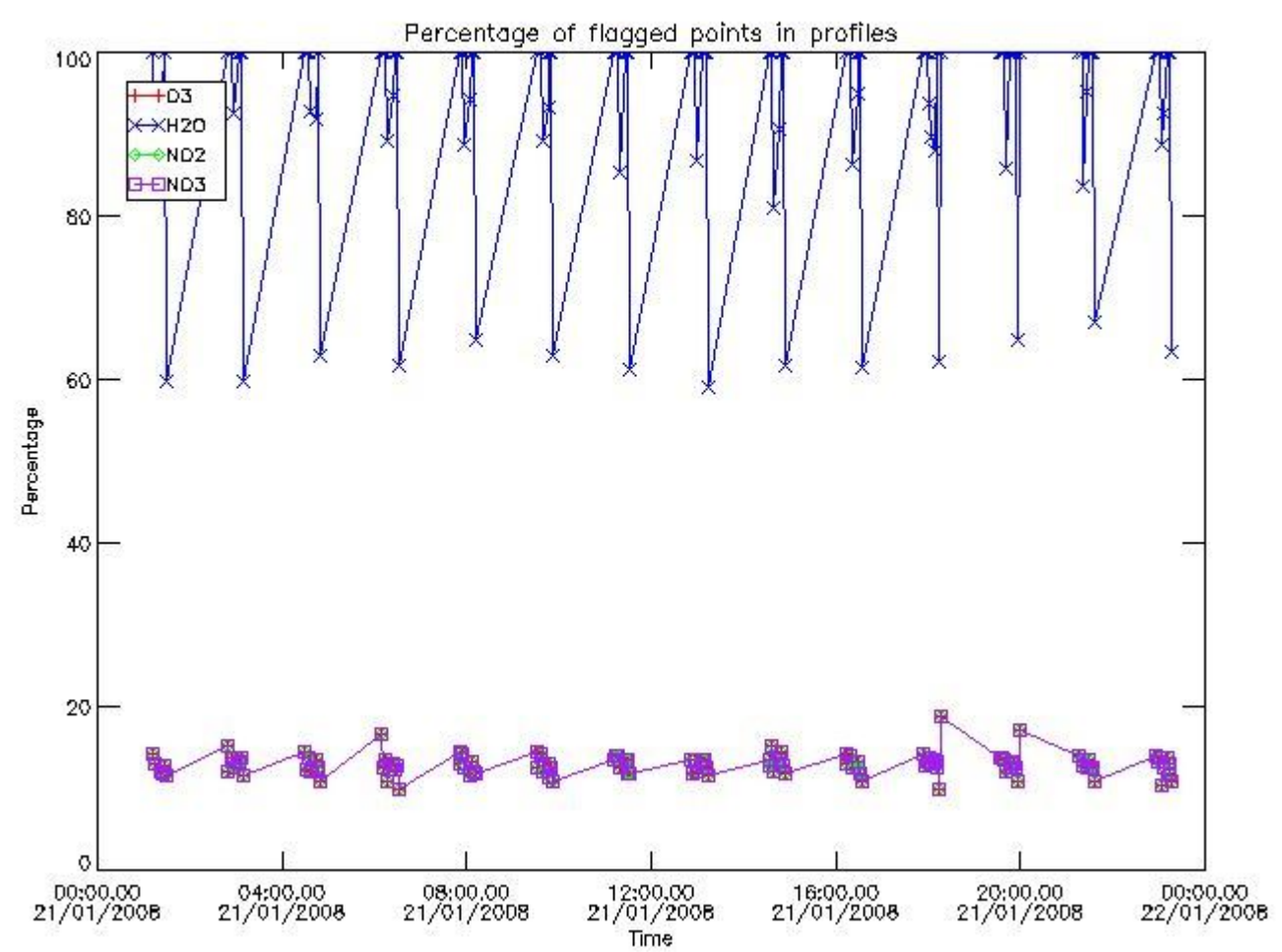
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080121_000100_000000392065_00188_30803_9622.N1	21-JAN-2008 00:01:00	Straylight	39.000	56	53Kap Ori	2.0650	30000.	78	30803	No
2	GOM_NL__2PRFIN20080121_000212_000000392065_00188_30803_9623.N1	21-JAN-2008 00:02:12	Twilight	38.500	125	44lot Ori	2.7700	30000.	77	30803	No
3	GOM_NL__2PRFIN20080121_000329_000000432065_00188_30803_9624.N1	21-JAN-2008 00:03:29	Twilight	42.500	30	46Eps Ori	1.6940	30000.	85	30803	No
4	GOM_NL__2PRFIN20080121_000538_000000472065_00188_30803_9625.N1	21-JAN-2008 00:05:38	Twilight	46.500	14	58Alp Ori	0.87000	3000.0	93	30803	No
5	GOM_NL__2PRFIN20080121_000756_000000462065_00188_30803_9626.N1	21-JAN-2008 00:07:56	Bright	46.000	44	24Gam Gem	1.9280	11000.	92	30803	No
6	GOM_NL__2PRFIN20080121_000940_000000402065_00188_30803_9627.N1	21-JAN-2008 00:09:40	Bright	39.500	151	13Mu Gem	2.8900	3000.0	79	30803	No
7	GOM_NL__2PRFIN20080121_001147_000000352065_00188_30803_9628.N1	21-JAN-2008 00:11:47	Bright	35.000	28	12Bet Tau	1.6500	15200.	70	30803	No
8	GOM_NL__2PRFIN20080121_001352_000000352065_00188_30803_9629.N1	21-JAN-2008 00:13:52	Bright	34.500	107	37The Aur	2.6490	11000.	69	30803	No
9	GOM_NL__2PRFIN20080121_001601_000000352065_00188_30803_9630.N1	21-JAN-2008 00:16:01	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	30803	No
10	GOM_NL__2PRFIN20080121_002835_000000332065_00188_30803_9631.N1	21-JAN-2008 00:28:35	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	30803	No
11	GOM_NL__2PRFIN20080121_003931_000000362065_00188_30803_9632.N1	21-JAN-2008 00:39:31	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	30803	No
12	GOM_NL__2PRFIN20080121_004247_000000352065_00188_30803_9633.N1	21-JAN-2008 00:42:47	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	30803	No
13	GOM_NL__2PRFIN20080121_005045_000000342065_00188_30803_9634.N1	21-JAN-2008 00:50:45	Bright	33.500	59	55Alp Oph	2.0800	8900.0	67	30803	No
14	GOM_NL__2PRFIN20080121_005252_000000332065_00188_30803_9635.N1	21-JAN-2008 00:52:52	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	30803	No
15	GOM_NL__2PRFIN20080121_005857_000000372065_00188_30803_9636.N1	21-JAN-2008 00:58:57	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	30803	No
16	GOM_NL__2PRFIN20080121_010247_000000512065_00188_30803_9637.N1	21-JAN-2008 01:02:47	Twilight	50.500	16	21Alp Sco	1.0200	3000.0	101	30803	No
17	GOM_NL__2PRFIN20080121_010420_000000432065_00188_30803_9638.N1	21-JAN-2008 01:04:20	Twilight	43.000	75	26Eps Sco	2.2910	4250.0	86	30803	No
18	GOM_NL__2PRFIN20080121_011242_000000362065_00189_30804_9693.N1	21-JAN-2008 01:12:42	Dark	36.000	134	Bet TrA	2.8100	6600.0	72	30804	No
19	GOM_NL__2PRFIN20080121_011458_000000392065_00189_30804_9694.N1	21-JAN-2008 01:14:58	Dark	39.000	10	Bet Cen	0.61000	28000.	78	30804	No
20	GOM_NL__2PRFIN20080121_012244_000000422065_00189_30804_9695.N1	21-JAN-2008 01:22:44	Dark	42.000	29	Bet Car	1.6720	10200.	84	30804	No
21	GOM_NL__2PRFIN20080121_012448_000000442065_00189_30804_9696.N1	21-JAN-2008 01:24:48	Dark	43.500	71	lot Car	2.2460	7700.0	87	30804	No
22	GOM_NL__2PRFIN20080121_012639_000000402065_00189_30804_9697.N1	21-JAN-2008 01:26:39	Dark	40.000	46	Del Vel	1.9540	10600.	80	30804	No
23	GOM_NL__2PRFIN20080121_012920_000000442065_00189_30804_9698.N1	21-JAN-2008 01:29:20	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	30804	No
24	GOM_NL__2PRFIN20080121_013259_000000442065_00189_30804_9699.N1	21-JAN-2008 01:32:59	Straylight	44.000	117	Pi Pup	2.7060	3800.0	88	30804	No
25	GOM_NL__2PRFIN20080121_013529_000000412065_00189_30804_9700.N1	21-JAN-2008 01:35:29	Straylight	40.500	23	21Eps CMa	1.5020	26000.	81	30804	No
26	GOM_NL__2PRFIN20080121_013653_000000392065_00189_30804_9701.N1	21-JAN-2008 01:36:53	Straylight	38.500	179	24Omi2CMa	3.0320	24000.	77	30804	No
27	GOM_NL__2PRFIN20080121_013904_000000452065_00189_30804_9702.N1	21-JAN-2008 01:39:04	Straylight	44.500	1	9Alp CMa	-1.4400	11000.	89	30804	No
28	GOM_NL__2PRFIN20080121_014136_000000412065_00189_30804_9703.N1	21-JAN-2008 01:41:36	Straylight	40.500	56	53Kap Ori	2.0650	30000.	81	30804	No
29	GOM_NL__2PRFIN20080121_014248_000000382065_00189_30804_9704.N1	21-JAN-2008 01:42:48	Twilight	37.500	125	44lot Ori	2.7700	30000.	75	30804	No
30	GOM_NL__2PRFIN20080121_014405_000000442065_00189_30804_9705.N1	21-JAN-2008 01:44:05	Twilight	43.500	30	46Eps Ori	1.6940	30000.	87	30804	No
31	GOM_NL__2PRFIN20080121_014614_000000462065_00189_30804_9706.N1	21-JAN-2008 01:46:14	Twilight	46.000	14	58Alp Ori	0.87000	3000.0	92	30804	No
32	GOM_NL__2PRFIN20080121_014831_000000452065_00189_30804_9707.N1	21-JAN-2008 01:48:31	Bright	44.500	44	24Gam Gem	1.9280	11000.	89	30804	No
33	GOM_NL__2PRFIN20080121_015016_000000402065_00189_30804_9708.N1	21-JAN-2008 01:50:16	Bright	39.500	151	13Mu Gem	2.8900	3000.0	79	30804	No
34	GOM_NL__2PRFIN20080121_015223_000000382065_00189_30804_9709.N1	21-JAN-2008 01:52:23	Bright	37.500	28	12Bet Tau	1.6500	15200.	75	30804	No
35	GOM_NL__2PRFIN20080121_015428_000000352065_00189_30804_9710.N1	21-JAN-2008 01:54:28	Bright	34.500	107	37The Aur	2.6490	11000.	69	30804	No
36	GOM_NL__2PRFIN20080121_015637_000000342065_00189_30804_9711.N1	21-JAN-2008 01:56:37	Bright	34.000	42	34Bet Aur	1.9000	10200.	68	30804	No
37	GOM_NL__2PRFIN20080121_020911_000000332065_00189_30804_9712.N1	21-JAN-2008 02:09:11	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	30804	No
38	GOM_NL__2PRFIN20080121_022007_000000382065_00189_30804_9713.N1	21-JAN-2008 02:20:07	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	30804	No
39	GOM_NL__2PRFIN20080121_022323_000000332065_00189_30804_9714.N1	21-JAN-2008 02:23:23	Bright	32.500	5	3Alp Lyr	0.033000	11000.	65	30804	No
40	GOM_NL__2PRFIN20080121_023122_000000342065_00189_30804_9715.N1	21-JAN-2008 02:31:22	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	30804	No
41	GOM_NL__2PRFIN20080121_023328_000000342065_00189_30804_9716.N1	21-JAN-2008 02:33:28	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	30804	No
42	GOM_NL__2PRFIN20080121_023933_000000372065_00189_30804_9717.N1	21-JAN-2008 02:39:33	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	30804	No

397	GOM_NL__2PRFIN20080121_225719_000000392065_00201_30816_9898.N1	21-JAN-2008 22:57:19	Dark	38.500	141	Bet Ara	2.8400	4600.0	77	30816	No
398	GOM_NL__2PRFIN20080121_230033_000000372065_00202_30817_9898.N1	21-JAN-2008 23:00:33	Dark	37.000	134	Bet TrA	2.8100	6600.0	74	30817	No
399	GOM_NL__2PRFIN20080121_230252_000000492065_00202_30817_9899.N1	21-JAN-2008 23:02:52	Dark	49.000	10	Bet Cen	0.61000	28000.	98	30817	No
400	GOM_NL__2PRFIN20080121_230619_000000412065_00202_30817_9900.N1	21-JAN-2008 23:06:19	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	30817	No
401	GOM_NL__2PRFIN20080121_231035_000000372065_00202_30817_9901.N1	21-JAN-2008 23:10:35	Dark	37.000	29	Bet Car	1.6720	10200.	74	30817	No
402	GOM_NL__2PRFIN20080121_231241_000000392065_00202_30817_9902.N1	21-JAN-2008 23:12:41	Dark	39.000	71	lot Car	2.2460	7700.0	78	30817	No
403	GOM_NL__2PRFIN20080121_231430_000000442065_00202_30817_9903.N1	21-JAN-2008 23:14:30	Dark	43.500	46	Del Vel	1.9540	10600.	87	30817	No
404	GOM_NL__2PRFIN20080121_231709_000000472065_00202_30817_9904.N1	21-JAN-2008 23:17:09	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	30817	No
405	GOM_NL__2PRFIN20080121_231916_000000382065_00202_30817_9905.N1	21-JAN-2008 23:19:16	Straylight	38.000	70	Zet Pup	2.2460	39000.	76	30817	No
406	GOM_NL__2PRFIN20080121_232049_000000432065_00202_30817_9906.N1	21-JAN-2008 23:20:49	Straylight	43.000	117	Pi Pup	2.7060	3800.0	86	30817	No
407	GOM_NL__2PRFIN20080121_232319_000000432065_00202_30817_9907.N1	21-JAN-2008 23:23:19	Straylight	43.000	23	21Eps CMa	1.5020	26000.	86	30817	No
408	GOM_NL__2PRFIN20080121_232442_000000402065_00202_30817_9908.N1	21-JAN-2008 23:24:42	Straylight	40.000	179	24Omi2CMa	3.0320	24000.	80	30817	No
409	GOM_NL__2PRFIN20080121_232653_000000442065_00202_30817_9909.N1	21-JAN-2008 23:26:53	Straylight	44.000	1	9Alp CMa	-1.4400	11000.	88	30817	No
410	GOM_NL__2PRFIN20080121_232926_000000422065_00202_30817_9910.N1	21-JAN-2008 23:29:26	Straylight	42.000	56	53Kap Ori	2.0650	30000.	84	30817	No
411	GOM_NL__2PRFIN20080121_233155_000000422065_00202_30817_9911.N1	21-JAN-2008 23:31:55	Twilight_and_stray	42.000	30	46Eps Ori	1.6940	30000.	84	30817	No
412	GOM_NL__2PRFIN20080121_233403_000000492065_00202_30817_9912.N1	21-JAN-2008 23:34:03	Twilight_and_stray	48.500	14	58Alp Ori	0.87000	3000.0	97	30817	No
413	GOM_NL__2PRFIN20080121_233618_000000462065_00202_30817_9913.N1	21-JAN-2008 23:36:18	Bright	45.500	44	24Gam Gem	1.9280	11000.	91	30817	No
414	GOM_NL__2PRFIN20080121_233804_000000382065_00202_30817_9914.N1	21-JAN-2008 23:38:04	Bright	38.000	151	13Mu Gem	2.8900	3000.0	76	30817	No
415	GOM_NL__2PRFIN20080121_234013_000000362065_00202_30817_9915.N1	21-JAN-2008 23:40:13	Bright	36.000	28	12Bet Tau	1.6500	15200.	72	30817	No
416	GOM_NL__2PRFIN20080121_234215_000000362065_00202_30817_9916.N1	21-JAN-2008 23:42:15	Bright	35.500	107	37The Aur	2.6490	11000.	71	30817	No
417	GOM_NL__2PRFIN20080121_234425_000000352065_00202_30817_9917.N1	21-JAN-2008 23:44:25	Bright	35.000	42	34Bet Aur	1.9000	10200.	70	30817	No
418	GOM_NL__2PRFIN20080121_235658_000000352065_00202_30817_9918.N1	21-JAN-2008 23:56:58	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	30817	No

3. Quality information per product

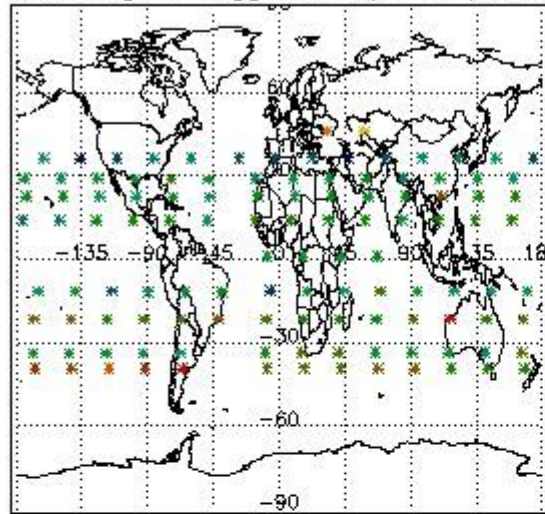
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

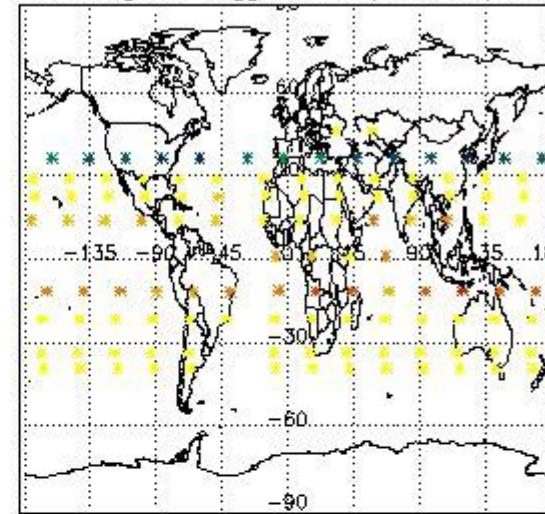


3.2 Plot quality information per product (world map)

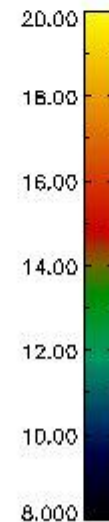
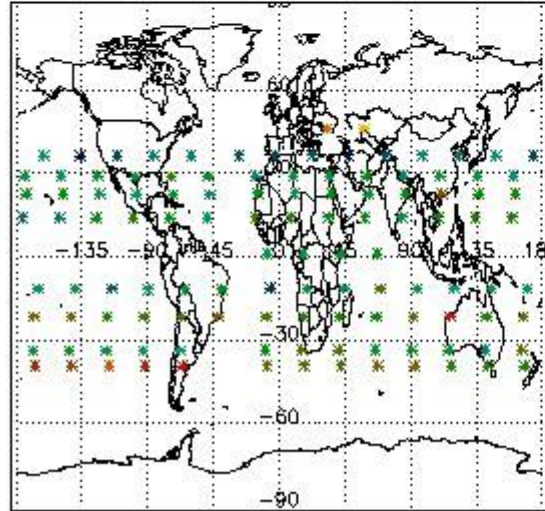
Percentage of flagged data per O3 profile



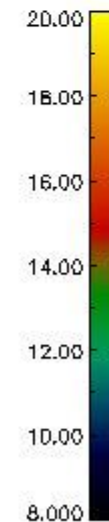
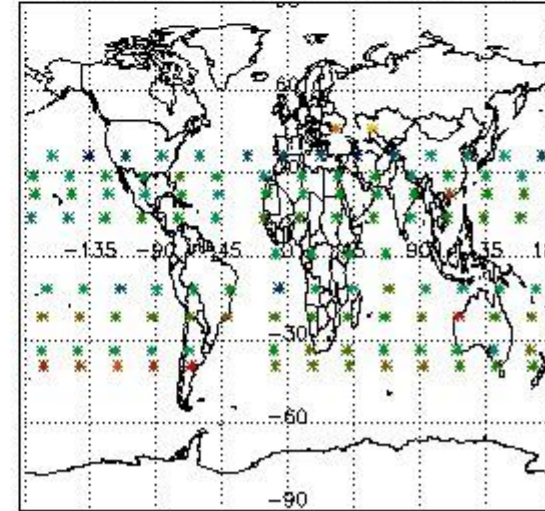
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

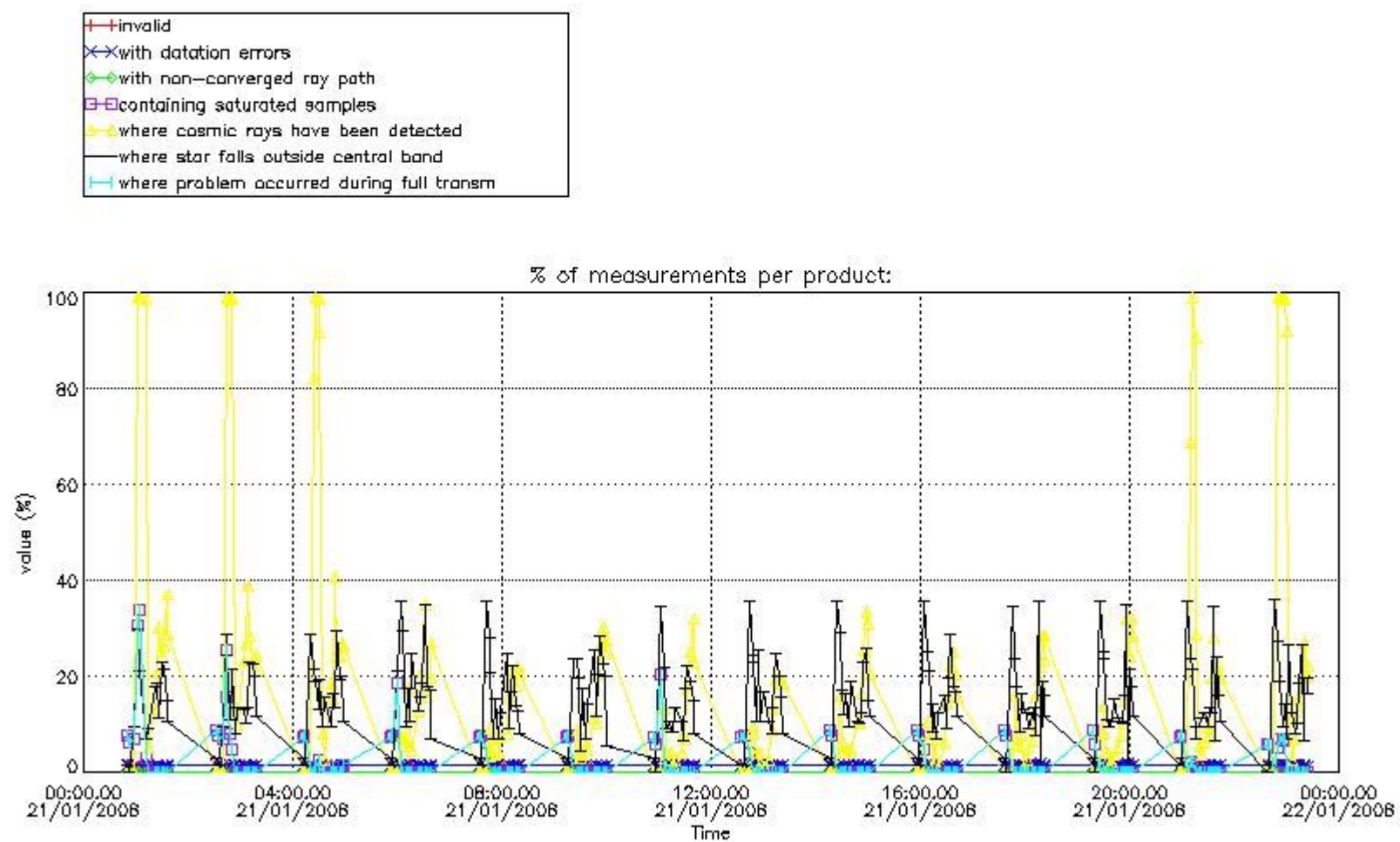


4. Level 1 quality information per product

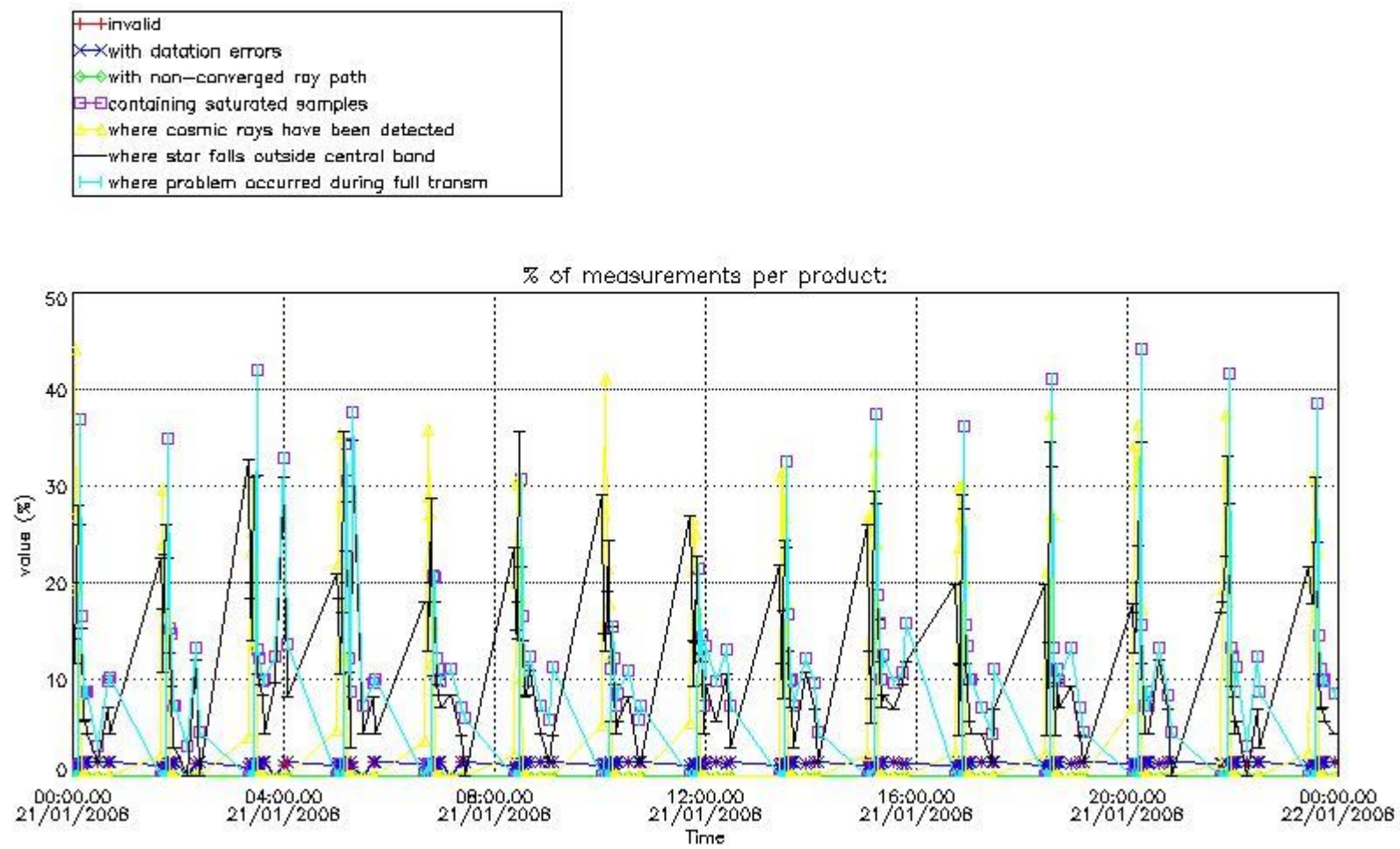
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

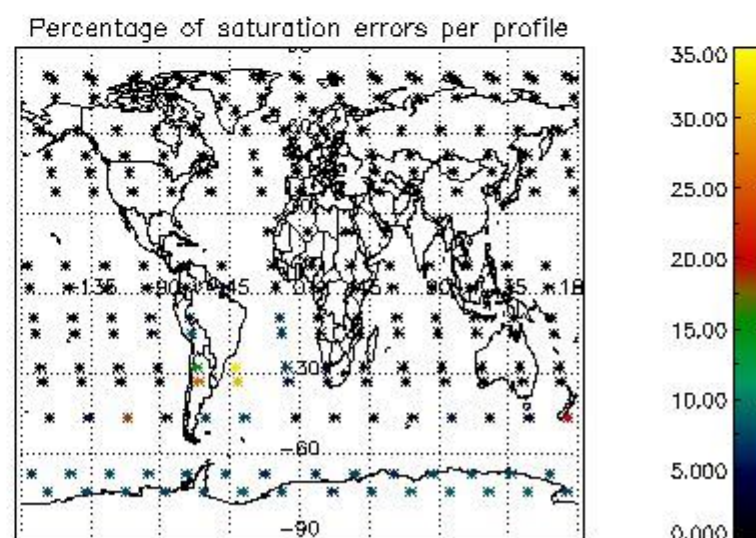
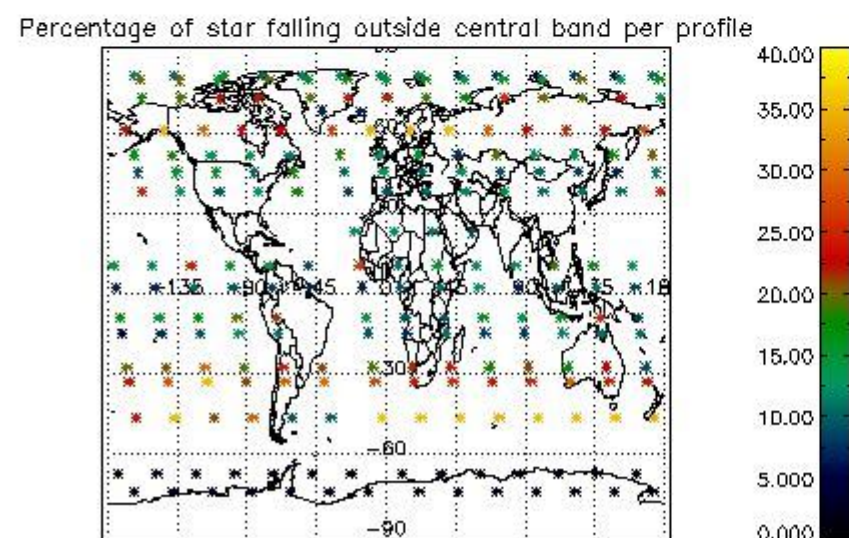
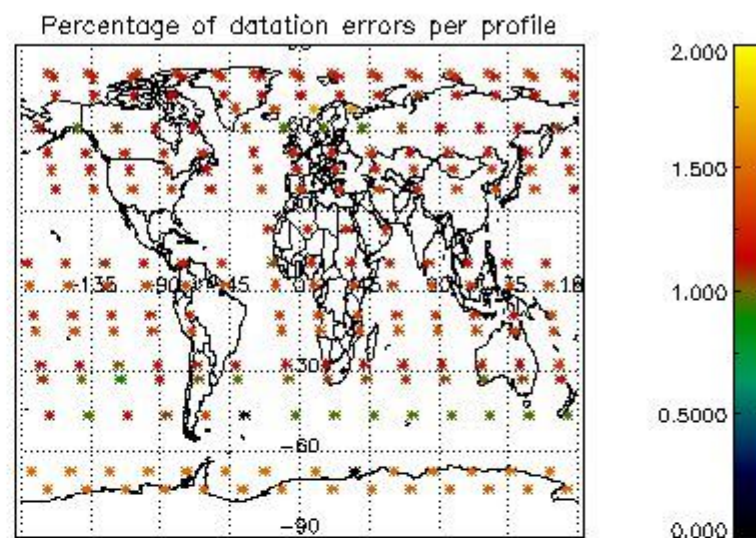
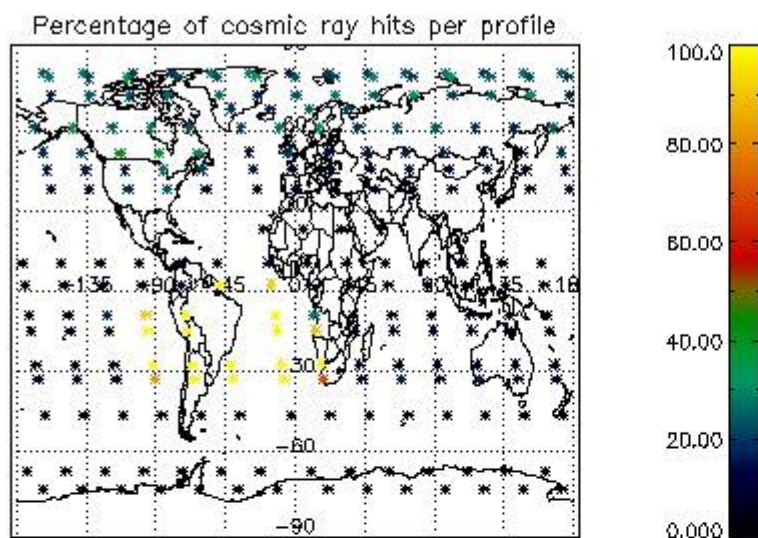


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

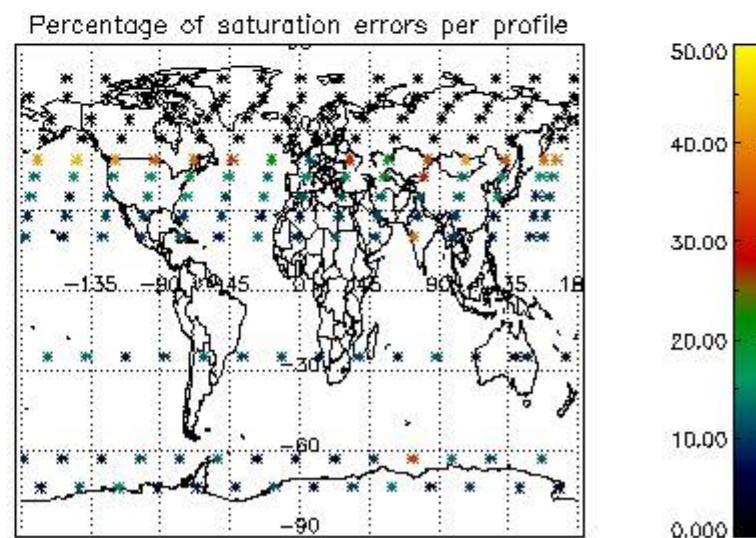
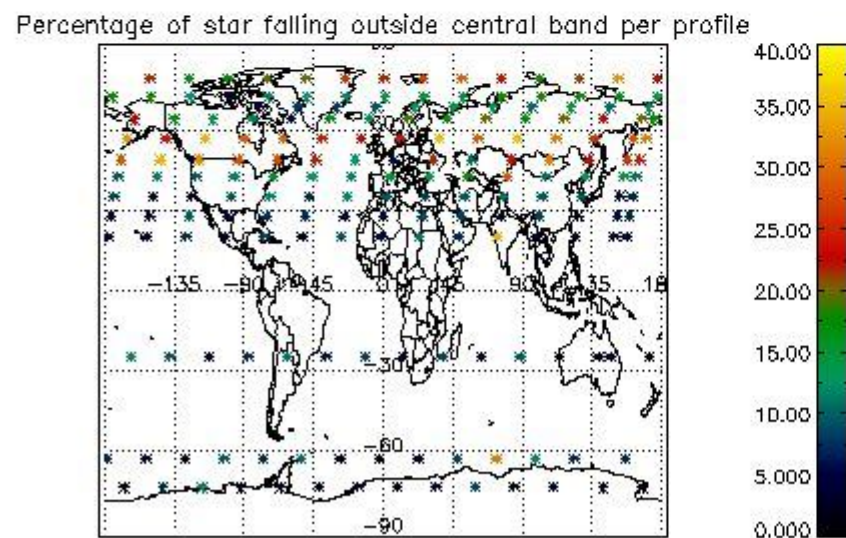
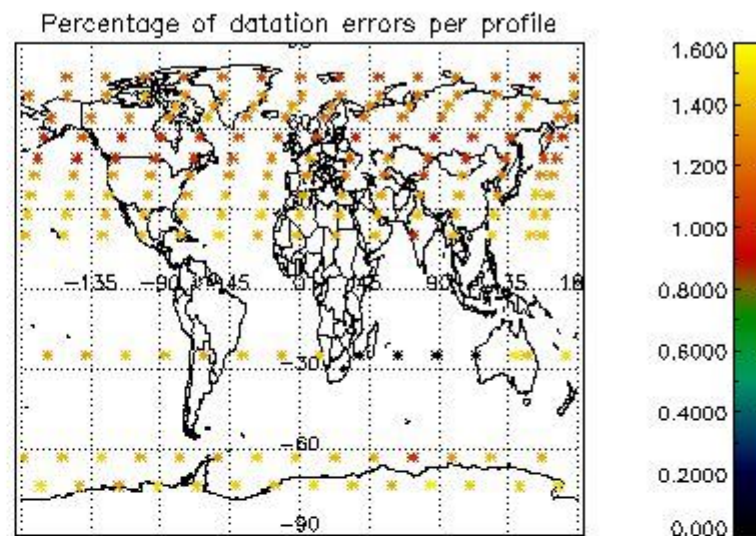
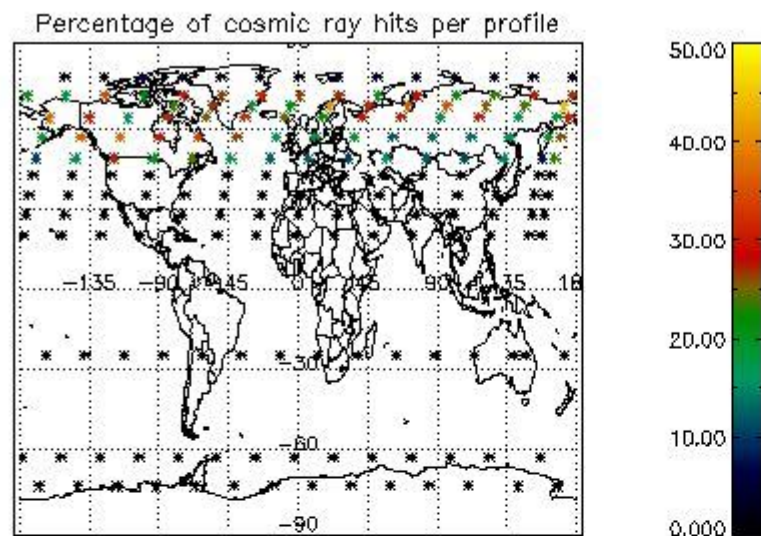


4.2 Plot quality information per product coming from level 1b processing (world map)

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



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

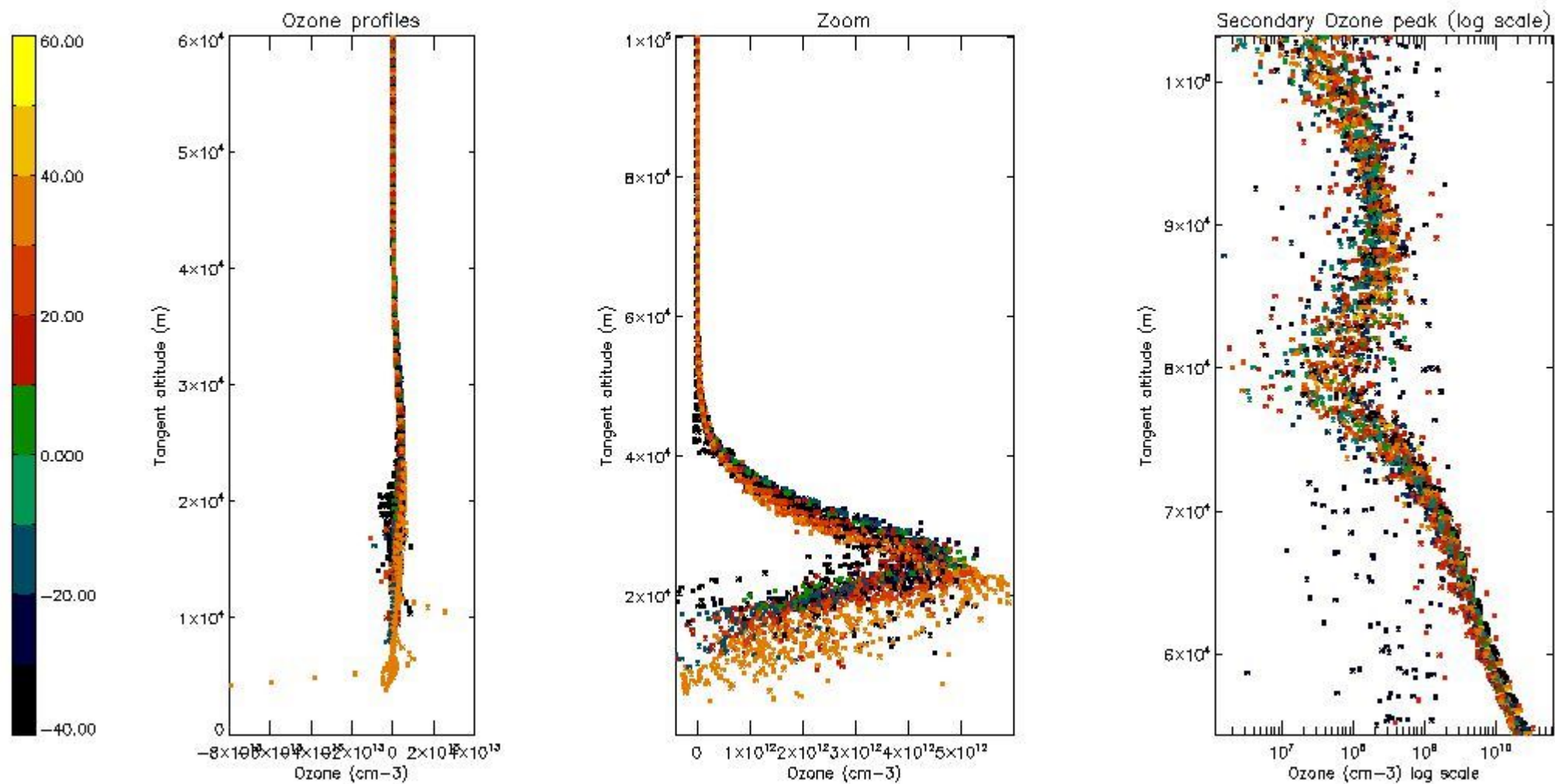
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	16

STD < 10	12
STD < 5	8

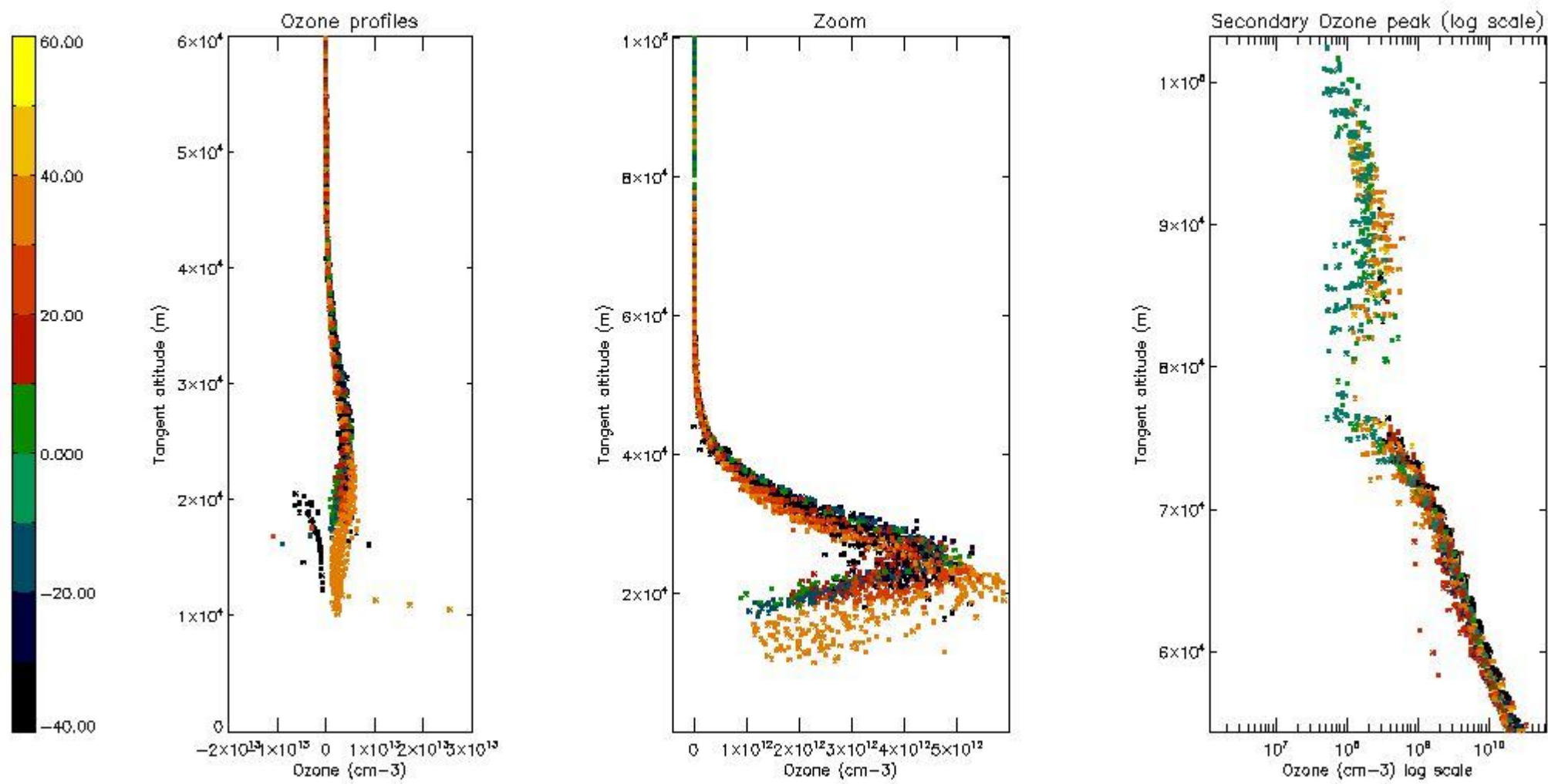
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



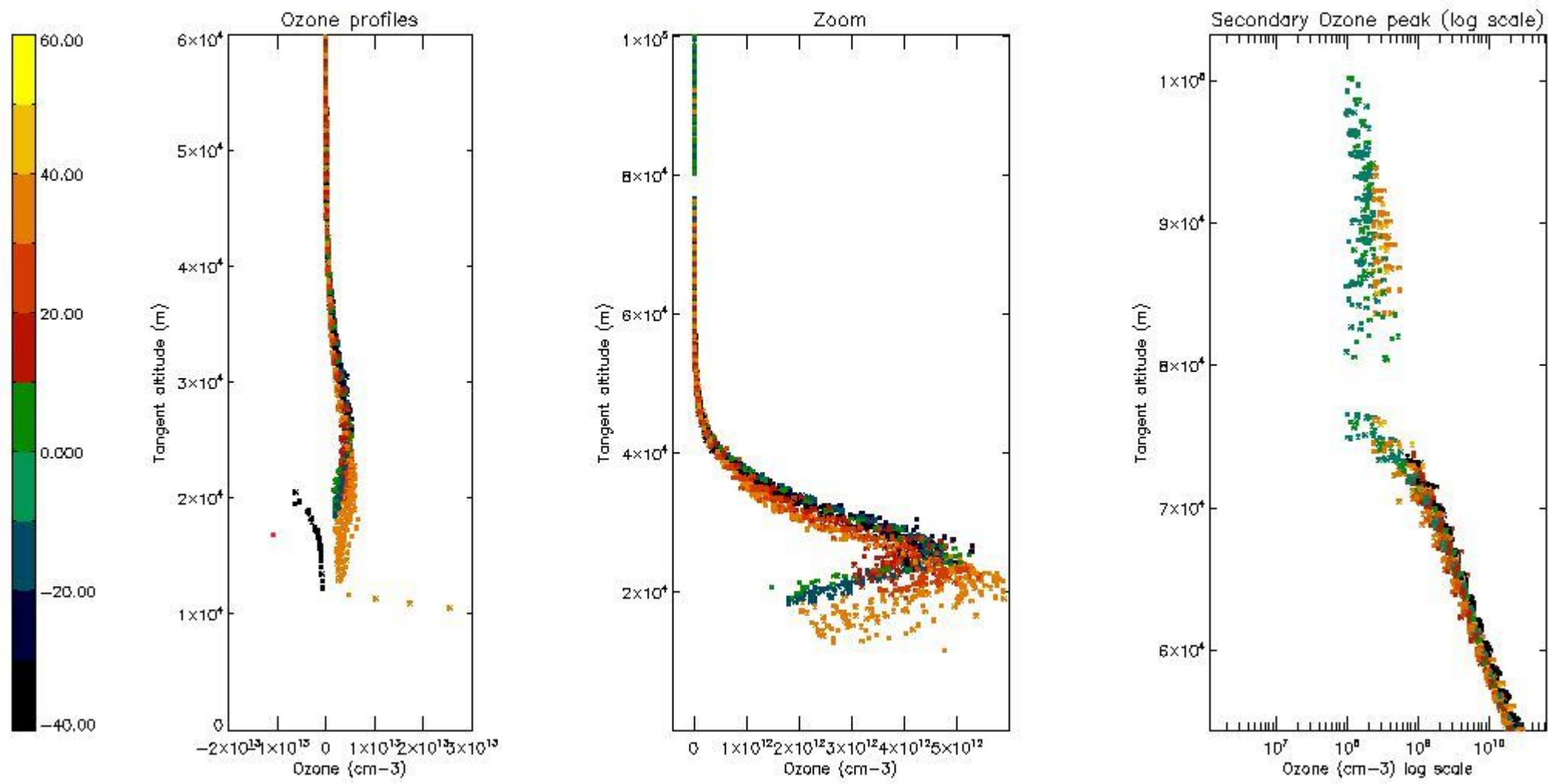
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



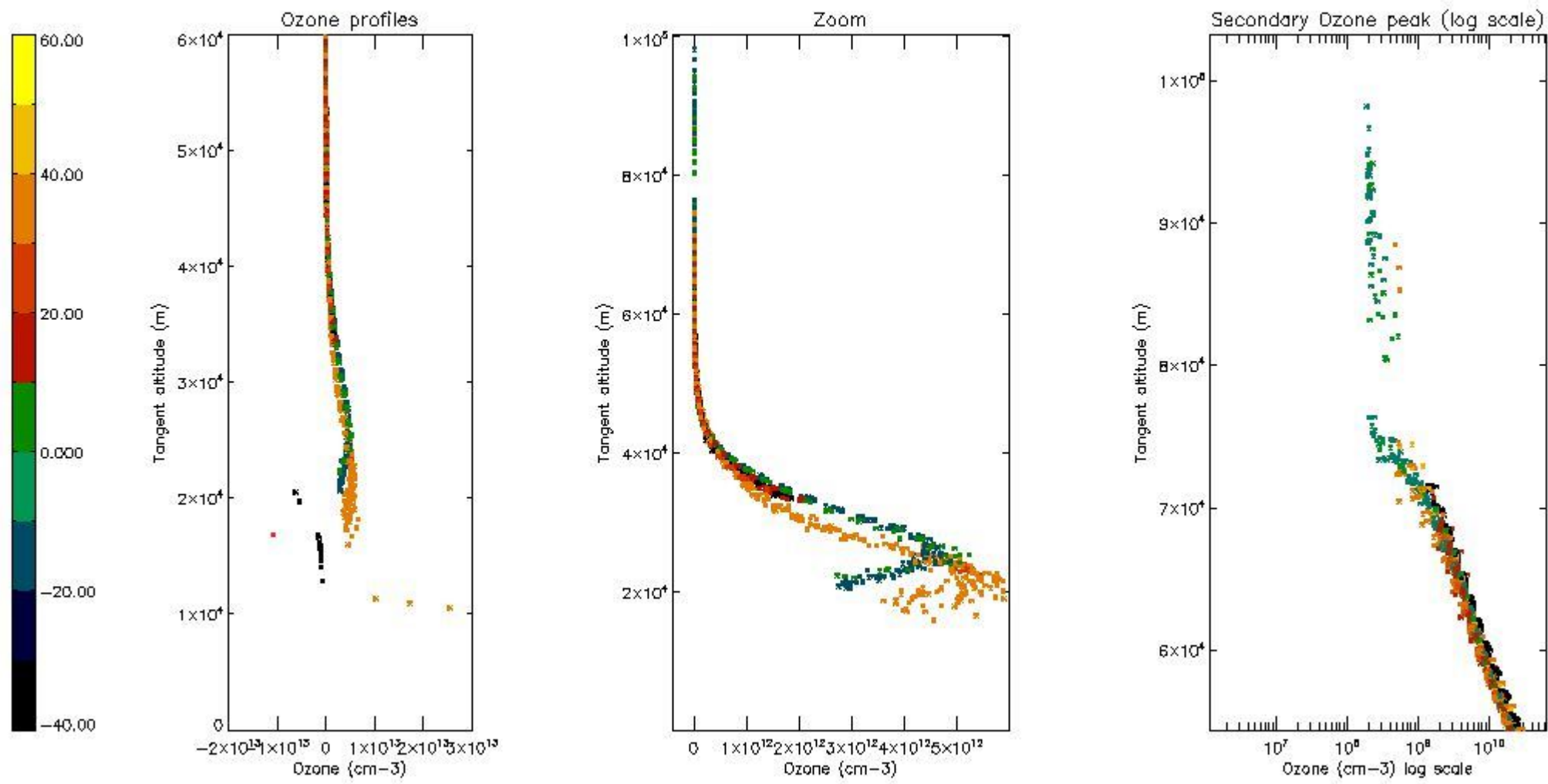
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



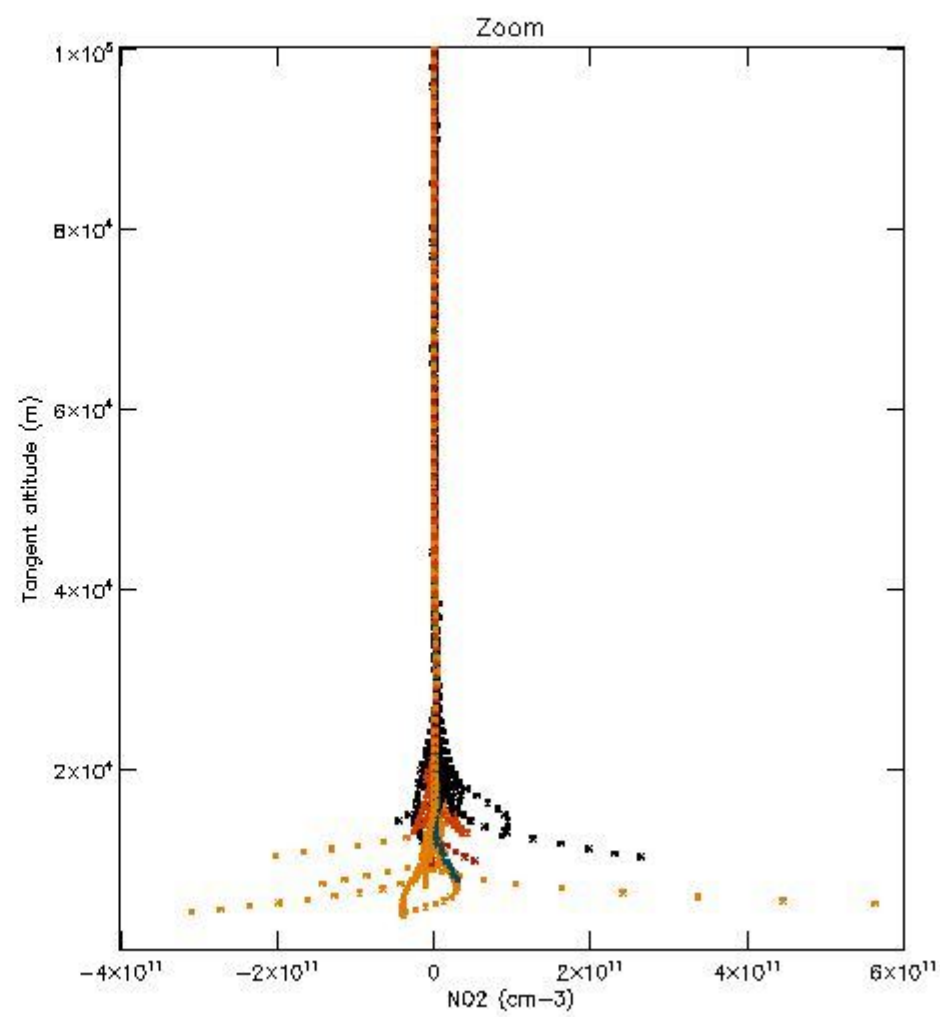
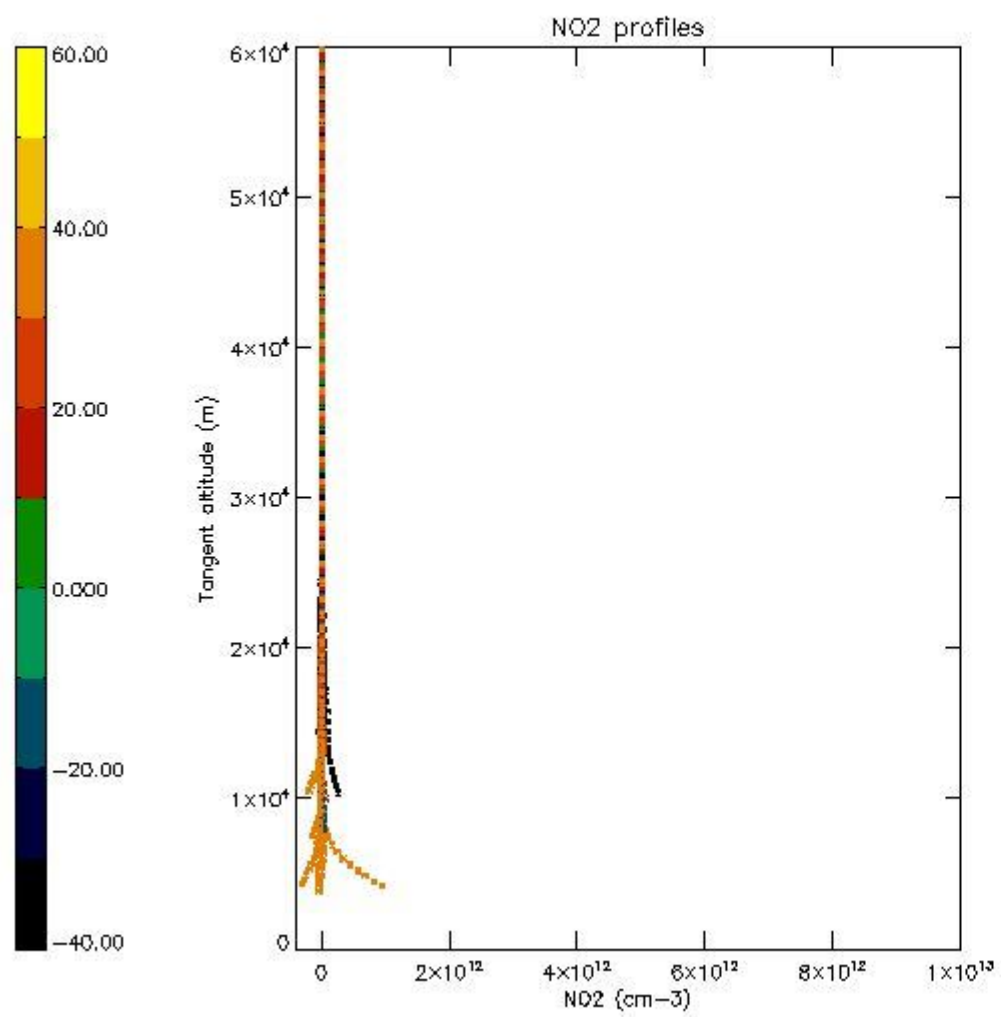
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



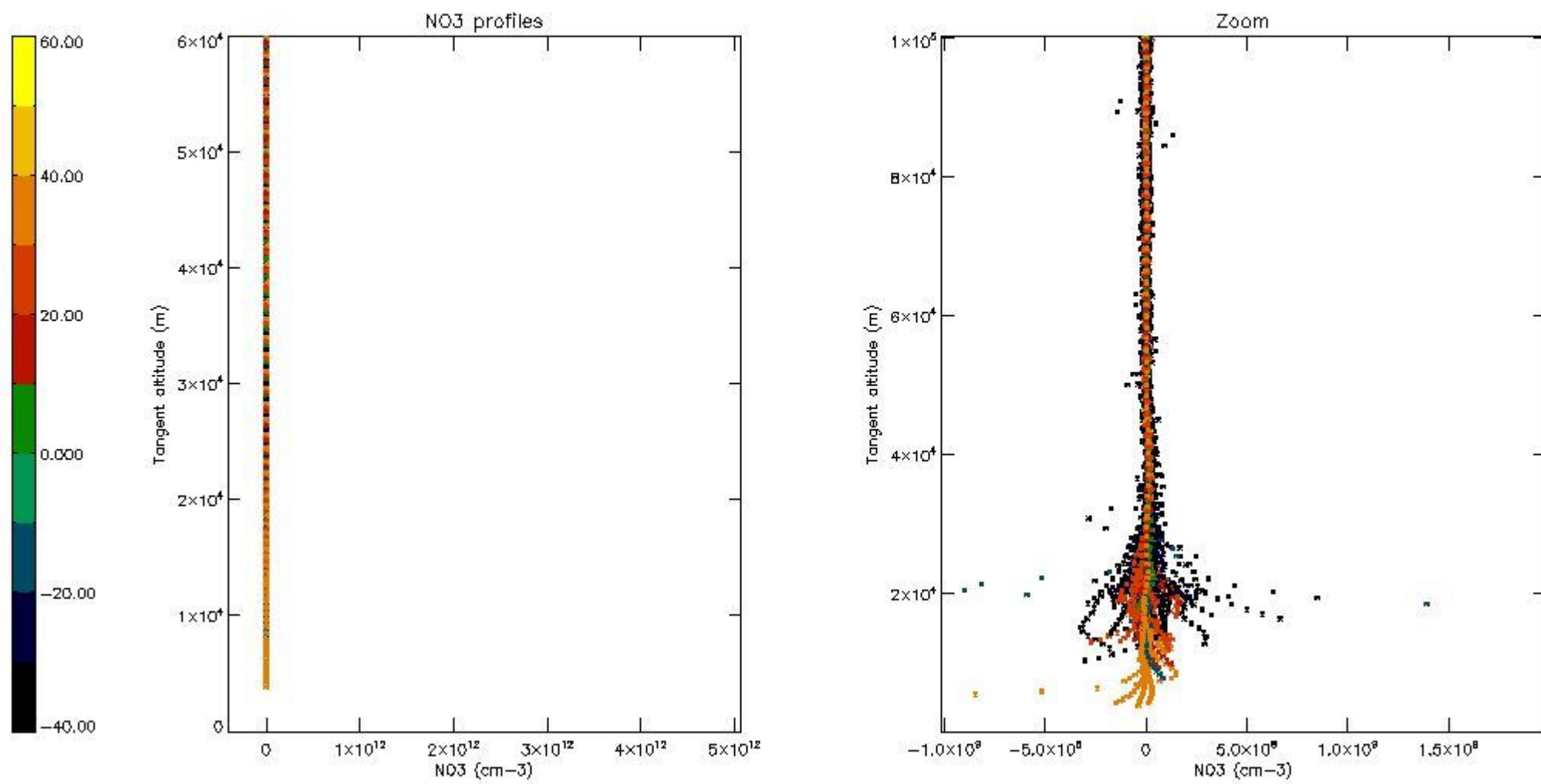
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



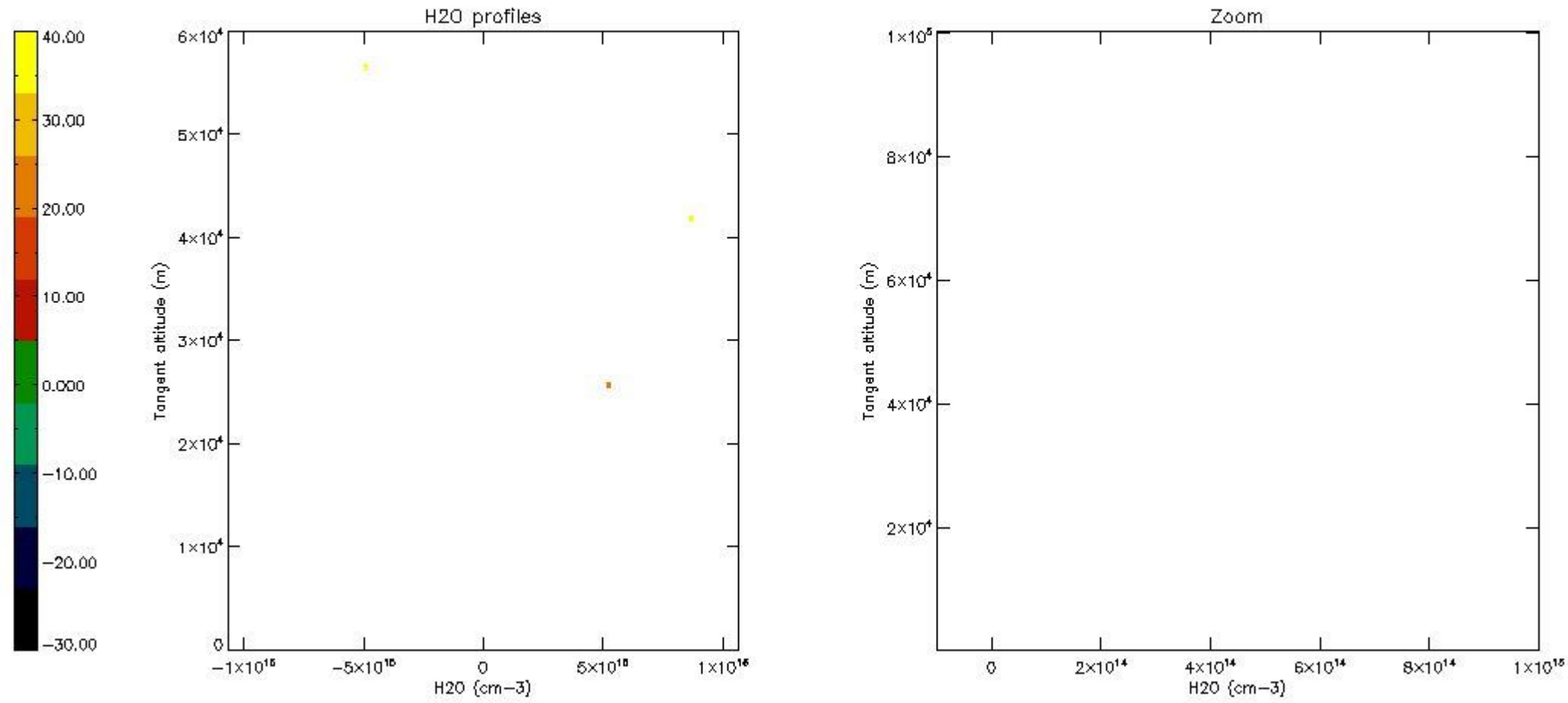
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

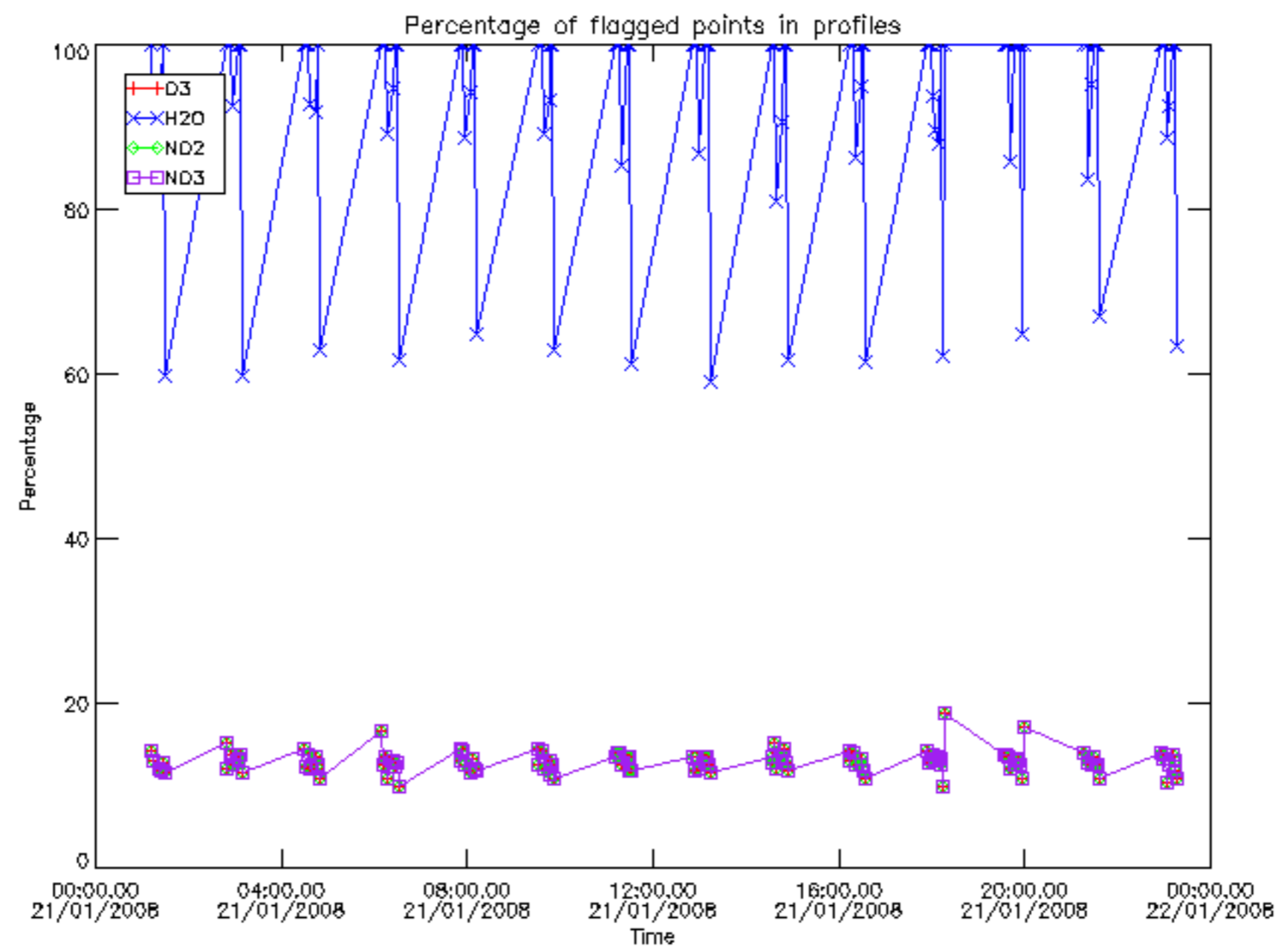
The colorbar represents the latitude.



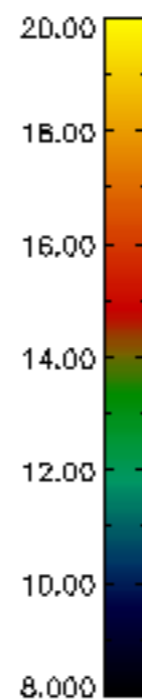
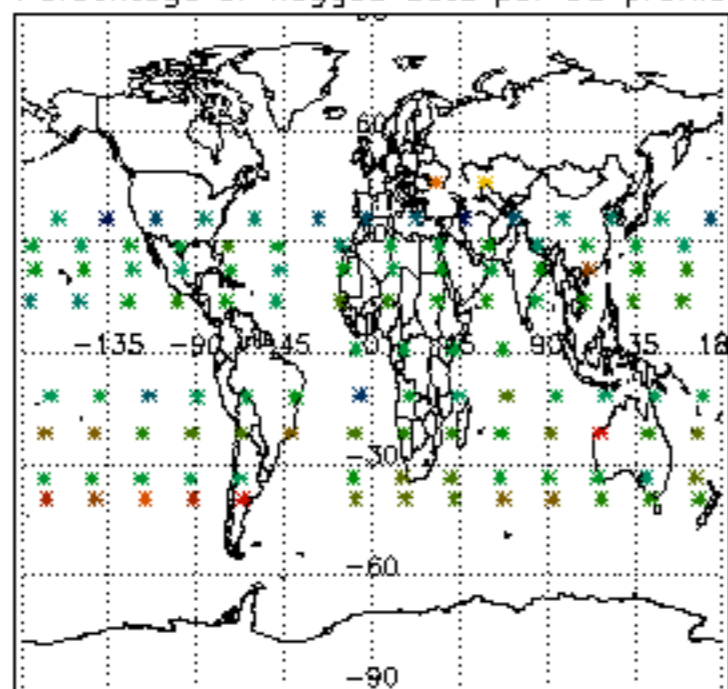
6. Auxiliary Data Files used for the production reported in section 2

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.

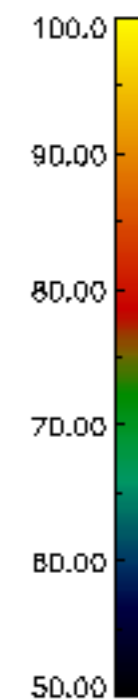
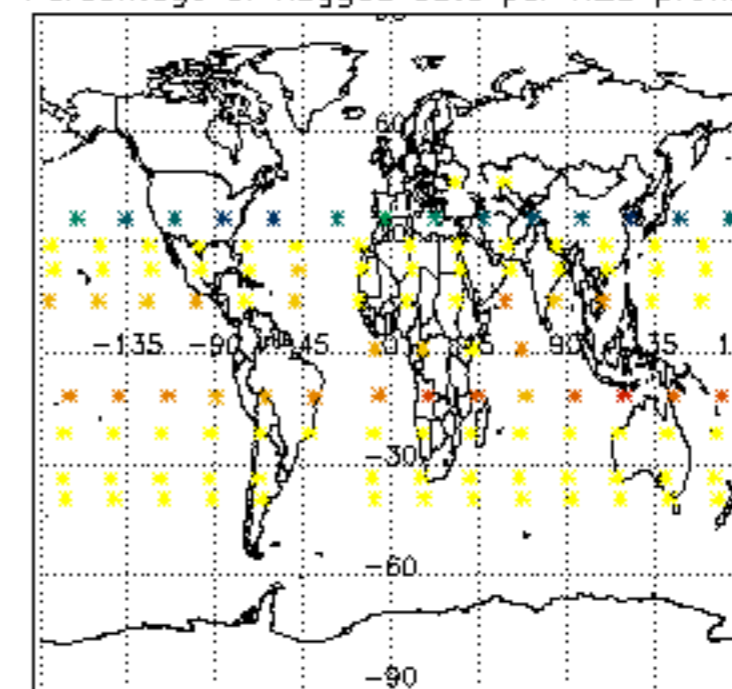
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	21-JAN-2008 00:01:00
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-JAN-2008 00:01:00
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-JAN-2008 00:01:00



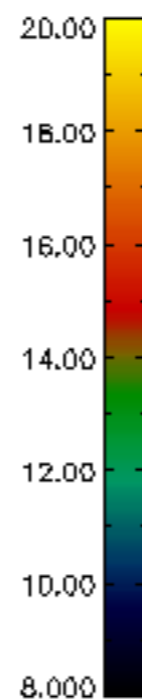
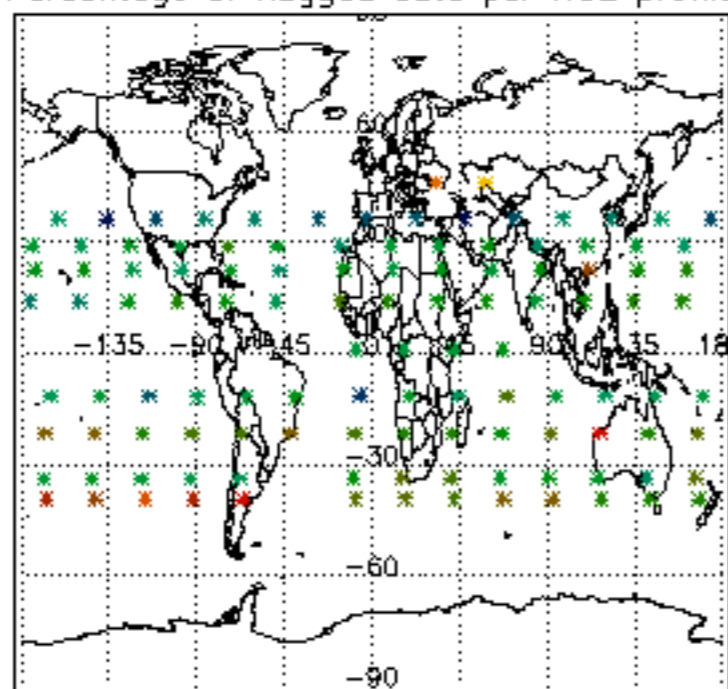
Percentage of flagged data per D3 profile



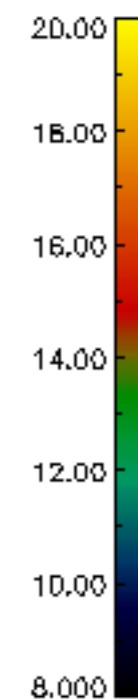
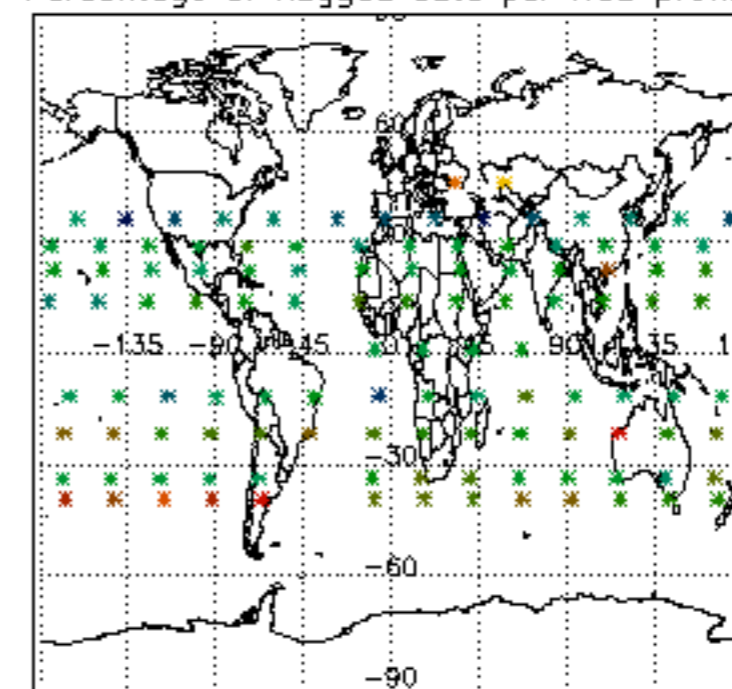
Percentage of flagged data per H2O profile

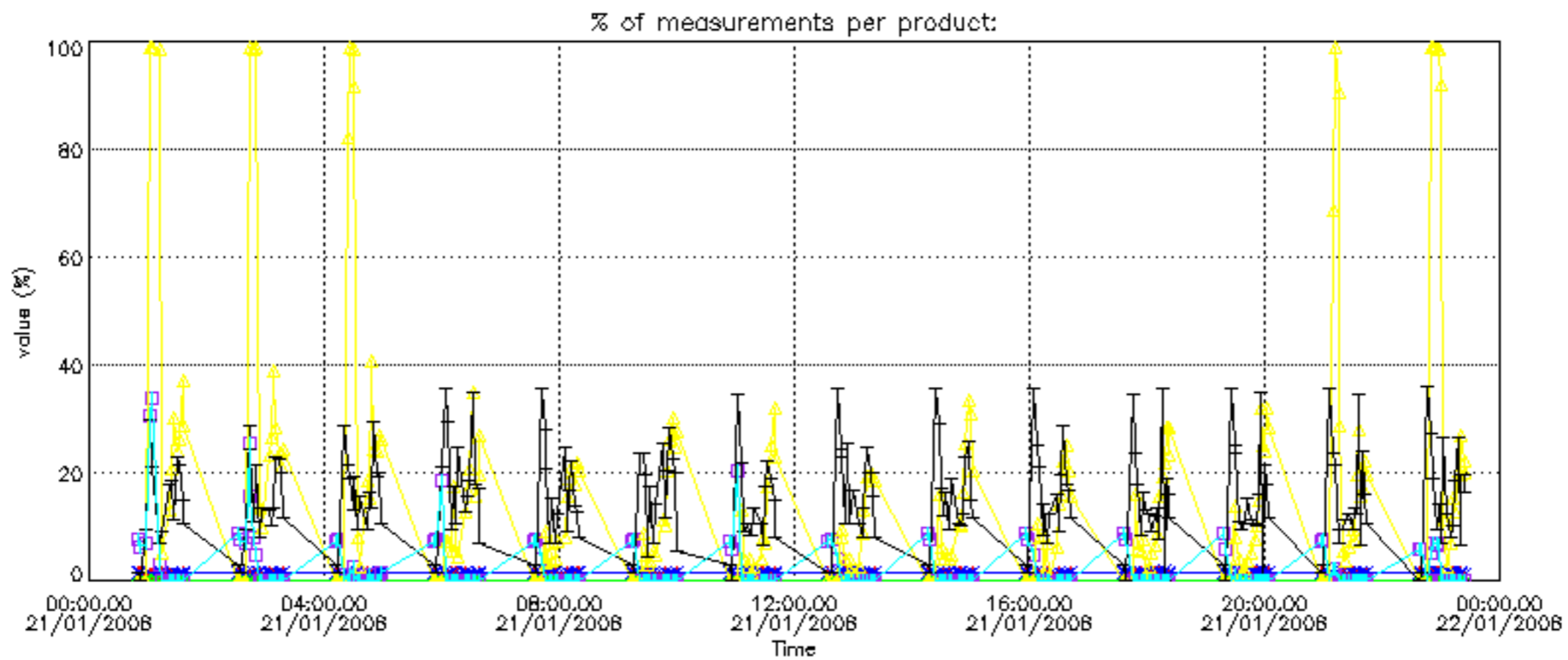


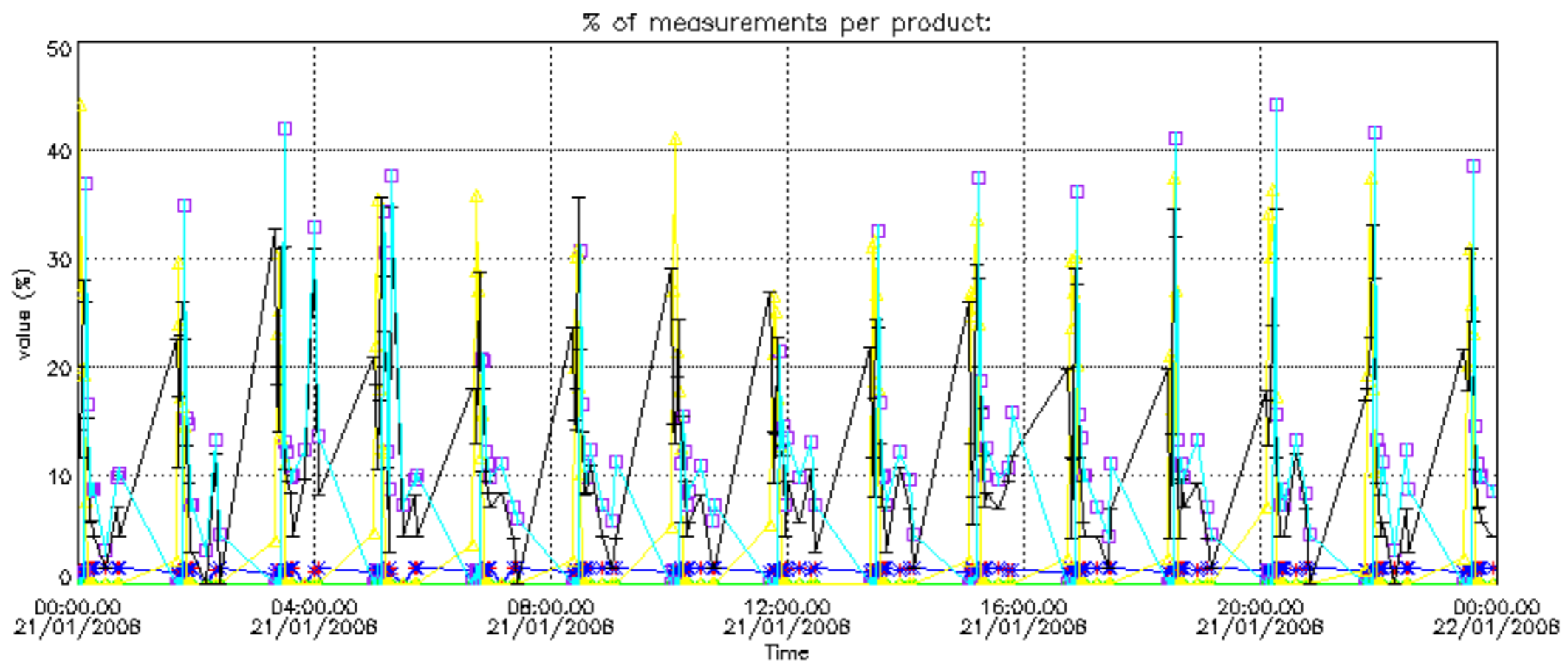
Percentage of flagged data per NO2 profile



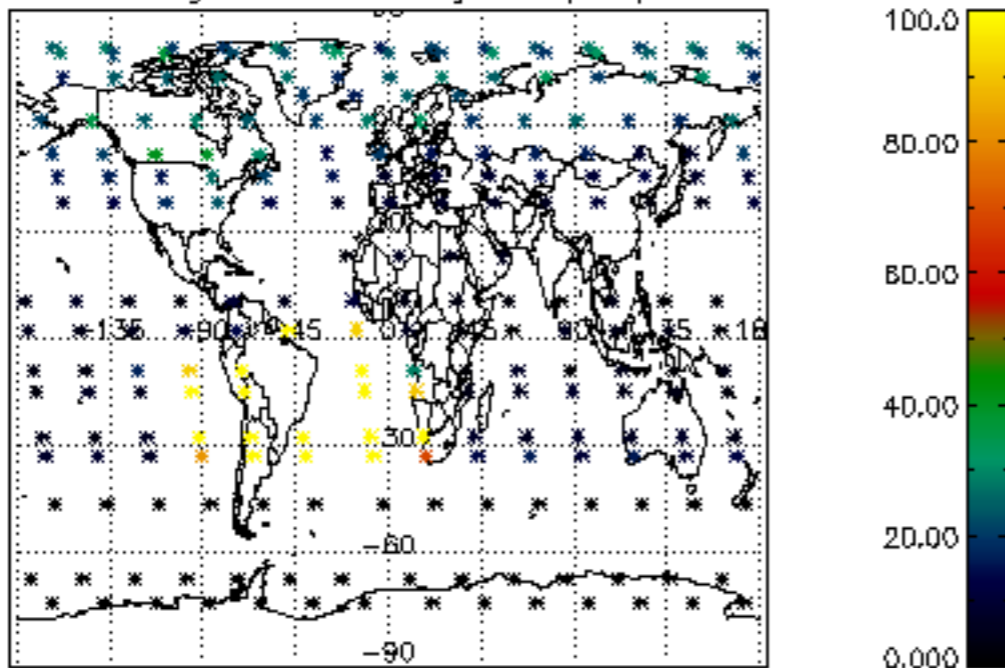
Percentage of flagged data per NO3 profile



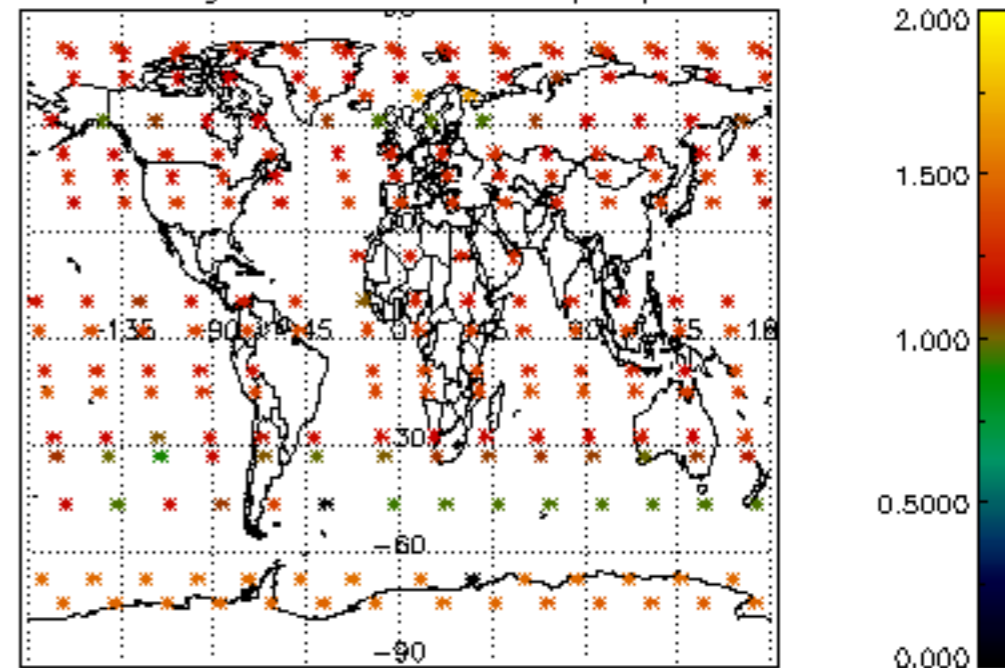




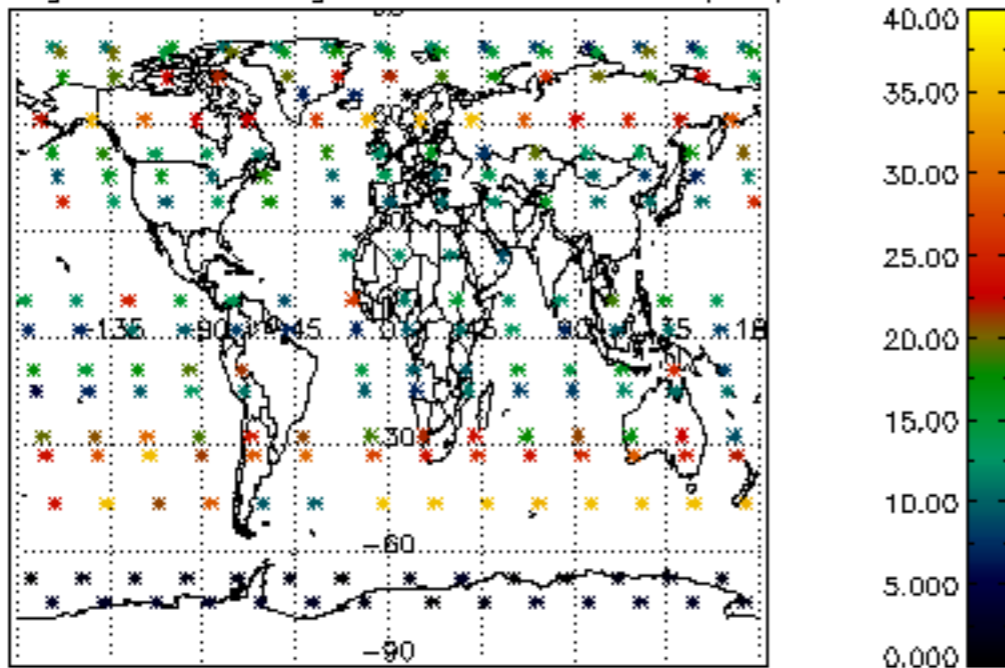
Percentage of cosmic ray hits per profile



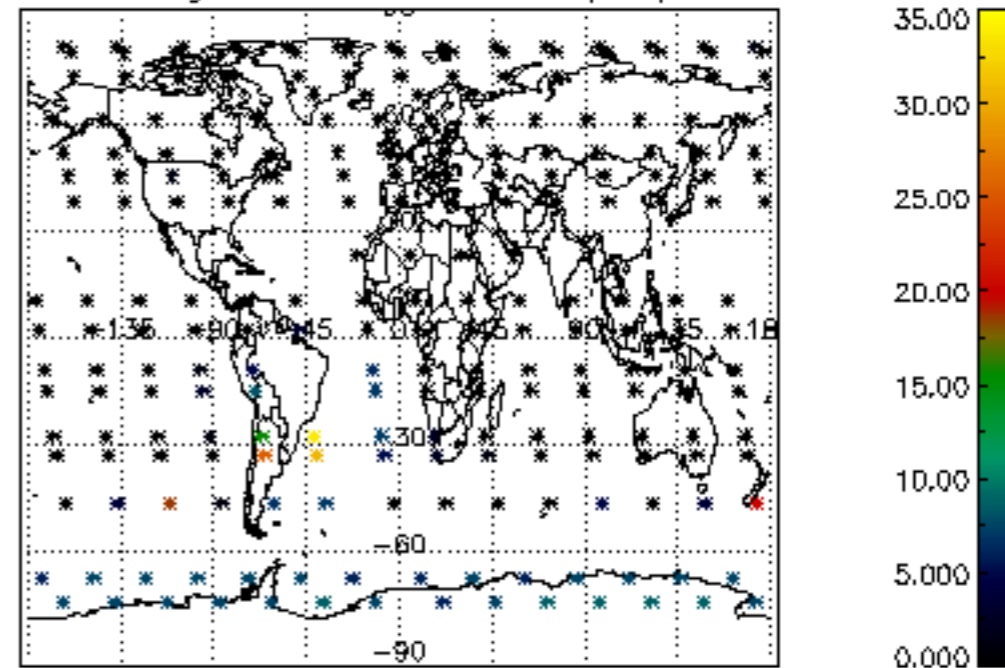
Percentage of datation errors per profile



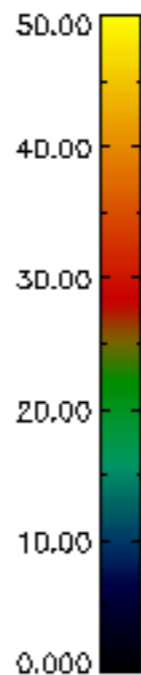
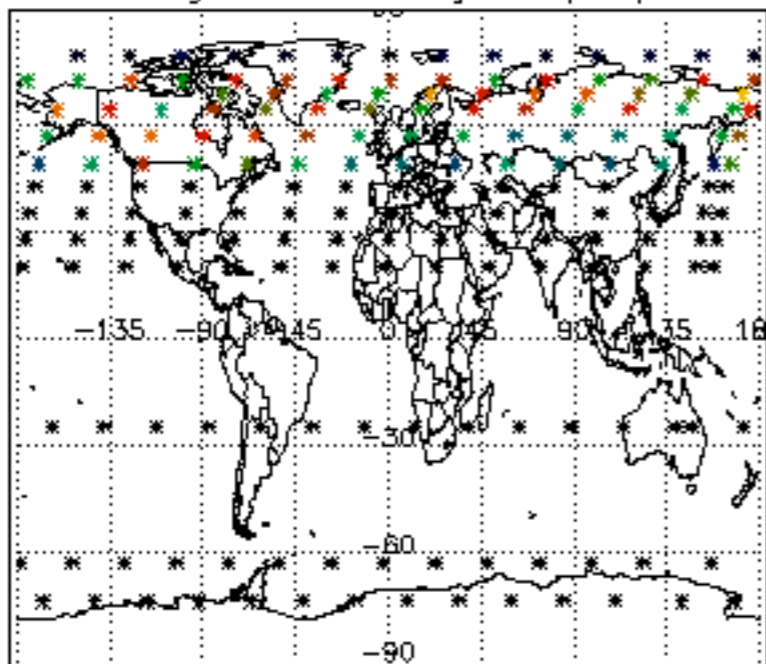
Percentage of star falling outside central band per profile



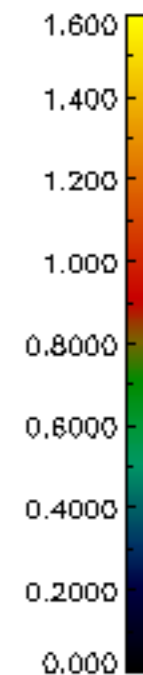
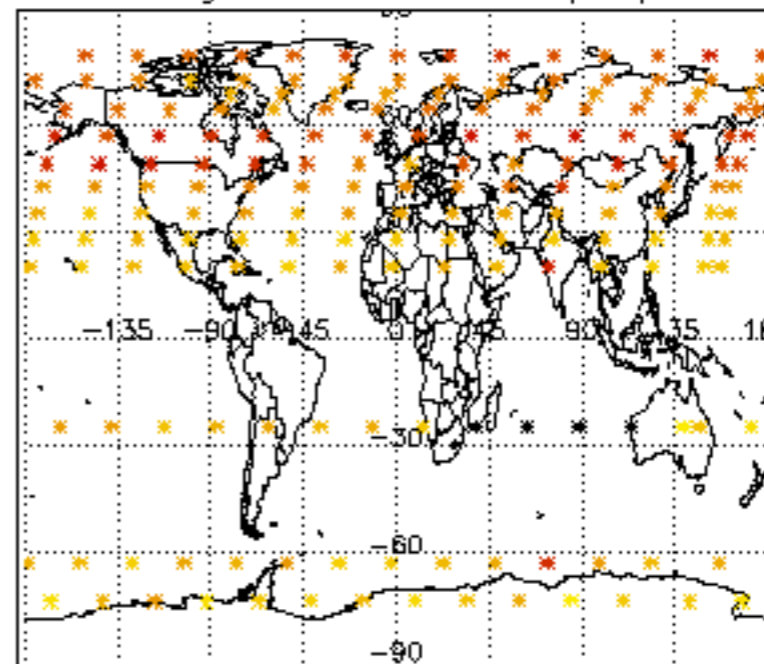
Percentage of saturation errors per profile



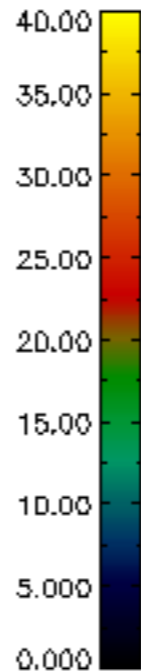
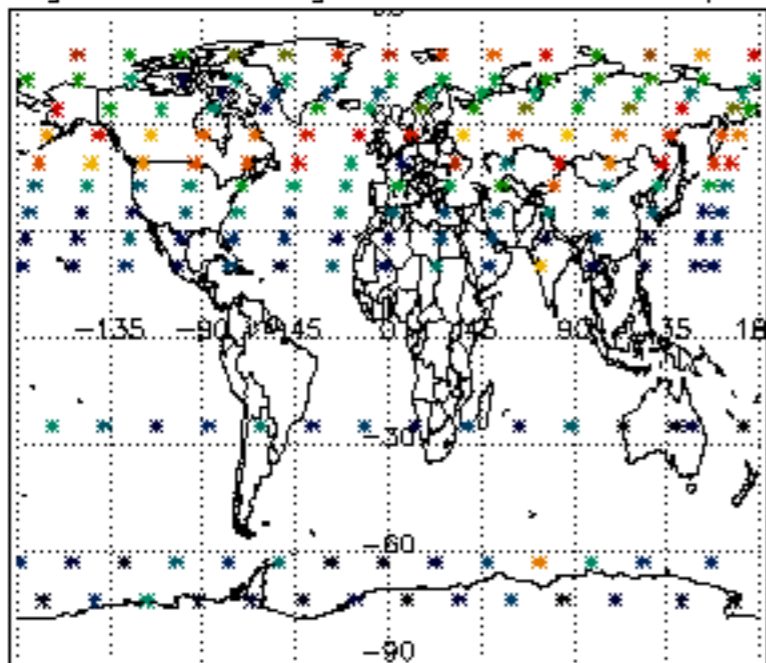
Percentage of cosmic ray hits per profile



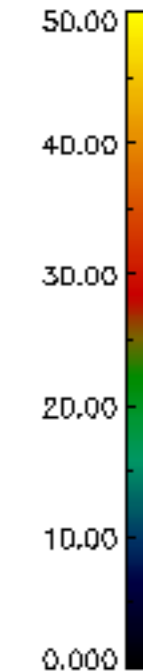
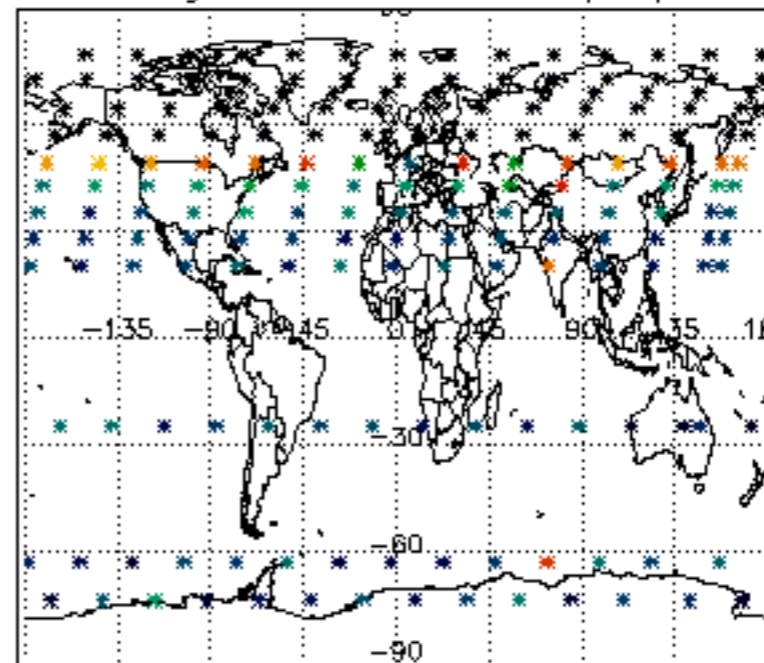
Percentage of datation errors per profile

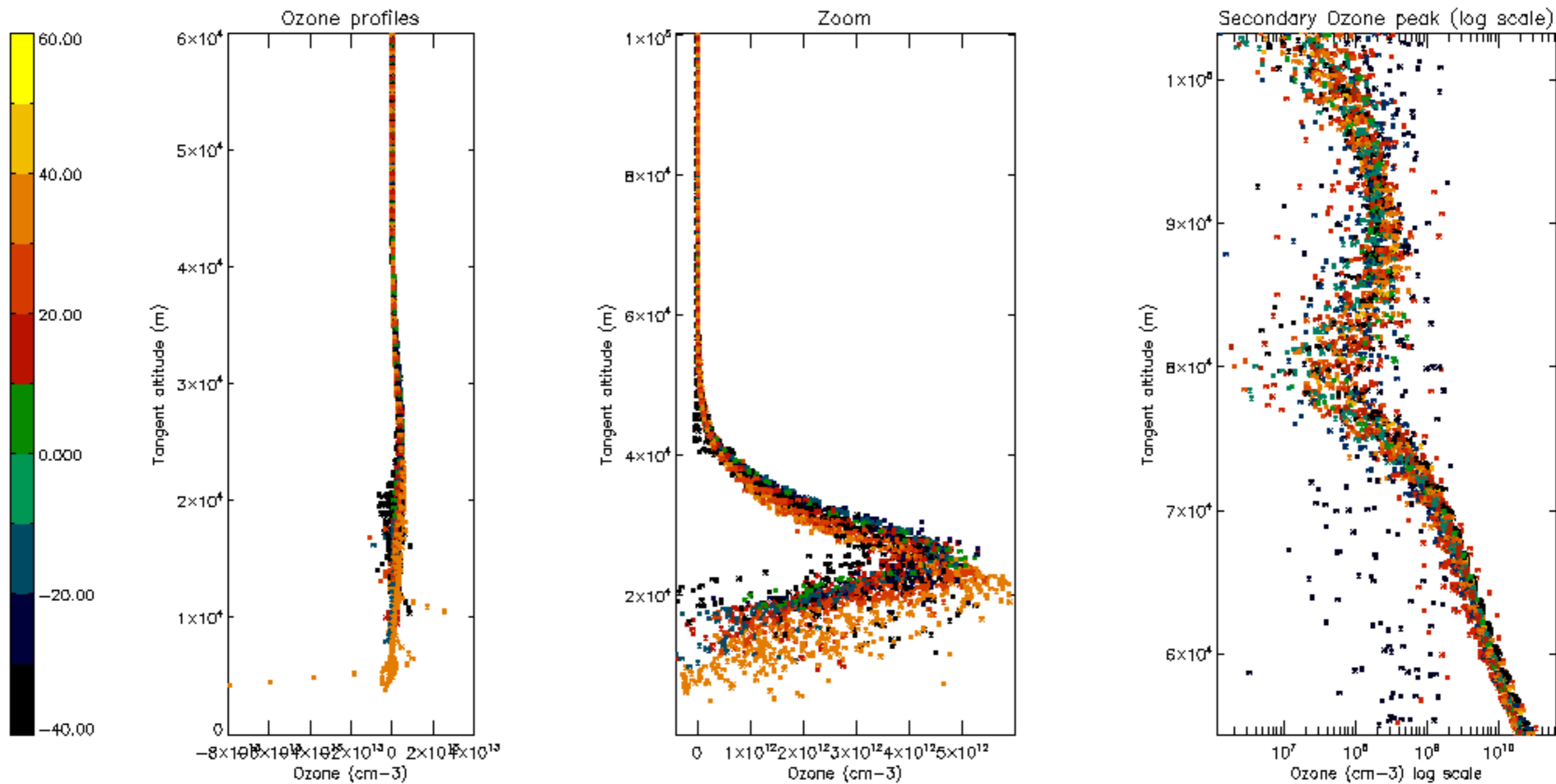


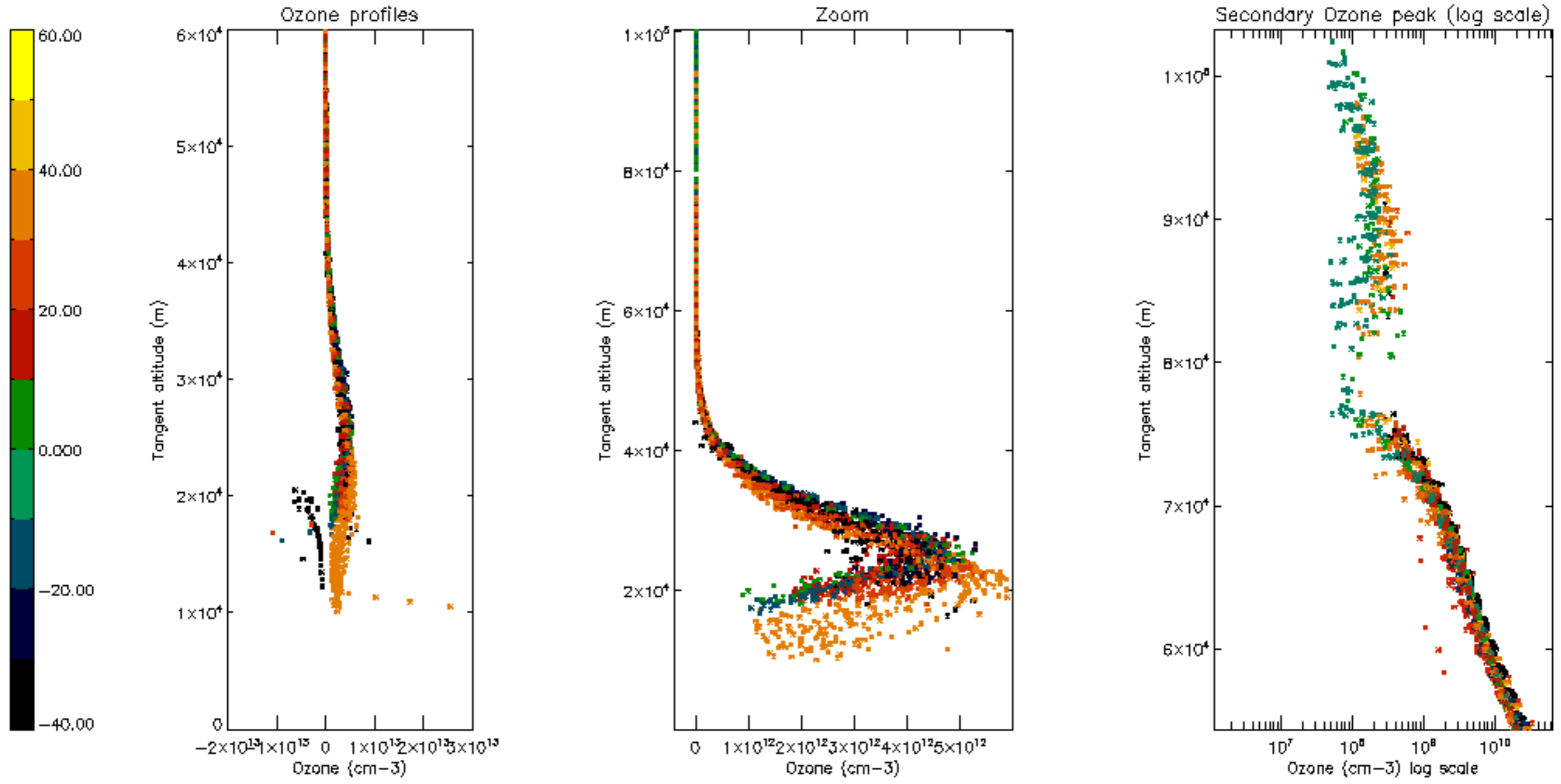
Percentage of star falling outside central band per profile

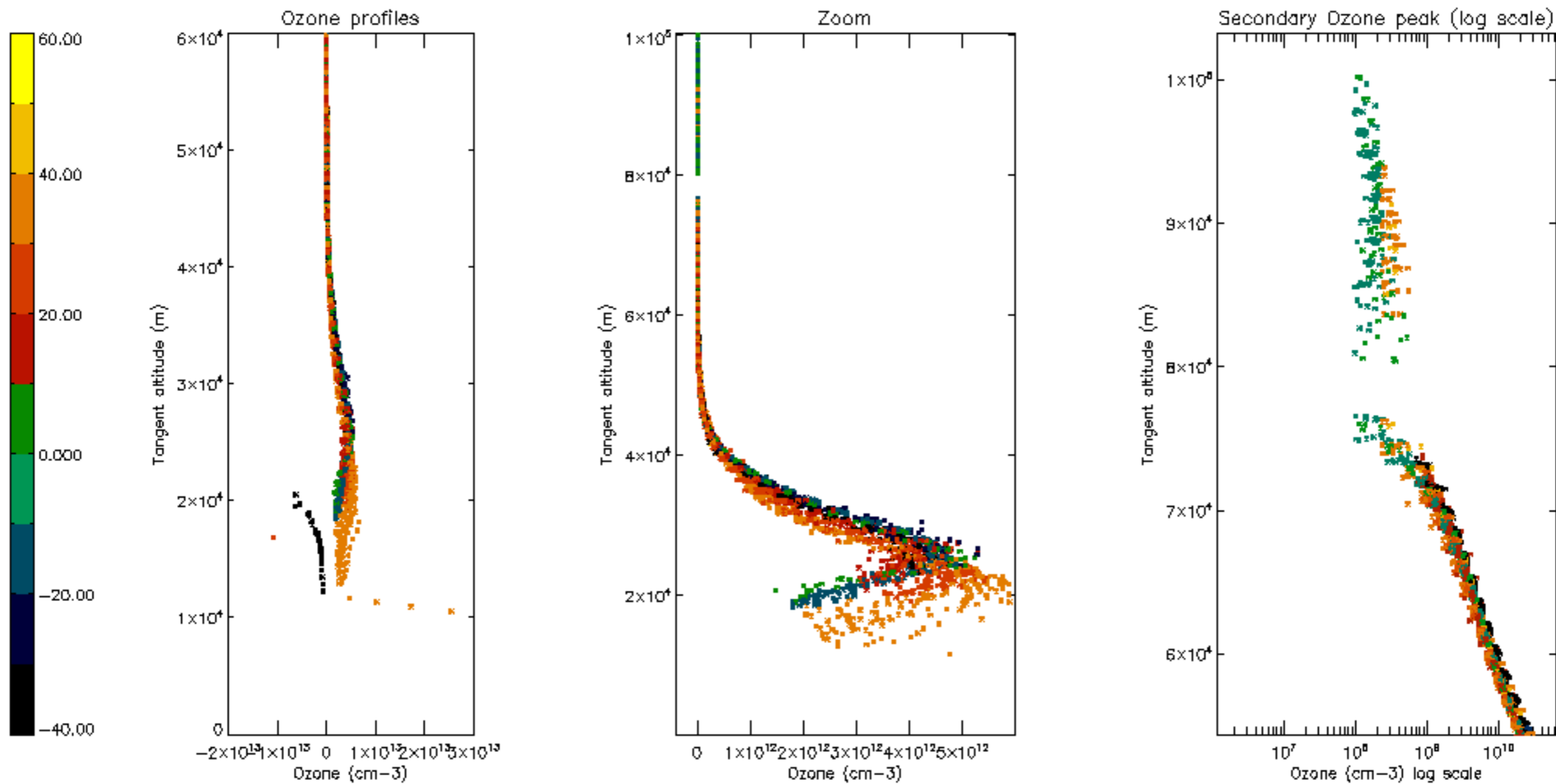


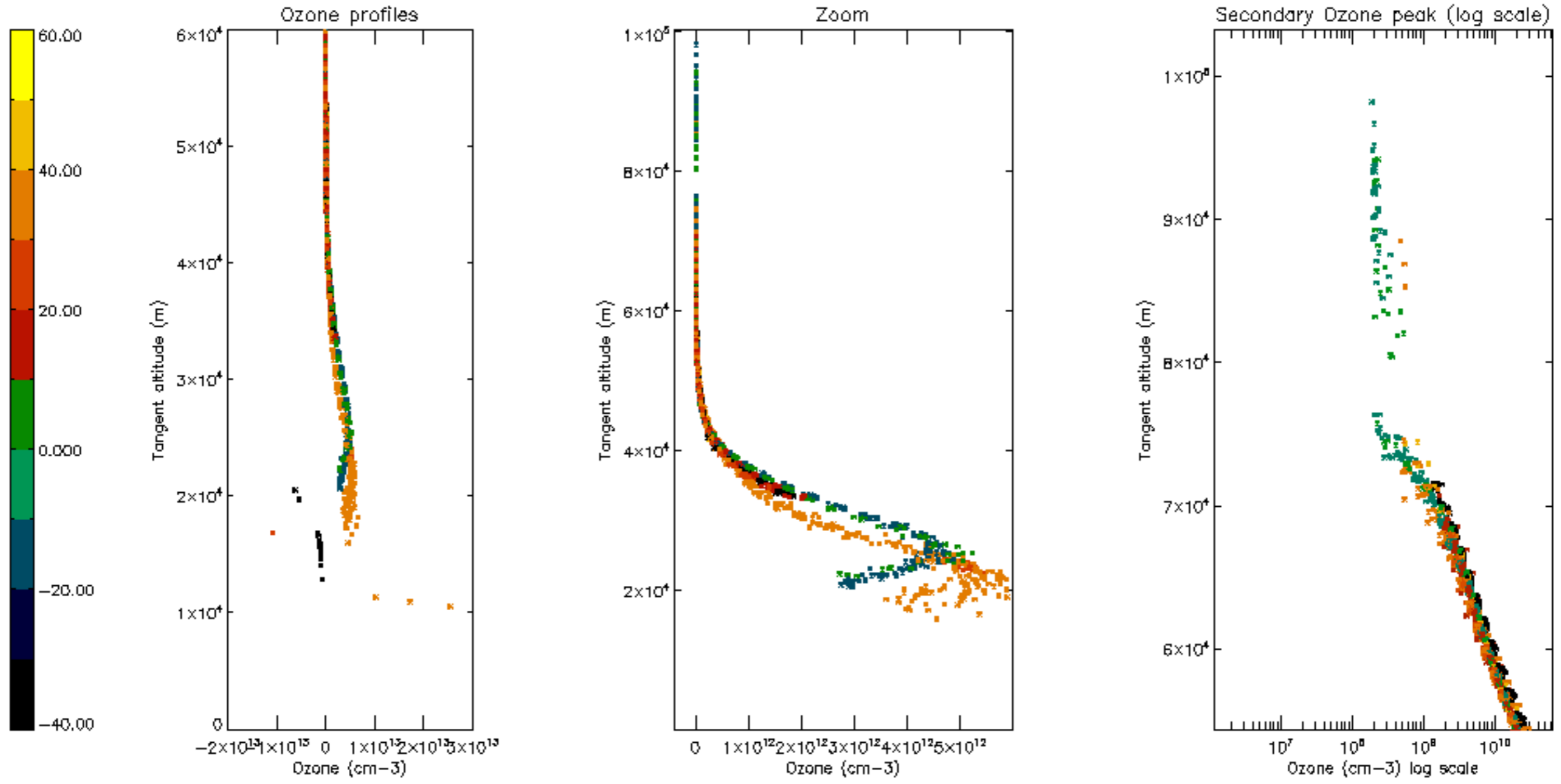
Percentage of saturation errors per profile

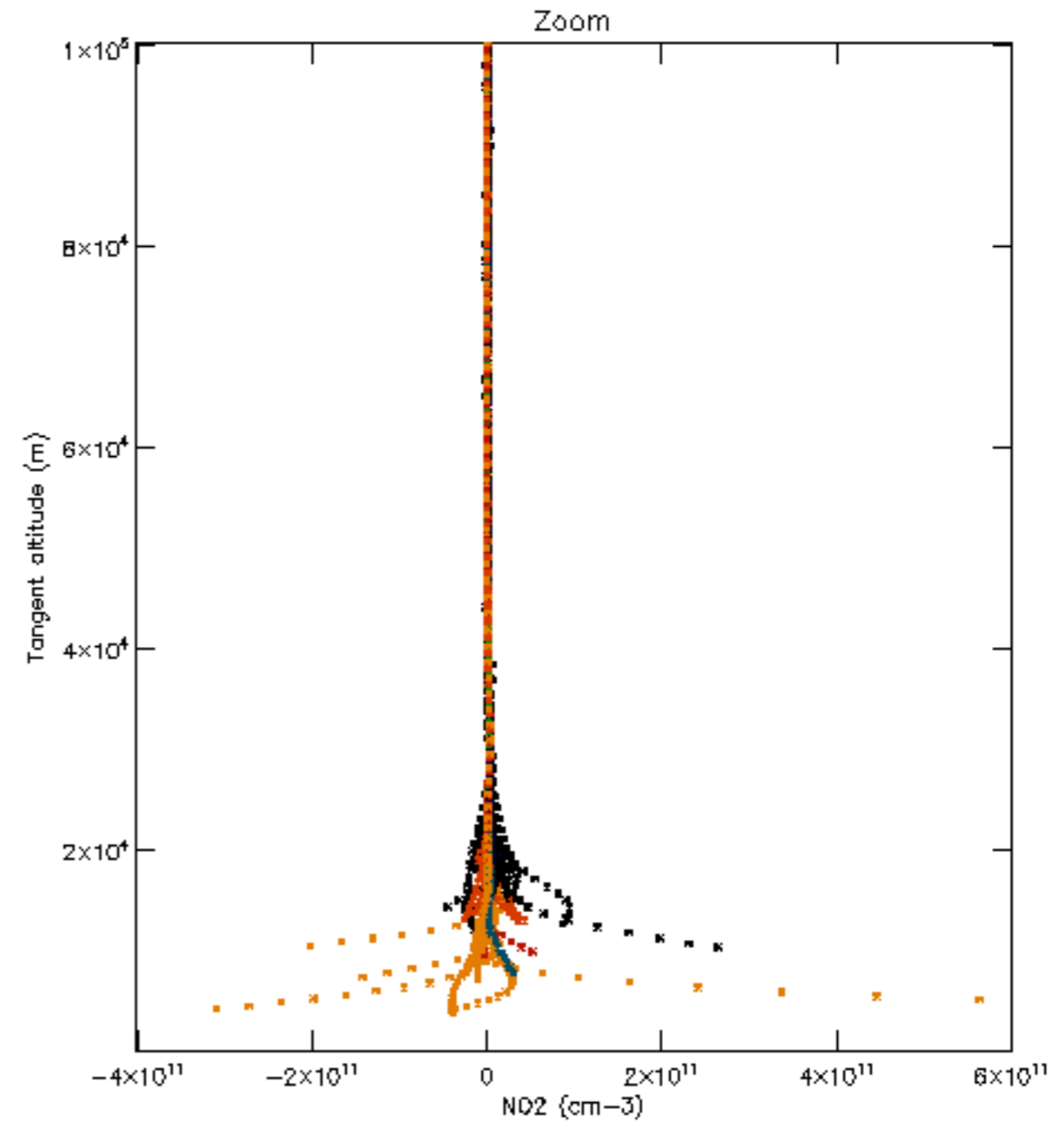
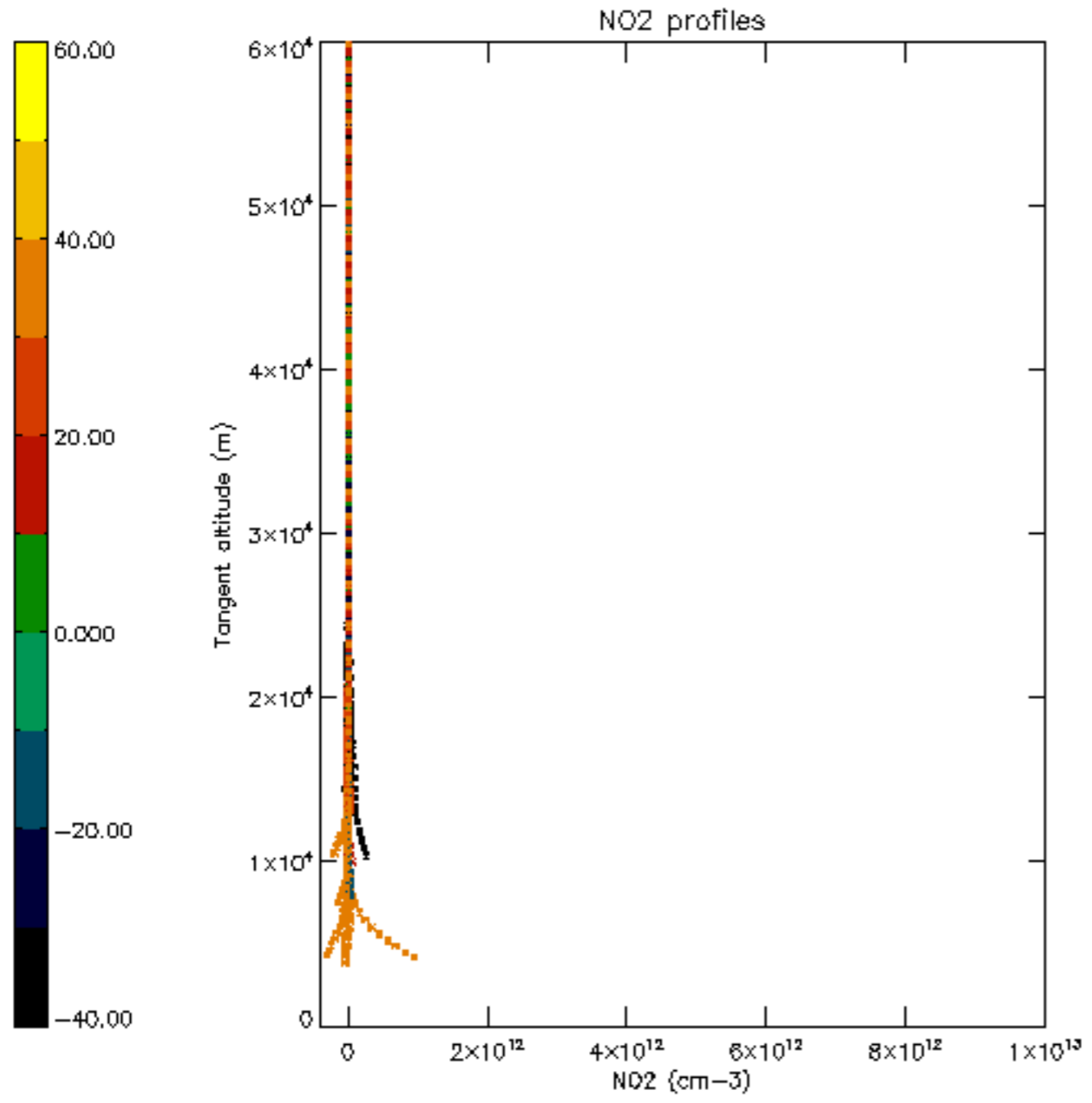


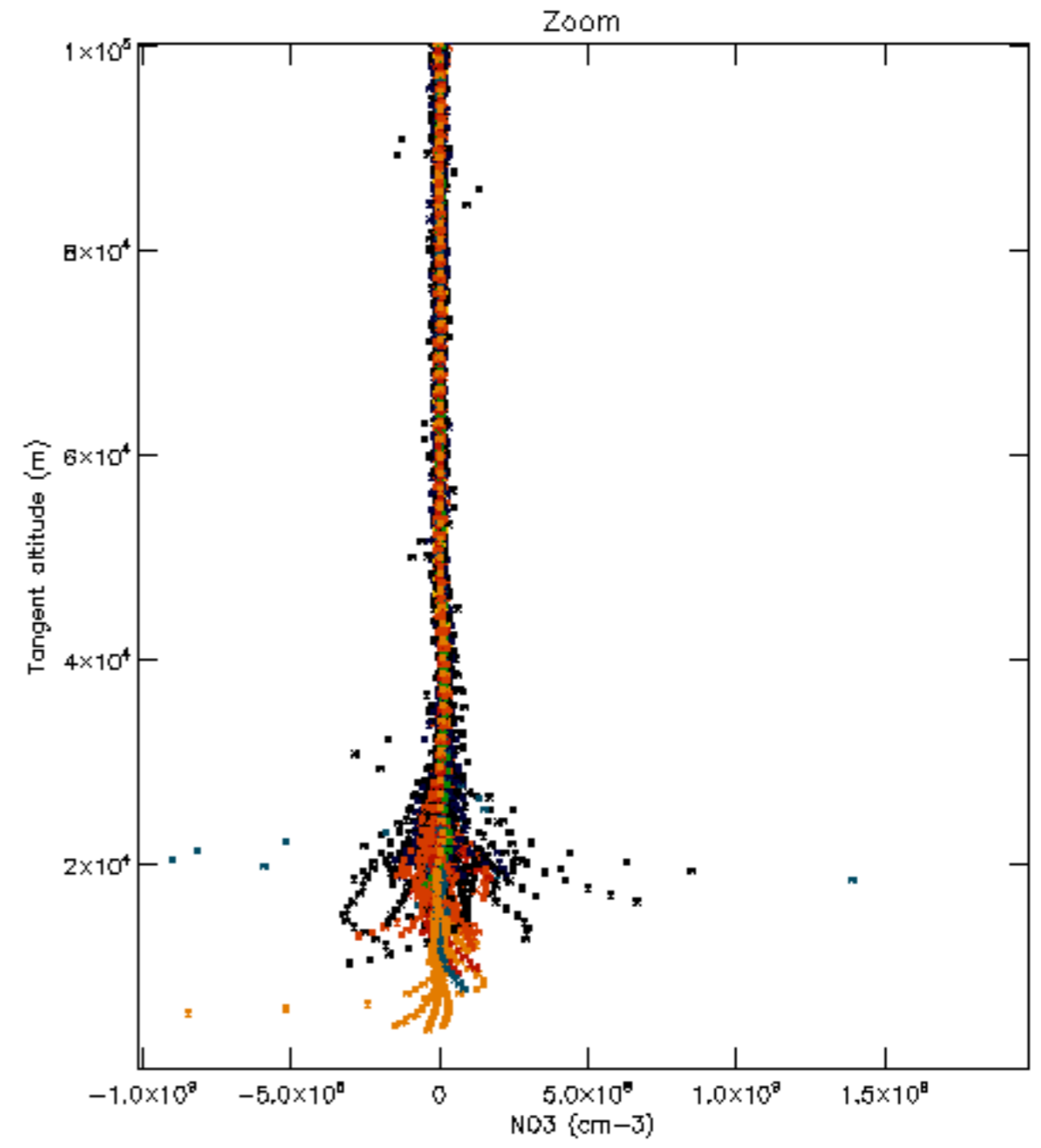
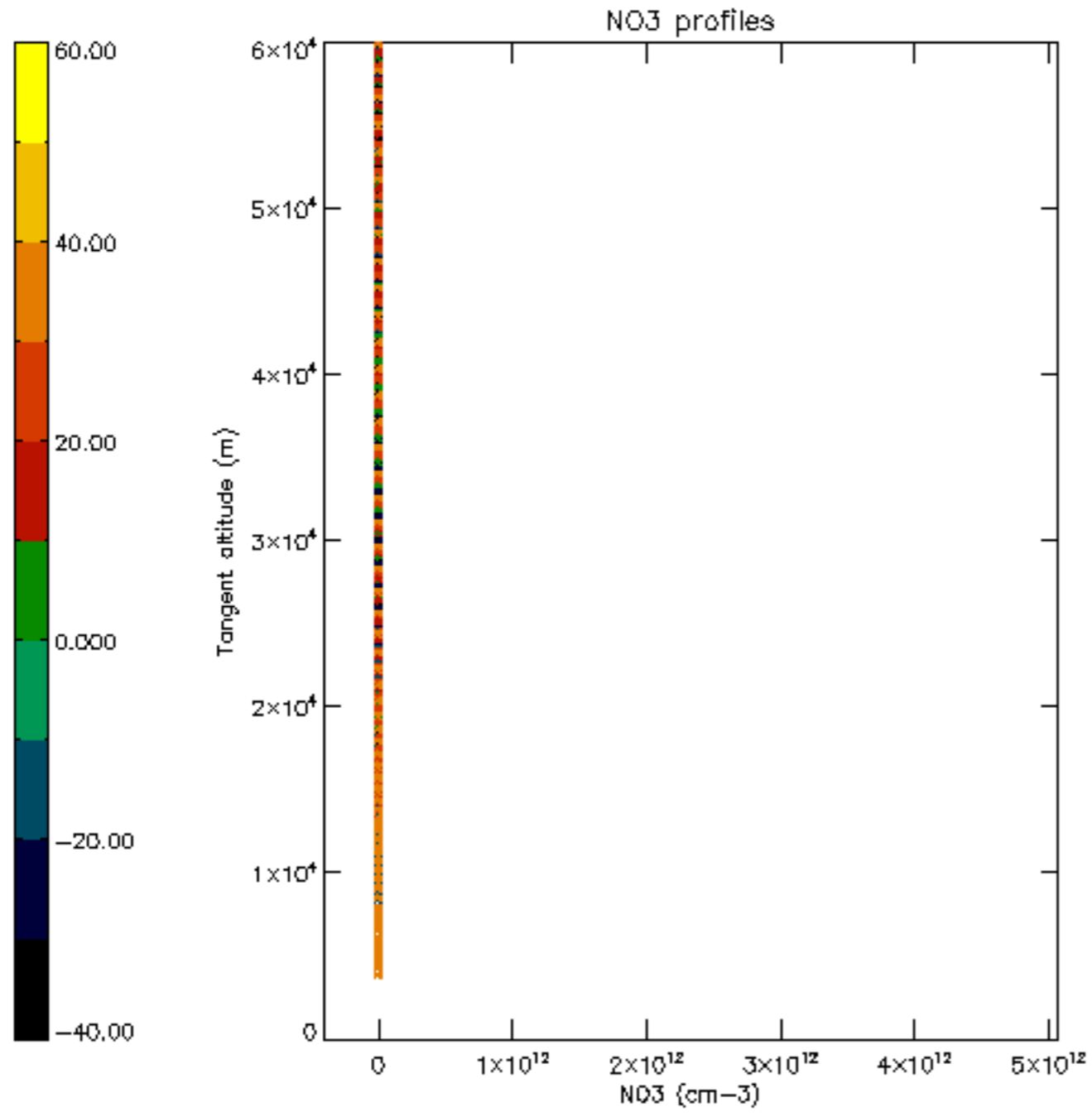


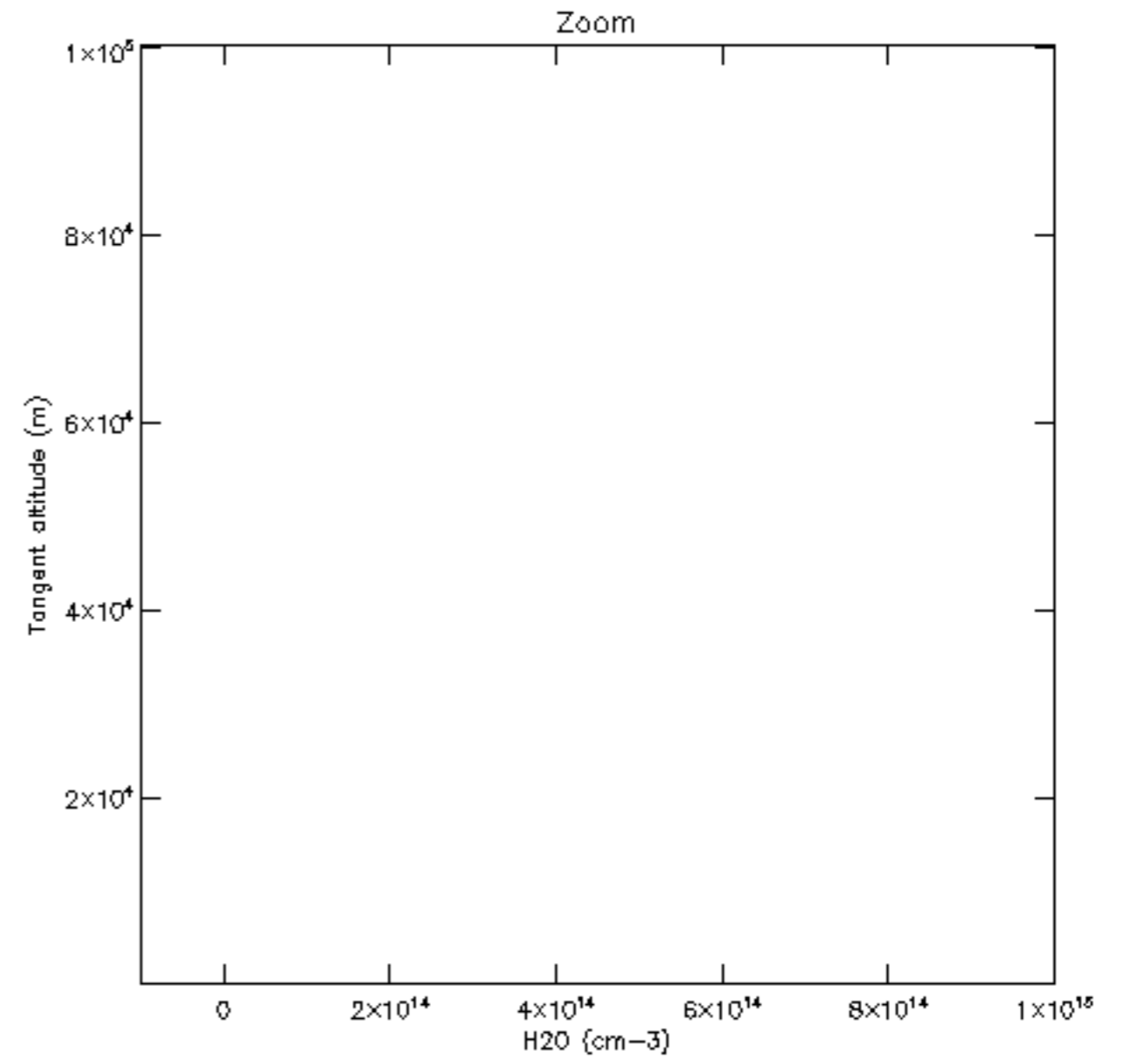
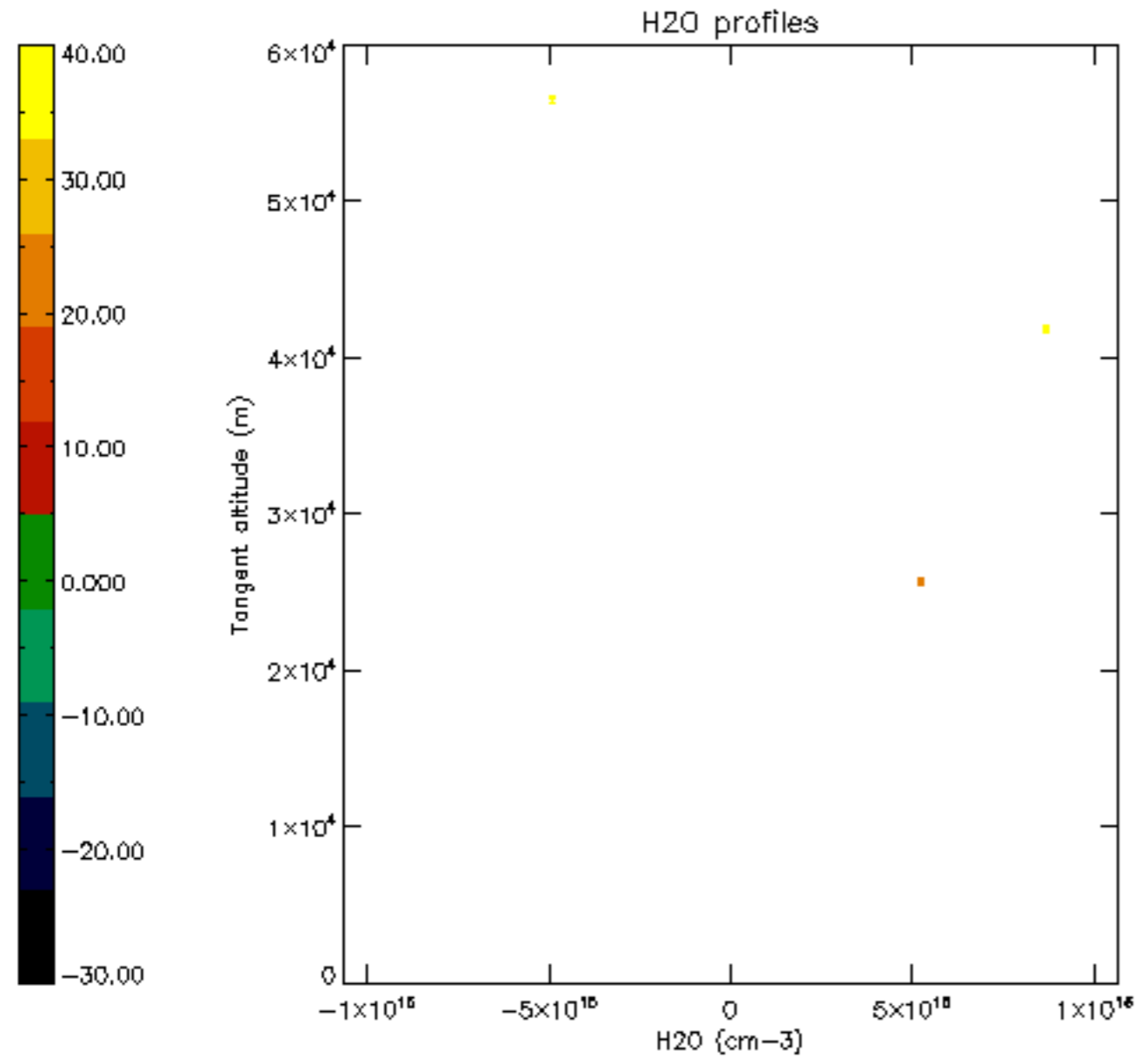


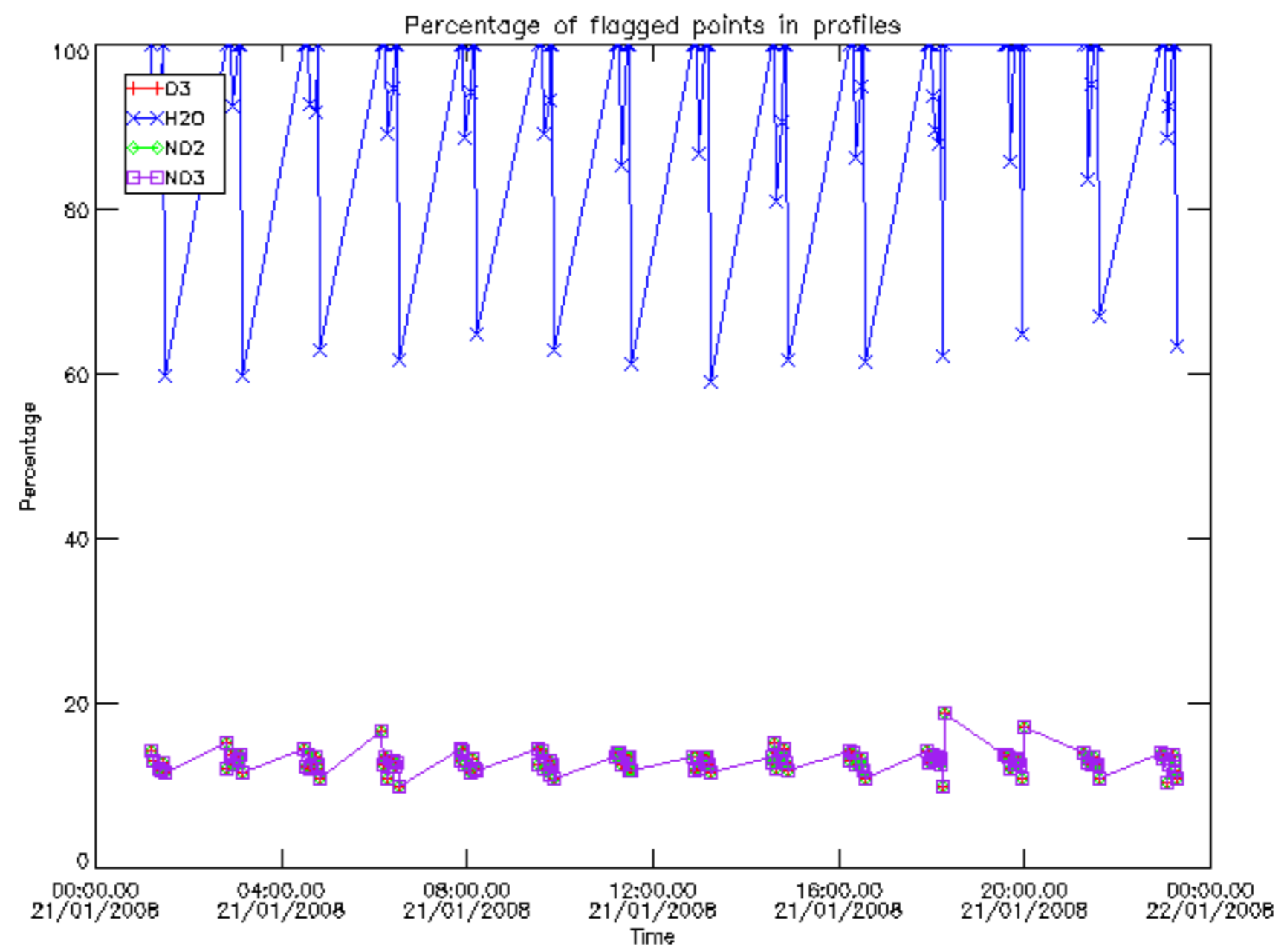




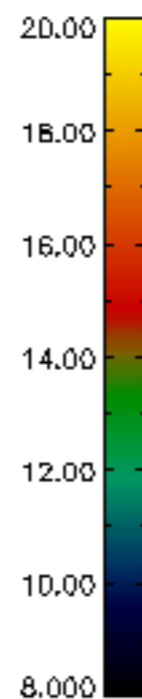
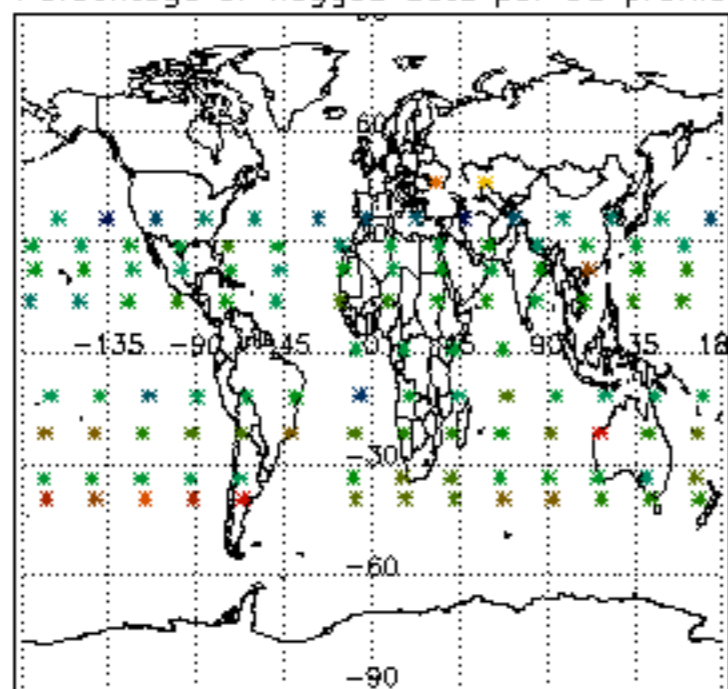




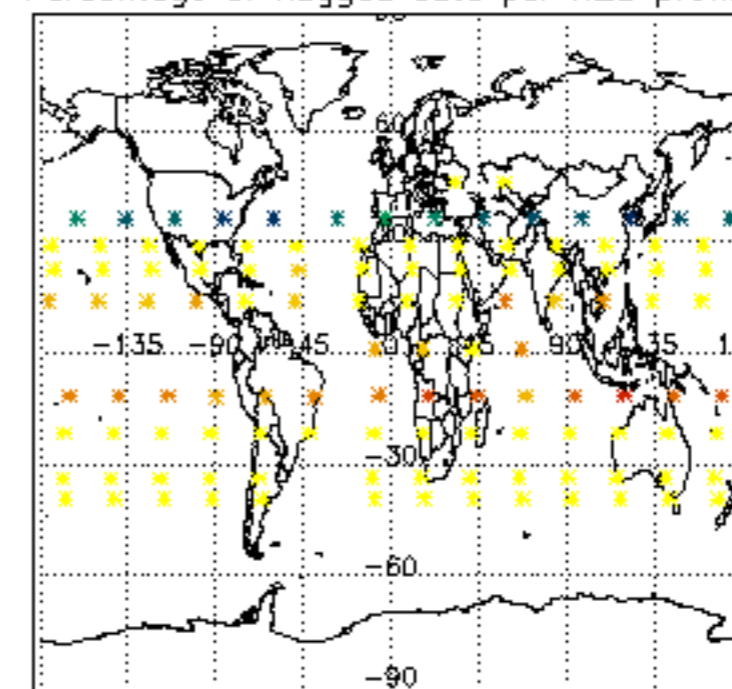




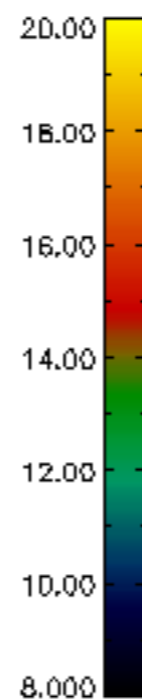
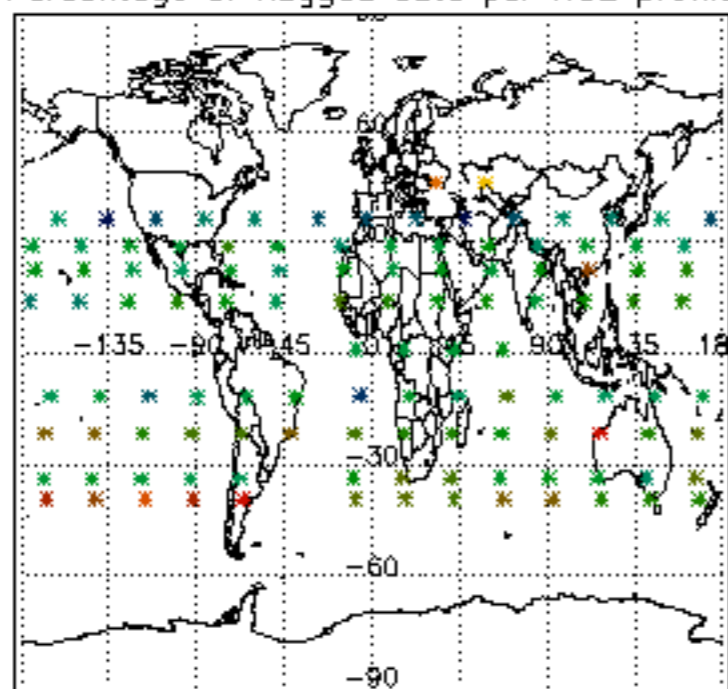
Percentage of flagged data per D3 profile



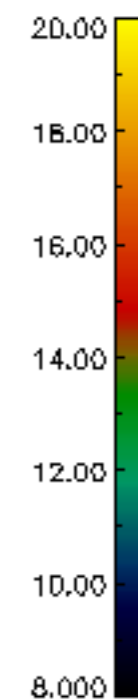
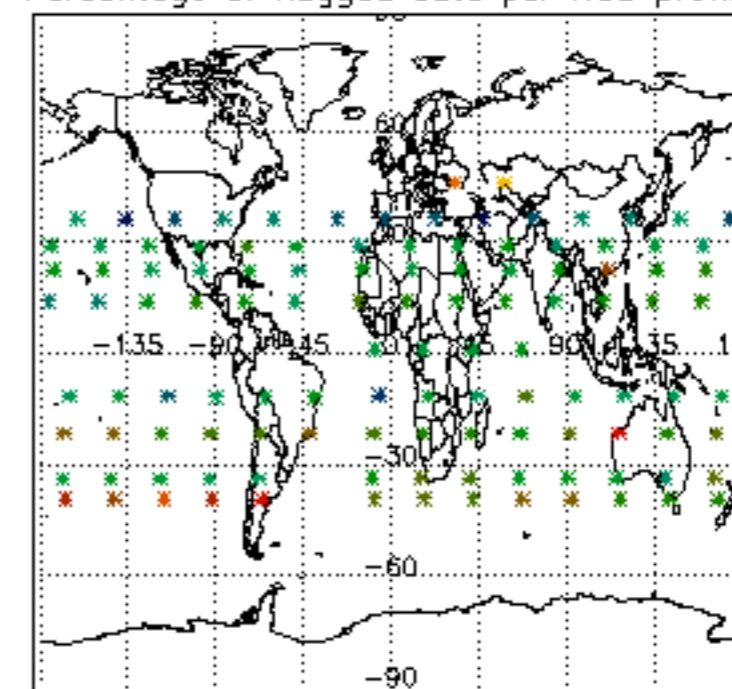
Percentage of flagged data per H2O profile

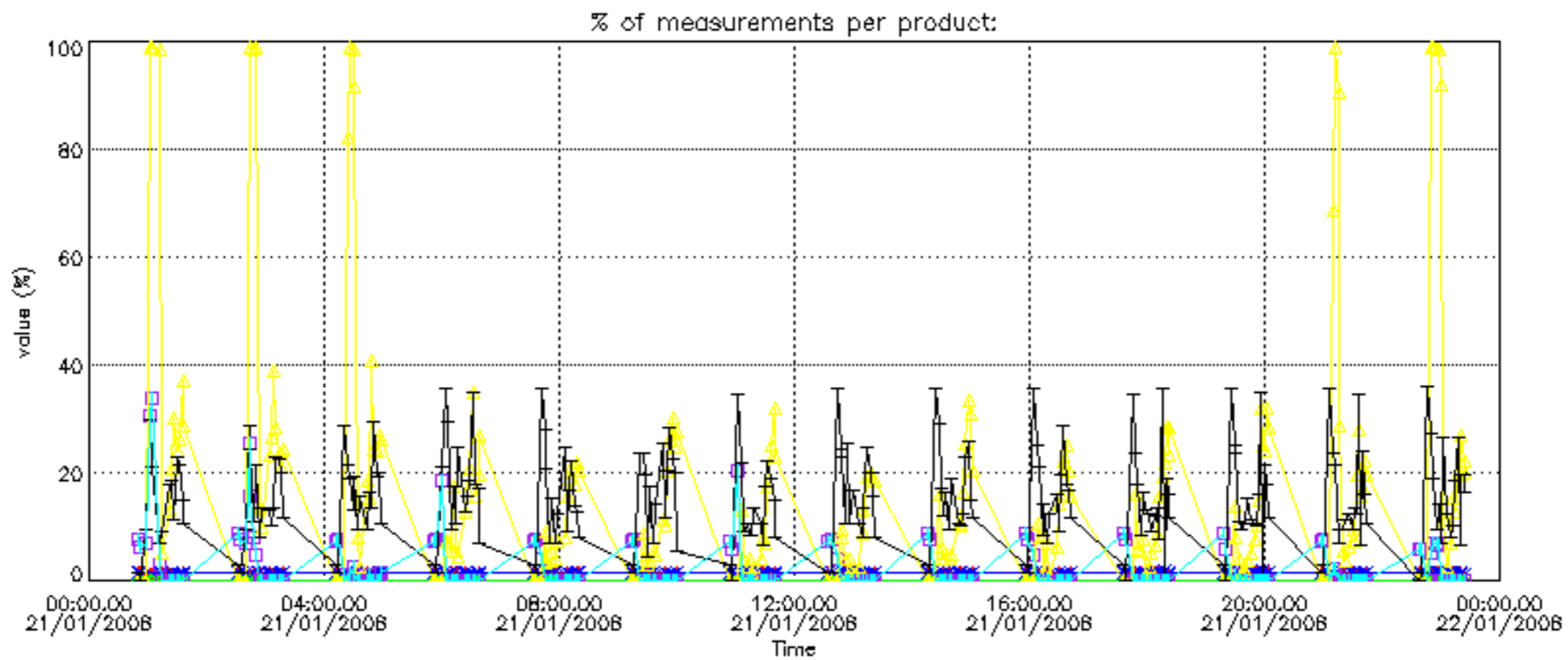


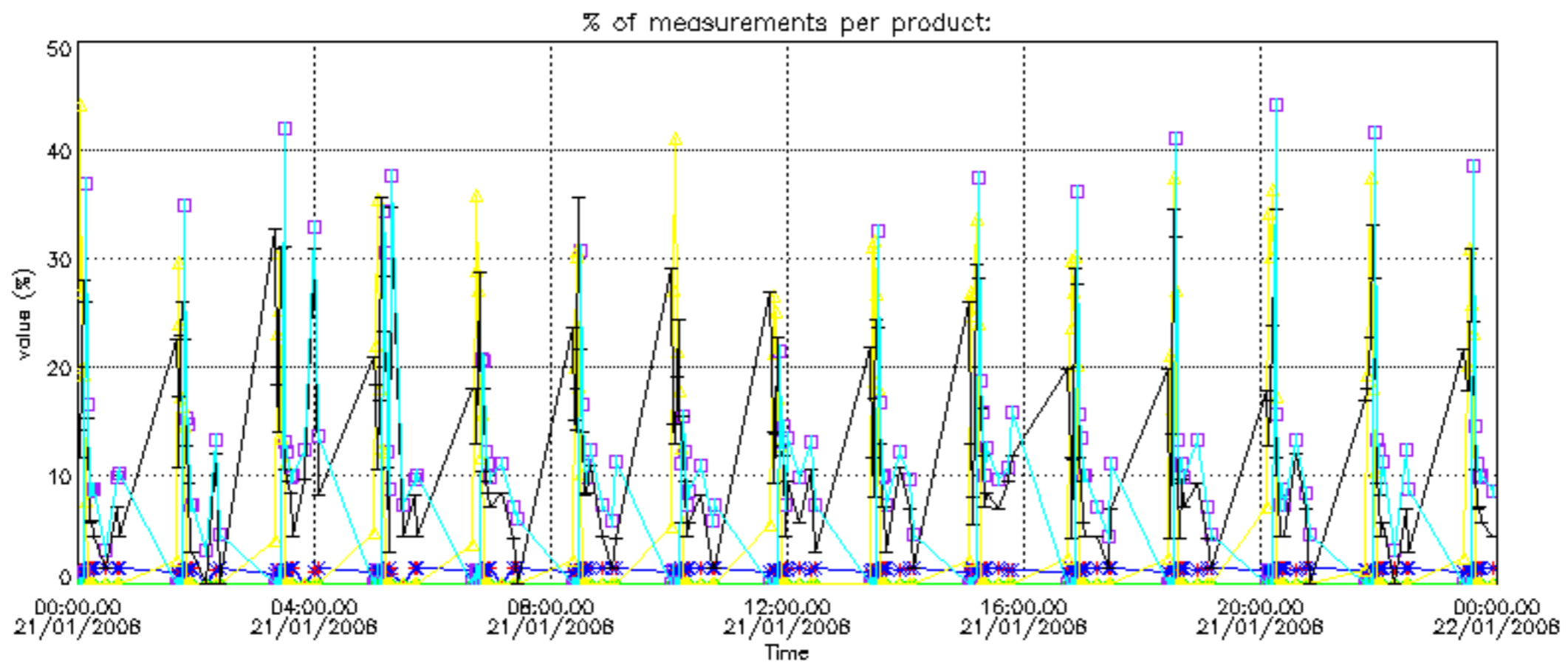
Percentage of flagged data per NO2 profile



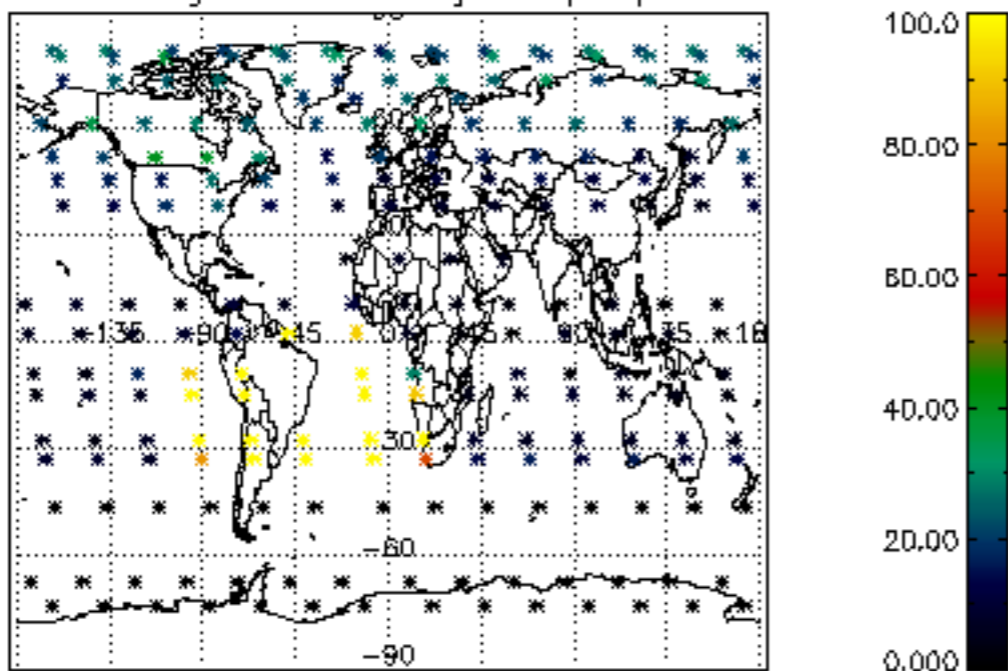
Percentage of flagged data per NO3 profile



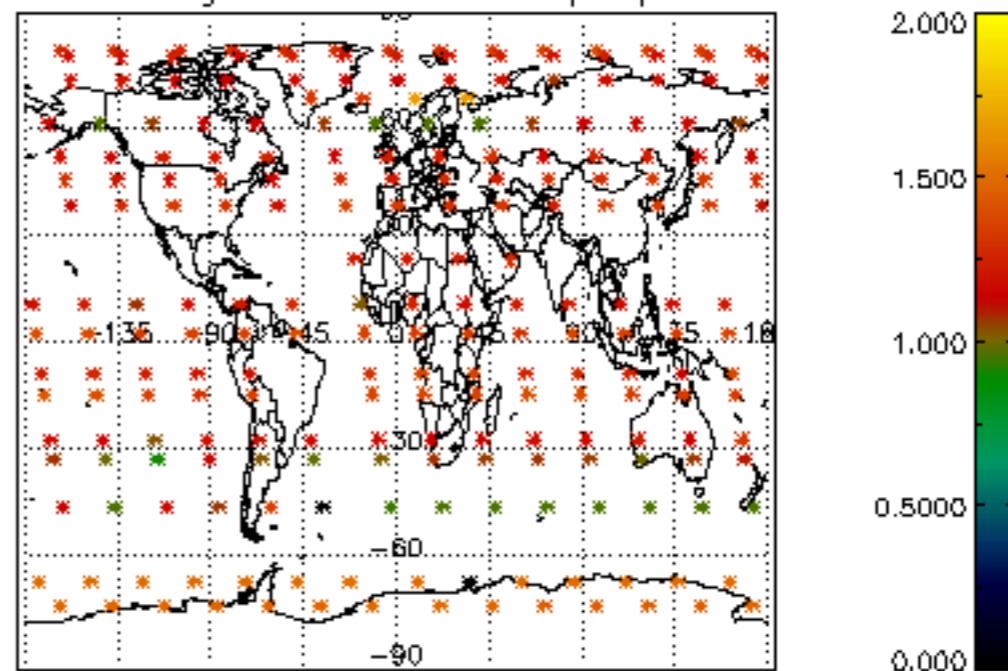




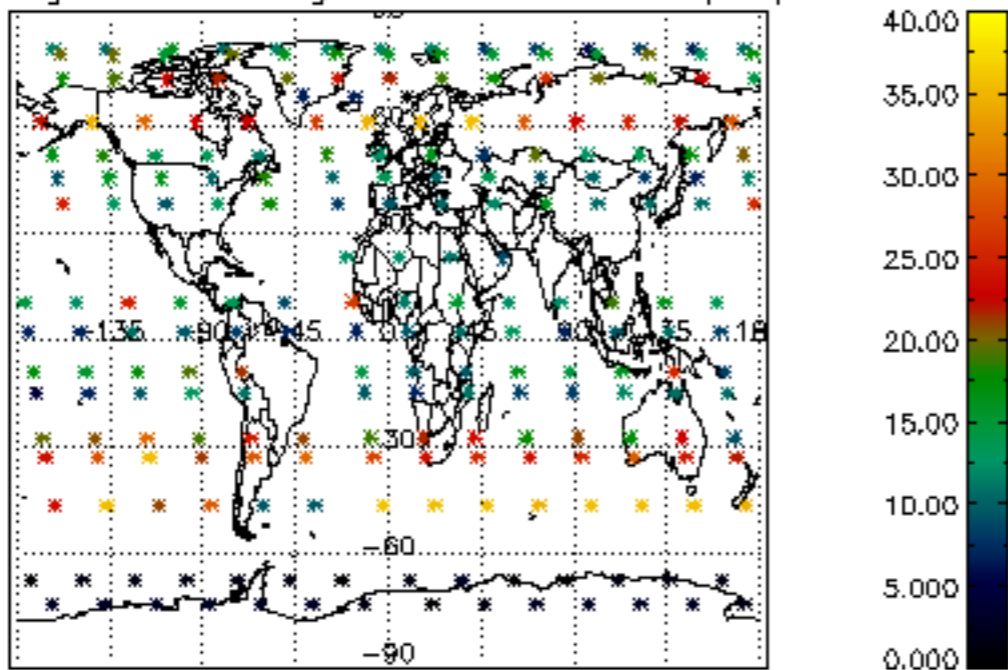
Percentage of cosmic ray hits per profile



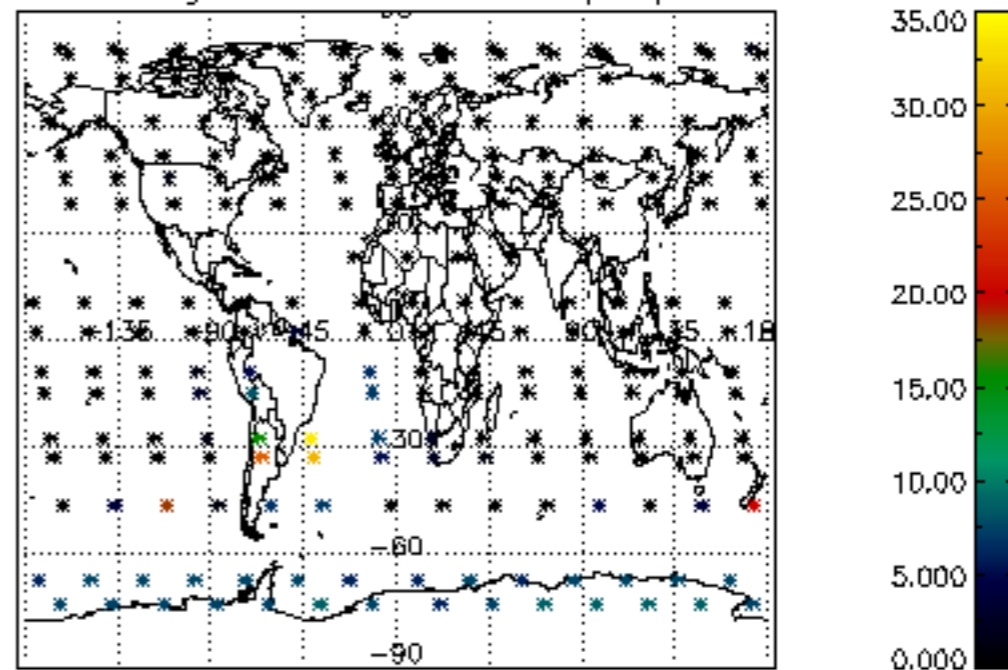
Percentage of datation errors per profile



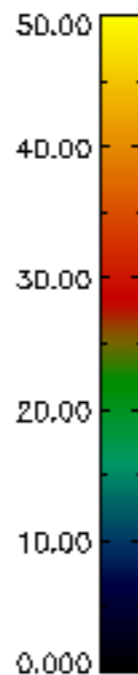
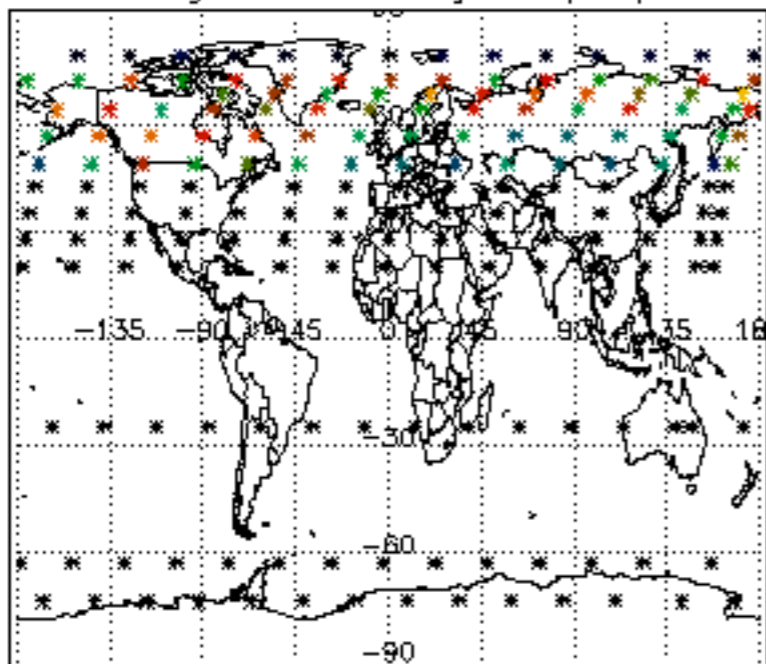
Percentage of star falling outside central band per profile



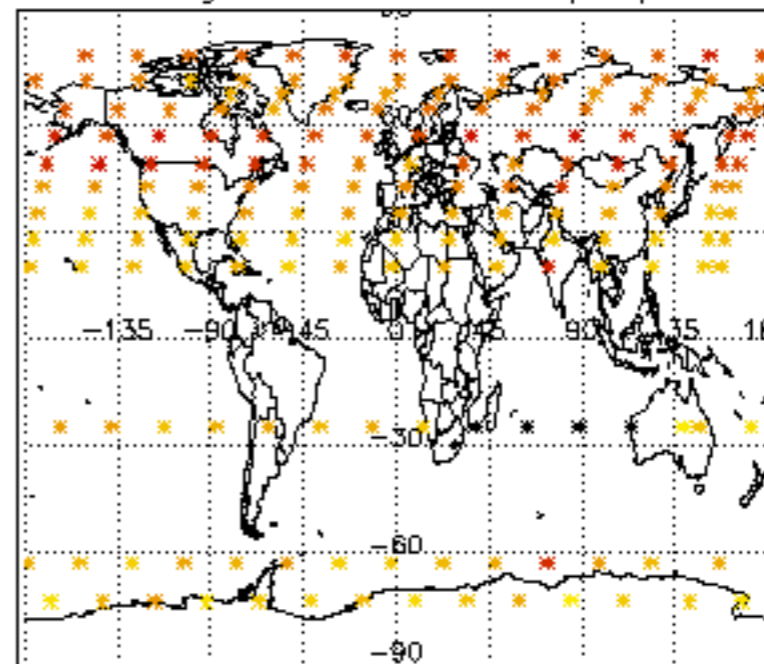
Percentage of saturation errors per profile



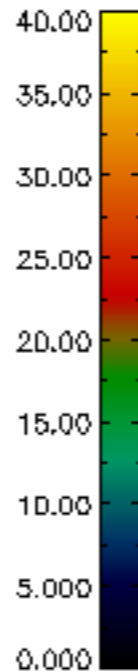
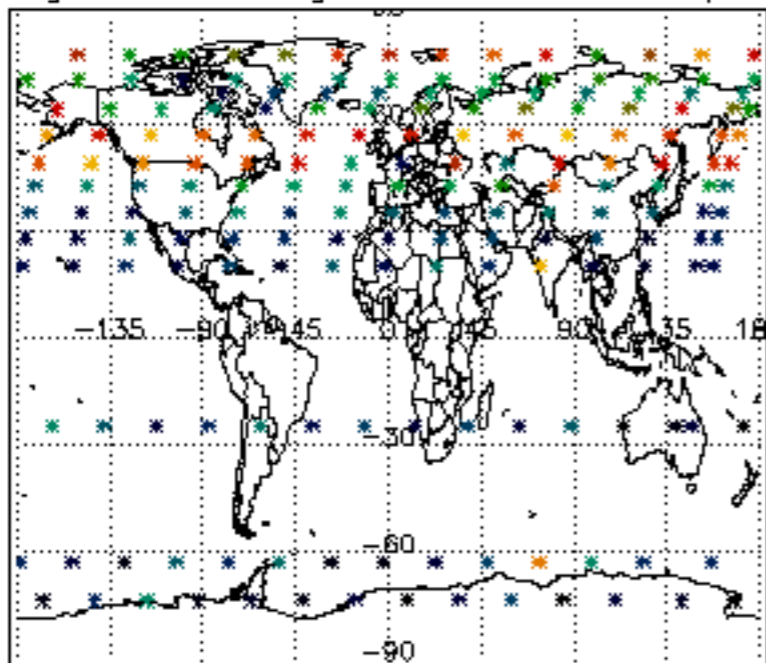
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

