

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	18APR2013 08:31:33
Data source version	GOMOS/6.01
Start time of products	04-01-2005 (04JAN2005 00:00:00)
Stop time of products	05-01-2005 (05JAN2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	488
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

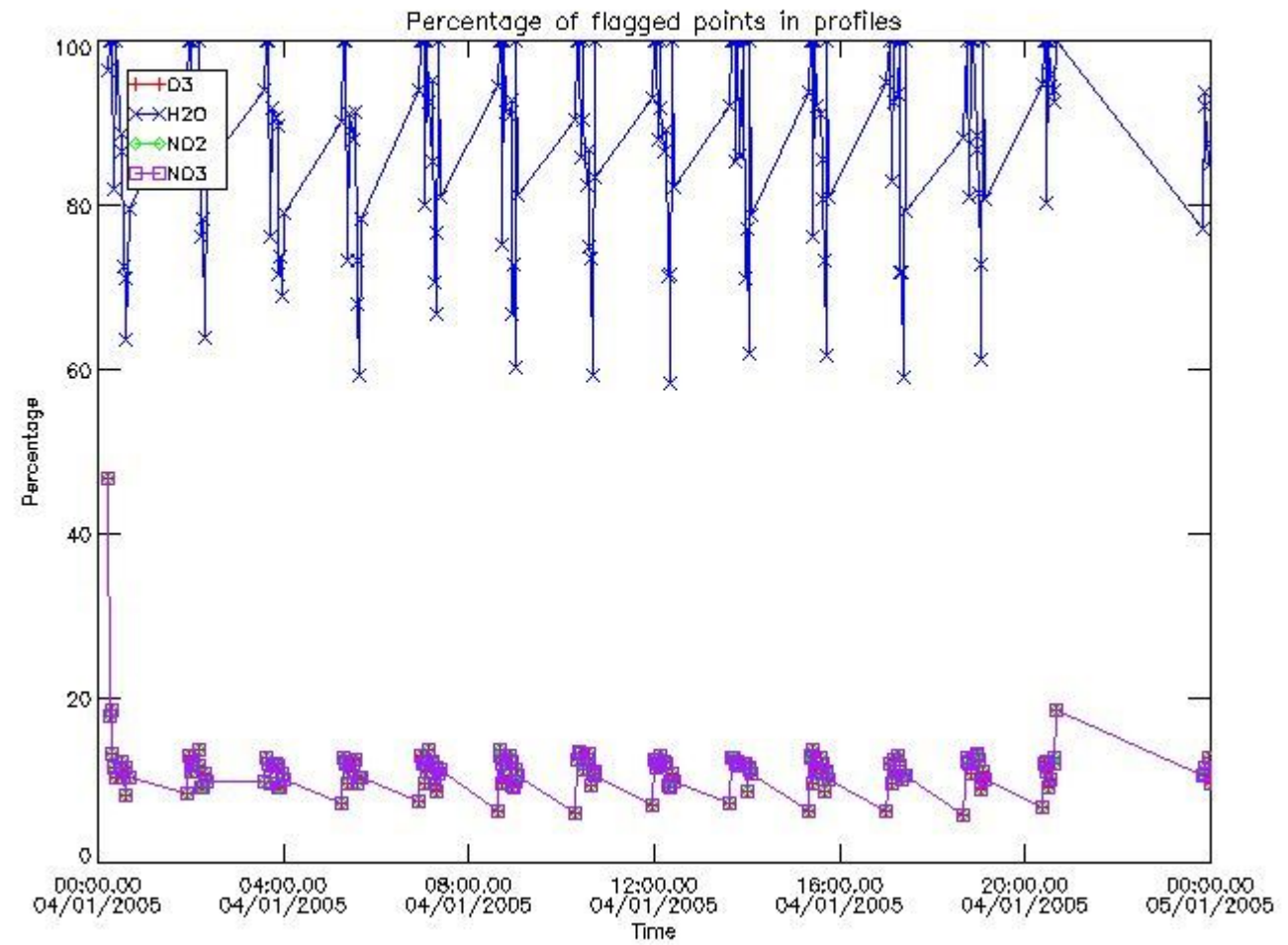
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20050104_000131_000000402033_00302_14885_8078.N1	04-JAN-2005 00:01:31	Bright	39.500	102	24Alp Ser	2.6000	4250.0	79	14885	No
2	GOM_NL__2PRFIN20050104_000348_000000392033_00302_14885_8079.N1	04-JAN-2005 00:03:48	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	14885	No
3	GOM_NL__2PRFIN20050104_000643_000000422033_00302_14885_8080.N1	04-JAN-2005 00:06:43	Bright	41.500	104	27Bet Lib	2.6140	13100.	83	14885	No
4	GOM_NL__2PRFIN20050104_000930_000000492033_00302_14885_8081.N1	04-JAN-2005 00:09:30	Twilight	48.500	122	9Alp2Lib	2.7470	9700.0	97	14885	No
5	GOM_NL__2PRFIN20050104_001336_000000702033_00302_14885_8082.N1	04-JAN-2005 00:13:36	Dark	70.000	15	67Alp Vir	0.97600	28000.	140	14885	No
6	GOM_NL__2PRFIN20050104_001601_000000432033_00302_14885_8083.N1	04-JAN-2005 00:16:01	Dark	42.500	109	Bet Lup	2.6770	26000.	85	14885	No
7	GOM_NL__2PRFIN20050104_001732_000000412033_00302_14885_8084.N1	04-JAN-2005 00:17:32	Dark	41.000	78	Alp Lup	2.3040	28000.	82	14885	No
8	GOM_NL__2PRFIN20050104_001909_000000432033_00302_14885_8085.N1	04-JAN-2005 00:19:09	Dark	42.500	95	Zet Cen	2.5450	26000.	85	14885	No
9	GOM_NL__2PRFIN20050104_002037_000000452033_00303_14886_7733.N1	04-JAN-2005 00:20:37	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	14886	No
10	GOM_NL__2PRFIN20050104_002336_000000502033_00303_14886_7734.N1	04-JAN-2005 00:23:36	Dark	49.500	20	Bet Cru	1.2530	30000.	99	14886	No
11	GOM_NL__2PRFIN20050104_002946_000000422033_00303_14886_7735.N1	04-JAN-2005 00:29:46	Dark	41.500	29	Bet Car	1.6720	10200.	83	14886	No
12	GOM_NL__2PRFIN20050104_003117_000000452033_00303_14886_7736.N1	04-JAN-2005 00:31:17	Dark	45.000	71	lot Car	2.2460	7700.0	90	14886	No
13	GOM_NL__2PRFIN20050104_003249_000000502033_00303_14886_7737.N1	04-JAN-2005 00:32:49	Dark	49.500	41	Eps Car	1.8600	4100.0	99	14886	No
14	GOM_NL__2PRFIN20050104_003501_000000632033_00303_14886_7738.N1	04-JAN-2005 00:35:01	Dark	62.500	65	Lam Vel	2.2040	4400.0	125	14886	No
15	GOM_NL__2PRFIN20050104_003654_000000452033_00303_14886_7739.N1	04-JAN-2005 00:36:54	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	14886	No
16	GOM_NL__2PRFIN20050104_004012_000000502033_00303_14886_7740.N1	04-JAN-2005 00:40:12	Dark	49.500	117	Pi Pup	2.7060	3800.0	99	14886	No
17	GOM_NL__2PRFIN20050104_004255_000000512033_00303_14886_7741.N1	04-JAN-2005 00:42:55	Straylight	50.500	23	21Eps CMa	1.5020	26000.	101	14886	No
18	GOM_NL__2PRFIN20050104_004427_000000472033_00303_14886_7742.N1	04-JAN-2005 00:44:27	Straylight	46.500	179	24Omi2CMa	3.0320	24000.	93	14886	No
19	GOM_NL__2PRFIN20050104_004650_000000512033_00303_14886_7743.N1	04-JAN-2005 00:46:50	Straylight	50.500	1	9Alp CMa	-1.4400	11000.	101	14886	No
20	GOM_NL__2PRFIN20050104_004959_000000492033_00303_14886_7744.N1	04-JAN-2005 00:49:59	Straylight	49.000	7	19Bet Ori	0.10000	14000.	98	14886	No
21	GOM_NL__2PRFIN20050104_005145_000000472033_00303_14886_7745.N1	04-JAN-2005 00:51:45	Straylight	47.000	30	46Eps Ori	1.6940	30000.	94	14886	No
22	GOM_NL__2PRFIN20050104_005452_000000772033_00303_14886_7746.N1	04-JAN-2005 00:54:52	Twilight	77.000	8	10Alp CMi	0.40000	6500.0	154	14886	No
23	GOM_NL__2PRFIN20050104_005716_000000502033_00303_14886_7747.N1	04-JAN-2005 00:57:16	Twilight	49.500	44	24Gam Gem	1.9280	11000.	99	14886	No
24	GOM_NL__2PRFIN20050104_005855_000000502033_00303_14886_7748.N1	04-JAN-2005 00:58:55	Bright	49.500	151	13Mu Gem	2.8900	3000.0	99	14886	No
25	GOM_NL__2PRFIN20050104_010135_000000412033_00303_14886_7749.N1	04-JAN-2005 01:01:35	Bright	40.500	114	3lot Aur	2.6930	4600.0	81	14886	No
26	GOM_NL__2PRFIN20050104_010257_000000412033_00303_14886_7750.N1	04-JAN-2005 01:02:57	Bright	41.000	107	37The Aur	2.6490	11000.	82	14886	No
27	GOM_NL__2PRFIN20050104_010510_000000472033_00303_14886_7751.N1	04-JAN-2005 01:05:10	Bright	46.500	6	13Alp Aur	0.080000	3400.0	93	14886	No
28	GOM_NL__2PRFIN20050104_010718_000000382033_00303_14886_7752.N1	04-JAN-2005 01:07:18	Bright	37.500	35	33Alp Per	1.7950	6250.0	75	14886	No
29	GOM_NL__2PRFIN20050104_010836_000000382033_00303_14886_7753.N1	04-JAN-2005 01:08:36	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	14886	No
30	GOM_NL__2PRFIN20050104_011726_000000352033_00303_14886_7754.N1	04-JAN-2005 01:17:26	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	14886	No
31	GOM_NL__2PRFIN20050104_011948_000000512033_00303_14886_7755.N1	04-JAN-2005 01:19:48	Bright	50.500	36	50Alp UMa	1.8000	6300.0	101	14886	No
32	GOM_NL__2PRFIN20050104_012149_000000402033_00303_14886_7756.N1	04-JAN-2005 01:21:49	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	14886	No
33	GOM_NL__2PRFIN20050104_012351_000000562033_00303_14886_7757.N1	04-JAN-2005 01:23:51	Bright	55.500	87	64Gam UMa	2.4330	11000.	111	14886	No
34	GOM_NL__2PRFIN20050104_012618_000000682033_00303_14886_7758.N1	04-JAN-2005 01:26:18	Bright	68.000	55	79Zet UMa	2.0600	10200.	136	14886	No
35	GOM_NL__2PRFIN20050104_012841_000000472033_00303_14886_7759.N1	04-JAN-2005 01:28:41	Bright	46.500	39	85Eta UMa	1.8540	24000.	93	14886	No
36	GOM_NL__2PRFIN20050104_013237_000000672033_00303_14886_7760.N1	04-JAN-2005 01:32:37	Bright	66.500	152	12Alp2CVn	2.8900	11000.	133	14886	No
37	GOM_NL__2PRFIN20050104_013648_000000472033_00303_14886_7761.N1	04-JAN-2005 01:36:48	Bright	47.000	83		2.3780	11000.	94	14886	No
38	GOM_NL__2PRFIN20050104_014016_000000602033_00303_14886_7762.N1	04-JAN-2005 01:40:16	Bright	59.500	3	16Alp Boo	-0.050000	4250.0	119	14886	No
39	GOM_NL__2PRFIN20050104_014208_000000402033_00303_14886_7763.N1	04-JAN-2005 01:42:08	Bright	40.000	102	24Alp Ser	2.6000	4250.0	80	14886	No
40	GOM_NL__2PRFIN20050104_014424_000000522033_00303_14886_7764.N1	04-JAN-2005 01:44:24	Bright	51.500	120	1Del Oph	2.7340	3200.0	103	14886	No
41	GOM_NL__2PRFIN20050104_014719_000000422033_00303_14886_7765.N1	04-JAN-2005 01:47:19	Bright	41.500	104	27Bet Lib	2.6140	13100.	83	14886	No
42	GOM_NL__2PRFIN20050104_015414_000000722033_00303_14886_7766.N1	04-JAN-2005 01:54:14	Dark	71.500	15	67Alp Vir	0.97600	28000.	143	14886	No

456	GOM_NL__2PRFIN20050104_192654_000000372033_00314_14897_7527.N1	04-JAN-2005 19:26:54	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	14897	No
457	GOM_NL__2PRFIN20050104_192814_000000382033_00314_14897_7528.N1	04-JAN-2005 19:28:14	Bright	37.500	114	31ot Aur	2.6930	4600.0	75	14897	No
458	GOM_NL__2PRFIN20050104_192933_000000402033_00314_14897_7529.N1	04-JAN-2005 19:29:33	Bright	39.500	107	37The Aur	2.6490	11000.	79	14897	No
459	GOM_NL__2PRFIN20050104_193148_000000422033_00314_14897_7530.N1	04-JAN-2005 19:31:48	Bright	41.500	6	13Alp Aur	0.080000	3400.0	83	14897	No
460	GOM_NL__2PRFIN20050104_193357_000000402033_00314_14897_7531.N1	04-JAN-2005 19:33:57	Bright	40.000	35	33Alp Per	1.7950	6250.0	80	14897	No
461	GOM_NL__2PRFIN20050104_193516_000000372033_00314_14897_7532.N1	04-JAN-2005 19:35:16	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	14897	No
462	GOM_NL__2PRFIN20050104_194402_000000372033_00314_14897_7533.N1	04-JAN-2005 19:44:02	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	14897	No
463	GOM_NL__2PRFIN20050104_194616_000000512033_00314_14897_7534.N1	04-JAN-2005 19:46:16	Bright	51.000	36	50Alp UMa	1.8000	6300.0	102	14897	No
464	GOM_NL__2PRFIN20050104_194823_000000402033_00314_14897_7535.N1	04-JAN-2005 19:48:23	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	14897	No
465	GOM_NL__2PRFIN20050104_195017_000000572033_00314_14897_7536.N1	04-JAN-2005 19:50:17	Bright	57.000	87	64Gam UMa	2.4330	11000.	114	14897	No
466	GOM_NL__2PRFIN20050104_195222_000000392033_00314_14897_7537.N1	04-JAN-2005 19:52:22	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	14897	No
467	GOM_NL__2PRFIN20050104_195437_000000372033_00314_14897_7538.N1	04-JAN-2005 19:54:37	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	14897	No
468	GOM_NL__2PRFIN20050104_195932_000000462033_00314_14897_7539.N1	04-JAN-2005 19:59:32	Bright	46.000	180	27Gam Boo	3.0400	8000.0	92	14897	No
469	GOM_NL__2PRFIN20050104_200325_000000462033_00314_14897_7540.N1	04-JAN-2005 20:03:25	Bright	46.000	83		2.3780	11000.	92	14897	No
470	GOM_NL__2PRFIN20050104_200536_000000362033_00314_14897_7541.N1	04-JAN-2005 20:05:36	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	14897	No
471	GOM_NL__2PRFIN20050104_200759_000000642033_00314_14897_7542.N1	04-JAN-2005 20:07:59	Bright	63.500	111	8Eta Boo	2.6800	6000.0	127	14897	No
472	GOM_NL__2PRFIN20050104_201104_000000382033_00314_14897_7543.N1	04-JAN-2005 20:11:04	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	14897	No
473	GOM_NL__2PRFIN20050104_201401_000000432033_00314_14897_7544.N1	04-JAN-2005 20:14:01	Bright	42.500	104	27Bet Lib	2.6140	13100.	85	14897	No
474	GOM_NL__2PRFIN20050104_201629_000000452033_00314_14897_7545.N1	04-JAN-2005 20:16:29	Bright	45.000	80	7Del Sco	2.3160	30000.	90	14897	No
475	GOM_NL__2PRFIN20050104_202106_000000762033_00314_14897_7546.N1	04-JAN-2005 20:21:06	Dark	76.000	15	67Alp Vir	0.97600	28000.	152	14897	No
476	GOM_NL__2PRFIN20050104_202451_000000422033_00314_14897_7547.N1	04-JAN-2005 20:24:51	Dark	42.000	78	Alp Lup	2.3040	28000.	84	14897	No
477	GOM_NL__2PRFIN20050104_202629_000000422033_00314_14897_7548.N1	04-JAN-2005 20:26:29	Dark	41.500	95	Zet Cen	2.5450	26000.	83	14897	No
478	GOM_NL__2PRFIN20050104_202753_000000462033_00315_14898_7510.N1	04-JAN-2005 20:27:53	Dark	46.000	4	Alp1Cen	-0.010000	5800.0	92	14898	No
479	GOM_NL__2PRFIN20050104_203009_000000552033_00315_14898_7511.N1	04-JAN-2005 20:30:09	Dark	55.000	64	Gam Cen	2.2000	10600.	110	14898	No
480	GOM_NL__2PRFIN20050104_203154_000000502033_00315_14898_7512.N1	04-JAN-2005 20:31:54	Dark	50.000	12	Alp1Cru	0.77500	30000.	100	14898	No
481	GOM_NL__2PRFIN20050104_203703_000000402033_00315_14898_7513.N1	04-JAN-2005 20:37:03	Dark	40.000	29	Bet Car	1.6720	10200.	80	14898	No
482	GOM_NL__2PRFIN20050104_203836_000000432033_00315_14898_7514.N1	04-JAN-2005 20:38:36	Dark	42.500	71	lot Car	2.2460	7700.0	85	14898	No
483	GOM_NL__2PRFIN20050104_204005_000000272033_00315_14898_7515.N1	04-JAN-2005 20:40:05	Dark	27.000	41	Eps Car	1.8600	4100.0	54	14898	No
484	GOM_NL__2PRFIN20050104_234905_000000532033_00317_14900_8039.N1	04-JAN-2005 23:49:05	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	14900	No
485	GOM_NL__2PRFIN20050104_235122_000000482033_00317_14900_8040.N1	04-JAN-2005 23:51:22	Dark	47.500	64	Gam Cen	2.2000	10600.	95	14900	No
486	GOM_NL__2PRFIN20050104_235304_000000452033_00317_14900_8041.N1	04-JAN-2005 23:53:04	Dark	44.500	12	Alp1Cru	0.77500	30000.	89	14900	No
487	GOM_NL__2PRFIN20050104_235815_000000402033_00317_14900_8042.N1	04-JAN-2005 23:58:15	Dark	40.000	29	Bet Car	1.6720	10200.	80	14900	No
488	GOM_NL__2PRFIN20050104_235946_000000532033_00317_14900_8043.N1	04-JAN-2005 23:59:46	Dark	52.500	71	lot Car	2.2460	7700.0	105	14900	No

3. Quality information per product

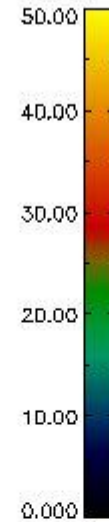
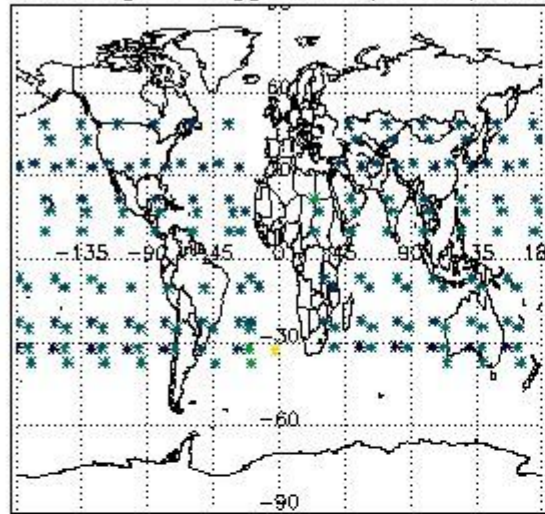
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

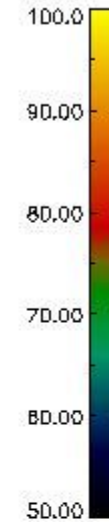
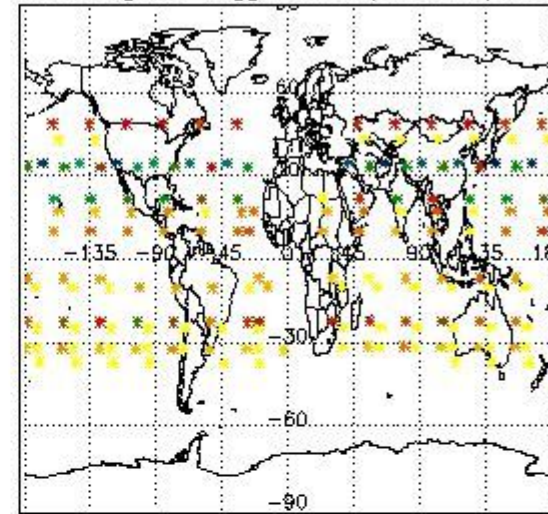


3.2 Plot quality information per product (world map)

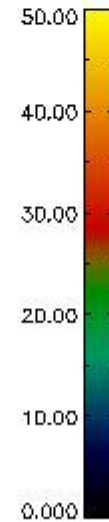
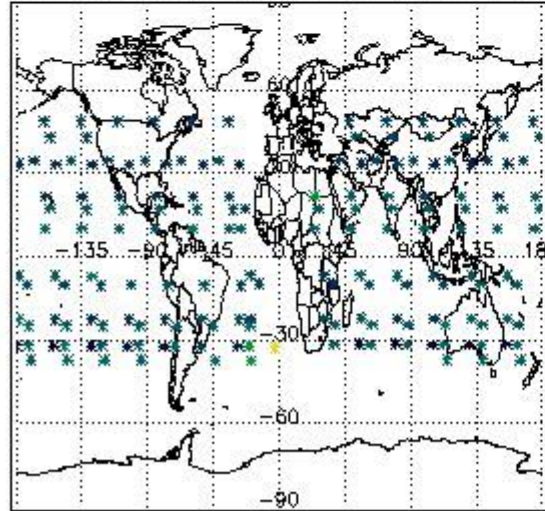
Percentage of flagged data per O3 profile



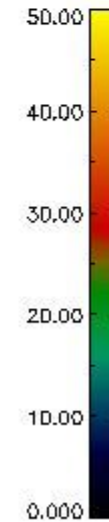
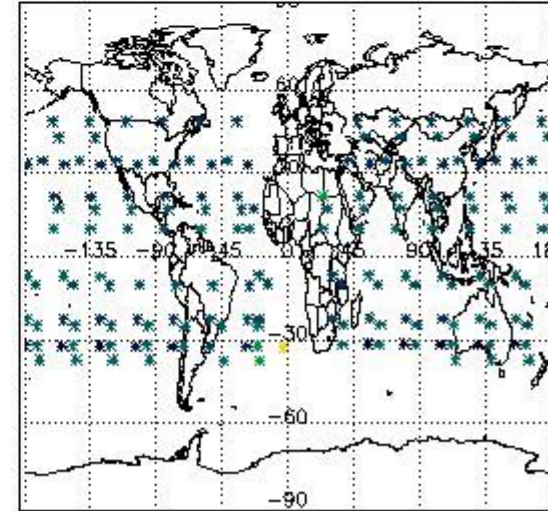
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

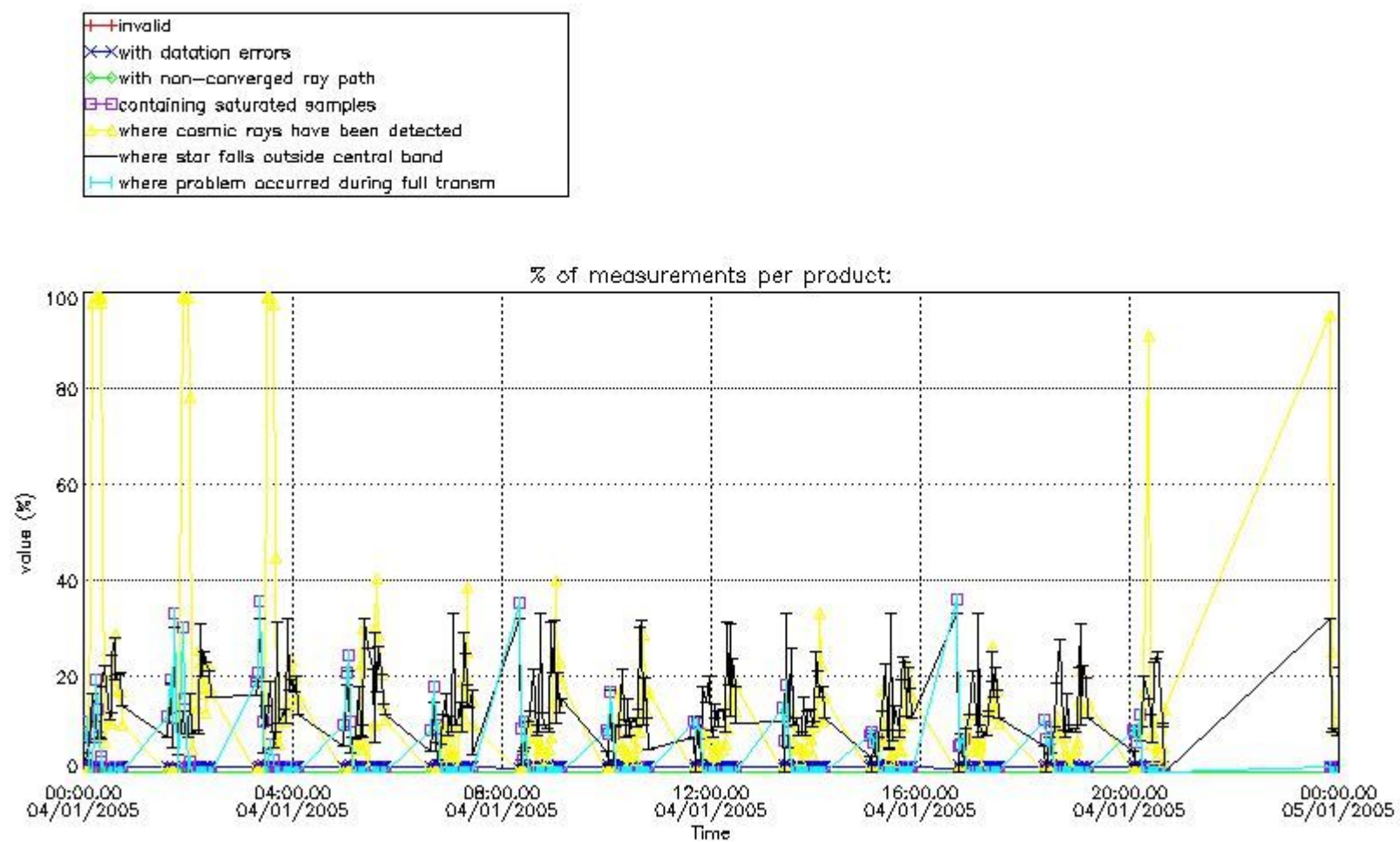


4. Level 1 quality information per product

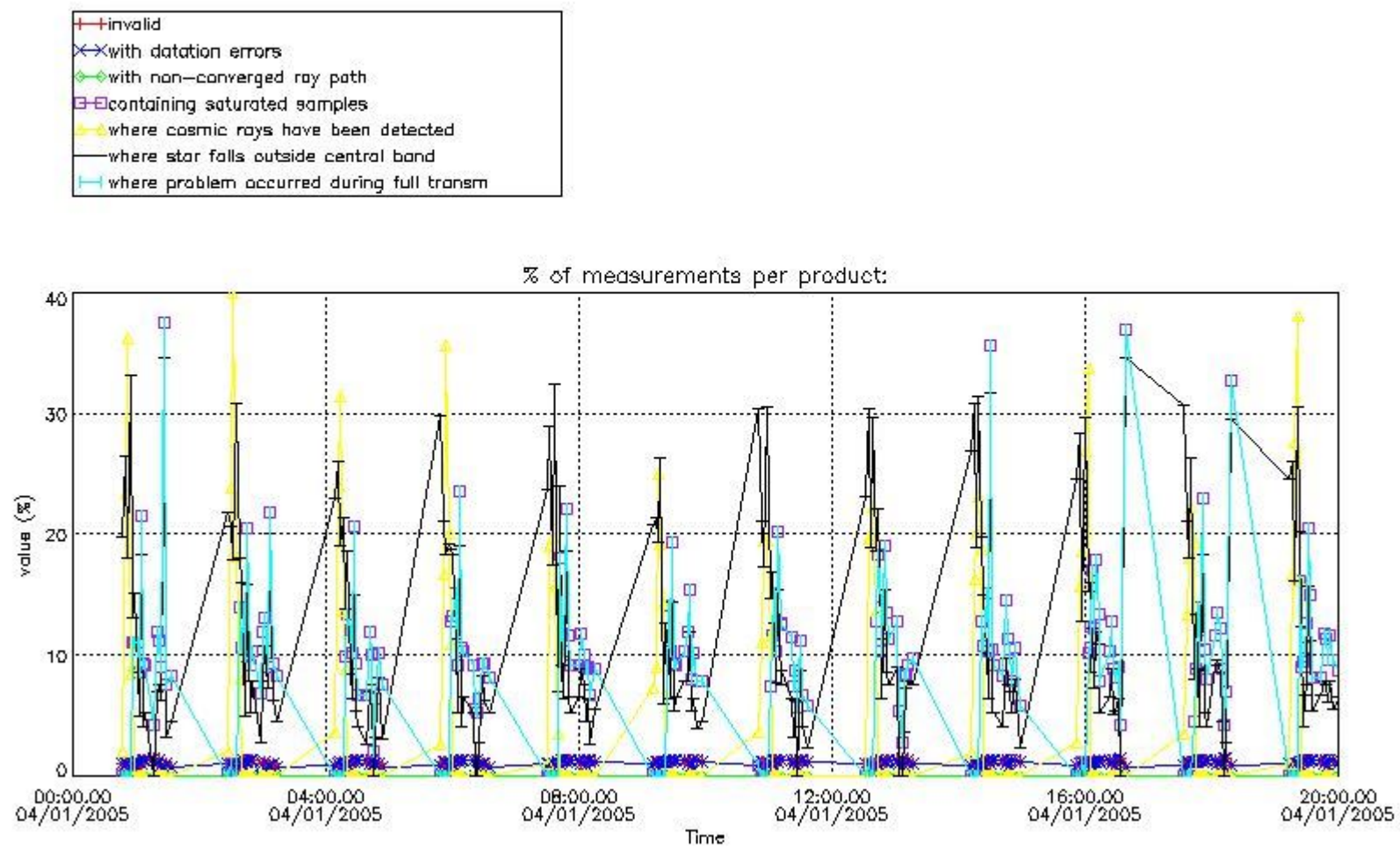
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



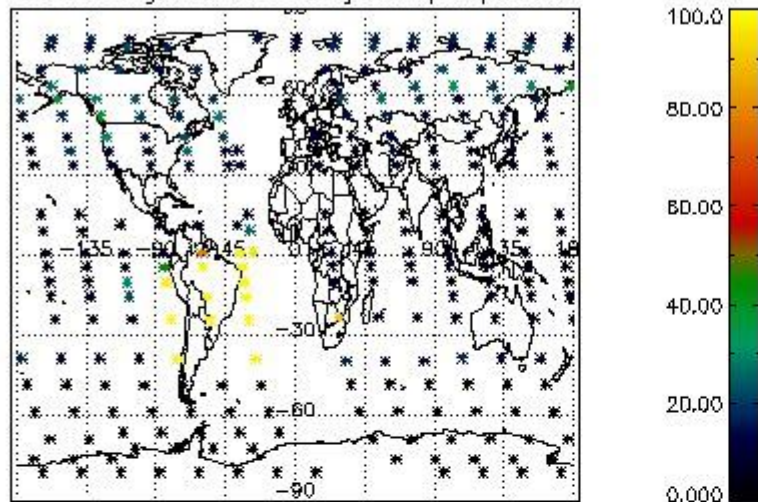
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



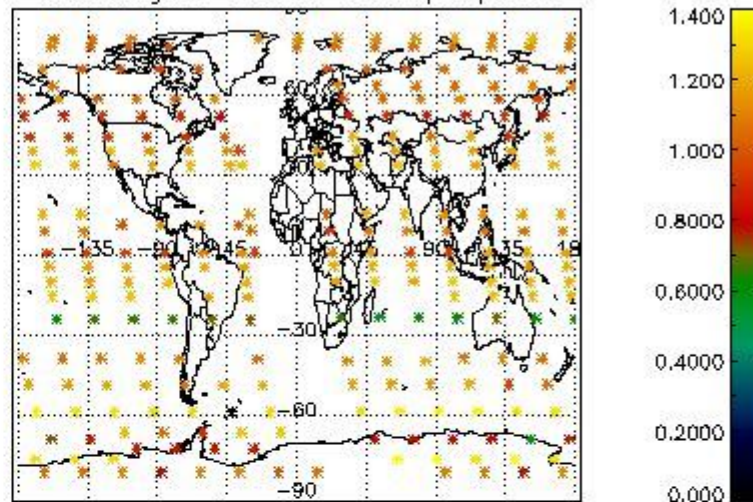
4.2 Plot quality information per product coming from level 1b processing (world map)

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

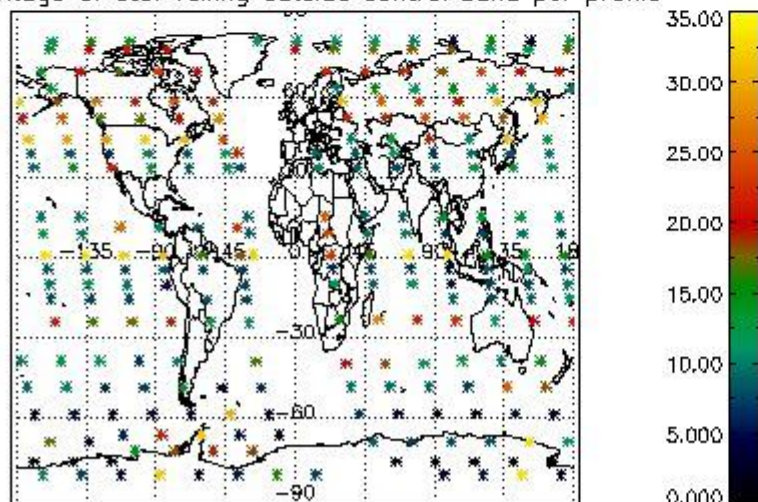
Percentage of cosmic ray hits per profile



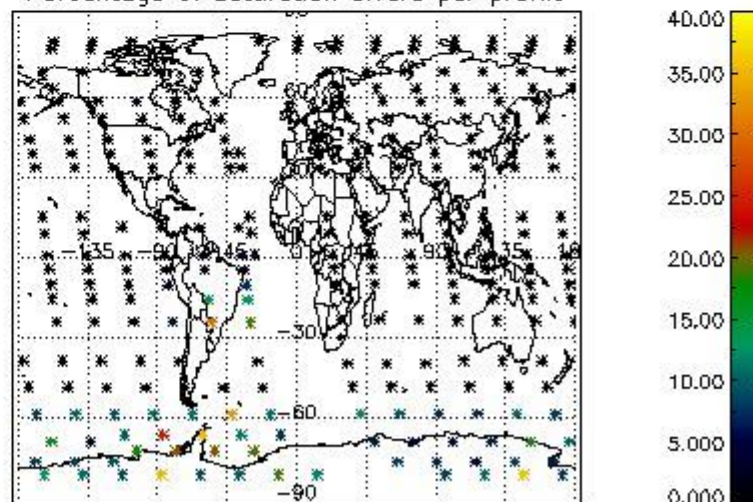
Percentage of datation errors per profile



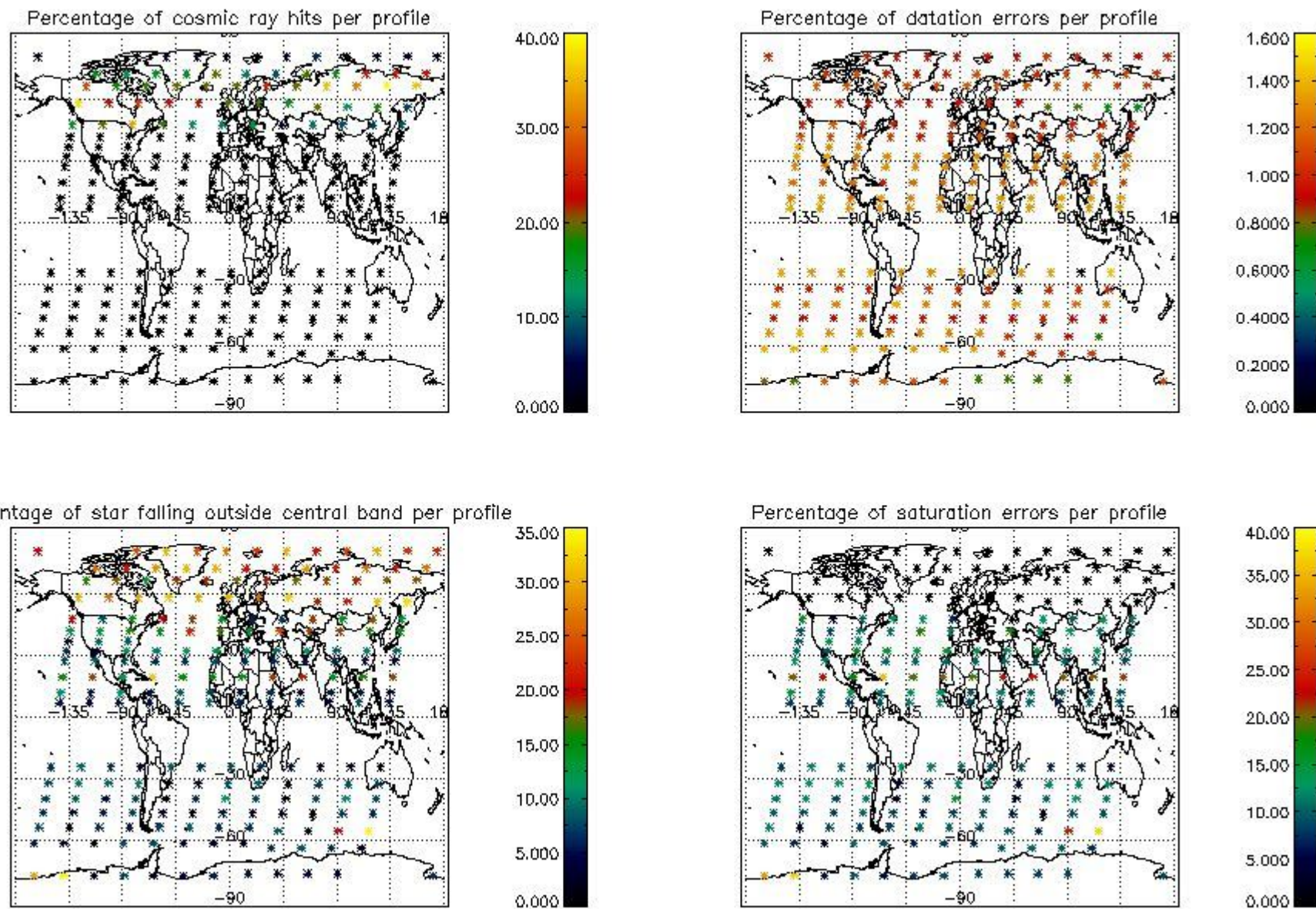
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

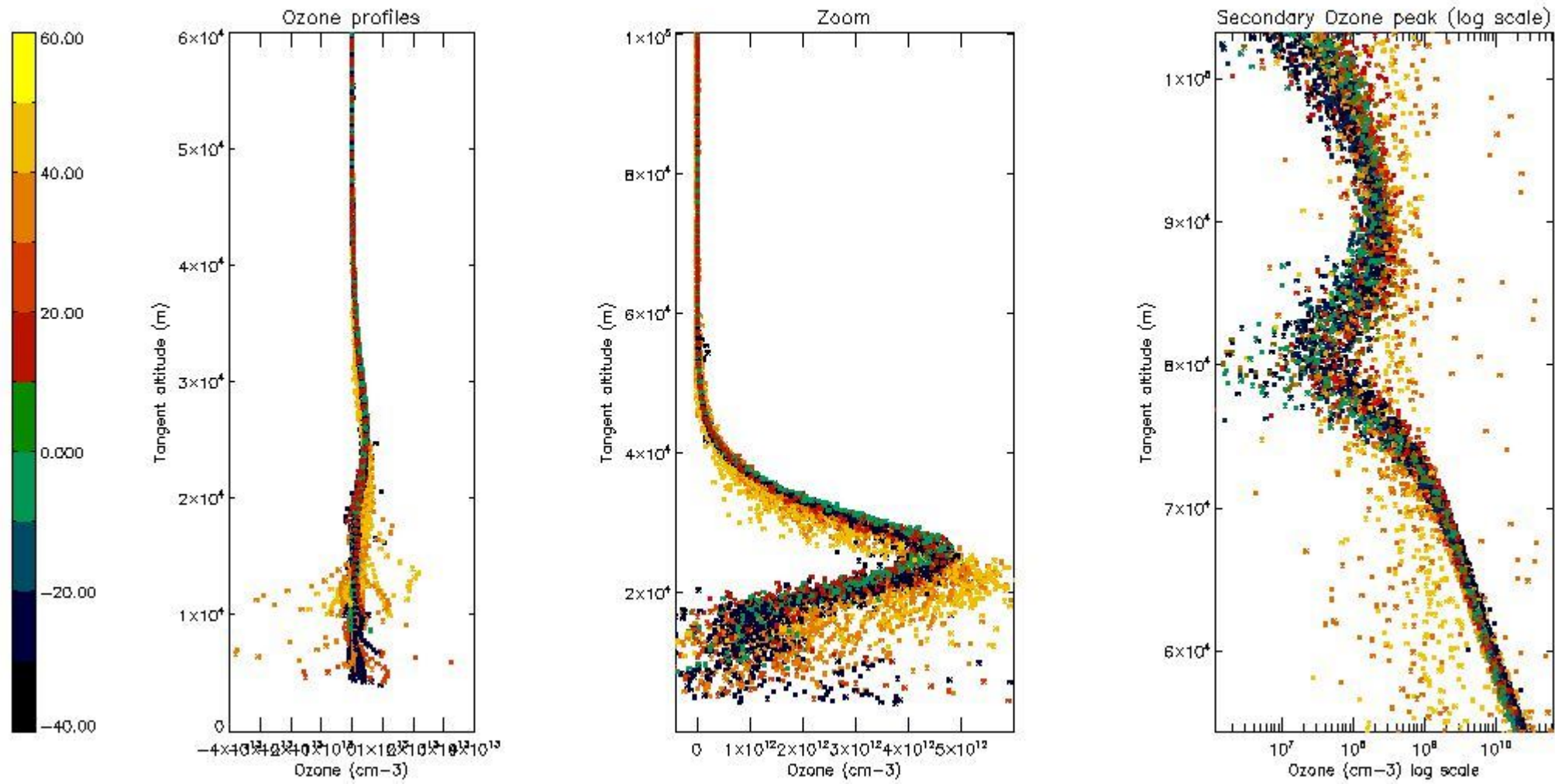
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	20

STD < 10	17
STD < 5	12

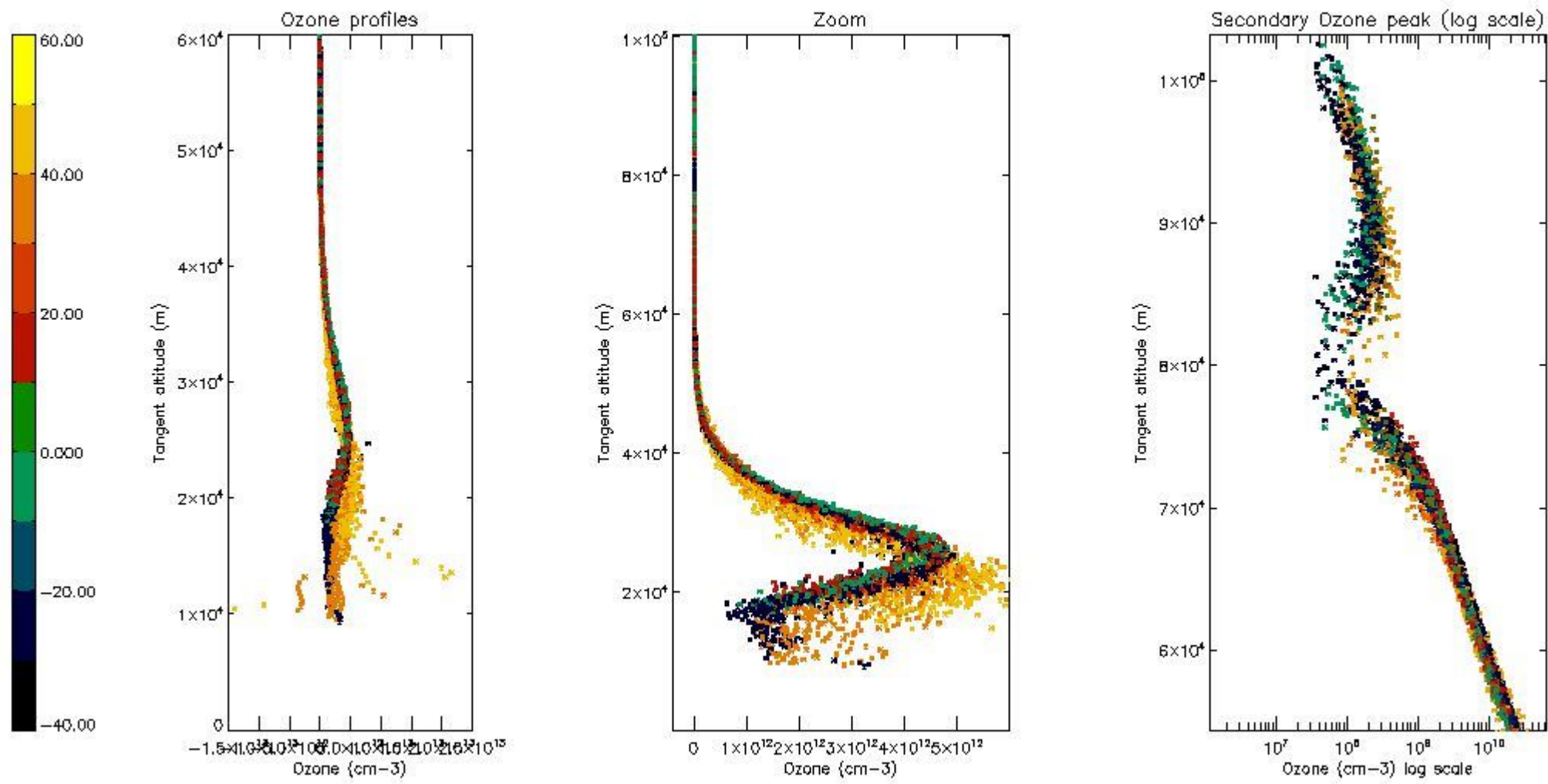
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



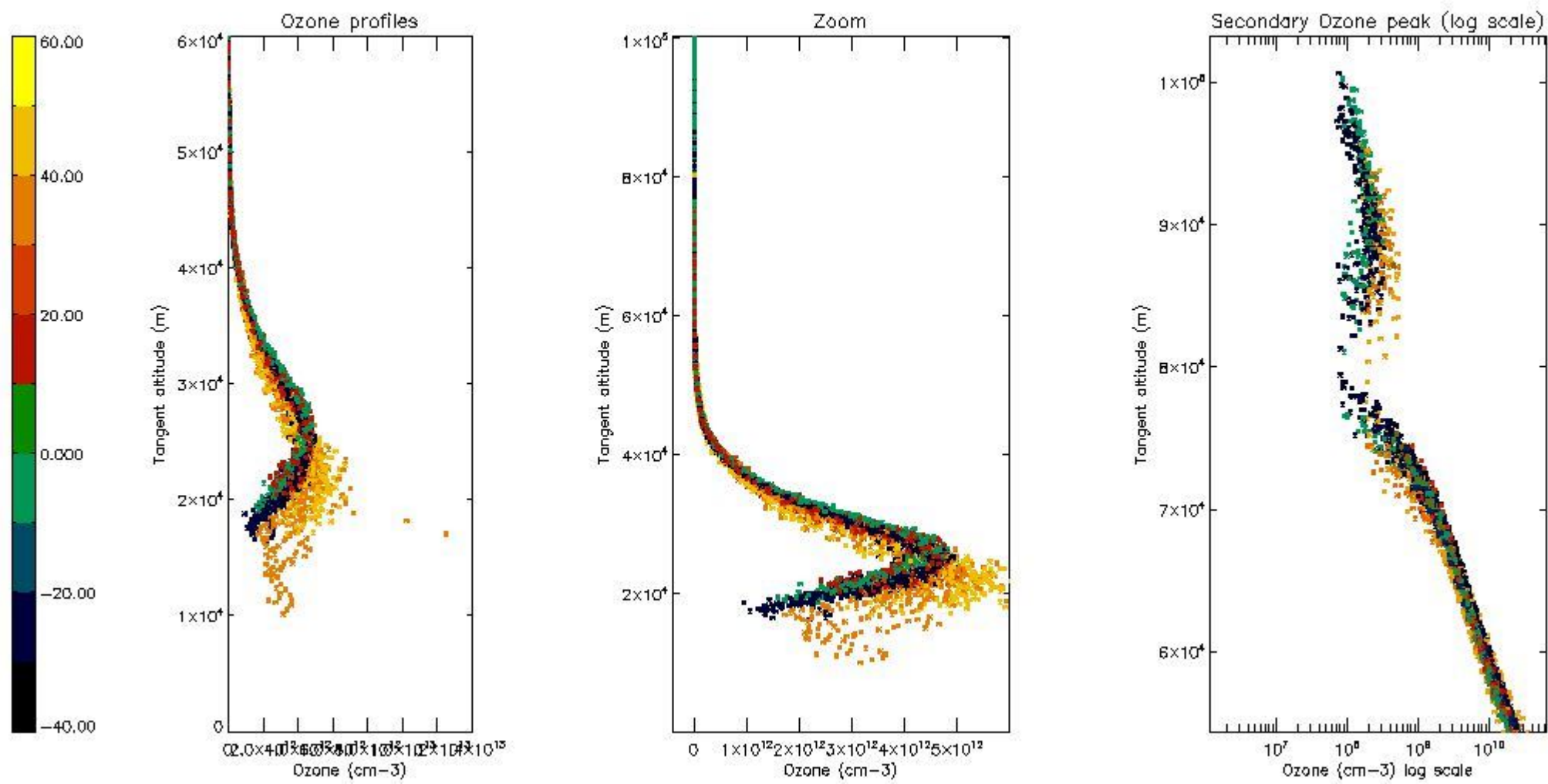
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



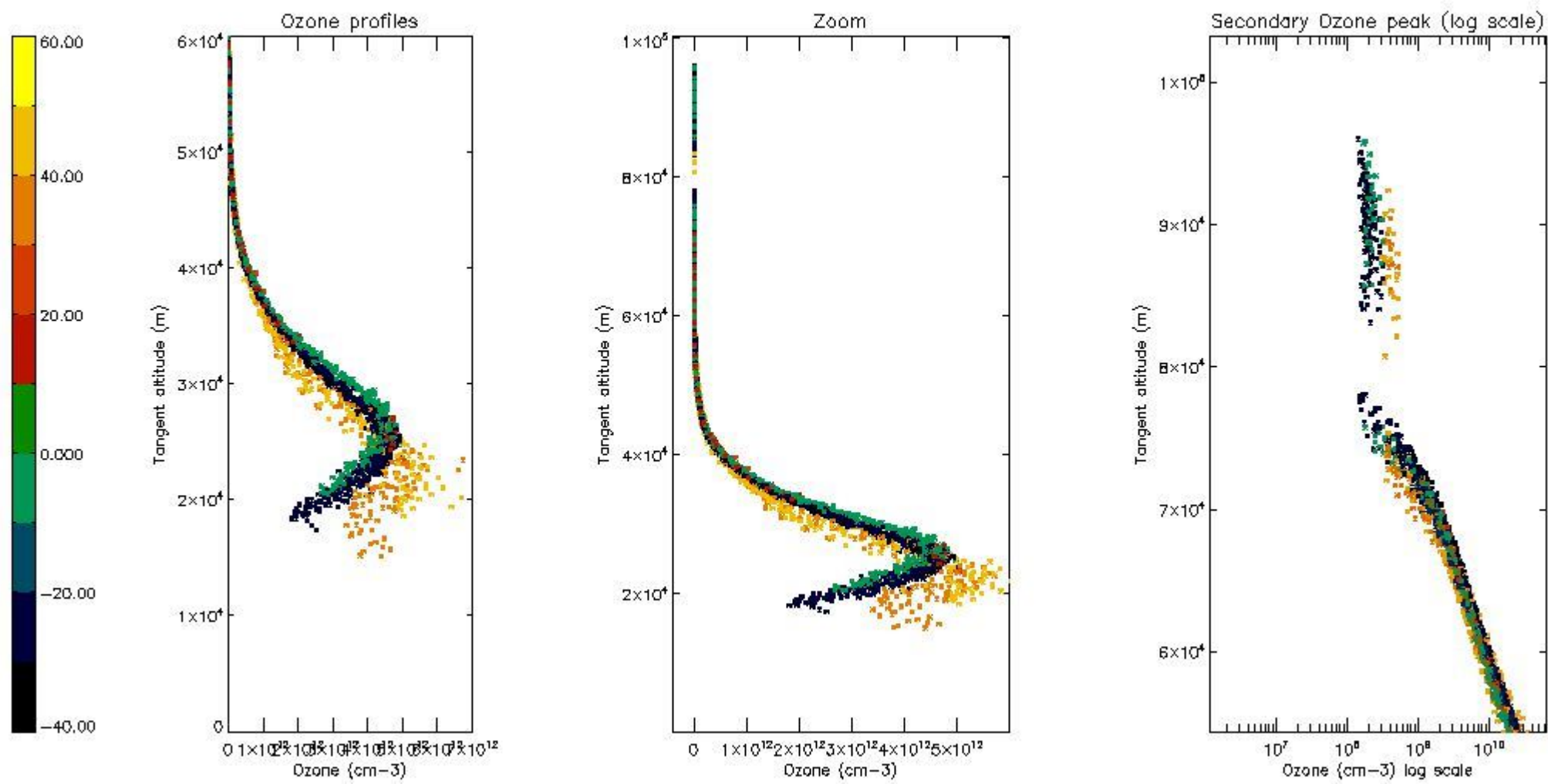
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



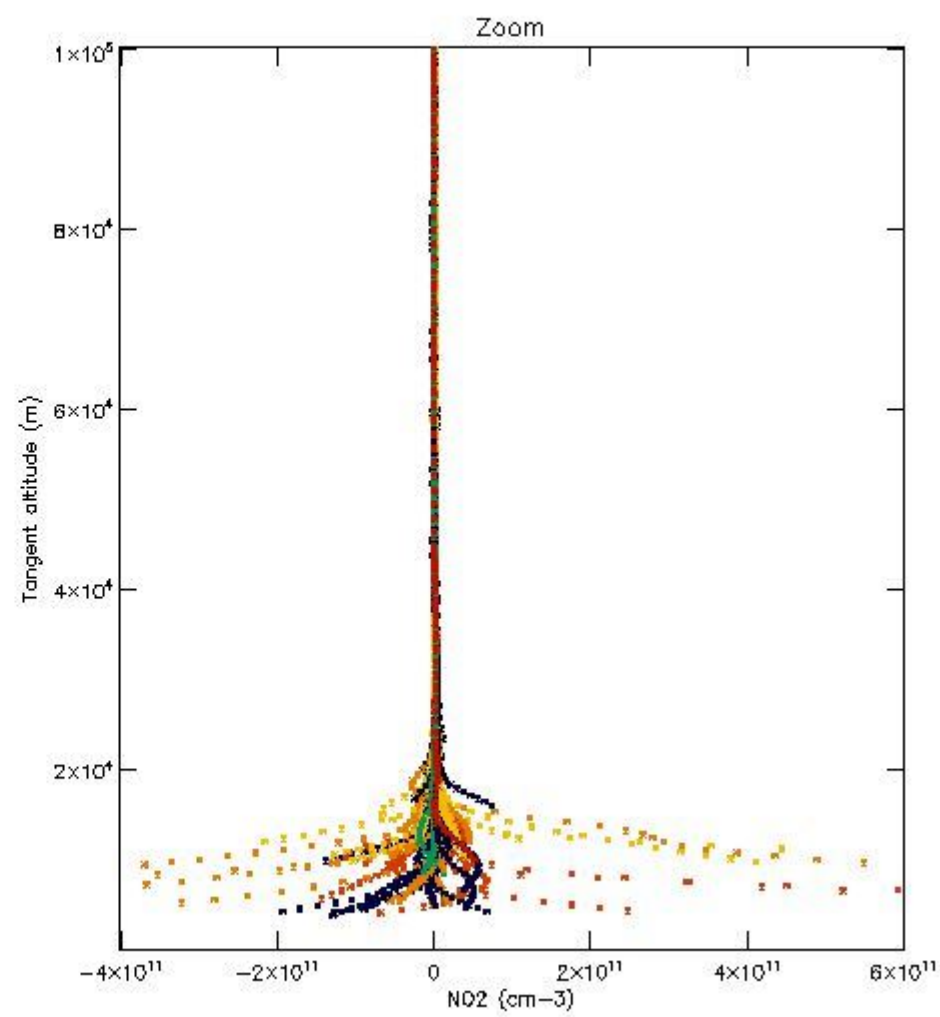
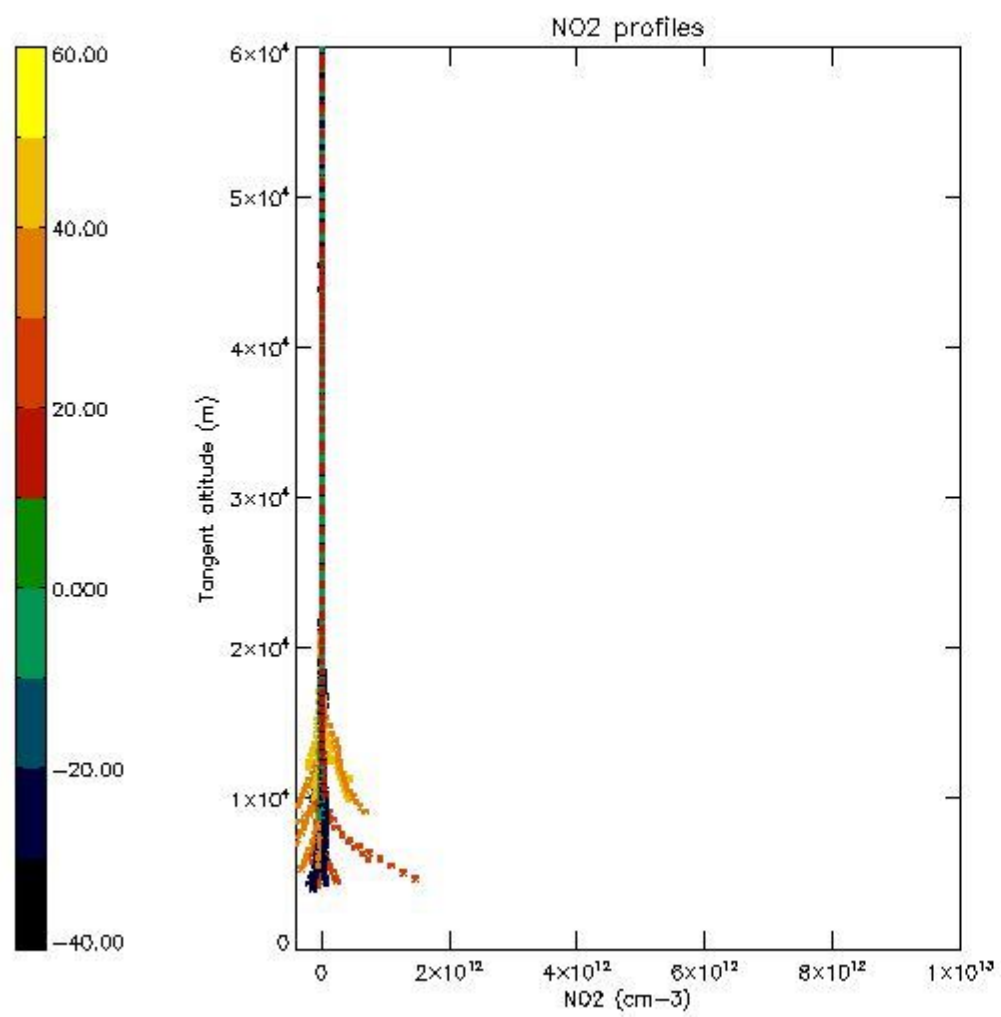
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



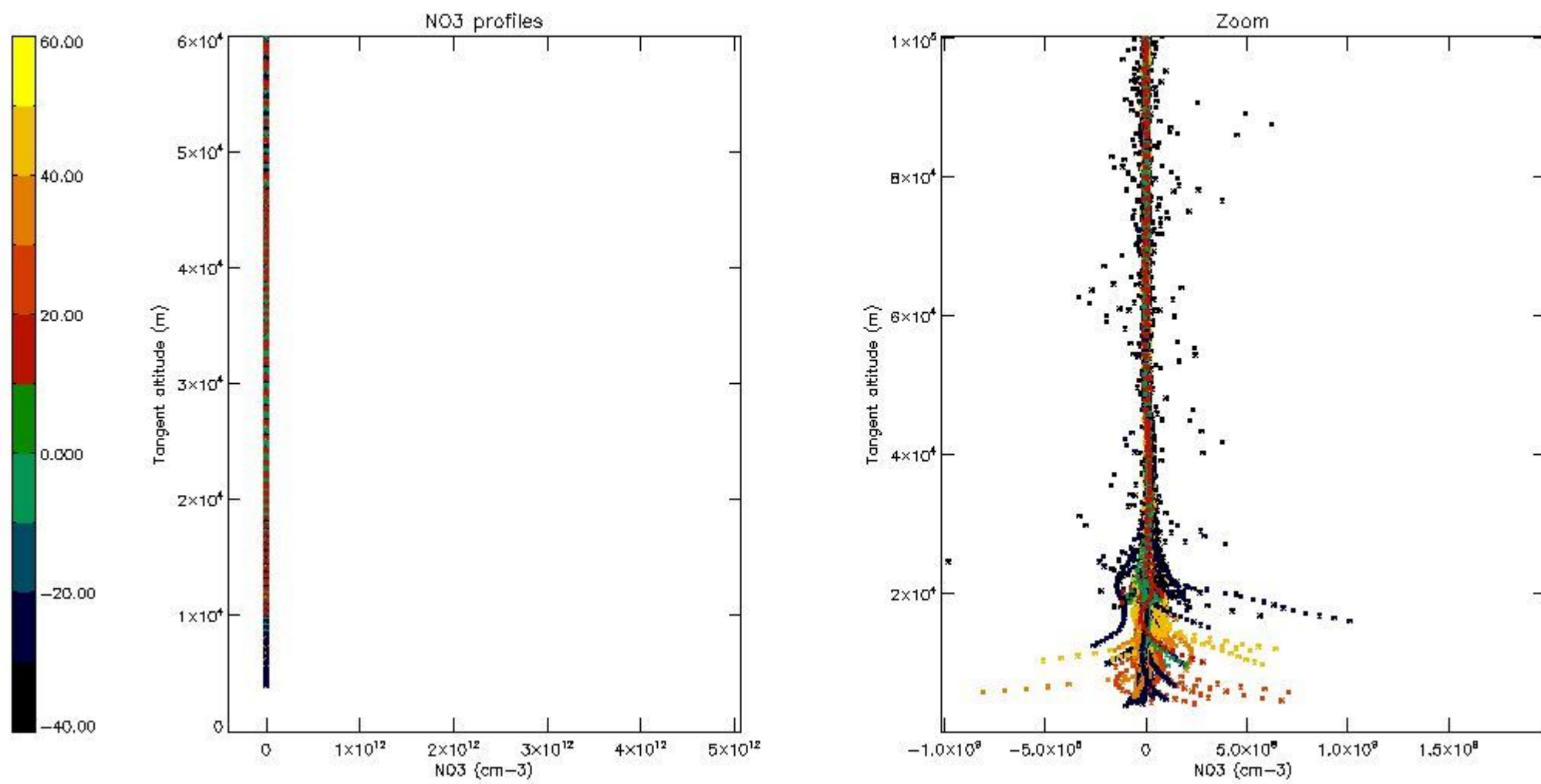
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



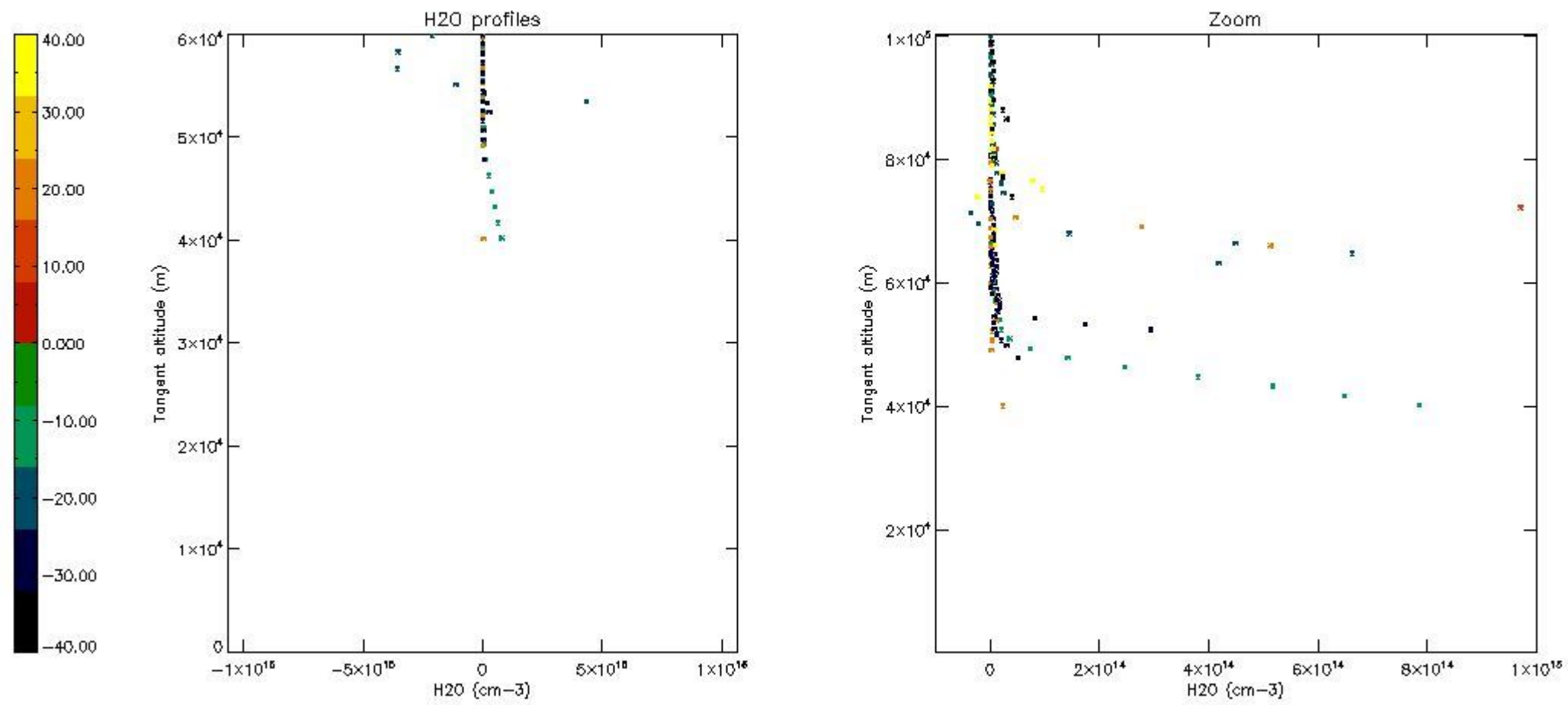
5.7 Plot NO3 profiles for all STD (dark without errors)

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	04-JAN-2005 00:01:31
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-JAN-2005 00:01:31
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-JAN-2005 00:01:31

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

[3. Level 2 Quality information per product](#)

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[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

[4.1 Plot of level 1 quality information per product \(time dependant\)](#)

[4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

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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. Ozone profiles based on quality statistics and other trace gas profiles](#)

[5.1 Ozone statistics based on quality of products](#)

[5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

[5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

[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	18APR2013 08:31:33
Data source version	GOMOS/6.01
Start time of products	04-01-2005 (04JAN2005 00:00:00)
Stop time of products	05-01-2005 (05JAN2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	488
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

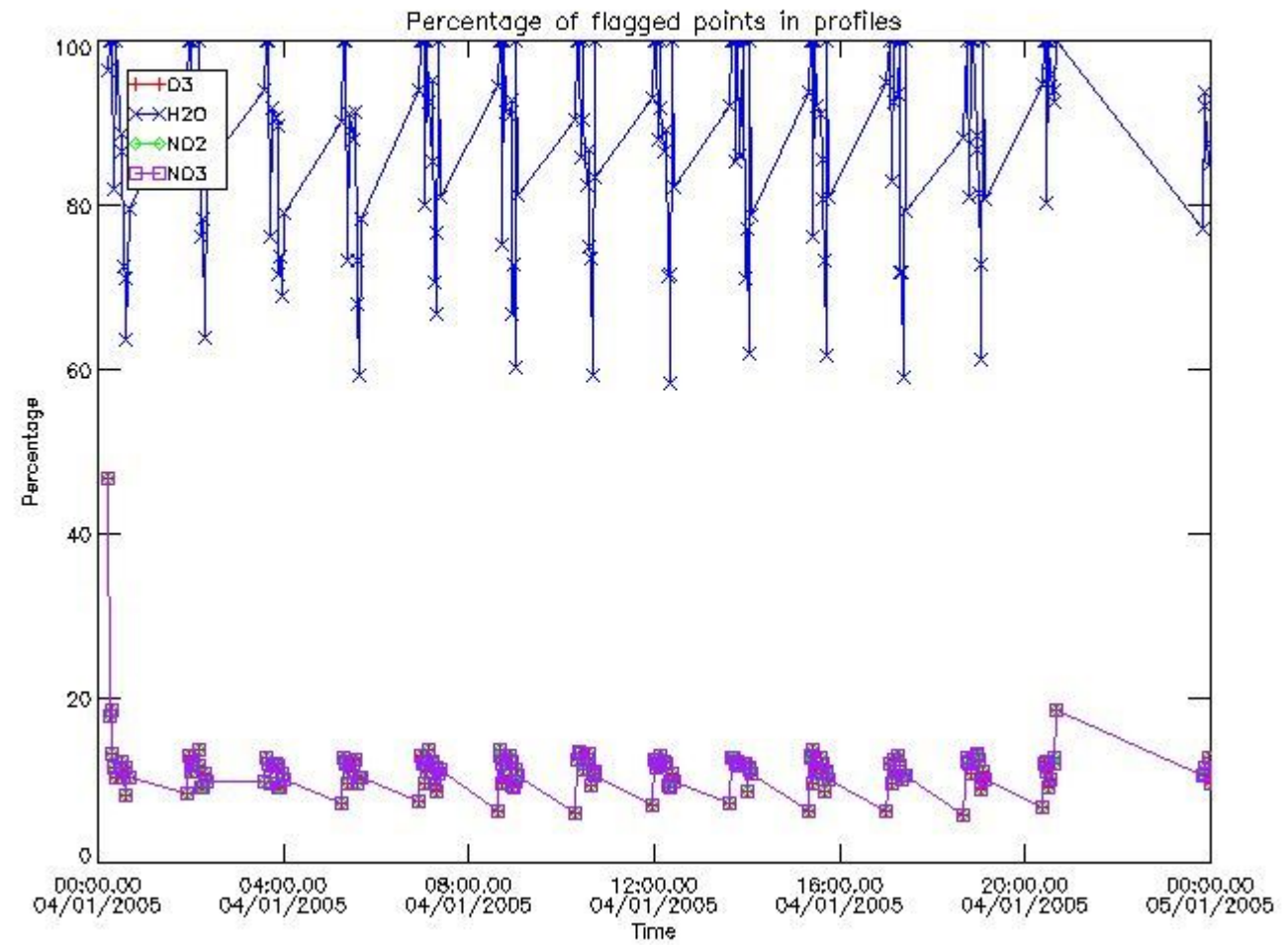
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20050104_000131_000000402033_00302_14885_8078.N1	04-JAN-2005 00:01:31	Bright	39.500	102	24Alp Ser	2.6000	4250.0	79	14885	No
2	GOM_NL__2PRFIN20050104_000348_000000392033_00302_14885_8079.N1	04-JAN-2005 00:03:48	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	14885	No
3	GOM_NL__2PRFIN20050104_000643_000000422033_00302_14885_8080.N1	04-JAN-2005 00:06:43	Bright	41.500	104	27Bet Lib	2.6140	13100.	83	14885	No
4	GOM_NL__2PRFIN20050104_000930_000000492033_00302_14885_8081.N1	04-JAN-2005 00:09:30	Twilight	48.500	122	9Alp2Lib	2.7470	9700.0	97	14885	No
5	GOM_NL__2PRFIN20050104_001336_000000702033_00302_14885_8082.N1	04-JAN-2005 00:13:36	Dark	70.000	15	67Alp Vir	0.97600	28000.	140	14885	No
6	GOM_NL__2PRFIN20050104_001601_000000432033_00302_14885_8083.N1	04-JAN-2005 00:16:01	Dark	42.500	109	Bet Lup	2.6770	26000.	85	14885	No
7	GOM_NL__2PRFIN20050104_001732_000000412033_00302_14885_8084.N1	04-JAN-2005 00:17:32	Dark	41.000	78	Alp Lup	2.3040	28000.	82	14885	No
8	GOM_NL__2PRFIN20050104_001909_000000432033_00302_14885_8085.N1	04-JAN-2005 00:19:09	Dark	42.500	95	Zet Cen	2.5450	26000.	85	14885	No
9	GOM_NL__2PRFIN20050104_002037_000000452033_00303_14886_7733.N1	04-JAN-2005 00:20:37	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	14886	No
10	GOM_NL__2PRFIN20050104_002336_000000502033_00303_14886_7734.N1	04-JAN-2005 00:23:36	Dark	49.500	20	Bet Cru	1.2530	30000.	99	14886	No
11	GOM_NL__2PRFIN20050104_002946_000000422033_00303_14886_7735.N1	04-JAN-2005 00:29:46	Dark	41.500	29	Bet Car	1.6720	10200.	83	14886	No
12	GOM_NL__2PRFIN20050104_003117_000000452033_00303_14886_7736.N1	04-JAN-2005 00:31:17	Dark	45.000	71	lot Car	2.2460	7700.0	90	14886	No
13	GOM_NL__2PRFIN20050104_003249_000000502033_00303_14886_7737.N1	04-JAN-2005 00:32:49	Dark	49.500	41	Eps Car	1.8600	4100.0	99	14886	No
14	GOM_NL__2PRFIN20050104_003501_000000632033_00303_14886_7738.N1	04-JAN-2005 00:35:01	Dark	62.500	65	Lam Vel	2.2040	4400.0	125	14886	No
15	GOM_NL__2PRFIN20050104_003654_000000452033_00303_14886_7739.N1	04-JAN-2005 00:36:54	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	14886	No
16	GOM_NL__2PRFIN20050104_004012_000000502033_00303_14886_7740.N1	04-JAN-2005 00:40:12	Dark	49.500	117	Pi Pup	2.7060	3800.0	99	14886	No
17	GOM_NL__2PRFIN20050104_004255_000000512033_00303_14886_7741.N1	04-JAN-2005 00:42:55	Straylight	50.500	23	21Eps CMa	1.5020	26000.	101	14886	No
18	GOM_NL__2PRFIN20050104_004427_000000472033_00303_14886_7742.N1	04-JAN-2005 00:44:27	Straylight	46.500	179	24Omi2CMa	3.0320	24000.	93	14886	No
19	GOM_NL__2PRFIN20050104_004650_000000512033_00303_14886_7743.N1	04-JAN-2005 00:46:50	Straylight	50.500	1	9Alp CMa	-1.4400	11000.	101	14886	No
20	GOM_NL__2PRFIN20050104_004959_000000492033_00303_14886_7744.N1	04-JAN-2005 00:49:59	Straylight	49.000	7	19Bet Ori	0.10000	14000.	98	14886	No
21	GOM_NL__2PRFIN20050104_005145_000000472033_00303_14886_7745.N1	04-JAN-2005 00:51:45	Straylight	47.000	30	46Eps Ori	1.6940	30000.	94	14886	No
22	GOM_NL__2PRFIN20050104_005452_000000772033_00303_14886_7746.N1	04-JAN-2005 00:54:52	Twilight	77.000	8	10Alp CMi	0.40000	6500.0	154	14886	No
23	GOM_NL__2PRFIN20050104_005716_000000502033_00303_14886_7747.N1	04-JAN-2005 00:57:16	Twilight	49.500	44	24Gam Gem	1.9280	11000.	99	14886	No
24	GOM_NL__2PRFIN20050104_005855_000000502033_00303_14886_7748.N1	04-JAN-2005 00:58:55	Bright	49.500	151	13Mu Gem	2.8900	3000.0	99	14886	No
25	GOM_NL__2PRFIN20050104_010135_000000412033_00303_14886_7749.N1	04-JAN-2005 01:01:35	Bright	40.500	114	3lot Aur	2.6930	4600.0	81	14886	No
26	GOM_NL__2PRFIN20050104_010257_000000412033_00303_14886_7750.N1	04-JAN-2005 01:02:57	Bright	41.000	107	37The Aur	2.6490	11000.	82	14886	No
27	GOM_NL__2PRFIN20050104_010510_000000472033_00303_14886_7751.N1	04-JAN-2005 01:05:10	Bright	46.500	6	13Alp Aur	0.080000	3400.0	93	14886	No
28	GOM_NL__2PRFIN20050104_010718_000000382033_00303_14886_7752.N1	04-JAN-2005 01:07:18	Bright	37.500	35	33Alp Per	1.7950	6250.0	75	14886	No
29	GOM_NL__2PRFIN20050104_010836_000000382033_00303_14886_7753.N1	04-JAN-2005 01:08:36	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	14886	No
30	GOM_NL__2PRFIN20050104_011726_000000352033_00303_14886_7754.N1	04-JAN-2005 01:17:26	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	14886	No
31	GOM_NL__2PRFIN20050104_011948_000000512033_00303_14886_7755.N1	04-JAN-2005 01:19:48	Bright	50.500	36	50Alp UMa	1.8000	6300.0	101	14886	No
32	GOM_NL__2PRFIN20050104_012149_000000402033_00303_14886_7756.N1	04-JAN-2005 01:21:49	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	14886	No
33	GOM_NL__2PRFIN20050104_012351_000000562033_00303_14886_7757.N1	04-JAN-2005 01:23:51	Bright	55.500	87	64Gam UMa	2.4330	11000.	111	14886	No
34	GOM_NL__2PRFIN20050104_012618_000000682033_00303_14886_7758.N1	04-JAN-2005 01:26:18	Bright	68.000	55	79Zet UMa	2.0600	10200.	136	14886	No
35	GOM_NL__2PRFIN20050104_012841_000000472033_00303_14886_7759.N1	04-JAN-2005 01:28:41	Bright	46.500	39	85Eta UMa	1.8540	24000.	93	14886	No
36	GOM_NL__2PRFIN20050104_013237_000000672033_00303_14886_7760.N1	04-JAN-2005 01:32:37	Bright	66.500	152	12Alp2CVn	2.8900	11000.	133	14886	No
37	GOM_NL__2PRFIN20050104_013648_000000472033_00303_14886_7761.N1	04-JAN-2005 01:36:48	Bright	47.000	83		2.3780	11000.	94	14886	No
38	GOM_NL__2PRFIN20050104_014016_000000602033_00303_14886_7762.N1	04-JAN-2005 01:40:16	Bright	59.500	3	16Alp Boo	-0.050000	4250.0	119	14886	No
39	GOM_NL__2PRFIN20050104_014208_000000402033_00303_14886_7763.N1	04-JAN-2005 01:42:08	Bright	40.000	102	24Alp Ser	2.6000	4250.0	80	14886	No
40	GOM_NL__2PRFIN20050104_014424_000000522033_00303_14886_7764.N1	04-JAN-2005 01:44:24	Bright	51.500	120	1Del Oph	2.7340	3200.0	103	14886	No
41	GOM_NL__2PRFIN20050104_014719_000000422033_00303_14886_7765.N1	04-JAN-2005 01:47:19	Bright	41.500	104	27Bet Lib	2.6140	13100.	83	14886	No
42	GOM_NL__2PRFIN20050104_015414_000000722033_00303_14886_7766.N1	04-JAN-2005 01:54:14	Dark	71.500	15	67Alp Vir	0.97600	28000.	143	14886	No

456	GOM_NL__2PRFIN20050104_192654_000000372033_00314_14897_7527.N1	04-JAN-2005 19:26:54	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	14897	No
457	GOM_NL__2PRFIN20050104_192814_000000382033_00314_14897_7528.N1	04-JAN-2005 19:28:14	Bright	37.500	114	31ot Aur	2.6930	4600.0	75	14897	No
458	GOM_NL__2PRFIN20050104_192933_000000402033_00314_14897_7529.N1	04-JAN-2005 19:29:33	Bright	39.500	107	37The Aur	2.6490	11000.	79	14897	No
459	GOM_NL__2PRFIN20050104_193148_000000422033_00314_14897_7530.N1	04-JAN-2005 19:31:48	Bright	41.500	6	13Alp Aur	0.080000	3400.0	83	14897	No
460	GOM_NL__2PRFIN20050104_193357_000000402033_00314_14897_7531.N1	04-JAN-2005 19:33:57	Bright	40.000	35	33Alp Per	1.7950	6250.0	80	14897	No
461	GOM_NL__2PRFIN20050104_193516_000000372033_00314_14897_7532.N1	04-JAN-2005 19:35:16	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	14897	No
462	GOM_NL__2PRFIN20050104_194402_000000372033_00314_14897_7533.N1	04-JAN-2005 19:44:02	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	14897	No
463	GOM_NL__2PRFIN20050104_194616_000000512033_00314_14897_7534.N1	04-JAN-2005 19:46:16	Bright	51.000	36	50Alp UMa	1.8000	6300.0	102	14897	No
464	GOM_NL__2PRFIN20050104_194823_000000402033_00314_14897_7535.N1	04-JAN-2005 19:48:23	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	14897	No
465	GOM_NL__2PRFIN20050104_195017_000000572033_00314_14897_7536.N1	04-JAN-2005 19:50:17	Bright	57.000	87	64Gam UMa	2.4330	11000.	114	14897	No
466	GOM_NL__2PRFIN20050104_195222_000000392033_00314_14897_7537.N1	04-JAN-2005 19:52:22	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	14897	No
467	GOM_NL__2PRFIN20050104_195437_000000372033_00314_14897_7538.N1	04-JAN-2005 19:54:37	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	14897	No
468	GOM_NL__2PRFIN20050104_195932_000000462033_00314_14897_7539.N1	04-JAN-2005 19:59:32	Bright	46.000	180	27Gam Boo	3.0400	8000.0	92	14897	No
469	GOM_NL__2PRFIN20050104_200325_000000462033_00314_14897_7540.N1	04-JAN-2005 20:03:25	Bright	46.000	83		2.3780	11000.	92	14897	No
470	GOM_NL__2PRFIN20050104_200536_000000362033_00314_14897_7541.N1	04-JAN-2005 20:05:36	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	14897	No
471	GOM_NL__2PRFIN20050104_200759_000000642033_00314_14897_7542.N1	04-JAN-2005 20:07:59	Bright	63.500	111	8Eta Boo	2.6800	6000.0	127	14897	No
472	GOM_NL__2PRFIN20050104_201104_000000382033_00314_14897_7543.N1	04-JAN-2005 20:11:04	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	14897	No
473	GOM_NL__2PRFIN20050104_201401_000000432033_00314_14897_7544.N1	04-JAN-2005 20:14:01	Bright	42.500	104	27Bet Lib	2.6140	13100.	85	14897	No
474	GOM_NL__2PRFIN20050104_201629_000000452033_00314_14897_7545.N1	04-JAN-2005 20:16:29	Bright	45.000	80	7Del Sco	2.3160	30000.	90	14897	No
475	GOM_NL__2PRFIN20050104_202106_000000762033_00314_14897_7546.N1	04-JAN-2005 20:21:06	Dark	76.000	15	67Alp Vir	0.97600	28000.	152	14897	No
476	GOM_NL__2PRFIN20050104_202451_000000422033_00314_14897_7547.N1	04-JAN-2005 20:24:51	Dark	42.000	78	Alp Lup	2.3040	28000.	84	14897	No
477	GOM_NL__2PRFIN20050104_202629_000000422033_00314_14897_7548.N1	04-JAN-2005 20:26:29	Dark	41.500	95	Zet Cen	2.5450	26000.	83	14897	No
478	GOM_NL__2PRFIN20050104_202753_000000462033_00315_14898_7510.N1	04-JAN-2005 20:27:53	Dark	46.000	4	Alp1Cen	-0.010000	5800.0	92	14898	No
479	GOM_NL__2PRFIN20050104_203009_000000552033_00315_14898_7511.N1	04-JAN-2005 20:30:09	Dark	55.000	64	Gam Cen	2.2000	10600.	110	14898	No
480	GOM_NL__2PRFIN20050104_203154_000000502033_00315_14898_7512.N1	04-JAN-2005 20:31:54	Dark	50.000	12	Alp1Cru	0.77500	30000.	100	14898	No
481	GOM_NL__2PRFIN20050104_203703_000000402033_00315_14898_7513.N1	04-JAN-2005 20:37:03	Dark	40.000	29	Bet Car	1.6720	10200.	80	14898	No
482	GOM_NL__2PRFIN20050104_203836_000000432033_00315_14898_7514.N1	04-JAN-2005 20:38:36	Dark	42.500	71	1ot Car	2.2460	7700.0	85	14898	No
483	GOM_NL__2PRFIN20050104_204005_000000272033_00315_14898_7515.N1	04-JAN-2005 20:40:05	Dark	27.000	41	Eps Car	1.8600	4100.0	54	14898	No
484	GOM_NL__2PRFIN20050104_234905_000000532033_00317_14900_8039.N1	04-JAN-2005 23:49:05	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	14900	No
485	GOM_NL__2PRFIN20050104_235122_000000482033_00317_14900_8040.N1	04-JAN-2005 23:51:22	Dark	47.500	64	Gam Cen	2.2000	10600.	95	14900	No
486	GOM_NL__2PRFIN20050104_235304_000000452033_00317_14900_8041.N1	04-JAN-2005 23:53:04	Dark	44.500	12	Alp1Cru	0.77500	30000.	89	14900	No
487	GOM_NL__2PRFIN20050104_235815_000000402033_00317_14900_8042.N1	04-JAN-2005 23:58:15	Dark	40.000	29	Bet Car	1.6720	10200.	80	14900	No
488	GOM_NL__2PRFIN20050104_235946_000000532033_00317_14900_8043.N1	04-JAN-2005 23:59:46	Dark	52.500	71	1ot Car	2.2460	7700.0	105	14900	No

3. Quality information per product

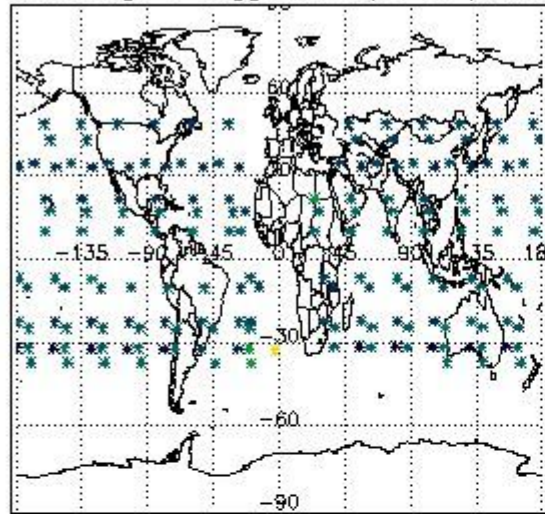
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

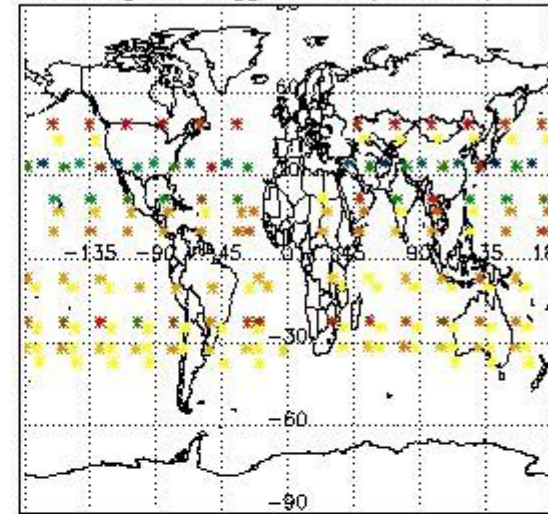


3.2 Plot quality information per product (world map)

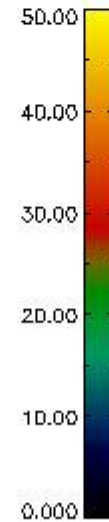
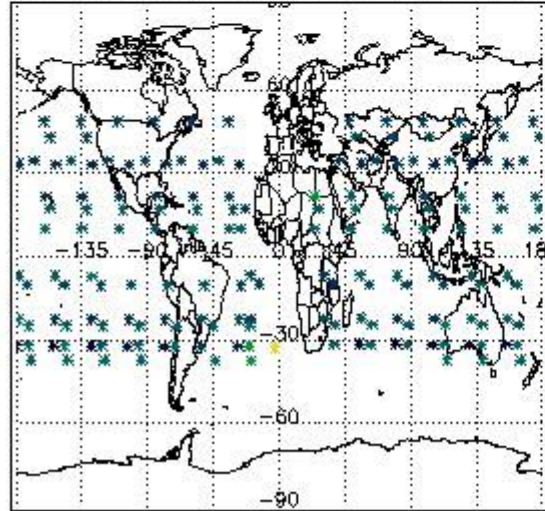
Percentage of flagged data per O3 profile



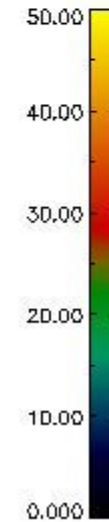
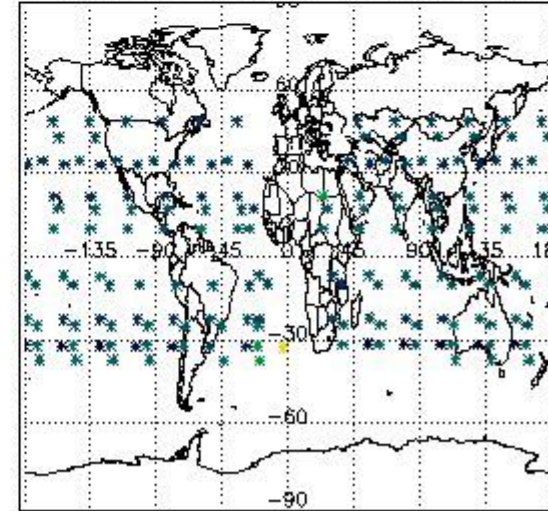
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

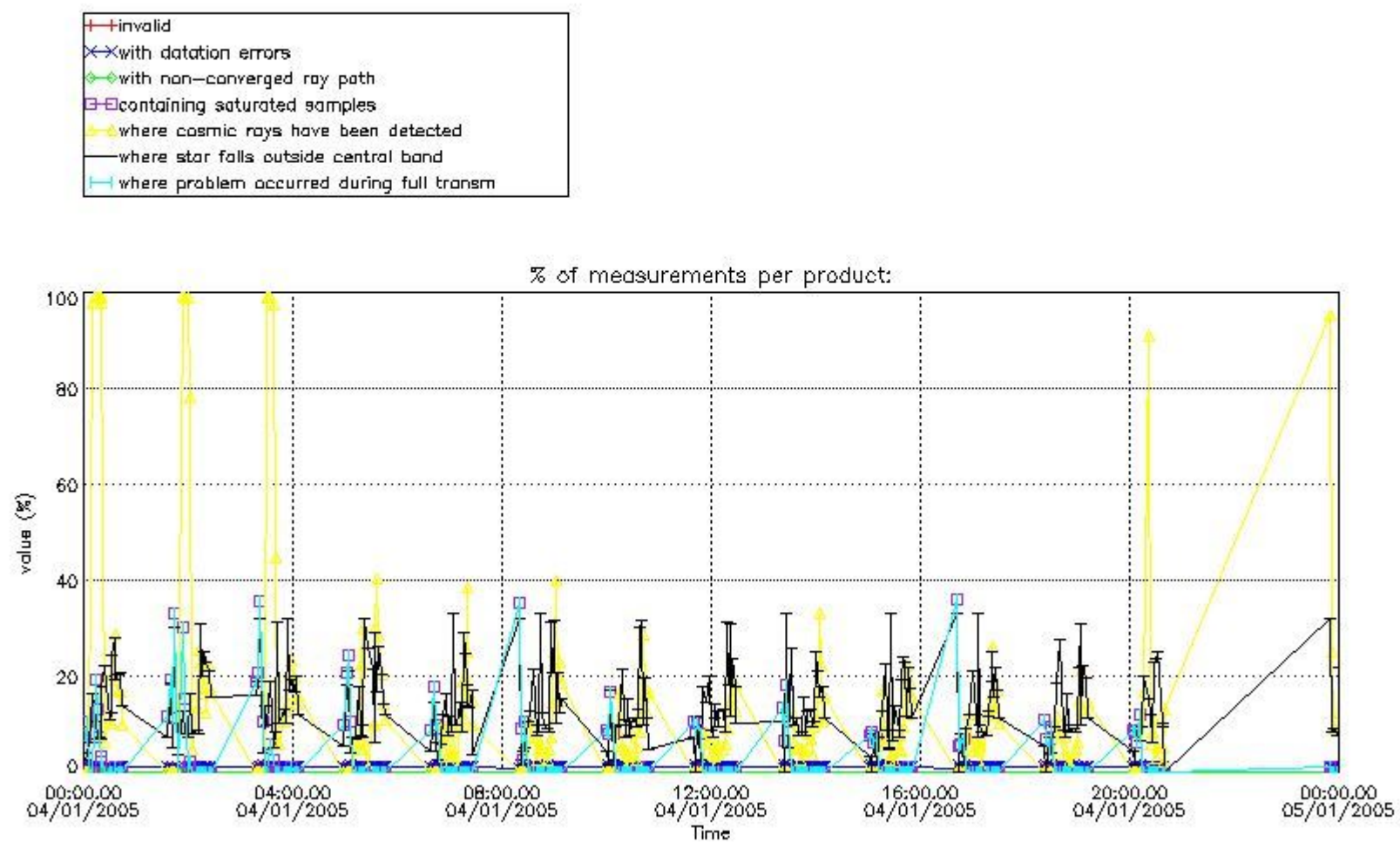


4. Level 1 quality information per product

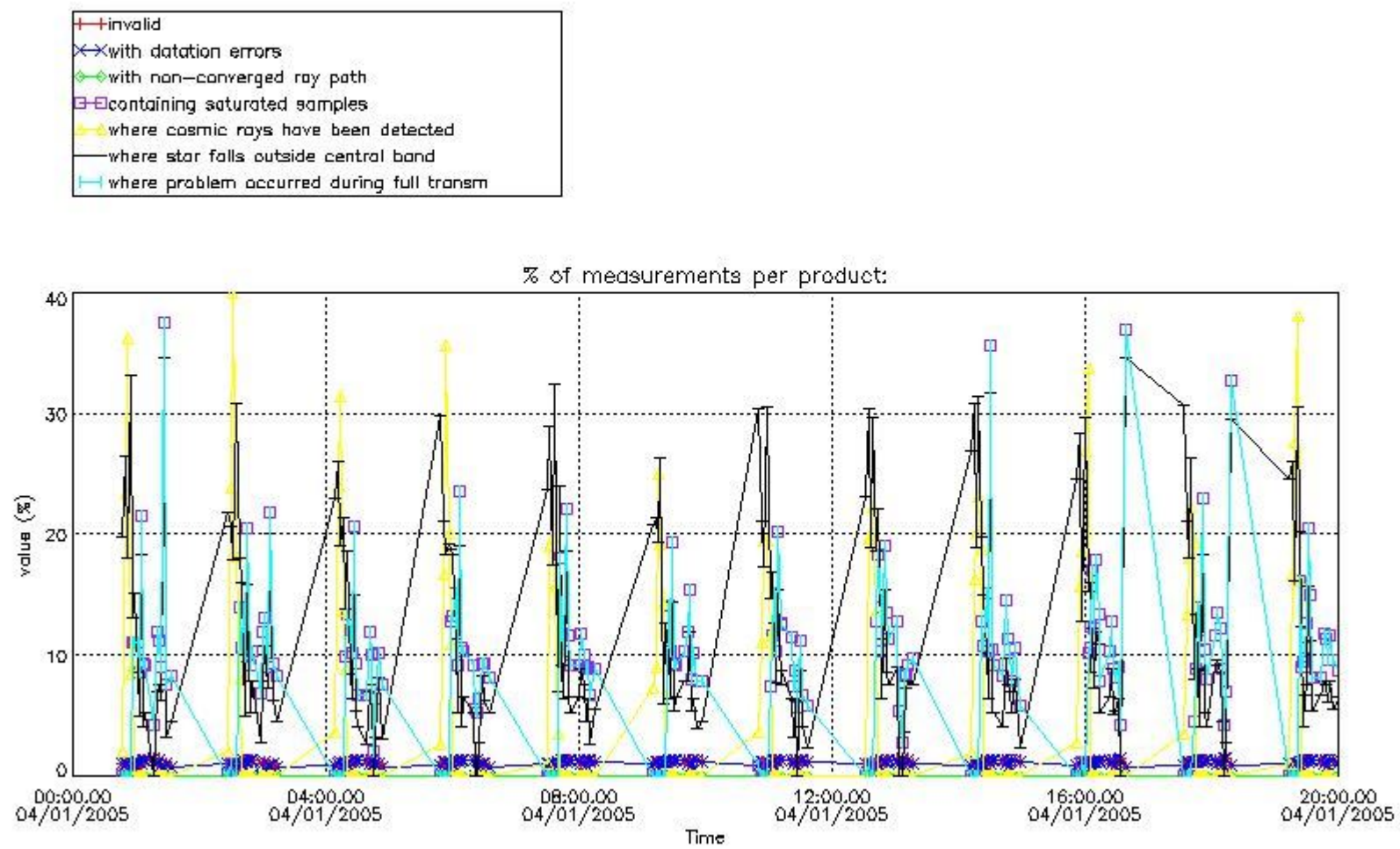
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



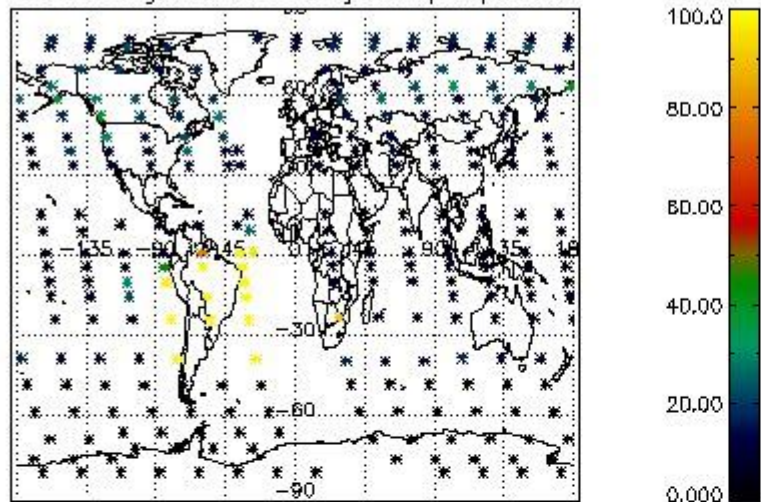
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



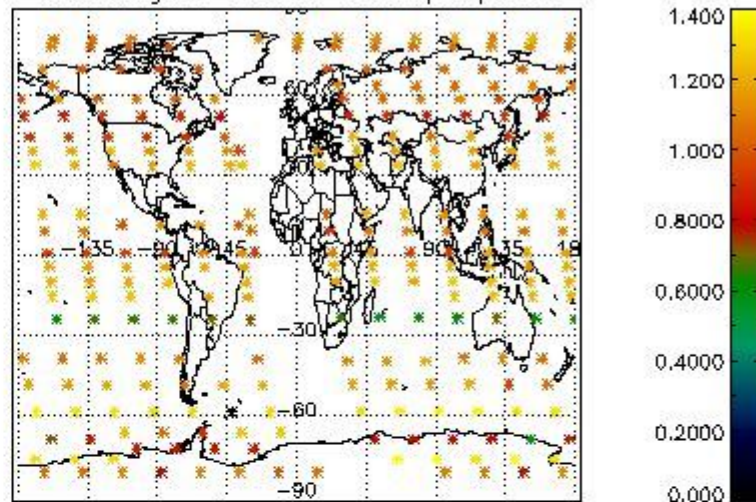
4.2 Plot quality information per product coming from level 1b processing (world map)

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

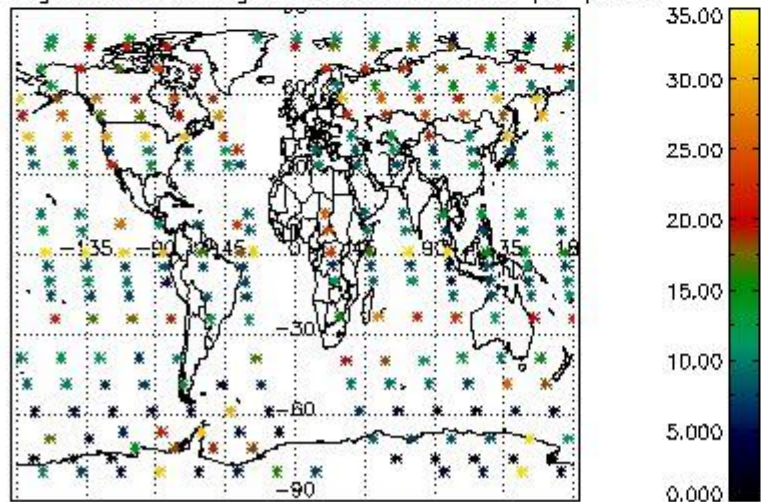
Percentage of cosmic ray hits per profile



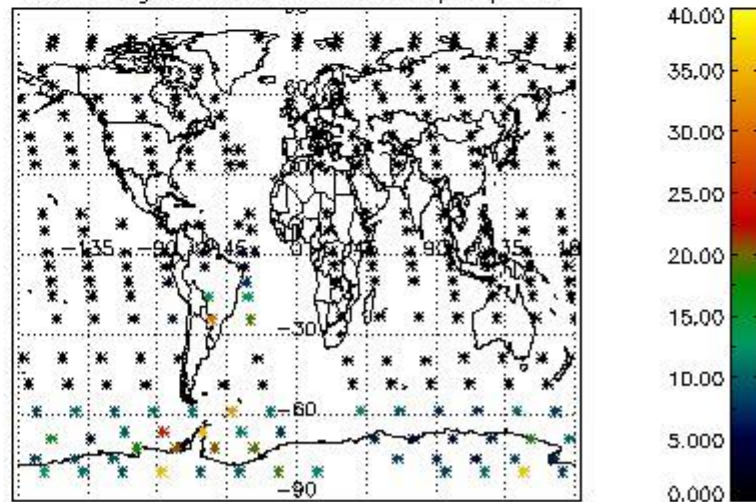
Percentage of datation errors per profile



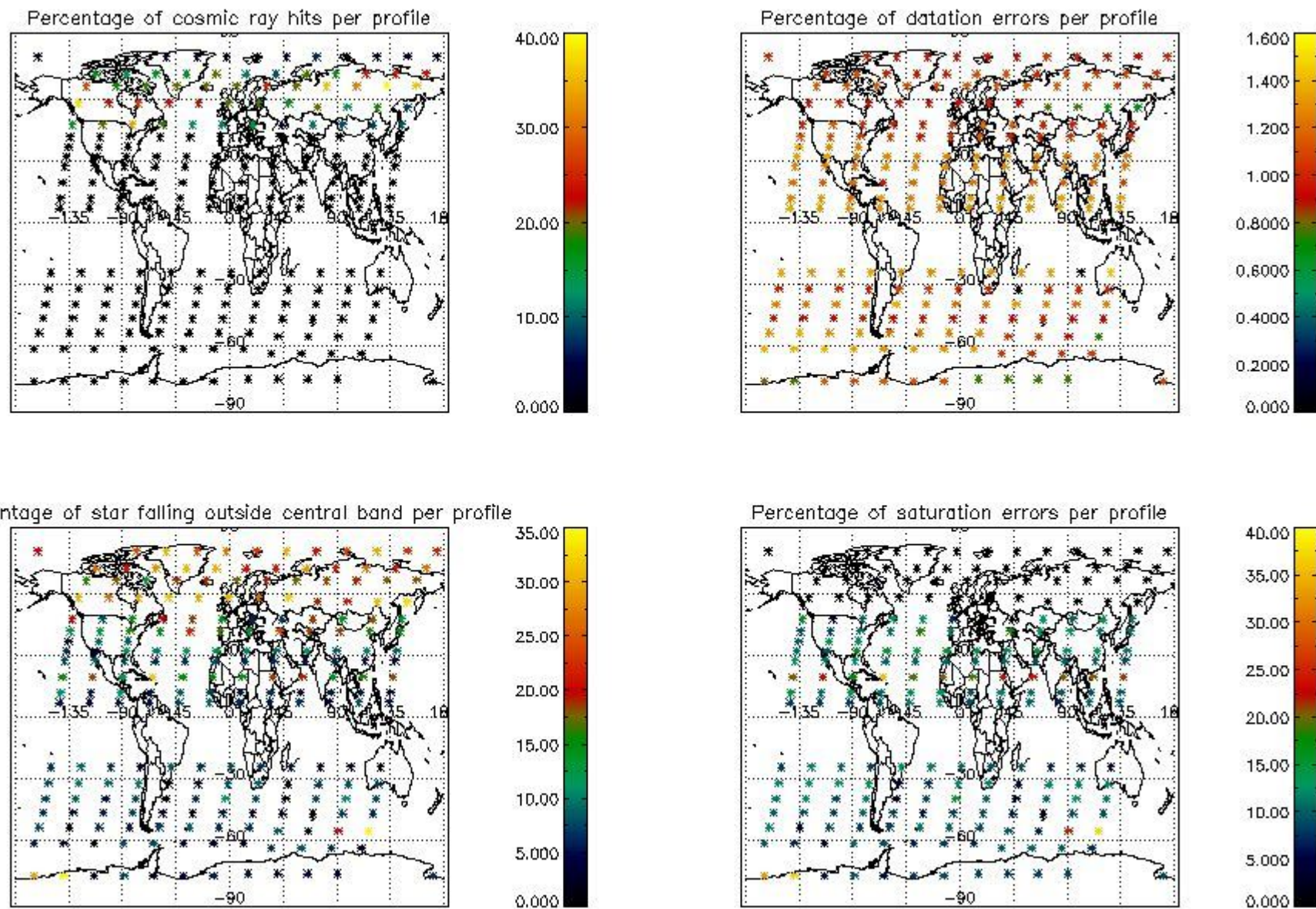
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

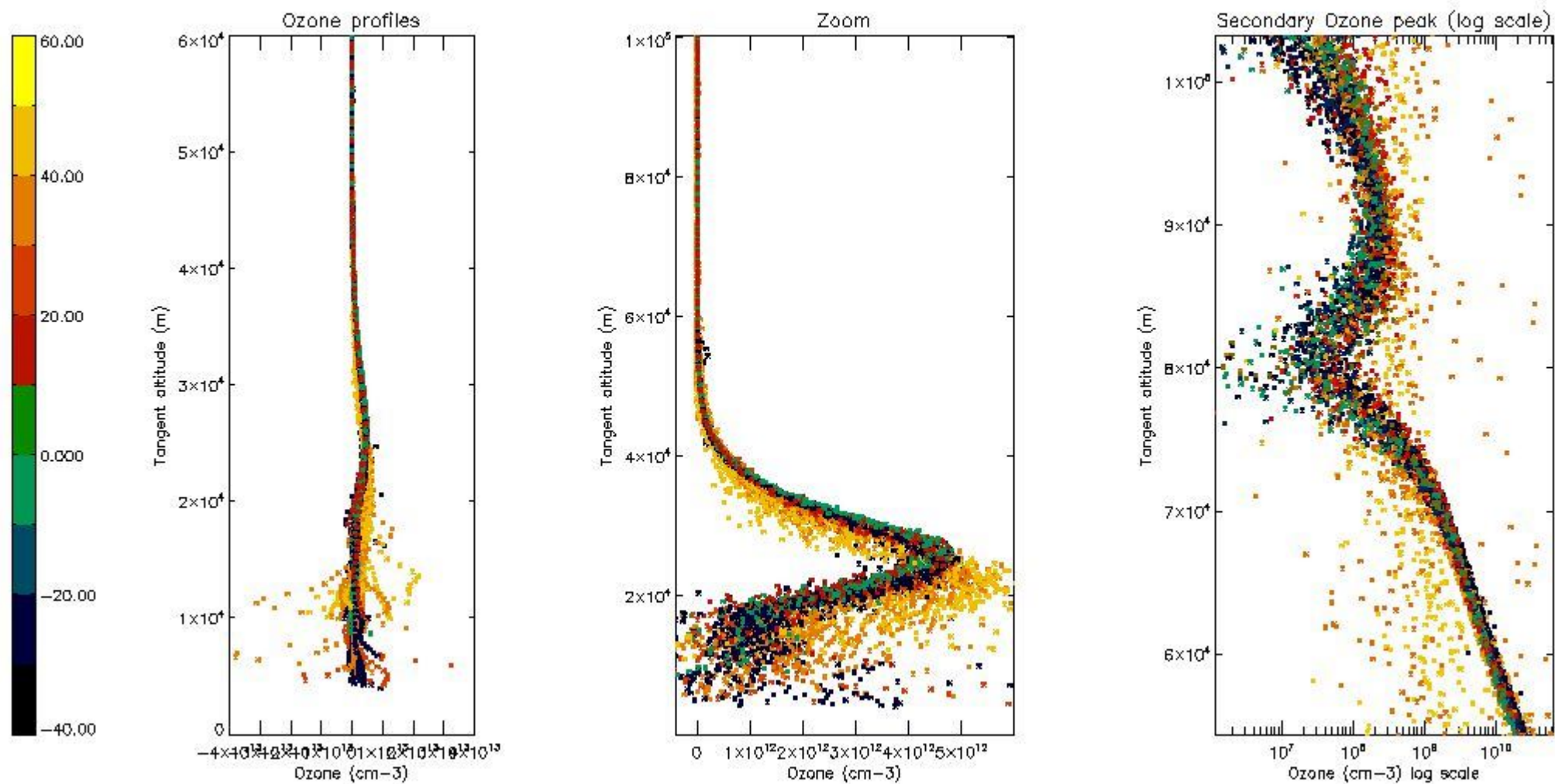
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	20

STD < 10	17
STD < 5	12

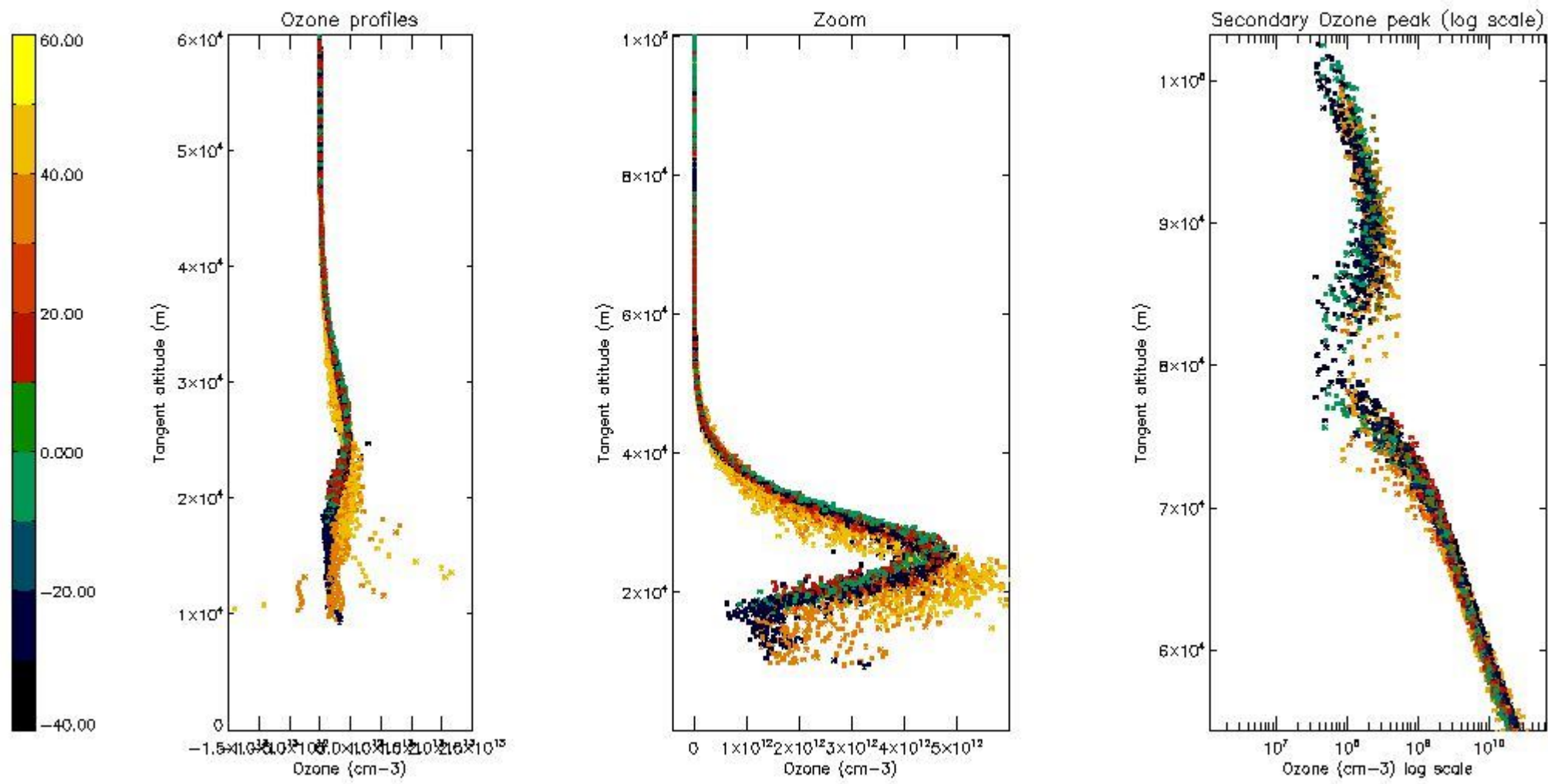
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



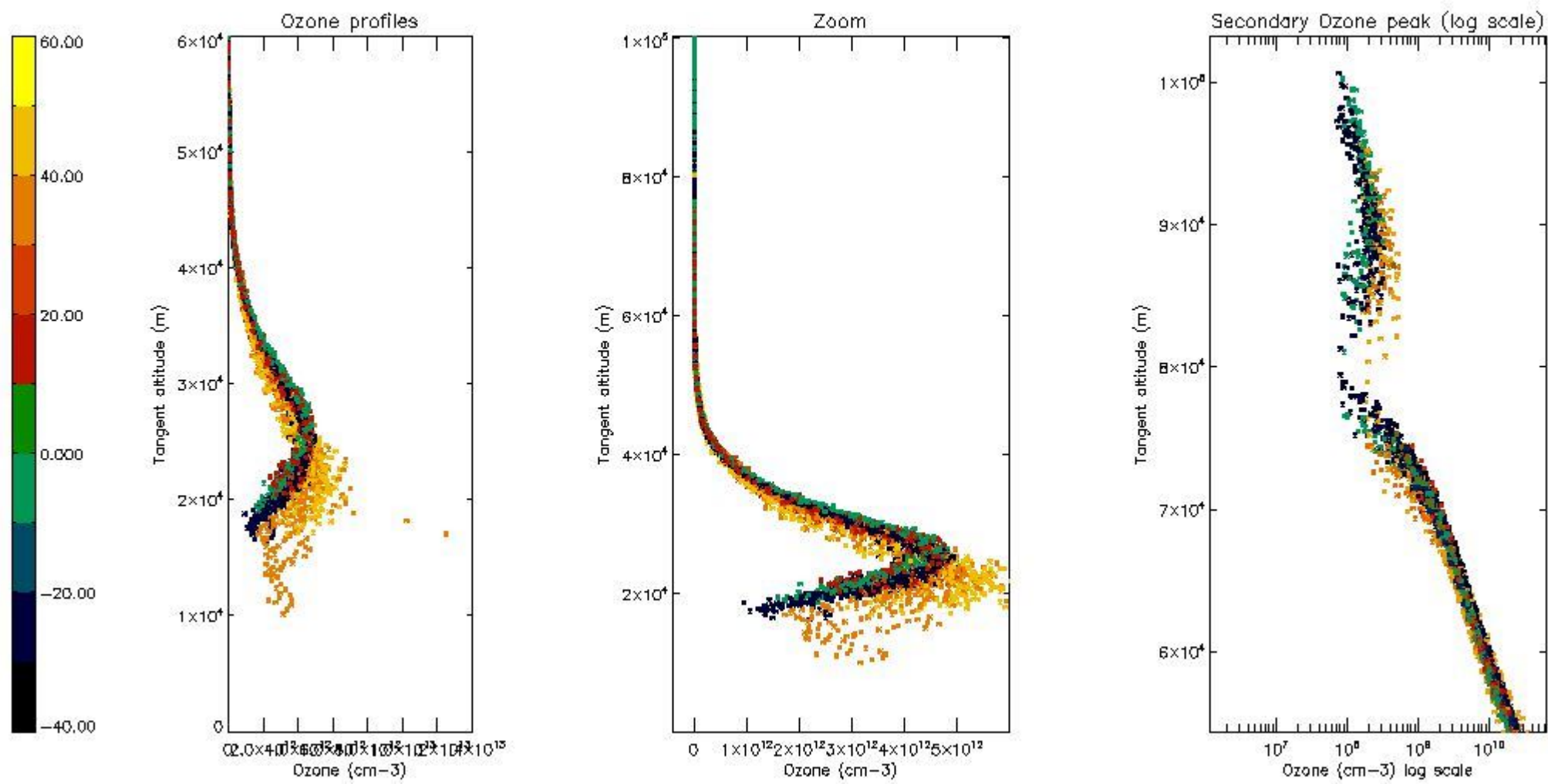
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



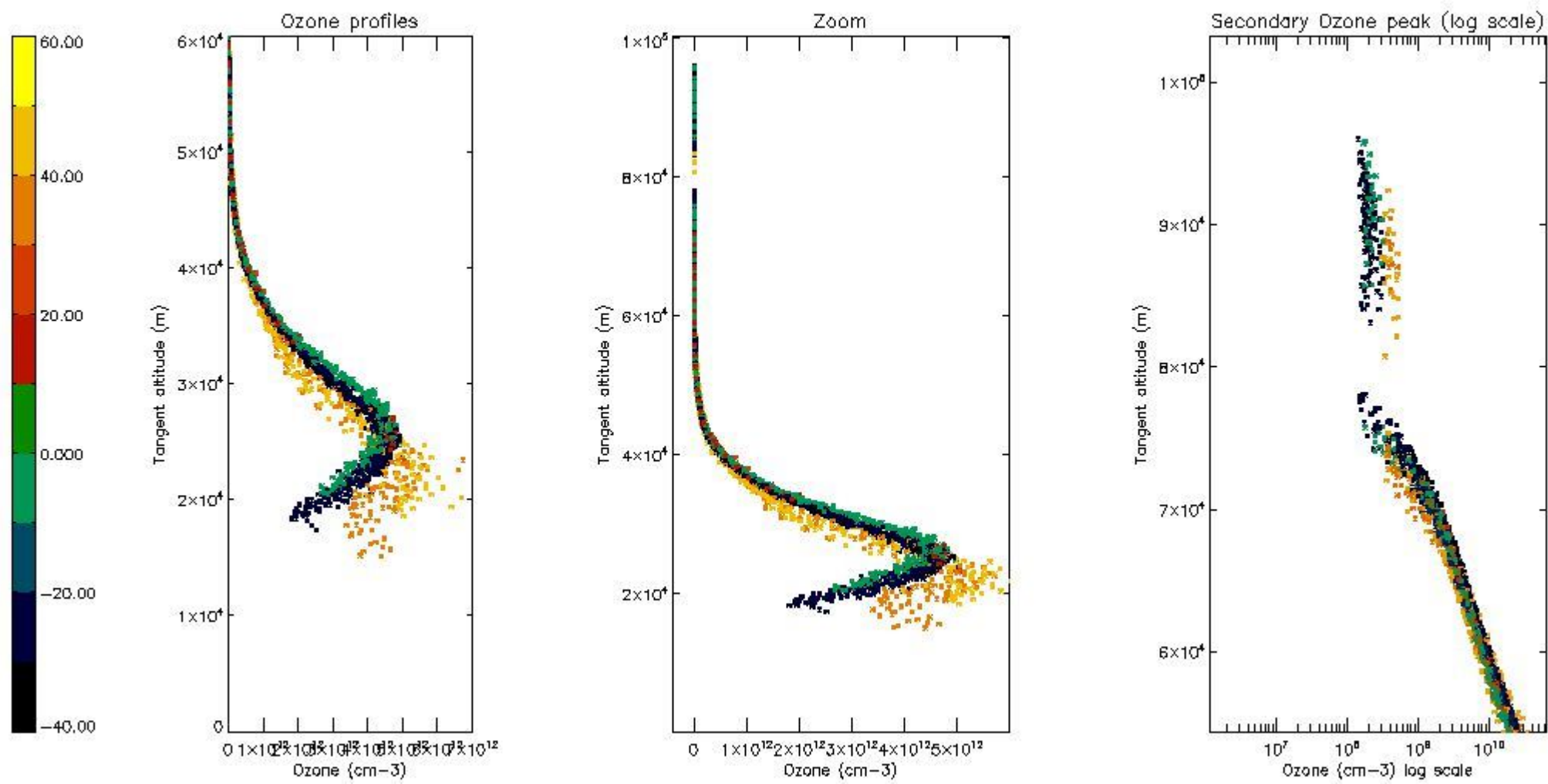
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



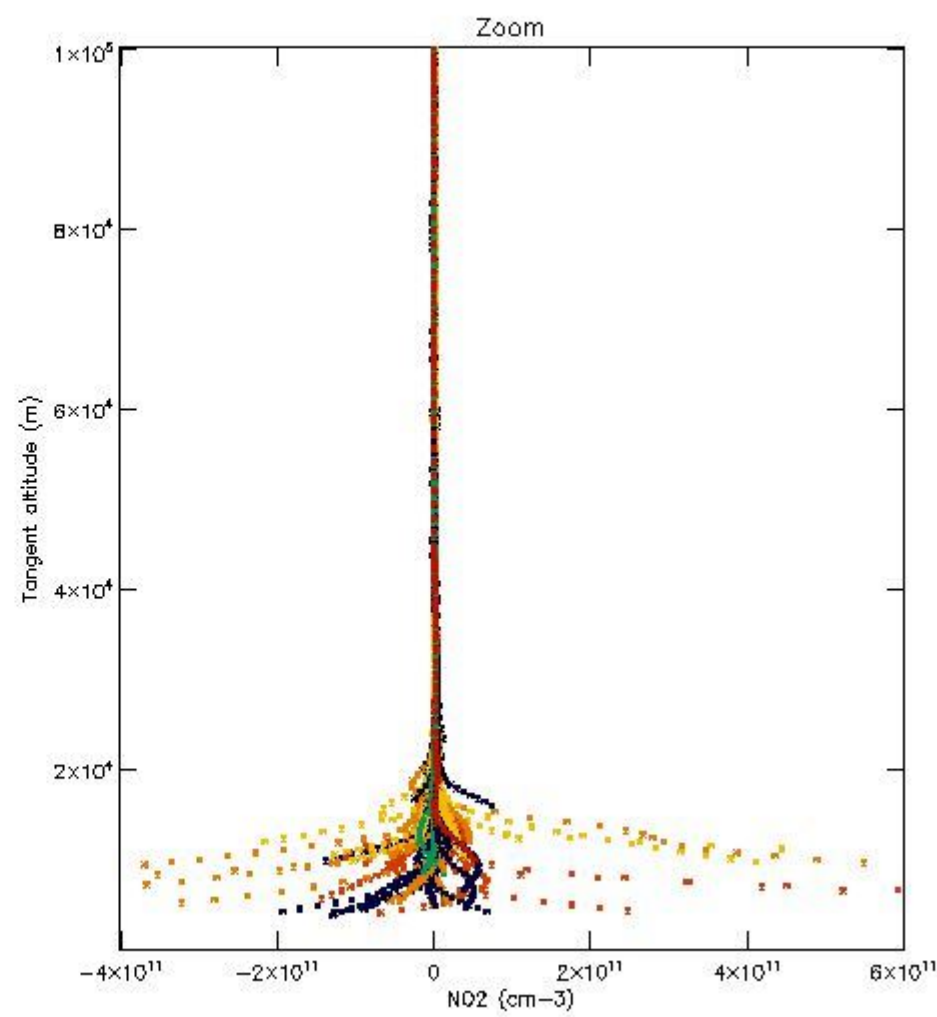
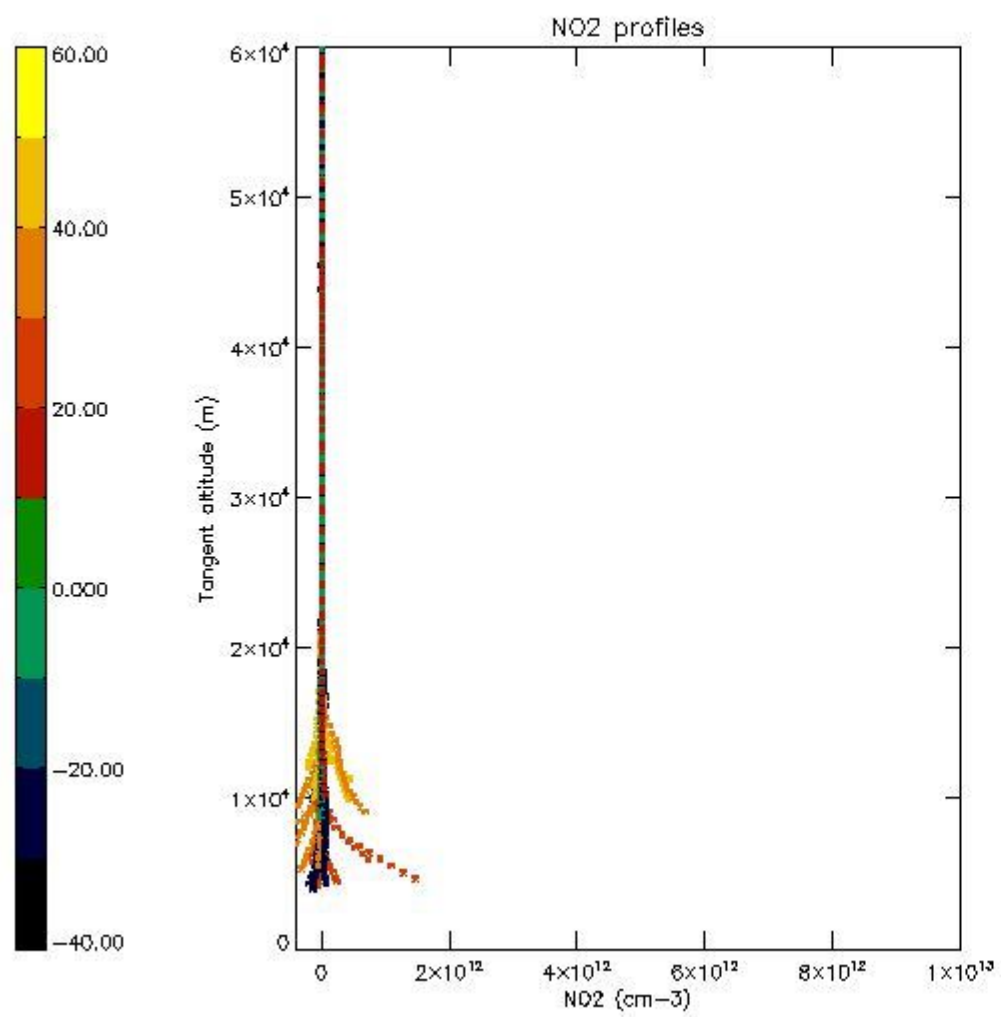
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



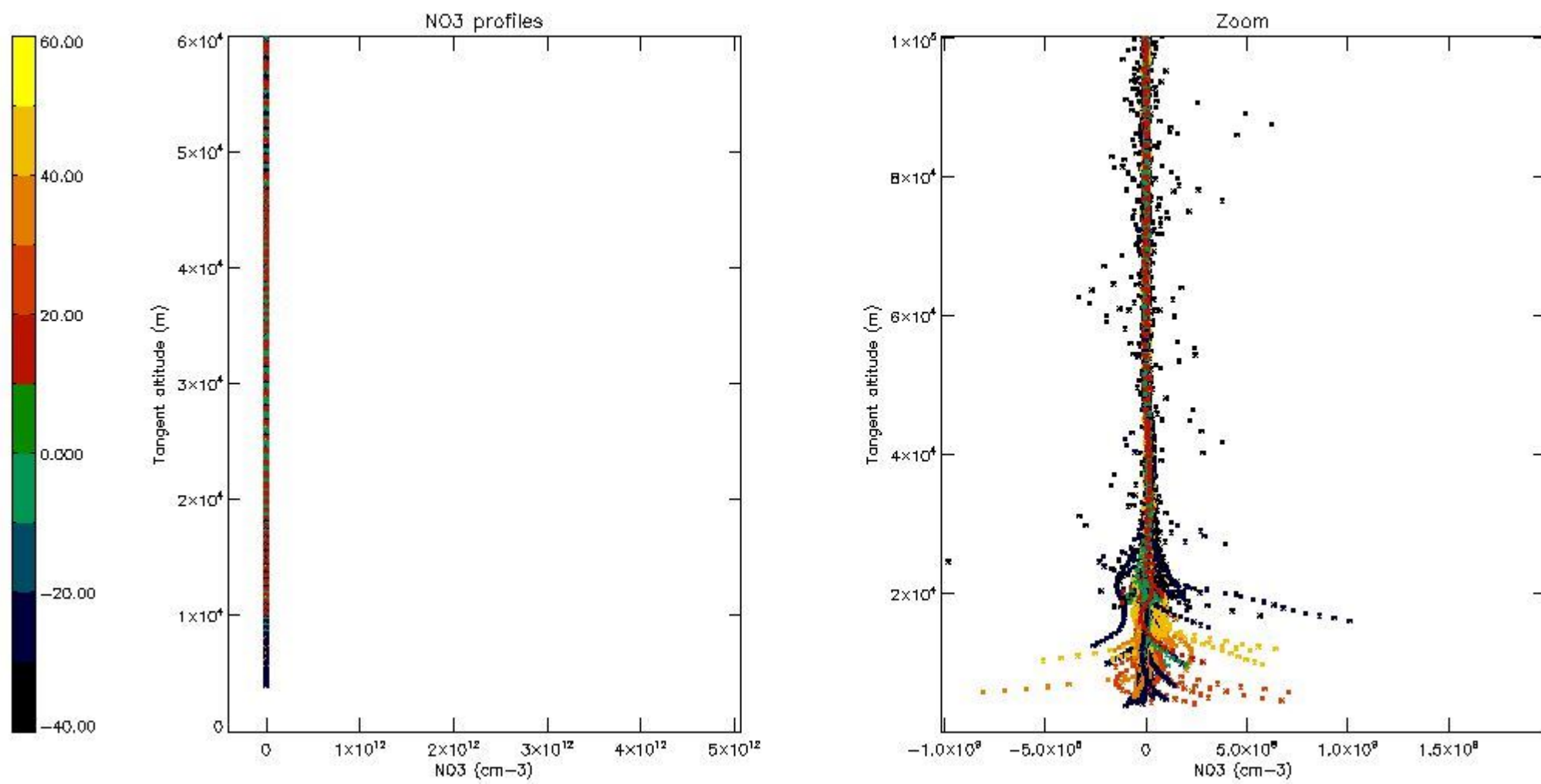
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



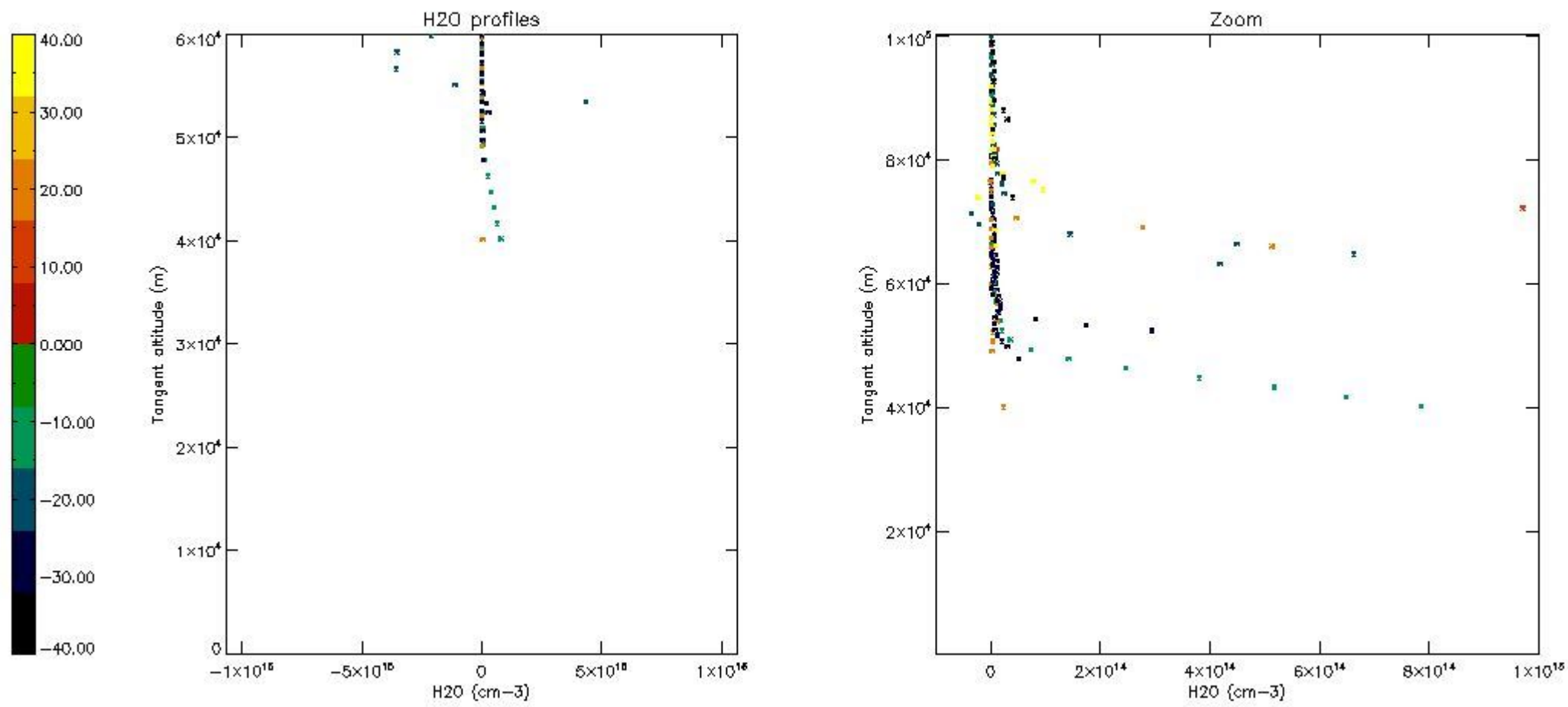
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

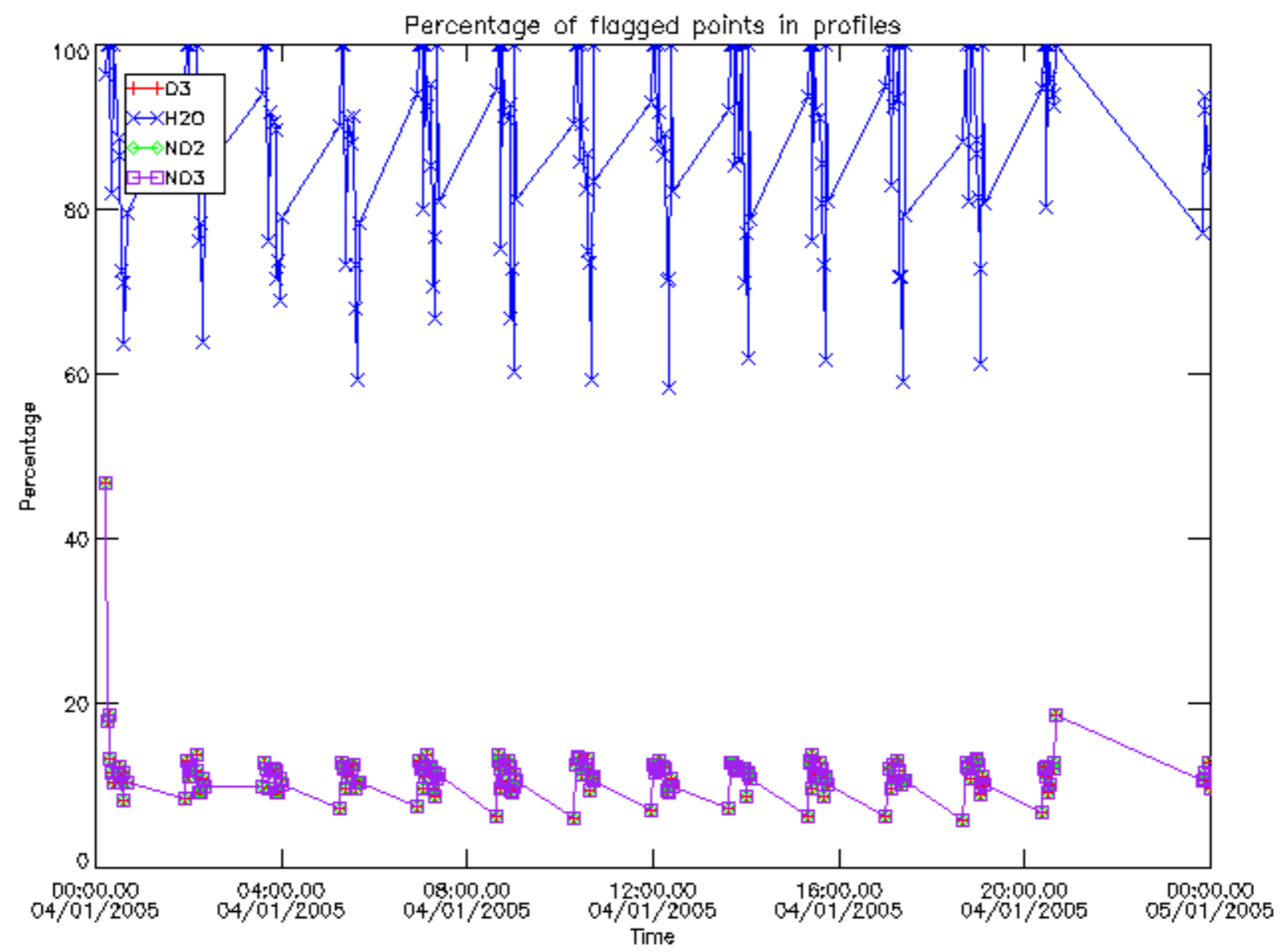
The colorbar represents the latitude.



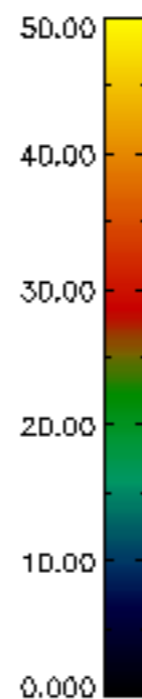
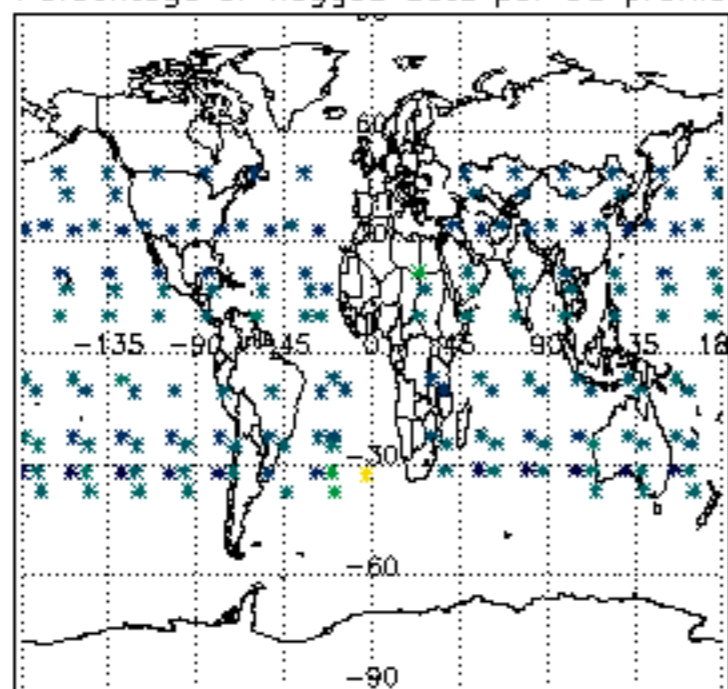
6. Auxiliary Data Files used for the production reported in section 2

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.

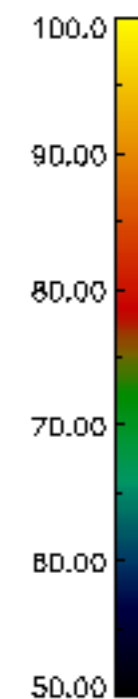
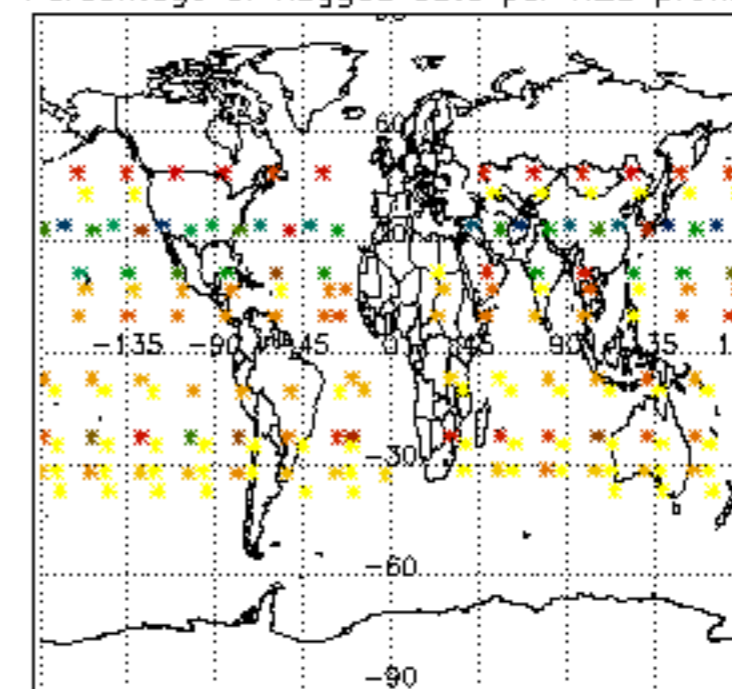
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	04-JAN-2005 00:01:31
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-JAN-2005 00:01:31
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-JAN-2005 00:01:31



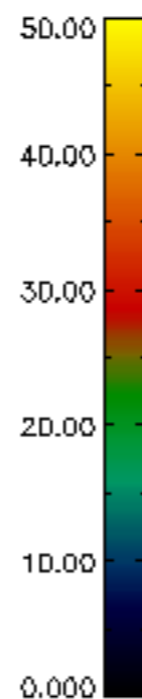
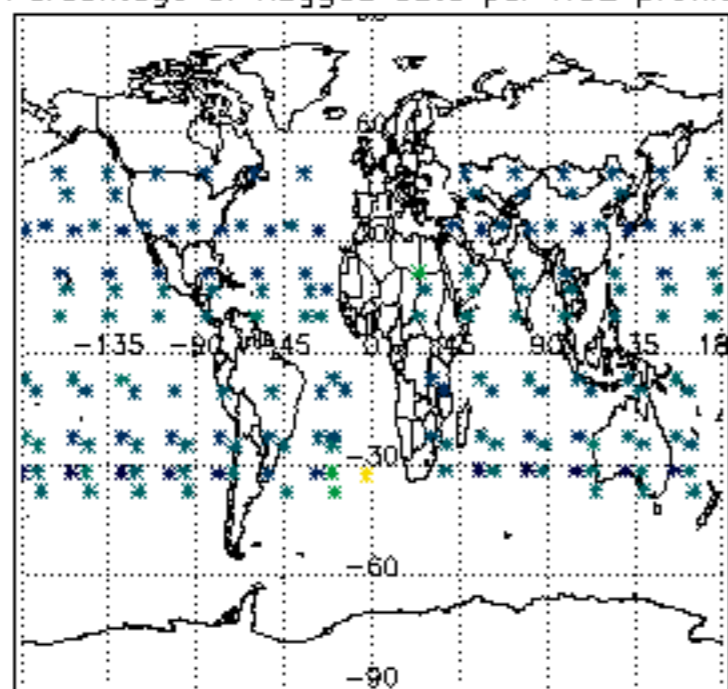
Percentage of flagged data per D3 profile



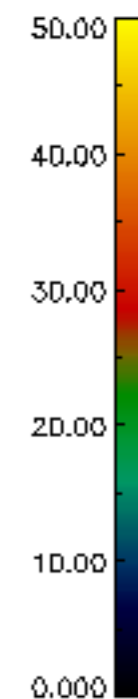
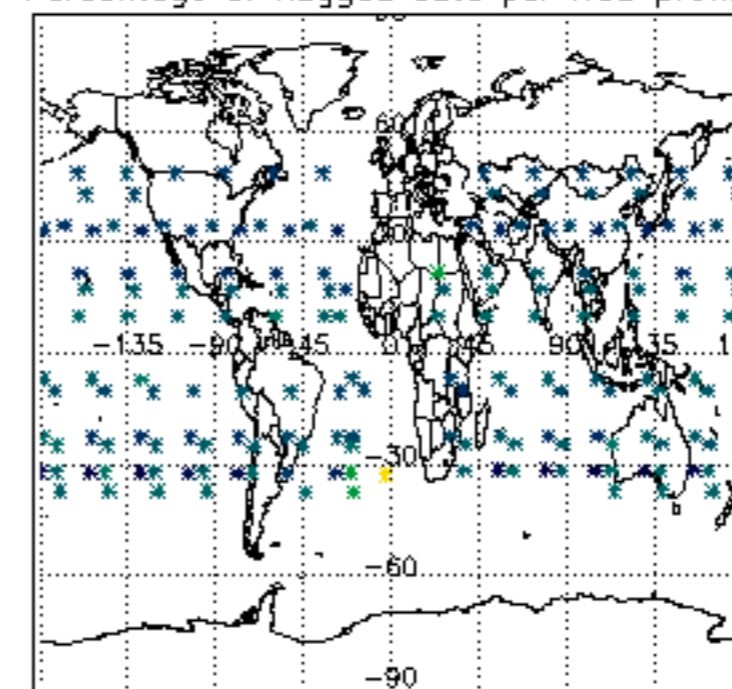
Percentage of flagged data per H2O profile

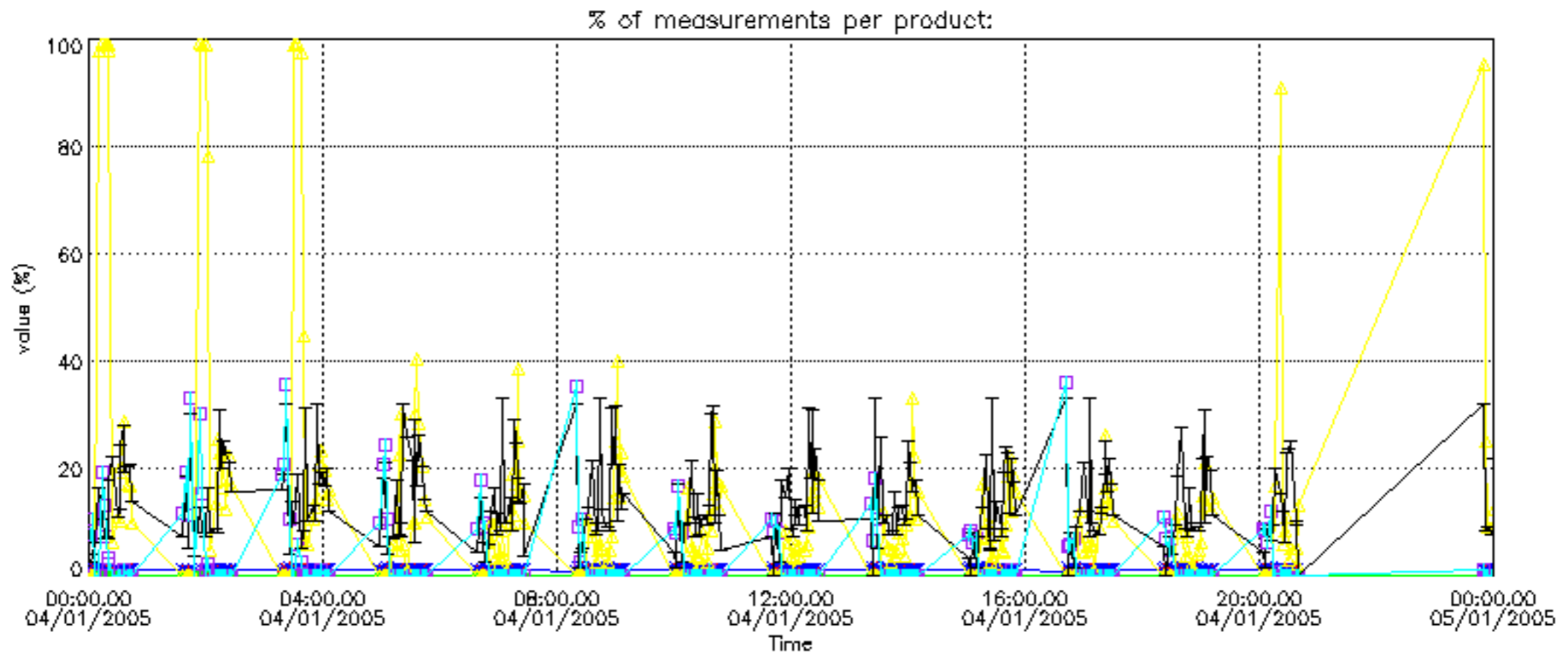


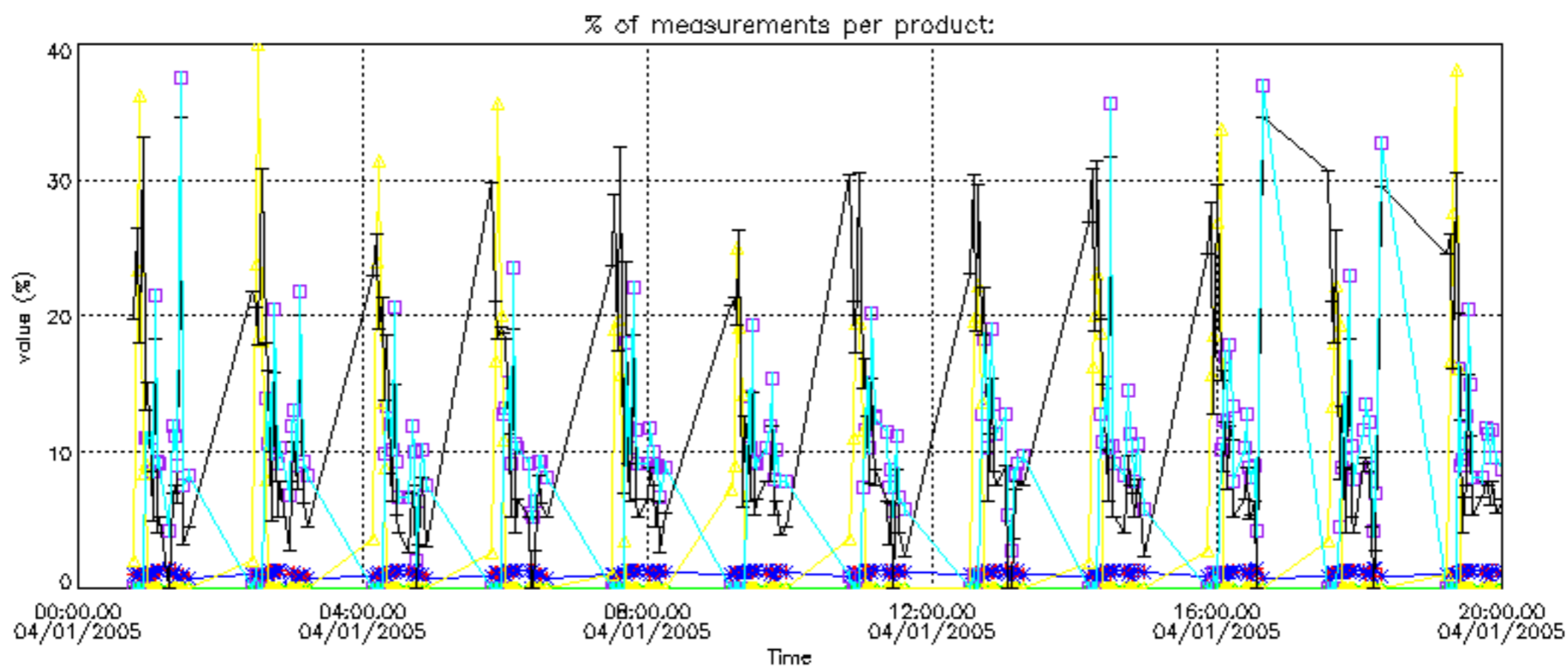
Percentage of flagged data per NO2 profile



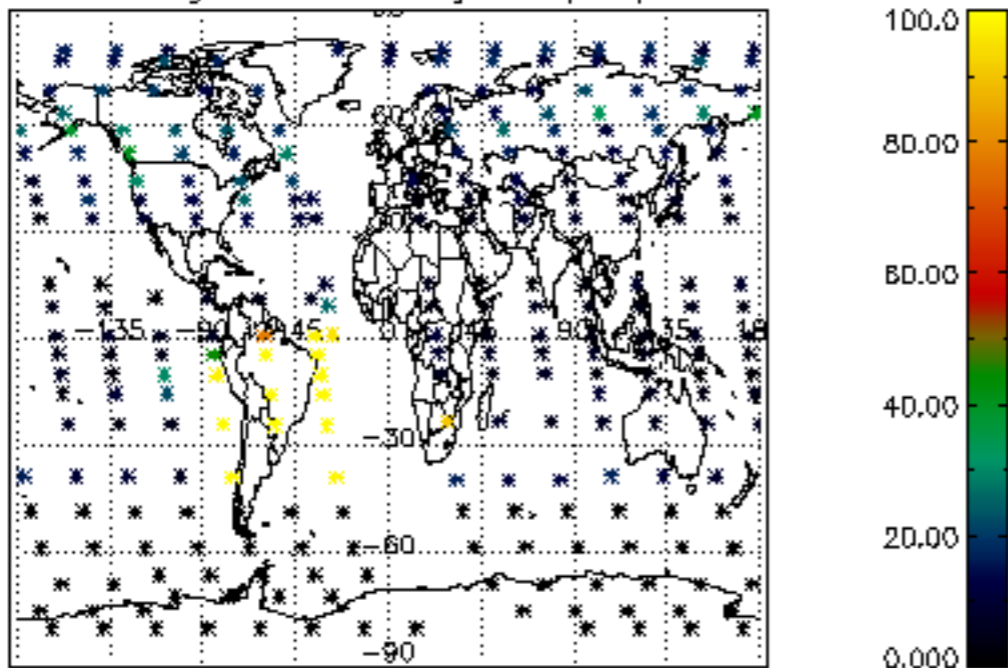
Percentage of flagged data per NO3 profile



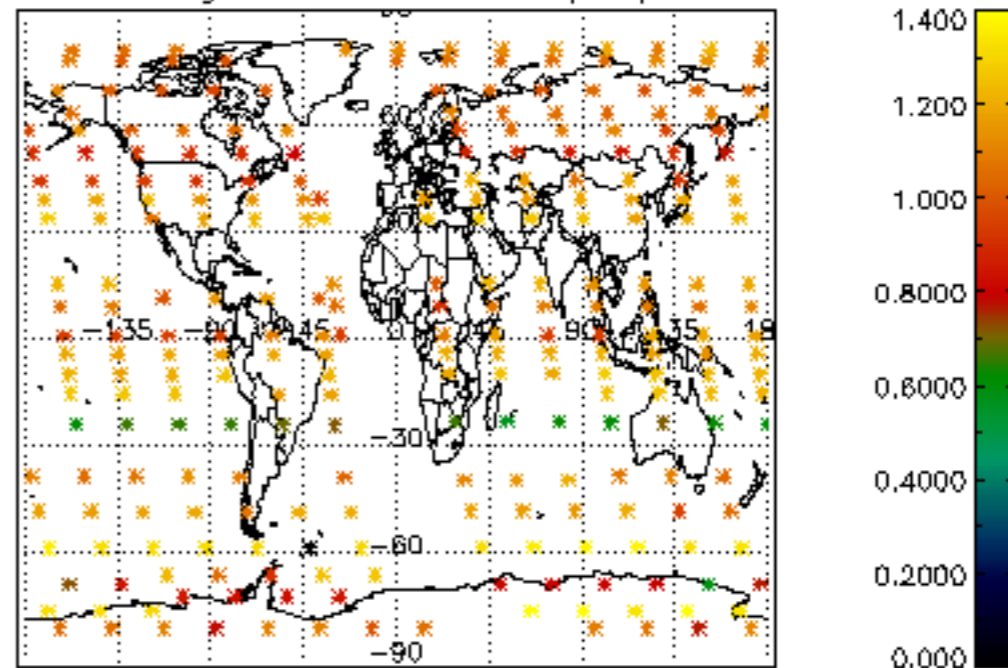




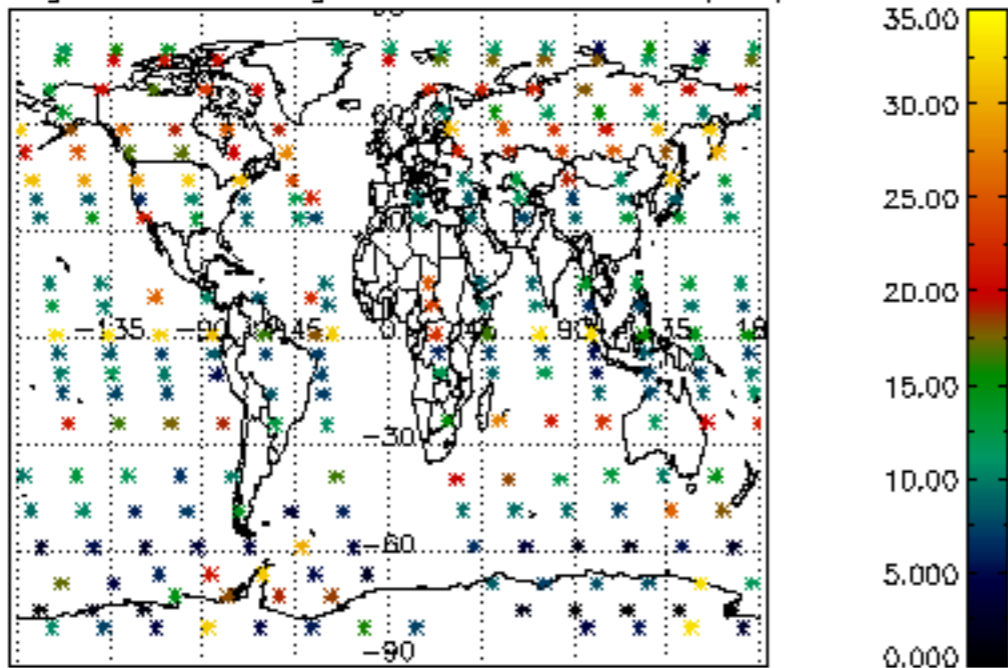
Percentage of cosmic ray hits per profile



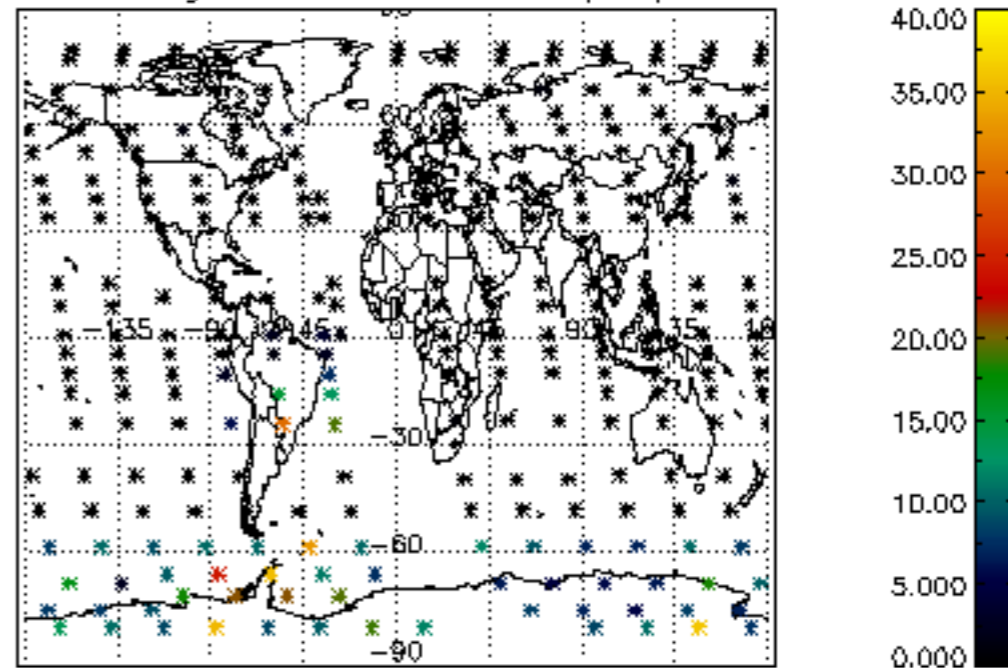
Percentage of datation errors per profile



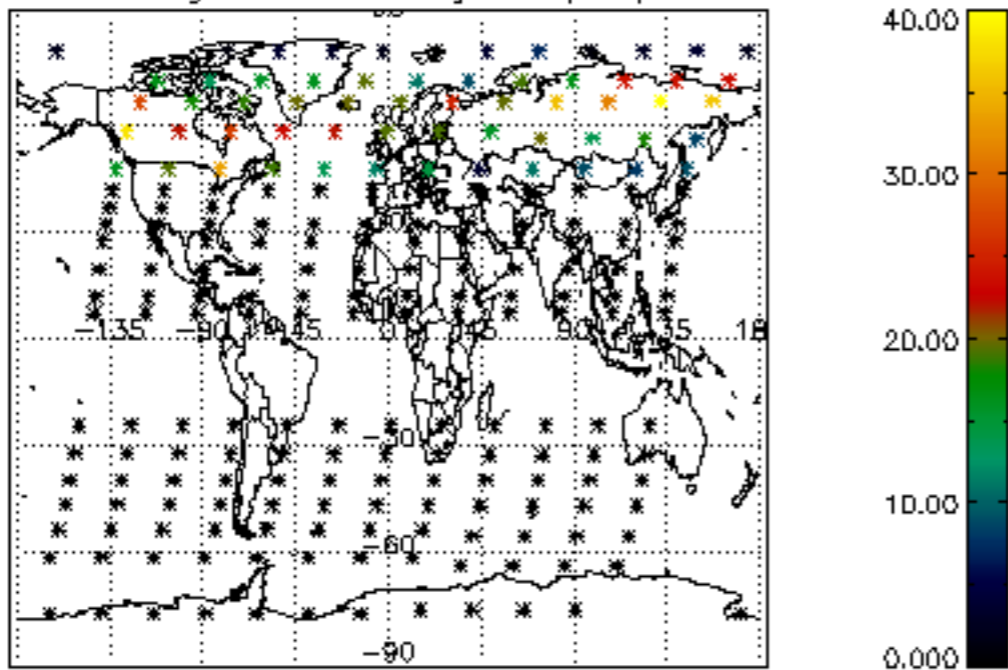
Percentage of star falling outside central band per profile



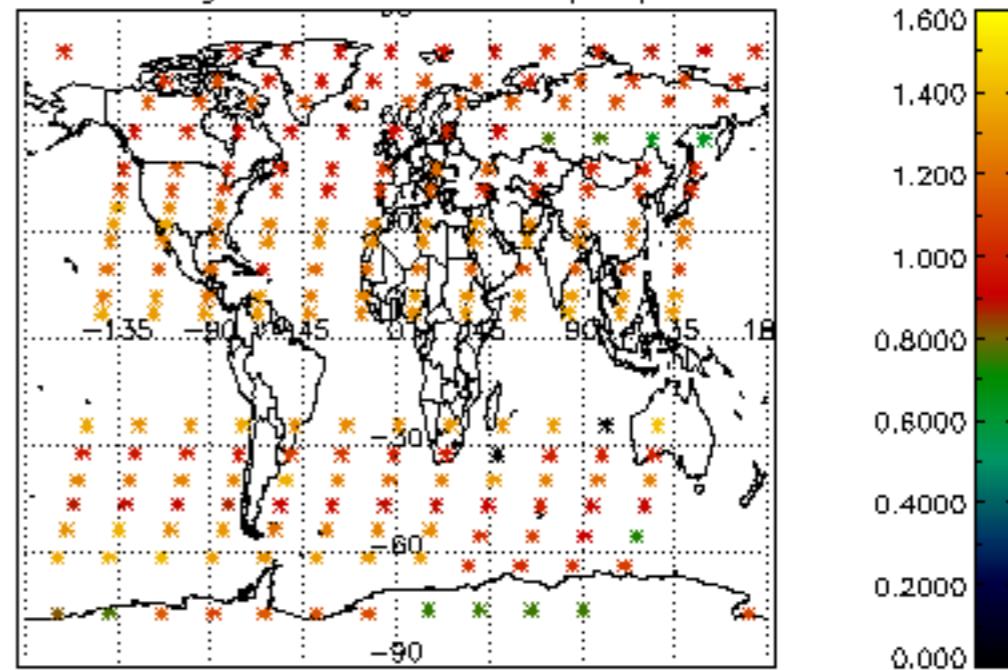
Percentage of saturation errors per profile



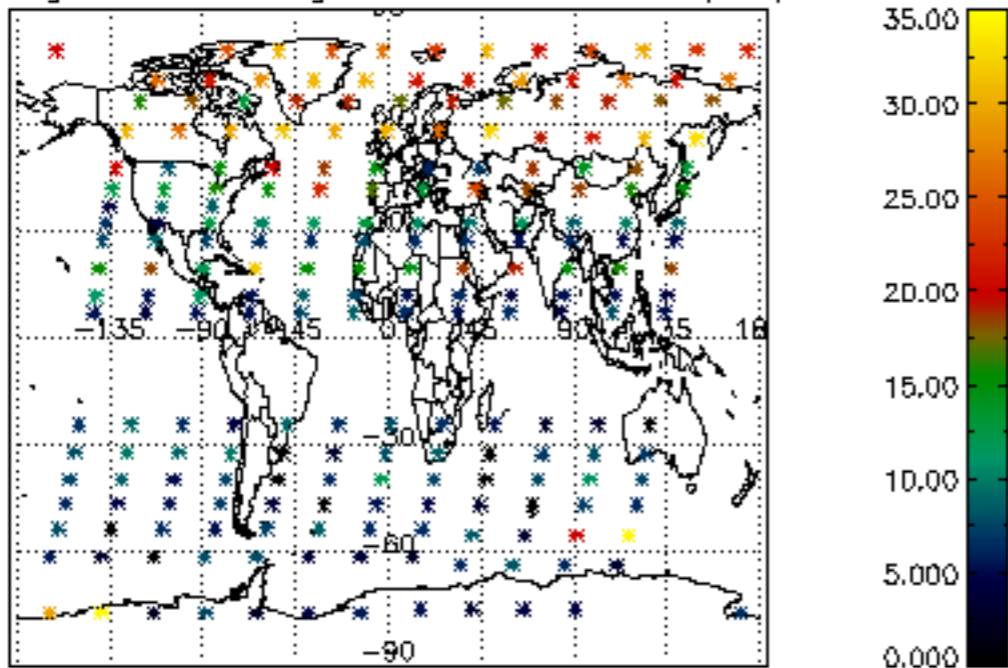
Percentage of cosmic ray hits per profile



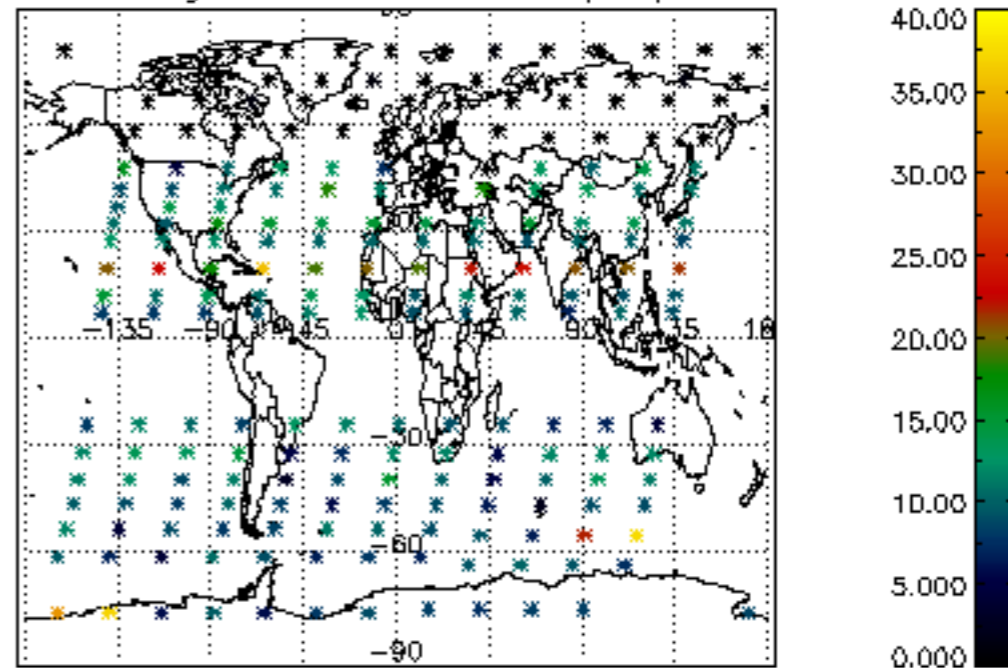
Percentage of datation errors per profile

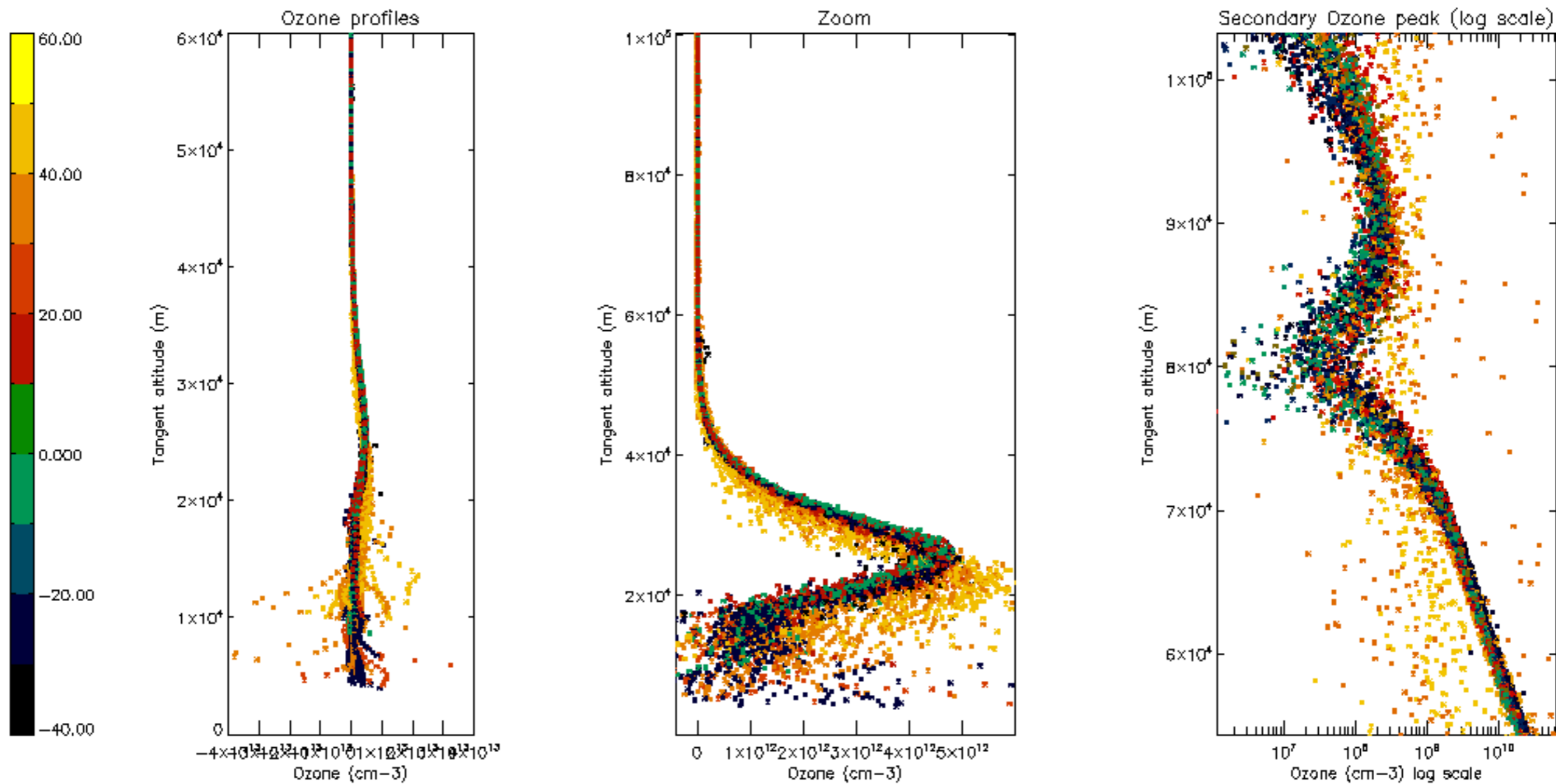


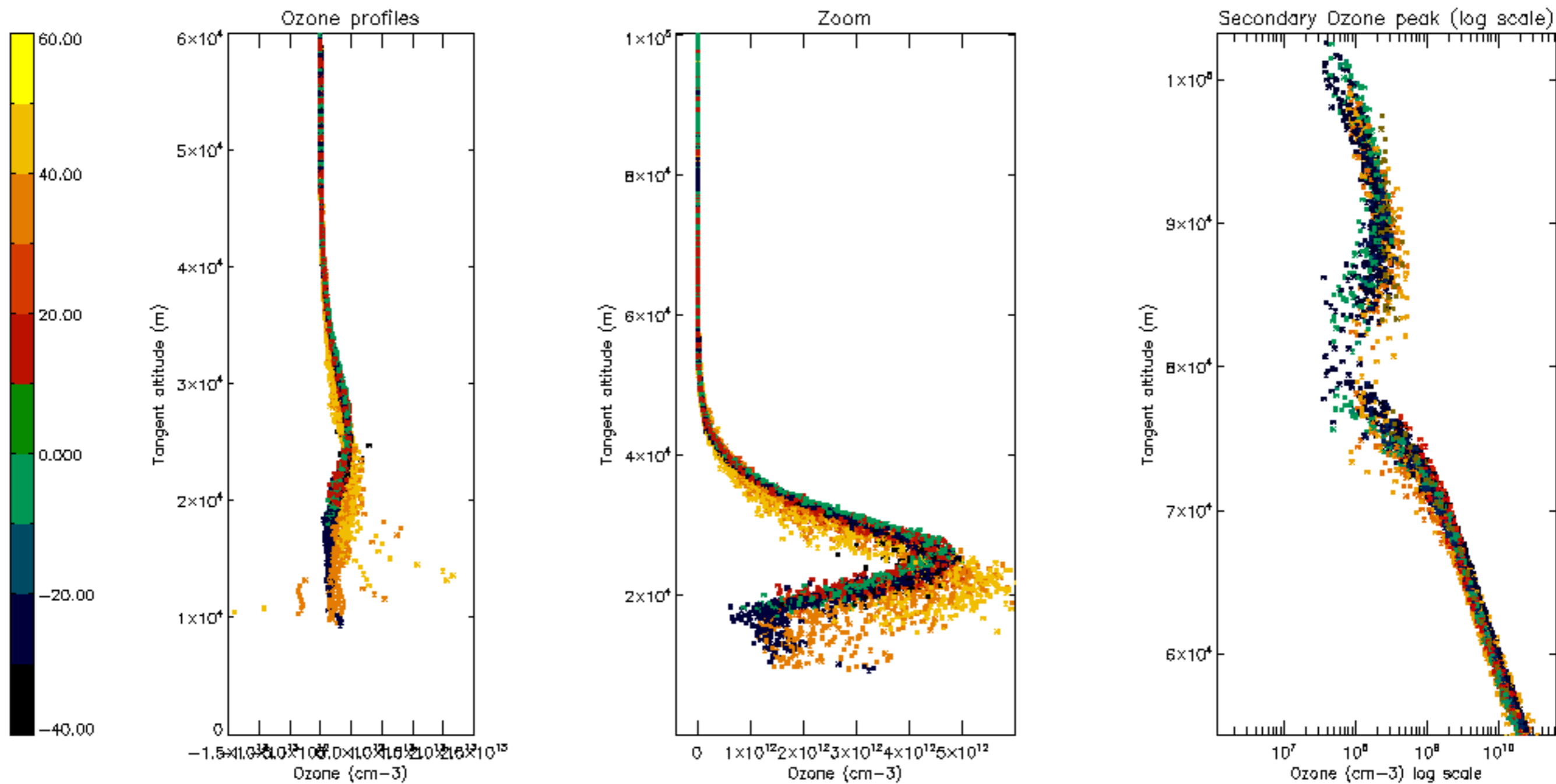
Percentage of star falling outside central band per profile

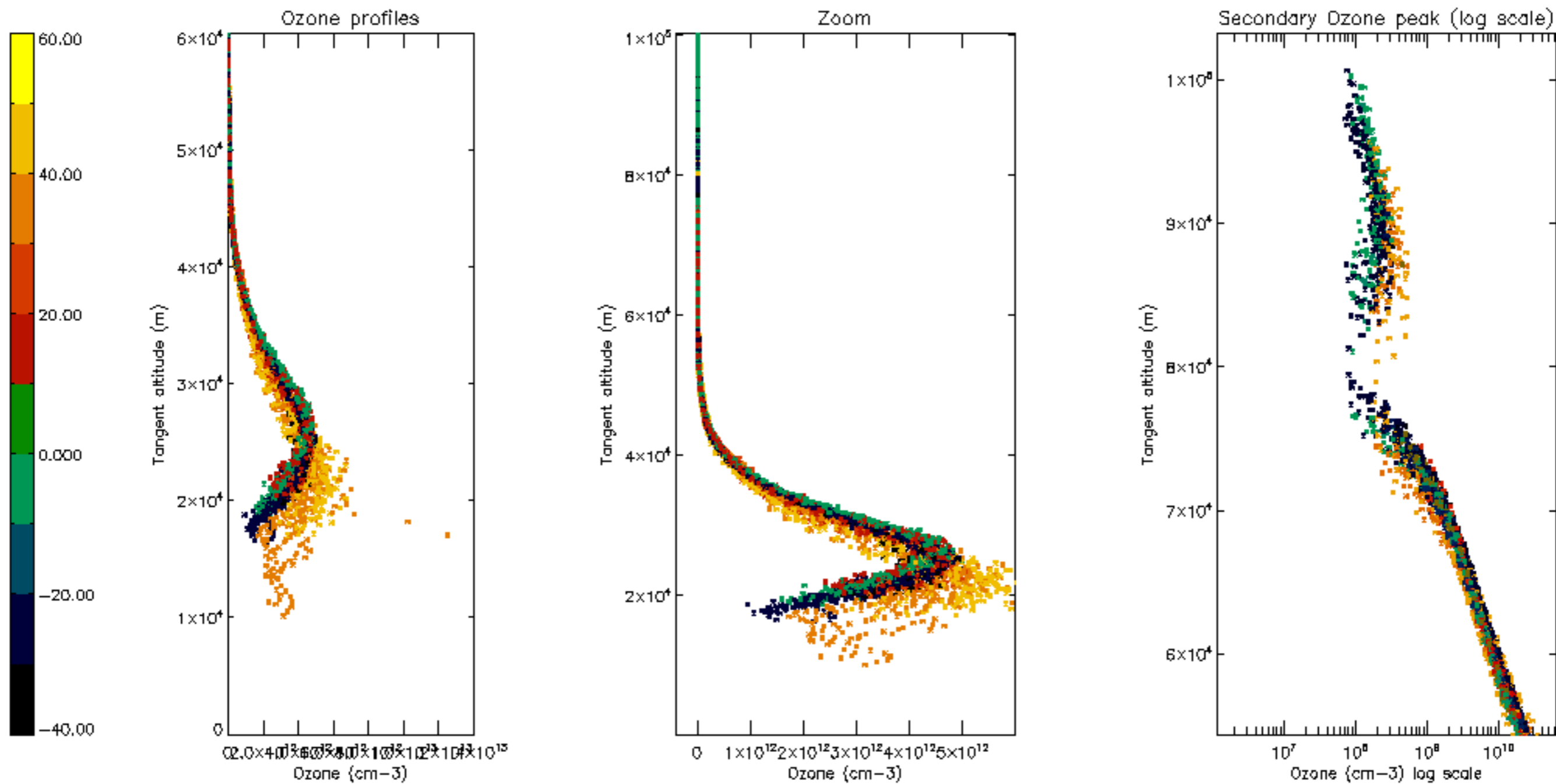


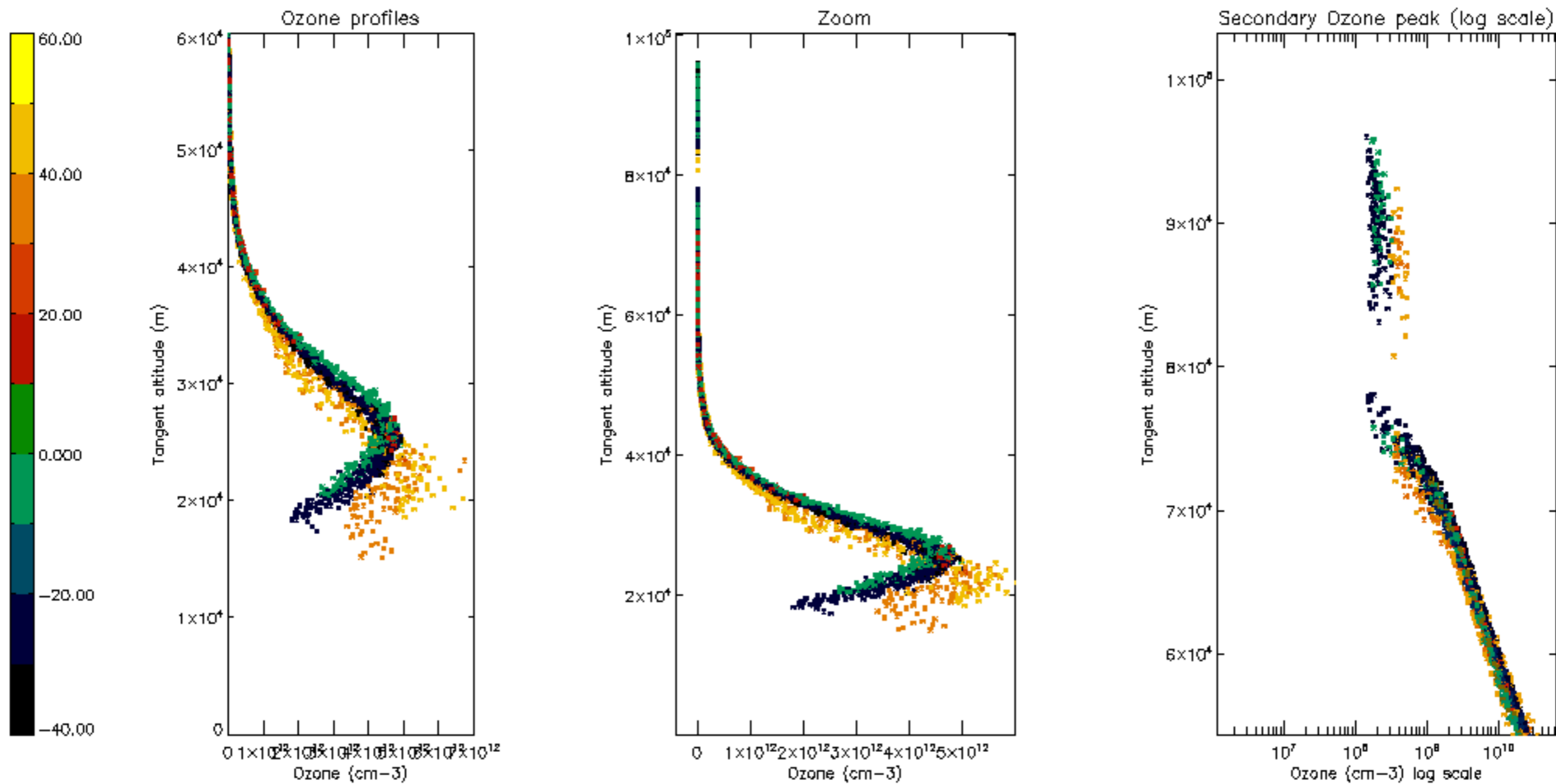
Percentage of saturation errors per profile

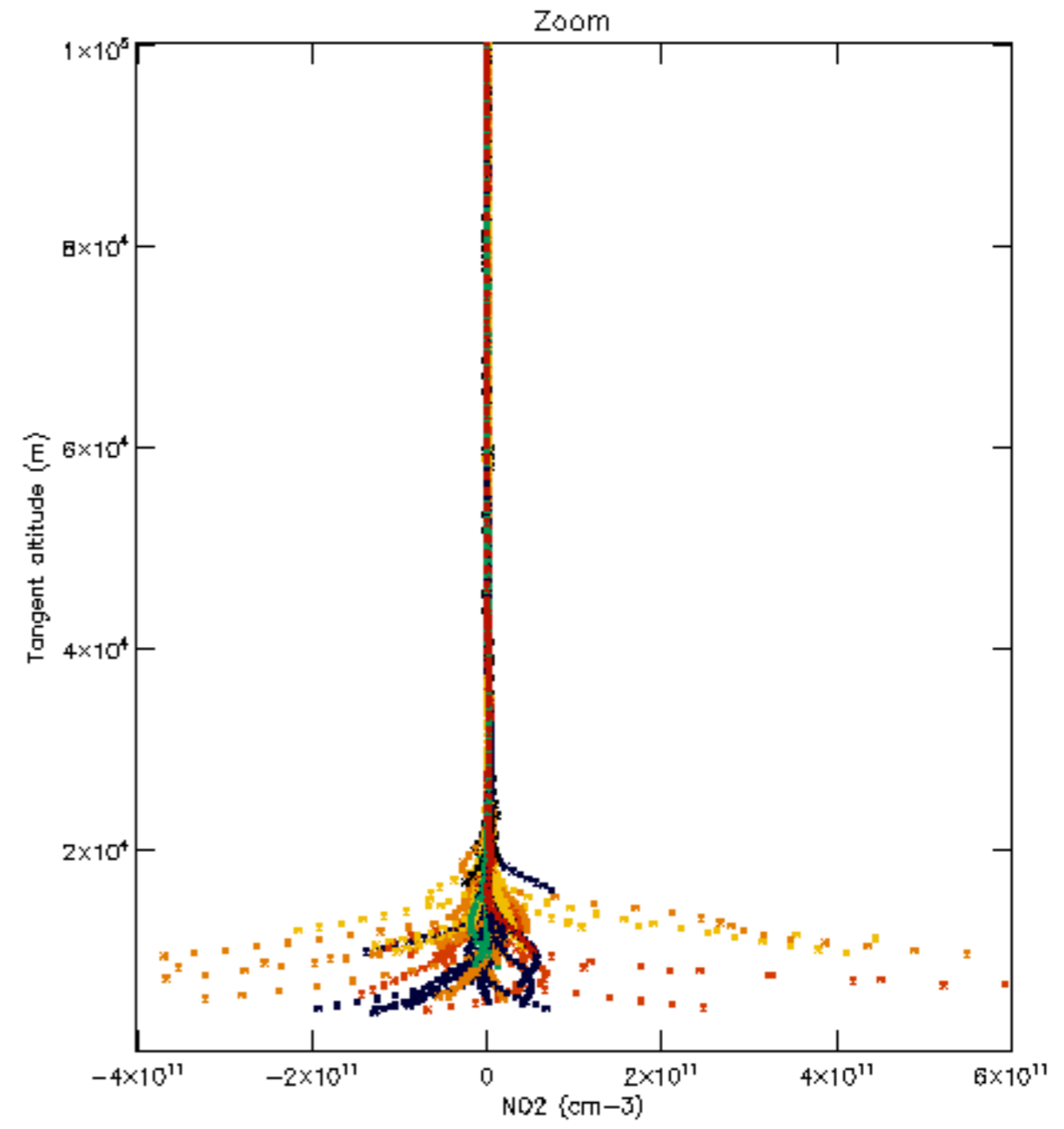
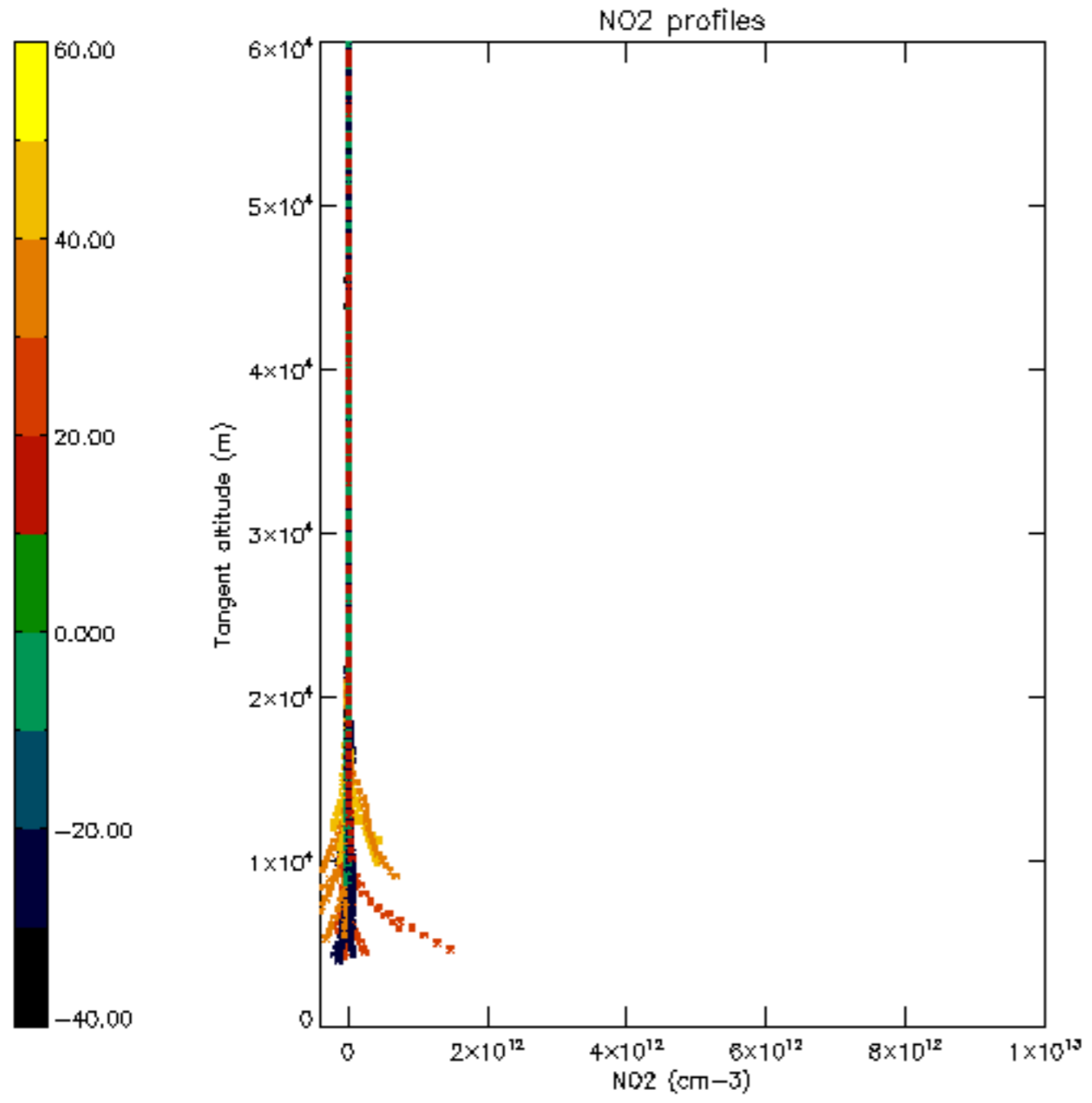


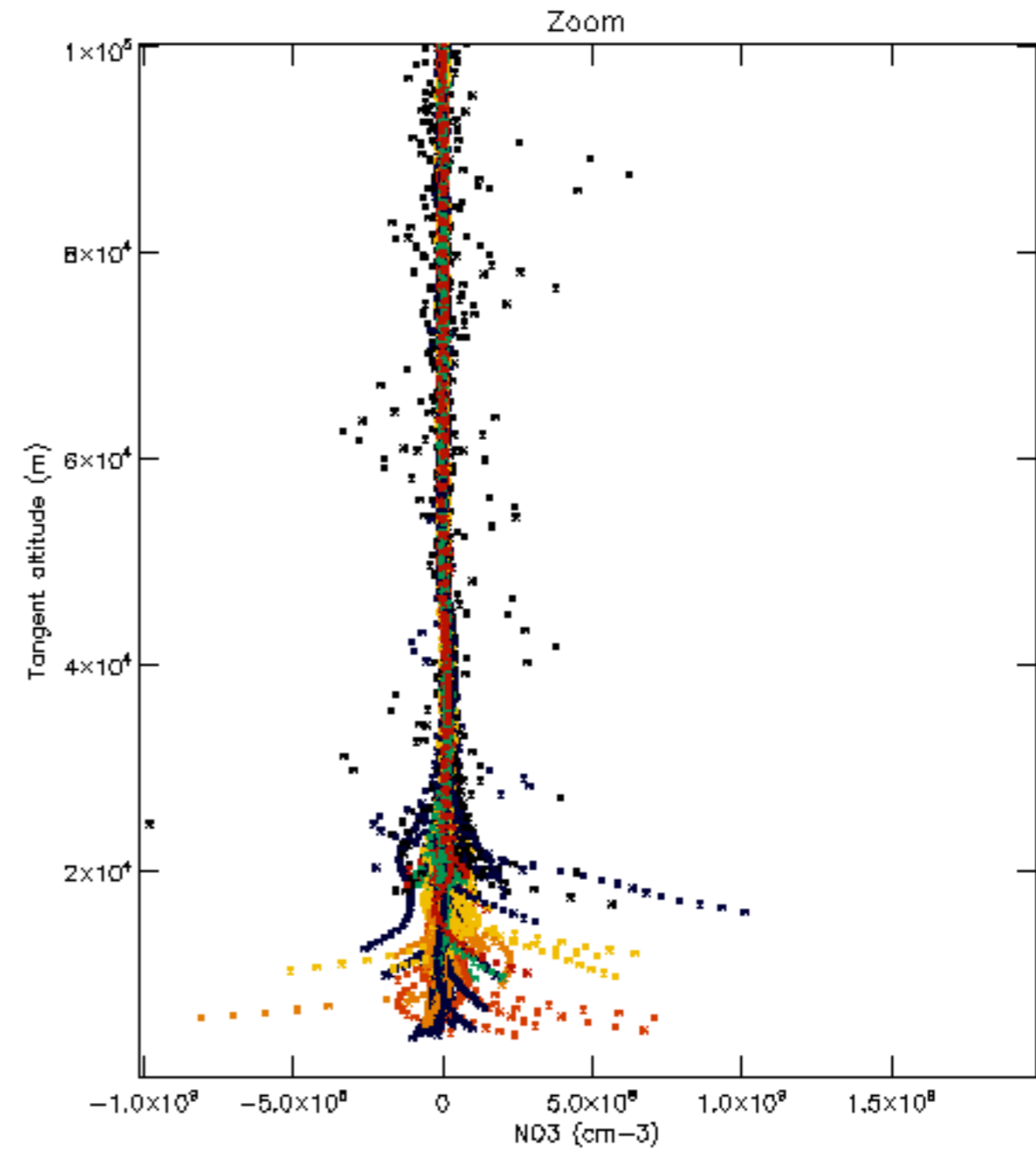
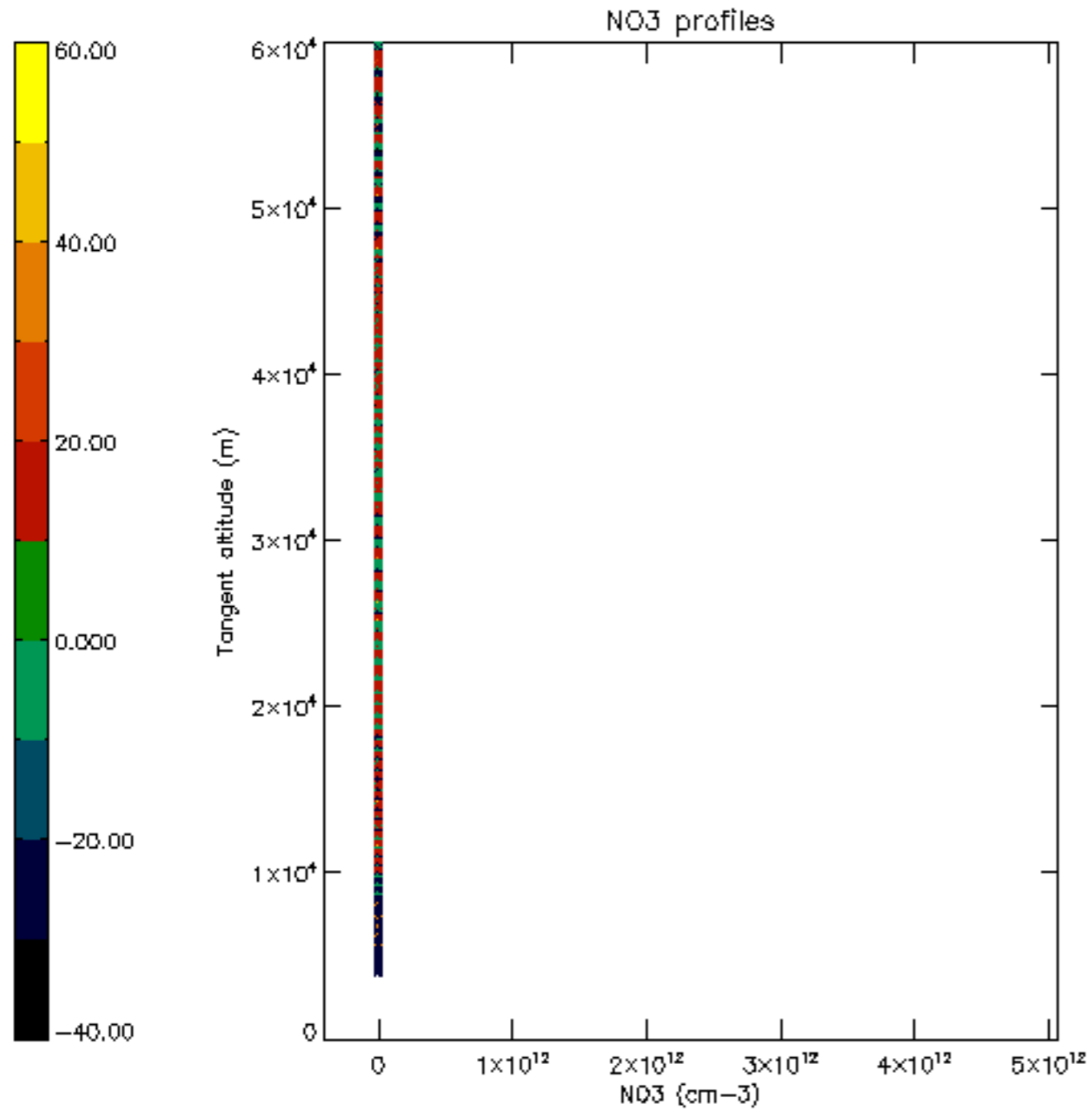


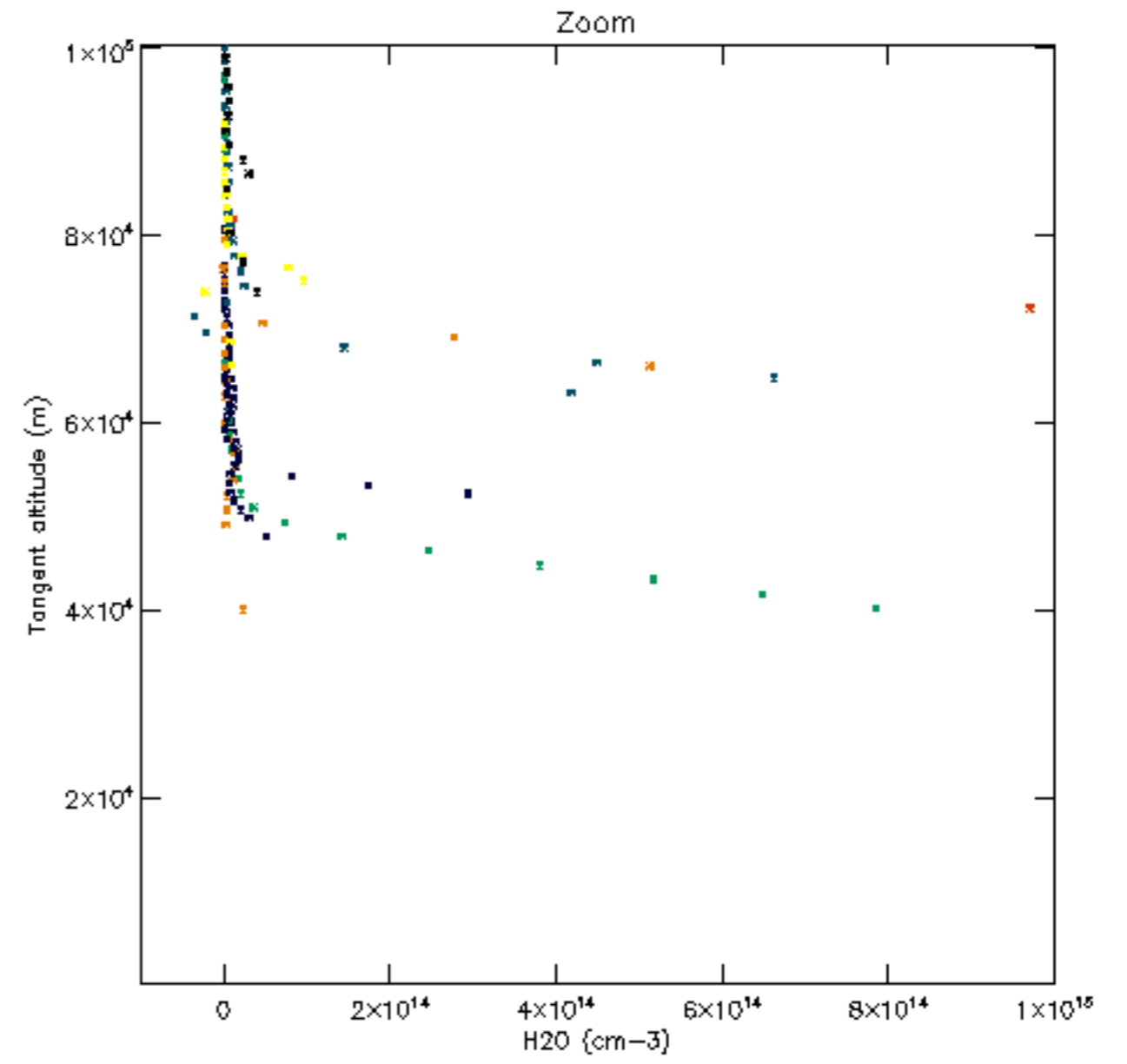
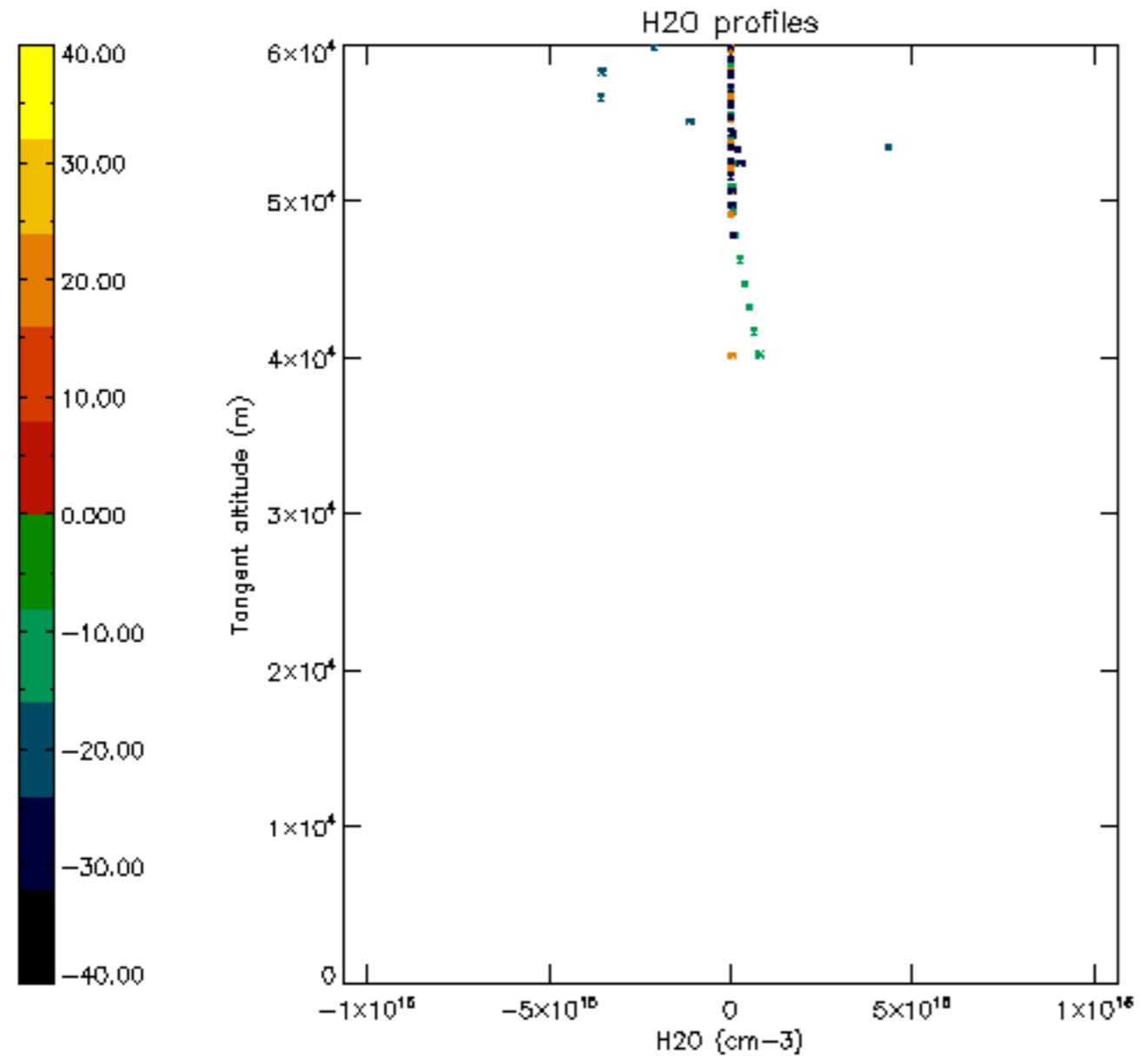


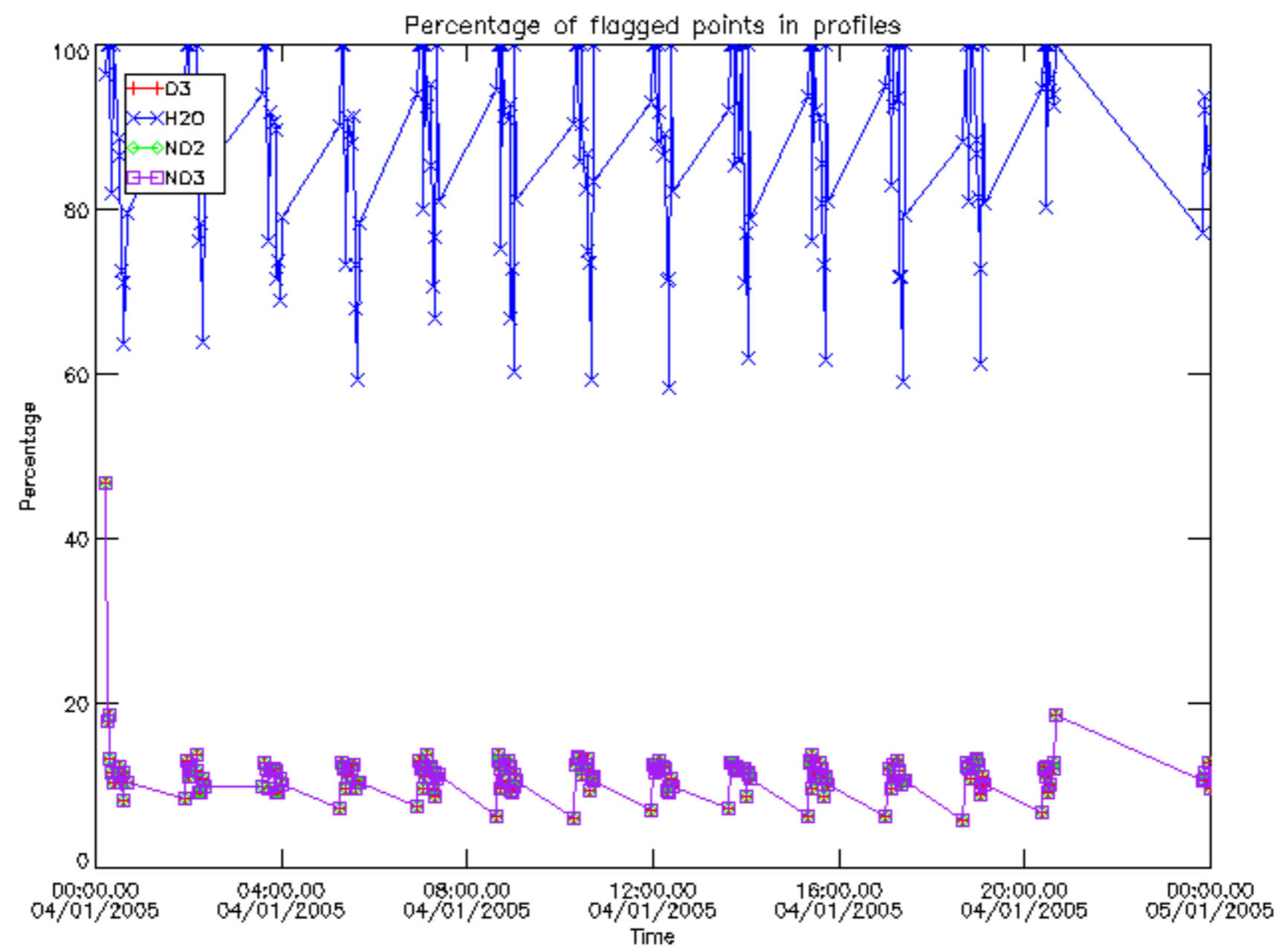




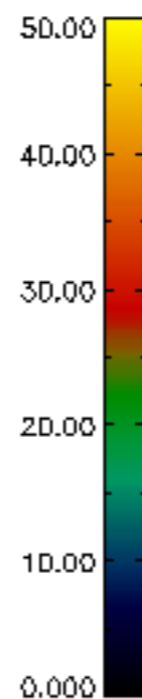
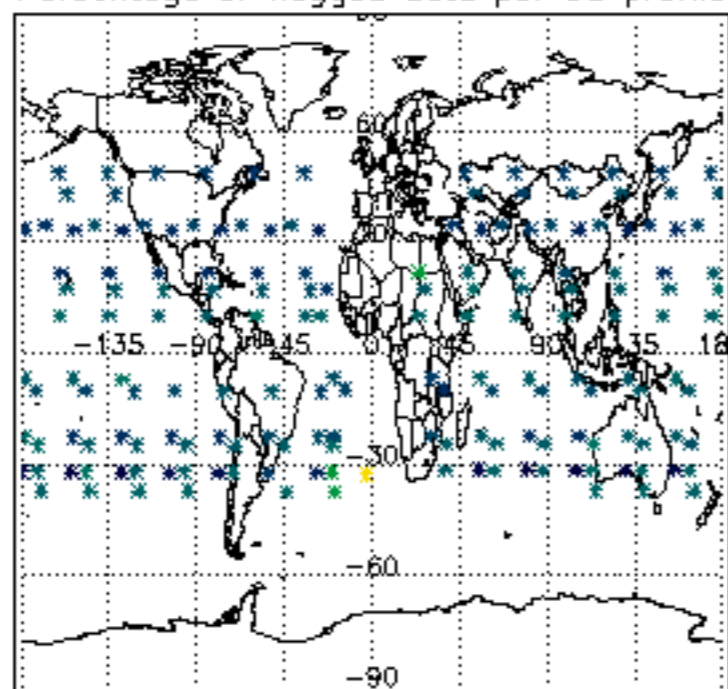




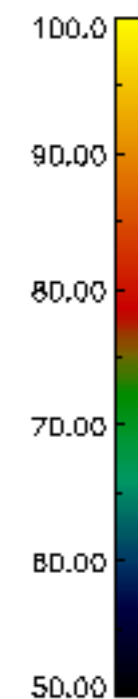
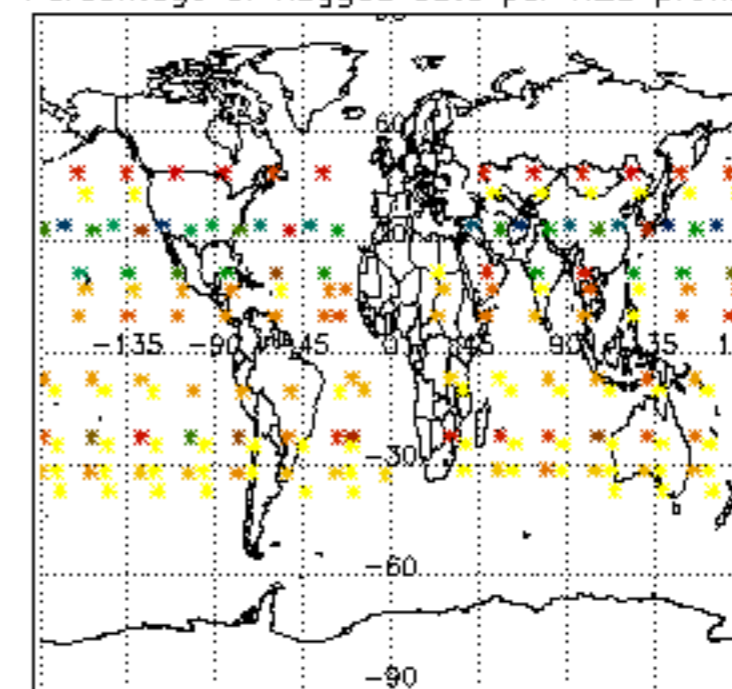




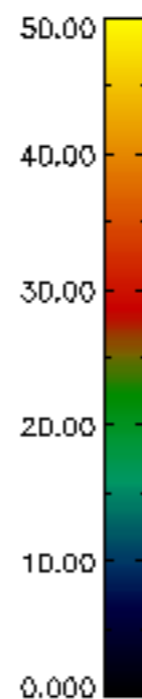
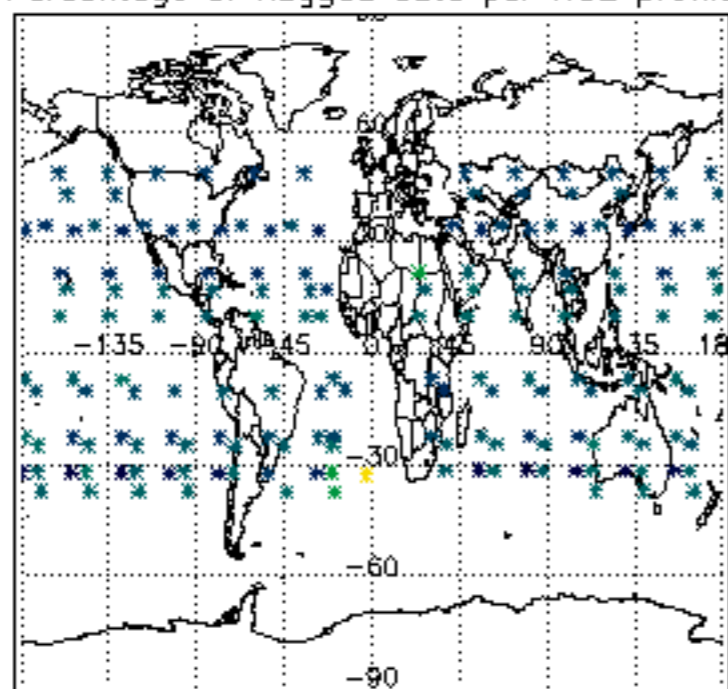
Percentage of flagged data per D3 profile



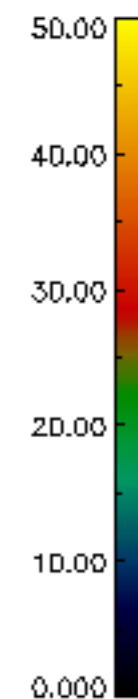
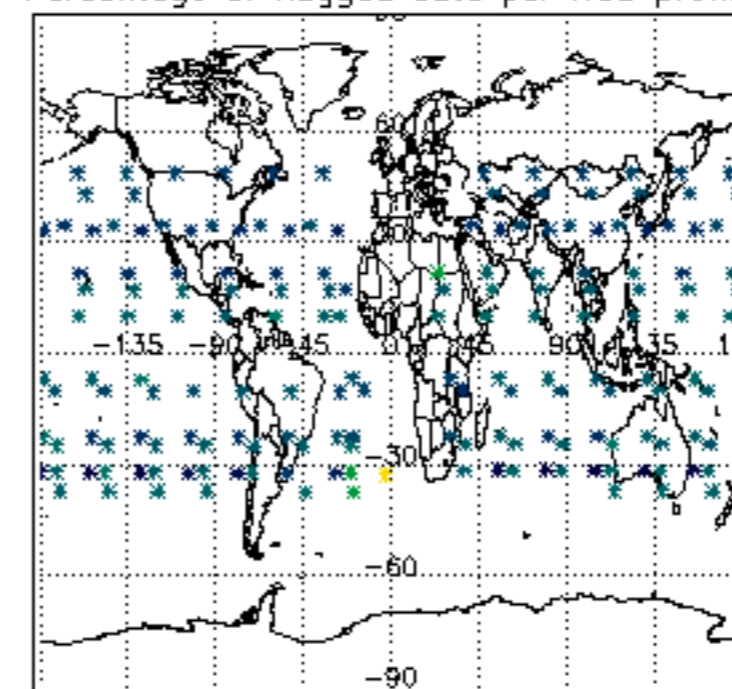
Percentage of flagged data per H2O profile

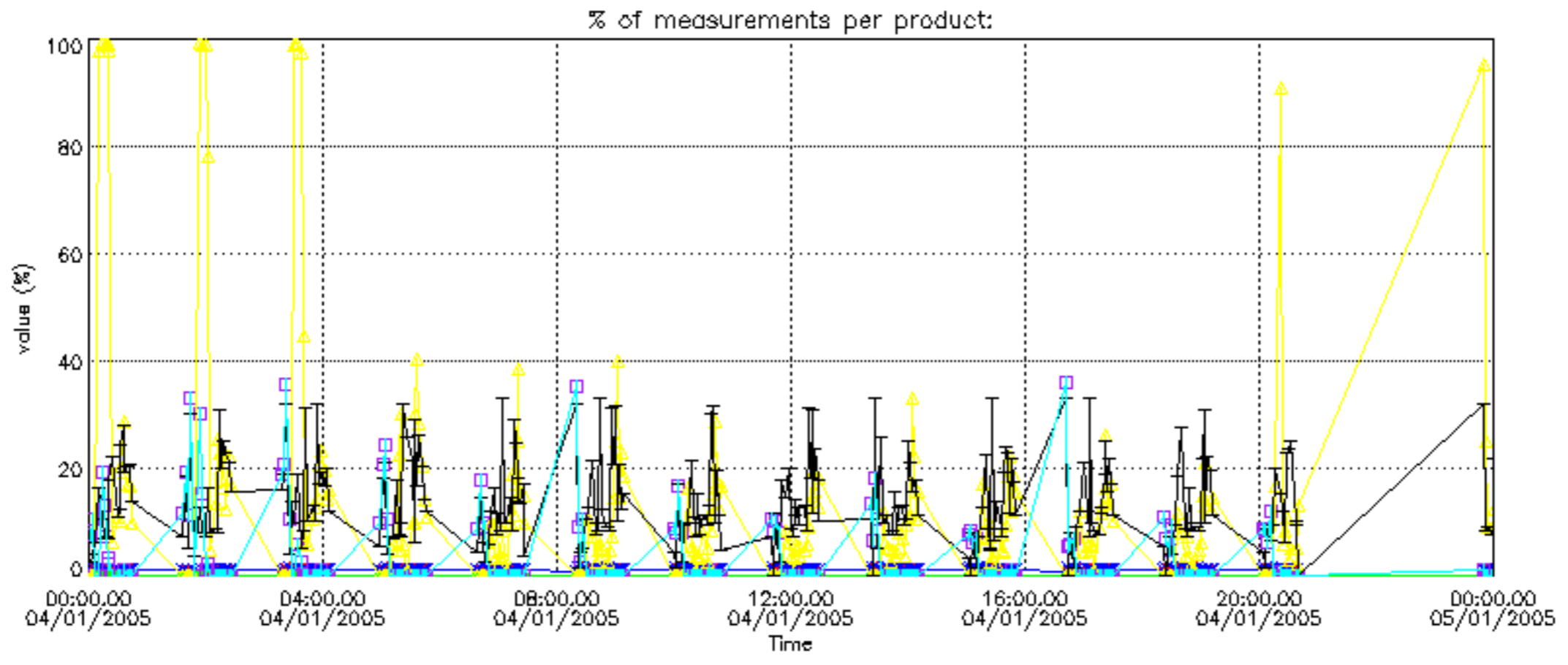


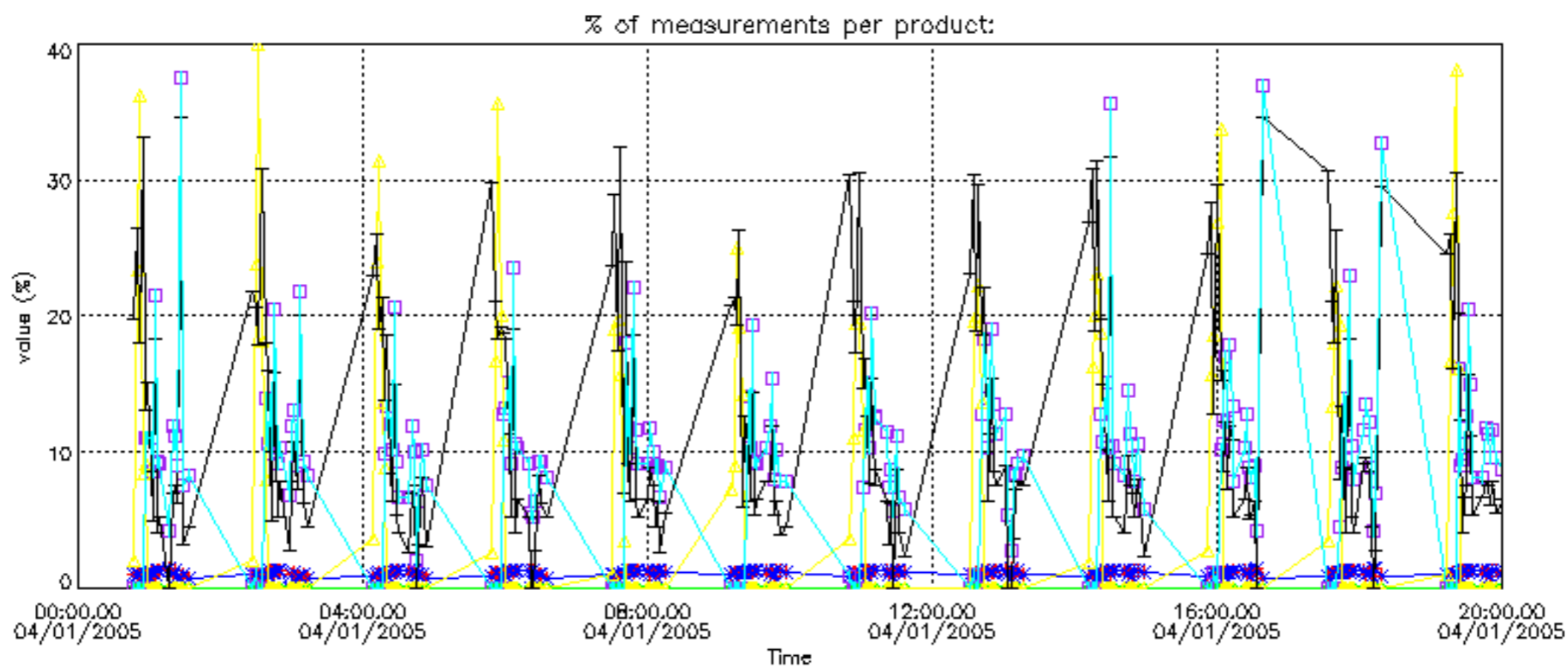
Percentage of flagged data per NO2 profile



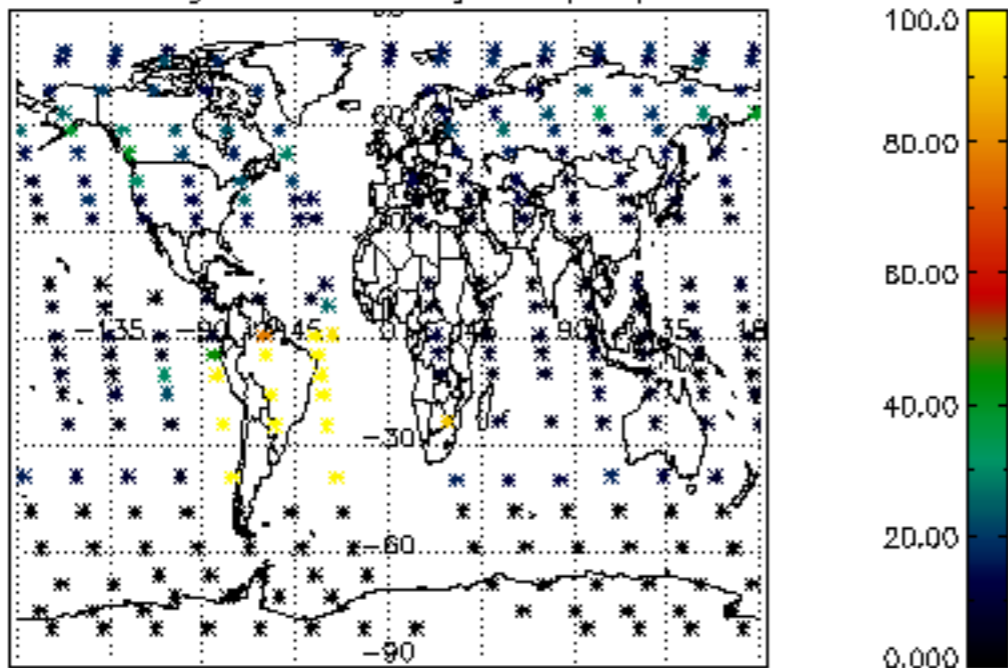
Percentage of flagged data per NO3 profile



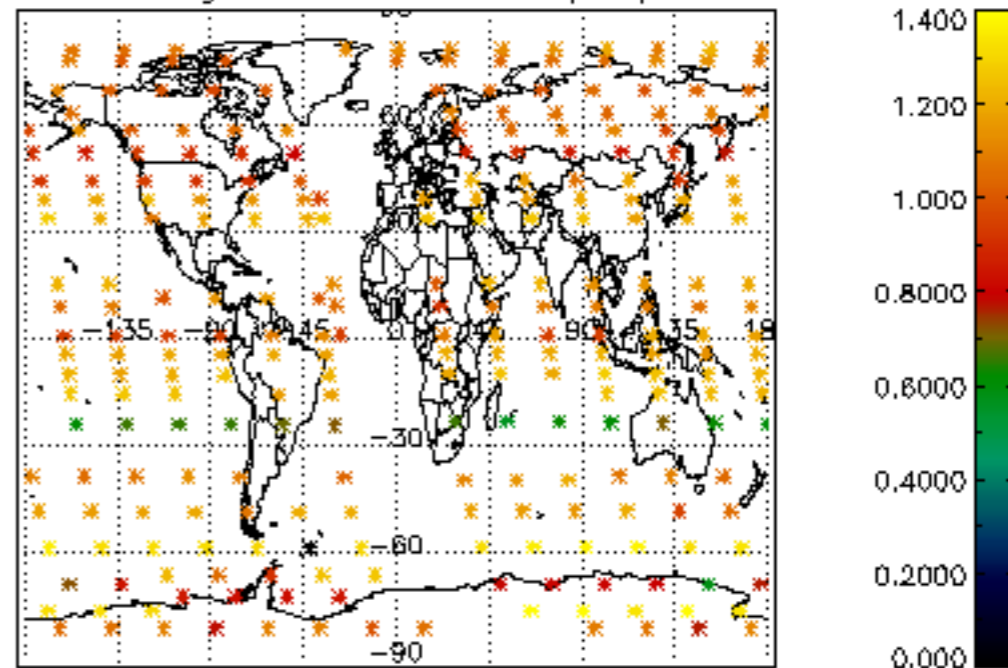




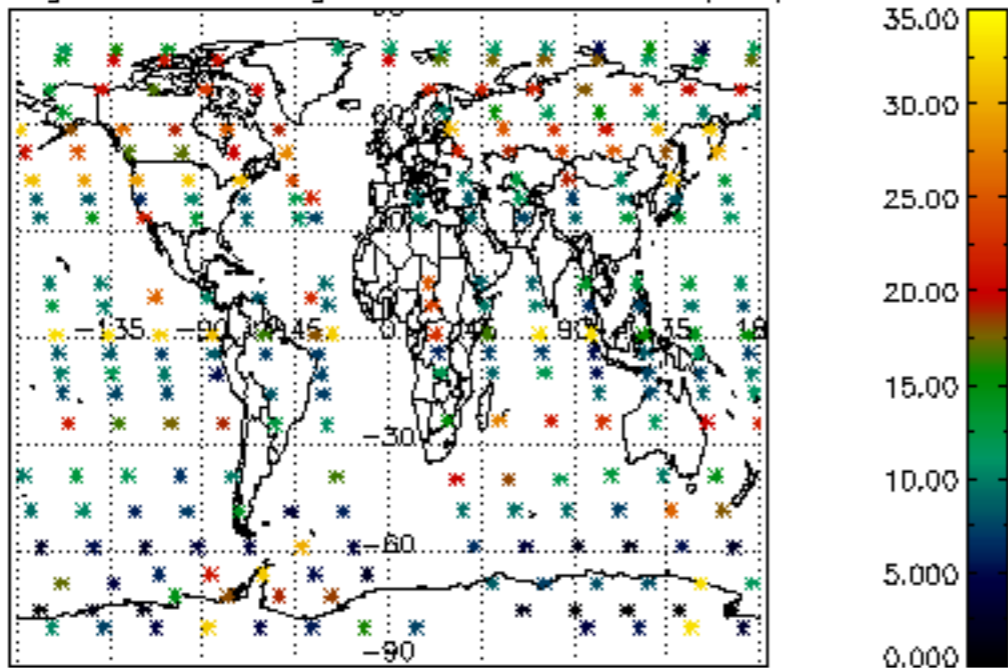
Percentage of cosmic ray hits per profile



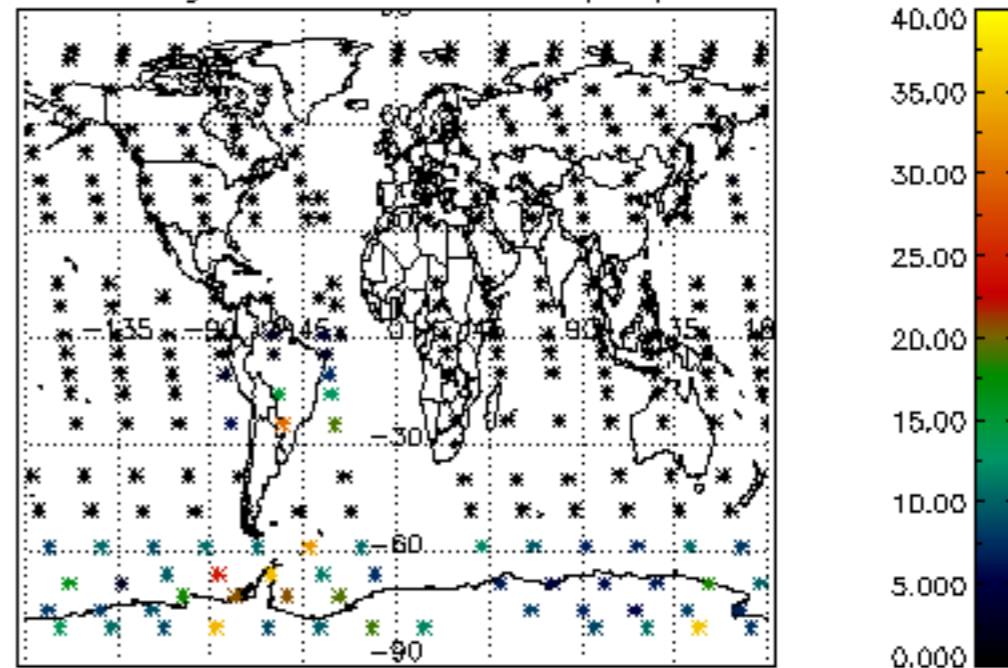
Percentage of datation errors per profile



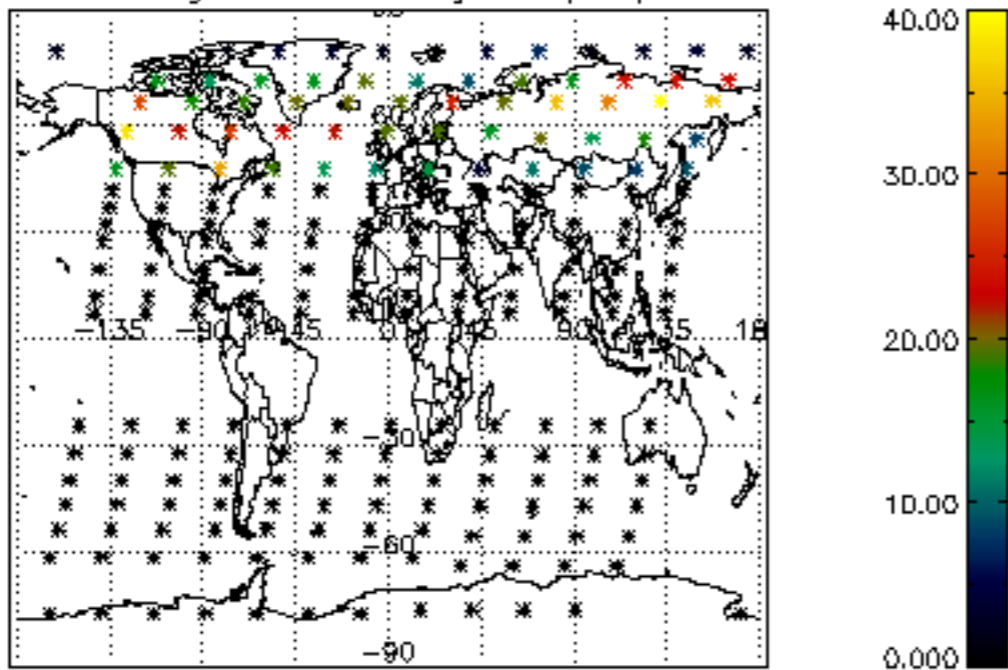
Percentage of star falling outside central band per profile



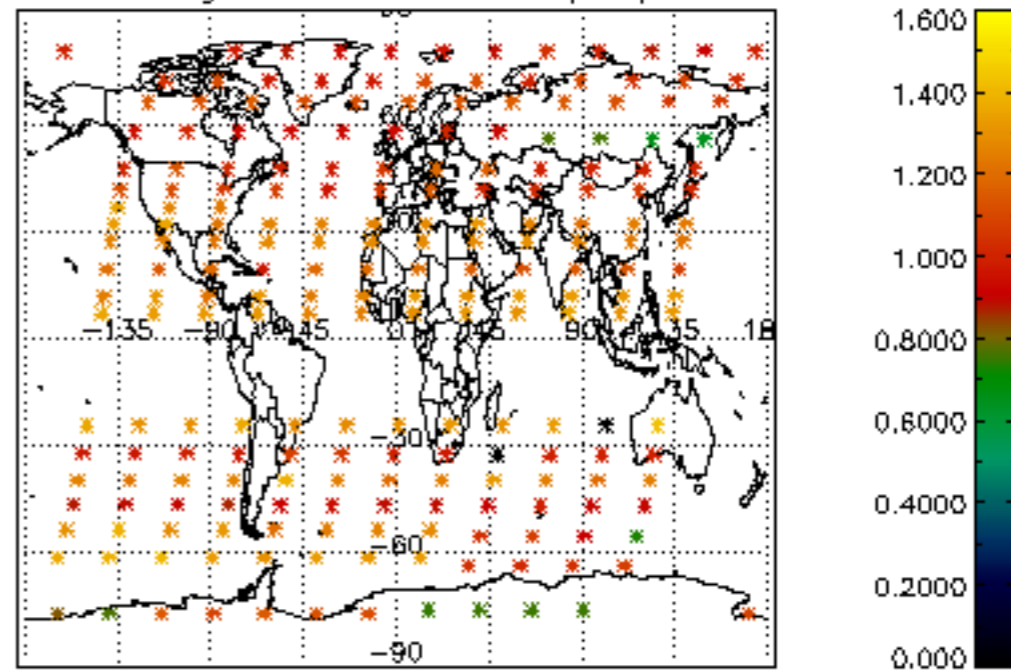
Percentage of saturation errors per profile



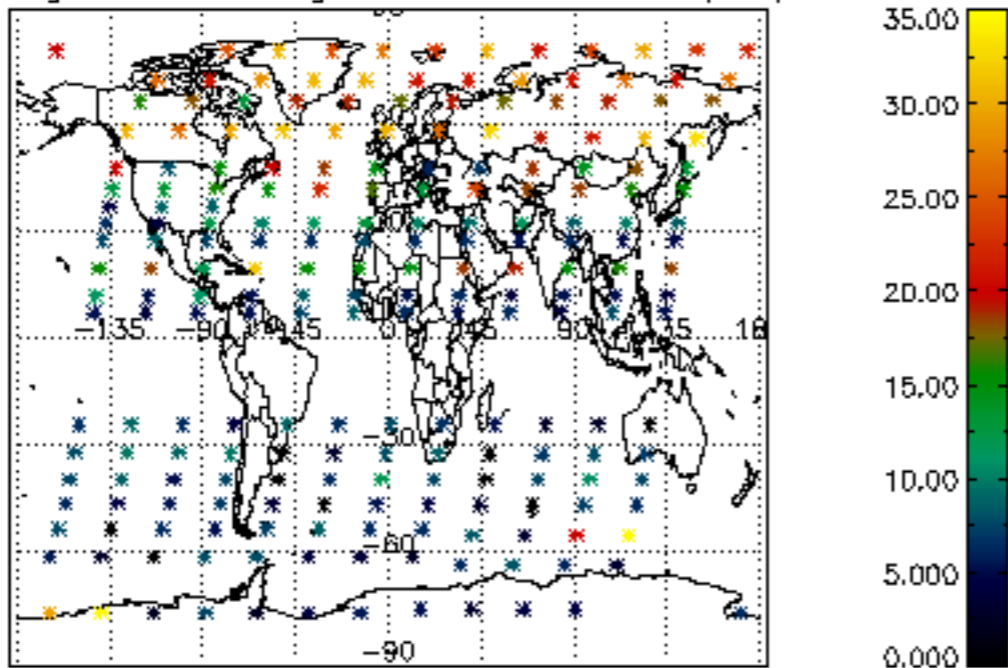
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

