

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	29APR2013 10:37:10
Data source version	GOMOS/6.01
Start time of products	10-05-2010 (10MAY2010 00:00:00)
Stop time of products	11-05-2010 (11MAY2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	311
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

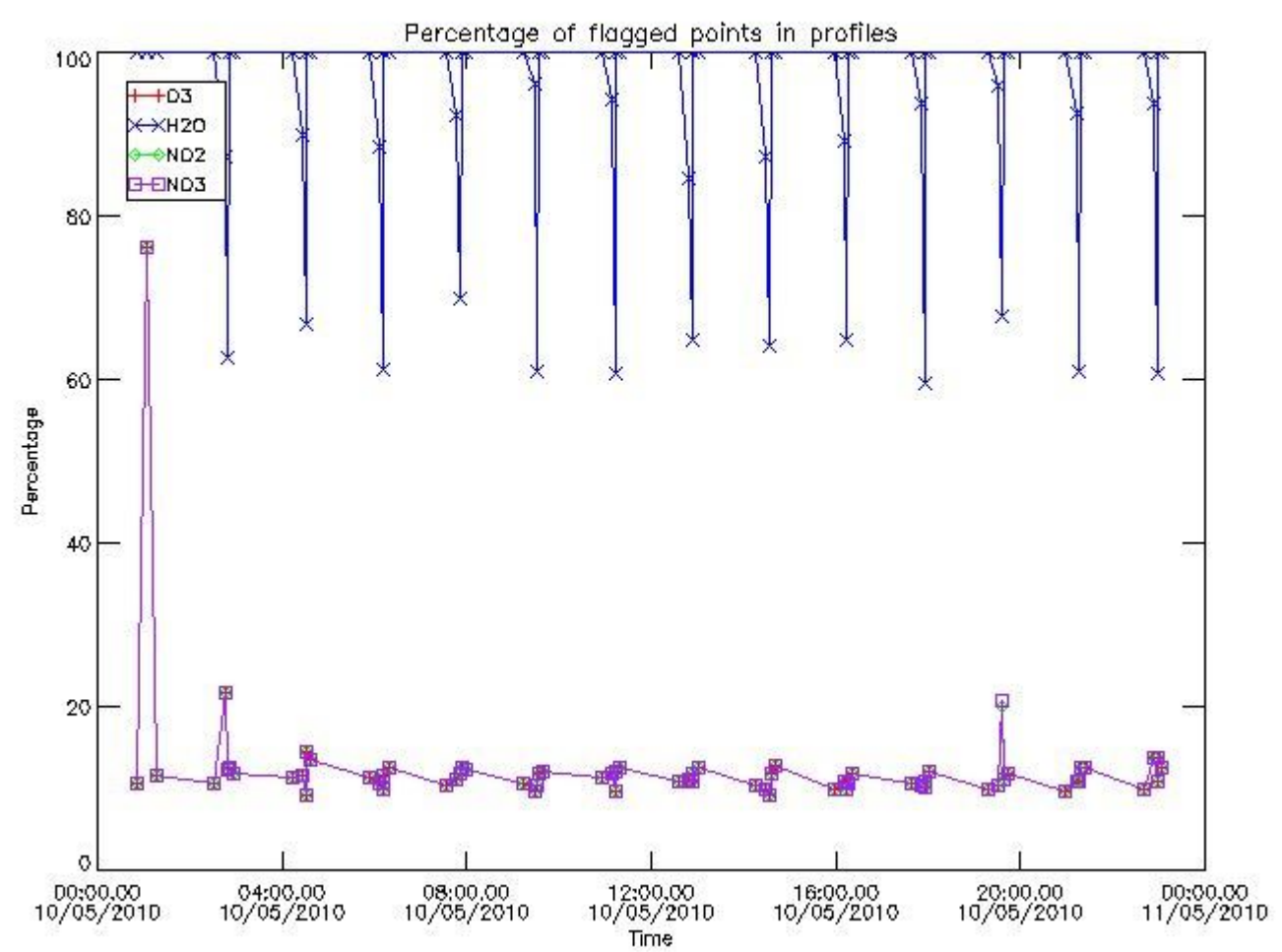
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20100510_000003_000000422089_00188_42827_8669.N1	10-MAY-2010 00:00:03	Bright	41.500	104	27Bet Lib	2.6140	13100.	83	42827	No
2	GOM_NL__2PRFIN20100510_000819_000000372089_00188_42827_8670.N1	10-MAY-2010 00:08:19	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	42827	No
3	GOM_NL__2PRFIN20100510_001122_000000402089_00188_42827_8671.N1	10-MAY-2010 00:11:22	Bright	40.000	83		2.3780	11000.	80	42827	No
4	GOM_NL__2PRFIN20100510_001428_000000392089_00188_42827_8672.N1	10-MAY-2010 00:14:28	Bright	38.500	180	27Gam Boo	3.0400	8000.0	77	42827	No
5	GOM_NL__2PRFIN20100510_001708_000000392089_00188_42827_8673.N1	10-MAY-2010 00:17:08	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	42827	No
6	GOM_NL__2PRFIN20100510_002335_000000452089_00188_42827_8674.N1	10-MAY-2010 00:23:35	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	42827	No
7	GOM_NL__2PRFIN20100510_003424_000000442089_00188_42827_8675.N1	10-MAY-2010 00:34:24	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	42827	No
8	GOM_NL__2PRFIN20100510_003723_000000342089_00188_42827_8676.N1	10-MAY-2010 00:37:23	Bright	34.000	74	11Bet Cas	2.2680	6600.0	68	42827	No
9	GOM_NL__2PRFIN20100510_004718_000000542089_00188_42827_8677.N1	10-MAY-2010 00:47:18	Twilight	53.500	93	53Bet Peg	2.5200	3100.0	107	42827	No
10	GOM_NL__2PRFIN20100510_005018_000000422089_00188_42827_8678.N1	10-MAY-2010 00:50:18	Twilight	42.000	140	88Gam Peg	2.8340	26000.	84	42827	No
11	GOM_NL__2PRFIN20100510_005138_000000482089_00188_42827_8679.N1	10-MAY-2010 00:51:38	Dark	48.000	90	54Alp Peg	2.4870	11000.	96	42827	No
12	GOM_NL__2PRFIN20100510_010453_000000472089_00188_42827_8680.N1	10-MAY-2010 01:04:53	Dark	46.500	18	24Alp PsA	1.1660	9700.0	93	42827	No
13	GOM_NL__2PRFIN20100510_011620_000000452089_00189_42828_8433.N1	10-MAY-2010 01:16:20	Dark	44.500	45	Alp Pav	1.9400	26000.	89	42828	No
14	GOM_NL__2PRFIN20100510_012345_000000482089_00189_42828_8434.N1	10-MAY-2010 01:23:45	Straylight	48.000	141	Bet Ara	2.8400	4600.0	96	42828	No
15	GOM_NL__2PRFIN20100510_012605_000000512089_00189_42828_8435.N1	10-MAY-2010 01:26:05	Straylight	50.500	40	The Sco	1.8590	7100.0	101	42828	No
16	GOM_NL__2PRFIN20100510_012756_000000572089_00189_42828_8436.N1	10-MAY-2010 01:27:56	Straylight	56.500	25	35Lam Sco	1.6200	28000.	113	42828	No
17	GOM_NL__2PRFIN20100510_013034_000000532089_00189_42828_8437.N1	10-MAY-2010 01:30:34	Straylight	53.000	75	26Eps Sco	2.2910	4250.0	106	42828	No
18	GOM_NL__2PRFIN20100510_013354_000000692089_00189_42828_8438.N1	10-MAY-2010 01:33:54	Twilight	68.500	16	21Alp Sco	1.0200	3000.0	137	42828	No
19	GOM_NL__2PRFIN20100510_013549_000000582089_00189_42828_8439.N1	10-MAY-2010 01:35:49	Bright	58.000	80	7Del Sco	2.3160	30000.	116	42828	No
20	GOM_NL__2PRFIN20100510_013839_000000402089_00189_42828_8440.N1	10-MAY-2010 01:38:39	Bright	39.500	122	9Alp2Lib	2.7470	9700.0	79	42828	No
21	GOM_NL__2PRFIN20100510_014039_000000432089_00189_42828_8441.N1	10-MAY-2010 01:40:39	Bright	42.500	104	27Bet Lib	2.6140	13100.	85	42828	No
22	GOM_NL__2PRFIN20100510_014855_000000362089_00189_42828_8442.N1	10-MAY-2010 01:48:55	Bright	36.000	111	8Eta Boo	2.6800	6000.0	72	42828	No
23	GOM_NL__2PRFIN20100510_015158_000000412089_00189_42828_8443.N1	10-MAY-2010 01:51:58	Bright	40.500	83		2.3780	11000.	81	42828	No
24	GOM_NL__2PRFIN20100510_015504_000000382089_00189_42828_8444.N1	10-MAY-2010 01:55:04	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	42828	No
25	GOM_NL__2PRFIN20100510_015744_000000382089_00189_42828_8445.N1	10-MAY-2010 01:57:44	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	42828	No
26	GOM_NL__2PRFIN20100510_020410_000000402089_00189_42828_8446.N1	10-MAY-2010 02:04:10	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	42828	No
27	GOM_NL__2PRFIN20100510_021459_000000452089_00189_42828_8447.N1	10-MAY-2010 02:14:59	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	42828	No
28	GOM_NL__2PRFIN20100510_021759_000000542089_00189_42828_8448.N1	10-MAY-2010 02:17:59	Bright	54.000	74	11Bet Cas	2.2680	6600.0	108	42828	No
29	GOM_NL__2PRFIN20100510_022755_000000532089_00189_42828_8449.N1	10-MAY-2010 02:27:55	Twilight	52.500	93	53Bet Peg	2.5200	3100.0	105	42828	No
30	GOM_NL__2PRFIN20100510_023054_000000422089_00189_42828_8450.N1	10-MAY-2010 02:30:54	Twilight	41.500	140	88Gam Peg	2.8340	26000.	83	42828	No
31	GOM_NL__2PRFIN20100510_023215_000000492089_00189_42828_8451.N1	10-MAY-2010 02:32:15	Dark	48.500	90	54Alp Peg	2.4870	11000.	97	42828	No
32	GOM_NL__2PRFIN20100510_024530_000000472089_00189_42828_8452.N1	10-MAY-2010 02:45:30	Dark	47.000	18	24Alp PsA	1.1660	9700.0	94	42828	No
33	GOM_NL__2PRFIN20100510_025004_000000542089_00189_42828_8453.N1	10-MAY-2010 02:50:04	Dark	54.000	63	Bet Gru	2.1500	2800.0	108	42828	No
34	GOM_NL__2PRFIN20100510_025121_000000412089_00189_42828_8454.N1	10-MAY-2010 02:51:21	Dark	40.500	31	Alp Gru	1.7340	15200.	81	42828	No
35	GOM_NL__2PRFIN20100510_025656_000000432089_00190_42829_8441.N1	10-MAY-2010 02:56:56	Dark	43.000	45	Alp Pav	1.9400	26000.	86	42829	No
36	GOM_NL__2PRFIN20100510_030422_000000512089_00190_42829_8442.N1	10-MAY-2010 03:04:22	Straylight	51.000	141	Bet Ara	2.8400	4600.0	102	42829	No
37	GOM_NL__2PRFIN20100510_030641_000000542089_00190_42829_8443.N1	10-MAY-2010 03:06:41	Straylight	53.500	40	The Sco	1.8590	7100.0	107	42829	No
38	GOM_NL__2PRFIN20100510_030833_000000582089_00190_42829_8444.N1	10-MAY-2010 03:08:33	Straylight	57.500	25	35Lam Sco	1.6200	28000.	115	42829	No
39	GOM_NL__2PRFIN20100510_031111_000000602089_00190_42829_8445.N1	10-MAY-2010 03:11:11	Straylight	59.500	75	26Eps Sco	2.2910	4250.0	119	42829	No
40	GOM_NL__2PRFIN20100510_031431_000000632089_00190_42829_8446.N1	10-MAY-2010 03:14:31	Twilight	63.000	16	21Alp Sco	1.0200	3000.0	126	42829	No
41	GOM_NL__2PRFIN20100510_031625_000000552089_00190_42829_8447.N1	10-MAY-2010 03:16:25	Bright	54.500	80	7Del Sco	2.3160	30000.	109	42829	No
42	GOM_NL__2PRFIN20100510_031915_000000402089_00190_42829_8448.N1	10-MAY-2010 03:19:15	Bright	40.000	122	9Alp2Lib	2.7470	9700.0	80	42829	No

279	GOM_NL__2PRFIN20100510_213516_000000552089_00201_42840_8778.N1	10-MAY-2010 21:35:16	Straylight	54.500	25	35Lam Sco	1.6200	28000.	109	42840	No
280	GOM_NL__2PRFIN20100510_213752_000000562089_00201_42840_8779.N1	10-MAY-2010 21:37:52	Straylight	55.500	75	26Eps Sco	2.2910	4250.0	111	42840	No
281	GOM_NL__2PRFIN20100510_214110_000000642089_00201_42840_8780.N1	10-MAY-2010 21:41:10	Twilight	63.500	16	21Alp Sco	1.0200	3000.0	127	42840	No
282	GOM_NL__2PRFIN20100510_214303_000000582089_00201_42840_8781.N1	10-MAY-2010 21:43:03	Bright	57.500	80	7Del Sco	2.3160	30000.	115	42840	No
283	GOM_NL__2PRFIN20100510_214551_000000402089_00201_42840_8782.N1	10-MAY-2010 21:45:51	Bright	39.500	122	9Alp2Lib	2.7470	9700.0	79	42840	No
284	GOM_NL__2PRFIN20100510_214750_000000412089_00201_42840_8783.N1	10-MAY-2010 21:47:50	Bright	41.000	104	27Bet Lib	2.6140	13100.	82	42840	No
285	GOM_NL__2PRFIN20100510_215606_000000352089_00201_42840_8784.N1	10-MAY-2010 21:56:06	Bright	35.000	111	8Eta Boo	2.6800	6000.0	70	42840	No
286	GOM_NL__2PRFIN20100510_215906_000000432089_00201_42840_8785.N1	10-MAY-2010 21:59:06	Bright	43.000	83		2.3780	11000.	86	42840	No
287	GOM_NL__2PRFIN20100510_220212_000000392089_00201_42840_8786.N1	10-MAY-2010 22:02:12	Bright	38.500	180	27Gam Boo	3.0400	8000.0	77	42840	No
288	GOM_NL__2PRFIN20100510_220454_000000392089_00201_42840_8787.N1	10-MAY-2010 22:04:54	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	42840	No
289	GOM_NL__2PRFIN20100510_221115_000000432089_00201_42840_8788.N1	10-MAY-2010 22:11:15	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	42840	No
290	GOM_NL__2PRFIN20100510_222205_000000572089_00201_42840_8789.N1	10-MAY-2010 22:22:05	Bright	56.500	89	5Alp Cep	2.4510	8000.0	113	42840	No
291	GOM_NL__2PRFIN20100510_222510_000000542089_00201_42840_8790.N1	10-MAY-2010 22:25:10	Bright	54.000	74	11Bet Cas	2.2680	6600.0	108	42840	No
292	GOM_NL__2PRFIN20100510_223508_000000522089_00201_42840_8791.N1	10-MAY-2010 22:35:08	Twilight	51.500	93	53Bet Peg	2.5200	3100.0	103	42840	No
293	GOM_NL__2PRFIN20100510_223808_000000432089_00201_42840_8792.N1	10-MAY-2010 22:38:08	Twilight	42.500	140	88Gam Peg	2.8340	26000.	85	42840	No
294	GOM_NL__2PRFIN20100510_223931_000000522089_00201_42840_8793.N1	10-MAY-2010 22:39:31	Dark	51.500	90	54Alp Peg	2.4870	11000.	103	42840	No
295	GOM_NL__2PRFIN20100510_225249_000000482089_00201_42840_8794.N1	10-MAY-2010 22:52:49	Dark	48.000	18	24Alp PsA	1.1660	9700.0	96	42840	No
296	GOM_NL__2PRFIN20100510_225720_000000482089_00201_42840_8795.N1	10-MAY-2010 22:57:20	Dark	47.500	63	Bet Gru	2.1500	2800.0	95	42840	No
297	GOM_NL__2PRFIN20100510_225840_000000412089_00201_42840_8796.N1	10-MAY-2010 22:58:40	Dark	40.500	31	Alp Gru	1.7340	15200.	81	42840	No
298	GOM_NL__2PRFIN20100510_230416_000000412089_00202_42841_8783.N1	10-MAY-2010 23:04:16	Dark	41.000	45	Alp Pav	1.9400	26000.	82	42841	No
299	GOM_NL__2PRFIN20100510_231140_000000422089_00202_42841_8784.N1	10-MAY-2010 23:11:40	Straylight	41.500	141	Bet Ara	2.8400	4600.0	83	42841	No
300	GOM_NL__2PRFIN20100510_231402_000000492089_00202_42841_8785.N1	10-MAY-2010 23:14:02	Straylight	48.500	40	The Sco	1.8590	7100.0	97	42841	No
301	GOM_NL__2PRFIN20100510_231553_000000562089_00202_42841_8786.N1	10-MAY-2010 23:15:53	Straylight	56.000	25	35Lam Sco	1.6200	28000.	112	42841	No
302	GOM_NL__2PRFIN20100510_231829_000000522089_00202_42841_8787.N1	10-MAY-2010 23:18:29	Straylight	51.500	75	26Eps Sco	2.2910	4250.0	103	42841	No
303	GOM_NL__2PRFIN20100510_232146_000000652089_00202_42841_8788.N1	10-MAY-2010 23:21:46	Twilight	64.500	16	21Alp Sco	1.0200	3000.0	129	42841	No
304	GOM_NL__2PRFIN20100510_232339_000000612089_00202_42841_8789.N1	10-MAY-2010 23:23:39	Bright	60.500	80	7Del Sco	2.3160	30000.	121	42841	No
305	GOM_NL__2PRFIN20100510_232627_000000412089_00202_42841_8790.N1	10-MAY-2010 23:26:27	Bright	40.500	122	9Alp2Lib	2.7470	9700.0	81	42841	No
306	GOM_NL__2PRFIN20100510_232826_000000432089_00202_42841_8791.N1	10-MAY-2010 23:28:26	Bright	43.000	104	27Bet Lib	2.6140	13100.	86	42841	No
307	GOM_NL__2PRFIN20100510_233642_000000362089_00202_42841_8792.N1	10-MAY-2010 23:36:42	Bright	35.500	111	8Eta Boo	2.6800	6000.0	71	42841	No
308	GOM_NL__2PRFIN20100510_233941_000000442089_00202_42841_8793.N1	10-MAY-2010 23:39:41	Bright	43.500	83		2.3780	11000.	87	42841	No
309	GOM_NL__2PRFIN20100510_234247_000000382089_00202_42841_8794.N1	10-MAY-2010 23:42:47	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	42841	No
310	GOM_NL__2PRFIN20100510_234530_000000362089_00202_42841_8795.N1	10-MAY-2010 23:45:30	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	42841	No
311	GOM_NL__2PRFIN20100510_235150_000000442089_00202_42841_8796.N1	10-MAY-2010 23:51:50	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	42841	No

3. Quality information per product

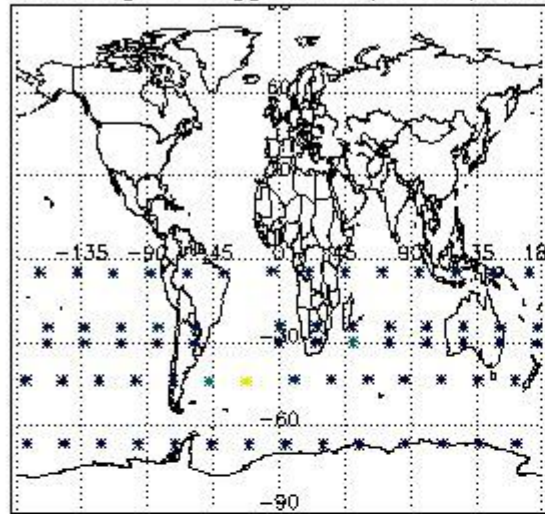
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

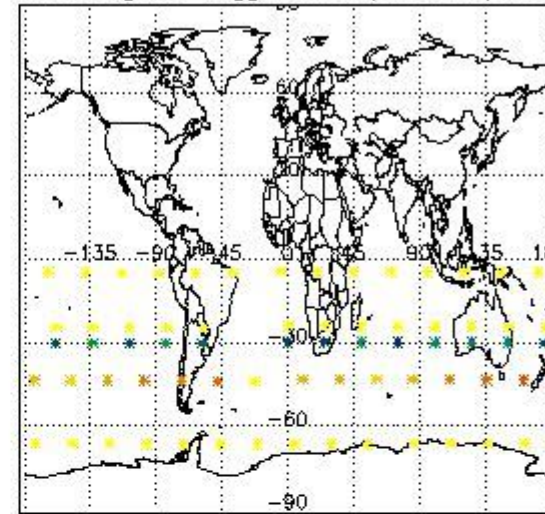


3.2 Plot quality information per product (world map)

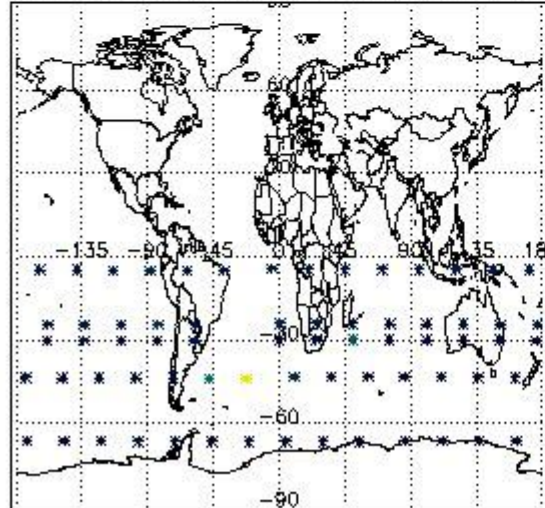
Percentage of flagged data per O3 profile



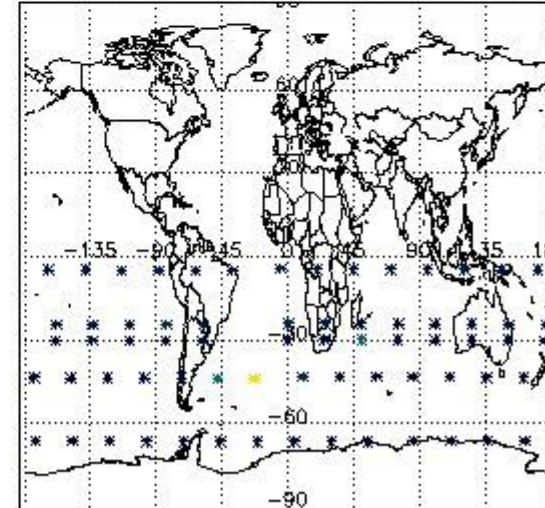
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

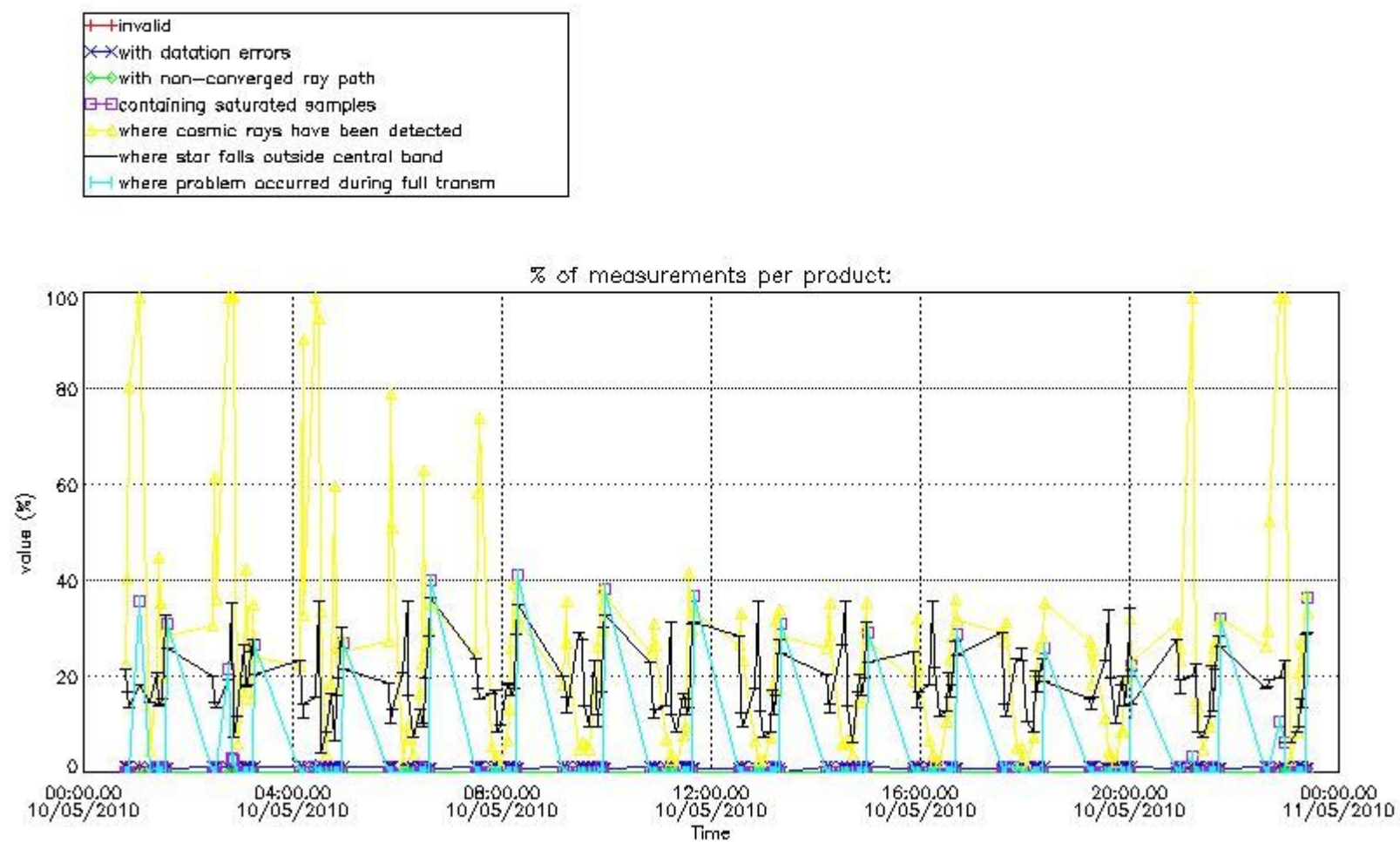


4. Level 1 quality information per product

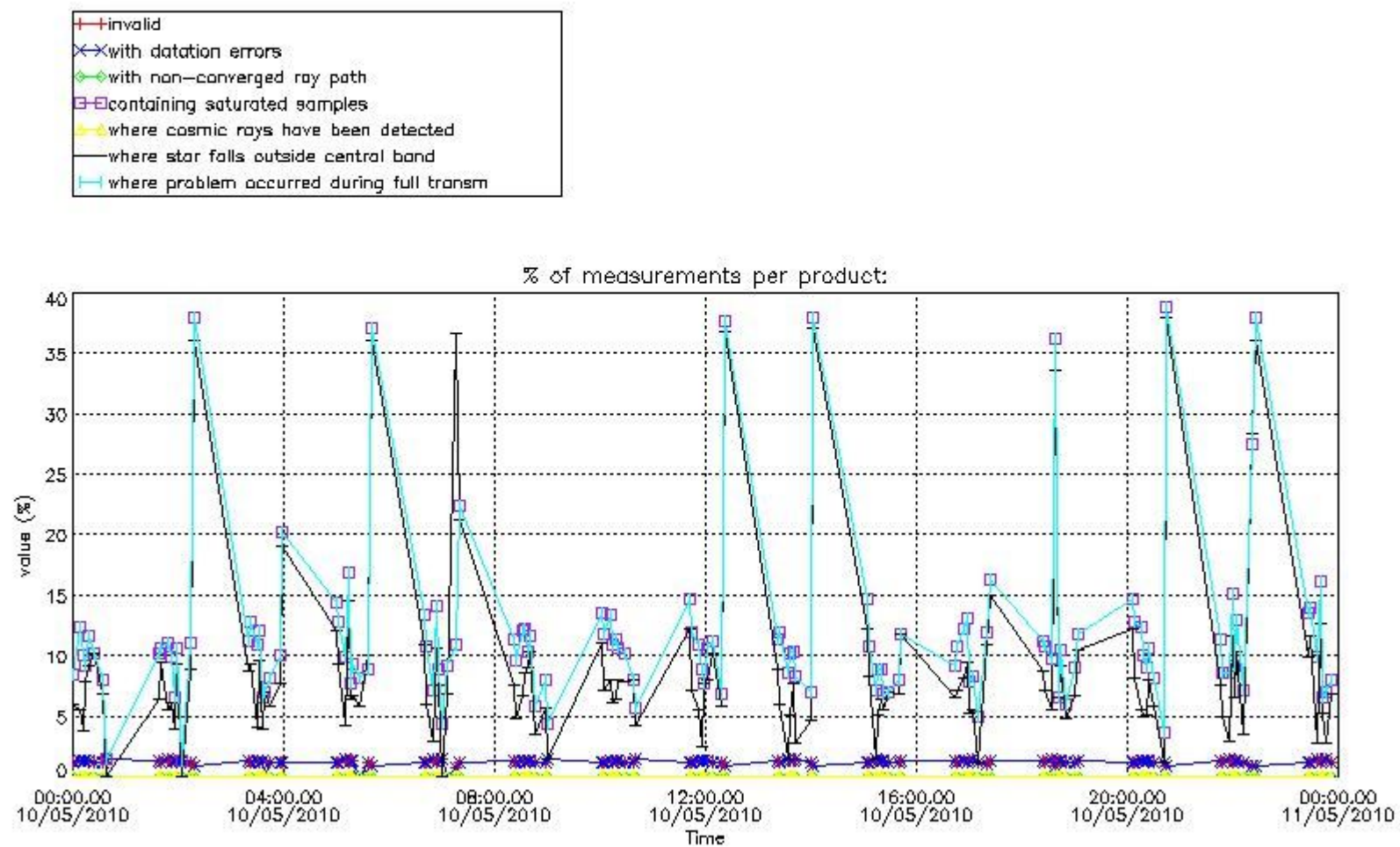
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

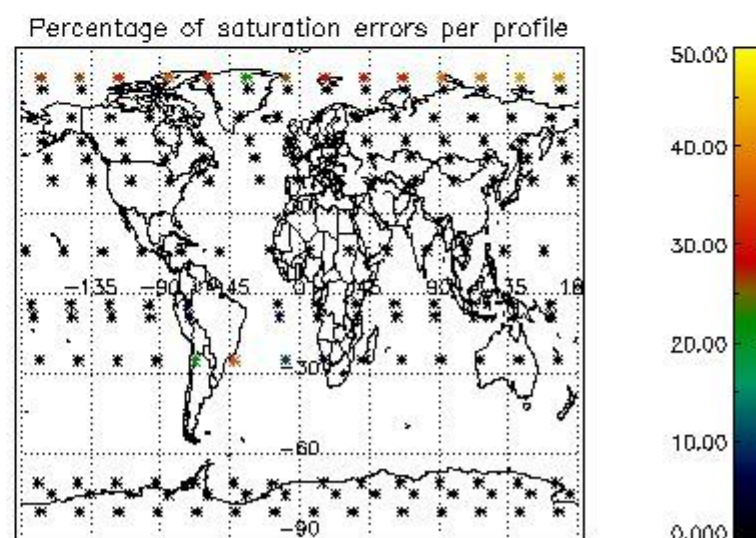
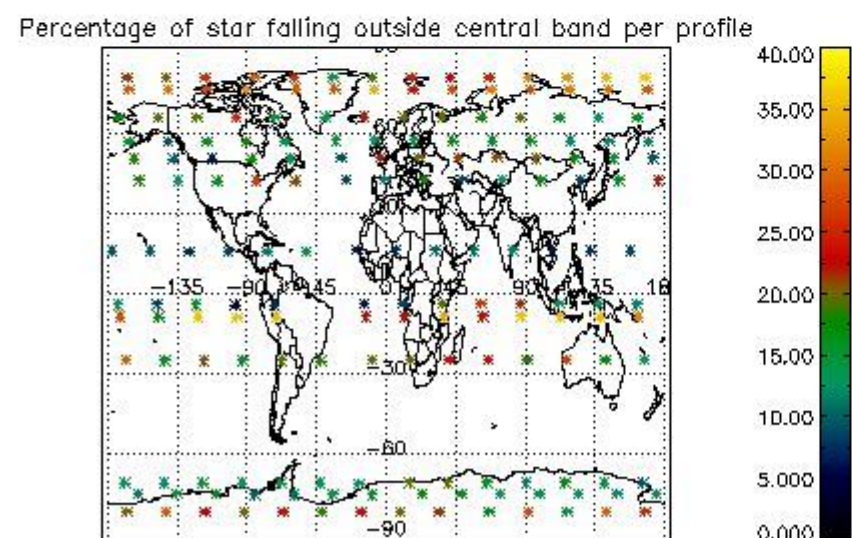
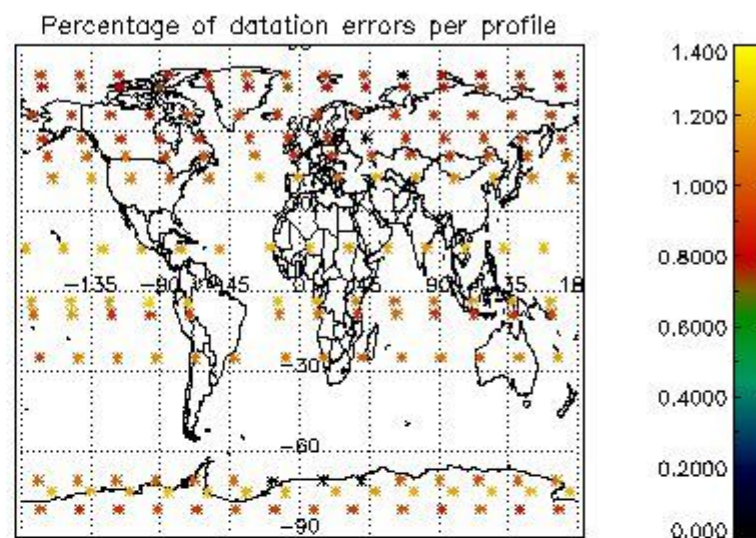
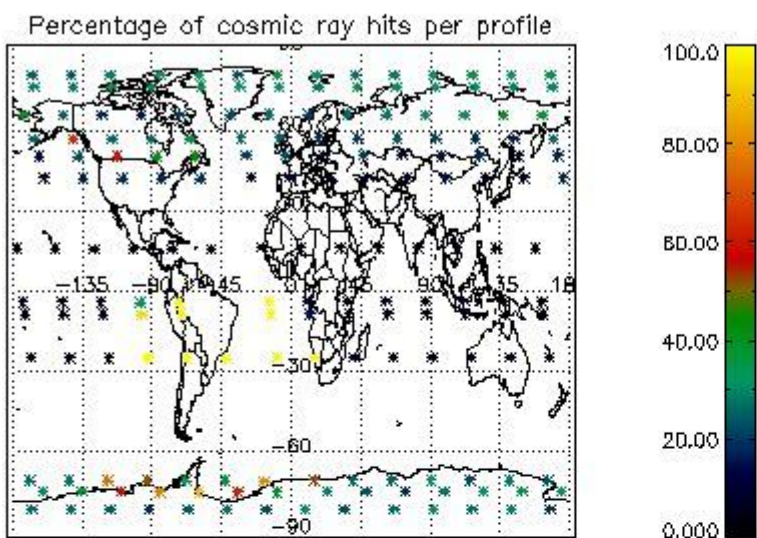


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

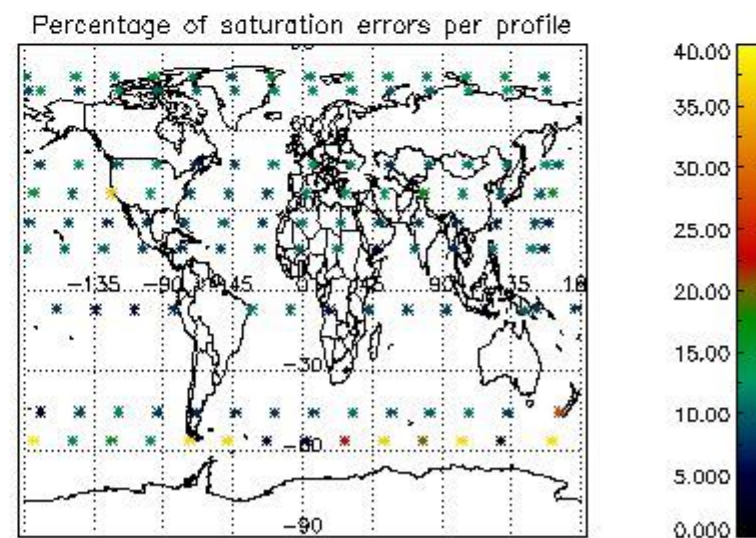
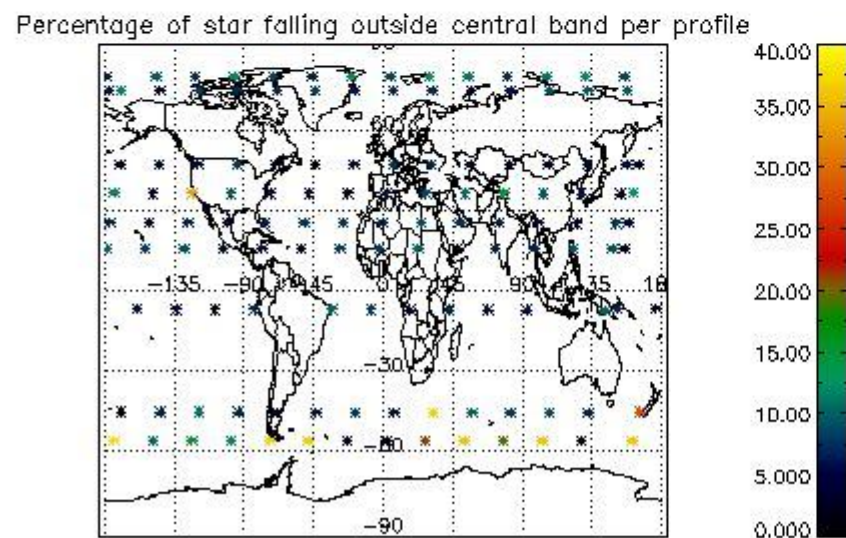
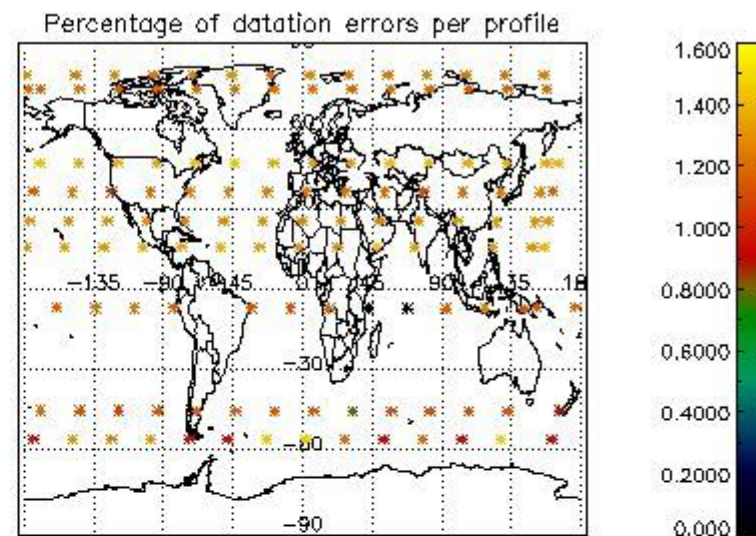
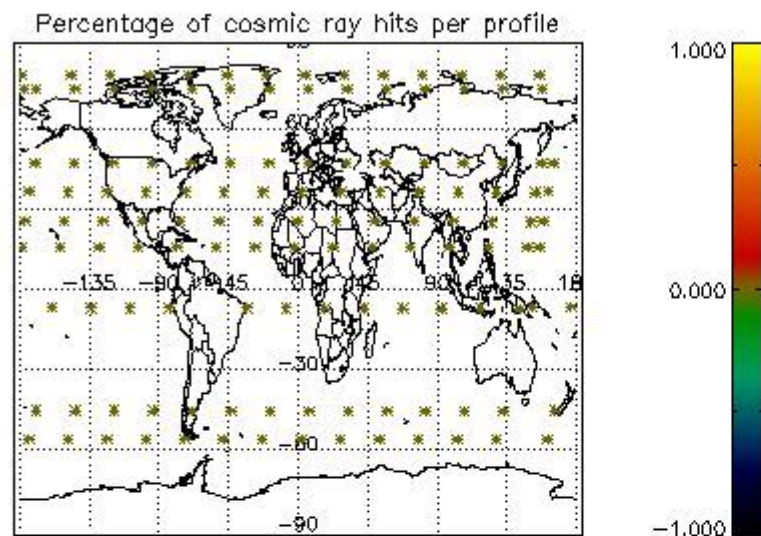


4.2 Plot quality information per product coming from level 1b processing (world map)

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

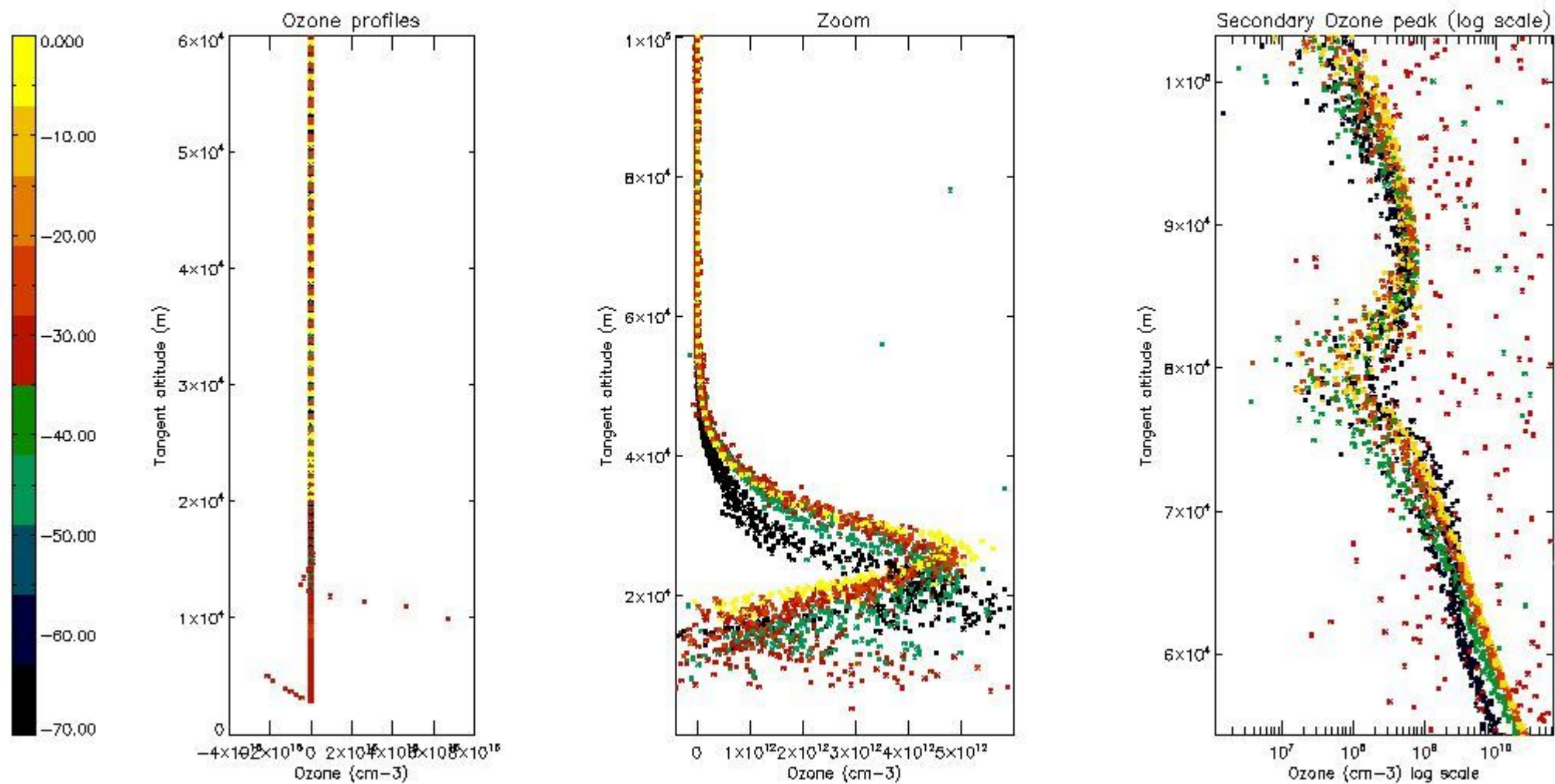
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	22
STD < 20	12

STD < 10	9
STD < 5	5

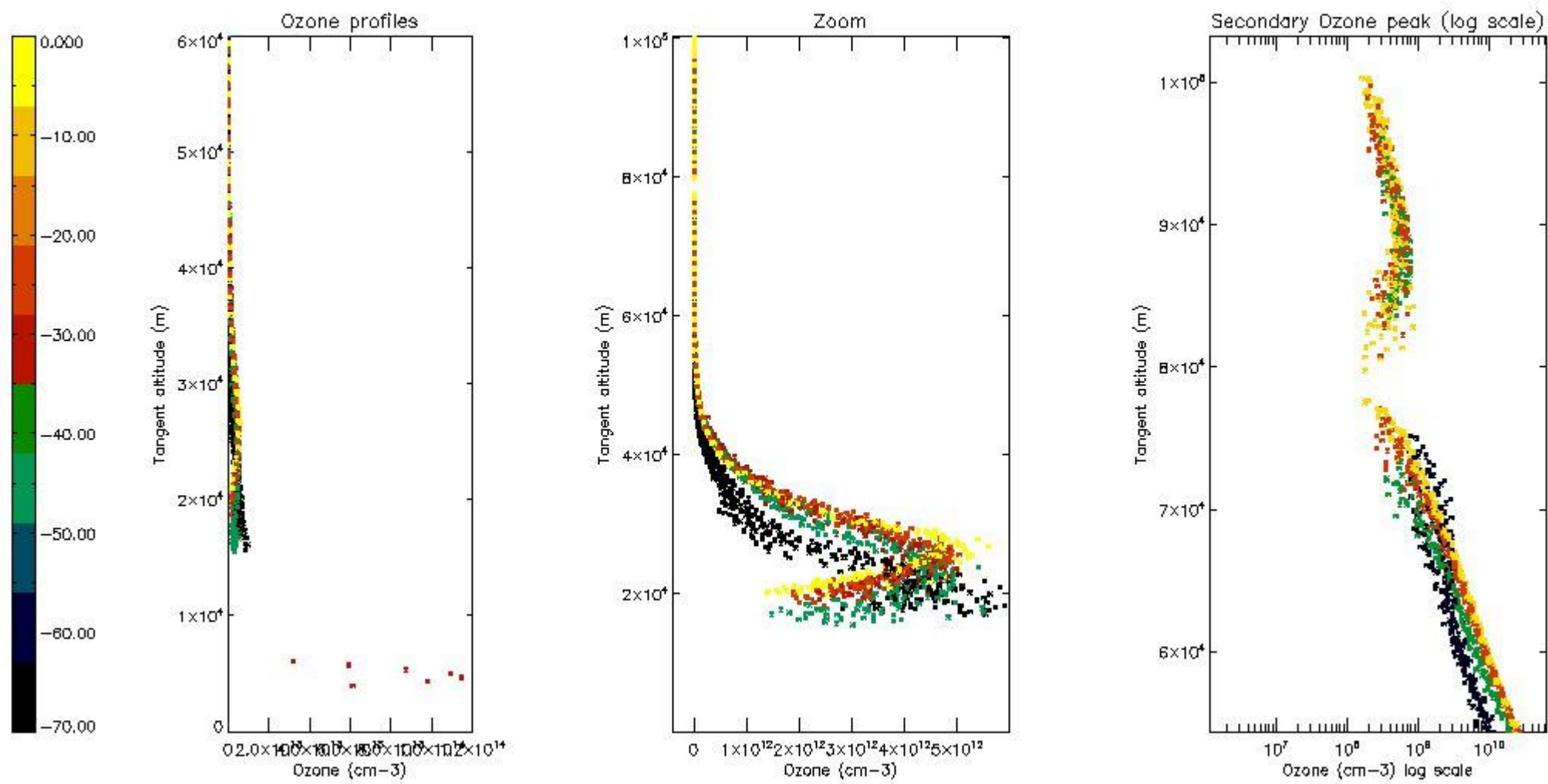
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



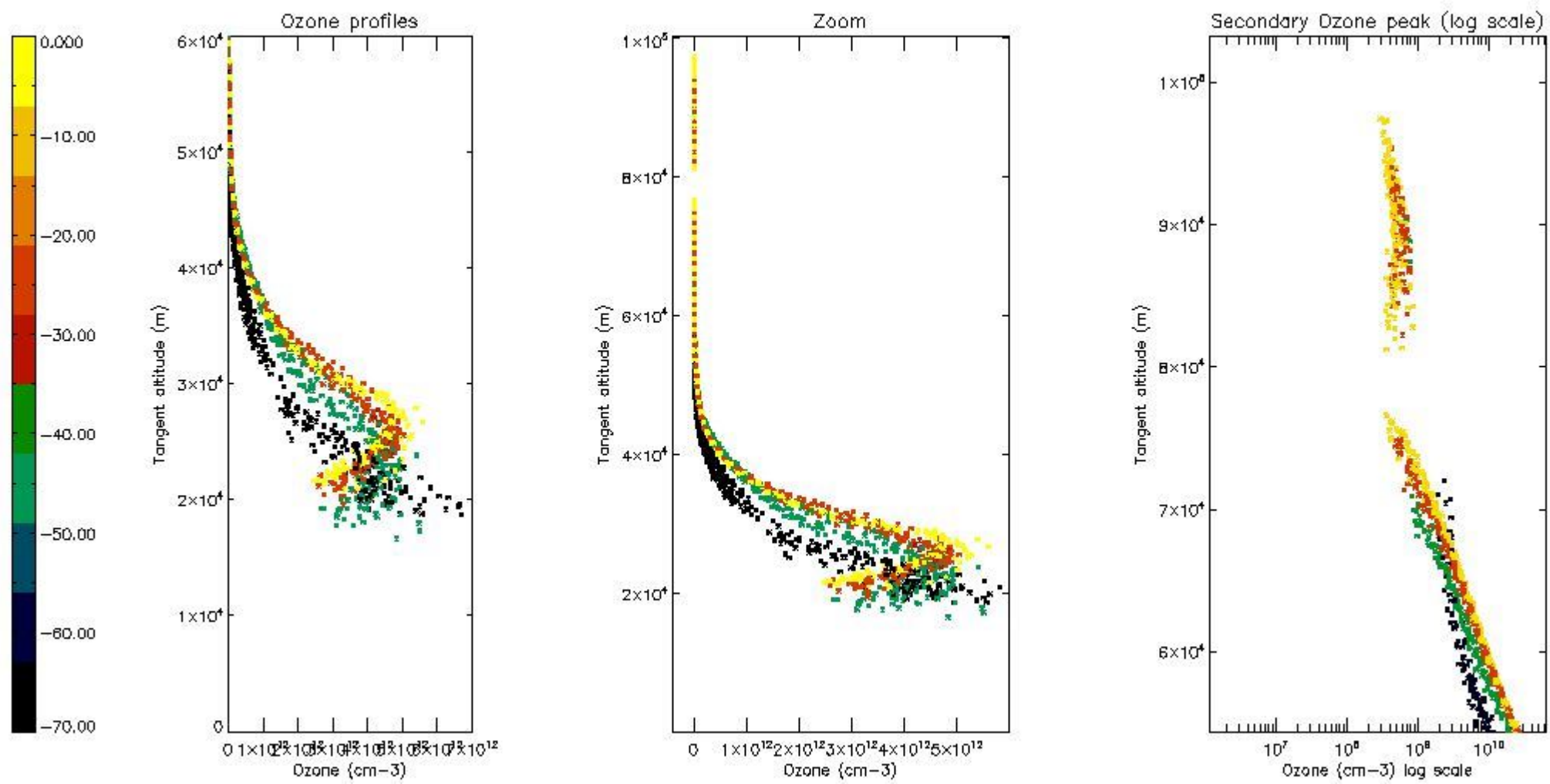
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



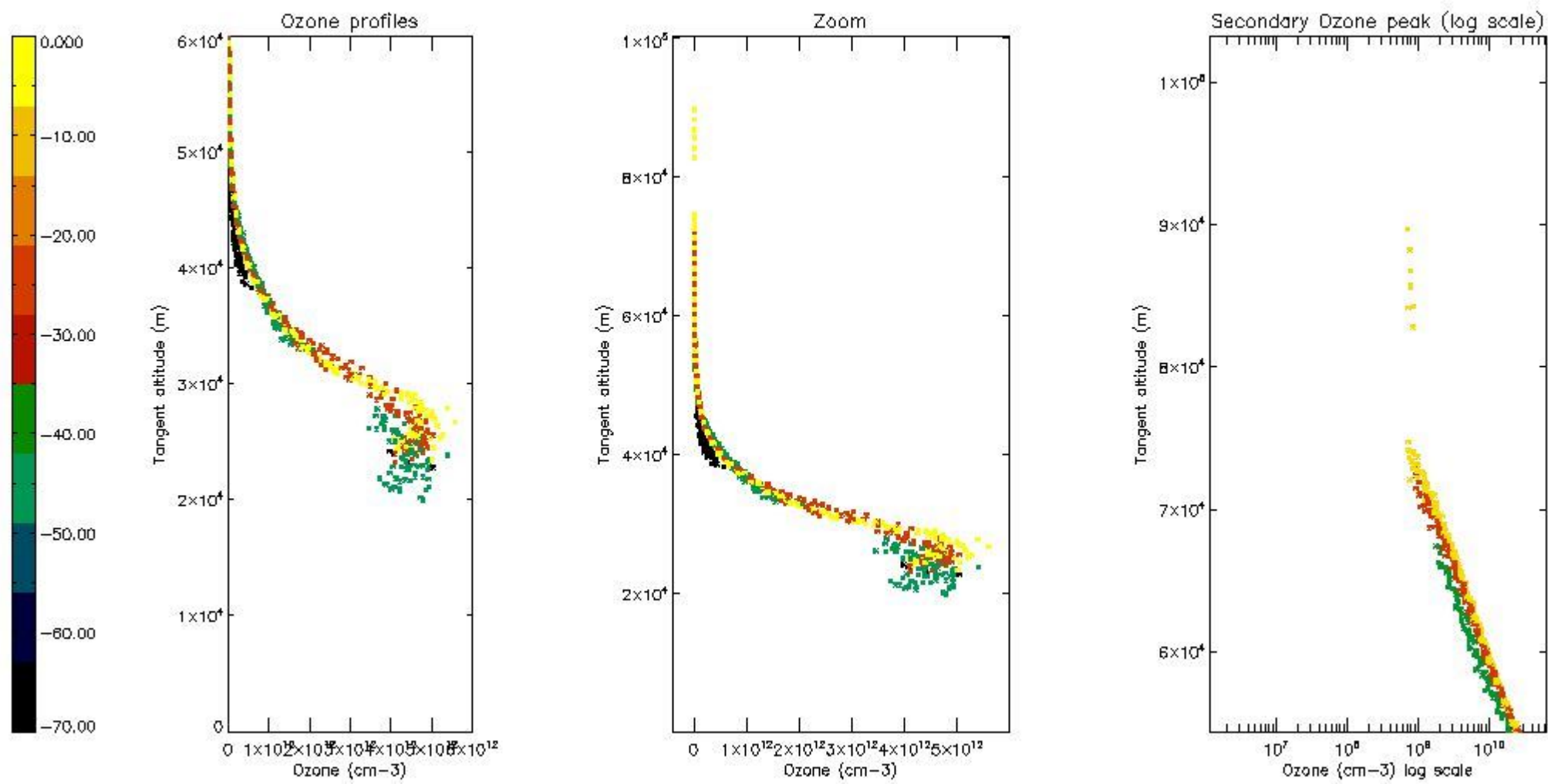
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



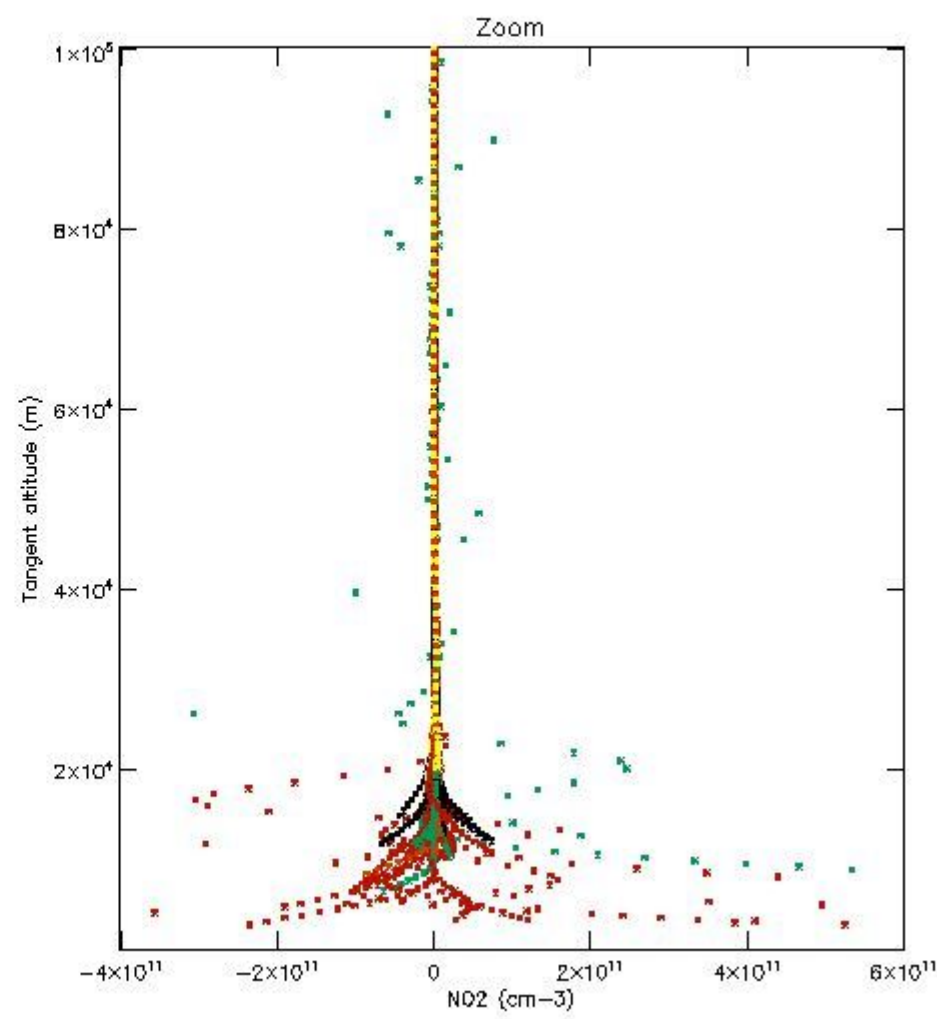
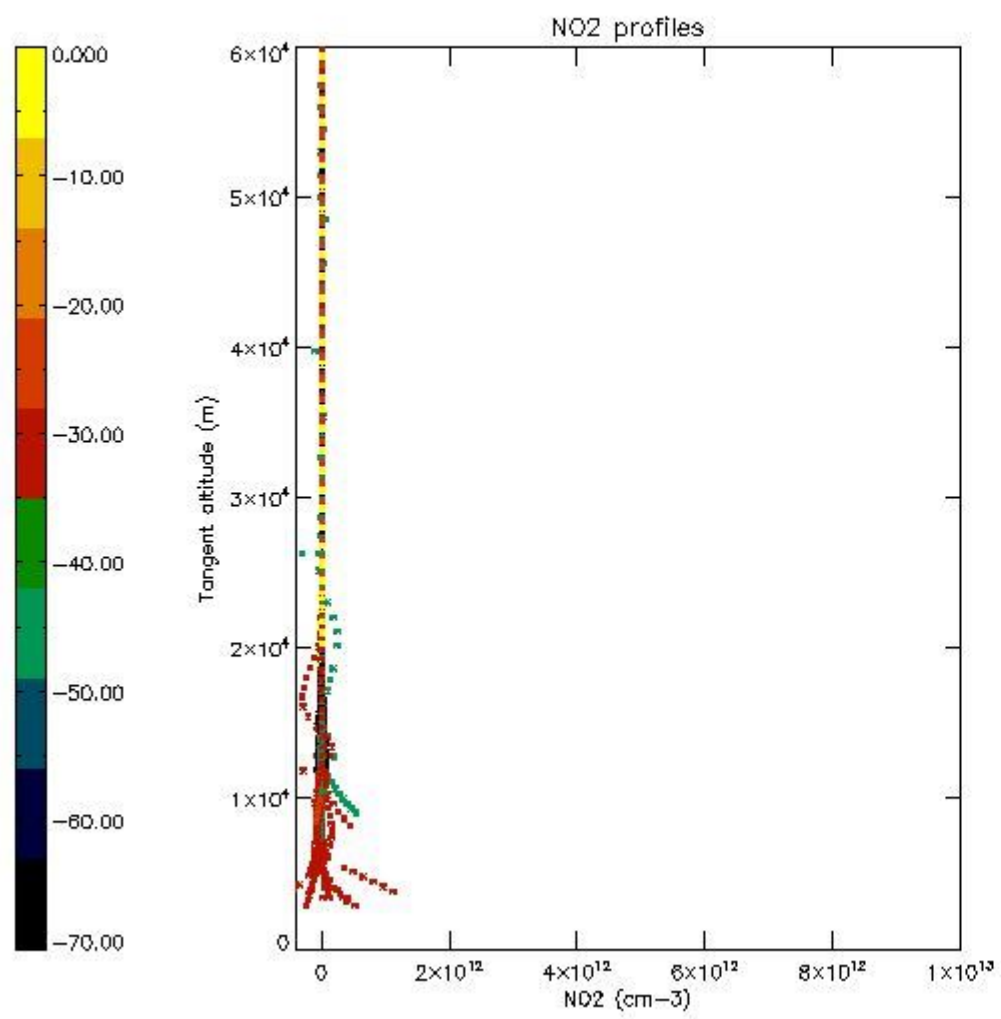
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



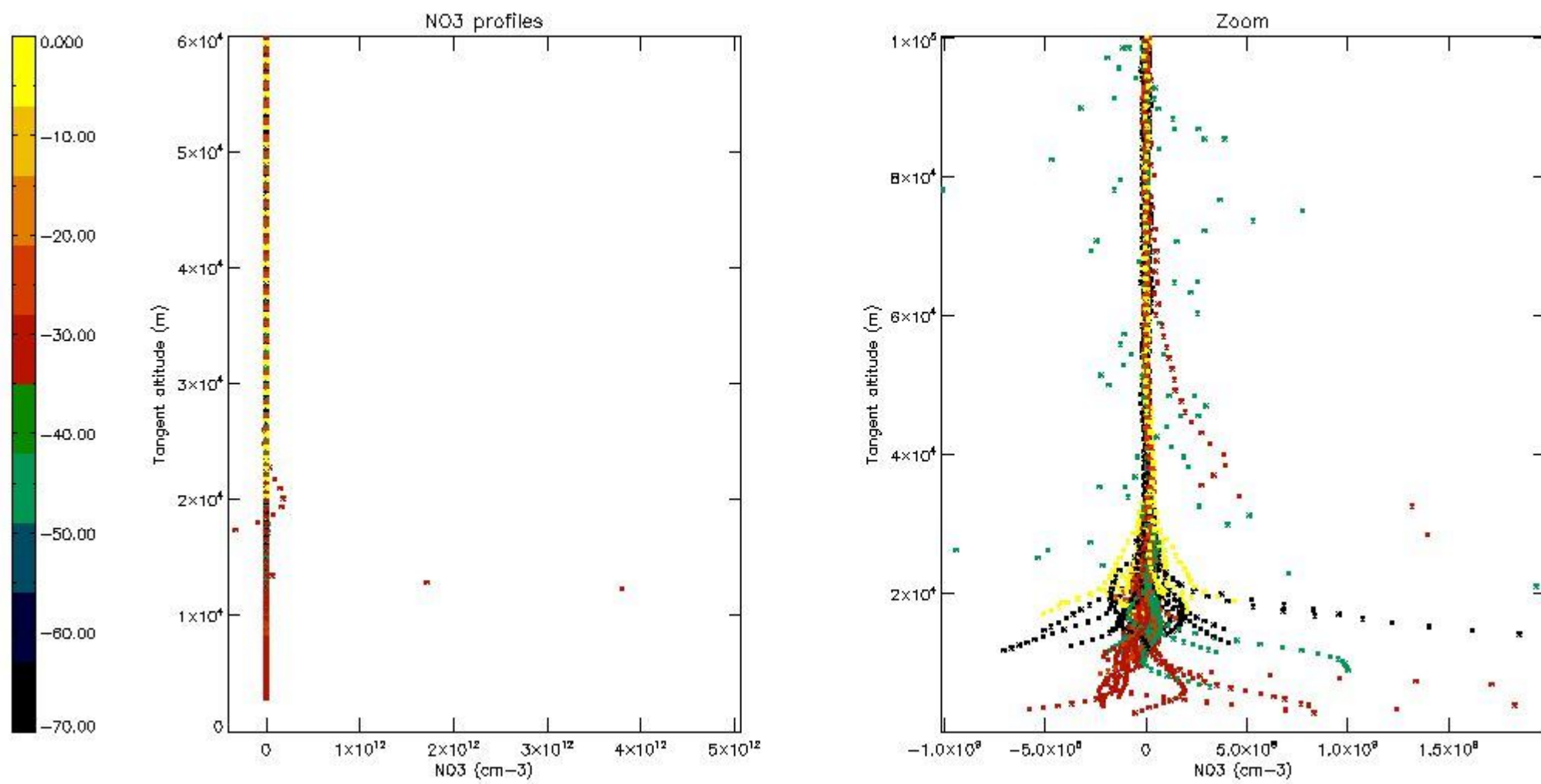
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



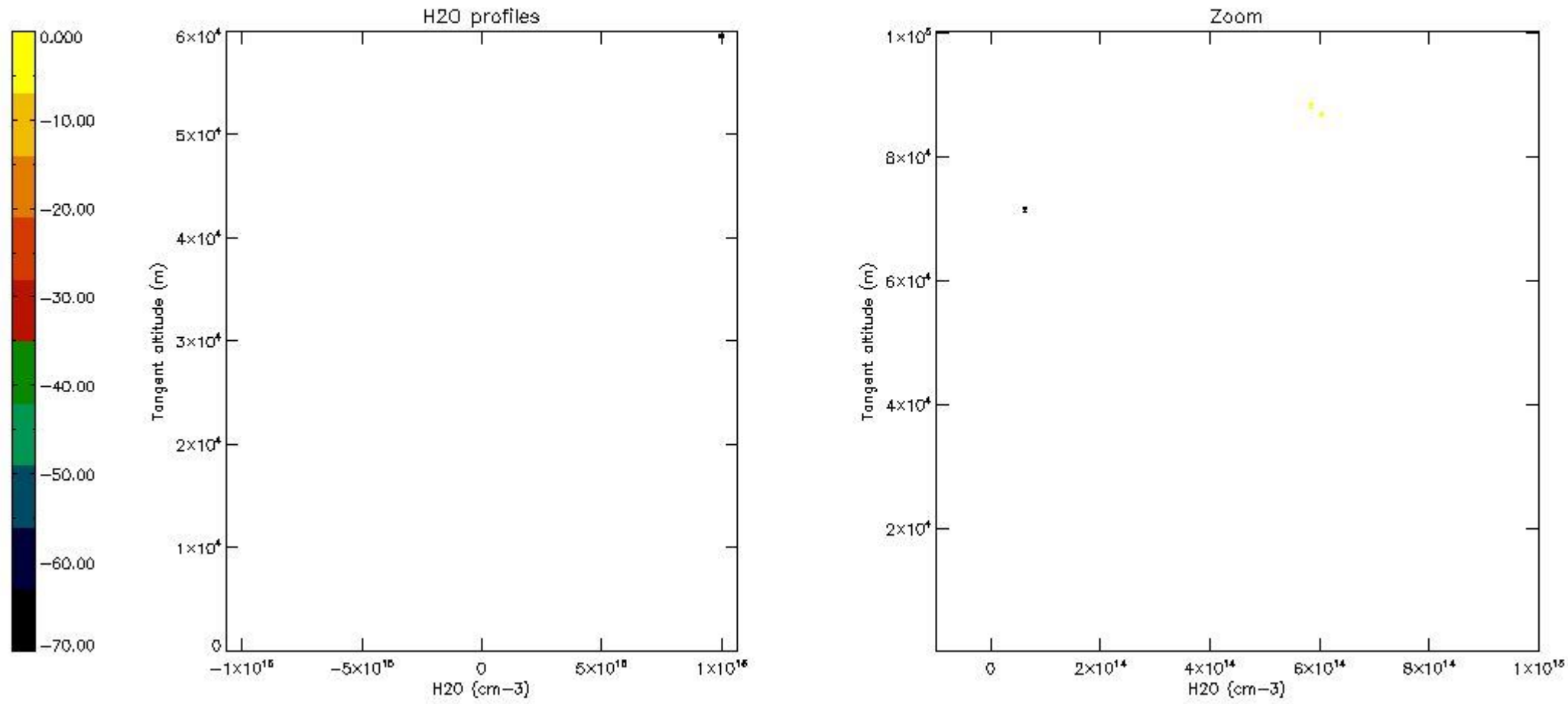
5.7 Plot NO3 profiles for all STD (dark without errors)

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	10-MAY-2010 00:00:03
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	10-MAY-2010 00:00:03
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	10-MAY-2010 00:00:03

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

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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](#)

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

[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](#)

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

[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	29APR2013 10:37:10
Data source version	GOMOS/6.01
Start time of products	10-05-2010 (10MAY2010 00:00:00)
Stop time of products	11-05-2010 (11MAY2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	311
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

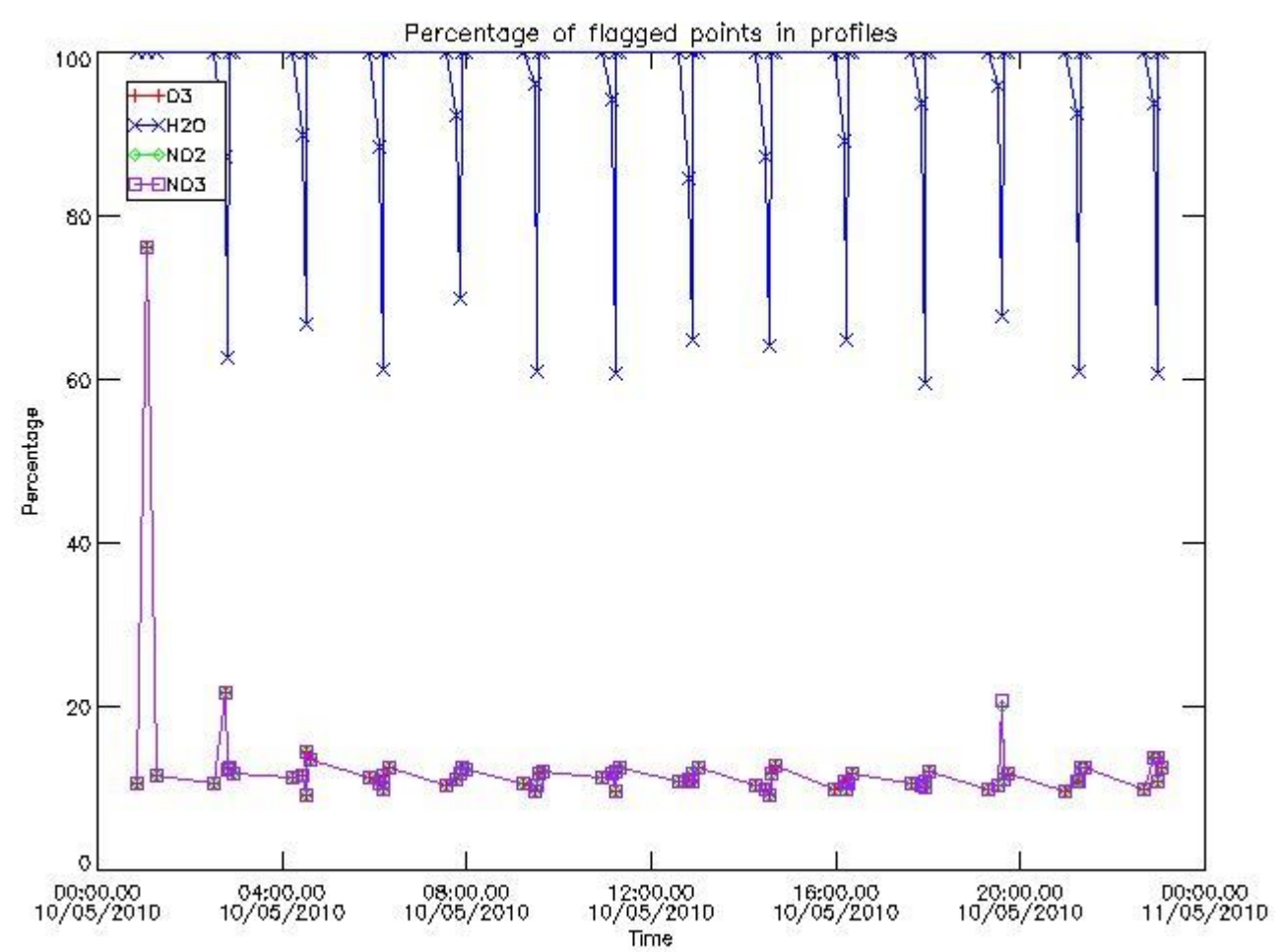
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20100510_000003_000000422089_00188_42827_8669.N1	10-MAY-2010 00:00:03	Bright	41.500	104	27Bet Lib	2.6140	13100.	83	42827	No
2	GOM_NL__2PRFIN20100510_000819_000000372089_00188_42827_8670.N1	10-MAY-2010 00:08:19	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	42827	No
3	GOM_NL__2PRFIN20100510_001122_000000402089_00188_42827_8671.N1	10-MAY-2010 00:11:22	Bright	40.000	83		2.3780	11000.	80	42827	No
4	GOM_NL__2PRFIN20100510_001428_000000392089_00188_42827_8672.N1	10-MAY-2010 00:14:28	Bright	38.500	180	27Gam Boo	3.0400	8000.0	77	42827	No
5	GOM_NL__2PRFIN20100510_001708_000000392089_00188_42827_8673.N1	10-MAY-2010 00:17:08	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	42827	No
6	GOM_NL__2PRFIN20100510_002335_000000452089_00188_42827_8674.N1	10-MAY-2010 00:23:35	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	42827	No
7	GOM_NL__2PRFIN20100510_003424_000000442089_00188_42827_8675.N1	10-MAY-2010 00:34:24	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	42827	No
8	GOM_NL__2PRFIN20100510_003723_000000342089_00188_42827_8676.N1	10-MAY-2010 00:37:23	Bright	34.000	74	11Bet Cas	2.2680	6600.0	68	42827	No
9	GOM_NL__2PRFIN20100510_004718_000000542089_00188_42827_8677.N1	10-MAY-2010 00:47:18	Twilight	53.500	93	53Bet Peg	2.5200	3100.0	107	42827	No
10	GOM_NL__2PRFIN20100510_005018_000000422089_00188_42827_8678.N1	10-MAY-2010 00:50:18	Twilight	42.000	140	88Gam Peg	2.8340	26000.	84	42827	No
11	GOM_NL__2PRFIN20100510_005138_000000482089_00188_42827_8679.N1	10-MAY-2010 00:51:38	Dark	48.000	90	54Alp Peg	2.4870	11000.	96	42827	No
12	GOM_NL__2PRFIN20100510_010453_000000472089_00188_42827_8680.N1	10-MAY-2010 01:04:53	Dark	46.500	18	24Alp PsA	1.1660	9700.0	93	42827	No
13	GOM_NL__2PRFIN20100510_011620_000000452089_00189_42828_8433.N1	10-MAY-2010 01:16:20	Dark	44.500	45	Alp Pav	1.9400	26000.	89	42828	No
14	GOM_NL__2PRFIN20100510_012345_000000482089_00189_42828_8434.N1	10-MAY-2010 01:23:45	Straylight	48.000	141	Bet Ara	2.8400	4600.0	96	42828	No
15	GOM_NL__2PRFIN20100510_012605_000000512089_00189_42828_8435.N1	10-MAY-2010 01:26:05	Straylight	50.500	40	The Sco	1.8590	7100.0	101	42828	No
16	GOM_NL__2PRFIN20100510_012756_000000572089_00189_42828_8436.N1	10-MAY-2010 01:27:56	Straylight	56.500	25	35Lam Sco	1.6200	28000.	113	42828	No
17	GOM_NL__2PRFIN20100510_013034_000000532089_00189_42828_8437.N1	10-MAY-2010 01:30:34	Straylight	53.000	75	26Eps Sco	2.2910	4250.0	106	42828	No
18	GOM_NL__2PRFIN20100510_013354_000000692089_00189_42828_8438.N1	10-MAY-2010 01:33:54	Twilight	68.500	16	21Alp Sco	1.0200	3000.0	137	42828	No
19	GOM_NL__2PRFIN20100510_013549_000000582089_00189_42828_8439.N1	10-MAY-2010 01:35:49	Bright	58.000	80	7Del Sco	2.3160	30000.	116	42828	No
20	GOM_NL__2PRFIN20100510_013839_000000402089_00189_42828_8440.N1	10-MAY-2010 01:38:39	Bright	39.500	122	9Alp2Lib	2.7470	9700.0	79	42828	No
21	GOM_NL__2PRFIN20100510_014039_000000432089_00189_42828_8441.N1	10-MAY-2010 01:40:39	Bright	42.500	104	27Bet Lib	2.6140	13100.	85	42828	No
22	GOM_NL__2PRFIN20100510_014855_000000362089_00189_42828_8442.N1	10-MAY-2010 01:48:55	Bright	36.000	111	8Eta Boo	2.6800	6000.0	72	42828	No
23	GOM_NL__2PRFIN20100510_015158_000000412089_00189_42828_8443.N1	10-MAY-2010 01:51:58	Bright	40.500	83		2.3780	11000.	81	42828	No
24	GOM_NL__2PRFIN20100510_015504_000000382089_00189_42828_8444.N1	10-MAY-2010 01:55:04	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	42828	No
25	GOM_NL__2PRFIN20100510_015744_000000382089_00189_42828_8445.N1	10-MAY-2010 01:57:44	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	42828	No
26	GOM_NL__2PRFIN20100510_020410_000000402089_00189_42828_8446.N1	10-MAY-2010 02:04:10	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	42828	No
27	GOM_NL__2PRFIN20100510_021459_000000452089_00189_42828_8447.N1	10-MAY-2010 02:14:59	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	42828	No
28	GOM_NL__2PRFIN20100510_021759_000000542089_00189_42828_8448.N1	10-MAY-2010 02:17:59	Bright	54.000	74	11Bet Cas	2.2680	6600.0	108	42828	No
29	GOM_NL__2PRFIN20100510_022755_000000532089_00189_42828_8449.N1	10-MAY-2010 02:27:55	Twilight	52.500	93	53Bet Peg	2.5200	3100.0	105	42828	No
30	GOM_NL__2PRFIN20100510_023054_000000422089_00189_42828_8450.N1	10-MAY-2010 02:30:54	Twilight	41.500	140	88Gam Peg	2.8340	26000.	83	42828	No
31	GOM_NL__2PRFIN20100510_023215_000000492089_00189_42828_8451.N1	10-MAY-2010 02:32:15	Dark	48.500	90	54Alp Peg	2.4870	11000.	97	42828	No
32	GOM_NL__2PRFIN20100510_024530_000000472089_00189_42828_8452.N1	10-MAY-2010 02:45:30	Dark	47.000	18	24Alp PsA	1.1660	9700.0	94	42828	No
33	GOM_NL__2PRFIN20100510_025004_000000542089_00189_42828_8453.N1	10-MAY-2010 02:50:04	Dark	54.000	63	Bet Gru	2.1500	2800.0	108	42828	No
34	GOM_NL__2PRFIN20100510_025121_000000412089_00189_42828_8454.N1	10-MAY-2010 02:51:21	Dark	40.500	31	Alp Gru	1.7340	15200.	81	42828	No
35	GOM_NL__2PRFIN20100510_025656_000000432089_00190_42829_8441.N1	10-MAY-2010 02:56:56	Dark	43.000	45	Alp Pav	1.9400	26000.	86	42829	No
36	GOM_NL__2PRFIN20100510_030422_000000512089_00190_42829_8442.N1	10-MAY-2010 03:04:22	Straylight	51.000	141	Bet Ara	2.8400	4600.0	102	42829	No
37	GOM_NL__2PRFIN20100510_030641_000000542089_00190_42829_8443.N1	10-MAY-2010 03:06:41	Straylight	53.500	40	The Sco	1.8590	7100.0	107	42829	No
38	GOM_NL__2PRFIN20100510_030833_000000582089_00190_42829_8444.N1	10-MAY-2010 03:08:33	Straylight	57.500	25	35Lam Sco	1.6200	28000.	115	42829	No
39	GOM_NL__2PRFIN20100510_031111_000000602089_00190_42829_8445.N1	10-MAY-2010 03:11:11	Straylight	59.500	75	26Eps Sco	2.2910	4250.0	119	42829	No
40	GOM_NL__2PRFIN20100510_031431_000000632089_00190_42829_8446.N1	10-MAY-2010 03:14:31	Twilight	63.000	16	21Alp Sco	1.0200	3000.0	126	42829	No
41	GOM_NL__2PRFIN20100510_031625_000000552089_00190_42829_8447.N1	10-MAY-2010 03:16:25	Bright	54.500	80	7Del Sco	2.3160	30000.	109	42829	No
42	GOM_NL__2PRFIN20100510_031915_000000402089_00190_42829_8448.N1	10-MAY-2010 03:19:15	Bright	40.000	122	9Alp2Lib	2.7470	9700.0	80	42829	No

279	GOM_NL__2PRFIN20100510_213516_000000552089_00201_42840_8778.N1	10-MAY-2010 21:35:16	Straylight	54.500	25	35Lam Sco	1.6200	28000.	109	42840	No
280	GOM_NL__2PRFIN20100510_213752_000000562089_00201_42840_8779.N1	10-MAY-2010 21:37:52	Straylight	55.500	75	26Eps Sco	2.2910	4250.0	111	42840	No
281	GOM_NL__2PRFIN20100510_214110_000000642089_00201_42840_8780.N1	10-MAY-2010 21:41:10	Twilight	63.500	16	21Alp Sco	1.0200	3000.0	127	42840	No
282	GOM_NL__2PRFIN20100510_214303_000000582089_00201_42840_8781.N1	10-MAY-2010 21:43:03	Bright	57.500	80	7Del Sco	2.3160	30000.	115	42840	No
283	GOM_NL__2PRFIN20100510_214551_000000402089_00201_42840_8782.N1	10-MAY-2010 21:45:51	Bright	39.500	122	9Alp2Lib	2.7470	9700.0	79	42840	No
284	GOM_NL__2PRFIN20100510_214750_000000412089_00201_42840_8783.N1	10-MAY-2010 21:47:50	Bright	41.000	104	27Bet Lib	2.6140	13100.	82	42840	No
285	GOM_NL__2PRFIN20100510_215606_000000352089_00201_42840_8784.N1	10-MAY-2010 21:56:06	Bright	35.000	111	8Eta Boo	2.6800	6000.0	70	42840	No
286	GOM_NL__2PRFIN20100510_215906_000000432089_00201_42840_8785.N1	10-MAY-2010 21:59:06	Bright	43.000	83		2.3780	11000.	86	42840	No
287	GOM_NL__2PRFIN20100510_220212_000000392089_00201_42840_8786.N1	10-MAY-2010 22:02:12	Bright	38.500	180	27Gam Boo	3.0400	8000.0	77	42840	No
288	GOM_NL__2PRFIN20100510_220454_000000392089_00201_42840_8787.N1	10-MAY-2010 22:04:54	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	42840	No
289	GOM_NL__2PRFIN20100510_221115_000000432089_00201_42840_8788.N1	10-MAY-2010 22:11:15	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	42840	No
290	GOM_NL__2PRFIN20100510_222205_000000572089_00201_42840_8789.N1	10-MAY-2010 22:22:05	Bright	56.500	89	5Alp Cep	2.4510	8000.0	113	42840	No
291	GOM_NL__2PRFIN20100510_222510_000000542089_00201_42840_8790.N1	10-MAY-2010 22:25:10	Bright	54.000	74	11Bet Cas	2.2680	6600.0	108	42840	No
292	GOM_NL__2PRFIN20100510_223508_000000522089_00201_42840_8791.N1	10-MAY-2010 22:35:08	Twilight	51.500	93	53Bet Peg	2.5200	3100.0	103	42840	No
293	GOM_NL__2PRFIN20100510_223808_000000432089_00201_42840_8792.N1	10-MAY-2010 22:38:08	Twilight	42.500	140	88Gam Peg	2.8340	26000.	85	42840	No
294	GOM_NL__2PRFIN20100510_223931_000000522089_00201_42840_8793.N1	10-MAY-2010 22:39:31	Dark	51.500	90	54Alp Peg	2.4870	11000.	103	42840	No
295	GOM_NL__2PRFIN20100510_225249_000000482089_00201_42840_8794.N1	10-MAY-2010 22:52:49	Dark	48.000	18	24Alp PsA	1.1660	9700.0	96	42840	No
296	GOM_NL__2PRFIN20100510_225720_000000482089_00201_42840_8795.N1	10-MAY-2010 22:57:20	Dark	47.500	63	Bet Gru	2.1500	2800.0	95	42840	No
297	GOM_NL__2PRFIN20100510_225840_000000412089_00201_42840_8796.N1	10-MAY-2010 22:58:40	Dark	40.500	31	Alp Gru	1.7340	15200.	81	42840	No
298	GOM_NL__2PRFIN20100510_230416_000000412089_00202_42841_8783.N1	10-MAY-2010 23:04:16	Dark	41.000	45	Alp Pav	1.9400	26000.	82	42841	No
299	GOM_NL__2PRFIN20100510_231140_000000422089_00202_42841_8784.N1	10-MAY-2010 23:11:40	Straylight	41.500	141	Bet Ara	2.8400	4600.0	83	42841	No
300	GOM_NL__2PRFIN20100510_231402_000000492089_00202_42841_8785.N1	10-MAY-2010 23:14:02	Straylight	48.500	40	The Sco	1.8590	7100.0	97	42841	No
301	GOM_NL__2PRFIN20100510_231553_000000562089_00202_42841_8786.N1	10-MAY-2010 23:15:53	Straylight	56.000	25	35Lam Sco	1.6200	28000.	112	42841	No
302	GOM_NL__2PRFIN20100510_231829_000000522089_00202_42841_8787.N1	10-MAY-2010 23:18:29	Straylight	51.500	75	26Eps Sco	2.2910	4250.0	103	42841	No
303	GOM_NL__2PRFIN20100510_232146_000000652089_00202_42841_8788.N1	10-MAY-2010 23:21:46	Twilight	64.500	16	21Alp Sco	1.0200	3000.0	129	42841	No
304	GOM_NL__2PRFIN20100510_232339_000000612089_00202_42841_8789.N1	10-MAY-2010 23:23:39	Bright	60.500	80	7Del Sco	2.3160	30000.	121	42841	No
305	GOM_NL__2PRFIN20100510_232627_000000412089_00202_42841_8790.N1	10-MAY-2010 23:26:27	Bright	40.500	122	9Alp2Lib	2.7470	9700.0	81	42841	No
306	GOM_NL__2PRFIN20100510_232826_000000432089_00202_42841_8791.N1	10-MAY-2010 23:28:26	Bright	43.000	104	27Bet Lib	2.6140	13100.	86	42841	No
307	GOM_NL__2PRFIN20100510_233642_000000362089_00202_42841_8792.N1	10-MAY-2010 23:36:42	Bright	35.500	111	8Eta Boo	2.6800	6000.0	71	42841	No
308	GOM_NL__2PRFIN20100510_233941_000000442089_00202_42841_8793.N1	10-MAY-2010 23:39:41	Bright	43.500	83		2.3780	11000.	87	42841	No
309	GOM_NL__2PRFIN20100510_234247_000000382089_00202_42841_8794.N1	10-MAY-2010 23:42:47	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	42841	No
310	GOM_NL__2PRFIN20100510_234530_000000362089_00202_42841_8795.N1	10-MAY-2010 23:45:30	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	42841	No
311	GOM_NL__2PRFIN20100510_235150_000000442089_00202_42841_8796.N1	10-MAY-2010 23:51:50	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	42841	No

3. Quality information per product

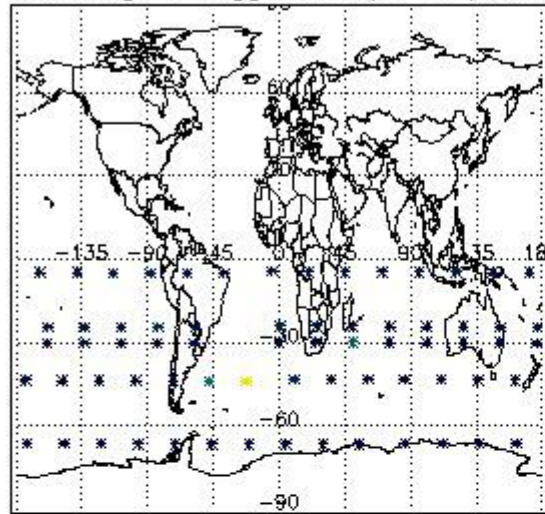
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

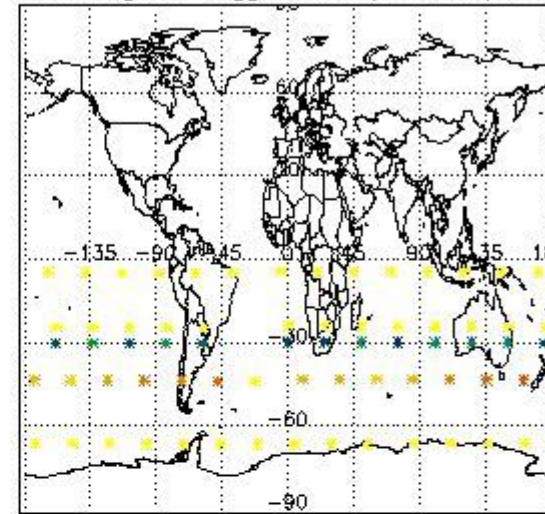


3.2 Plot quality information per product (world map)

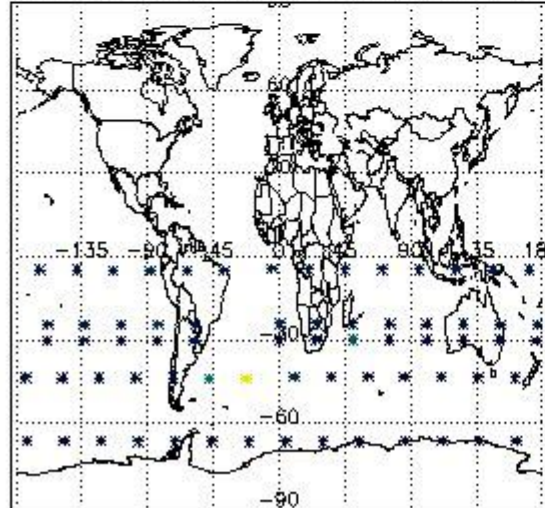
Percentage of flagged data per O3 profile



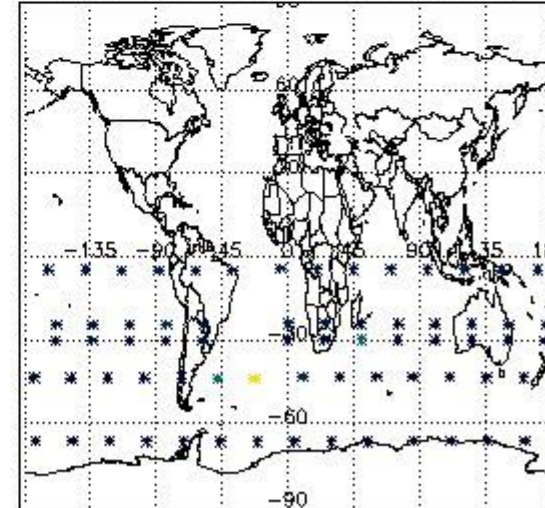
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

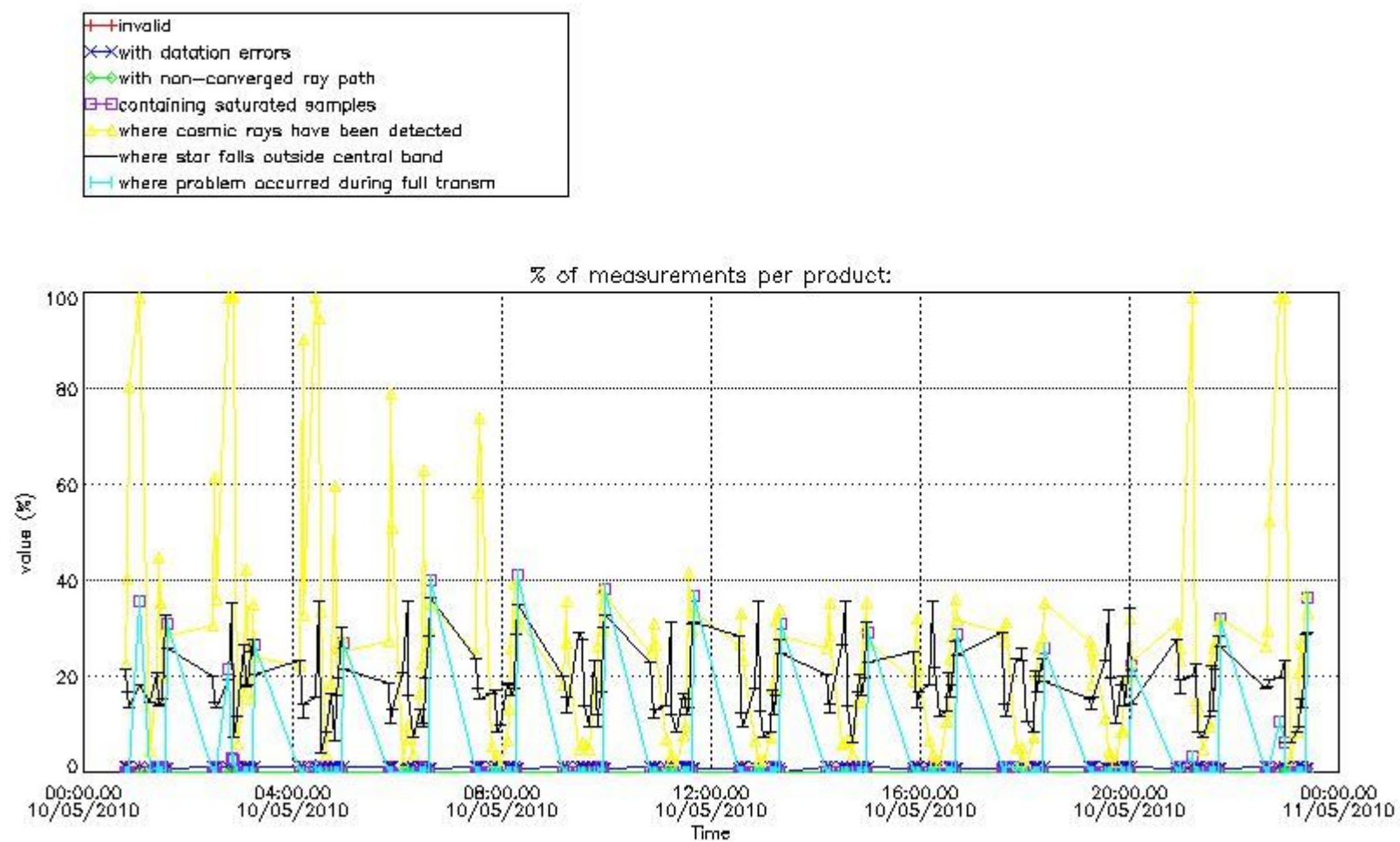


4. Level 1 quality information per product

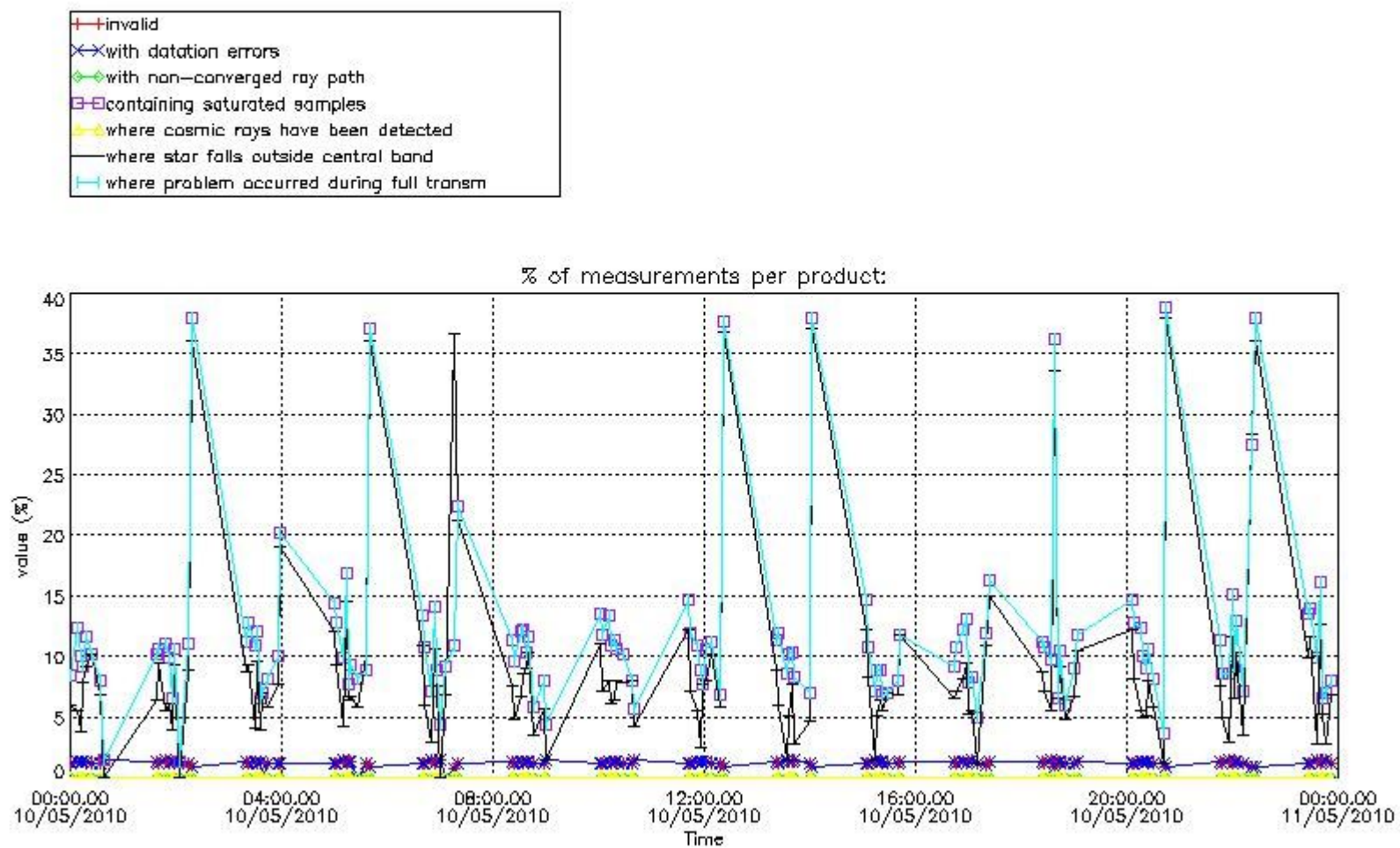
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

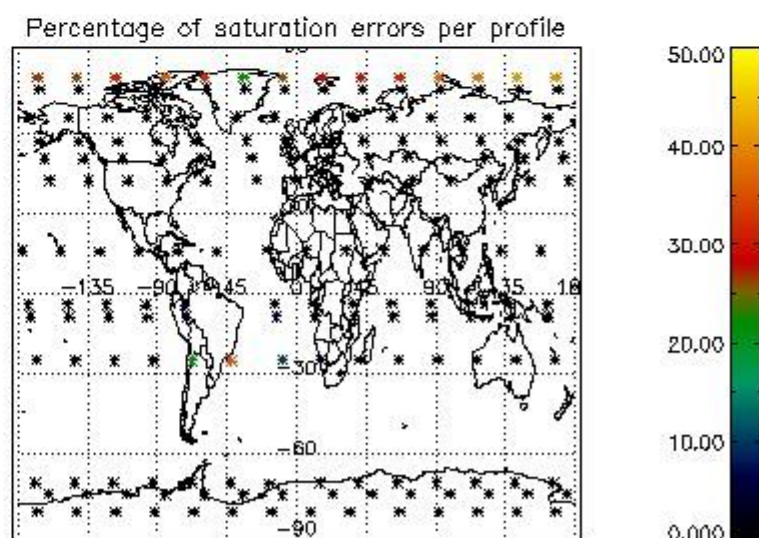
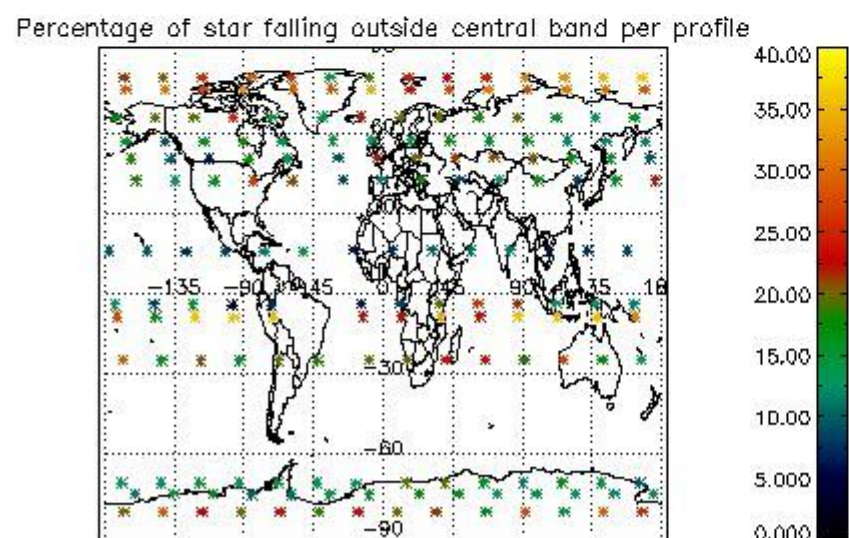
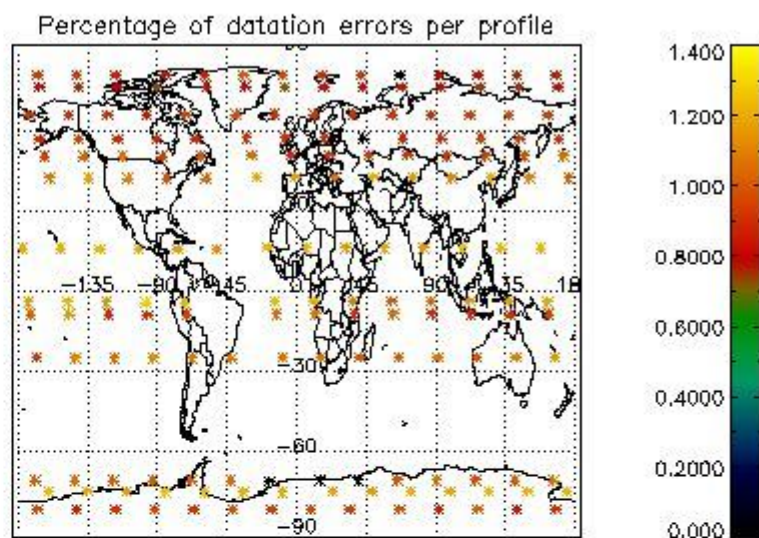
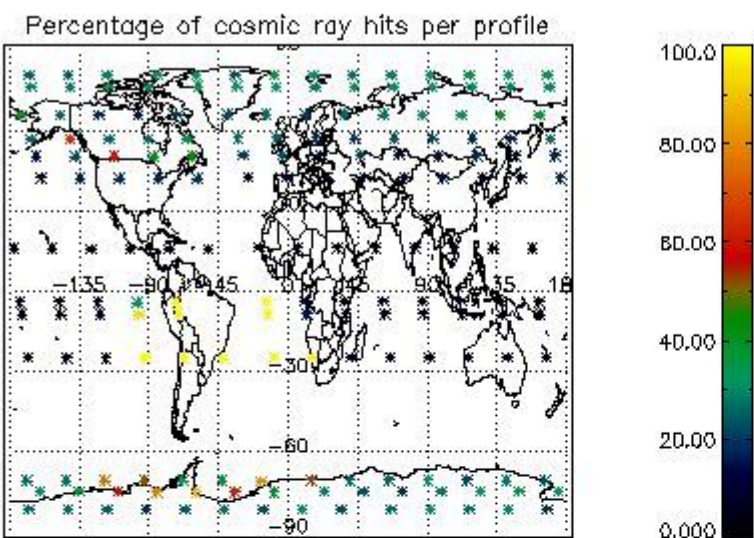


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

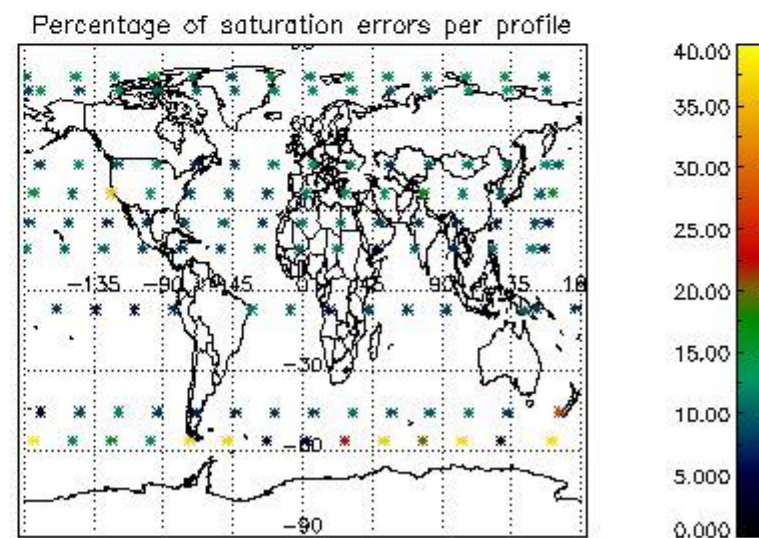
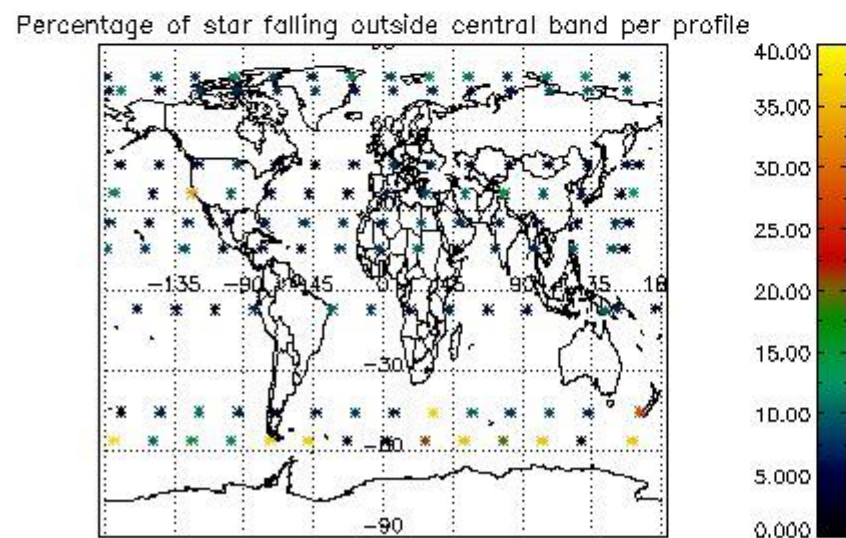
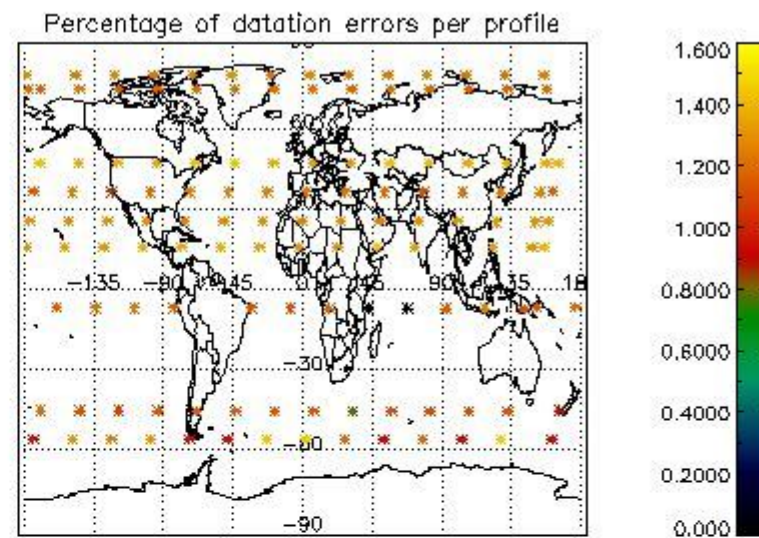
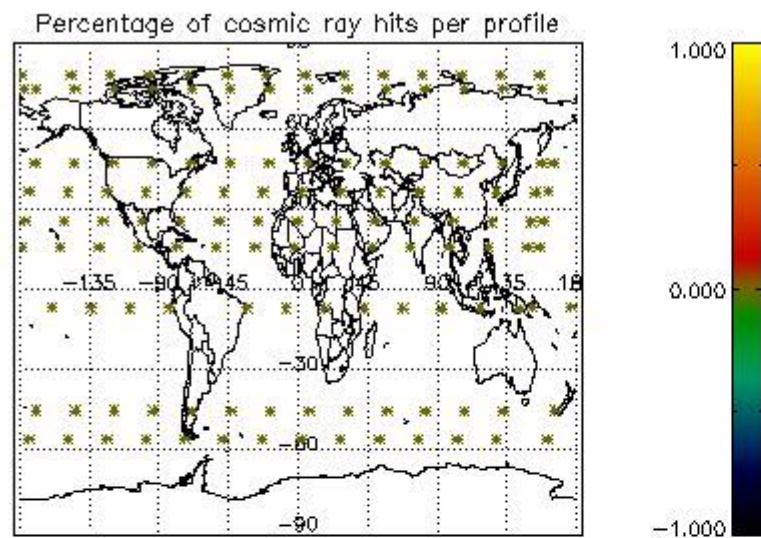


4.2 Plot quality information per product coming from level 1b processing (world map)

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

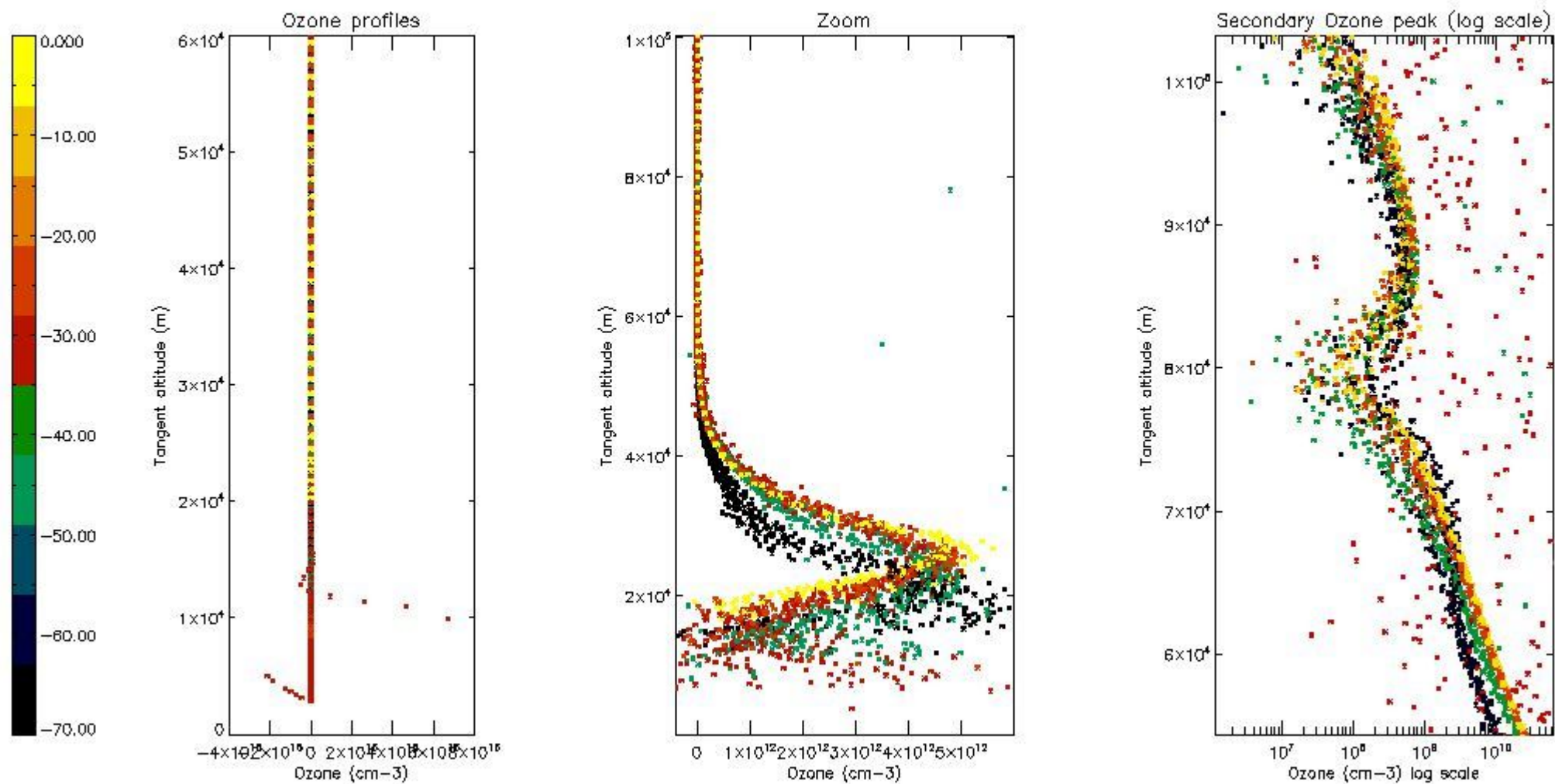
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	22
STD < 20	12

STD < 10	9
STD < 5	5

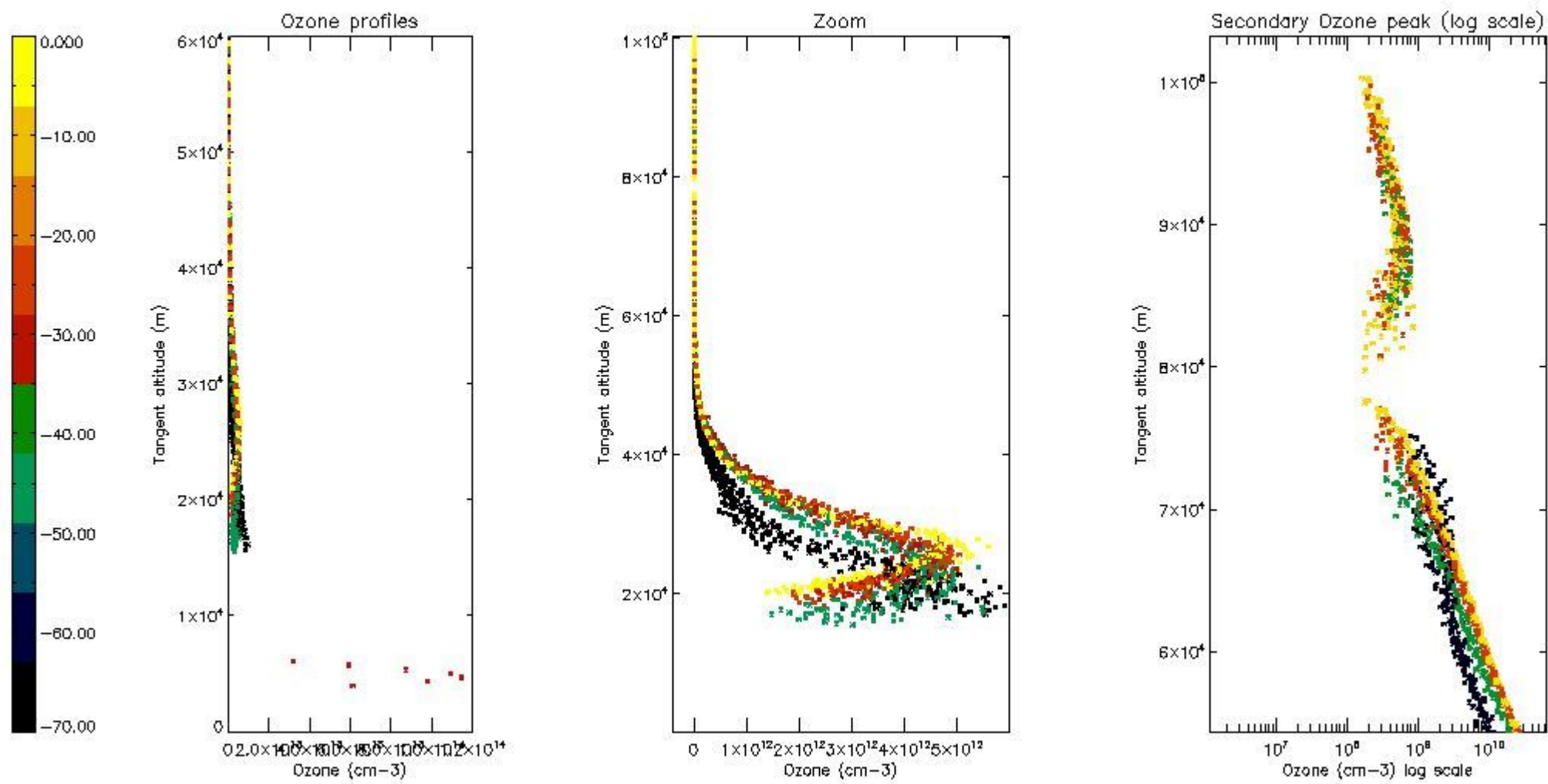
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



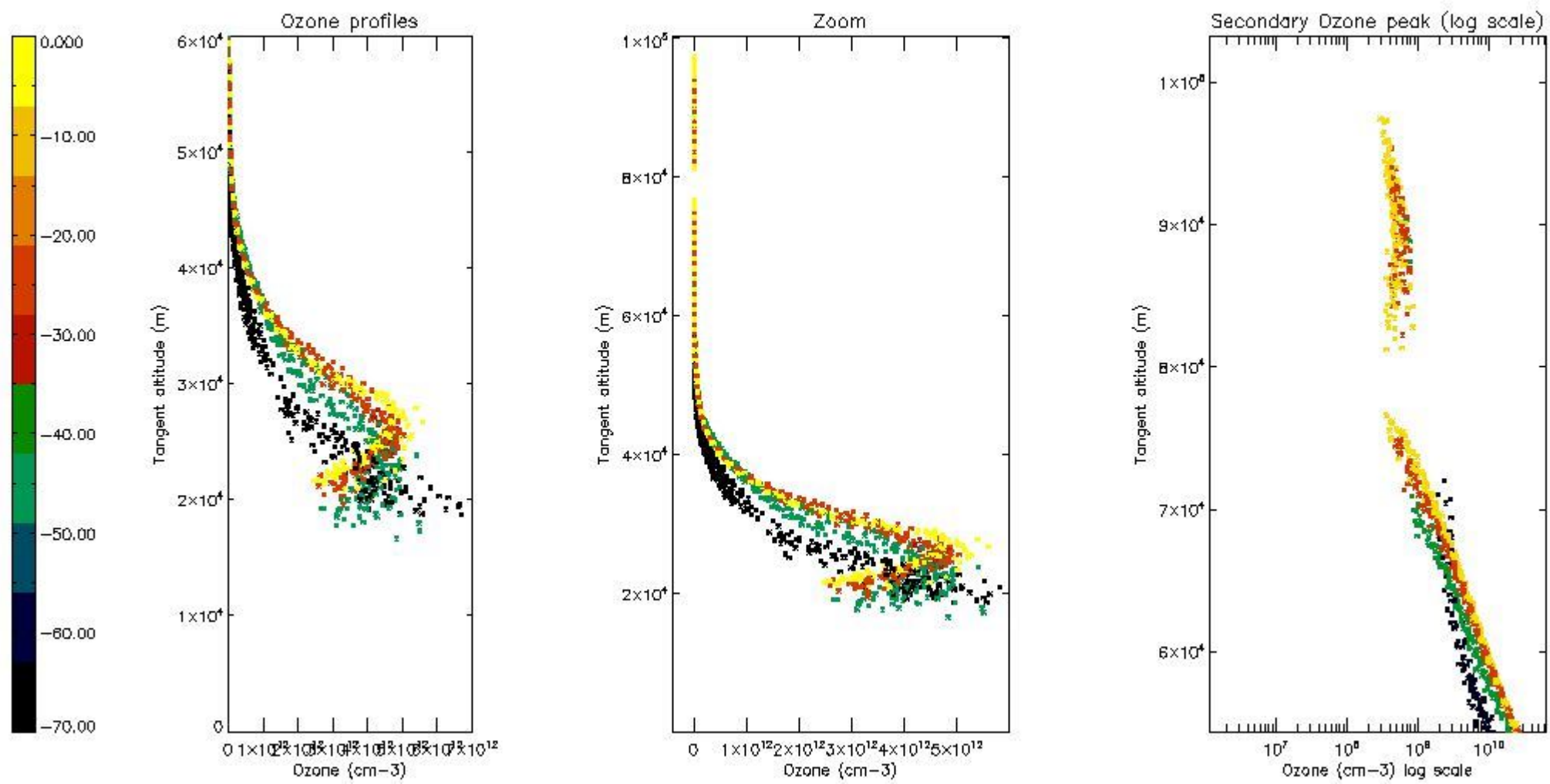
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



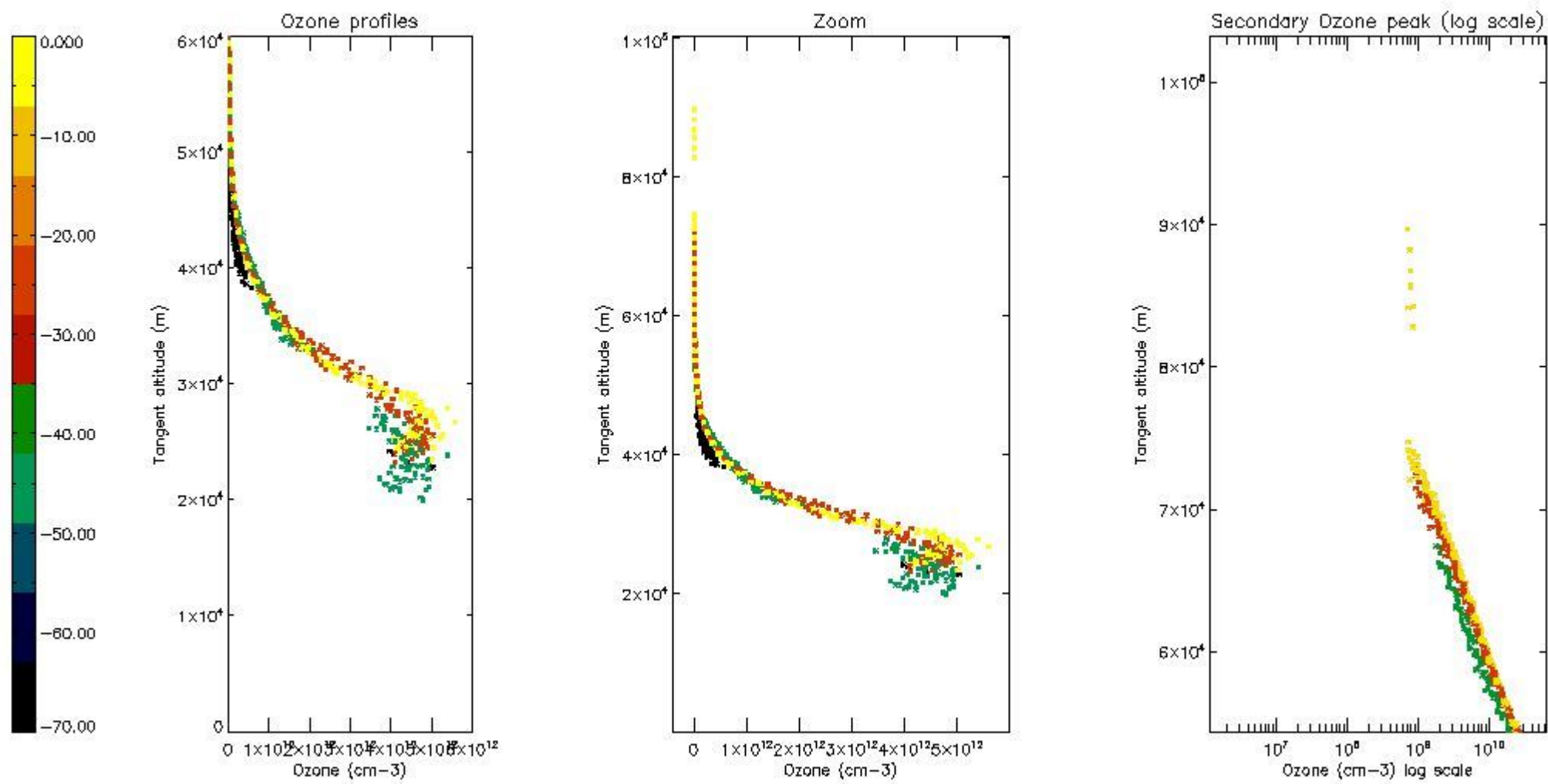
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



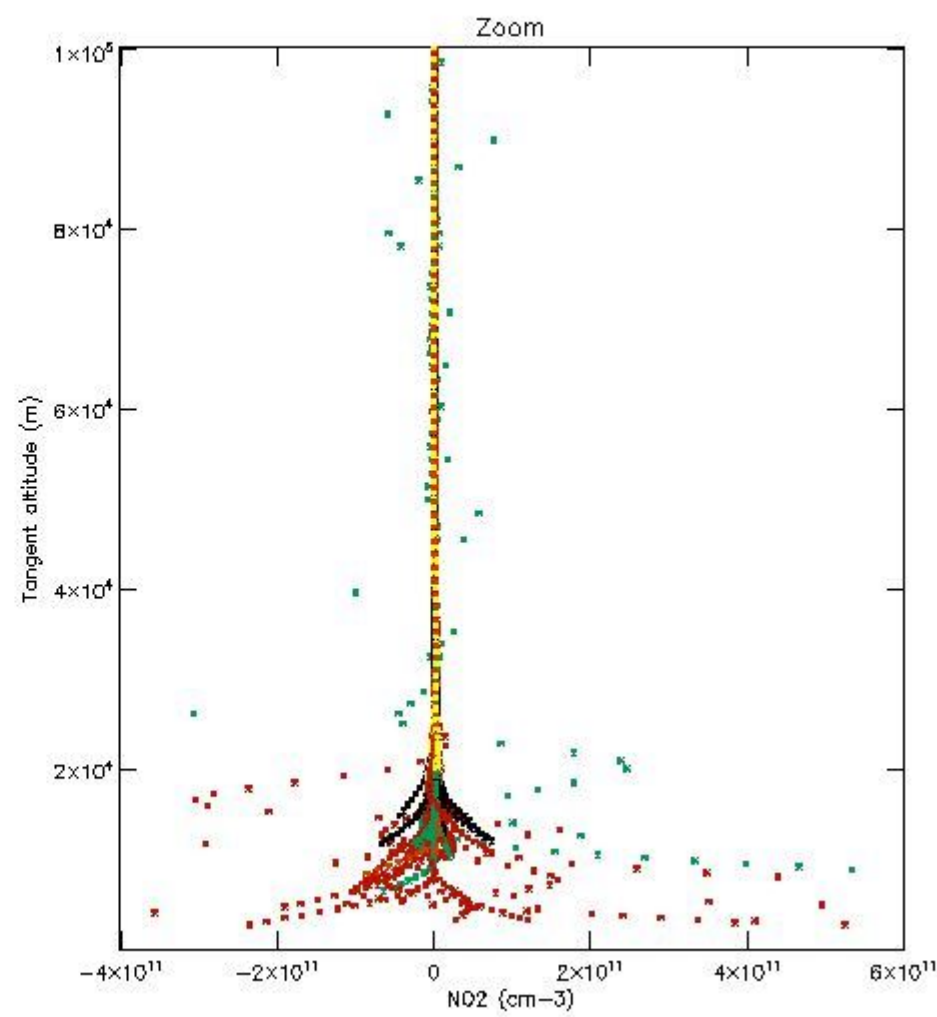
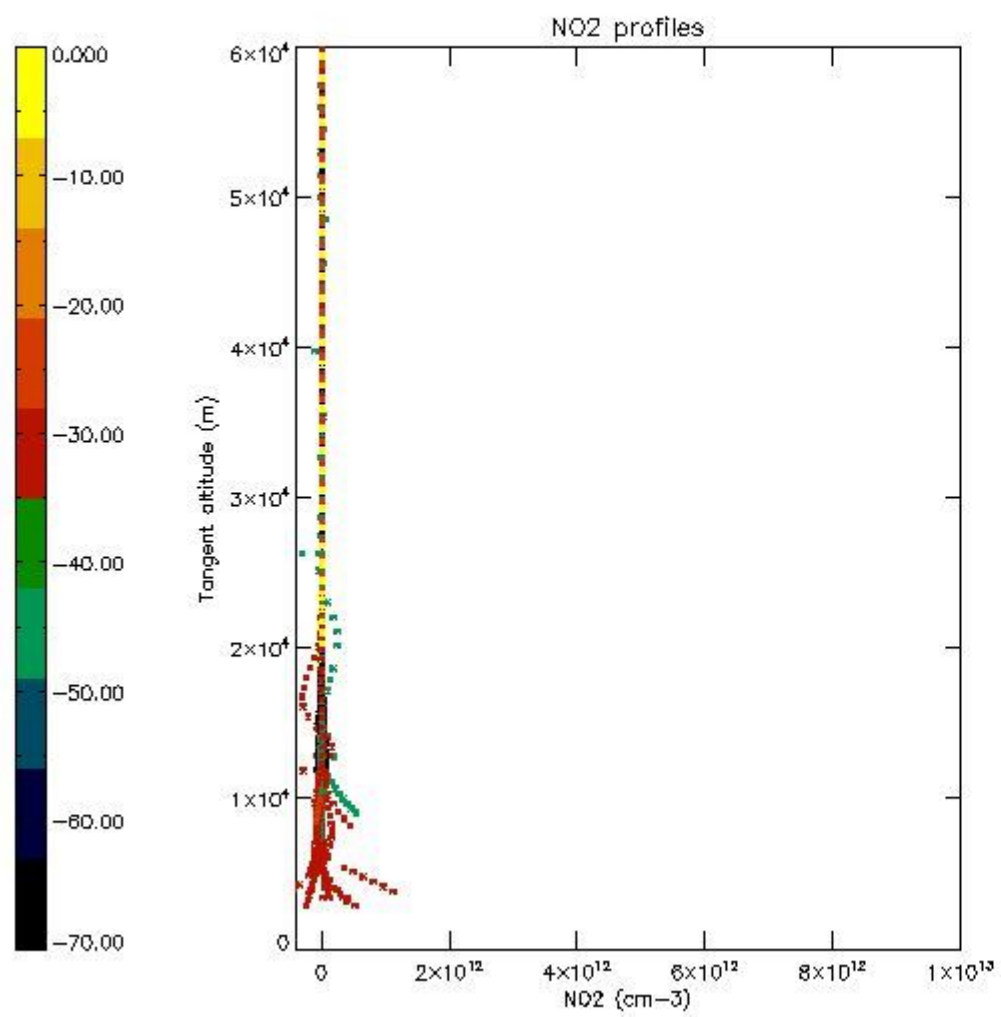
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



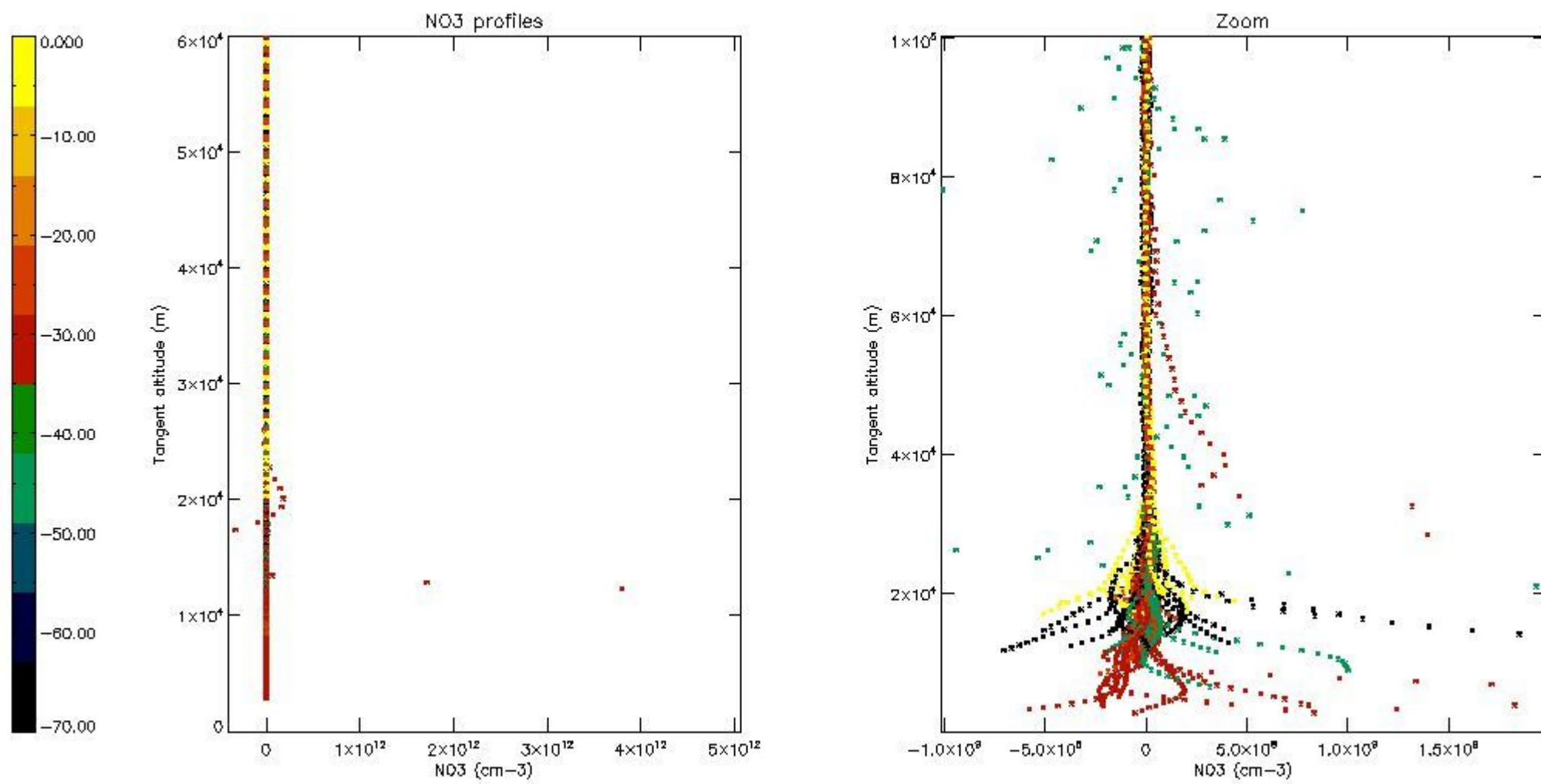
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



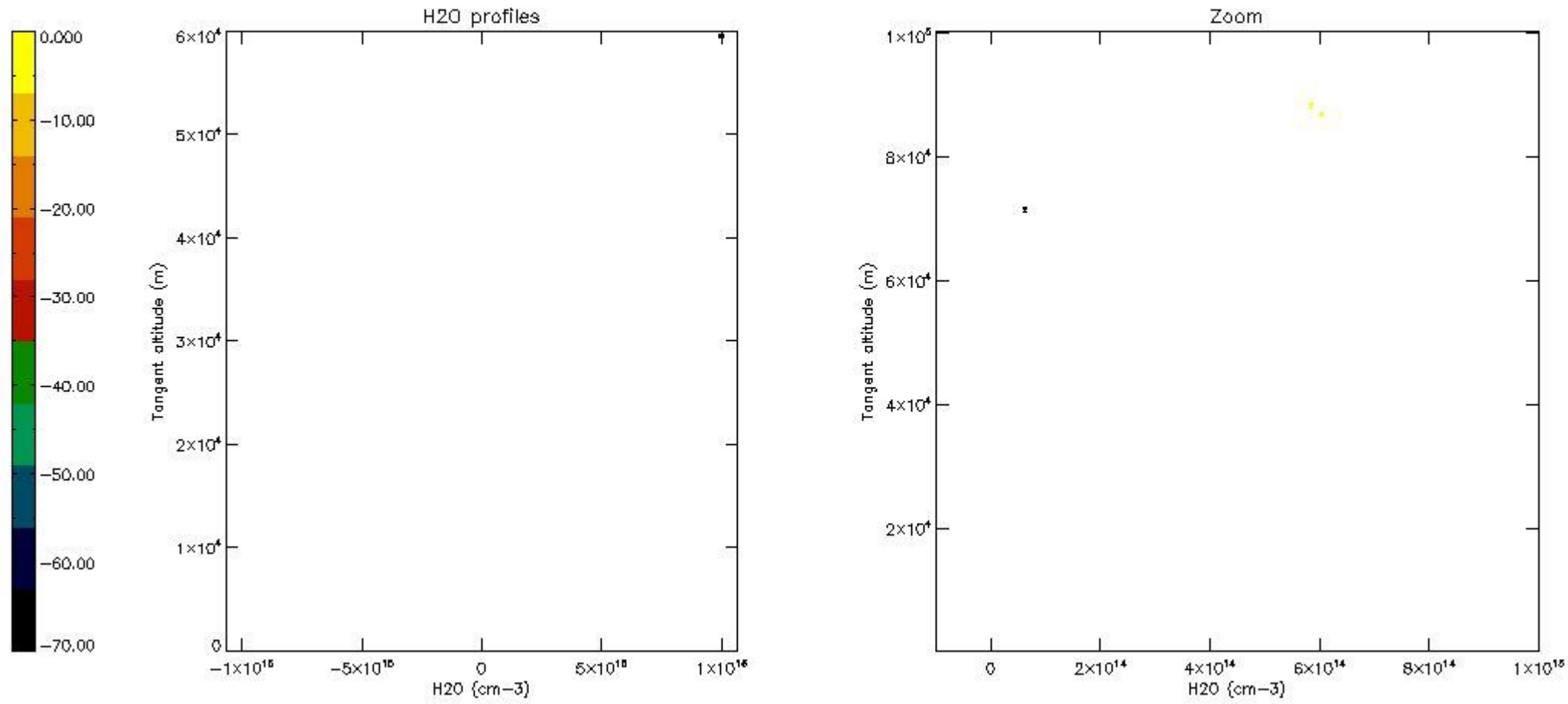
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

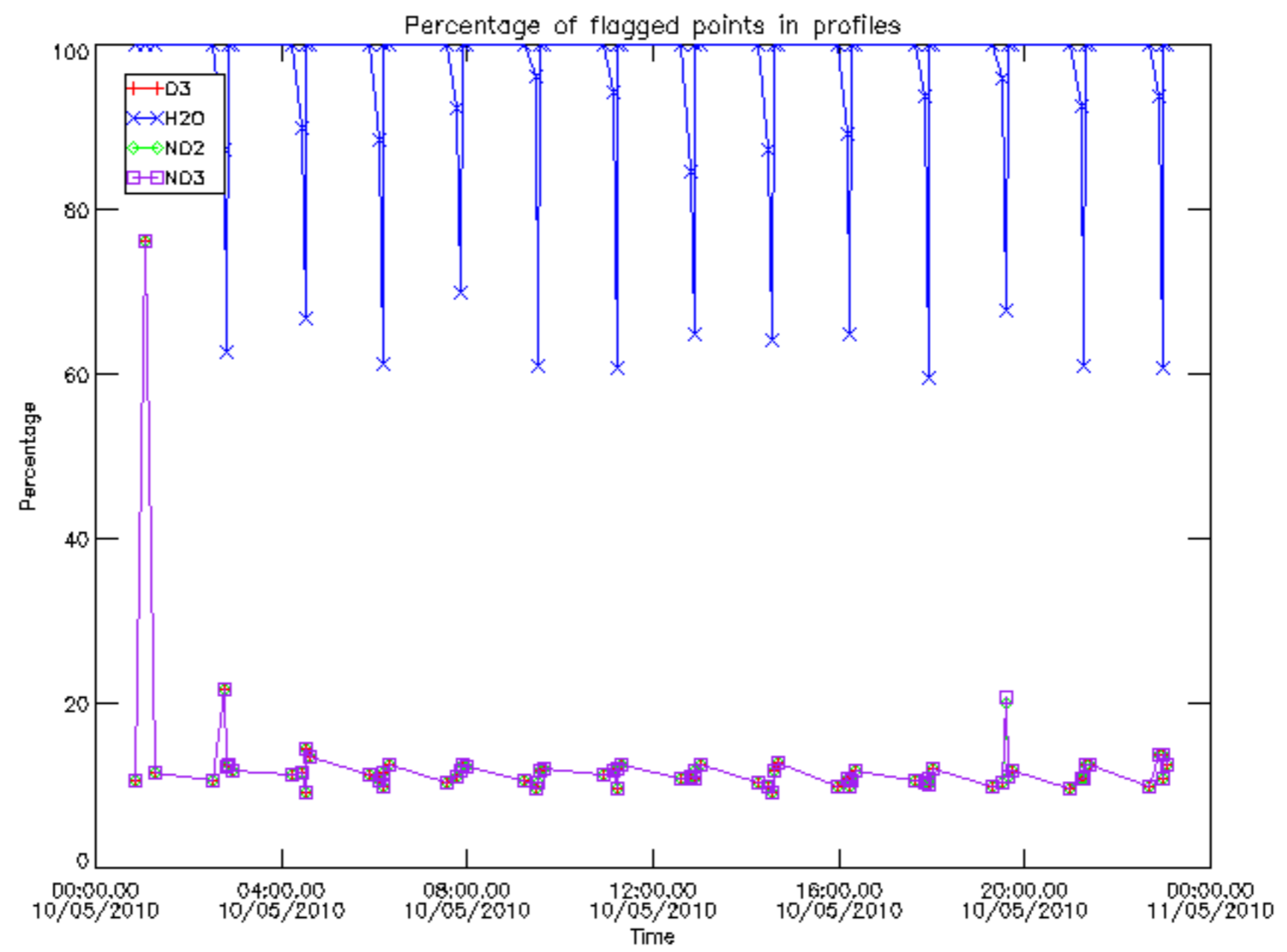
The colorbar represents the latitude.



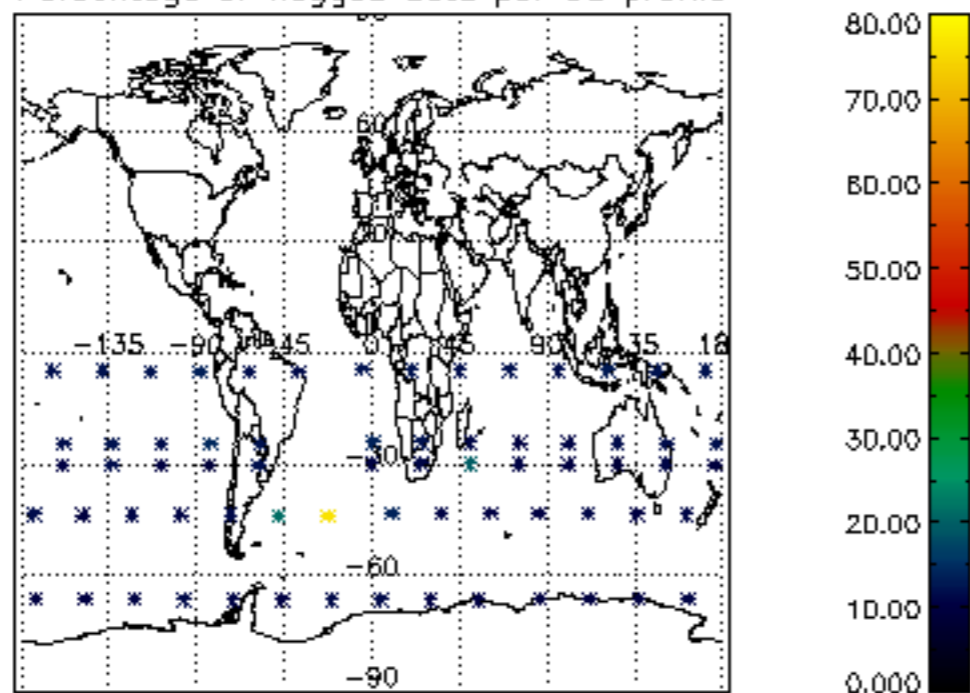
6. Auxiliary Data Files used for the production reported in section 2

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.

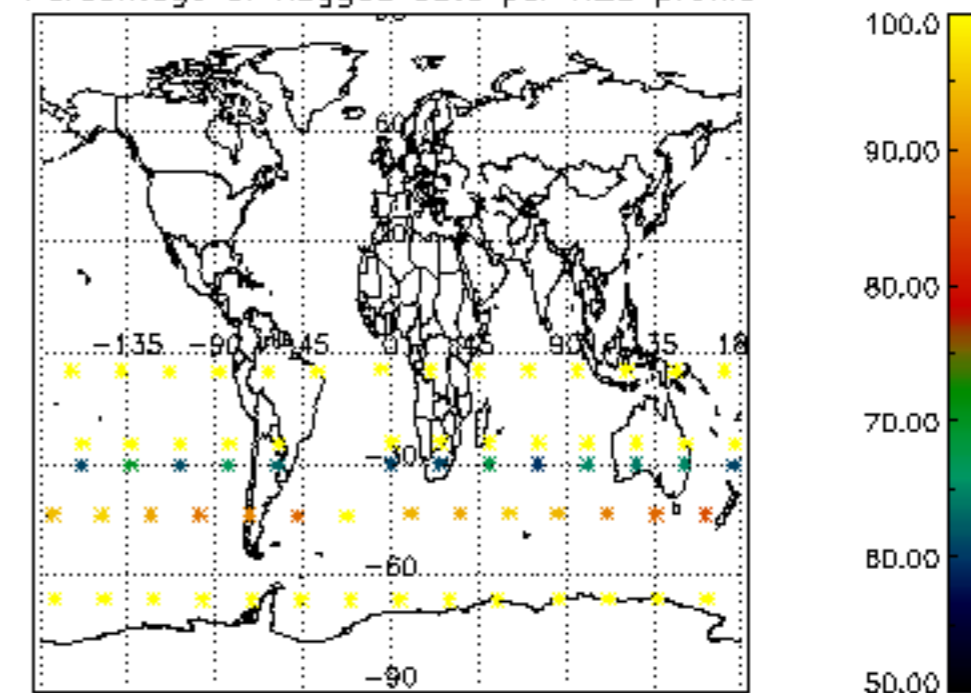
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	10-MAY-2010 00:00:03
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	10-MAY-2010 00:00:03
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	10-MAY-2010 00:00:03



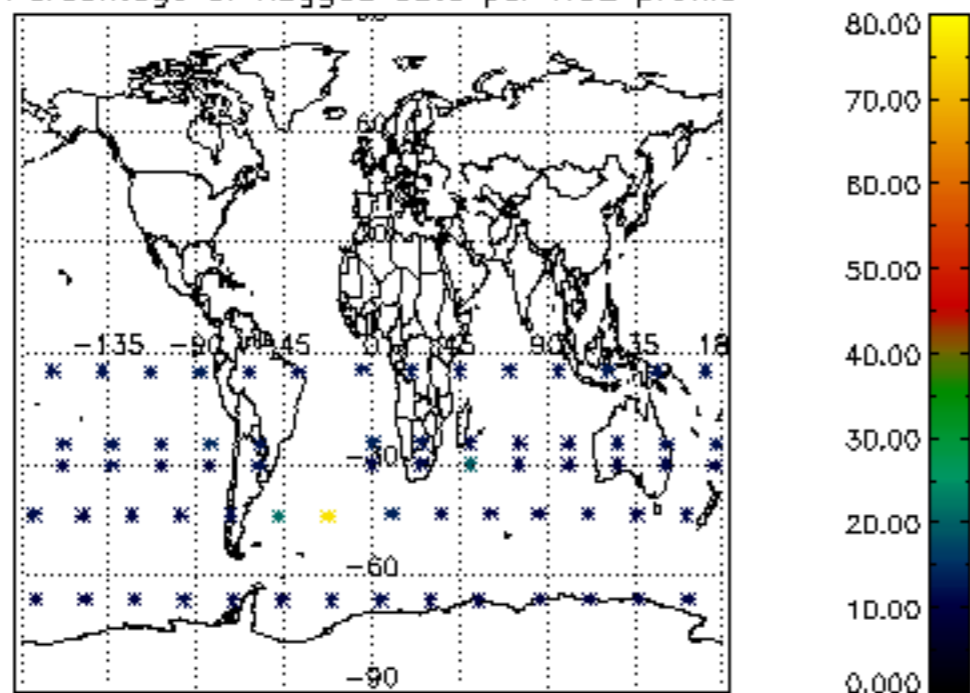
Percentage of flagged data per D3 profile



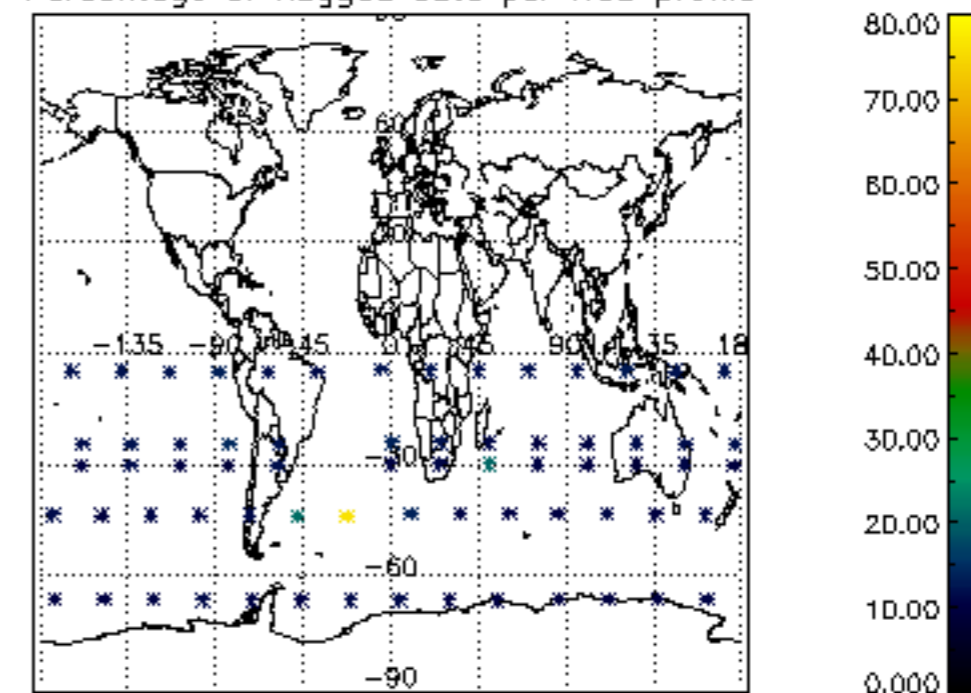
Percentage of flagged data per H2O profile

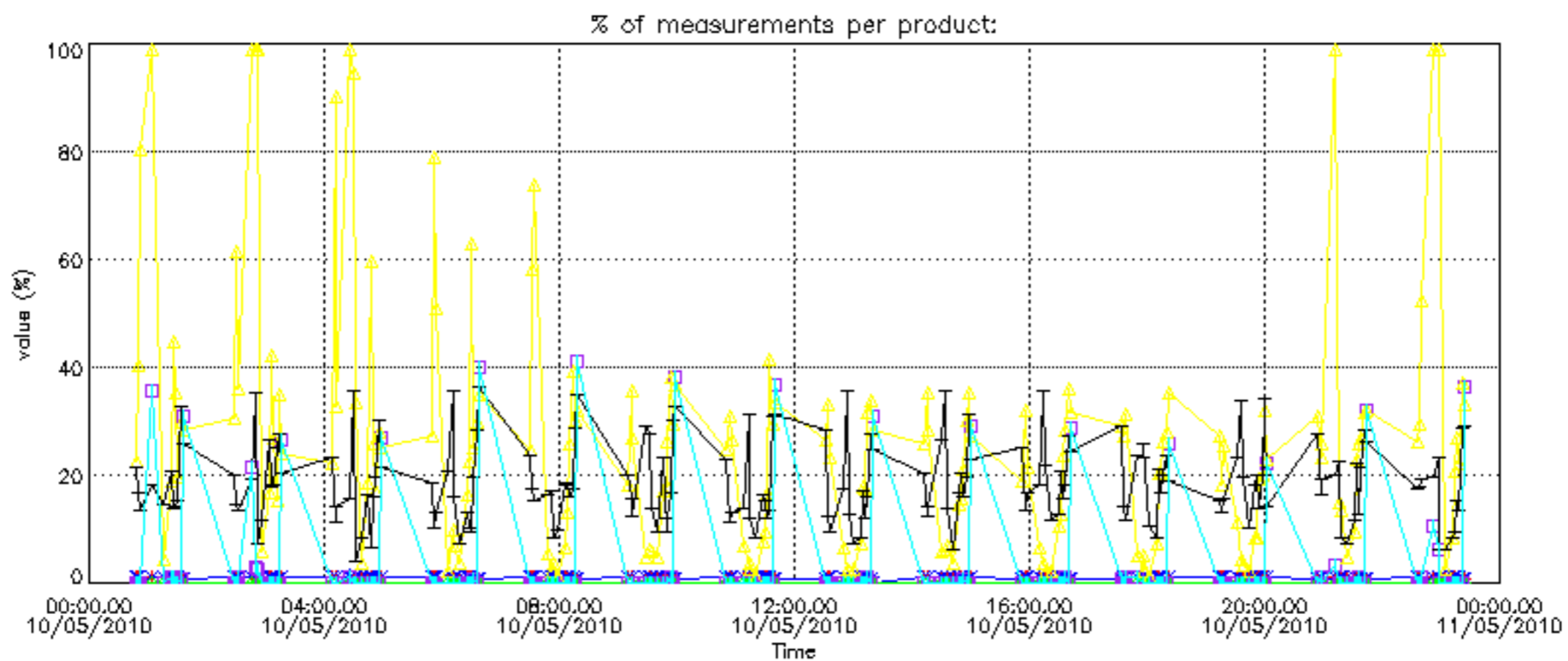


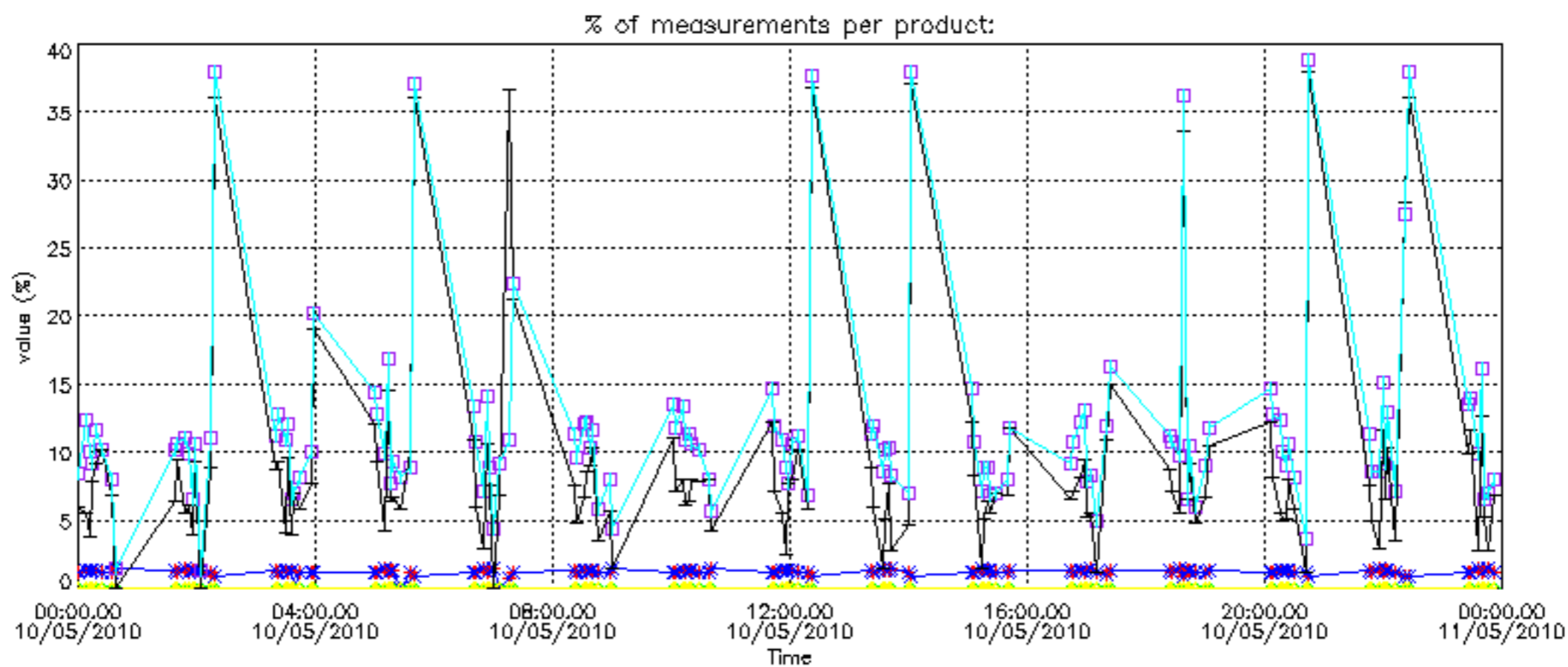
Percentage of flagged data per NO2 profile



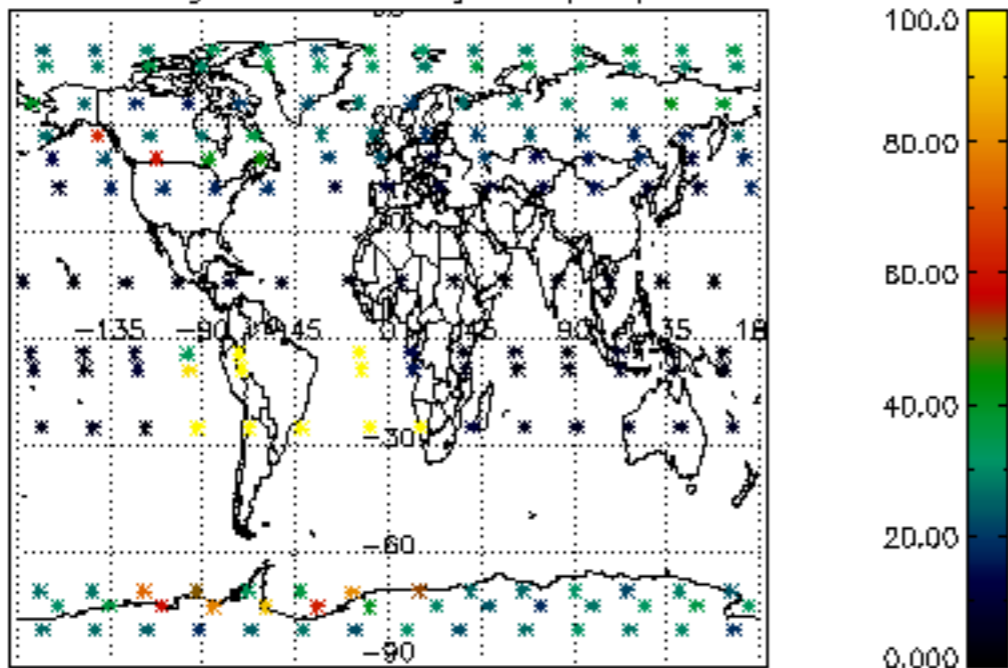
Percentage of flagged data per NO3 profile



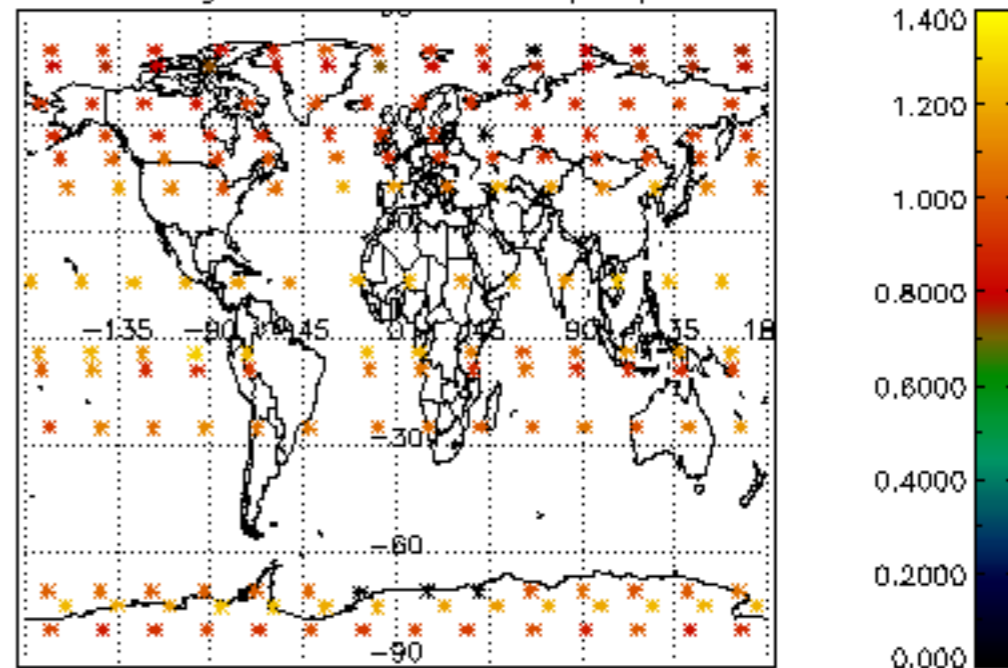




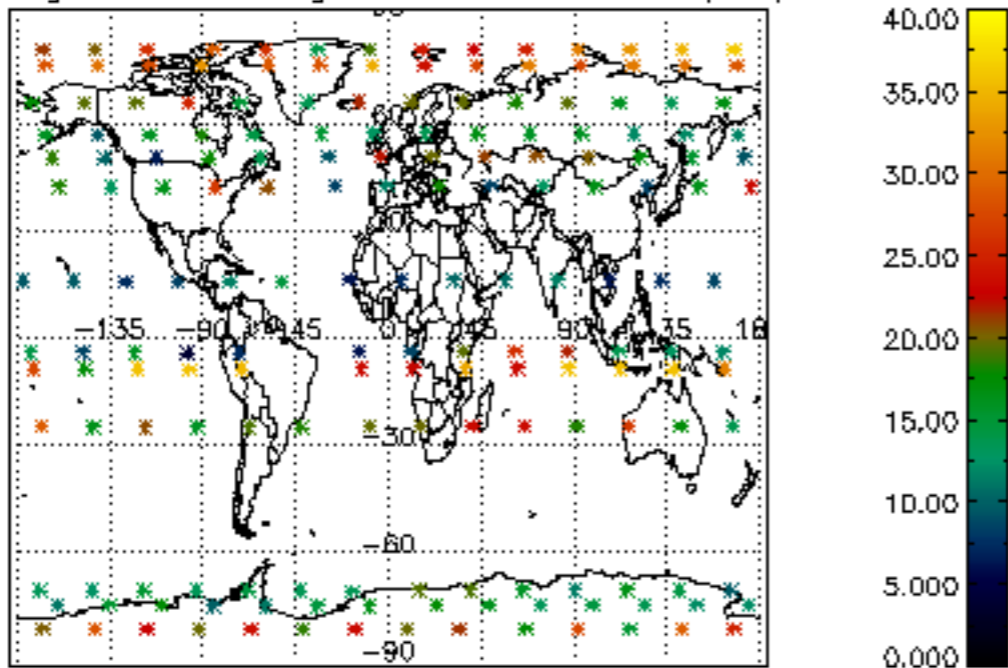
Percentage of cosmic ray hits per profile



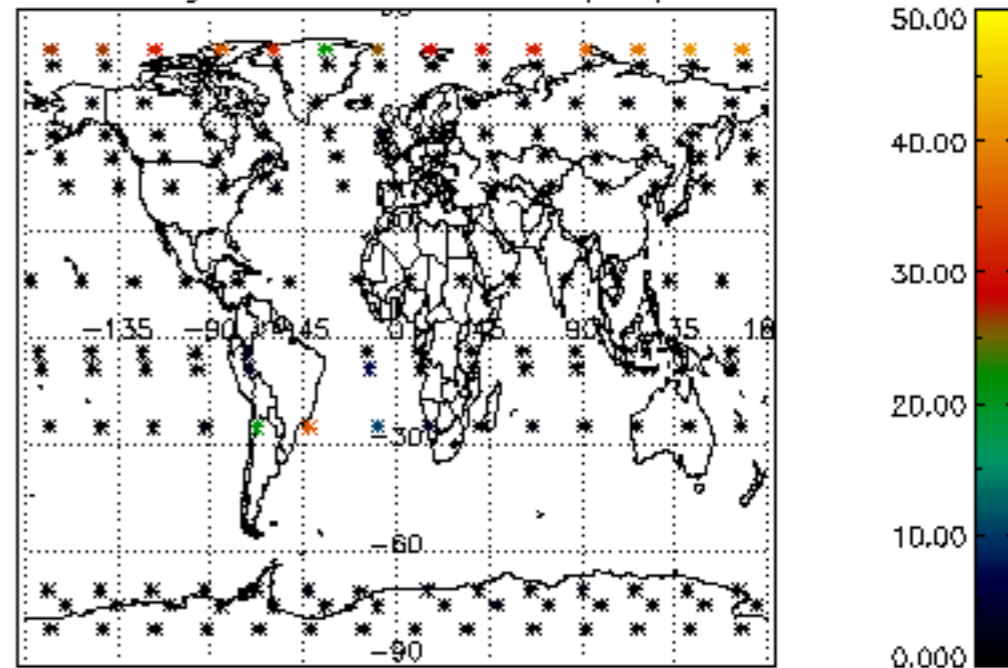
Percentage of datation errors per profile



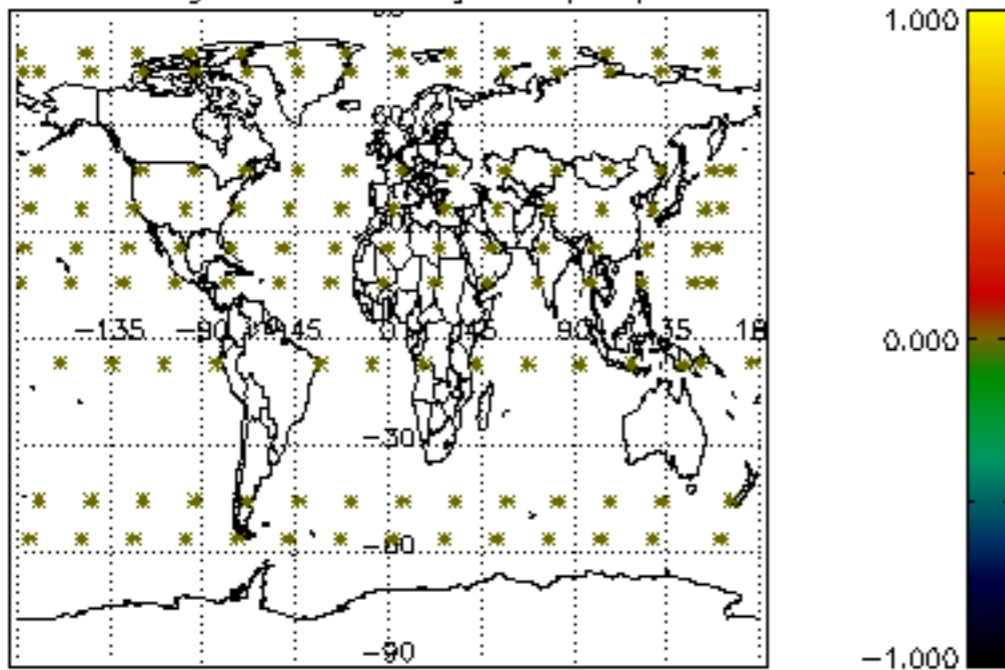
Percentage of star falling outside central band per profile



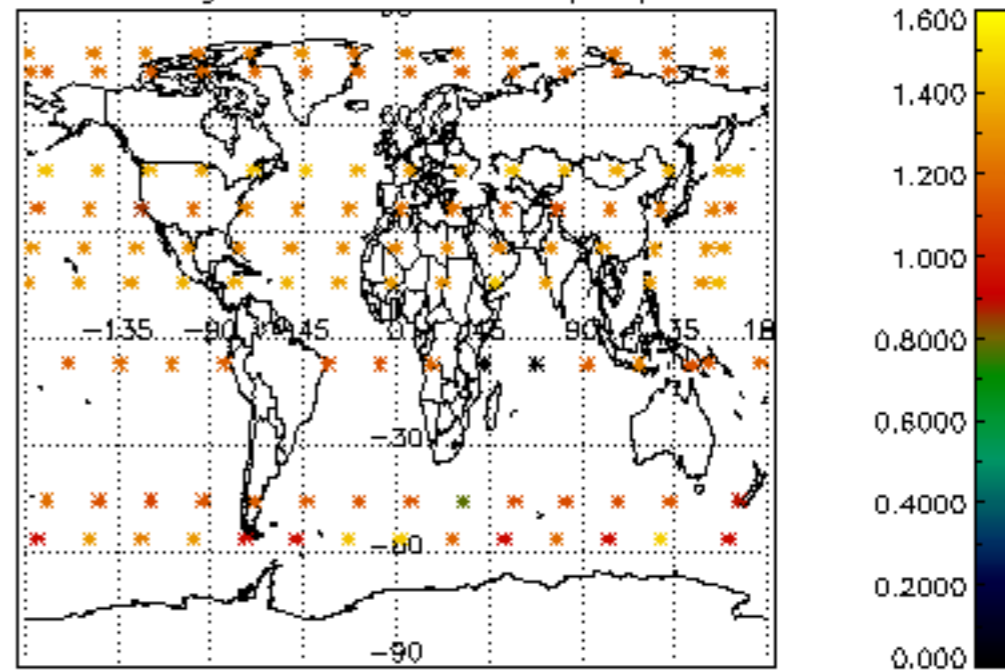
Percentage of saturation errors per profile



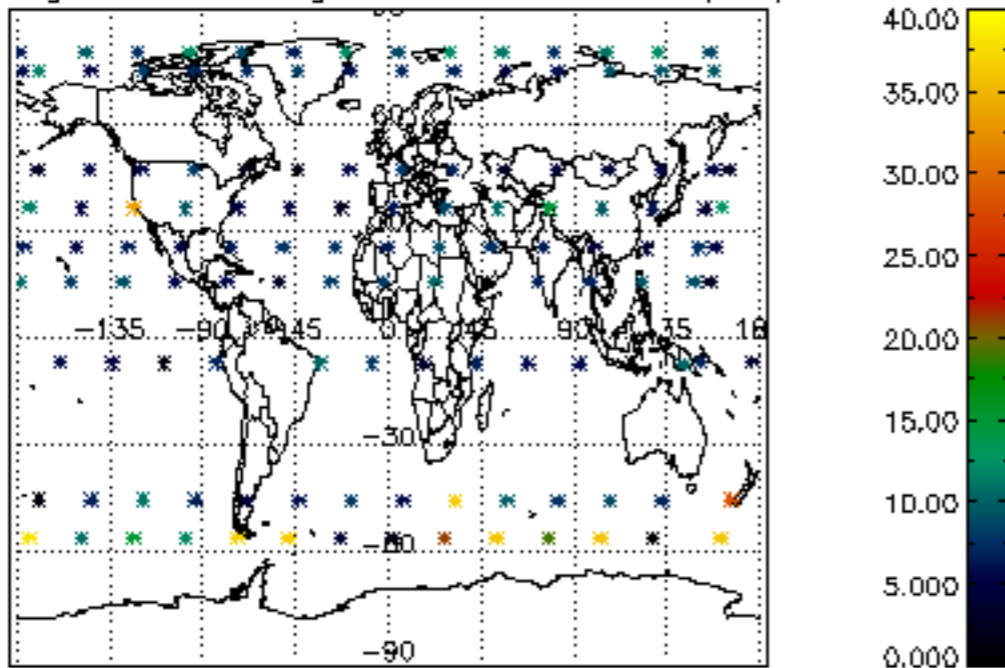
Percentage of cosmic ray hits per profile



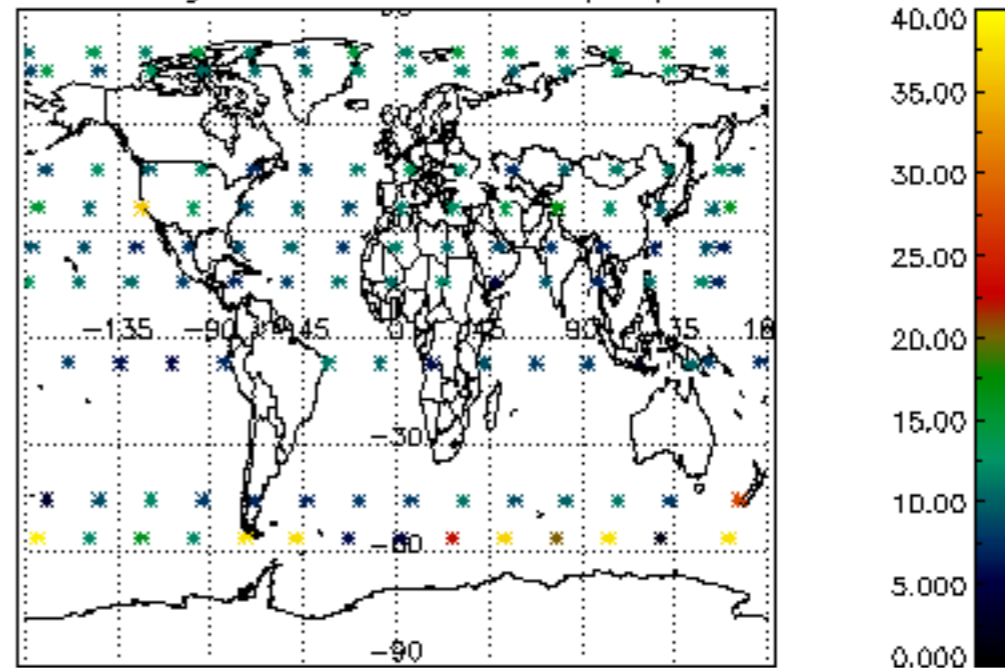
Percentage of datation errors per profile

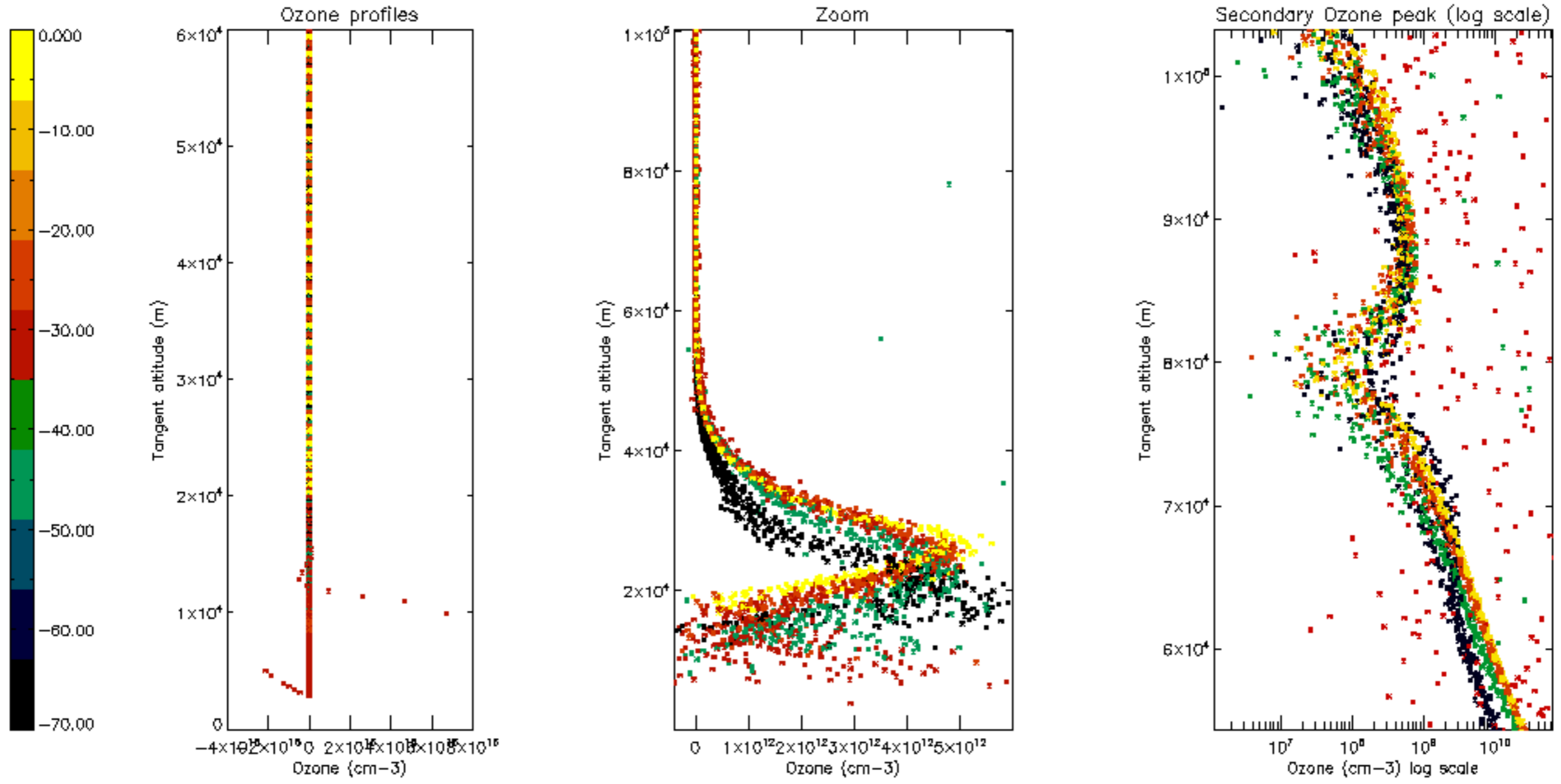


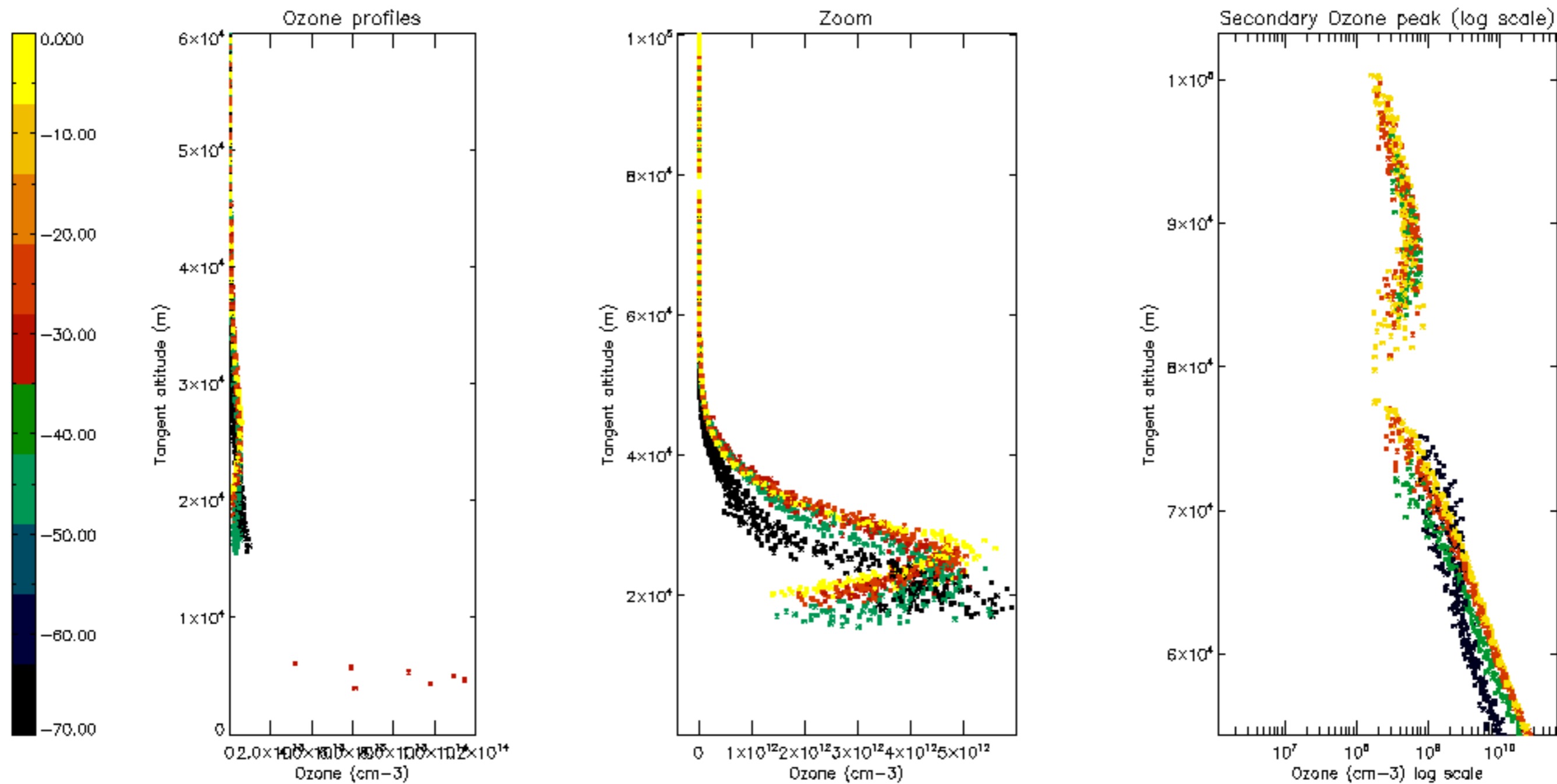
Percentage of star falling outside central band per profile

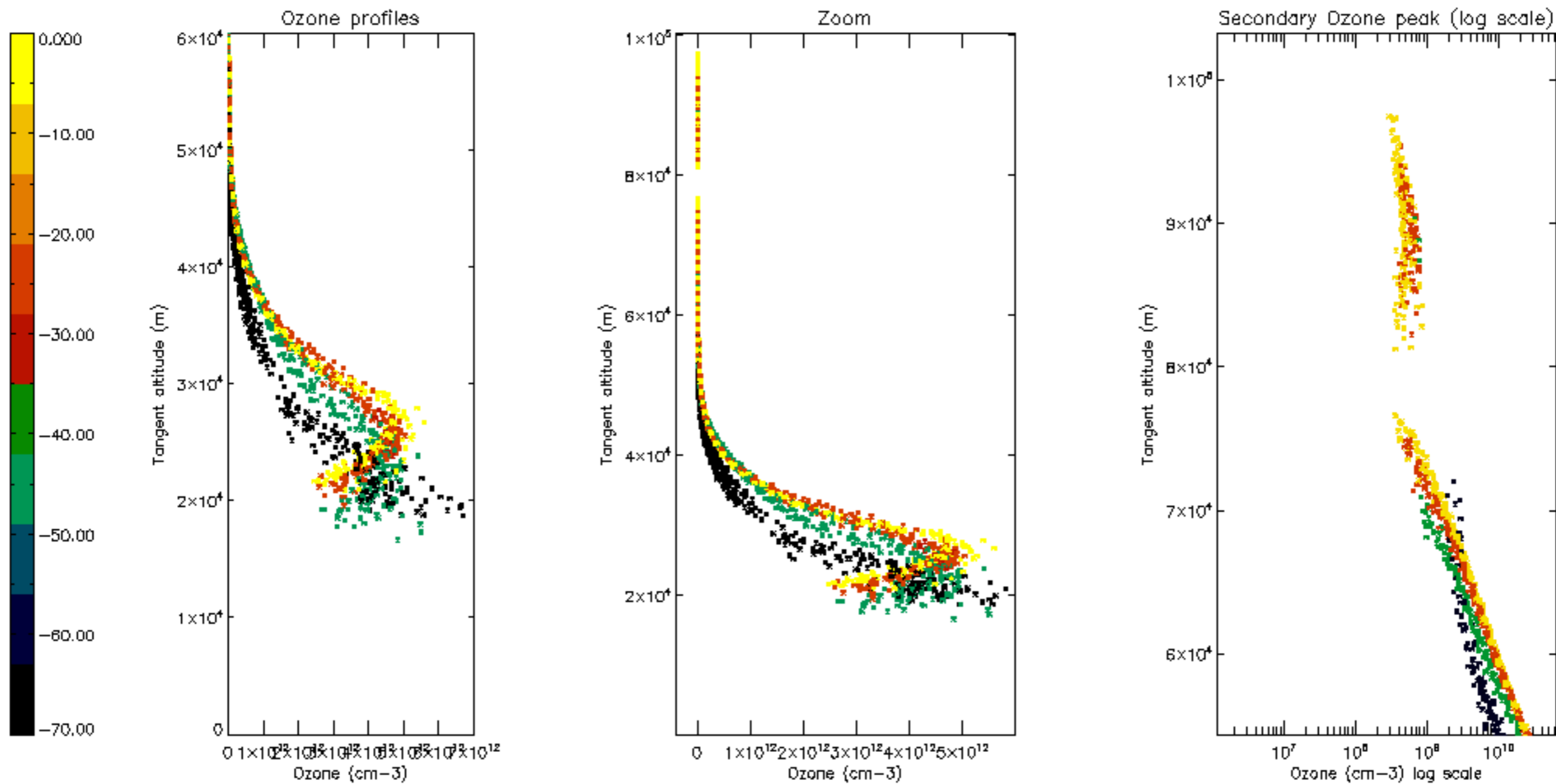


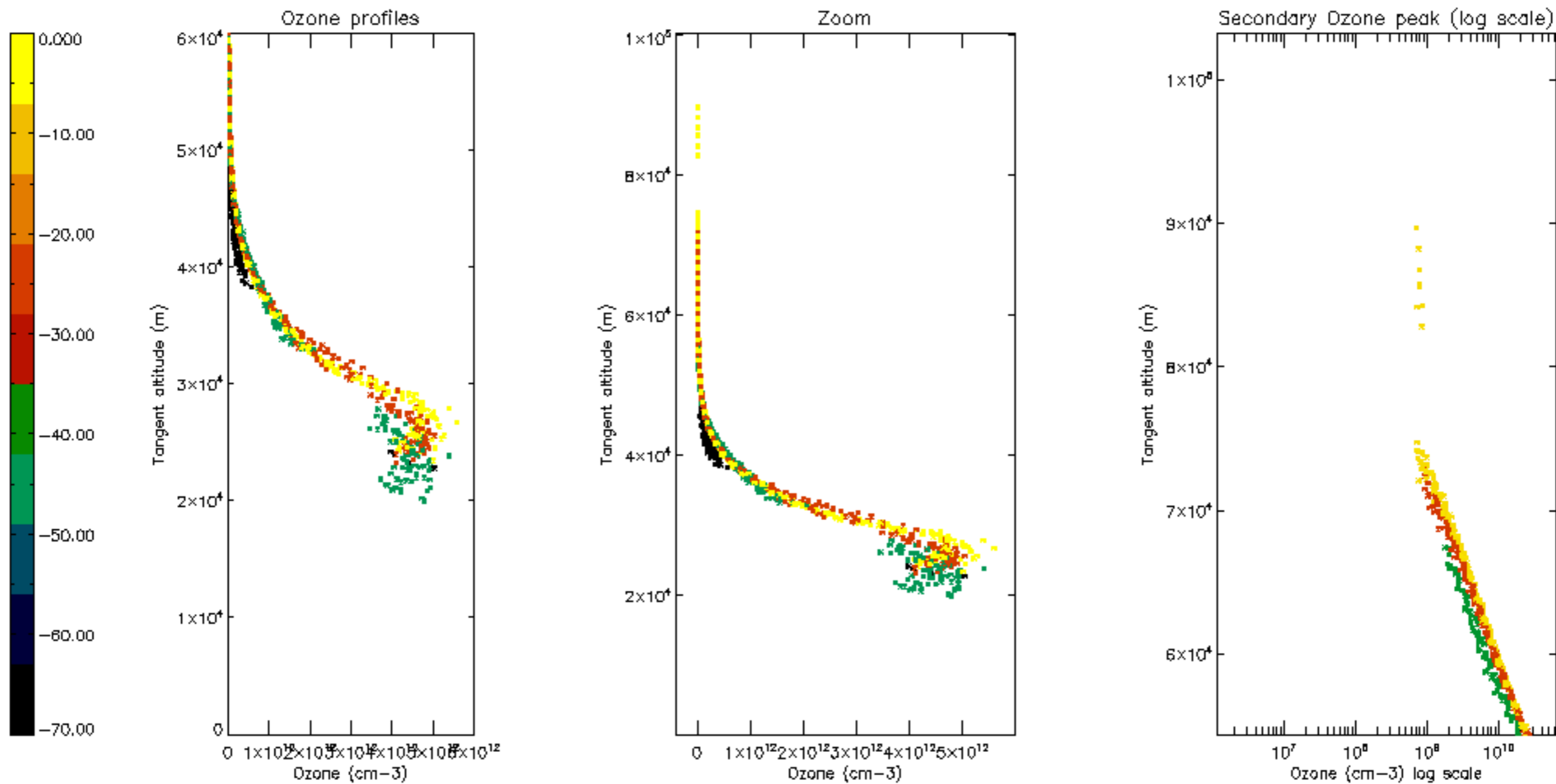
Percentage of saturation errors per profile

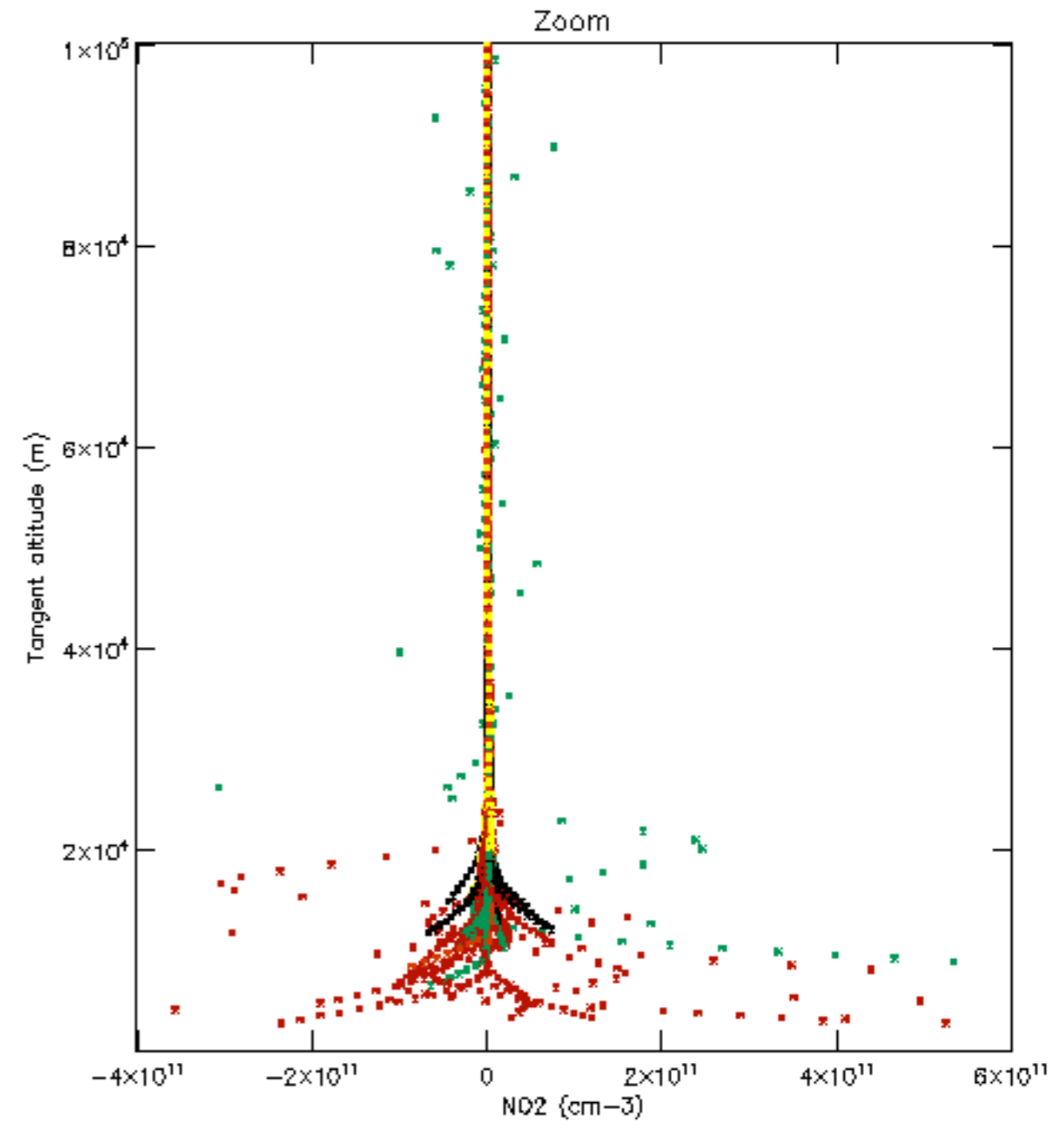
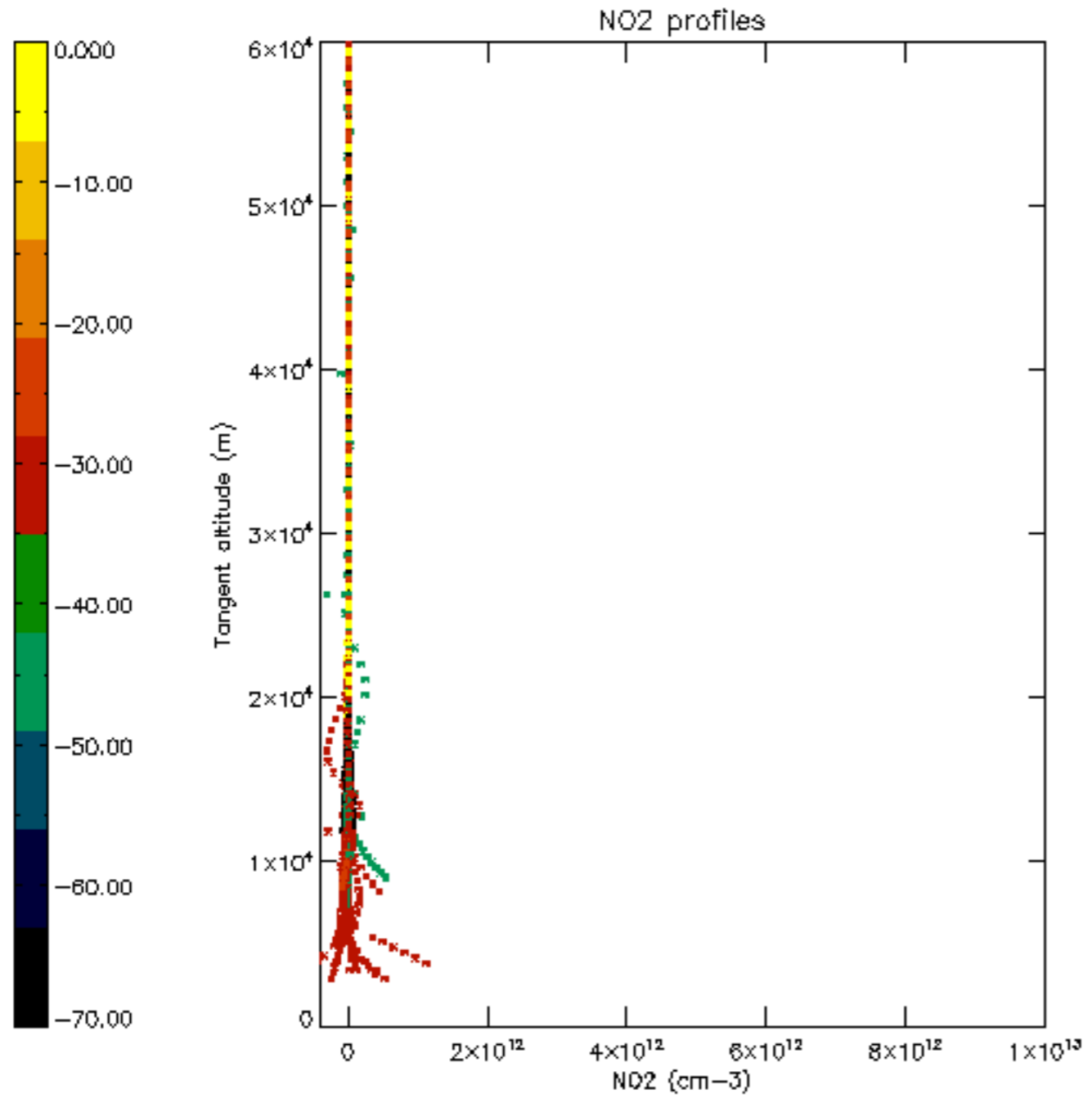


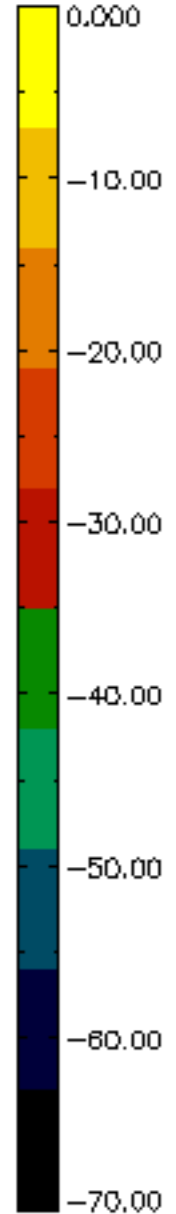
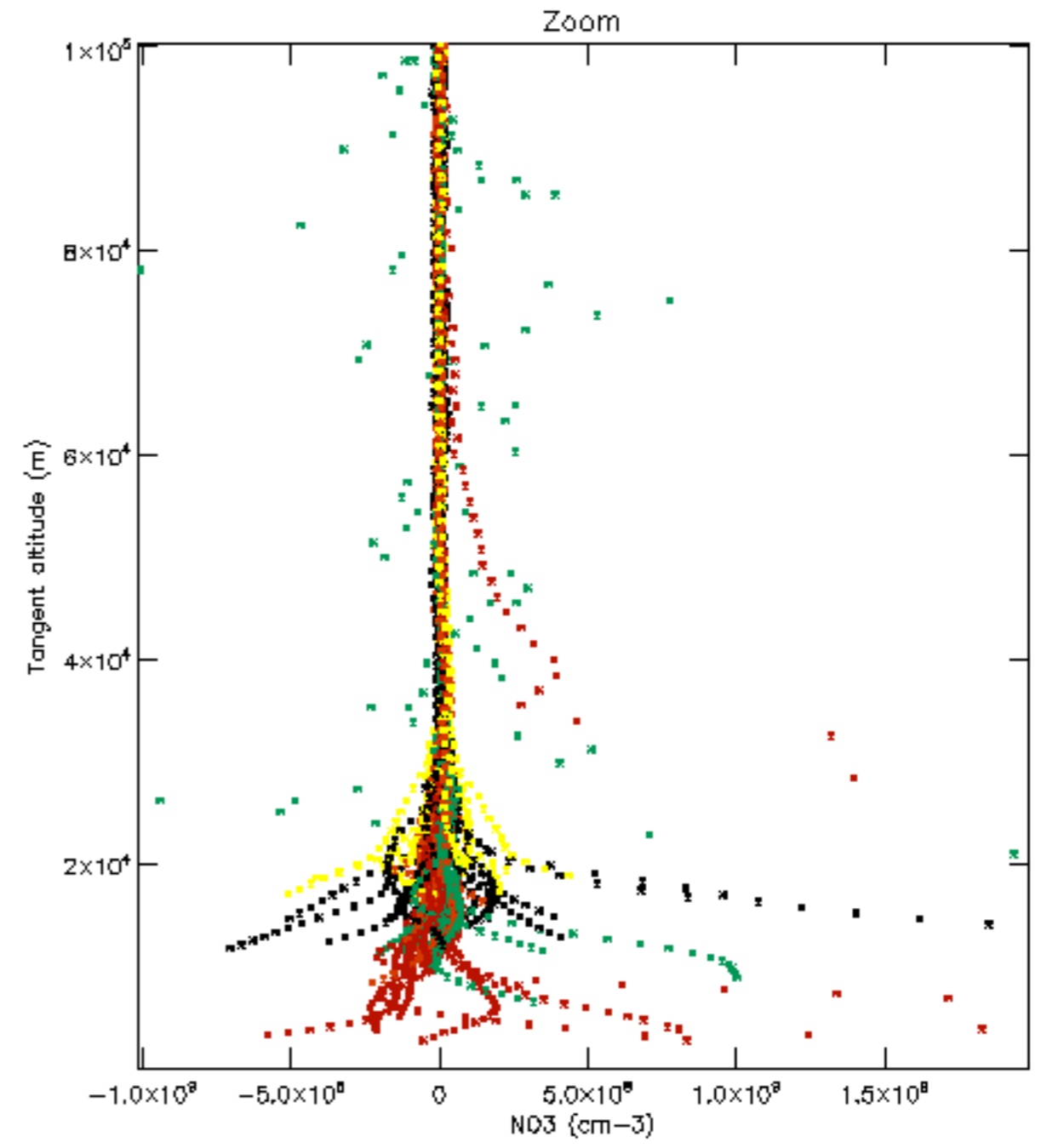
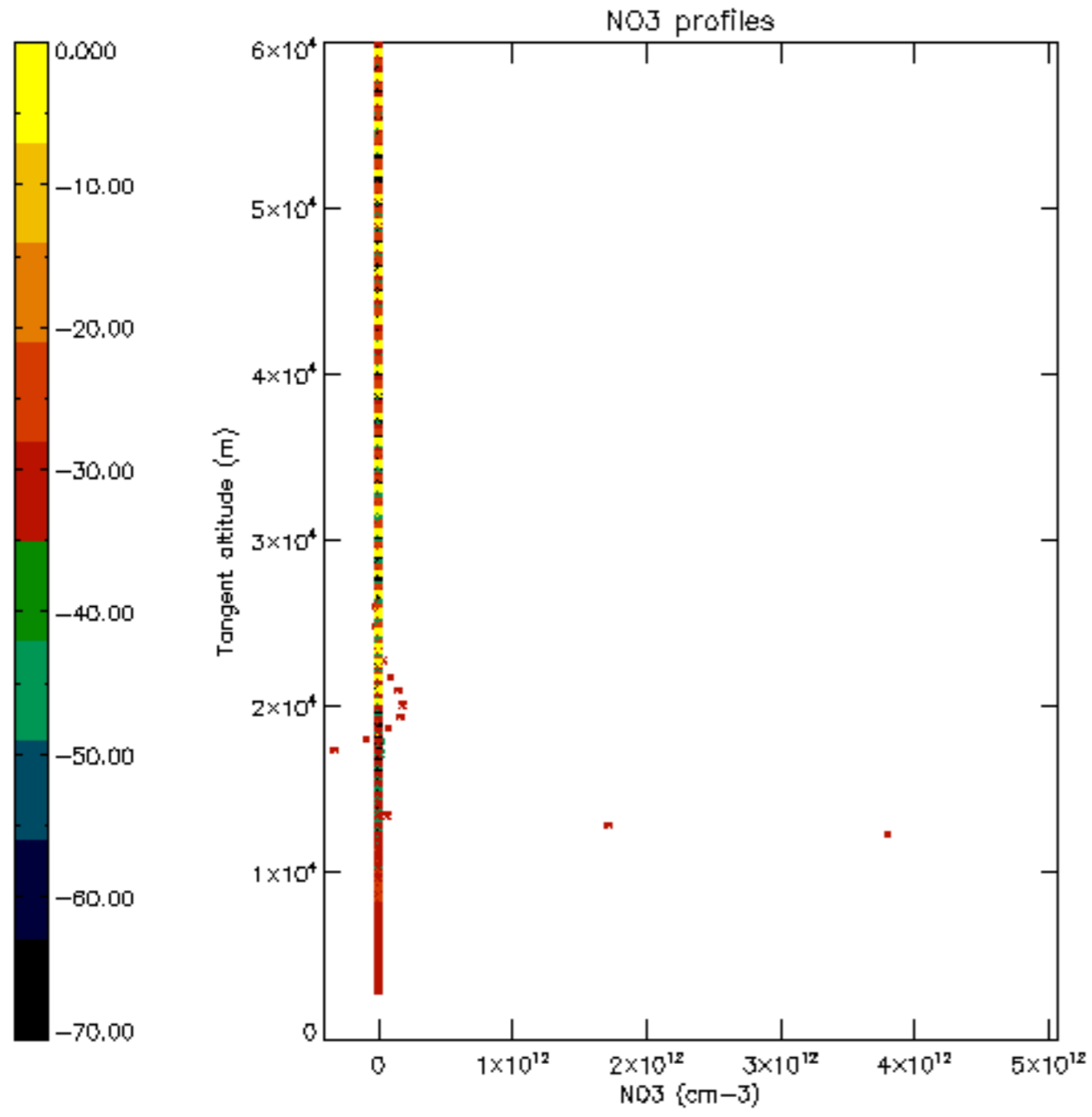


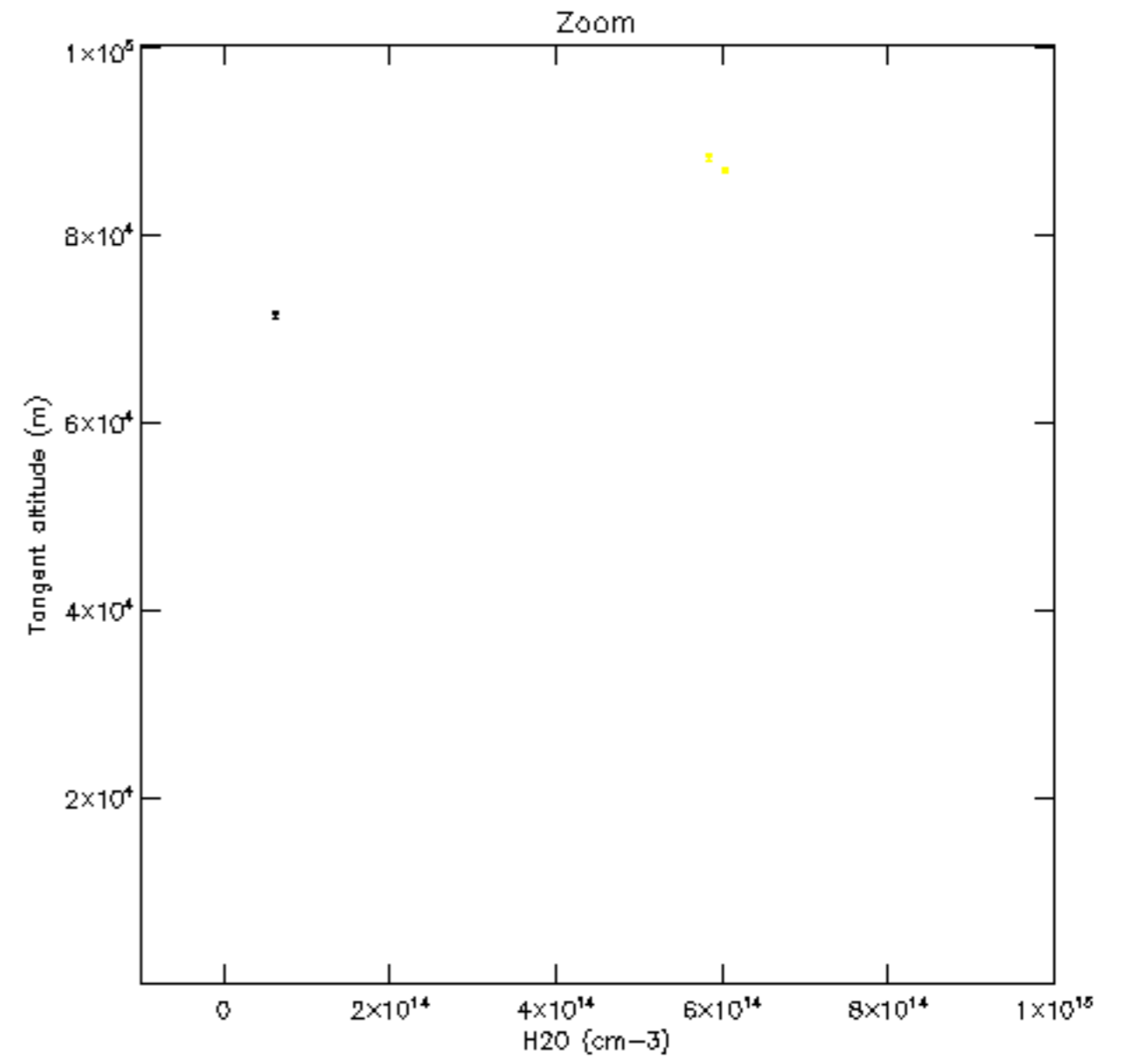
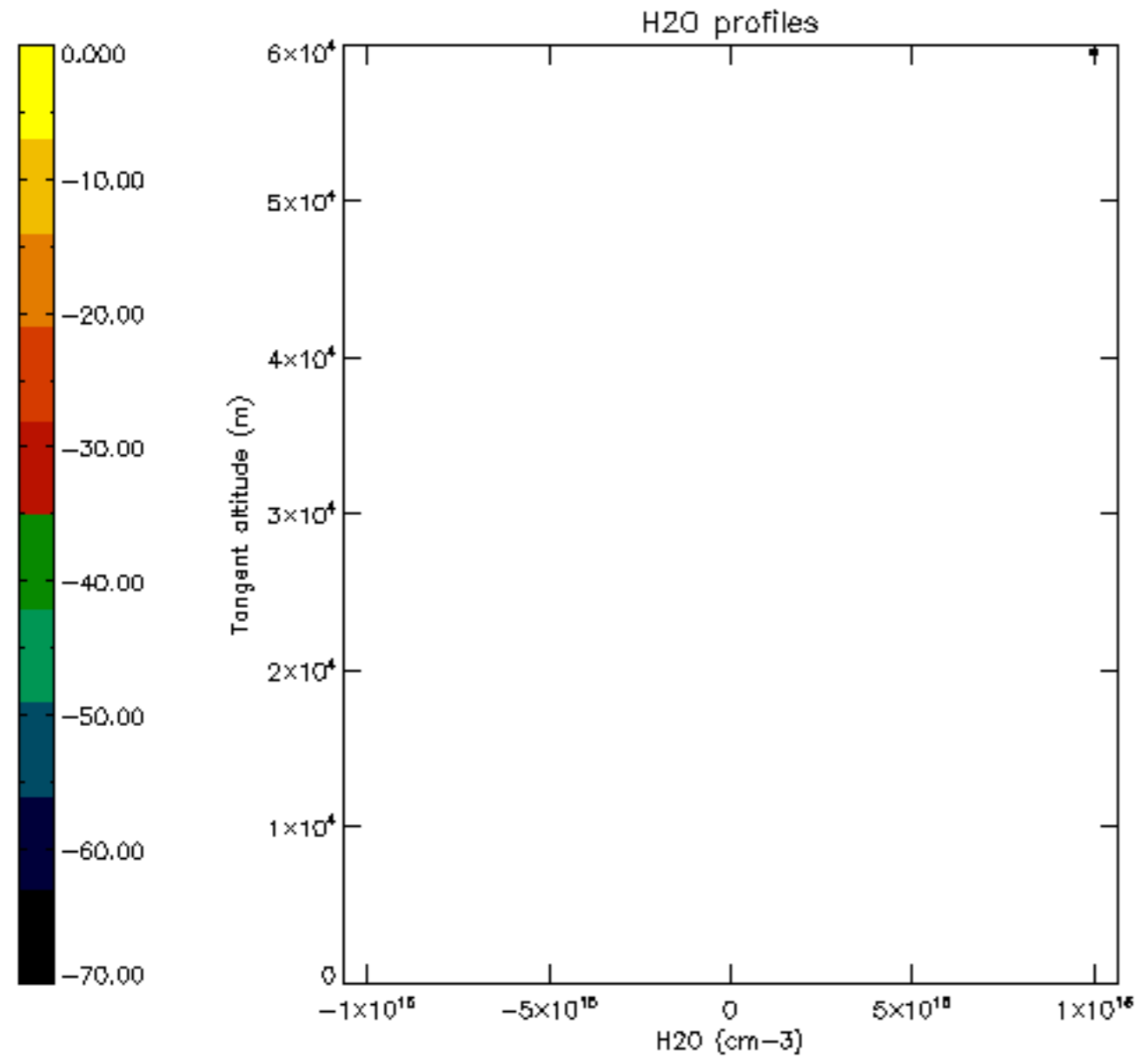


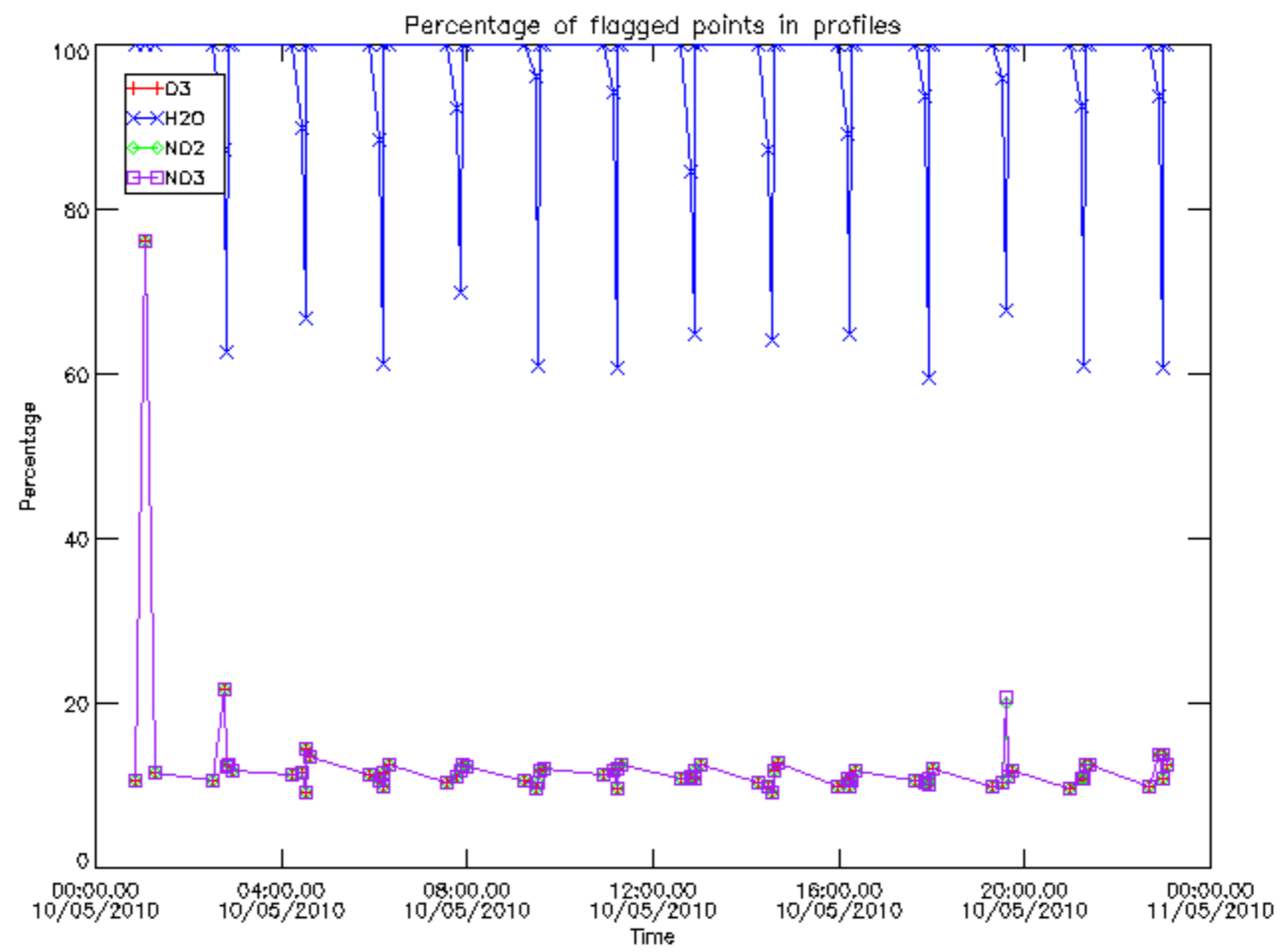




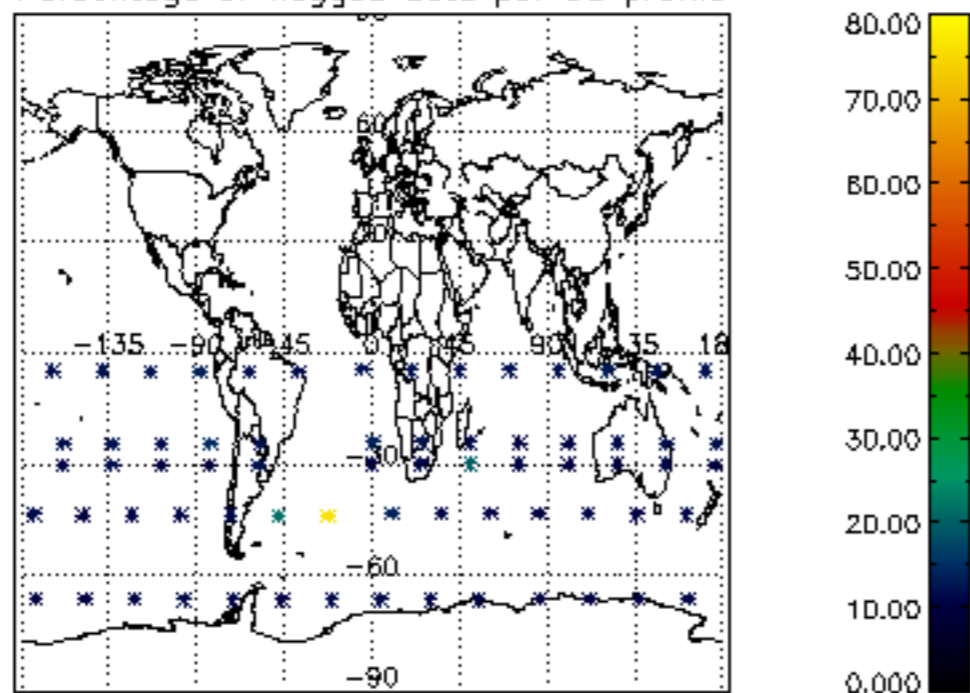




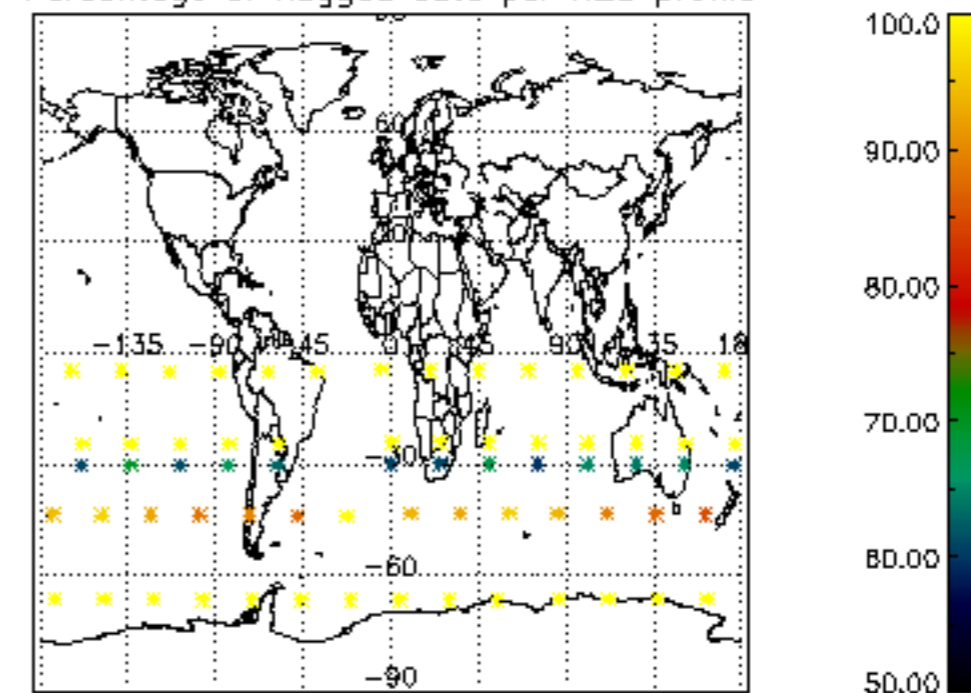




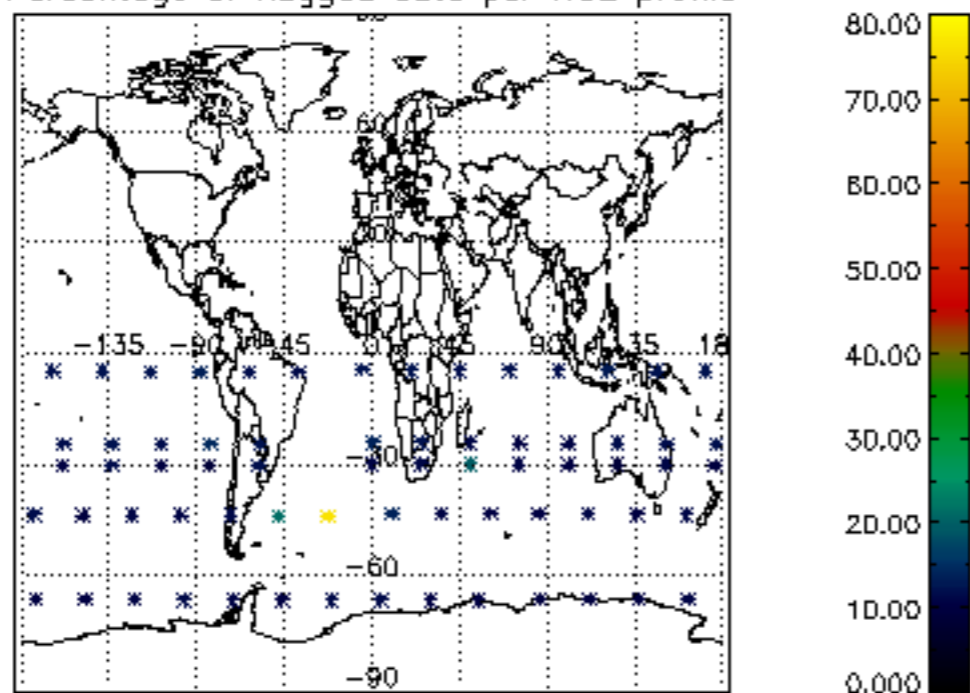
Percentage of flagged data per D3 profile



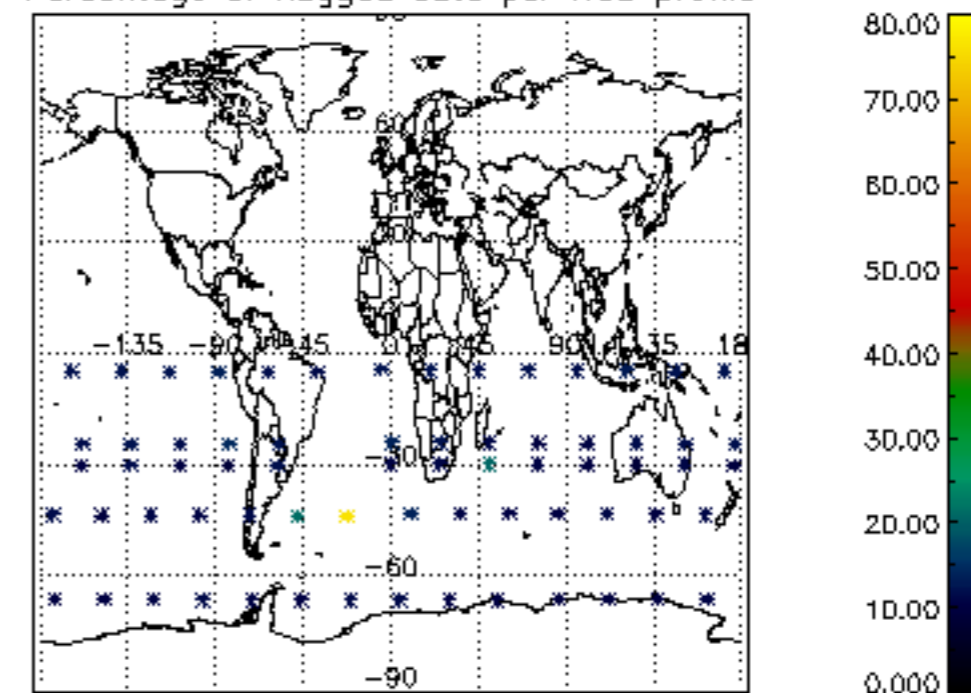
Percentage of flagged data per H2O profile

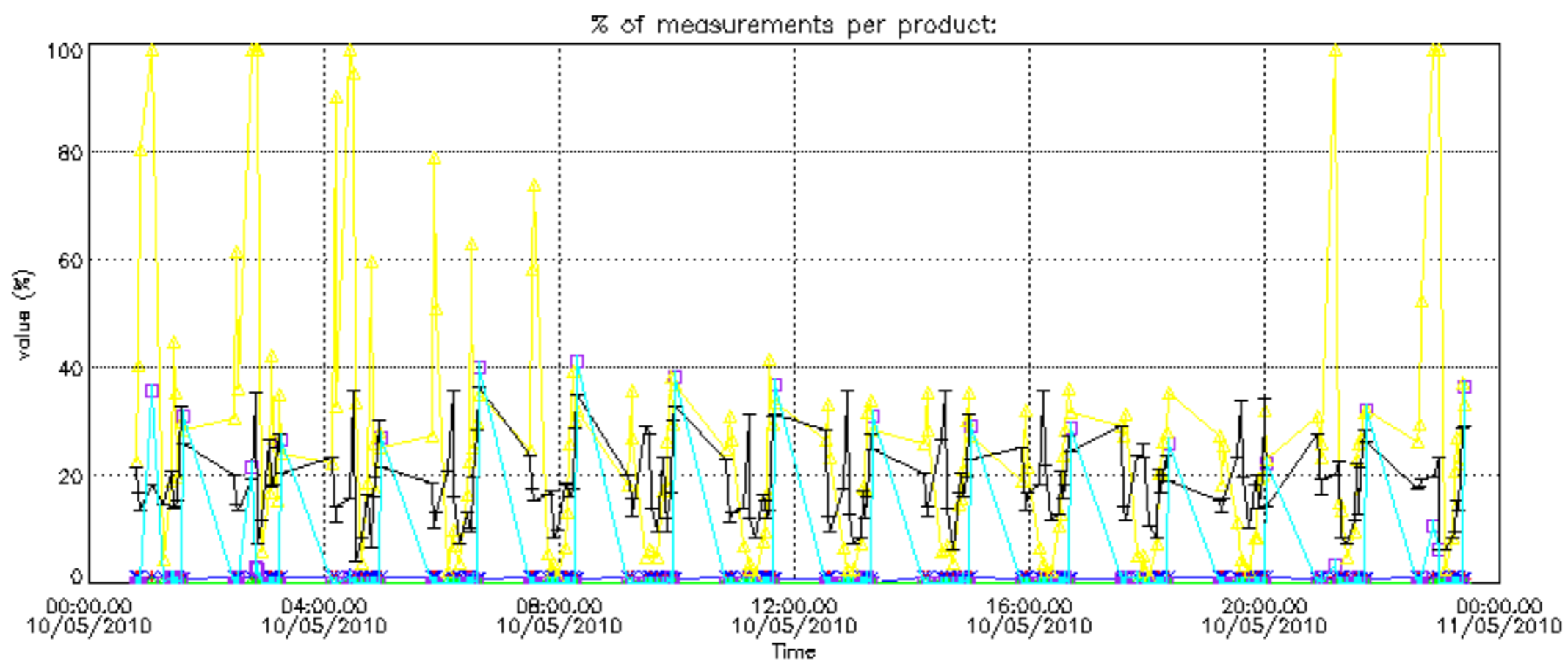


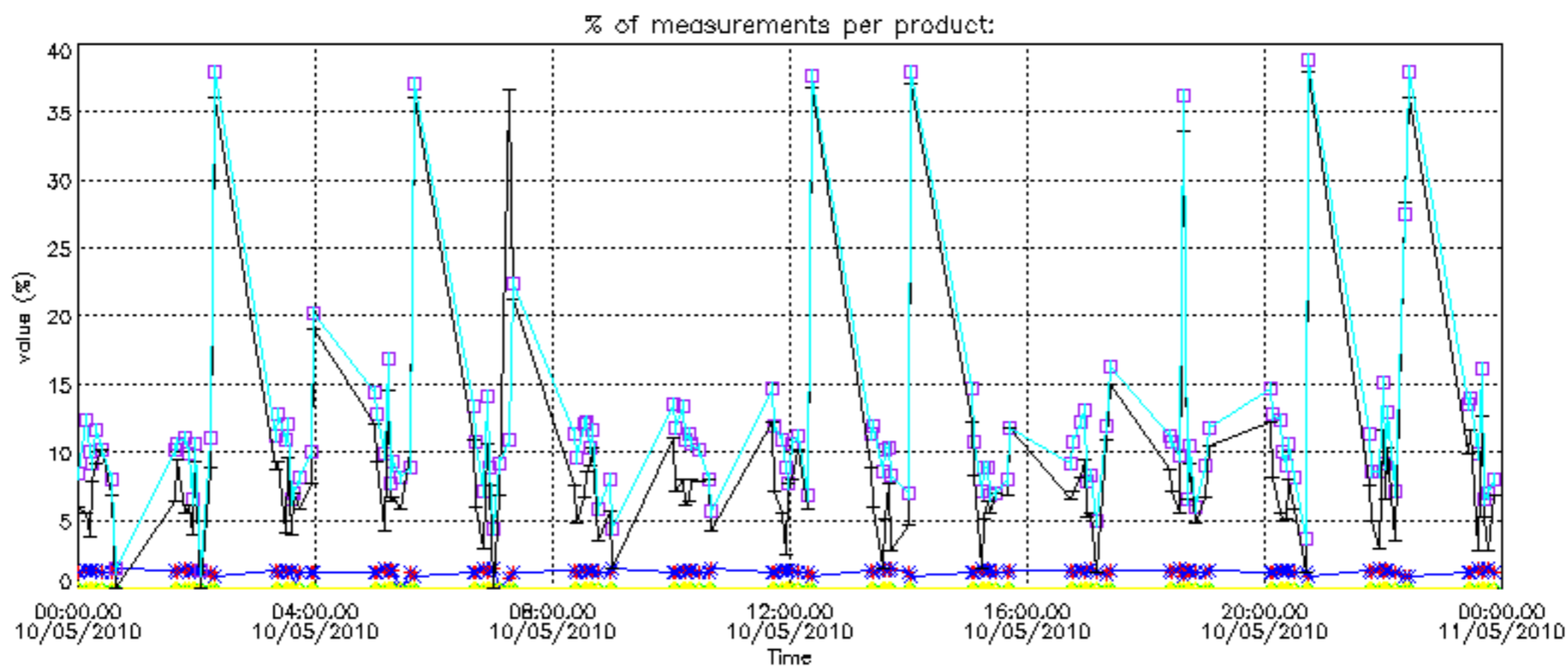
Percentage of flagged data per NO2 profile



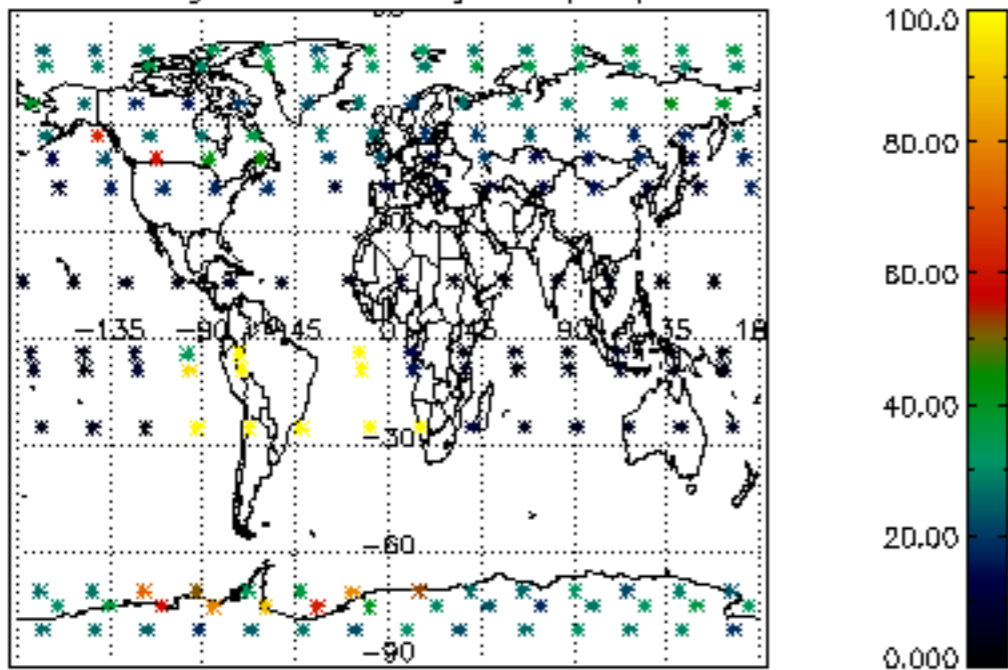
Percentage of flagged data per NO3 profile



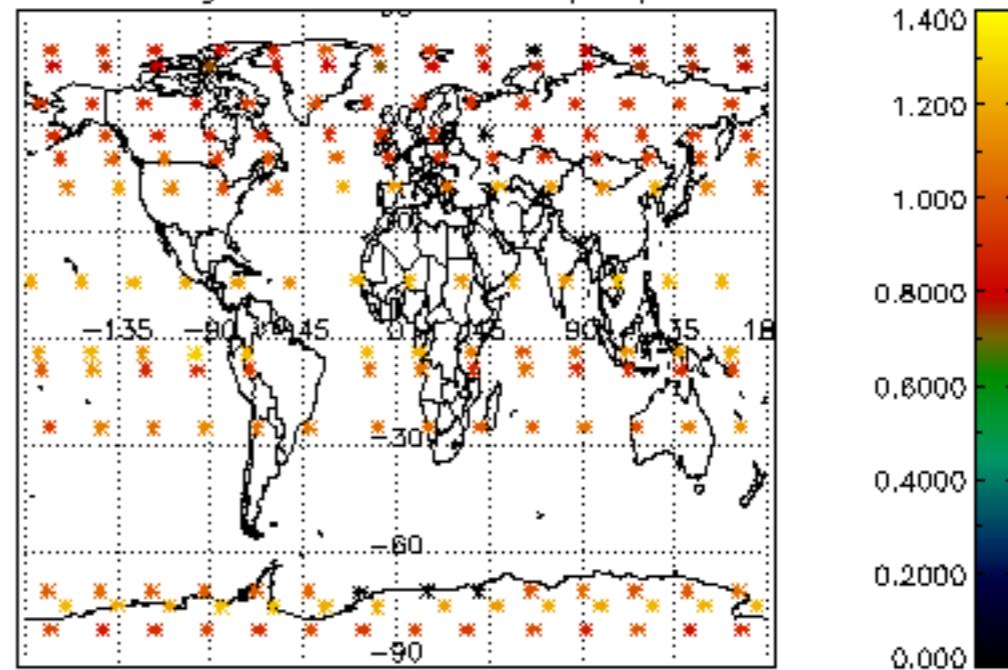




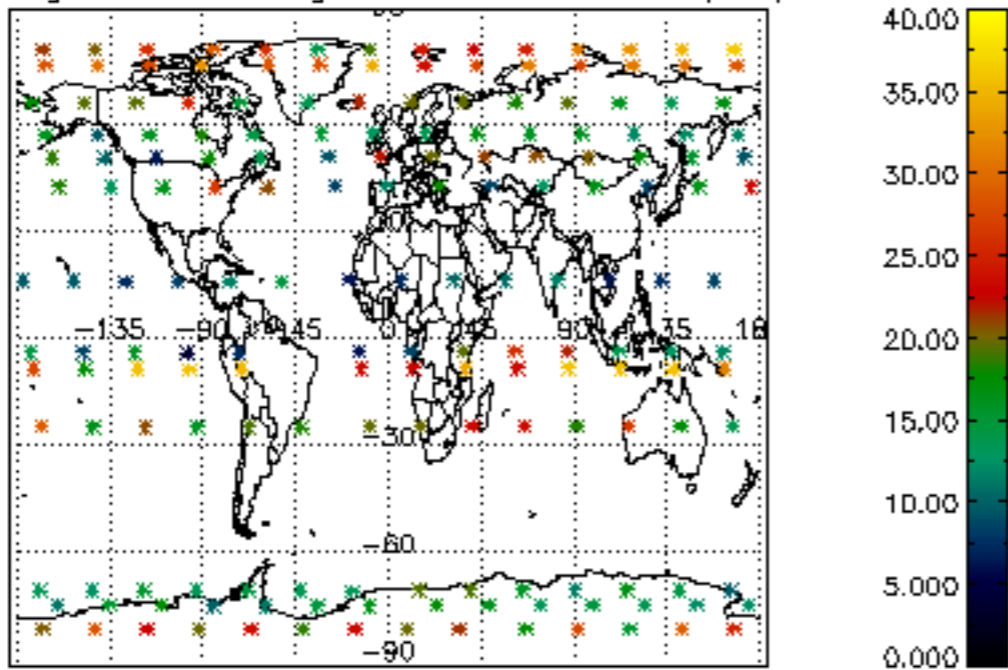
Percentage of cosmic ray hits per profile



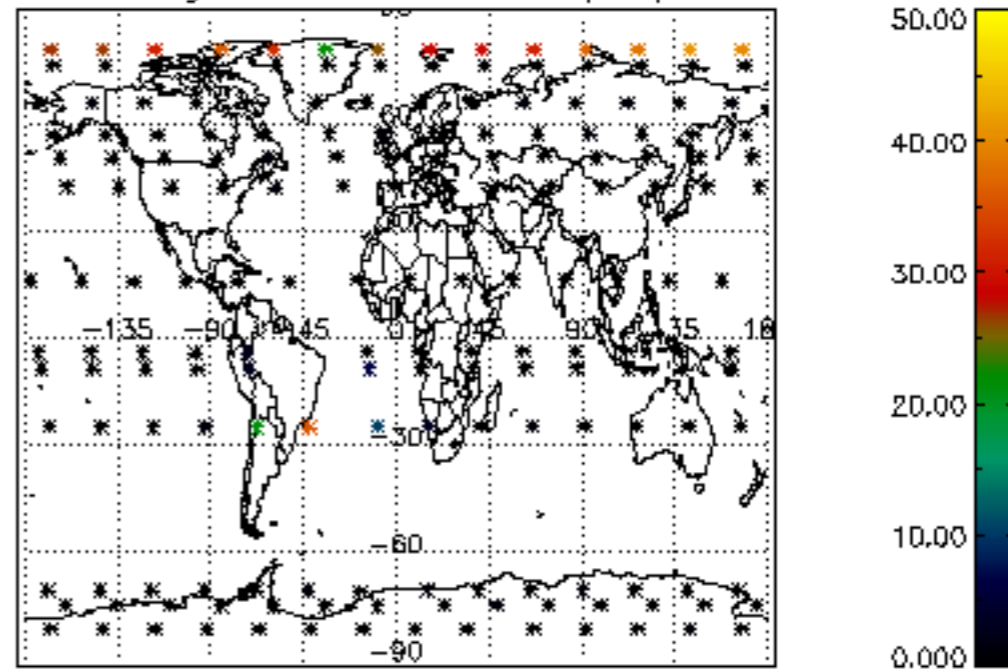
Percentage of datation errors per profile



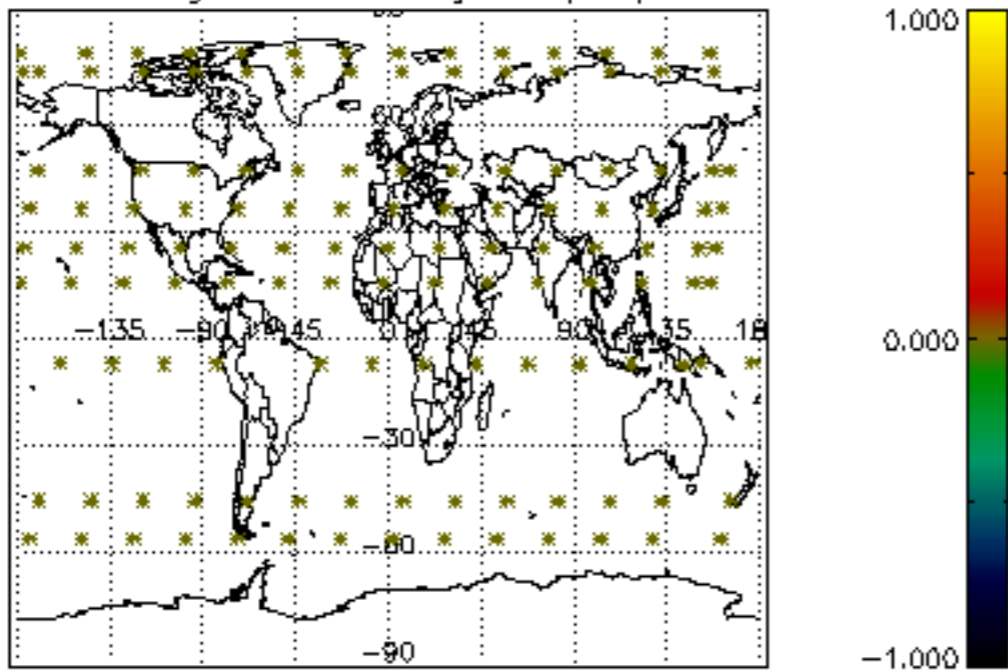
Percentage of star falling outside central band per profile



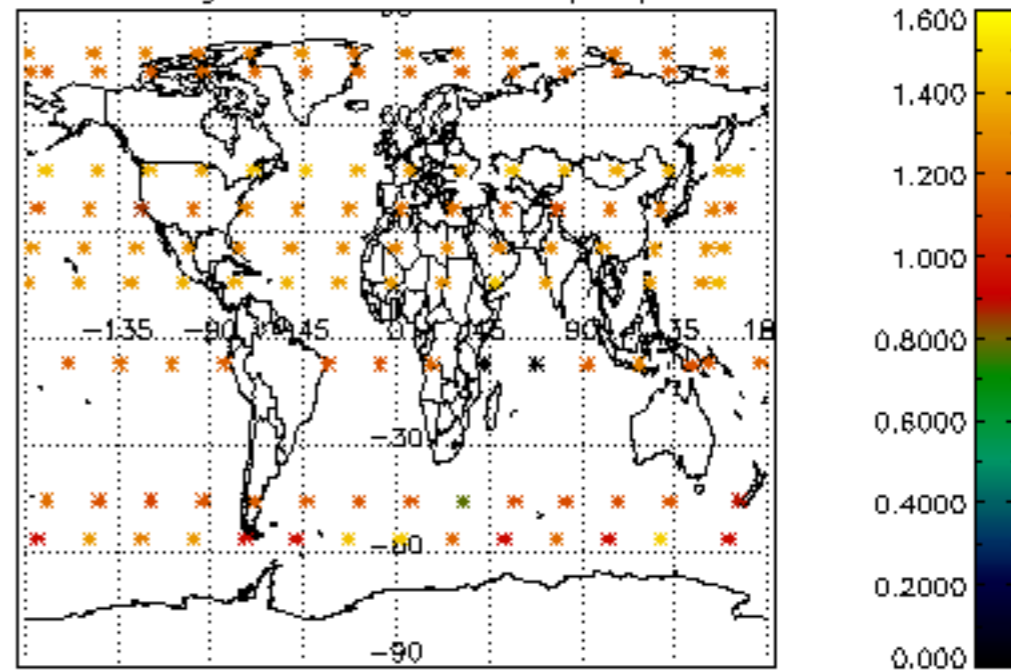
Percentage of saturation errors per profile



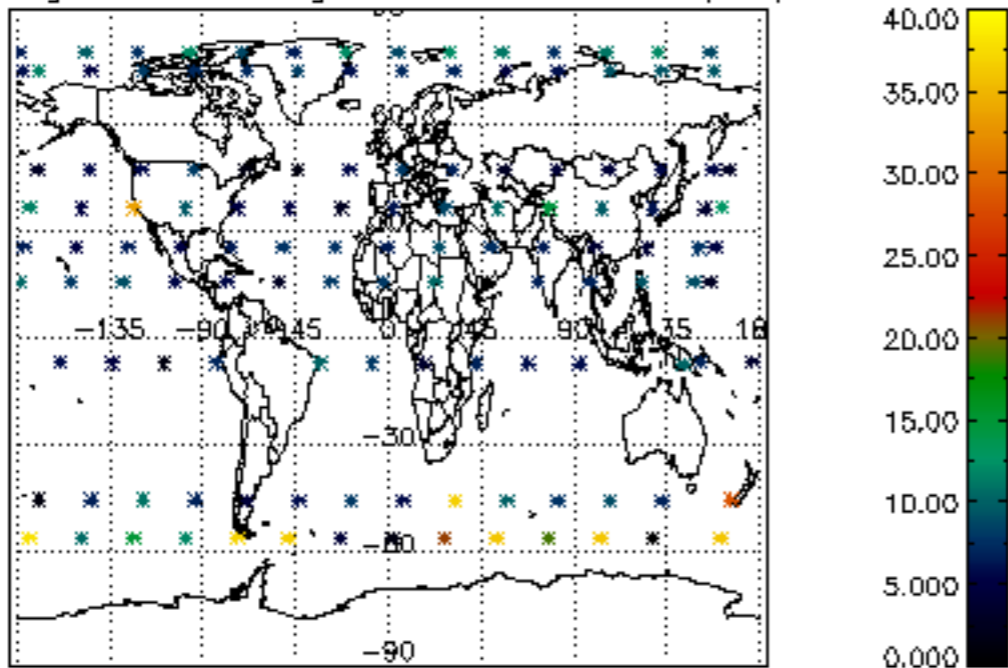
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

