

GOMOS Level 2 Daily Report

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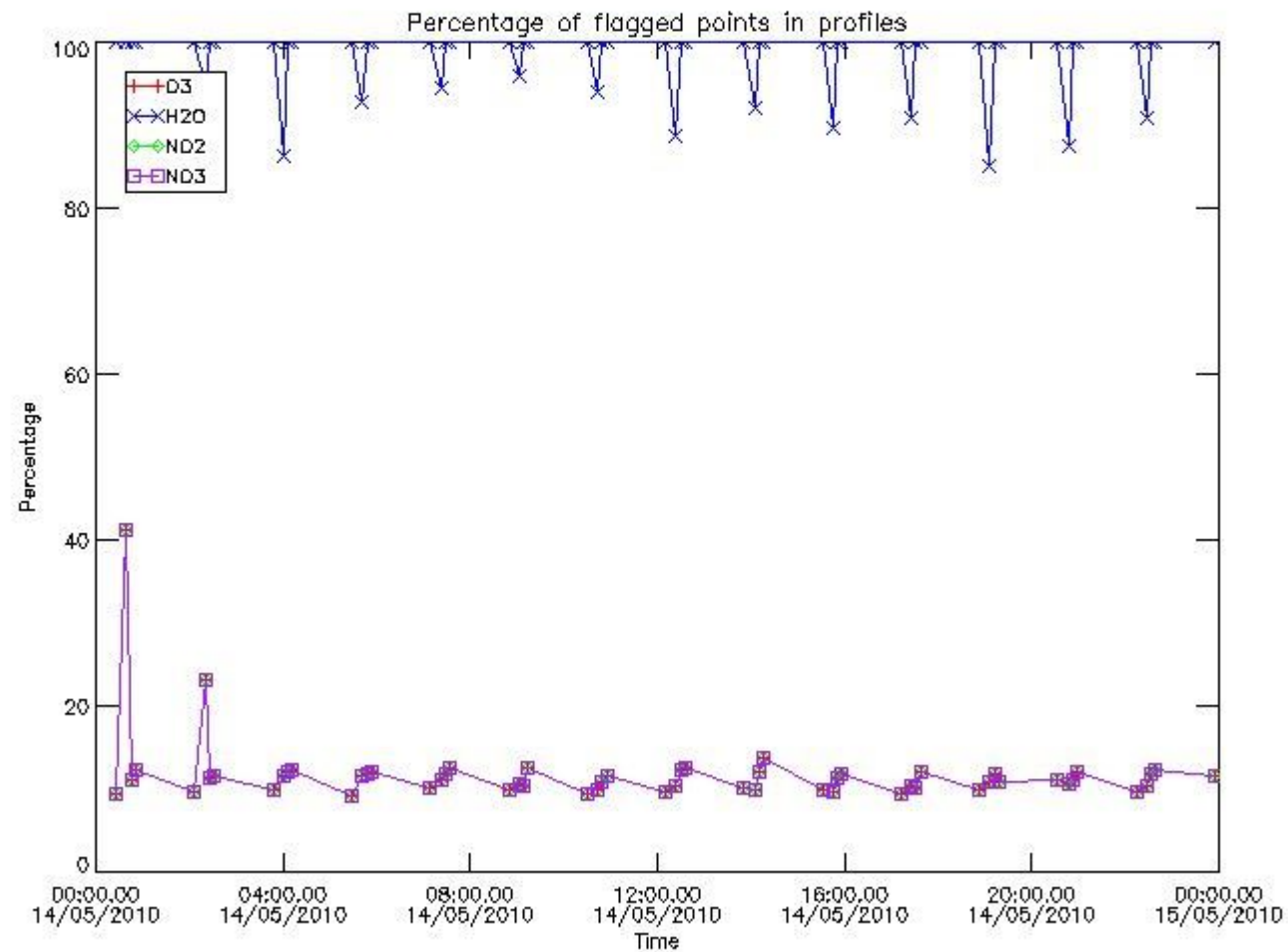
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279	GOM_NL__2PRFIN20100514_225305_000000542089_00259_42898_9704.N1	14-MAY-2010 22:53:05	Twilight	53.500	75	26Eps Sco	2.2910	4250.0	107	42898	No
280	GOM_NL__2PRFIN20100514_225614_000000592089_00259_42898_9705.N1	14-MAY-2010 22:56:14	Twilight	58.500	16	21Alp Sco	1.0200	3000.0	117	42898	No
281	GOM_NL__2PRFIN20100514_225853_000000452089_00259_42898_9706.N1	14-MAY-2010 22:58:53	Bright	44.500	97	8Bet1Sco	2.5610	30000.	89	42898	No
282	GOM_NL__2PRFIN20100514_230236_000000402089_00259_42898_9707.N1	14-MAY-2010 23:02:36	Bright	39.500	104	27Bet Lib	2.6140	13100.	79	42898	No
283	GOM_NL__2PRFIN20100514_230450_000000512089_00259_42898_9708.N1	14-MAY-2010 23:04:50	Bright	51.000	120	1Del Oph	2.7340	3200.0	102	42898	No
284	GOM_NL__2PRFIN20100514_230801_000000462089_00259_42898_9709.N1	14-MAY-2010 23:08:01	Bright	45.500	102	24Alp Ser	2.6000	4250.0	91	42898	No
285	GOM_NL__2PRFIN20100514_231335_000000422089_00259_42898_9710.N1	14-MAY-2010 23:13:35	Bright	41.500	83		2.3780	11000.	83	42898	No
286	GOM_NL__2PRFIN20100514_231643_000000382089_00259_42898_9711.N1	14-MAY-2010 23:16:43	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	42898	No
287	GOM_NL__2PRFIN20100514_232530_000000422089_00259_42898_9712.N1	14-MAY-2010 23:25:30	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	42898	No
288	GOM_NL__2PRFIN20100514_233625_000000442089_00259_42898_9713.N1	14-MAY-2010 23:36:25	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	42898	No
289	GOM_NL__2PRFIN20100514_233951_000000372089_00259_42898_9714.N1	14-MAY-2010 23:39:51	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	42898	No
290	GOM_NL__2PRFIN20100514_235004_000000572089_00259_42898_9715.N1	14-MAY-2010 23:50:04	Twilight	57.000	93	53Bet Peg	2.5200	3100.0	114	42898	No
291	GOM_NL__2PRFIN20100514_235308_000000432089_00259_42898_9716.N1	14-MAY-2010 23:53:08	Twilight	42.500	140	88Gam Peg	2.8340	26000.	85	42898	No
292	GOM_NL__2PRFIN20100514_235442_000000532089_00259_42898_9717.N1	14-MAY-2010 23:54:42	Dark	52.500	90	54Alp Peg	2.4870	11000.	105	42898	No

3. Quality information per product

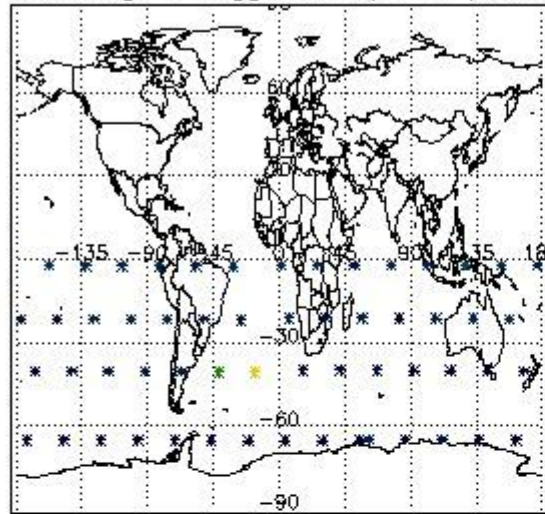
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

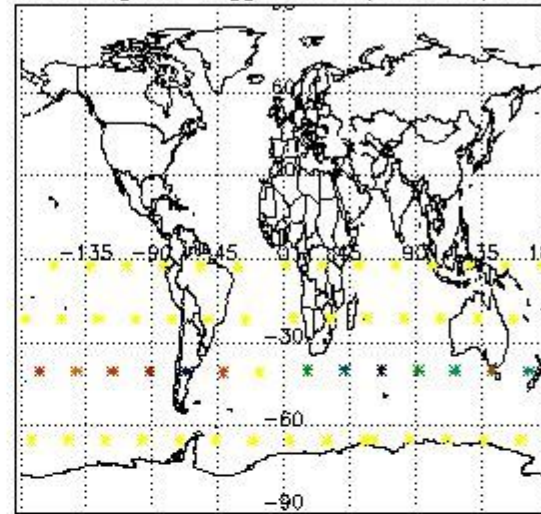


3.2 Plot quality information per product (world map)

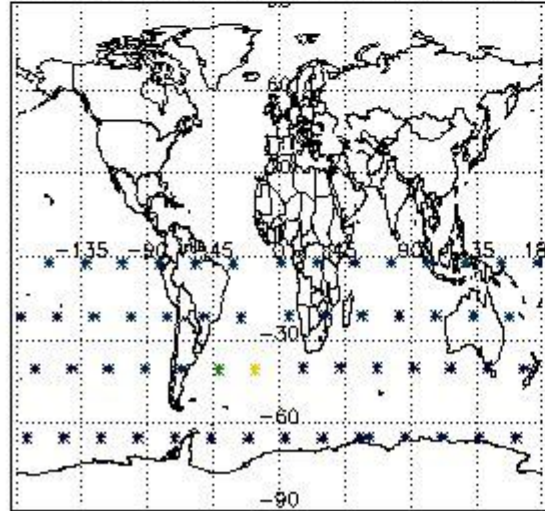
Percentage of flagged data per O3 profile



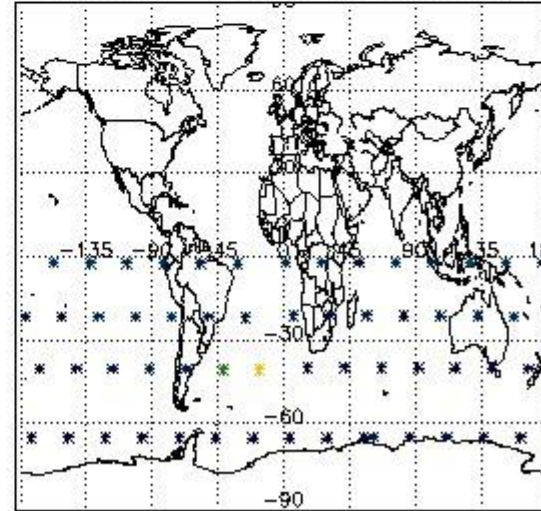
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

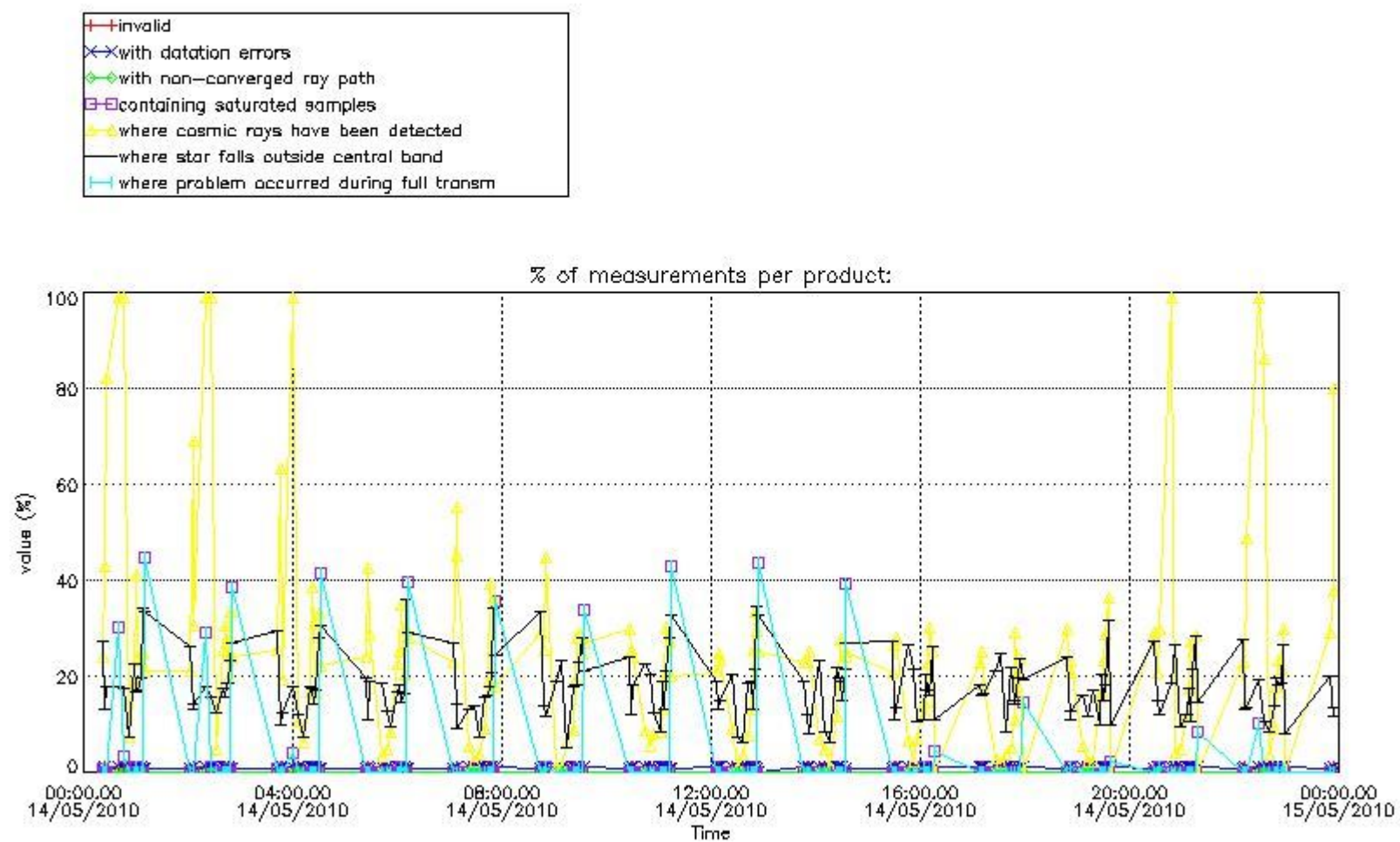


4. Level 1 quality information per product

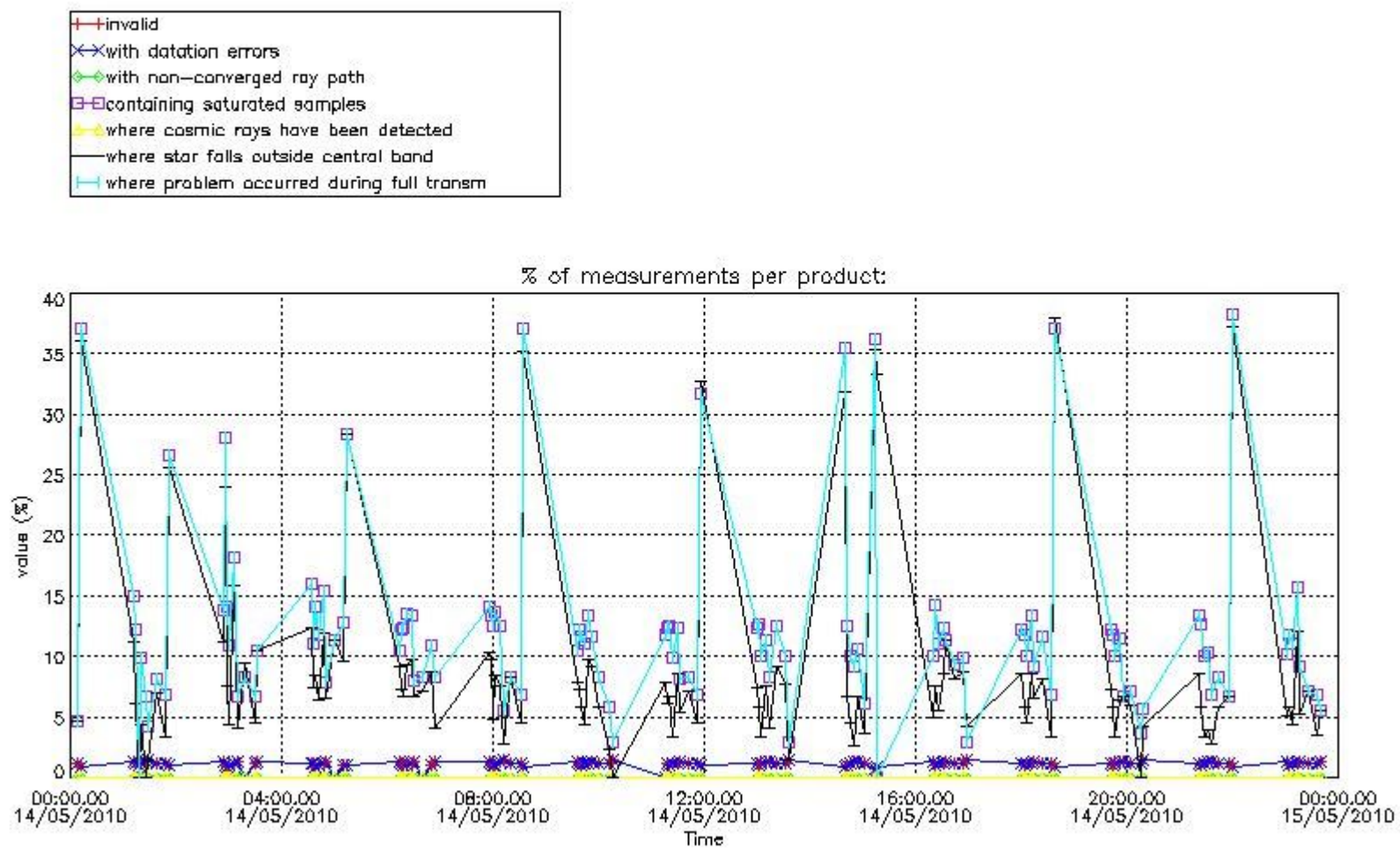
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

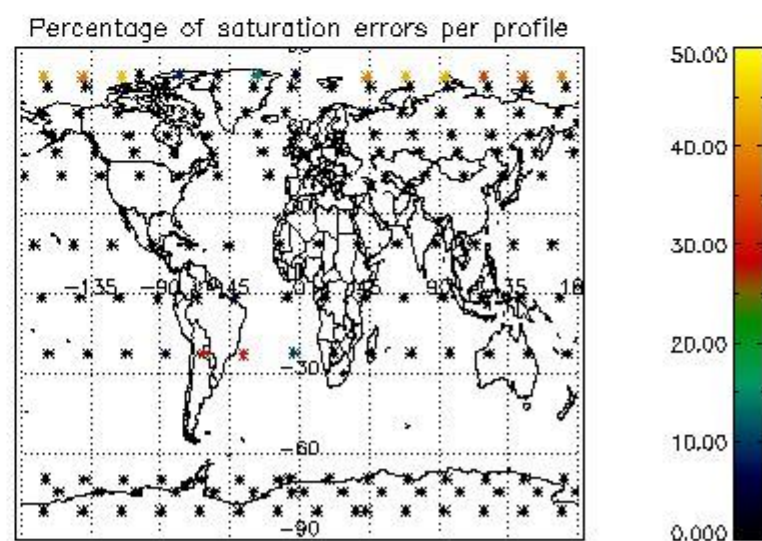
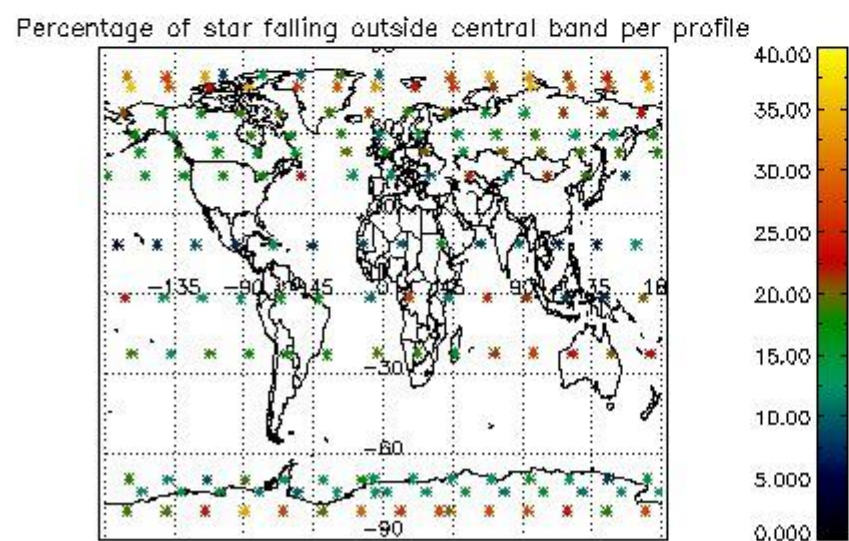
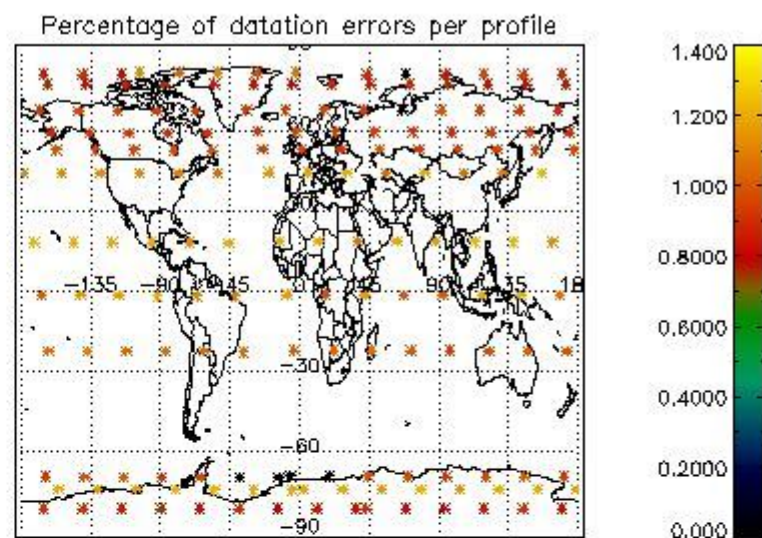
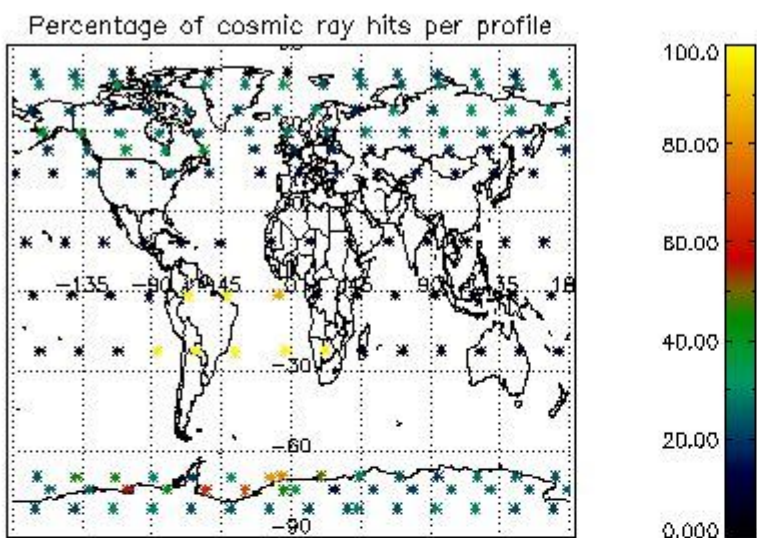


4.1.2 Plot level 1 quality information per product (time dependant): ENVI-SAT DESCENDING passes

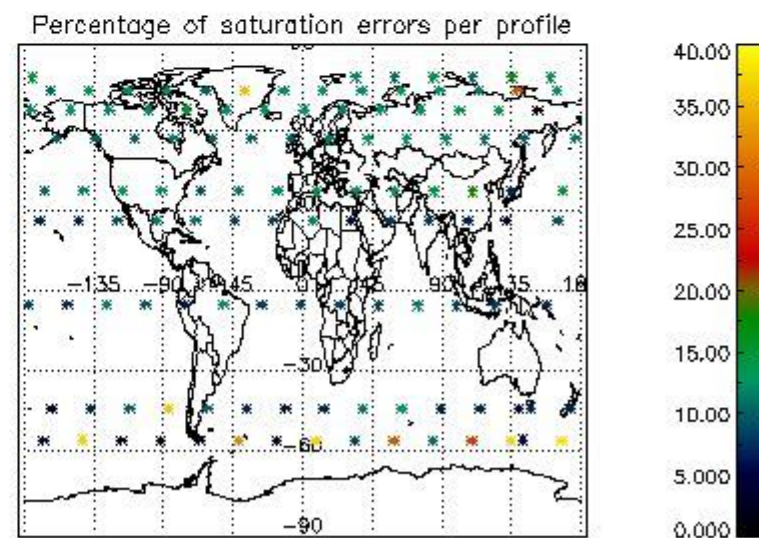
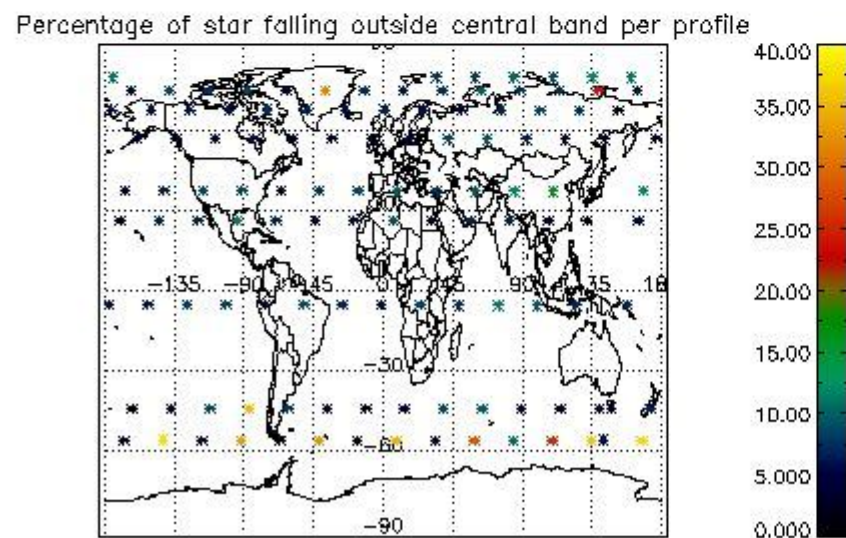
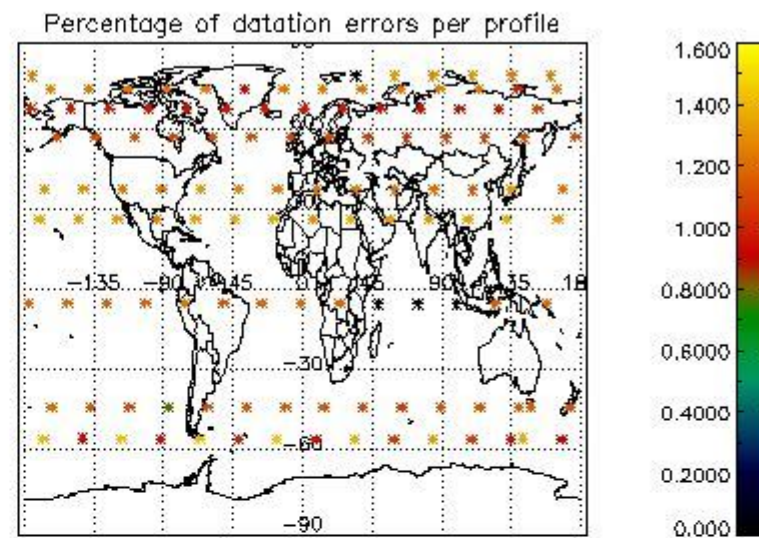
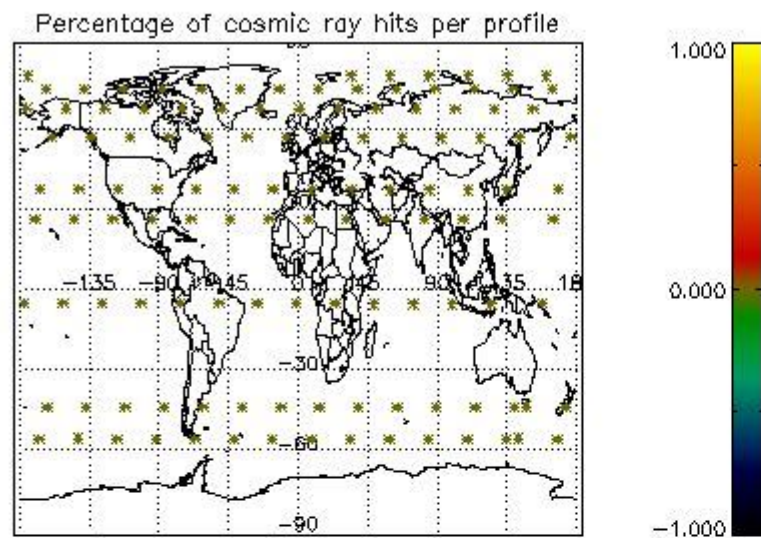


4.2 Plot quality information per product coming from level 1b processing (world map)

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

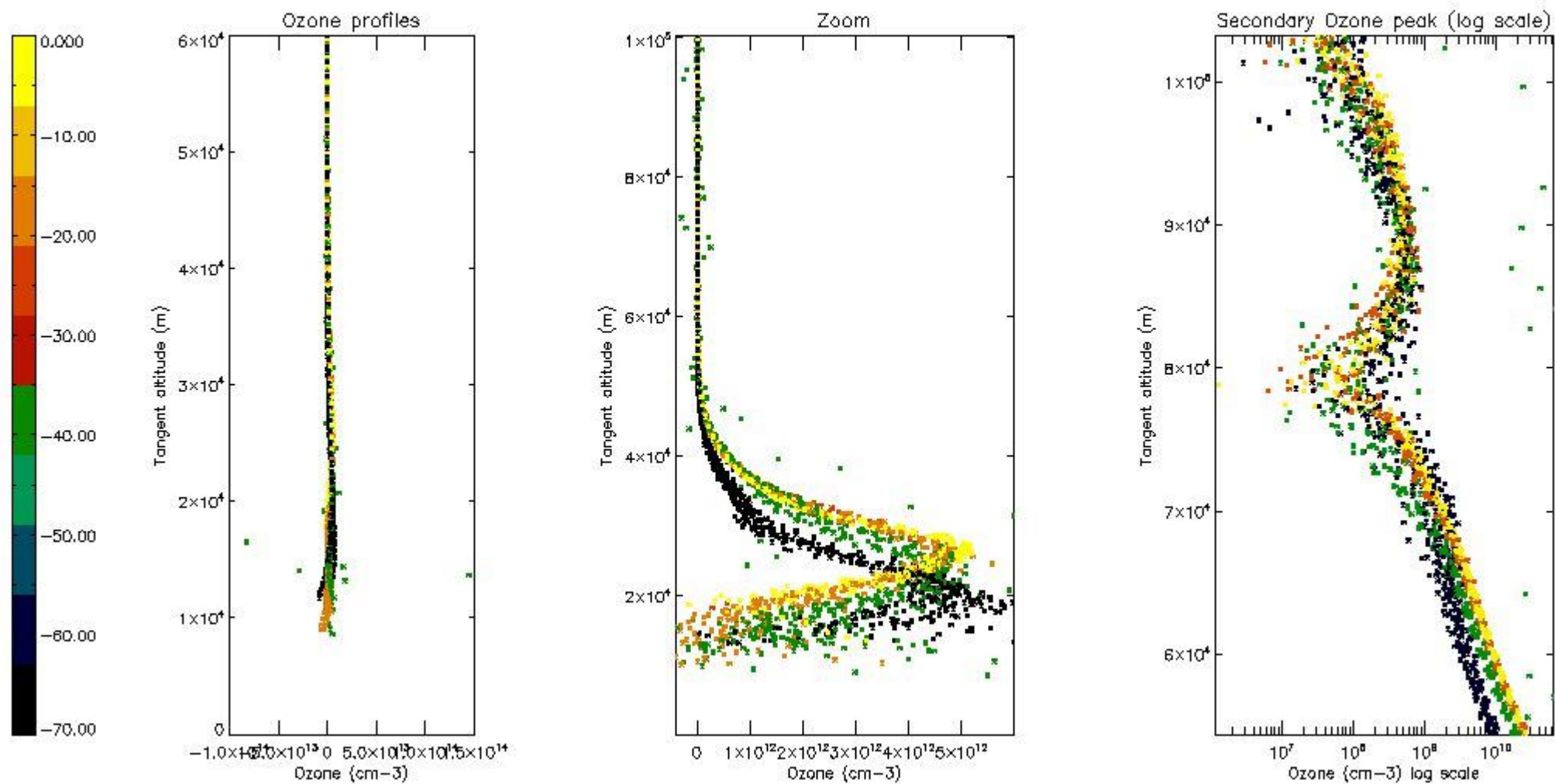
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	10
STD < 5	6

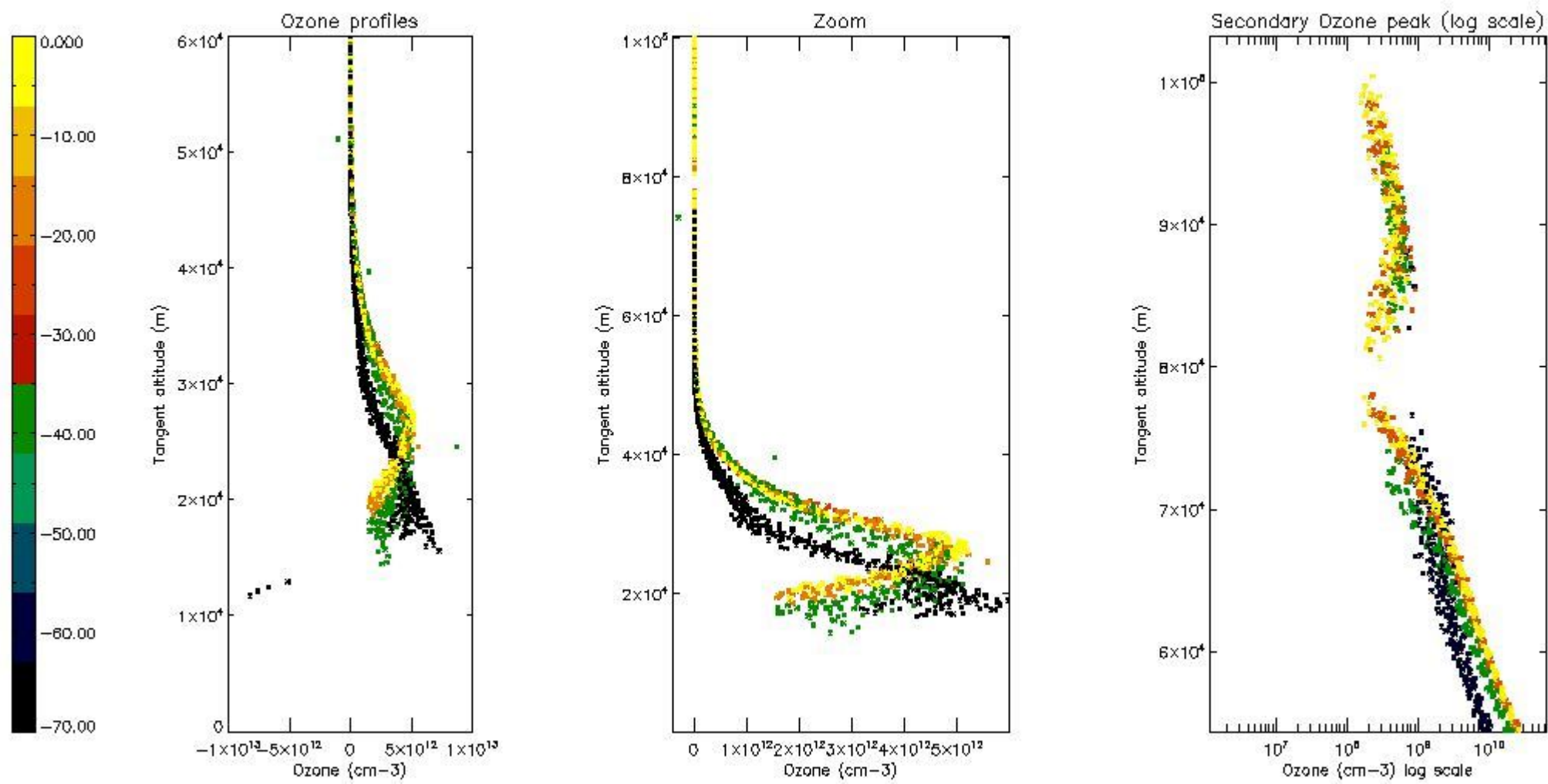
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



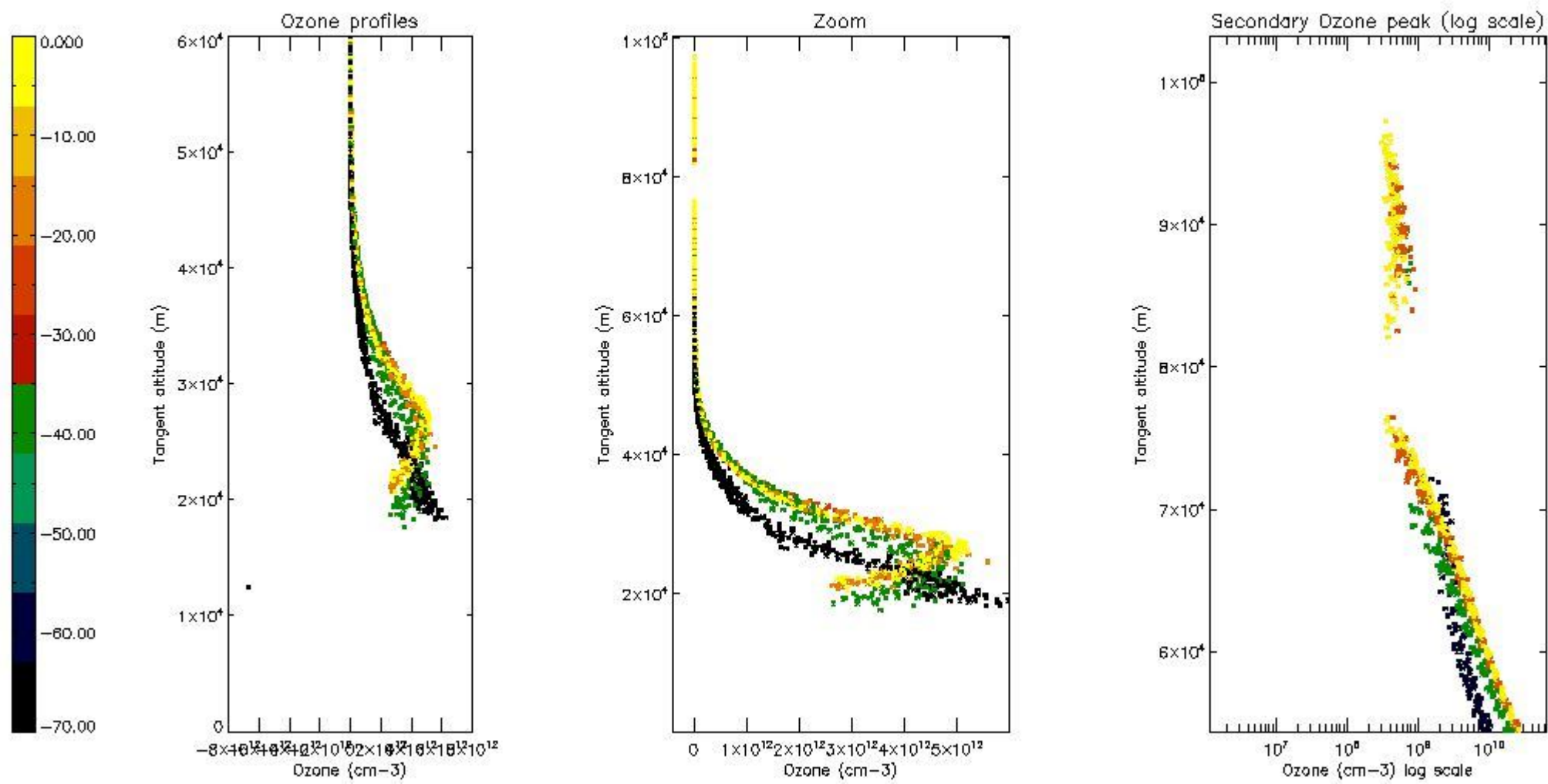
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



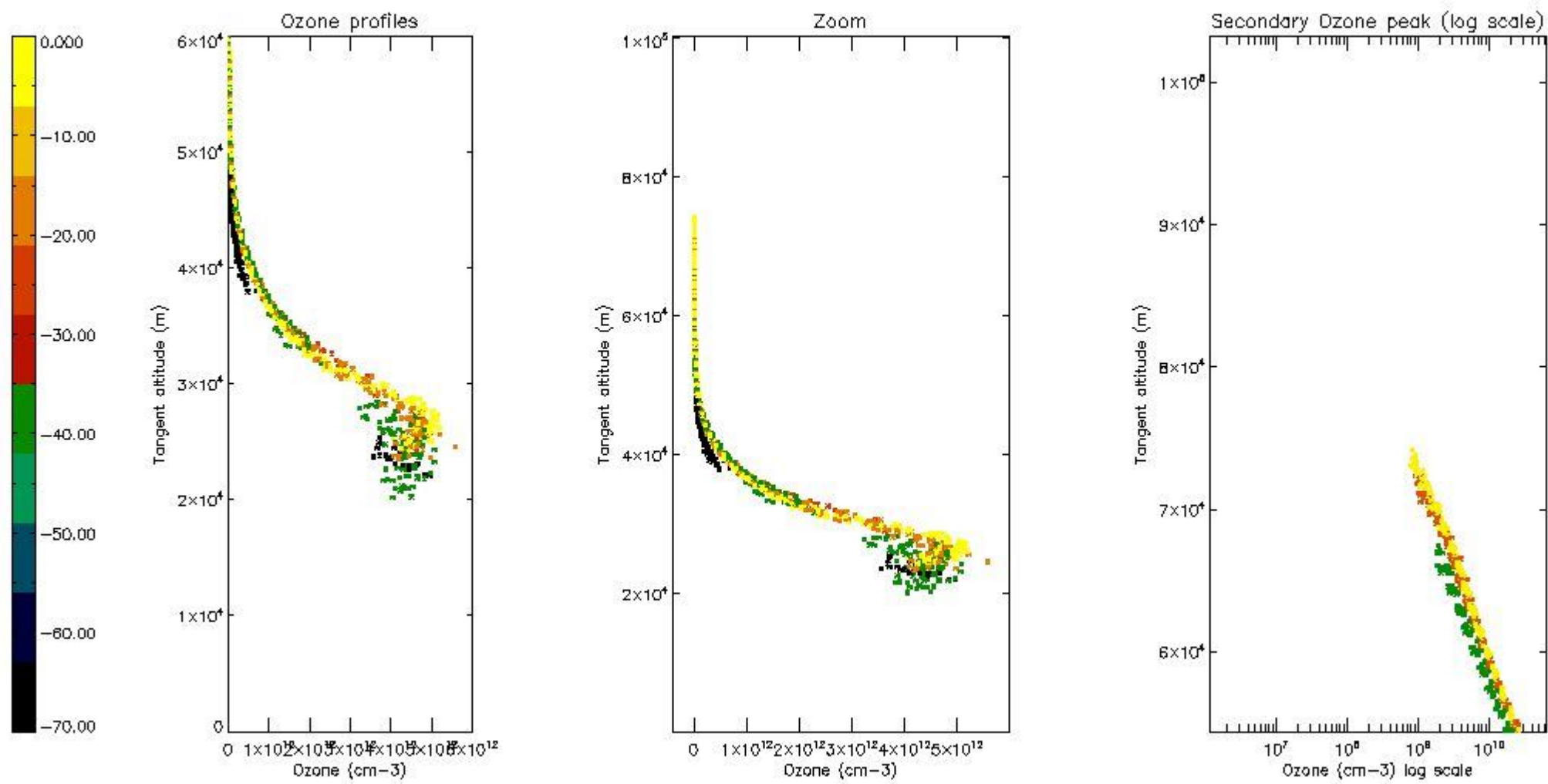
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



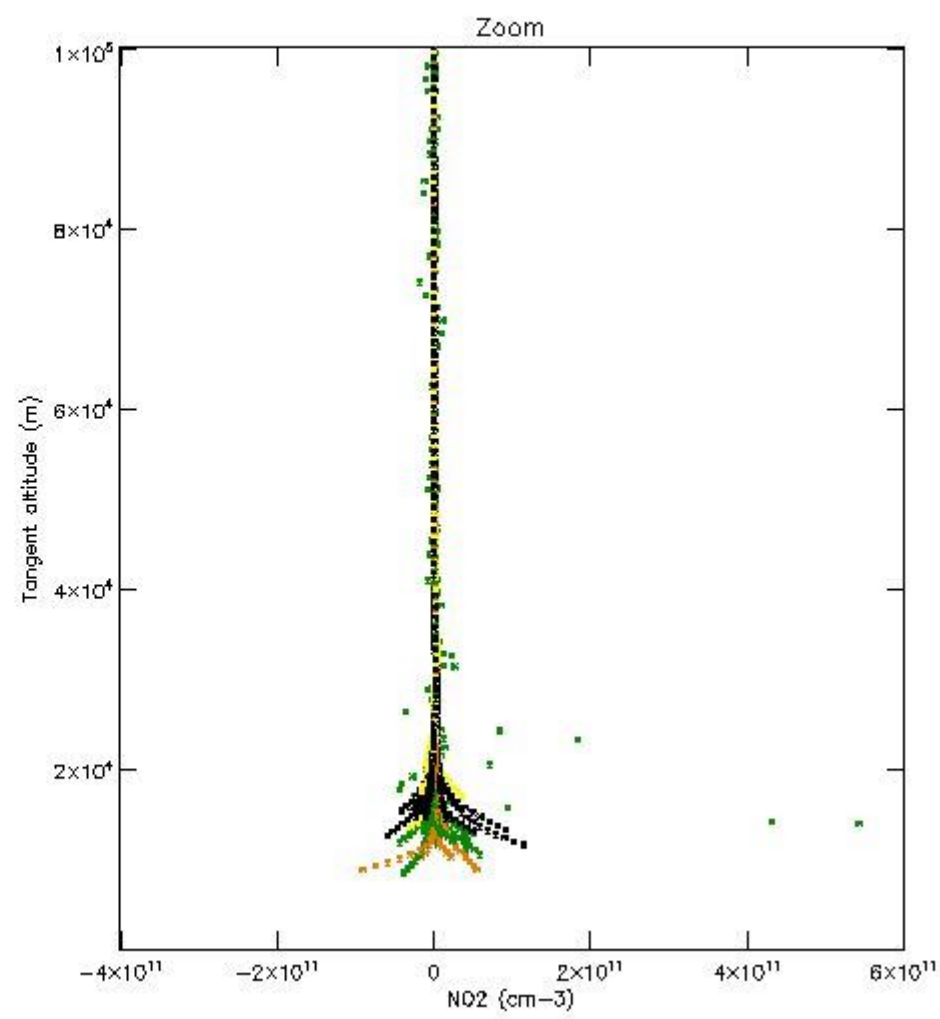
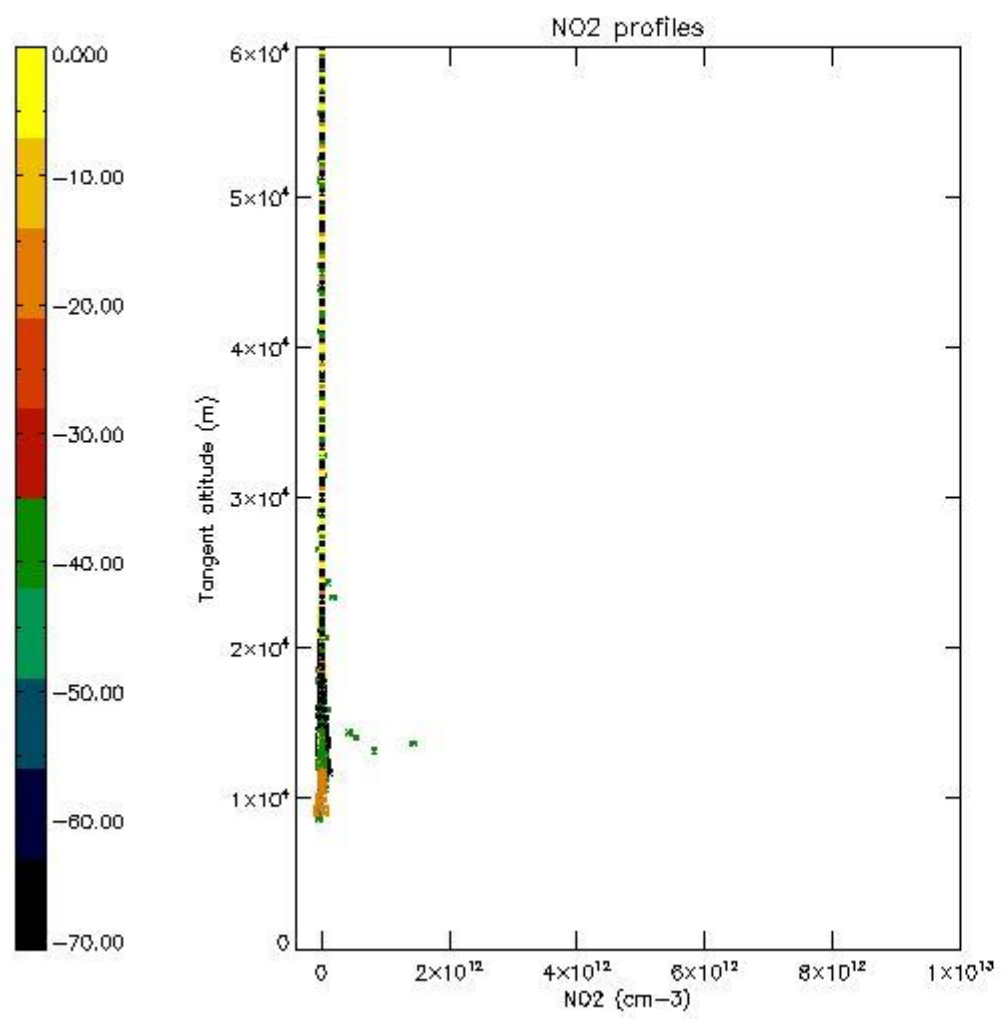
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



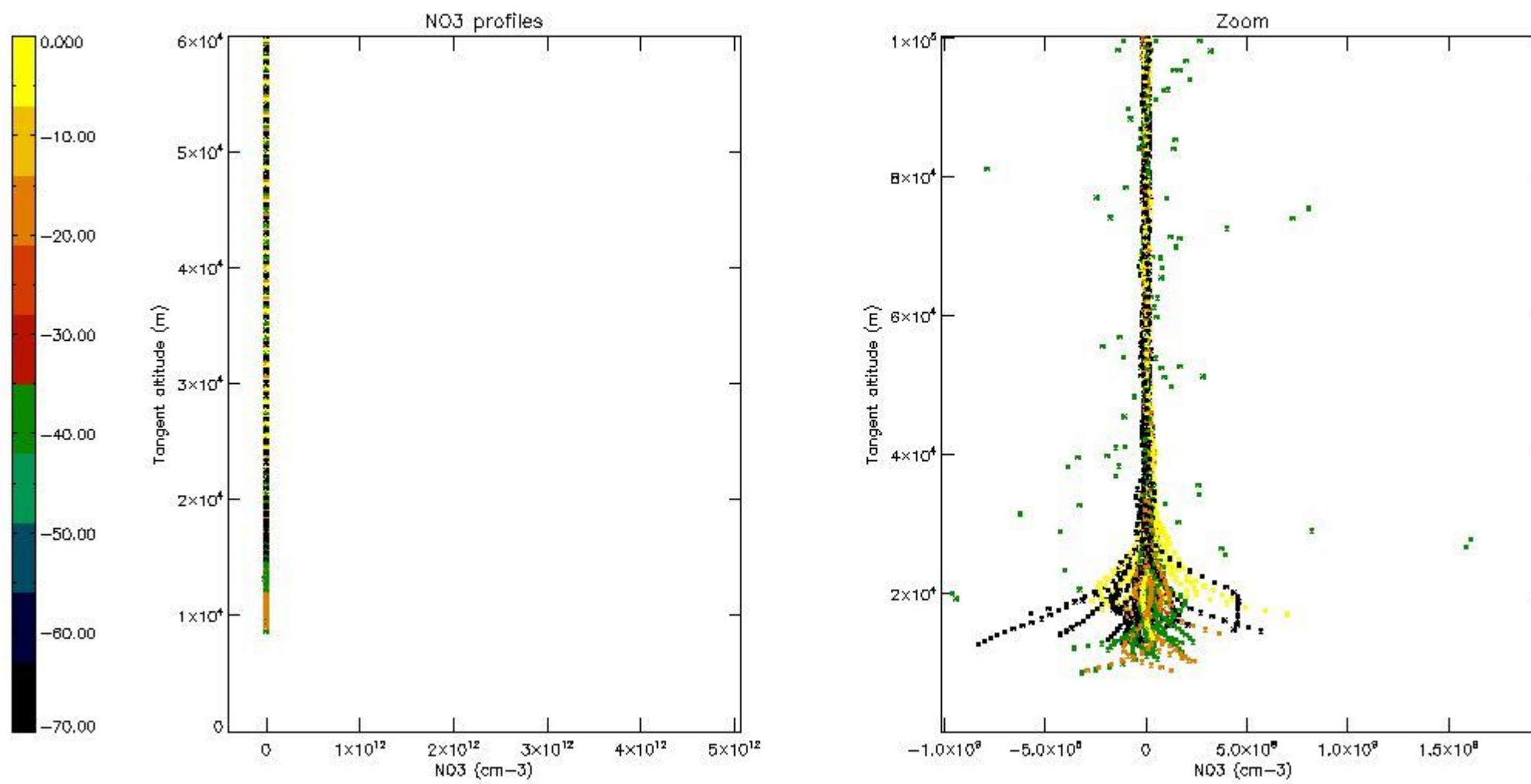
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



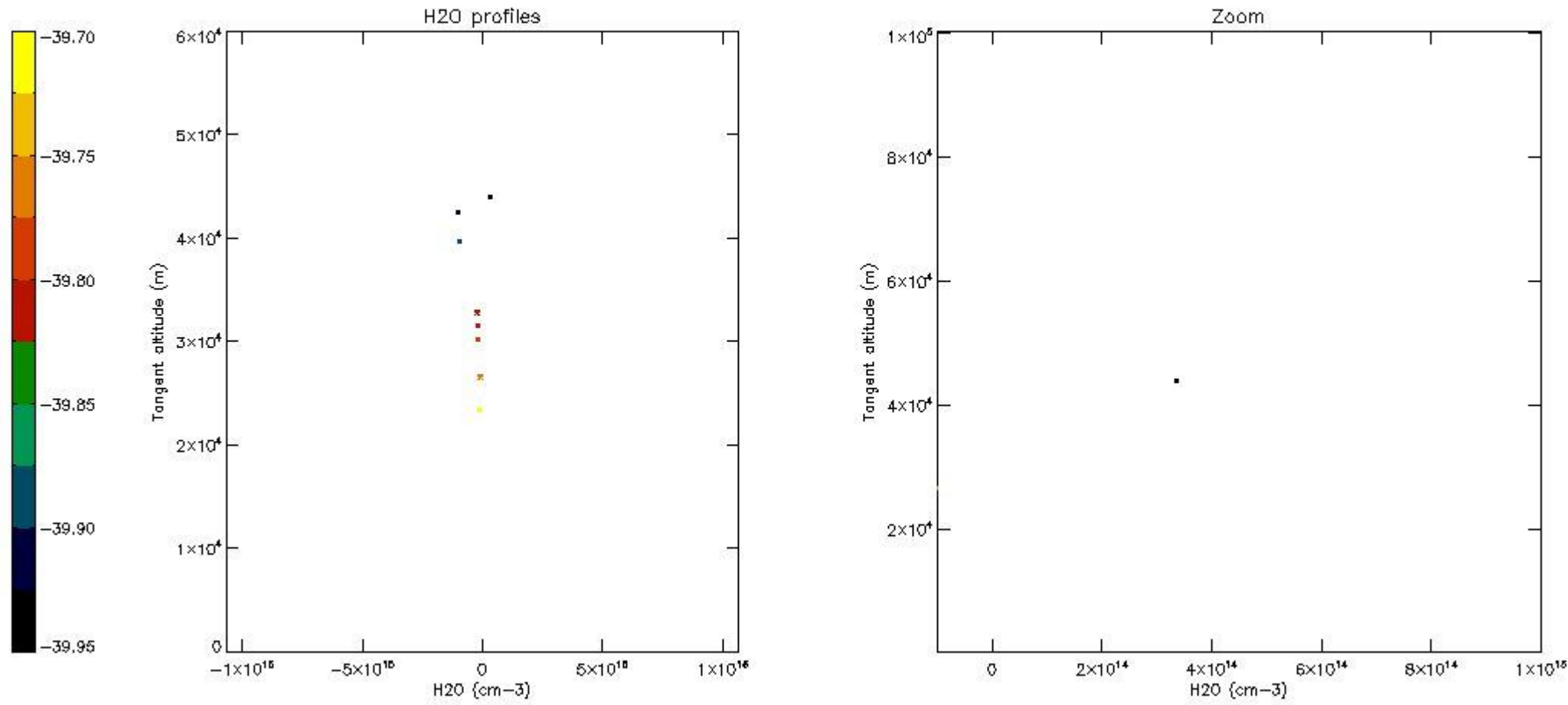
5.7 Plot NO3 profiles for all STD (dark without errors)

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	14-MAY-2010 00:08:08
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-MAY-2010 00:08:08
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-MAY-2010 00:08:08

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

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

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

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

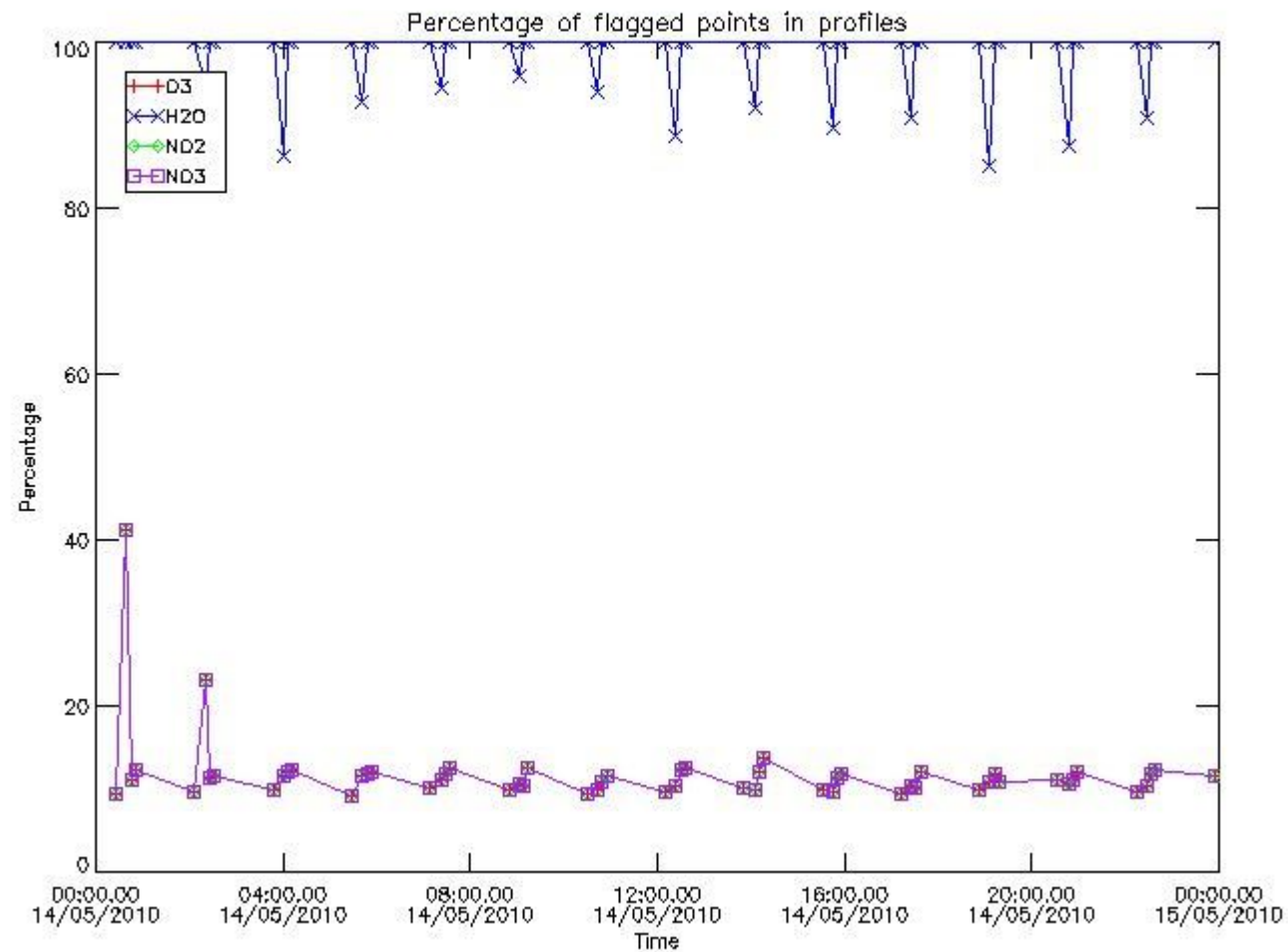
220	GOM_NL__2PRFIN20100514_175425_000000572089_00256_42895_9613.N1	14-MAY-2010 17:54:25	Twilight	57.000	16	21Alp Sco	1.0200	3000.0	114	42895	No
221	GOM_NL__2PRFIN20100514_175705_000000522089_00256_42895_9614.N1	14-MAY-2010 17:57:05	Bright	52.000	97	8Bet1Sco	2.5610	30000.	104	42895	No
222	GOM_NL__2PRFIN20100514_180048_000000412089_00256_42895_9615.N1	14-MAY-2010 18:00:48	Bright	41.000	104	27Bet Lib	2.6140	13100.	82	42895	No
223	GOM_NL__2PRFIN20100514_180303_000000512089_00256_42895_9616.N1	14-MAY-2010 18:03:03	Bright	51.000	120	1Del Oph	2.7340	3200.0	102	42895	No
224	GOM_NL__2PRFIN20100514_180615_000000452089_00256_42895_9617.N1	14-MAY-2010 18:06:15	Bright	45.000	102	24Alp Ser	2.6000	4250.0	90	42895	No
225	GOM_NL__2PRFIN20100514_181148_000000412089_00256_42895_9618.N1	14-MAY-2010 18:11:48	Bright	41.000	83		2.3780	11000.	82	42895	No
226	GOM_NL__2PRFIN20100514_181456_000000382089_00256_42895_9619.N1	14-MAY-2010 18:14:56	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	42895	No
227	GOM_NL__2PRFIN20100514_182343_000000432089_00256_42895_9620.N1	14-MAY-2010 18:23:43	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	42895	No
228	GOM_NL__2PRFIN20100514_183439_000000442089_00256_42895_9621.N1	14-MAY-2010 18:34:39	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	42895	No
229	GOM_NL__2PRFIN20100514_183804_000000542089_00256_42895_9622.N1	14-MAY-2010 18:38:04	Bright	54.000	74	11Bet Cas	2.2680	6600.0	108	42895	No
230	GOM_NL__2PRFIN20100514_184816_000000592089_00256_42895_9623.N1	14-MAY-2010 18:48:16	Twilight	58.500	93	53Bet Peg	2.5200	3100.0	117	42895	No
231	GOM_NL__2PRFIN20100514_185119_000000412089_00256_42895_9624.N1	14-MAY-2010 18:51:19	Twilight	41.000	140	88Gam Peg	2.8340	26000.	82	42895	No
232	GOM_NL__2PRFIN20100514_185253_000000522089_00256_42895_9625.N1	14-MAY-2010 18:52:53	Dark	51.500	90	54Alp Peg	2.4870	11000.	103	42895	No
233	GOM_NL__2PRFIN20100514_190625_000000472089_00256_42895_9626.N1	14-MAY-2010 19:06:25	Dark	47.000	18	24Alp PsA	1.1660	9700.0	94	42895	No
234	GOM_NL__2PRFIN20100514_191216_000000432089_00256_42895_9627.N1	14-MAY-2010 19:12:16	Dark	43.000	31	Alp Gru	1.7340	15200.	86	42895	No
235	GOM_NL__2PRFIN20100514_191750_000000472089_00257_42896_9630.N1	14-MAY-2010 19:17:50	Dark	46.500	45	Alp Pav	1.9400	26000.	93	42896	No
236	GOM_NL__2PRFIN20100514_192505_000000422089_00257_42896_9631.N1	14-MAY-2010 19:25:05	Straylight	41.500	141	Bet Ara	2.8400	4600.0	83	42896	No
237	GOM_NL__2PRFIN20100514_192736_000000542089_00257_42896_9632.N1	14-MAY-2010 19:27:36	Straylight	54.000	40	The Sco	1.8590	7100.0	108	42896	No
238	GOM_NL__2PRFIN20100514_192928_000000542089_00257_42896_9633.N1	14-MAY-2010 19:29:28	Straylight	54.000	25	35Lam Sco	1.6200	28000.	108	42896	No
239	GOM_NL__2PRFIN20100514_193153_000000522089_00257_42896_9634.N1	14-MAY-2010 19:31:53	Straylight	52.000	75	26Eps Sco	2.2910	4250.0	104	42896	No
240	GOM_NL__2PRFIN20100514_193501_000000642089_00257_42896_9635.N1	14-MAY-2010 19:35:01	Twilight	63.500	16	21Alp Sco	1.0200	3000.0	127	42896	No
241	GOM_NL__2PRFIN20100514_193741_000000462089_00257_42896_9636.N1	14-MAY-2010 19:37:41	Bright	45.500	97	8Bet1Sco	2.5610	30000.	91	42896	No
242	GOM_NL__2PRFIN20100514_194124_000000412089_00257_42896_9637.N1	14-MAY-2010 19:41:24	Bright	41.000	104	27Bet Lib	2.6140	13100.	82	42896	No
243	GOM_NL__2PRFIN20100514_194338_000000512089_00257_42896_9638.N1	14-MAY-2010 19:43:38	Bright	51.000	120	1Del Oph	2.7340	3200.0	102	42896	No
244	GOM_NL__2PRFIN20100514_194650_000000452089_00257_42896_9639.N1	14-MAY-2010 19:46:50	Bright	45.000	102	24Alp Ser	2.6000	4250.0	90	42896	No
245	GOM_NL__2PRFIN20100514_195224_000000392089_00257_42896_9640.N1	14-MAY-2010 19:52:24	Bright	39.000	83		2.3780	11000.	78	42896	No
246	GOM_NL__2PRFIN20100514_195532_000000382089_00257_42896_9641.N1	14-MAY-2010 19:55:32	Bright	37.500	180	27Gam Boo	3.0400	8000.0	75	42896	No
247	GOM_NL__2PRFIN20100514_200419_000000422089_00257_42896_9642.N1	14-MAY-2010 20:04:19	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	42896	No
248	GOM_NL__2PRFIN20100514_201515_000000422089_00257_42896_9643.N1	14-MAY-2010 20:15:15	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	42896	No
249	GOM_NL__2PRFIN20100514_201840_000000362089_00257_42896_9644.N1	14-MAY-2010 20:18:40	Bright	35.500	74	11Bet Cas	2.2680	6600.0	71	42896	No
250	GOM_NL__2PRFIN20100514_202852_000000622089_00257_42896_9645.N1	14-MAY-2010 20:28:52	Twilight	62.000	93	53Bet Peg	2.5200	3100.0	124	42896	No
251	GOM_NL__2PRFIN20100514_203155_000000442089_00257_42896_9646.N1	14-MAY-2010 20:31:55	Twilight	43.500	140	88Gam Peg	2.8340	26000.	87	42896	No
252	GOM_NL__2PRFIN20100514_203329_000000512089_00257_42896_9647.N1	14-MAY-2010 20:33:29	Dark	50.500	90	54Alp Peg	2.4870	11000.	101	42896	No
253	GOM_NL__2PRFIN20100514_204702_000000492089_00257_42896_9648.N1	14-MAY-2010 20:47:02	Dark	48.500	18	24Alp PsA	1.1660	9700.0	97	42896	No
254	GOM_NL__2PRFIN20100514_205253_000000512089_00257_42896_9649.N1	14-MAY-2010 20:52:53	Dark	51.000	31	Alp Gru	1.7340	15200.	102	42896	No
255	GOM_NL__2PRFIN20100514_205827_000000422089_00258_42897_9650.N1	14-MAY-2010 20:58:27	Dark	42.000	45	Alp Pav	1.9400	26000.	84	42897	No
256	GOM_NL__2PRFIN20100514_210542_000000422089_00258_42897_9651.N1	14-MAY-2010 21:05:42	Straylight	42.000	141	Bet Ara	2.8400	4600.0	84	42897	No
257	GOM_NL__2PRFIN20100514_210813_000000522089_00258_42897_9652.N1	14-MAY-2010 21:08:13	Straylight	52.000	40	The Sco	1.8590	7100.0	104	42897	No
258	GOM_NL__2PRFIN20100514_211005_000000522089_00258_42897_9653.N1	14-MAY-2010 21:10:05	Straylight	51.500	25	35Lam Sco	1.6200	28000.	103	42897	No
259	GOM_NL__2PRFIN20100514_211229_000000542089_00258_42897_9654.N1	14-MAY-2010 21:12:29	Twilight	54.000	75	26Eps Sco	2.2910	4250.0	108	42897	No
260	GOM_NL__2PRFIN20100514_211538_000000602089_00258_42897_9655.N1	14-MAY-2010 21:15:38	Twilight	60.000	16	21Alp Sco	1.0200	3000.0	120	42897	No
261	GOM_NL__2PRFIN20100514_211817_000000492089_00258_42897_9656.N1	14-MAY-2010 21:18:17	Bright	48.500	97	8Bet1Sco	2.5610	30000.	97	42897	No
262	GOM_NL__2PRFIN20100514_212200_000000412089_00258_42897_9657.N1	14-MAY-2010 21:22:00	Bright	41.000	104	27Bet Lib	2.6140	13100.	82	42897	No
263	GOM_NL__2PRFIN20100514_212414_000000522089_00258_42897_9658.N1	14-MAY-2010 21:24:14	Bright	51.500	120	1Del Oph	2.7340	3200.0	103	42897	No
264	GOM_NL__2PRFIN20100514_212726_000000452089_00258_42897_9659.N1	14-MAY-2010 21:27:26	Bright	45.000	102	24Alp Ser	2.6000	4250.0	90	42897	No
265	GOM_NL__2PRFIN20100514_213259_000000392089_00258_42897_9660.N1	14-MAY-2010 21:32:59	Bright	38.500	83		2.3780	11000.	77	42897	No
266	GOM_NL__2PRFIN20100514_213607_000000372089_00258_42897_9661.N1	14-MAY-2010 21:36:07	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	42897	No
267	GOM_NL__2PRFIN20100514_214454_000000432089_00258_42897_9662.N1	14-MAY-2010 21:44:54	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	42897	No
268	GOM_NL__2PRFIN20100514_215550_000000452089_00258_42897_9663.N1	14-MAY-2010 21:55:50	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	42897	No
269	GOM_NL__2PRFIN20100514_215916_000000552089_00258_42897_9664.N1	14-MAY-2010 21:59:16	Bright	55.000	74	11Bet Cas	2.2680	6600.0	110	42897	No
270	GOM_NL__2PRFIN20100514_220928_000000622089_00258_42897_9665.N1	14-MAY-2010 22:09:28	Twilight	61.500	93	53Bet Peg	2.5200	3100.0	123	42897	No
271	GOM_NL__2PRFIN20100514_221232_000000422089_00258_42897_9666.N1	14-MAY-2010 22:12:32	Twilight	42.000	140	88Gam Peg	2.8340	26000.	84	42897	No
272	GOM_NL__2PRFIN20100514_221405_000000532089_00258_42897_9667.N1	14-MAY-2010 22:14:05	Dark	52.500	90	54Alp Peg	2.4870	11000.	105	42897	No
273	GOM_NL__2PRFIN20100514_222738_000000502089_00258_42897_9668.N1	14-MAY-2010 22:27:38	Dark	49.500	18	24Alp PsA	1.1660	9700.0	99	42897	No
274	GOM_NL__2PRFIN20100514_223329_000000432089_00258_42897_9669.N1	14-MAY-2010 22:33:29	Dark	43.000	31	Alp Gru	1.7340	15200.	86	42897	No
275	GOM_NL__2PRFIN20100514_223903_000000422089_00259_42898_9700.N1	14-MAY-2010 22:39:03	Dark	41.500	45	Alp Pav	1.9400	26000.	83	42898	No
276	GOM_NL__2PRFIN20100514_224618_000000442089_00259_42898_9701.N1	14-MAY-2010 22:46:18	Straylight	43.500	141	Bet Ara	2.8400	4600.0	87	42898	No
277	GOM_NL__2PRFIN20100514_224849_000000532089_00259_42898_9702.N1	14-MAY-2010 22:48:49	Straylight	53.000	40	The Sco	1.8590	7100.0	106	42898	No
278	GOM_NL__2PRFIN20100514_225042_000000562089_00259_42898_9703.N1	14-MAY-2010 22:50:42	Straylight	55.500	25	35Lam Sco	1.6200	28000.	111	42898	No

279	GOM_NL__2PRFIN20100514_225305_000000542089_00259_42898_9704.N1	14-MAY-2010 22:53:05	Twilight	53.500	75	26Eps Sco	2.2910	4250.0	107	42898	No
280	GOM_NL__2PRFIN20100514_225614_000000592089_00259_42898_9705.N1	14-MAY-2010 22:56:14	Twilight	58.500	16	21Alp Sco	1.0200	3000.0	117	42898	No
281	GOM_NL__2PRFIN20100514_225853_000000452089_00259_42898_9706.N1	14-MAY-2010 22:58:53	Bright	44.500	97	8Bet1Sco	2.5610	30000.	89	42898	No
282	GOM_NL__2PRFIN20100514_230236_000000402089_00259_42898_9707.N1	14-MAY-2010 23:02:36	Bright	39.500	104	27Bet Lib	2.6140	13100.	79	42898	No
283	GOM_NL__2PRFIN20100514_230450_000000512089_00259_42898_9708.N1	14-MAY-2010 23:04:50	Bright	51.000	120	1Del Oph	2.7340	3200.0	102	42898	No
284	GOM_NL__2PRFIN20100514_230801_000000462089_00259_42898_9709.N1	14-MAY-2010 23:08:01	Bright	45.500	102	24Alp Ser	2.6000	4250.0	91	42898	No
285	GOM_NL__2PRFIN20100514_231335_000000422089_00259_42898_9710.N1	14-MAY-2010 23:13:35	Bright	41.500	83		2.3780	11000.	83	42898	No
286	GOM_NL__2PRFIN20100514_231643_000000382089_00259_42898_9711.N1	14-MAY-2010 23:16:43	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	42898	No
287	GOM_NL__2PRFIN20100514_232530_000000422089_00259_42898_9712.N1	14-MAY-2010 23:25:30	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	42898	No
288	GOM_NL__2PRFIN20100514_233625_000000442089_00259_42898_9713.N1	14-MAY-2010 23:36:25	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	42898	No
289	GOM_NL__2PRFIN20100514_233951_000000372089_00259_42898_9714.N1	14-MAY-2010 23:39:51	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	42898	No
290	GOM_NL__2PRFIN20100514_235004_000000572089_00259_42898_9715.N1	14-MAY-2010 23:50:04	Twilight	57.000	93	53Bet Peg	2.5200	3100.0	114	42898	No
291	GOM_NL__2PRFIN20100514_235308_000000432089_00259_42898_9716.N1	14-MAY-2010 23:53:08	Twilight	42.500	140	88Gam Peg	2.8340	26000.	85	42898	No
292	GOM_NL__2PRFIN20100514_235442_000000532089_00259_42898_9717.N1	14-MAY-2010 23:54:42	Dark	52.500	90	54Alp Peg	2.4870	11000.	105	42898	No

3. Quality information per product

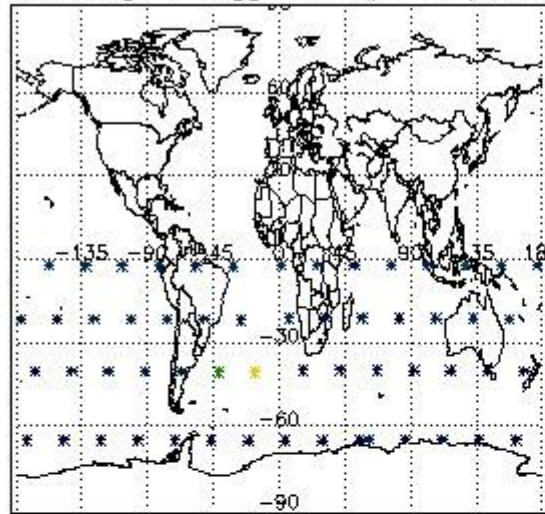
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

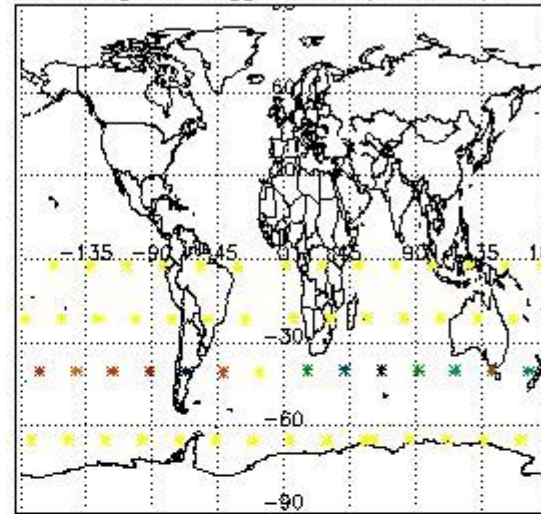


3.2 Plot quality information per product (world map)

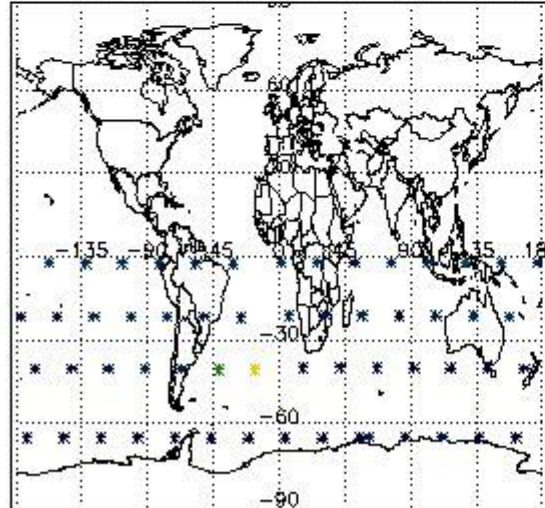
Percentage of flagged data per O3 profile



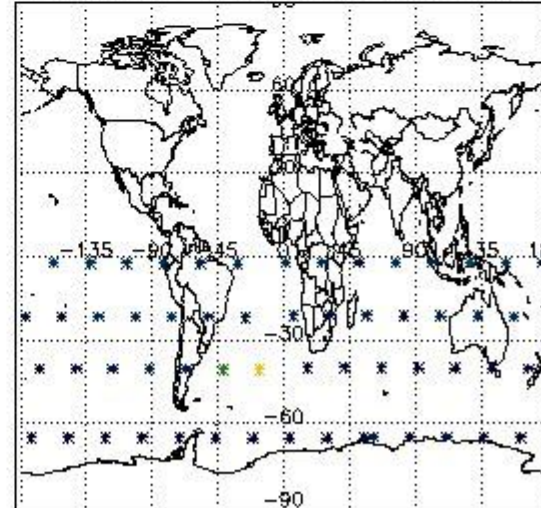
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

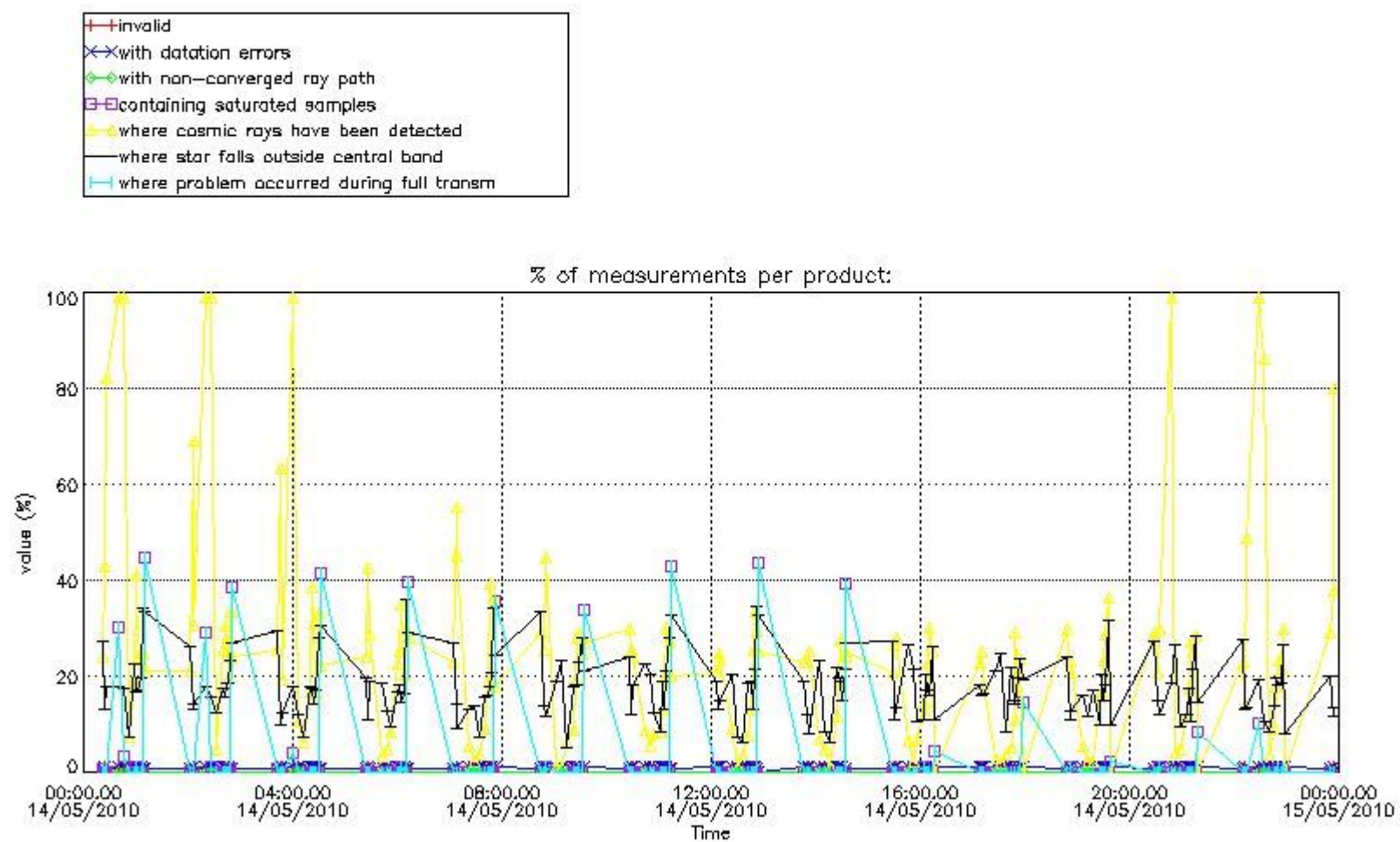


4. Level 1 quality information per product

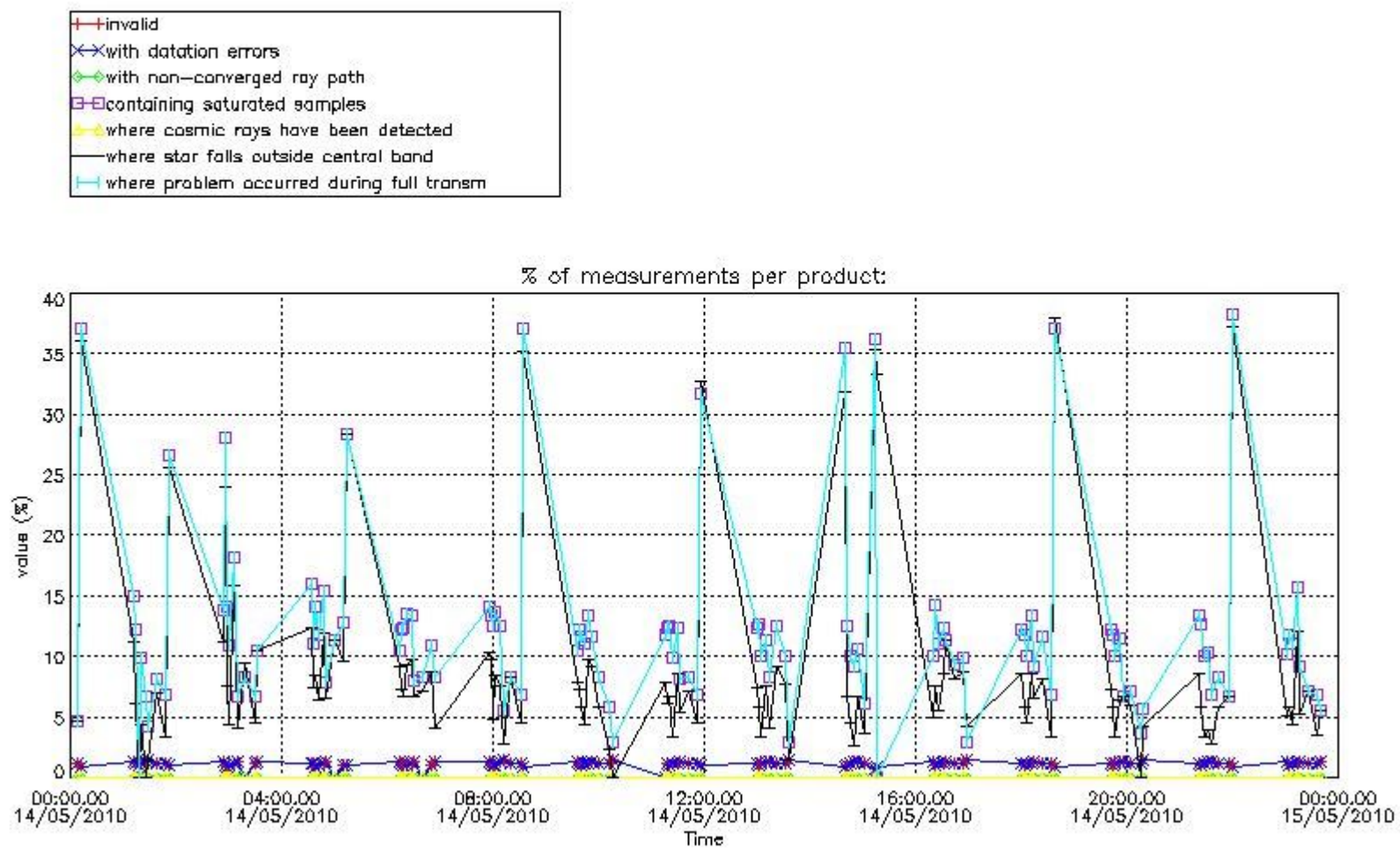
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

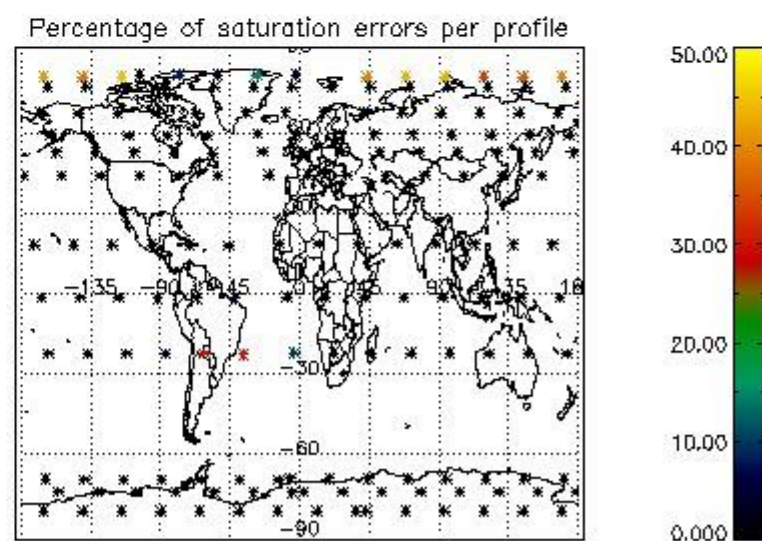
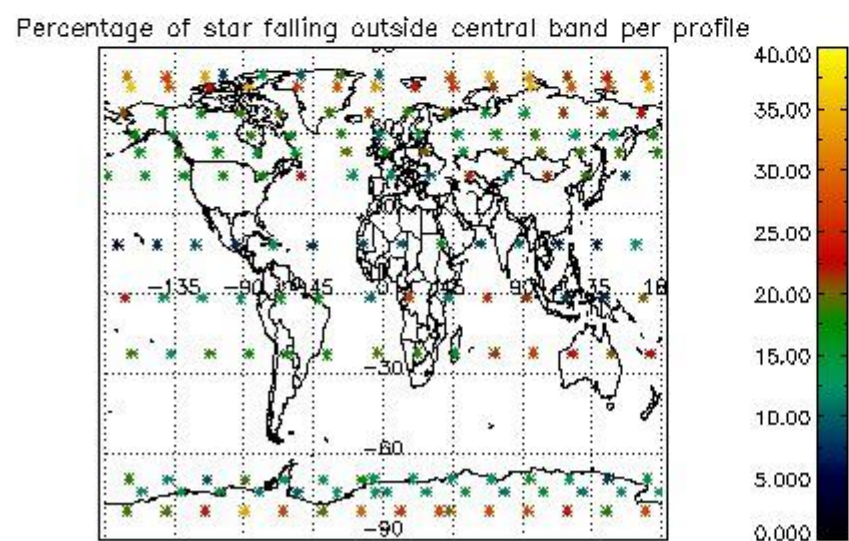
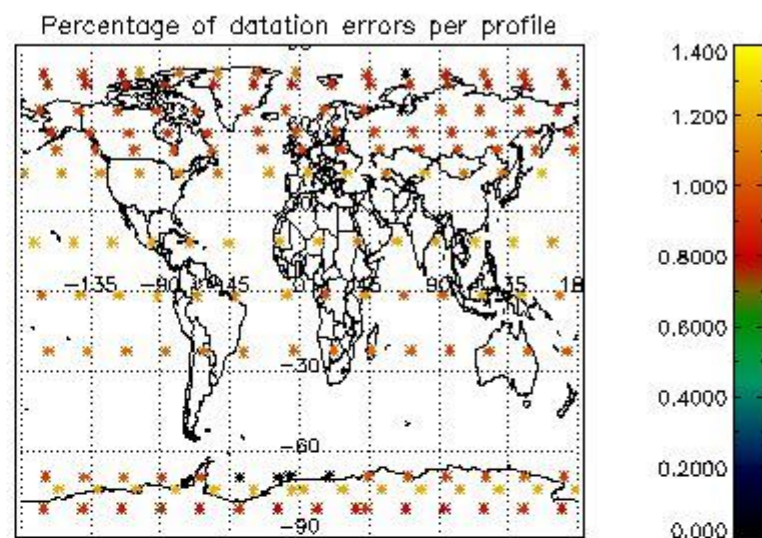
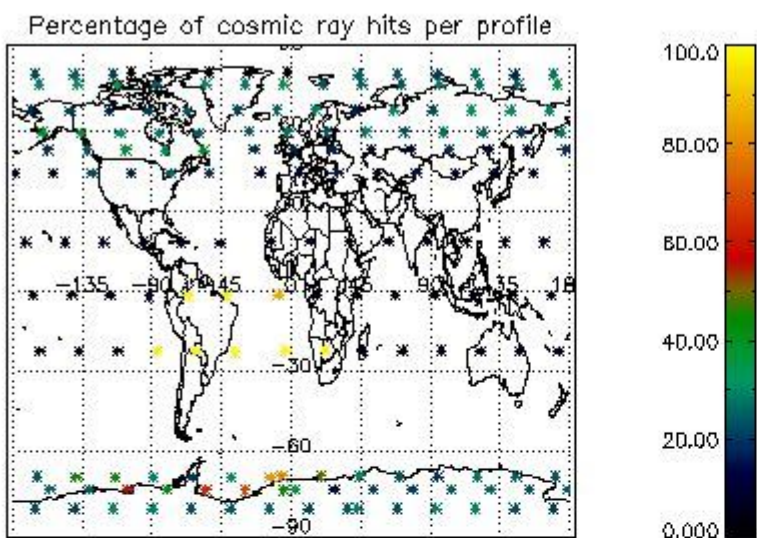


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

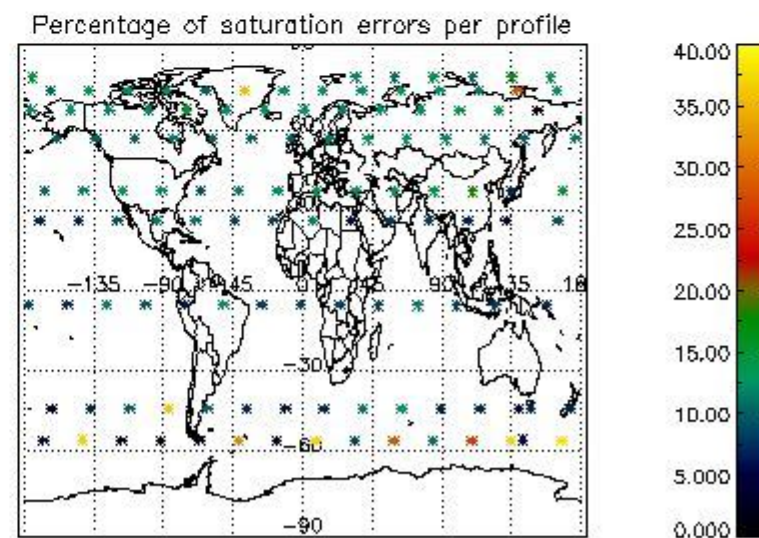
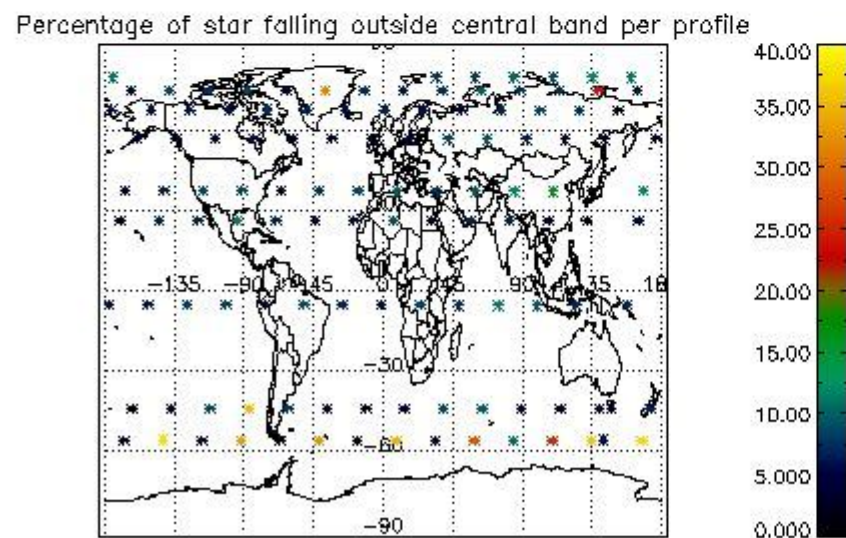
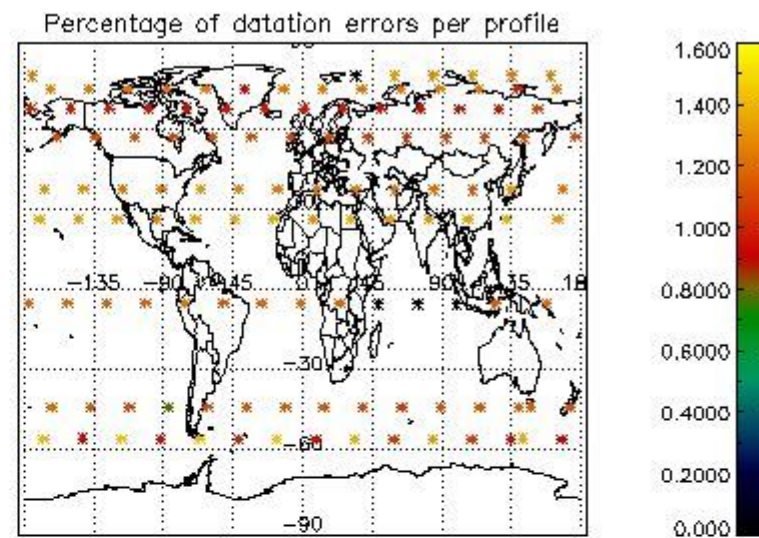
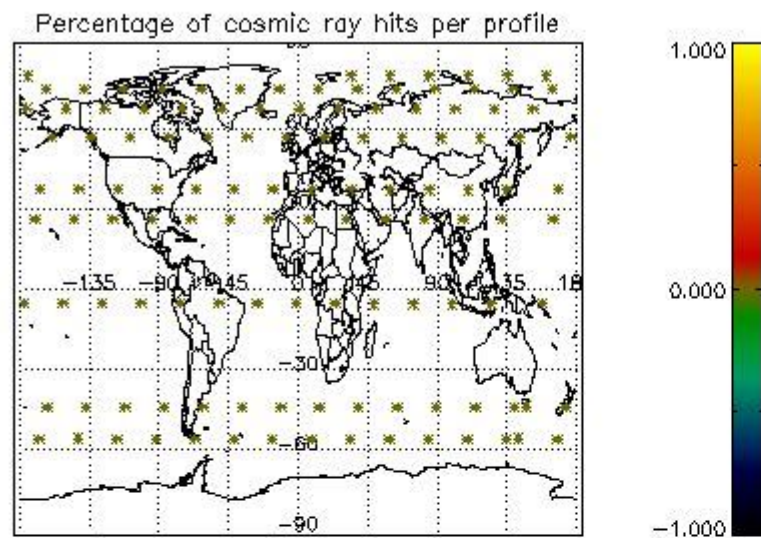


4.2 Plot quality information per product coming from level 1b processing (world map)

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

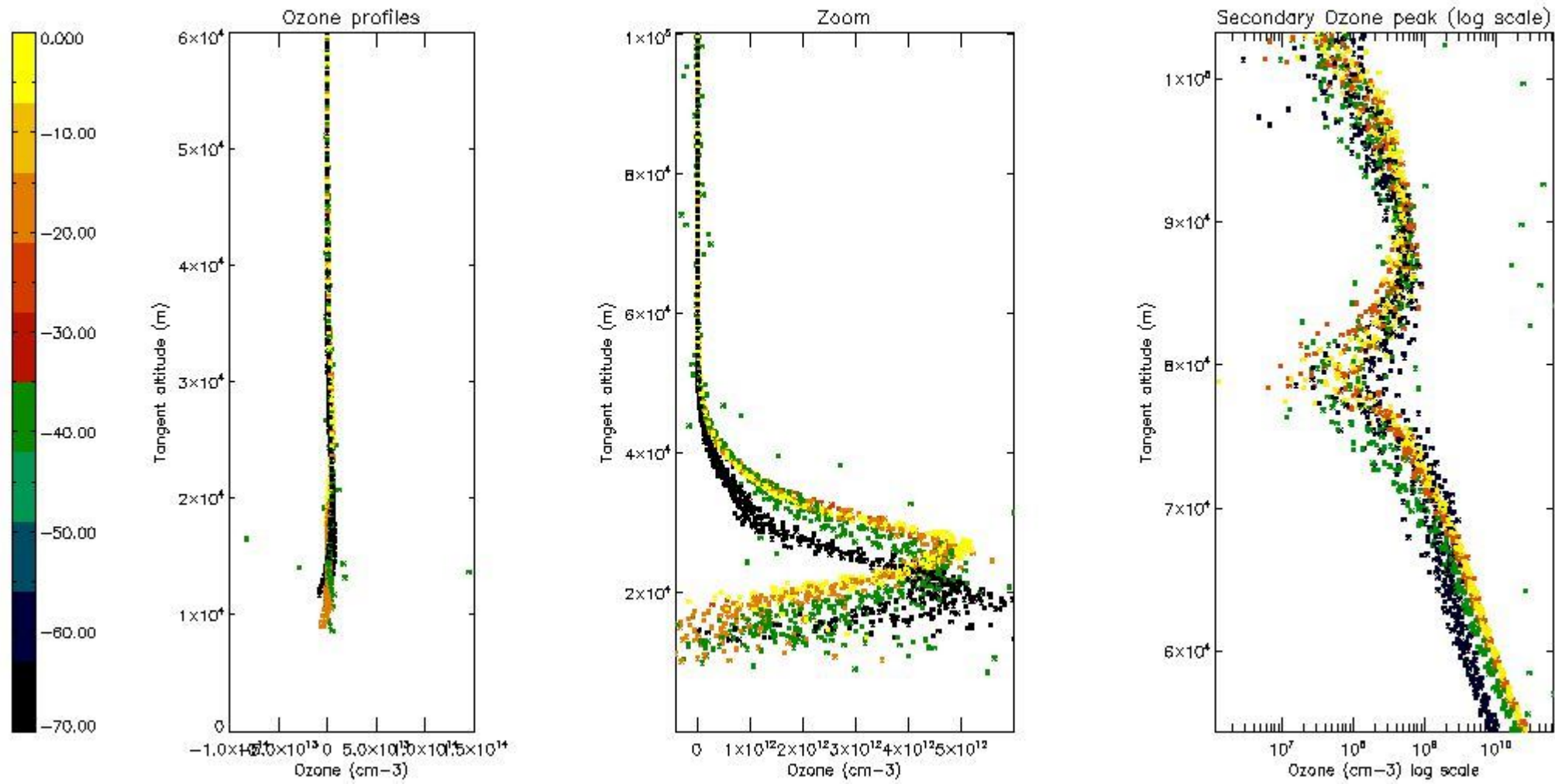
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	10
STD < 5	6

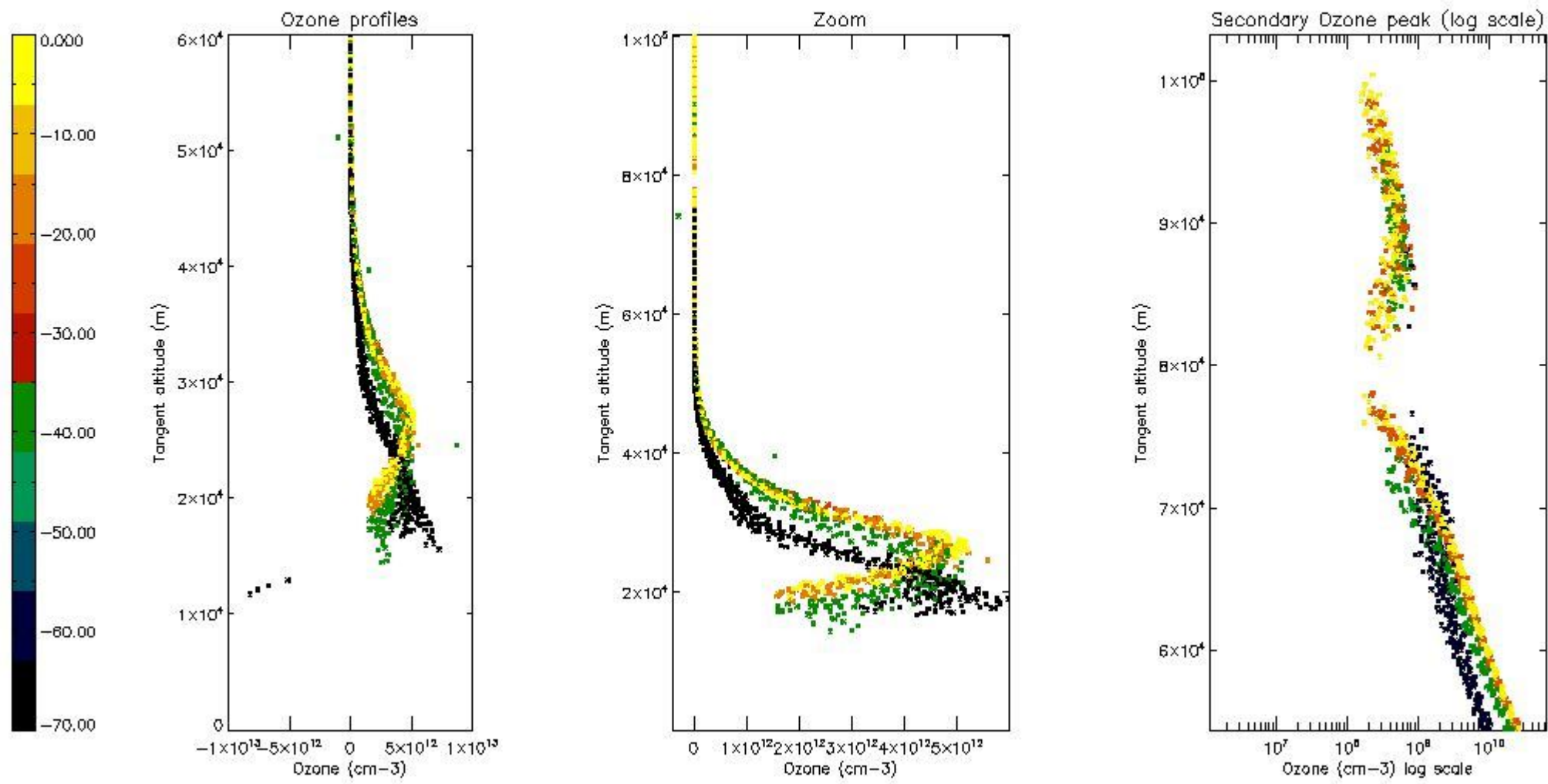
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



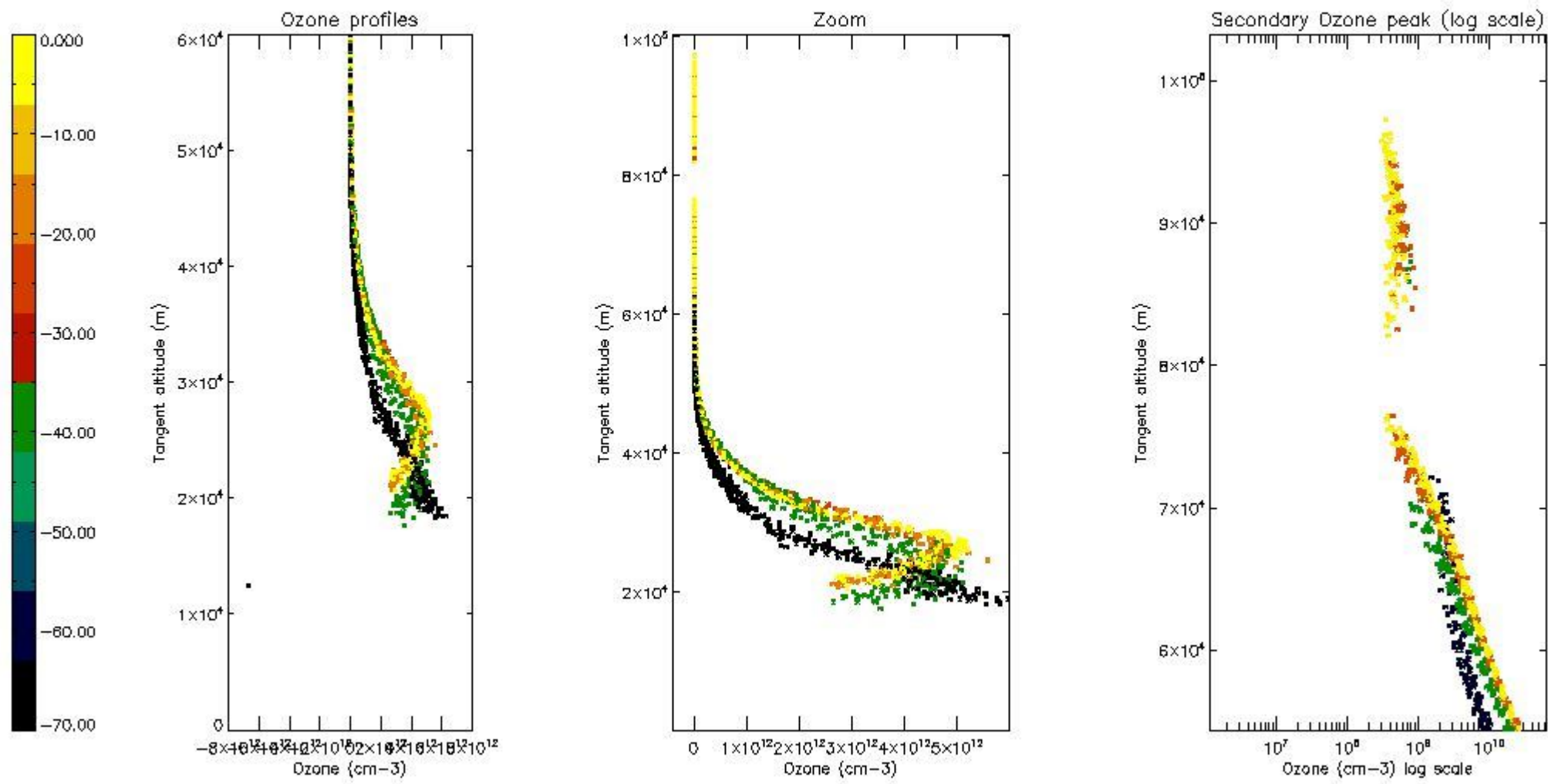
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



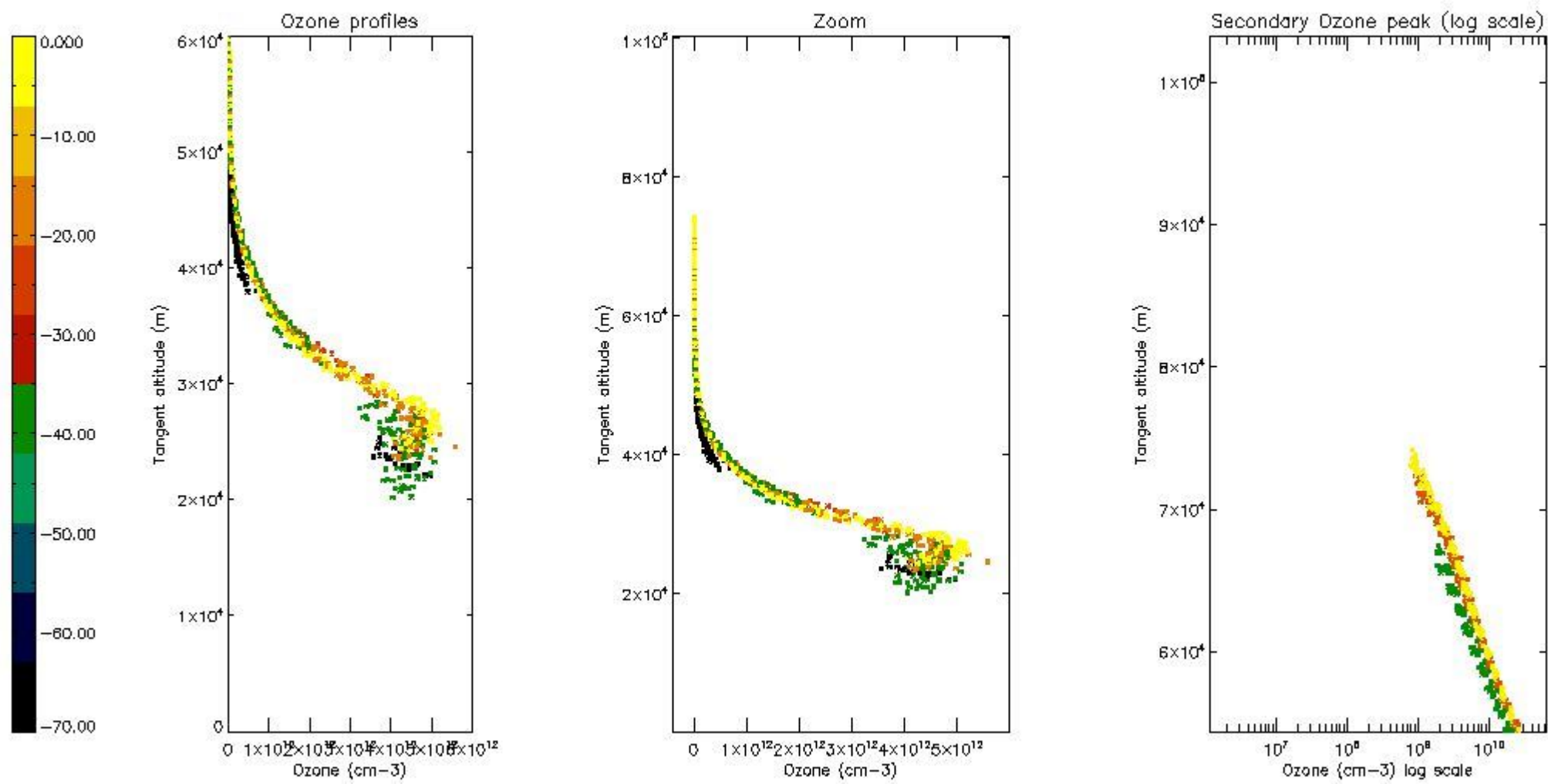
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



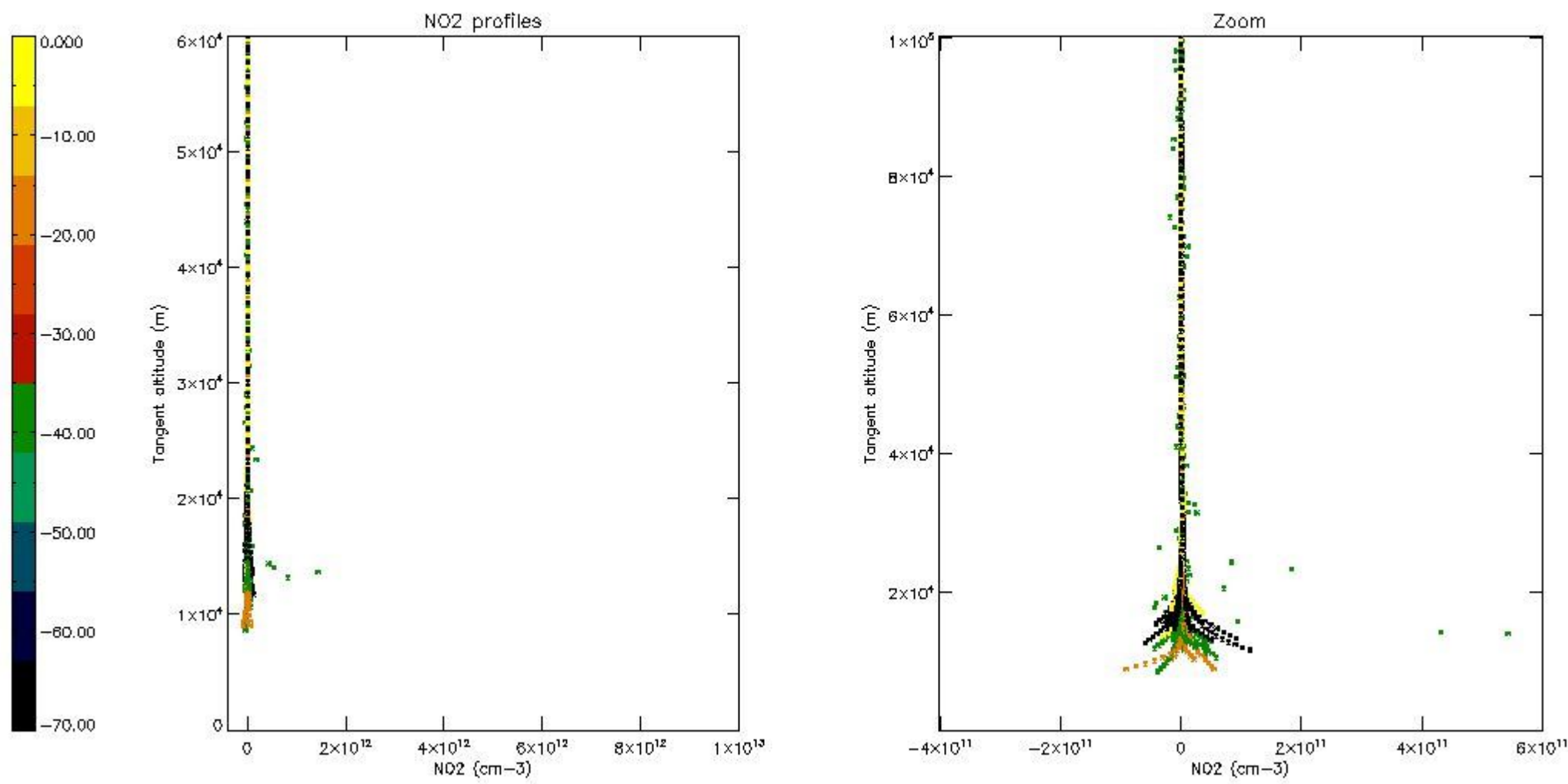
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



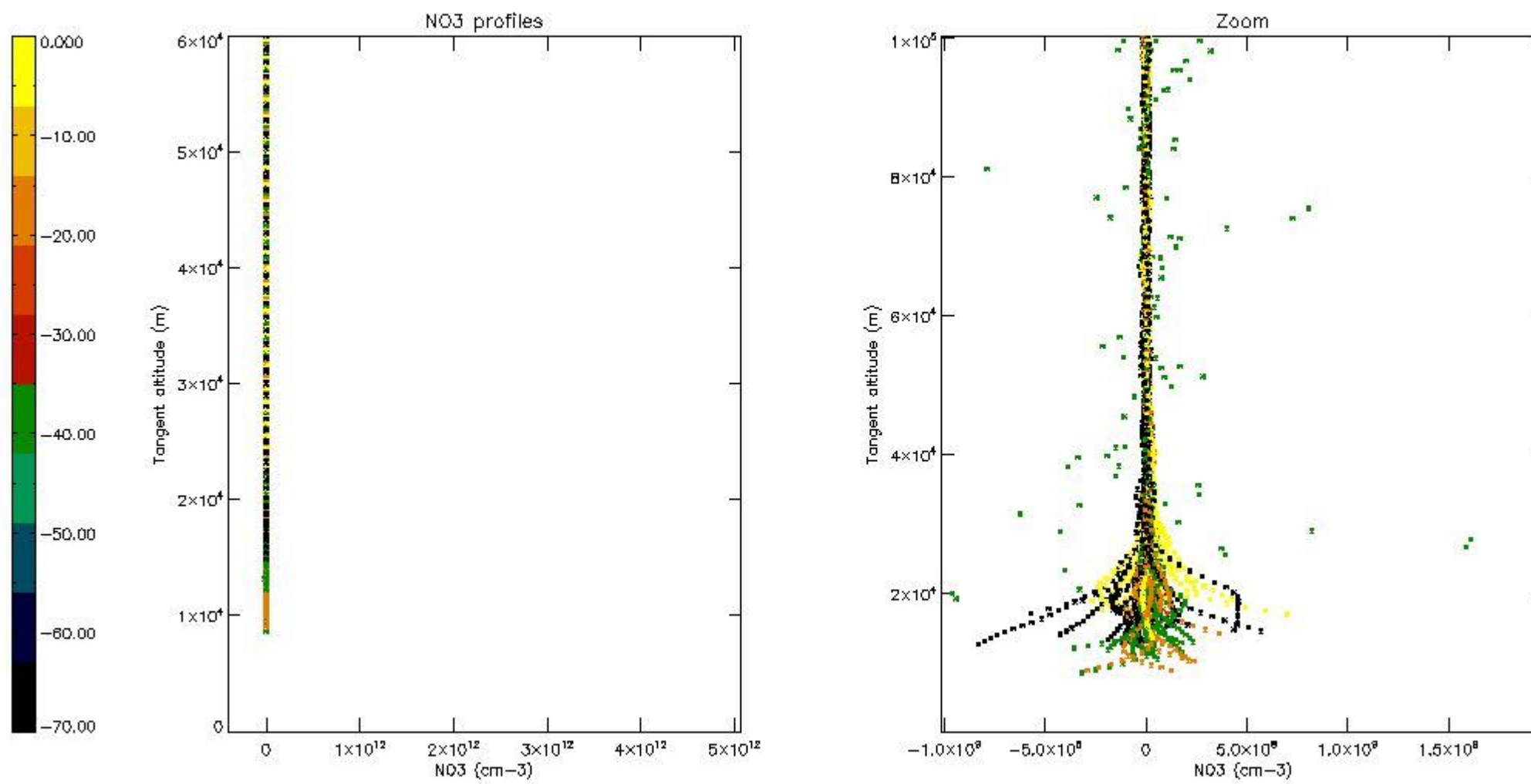
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



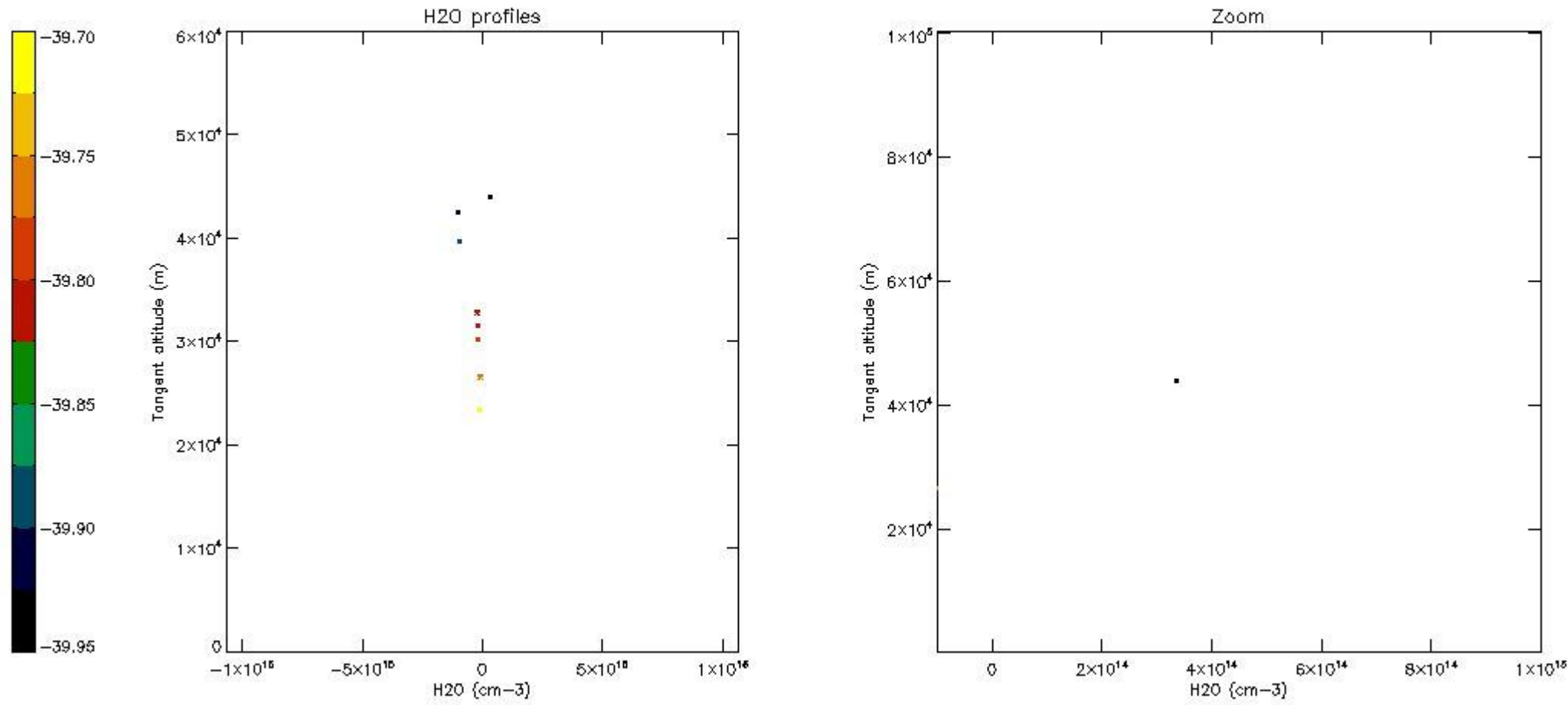
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

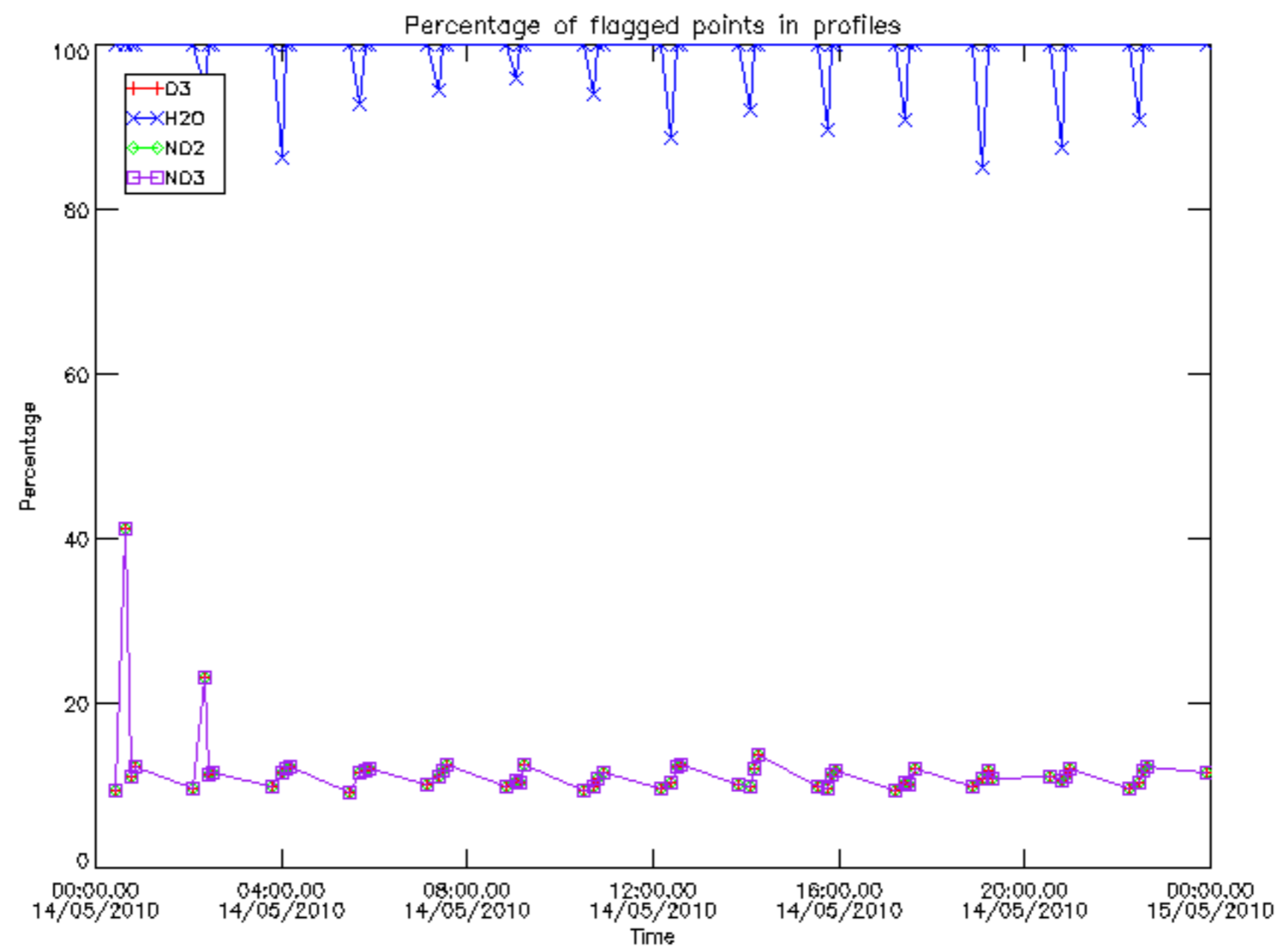
The colorbar represents the latitude.



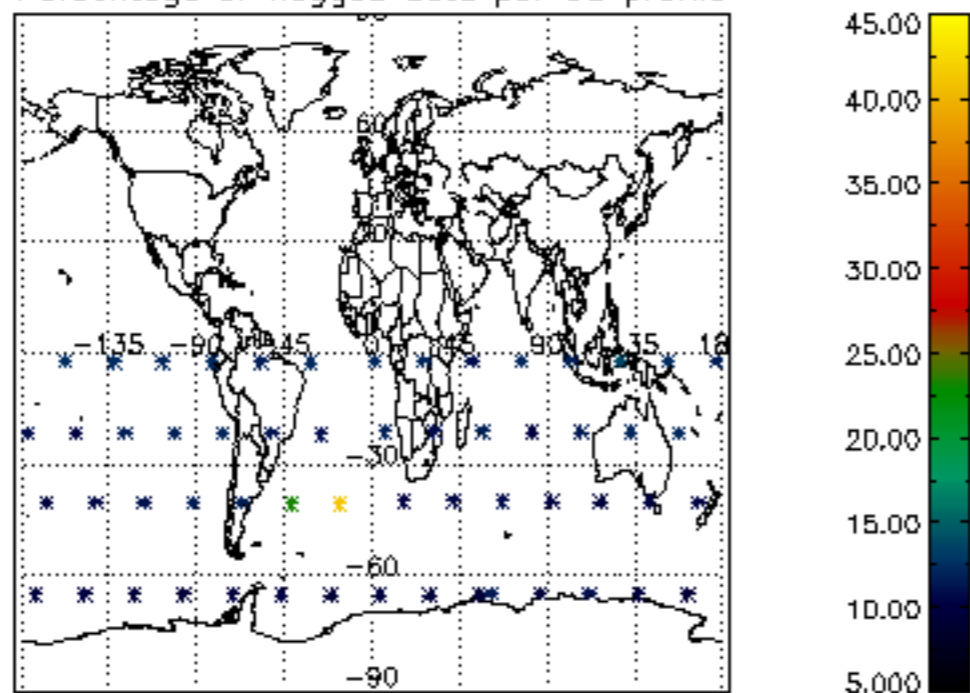
6. Auxiliary Data Files used for the production reported in section 2

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.

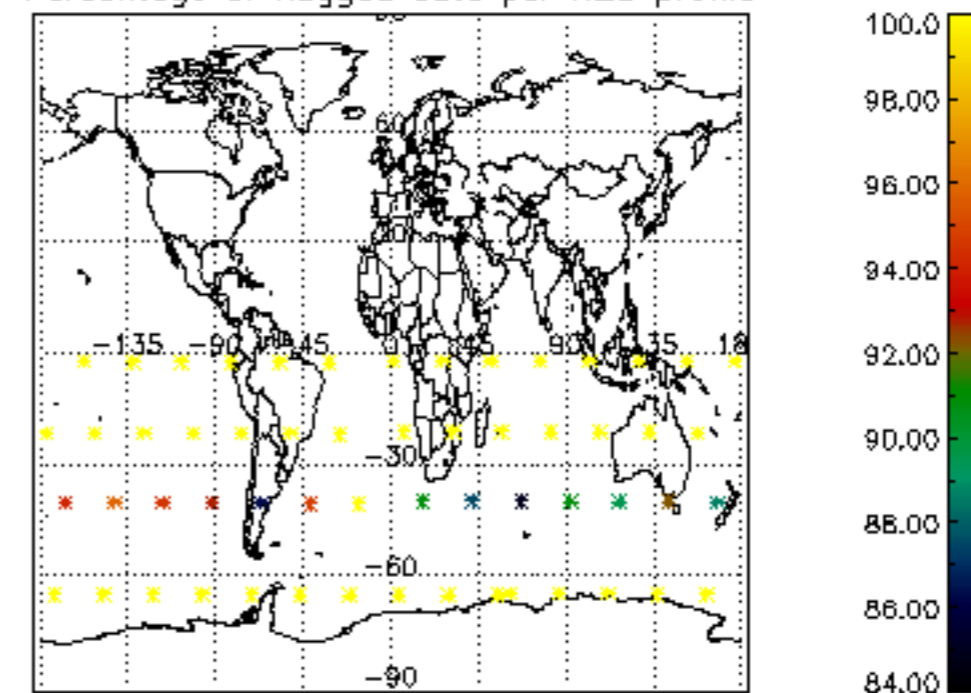
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	14-MAY-2010 00:08:08
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-MAY-2010 00:08:08
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-MAY-2010 00:08:08



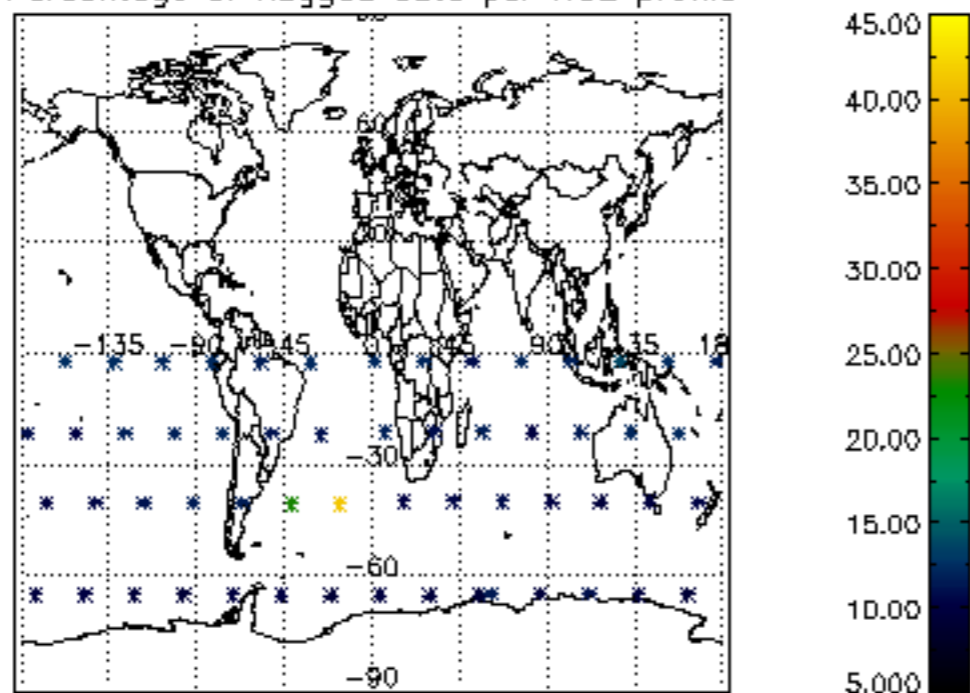
Percentage of flagged data per D3 profile



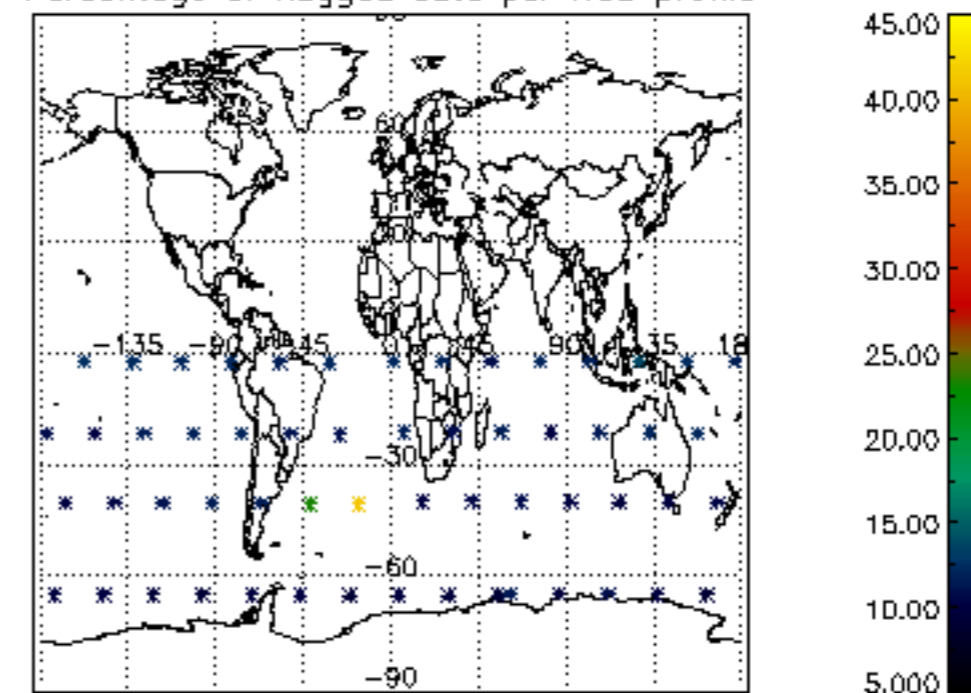
Percentage of flagged data per H2O profile

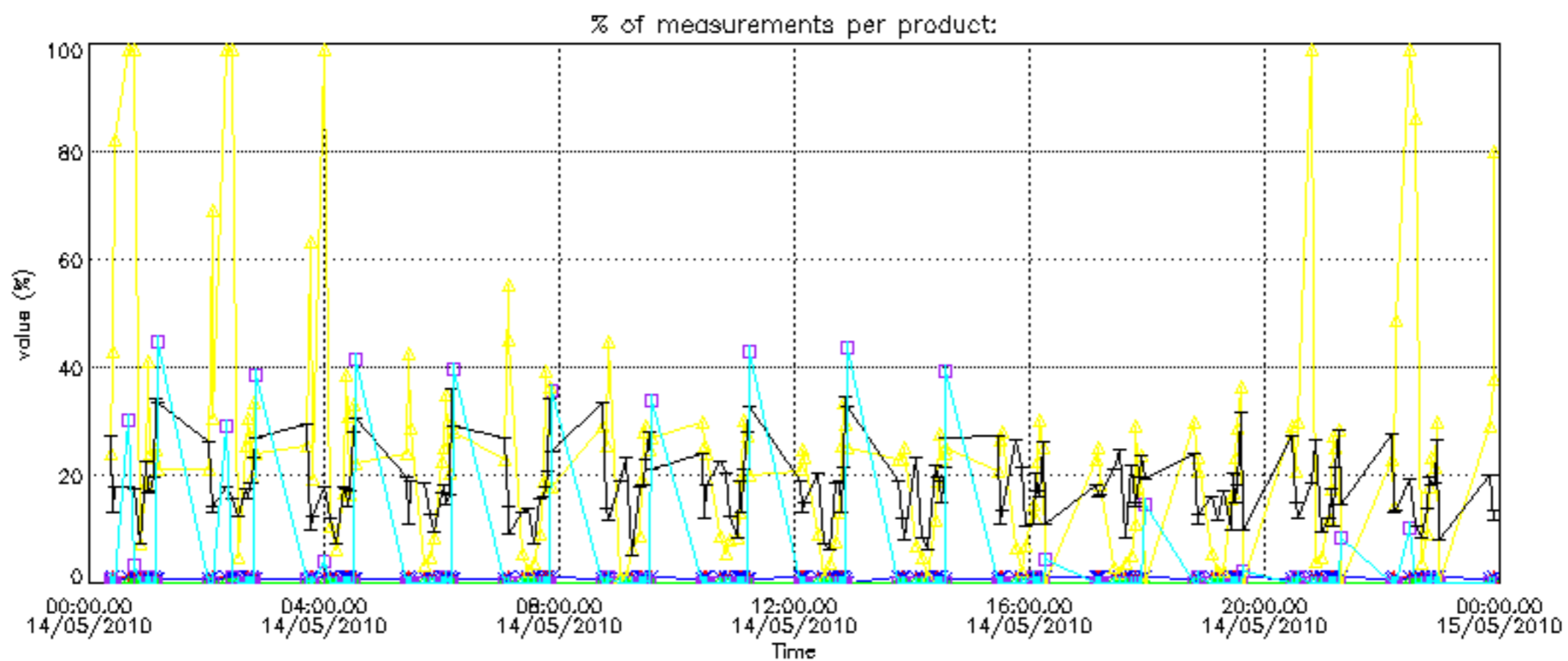


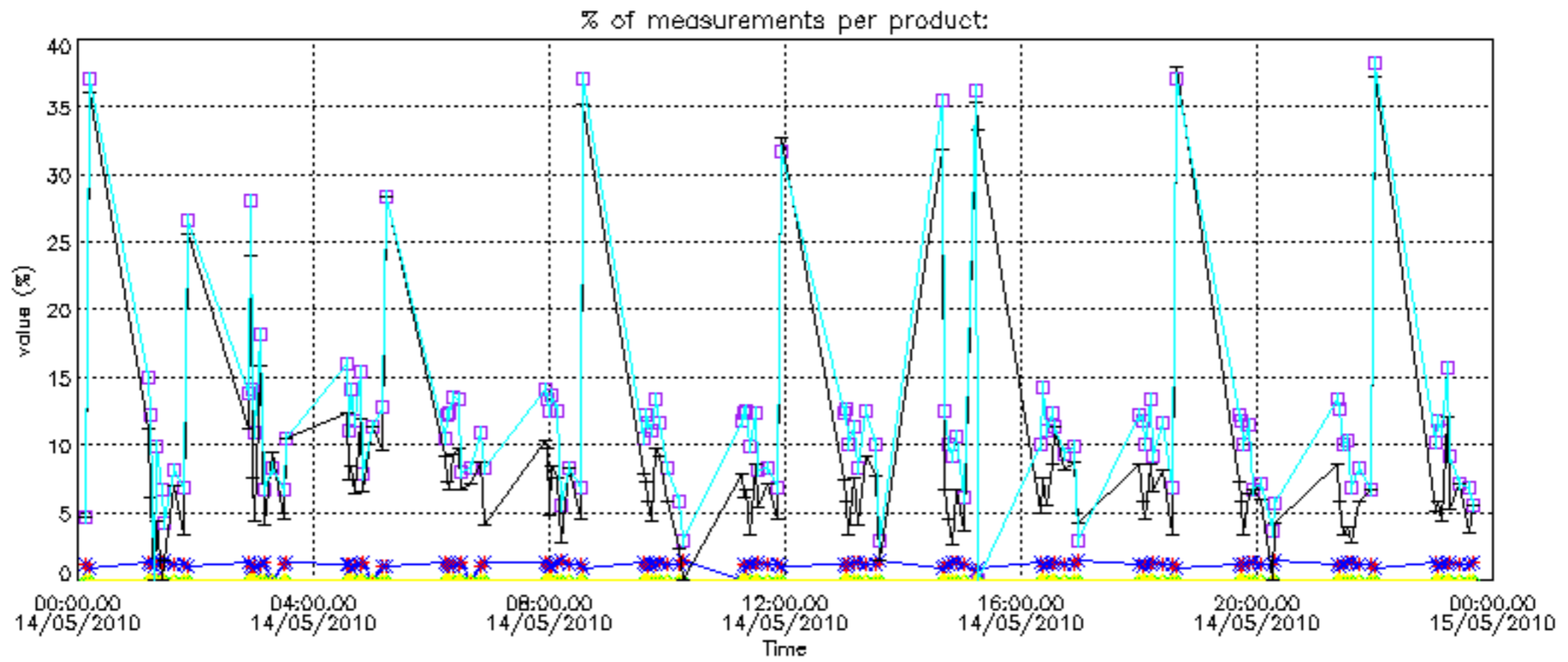
Percentage of flagged data per NO2 profile



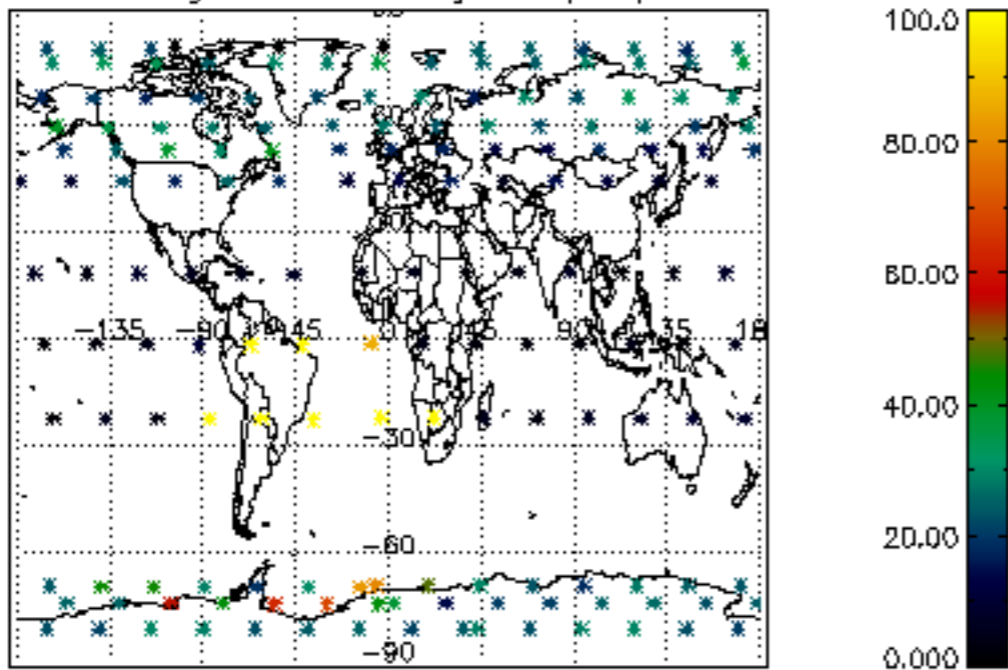
Percentage of flagged data per NO3 profile



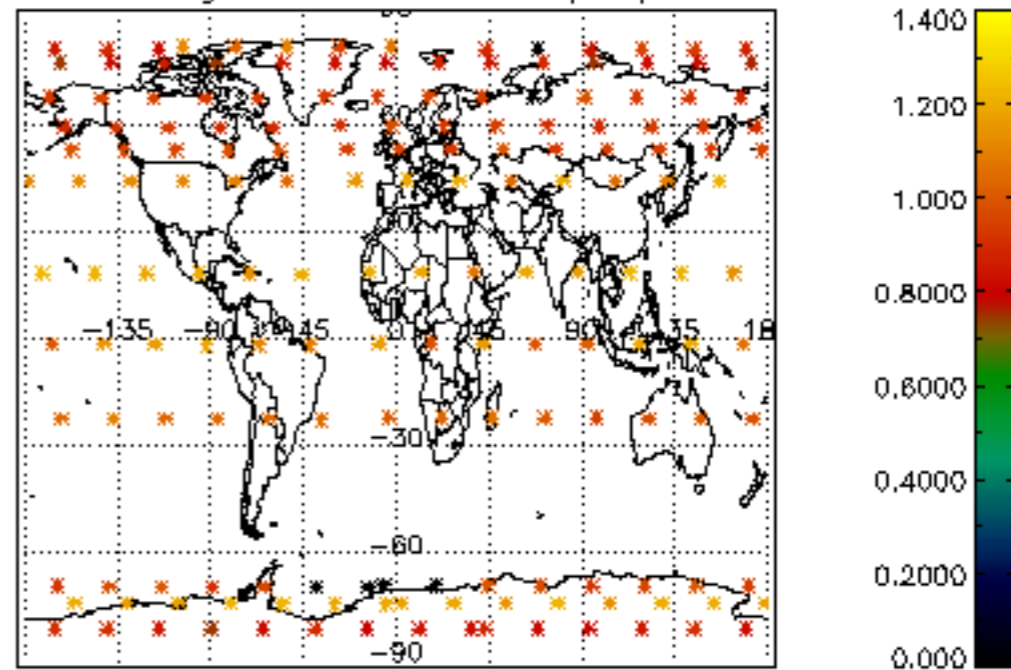




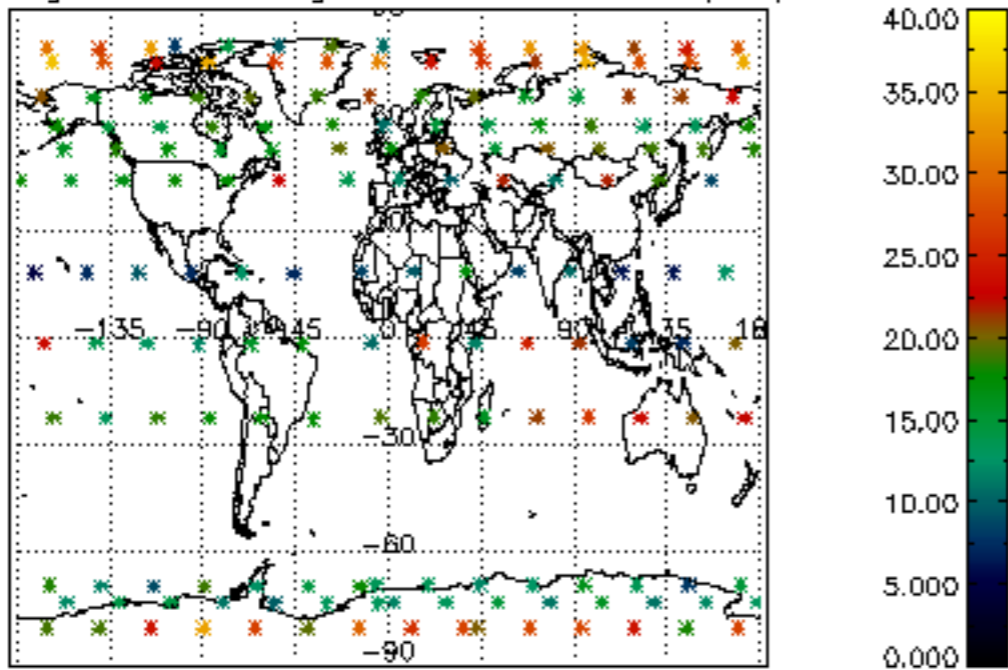
Percentage of cosmic ray hits per profile



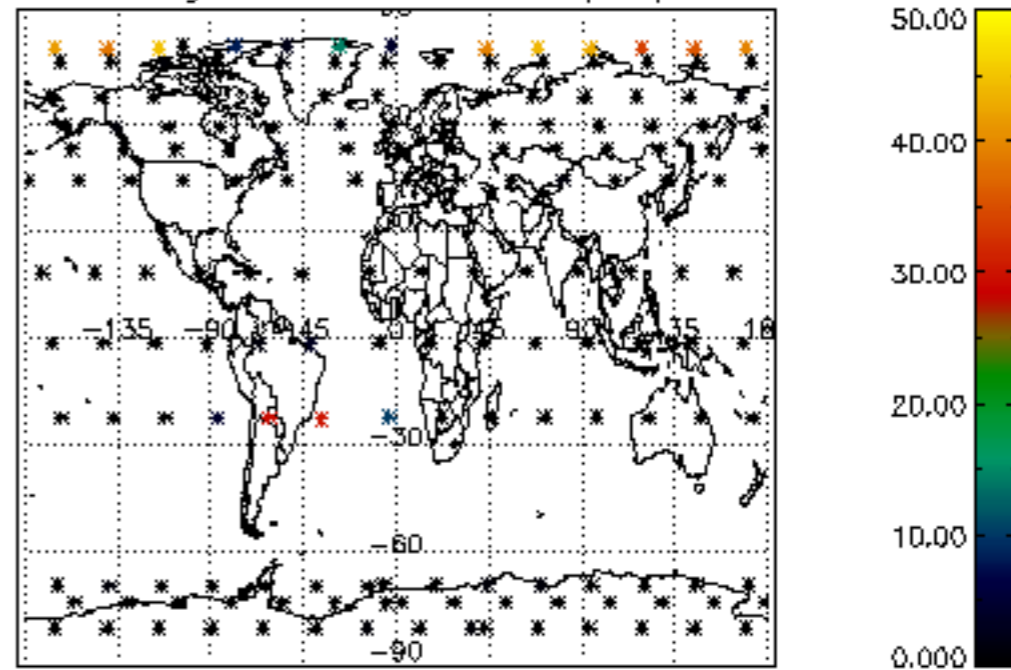
Percentage of datation errors per profile



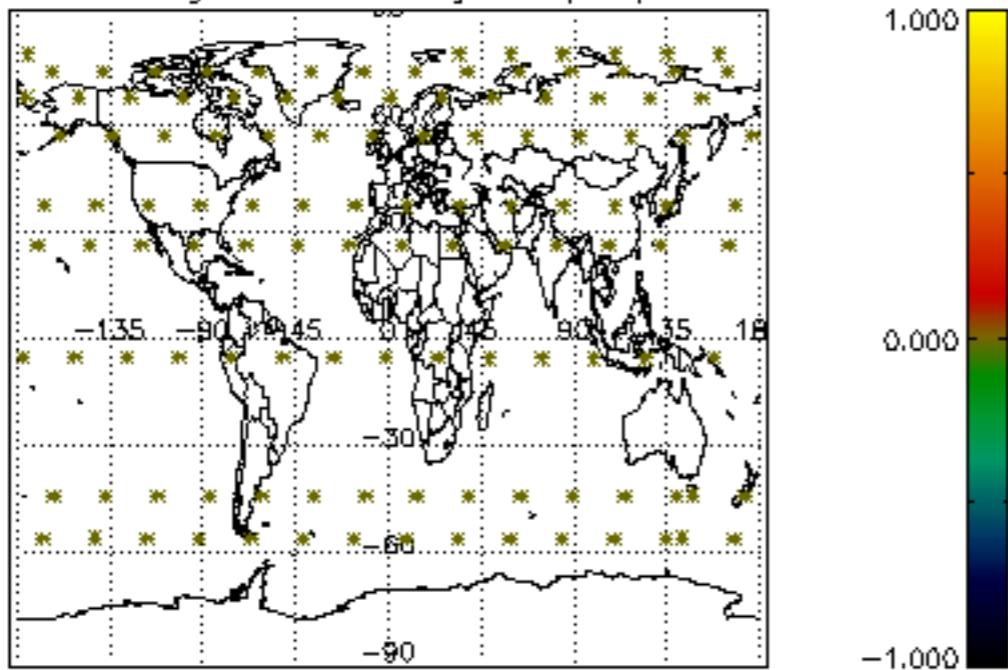
Percentage of star falling outside central band per profile



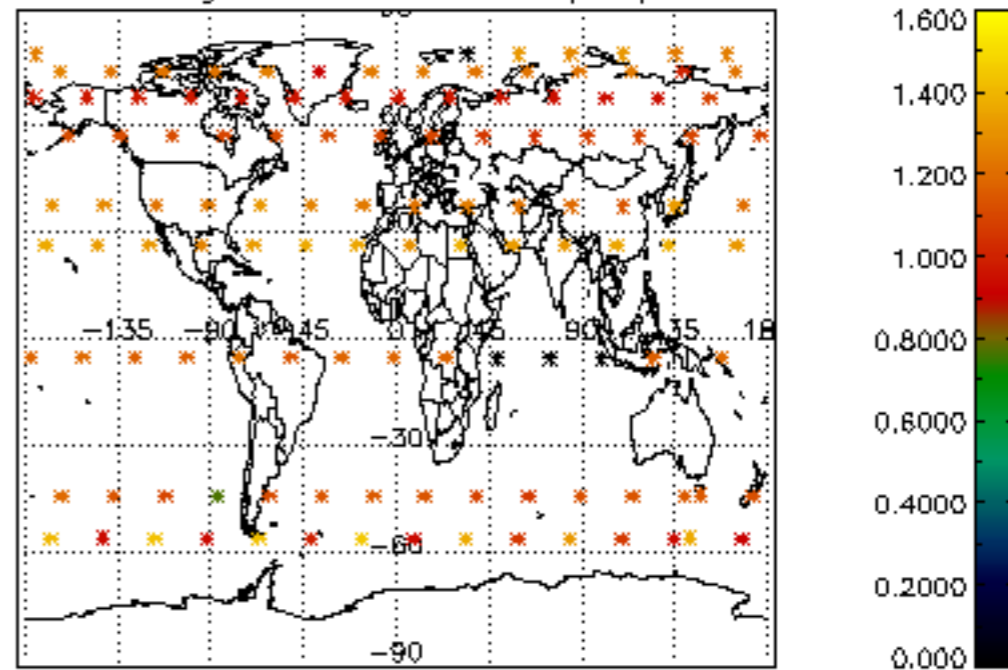
Percentage of saturation errors per profile



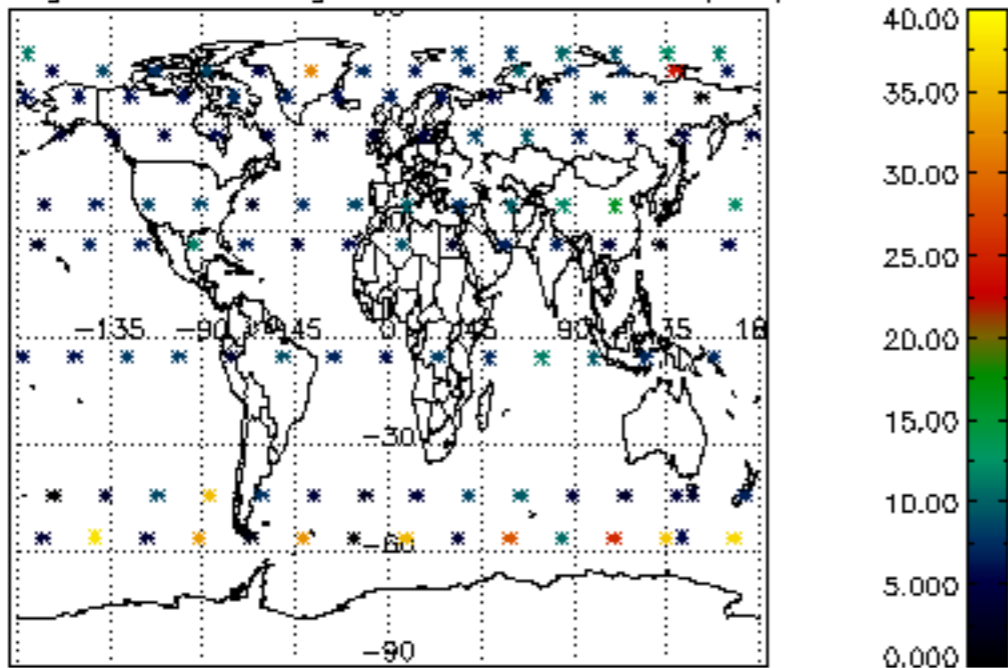
Percentage of cosmic ray hits per profile



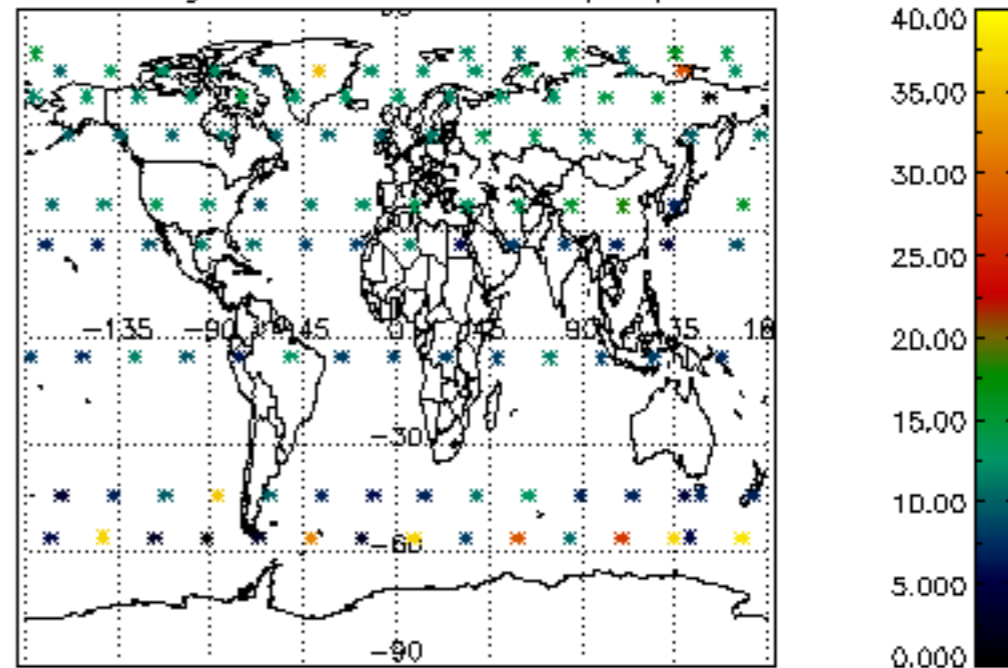
Percentage of datation errors per profile

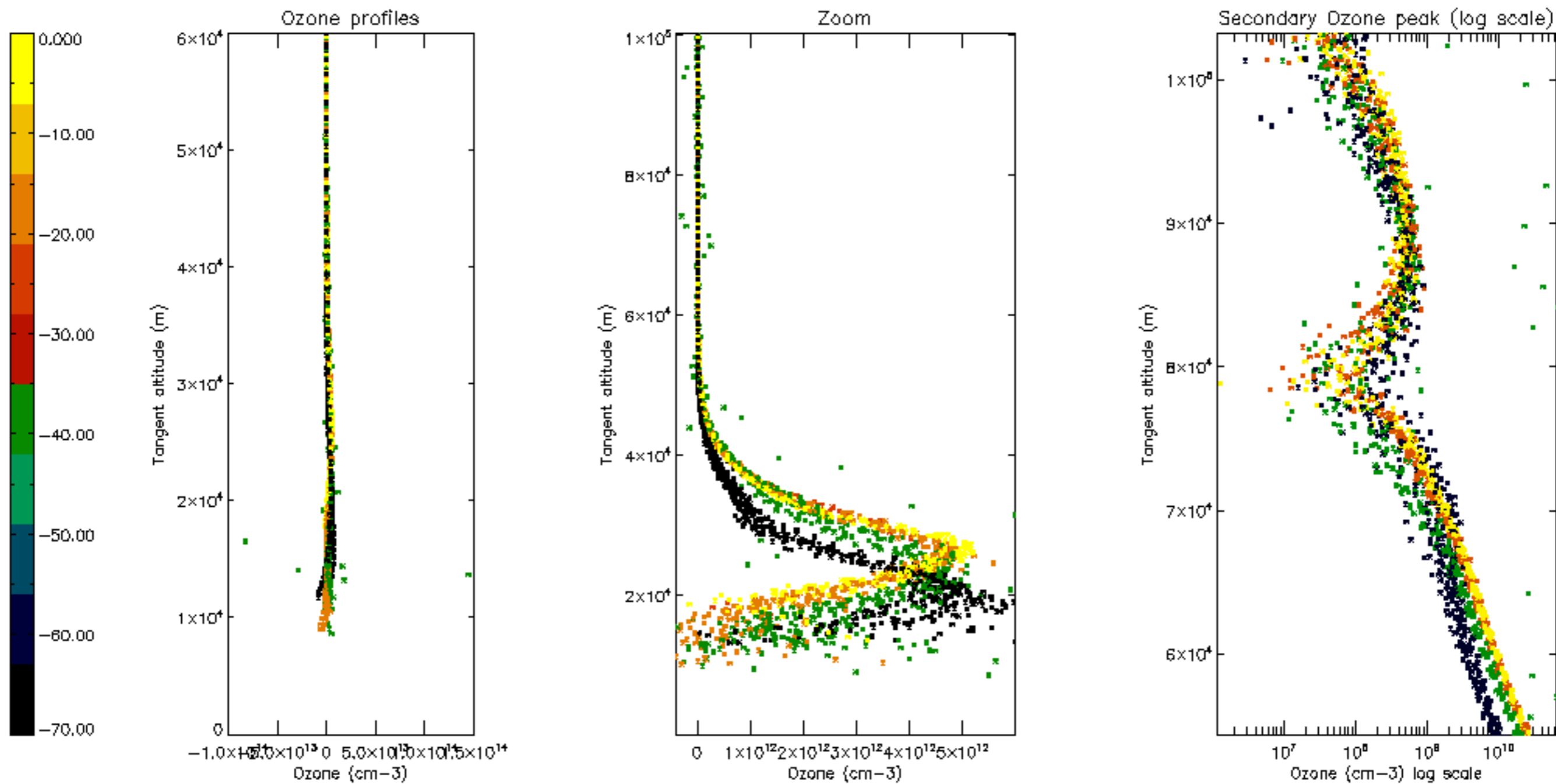


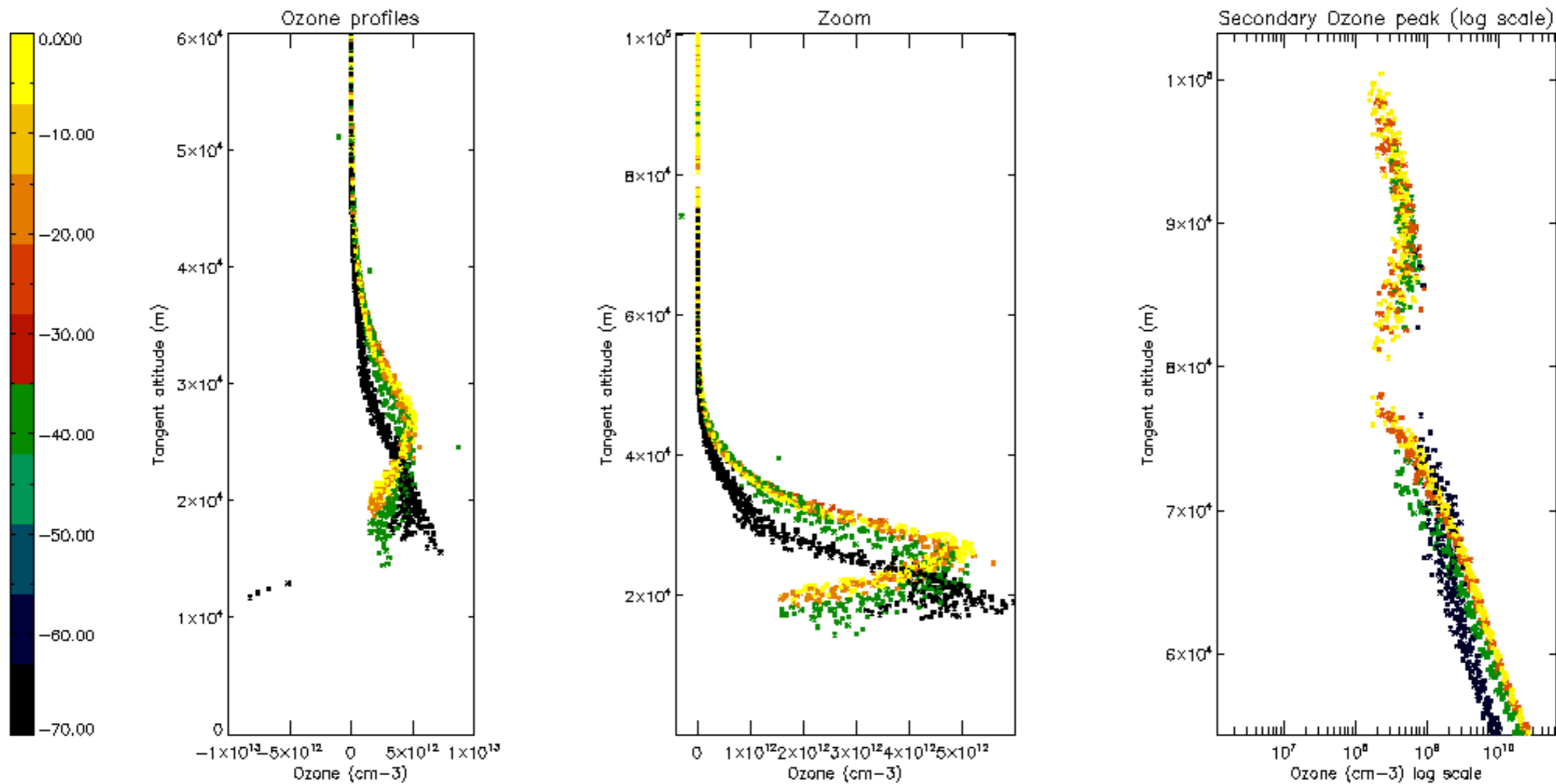
Percentage of star falling outside central band per profile

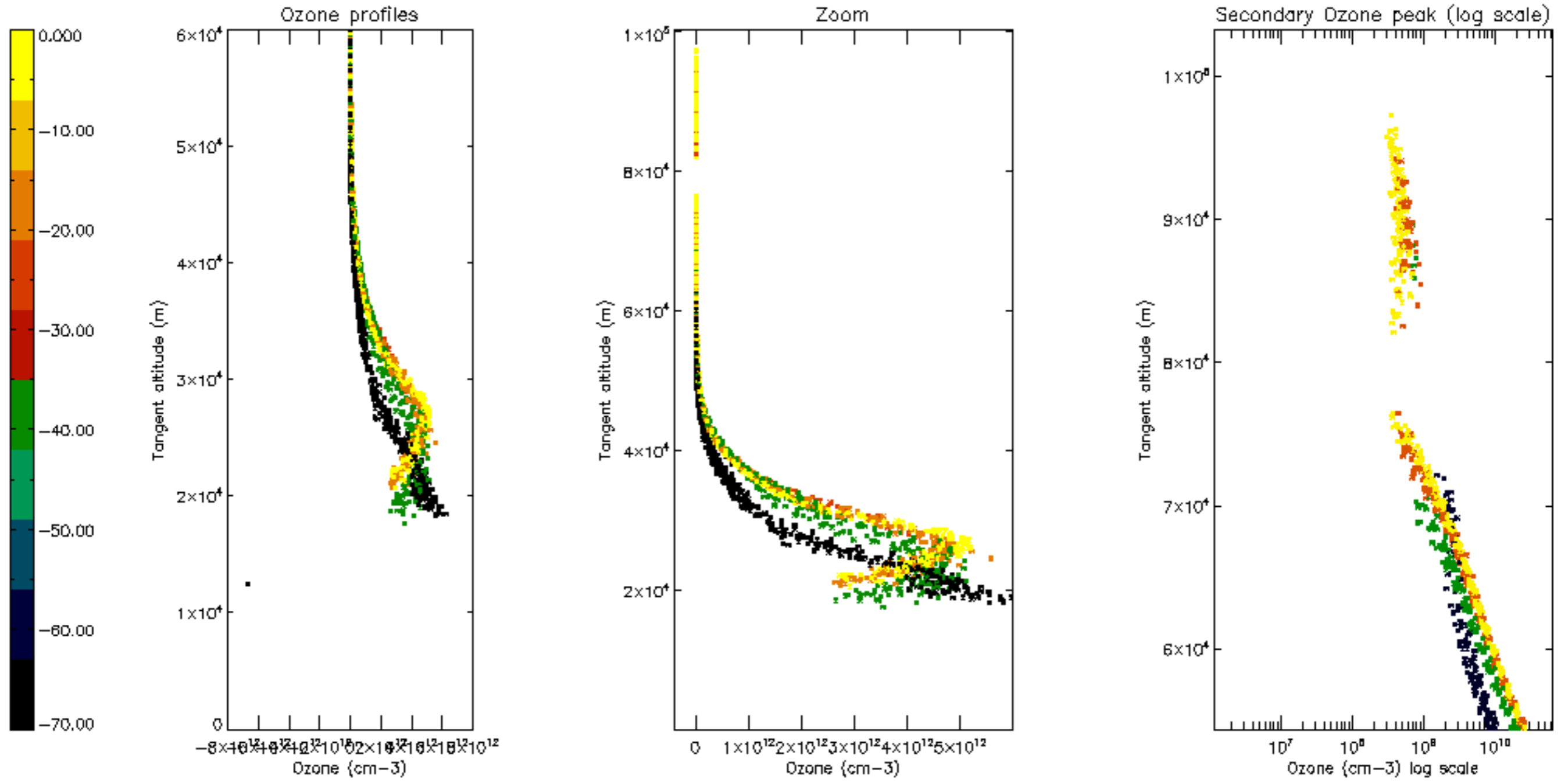


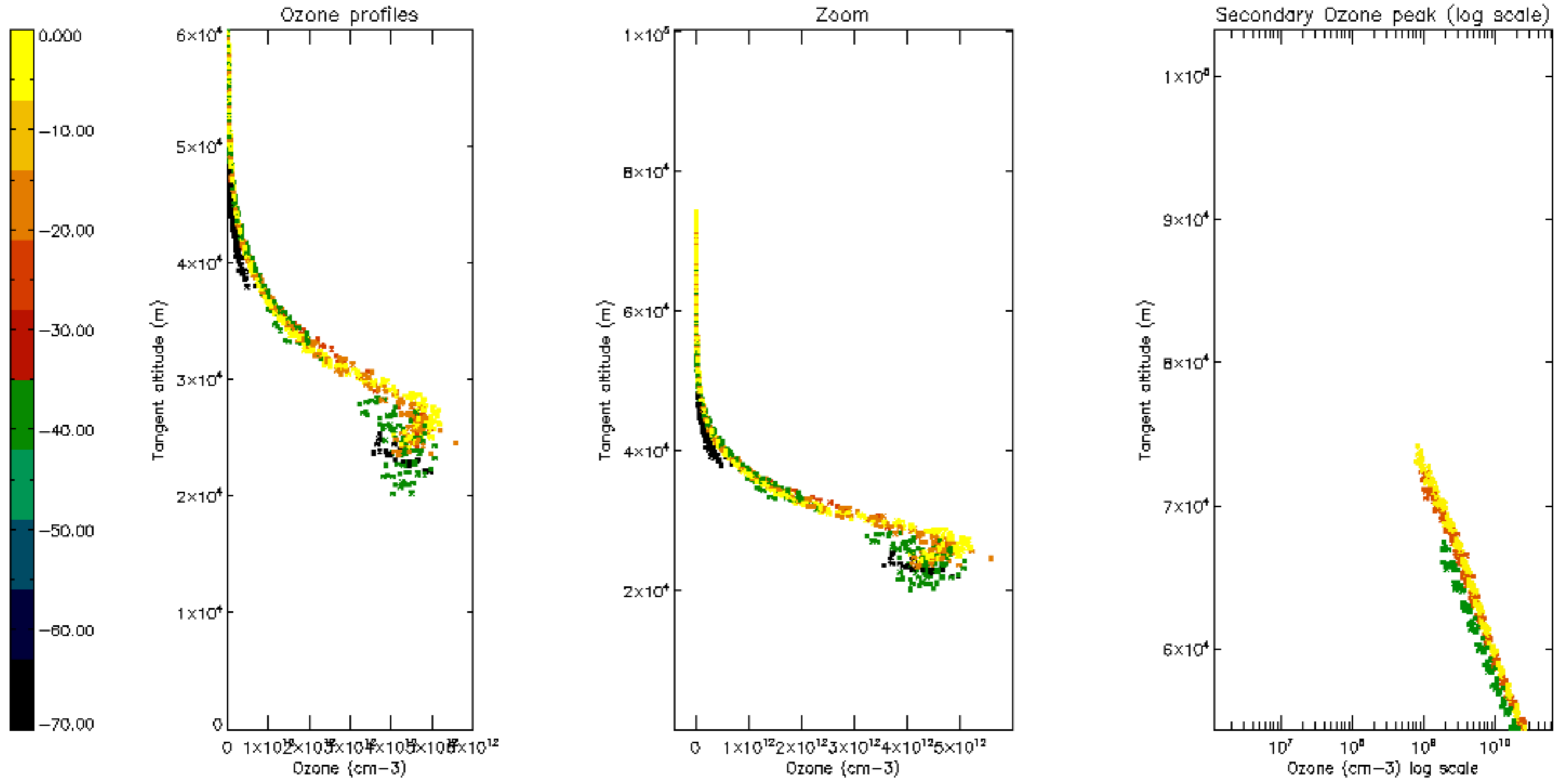
Percentage of saturation errors per profile

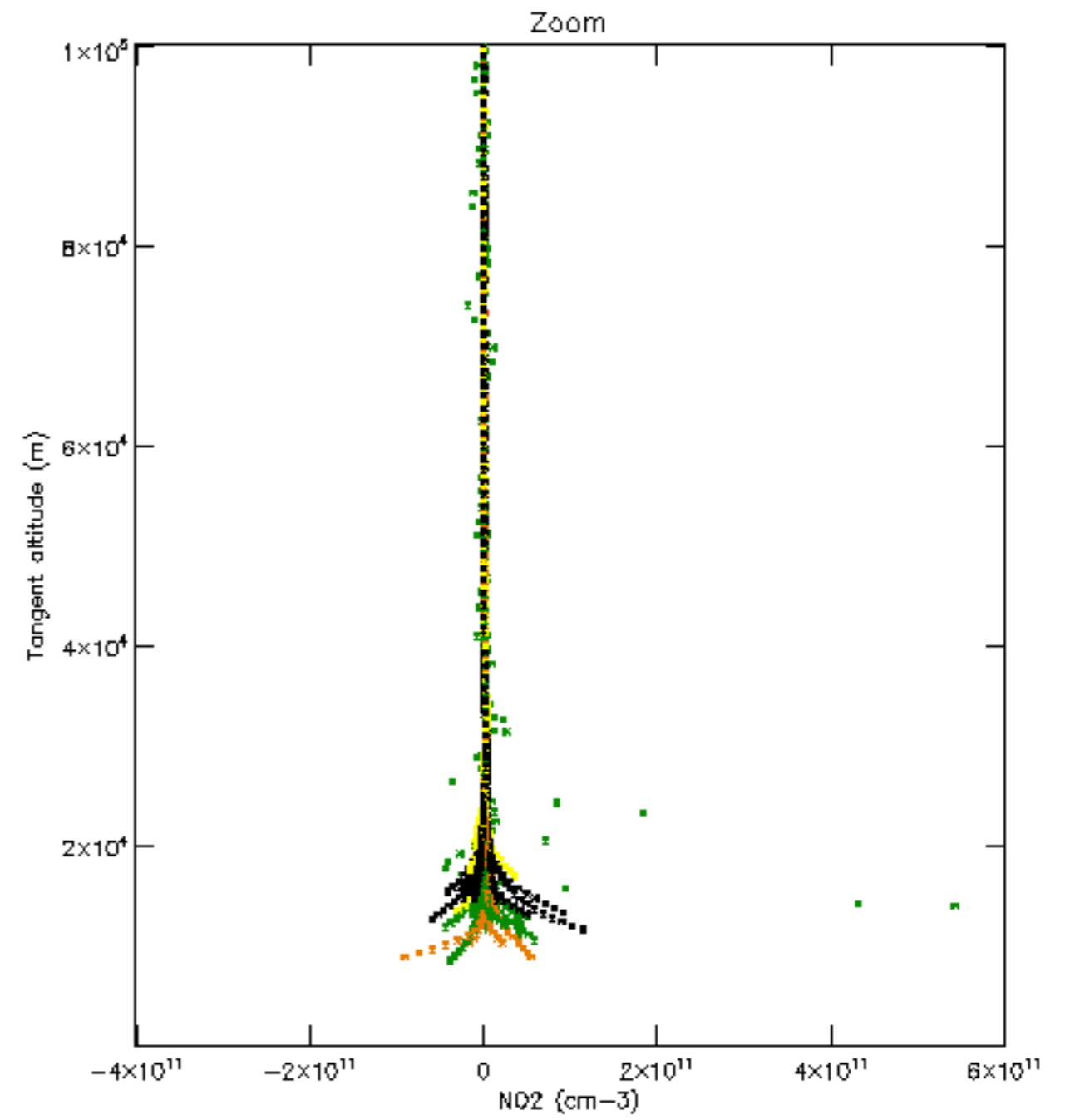
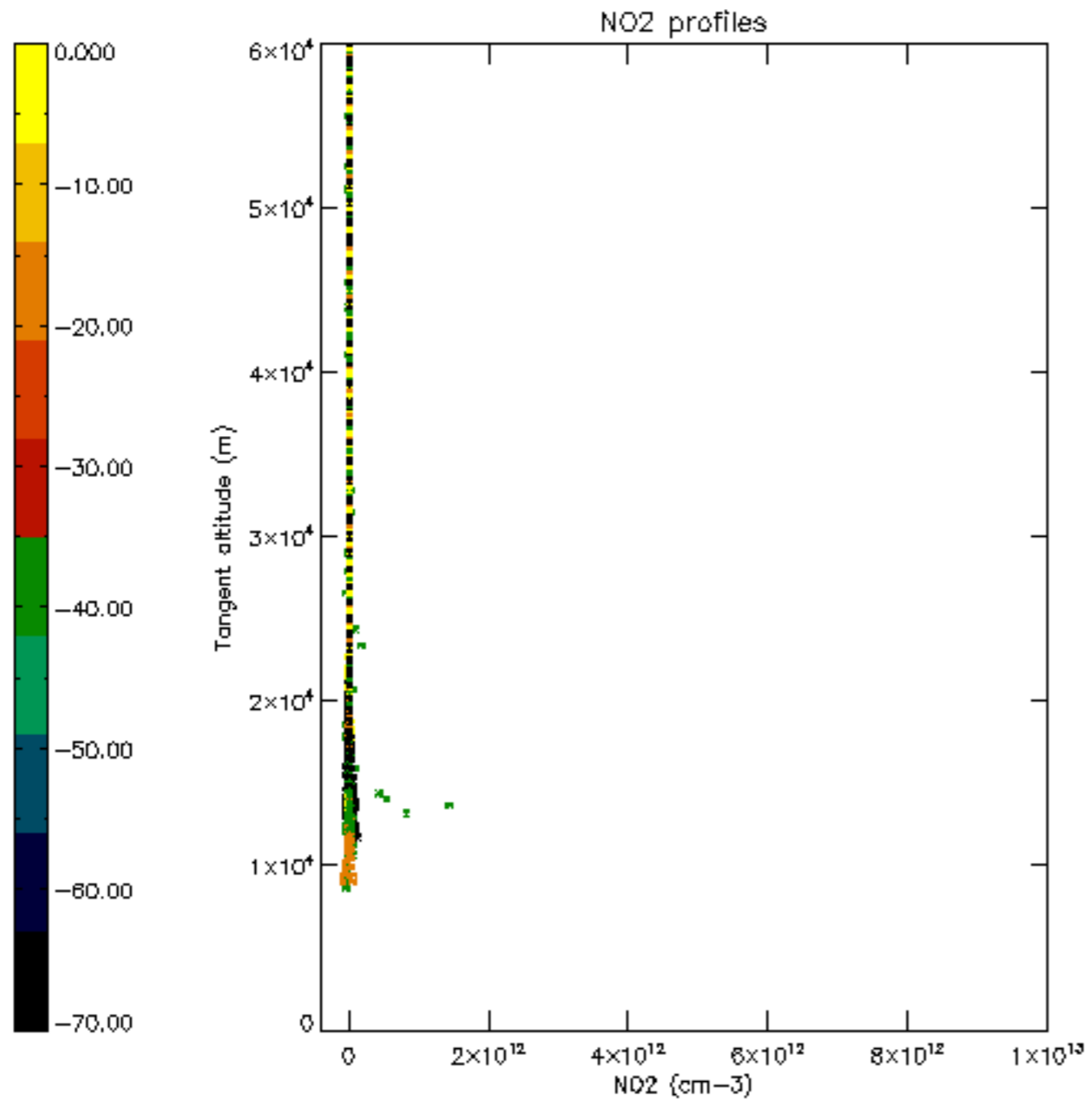


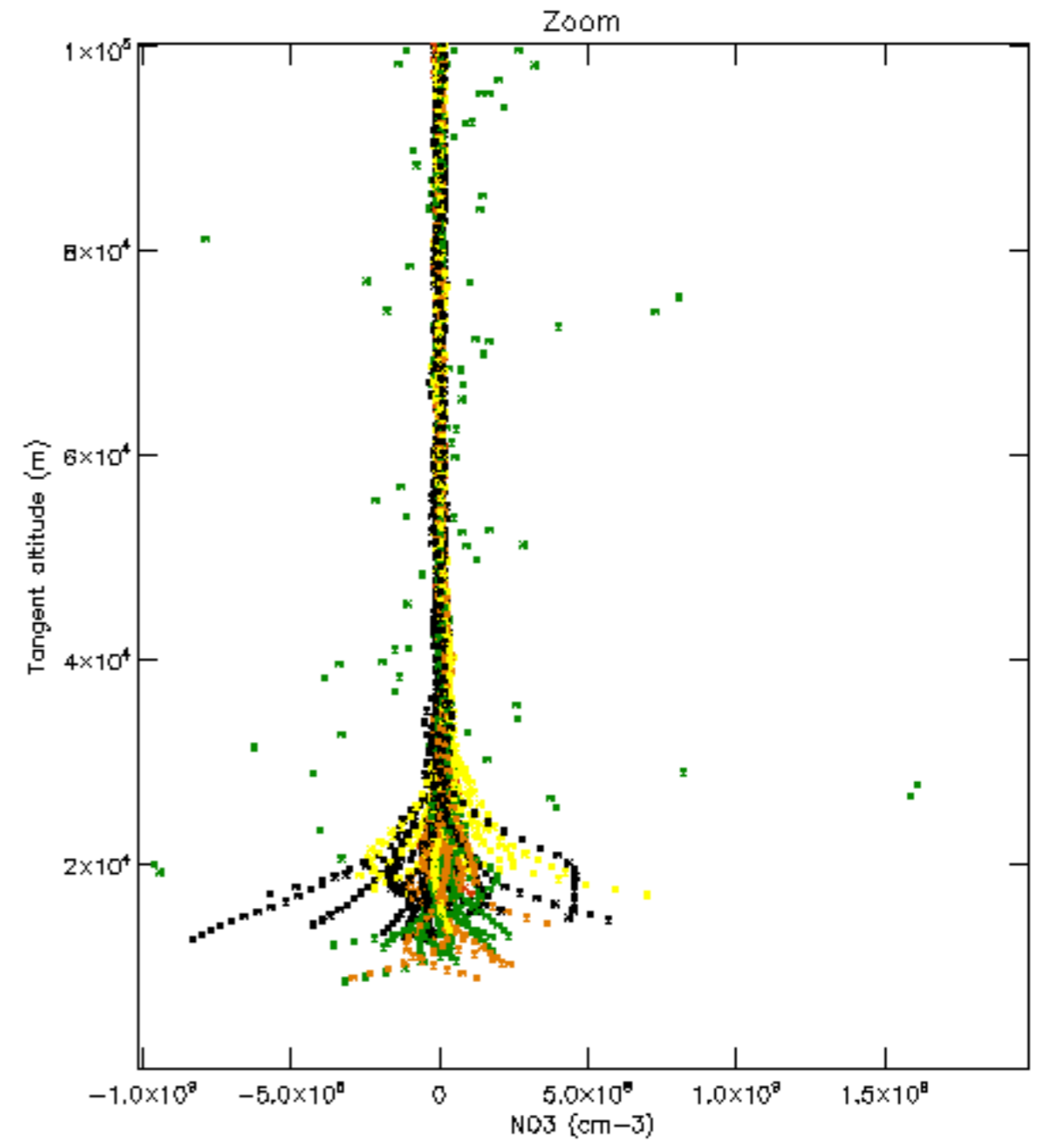
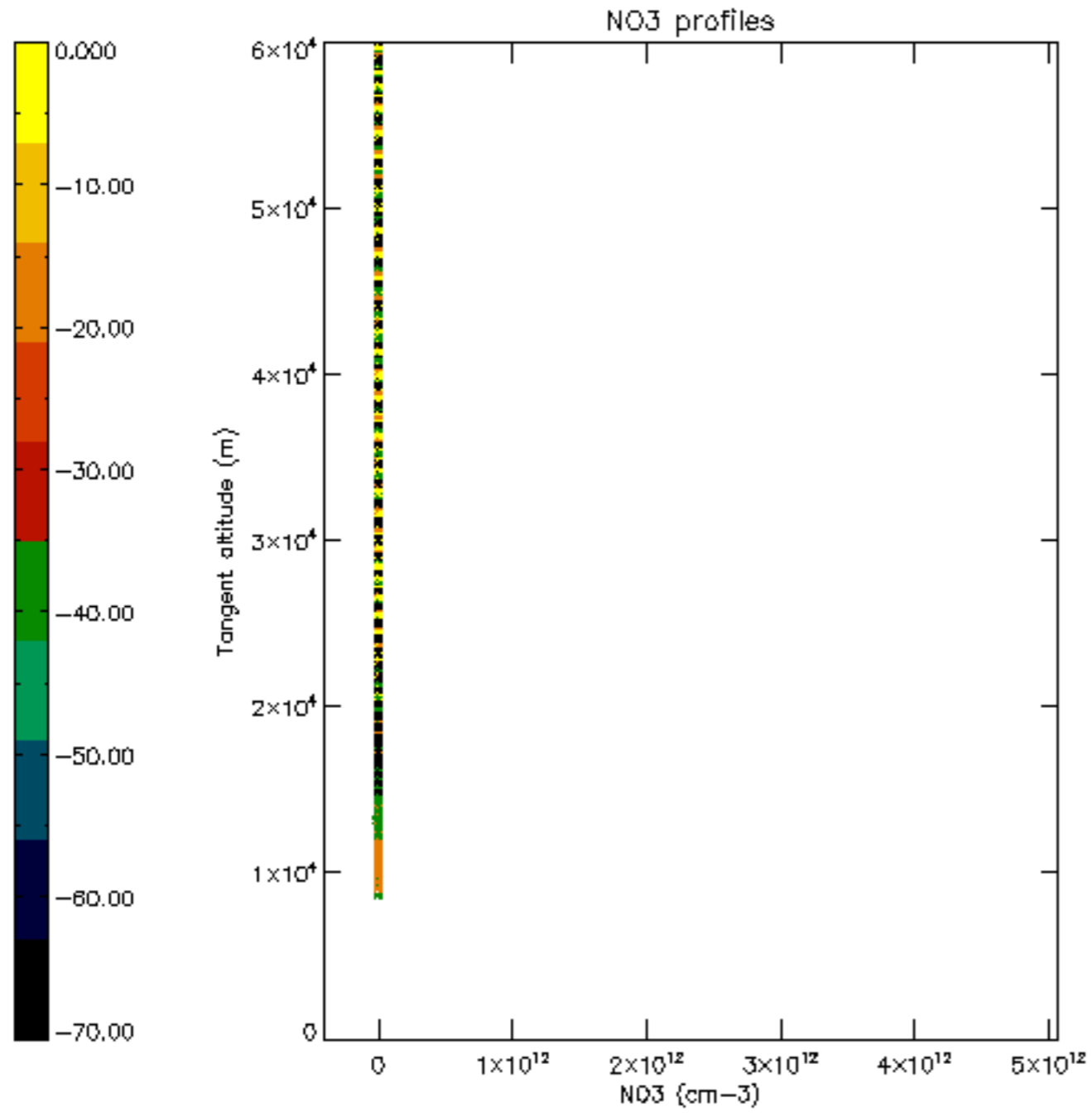


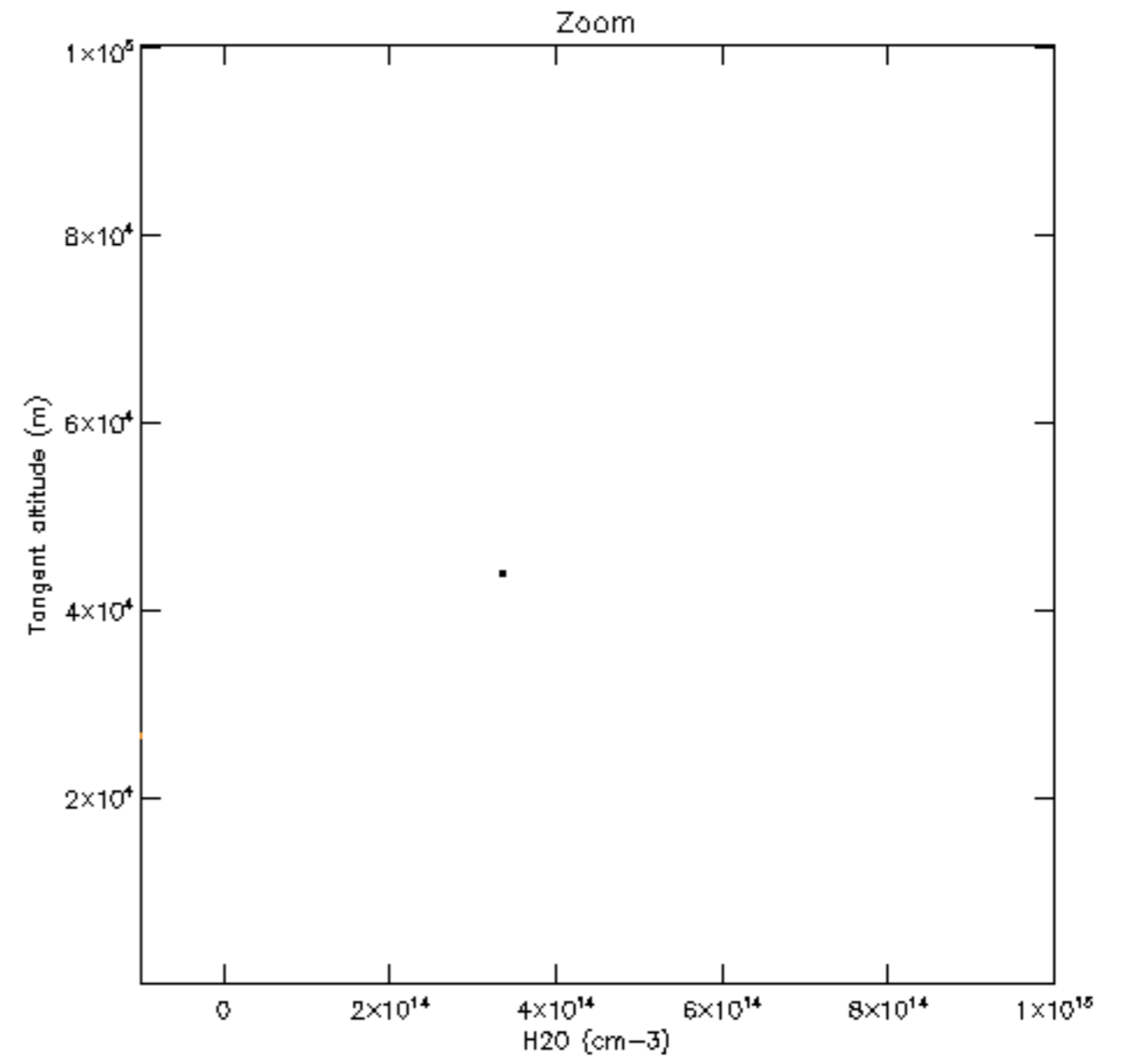
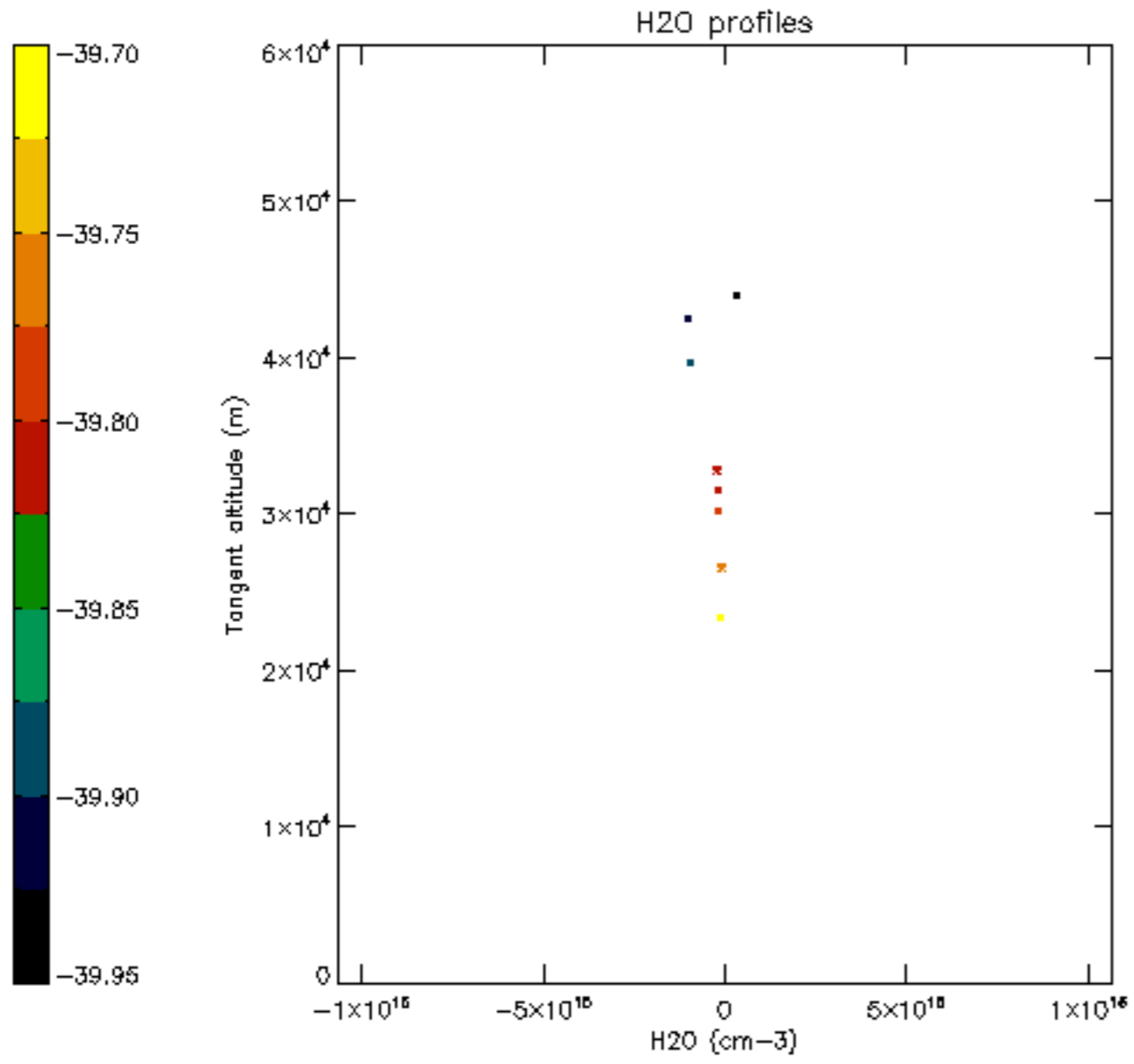


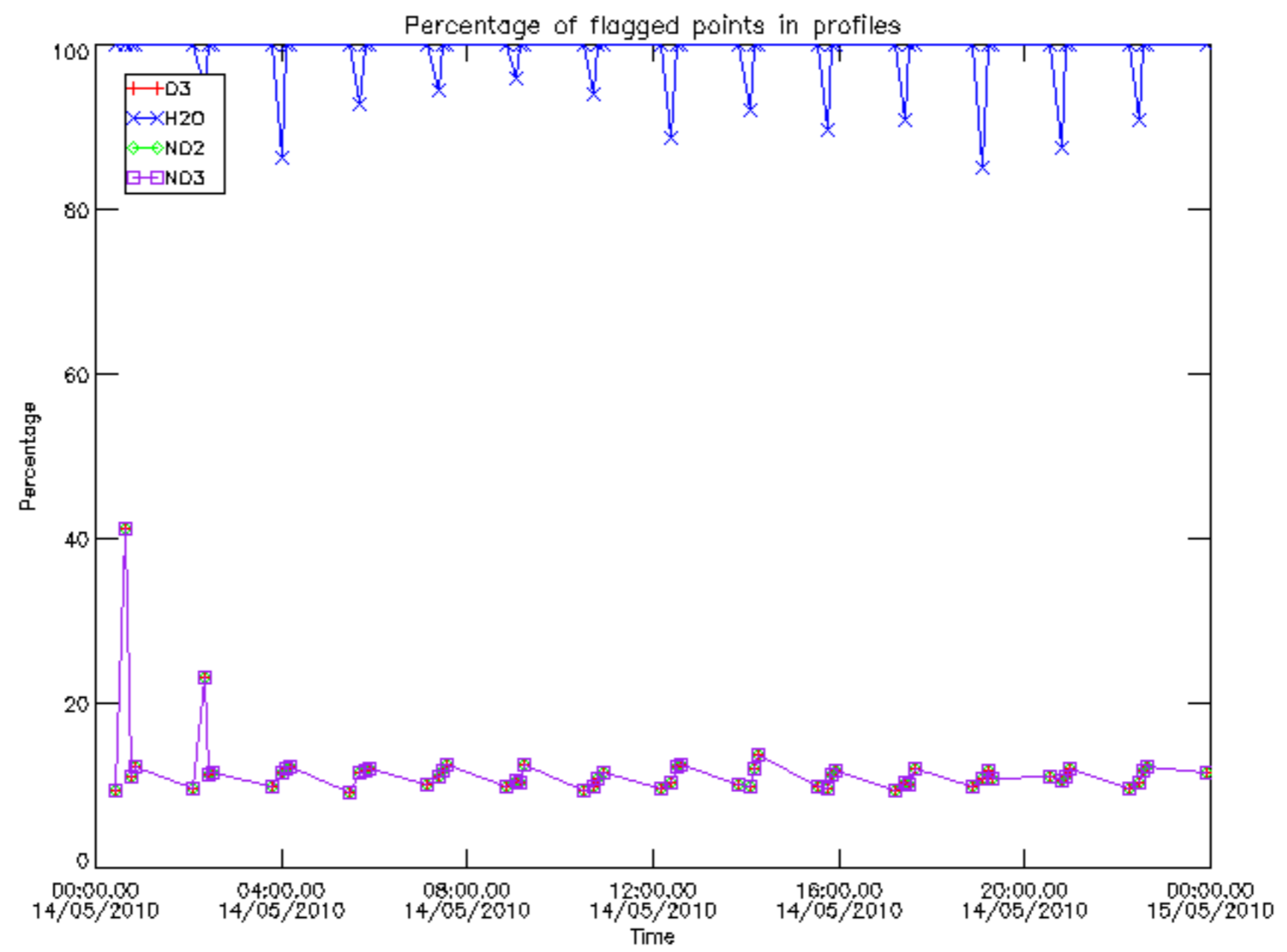




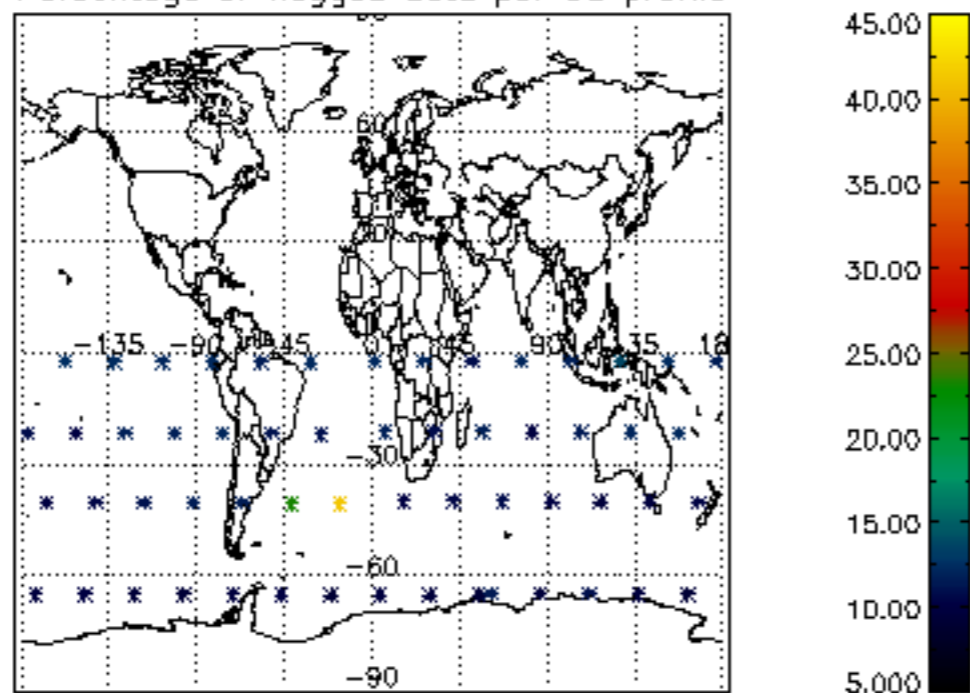




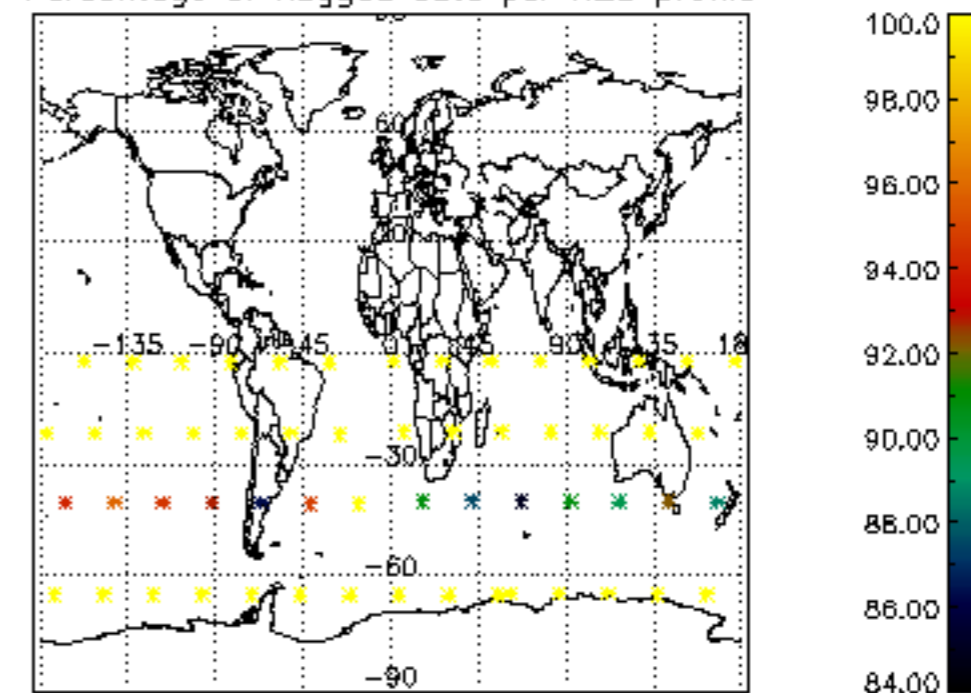




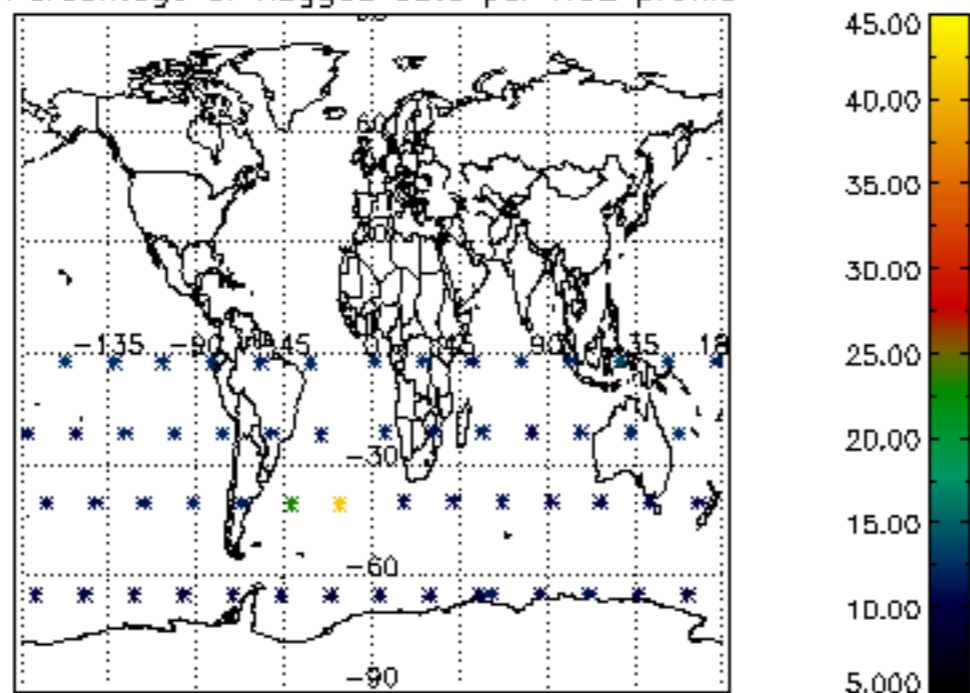
Percentage of flagged data per D3 profile



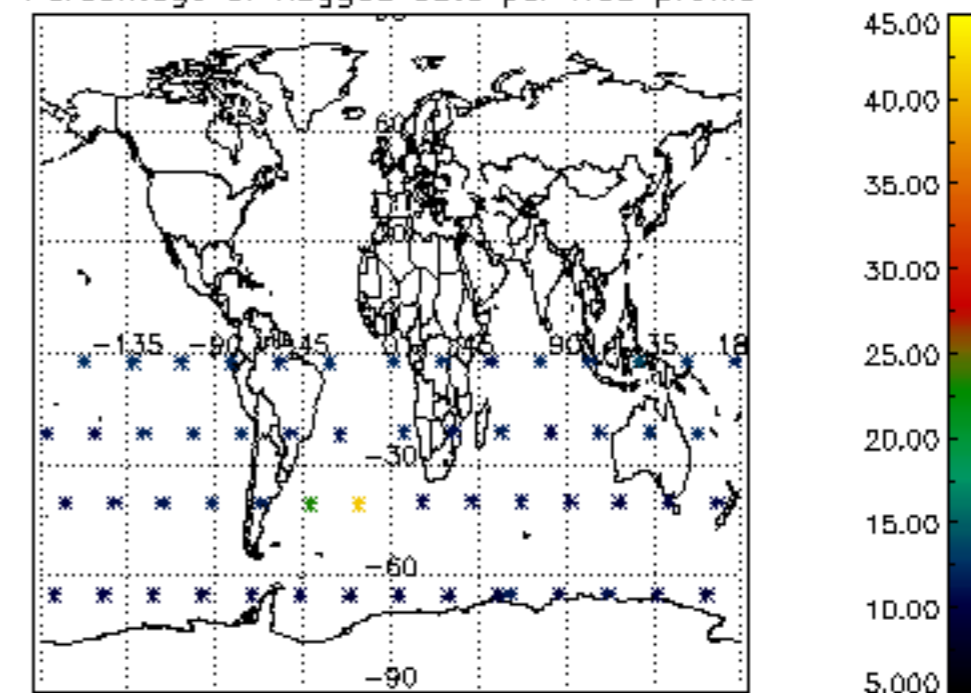
Percentage of flagged data per H2O profile

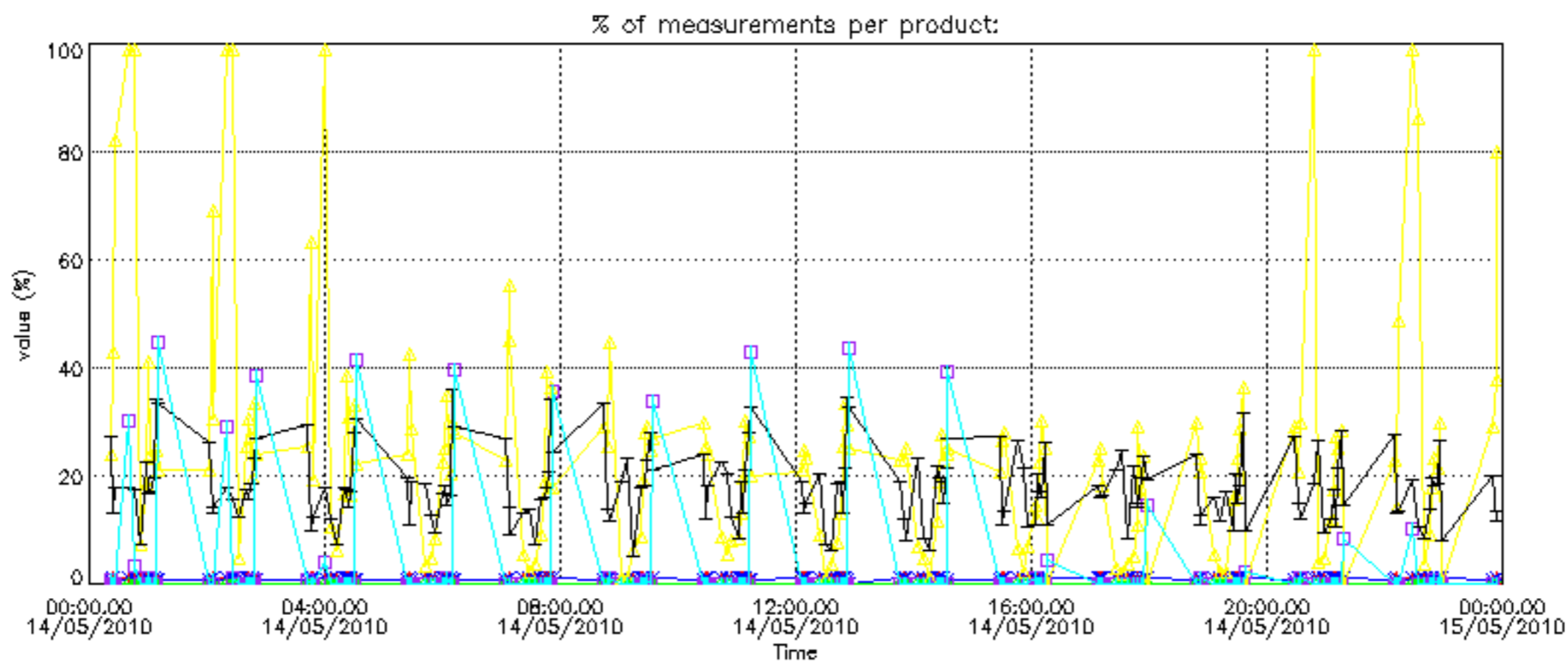


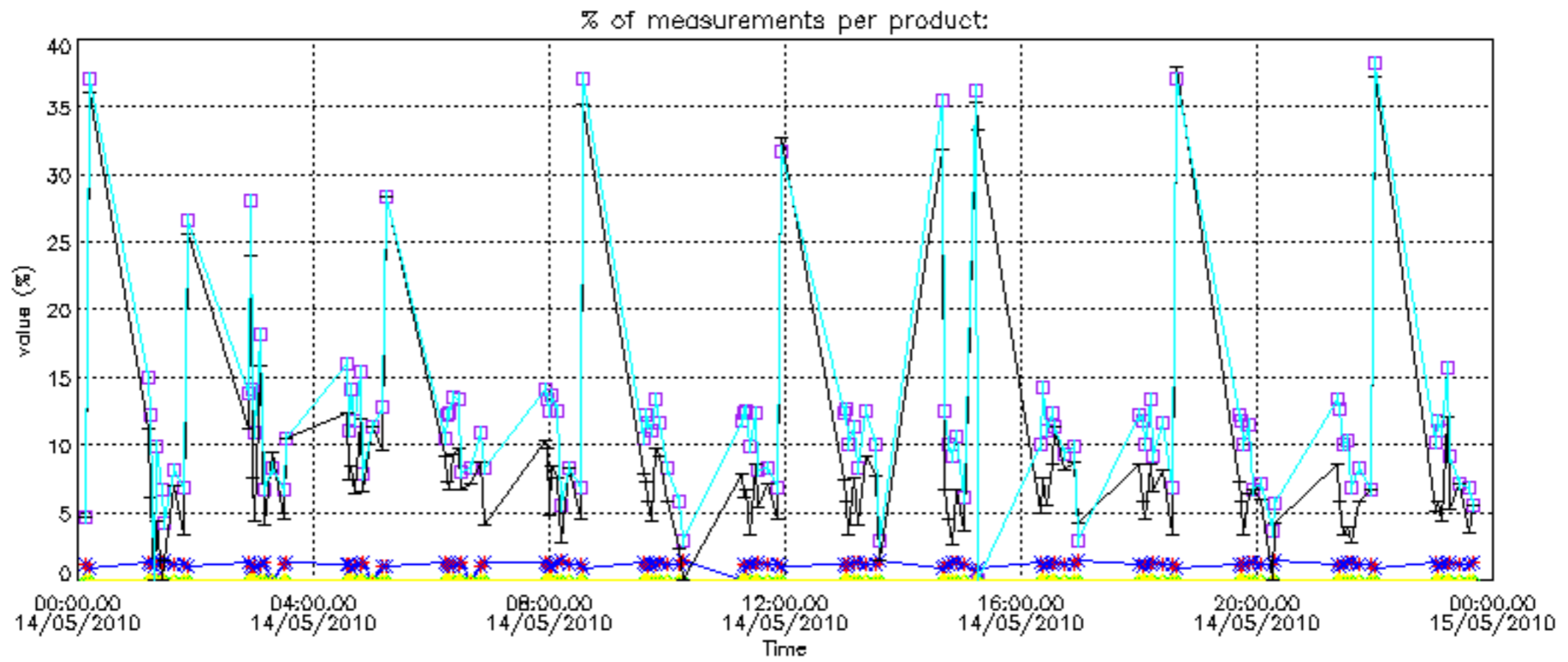
Percentage of flagged data per NO2 profile



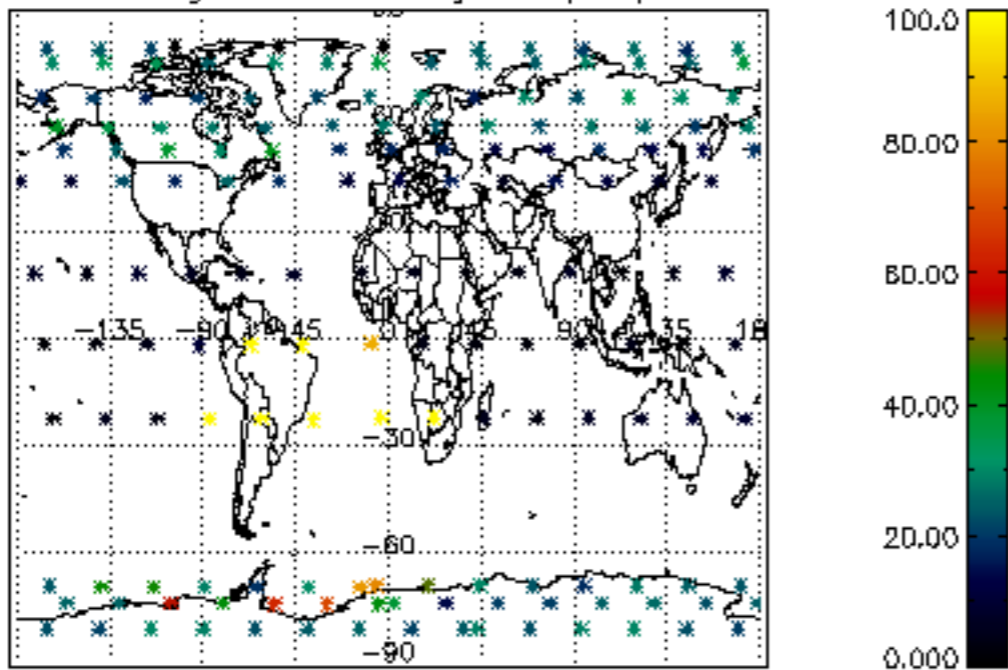
Percentage of flagged data per NO3 profile



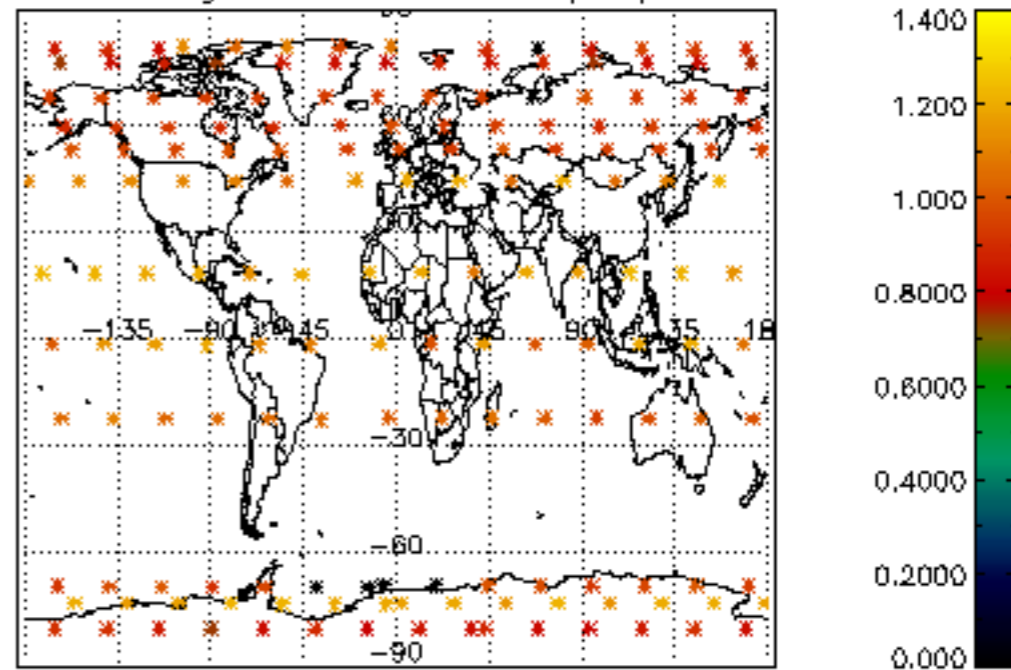




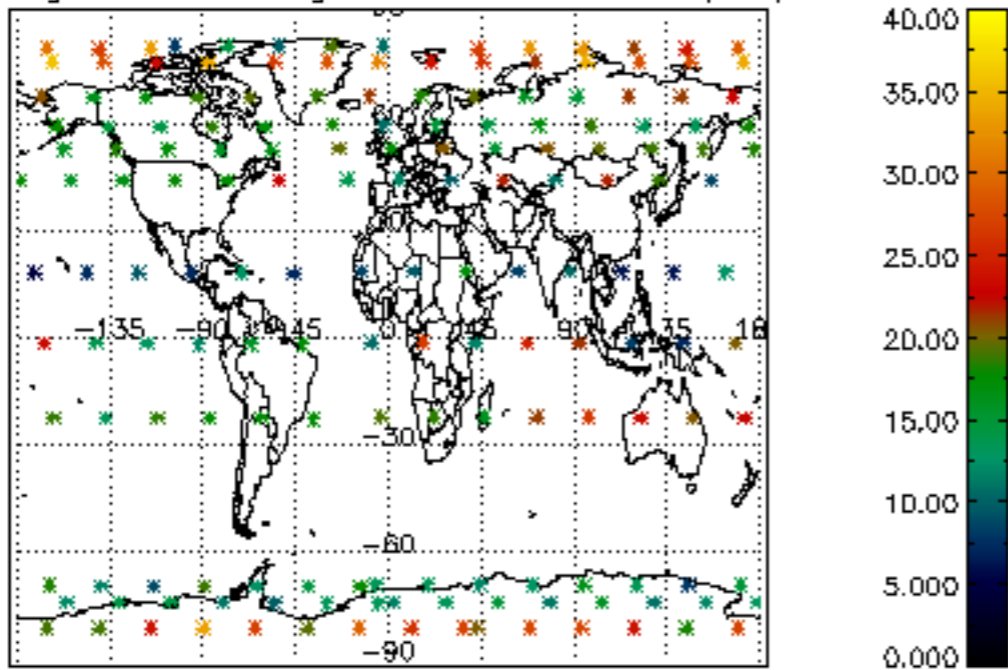
Percentage of cosmic ray hits per profile



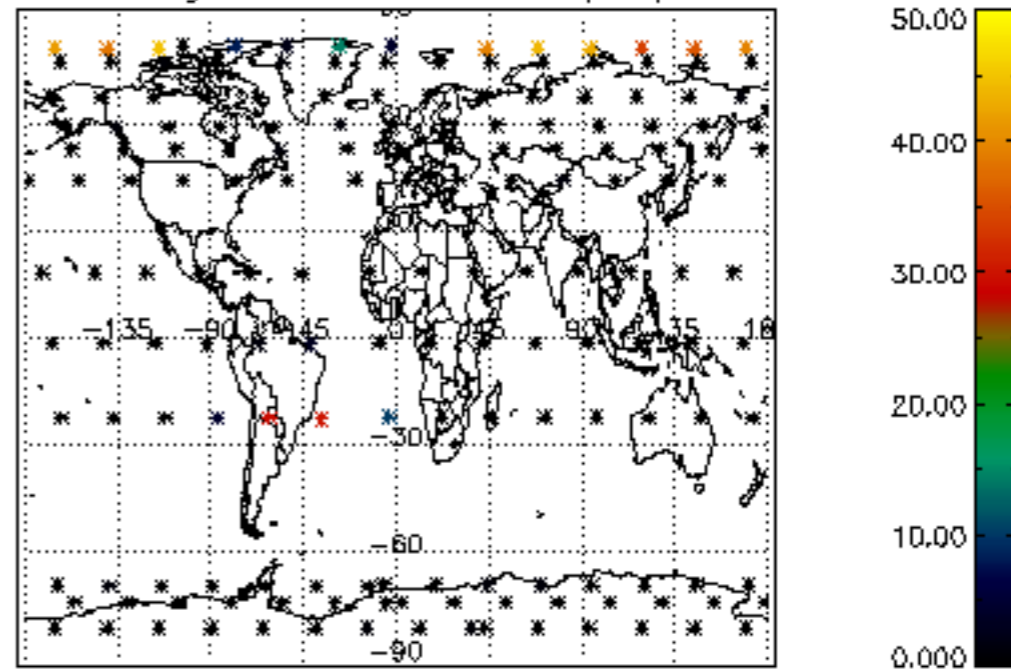
Percentage of datation errors per profile



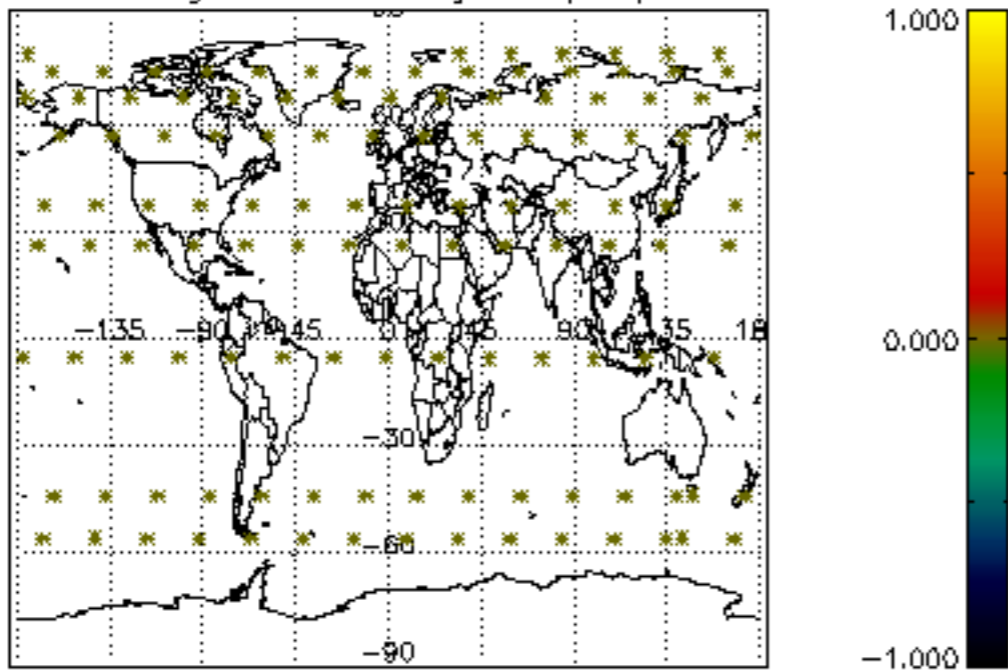
Percentage of star falling outside central band per profile



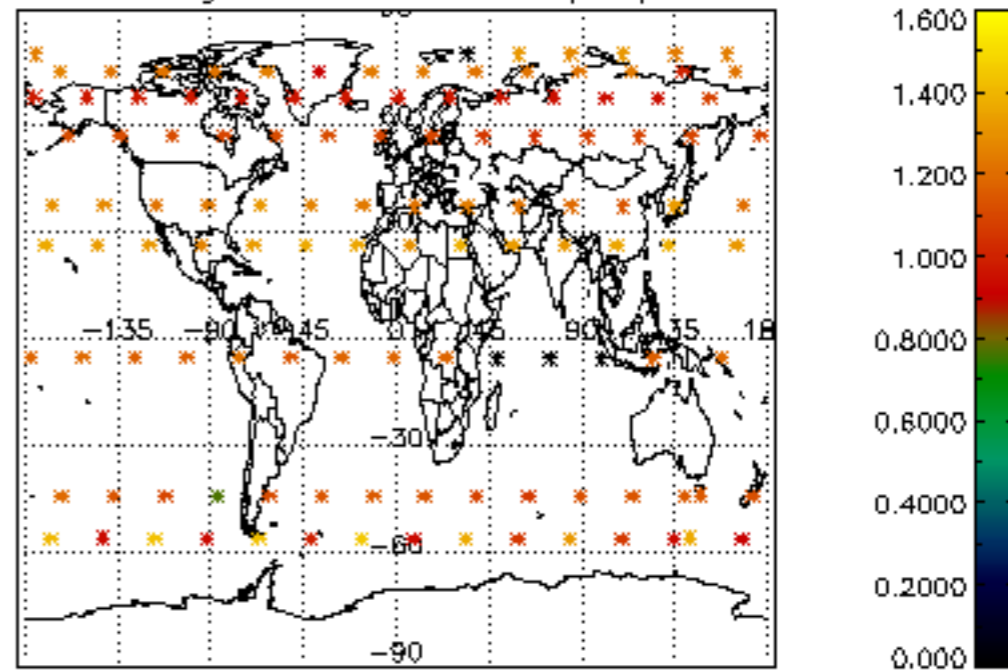
Percentage of saturation errors per profile



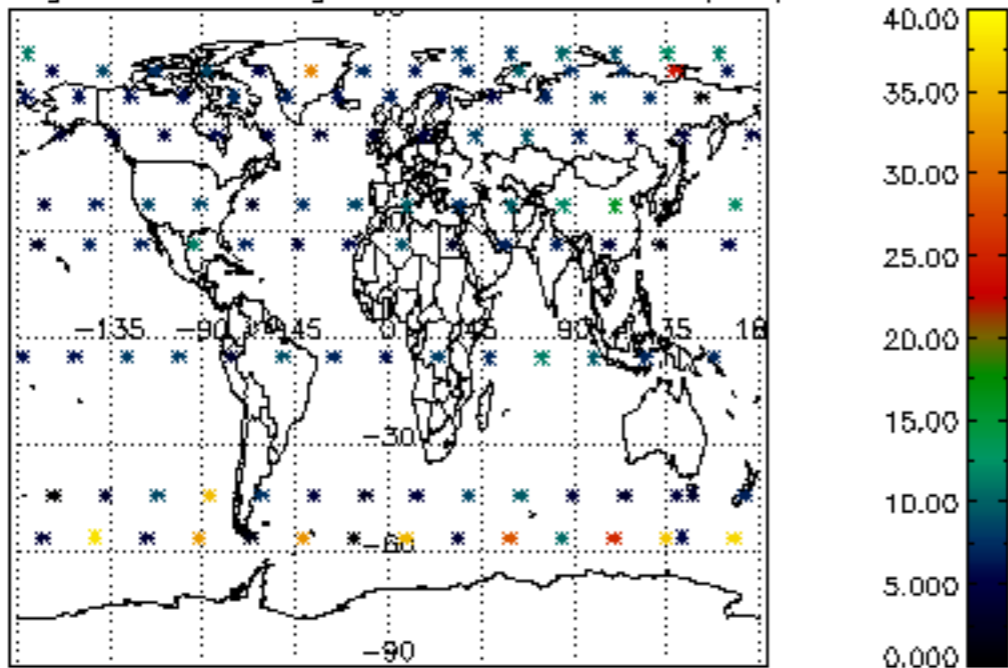
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

