

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	22APR2013 19:35:50
Data source version	GOMOS/6.01
Start time of products	15-05-2007 (15MAY2007 00:00:00)
Stop time of products	16-05-2007 (16MAY2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	255
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

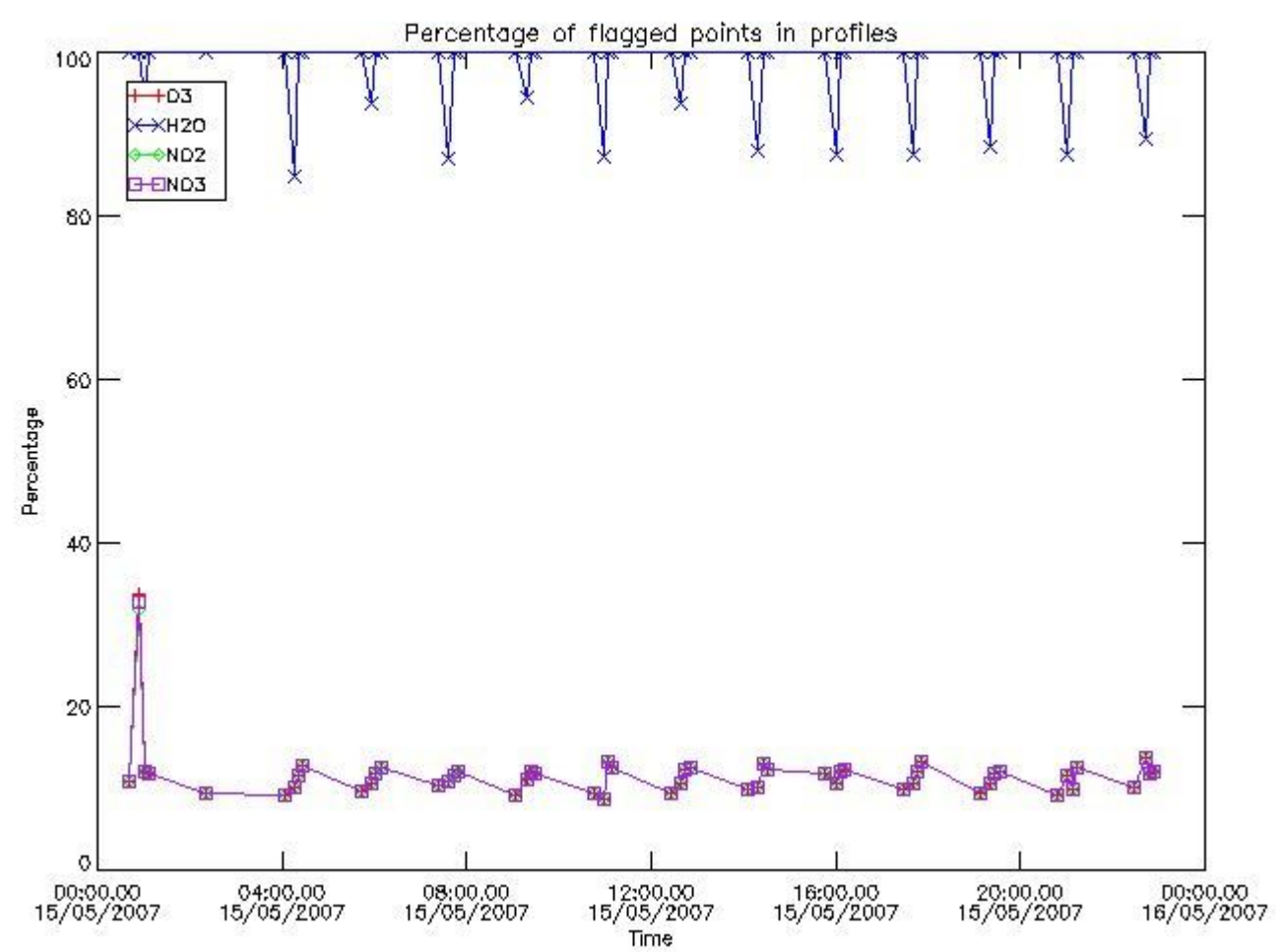
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070515_000258_000000552058_00102_27210_0061.N1	15-MAY-2007 00:02:58	Bright	55.000	180	27Gam Boo	3.0400	8000.0	110	27210	No
2	GOM_NL__2PRFIN20070515_001145_000000412058_00102_27210_0062.N1	15-MAY-2007 00:11:45	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	27210	No
3	GOM_NL__2PRFIN20070515_002241_000000562058_00102_27210_0063.N1	15-MAY-2007 00:22:41	Bright	55.500	89	5Alp Cep	2.4510	8000.0	111	27210	No
4	GOM_NL__2PRFIN20070515_002606_000000362058_00102_27210_0064.N1	15-MAY-2007 00:26:06	Bright	36.000	74	11Bet Cas	2.2680	6600.0	72	27210	No
5	GOM_NL__2PRFIN20070515_003619_000000542058_00102_27210_0065.N1	15-MAY-2007 00:36:19	Twilight	54.000	93	53Bet Peg	2.5200	3100.0	108	27210	No
6	GOM_NL__2PRFIN20070515_003922_000000422058_00102_27210_0066.N1	15-MAY-2007 00:39:22	Twilight	41.500	140	88Gam Peg	2.8340	26000.	83	27210	No
7	GOM_NL__2PRFIN20070515_004055_000000522058_00102_27210_0067.N1	15-MAY-2007 00:40:55	Dark	51.500	90	54Alp Peg	2.4870	11000.	103	27210	No
8	GOM_NL__2PRFIN20070515_005428_000000502058_00102_27210_0068.N1	15-MAY-2007 00:54:28	Dark	49.500	18	24Alp PsA	1.1660	9700.0	99	27210	No
9	GOM_NL__2PRFIN20070515_010018_000000422058_00102_27210_0069.N1	15-MAY-2007 01:00:18	Dark	42.000	31	Alp Gru	1.7340	15200.	84	27210	No
10	GOM_NL__2PRFIN20070515_010552_000000442058_00103_27211_0067.N1	15-MAY-2007 01:05:52	Dark	43.500	45	Alp Pav	1.9400	26000.	87	27211	No
11	GOM_NL__2PRFIN20070515_011308_000000432058_00103_27211_0068.N1	15-MAY-2007 01:13:08	Straylight	42.500	141	Bet Ara	2.8400	4600.0	85	27211	No
12	GOM_NL__2PRFIN20070515_011538_000000512058_00103_27211_0069.N1	15-MAY-2007 01:15:38	Straylight	51.000	40	The Sco	1.8590	7100.0	102	27211	No
13	GOM_NL__2PRFIN20070515_011730_000000552058_00103_27211_0070.N1	15-MAY-2007 01:17:30	Straylight	54.500	25	35Lam Sco	1.6200	28000.	109	27211	No
14	GOM_NL__2PRFIN20070515_011955_000000522058_00103_27211_0071.N1	15-MAY-2007 01:19:55	Straylight	52.000	75	26Eps Sco	2.2910	4250.0	104	27211	No
15	GOM_NL__2PRFIN20070515_012303_000000632058_00103_27211_0072.N1	15-MAY-2007 01:23:03	Twilight	62.500	16	21Alp Sco	1.0200	3000.0	125	27211	No
16	GOM_NL__2PRFIN20070515_012543_000000472058_00103_27211_0073.N1	15-MAY-2007 01:25:43	Bright	47.000	97	8Bet1Sco	2.5610	30000.	94	27211	No
17	GOM_NL__2PRFIN20070515_012926_000000402058_00103_27211_0074.N1	15-MAY-2007 01:29:26	Bright	40.000	104	27Bet Lib	2.6140	13100.	80	27211	No
18	GOM_NL__2PRFIN20070515_013452_000000452058_00103_27211_0075.N1	15-MAY-2007 01:34:52	Bright	44.500	102	24Alp Ser	2.6000	4250.0	89	27211	No
19	GOM_NL__2PRFIN20070515_014026_000000392058_00103_27211_0076.N1	15-MAY-2007 01:40:26	Bright	38.500	83		2.3780	11000.	77	27211	No
20	GOM_NL__2PRFIN20070515_014334_000000372058_00103_27211_0077.N1	15-MAY-2007 01:43:34	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	27211	No
21	GOM_NL__2PRFIN20070515_015221_000000422058_00103_27211_0078.N1	15-MAY-2007 01:52:21	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	27211	No
22	GOM_NL__2PRFIN20070515_020316_000000442058_00103_27211_0079.N1	15-MAY-2007 02:03:16	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	27211	No
23	GOM_NL__2PRFIN20070515_020642_000000542058_00103_27211_0080.N1	15-MAY-2007 02:06:42	Bright	54.000	74	11Bet Cas	2.2680	6600.0	108	27211	No
24	GOM_NL__2PRFIN20070515_021655_000000542058_00103_27211_0081.N1	15-MAY-2007 02:16:55	Twilight	54.000	93	53Bet Peg	2.5200	3100.0	108	27211	No
25	GOM_NL__2PRFIN20070515_021958_000000432058_00103_27211_0082.N1	15-MAY-2007 02:19:58	Twilight	42.500	140	88Gam Peg	2.8340	26000.	85	27211	No
26	GOM_NL__2PRFIN20070515_022131_000000542058_00103_27211_0083.N1	15-MAY-2007 02:21:31	Dark	54.000	90	54Alp Peg	2.4870	11000.	108	27211	No
27	GOM_NL__2PRFIN20070515_034352_000000562058_00104_27212_0082.N1	15-MAY-2007 03:43:52	Bright	56.000	89	5Alp Cep	2.4510	8000.0	112	27212	No
28	GOM_NL__2PRFIN20070515_034718_000000472058_00104_27212_0083.N1	15-MAY-2007 03:47:18	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	27212	No
29	GOM_NL__2PRFIN20070515_035731_000000632058_00104_27212_0084.N1	15-MAY-2007 03:57:31	Twilight	62.500	93	53Bet Peg	2.5200	3100.0	125	27212	No
30	GOM_NL__2PRFIN20070515_040034_000000422058_00104_27212_0085.N1	15-MAY-2007 04:00:34	Twilight	42.000	140	88Gam Peg	2.8340	26000.	84	27212	No
31	GOM_NL__2PRFIN20070515_040208_000000552058_00104_27212_0086.N1	15-MAY-2007 04:02:08	Dark	55.000	90	54Alp Peg	2.4870	11000.	110	27212	No
32	GOM_NL__2PRFIN20070515_041541_000000502058_00104_27212_0087.N1	15-MAY-2007 04:15:41	Dark	50.000	18	24Alp PsA	1.1660	9700.0	100	27212	No
33	GOM_NL__2PRFIN20070515_042131_000000482058_00104_27212_0088.N1	15-MAY-2007 04:21:31	Dark	48.000	31	Alp Gru	1.7340	15200.	96	27212	No
34	GOM_NL__2PRFIN20070515_042706_000000402058_00105_27213_0093.N1	15-MAY-2007 04:27:06	Dark	40.000	45	Alp Pav	1.9400	26000.	80	27213	No
35	GOM_NL__2PRFIN20070515_043421_000000422058_00105_27213_0094.N1	15-MAY-2007 04:34:21	Straylight	42.000	141	Bet Ara	2.8400	4600.0	84	27213	No
36	GOM_NL__2PRFIN20070515_043652_000000482058_00105_27213_0095.N1	15-MAY-2007 04:36:52	Straylight	48.000	40	The Sco	1.8590	7100.0	96	27213	No
37	GOM_NL__2PRFIN20070515_043843_000000522058_00105_27213_0096.N1	15-MAY-2007 04:38:43	Straylight	51.500	25	35Lam Sco	1.6200	28000.	103	27213	No
38	GOM_NL__2PRFIN20070515_044107_000000522058_00105_27213_0097.N1	15-MAY-2007 04:41:07	Twilight	51.500	75	26Eps Sco	2.2910	4250.0	103	27213	No
39	GOM_NL__2PRFIN20070515_044416_000000582058_00105_27213_0098.N1	15-MAY-2007 04:44:16	Twilight	58.000	16	21Alp Sco	1.0200	3000.0	116	27213	No
40	GOM_NL__2PRFIN20070515_044655_000000472058_00105_27213_0099.N1	15-MAY-2007 04:46:55	Bright	47.000	97	8Bet1Sco	2.5610	30000.	94	27213	No
41	GOM_NL__2PRFIN20070515_045038_000000402058_00105_27213_0100.N1	15-MAY-2007 04:50:38	Bright	39.500	104	27Bet Lib	2.6140	13100.	79	27213	No
42	GOM_NL__2PRFIN20070515_045604_000000452058_00105_27213_0101.N1	15-MAY-2007 04:56:04	Bright	45.000	102	24Alp Ser	2.6000	4250.0	90	27213	No

220	GOM_NL__2PRFIN20070515_204812_000000552058_00114_27222_0328.N1	15-MAY-2007 20:48:12	Dark	55.000	90	54Alp Peg	2.4870	11000.	110	27222	No
221	GOM_NL__2PRFIN20070515_210148_000000482058_00114_27222_0329.N1	15-MAY-2007 21:01:48	Dark	48.000	18	24Alp PsA	1.1660	9700.0	96	27222	No
222	GOM_NL__2PRFIN20070515_210738_000000522058_00114_27222_0330.N1	15-MAY-2007 21:07:38	Dark	51.500	31	Alp Gru	1.7340	15200.	103	27222	No
223	GOM_NL__2PRFIN20070515_211312_000000412058_00115_27223_0301.N1	15-MAY-2007 21:13:12	Dark	41.000	45	Alp Pav	1.9400	26000.	82	27223	No
224	GOM_NL__2PRFIN20070515_212127_000000422058_00115_27223_0302.N1	15-MAY-2007 21:21:27	Straylight	42.000	147	Alp Ara	2.8770	26000.	84	27223	No
225	GOM_NL__2PRFIN20070515_212257_000000502058_00115_27223_0303.N1	15-MAY-2007 21:22:57	Straylight	49.500	40	The Sco	1.8590	7100.0	99	27223	No
226	GOM_NL__2PRFIN20070515_212449_000000552058_00115_27223_0304.N1	15-MAY-2007 21:24:49	Straylight	54.500	25	35Lam Sco	1.6200	28000.	109	27223	No
227	GOM_NL__2PRFIN20070515_212712_000000502058_00115_27223_0305.N1	15-MAY-2007 21:27:12	Twilight	50.000	75	26Eps Sco	2.2910	4250.0	100	27223	No
228	GOM_NL__2PRFIN20070515_213019_000000662058_00115_27223_0306.N1	15-MAY-2007 21:30:19	Twilight	66.000	16	21Alp Sco	1.0200	3000.0	132	27223	No
229	GOM_NL__2PRFIN20070515_213256_000000442058_00115_27223_0307.N1	15-MAY-2007 21:32:56	Bright	43.500	97	8Bet1Sco	2.5610	30000.	87	27223	No
230	GOM_NL__2PRFIN20070515_213638_000000392058_00115_27223_0308.N1	15-MAY-2007 21:36:38	Bright	38.500	104	27Bet Lib	2.6140	13100.	77	27223	No
231	GOM_NL__2PRFIN20070515_214200_000000442058_00115_27223_0309.N1	15-MAY-2007 21:42:00	Bright	44.000	102	24Alp Ser	2.6000	4250.0	88	27223	No
232	GOM_NL__2PRFIN20070515_214735_000000372058_00115_27223_0310.N1	15-MAY-2007 21:47:35	Bright	37.000	83		2.3780	11000.	74	27223	No
233	GOM_NL__2PRFIN20070515_215043_000000372058_00115_27223_0311.N1	15-MAY-2007 21:50:43	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	27223	No
234	GOM_NL__2PRFIN20070515_215926_000000412058_00115_27223_0312.N1	15-MAY-2007 21:59:26	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	27223	No
235	GOM_NL__2PRFIN20070515_221023_000000612058_00115_27223_0313.N1	15-MAY-2007 22:10:23	Bright	60.500	89	5Alp Cep	2.4510	8000.0	121	27223	No
236	GOM_NL__2PRFIN20070515_221353_000000372058_00115_27223_0314.N1	15-MAY-2007 22:13:53	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	27223	No
237	GOM_NL__2PRFIN20070515_222408_000000592058_00115_27223_0315.N1	15-MAY-2007 22:24:08	Twilight	59.000	93	53Bet Peg	2.5200	3100.0	118	27223	No
238	GOM_NL__2PRFIN20070515_222713_000000422058_00115_27223_0316.N1	15-MAY-2007 22:27:13	Twilight	41.500	140	88Gam Peg	2.8340	26000.	83	27223	No
239	GOM_NL__2PRFIN20070515_222849_000000552058_00115_27223_0317.N1	15-MAY-2007 22:28:49	Dark	54.500	90	54Alp Peg	2.4870	11000.	109	27223	No
240	GOM_NL__2PRFIN20070515_224225_000000482058_00115_27223_0318.N1	15-MAY-2007 22:42:25	Dark	48.000	18	24Alp PsA	1.1660	9700.0	96	27223	No
241	GOM_NL__2PRFIN20070515_224815_000000432058_00115_27223_0319.N1	15-MAY-2007 22:48:15	Dark	43.000	31	Alp Gru	1.7340	15200.	86	27223	No
242	GOM_NL__2PRFIN20070515_225349_000000422058_00116_27224_0312.N1	15-MAY-2007 22:53:49	Dark	42.000	45	Alp Pav	1.9400	26000.	84	27224	No
243	GOM_NL__2PRFIN20070515_230203_000000432058_00116_27224_0313.N1	15-MAY-2007 23:02:03	Straylight	42.500	147	Alp Ara	2.8770	26000.	85	27224	No
244	GOM_NL__2PRFIN20070515_230334_000000532058_00116_27224_0314.N1	15-MAY-2007 23:03:34	Straylight	52.500	40	The Sco	1.8590	7100.0	105	27224	No
245	GOM_NL__2PRFIN20070515_230526_000000512058_00116_27224_0315.N1	15-MAY-2007 23:05:26	Straylight	50.500	25	35Lam Sco	1.6200	28000.	101	27224	No
246	GOM_NL__2PRFIN20070515_230748_000000512058_00116_27224_0316.N1	15-MAY-2007 23:07:48	Twilight	51.000	75	26Eps Sco	2.2910	4250.0	102	27224	No
247	GOM_NL__2PRFIN20070515_231055_000000662058_00116_27224_0317.N1	15-MAY-2007 23:10:55	Twilight	66.000	16	21Alp Sco	1.0200	3000.0	132	27224	No
248	GOM_NL__2PRFIN20070515_231332_000000462058_00116_27224_0318.N1	15-MAY-2007 23:13:32	Bright	46.000	97	8Bet1Sco	2.5610	30000.	92	27224	No
249	GOM_NL__2PRFIN20070515_231713_000000402058_00116_27224_0319.N1	15-MAY-2007 23:17:13	Bright	39.500	104	27Bet Lib	2.6140	13100.	79	27224	No
250	GOM_NL__2PRFIN20070515_232235_000000442058_00116_27224_0320.N1	15-MAY-2007 23:22:35	Bright	44.000	102	24Alp Ser	2.6000	4250.0	88	27224	No
251	GOM_NL__2PRFIN20070515_232810_000000372058_00116_27224_0321.N1	15-MAY-2007 23:28:10	Bright	37.000	83		2.3780	11000.	74	27224	No
252	GOM_NL__2PRFIN20070515_233118_000000492058_00116_27224_0322.N1	15-MAY-2007 23:31:18	Bright	49.000	180	27Gam Boo	3.0400	8000.0	98	27224	No
253	GOM_NL__2PRFIN20070515_234002_000000402058_00116_27224_0323.N1	15-MAY-2007 23:40:02	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	27224	No
254	GOM_NL__2PRFIN20070515_235058_000000472058_00116_27224_0324.N1	15-MAY-2007 23:50:58	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	27224	No
255	GOM_NL__2PRFIN20070515_235429_000000552058_00116_27224_0325.N1	15-MAY-2007 23:54:29	Bright	55.000	74	11Bet Cas	2.2680	6600.0	110	27224	No

3. Quality information per product

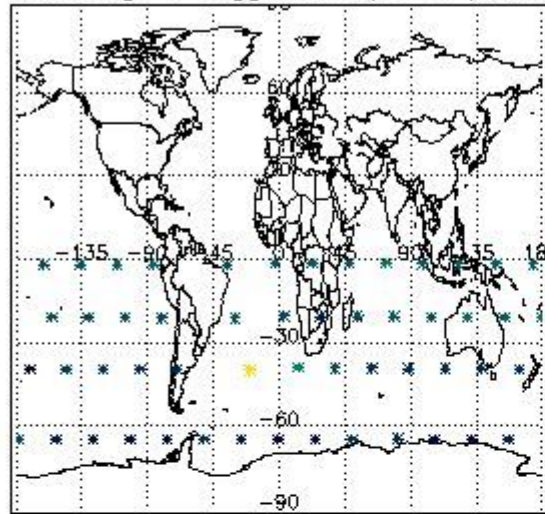
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

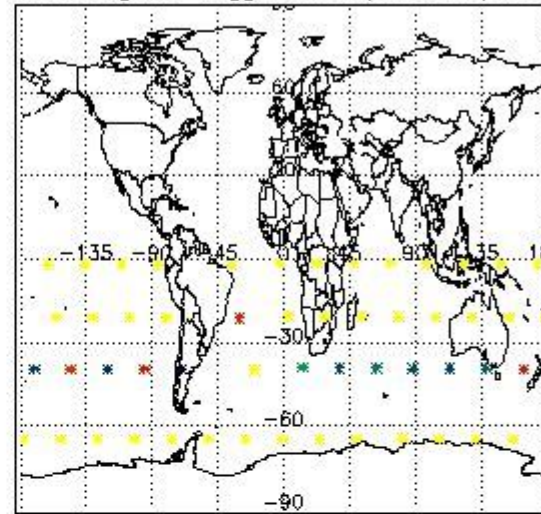


3.2 Plot quality information per product (world map)

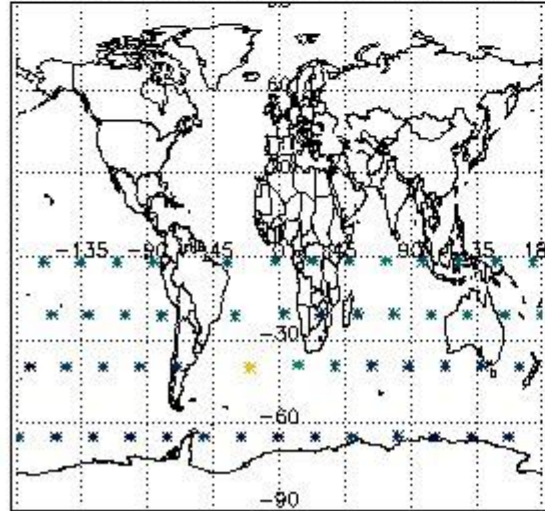
Percentage of flagged data per O3 profile



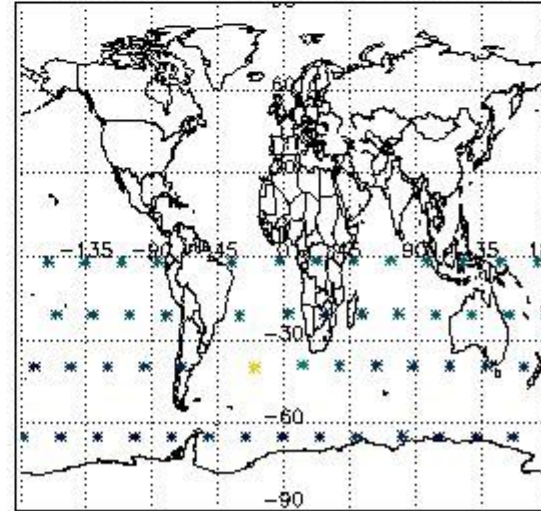
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

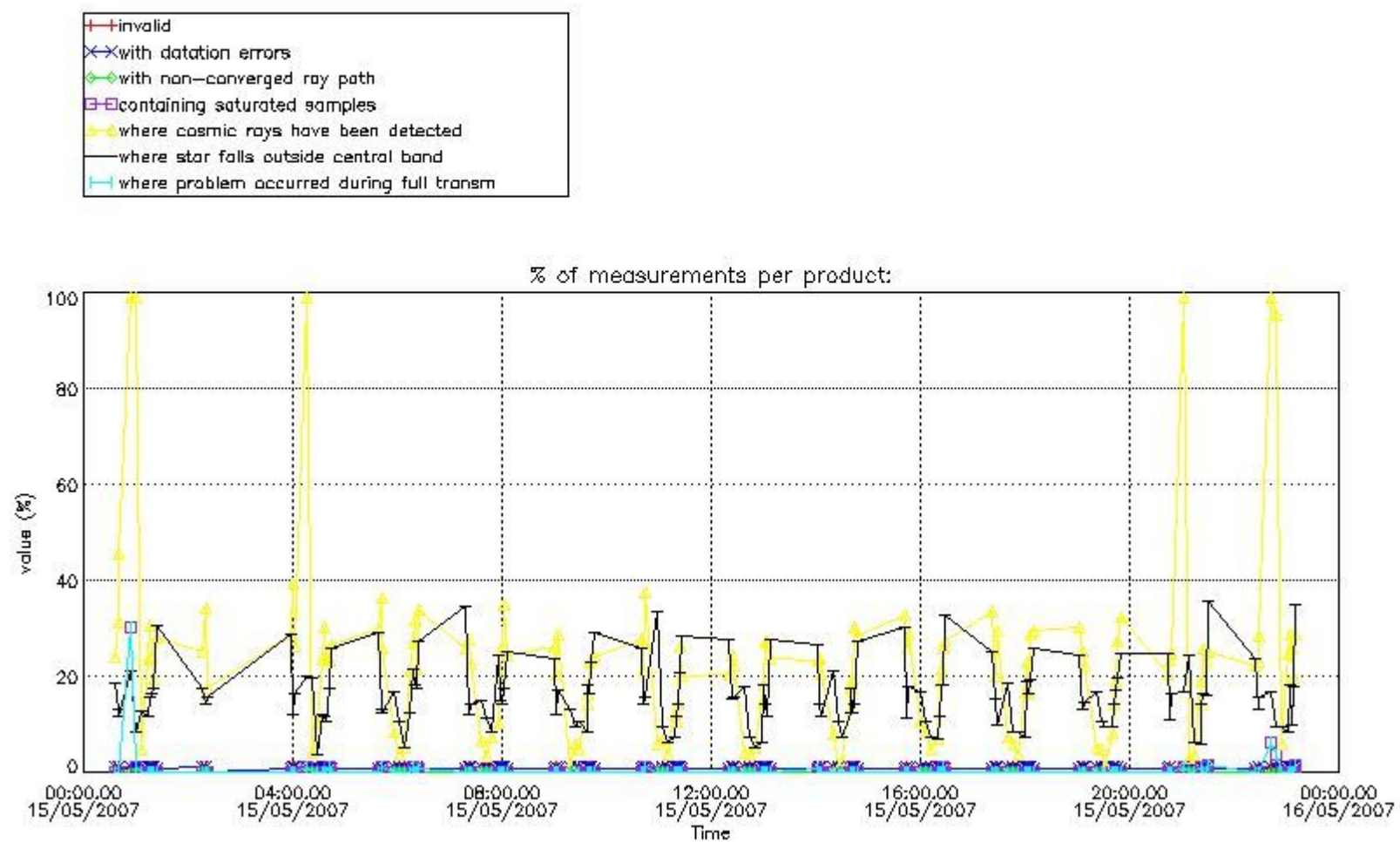


4. Level 1 quality information per product

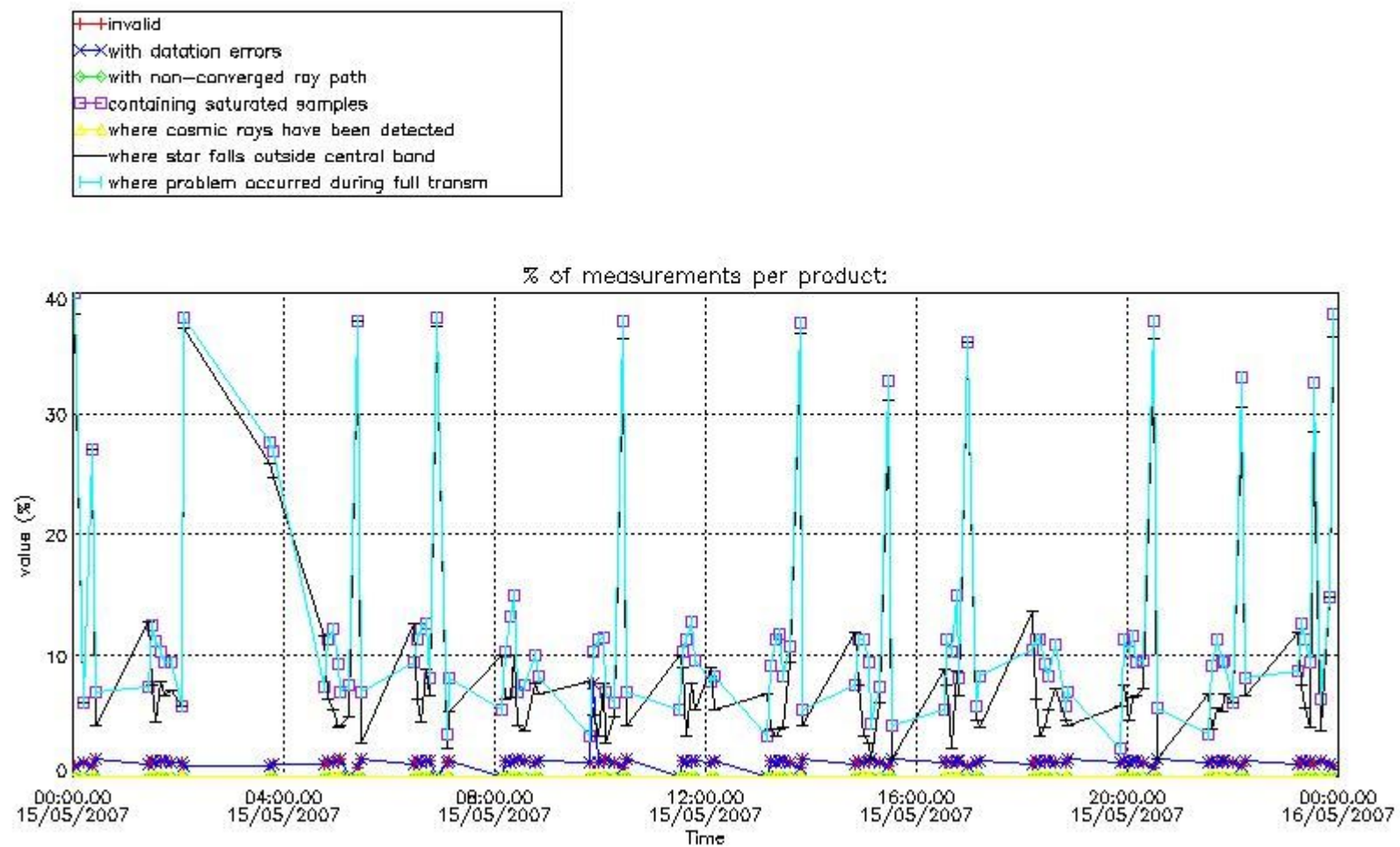
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

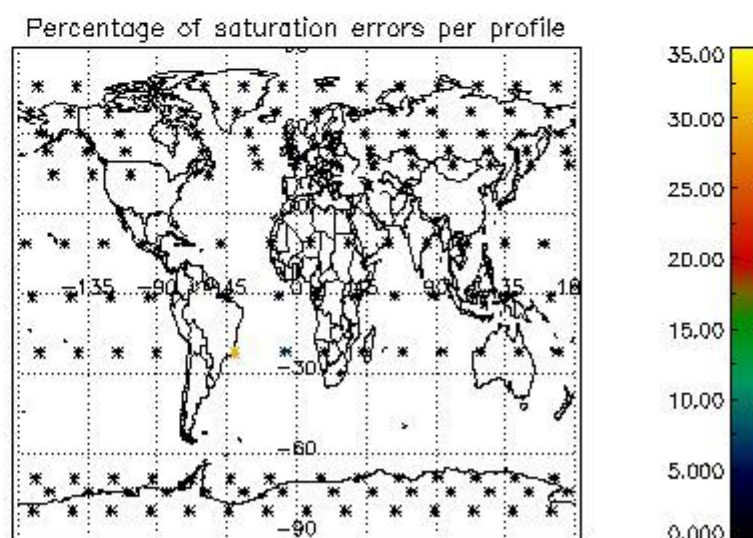
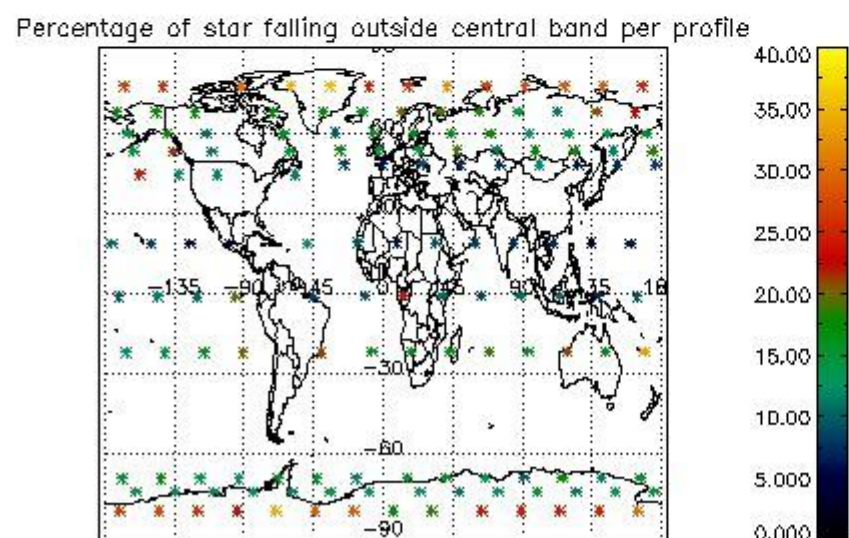
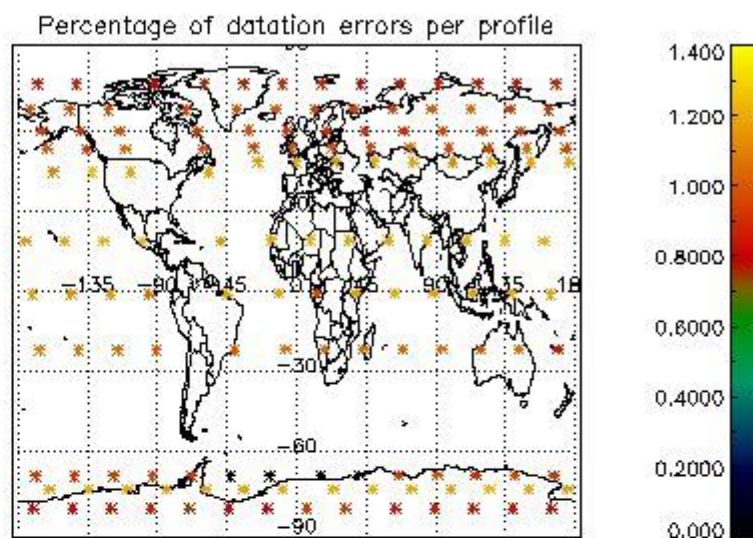
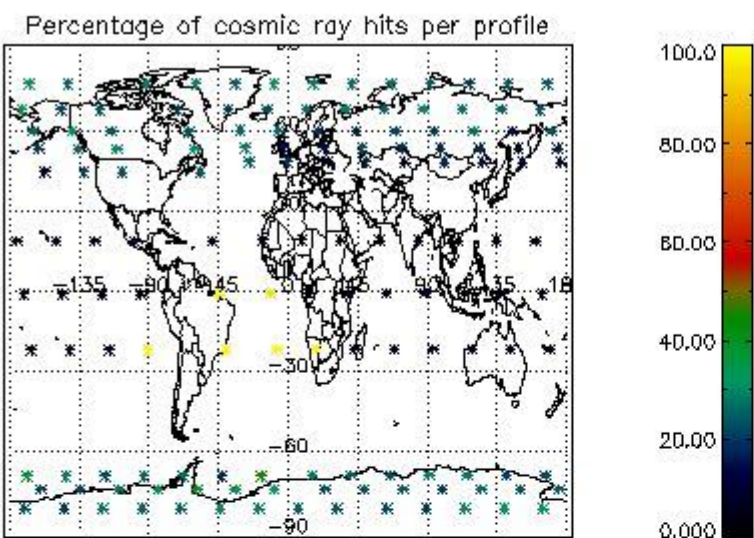


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

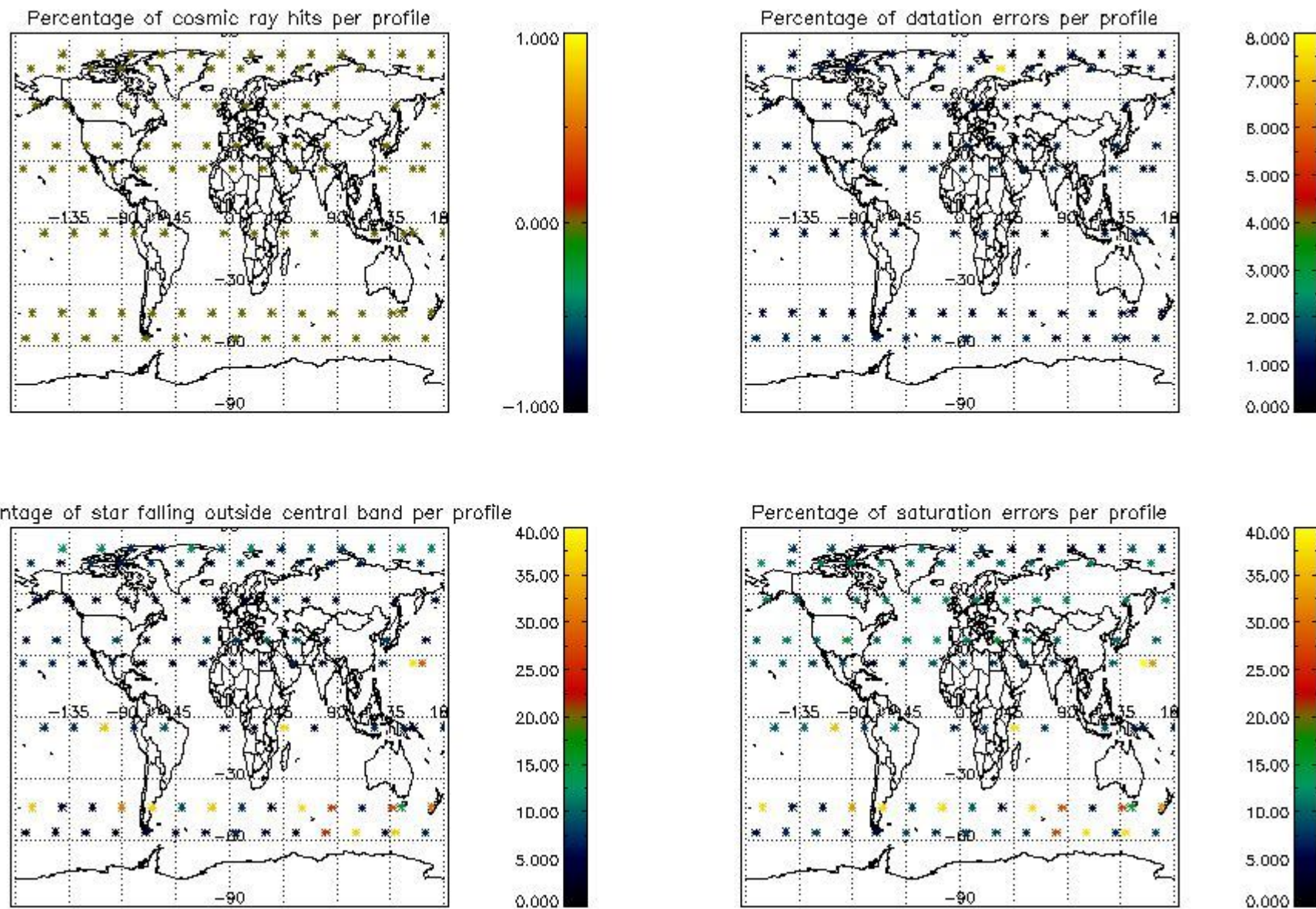


4.2 Plot quality information per product coming from level 1b processing (world map)

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

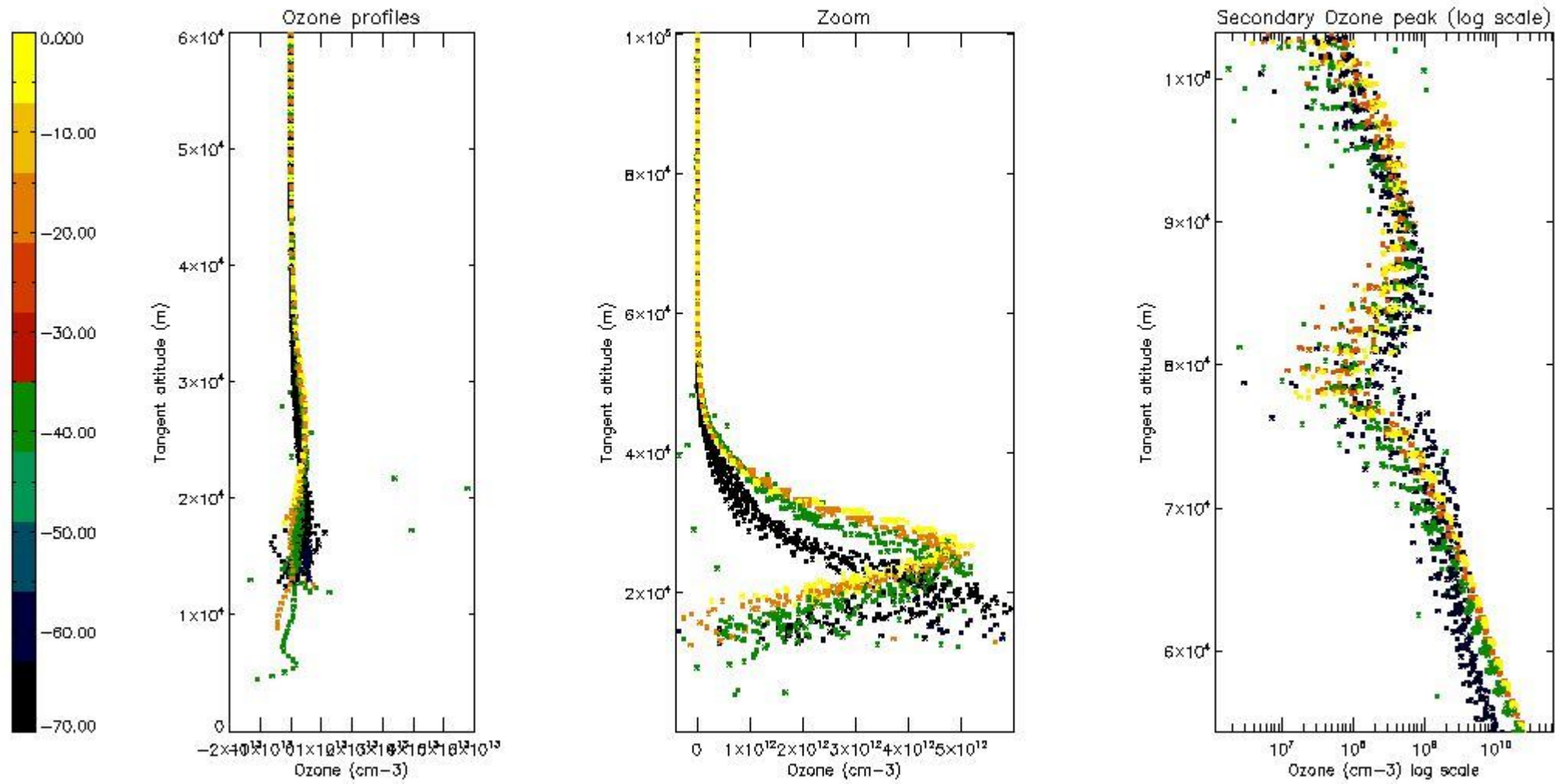
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	21
STD < 20	14

STD < 10	12
STD < 5	8

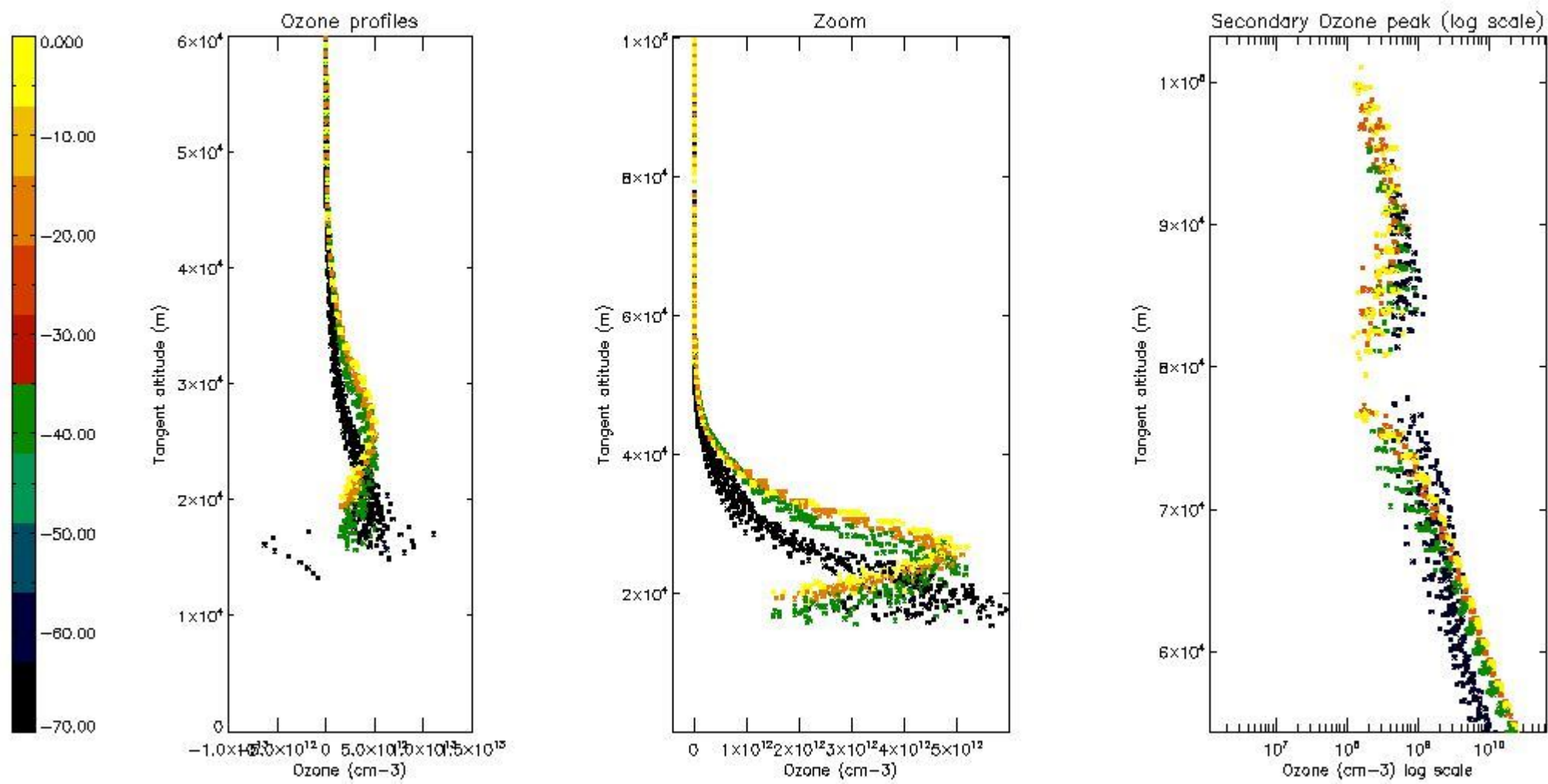
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



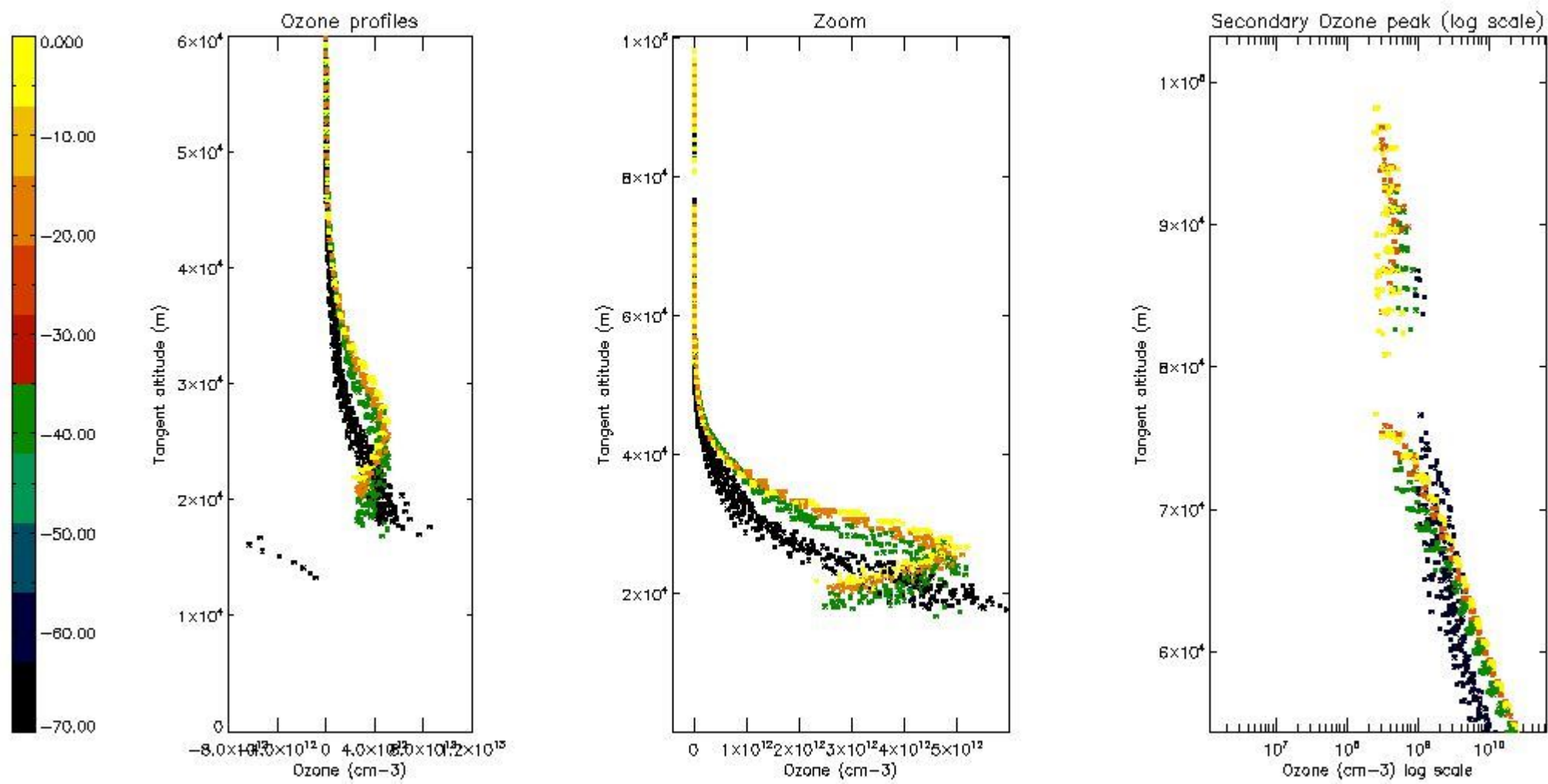
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



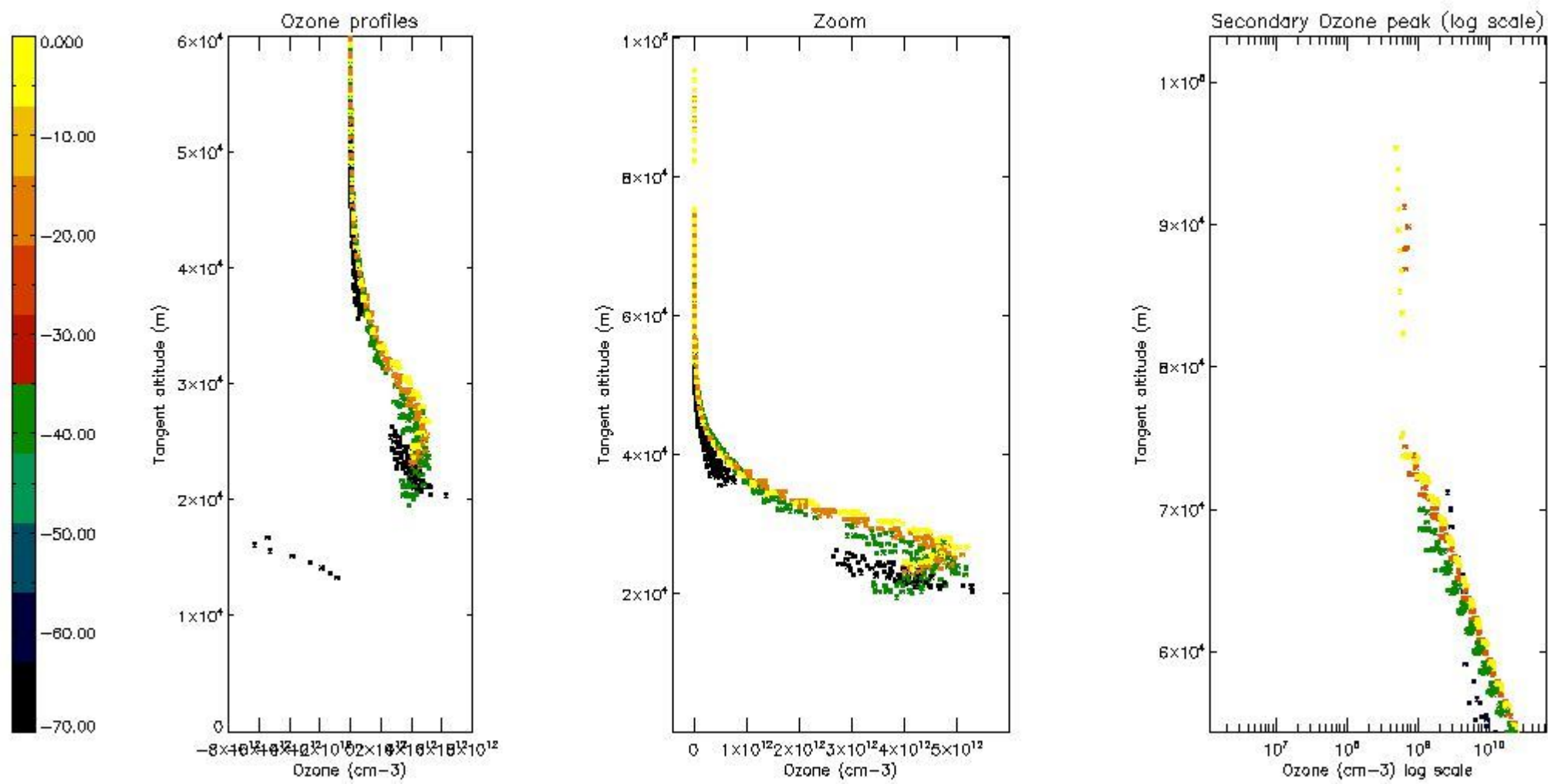
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



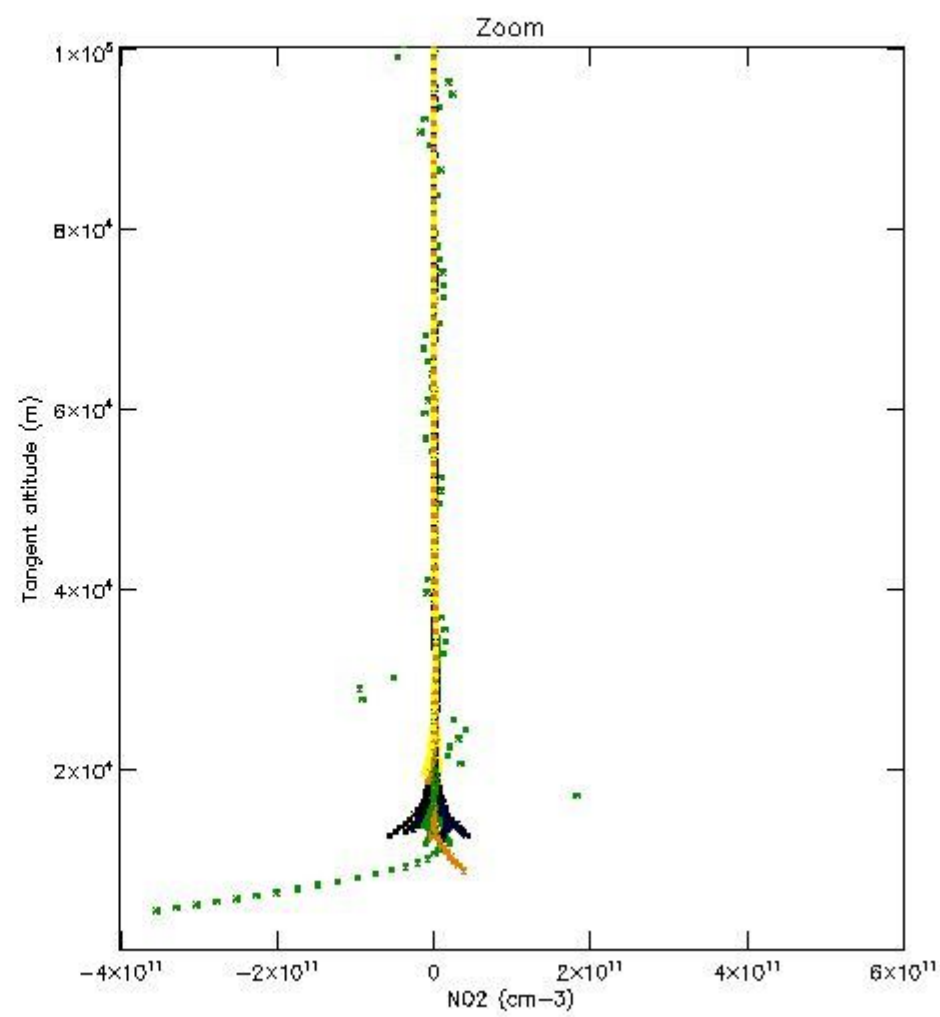
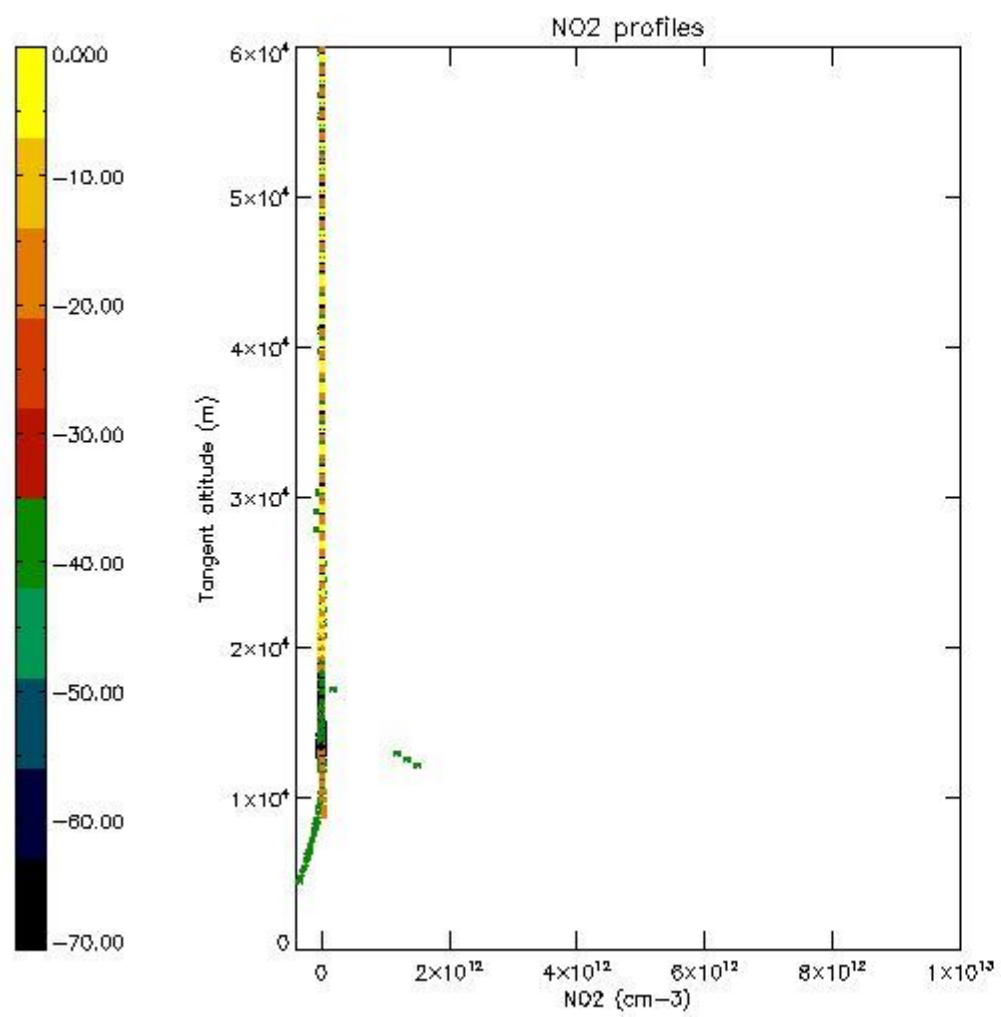
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



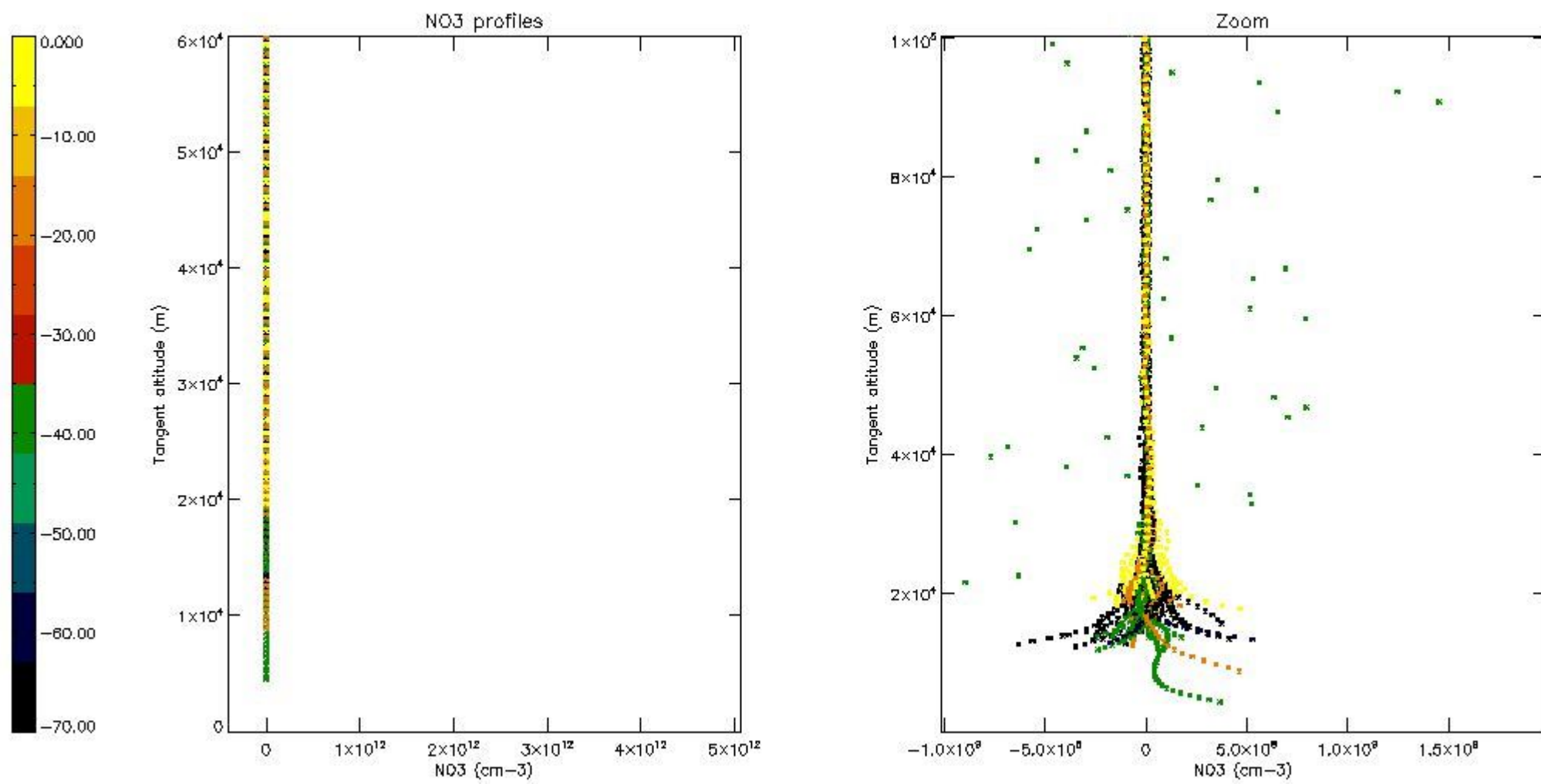
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



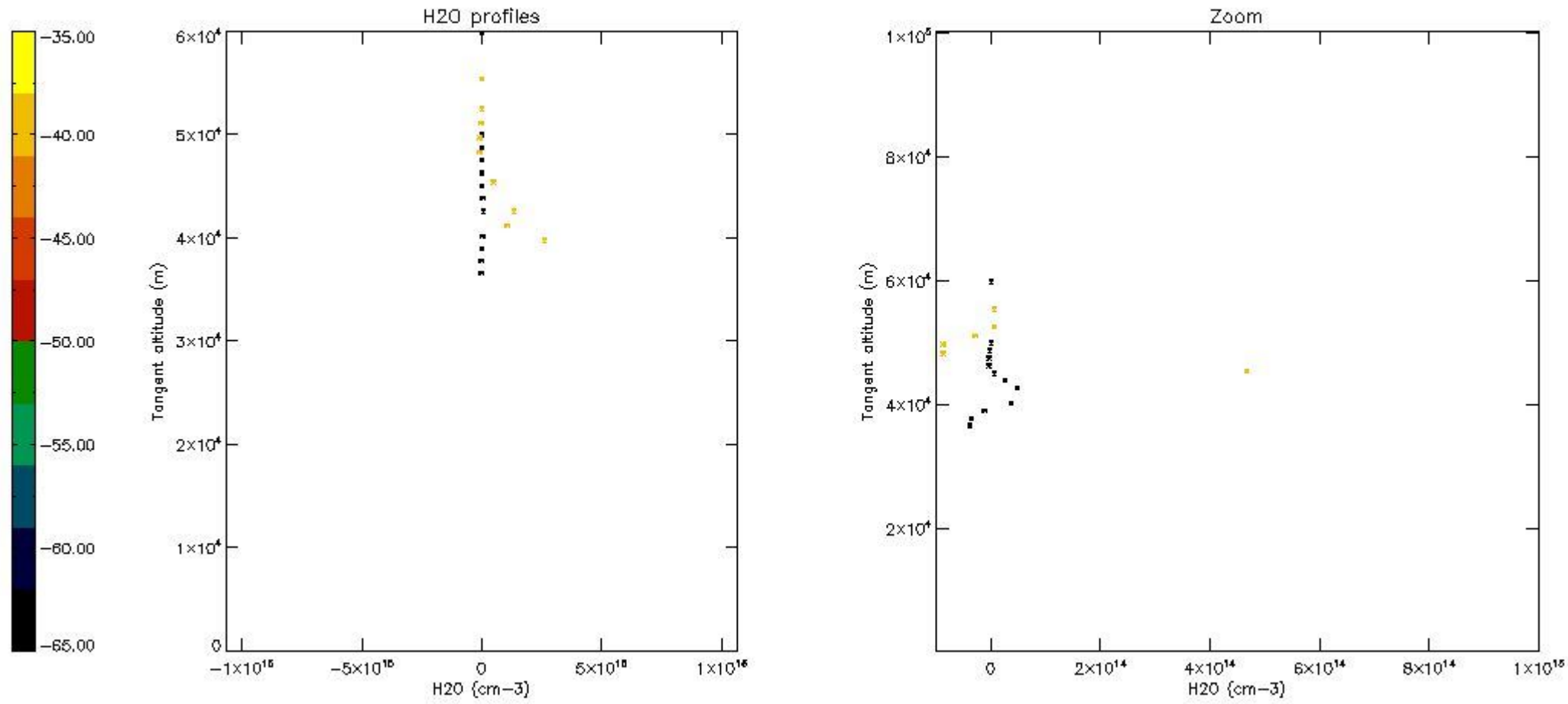
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	15-MAY-2007 00:02:58
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-MAY-2007 00:02:58
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-MAY-2007 00:02:58

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](#)

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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	22APR2013 19:35:50
Data source version	GOMOS/6.01
Start time of products	15-05-2007 (15MAY2007 00:00:00)
Stop time of products	16-05-2007 (16MAY2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	255
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

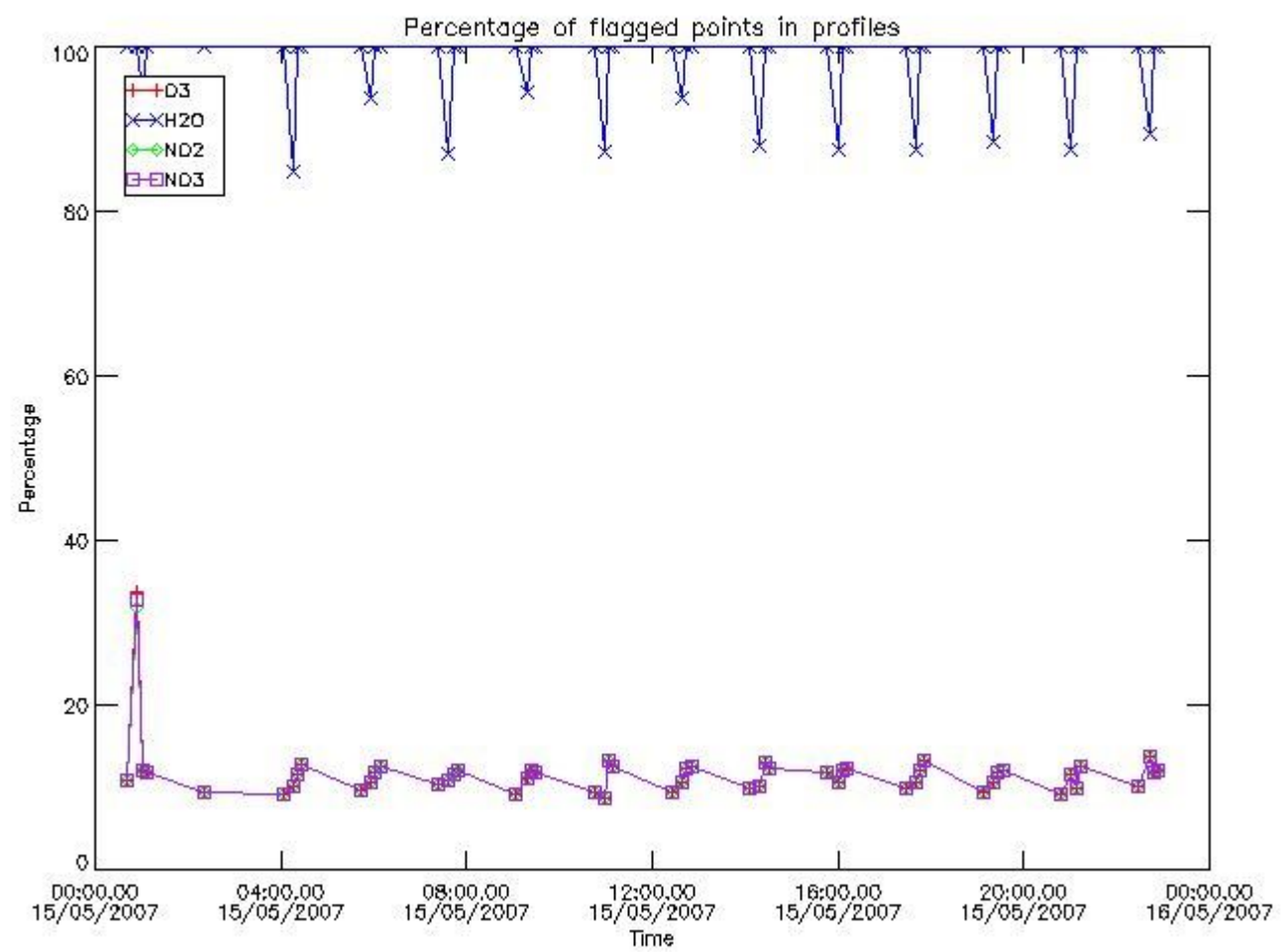
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070515_000258_000000552058_00102_27210_0061.N1	15-MAY-2007 00:02:58	Bright	55.000	180	27Gam Boo	3.0400	8000.0	110	27210	No
2	GOM_NL__2PRFIN20070515_001145_000000412058_00102_27210_0062.N1	15-MAY-2007 00:11:45	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	27210	No
3	GOM_NL__2PRFIN20070515_002241_000000562058_00102_27210_0063.N1	15-MAY-2007 00:22:41	Bright	55.500	89	5Alp Cep	2.4510	8000.0	111	27210	No
4	GOM_NL__2PRFIN20070515_002606_000000362058_00102_27210_0064.N1	15-MAY-2007 00:26:06	Bright	36.000	74	11Bet Cas	2.2680	6600.0	72	27210	No
5	GOM_NL__2PRFIN20070515_003619_000000542058_00102_27210_0065.N1	15-MAY-2007 00:36:19	Twilight	54.000	93	53Bet Peg	2.5200	3100.0	108	27210	No
6	GOM_NL__2PRFIN20070515_003922_000000422058_00102_27210_0066.N1	15-MAY-2007 00:39:22	Twilight	41.500	140	88Gam Peg	2.8340	26000.	83	27210	No
7	GOM_NL__2PRFIN20070515_004055_000000522058_00102_27210_0067.N1	15-MAY-2007 00:40:55	Dark	51.500	90	54Alp Peg	2.4870	11000.	103	27210	No
8	GOM_NL__2PRFIN20070515_005428_000000502058_00102_27210_0068.N1	15-MAY-2007 00:54:28	Dark	49.500	18	24Alp PsA	1.1660	9700.0	99	27210	No
9	GOM_NL__2PRFIN20070515_010018_000000422058_00102_27210_0069.N1	15-MAY-2007 01:00:18	Dark	42.000	31	Alp Gru	1.7340	15200.	84	27210	No
10	GOM_NL__2PRFIN20070515_010552_000000442058_00103_27211_0067.N1	15-MAY-2007 01:05:52	Dark	43.500	45	Alp Pav	1.9400	26000.	87	27211	No
11	GOM_NL__2PRFIN20070515_011308_000000432058_00103_27211_0068.N1	15-MAY-2007 01:13:08	Straylight	42.500	141	Bet Ara	2.8400	4600.0	85	27211	No
12	GOM_NL__2PRFIN20070515_011538_000000512058_00103_27211_0069.N1	15-MAY-2007 01:15:38	Straylight	51.000	40	The Sco	1.8590	7100.0	102	27211	No
13	GOM_NL__2PRFIN20070515_011730_000000552058_00103_27211_0070.N1	15-MAY-2007 01:17:30	Straylight	54.500	25	35Lam Sco	1.6200	28000.	109	27211	No
14	GOM_NL__2PRFIN20070515_011955_000000522058_00103_27211_0071.N1	15-MAY-2007 01:19:55	Straylight	52.000	75	26Eps Sco	2.2910	4250.0	104	27211	No
15	GOM_NL__2PRFIN20070515_012303_000000632058_00103_27211_0072.N1	15-MAY-2007 01:23:03	Twilight	62.500	16	21Alp Sco	1.0200	3000.0	125	27211	No
16	GOM_NL__2PRFIN20070515_012543_000000472058_00103_27211_0073.N1	15-MAY-2007 01:25:43	Bright	47.000	97	8Bet1Sco	2.5610	30000.	94	27211	No
17	GOM_NL__2PRFIN20070515_012926_000000402058_00103_27211_0074.N1	15-MAY-2007 01:29:26	Bright	40.000	104	27Bet Lib	2.6140	13100.	80	27211	No
18	GOM_NL__2PRFIN20070515_013452_000000452058_00103_27211_0075.N1	15-MAY-2007 01:34:52	Bright	44.500	102	24Alp Ser	2.6000	4250.0	89	27211	No
19	GOM_NL__2PRFIN20070515_014026_000000392058_00103_27211_0076.N1	15-MAY-2007 01:40:26	Bright	38.500	83		2.3780	11000.	77	27211	No
20	GOM_NL__2PRFIN20070515_014334_000000372058_00103_27211_0077.N1	15-MAY-2007 01:43:34	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	27211	No
21	GOM_NL__2PRFIN20070515_015221_000000422058_00103_27211_0078.N1	15-MAY-2007 01:52:21	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	27211	No
22	GOM_NL__2PRFIN20070515_020316_000000442058_00103_27211_0079.N1	15-MAY-2007 02:03:16	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	27211	No
23	GOM_NL__2PRFIN20070515_020642_000000542058_00103_27211_0080.N1	15-MAY-2007 02:06:42	Bright	54.000	74	11Bet Cas	2.2680	6600.0	108	27211	No
24	GOM_NL__2PRFIN20070515_021655_000000542058_00103_27211_0081.N1	15-MAY-2007 02:16:55	Twilight	54.000	93	53Bet Peg	2.5200	3100.0	108	27211	No
25	GOM_NL__2PRFIN20070515_021958_000000432058_00103_27211_0082.N1	15-MAY-2007 02:19:58	Twilight	42.500	140	88Gam Peg	2.8340	26000.	85	27211	No
26	GOM_NL__2PRFIN20070515_022131_000000542058_00103_27211_0083.N1	15-MAY-2007 02:21:31	Dark	54.000	90	54Alp Peg	2.4870	11000.	108	27211	No
27	GOM_NL__2PRFIN20070515_034352_000000562058_00104_27212_0082.N1	15-MAY-2007 03:43:52	Bright	56.000	89	5Alp Cep	2.4510	8000.0	112	27212	No
28	GOM_NL__2PRFIN20070515_034718_000000472058_00104_27212_0083.N1	15-MAY-2007 03:47:18	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	27212	No
29	GOM_NL__2PRFIN20070515_035731_000000632058_00104_27212_0084.N1	15-MAY-2007 03:57:31	Twilight	62.500	93	53Bet Peg	2.5200	3100.0	125	27212	No
30	GOM_NL__2PRFIN20070515_040034_000000422058_00104_27212_0085.N1	15-MAY-2007 04:00:34	Twilight	42.000	140	88Gam Peg	2.8340	26000.	84	27212	No
31	GOM_NL__2PRFIN20070515_040208_000000552058_00104_27212_0086.N1	15-MAY-2007 04:02:08	Dark	55.000	90	54Alp Peg	2.4870	11000.	110	27212	No
32	GOM_NL__2PRFIN20070515_041541_000000502058_00104_27212_0087.N1	15-MAY-2007 04:15:41	Dark	50.000	18	24Alp PsA	1.1660	9700.0	100	27212	No
33	GOM_NL__2PRFIN20070515_042131_000000482058_00104_27212_0088.N1	15-MAY-2007 04:21:31	Dark	48.000	31	Alp Gru	1.7340	15200.	96	27212	No
34	GOM_NL__2PRFIN20070515_042706_000000402058_00105_27213_0093.N1	15-MAY-2007 04:27:06	Dark	40.000	45	Alp Pav	1.9400	26000.	80	27213	No
35	GOM_NL__2PRFIN20070515_043421_000000422058_00105_27213_0094.N1	15-MAY-2007 04:34:21	Straylight	42.000	141	Bet Ara	2.8400	4600.0	84	27213	No
36	GOM_NL__2PRFIN20070515_043652_000000482058_00105_27213_0095.N1	15-MAY-2007 04:36:52	Straylight	48.000	40	The Sco	1.8590	7100.0	96	27213	No
37	GOM_NL__2PRFIN20070515_043843_000000522058_00105_27213_0096.N1	15-MAY-2007 04:38:43	Straylight	51.500	25	35Lam Sco	1.6200	28000.	103	27213	No
38	GOM_NL__2PRFIN20070515_044107_000000522058_00105_27213_0097.N1	15-MAY-2007 04:41:07	Twilight	51.500	75	26Eps Sco	2.2910	4250.0	103	27213	No
39	GOM_NL__2PRFIN20070515_044416_000000582058_00105_27213_0098.N1	15-MAY-2007 04:44:16	Twilight	58.000	16	21Alp Sco	1.0200	3000.0	116	27213	No
40	GOM_NL__2PRFIN20070515_044655_000000472058_00105_27213_0099.N1	15-MAY-2007 04:46:55	Bright	47.000	97	8Bet1Sco	2.5610	30000.	94	27213	No
41	GOM_NL__2PRFIN20070515_045038_000000402058_00105_27213_0100.N1	15-MAY-2007 04:50:38	Bright	39.500	104	27Bet Lib	2.6140	13100.	79	27213	No
42	GOM_NL__2PRFIN20070515_045604_000000452058_00105_27213_0101.N1	15-MAY-2007 04:56:04	Bright	45.000	102	24Alp Ser	2.6000	4250.0	90	27213	No

220	GOM_NL__2PRFIN20070515_204812_000000552058_00114_27222_0328.N1	15-MAY-2007 20:48:12	Dark	55.000	90	54Alp Peg	2.4870	11000.	110	27222	No
221	GOM_NL__2PRFIN20070515_210148_000000482058_00114_27222_0329.N1	15-MAY-2007 21:01:48	Dark	48.000	18	24Alp PsA	1.1660	9700.0	96	27222	No
222	GOM_NL__2PRFIN20070515_210738_000000522058_00114_27222_0330.N1	15-MAY-2007 21:07:38	Dark	51.500	31	Alp Gru	1.7340	15200.	103	27222	No
223	GOM_NL__2PRFIN20070515_211312_000000412058_00115_27223_0301.N1	15-MAY-2007 21:13:12	Dark	41.000	45	Alp Pav	1.9400	26000.	82	27223	No
224	GOM_NL__2PRFIN20070515_212127_000000422058_00115_27223_0302.N1	15-MAY-2007 21:21:27	Straylight	42.000	147	Alp Ara	2.8770	26000.	84	27223	No
225	GOM_NL__2PRFIN20070515_212257_000000502058_00115_27223_0303.N1	15-MAY-2007 21:22:57	Straylight	49.500	40	The Sco	1.8590	7100.0	99	27223	No
226	GOM_NL__2PRFIN20070515_212449_000000552058_00115_27223_0304.N1	15-MAY-2007 21:24:49	Straylight	54.500	25	35Lam Sco	1.6200	28000.	109	27223	No
227	GOM_NL__2PRFIN20070515_212712_000000502058_00115_27223_0305.N1	15-MAY-2007 21:27:12	Twilight	50.000	75	26Eps Sco	2.2910	4250.0	100	27223	No
228	GOM_NL__2PRFIN20070515_213019_000000662058_00115_27223_0306.N1	15-MAY-2007 21:30:19	Twilight	66.000	16	21Alp Sco	1.0200	3000.0	132	27223	No
229	GOM_NL__2PRFIN20070515_213256_000000442058_00115_27223_0307.N1	15-MAY-2007 21:32:56	Bright	43.500	97	8Bet1Sco	2.5610	30000.	87	27223	No
230	GOM_NL__2PRFIN20070515_213638_000000392058_00115_27223_0308.N1	15-MAY-2007 21:36:38	Bright	38.500	104	27Bet Lib	2.6140	13100.	77	27223	No
231	GOM_NL__2PRFIN20070515_214200_000000442058_00115_27223_0309.N1	15-MAY-2007 21:42:00	Bright	44.000	102	24Alp Ser	2.6000	4250.0	88	27223	No
232	GOM_NL__2PRFIN20070515_214735_000000372058_00115_27223_0310.N1	15-MAY-2007 21:47:35	Bright	37.000	83		2.3780	11000.	74	27223	No
233	GOM_NL__2PRFIN20070515_215043_000000372058_00115_27223_0311.N1	15-MAY-2007 21:50:43	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	27223	No
234	GOM_NL__2PRFIN20070515_215926_000000412058_00115_27223_0312.N1	15-MAY-2007 21:59:26	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	27223	No
235	GOM_NL__2PRFIN20070515_221023_000000612058_00115_27223_0313.N1	15-MAY-2007 22:10:23	Bright	60.500	89	5Alp Cep	2.4510	8000.0	121	27223	No
236	GOM_NL__2PRFIN20070515_221353_000000372058_00115_27223_0314.N1	15-MAY-2007 22:13:53	Bright	37.000	74	11Bet Cas	2.2680	6600.0	74	27223	No
237	GOM_NL__2PRFIN20070515_222408_000000592058_00115_27223_0315.N1	15-MAY-2007 22:24:08	Twilight	59.000	93	53Bet Peg	2.5200	3100.0	118	27223	No
238	GOM_NL__2PRFIN20070515_222713_000000422058_00115_27223_0316.N1	15-MAY-2007 22:27:13	Twilight	41.500	140	88Gam Peg	2.8340	26000.	83	27223	No
239	GOM_NL__2PRFIN20070515_222849_000000552058_00115_27223_0317.N1	15-MAY-2007 22:28:49	Dark	54.500	90	54Alp Peg	2.4870	11000.	109	27223	No
240	GOM_NL__2PRFIN20070515_224225_000000482058_00115_27223_0318.N1	15-MAY-2007 22:42:25	Dark	48.000	18	24Alp PsA	1.1660	9700.0	96	27223	No
241	GOM_NL__2PRFIN20070515_224815_000000432058_00115_27223_0319.N1	15-MAY-2007 22:48:15	Dark	43.000	31	Alp Gru	1.7340	15200.	86	27223	No
242	GOM_NL__2PRFIN20070515_225349_000000422058_00116_27224_0312.N1	15-MAY-2007 22:53:49	Dark	42.000	45	Alp Pav	1.9400	26000.	84	27224	No
243	GOM_NL__2PRFIN20070515_230203_000000432058_00116_27224_0313.N1	15-MAY-2007 23:02:03	Straylight	42.500	147	Alp Ara	2.8770	26000.	85	27224	No
244	GOM_NL__2PRFIN20070515_230334_000000532058_00116_27224_0314.N1	15-MAY-2007 23:03:34	Straylight	52.500	40	The Sco	1.8590	7100.0	105	27224	No
245	GOM_NL__2PRFIN20070515_230526_000000512058_00116_27224_0315.N1	15-MAY-2007 23:05:26	Straylight	50.500	25	35Lam Sco	1.6200	28000.	101	27224	No
246	GOM_NL__2PRFIN20070515_230748_000000512058_00116_27224_0316.N1	15-MAY-2007 23:07:48	Twilight	51.000	75	26Eps Sco	2.2910	4250.0	102	27224	No
247	GOM_NL__2PRFIN20070515_231055_000000662058_00116_27224_0317.N1	15-MAY-2007 23:10:55	Twilight	66.000	16	21Alp Sco	1.0200	3000.0	132	27224	No
248	GOM_NL__2PRFIN20070515_231332_000000462058_00116_27224_0318.N1	15-MAY-2007 23:13:32	Bright	46.000	97	8Bet1Sco	2.5610	30000.	92	27224	No
249	GOM_NL__2PRFIN20070515_231713_000000402058_00116_27224_0319.N1	15-MAY-2007 23:17:13	Bright	39.500	104	27Bet Lib	2.6140	13100.	79	27224	No
250	GOM_NL__2PRFIN20070515_232235_000000442058_00116_27224_0320.N1	15-MAY-2007 23:22:35	Bright	44.000	102	24Alp Ser	2.6000	4250.0	88	27224	No
251	GOM_NL__2PRFIN20070515_232810_000000372058_00116_27224_0321.N1	15-MAY-2007 23:28:10	Bright	37.000	83		2.3780	11000.	74	27224	No
252	GOM_NL__2PRFIN20070515_233118_000000492058_00116_27224_0322.N1	15-MAY-2007 23:31:18	Bright	49.000	180	27Gam Boo	3.0400	8000.0	98	27224	No
253	GOM_NL__2PRFIN20070515_234002_000000402058_00116_27224_0323.N1	15-MAY-2007 23:40:02	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	27224	No
254	GOM_NL__2PRFIN20070515_235058_000000472058_00116_27224_0324.N1	15-MAY-2007 23:50:58	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	27224	No
255	GOM_NL__2PRFIN20070515_235429_000000552058_00116_27224_0325.N1	15-MAY-2007 23:54:29	Bright	55.000	74	11Bet Cas	2.2680	6600.0	110	27224	No

3. Quality information per product

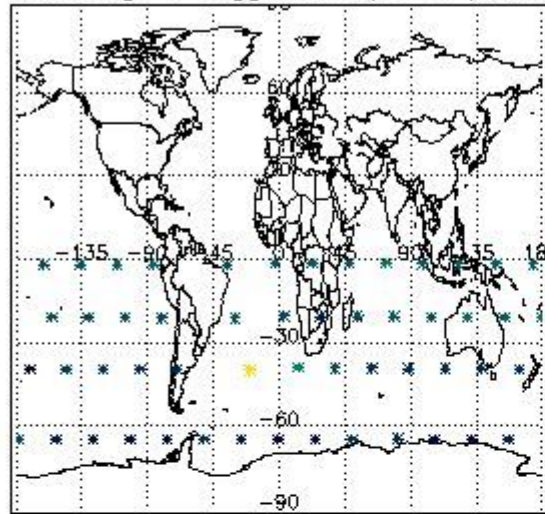
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

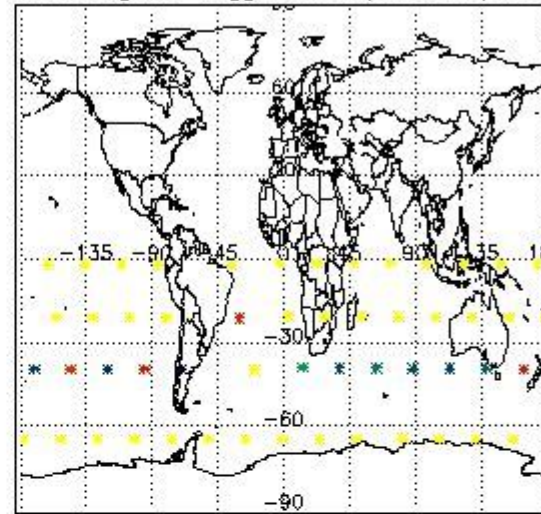


3.2 Plot quality information per product (world map)

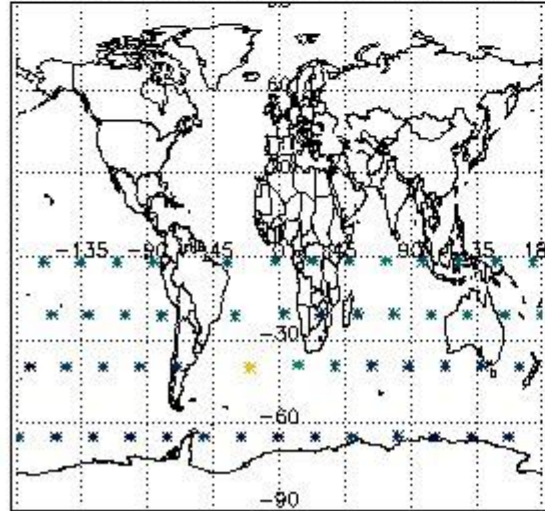
Percentage of flagged data per O3 profile



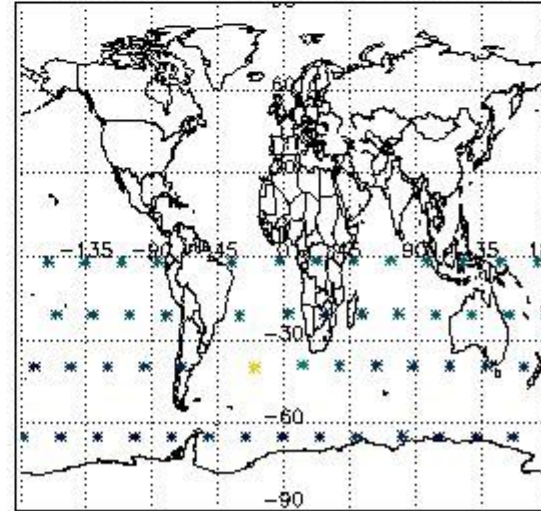
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

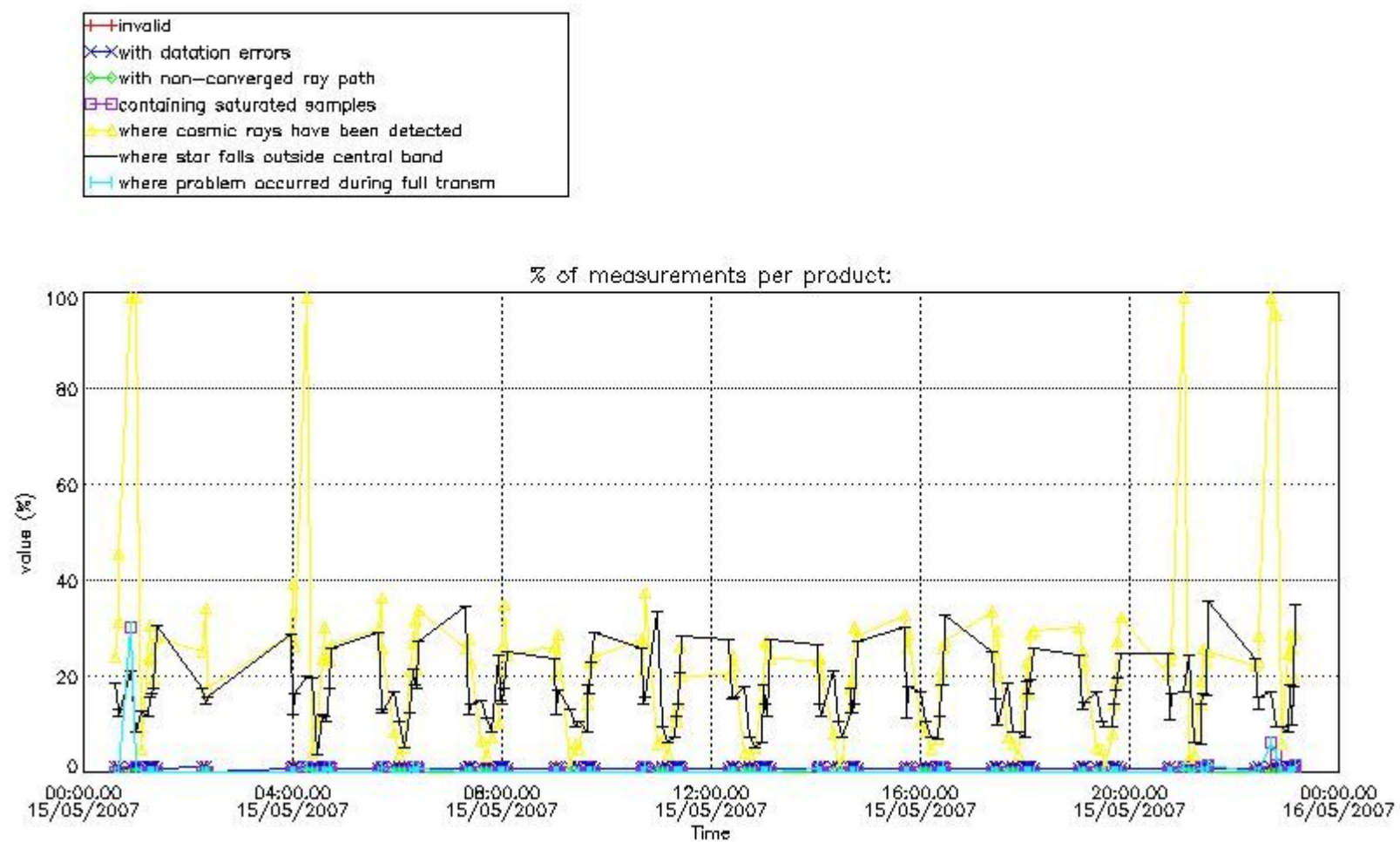


4. Level 1 quality information per product

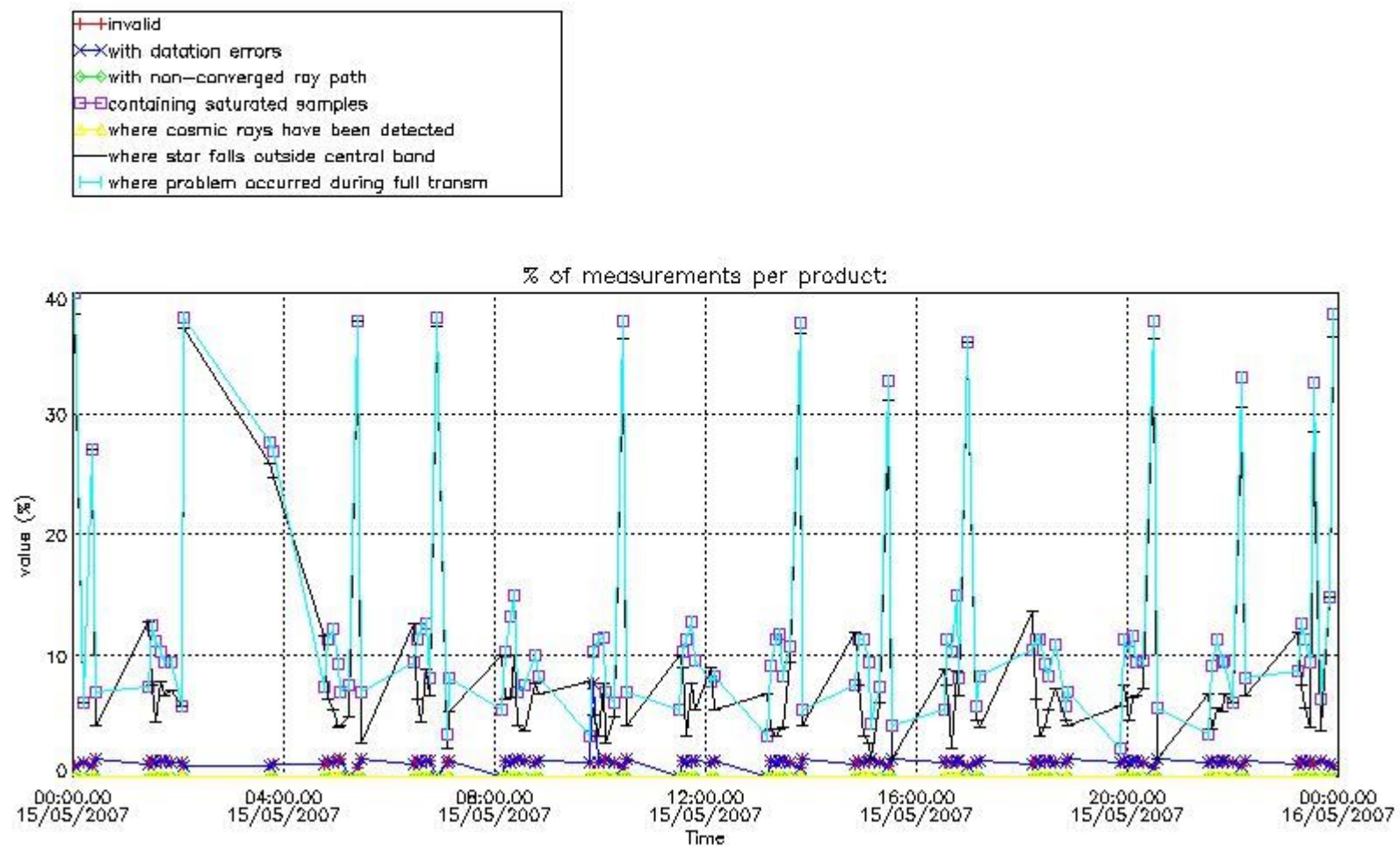
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

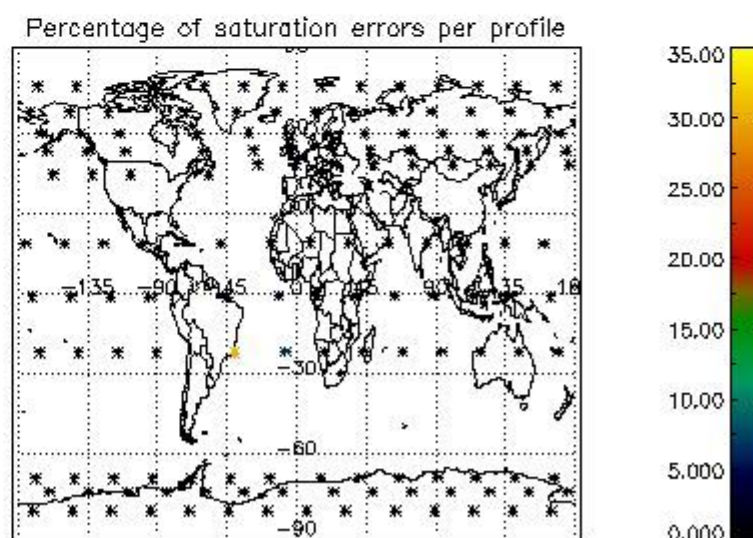
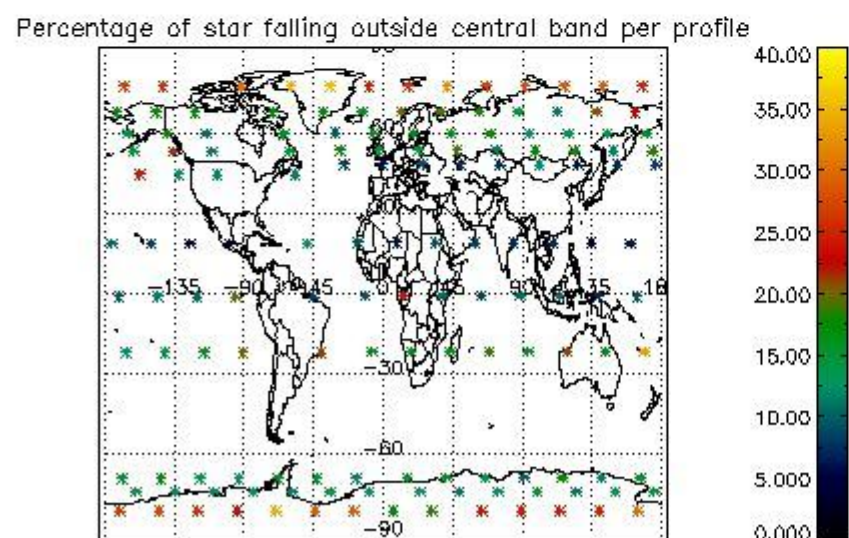
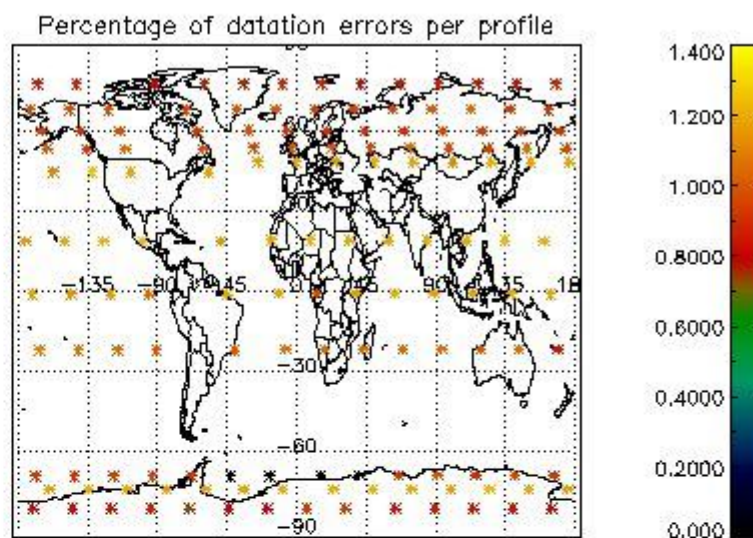
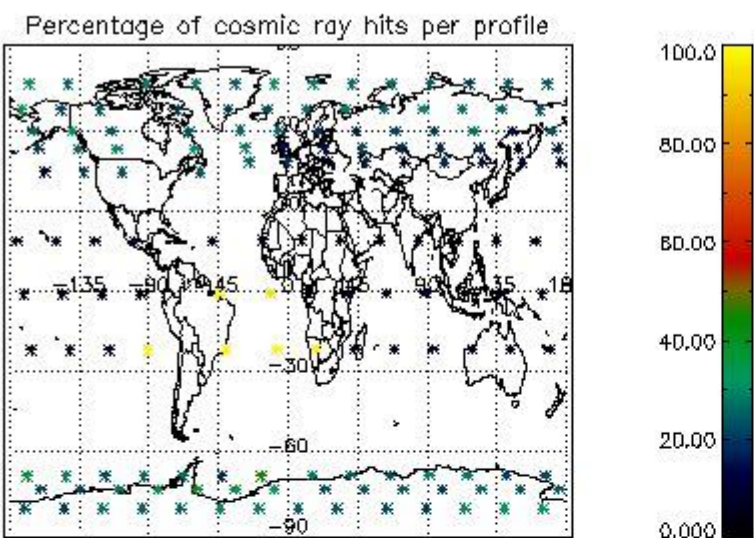


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

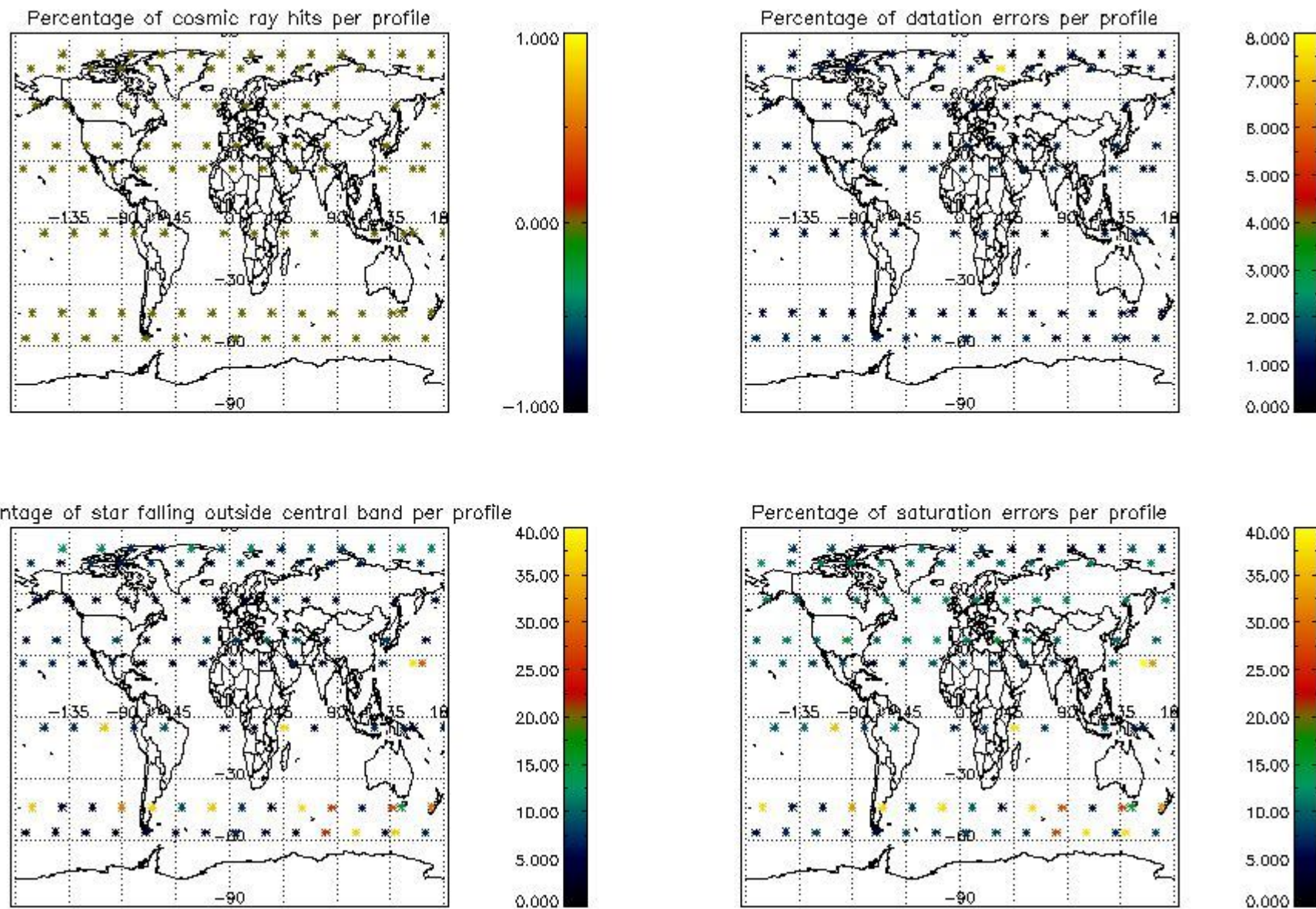


4.2 Plot quality information per product coming from level 1b processing (world map)

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

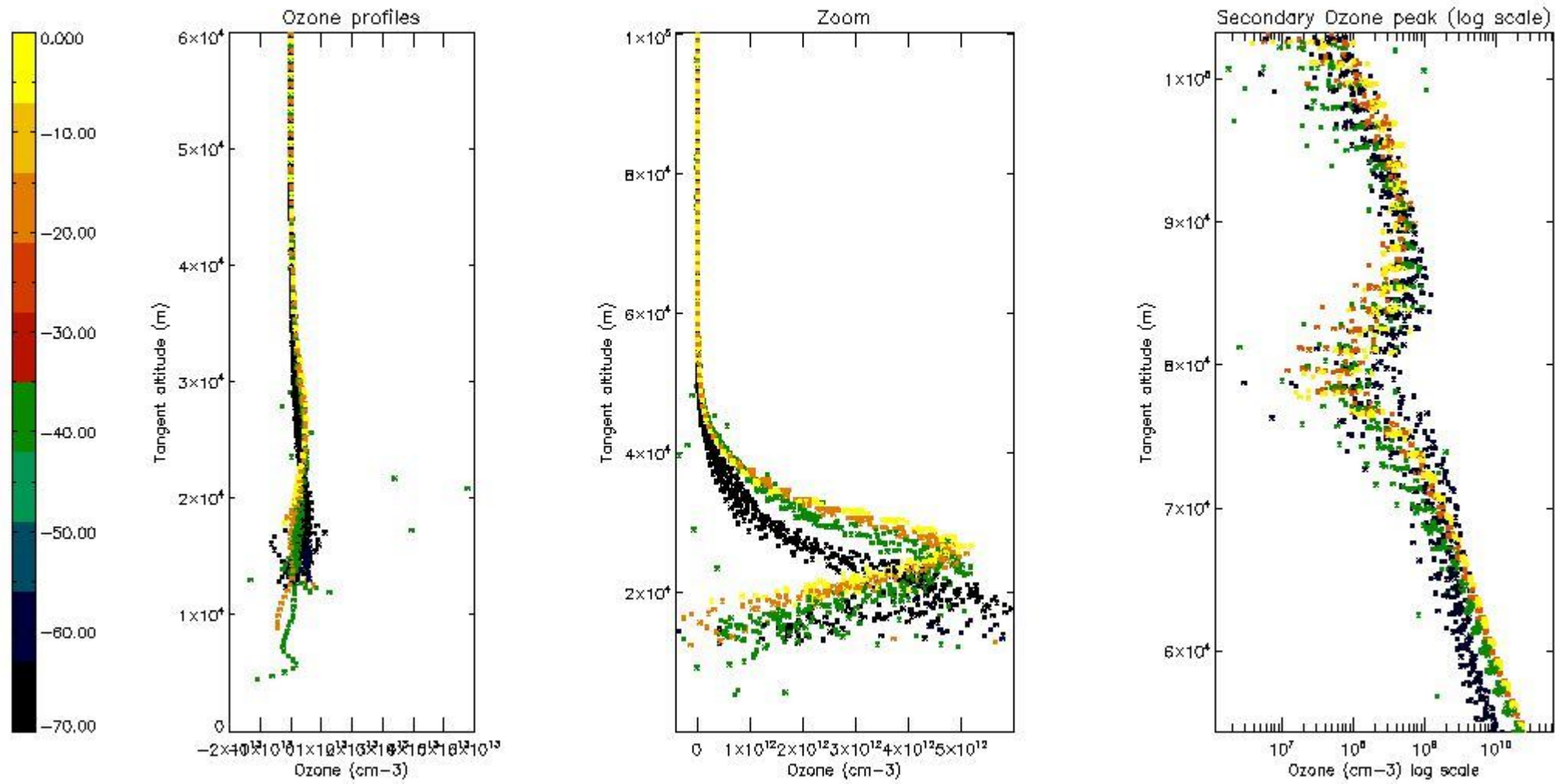
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	21
STD < 20	14

STD < 10	12
STD < 5	8

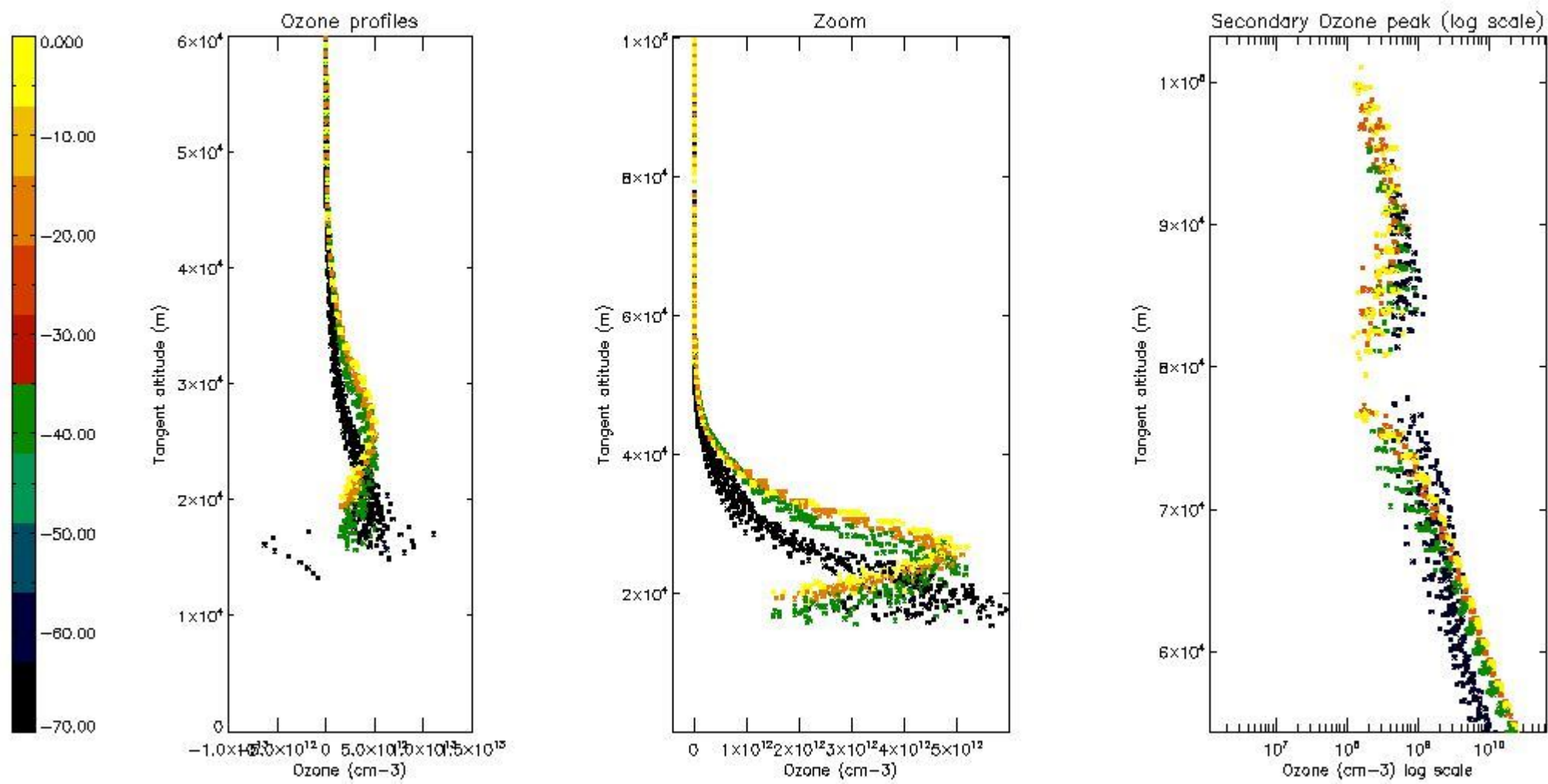
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



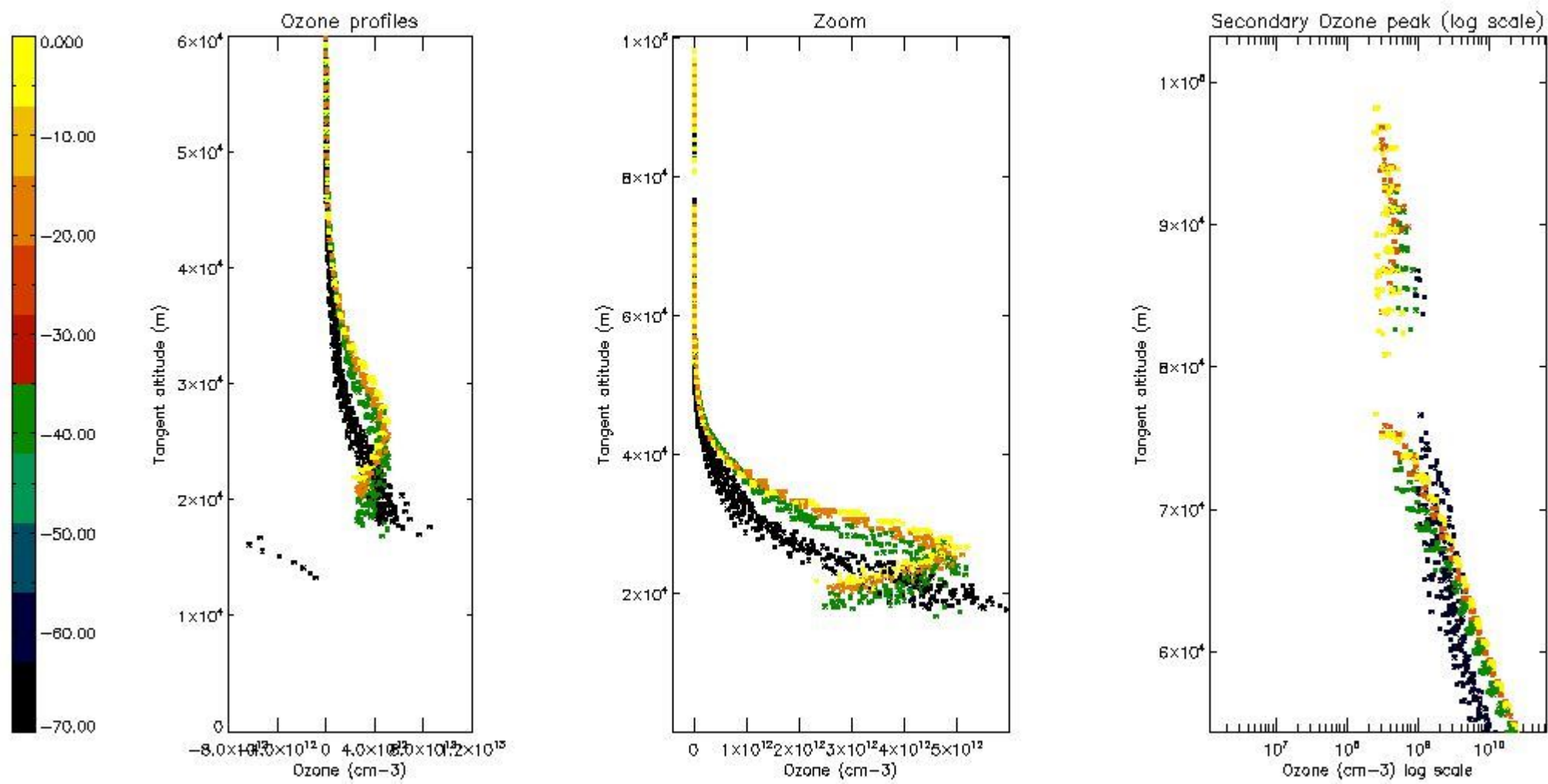
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



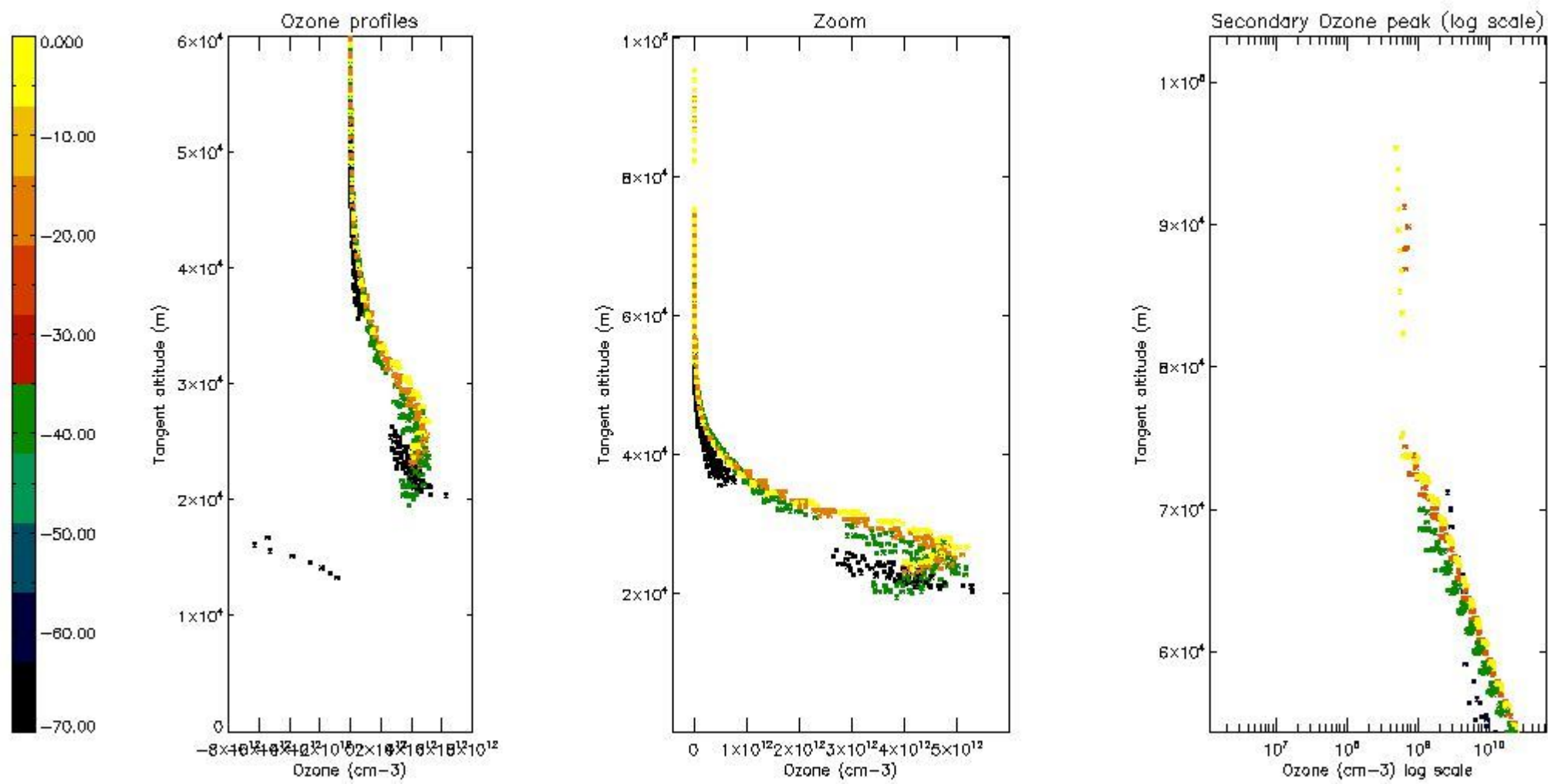
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



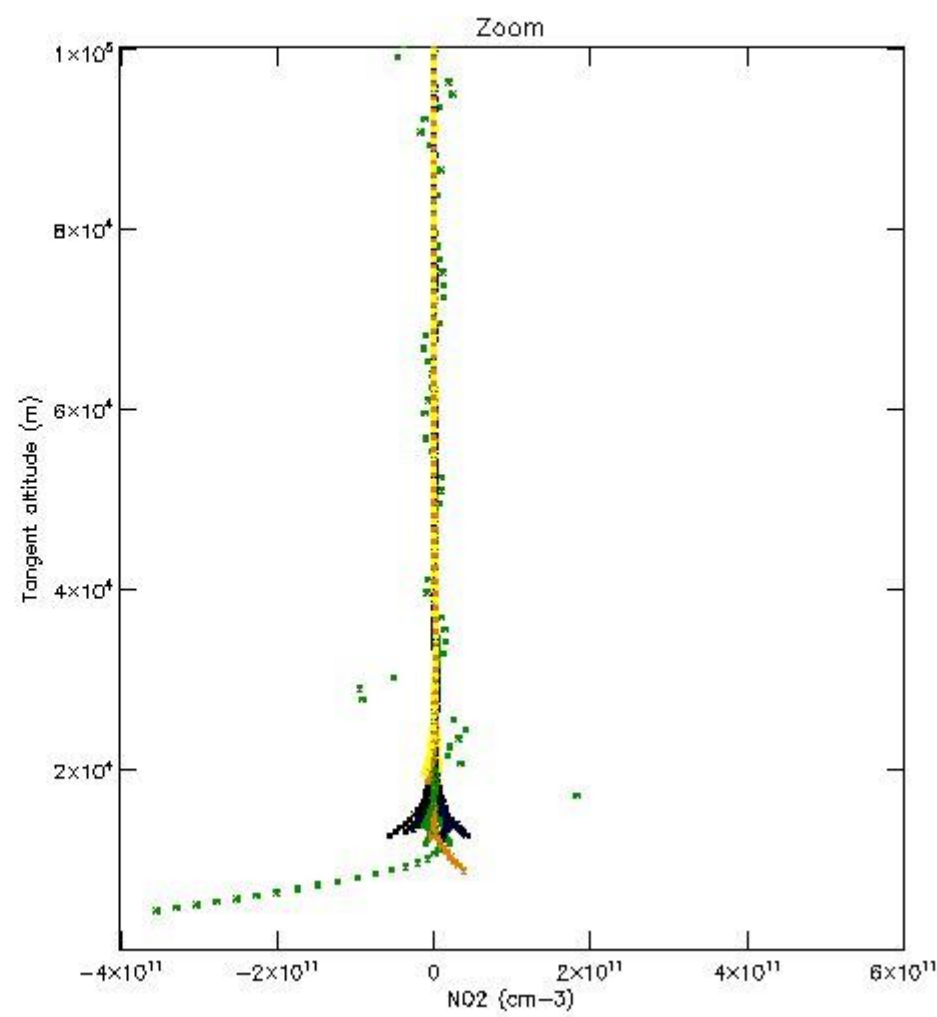
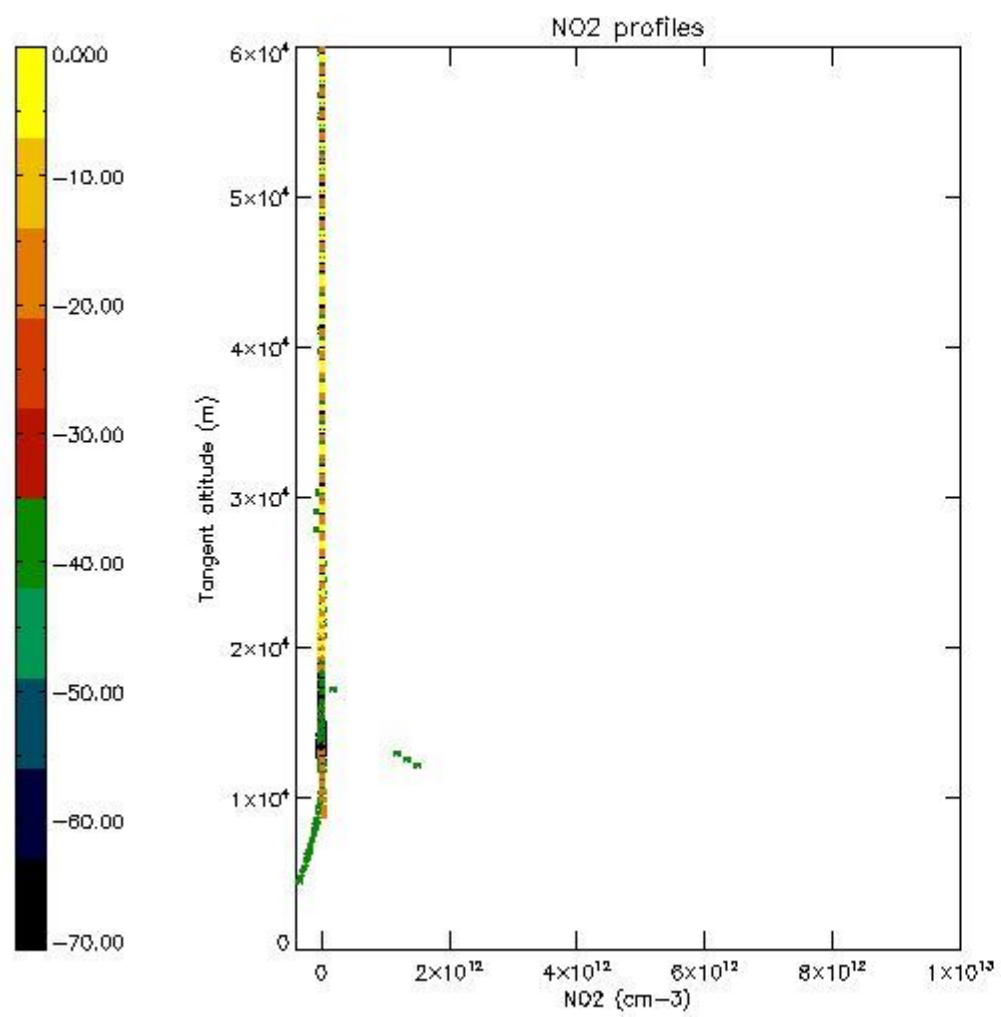
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



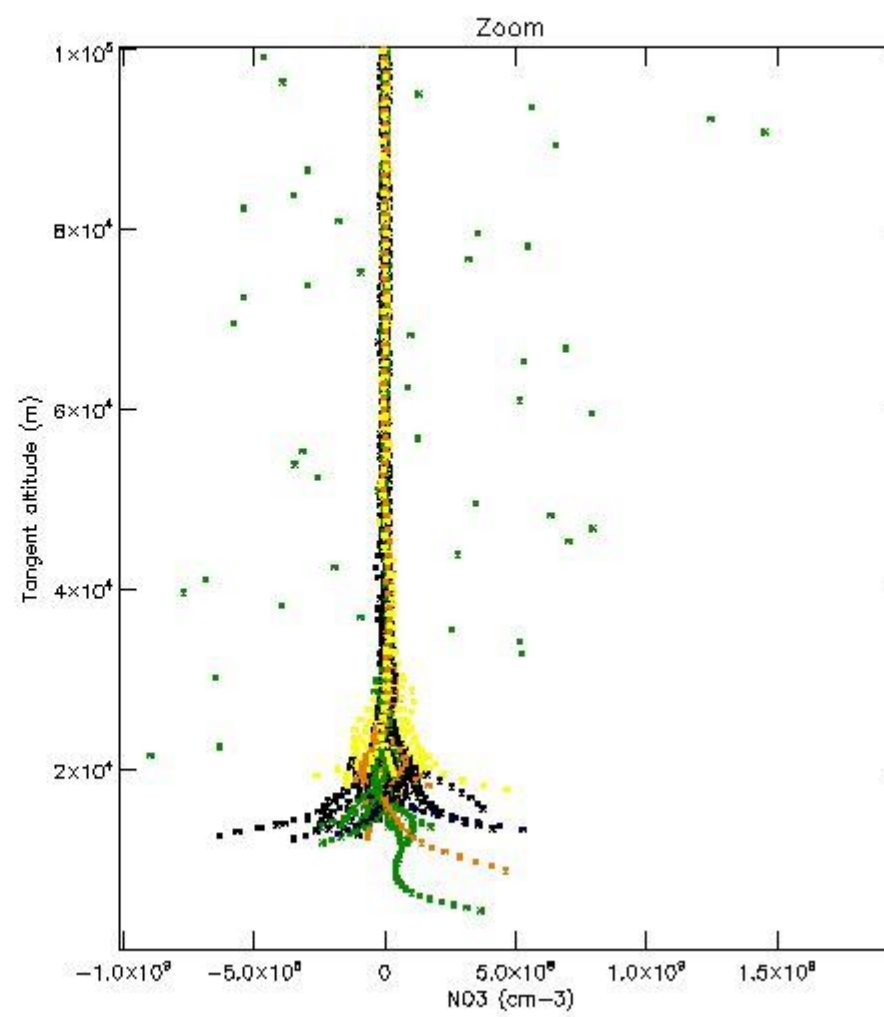
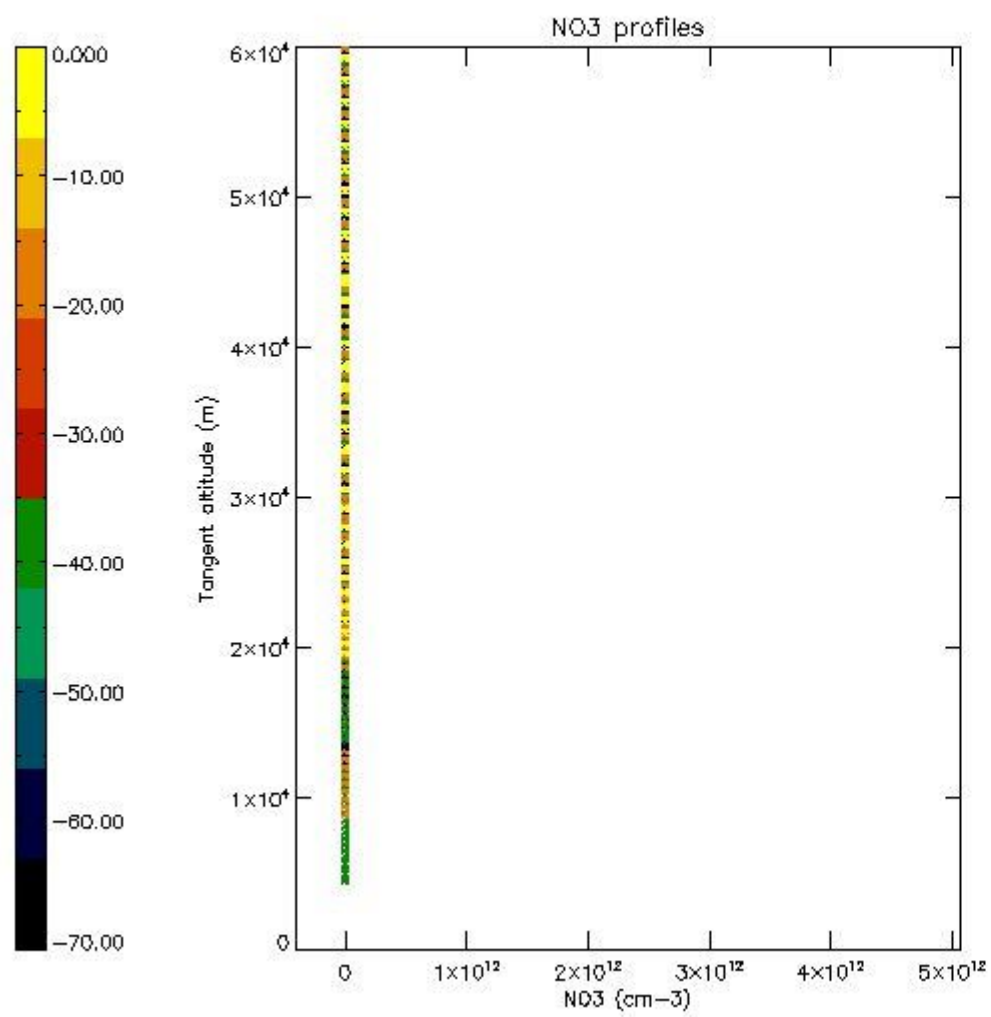
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



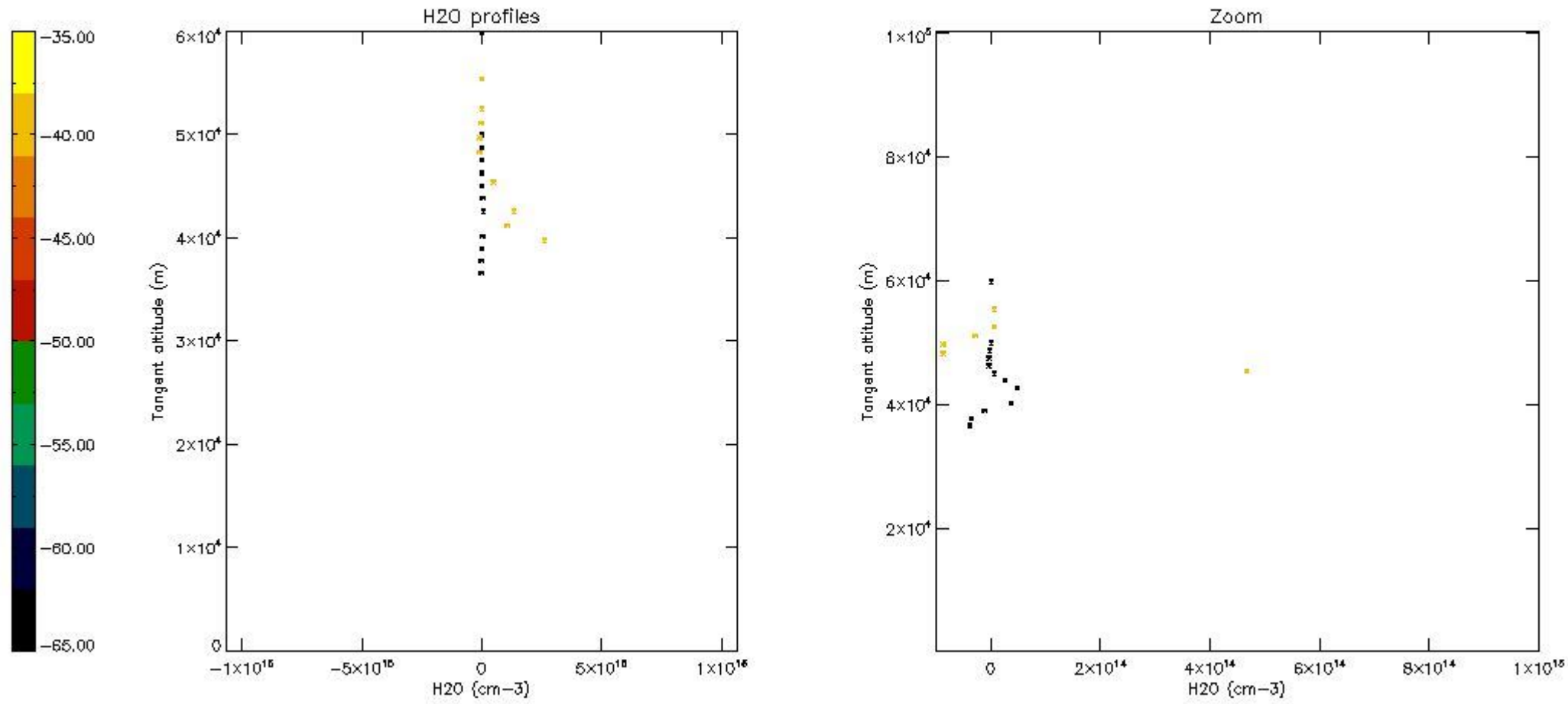
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

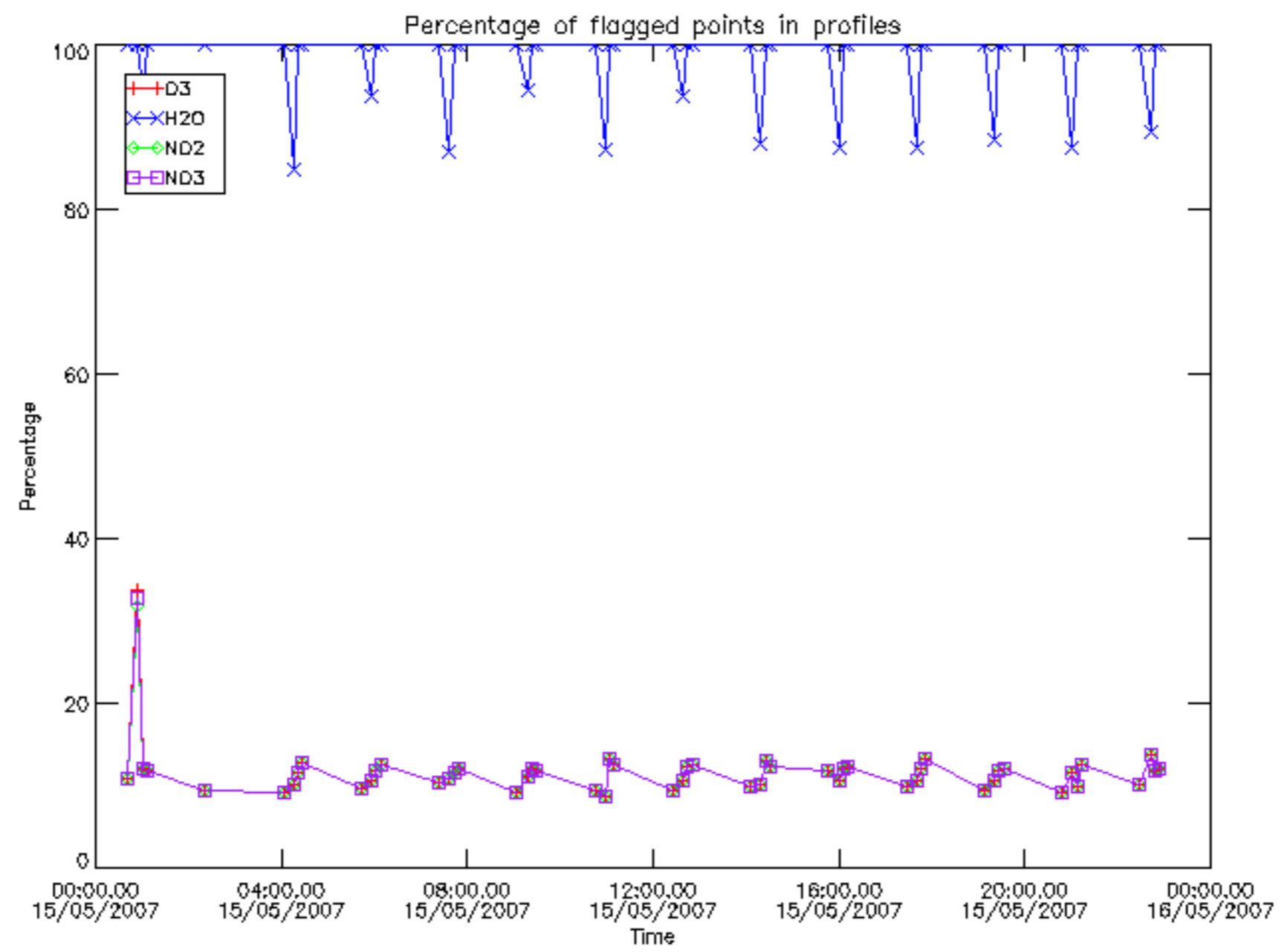
The colorbar represents the latitude.



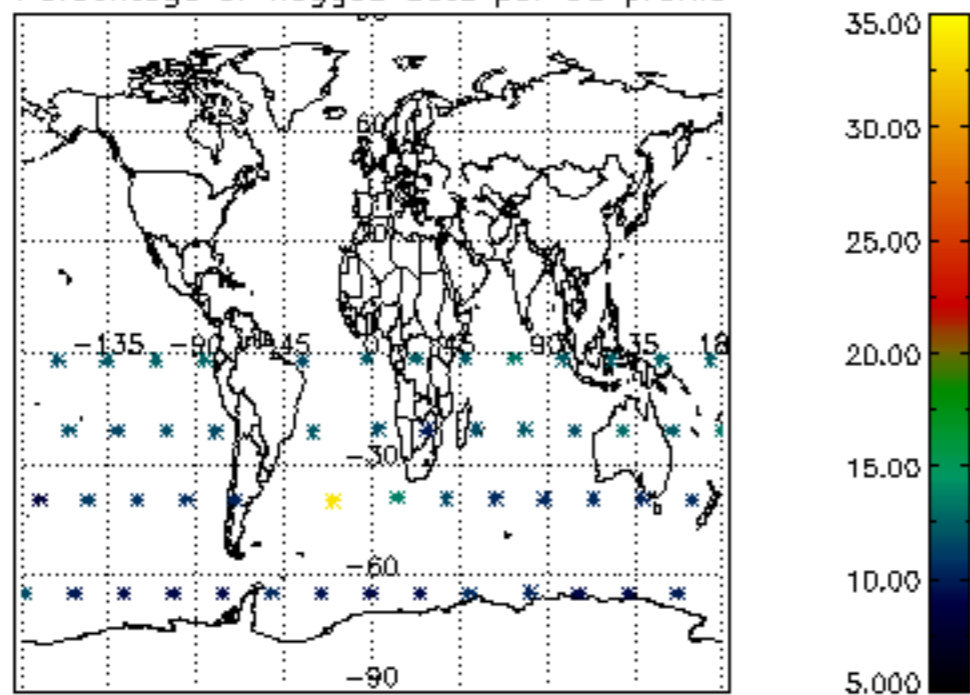
6. Auxiliary Data Files used for the production reported in section 2

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

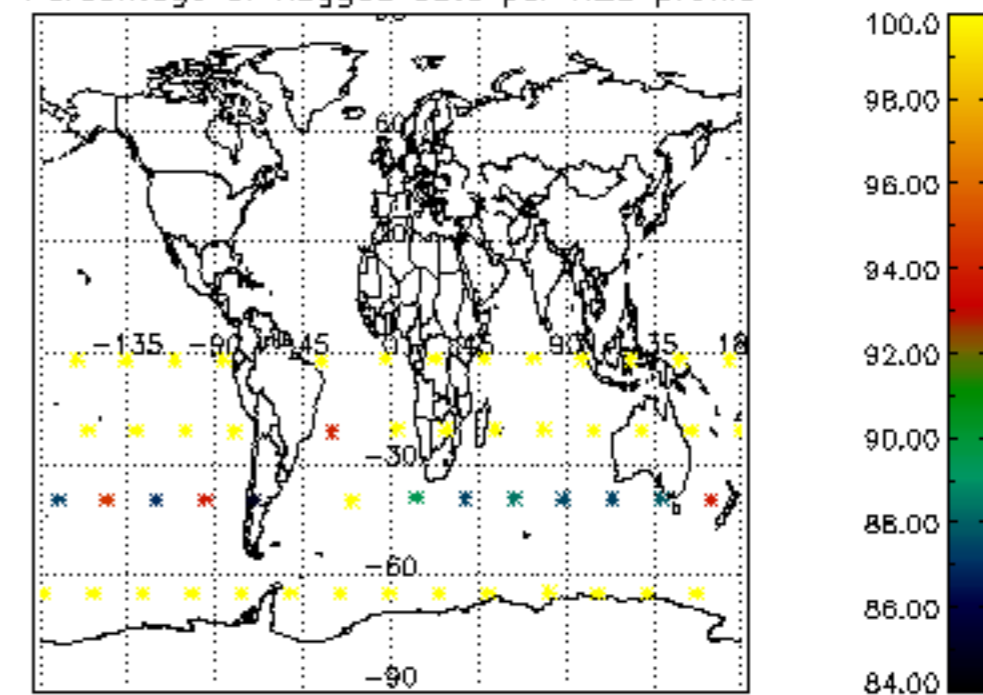
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	15-MAY-2007 00:02:58
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-MAY-2007 00:02:58
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-MAY-2007 00:02:58



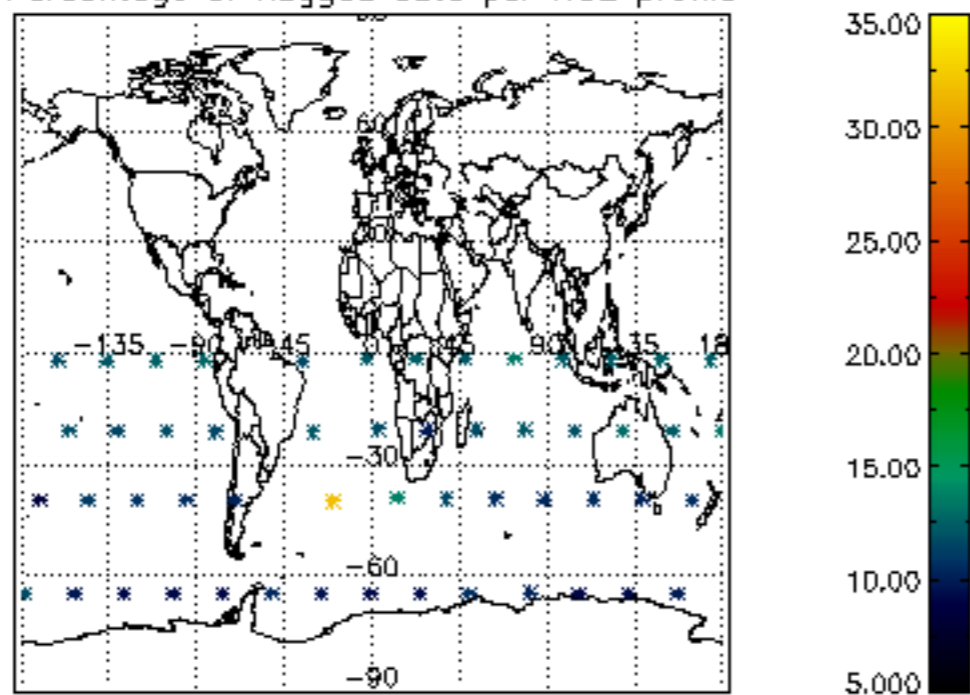
Percentage of flagged data per D3 profile



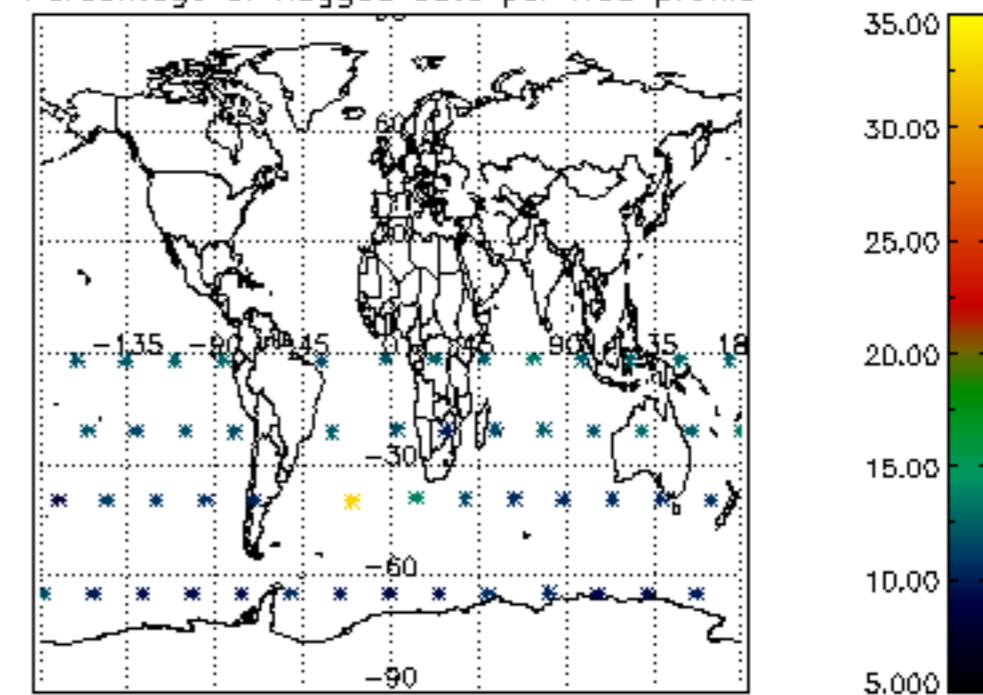
Percentage of flagged data per H2O profile

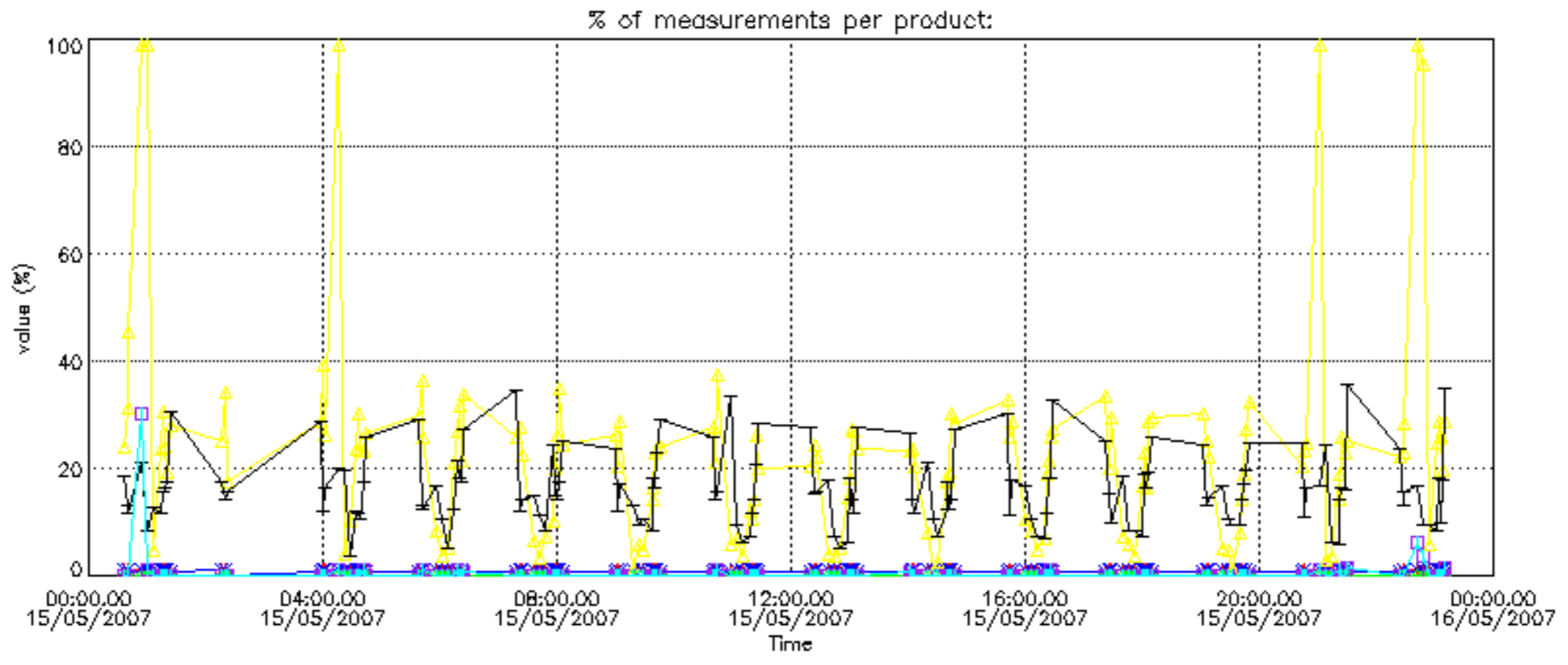


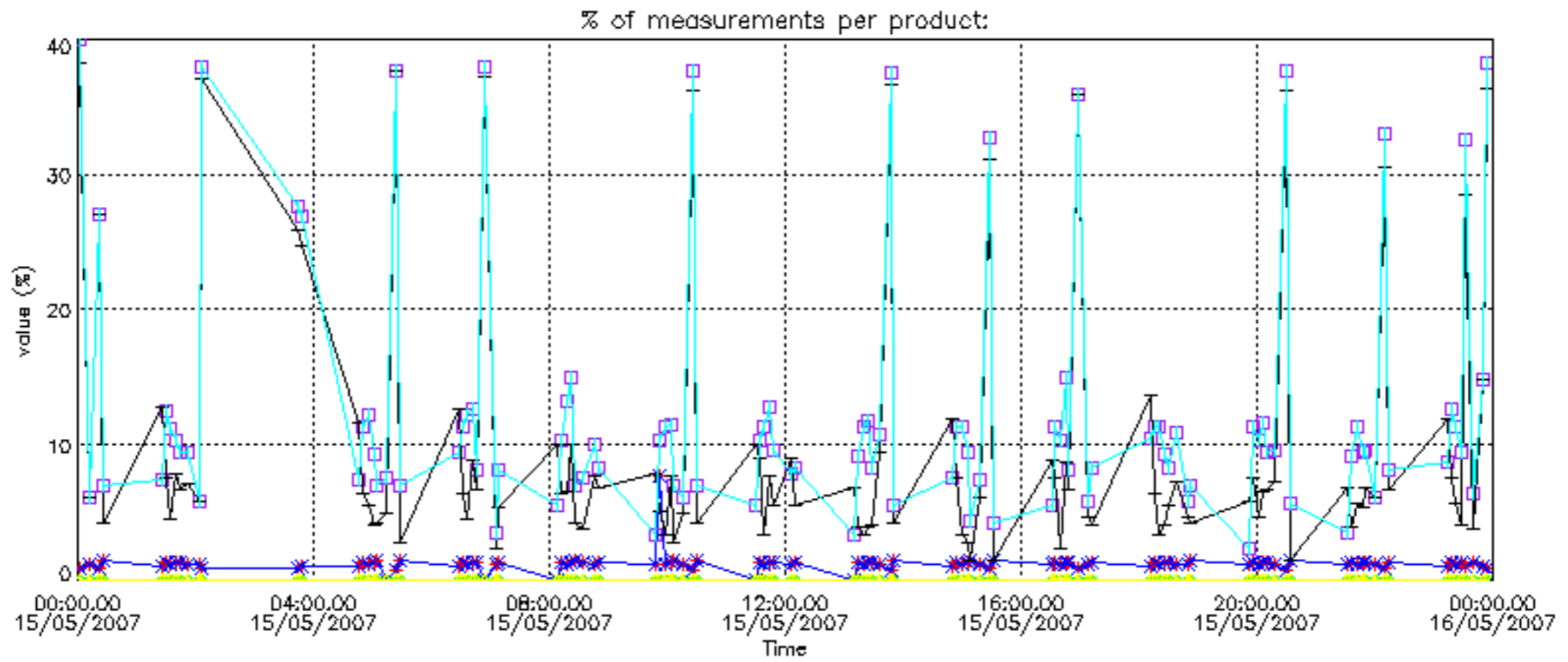
Percentage of flagged data per NO2 profile



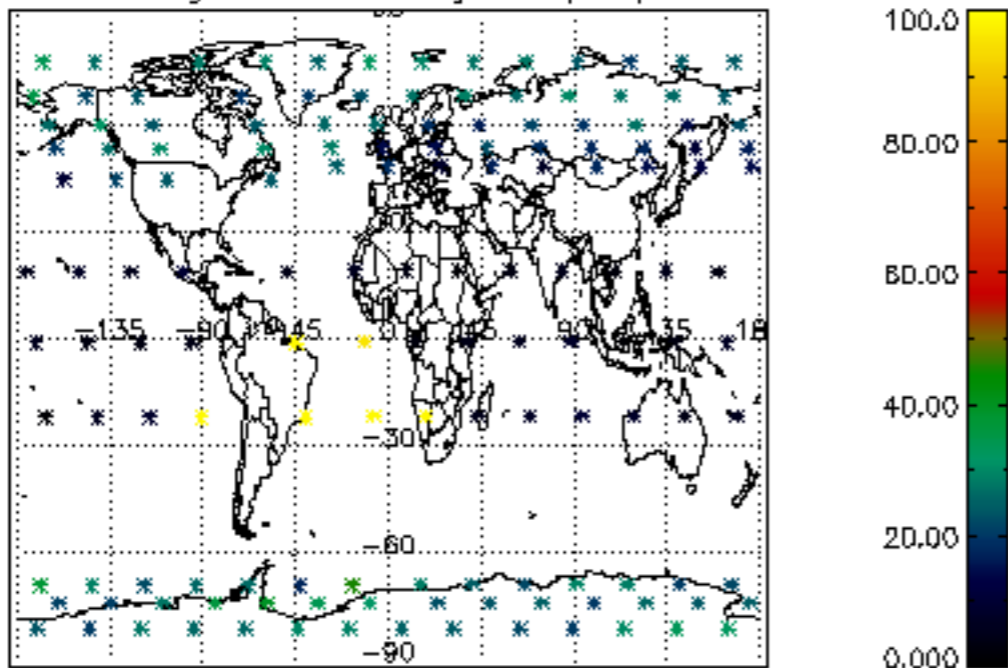
Percentage of flagged data per NO3 profile



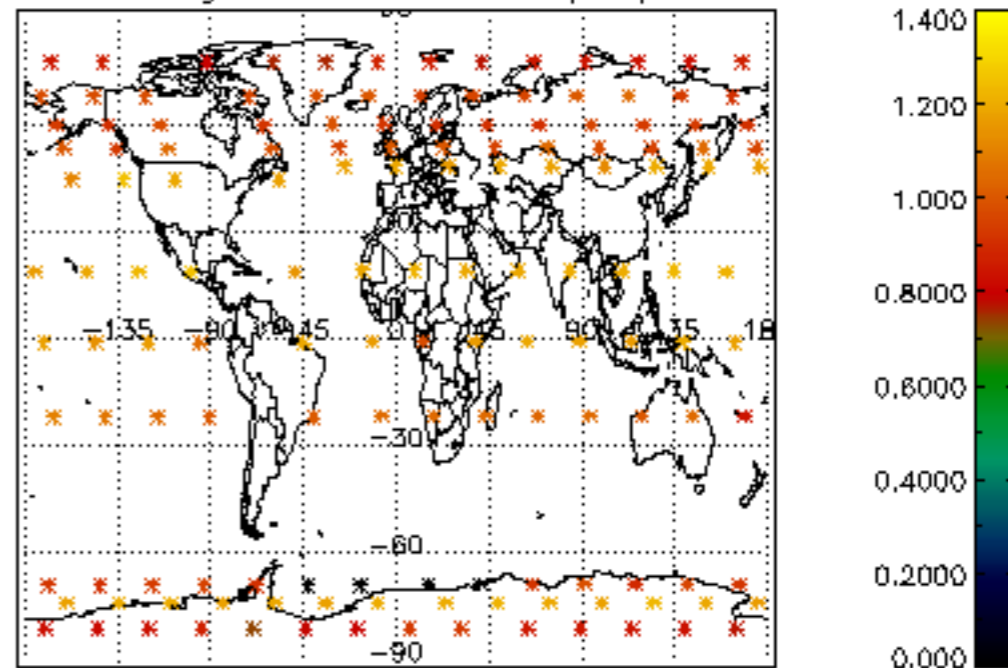




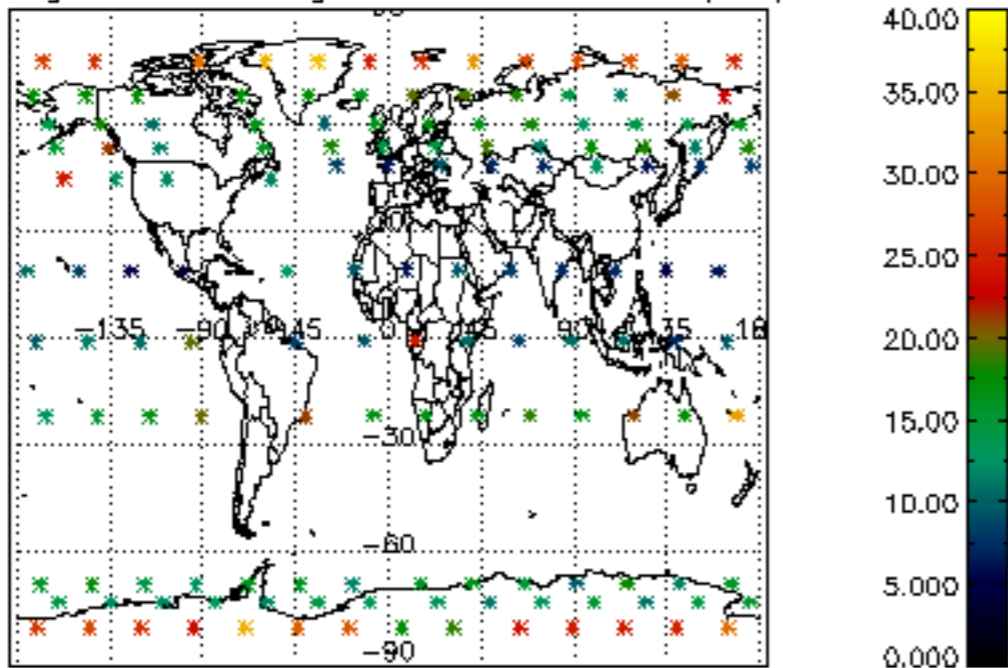
Percentage of cosmic ray hits per profile



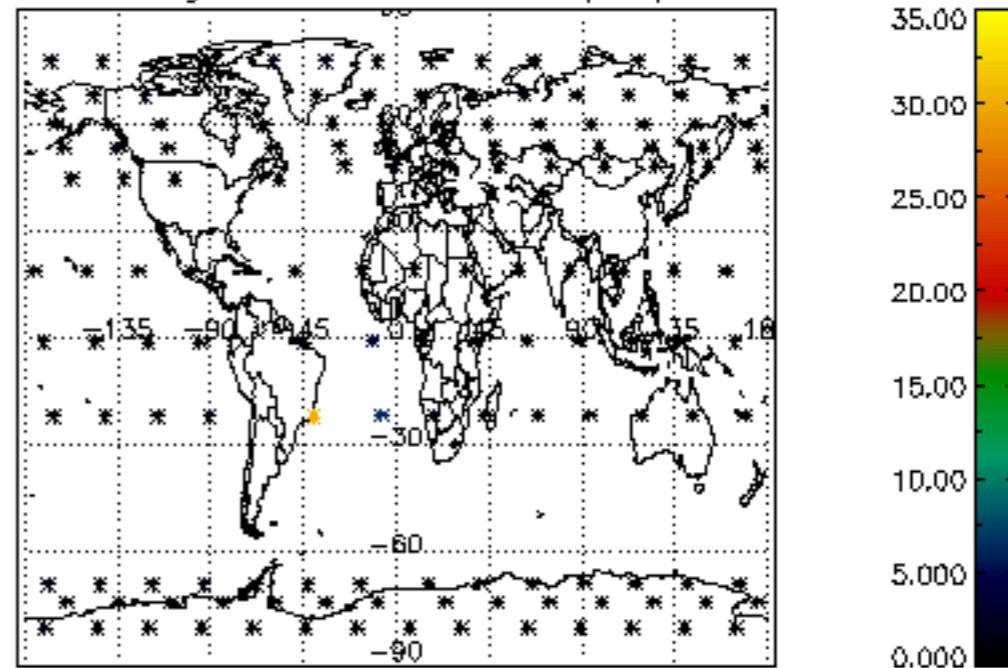
Percentage of datation errors per profile



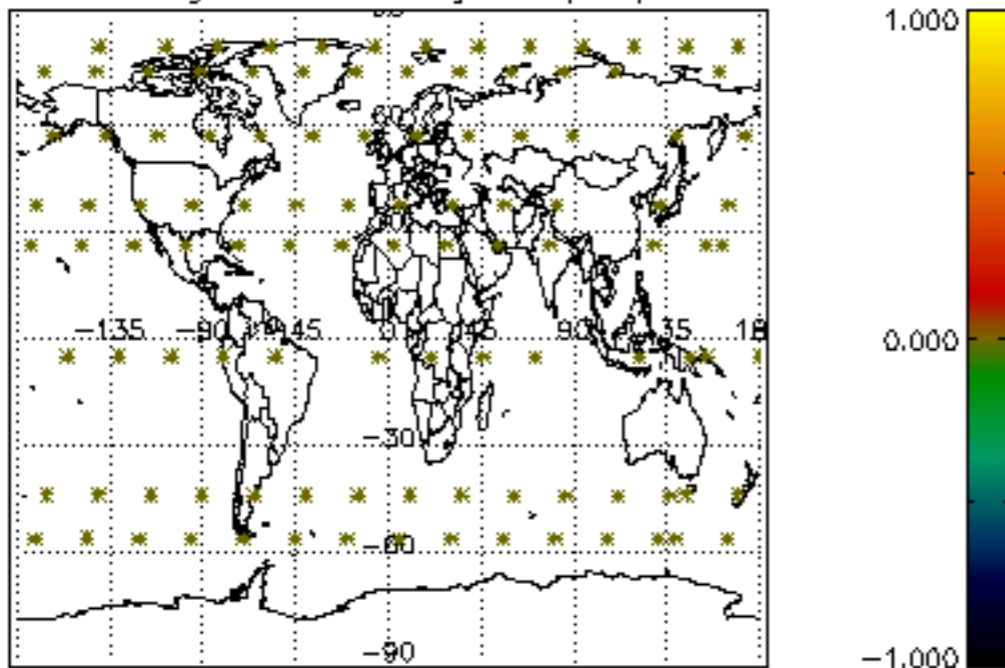
Percentage of star falling outside central band per profile



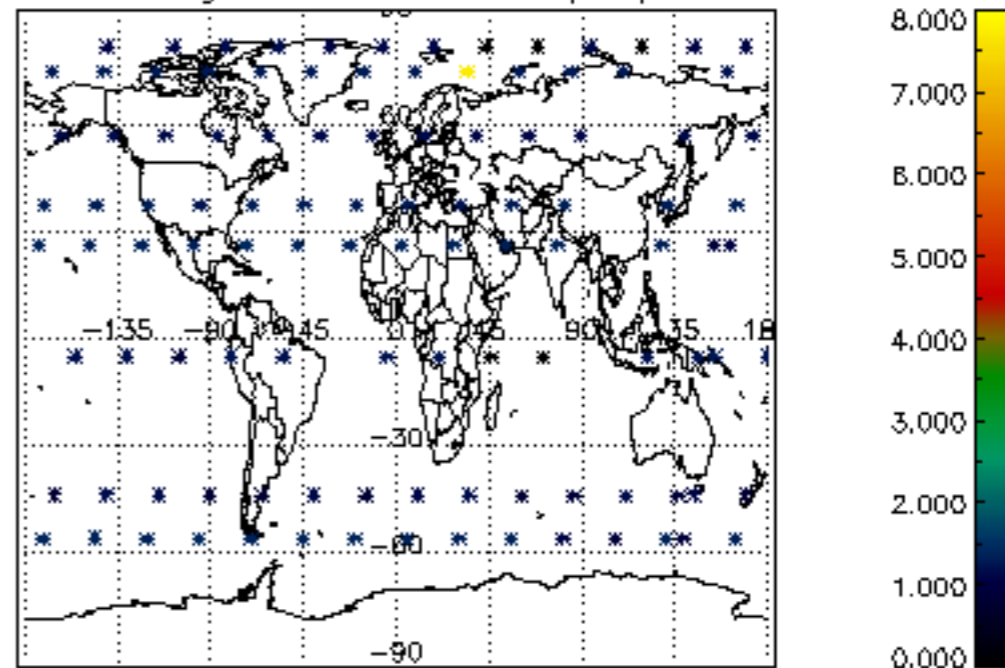
Percentage of saturation errors per profile



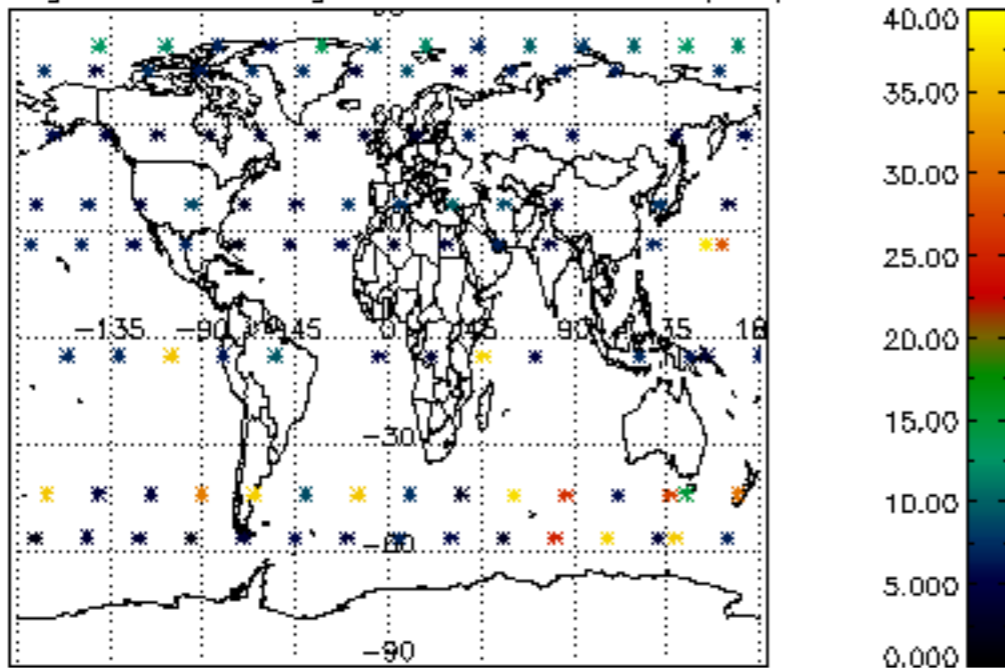
Percentage of cosmic ray hits per profile



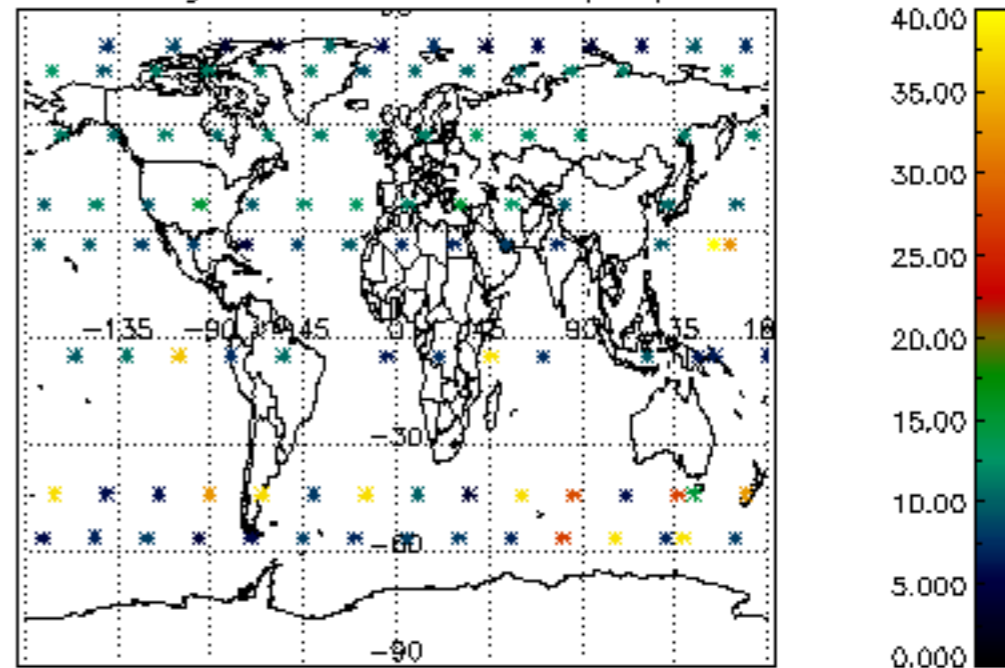
Percentage of datation errors per profile

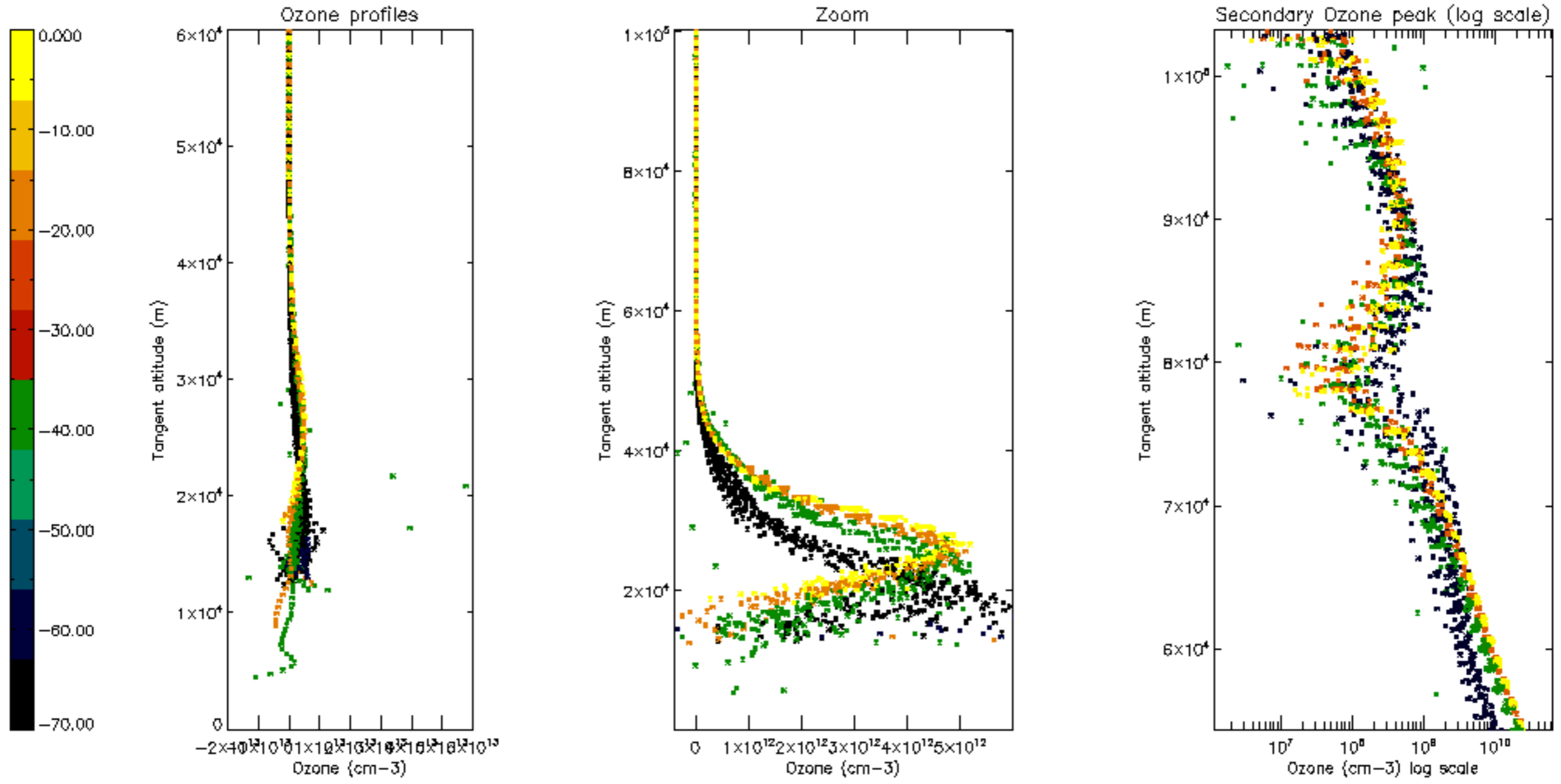


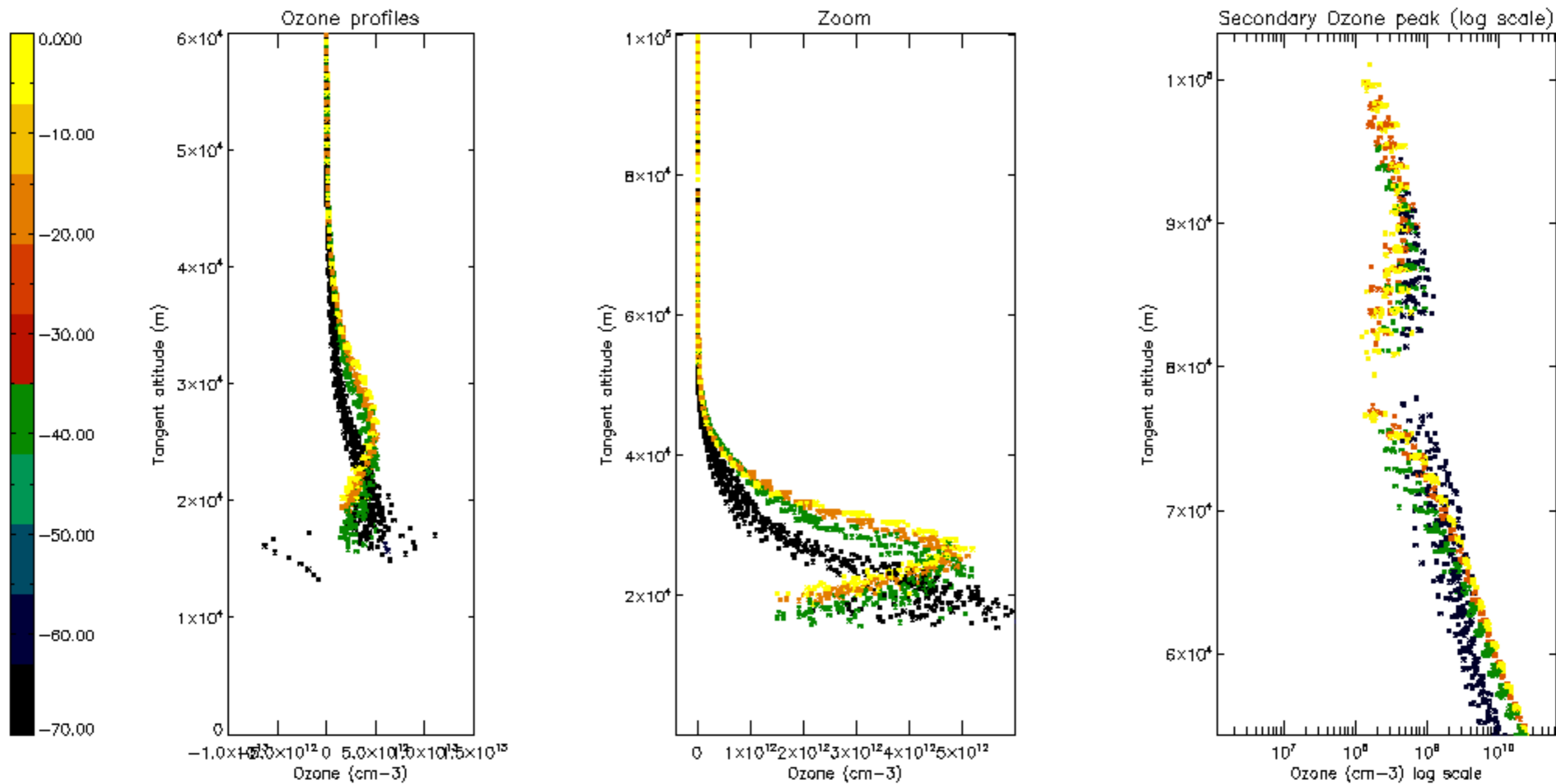
Percentage of star falling outside central band per profile

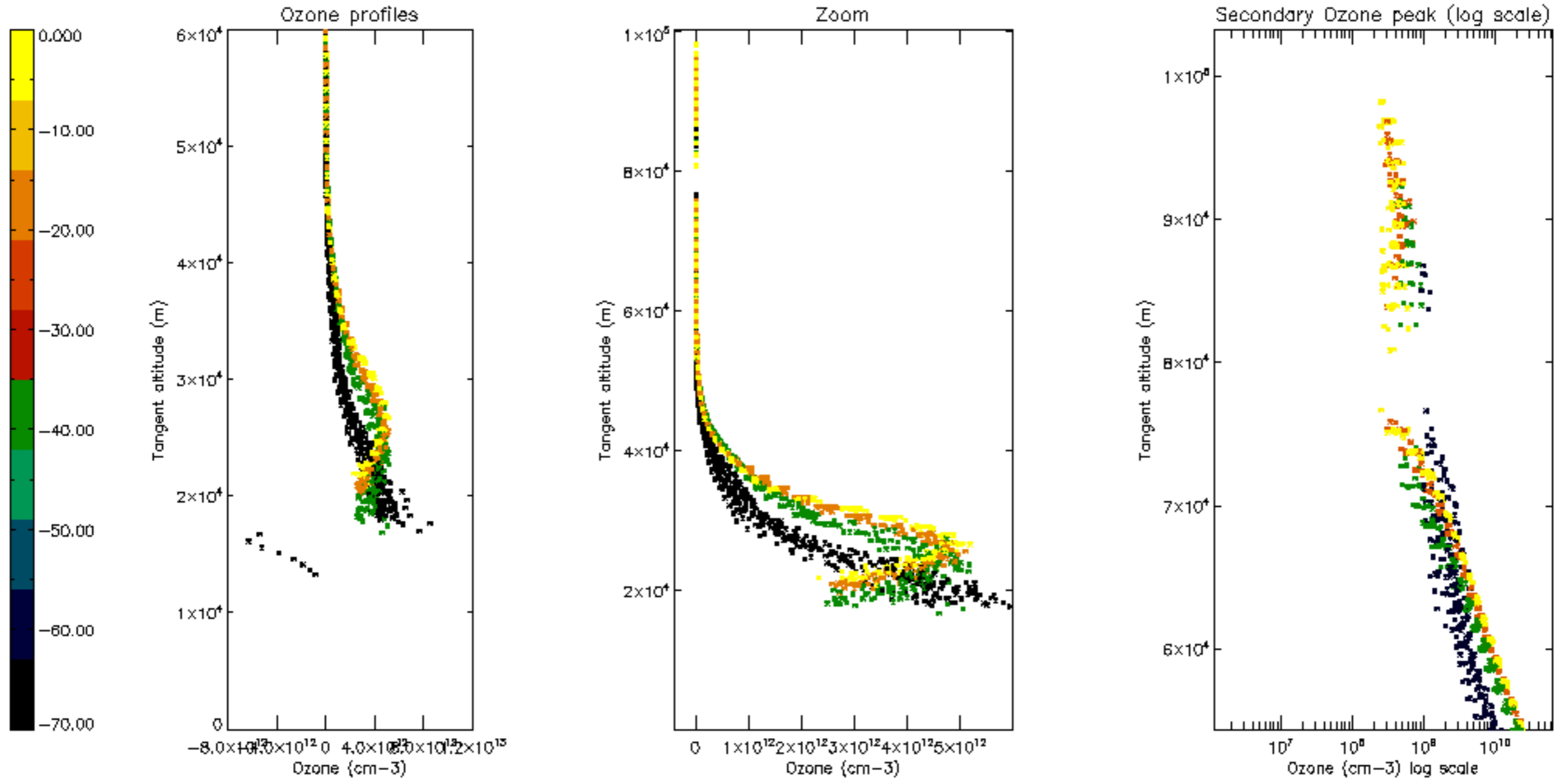


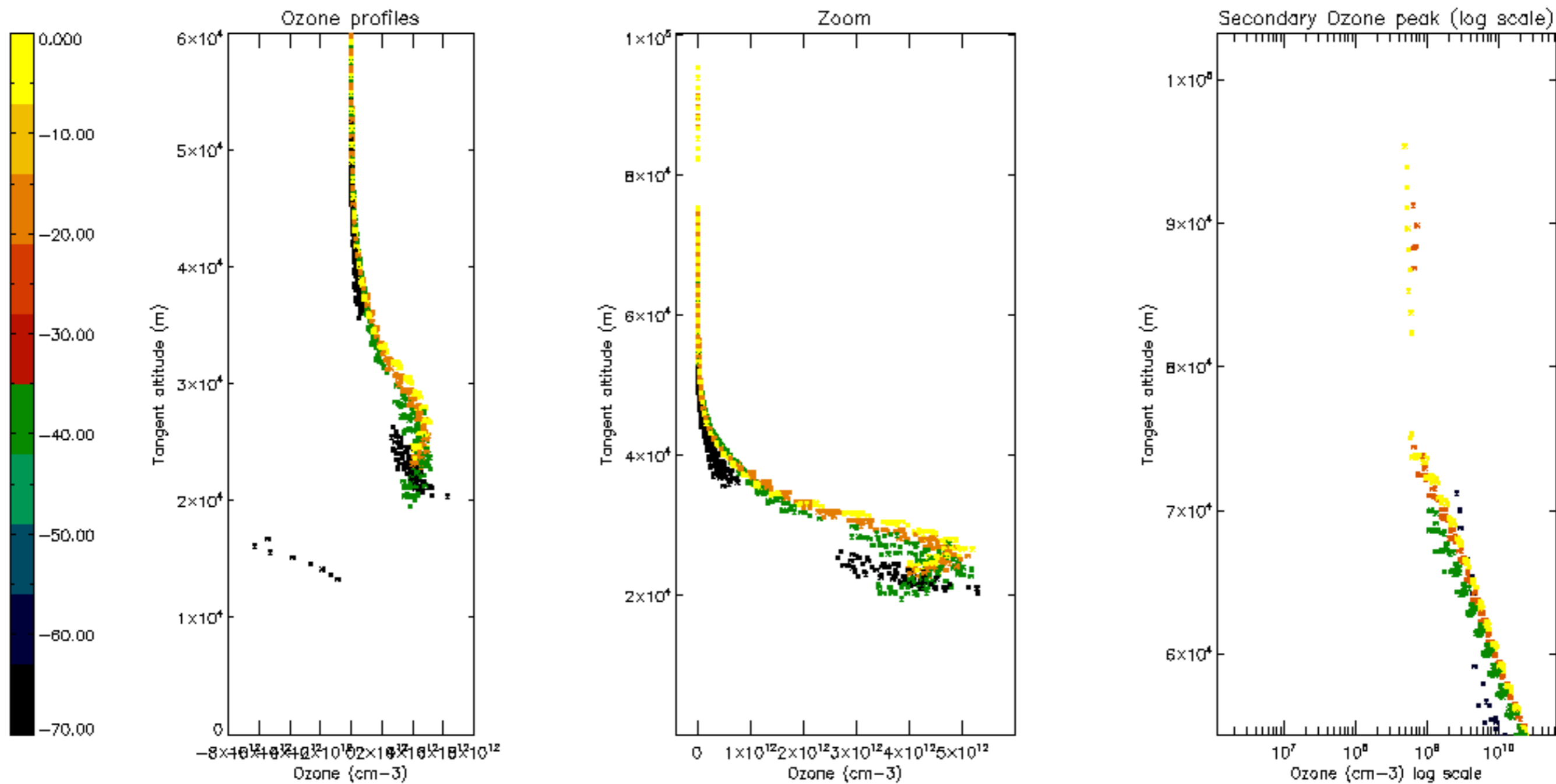
Percentage of saturation errors per profile

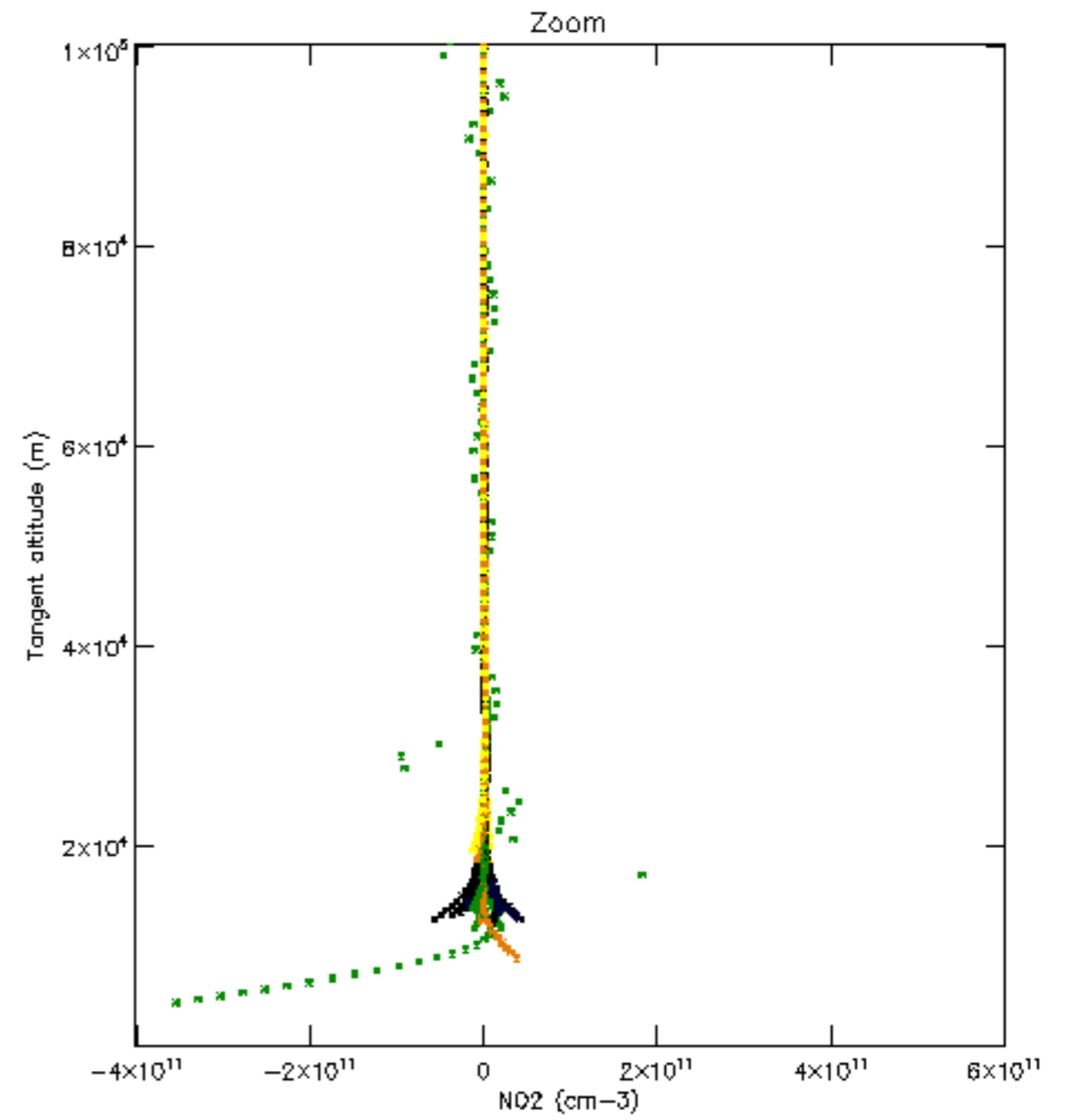
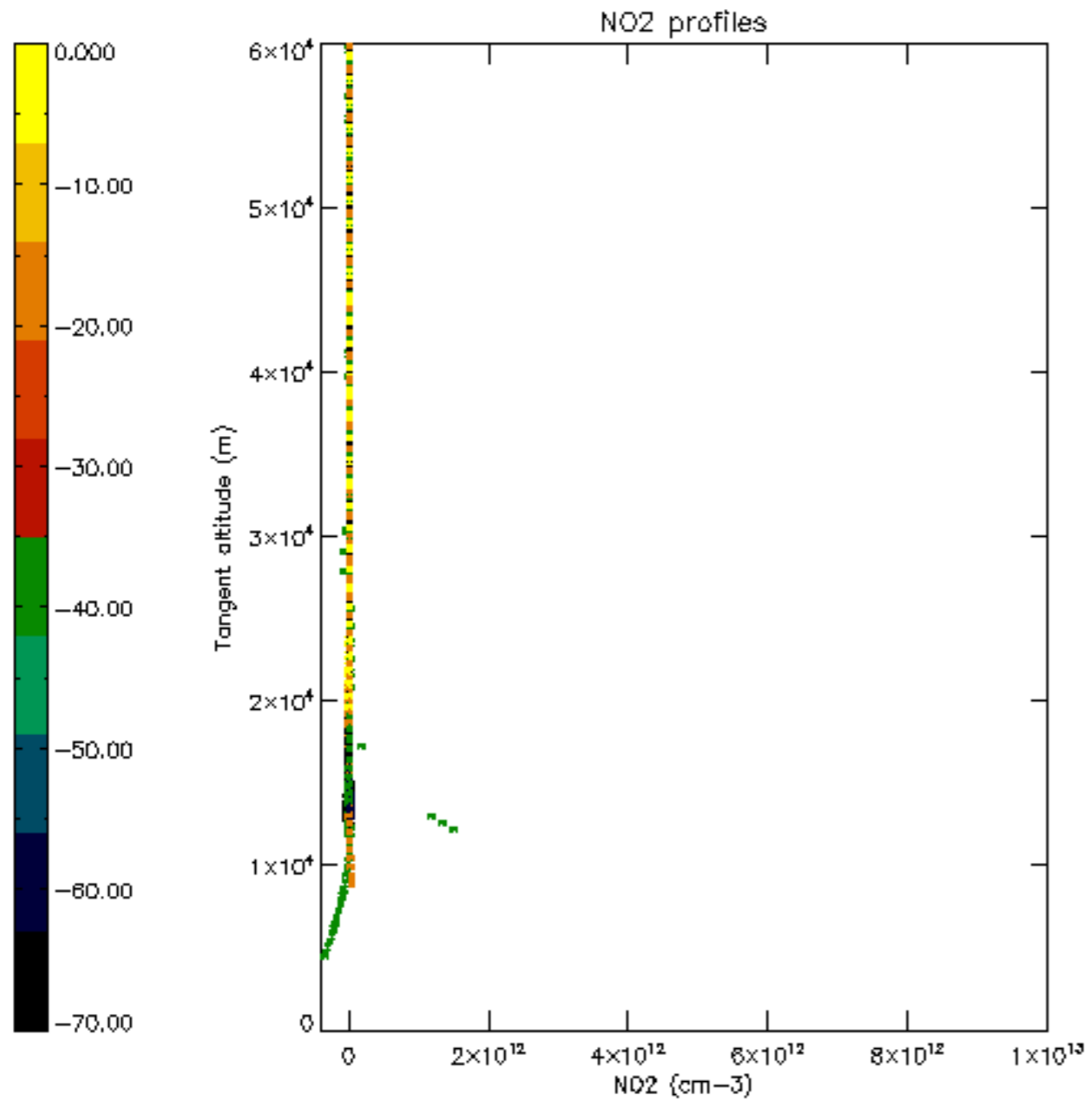


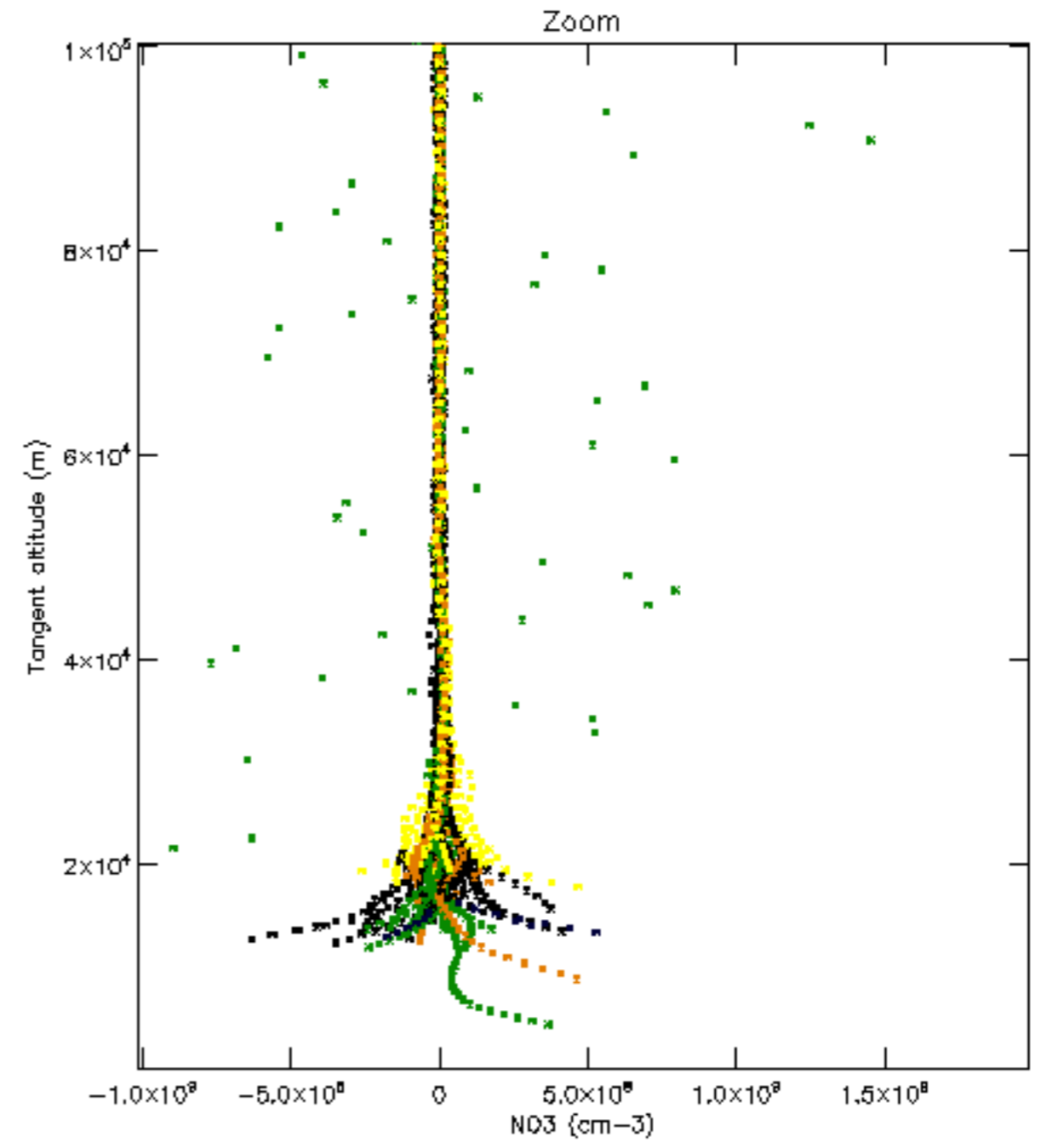
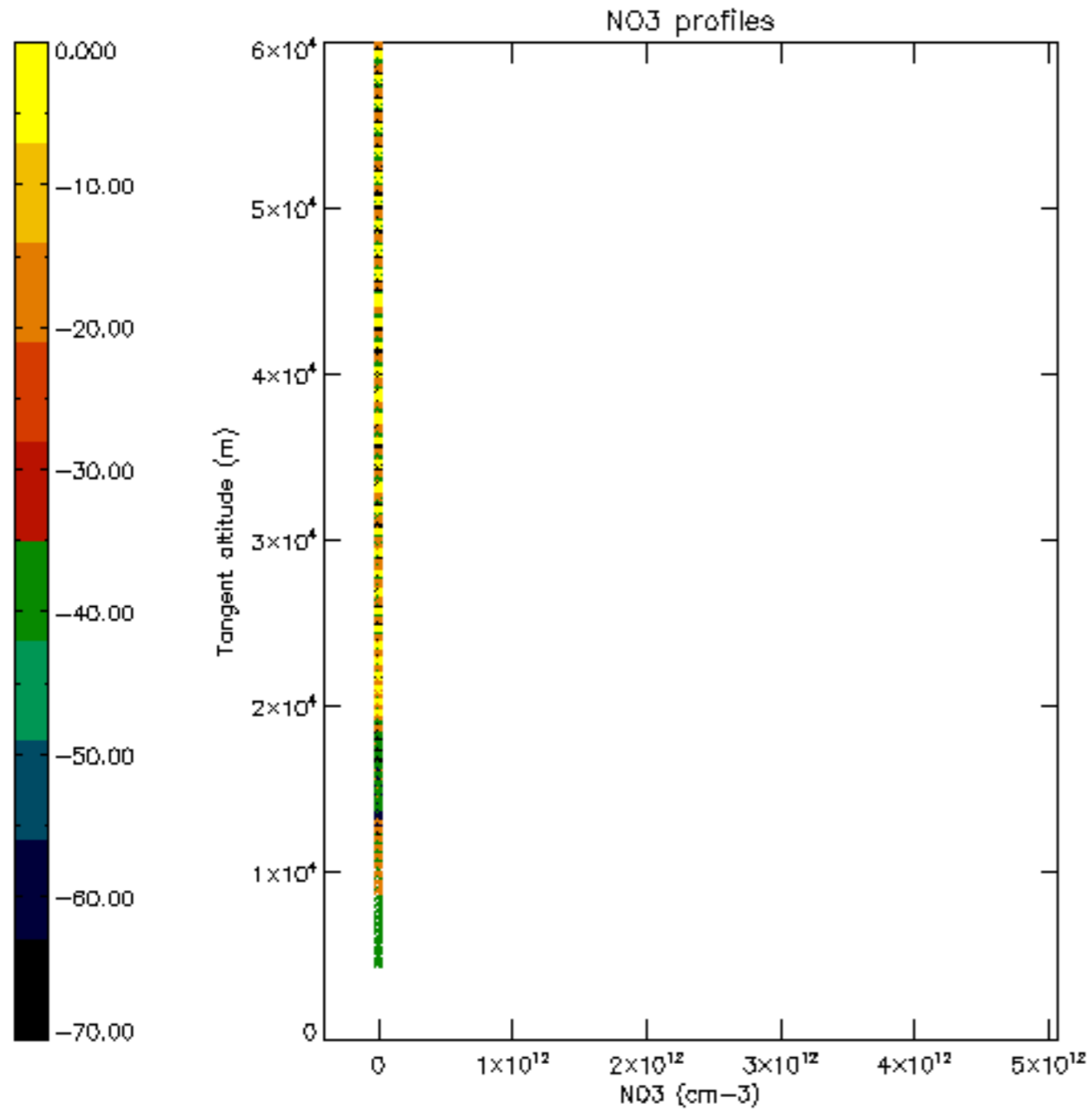


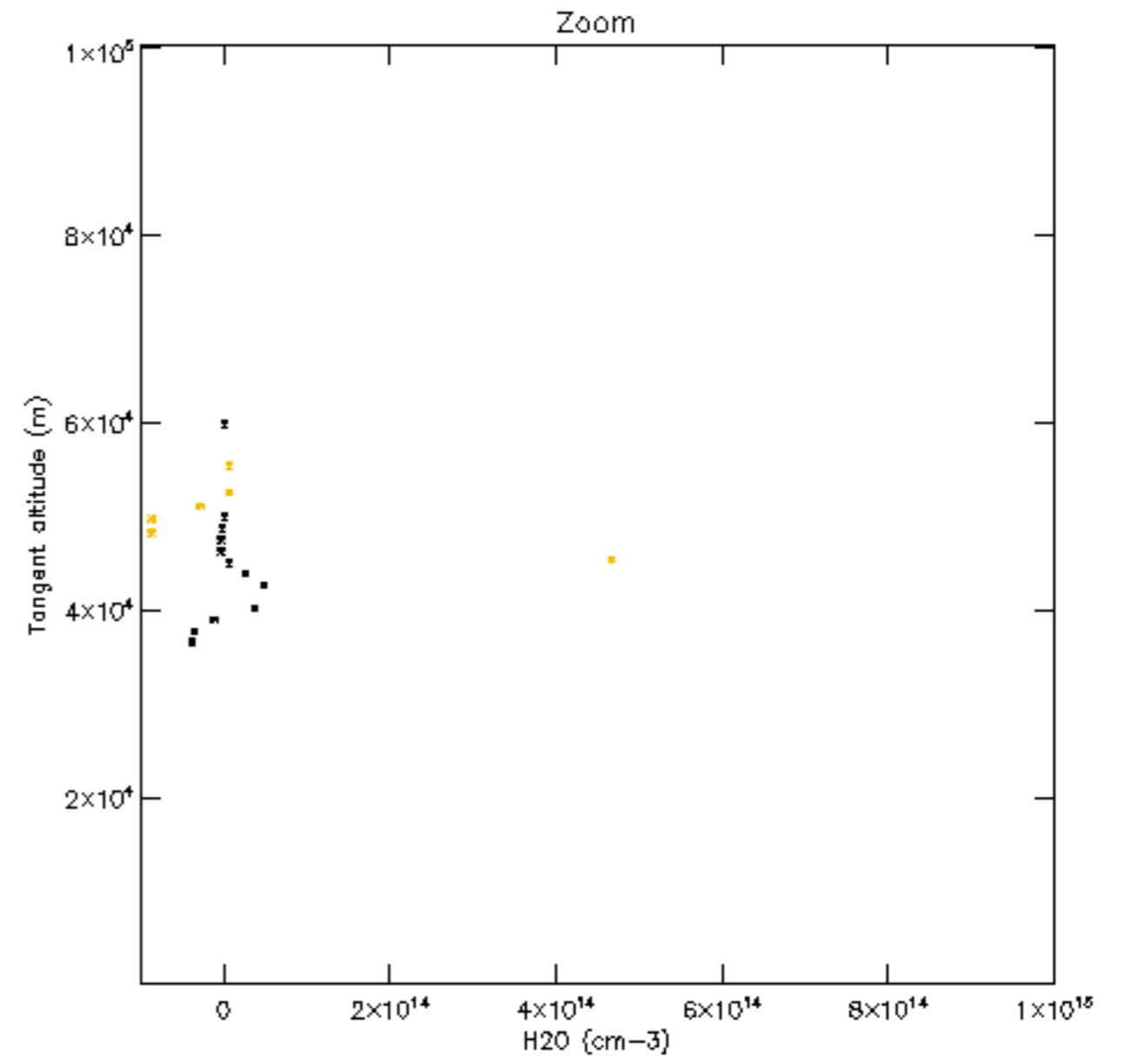
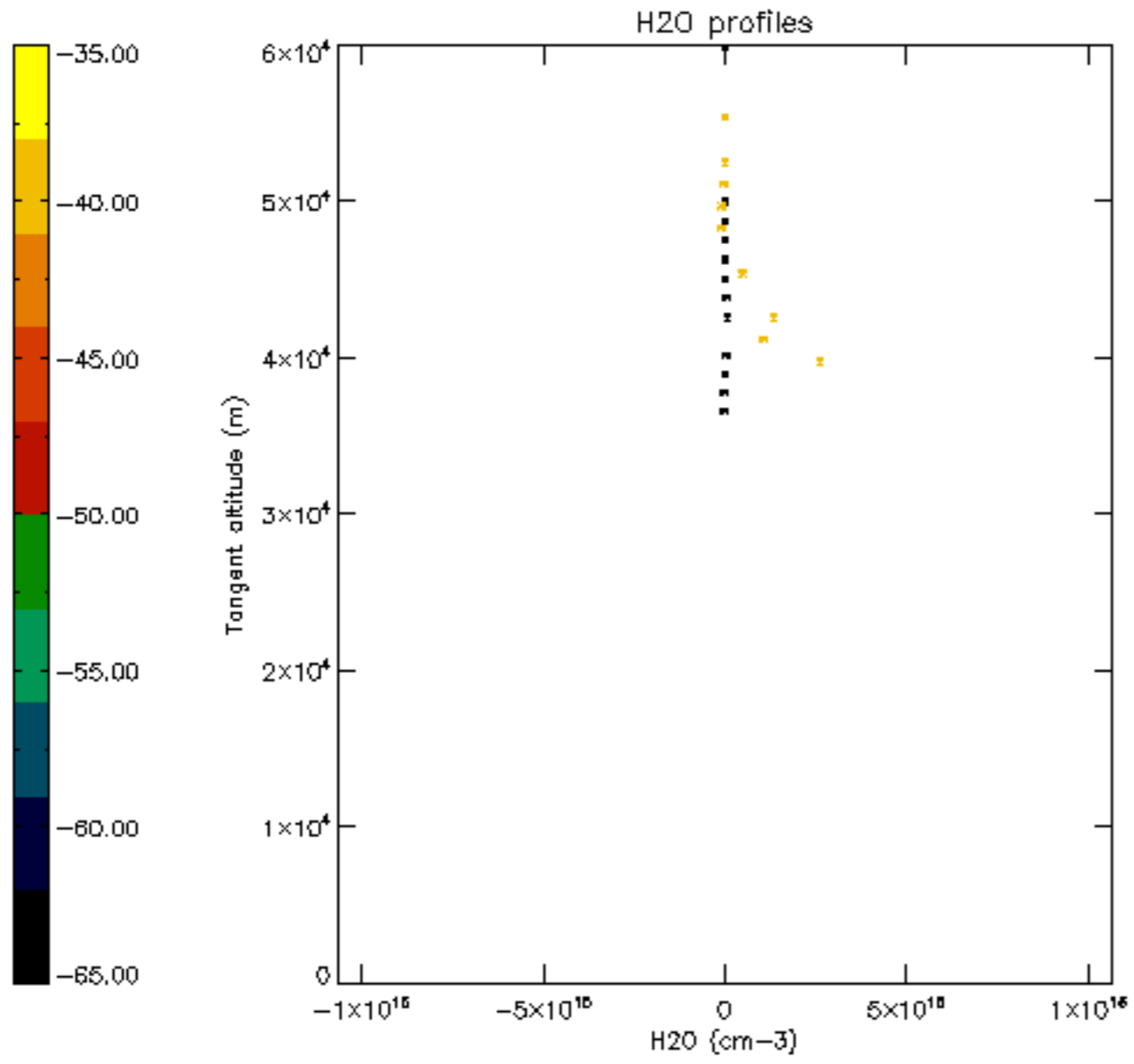


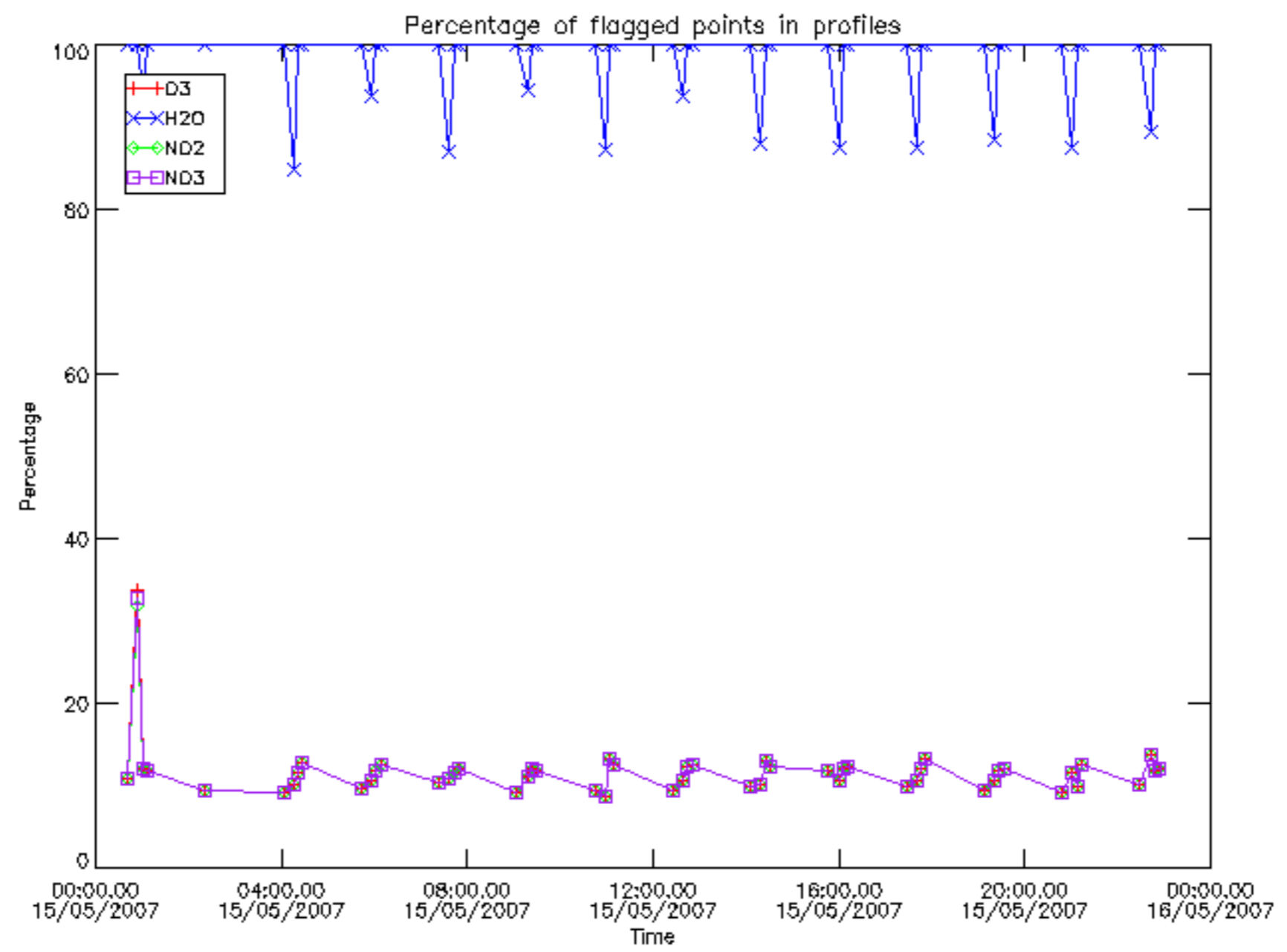




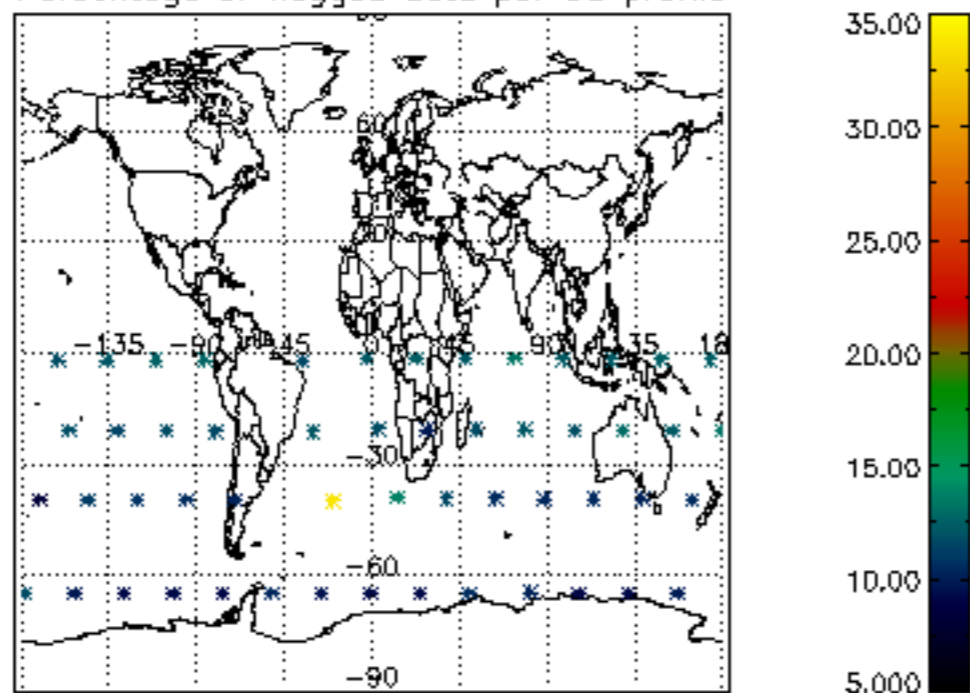




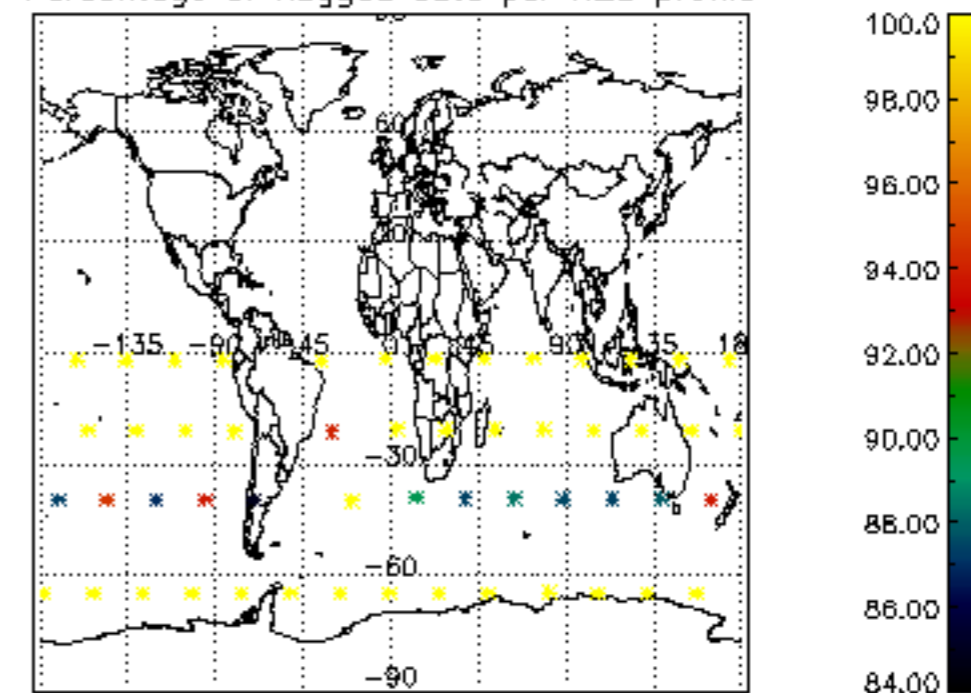




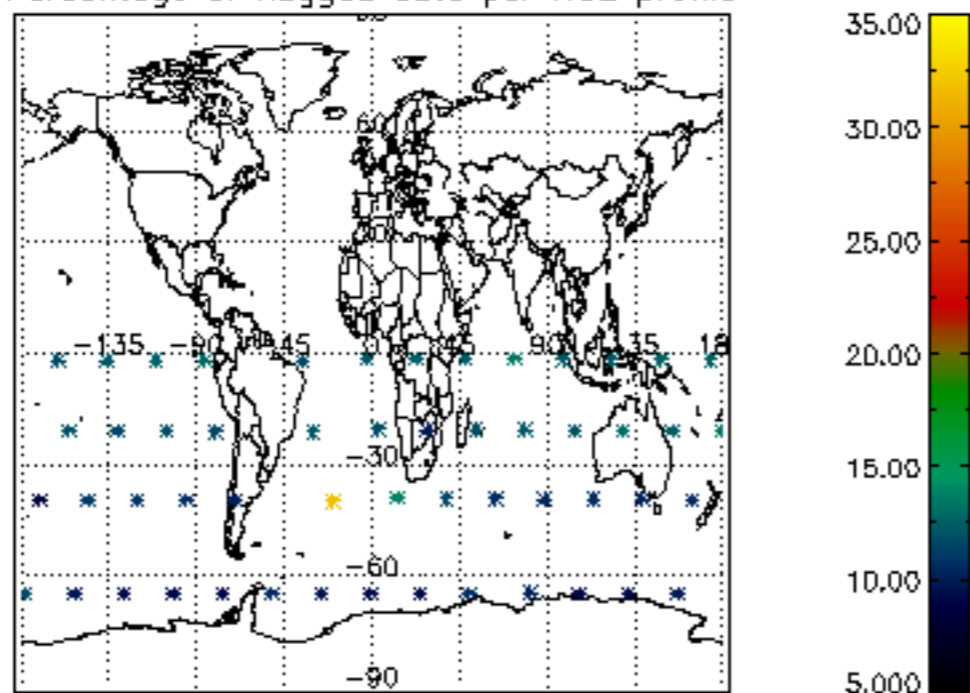
Percentage of flagged data per D3 profile



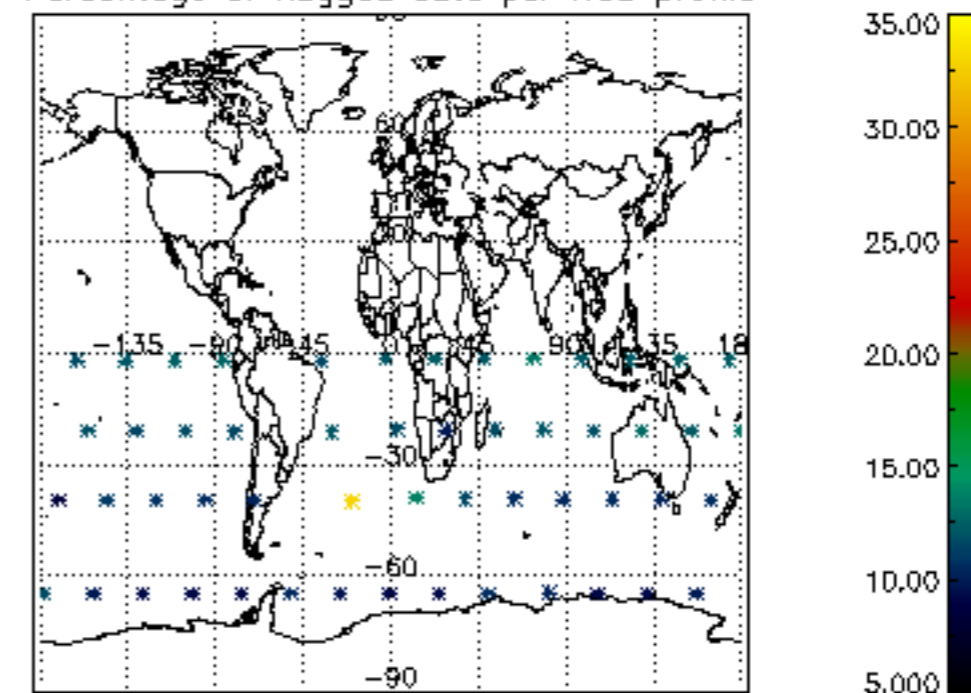
Percentage of flagged data per H2O profile

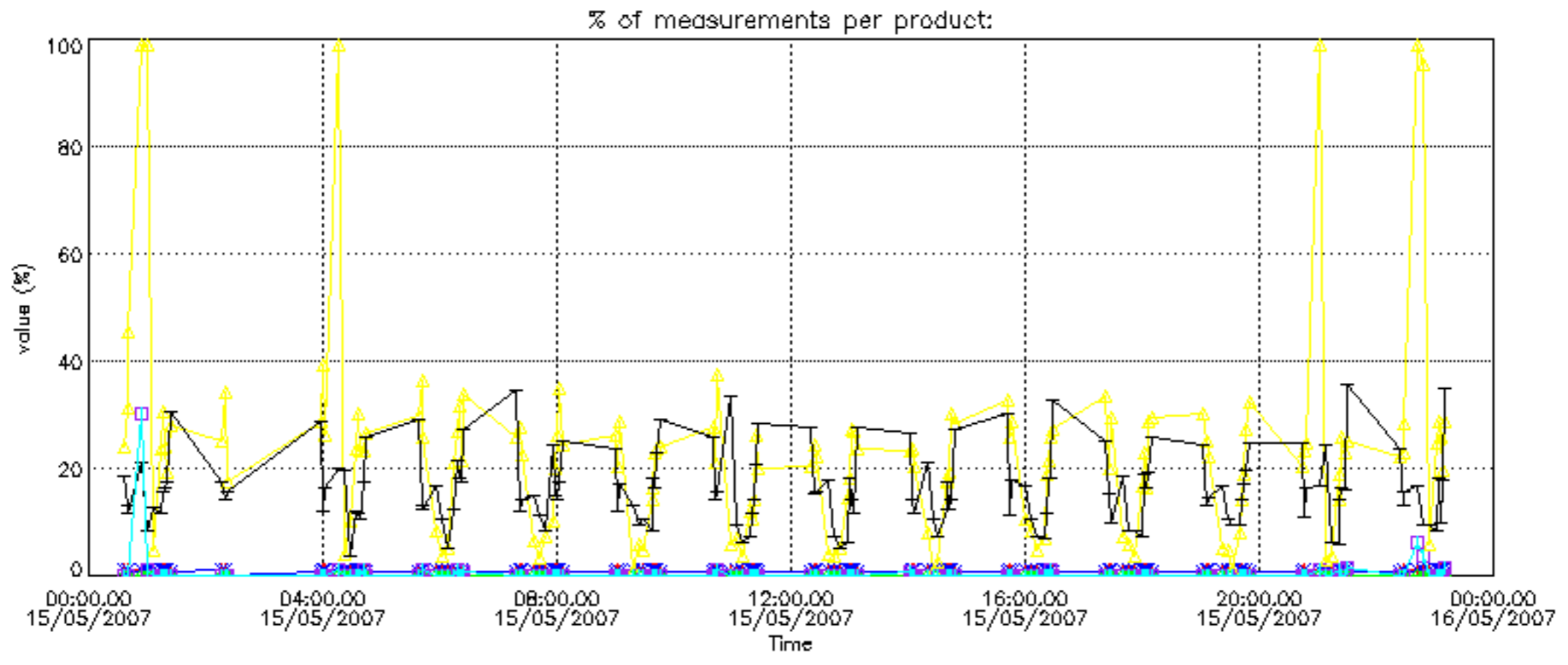


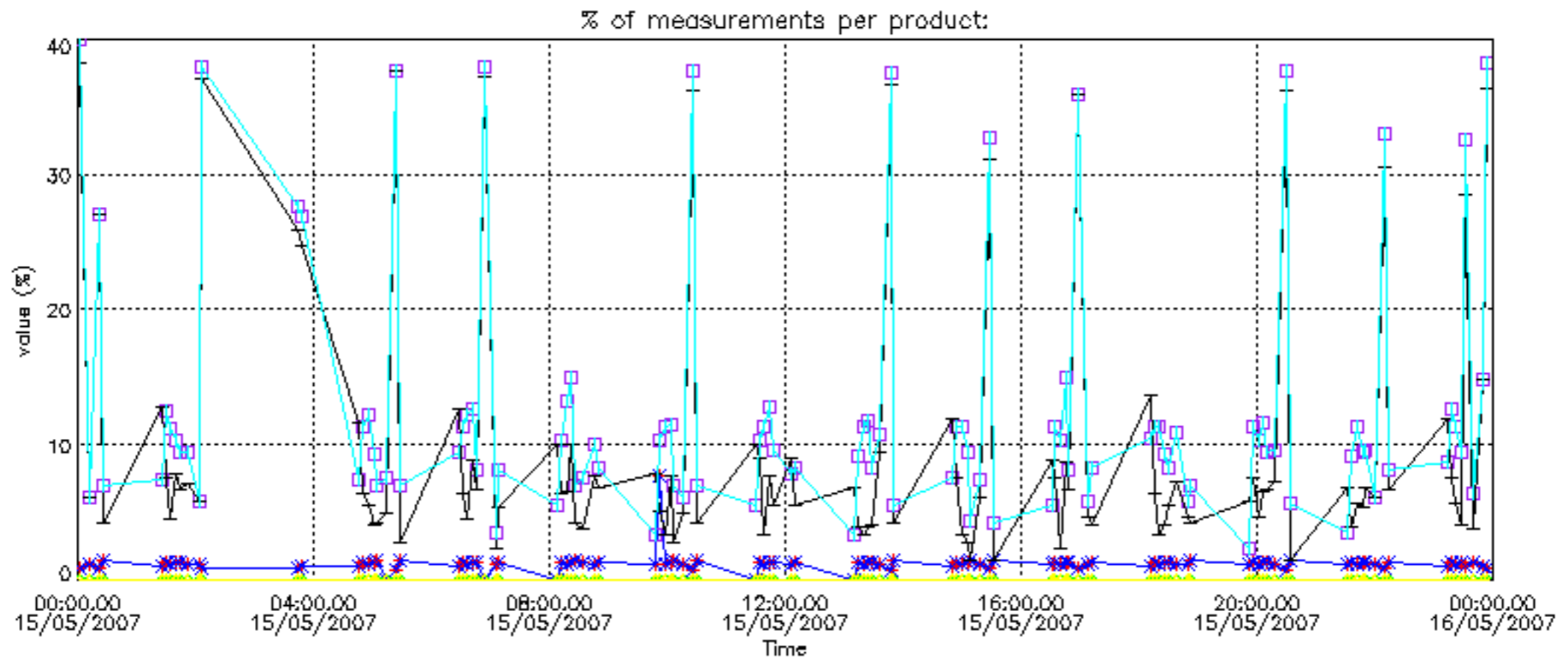
Percentage of flagged data per NO2 profile



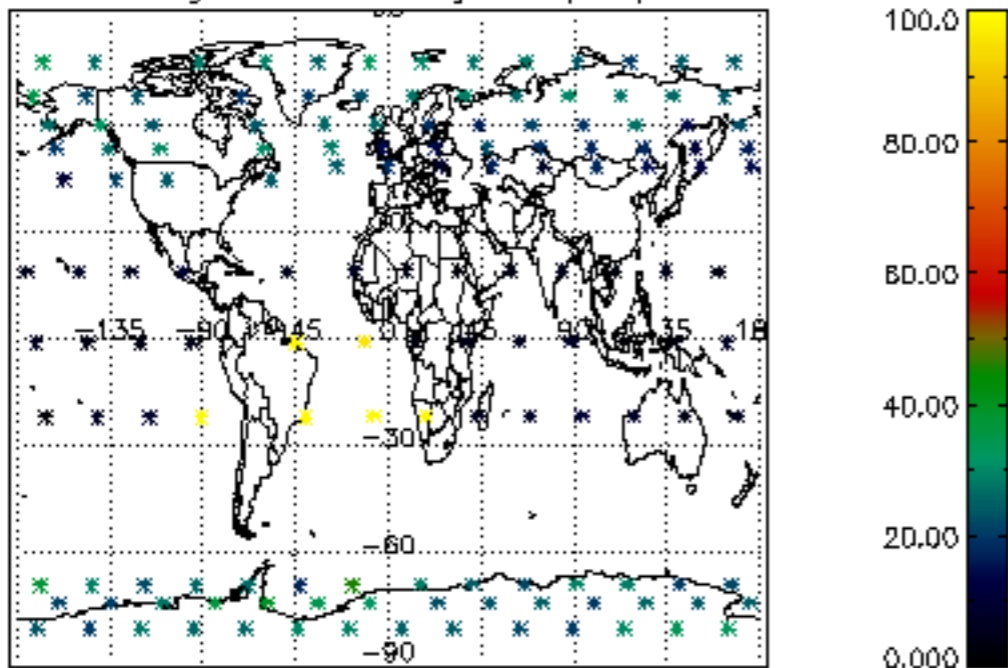
Percentage of flagged data per NO3 profile



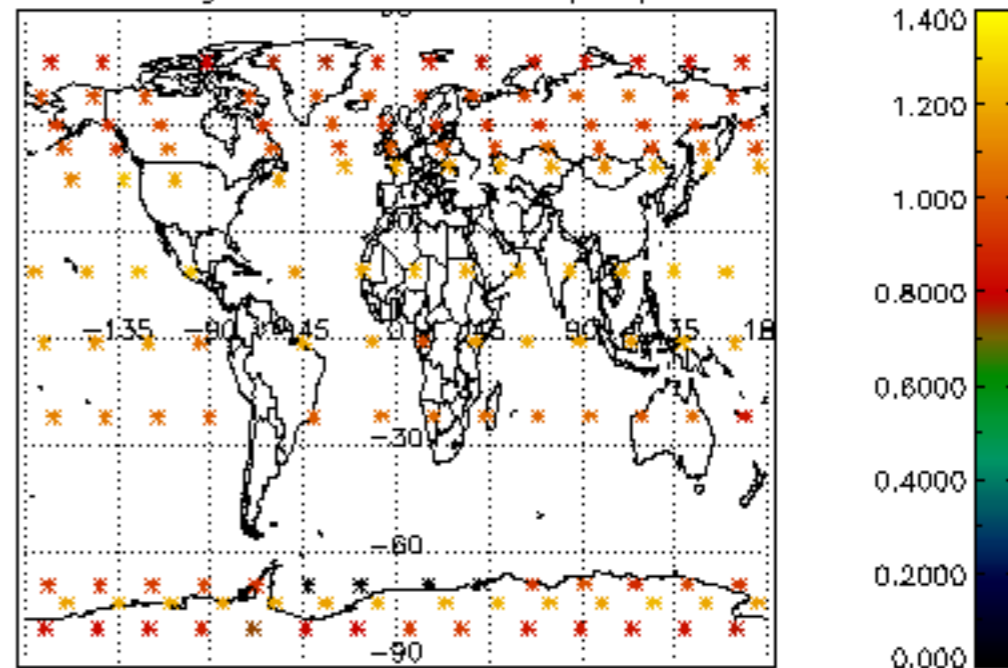




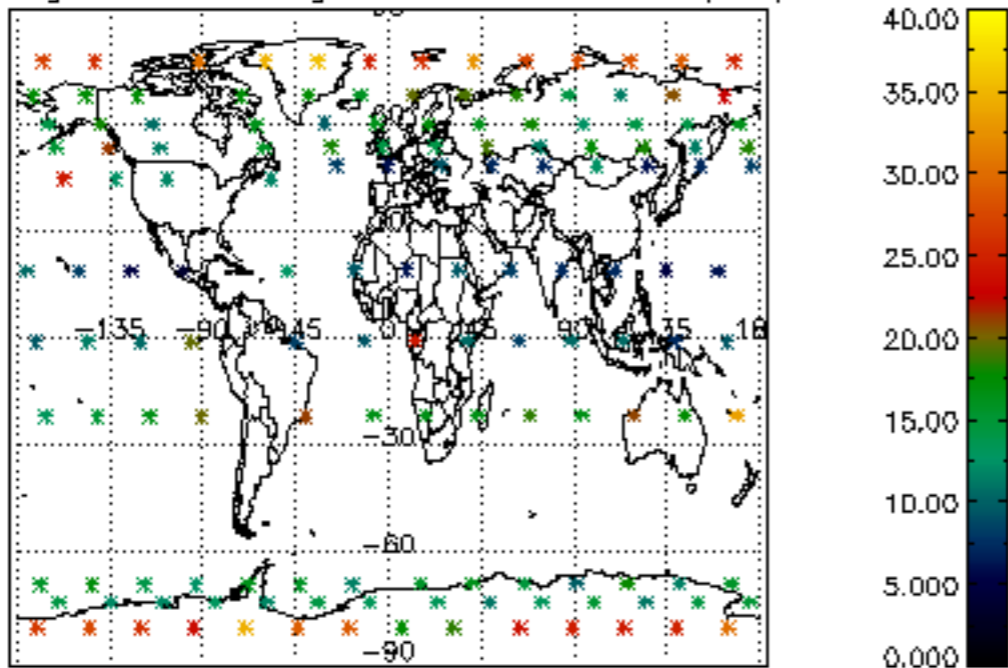
Percentage of cosmic ray hits per profile



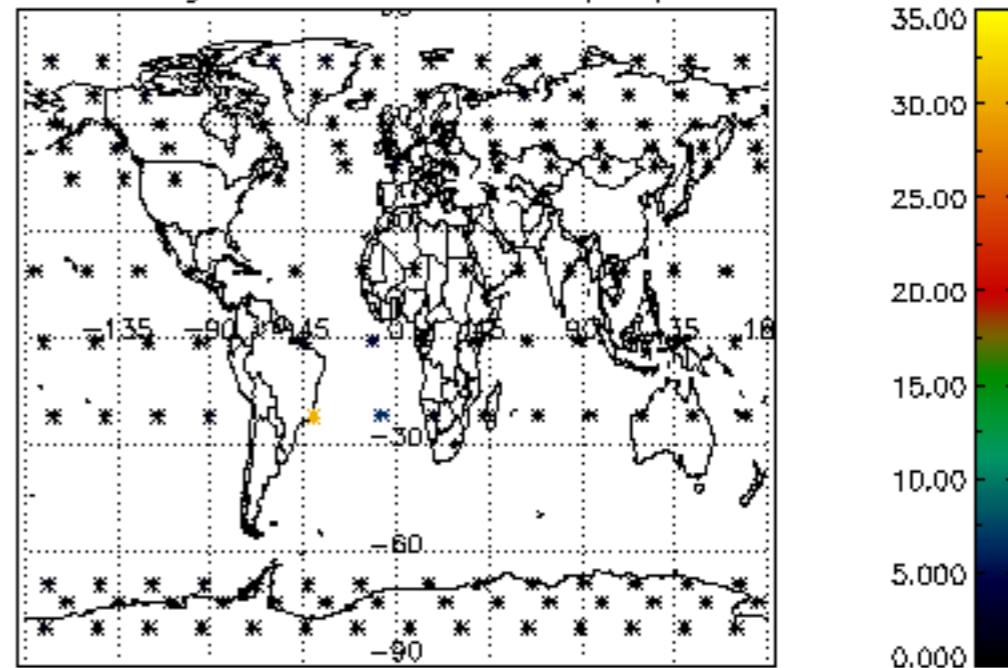
Percentage of datation errors per profile



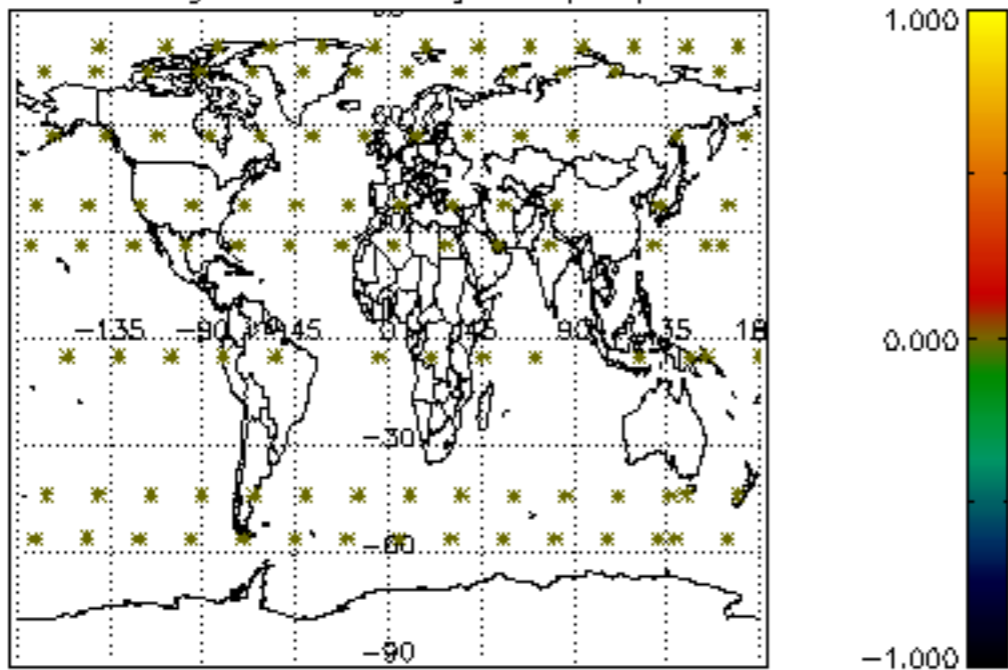
Percentage of star falling outside central band per profile



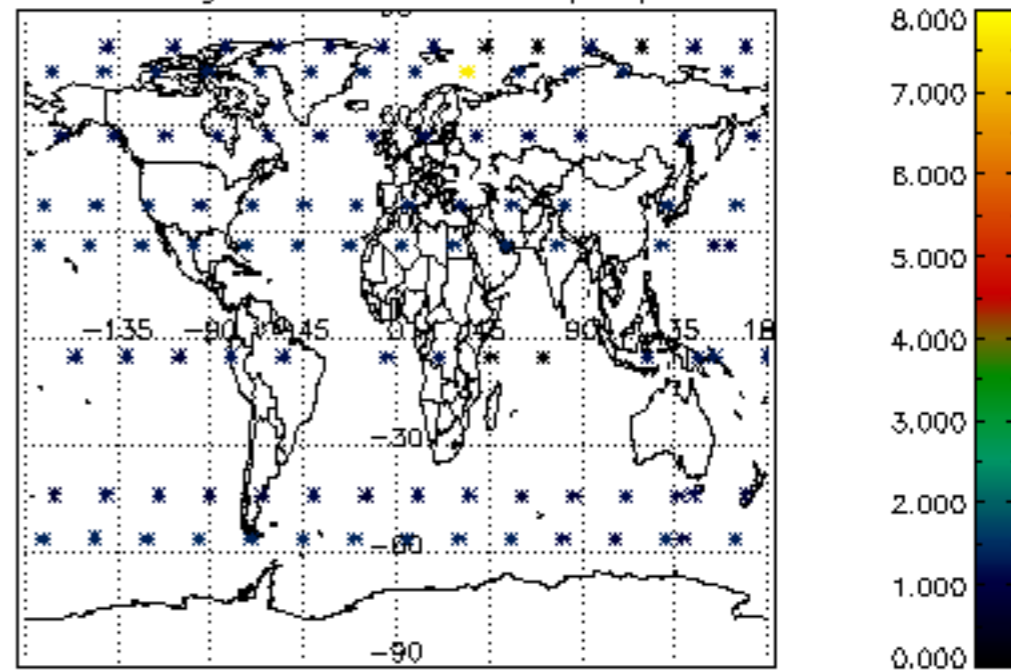
Percentage of saturation errors per profile



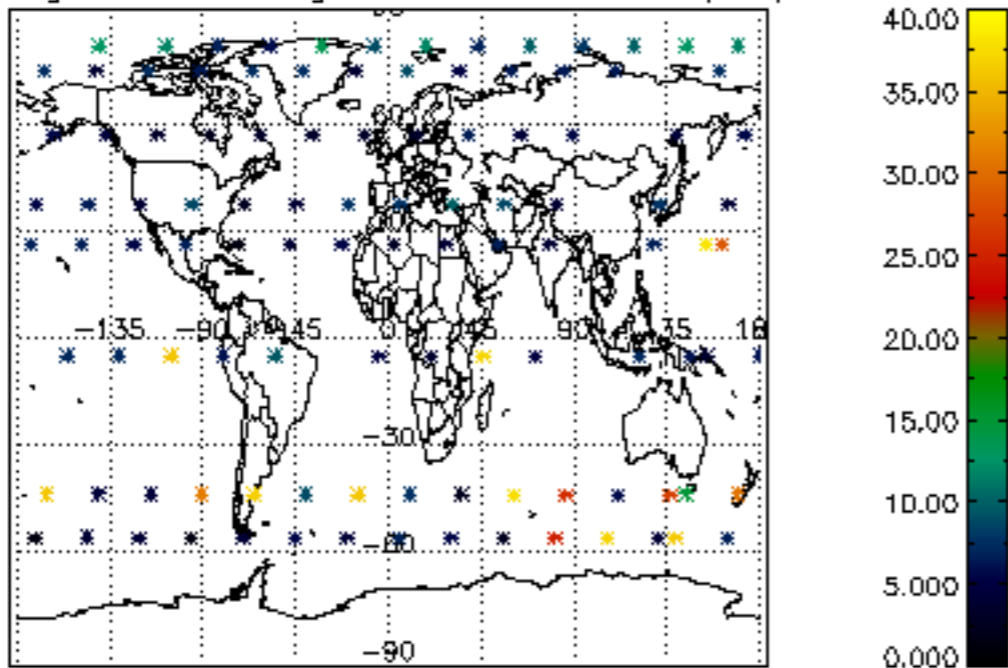
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

