

GOMOS Level 2 Daily Report

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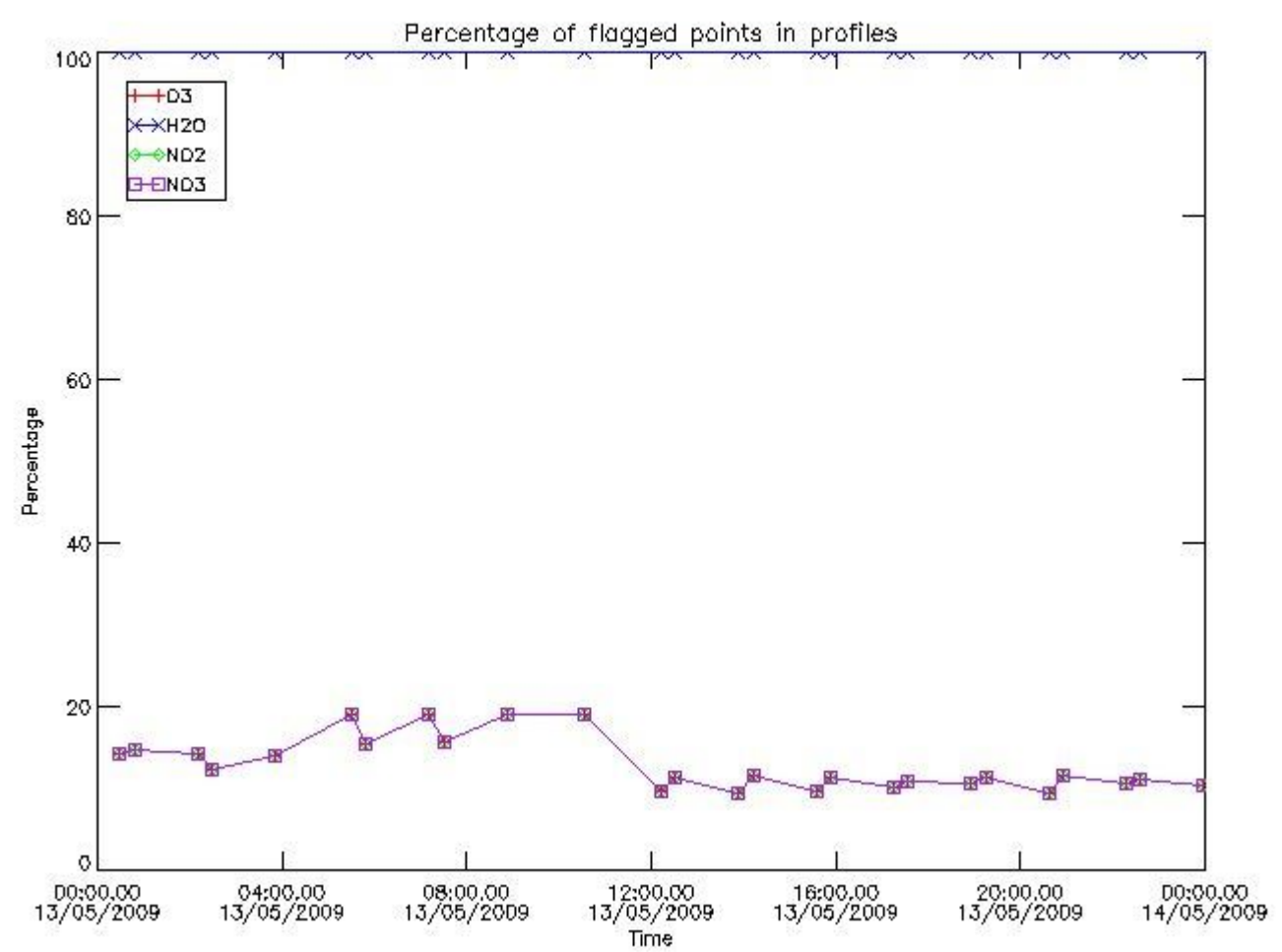
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161	GOM_NL__2PRFIN20090513_211525_000000552079_00029_37658_4787.N1	13-MAY-2009 21:15:25	Straylight	54.500	75	26Eps Sco	2.2910	4250.0	109	37658	No
162	GOM_NL__2PRFIN20090513_211835_000000582079_00029_37658_4788.N1	13-MAY-2009 21:18:35	Twilight_stray	58.000	16	21Alp Sco	1.0200	3000.0	116	37658	No
163	GOM_NL__2PRFIN20090513_212022_000000532079_00029_37658_4789.N1	13-MAY-2009 21:20:22	Bright	52.500	80	7Del Sco	2.3160	30000.	105	37658	No
164	GOM_NL__2PRFIN20090513_212718_000000522079_00029_37658_4790.N1	13-MAY-2009 21:27:18	Bright	51.500	120	1Del Oph	2.7340	3200.0	103	37658	No
165	GOM_NL__2PRFIN20090513_213030_000000452079_00029_37658_4791.N1	13-MAY-2009 21:30:30	Bright	44.500	102	24Alp Ser	2.6000	4250.0	89	37658	No
166	GOM_NL__2PRFIN20090513_213700_000000452079_00029_37658_4792.N1	13-MAY-2009 21:37:00	Bright	45.000	67	5Alp CrB	2.2210	11000.	90	37658	No
167	GOM_NL__2PRFIN20090513_214800_000000432079_00029_37658_4793.N1	13-MAY-2009 21:48:00	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	37658	No
168	GOM_NL__2PRFIN20090513_215855_000000442079_00029_37658_4794.N1	13-MAY-2009 21:58:55	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	37658	No
169	GOM_NL__2PRFIN20090513_221227_000000652079_00029_37658_4795.N1	13-MAY-2009 22:12:27	Twilight_stray	64.500	93	53Bet Peg	2.5200	3100.0	129	37658	No
170	GOM_NL__2PRFIN20090513_221701_000000532079_00029_37658_4796.N1	13-MAY-2009 22:17:01	Dark	53.000	90	54Alp Peg	2.4870	11000.	106	37658	No
171	GOM_NL__2PRFIN20090513_223533_000000462079_00029_37658_4797.N1	13-MAY-2009 22:35:33	Dark	45.500	172	Gam Gru	3.0030	13100.	91	37658	No
172	GOM_NL__2PRFIN20090513_225157_000000452079_00030_37659_4799.N1	13-MAY-2009 22:51:57	Straylight	45.000	38	20Eps Sgr	1.8360	11000.	90	37659	No
173	GOM_NL__2PRFIN20090513_225335_000000552079_00030_37659_4800.N1	13-MAY-2009 22:53:35	Straylight	54.500	25	35Lam Sco	1.6200	28000.	109	37659	No
174	GOM_NL__2PRFIN20090513_225601_000000522079_00030_37659_4801.N1	13-MAY-2009 22:56:01	Straylight	52.000	75	26Eps Sco	2.2910	4250.0	104	37659	No
175	GOM_NL__2PRFIN20090513_225911_000000572079_00030_37659_4802.N1	13-MAY-2009 22:59:11	Twilight_stray	56.500	16	21Alp Sco	1.0200	3000.0	113	37659	No
176	GOM_NL__2PRFIN20090513_230058_000000502079_00030_37659_4803.N1	13-MAY-2009 23:00:58	Bright	49.500	80	7Del Sco	2.3160	30000.	99	37659	No
177	GOM_NL__2PRFIN20090513_230753_000000512079_00030_37659_4804.N1	13-MAY-2009 23:07:53	Bright	51.000	120	1Del Oph	2.7340	3200.0	102	37659	No
178	GOM_NL__2PRFIN20090513_231106_000000452079_00030_37659_4805.N1	13-MAY-2009 23:11:06	Bright	45.000	102	24Alp Ser	2.6000	4250.0	90	37659	No
179	GOM_NL__2PRFIN20090513_231736_000000492079_00030_37659_4806.N1	13-MAY-2009 23:17:36	Bright	49.000	67	5Alp CrB	2.2210	11000.	98	37659	No
180	GOM_NL__2PRFIN20090513_232836_000000432079_00030_37659_4807.N1	13-MAY-2009 23:28:36	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	37659	No
181	GOM_NL__2PRFIN20090513_233931_000000432079_00030_37659_4808.N1	13-MAY-2009 23:39:31	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	37659	No
182	GOM_NL__2PRFIN20090513_235303_000000582079_00030_37659_4809.N1	13-MAY-2009 23:53:03	Twilight_stray	58.000	93	53Bet Peg	2.5200	3100.0	116	37659	No
183	GOM_NL__2PRFIN20090513_235737_000000542079_00030_37659_4810.N1	13-MAY-2009 23:57:37	Dark	53.500	90	54Alp Peg	2.4870	11000.	107	37659	No

3. Quality information per product

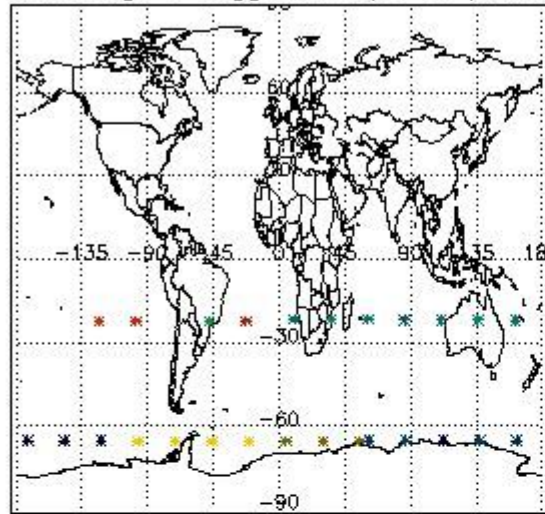
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

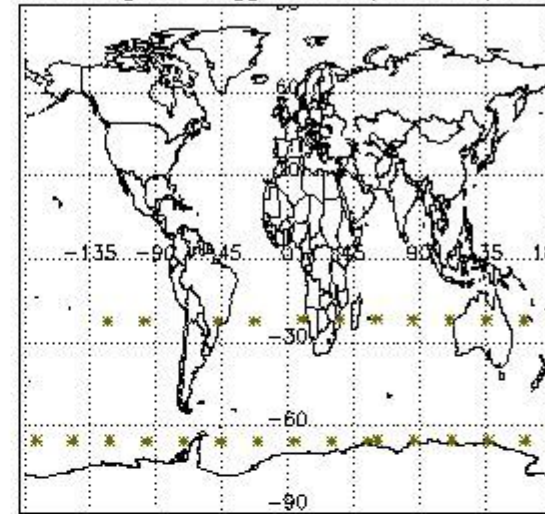


3.2 Plot quality information per product (world map)

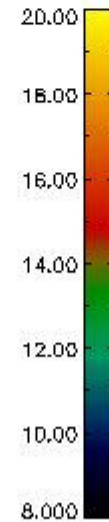
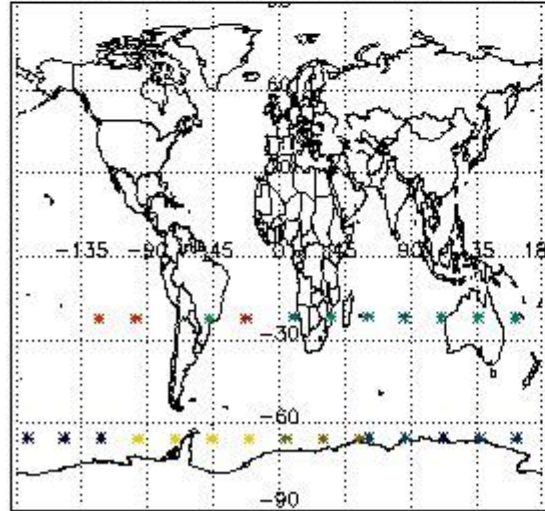
Percentage of flagged data per O3 profile



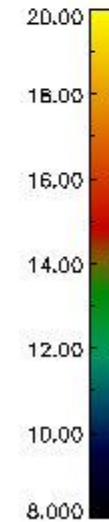
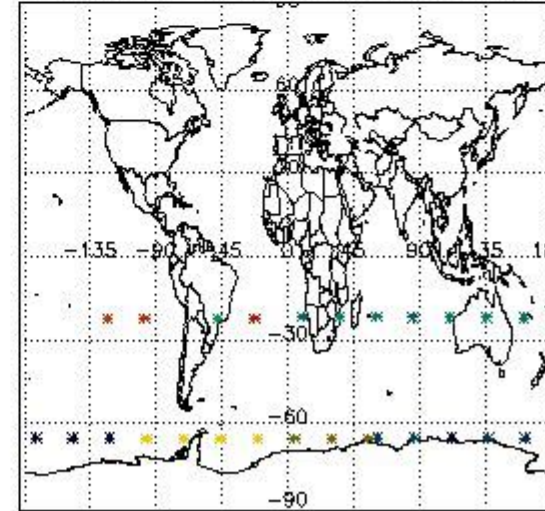
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

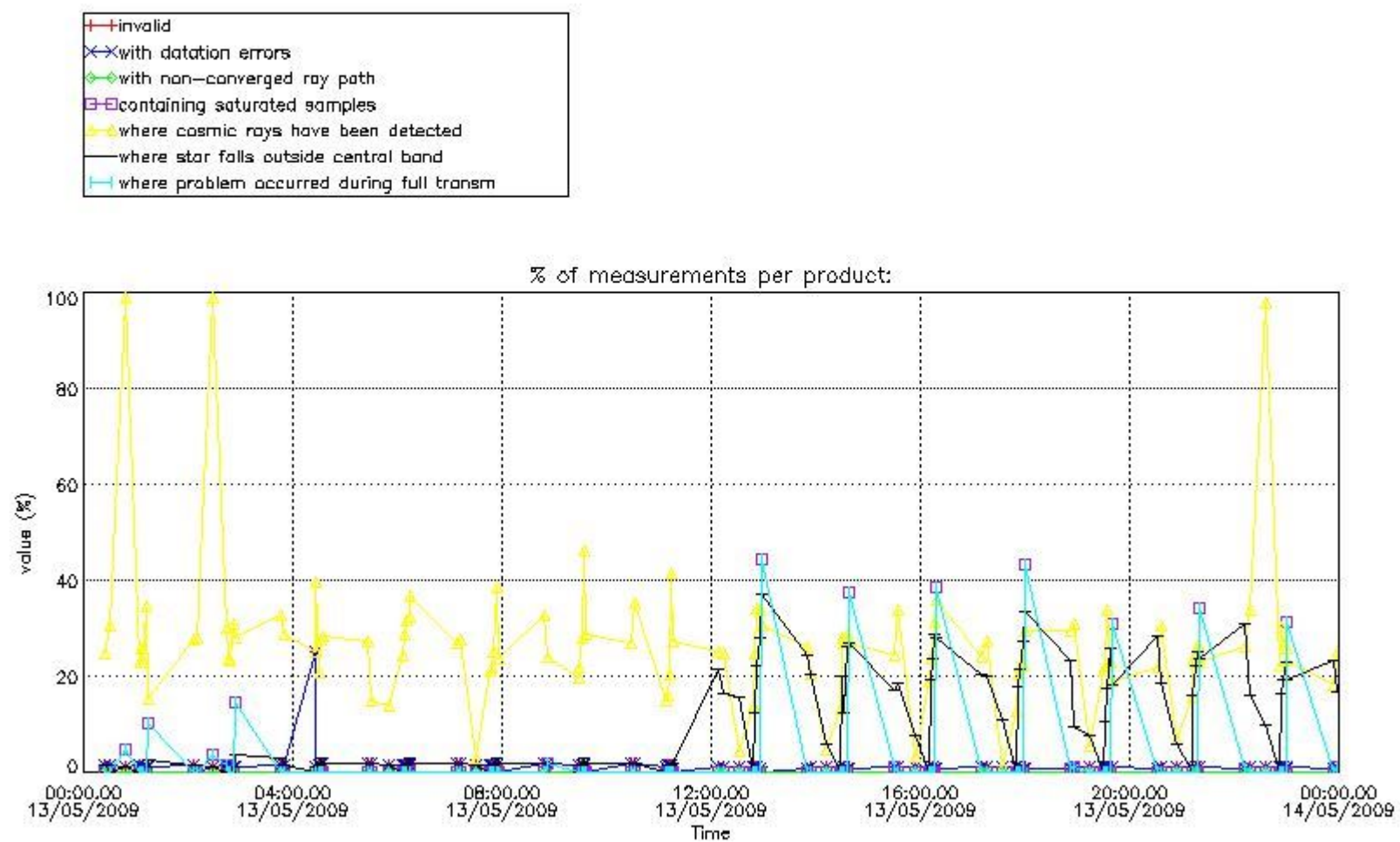


4. Level 1 quality information per product

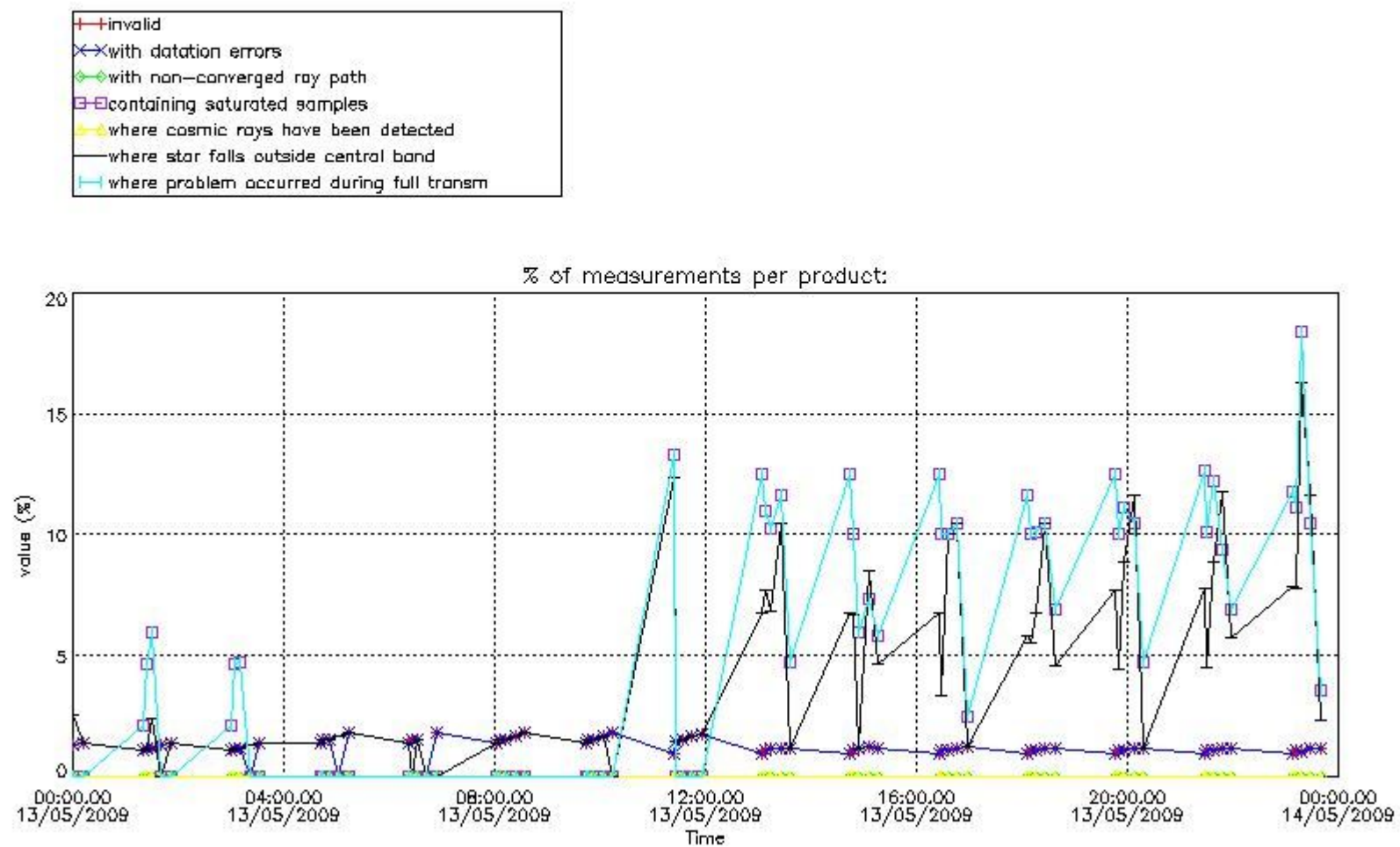
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

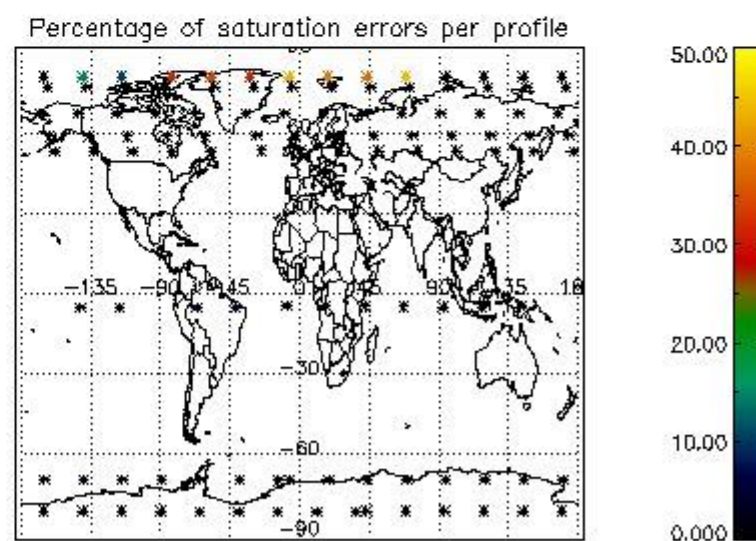
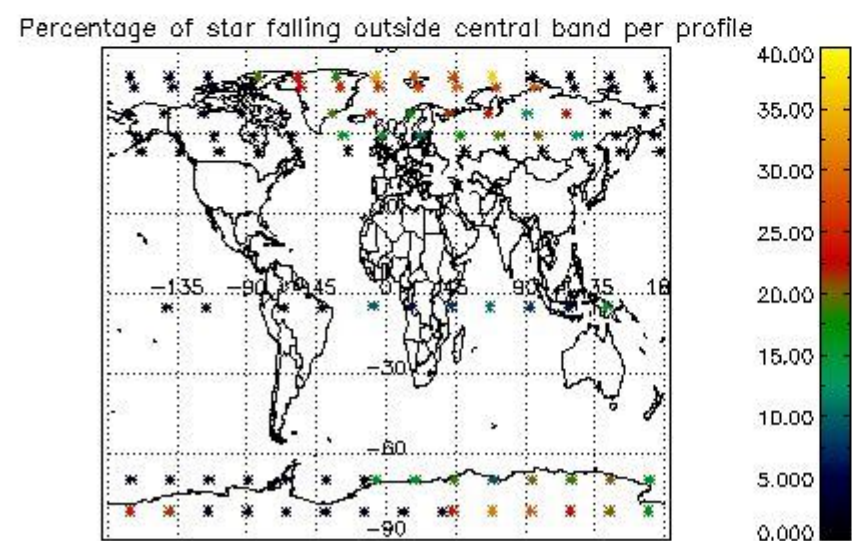
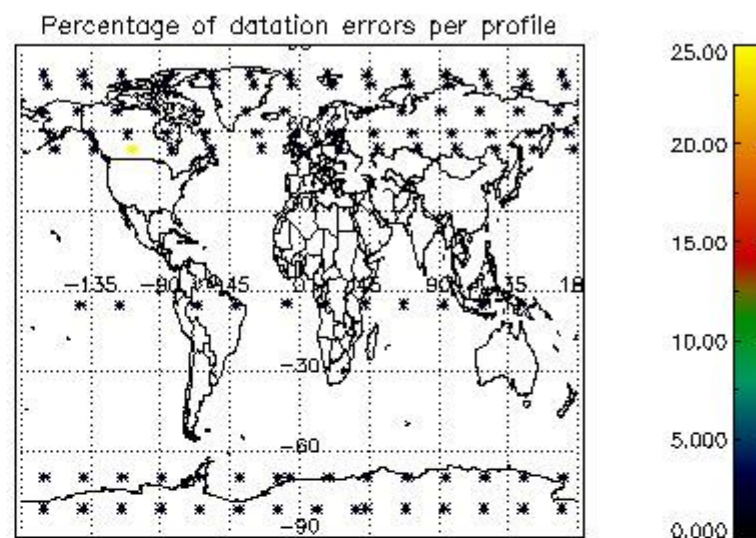
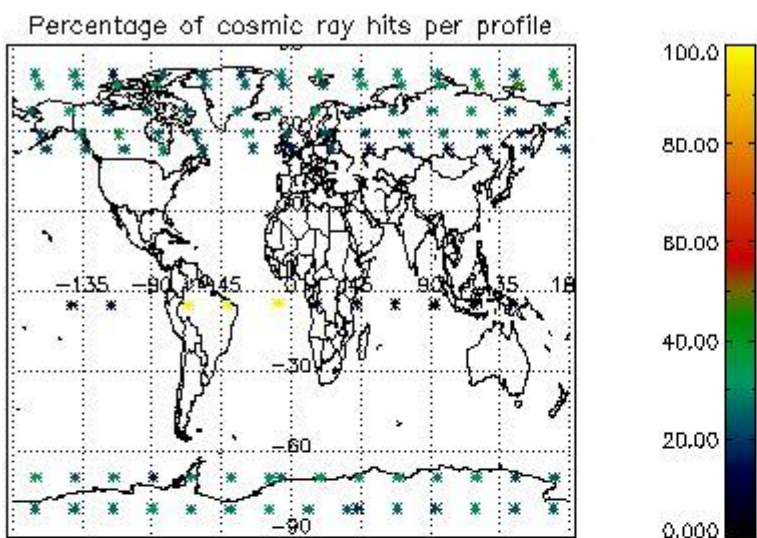


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

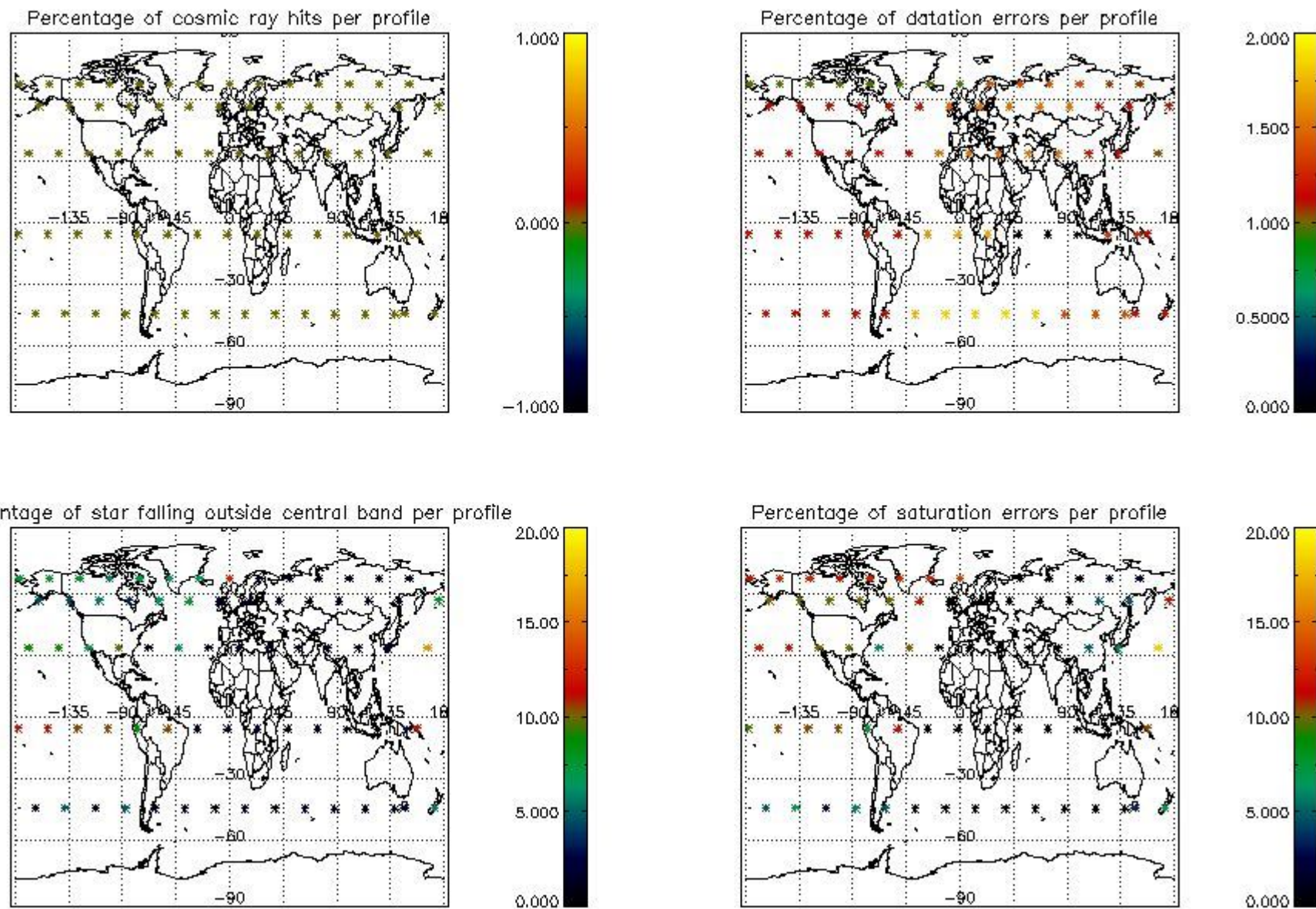


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

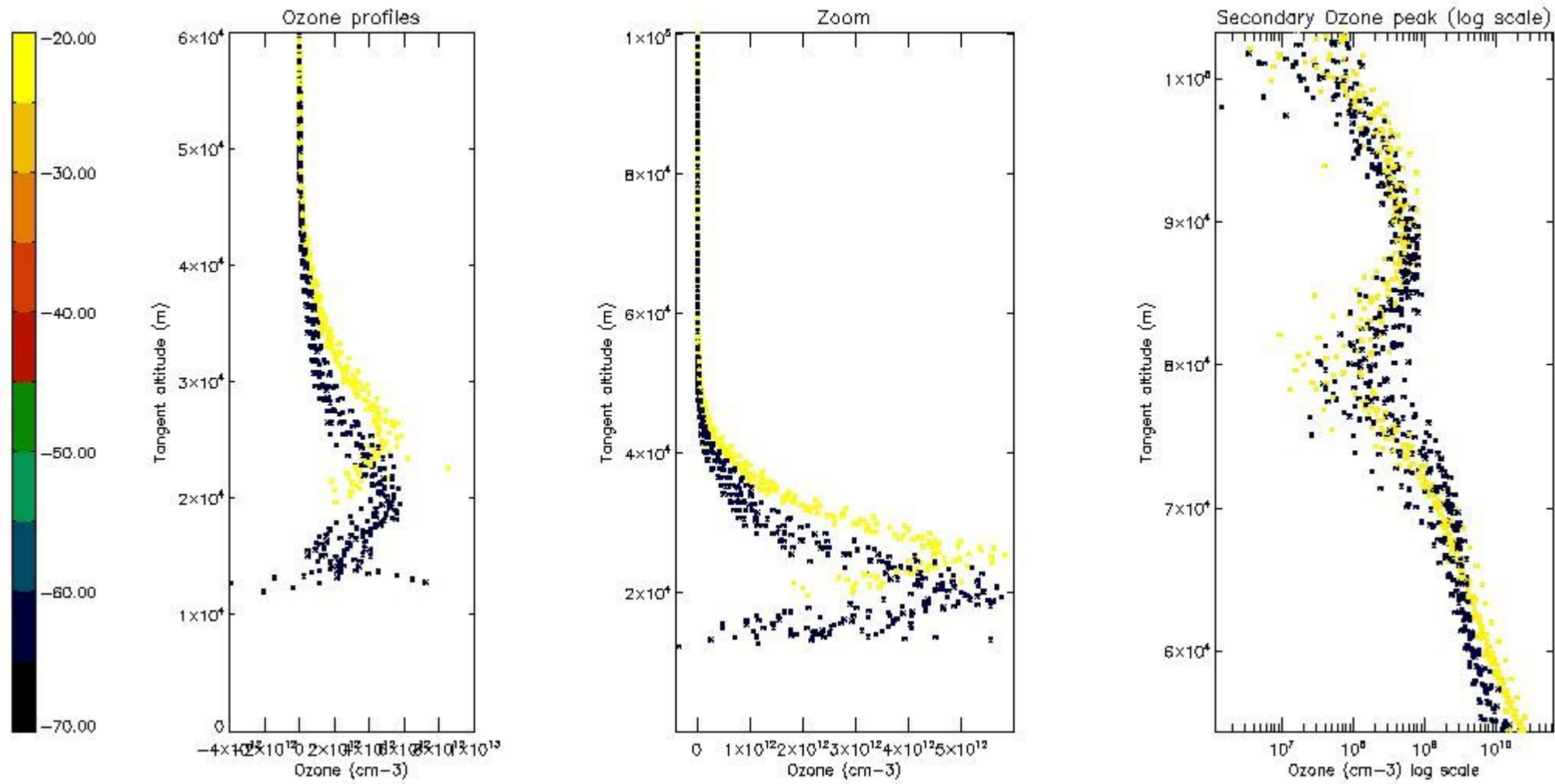
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	15
STD < 20	7

STD < 10	6
STD < 5	1

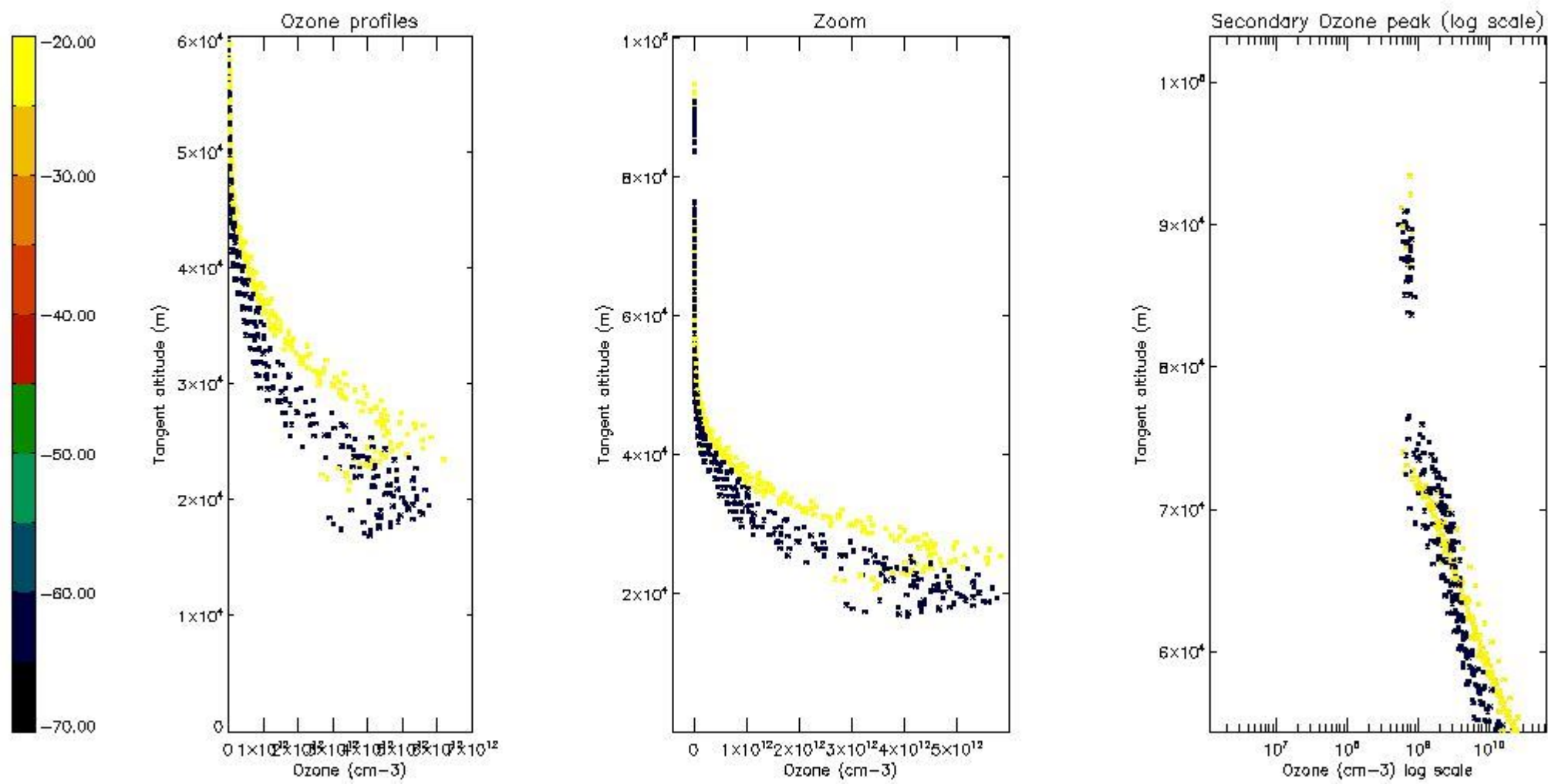
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



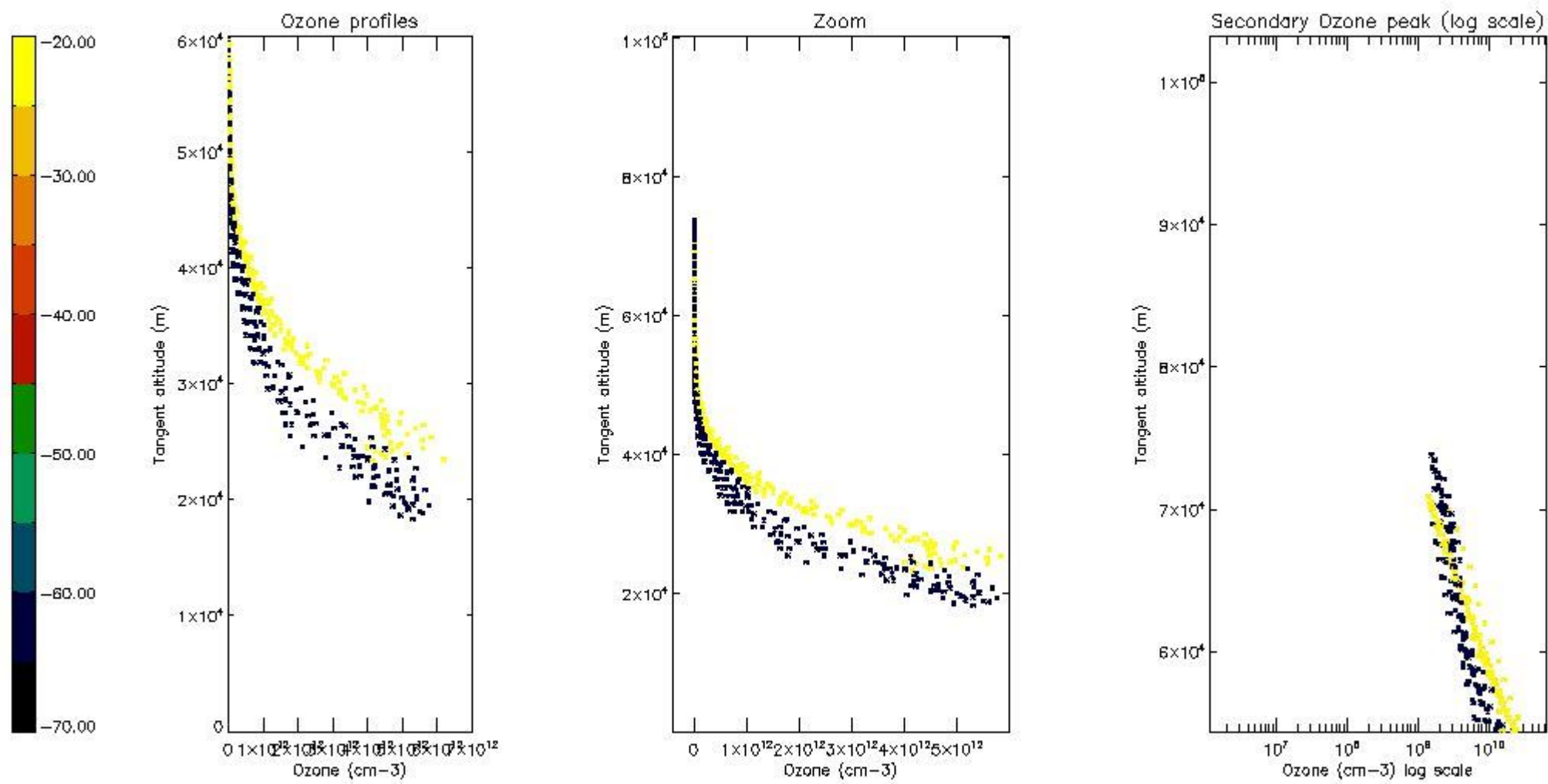
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



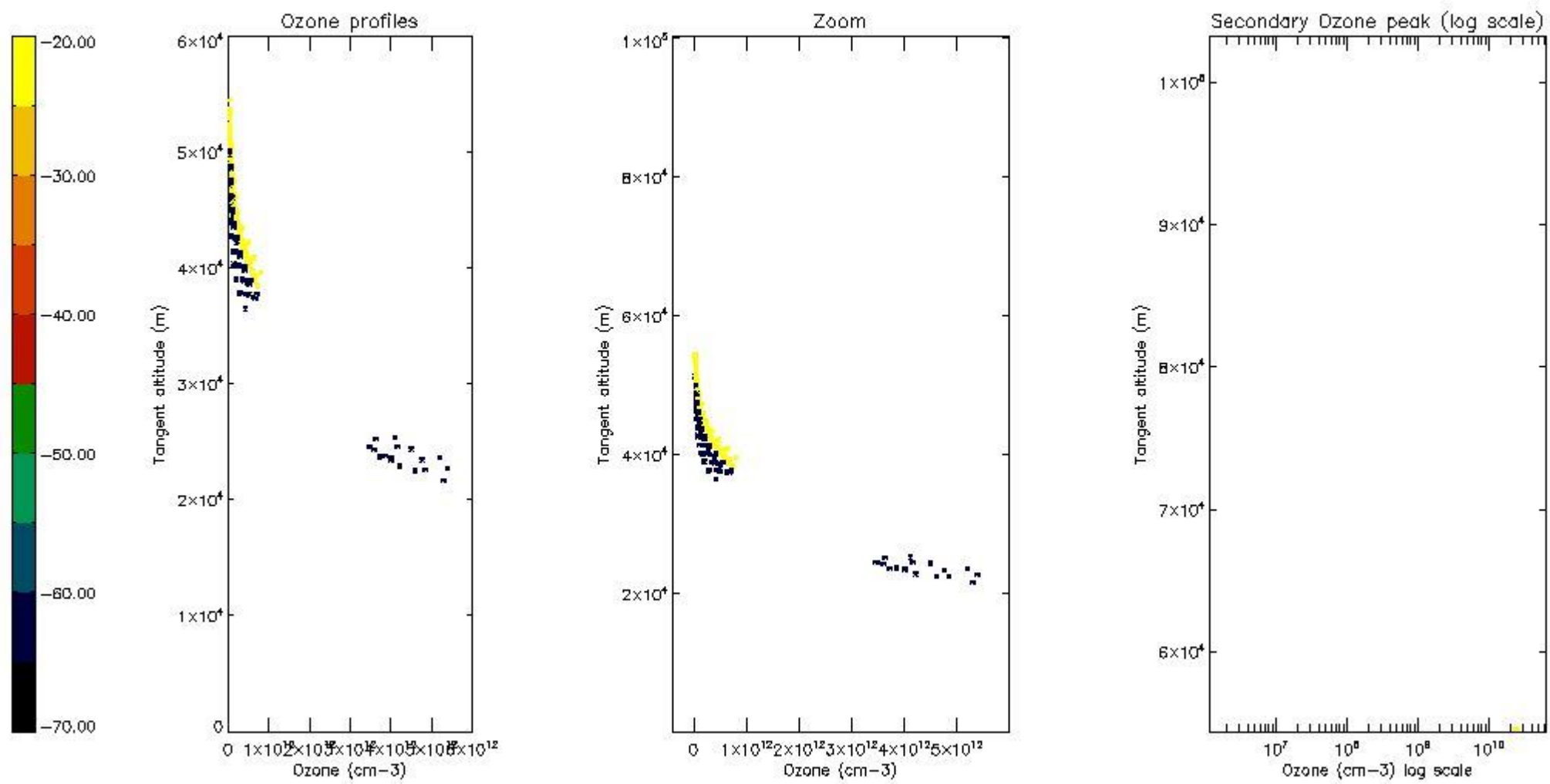
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



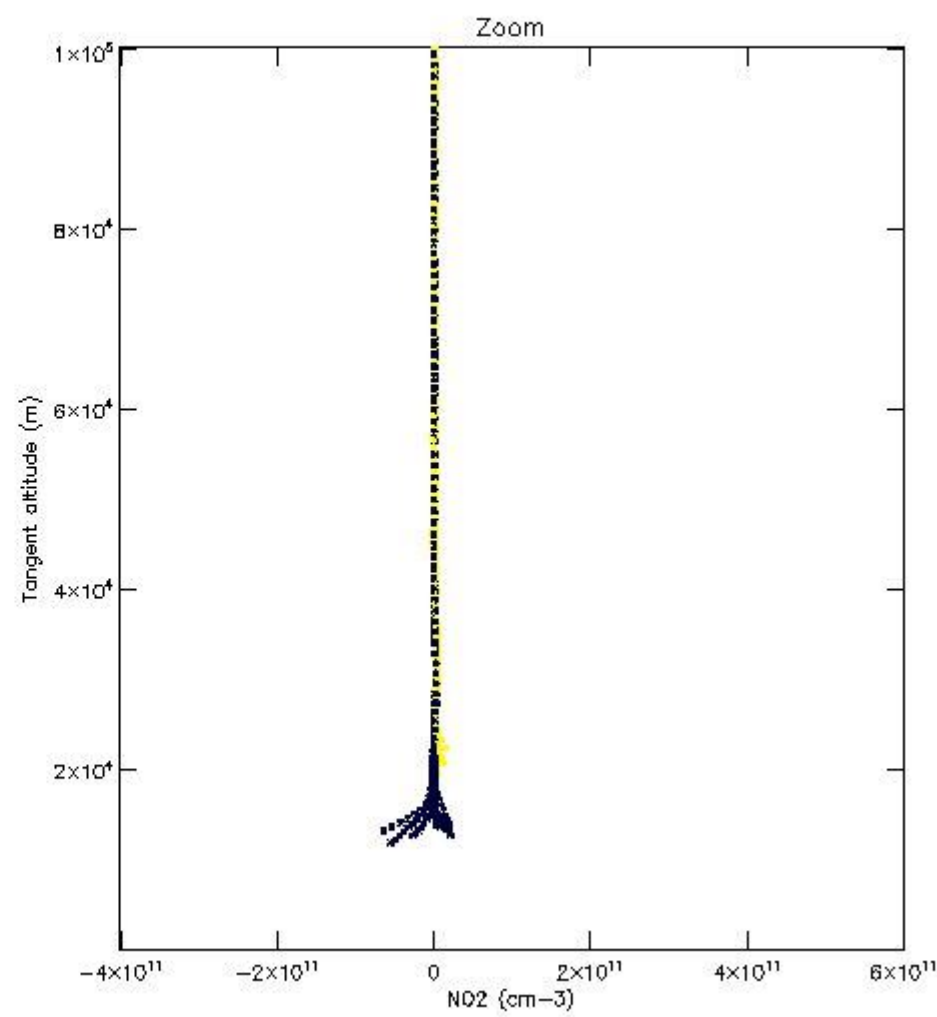
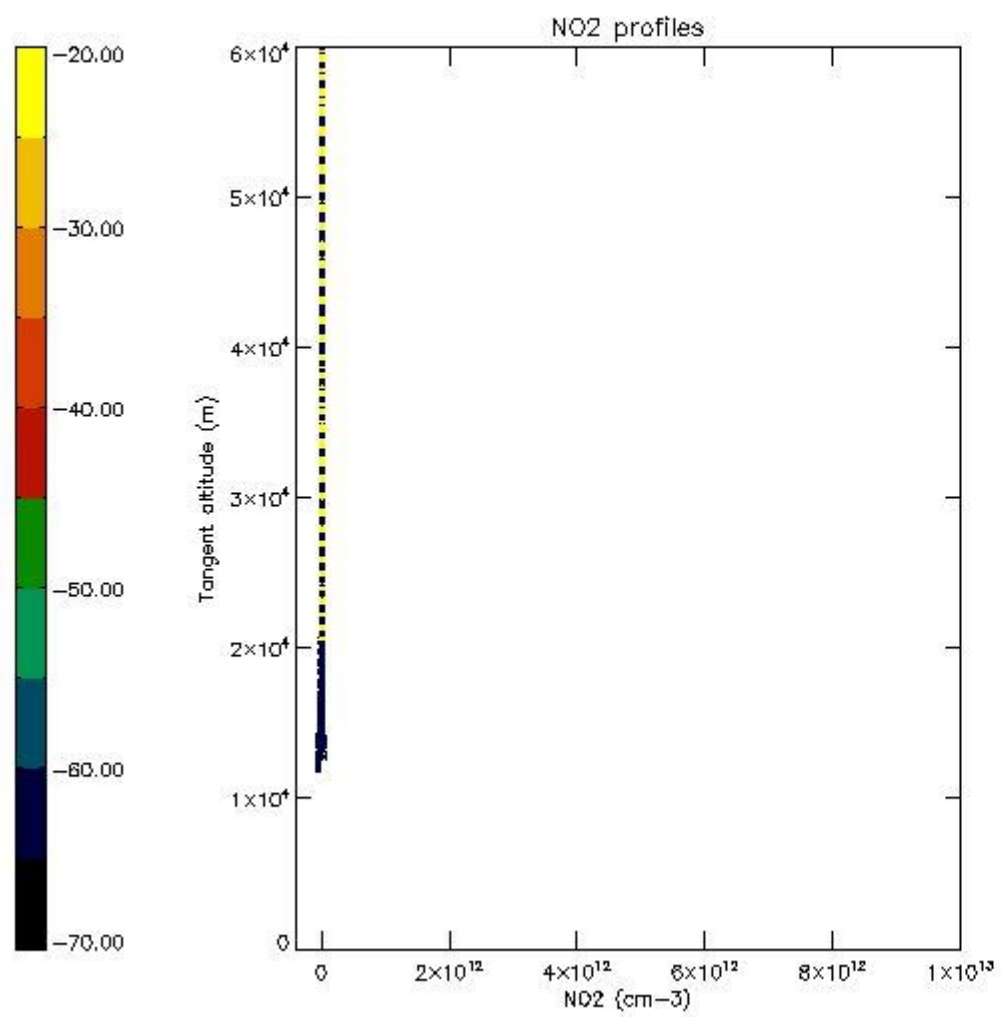
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



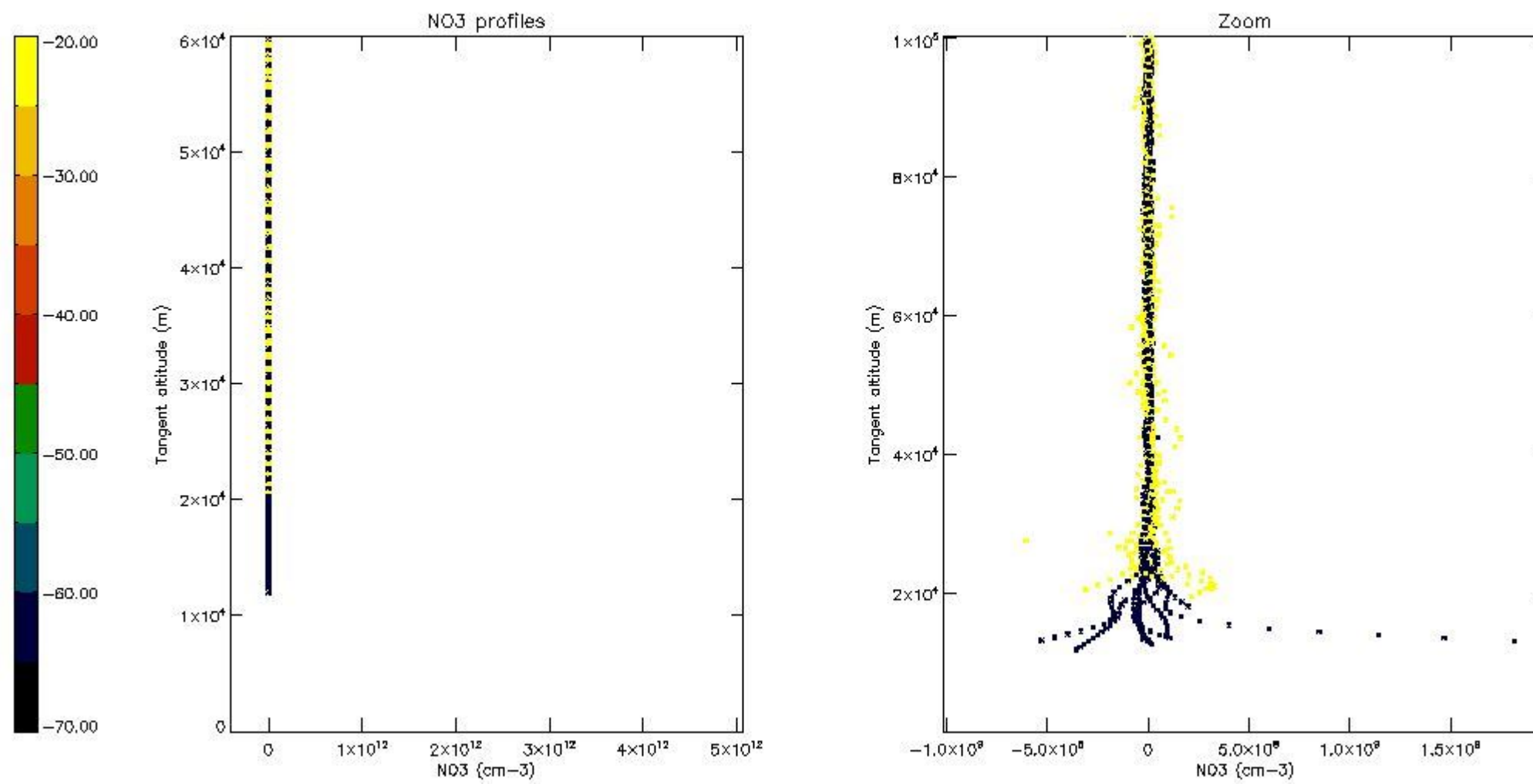
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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	13-MAY-2009 00:00:20
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-MAY-2009 00:00:20
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-MAY-2009 00:00:20

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[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	26APR2013 09:28:37
Data source version	GOMOS/6.01
Start time of products	13-05-2009 (13MAY2009 00:00:00)
Stop time of products	14-05-2009 (14MAY2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	183
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

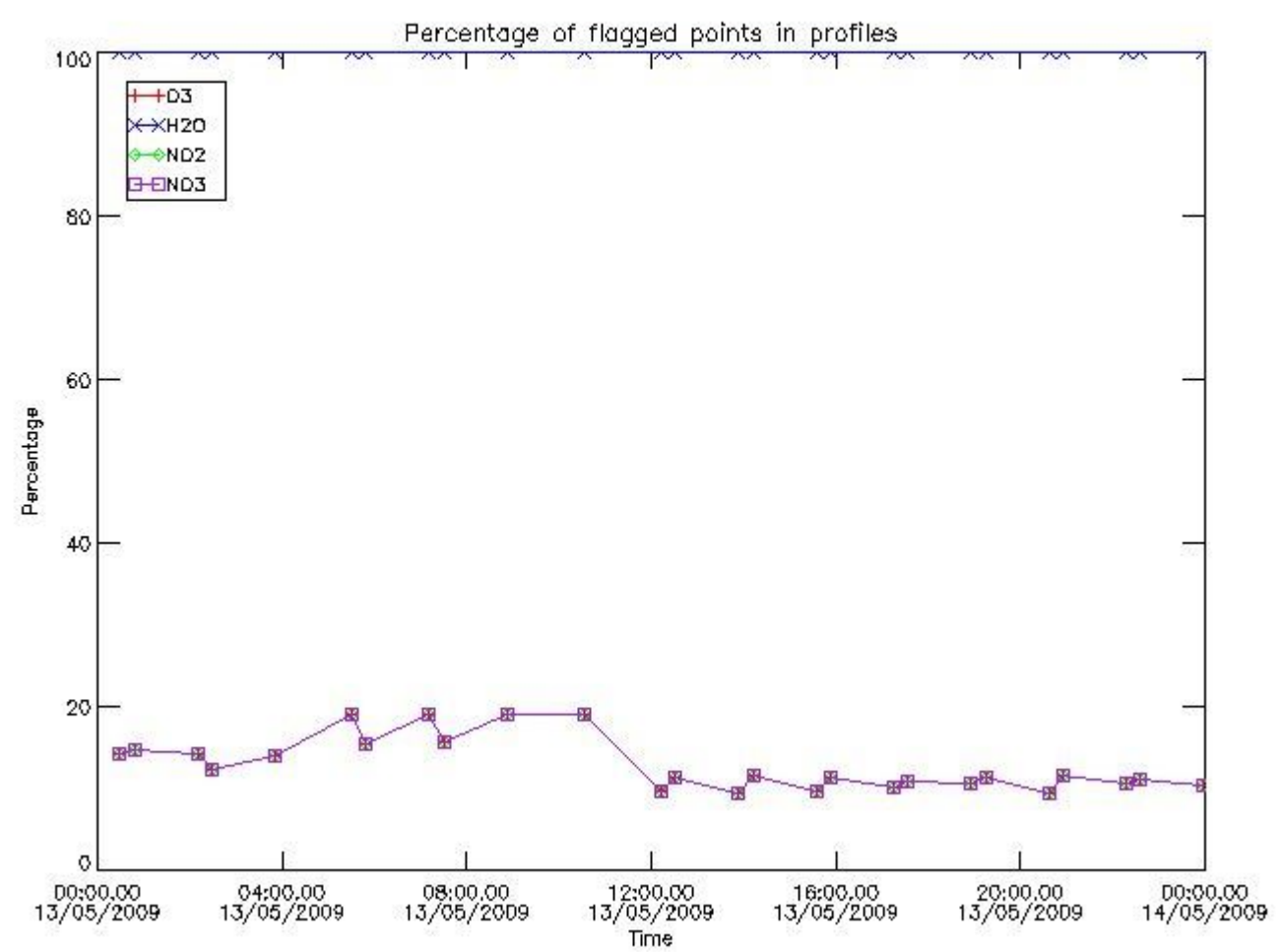
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090513_000020_000000392079_00016_37645_4572.N1	13-MAY-2009 00:00:20	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	37645	No
2	GOM_NL__2PRFIN20090513_001114_000000362079_00016_37645_4573.N1	13-MAY-2009 00:11:14	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	37645	No
3	GOM_NL__2PRFIN20090513_002437_000000352079_00016_37645_4574.N1	13-MAY-2009 00:24:37	Twilight	34.500	93	53Bet Peg	2.5200	3100.0	69	37645	No
4	GOM_NL__2PRFIN20090513_002908_000000362079_00016_37645_4575.N1	13-MAY-2009 00:29:08	Dark	36.000	90	54Alp Peg	2.4870	11000.	72	37645	No
5	GOM_NL__2PRFIN20090513_004733_000000422079_00016_37645_4576.N1	13-MAY-2009 00:47:33	Dark	41.500	172	Gam Gru	3.0030	13100.	83	37645	No
6	GOM_NL__2PRFIN20090513_010357_000000352079_00017_37646_4580.N1	13-MAY-2009 01:03:57	Straylight	35.000	38	20Eps Sgr	1.8360	11000.	70	37646	No
7	GOM_NL__2PRFIN20090513_010539_000000452079_00017_37646_4581.N1	13-MAY-2009 01:05:39	Straylight	44.500	25	35Lam Sco	1.6200	28000.	89	37646	No
8	GOM_NL__2PRFIN20090513_010807_000000422079_00017_37646_4582.N1	13-MAY-2009 01:08:07	Straylight	41.500	75	26Eps Sco	2.2910	4250.0	83	37646	No
9	GOM_NL__2PRFIN20090513_011120_000000422079_00017_37646_4583.N1	13-MAY-2009 01:11:20	Twilight	42.000	16	21Alp Sco	1.0200	3000.0	84	37646	No
10	GOM_NL__2PRFIN20090513_011308_000000402079_00017_37646_4584.N1	13-MAY-2009 01:13:08	Bright	39.500	80	7Del Sco	2.3160	30000.	79	37646	No
11	GOM_NL__2PRFIN20090513_012009_000000472079_00017_37646_4585.N1	13-MAY-2009 01:20:09	Bright	47.000	120	1Del Oph	2.7340	3200.0	94	37646	No
12	GOM_NL__2PRFIN20090513_012323_000000432079_00017_37646_4586.N1	13-MAY-2009 01:23:23	Bright	43.000	102	24Alp Ser	2.6000	4250.0	86	37646	No
13	GOM_NL__2PRFIN20090513_012956_000000422079_00017_37646_4587.N1	13-MAY-2009 01:29:56	Bright	42.000	67	5Alp CrB	2.2210	11000.	84	37646	No
14	GOM_NL__2PRFIN20090513_014055_000000382079_00017_37646_4588.N1	13-MAY-2009 01:40:55	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	37646	No
15	GOM_NL__2PRFIN20090513_015149_000000362079_00017_37646_4589.N1	13-MAY-2009 01:51:49	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	37646	No
16	GOM_NL__2PRFIN20090513_020513_000000352079_00017_37646_4590.N1	13-MAY-2009 02:05:13	Twilight	34.500	93	53Bet Peg	2.5200	3100.0	69	37646	No
17	GOM_NL__2PRFIN20090513_020944_000000362079_00017_37646_4591.N1	13-MAY-2009 02:09:44	Dark	35.500	90	54Alp Peg	2.4870	11000.	71	37646	No
18	GOM_NL__2PRFIN20090513_022810_000000422079_00017_37646_4592.N1	13-MAY-2009 02:28:10	Dark	41.500	172	Gam Gru	3.0030	13100.	83	37646	No
19	GOM_NL__2PRFIN20090513_024434_000000352079_00018_37647_4592.N1	13-MAY-2009 02:44:34	Straylight	35.000	38	20Eps Sgr	1.8360	11000.	70	37647	No
20	GOM_NL__2PRFIN20090513_024615_000000452079_00018_37647_4593.N1	13-MAY-2009 02:46:15	Straylight	44.500	25	35Lam Sco	1.6200	28000.	89	37647	No
21	GOM_NL__2PRFIN20090513_024844_000000412079_00018_37647_4594.N1	13-MAY-2009 02:48:44	Straylight	41.000	75	26Eps Sco	2.2910	4250.0	82	37647	No
22	GOM_NL__2PRFIN20090513_025156_000000422079_00018_37647_4595.N1	13-MAY-2009 02:51:56	Twilight	42.000	16	21Alp Sco	1.0200	3000.0	84	37647	No
23	GOM_NL__2PRFIN20090513_025344_000000412079_00018_37647_4596.N1	13-MAY-2009 02:53:44	Bright	41.000	80	7Del Sco	2.3160	30000.	82	37647	No
24	GOM_NL__2PRFIN20090513_030045_000000472079_00018_37647_4597.N1	13-MAY-2009 03:00:45	Bright	47.000	120	1Del Oph	2.7340	3200.0	94	37647	No
25	GOM_NL__2PRFIN20090513_030358_000000432079_00018_37647_4598.N1	13-MAY-2009 03:03:58	Bright	43.000	102	24Alp Ser	2.6000	4250.0	86	37647	No
26	GOM_NL__2PRFIN20090513_031031_000000422079_00018_37647_4599.N1	13-MAY-2009 03:10:31	Bright	42.000	67	5Alp CrB	2.2210	11000.	84	37647	No
27	GOM_NL__2PRFIN20090513_032130_000000382079_00018_37647_4600.N1	13-MAY-2009 03:21:30	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	37647	No
28	GOM_NL__2PRFIN20090513_033225_000000362079_00018_37647_4601.N1	13-MAY-2009 03:32:25	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	37647	No
29	GOM_NL__2PRFIN20090513_034549_000000352079_00018_37647_4602.N1	13-MAY-2009 03:45:49	Twilight	35.000	93	53Bet Peg	2.5200	3100.0	70	37647	No
30	GOM_NL__2PRFIN20090513_035020_000000372079_00018_37647_4603.N1	13-MAY-2009 03:50:20	Dark	36.500	90	54Alp Peg	2.4870	11000.	73	37647	No
31	GOM_NL__2PRFIN20090513_042510_000000222079_00019_37648_4607.N1	13-MAY-2009 04:25:10	Straylight	2.0000	38	20Eps Sgr	1.8360	11000.	4	37648	No
32	GOM_NL__2PRFIN20090513_042651_000000422079_00019_37648_4608.N1	13-MAY-2009 04:26:51	Straylight	41.500	25	35Lam Sco	1.6200	28000.	83	37648	No
33	GOM_NL__2PRFIN20090513_042921_000000322079_00019_37648_4609.N1	13-MAY-2009 04:29:21	Straylight	31.500	75	26Eps Sco	2.2910	4250.0	63	37648	No
34	GOM_NL__2PRFIN20090513_043232_000000332079_00019_37648_4610.N1	13-MAY-2009 04:32:32	Twilight	32.500	16	21Alp Sco	1.0200	3000.0	65	37648	No
35	GOM_NL__2PRFIN20090513_043421_000000302079_00019_37648_4611.N1	13-MAY-2009 04:34:21	Twilight	30.000	80	7Del Sco	2.3160	30000.	60	37648	No
36	GOM_NL__2PRFIN20090513_044121_000000372079_00019_37648_4612.N1	13-MAY-2009 04:41:21	Twilight	36.500	120	1Del Oph	2.7340	3200.0	73	37648	No
37	GOM_NL__2PRFIN20090513_044434_000000332079_00019_37648_4613.N1	13-MAY-2009 04:44:34	Bright	33.000	102	24Alp Ser	2.6000	4250.0	66	37648	No
38	GOM_NL__2PRFIN20090513_045106_000000332079_00019_37648_4614.N1	13-MAY-2009 04:51:06	Bright	33.000	67	5Alp CrB	2.2210	11000.	66	37648	No
39	GOM_NL__2PRFIN20090513_050206_000000302079_00019_37648_4615.N1	13-MAY-2009 05:02:06	Twilight	29.500	119	14Eta Dra	2.7270	4700.0	59	37648	No
40	GOM_NL__2PRFIN20090513_051300_000000282079_00019_37648_4616.N1	13-MAY-2009 05:13:00	Twilight	27.500	89	5Alp Cep	2.4510	8000.0	55	37648	No
41	GOM_NL__2PRFIN20090513_052625_000000262079_00019_37648_4617.N1	13-MAY-2009 05:26:25	Twilight	25.500	93	53Bet Peg	2.5200	3100.0	51	37648	No
42	GOM_NL__2PRFIN20090513_053057_000000272079_00019_37648_4618.N1	13-MAY-2009 05:30:57	Dark	27.000	90	54Alp Peg	2.4870	11000.	54	37648	No

161	GOM_NL__2PRFIN20090513_211525_000000552079_00029_37658_4787.N1	13-MAY-2009 21:15:25	Straylight	54.500	75	26Eps Sco	2.2910	4250.0	109	37658	No
162	GOM_NL__2PRFIN20090513_211835_000000582079_00029_37658_4788.N1	13-MAY-2009 21:18:35	Twilight_stray	58.000	16	21Alp Sco	1.0200	3000.0	116	37658	No
163	GOM_NL__2PRFIN20090513_212022_000000532079_00029_37658_4789.N1	13-MAY-2009 21:20:22	Bright	52.500	80	7Del Sco	2.3160	30000.	105	37658	No
164	GOM_NL__2PRFIN20090513_212718_000000522079_00029_37658_4790.N1	13-MAY-2009 21:27:18	Bright	51.500	120	1Del Oph	2.7340	3200.0	103	37658	No
165	GOM_NL__2PRFIN20090513_213030_000000452079_00029_37658_4791.N1	13-MAY-2009 21:30:30	Bright	44.500	102	24Alp Ser	2.6000	4250.0	89	37658	No
166	GOM_NL__2PRFIN20090513_213700_000000452079_00029_37658_4792.N1	13-MAY-2009 21:37:00	Bright	45.000	67	5Alp CrB	2.2210	11000.	90	37658	No
167	GOM_NL__2PRFIN20090513_214800_000000432079_00029_37658_4793.N1	13-MAY-2009 21:48:00	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	37658	No
168	GOM_NL__2PRFIN20090513_215855_000000442079_00029_37658_4794.N1	13-MAY-2009 21:58:55	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	37658	No
169	GOM_NL__2PRFIN20090513_221227_000000652079_00029_37658_4795.N1	13-MAY-2009 22:12:27	Twilight_stray	64.500	93	53Bet Peg	2.5200	3100.0	129	37658	No
170	GOM_NL__2PRFIN20090513_221701_000000532079_00029_37658_4796.N1	13-MAY-2009 22:17:01	Dark	53.000	90	54Alp Peg	2.4870	11000.	106	37658	No
171	GOM_NL__2PRFIN20090513_223533_000000462079_00029_37658_4797.N1	13-MAY-2009 22:35:33	Dark	45.500	172	Gam Gru	3.0030	13100.	91	37658	No
172	GOM_NL__2PRFIN20090513_225157_000000452079_00030_37659_4799.N1	13-MAY-2009 22:51:57	Straylight	45.000	38	20Eps Sgr	1.8360	11000.	90	37659	No
173	GOM_NL__2PRFIN20090513_225335_000000552079_00030_37659_4800.N1	13-MAY-2009 22:53:35	Straylight	54.500	25	35Lam Sco	1.6200	28000.	109	37659	No
174	GOM_NL__2PRFIN20090513_225601_000000522079_00030_37659_4801.N1	13-MAY-2009 22:56:01	Straylight	52.000	75	26Eps Sco	2.2910	4250.0	104	37659	No
175	GOM_NL__2PRFIN20090513_225911_000000572079_00030_37659_4802.N1	13-MAY-2009 22:59:11	Twilight_stray	56.500	16	21Alp Sco	1.0200	3000.0	113	37659	No
176	GOM_NL__2PRFIN20090513_230058_000000502079_00030_37659_4803.N1	13-MAY-2009 23:00:58	Bright	49.500	80	7Del Sco	2.3160	30000.	99	37659	No
177	GOM_NL__2PRFIN20090513_230753_000000512079_00030_37659_4804.N1	13-MAY-2009 23:07:53	Bright	51.000	120	1Del Oph	2.7340	3200.0	102	37659	No
178	GOM_NL__2PRFIN20090513_231106_000000452079_00030_37659_4805.N1	13-MAY-2009 23:11:06	Bright	45.000	102	24Alp Ser	2.6000	4250.0	90	37659	No
179	GOM_NL__2PRFIN20090513_231736_000000492079_00030_37659_4806.N1	13-MAY-2009 23:17:36	Bright	49.000	67	5Alp CrB	2.2210	11000.	98	37659	No
180	GOM_NL__2PRFIN20090513_232836_000000432079_00030_37659_4807.N1	13-MAY-2009 23:28:36	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	37659	No
181	GOM_NL__2PRFIN20090513_233931_000000432079_00030_37659_4808.N1	13-MAY-2009 23:39:31	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	37659	No
182	GOM_NL__2PRFIN20090513_235303_000000582079_00030_37659_4809.N1	13-MAY-2009 23:53:03	Twilight_stray	58.000	93	53Bet Peg	2.5200	3100.0	116	37659	No
183	GOM_NL__2PRFIN20090513_235737_000000542079_00030_37659_4810.N1	13-MAY-2009 23:57:37	Dark	53.500	90	54Alp Peg	2.4870	11000.	107	37659	No

3. Quality information per product

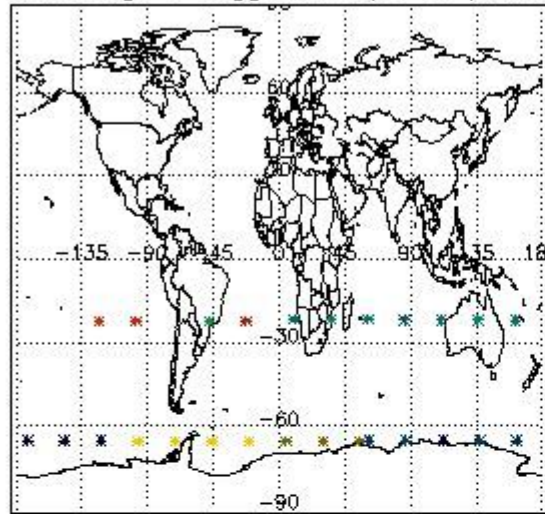
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

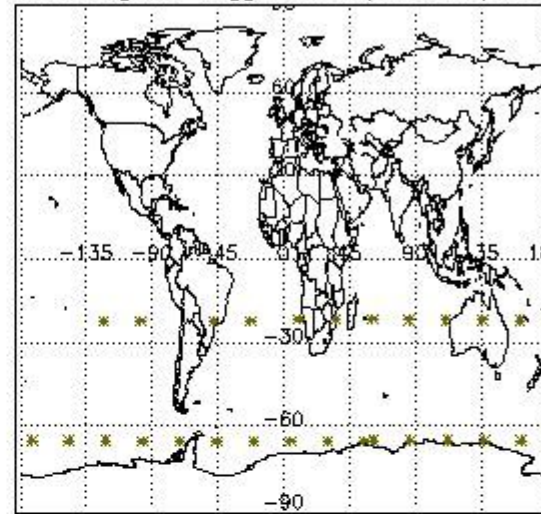


3.2 Plot quality information per product (world map)

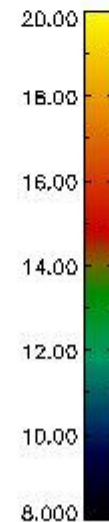
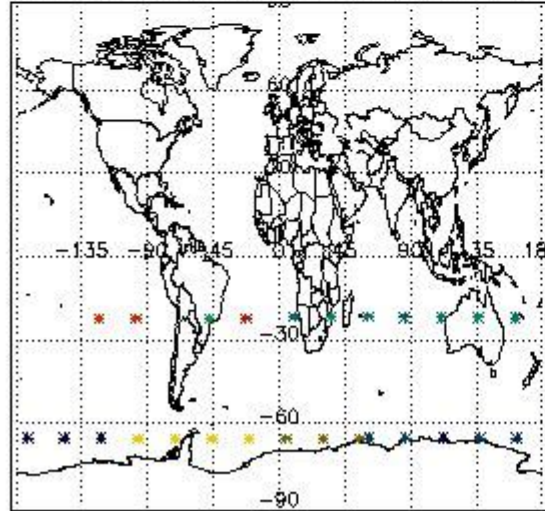
Percentage of flagged data per O3 profile



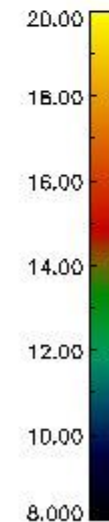
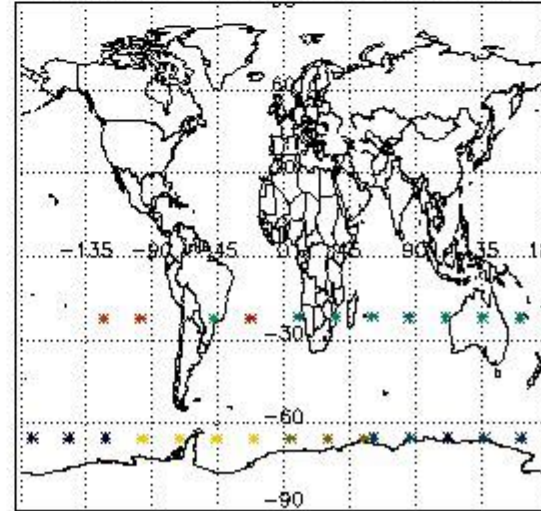
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

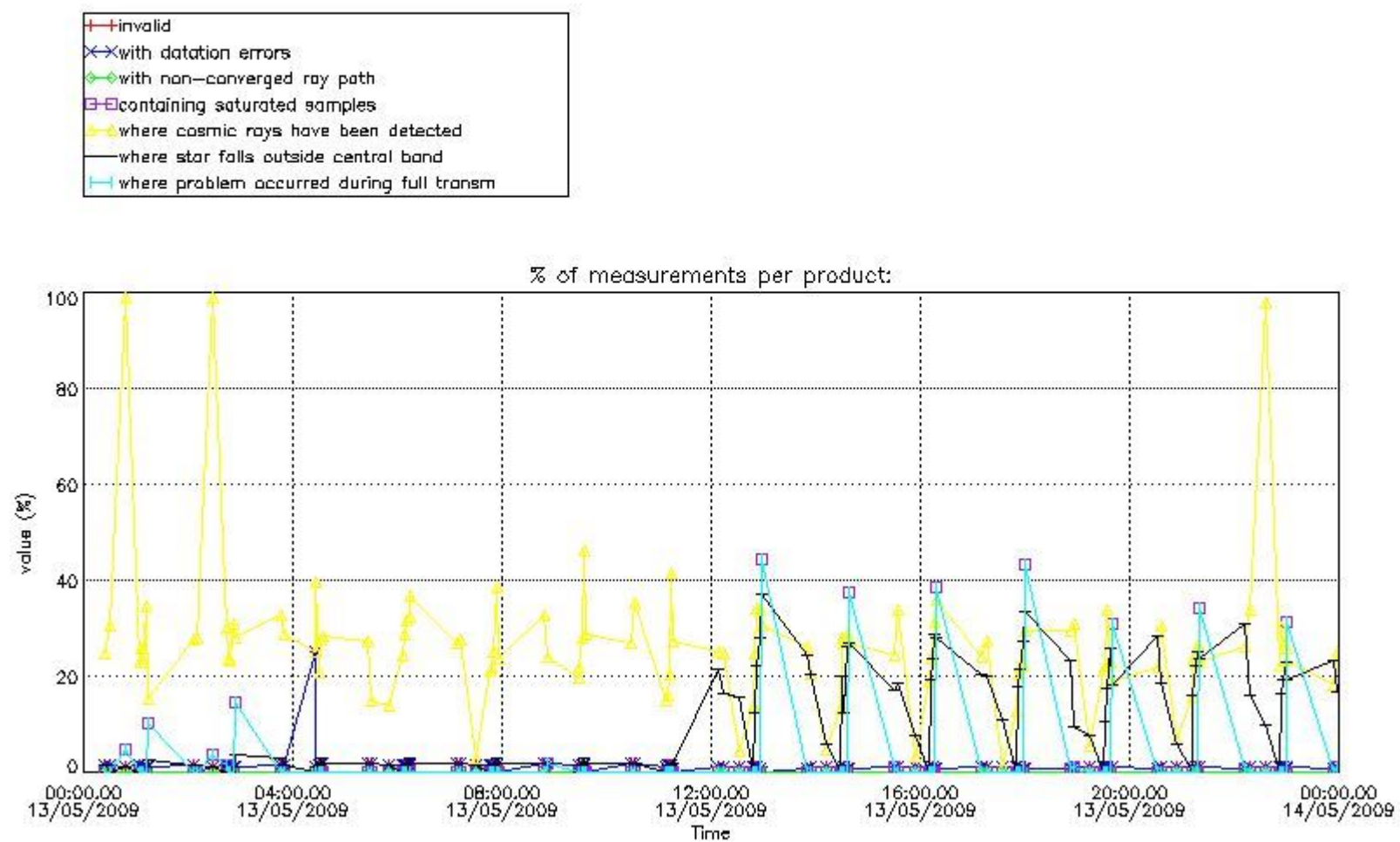


4. Level 1 quality information per product

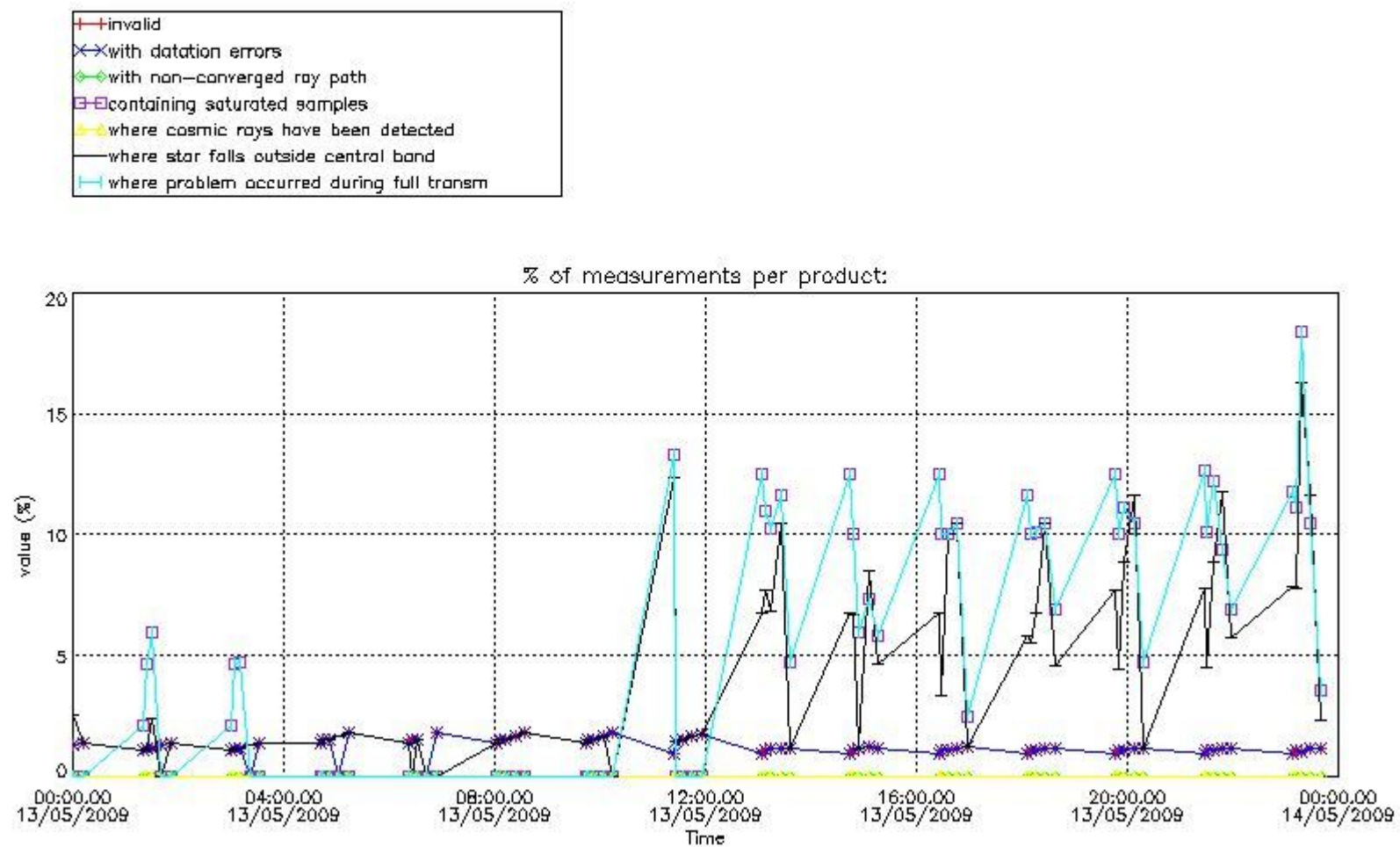
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

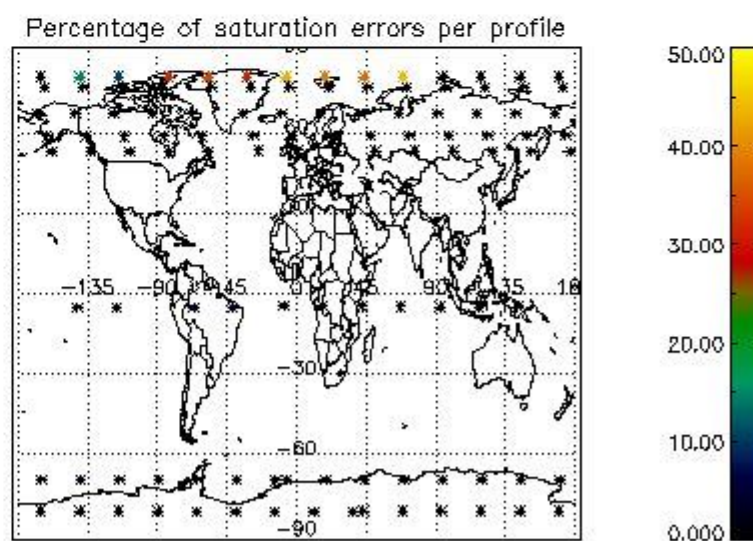
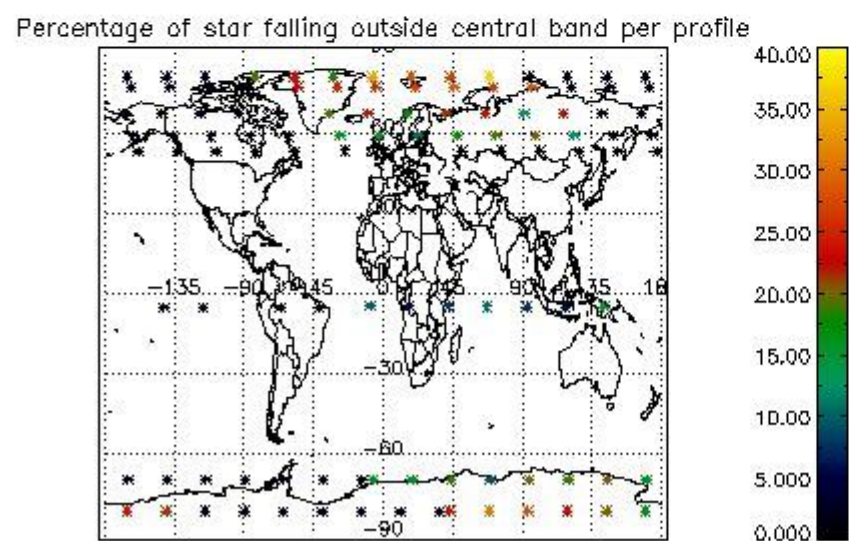
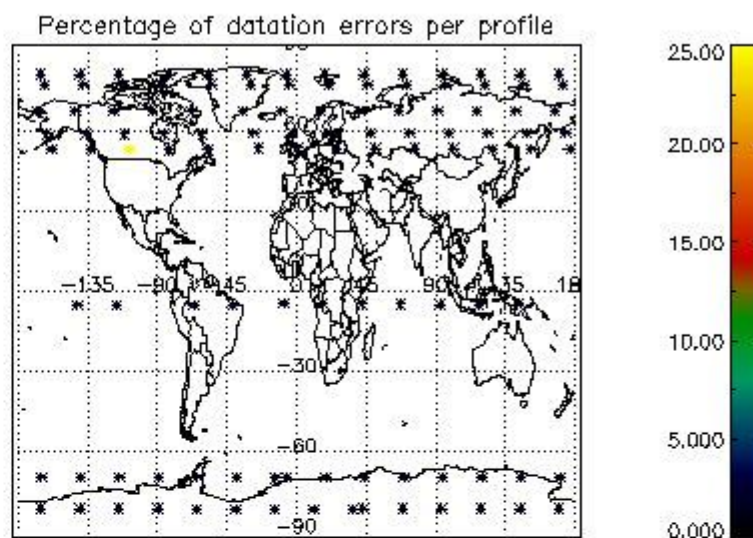
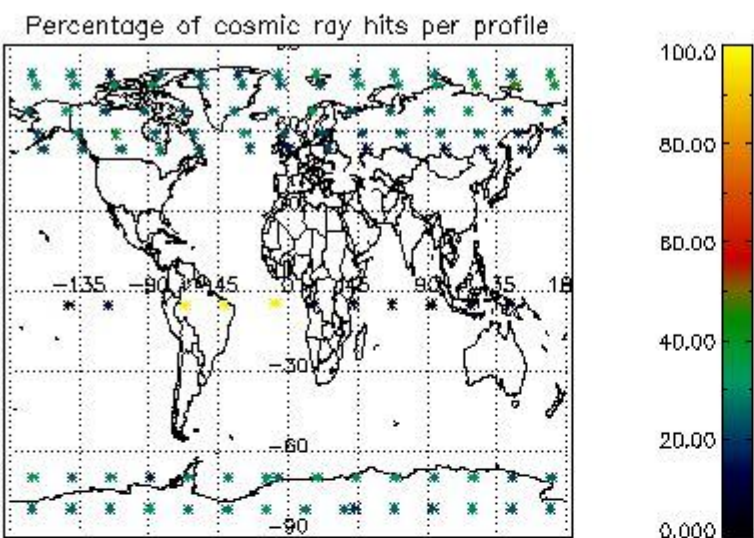


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

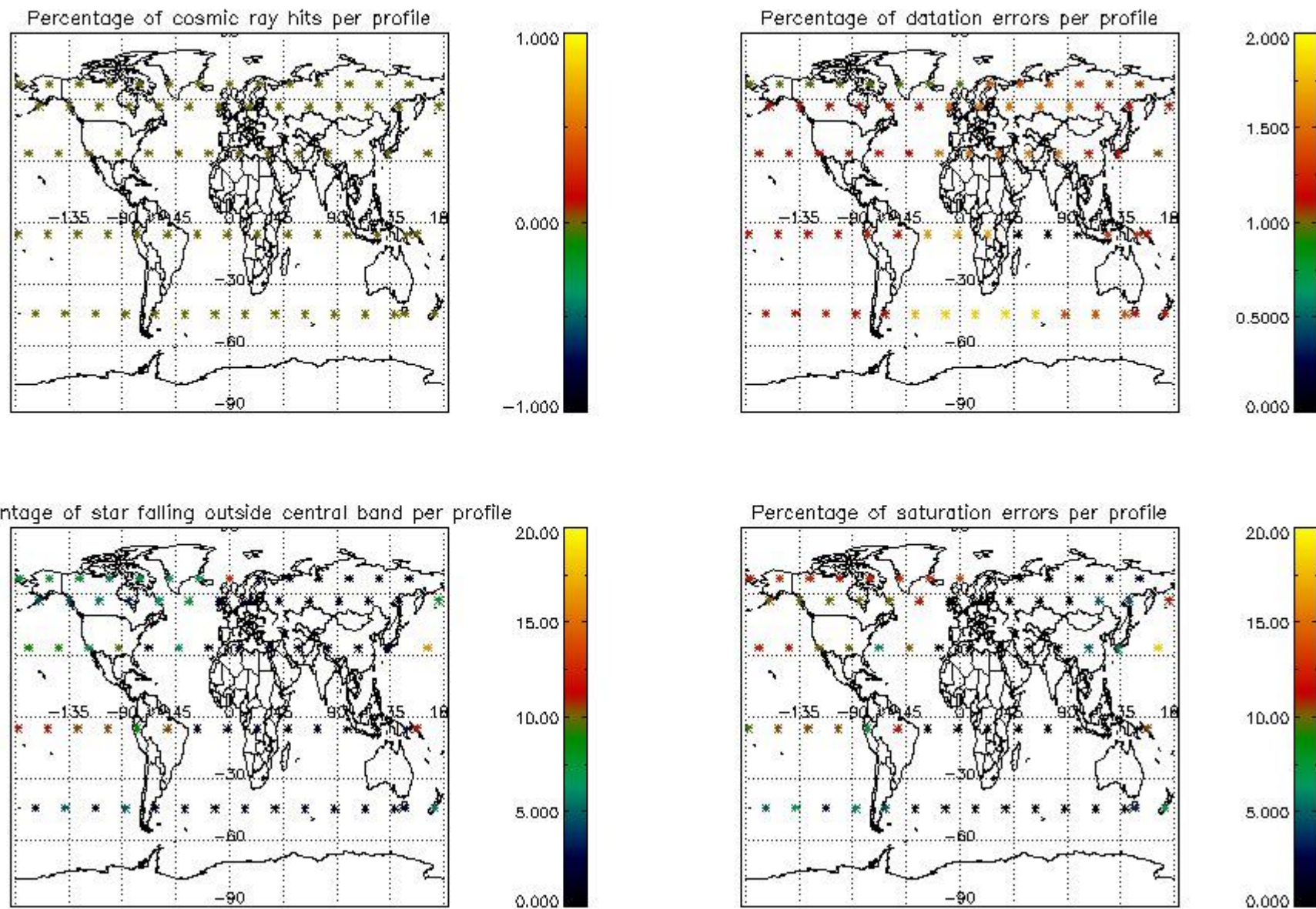


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

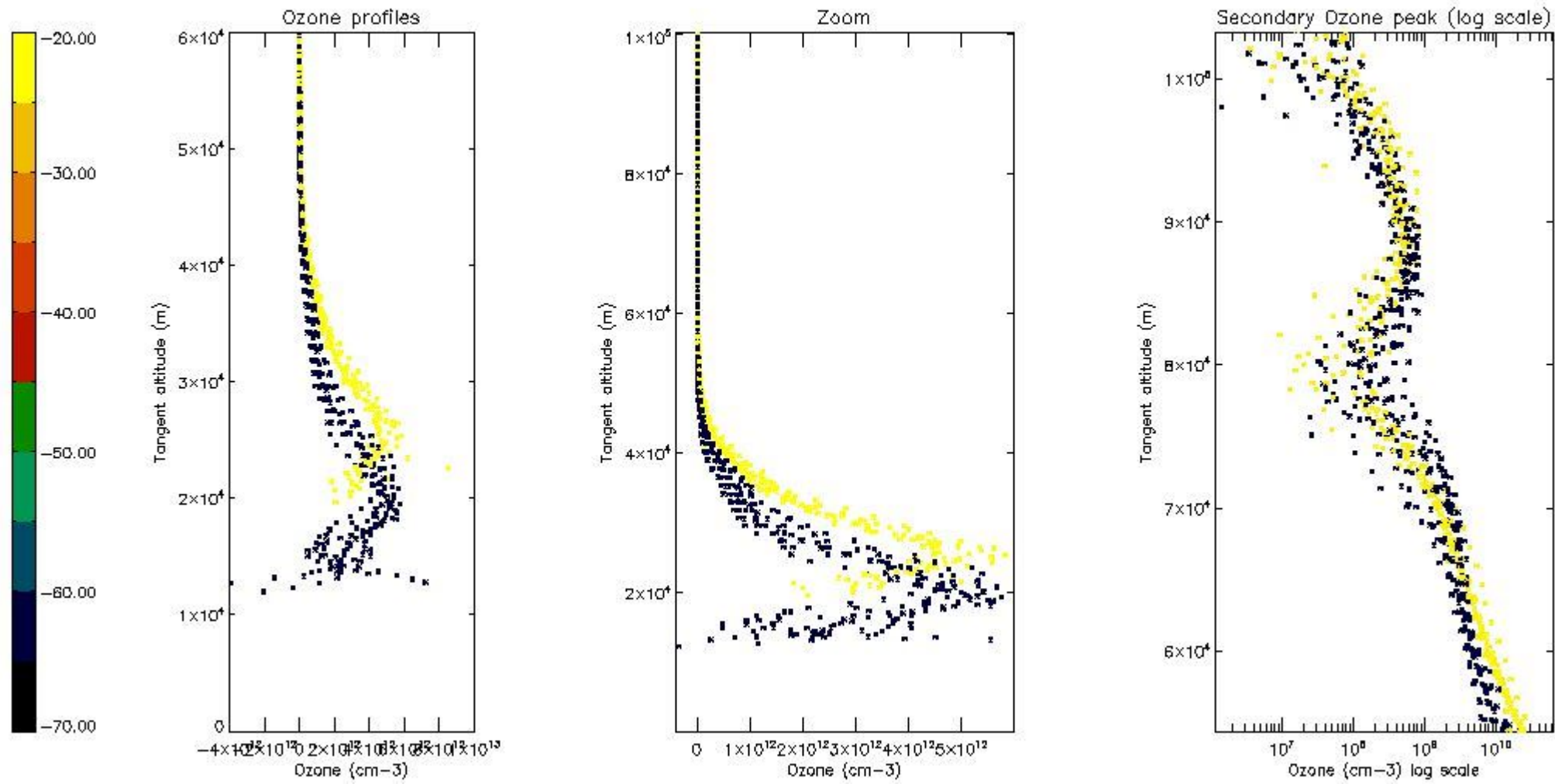
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	15
STD < 20	7

STD < 10	6
STD < 5	1

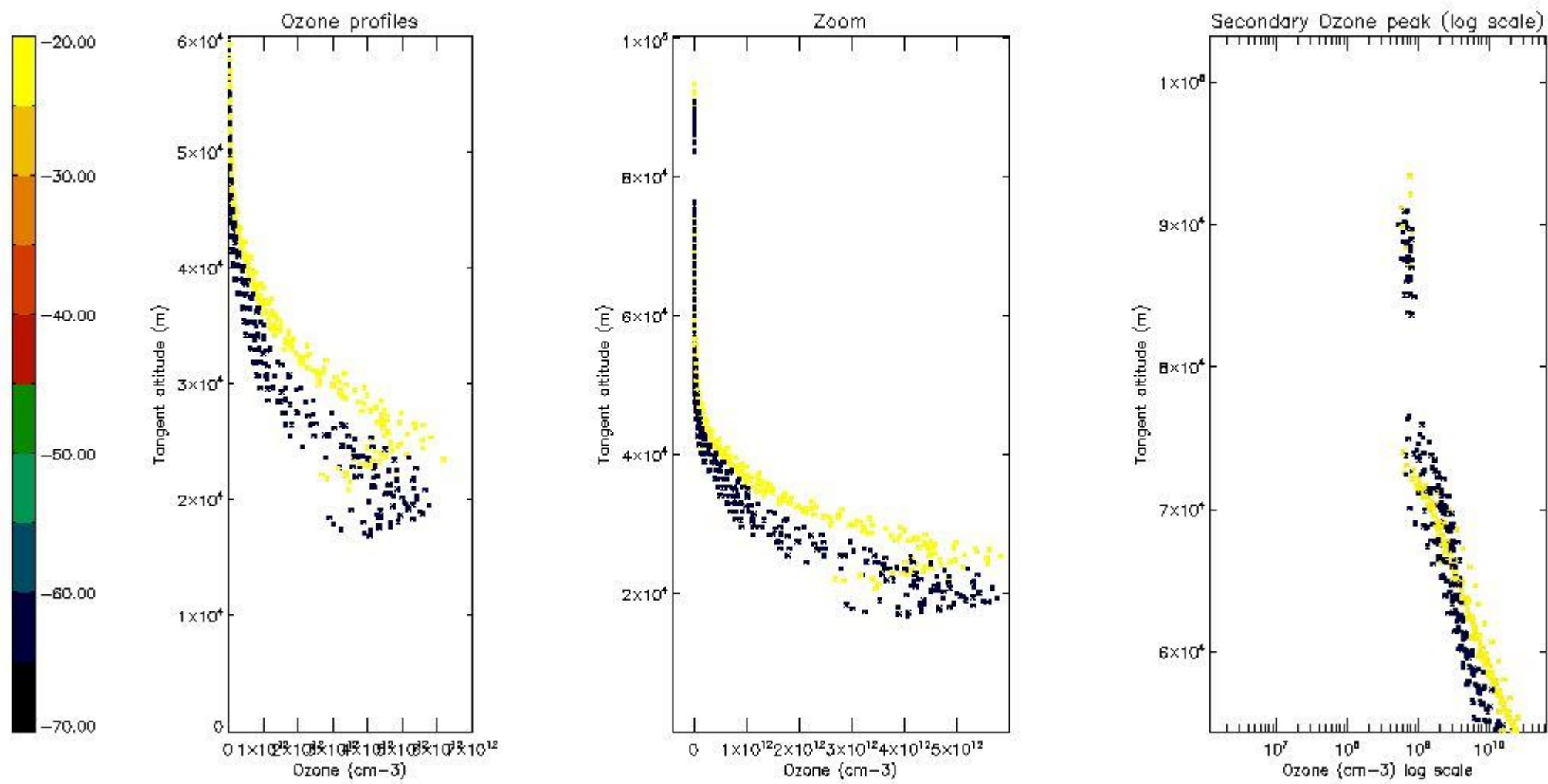
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



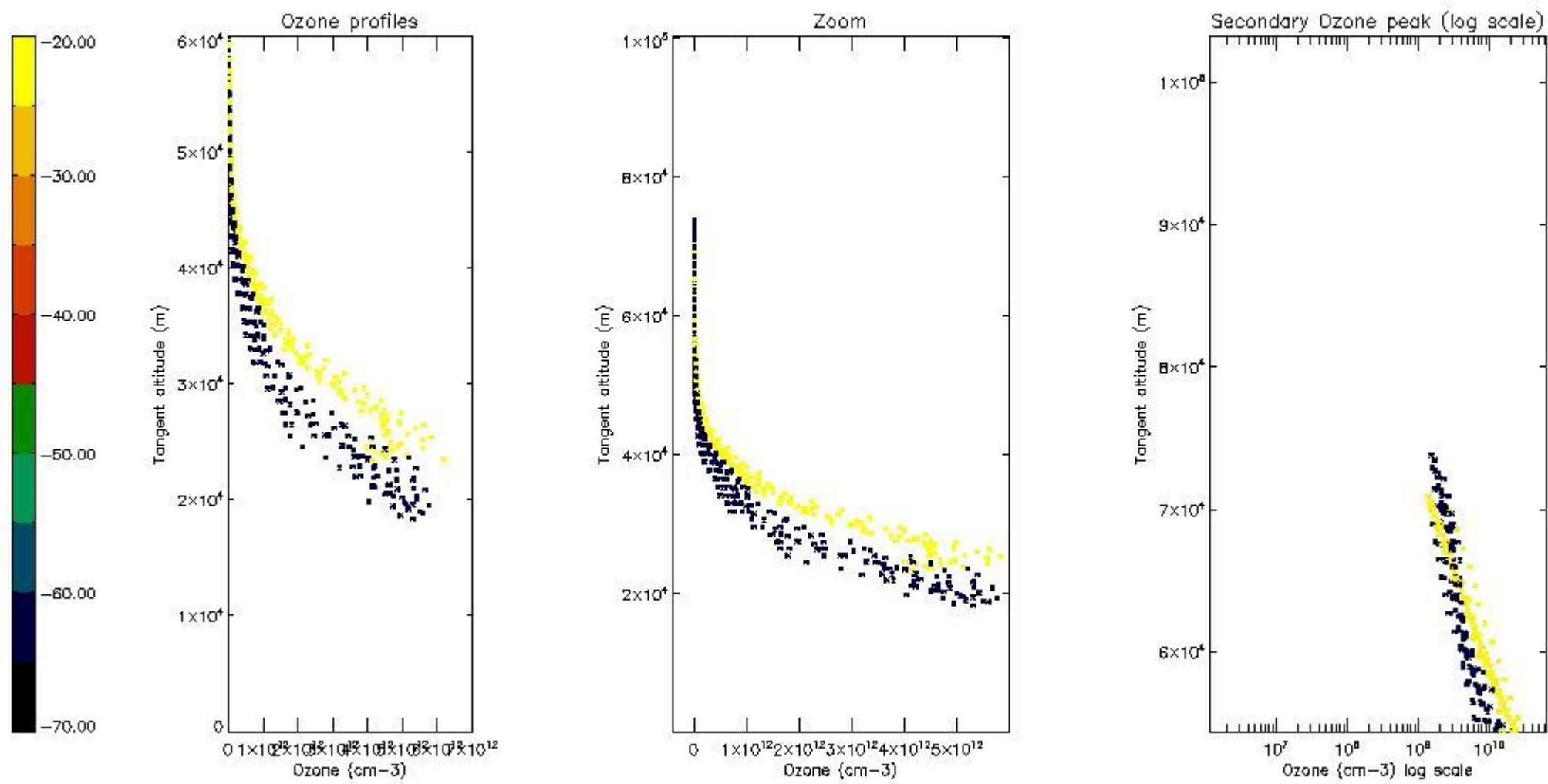
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



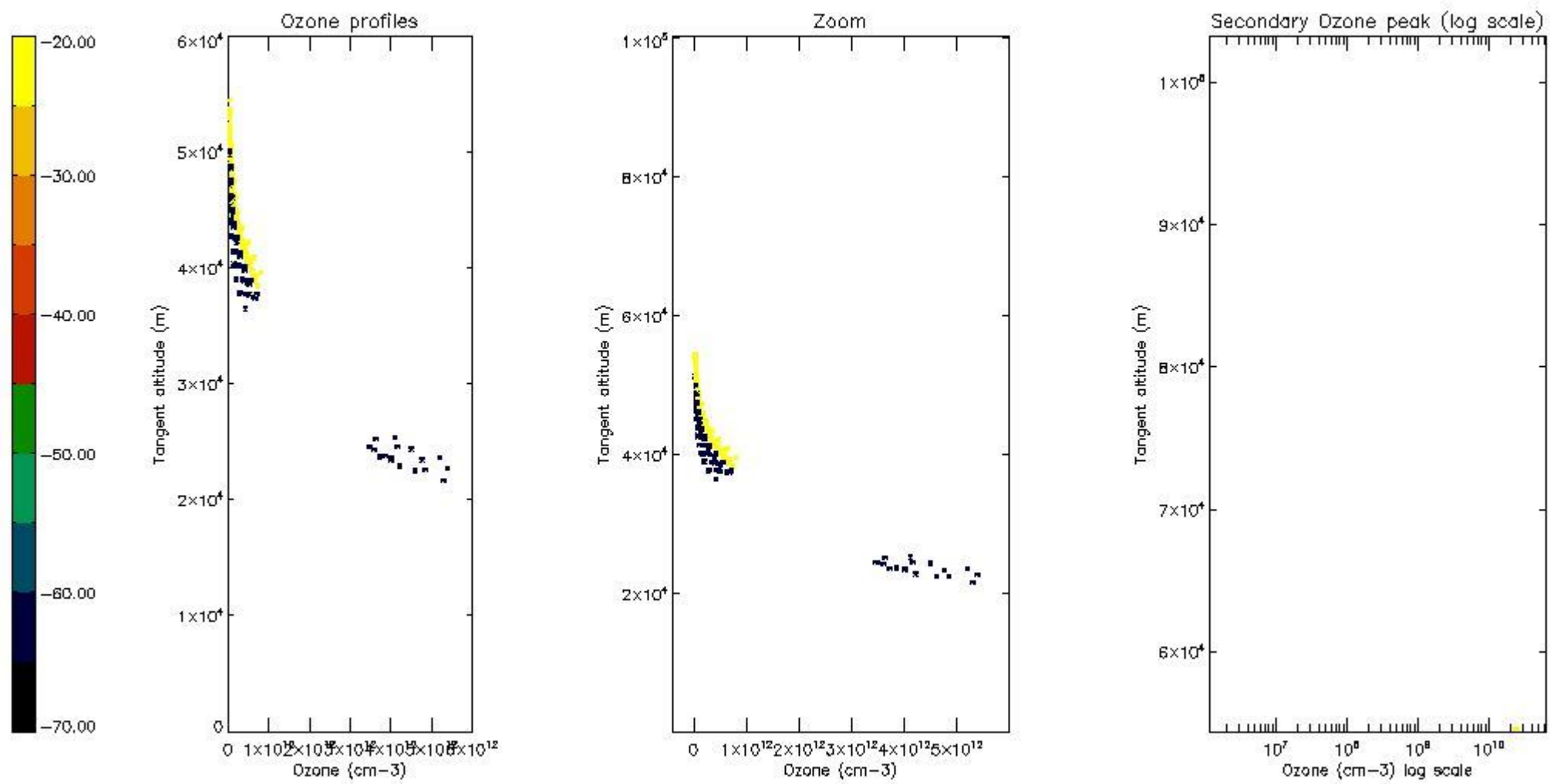
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



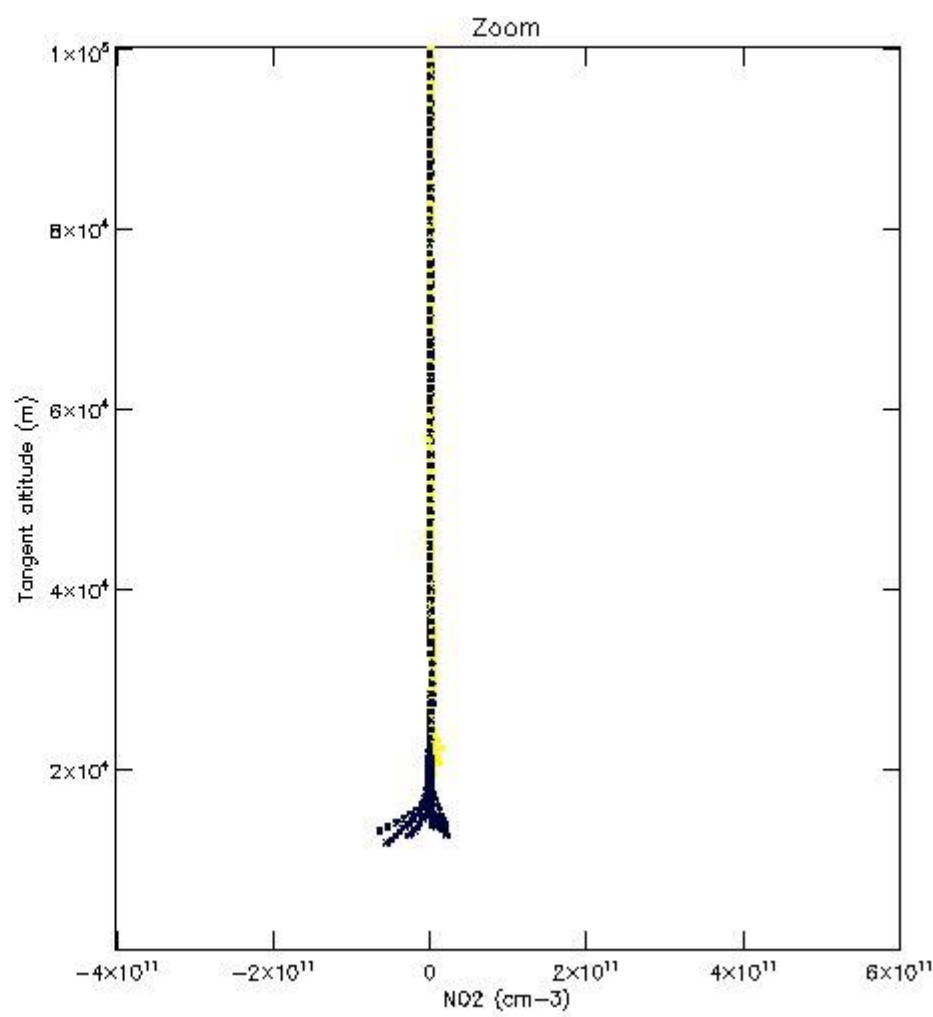
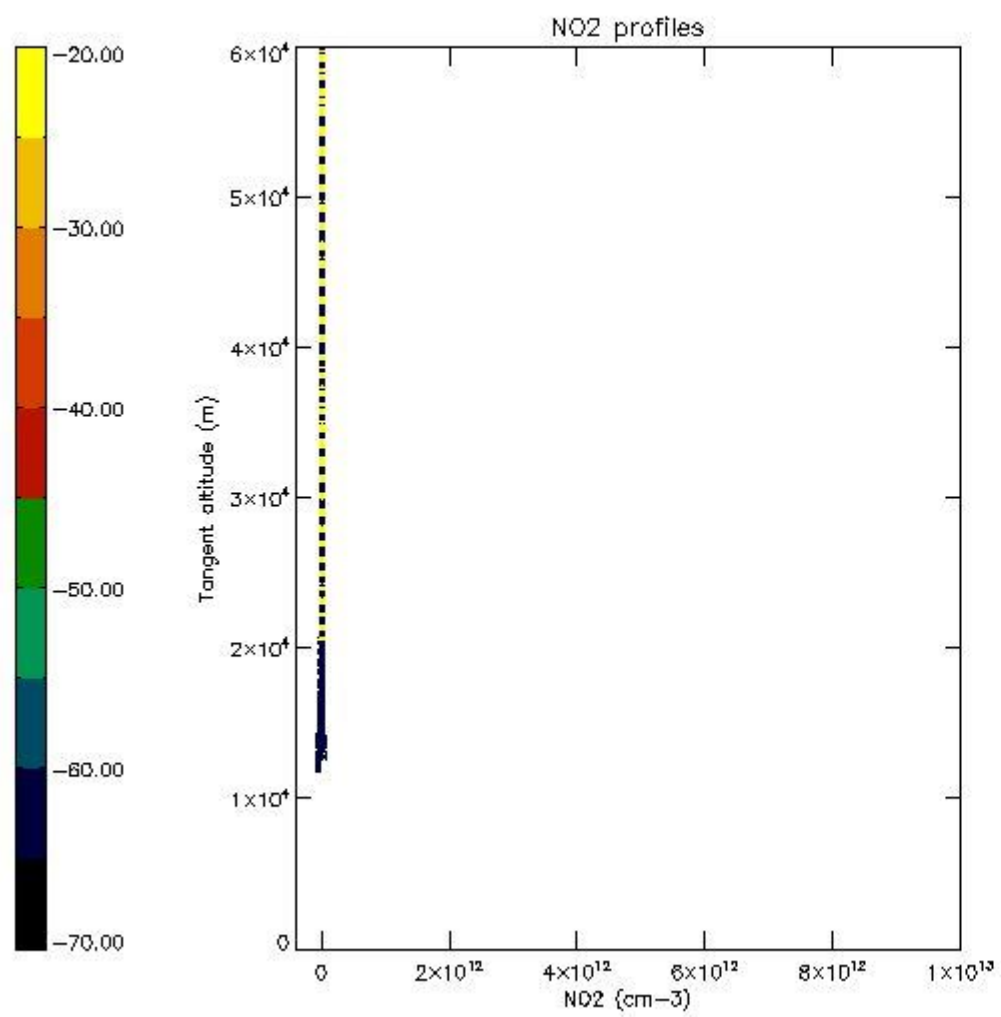
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



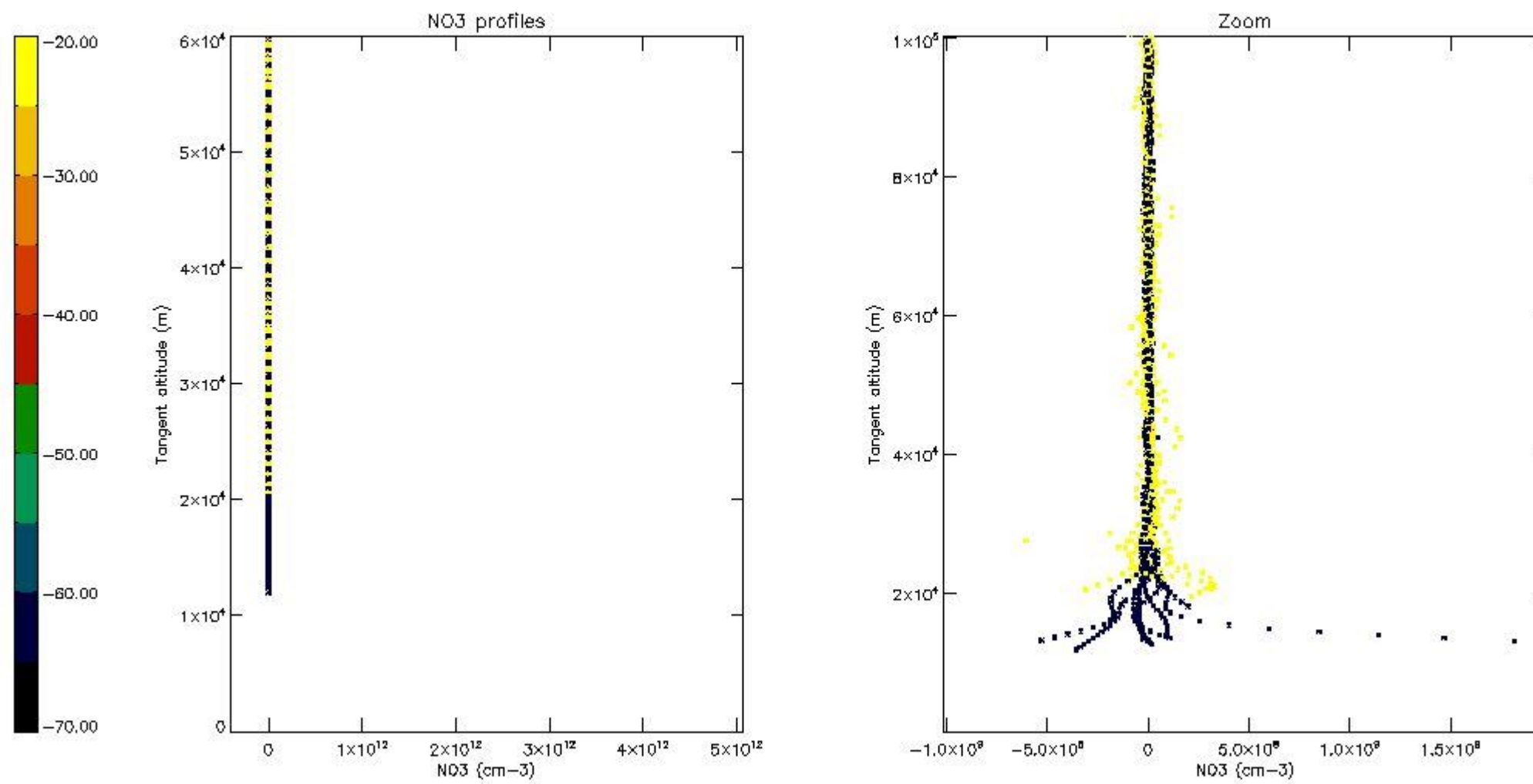
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

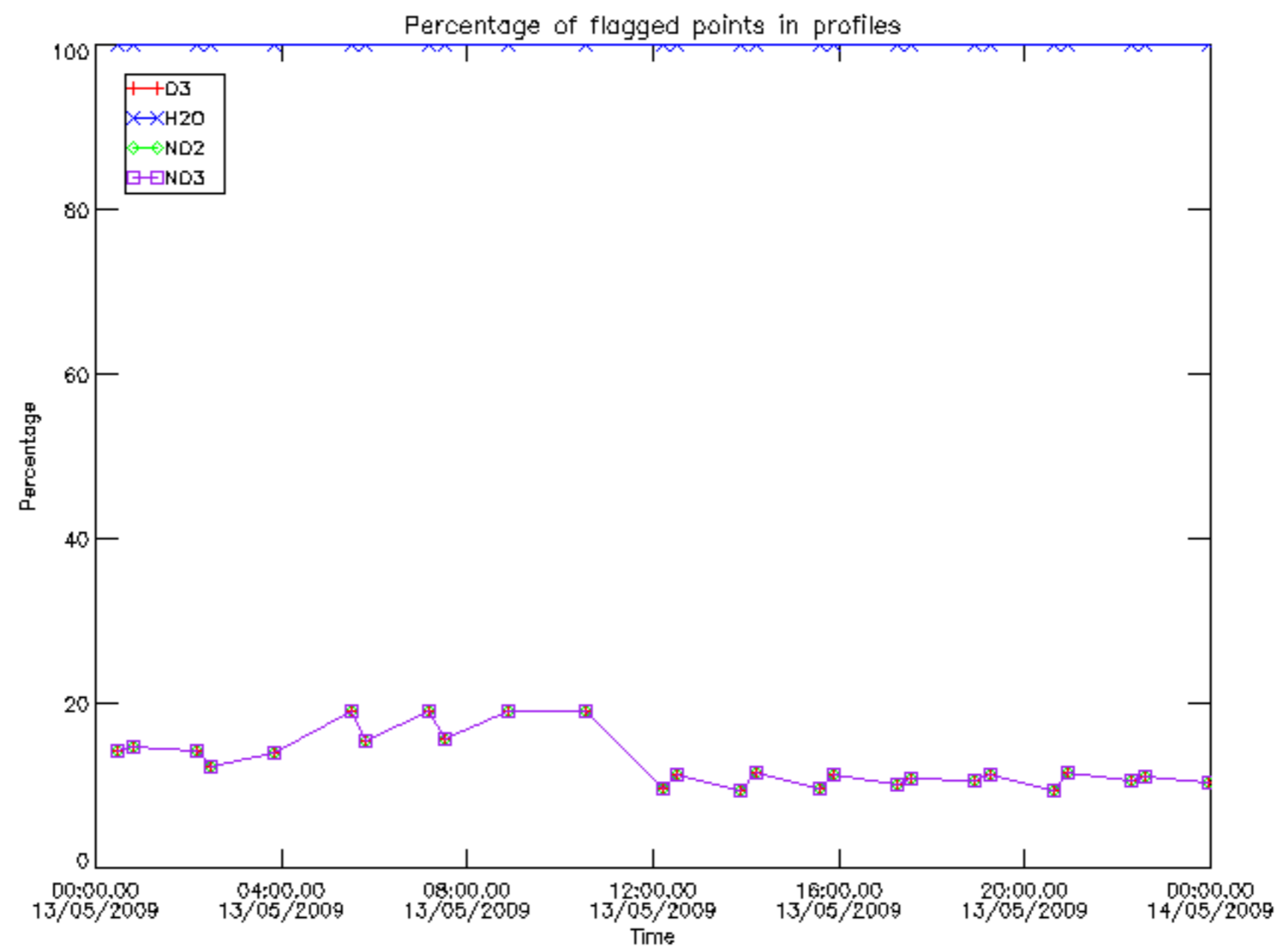
The colorbar represents the latitude.



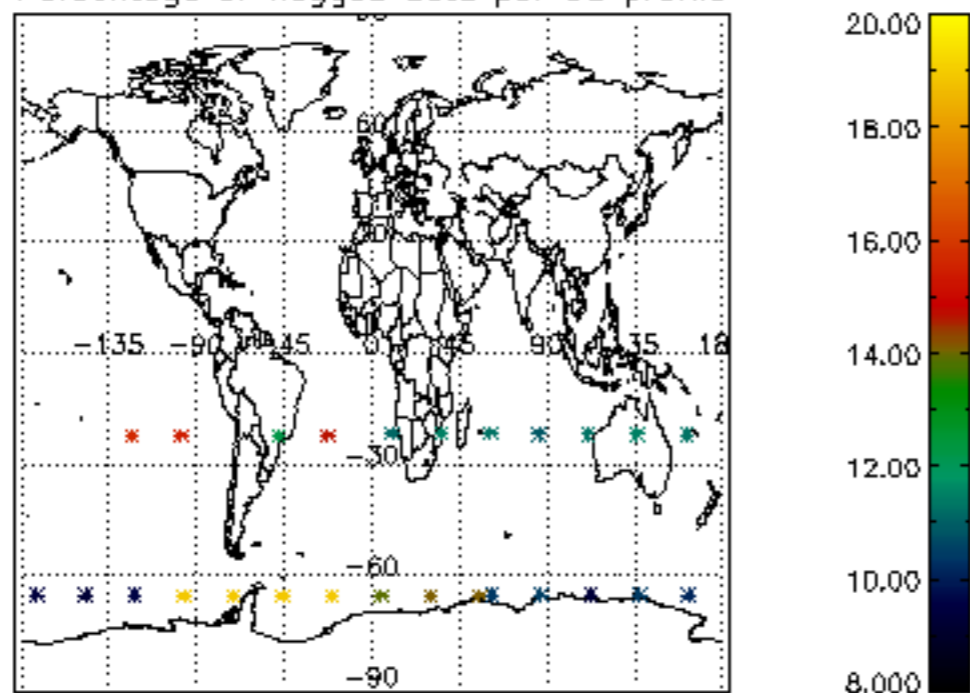
6. Auxiliary Data Files used for the production reported in section 2

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.

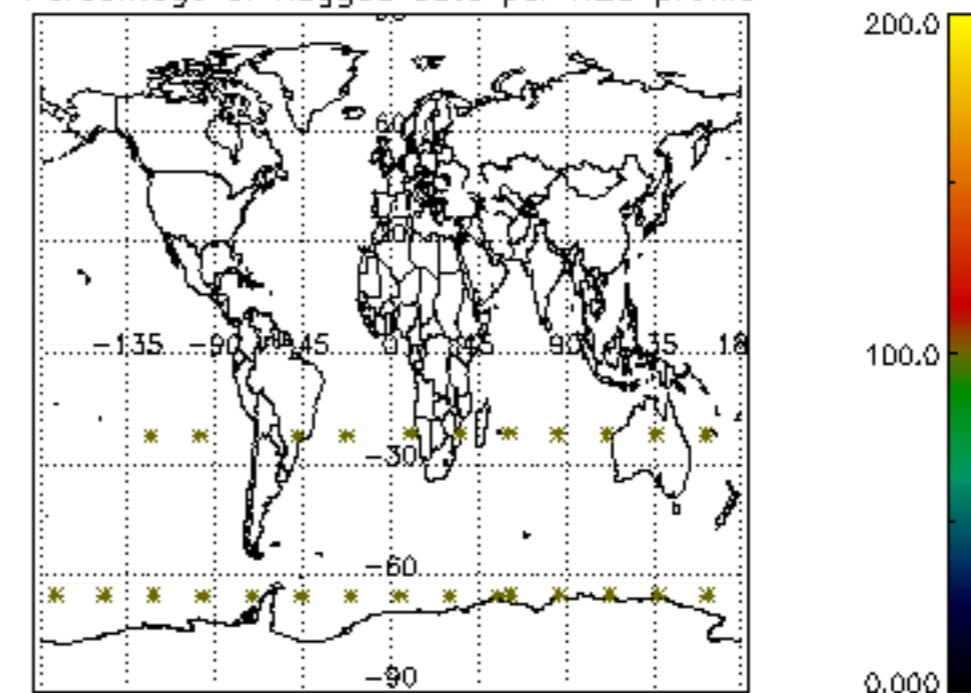
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	13-MAY-2009 00:00:20
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-MAY-2009 00:00:20
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-MAY-2009 00:00:20



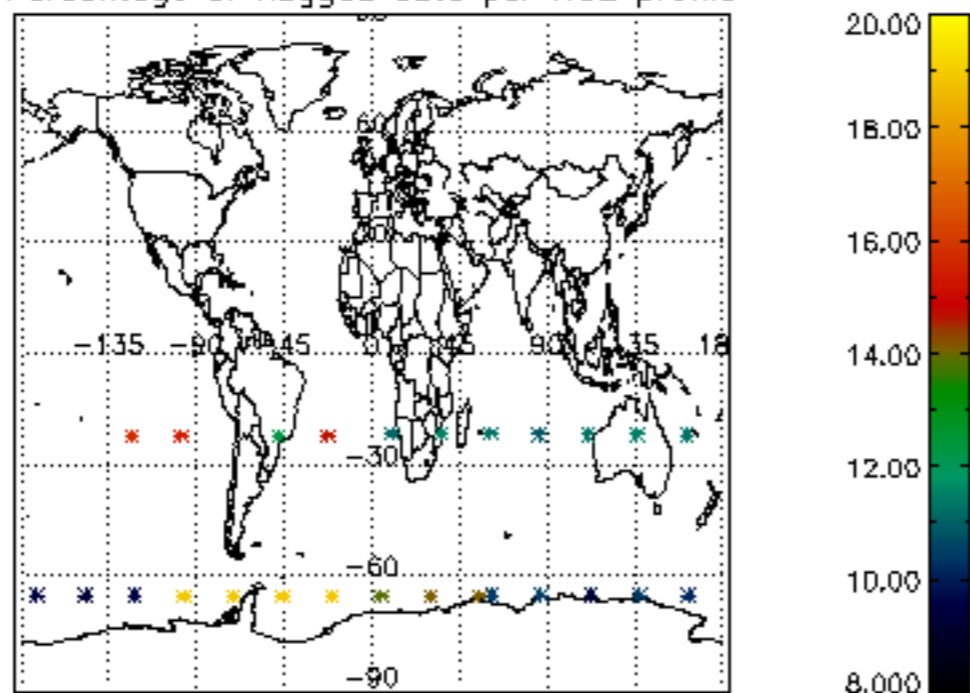
Percentage of flagged data per D3 profile



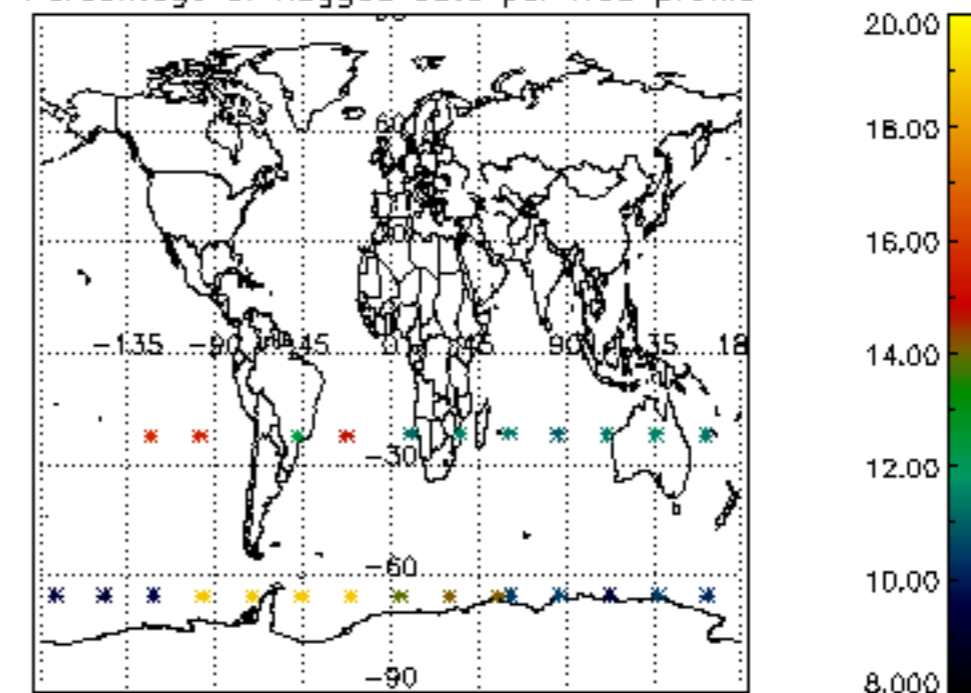
Percentage of flagged data per H2O profile

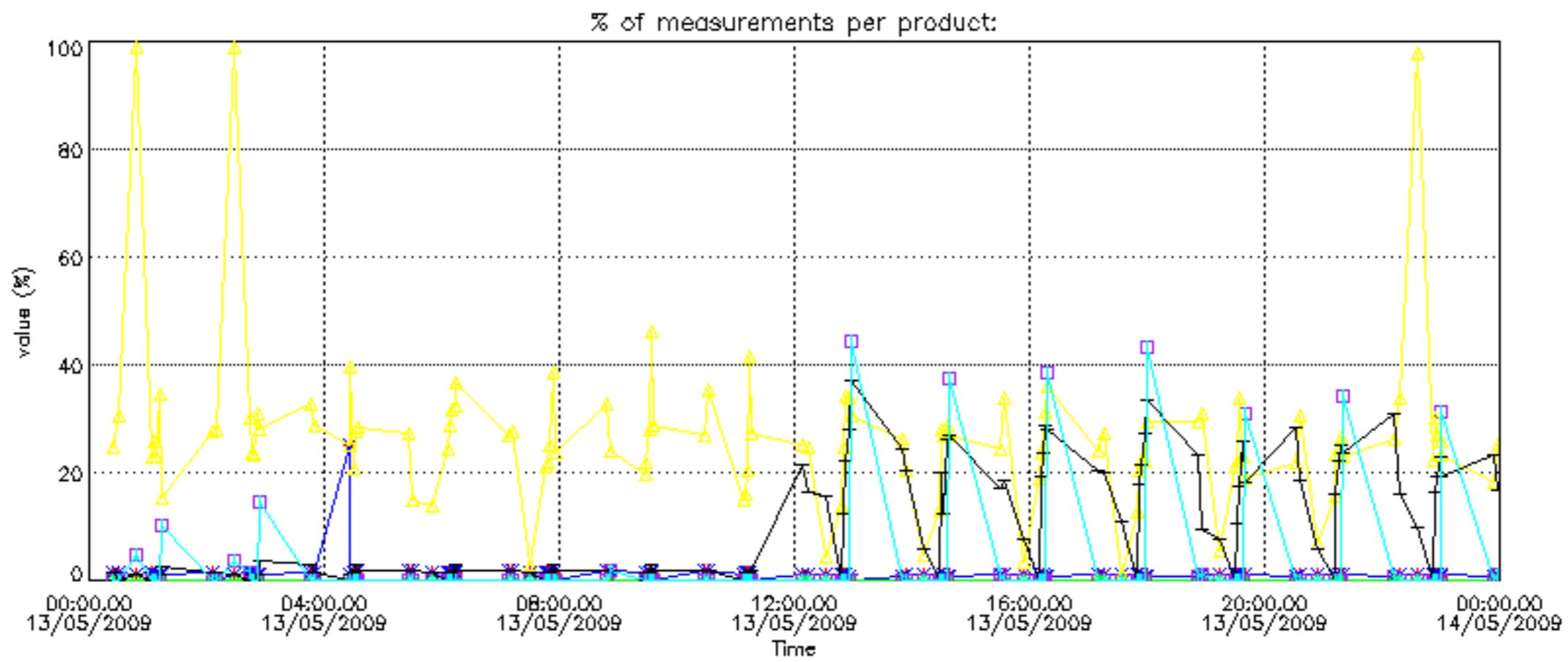


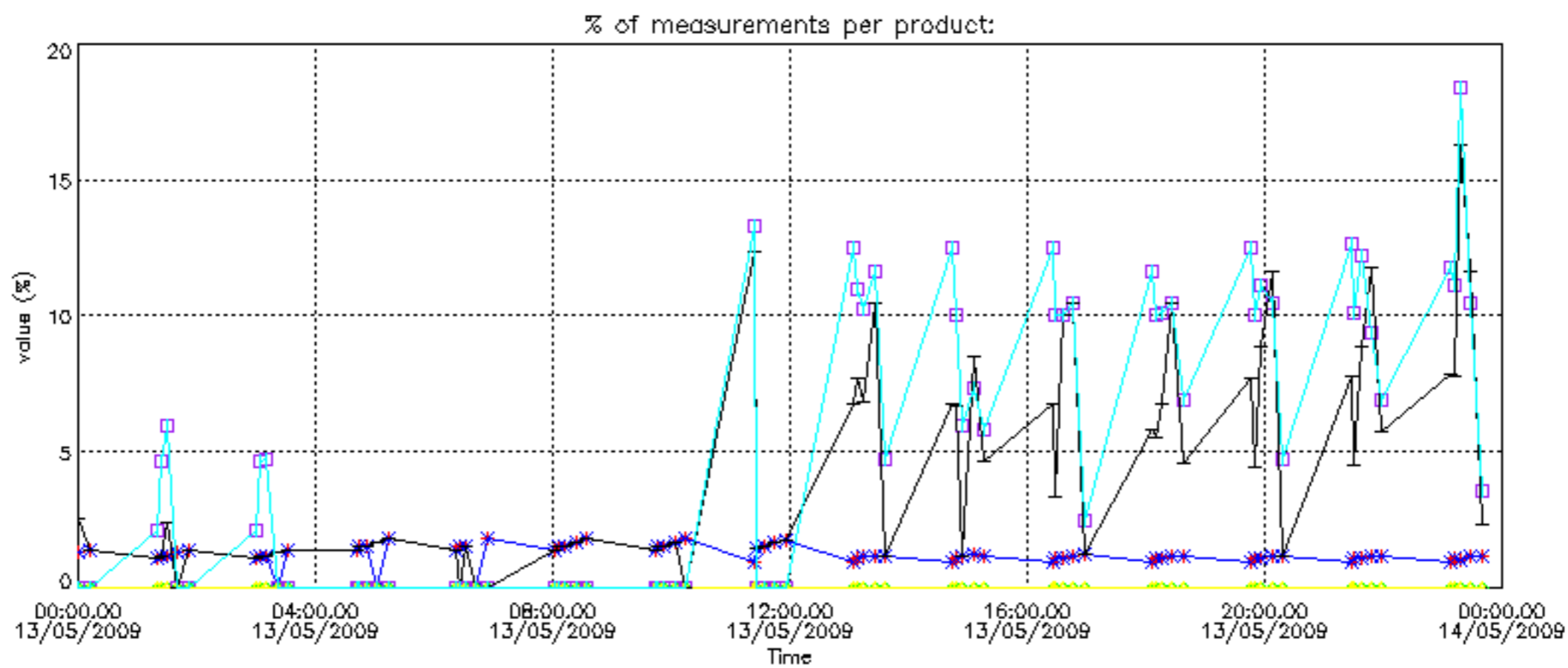
Percentage of flagged data per NO2 profile



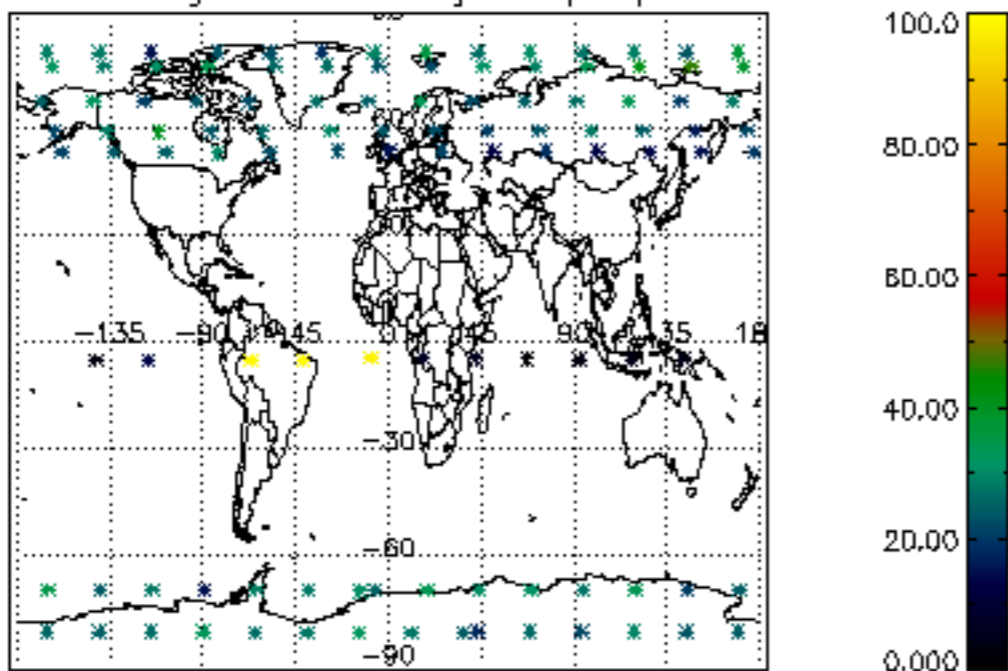
Percentage of flagged data per NO3 profile



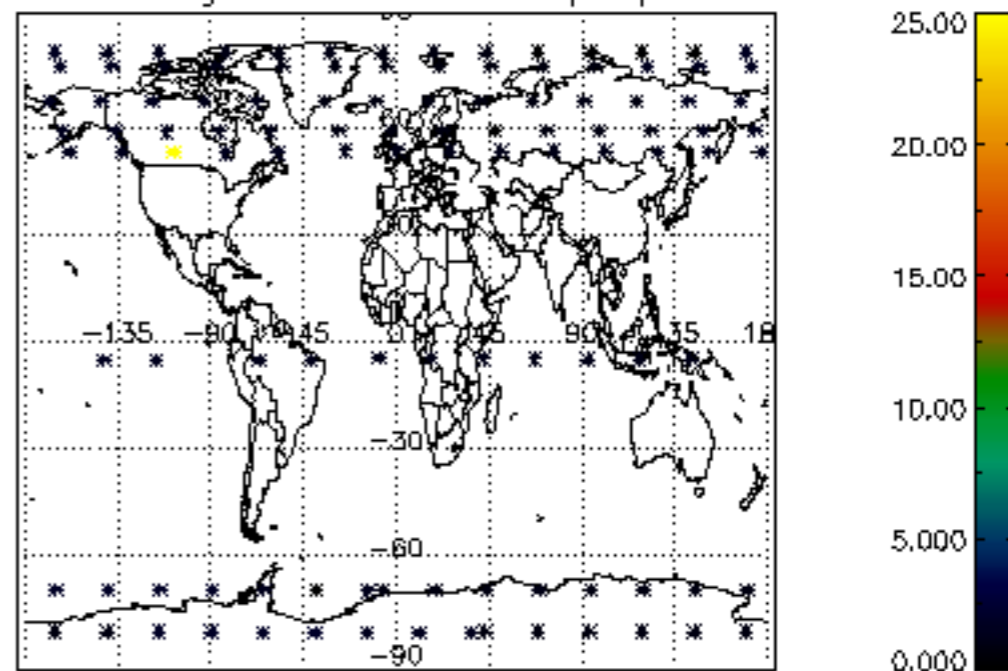




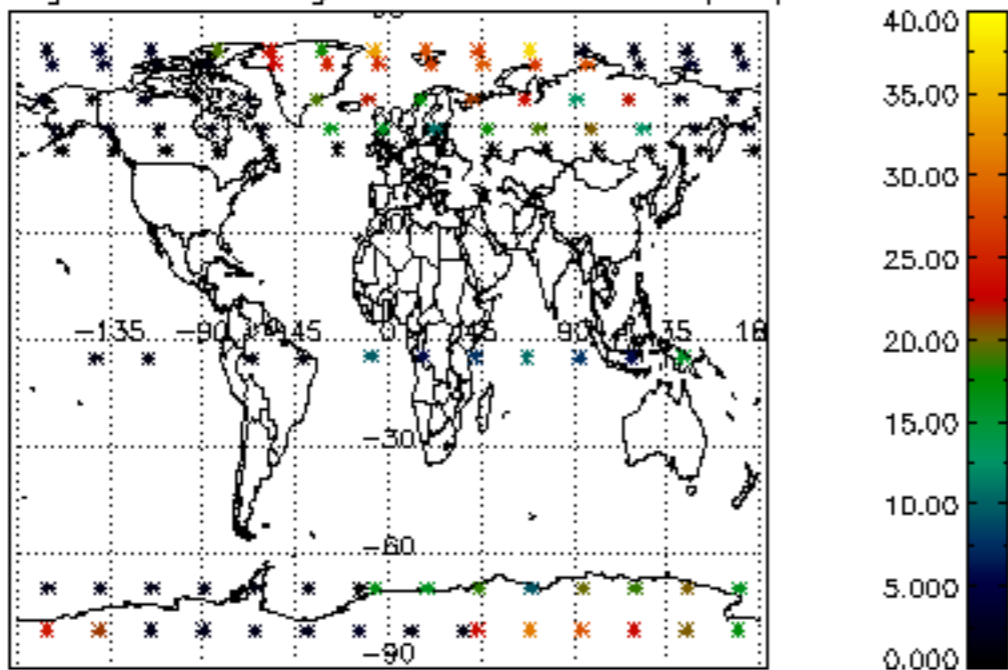
Percentage of cosmic ray hits per profile



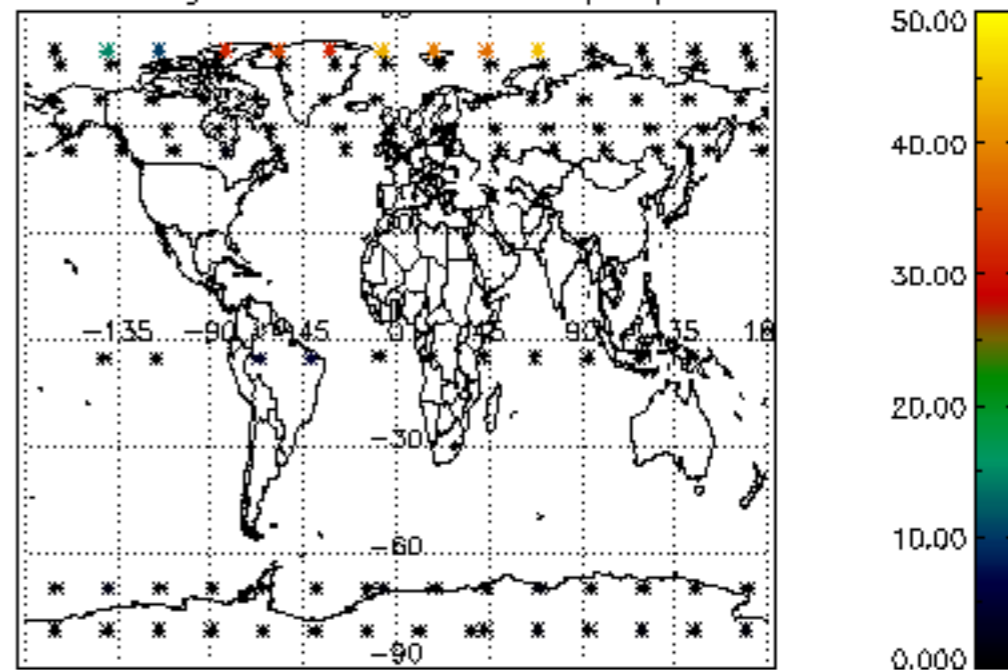
Percentage of datation errors per profile



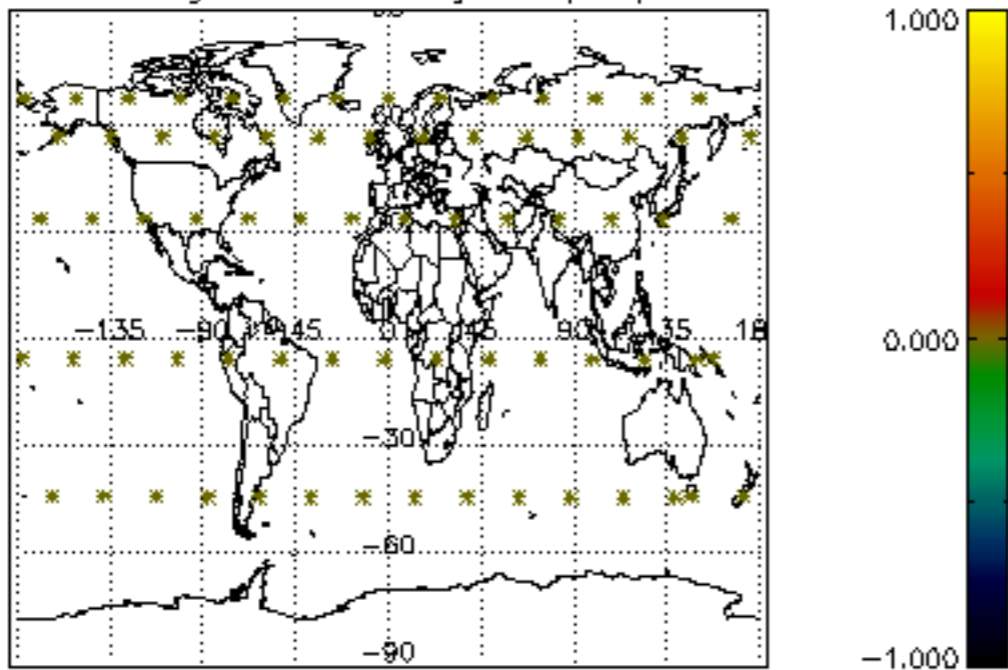
Percentage of star falling outside central band per profile



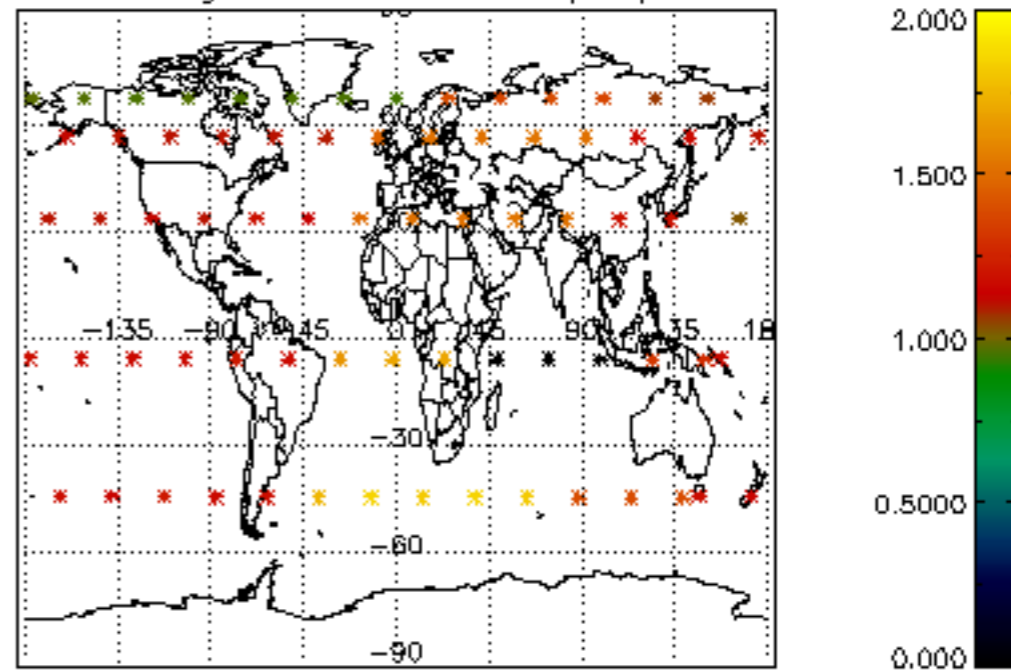
Percentage of saturation errors per profile



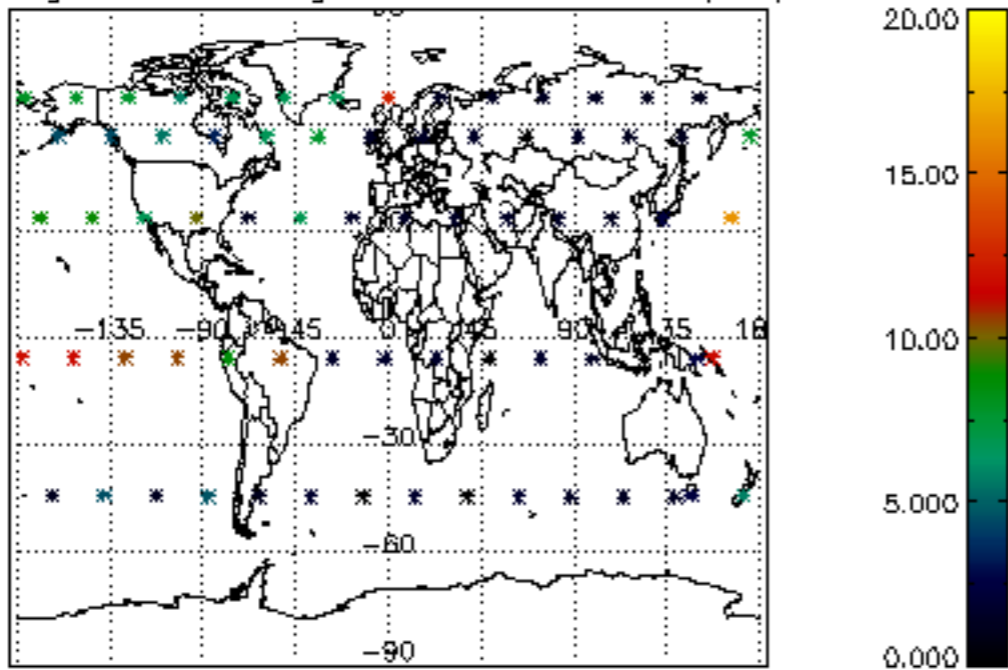
Percentage of cosmic ray hits per profile



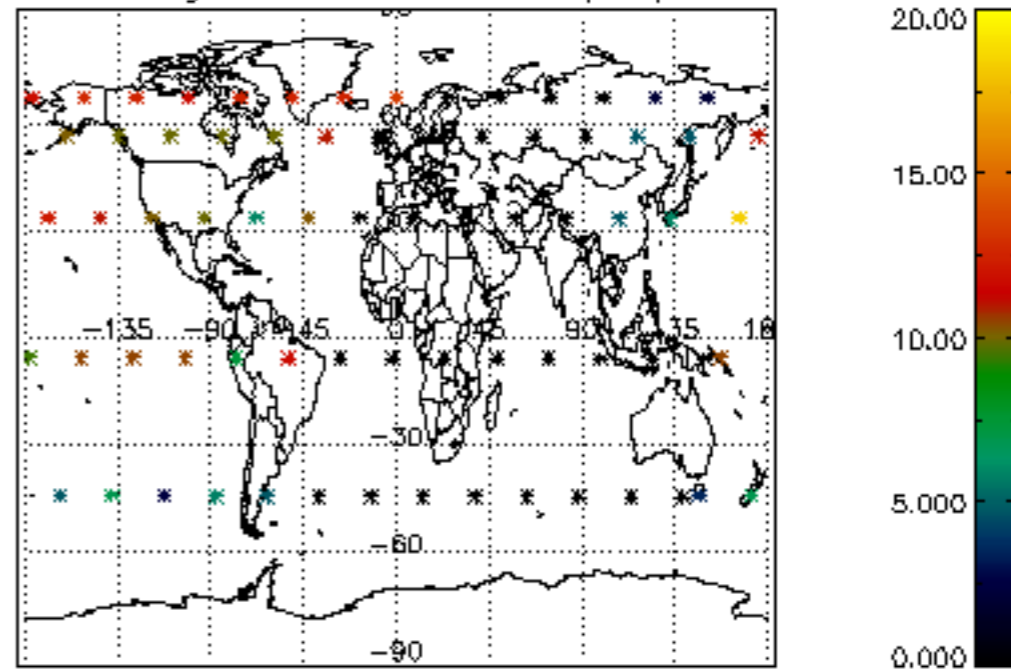
Percentage of datation errors per profile

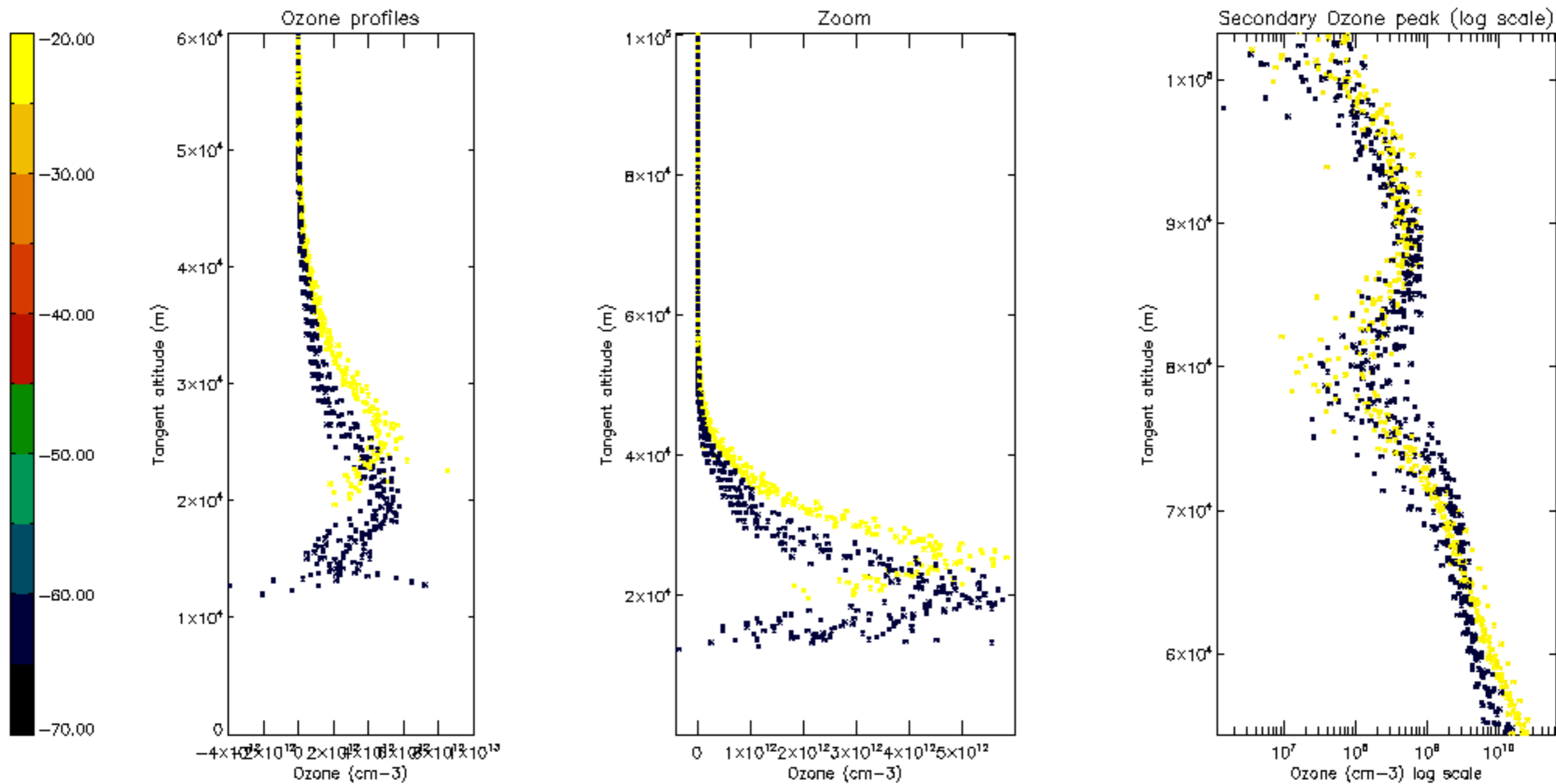


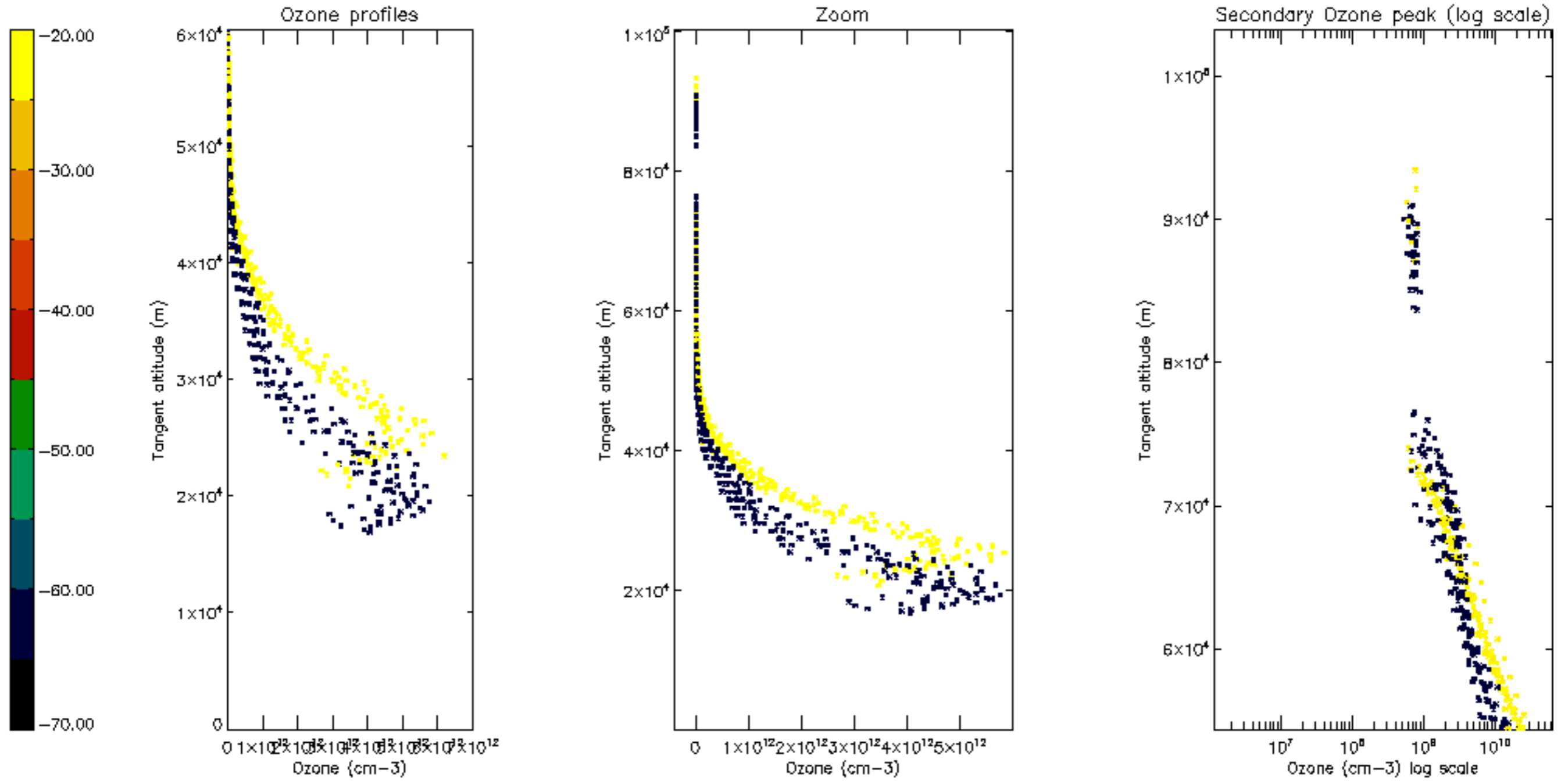
Percentage of star falling outside central band per profile

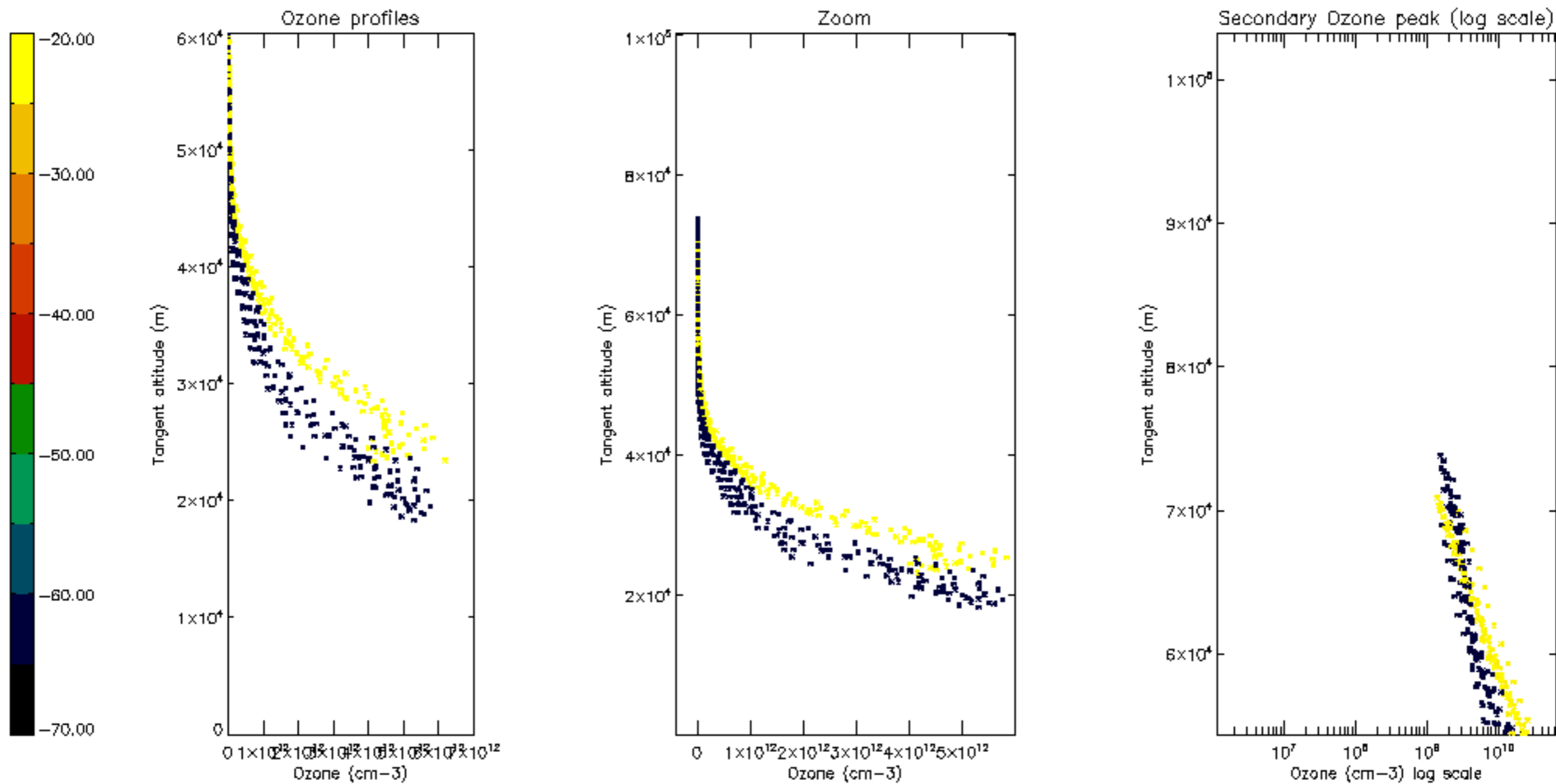


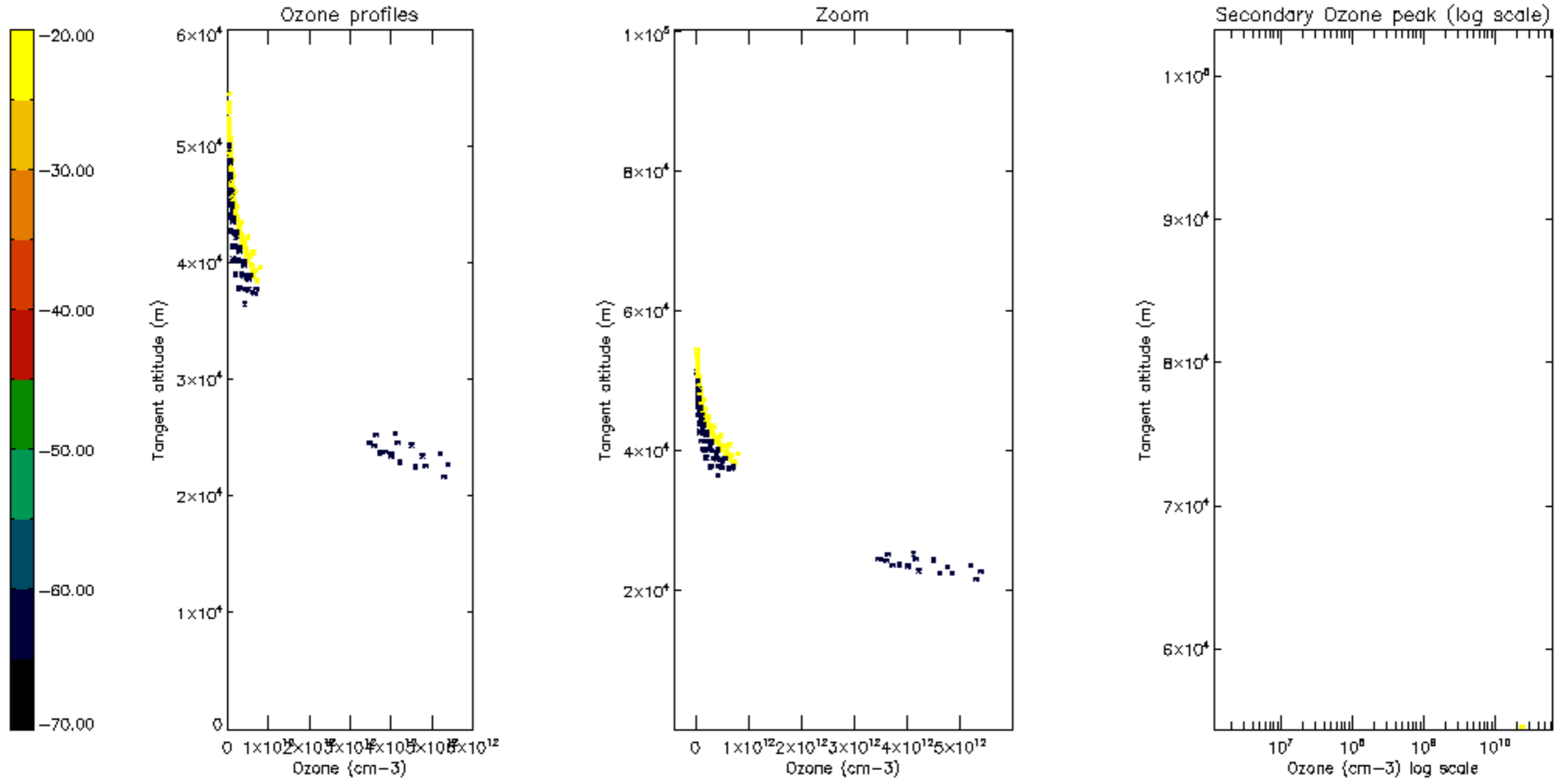
Percentage of saturation errors per profile

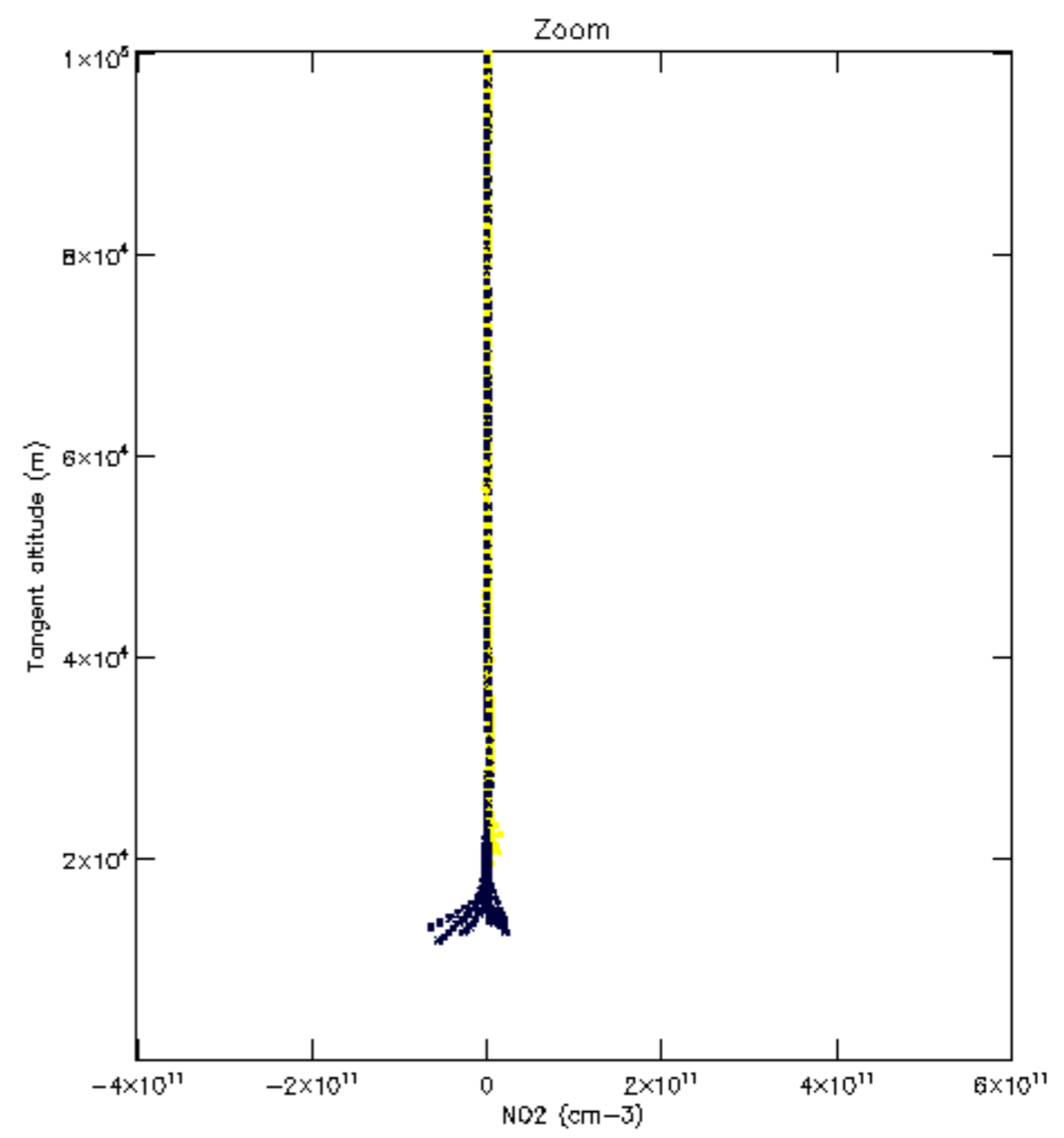
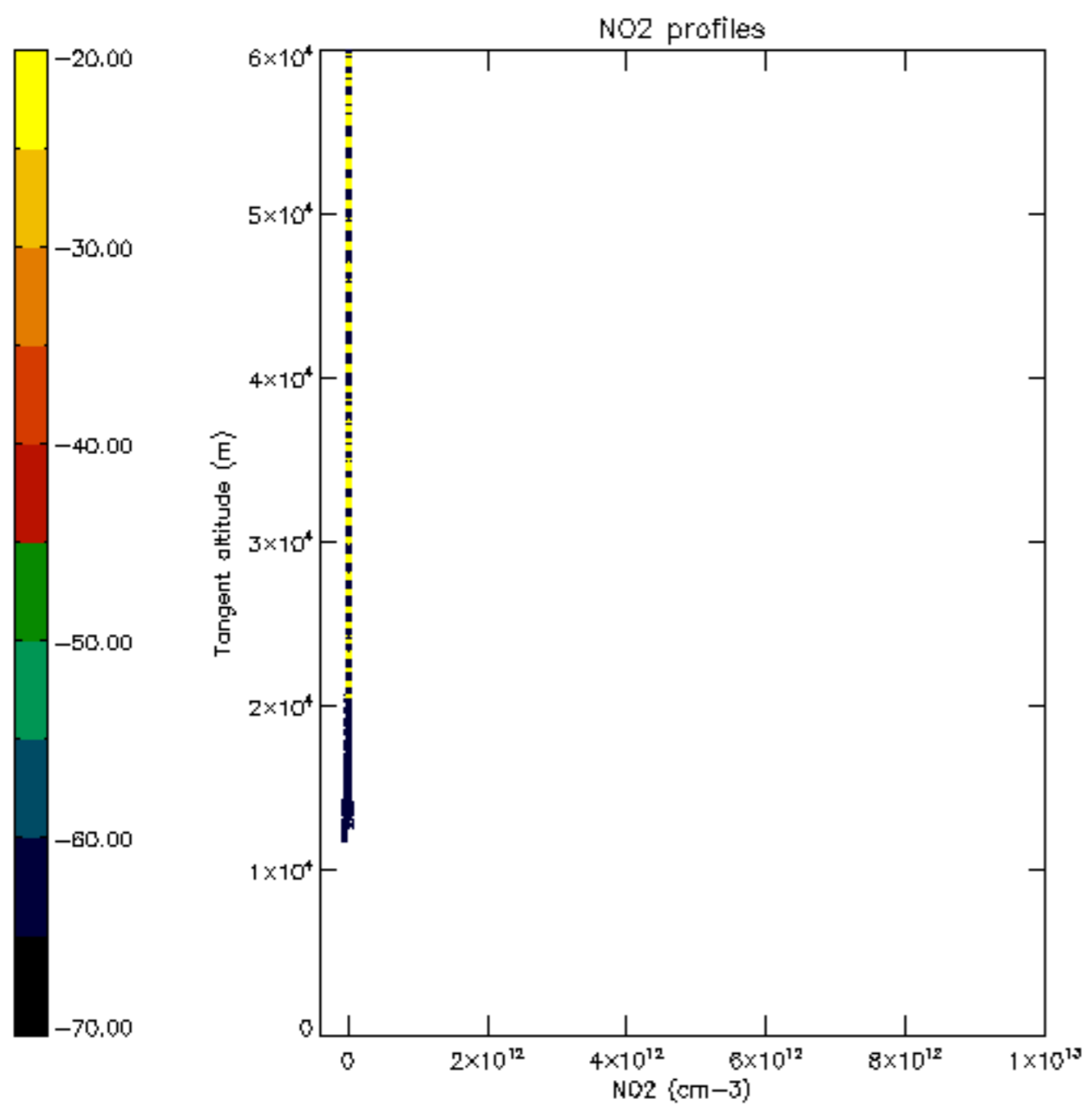


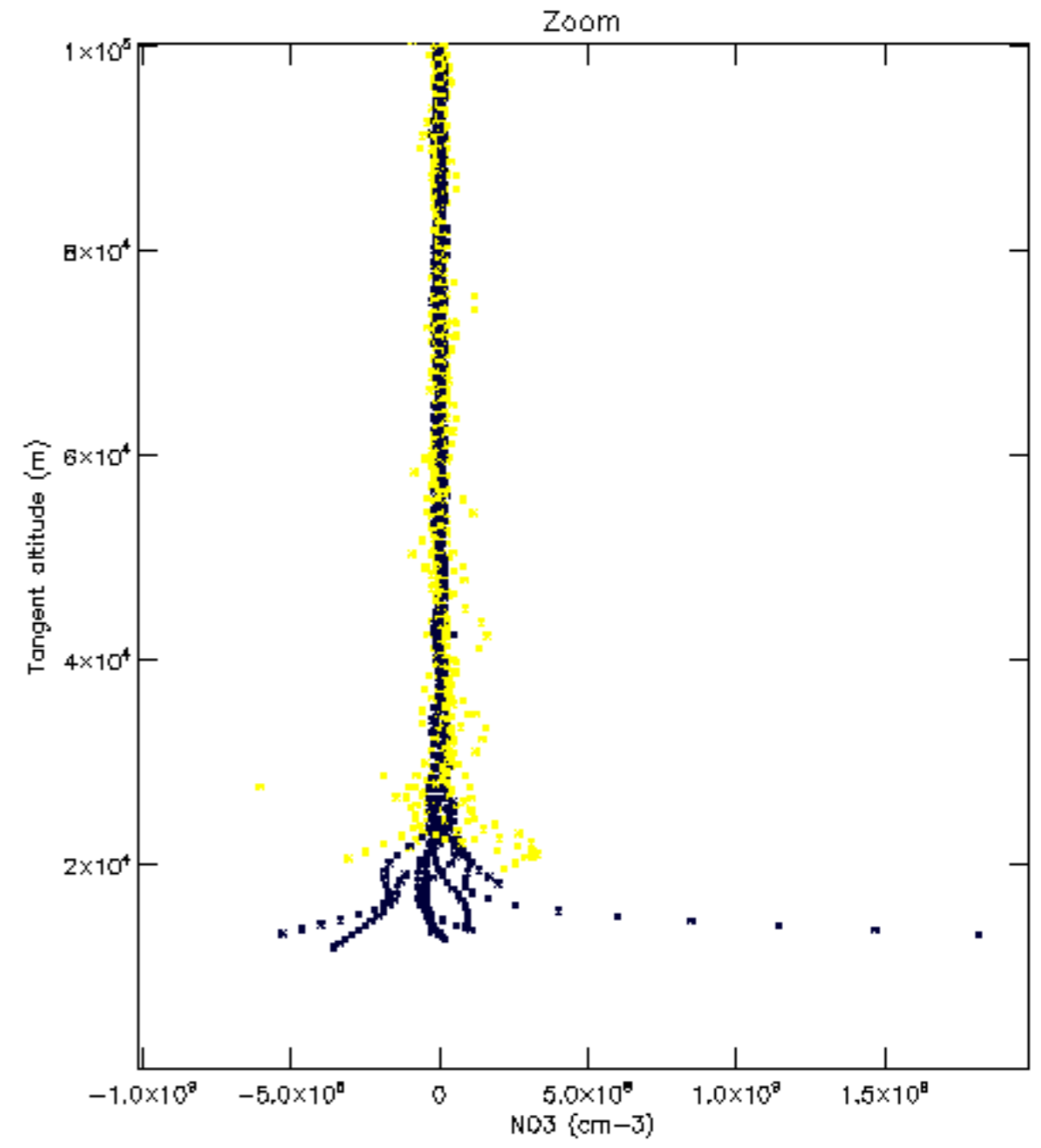
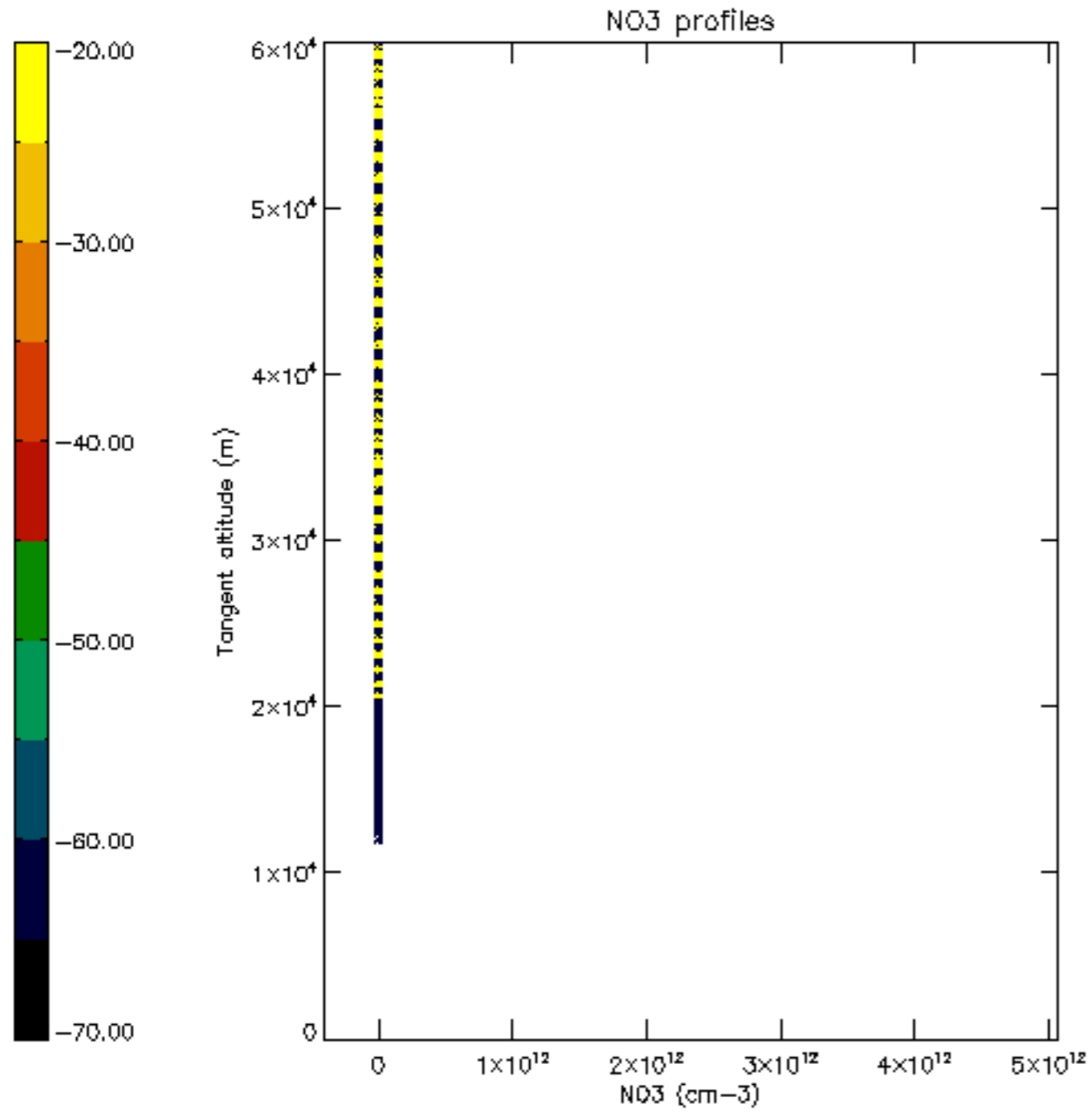


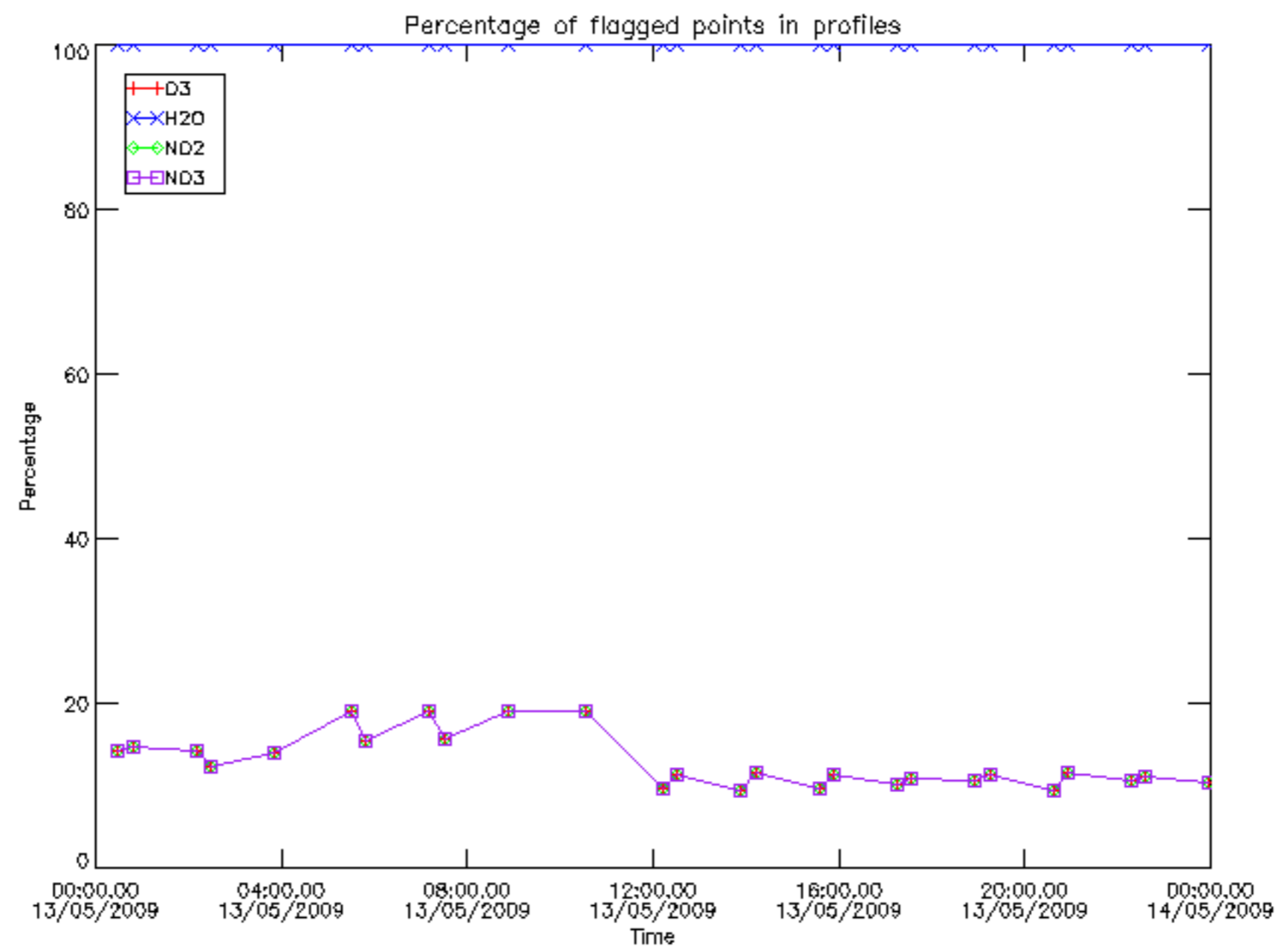




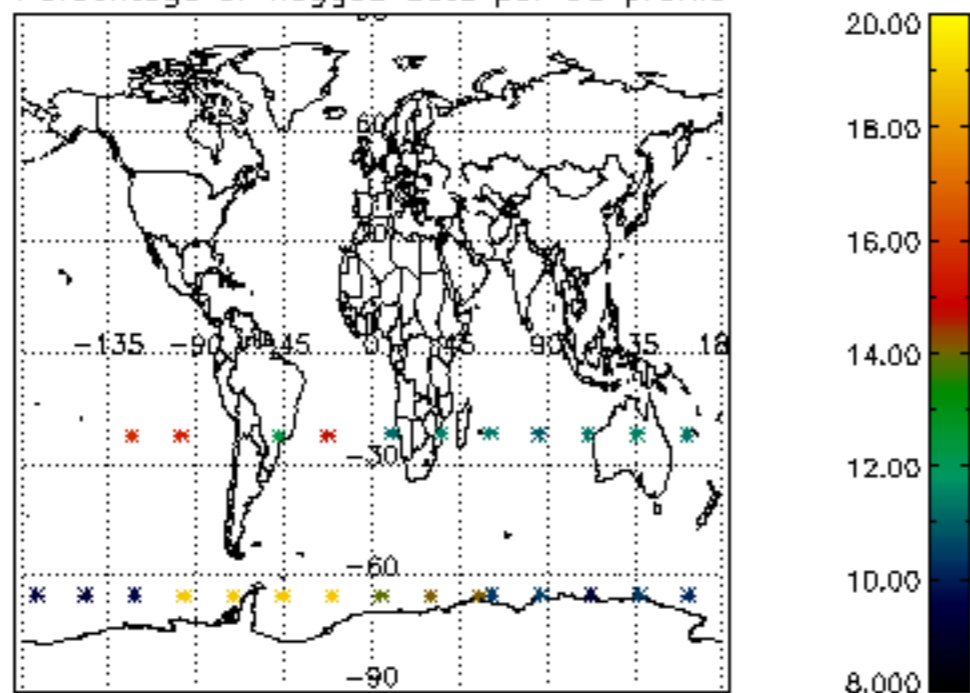




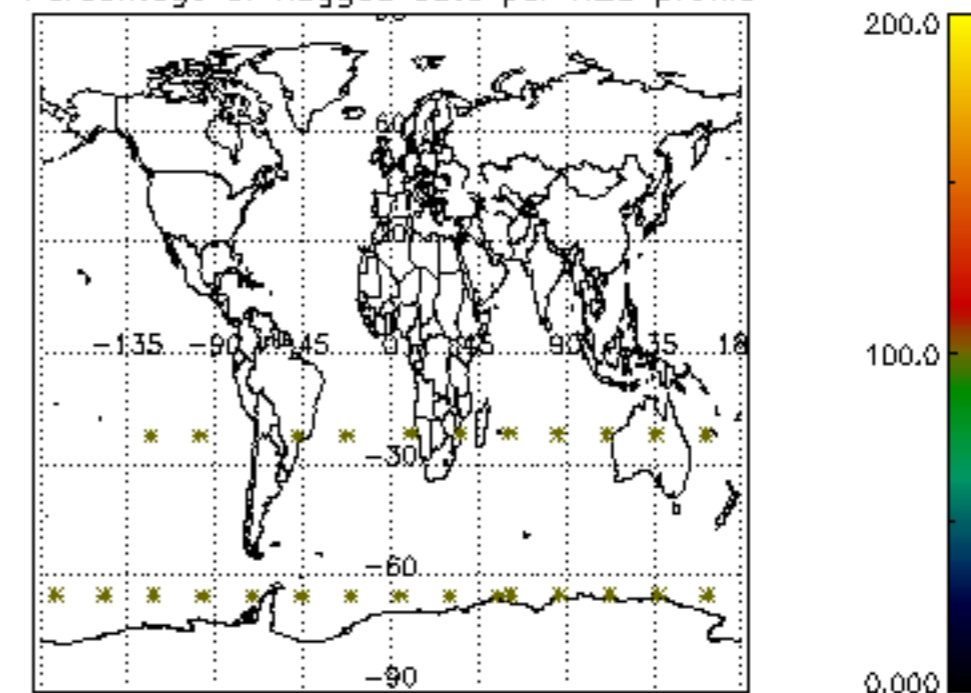




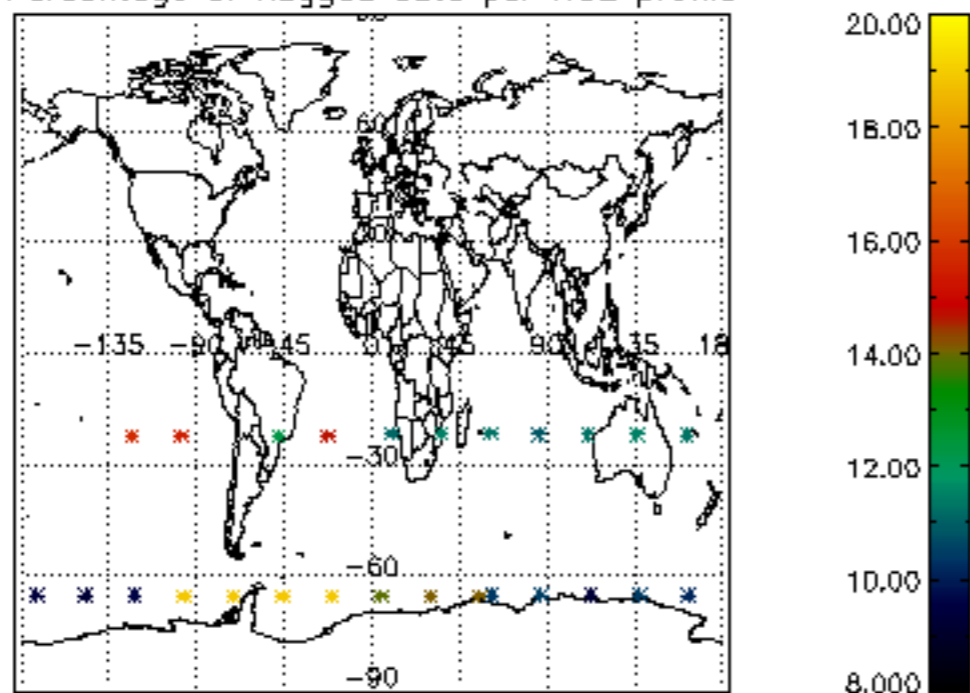
Percentage of flagged data per D3 profile



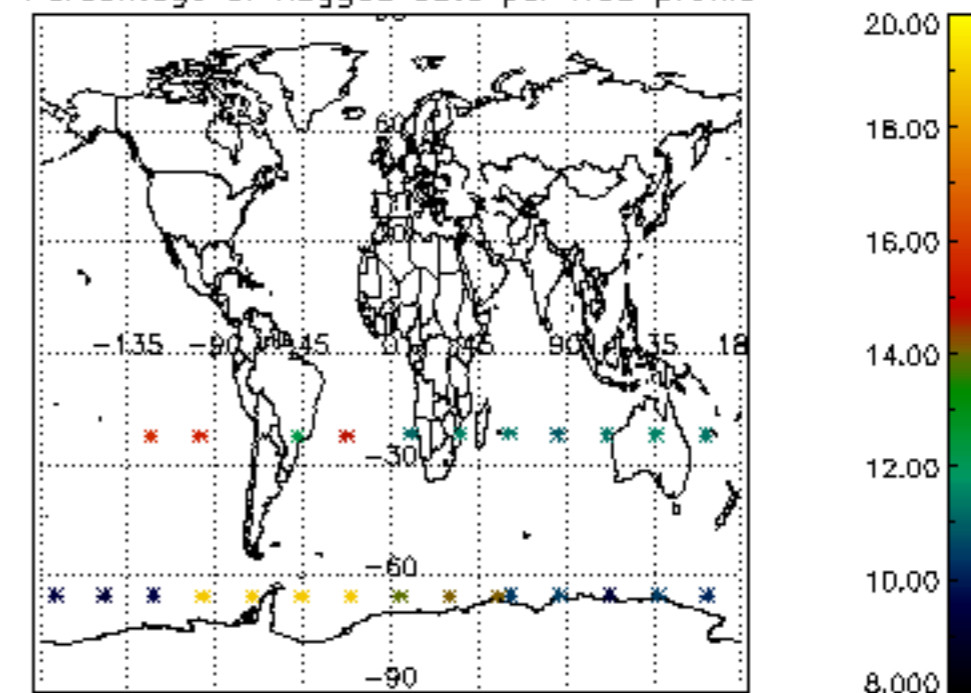
Percentage of flagged data per H2O profile

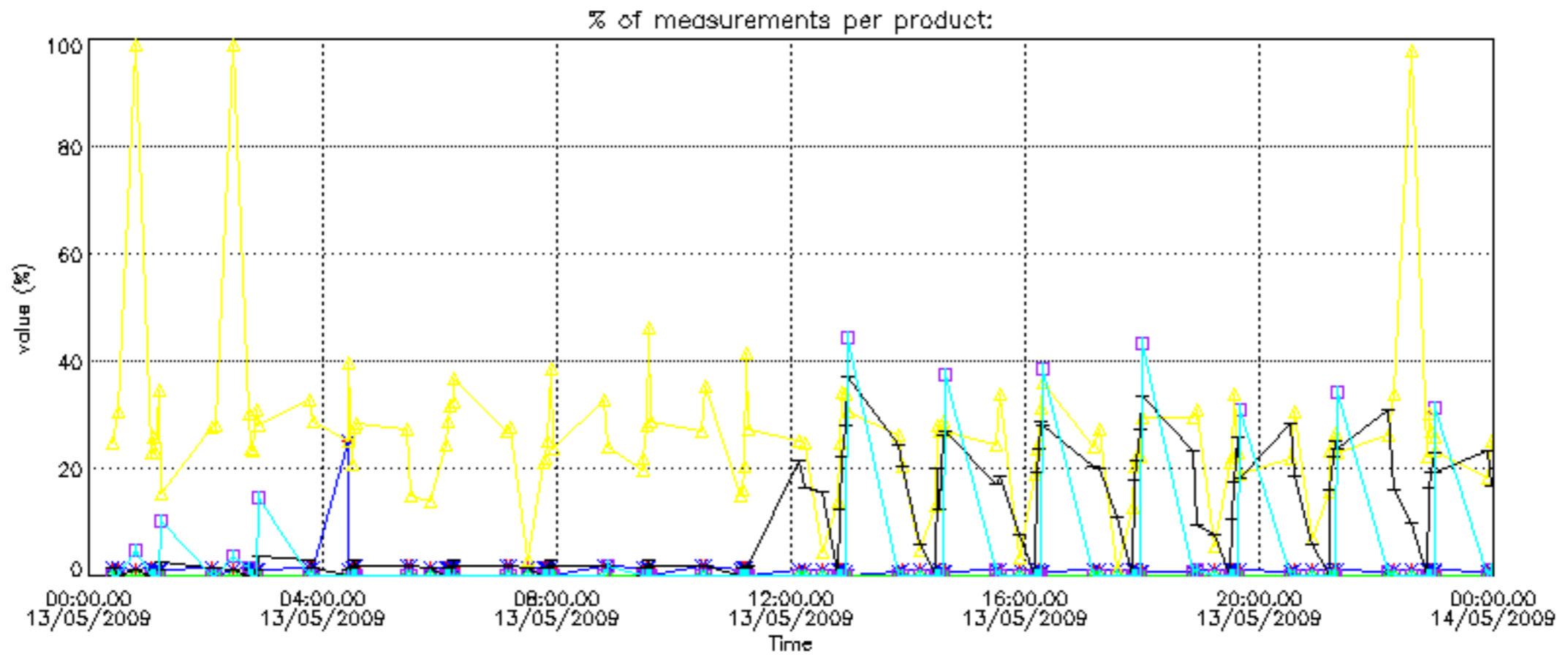


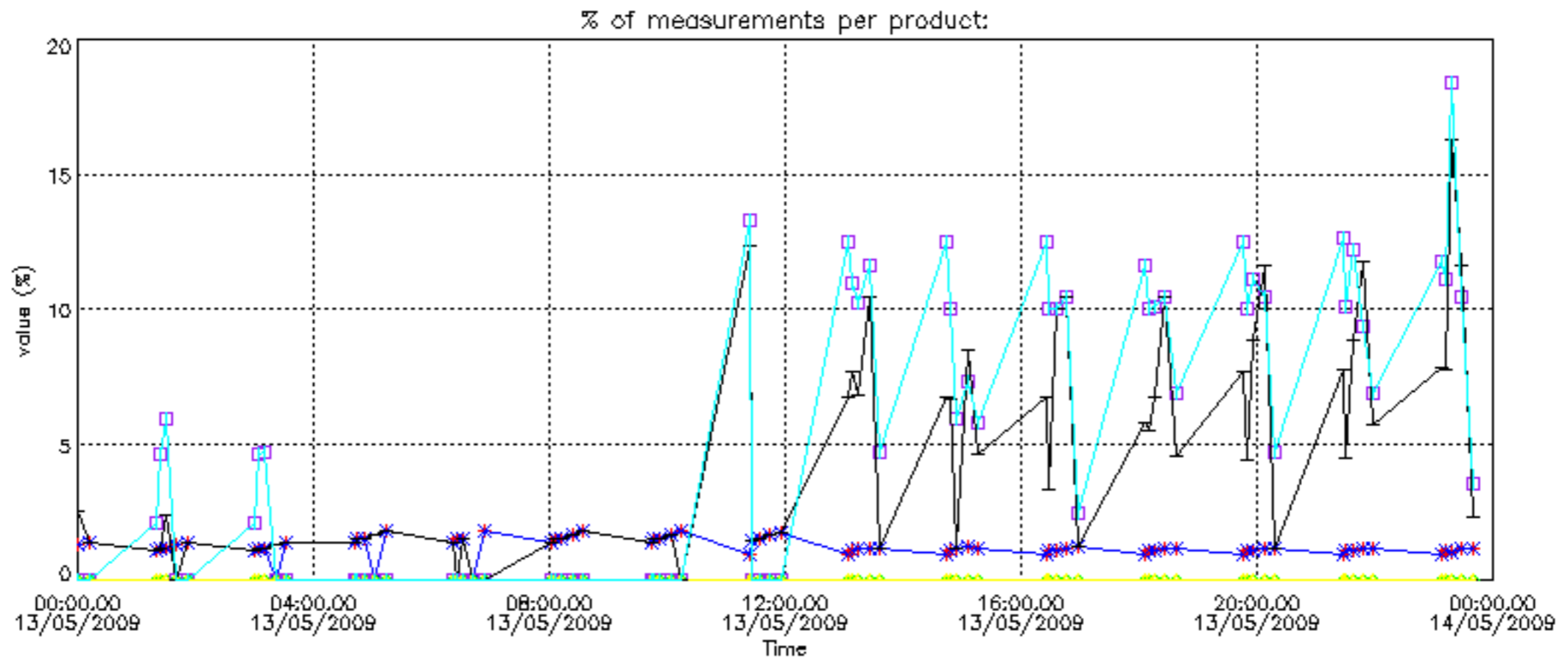
Percentage of flagged data per NO2 profile



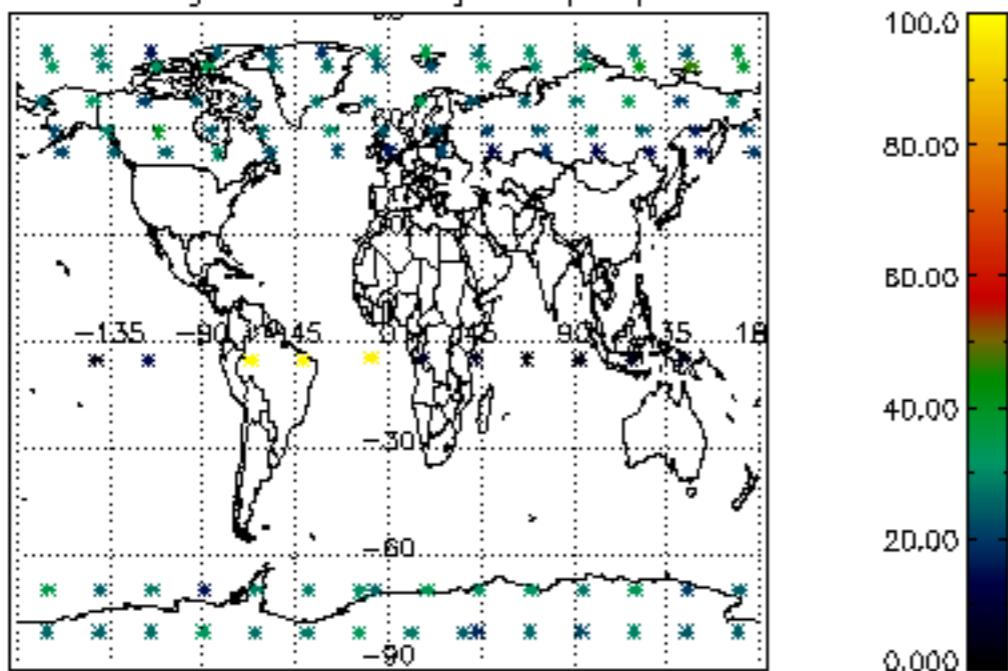
Percentage of flagged data per NO3 profile



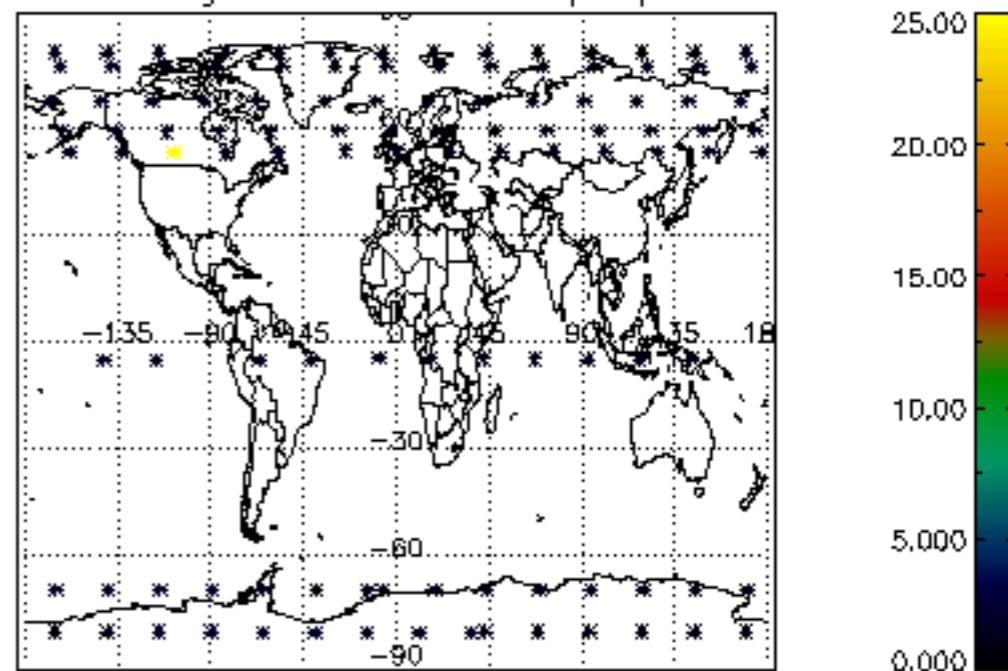




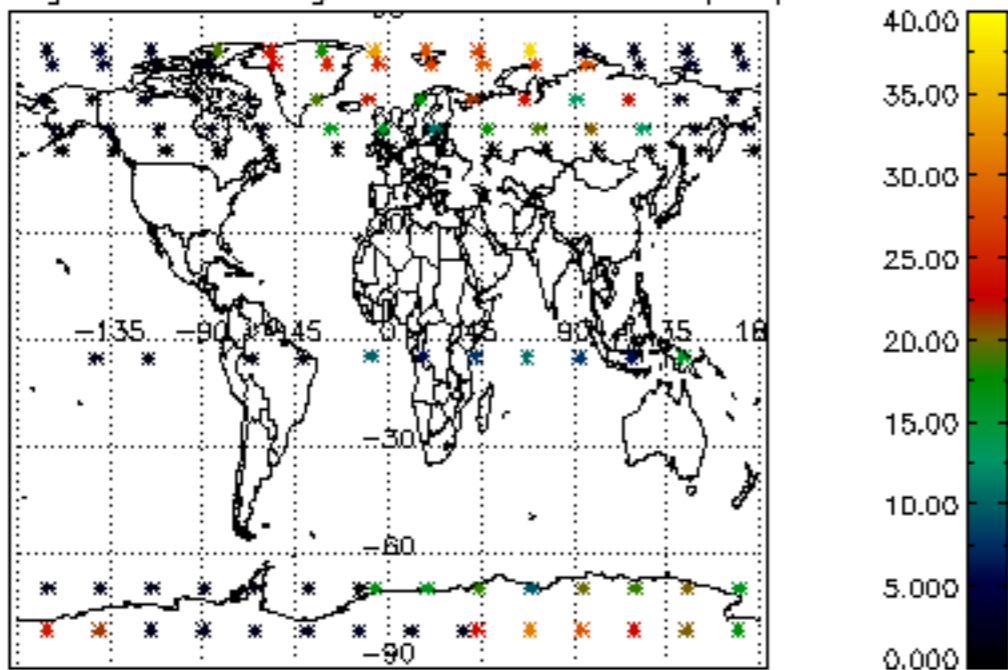
Percentage of cosmic ray hits per profile



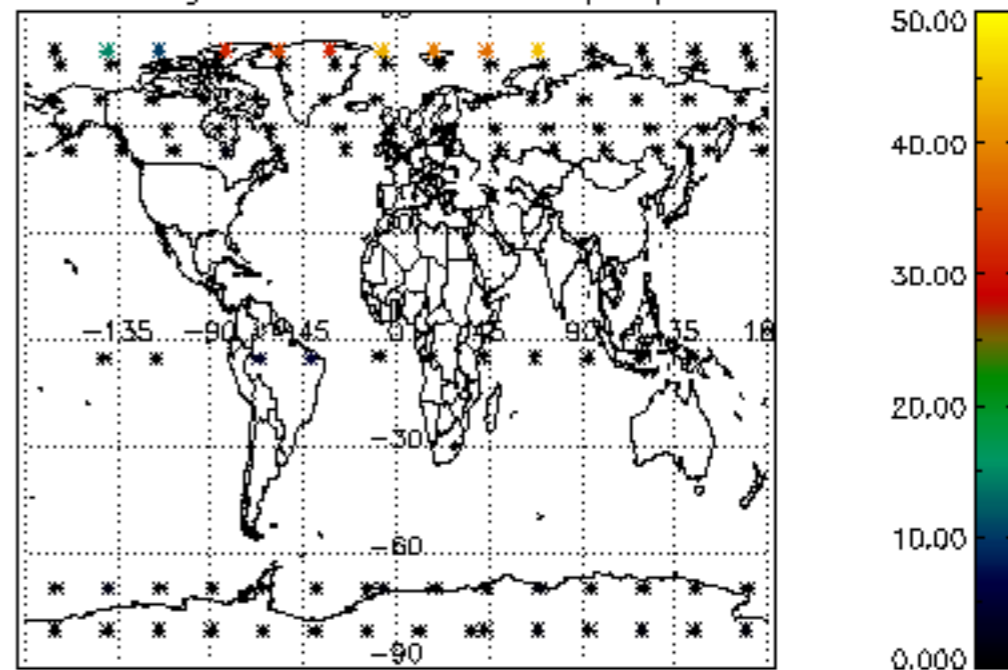
Percentage of datation errors per profile



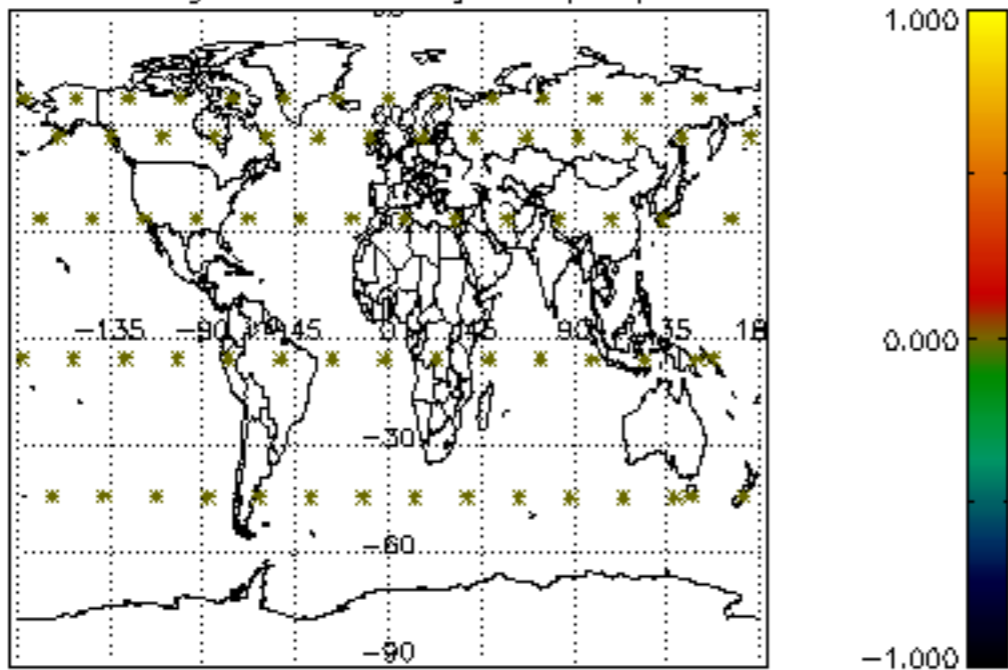
Percentage of star falling outside central band per profile



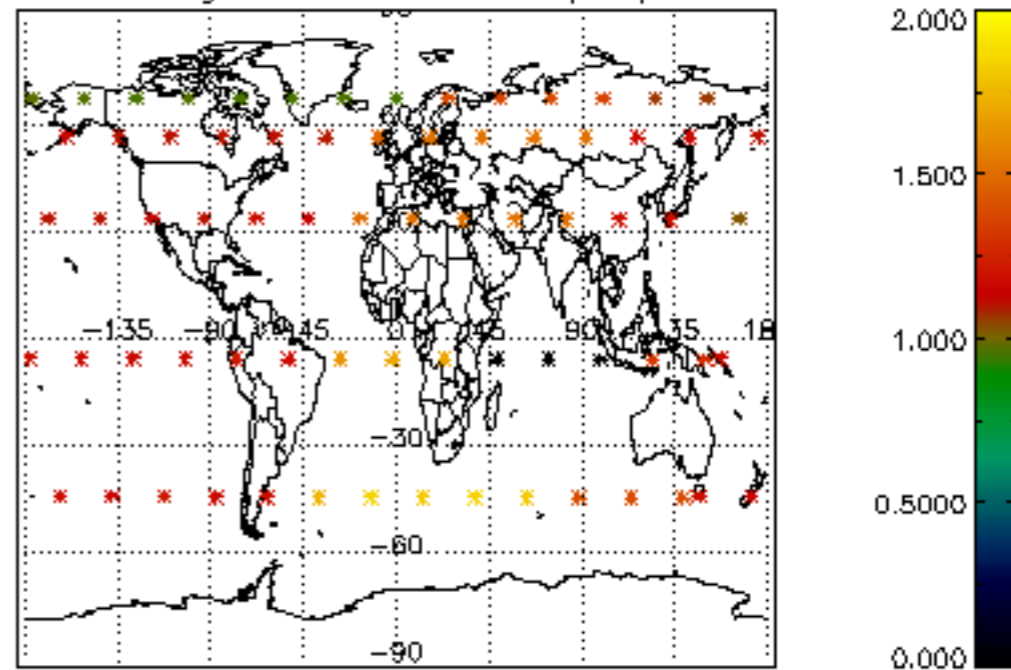
Percentage of saturation errors per profile



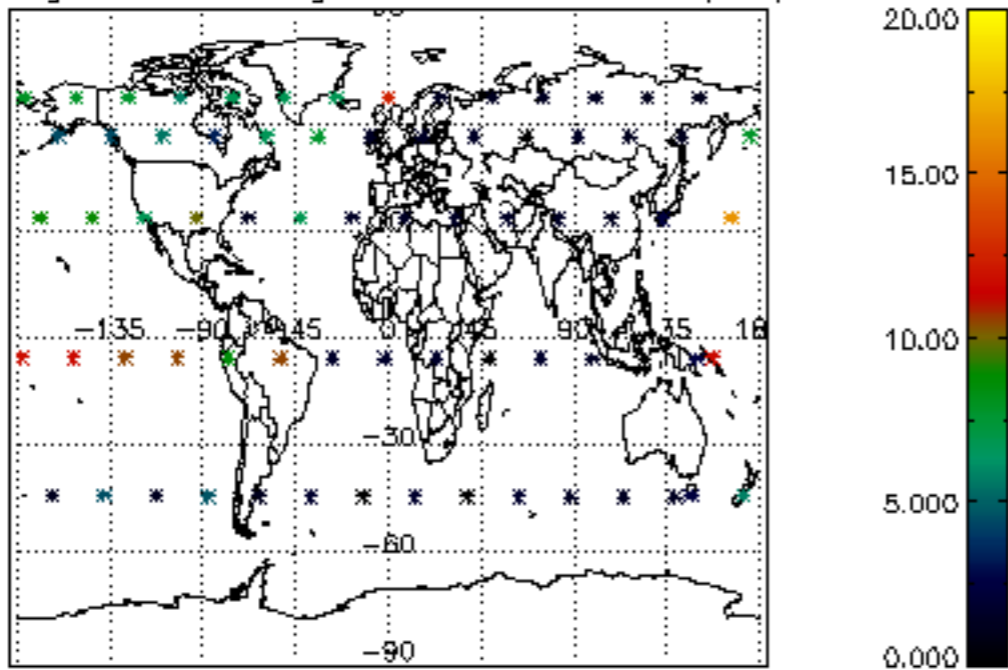
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

