

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	26APR2013 12:32:38
Data source version	GOMOS/6.01
Start time of products	07-09-2009 (07SEP2009 00:00:00)
Stop time of products	08-09-2009 (08SEP2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	198
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

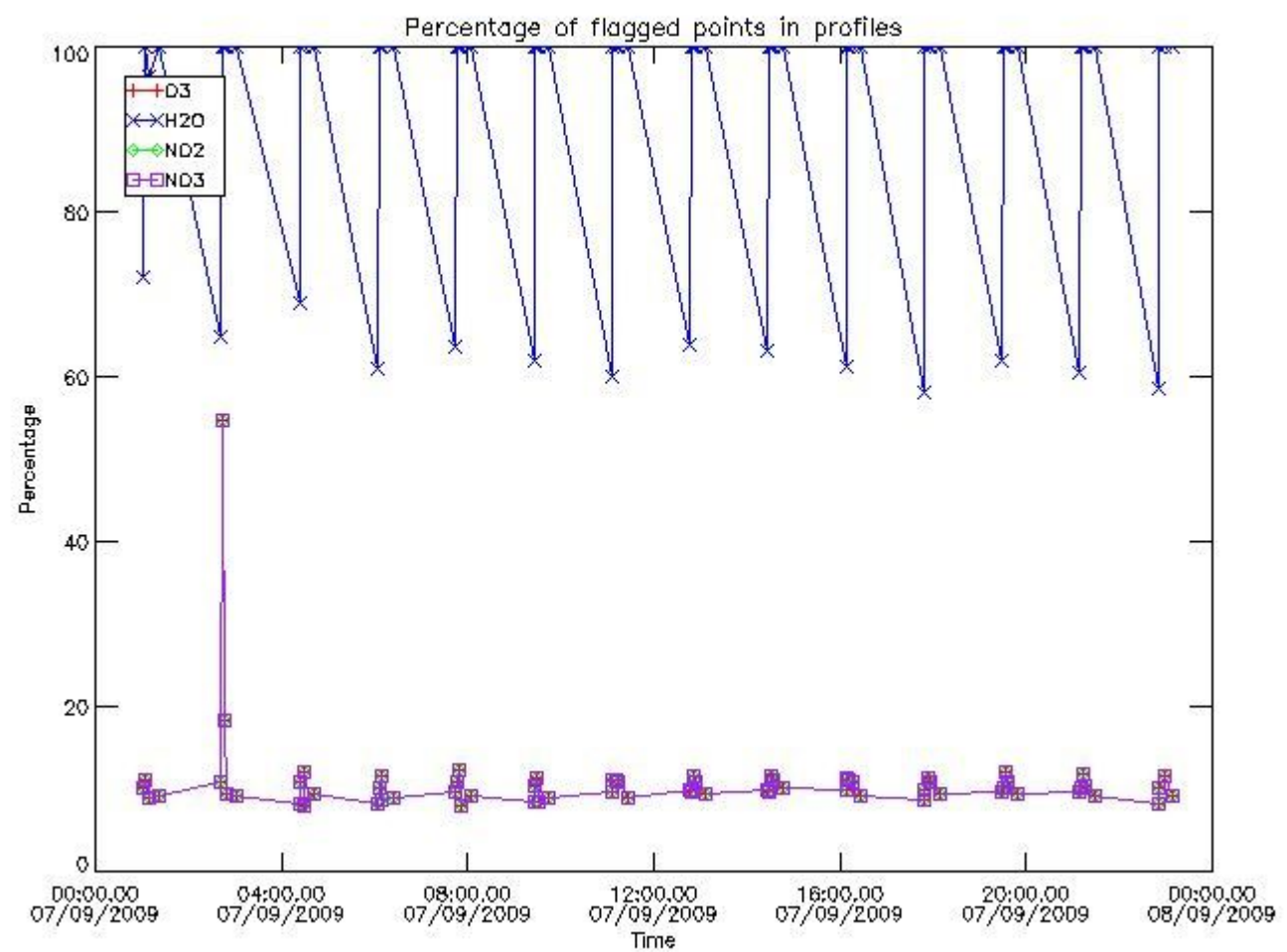
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090907_000819_000000492082_00188_39320_4222.N1	07-SEP-2009 00:08:19	Bright	49.000	90	54Alp Peg	2.4870	11000.	98	39320	No
2	GOM_NL__2PRFIN20090907_001232_000000392082_00188_39320_4223.N1	07-SEP-2009 00:12:32	Bright	38.500	164	44Eta Peg	2.9480	5400.0	77	39320	No
3	GOM_NL__2PRFIN20090907_002259_000000432082_00188_39320_4224.N1	07-SEP-2009 00:22:59	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	39320	No
4	GOM_NL__2PRFIN20090907_002500_000000452082_00188_39320_4225.N1	07-SEP-2009 00:25:00	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	39320	No
5	GOM_NL__2PRFIN20090907_004121_000000462082_00188_39320_4226.N1	07-SEP-2009 00:41:21	Bright	46.000	42	34Bet Aur	1.9000	10200.	92	39320	No
6	GOM_NL__2PRFIN20090907_004425_000000492082_00188_39320_4227.N1	07-SEP-2009 00:44:25	Bright	49.000	107	37The Aur	2.6490	11000.	98	39320	No
7	GOM_NL__2PRFIN20090907_005004_000000642082_00188_39320_4228.N1	07-SEP-2009 00:50:04	Twilight	64.000	151	13Mu Gem	2.8900	3000.0	128	39320	No
8	GOM_NL__2PRFIN20090907_005156_000000542082_00188_39320_4229.N1	07-SEP-2009 00:51:56	Twilight	54.000	44	24Gam Gem	1.9280	11000.	108	39320	No
9	GOM_NL__2PRFIN20090907_010200_000000512082_00188_39320_4230.N1	07-SEP-2009 01:02:00	Dark	50.500	1	9Alp CMa	-1.4400	11000.	101	39320	No
10	GOM_NL__2PRFIN20090907_010329_000000512082_00188_39320_4231.N1	07-SEP-2009 01:03:29	Dark	51.000	47	2Bet CMa	1.9760	28000.	102	39320	No
11	GOM_NL__2PRFIN20090907_010805_000000582082_00188_39320_4232.N1	07-SEP-2009 01:08:05	Dark	57.500	139	9Bet Lep	2.8330	5600.0	115	39320	No
12	GOM_NL__2PRFIN20090907_012152_000000552082_00189_39321_4236.N1	07-SEP-2009 01:21:52	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39321	No
13	GOM_NL__2PRFIN20090907_012852_000000462082_00189_39321_4237.N1	07-SEP-2009 01:28:52	Straylight	45.500	84	Alp Phe	2.3970	4500.0	91	39321	No
14	GOM_NL__2PRFIN20090907_014855_000000432082_00189_39321_4238.N1	07-SEP-2009 01:48:55	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	39321	No
15	GOM_NL__2PRFIN20090907_015308_000000402082_00189_39321_4239.N1	07-SEP-2009 01:53:08	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	39321	No
16	GOM_NL__2PRFIN20090907_020334_000000402082_00189_39321_4240.N1	07-SEP-2009 02:03:34	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	39321	No
17	GOM_NL__2PRFIN20090907_020535_000000412082_00189_39321_4241.N1	07-SEP-2009 02:05:35	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	39321	No
18	GOM_NL__2PRFIN20090907_022157_000000482082_00189_39321_4242.N1	07-SEP-2009 02:21:57	Bright	47.500	42	34Bet Aur	1.9000	10200.	95	39321	No
19	GOM_NL__2PRFIN20090907_022501_000000512082_00189_39321_4243.N1	07-SEP-2009 02:25:01	Bright	50.500	107	37The Aur	2.6490	11000.	101	39321	No
20	GOM_NL__2PRFIN20090907_023040_000000632082_00189_39321_4244.N1	07-SEP-2009 02:30:40	Twilight	63.000	151	13Mu Gem	2.8900	3000.0	126	39321	No
21	GOM_NL__2PRFIN20090907_023233_000000532082_00189_39321_4245.N1	07-SEP-2009 02:32:33	Twilight	52.500	44	24Gam Gem	1.9280	11000.	105	39321	No
22	GOM_NL__2PRFIN20090907_024237_000000562082_00189_39321_4246.N1	07-SEP-2009 02:42:37	Dark	56.000	1	9Alp CMa	-1.4400	11000.	112	39321	No
23	GOM_NL__2PRFIN20090907_024406_000000502082_00189_39321_4247.N1	07-SEP-2009 02:44:06	Dark	50.000	47	2Bet CMa	1.9760	28000.	100	39321	No
24	GOM_NL__2PRFIN20090907_024710_000000452082_00189_39321_4248.N1	07-SEP-2009 02:47:10	Dark	44.500	177	1Zet CMa	3.0220	26000.	89	39321	No
25	GOM_NL__2PRFIN20090907_024842_000000602082_00189_39321_4249.N1	07-SEP-2009 02:48:42	Dark	59.500	139	9Bet Lep	2.8330	5600.0	119	39321	No
26	GOM_NL__2PRFIN20090907_030229_000000562082_00190_39322_4252.N1	07-SEP-2009 03:02:29	Dark	55.500	157	The1Eri	2.9060	9300.0	111	39322	No
27	GOM_NL__2PRFIN20090907_030928_000000482082_00190_39322_4253.N1	07-SEP-2009 03:09:28	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	39322	No
28	GOM_NL__2PRFIN20090907_032930_000000632082_00190_39322_4254.N1	07-SEP-2009 03:29:30	Bright	63.000	90	54Alp Peg	2.4870	11000.	126	39322	No
29	GOM_NL__2PRFIN20090907_033343_000000402082_00190_39322_4255.N1	07-SEP-2009 03:33:43	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	39322	No
30	GOM_NL__2PRFIN20090907_034409_000000432082_00190_39322_4256.N1	07-SEP-2009 03:44:09	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	39322	No
31	GOM_NL__2PRFIN20090907_034610_000000442082_00190_39322_4257.N1	07-SEP-2009 03:46:10	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	39322	No
32	GOM_NL__2PRFIN20090907_040233_000000482082_00190_39322_4258.N1	07-SEP-2009 04:02:33	Bright	47.500	42	34Bet Aur	1.9000	10200.	95	39322	No
33	GOM_NL__2PRFIN20090907_040537_000000502082_00190_39322_4259.N1	07-SEP-2009 04:05:37	Bright	49.500	107	37The Aur	2.6490	11000.	99	39322	No
34	GOM_NL__2PRFIN20090907_041117_000000632082_00190_39322_4260.N1	07-SEP-2009 04:11:17	Twilight	62.500	151	13Mu Gem	2.8900	3000.0	125	39322	No
35	GOM_NL__2PRFIN20090907_041309_000000502082_00190_39322_4261.N1	07-SEP-2009 04:13:09	Twilight	50.000	44	24Gam Gem	1.9280	11000.	100	39322	No
36	GOM_NL__2PRFIN20090907_042314_000000632082_00190_39322_4262.N1	07-SEP-2009 04:23:14	Dark	63.000	1	9Alp CMa	-1.4400	11000.	126	39322	No
37	GOM_NL__2PRFIN20090907_042443_000000522082_00190_39322_4263.N1	07-SEP-2009 04:24:43	Dark	52.000	47	2Bet CMa	1.9760	28000.	104	39322	No
38	GOM_NL__2PRFIN20090907_042747_000000422082_00190_39322_4264.N1	07-SEP-2009 04:27:47	Dark	42.000	177	1Zet CMa	3.0220	26000.	84	39322	No
39	GOM_NL__2PRFIN20090907_042920_000000652082_00190_39322_4265.N1	07-SEP-2009 04:29:20	Dark	64.500	139	9Bet Lep	2.8330	5600.0	129	39322	No
40	GOM_NL__2PRFIN20090907_044306_000000552082_00191_39323_4266.N1	07-SEP-2009 04:43:06	Dark	54.500	157	The1Eri	2.9060	9300.0	109	39323	No
41	GOM_NL__2PRFIN20090907_045004_000000462082_00191_39323_4267.N1	07-SEP-2009 04:50:04	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	39323	No
42	GOM_NL__2PRFIN20090907_051006_000000432082_00191_39323_4268.N1	07-SEP-2009 05:10:06	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	39323	No

161	GOM_NL__2PRFIN20090907_191837_000000572082_00199_39331_4423.N1	07-SEP-2009 19:18:37	Twilight	56.500	44	24Gam Gem	1.9280	11000.	113	39331	No
162	GOM_NL__2PRFIN20090907_192844_000000532082_00199_39331_4424.N1	07-SEP-2009 19:28:44	Dark	53.000	1	9Alp CMa	-1.4400	11000.	106	39331	No
163	GOM_NL__2PRFIN20090907_193015_000000512082_00199_39331_4425.N1	07-SEP-2009 19:30:15	Dark	50.500	47	2Bet CMa	1.9760	28000.	101	39331	No
164	GOM_NL__2PRFIN20090907_193318_000000422082_00199_39331_4426.N1	07-SEP-2009 19:33:18	Dark	42.000	177	1Zet CMa	3.0220	26000.	84	39331	No
165	GOM_NL__2PRFIN20090907_193629_000000472082_00199_39331_4427.N1	07-SEP-2009 19:36:29	Dark	46.500	108	Alp Col	2.6520	15200.	93	39331	No
166	GOM_NL__2PRFIN20090907_194840_000000542082_00200_39332_4432.N1	07-SEP-2009 19:48:40	Dark	54.000	157	The1Eri	2.9060	9300.0	108	39332	No
167	GOM_NL__2PRFIN20090907_195532_000000472082_00200_39332_4433.N1	07-SEP-2009 19:55:32	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	39332	No
168	GOM_NL__2PRFIN20090907_201526_000000422082_00200_39332_4434.N1	07-SEP-2009 20:15:26	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	39332	No
169	GOM_NL__2PRFIN20090907_201939_000000402082_00200_39332_4435.N1	07-SEP-2009 20:19:39	Bright	39.500	164	44Eta Peg	2.9480	5400.0	79	39332	No
170	GOM_NL__2PRFIN20090907_203003_000000432082_00200_39332_4436.N1	07-SEP-2009 20:30:03	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	39332	No
171	GOM_NL__2PRFIN20090907_203203_000000442082_00200_39332_4437.N1	07-SEP-2009 20:32:03	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	39332	No
172	GOM_NL__2PRFIN20090907_204830_000000492082_00200_39332_4438.N1	07-SEP-2009 20:48:30	Bright	49.000	42	34Bet Aur	1.9000	10200.	98	39332	No
173	GOM_NL__2PRFIN20090907_205136_000000532082_00200_39332_4439.N1	07-SEP-2009 20:51:36	Bright	53.000	107	37The Aur	2.6490	11000.	106	39332	No
174	GOM_NL__2PRFIN20090907_205720_000000632082_00200_39332_4440.N1	07-SEP-2009 20:57:20	Twilight	62.500	151	13Mu Gem	2.8900	3000.0	125	39332	No
175	GOM_NL__2PRFIN20090907_205913_000000542082_00200_39332_4441.N1	07-SEP-2009 20:59:13	Twilight	54.000	44	24Gam Gem	1.9280	11000.	108	39332	No
176	GOM_NL__2PRFIN20090907_210921_000000542082_00200_39332_4442.N1	07-SEP-2009 21:09:21	Dark	53.500	1	9Alp CMa	-1.4400	11000.	107	39332	No
177	GOM_NL__2PRFIN20090907_211052_000000512082_00200_39332_4443.N1	07-SEP-2009 21:10:52	Dark	50.500	47	2Bet CMa	1.9760	28000.	101	39332	No
178	GOM_NL__2PRFIN20090907_211355_000000442082_00200_39332_4444.N1	07-SEP-2009 21:13:55	Dark	43.500	177	1Zet CMa	3.0220	26000.	87	39332	No
179	GOM_NL__2PRFIN20090907_211706_000000492082_00200_39332_4445.N1	07-SEP-2009 21:17:06	Dark	49.000	108	Alp Col	2.6520	15200.	98	39332	No
180	GOM_NL__2PRFIN20090907_212916_000000562082_00201_39333_4450.N1	07-SEP-2009 21:29:16	Dark	55.500	157	The1Eri	2.9060	9300.0	111	39333	No
181	GOM_NL__2PRFIN20090907_213609_000000452082_00201_39333_4451.N1	07-SEP-2009 21:36:09	Straylight	45.000	84	Alp Phe	2.3970	4500.0	90	39333	No
182	GOM_NL__2PRFIN20090907_215601_000000632082_00201_39333_4452.N1	07-SEP-2009 21:56:01	Bright	63.000	90	54Alp Peg	2.4870	11000.	126	39333	No
183	GOM_NL__2PRFIN20090907_220015_000000412082_00201_39333_4453.N1	07-SEP-2009 22:00:15	Bright	40.500	164	44Eta Peg	2.9480	5400.0	81	39333	No
184	GOM_NL__2PRFIN20090907_221038_000000442082_00201_39333_4454.N1	07-SEP-2009 22:10:38	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	39333	No
185	GOM_NL__2PRFIN20090907_221238_000000462082_00201_39333_4455.N1	07-SEP-2009 22:12:38	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	39333	No
186	GOM_NL__2PRFIN20090907_222906_000000522082_00201_39333_4456.N1	07-SEP-2009 22:29:06	Bright	52.000	42	34Bet Aur	1.9000	10200.	104	39333	No
187	GOM_NL__2PRFIN20090907_223212_000000532082_00201_39333_4457.N1	07-SEP-2009 22:32:12	Bright	52.500	107	37The Aur	2.6490	11000.	105	39333	No
188	GOM_NL__2PRFIN20090907_223756_000000732082_00201_39333_4458.N1	07-SEP-2009 22:37:56	Twilight	72.500	151	13Mu Gem	2.8900	3000.0	145	39333	No
189	GOM_NL__2PRFIN20090907_223950_000000562082_00201_39333_4459.N1	07-SEP-2009 22:39:50	Twilight	55.500	44	24Gam Gem	1.9280	11000.	111	39333	No
190	GOM_NL__2PRFIN20090907_224957_000000632082_00201_39333_4460.N1	07-SEP-2009 22:49:57	Dark	63.000	1	9Alp CMa	-1.4400	11000.	126	39333	No
191	GOM_NL__2PRFIN20090907_225129_000000512082_00201_39333_4461.N1	07-SEP-2009 22:51:29	Dark	50.500	47	2Bet CMa	1.9760	28000.	101	39333	No
192	GOM_NL__2PRFIN20090907_225743_000000482082_00201_39333_4462.N1	07-SEP-2009 22:57:43	Dark	48.000	108	Alp Col	2.6520	15200.	96	39333	No
193	GOM_NL__2PRFIN20090907_230954_000000552082_00202_39334_4466.N1	07-SEP-2009 23:09:54	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39334	No
194	GOM_NL__2PRFIN20090907_231645_000000472082_00202_39334_4467.N1	07-SEP-2009 23:16:45	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	39334	No
195	GOM_NL__2PRFIN20090907_233637_000000432082_00202_39334_4468.N1	07-SEP-2009 23:36:37	Bright	42.500	90	54Alp Peg	2.4870	11000.	85	39334	No
196	GOM_NL__2PRFIN20090907_234050_000000392082_00202_39334_4469.N1	07-SEP-2009 23:40:50	Bright	38.500	164	44Eta Peg	2.9480	5400.0	77	39334	No
197	GOM_NL__2PRFIN20090907_235114_000000432082_00202_39334_4470.N1	07-SEP-2009 23:51:14	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	39334	No
198	GOM_NL__2PRFIN20090907_235313_000000422082_00202_39334_4471.N1	07-SEP-2009 23:53:13	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	39334	No

3. Quality information per product

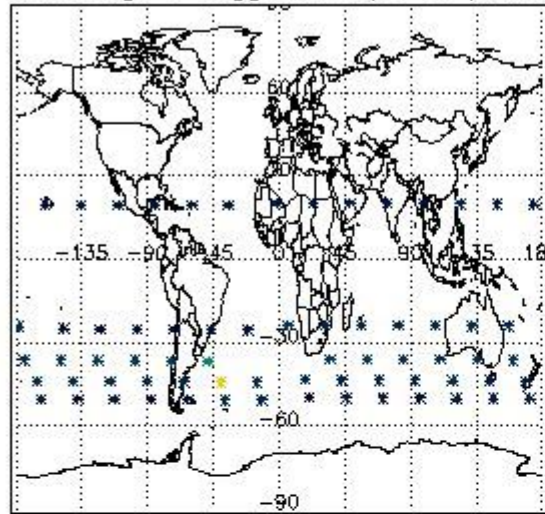
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

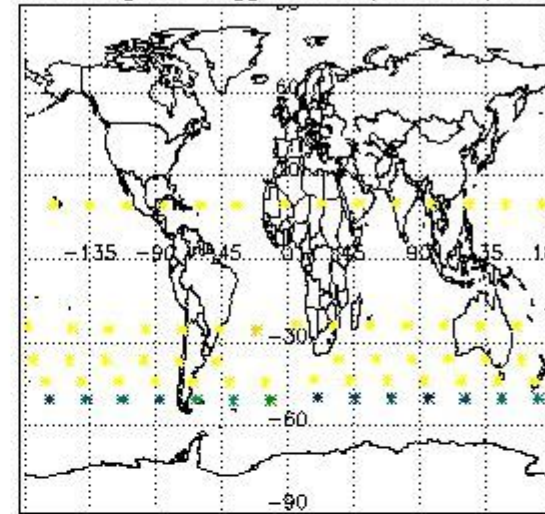


3.2 Plot quality information per product (world map)

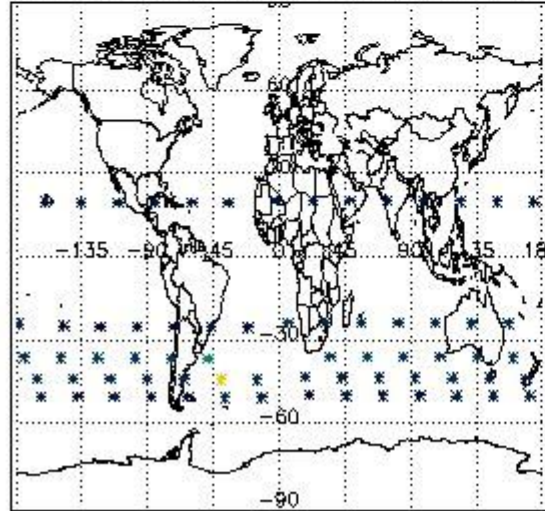
Percentage of flagged data per O3 profile



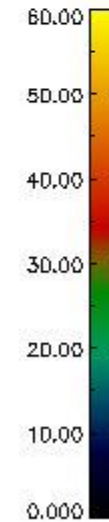
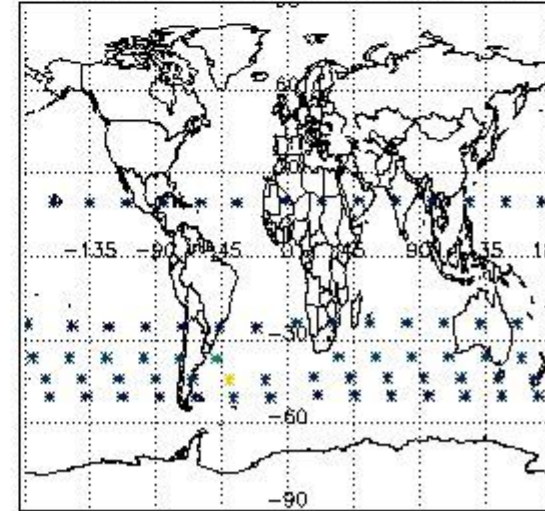
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

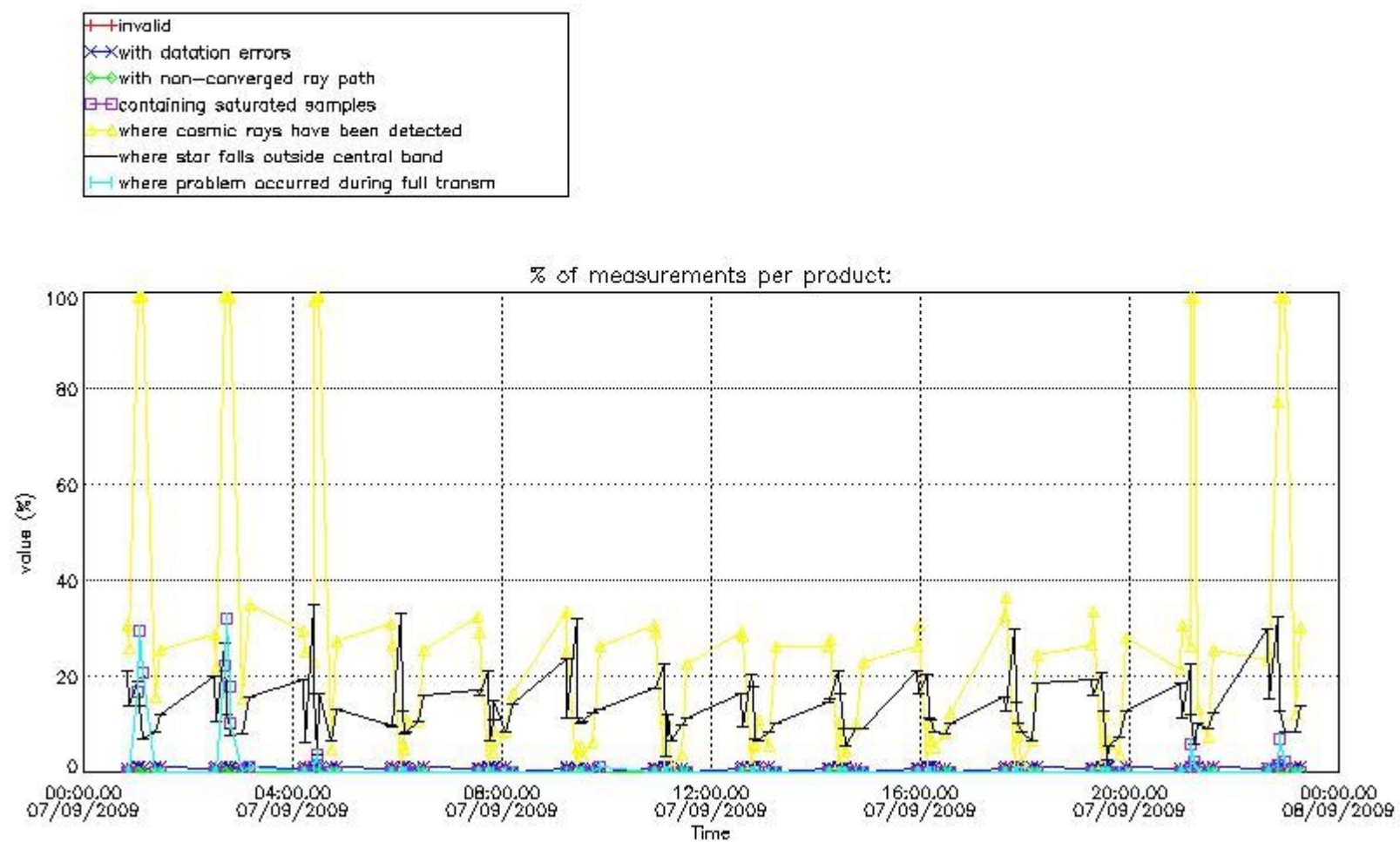


4. Level 1 quality information per product

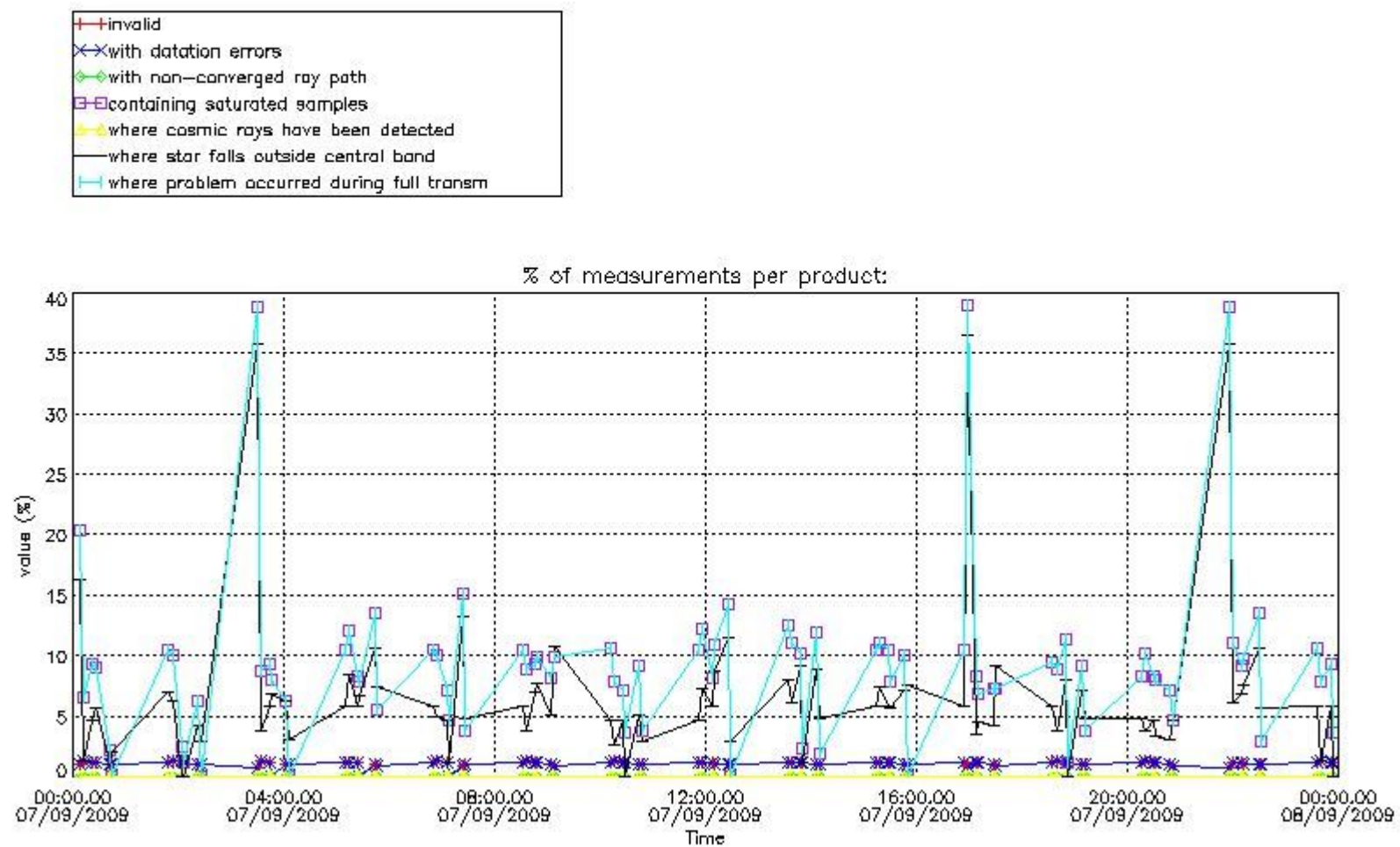
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



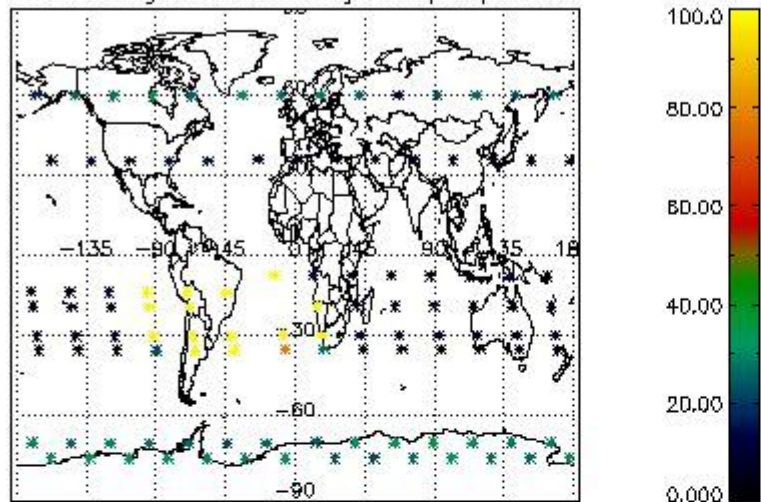
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



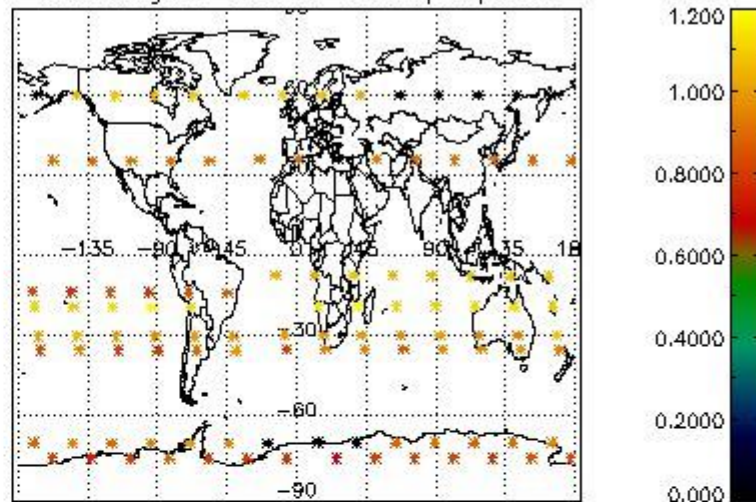
4.2 Plot quality information per product coming from level 1b processing (world map)

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

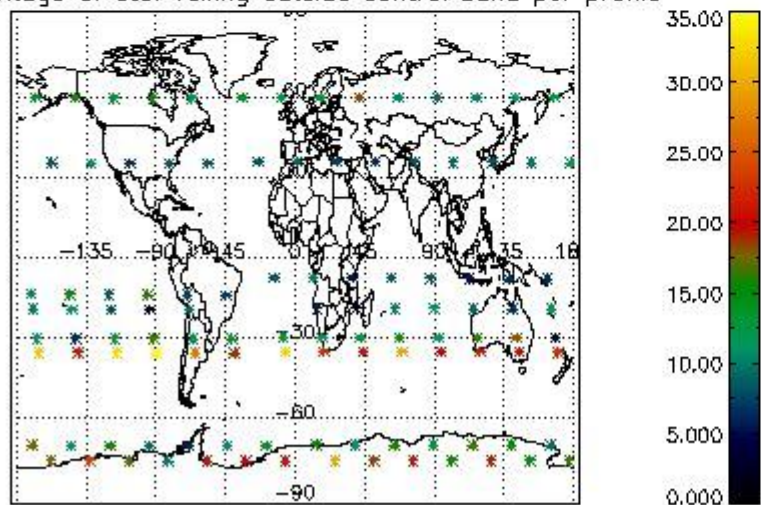
Percentage of cosmic ray hits per profile



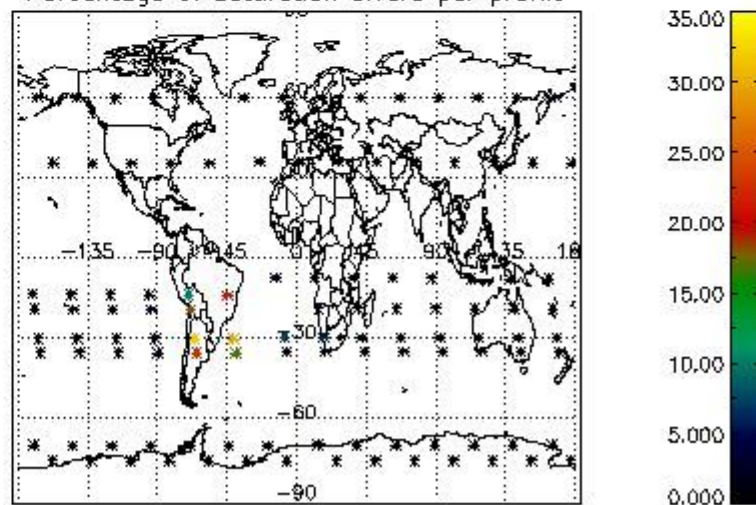
Percentage of datation errors per profile



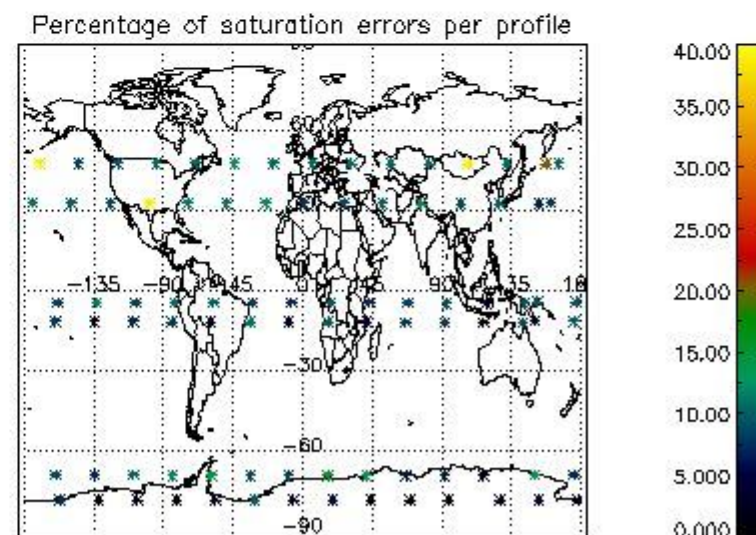
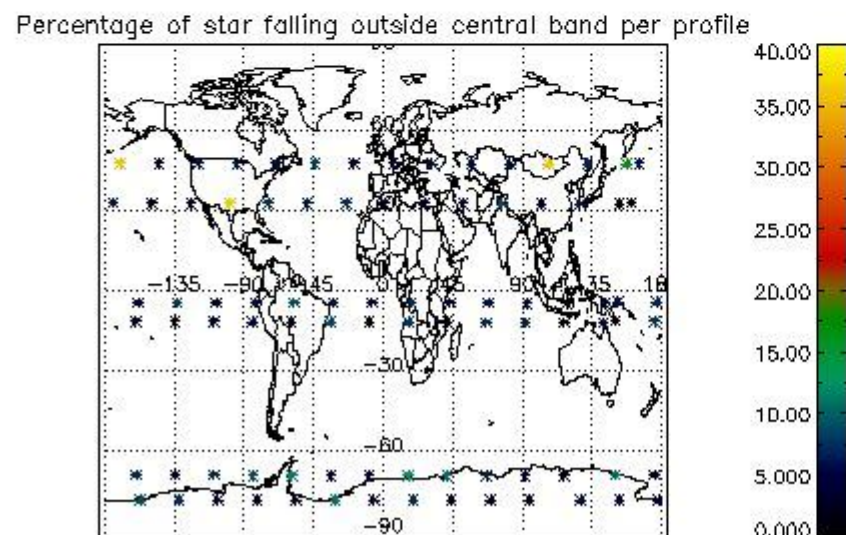
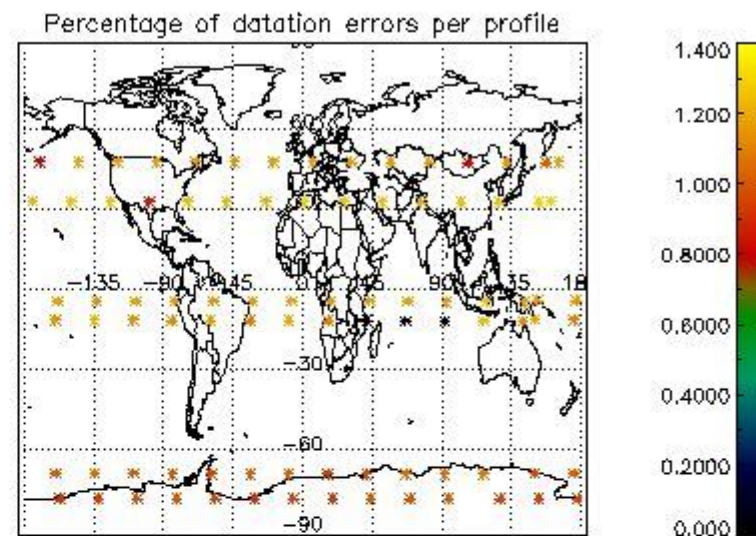
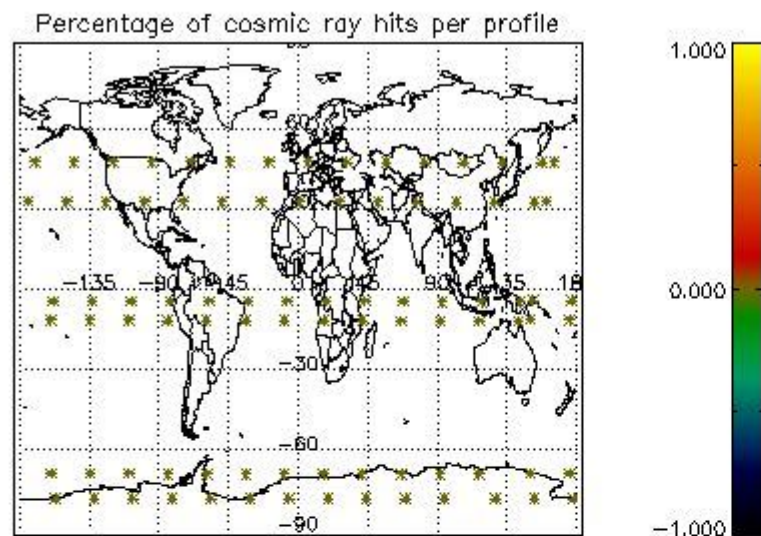
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

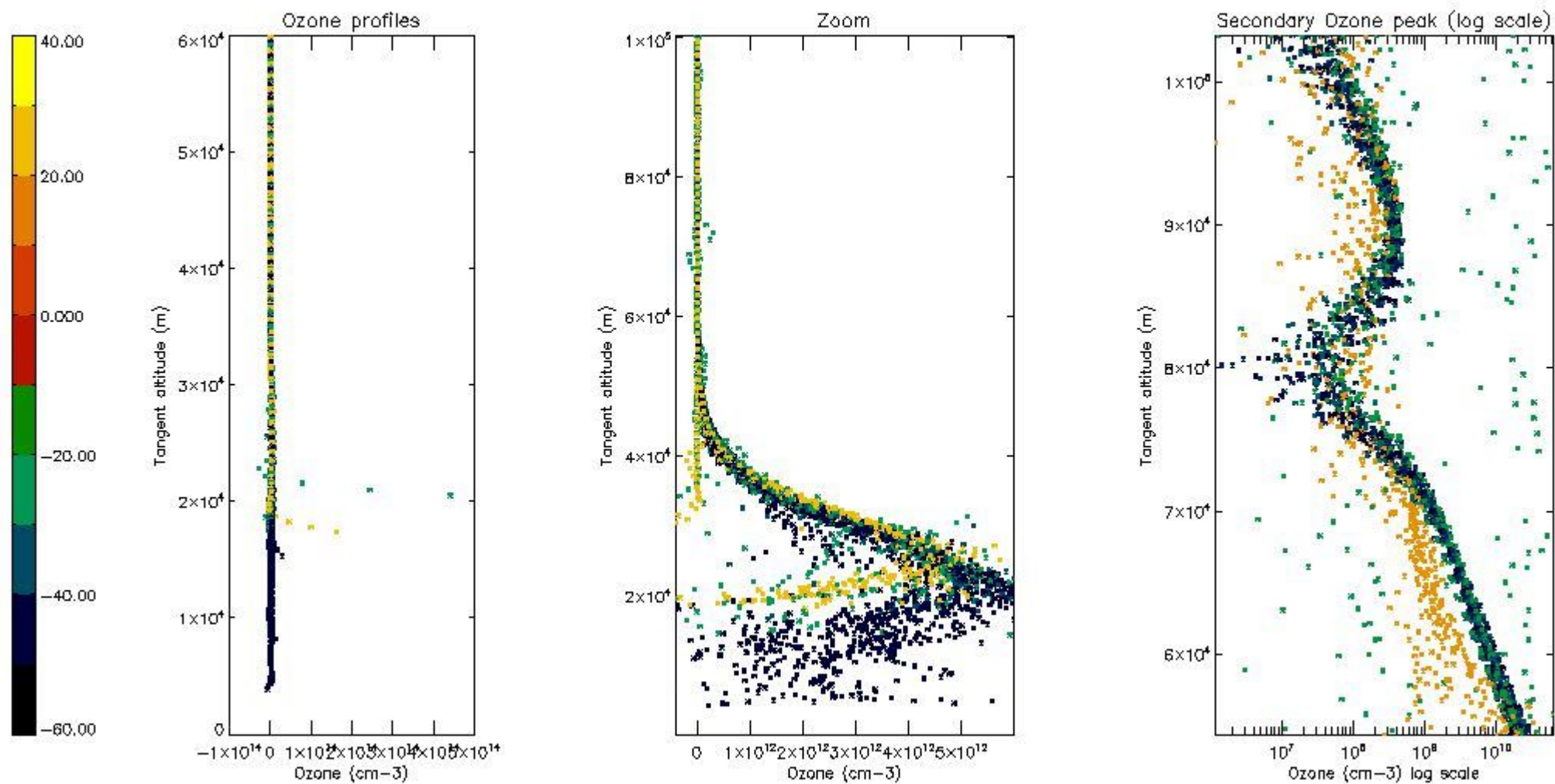
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	20

STD < 10	17
STD < 5	11

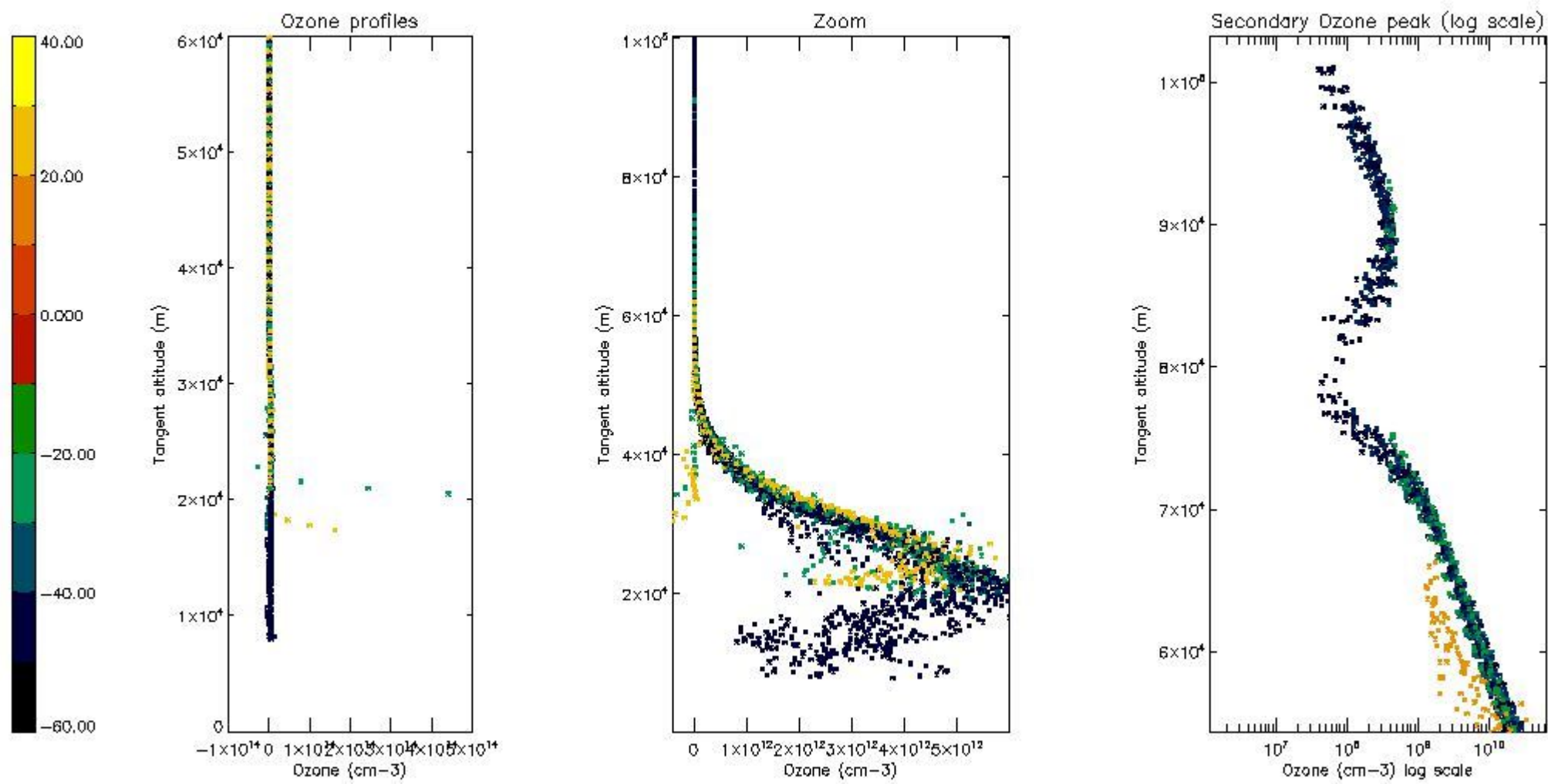
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



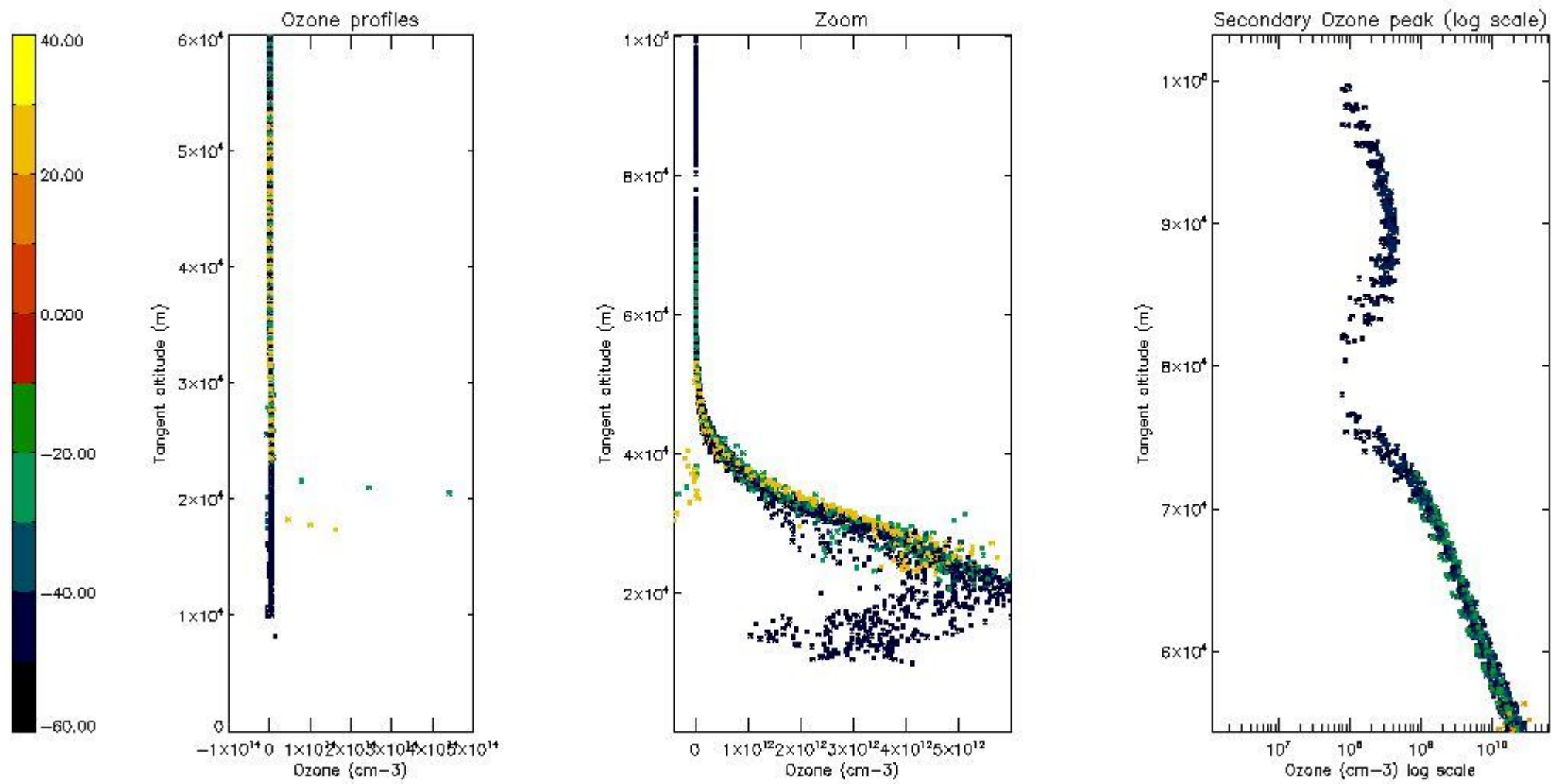
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



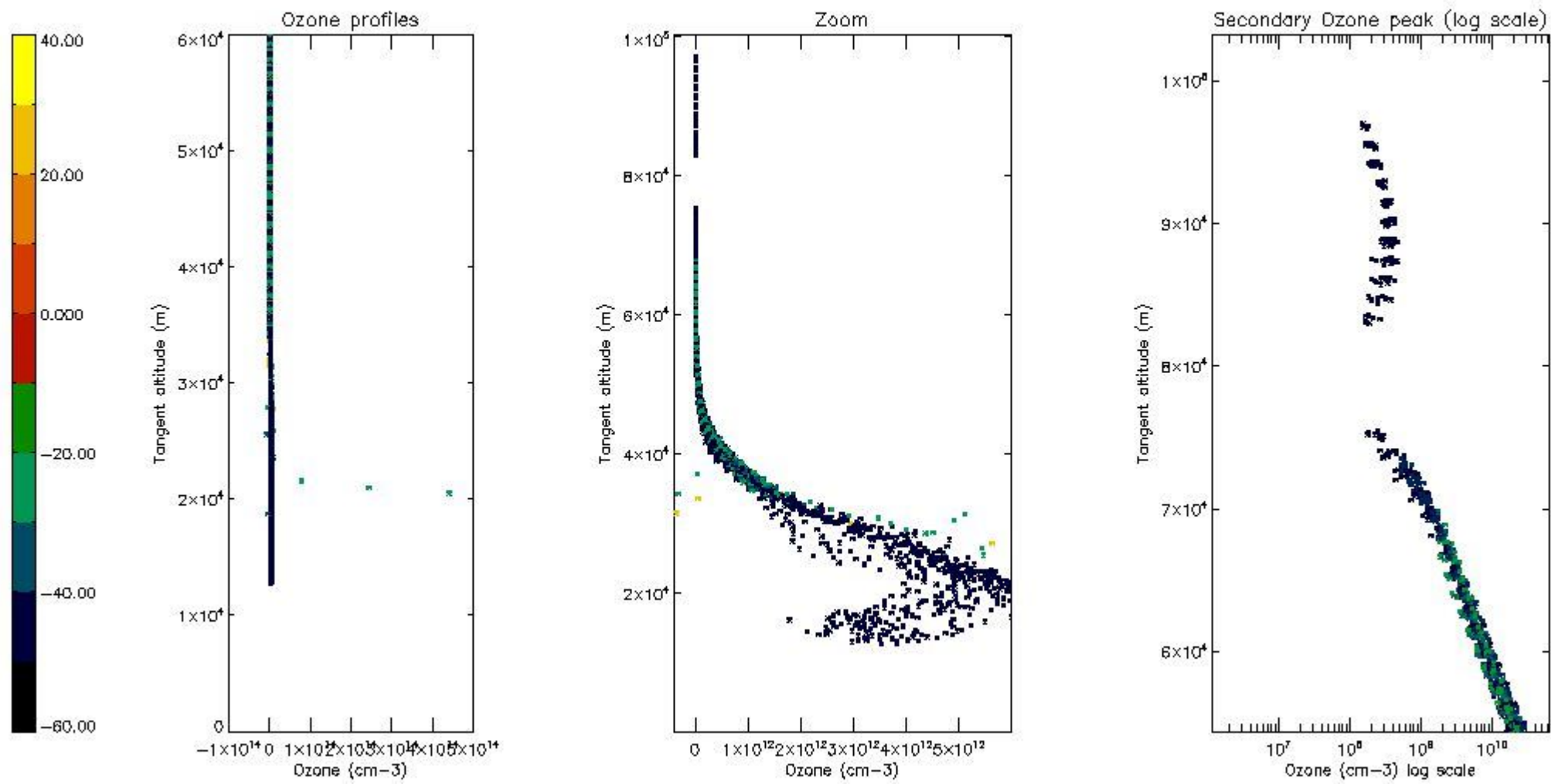
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



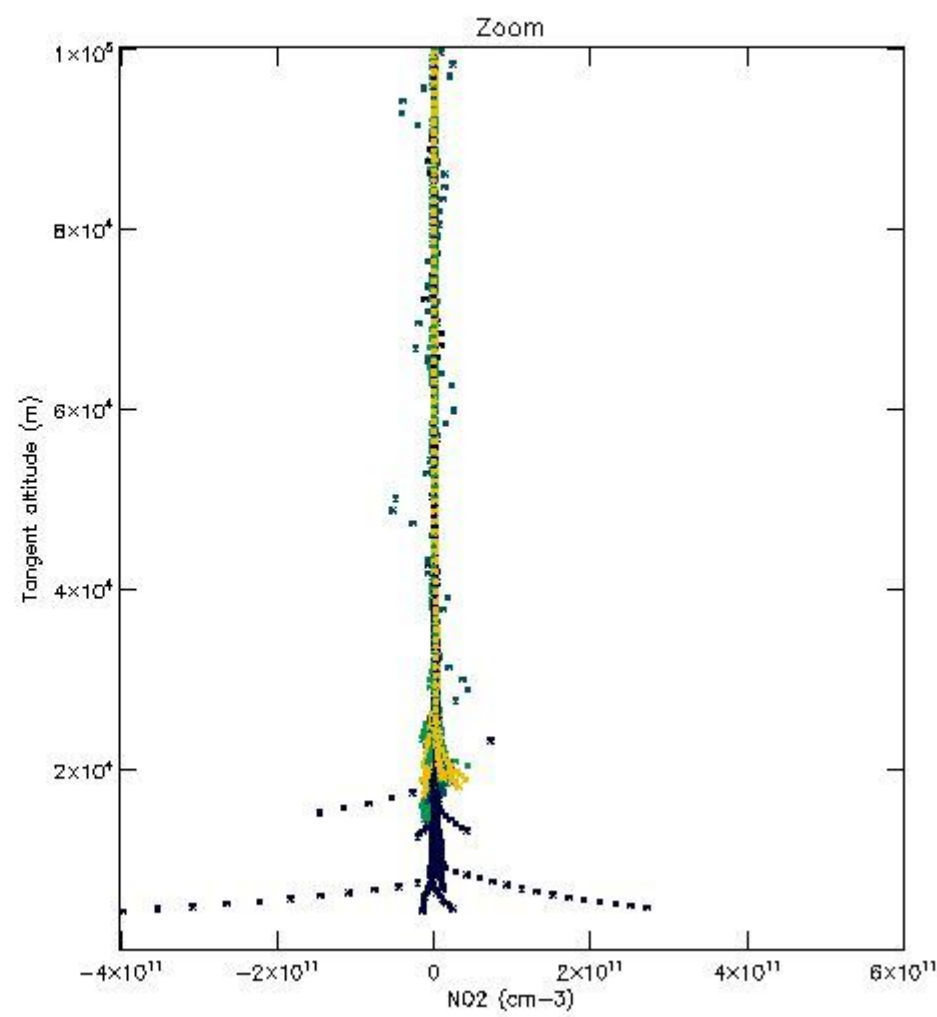
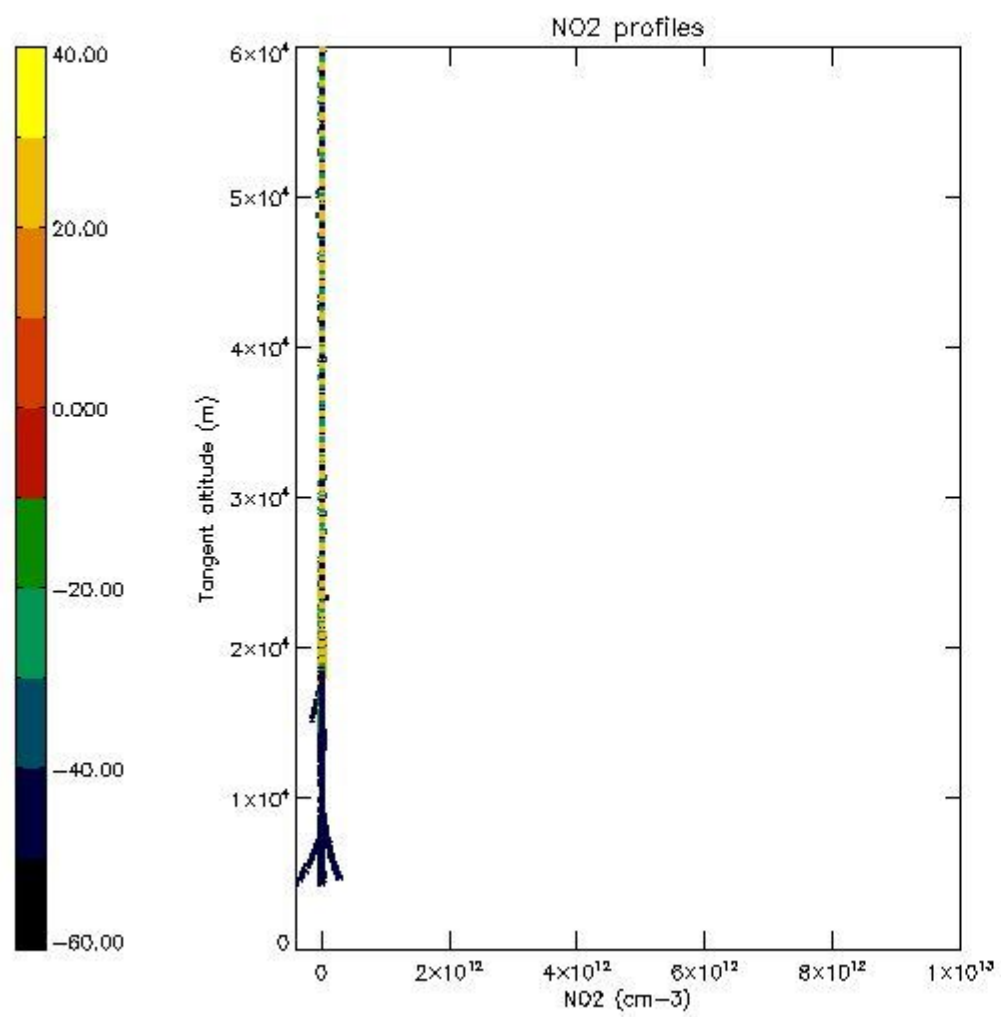
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



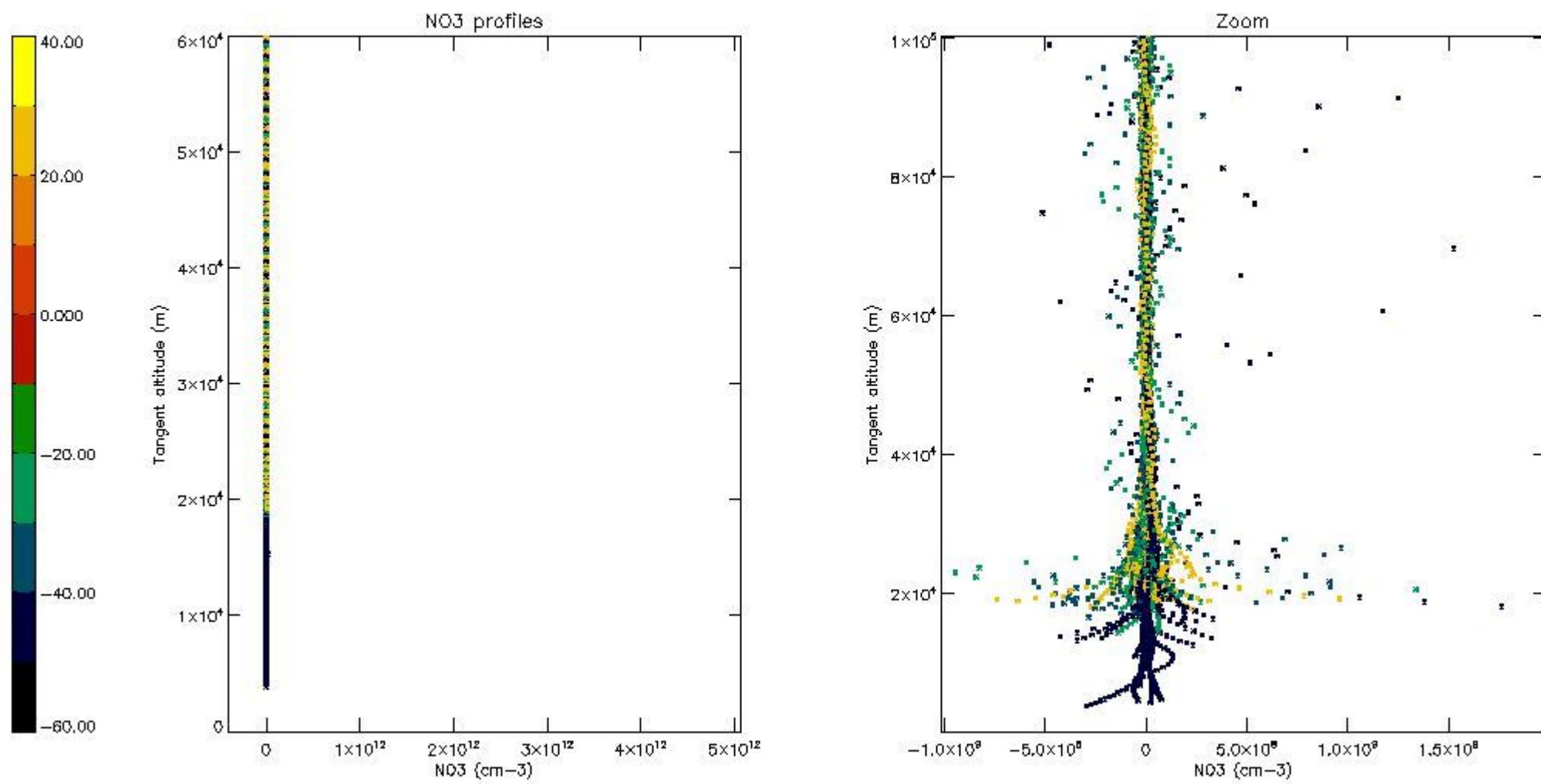
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



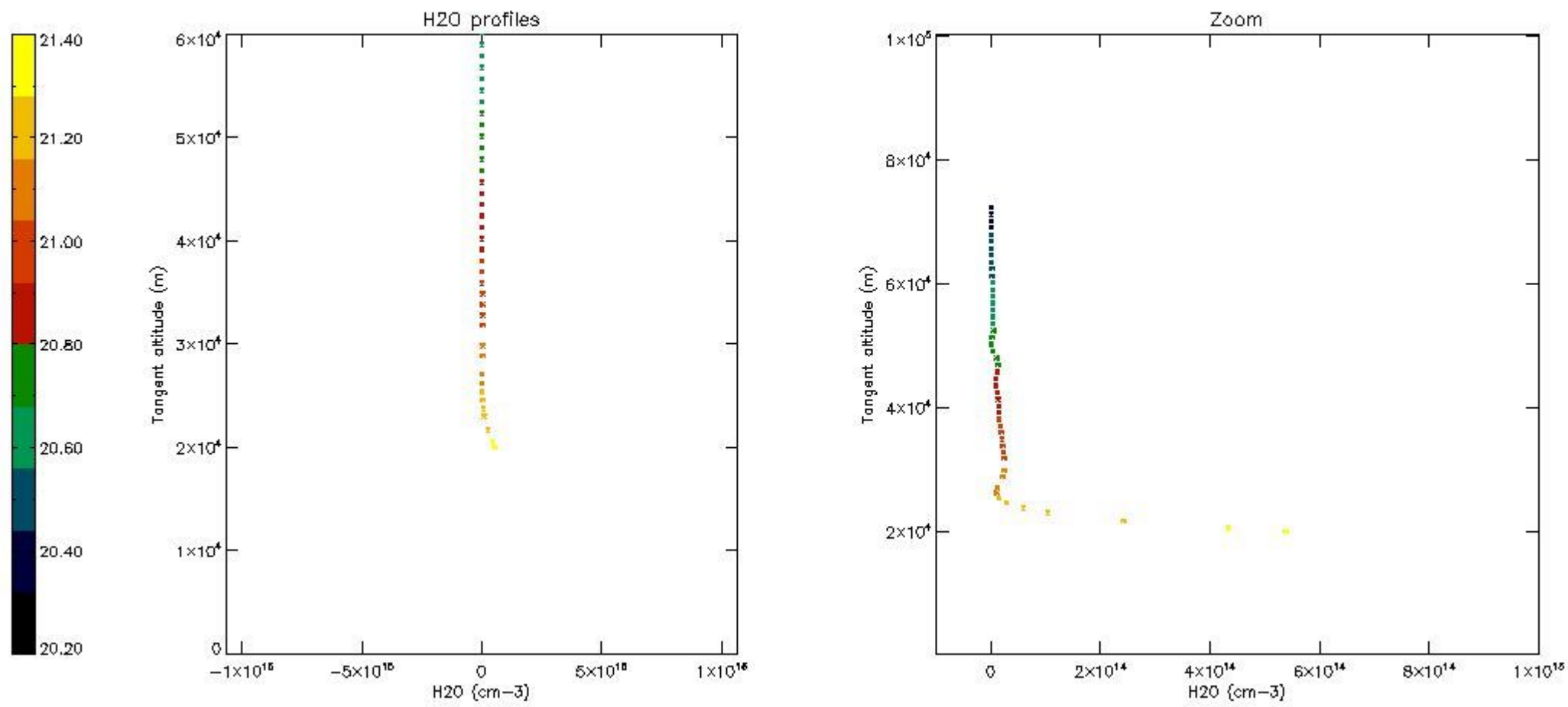
5.7 Plot NO3 profiles for all STD (dark without errors)

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	07-SEP-2009 00:08:19
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	07-SEP-2009 00:08:19
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	07-SEP-2009 00:08:19

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	26APR2013 12:32:38
Data source version	GOMOS/6.01
Start time of products	07-09-2009 (07SEP2009 00:00:00)
Stop time of products	08-09-2009 (08SEP2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	198
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

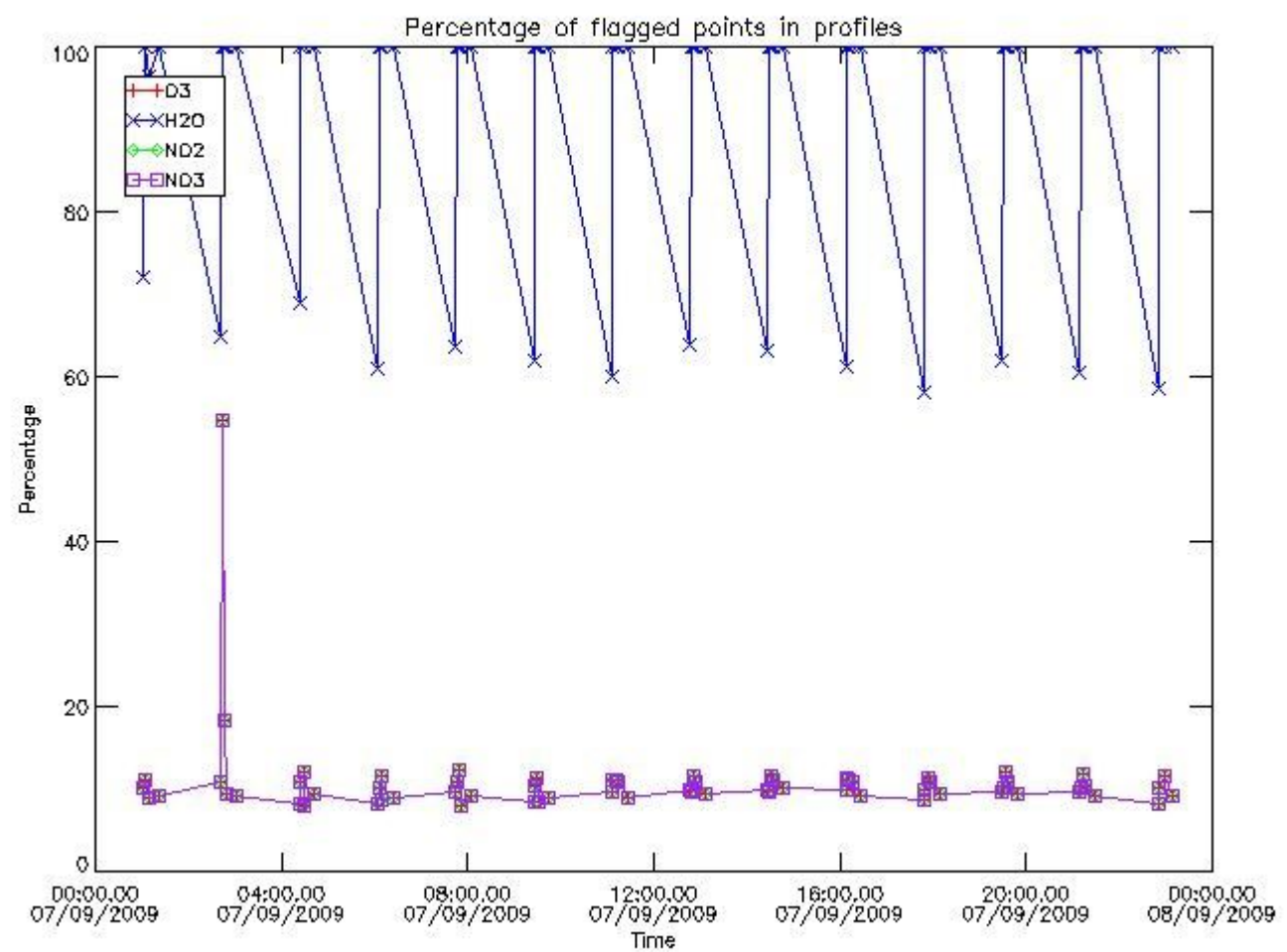
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090907_000819_000000492082_00188_39320_4222.N1	07-SEP-2009 00:08:19	Bright	49.000	90	54Alp Peg	2.4870	11000.	98	39320	No
2	GOM_NL__2PRFIN20090907_001232_000000392082_00188_39320_4223.N1	07-SEP-2009 00:12:32	Bright	38.500	164	44Eta Peg	2.9480	5400.0	77	39320	No
3	GOM_NL__2PRFIN20090907_002259_000000432082_00188_39320_4224.N1	07-SEP-2009 00:22:59	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	39320	No
4	GOM_NL__2PRFIN20090907_002500_000000452082_00188_39320_4225.N1	07-SEP-2009 00:25:00	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	39320	No
5	GOM_NL__2PRFIN20090907_004121_000000462082_00188_39320_4226.N1	07-SEP-2009 00:41:21	Bright	46.000	42	34Bet Aur	1.9000	10200.	92	39320	No
6	GOM_NL__2PRFIN20090907_004425_000000492082_00188_39320_4227.N1	07-SEP-2009 00:44:25	Bright	49.000	107	37The Aur	2.6490	11000.	98	39320	No
7	GOM_NL__2PRFIN20090907_005004_000000642082_00188_39320_4228.N1	07-SEP-2009 00:50:04	Twilight	64.000	151	13Mu Gem	2.8900	3000.0	128	39320	No
8	GOM_NL__2PRFIN20090907_005156_000000542082_00188_39320_4229.N1	07-SEP-2009 00:51:56	Twilight	54.000	44	24Gam Gem	1.9280	11000.	108	39320	No
9	GOM_NL__2PRFIN20090907_010200_000000512082_00188_39320_4230.N1	07-SEP-2009 01:02:00	Dark	50.500	1	9Alp CMa	-1.4400	11000.	101	39320	No
10	GOM_NL__2PRFIN20090907_010329_000000512082_00188_39320_4231.N1	07-SEP-2009 01:03:29	Dark	51.000	47	2Bet CMa	1.9760	28000.	102	39320	No
11	GOM_NL__2PRFIN20090907_010805_000000582082_00188_39320_4232.N1	07-SEP-2009 01:08:05	Dark	57.500	139	9Bet Lep	2.8330	5600.0	115	39320	No
12	GOM_NL__2PRFIN20090907_012152_000000552082_00189_39321_4236.N1	07-SEP-2009 01:21:52	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39321	No
13	GOM_NL__2PRFIN20090907_012852_000000462082_00189_39321_4237.N1	07-SEP-2009 01:28:52	Straylight	45.500	84	Alp Phe	2.3970	4500.0	91	39321	No
14	GOM_NL__2PRFIN20090907_014855_000000432082_00189_39321_4238.N1	07-SEP-2009 01:48:55	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	39321	No
15	GOM_NL__2PRFIN20090907_015308_000000402082_00189_39321_4239.N1	07-SEP-2009 01:53:08	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	39321	No
16	GOM_NL__2PRFIN20090907_020334_000000402082_00189_39321_4240.N1	07-SEP-2009 02:03:34	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	39321	No
17	GOM_NL__2PRFIN20090907_020535_000000412082_00189_39321_4241.N1	07-SEP-2009 02:05:35	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	39321	No
18	GOM_NL__2PRFIN20090907_022157_000000482082_00189_39321_4242.N1	07-SEP-2009 02:21:57	Bright	47.500	42	34Bet Aur	1.9000	10200.	95	39321	No
19	GOM_NL__2PRFIN20090907_022501_000000512082_00189_39321_4243.N1	07-SEP-2009 02:25:01	Bright	50.500	107	37The Aur	2.6490	11000.	101	39321	No
20	GOM_NL__2PRFIN20090907_023040_000000632082_00189_39321_4244.N1	07-SEP-2009 02:30:40	Twilight	63.000	151	13Mu Gem	2.8900	3000.0	126	39321	No
21	GOM_NL__2PRFIN20090907_023233_000000532082_00189_39321_4245.N1	07-SEP-2009 02:32:33	Twilight	52.500	44	24Gam Gem	1.9280	11000.	105	39321	No
22	GOM_NL__2PRFIN20090907_024237_000000562082_00189_39321_4246.N1	07-SEP-2009 02:42:37	Dark	56.000	1	9Alp CMa	-1.4400	11000.	112	39321	No
23	GOM_NL__2PRFIN20090907_024406_000000502082_00189_39321_4247.N1	07-SEP-2009 02:44:06	Dark	50.000	47	2Bet CMa	1.9760	28000.	100	39321	No
24	GOM_NL__2PRFIN20090907_024710_000000452082_00189_39321_4248.N1	07-SEP-2009 02:47:10	Dark	44.500	177	1Zet CMa	3.0220	26000.	89	39321	No
25	GOM_NL__2PRFIN20090907_024842_000000602082_00189_39321_4249.N1	07-SEP-2009 02:48:42	Dark	59.500	139	9Bet Lep	2.8330	5600.0	119	39321	No
26	GOM_NL__2PRFIN20090907_030229_000000562082_00190_39322_4252.N1	07-SEP-2009 03:02:29	Dark	55.500	157	The1Eri	2.9060	9300.0	111	39322	No
27	GOM_NL__2PRFIN20090907_030928_000000482082_00190_39322_4253.N1	07-SEP-2009 03:09:28	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	39322	No
28	GOM_NL__2PRFIN20090907_032930_000000632082_00190_39322_4254.N1	07-SEP-2009 03:29:30	Bright	63.000	90	54Alp Peg	2.4870	11000.	126	39322	No
29	GOM_NL__2PRFIN20090907_033343_000000402082_00190_39322_4255.N1	07-SEP-2009 03:33:43	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	39322	No
30	GOM_NL__2PRFIN20090907_034409_000000432082_00190_39322_4256.N1	07-SEP-2009 03:44:09	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	39322	No
31	GOM_NL__2PRFIN20090907_034610_000000442082_00190_39322_4257.N1	07-SEP-2009 03:46:10	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	39322	No
32	GOM_NL__2PRFIN20090907_040233_000000482082_00190_39322_4258.N1	07-SEP-2009 04:02:33	Bright	47.500	42	34Bet Aur	1.9000	10200.	95	39322	No
33	GOM_NL__2PRFIN20090907_040537_000000502082_00190_39322_4259.N1	07-SEP-2009 04:05:37	Bright	49.500	107	37The Aur	2.6490	11000.	99	39322	No
34	GOM_NL__2PRFIN20090907_041117_000000632082_00190_39322_4260.N1	07-SEP-2009 04:11:17	Twilight	62.500	151	13Mu Gem	2.8900	3000.0	125	39322	No
35	GOM_NL__2PRFIN20090907_041309_000000502082_00190_39322_4261.N1	07-SEP-2009 04:13:09	Twilight	50.000	44	24Gam Gem	1.9280	11000.	100	39322	No
36	GOM_NL__2PRFIN20090907_042314_000000632082_00190_39322_4262.N1	07-SEP-2009 04:23:14	Dark	63.000	1	9Alp CMa	-1.4400	11000.	126	39322	No
37	GOM_NL__2PRFIN20090907_042443_000000522082_00190_39322_4263.N1	07-SEP-2009 04:24:43	Dark	52.000	47	2Bet CMa	1.9760	28000.	104	39322	No
38	GOM_NL__2PRFIN20090907_042747_000000422082_00190_39322_4264.N1	07-SEP-2009 04:27:47	Dark	42.000	177	1Zet CMa	3.0220	26000.	84	39322	No
39	GOM_NL__2PRFIN20090907_042920_000000652082_00190_39322_4265.N1	07-SEP-2009 04:29:20	Dark	64.500	139	9Bet Lep	2.8330	5600.0	129	39322	No
40	GOM_NL__2PRFIN20090907_044306_000000552082_00191_39323_4266.N1	07-SEP-2009 04:43:06	Dark	54.500	157	The1Eri	2.9060	9300.0	109	39323	No
41	GOM_NL__2PRFIN20090907_045004_000000462082_00191_39323_4267.N1	07-SEP-2009 04:50:04	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	39323	No
42	GOM_NL__2PRFIN20090907_051006_000000432082_00191_39323_4268.N1	07-SEP-2009 05:10:06	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	39323	No

161	GOM_NL__2PRFIN20090907_191837_000000572082_00199_39331_4423.N1	07-SEP-2009 19:18:37	Twilight	56.500	44	24Gam Gem	1.9280	11000.	113	39331	No
162	GOM_NL__2PRFIN20090907_192844_000000532082_00199_39331_4424.N1	07-SEP-2009 19:28:44	Dark	53.000	1	9Alp CMa	-1.4400	11000.	106	39331	No
163	GOM_NL__2PRFIN20090907_193015_000000512082_00199_39331_4425.N1	07-SEP-2009 19:30:15	Dark	50.500	47	2Bet CMa	1.9760	28000.	101	39331	No
164	GOM_NL__2PRFIN20090907_193318_000000422082_00199_39331_4426.N1	07-SEP-2009 19:33:18	Dark	42.000	177	1Zet CMa	3.0220	26000.	84	39331	No
165	GOM_NL__2PRFIN20090907_193629_000000472082_00199_39331_4427.N1	07-SEP-2009 19:36:29	Dark	46.500	108	Alp Col	2.6520	15200.	93	39331	No
166	GOM_NL__2PRFIN20090907_194840_000000542082_00200_39332_4432.N1	07-SEP-2009 19:48:40	Dark	54.000	157	The1Eri	2.9060	9300.0	108	39332	No
167	GOM_NL__2PRFIN20090907_195532_000000472082_00200_39332_4433.N1	07-SEP-2009 19:55:32	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	39332	No
168	GOM_NL__2PRFIN20090907_201526_000000422082_00200_39332_4434.N1	07-SEP-2009 20:15:26	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	39332	No
169	GOM_NL__2PRFIN20090907_201939_000000402082_00200_39332_4435.N1	07-SEP-2009 20:19:39	Bright	39.500	164	44Eta Peg	2.9480	5400.0	79	39332	No
170	GOM_NL__2PRFIN20090907_203003_000000432082_00200_39332_4436.N1	07-SEP-2009 20:30:03	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	39332	No
171	GOM_NL__2PRFIN20090907_203203_000000442082_00200_39332_4437.N1	07-SEP-2009 20:32:03	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	39332	No
172	GOM_NL__2PRFIN20090907_204830_000000492082_00200_39332_4438.N1	07-SEP-2009 20:48:30	Bright	49.000	42	34Bet Aur	1.9000	10200.	98	39332	No
173	GOM_NL__2PRFIN20090907_205136_000000532082_00200_39332_4439.N1	07-SEP-2009 20:51:36	Bright	53.000	107	37The Aur	2.6490	11000.	106	39332	No
174	GOM_NL__2PRFIN20090907_205720_000000632082_00200_39332_4440.N1	07-SEP-2009 20:57:20	Twilight	62.500	151	13Mu Gem	2.8900	3000.0	125	39332	No
175	GOM_NL__2PRFIN20090907_205913_000000542082_00200_39332_4441.N1	07-SEP-2009 20:59:13	Twilight	54.000	44	24Gam Gem	1.9280	11000.	108	39332	No
176	GOM_NL__2PRFIN20090907_210921_000000542082_00200_39332_4442.N1	07-SEP-2009 21:09:21	Dark	53.500	1	9Alp CMa	-1.4400	11000.	107	39332	No
177	GOM_NL__2PRFIN20090907_211052_000000512082_00200_39332_4443.N1	07-SEP-2009 21:10:52	Dark	50.500	47	2Bet CMa	1.9760	28000.	101	39332	No
178	GOM_NL__2PRFIN20090907_211355_000000442082_00200_39332_4444.N1	07-SEP-2009 21:13:55	Dark	43.500	177	1Zet CMa	3.0220	26000.	87	39332	No
179	GOM_NL__2PRFIN20090907_211706_000000492082_00200_39332_4445.N1	07-SEP-2009 21:17:06	Dark	49.000	108	Alp Col	2.6520	15200.	98	39332	No
180	GOM_NL__2PRFIN20090907_212916_000000562082_00201_39333_4450.N1	07-SEP-2009 21:29:16	Dark	55.500	157	The1Eri	2.9060	9300.0	111	39333	No
181	GOM_NL__2PRFIN20090907_213609_000000452082_00201_39333_4451.N1	07-SEP-2009 21:36:09	Straylight	45.000	84	Alp Phe	2.3970	4500.0	90	39333	No
182	GOM_NL__2PRFIN20090907_215601_000000632082_00201_39333_4452.N1	07-SEP-2009 21:56:01	Bright	63.000	90	54Alp Peg	2.4870	11000.	126	39333	No
183	GOM_NL__2PRFIN20090907_220015_000000412082_00201_39333_4453.N1	07-SEP-2009 22:00:15	Bright	40.500	164	44Eta Peg	2.9480	5400.0	81	39333	No
184	GOM_NL__2PRFIN20090907_221038_000000442082_00201_39333_4454.N1	07-SEP-2009 22:10:38	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	39333	No
185	GOM_NL__2PRFIN20090907_221238_000000462082_00201_39333_4455.N1	07-SEP-2009 22:12:38	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	39333	No
186	GOM_NL__2PRFIN20090907_222906_000000522082_00201_39333_4456.N1	07-SEP-2009 22:29:06	Bright	52.000	42	34Bet Aur	1.9000	10200.	104	39333	No
187	GOM_NL__2PRFIN20090907_223212_000000532082_00201_39333_4457.N1	07-SEP-2009 22:32:12	Bright	52.500	107	37The Aur	2.6490	11000.	105	39333	No
188	GOM_NL__2PRFIN20090907_223756_000000732082_00201_39333_4458.N1	07-SEP-2009 22:37:56	Twilight	72.500	151	13Mu Gem	2.8900	3000.0	145	39333	No
189	GOM_NL__2PRFIN20090907_223950_000000562082_00201_39333_4459.N1	07-SEP-2009 22:39:50	Twilight	55.500	44	24Gam Gem	1.9280	11000.	111	39333	No
190	GOM_NL__2PRFIN20090907_224957_000000632082_00201_39333_4460.N1	07-SEP-2009 22:49:57	Dark	63.000	1	9Alp CMa	-1.4400	11000.	126	39333	No
191	GOM_NL__2PRFIN20090907_225129_000000512082_00201_39333_4461.N1	07-SEP-2009 22:51:29	Dark	50.500	47	2Bet CMa	1.9760	28000.	101	39333	No
192	GOM_NL__2PRFIN20090907_225743_000000482082_00201_39333_4462.N1	07-SEP-2009 22:57:43	Dark	48.000	108	Alp Col	2.6520	15200.	96	39333	No
193	GOM_NL__2PRFIN20090907_230954_000000552082_00202_39334_4466.N1	07-SEP-2009 23:09:54	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39334	No
194	GOM_NL__2PRFIN20090907_231645_000000472082_00202_39334_4467.N1	07-SEP-2009 23:16:45	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	39334	No
195	GOM_NL__2PRFIN20090907_233637_000000432082_00202_39334_4468.N1	07-SEP-2009 23:36:37	Bright	42.500	90	54Alp Peg	2.4870	11000.	85	39334	No
196	GOM_NL__2PRFIN20090907_234050_000000392082_00202_39334_4469.N1	07-SEP-2009 23:40:50	Bright	38.500	164	44Eta Peg	2.9480	5400.0	77	39334	No
197	GOM_NL__2PRFIN20090907_235114_000000432082_00202_39334_4470.N1	07-SEP-2009 23:51:14	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	39334	No
198	GOM_NL__2PRFIN20090907_235313_000000422082_00202_39334_4471.N1	07-SEP-2009 23:53:13	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	39334	No

3. Quality information per product

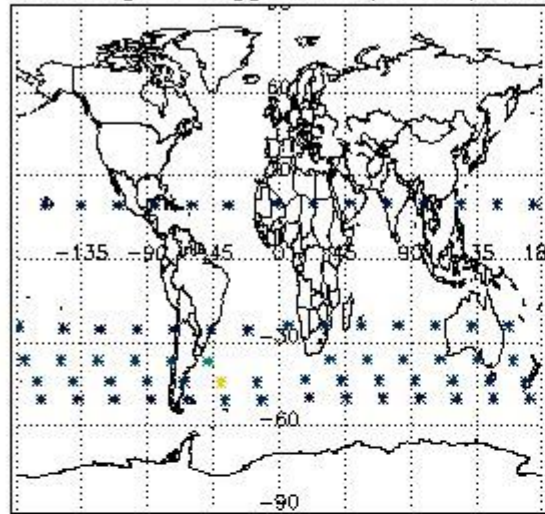
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

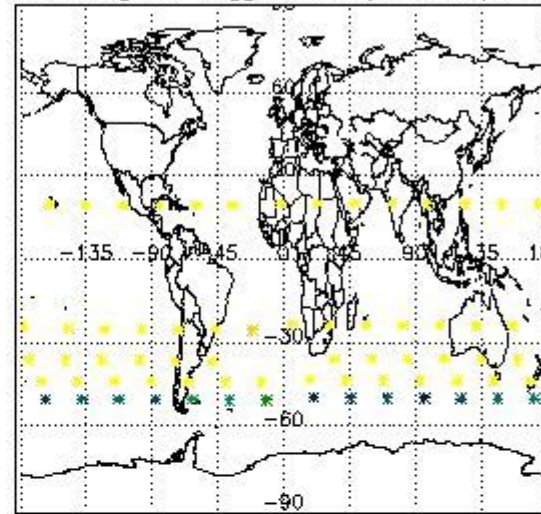


3.2 Plot quality information per product (world map)

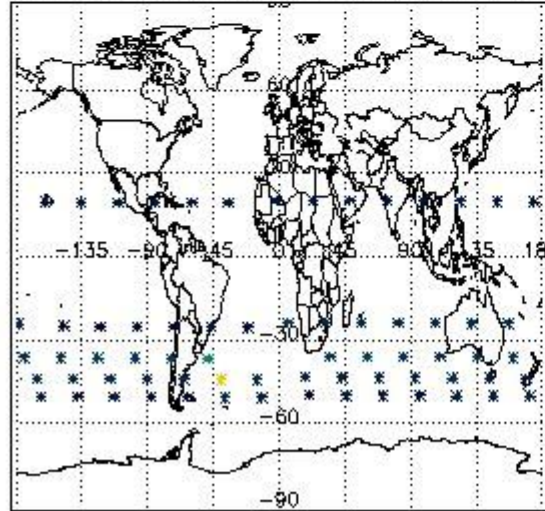
Percentage of flagged data per O3 profile



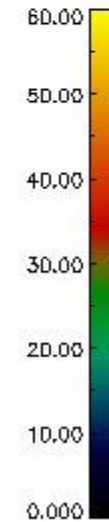
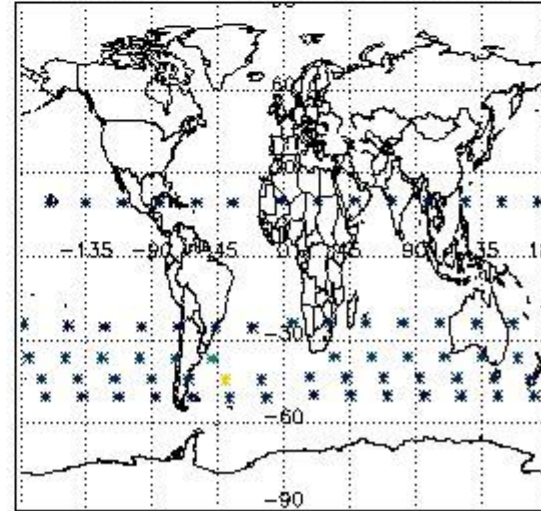
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

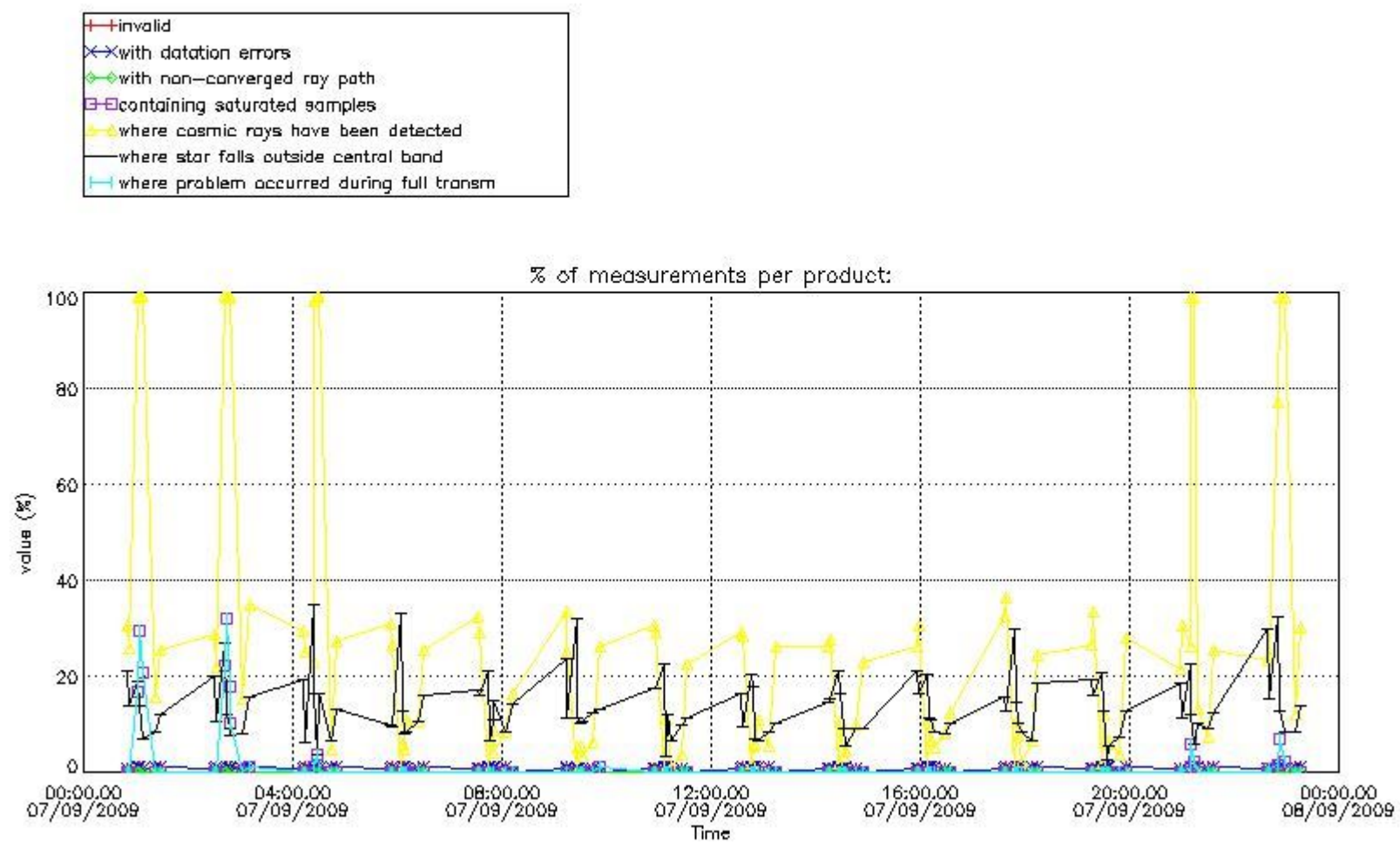


4. Level 1 quality information per product

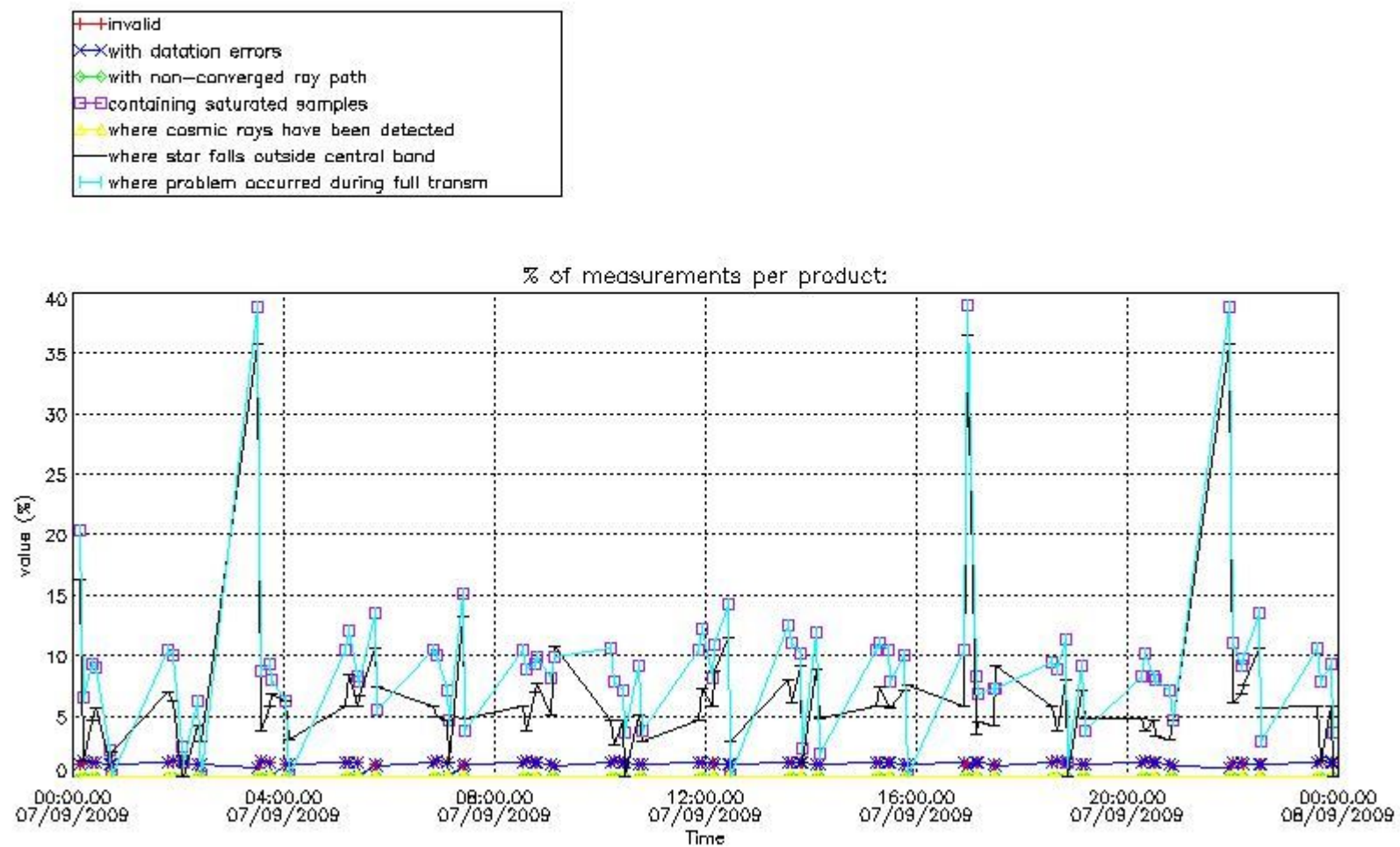
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



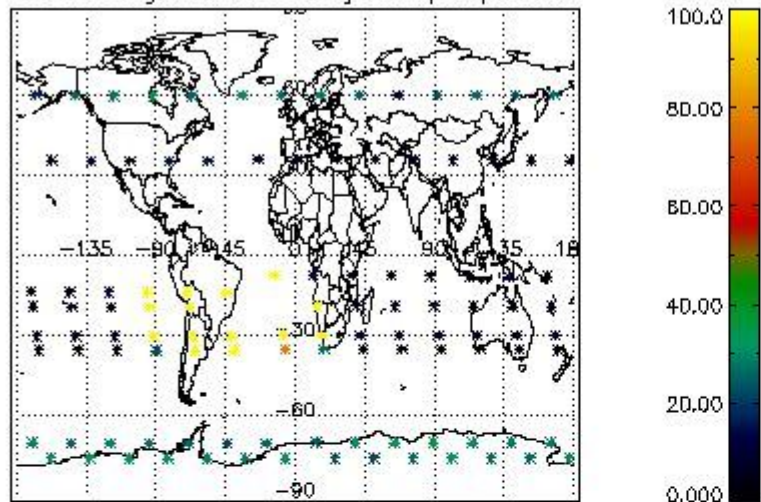
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



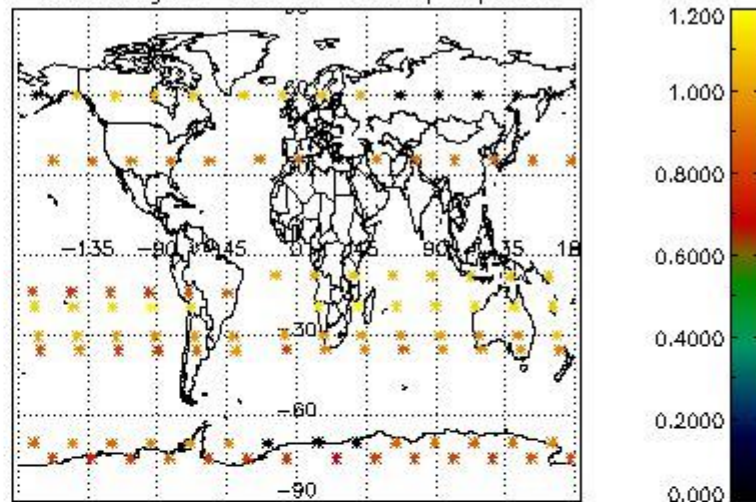
4.2 Plot quality information per product coming from level 1b processing (world map)

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

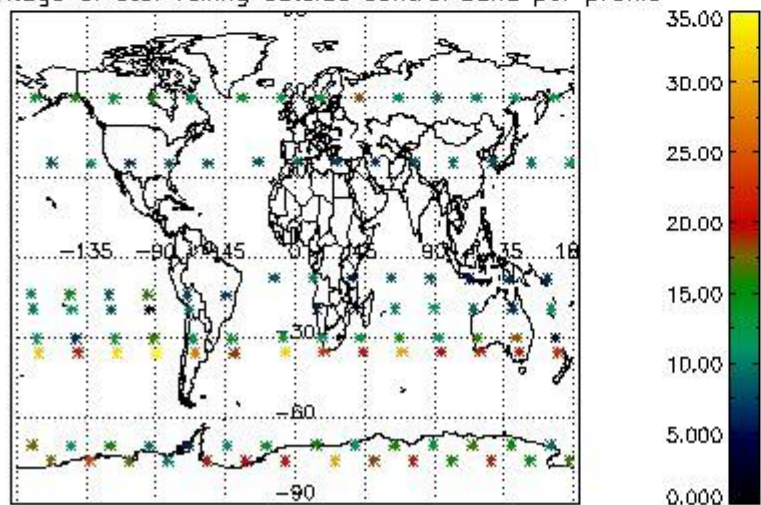
Percentage of cosmic ray hits per profile



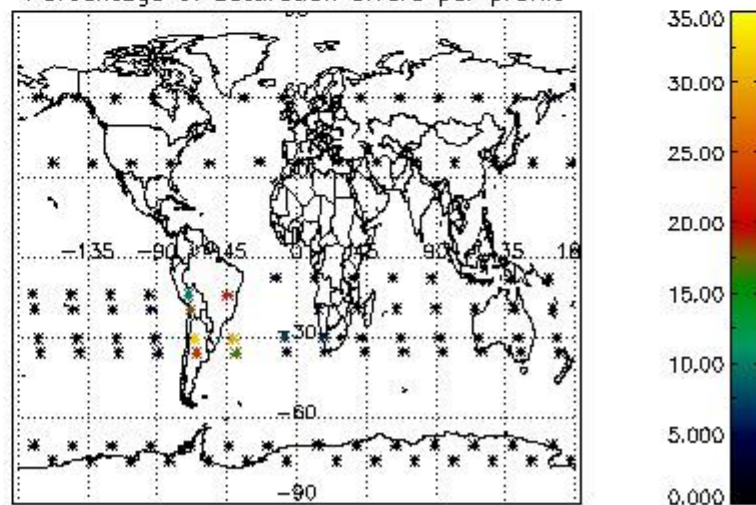
Percentage of datation errors per profile



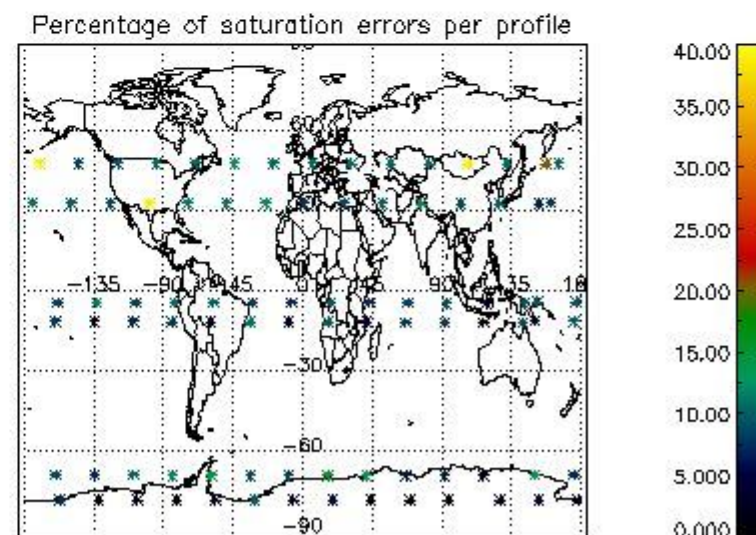
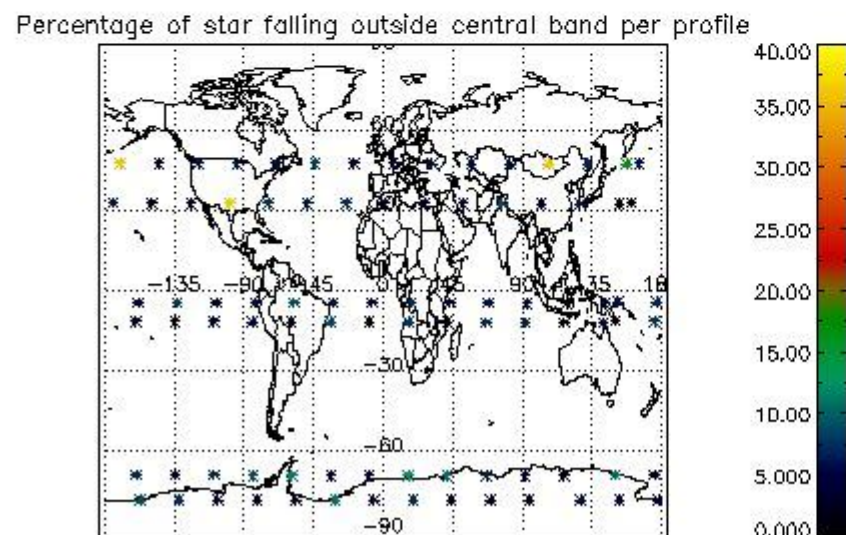
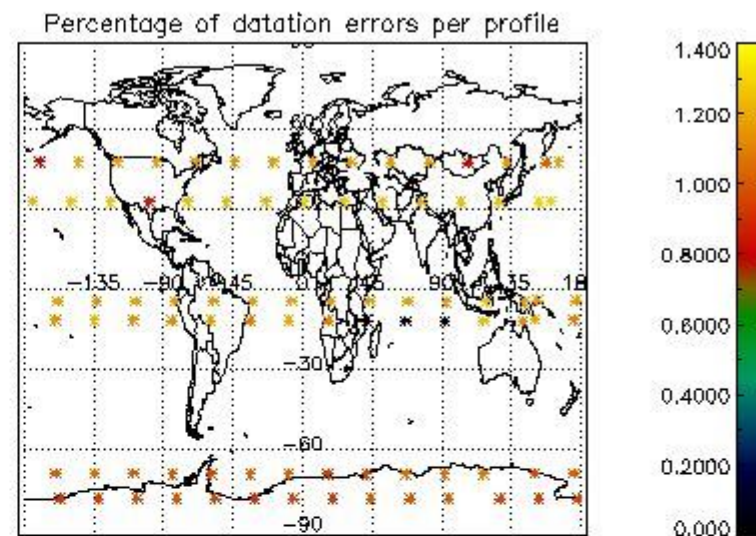
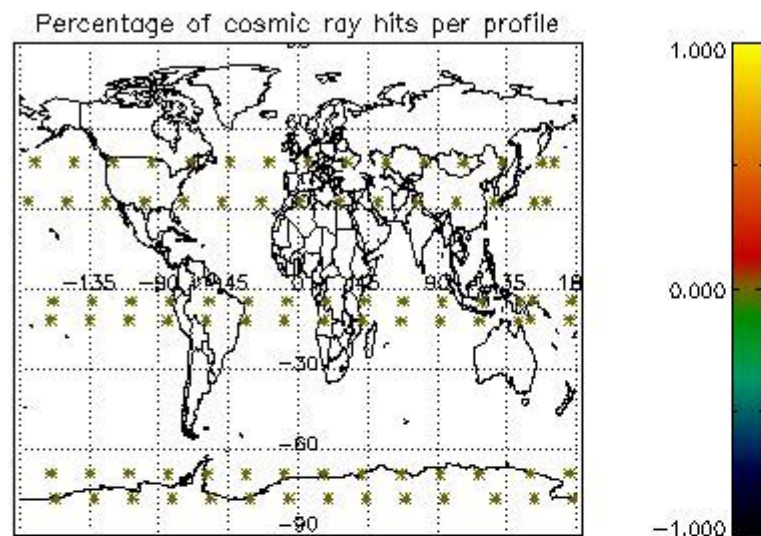
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

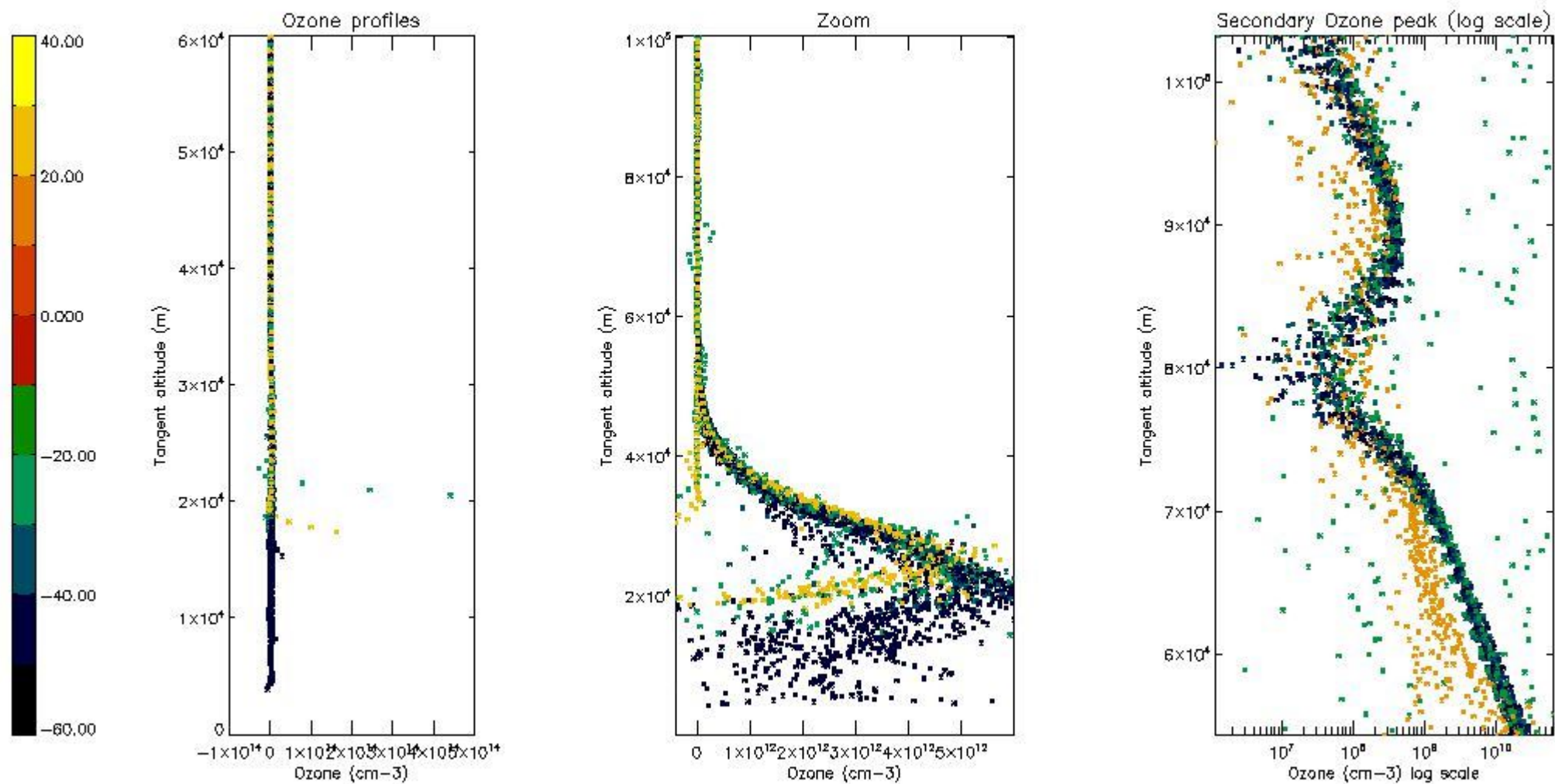
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	20

STD < 10	17
STD < 5	11

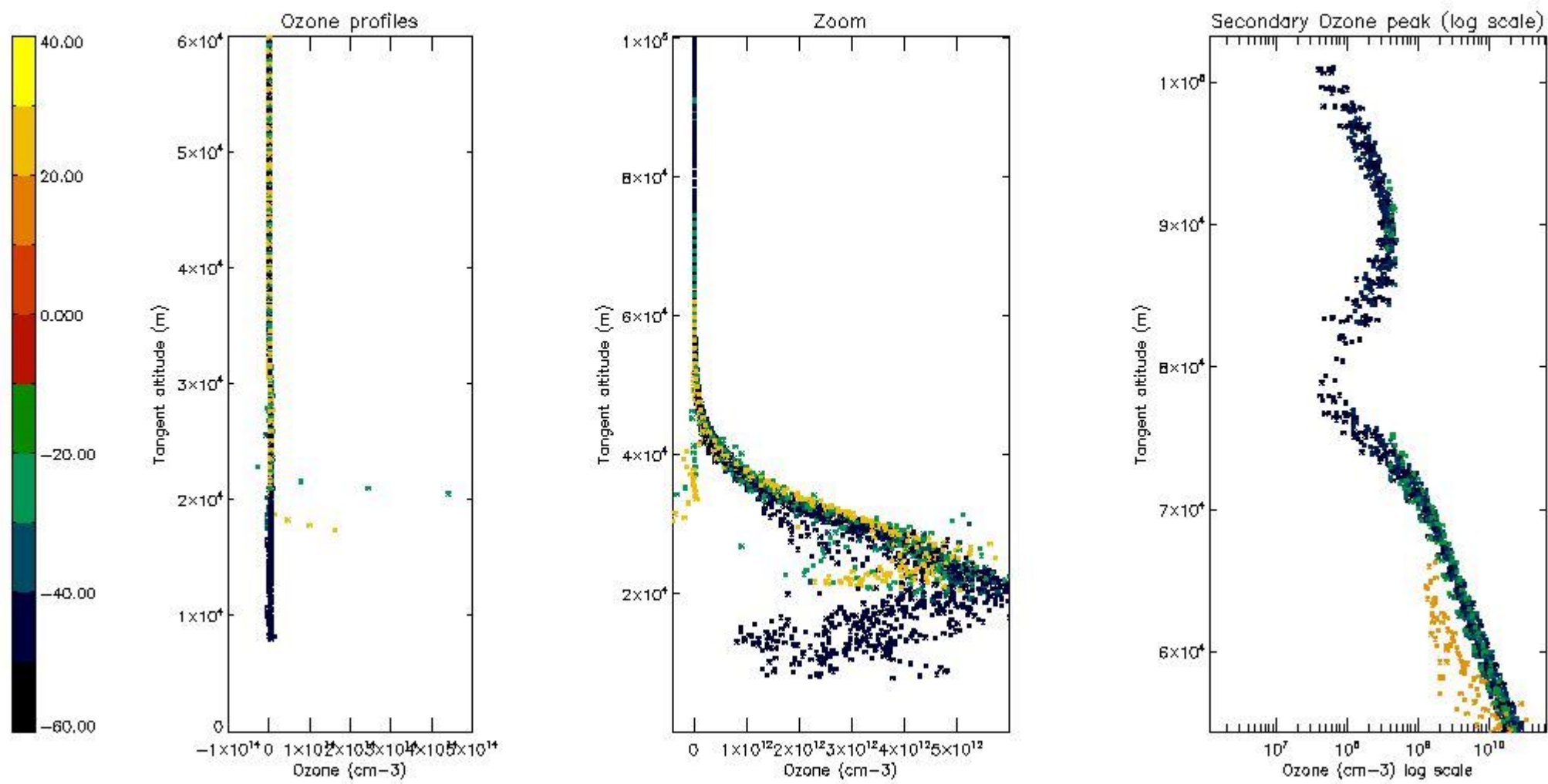
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



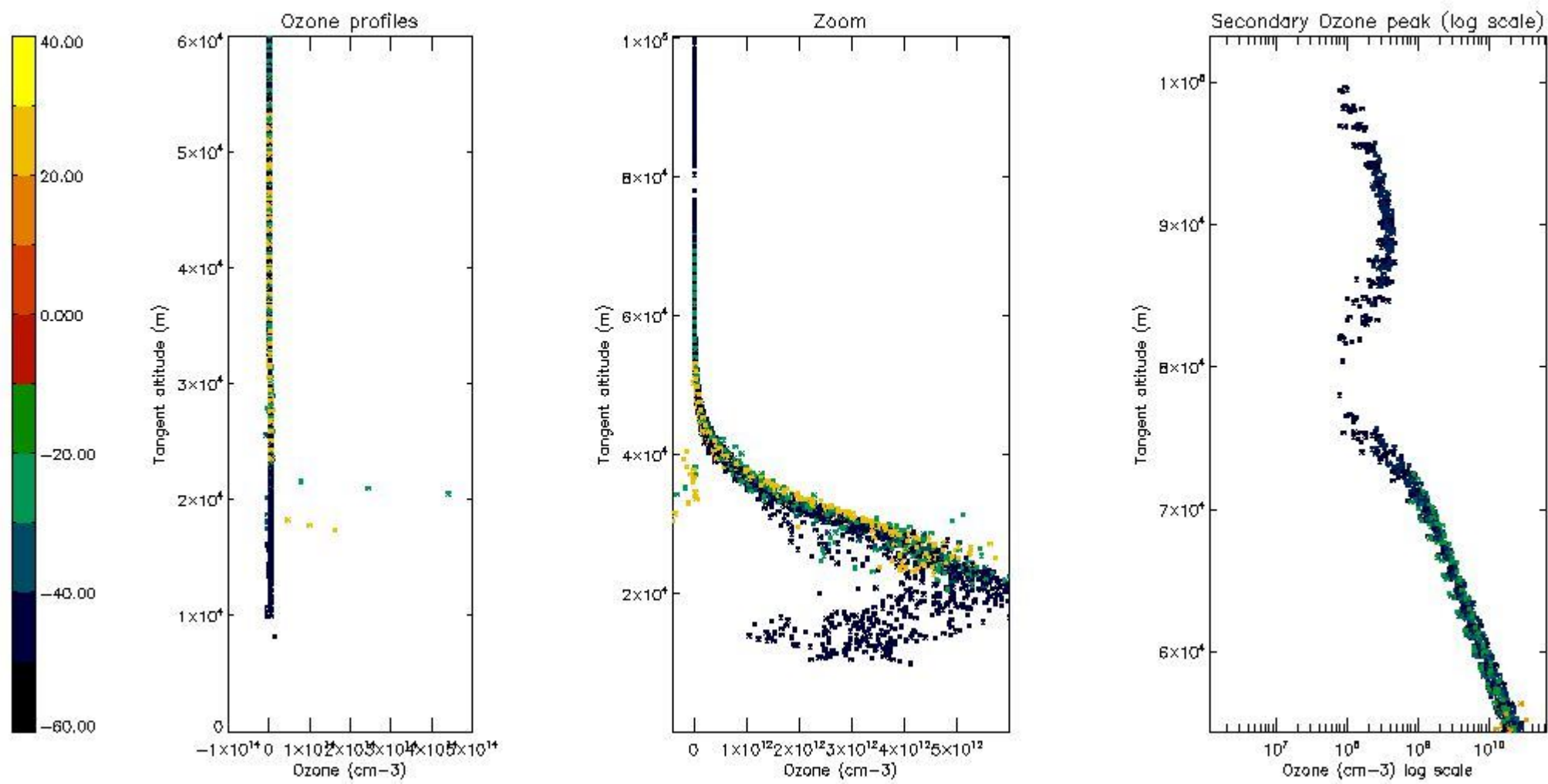
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



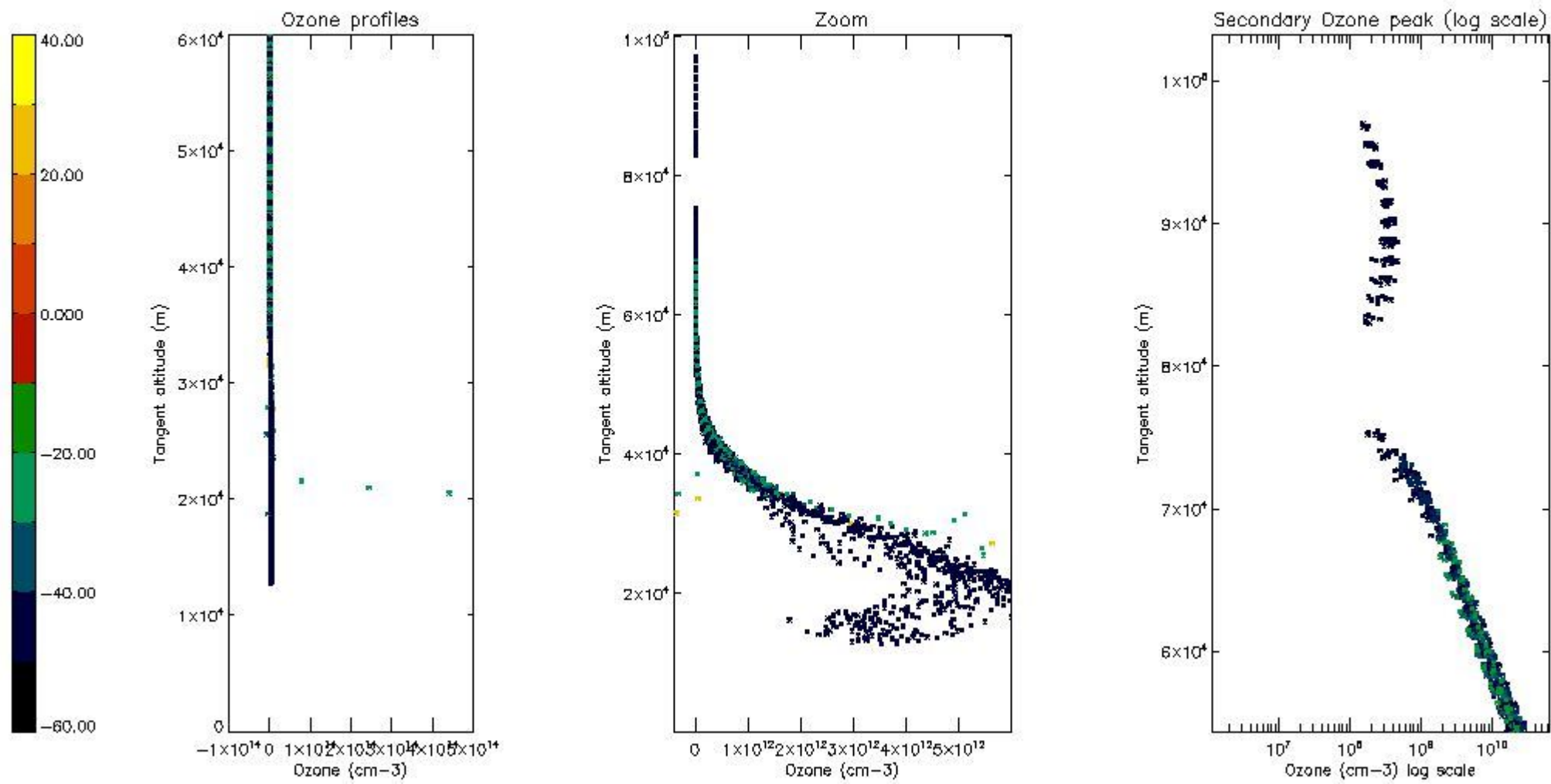
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



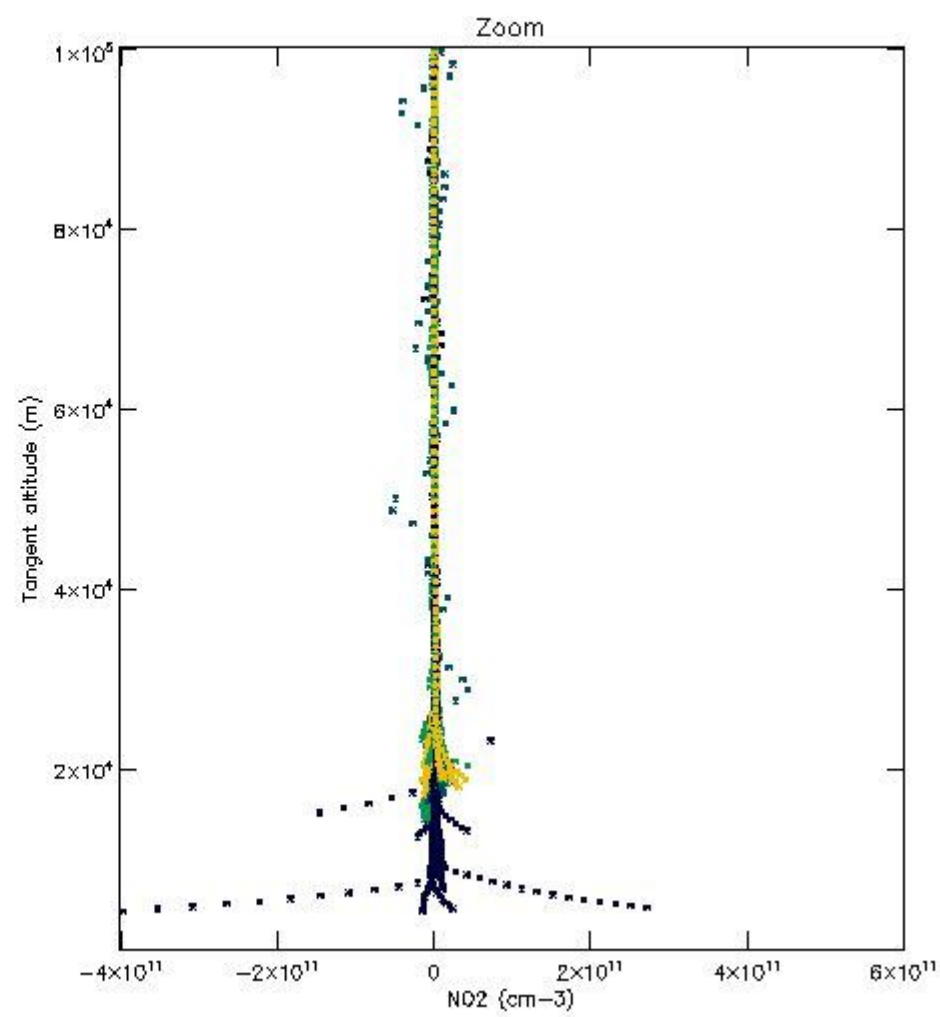
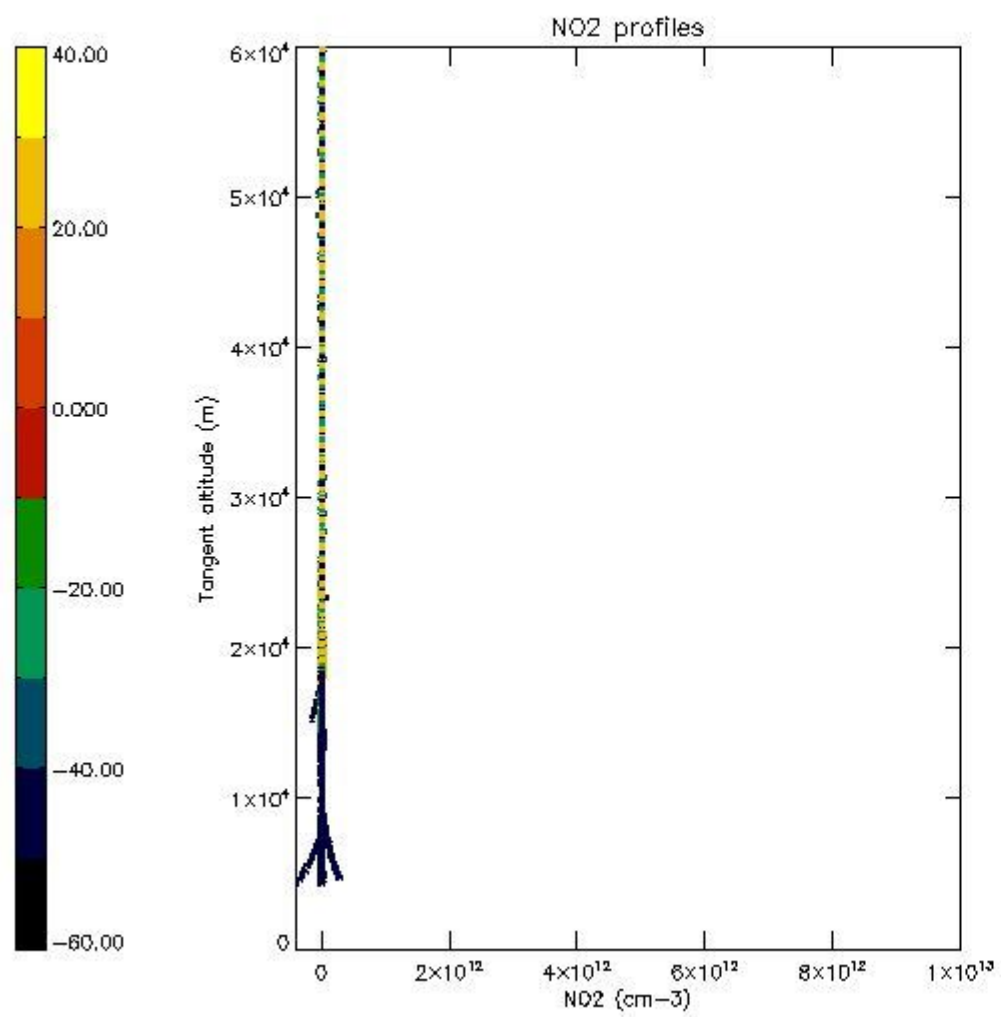
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



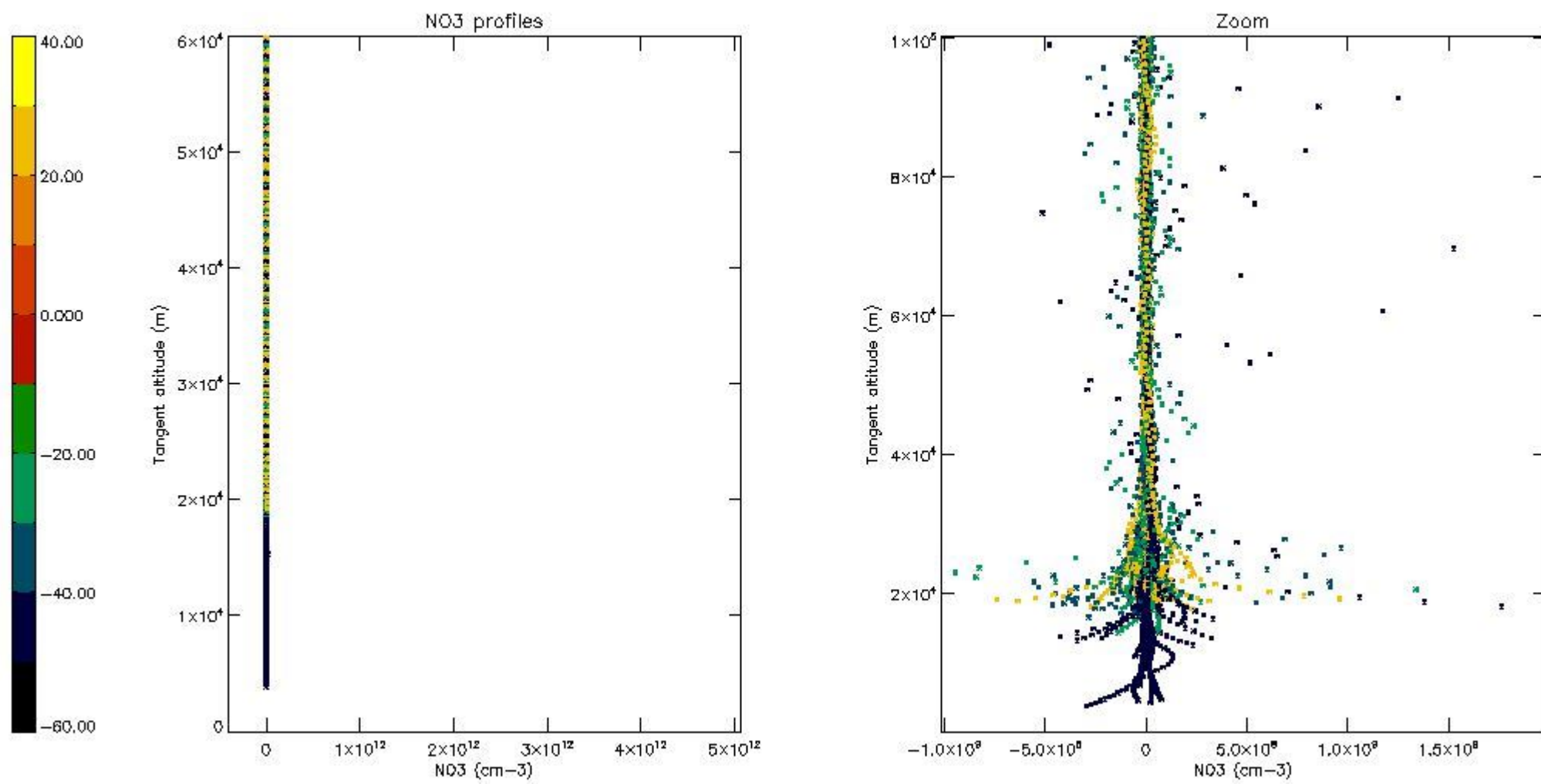
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



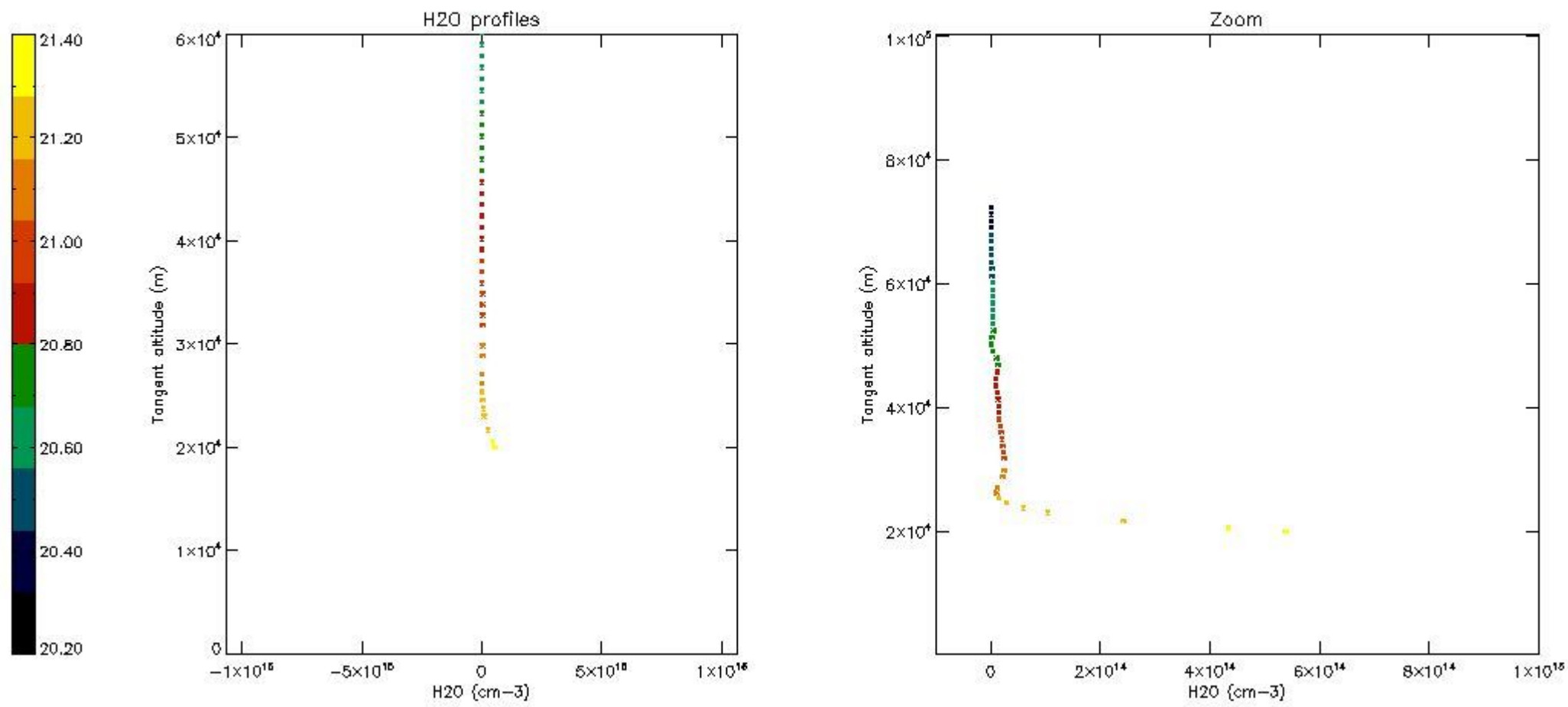
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

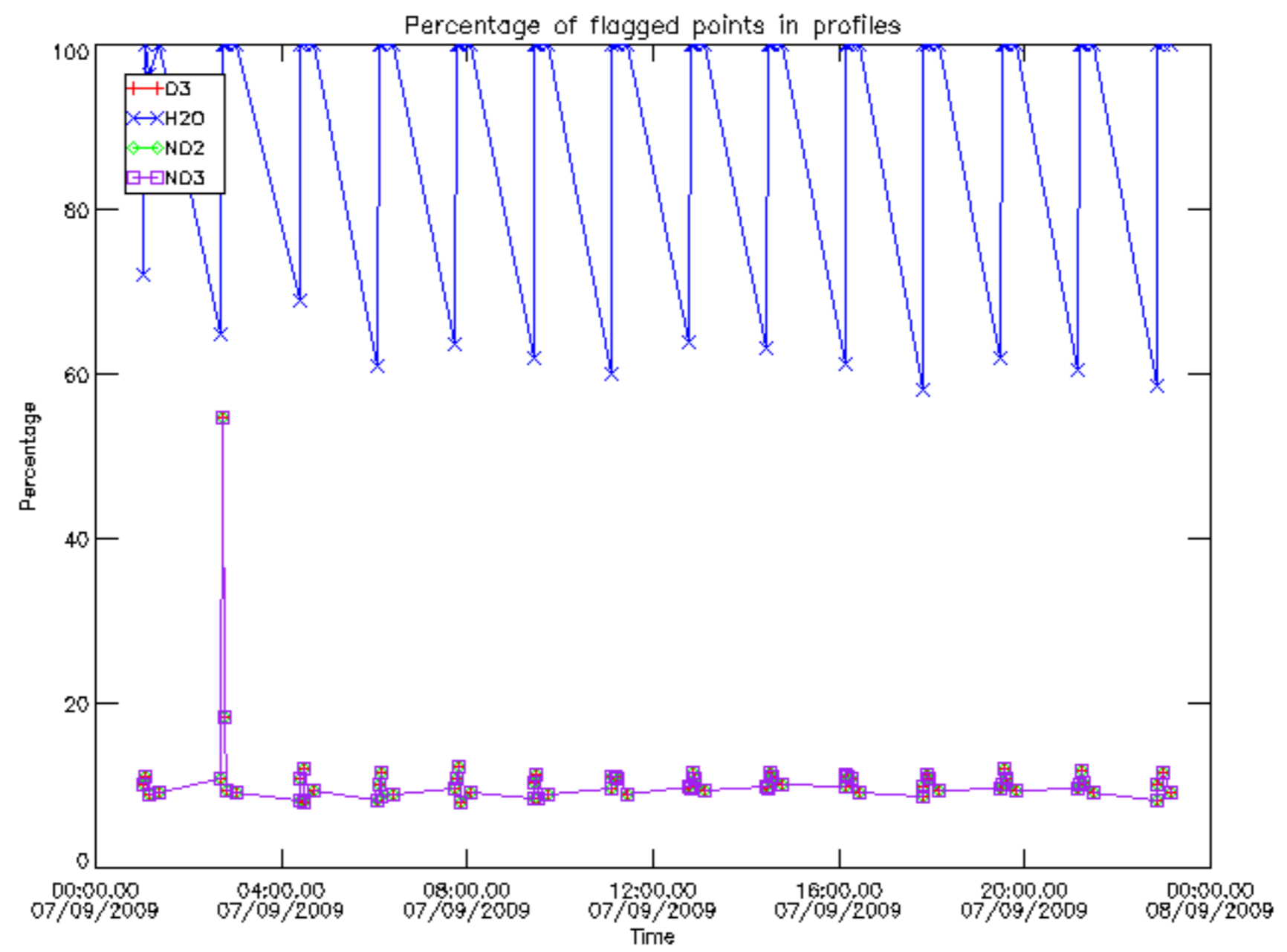
The colorbar represents the latitude.



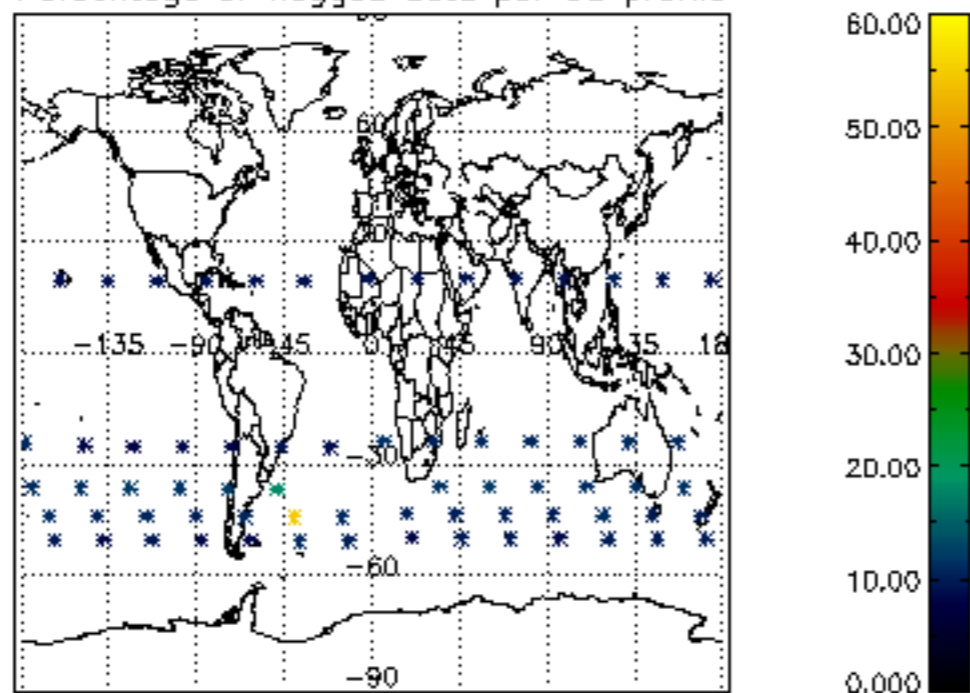
6. Auxiliary Data Files used for the production reported in section 2

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.

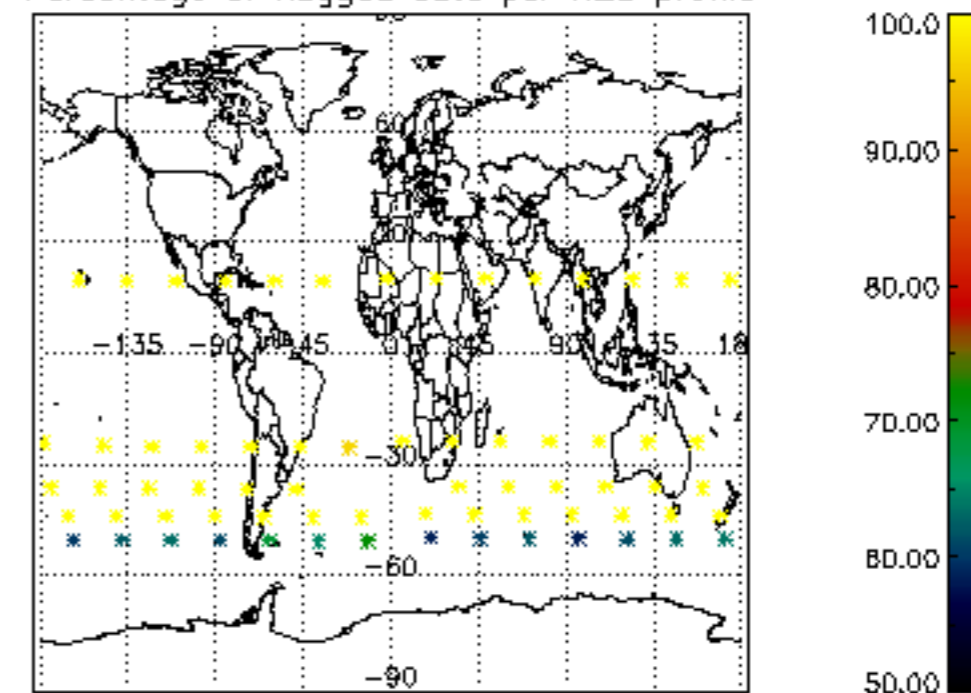
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	07-SEP-2009 00:08:19
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	07-SEP-2009 00:08:19
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	07-SEP-2009 00:08:19



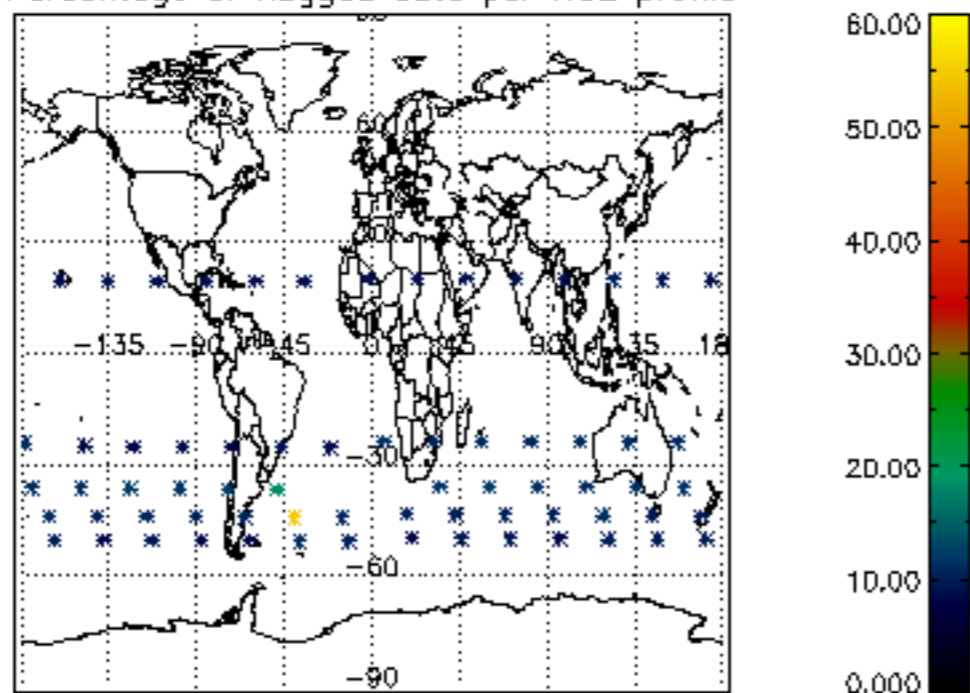
Percentage of flagged data per D3 profile



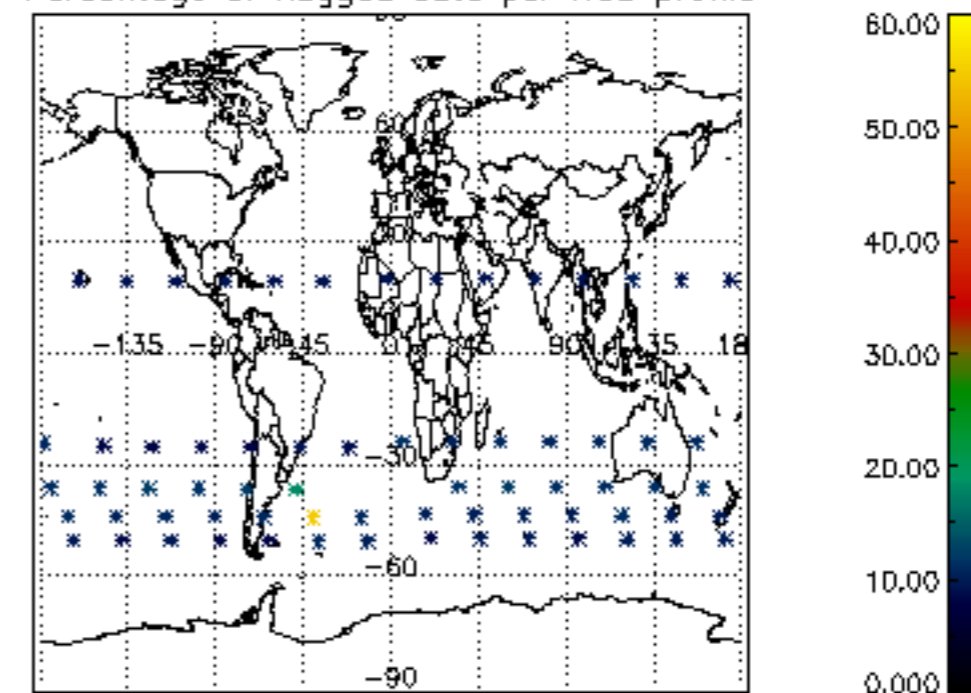
Percentage of flagged data per H2O profile

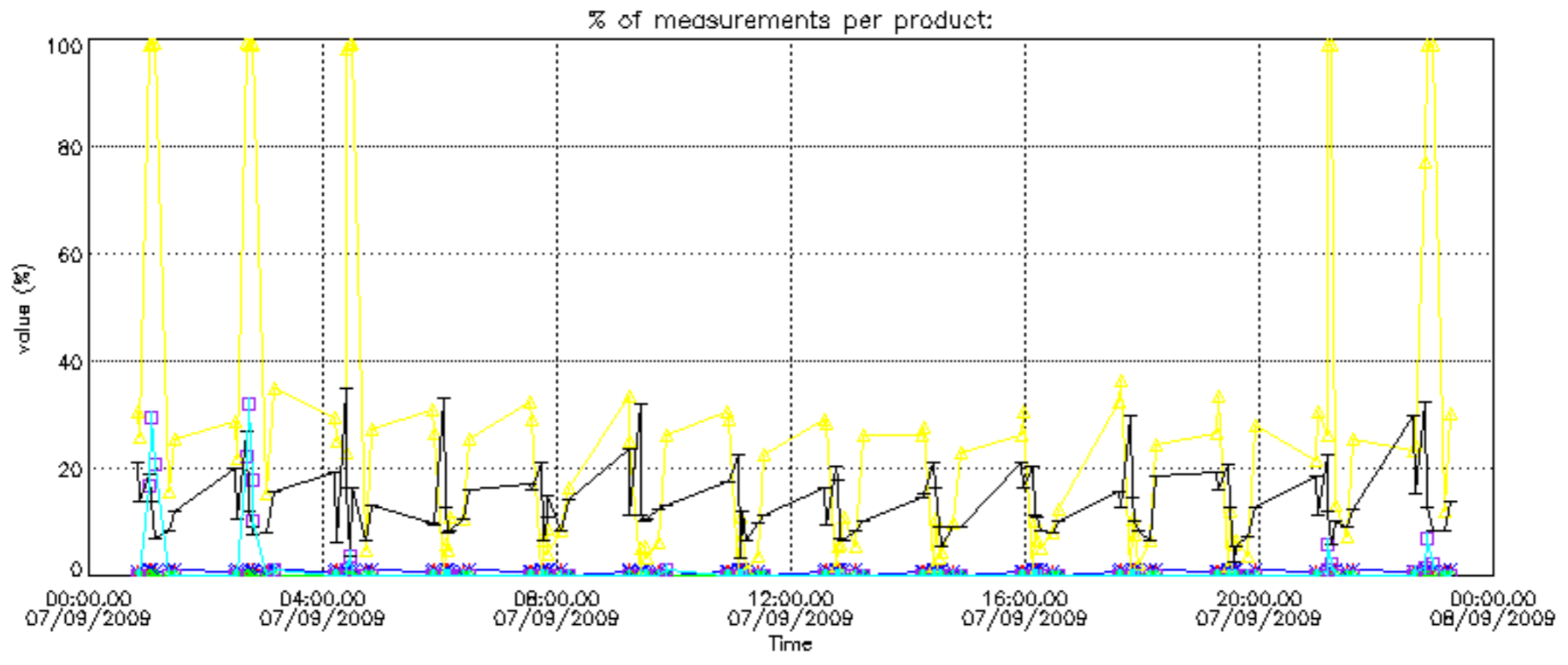


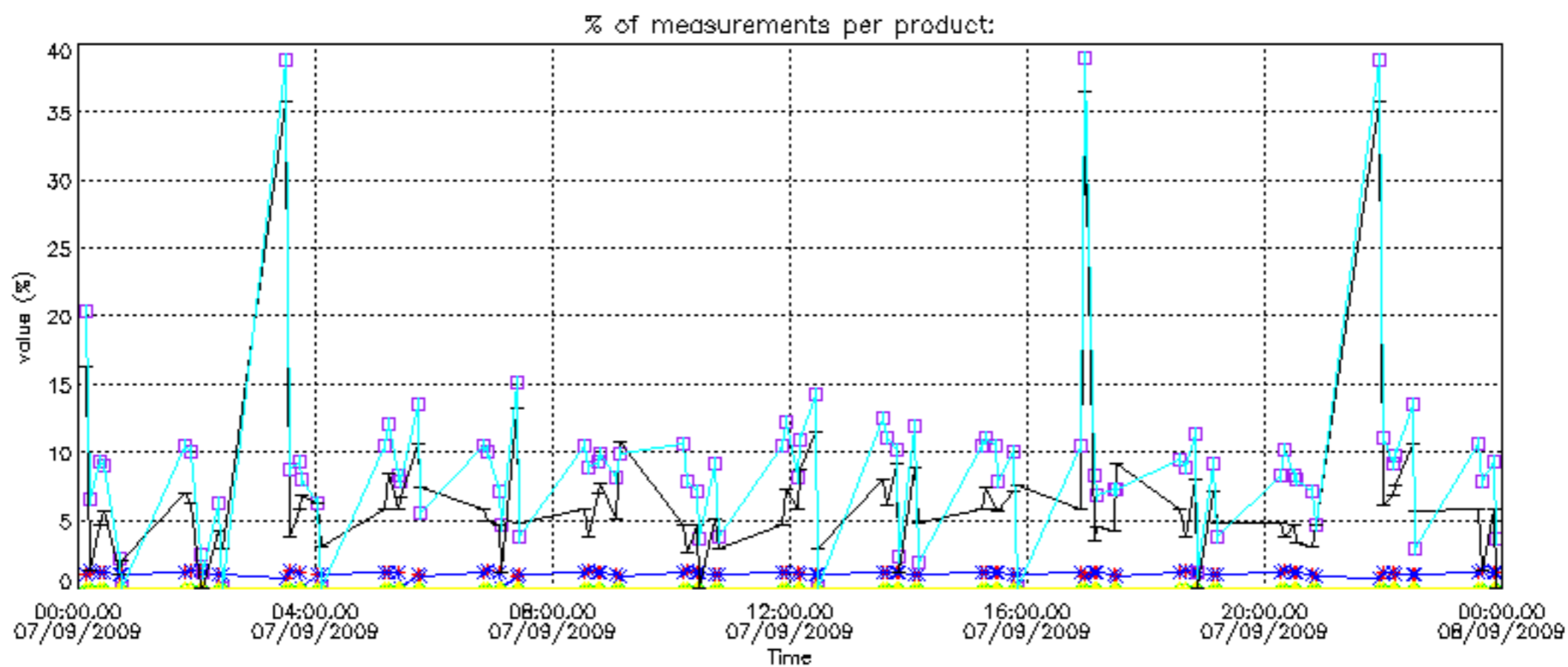
Percentage of flagged data per NO2 profile



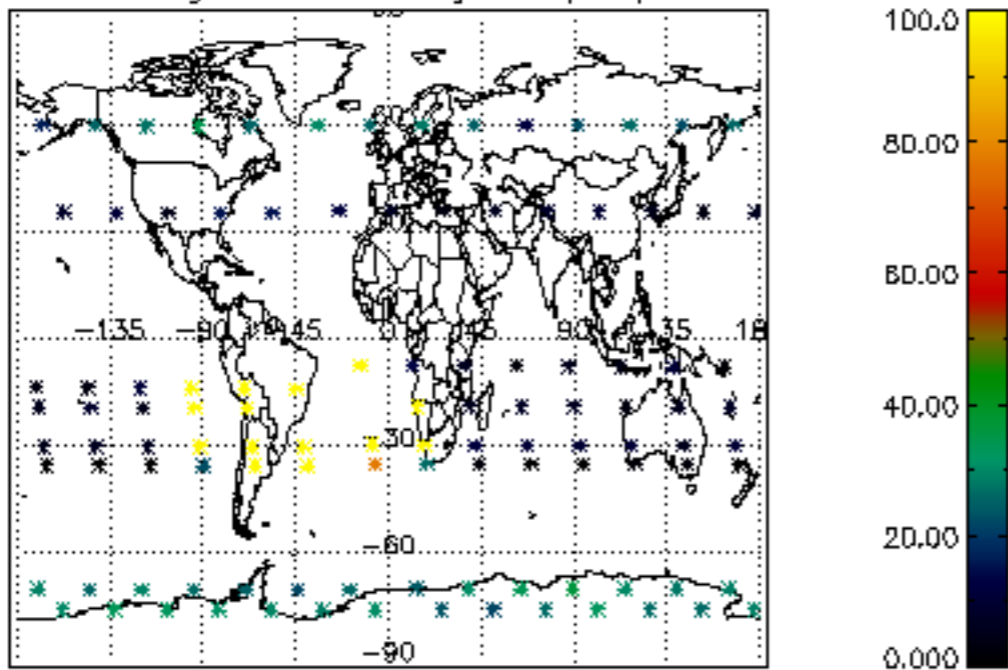
Percentage of flagged data per NO3 profile



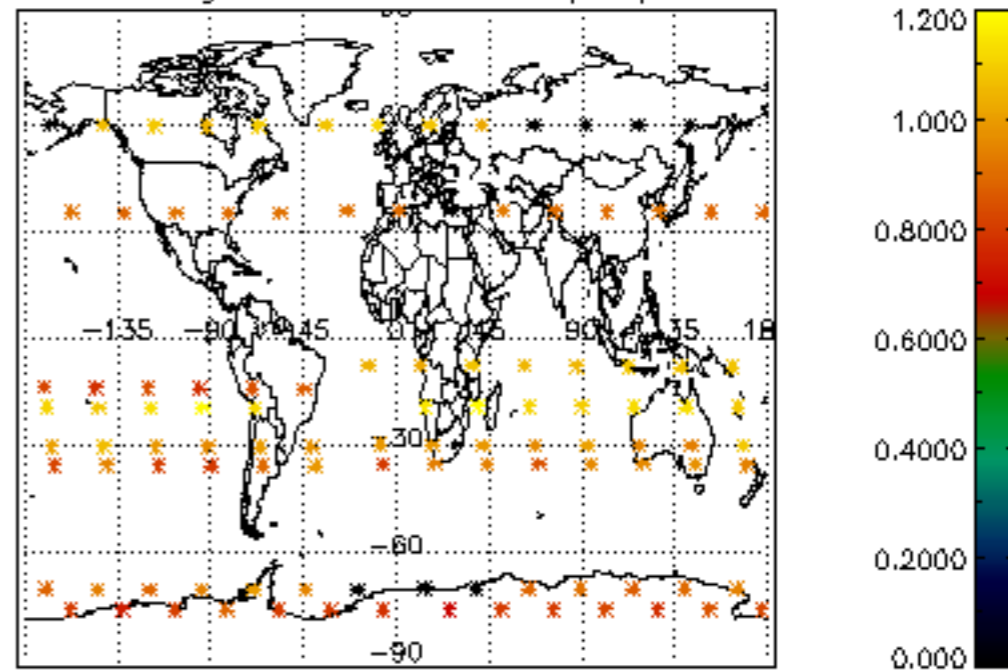




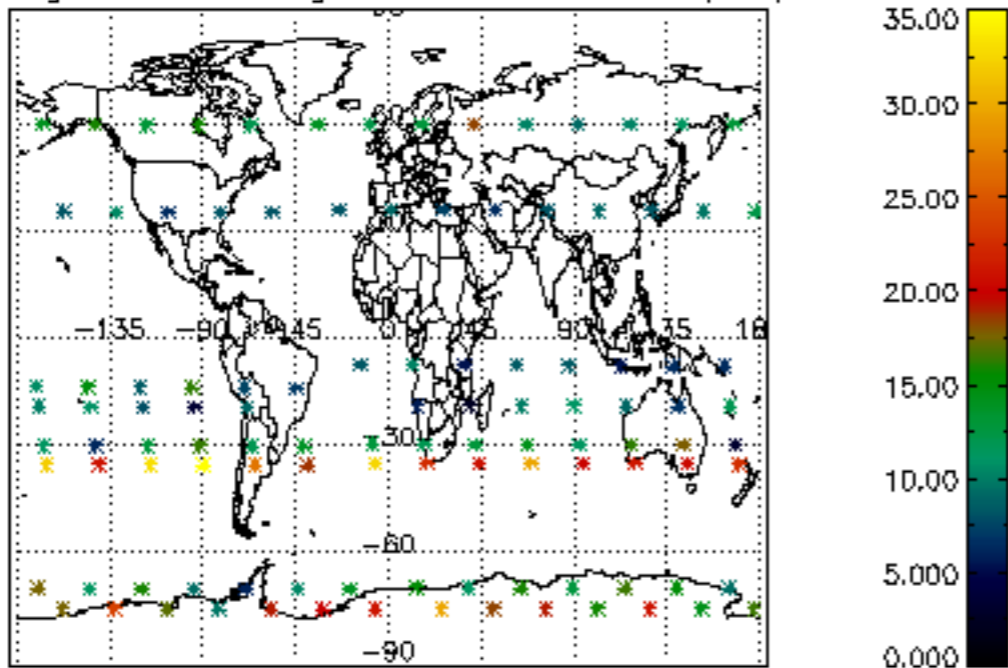
Percentage of cosmic ray hits per profile



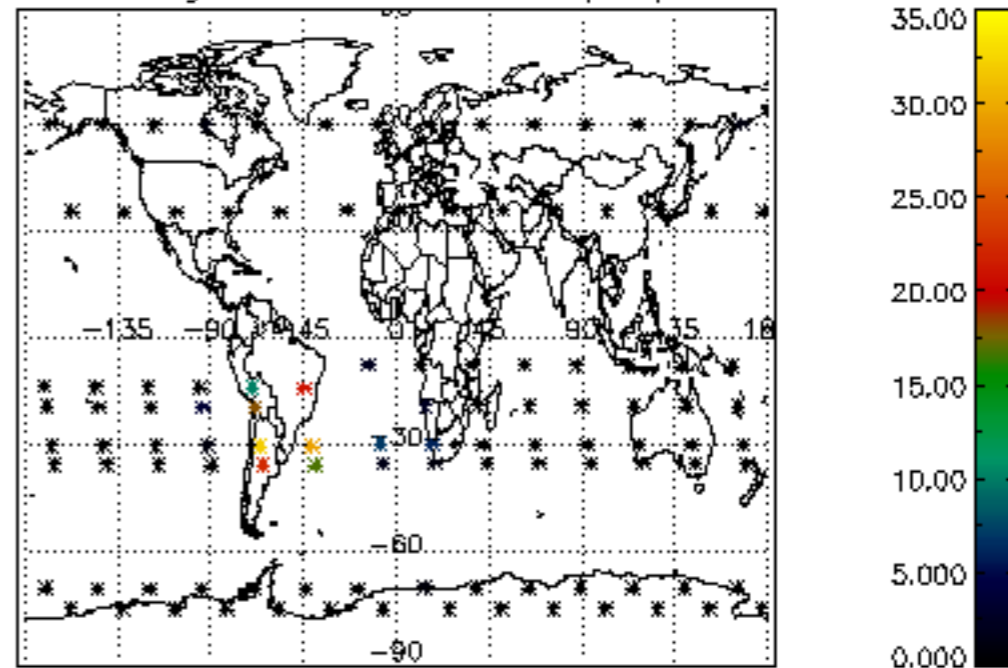
Percentage of datation errors per profile



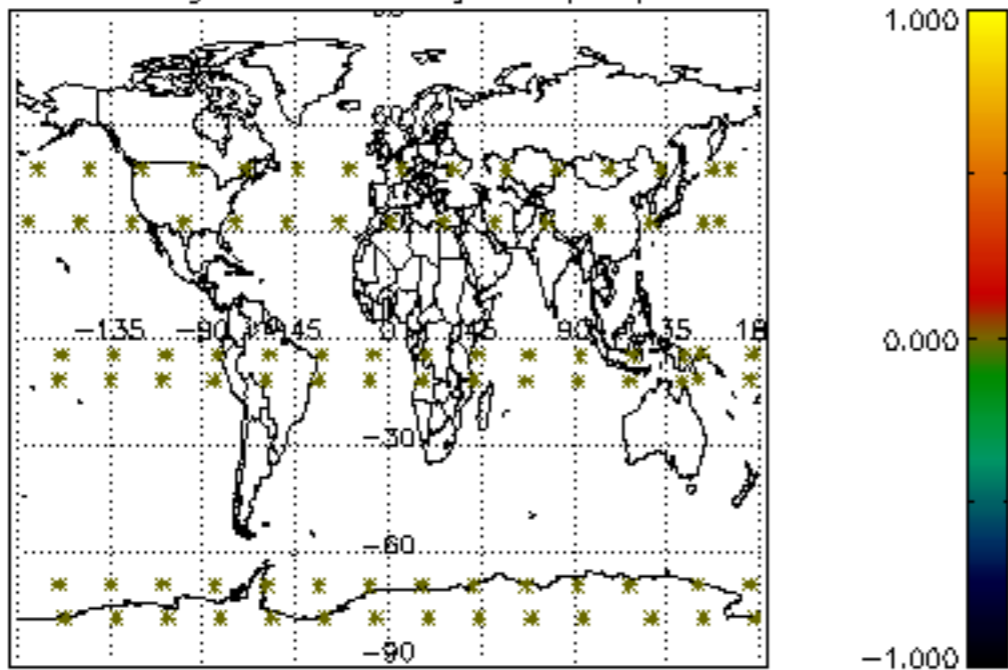
Percentage of star falling outside central band per profile



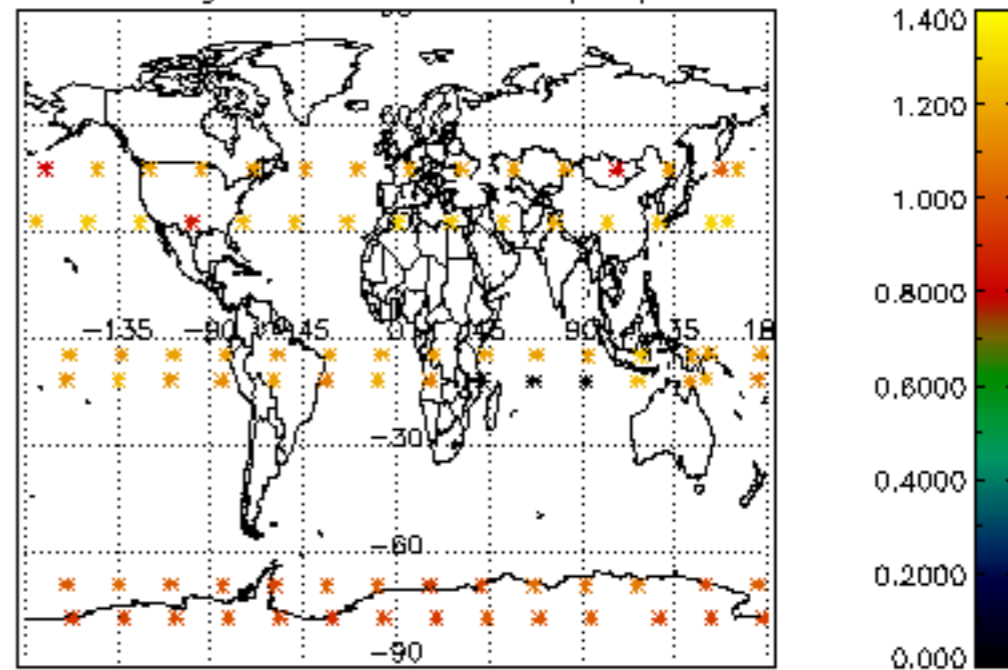
Percentage of saturation errors per profile



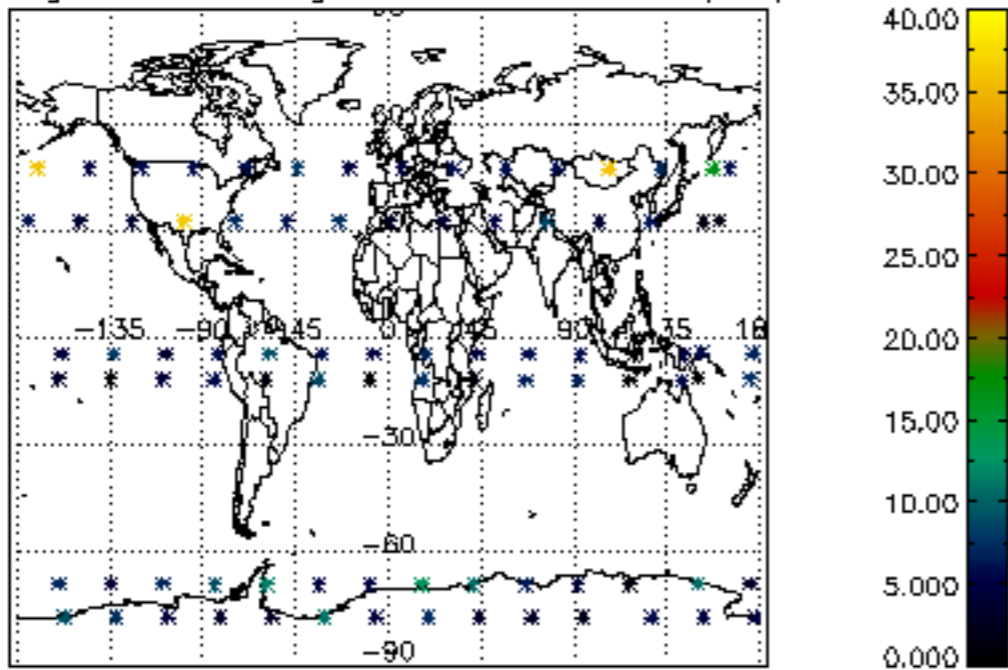
Percentage of cosmic ray hits per profile



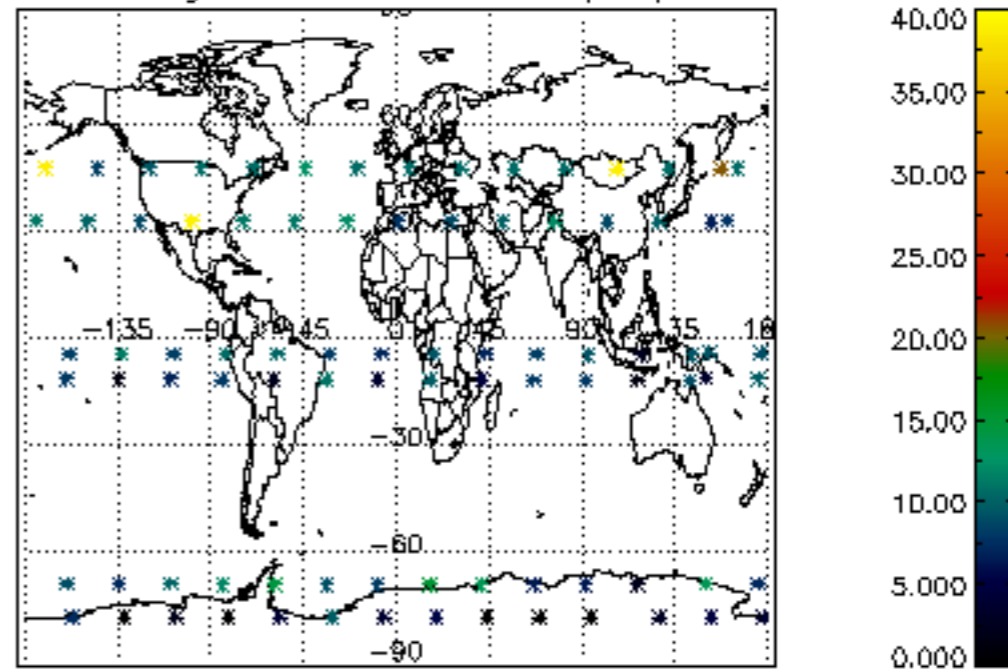
Percentage of datation errors per profile

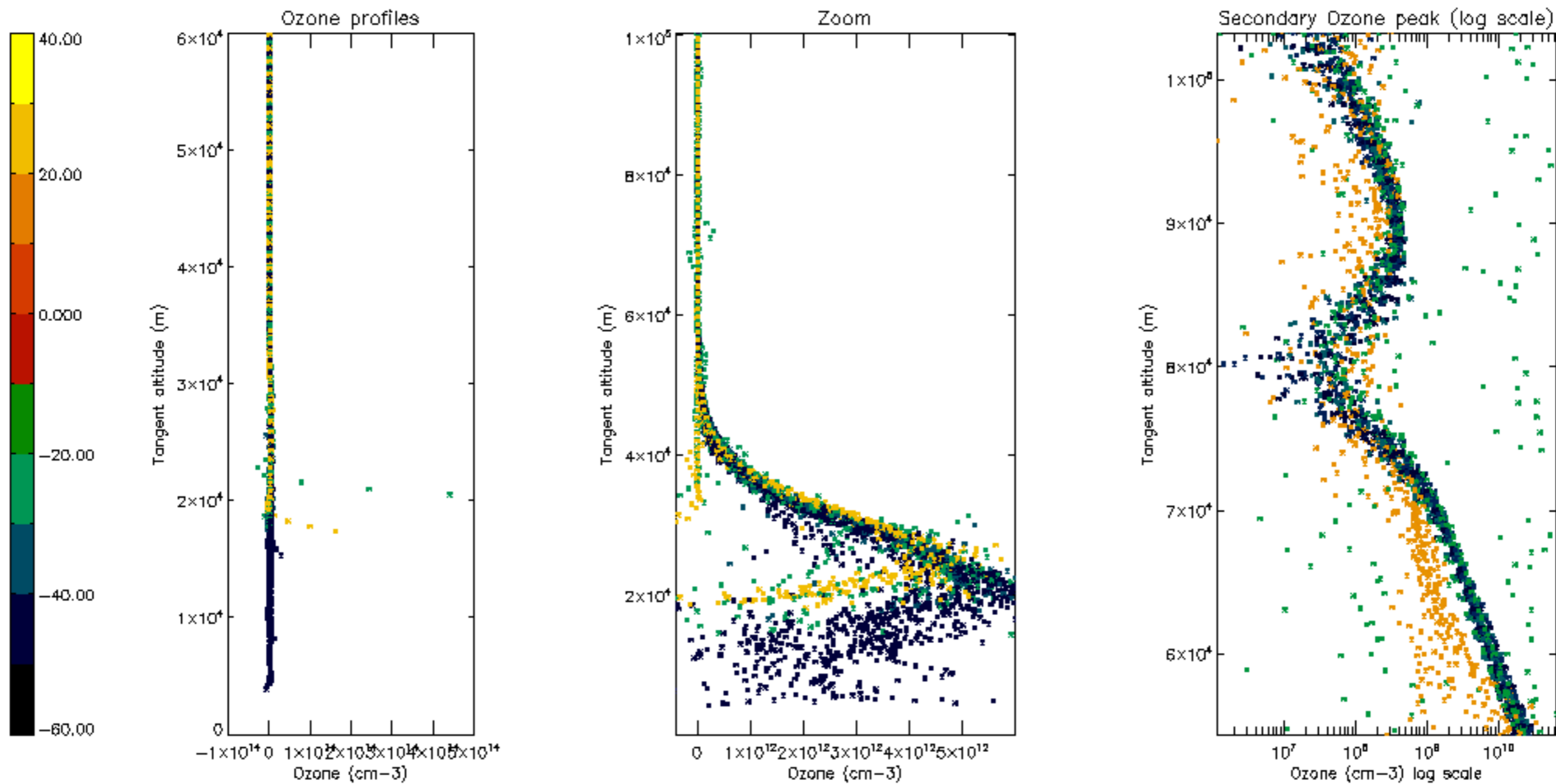


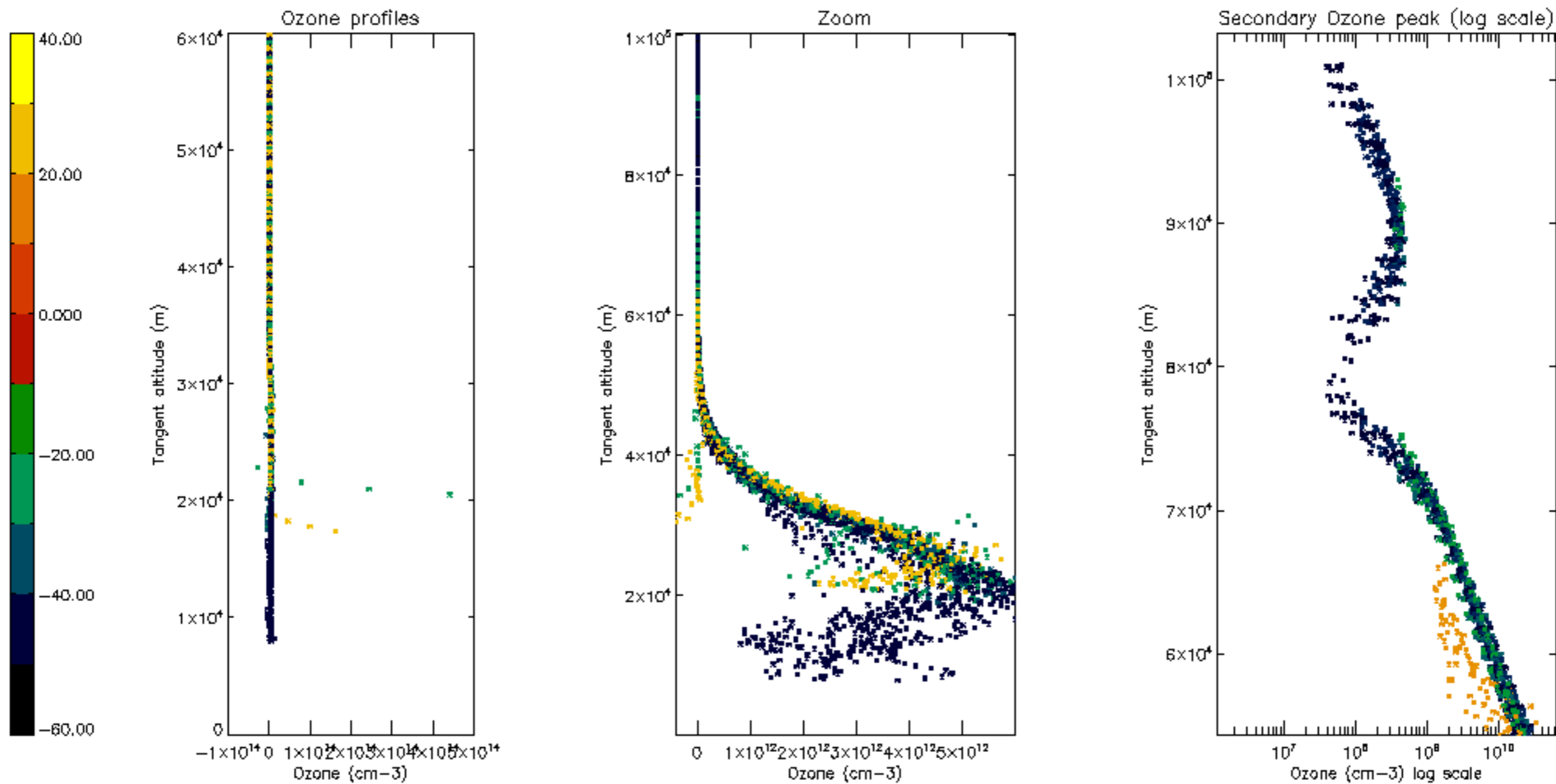
Percentage of star falling outside central band per profile

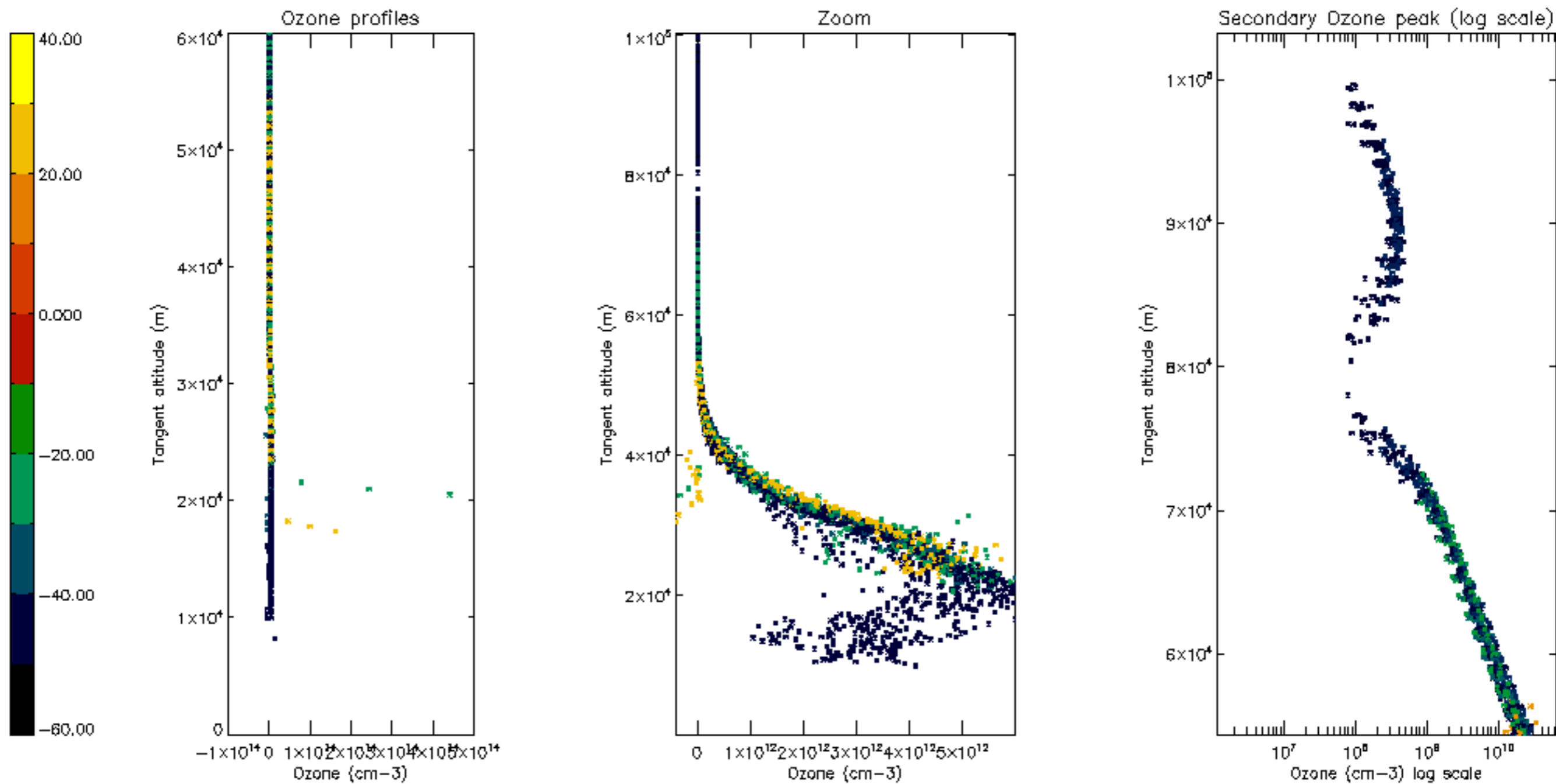


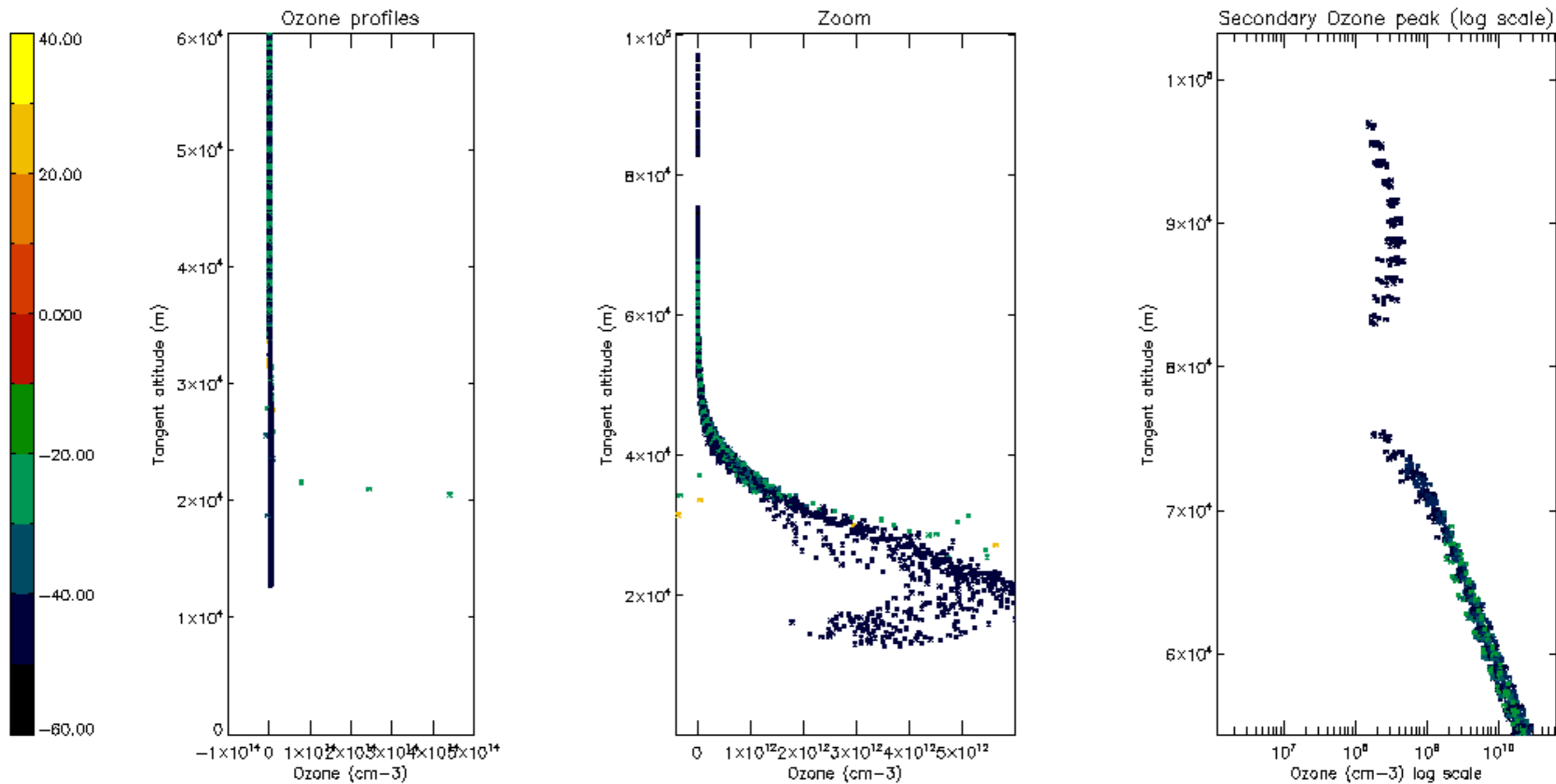
Percentage of saturation errors per profile

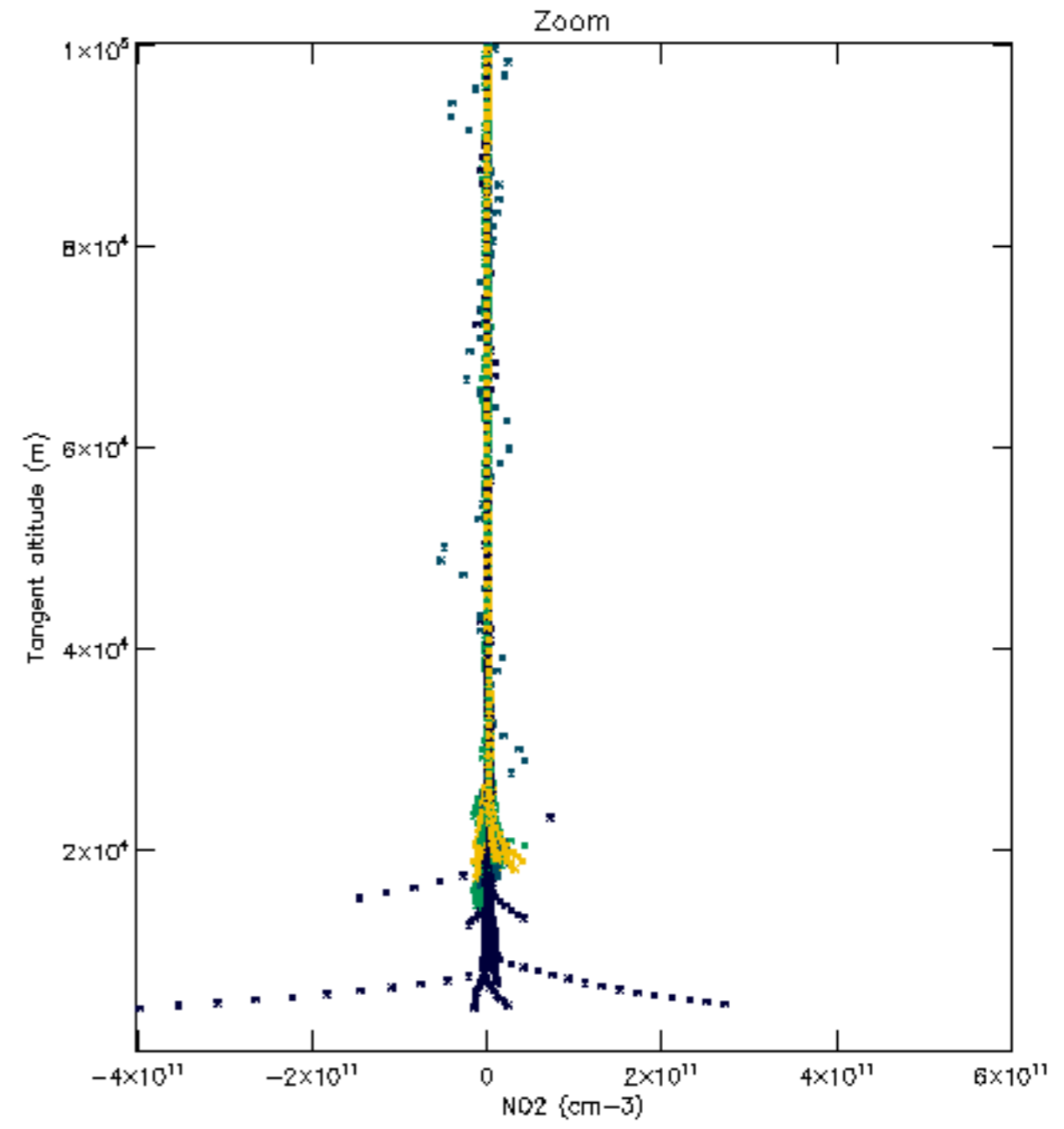
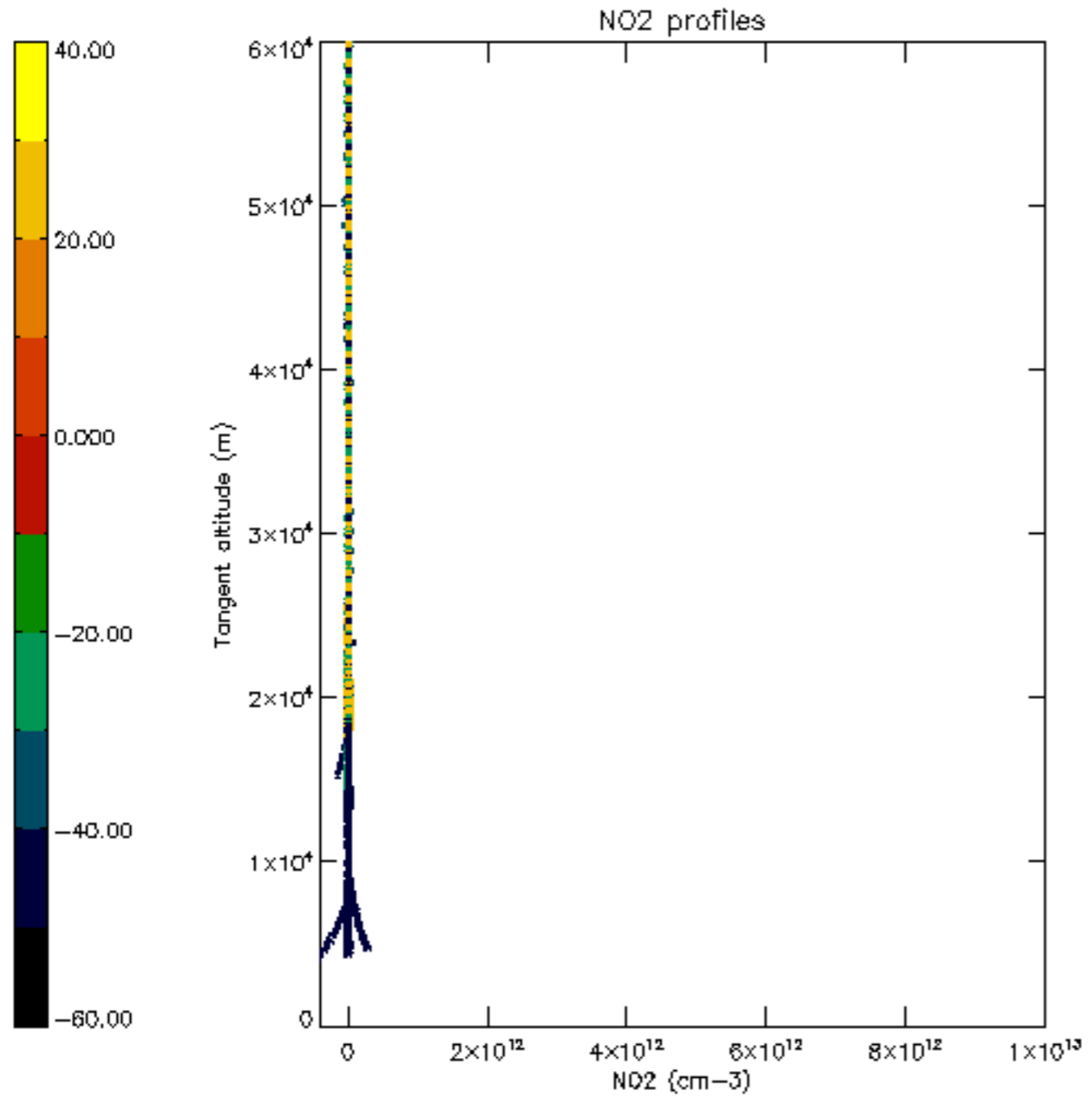


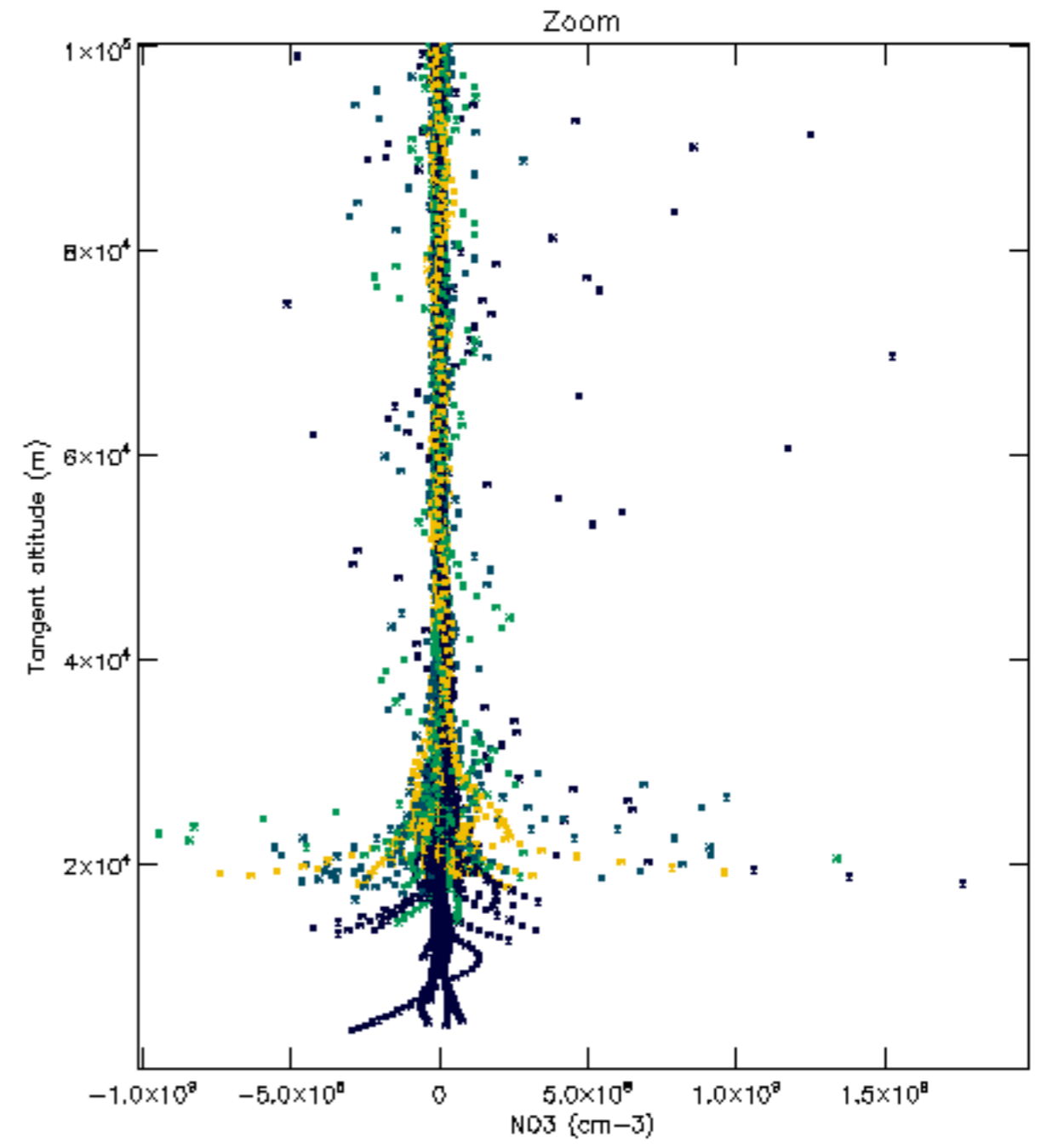
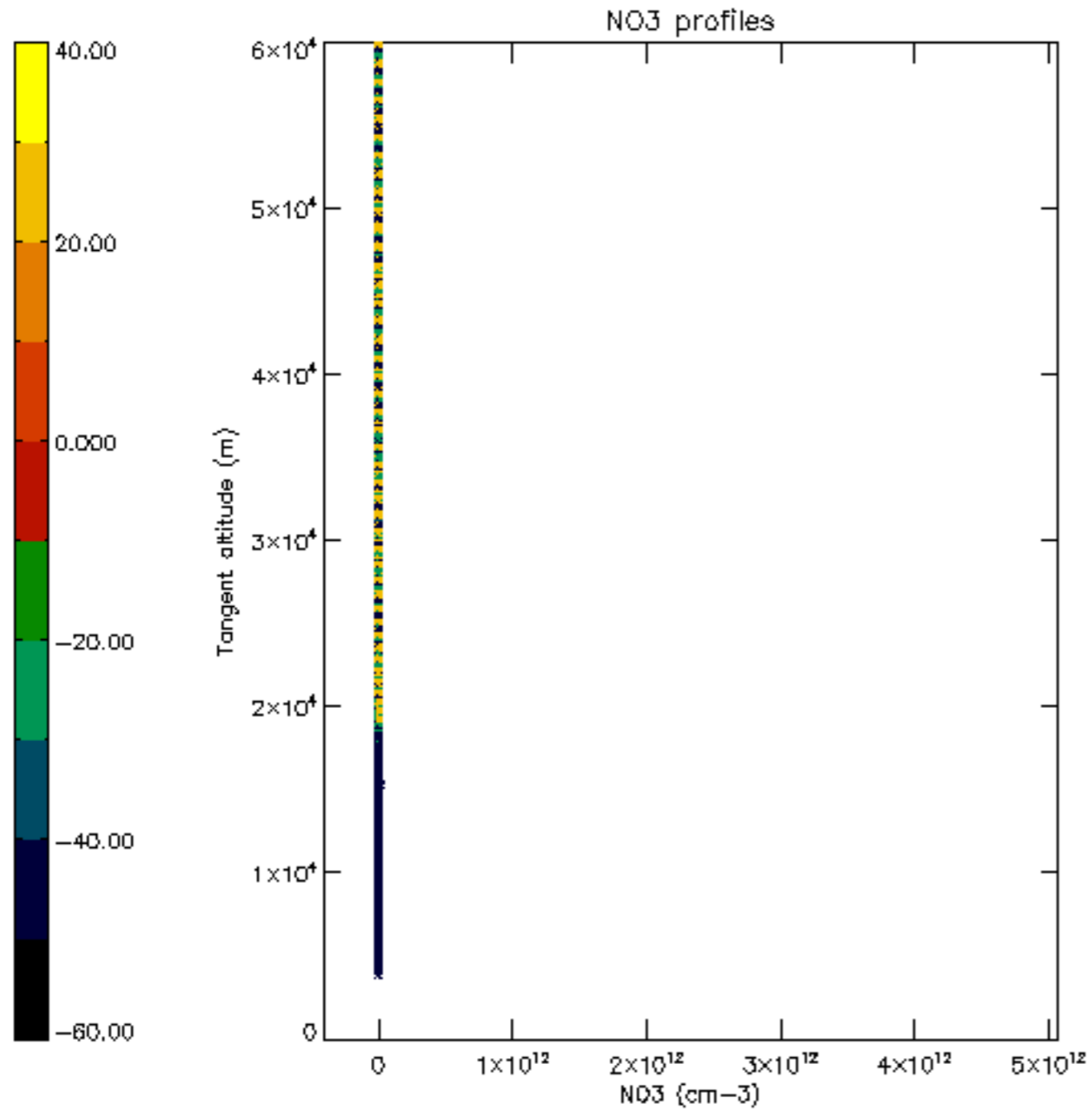


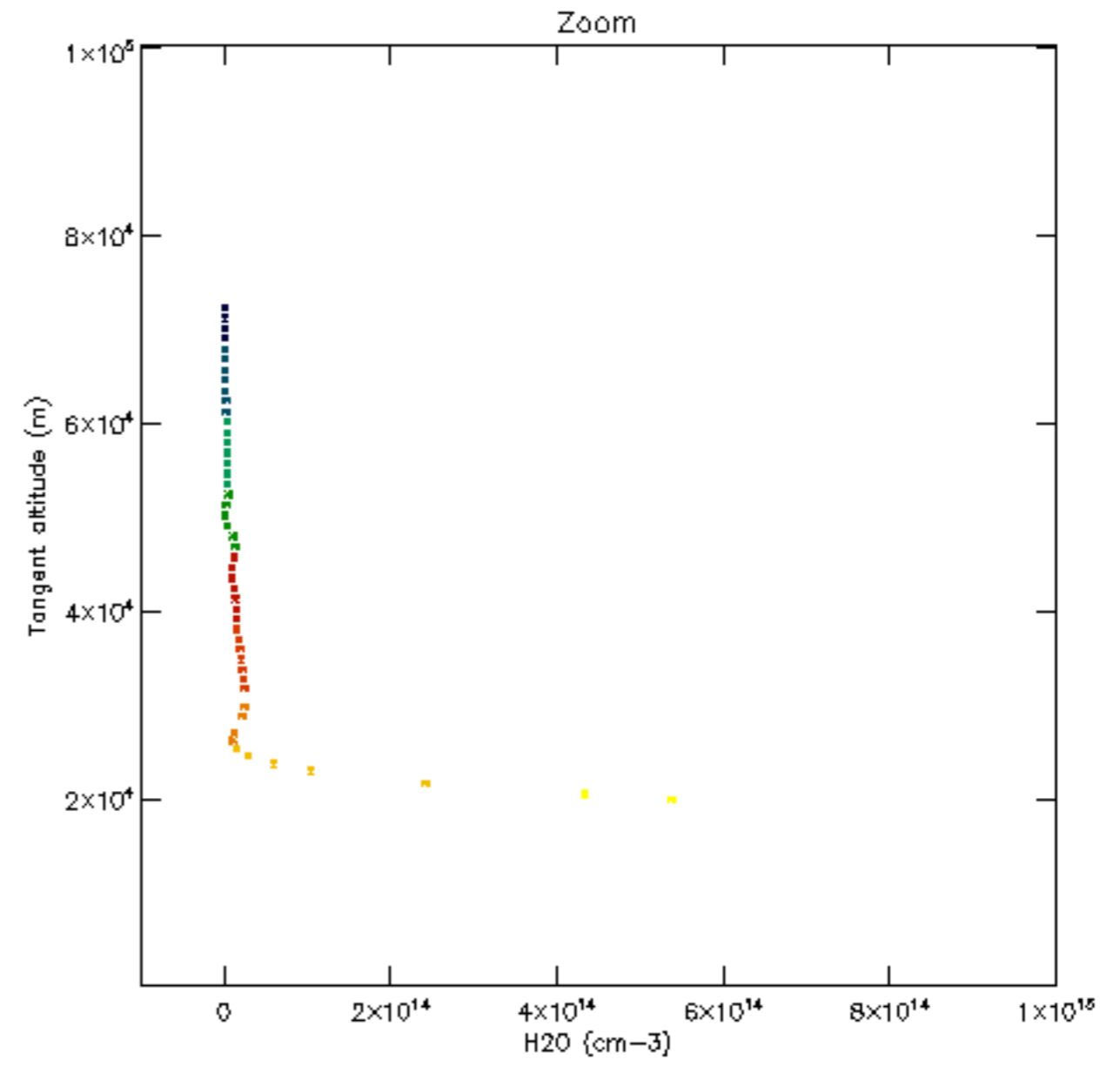
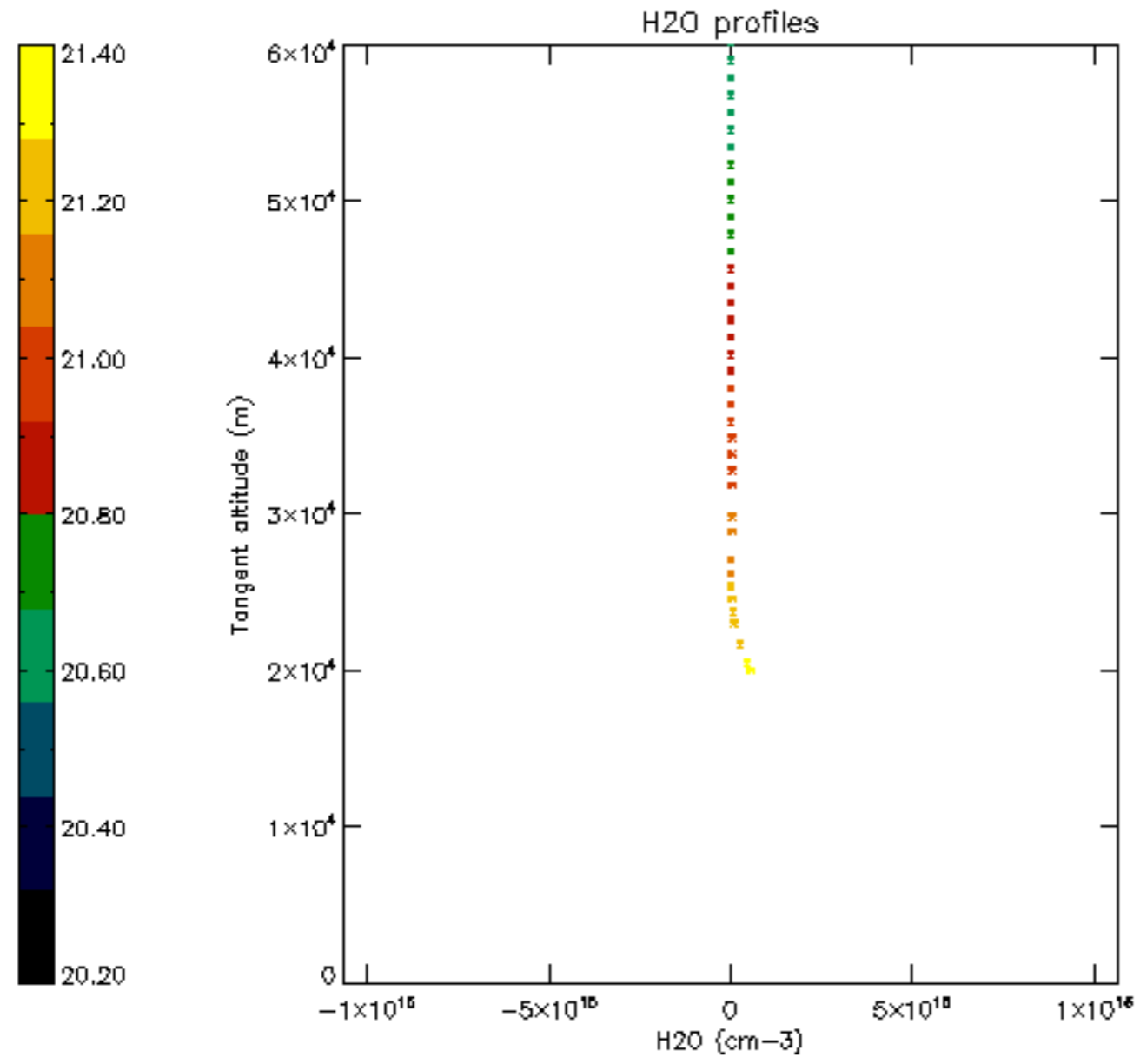


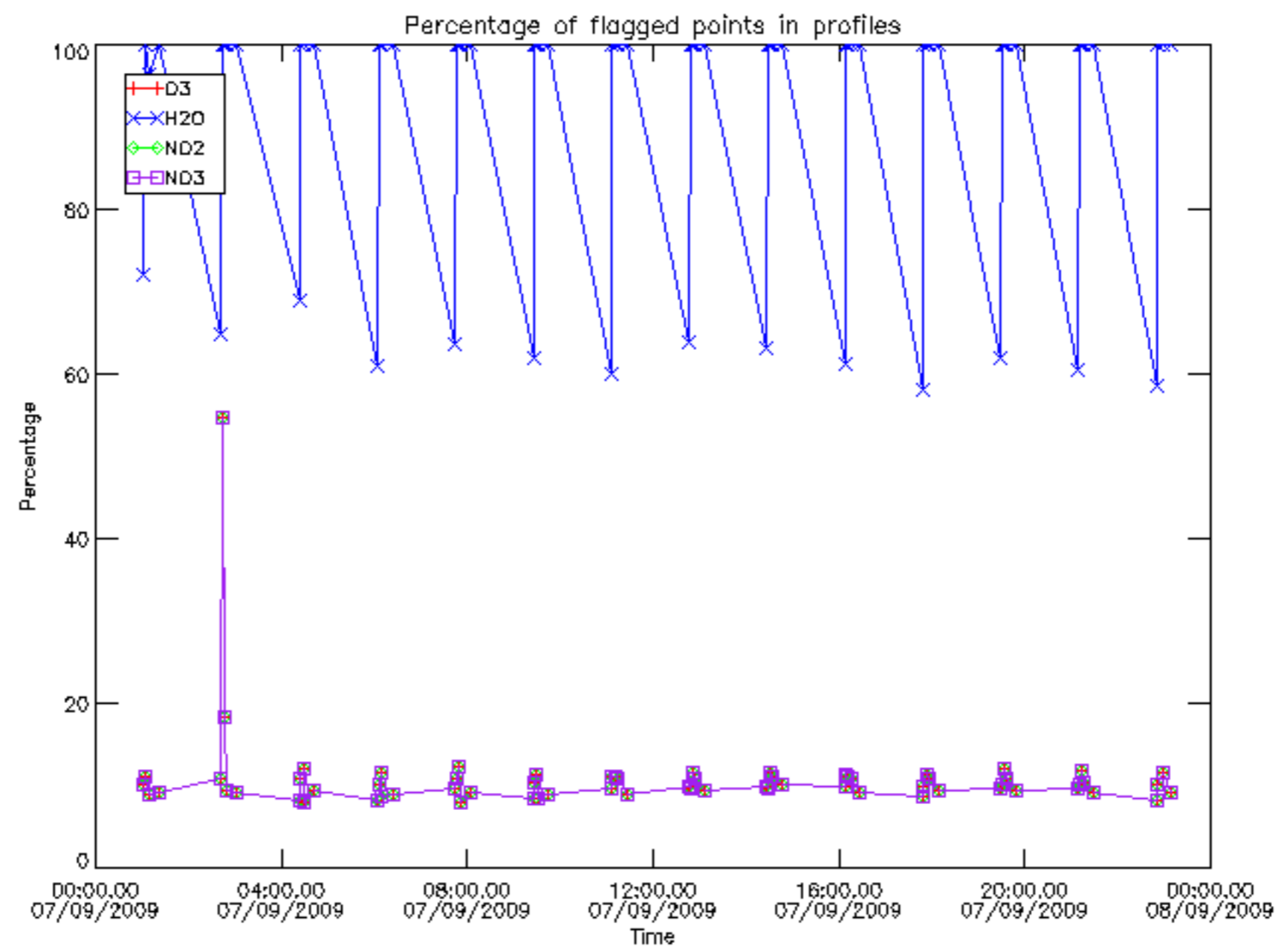




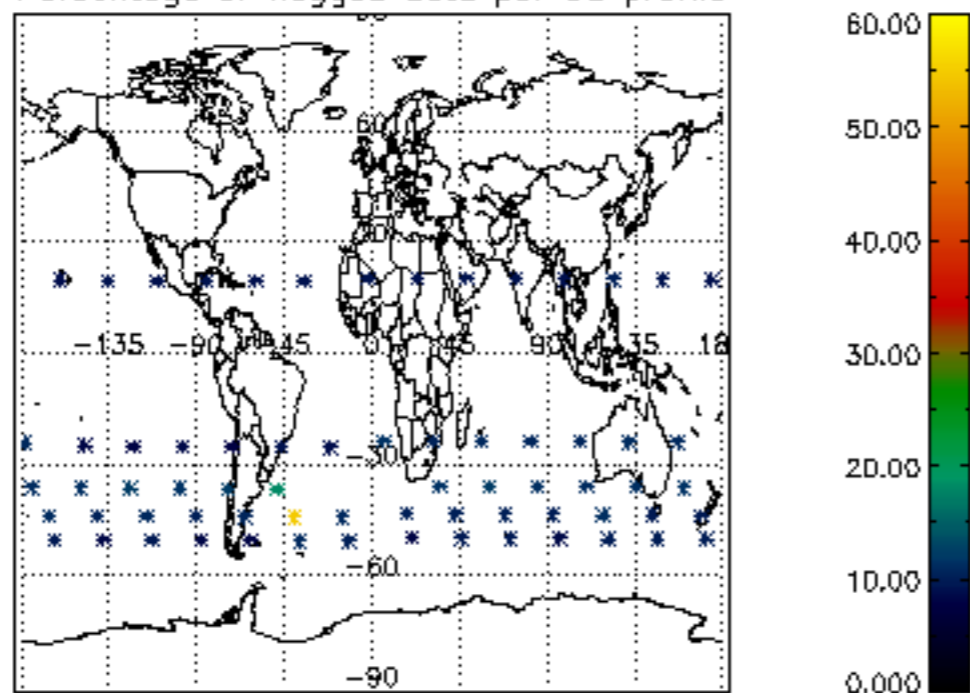




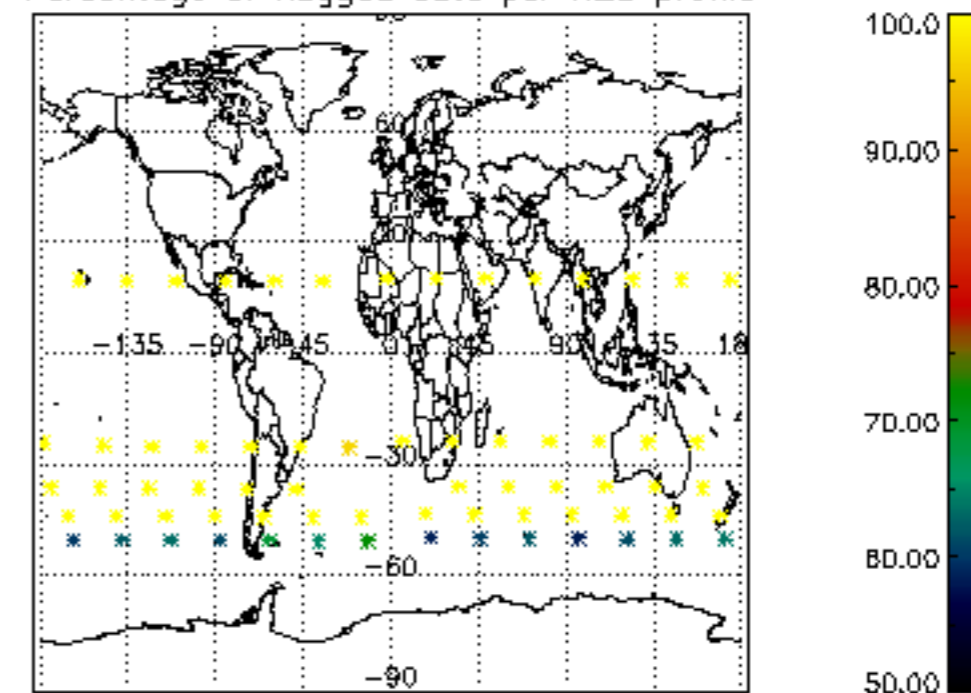




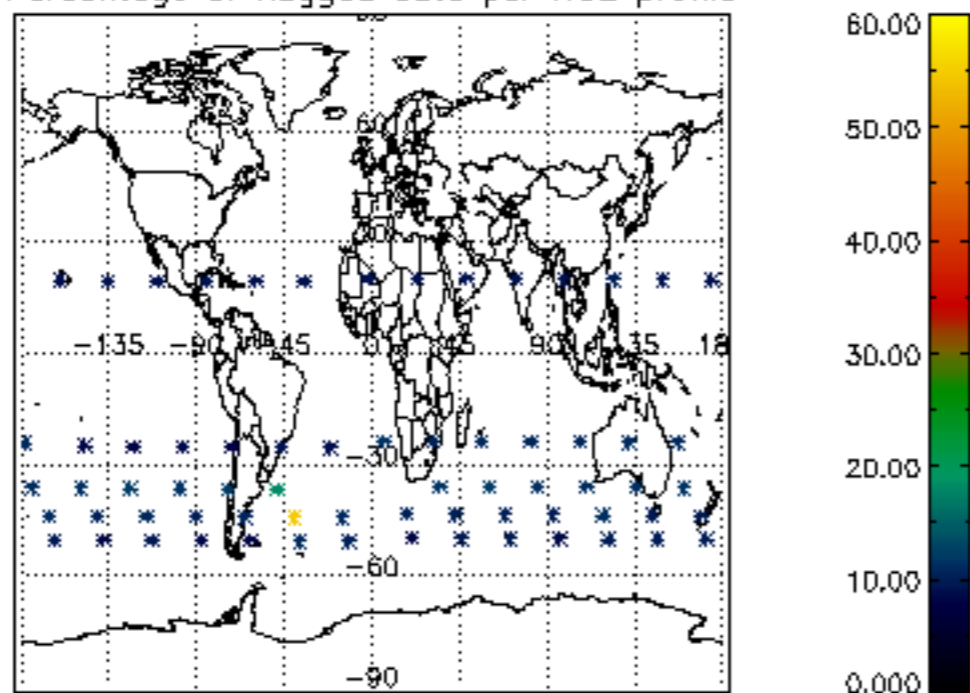
Percentage of flagged data per D3 profile



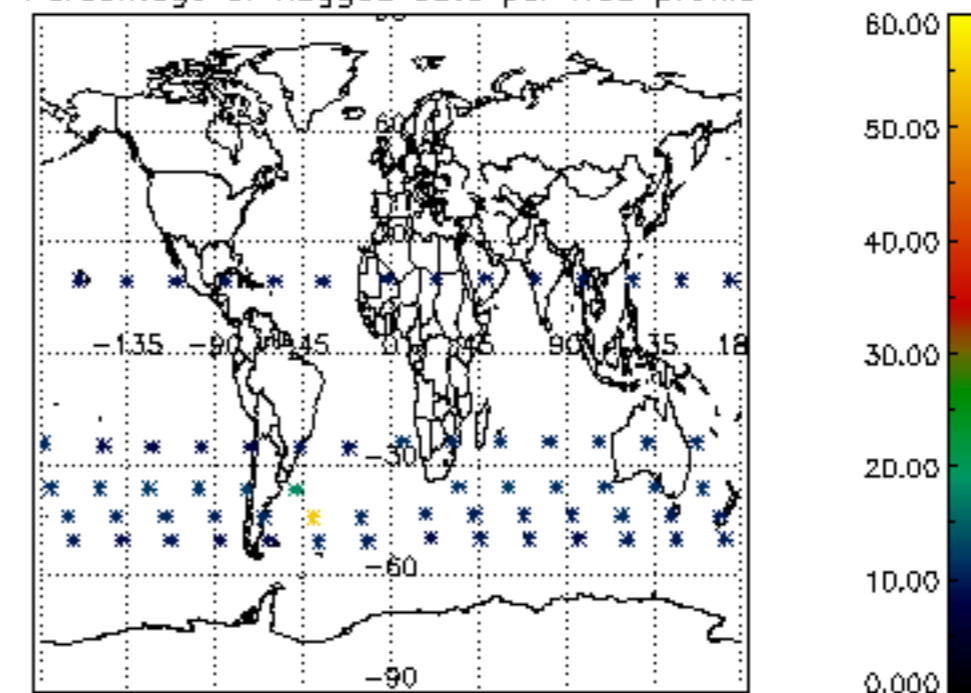
Percentage of flagged data per H2O profile

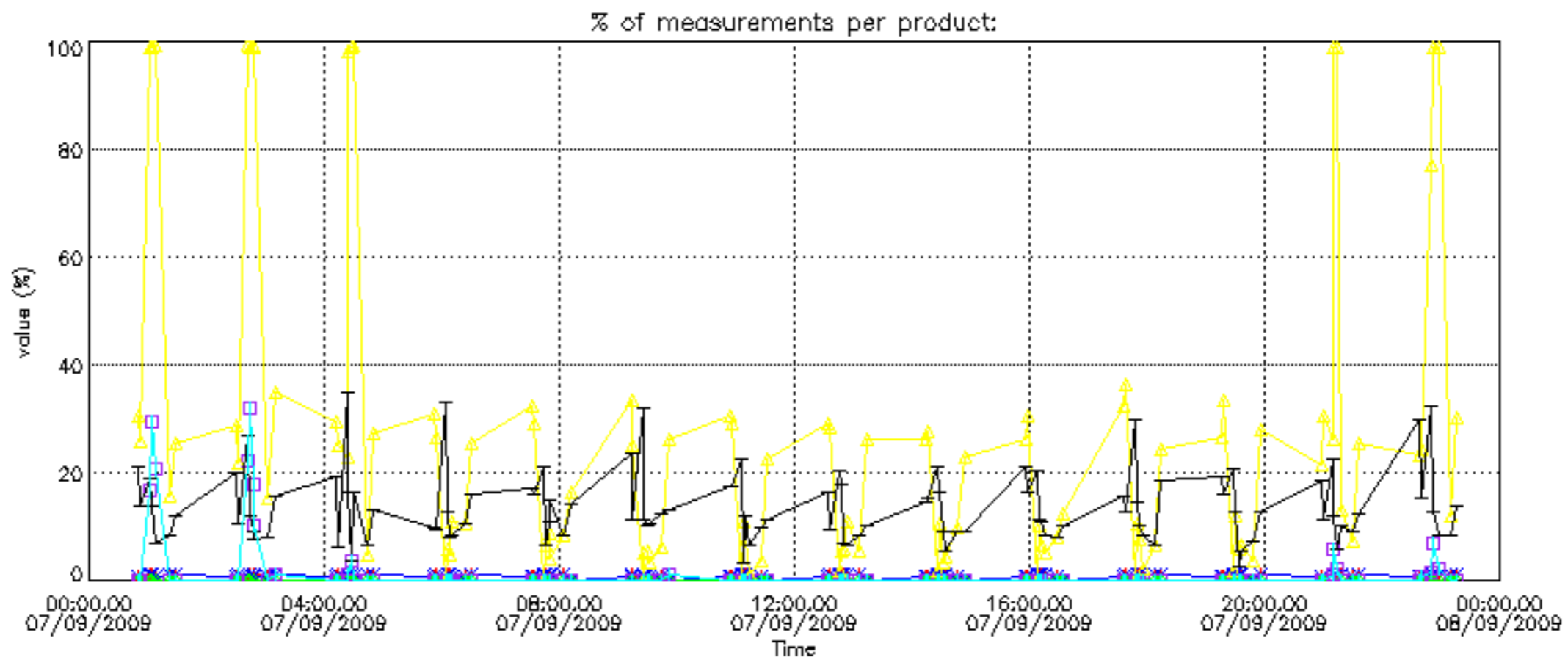


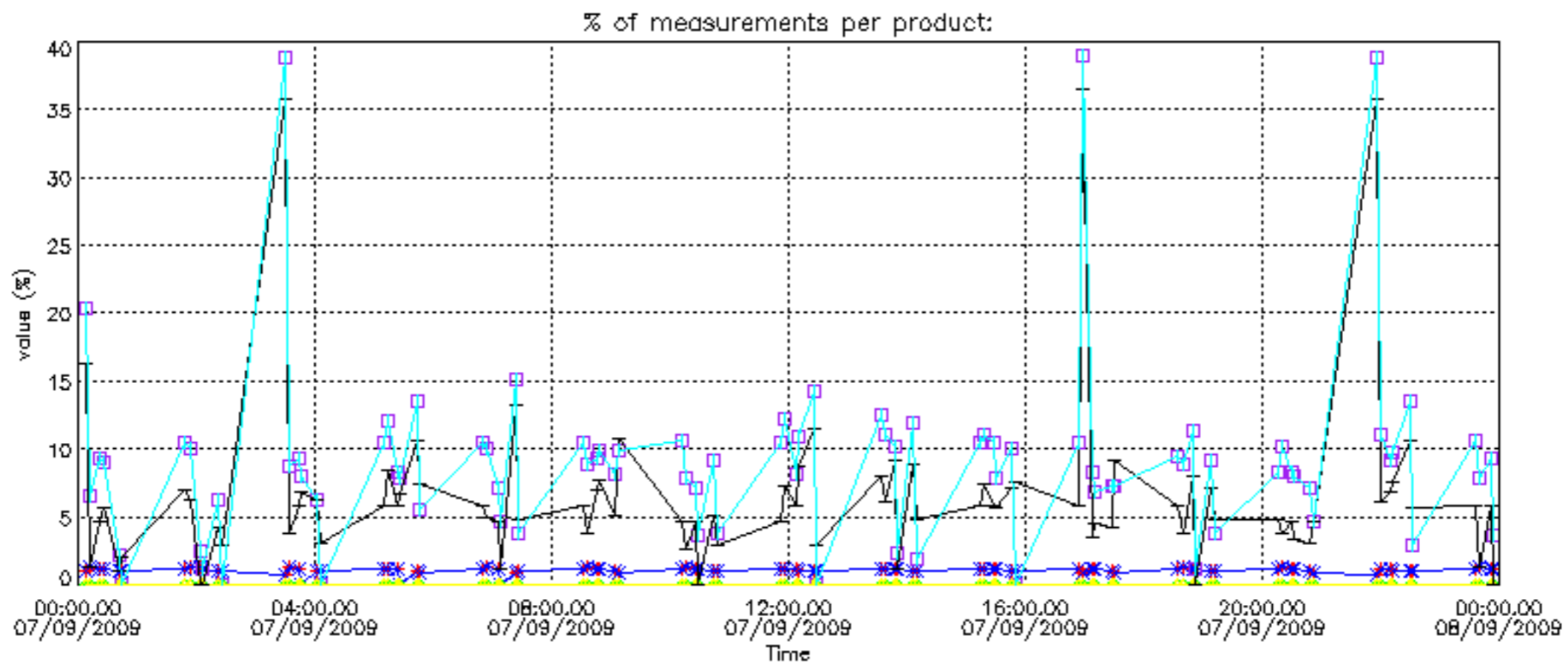
Percentage of flagged data per NO2 profile



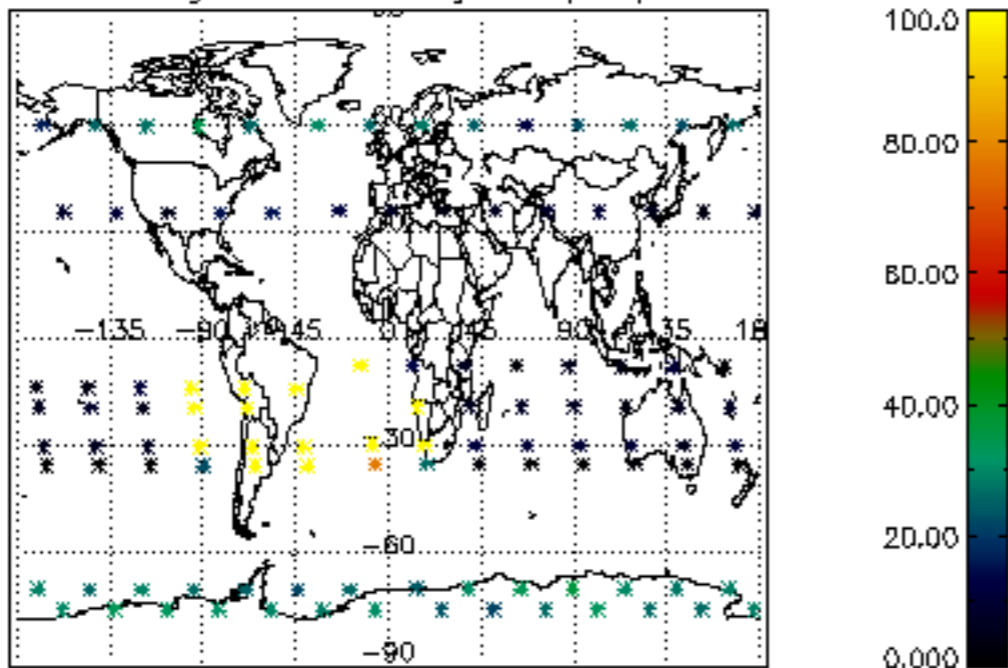
Percentage of flagged data per NO3 profile



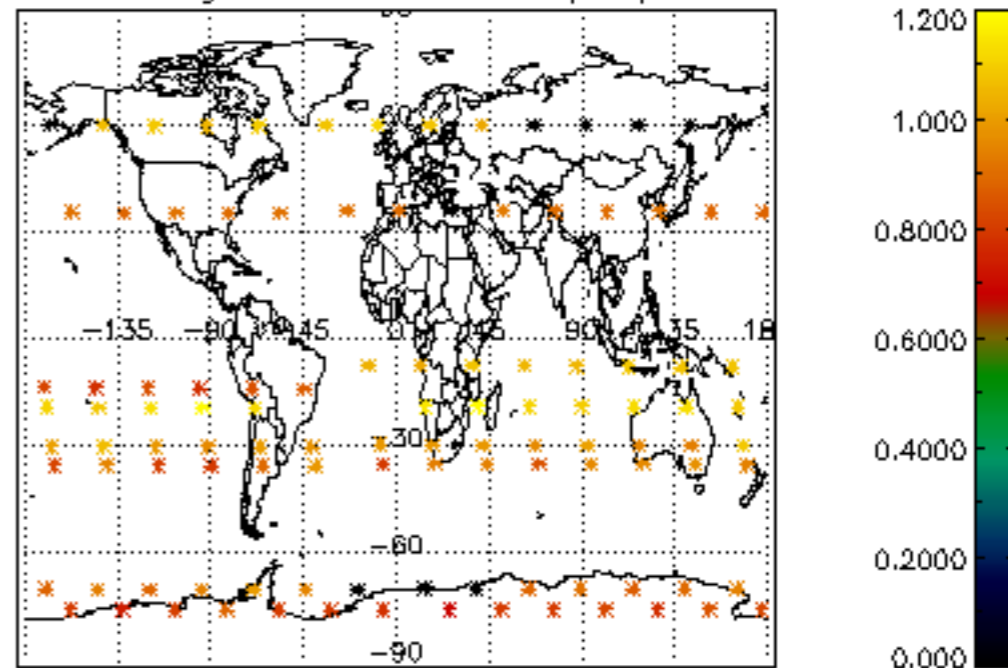




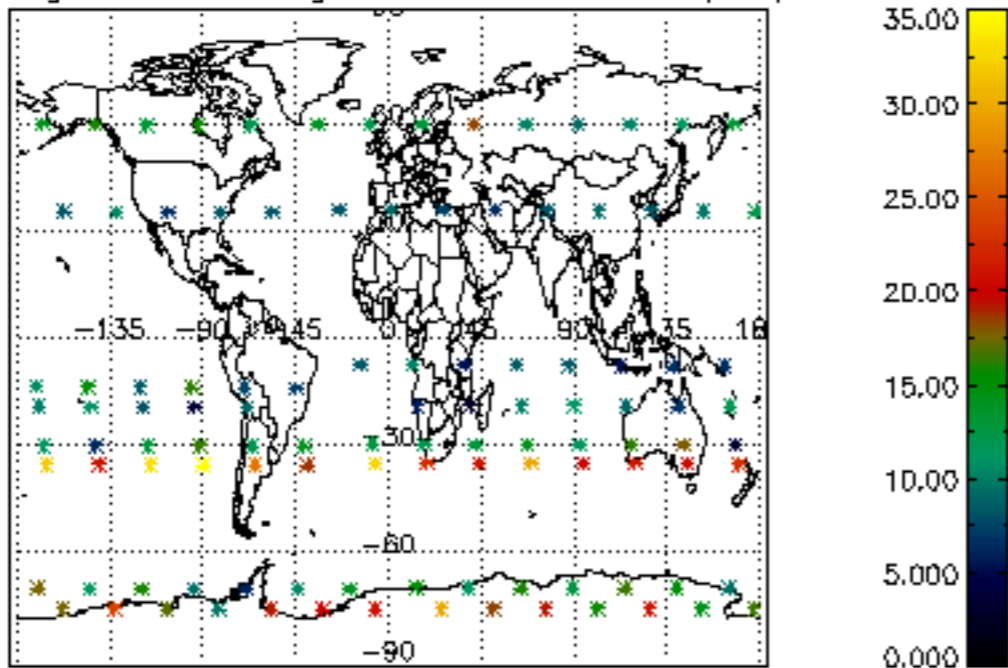
Percentage of cosmic ray hits per profile



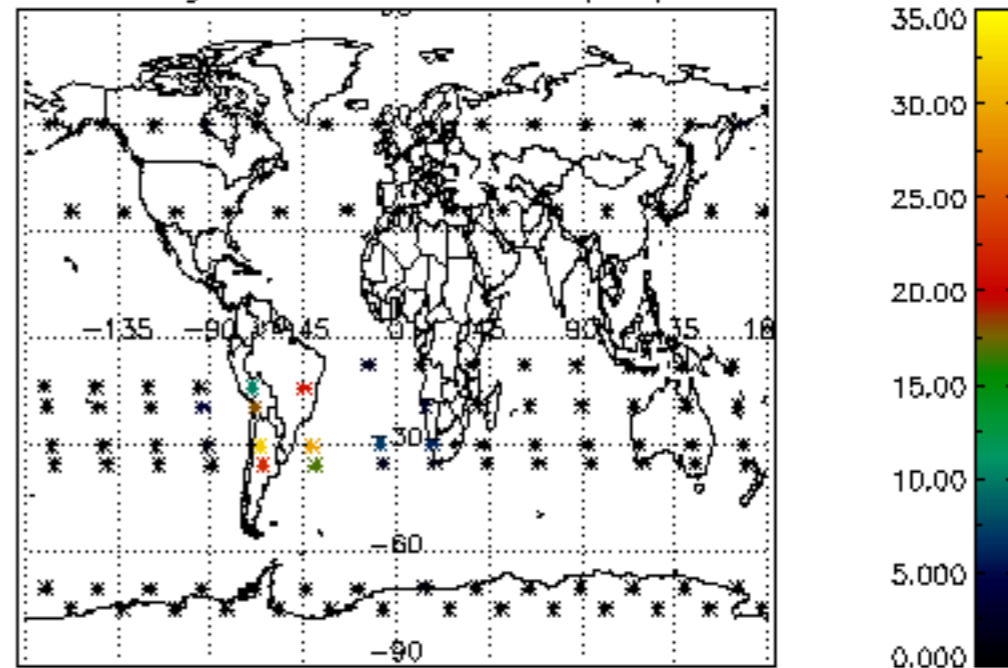
Percentage of datation errors per profile



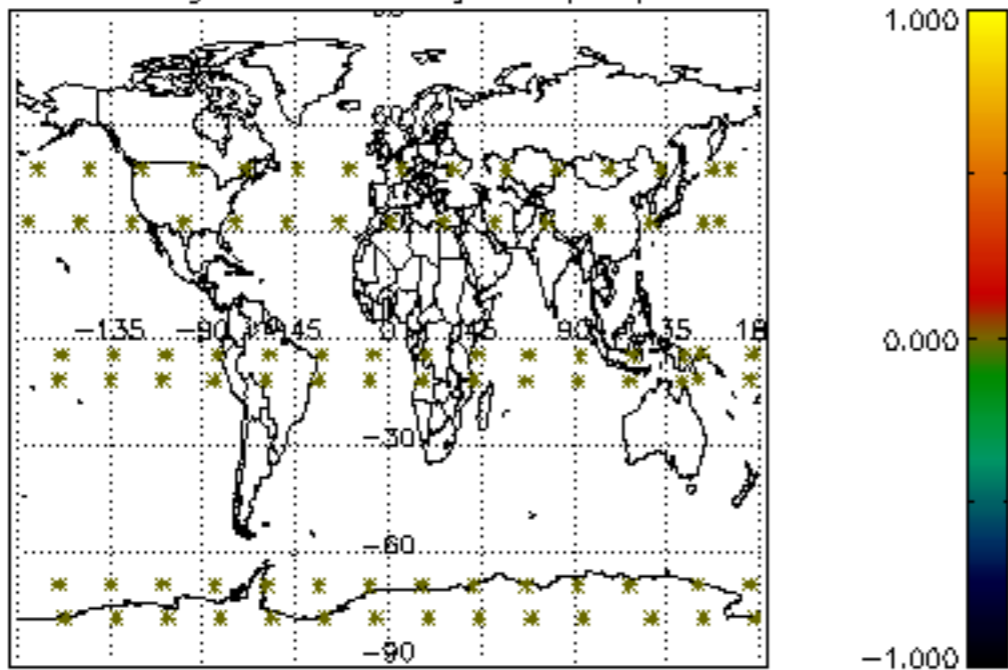
Percentage of star falling outside central band per profile



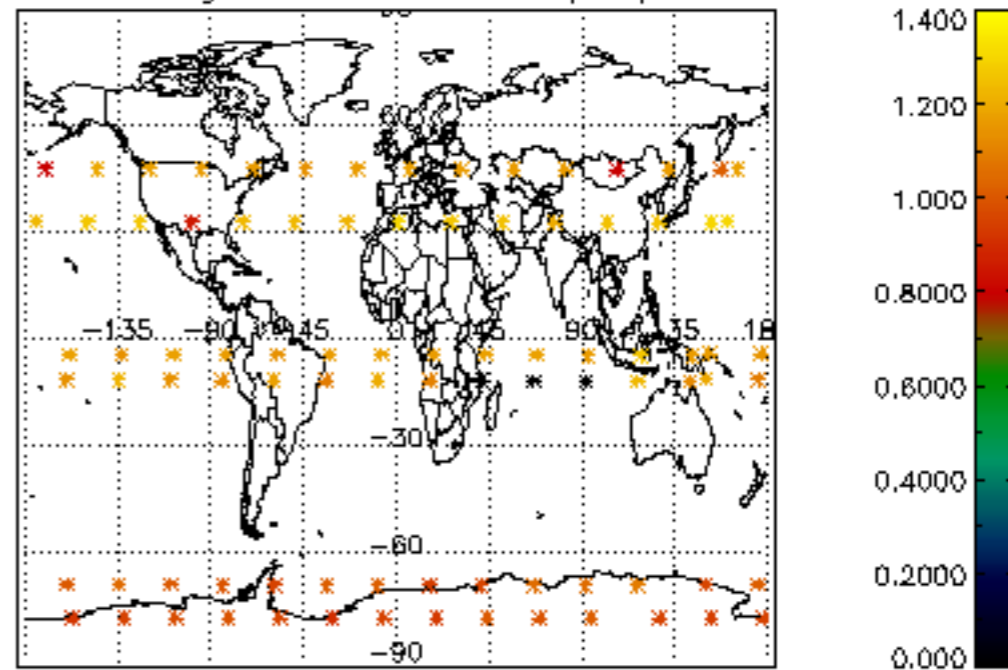
Percentage of saturation errors per profile



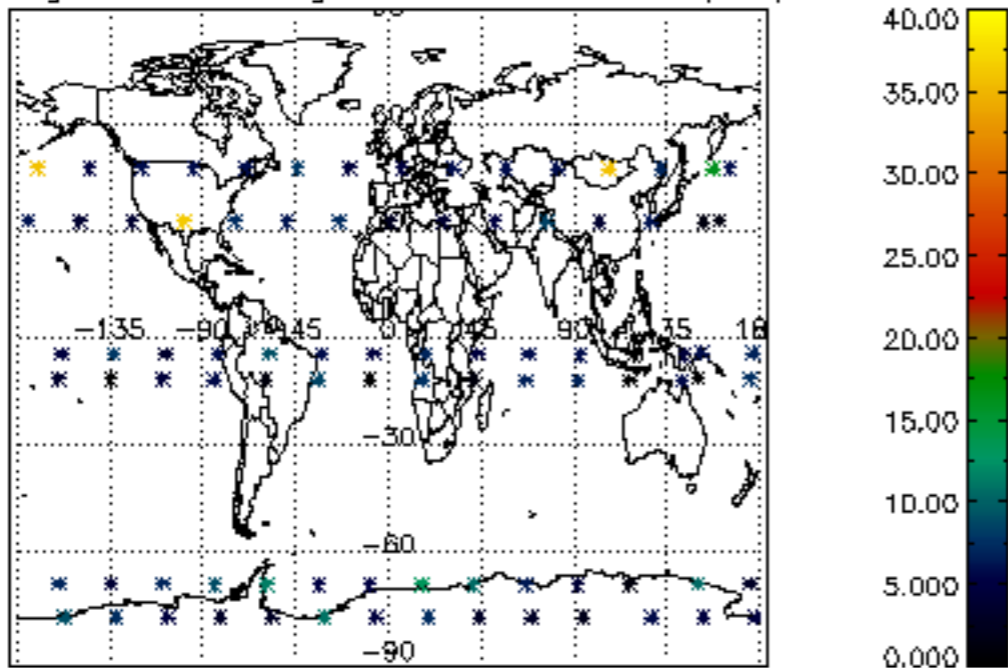
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

