

GOMOS Level 2 Daily Report

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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	29APR2013 15:01:16
Data source version	GOMOS/6.01
Start time of products	05-09-2010 (05SEP2010 00:00:00)
Stop time of products	06-09-2010 (06SEP2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	254
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

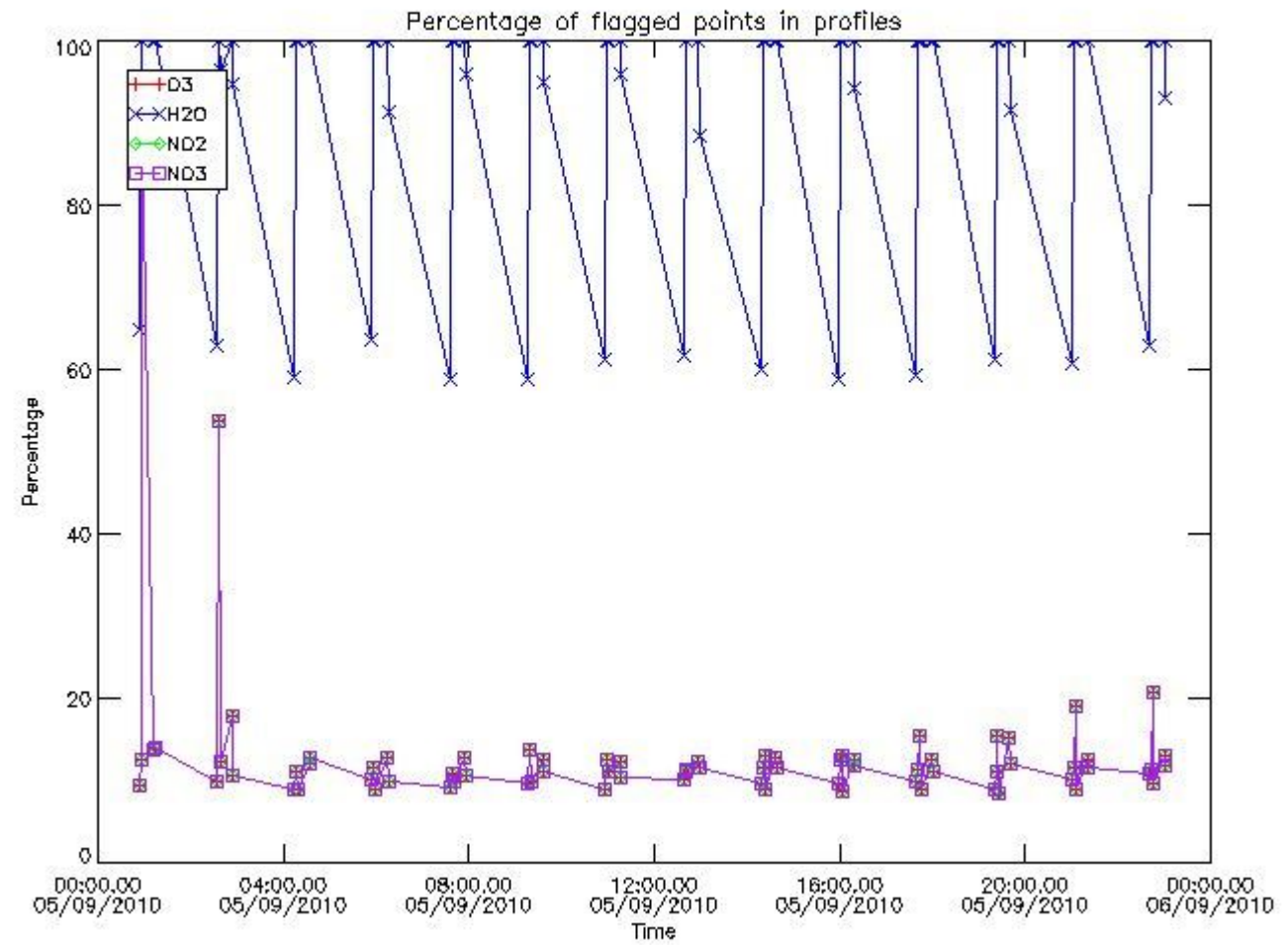
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20100905_000401_000000422092_00374_44516_1863.N1	05-SEP-2010 00:04:01	Bright	41.500	164	44Eta Peg	2.9480	5400.0	83	44516	No
2	GOM_NL__2PRFIN20100905_001434_000000442092_00374_44516_1864.N1	05-SEP-2010 00:14:34	Bright	44.000	74	11Bet Cas	2.2680	6600.0	88	44516	No
3	GOM_NL__2PRFIN20100905_001638_000000462092_00374_44516_1865.N1	05-SEP-2010 00:16:38	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	44516	No
4	GOM_NL__2PRFIN20100905_003542_000000492092_00374_44516_1866.N1	05-SEP-2010 00:35:42	Bright	48.500	107	37The Aur	2.6490	11000.	97	44516	No
5	GOM_NL__2PRFIN20100905_003806_000000402092_00374_44516_1867.N1	05-SEP-2010 00:38:06	Bright	40.000	17	78Bet Gem	1.1610	4500.0	80	44516	No
6	GOM_NL__2PRFIN20100905_004108_000000602092_00374_44516_1868.N1	05-SEP-2010 00:41:08	Twilight	60.000	151	13Mu Gem	2.8900	3000.0	120	44516	No
7	GOM_NL__2PRFIN20100905_004258_000000512092_00374_44516_1869.N1	05-SEP-2010 00:42:58	Twilight	50.500	44	24Gam Gem	1.9280	11000.	101	44516	No
8	GOM_NL__2PRFIN20100905_004455_000000482092_00374_44516_1870.N1	05-SEP-2010 00:44:55	Twilight	47.500	8	10Alp CMi	0.40000	6500.0	95	44516	No
9	GOM_NL__2PRFIN20100905_005253_000000552092_00374_44516_1871.N1	05-SEP-2010 00:52:53	Dark	54.500	1	9Alp CMa	-1.4400	11000.	109	44516	No
10	GOM_NL__2PRFIN20100905_005532_000000452092_00374_44516_1872.N1	05-SEP-2010 00:55:32	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	44516	No
11	GOM_NL__2PRFIN20100905_005734_000000582092_00374_44516_1873.N1	05-SEP-2010 00:57:34	Dark	57.500	101	11Alp Lep	2.5820	7000.0	115	44516	No
12	GOM_NL__2PRFIN20100905_011236_000000412092_00375_44517_1867.N1	05-SEP-2010 01:12:36	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	44517	No
13	GOM_NL__2PRFIN20100905_011355_000000442092_00375_44517_1868.N1	05-SEP-2010 01:13:55	Dark	43.500	9	Alp Eri	0.45300	24000.	87	44517	No
14	GOM_NL__2PRFIN20100905_011951_000000522092_00375_44517_1869.N1	05-SEP-2010 01:19:51	Straylight	52.000	84	Alp Phe	2.3970	4500.0	104	44517	No
15	GOM_NL__2PRFIN20100905_012543_000000492092_00375_44517_1870.N1	05-SEP-2010 01:25:43	Straylight	49.000	18	24Alp PsA	1.1660	9700.0	98	44517	No
16	GOM_NL__2PRFIN20100905_013454_000000402092_00375_44517_1871.N1	05-SEP-2010 01:34:54	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	44517	No
17	GOM_NL__2PRFIN20100905_014023_000000462092_00375_44517_1872.N1	05-SEP-2010 01:40:23	Bright	46.000	90	54Alp Peg	2.4870	11000.	92	44517	No
18	GOM_NL__2PRFIN20100905_014436_000000422092_00375_44517_1873.N1	05-SEP-2010 01:44:36	Bright	42.000	164	44Eta Peg	2.9480	5400.0	84	44517	No
19	GOM_NL__2PRFIN20100905_015509_000000432092_00375_44517_1874.N1	05-SEP-2010 01:55:09	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	44517	No
20	GOM_NL__2PRFIN20100905_015713_000000442092_00375_44517_1875.N1	05-SEP-2010 01:57:13	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	44517	No
21	GOM_NL__2PRFIN20100905_021618_000000492092_00375_44517_1876.N1	05-SEP-2010 02:16:18	Bright	49.000	107	37The Aur	2.6490	11000.	98	44517	No
22	GOM_NL__2PRFIN20100905_021843_000000402092_00375_44517_1877.N1	05-SEP-2010 02:18:43	Bright	40.000	17	78Bet Gem	1.1610	4500.0	80	44517	No
23	GOM_NL__2PRFIN20100905_022144_000000592092_00375_44517_1878.N1	05-SEP-2010 02:21:44	Twilight	58.500	151	13Mu Gem	2.8900	3000.0	117	44517	No
24	GOM_NL__2PRFIN20100905_022334_000000522092_00375_44517_1879.N1	05-SEP-2010 02:23:34	Twilight	51.500	44	24Gam Gem	1.9280	11000.	103	44517	No
25	GOM_NL__2PRFIN20100905_022532_000000522092_00375_44517_1880.N1	05-SEP-2010 02:25:32	Twilight	51.500	8	10Alp CMi	0.40000	6500.0	103	44517	No
26	GOM_NL__2PRFIN20100905_023329_000000522092_00375_44517_1881.N1	05-SEP-2010 02:33:29	Dark	51.500	1	9Alp CMa	-1.4400	11000.	103	44517	No
27	GOM_NL__2PRFIN20100905_023609_000000432092_00375_44517_1882.N1	05-SEP-2010 02:36:09	Dark	42.500	23	21Eps CMa	1.5020	26000.	85	44517	No
28	GOM_NL__2PRFIN20100905_023811_000000582092_00375_44517_1883.N1	05-SEP-2010 02:38:11	Dark	57.500	101	11Alp Lep	2.5820	7000.0	115	44517	No
29	GOM_NL__2PRFIN20100905_025312_000000432092_00376_44518_1877.N1	05-SEP-2010 02:53:12	Dark	42.500	143	Alp Hyi	2.8570	7200.0	85	44518	No
30	GOM_NL__2PRFIN20100905_025432_000000492092_00376_44518_1878.N1	05-SEP-2010 02:54:32	Dark	48.500	9	Alp Eri	0.45300	24000.	97	44518	No
31	GOM_NL__2PRFIN20100905_030028_000000512092_00376_44518_1879.N1	05-SEP-2010 03:00:28	Straylight	51.000	84	Alp Phe	2.3970	4500.0	102	44518	No
32	GOM_NL__2PRFIN20100905_030619_000000452092_00376_44518_1880.N1	05-SEP-2010 03:06:19	Straylight	44.500	18	24Alp PsA	1.1660	9700.0	89	44518	No
33	GOM_NL__2PRFIN20100905_031530_000000402092_00376_44518_1881.N1	05-SEP-2010 03:15:30	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	44518	No
34	GOM_NL__2PRFIN20100905_032059_000000442092_00376_44518_1882.N1	05-SEP-2010 03:20:59	Bright	43.500	90	54Alp Peg	2.4870	11000.	87	44518	No
35	GOM_NL__2PRFIN20100905_032512_000000432092_00376_44518_1883.N1	05-SEP-2010 03:25:12	Bright	42.500	164	44Eta Peg	2.9480	5400.0	85	44518	No
36	GOM_NL__2PRFIN20100905_033544_000000402092_00376_44518_1884.N1	05-SEP-2010 03:35:44	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	44518	No
37	GOM_NL__2PRFIN20100905_033748_000000482092_00376_44518_1885.N1	05-SEP-2010 03:37:48	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	44518	No
38	GOM_NL__2PRFIN20100905_035654_000000512092_00376_44518_1886.N1	05-SEP-2010 03:56:54	Bright	50.500	107	37The Aur	2.6490	11000.	101	44518	No
39	GOM_NL__2PRFIN20100905_035920_000000362092_00376_44518_1887.N1	05-SEP-2010 03:59:20	Bright	36.000	17	78Bet Gem	1.1610	4500.0	72	44518	No
40	GOM_NL__2PRFIN20100905_040221_000000632092_00376_44518_1888.N1	05-SEP-2010 04:02:21	Twilight	62.500	151	13Mu Gem	2.8900	3000.0	125	44518	No
41	GOM_NL__2PRFIN20100905_040410_000000542092_00376_44518_1889.N1	05-SEP-2010 04:04:10	Twilight	54.000	44	24Gam Gem	1.9280	11000.	108	44518	No
42	GOM_NL__2PRFIN20100905_040608_000000562092_00376_44518_1890.N1	05-SEP-2010 04:06:08	Twilight	56.000	8	10Alp CMi	0.40000	6500.0	112	44518	No

220	GOM_NL__2PRFIN20100905_204824_000000672092_00386_44528_2181.N1	05-SEP-2010 20:48:24	Twilight	66.500	151	13Mu Gem	2.8900	3000.0	133	44528	No
221	GOM_NL__2PRFIN20100905_205014_000000552092_00386_44528_2182.N1	05-SEP-2010 20:50:14	Twilight	55.000	44	24Gam Gem	1.9280	11000.	110	44528	No
222	GOM_NL__2PRFIN20100905_205211_000000462092_00386_44528_2183.N1	05-SEP-2010 20:52:11	Twilight	45.500	8	10Alp CMi	0.40000	6500.0	91	44528	No
223	GOM_NL__2PRFIN20100905_210012_000000502092_00386_44528_2184.N1	05-SEP-2010 21:00:12	Dark	50.000	1	9Alp CMa	-1.4400	11000.	100	44528	No
224	GOM_NL__2PRFIN20100905_210251_000000442092_00386_44528_2185.N1	05-SEP-2010 21:02:51	Dark	44.000	23	21Eps CMa	1.5020	26000.	88	44528	No
225	GOM_NL__2PRFIN20100905_210502_000000272092_00386_44528_2186.N1	05-SEP-2010 21:05:02	Dark	27.000	101	11Alp Lep	2.5820	7000.0	54	44528	No
226	GOM_NL__2PRFIN20100905_210603_000000572092_00386_44528_2187.N1	05-SEP-2010 21:06:03	Dark	56.500	139	9Bet Lep	2.8330	5600.0	113	44528	No
227	GOM_NL__2PRFIN20100905_211953_000000412092_00387_44529_2200.N1	05-SEP-2010 21:19:53	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	44529	No
228	GOM_NL__2PRFIN20100905_212114_000000442092_00387_44529_2201.N1	05-SEP-2010 21:21:14	Dark	44.000	9	Alp Eri	0.45300	24000.	88	44529	No
229	GOM_NL__2PRFIN20100905_212709_000000452092_00387_44529_2202.N1	05-SEP-2010 21:27:09	Straylight	44.500	84	Alp Phe	2.3970	4500.0	89	44529	No
230	GOM_NL__2PRFIN20100905_213257_000000452092_00387_44529_2203.N1	05-SEP-2010 21:32:57	Straylight	45.000	18	24Alp PsA	1.1660	9700.0	90	44529	No
231	GOM_NL__2PRFIN20100905_214205_000000392092_00387_44529_2204.N1	05-SEP-2010 21:42:05	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	44529	No
232	GOM_NL__2PRFIN20100905_214730_000000452092_00387_44529_2205.N1	05-SEP-2010 21:47:30	Bright	45.000	90	54Alp Peg	2.4870	11000.	90	44529	No
233	GOM_NL__2PRFIN20100905_215143_000000392092_00387_44529_2206.N1	05-SEP-2010 21:51:43	Bright	39.000	164	44Eta Peg	2.9480	5400.0	78	44529	No
234	GOM_NL__2PRFIN20100905_220213_000000442092_00387_44529_2207.N1	05-SEP-2010 22:02:13	Bright	44.000	74	11Bet Cas	2.2680	6600.0	88	44529	No
235	GOM_NL__2PRFIN20100905_220416_000000452092_00387_44529_2208.N1	05-SEP-2010 22:04:16	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	44529	No
236	GOM_NL__2PRFIN20100905_222029_000000512092_00387_44529_2209.N1	05-SEP-2010 22:20:29	Bright	50.500	42	34Bet Aur	1.9000	10200.	101	44529	No
237	GOM_NL__2PRFIN20100905_222329_000000332092_00387_44529_2210.N1	05-SEP-2010 22:23:29	Twilight	33.000	107	37The Aur	2.6490	11000.	66	44529	No
238	GOM_NL__2PRFIN20100905_222451_000000402092_00387_44529_2211.N1	05-SEP-2010 22:24:51	Bright	40.000	24	66Alp Gem	1.5800	10200.	80	44529	No
239	GOM_NL__2PRFIN20100905_222900_000000672092_00387_44529_2212.N1	05-SEP-2010 22:29:00	Twilight	67.000	151	13Mu Gem	2.8900	3000.0	134	44529	No
240	GOM_NL__2PRFIN20100905_223051_000000532092_00387_44529_2213.N1	05-SEP-2010 22:30:51	Twilight	53.000	44	24Gam Gem	1.9280	11000.	106	44529	No
241	GOM_NL__2PRFIN20100905_223247_000000472092_00387_44529_2214.N1	05-SEP-2010 22:32:47	Twilight	47.000	8	10Alp CMi	0.40000	6500.0	94	44529	No
242	GOM_NL__2PRFIN20100905_224049_000000482092_00387_44529_2215.N1	05-SEP-2010 22:40:49	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	44529	No
243	GOM_NL__2PRFIN20100905_224327_000000452092_00387_44529_2216.N1	05-SEP-2010 22:43:27	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	44529	No
244	GOM_NL__2PRFIN20100905_224539_000000272092_00387_44529_2217.N1	05-SEP-2010 22:45:39	Dark	27.000	101	11Alp Lep	2.5820	7000.0	54	44529	No
245	GOM_NL__2PRFIN20100905_224640_000000592092_00387_44529_2218.N1	05-SEP-2010 22:46:40	Dark	58.500	139	9Bet Lep	2.8330	5600.0	117	44529	No
246	GOM_NL__2PRFIN20100905_230030_000000392092_00388_44530_2215.N1	05-SEP-2010 23:00:30	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	44530	No
247	GOM_NL__2PRFIN20100905_230150_000000432092_00388_44530_2216.N1	05-SEP-2010 23:01:50	Dark	43.000	9	Alp Eri	0.45300	24000.	86	44530	No
248	GOM_NL__2PRFIN20100905_230745_000000552092_00388_44530_2217.N1	05-SEP-2010 23:07:45	Straylight	54.500	84	Alp Phe	2.3970	4500.0	109	44530	No
249	GOM_NL__2PRFIN20100905_231333_000000452092_00388_44530_2218.N1	05-SEP-2010 23:13:33	Straylight	45.000	18	24Alp PsA	1.1660	9700.0	90	44530	No
250	GOM_NL__2PRFIN20100905_232241_000000392092_00388_44530_2219.N1	05-SEP-2010 23:22:41	Bright	38.500	162	34Alp Aqr	2.9440	5350.0	77	44530	No
251	GOM_NL__2PRFIN20100905_232805_000000442092_00388_44530_2220.N1	05-SEP-2010 23:28:05	Bright	44.000	90	54Alp Peg	2.4870	11000.	88	44530	No
252	GOM_NL__2PRFIN20100905_233218_000000442092_00388_44530_2221.N1	05-SEP-2010 23:32:18	Bright	43.500	164	44Eta Peg	2.9480	5400.0	87	44530	No
253	GOM_NL__2PRFIN20100905_234248_000000452092_00388_44530_2222.N1	05-SEP-2010 23:42:48	Bright	44.500	74	11Bet Cas	2.2680	6600.0	89	44530	No
254	GOM_NL__2PRFIN20100905_234451_000000432092_00388_44530_2223.N1	05-SEP-2010 23:44:51	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	44530	No

3. Quality information per product

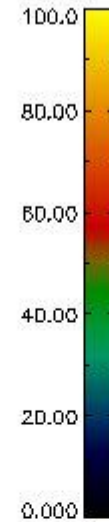
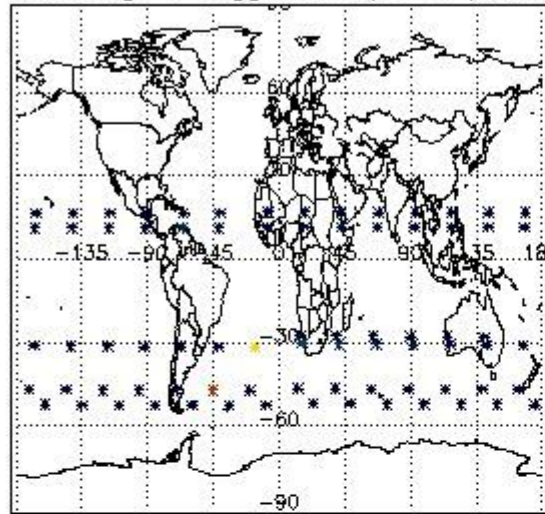
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

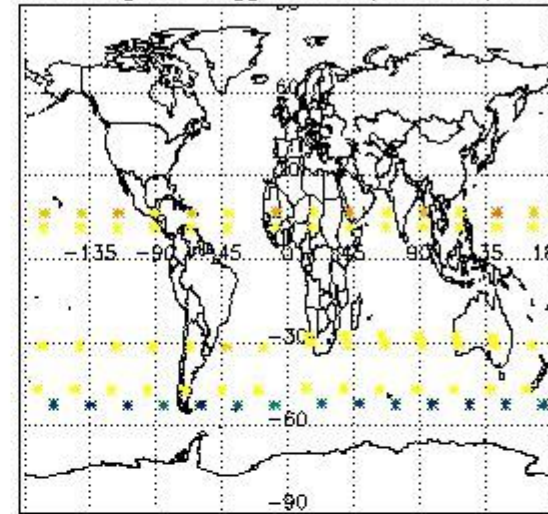


3.2 Plot quality information per product (world map)

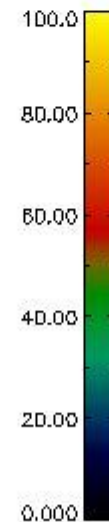
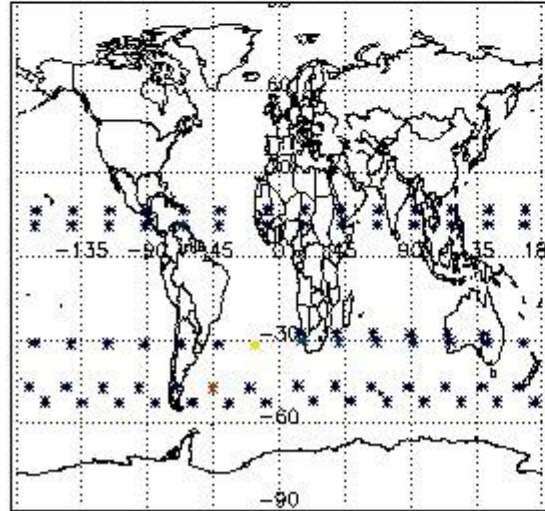
Percentage of flagged data per O3 profile



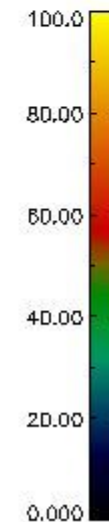
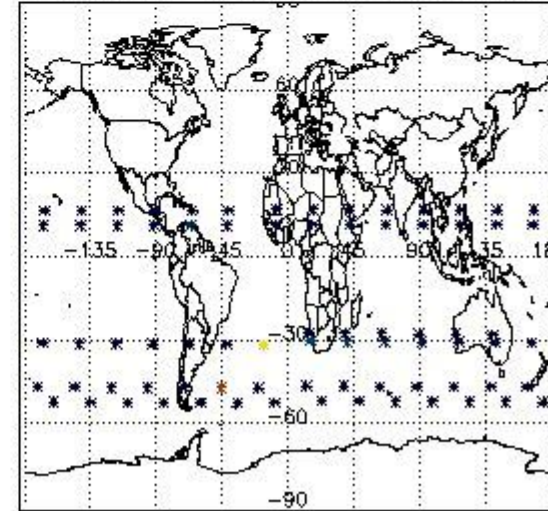
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

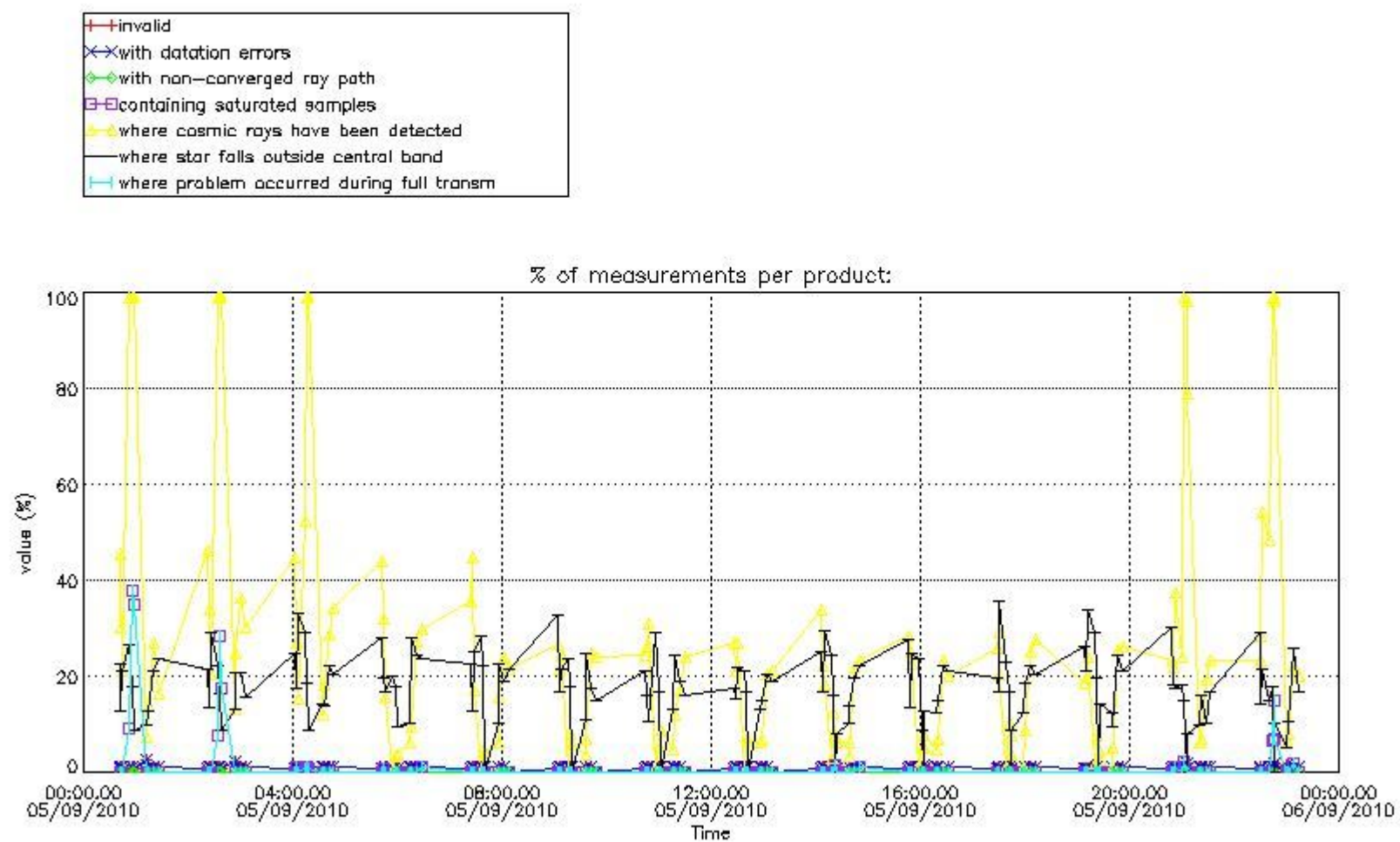


4. Level 1 quality information per product

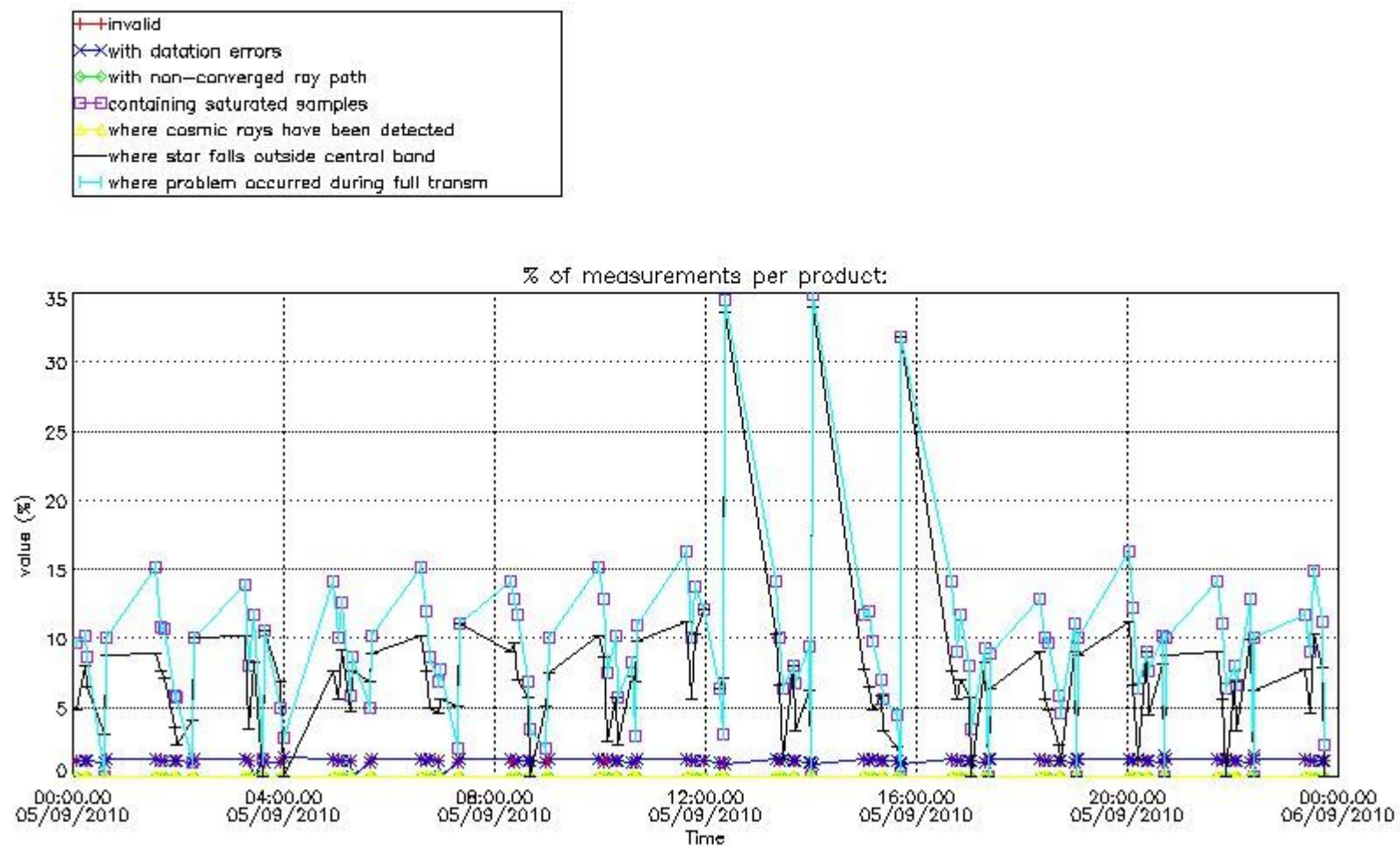
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

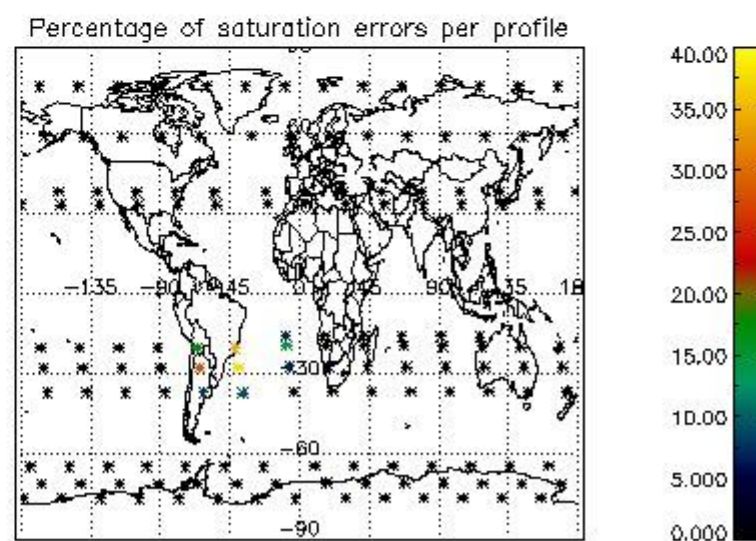
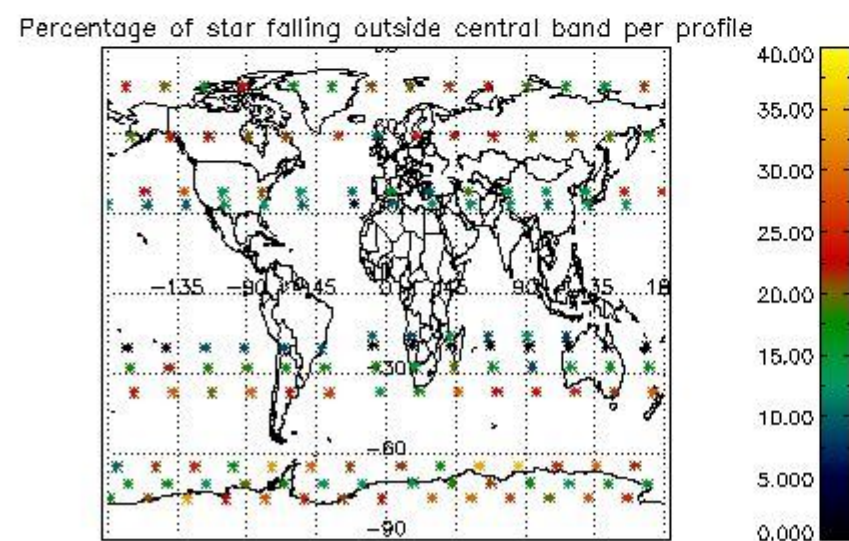
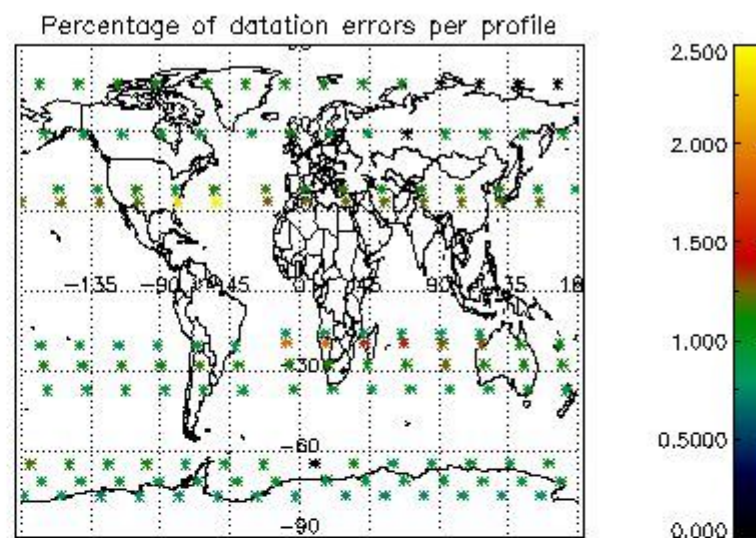
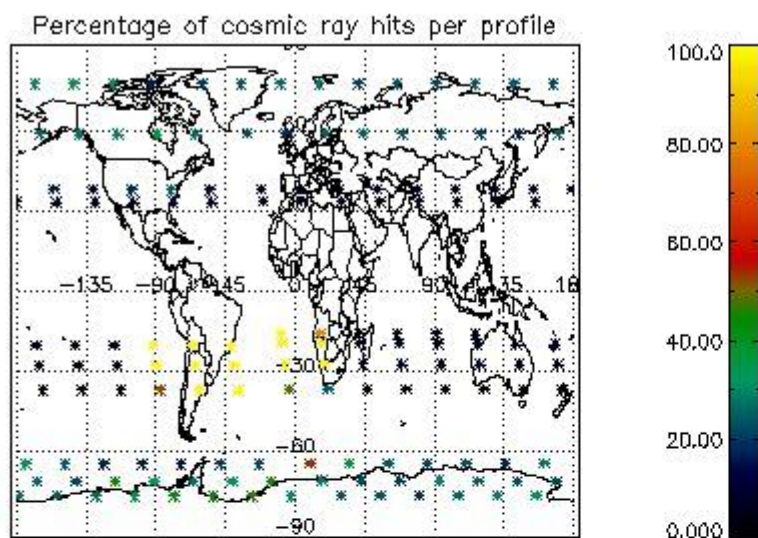


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

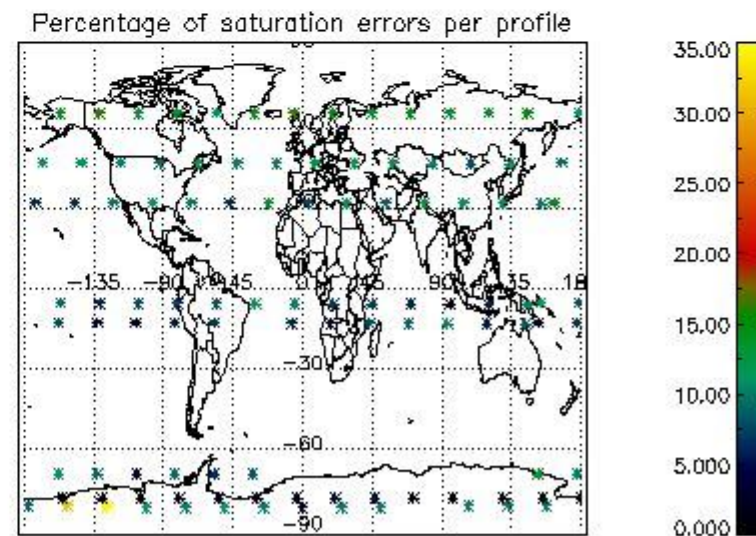
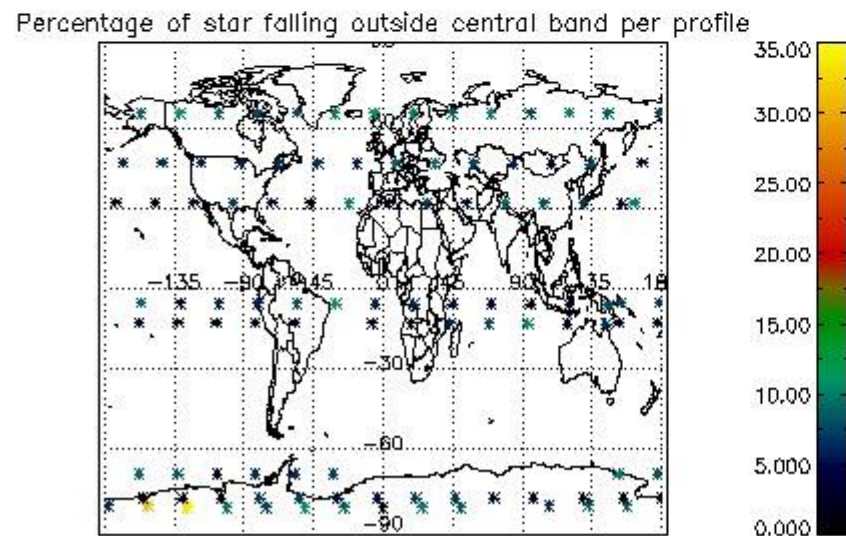
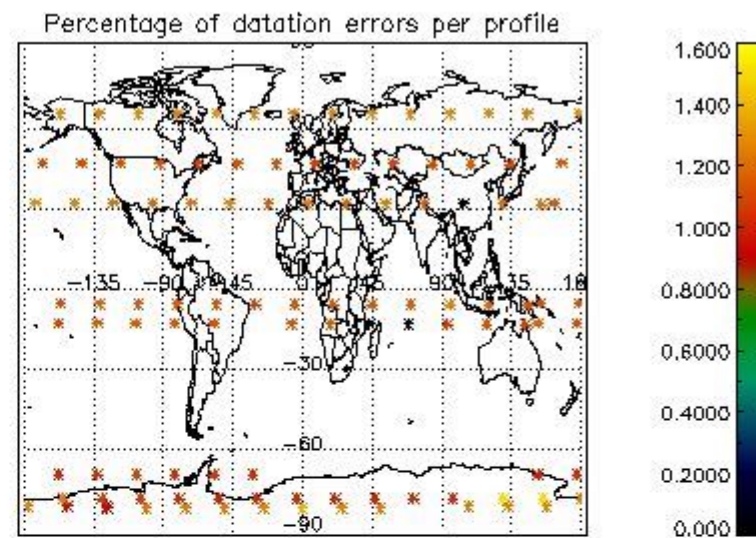
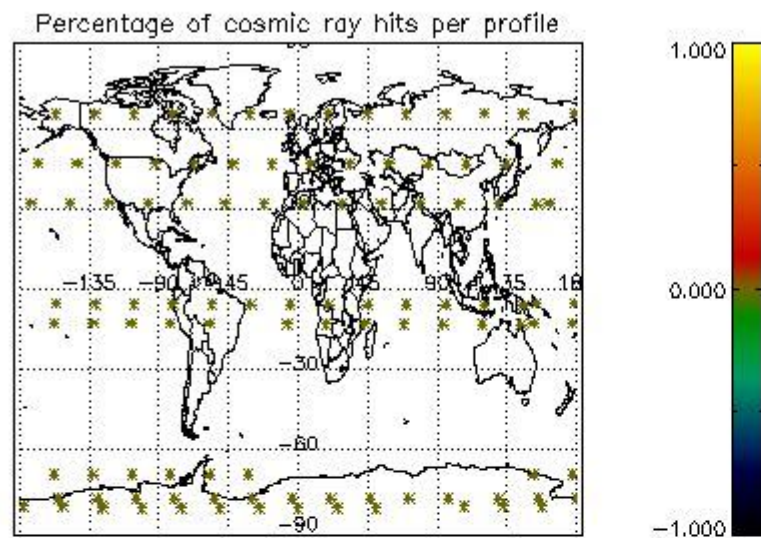


4.2 Plot quality information per product coming from level 1b processing (world map)

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

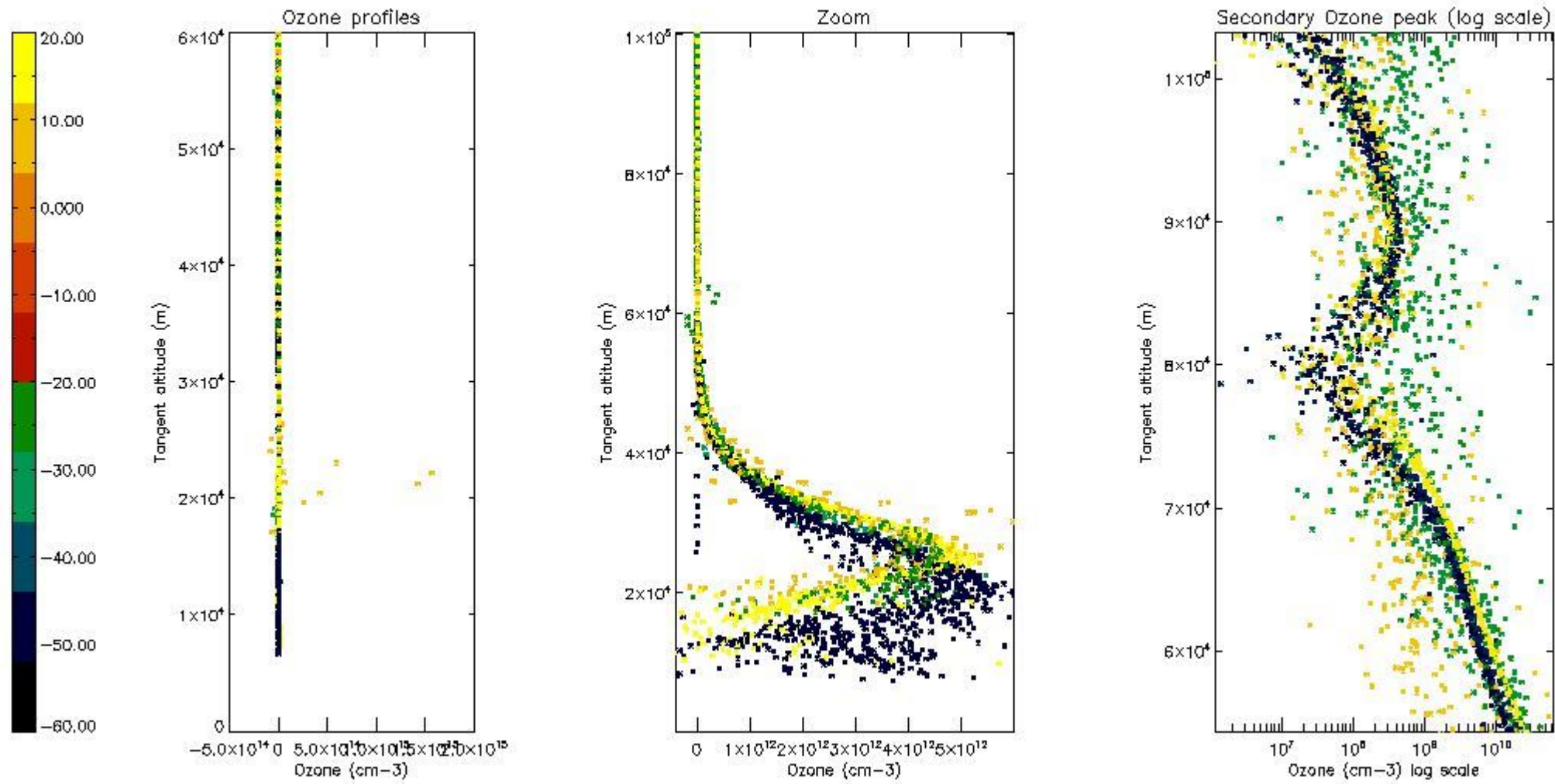
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	30
STD < 20	16

STD < 10	13
STD < 5	9

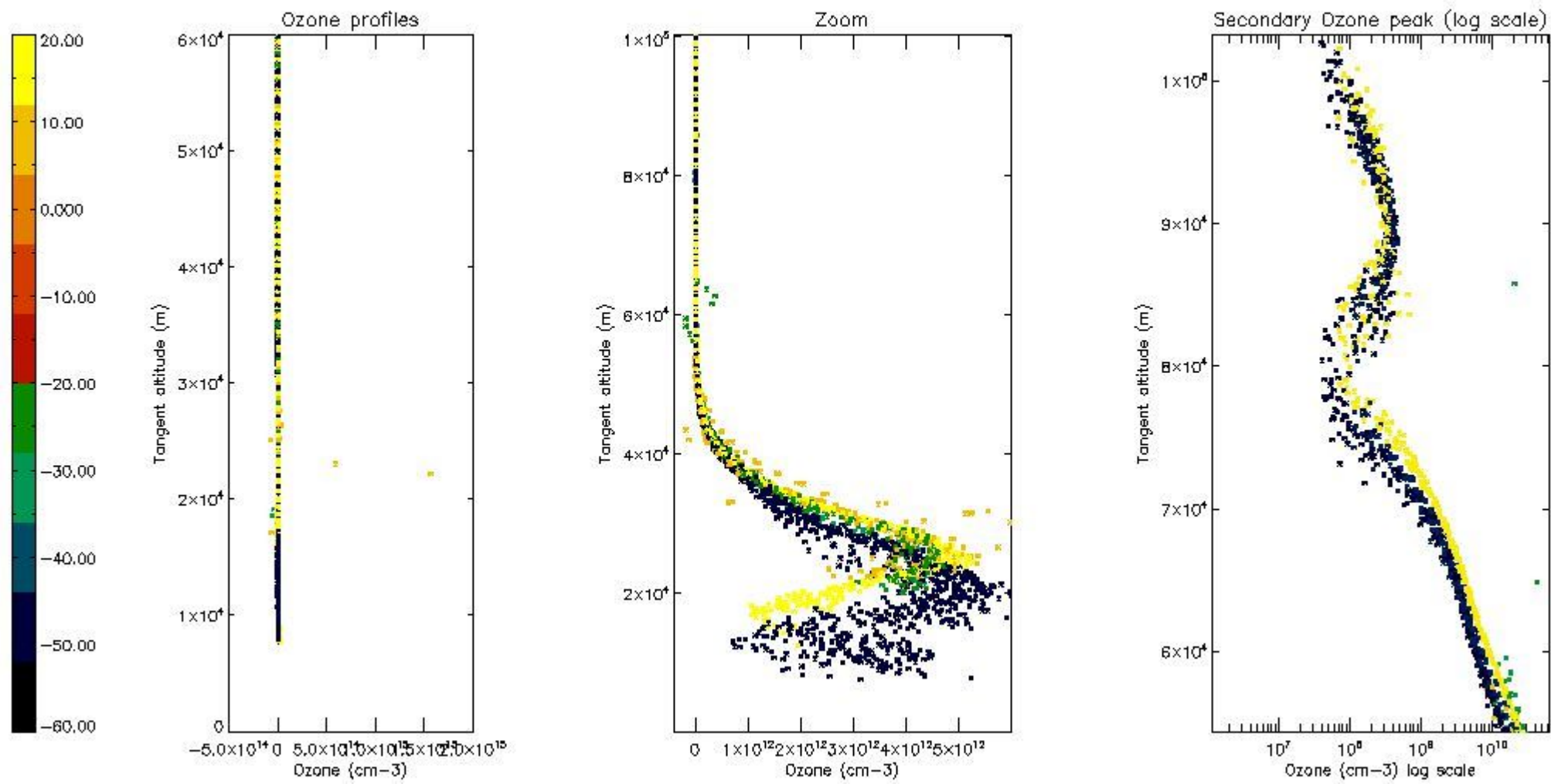
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



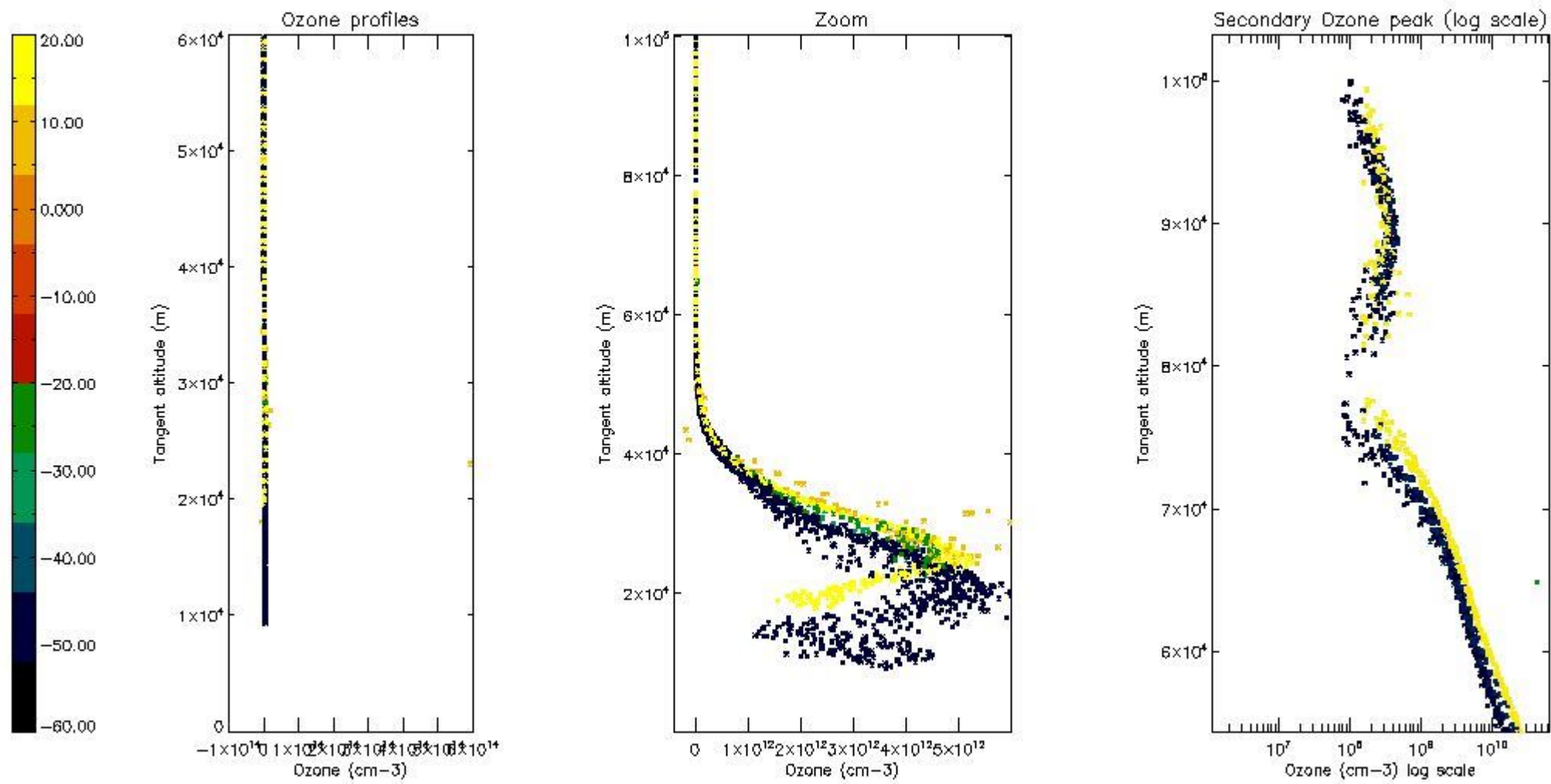
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



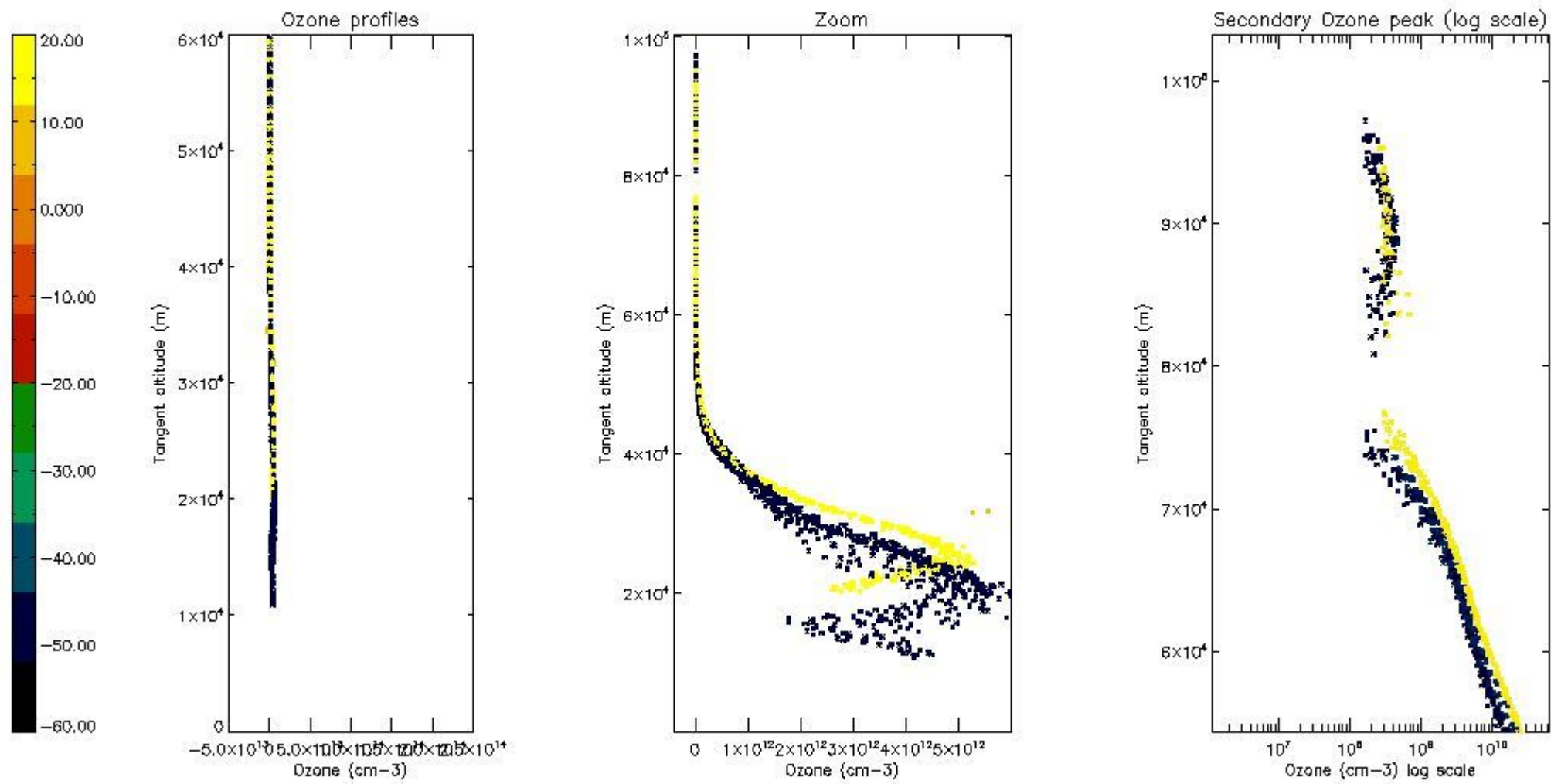
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



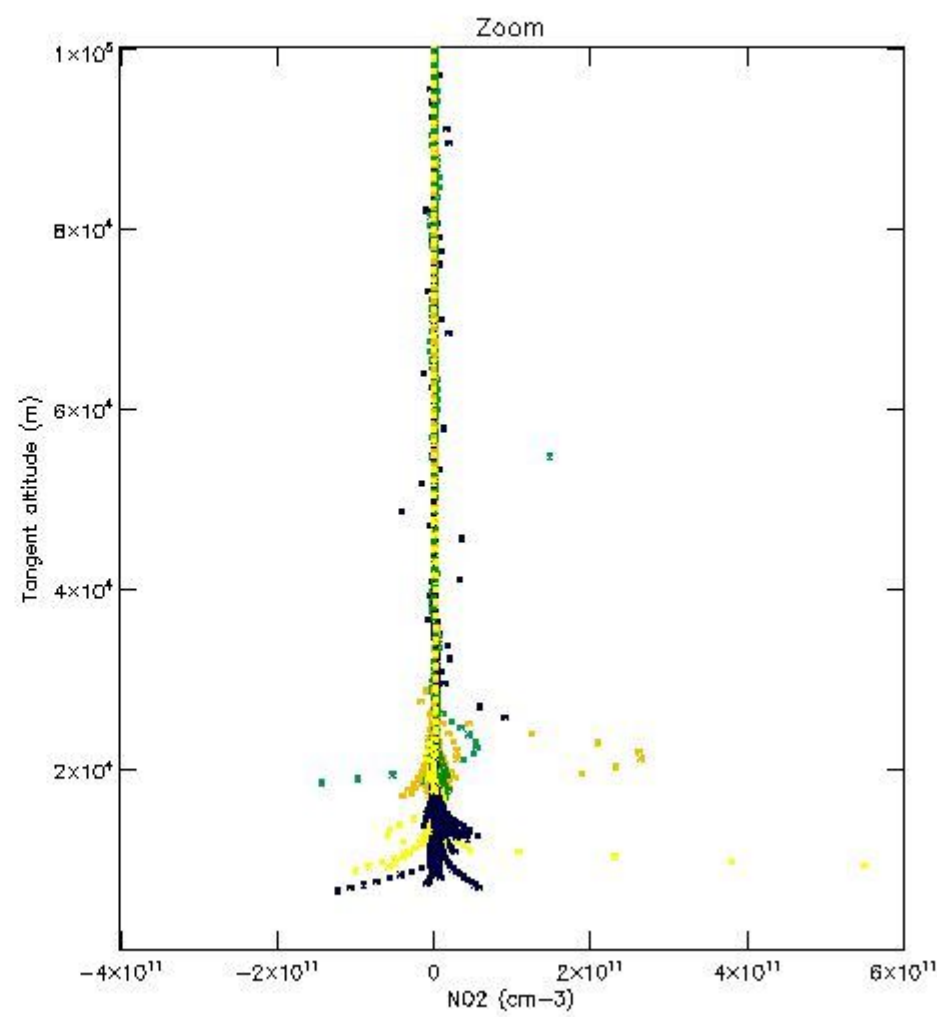
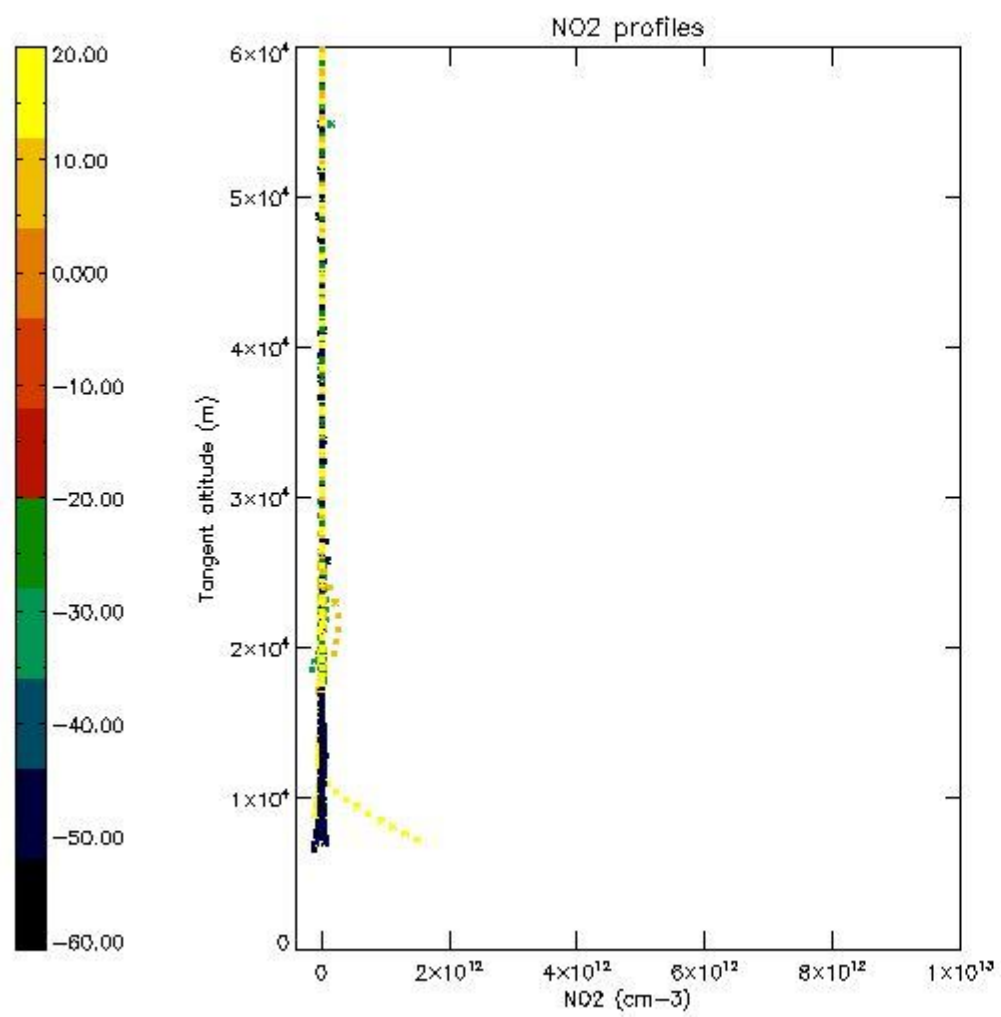
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



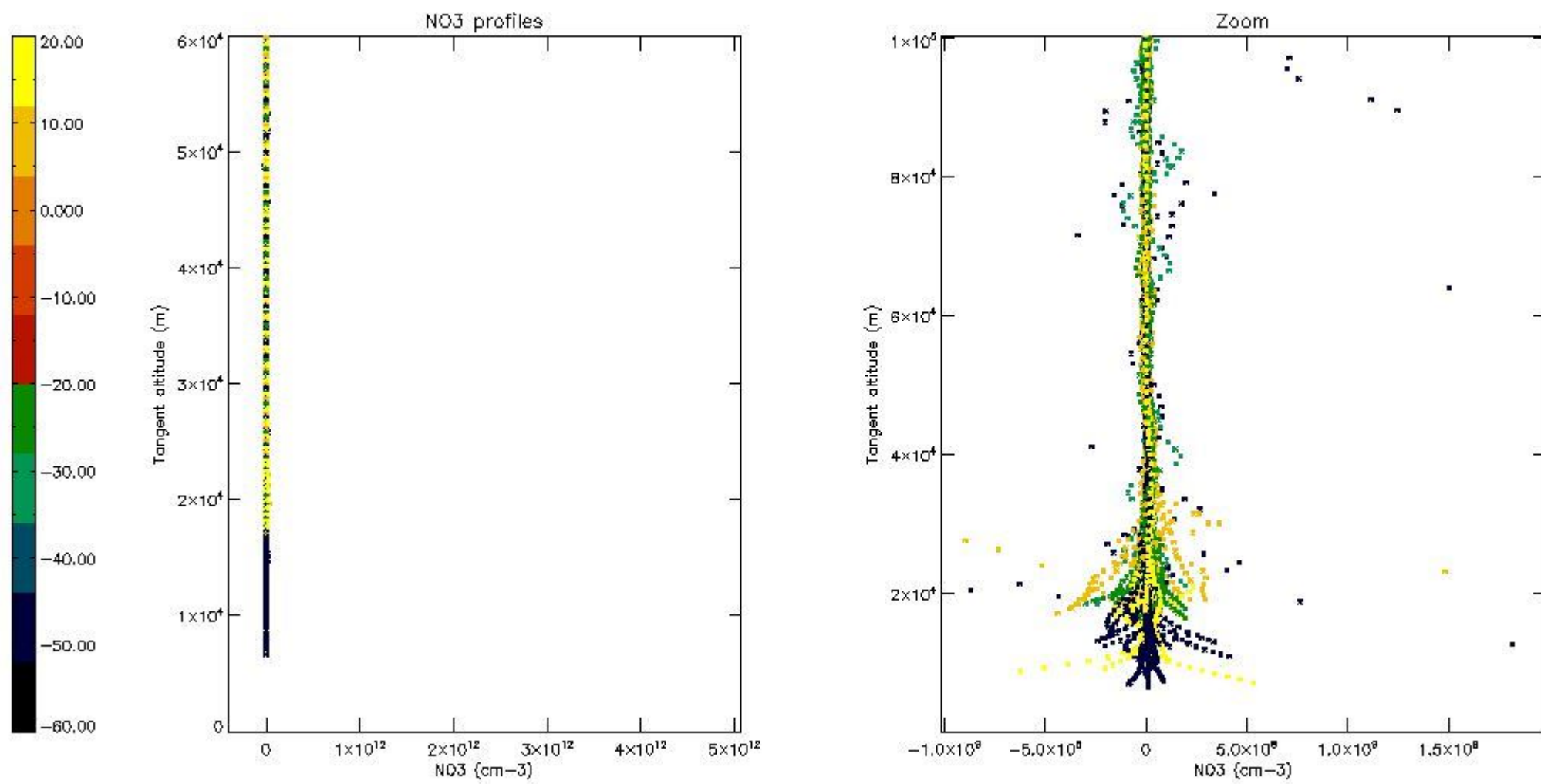
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



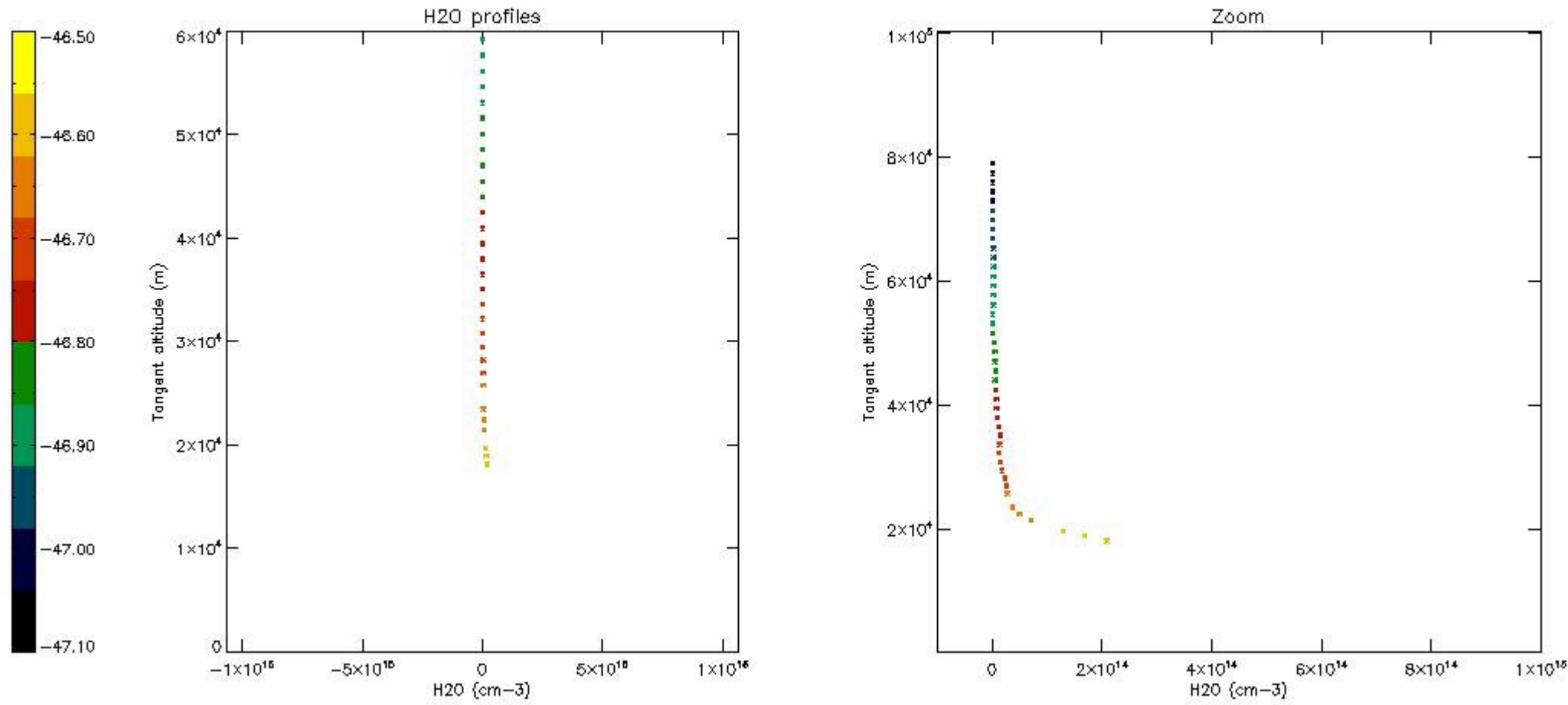
5.7 Plot NO3 profiles for all STD (dark without errors)

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	05-SEP-2010 00:04:01
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	05-SEP-2010 00:04:01
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	05-SEP-2010 00:04:01

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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

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[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

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

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

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

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

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

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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	29APR2013 15:01:16
Data source version	GOMOS/6.01
Start time of products	05-09-2010 (05SEP2010 00:00:00)
Stop time of products	06-09-2010 (06SEP2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	254
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__2PRFIN20100905_000401_000000422092_00374_44516_1863.N1	05-SEP-2010 00:04:01	Bright	41.500	164	44Eta Peg	2.9480	5400.0	83	44516	No
2	GOM_NL__2PRFIN20100905_001434_000000442092_00374_44516_1864.N1	05-SEP-2010 00:14:34	Bright	44.000	74	11Bet Cas	2.2680	6600.0	88	44516	No
3	GOM_NL__2PRFIN20100905_001638_000000462092_00374_44516_1865.N1	05-SEP-2010 00:16:38	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	44516	No
4	GOM_NL__2PRFIN20100905_003542_000000492092_00374_44516_1866.N1	05-SEP-2010 00:35:42	Bright	48.500	107	37The Aur	2.6490	11000.	97	44516	No
5	GOM_NL__2PRFIN20100905_003806_000000402092_00374_44516_1867.N1	05-SEP-2010 00:38:06	Bright	40.000	17	78Bet Gem	1.1610	4500.0	80	44516	No
6	GOM_NL__2PRFIN20100905_004108_000000602092_00374_44516_1868.N1	05-SEP-2010 00:41:08	Twilight	60.000	151	13Mu Gem	2.8900	3000.0	120	44516	No
7	GOM_NL__2PRFIN20100905_004258_000000512092_00374_44516_1869.N1	05-SEP-2010 00:42:58	Twilight	50.500	44	24Gam Gem	1.9280	11000.	101	44516	No
8	GOM_NL__2PRFIN20100905_004455_000000482092_00374_44516_1870.N1	05-SEP-2010 00:44:55	Twilight	47.500	8	10Alp CMi	0.40000	6500.0	95	44516	No
9	GOM_NL__2PRFIN20100905_005253_000000552092_00374_44516_1871.N1	05-SEP-2010 00:52:53	Dark	54.500	1	9Alp CMa	-1.4400	11000.	109	44516	No
10	GOM_NL__2PRFIN20100905_005532_000000452092_00374_44516_1872.N1	05-SEP-2010 00:55:32	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	44516	No
11	GOM_NL__2PRFIN20100905_005734_000000582092_00374_44516_1873.N1	05-SEP-2010 00:57:34	Dark	57.500	101	11Alp Lep	2.5820	7000.0	115	44516	No
12	GOM_NL__2PRFIN20100905_011236_000000412092_00375_44517_1867.N1	05-SEP-2010 01:12:36	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	44517	No
13	GOM_NL__2PRFIN20100905_011355_000000442092_00375_44517_1868.N1	05-SEP-2010 01:13:55	Dark	43.500	9	Alp Eri	0.45300	24000.	87	44517	No
14	GOM_NL__2PRFIN20100905_011951_000000522092_00375_44517_1869.N1	05-SEP-2010 01:19:51	Straylight	52.000	84	Alp Phe	2.3970	4500.0	104	44517	No
15	GOM_NL__2PRFIN20100905_012543_000000492092_00375_44517_1870.N1	05-SEP-2010 01:25:43	Straylight	49.000	18	24Alp PsA	1.1660	9700.0	98	44517	No
16	GOM_NL__2PRFIN20100905_013454_000000402092_00375_44517_1871.N1	05-SEP-2010 01:34:54	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	44517	No
17	GOM_NL__2PRFIN20100905_014023_000000462092_00375_44517_1872.N1	05-SEP-2010 01:40:23	Bright	46.000	90	54Alp Peg	2.4870	11000.	92	44517	No
18	GOM_NL__2PRFIN20100905_014436_000000422092_00375_44517_1873.N1	05-SEP-2010 01:44:36	Bright	42.000	164	44Eta Peg	2.9480	5400.0	84	44517	No
19	GOM_NL__2PRFIN20100905_015509_000000432092_00375_44517_1874.N1	05-SEP-2010 01:55:09	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	44517	No
20	GOM_NL__2PRFIN20100905_015713_000000442092_00375_44517_1875.N1	05-SEP-2010 01:57:13	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	44517	No
21	GOM_NL__2PRFIN20100905_021618_000000492092_00375_44517_1876.N1	05-SEP-2010 02:16:18	Bright	49.000	107	37The Aur	2.6490	11000.	98	44517	No
22	GOM_NL__2PRFIN20100905_021843_000000402092_00375_44517_1877.N1	05-SEP-2010 02:18:43	Bright	40.000	17	78Bet Gem	1.1610	4500.0	80	44517	No
23	GOM_NL__2PRFIN20100905_022144_000000592092_00375_44517_1878.N1	05-SEP-2010 02:21:44	Twilight	58.500	151	13Mu Gem	2.8900	3000.0	117	44517	No
24	GOM_NL__2PRFIN20100905_022334_000000522092_00375_44517_1879.N1	05-SEP-2010 02:23:34	Twilight	51.500	44	24Gam Gem	1.9280	11000.	103	44517	No
25	GOM_NL__2PRFIN20100905_022532_000000522092_00375_44517_1880.N1	05-SEP-2010 02:25:32	Twilight	51.500	8	10Alp CMi	0.40000	6500.0	103	44517	No
26	GOM_NL__2PRFIN20100905_023329_000000522092_00375_44517_1881.N1	05-SEP-2010 02:33:29	Dark	51.500	1	9Alp CMa	-1.4400	11000.	103	44517	No
27	GOM_NL__2PRFIN20100905_023609_000000432092_00375_44517_1882.N1	05-SEP-2010 02:36:09	Dark	42.500	23	21Eps CMa	1.5020	26000.	85	44517	No
28	GOM_NL__2PRFIN20100905_023811_000000582092_00375_44517_1883.N1	05-SEP-2010 02:38:11	Dark	57.500	101	11Alp Lep	2.5820	7000.0	115	44517	No
29	GOM_NL__2PRFIN20100905_025312_000000432092_00376_44518_1877.N1	05-SEP-2010 02:53:12	Dark	42.500	143	Alp Hyi	2.8570	7200.0	85	44518	No
30	GOM_NL__2PRFIN20100905_025432_000000492092_00376_44518_1878.N1	05-SEP-2010 02:54:32	Dark	48.500	9	Alp Eri	0.45300	24000.	97	44518	No
31	GOM_NL__2PRFIN20100905_030028_000000512092_00376_44518_1879.N1	05-SEP-2010 03:00:28	Straylight	51.000	84	Alp Phe	2.3970	4500.0	102	44518	No
32	GOM_NL__2PRFIN20100905_030619_000000452092_00376_44518_1880.N1	05-SEP-2010 03:06:19	Straylight	44.500	18	24Alp PsA	1.1660	9700.0	89	44518	No
33	GOM_NL__2PRFIN20100905_031530_000000402092_00376_44518_1881.N1	05-SEP-2010 03:15:30	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	44518	No
34	GOM_NL__2PRFIN20100905_032059_000000442092_00376_44518_1882.N1	05-SEP-2010 03:20:59	Bright	43.500	90	54Alp Peg	2.4870	11000.	87	44518	No
35	GOM_NL__2PRFIN20100905_032512_000000432092_00376_44518_1883.N1	05-SEP-2010 03:25:12	Bright	42.500	164	44Eta Peg	2.9480	5400.0	85	44518	No
36	GOM_NL__2PRFIN20100905_033544_000000402092_00376_44518_1884.N1	05-SEP-2010 03:35:44	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	44518	No
37	GOM_NL__2PRFIN20100905_033748_000000482092_00376_44518_1885.N1	05-SEP-2010 03:37:48	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	44518	No
38	GOM_NL__2PRFIN20100905_035654_000000512092_00376_44518_1886.N1	05-SEP-2010 03:56:54	Bright	50.500	107	37The Aur	2.6490	11000.	101	44518	No
39	GOM_NL__2PRFIN20100905_035920_000000362092_00376_44518_1887.N1	05-SEP-2010 03:59:20	Bright	36.000	17	78Bet Gem	1.1610	4500.0	72	44518	No
40	GOM_NL__2PRFIN20100905_040221_000000632092_00376_44518_1888.N1	05-SEP-2010 04:02:21	Twilight	62.500	151	13Mu Gem	2.8900	3000.0	125	44518	No
41	GOM_NL__2PRFIN20100905_040410_000000542092_00376_44518_1889.N1	05-SEP-2010 04:04:10	Twilight	54.000	44	24Gam Gem	1.9280	11000.	108	44518	No
42	GOM_NL__2PRFIN20100905_040608_000000562092_00376_44518_1890.N1	05-SEP-2010 04:06:08	Twilight	56.000	8	10Alp CMi	0.40000	6500.0	112	44518	No

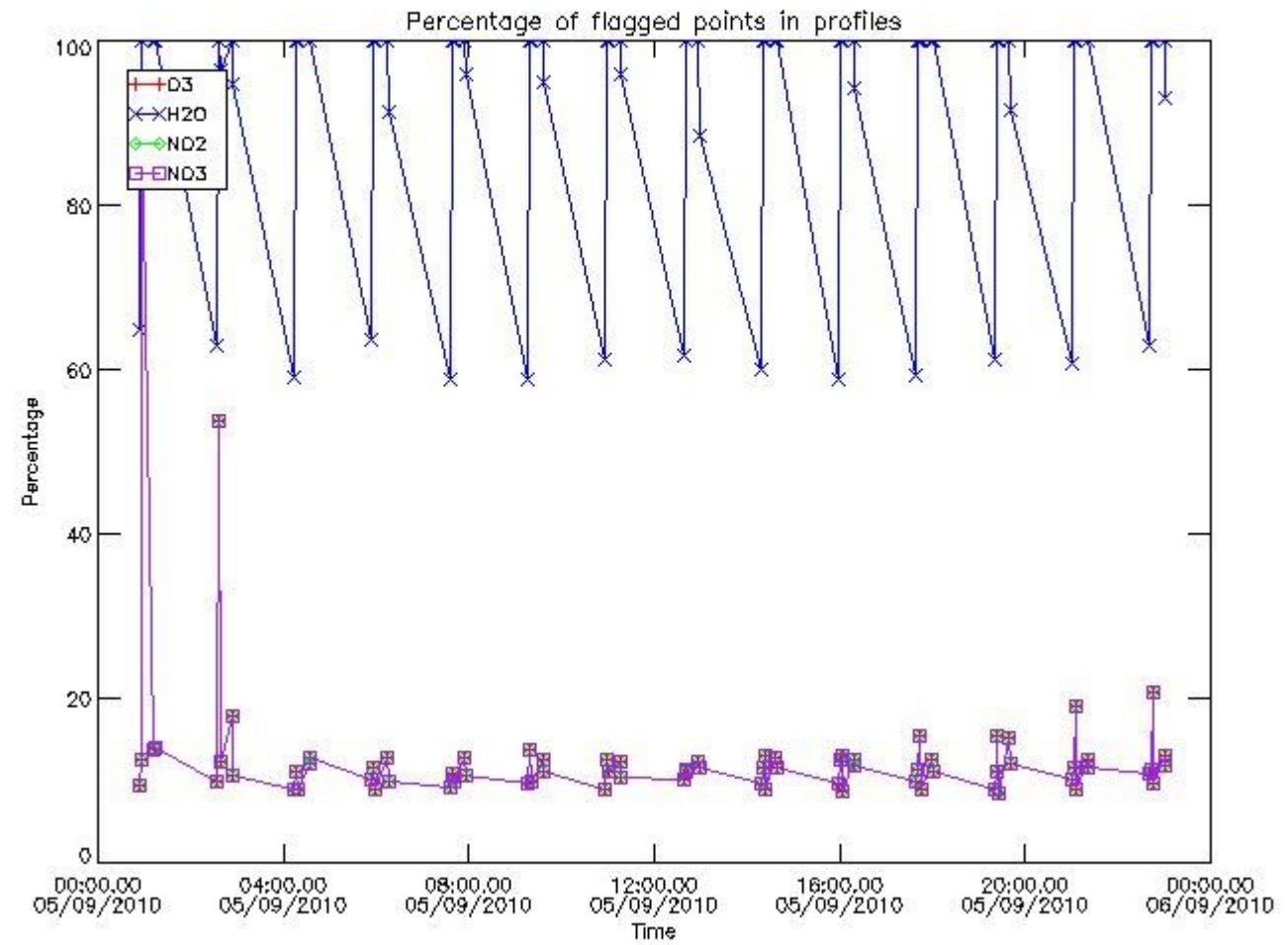
43	GOM_NL__2PRFIN20100905_041406_000000572092_00376_44518_1891.N1	05-SEP-2010 04:14:06	Dark	56.500	1	9Alp CMa	-1.4400	11000.	113	44518	No
44	GOM_NL__2PRFIN20100905_041645_000000462092_00376_44518_1892.N1	05-SEP-2010 04:16:45	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	44518	No
45	GOM_NL__2PRFIN20100905_041848_000000582092_00376_44518_1893.N1	05-SEP-2010 04:18:48	Dark	57.500	101	11Alp Lep	2.5820	7000.0	115	44518	No
46	GOM_NL__2PRFIN20100905_043348_000000422092_00377_44519_1888.N1	05-SEP-2010 04:33:48	Dark	42.000	143	Alp Hyi	2.8570	7200.0	84	44519	No
47	GOM_NL__2PRFIN20100905_043508_000000442092_00377_44519_1889.N1	05-SEP-2010 04:35:08	Dark	44.000	9	Alp Eri	0.45300	24000.	88	44519	No
48	GOM_NL__2PRFIN20100905_044104_000000522092_00377_44519_1890.N1	05-SEP-2010 04:41:04	Straylight	52.000	84	Alp Phe	2.3970	4500.0	104	44519	No
49	GOM_NL__2PRFIN20100905_044655_000000472092_00377_44519_1891.N1	05-SEP-2010 04:46:55	Straylight	47.000	18	24Alp PsA	1.1660	9700.0	94	44519	No
50	GOM_NL__2PRFIN20100905_045606_000000392092_00377_44519_1892.N1	05-SEP-2010 04:56:06	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	44519	No
51	GOM_NL__2PRFIN20100905_050134_000000452092_00377_44519_1893.N1	05-SEP-2010 05:01:34	Bright	45.000	90	54Alp Peg	2.4870	11000.	90	44519	No
52	GOM_NL__2PRFIN20100905_050547_000000442092_00377_44519_1894.N1	05-SEP-2010 05:05:47	Bright	43.500	164	44Eta Peg	2.9480	5400.0	87	44519	No
53	GOM_NL__2PRFIN20100905_051620_000000432092_00377_44519_1895.N1	05-SEP-2010 05:16:20	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	44519	No
54	GOM_NL__2PRFIN20100905_051823_000000462092_00377_44519_1896.N1	05-SEP-2010 05:18:23	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	44519	No
55	GOM_NL__2PRFIN20100905_053730_000000512092_00377_44519_1897.N1	05-SEP-2010 05:37:30	Bright	50.500	107	37The Aur	2.6490	11000.	101	44519	No
56	GOM_NL__2PRFIN20100905_053955_000000402092_00377_44519_1898.N1	05-SEP-2010 05:39:55	Bright	39.500	17	78Bet Gem	1.1610	4500.0	79	44519	No
57	GOM_NL__2PRFIN20100905_054257_000000662092_00377_44519_1899.N1	05-SEP-2010 05:42:57	Twilight	66.000	151	13Mu Gem	2.8900	3000.0	132	44519	No
58	GOM_NL__2PRFIN20100905_054447_000000562092_00377_44519_1900.N1	05-SEP-2010 05:44:47	Twilight	56.000	44	24Gam Gem	1.9280	11000.	112	44519	No
59	GOM_NL__2PRFIN20100905_054644_000000452092_00377_44519_1901.N1	05-SEP-2010 05:46:44	Twilight	44.500	8	10Alp CMI	0.40000	6500.0	89	44519	No
60	GOM_NL__2PRFIN20100905_055443_000000502092_00377_44519_1902.N1	05-SEP-2010 05:54:43	Dark	50.000	1	9Alp CMa	-1.4400	11000.	100	44519	No
61	GOM_NL__2PRFIN20100905_055722_000000452092_00377_44519_1903.N1	05-SEP-2010 05:57:22	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	44519	No
62	GOM_NL__2PRFIN20100905_055926_000000582092_00377_44519_1904.N1	05-SEP-2010 05:59:26	Dark	57.500	101	11Alp Lep	2.5820	7000.0	115	44519	No
63	GOM_NL__2PRFIN20100905_061425_000000402092_00378_44520_1899.N1	05-SEP-2010 06:14:25	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	44520	No
64	GOM_NL__2PRFIN20100905_061545_000000522092_00378_44520_1900.N1	05-SEP-2010 06:15:45	Dark	52.000	9	Alp Eri	0.45300	24000.	104	44520	No
65	GOM_NL__2PRFIN20100905_062141_000000542092_00378_44520_1901.N1	05-SEP-2010 06:21:41	Straylight	53.500	84	Alp Phe	2.3970	4500.0	107	44520	No
66	GOM_NL__2PRFIN20100905_062731_000000492092_00378_44520_1902.N1	05-SEP-2010 06:27:31	Straylight	48.500	18	24Alp PsA	1.1660	9700.0	97	44520	No
67	GOM_NL__2PRFIN20100905_063642_000000402092_00378_44520_1903.N1	05-SEP-2010 06:36:42	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	44520	No
68	GOM_NL__2PRFIN20100905_064210_000000462092_00378_44520_1904.N1	05-SEP-2010 06:42:10	Bright	46.000	90	54Alp Peg	2.4870	11000.	92	44520	No
69	GOM_NL__2PRFIN20100905_064623_000000412092_00378_44520_1905.N1	05-SEP-2010 06:46:23	Bright	40.500	164	44Eta Peg	2.9480	5400.0	81	44520	No
70	GOM_NL__2PRFIN20100905_065655_000000442092_00378_44520_1906.N1	05-SEP-2010 06:56:55	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	44520	No
71	GOM_NL__2PRFIN20100905_065859_000000452092_00378_44520_1907.N1	05-SEP-2010 06:58:59	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	44520	No
72	GOM_NL__2PRFIN20100905_071806_000000492092_00378_44520_1908.N1	05-SEP-2010 07:18:06	Bright	49.000	107	37The Aur	2.6490	11000.	98	44520	No
73	GOM_NL__2PRFIN20100905_072031_000000412092_00378_44520_1909.N1	05-SEP-2010 07:20:31	Bright	40.500	17	78Bet Gem	1.1610	4500.0	81	44520	No
74	GOM_NL__2PRFIN20100905_072333_000000622092_00378_44520_1910.N1	05-SEP-2010 07:23:33	Twilight	62.000	151	13Mu Gem	2.8900	3000.0	124	44520	No
75	GOM_NL__2PRFIN20100905_072523_000000522092_00378_44520_1911.N1	05-SEP-2010 07:25:23	Twilight	51.500	44	24Gam Gem	1.9280	11000.	103	44520	No
76	GOM_NL__2PRFIN20100905_072721_000000502092_00378_44520_1912.N1	05-SEP-2010 07:27:21	Twilight	50.000	8	10Alp CMI	0.40000	6500.0	100	44520	No
77	GOM_NL__2PRFIN20100905_073519_000000552092_00378_44520_1913.N1	05-SEP-2010 07:35:19	Dark	55.000	1	9Alp CMa	-1.4400	11000.	110	44520	No
78	GOM_NL__2PRFIN20100905_073758_000000482092_00378_44520_1914.N1	05-SEP-2010 07:37:58	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	44520	No
79	GOM_NL__2PRFIN20100905_074003_000000522092_00378_44520_1915.N1	05-SEP-2010 07:40:03	Dark	52.000	101	11Alp Lep	2.5820	7000.0	104	44520	No
80	GOM_NL__2PRFIN20100905_075502_000000402092_00379_44521_1948.N1	05-SEP-2010 07:55:02	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	44521	No
81	GOM_NL__2PRFIN20100905_075622_000000492092_00379_44521_1949.N1	05-SEP-2010 07:56:22	Dark	48.500	9	Alp Eri	0.45300	24000.	97	44521	No
82	GOM_NL__2PRFIN20100905_080217_000000502092_00379_44521_1950.N1	05-SEP-2010 08:02:17	Straylight	50.000	84	Alp Phe	2.3970	4500.0	100	44521	No
83	GOM_NL__2PRFIN20100905_080807_000000472092_00379_44521_1951.N1	05-SEP-2010 08:08:07	Straylight	46.500	18	24Alp PsA	1.1660	9700.0	93	44521	No
84	GOM_NL__2PRFIN20100905_081718_000000392092_00379_44521_1952.N1	05-SEP-2010 08:17:18	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	44521	No
85	GOM_NL__2PRFIN20100905_082246_000000472092_00379_44521_1953.N1	05-SEP-2010 08:22:46	Bright	46.500	90	54Alp Peg	2.4870	11000.	93	44521	No
86	GOM_NL__2PRFIN20100905_082659_000000432092_00379_44521_1954.N1	05-SEP-2010 08:26:59	Bright	42.500	164	44Eta Peg	2.9480	5400.0	85	44521	No
87	GOM_NL__2PRFIN20100905_083730_000000442092_00379_44521_1955.N1	05-SEP-2010 08:37:30	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	44521	No
88	GOM_NL__2PRFIN20100905_083934_000000432092_00379_44521_1956.N1	05-SEP-2010 08:39:34	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	44521	No
89	GOM_NL__2PRFIN20100905_085842_000000502092_00379_44521_1957.N1	05-SEP-2010 08:58:42	Bright	49.500	107	37The Aur	2.6490	11000.	99	44521	No
90	GOM_NL__2PRFIN20100905_090107_000000402092_00379_44521_1958.N1	05-SEP-2010 09:01:07	Bright	40.000	17	78Bet Gem	1.1610	4500.0	80	44521	No
91	GOM_NL__2PRFIN20100905_090410_000000702092_00379_44521_1959.N1	05-SEP-2010 09:04:10	Twilight	70.000	151	13Mu Gem	2.8900	3000.0	140	44521	No
92	GOM_NL__2PRFIN20100905_090600_000000542092_00379_44521_1960.N1	05-SEP-2010 09:06:00	Twilight	54.000	44	24Gam Gem	1.9280	11000.	108	44521	No
93	GOM_NL__2PRFIN20100905_090757_000000472092_00379_44521_1961.N1	05-SEP-2010 09:07:57	Twilight	47.000	8	10Alp CMI	0.40000	6500.0	94	44521	No
94	GOM_NL__2PRFIN20100905_091556_000000532092_00379_44521_1962.N1	05-SEP-2010 09:15:56	Dark	52.500	1	9Alp CMa	-1.4400	11000.	105	44521	No
95	GOM_NL__2PRFIN20100905_091835_000000452092_00379_44521_1963.N1	05-SEP-2010 09:18:35	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	44521	No
96	GOM_NL__2PRFIN20100905_092041_000000522092_00379_44521_1964.N1	05-SEP-2010 09:20:41	Dark	52.000	101	11Alp Lep	2.5820	7000.0	104	44521	No
97	GOM_NL__2PRFIN20100905_093538_000000412092_00380_44522_1981.N1	05-SEP-2010 09:35:38	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	44522	No
98	GOM_NL__2PRFIN20100905_093658_000000512092_00380_44522_1982.N1	05-SEP-2010 09:36:58	Dark	50.500	9	Alp Eri	0.45300	24000.	101	44522	No
99	GOM_NL__2PRFIN20100905_094254_000000492092_00380_44522_1983.N1	05-SEP-2010 09:42:54	Straylight	48.500	84	Alp Phe	2.3970	4500.0	97	44522	No
100	GOM_NL__2PRFIN20100905_094844_000000442092_00380_44522_1984.N1	05-SEP-2010 09:48:44	Straylight	43.500	18	24Alp PsA	1.1660	9700.0	87	44522	No
101	GOM_NL__2PRFIN20100905_095754_000000402092_00380_44522_1985.N1	05-SEP-2010 09:57:54	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	44522	No

220	GOM_NL__2PRFIN20100905_204824_000000672092_00386_44528_2181.N1	05-SEP-2010 20:48:24	Twilight	66.500	151	13Mu Gem	2.8900	3000.0	133	44528	No
221	GOM_NL__2PRFIN20100905_205014_000000552092_00386_44528_2182.N1	05-SEP-2010 20:50:14	Twilight	55.000	44	24Gam Gem	1.9280	11000.	110	44528	No
222	GOM_NL__2PRFIN20100905_205211_000000462092_00386_44528_2183.N1	05-SEP-2010 20:52:11	Twilight	45.500	8	10Alp CMi	0.40000	6500.0	91	44528	No
223	GOM_NL__2PRFIN20100905_210012_000000502092_00386_44528_2184.N1	05-SEP-2010 21:00:12	Dark	50.000	1	9Alp CMa	-1.4400	11000.	100	44528	No
224	GOM_NL__2PRFIN20100905_210251_000000442092_00386_44528_2185.N1	05-SEP-2010 21:02:51	Dark	44.000	23	21Eps CMa	1.5020	26000.	88	44528	No
225	GOM_NL__2PRFIN20100905_210502_000000272092_00386_44528_2186.N1	05-SEP-2010 21:05:02	Dark	27.000	101	11Alp Lep	2.5820	7000.0	54	44528	No
226	GOM_NL__2PRFIN20100905_210603_000000572092_00386_44528_2187.N1	05-SEP-2010 21:06:03	Dark	56.500	139	9Bet Lep	2.8330	5600.0	113	44528	No
227	GOM_NL__2PRFIN20100905_211953_000000412092_00387_44529_2200.N1	05-SEP-2010 21:19:53	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	44529	No
228	GOM_NL__2PRFIN20100905_212114_000000442092_00387_44529_2201.N1	05-SEP-2010 21:21:14	Dark	44.000	9	Alp Eri	0.45300	24000.	88	44529	No
229	GOM_NL__2PRFIN20100905_212709_000000452092_00387_44529_2202.N1	05-SEP-2010 21:27:09	Straylight	44.500	84	Alp Phe	2.3970	4500.0	89	44529	No
230	GOM_NL__2PRFIN20100905_213257_000000452092_00387_44529_2203.N1	05-SEP-2010 21:32:57	Straylight	45.000	18	24Alp PsA	1.1660	9700.0	90	44529	No
231	GOM_NL__2PRFIN20100905_214205_000000392092_00387_44529_2204.N1	05-SEP-2010 21:42:05	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	44529	No
232	GOM_NL__2PRFIN20100905_214730_000000452092_00387_44529_2205.N1	05-SEP-2010 21:47:30	Bright	45.000	90	54Alp Peg	2.4870	11000.	90	44529	No
233	GOM_NL__2PRFIN20100905_215143_000000392092_00387_44529_2206.N1	05-SEP-2010 21:51:43	Bright	39.000	164	44Eta Peg	2.9480	5400.0	78	44529	No
234	GOM_NL__2PRFIN20100905_220213_000000442092_00387_44529_2207.N1	05-SEP-2010 22:02:13	Bright	44.000	74	11Bet Cas	2.2680	6600.0	88	44529	No
235	GOM_NL__2PRFIN20100905_220416_000000452092_00387_44529_2208.N1	05-SEP-2010 22:04:16	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	44529	No
236	GOM_NL__2PRFIN20100905_222029_000000512092_00387_44529_2209.N1	05-SEP-2010 22:20:29	Bright	50.500	42	34Bet Aur	1.9000	10200.	101	44529	No
237	GOM_NL__2PRFIN20100905_222329_000000332092_00387_44529_2210.N1	05-SEP-2010 22:23:29	Twilight	33.000	107	37The Aur	2.6490	11000.	66	44529	No
238	GOM_NL__2PRFIN20100905_222451_000000402092_00387_44529_2211.N1	05-SEP-2010 22:24:51	Bright	40.000	24	66Alp Gem	1.5800	10200.	80	44529	No
239	GOM_NL__2PRFIN20100905_222900_000000672092_00387_44529_2212.N1	05-SEP-2010 22:29:00	Twilight	67.000	151	13Mu Gem	2.8900	3000.0	134	44529	No
240	GOM_NL__2PRFIN20100905_223051_000000532092_00387_44529_2213.N1	05-SEP-2010 22:30:51	Twilight	53.000	44	24Gam Gem	1.9280	11000.	106	44529	No
241	GOM_NL__2PRFIN20100905_223247_000000472092_00387_44529_2214.N1	05-SEP-2010 22:32:47	Twilight	47.000	8	10Alp CMi	0.40000	6500.0	94	44529	No
242	GOM_NL__2PRFIN20100905_224049_000000482092_00387_44529_2215.N1	05-SEP-2010 22:40:49	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	44529	No
243	GOM_NL__2PRFIN20100905_224327_000000452092_00387_44529_2216.N1	05-SEP-2010 22:43:27	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	44529	No
244	GOM_NL__2PRFIN20100905_224539_000000272092_00387_44529_2217.N1	05-SEP-2010 22:45:39	Dark	27.000	101	11Alp Lep	2.5820	7000.0	54	44529	No
245	GOM_NL__2PRFIN20100905_224640_000000592092_00387_44529_2218.N1	05-SEP-2010 22:46:40	Dark	58.500	139	9Bet Lep	2.8330	5600.0	117	44529	No
246	GOM_NL__2PRFIN20100905_230030_000000392092_00388_44530_2215.N1	05-SEP-2010 23:00:30	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	44530	No
247	GOM_NL__2PRFIN20100905_230150_000000432092_00388_44530_2216.N1	05-SEP-2010 23:01:50	Dark	43.000	9	Alp Eri	0.45300	24000.	86	44530	No
248	GOM_NL__2PRFIN20100905_230745_000000552092_00388_44530_2217.N1	05-SEP-2010 23:07:45	Straylight	54.500	84	Alp Phe	2.3970	4500.0	109	44530	No
249	GOM_NL__2PRFIN20100905_231333_000000452092_00388_44530_2218.N1	05-SEP-2010 23:13:33	Straylight	45.000	18	24Alp PsA	1.1660	9700.0	90	44530	No
250	GOM_NL__2PRFIN20100905_232241_000000392092_00388_44530_2219.N1	05-SEP-2010 23:22:41	Bright	38.500	162	34Alp Aqr	2.9440	5350.0	77	44530	No
251	GOM_NL__2PRFIN20100905_232805_000000442092_00388_44530_2220.N1	05-SEP-2010 23:28:05	Bright	44.000	90	54Alp Peg	2.4870	11000.	88	44530	No
252	GOM_NL__2PRFIN20100905_233218_000000442092_00388_44530_2221.N1	05-SEP-2010 23:32:18	Bright	43.500	164	44Eta Peg	2.9480	5400.0	87	44530	No
253	GOM_NL__2PRFIN20100905_234248_000000452092_00388_44530_2222.N1	05-SEP-2010 23:42:48	Bright	44.500	74	11Bet Cas	2.2680	6600.0	89	44530	No
254	GOM_NL__2PRFIN20100905_234451_000000432092_00388_44530_2223.N1	05-SEP-2010 23:44:51	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	44530	No

3. Quality information per product

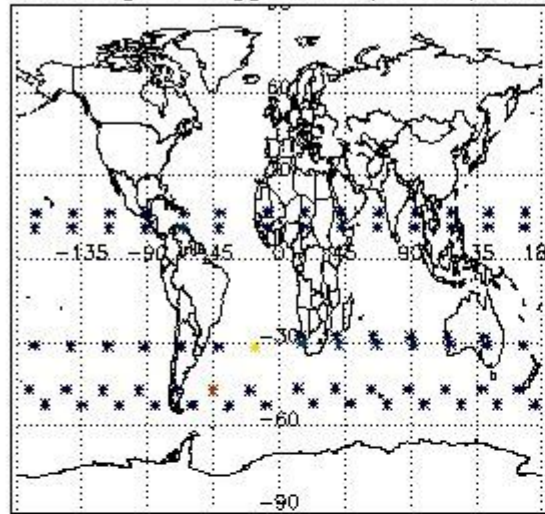
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

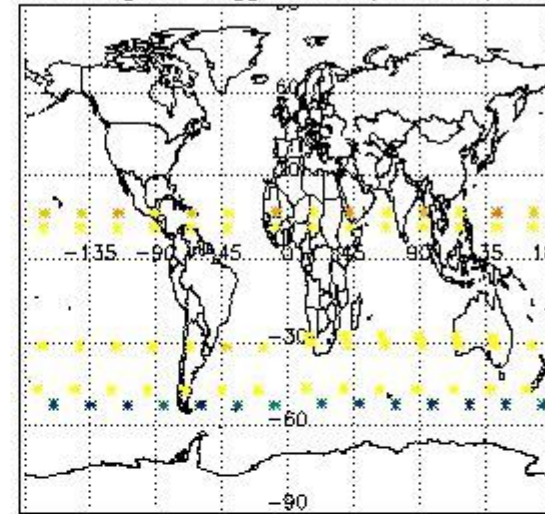


3.2 Plot quality information per product (world map)

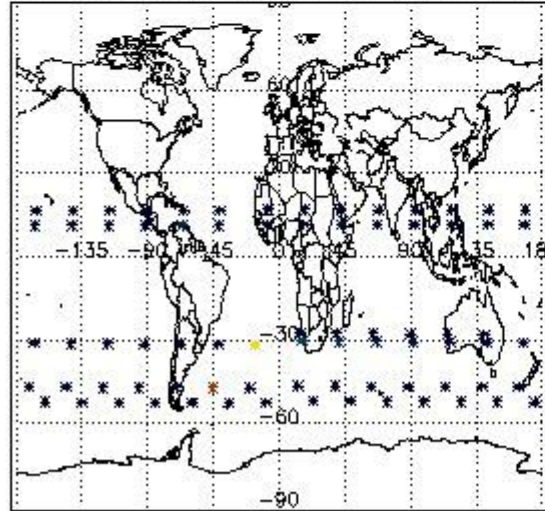
Percentage of flagged data per O3 profile



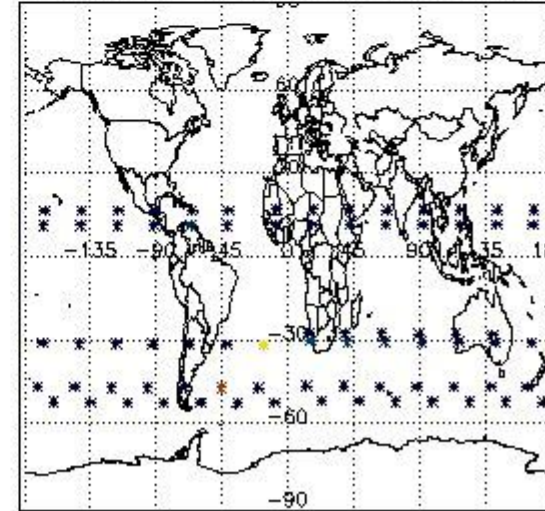
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

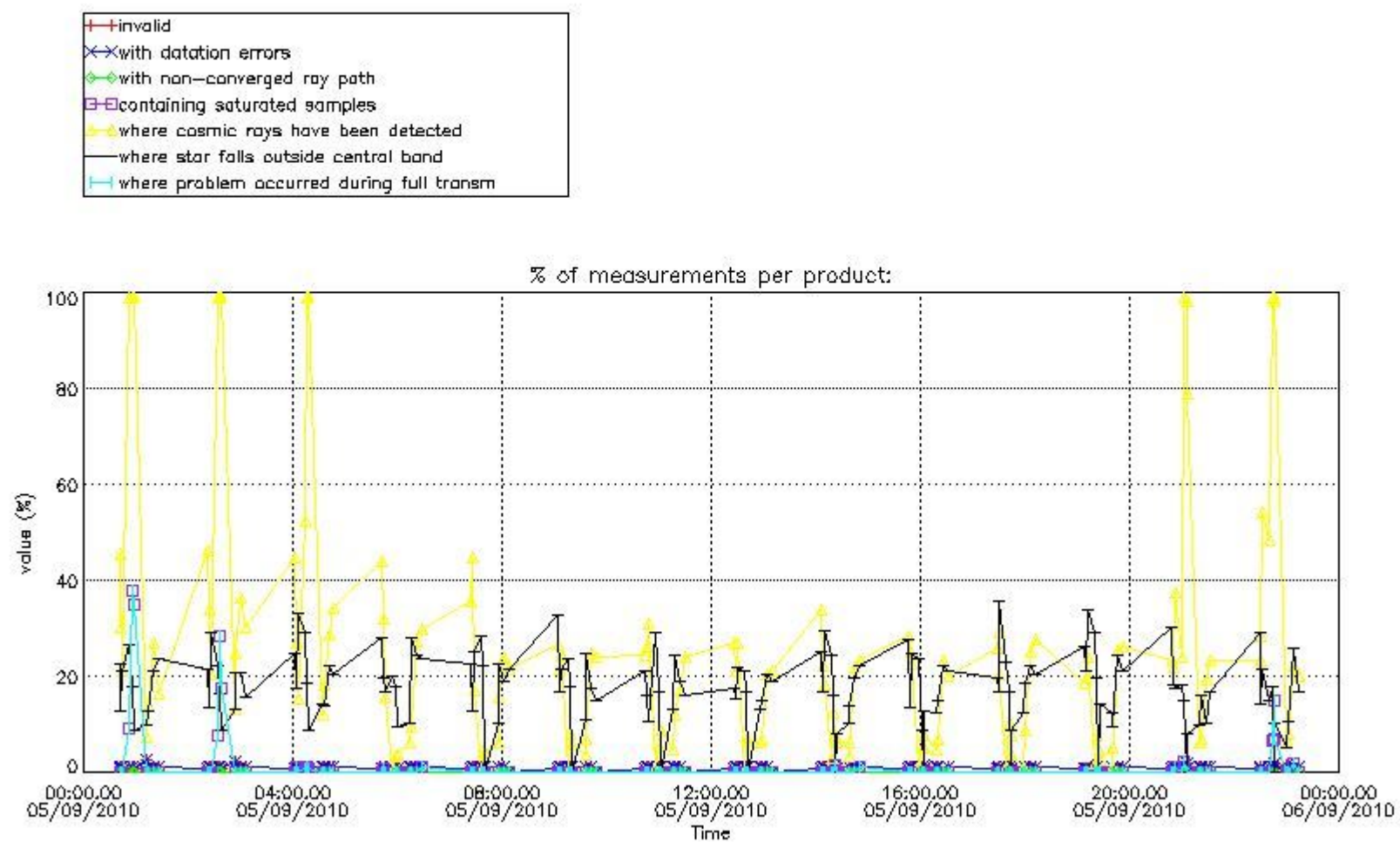


4. Level 1 quality information per product

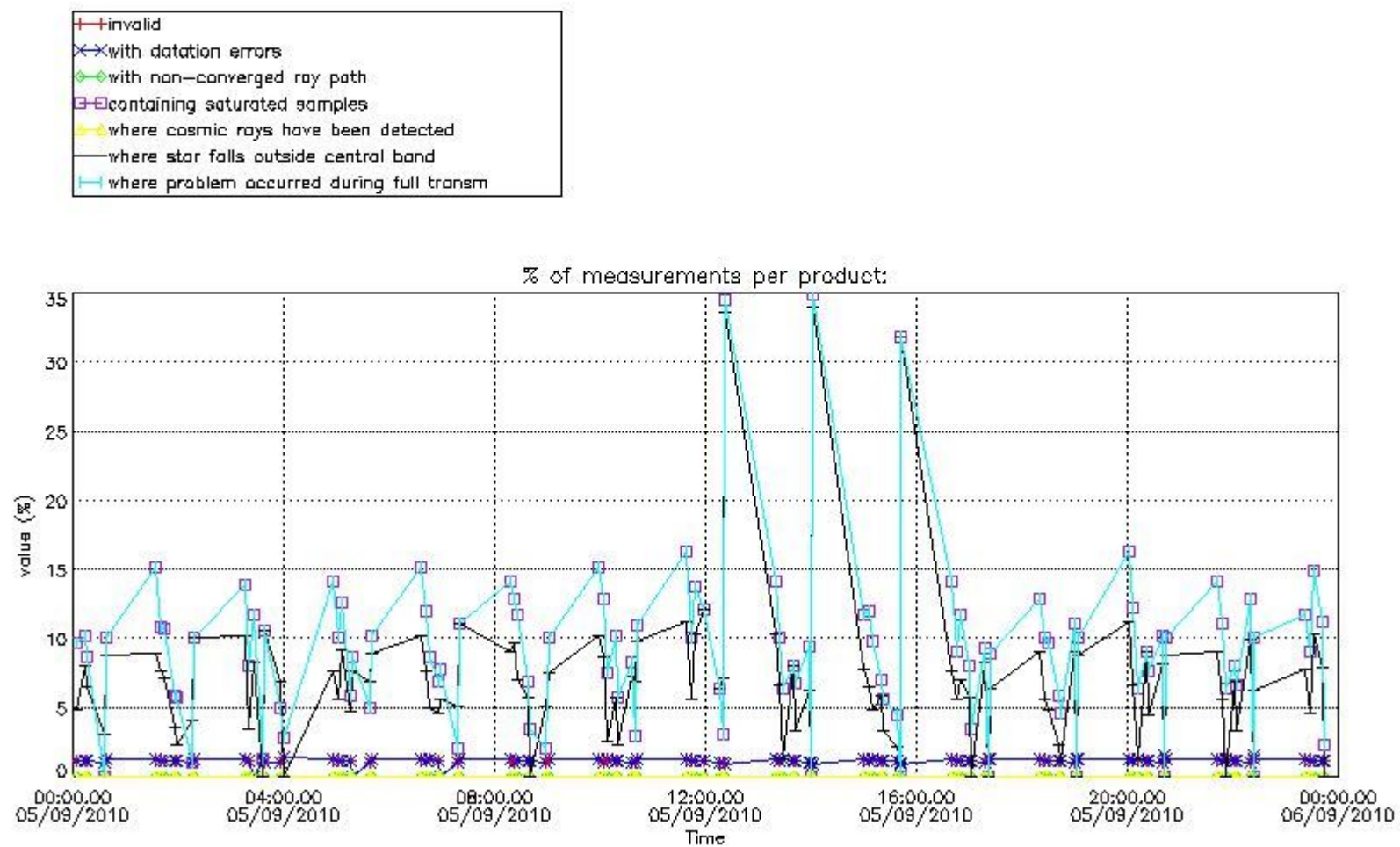
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

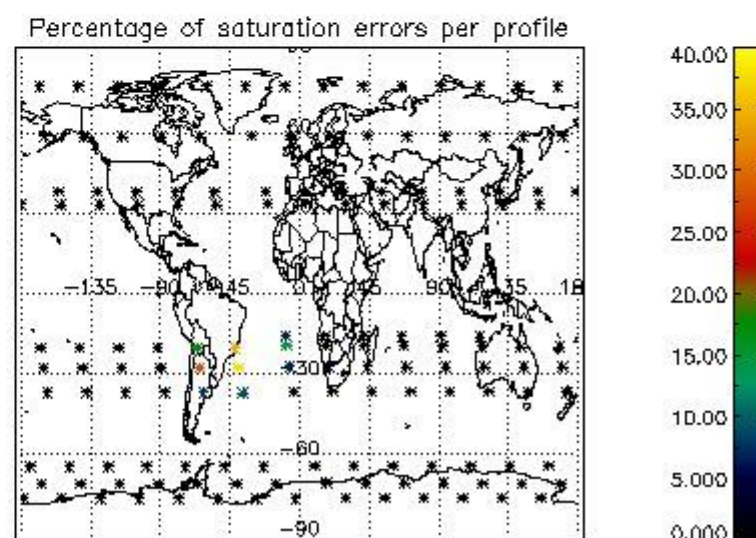
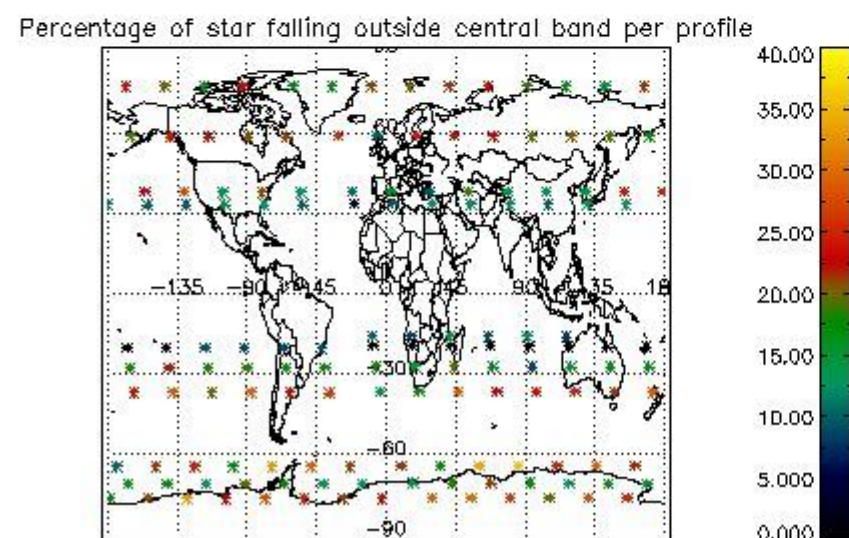
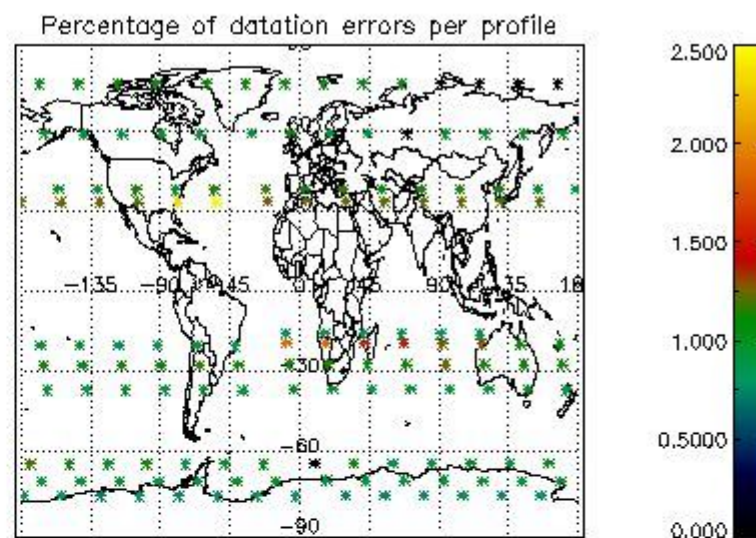
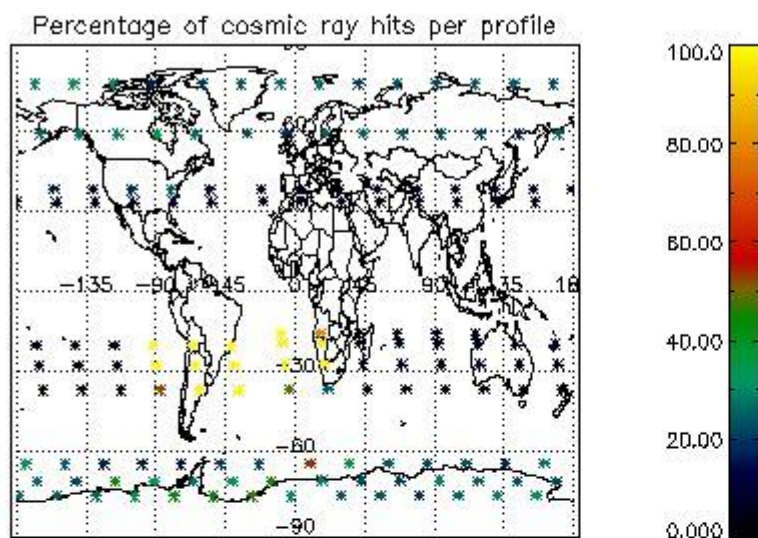


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

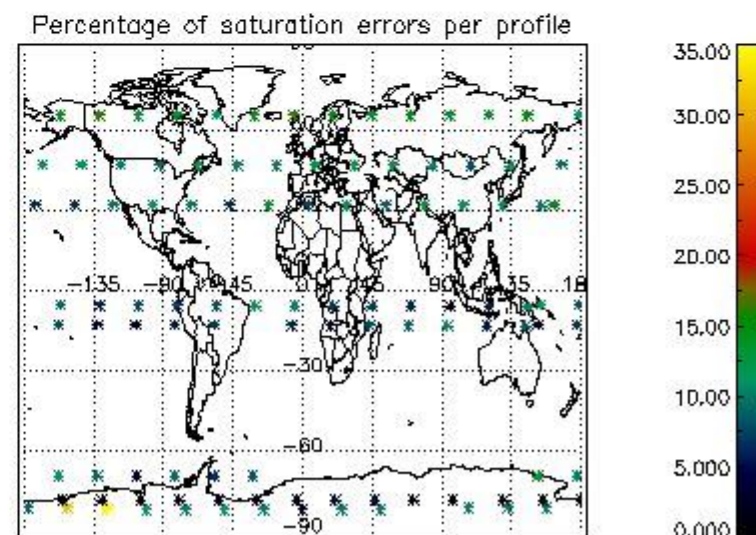
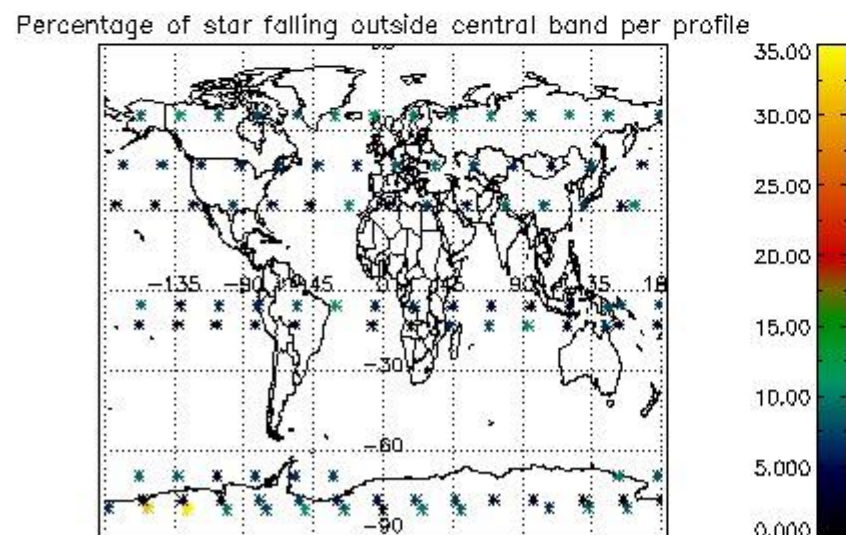
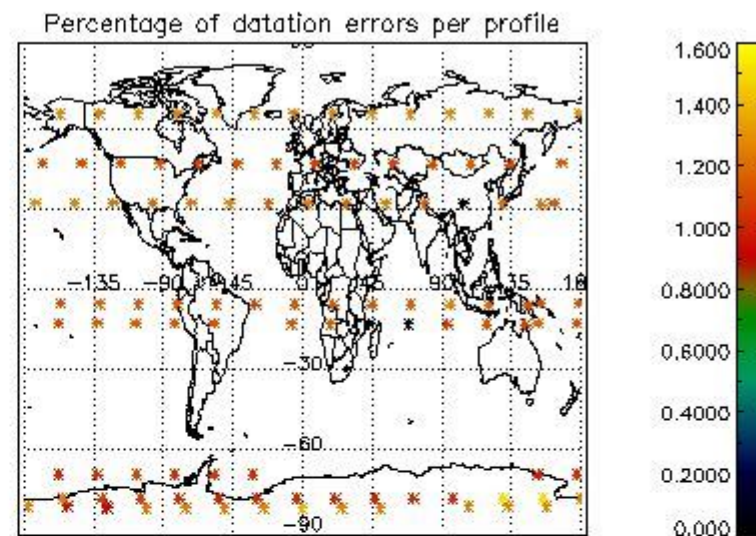
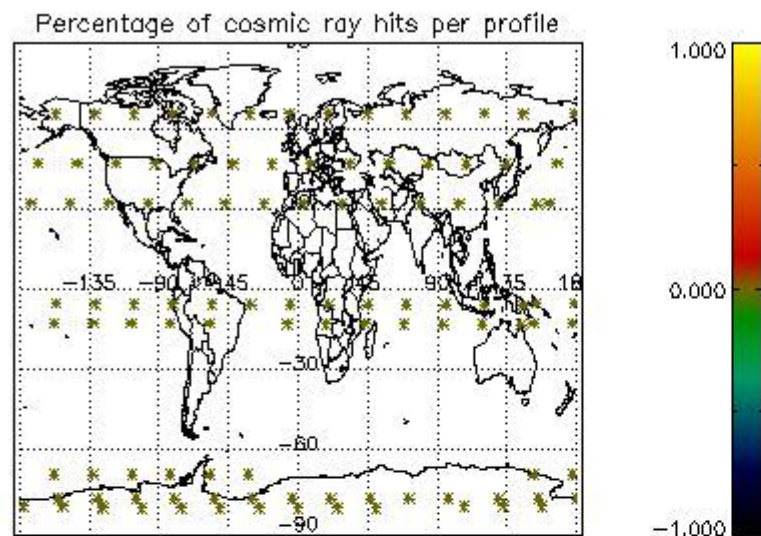


4.2 Plot quality information per product coming from level 1b processing (world map)

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

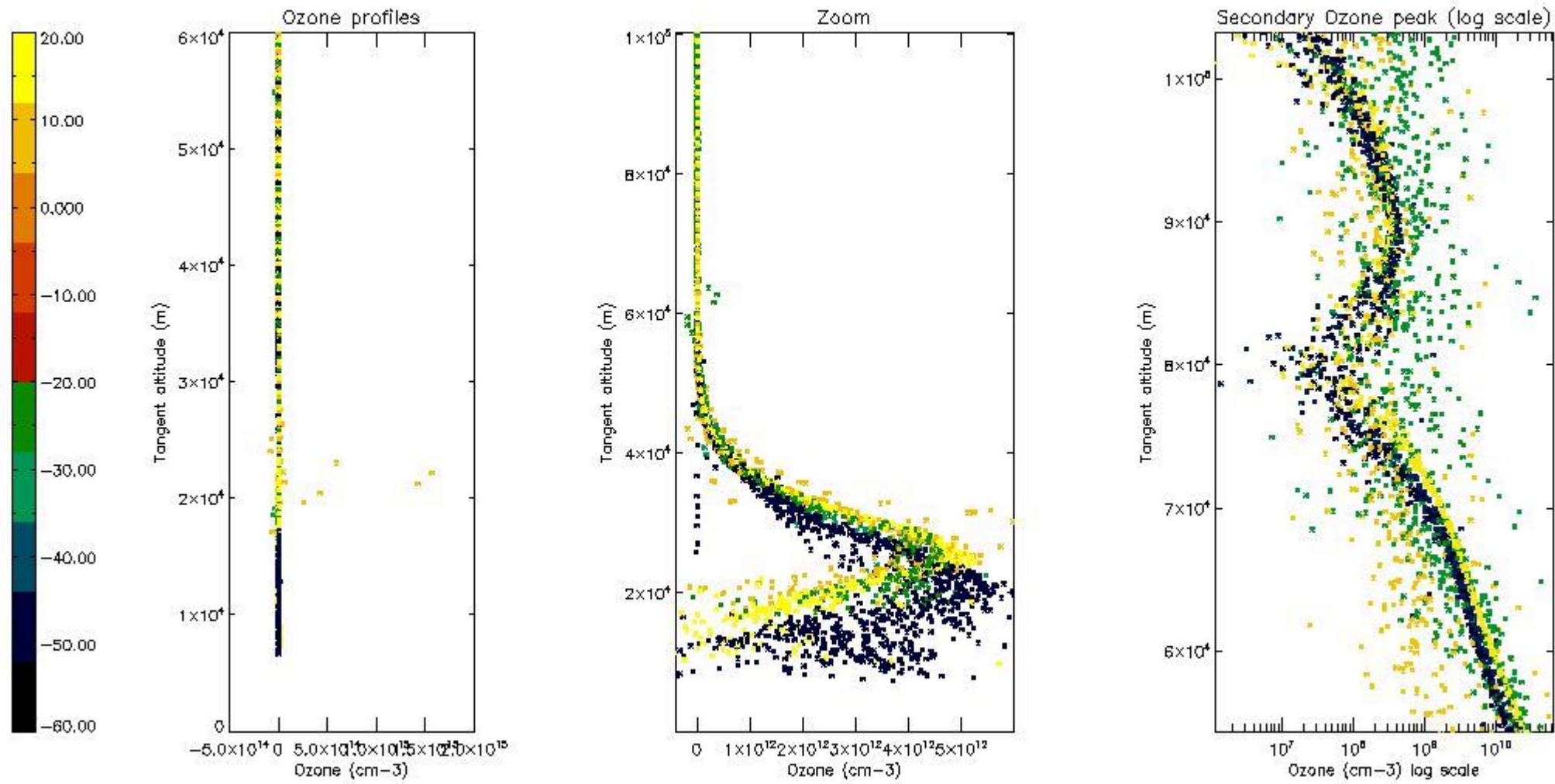
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	30
STD < 20	16

STD < 10	13
STD < 5	9

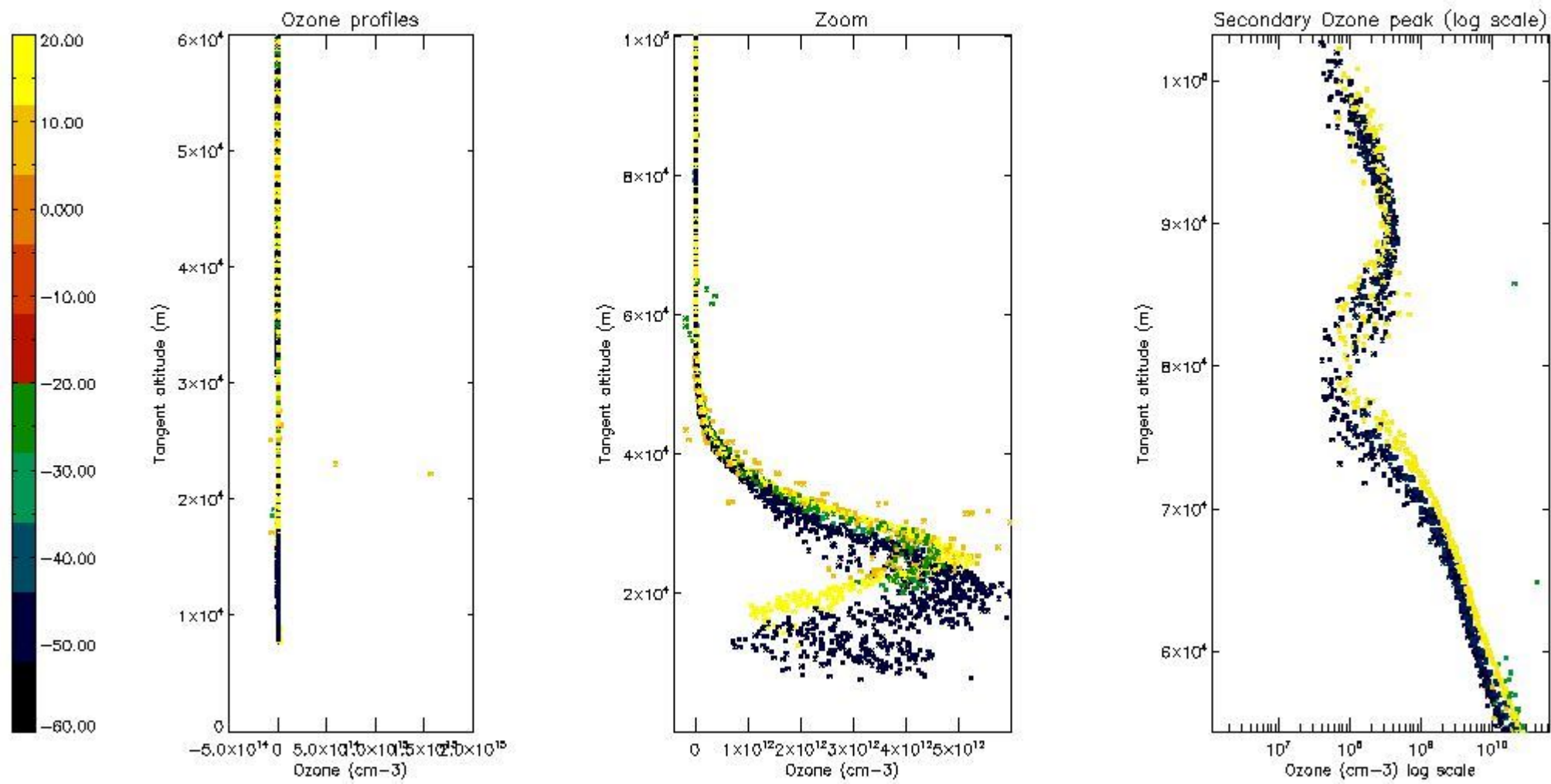
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



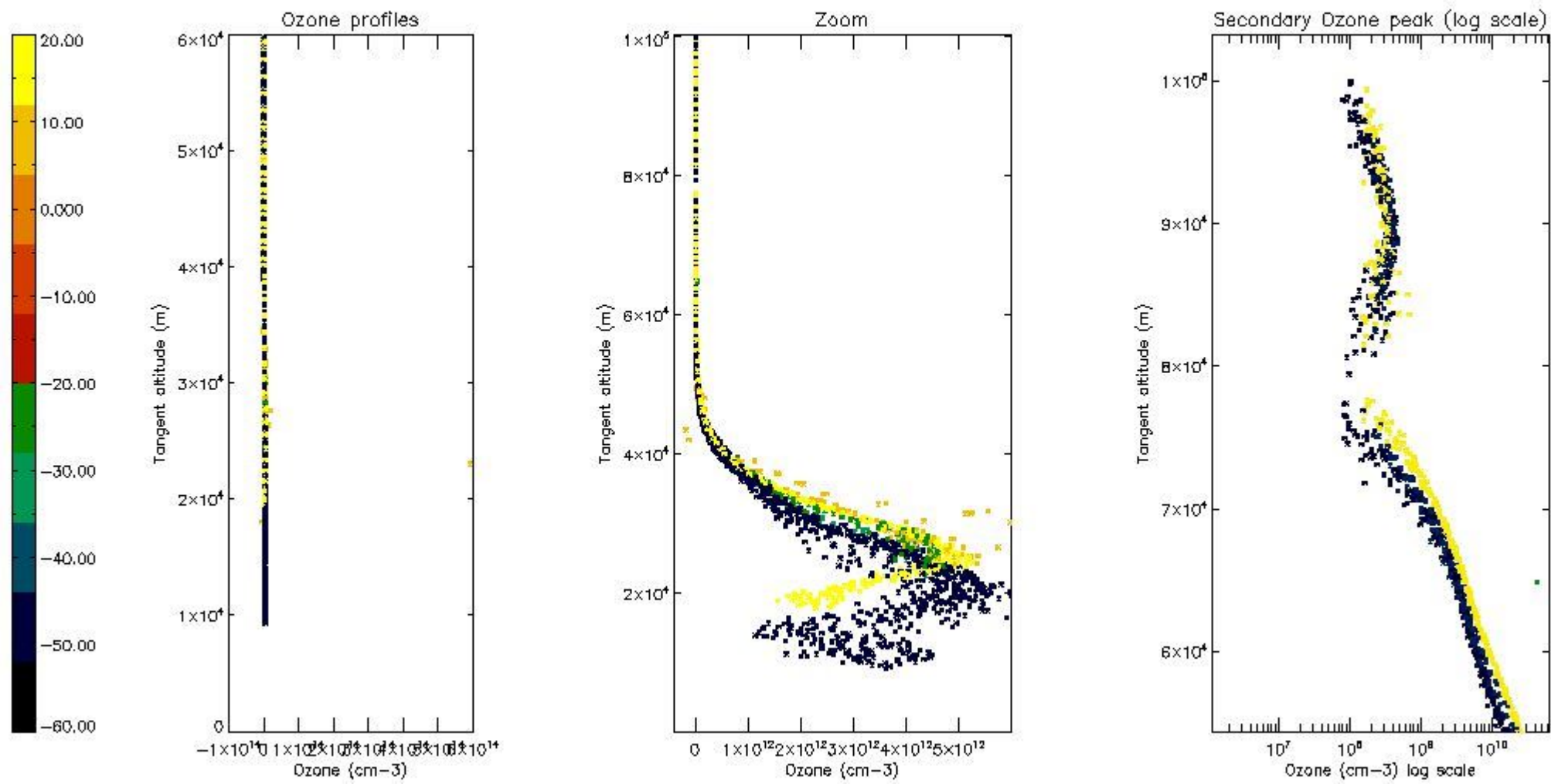
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



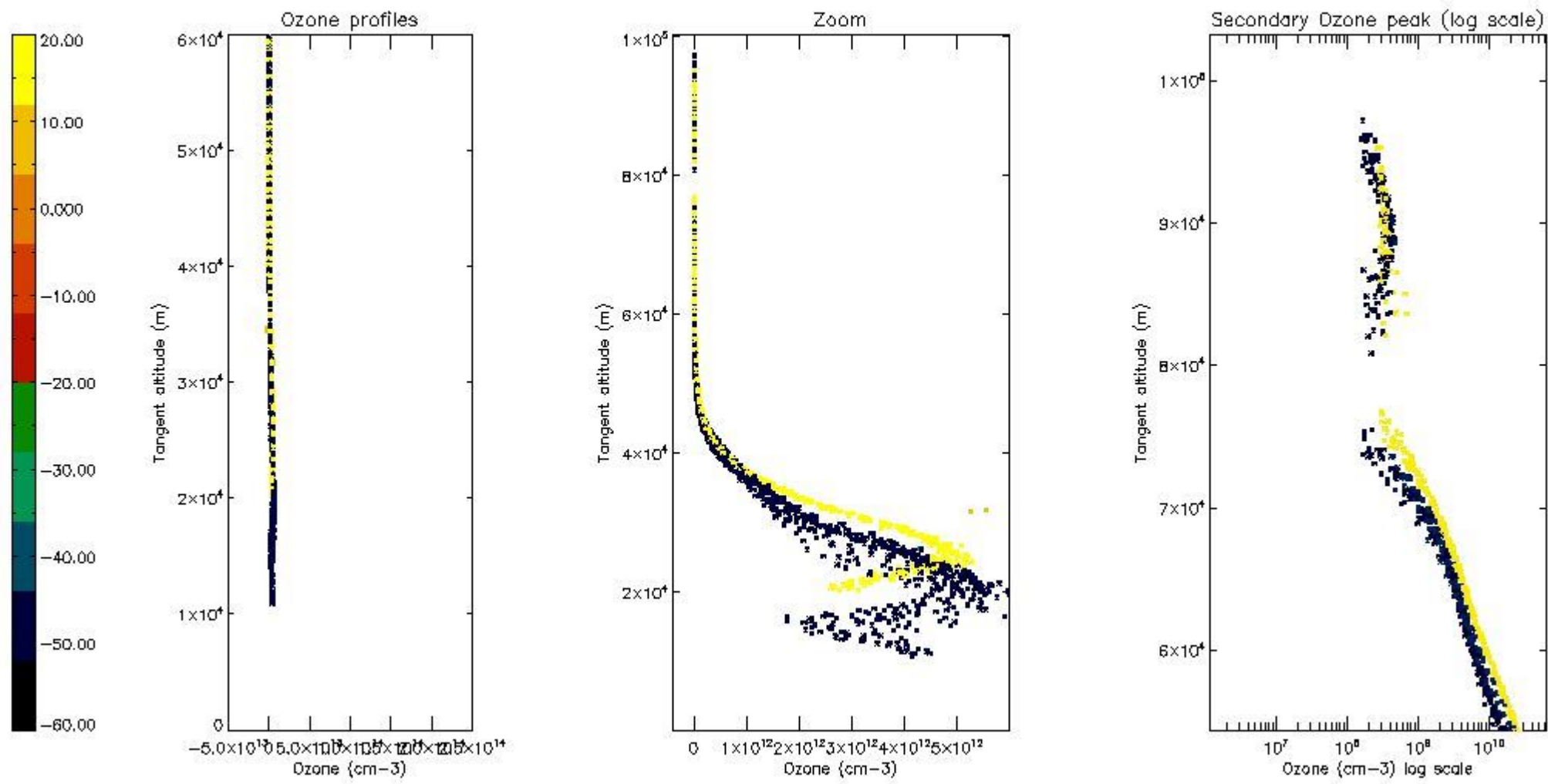
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



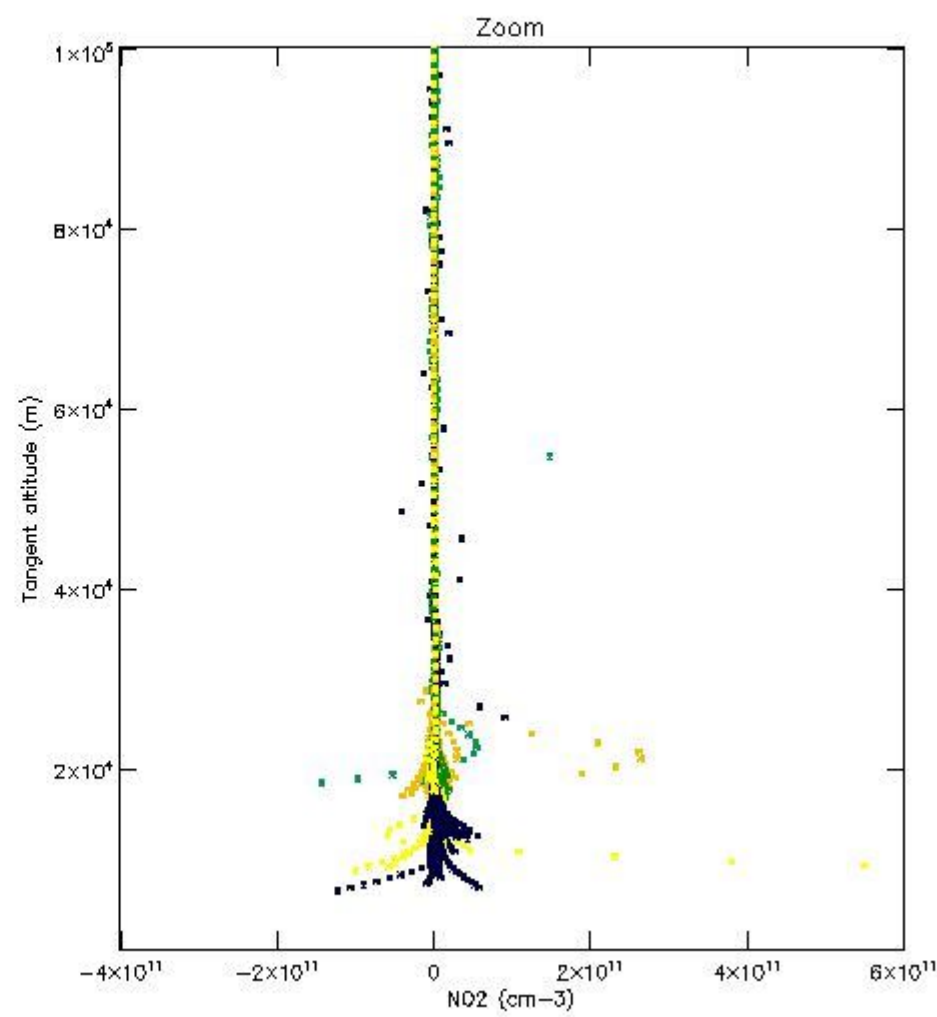
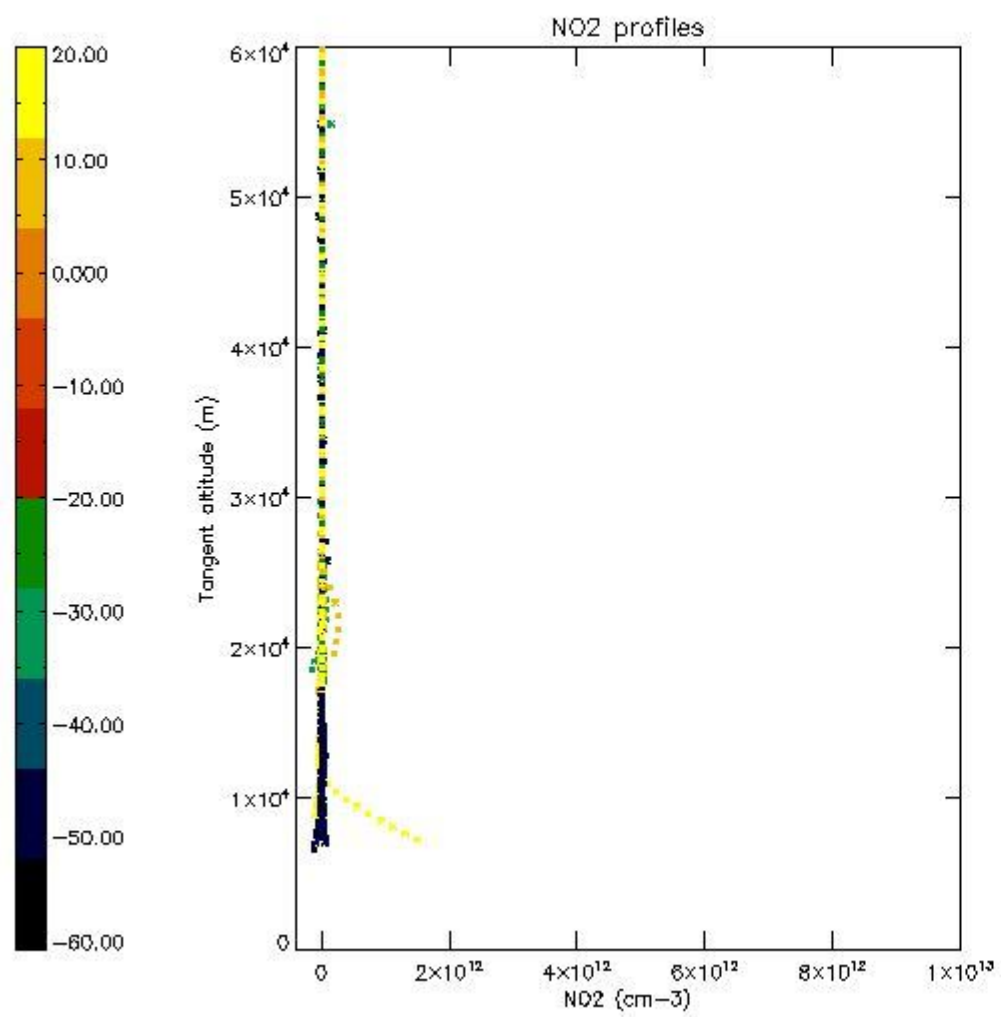
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



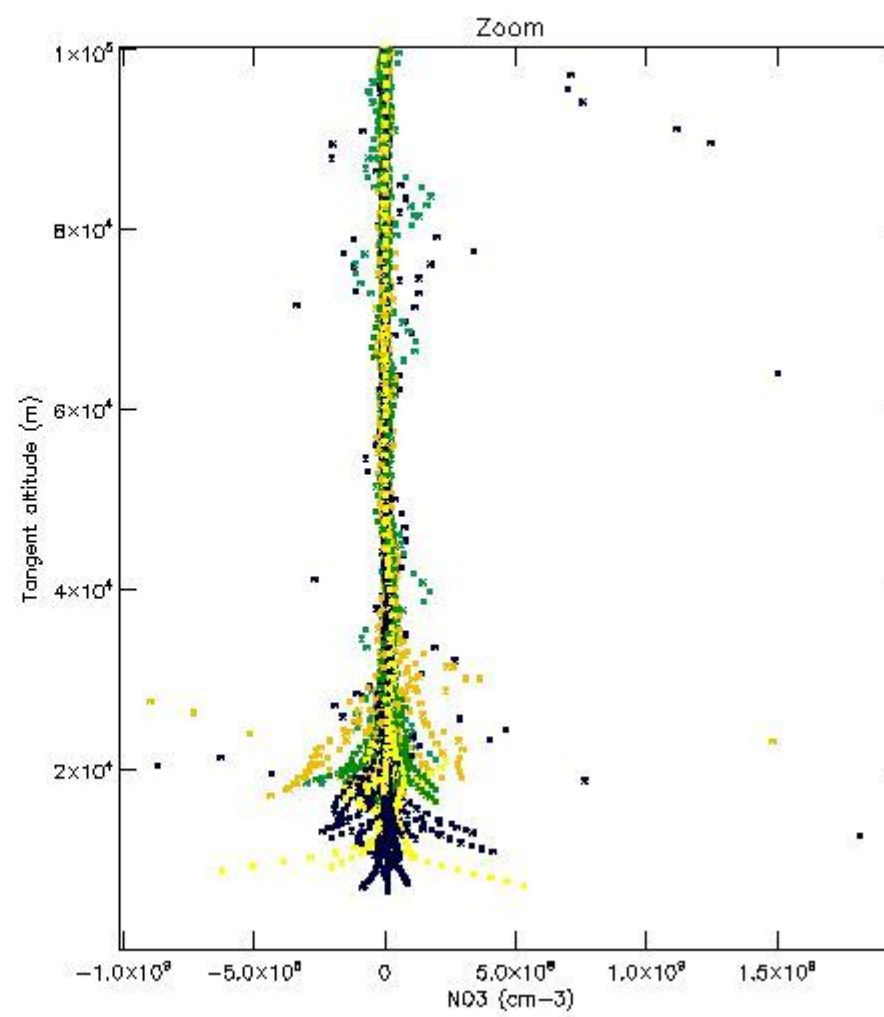
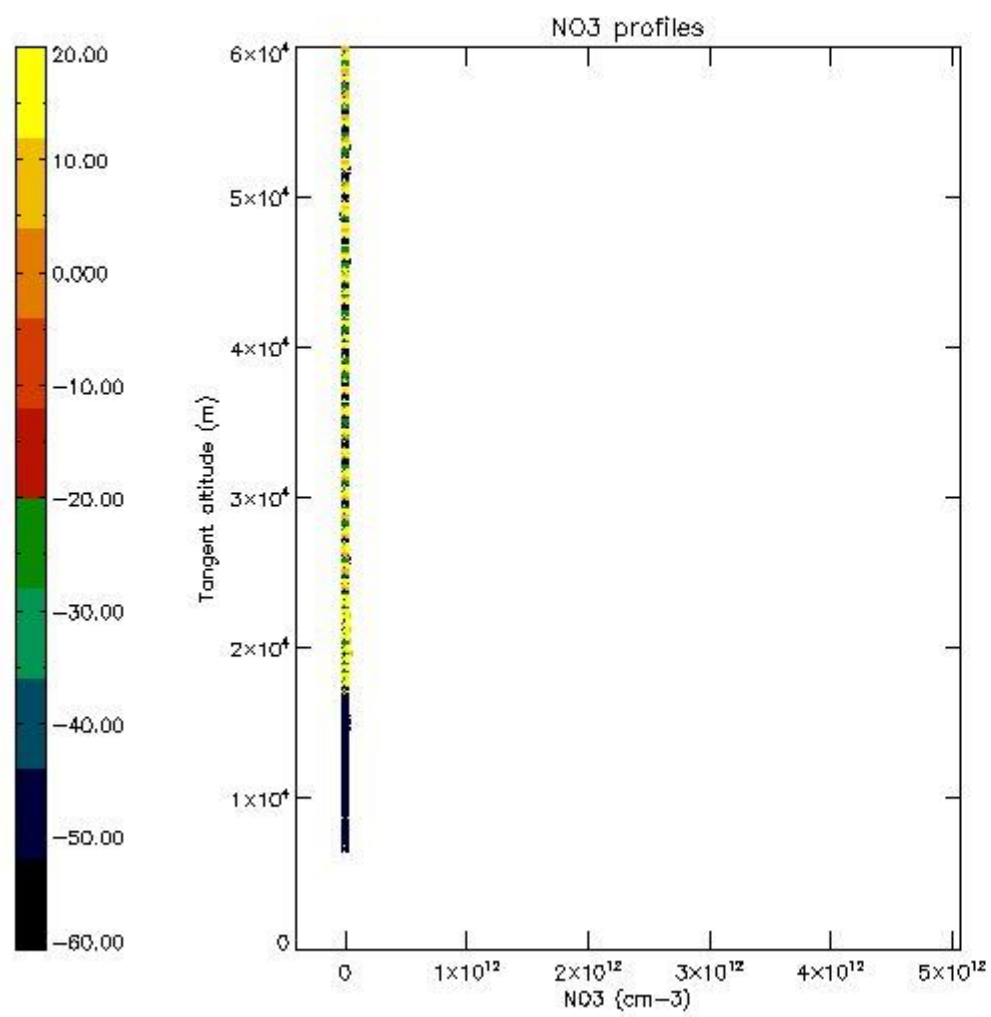
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



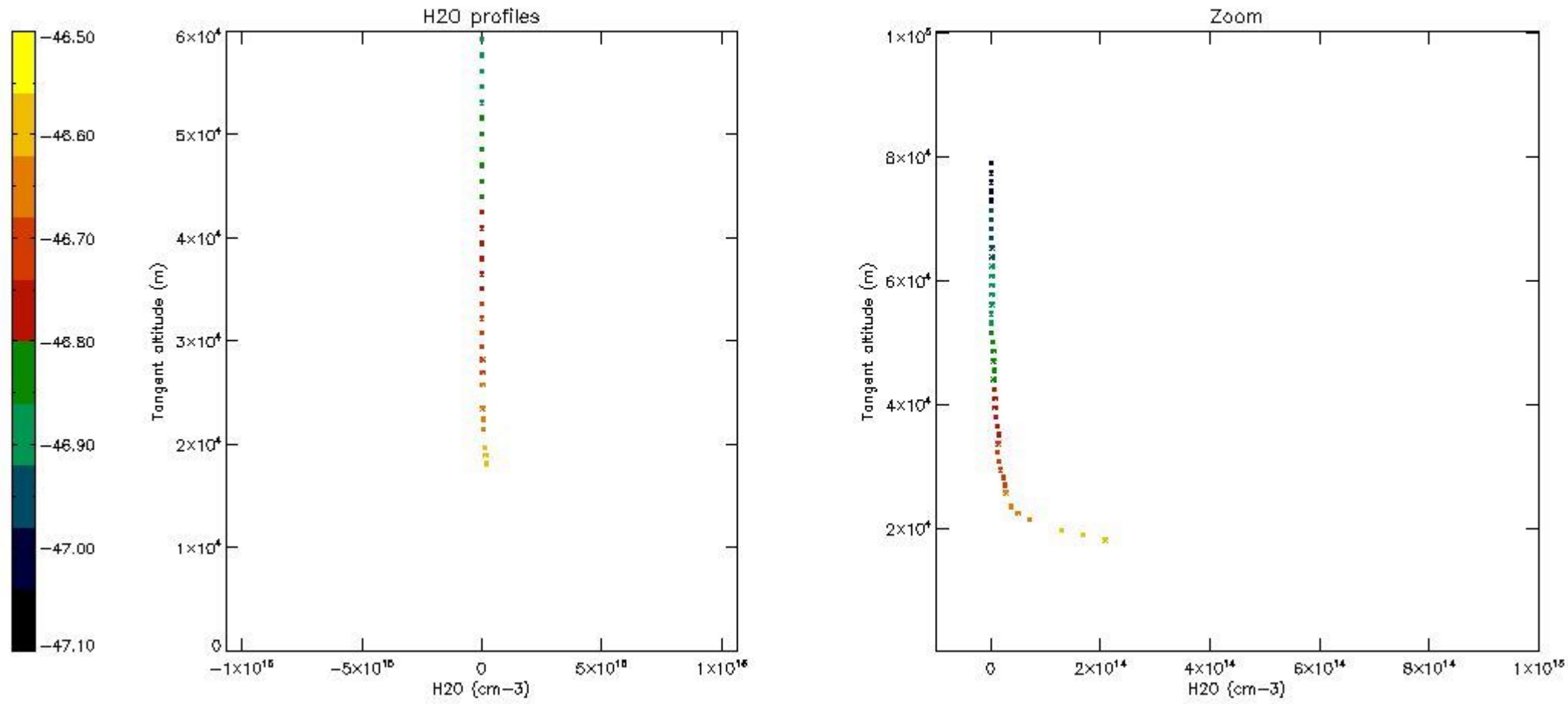
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

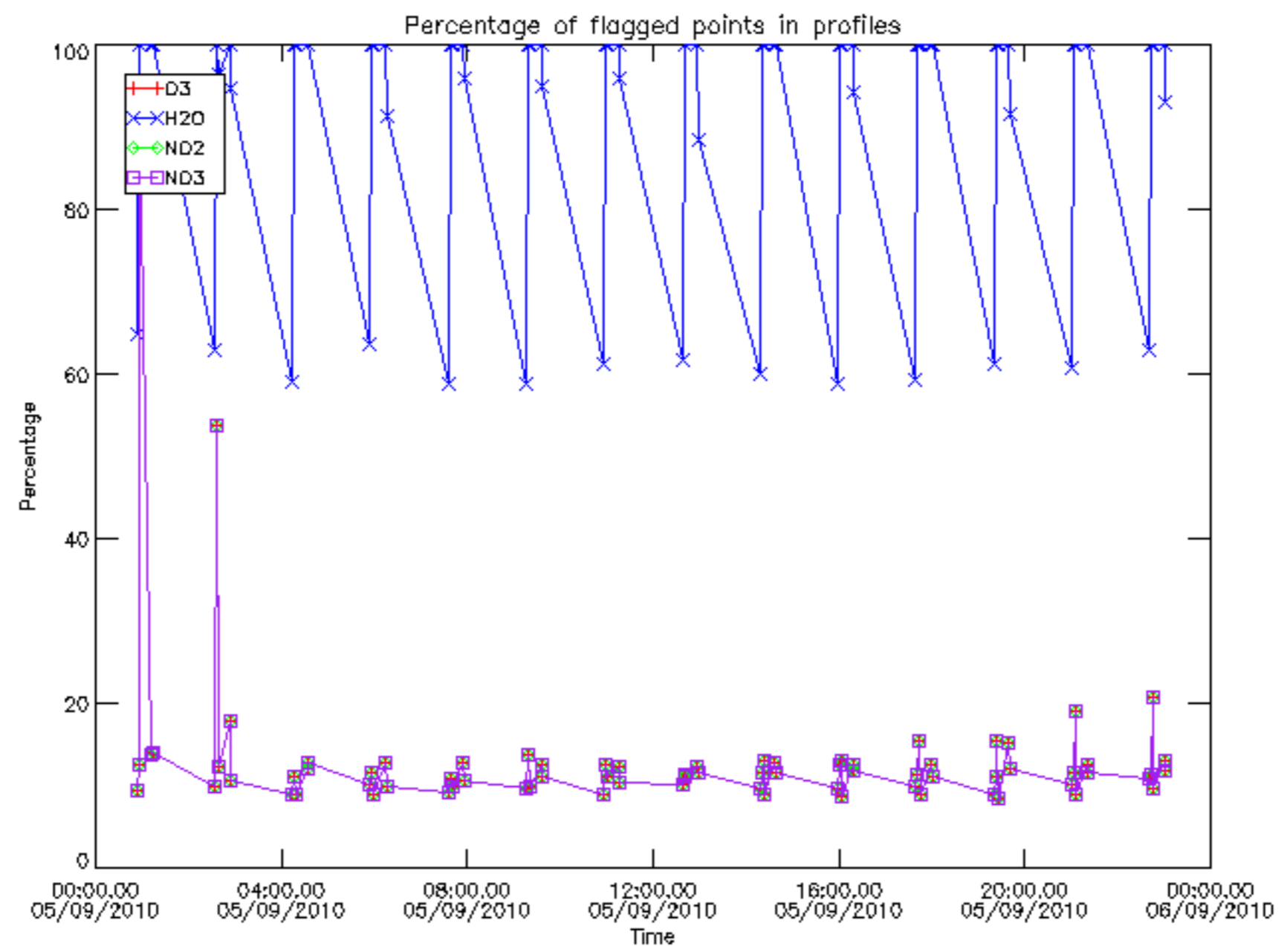
The colorbar represents the latitude.



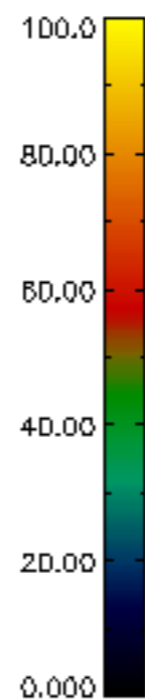
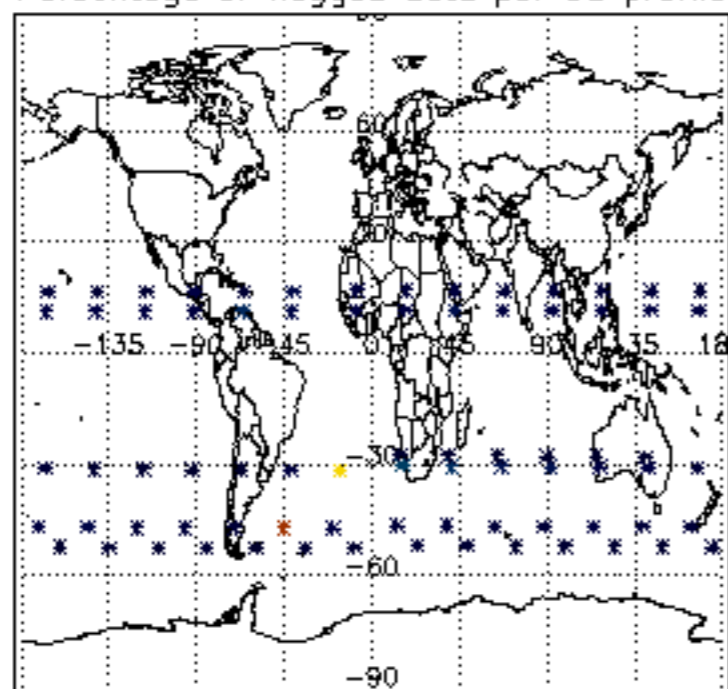
6. Auxiliary Data Files used for the production reported in section 2

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.

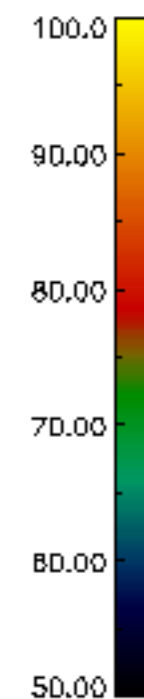
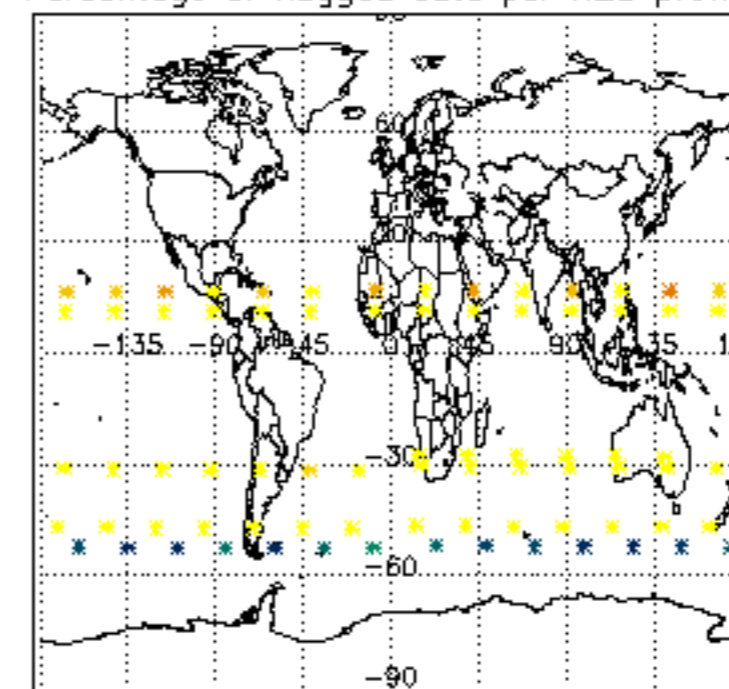
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	05-SEP-2010 00:04:01
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	05-SEP-2010 00:04:01
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	05-SEP-2010 00:04:01



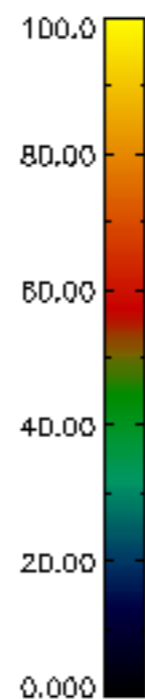
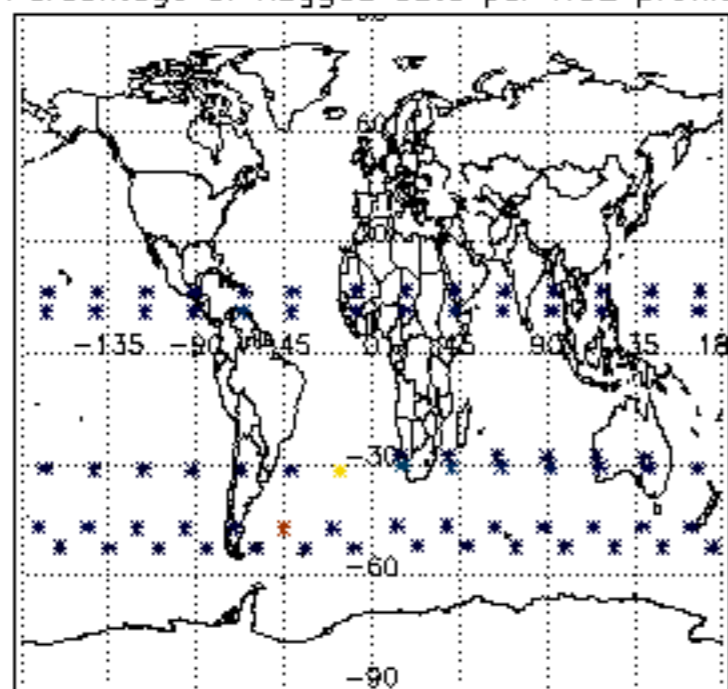
Percentage of flagged data per D3 profile



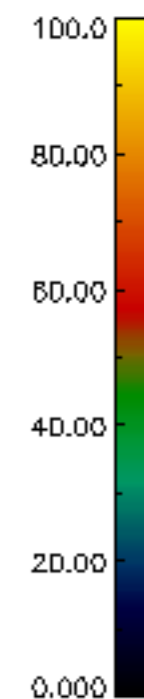
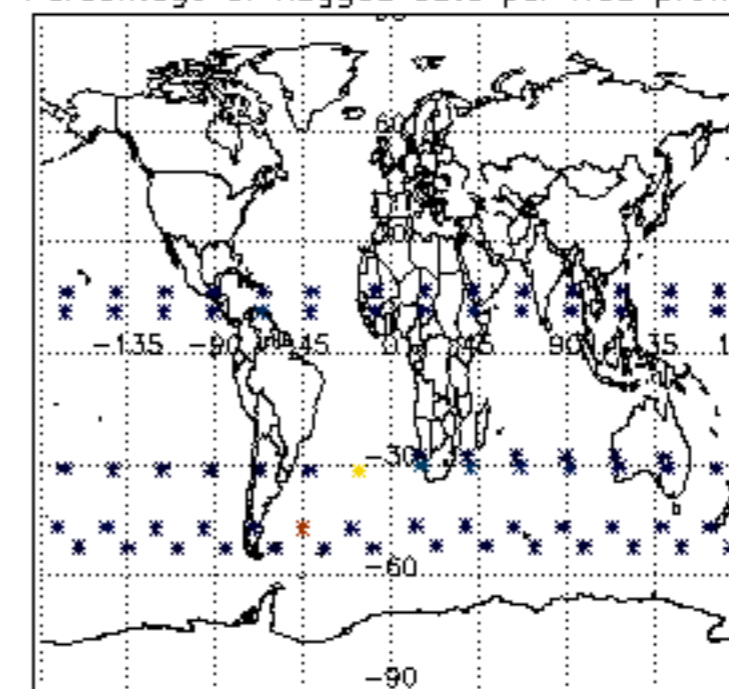
Percentage of flagged data per H2O profile

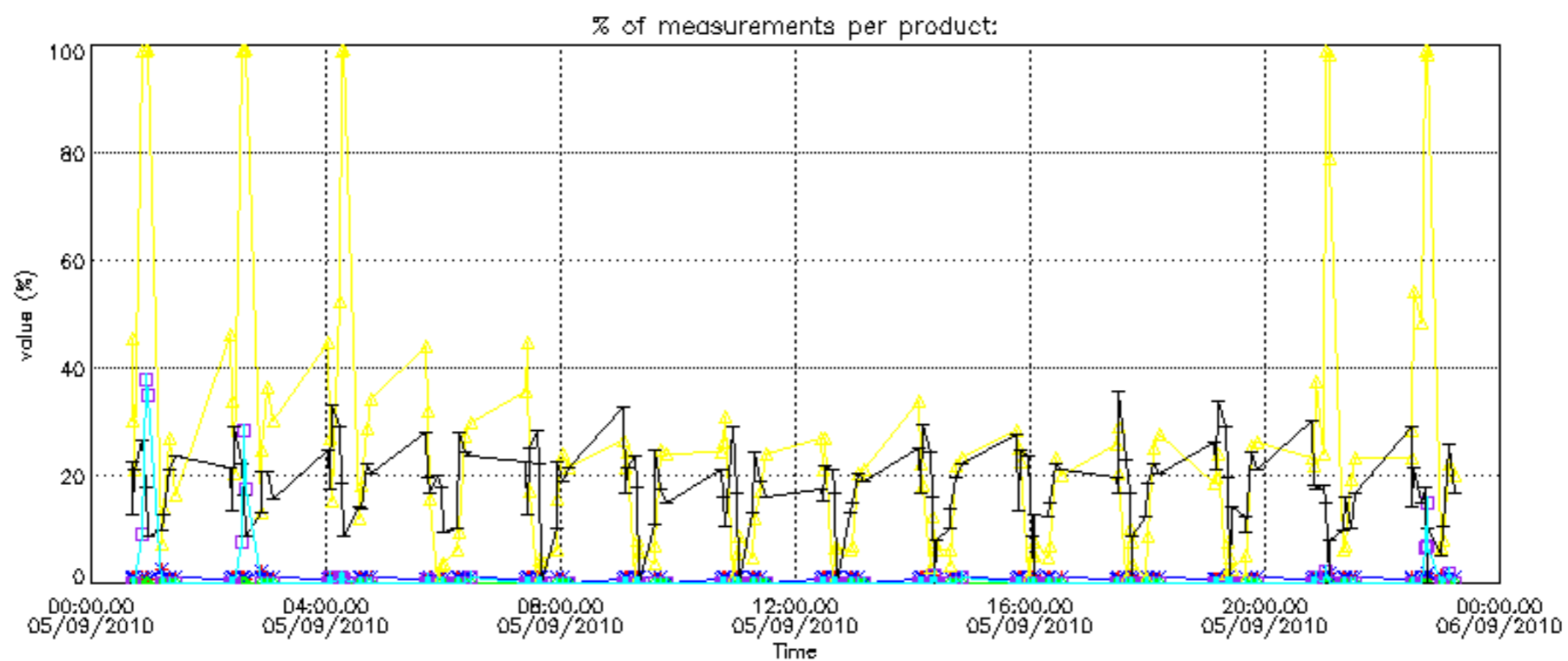


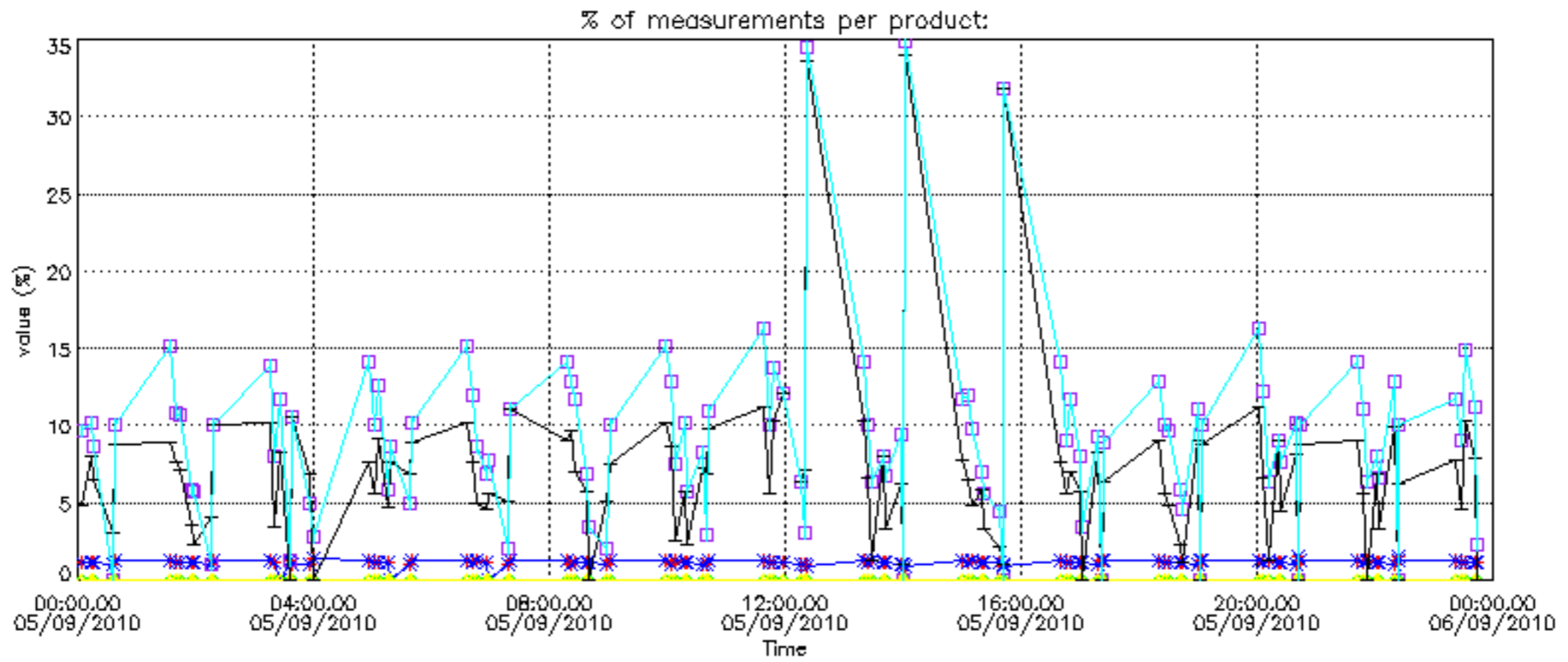
Percentage of flagged data per NO2 profile



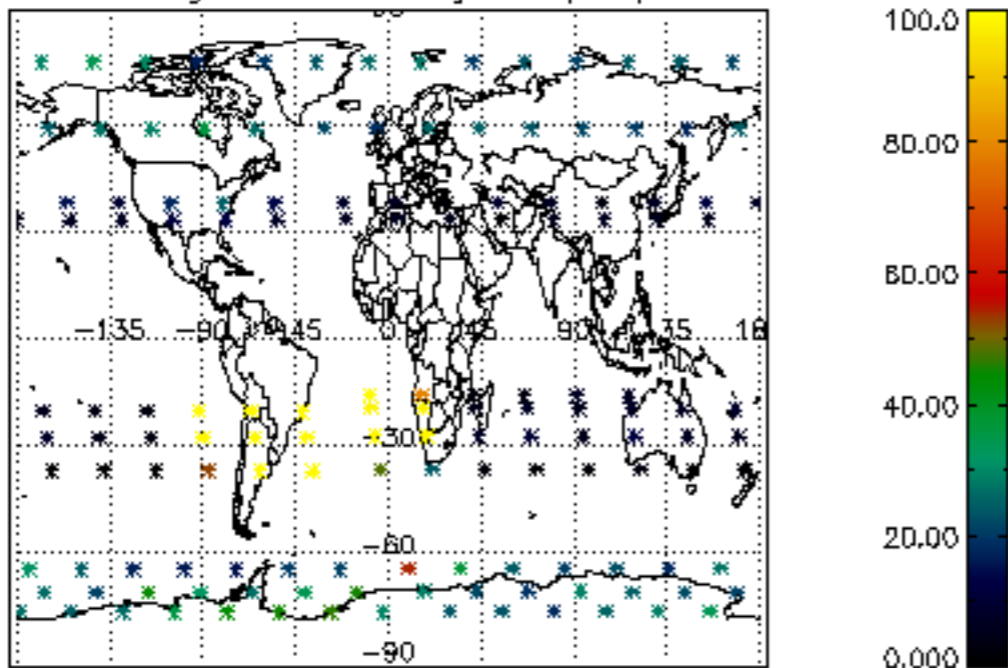
Percentage of flagged data per NO3 profile



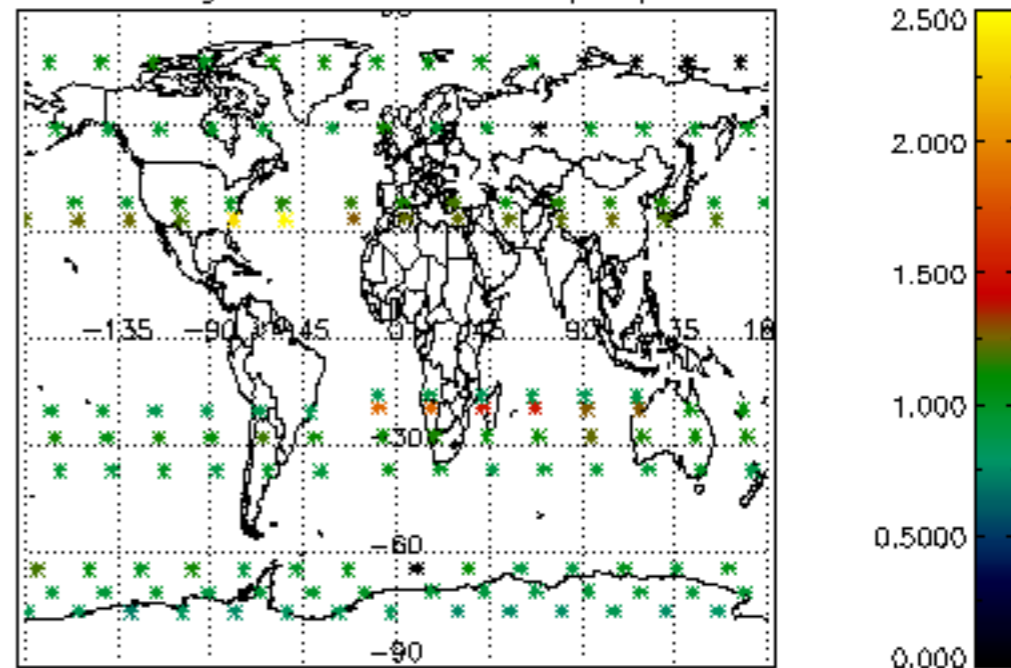




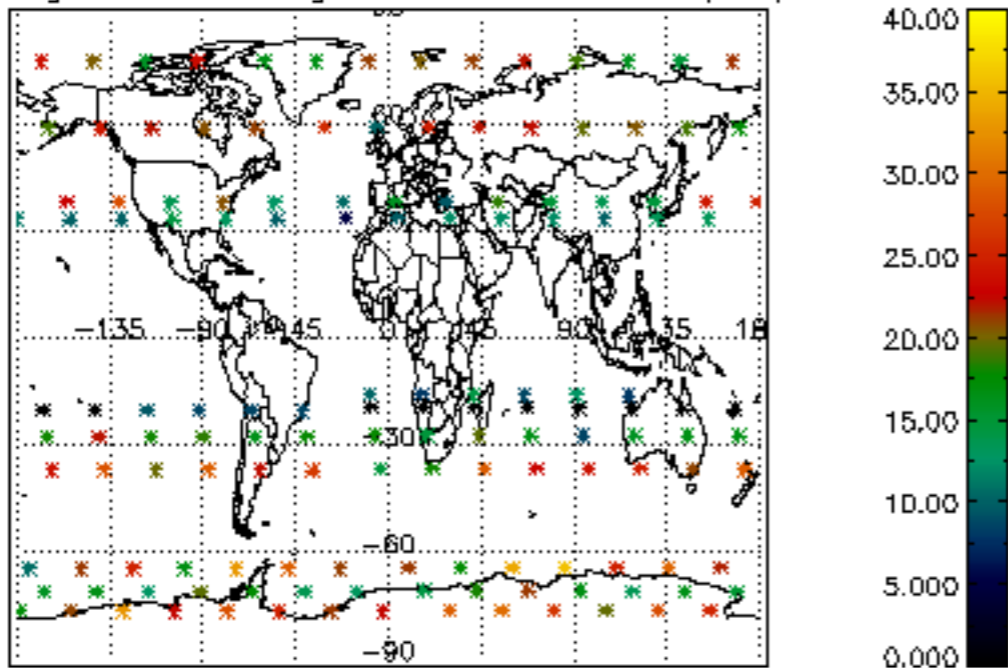
Percentage of cosmic ray hits per profile



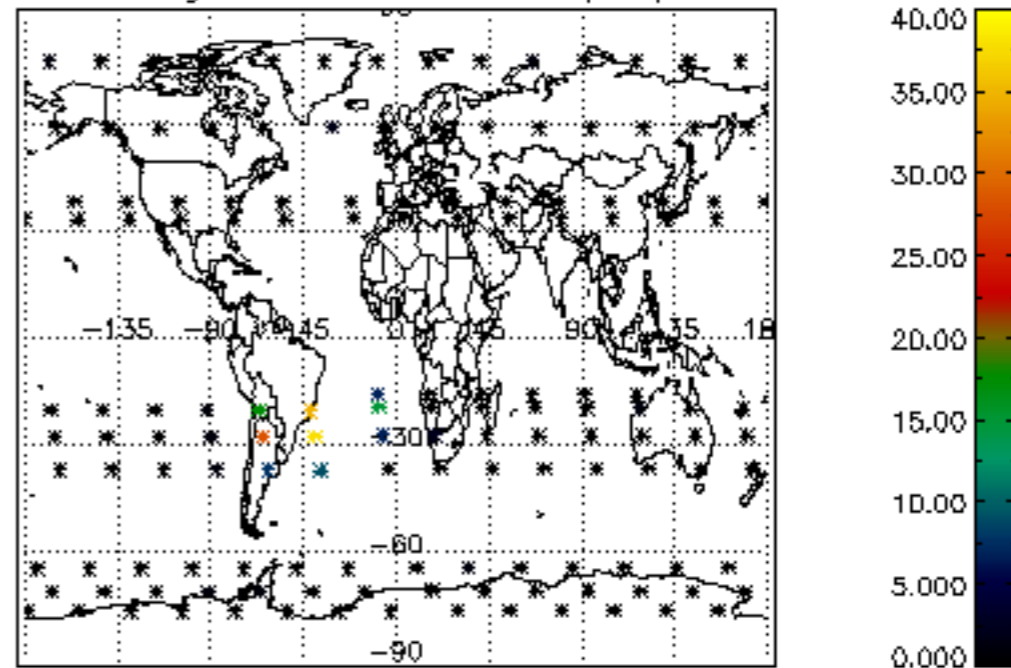
Percentage of datation errors per profile



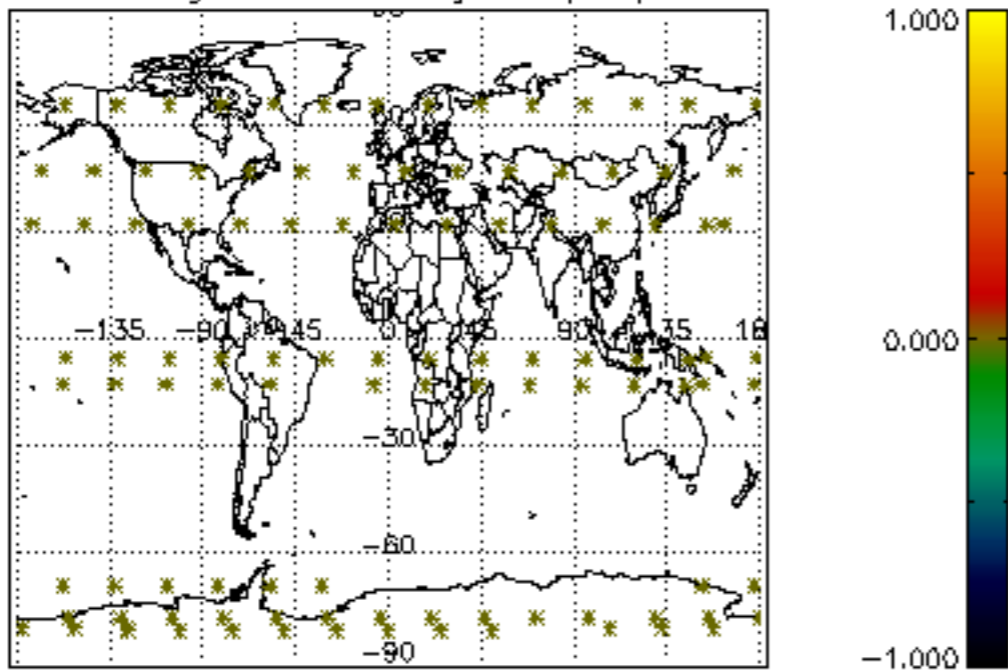
Percentage of star falling outside central band per profile



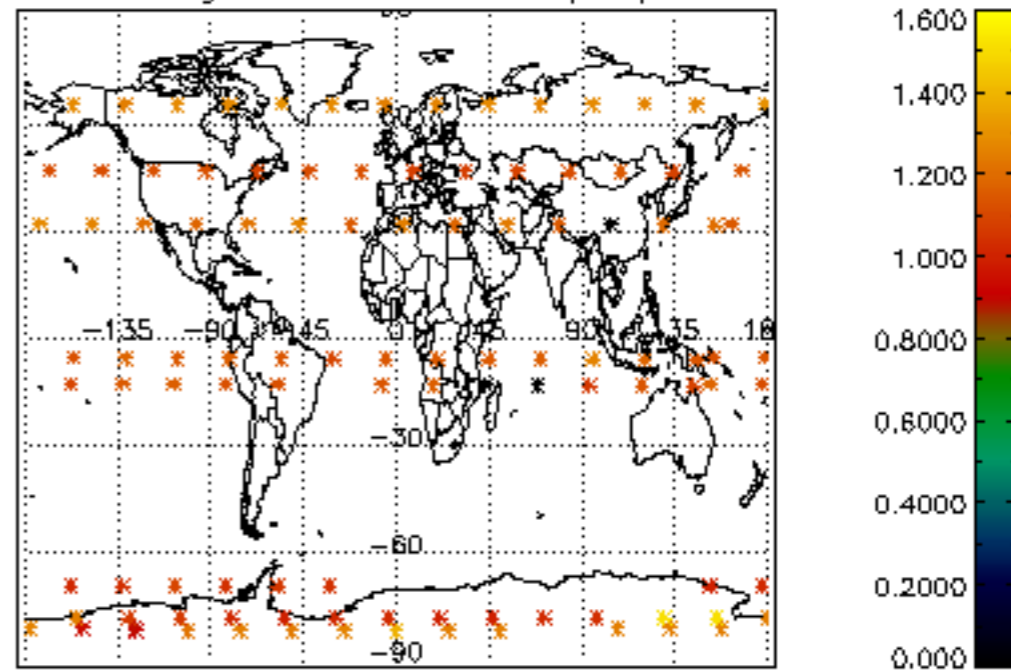
Percentage of saturation errors per profile



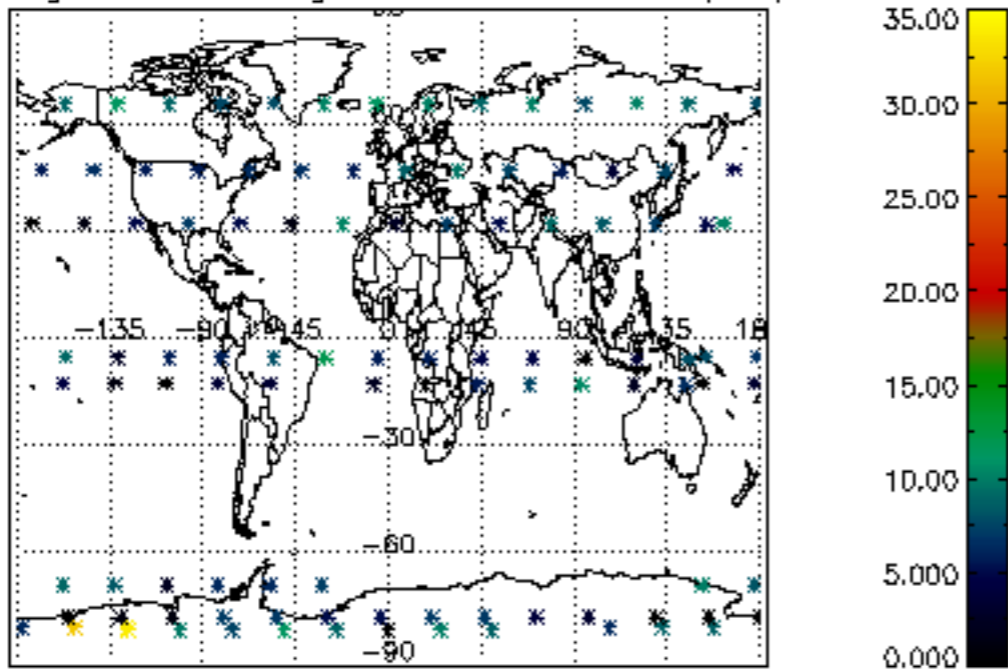
Percentage of cosmic ray hits per profile



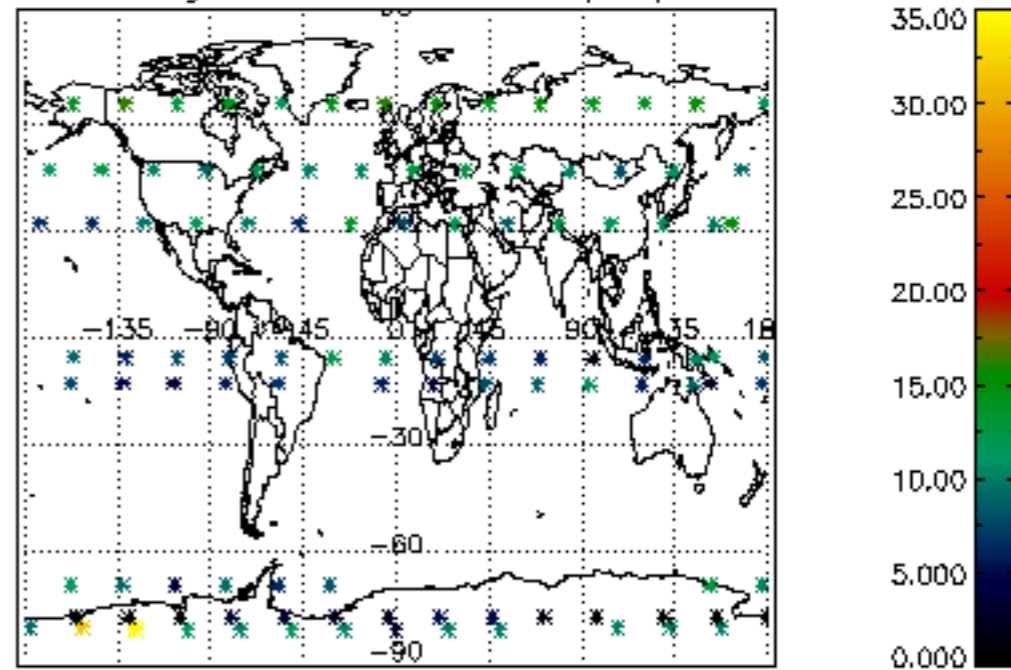
Percentage of datation errors per profile

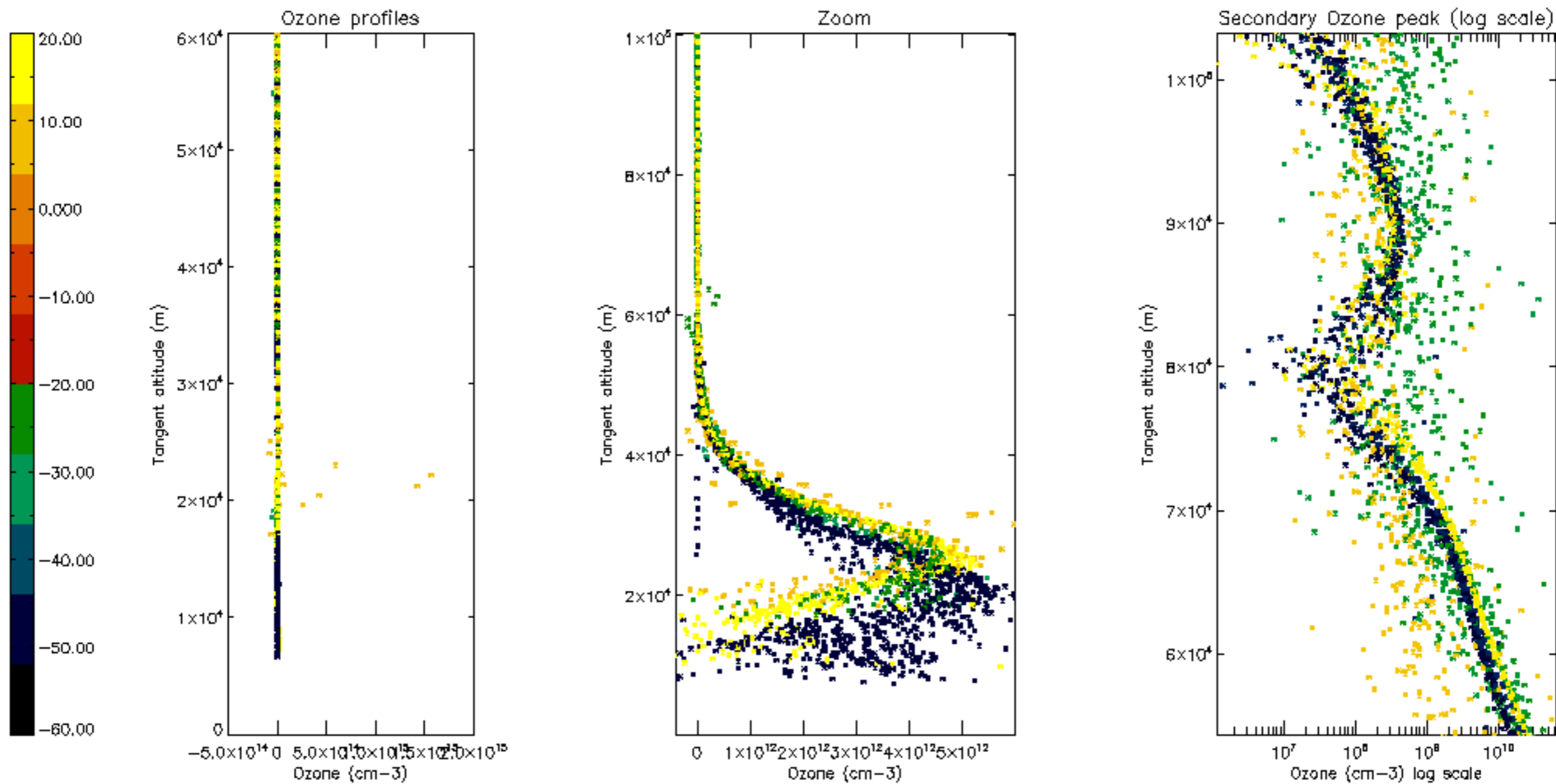


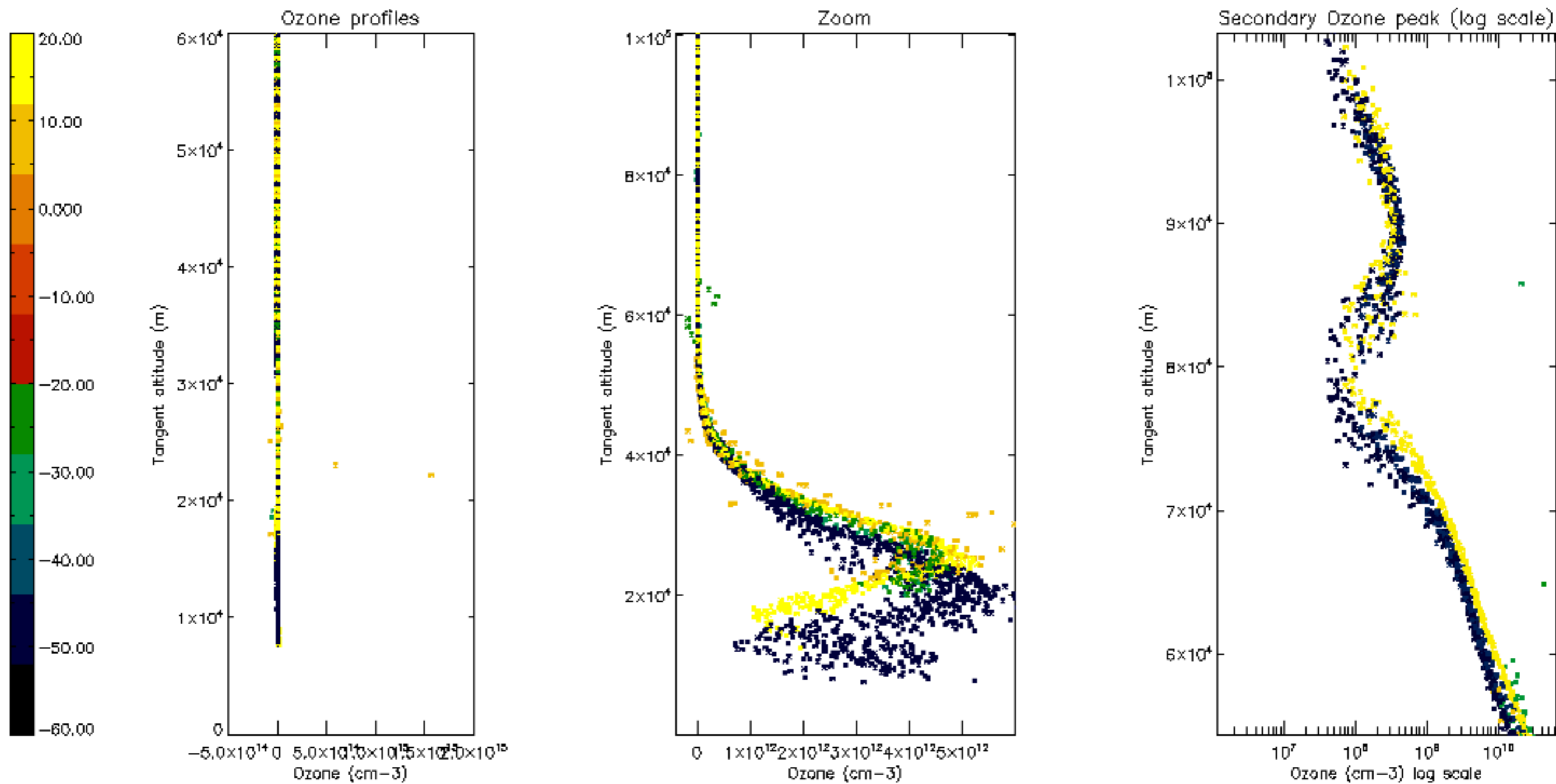
Percentage of star falling outside central band per profile

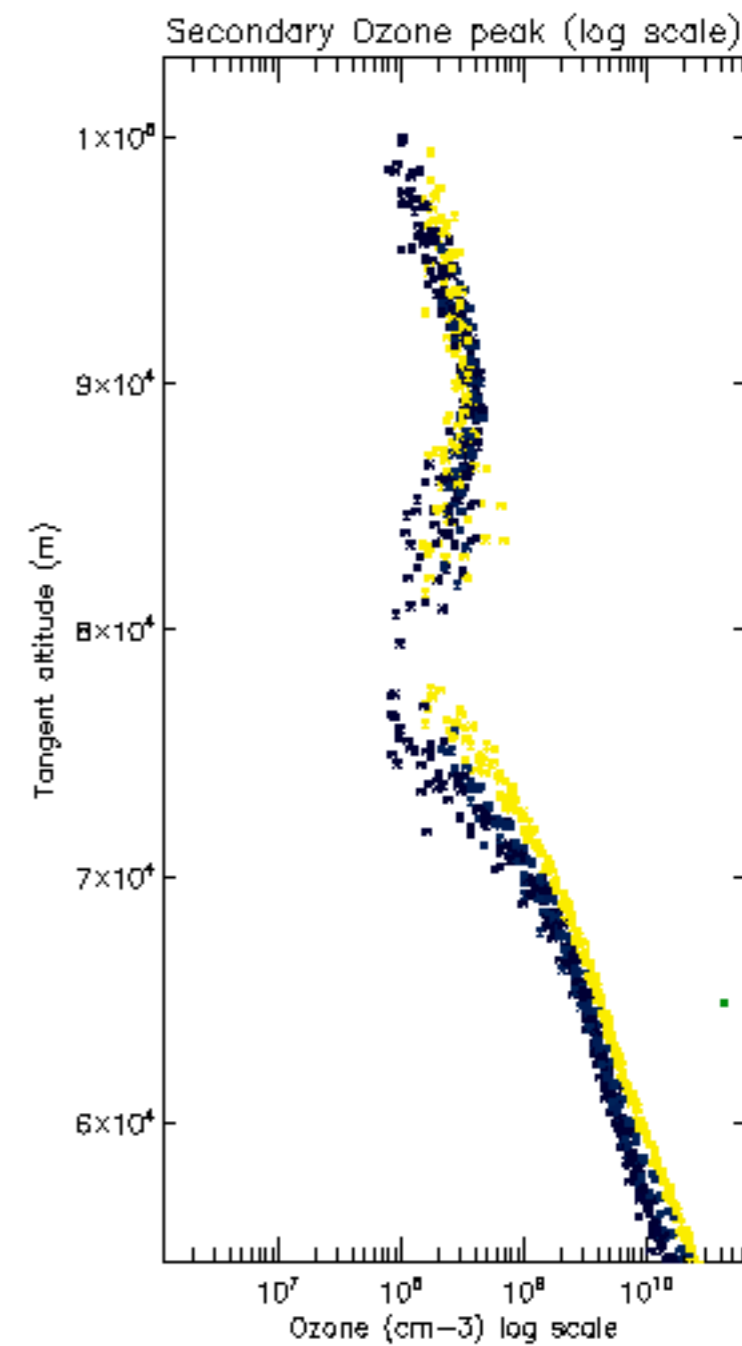
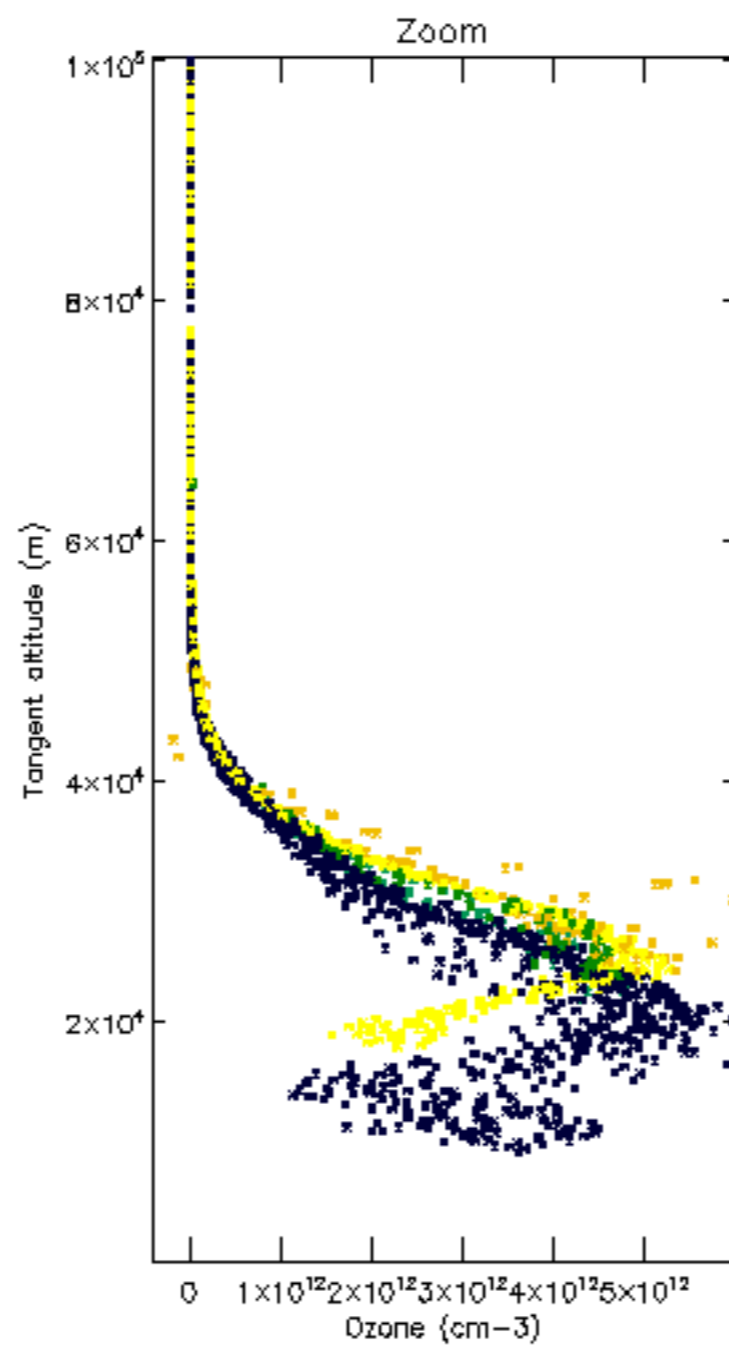
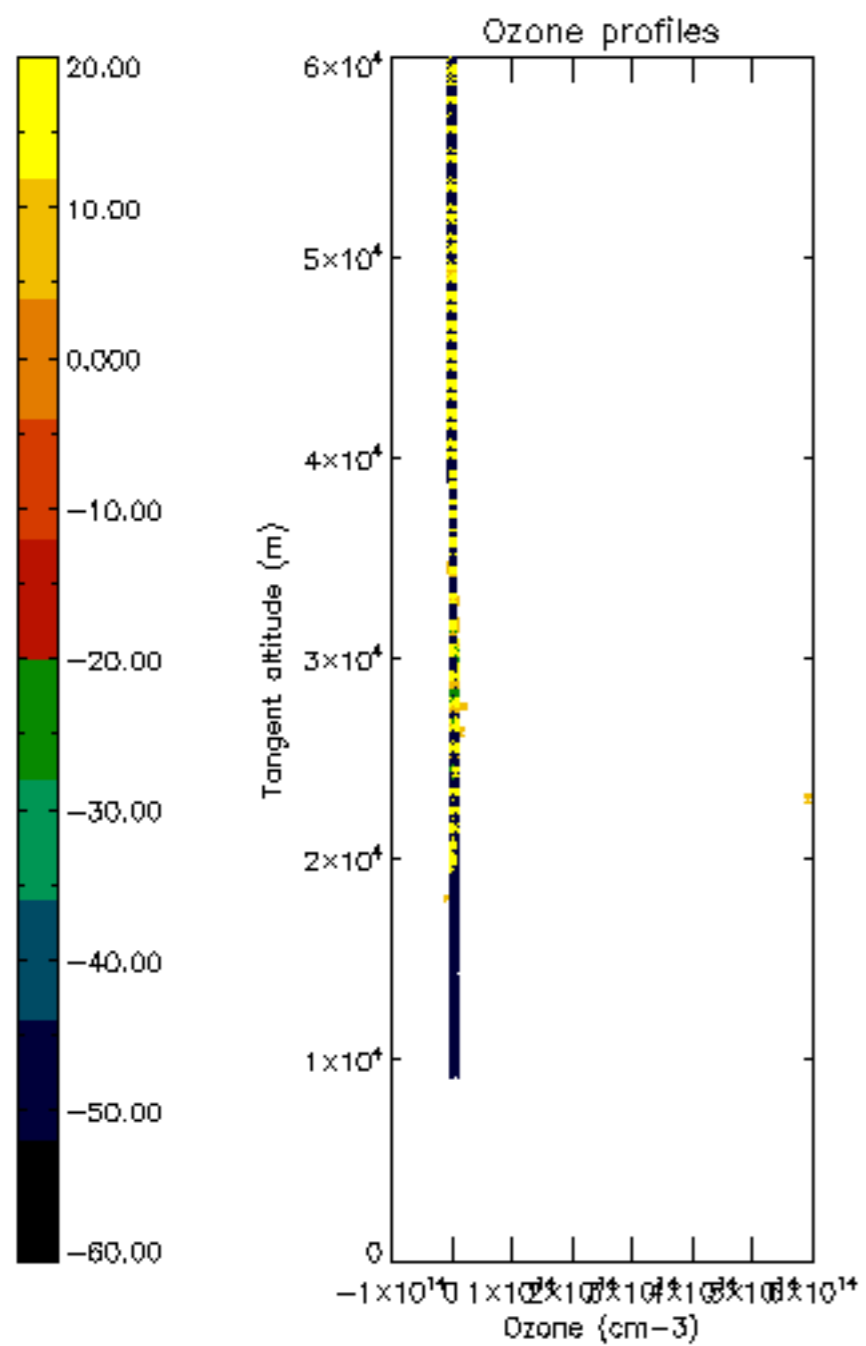


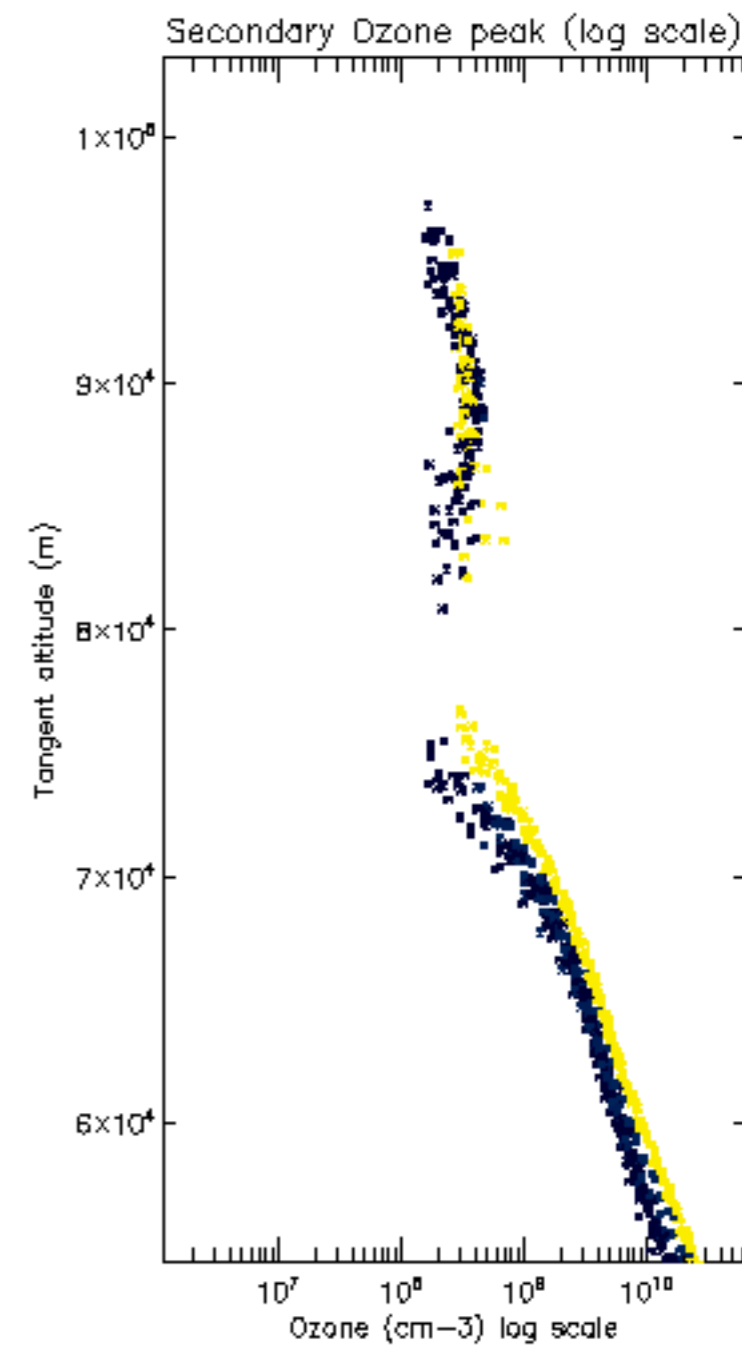
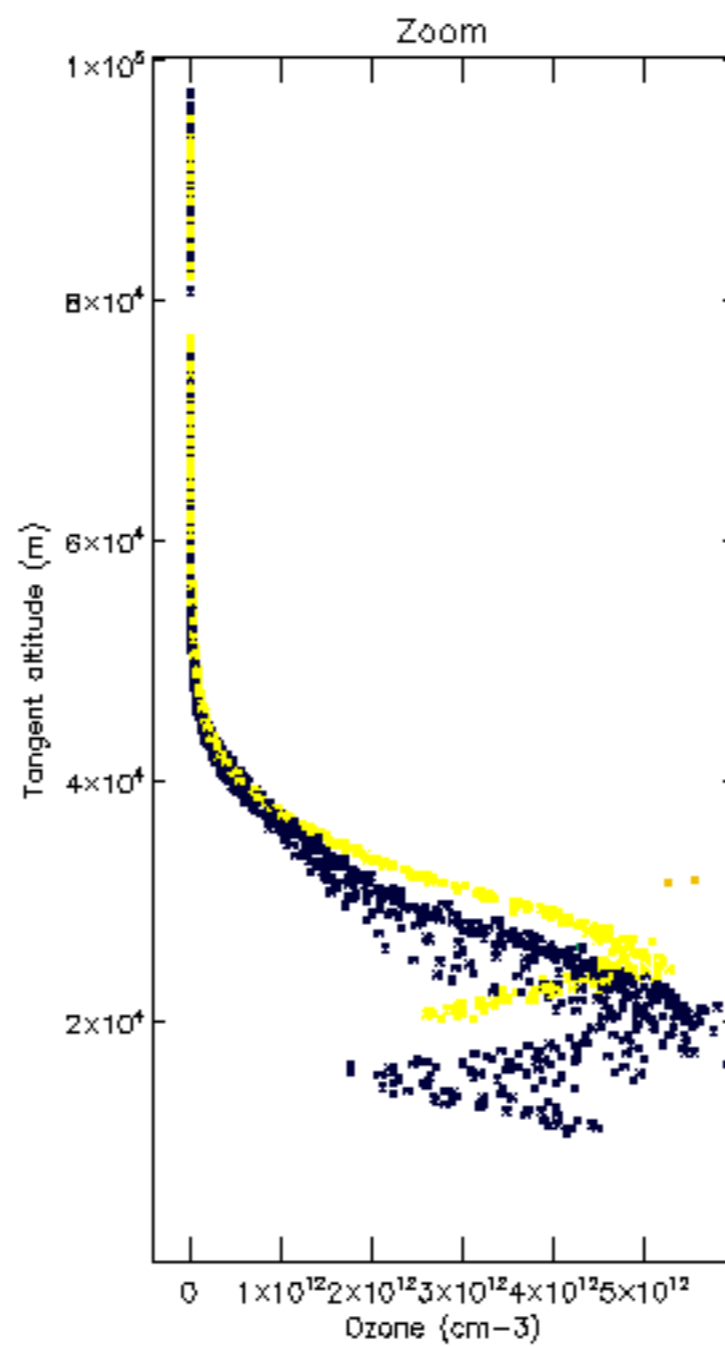
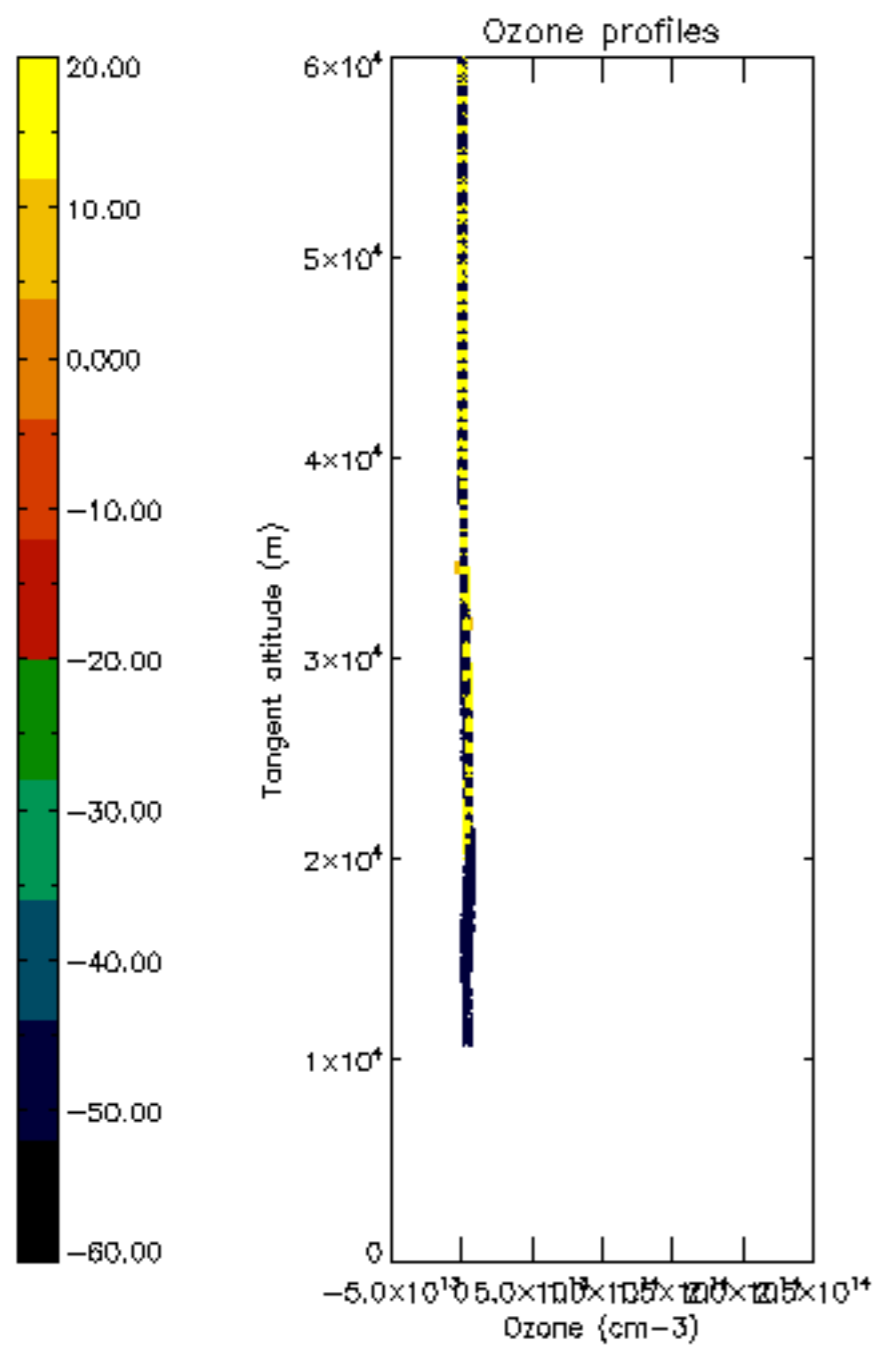
Percentage of saturation errors per profile

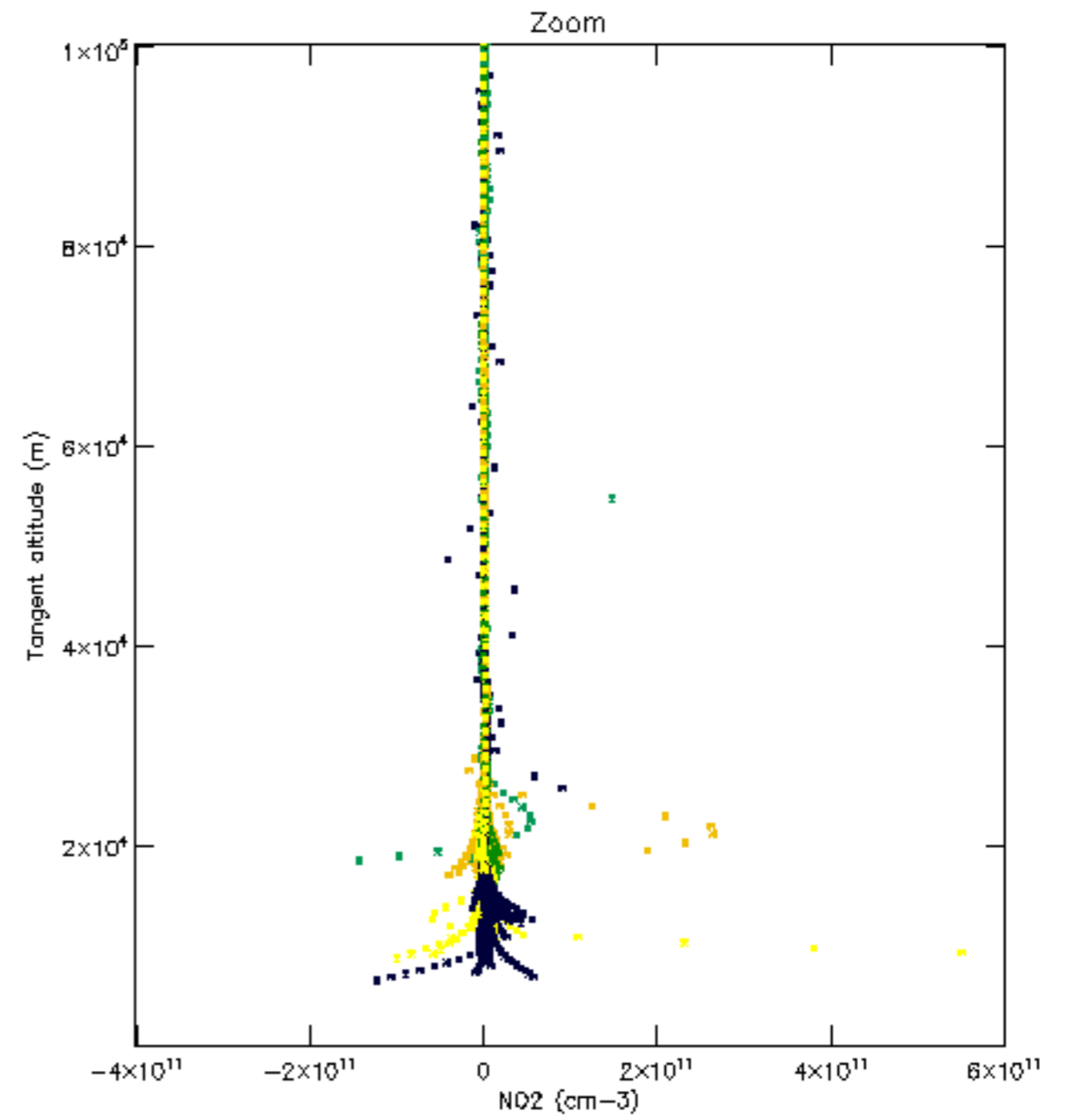
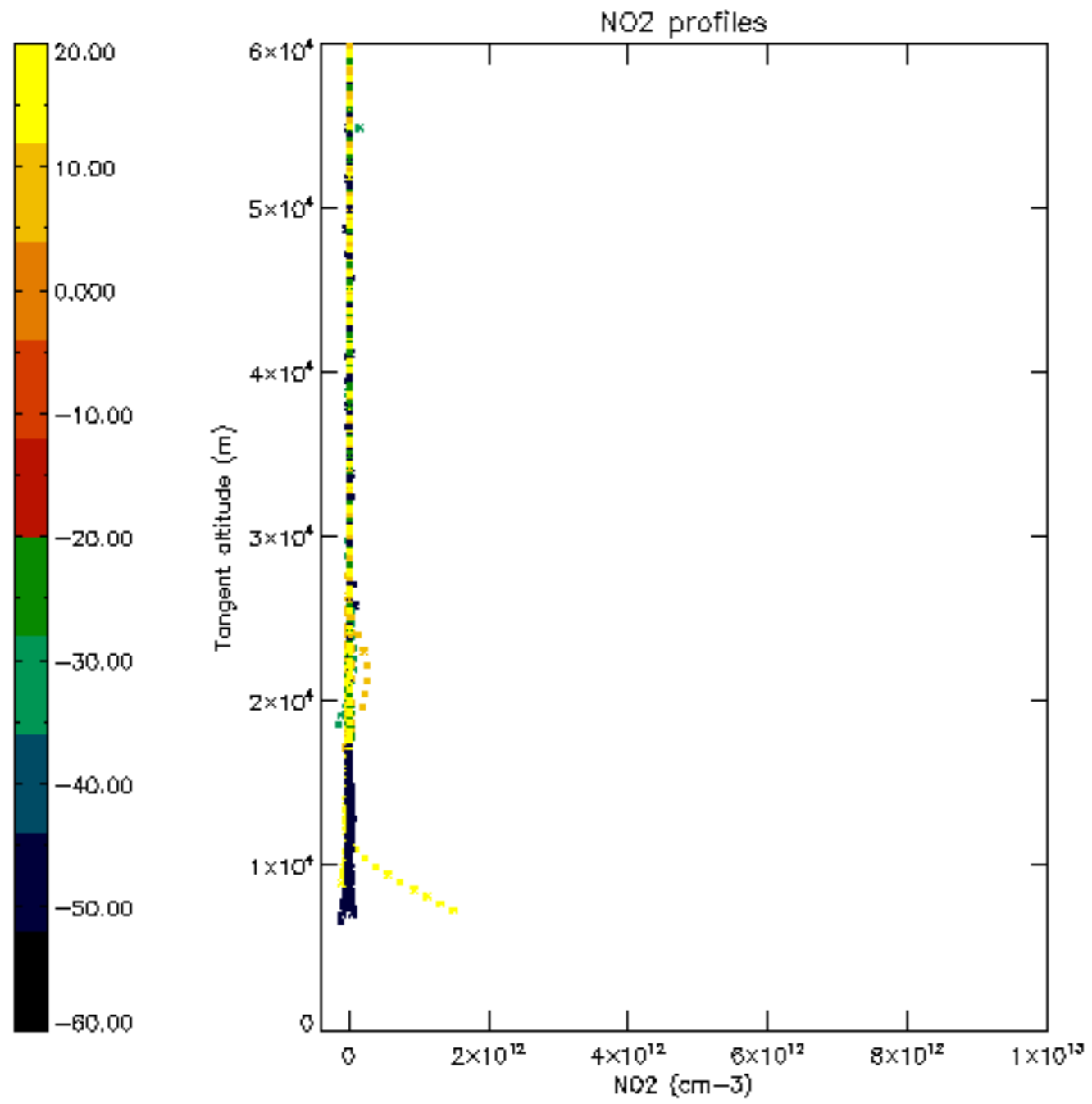


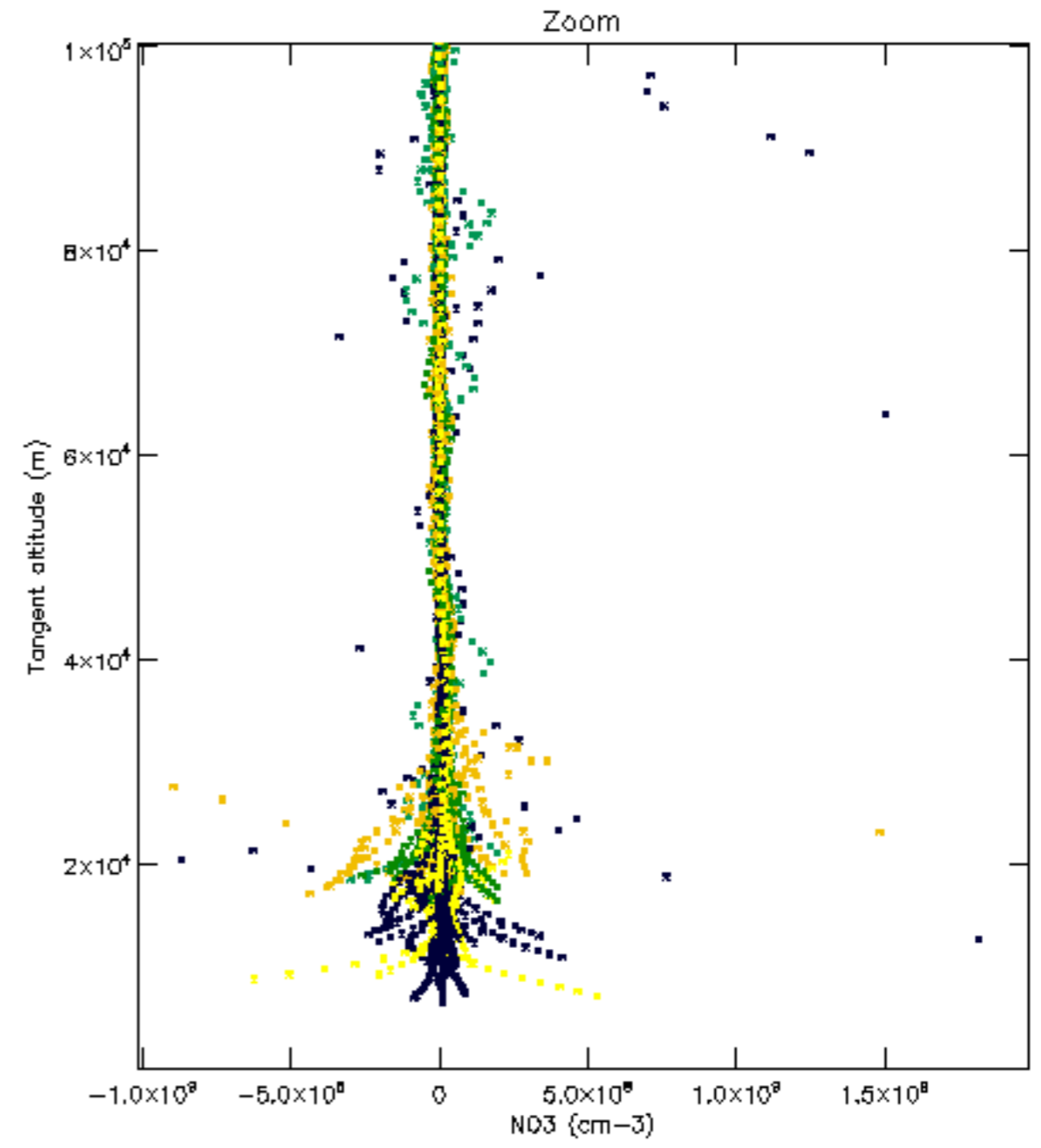
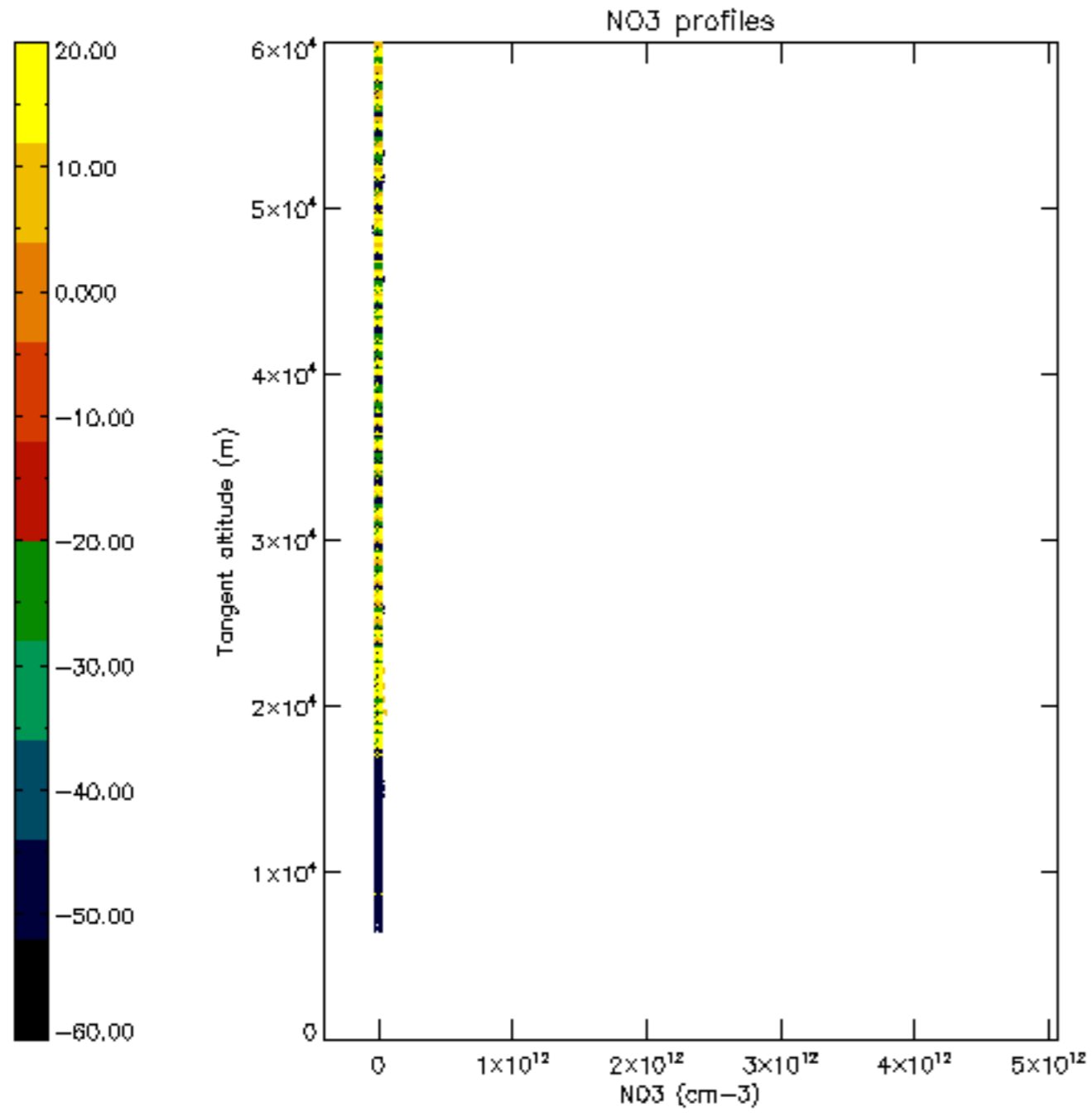


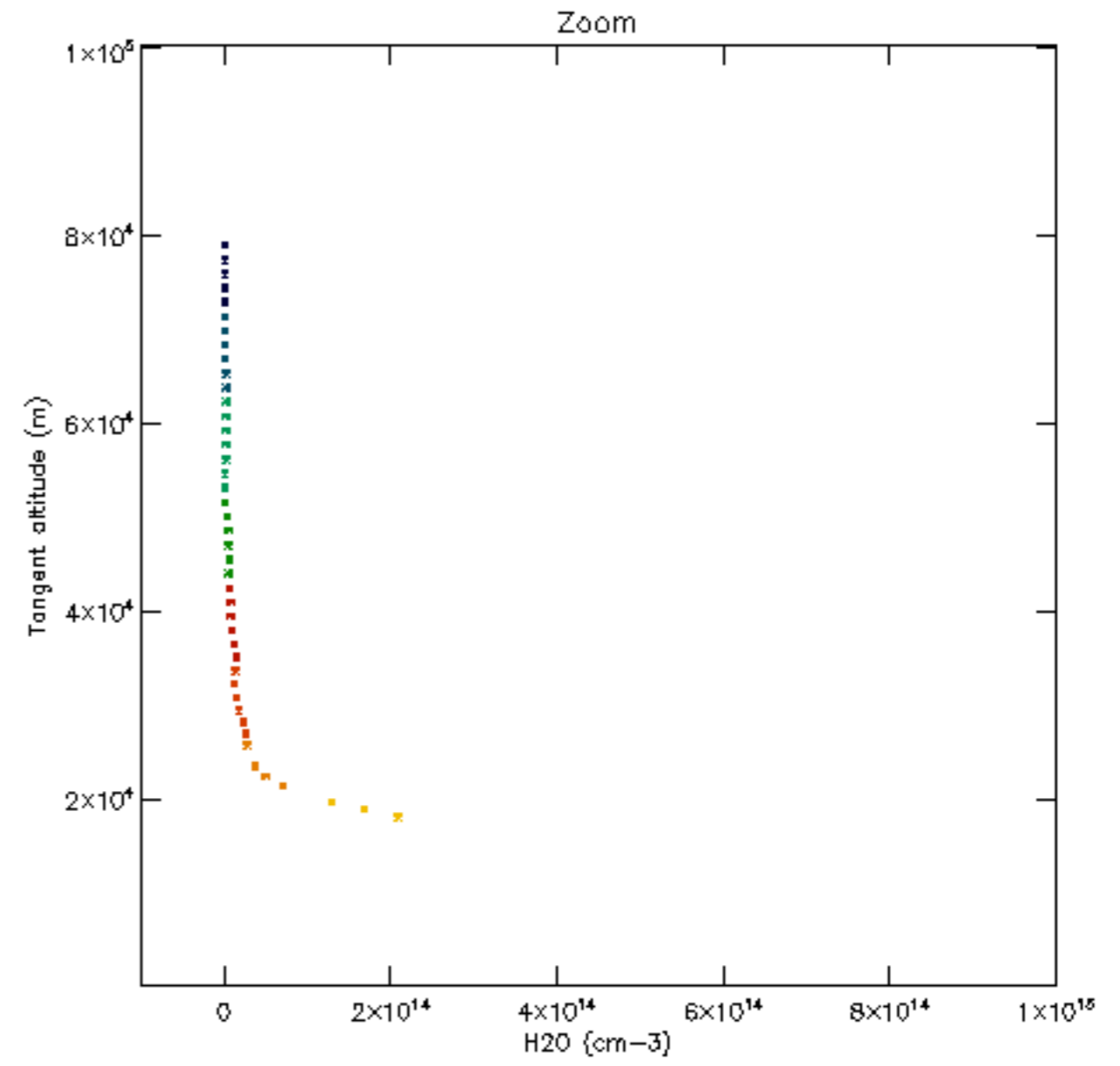
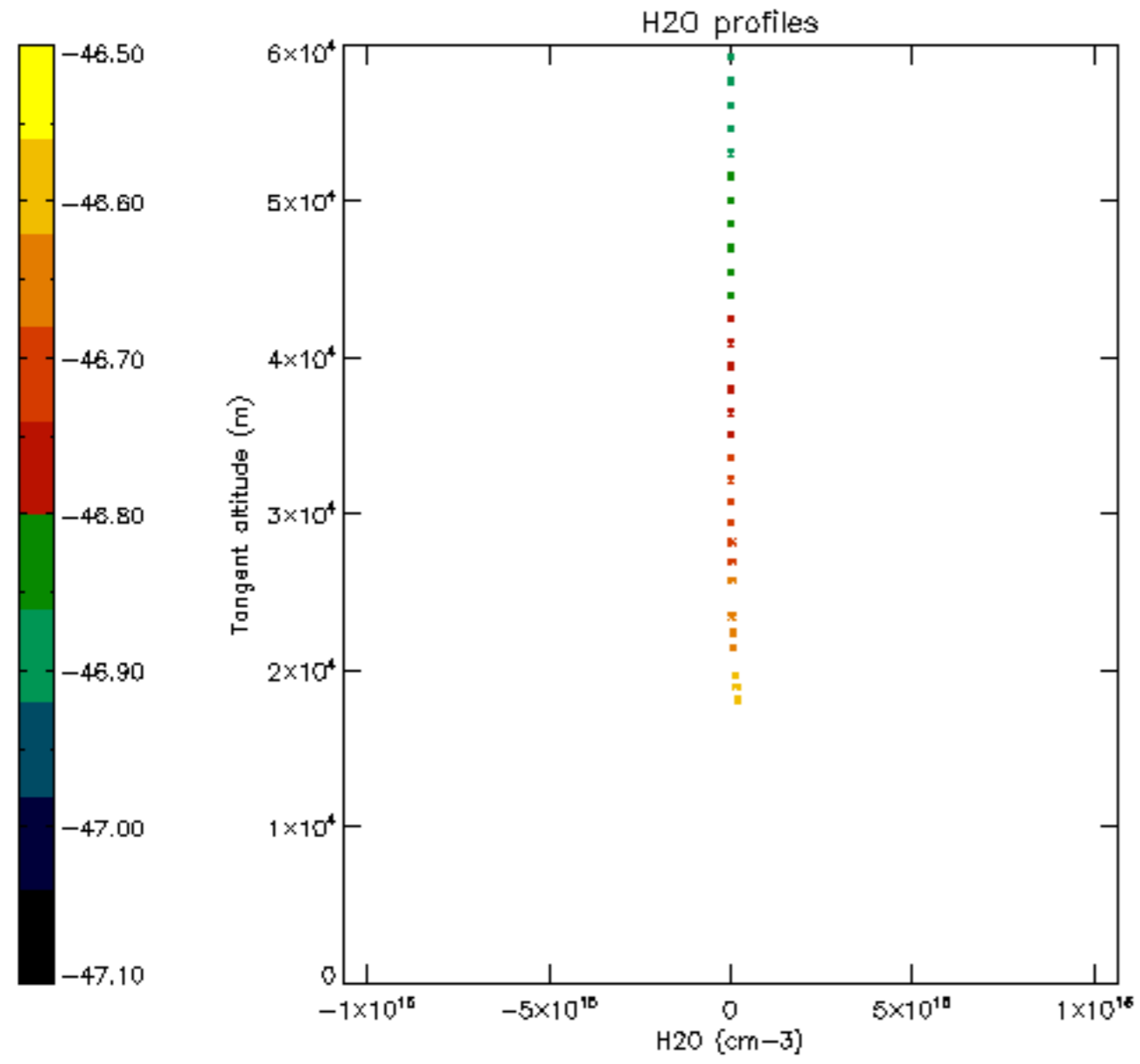


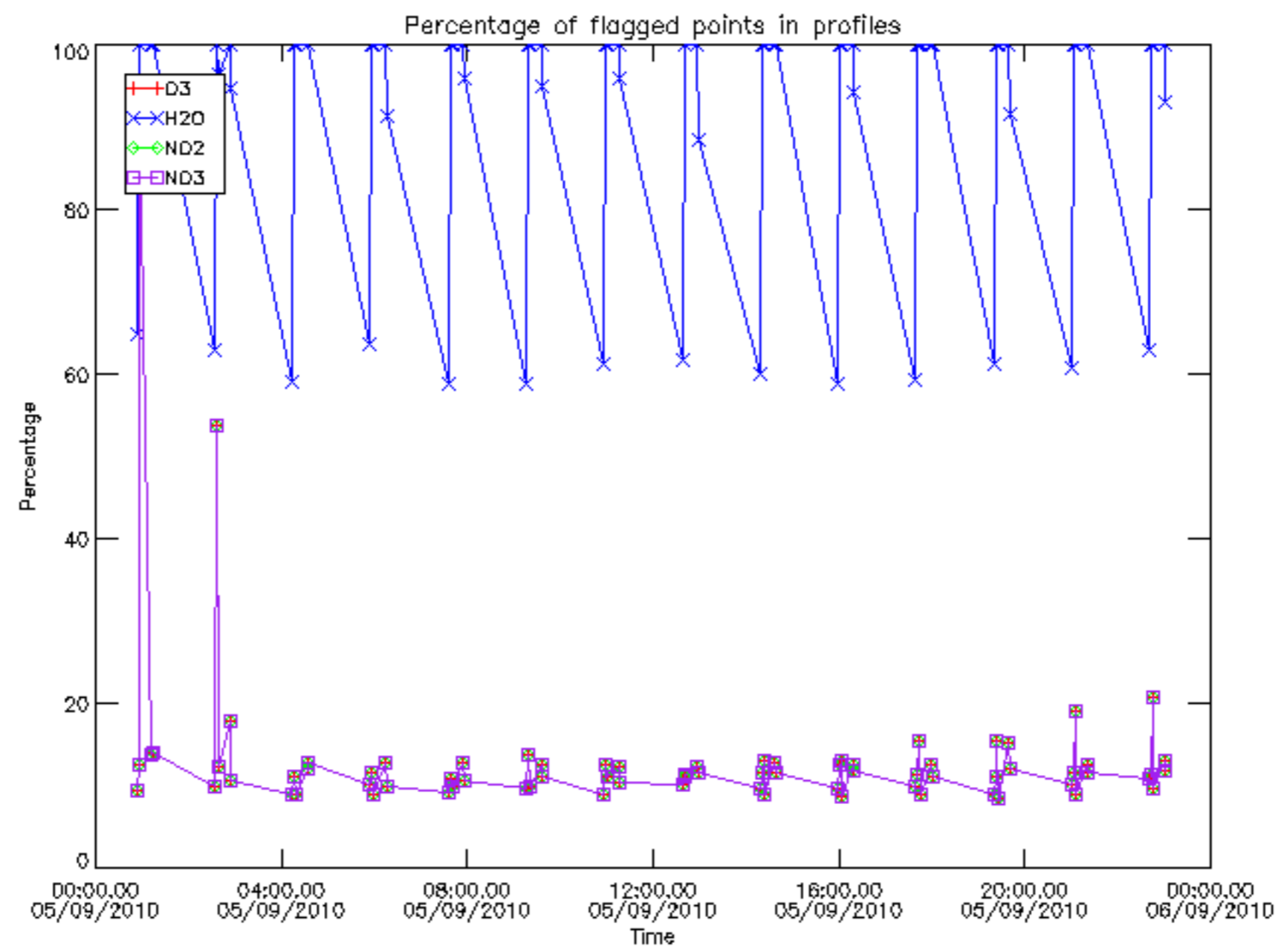




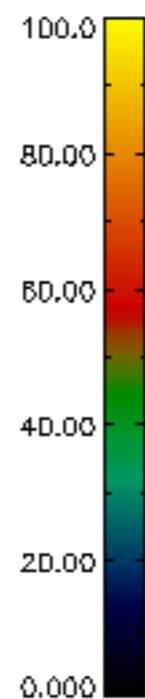
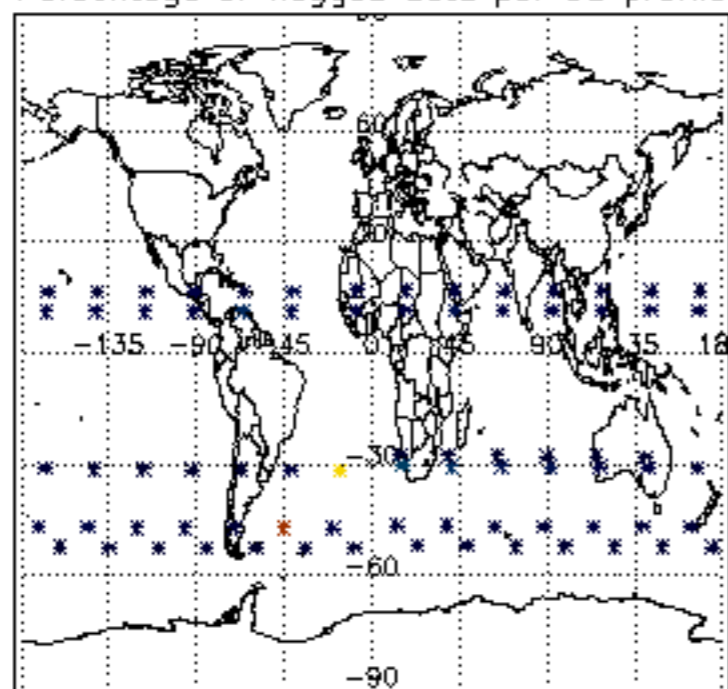




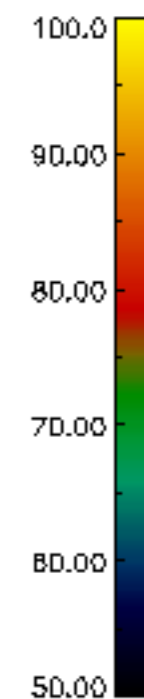
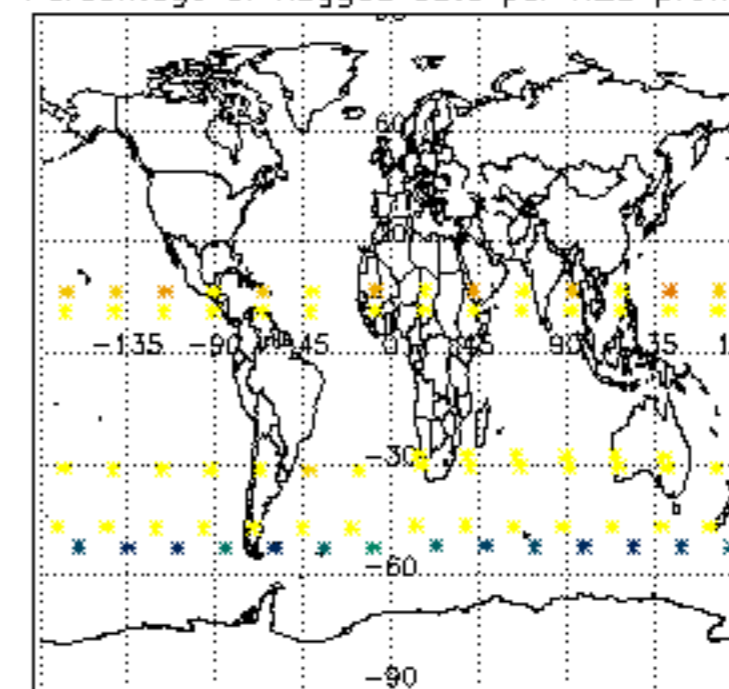




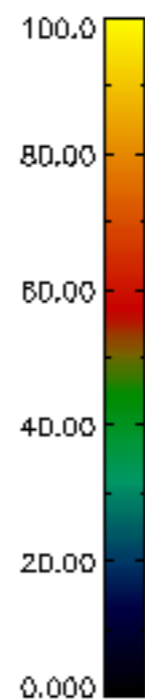
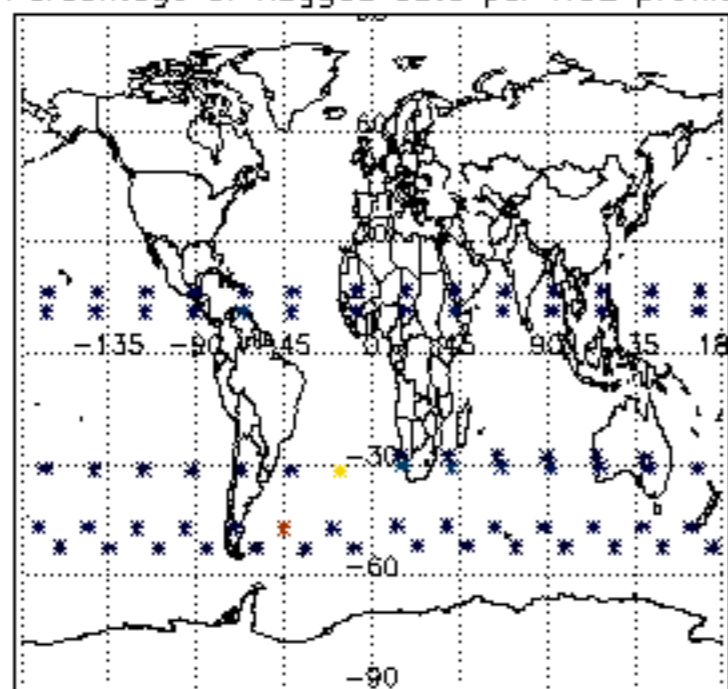
Percentage of flagged data per D3 profile



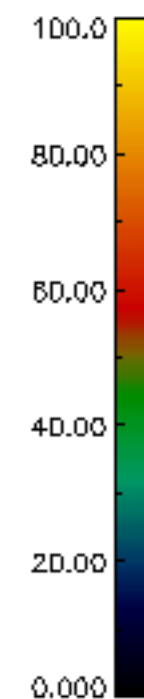
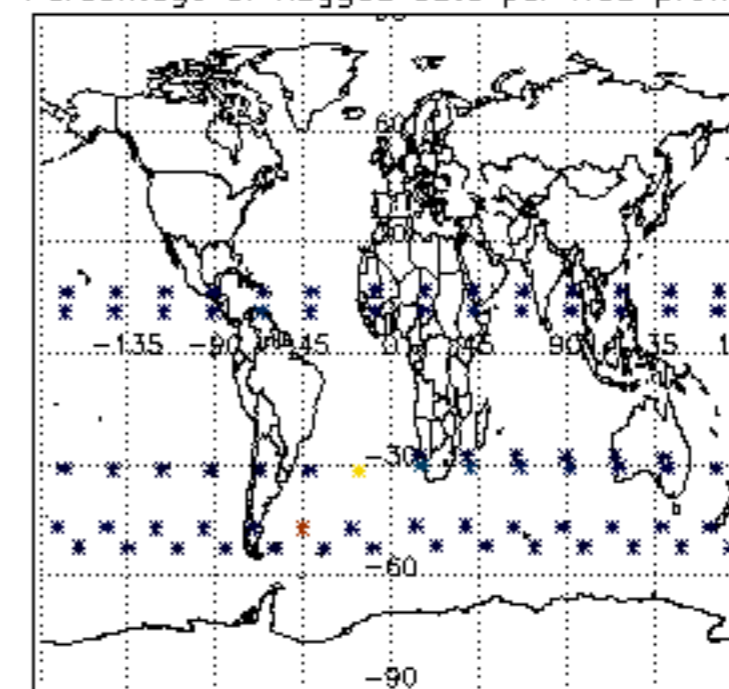
Percentage of flagged data per H2O profile

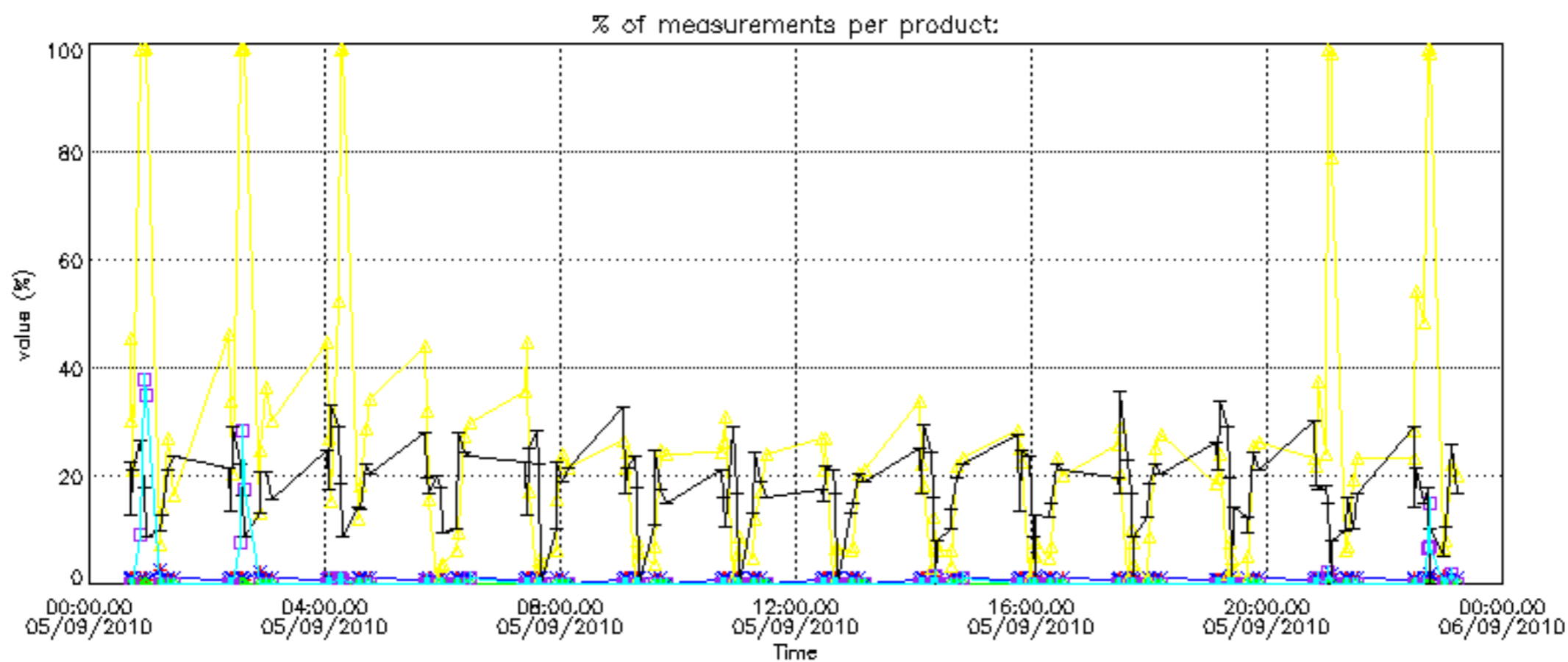


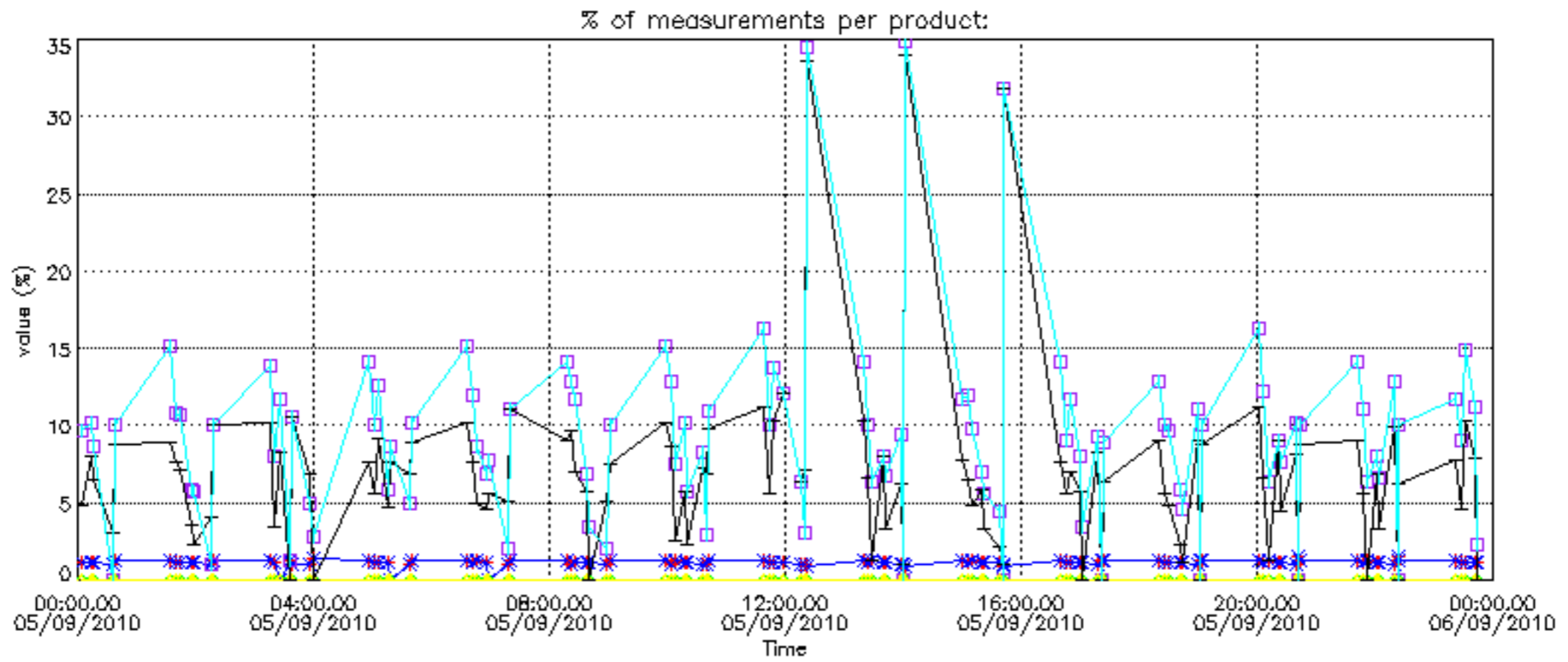
Percentage of flagged data per NO2 profile



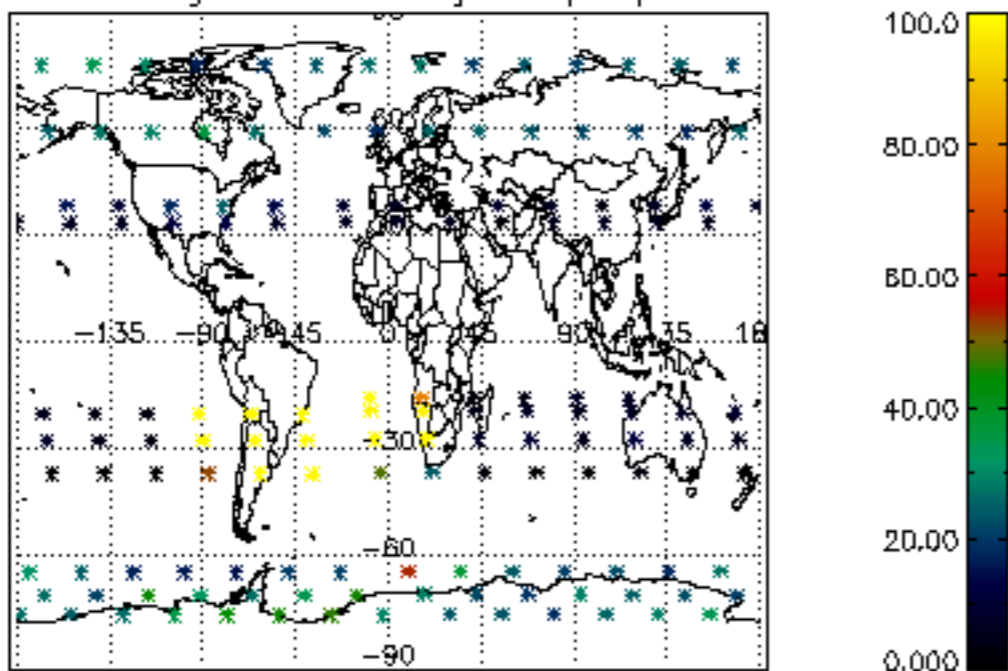
Percentage of flagged data per NO3 profile



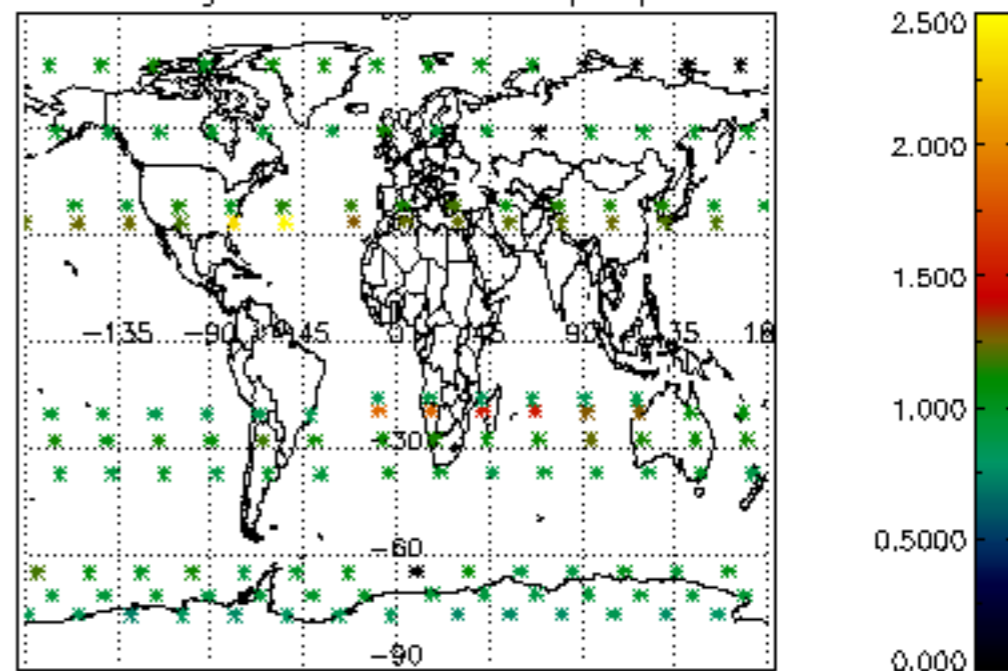




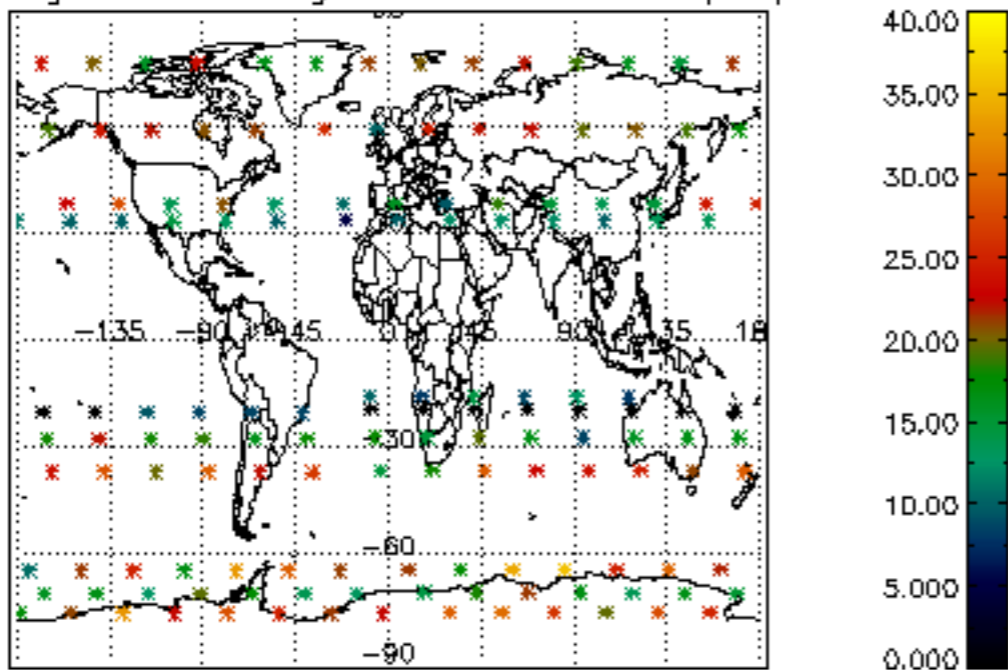
Percentage of cosmic ray hits per profile



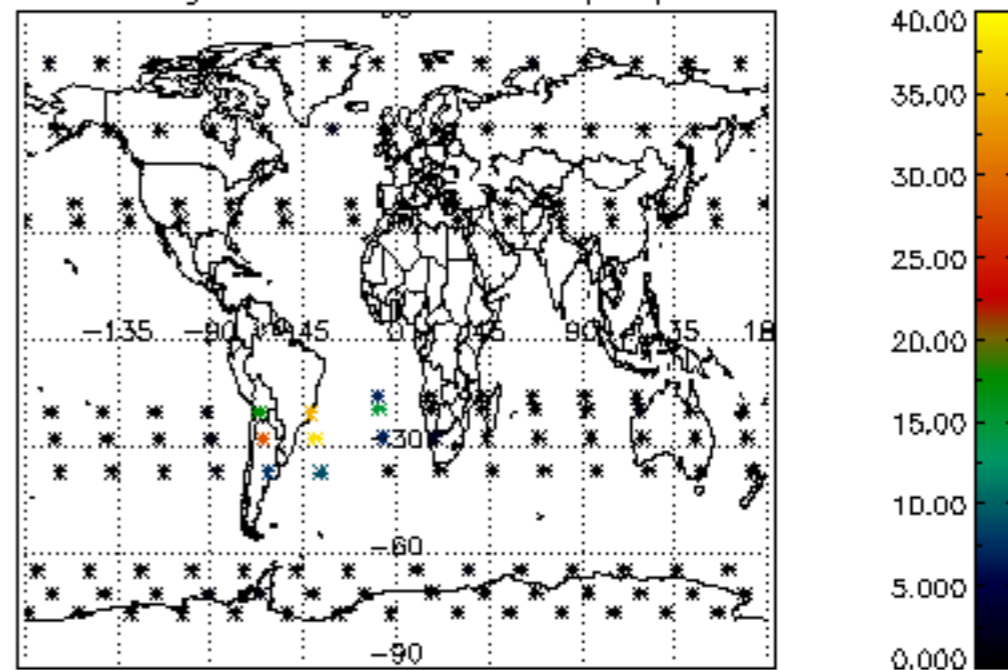
Percentage of datation errors per profile



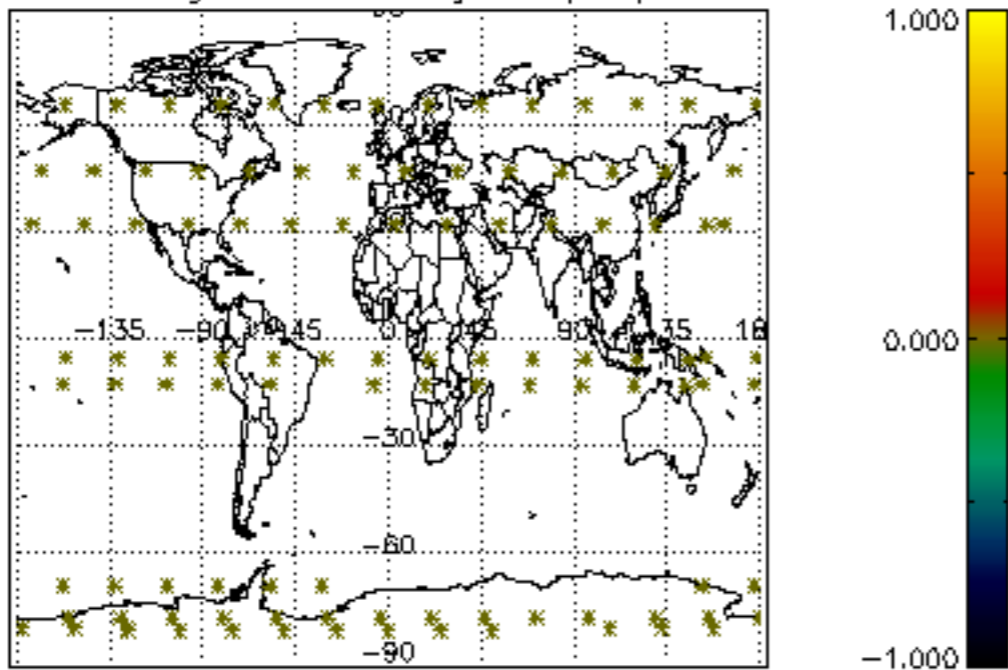
Percentage of star falling outside central band per profile



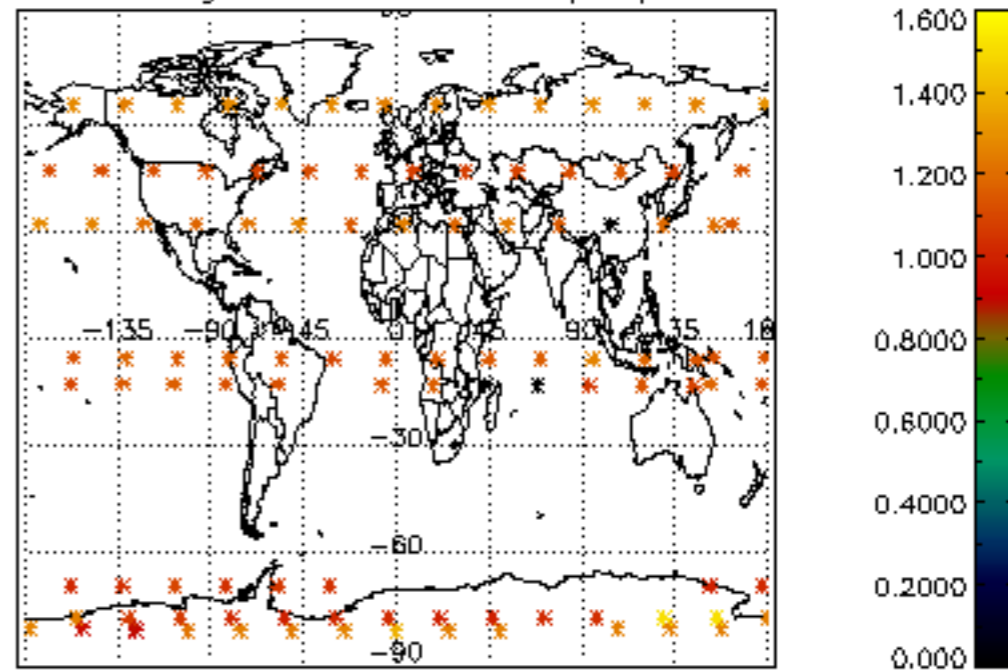
Percentage of saturation errors per profile



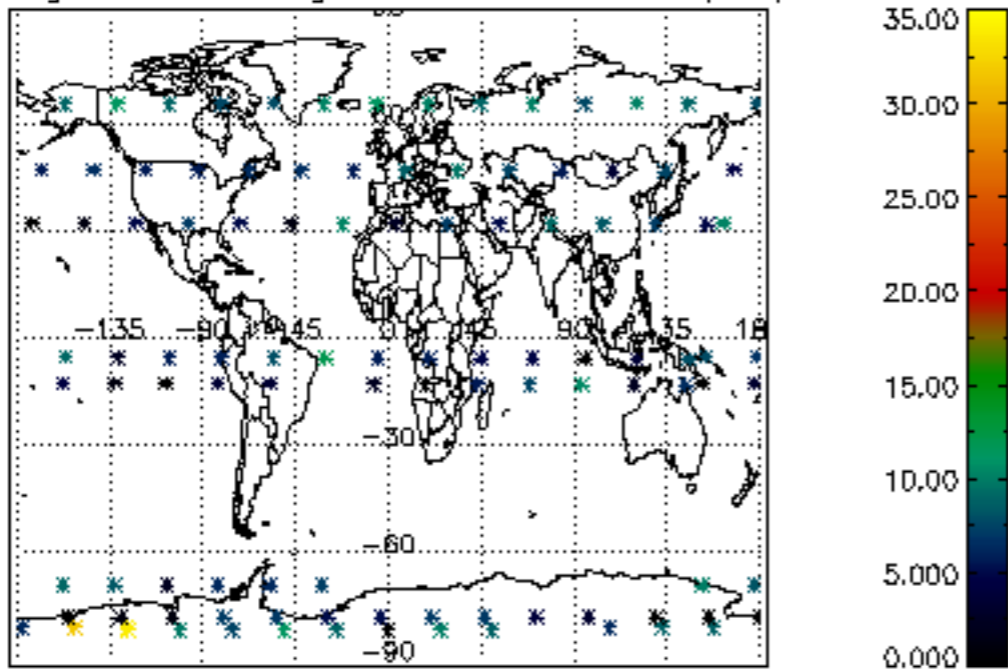
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

