

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 13:59:36
Data source version	GOMOS/6.01
Start time of products	17-11-2009 (17NOV2009 00:00:00)
Stop time of products	18-11-2009 (18NOV2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	266
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

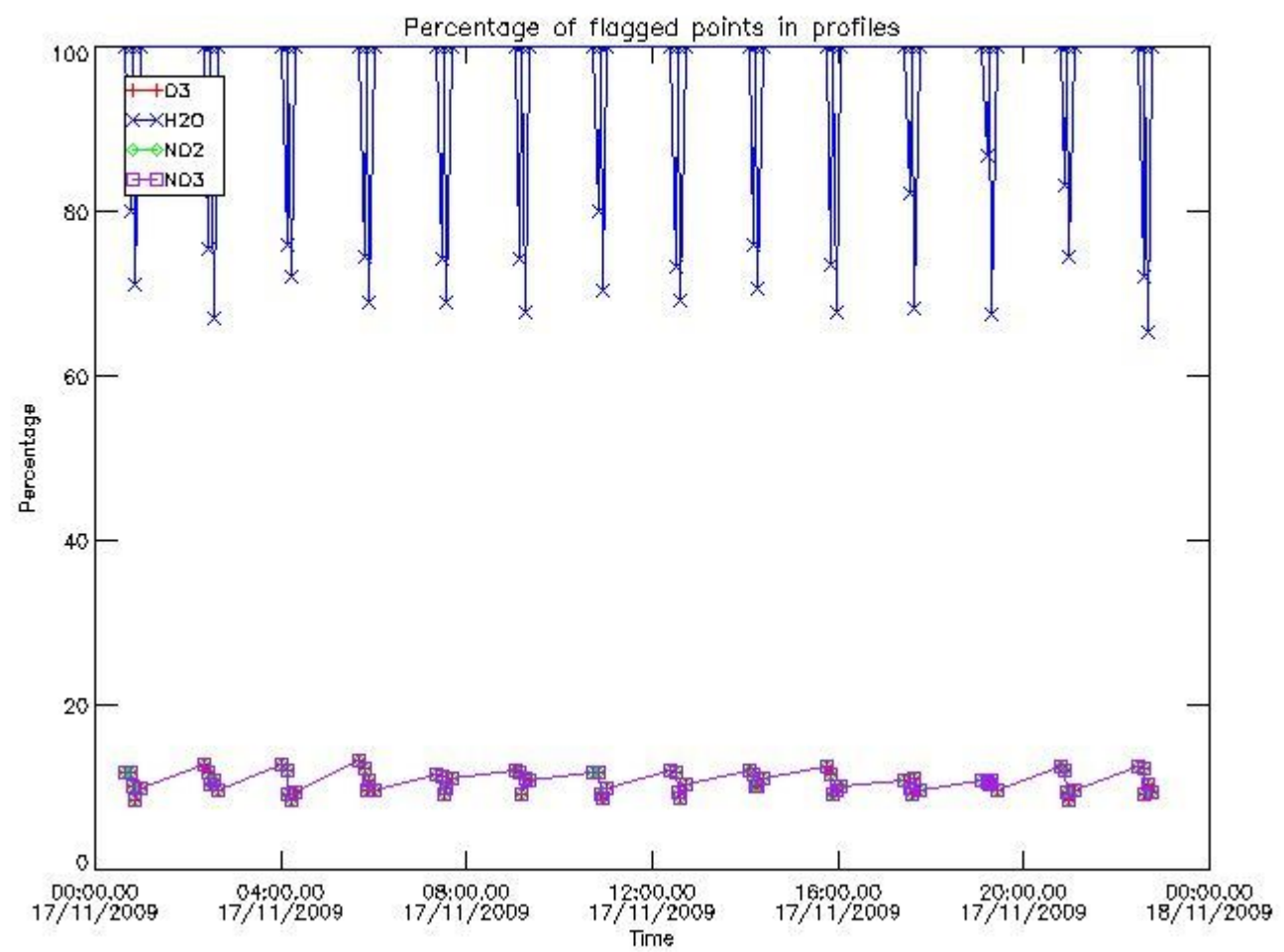
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20091117_000423_000000452084_00202_40336_0931.N1	17-NOV-2009 00:04:23	Bright	44.500	36	50Alp UMa	1.8000	6300.0	89	40336	No
2	GOM_NL__2PRFIN20091117_000602_000000442084_00202_40336_0932.N1	17-NOV-2009 00:06:02	Bright	44.000	82	48Bet UMa	2.3650	10600.	88	40336	No
3	GOM_NL__2PRFIN20091117_001007_000000452084_00202_40336_0933.N1	17-NOV-2009 00:10:07	Bright	45.000	174	52Psi UMa	3.0040	4400.0	90	40336	No
4	GOM_NL__2PRFIN20091117_001157_000000532084_00202_40336_0934.N1	17-NOV-2009 00:11:57	Bright	53.000	152	12Alp2CVn	2.8900	11000.	106	40336	No
5	GOM_NL__2PRFIN20091117_002003_000000622084_00202_40336_0935.N1	17-NOV-2009 00:20:03	Bright	61.500	62	94Bet Leo	2.1360	9700.0	123	40336	No
6	GOM_NL__2PRFIN20091117_002840_000000442084_00202_40336_0936.N1	17-NOV-2009 00:28:40	Twilight	44.000	100	4Gam Crv	2.5800	13100.	88	40336	No
7	GOM_NL__2PRFIN20091117_003011_000000452084_00202_40336_0937.N1	17-NOV-2009 00:30:11	Twilight	44.500	171	2Eps Crv	3.0010	4250.0	89	40336	No
8	GOM_NL__2PRFIN20091117_003928_000000432084_00202_40336_0938.N1	17-NOV-2009 00:39:28	Dark	43.000	113	Mu Vel	2.6920	5000.0	86	40336	No
9	GOM_NL__2PRFIN20091117_004620_000000432084_00203_40337_0930.N1	17-NOV-2009 00:46:20	Dark	43.000	41	Eps Car	1.8600	4100.0	86	40337	No
10	GOM_NL__2PRFIN20091117_004823_000000552084_00203_40337_0931.N1	17-NOV-2009 00:48:23	Dark	55.000	70	Zet Pup	2.2460	39000.	110	40337	No
11	GOM_NL__2PRFIN20091117_005151_000000612084_00203_40337_0932.N1	17-NOV-2009 00:51:51	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	40337	No
12	GOM_NL__2PRFIN20091117_005833_000000522084_00203_40337_0933.N1	17-NOV-2009 00:58:33	Dark	52.000	108	Alp Col	2.6520	15200.	104	40337	No
13	GOM_NL__2PRFIN20091117_010743_000000522084_00203_40337_0934.N1	17-NOV-2009 01:07:43	Straylight	52.000	165	34Gam Eri	2.9500	3200.0	104	40337	No
14	GOM_NL__2PRFIN20091117_011316_000000482084_00203_40337_0935.N1	17-NOV-2009 01:13:16	Twilight	47.500	94	92Alp Cet	2.5260	3100.0	95	40337	No
15	GOM_NL__2PRFIN20091117_012009_000000452084_00203_40337_0936.N1	17-NOV-2009 01:20:09	Bright	45.000	146	25Eta Tau	2.8730	15200.	90	40337	No
16	GOM_NL__2PRFIN20091117_012247_000000442084_00203_40337_0937.N1	17-NOV-2009 01:22:47	Bright	43.500	150	44Zet Per	2.8900	28000.	87	40337	No
17	GOM_NL__2PRFIN20091117_012420_000000392084_00203_40337_0938.N1	17-NOV-2009 01:24:20	Bright	39.000	79	26Bet Per	2.3100	13100.	78	40337	No
18	GOM_NL__2PRFIN20091117_012710_000000392084_00203_40337_0939.N1	17-NOV-2009 01:27:10	Bright	39.000	35	33Alp Per	1.7950	6250.0	78	40337	No
19	GOM_NL__2PRFIN20091117_014459_000000472084_00203_40337_0940.N1	17-NOV-2009 01:44:59	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	40337	No
20	GOM_NL__2PRFIN20091117_014637_000000402084_00203_40337_0941.N1	17-NOV-2009 01:46:37	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	40337	No
21	GOM_NL__2PRFIN20091117_015043_000000582084_00203_40337_0942.N1	17-NOV-2009 01:50:43	Bright	58.000	174	52Psi UMa	3.0040	4400.0	116	40337	No
22	GOM_NL__2PRFIN20091117_015233_000000392084_00203_40337_0943.N1	17-NOV-2009 01:52:33	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	40337	No
23	GOM_NL__2PRFIN20091117_020039_000000452084_00203_40337_0944.N1	17-NOV-2009 02:00:39	Bright	44.500	62	94Bet Leo	2.1360	9700.0	89	40337	No
24	GOM_NL__2PRFIN20091117_020916_000000402084_00203_40337_0945.N1	17-NOV-2009 02:09:16	Twilight	40.000	100	4Gam Crv	2.5800	13100.	80	40337	No
25	GOM_NL__2PRFIN20091117_021048_000000472084_00203_40337_0946.N1	17-NOV-2009 02:10:48	Twilight	46.500	171	2Eps Crv	3.0010	4250.0	93	40337	No
26	GOM_NL__2PRFIN20091117_022005_000000402084_00203_40337_0947.N1	17-NOV-2009 02:20:05	Dark	40.000	113	Mu Vel	2.6920	5000.0	80	40337	No
27	GOM_NL__2PRFIN20091117_022657_000000432084_00204_40338_0939.N1	17-NOV-2009 02:26:57	Dark	43.000	41	Eps Car	1.8600	4100.0	86	40338	No
28	GOM_NL__2PRFIN20091117_022900_000000542084_00204_40338_0940.N1	17-NOV-2009 02:29:00	Dark	54.000	70	Zet Pup	2.2460	39000.	108	40338	No
29	GOM_NL__2PRFIN20091117_023227_000000482084_00204_40338_0941.N1	17-NOV-2009 02:32:27	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	40338	No
30	GOM_NL__2PRFIN20091117_023909_000000532084_00204_40338_0942.N1	17-NOV-2009 02:39:09	Dark	52.500	108	Alp Col	2.6520	15200.	105	40338	No
31	GOM_NL__2PRFIN20091117_024819_000000512084_00204_40338_0943.N1	17-NOV-2009 02:48:19	Straylight	51.000	165	34Gam Eri	2.9500	3200.0	102	40338	No
32	GOM_NL__2PRFIN20091117_025351_000000482084_00204_40338_0944.N1	17-NOV-2009 02:53:51	Twilight	47.500	94	92Alp Cet	2.5260	3100.0	95	40338	No
33	GOM_NL__2PRFIN20091117_030045_000000442084_00204_40338_0945.N1	17-NOV-2009 03:00:45	Bright	43.500	146	25Eta Tau	2.8730	15200.	87	40338	No
34	GOM_NL__2PRFIN20091117_030322_000000452084_00204_40338_0946.N1	17-NOV-2009 03:03:22	Bright	44.500	150	44Zet Per	2.8900	28000.	89	40338	No
35	GOM_NL__2PRFIN20091117_030455_000000402084_00204_40338_0947.N1	17-NOV-2009 03:04:55	Bright	40.000	79	26Bet Per	2.3100	13100.	80	40338	No
36	GOM_NL__2PRFIN20091117_030746_000000382084_00204_40338_0948.N1	17-NOV-2009 03:07:46	Bright	38.000	35	33Alp Per	1.7950	6250.0	76	40338	No
37	GOM_NL__2PRFIN20091117_032535_000000472084_00204_40338_0949.N1	17-NOV-2009 03:25:35	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	40338	No
38	GOM_NL__2PRFIN20091117_032713_000000462084_00204_40338_0950.N1	17-NOV-2009 03:27:13	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	40338	No
39	GOM_NL__2PRFIN20091117_033118_000000442084_00204_40338_0951.N1	17-NOV-2009 03:31:18	Bright	43.500	174	52Psi UMa	3.0040	4400.0	87	40338	No
40	GOM_NL__2PRFIN20091117_033309_000000362084_00204_40338_0952.N1	17-NOV-2009 03:33:09	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	40338	No
41	GOM_NL__2PRFIN20091117_034116_000000622084_00204_40338_0953.N1	17-NOV-2009 03:41:16	Bright	62.000	62	94Bet Leo	2.1360	9700.0	124	40338	No
42	GOM_NL__2PRFIN20091117_034953_000000462084_00204_40338_0954.N1	17-NOV-2009 03:49:53	Twilight	46.000	100	4Gam Crv	2.5800	13100.	92	40338	No

220	GOM_NL__2PRFIN20091117_195342_000000392084_00214_40348_1061.N1	17-NOV-2009 19:53:42	Bright	39.000	35	33Alp Per	1.7950	6250.0	78	40348	No
221	GOM_NL__2PRFIN20091117_201132_000000462084_00214_40348_1062.N1	17-NOV-2009 20:11:32	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	40348	No
222	GOM_NL__2PRFIN20091117_201311_000000422084_00214_40348_1063.N1	17-NOV-2009 20:13:11	Bright	42.000	82	48Bet UMa	2.3650	10600.	84	40348	No
223	GOM_NL__2PRFIN20091117_201717_000000542084_00214_40348_1064.N1	17-NOV-2009 20:17:17	Bright	53.500	174	52Psi UMa	3.0040	4400.0	107	40348	No
224	GOM_NL__2PRFIN20091117_201910_000000342084_00214_40348_1065.N1	17-NOV-2009 20:19:10	Bright	33.500	152	12Alp2CVn	2.8900	11000.	67	40348	No
225	GOM_NL__2PRFIN20091117_202609_000000602084_00214_40348_1066.N1	17-NOV-2009 20:26:09	Bright	60.000	96	68Del Leo	2.5600	9300.0	120	40348	No
226	GOM_NL__2PRFIN20091117_203051_000000352084_00214_40348_1067.N1	17-NOV-2009 20:30:51	Bright	35.000	121	29Gam Vir	2.7400	7200.0	70	40348	No
227	GOM_NL__2PRFIN20091117_203557_000000442084_00214_40348_1068.N1	17-NOV-2009 20:35:57	Twilight	43.500	100	4Gam Crv	2.5800	13100.	87	40348	No
228	GOM_NL__2PRFIN20091117_203728_000000422084_00214_40348_1069.N1	17-NOV-2009 20:37:28	Twilight	42.000	171	2Eps Crv	3.0010	4250.0	84	40348	No
229	GOM_NL__2PRFIN20091117_204647_000000412084_00214_40348_1070.N1	17-NOV-2009 20:46:47	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	40348	No
230	GOM_NL__2PRFIN20091117_205339_000000422084_00215_40349_1061.N1	17-NOV-2009 20:53:39	Dark	42.000	41	Eps Car	1.8600	4100.0	84	40349	No
231	GOM_NL__2PRFIN20091117_205549_000000552084_00215_40349_1062.N1	17-NOV-2009 20:55:49	Dark	54.500	70	Zet Pup	2.2460	39000.	109	40349	No
232	GOM_NL__2PRFIN20091117_205910_000000612084_00215_40349_1063.N1	17-NOV-2009 20:59:10	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	40349	No
233	GOM_NL__2PRFIN20091117_210551_000000532084_00215_40349_1064.N1	17-NOV-2009 21:05:51	Dark	52.500	108	Alp Col	2.6520	15200.	105	40349	No
234	GOM_NL__2PRFIN20091117_211455_000000512084_00215_40349_1065.N1	17-NOV-2009 21:14:55	Straylight	50.500	165	34Gam Eri	2.9500	3200.0	101	40349	No
235	GOM_NL__2PRFIN20091117_212026_000000452084_00215_40349_1066.N1	17-NOV-2009 21:20:26	Twilight	45.000	94	92Alp Cet	2.5260	3100.0	90	40349	No
236	GOM_NL__2PRFIN20091117_212715_000000452084_00215_40349_1067.N1	17-NOV-2009 21:27:15	Bright	45.000	146	25Eta Tau	2.8730	15200.	90	40349	No
237	GOM_NL__2PRFIN20091117_212952_000000432084_00215_40349_1068.N1	17-NOV-2009 21:29:52	Bright	42.500	150	44Zet Per	2.8900	28000.	85	40349	No
238	GOM_NL__2PRFIN20091117_213128_000000382084_00215_40349_1069.N1	17-NOV-2009 21:31:28	Bright	37.500	79	26Bet Per	2.3100	13100.	75	40349	No
239	GOM_NL__2PRFIN20091117_213417_000000382084_00215_40349_1070.N1	17-NOV-2009 21:34:17	Bright	38.000	35	33Alp Per	1.7950	6250.0	76	40349	No
240	GOM_NL__2PRFIN20091117_215208_000000472084_00215_40349_1071.N1	17-NOV-2009 21:52:08	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	40349	No
241	GOM_NL__2PRFIN20091117_215346_000000452084_00215_40349_1072.N1	17-NOV-2009 21:53:46	Bright	45.000	82	48Bet UMa	2.3650	10600.	90	40349	No
242	GOM_NL__2PRFIN20091117_215752_000000462084_00215_40349_1073.N1	17-NOV-2009 21:57:52	Bright	46.000	174	52Psi UMa	3.0040	4400.0	92	40349	No
243	GOM_NL__2PRFIN20091117_215946_000000542084_00215_40349_1074.N1	17-NOV-2009 21:59:46	Bright	54.000	152	12Alp2CVn	2.8900	11000.	108	40349	No
244	GOM_NL__2PRFIN20091117_220646_000000512084_00215_40349_1075.N1	17-NOV-2009 22:06:46	Bright	51.000	96	68Del Leo	2.5600	9300.0	102	40349	No
245	GOM_NL__2PRFIN20091117_221127_000000542084_00215_40349_1076.N1	17-NOV-2009 22:11:27	Bright	53.500	121	29Gam Vir	2.7400	7200.0	107	40349	No
246	GOM_NL__2PRFIN20091117_221633_000000422084_00215_40349_1077.N1	17-NOV-2009 22:16:33	Twilight	42.000	100	4Gam Crv	2.5800	13100.	84	40349	No
247	GOM_NL__2PRFIN20091117_221805_000000482084_00215_40349_1078.N1	17-NOV-2009 22:18:05	Twilight	47.500	171	2Eps Crv	3.0010	4250.0	95	40349	No
248	GOM_NL__2PRFIN20091117_222724_000000412084_00215_40349_1079.N1	17-NOV-2009 22:27:24	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	40349	No
249	GOM_NL__2PRFIN20091117_223416_000000422084_00216_40350_1070.N1	17-NOV-2009 22:34:16	Dark	41.500	41	Eps Car	1.8600	4100.0	83	40350	No
250	GOM_NL__2PRFIN20091117_223626_000000552084_00216_40350_1071.N1	17-NOV-2009 22:36:26	Dark	55.000	70	Zet Pup	2.2460	39000.	110	40350	No
251	GOM_NL__2PRFIN20091117_223946_000000502084_00216_40350_1072.N1	17-NOV-2009 22:39:46	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	40350	No
252	GOM_NL__2PRFIN20091117_224628_000000542084_00216_40350_1073.N1	17-NOV-2009 22:46:28	Dark	54.000	108	Alp Col	2.6520	15200.	108	40350	No
253	GOM_NL__2PRFIN20091117_225530_000000512084_00216_40350_1074.N1	17-NOV-2009 22:55:30	Straylight	50.500	165	34Gam Eri	2.9500	3200.0	101	40350	No
254	GOM_NL__2PRFIN20091117_230102_000000462084_00216_40350_1075.N1	17-NOV-2009 23:01:02	Twilight	46.000	94	92Alp Cet	2.5260	3100.0	92	40350	No
255	GOM_NL__2PRFIN20091117_230751_000000432084_00216_40350_1076.N1	17-NOV-2009 23:07:51	Bright	42.500	146	25Eta Tau	2.8730	15200.	85	40350	No
256	GOM_NL__2PRFIN20091117_231027_000000442084_00216_40350_1077.N1	17-NOV-2009 23:10:27	Bright	43.500	150	44Zet Per	2.8900	28000.	87	40350	No
257	GOM_NL__2PRFIN20091117_231203_000000562084_00216_40350_1078.N1	17-NOV-2009 23:12:03	Bright	56.000	79	26Bet Per	2.3100	13100.	112	40350	No
258	GOM_NL__2PRFIN20091117_231453_000000392084_00216_40350_1079.N1	17-NOV-2009 23:14:53	Bright	38.500	35	33Alp Per	1.7950	6250.0	77	40350	No
259	GOM_NL__2PRFIN20091117_233243_000000462084_00216_40350_1080.N1	17-NOV-2009 23:32:43	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	40350	No
260	GOM_NL__2PRFIN20091117_233422_000000412084_00216_40350_1081.N1	17-NOV-2009 23:34:22	Bright	40.500	82	48Bet UMa	2.3650	10600.	81	40350	No
261	GOM_NL__2PRFIN20091117_233828_000000462084_00216_40350_1082.N1	17-NOV-2009 23:38:28	Bright	45.500	174	52Psi UMa	3.0040	4400.0	91	40350	No
262	GOM_NL__2PRFIN20091117_234021_000000352084_00216_40350_1083.N1	17-NOV-2009 23:40:21	Bright	34.500	152	12Alp2CVn	2.8900	11000.	69	40350	No
263	GOM_NL__2PRFIN20091117_234721_000000502084_00216_40350_1084.N1	17-NOV-2009 23:47:21	Bright	49.500	96	68Del Leo	2.5600	9300.0	99	40350	No
264	GOM_NL__2PRFIN20091117_235203_000000542084_00216_40350_1085.N1	17-NOV-2009 23:52:03	Bright	54.000	121	29Gam Vir	2.7400	7200.0	108	40350	No
265	GOM_NL__2PRFIN20091117_235710_000000392084_00216_40350_1086.N1	17-NOV-2009 23:57:10	Twilight	39.000	100	4Gam Crv	2.5800	13100.	78	40350	No
266	GOM_NL__2PRFIN20091117_235841_000000462084_00216_40350_1087.N1	17-NOV-2009 23:58:41	Twilight	46.000	171	2Eps Crv	3.0010	4250.0	92	40350	No

3. Quality information per product

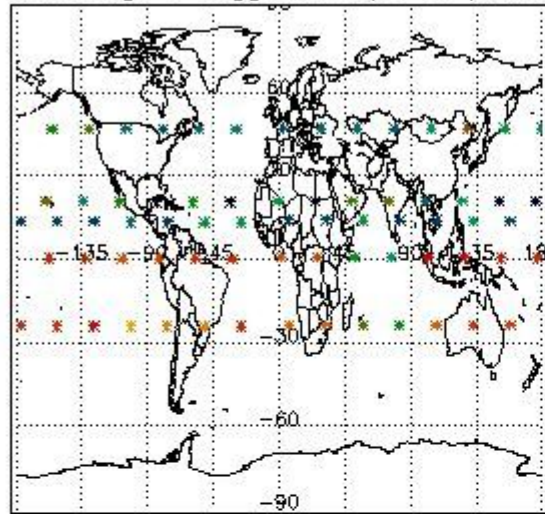
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

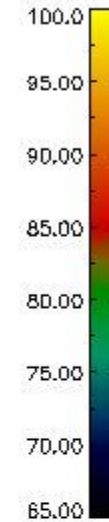
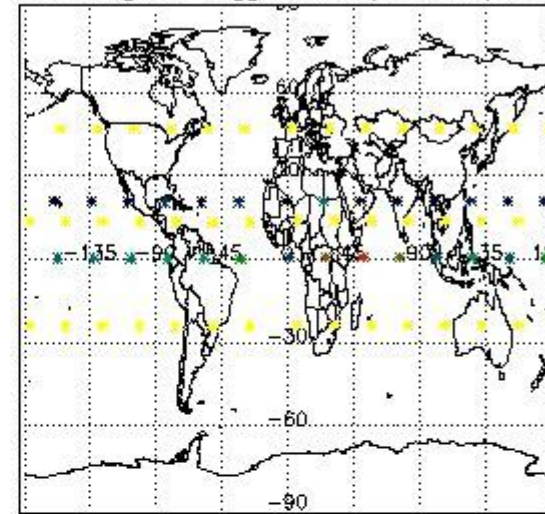


3.2 Plot quality information per product (world map)

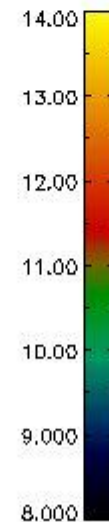
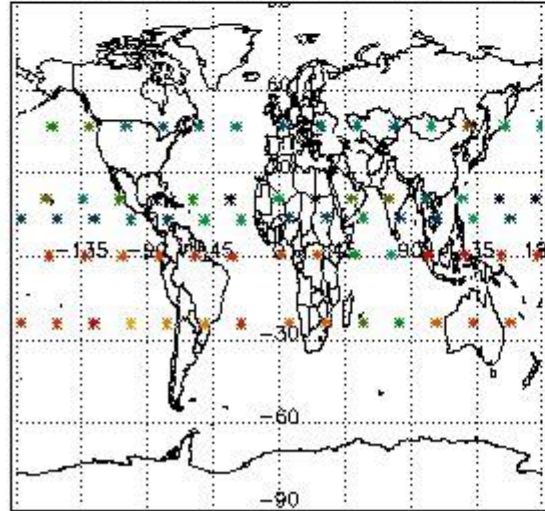
Percentage of flagged data per O3 profile



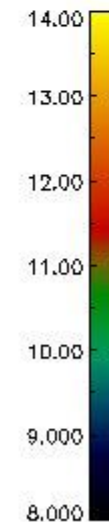
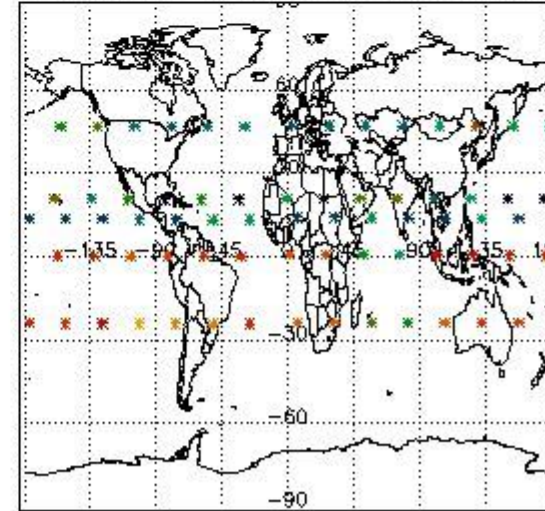
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

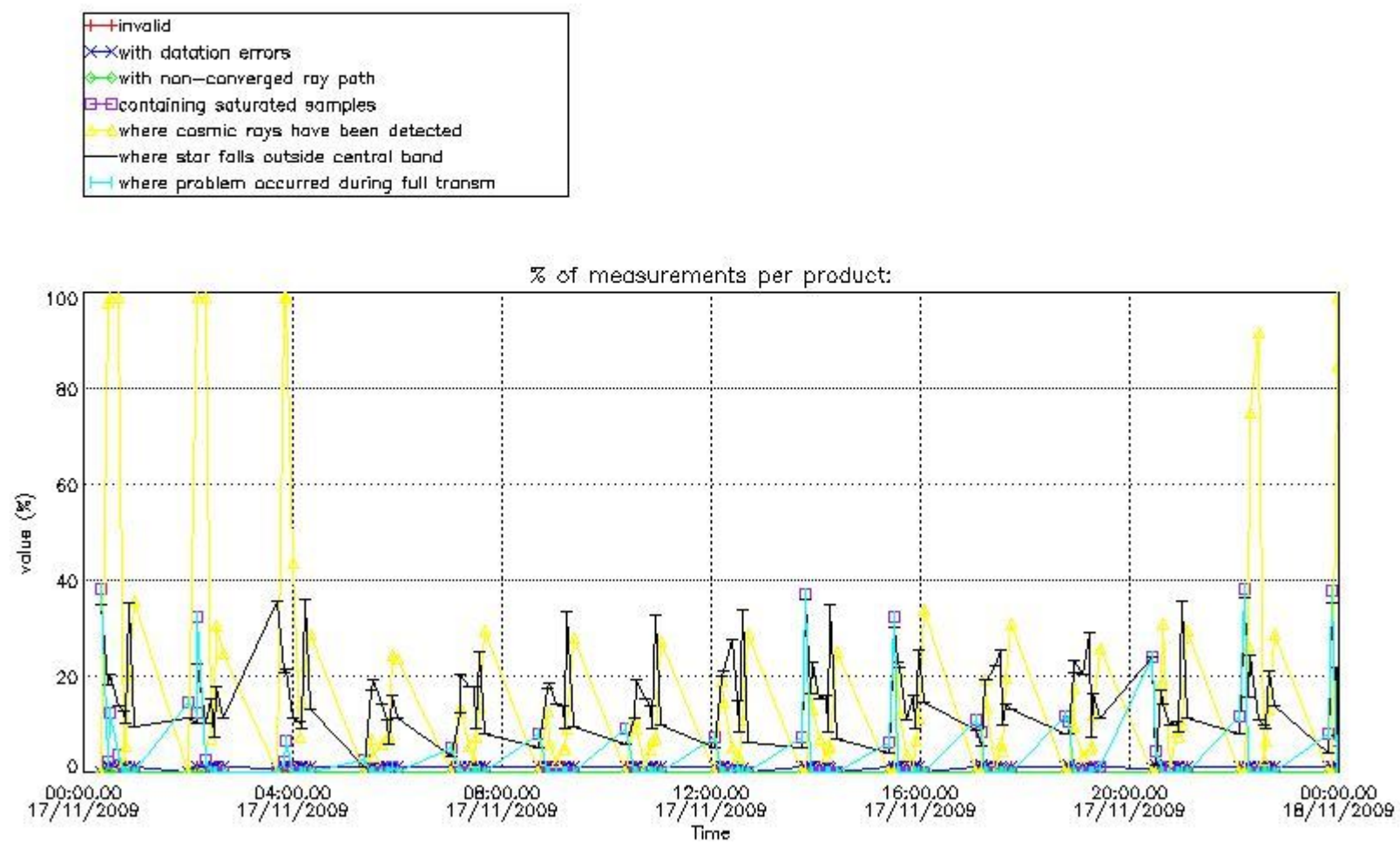


4. Level 1 quality information per product

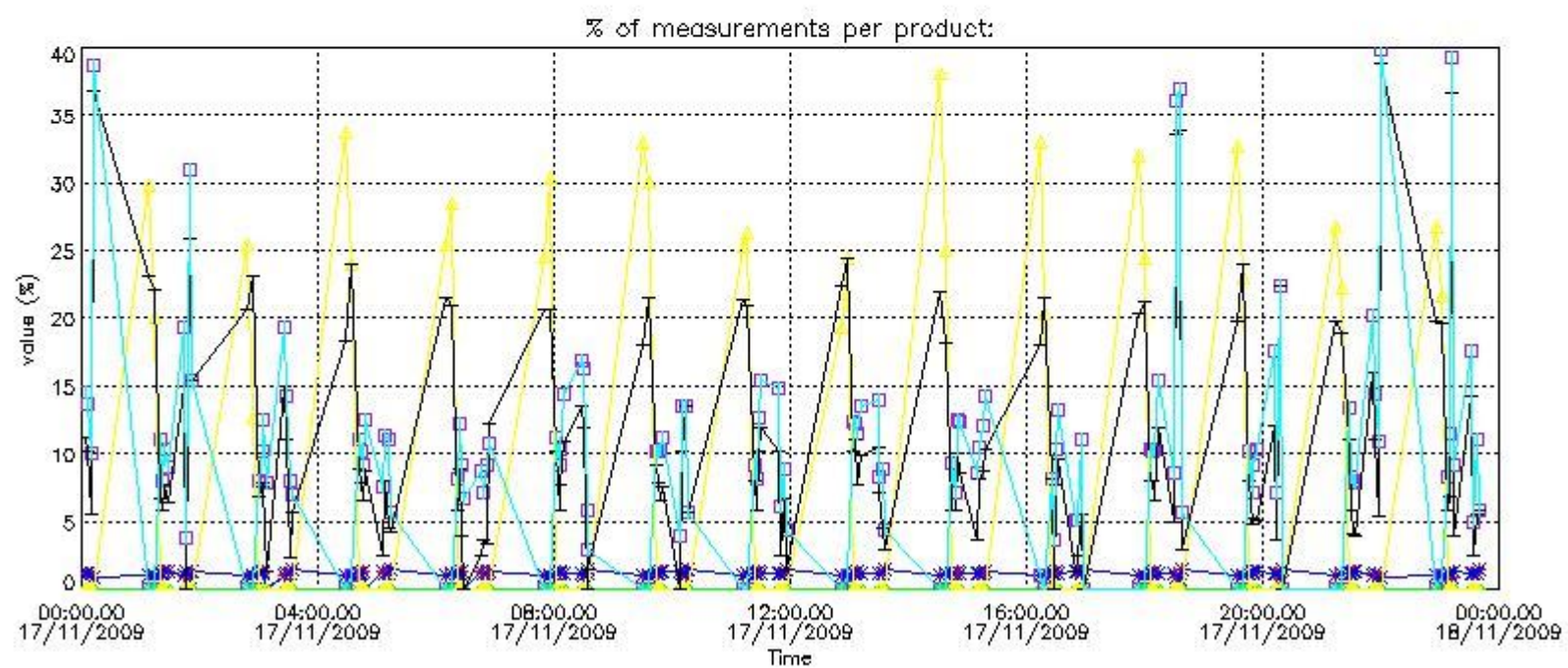
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



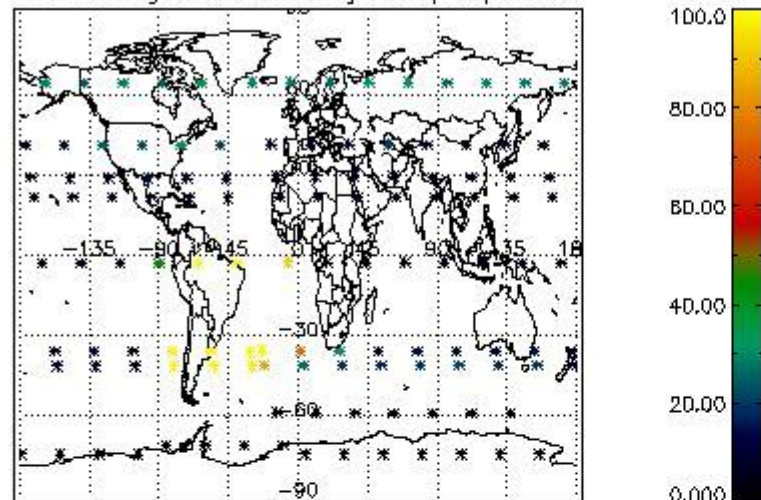
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



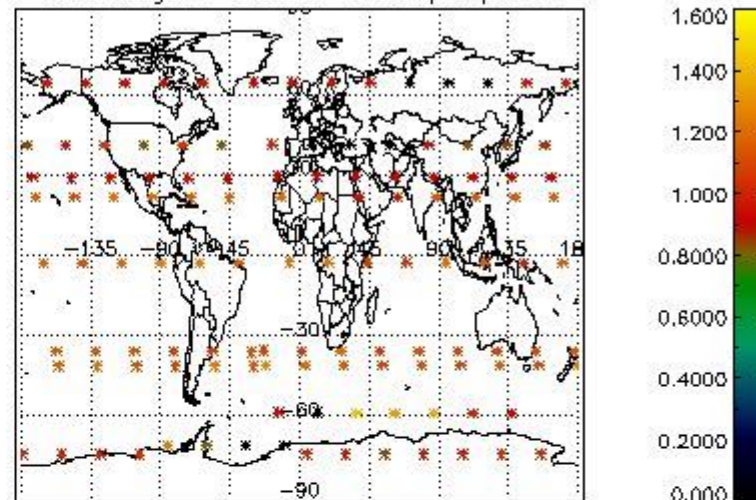
4.2 Plot quality information per product coming from level 1b processing (world map)

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

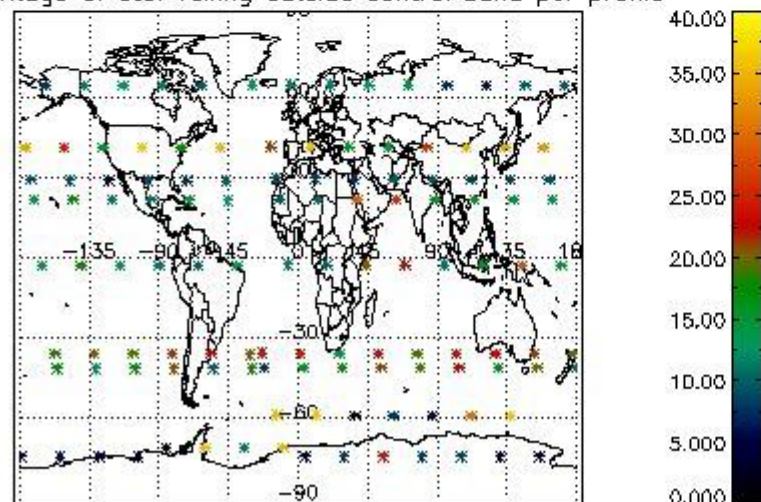
Percentage of cosmic ray hits per profile



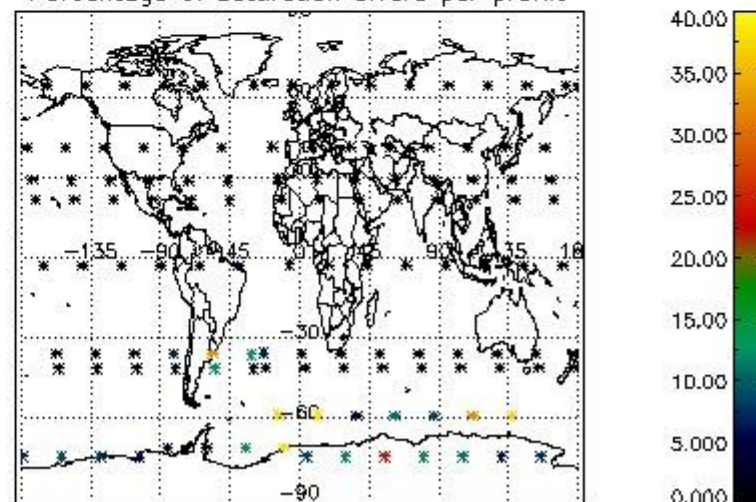
Percentage of datation errors per profile



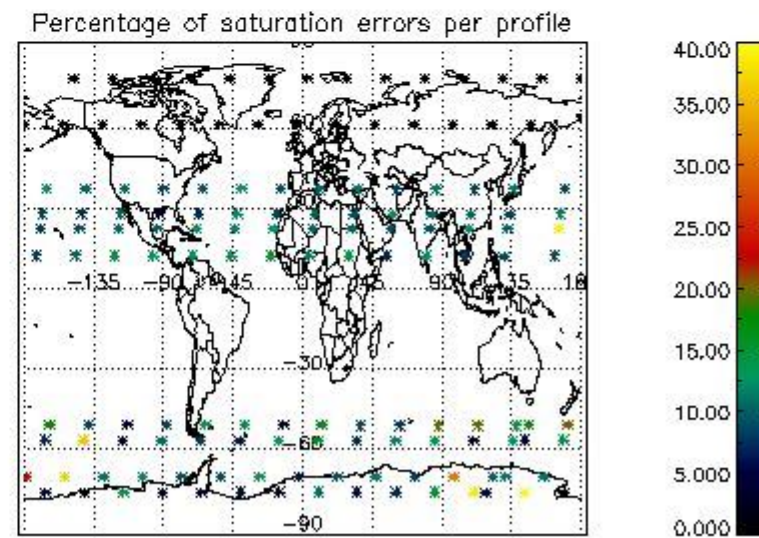
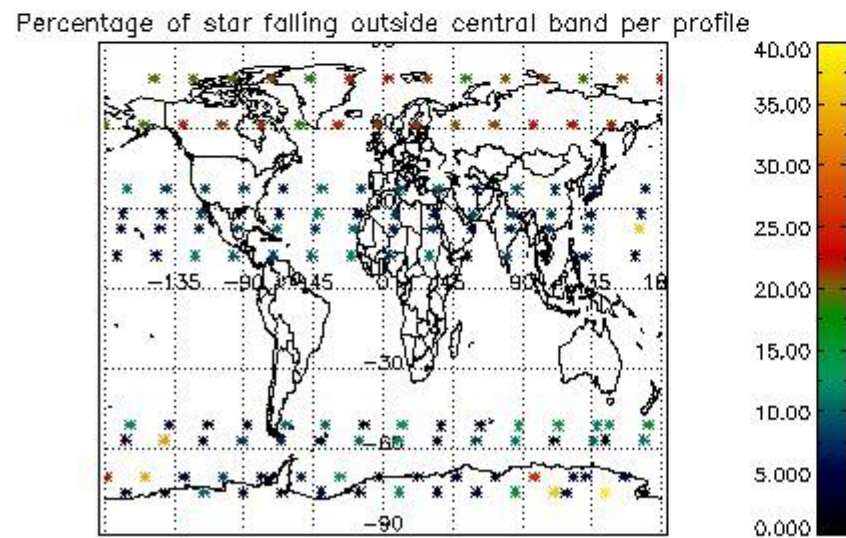
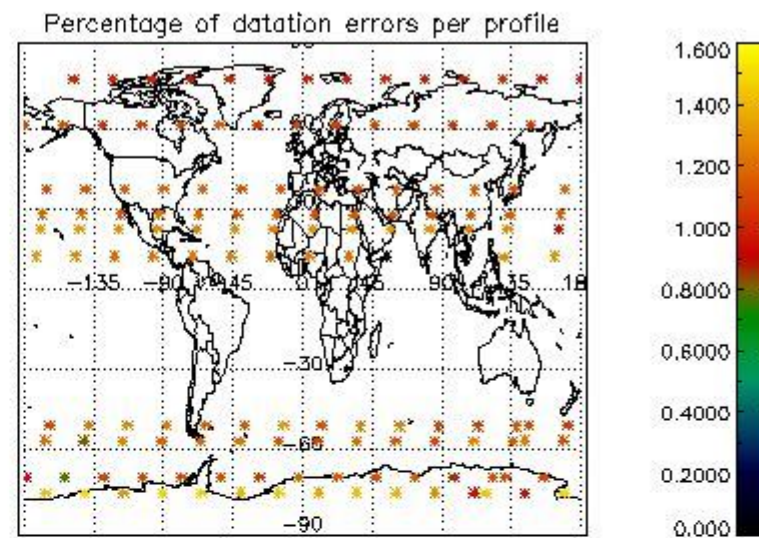
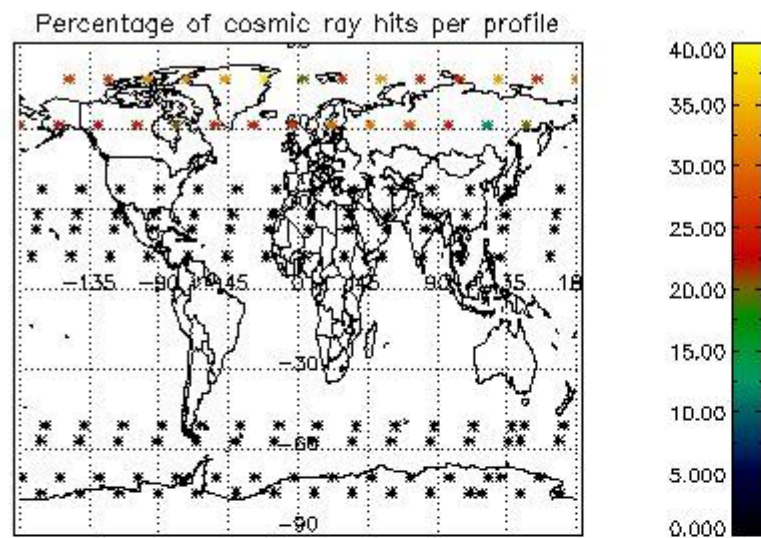
Percentage of star falling outside central band per profile



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

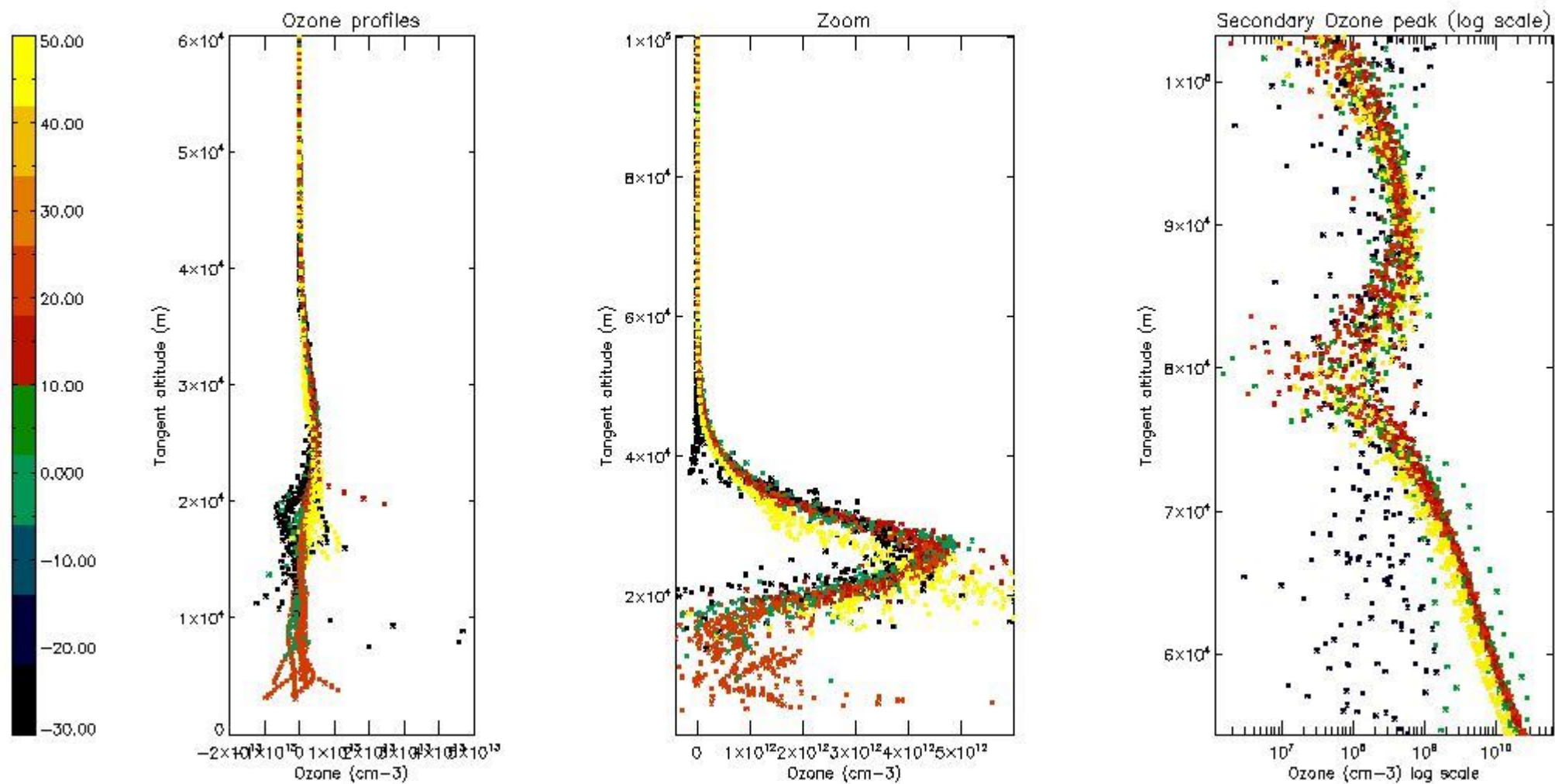
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	17

STD < 10	13
STD < 5	8

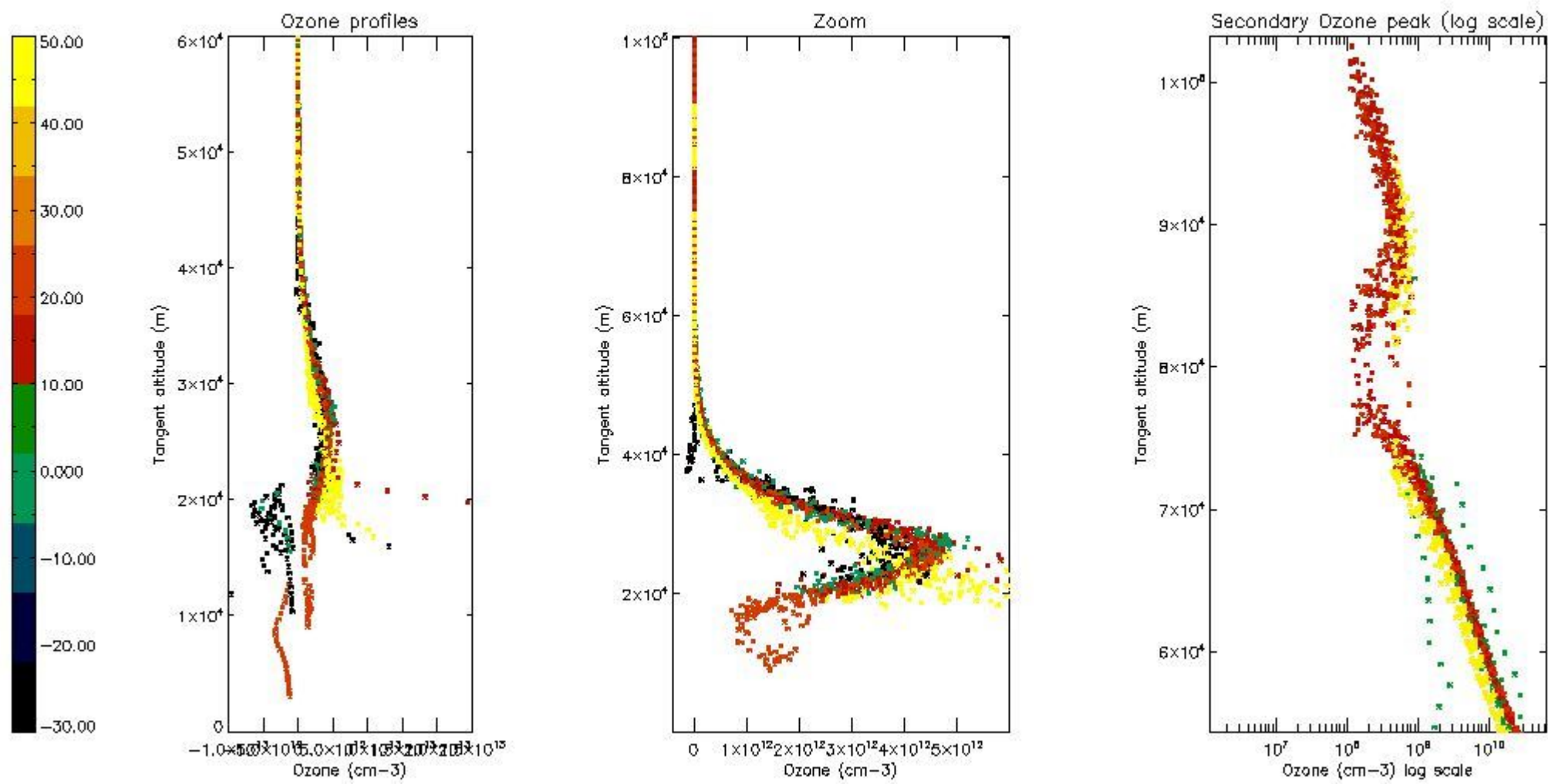
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



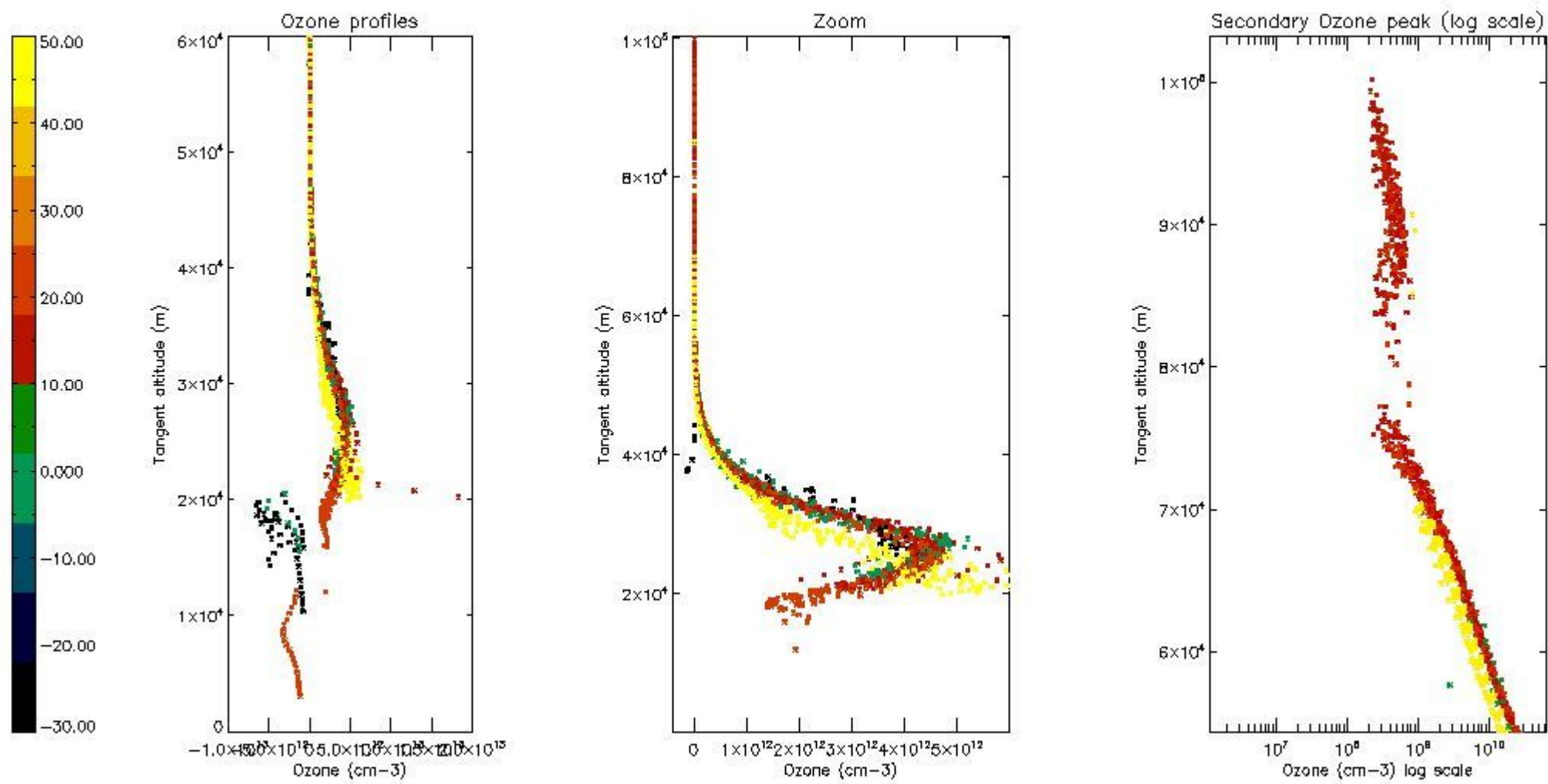
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



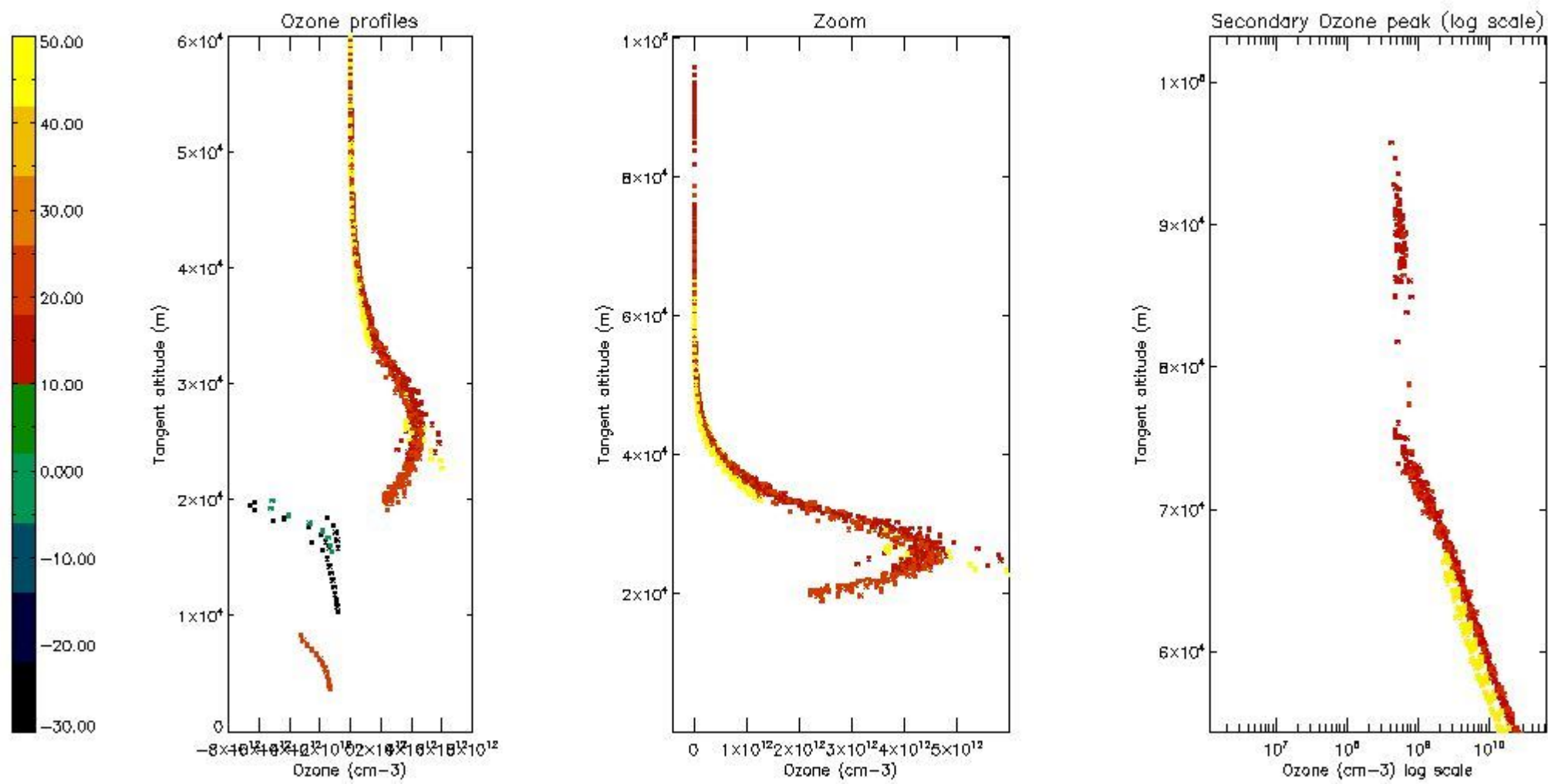
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



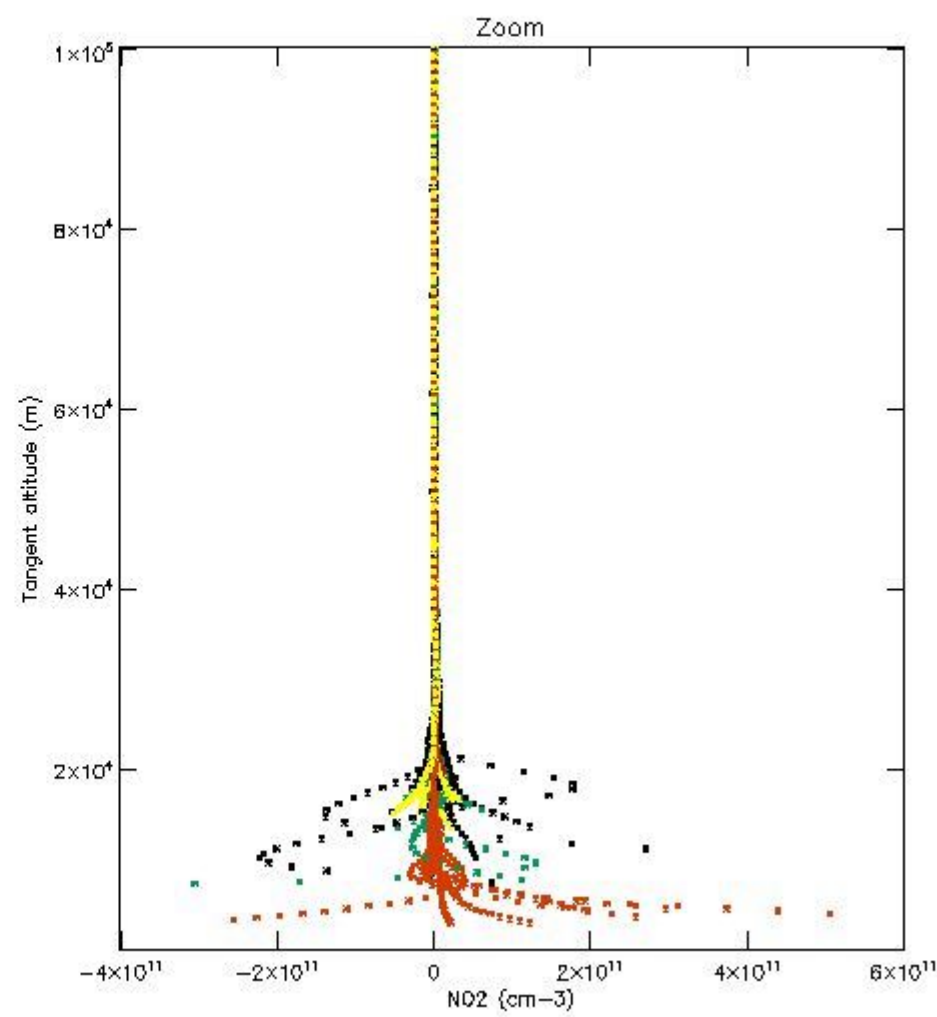
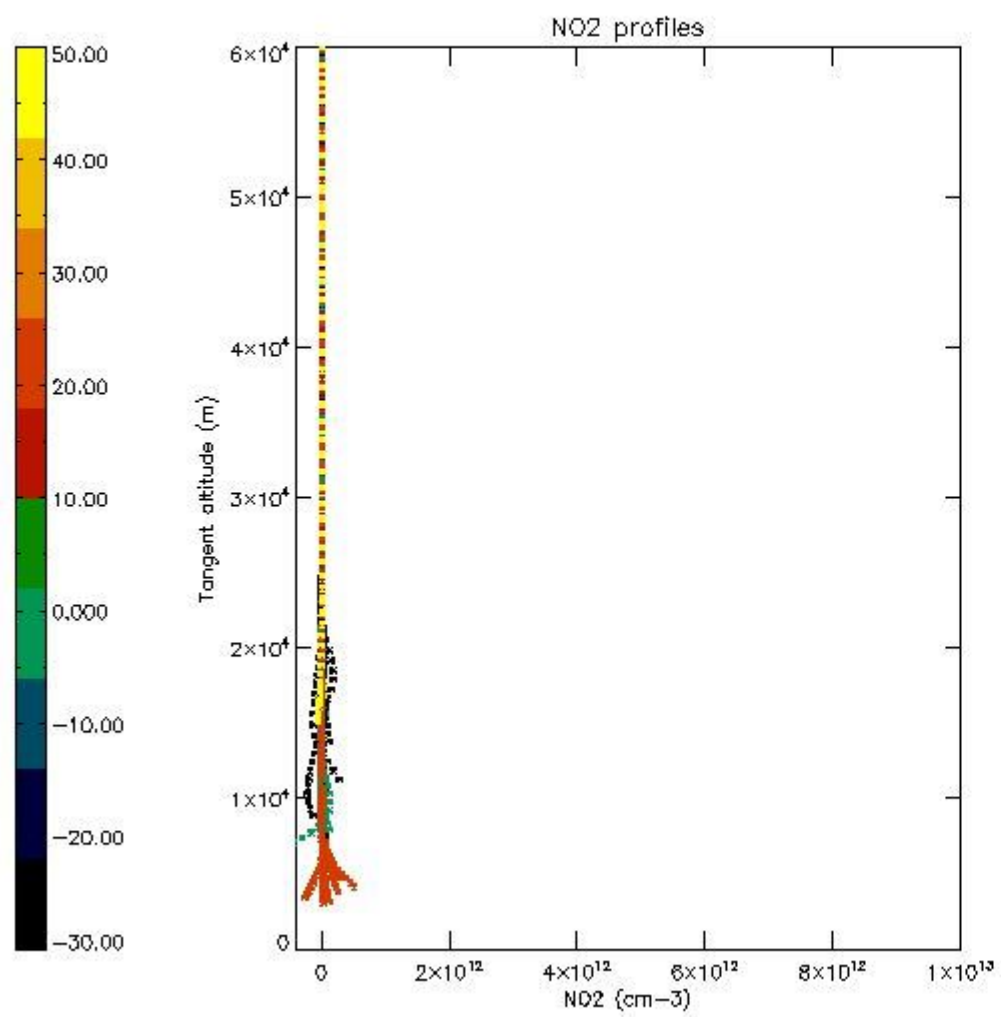
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



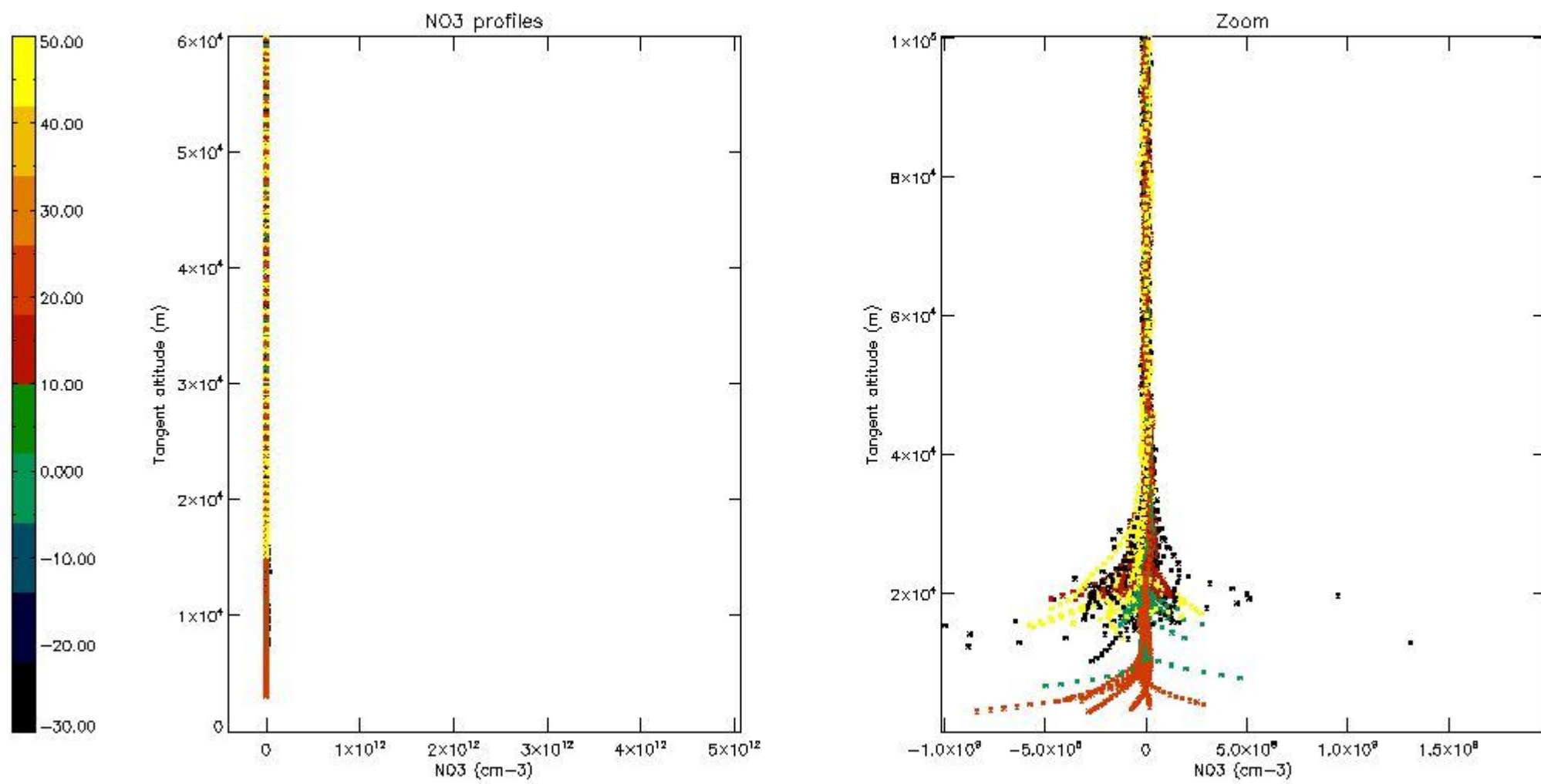
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



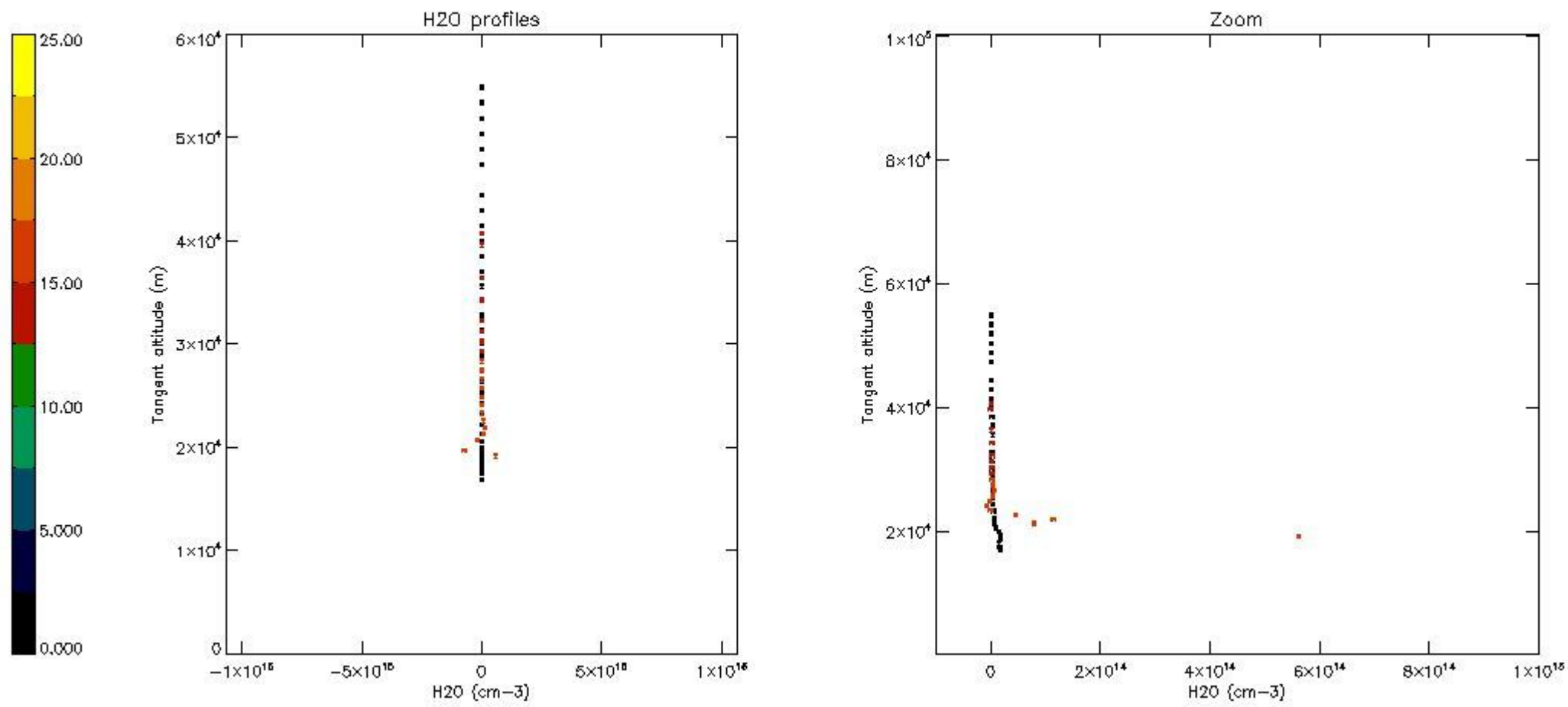
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	17-NOV-2009 00:04:23
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	17-NOV-2009 00:04:23
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	17-NOV-2009 00:04:23

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 \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

[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](#)

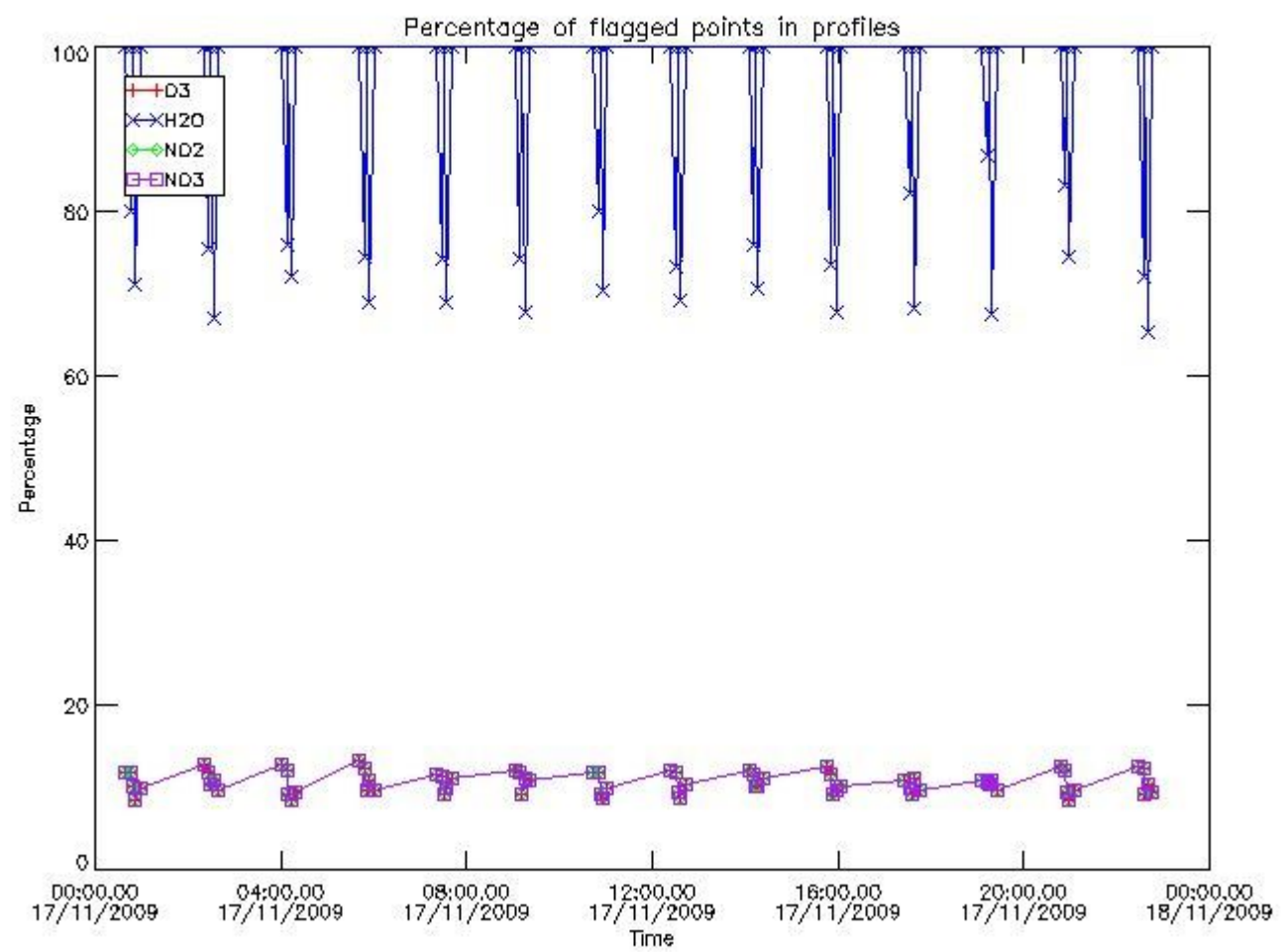
[6. Auxiliary Data Files used for the production reported in section 2](#)

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	26APR2013 13:59:36
Data source version	GOMOS/6.01
Start time of products	17-11-2009 (17NOV2009 00:00:00)
Stop time of products	18-11-2009 (18NOV2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	266
Nb of prods with errors	0

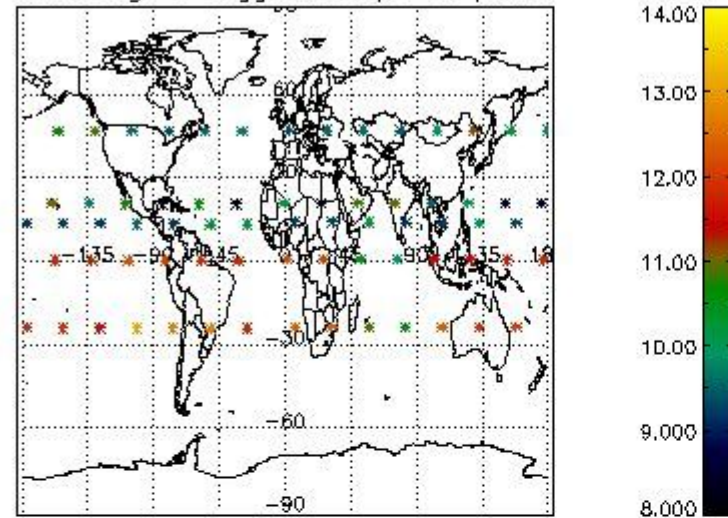
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20091117_000423_000000452084_00202_40336_0931.N1	17-NOV-2009 00:04:23	Bright	44.500	36	50Alp UMa	1.8000	6300.0	89	40336	No
2	GOM_NL__2PRFIN20091117_000602_000000442084_00202_40336_0932.N1	17-NOV-2009 00:06:02	Bright	44.000	82	48Bet UMa	2.3650	10600.	88	40336	No
3	GOM_NL__2PRFIN20091117_001007_000000452084_00202_40336_0933.N1	17-NOV-2009 00:10:07	Bright	45.000	174	52Psi UMa	3.0040	4400.0	90	40336	No
4	GOM_NL__2PRFIN20091117_001157_000000532084_00202_40336_0934.N1	17-NOV-2009 00:11:57	Bright	53.000	152	12Alp2CVn	2.8900	11000.	106	40336	No
5	GOM_NL__2PRFIN20091117_002003_000000622084_00202_40336_0935.N1	17-NOV-2009 00:20:03	Bright	61.500	62	94Bet Leo	2.1360	9700.0	123	40336	No
6	GOM_NL__2PRFIN20091117_002840_000000442084_00202_40336_0936.N1	17-NOV-2009 00:28:40	Twilight	44.000	100	4Gam Crv	2.5800	13100.	88	40336	No
7	GOM_NL__2PRFIN20091117_003011_000000452084_00202_40336_0937.N1	17-NOV-2009 00:30:11	Twilight	44.500	171	2Eps Crv	3.0010	4250.0	89	40336	No
8	GOM_NL__2PRFIN20091117_003928_000000432084_00202_40336_0938.N1	17-NOV-2009 00:39:28	Dark	43.000	113	Mu Vel	2.6920	5000.0	86	40336	No
9	GOM_NL__2PRFIN20091117_004620_000000432084_00203_40337_0930.N1	17-NOV-2009 00:46:20	Dark	43.000	41	Eps Car	1.8600	4100.0	86	40337	No
10	GOM_NL__2PRFIN20091117_004823_000000552084_00203_40337_0931.N1	17-NOV-2009 00:48:23	Dark	55.000	70	Zet Pup	2.2460	39000.	110	40337	No
11	GOM_NL__2PRFIN20091117_005151_000000612084_00203_40337_0932.N1	17-NOV-2009 00:51:51	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	40337	No
12	GOM_NL__2PRFIN20091117_005833_000000522084_00203_40337_0933.N1	17-NOV-2009 00:58:33	Dark	52.000	108	Alp Col	2.6520	15200.	104	40337	No
13	GOM_NL__2PRFIN20091117_010743_000000522084_00203_40337_0934.N1	17-NOV-2009 01:07:43	Straylight	52.000	165	34Gam Eri	2.9500	3200.0	104	40337	No
14	GOM_NL__2PRFIN20091117_011316_000000482084_00203_40337_0935.N1	17-NOV-2009 01:13:16	Twilight	47.500	94	92Alp Cet	2.5260	3100.0	95	40337	No
15	GOM_NL__2PRFIN20091117_012009_000000452084_00203_40337_0936.N1	17-NOV-2009 01:20:09	Bright	45.000	146	25Eta Tau	2.8730	15200.	90	40337	No
16	GOM_NL__2PRFIN20091117_012247_000000442084_00203_40337_0937.N1	17-NOV-2009 01:22:47	Bright	43.500	150	44Zet Per	2.8900	28000.	87	40337	No
17	GOM_NL__2PRFIN20091117_012420_000000392084_00203_40337_0938.N1	17-NOV-2009 01:24:20	Bright	39.000	79	26Bet Per	2.3100	13100.	78	40337	No
18	GOM_NL__2PRFIN20091117_012710_000000392084_00203_40337_0939.N1	17-NOV-2009 01:27:10	Bright	39.000	35	33Alp Per	1.7950	6250.0	78	40337	No
19	GOM_NL__2PRFIN20091117_014459_000000472084_00203_40337_0940.N1	17-NOV-2009 01:44:59	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	40337	No
20	GOM_NL__2PRFIN20091117_014637_000000402084_00203_40337_0941.N1	17-NOV-2009 01:46:37	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	40337	No
21	GOM_NL__2PRFIN20091117_015043_000000582084_00203_40337_0942.N1	17-NOV-2009 01:50:43	Bright	58.000	174	52Psi UMa	3.0040	4400.0	116	40337	No
22	GOM_NL__2PRFIN20091117_015233_000000392084_00203_40337_0943.N1	17-NOV-2009 01:52:33	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	40337	No
23	GOM_NL__2PRFIN20091117_020039_000000452084_00203_40337_0944.N1	17-NOV-2009 02:00:39	Bright	44.500	62	94Bet Leo	2.1360	9700.0	89	40337	No
24	GOM_NL__2PRFIN20091117_020916_000000402084_00203_40337_0945.N1	17-NOV-2009 02:09:16	Twilight	40.000	100	4Gam Crv	2.5800	13100.	80	40337	No
25	GOM_NL__2PRFIN20091117_021048_000000472084_00203_40337_0946.N1	17-NOV-2009 02:10:48	Twilight	46.500	171	2Eps Crv	3.0010	4250.0	93	40337	No
26	GOM_NL__2PRFIN20091117_022005_000000402084_00203_40337_0947.N1	17-NOV-2009 02:20:05	Dark	40.000	113	Mu Vel	2.6920	5000.0	80	40337	No
27	GOM_NL__2PRFIN20091117_022657_000000432084_00204_40338_0939.N1	17-NOV-2009 02:26:57	Dark	43.000	41	Eps Car	1.8600	4100.0	86	40338	No
28	GOM_NL__2PRFIN20091117_022900_000000542084_00204_40338_0940.N1	17-NOV-2009 02:29:00	Dark	54.000	70	Zet Pup	2.2460	39000.	108	40338	No
29	GOM_NL__2PRFIN20091117_023227_000000482084_00204_40338_0941.N1	17-NOV-2009 02:32:27	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	40338	No
30	GOM_NL__2PRFIN20091117_023909_000000532084_00204_40338_0942.N1	17-NOV-2009 02:39:09	Dark	52.500	108	Alp Col	2.6520	15200.	105	40338	No
31	GOM_NL__2PRFIN20091117_024819_000000512084_00204_40338_0943.N1	17-NOV-2009 02:48:19	Straylight	51.000	165	34Gam Eri	2.9500	3200.0	102	40338	No
32	GOM_NL__2PRFIN20091117_025351_000000482084_00204_40338_0944.N1	17-NOV-2009 02:53:51	Twilight	47.500	94	92Alp Cet	2.5260	3100.0	95	40338	No
33	GOM_NL__2PRFIN20091117_030045_000000442084_00204_40338_0945.N1	17-NOV-2009 03:00:45	Bright	43.500	146	25Eta Tau	2.8730	15200.	87	40338	No
34	GOM_NL__2PRFIN20091117_030322_000000452084_00204_40338_0946.N1	17-NOV-2009 03:03:22	Bright	44.500	150	44Zet Per	2.8900	28000.	89	40338	No
35	GOM_NL__2PRFIN20091117_030455_000000402084_00204_40338_0947.N1	17-NOV-2009 03:04:55	Bright	40.000	79	26Bet Per	2.3100	13100.	80	40338	No
36	GOM_NL__2PRFIN20091117_030746_000000382084_00204_40338_0948.N1	17-NOV-2009 03:07:46	Bright	38.000	35	33Alp Per	1.7950	6250.0	76	40338	No
37	GOM_NL__2PRFIN20091117_032535_000000472084_00204_40338_0949.N1	17-NOV-2009 03:25:35	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	40338	No
38	GOM_NL__2PRFIN20091117_032713_000000462084_00204_40338_0950.N1	17-NOV-2009 03:27:13	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	40338	No
39	GOM_NL__2PRFIN20091117_033118_000000442084_00204_40338_0951.N1	17-NOV-2009 03:31:18	Bright	43.500	174	52Psi UMa	3.0040	4400.0	87	40338	No
40	GOM_NL__2PRFIN20091117_033309_000000362084_00204_40338_0952.N1	17-NOV-2009 03:33:09	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	40338	No
41	GOM_NL__2PRFIN20091117_034116_000000622084_00204_40338_0953.N1	17-NOV-2009 03:41:16	Bright	62.000	62	94Bet Leo	2.1360	9700.0	124	40338	No
42	GOM_NL__2PRFIN20091117_034953_000000462084_00204_40338_0954.N1	17-NOV-2009 03:49:53	Twilight	46.000	100	4Gam Crv	2.5800	13100.	92	40338	No

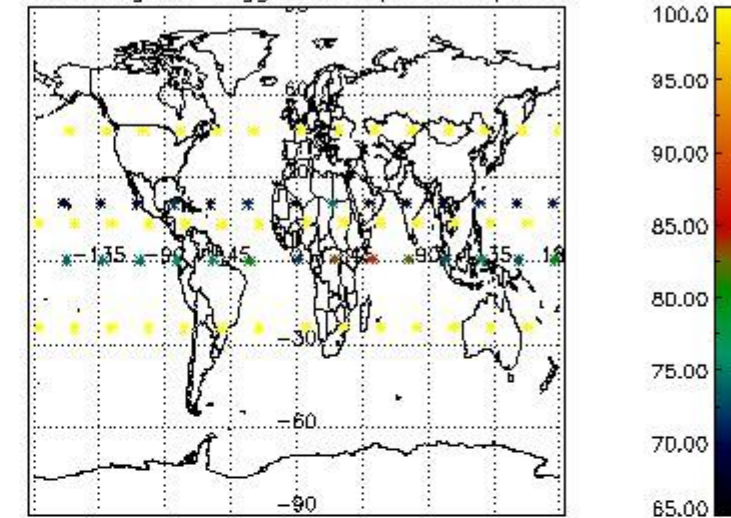


3.2 Plot quality information per product (world map)

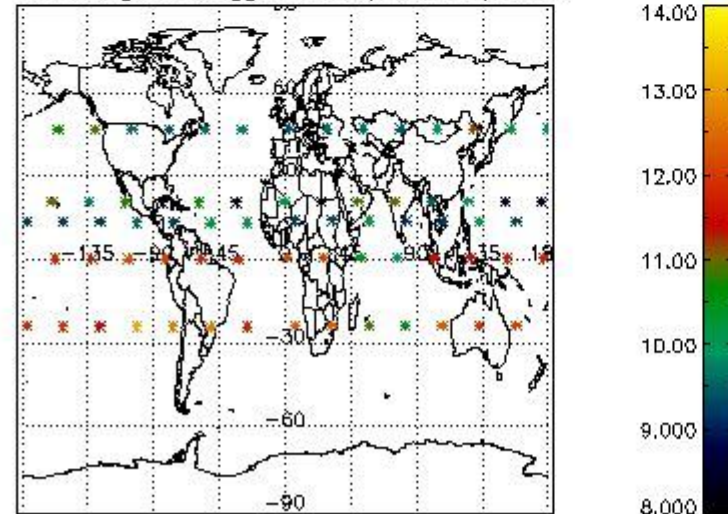
Percentage of flagged data per O3 profile



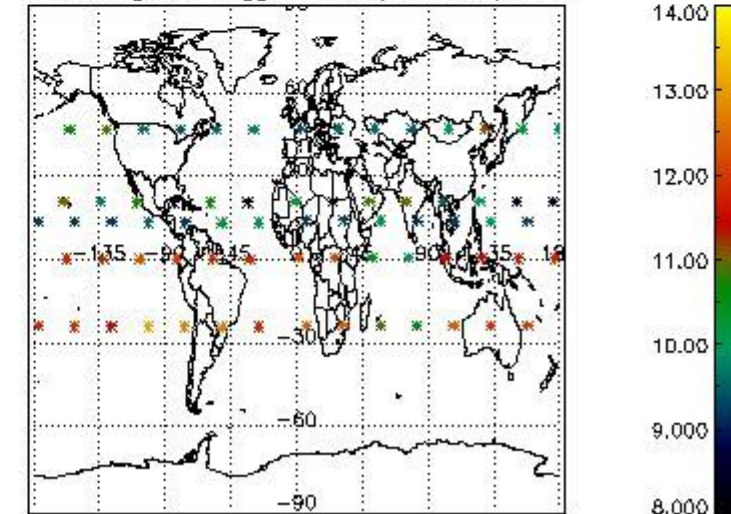
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

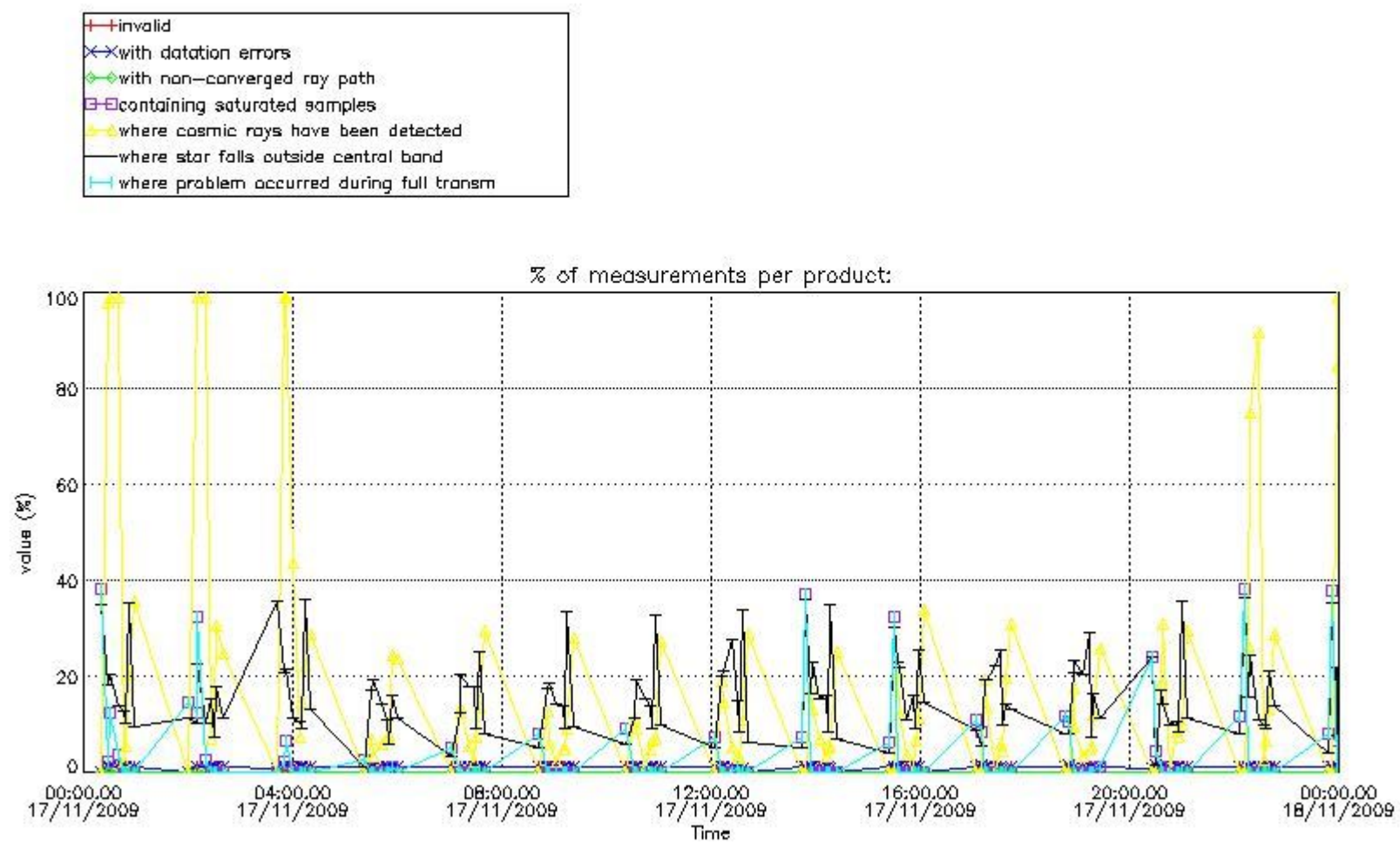


4. Level 1 quality information per product

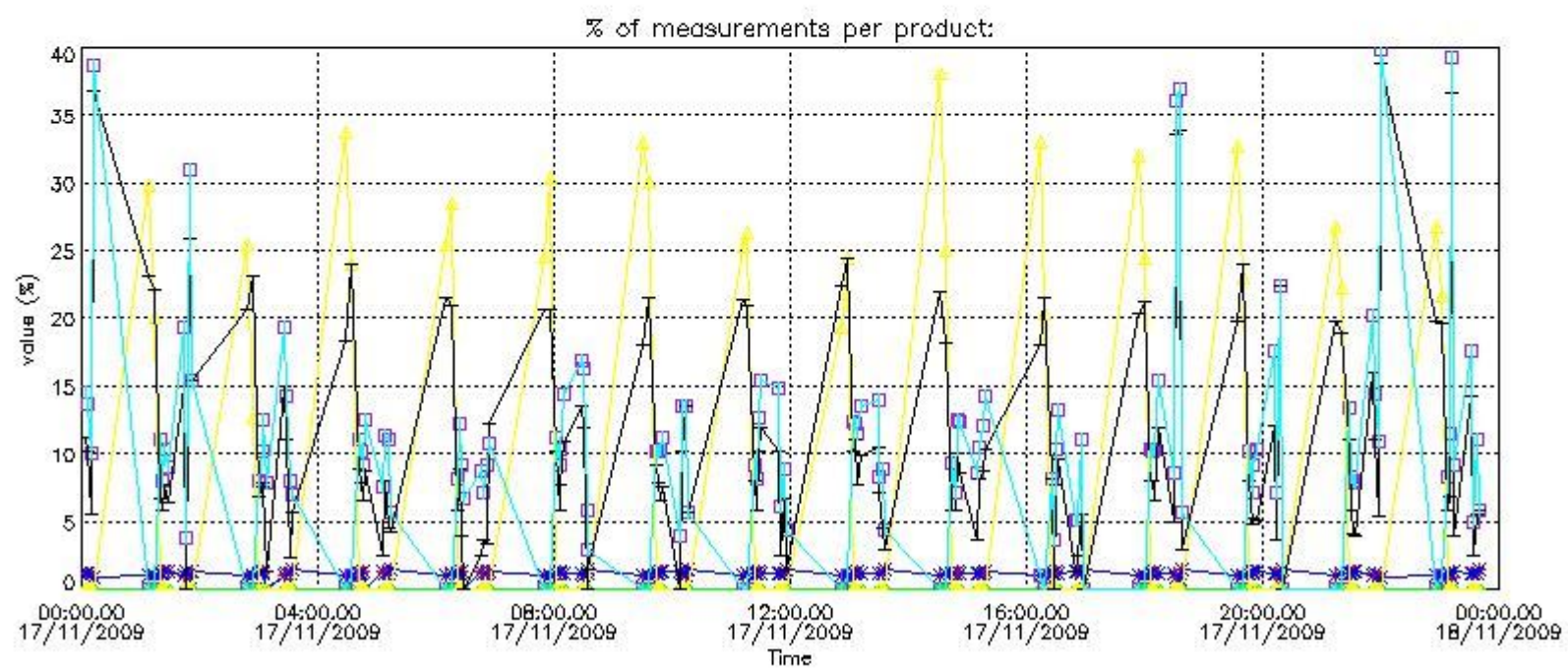
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



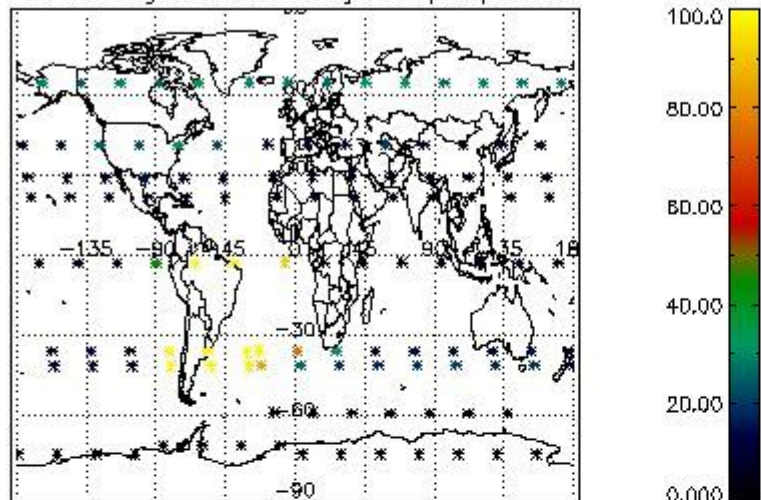
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



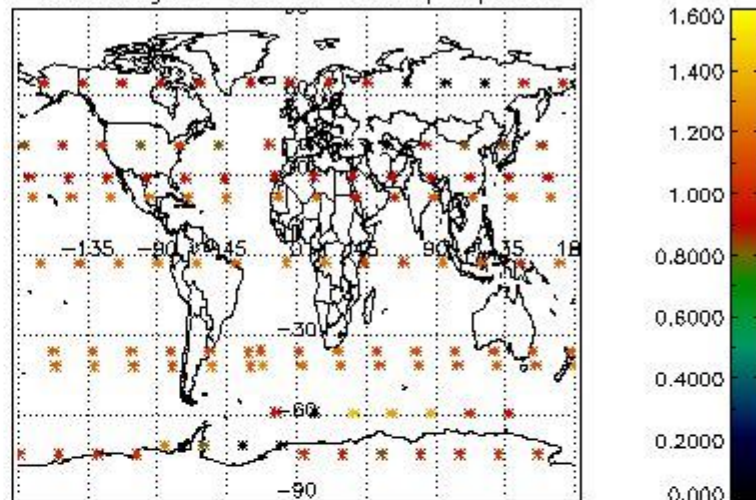
4.2 Plot quality information per product coming from level 1b processing (world map)

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

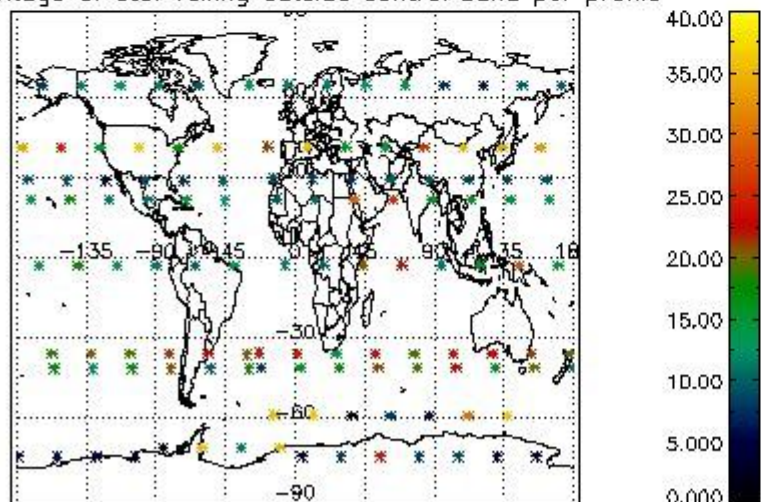
Percentage of cosmic ray hits per profile



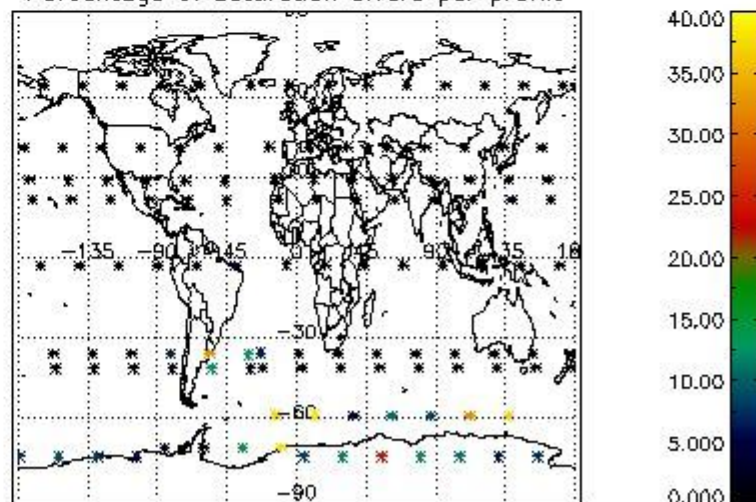
Percentage of datation errors per profile



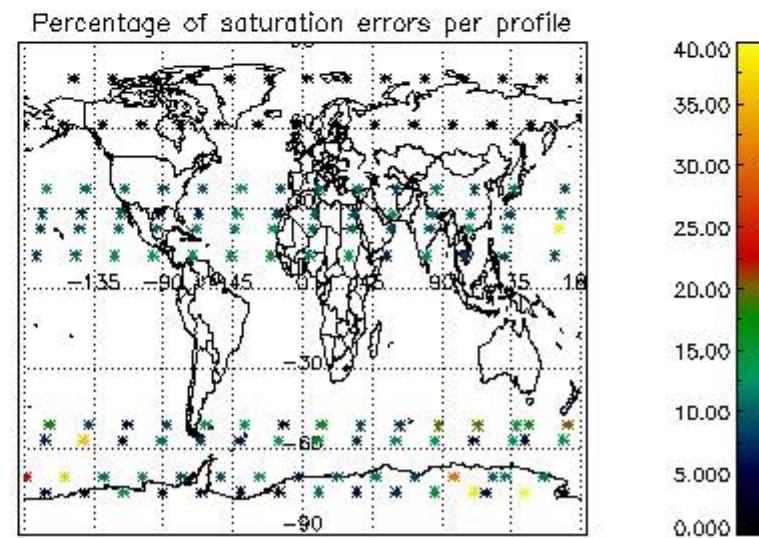
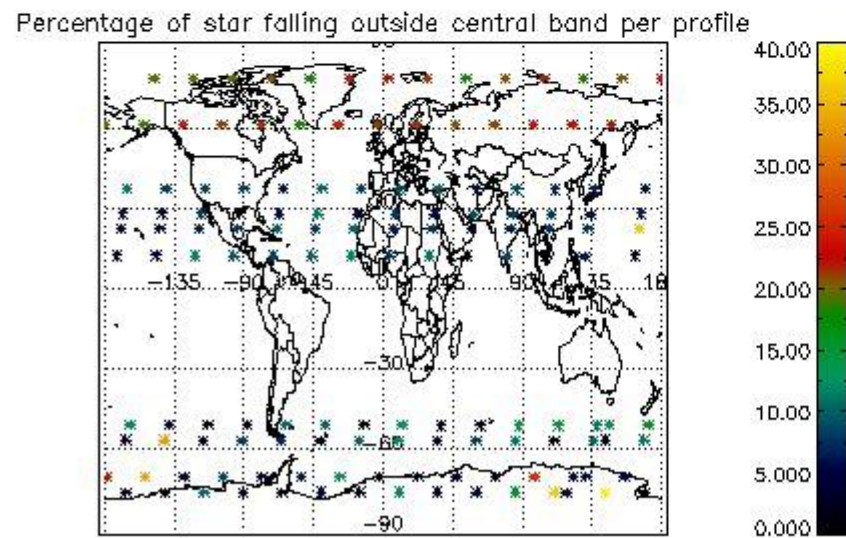
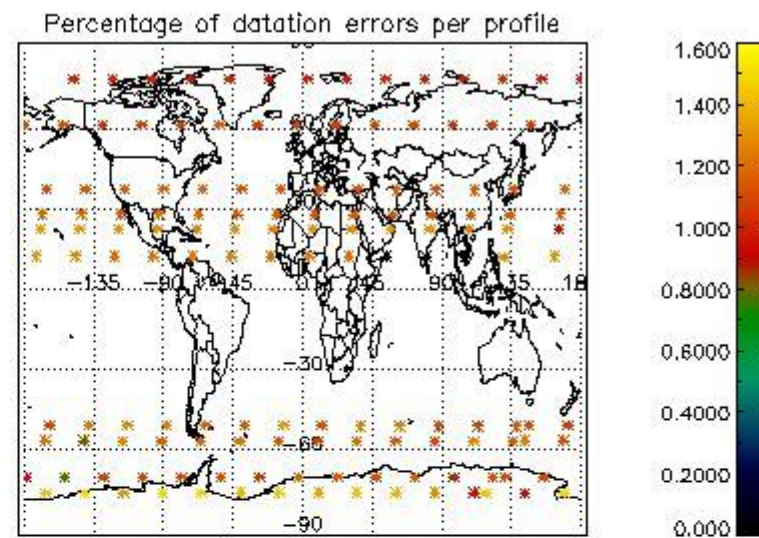
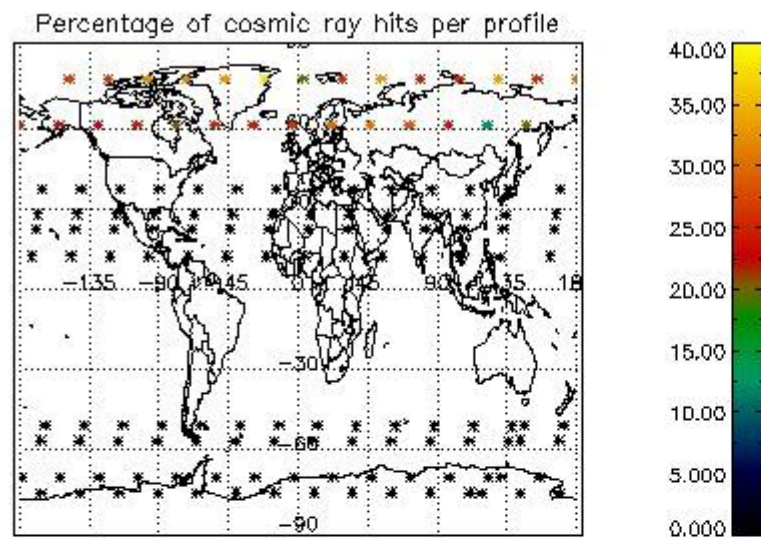
Percentage of star falling outside central band per profile



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

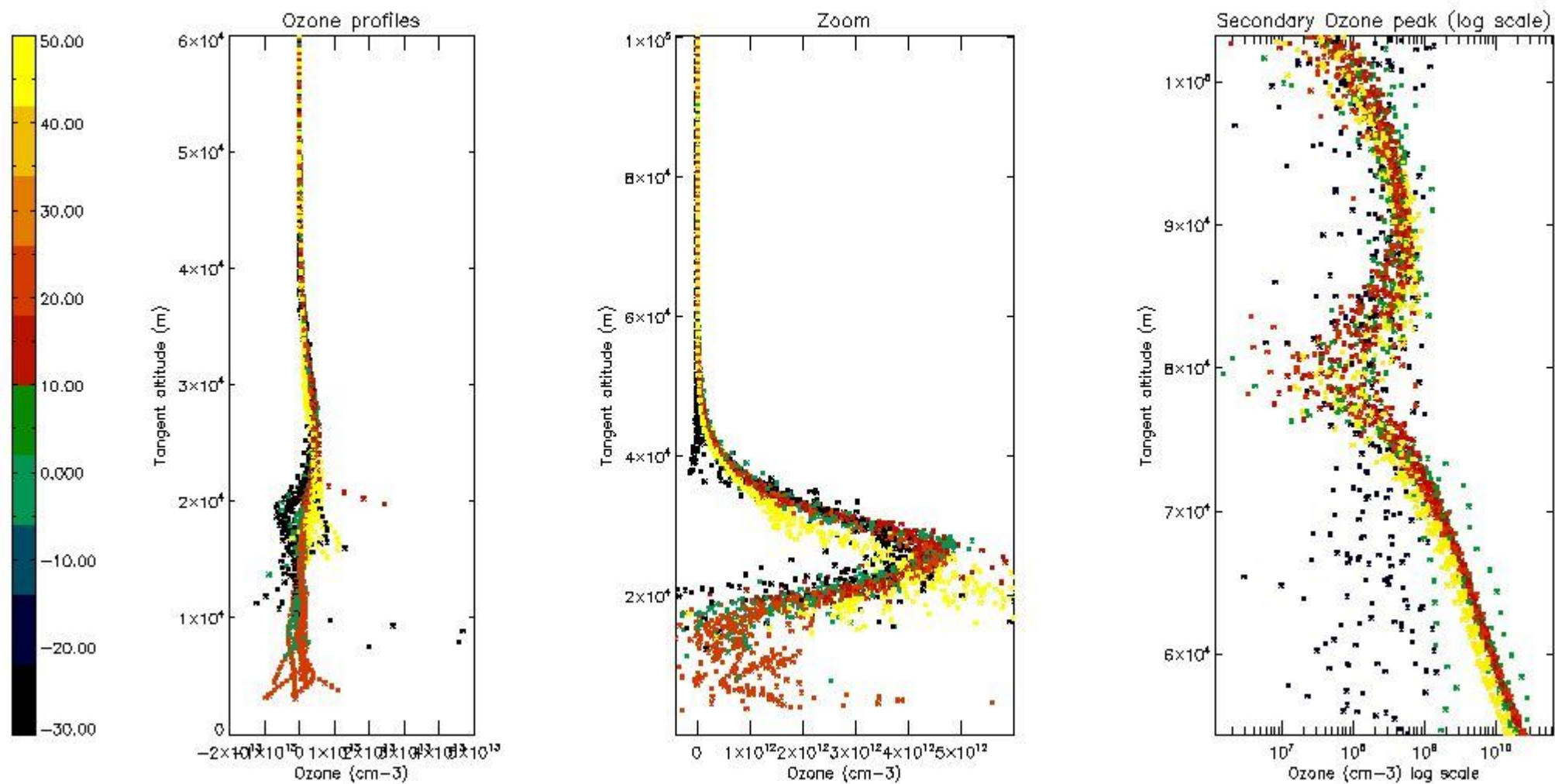
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	17

STD < 10	13
STD < 5	8

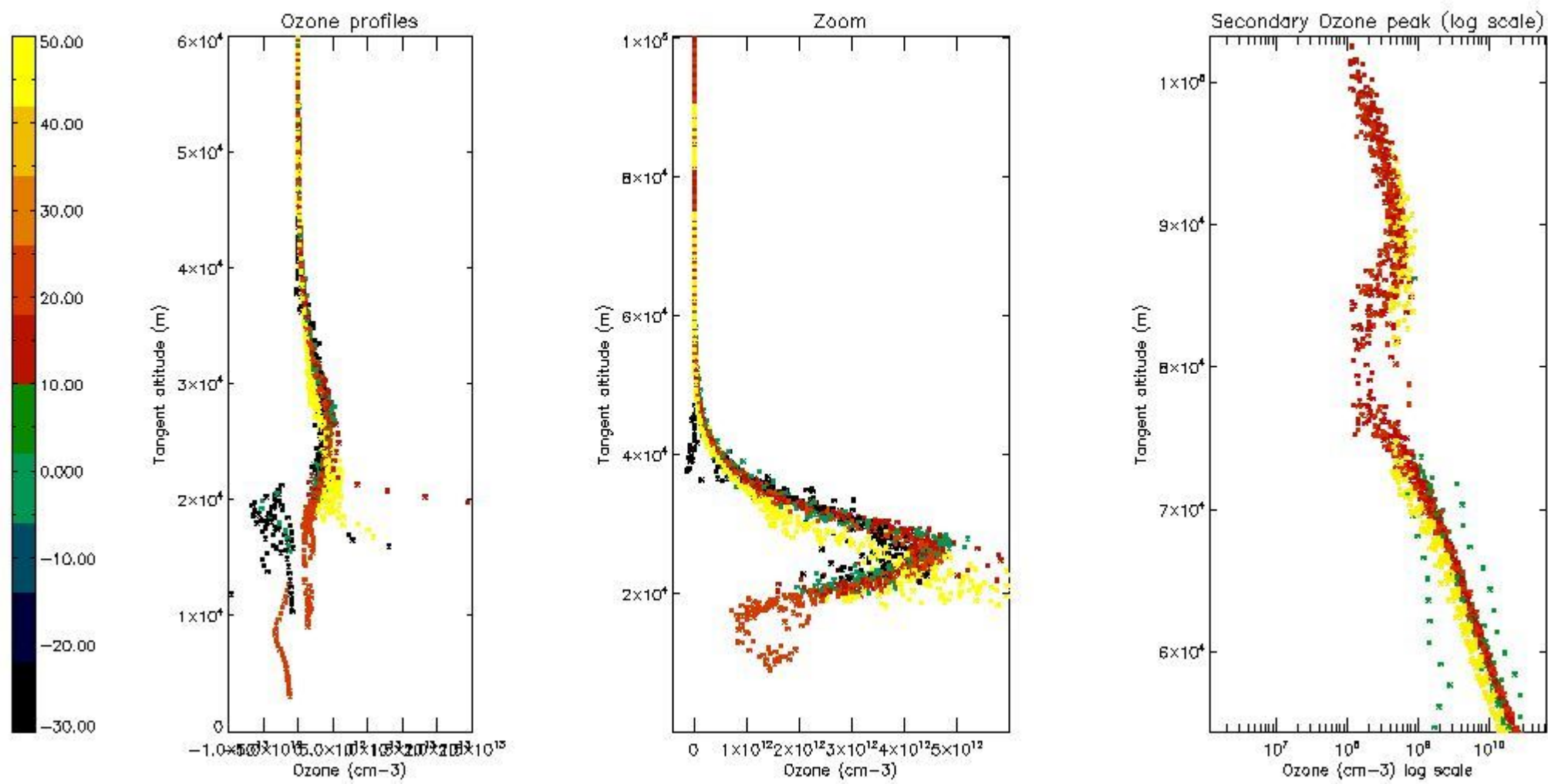
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



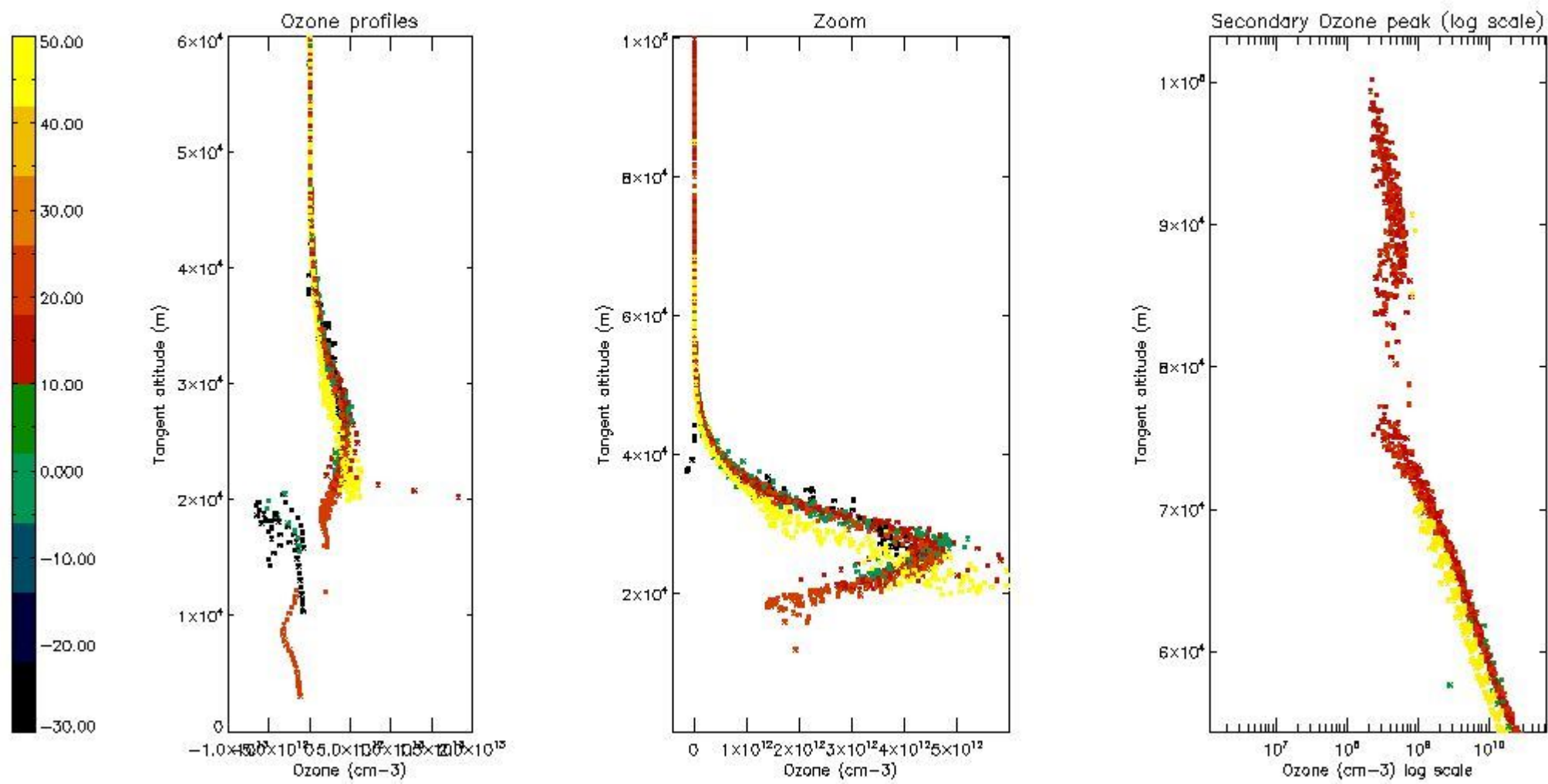
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



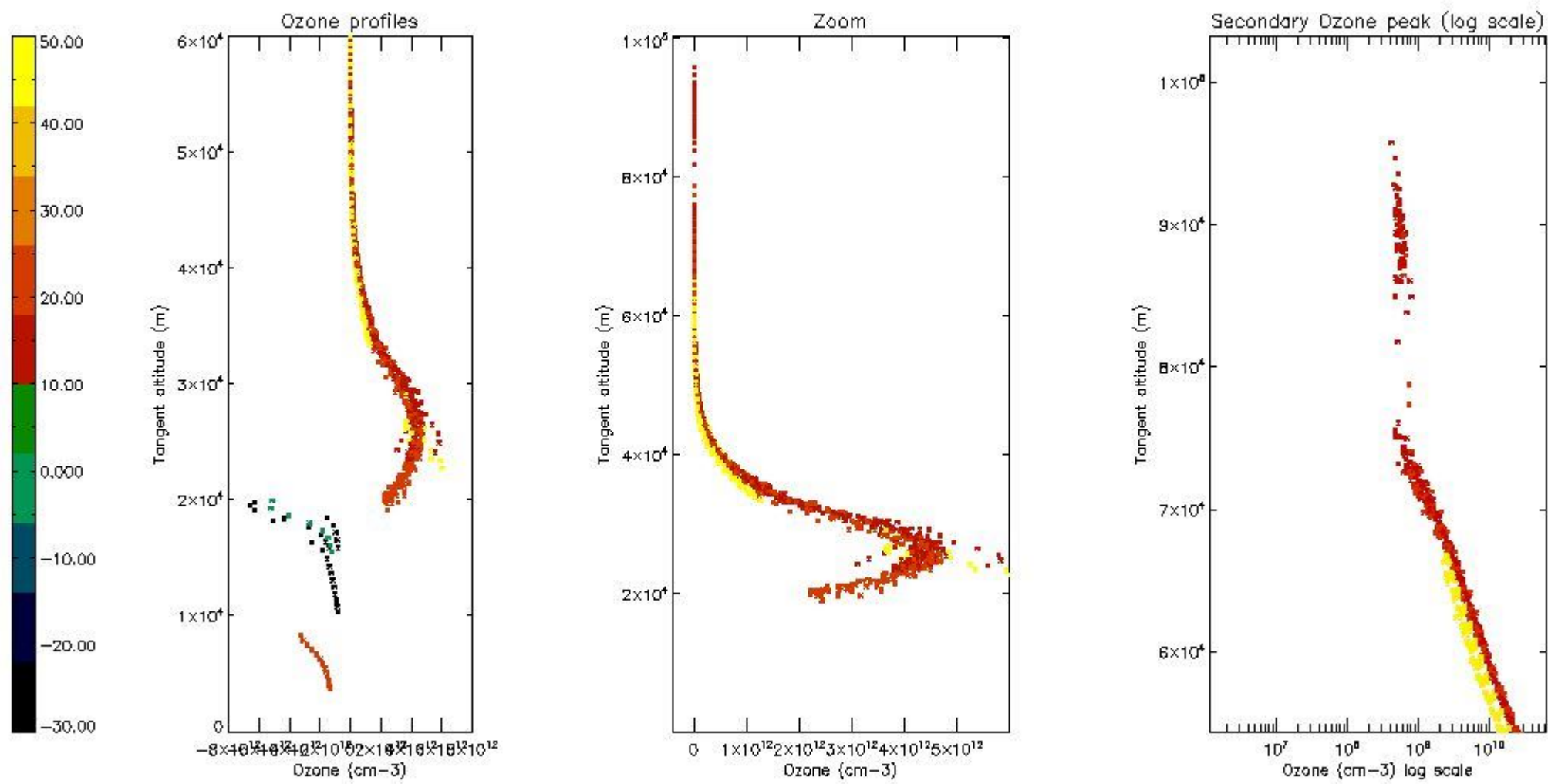
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



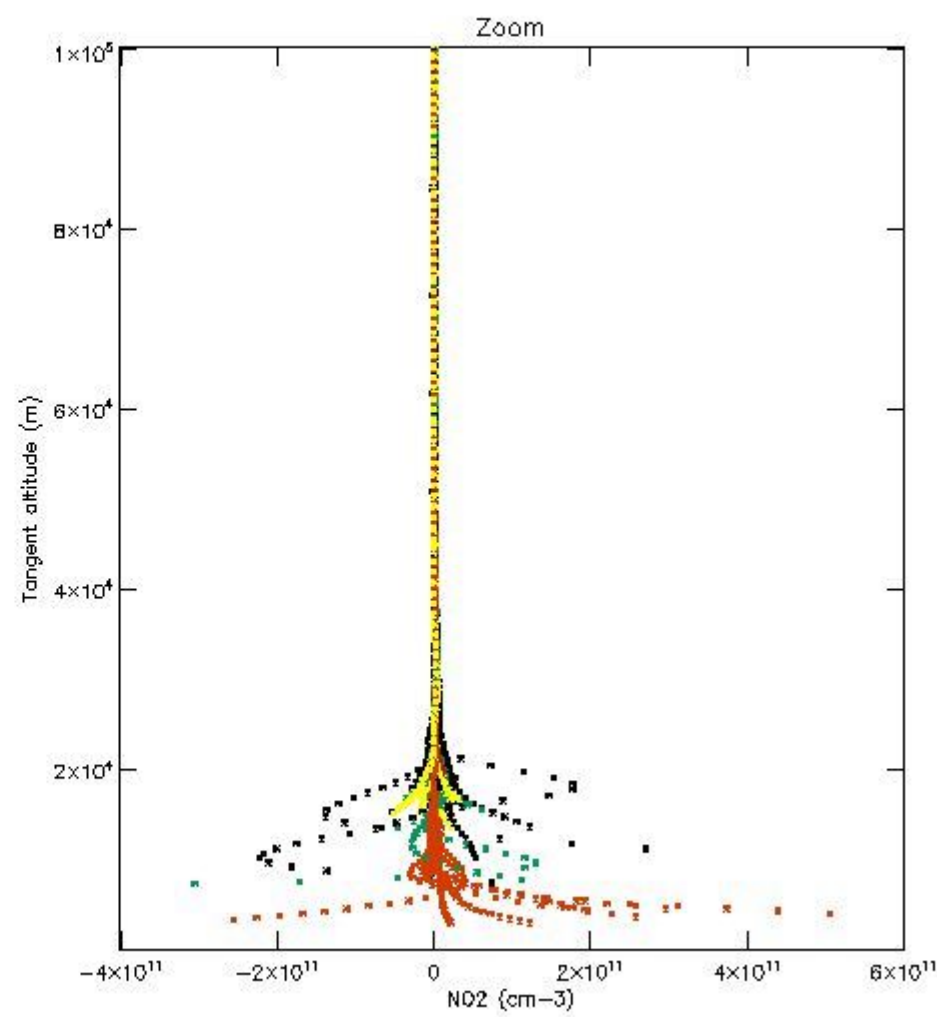
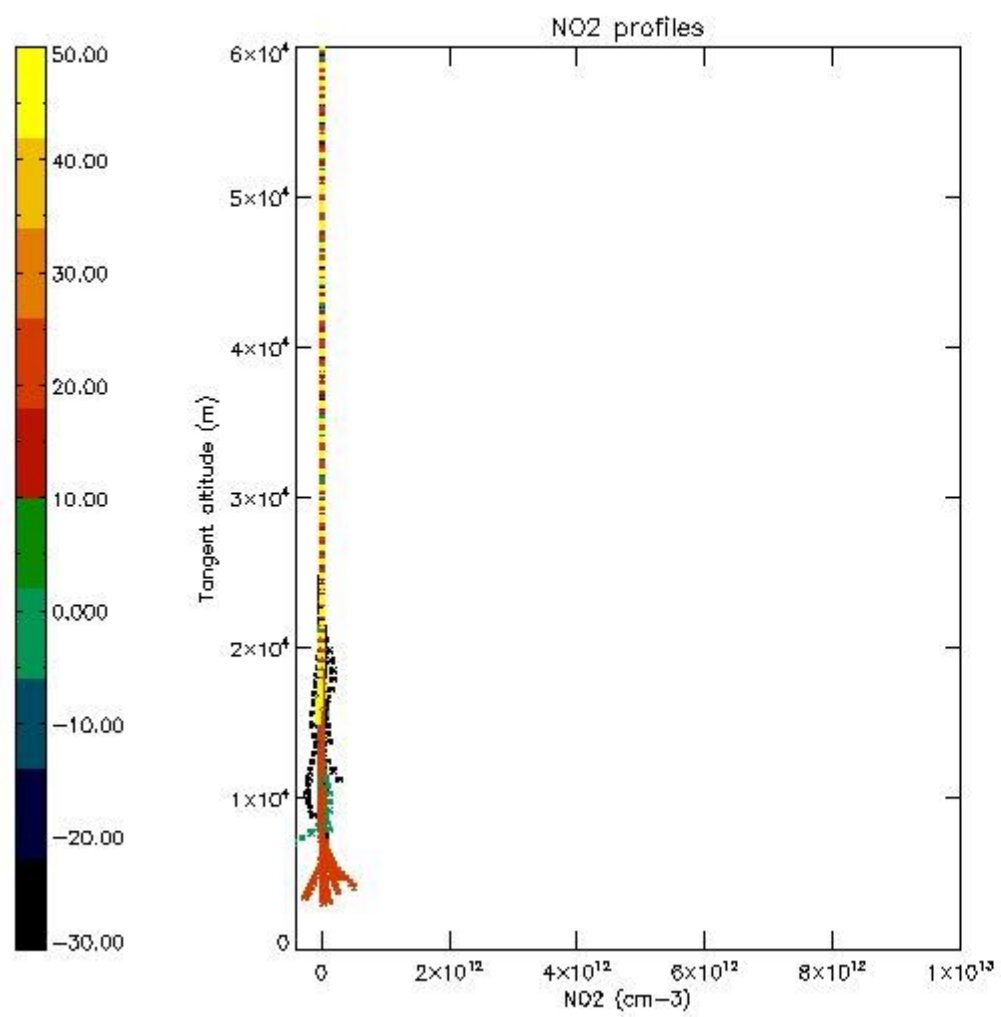
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



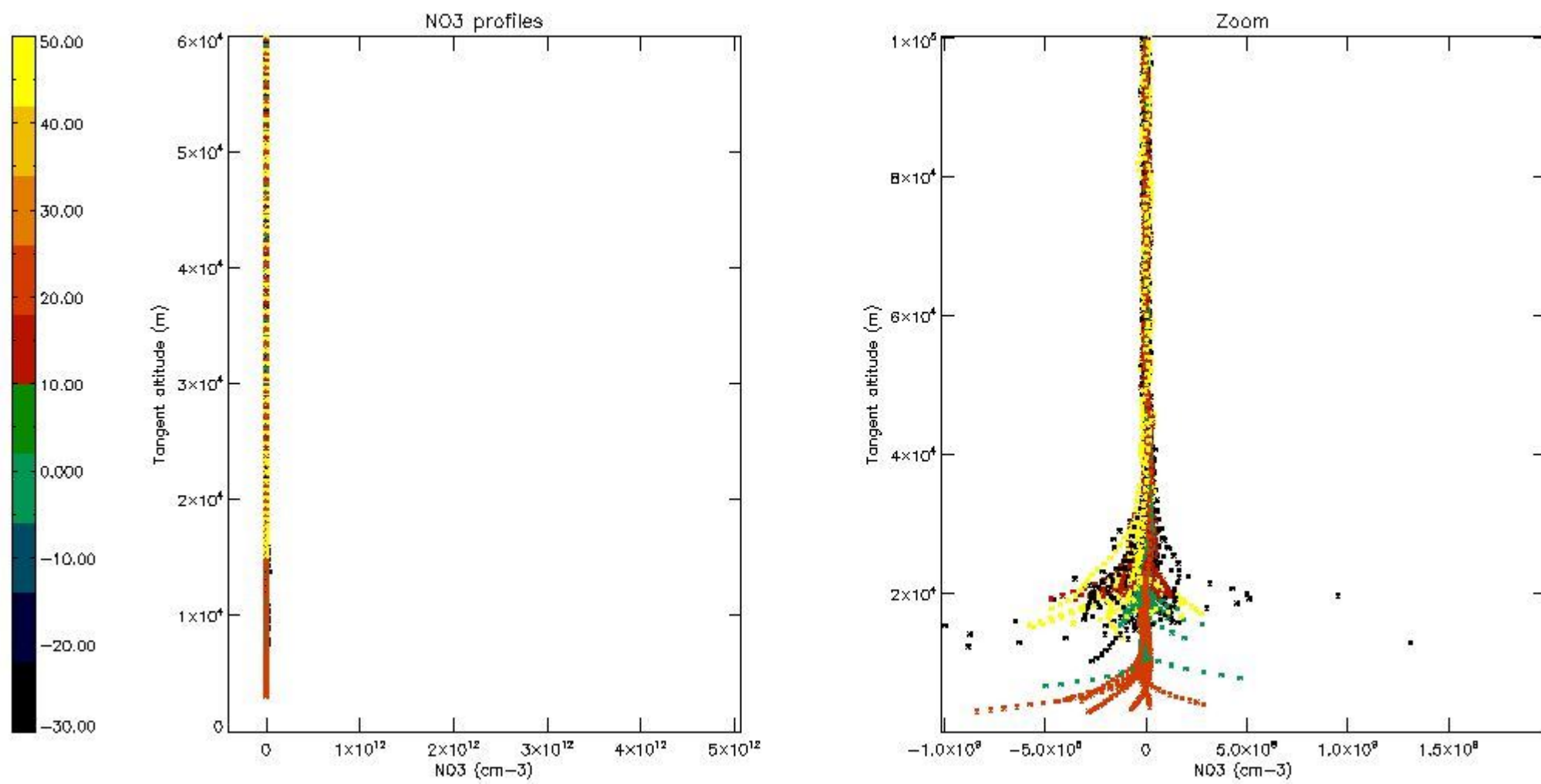
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



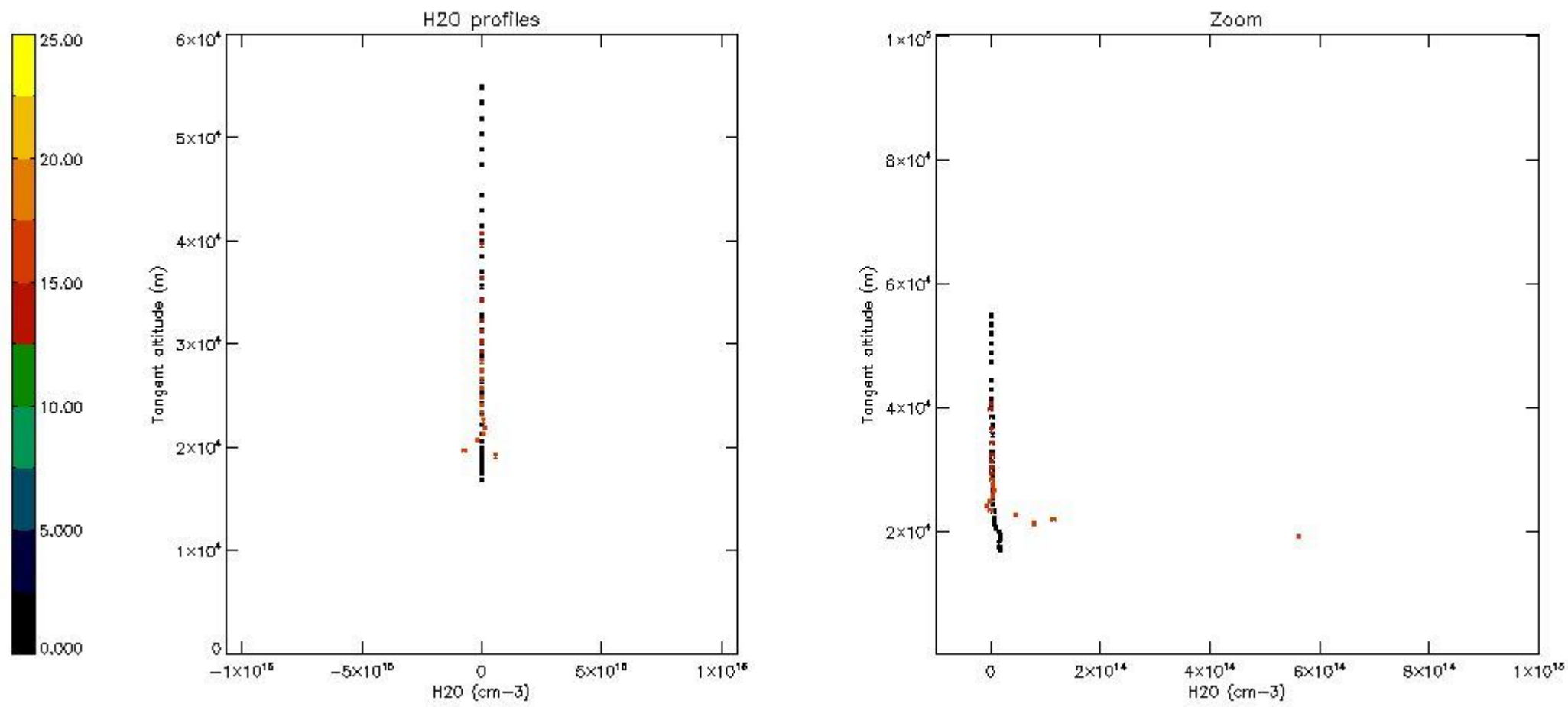
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

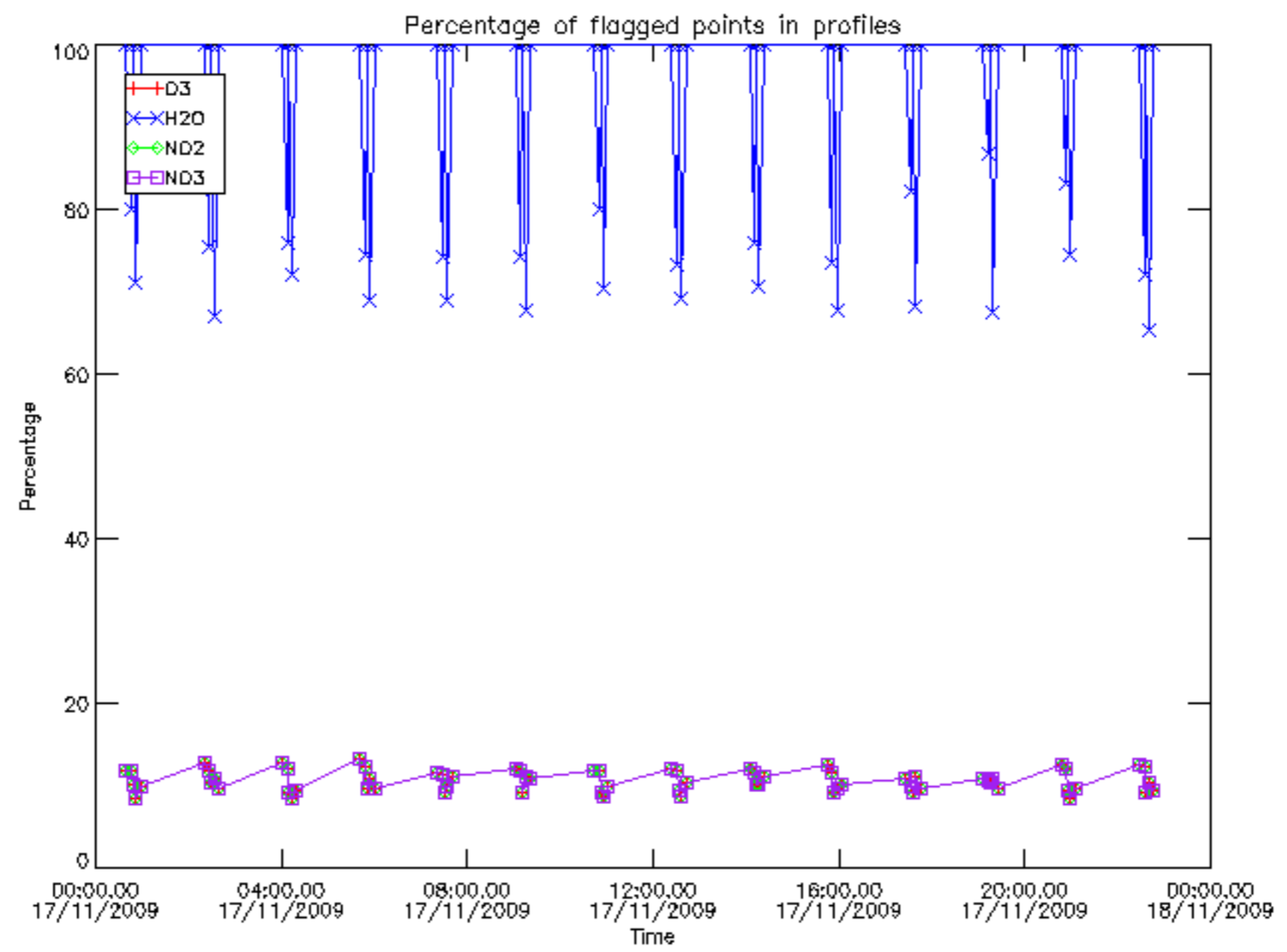
The colorbar represents the latitude.



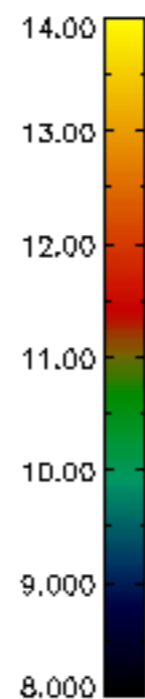
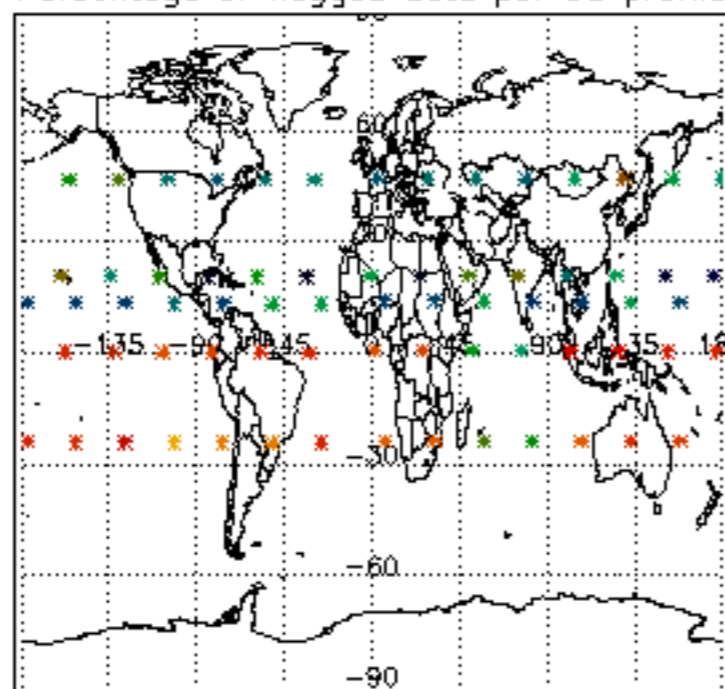
6. Auxiliary Data Files used for the production reported in section 2

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

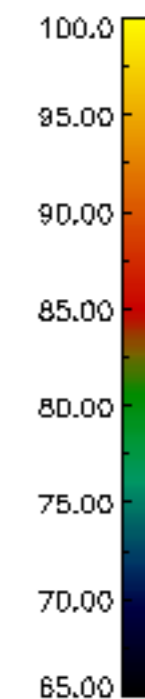
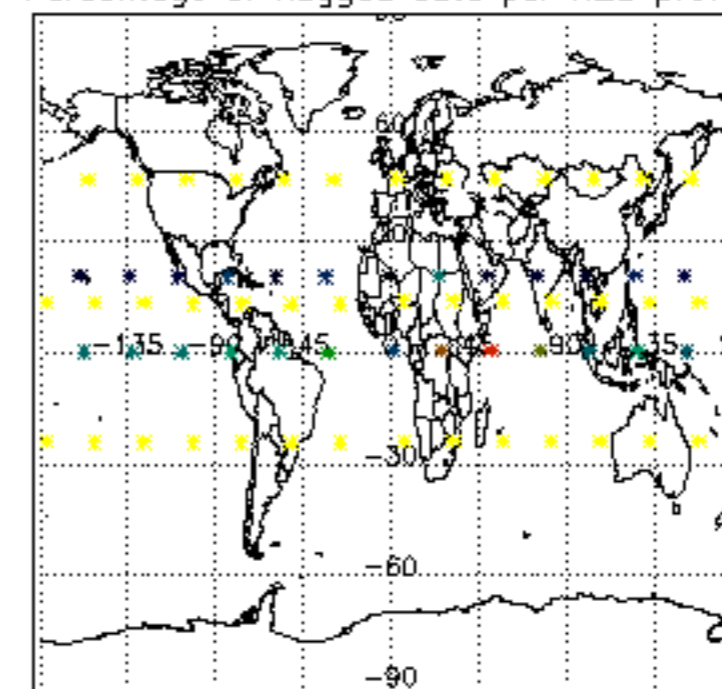
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	17-NOV-2009 00:04:23
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	17-NOV-2009 00:04:23
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	17-NOV-2009 00:04:23



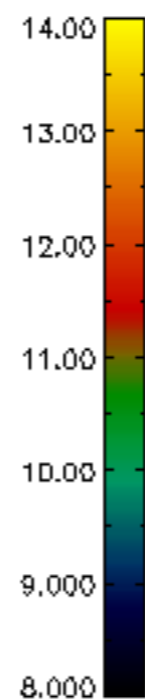
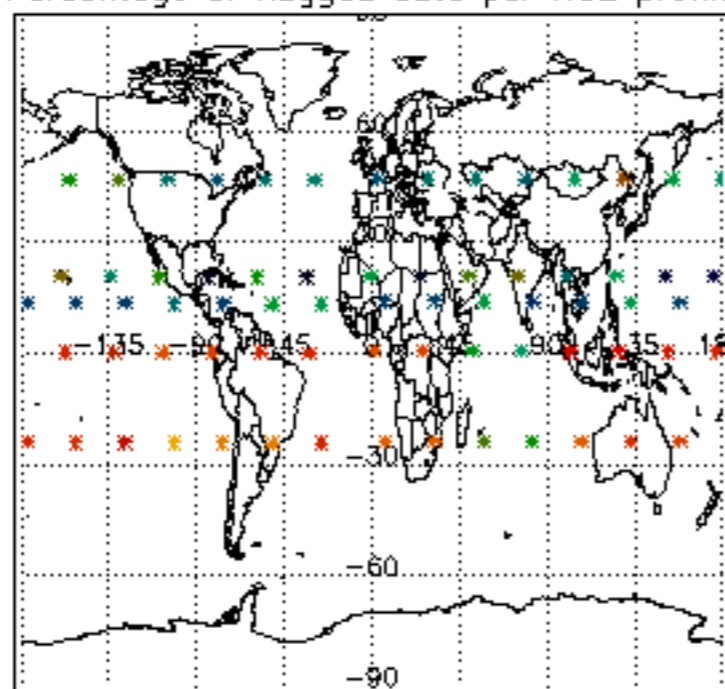
Percentage of flagged data per D3 profile



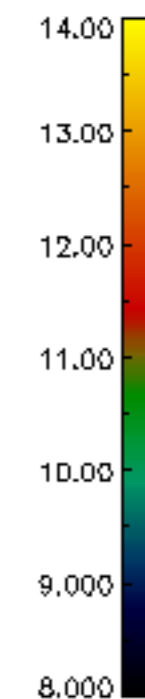
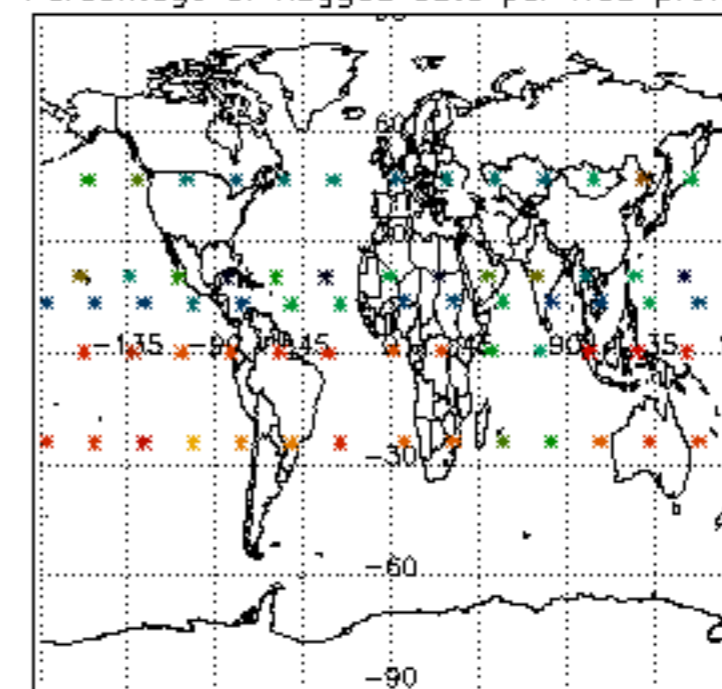
Percentage of flagged data per H2O profile

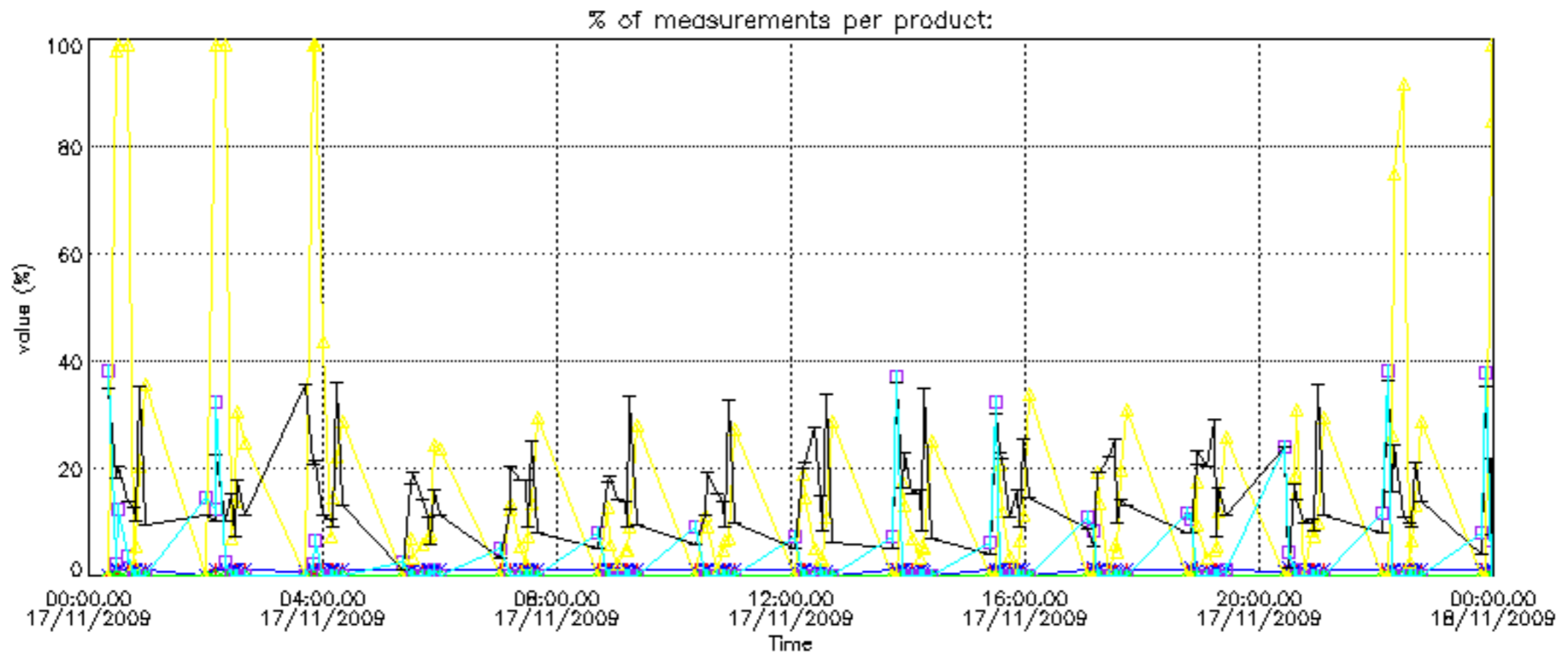


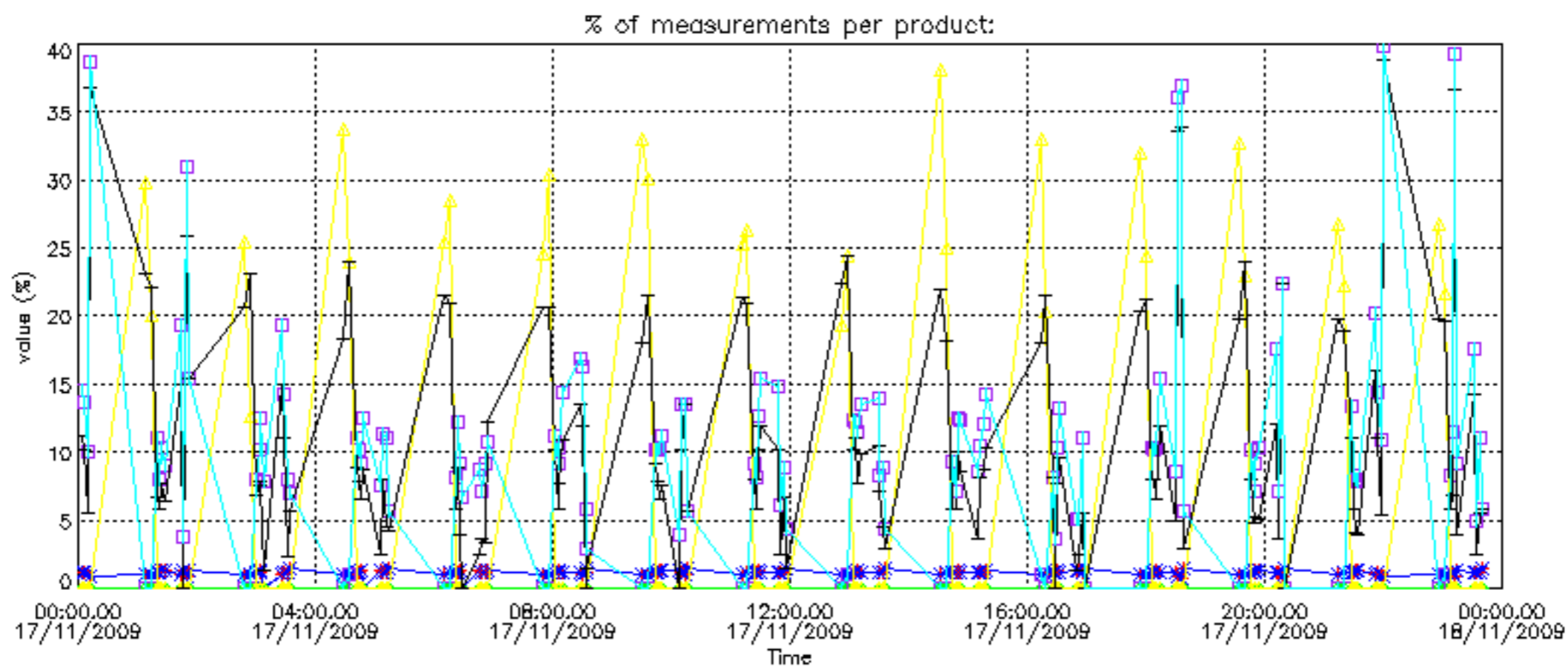
Percentage of flagged data per NO2 profile



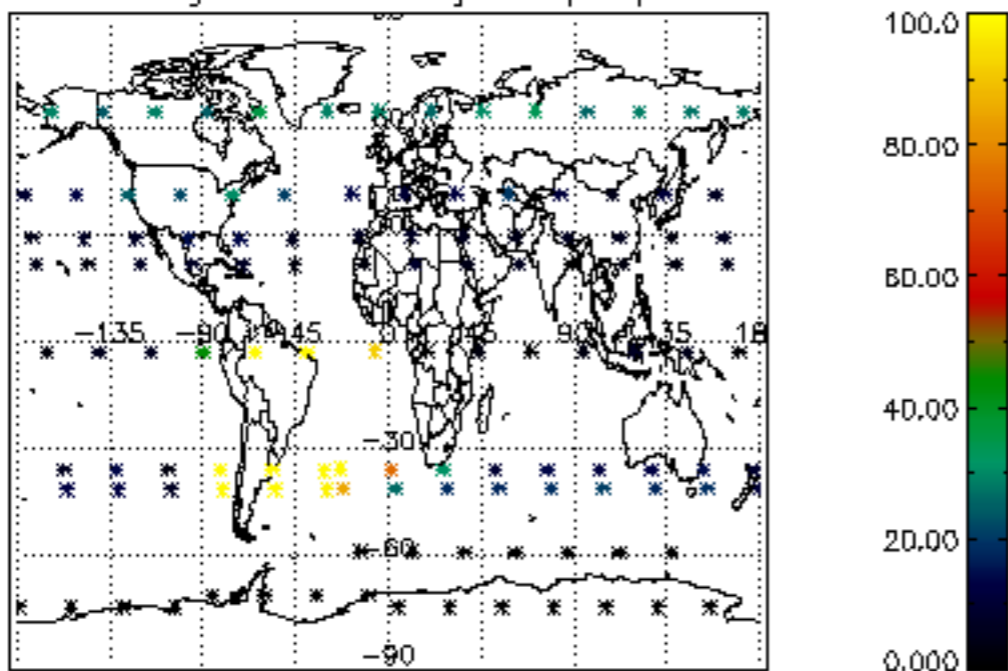
Percentage of flagged data per NO3 profile



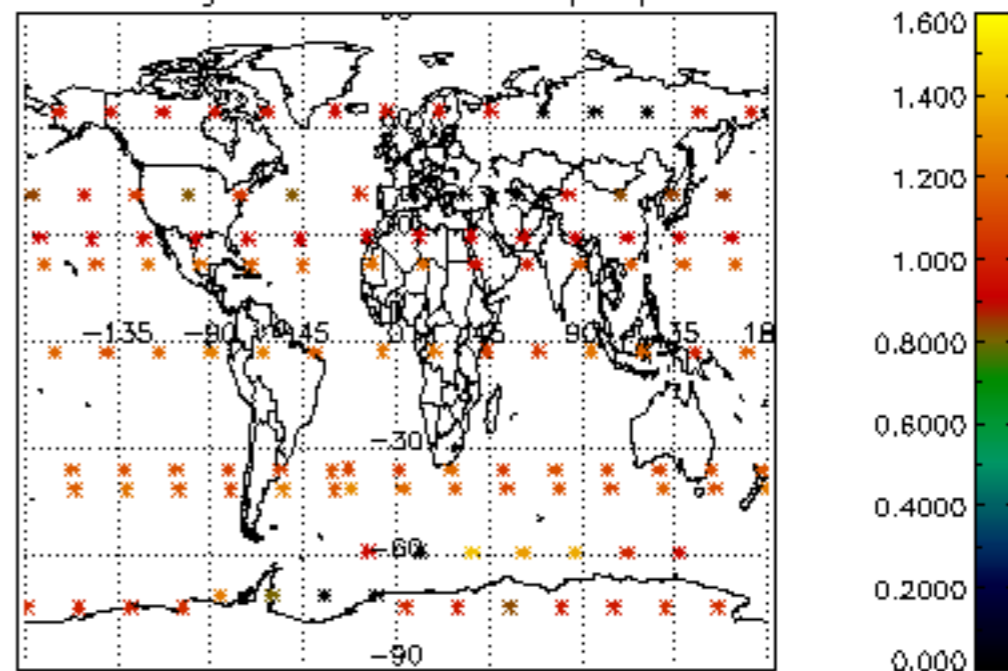




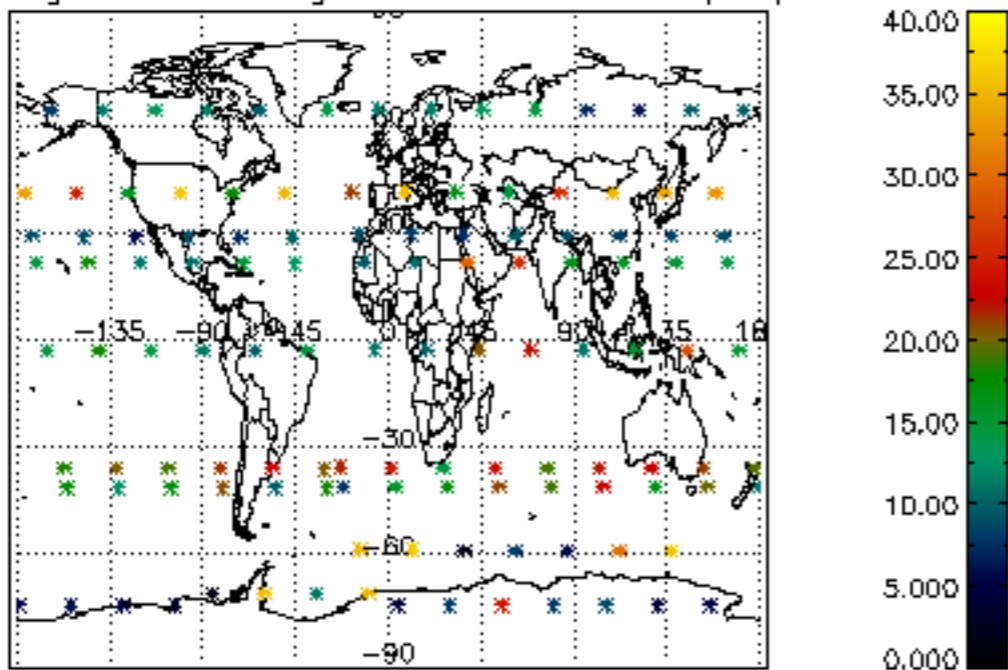
Percentage of cosmic ray hits per profile



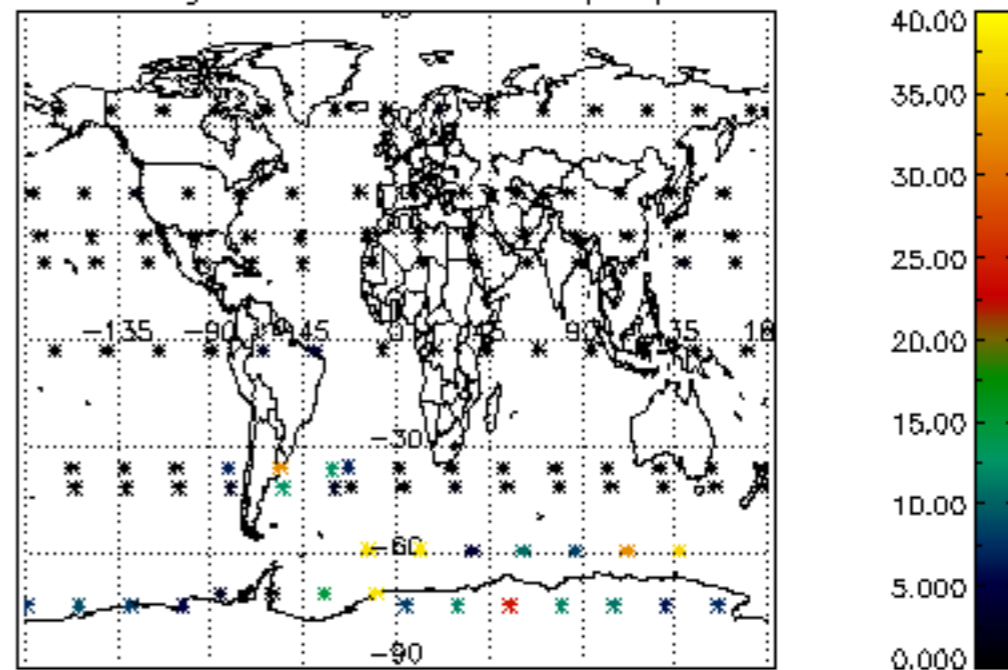
Percentage of datation errors per profile



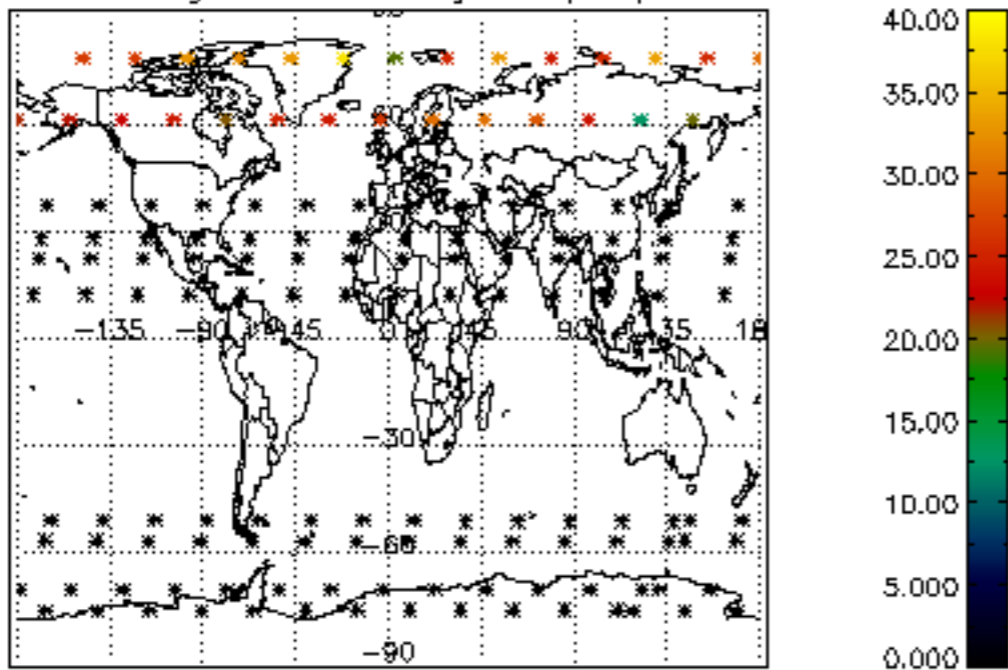
Percentage of star falling outside central band per profile



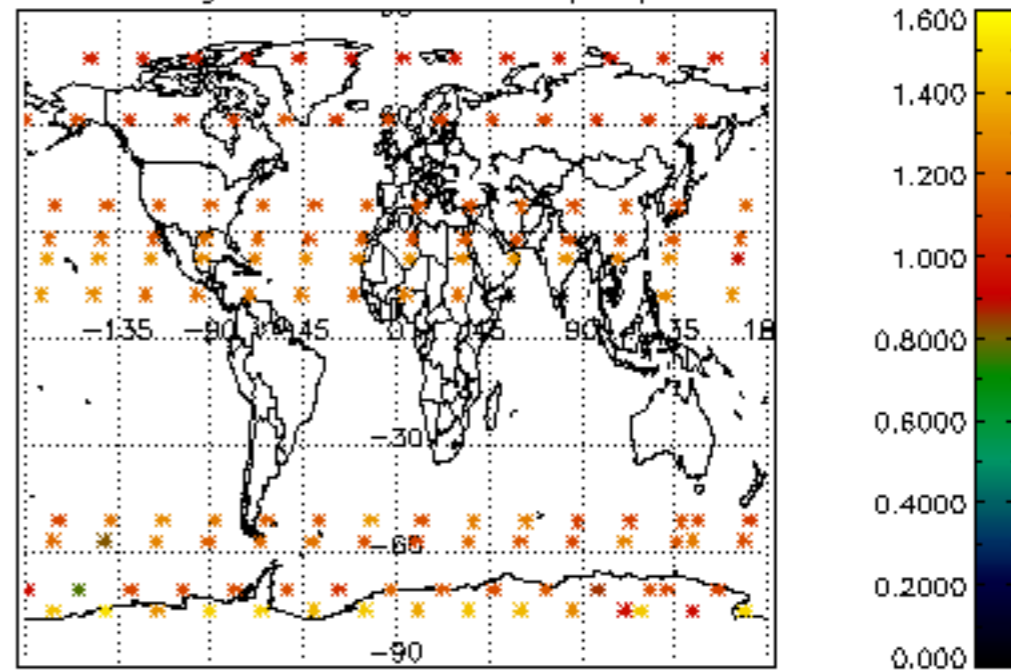
Percentage of saturation errors per profile



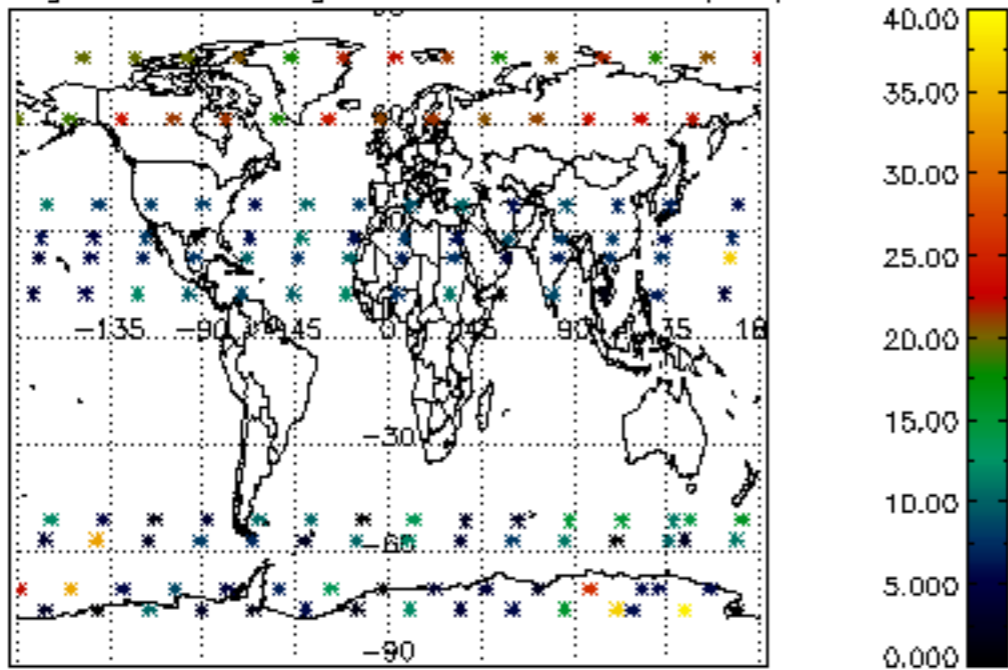
Percentage of cosmic ray hits per profile



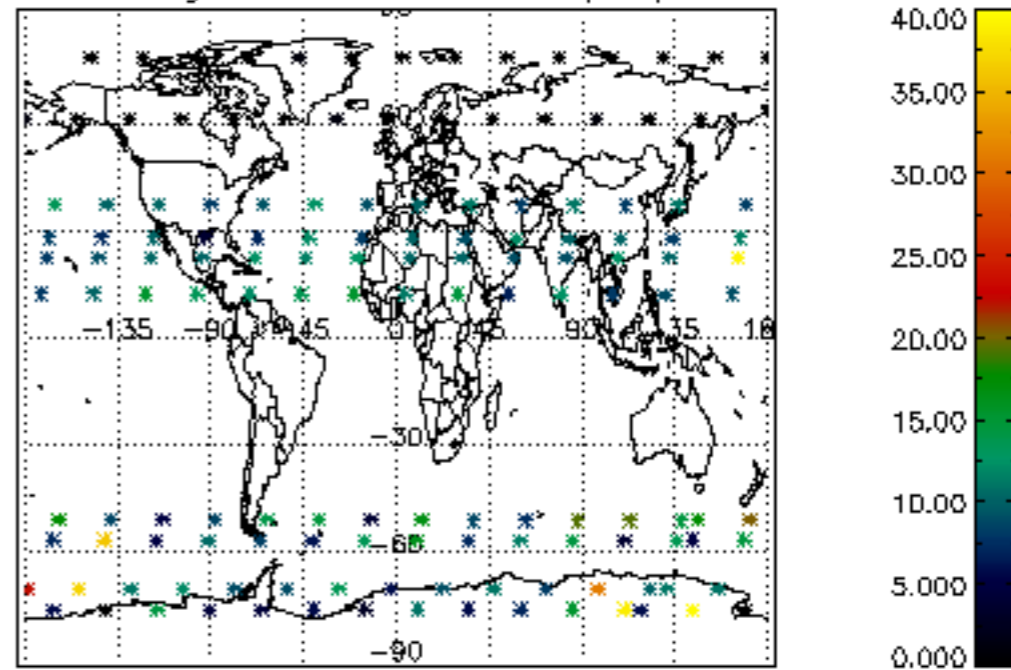
Percentage of datation errors per profile

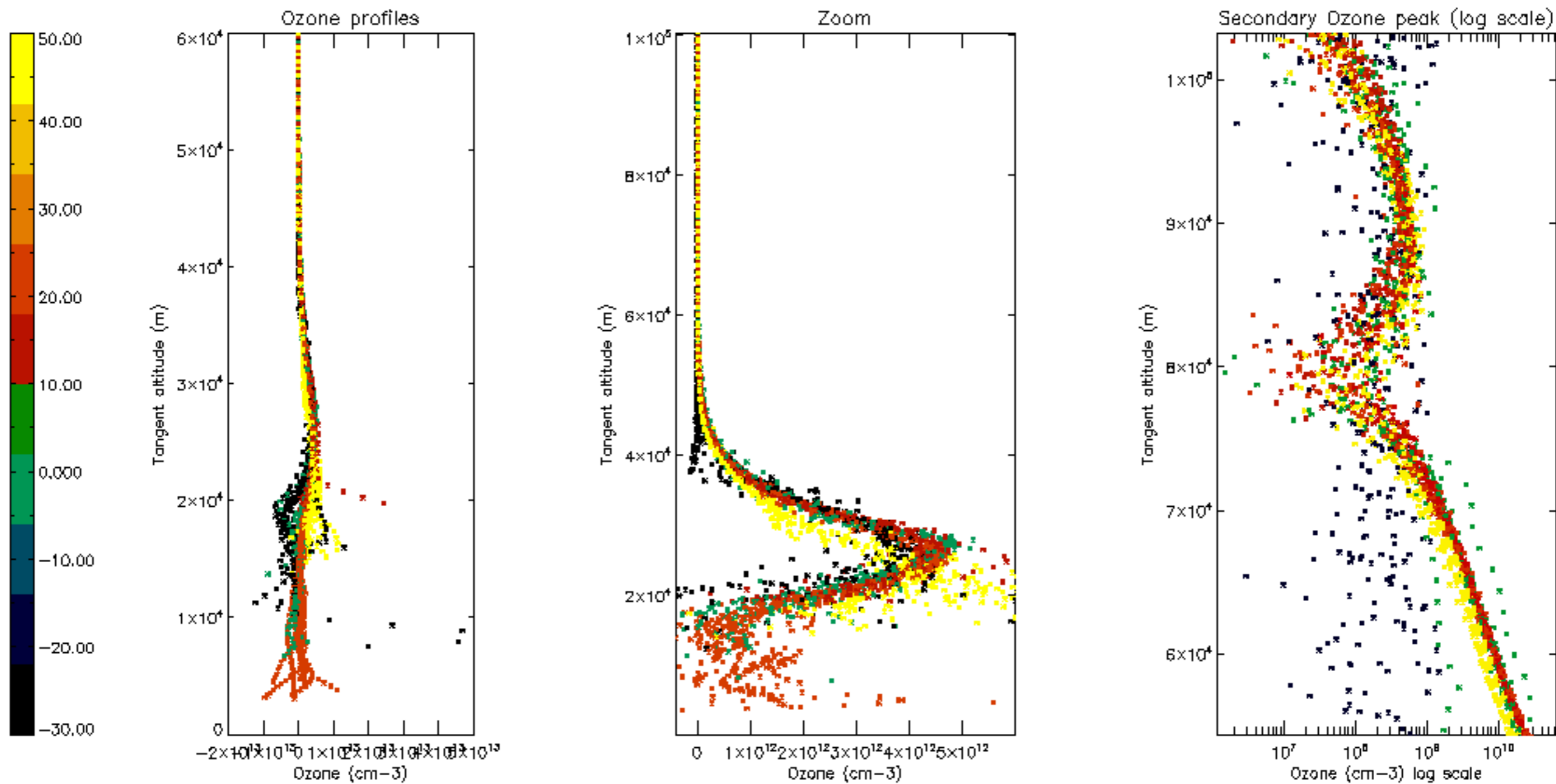


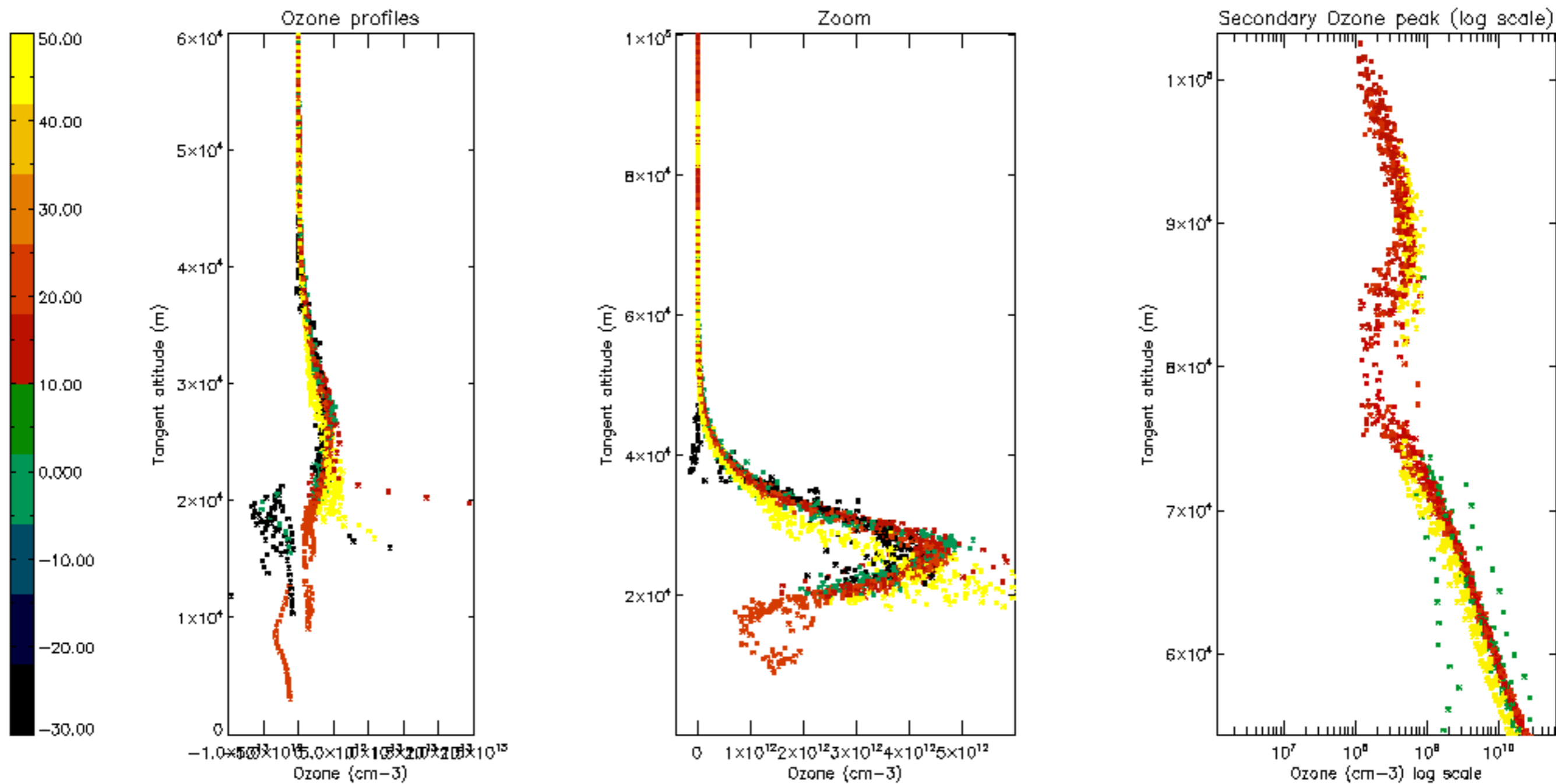
Percentage of star falling outside central band per profile

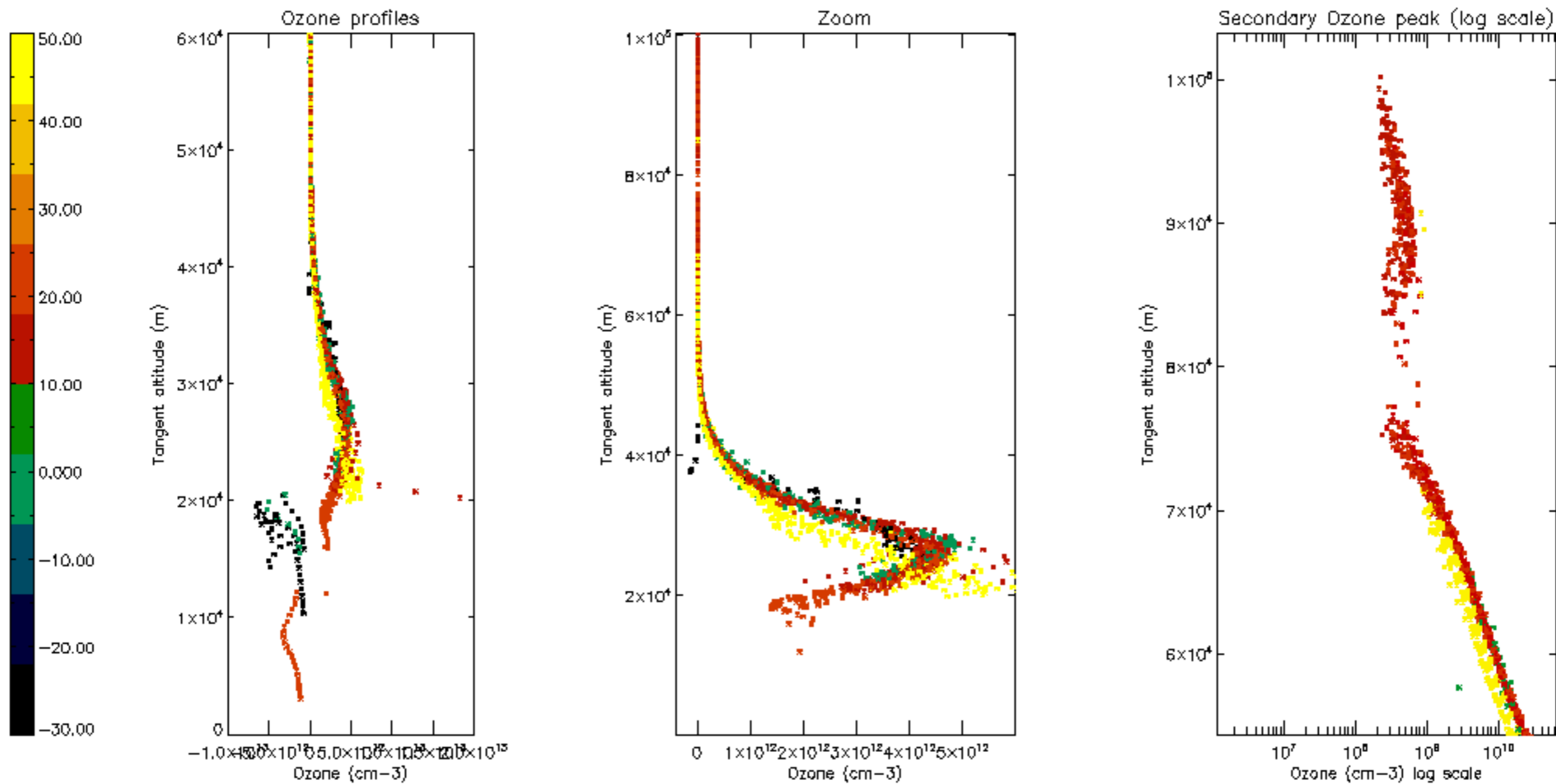


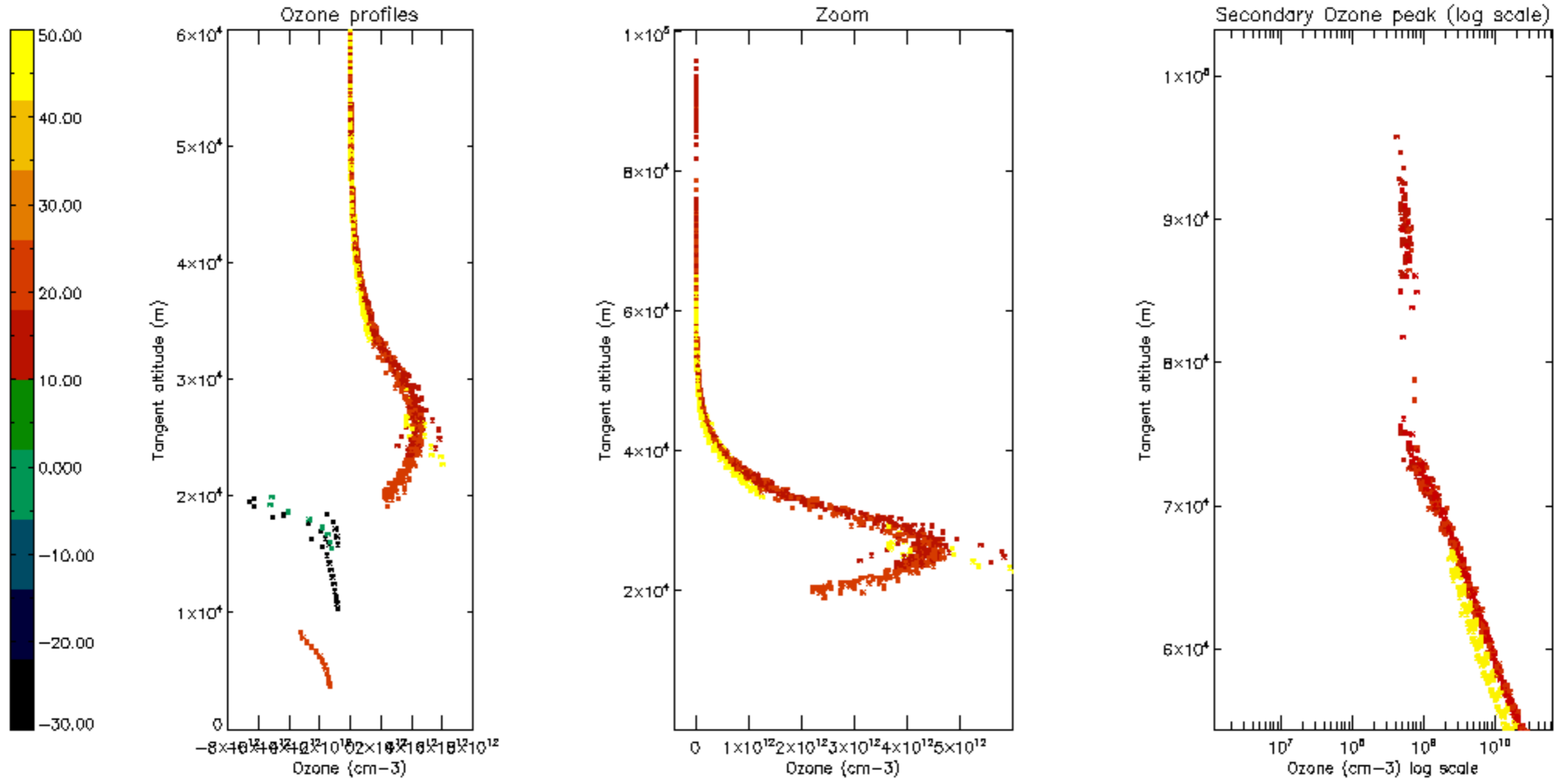
Percentage of saturation errors per profile

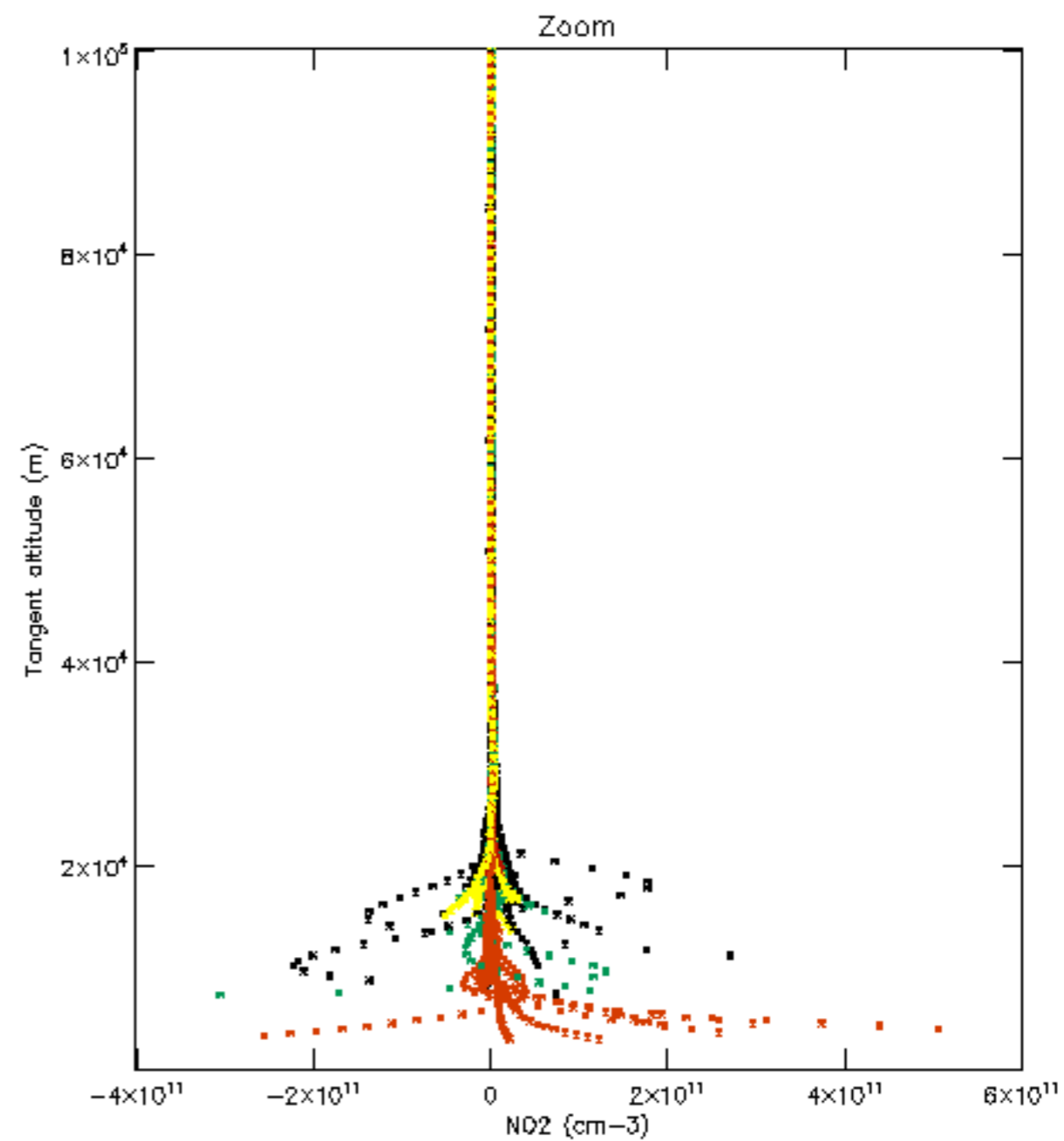
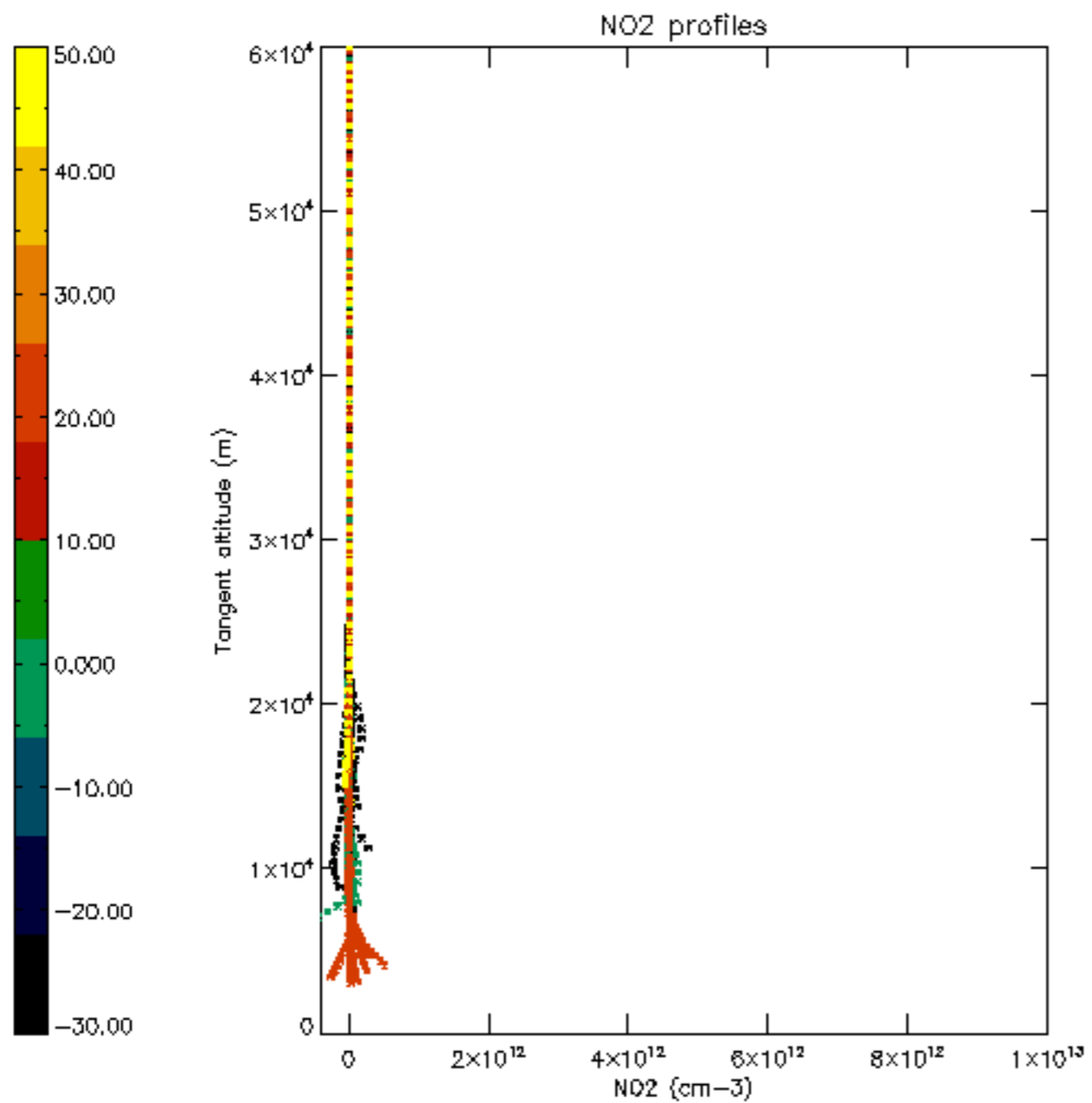


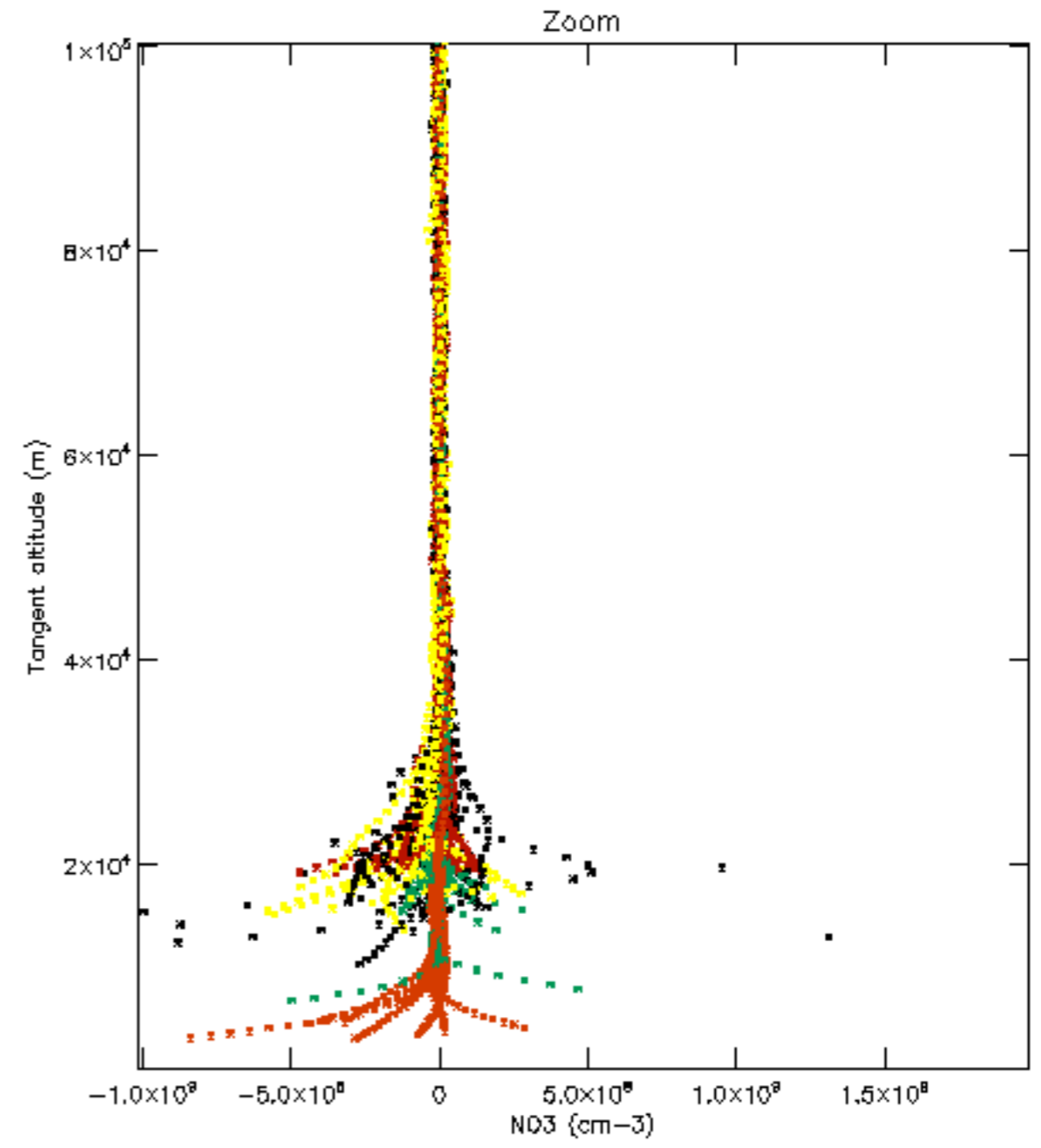
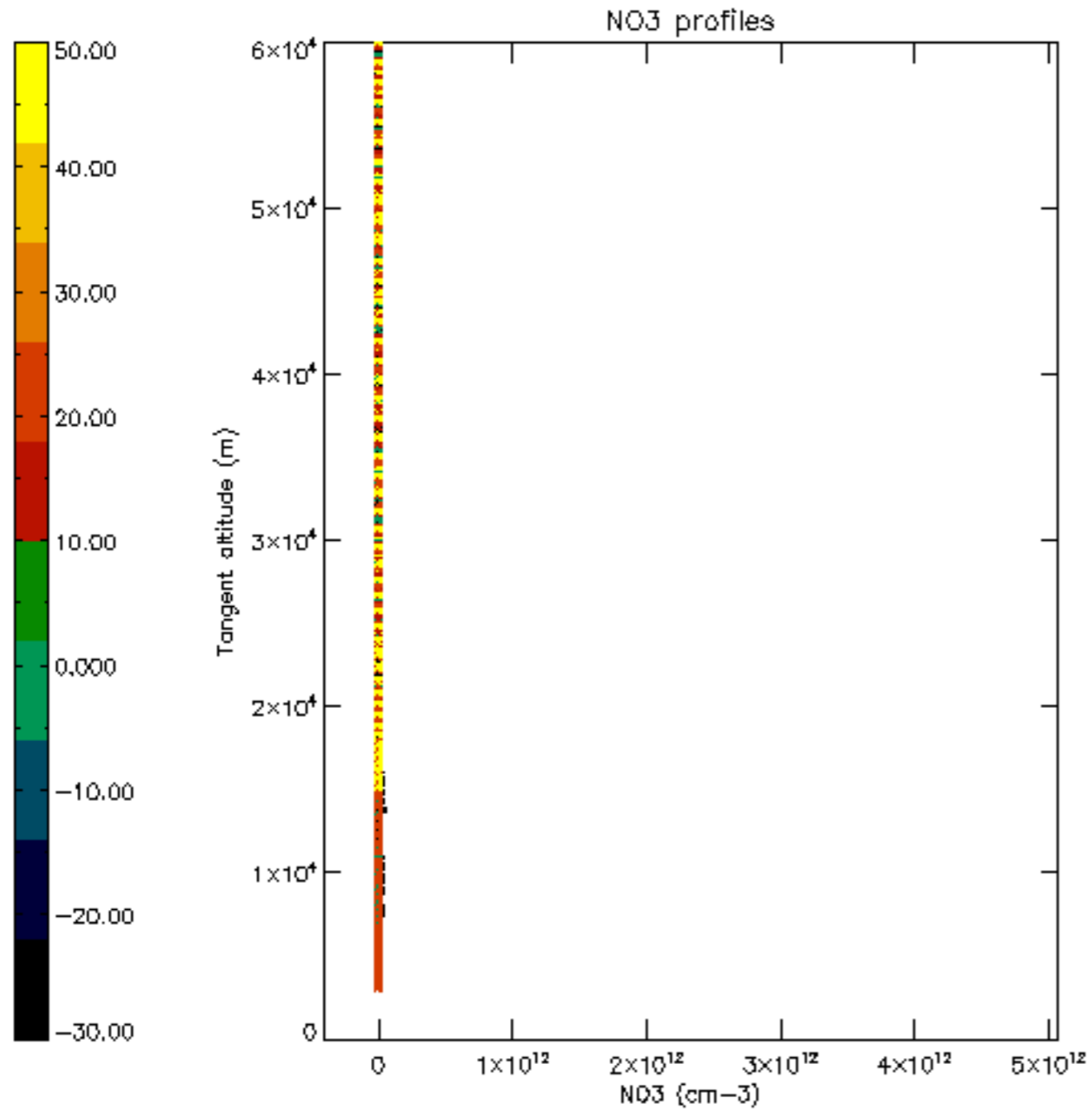


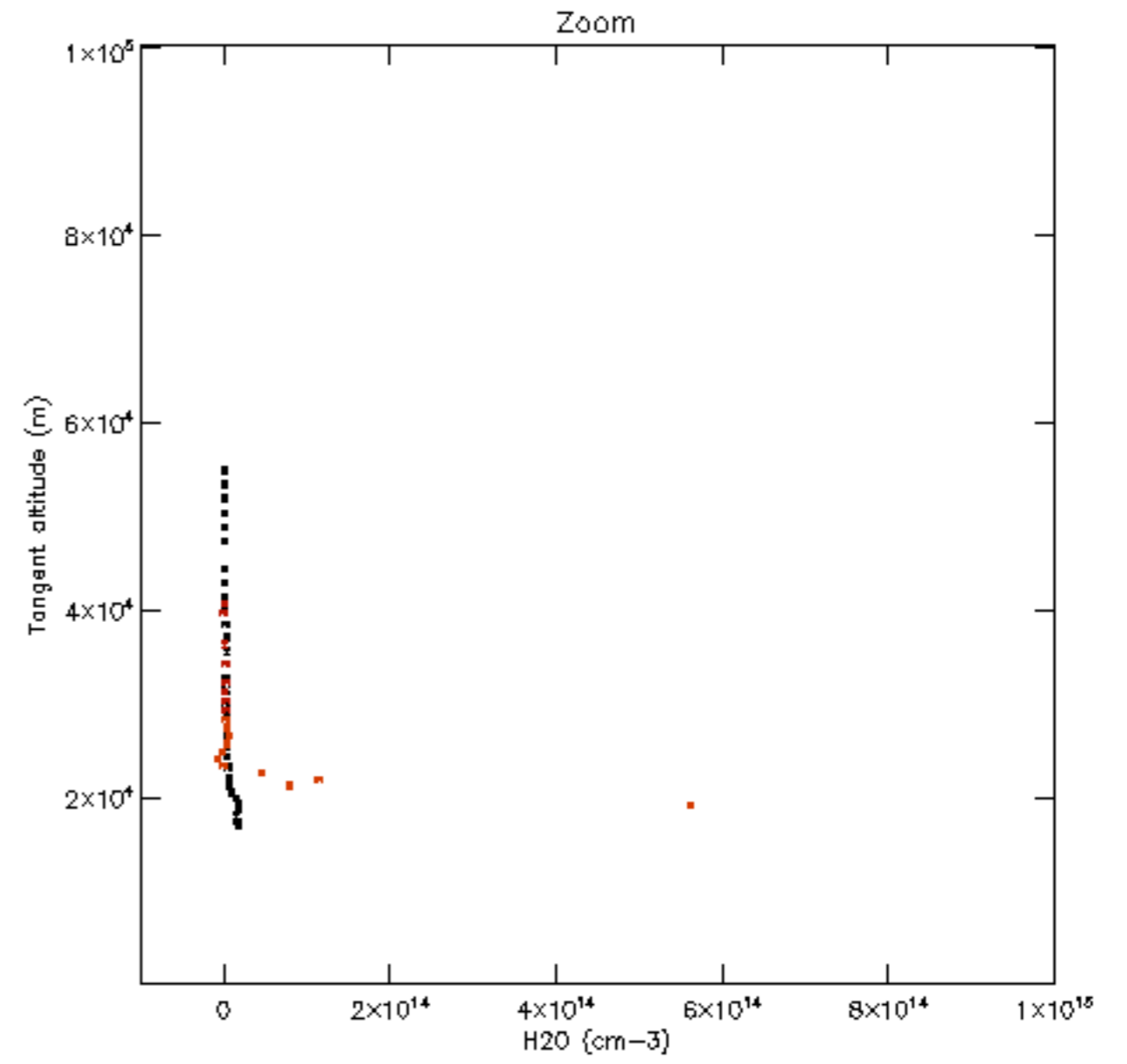
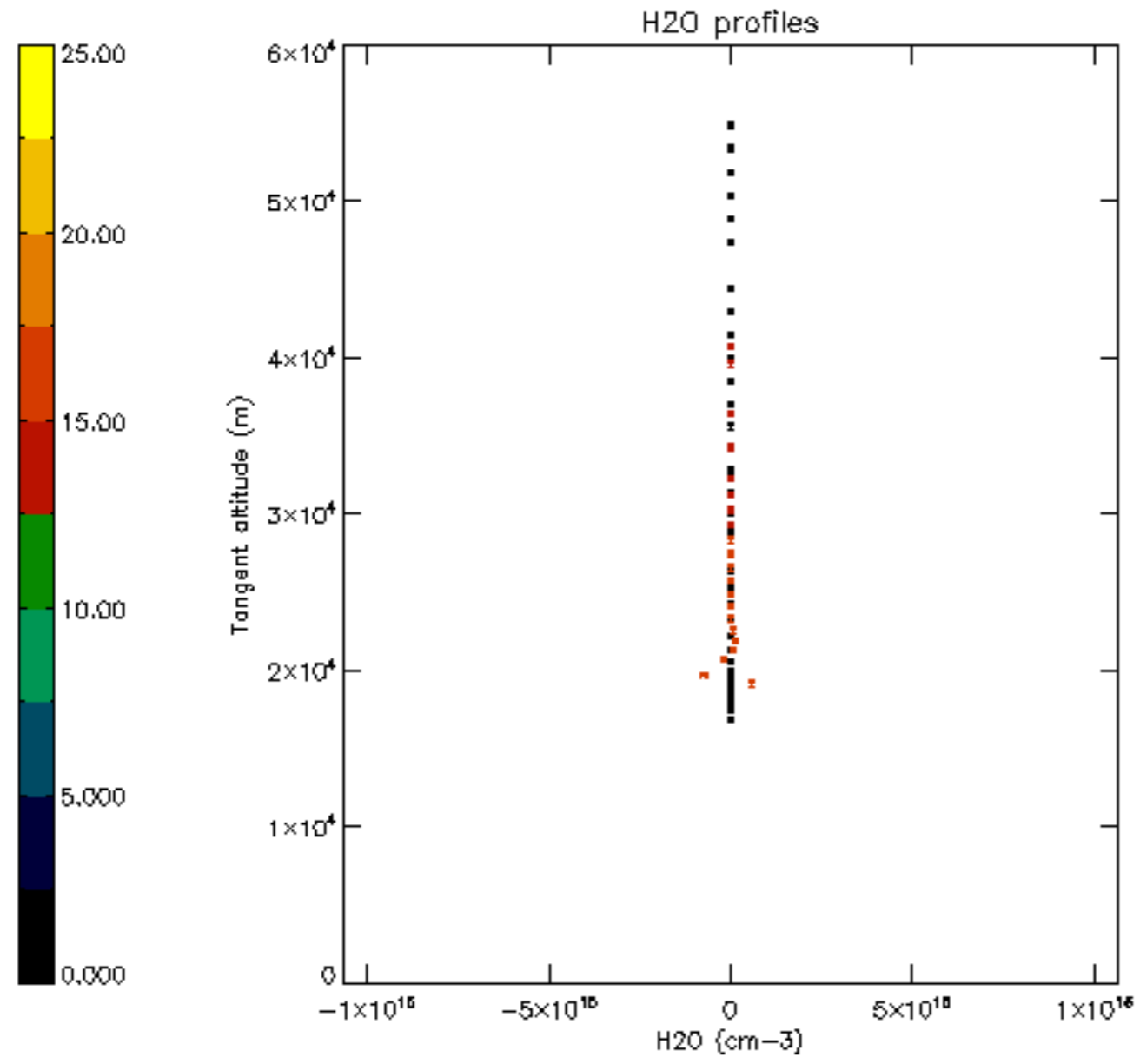


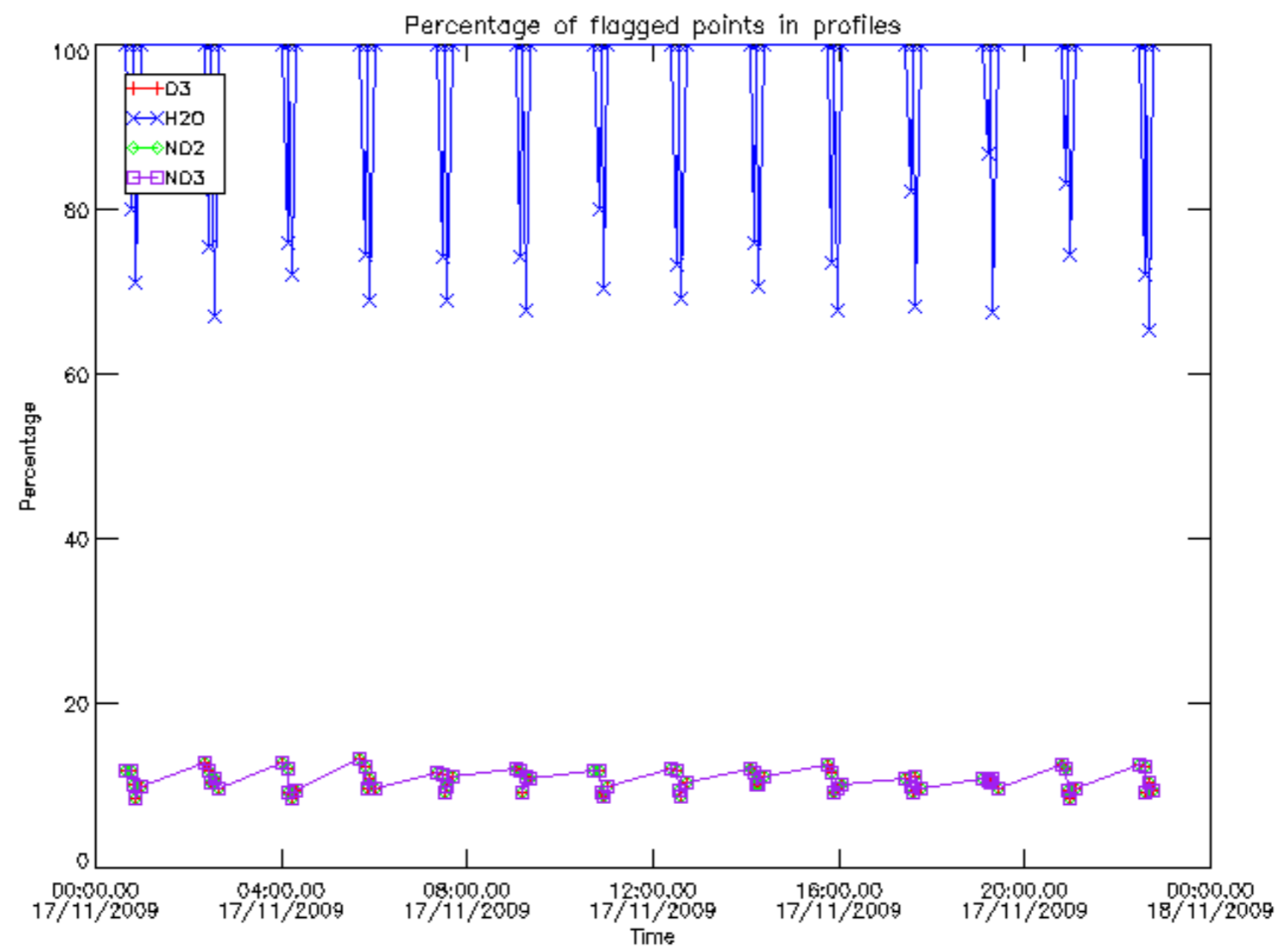




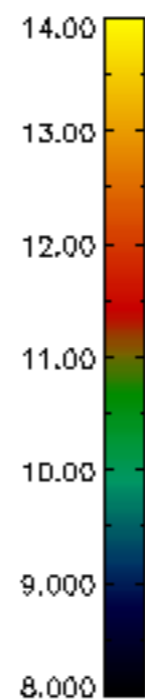
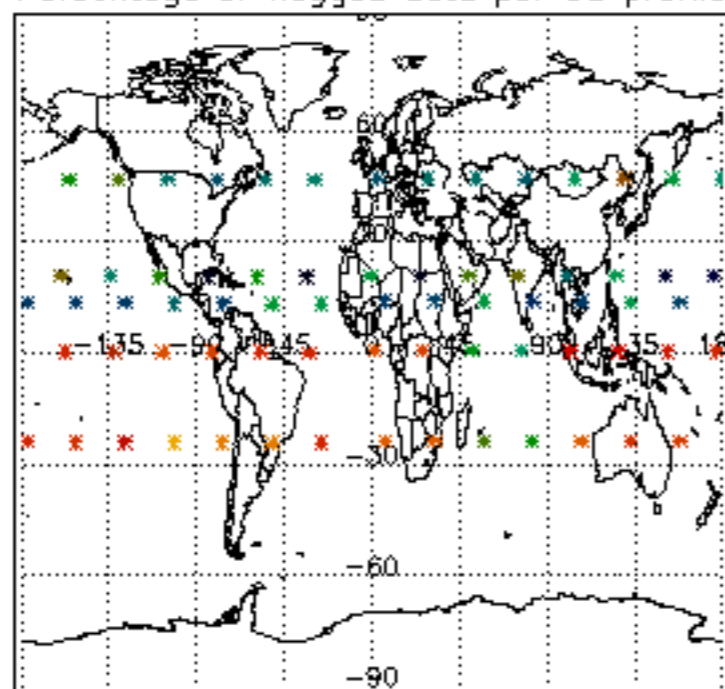




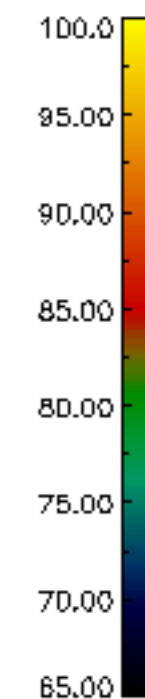
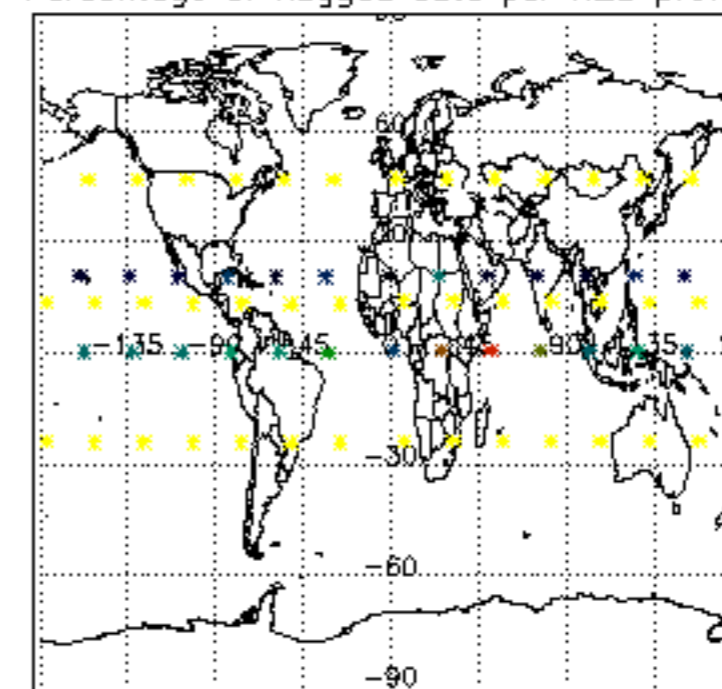




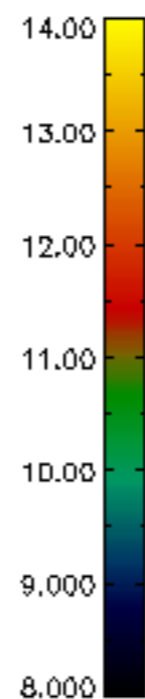
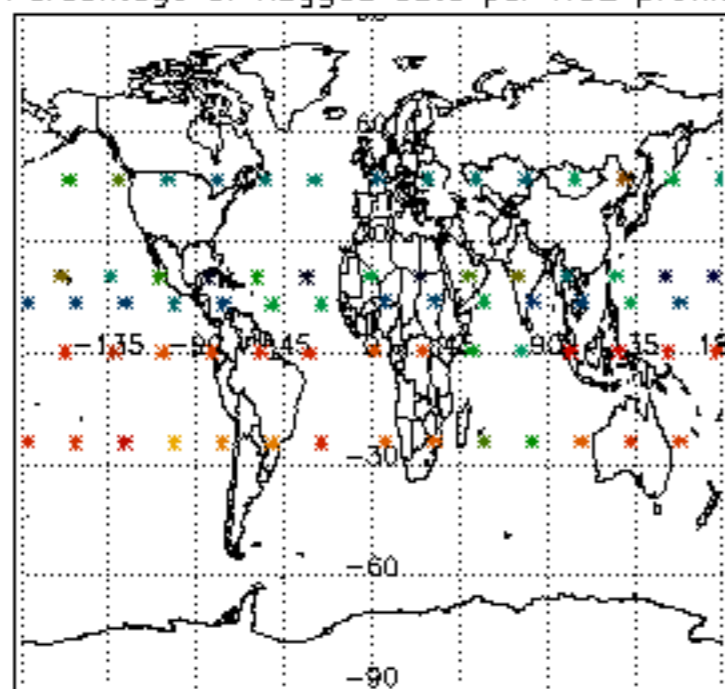
Percentage of flagged data per D3 profile



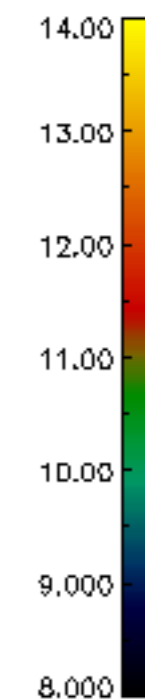
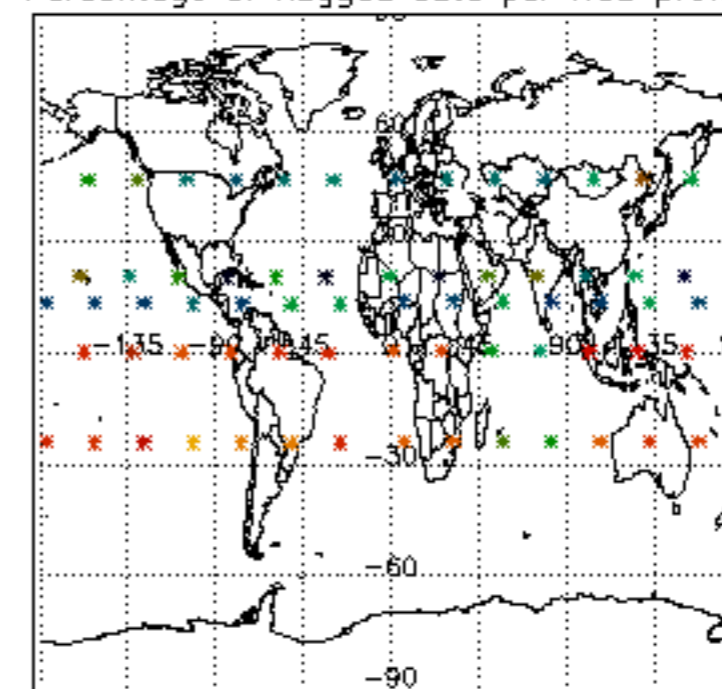
Percentage of flagged data per H2O profile

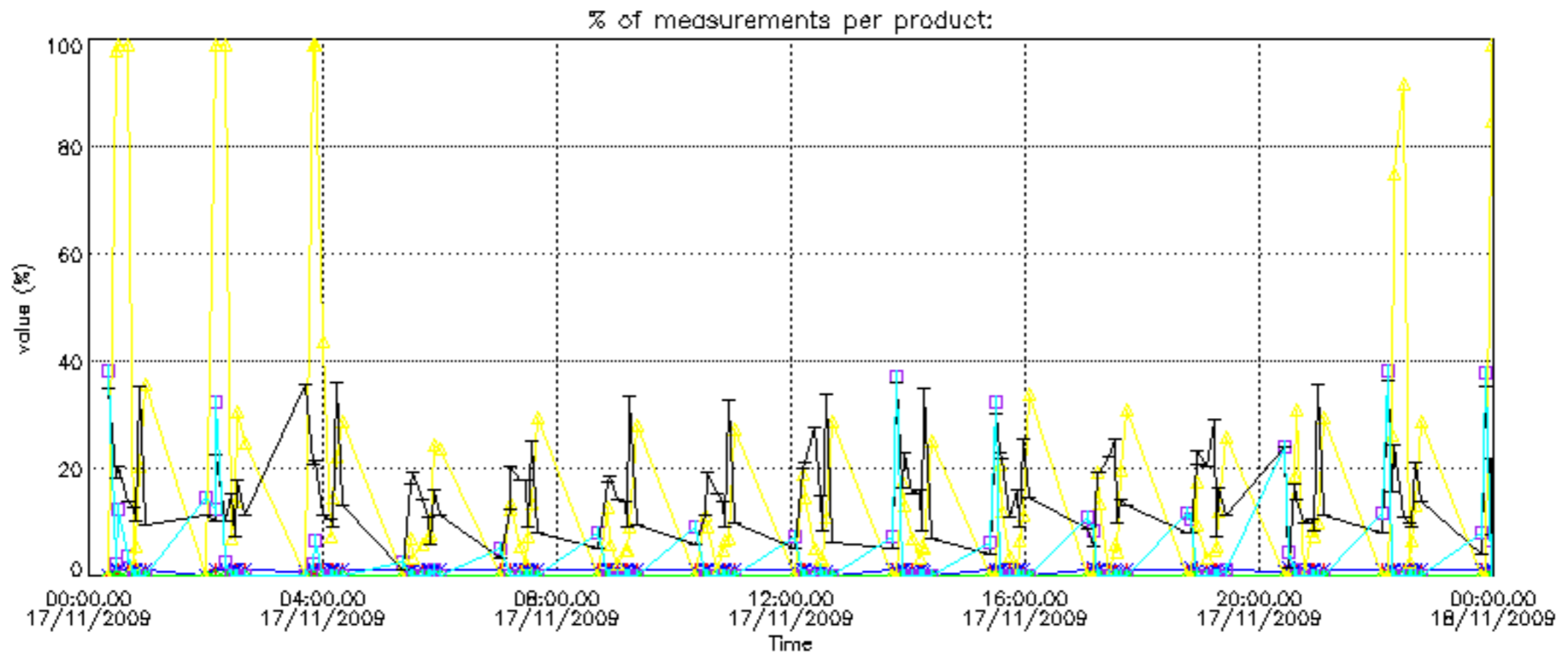


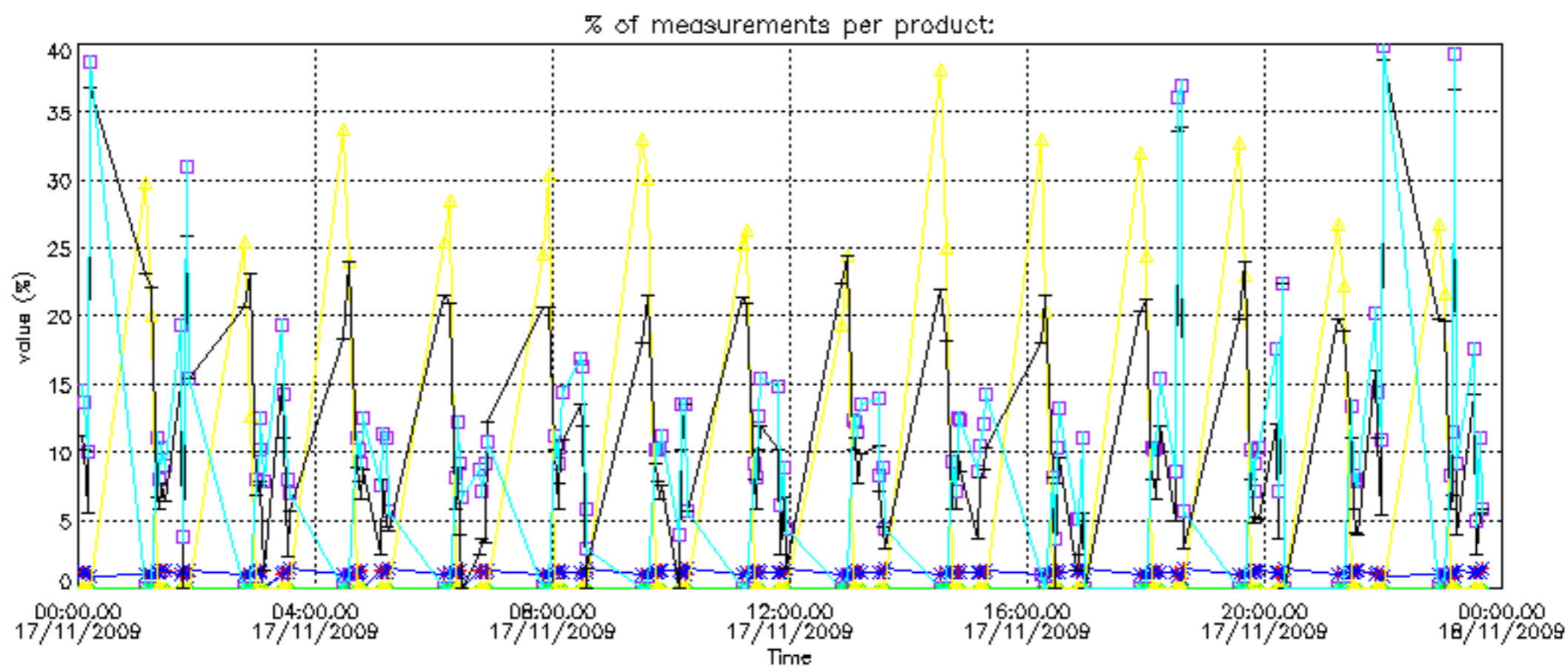
Percentage of flagged data per NO2 profile



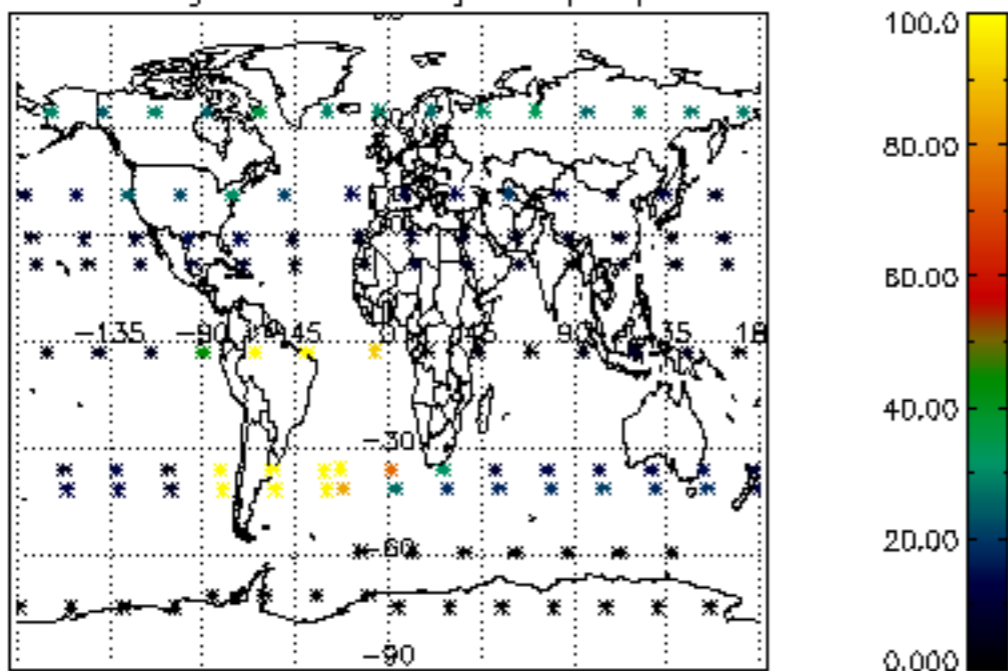
Percentage of flagged data per NO3 profile



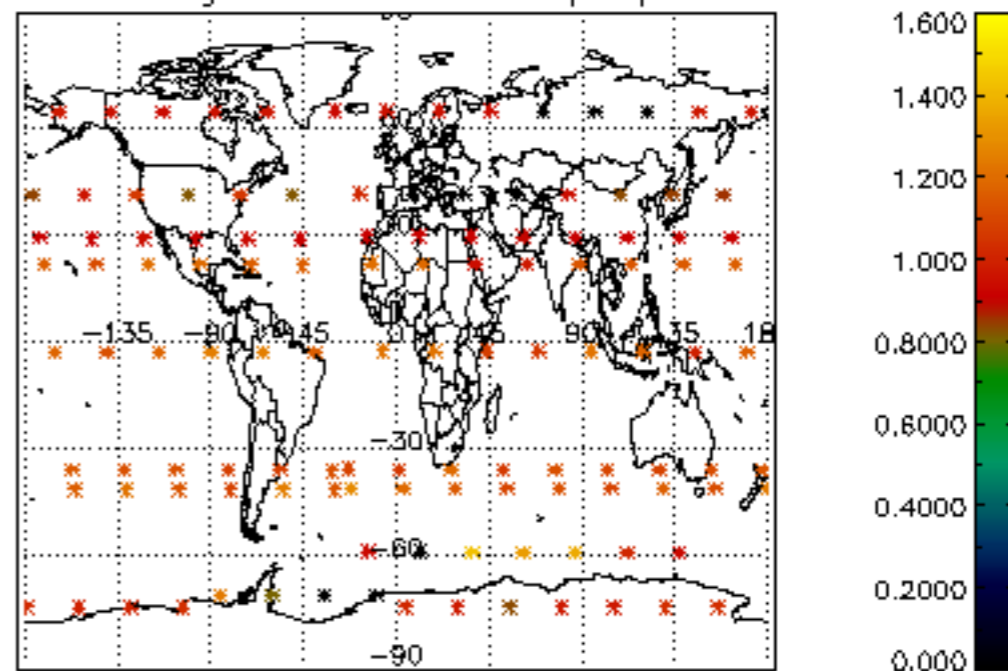




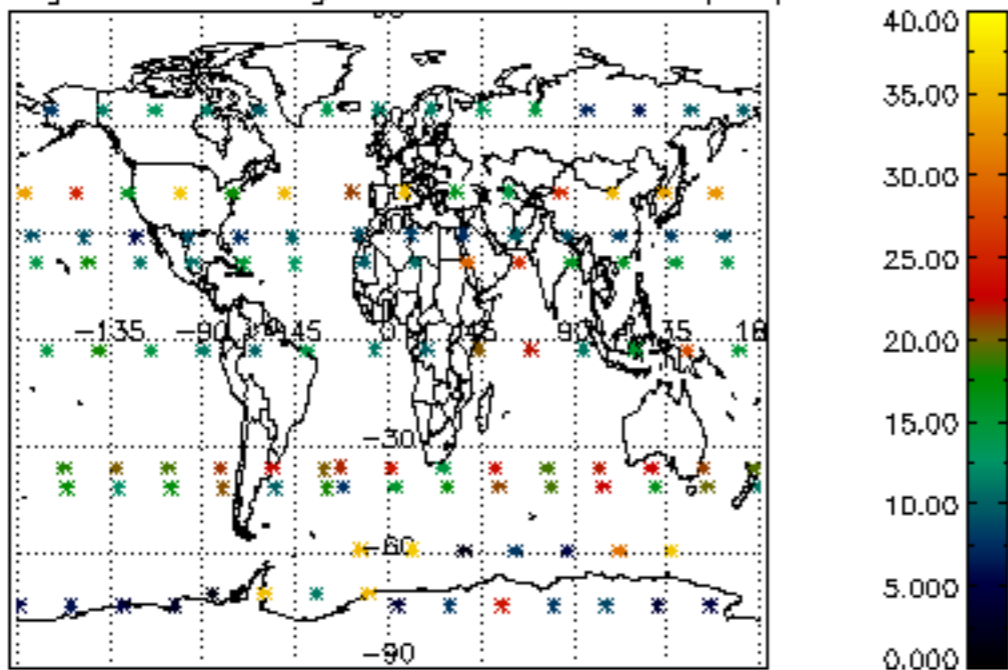
Percentage of cosmic ray hits per profile



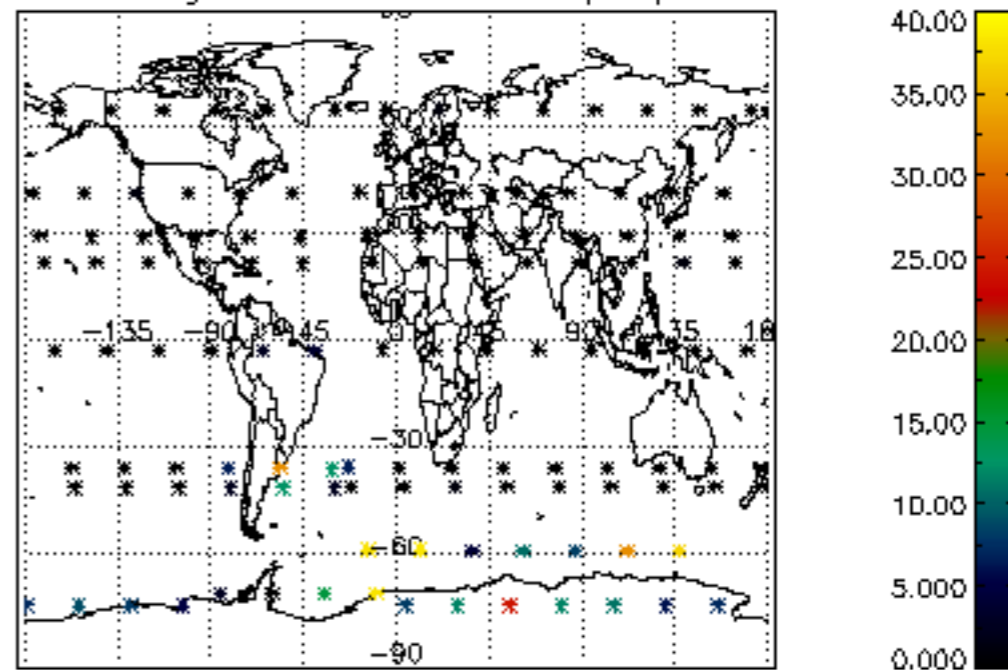
Percentage of datation errors per profile



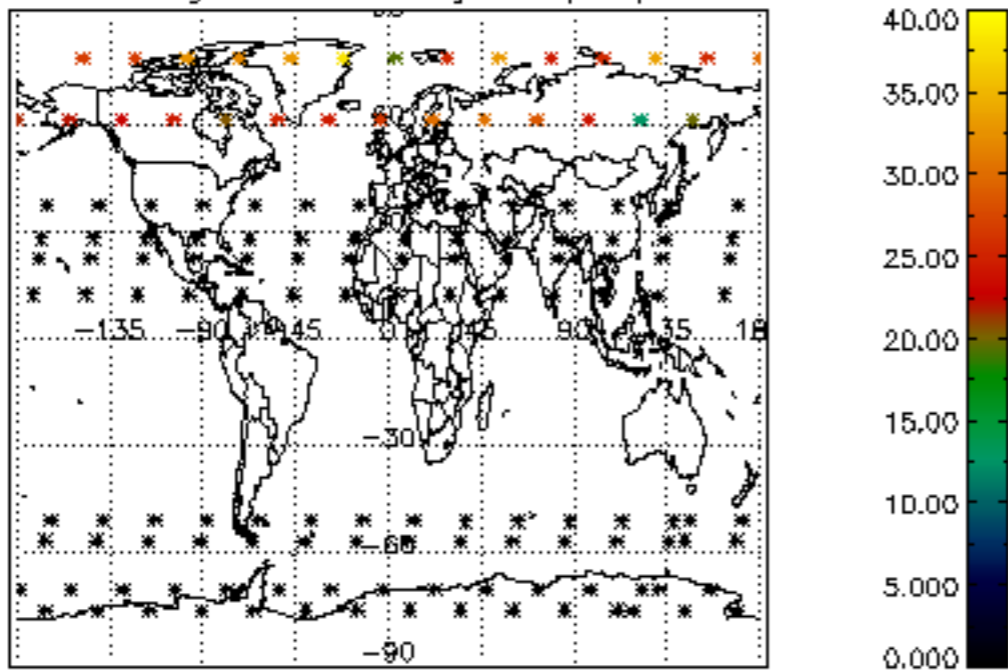
Percentage of star falling outside central band per profile



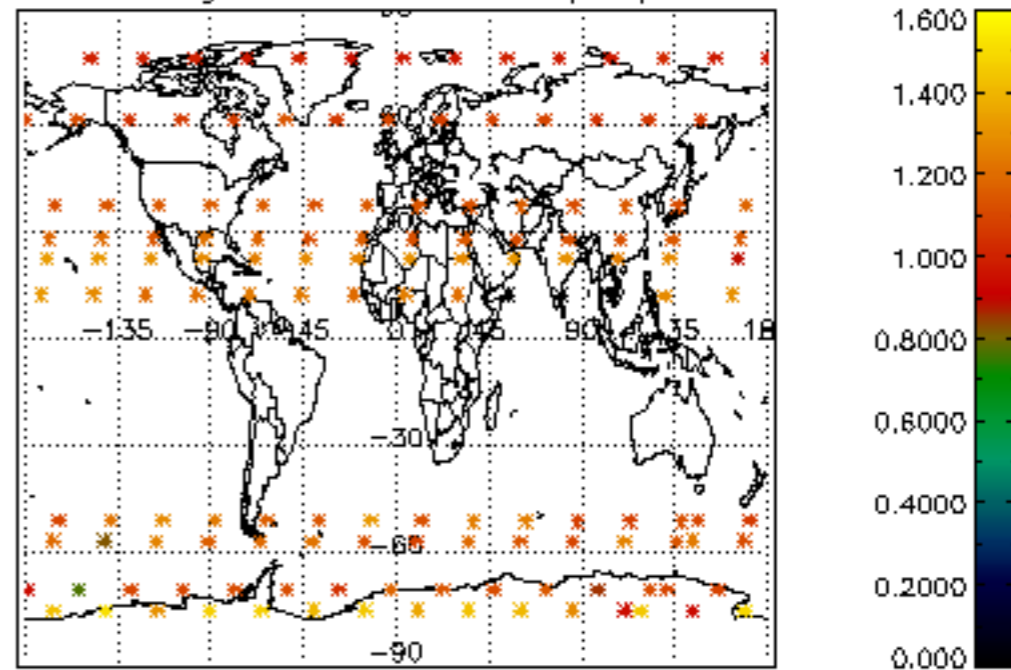
Percentage of saturation errors per profile



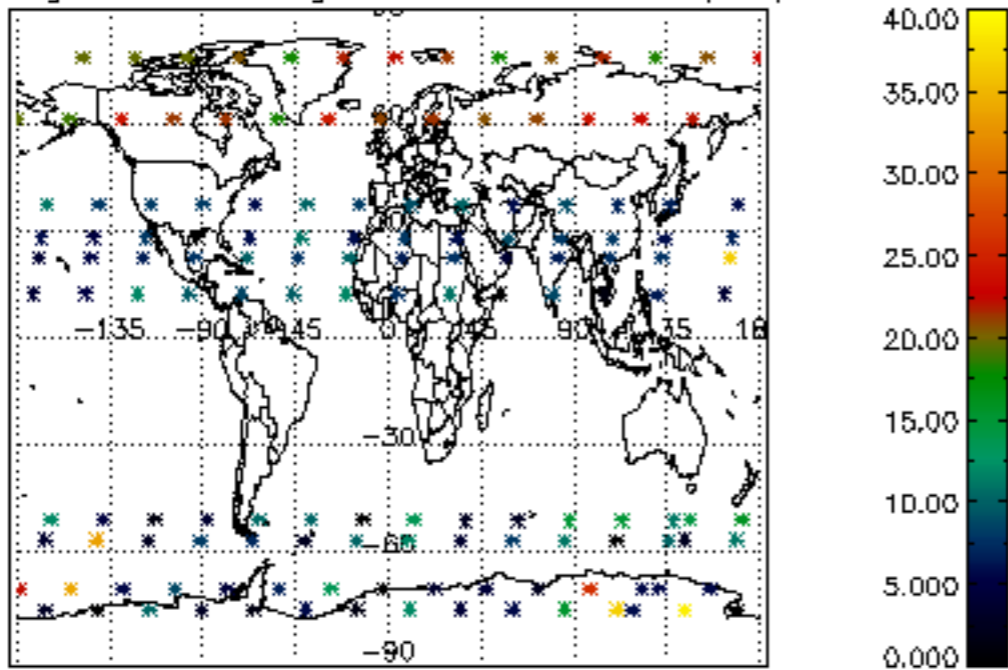
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

