

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	24APR2013 03:03:48
Data source version	GOMOS/6.01
Start time of products	06-08-2006 (06AUG2006 00:00:00)
Stop time of products	07-08-2006 (07AUG2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	257
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

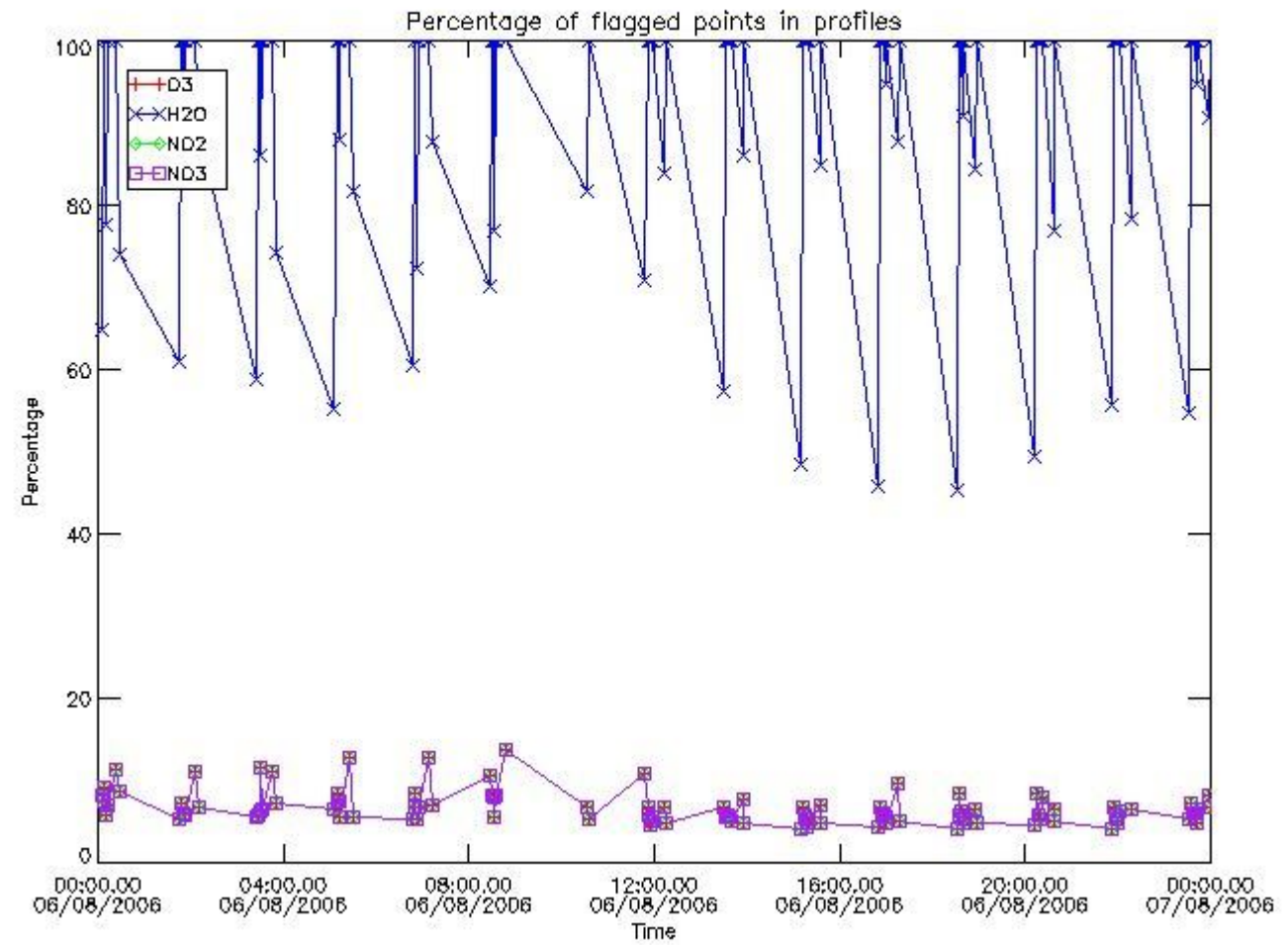
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060806_000029_000000352050_00073_23173_0495.N1	06-AUG-2006 00:00:29	Twilight	34.500	176	23Zet Tau	3.0200	22000.	69	23173	No
2	GOM_NL__2PRFIN20060806_000411_000000382050_00073_23173_0496.N1	06-AUG-2006 00:04:11	Dark	37.500	14	58Alp Ori	0.87000	3000.0	75	23173	No
3	GOM_NL__2PRFIN20060806_000703_000000342050_00073_23173_0497.N1	06-AUG-2006 00:07:03	Dark	34.000	30	46Eps Ori	1.6940	30000.	68	23173	No
4	GOM_NL__2PRFIN20060806_000824_000000342050_00073_23173_0498.N1	06-AUG-2006 00:08:24	Dark	34.000	125	44Iot Ori	2.7700	30000.	68	23173	No
5	GOM_NL__2PRFIN20060806_000940_000000452050_00073_23173_0499.N1	06-AUG-2006 00:09:40	Dark	45.000	7	19Bet Ori	0.10000	14000.	90	23173	No
6	GOM_NL__2PRFIN20060806_001145_000000372050_00073_23173_0500.N1	06-AUG-2006 00:11:45	Dark	36.500	101	11Alp Lep	2.5820	7000.0	73	23173	No
7	GOM_NL__2PRFIN20060806_002415_000000362050_00074_23174_0481.N1	06-AUG-2006 00:24:15	Dark	36.000	157	The1Eri	2.9060	9300.0	72	23174	No
8	GOM_NL__2PRFIN20060806_002924_000000352050_00074_23174_0482.N1	06-AUG-2006 00:29:24	Dark	35.000	9	Alp Eri	0.45300	24000.	70	23174	No
9	GOM_NL__2PRFIN20060806_003556_000000352050_00074_23174_0483.N1	06-AUG-2006 00:35:56	Straylight	35.000	148	Alp Tuc	2.8780	4100.0	70	23174	No
10	GOM_NL__2PRFIN20060806_003923_000000422050_00074_23174_0484.N1	06-AUG-2006 00:39:23	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	23174	No
11	GOM_NL__2PRFIN20060806_004228_000000382050_00074_23174_0485.N1	06-AUG-2006 00:42:28	Straylight	37.500	172	Gam Gru	3.0030	13100.	75	23174	No
12	GOM_NL__2PRFIN20060806_005746_000000362050_00074_23174_0486.N1	06-AUG-2006 00:57:46	Bright	35.500	11	53Alp Aql	0.76500	8000.0	71	23174	No
13	GOM_NL__2PRFIN20060806_010557_000000352050_00074_23174_0487.N1	06-AUG-2006 01:05:57	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	23174	No
14	GOM_NL__2PRFIN20060806_010717_000000332050_00074_23174_0488.N1	06-AUG-2006 01:07:17	Bright	32.500	66	37Gam Cyg	2.2080	5900.0	65	23174	No
15	GOM_NL__2PRFIN20060806_010907_000000372050_00074_23174_0489.N1	06-AUG-2006 01:09:07	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	23174	No
16	GOM_NL__2PRFIN20060806_011433_000000342050_00074_23174_0490.N1	06-AUG-2006 01:14:33	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	23174	No
17	GOM_NL__2PRFIN20060806_012049_000000302050_00074_23174_0491.N1	06-AUG-2006 01:20:49	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23174	No
18	GOM_NL__2PRFIN20060806_013331_000000382050_00074_23174_0492.N1	06-AUG-2006 01:33:31	Bright	38.000	6	13Alp Aur	0.080000	3400.0	76	23174	No
19	GOM_NL__2PRFIN20060806_013603_000000302050_00074_23174_0493.N1	06-AUG-2006 01:36:03	Bright	30.000	107	37The Aur	2.6490	11000.	60	23174	No
20	GOM_NL__2PRFIN20060806_013856_000000392050_00074_23174_0494.N1	06-AUG-2006 01:38:56	Bright	39.000	28	12Bet Tau	1.6500	15200.	78	23174	No
21	GOM_NL__2PRFIN20060806_014105_000000322050_00074_23174_0495.N1	06-AUG-2006 01:41:05	Twilight	32.000	176	23Zet Tau	3.0200	22000.	64	23174	No
22	GOM_NL__2PRFIN20060806_014448_000000392050_00074_23174_0496.N1	06-AUG-2006 01:44:48	Dark	38.500	14	58Alp Ori	0.87000	3000.0	77	23174	No
23	GOM_NL__2PRFIN20060806_014740_000000362050_00074_23174_0497.N1	06-AUG-2006 01:47:40	Dark	35.500	30	46Eps Ori	1.6940	30000.	71	23174	No
24	GOM_NL__2PRFIN20060806_014901_000000352050_00074_23174_0498.N1	06-AUG-2006 01:49:01	Dark	34.500	125	44Iot Ori	2.7700	30000.	69	23174	No
25	GOM_NL__2PRFIN20060806_015016_000000432050_00074_23174_0499.N1	06-AUG-2006 01:50:16	Dark	43.000	7	19Bet Ori	0.10000	14000.	86	23174	No
26	GOM_NL__2PRFIN20060806_015222_000000362050_00074_23174_0500.N1	06-AUG-2006 01:52:22	Dark	36.000	101	11Alp Lep	2.5820	7000.0	72	23174	No
27	GOM_NL__2PRFIN20060806_020452_000000322050_00075_23175_0481.N1	06-AUG-2006 02:04:52	Dark	32.000	157	The1Eri	2.9060	9300.0	64	23175	No
28	GOM_NL__2PRFIN20060806_021001_000000382050_00075_23175_0482.N1	06-AUG-2006 02:10:01	Dark	37.500	9	Alp Eri	0.45300	24000.	75	23175	No
29	GOM_NL__2PRFIN20060806_021633_000000342050_00075_23175_0483.N1	06-AUG-2006 02:16:33	Straylight	33.500	148	Alp Tuc	2.8780	4100.0	67	23175	No
30	GOM_NL__2PRFIN20060806_021959_000000382050_00075_23175_0484.N1	06-AUG-2006 02:19:59	Straylight	38.000	31	Alp Gru	1.7340	15200.	76	23175	No
31	GOM_NL__2PRFIN20060806_022305_000000382050_00075_23175_0485.N1	06-AUG-2006 02:23:05	Straylight	38.000	172	Gam Gru	3.0030	13100.	76	23175	No
32	GOM_NL__2PRFIN20060806_023822_000000312050_00075_23175_0486.N1	06-AUG-2006 02:38:22	Bright	31.000	11	53Alp Aql	0.76500	8000.0	62	23175	No
33	GOM_NL__2PRFIN20060806_024633_000000352050_00075_23175_0487.N1	06-AUG-2006 02:46:33	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	23175	No
34	GOM_NL__2PRFIN20060806_024753_000000312050_00075_23175_0488.N1	06-AUG-2006 02:47:53	Bright	31.000	66	37Gam Cyg	2.2080	5900.0	62	23175	No
35	GOM_NL__2PRFIN20060806_024943_000000352050_00075_23175_0489.N1	06-AUG-2006 02:49:43	Bright	35.000	19	50Alp Cyg	1.2460	10500.	70	23175	No
36	GOM_NL__2PRFIN20060806_025509_000000322050_00075_23175_0490.N1	06-AUG-2006 02:55:09	Bright	32.000	89	5Alp Cep	2.4510	8000.0	64	23175	No
37	GOM_NL__2PRFIN20060806_030125_000000302050_00075_23175_0491.N1	06-AUG-2006 03:01:25	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23175	No
38	GOM_NL__2PRFIN20060806_031407_000000352050_00075_23175_0492.N1	06-AUG-2006 03:14:07	Bright	35.000	6	13Alp Aur	0.080000	3400.0	70	23175	No
39	GOM_NL__2PRFIN20060806_031640_000000302050_00075_23175_0493.N1	06-AUG-2006 03:16:40	Bright	30.000	107	37The Aur	2.6490	11000.	60	23175	No
40	GOM_NL__2PRFIN20060806_031932_000000412050_00075_23175_0494.N1	06-AUG-2006 03:19:32	Bright	40.500	28	12Bet Tau	1.6500	15200.	81	23175	No
41	GOM_NL__2PRFIN20060806_032141_000000352050_00075_23175_0495.N1	06-AUG-2006 03:21:41	Twilight	35.000	176	23Zet Tau	3.0200	22000.	70	23175	No
42	GOM_NL__2PRFIN20060806_032524_000000382050_00075_23175_0496.N1	06-AUG-2006 03:25:24	Dark	38.000	14	58Alp Ori	0.87000	3000.0	76	23175	No

220	GOM_NL__2PRFIN20060806_203644_000000402050_00086_23186_0501.N1	06-AUG-2006 20:36:44	Dark	39.500	9	Alp Eri	0.45300	24000.	79	23186	No
221	GOM_NL__2PRFIN20060806_203807_000000312050_00086_23186_0502.N1	06-AUG-2006 20:38:07	Dark	31.000	135	Bet Hyi	2.8200	5800.0	62	23186	No
222	GOM_NL__2PRFIN20060806_204312_000000332050_00086_23186_0503.N1	06-AUG-2006 20:43:12	Straylight	32.500	148	Alp Tuc	2.8780	4100.0	65	23186	No
223	GOM_NL__2PRFIN20060806_204640_000000372050_00086_23186_0504.N1	06-AUG-2006 20:46:40	Straylight	36.500	31	Alp Gru	1.7340	15200.	73	23186	No
224	GOM_NL__2PRFIN20060806_210458_000000312050_00086_23186_0505.N1	06-AUG-2006 21:04:58	Bright	30.500	11	53Alp Aql	0.76500	8000.0	61	23186	No
225	GOM_NL__2PRFIN20060806_210633_000000292050_00086_23186_0506.N1	06-AUG-2006 21:06:33	Bright	29.000	168	17Zet Aql	2.9860	11000.	58	23186	No
226	GOM_NL__2PRFIN20060806_211339_000000312050_00086_23186_0507.N1	06-AUG-2006 21:13:39	Bright	30.500	5	3Alp Lyr	0.033000	11000.	61	23186	No
227	GOM_NL__2PRFIN20060806_211522_000000312050_00086_23186_0508.N1	06-AUG-2006 21:15:22	Bright	30.500	144	18Del Cyg	2.8600	11000.	61	23186	No
228	GOM_NL__2PRFIN20060806_211734_000000292050_00086_23186_0509.N1	06-AUG-2006 21:17:34	Bright	29.000	69	33Gam Dra	2.2310	3800.0	58	23186	No
229	GOM_NL__2PRFIN20060806_212800_000000362050_00086_23186_0510.N1	06-AUG-2006 21:28:00	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23186	No
230	GOM_NL__2PRFIN20060806_214058_000000322050_00086_23186_0511.N1	06-AUG-2006 21:40:58	Bright	31.500	42	34Bet Aur	1.9000	10200.	63	23186	No
231	GOM_NL__2PRFIN20060806_214316_000000292050_00086_23186_0512.N1	06-AUG-2006 21:43:16	Bright	29.000	107	37The Aur	2.6490	11000.	58	23186	No
232	GOM_NL__2PRFIN20060806_215203_000000492050_00086_23186_0513.N1	06-AUG-2006 21:52:03	Dark	49.000	14	58Alp Ori	0.87000	3000.0	98	23186	No
233	GOM_NL__2PRFIN20060806_215456_000000382050_00086_23186_0514.N1	06-AUG-2006 21:54:56	Dark	38.000	30	46Eps Ori	1.6940	30000.	76	23186	No
234	GOM_NL__2PRFIN20060806_215701_000000352050_00086_23186_0515.N1	06-AUG-2006 21:57:01	Dark	35.000	56	53Kap Ori	2.0650	30000.	70	23186	No
235	GOM_NL__2PRFIN20060806_215834_000000322050_00086_23186_0516.N1	06-AUG-2006 21:58:34	Dark	32.000	47	2Bet CMa	1.9760	28000.	64	23186	No
236	GOM_NL__2PRFIN20060806_220034_000000392050_00086_23186_0517.N1	06-AUG-2006 22:00:34	Dark	39.000	139	9Bet Lep	2.8330	5600.0	78	23186	No
237	GOM_NL__2PRFIN20060806_220153_000000332050_00086_23186_0518.N1	06-AUG-2006 22:01:53	Dark	33.000	177	1Zet CMa	3.0220	26000.	66	23186	No
238	GOM_NL__2PRFIN20060806_221720_000000402050_00087_23187_0501.N1	06-AUG-2006 22:17:20	Dark	39.500	9	Alp Eri	0.45300	24000.	79	23187	No
239	GOM_NL__2PRFIN20060806_221843_000000322050_00087_23187_0502.N1	06-AUG-2006 22:18:43	Dark	32.000	135	Bet Hyi	2.8200	5800.0	64	23187	No
240	GOM_NL__2PRFIN20060806_222349_000000332050_00087_23187_0503.N1	06-AUG-2006 22:23:49	Straylight	32.500	148	Alp Tuc	2.8780	4100.0	65	23187	No
241	GOM_NL__2PRFIN20060806_222716_000000362050_00087_23187_0504.N1	06-AUG-2006 22:27:16	Straylight	35.500	31	Alp Gru	1.7340	15200.	71	23187	No
242	GOM_NL__2PRFIN20060806_224534_000000312050_00087_23187_0505.N1	06-AUG-2006 22:45:34	Bright	30.500	11	53Alp Aql	0.76500	8000.0	61	23187	No
243	GOM_NL__2PRFIN20060806_224709_000000292050_00087_23187_0506.N1	06-AUG-2006 22:47:09	Bright	28.500	168	17Zet Aql	2.9860	11000.	57	23187	No
244	GOM_NL__2PRFIN20060806_225415_000000282050_00087_23187_0507.N1	06-AUG-2006 22:54:15	Bright	28.000	5	3Alp Lyr	0.033000	11000.	56	23187	No
245	GOM_NL__2PRFIN20060806_225558_000000302050_00087_23187_0508.N1	06-AUG-2006 22:55:58	Bright	30.000	144	18Del Cyg	2.8600	11000.	60	23187	No
246	GOM_NL__2PRFIN20060806_225810_000000292050_00087_23187_0509.N1	06-AUG-2006 22:58:10	Bright	29.000	69	33Gam Dra	2.2310	3800.0	58	23187	No
247	GOM_NL__2PRFIN20060806_230836_000000282050_00087_23187_0510.N1	06-AUG-2006 23:08:36	Bright	27.500	49	1Alp UMi	1.9900	6300.0	55	23187	No
248	GOM_NL__2PRFIN20060806_232134_000000302050_00087_23187_0511.N1	06-AUG-2006 23:21:34	Bright	29.500	42	34Bet Aur	1.9000	10200.	59	23187	No
249	GOM_NL__2PRFIN20060806_232352_000000402050_00087_23187_0512.N1	06-AUG-2006 23:23:52	Bright	40.000	107	37The Aur	2.6490	11000.	80	23187	No
250	GOM_NL__2PRFIN20060806_233239_000000492050_00087_23187_0513.N1	06-AUG-2006 23:32:39	Dark	49.000	14	58Alp Ori	0.87000	3000.0	98	23187	No
251	GOM_NL__2PRFIN20060806_233532_000000352050_00087_23187_0514.N1	06-AUG-2006 23:35:32	Dark	35.000	30	46Eps Ori	1.6940	30000.	70	23187	No
252	GOM_NL__2PRFIN20060806_233737_000000352050_00087_23187_0515.N1	06-AUG-2006 23:37:37	Dark	34.500	56	53Kap Ori	2.0650	30000.	69	23187	No
253	GOM_NL__2PRFIN20060806_233910_000000352050_00087_23187_0516.N1	06-AUG-2006 23:39:10	Dark	34.500	47	2Bet CMa	1.9760	28000.	69	23187	No
254	GOM_NL__2PRFIN20060806_234110_000000392050_00087_23187_0517.N1	06-AUG-2006 23:41:10	Dark	39.000	139	9Bet Lep	2.8330	5600.0	78	23187	No
255	GOM_NL__2PRFIN20060806_234230_000000332050_00087_23187_0518.N1	06-AUG-2006 23:42:30	Dark	33.000	177	1Zet CMa	3.0220	26000.	66	23187	No
256	GOM_NL__2PRFIN20060806_235757_000000382050_00088_23188_0501.N1	06-AUG-2006 23:57:57	Dark	38.000	9	Alp Eri	0.45300	24000.	76	23188	No
257	GOM_NL__2PRFIN20060806_235919_000000312050_00088_23188_0502.N1	06-AUG-2006 23:59:19	Dark	30.500	135	Bet Hyi	2.8200	5800.0	61	23188	No

3. Quality information per product

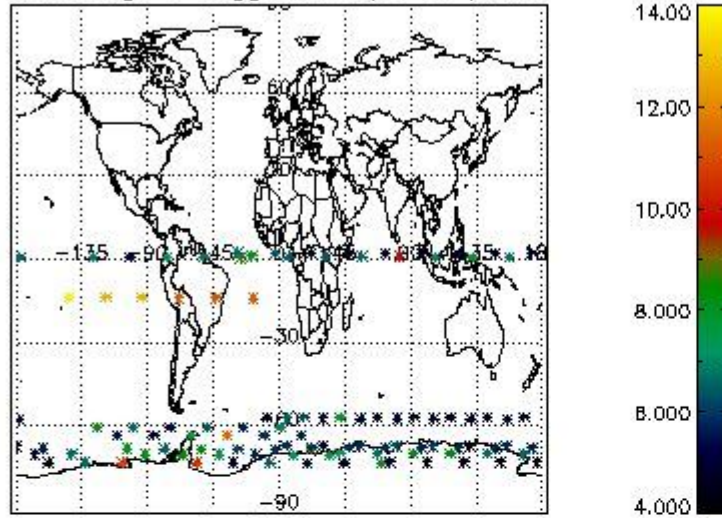
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

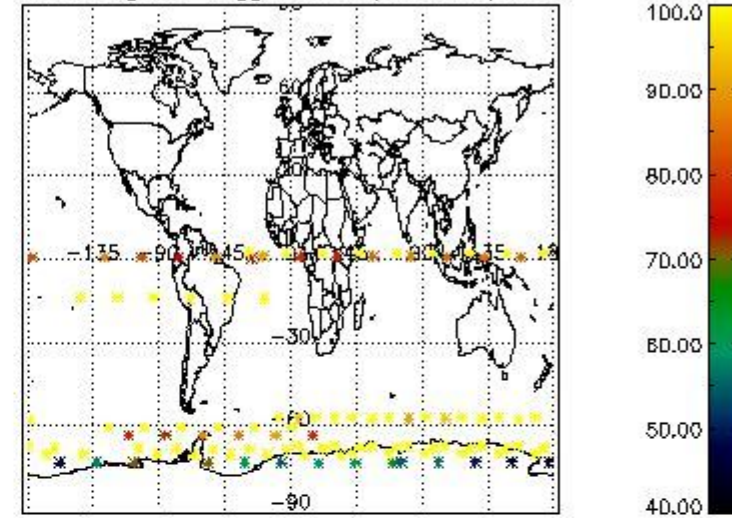


3.2 Plot quality information per product (world map)

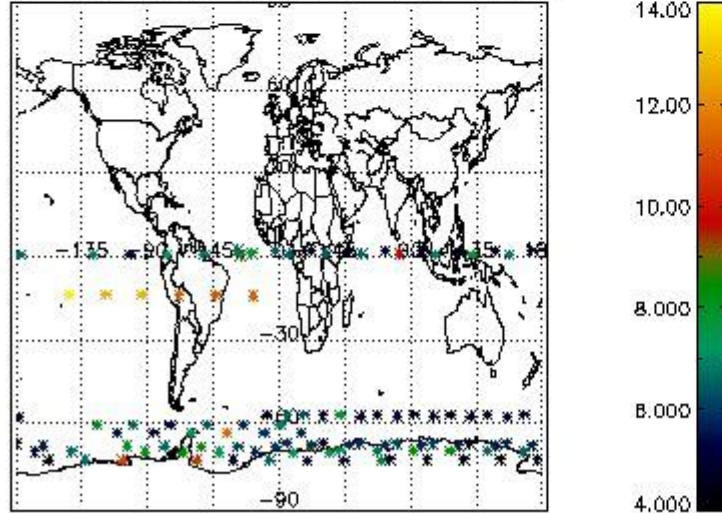
Percentage of flagged data per O3 profile



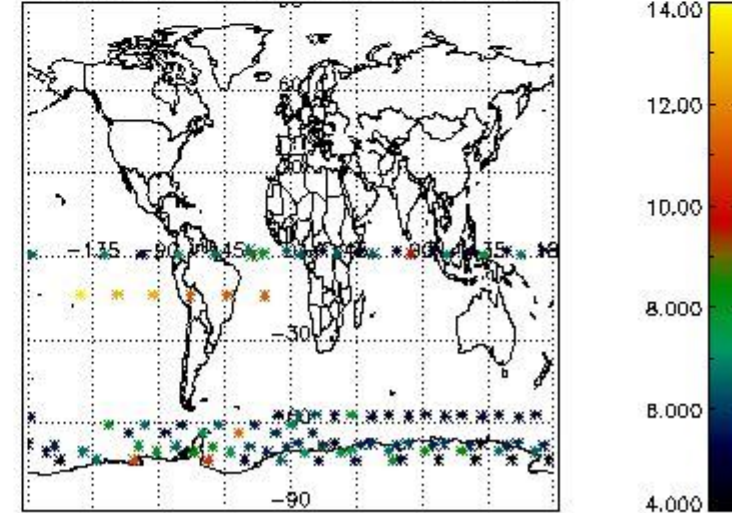
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

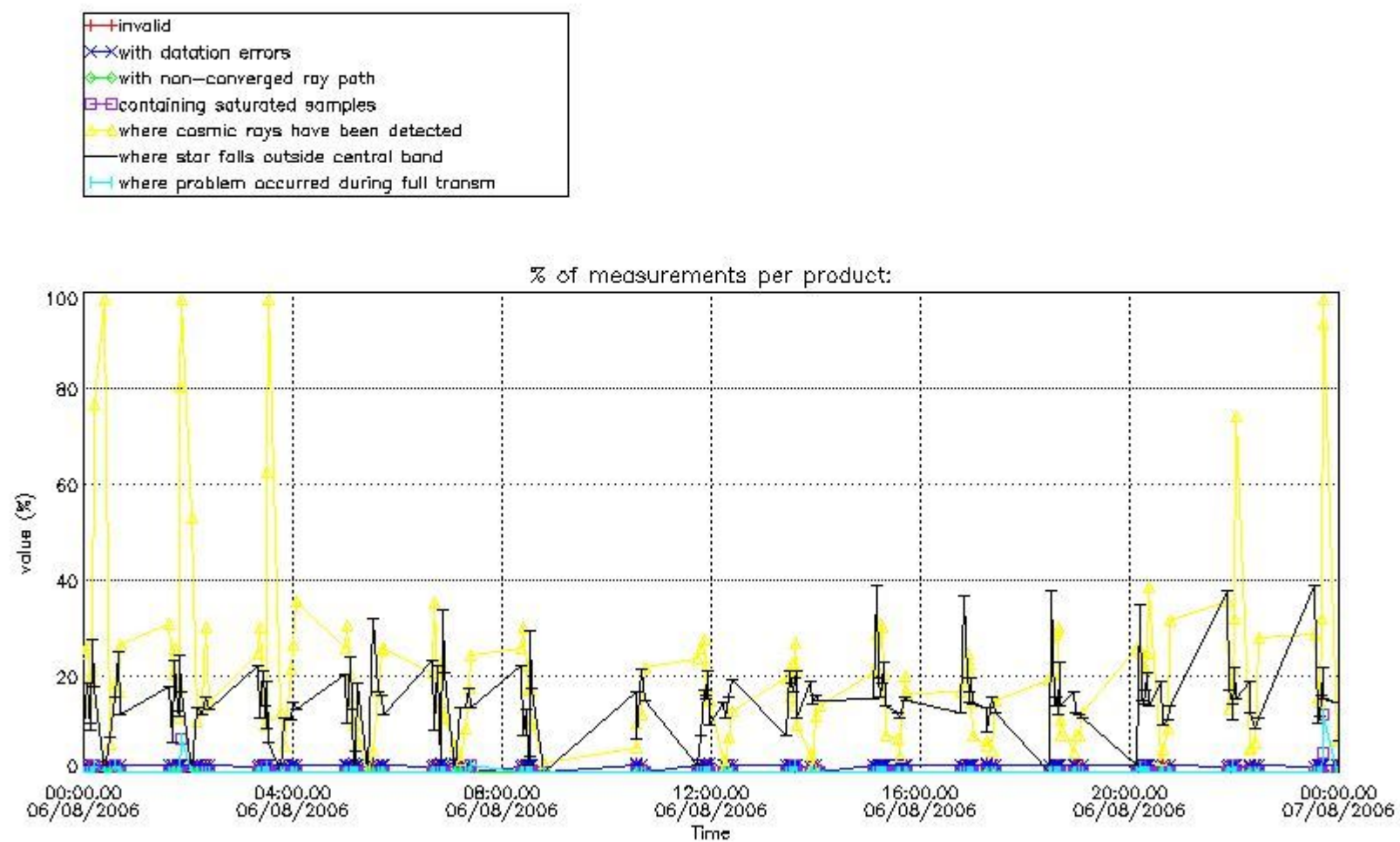


4. Level 1 quality information per product

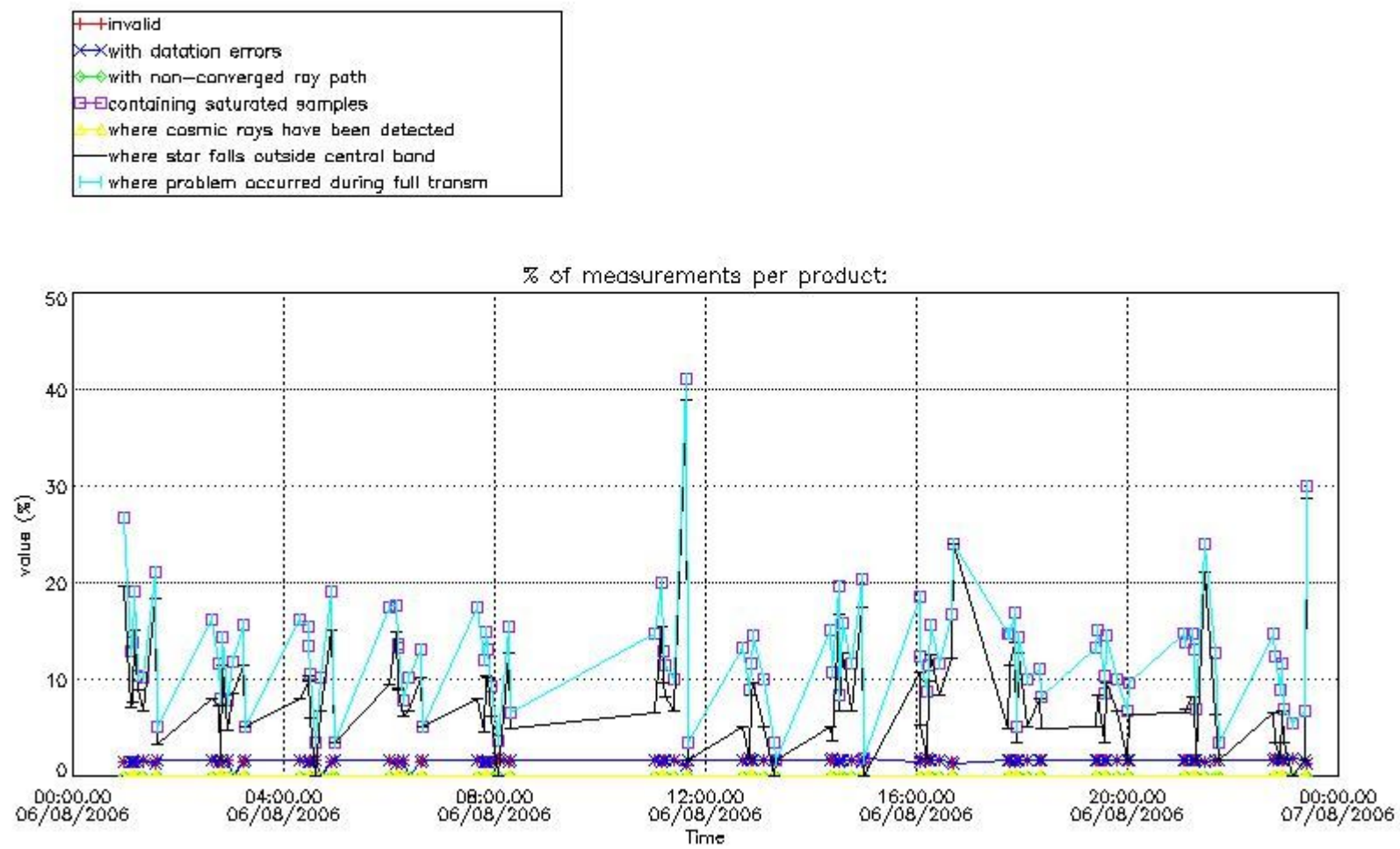
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



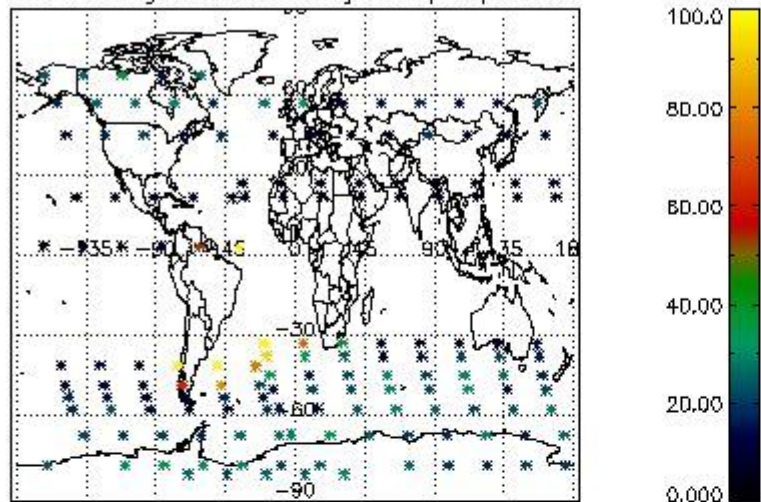
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



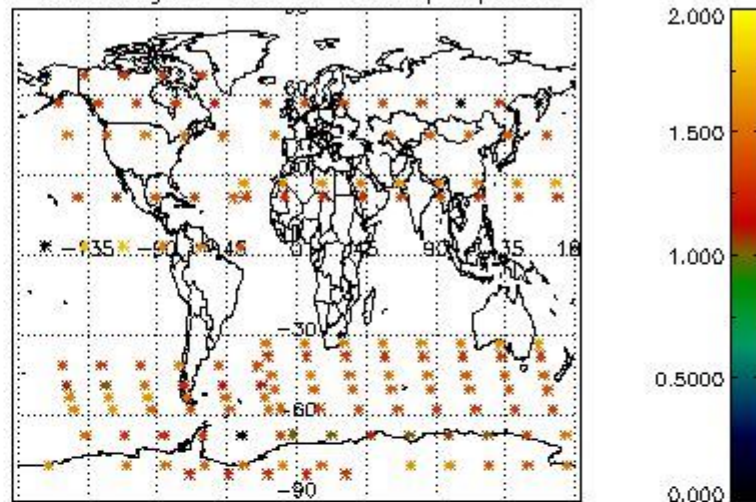
4.2 Plot quality information per product coming from level 1b processing (world map)

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

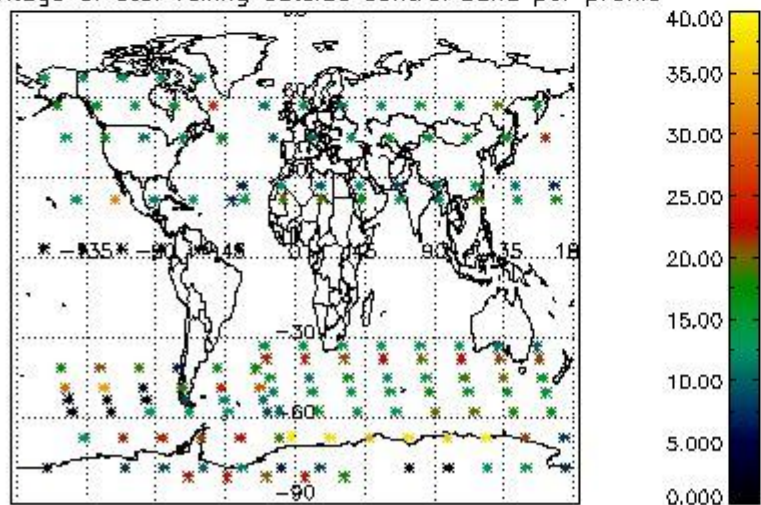
Percentage of cosmic ray hits per profile



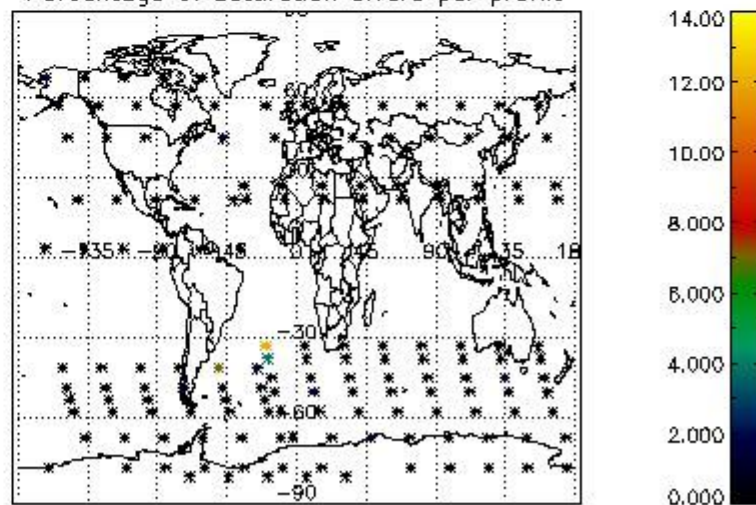
Percentage of datation errors per profile



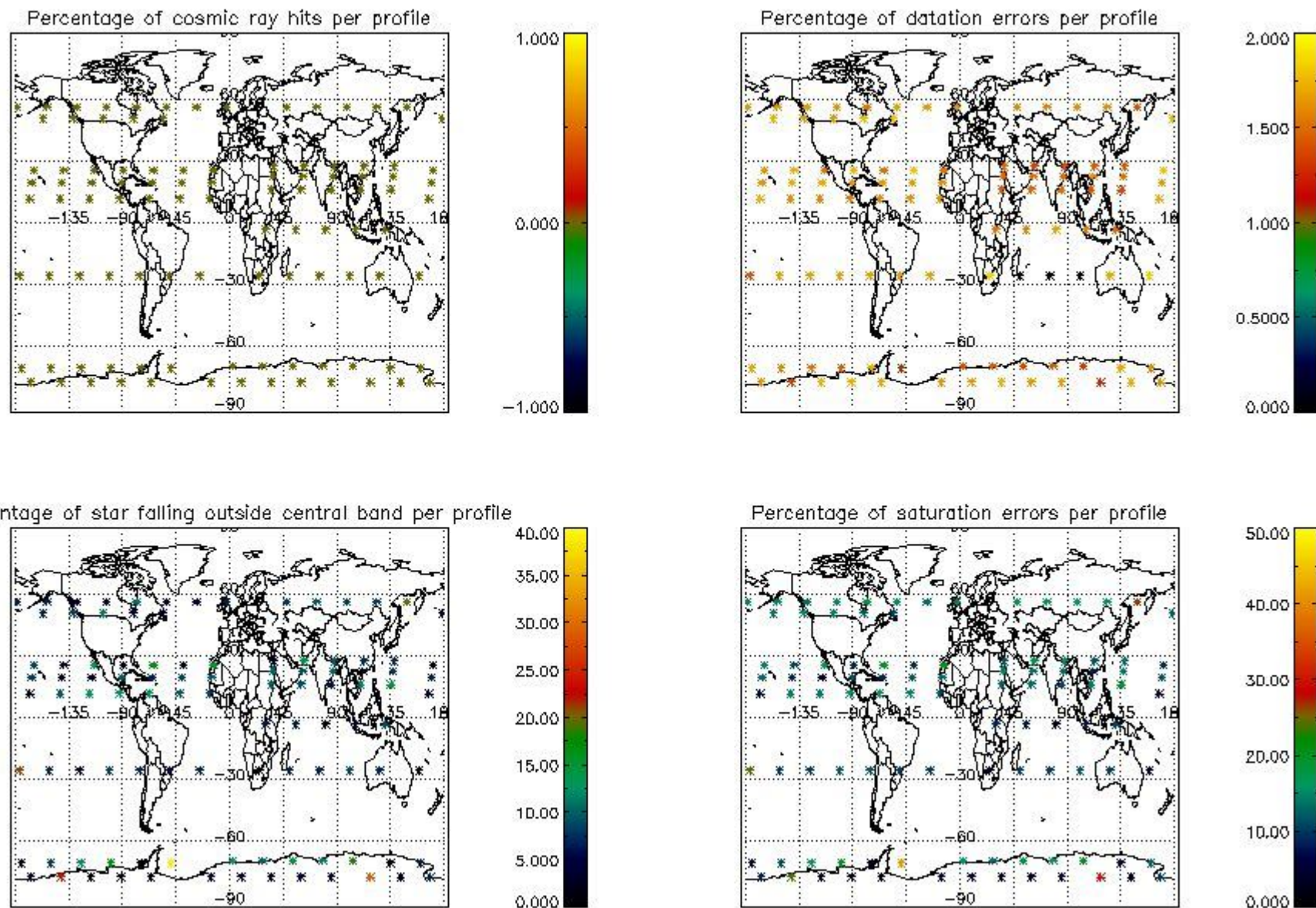
Percentage of star falling outside central band per profile



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

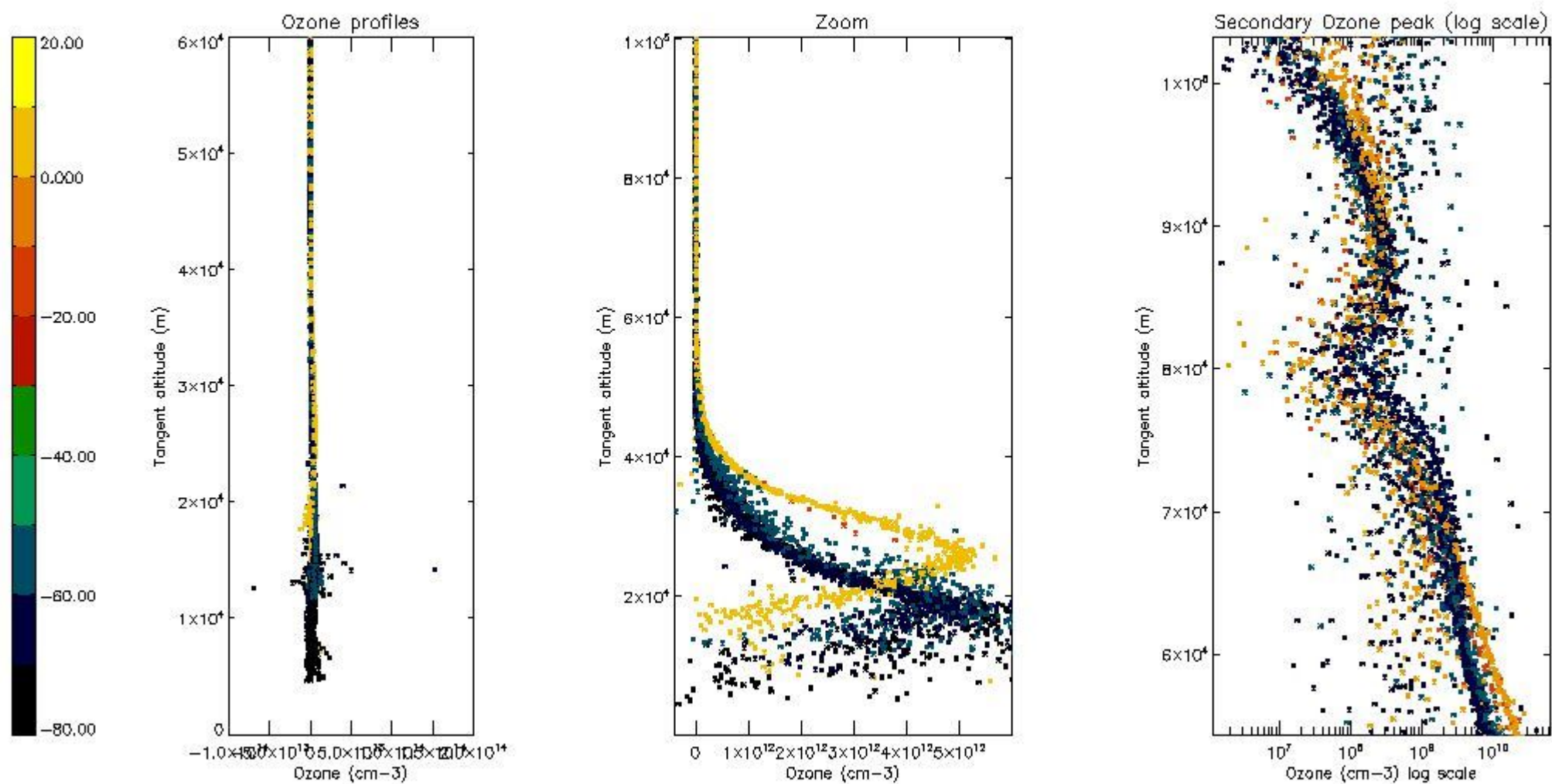
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	44
STD < 20	27

STD < 10	22
STD < 5	15

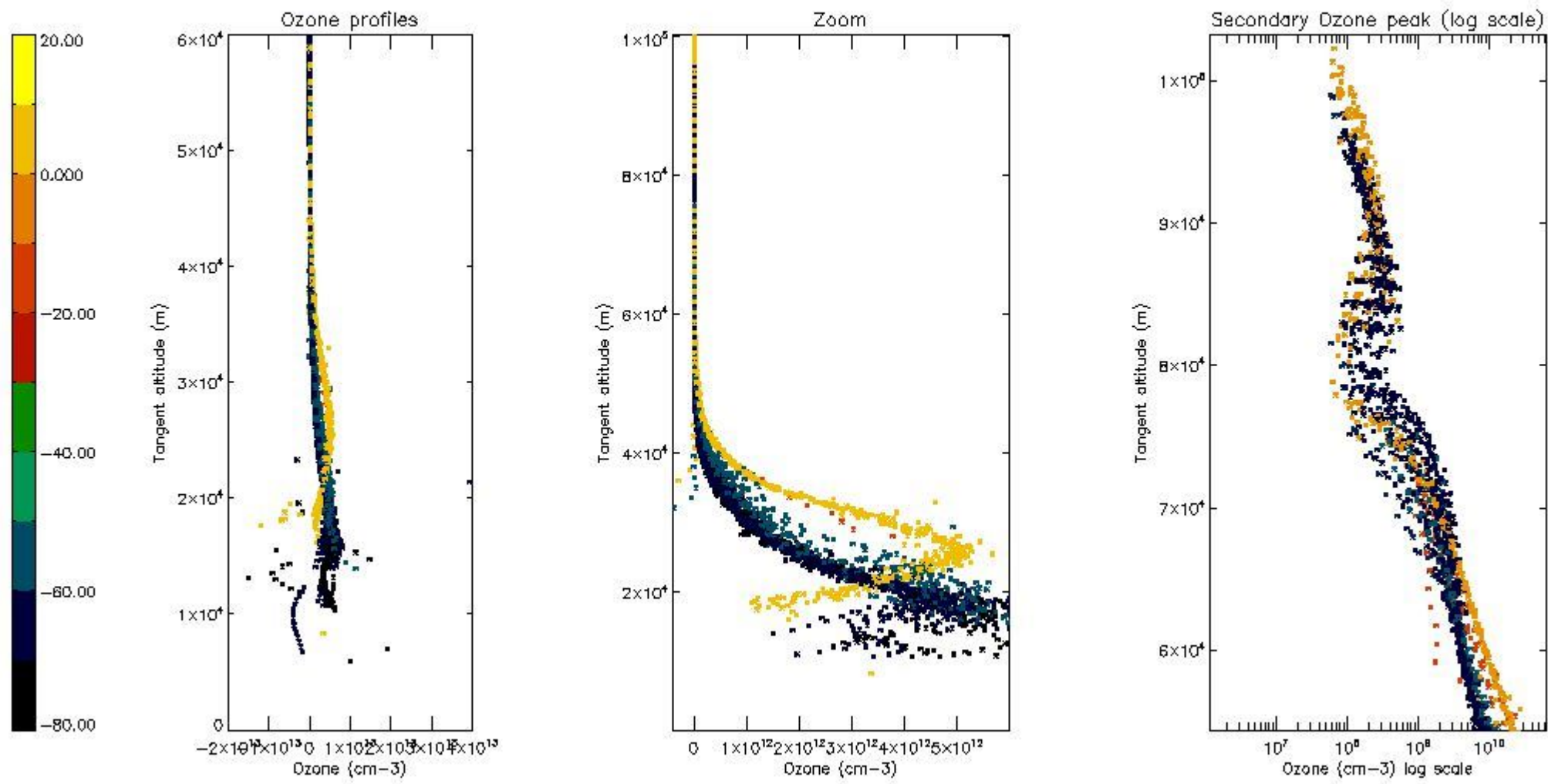
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



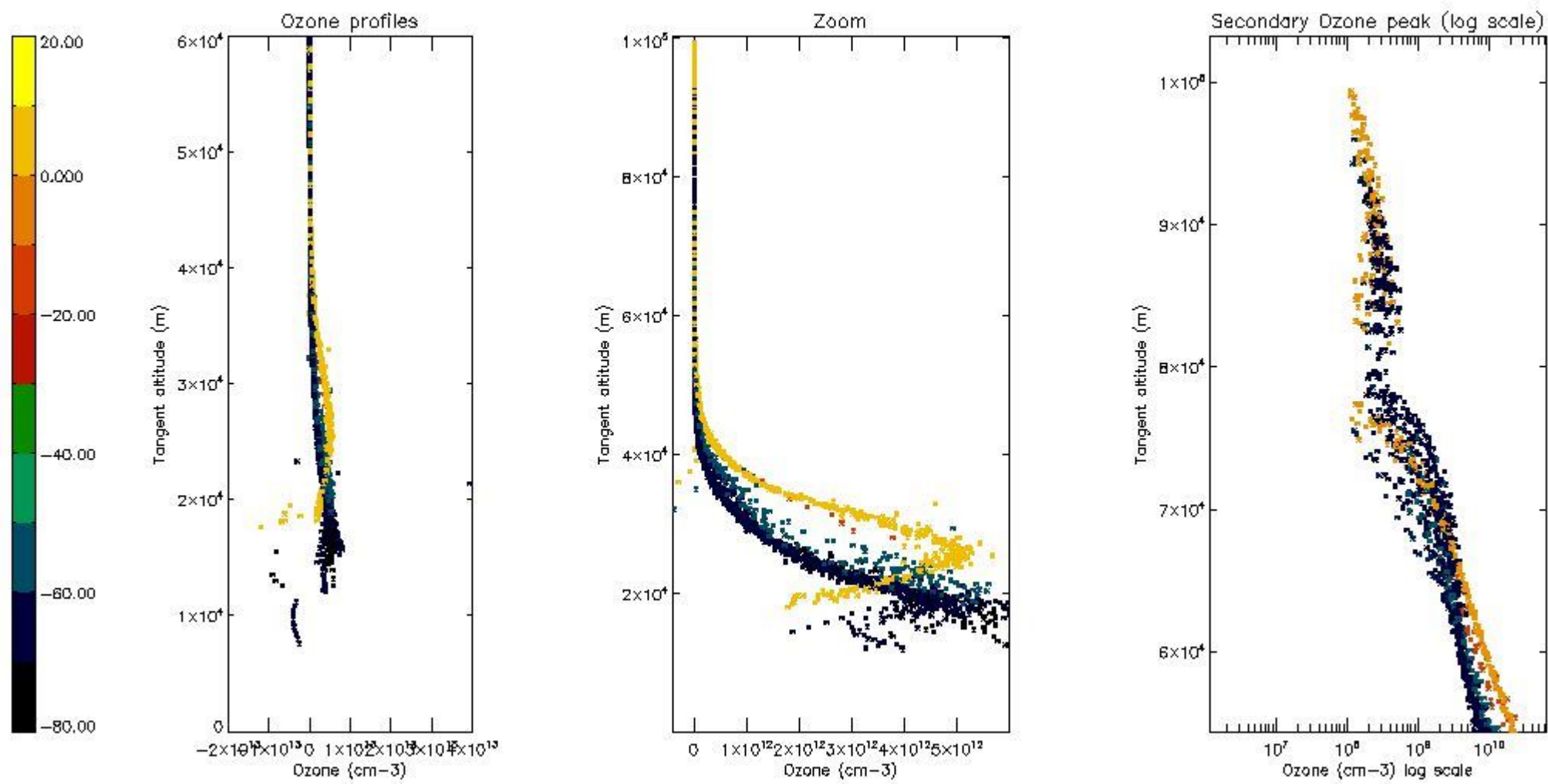
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



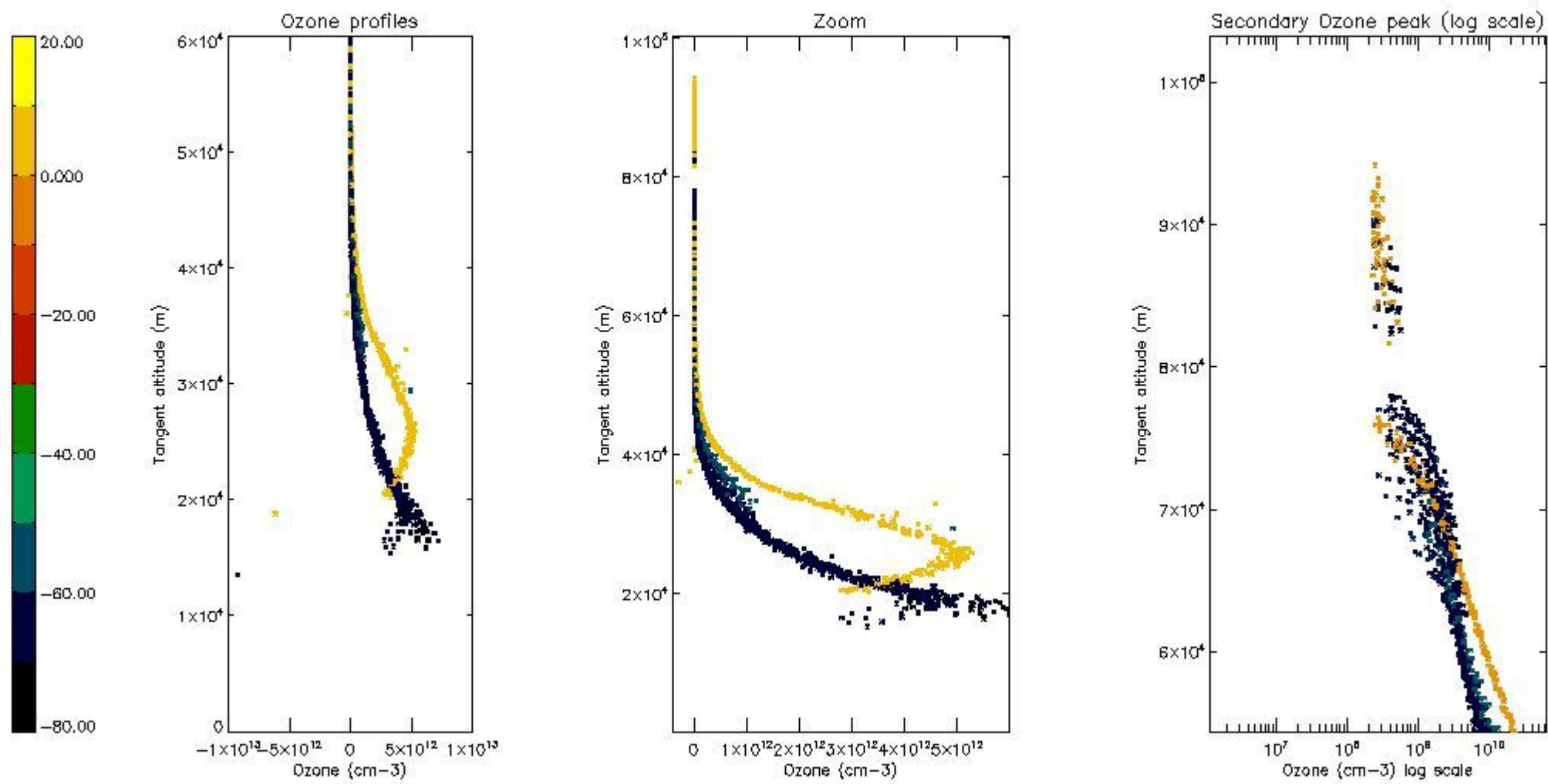
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



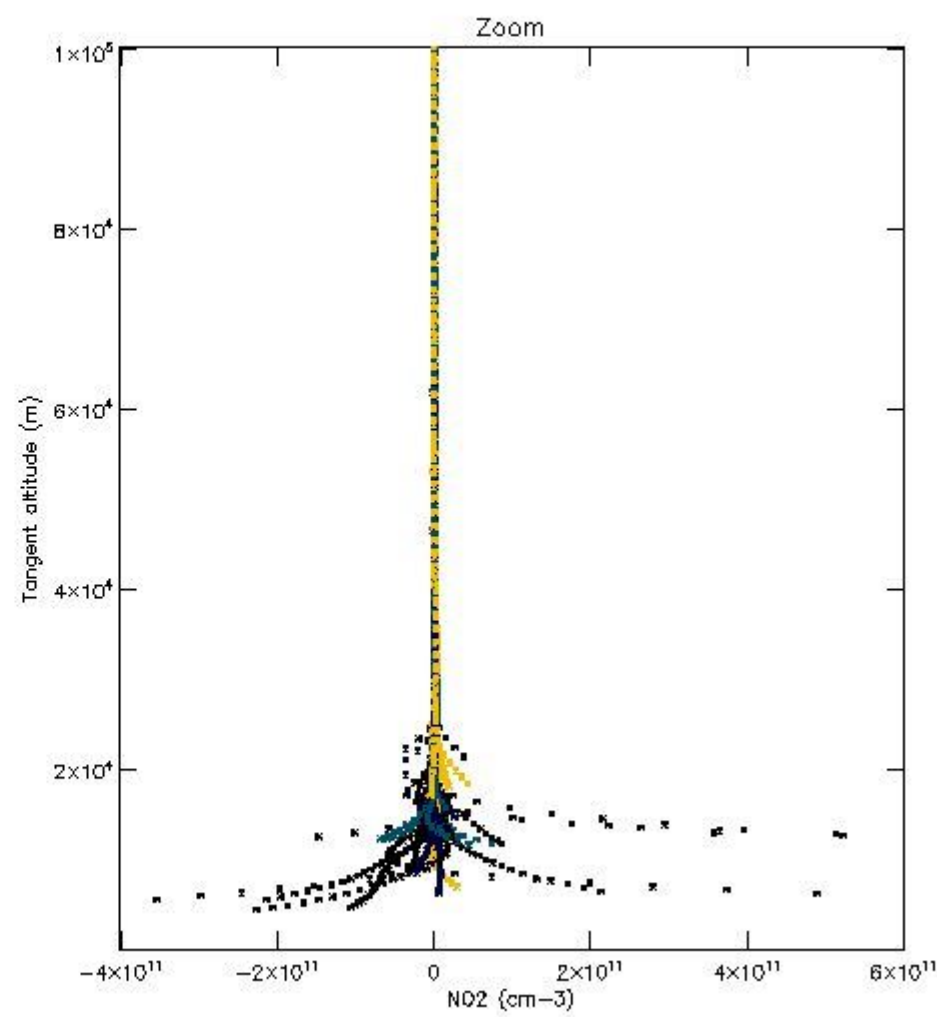
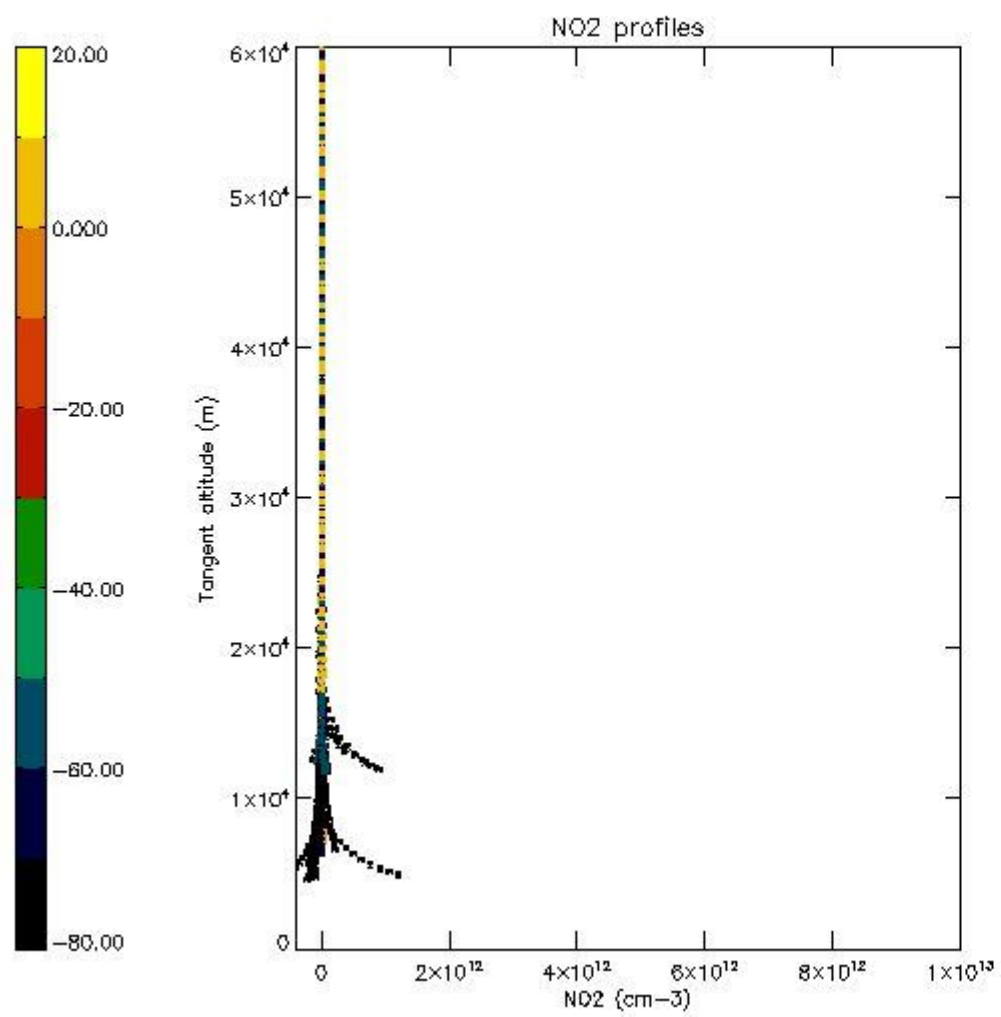
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



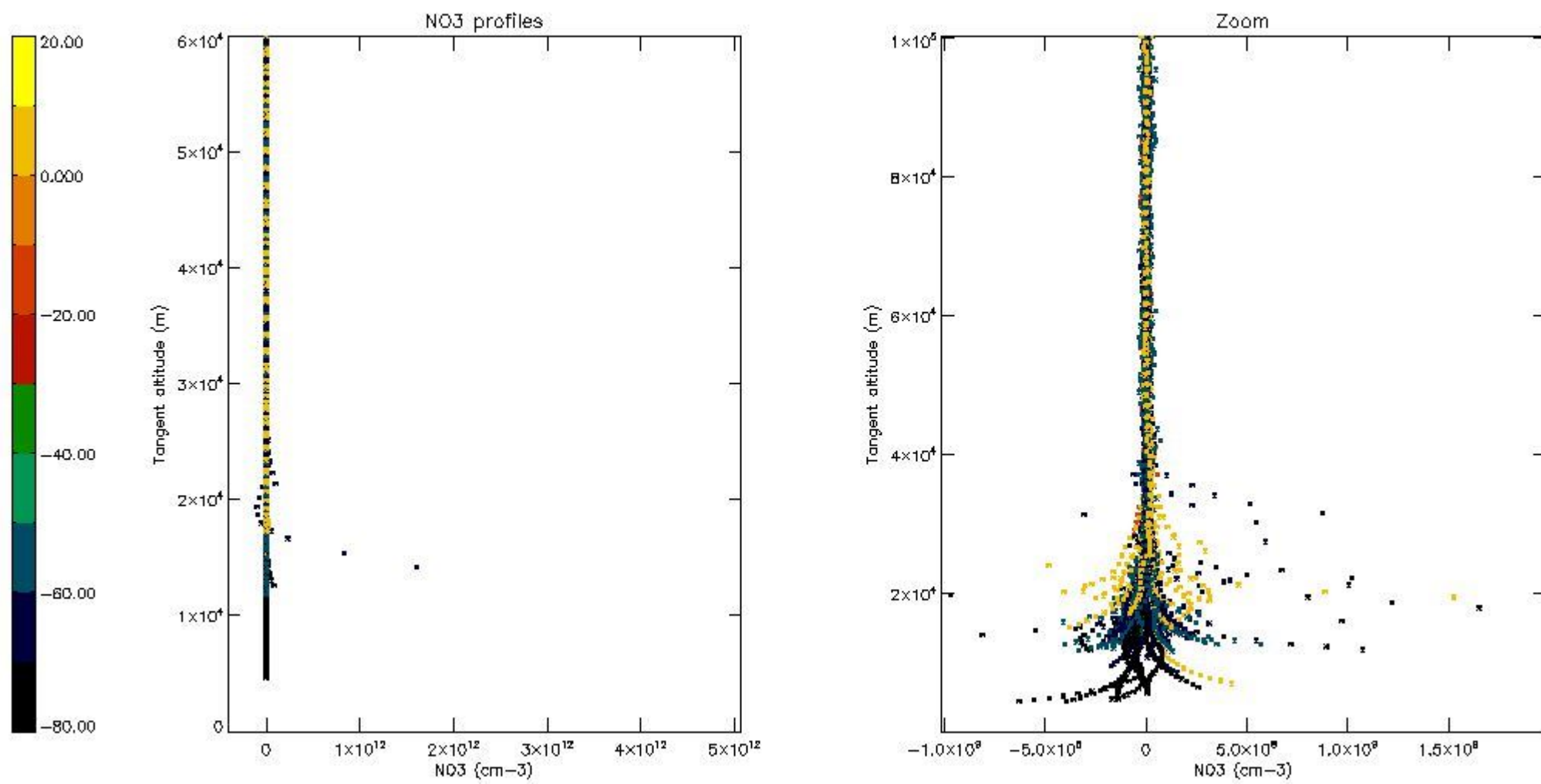
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



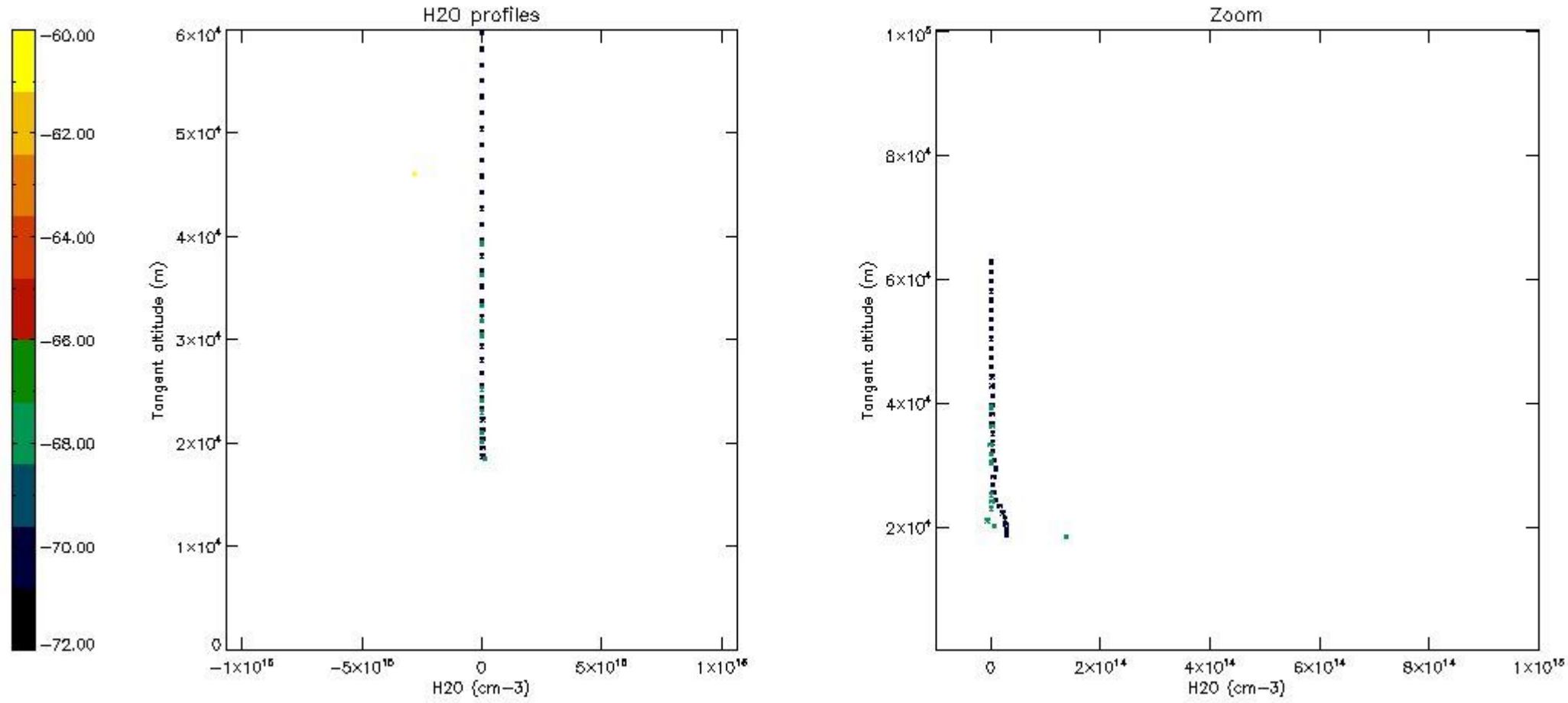
5.7 Plot NO3 profiles for all STD (dark without errors)

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	06-AUG-2006 00:00:29
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-AUG-2006 00:00:29
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-AUG-2006 00:00:29

GOMOS Level 2 Daily Report

SUMMARY

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

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

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

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

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

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

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

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[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

[5.1 Ozone statistics based on quality of products](#)

[5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

[5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

[5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

[5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

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

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

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

Item	Value
Time of report generation	24APR2013 03:03:48
Data source version	GOMOS/6.01
Start time of products	06-08-2006 (06AUG2006 00:00:00)
Stop time of products	07-08-2006 (07AUG2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	257
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

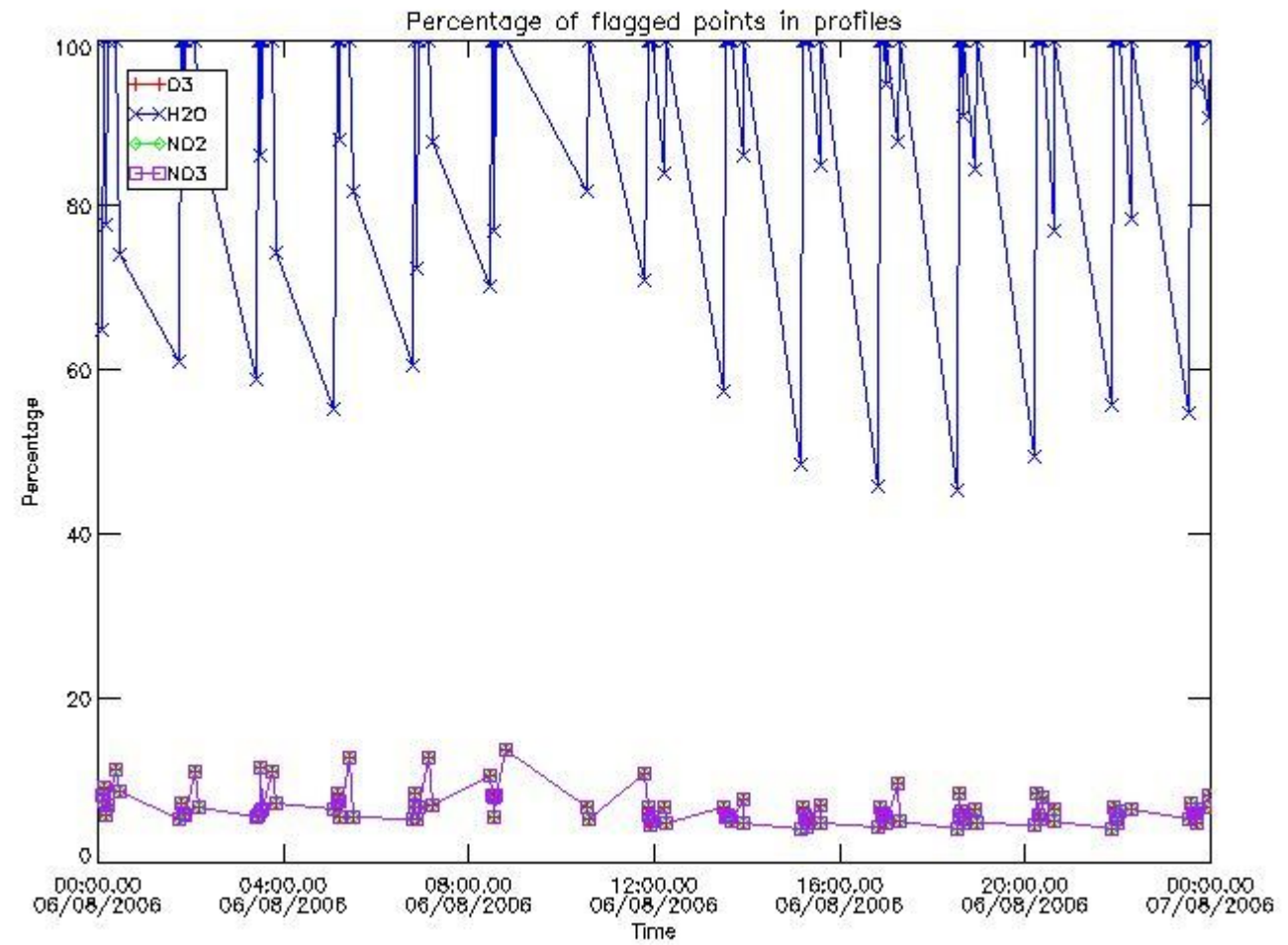
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060806_000029_000000352050_00073_23173_0495.N1	06-AUG-2006 00:00:29	Twilight	34.500	176	23Zet Tau	3.0200	22000.	69	23173	No
2	GOM_NL__2PRFIN20060806_000411_000000382050_00073_23173_0496.N1	06-AUG-2006 00:04:11	Dark	37.500	14	58Alp Ori	0.87000	3000.0	75	23173	No
3	GOM_NL__2PRFIN20060806_000703_000000342050_00073_23173_0497.N1	06-AUG-2006 00:07:03	Dark	34.000	30	46Eps Ori	1.6940	30000.	68	23173	No
4	GOM_NL__2PRFIN20060806_000824_000000342050_00073_23173_0498.N1	06-AUG-2006 00:08:24	Dark	34.000	125	44Iot Ori	2.7700	30000.	68	23173	No
5	GOM_NL__2PRFIN20060806_000940_000000452050_00073_23173_0499.N1	06-AUG-2006 00:09:40	Dark	45.000	7	19Bet Ori	0.10000	14000.	90	23173	No
6	GOM_NL__2PRFIN20060806_001145_000000372050_00073_23173_0500.N1	06-AUG-2006 00:11:45	Dark	36.500	101	11Alp Lep	2.5820	7000.0	73	23173	No
7	GOM_NL__2PRFIN20060806_002415_000000362050_00074_23174_0481.N1	06-AUG-2006 00:24:15	Dark	36.000	157	The1Eri	2.9060	9300.0	72	23174	No
8	GOM_NL__2PRFIN20060806_002924_000000352050_00074_23174_0482.N1	06-AUG-2006 00:29:24	Dark	35.000	9	Alp Eri	0.45300	24000.	70	23174	No
9	GOM_NL__2PRFIN20060806_003556_000000352050_00074_23174_0483.N1	06-AUG-2006 00:35:56	Straylight	35.000	148	Alp Tuc	2.8780	4100.0	70	23174	No
10	GOM_NL__2PRFIN20060806_003923_000000422050_00074_23174_0484.N1	06-AUG-2006 00:39:23	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	23174	No
11	GOM_NL__2PRFIN20060806_004228_000000382050_00074_23174_0485.N1	06-AUG-2006 00:42:28	Straylight	37.500	172	Gam Gru	3.0030	13100.	75	23174	No
12	GOM_NL__2PRFIN20060806_005746_000000362050_00074_23174_0486.N1	06-AUG-2006 00:57:46	Bright	35.500	11	53Alp Aql	0.76500	8000.0	71	23174	No
13	GOM_NL__2PRFIN20060806_010557_000000352050_00074_23174_0487.N1	06-AUG-2006 01:05:57	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	23174	No
14	GOM_NL__2PRFIN20060806_010717_000000332050_00074_23174_0488.N1	06-AUG-2006 01:07:17	Bright	32.500	66	37Gam Cyg	2.2080	5900.0	65	23174	No
15	GOM_NL__2PRFIN20060806_010907_000000372050_00074_23174_0489.N1	06-AUG-2006 01:09:07	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	23174	No
16	GOM_NL__2PRFIN20060806_011433_000000342050_00074_23174_0490.N1	06-AUG-2006 01:14:33	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	23174	No
17	GOM_NL__2PRFIN20060806_012049_000000302050_00074_23174_0491.N1	06-AUG-2006 01:20:49	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23174	No
18	GOM_NL__2PRFIN20060806_013331_000000382050_00074_23174_0492.N1	06-AUG-2006 01:33:31	Bright	38.000	6	13Alp Aur	0.080000	3400.0	76	23174	No
19	GOM_NL__2PRFIN20060806_013603_000000302050_00074_23174_0493.N1	06-AUG-2006 01:36:03	Bright	30.000	107	37The Aur	2.6490	11000.	60	23174	No
20	GOM_NL__2PRFIN20060806_013856_000000392050_00074_23174_0494.N1	06-AUG-2006 01:38:56	Bright	39.000	28	12Bet Tau	1.6500	15200.	78	23174	No
21	GOM_NL__2PRFIN20060806_014105_000000322050_00074_23174_0495.N1	06-AUG-2006 01:41:05	Twilight	32.000	176	23Zet Tau	3.0200	22000.	64	23174	No
22	GOM_NL__2PRFIN20060806_014448_000000392050_00074_23174_0496.N1	06-AUG-2006 01:44:48	Dark	38.500	14	58Alp Ori	0.87000	3000.0	77	23174	No
23	GOM_NL__2PRFIN20060806_014740_000000362050_00074_23174_0497.N1	06-AUG-2006 01:47:40	Dark	35.500	30	46Eps Ori	1.6940	30000.	71	23174	No
24	GOM_NL__2PRFIN20060806_014901_000000352050_00074_23174_0498.N1	06-AUG-2006 01:49:01	Dark	34.500	125	44Iot Ori	2.7700	30000.	69	23174	No
25	GOM_NL__2PRFIN20060806_015016_000000432050_00074_23174_0499.N1	06-AUG-2006 01:50:16	Dark	43.000	7	19Bet Ori	0.10000	14000.	86	23174	No
26	GOM_NL__2PRFIN20060806_015222_000000362050_00074_23174_0500.N1	06-AUG-2006 01:52:22	Dark	36.000	101	11Alp Lep	2.5820	7000.0	72	23174	No
27	GOM_NL__2PRFIN20060806_020452_000000322050_00075_23175_0481.N1	06-AUG-2006 02:04:52	Dark	32.000	157	The1Eri	2.9060	9300.0	64	23175	No
28	GOM_NL__2PRFIN20060806_021001_000000382050_00075_23175_0482.N1	06-AUG-2006 02:10:01	Dark	37.500	9	Alp Eri	0.45300	24000.	75	23175	No
29	GOM_NL__2PRFIN20060806_021633_000000342050_00075_23175_0483.N1	06-AUG-2006 02:16:33	Straylight	33.500	148	Alp Tuc	2.8780	4100.0	67	23175	No
30	GOM_NL__2PRFIN20060806_021959_000000382050_00075_23175_0484.N1	06-AUG-2006 02:19:59	Straylight	38.000	31	Alp Gru	1.7340	15200.	76	23175	No
31	GOM_NL__2PRFIN20060806_022305_000000382050_00075_23175_0485.N1	06-AUG-2006 02:23:05	Straylight	38.000	172	Gam Gru	3.0030	13100.	76	23175	No
32	GOM_NL__2PRFIN20060806_023822_000000312050_00075_23175_0486.N1	06-AUG-2006 02:38:22	Bright	31.000	11	53Alp Aql	0.76500	8000.0	62	23175	No
33	GOM_NL__2PRFIN20060806_024633_000000352050_00075_23175_0487.N1	06-AUG-2006 02:46:33	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	23175	No
34	GOM_NL__2PRFIN20060806_024753_000000312050_00075_23175_0488.N1	06-AUG-2006 02:47:53	Bright	31.000	66	37Gam Cyg	2.2080	5900.0	62	23175	No
35	GOM_NL__2PRFIN20060806_024943_000000352050_00075_23175_0489.N1	06-AUG-2006 02:49:43	Bright	35.000	19	50Alp Cyg	1.2460	10500.	70	23175	No
36	GOM_NL__2PRFIN20060806_025509_000000322050_00075_23175_0490.N1	06-AUG-2006 02:55:09	Bright	32.000	89	5Alp Cep	2.4510	8000.0	64	23175	No
37	GOM_NL__2PRFIN20060806_030125_000000302050_00075_23175_0491.N1	06-AUG-2006 03:01:25	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23175	No
38	GOM_NL__2PRFIN20060806_031407_000000352050_00075_23175_0492.N1	06-AUG-2006 03:14:07	Bright	35.000	6	13Alp Aur	0.080000	3400.0	70	23175	No
39	GOM_NL__2PRFIN20060806_031640_000000302050_00075_23175_0493.N1	06-AUG-2006 03:16:40	Bright	30.000	107	37The Aur	2.6490	11000.	60	23175	No
40	GOM_NL__2PRFIN20060806_031932_000000412050_00075_23175_0494.N1	06-AUG-2006 03:19:32	Bright	40.500	28	12Bet Tau	1.6500	15200.	81	23175	No
41	GOM_NL__2PRFIN20060806_032141_000000352050_00075_23175_0495.N1	06-AUG-2006 03:21:41	Twilight	35.000	176	23Zet Tau	3.0200	22000.	70	23175	No
42	GOM_NL__2PRFIN20060806_032524_000000382050_00075_23175_0496.N1	06-AUG-2006 03:25:24	Dark	38.000	14	58Alp Ori	0.87000	3000.0	76	23175	No

220	GOM_NL__2PRFIN20060806_203644_000000402050_00086_23186_0501.N1	06-AUG-2006 20:36:44	Dark	39.500	9	Alp Eri	0.45300	24000.	79	23186	No
221	GOM_NL__2PRFIN20060806_203807_000000312050_00086_23186_0502.N1	06-AUG-2006 20:38:07	Dark	31.000	135	Bet Hyi	2.8200	5800.0	62	23186	No
222	GOM_NL__2PRFIN20060806_204312_000000332050_00086_23186_0503.N1	06-AUG-2006 20:43:12	Straylight	32.500	148	Alp Tuc	2.8780	4100.0	65	23186	No
223	GOM_NL__2PRFIN20060806_204640_000000372050_00086_23186_0504.N1	06-AUG-2006 20:46:40	Straylight	36.500	31	Alp Gru	1.7340	15200.	73	23186	No
224	GOM_NL__2PRFIN20060806_210458_000000312050_00086_23186_0505.N1	06-AUG-2006 21:04:58	Bright	30.500	11	53Alp Aql	0.76500	8000.0	61	23186	No
225	GOM_NL__2PRFIN20060806_210633_000000292050_00086_23186_0506.N1	06-AUG-2006 21:06:33	Bright	29.000	168	17Zet Aql	2.9860	11000.	58	23186	No
226	GOM_NL__2PRFIN20060806_211339_000000312050_00086_23186_0507.N1	06-AUG-2006 21:13:39	Bright	30.500	5	3Alp Lyr	0.033000	11000.	61	23186	No
227	GOM_NL__2PRFIN20060806_211522_000000312050_00086_23186_0508.N1	06-AUG-2006 21:15:22	Bright	30.500	144	18Del Cyg	2.8600	11000.	61	23186	No
228	GOM_NL__2PRFIN20060806_211734_000000292050_00086_23186_0509.N1	06-AUG-2006 21:17:34	Bright	29.000	69	33Gam Dra	2.2310	3800.0	58	23186	No
229	GOM_NL__2PRFIN20060806_212800_000000362050_00086_23186_0510.N1	06-AUG-2006 21:28:00	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23186	No
230	GOM_NL__2PRFIN20060806_214058_000000322050_00086_23186_0511.N1	06-AUG-2006 21:40:58	Bright	31.500	42	34Bet Aur	1.9000	10200.	63	23186	No
231	GOM_NL__2PRFIN20060806_214316_000000292050_00086_23186_0512.N1	06-AUG-2006 21:43:16	Bright	29.000	107	37The Aur	2.6490	11000.	58	23186	No
232	GOM_NL__2PRFIN20060806_215203_000000492050_00086_23186_0513.N1	06-AUG-2006 21:52:03	Dark	49.000	14	58Alp Ori	0.87000	3000.0	98	23186	No
233	GOM_NL__2PRFIN20060806_215456_000000382050_00086_23186_0514.N1	06-AUG-2006 21:54:56	Dark	38.000	30	46Eps Ori	1.6940	30000.	76	23186	No
234	GOM_NL__2PRFIN20060806_215701_000000352050_00086_23186_0515.N1	06-AUG-2006 21:57:01	Dark	35.000	56	53Kap Ori	2.0650	30000.	70	23186	No
235	GOM_NL__2PRFIN20060806_215834_000000322050_00086_23186_0516.N1	06-AUG-2006 21:58:34	Dark	32.000	47	2Bet CMa	1.9760	28000.	64	23186	No
236	GOM_NL__2PRFIN20060806_220034_000000392050_00086_23186_0517.N1	06-AUG-2006 22:00:34	Dark	39.000	139	9Bet Lep	2.8330	5600.0	78	23186	No
237	GOM_NL__2PRFIN20060806_220153_000000332050_00086_23186_0518.N1	06-AUG-2006 22:01:53	Dark	33.000	177	1Zet CMa	3.0220	26000.	66	23186	No
238	GOM_NL__2PRFIN20060806_221720_000000402050_00087_23187_0501.N1	06-AUG-2006 22:17:20	Dark	39.500	9	Alp Eri	0.45300	24000.	79	23187	No
239	GOM_NL__2PRFIN20060806_221843_000000322050_00087_23187_0502.N1	06-AUG-2006 22:18:43	Dark	32.000	135	Bet Hyi	2.8200	5800.0	64	23187	No
240	GOM_NL__2PRFIN20060806_222349_000000332050_00087_23187_0503.N1	06-AUG-2006 22:23:49	Straylight	32.500	148	Alp Tuc	2.8780	4100.0	65	23187	No
241	GOM_NL__2PRFIN20060806_222716_000000362050_00087_23187_0504.N1	06-AUG-2006 22:27:16	Straylight	35.500	31	Alp Gru	1.7340	15200.	71	23187	No
242	GOM_NL__2PRFIN20060806_224534_000000312050_00087_23187_0505.N1	06-AUG-2006 22:45:34	Bright	30.500	11	53Alp Aql	0.76500	8000.0	61	23187	No
243	GOM_NL__2PRFIN20060806_224709_000000292050_00087_23187_0506.N1	06-AUG-2006 22:47:09	Bright	28.500	168	17Zet Aql	2.9860	11000.	57	23187	No
244	GOM_NL__2PRFIN20060806_225415_000000282050_00087_23187_0507.N1	06-AUG-2006 22:54:15	Bright	28.000	5	3Alp Lyr	0.033000	11000.	56	23187	No
245	GOM_NL__2PRFIN20060806_225558_000000302050_00087_23187_0508.N1	06-AUG-2006 22:55:58	Bright	30.000	144	18Del Cyg	2.8600	11000.	60	23187	No
246	GOM_NL__2PRFIN20060806_225810_000000292050_00087_23187_0509.N1	06-AUG-2006 22:58:10	Bright	29.000	69	33Gam Dra	2.2310	3800.0	58	23187	No
247	GOM_NL__2PRFIN20060806_230836_000000282050_00087_23187_0510.N1	06-AUG-2006 23:08:36	Bright	27.500	49	1Alp UMi	1.9900	6300.0	55	23187	No
248	GOM_NL__2PRFIN20060806_232134_000000302050_00087_23187_0511.N1	06-AUG-2006 23:21:34	Bright	29.500	42	34Bet Aur	1.9000	10200.	59	23187	No
249	GOM_NL__2PRFIN20060806_232352_000000402050_00087_23187_0512.N1	06-AUG-2006 23:23:52	Bright	40.000	107	37The Aur	2.6490	11000.	80	23187	No
250	GOM_NL__2PRFIN20060806_233239_000000492050_00087_23187_0513.N1	06-AUG-2006 23:32:39	Dark	49.000	14	58Alp Ori	0.87000	3000.0	98	23187	No
251	GOM_NL__2PRFIN20060806_233532_000000352050_00087_23187_0514.N1	06-AUG-2006 23:35:32	Dark	35.000	30	46Eps Ori	1.6940	30000.	70	23187	No
252	GOM_NL__2PRFIN20060806_233737_000000352050_00087_23187_0515.N1	06-AUG-2006 23:37:37	Dark	34.500	56	53Kap Ori	2.0650	30000.	69	23187	No
253	GOM_NL__2PRFIN20060806_233910_000000352050_00087_23187_0516.N1	06-AUG-2006 23:39:10	Dark	34.500	47	2Bet CMa	1.9760	28000.	69	23187	No
254	GOM_NL__2PRFIN20060806_234110_000000392050_00087_23187_0517.N1	06-AUG-2006 23:41:10	Dark	39.000	139	9Bet Lep	2.8330	5600.0	78	23187	No
255	GOM_NL__2PRFIN20060806_234230_000000332050_00087_23187_0518.N1	06-AUG-2006 23:42:30	Dark	33.000	177	1Zet CMa	3.0220	26000.	66	23187	No
256	GOM_NL__2PRFIN20060806_235757_000000382050_00088_23188_0501.N1	06-AUG-2006 23:57:57	Dark	38.000	9	Alp Eri	0.45300	24000.	76	23188	No
257	GOM_NL__2PRFIN20060806_235919_000000312050_00088_23188_0502.N1	06-AUG-2006 23:59:19	Dark	30.500	135	Bet Hyi	2.8200	5800.0	61	23188	No

3. Quality information per product

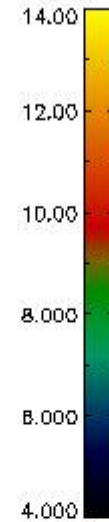
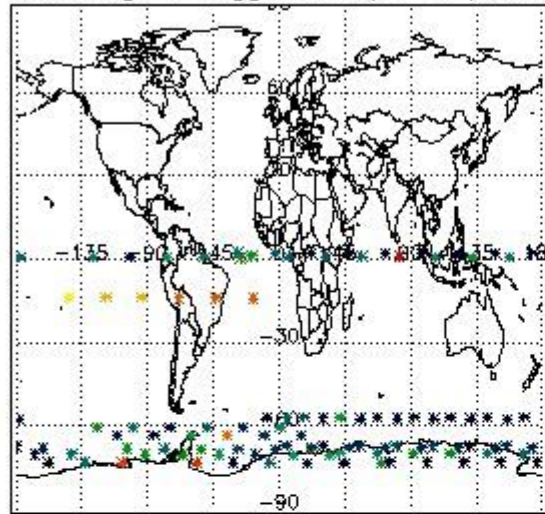
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

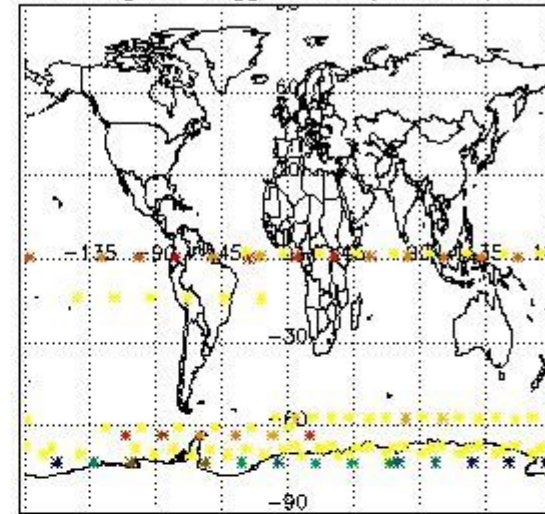


3.2 Plot quality information per product (world map)

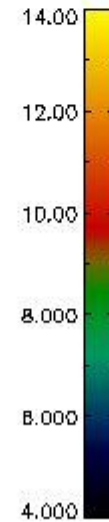
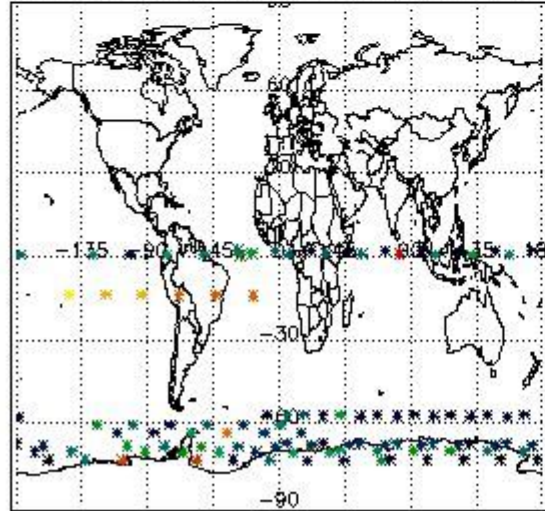
Percentage of flagged data per O3 profile



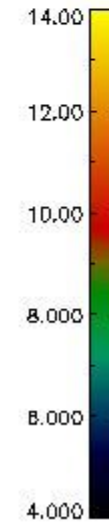
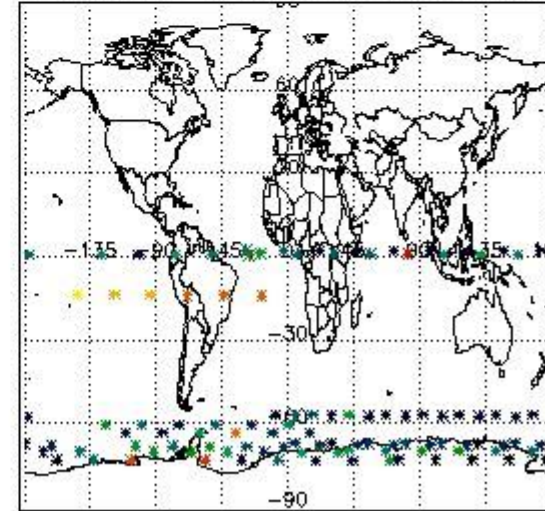
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

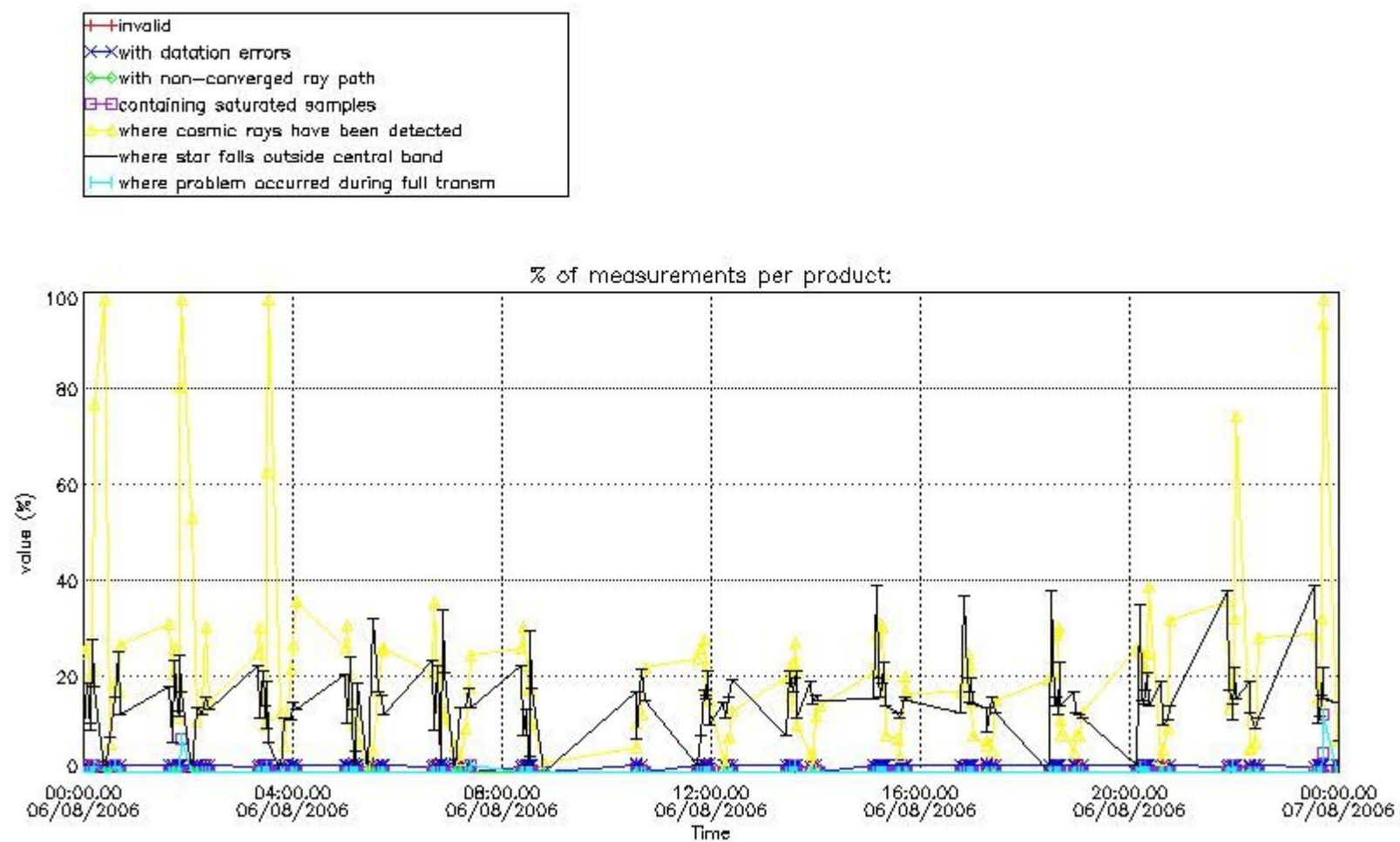


4. Level 1 quality information per product

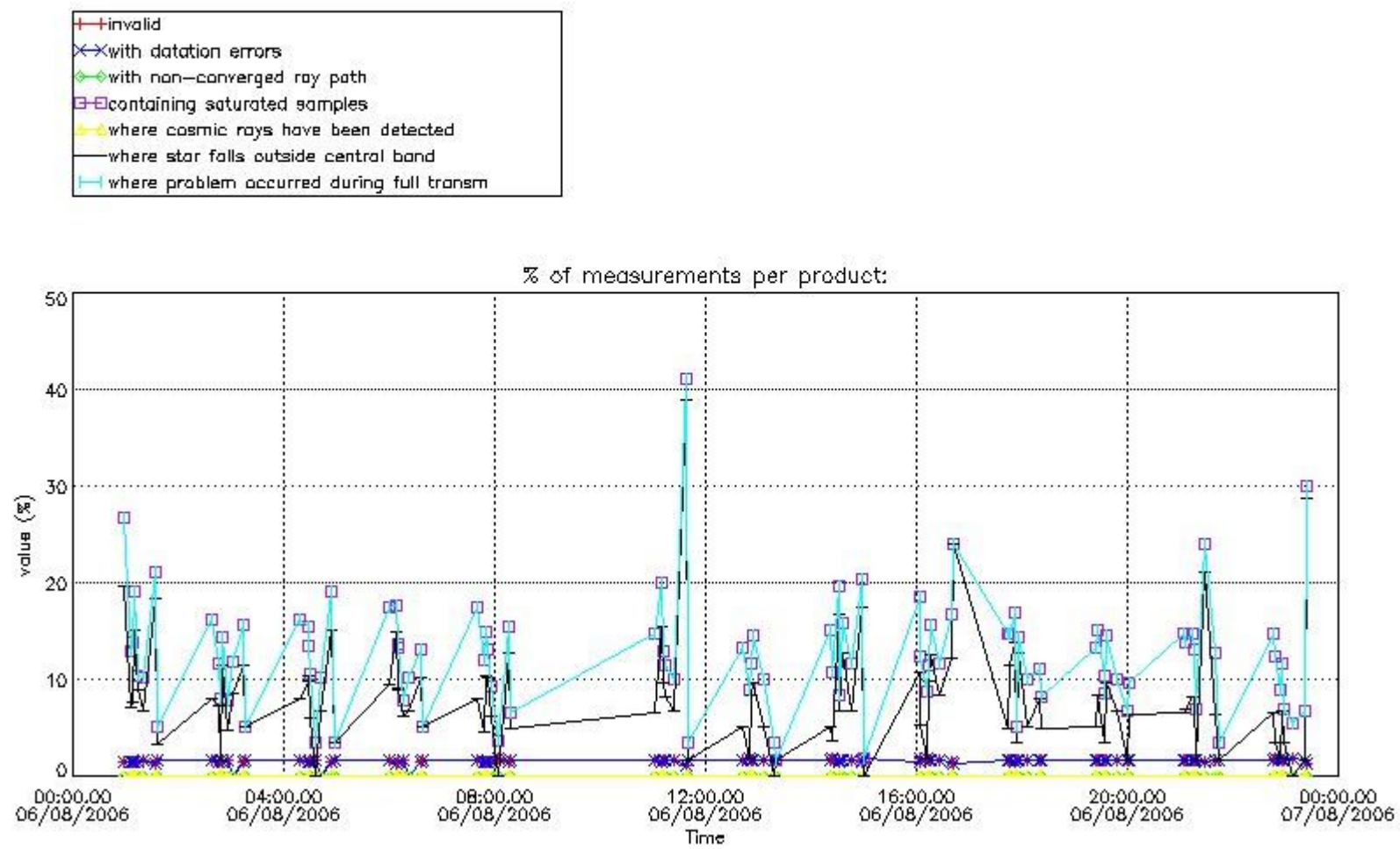
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



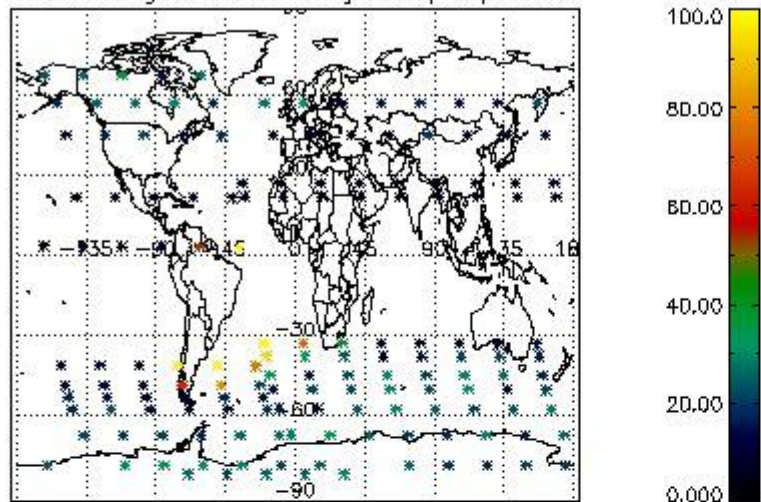
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



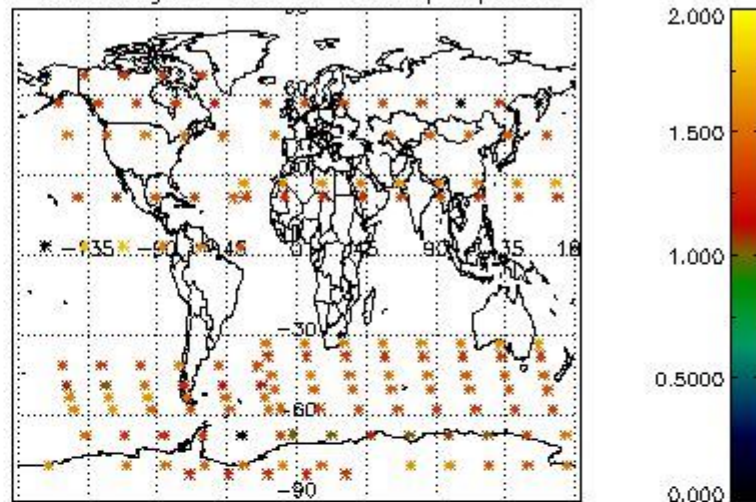
4.2 Plot quality information per product coming from level 1b processing (world map)

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

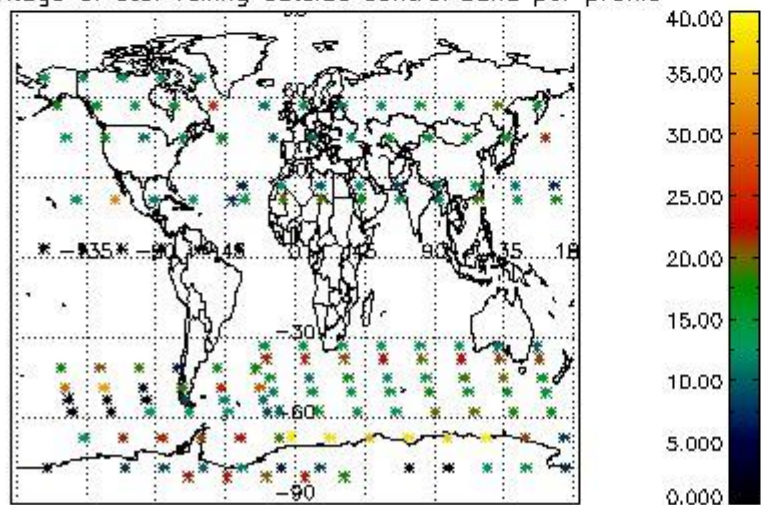
Percentage of cosmic ray hits per profile



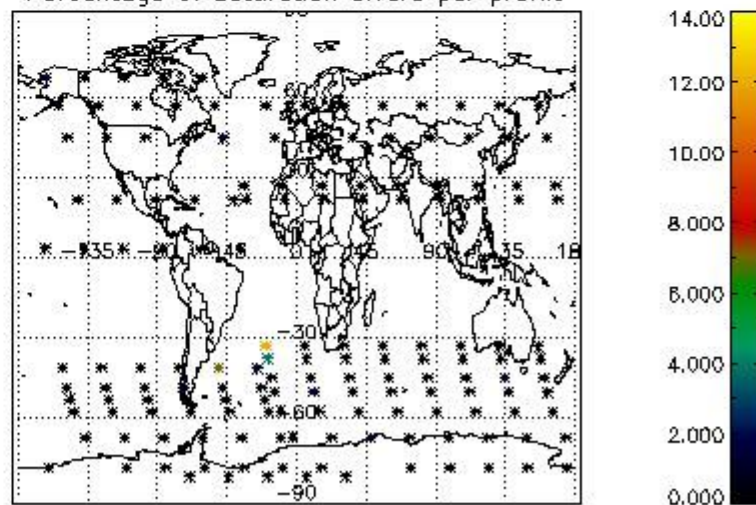
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

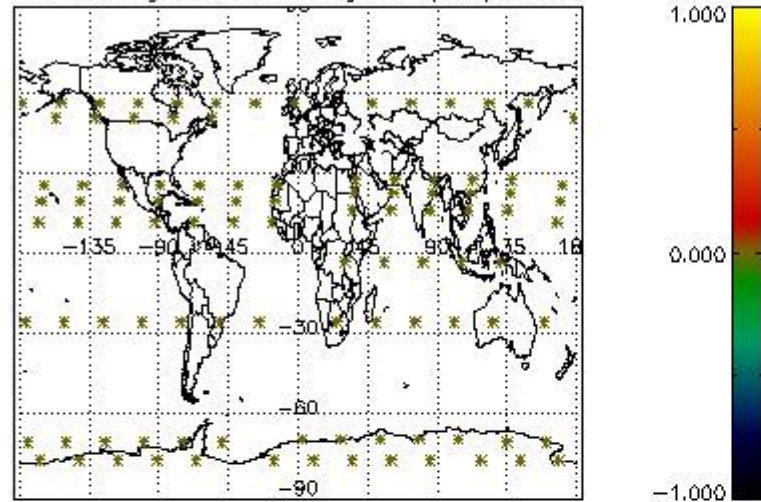


Percentage of saturation errors per profile

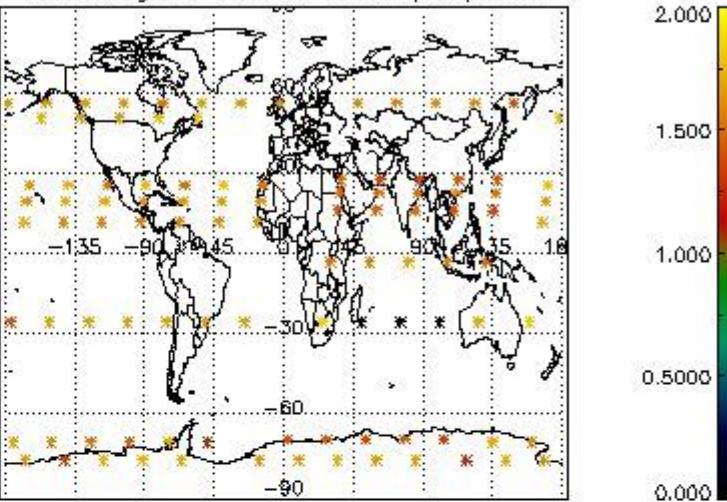


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

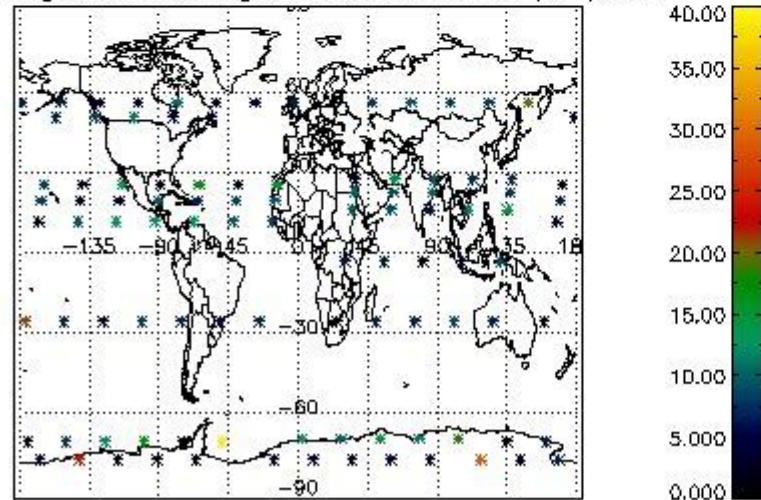
Percentage of cosmic ray hits per profile



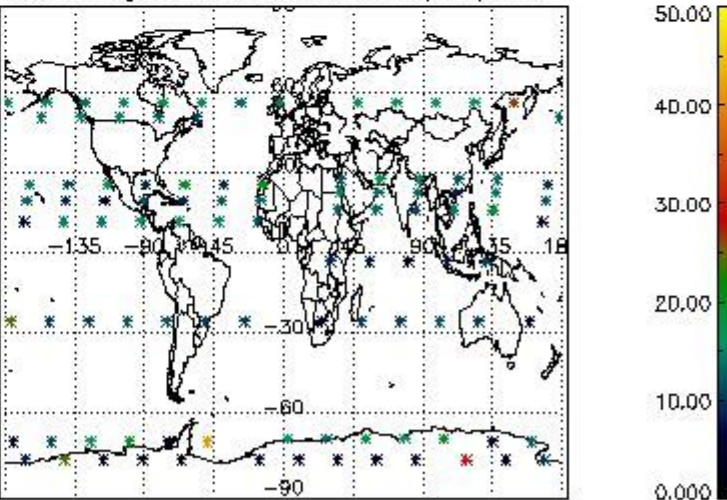
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

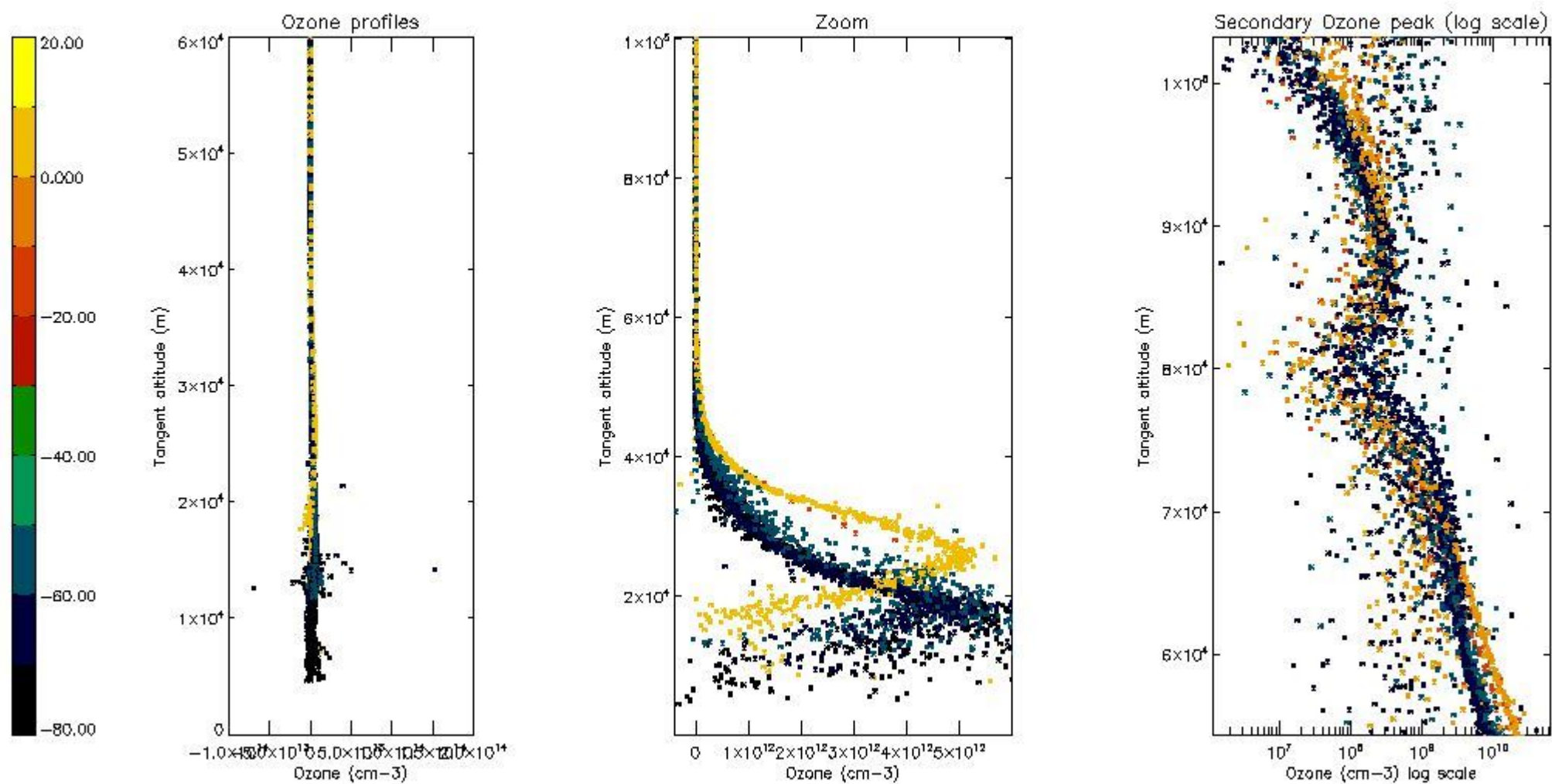
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	44
STD < 20	27

STD < 10	22
STD < 5	15

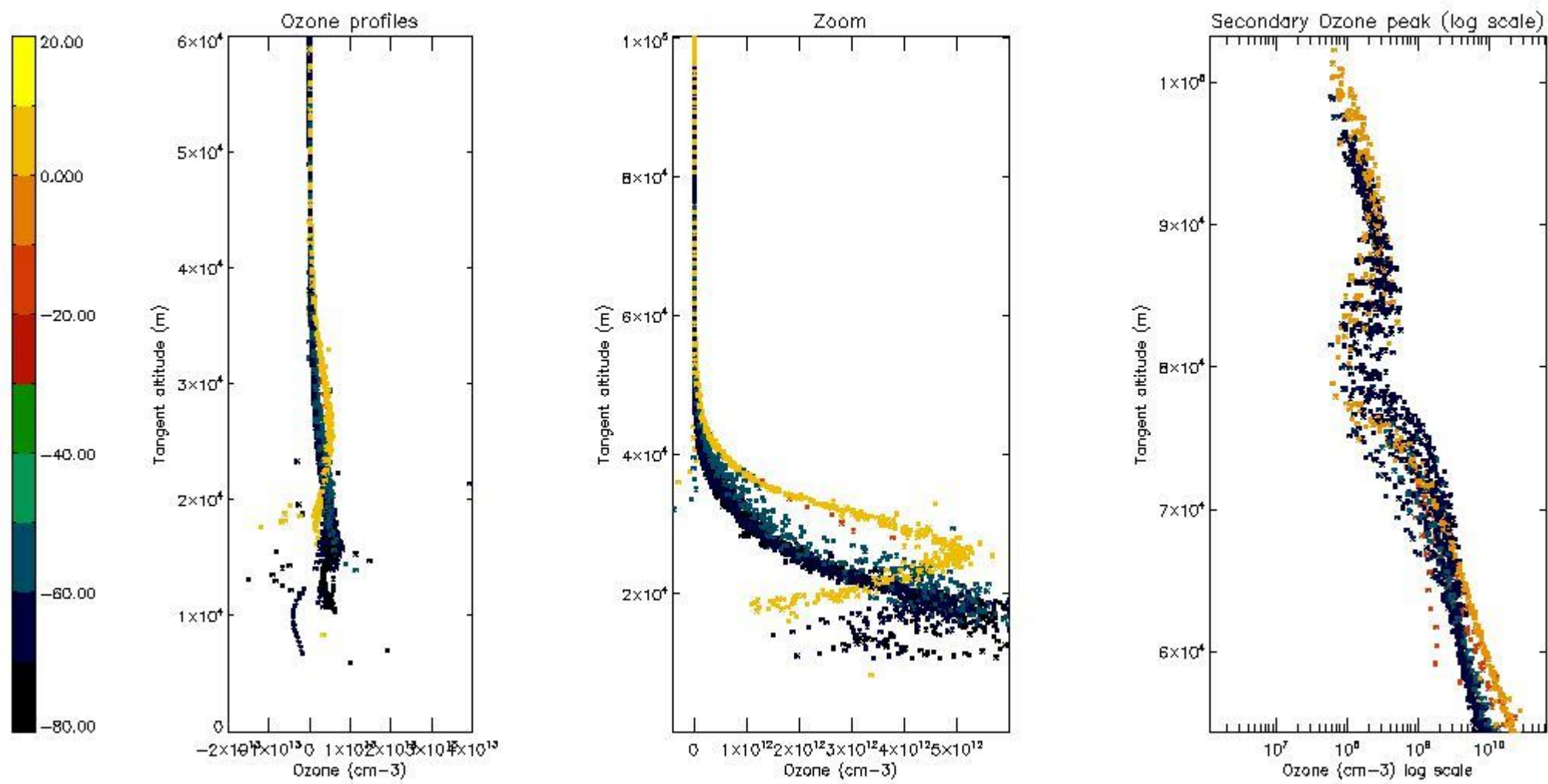
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



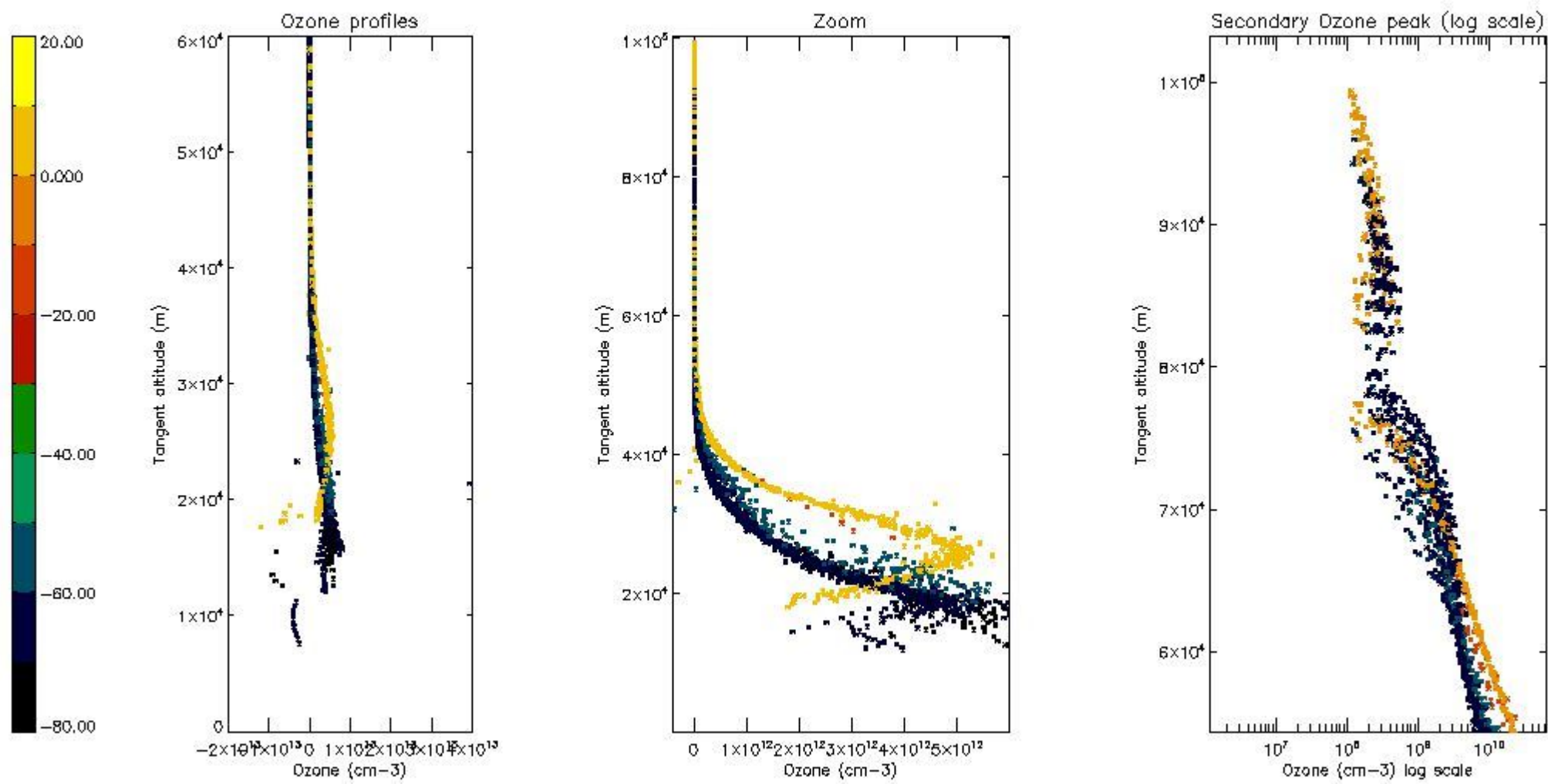
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



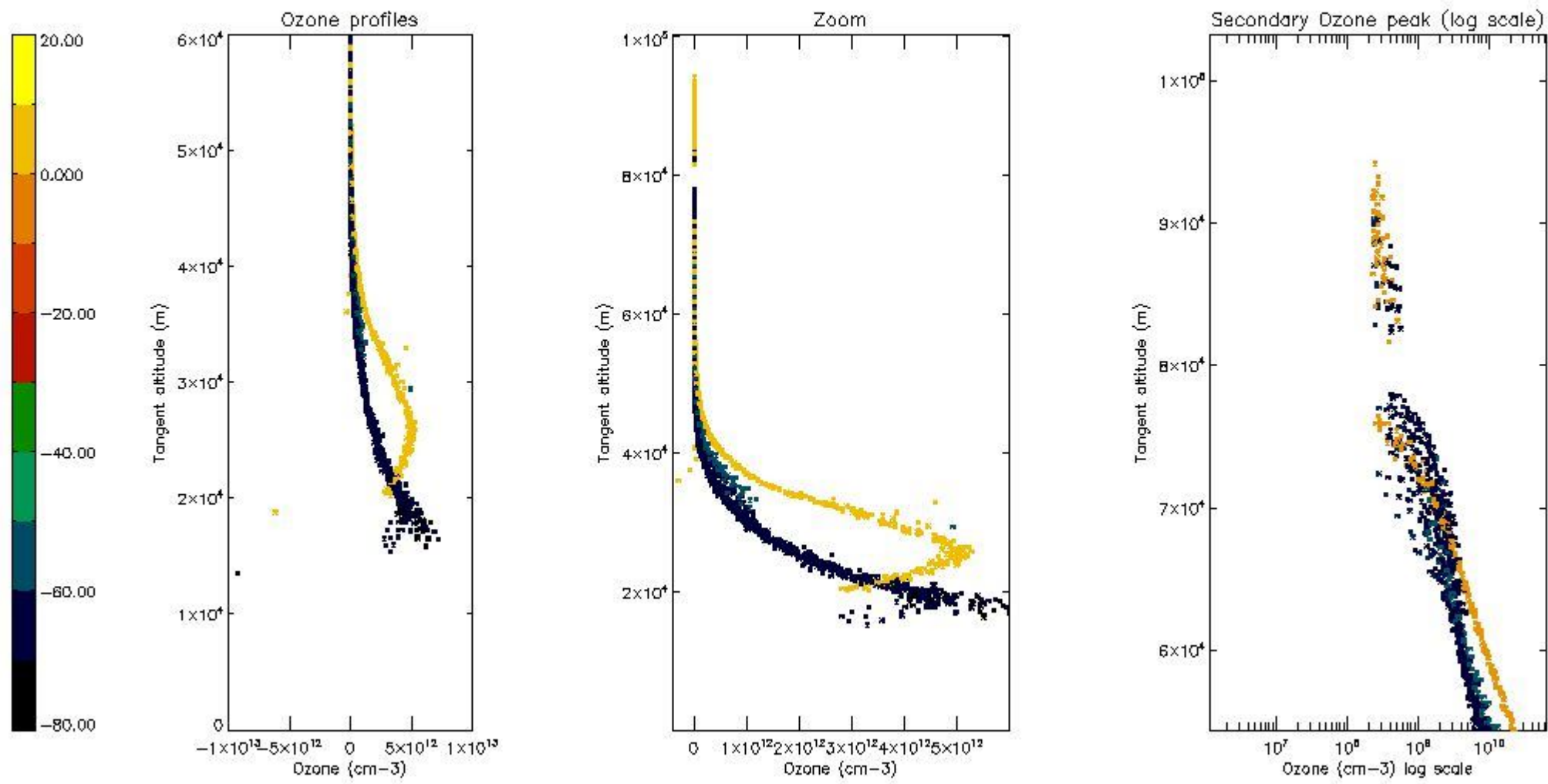
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



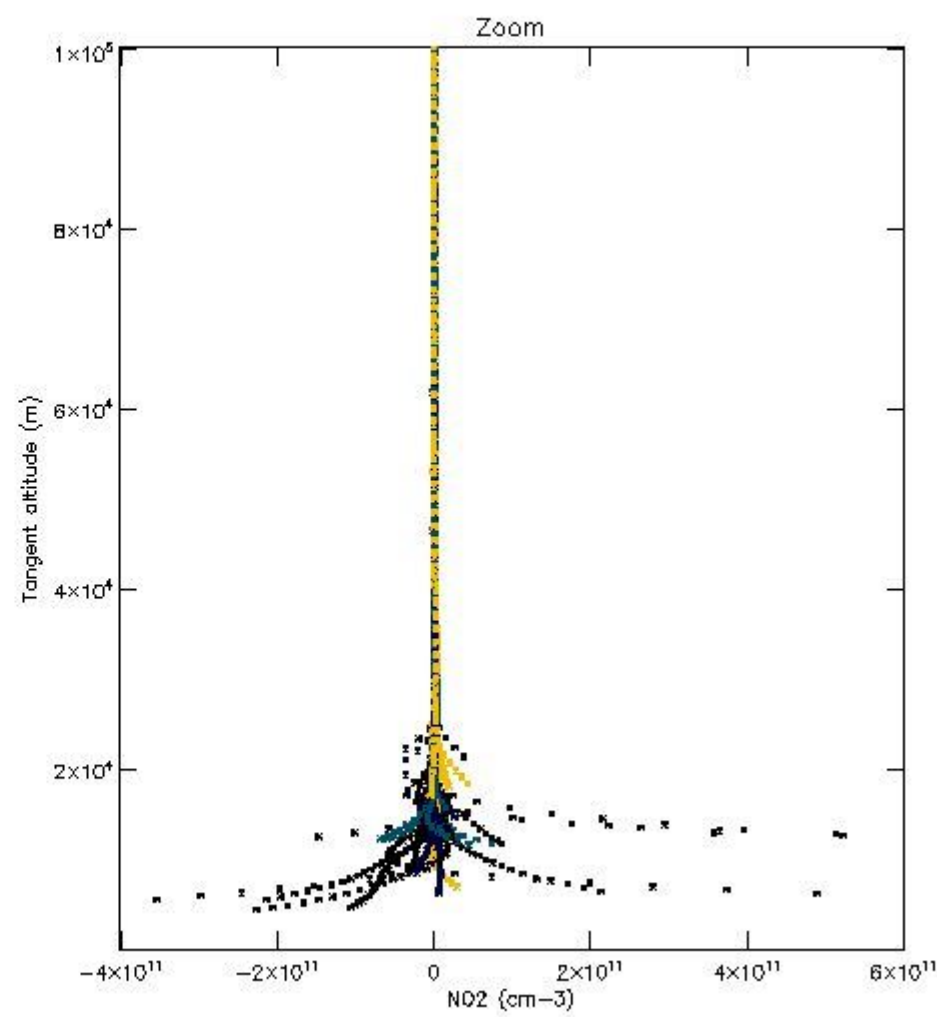
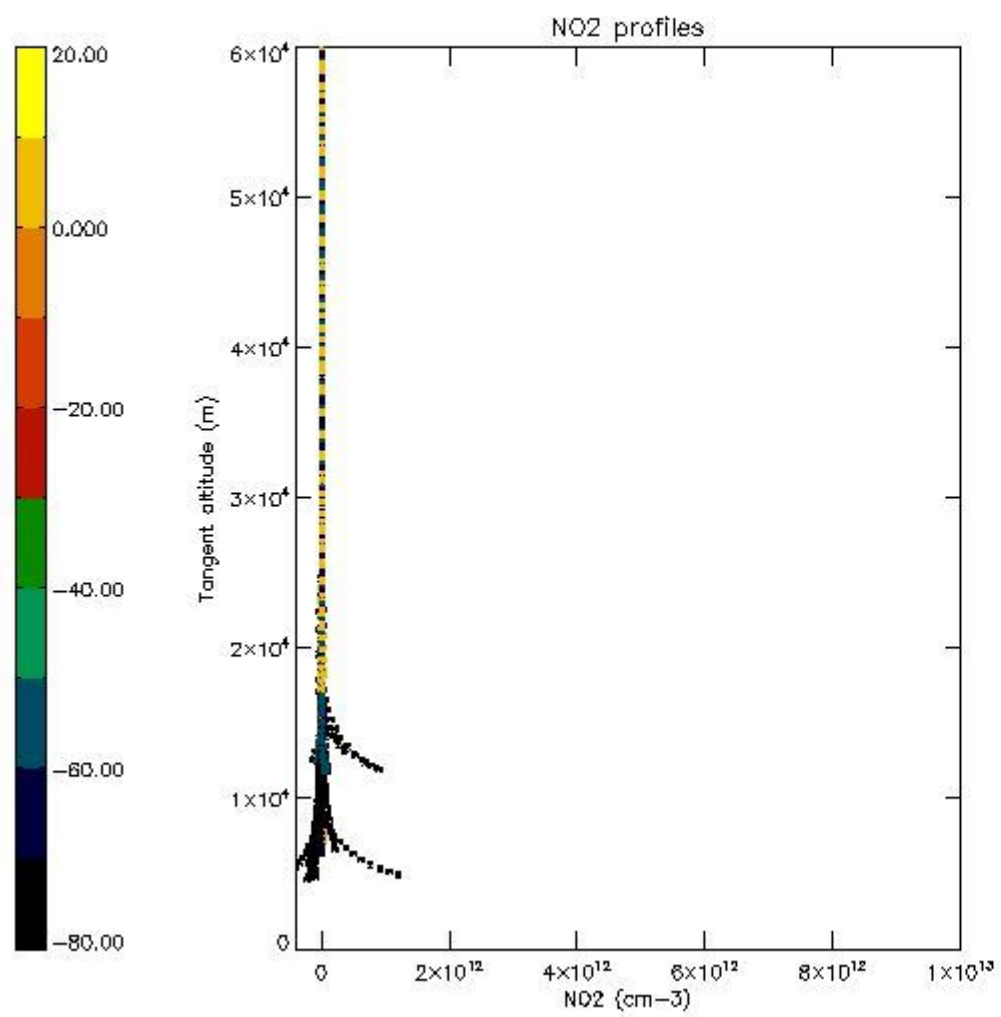
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



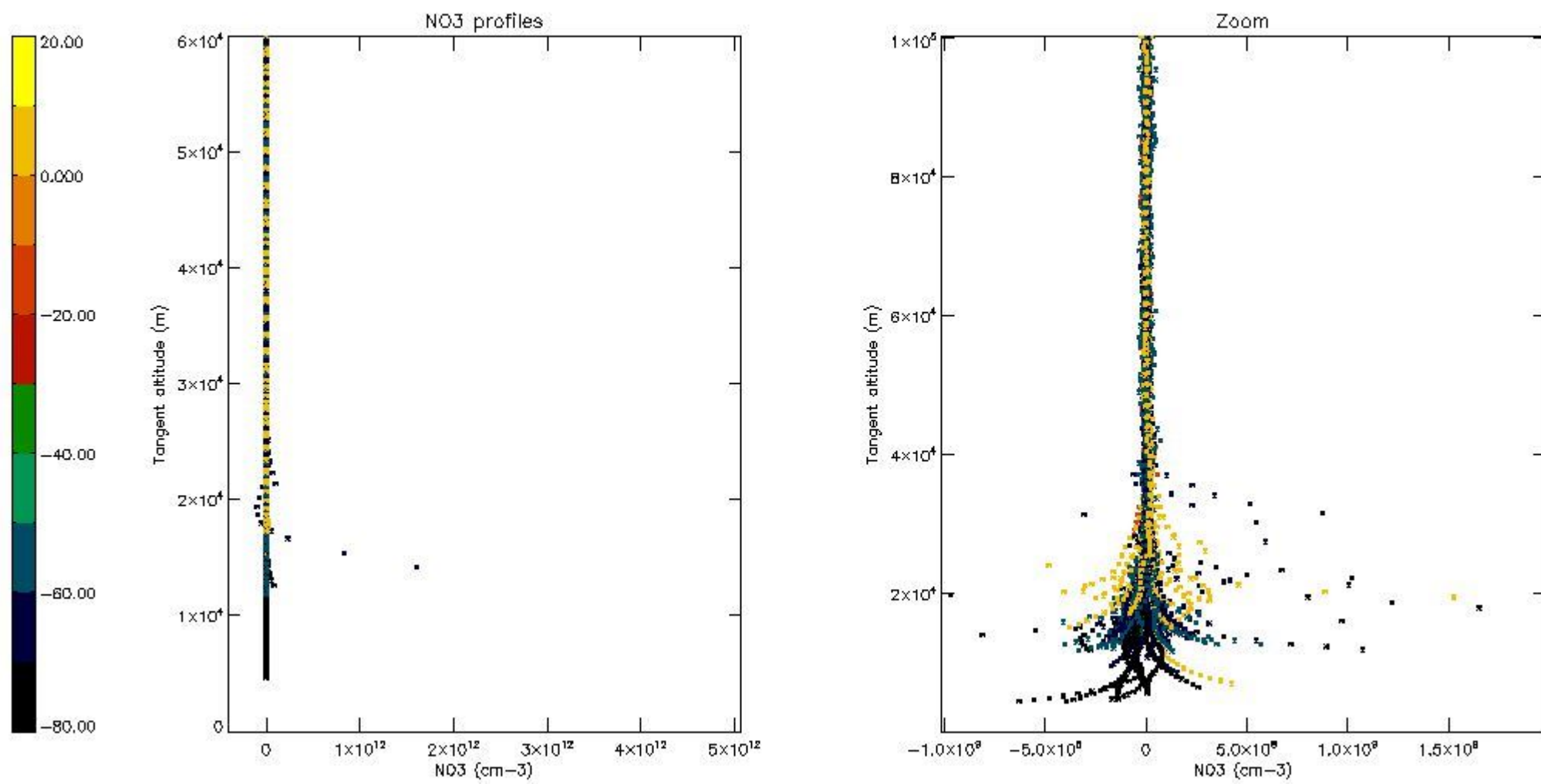
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



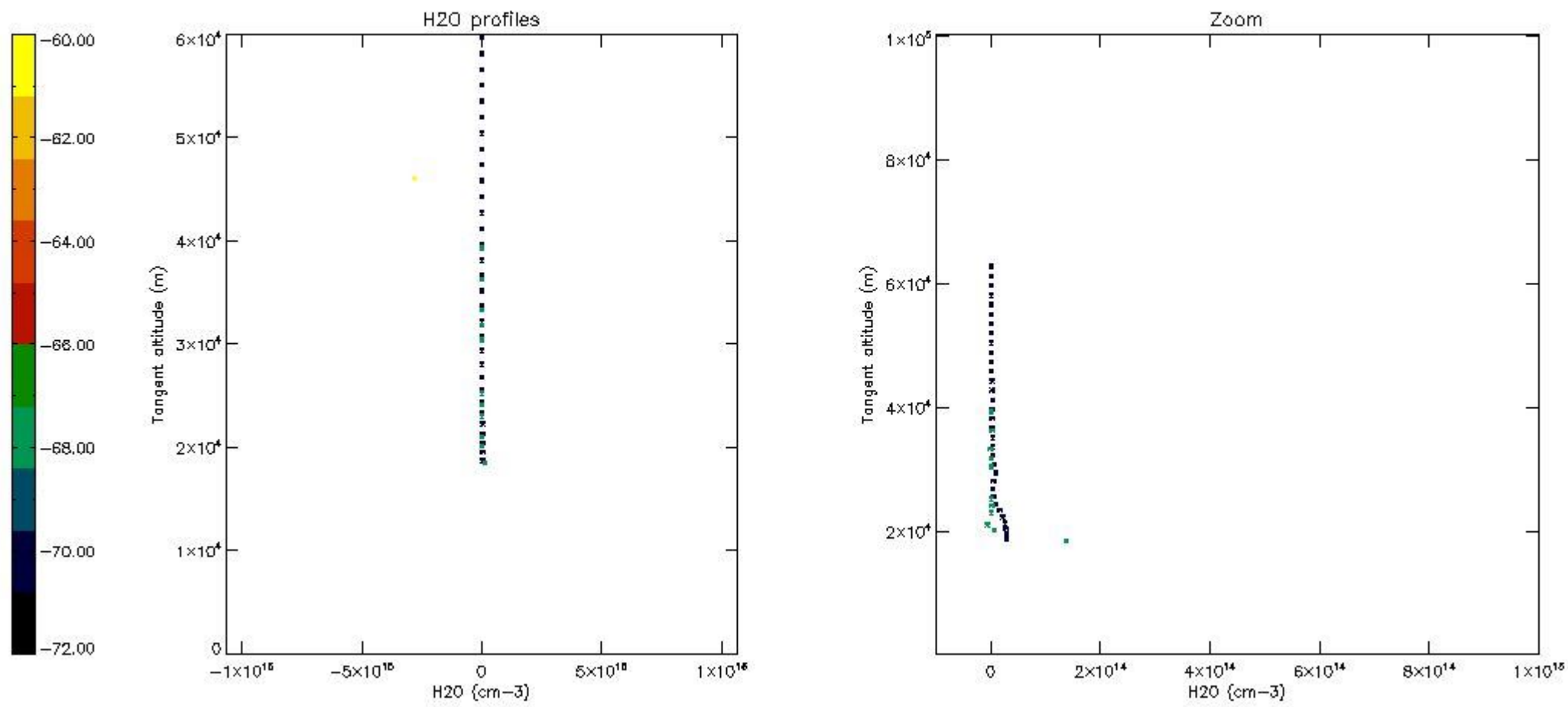
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

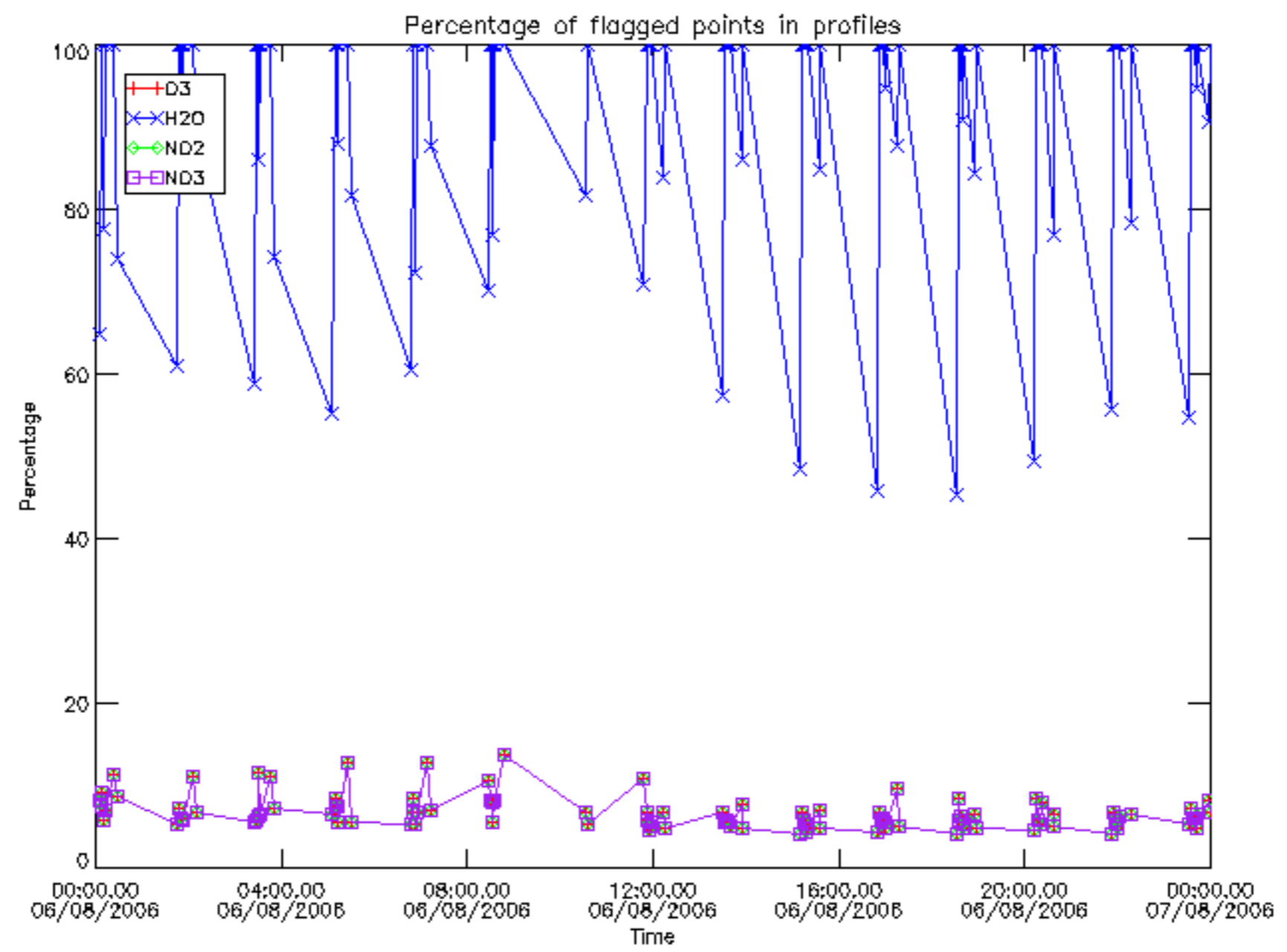
The colorbar represents the latitude.



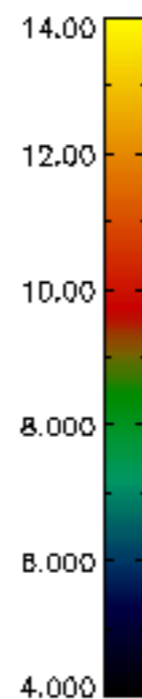
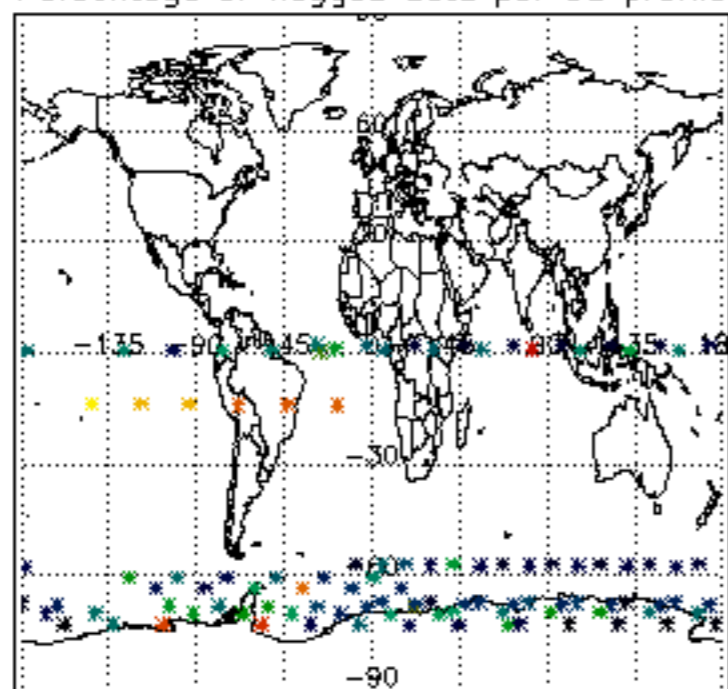
6. Auxiliary Data Files used for the production reported in section 2

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.

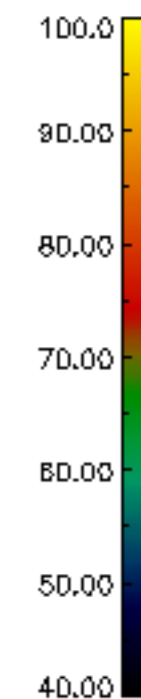
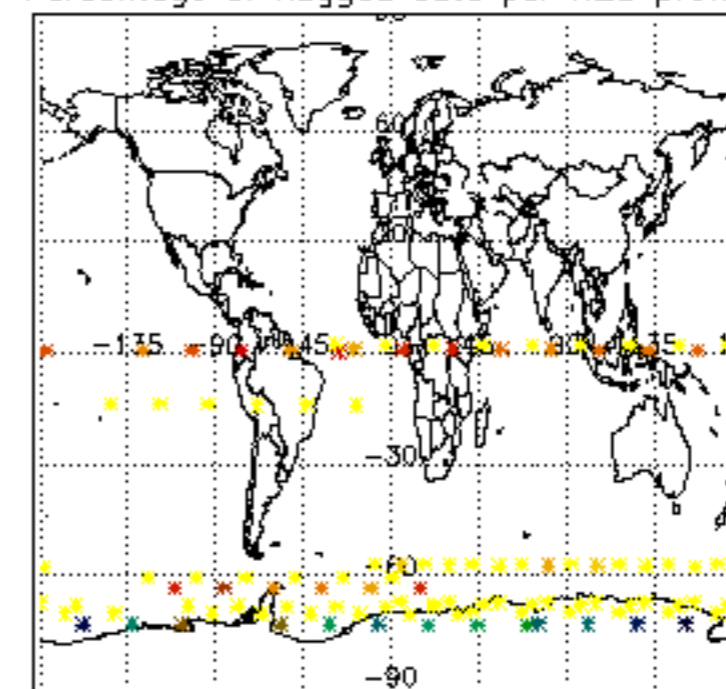
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	06-AUG-2006 00:00:29
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-AUG-2006 00:00:29
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-AUG-2006 00:00:29



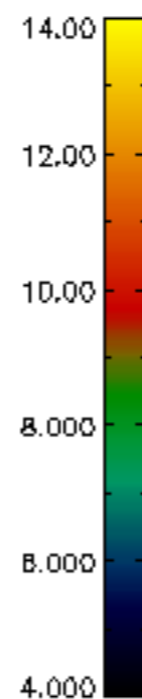
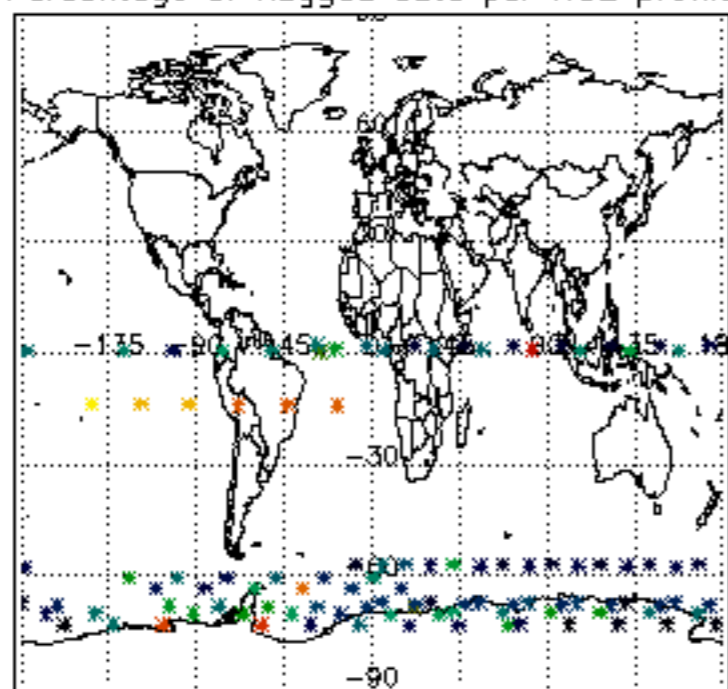
Percentage of flagged data per D3 profile



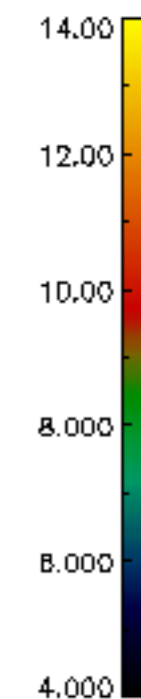
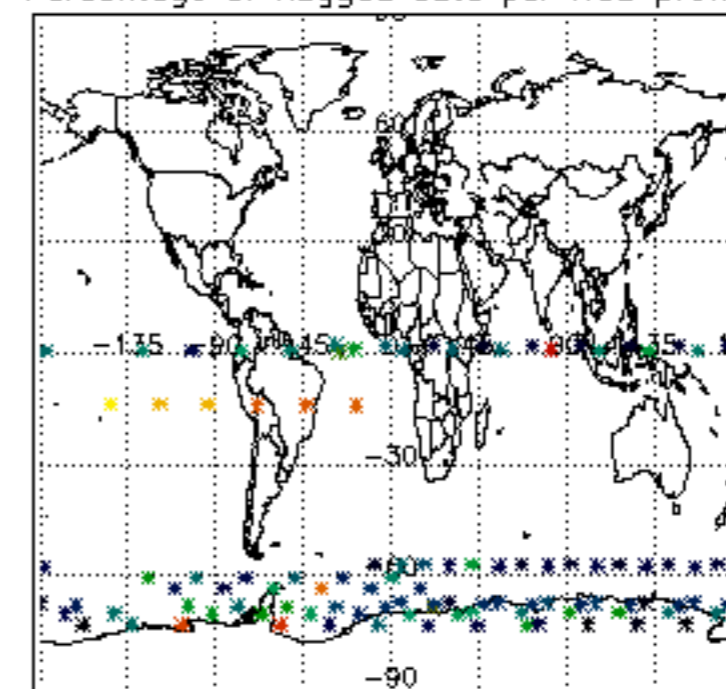
Percentage of flagged data per H2O profile

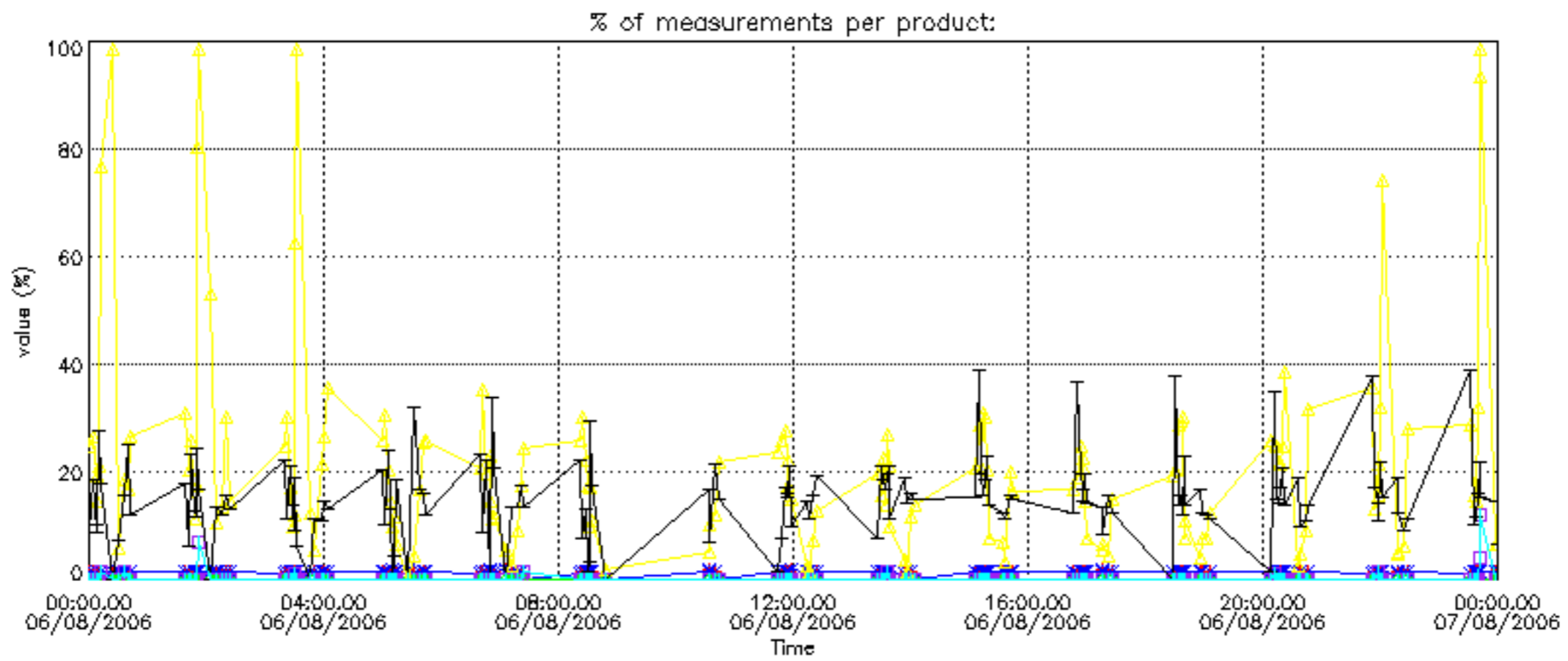


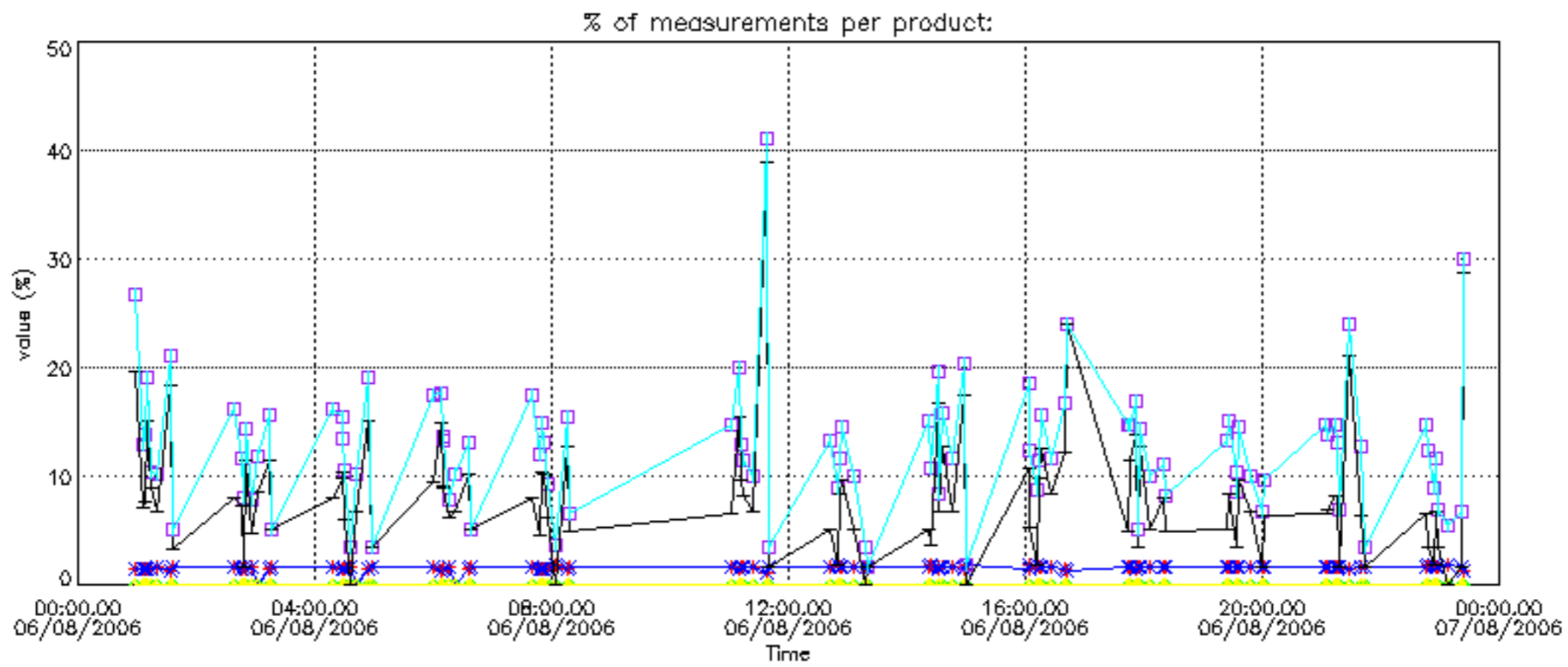
Percentage of flagged data per NO2 profile



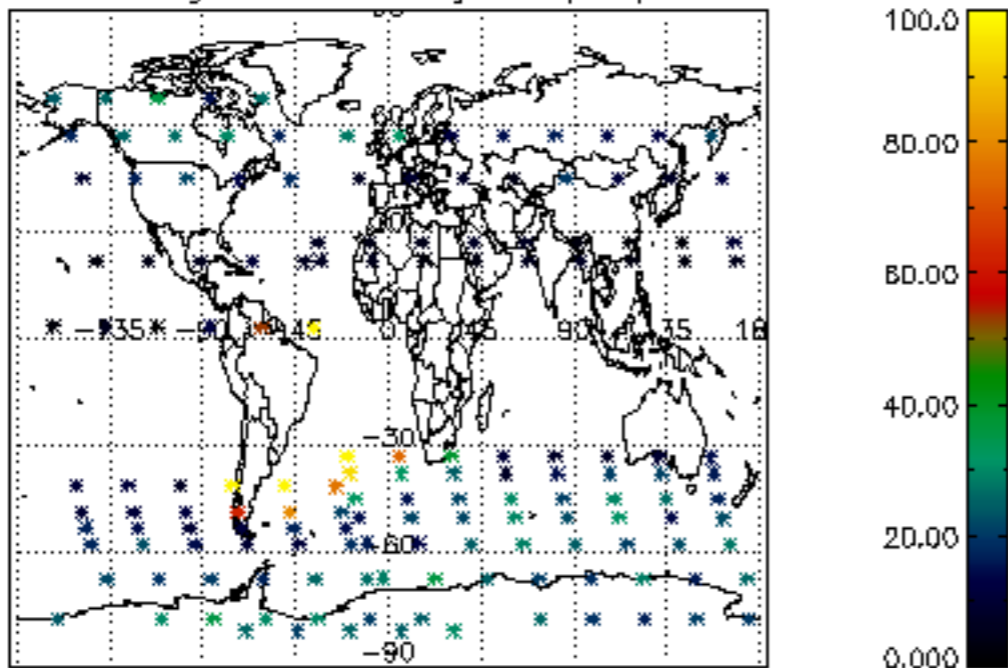
Percentage of flagged data per NO3 profile



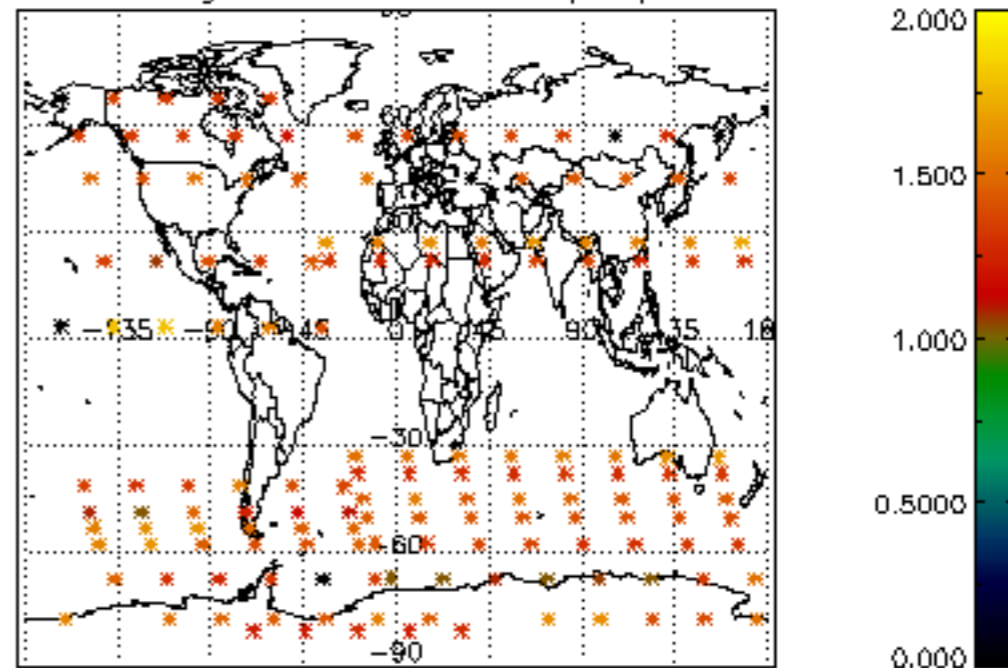




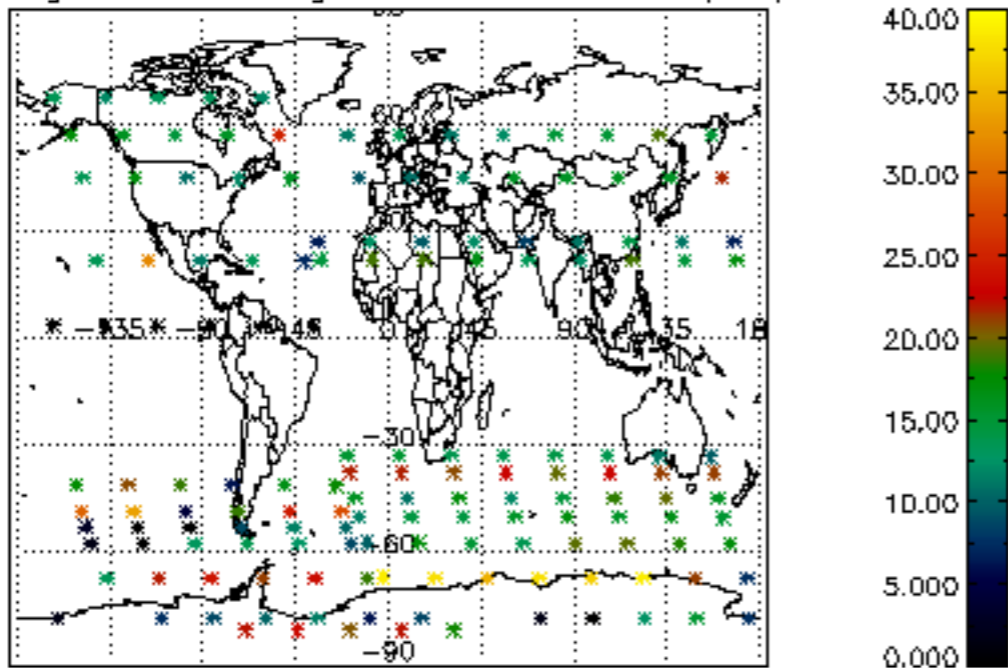
Percentage of cosmic ray hits per profile



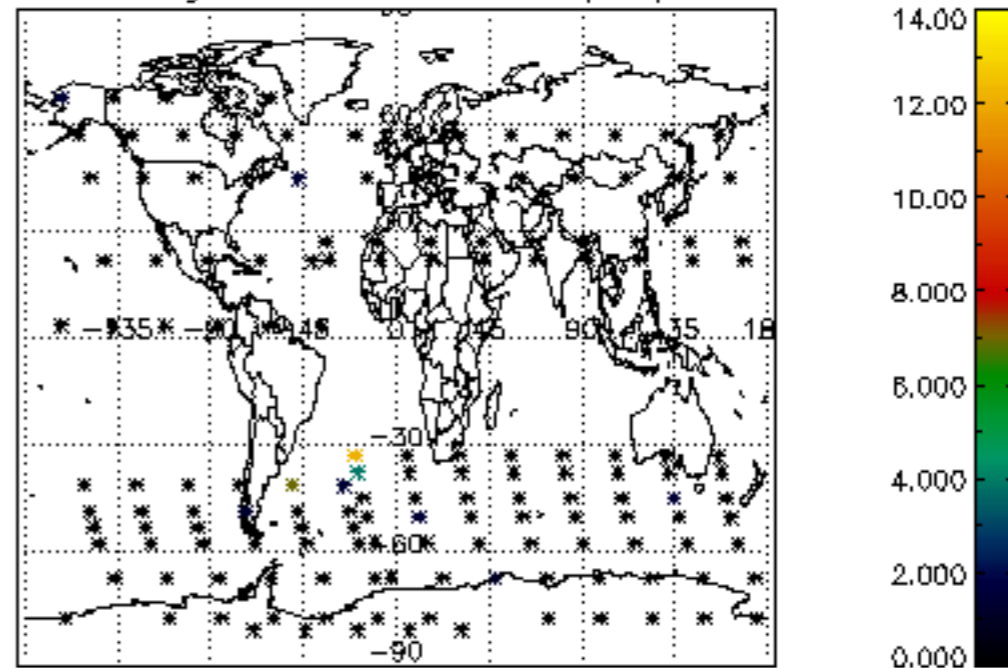
Percentage of datation errors per profile



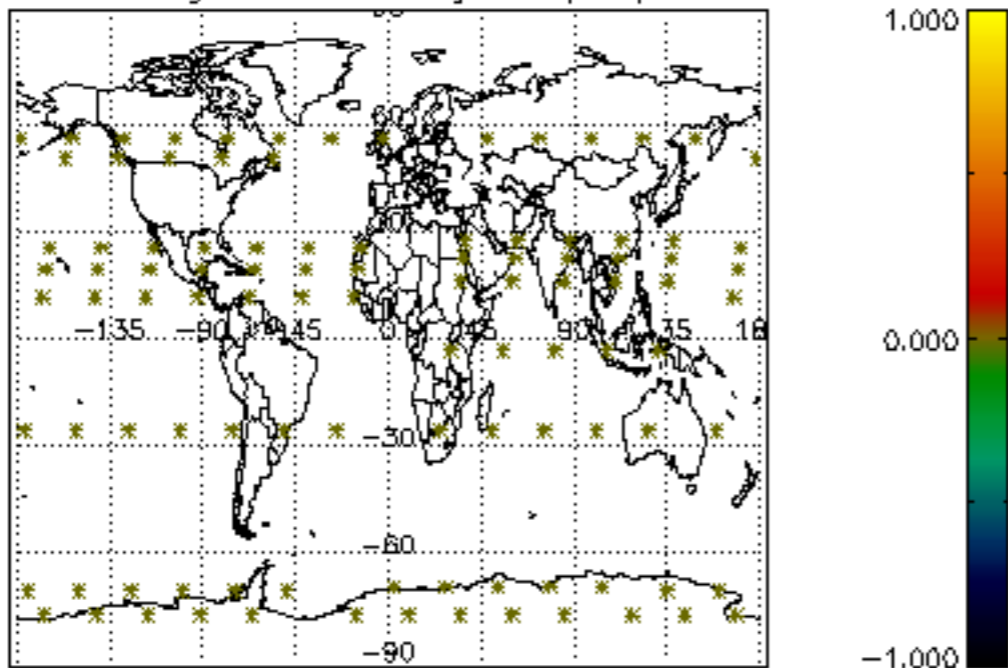
Percentage of star falling outside central band per profile



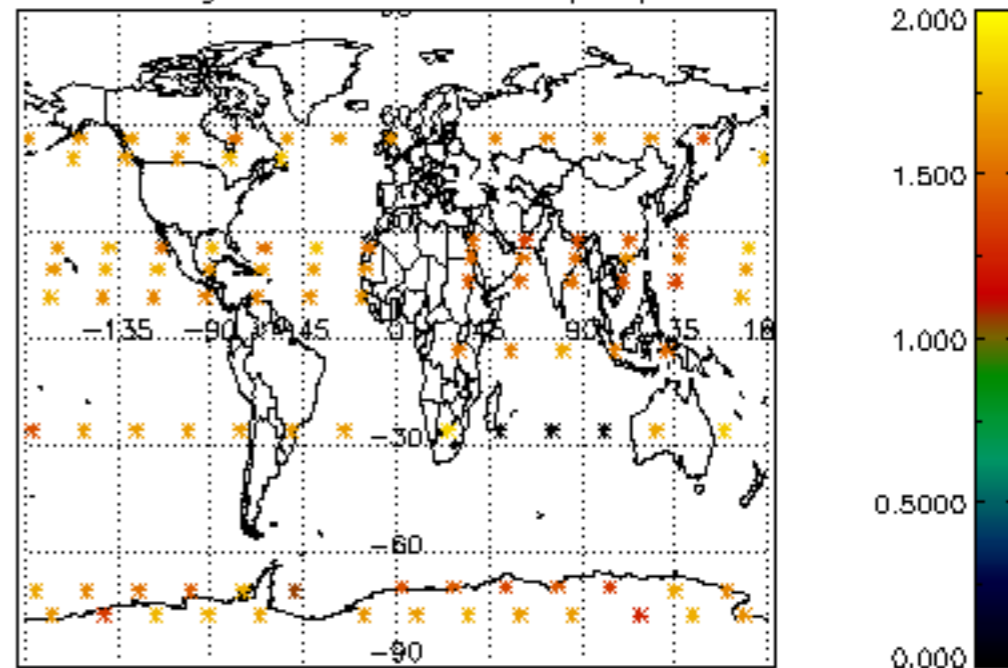
Percentage of saturation errors per profile



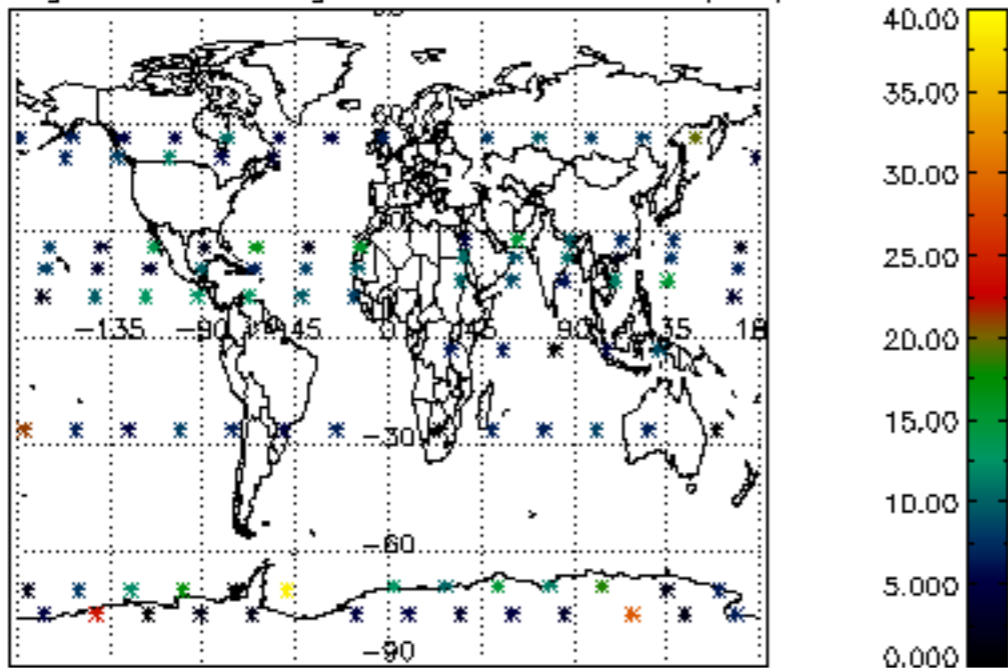
Percentage of cosmic ray hits per profile



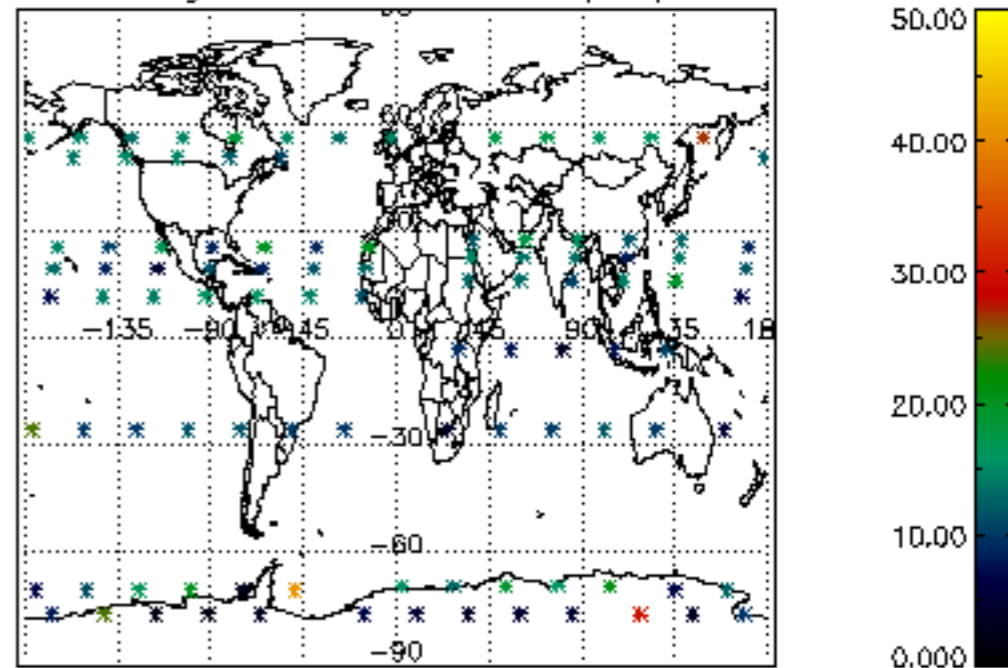
Percentage of datation errors per profile

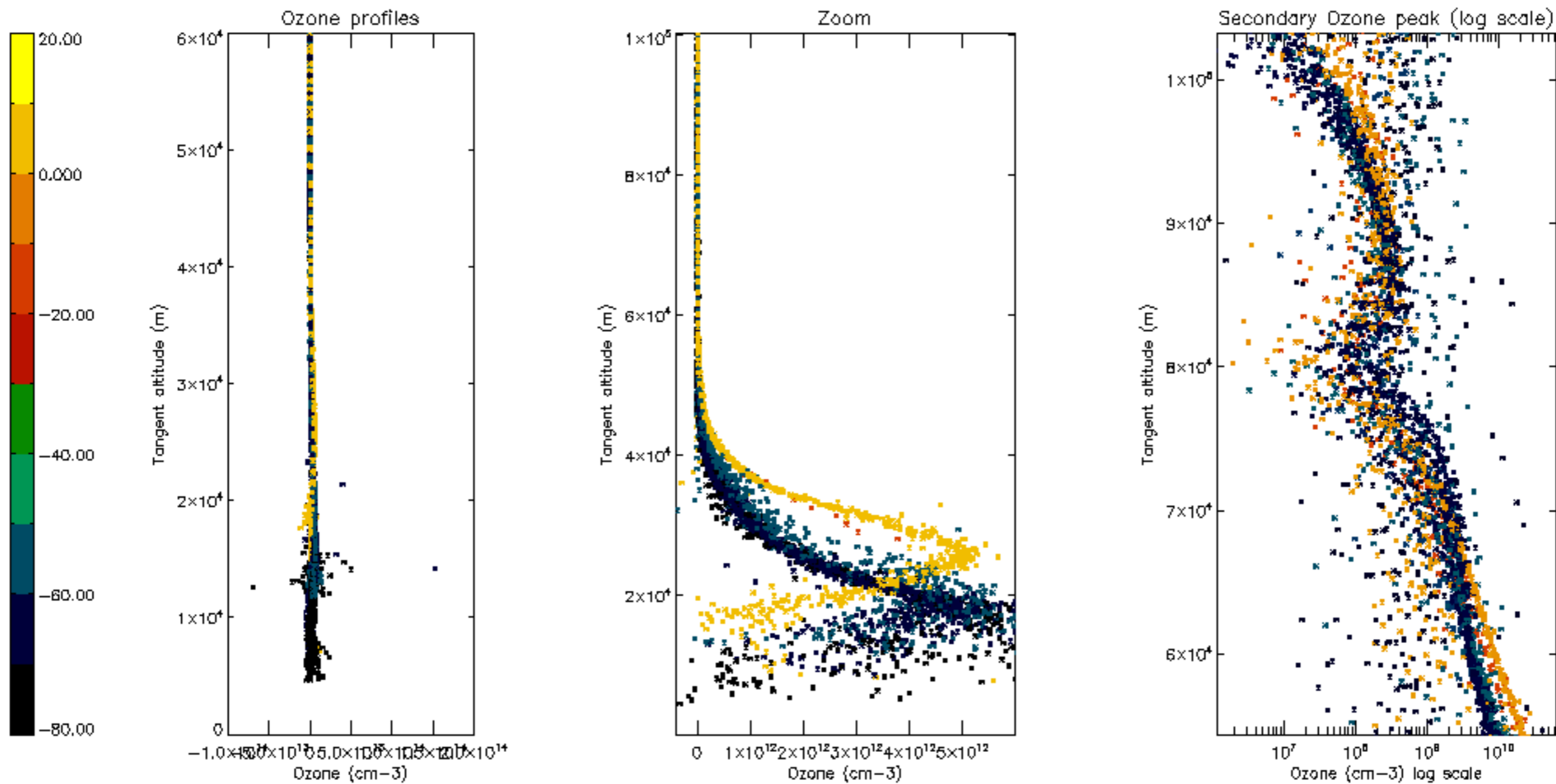


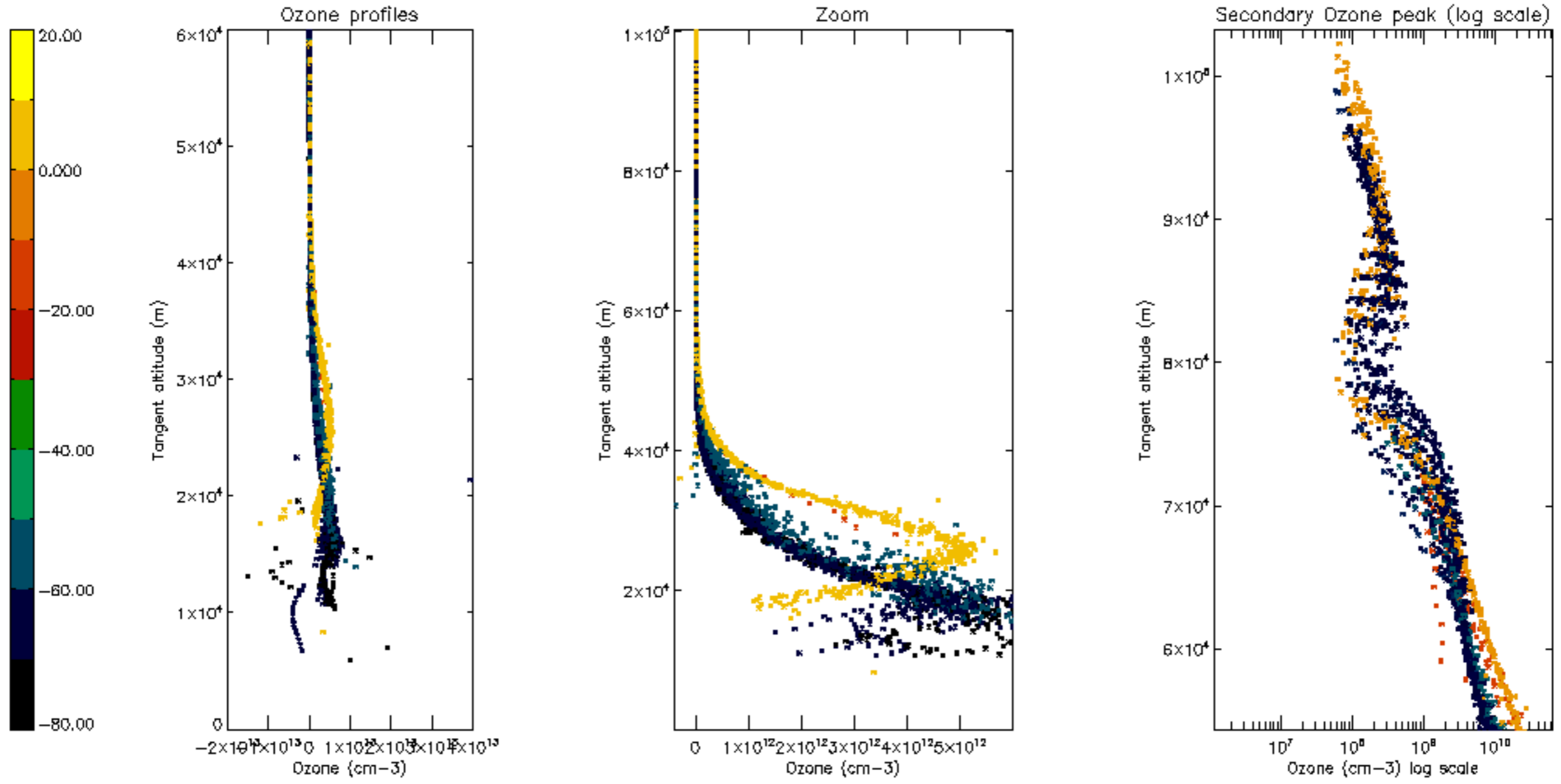
Percentage of star falling outside central band per profile

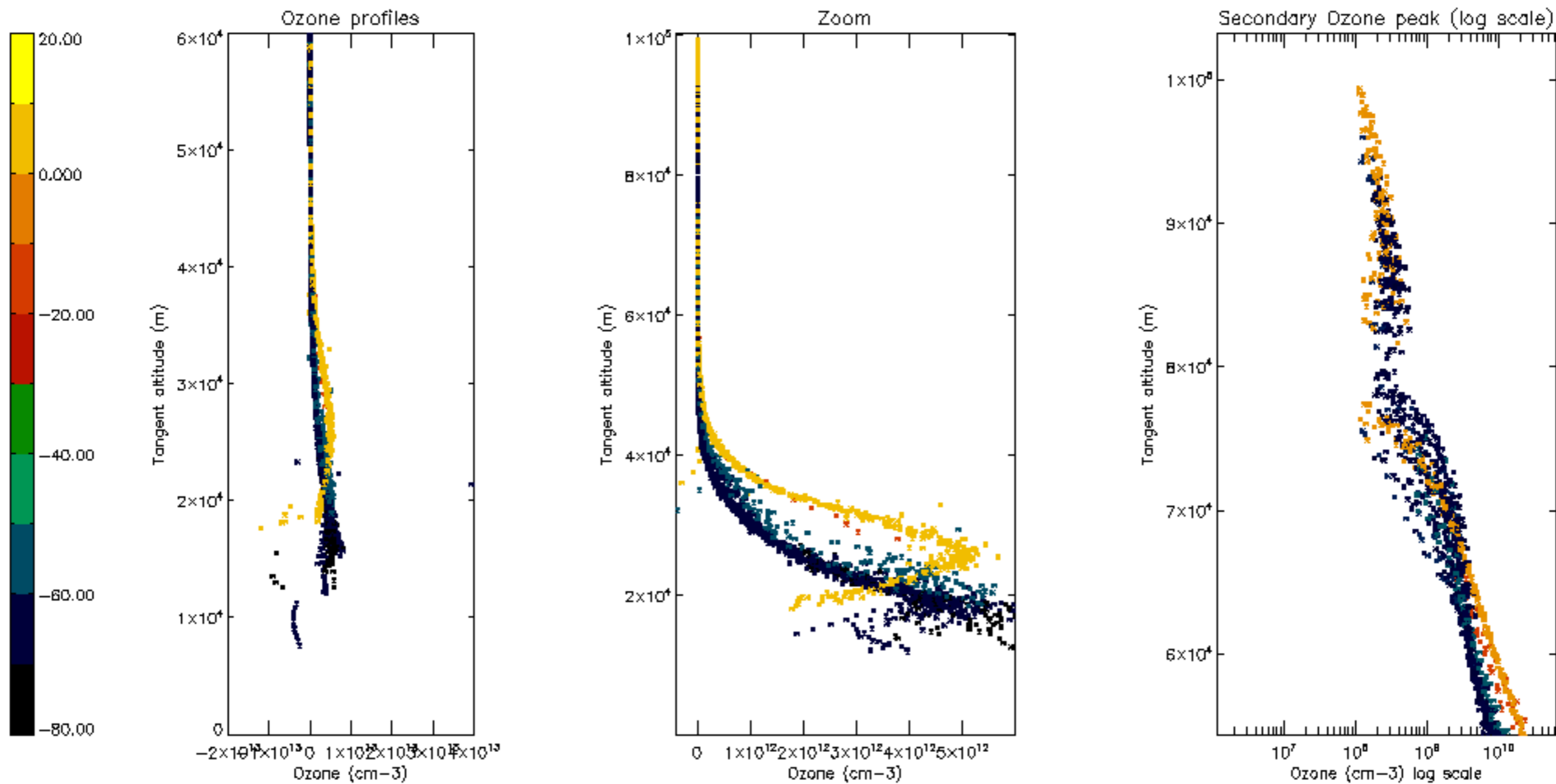


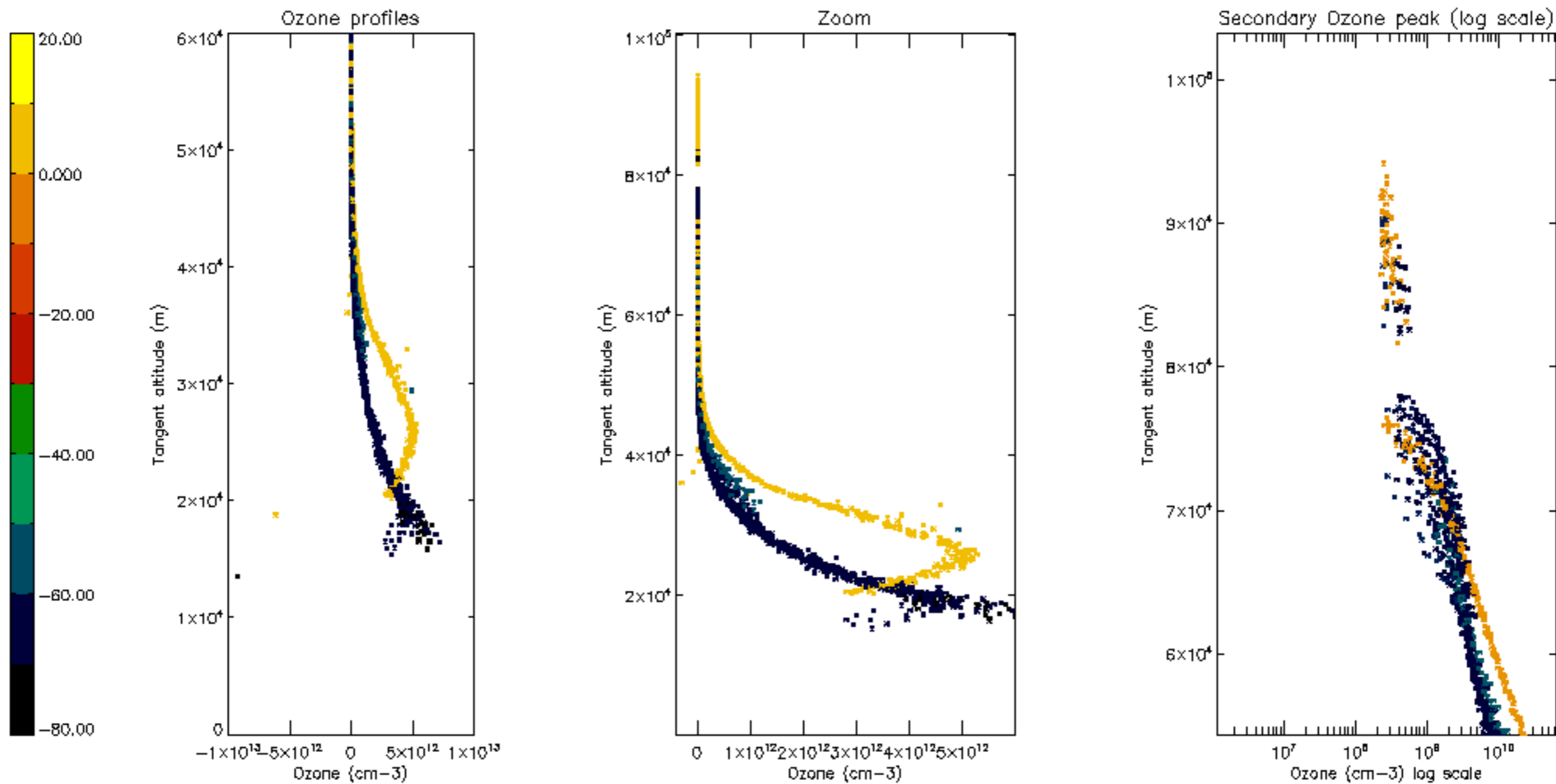
Percentage of saturation errors per profile

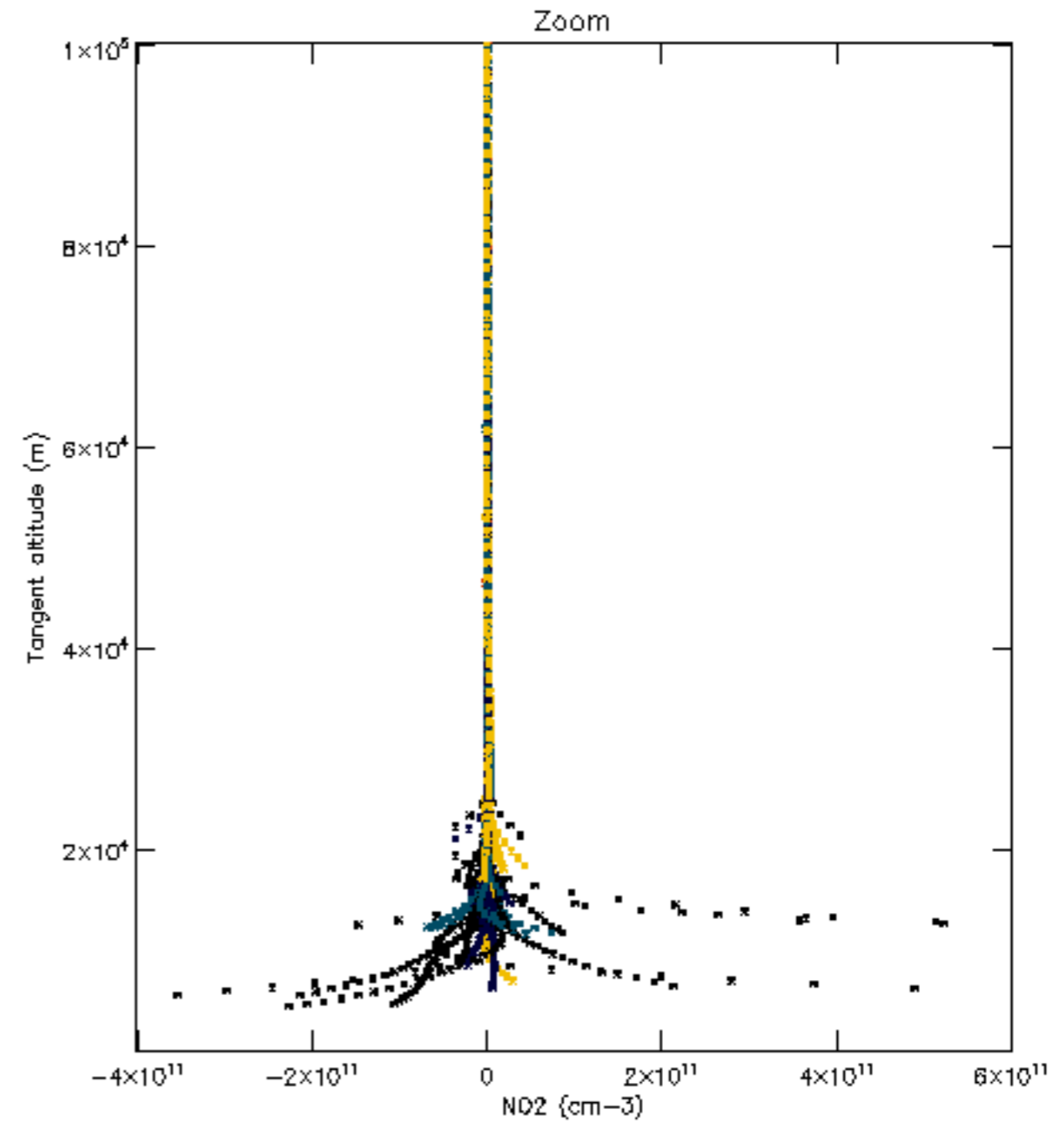
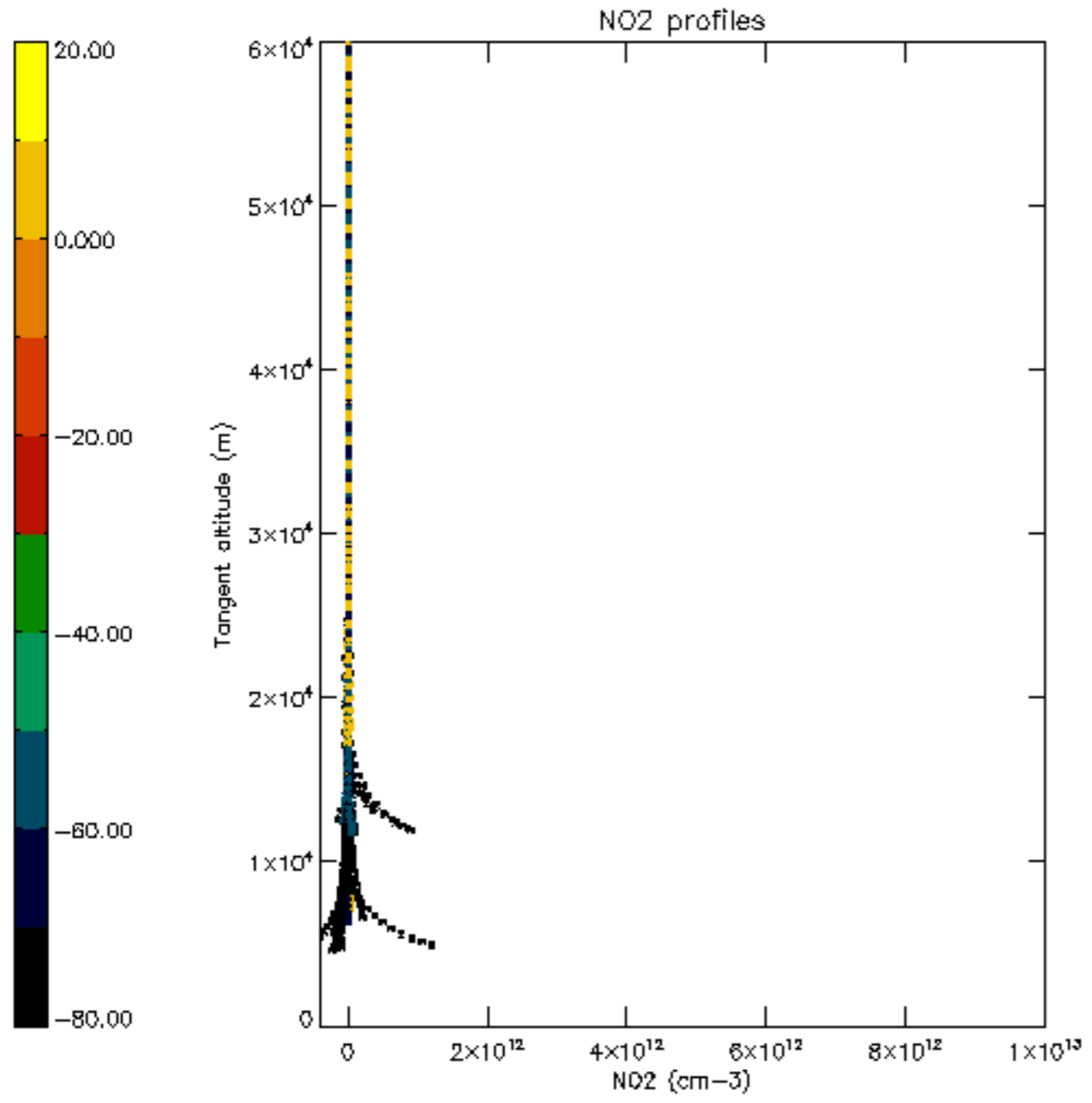


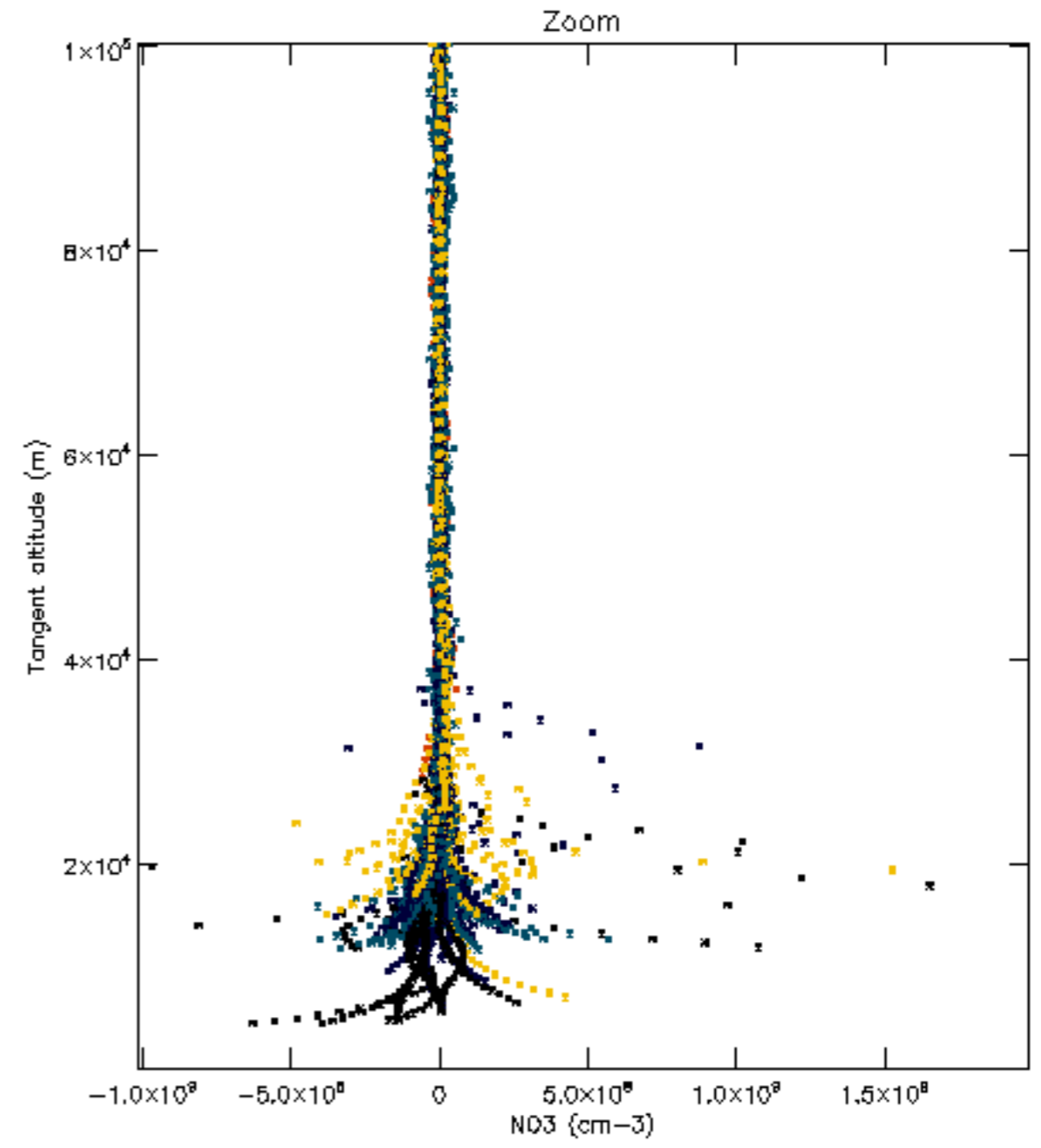
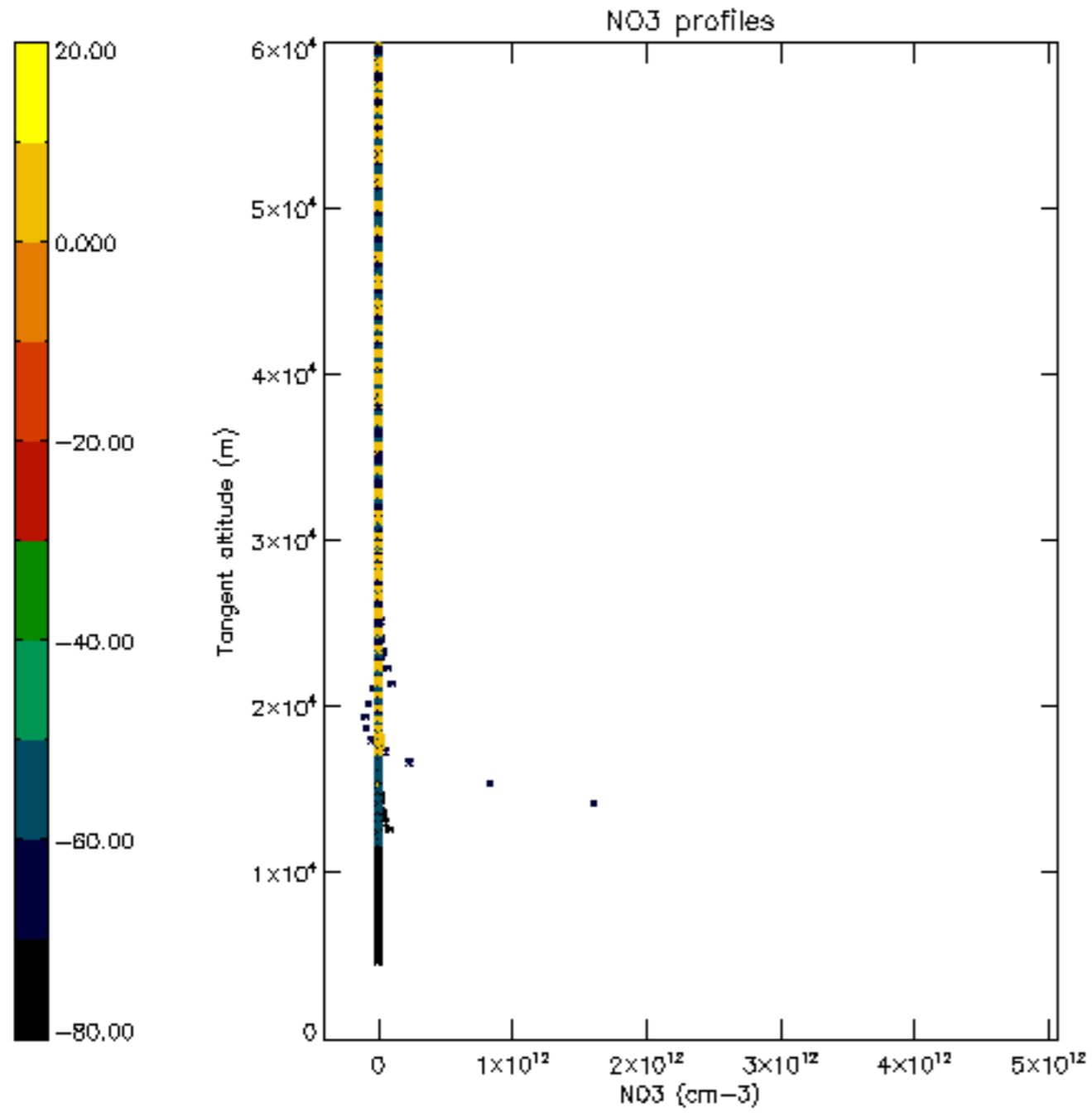


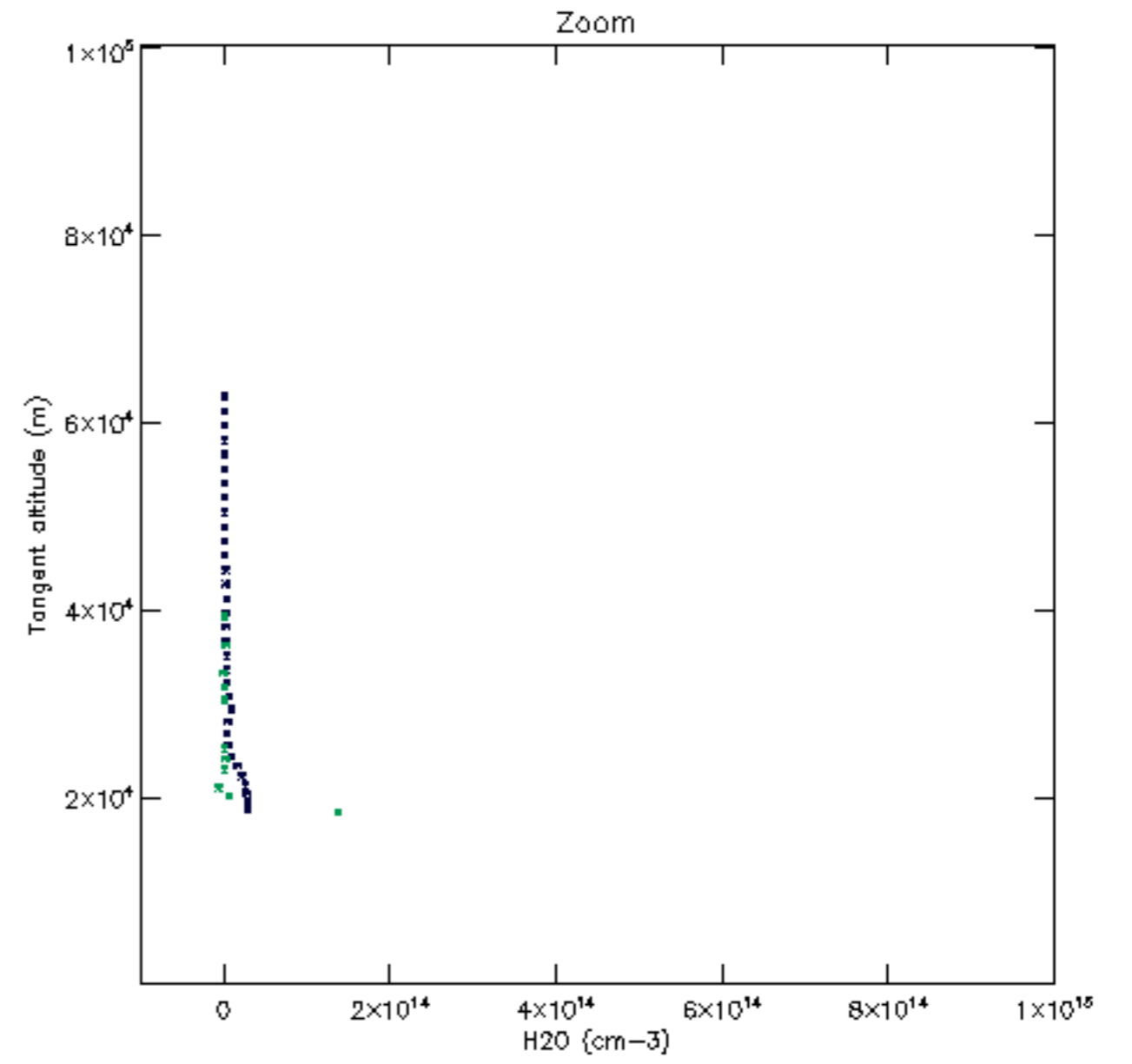
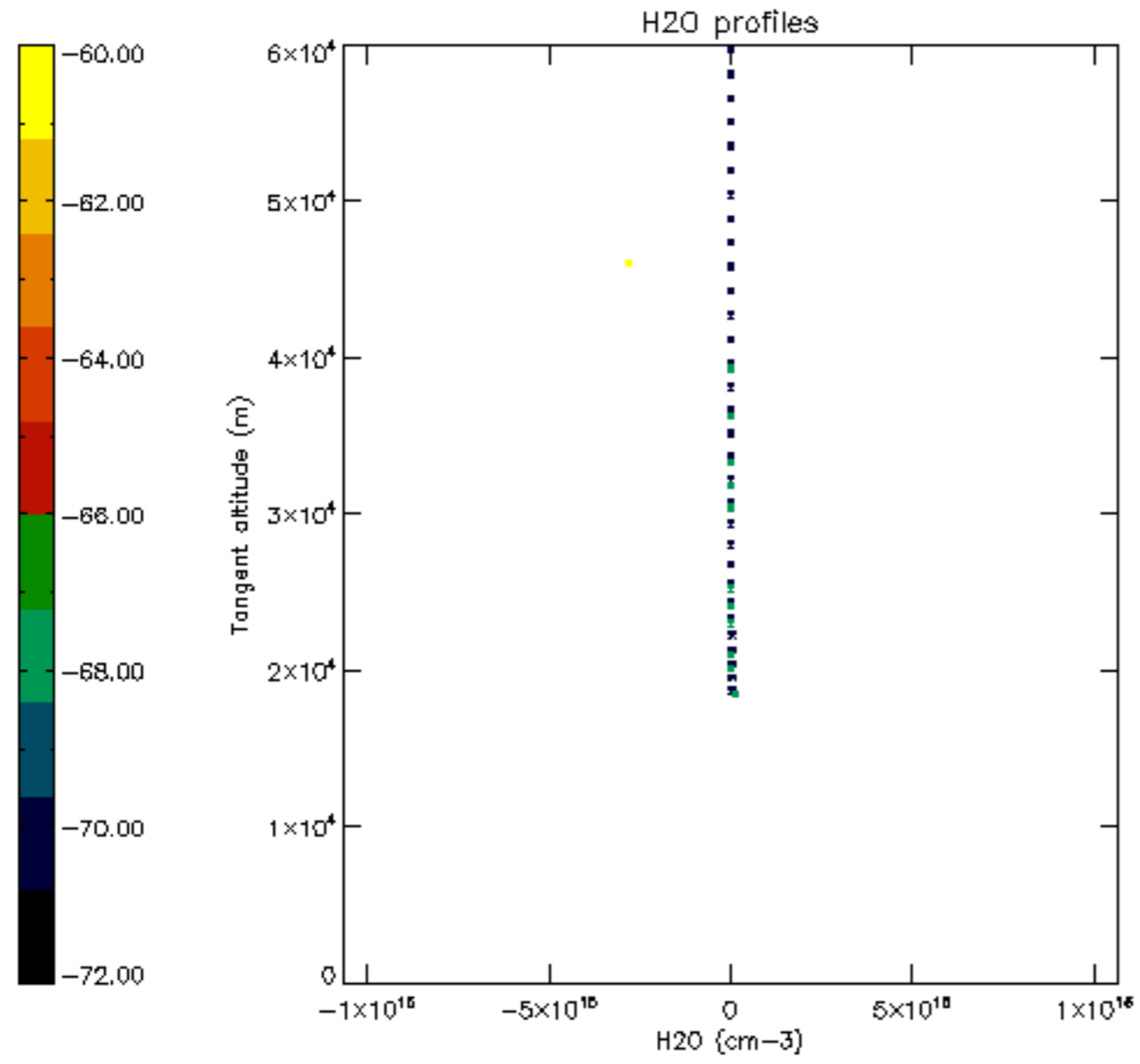


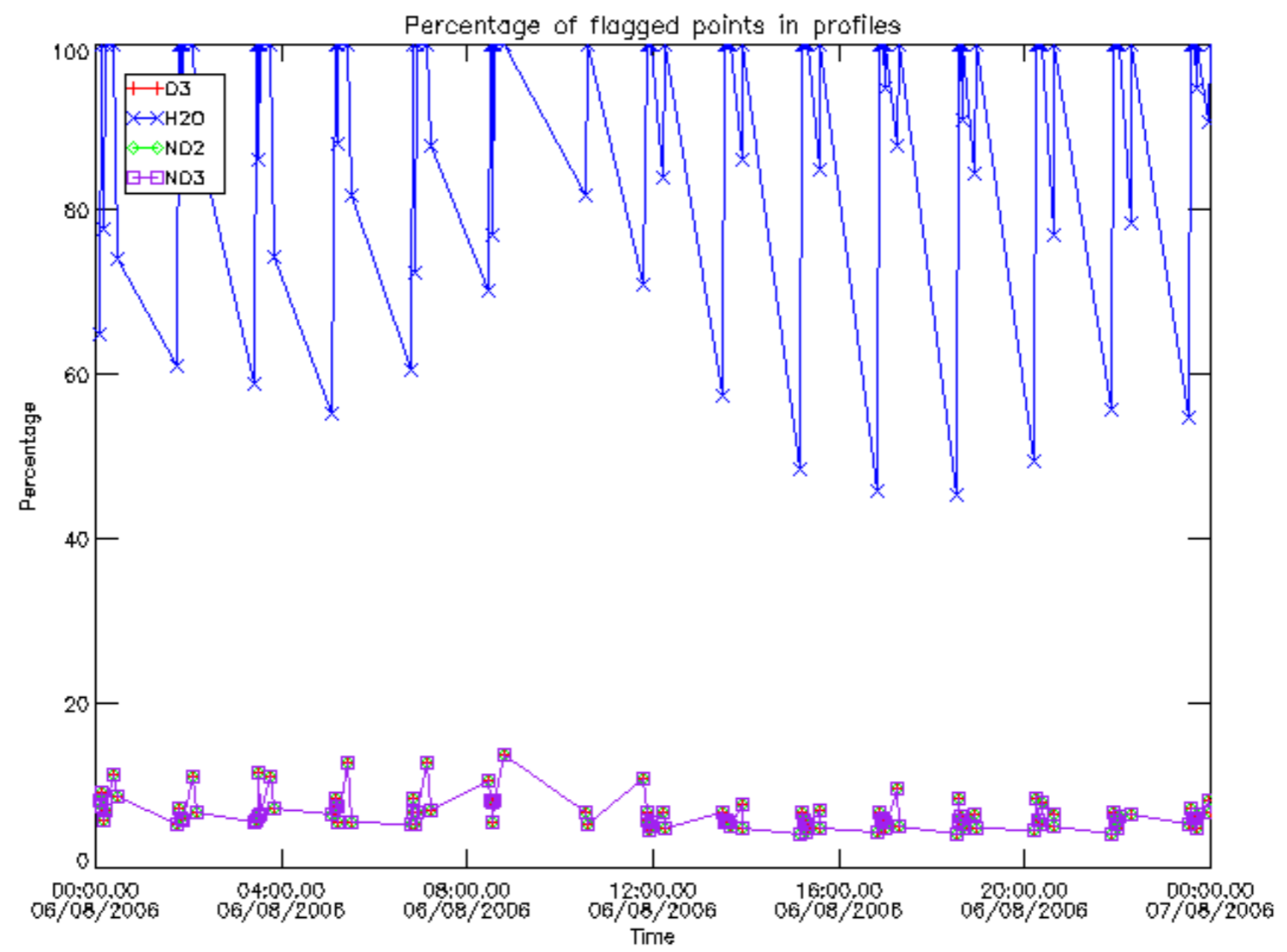




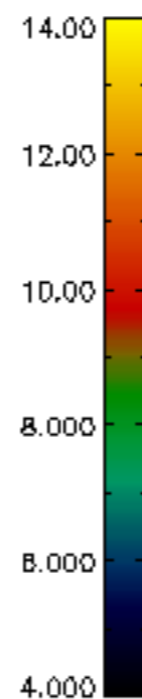
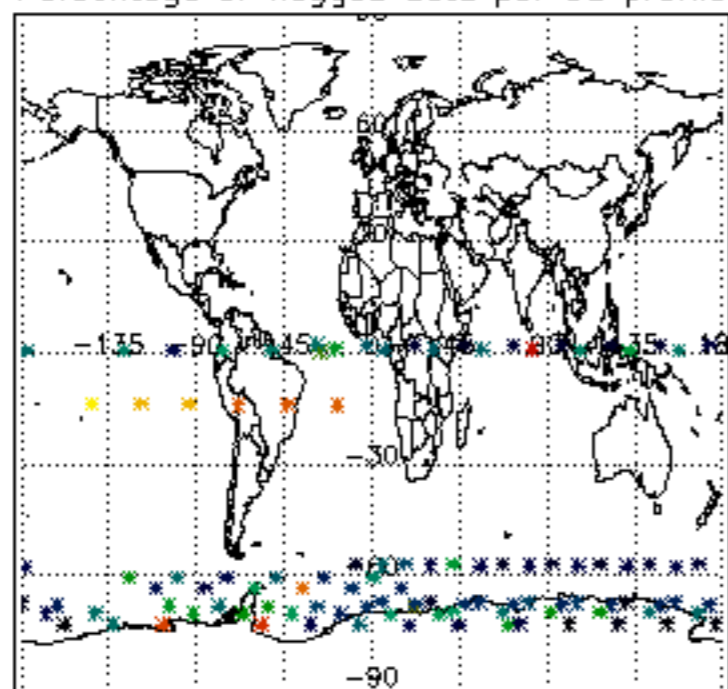




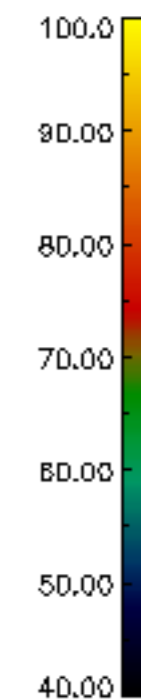
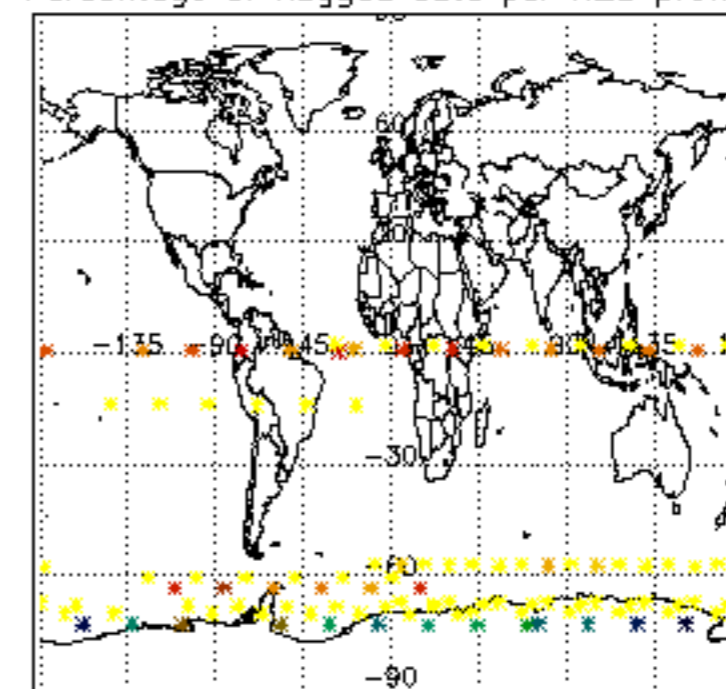




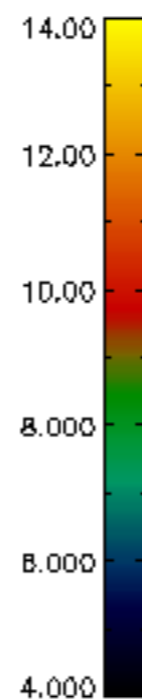
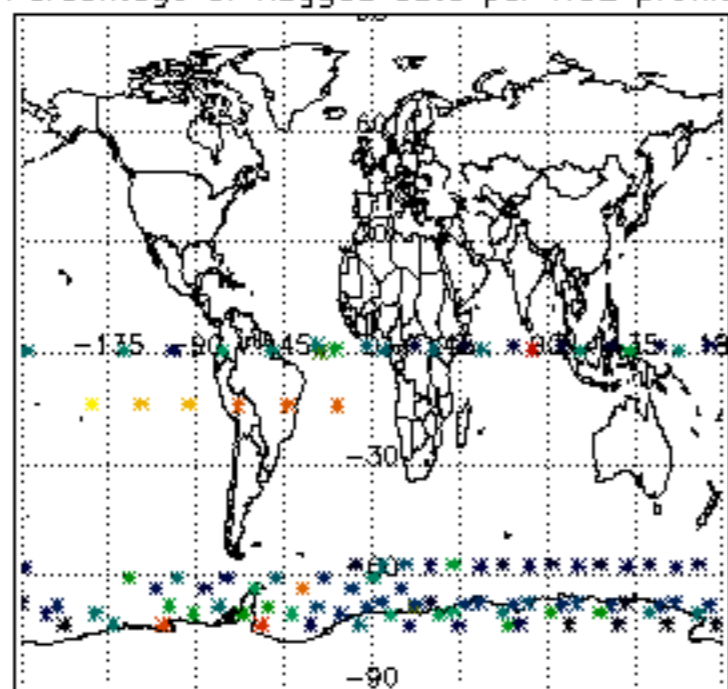
Percentage of flagged data per D3 profile



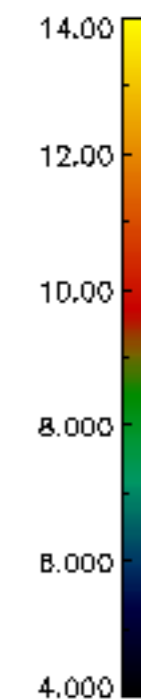
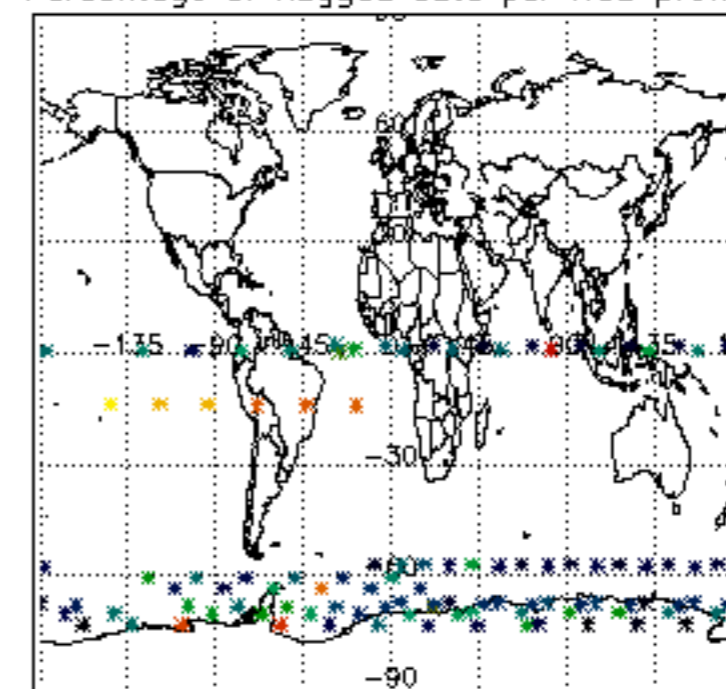
Percentage of flagged data per H2O profile

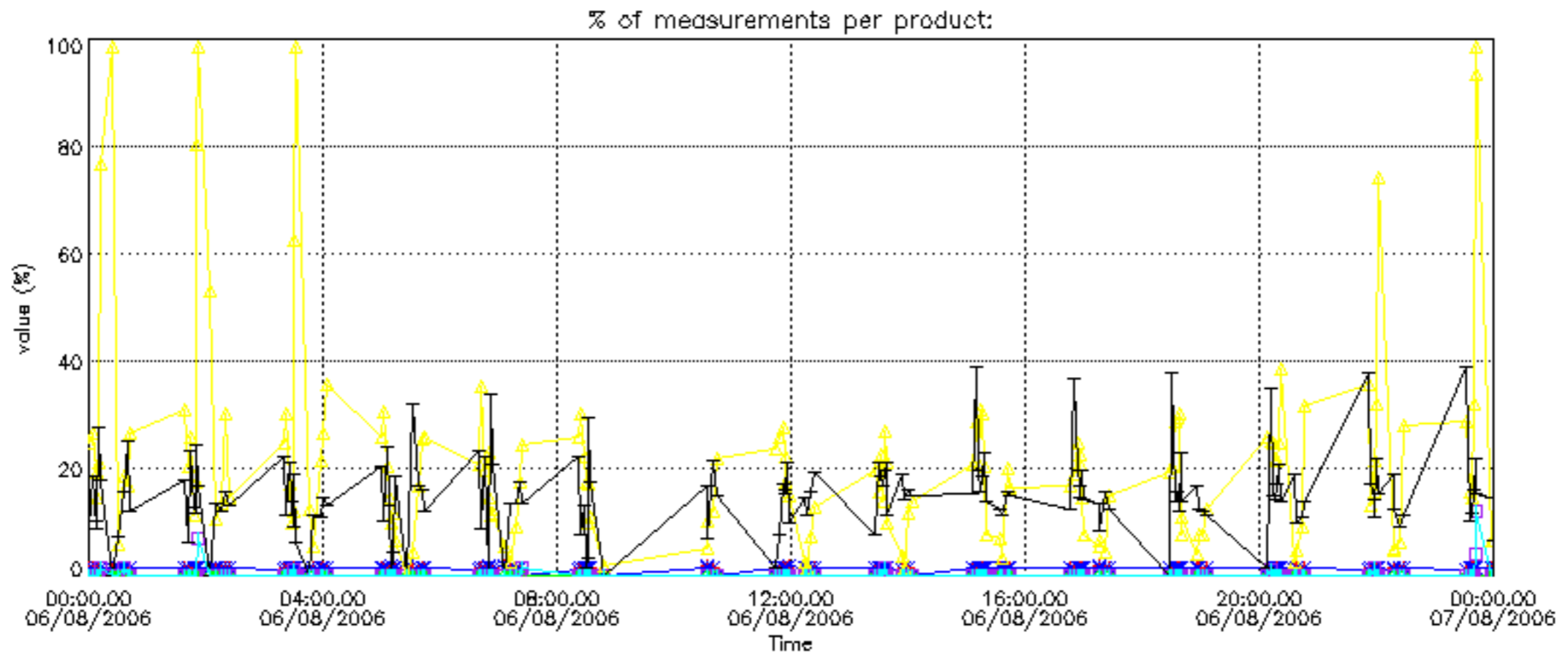


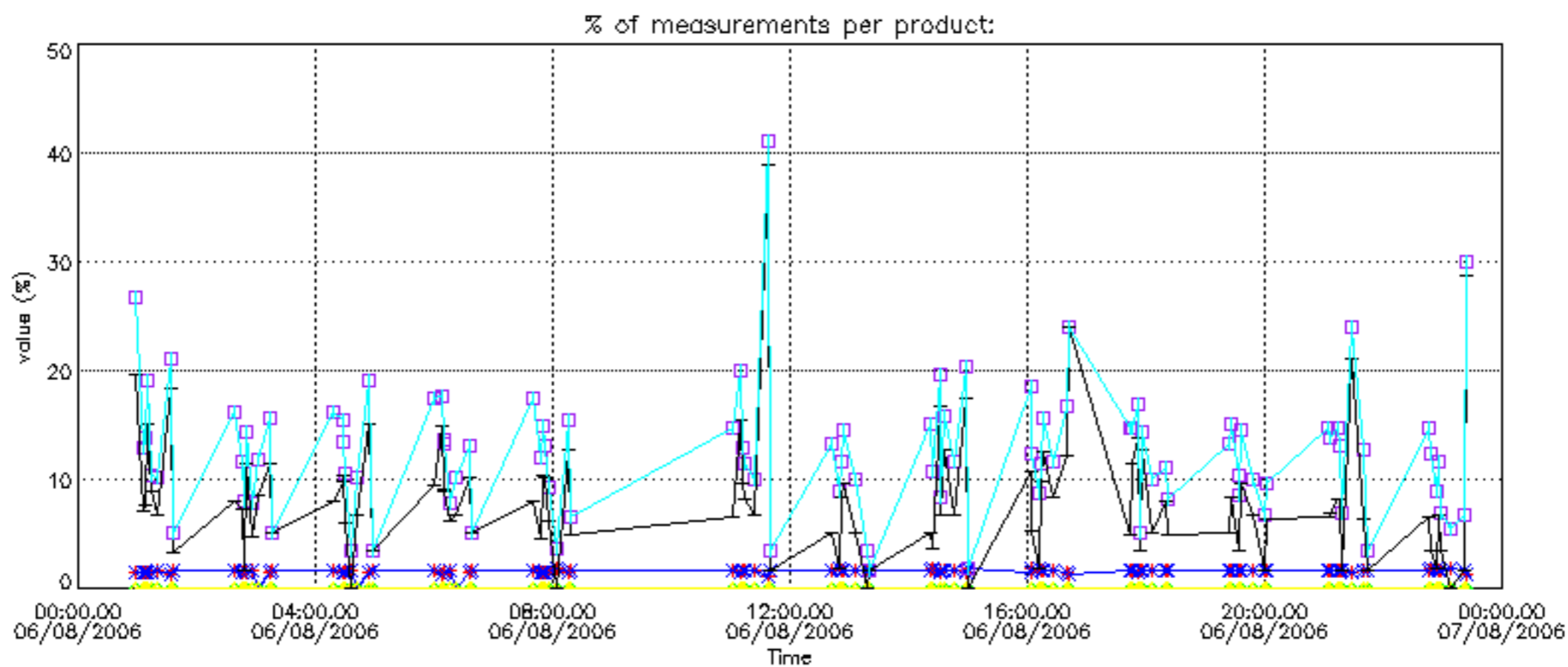
Percentage of flagged data per NO2 profile



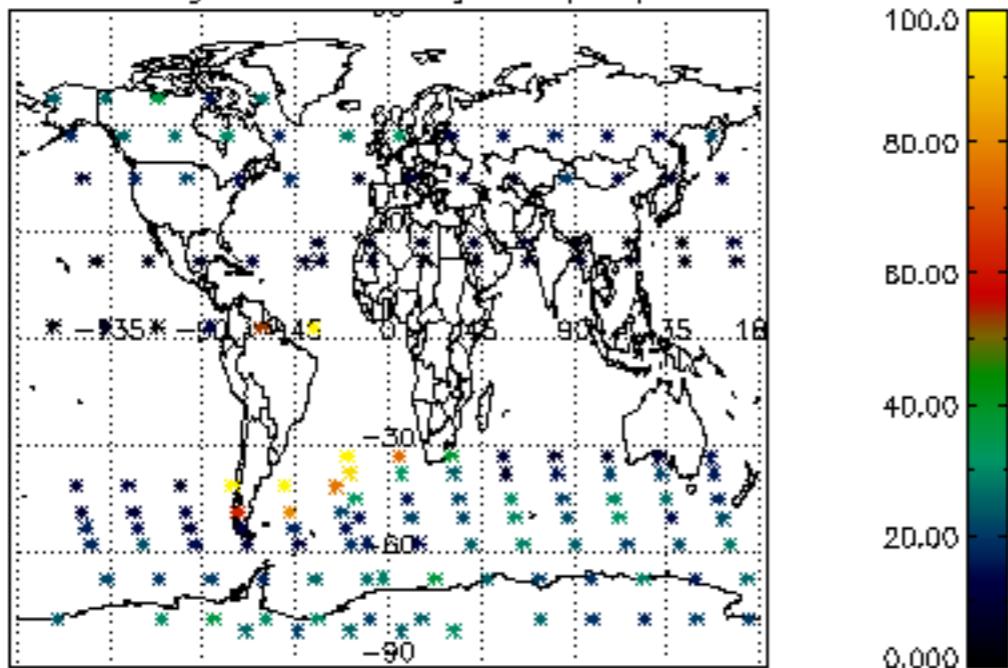
Percentage of flagged data per NO3 profile



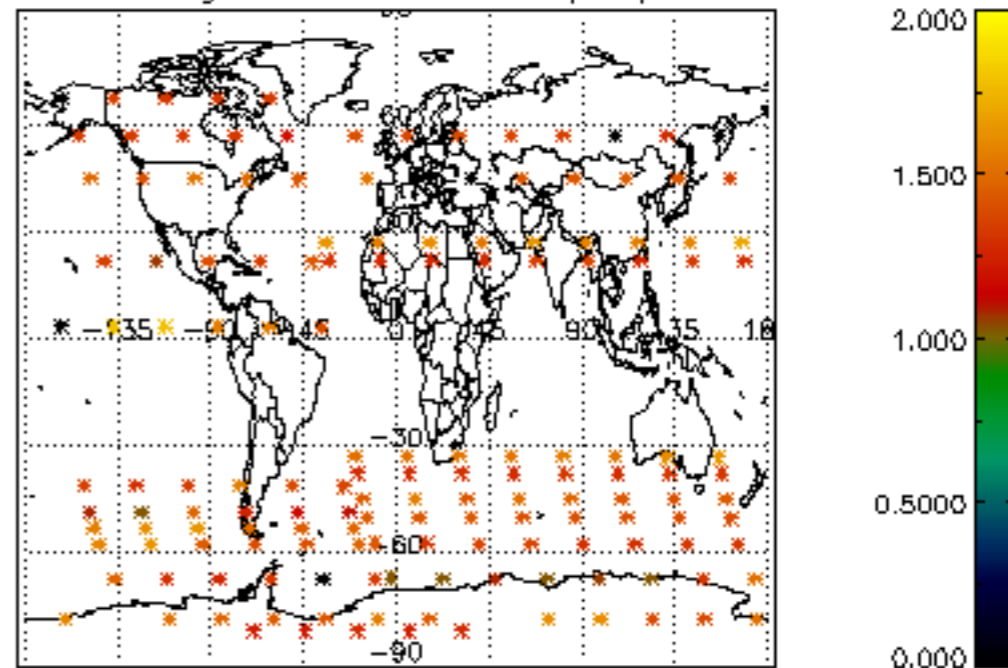




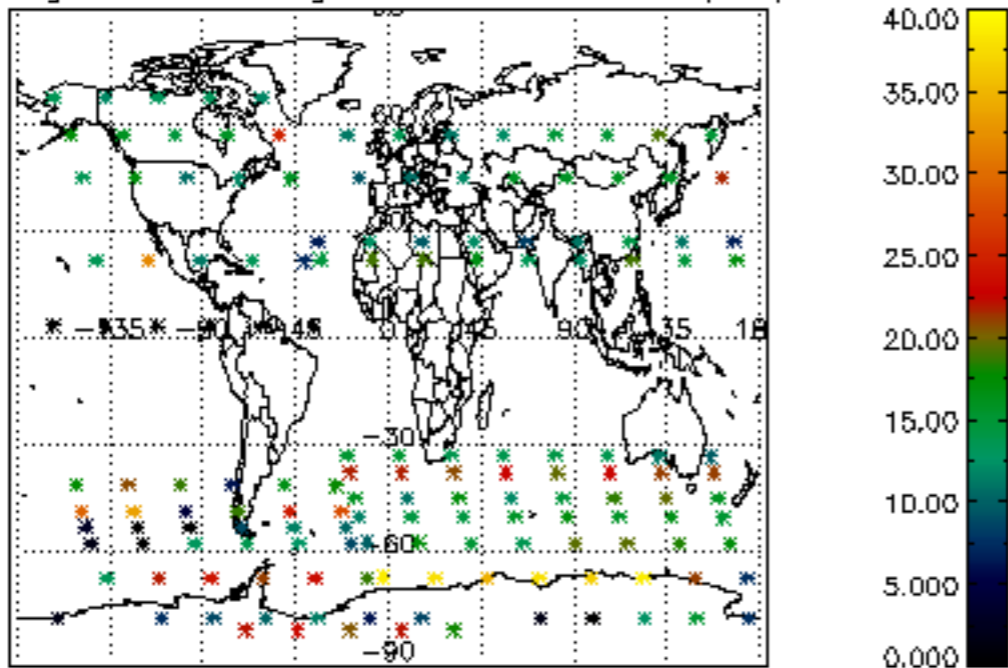
Percentage of cosmic ray hits per profile



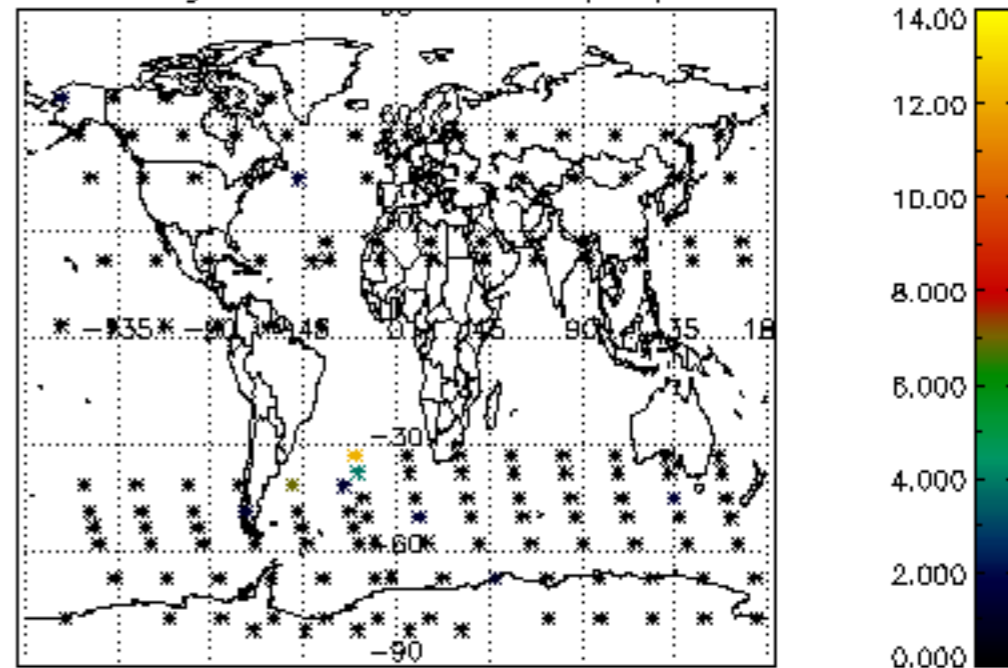
Percentage of datation errors per profile



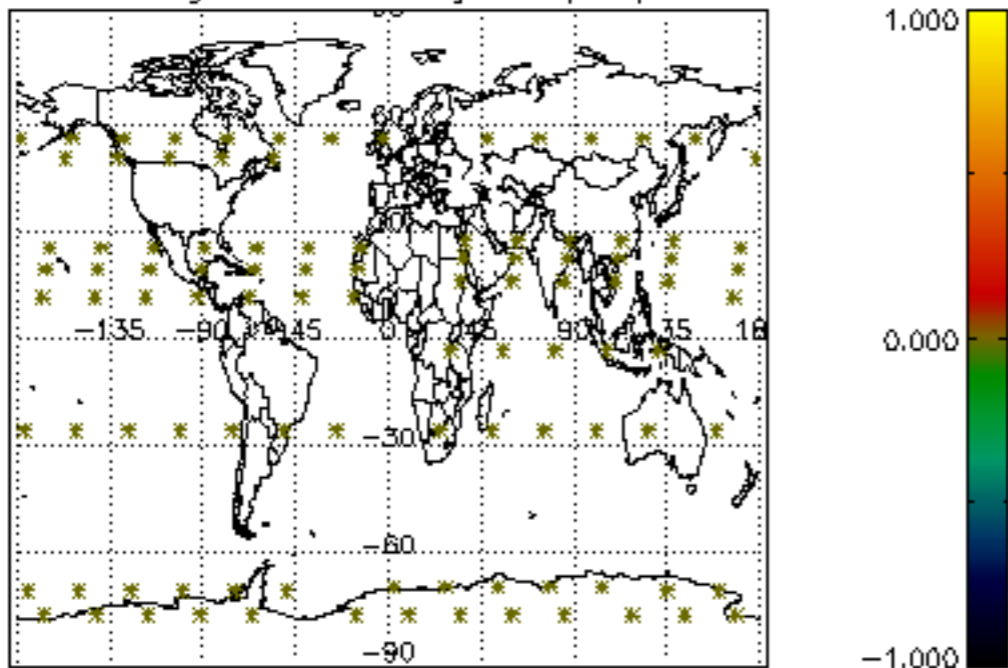
Percentage of star falling outside central band per profile



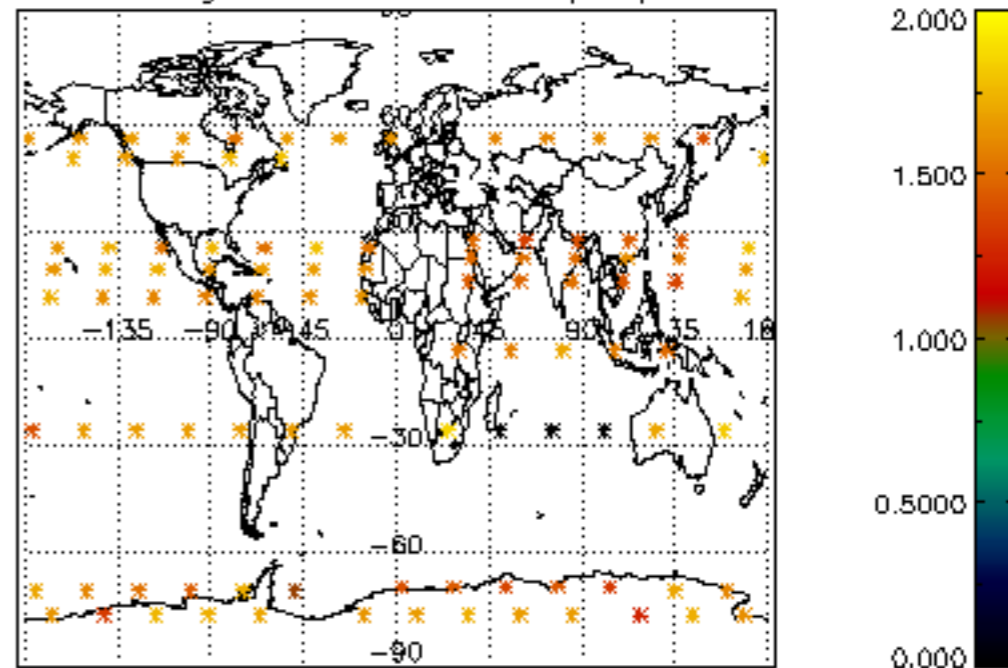
Percentage of saturation errors per profile



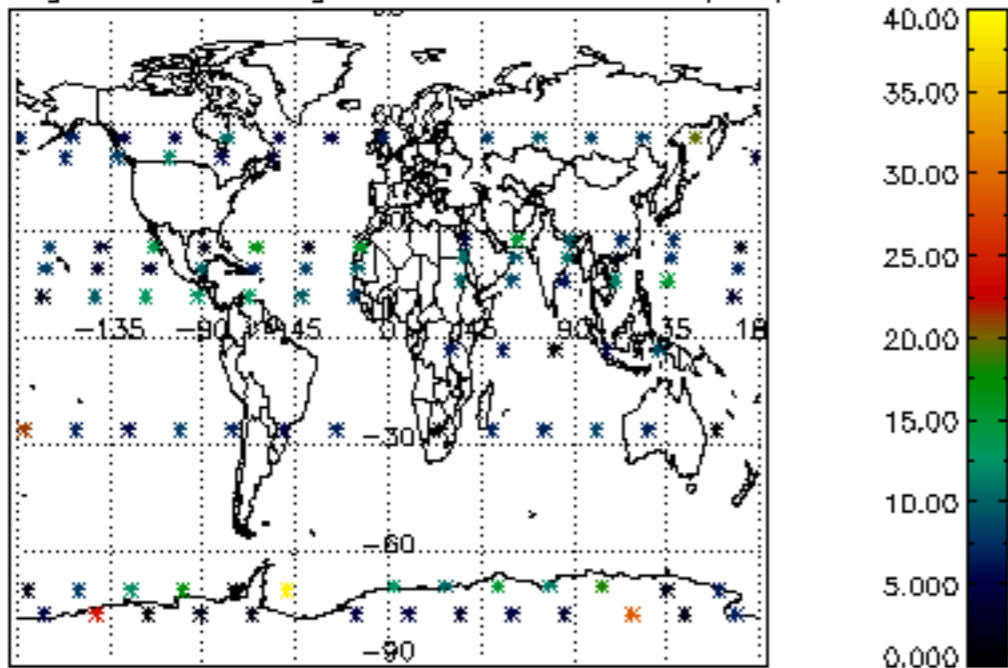
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

