

# 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 13:35:38
Data source version	GOMOS/6.01
Start time of products	02-11-2009 (02NOV2009 00:00:00)
Stop time of products	03-11-2009 (03NOV2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	200
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__2PRFIN20091102_001131_000000522083_00488_40121_7895.N1	02-NOV-2009 00:11:31	Dark	51.500	65	Lam Vel	2.2040	4400.0	103	40121	No
2	GOM_NL__2PRFIN20091102_001508_000000462083_00489_40122_7914.N1	02-NOV-2009 00:15:08	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	40122	No
3	GOM_NL__2PRFIN20091102_002033_000000552083_00489_40122_7915.N1	02-NOV-2009 00:20:33	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	40122	No
4	GOM_NL__2PRFIN20091102_002700_000000422083_00489_40122_7916.N1	02-NOV-2009 00:27:00	Dark	42.000	108	Alp Col	2.6520	15200.	84	40122	No
5	GOM_NL__2PRFIN20091102_004504_000000562083_00489_40122_7917.N1	02-NOV-2009 00:45:04	Twilight	55.500	94	92Alp Cet	2.5260	3100.0	111	40122	No
6	GOM_NL__2PRFIN20091102_004929_000000402083_00489_40122_7918.N1	02-NOV-2009 00:49:29	Bright	39.500	105	6Bet Ari	2.6450	8900.0	79	40122	No
7	GOM_NL__2PRFIN20091102_005352_000000392083_00489_40122_7919.N1	02-NOV-2009 00:53:52	Bright	39.000	173	4Bet Tri	3.0040	8900.0	78	40122	No
8	GOM_NL__2PRFIN20091102_005555_000000422083_00489_40122_7920.N1	02-NOV-2009 00:55:55	Bright	41.500	73	57Gam1And	2.2600	13100.	83	40122	No
9	GOM_NL__2PRFIN20091102_010025_000000412083_00489_40122_7921.N1	02-NOV-2009 01:00:25	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	40122	No
10	GOM_NL__2PRFIN20091102_011648_000000422083_00489_40122_7922.N1	02-NOV-2009 01:16:48	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	40122	No
11	GOM_NL__2PRFIN20091102_011825_000000382083_00489_40122_7923.N1	02-NOV-2009 01:18:25	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	40122	No
12	GOM_NL__2PRFIN20091102_012207_000000372083_00489_40122_7924.N1	02-NOV-2009 01:22:07	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	40122	No
13	GOM_NL__2PRFIN20091102_013052_000000482083_00489_40122_7925.N1	02-NOV-2009 01:30:52	Bright	48.000	51	41Gam1Leo	2.0100	4500.0	96	40122	No
14	GOM_NL__2PRFIN20091102_013405_000000522083_00489_40122_7926.N1	02-NOV-2009 01:34:05	Bright	52.000	22	32Alp Leo	1.3600	15200.	104	40122	No
15	GOM_NL__2PRFIN20091102_015207_000000472083_00489_40122_7927.N1	02-NOV-2009 01:52:07	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	40122	No
16	GOM_NL__2PRFIN20091102_015545_000000472083_00490_40123_7925.N1	02-NOV-2009 01:55:45	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	40123	No
17	GOM_NL__2PRFIN20091102_020110_000000482083_00490_40123_7926.N1	02-NOV-2009 02:01:10	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	40123	No
18	GOM_NL__2PRFIN20091102_020737_000000422083_00490_40123_7927.N1	02-NOV-2009 02:07:37	Dark	42.000	108	Alp Col	2.6520	15200.	84	40123	No
19	GOM_NL__2PRFIN20091102_022540_000000562083_00490_40123_7928.N1	02-NOV-2009 02:25:40	Twilight	55.500	94	92Alp Cet	2.5260	3100.0	111	40123	No
20	GOM_NL__2PRFIN20091102_023005_000000402083_00490_40123_7929.N1	02-NOV-2009 02:30:05	Bright	40.000	105	6Bet Ari	2.6450	8900.0	80	40123	No
21	GOM_NL__2PRFIN20091102_023428_000000402083_00490_40123_7930.N1	02-NOV-2009 02:34:28	Bright	40.000	173	4Bet Tri	3.0040	8900.0	80	40123	No
22	GOM_NL__2PRFIN20091102_023630_000000402083_00490_40123_7931.N1	02-NOV-2009 02:36:30	Bright	40.000	73	57Gam1And	2.2600	13100.	80	40123	No
23	GOM_NL__2PRFIN20091102_024101_000000412083_00490_40123_7932.N1	02-NOV-2009 02:41:01	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	40123	No
24	GOM_NL__2PRFIN20091102_025724_000000442083_00490_40123_7933.N1	02-NOV-2009 02:57:24	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	40123	No
25	GOM_NL__2PRFIN20091102_025901_000000562083_00490_40123_7934.N1	02-NOV-2009 02:59:01	Bright	56.000	82	48Bet UMa	2.3650	10600.	112	40123	No
26	GOM_NL__2PRFIN20091102_030243_000000382083_00490_40123_7935.N1	02-NOV-2009 03:02:43	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	40123	No
27	GOM_NL__2PRFIN20091102_031129_000000532083_00490_40123_7936.N1	02-NOV-2009 03:11:29	Bright	52.500	51	41Gam1Leo	2.0100	4500.0	105	40123	No
28	GOM_NL__2PRFIN20091102_031442_000000562083_00490_40123_7937.N1	02-NOV-2009 03:14:42	Bright	55.500	22	32Alp Leo	1.3600	15200.	111	40123	No
29	GOM_NL__2PRFIN20091102_033244_000000532083_00490_40123_7938.N1	02-NOV-2009 03:32:44	Dark	52.500	65	Lam Vel	2.2040	4400.0	105	40123	No
30	GOM_NL__2PRFIN20091102_033622_000000472083_00491_40124_7934.N1	02-NOV-2009 03:36:22	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40124	No
31	GOM_NL__2PRFIN20091102_034147_000000562083_00491_40124_7935.N1	02-NOV-2009 03:41:47	Dark	55.500	2	Alp Car	-0.73600	7000.0	111	40124	No
32	GOM_NL__2PRFIN20091102_034814_000000432083_00491_40124_7936.N1	02-NOV-2009 03:48:14	Dark	43.000	108	Alp Col	2.6520	15200.	86	40124	No
33	GOM_NL__2PRFIN20091102_040615_000000562083_00491_40124_7937.N1	02-NOV-2009 04:06:15	Twilight	56.000	94	92Alp Cet	2.5260	3100.0	112	40124	No
34	GOM_NL__2PRFIN20091102_041041_000000402083_00491_40124_7938.N1	02-NOV-2009 04:10:41	Bright	39.500	105	6Bet Ari	2.6450	8900.0	79	40124	No
35	GOM_NL__2PRFIN20091102_041504_000000392083_00491_40124_7939.N1	02-NOV-2009 04:15:04	Bright	39.000	173	4Bet Tri	3.0040	8900.0	78	40124	No
36	GOM_NL__2PRFIN20091102_041706_000000412083_00491_40124_7940.N1	02-NOV-2009 04:17:06	Bright	40.500	73	57Gam1And	2.2600	13100.	81	40124	No
37	GOM_NL__2PRFIN20091102_042136_000000412083_00491_40124_7941.N1	02-NOV-2009 04:21:36	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	40124	No
38	GOM_NL__2PRFIN20091102_043800_000000402083_00491_40124_7942.N1	02-NOV-2009 04:38:00	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	40124	No
39	GOM_NL__2PRFIN20091102_043937_000000402083_00491_40124_7943.N1	02-NOV-2009 04:39:37	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	40124	No
40	GOM_NL__2PRFIN20091102_044319_000000392083_00491_40124_7944.N1	02-NOV-2009 04:43:19	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	40124	No
41	GOM_NL__2PRFIN20091102_045205_000000652083_00491_40124_7945.N1	02-NOV-2009 04:52:05	Bright	65.000	51	41Gam1Leo	2.0100	4500.0	130	40124	No
42	GOM_NL__2PRFIN20091102_045518_000000552083_00491_40124_7946.N1	02-NOV-2009 04:55:18	Bright	54.500	22	32Alp Leo	1.3600	15200.	109	40124	No



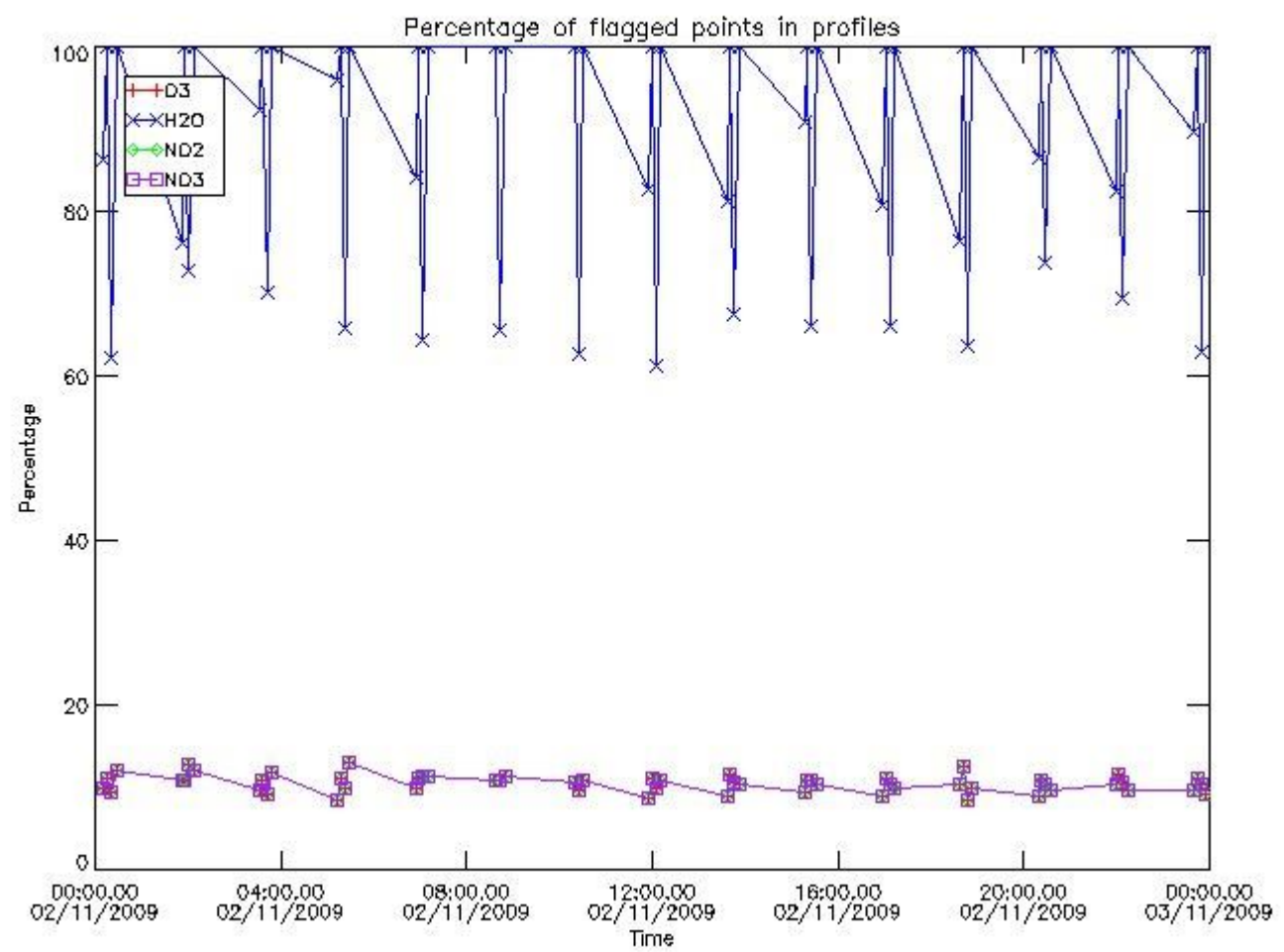


161	GOM_NL__2PRFIN20091102_192227_000000402083_00500_40133_8079.N1	02-NOV-2009 19:22:27	Bright	39.500	73	57Gam1And	2.2600	13100.	79	40133	No
162	GOM_NL__2PRFIN20091102_192655_000000422083_00500_40133_8080.N1	02-NOV-2009 19:26:55	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	40133	No
163	GOM_NL__2PRFIN20091102_194323_000000402083_00500_40133_8081.N1	02-NOV-2009 19:43:23	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	40133	No
164	GOM_NL__2PRFIN20091102_194500_000000402083_00500_40133_8082.N1	02-NOV-2009 19:45:00	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	40133	No
165	GOM_NL__2PRFIN20091102_194843_000000402083_00500_40133_8083.N1	02-NOV-2009 19:48:43	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	40133	No
166	GOM_NL__2PRFIN20091102_195732_000000522083_00500_40133_8084.N1	02-NOV-2009 19:57:32	Bright	51.500	51	41Gam1Leo	2.0100	4500.0	103	40133	No
167	GOM_NL__2PRFIN20091102_201852_000000572083_00500_40133_8082.N1	02-NOV-2009 20:18:52	Dark	56.500	65	Lam Vel	2.2040	4400.0	113	40133	No
168	GOM_NL__2PRFIN20091102_202231_000000472083_00501_40134_8083.N1	02-NOV-2009 20:22:31	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	40134	No
169	GOM_NL__2PRFIN20091102_202754_000000602083_00501_40134_8084.N1	02-NOV-2009 20:27:54	Dark	59.500	2	Alp Car	-0.73600	7000.0	119	40134	No
170	GOM_NL__2PRFIN20091102_203423_000000532083_00501_40134_8085.N1	02-NOV-2009 20:34:23	Dark	53.000	108	Alp Col	2.6520	15200.	106	40134	No
171	GOM_NL__2PRFIN20091102_204602_000000432083_00501_40134_8086.N1	02-NOV-2009 20:46:02	Straylight	43.000	165	34Gam Eri	2.9500	3200.0	86	40134	No
172	GOM_NL__2PRFIN20091102_205212_000000542083_00501_40134_8087.N1	02-NOV-2009 20:52:12	Twilight_stray	54.000	94	92Alp Cet	2.5260	3100.0	108	40134	No
173	GOM_NL__2PRFIN20091102_205638_000000382083_00501_40134_8088.N1	02-NOV-2009 20:56:38	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	40134	No
174	GOM_NL__2PRFIN20091102_210100_000000572083_00501_40134_8089.N1	02-NOV-2009 21:01:00	Bright	57.000	173	4Bet Tri	3.0040	8900.0	114	40134	No
175	GOM_NL__2PRFIN20091102_210303_000000372083_00501_40134_8090.N1	02-NOV-2009 21:03:03	Bright	36.500	73	57Gam1And	2.2600	13100.	73	40134	No
176	GOM_NL__2PRFIN20091102_210731_000000412083_00501_40134_8091.N1	02-NOV-2009 21:07:31	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	40134	No
177	GOM_NL__2PRFIN20091102_212359_000000562083_00501_40134_8092.N1	02-NOV-2009 21:23:59	Bright	56.000	36	50Alp UMa	1.8000	6300.0	112	40134	No
178	GOM_NL__2PRFIN20091102_212535_000000392083_00501_40134_8093.N1	02-NOV-2009 21:25:35	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	40134	No
179	GOM_NL__2PRFIN20091102_212919_000000392083_00501_40134_8094.N1	02-NOV-2009 21:29:19	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	40134	No
180	GOM_NL__2PRFIN20091102_213809_000000702083_00501_40134_8095.N1	02-NOV-2009 21:38:09	Bright	70.000	51	41Gam1Leo	2.0100	4500.0	140	40134	No
181	GOM_NL__2PRFIN20091102_214124_000000622083_00501_40134_8096.N1	02-NOV-2009 21:41:24	Bright	62.000	22	32Alp Leo	1.3600	15200.	124	40134	No
182	GOM_NL__2PRFIN20091102_215929_000000492084_00001_40135_8093.N1	02-NOV-2009 21:59:29	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	40135	No
183	GOM_NL__2PRFIN20091102_220308_000000442084_00001_40135_8094.N1	02-NOV-2009 22:03:08	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	40135	No
184	GOM_NL__2PRFIN20091102_220830_000000482084_00001_40135_8095.N1	02-NOV-2009 22:08:30	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	40135	No
185	GOM_NL__2PRFIN20091102_221500_000000532084_00001_40135_8096.N1	02-NOV-2009 22:15:00	Dark	53.000	108	Alp Col	2.6520	15200.	106	40135	No
186	GOM_NL__2PRFIN20091102_222638_000000432084_00001_40135_8097.N1	02-NOV-2009 22:26:38	Straylight	43.000	165	34Gam Eri	2.9500	3200.0	86	40135	No
187	GOM_NL__2PRFIN20091102_223248_000000552084_00001_40135_8098.N1	02-NOV-2009 22:32:48	Twilight_stray	54.500	94	92Alp Cet	2.5260	3100.0	109	40135	No
188	GOM_NL__2PRFIN20091102_223714_000000382084_00001_40135_8099.N1	02-NOV-2009 22:37:14	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	40135	No
189	GOM_NL__2PRFIN20091102_224136_000000382084_00001_40135_8100.N1	02-NOV-2009 22:41:36	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	40135	No
190	GOM_NL__2PRFIN20091102_224339_000000362084_00001_40135_8101.N1	02-NOV-2009 22:43:39	Bright	36.000	73	57Gam1And	2.2600	13100.	72	40135	No
191	GOM_NL__2PRFIN20091102_224806_000000422084_00001_40135_8102.N1	02-NOV-2009 22:48:06	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	40135	No
192	GOM_NL__2PRFIN20091102_230434_000000412084_00001_40135_8103.N1	02-NOV-2009 23:04:34	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	40135	No
193	GOM_NL__2PRFIN20091102_230611_000000372084_00001_40135_8104.N1	02-NOV-2009 23:06:11	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	40135	No
194	GOM_NL__2PRFIN20091102_230955_000000382084_00001_40135_8105.N1	02-NOV-2009 23:09:55	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	40135	No
195	GOM_NL__2PRFIN20091102_231845_000000512084_00001_40135_8106.N1	02-NOV-2009 23:18:45	Bright	51.000	51	41Gam1Leo	2.0100	4500.0	102	40135	No
196	GOM_NL__2PRFIN20091102_232201_000000612084_00001_40135_8107.N1	02-NOV-2009 23:22:01	Bright	61.000	22	32Alp Leo	1.3600	15200.	122	40135	No
197	GOM_NL__2PRFIN20091102_234006_000000592084_00002_40136_8104.N1	02-NOV-2009 23:40:06	Dark	58.500	65	Lam Vel	2.2040	4400.0	117	40136	No
198	GOM_NL__2PRFIN20091102_234345_000000462084_00002_40136_8105.N1	02-NOV-2009 23:43:45	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	40136	No
199	GOM_NL__2PRFIN20091102_234907_000000492084_00002_40136_8106.N1	02-NOV-2009 23:49:07	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	40136	No
200	GOM_NL__2PRFIN20091102_235537_000000552084_00002_40136_8107.N1	02-NOV-2009 23:55:37	Dark	55.000	108	Alp Col	2.6520	15200.	110	40136	No

### 3. Quality information per product

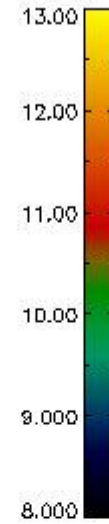
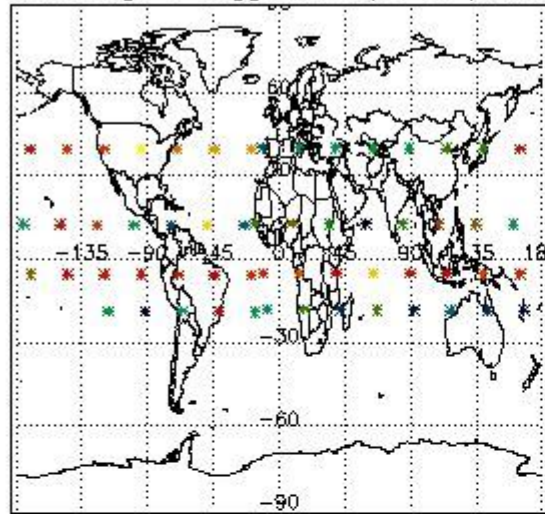
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

#### 3.1 Plot quality information per product (time dependant)

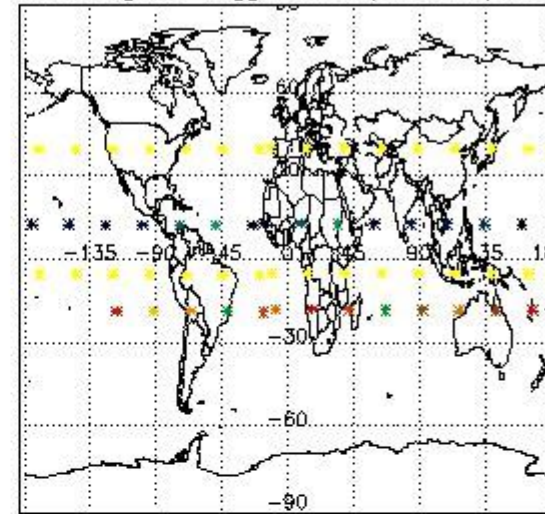


*3.2 Plot quality information per product (world map)*

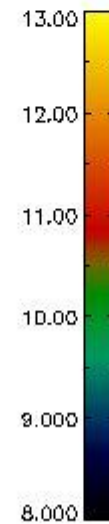
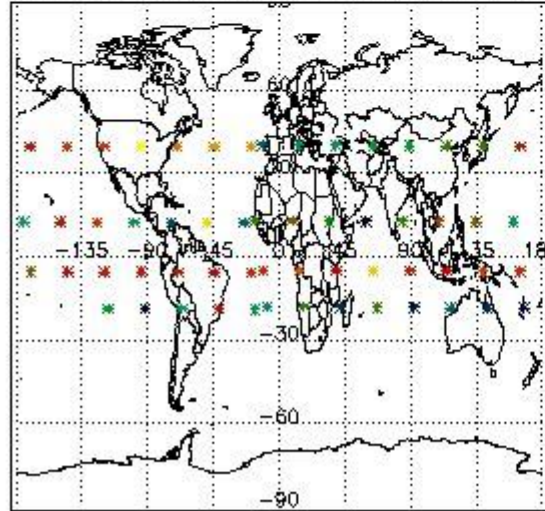
Percentage of flagged data per O3 profile



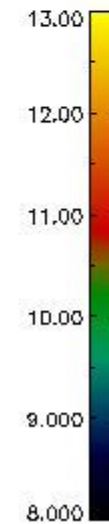
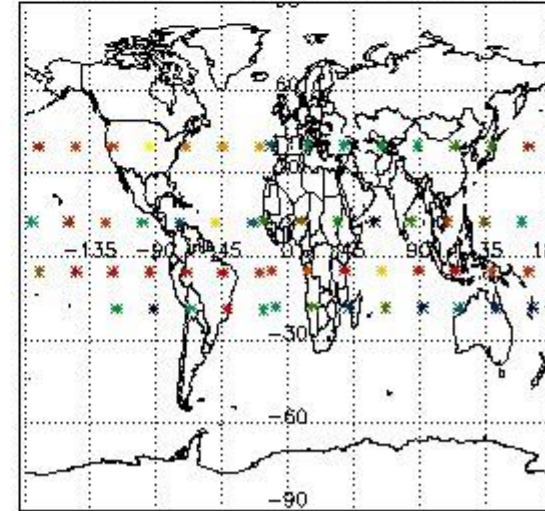
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

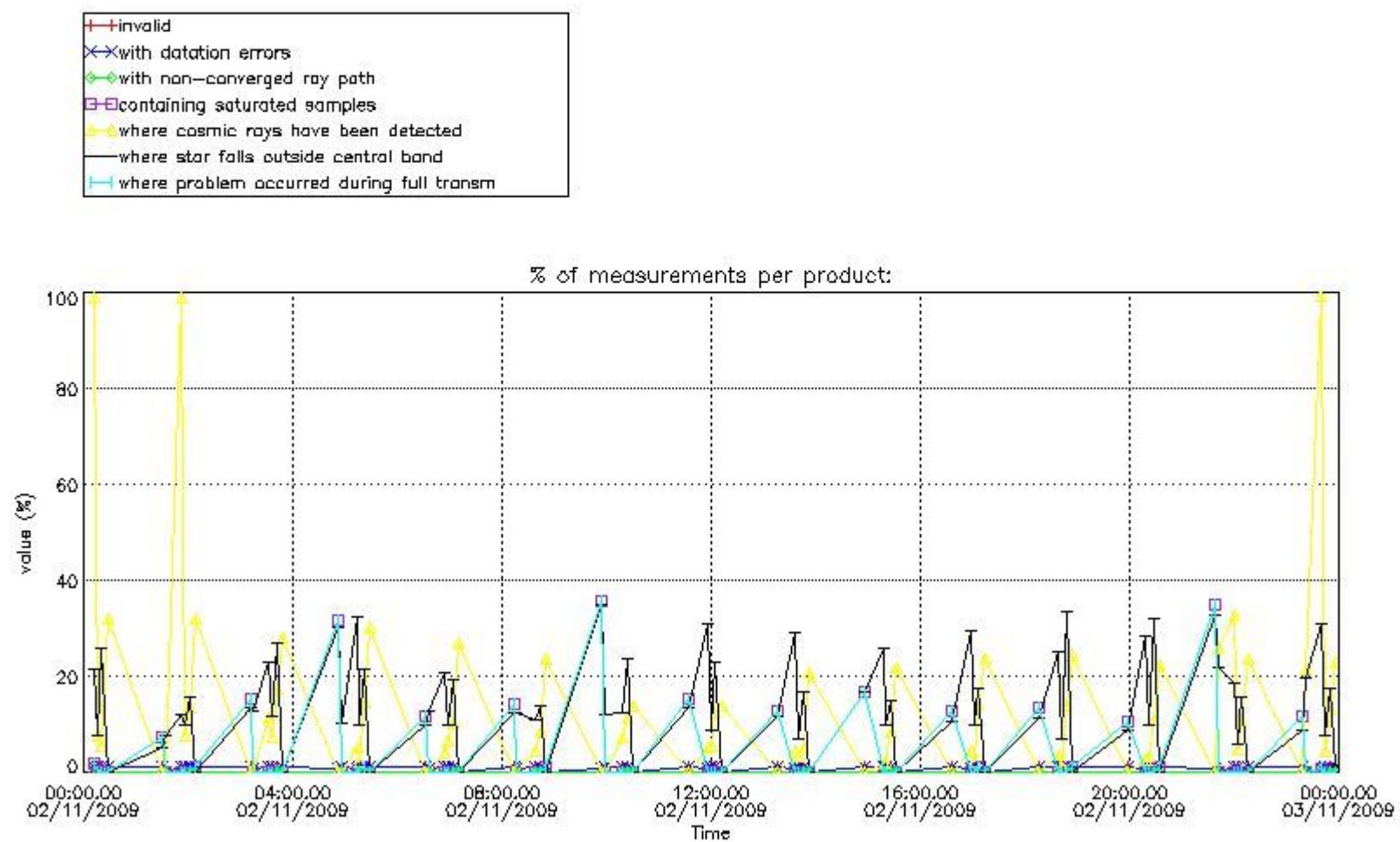


#### 4. Level 1 quality information per product

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

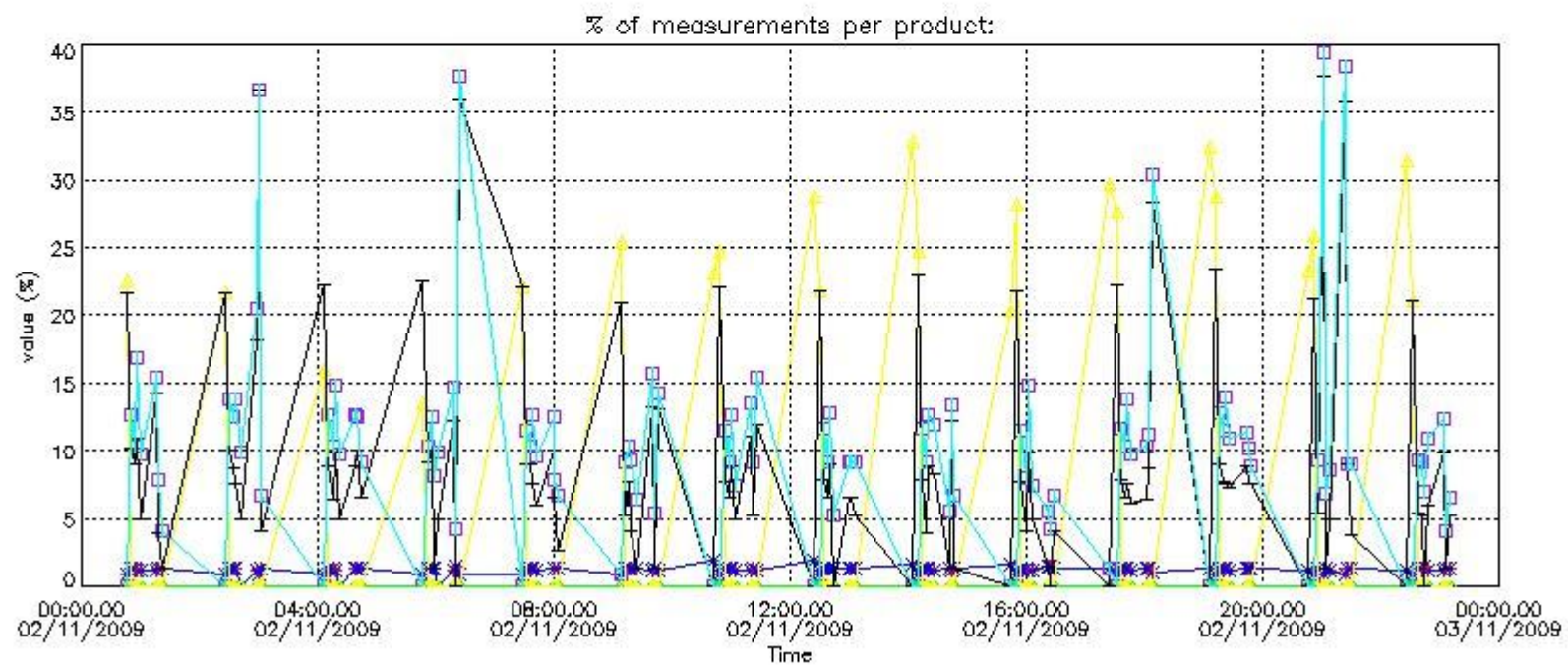
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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



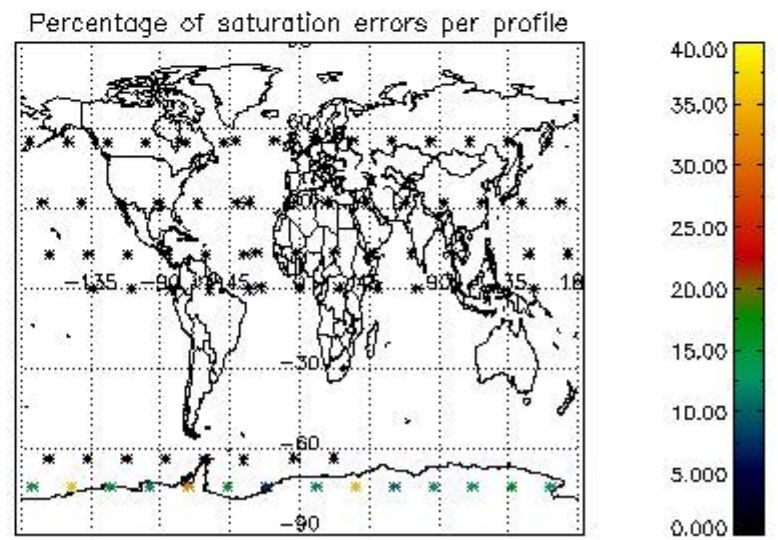
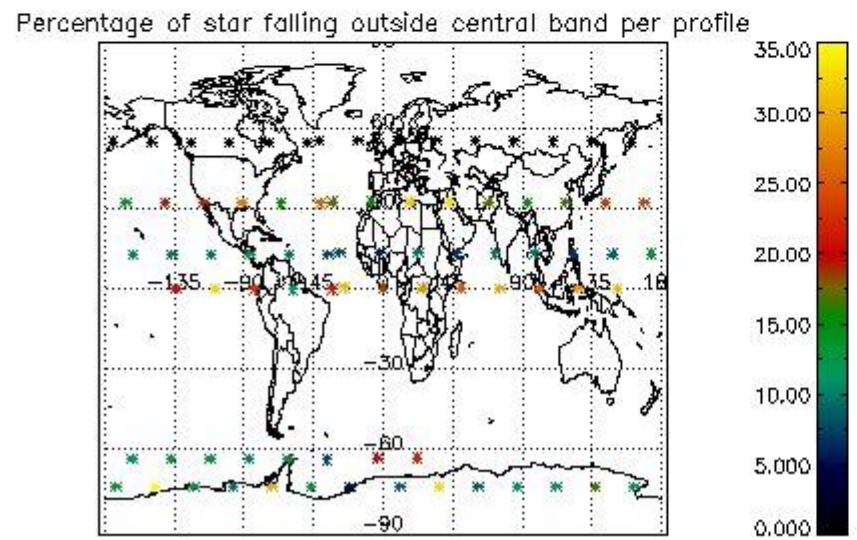
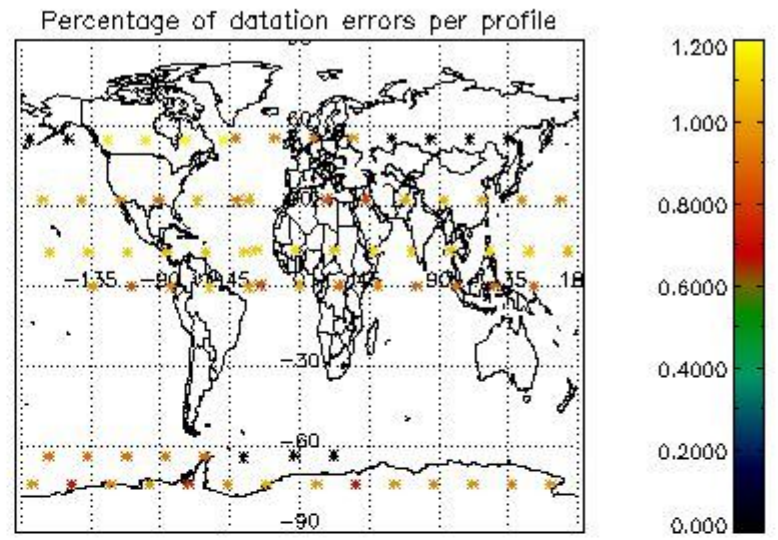
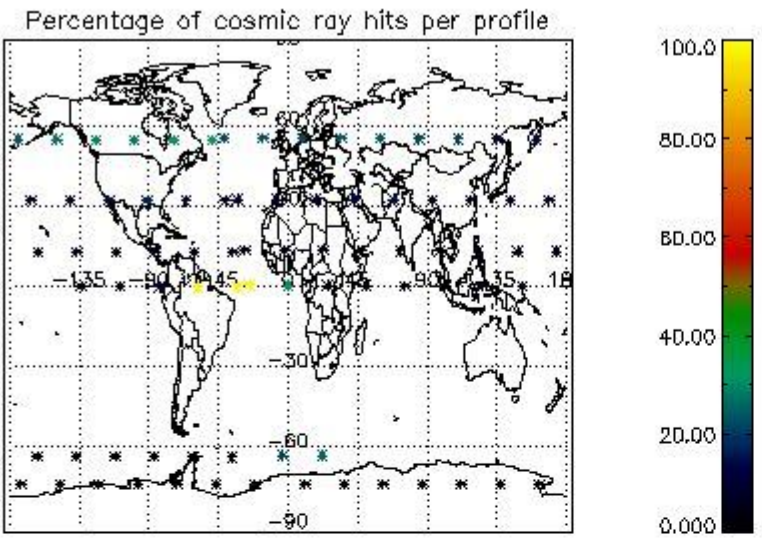
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



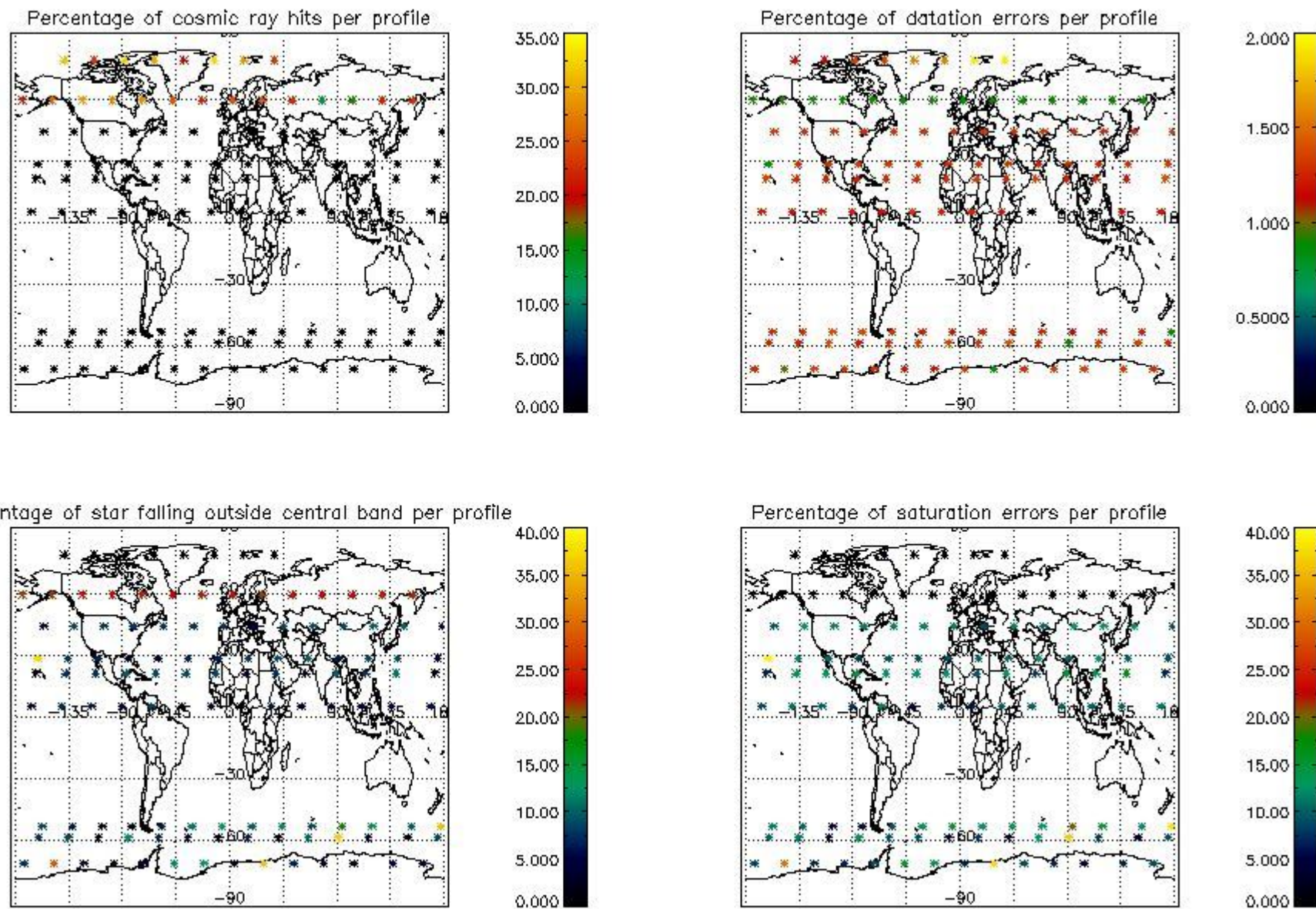


*4.2 Plot quality information per product coming from level 1b processing (world map)*

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



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



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

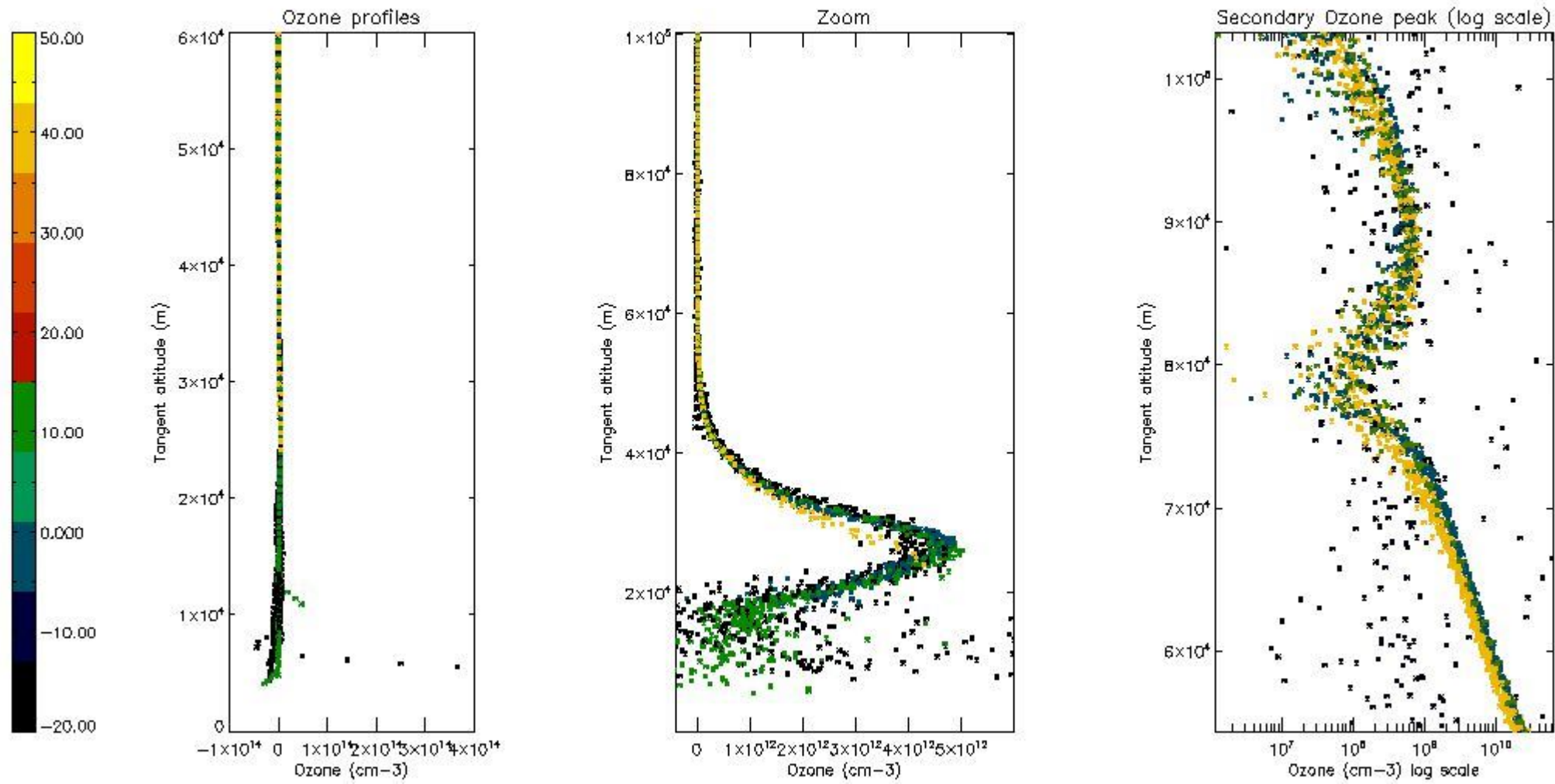
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	19

STD < 10	15
STD < 5	12

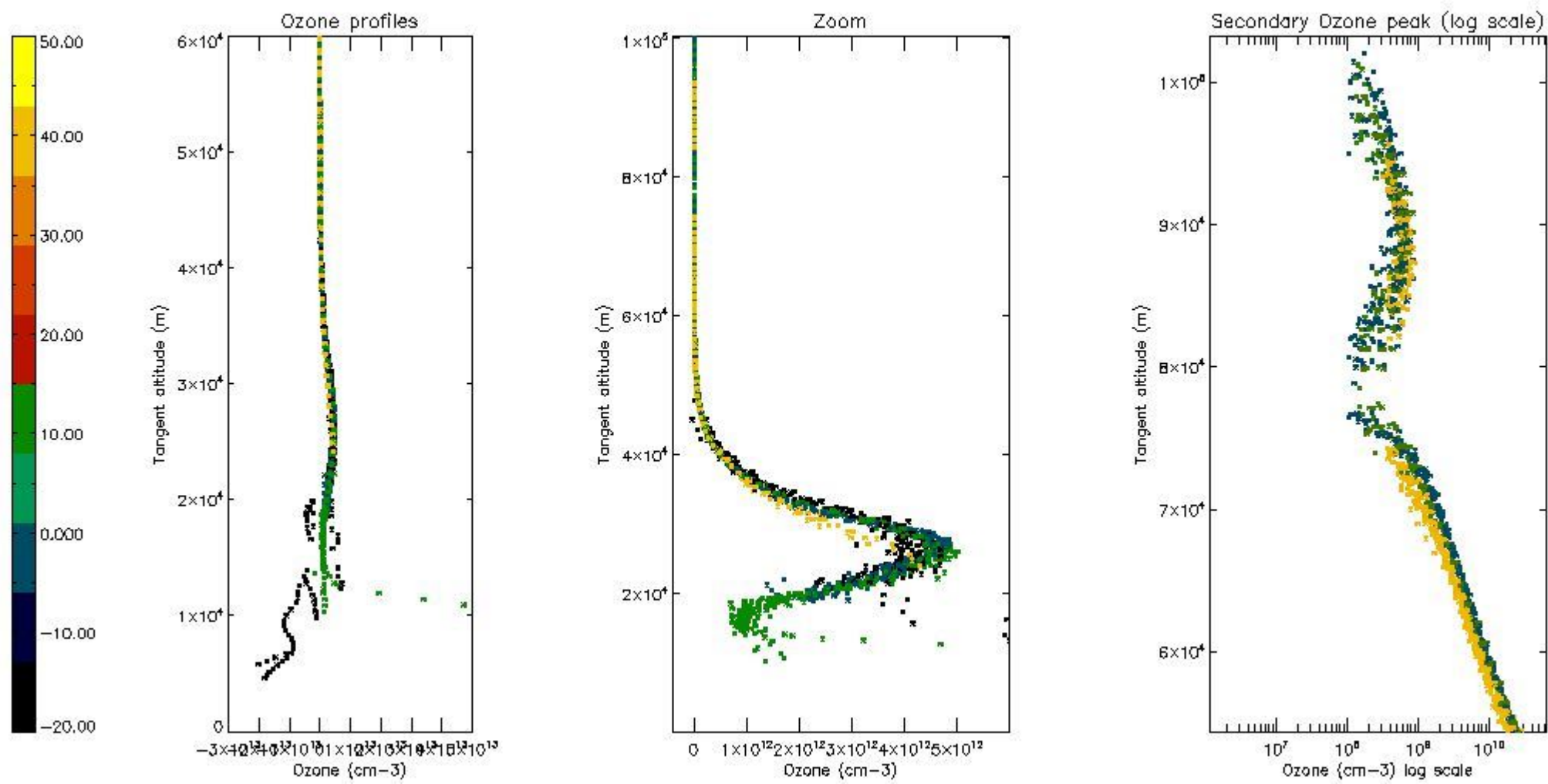
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



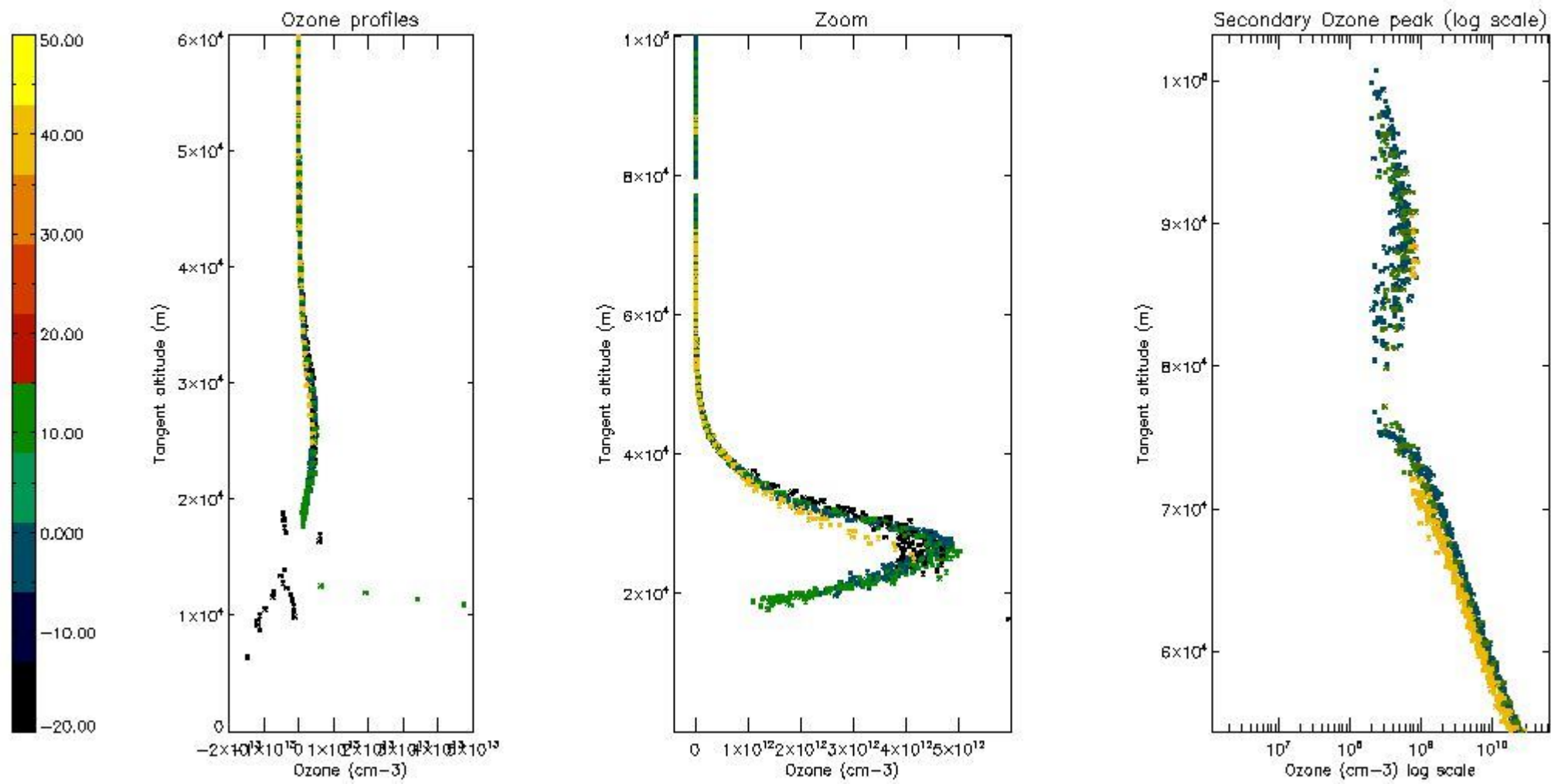
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



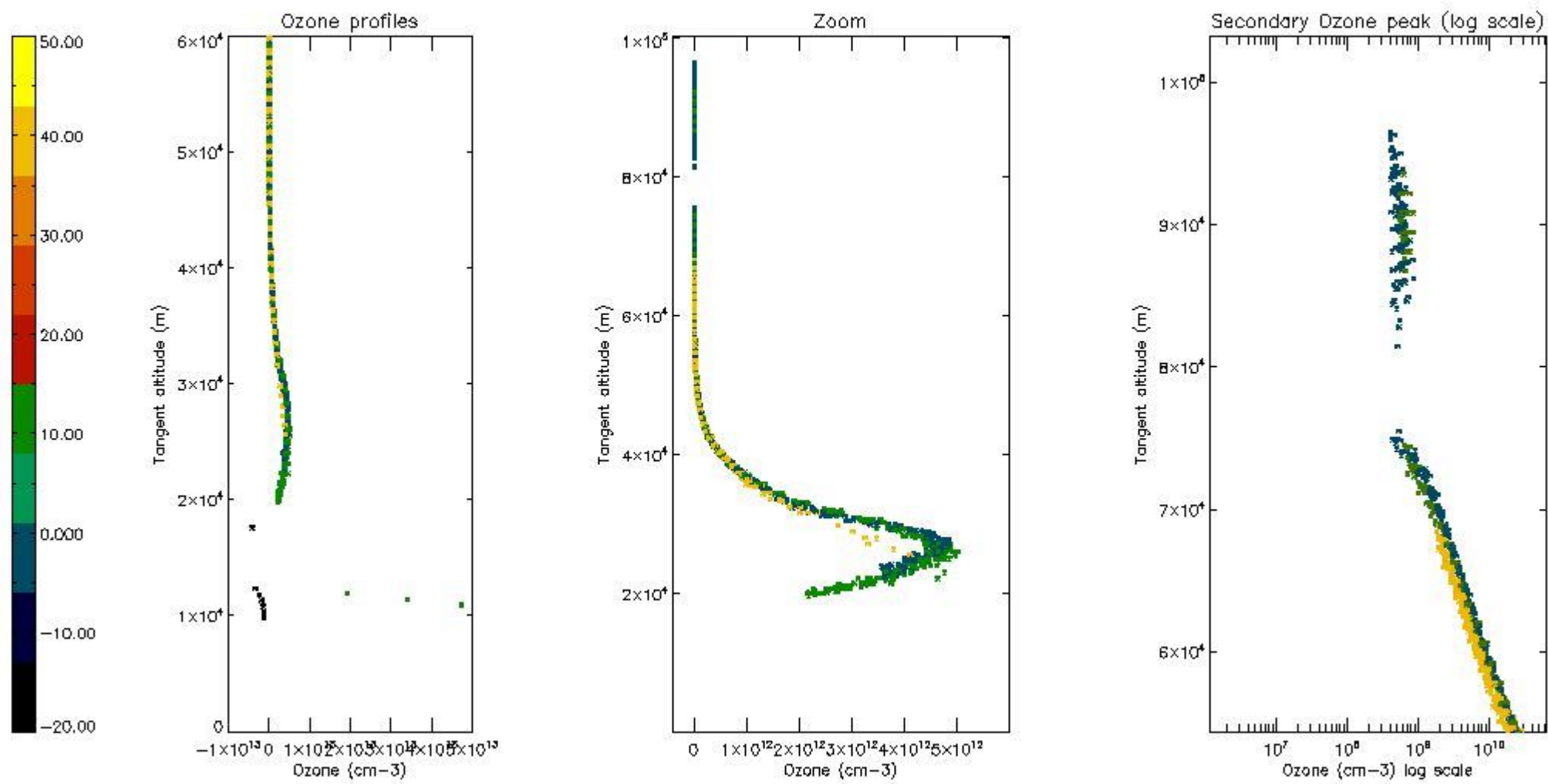
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



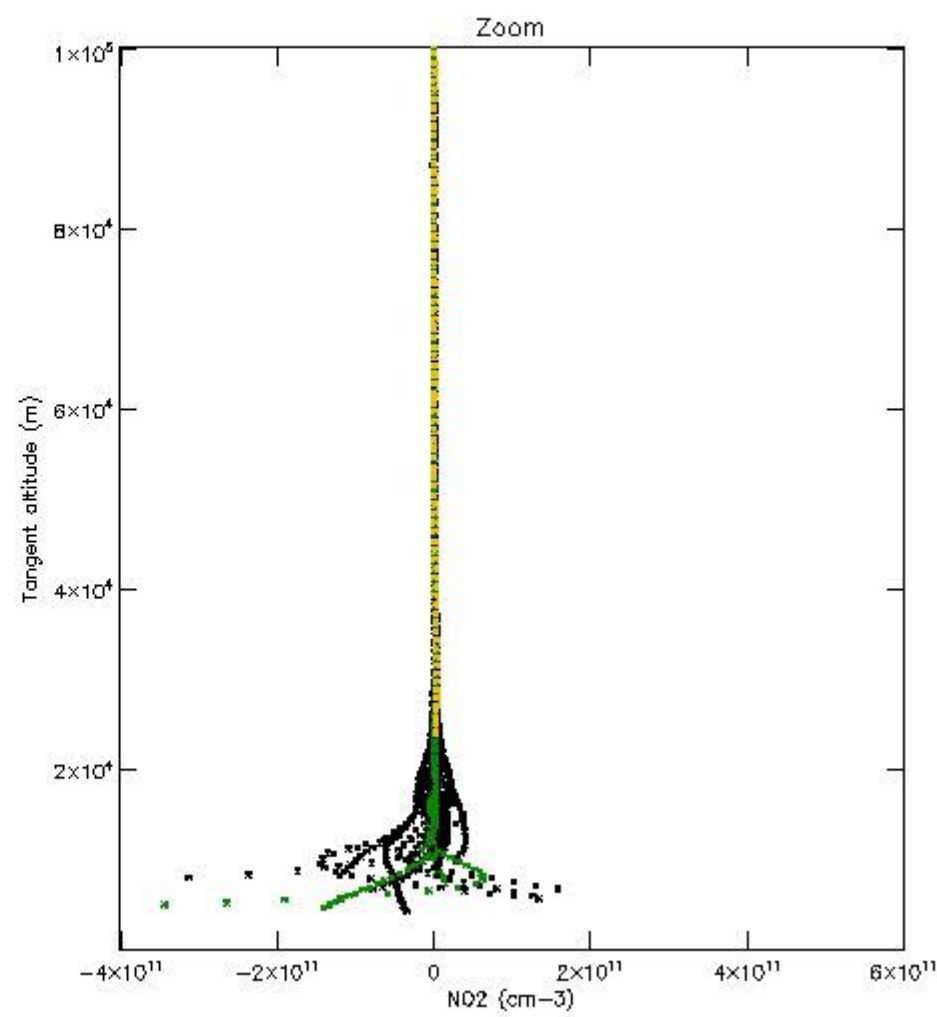
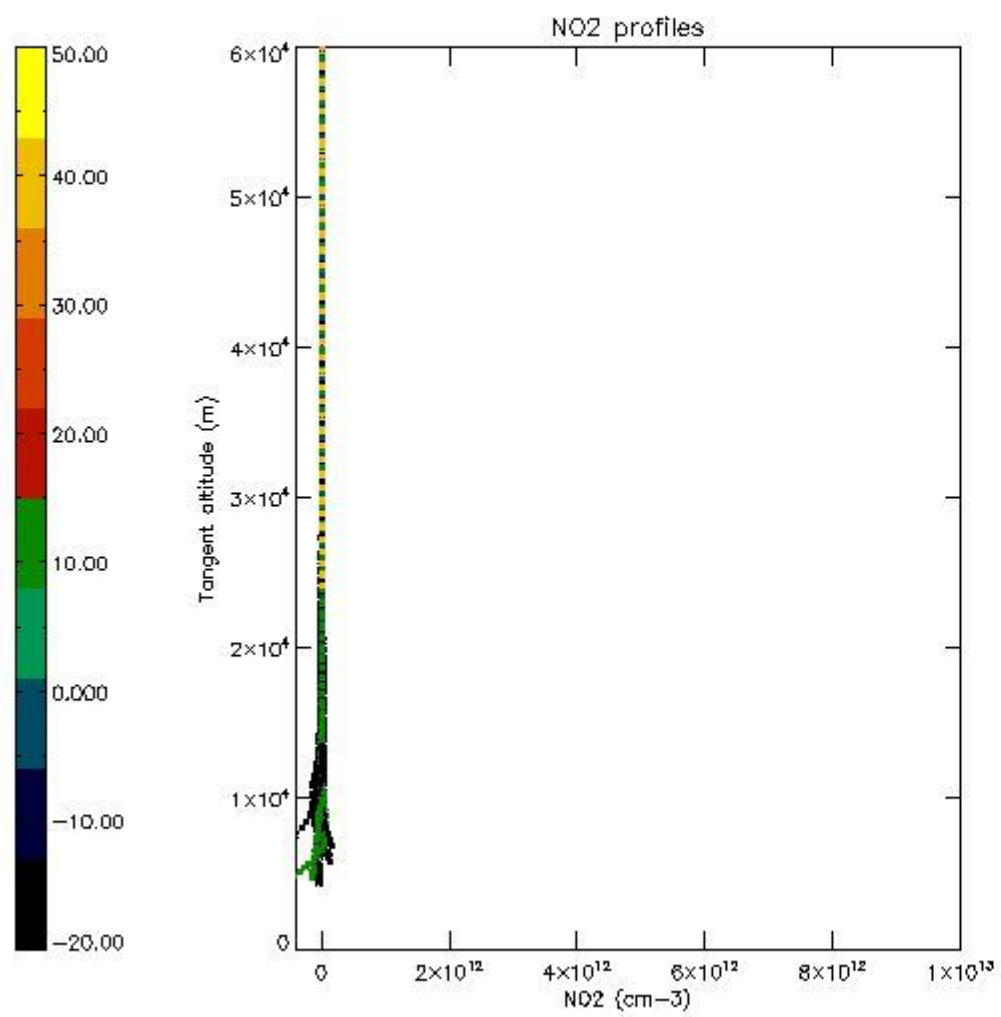
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

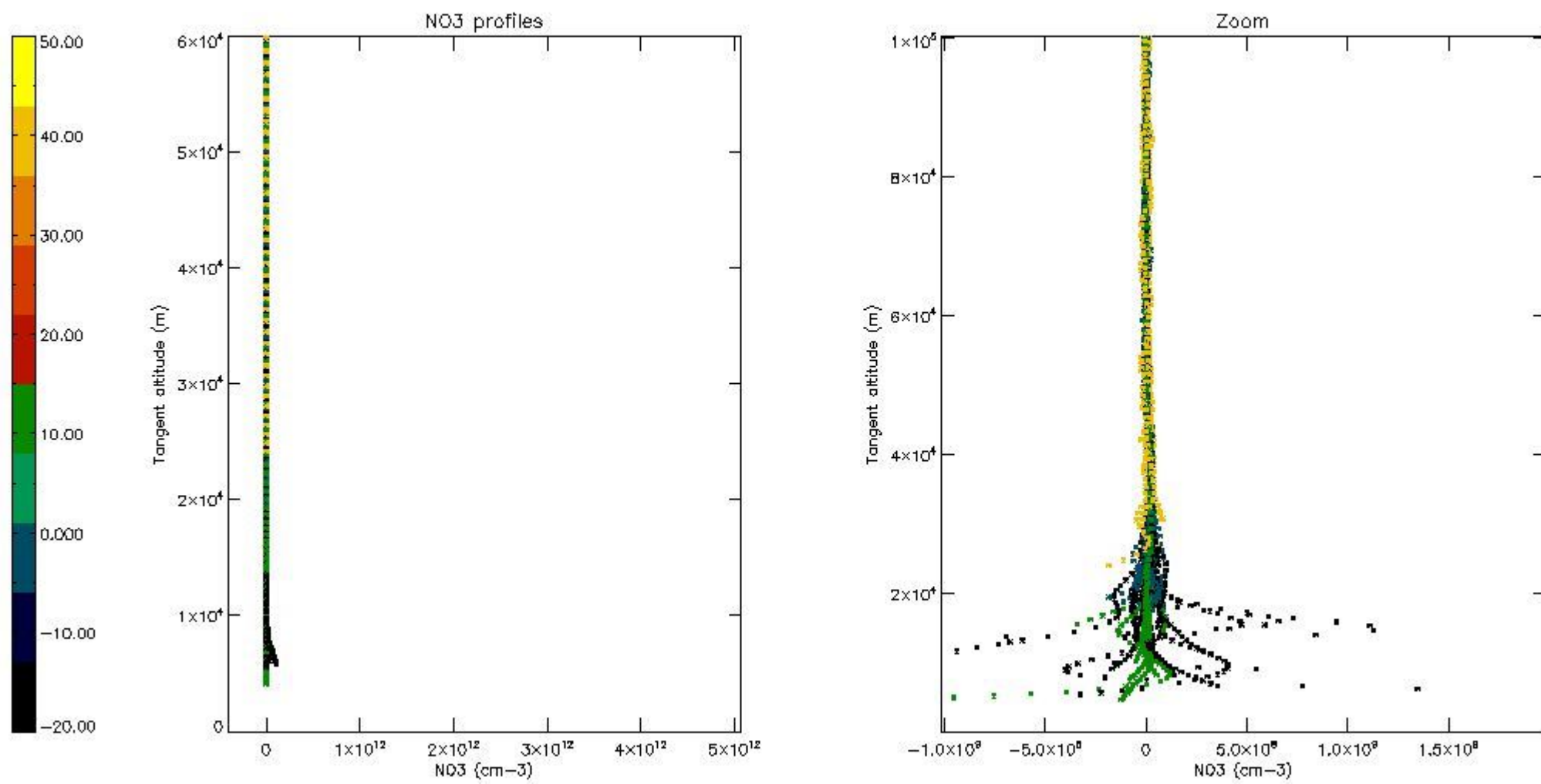
The colorbar represents the latitude.



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

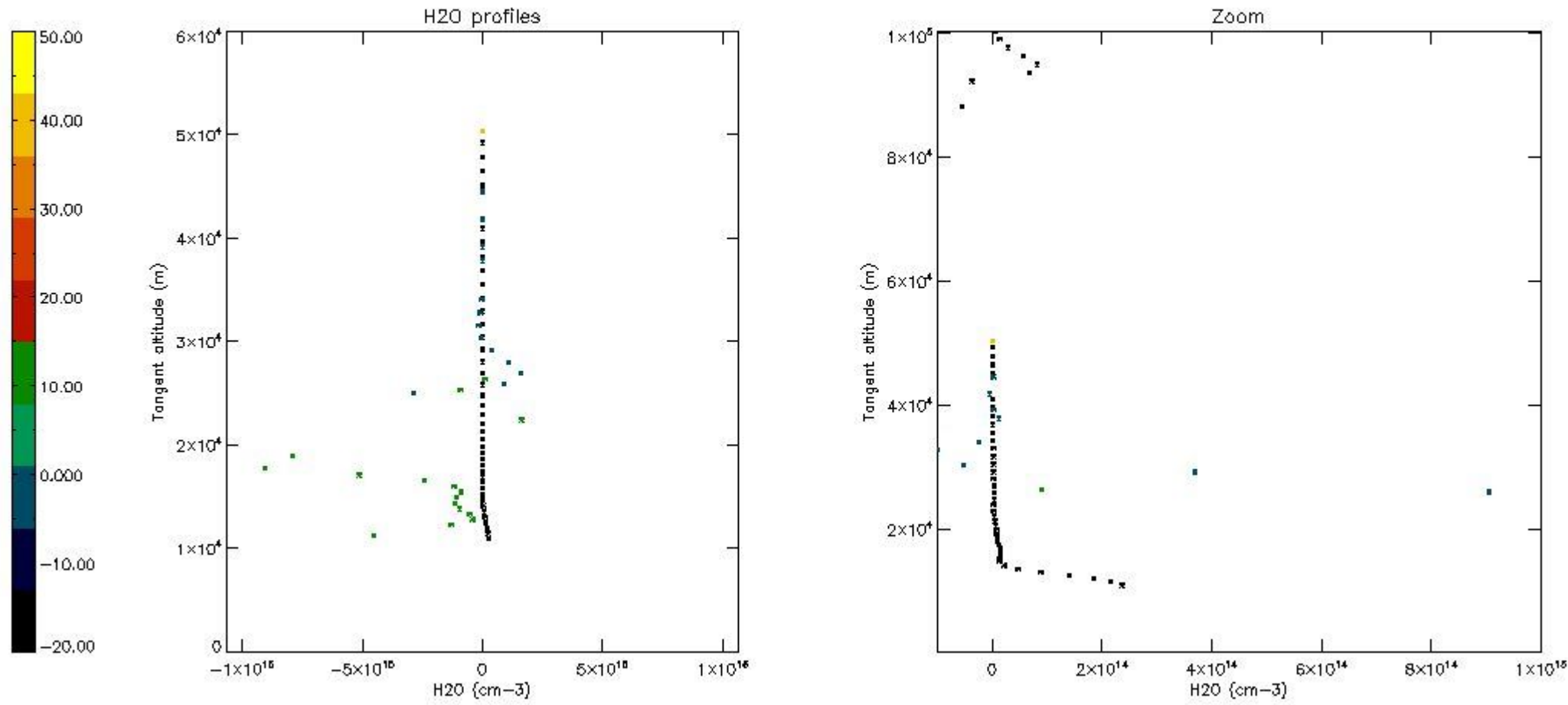
The colorbar represents the latitude.





5.8 Plot H<sub>2</sub>O 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	02-NOV-2009 00:11:31
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-NOV-2009 00:11:31
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-NOV-2009 00:11:31

# GOMOS Level 2 Daily Report

## SUMMARY

### [1. General Info](#)

### [2. Summary of processed GOM\\_NL\\_2P products](#)

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

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

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

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

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

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

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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 13:35:38
Data source version	GOMOS/6.01
Start time of products	02-11-2009 (02NOV2009 00:00:00)
Stop time of products	03-11-2009 (03NOV2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	200
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__2PRFIN20091102_001131_000000522083_00488_40121_7895.N1	02-NOV-2009 00:11:31	Dark	51.500	65	Lam Vel	2.2040	4400.0	103	40121	No
2	GOM_NL__2PRFIN20091102_001508_000000462083_00489_40122_7914.N1	02-NOV-2009 00:15:08	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	40122	No
3	GOM_NL__2PRFIN20091102_002033_000000552083_00489_40122_7915.N1	02-NOV-2009 00:20:33	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	40122	No
4	GOM_NL__2PRFIN20091102_002700_000000422083_00489_40122_7916.N1	02-NOV-2009 00:27:00	Dark	42.000	108	Alp Col	2.6520	15200.	84	40122	No
5	GOM_NL__2PRFIN20091102_004504_000000562083_00489_40122_7917.N1	02-NOV-2009 00:45:04	Twilight	55.500	94	92Alp Cet	2.5260	3100.0	111	40122	No
6	GOM_NL__2PRFIN20091102_004929_000000402083_00489_40122_7918.N1	02-NOV-2009 00:49:29	Bright	39.500	105	6Bet Ari	2.6450	8900.0	79	40122	No
7	GOM_NL__2PRFIN20091102_005352_000000392083_00489_40122_7919.N1	02-NOV-2009 00:53:52	Bright	39.000	173	4Bet Tri	3.0040	8900.0	78	40122	No
8	GOM_NL__2PRFIN20091102_005555_000000422083_00489_40122_7920.N1	02-NOV-2009 00:55:55	Bright	41.500	73	57Gam1And	2.2600	13100.	83	40122	No
9	GOM_NL__2PRFIN20091102_010025_000000412083_00489_40122_7921.N1	02-NOV-2009 01:00:25	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	40122	No
10	GOM_NL__2PRFIN20091102_011648_000000422083_00489_40122_7922.N1	02-NOV-2009 01:16:48	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	40122	No
11	GOM_NL__2PRFIN20091102_011825_000000382083_00489_40122_7923.N1	02-NOV-2009 01:18:25	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	40122	No
12	GOM_NL__2PRFIN20091102_012207_000000372083_00489_40122_7924.N1	02-NOV-2009 01:22:07	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	40122	No
13	GOM_NL__2PRFIN20091102_013052_000000482083_00489_40122_7925.N1	02-NOV-2009 01:30:52	Bright	48.000	51	41Gam1Leo	2.0100	4500.0	96	40122	No
14	GOM_NL__2PRFIN20091102_013405_000000522083_00489_40122_7926.N1	02-NOV-2009 01:34:05	Bright	52.000	22	32Alp Leo	1.3600	15200.	104	40122	No
15	GOM_NL__2PRFIN20091102_015207_000000472083_00489_40122_7927.N1	02-NOV-2009 01:52:07	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	40122	No
16	GOM_NL__2PRFIN20091102_015545_000000472083_00490_40123_7925.N1	02-NOV-2009 01:55:45	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	40123	No
17	GOM_NL__2PRFIN20091102_020110_000000482083_00490_40123_7926.N1	02-NOV-2009 02:01:10	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	40123	No
18	GOM_NL__2PRFIN20091102_020737_000000422083_00490_40123_7927.N1	02-NOV-2009 02:07:37	Dark	42.000	108	Alp Col	2.6520	15200.	84	40123	No
19	GOM_NL__2PRFIN20091102_022540_000000562083_00490_40123_7928.N1	02-NOV-2009 02:25:40	Twilight	55.500	94	92Alp Cet	2.5260	3100.0	111	40123	No
20	GOM_NL__2PRFIN20091102_023005_000000402083_00490_40123_7929.N1	02-NOV-2009 02:30:05	Bright	40.000	105	6Bet Ari	2.6450	8900.0	80	40123	No
21	GOM_NL__2PRFIN20091102_023428_000000402083_00490_40123_7930.N1	02-NOV-2009 02:34:28	Bright	40.000	173	4Bet Tri	3.0040	8900.0	80	40123	No
22	GOM_NL__2PRFIN20091102_023630_000000402083_00490_40123_7931.N1	02-NOV-2009 02:36:30	Bright	40.000	73	57Gam1And	2.2600	13100.	80	40123	No
23	GOM_NL__2PRFIN20091102_024101_000000412083_00490_40123_7932.N1	02-NOV-2009 02:41:01	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	40123	No
24	GOM_NL__2PRFIN20091102_025724_000000442083_00490_40123_7933.N1	02-NOV-2009 02:57:24	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	40123	No
25	GOM_NL__2PRFIN20091102_025901_000000562083_00490_40123_7934.N1	02-NOV-2009 02:59:01	Bright	56.000	82	48Bet UMa	2.3650	10600.	112	40123	No
26	GOM_NL__2PRFIN20091102_030243_000000382083_00490_40123_7935.N1	02-NOV-2009 03:02:43	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	40123	No
27	GOM_NL__2PRFIN20091102_031129_000000532083_00490_40123_7936.N1	02-NOV-2009 03:11:29	Bright	52.500	51	41Gam1Leo	2.0100	4500.0	105	40123	No
28	GOM_NL__2PRFIN20091102_031442_000000562083_00490_40123_7937.N1	02-NOV-2009 03:14:42	Bright	55.500	22	32Alp Leo	1.3600	15200.	111	40123	No
29	GOM_NL__2PRFIN20091102_033244_000000532083_00490_40123_7938.N1	02-NOV-2009 03:32:44	Dark	52.500	65	Lam Vel	2.2040	4400.0	105	40123	No
30	GOM_NL__2PRFIN20091102_033622_000000472083_00491_40124_7934.N1	02-NOV-2009 03:36:22	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40124	No
31	GOM_NL__2PRFIN20091102_034147_000000562083_00491_40124_7935.N1	02-NOV-2009 03:41:47	Dark	55.500	2	Alp Car	-0.73600	7000.0	111	40124	No
32	GOM_NL__2PRFIN20091102_034814_000000432083_00491_40124_7936.N1	02-NOV-2009 03:48:14	Dark	43.000	108	Alp Col	2.6520	15200.	86	40124	No
33	GOM_NL__2PRFIN20091102_040615_000000562083_00491_40124_7937.N1	02-NOV-2009 04:06:15	Twilight	56.000	94	92Alp Cet	2.5260	3100.0	112	40124	No
34	GOM_NL__2PRFIN20091102_041041_000000402083_00491_40124_7938.N1	02-NOV-2009 04:10:41	Bright	39.500	105	6Bet Ari	2.6450	8900.0	79	40124	No
35	GOM_NL__2PRFIN20091102_041504_000000392083_00491_40124_7939.N1	02-NOV-2009 04:15:04	Bright	39.000	173	4Bet Tri	3.0040	8900.0	78	40124	No
36	GOM_NL__2PRFIN20091102_041706_000000412083_00491_40124_7940.N1	02-NOV-2009 04:17:06	Bright	40.500	73	57Gam1And	2.2600	13100.	81	40124	No
37	GOM_NL__2PRFIN20091102_042136_000000412083_00491_40124_7941.N1	02-NOV-2009 04:21:36	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	40124	No
38	GOM_NL__2PRFIN20091102_043800_000000402083_00491_40124_7942.N1	02-NOV-2009 04:38:00	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	40124	No
39	GOM_NL__2PRFIN20091102_043937_000000402083_00491_40124_7943.N1	02-NOV-2009 04:39:37	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	40124	No
40	GOM_NL__2PRFIN20091102_044319_000000392083_00491_40124_7944.N1	02-NOV-2009 04:43:19	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	40124	No
41	GOM_NL__2PRFIN20091102_045205_000000652083_00491_40124_7945.N1	02-NOV-2009 04:52:05	Bright	65.000	51	41Gam1Leo	2.0100	4500.0	130	40124	No
42	GOM_NL__2PRFIN20091102_045518_000000552083_00491_40124_7946.N1	02-NOV-2009 04:55:18	Bright	54.500	22	32Alp Leo	1.3600	15200.	109	40124	No



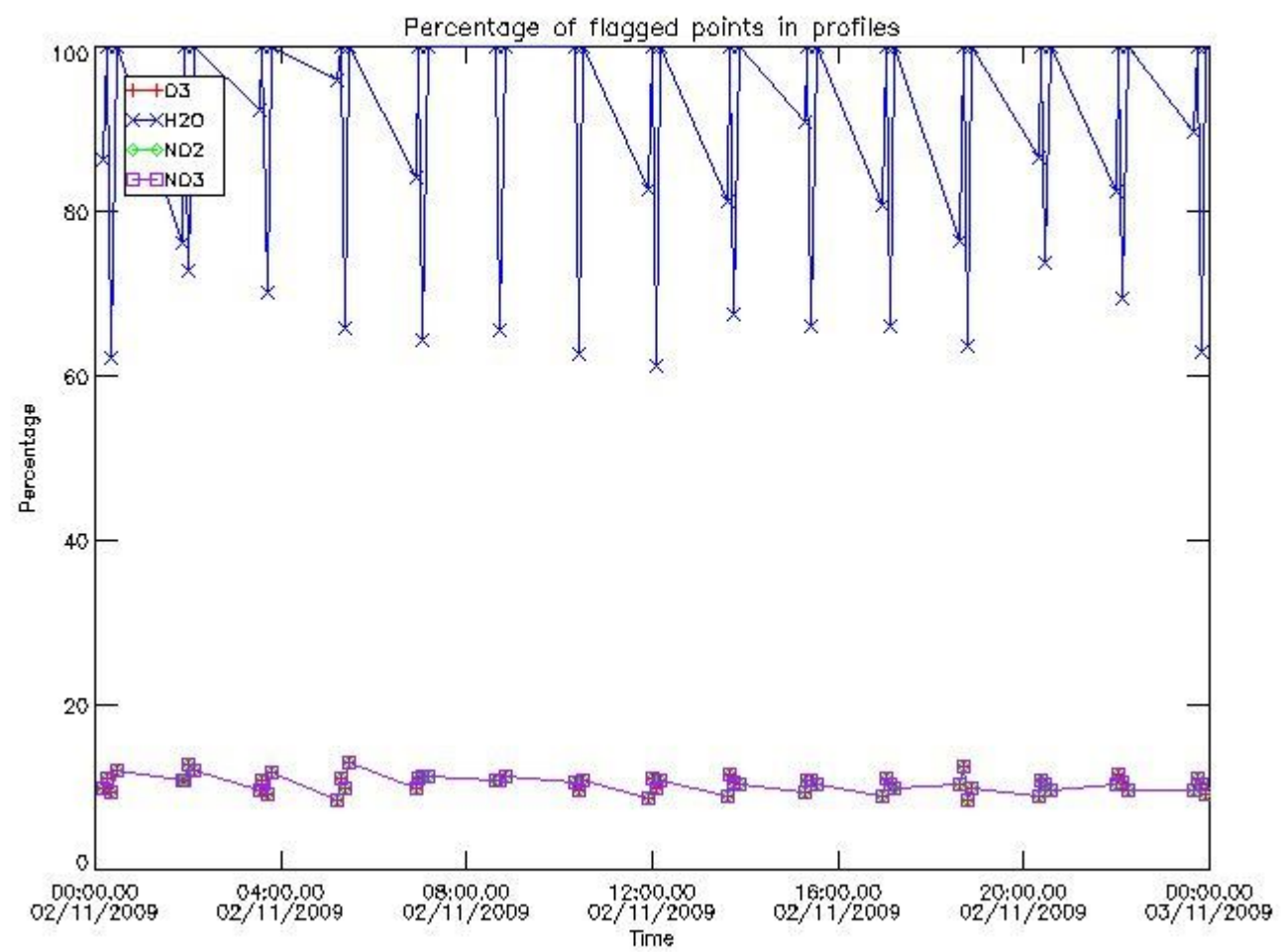


161	GOM_NL__2PRFIN20091102_192227_000000402083_00500_40133_8079.N1	02-NOV-2009 19:22:27	Bright	39.500	73	57Gam1And	2.2600	13100.	79	40133	No
162	GOM_NL__2PRFIN20091102_192655_000000422083_00500_40133_8080.N1	02-NOV-2009 19:26:55	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	40133	No
163	GOM_NL__2PRFIN20091102_194323_000000402083_00500_40133_8081.N1	02-NOV-2009 19:43:23	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	40133	No
164	GOM_NL__2PRFIN20091102_194500_000000402083_00500_40133_8082.N1	02-NOV-2009 19:45:00	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	40133	No
165	GOM_NL__2PRFIN20091102_194843_000000402083_00500_40133_8083.N1	02-NOV-2009 19:48:43	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	40133	No
166	GOM_NL__2PRFIN20091102_195732_000000522083_00500_40133_8084.N1	02-NOV-2009 19:57:32	Bright	51.500	51	41Gam1Leo	2.0100	4500.0	103	40133	No
167	GOM_NL__2PRFIN20091102_201852_000000572083_00500_40133_8082.N1	02-NOV-2009 20:18:52	Dark	56.500	65	Lam Vel	2.2040	4400.0	113	40133	No
168	GOM_NL__2PRFIN20091102_202231_000000472083_00501_40134_8083.N1	02-NOV-2009 20:22:31	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	40134	No
169	GOM_NL__2PRFIN20091102_202754_000000602083_00501_40134_8084.N1	02-NOV-2009 20:27:54	Dark	59.500	2	Alp Car	-0.73600	7000.0	119	40134	No
170	GOM_NL__2PRFIN20091102_203423_000000532083_00501_40134_8085.N1	02-NOV-2009 20:34:23	Dark	53.000	108	Alp Col	2.6520	15200.	106	40134	No
171	GOM_NL__2PRFIN20091102_204602_000000432083_00501_40134_8086.N1	02-NOV-2009 20:46:02	Straylight	43.000	165	34Gam Eri	2.9500	3200.0	86	40134	No
172	GOM_NL__2PRFIN20091102_205212_000000542083_00501_40134_8087.N1	02-NOV-2009 20:52:12	Twilight_stray	54.000	94	92Alp Cet	2.5260	3100.0	108	40134	No
173	GOM_NL__2PRFIN20091102_205638_000000382083_00501_40134_8088.N1	02-NOV-2009 20:56:38	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	40134	No
174	GOM_NL__2PRFIN20091102_210100_000000572083_00501_40134_8089.N1	02-NOV-2009 21:01:00	Bright	57.000	173	4Bet Tri	3.0040	8900.0	114	40134	No
175	GOM_NL__2PRFIN20091102_210303_000000372083_00501_40134_8090.N1	02-NOV-2009 21:03:03	Bright	36.500	73	57Gam1And	2.2600	13100.	73	40134	No
176	GOM_NL__2PRFIN20091102_210731_000000412083_00501_40134_8091.N1	02-NOV-2009 21:07:31	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	40134	No
177	GOM_NL__2PRFIN20091102_212359_000000562083_00501_40134_8092.N1	02-NOV-2009 21:23:59	Bright	56.000	36	50Alp UMa	1.8000	6300.0	112	40134	No
178	GOM_NL__2PRFIN20091102_212535_000000392083_00501_40134_8093.N1	02-NOV-2009 21:25:35	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	40134	No
179	GOM_NL__2PRFIN20091102_212919_000000392083_00501_40134_8094.N1	02-NOV-2009 21:29:19	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	40134	No
180	GOM_NL__2PRFIN20091102_213809_000000702083_00501_40134_8095.N1	02-NOV-2009 21:38:09	Bright	70.000	51	41Gam1Leo	2.0100	4500.0	140	40134	No
181	GOM_NL__2PRFIN20091102_214124_000000622083_00501_40134_8096.N1	02-NOV-2009 21:41:24	Bright	62.000	22	32Alp Leo	1.3600	15200.	124	40134	No
182	GOM_NL__2PRFIN20091102_215929_000000492084_00001_40135_8093.N1	02-NOV-2009 21:59:29	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	40135	No
183	GOM_NL__2PRFIN20091102_220308_000000442084_00001_40135_8094.N1	02-NOV-2009 22:03:08	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	40135	No
184	GOM_NL__2PRFIN20091102_220830_000000482084_00001_40135_8095.N1	02-NOV-2009 22:08:30	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	40135	No
185	GOM_NL__2PRFIN20091102_221500_000000532084_00001_40135_8096.N1	02-NOV-2009 22:15:00	Dark	53.000	108	Alp Col	2.6520	15200.	106	40135	No
186	GOM_NL__2PRFIN20091102_222638_000000432084_00001_40135_8097.N1	02-NOV-2009 22:26:38	Straylight	43.000	165	34Gam Eri	2.9500	3200.0	86	40135	No
187	GOM_NL__2PRFIN20091102_223248_000000552084_00001_40135_8098.N1	02-NOV-2009 22:32:48	Twilight_stray	54.500	94	92Alp Cet	2.5260	3100.0	109	40135	No
188	GOM_NL__2PRFIN20091102_223714_000000382084_00001_40135_8099.N1	02-NOV-2009 22:37:14	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	40135	No
189	GOM_NL__2PRFIN20091102_224136_000000382084_00001_40135_8100.N1	02-NOV-2009 22:41:36	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	40135	No
190	GOM_NL__2PRFIN20091102_224339_000000362084_00001_40135_8101.N1	02-NOV-2009 22:43:39	Bright	36.000	73	57Gam1And	2.2600	13100.	72	40135	No
191	GOM_NL__2PRFIN20091102_224806_000000422084_00001_40135_8102.N1	02-NOV-2009 22:48:06	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	40135	No
192	GOM_NL__2PRFIN20091102_230434_000000412084_00001_40135_8103.N1	02-NOV-2009 23:04:34	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	40135	No
193	GOM_NL__2PRFIN20091102_230611_000000372084_00001_40135_8104.N1	02-NOV-2009 23:06:11	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	40135	No
194	GOM_NL__2PRFIN20091102_230955_000000382084_00001_40135_8105.N1	02-NOV-2009 23:09:55	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	40135	No
195	GOM_NL__2PRFIN20091102_231845_000000512084_00001_40135_8106.N1	02-NOV-2009 23:18:45	Bright	51.000	51	41Gam1Leo	2.0100	4500.0	102	40135	No
196	GOM_NL__2PRFIN20091102_232201_000000612084_00001_40135_8107.N1	02-NOV-2009 23:22:01	Bright	61.000	22	32Alp Leo	1.3600	15200.	122	40135	No
197	GOM_NL__2PRFIN20091102_234006_000000592084_00002_40136_8104.N1	02-NOV-2009 23:40:06	Dark	58.500	65	Lam Vel	2.2040	4400.0	117	40136	No
198	GOM_NL__2PRFIN20091102_234345_000000462084_00002_40136_8105.N1	02-NOV-2009 23:43:45	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	40136	No
199	GOM_NL__2PRFIN20091102_234907_000000492084_00002_40136_8106.N1	02-NOV-2009 23:49:07	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	40136	No
200	GOM_NL__2PRFIN20091102_235537_000000552084_00002_40136_8107.N1	02-NOV-2009 23:55:37	Dark	55.000	108	Alp Col	2.6520	15200.	110	40136	No

### 3. Quality information per product

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

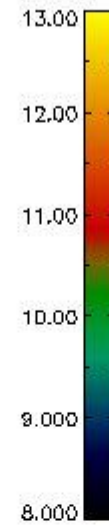
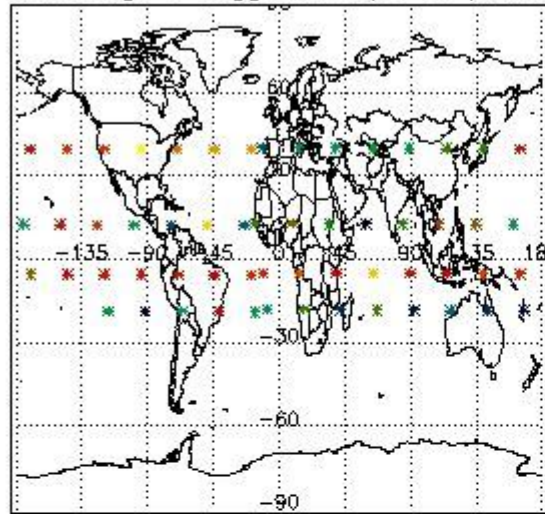
#### 3.1 Plot quality information per product (time dependant)



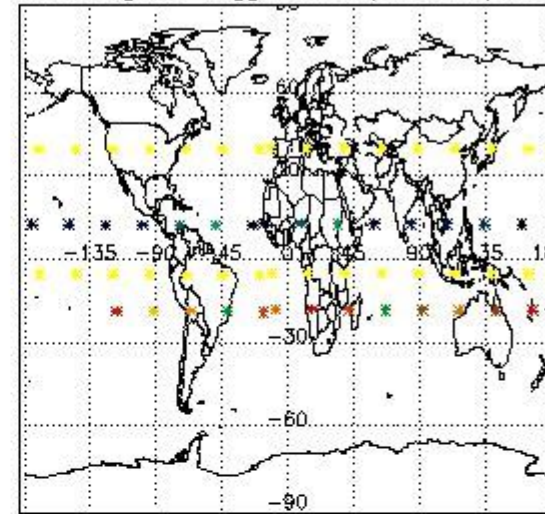
*3.2 Plot quality information per product (world map)*



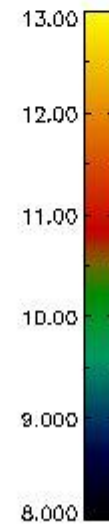
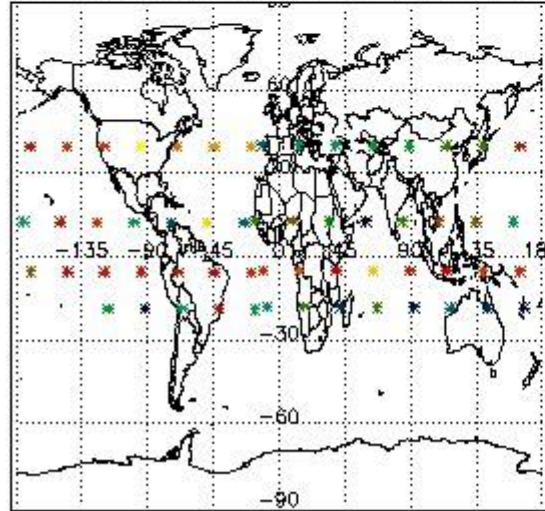
Percentage of flagged data per O3 profile



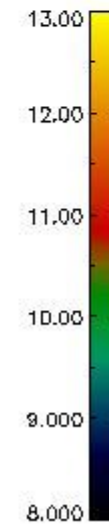
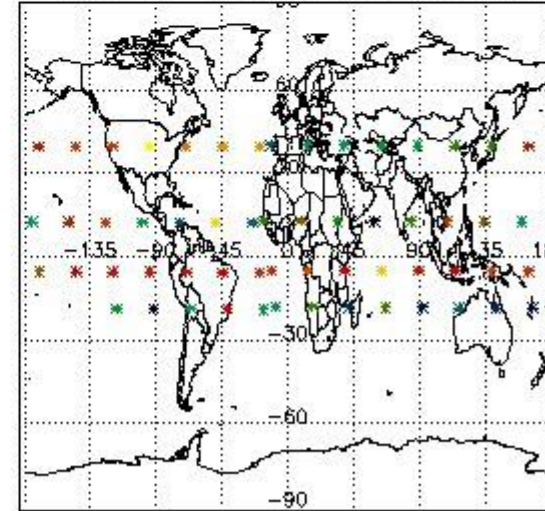
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

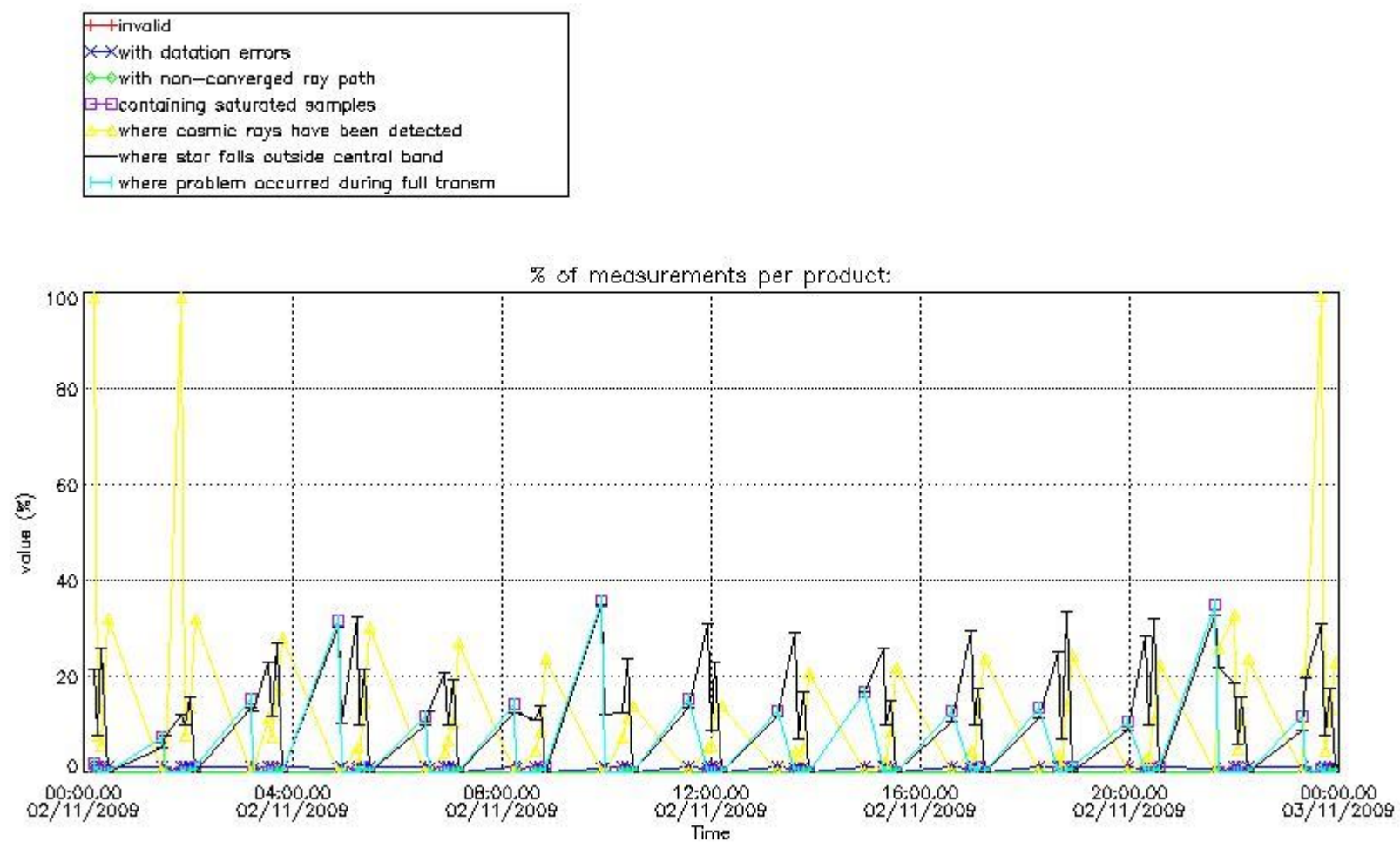


#### 4. Level 1 quality information per product

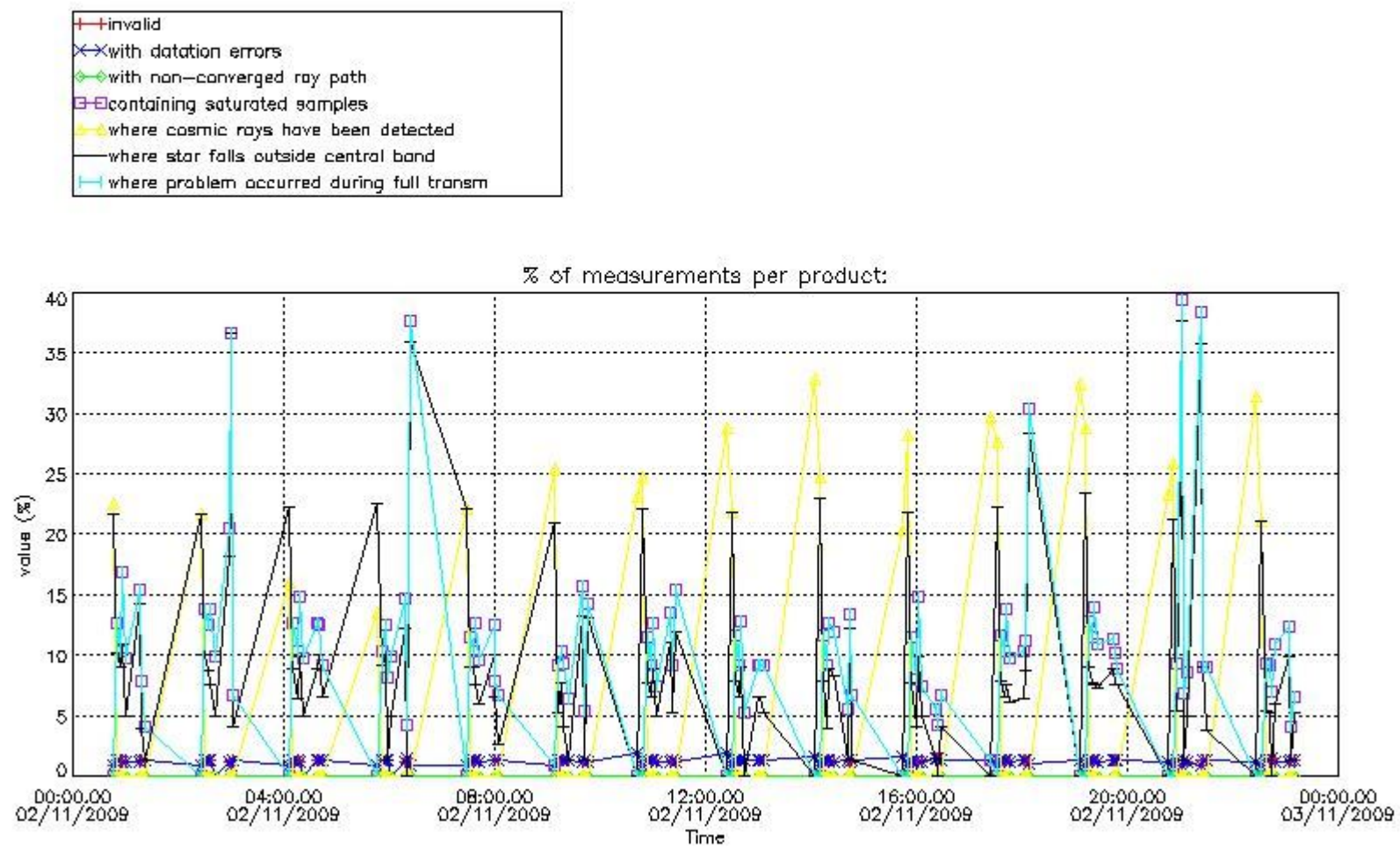
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

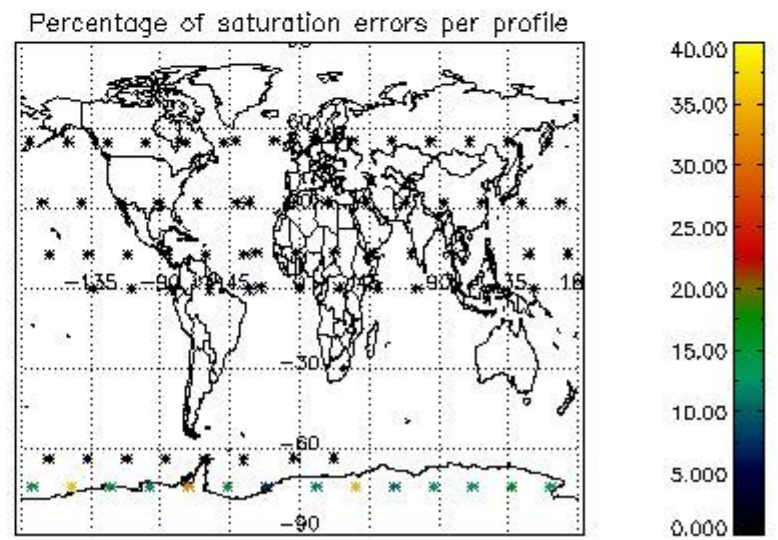
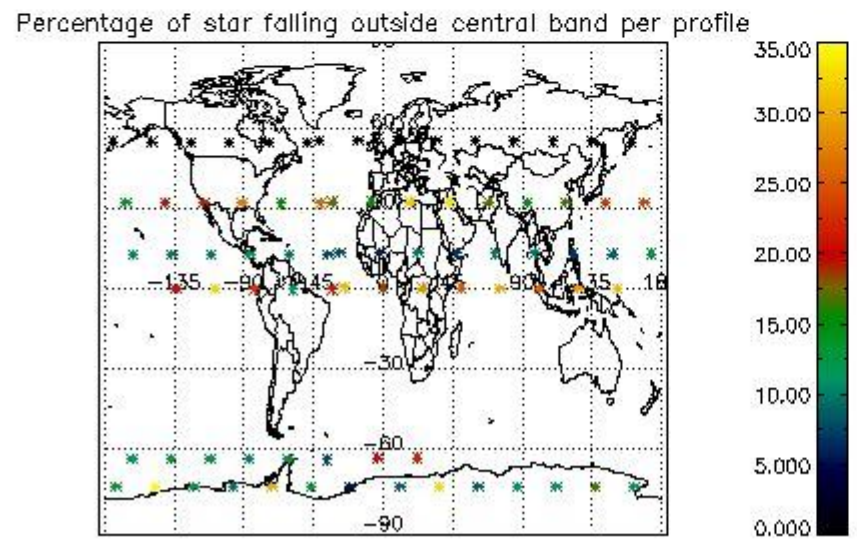
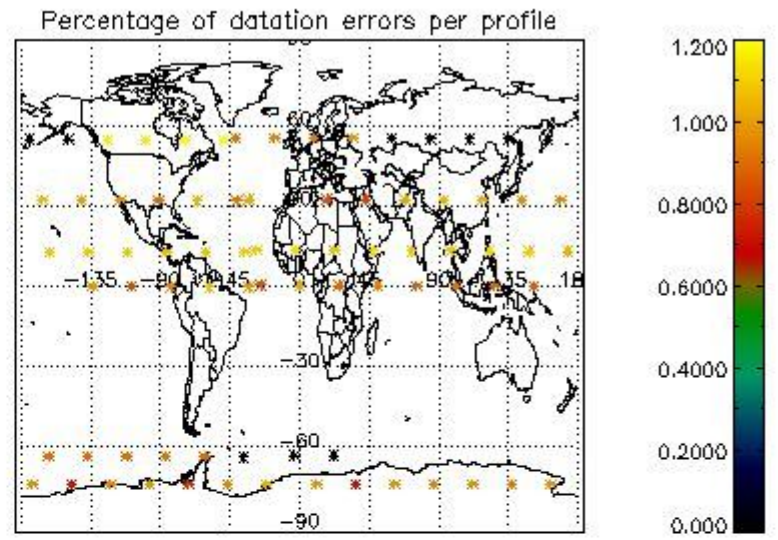
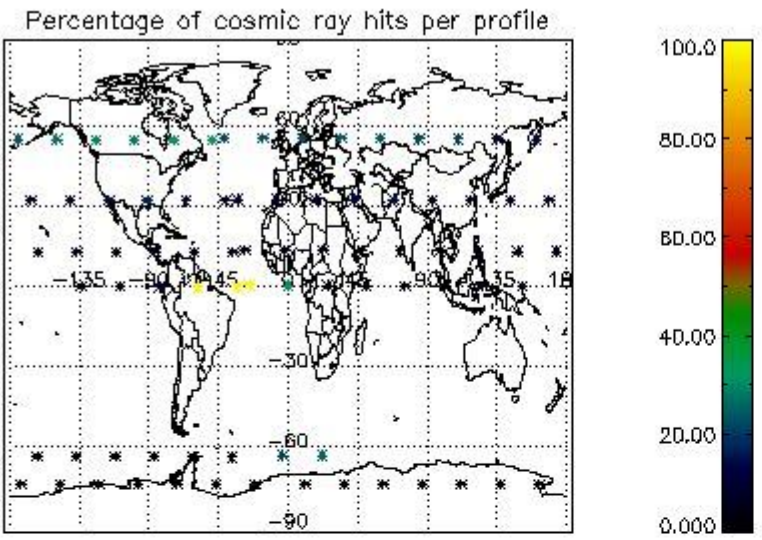


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

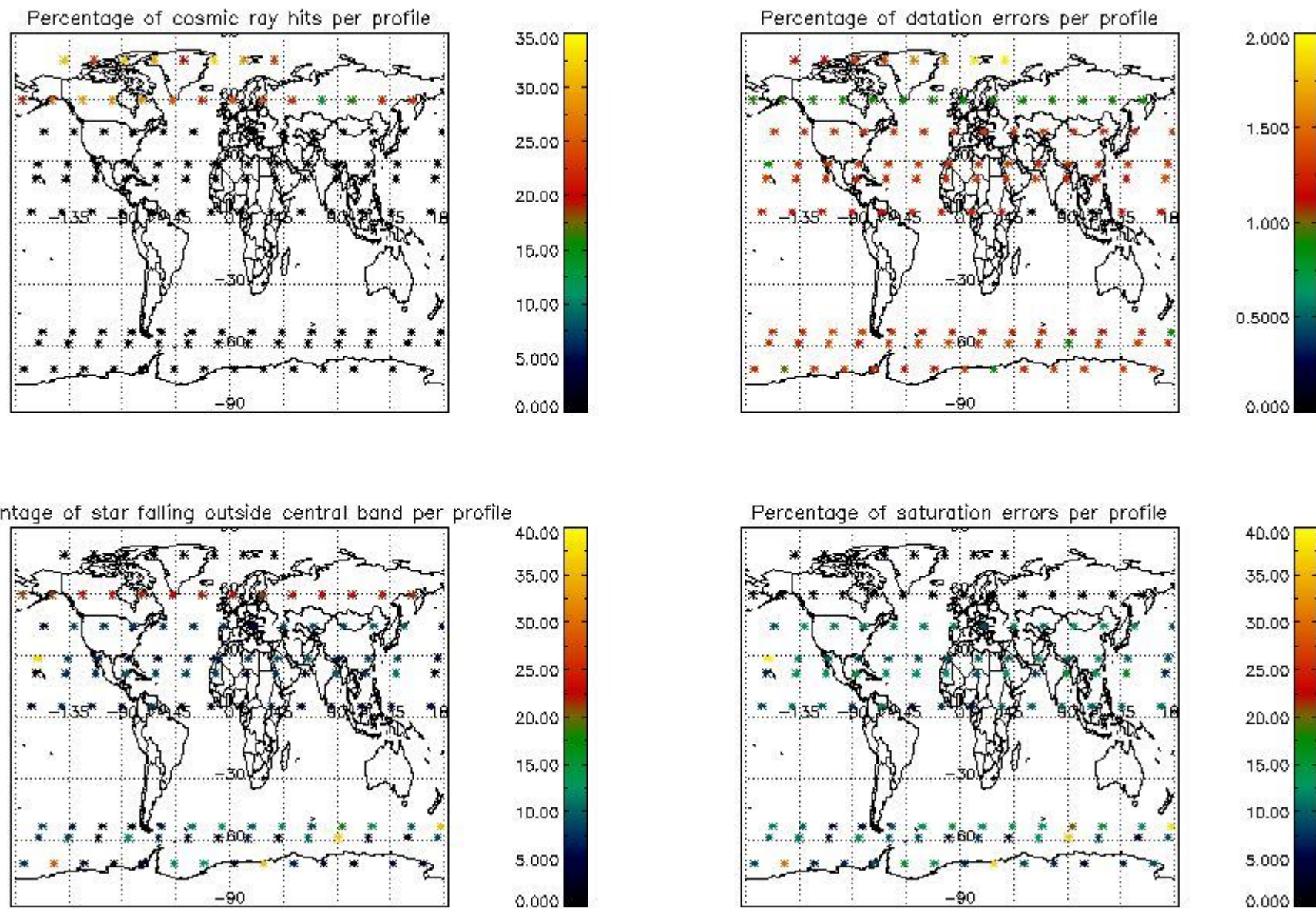


*4.2 Plot quality information per product coming from level 1b processing (world map)*

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



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



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

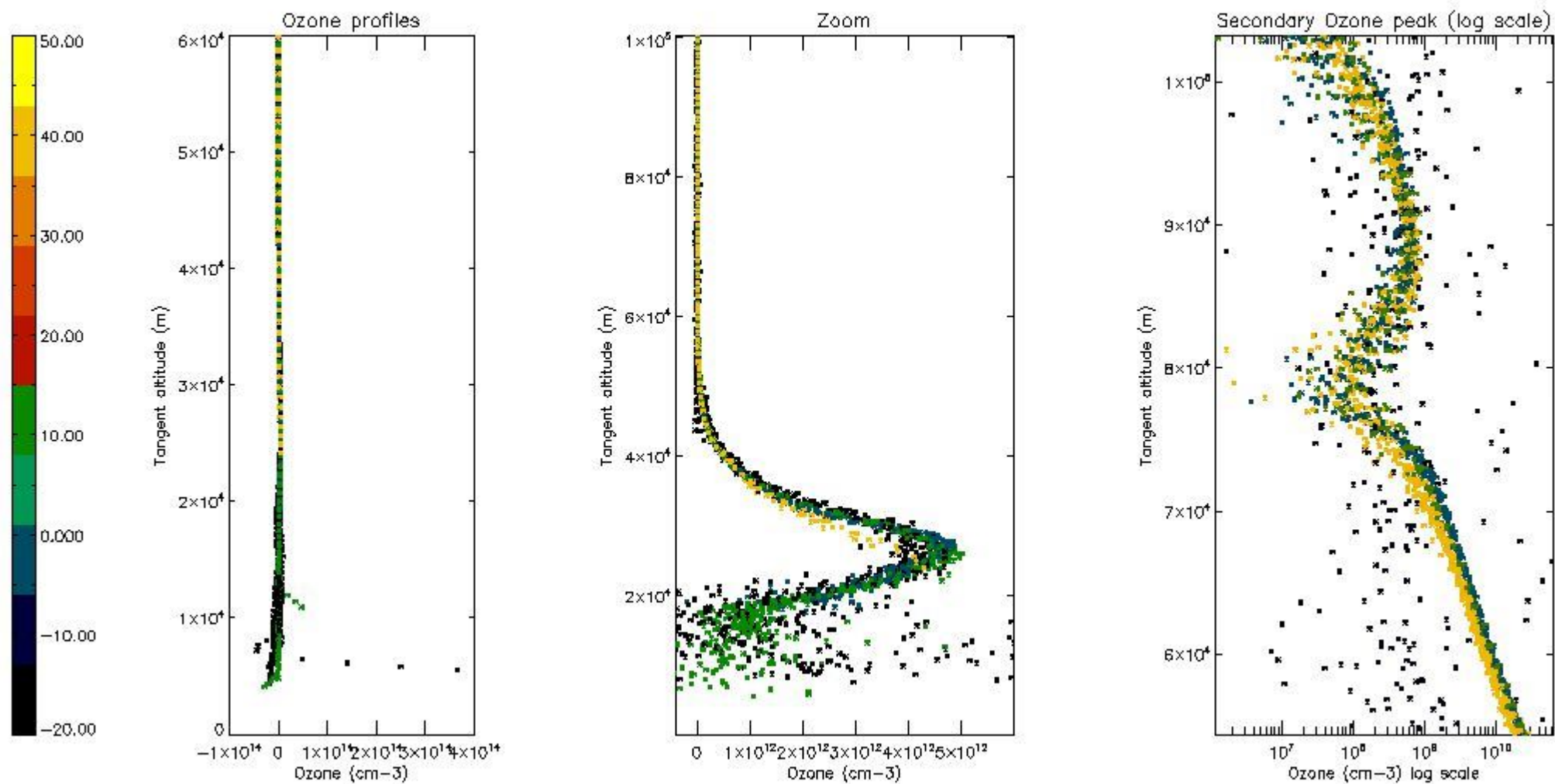
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	19

STD < 10	15
STD < 5	12

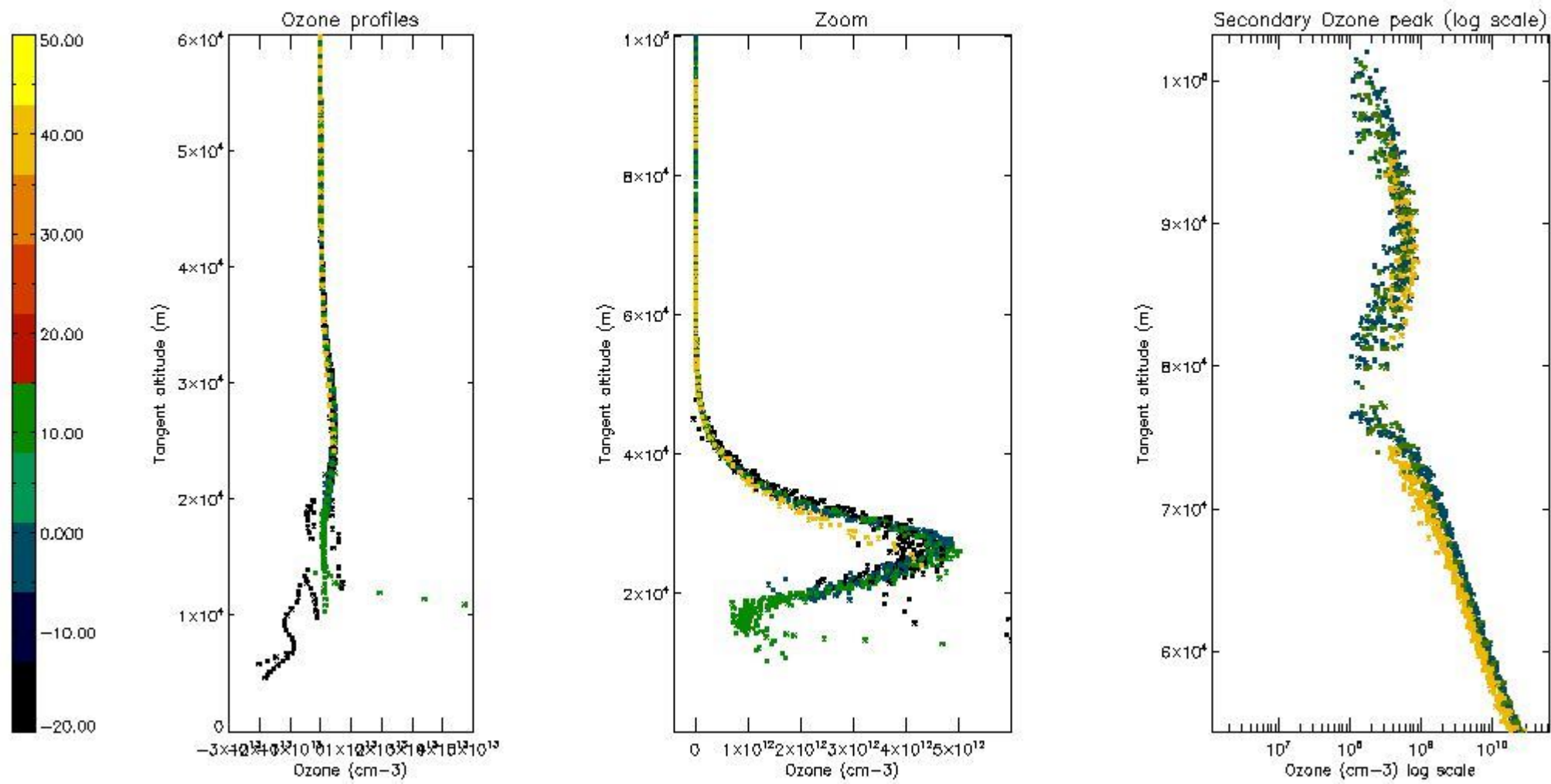
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



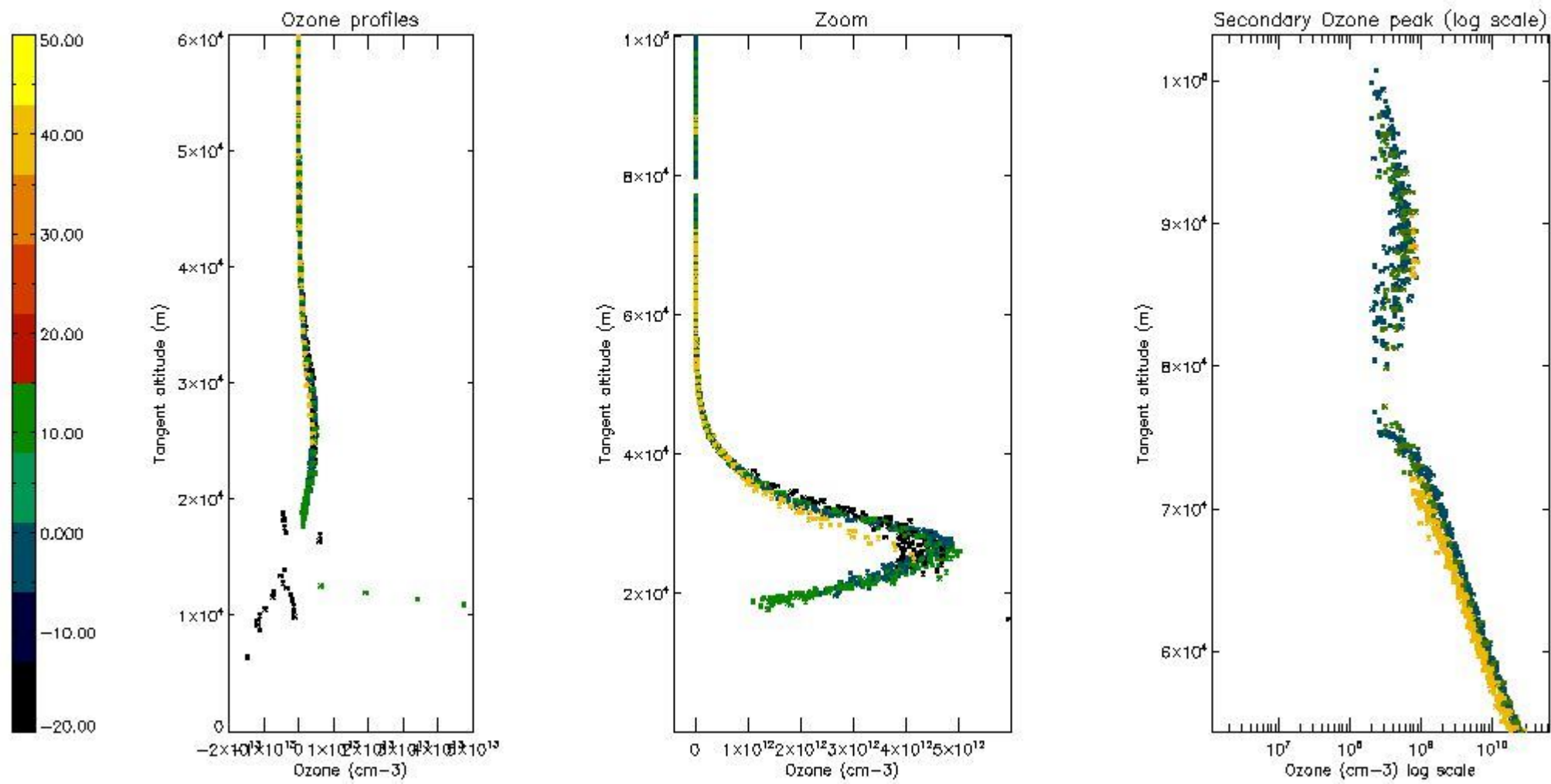
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

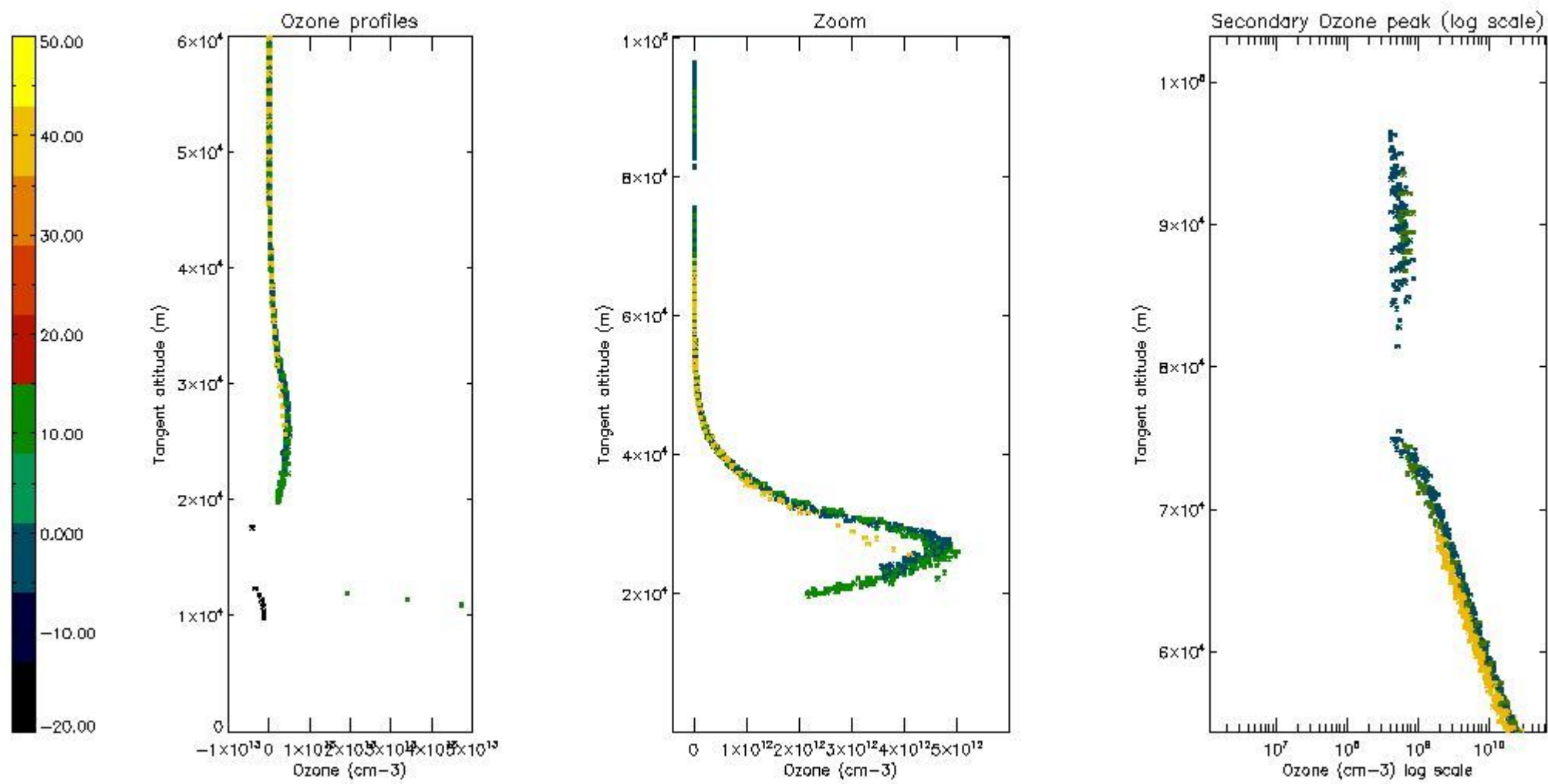
The colorbar represents the latitude.



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

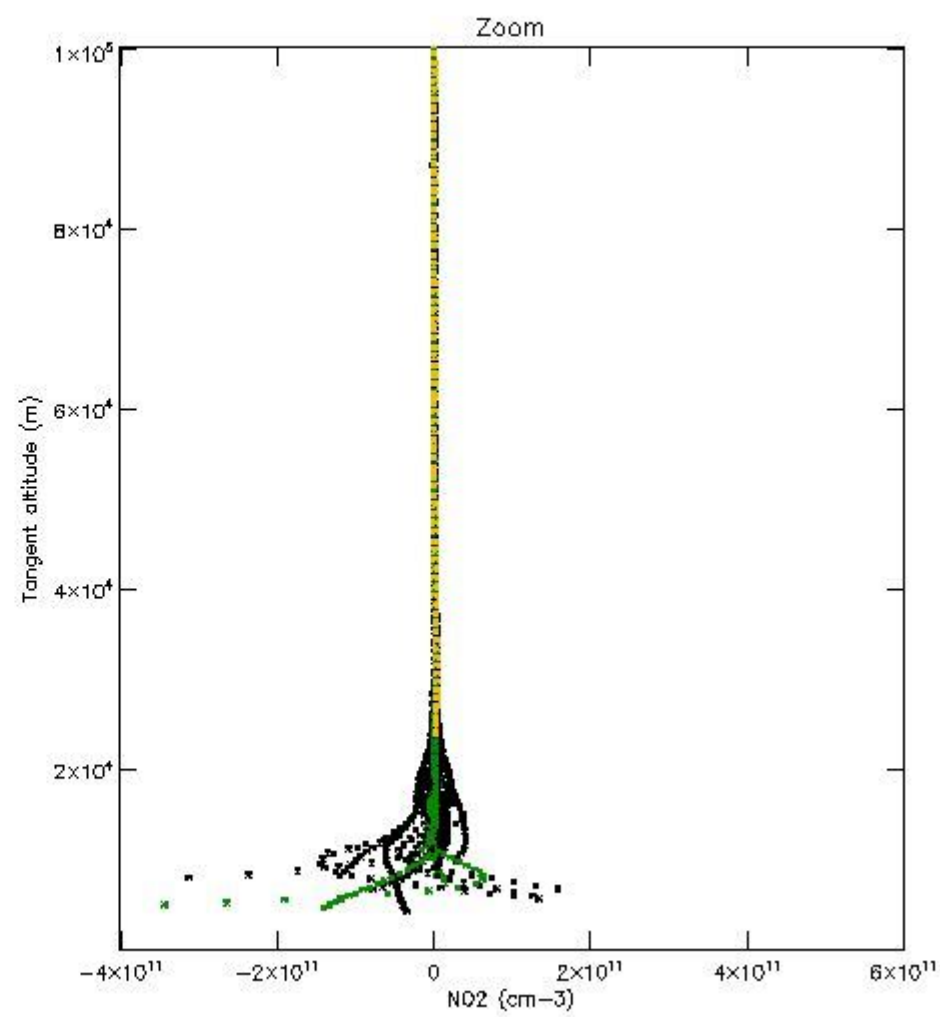
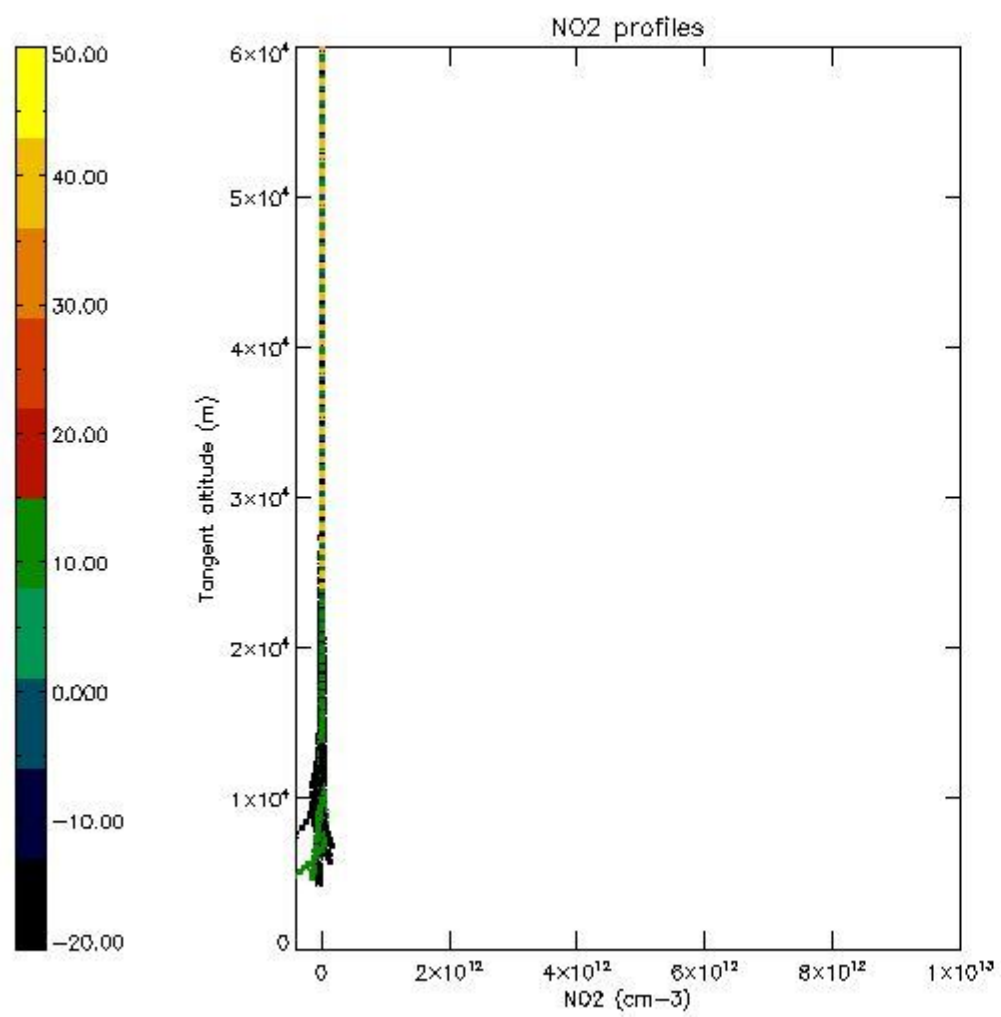
The colorbar represents the latitude.





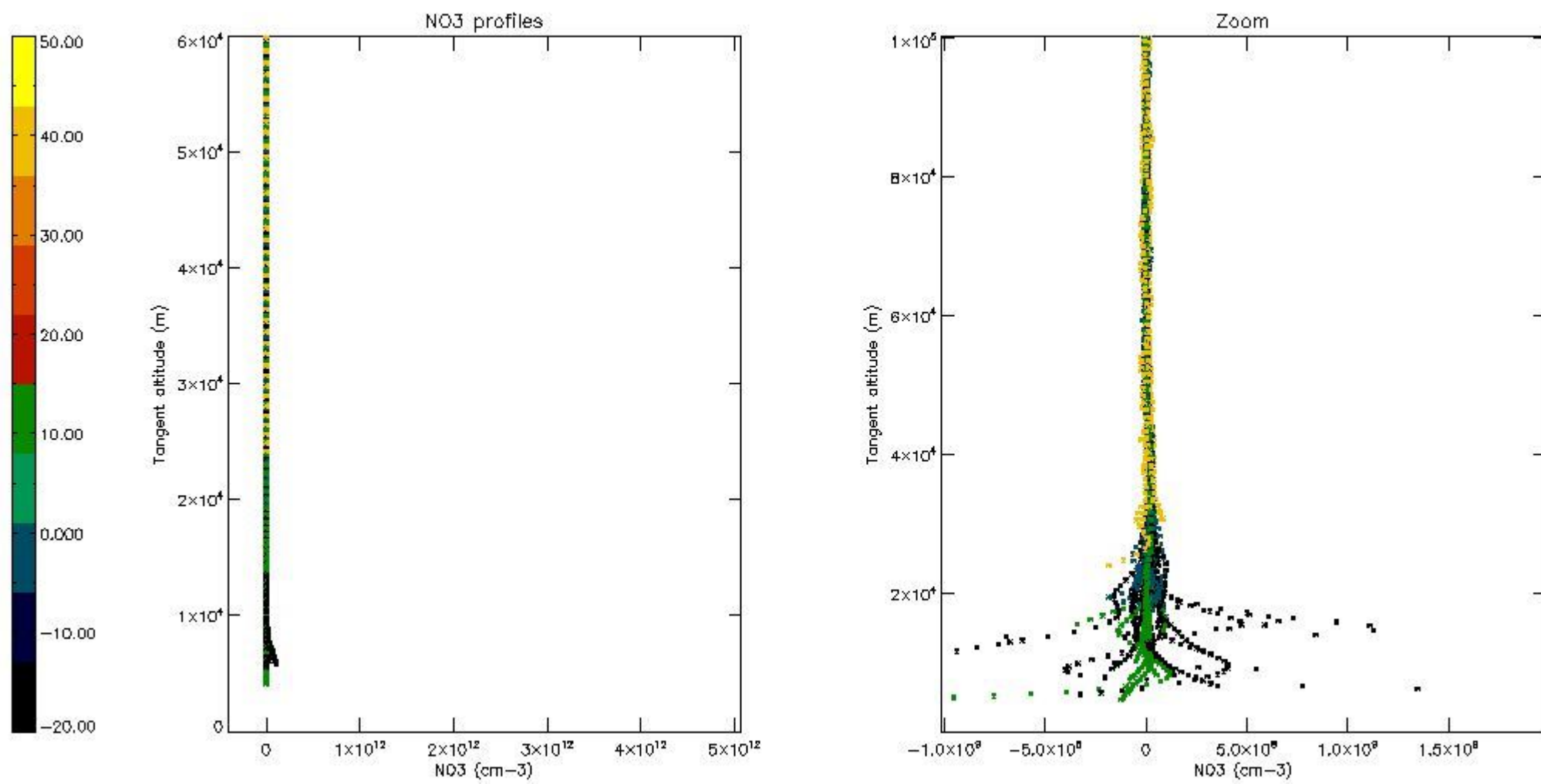
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



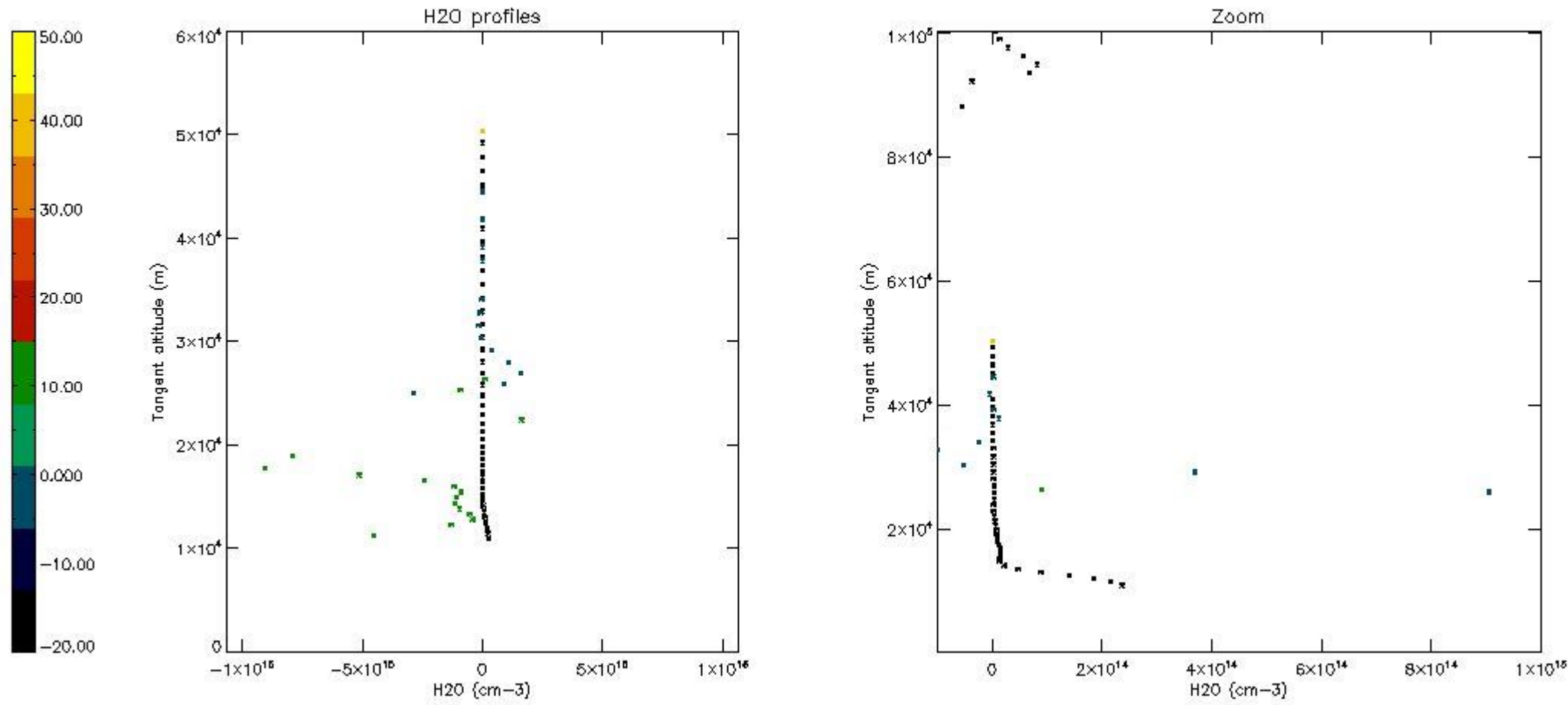
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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)

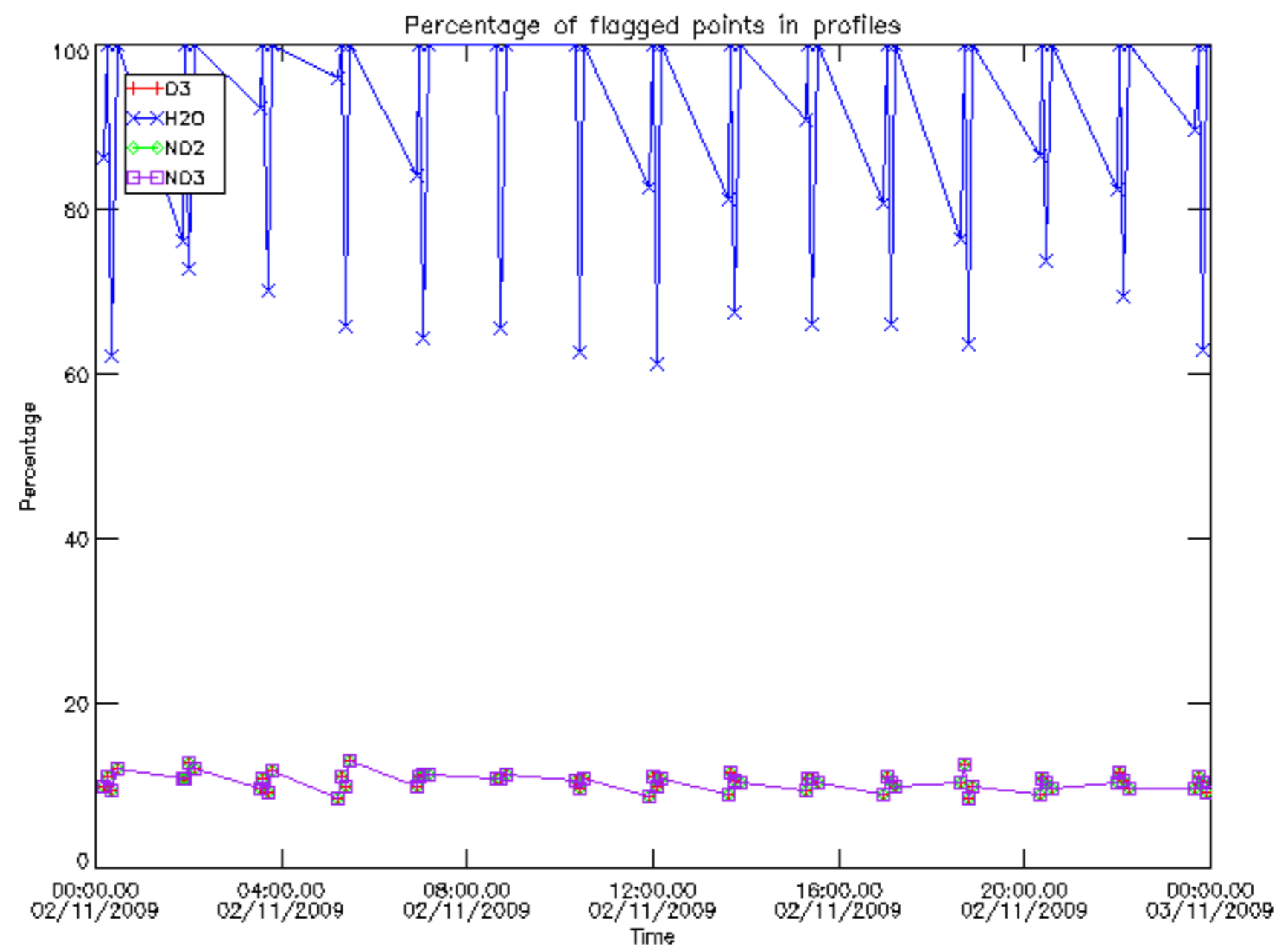
The colorbar represents the latitude.



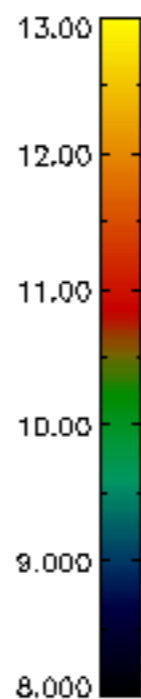
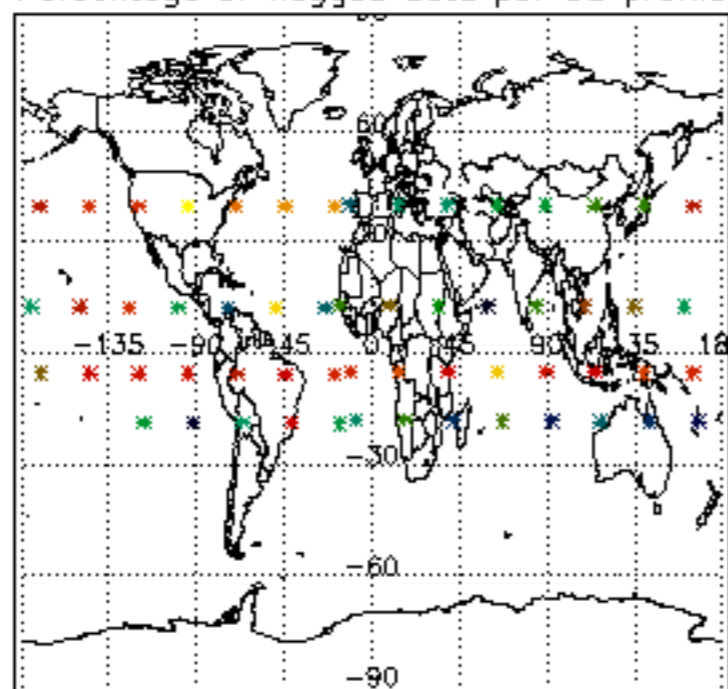
## 6. Auxiliary Data Files used for the production reported in section 2

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.

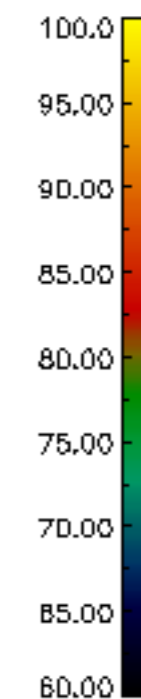
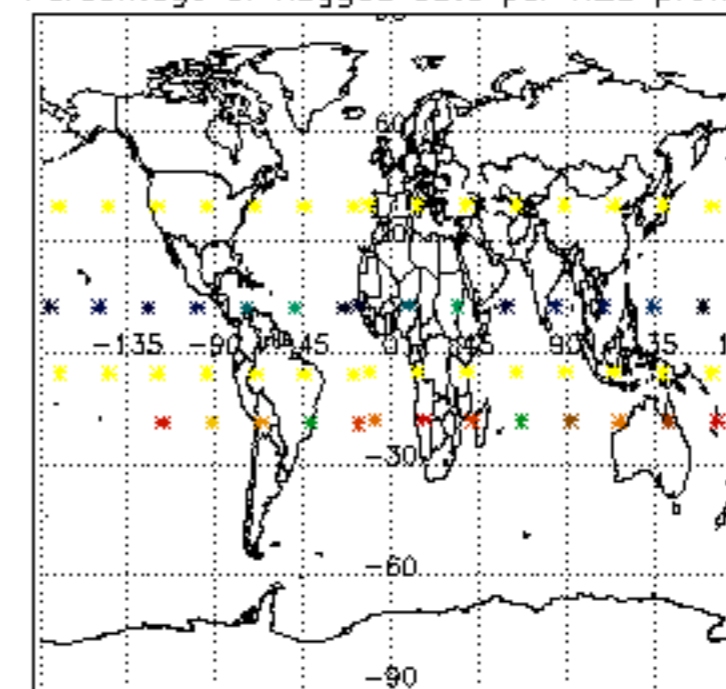
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	02-NOV-2009 00:11:31
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-NOV-2009 00:11:31
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-NOV-2009 00:11:31



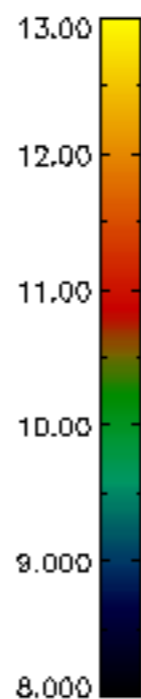
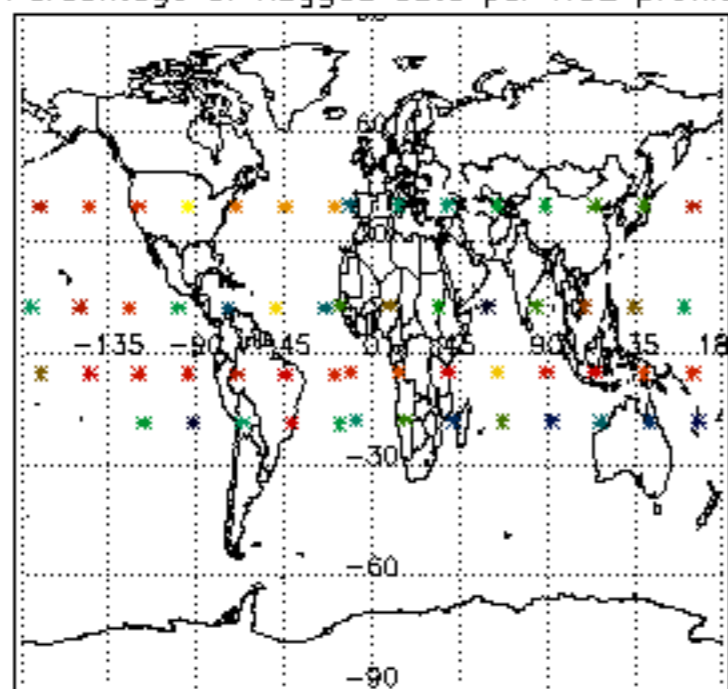
Percentage of flagged data per D3 profile



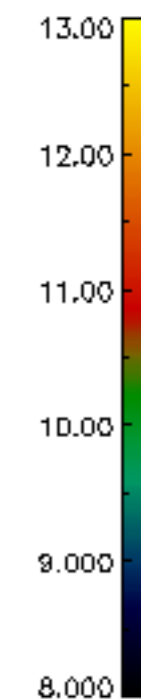
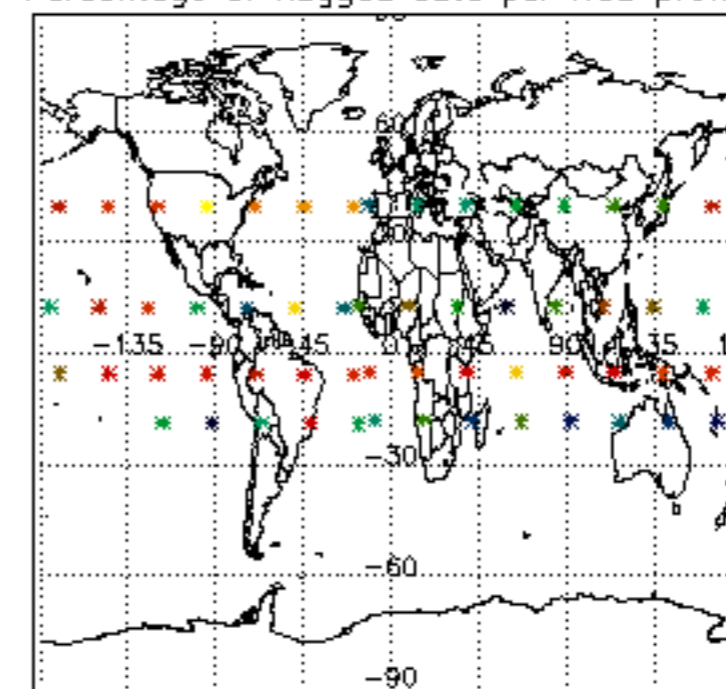
Percentage of flagged data per H2O profile

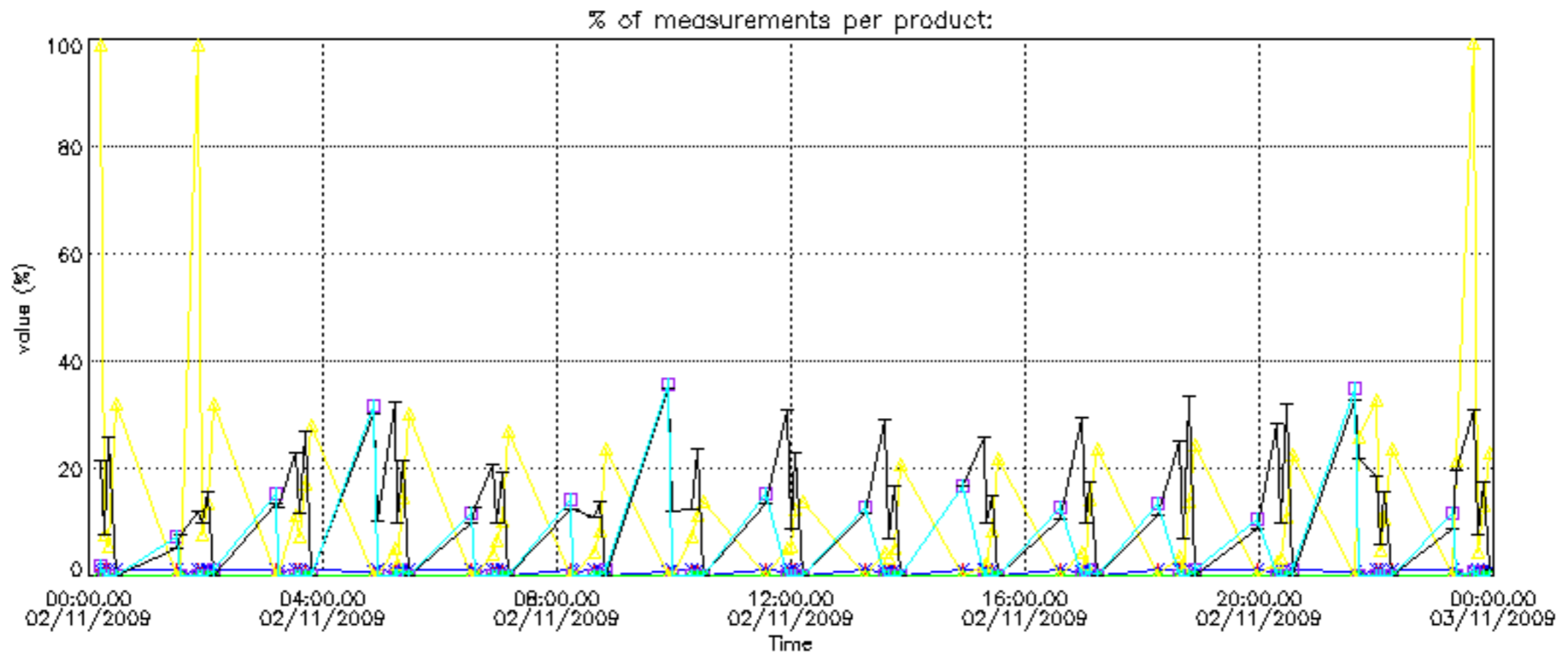


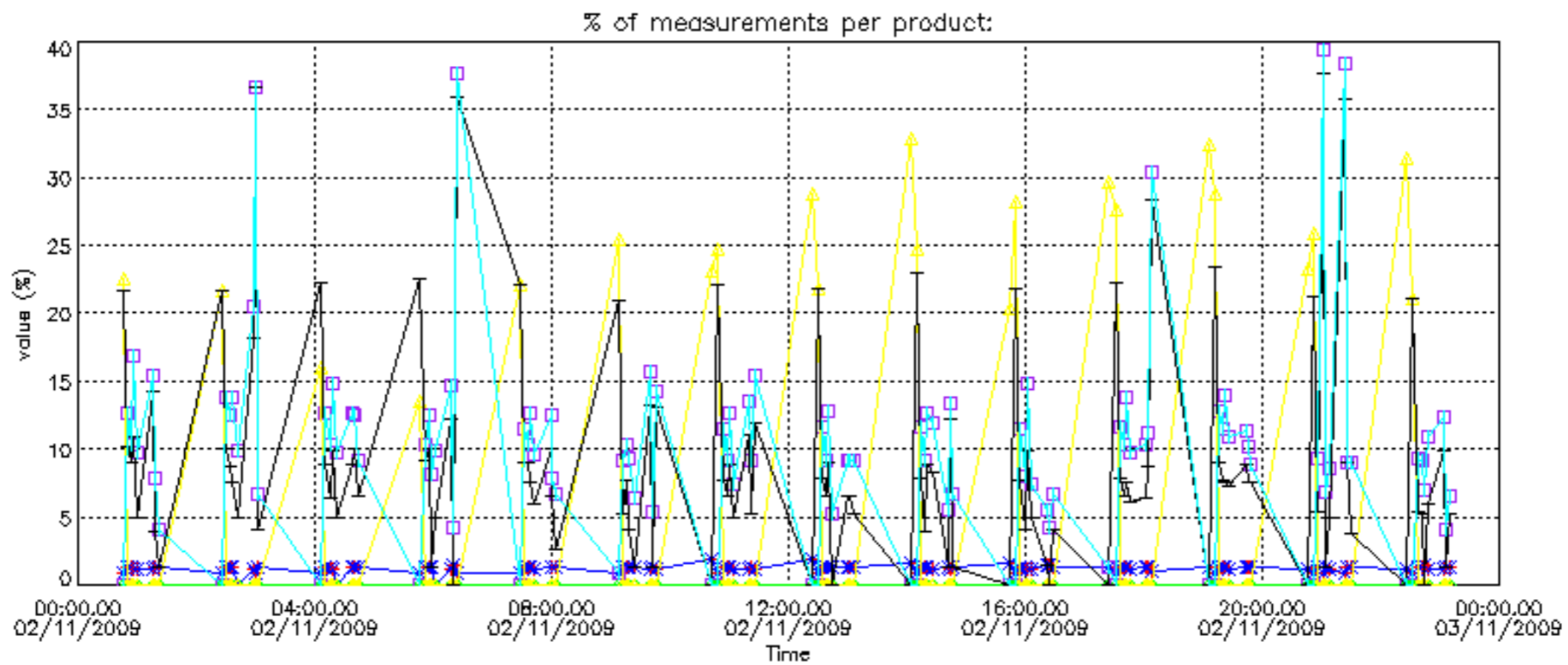
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

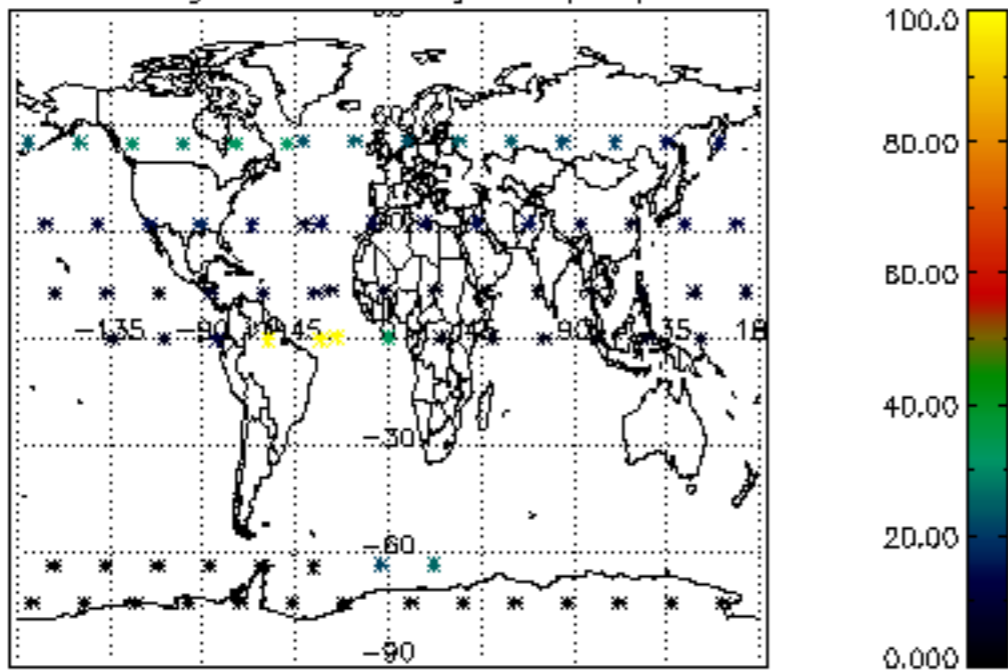




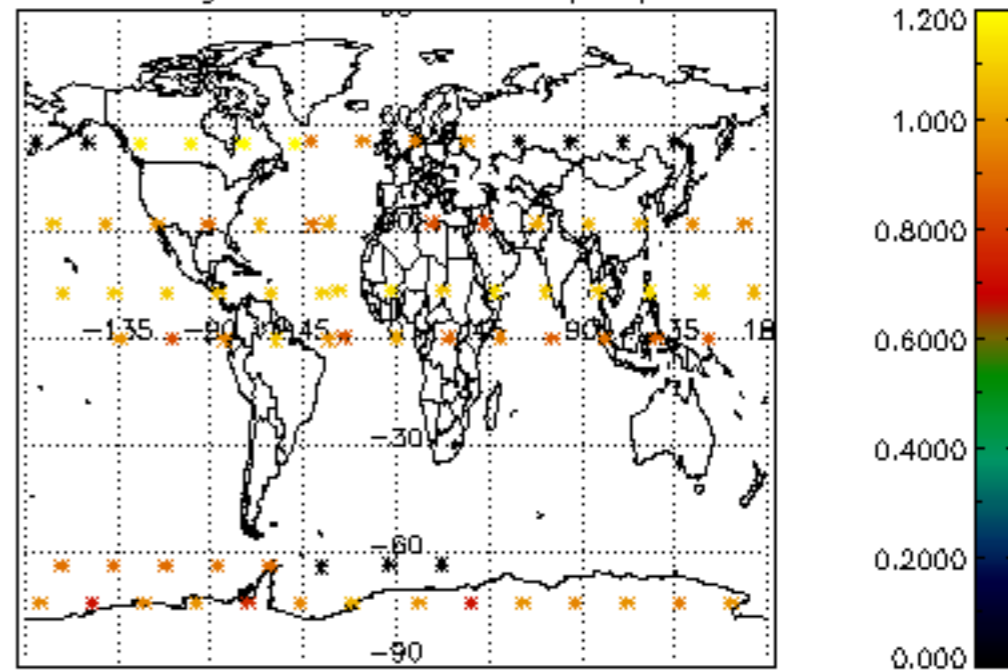




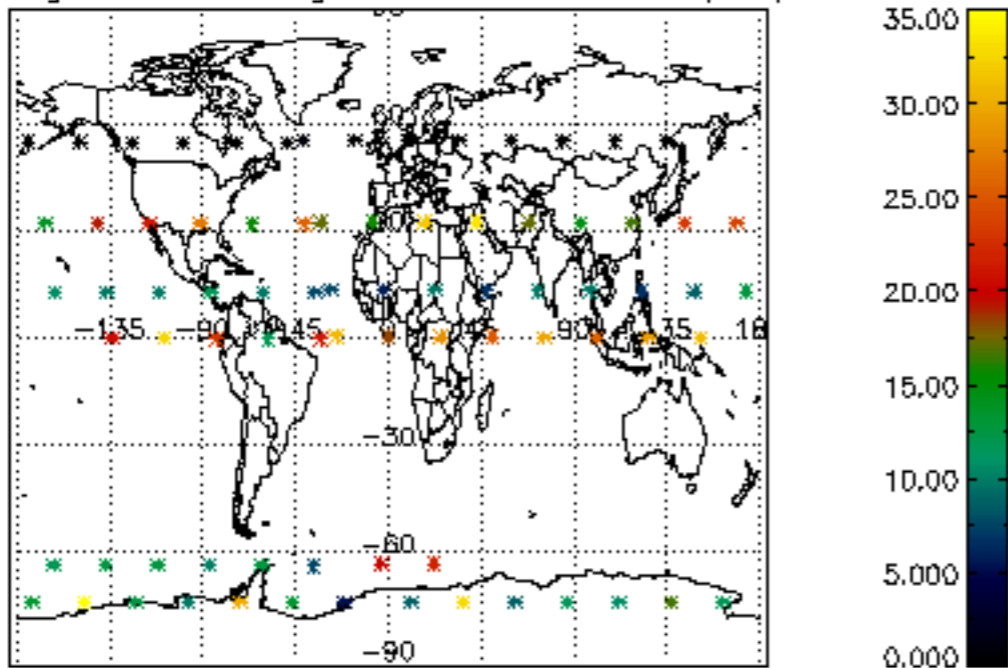
Percentage of cosmic ray hits per profile



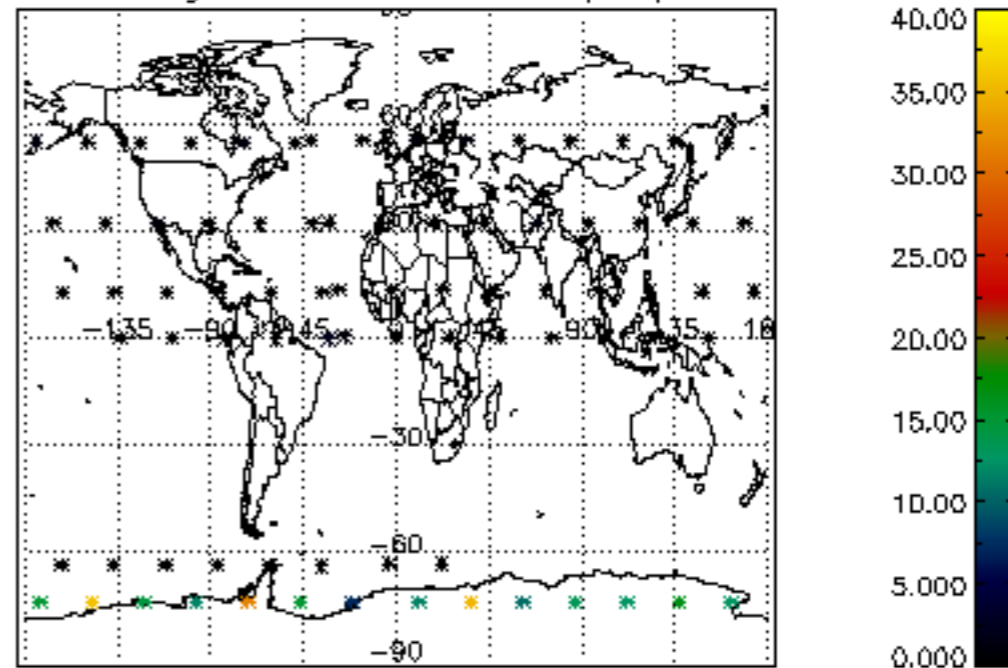
Percentage of datation errors per profile



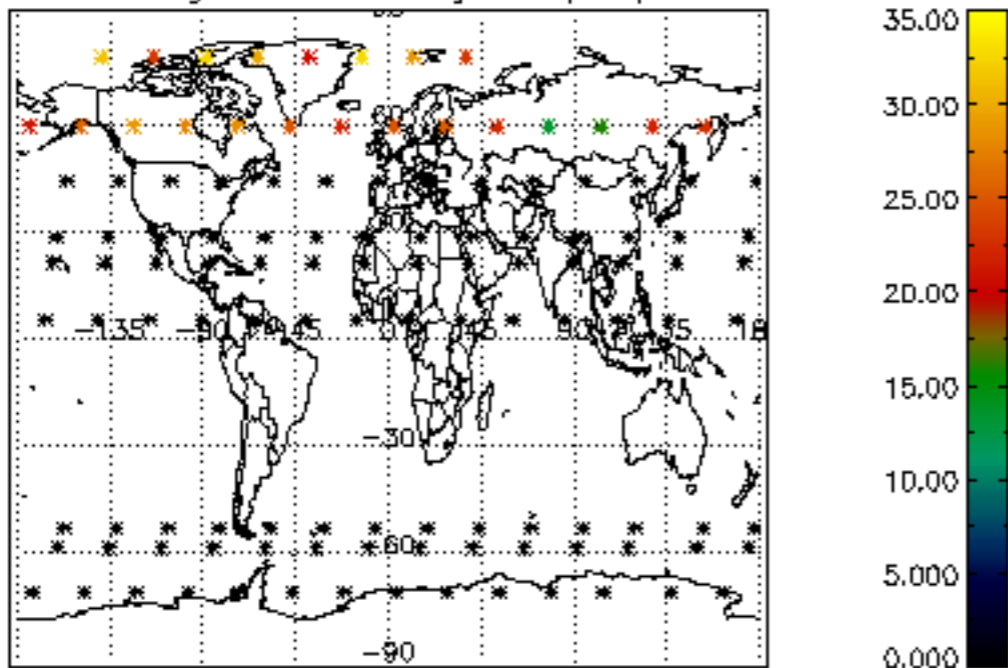
Percentage of star falling outside central band per profile



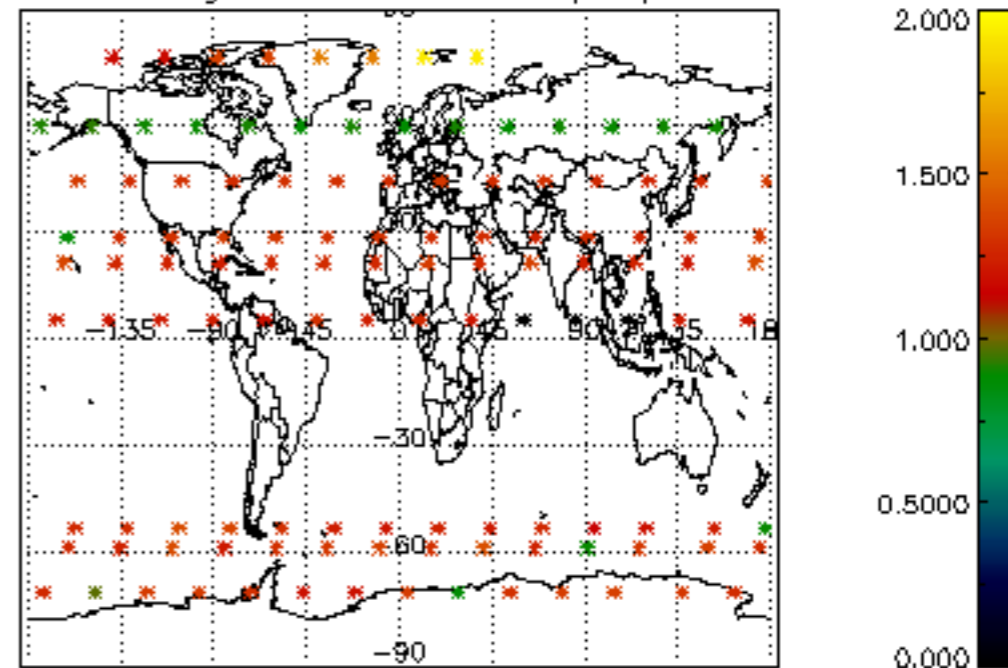
Percentage of saturation errors per profile



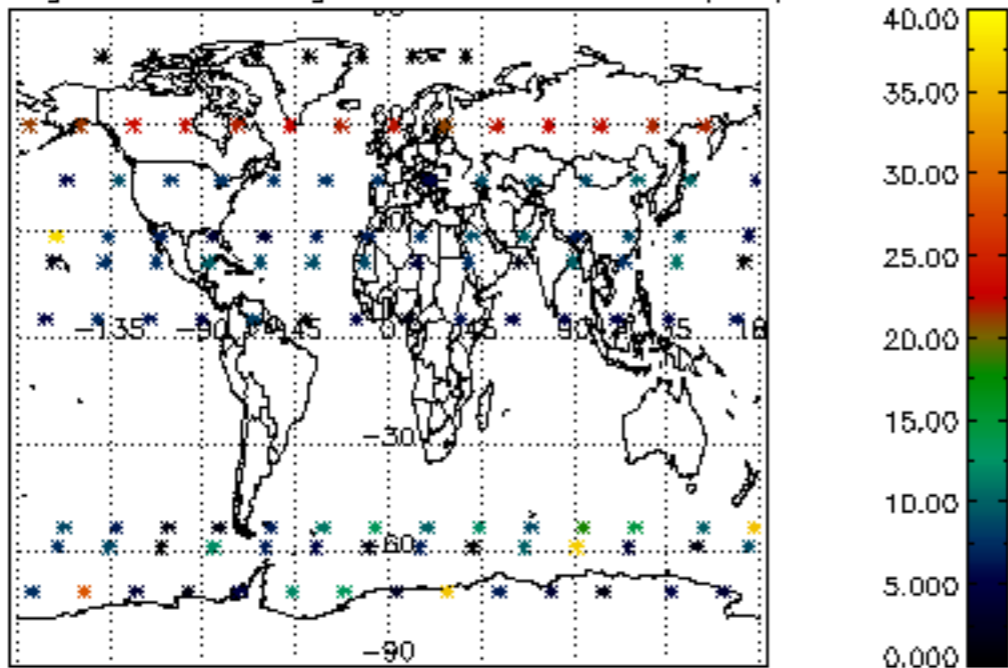
Percentage of cosmic ray hits per profile



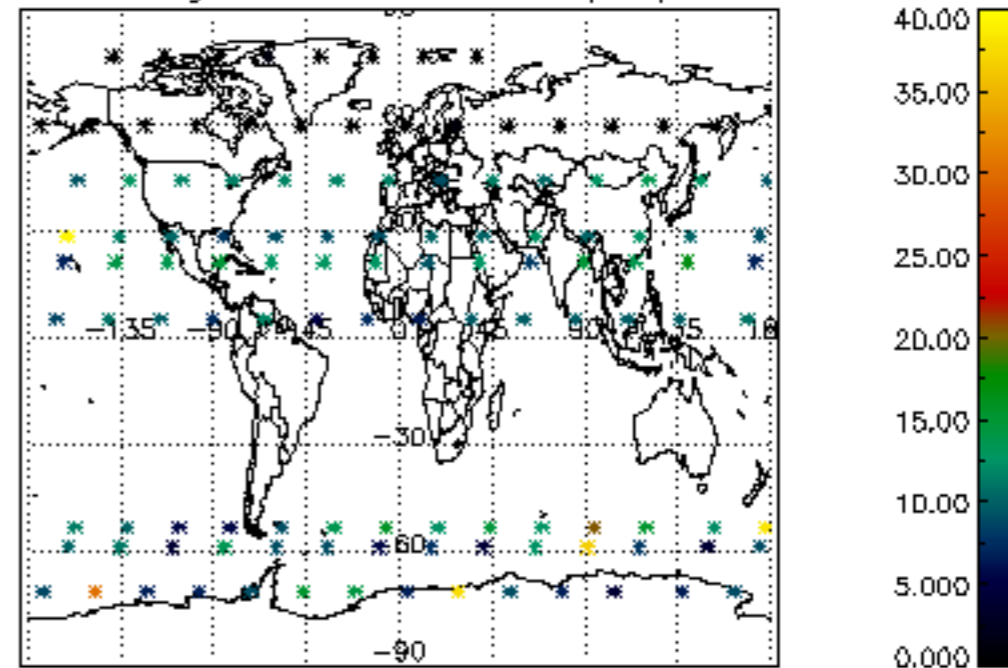
Percentage of datation errors per profile

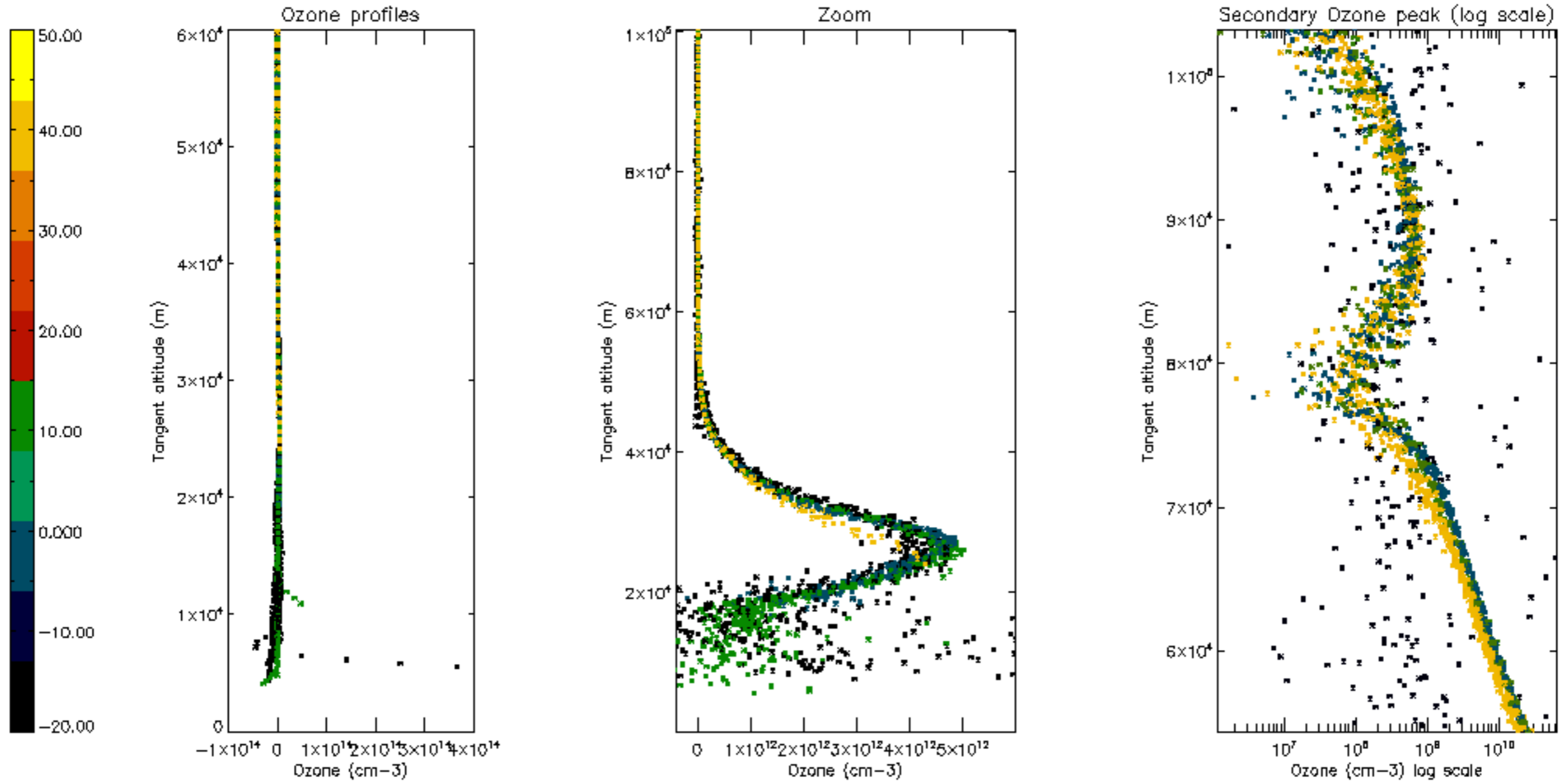


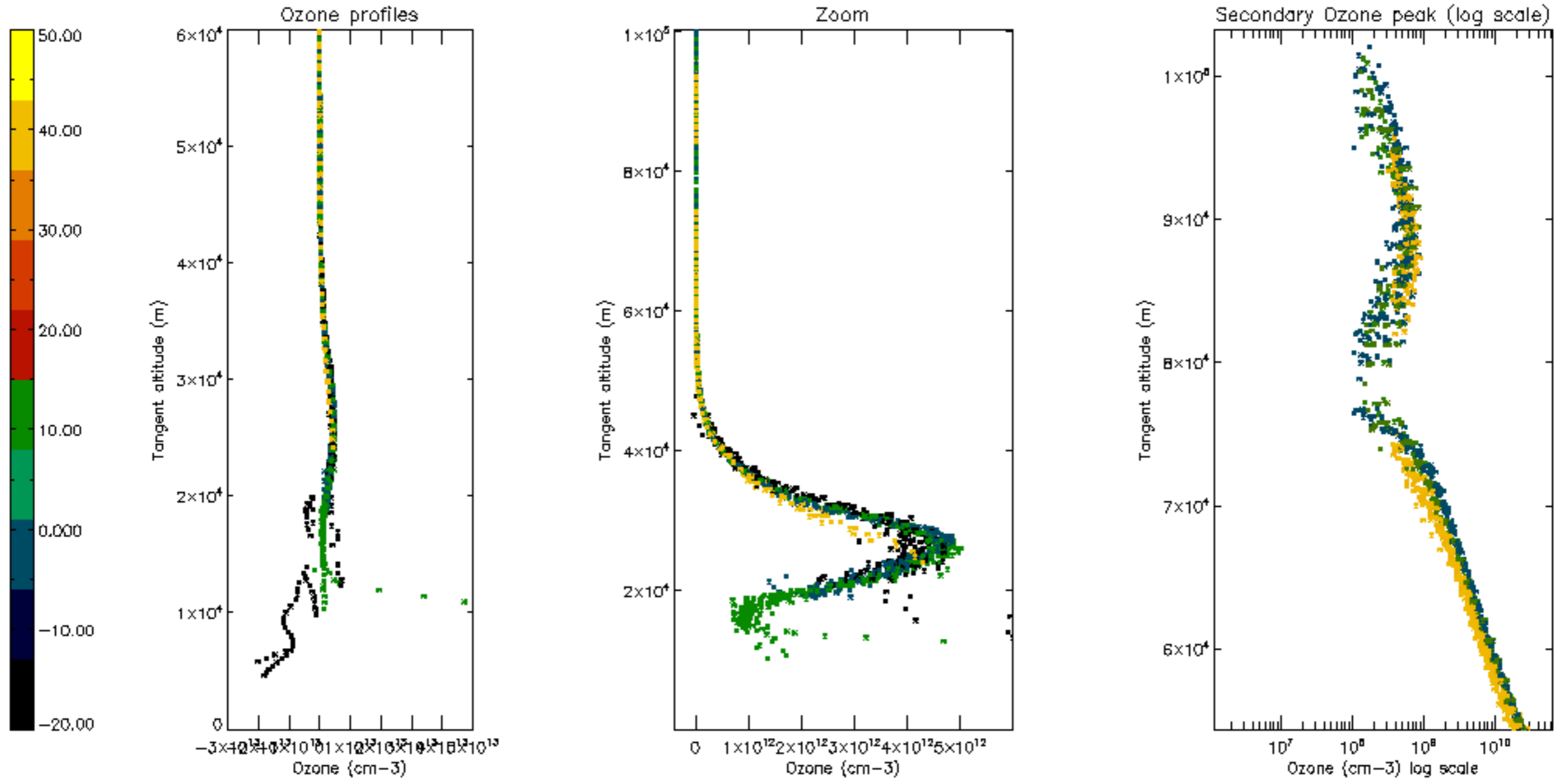
Percentage of star falling outside central band per profile

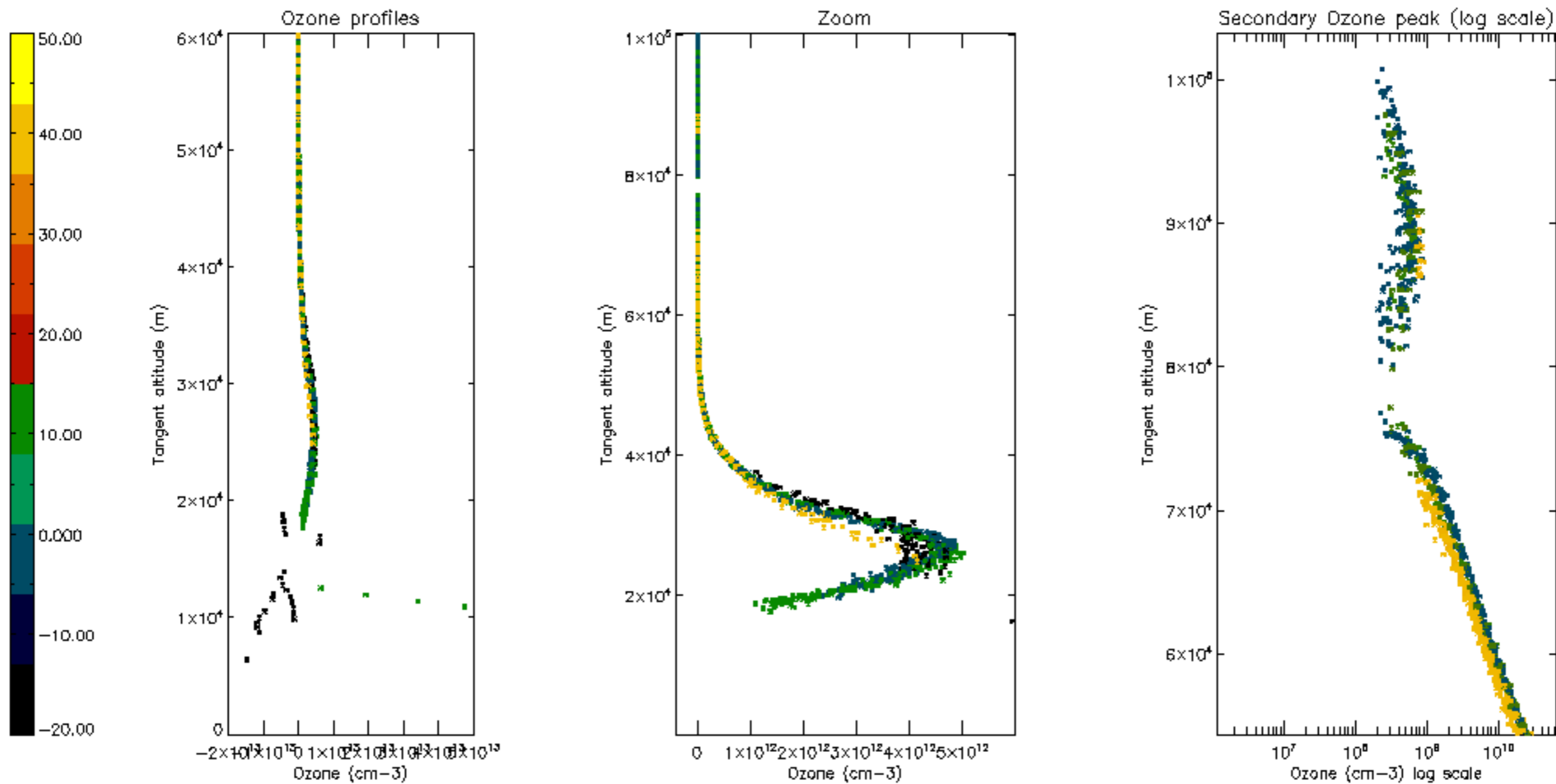


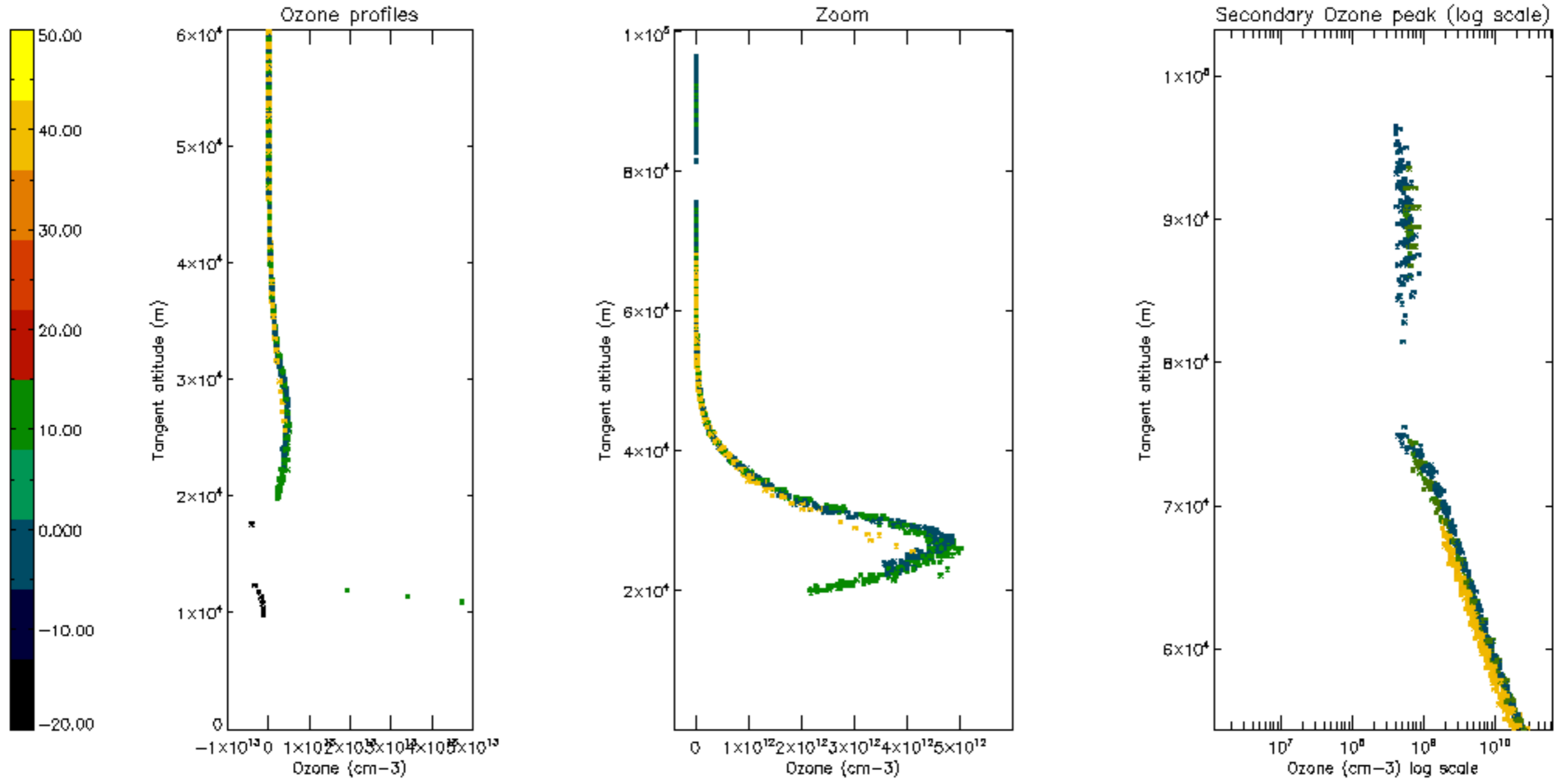
Percentage of saturation errors per profile

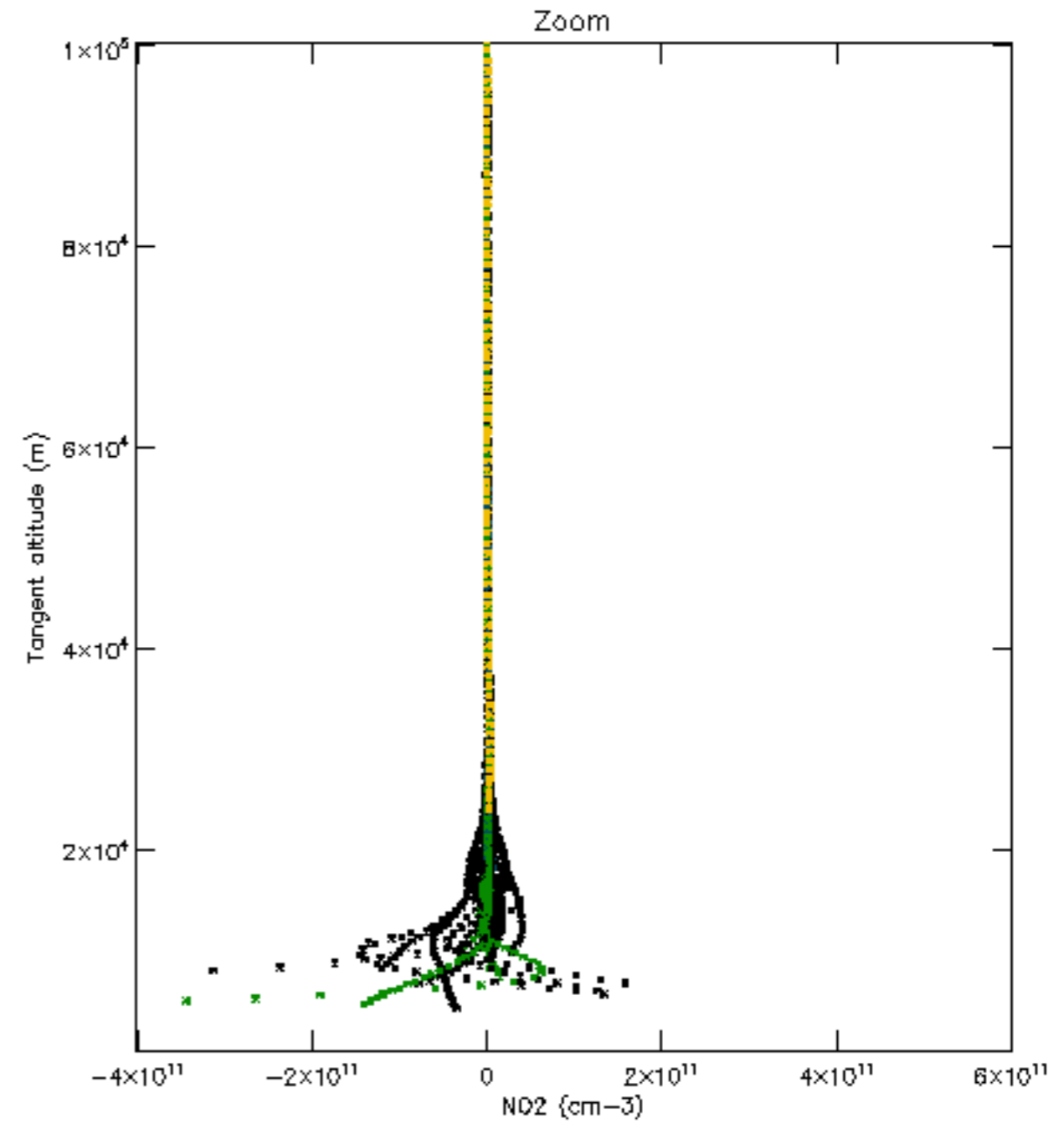
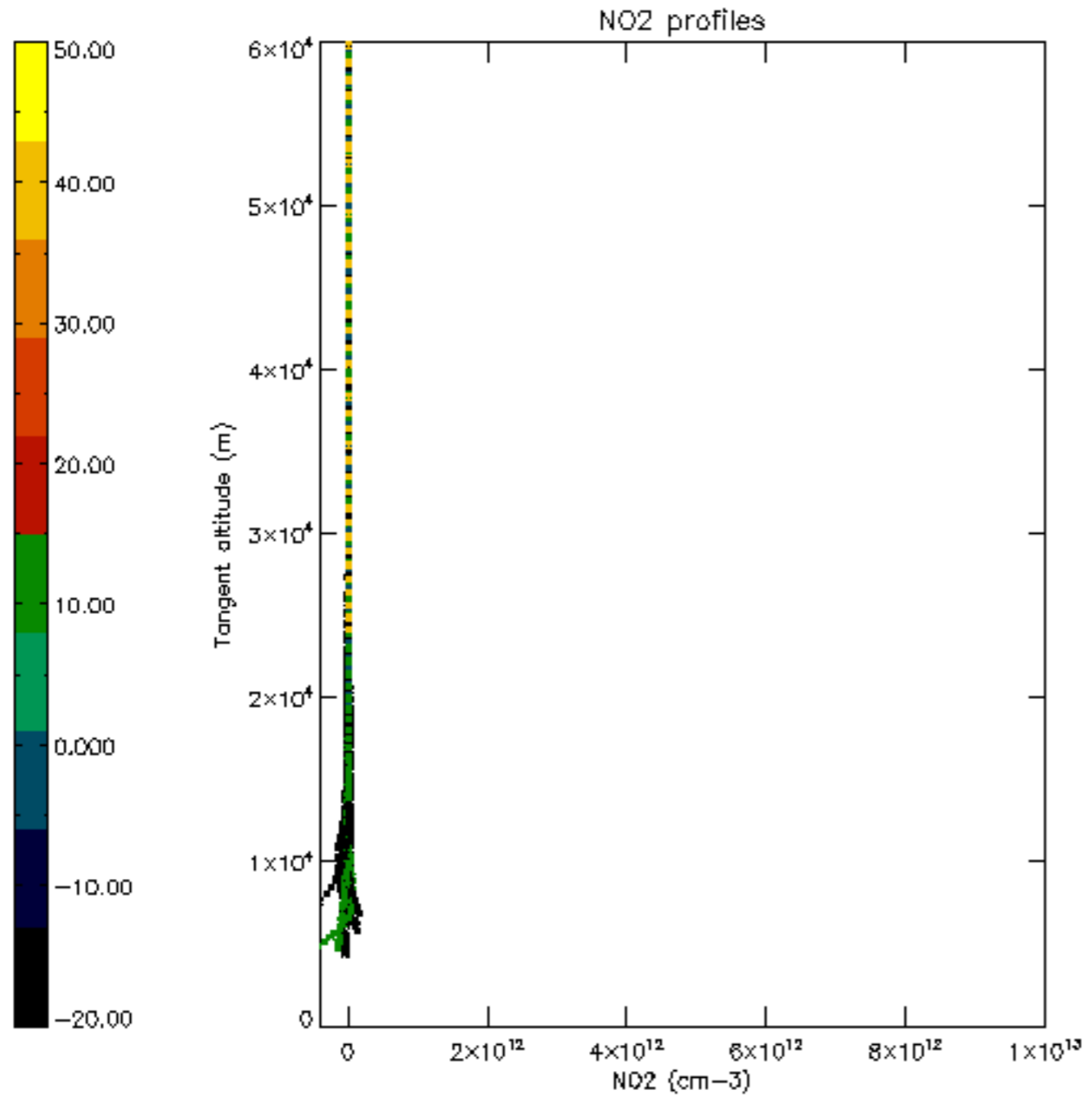


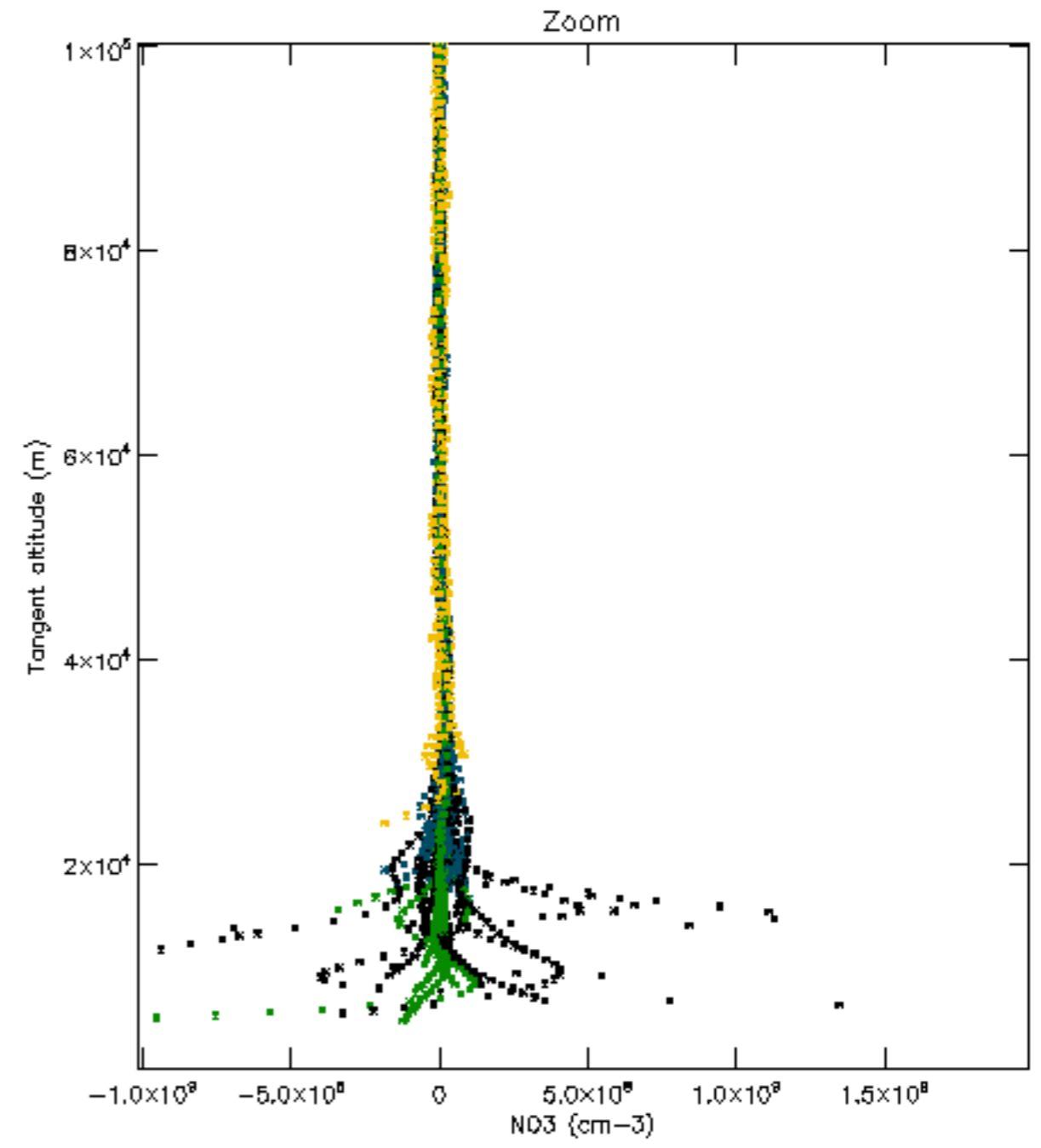
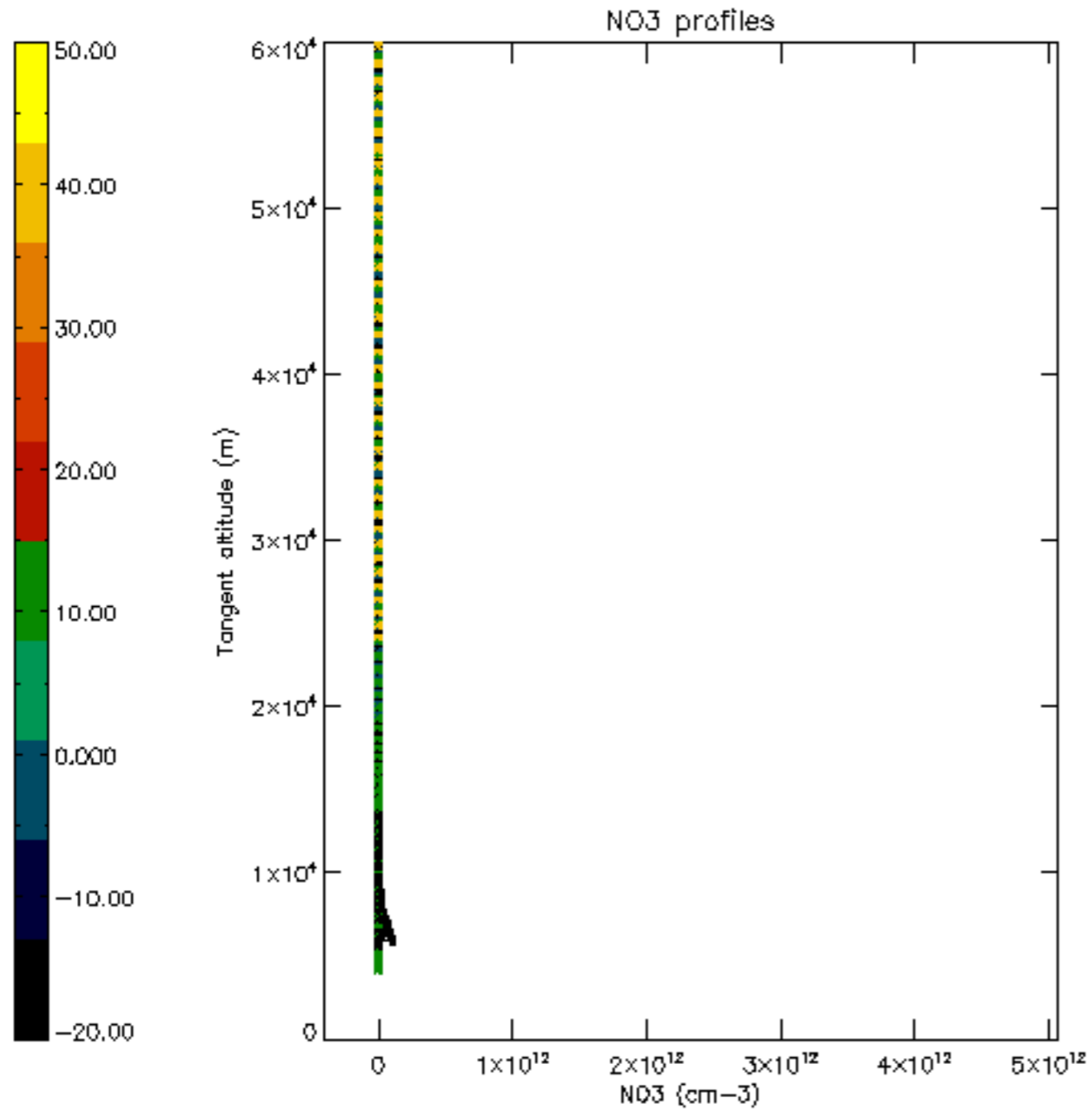




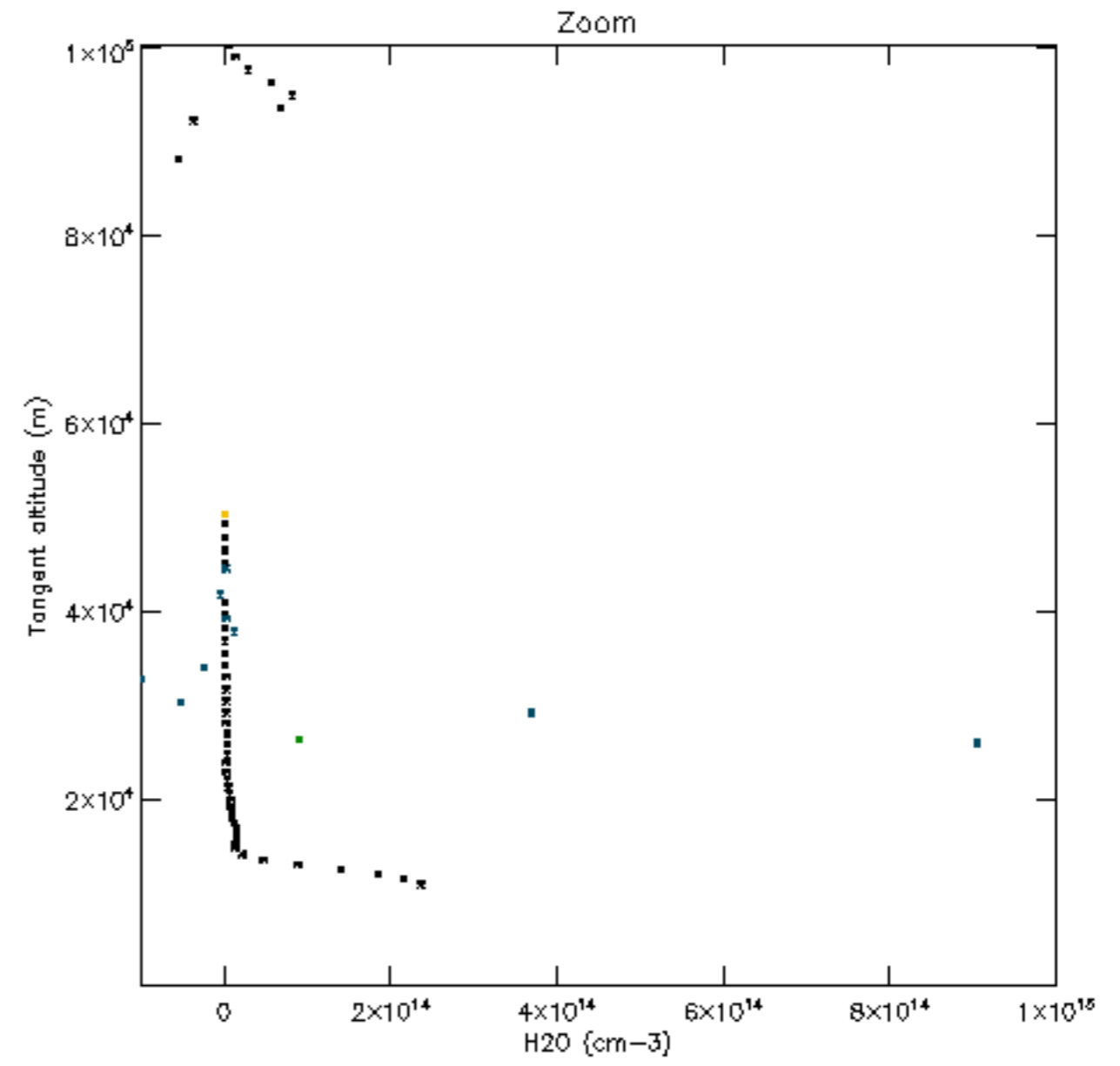
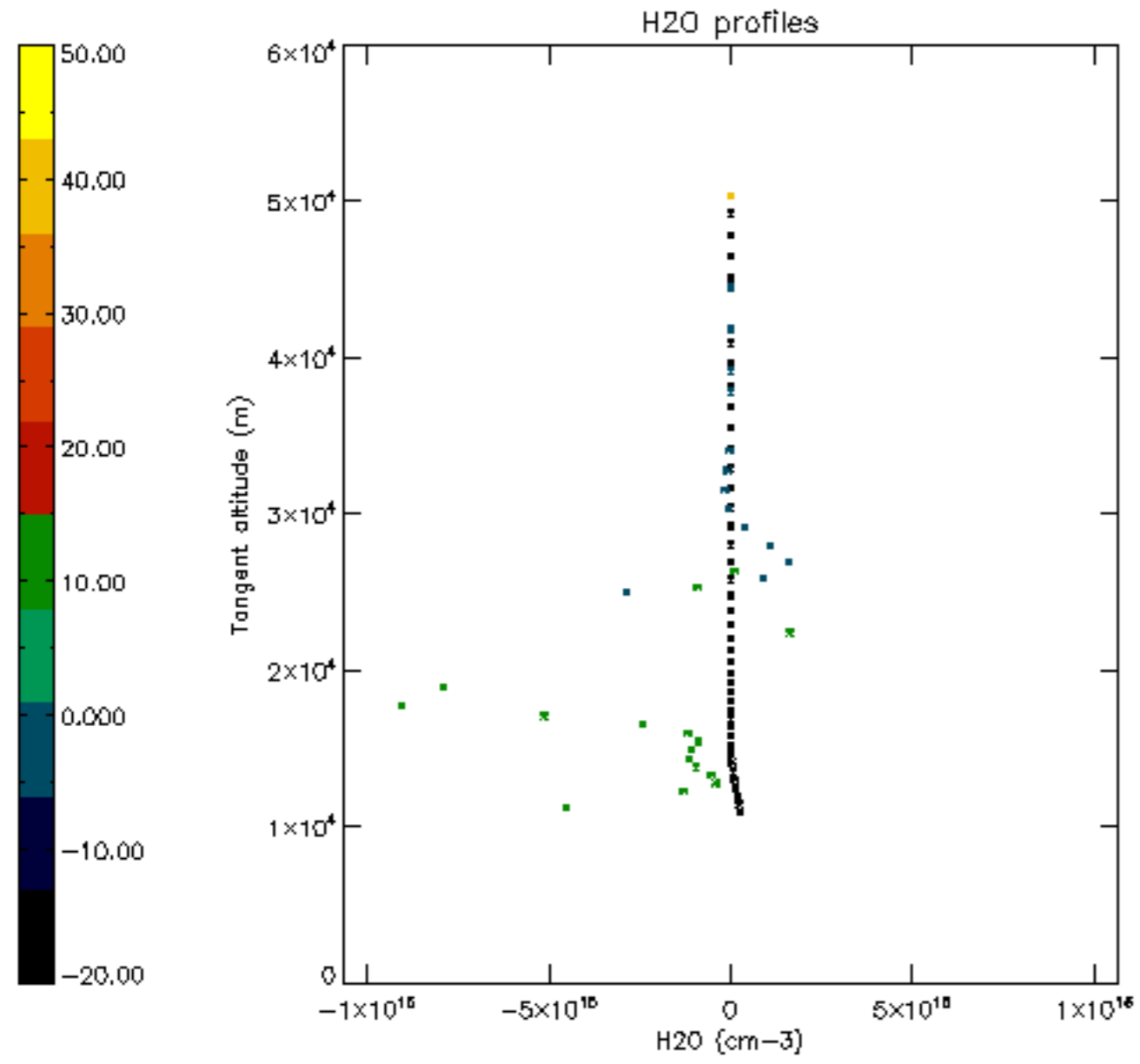


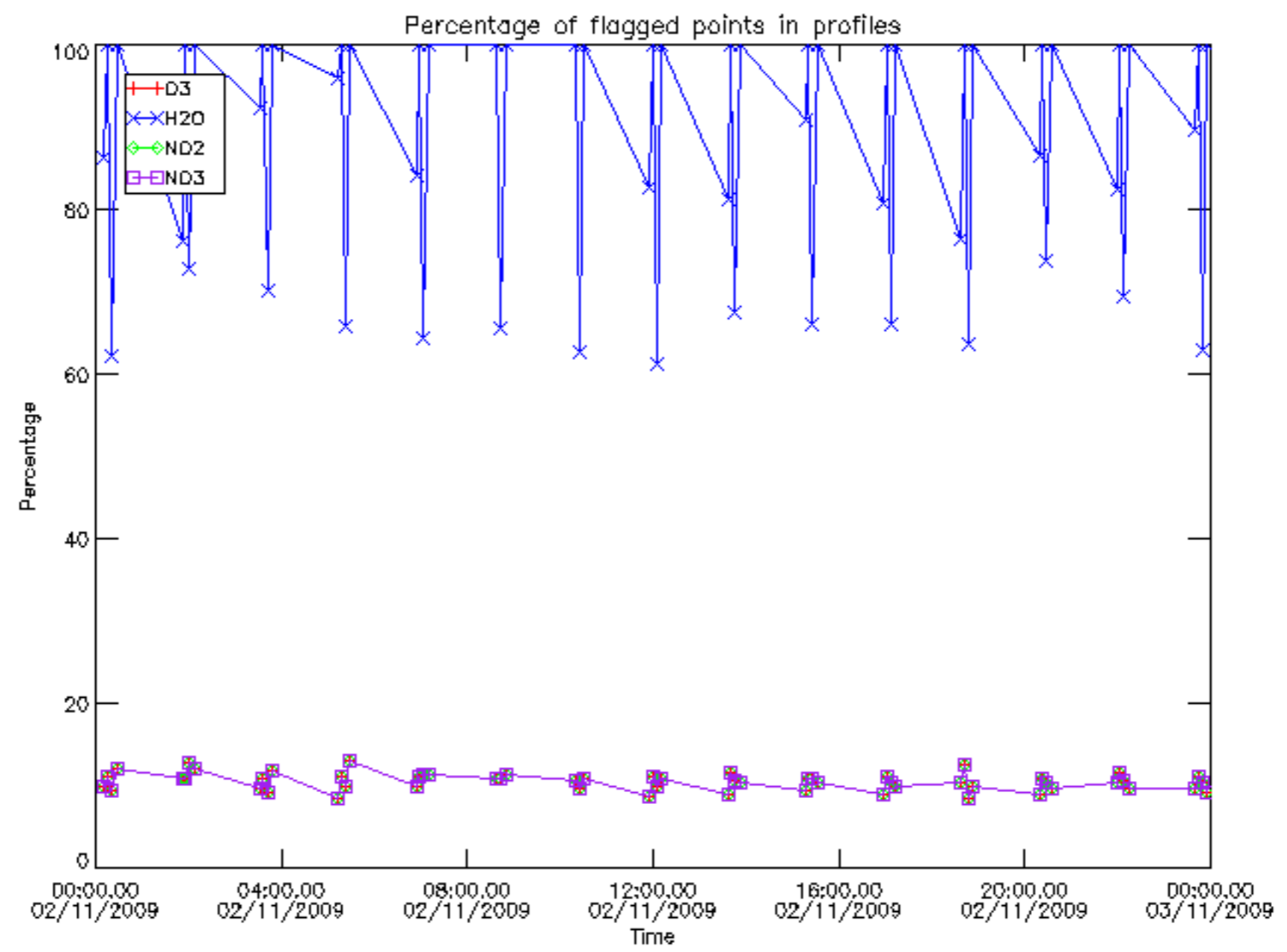




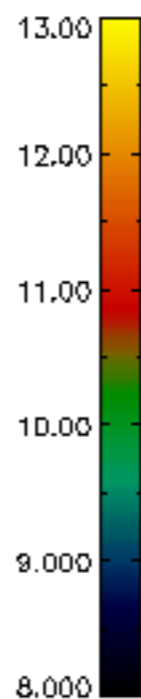
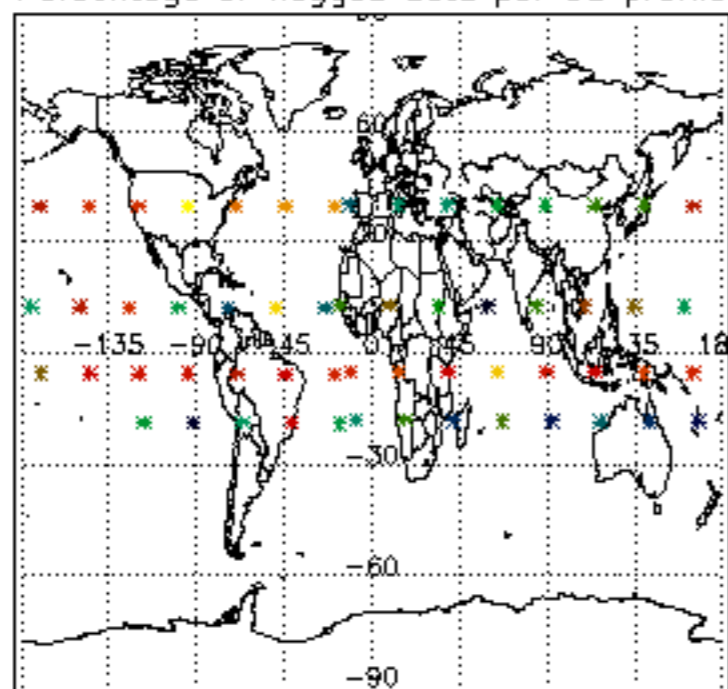




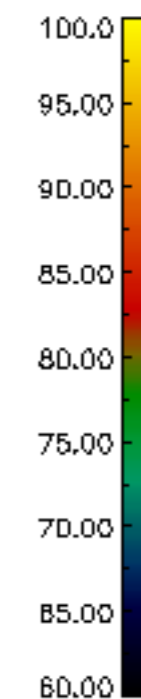
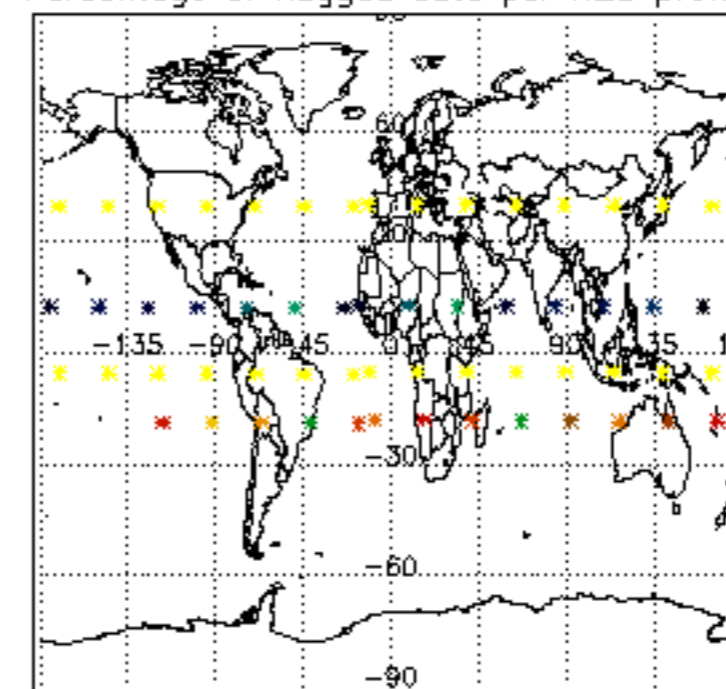




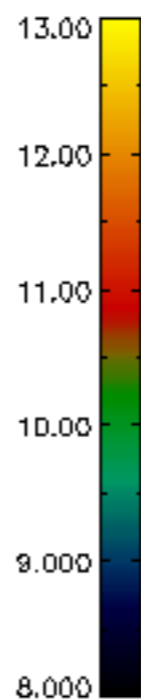
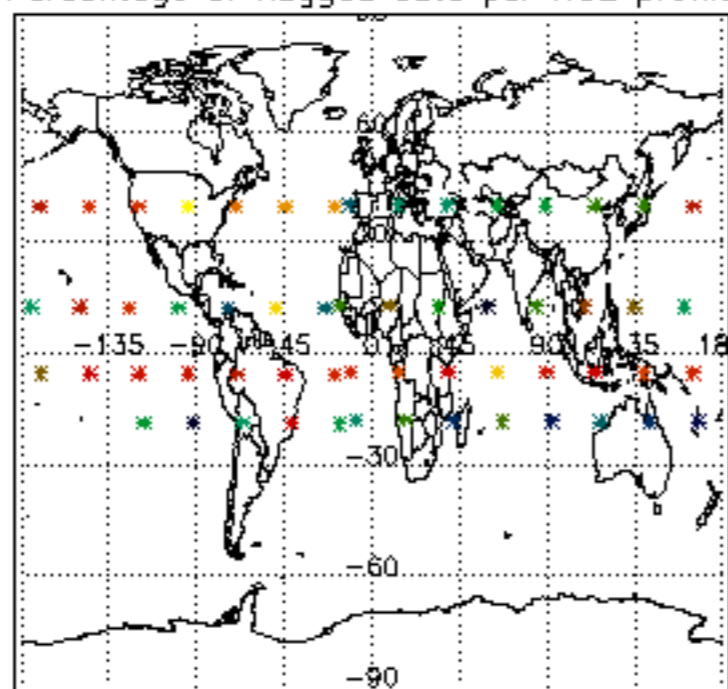
Percentage of flagged data per D3 profile



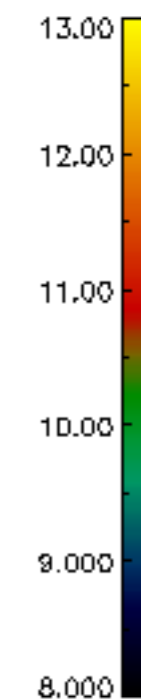
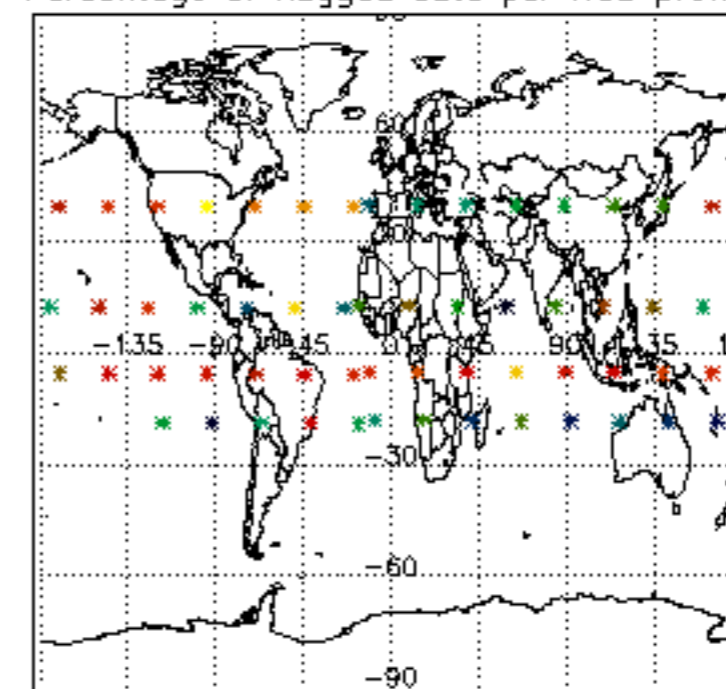
Percentage of flagged data per H2O profile

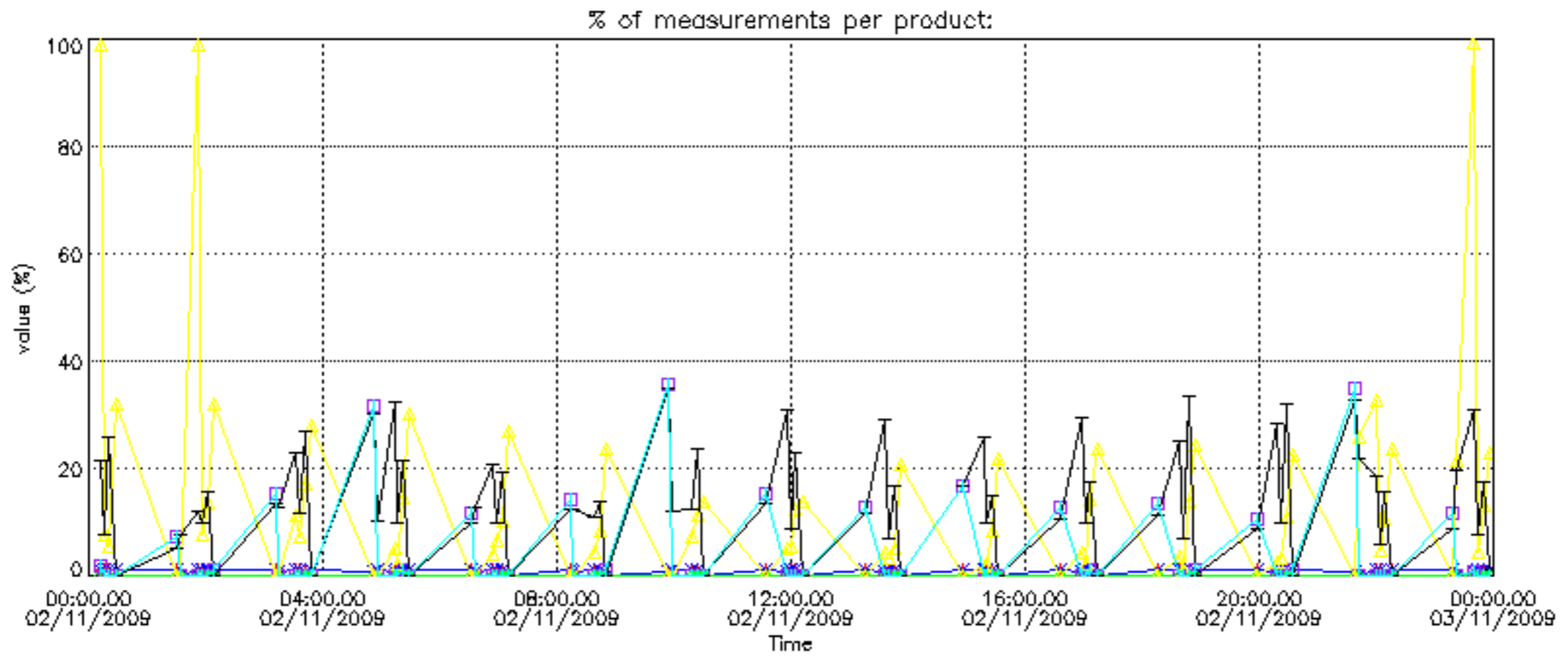


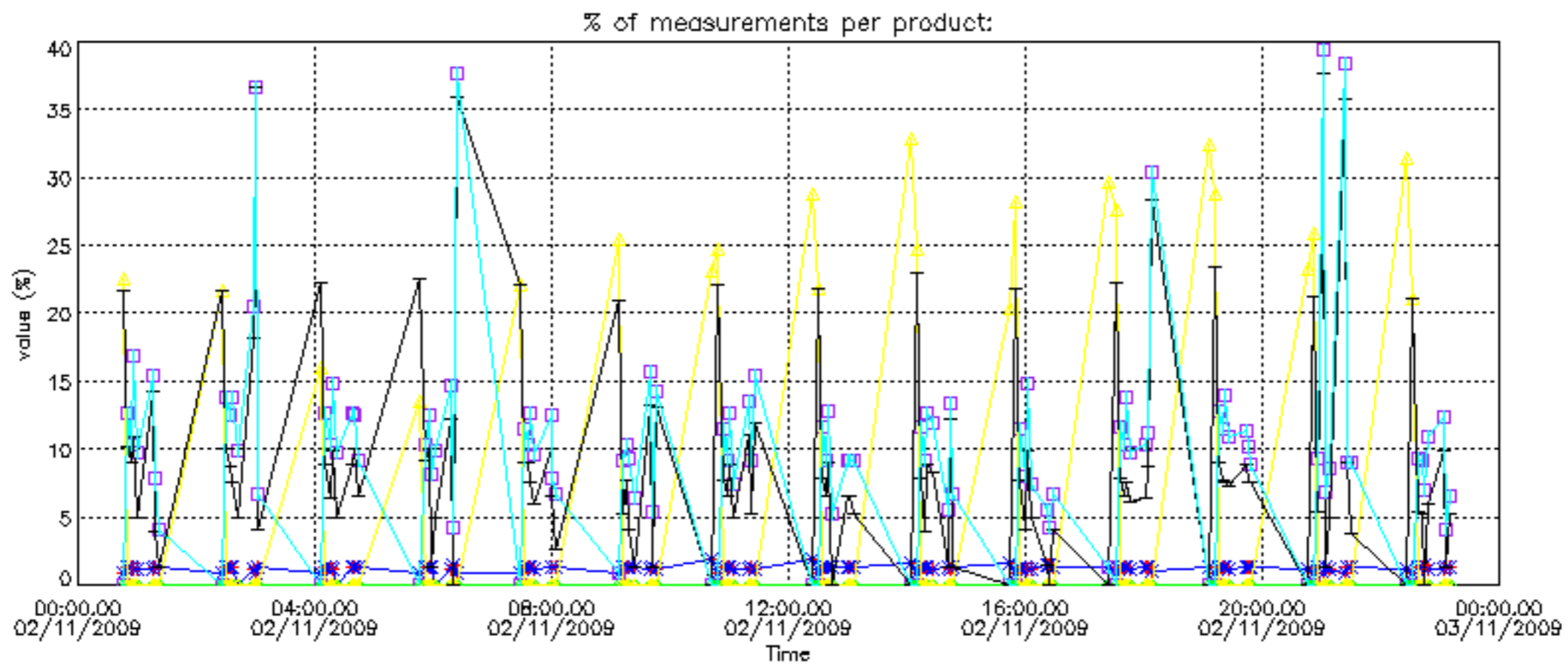
Percentage of flagged data per NO2 profile



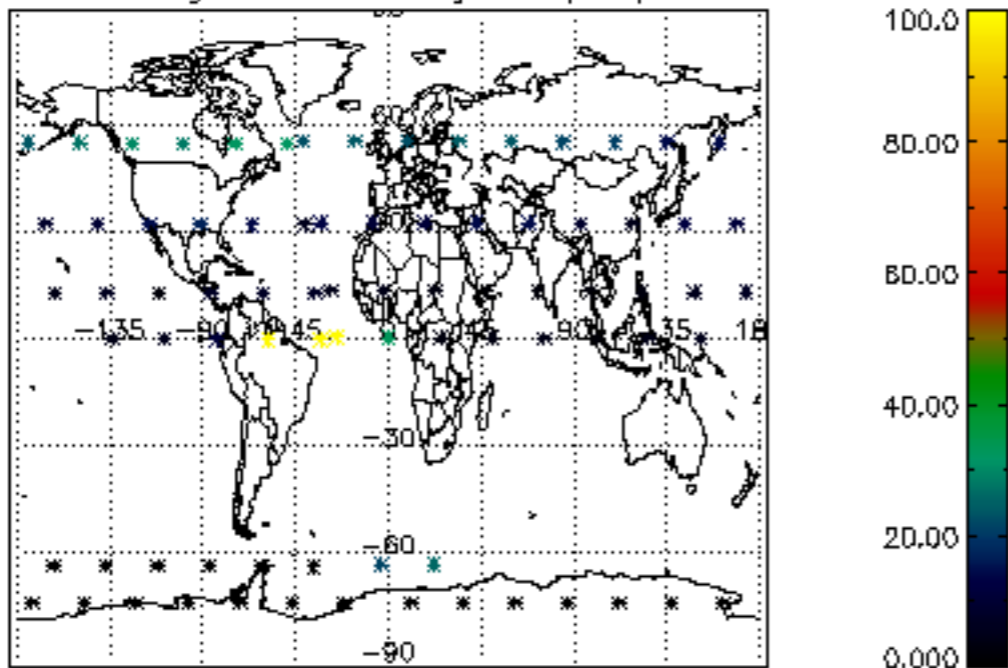
Percentage of flagged data per NO3 profile



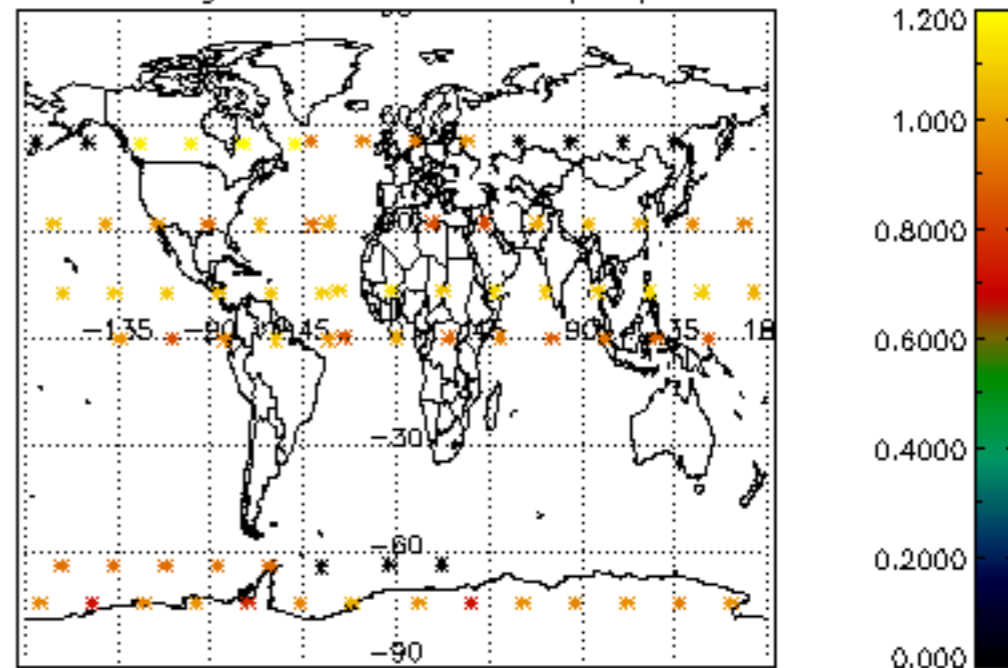




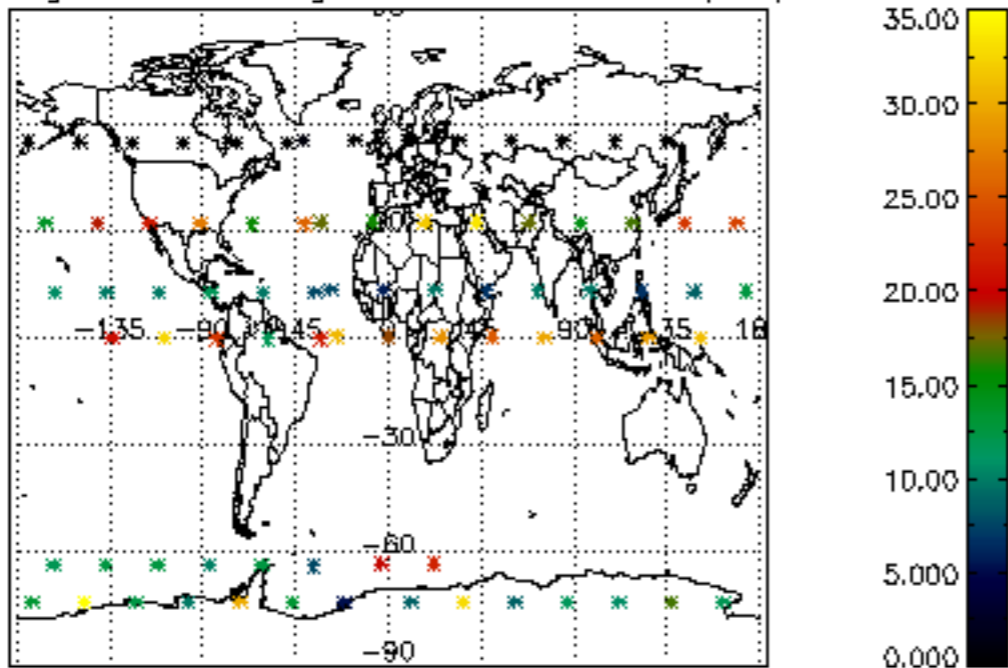
Percentage of cosmic ray hits per profile



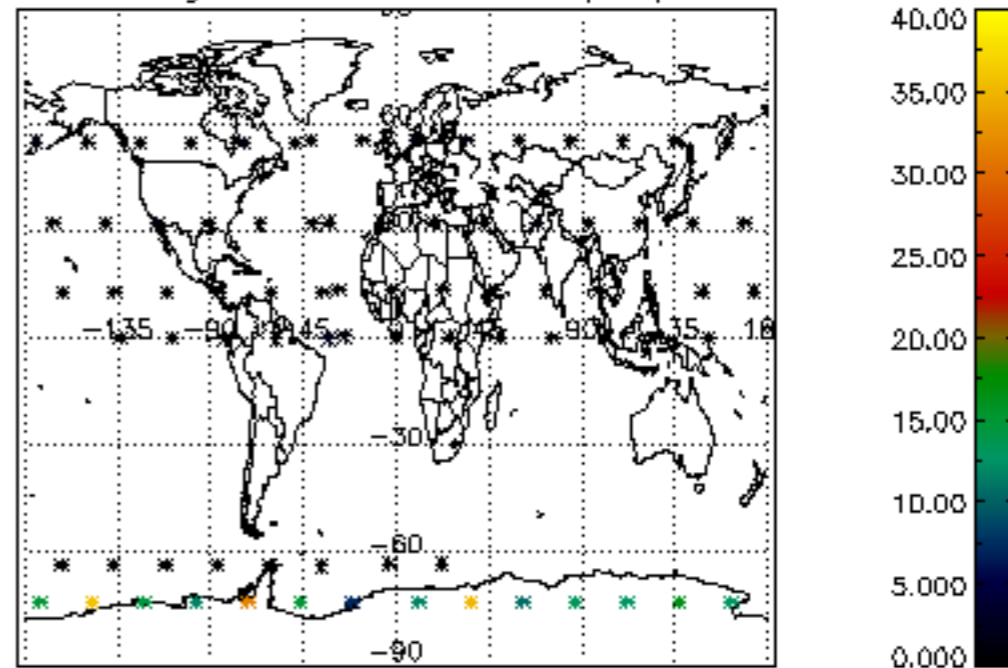
Percentage of datation errors per profile



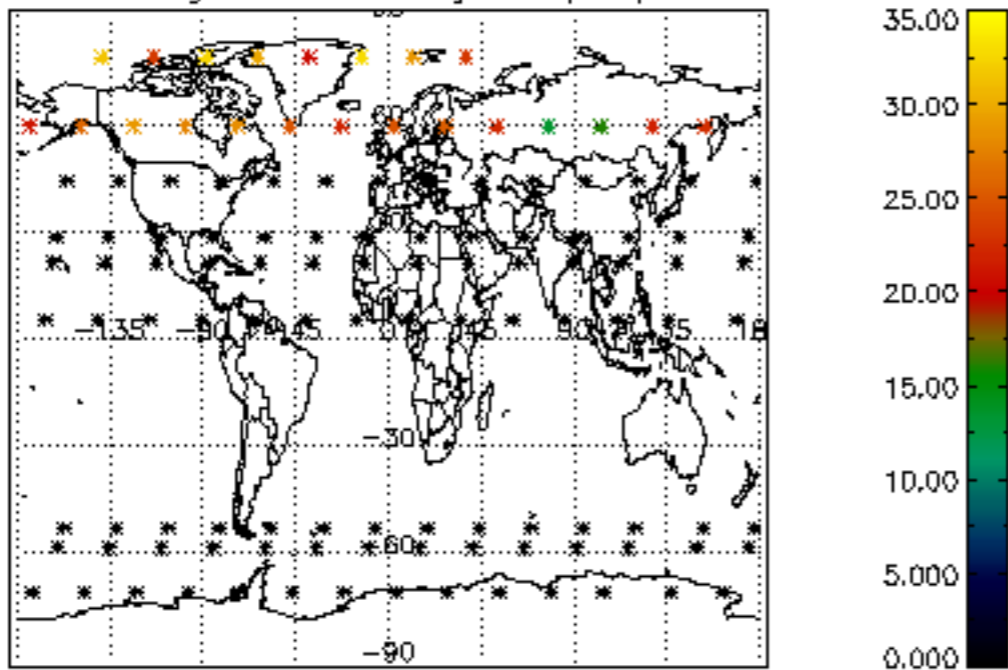
Percentage of star falling outside central band per profile



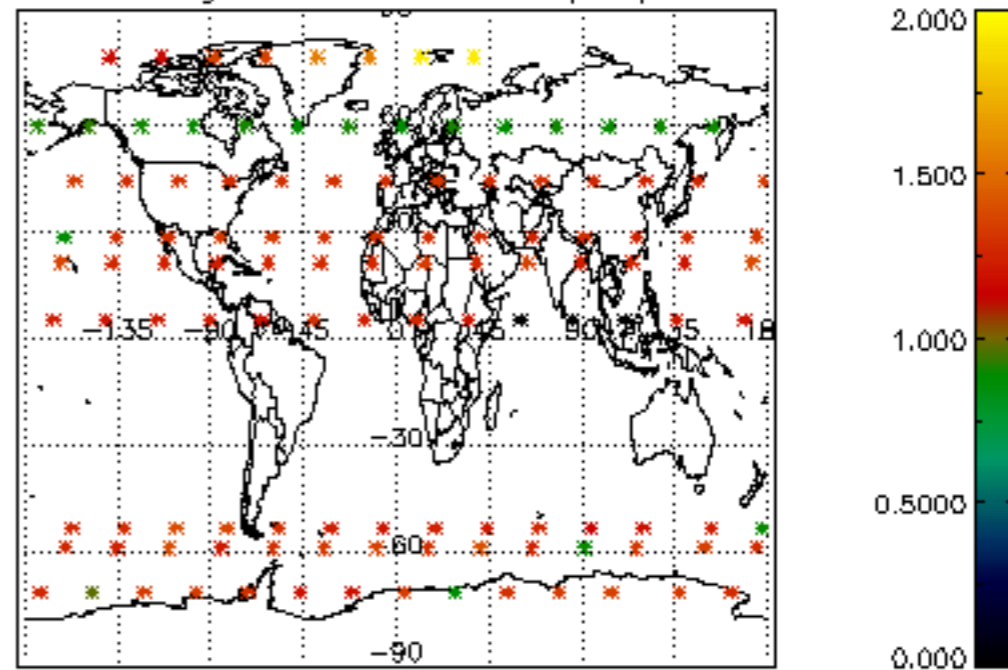
Percentage of saturation errors per profile



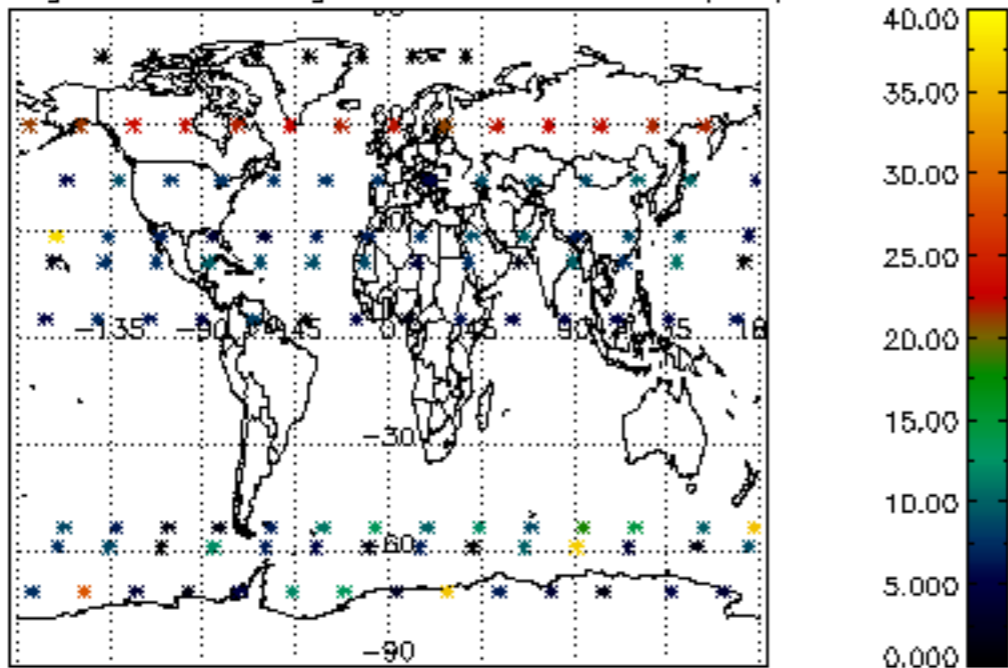
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

