

GOMOS Level 2 Daily Report

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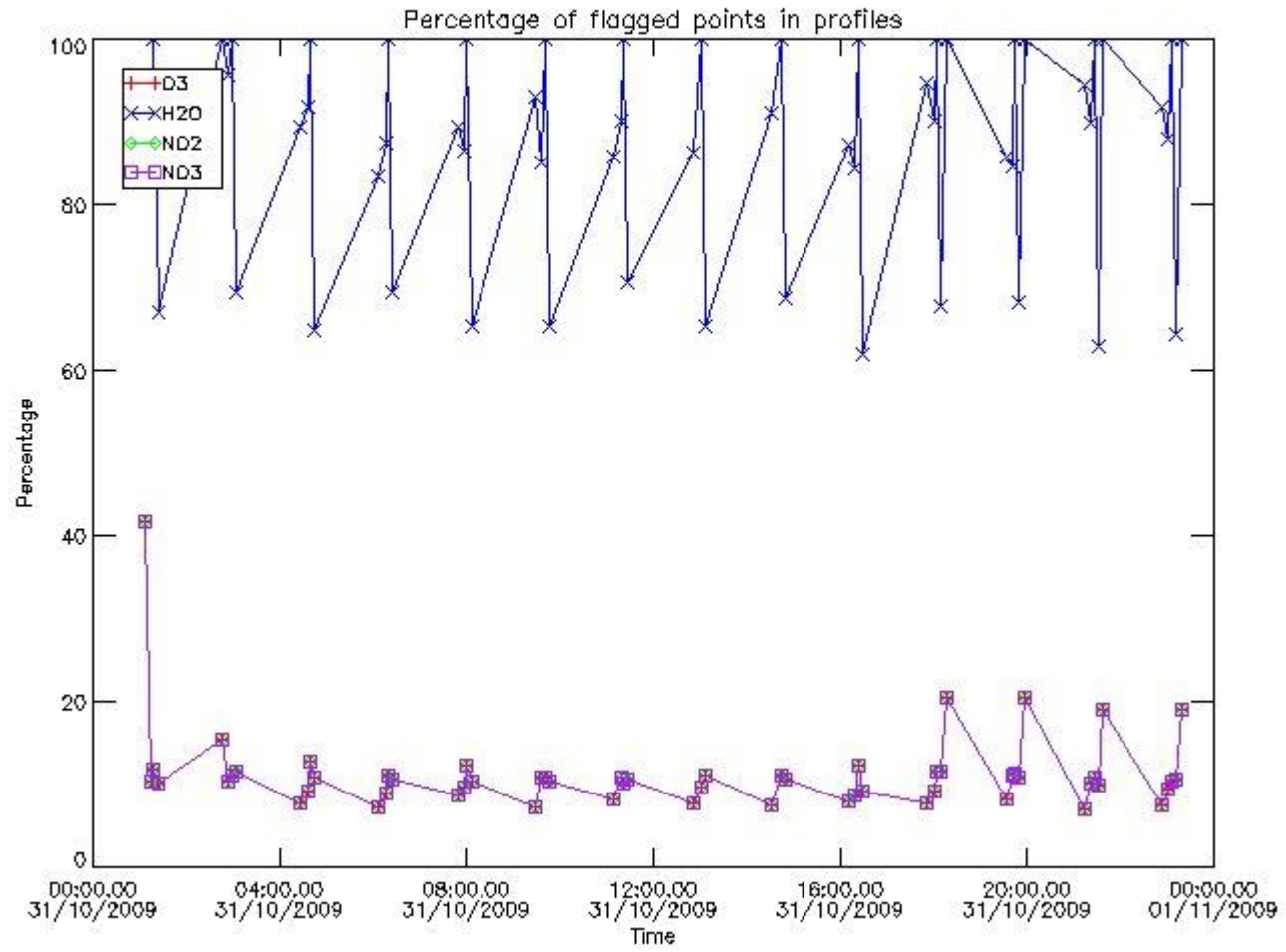
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3. Quality information per product

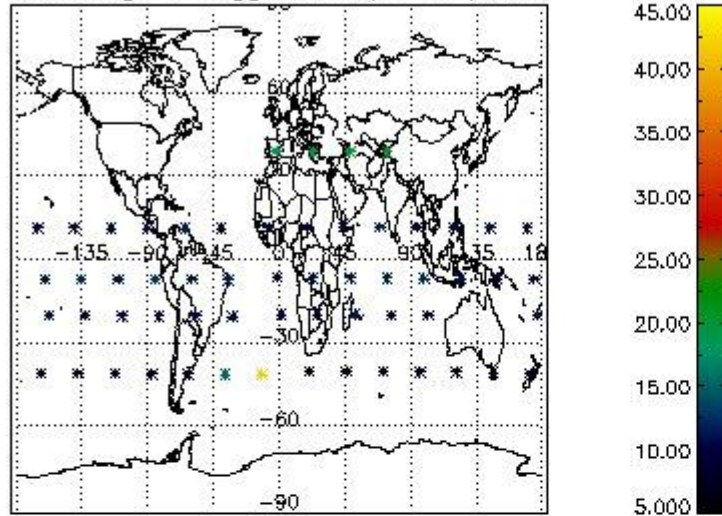
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

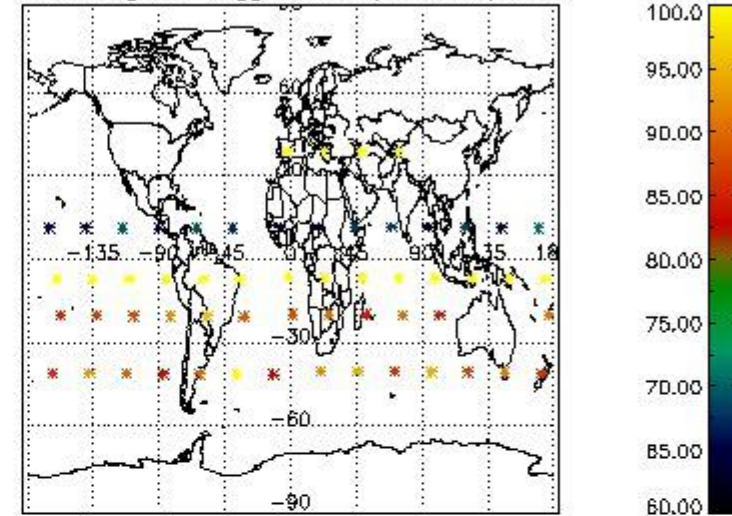


3.2 Plot quality information per product (world map)

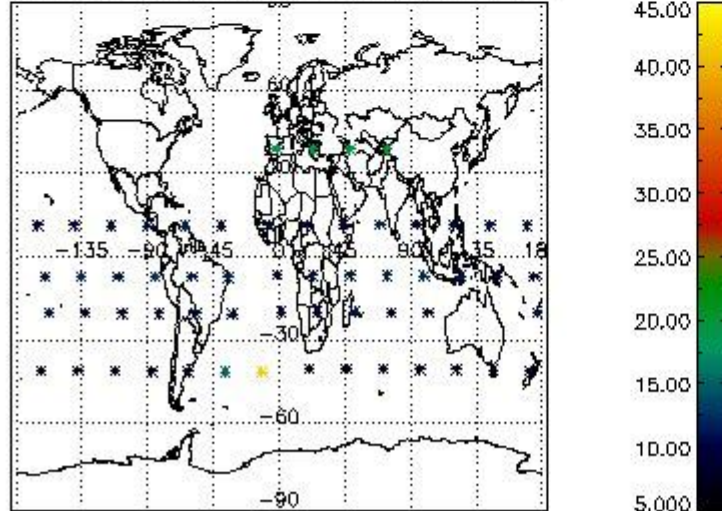
Percentage of flagged data per O3 profile



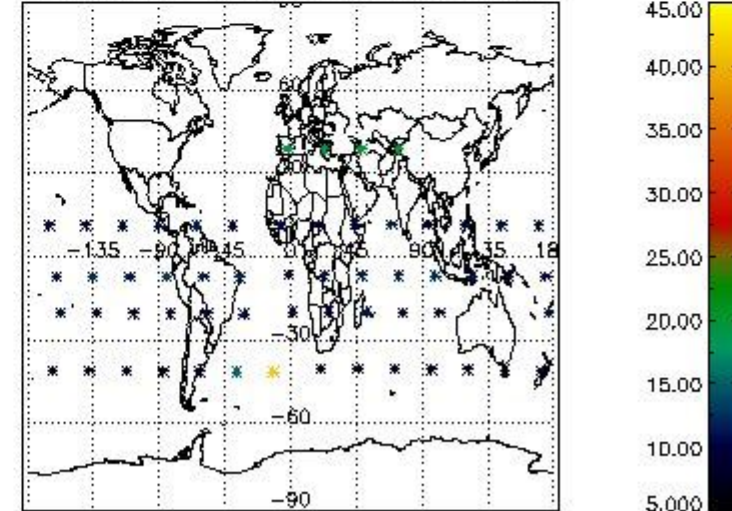
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

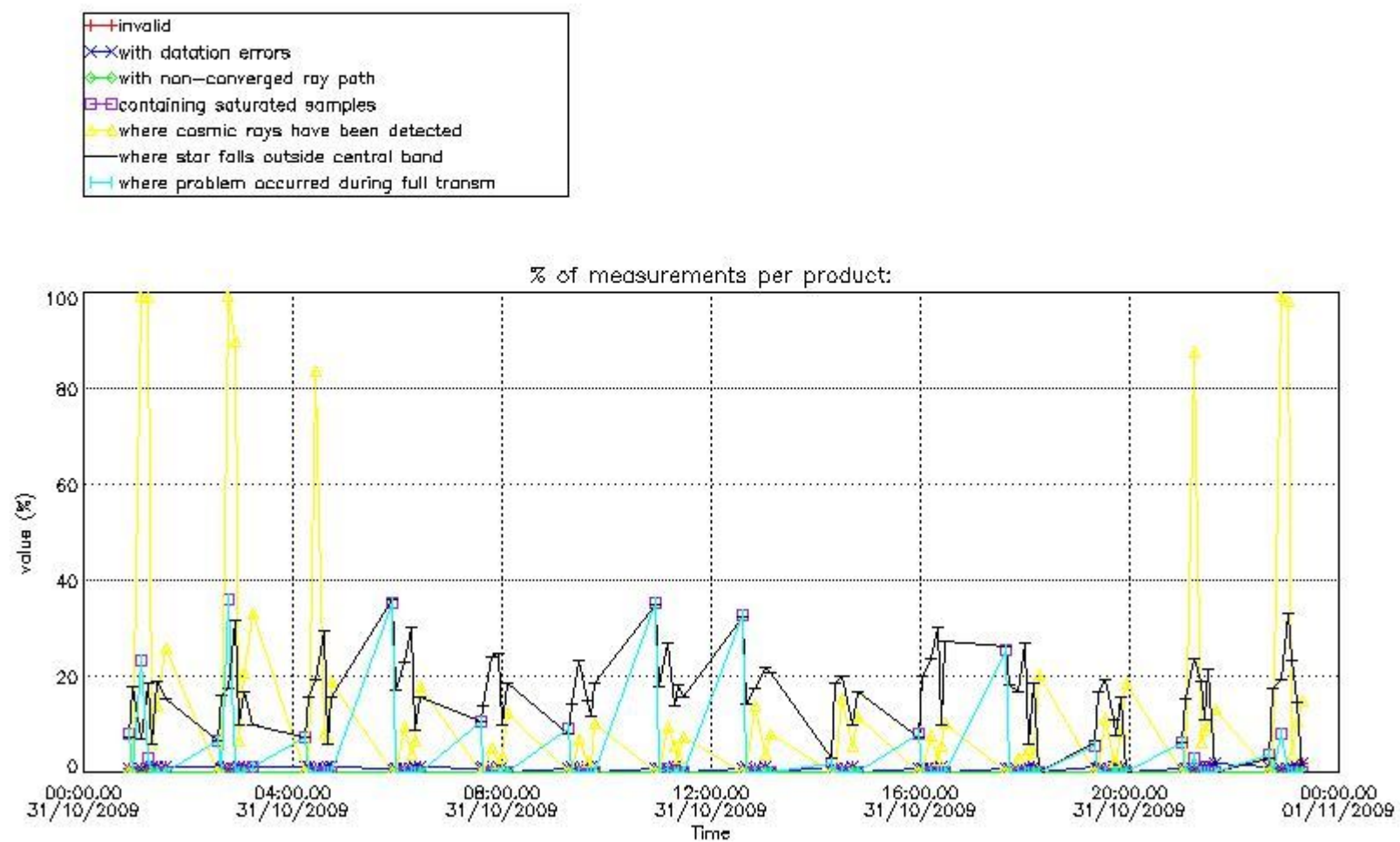


4. Level 1 quality information per product

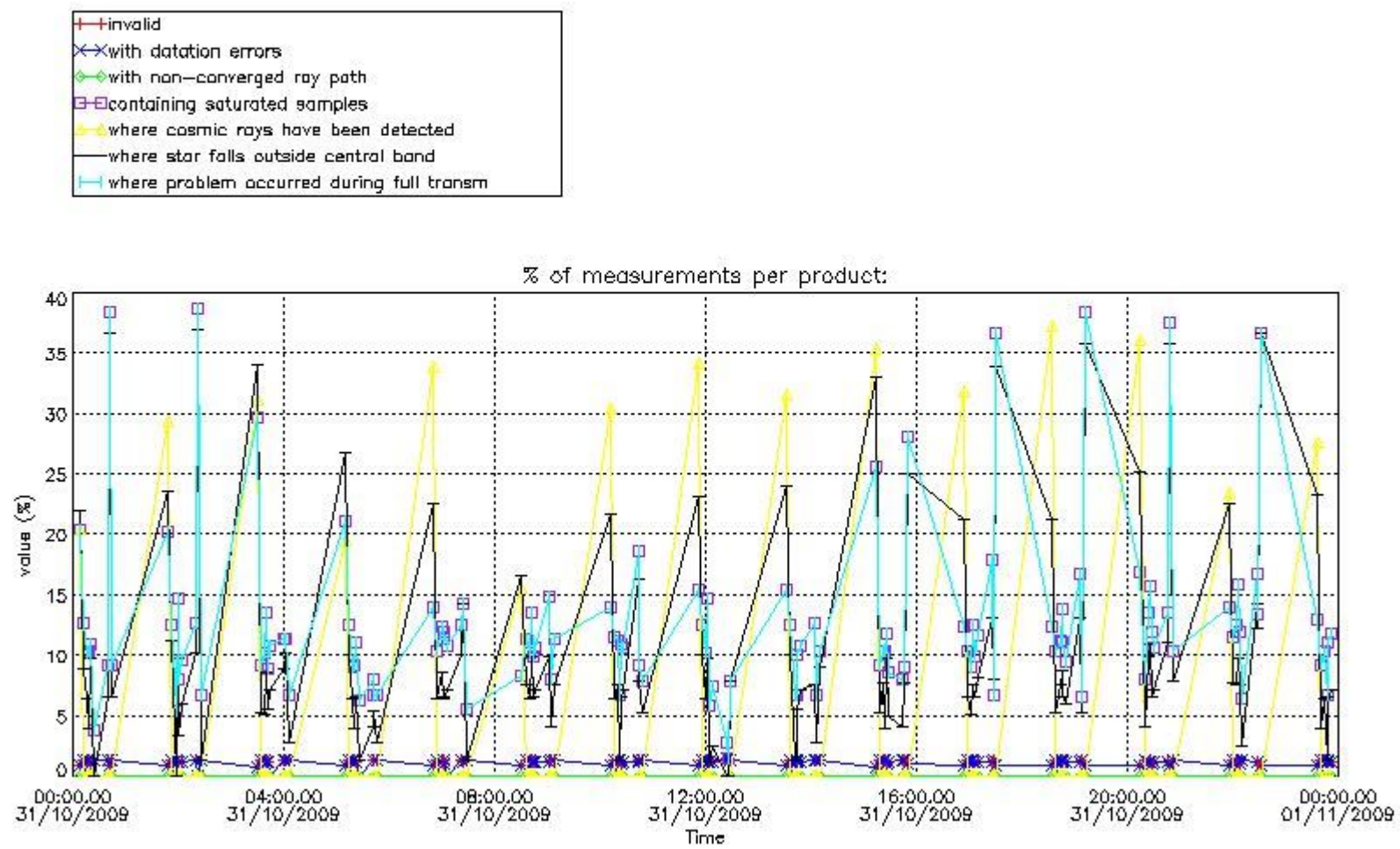
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



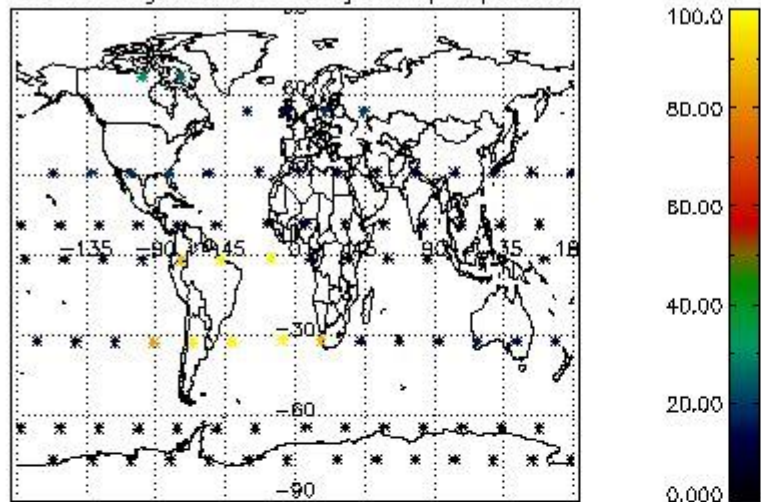
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



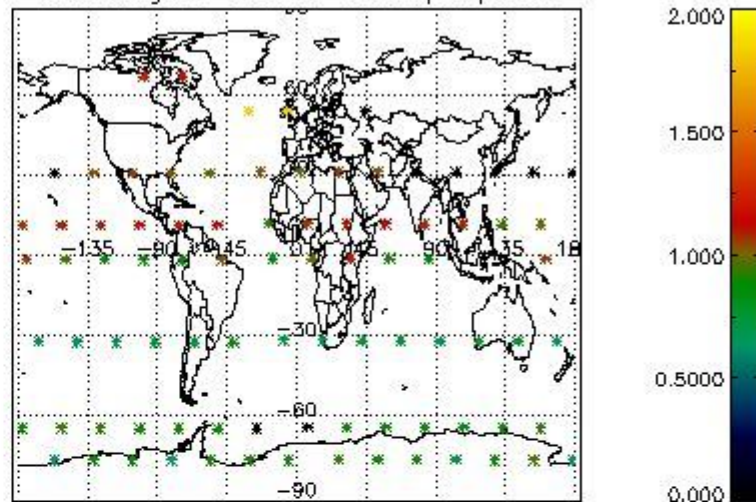
4.2 Plot quality information per product coming from level 1b processing (world map)

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

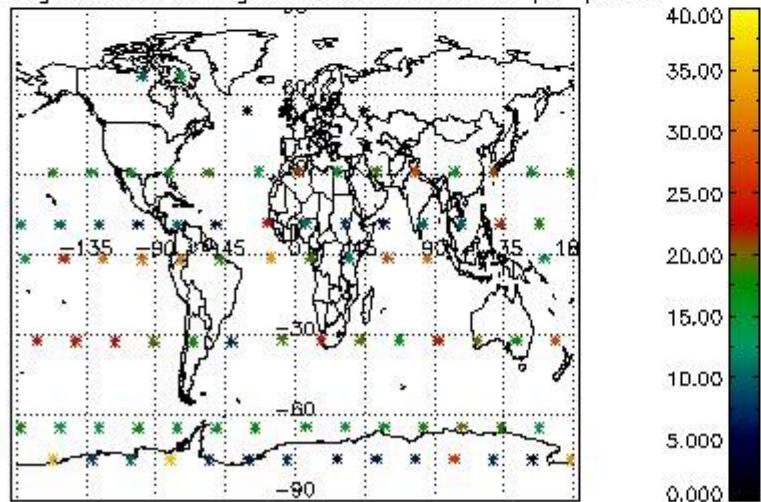
Percentage of cosmic ray hits per profile



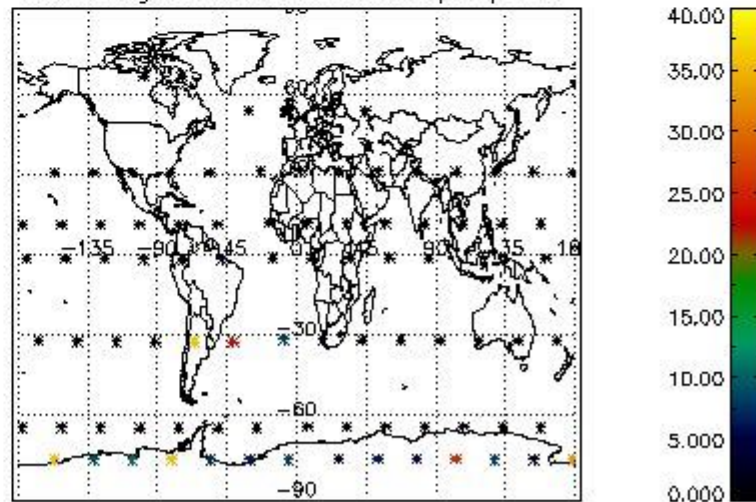
Percentage of datation errors per profile



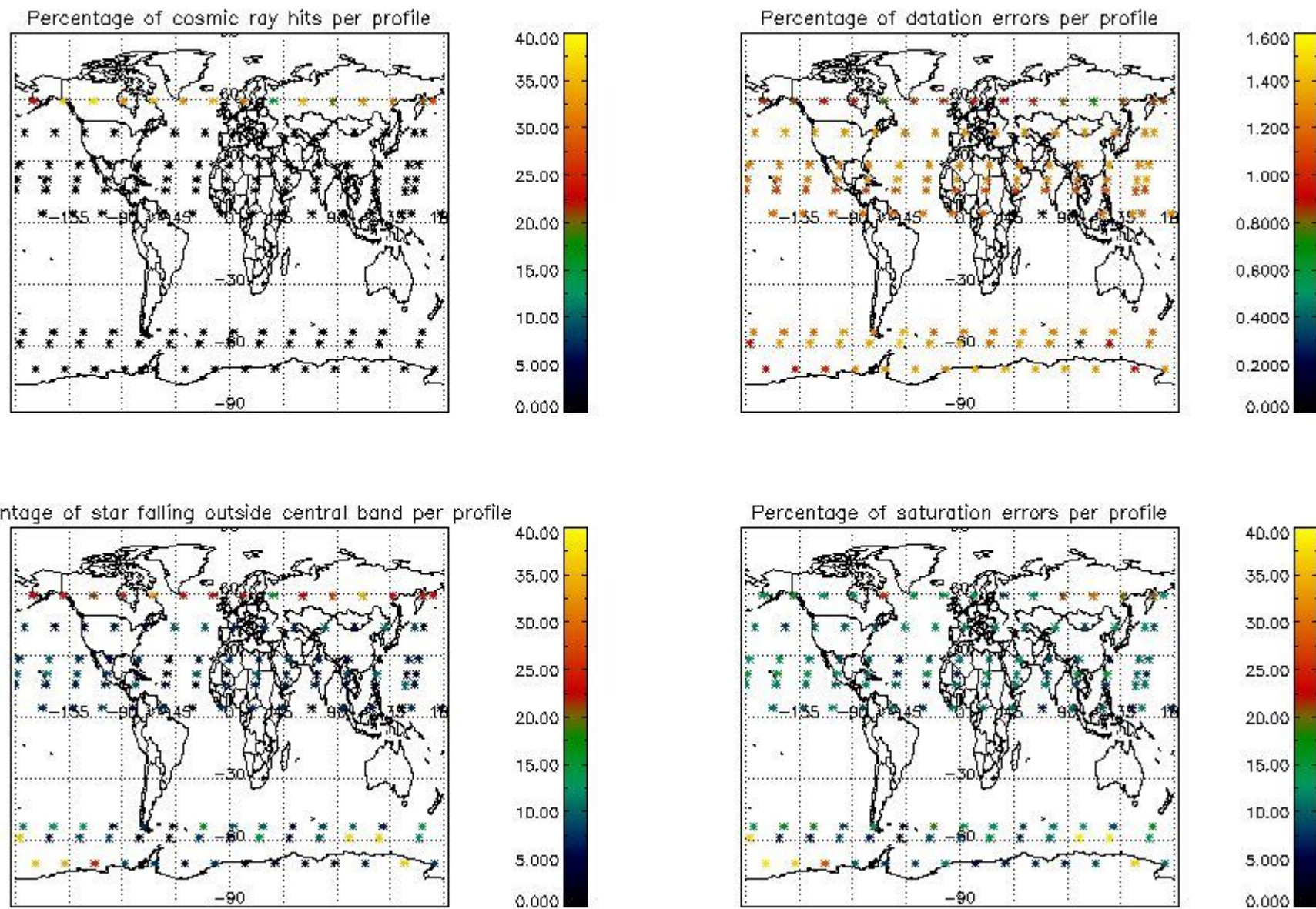
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

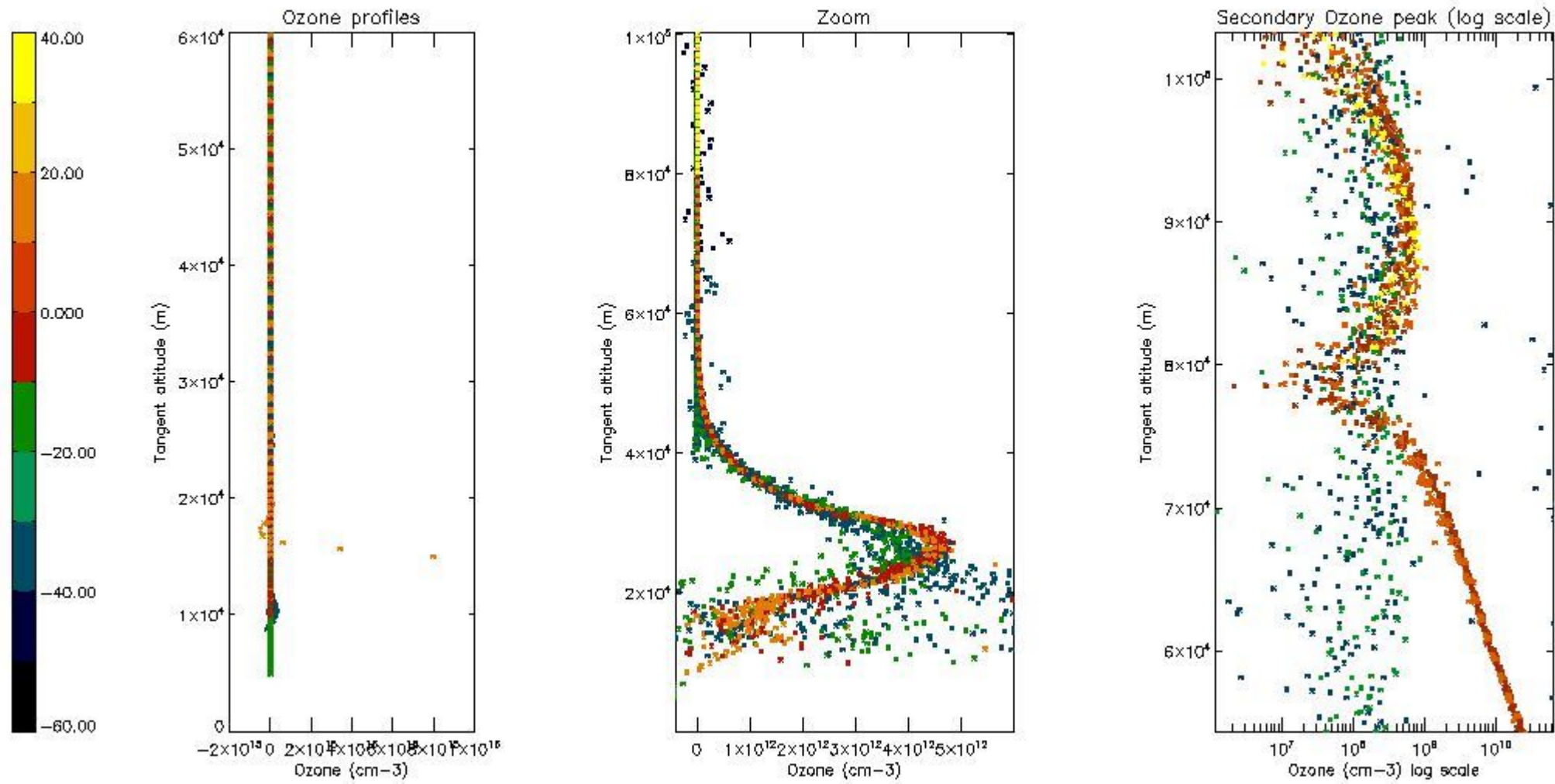
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	30
STD < 20	15

STD < 10	12
STD < 5	8

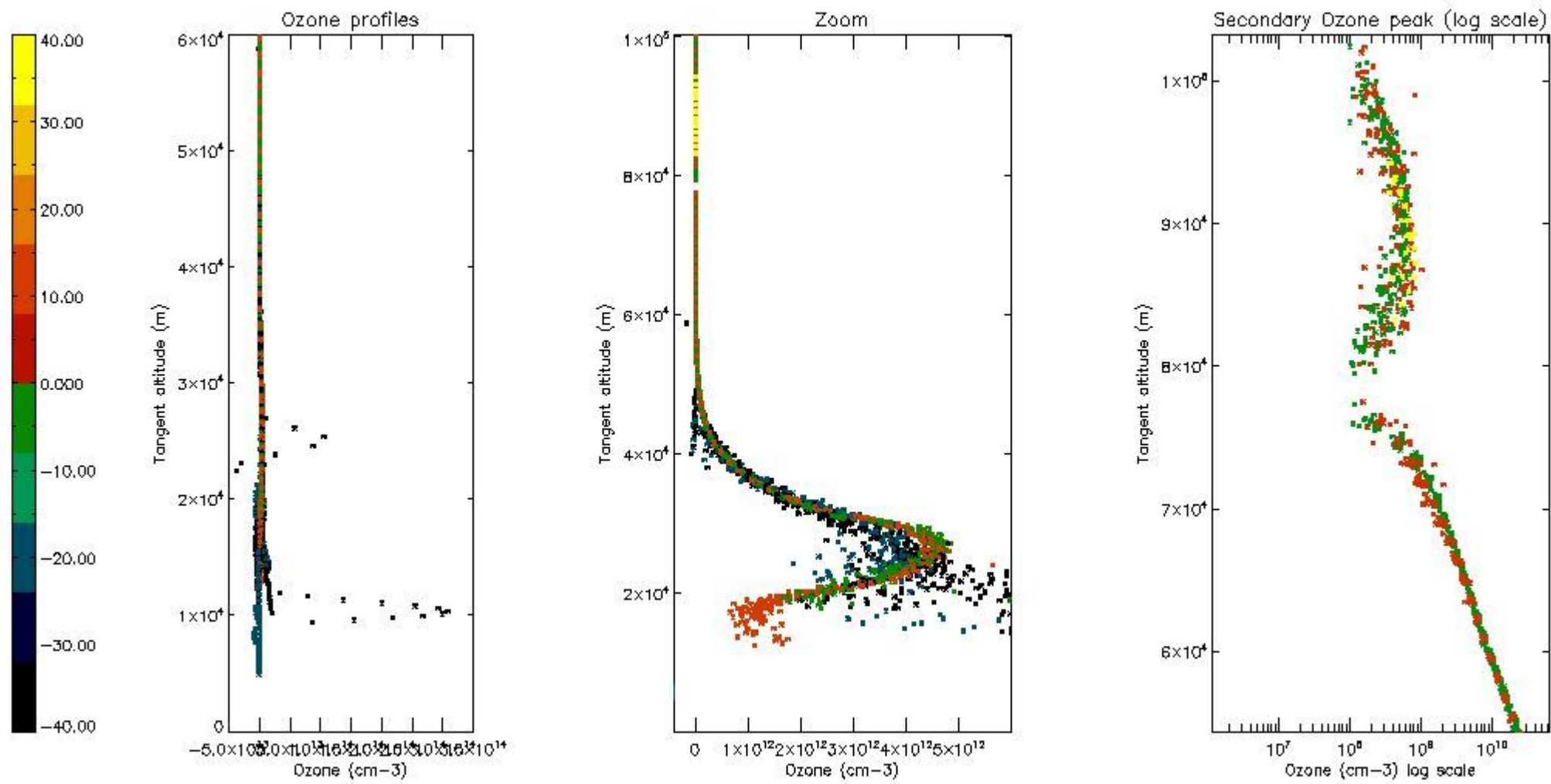
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



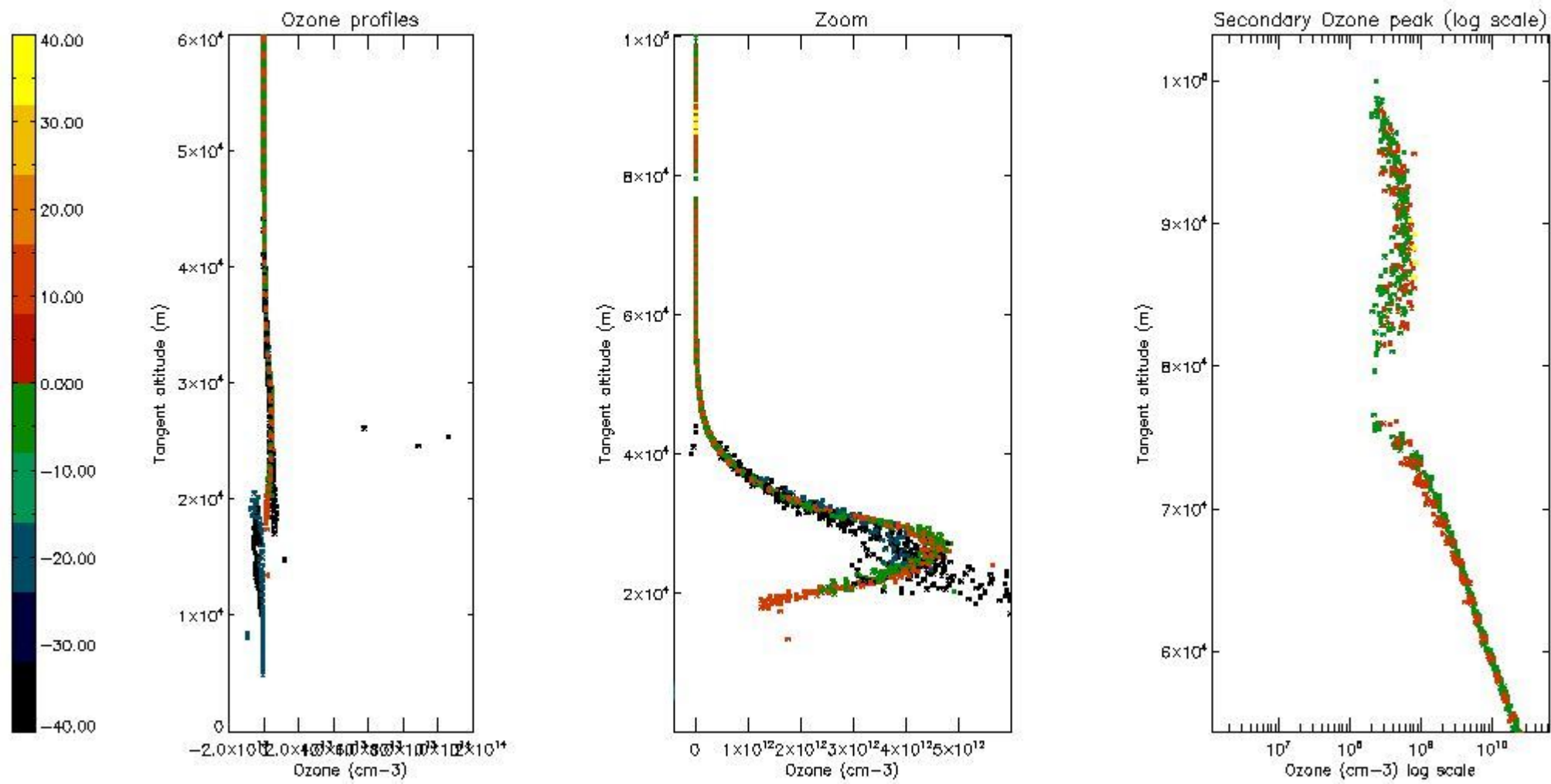
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



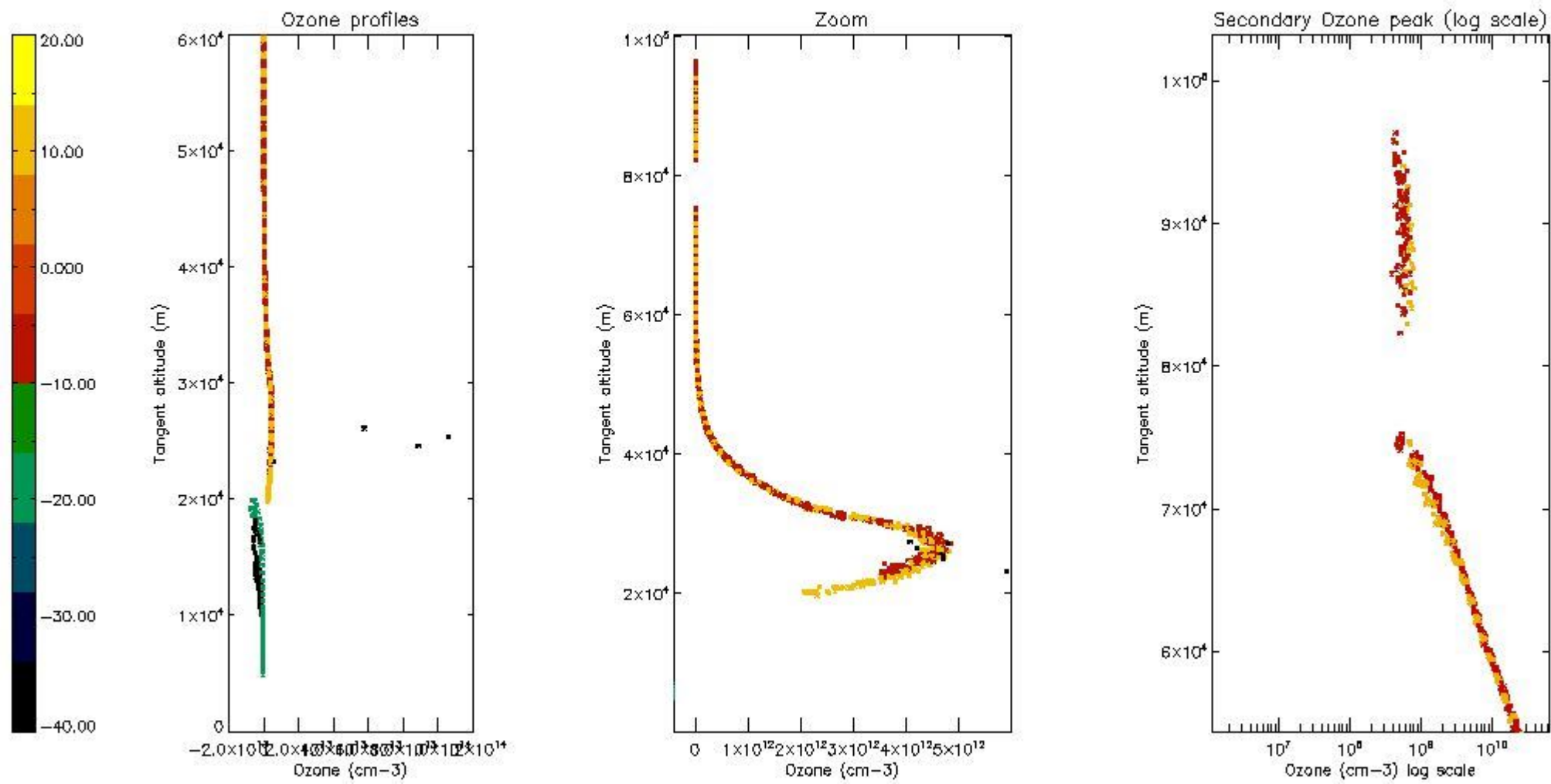
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



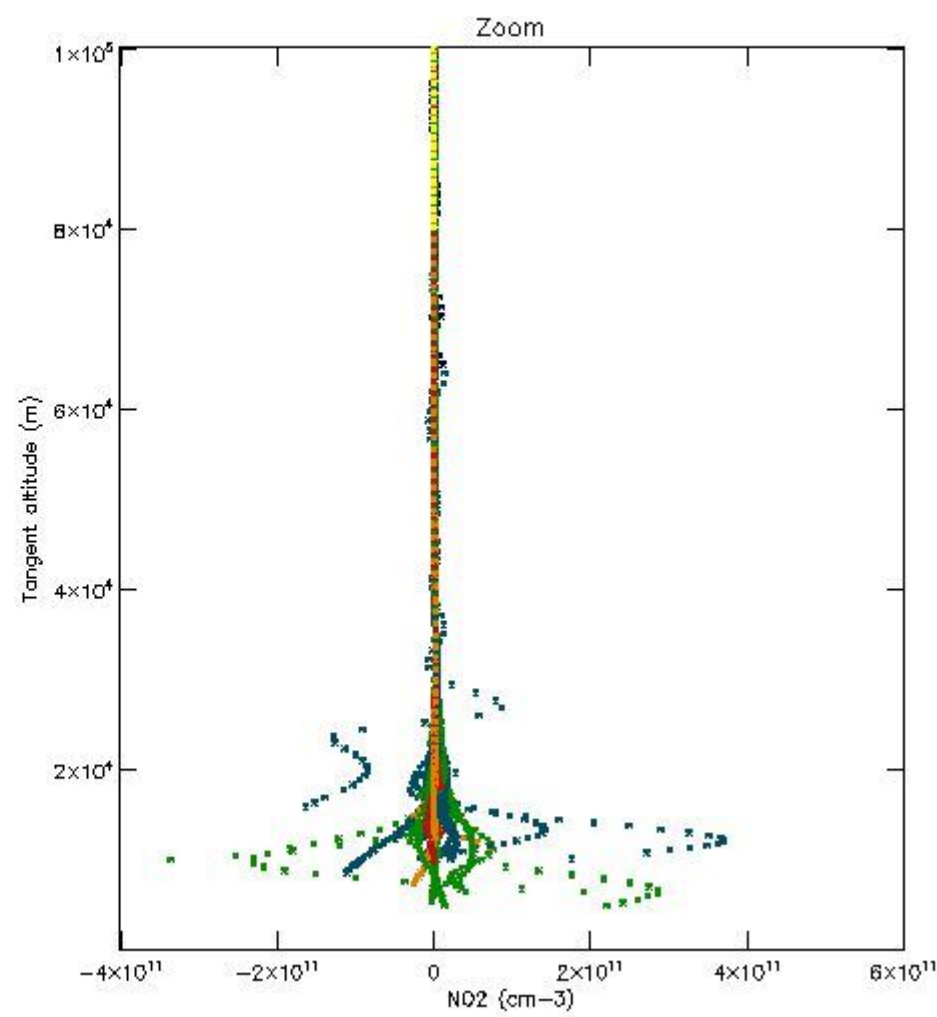
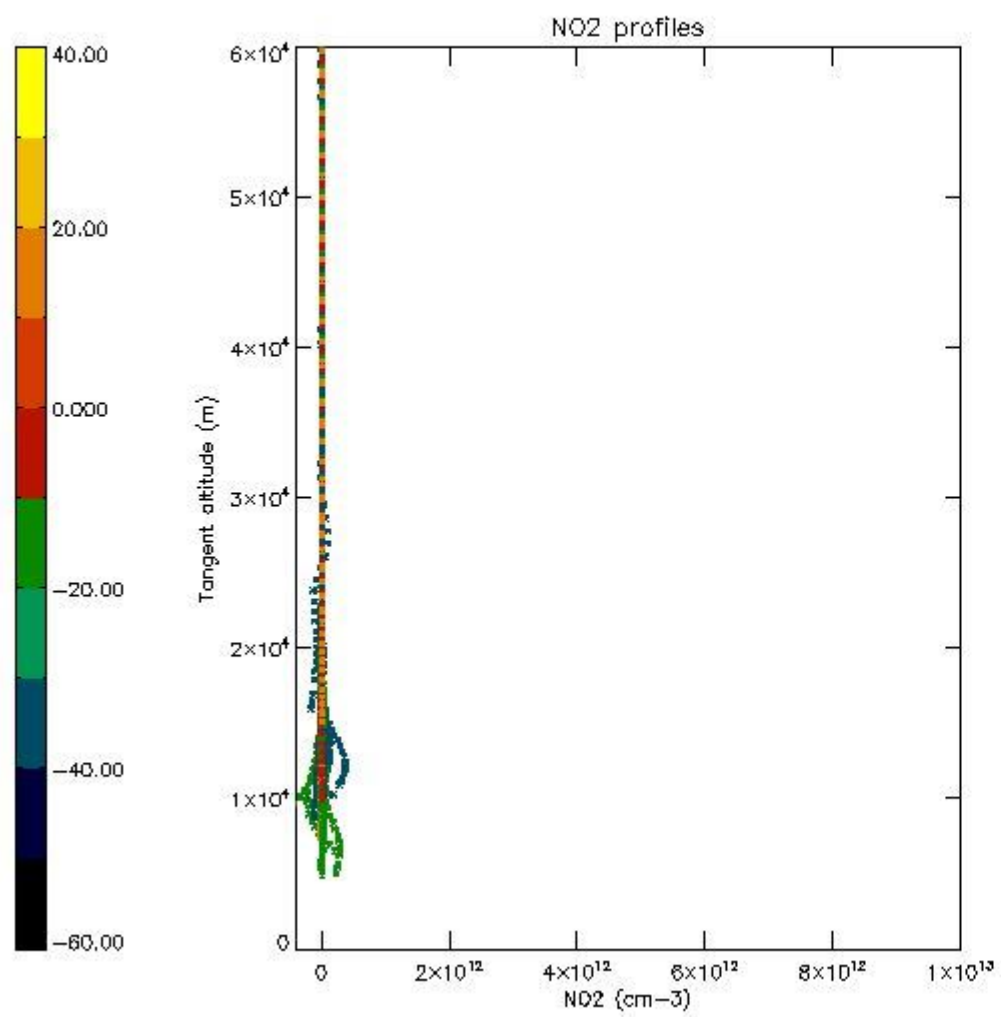
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



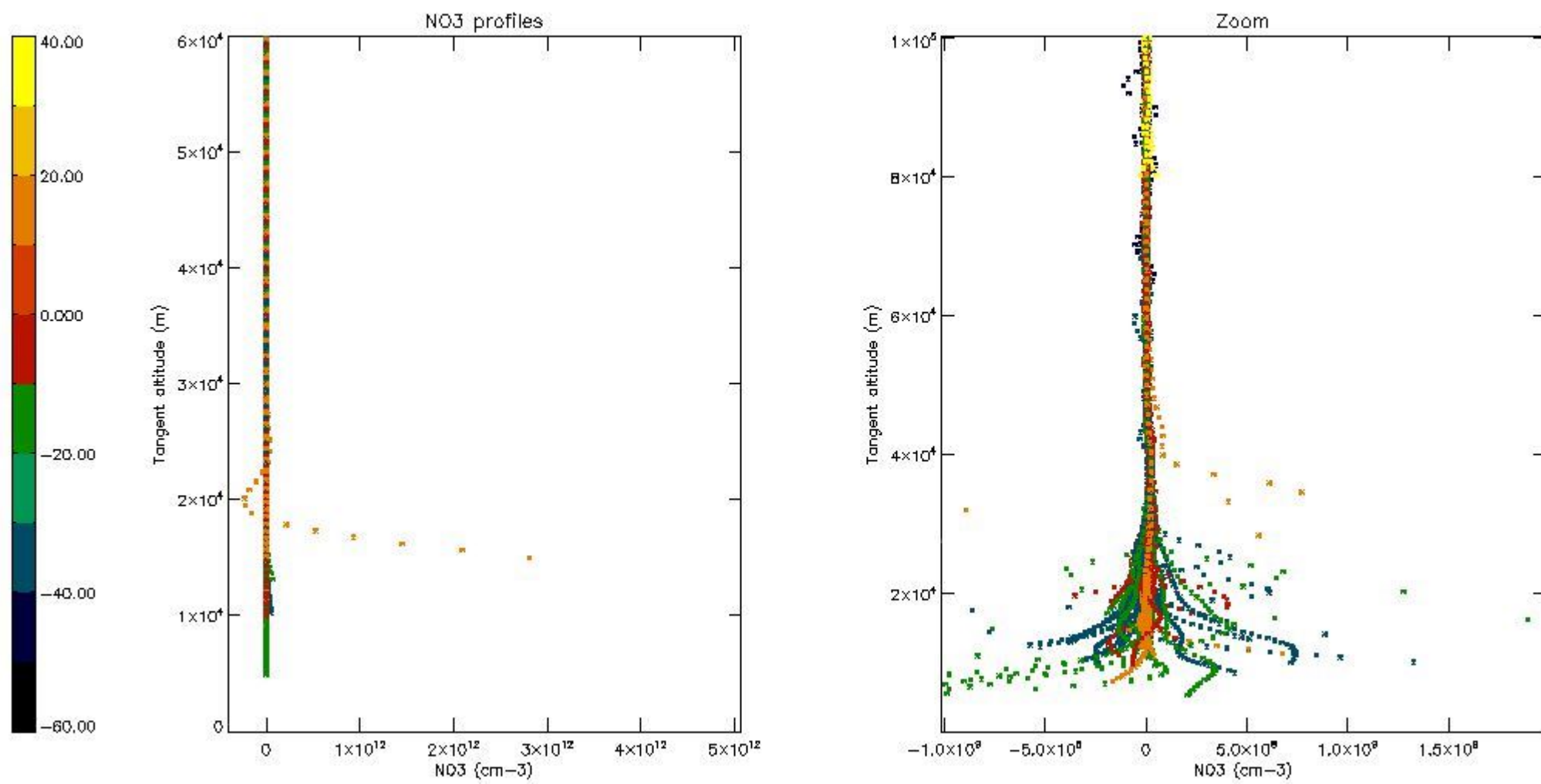
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



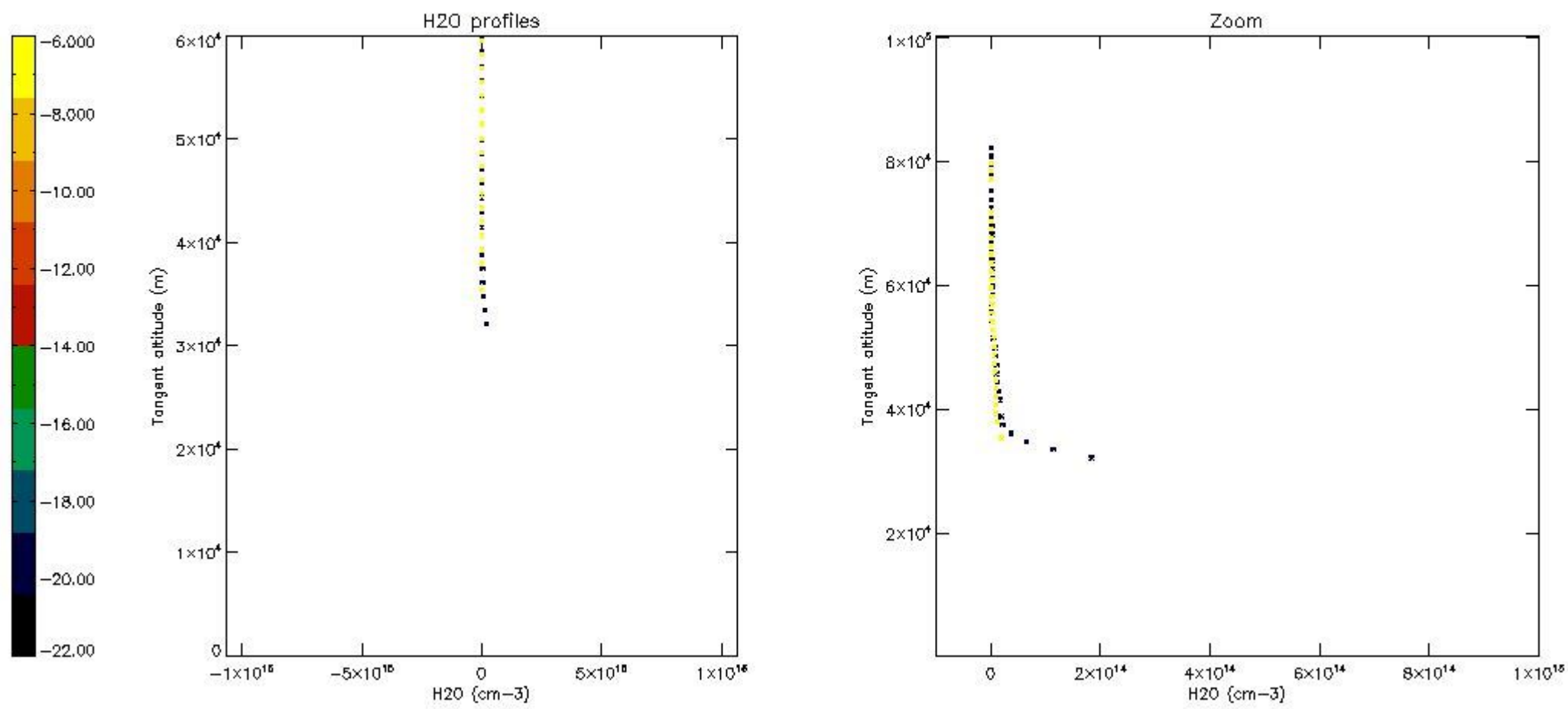
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	31-OCT-2009 00:07:51
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	31-OCT-2009 00:07:51
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	31-OCT-2009 00:07:51

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[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 13:32:26
Data source version	GOMOS/6.01
Start time of products	31-10-2009 (31OCT2009 00:00:00)
Stop time of products	01-11-2009 (01NOV2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	220
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

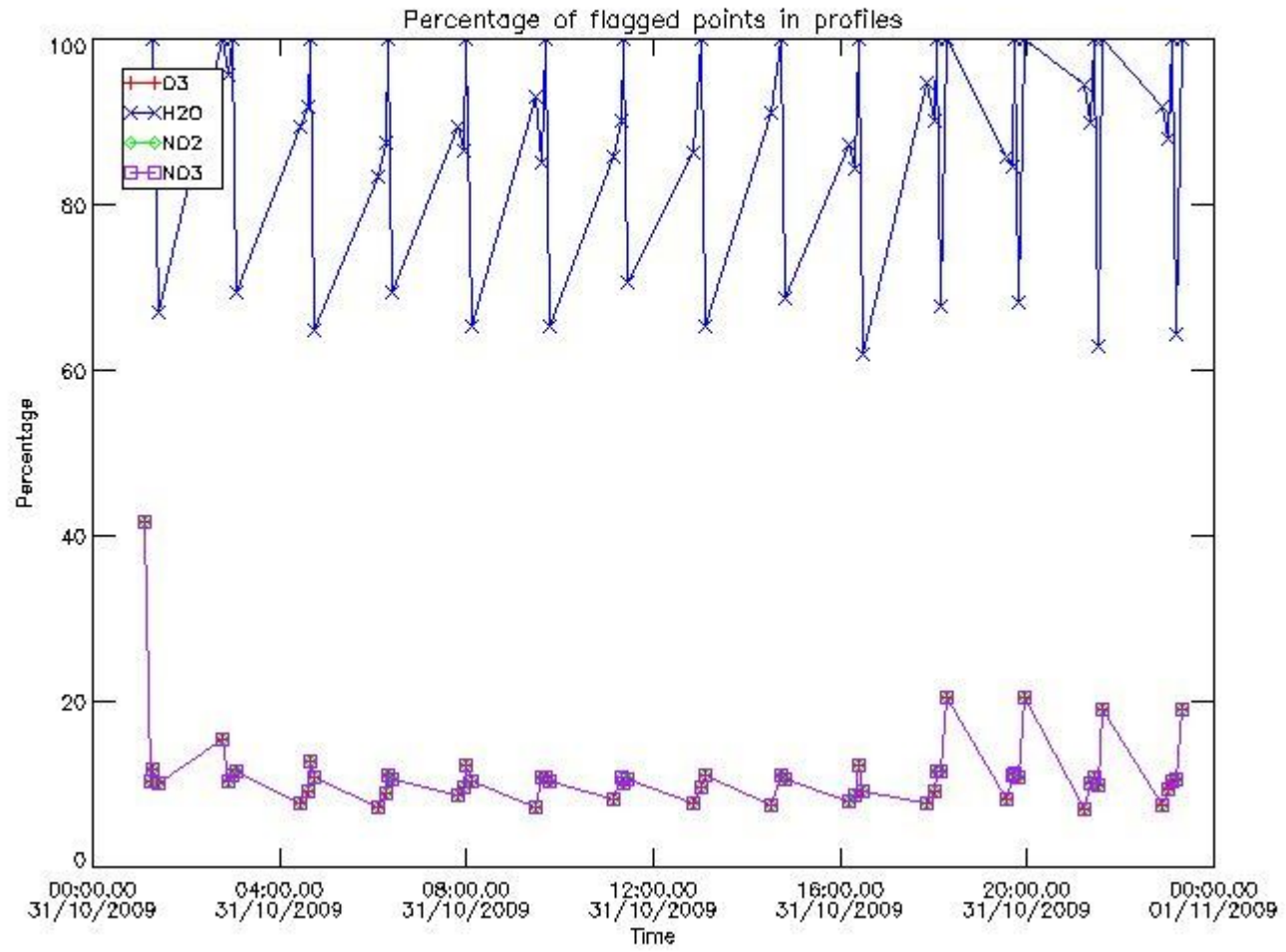
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20091031_000751_000000592083_00460_40093_7491.N1	31-OCT-2009 00:07:51	Bright	59.000	94	92Alp Cet	2.5260	3100.0	118	40093	No
2	GOM_NL__2PRFIN20091031_001212_000000402083_00460_40093_7492.N1	31-OCT-2009 00:12:12	Bright	39.500	105	6Bet Ari	2.6450	8900.0	79	40093	No
3	GOM_NL__2PRFIN20091031_001639_000000402083_00460_40093_7493.N1	31-OCT-2009 00:16:39	Bright	39.500	173	4Bet Tri	3.0040	8900.0	79	40093	No
4	GOM_NL__2PRFIN20091031_001841_000000392083_00460_40093_7494.N1	31-OCT-2009 00:18:41	Bright	38.500	73	57Gam1And	2.2600	13100.	77	40093	No
5	GOM_NL__2PRFIN20091031_002008_000000462083_00460_40093_7495.N1	31-OCT-2009 00:20:08	Bright	46.000	79	26Bet Per	2.3100	13100.	92	40093	No
6	GOM_NL__2PRFIN20091031_002318_000000392083_00460_40093_7496.N1	31-OCT-2009 00:23:18	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	40093	No
7	GOM_NL__2PRFIN20091031_003929_000000392083_00460_40093_7497.N1	31-OCT-2009 00:39:29	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	40093	No
8	GOM_NL__2PRFIN20091031_004106_000000562083_00460_40093_7498.N1	31-OCT-2009 00:41:06	Bright	56.000	82	48Bet UMa	2.3650	10600.	112	40093	No
9	GOM_NL__2PRFIN20091031_004445_000000392083_00460_40093_7499.N1	31-OCT-2009 00:44:45	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	40093	No
10	GOM_NL__2PRFIN20091031_005239_000000562083_00460_40093_7500.N1	31-OCT-2009 00:52:39	Bright	55.500	166	17Eps Leo	2.9800	6000.0	111	40093	No
11	GOM_NL__2PRFIN20091031_005625_000000562083_00460_40093_7501.N1	31-OCT-2009 00:56:25	Bright	56.000	22	32Alp Leo	1.3600	15200.	112	40093	No
12	GOM_NL__2PRFIN20091031_010539_000000582083_00460_40093_7502.N1	31-OCT-2009 01:05:39	Dark	58.000	48	30Alp Hya	1.9770	4100.0	116	40093	No
13	GOM_NL__2PRFIN20091031_011420_000000492083_00460_40093_7503.N1	31-OCT-2009 01:14:20	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	40093	No
14	GOM_NL__2PRFIN20091031_011757_000000442083_00461_40094_7500.N1	31-OCT-2009 01:17:57	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	40094	No
15	GOM_NL__2PRFIN20091031_012325_000000512083_00461_40094_7501.N1	31-OCT-2009 01:23:25	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	40094	No
16	GOM_NL__2PRFIN20091031_013348_000000432083_00461_40094_7502.N1	31-OCT-2009 01:33:48	Straylight	42.500	157	The1Eri	2.9060	9300.0	85	40094	No
17	GOM_NL__2PRFIN20091031_014827_000000602083_00461_40094_7503.N1	31-OCT-2009 01:48:27	Bright	59.500	94	92Alp Cet	2.5260	3100.0	119	40094	No
18	GOM_NL__2PRFIN20091031_015248_000000402083_00461_40094_7504.N1	31-OCT-2009 01:52:48	Bright	40.000	105	6Bet Ari	2.6450	8900.0	80	40094	No
19	GOM_NL__2PRFIN20091031_015715_000000382083_00461_40094_7505.N1	31-OCT-2009 01:57:15	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	40094	No
20	GOM_NL__2PRFIN20091031_015917_000000412083_00461_40094_7506.N1	31-OCT-2009 01:59:17	Bright	41.000	73	57Gam1And	2.2600	13100.	82	40094	No
21	GOM_NL__2PRFIN20091031_020043_000000442083_00461_40094_7507.N1	31-OCT-2009 02:00:43	Bright	44.000	79	26Bet Per	2.3100	13100.	88	40094	No
22	GOM_NL__2PRFIN20091031_020353_000000422083_00461_40094_7508.N1	31-OCT-2009 02:03:53	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	40094	No
23	GOM_NL__2PRFIN20091031_022005_000000402083_00461_40094_7509.N1	31-OCT-2009 02:20:05	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	40094	No
24	GOM_NL__2PRFIN20091031_022141_000000562083_00461_40094_7510.N1	31-OCT-2009 02:21:41	Bright	55.500	82	48Bet UMa	2.3650	10600.	111	40094	No
25	GOM_NL__2PRFIN20091031_022521_000000372083_00461_40094_7511.N1	31-OCT-2009 02:25:21	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	40094	No
26	GOM_NL__2PRFIN20091031_023315_000000552083_00461_40094_7512.N1	31-OCT-2009 02:33:15	Bright	54.500	166	17Eps Leo	2.9800	6000.0	109	40094	No
27	GOM_NL__2PRFIN20091031_023702_000000562083_00461_40094_7513.N1	31-OCT-2009 02:37:02	Bright	56.000	22	32Alp Leo	1.3600	15200.	112	40094	No
28	GOM_NL__2PRFIN20091031_024616_000000662083_00461_40094_7514.N1	31-OCT-2009 02:46:16	Dark	65.500	48	30Alp Hya	1.9770	4100.0	131	40094	No
29	GOM_NL__2PRFIN20091031_025457_000000592083_00461_40094_7515.N1	31-OCT-2009 02:54:57	Dark	58.500	65	Lam Vel	2.2040	4400.0	117	40094	No
30	GOM_NL__2PRFIN20091031_025833_000000462083_00462_40095_7522.N1	31-OCT-2009 02:58:33	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	40095	No
31	GOM_NL__2PRFIN20091031_030402_000000482083_00462_40095_7523.N1	31-OCT-2009 03:04:02	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	40095	No
32	GOM_NL__2PRFIN20091031_031425_000000412083_00462_40095_7524.N1	31-OCT-2009 03:14:25	Straylight	41.000	157	The1Eri	2.9060	9300.0	82	40095	No
33	GOM_NL__2PRFIN20091031_032902_000000692083_00462_40095_7525.N1	31-OCT-2009 03:29:02	Bright	69.000	94	92Alp Cet	2.5260	3100.0	138	40095	No
34	GOM_NL__2PRFIN20091031_033323_000000392083_00462_40095_7526.N1	31-OCT-2009 03:33:23	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	40095	No
35	GOM_NL__2PRFIN20091031_033751_000000402083_00462_40095_7527.N1	31-OCT-2009 03:37:51	Bright	39.500	173	4Bet Tri	3.0040	8900.0	79	40095	No
36	GOM_NL__2PRFIN20091031_033952_000000412083_00462_40095_7528.N1	31-OCT-2009 03:39:52	Bright	40.500	73	57Gam1And	2.2600	13100.	81	40095	No
37	GOM_NL__2PRFIN20091031_034118_000000452083_00462_40095_7529.N1	31-OCT-2009 03:41:18	Bright	45.000	79	26Bet Per	2.3100	13100.	90	40095	No
38	GOM_NL__2PRFIN20091031_034429_000000422083_00462_40095_7530.N1	31-OCT-2009 03:44:29	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	40095	No
39	GOM_NL__2PRFIN20091031_040041_000000402083_00462_40095_7531.N1	31-OCT-2009 04:00:41	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	40095	No
40	GOM_NL__2PRFIN20091031_040217_000000402083_00462_40095_7532.N1	31-OCT-2009 04:02:17	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	40095	No
41	GOM_NL__2PRFIN20091031_040557_000000372083_00462_40095_7533.N1	31-OCT-2009 04:05:57	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	40095	No
42	GOM_NL__2PRFIN20091031_041352_000000552083_00462_40095_7534.N1	31-OCT-2009 04:13:52	Bright	55.000	166	17Eps Leo	2.9800	6000.0	110	40095	No

102	GOM_NL__2PRFIN20091031_105617_000000792083_00466_40099_7601.N1	31-OCT-2009 10:56:17	Bright	79.000	166	17Eps Leo	2.9800	6000.0	158	40099	No
103	GOM_NL__2PRFIN20091031_110004_000000572083_00466_40099_7602.N1	31-OCT-2009 11:00:04	Bright	56.500	22	32Alp Leo	1.3600	15200.	113	40099	No
104	GOM_NL__2PRFIN20091031_110923_000000752083_00466_40099_7603.N1	31-OCT-2009 11:09:23	Dark	74.500	48	30Alp Hya	1.9770	4100.0	149	40099	No
105	GOM_NL__2PRFIN20091031_111801_000000472083_00466_40099_7604.N1	31-OCT-2009 11:18:01	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	40099	No
106	GOM_NL__2PRFIN20091031_112138_000000502083_00467_40100_7608.N1	31-OCT-2009 11:21:38	Dark	50.000	34	Gam2Vel	1.7930	23000.	100	40100	No
107	GOM_NL__2PRFIN20091031_112706_000000482083_00467_40100_7609.N1	31-OCT-2009 11:27:06	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	40100	No
108	GOM_NL__2PRFIN20091031_115200_000000592083_00467_40100_7610.N1	31-OCT-2009 11:52:00	Twi_and_stray	58.500	94	92Alp Cet	2.5260	3100.0	117	40100	No
109	GOM_NL__2PRFIN20091031_115622_000000402083_00467_40100_7611.N1	31-OCT-2009 11:56:22	Bright	40.000	105	6Bet Ari	2.6450	8900.0	80	40100	No
110	GOM_NL__2PRFIN20091031_120049_000000402083_00467_40100_7612.N1	31-OCT-2009 12:00:49	Bright	39.500	173	4Bet Tri	3.0040	8900.0	79	40100	No
111	GOM_NL__2PRFIN20091031_120250_000000412083_00467_40100_7613.N1	31-OCT-2009 12:02:50	Bright	41.000	73	57Gam1And	2.2600	13100.	82	40100	No
112	GOM_NL__2PRFIN20091031_120415_000000432083_00467_40100_7614.N1	31-OCT-2009 12:04:15	Bright	43.000	79	26Bet Per	2.3100	13100.	86	40100	No
113	GOM_NL__2PRFIN20091031_120726_000000412083_00467_40100_7615.N1	31-OCT-2009 12:07:26	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	40100	No
114	GOM_NL__2PRFIN20091031_122340_000000362083_00467_40100_7616.N1	31-OCT-2009 12:23:40	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	40100	No
115	GOM_NL__2PRFIN20091031_122516_000000352083_00467_40100_7617.N1	31-OCT-2009 12:25:16	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	40100	No
116	GOM_NL__2PRFIN20091031_122857_000000392083_00467_40100_7618.N1	31-OCT-2009 12:28:57	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	40100	No
117	GOM_NL__2PRFIN20091031_123654_000000762083_00467_40100_7619.N1	31-OCT-2009 12:36:54	Bright	76.000	166	17Eps Leo	2.9800	6000.0	152	40100	No
118	GOM_NL__2PRFIN20091031_124041_000000542083_00467_40100_7620.N1	31-OCT-2009 12:40:41	Bright	53.500	22	32Alp Leo	1.3600	15200.	107	40100	No
119	GOM_NL__2PRFIN20091031_125000_000000662083_00467_40100_7621.N1	31-OCT-2009 12:50:00	Dark	66.000	48	30Alp Hya	1.9770	4100.0	132	40100	No
120	GOM_NL__2PRFIN20091031_130215_000000532083_00468_40101_7619.N1	31-OCT-2009 13:02:15	Dark	53.000	34	Gam2Vel	1.7930	23000.	106	40101	No
121	GOM_NL__2PRFIN20091031_130742_000000512083_00468_40101_7620.N1	31-OCT-2009 13:07:42	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	40101	No
122	GOM_NL__2PRFIN20091031_133236_000000592083_00468_40101_7621.N1	31-OCT-2009 13:32:36	Twi_and_stray	58.500	94	92Alp Cet	2.5260	3100.0	117	40101	No
123	GOM_NL__2PRFIN20091031_133658_000000402083_00468_40101_7622.N1	31-OCT-2009 13:36:58	Bright	40.000	105	6Bet Ari	2.6450	8900.0	80	40101	No
124	GOM_NL__2PRFIN20091031_134124_000000382083_00468_40101_7623.N1	31-OCT-2009 13:41:24	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	40101	No
125	GOM_NL__2PRFIN20091031_134326_000000382083_00468_40101_7624.N1	31-OCT-2009 13:43:26	Bright	37.500	73	57Gam1And	2.2600	13100.	75	40101	No
126	GOM_NL__2PRFIN20091031_134450_000000452083_00468_40101_7625.N1	31-OCT-2009 13:44:50	Bright	45.000	79	26Bet Per	2.3100	13100.	90	40101	No
127	GOM_NL__2PRFIN20091031_134801_000000422083_00468_40101_7626.N1	31-OCT-2009 13:48:01	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	40101	No
128	GOM_NL__2PRFIN20091031_140416_000000402083_00468_40101_7627.N1	31-OCT-2009 14:04:16	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	40101	No
129	GOM_NL__2PRFIN20091031_140552_000000372083_00468_40101_7628.N1	31-OCT-2009 14:05:52	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	40101	No
130	GOM_NL__2PRFIN20091031_140933_000000392083_00468_40101_7629.N1	31-OCT-2009 14:09:33	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	40101	No
131	GOM_NL__2PRFIN20091031_141730_000000522083_00468_40101_7630.N1	31-OCT-2009 14:17:30	Bright	52.000	166	17Eps Leo	2.9800	6000.0	104	40101	No
132	GOM_NL__2PRFIN20091031_142117_000000572083_00468_40101_7631.N1	31-OCT-2009 14:21:17	Bright	57.000	22	32Alp Leo	1.3600	15200.	114	40101	No
133	GOM_NL__2PRFIN20091031_143037_000000682083_00468_40101_7632.N1	31-OCT-2009 14:30:37	Dark	68.000	48	30Alp Hya	1.9770	4100.0	136	40101	No
134	GOM_NL__2PRFIN20091031_144252_000000462083_00469_40102_7652.N1	31-OCT-2009 14:42:52	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40102	No
135	GOM_NL__2PRFIN20091031_144819_000000482083_00469_40102_7653.N1	31-OCT-2009 14:48:19	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	40102	No
136	GOM_NL__2PRFIN20091031_151311_000000672083_00469_40102_7654.N1	31-OCT-2009 15:13:11	Twi_and_stray	66.500	94	92Alp Cet	2.5260	3100.0	133	40102	No
137	GOM_NL__2PRFIN20091031_151733_000000382083_00469_40102_7655.N1	31-OCT-2009 15:17:33	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	40102	No
138	GOM_NL__2PRFIN20091031_152200_000000392083_00469_40102_7656.N1	31-OCT-2009 15:22:00	Bright	39.000	173	4Bet Tri	3.0040	8900.0	78	40102	No
139	GOM_NL__2PRFIN20091031_152402_000000392083_00469_40102_7657.N1	31-OCT-2009 15:24:02	Bright	38.500	73	57Gam1And	2.2600	13100.	77	40102	No
140	GOM_NL__2PRFIN20091031_152525_000000472083_00469_40102_7658.N1	31-OCT-2009 15:25:25	Bright	46.500	79	26Bet Per	2.3100	13100.	93	40102	No
141	GOM_NL__2PRFIN20091031_152836_000000412083_00469_40102_7659.N1	31-OCT-2009 15:28:36	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	40102	No
142	GOM_NL__2PRFIN20091031_154452_000000382083_00469_40102_7660.N1	31-OCT-2009 15:44:52	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	40102	No
143	GOM_NL__2PRFIN20091031_154628_000000392083_00469_40102_7661.N1	31-OCT-2009 15:46:28	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	40102	No
144	GOM_NL__2PRFIN20091031_155009_000000482083_00469_40102_7662.N1	31-OCT-2009 15:50:09	Bright	48.000	174	52Psi UMa	3.0040	4400.0	96	40102	No
145	GOM_NL__2PRFIN20091031_155806_000000562083_00469_40102_7663.N1	31-OCT-2009 15:58:06	Bright	55.500	166	17Eps Leo	2.9800	6000.0	111	40102	No
146	GOM_NL__2PRFIN20091031_160154_000000582083_00469_40102_7664.N1	31-OCT-2009 16:01:54	Bright	57.500	22	32Alp Leo	1.3600	15200.	115	40102	No
147	GOM_NL__2PRFIN20091031_161114_000000722083_00469_40102_7665.N1	31-OCT-2009 16:11:14	Dark	71.500	48	30Alp Hya	1.9770	4100.0	143	40102	No
148	GOM_NL__2PRFIN20091031_161951_000000582083_00469_40102_7666.N1	31-OCT-2009 16:19:51	Dark	58.000	65	Lam Vel	2.2040	4400.0	116	40102	No
149	GOM_NL__2PRFIN20091031_162328_000000462083_00470_40103_7663.N1	31-OCT-2009 16:23:28	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40103	No
150	GOM_NL__2PRFIN20091031_162856_000000552083_00470_40103_7664.N1	31-OCT-2009 16:28:56	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	40103	No
151	GOM_NL__2PRFIN20091031_165347_000000572083_00470_40103_7665.N1	31-OCT-2009 16:53:47	Twi_and_stray	56.500	94	92Alp Cet	2.5260	3100.0	113	40103	No
152	GOM_NL__2PRFIN20091031_165809_000000392083_00470_40103_7666.N1	31-OCT-2009 16:58:09	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	40103	No
153	GOM_NL__2PRFIN20091031_170235_000000392083_00470_40103_7667.N1	31-OCT-2009 17:02:35	Bright	39.000	173	4Bet Tri	3.0040	8900.0	78	40103	No
154	GOM_NL__2PRFIN20091031_170437_000000402083_00470_40103_7668.N1	31-OCT-2009 17:04:37	Bright	40.000	73	57Gam1And	2.2600	13100.	80	40103	No
155	GOM_NL__2PRFIN20091031_170601_000000462083_00470_40103_7669.N1	31-OCT-2009 17:06:01	Bright	45.500	79	26Bet Per	2.3100	13100.	91	40103	No
156	GOM_NL__2PRFIN20091031_170912_000000432083_00470_40103_7670.N1	31-OCT-2009 17:09:12	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	40103	No
157	GOM_NL__2PRFIN20091031_172528_000000422083_00470_40103_7671.N1	31-OCT-2009 17:25:28	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	40103	No
158	GOM_NL__2PRFIN20091031_172704_000000382083_00470_40103_7672.N1	31-OCT-2009 17:27:04	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	40103	No
159	GOM_NL__2PRFIN20091031_173045_000000562083_00470_40103_7673.N1	31-OCT-2009 17:30:45	Bright	56.000	174	52Psi UMa	3.0040	4400.0	112	40103	No
160	GOM_NL__2PRFIN20091031_173843_000000692083_00470_40103_7674.N1	31-OCT-2009 17:38:43	Bright	69.000	166	17Eps Leo	2.9800	6000.0	138	40103	No

3. Quality information per product

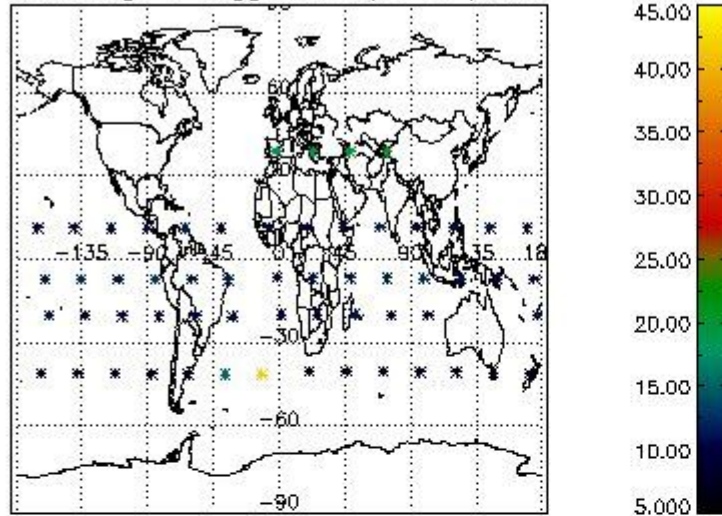
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

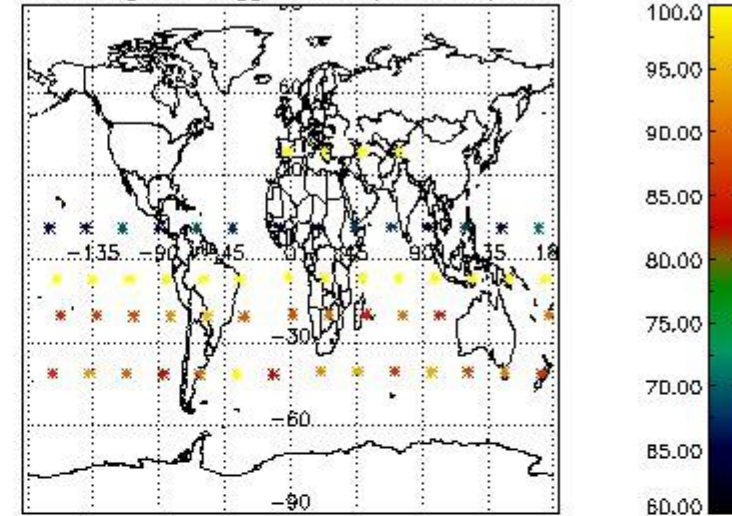


3.2 Plot quality information per product (world map)

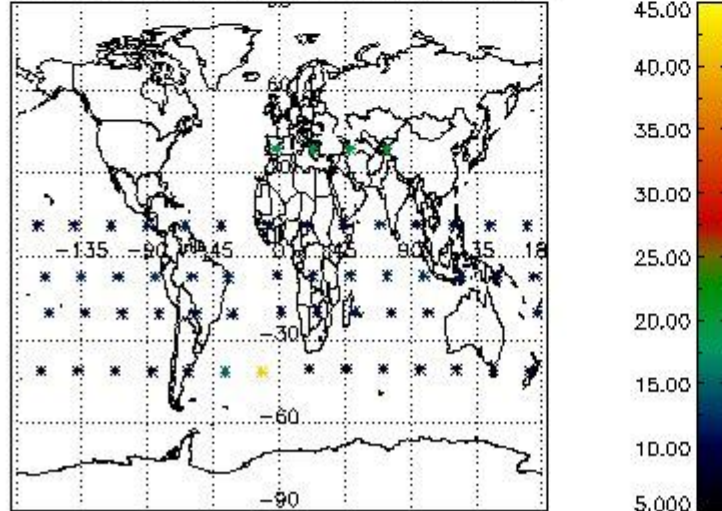
Percentage of flagged data per O3 profile



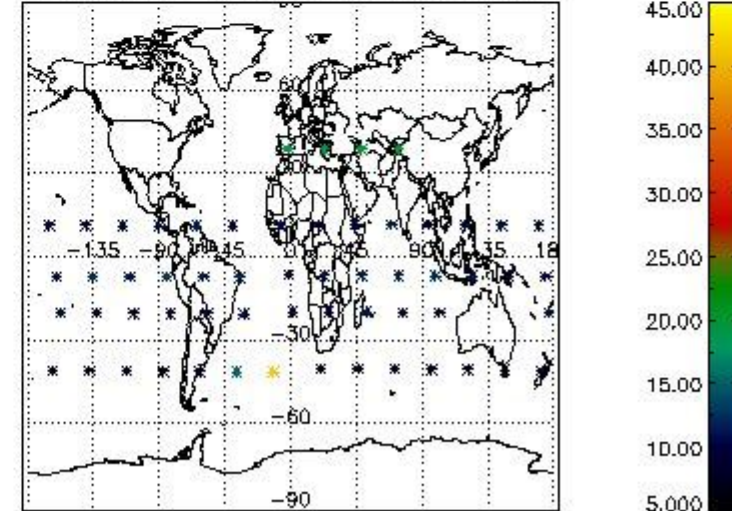
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

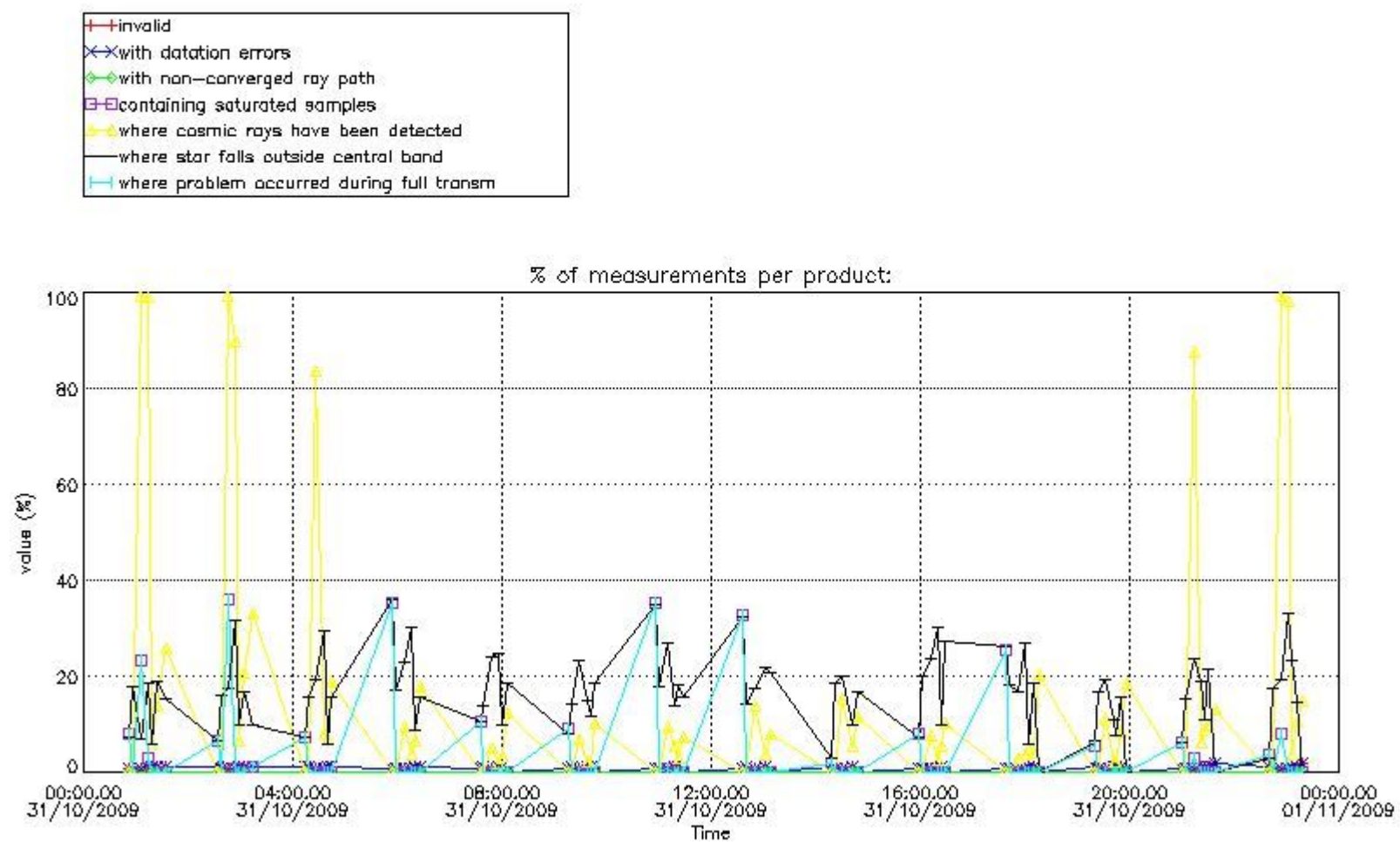


4. Level 1 quality information per product

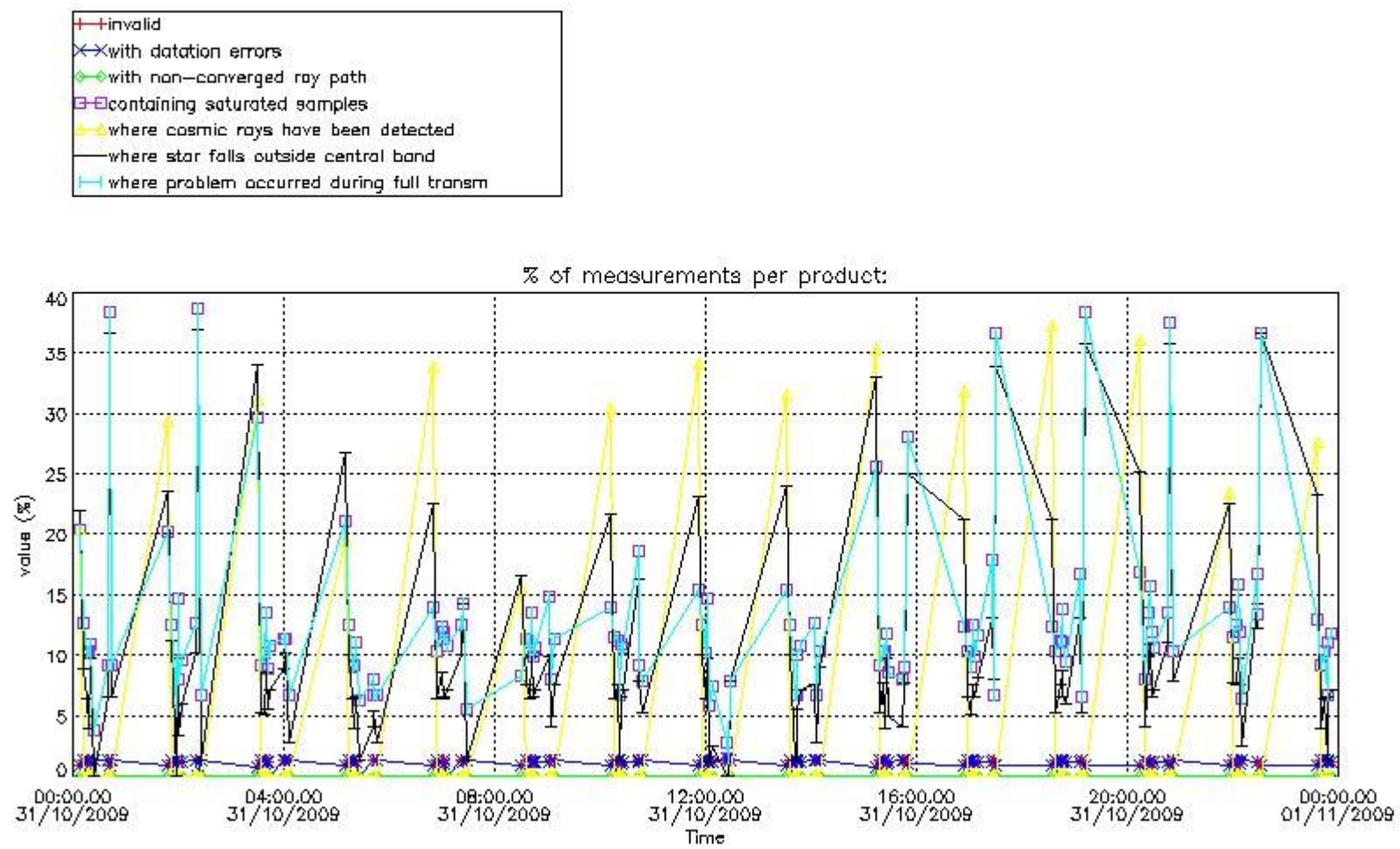
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



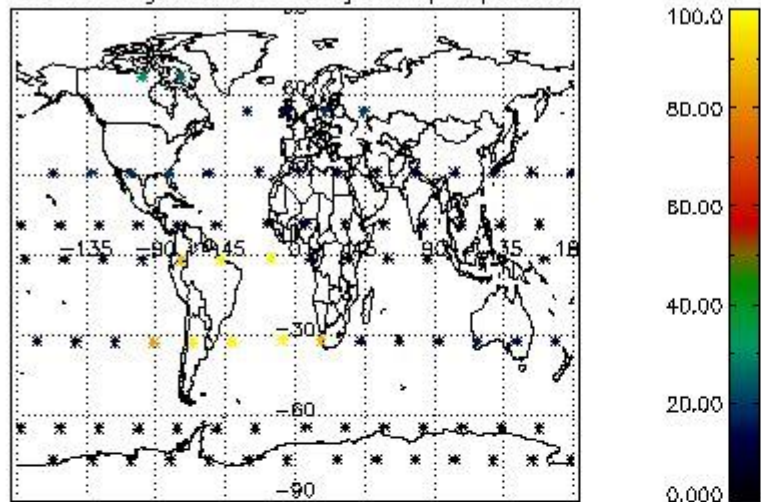
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



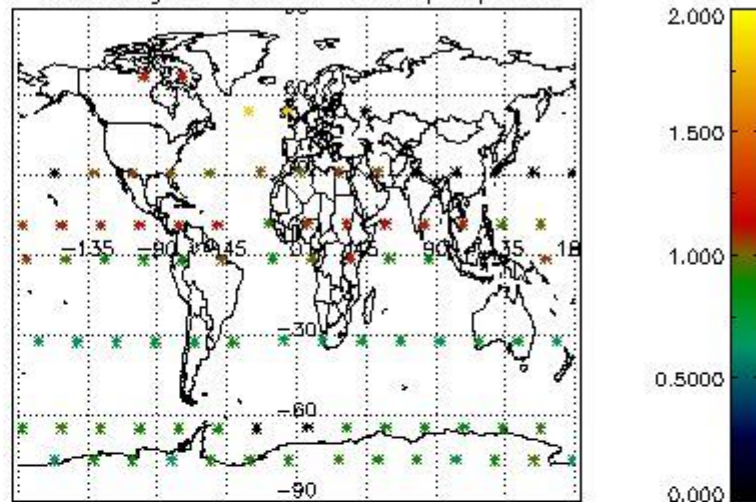
4.2 Plot quality information per product coming from level 1b processing (world map)

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

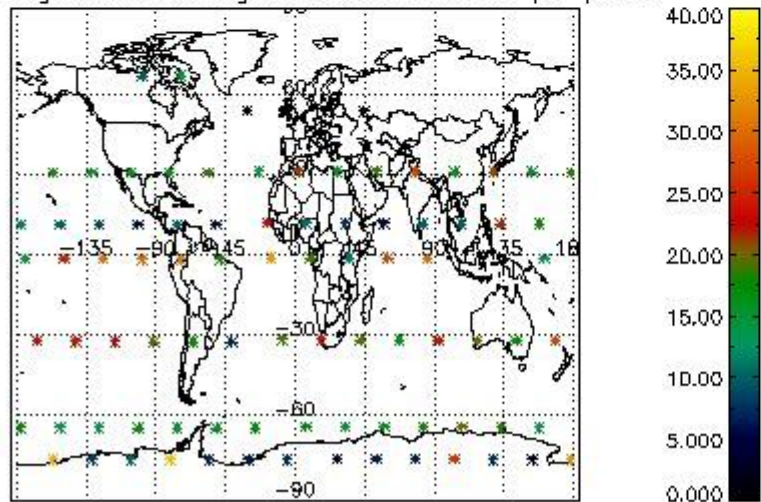
Percentage of cosmic ray hits per profile



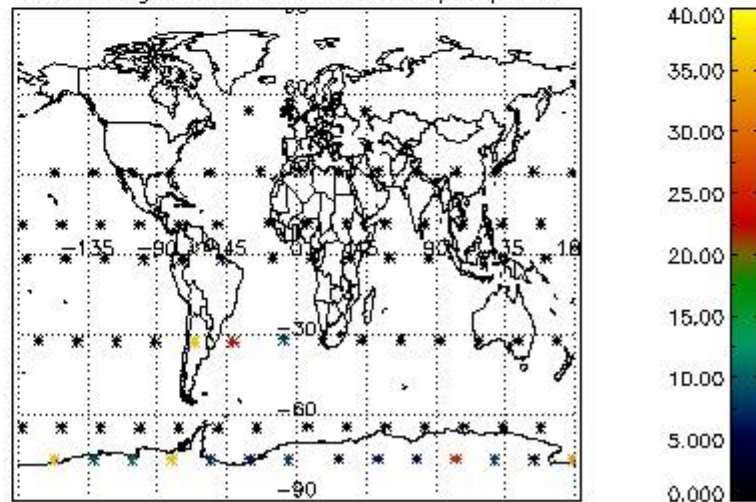
Percentage of datation errors per profile



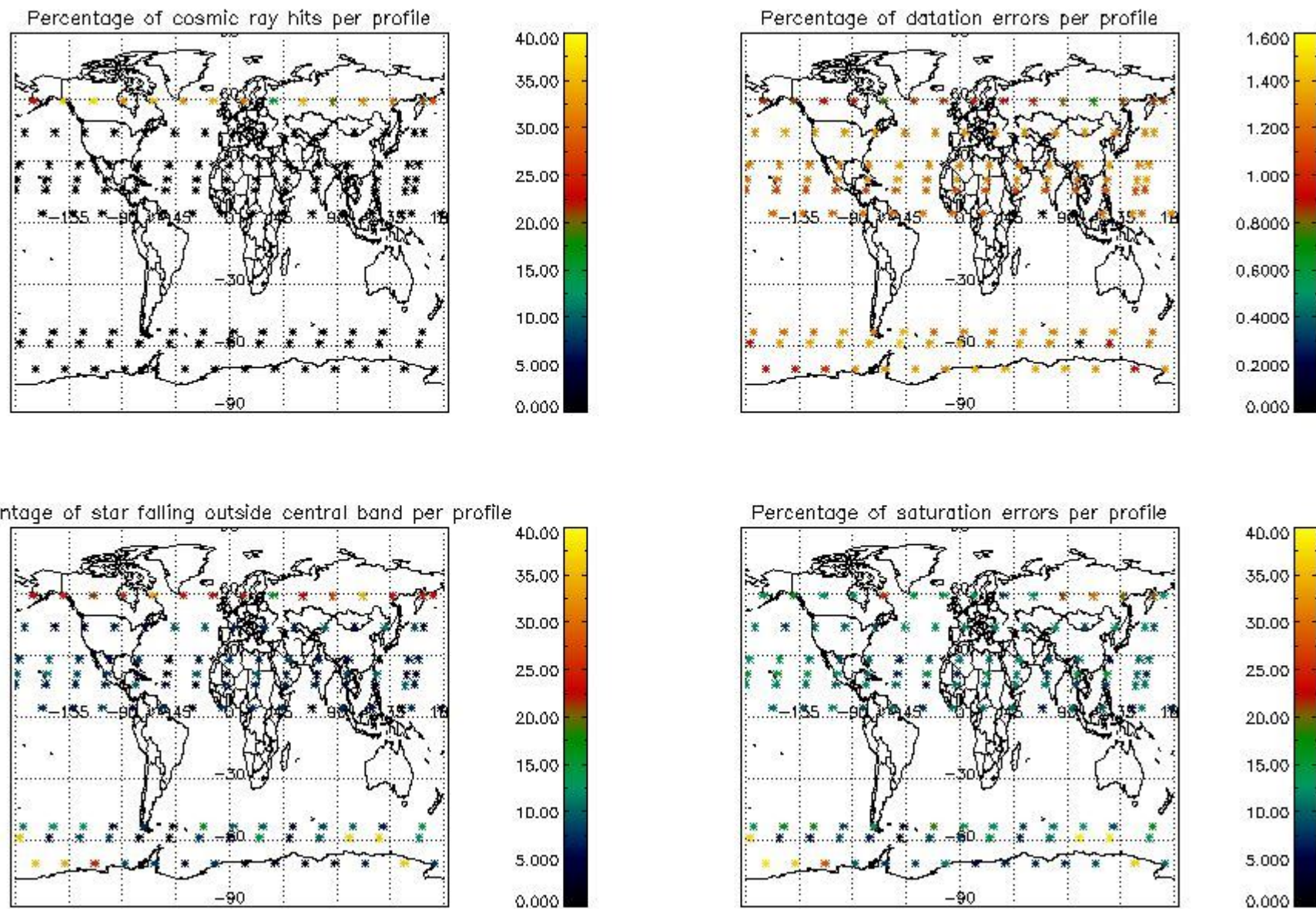
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

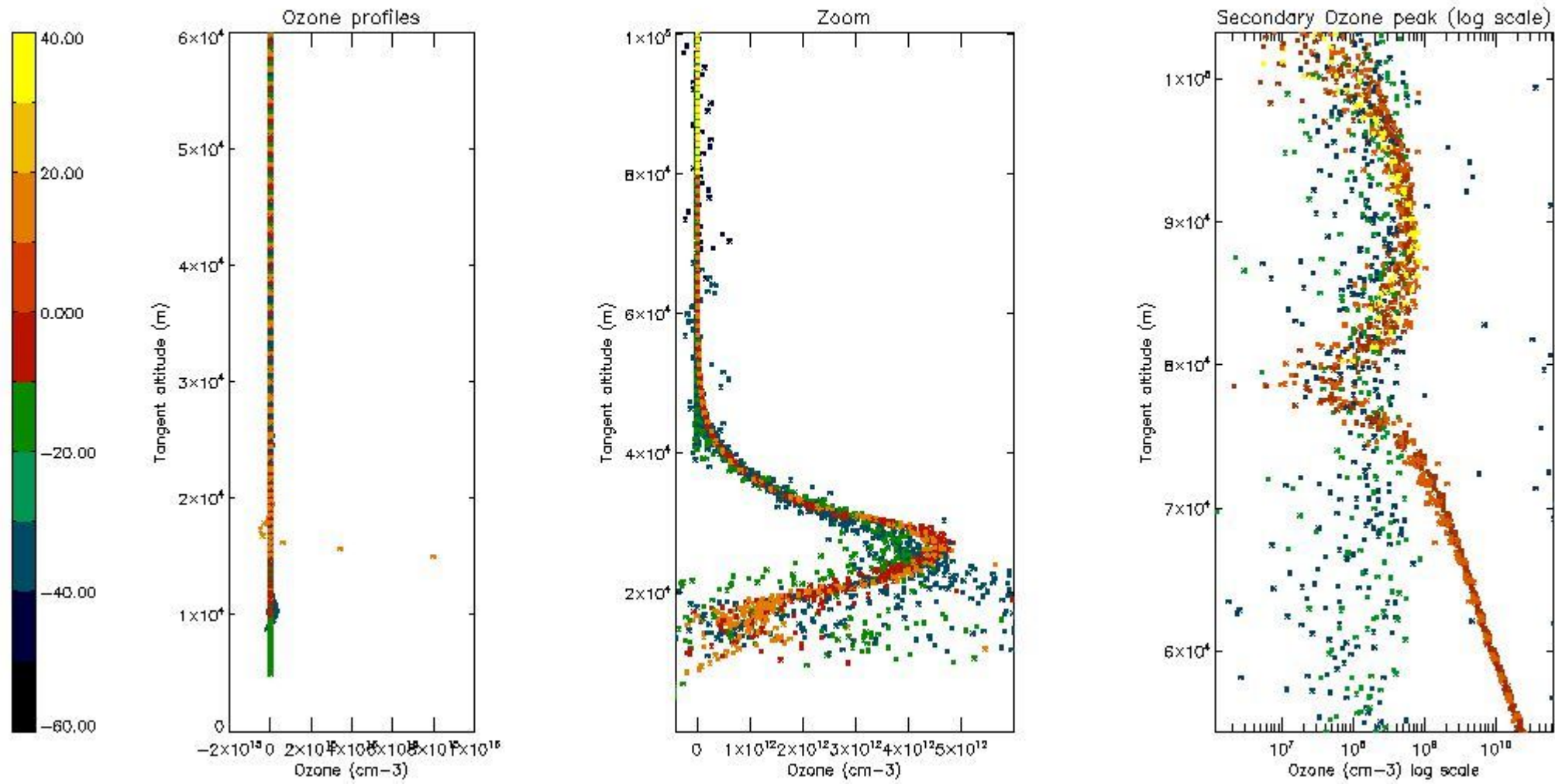
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	30
STD < 20	15

STD < 10	12
STD < 5	8

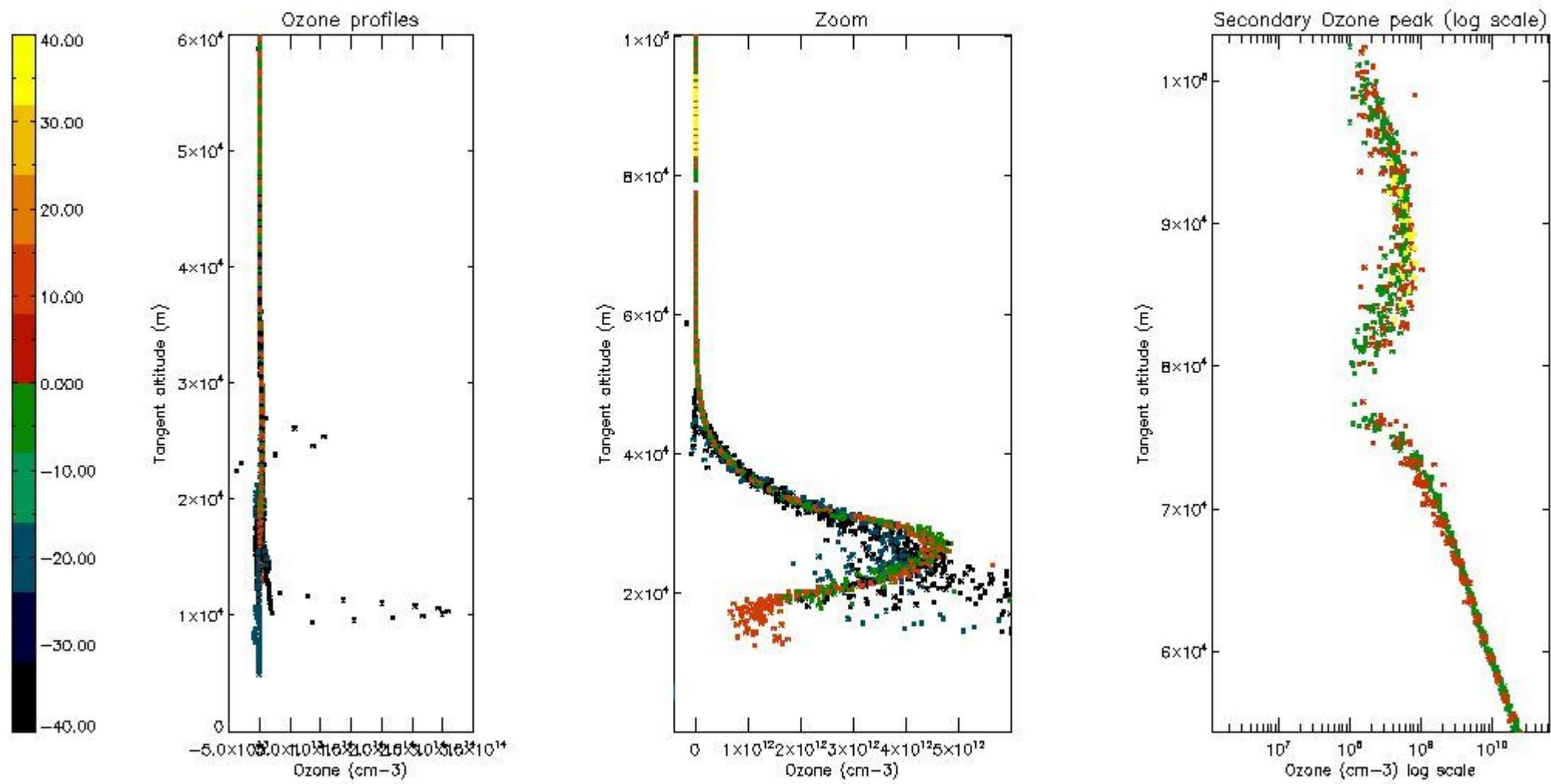
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



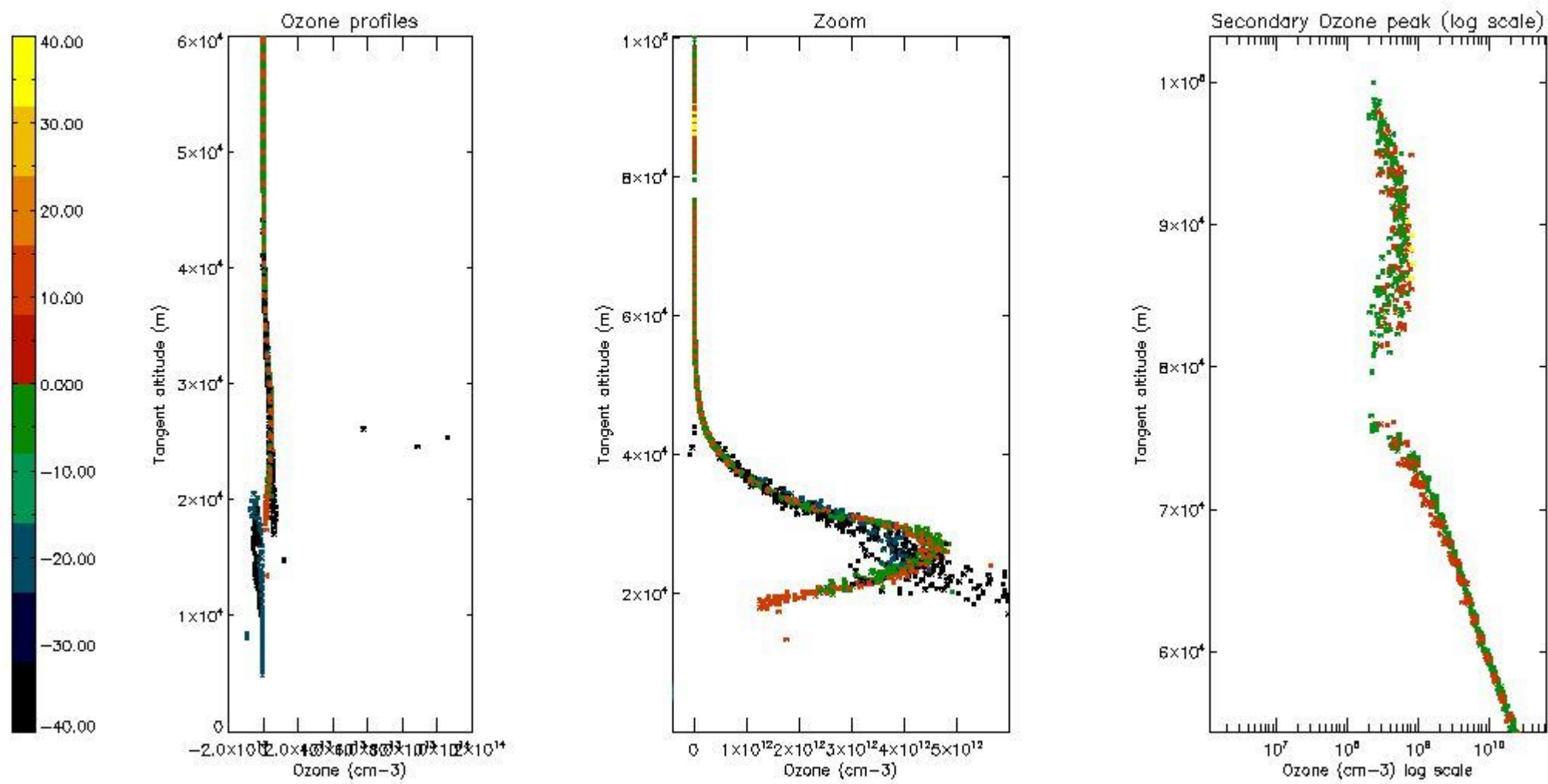
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



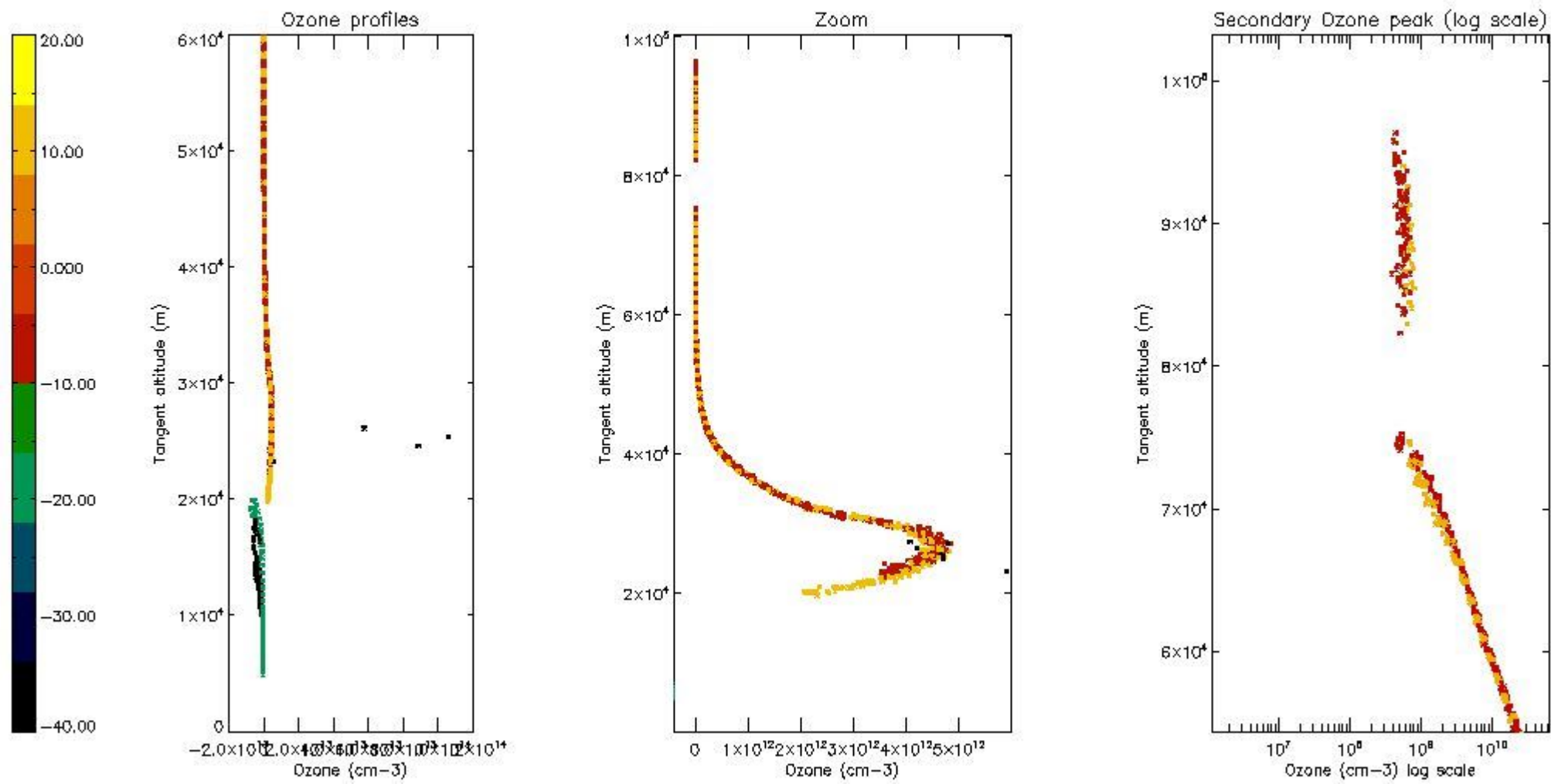
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



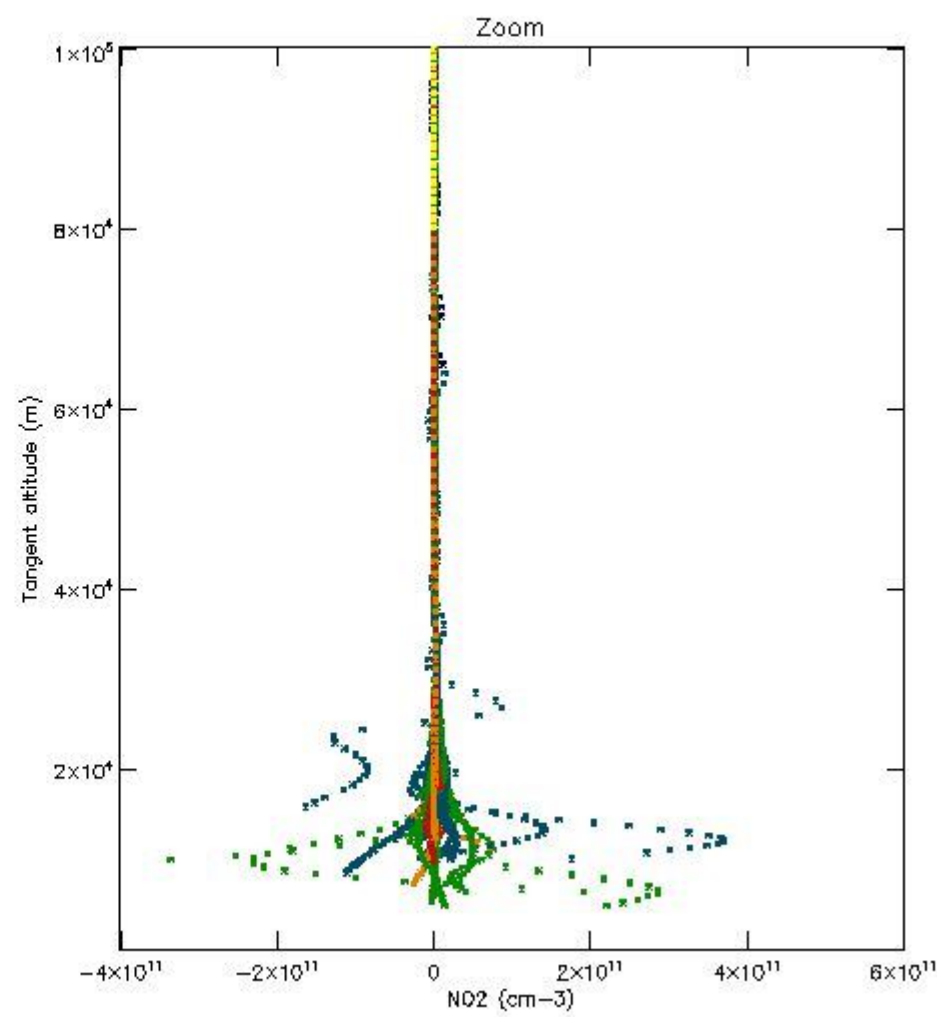
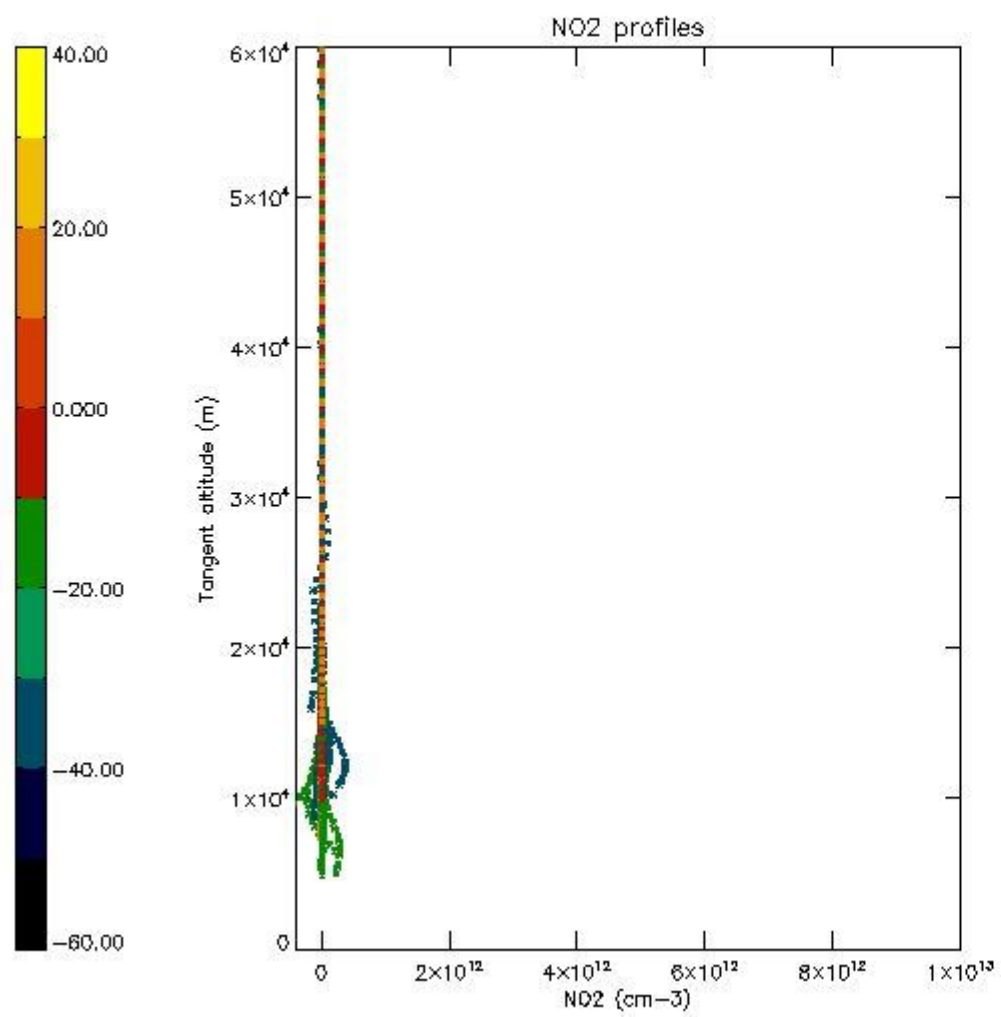
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



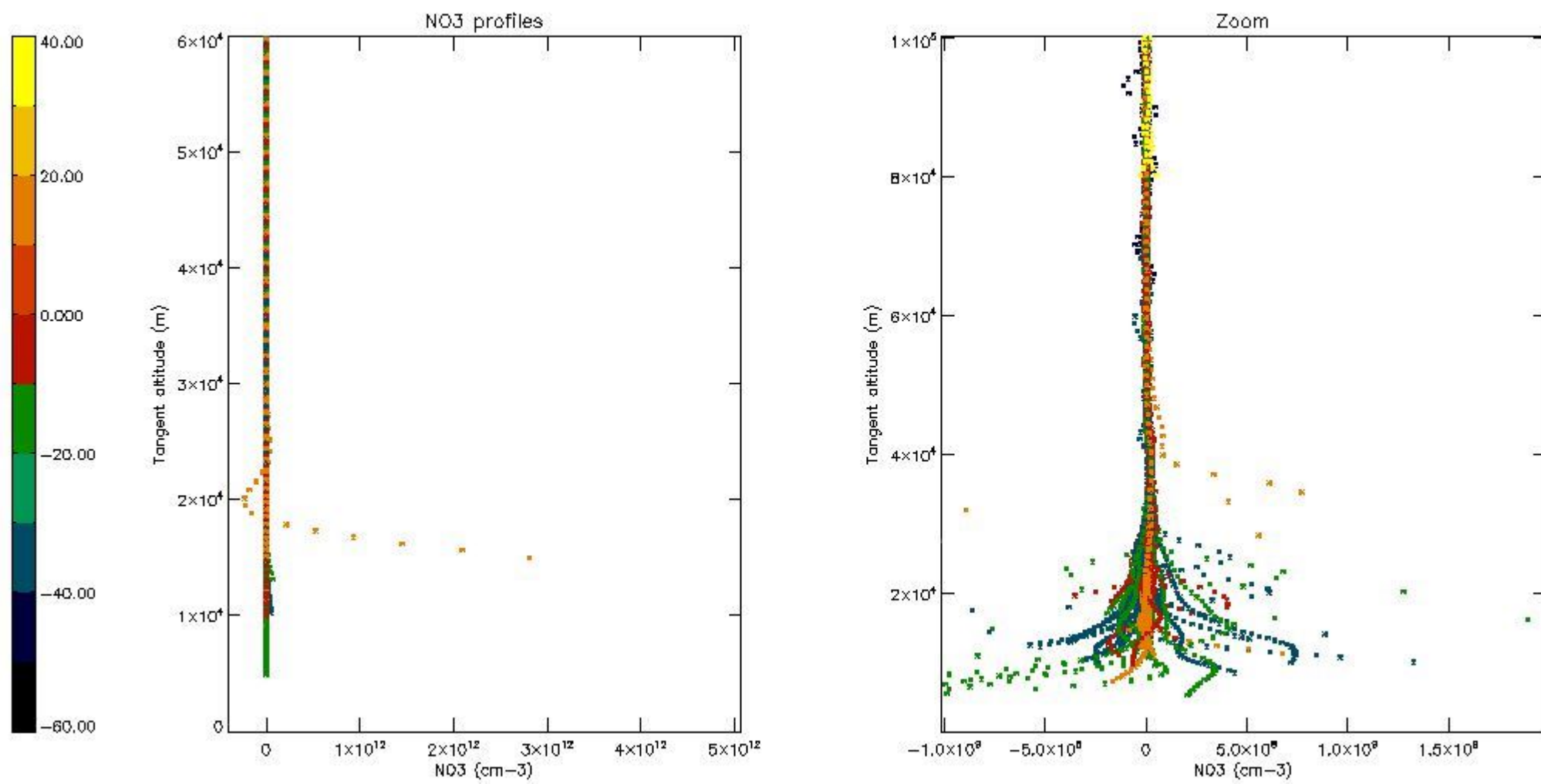
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



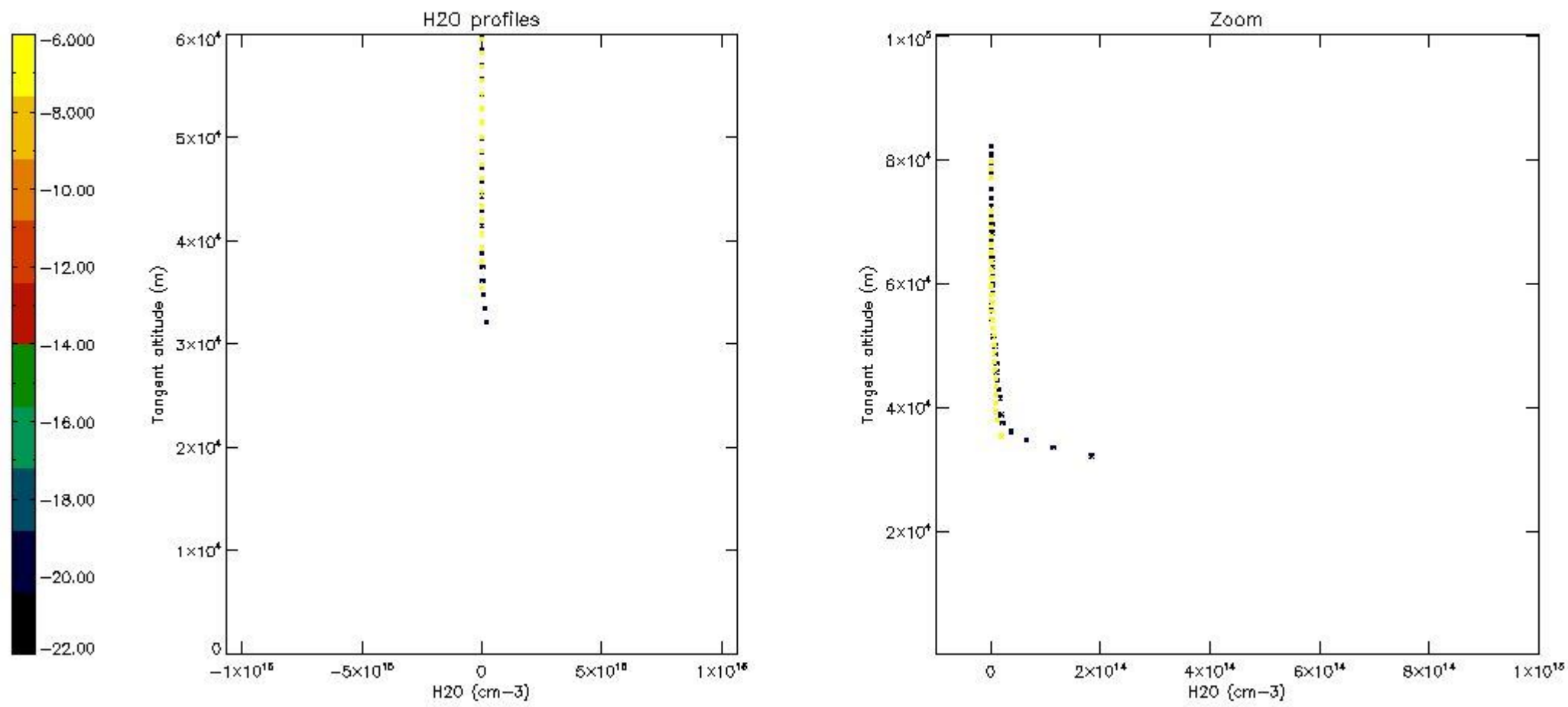
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

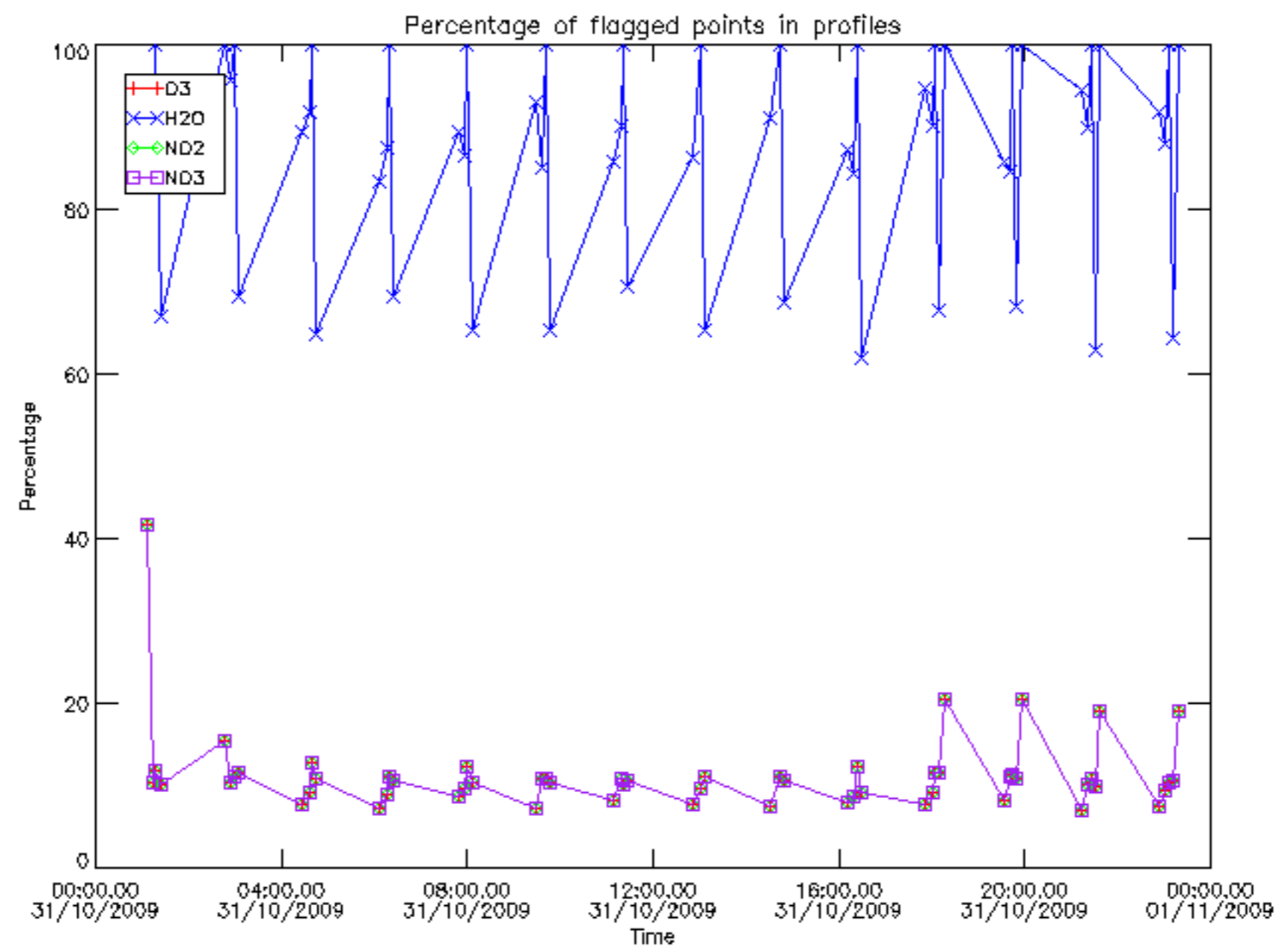
The colorbar represents the latitude.



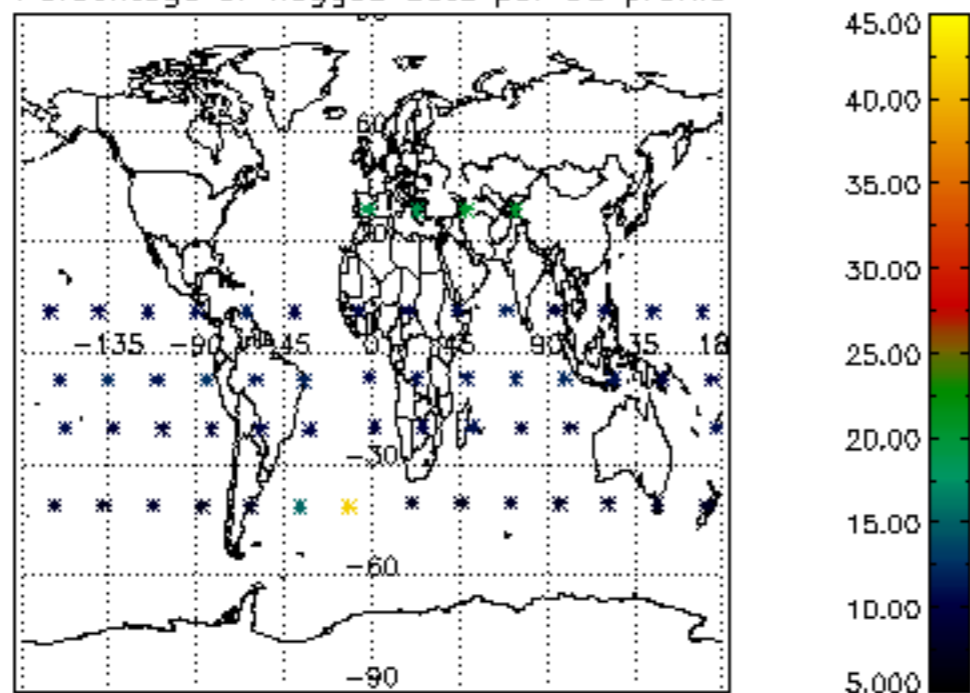
6. Auxiliary Data Files used for the production reported in section 2

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

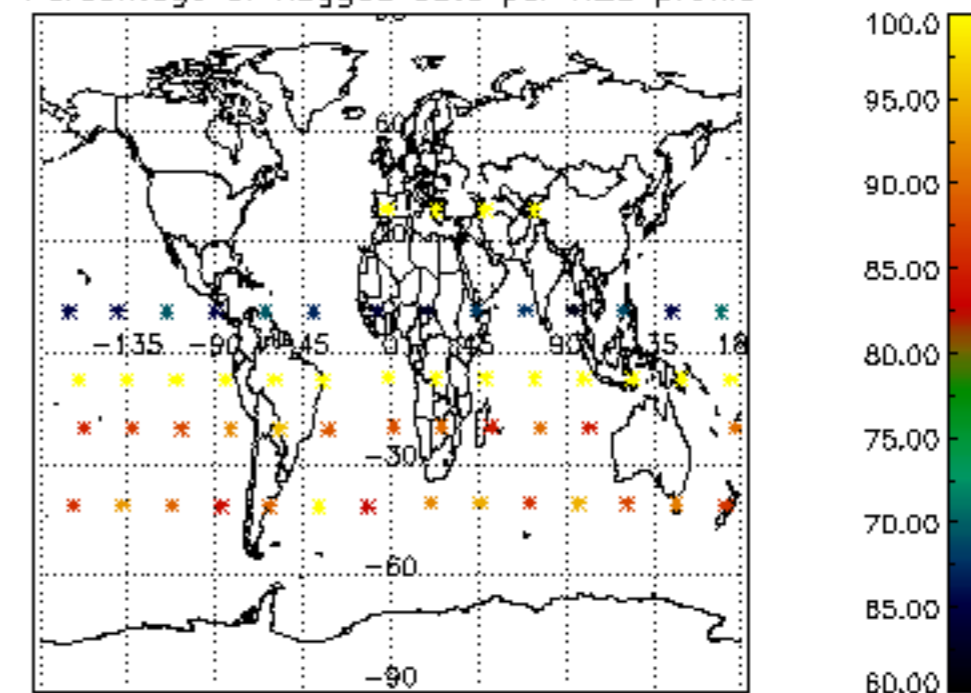
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	31-OCT-2009 00:07:51
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	31-OCT-2009 00:07:51
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	31-OCT-2009 00:07:51



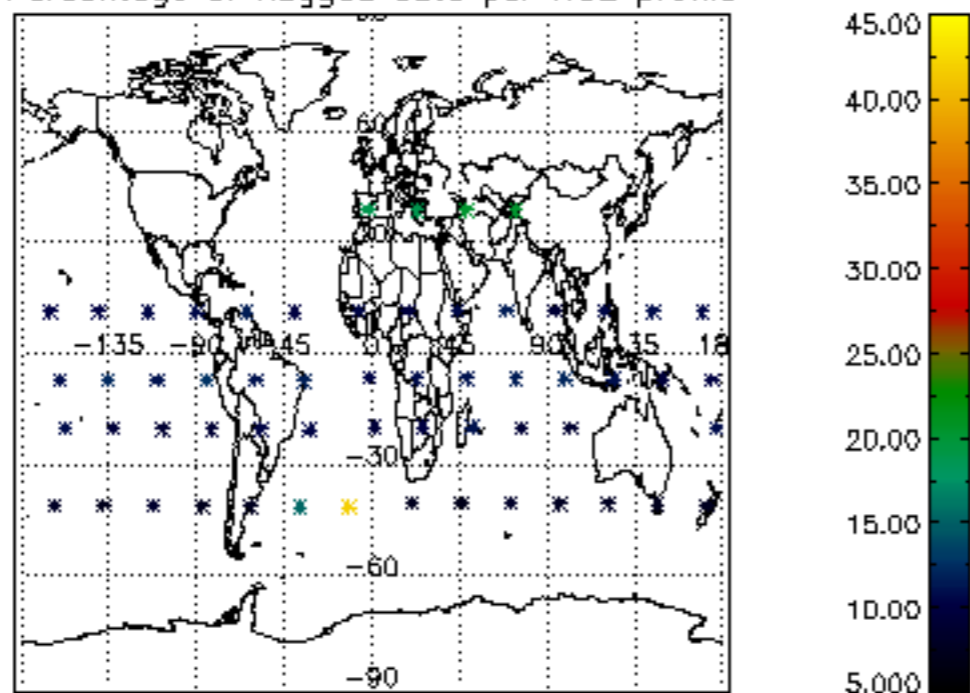
Percentage of flagged data per D3 profile



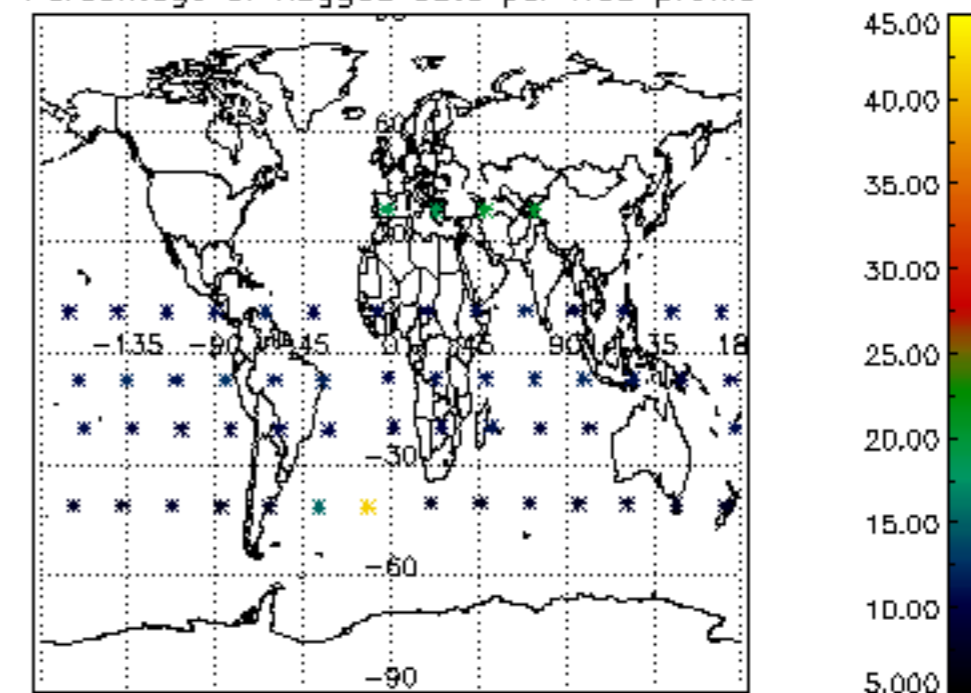
Percentage of flagged data per H2O profile

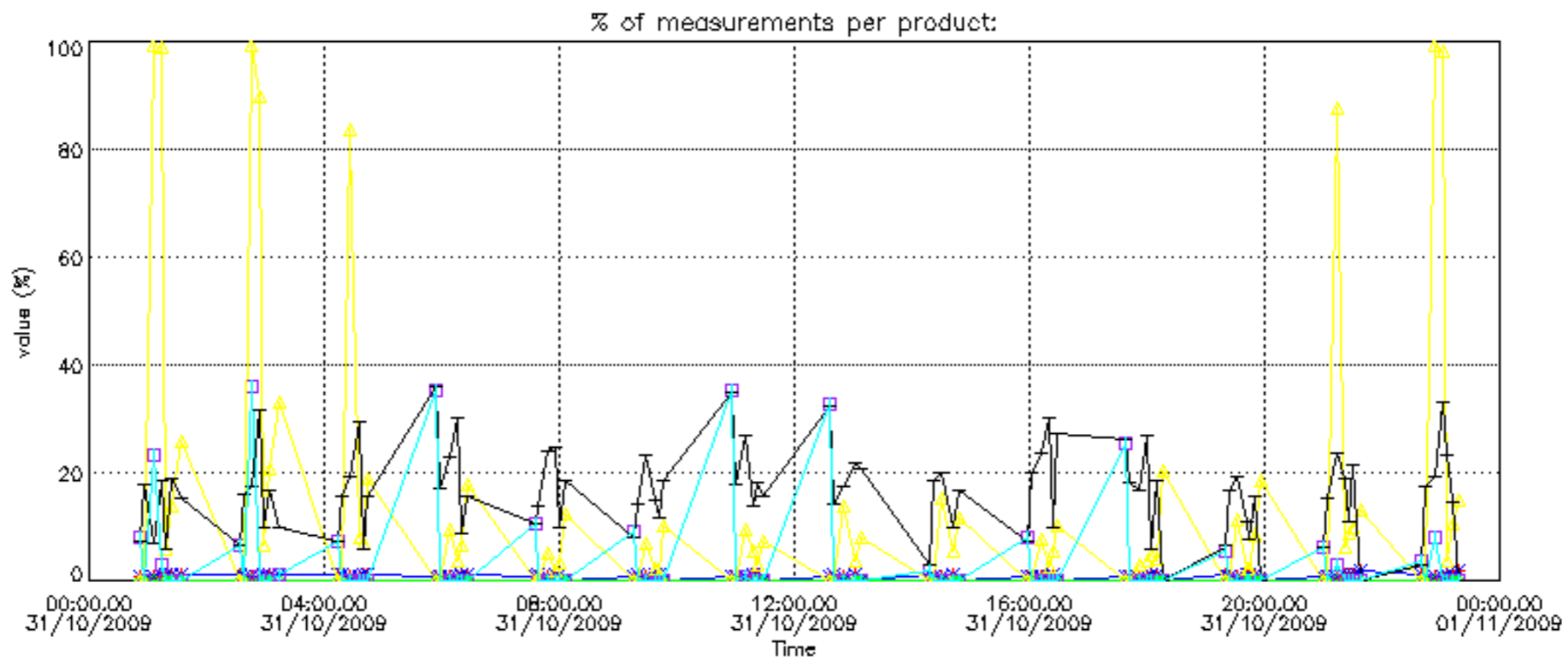


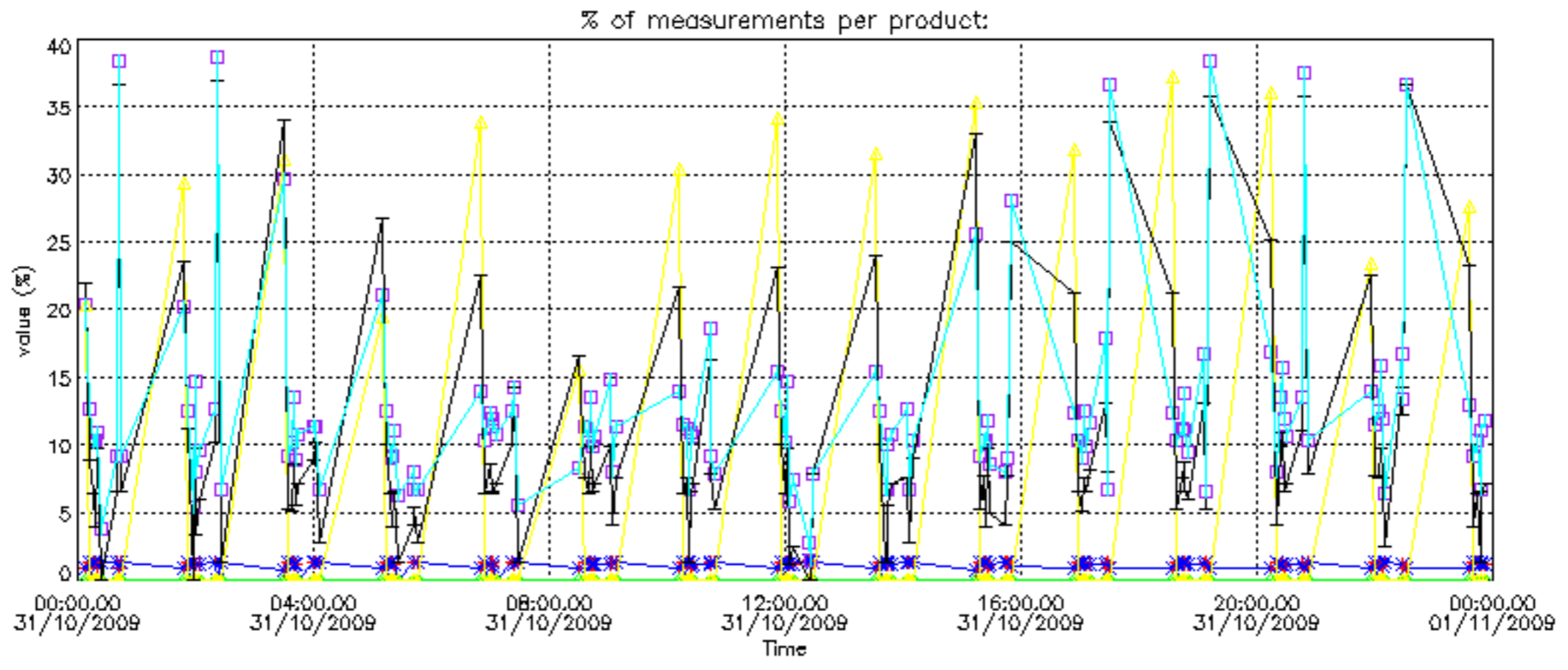
Percentage of flagged data per NO2 profile



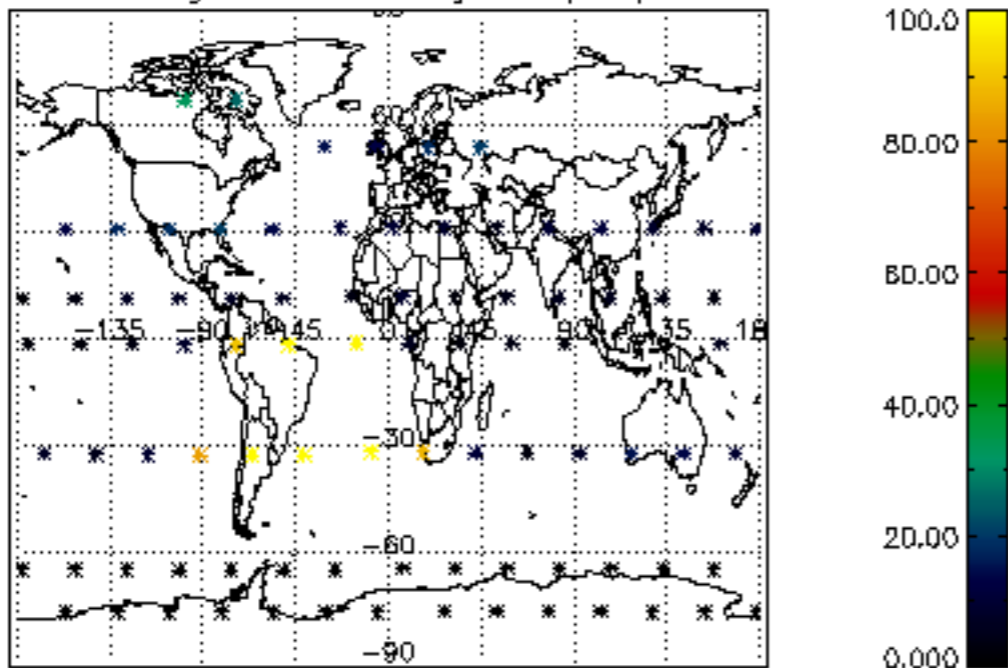
Percentage of flagged data per NO3 profile



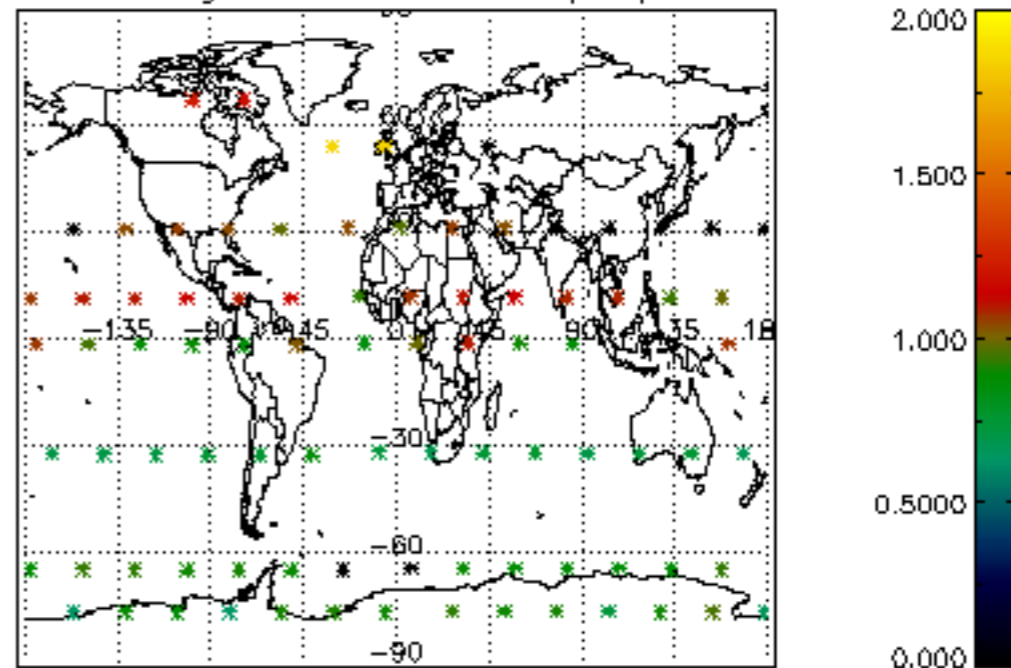




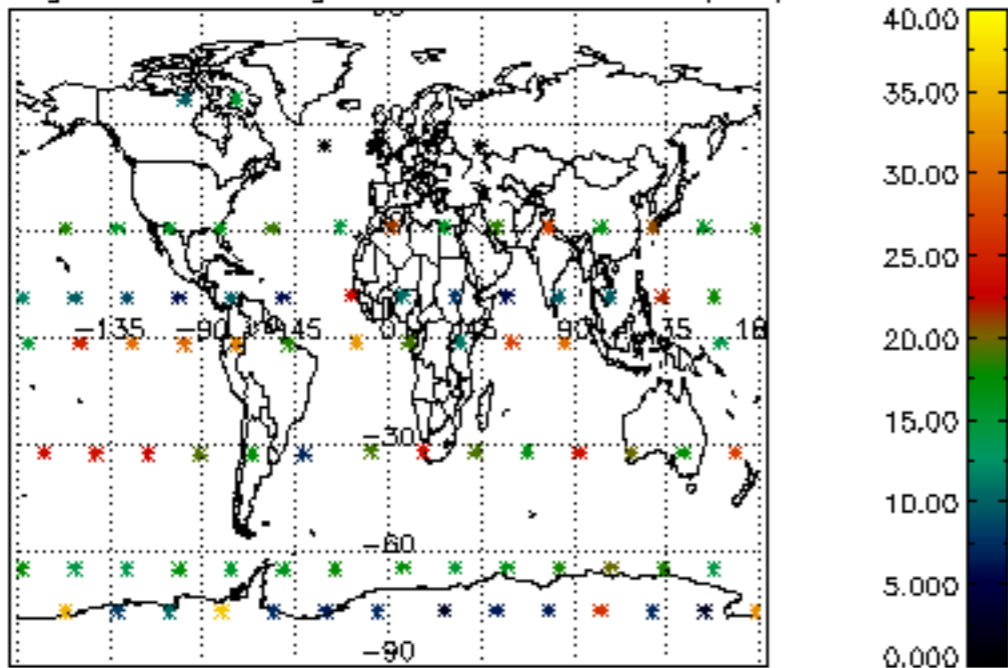
Percentage of cosmic ray hits per profile



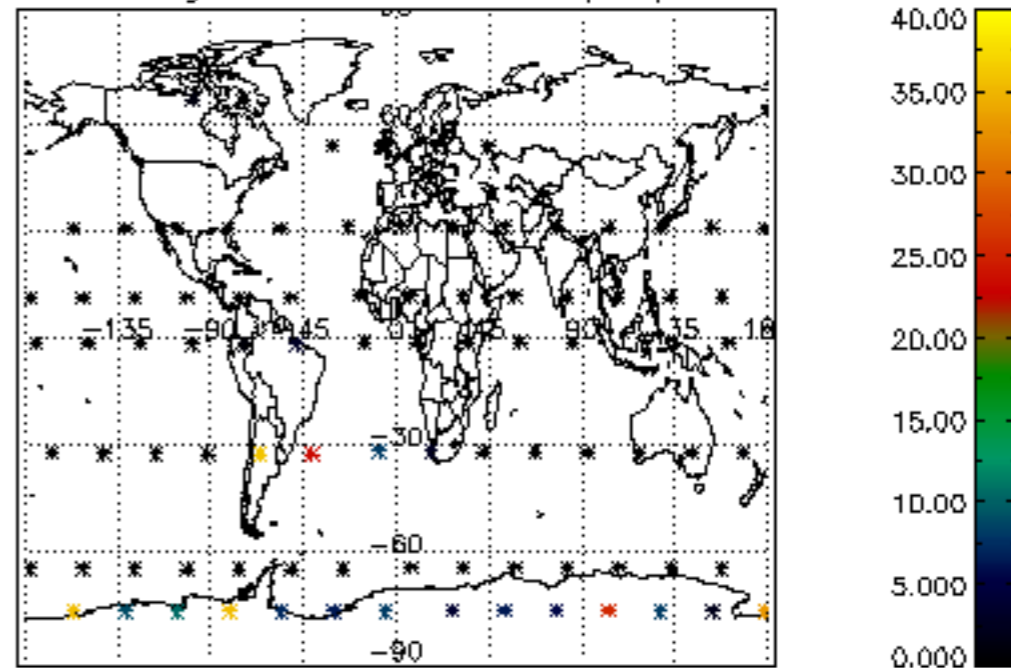
Percentage of datation errors per profile



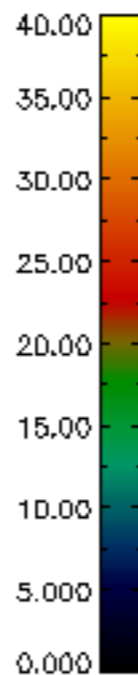
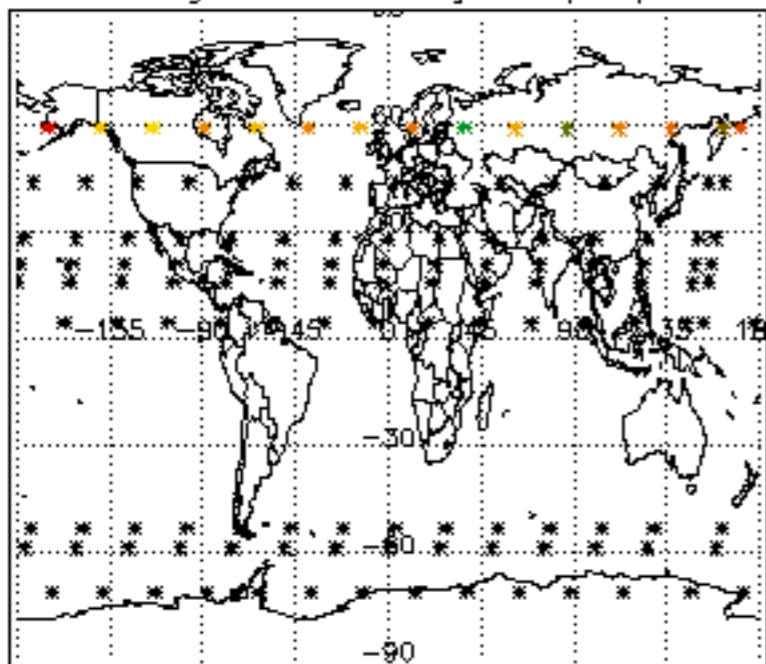
Percentage of star falling outside central band per profile



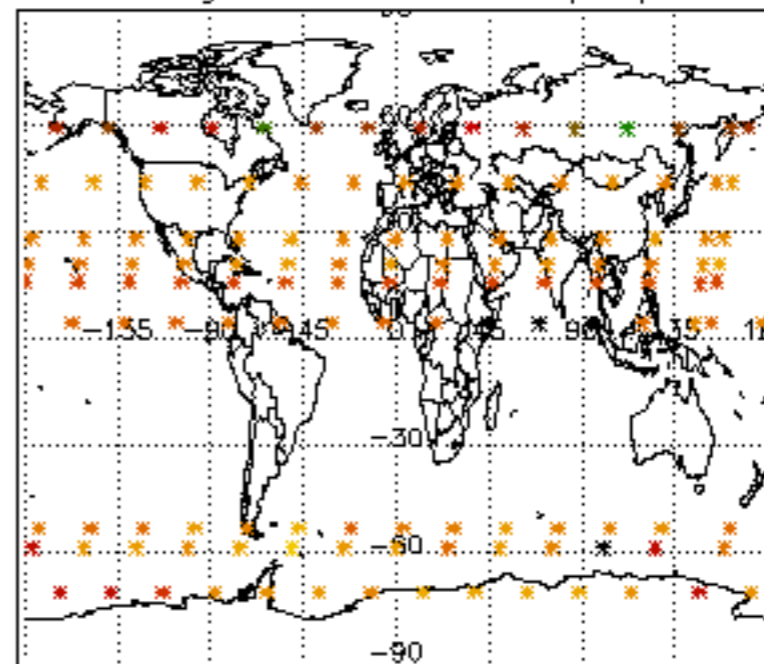
Percentage of saturation errors per profile



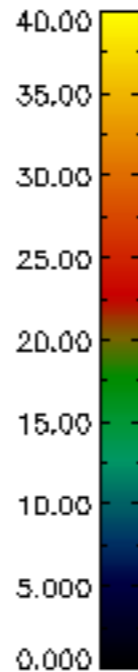
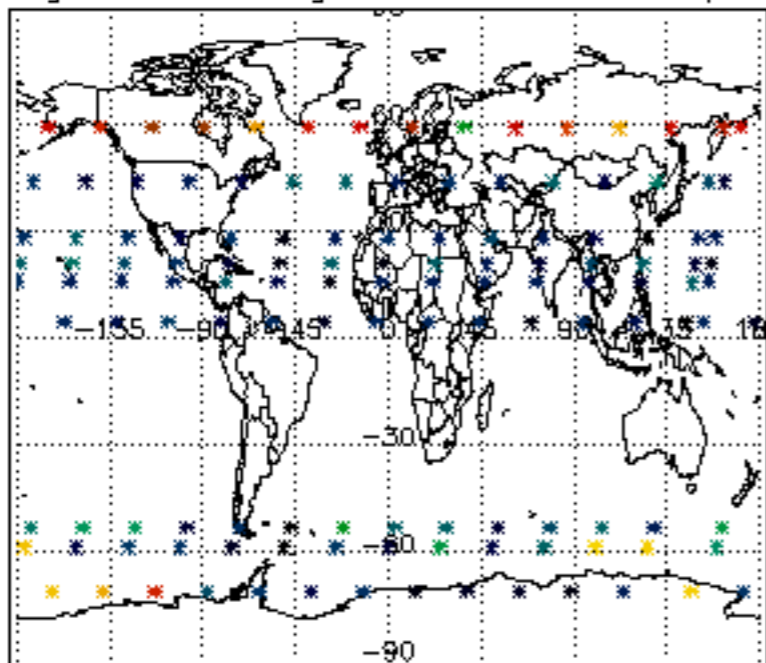
Percentage of cosmic ray hits per profile



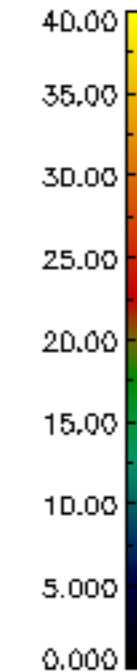
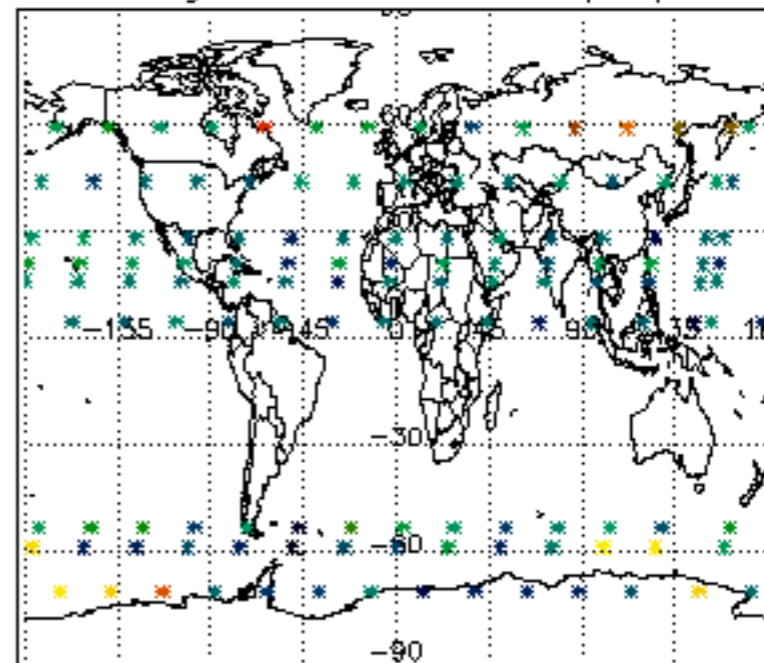
Percentage of datation errors per profile

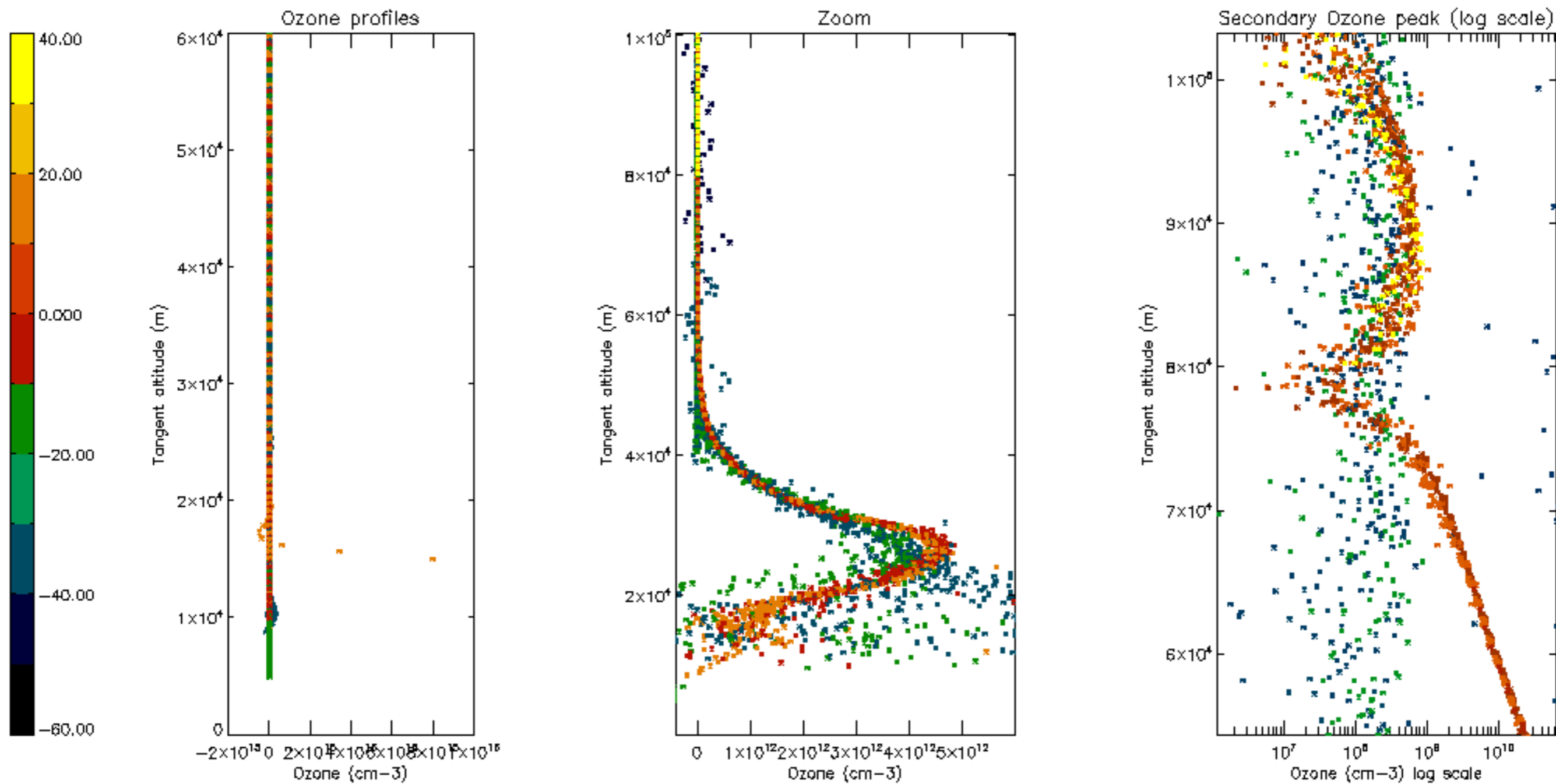


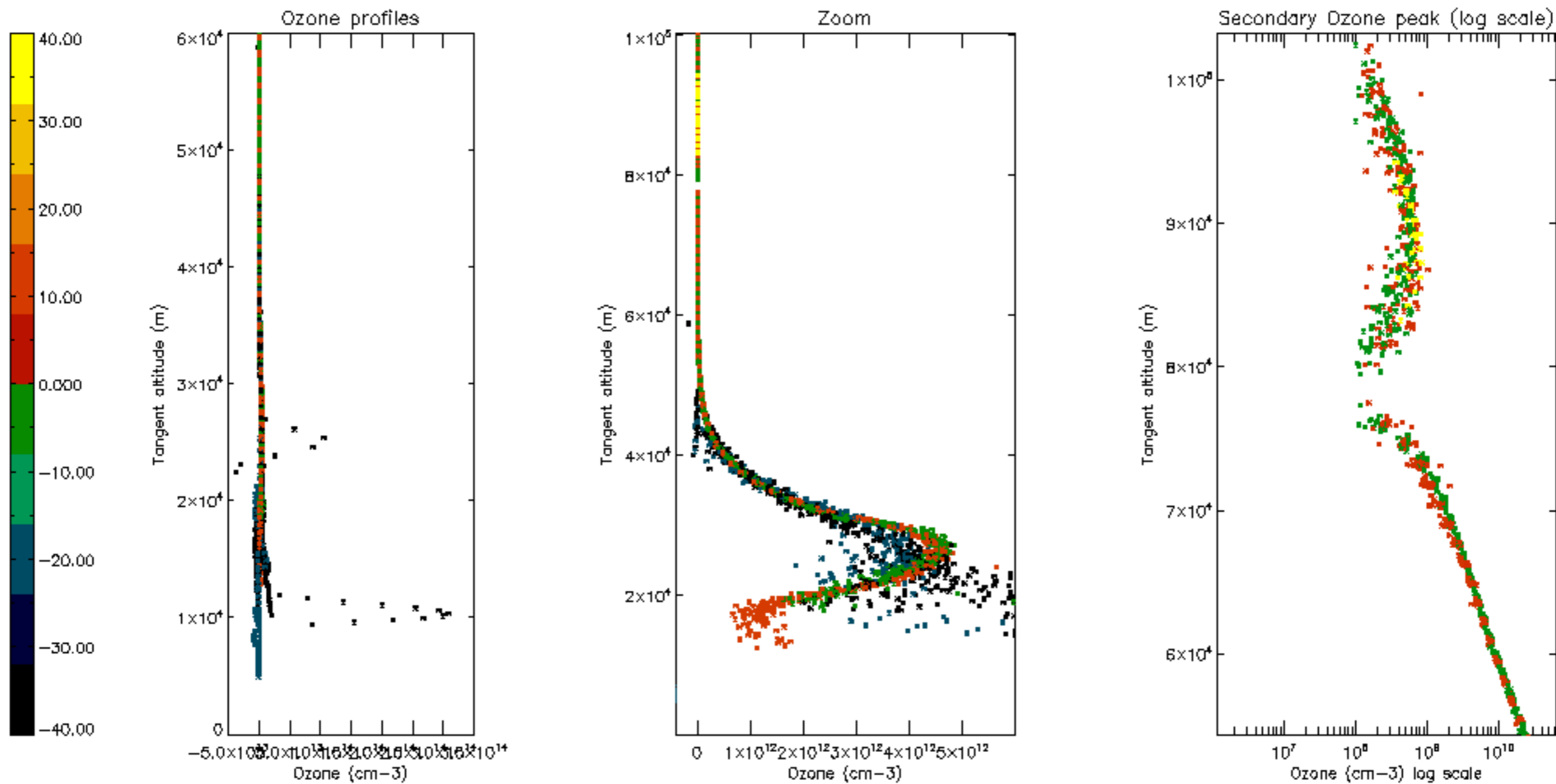
Percentage of star falling outside central band per profile

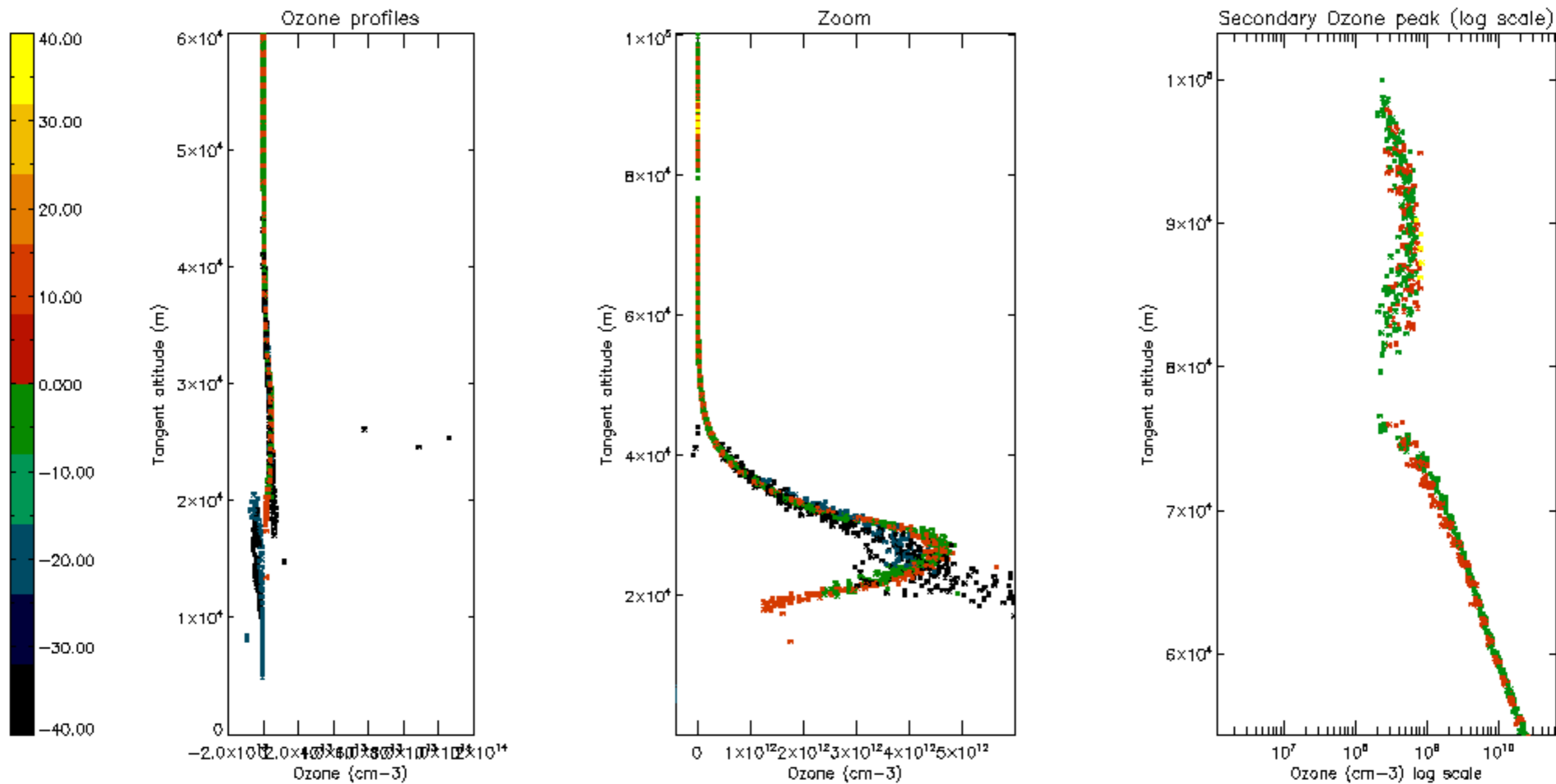


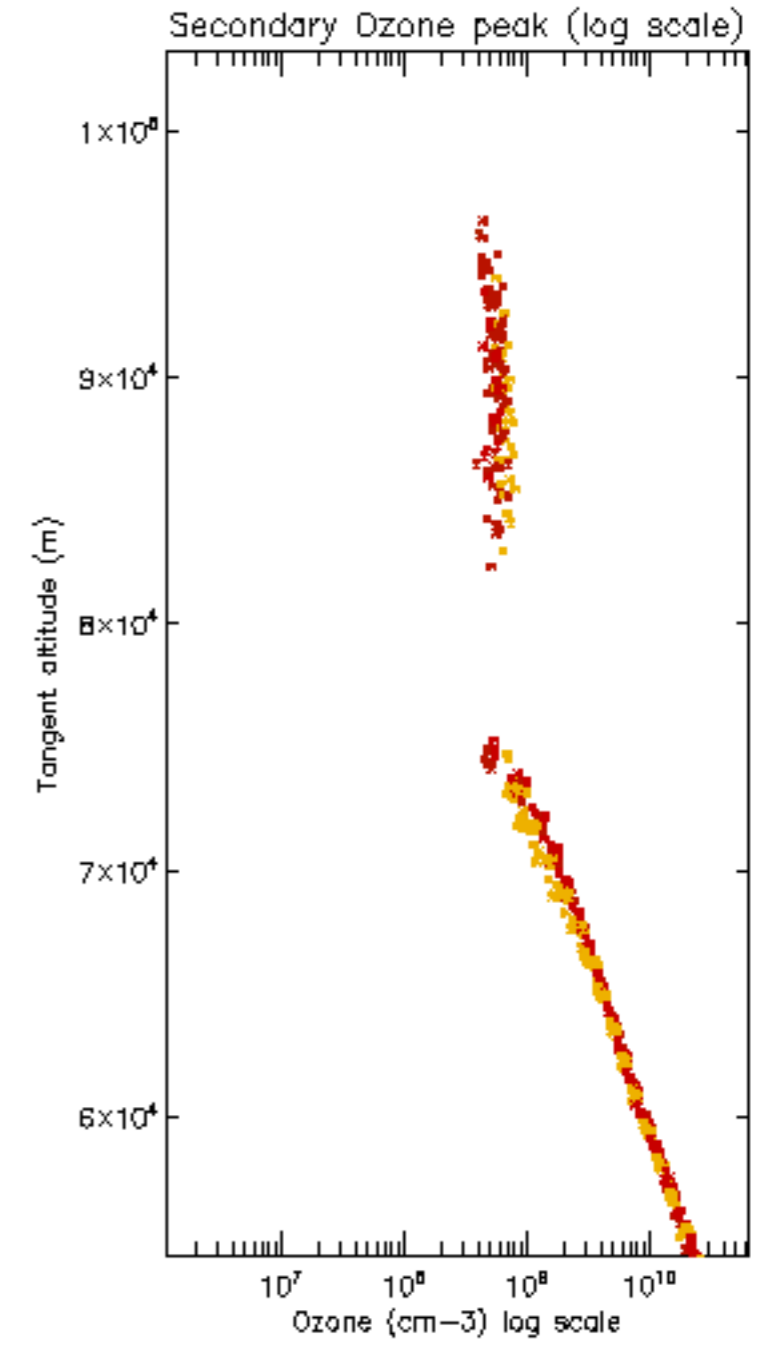
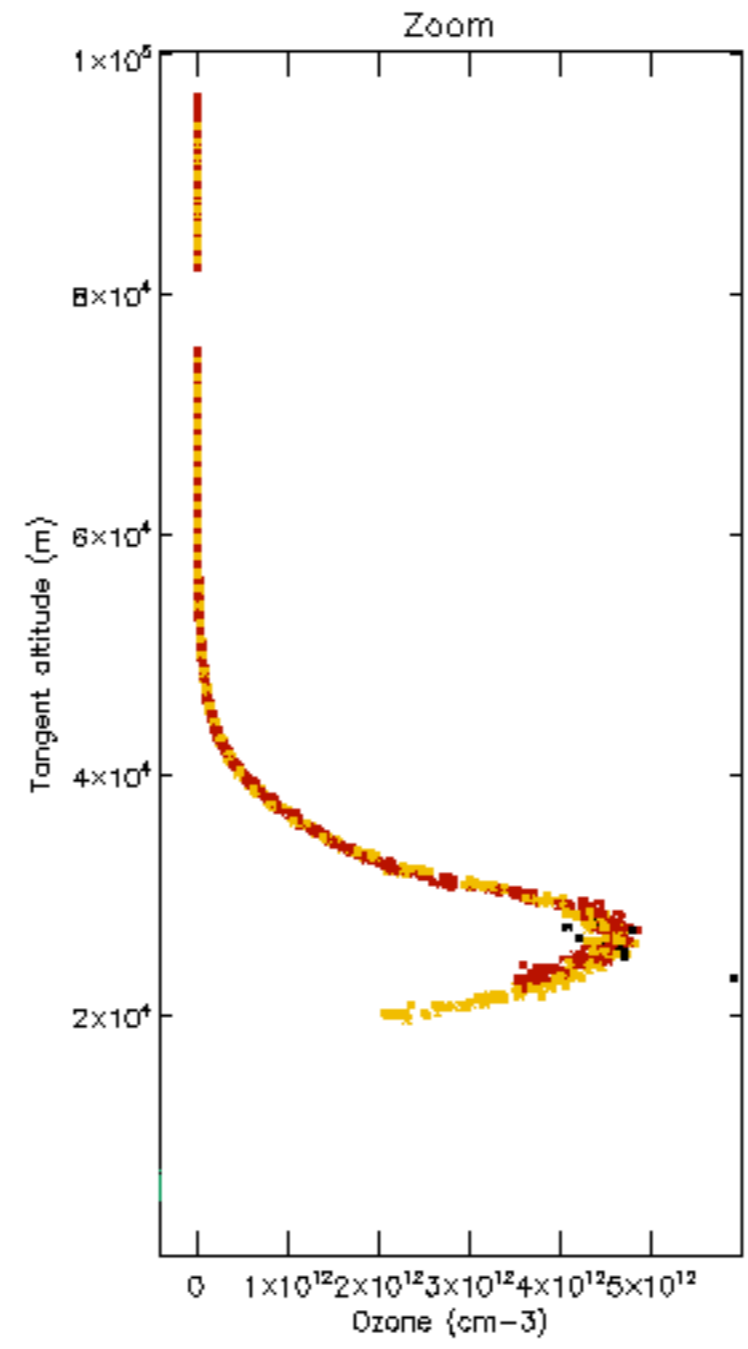
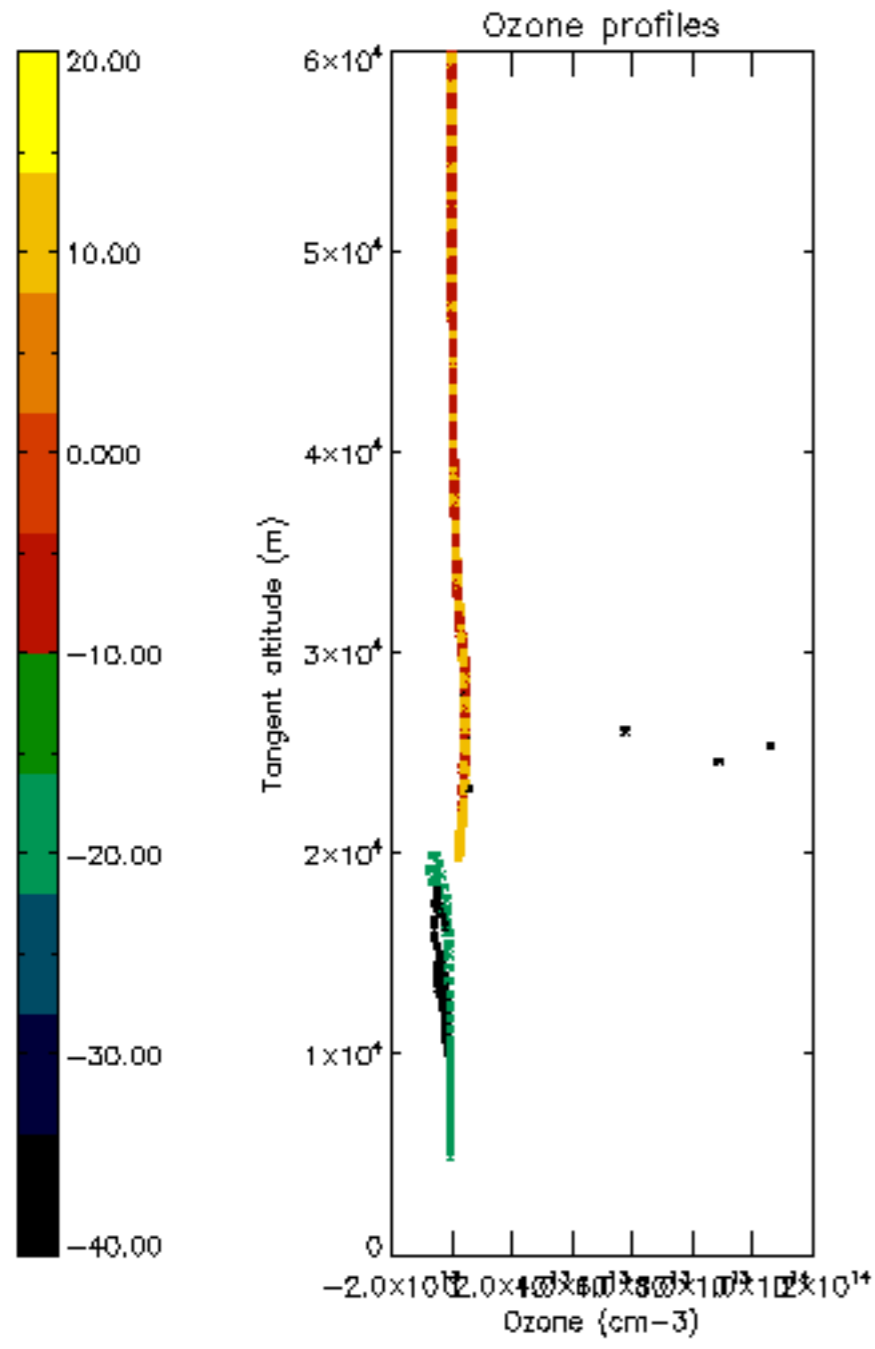
Percentage of saturation errors per profile

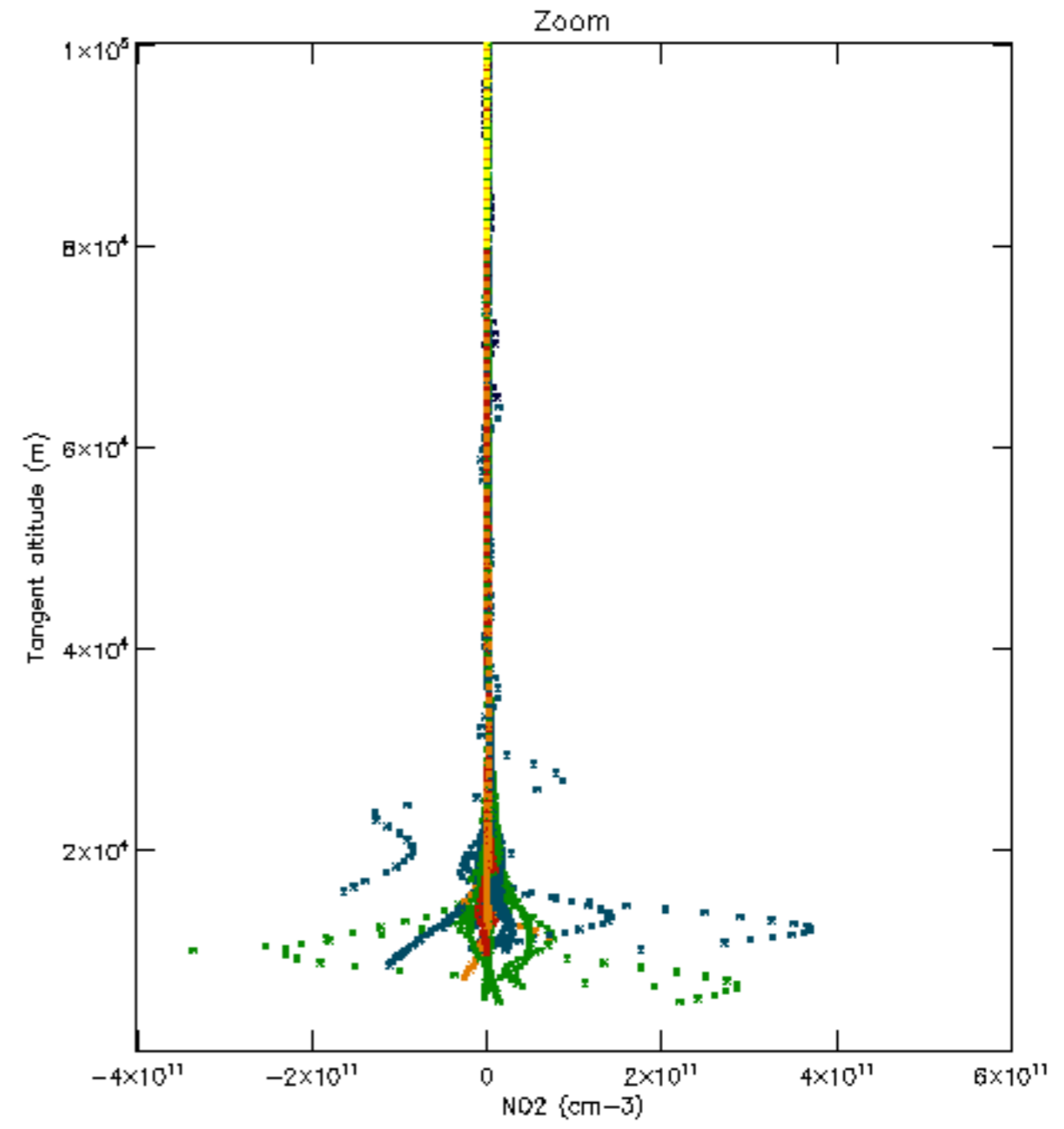
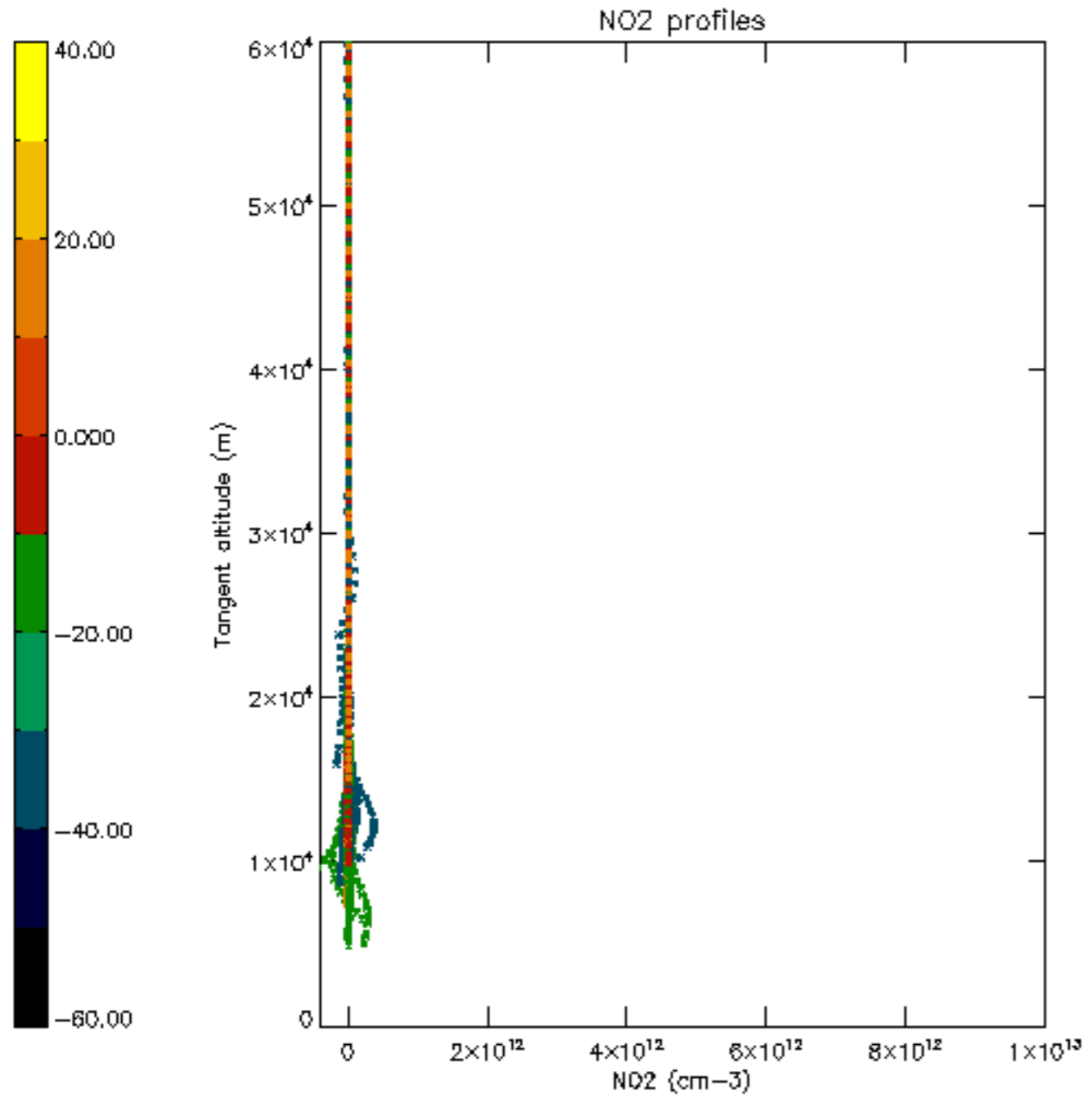


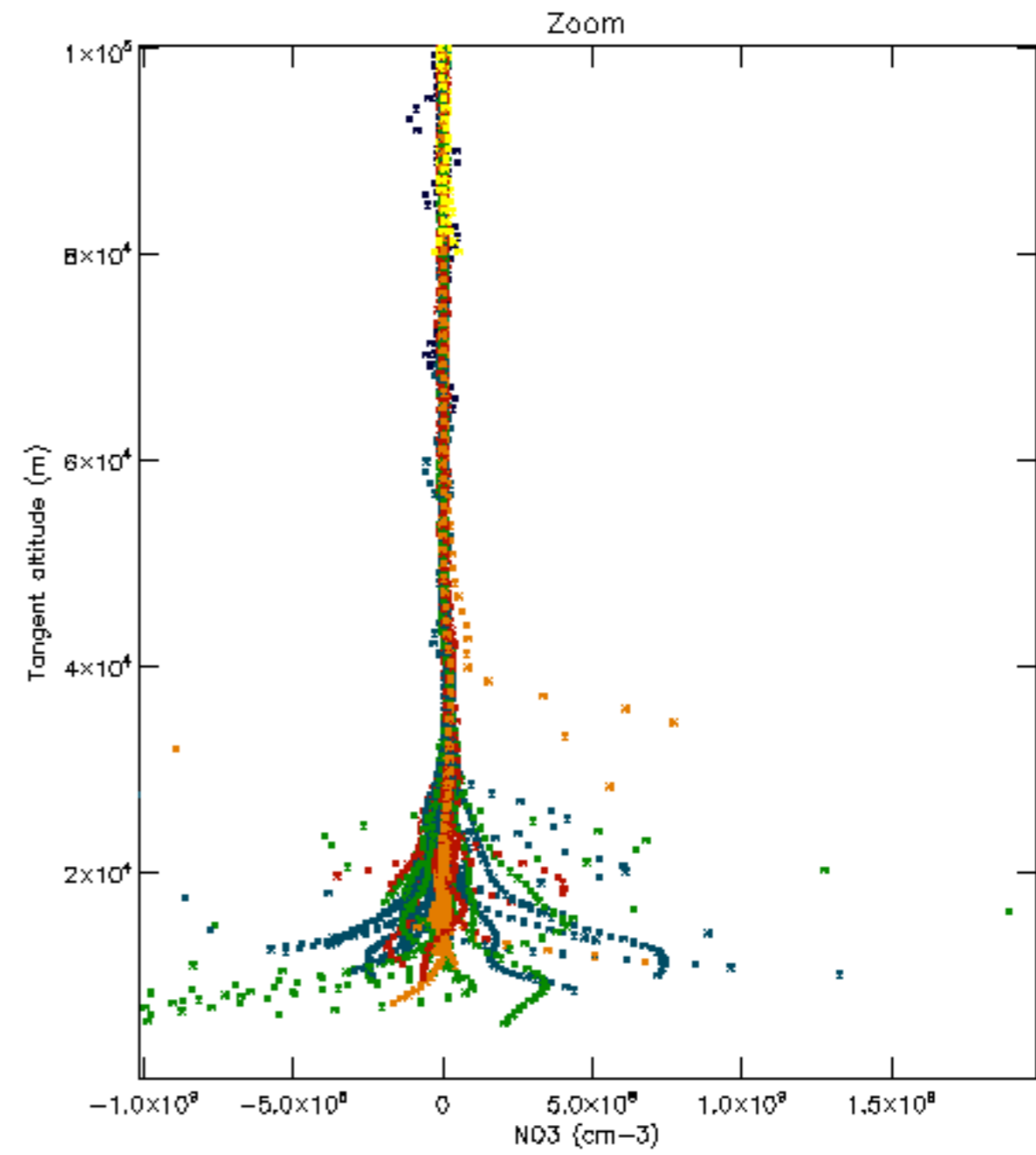
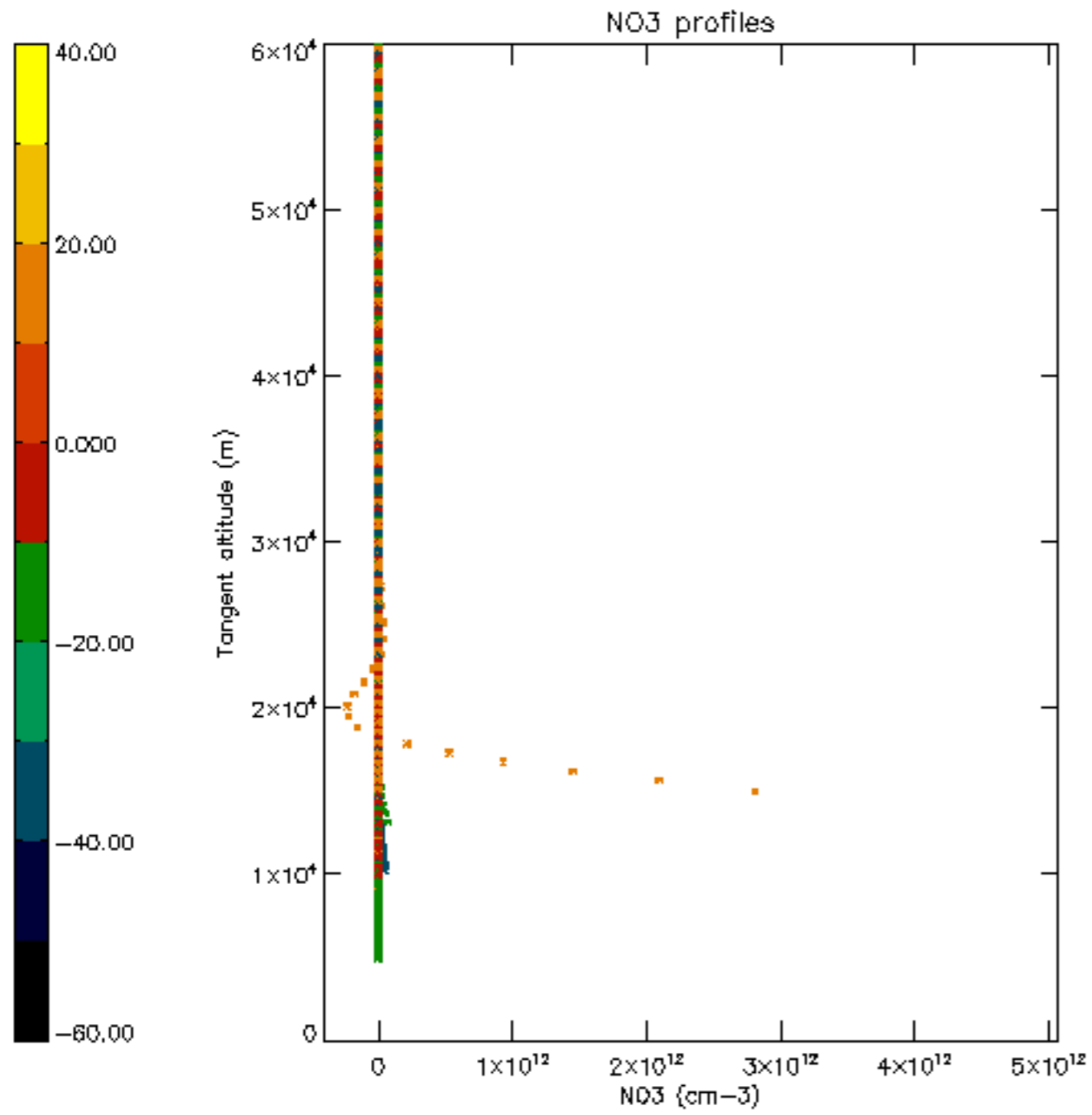


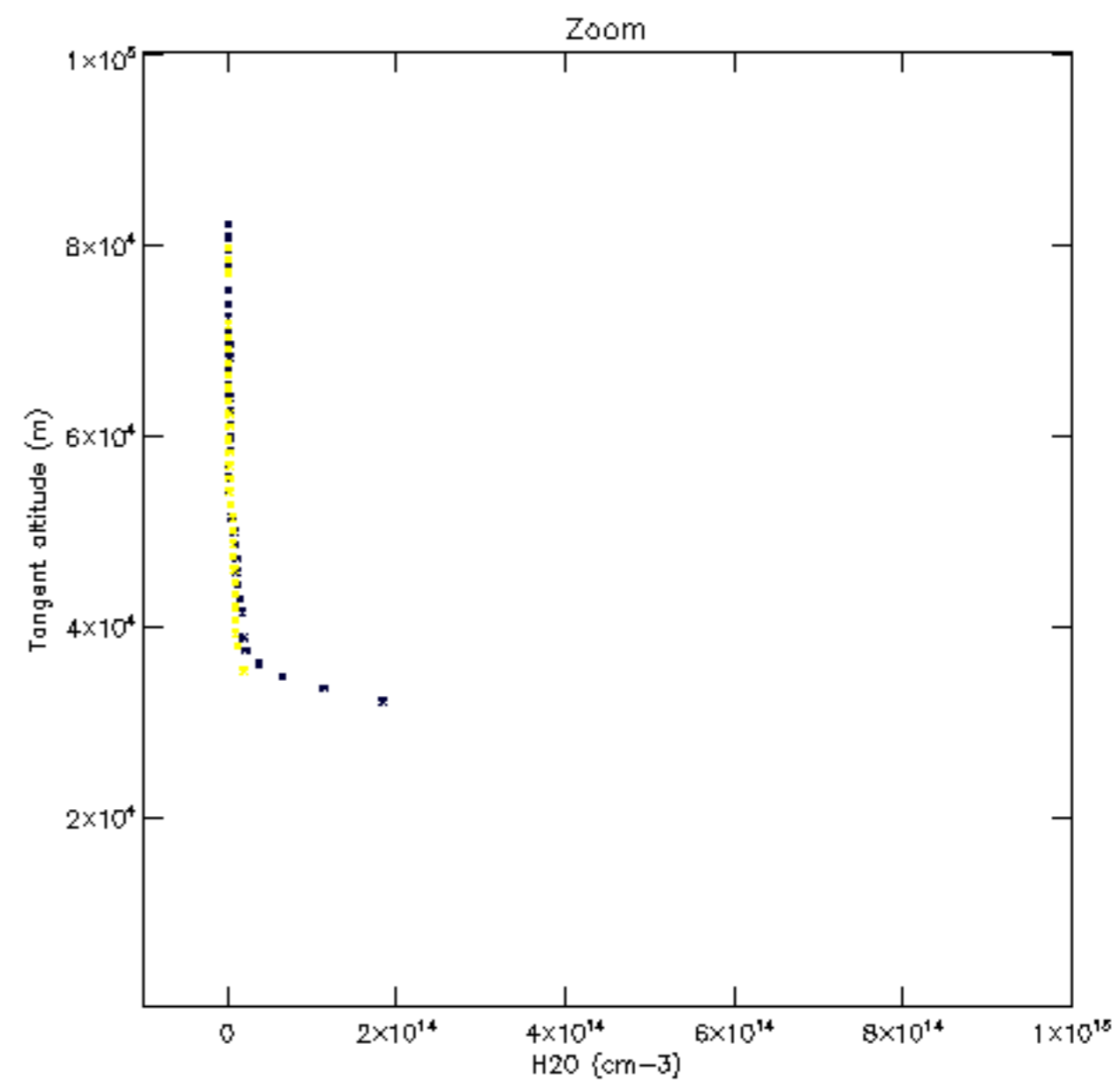
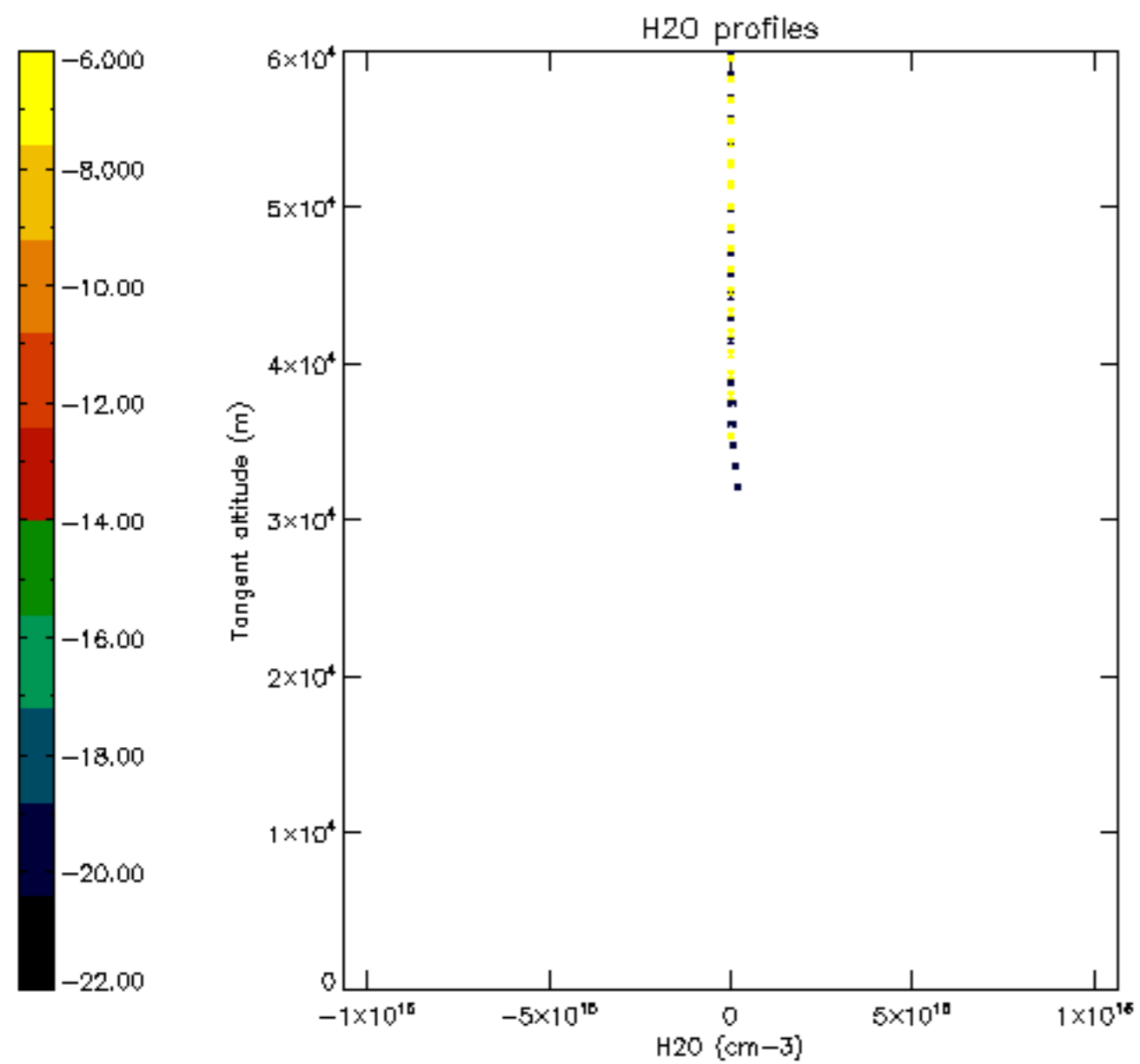


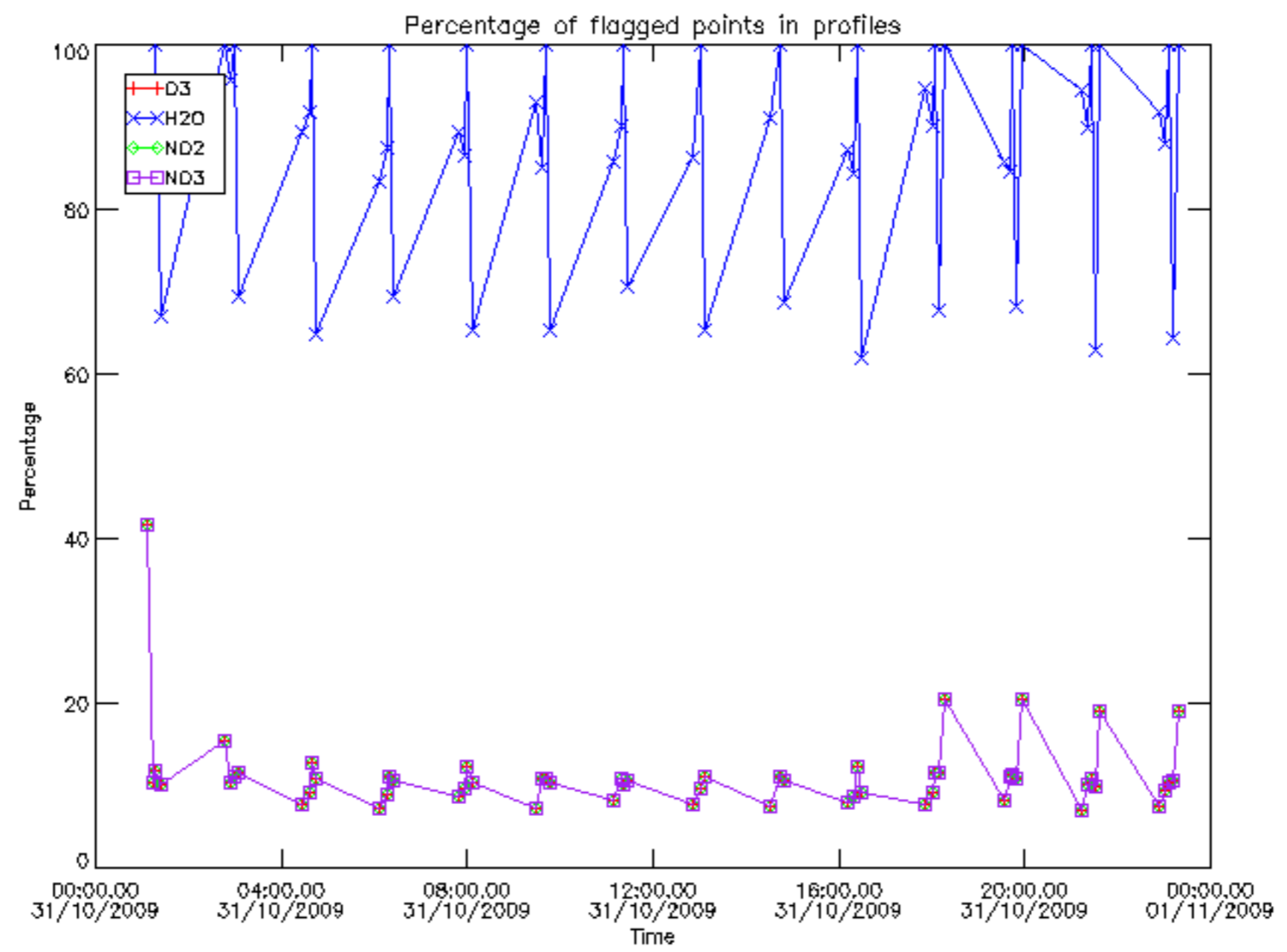




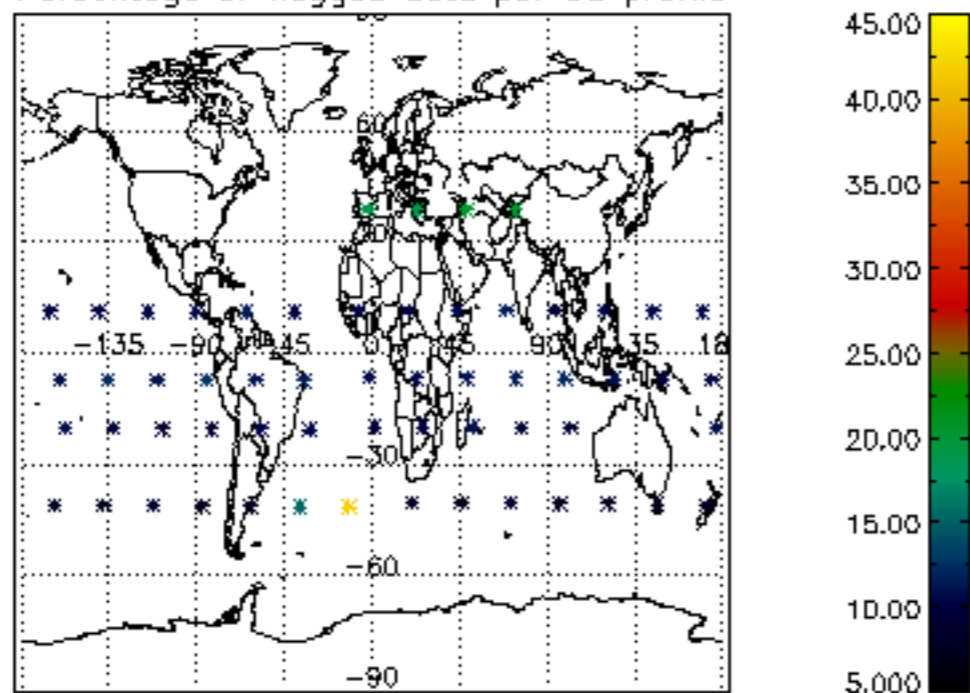




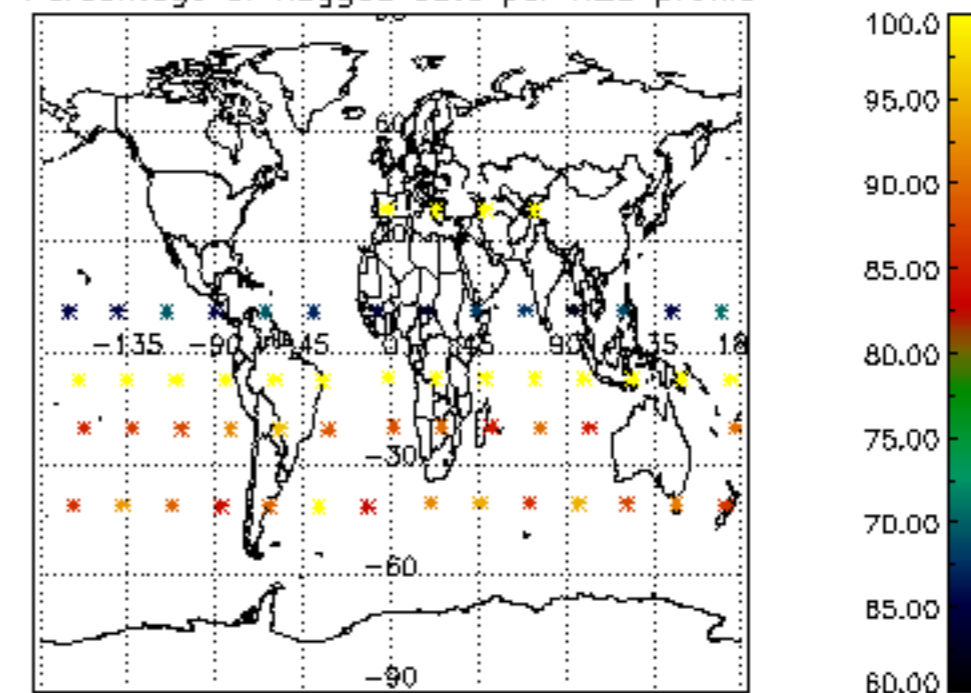




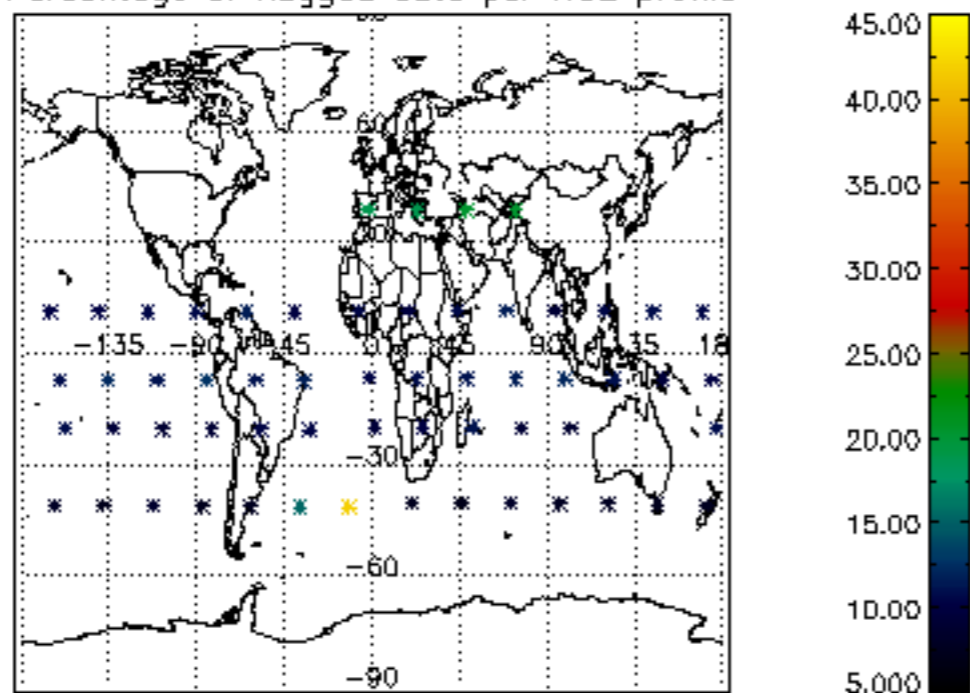
Percentage of flagged data per D3 profile



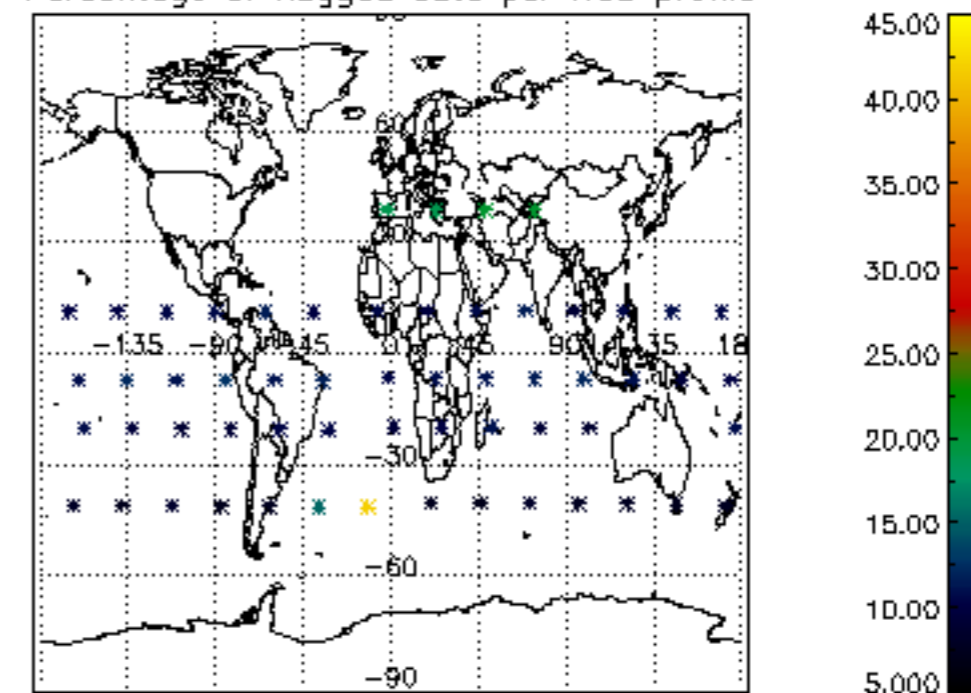
Percentage of flagged data per H2O profile

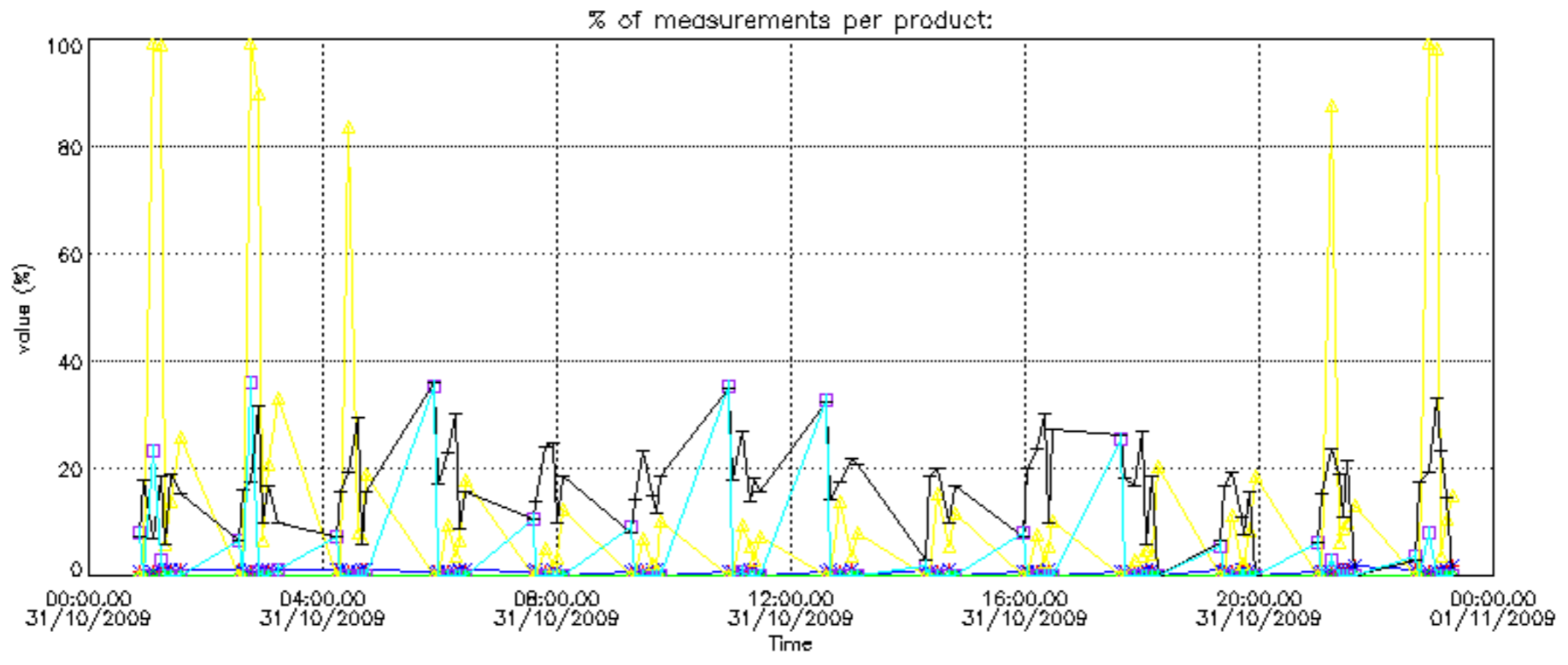


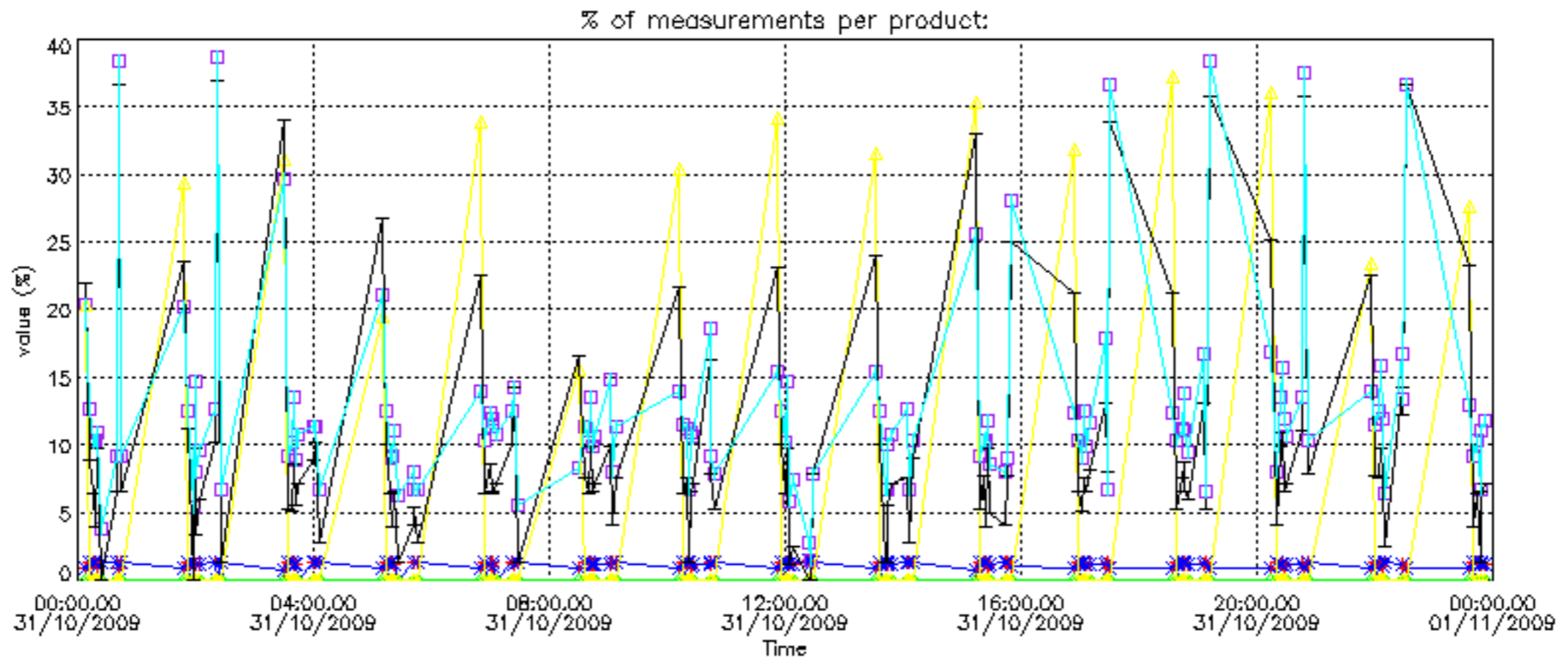
Percentage of flagged data per NO2 profile



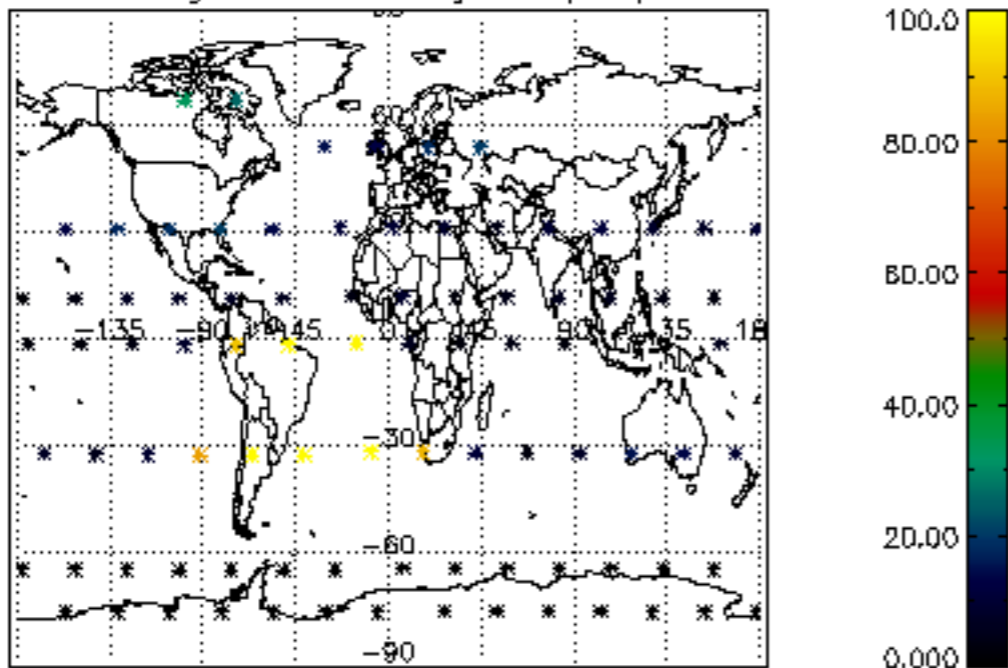
Percentage of flagged data per NO3 profile



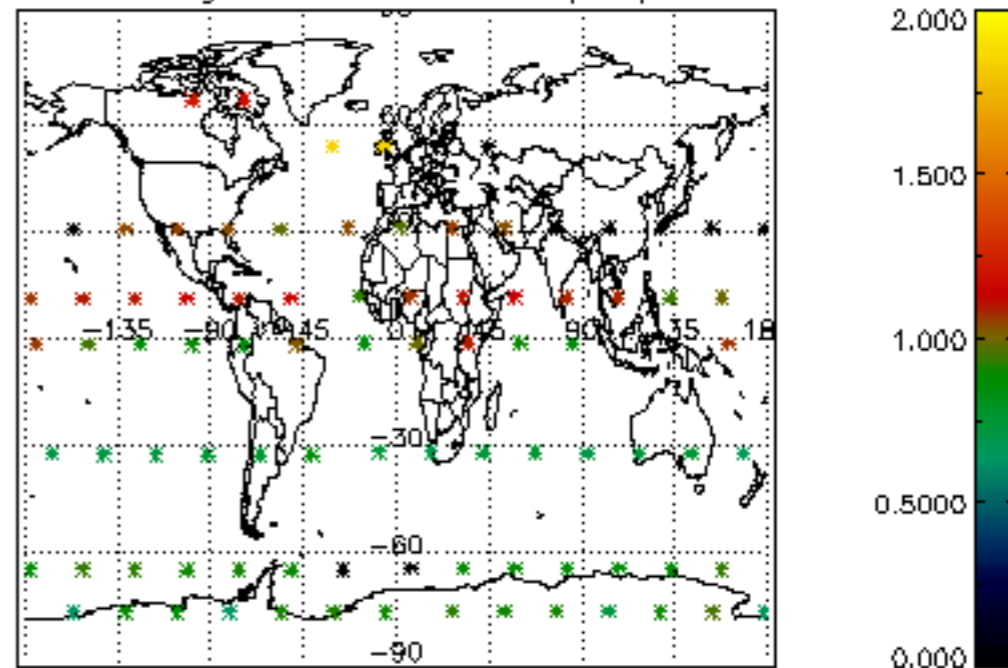




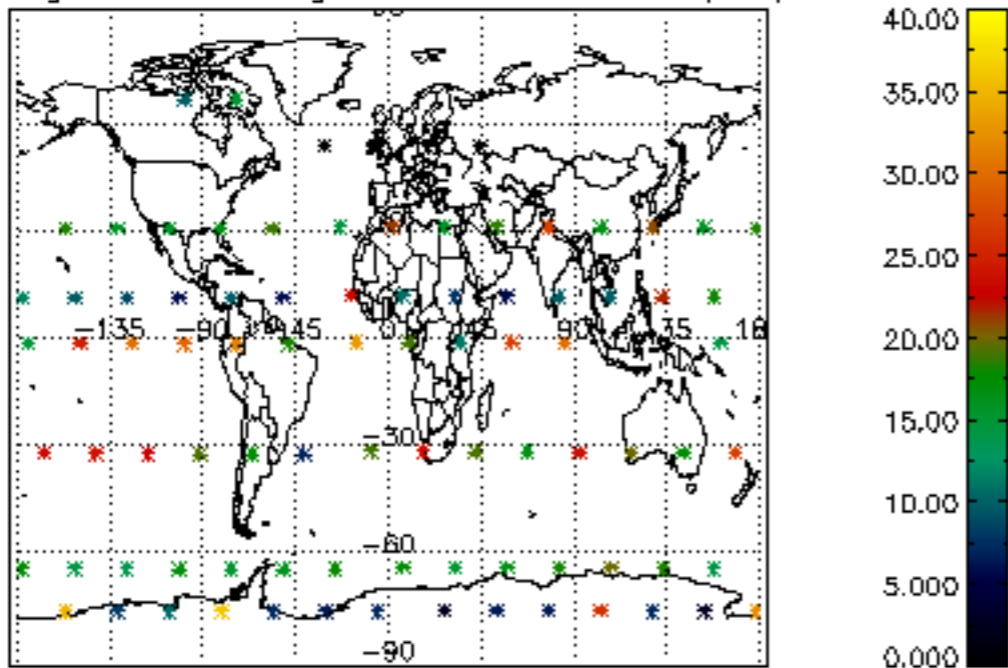
Percentage of cosmic ray hits per profile



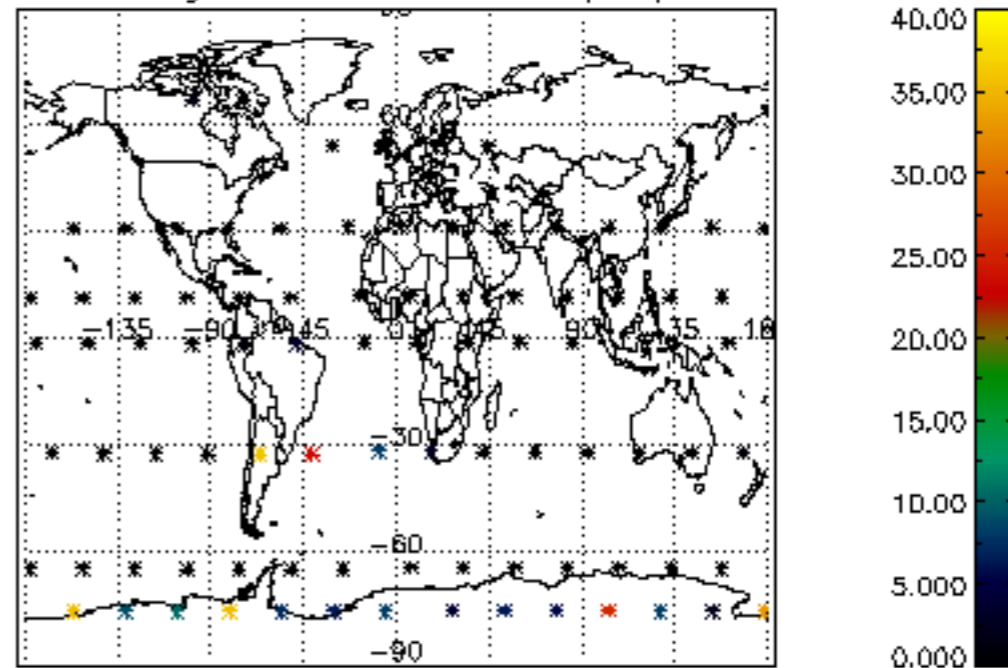
Percentage of datation errors per profile



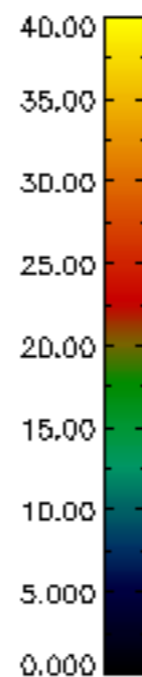
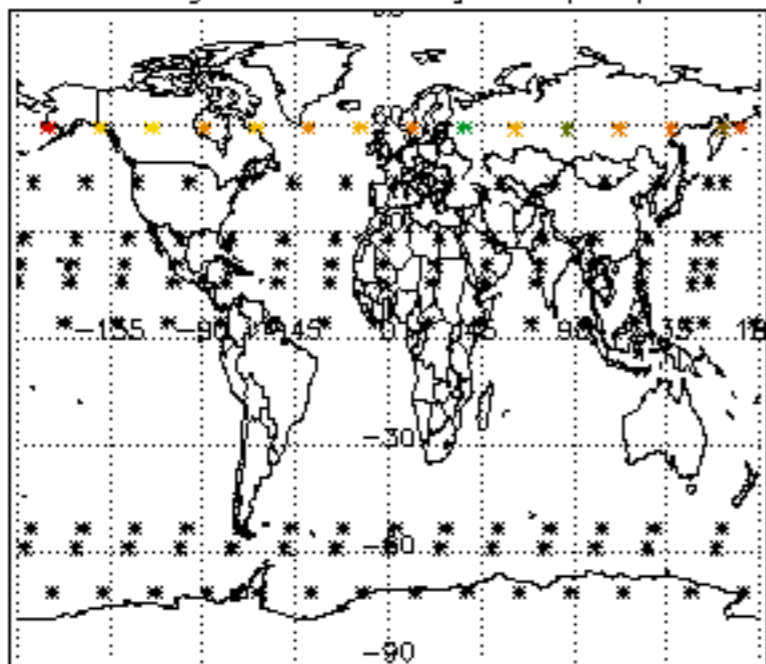
Percentage of star falling outside central band per profile



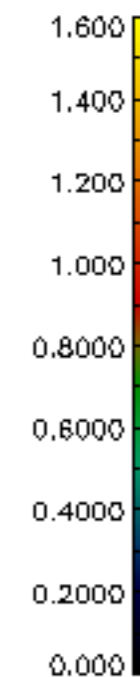
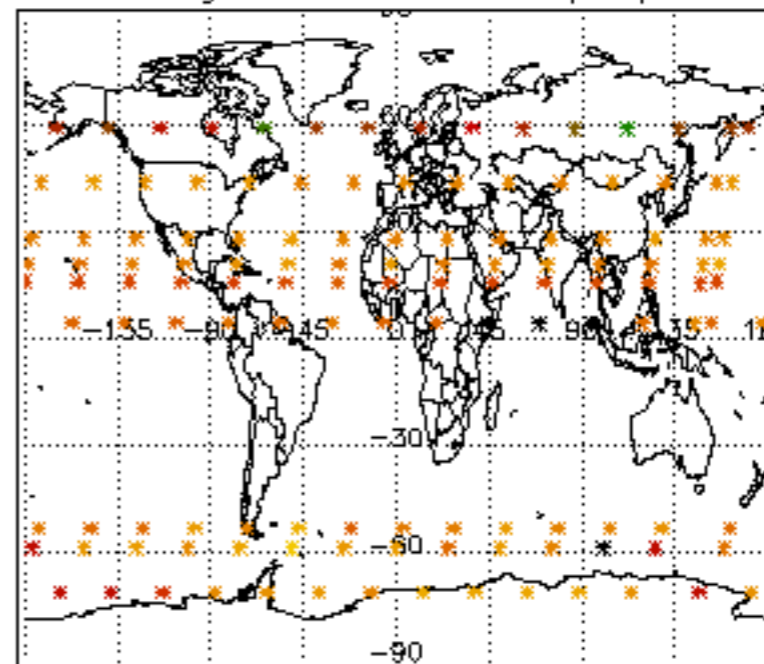
Percentage of saturation errors per profile



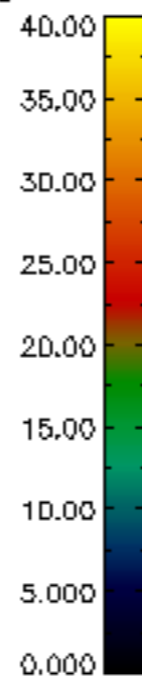
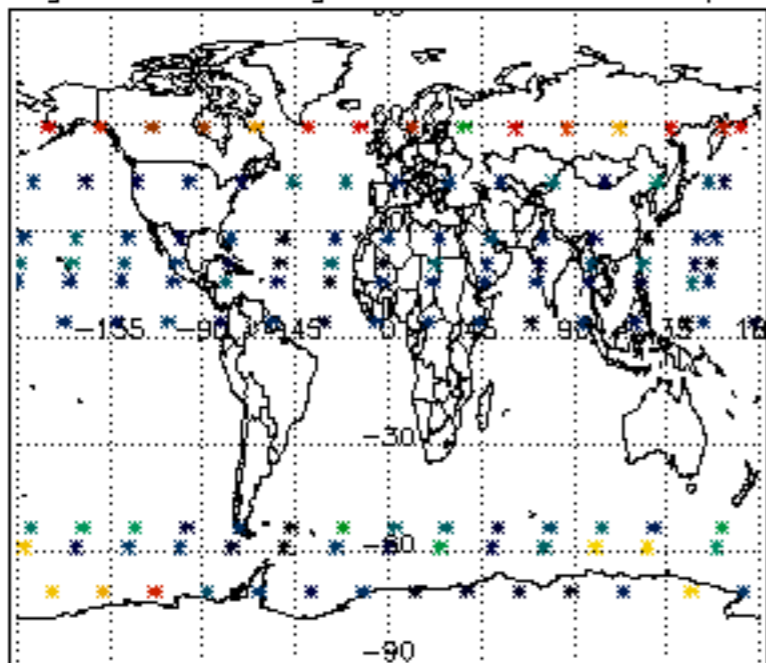
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

