

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	18APR2013 11:37:08
Data source version	GOMOS/6.01
Start time of products	14-10-2005 (14OCT2005 00:00:00)
Stop time of products	15-10-2005 (15OCT2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	241
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

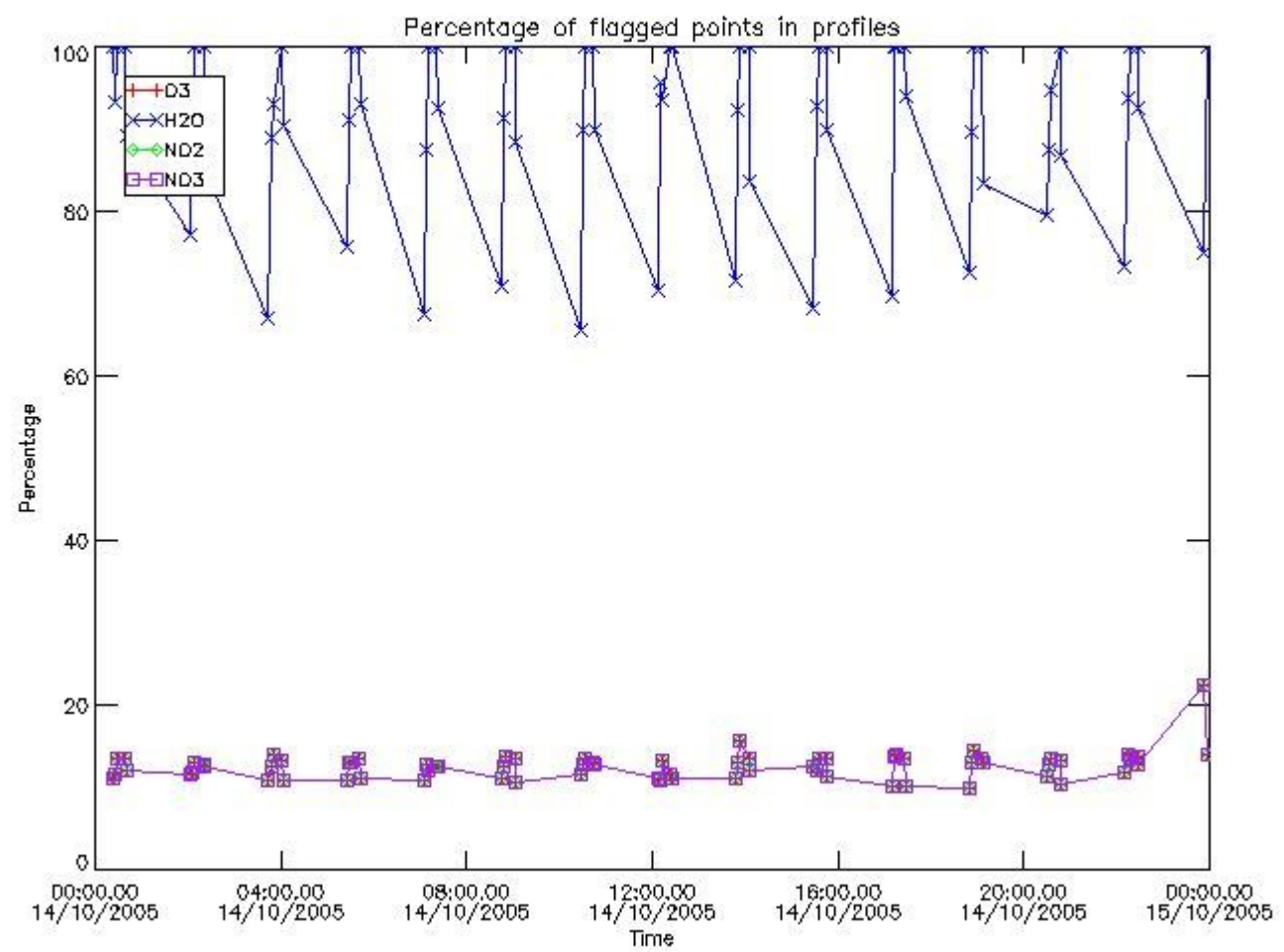
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20051014_000239_000000332041_00345_18936_7593.N1	14-OCT-2005 00:02:39	Bright	33.000	96	68Del Leo	2.5600	9300.0	66	18936	No
2	GOM_NL__2PRFIN20051014_002252_000000462041_00345_18936_7594.N1	14-OCT-2005 00:22:52	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	18936	No
3	GOM_NL__2PRFIN20051014_002601_000000452041_00345_18936_7595.N1	14-OCT-2005 00:26:01	Dark	44.500	46	Del Vel	1.9540	10600.	89	18936	No
4	GOM_NL__2PRFIN20051014_002833_000000382041_00346_18937_7579.N1	14-OCT-2005 00:28:33	Dark	38.000	29	Bet Car	1.6720	10200.	76	18937	No
5	GOM_NL__2PRFIN20051014_003934_000000382041_00346_18937_7580.N1	14-OCT-2005 00:39:34	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	18937	No
6	GOM_NL__2PRFIN20051014_004100_000000422041_00346_18937_7581.N1	14-OCT-2005 00:41:00	Dark	42.000	9	Alp Eri	0.45300	24000.	84	18937	No
7	GOM_NL__2PRFIN20051014_004603_000000442041_00346_18937_7582.N1	14-OCT-2005 00:46:03	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	18937	No
8	GOM_NL__2PRFIN20051014_005241_000000452041_00346_18937_7583.N1	14-OCT-2005 00:52:41	Straylight	45.000	52	16Bet Cet	2.0370	4500.0	90	18937	No
9	GOM_NL__2PRFIN20051014_010223_000000362041_00346_18937_7584.N1	14-OCT-2005 01:02:23	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	18937	No
10	GOM_NL__2PRFIN20051014_010621_000000362041_00346_18937_7585.N1	14-OCT-2005 01:06:21	Bright	36.000	58	21Alp And	2.0730	11000.	72	18937	No
11	GOM_NL__2PRFIN20051014_011455_000000372041_00346_18937_7586.N1	14-OCT-2005 01:14:55	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	18937	No
12	GOM_NL__2PRFIN20051014_011705_000000372041_00346_18937_7587.N1	14-OCT-2005 01:17:05	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	18937	No
13	GOM_NL__2PRFIN20051014_012323_000000352041_00346_18937_7588.N1	14-OCT-2005 01:23:23	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	18937	No
14	GOM_NL__2PRFIN20051014_012617_000000372041_00346_18937_7589.N1	14-OCT-2005 01:26:17	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	18937	No
15	GOM_NL__2PRFIN20051014_013136_000000382041_00346_18937_7590.N1	14-OCT-2005 01:31:36	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	18937	No
16	GOM_NL__2PRFIN20051014_013309_000000362041_00346_18937_7591.N1	14-OCT-2005 01:33:09	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	18937	No
17	GOM_NL__2PRFIN20051014_013631_000000342041_00346_18937_7592.N1	14-OCT-2005 01:36:31	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	18937	No
18	GOM_NL__2PRFIN20051014_014315_000000322041_00346_18937_7593.N1	14-OCT-2005 01:43:15	Bright	32.000	96	68Del Leo	2.5600	9300.0	64	18937	No
19	GOM_NL__2PRFIN20051014_020329_000000442041_00346_18937_7594.N1	14-OCT-2005 02:03:29	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	18937	No
20	GOM_NL__2PRFIN20051014_020637_000000442041_00346_18937_7595.N1	14-OCT-2005 02:06:37	Dark	43.500	46	Del Vel	1.9540	10600.	87	18937	No
21	GOM_NL__2PRFIN20051014_020909_000000392041_00347_18938_7579.N1	14-OCT-2005 02:09:09	Dark	39.000	29	Bet Car	1.6720	10200.	78	18938	No
22	GOM_NL__2PRFIN20051014_022010_000000402041_00347_18938_7580.N1	14-OCT-2005 02:20:10	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	18938	No
23	GOM_NL__2PRFIN20051014_022136_000000452041_00347_18938_7581.N1	14-OCT-2005 02:21:36	Dark	44.500	9	Alp Eri	0.45300	24000.	89	18938	No
24	GOM_NL__2PRFIN20051014_022640_000000442041_00347_18938_7582.N1	14-OCT-2005 02:26:40	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	18938	No
25	GOM_NL__2PRFIN20051014_023317_000000442041_00347_18938_7583.N1	14-OCT-2005 02:33:17	Straylight	44.000	52	16Bet Cet	2.0370	4500.0	88	18938	No
26	GOM_NL__2PRFIN20051014_024259_000000372041_00347_18938_7584.N1	14-OCT-2005 02:42:59	Bright	36.500	140	88Gam Peg	2.8340	26000.	73	18938	No
27	GOM_NL__2PRFIN20051014_024657_000000362041_00347_18938_7585.N1	14-OCT-2005 02:46:57	Bright	36.000	58	21Alp And	2.0730	11000.	72	18938	No
28	GOM_NL__2PRFIN20051014_025531_000000362041_00347_18938_7586.N1	14-OCT-2005 02:55:31	Bright	35.500	74	11Bet Cas	2.2680	6600.0	71	18938	No
29	GOM_NL__2PRFIN20051014_025742_000000362041_00347_18938_7587.N1	14-OCT-2005 02:57:42	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	18938	No
30	GOM_NL__2PRFIN20051014_030359_000000332041_00347_18938_7588.N1	14-OCT-2005 03:03:59	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	18938	No
31	GOM_NL__2PRFIN20051014_030653_000000372041_00347_18938_7589.N1	14-OCT-2005 03:06:53	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	18938	No
32	GOM_NL__2PRFIN20051014_031212_000000372041_00347_18938_7590.N1	14-OCT-2005 03:12:12	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	18938	No
33	GOM_NL__2PRFIN20051014_031345_000000372041_00347_18938_7591.N1	14-OCT-2005 03:13:45	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	18938	No
34	GOM_NL__2PRFIN20051014_031707_000000362041_00347_18938_7592.N1	14-OCT-2005 03:17:07	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	18938	No
35	GOM_NL__2PRFIN20051014_032351_000000342041_00347_18938_7593.N1	14-OCT-2005 03:23:51	Bright	33.500	96	68Del Leo	2.5600	9300.0	67	18938	No
36	GOM_NL__2PRFIN20051014_034405_000000482041_00347_18938_7594.N1	14-OCT-2005 03:44:05	Dark	47.500	65	Lam Vel	2.2040	4400.0	95	18938	No
37	GOM_NL__2PRFIN20051014_034714_000000412041_00347_18938_7595.N1	14-OCT-2005 03:47:14	Dark	41.000	46	Del Vel	1.9540	10600.	82	18938	No
38	GOM_NL__2PRFIN20051014_034945_000000372041_00348_18939_7579.N1	14-OCT-2005 03:49:45	Dark	36.500	29	Bet Car	1.6720	10200.	73	18939	No
39	GOM_NL__2PRFIN20051014_040046_000000392041_00348_18939_7580.N1	14-OCT-2005 04:00:46	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	18939	No
40	GOM_NL__2PRFIN20051014_040213_000000472041_00348_18939_7581.N1	14-OCT-2005 04:02:13	Dark	47.000	9	Alp Eri	0.45300	24000.	94	18939	No
41	GOM_NL__2PRFIN20051014_040716_000000422041_00348_18939_7582.N1	14-OCT-2005 04:07:16	Straylight	41.500	84	Alp Phe	2.3970	4500.0	83	18939	No
42	GOM_NL__2PRFIN20051014_041353_000000442041_00348_18939_7583.N1	14-OCT-2005 04:13:53	Straylight	44.000	52	16Bet Cet	2.0370	4500.0	88	18939	No

220	GOM_NL__2PRFIN20051014_214021_000000362041_00358_18949_7611.N1	14-OCT-2005 21:40:21	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	18949	No
221	GOM_NL__2PRFIN20051014_214344_000000342041_00358_18949_7612.N1	14-OCT-2005 21:43:44	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	18949	No
222	GOM_NL__2PRFIN20051014_215028_000000332041_00358_18949_7613.N1	14-OCT-2005 21:50:28	Bright	33.000	96	68Del Leo	2.5600	9300.0	66	18949	No
223	GOM_NL__2PRFIN20051014_221047_000000472041_00358_18949_7614.N1	14-OCT-2005 22:10:47	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	18949	No
224	GOM_NL__2PRFIN20051014_221355_000000402041_00359_18950_7615.N1	14-OCT-2005 22:13:55	Dark	40.000	46	Del Vel	1.9540	10600.	80	18950	No
225	GOM_NL__2PRFIN20051014_221623_000000382041_00359_18950_7619.N1	14-OCT-2005 22:16:23	Dark	38.000	29	Bet Car	1.6720	10200.	76	18950	No
226	GOM_NL__2PRFIN20051014_222725_000000372041_00359_18950_7620.N1	14-OCT-2005 22:27:25	Dark	37.000	143	Alp Hyi	2.8570	7200.0	74	18950	No
227	GOM_NL__2PRFIN20051014_222851_000000402041_00359_18950_7621.N1	14-OCT-2005 22:28:51	Dark	40.000	9	Alp Eri	0.45300	24000.	80	18950	No
228	GOM_NL__2PRFIN20051014_223353_000000412041_00359_18950_7622.N1	14-OCT-2005 22:33:53	Straylight	40.500	84	Alp Phe	2.3970	4500.0	81	18950	No
229	GOM_NL__2PRFIN20051014_224030_000000422041_00359_18950_7623.N1	14-OCT-2005 22:40:30	Straylight	42.000	52	16Bet Cet	2.0370	4500.0	84	18950	No
230	GOM_NL__2PRFIN20051014_225010_000000352041_00359_18950_7624.N1	14-OCT-2005 22:50:10	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	18950	No
231	GOM_NL__2PRFIN20051014_225408_000000352041_00359_18950_7625.N1	14-OCT-2005 22:54:08	Bright	35.000	58	21Alp And	2.0730	11000.	70	18950	No
232	GOM_NL__2PRFIN20051014_230241_000000362041_00359_18950_7626.N1	14-OCT-2005 23:02:41	Bright	35.500	74	11Bet Cas	2.2680	6600.0	71	18950	No
233	GOM_NL__2PRFIN20051014_230457_000000362041_00359_18950_7627.N1	14-OCT-2005 23:04:57	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	18950	No
234	GOM_NL__2PRFIN20051014_231110_000000372041_00359_18950_7628.N1	14-OCT-2005 23:11:10	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	18950	No
235	GOM_NL__2PRFIN20051014_231408_000000362041_00359_18950_7629.N1	14-OCT-2005 23:14:08	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	18950	No
236	GOM_NL__2PRFIN20051014_231924_000000342041_00359_18950_7630.N1	14-OCT-2005 23:19:24	Bright	34.000	36	50Alp UMa	1.8000	6300.0	68	18950	No
237	GOM_NL__2PRFIN20051014_232057_000000362041_00359_18950_7631.N1	14-OCT-2005 23:20:57	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	18950	No
238	GOM_NL__2PRFIN20051014_232420_000000372041_00359_18950_7632.N1	14-OCT-2005 23:24:20	Bright	36.500	174	52Psi UMa	3.0040	4400.0	73	18950	No
239	GOM_NL__2PRFIN20051014_233104_000000332041_00359_18950_7633.N1	14-OCT-2005 23:31:04	Bright	33.000	96	68Del Leo	2.5600	9300.0	66	18950	No
240	GOM_NL__2PRFIN20051014_235124_000000552041_00359_18950_7634.N1	14-OCT-2005 23:51:24	Dark	54.500	65	Lam Vel	2.2040	4400.0	109	18950	No
241	GOM_NL__2PRFIN20051014_235659_000000372041_00360_18951_7619.N1	14-OCT-2005 23:56:59	Dark	36.500	29	Bet Car	1.6720	10200.	73	18951	No

3. Quality information per product

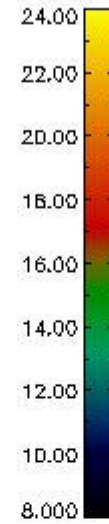
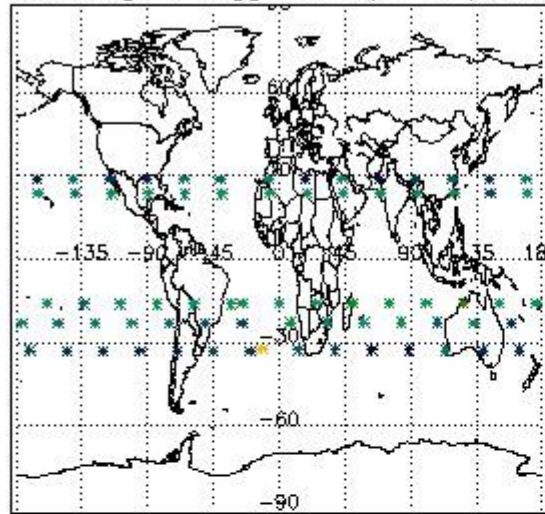
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

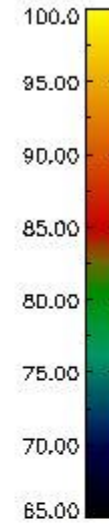
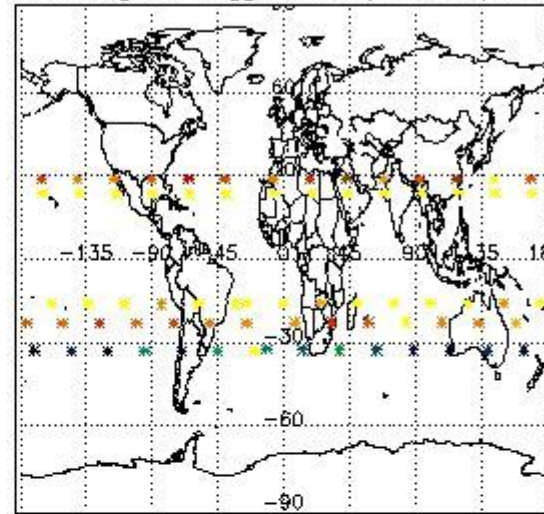


3.2 Plot quality information per product (world map)

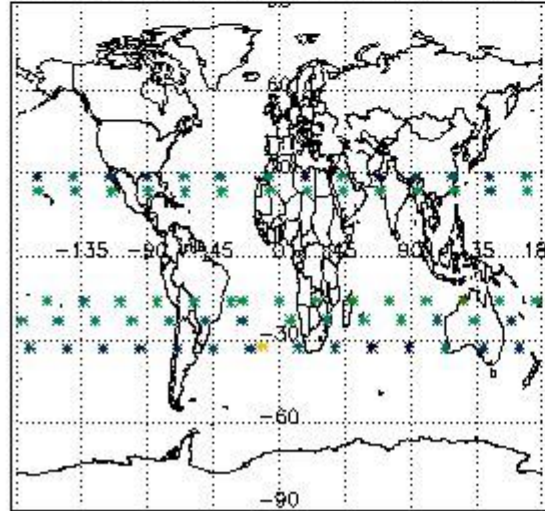
Percentage of flagged data per O3 profile



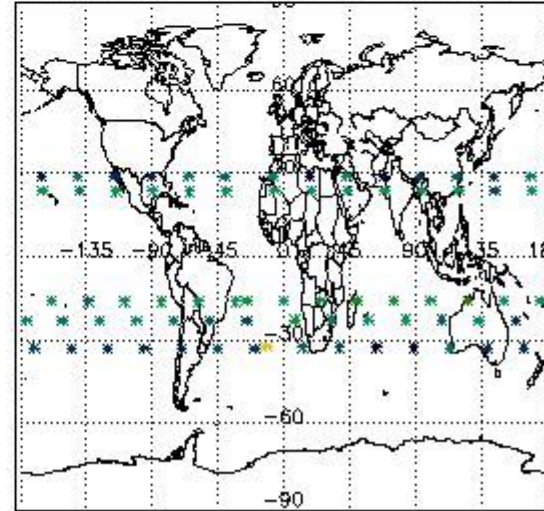
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

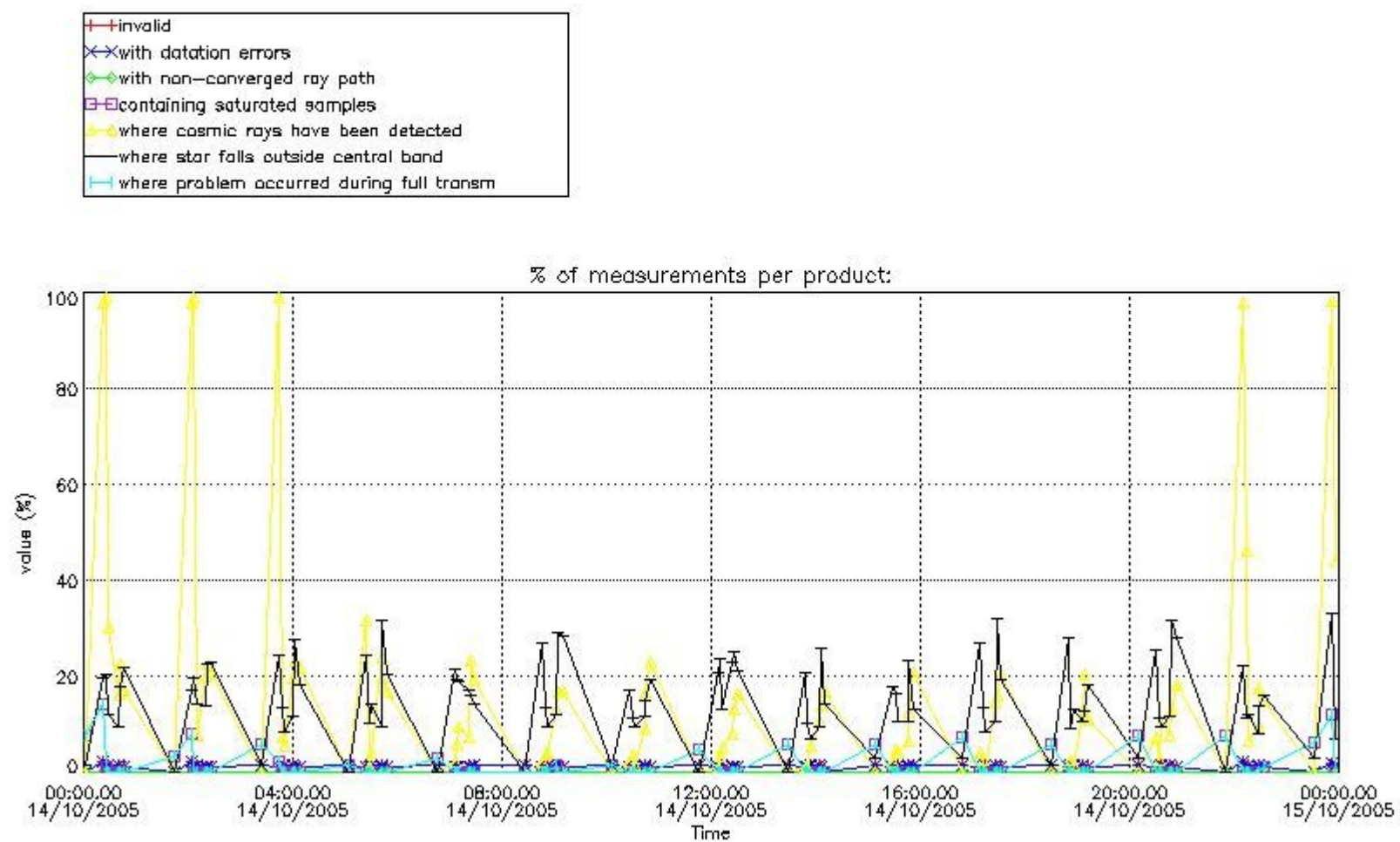


4. Level 1 quality information per product

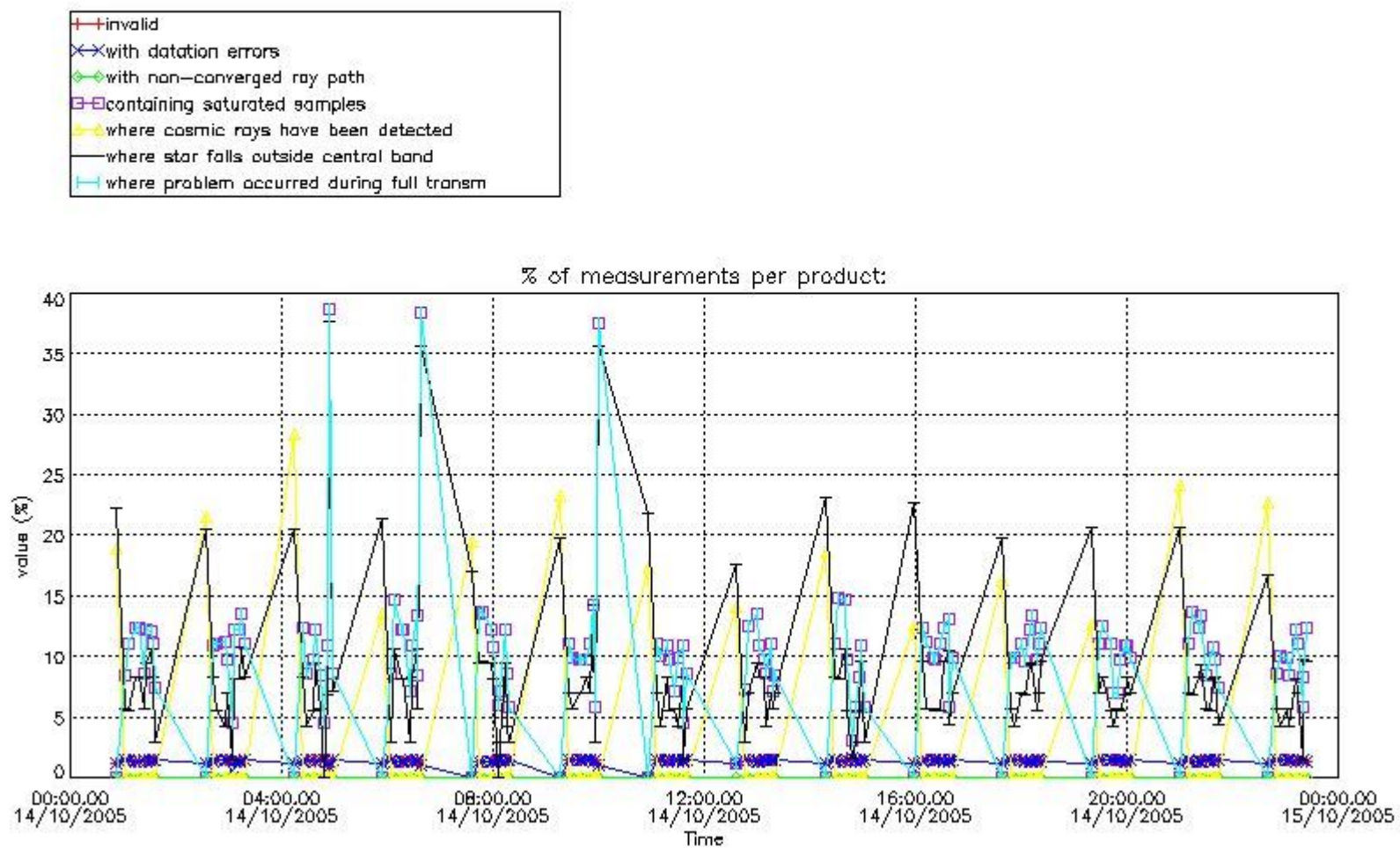
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

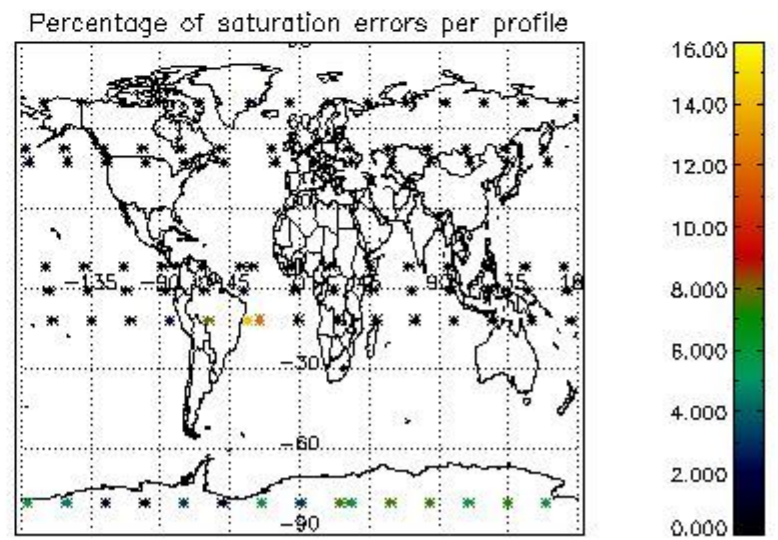
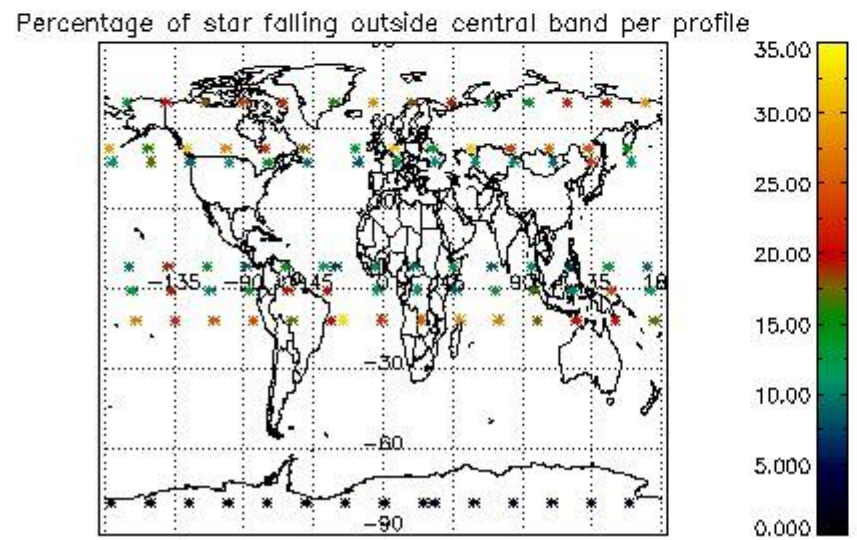
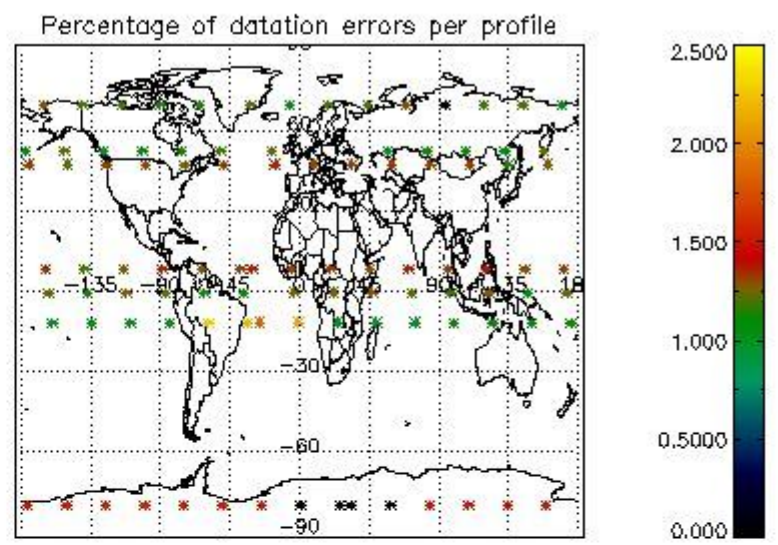
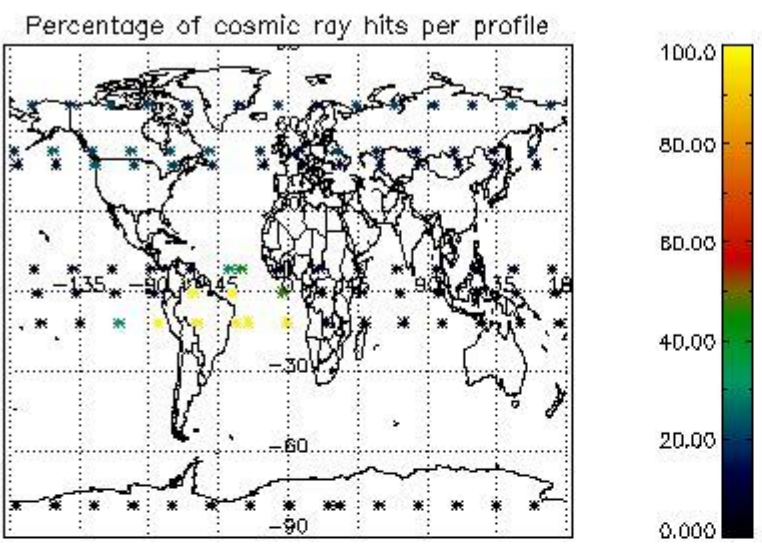


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

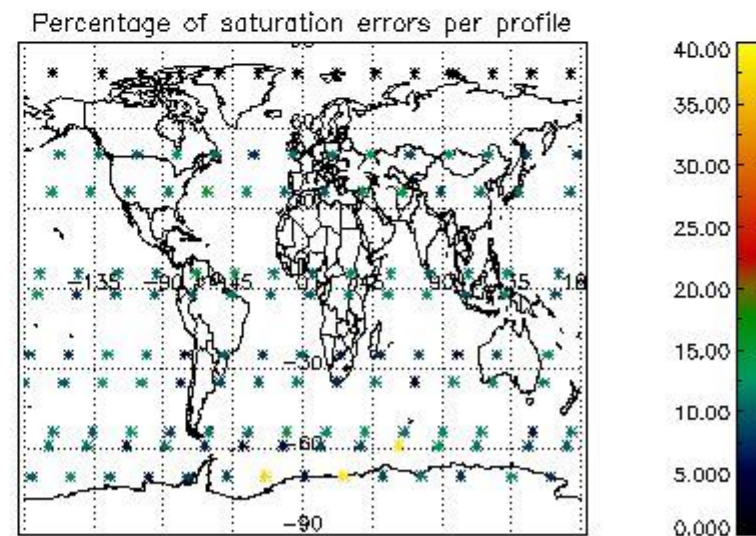
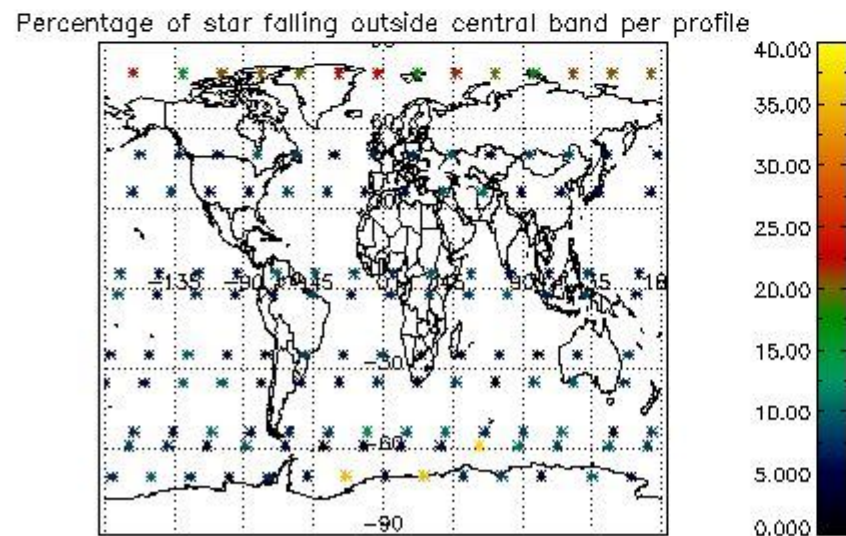
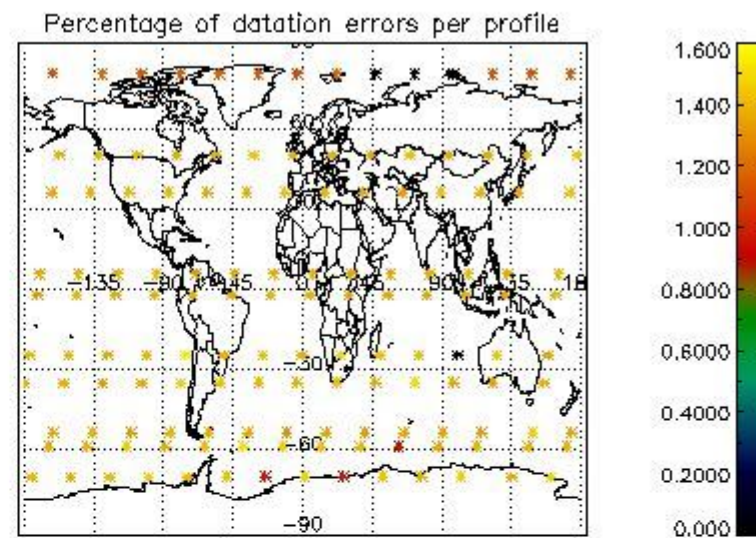
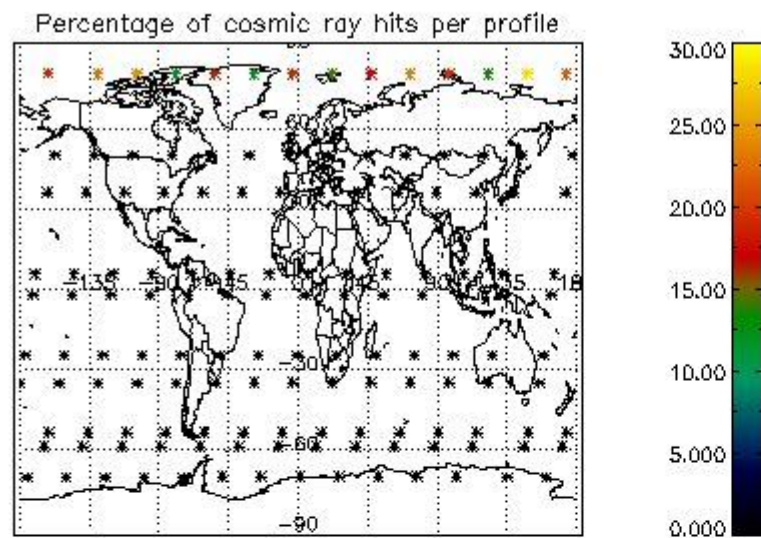


4.2 Plot quality information per product coming from level 1b processing (world map)

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

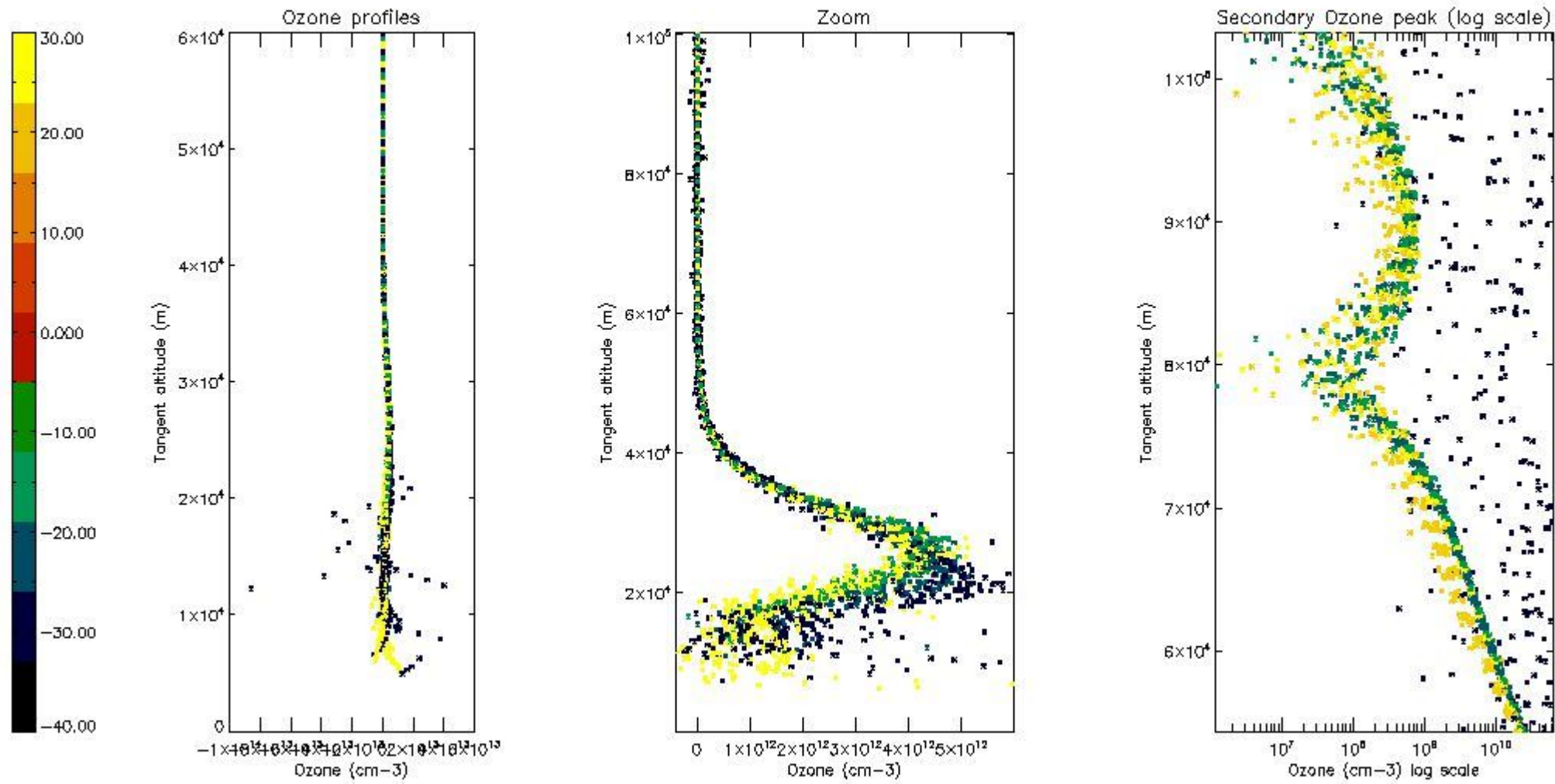
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	19

STD < 10	15
STD < 5	9

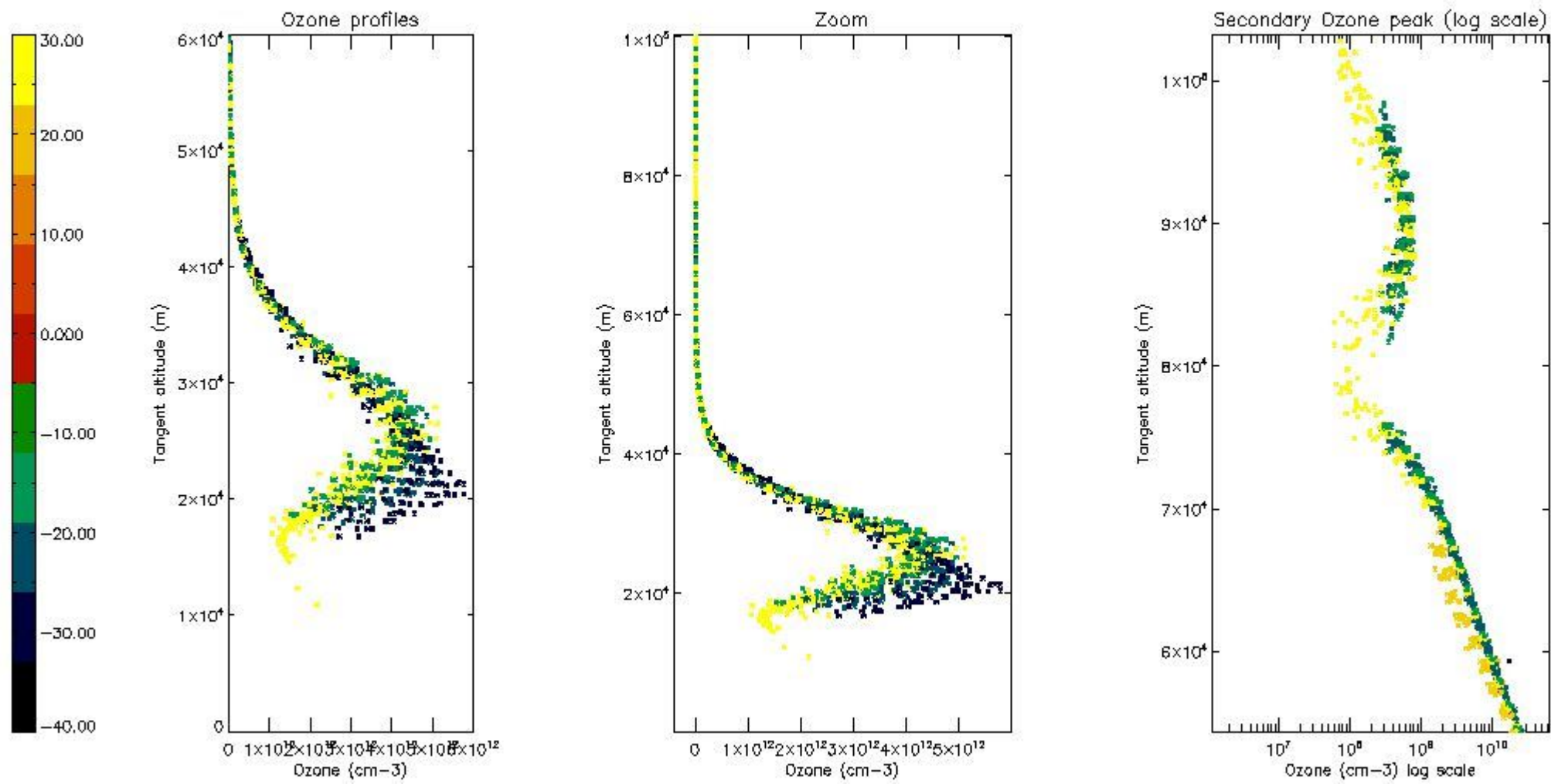
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



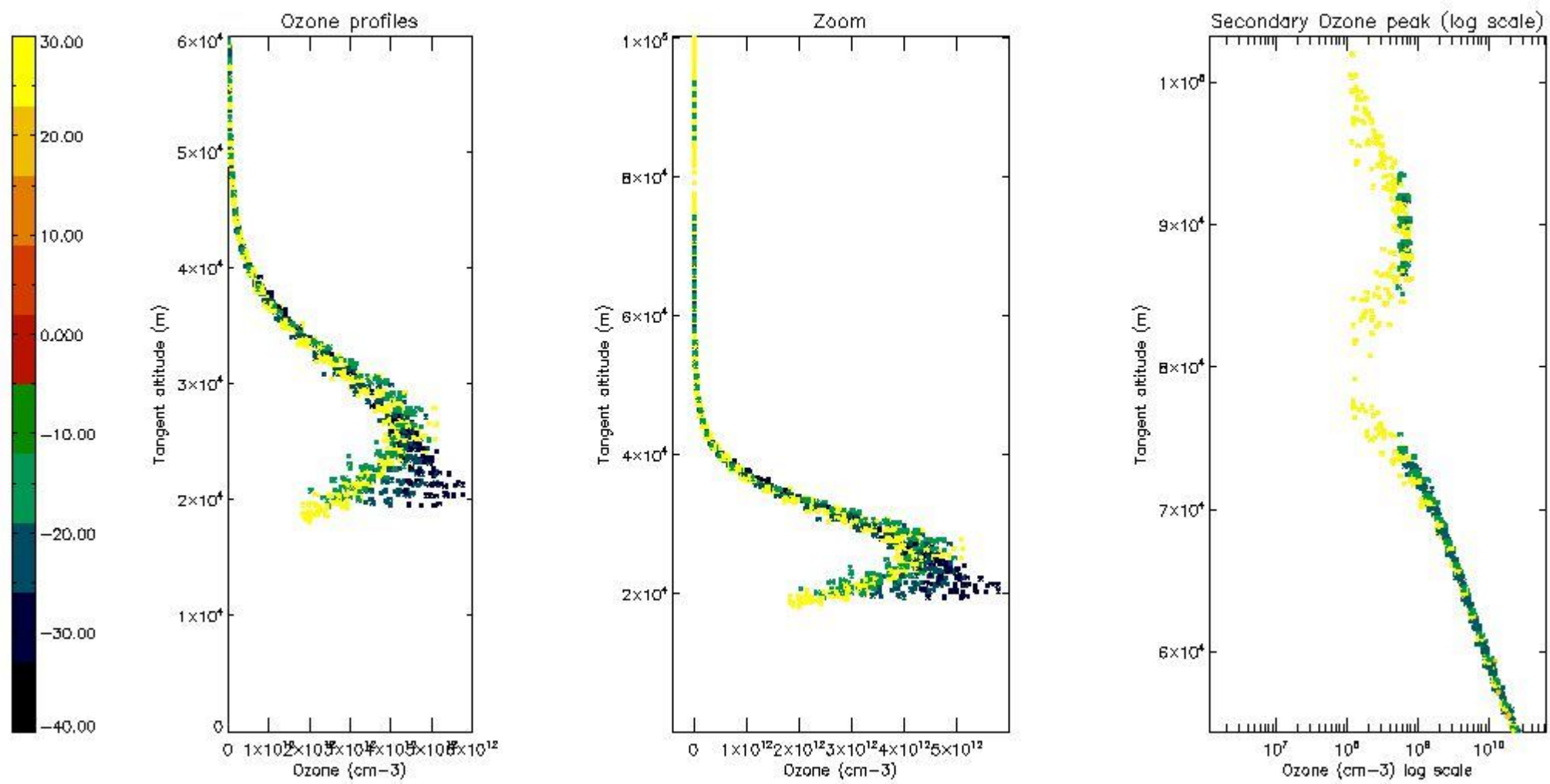
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



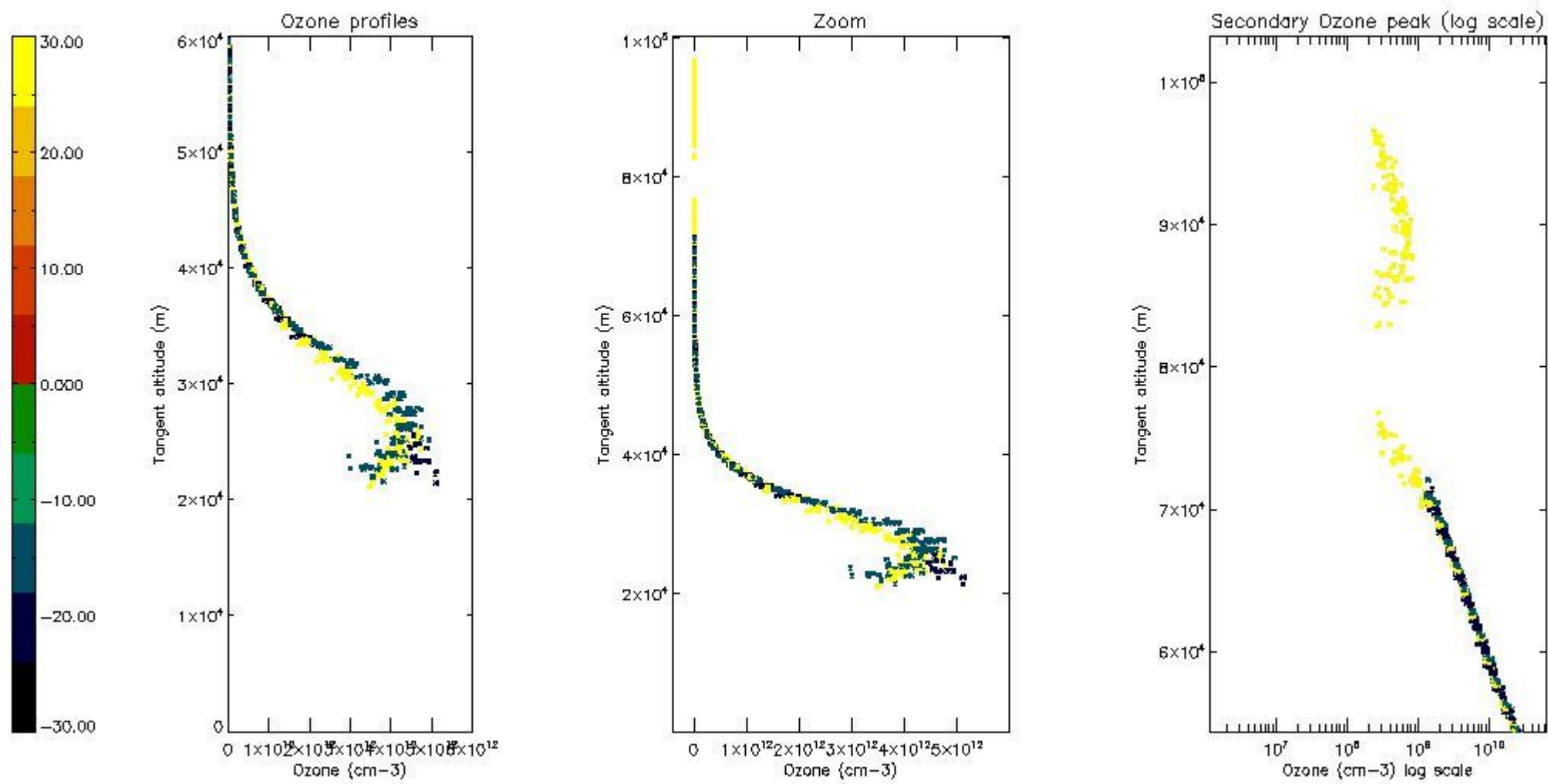
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



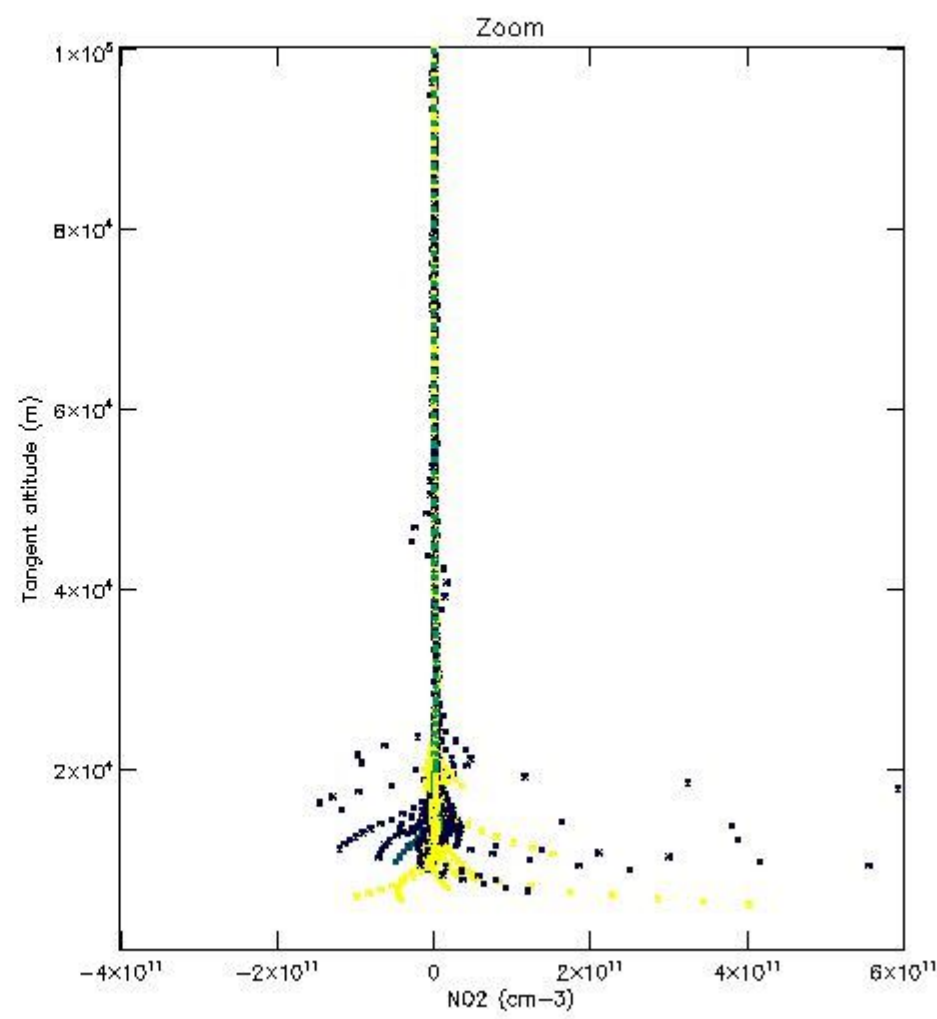
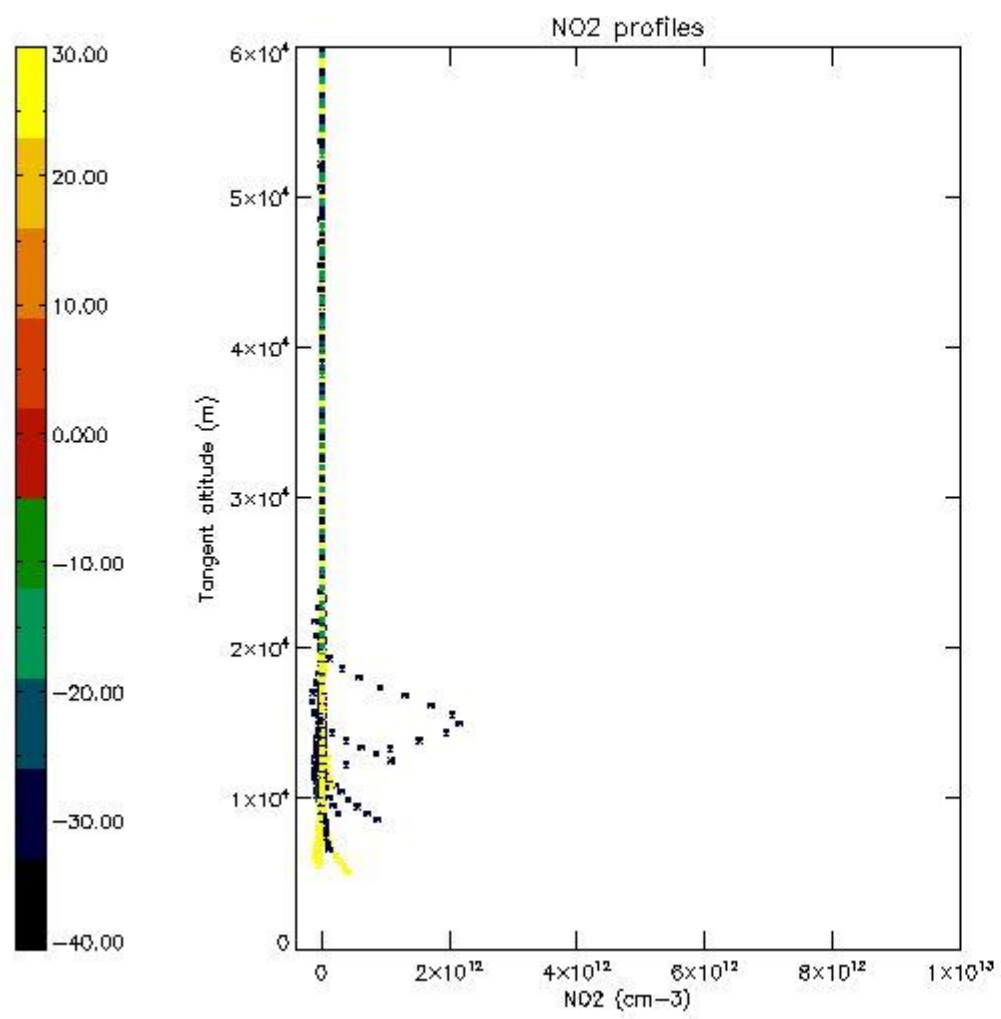
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



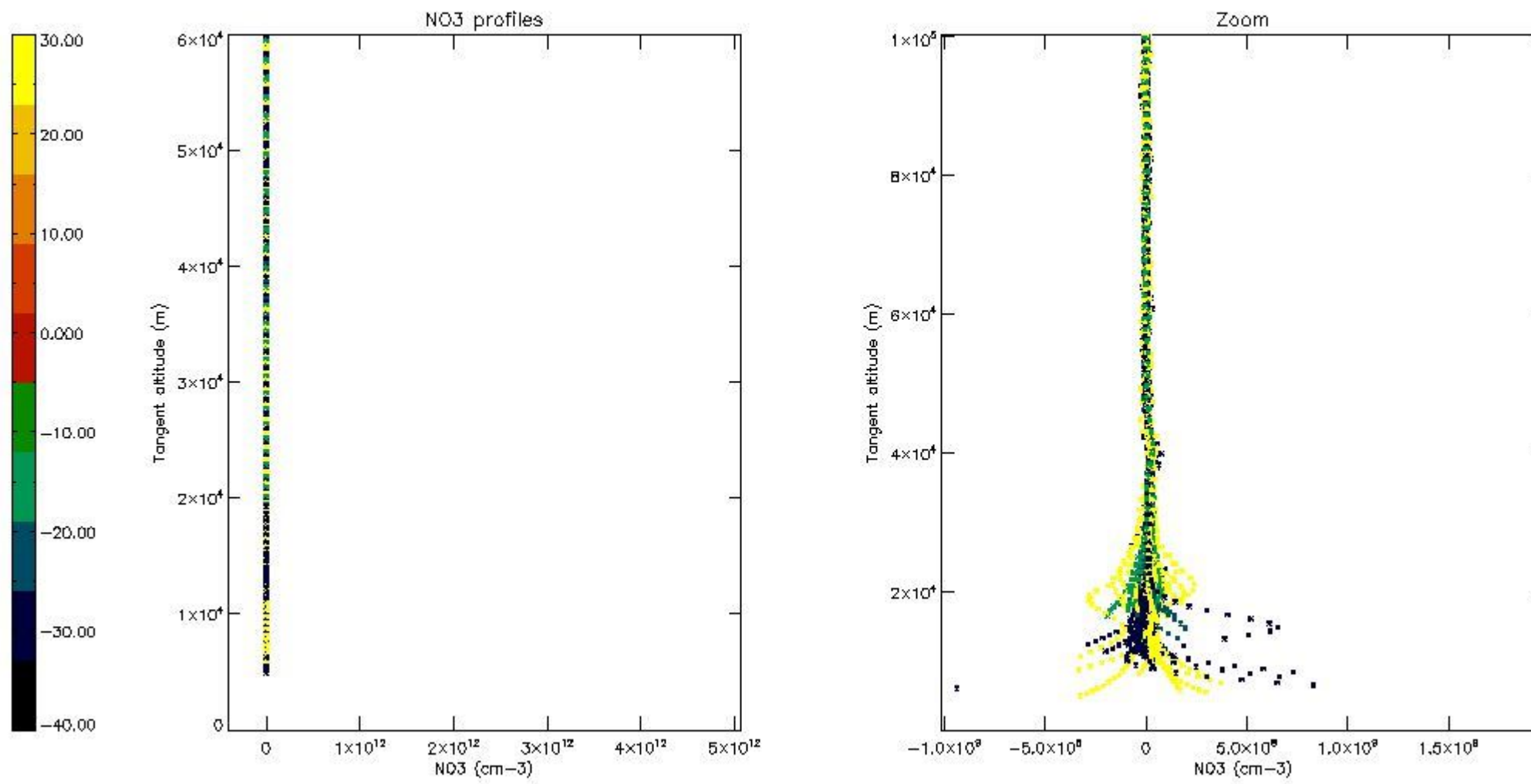
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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	14-OCT-2005 00:02:39
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-OCT-2005 00:02:39
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-OCT-2005 00:02:39

GOMOS Level 2 Daily Report

SUMMARY

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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	18APR2013 11:37:08
Data source version	GOMOS/6.01
Start time of products	14-10-2005 (14OCT2005 00:00:00)
Stop time of products	15-10-2005 (15OCT2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	241
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

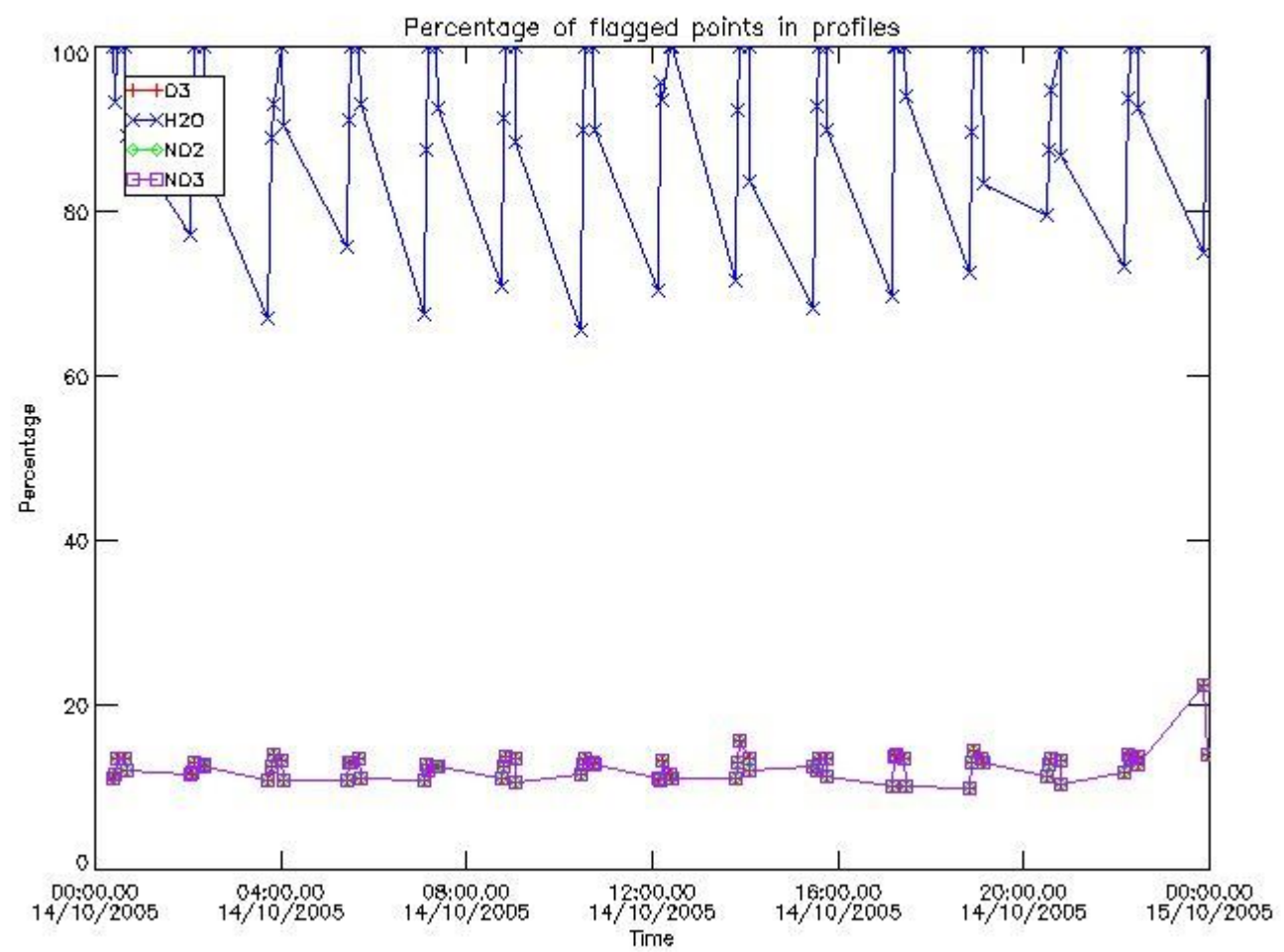
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20051014_000239_000000332041_00345_18936_7593.N1	14-OCT-2005 00:02:39	Bright	33.000	96	68Del Leo	2.5600	9300.0	66	18936	No
2	GOM_NL__2PRFIN20051014_002252_000000462041_00345_18936_7594.N1	14-OCT-2005 00:22:52	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	18936	No
3	GOM_NL__2PRFIN20051014_002601_000000452041_00345_18936_7595.N1	14-OCT-2005 00:26:01	Dark	44.500	46	Del Vel	1.9540	10600.	89	18936	No
4	GOM_NL__2PRFIN20051014_002833_000000382041_00346_18937_7579.N1	14-OCT-2005 00:28:33	Dark	38.000	29	Bet Car	1.6720	10200.	76	18937	No
5	GOM_NL__2PRFIN20051014_003934_000000382041_00346_18937_7580.N1	14-OCT-2005 00:39:34	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	18937	No
6	GOM_NL__2PRFIN20051014_004100_000000422041_00346_18937_7581.N1	14-OCT-2005 00:41:00	Dark	42.000	9	Alp Eri	0.45300	24000.	84	18937	No
7	GOM_NL__2PRFIN20051014_004603_000000442041_00346_18937_7582.N1	14-OCT-2005 00:46:03	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	18937	No
8	GOM_NL__2PRFIN20051014_005241_000000452041_00346_18937_7583.N1	14-OCT-2005 00:52:41	Straylight	45.000	52	16Bet Cet	2.0370	4500.0	90	18937	No
9	GOM_NL__2PRFIN20051014_010223_000000362041_00346_18937_7584.N1	14-OCT-2005 01:02:23	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	18937	No
10	GOM_NL__2PRFIN20051014_010621_000000362041_00346_18937_7585.N1	14-OCT-2005 01:06:21	Bright	36.000	58	21Alp And	2.0730	11000.	72	18937	No
11	GOM_NL__2PRFIN20051014_011455_000000372041_00346_18937_7586.N1	14-OCT-2005 01:14:55	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	18937	No
12	GOM_NL__2PRFIN20051014_011705_000000372041_00346_18937_7587.N1	14-OCT-2005 01:17:05	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	18937	No
13	GOM_NL__2PRFIN20051014_012323_000000352041_00346_18937_7588.N1	14-OCT-2005 01:23:23	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	18937	No
14	GOM_NL__2PRFIN20051014_012617_000000372041_00346_18937_7589.N1	14-OCT-2005 01:26:17	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	18937	No
15	GOM_NL__2PRFIN20051014_013136_000000382041_00346_18937_7590.N1	14-OCT-2005 01:31:36	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	18937	No
16	GOM_NL__2PRFIN20051014_013309_000000362041_00346_18937_7591.N1	14-OCT-2005 01:33:09	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	18937	No
17	GOM_NL__2PRFIN20051014_013631_000000342041_00346_18937_7592.N1	14-OCT-2005 01:36:31	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	18937	No
18	GOM_NL__2PRFIN20051014_014315_000000322041_00346_18937_7593.N1	14-OCT-2005 01:43:15	Bright	32.000	96	68Del Leo	2.5600	9300.0	64	18937	No
19	GOM_NL__2PRFIN20051014_020329_000000442041_00346_18937_7594.N1	14-OCT-2005 02:03:29	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	18937	No
20	GOM_NL__2PRFIN20051014_020637_000000442041_00346_18937_7595.N1	14-OCT-2005 02:06:37	Dark	43.500	46	Del Vel	1.9540	10600.	87	18937	No
21	GOM_NL__2PRFIN20051014_020909_000000392041_00347_18938_7579.N1	14-OCT-2005 02:09:09	Dark	39.000	29	Bet Car	1.6720	10200.	78	18938	No
22	GOM_NL__2PRFIN20051014_022010_000000402041_00347_18938_7580.N1	14-OCT-2005 02:20:10	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	18938	No
23	GOM_NL__2PRFIN20051014_022136_000000452041_00347_18938_7581.N1	14-OCT-2005 02:21:36	Dark	44.500	9	Alp Eri	0.45300	24000.	89	18938	No
24	GOM_NL__2PRFIN20051014_022640_000000442041_00347_18938_7582.N1	14-OCT-2005 02:26:40	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	18938	No
25	GOM_NL__2PRFIN20051014_023317_000000442041_00347_18938_7583.N1	14-OCT-2005 02:33:17	Straylight	44.000	52	16Bet Cet	2.0370	4500.0	88	18938	No
26	GOM_NL__2PRFIN20051014_024259_000000372041_00347_18938_7584.N1	14-OCT-2005 02:42:59	Bright	36.500	140	88Gam Peg	2.8340	26000.	73	18938	No
27	GOM_NL__2PRFIN20051014_024657_000000362041_00347_18938_7585.N1	14-OCT-2005 02:46:57	Bright	36.000	58	21Alp And	2.0730	11000.	72	18938	No
28	GOM_NL__2PRFIN20051014_025531_000000362041_00347_18938_7586.N1	14-OCT-2005 02:55:31	Bright	35.500	74	11Bet Cas	2.2680	6600.0	71	18938	No
29	GOM_NL__2PRFIN20051014_025742_000000362041_00347_18938_7587.N1	14-OCT-2005 02:57:42	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	18938	No
30	GOM_NL__2PRFIN20051014_030359_000000332041_00347_18938_7588.N1	14-OCT-2005 03:03:59	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	18938	No
31	GOM_NL__2PRFIN20051014_030653_000000372041_00347_18938_7589.N1	14-OCT-2005 03:06:53	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	18938	No
32	GOM_NL__2PRFIN20051014_031212_000000372041_00347_18938_7590.N1	14-OCT-2005 03:12:12	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	18938	No
33	GOM_NL__2PRFIN20051014_031345_000000372041_00347_18938_7591.N1	14-OCT-2005 03:13:45	Bright	37.000	82	48Bet UMa	2.3650	10600.	74	18938	No
34	GOM_NL__2PRFIN20051014_031707_000000362041_00347_18938_7592.N1	14-OCT-2005 03:17:07	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	18938	No
35	GOM_NL__2PRFIN20051014_032351_000000342041_00347_18938_7593.N1	14-OCT-2005 03:23:51	Bright	33.500	96	68Del Leo	2.5600	9300.0	67	18938	No
36	GOM_NL__2PRFIN20051014_034405_000000482041_00347_18938_7594.N1	14-OCT-2005 03:44:05	Dark	47.500	65	Lam Vel	2.2040	4400.0	95	18938	No
37	GOM_NL__2PRFIN20051014_034714_000000412041_00347_18938_7595.N1	14-OCT-2005 03:47:14	Dark	41.000	46	Del Vel	1.9540	10600.	82	18938	No
38	GOM_NL__2PRFIN20051014_034945_000000372041_00348_18939_7579.N1	14-OCT-2005 03:49:45	Dark	36.500	29	Bet Car	1.6720	10200.	73	18939	No
39	GOM_NL__2PRFIN20051014_040046_000000392041_00348_18939_7580.N1	14-OCT-2005 04:00:46	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	18939	No
40	GOM_NL__2PRFIN20051014_040213_000000472041_00348_18939_7581.N1	14-OCT-2005 04:02:13	Dark	47.000	9	Alp Eri	0.45300	24000.	94	18939	No
41	GOM_NL__2PRFIN20051014_040716_000000422041_00348_18939_7582.N1	14-OCT-2005 04:07:16	Straylight	41.500	84	Alp Phe	2.3970	4500.0	83	18939	No
42	GOM_NL__2PRFIN20051014_041353_000000442041_00348_18939_7583.N1	14-OCT-2005 04:13:53	Straylight	44.000	52	16Bet Cet	2.0370	4500.0	88	18939	No

220	GOM_NL__2PRFIN20051014_214021_000000362041_00358_18949_7611.N1	14-OCT-2005 21:40:21	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	18949	No
221	GOM_NL__2PRFIN20051014_214344_000000342041_00358_18949_7612.N1	14-OCT-2005 21:43:44	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	18949	No
222	GOM_NL__2PRFIN20051014_215028_000000332041_00358_18949_7613.N1	14-OCT-2005 21:50:28	Bright	33.000	96	68Del Leo	2.5600	9300.0	66	18949	No
223	GOM_NL__2PRFIN20051014_221047_000000472041_00358_18949_7614.N1	14-OCT-2005 22:10:47	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	18949	No
224	GOM_NL__2PRFIN20051014_221355_000000402041_00359_18950_7615.N1	14-OCT-2005 22:13:55	Dark	40.000	46	Del Vel	1.9540	10600.	80	18950	No
225	GOM_NL__2PRFIN20051014_221623_000000382041_00359_18950_7619.N1	14-OCT-2005 22:16:23	Dark	38.000	29	Bet Car	1.6720	10200.	76	18950	No
226	GOM_NL__2PRFIN20051014_222725_000000372041_00359_18950_7620.N1	14-OCT-2005 22:27:25	Dark	37.000	143	Alp Hyi	2.8570	7200.0	74	18950	No
227	GOM_NL__2PRFIN20051014_222851_000000402041_00359_18950_7621.N1	14-OCT-2005 22:28:51	Dark	40.000	9	Alp Eri	0.45300	24000.	80	18950	No
228	GOM_NL__2PRFIN20051014_223353_000000412041_00359_18950_7622.N1	14-OCT-2005 22:33:53	Straylight	40.500	84	Alp Phe	2.3970	4500.0	81	18950	No
229	GOM_NL__2PRFIN20051014_224030_000000422041_00359_18950_7623.N1	14-OCT-2005 22:40:30	Straylight	42.000	52	16Bet Cet	2.0370	4500.0	84	18950	No
230	GOM_NL__2PRFIN20051014_225010_000000352041_00359_18950_7624.N1	14-OCT-2005 22:50:10	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	18950	No
231	GOM_NL__2PRFIN20051014_225408_000000352041_00359_18950_7625.N1	14-OCT-2005 22:54:08	Bright	35.000	58	21Alp And	2.0730	11000.	70	18950	No
232	GOM_NL__2PRFIN20051014_230241_000000362041_00359_18950_7626.N1	14-OCT-2005 23:02:41	Bright	35.500	74	11Bet Cas	2.2680	6600.0	71	18950	No
233	GOM_NL__2PRFIN20051014_230457_000000362041_00359_18950_7627.N1	14-OCT-2005 23:04:57	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	18950	No
234	GOM_NL__2PRFIN20051014_231110_000000372041_00359_18950_7628.N1	14-OCT-2005 23:11:10	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	18950	No
235	GOM_NL__2PRFIN20051014_231408_000000362041_00359_18950_7629.N1	14-OCT-2005 23:14:08	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	18950	No
236	GOM_NL__2PRFIN20051014_231924_000000342041_00359_18950_7630.N1	14-OCT-2005 23:19:24	Bright	34.000	36	50Alp UMa	1.8000	6300.0	68	18950	No
237	GOM_NL__2PRFIN20051014_232057_000000362041_00359_18950_7631.N1	14-OCT-2005 23:20:57	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	18950	No
238	GOM_NL__2PRFIN20051014_232420_000000372041_00359_18950_7632.N1	14-OCT-2005 23:24:20	Bright	36.500	174	52Psi UMa	3.0040	4400.0	73	18950	No
239	GOM_NL__2PRFIN20051014_233104_000000332041_00359_18950_7633.N1	14-OCT-2005 23:31:04	Bright	33.000	96	68Del Leo	2.5600	9300.0	66	18950	No
240	GOM_NL__2PRFIN20051014_235124_000000552041_00359_18950_7634.N1	14-OCT-2005 23:51:24	Dark	54.500	65	Lam Vel	2.2040	4400.0	109	18950	No
241	GOM_NL__2PRFIN20051014_235659_000000372041_00360_18951_7619.N1	14-OCT-2005 23:56:59	Dark	36.500	29	Bet Car	1.6720	10200.	73	18951	No

3. Quality information per product

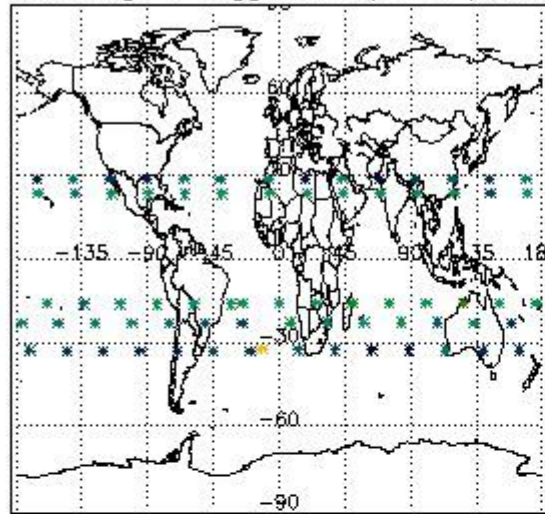
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

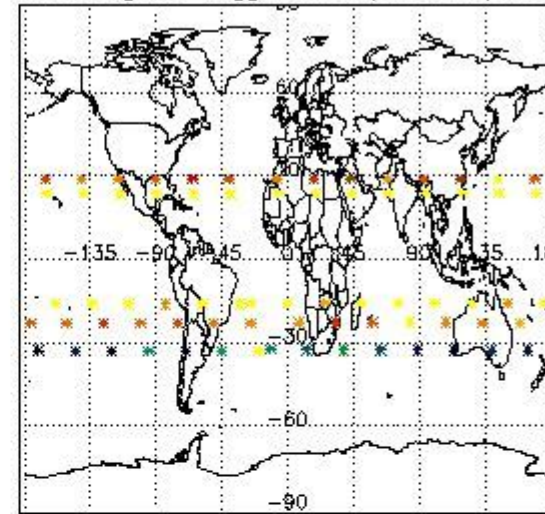


3.2 Plot quality information per product (world map)

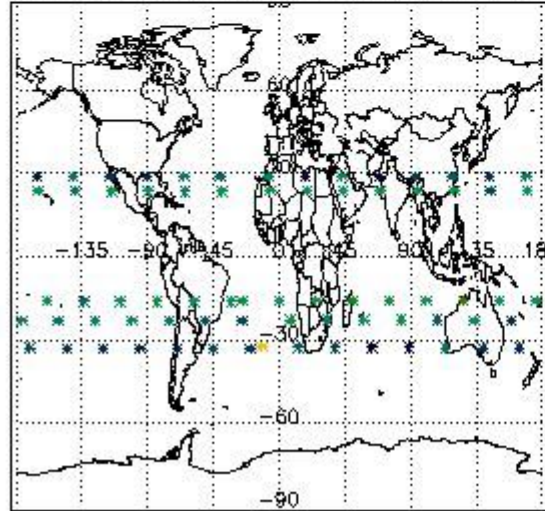
Percentage of flagged data per O3 profile



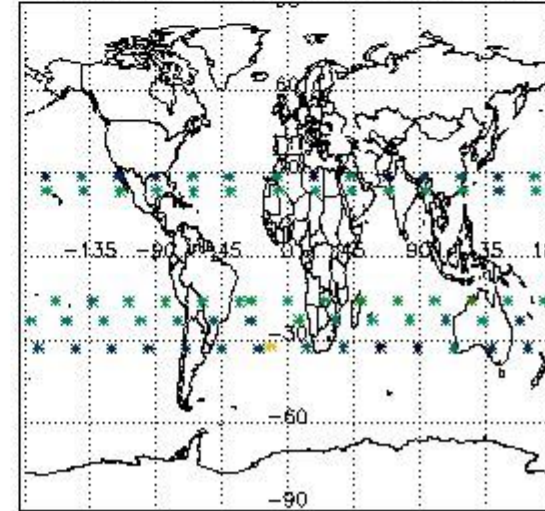
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

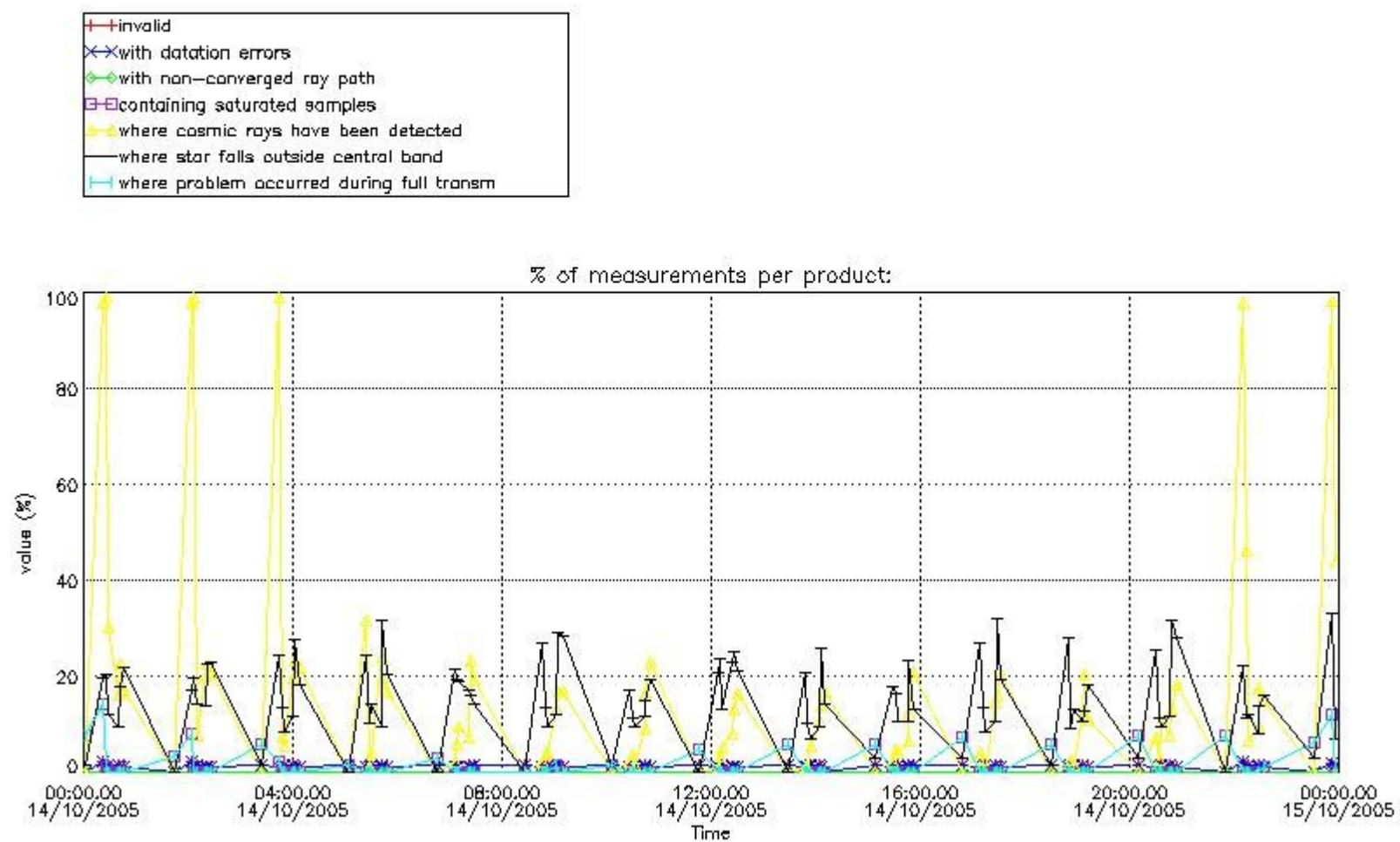


4. Level 1 quality information per product

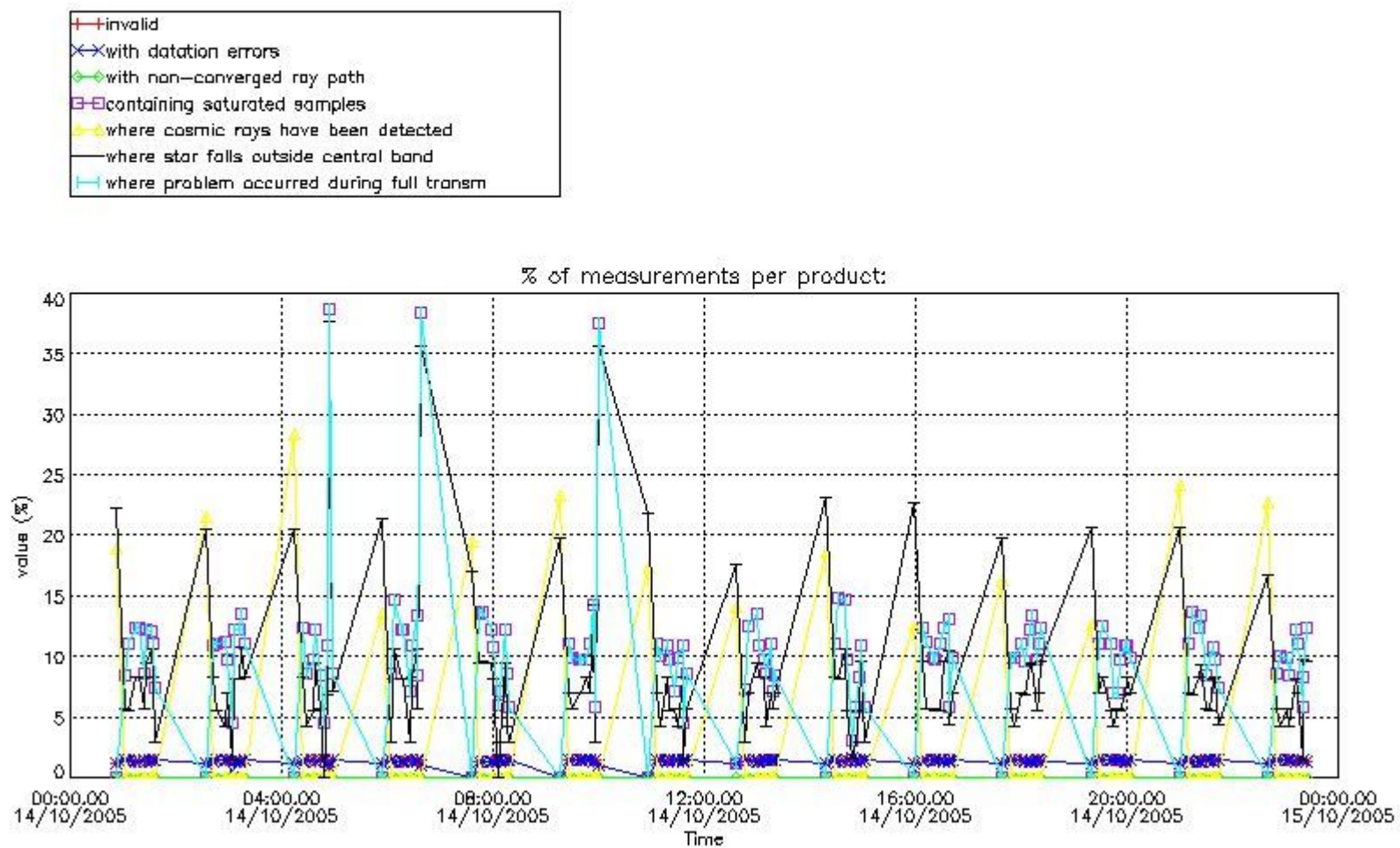
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



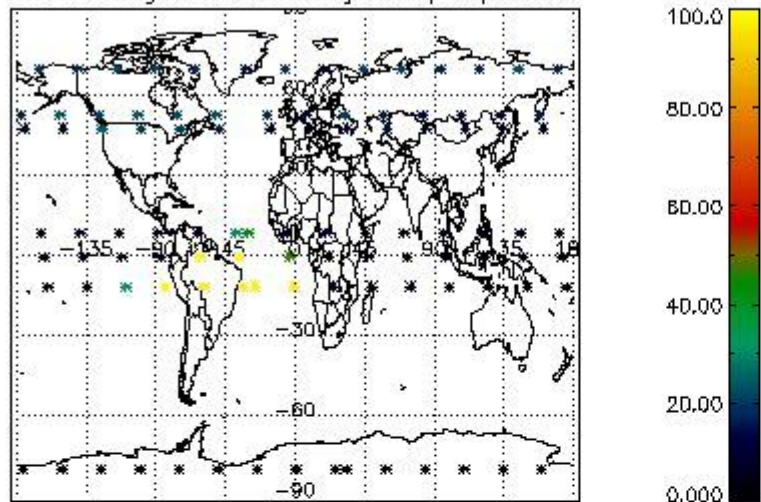
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



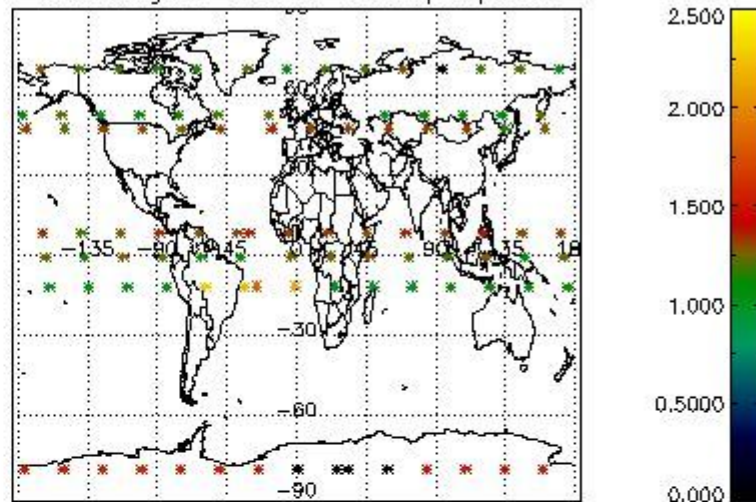
4.2 Plot quality information per product coming from level 1b processing (world map)

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

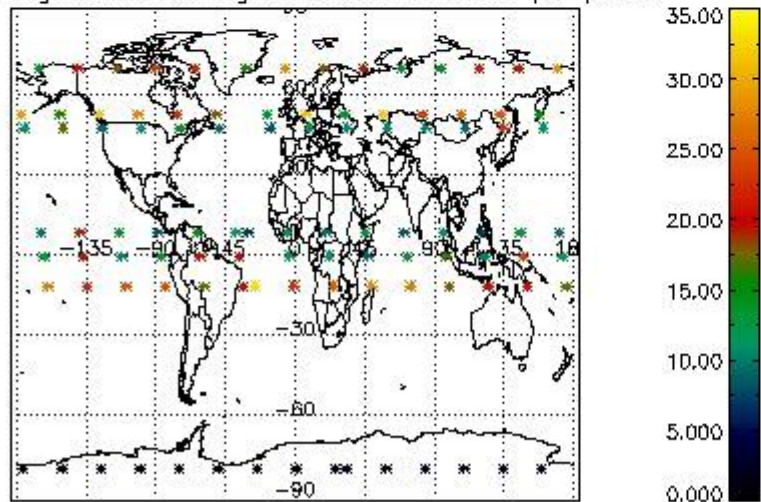
Percentage of cosmic ray hits per profile



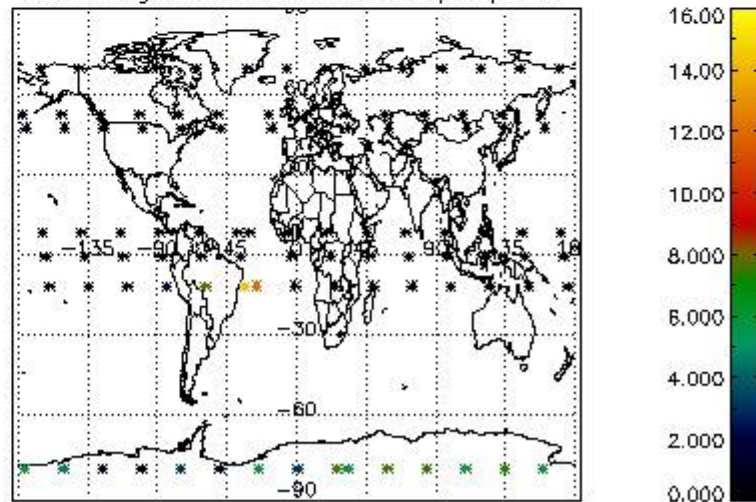
Percentage of datation errors per profile



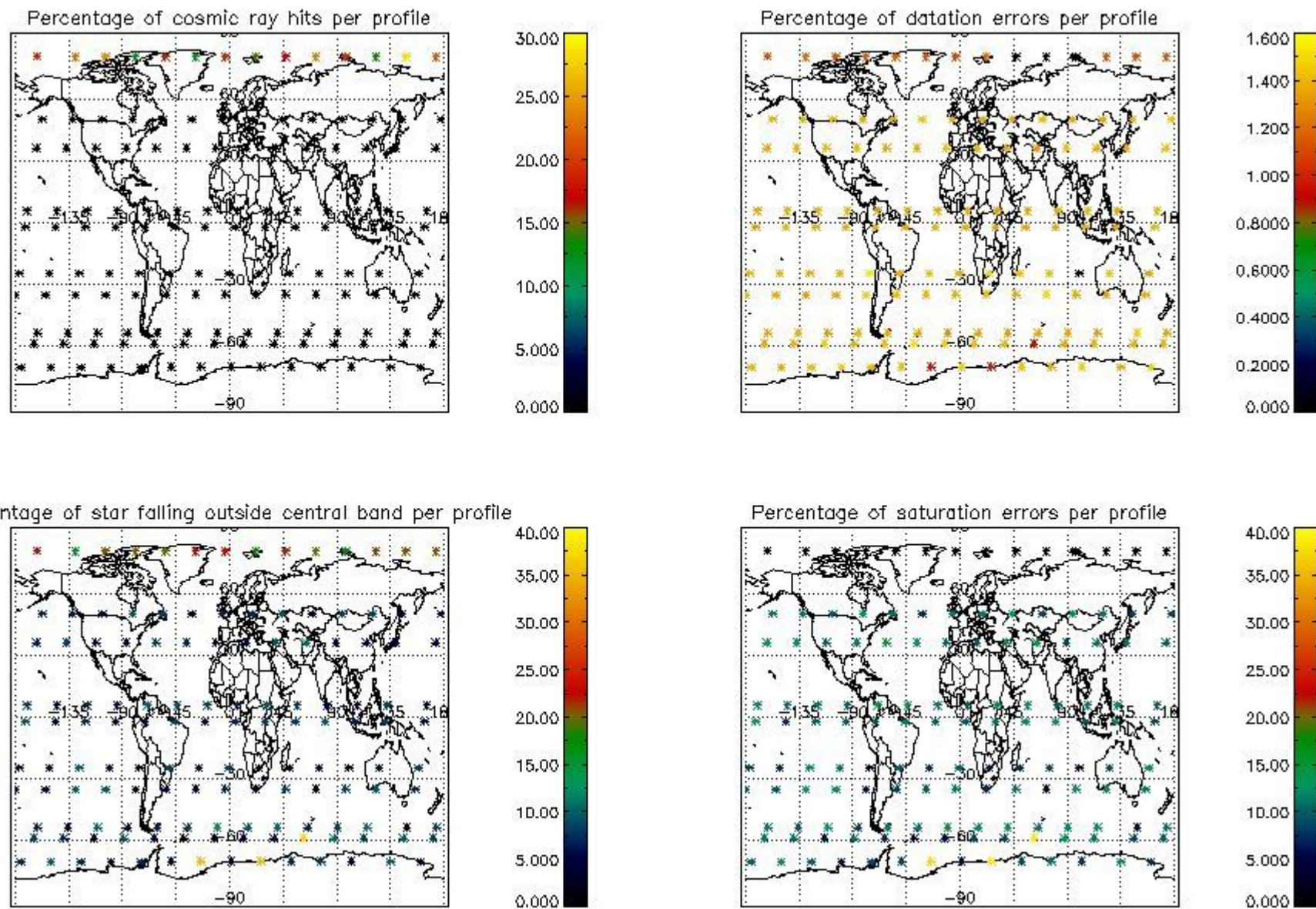
Percentage of star falling outside central band per profile



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

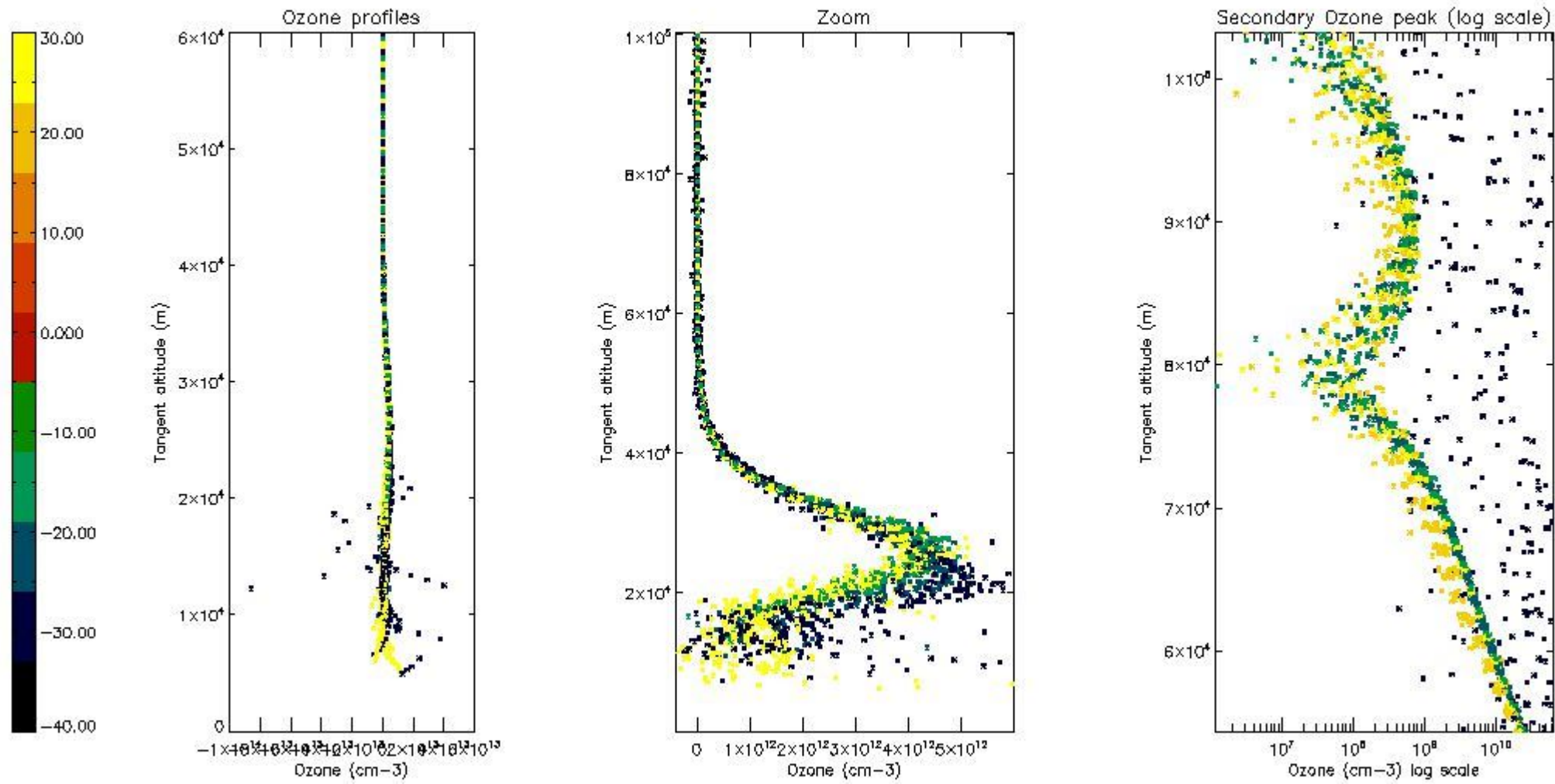
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	19

STD < 10	15
STD < 5	9

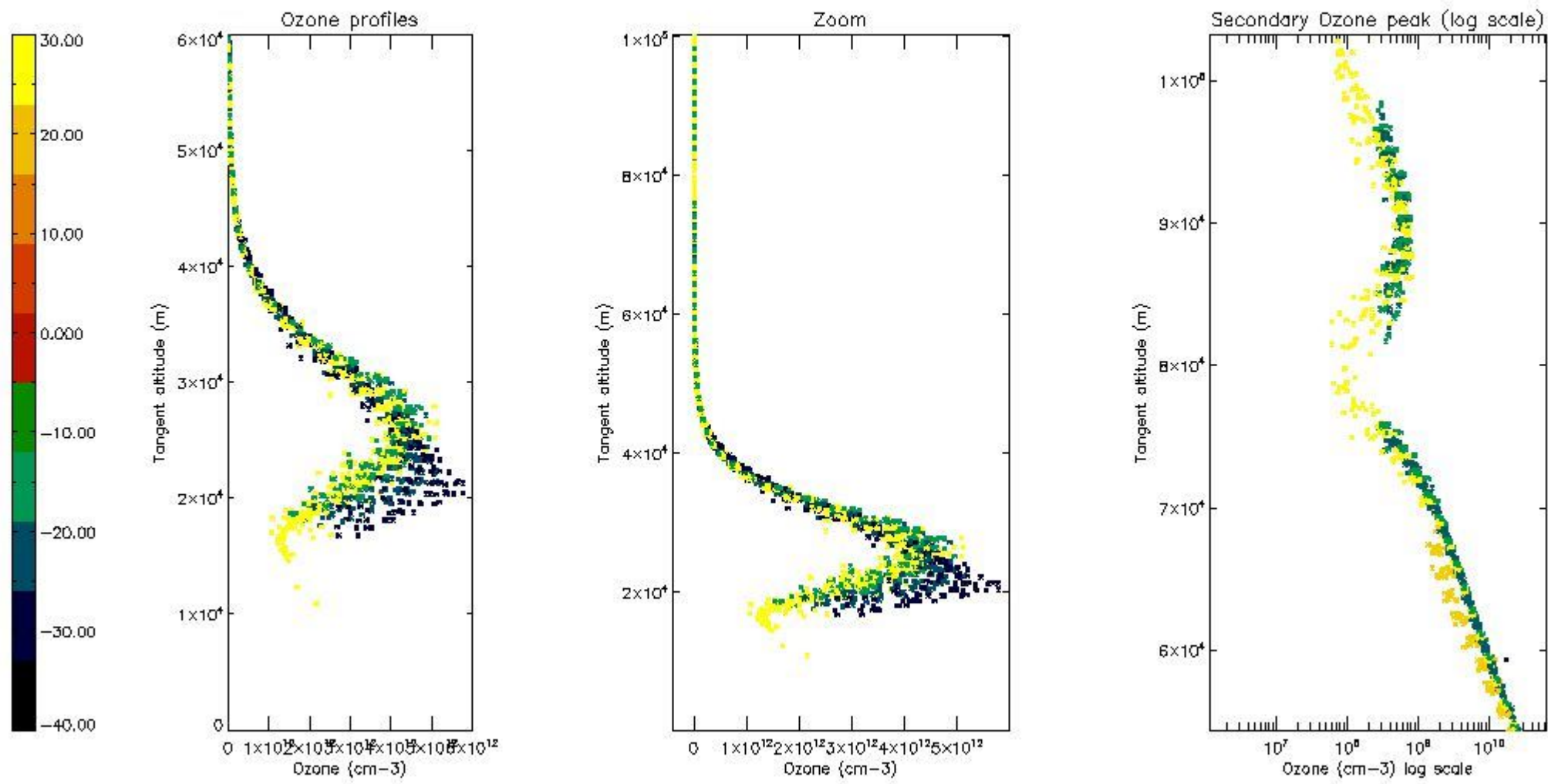
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



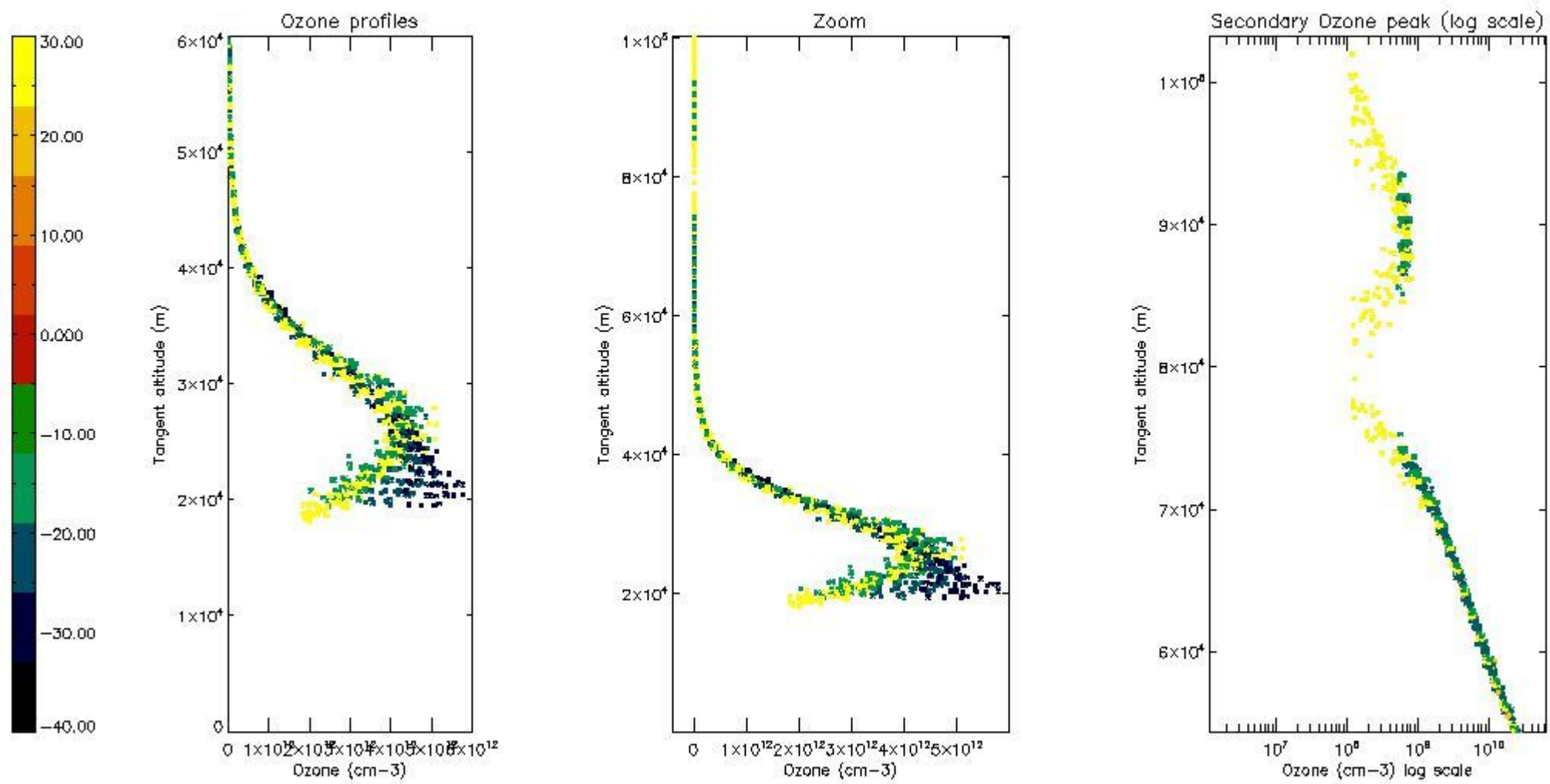
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



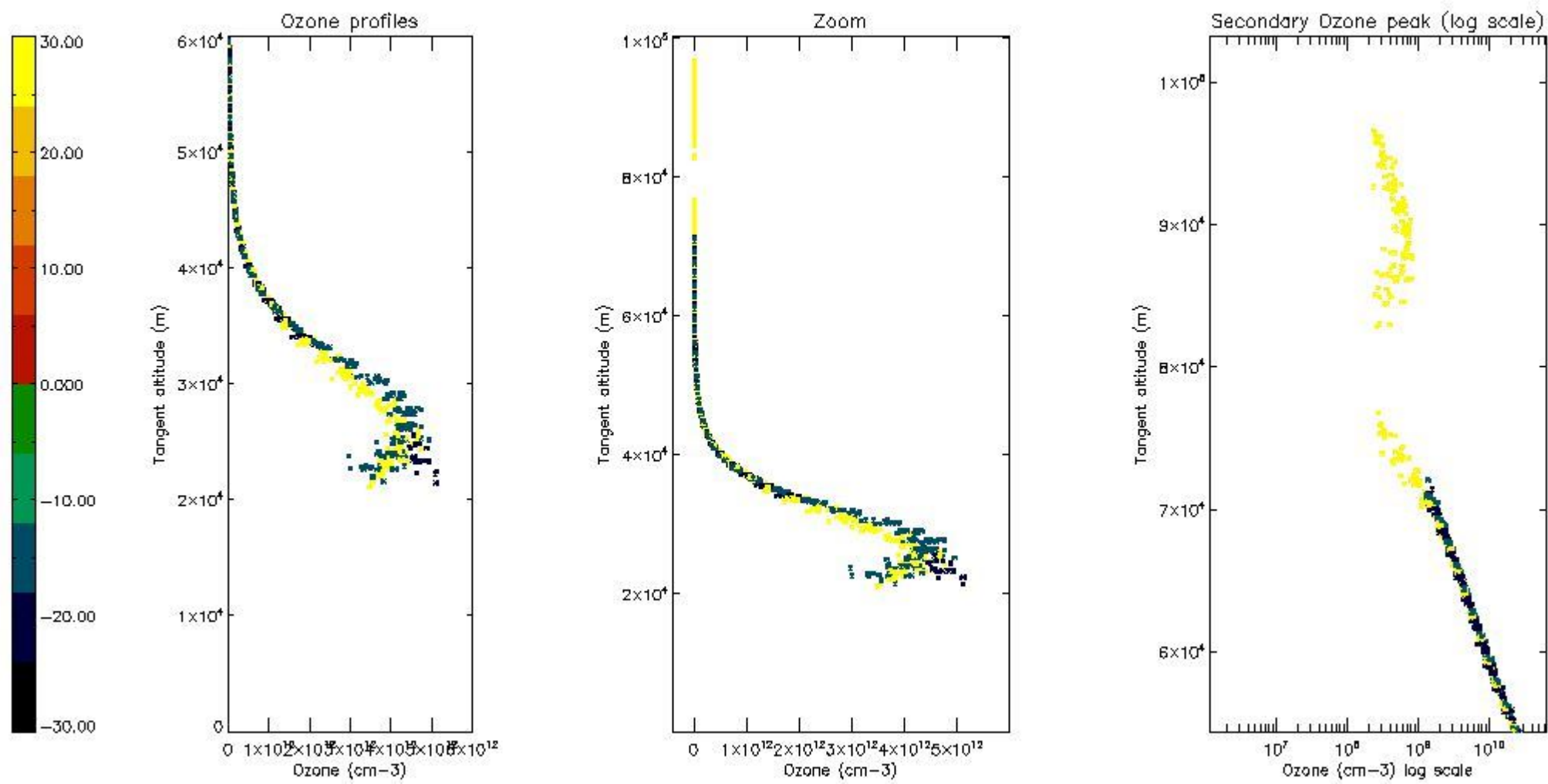
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



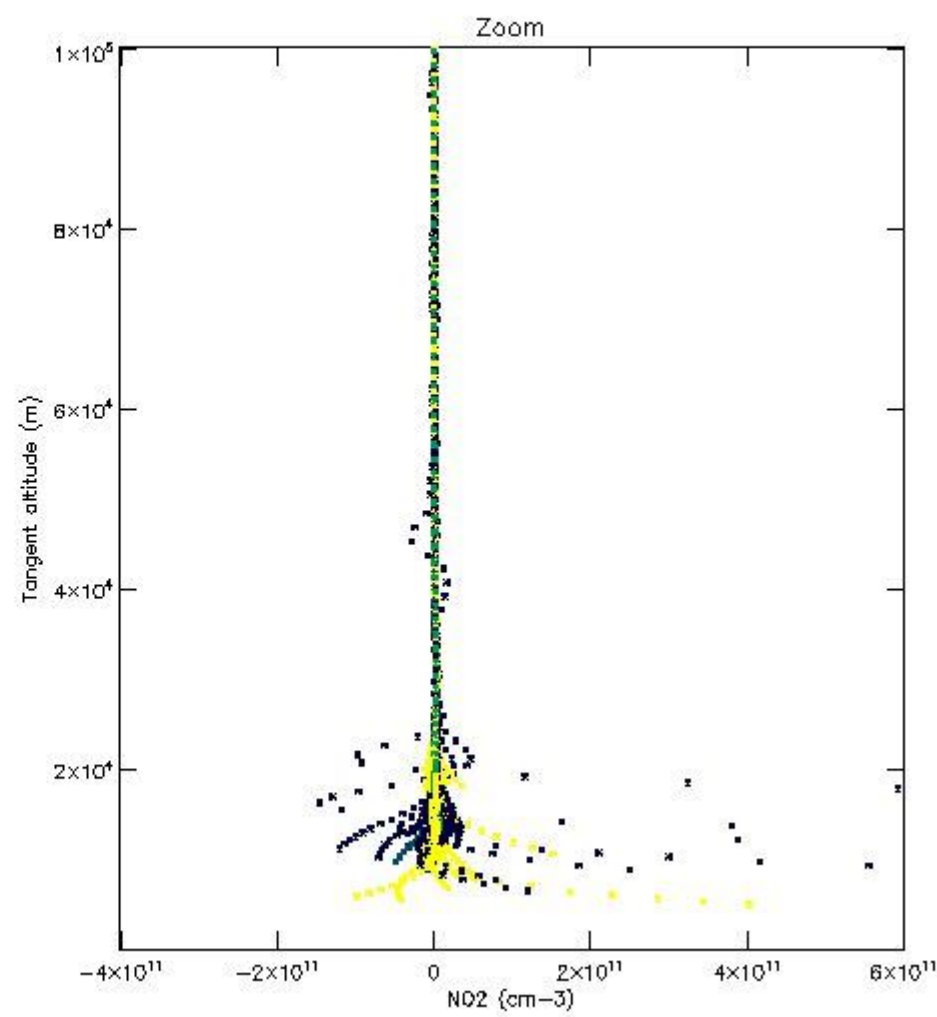
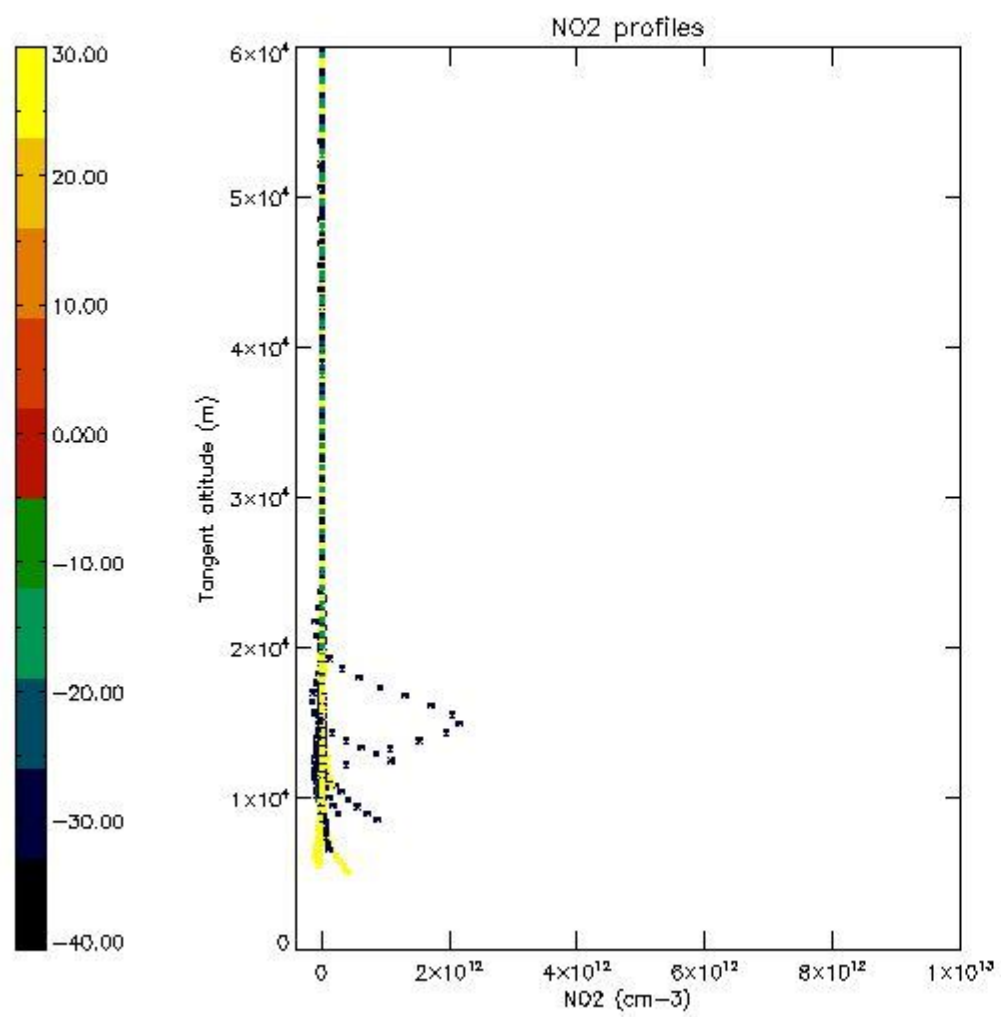
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



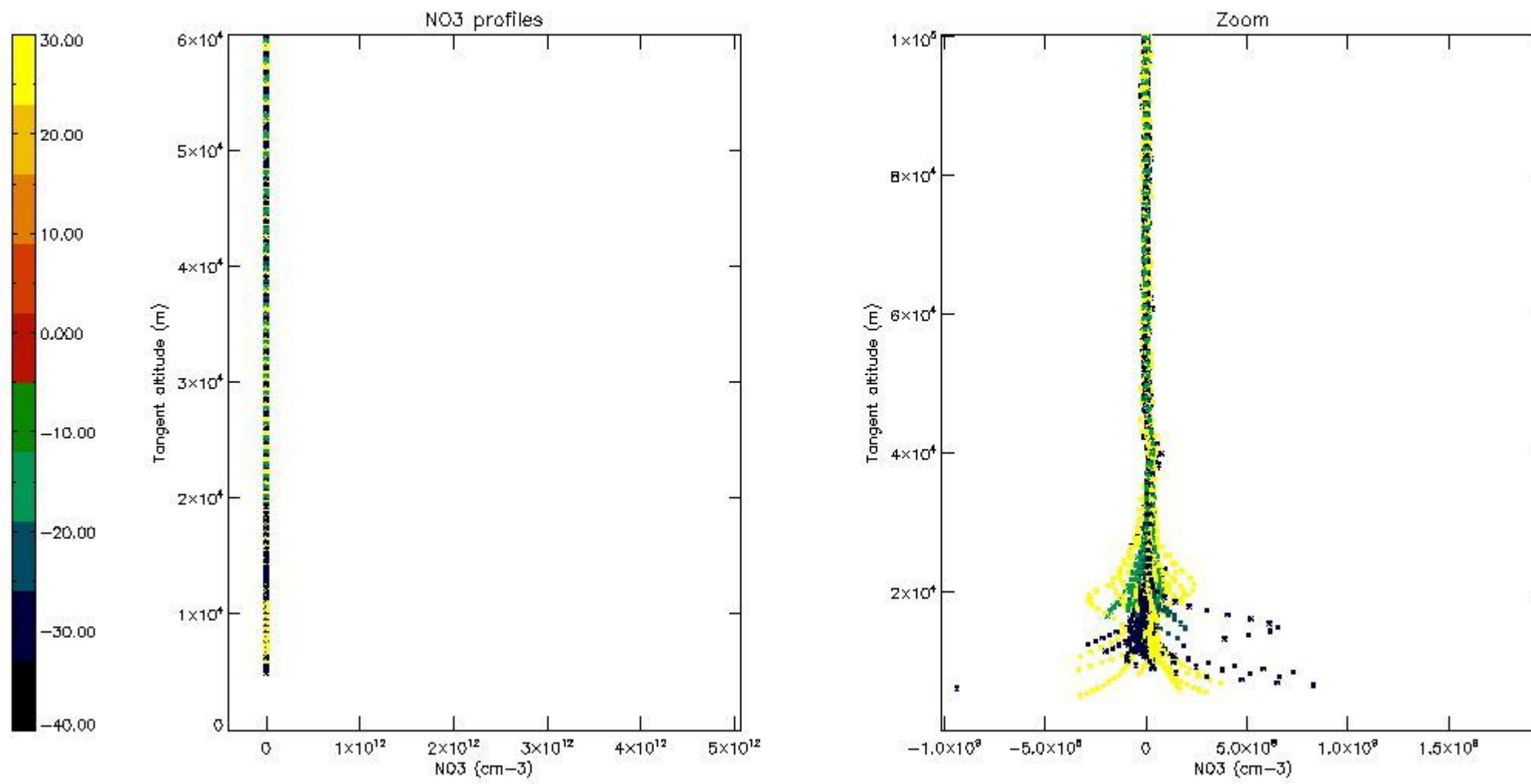
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

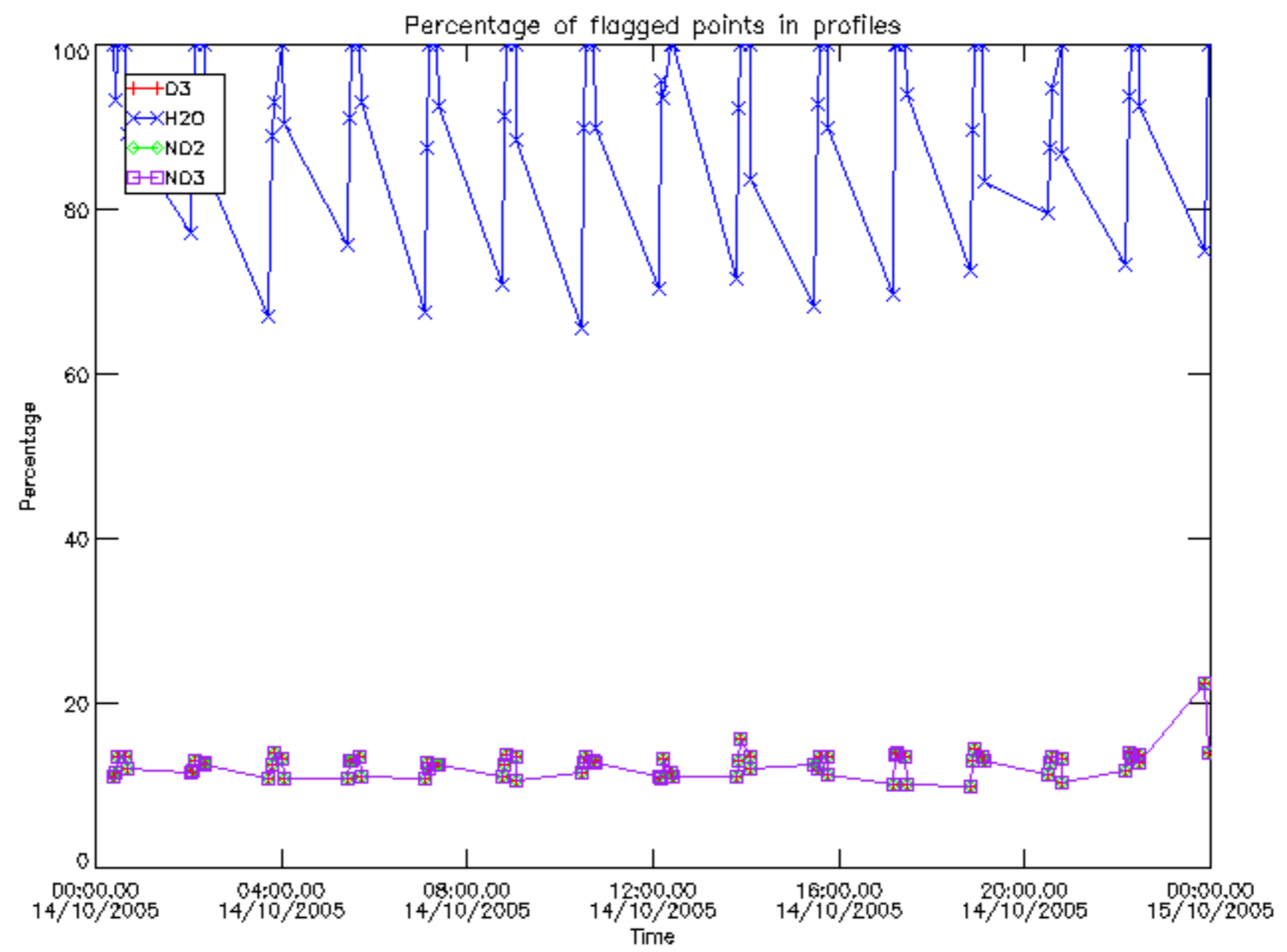
The colorbar represents the latitude.



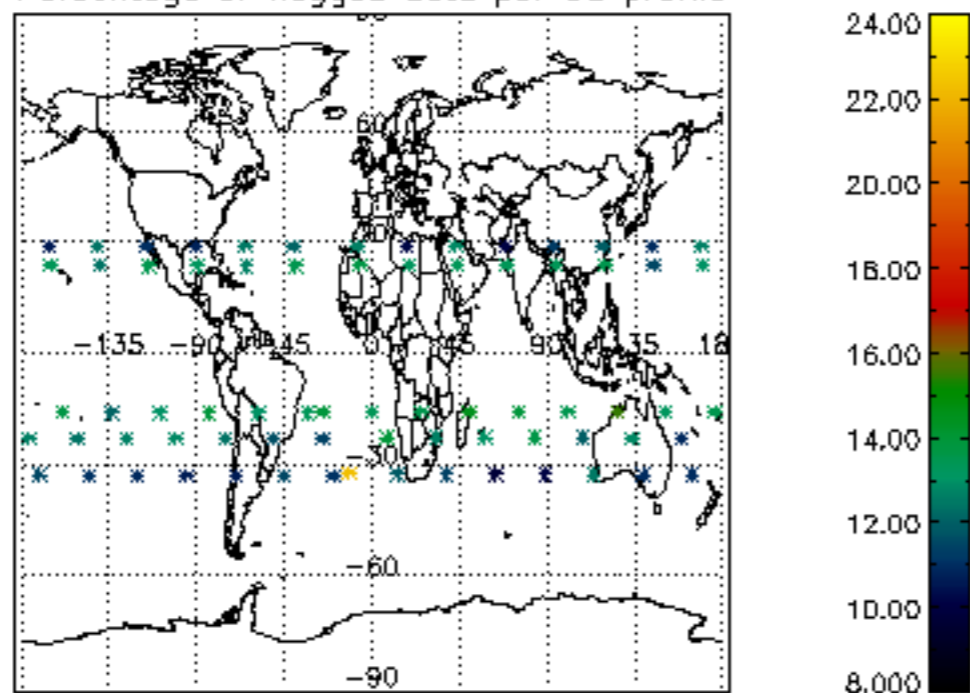
6. Auxiliary Data Files used for the production reported in section 2

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.

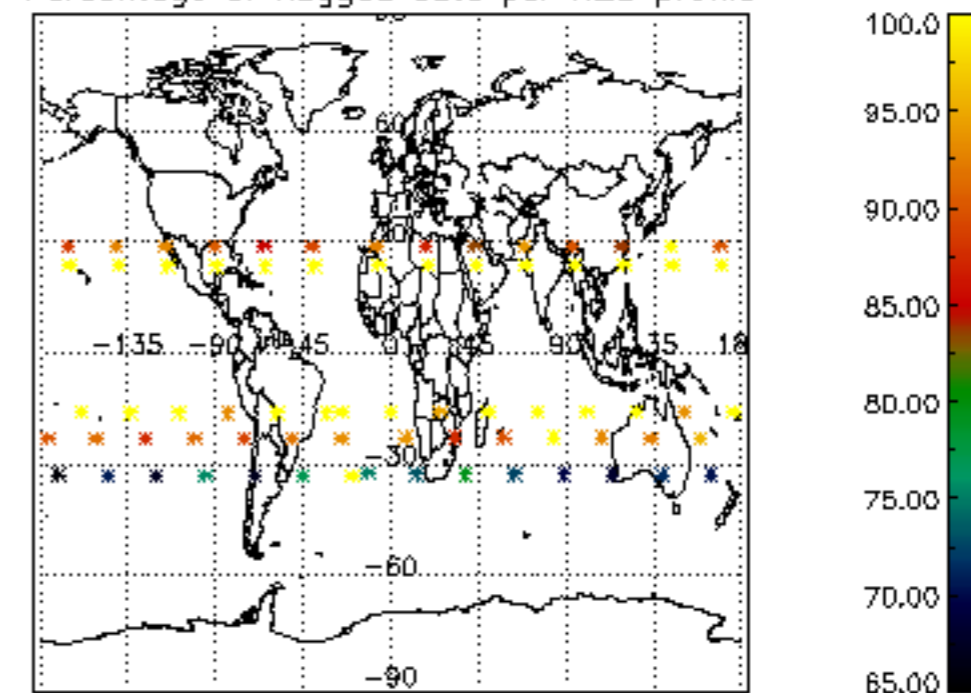
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	14-OCT-2005 00:02:39
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-OCT-2005 00:02:39
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-OCT-2005 00:02:39



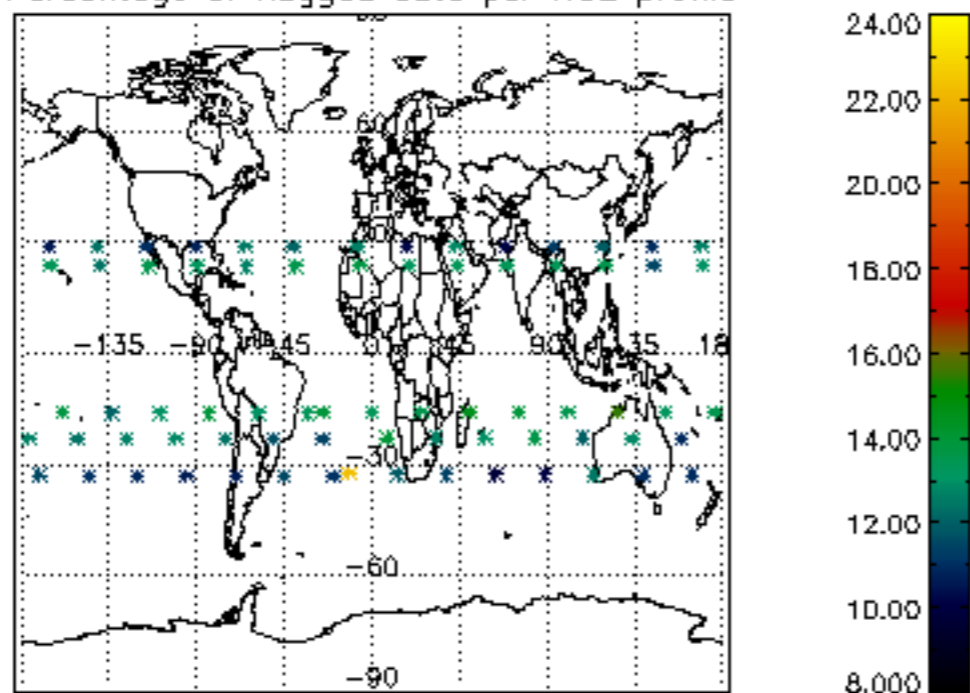
Percentage of flagged data per D3 profile



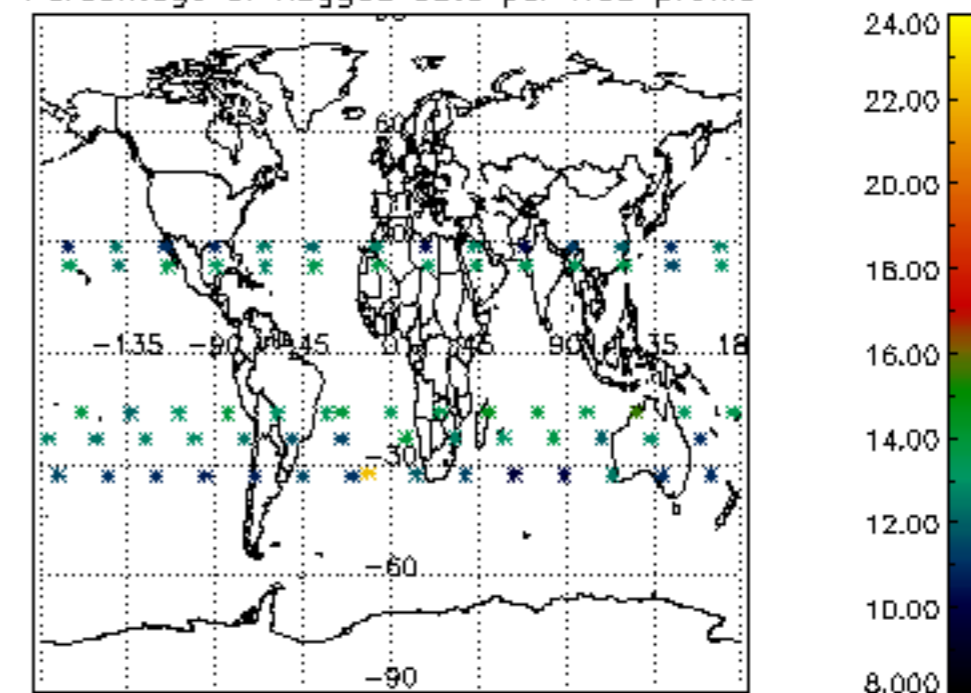
Percentage of flagged data per H2O profile

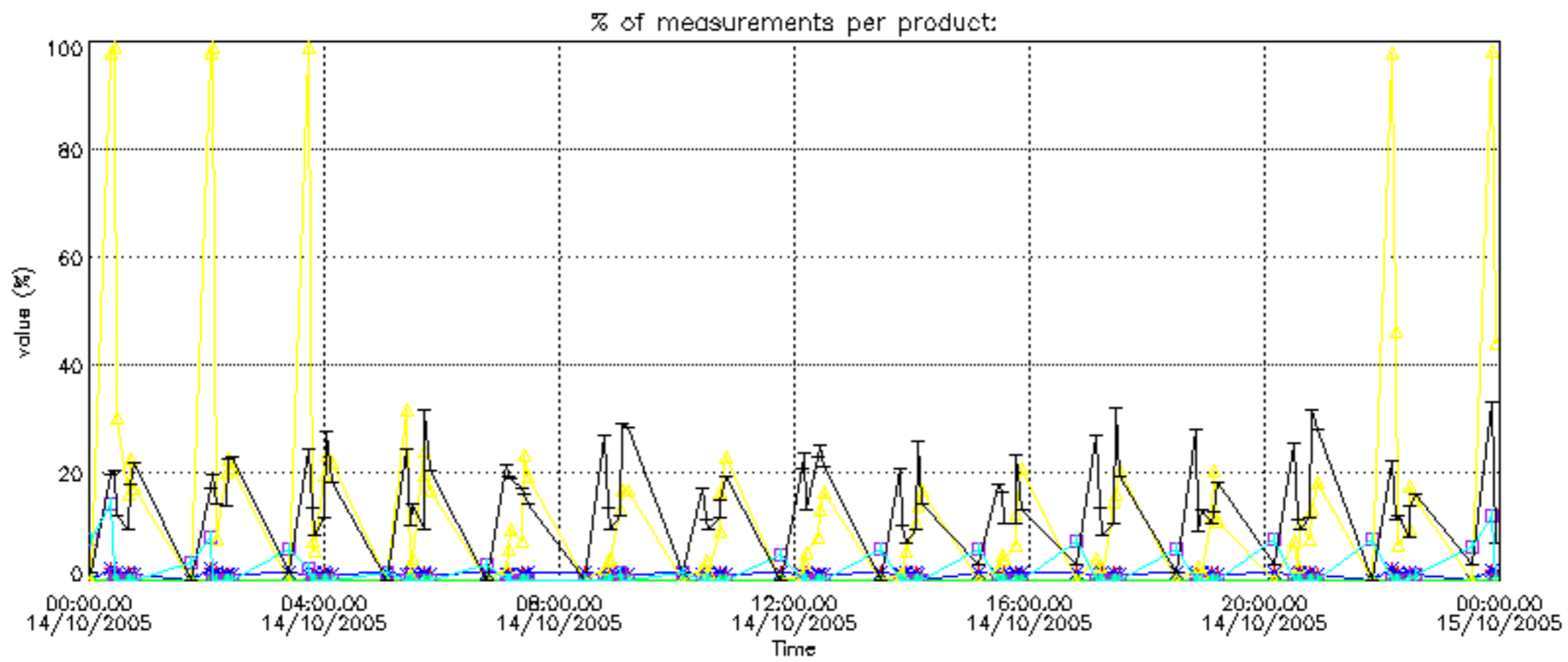


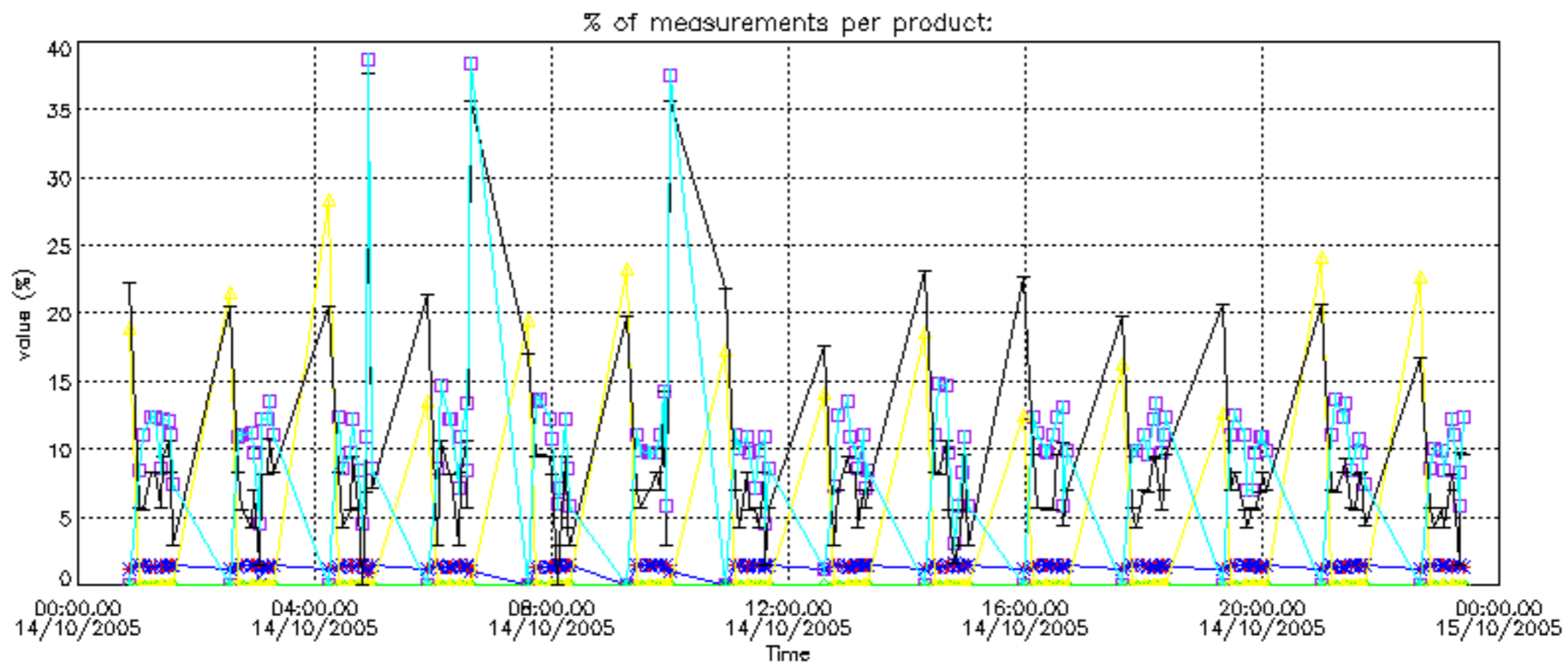
Percentage of flagged data per NO2 profile



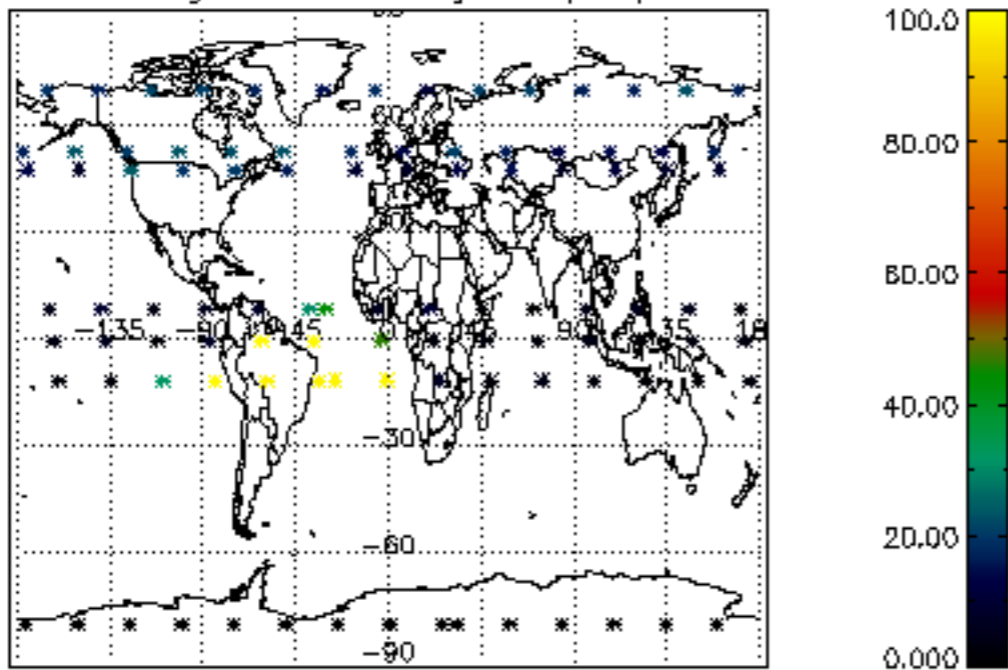
Percentage of flagged data per NO3 profile



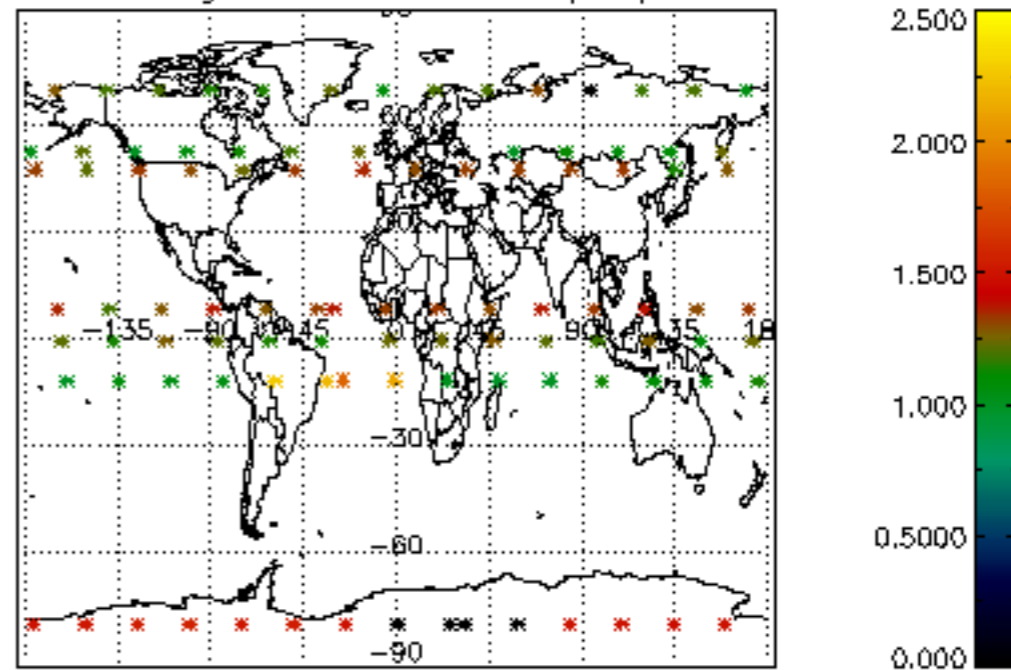




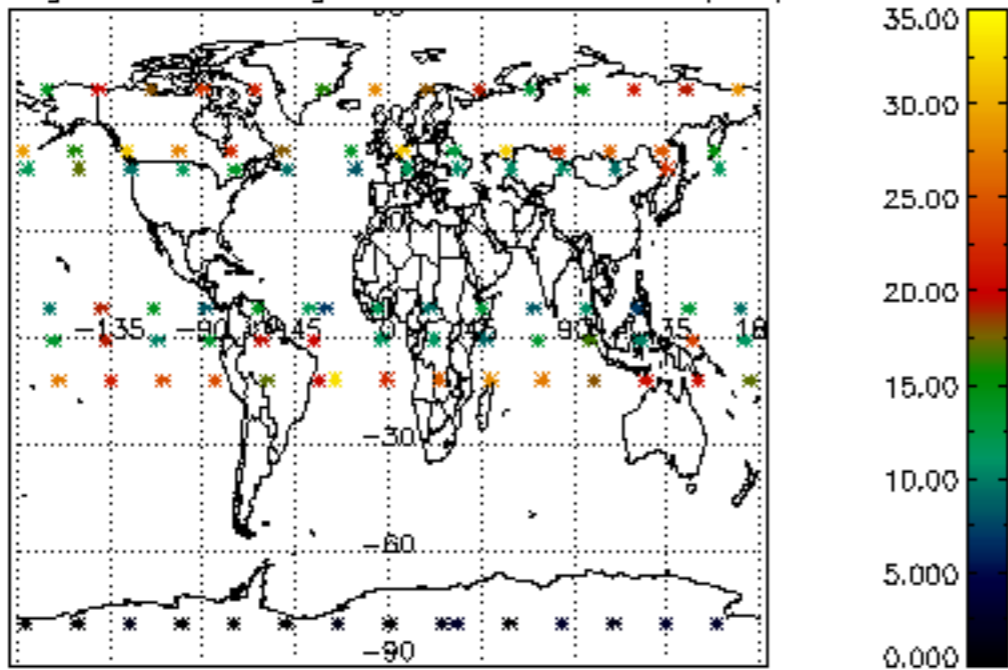
Percentage of cosmic ray hits per profile



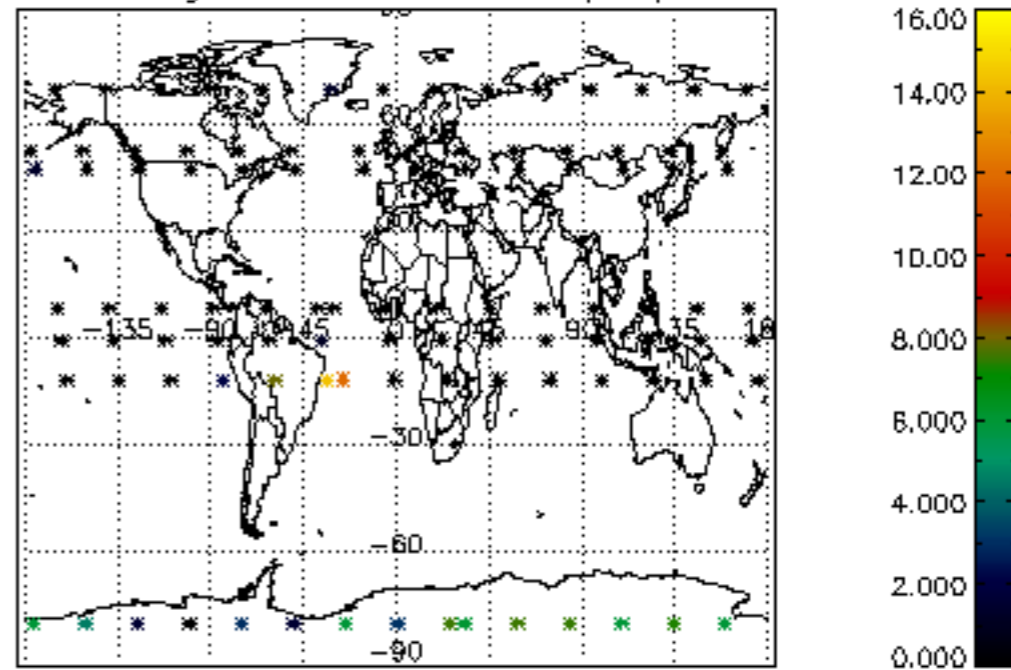
Percentage of datation errors per profile



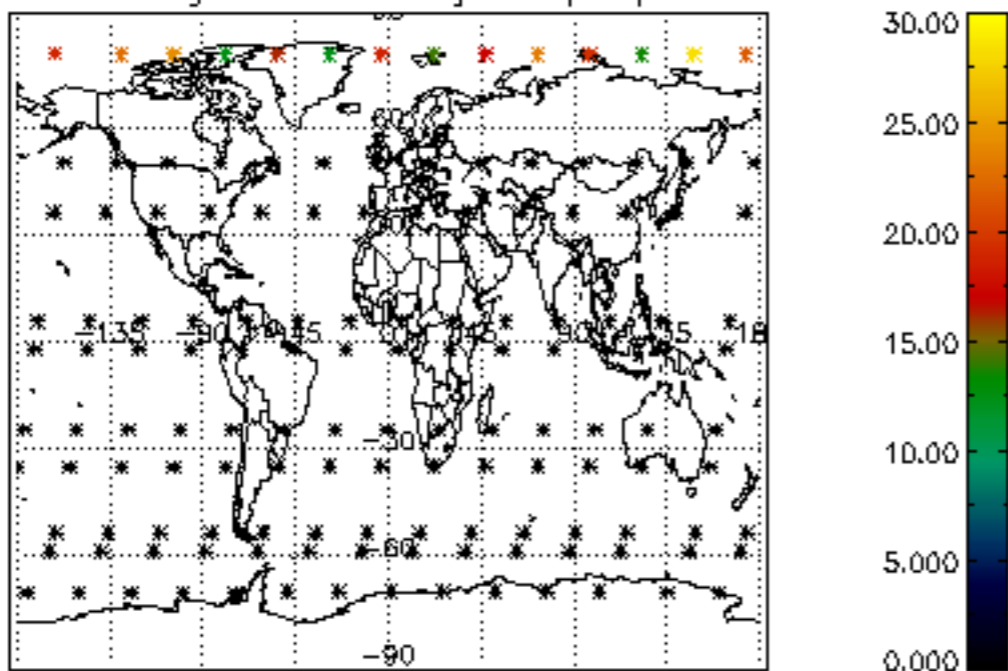
Percentage of star falling outside central band per profile



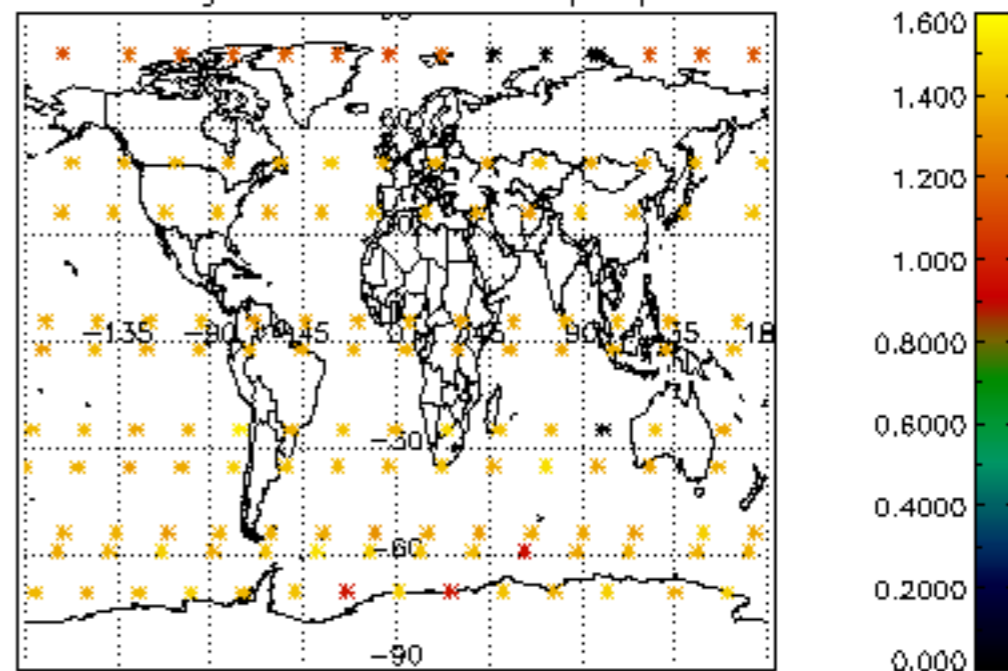
Percentage of saturation errors per profile



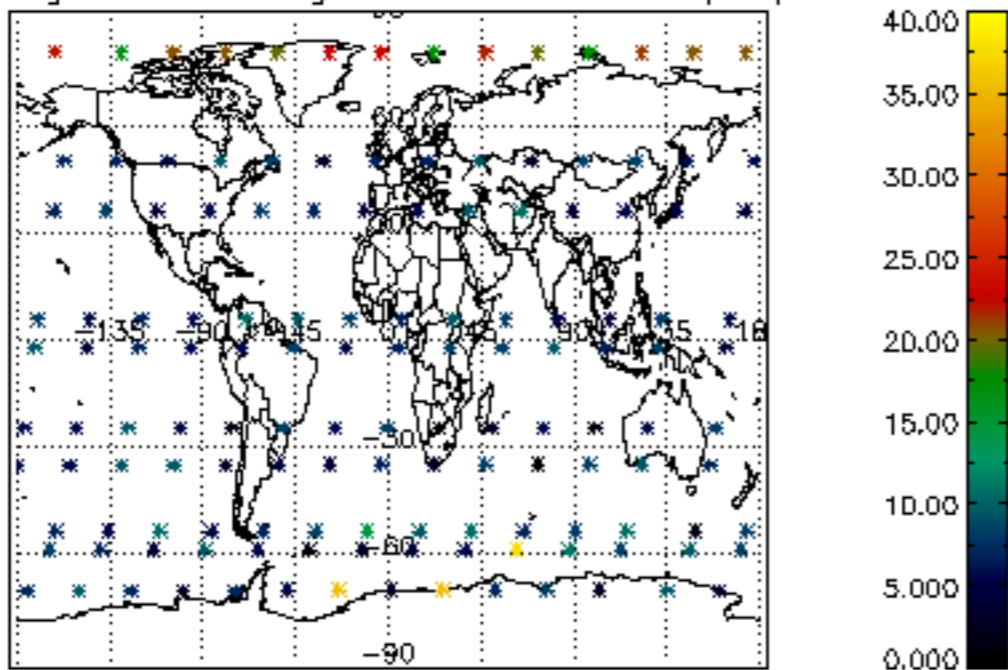
Percentage of cosmic ray hits per profile



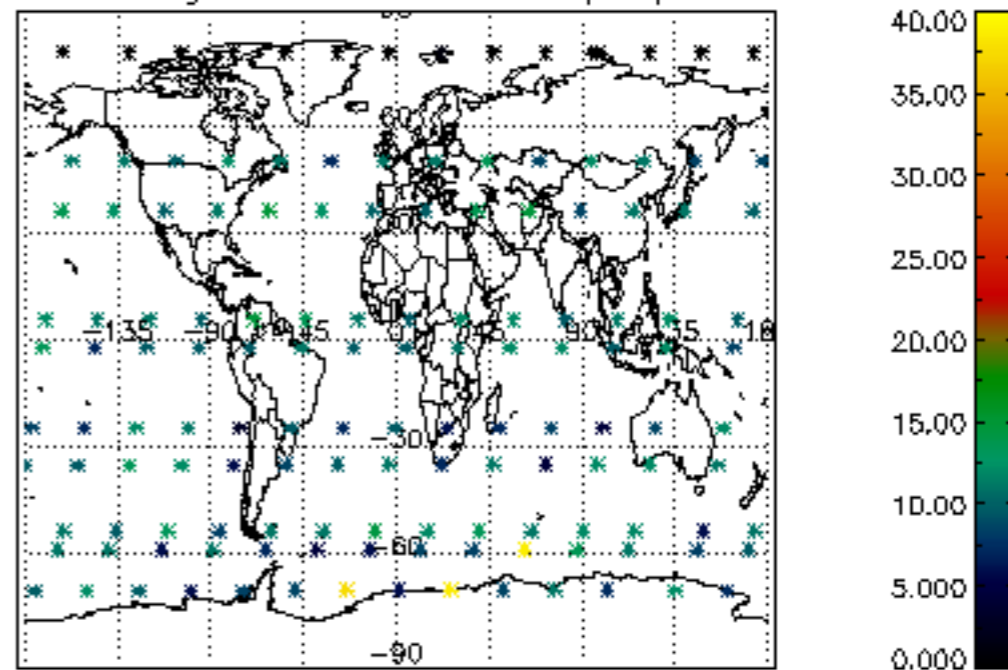
Percentage of datation errors per profile

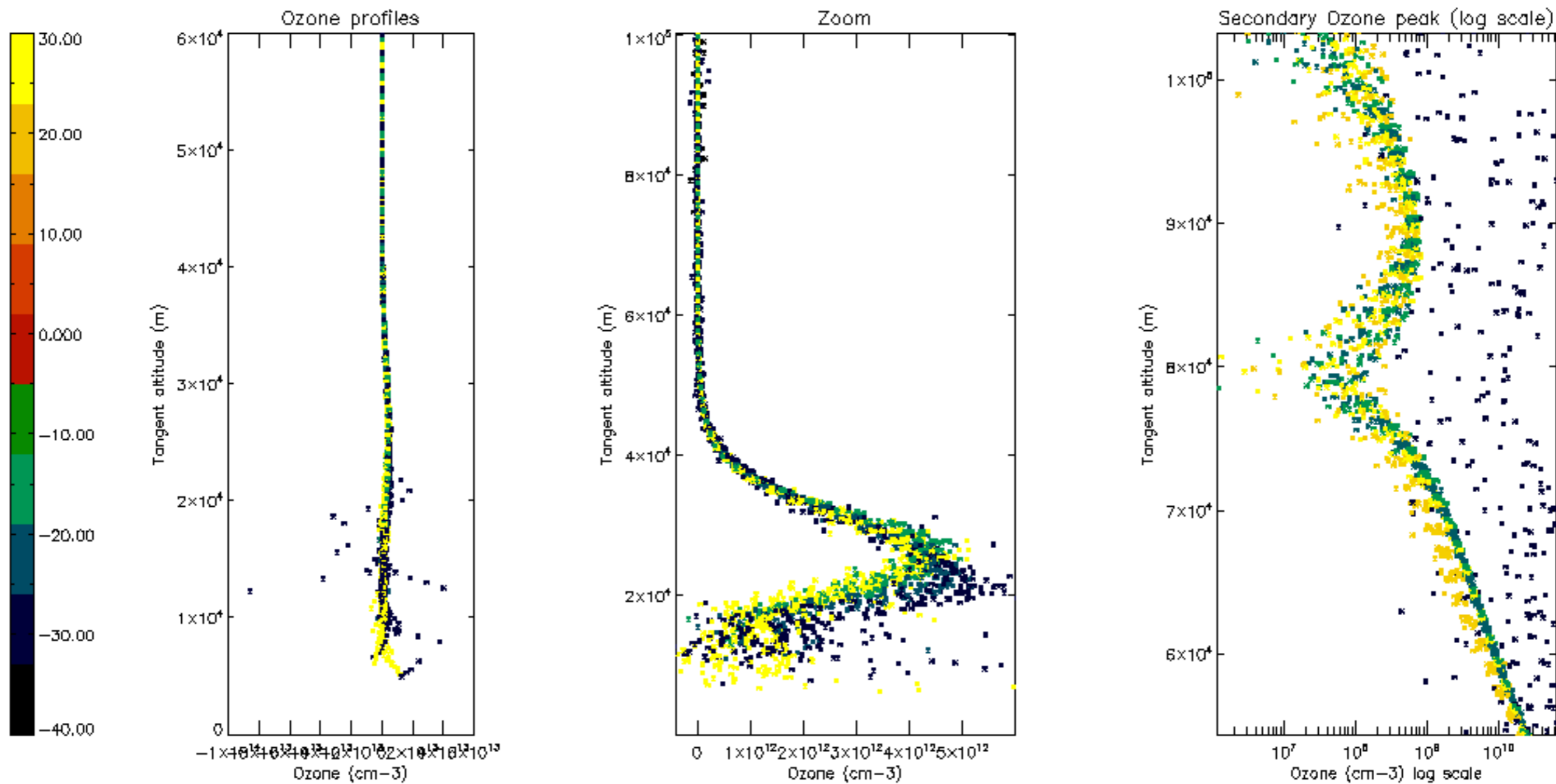


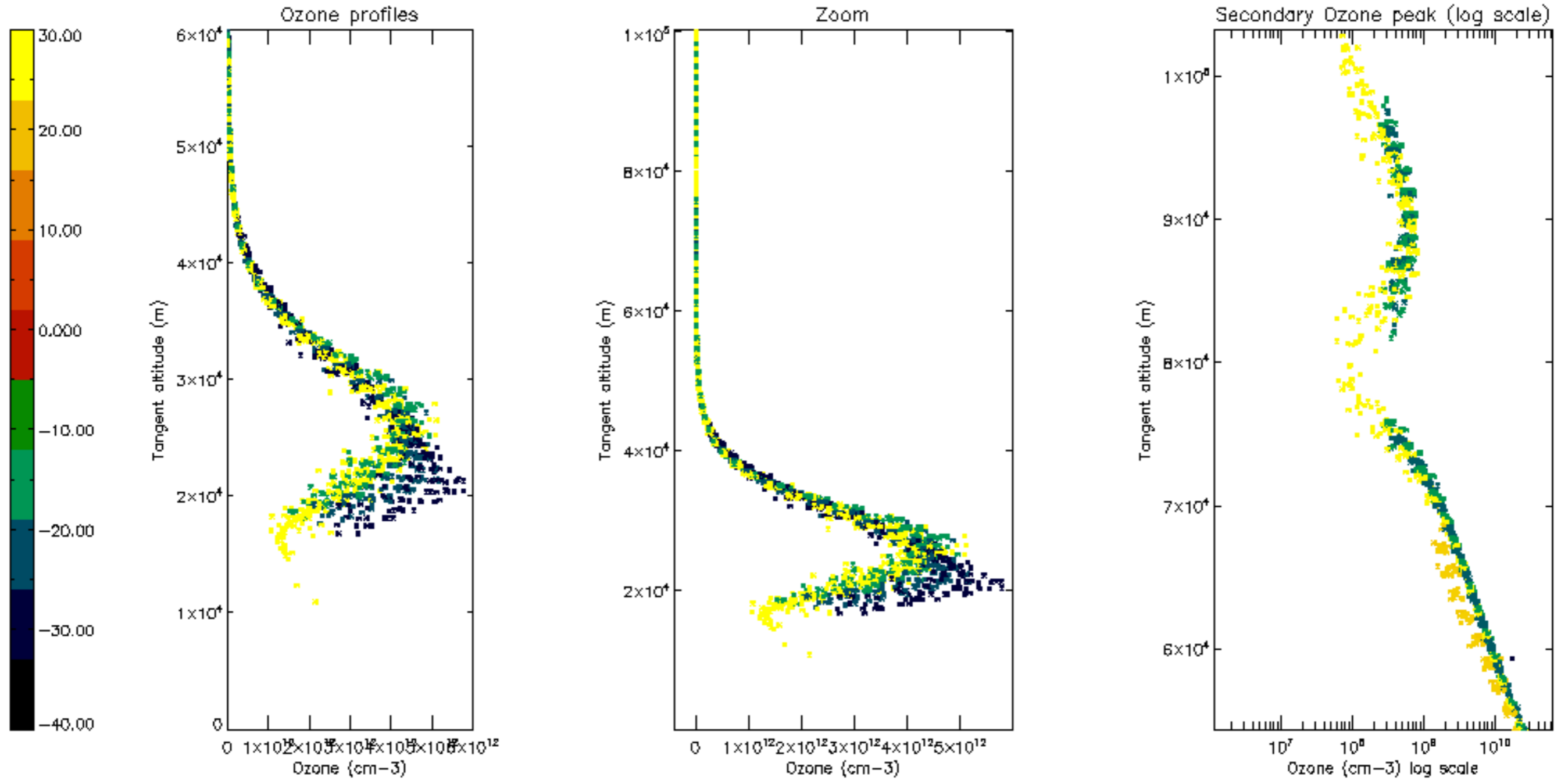
Percentage of star falling outside central band per profile

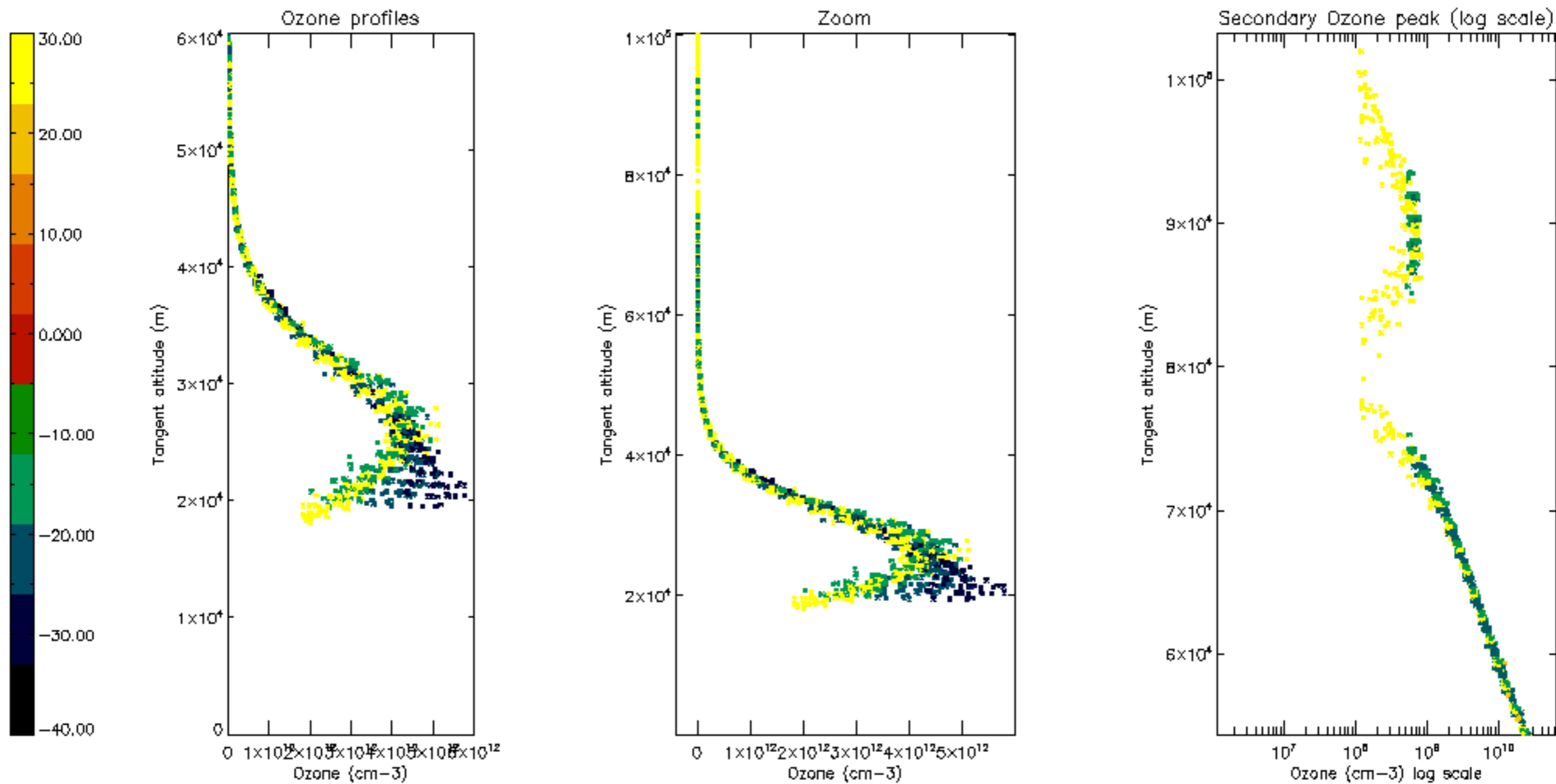


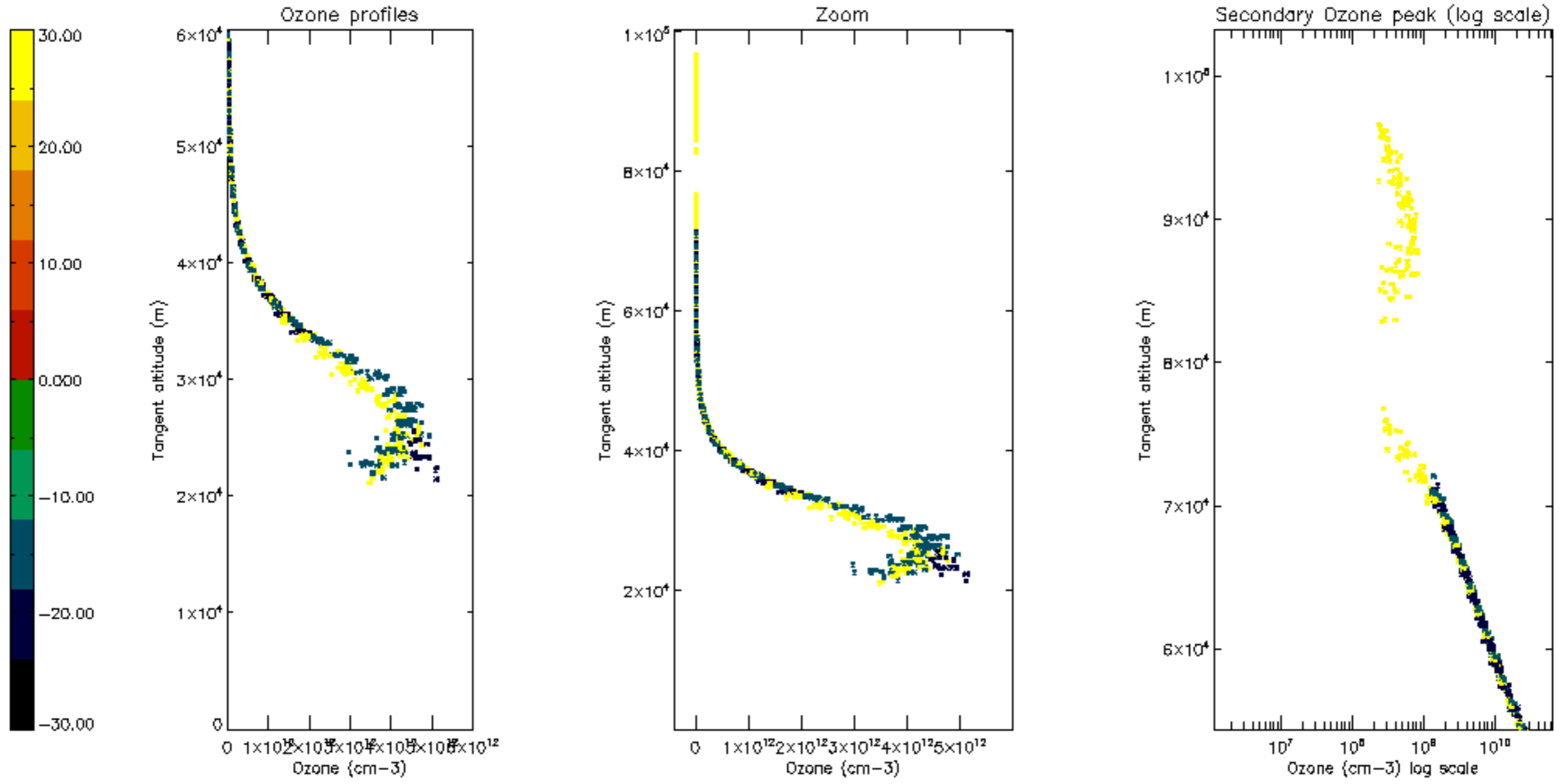
Percentage of saturation errors per profile

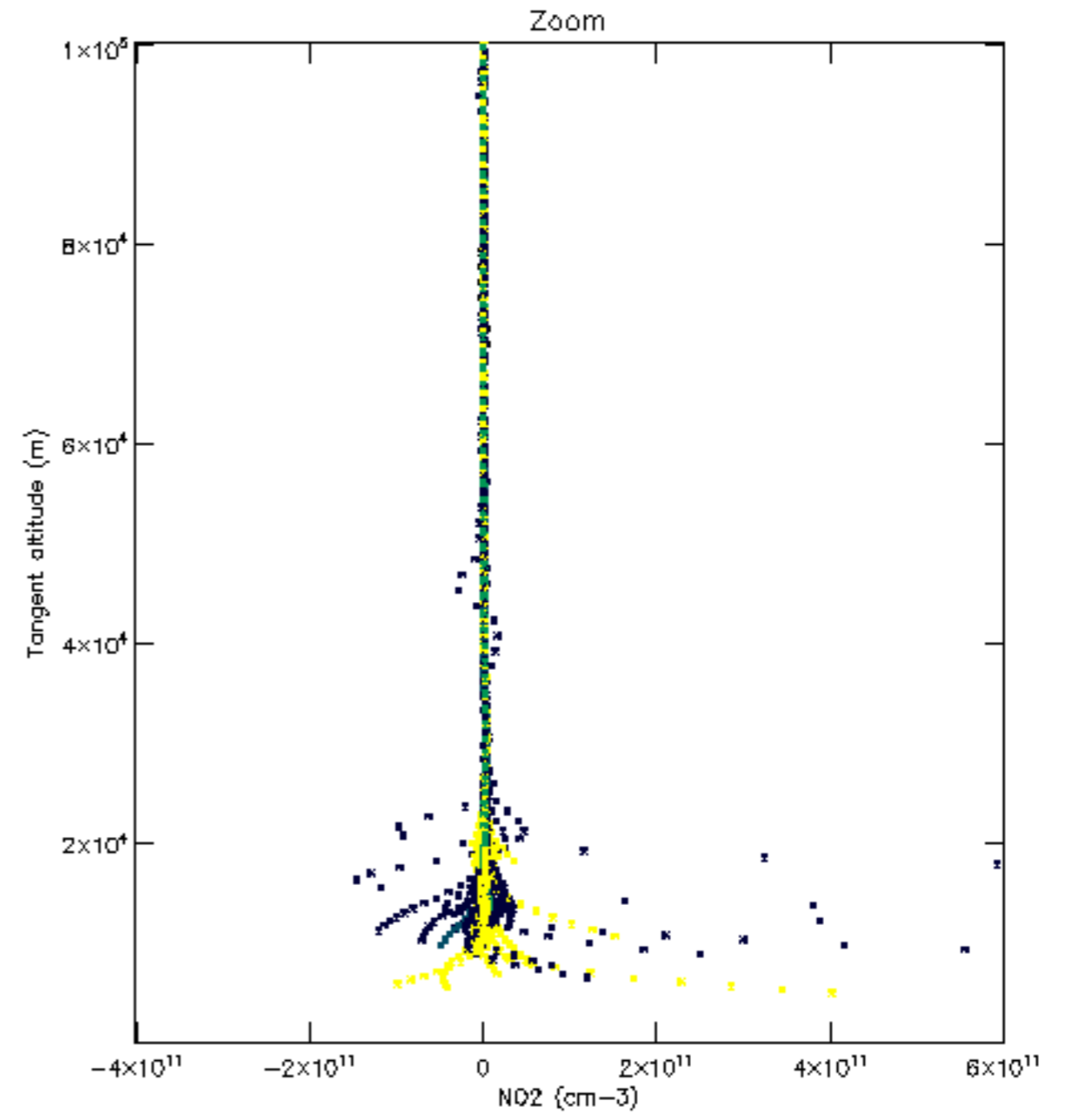
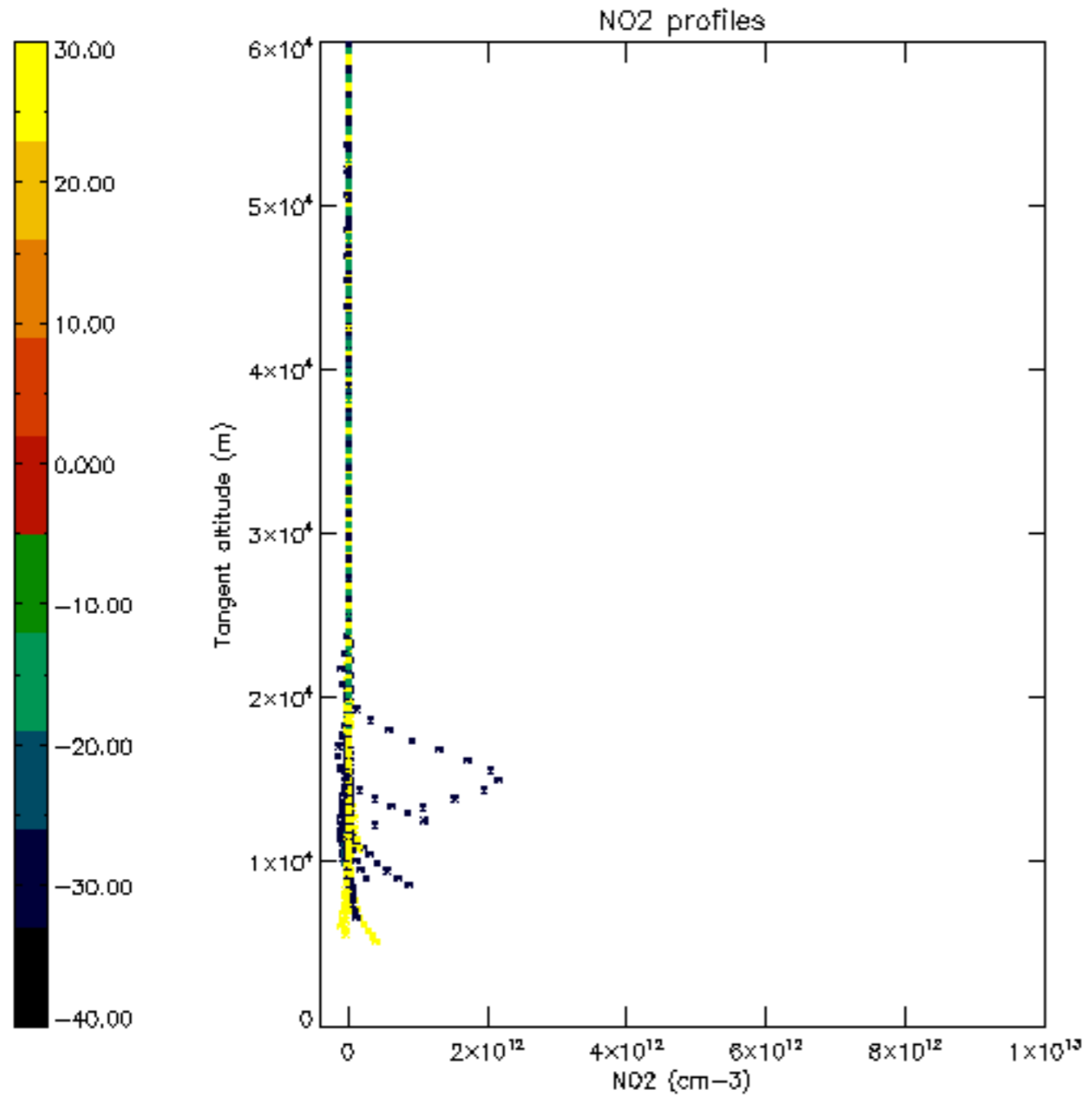


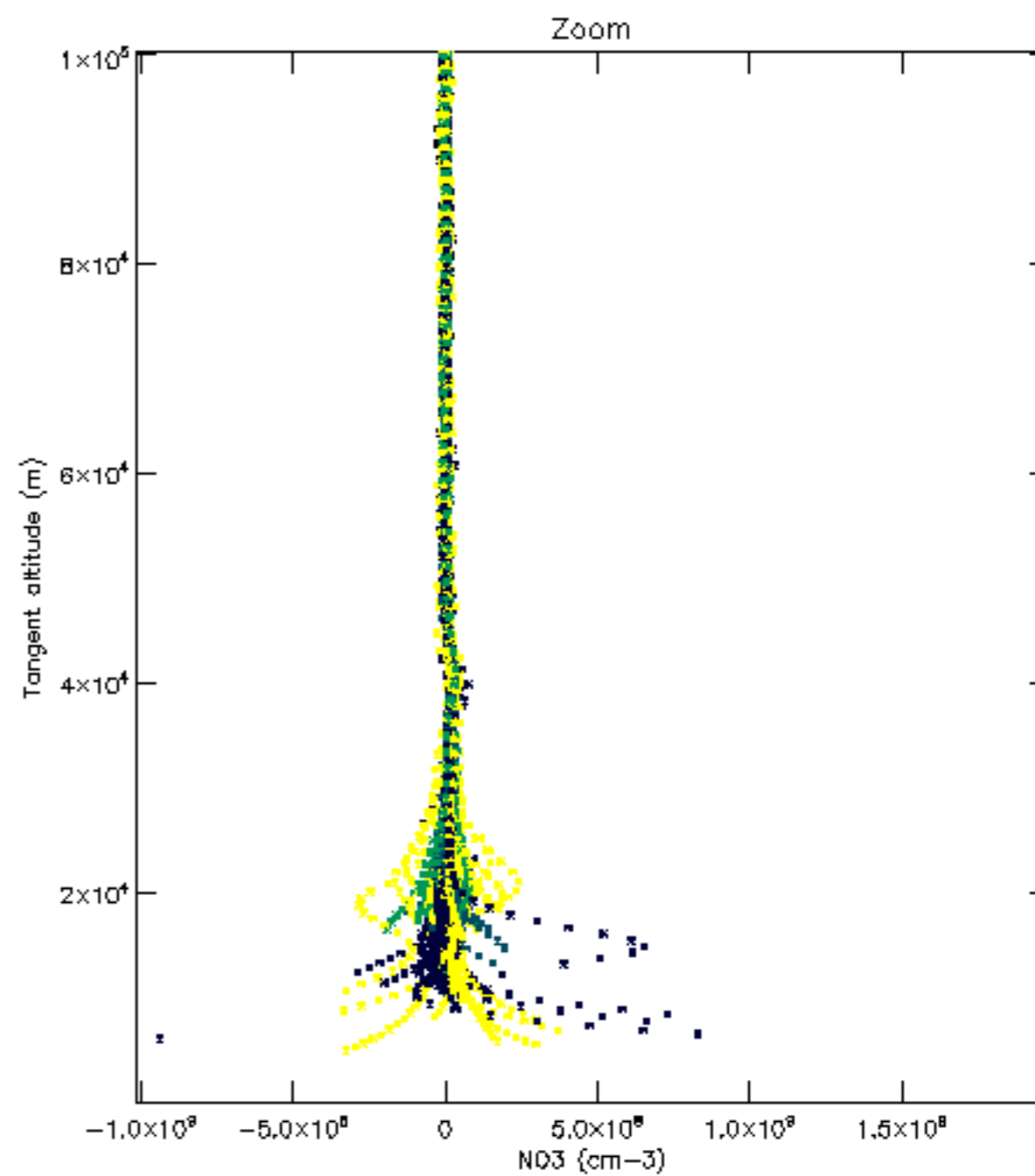
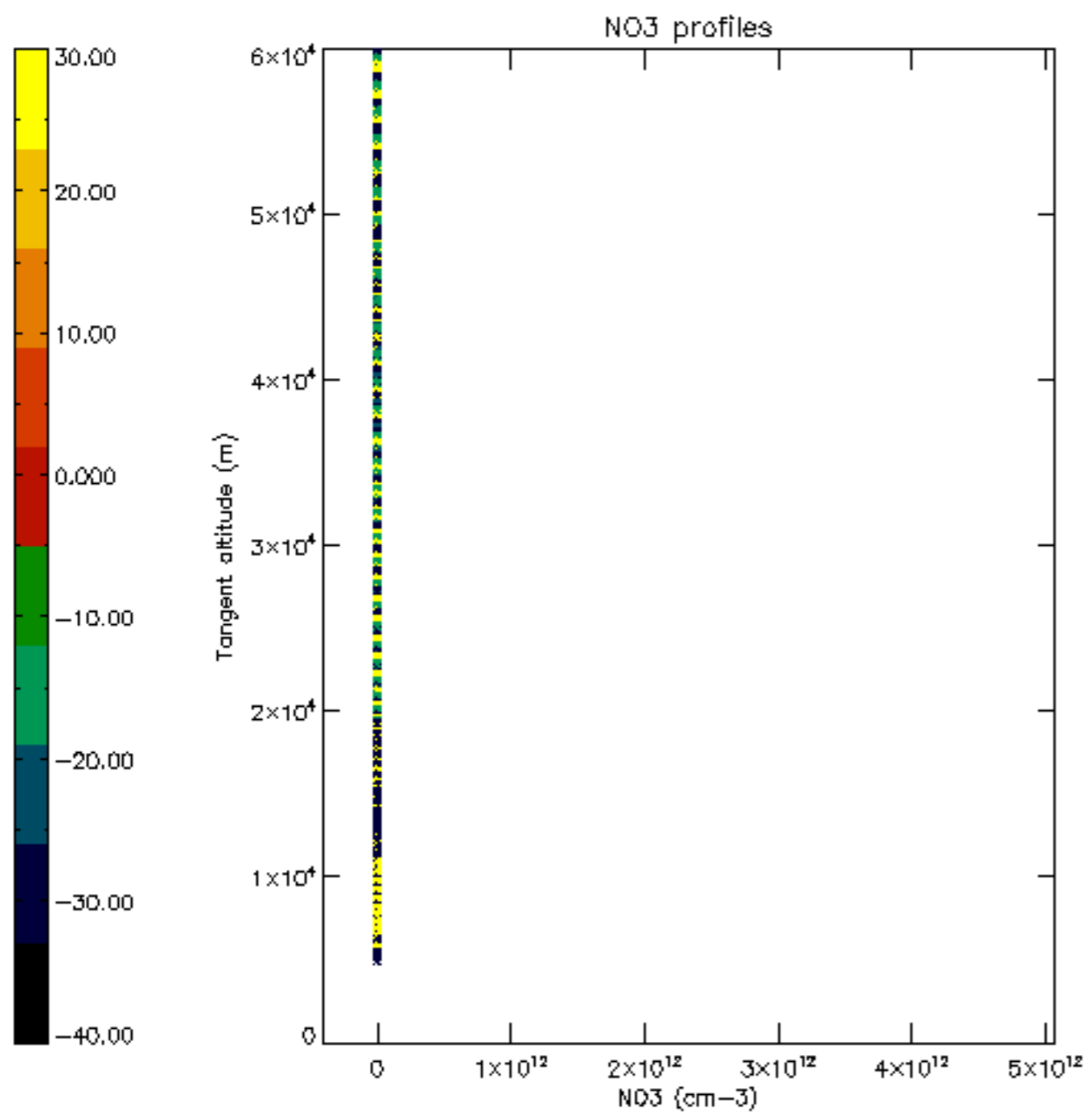


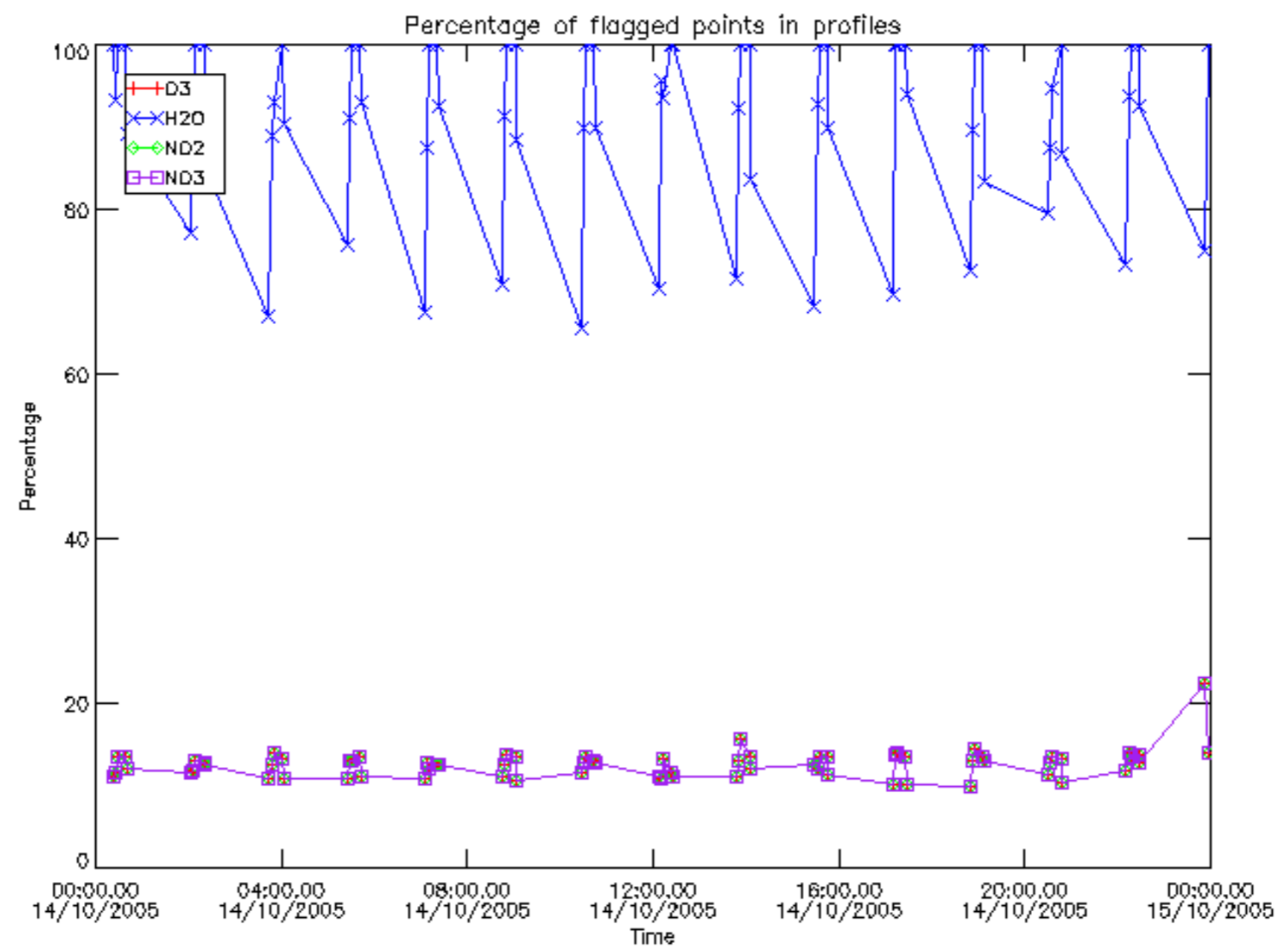




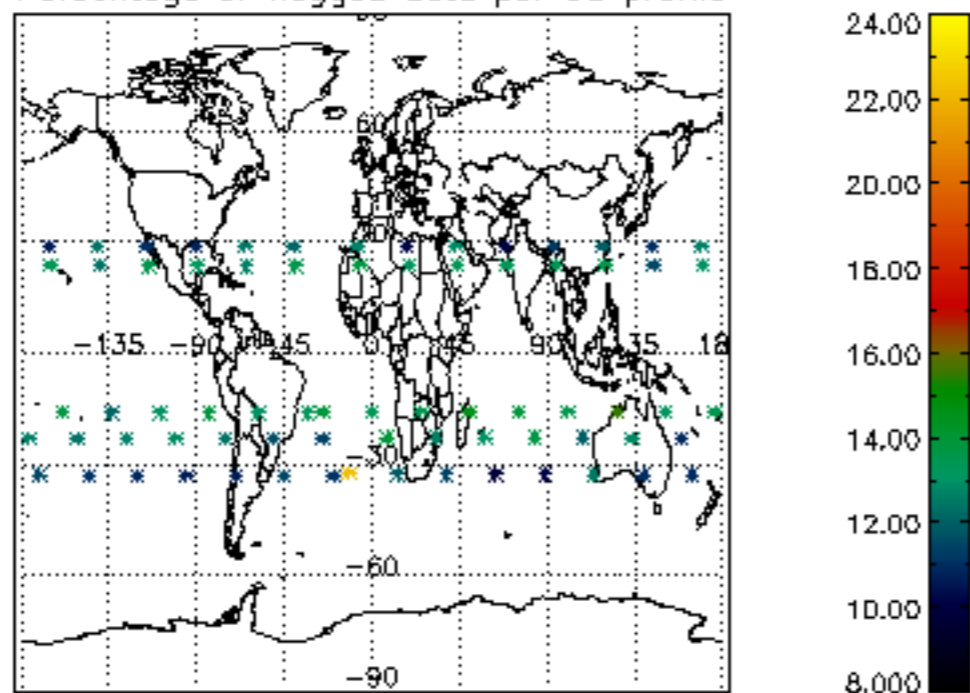




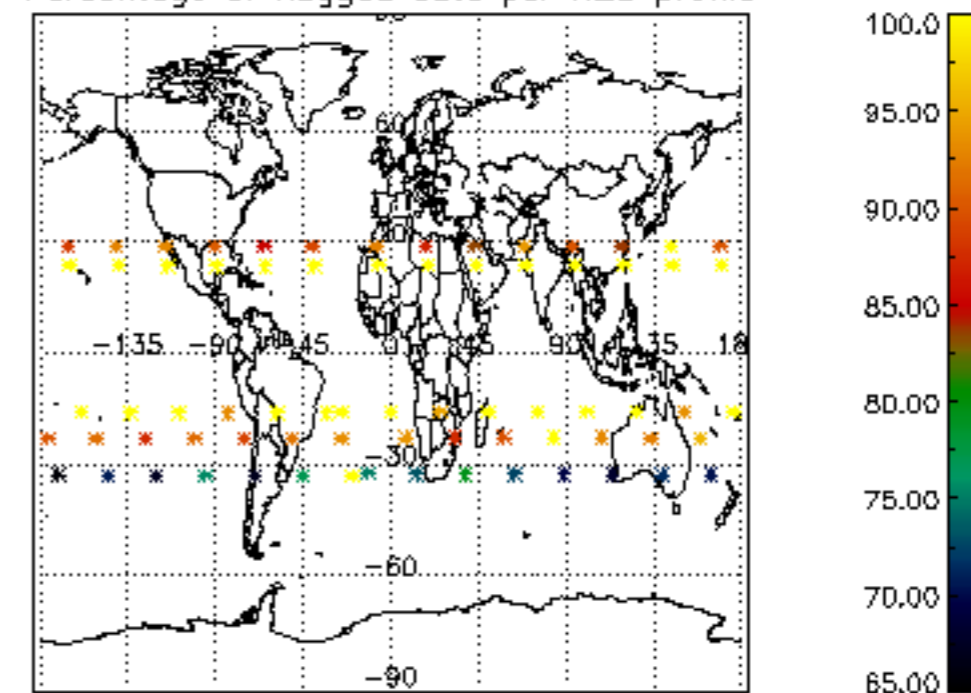




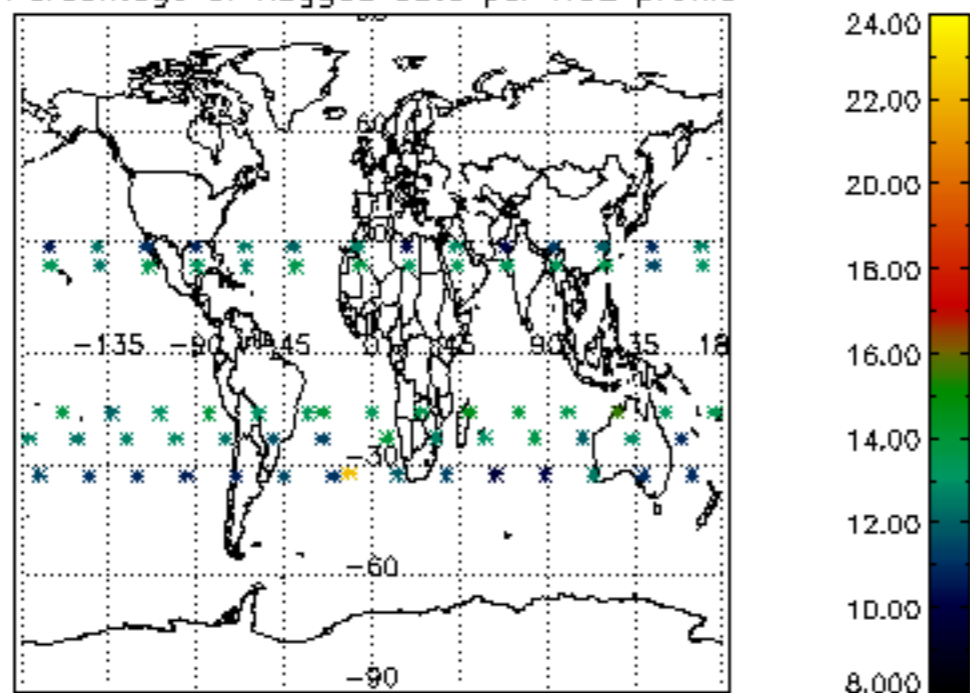
Percentage of flagged data per D3 profile



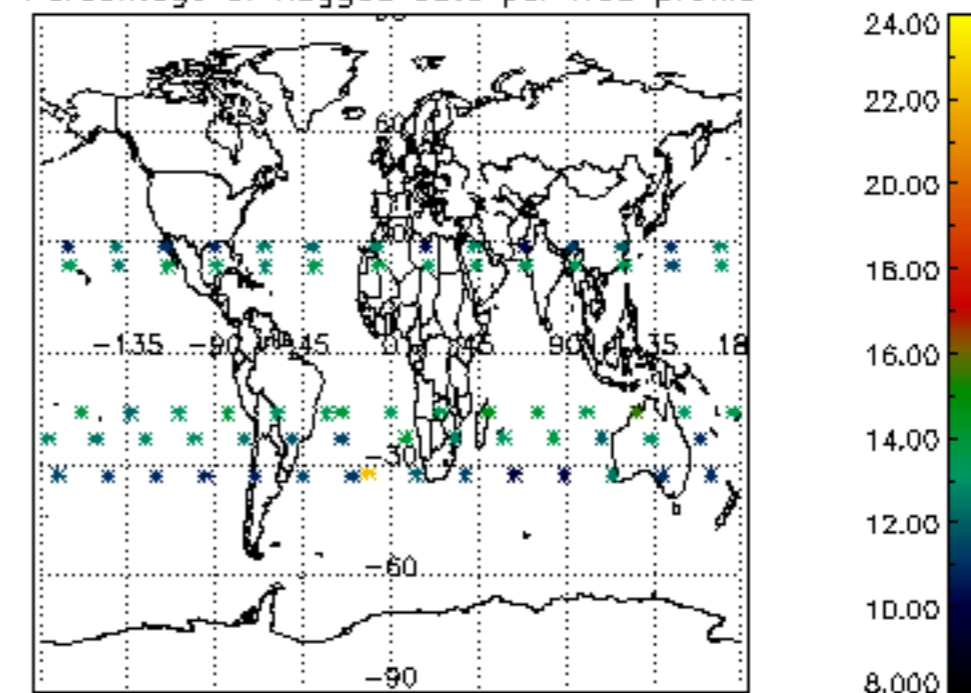
Percentage of flagged data per H2O profile

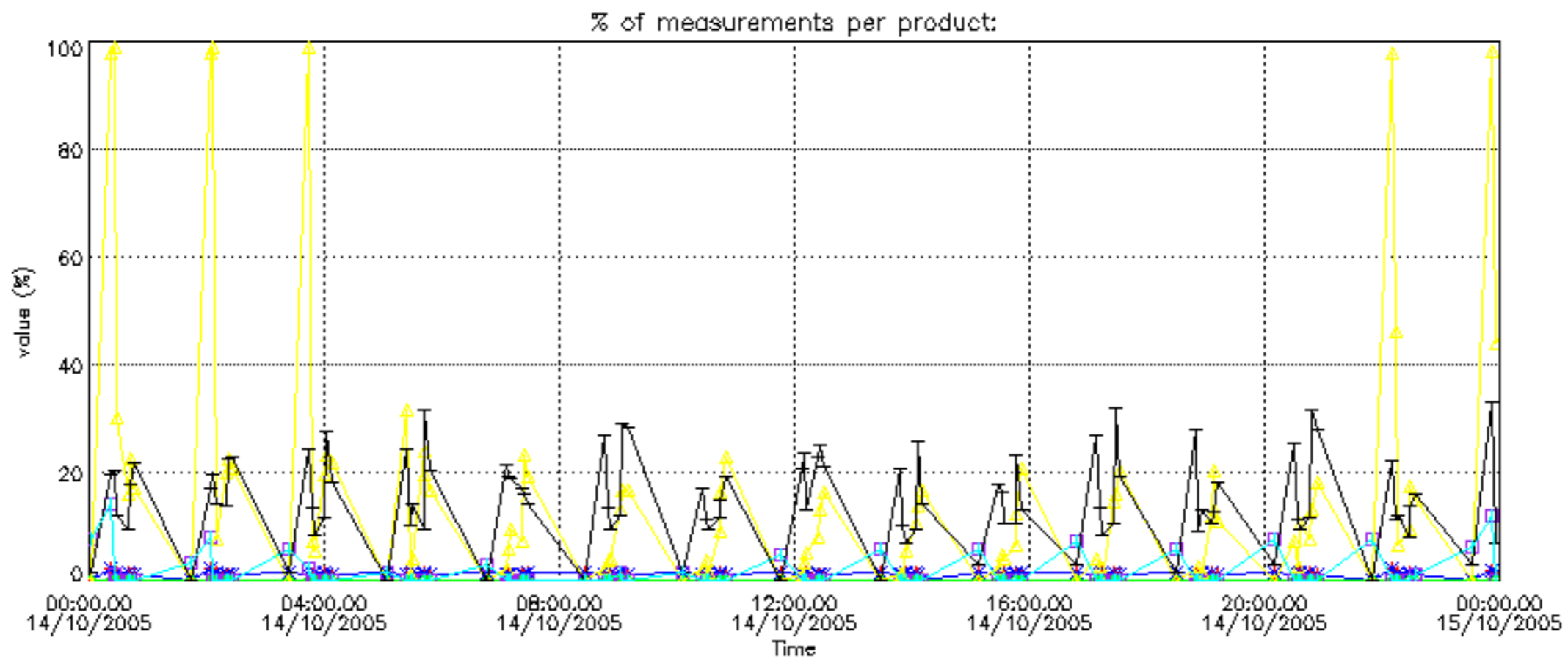


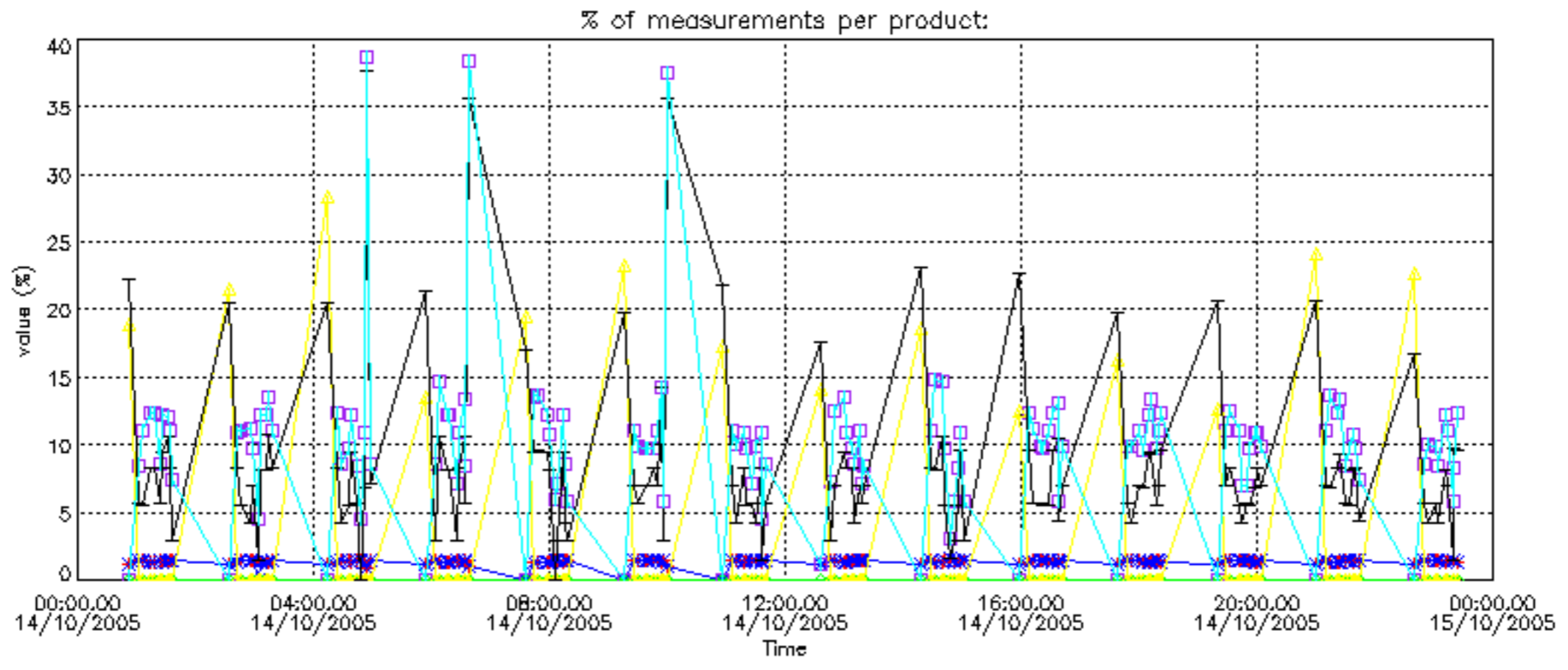
Percentage of flagged data per NO2 profile



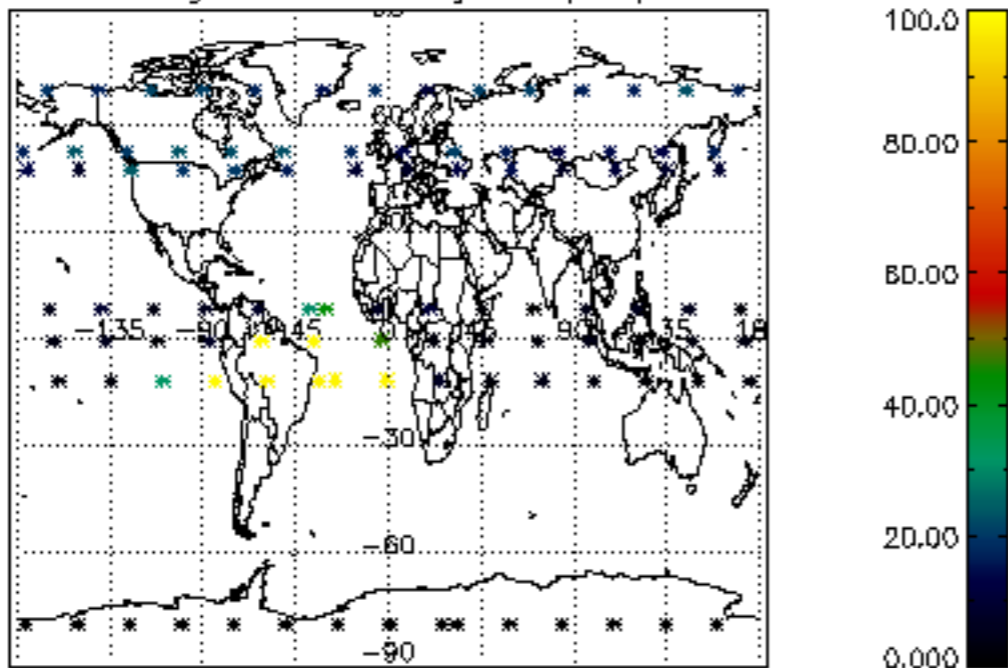
Percentage of flagged data per NO3 profile



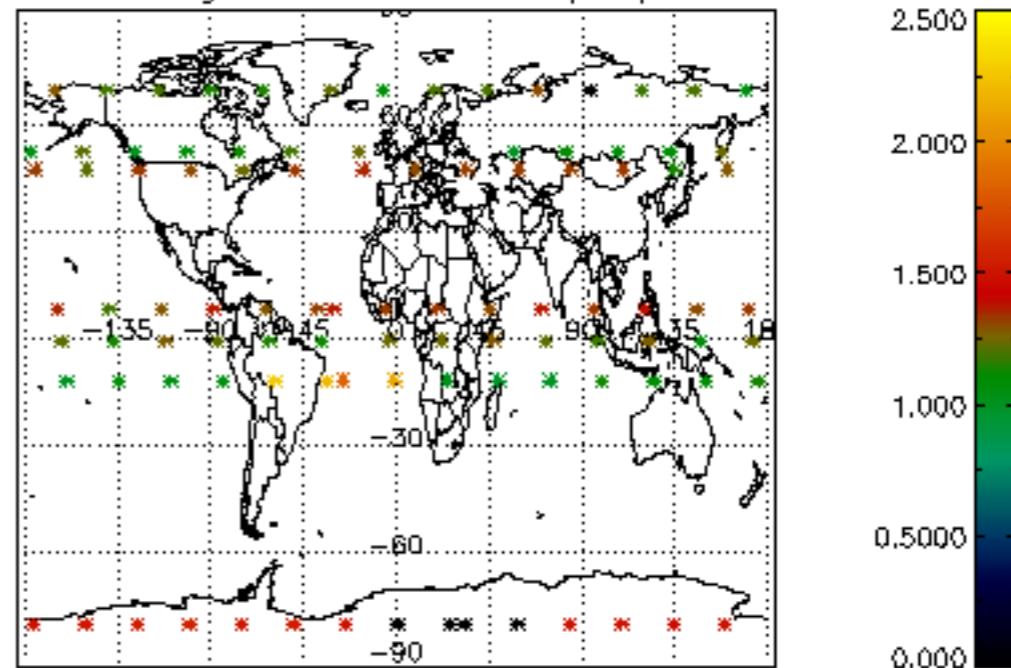




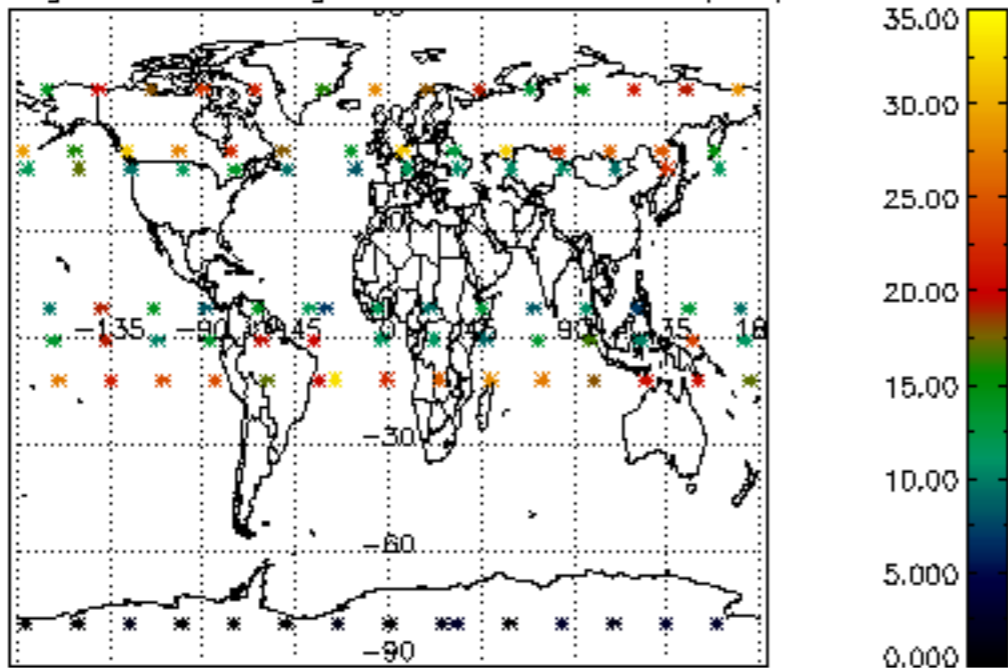
Percentage of cosmic ray hits per profile



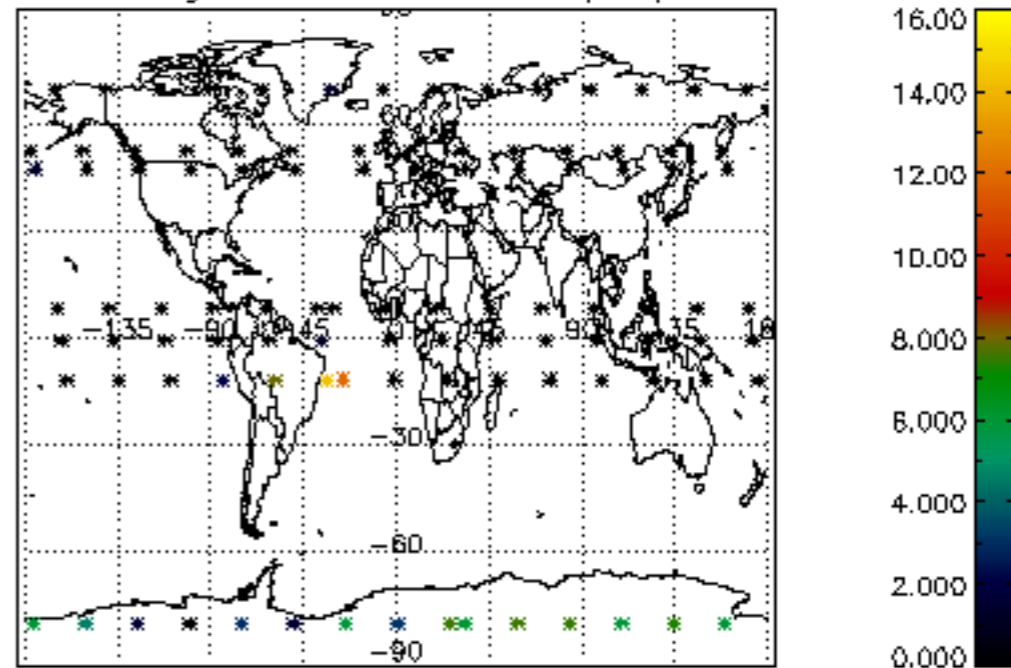
Percentage of datation errors per profile



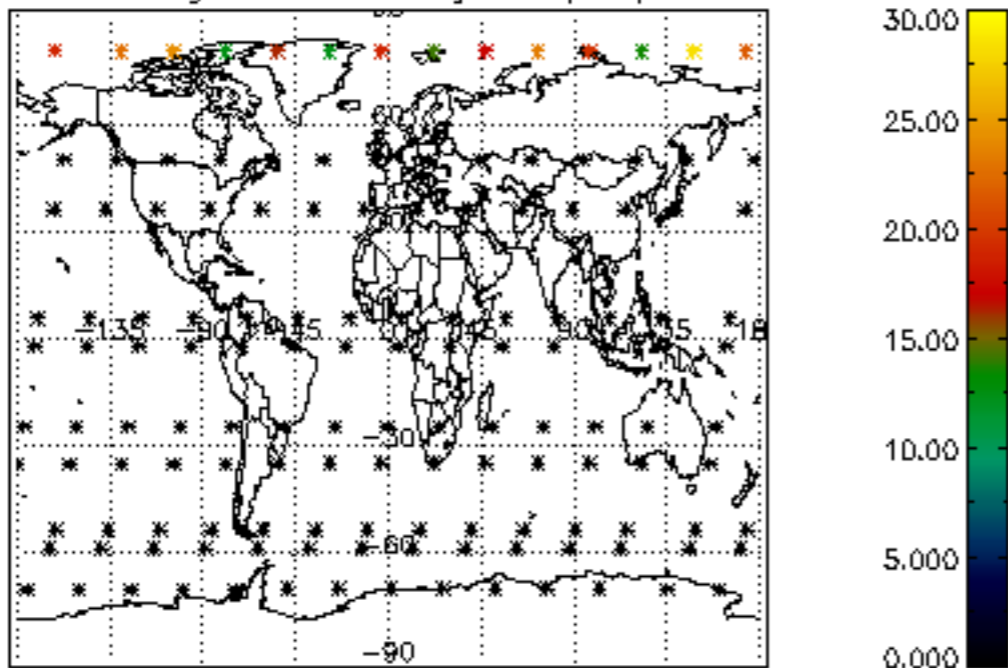
Percentage of star falling outside central band per profile



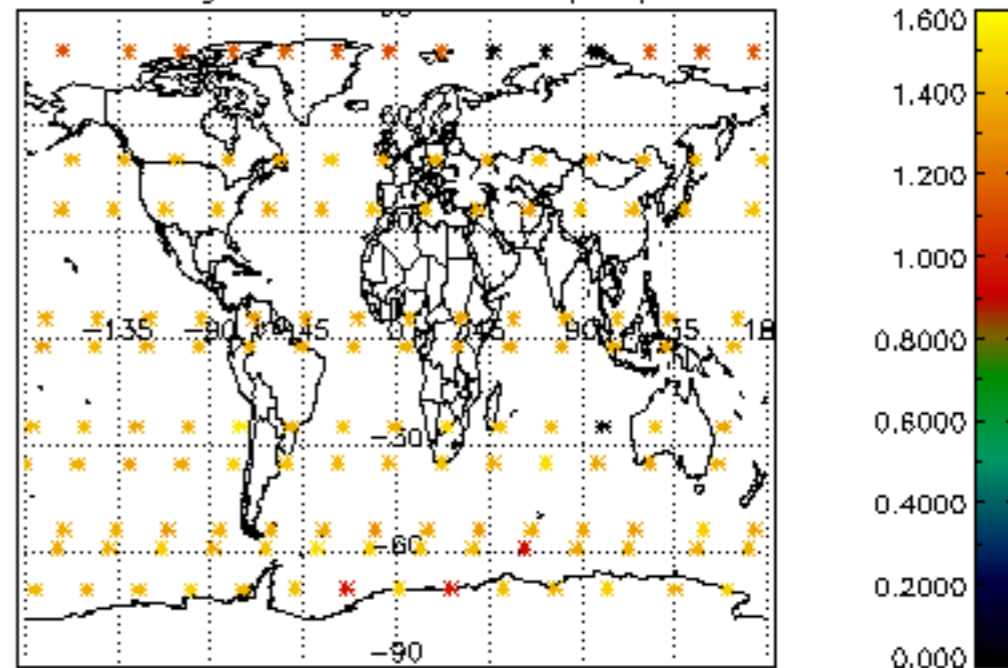
Percentage of saturation errors per profile



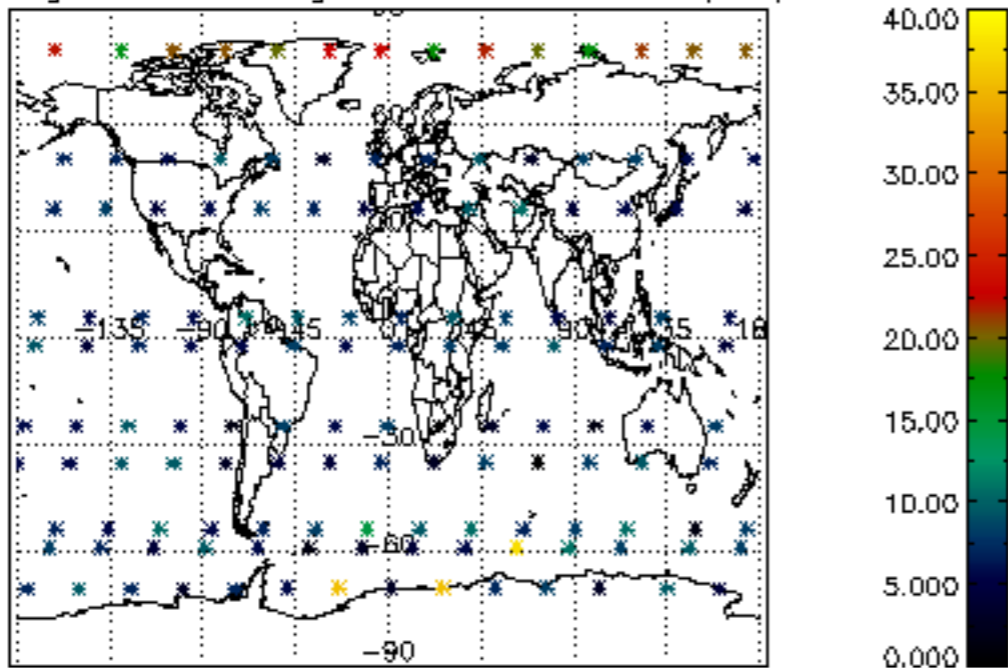
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

