

Urban environment and reservoir host species are associated with *Batrachochytrium dendrobatidis* infection prevalence in the common toad

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Supplement 2

Table S2. *Bd* infection prevalence and associations with environmental variables: urban area (UMZ2000; www.eea.europa.eu), Mature forest (>200m² ha⁻¹), arable land area (crop and fruit farms) and presence of large water bodies at three spatial scales. “Year” indicates sampling years compared to 2015. SE: standard error

	Estimate	SE	z-value	p
500 m: AIC 233.7				
Urban area	-1.170	0.461	-2.540	0.011
Mature forest	-0.758	0.338	-2.243	0.025
Arable land area	-0.093	0.274	-0.339	0.734
Presence of large water bodies	1.967	0.984	2.000	0.046
Presence of <i>Rana arvalis</i>	1.338	0.591	2.264	0.024
Sample day	-0.543	0.310	-1.753	0.080
Year 2016	-0.370	0.708	-0.523	0.601
Year 2017	-0.850	0.780	-1.090	0.276
Year 2018	-1.351	0.937	-1.442	0.149
2000 m: AIC 236.9				
Urban area	-1.269	0.563	-2.253	0.024
Mature forest	-0.572	0.410	-1.393	0.163
Arable land area	-0.480	0.442	-1.086	0.278
Presence of large water bodies	-0.057	0.699	-0.081	0.935
Presence of <i>Rana arvalis</i>	1.899	0.680	2.793	0.005
Sample day	-0.262	0.279	-0.941	0.347
Year 2016	-0.349	0.665	-0.525	0.600
Year 2017	-0.221	0.708	-0.311	0.755
Year 2018	-1.214	0.952	-1.276	0.202
5000 m: AIC 237.1				
Urban area	-1.749	0.639	-2.736	0.006
Mature forest	-0.423	0.345	-1.225	0.220
Arable land area	-1.163	0.547	-2.124	0.034
Presence of large water bodies	-0.851	0.716	-1.188	0.235
Presence of <i>Rana arvalis</i>	1.423	0.551	2.584	0.010
Sample day	-0.400	0.271	-1.478	0.139
Year 2016	-0.260	0.646	-0.403	0.687
Year 2017	-0.695	0.675	-1.030	0.303
Year 2018	-1.985	0.986	-2.013	0.044

Table S3. Occurrence of a potential reservoir host (*Rana arvalis*) and associations with environmental variables: urban area (UMZ2000; www.eea.europa.eu), Mature forest (>200m² ha⁻¹), arable land area (crop and fruit farms) and presence of large water bodies at three spatial scales. “Year” indicates sampling years compared to 2015. SE: standard error

	Estimate	SE	z-value	p
500 m: AIC 54.8				
Urban area	-0.155	3.468	-0.045	0.964
Mature forest	0.232	3.891	0.060	0.952
Arable land area	0.169	2.634	0.064	0.949
Presence of large water bodies	0.872	7.532	0.116	0.908
Year 2016	-0.164	7.130	-0.023	0.982
Year 2017	-32.077	7.023	-4.567	<0.001
Year 2018	-31.245	8.058	-3.877	<0.001
2000 m: AIC 54.8				
Urban area	0.420	3.916	0.107	0.915
Mature forest	-0.047	3.349	-0.014	0.989
Arable land area	0.426	3.744	0.114	0.909
Presence of large water bodies	0.275	5.784	0.047	0.962
Year 2016	-0.077	7.086	-0.011	0.991
Year 2017	-31.481	6.658	-4.728	<0.001
Year 2018	-30.424	7.842	-3.879	<0.001
5000 m: AIC 54.7				
Urban area	-2.176	6.896	-0.316	0.752
Mature forest	-0.862	2.955	-0.292	0.770
Arable land area	-1.169	4.008	-0.292	0.771
Presence of large water bodies	-0.304	6.036	-0.050	0.960
Year 2016	0.212	7.297	0.029	0.977
Year 2017	-32.796	8.267	-3.967	<0.001
Year 2018	-31.620	8.836	-3.578	<0.001

Table S4. Body condition index of *Bufo bufo* males and associations with urban areas (UMZ2000; www.eea.europa.eu) at three spatial scales. Sampling day represent a numeric value throughout the study period (4th April to 19th May). “Year” indicates sampling years compared to 2015. SE: standard error

	Estimate	SE	<i>t</i> -value	p
500 m: AIC 3485.7				
Urban area	-0.500	0.714	-0.700	0.484
Sampling day	0.483	0.562	0.859	0.390
Year 2016	12.507	1.687	7.413	<0.001
Year 2017	12.443	1.851	6.722	<0.001
Year 2018	14.893	2.335	6.379	<0.001
2000 m: AIC 3484.9				
Urban area	-0.802	0.723	-1.110	0.267
Sampling day	0.431	0.562	0.768	0.443
Year 2016	12.506	1.677	7.456	<0.001
Year 2017	12.391	1.807	6.857	<0.001
Year 2018	14.423	2.351	6.135	<0.001
5000 m: AIC 3480.6				
Urban area	-1.613	0.701	-2.301	0.021
Sampling day	0.381	0.537	0.710	0.478
Year 2016	12.936	1.658	7.801	<0.001
Year 2017	12.243	1.722	7.110	<0.001
Year 2018	13.441	2.226	6.037	<0.001

Table S5. Body mass of *Bufo bufo* males and association with *Bd*. Sampling day represent a numeric value throughout the study period (4th April to 19th May). “Year” indicates sampling years compared to 2015. SE: standard error

	Estimate	SE	<i>t</i> -value	p
AIC 3891.3				
<i>Bd</i>	1.740	1.876	0.927	0.354
Sampling day	-1.599	1.063	-1.504	0.133
Year 2016	-4.000	2.781	-1.439	0.150
Year 2017	-2.098	3.321	-0.632	0.528
Year 2018	1.365	4.078	0.335	0.738

Table S6. Body length (snout-vent-length) of *Bufo bufo* males and association with *Bd*. Sampling day represent a numeric value throughout the study period (4th April to 19th May). “Year” indicates sampling years compared to 2015. SE: standard error

AIC 3334.6	Estimate	SE	<i>t</i> -value	<i>p</i>
<i>Bd</i>	2.561	1.132	2.262	0.024
Sampling day	-0.922	0.502	-1.836	0.066
Year 2016	-8.191	1.490	-5.499	<0.001
Year 2017	-7.337	1.605	-4.570	<0.001
Year 2018	-7.136	1.931	-3.695	<0.001

Table S7. Body mass of *Bufo bufo* males and associations with urban areas (UMZ2000; www.eea.europa.eu) at three spatial scales. Sampling day represent a numeric value throughout the study period (4th April to 19th May). “Year” indicates sampling years compared to 2015. SE: standard error

500 m: AIC 3883.5	Estimate	SE	<i>t</i> -value	<i>p</i>
Urban area	-3.864	1.327	-2.913	0.004
Sampling day	-1.902	0.980	-1.941	0.052
Year 2016	-3.696	2.690	-1.374	0.169
Year 2017	-5.341	3.275	-1.631	0.103
Year 2018	-4.432	4.231	-1.047	0.295
2000 m: AIC 3884.7				
Urban area	-3.687	1.377	-2.677	0.007
Sampling day	-1.970	0.996	-1.979	0.048
Year 2016	-3.919	2.703	-1.450	0.147
Year 2017	-4.363	3.236	-1.348	0.178
Year 2018	-4.377	4.350	-1.006	0.314
5000 m: AIC 3883.9				
Urban area	-3.904	1.382	-2.826	0.005
Sampling day	-1.892	0.984	-1.922	0.055
Year 2016	-3.338	2.708	-1.232	0.218
Year 2017	-3.974	3.176	-1.251	0.211
Year 2018	-4.444	4.283	-1.038	0.299

Table S8. Body length (snout-vent-length) of *Bufo bufo* males and associations with urban areas (UMZ2000; www.eea.europa.eu) at three spatial scales. Sampling day represent a numeric value throughout the study period (4th April to 19th May). “Year” indicate sampling years compared to 2015. SE: standard error

	Estimate	SE	<i>t</i> -value	p
500 m: AIC 3332.7				
Urban area	-1.564	0.605	-2.585	0.010
Sampling day	-1.132	0.478	-2.367	0.018
Year 2016	-7.882	1.448	-5.442	<0.001
Year 2017	-8.498	1.576	-5.391	<0.001
Year 2018	-9.344	1.984	-4.709	<0.001
2000 m: AIC 3335.0				
Urban area	-1.324	0.636	-2.080	0.037
Sampling day	-1.131	0.493	-2.294	0.022
Year 2016	-8.039	1.465	-5.486	<0.001
Year 2017	-8.059	1.586	-5.081	<0.001
Year 2018	-9.121	2.067	-4.412	<0.001
5000 m: AIC 3337.0				
Urban area	-1.037	0.664	-1.561	0.119
Sampling day	-1.056	0.501	-2.110	0.035
Year 2016	-7.871	1.498	-5.256	<0.001
Year 2017	-7.747	1.602	-4.837	<0.001
Year 2018	-8.598	2.095	-4.104	<0.001