

Supplementary material (available exclusively online) for the following paper:

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**Winter activity of *Podarcis muralis* (Laurenti, 1768) and *P. erhardii* (Bedriaga, 1876)
in urban and suburban habitats in the city of Blagoevgrad, Bulgaria**

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Table 1. *Podarcis muralis* – Data gathered during the winters of 2015–2017.

Date of observation	Time of observation	Number of individuals observed	Age groups			Behaviour locomotor activity (la), basking (b)	Flattened body while basking	Environmental conditions	Temperature at the time of observation, °C		Minimum night/morning temperature °C
			Ad.	Subad.	Juv.				Air temperature	Substrate surface temperature	
Winter 2015 - 2016											
29.12.2015	2:30 p.m.	14	+	+	+	la and b	+	sunny	11	28	-2.5
09.01.2016	4:30 p.m.	2	+	-	-	b	+	sunny	14	19	-1.5
11.01.2016	12:30 p.m.	13	+	+	+	la and b	+	sunny	17	22.5	4
13.01.2016	4:00 p.m.	29	+	+	+	la and b	+	sunny	10	24	2
14.01.2016	2:30 p.m.	47	+	+	+	la and b	+	sunny	10.5	31	-1
19.01.2016	4:45 p.m.	0	-	-	-	-	-	sunny	0	9	-11
21.01.2016	2:30 p.m.	3	+	-	-	b	+	sunny	-1	21.5	-12.5
22.01.2016	3:00 p.m.	7	+	+	-	b	+	sunny with light wind	-0.5	24.5	-8.5
23.01.2016	2:20 p.m.	1	-	+	-	b	+	sunny	-4	23	-14.5
24.01.2016	1:15 p.m.	0	-	-	-	-	-	partly cloudy	-6.5	9	-16
25.01.2016	12:30 p.m.	0	-	-	-	-	-	sunny	0	14.5	-7.5
27.01.2016	1:45 p.m.	0	-	-	-	-	-	sunny	8	29.5	-0.5
30.01.2016	2:00 p.m.	23	+	+	+	la and b	+	sunny	13	31.5	0
03.02.2016	1:30 p.m.	33	+	+	+	mostly la and less b	-	sunny with light wind	20.5	32.5	5.5
06.02.2016	1:50 p.m.	46	+	+	+	la and b	+	sunny with light wind	6.5	25.5	-1
08.02.2016	1:45 p.m.	39	+	+	+	la and b	+	sunny with light wind	10.5	28.5	-3
14.02.2016	2:30 p.m.	27	+	+	+	b	+	sunny with moderate wind	18	20.5	5.5
15.02.2016	2:30 p.m.	58	+	+	+	mostly la and less b	+	sunny with moderate wind	20.5	30.5	13
Winter 2016 - 2017											
03.12.2016	2:05 p.m.	34	+	+	+	la and b	+	sunny	7.5	29.5	-1
04.12.2016	2:15 p.m.	8	+	+	+	b	+	sunny	3.5	21	-6
05.12.2016	2:45 p.m.	40	+	+	+	la and b	+	sunny	6.5	29.5	-3.5
06.12.2016	2:30 p.m.	18	+	+	+	b	+	partly cloudy	7.5	23	2
08.12.2016	3:00 p.m.	6	+	+	+	b	+	sunny	4.5	24.5	-6.5
09.12.2016	3:30 p.m.	11	+	+	+	b	+	sunny	7	25.5	-5.5
10.12.2016	2:00 p.m.	21	+	+	+	la and b	+	sunny	11	29.5	-4
10.12.2016	4:00 p.m.	9	+	+	+	b	+	sunny	12.5	27	-4

11.12.2016	1:40 p.m.	18	+	+	+	la and b	+	sunny	9	30	-3
12.12.2016	1:00 p.m.	3	+	-	-	b	+	sunny with strong wind	9.5	14.5	-2
13.12.2016	2:15 p.m.	11	+	+	+	b	+	sunny with light wind	3	25	-4
14.12.2016	1:45 p.m.	9	+	+	+	b	+	sunny	2.5	22	-8.5
16.12.2016	3:00 p.m.	7	+	-	-	b	+	sunny	5.5	21.5	-0.5
17.12.2016	1:30 p.m.	10	+	+	+	b	+	sunny	2	27	-6
18.12.2016	2:00 p.m.	3	-	+	+	b	+	partly cloudy	3.5	20.5	-8
19.12.2016	12:45 p.m.	7	+	+	+	b	+	sunny	1	27.5	-8
20.12.2016	1:30 p.m.	8	+	+	+	b	+	sunny	3	28	-8
21.12.2016	2:00 p.m.	11	+	+	+	b	+	sunny with moderate wind	4.5	26.5	-4.5
23.12.2016	12:45 p.m.	6	+	+	+	b	+	sunny	8	23	-4
24.12.2016	1:30 p.m.	7	+	+	+	b	+	sunny	2.5	24.5	-6.5
29.12.2016	1:45 p.m.	2	+	-	-	b	+	sunny with strong wind	2	15.5	-2
02.01.2017	1:30 p.m.	0	-	-	-	-	-	sunny	0	21	-9
03.01.2017	1:30 p.m.	0	-	-	-	-	-	sunny	2.5	17	-8.5
28.01.2017	2:00 p.m.	1	-	-	+	b	+	sunny	1.5	22	-10.5
30.01.2017	1:30 p.m.	1	+	-	-	b	+	sunny with light wind	3	19.5	-6.5
01.02.2017	3:15 p.m.	5	+	-	-	b	+	sunny	9	28.5	-1.5
02.02.2017	3:00 p.m.	14	+	+	+	la and b	+	sunny	9.5	31	-4
03.02.2017	4:00 p.m.	18	+	+	+	la and b	+	sunny	14	23.5	1.5
05.02.2017	4:00 p.m.	33	+	+	+	mostly la and less b	+	partly cloudy	16.5	23	5.5
09.02.2017	2:45 p.m.	33	+	+	+	la and b	+	sunny	9.5	22.5	2
14.02.2017	4:30 p.m.	36	+	+	+	la and b	+	sunny	7	29.5	-6
27.02.2017	3:00 p.m.	47	+	+	+	la and b	+	sunny	15.5	32	6

Table 2: *Podarcis erhardii* – Data gathered during the winters of 2015–2017.

Date of observation	Time of observation	Number of individuals observed	Age groups			Behaviour locomotor activity (la), basking (b), fight between two males (f)	Flattened body while basking	Environmental conditions	Temperature at the time of observation, °C		Minimum night/morning temperature, °C
			Ad.	Subad.	Juv.				Air temperature	Substrate surface temperature	
Winter 2015 - 2016											
13.12.2015	12:20 p.m.	3	+	-	-	la and b	1	sunny	5	26	-4.5
24.12.2015	3:00 p.m.	1	+	-	-	b	-	sunny	9.5	32	-1
26.12.2015	2:00 p.m.	1	+	-	-	la	-	sunny	8.5	29.5	-1.5
29.12.2015	1:15 p.m.	4	+	-	-	la and f	-	sunny	8	29	-2.5
09.01.2016	2:30 p.m.	0	-	-	-	-	-	cloudy	12	8	-1.5
11.01.2016	11:50 a.m.	2	+	-	-	b	-	sunny	15	26	4
13.01.2016	3:00 p.m.	2	+	-	-	b	-	sunny	8	17.5	2
14.01.2016	4:00 p.m.	2	+	-	-	b	-	sunny	8.5	27.5	-1
22.01.2016	2:30 p.m.	0	-	-	-	-	-	sunny	-2.5	22.5	-8.5
23.01.2016	3:00 p.m.	0	-	-	-	-	-	sunny	-6.5	21	-14.5
30.01.2016	3:15 p.m.	7	+	-	-	la and b	1	sunny	12	32.5	0

03.02.2016	1:50 p.m.	6	+	-	-	la and f	-	sunny with light wind	19.5	35.5	5.5
06.02.2016	2:40 p.m.	4	+	-	-	la, b and f	-	sunny	4.5	28	-1
08.02.2016	2:15 p.m.	3	+	-	1	la and b	-	sunny with light wind	9	29.5	-3
14.02.2016	1:30 p.m.	7	+	1	-	la and b	-	sunny with moderate wind	17	26.5	5.5
15.02.2016	1:45 p.m.	12	+	2	2	la and f	-	sunny with moderate wind	18	32.5	13
Winter 2016 - 2017											
03.12.2016	1:35 p.m.	5	+	-	1	b	-	sunny	5	31	-1
04.12.2016	1:45 p.m.	1	+	-	-	b	-	sunny	1.5	21	-6
05.12.2016	2:15 p.m.	2	+	-	-	b	-	sunny	4	29	-3.5
06.12.2016	2:00 p.m.	1	+	-	-	b	-	partly cloudy	5.5	25.5	-2
08.12.2016	2:30 p.m.	0	-	-	-	-	-	sunny	2	22	-6.5
09.12.2016	3:00 p.m.	0	-	-	-	-	-	sunny	6	26	-5.5
10.12.2016	1:30 p.m.	2	+	-	1	la	-	sunny	9.5	34.5	-4
11.12.2016	1:20 p.m.	1	+	-	-	b	-	sunny	7.5	30	-3
12.12.2016	12:05 p.m.	2	+	-	-	b	-	sunny with moderate wind	8	31.5	-2
13.12.2016	1:45 p.m.	2	+	-	-	b	-	sunny with light wind	1	33	-4
14.12.2016	1:15 p.m.	1	+	-	-	b	-	sunny	0.5	34	-8.5
16.12.2016	2:30 p.m.	0	-	-	-	-	-	partly cloudy	4	30	-0.5
17.12.2016	1:00 p.m.	0	-	-	-	-	-	sunny	-0.5	32	-6
18.12.2016	1:30 p.m.	0	-	-	-	-	-	partly cloudy	1.5	23	-8
19.12.2016	12:15 p.m.	0	-	-	-	-	-	sunny	-1	35.5	-8
20.12.2016	1:00 p.m.	1	+	-	-	la	-	sunny	2.5	41	-8
21.12.2016	1:30 p.m.	1	+	-	-	b	-	sunny	3	41	-4.5
23.12.2016	12:15 p.m.	0	-	-	-	-	-	sunny	6.5	40	-4
24.12.2016	1:00 p.m.	0	-	-	-	-	-	sunny	0.5	33	-6.5
29.12.2016	1:15 p.m.	0	-	-	-	-	-	sunny	0	25.5	-2
02.01.2017	1:00 p.m.	0	-	-	-	-	-	sunny	-1	30	-9
03.01.2017	1:00 p.m.	0	-	-	-	-	-	sunny	1	31.5	-8.5
15.01.2017	1:30 p.m.	0	-	-	-	-	-	sunny	-0.5	23	-4
28.01.2017	1:30 p.m.	0	-	-	-	-	-	sunny	-0.5	29	-10.5
30.01.2017	2:00 p.m.	0	-	-	-	-	-	sunny	0.5	29.5	-6.5
01.02.2017	2:45 p.m.	1	+	-	-	b	-	sunny	6.5	33.5	-1.5
02.02.2017	2:30 p.m.	4	+	1	-	la and b	-	sunny	7	34	-4
03.02.2017	3:30 p.m.	3	+	-	1	b	-	sunny	11	27	1.5
05.02.2017	3:30 p.m.	3	+	-	-	b	-	partly cloudy	13	13	5.5
09.02.2017	2:15 p.m.	3	+	1	-	b	-	sunny	8.5	26.5	2
14.02.2017	4:00 p.m.	2	+	1	-	b	-	sunny	4.5	32	-6
27.02.2017	2:30 p.m.	3	+	-	-	la	-	sunny	13.5	35	6



Figure S1. A pair of *Podarcis muralis* basking on the stone wall in Site 1 on February 6, 2016.



Figure S2. An adult male *Podarcis erhardii* basking on the rock scarp in Site 2 on February 6, 2016.