

Supplementary Information

Otter diet and prey selection in a recently recolonized area assessed using microscope analysis and DNA barcoding

F. Marcolin, F. Iordan, E. Pizzul, A. Pallavicini, V. Torboli, C. Manfrin, L. Quaglietta

Figure S1: Distribution of suitable bridges and electrofishing sampling sites in the study area. The suitable bridges are categorized by the presence/absence (green and red dots, respectively) of spraints collected under them (at least one spraint). The three sampling sites in the three lakes represent surveys performed along the lakes banks

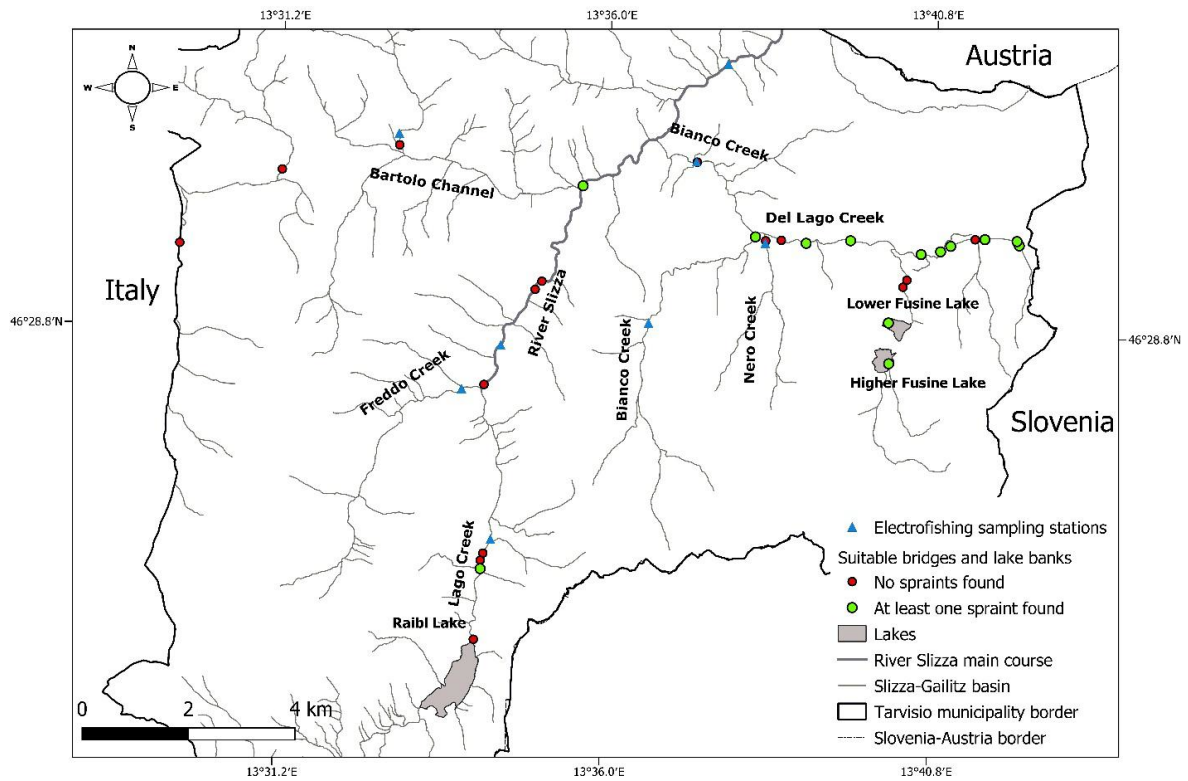


Table S2: Number of fish (N = 315) individuals provided by electrofishing. For salmonids, size classes are of 25 mm each, while for the European bullhead, size classes are of 10 mm each

Size class (mm)	Brown trout (N = 259)	Arctic char (N = 28)	Size class (mm)	European bullhead (N = 28)
51–75	41	0	61–70	1
76–100	2	0	71–80	1
101–125	10	0	81–90	1
126–150	58	0	91–100	4
151–175	33	0	101–110	8
176–200	25	0	111–120	9
201–225	36	19	121–130	3
226–250	42	9	131–140	1
251–275	12	0	-	-

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Table S3: Number of reads assigned (100 and 99% of identity) per each spraints (N = 50) and each taxon. The number of reads not assigned are at 99% of identity

Spraint	Reads per spraint				Total	Not assigned
	Salmoninae	<i>Salmo trutta</i>	Batrachia	Emydidae		
1	898	23	0	0	921	528
2	162	10	0	0	172	1687
3	3431	144	0	0	3575	1846
4	2031	89	1	0	2121	342
5	1140	40	0	0	1180	1088
6	3155	131	0	0	3286	4658
7	724	30	0	0	754	63
8	1955	85	0	0	2040	122
9	391	29	0	0	420	4564
10	5401	219	11	2	5633	389
11	7645	351	0	0	7996	355
12	3647	144	0	0	3791	586
13	1126	42	0	0	1168	35
14	826	42	66	0	934	5932
15	9249	402	0	11	9662	873
16	4104	174	0	2	4280	1646
17	4695	167	36	4	4902	3245
18	3316	134	0	3	3453	3920
19	5485	246	0	1	5732	319
20	12 718	539	0	5	13 262	2581
21	7031	297	134	7	7469	2497
22	1439	66	24	0	1529	4326
23	4779	191	0	4	4974	1749
24	6259	205	0	7	6471	330
25	1666	79	0	0	1745	183
26	799	36	0	0	835	2349
27	6564	292	50	9	6915	1353
28	203	12	0	0	215	5503
29	5148	213	25	3	5389	655
30	4824	197	1	3	5025	471
31	12 347	558	0	3	12 908	451
32	3911	188	1	1	4101	95
33	193	7	0	0	200	7579
34	1611	76	0	0	1687	88
35	3894	175	0	2	4071	175
36	482	22	24	0	528	1207
37	2011	82	9	1	2103	690
38	1282	57	0	0	1339	189
39	3735	154	0	1	3890	164
40	1389	84	0	1	1474	338
41	9395	423	0	5	9823	370
42	47	2	0	0	49	63
43	3621	152	41	2	3816	290
44	3543	154	0	2	3699	2279
45	95	9	0	0	104	81
46	873	48	14	5	940	992
47	2064	87	1	2	2154	4348
48	6	0	0	0	6	1104
49	2461	89	0	0	2550	1024
50	2207	109	0	0	2316	80
Total	165 978	7105	438	86	173 607	75 802

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Table S4: Comparison of results with both methods. B = taxon found only with DNA barcoding; M = taxon found only with microscope; M/B = taxon found by both methods. “-“ = taxon not found by both methods. B. trout = brown trout, E. bullhead = European bullhead, C. frog = common frog

Spraint	Salmonids	Amphibians	Emydidae	B. Trout	C. Frog	E. Bullhead	Crayfish
1	M/B	-	-	B	-	-	-
2	M/B	-	B	B	-	-	-
3	M/B	M/B	B	B	-	-	-
4	M/B	-	-	B	-	-	-
5	M/B	M/B	-	B	M	-	-
6	M/B	M/B	B	B	-	-	-
7	M/B	M	-	B	M	M	-
8	M/B	-	B	B	-	-	-
9	M/B	M	B	B	-	-	M
10	M/B	M/B	B	B	-	-	-
11	M/B	M	-	B	-	-	-
12	M/B	M	B	B	-	-	-
13	M/B	-	B	B	-	M	-
14	M/B	B	B	B	-	M	-
15	M/B	M	-	B	-	M	-
16	M/B	M/B	B	B	-	-	-
17	M/B	-	-	B	-	-	-
18	M/B	-	-	B	-	-	-
19	M/B	-	B	B	-	M	-
20	M/B	M	-	B	-	M	-
21	M/B	M/B	-	B	-	-	-
22	M/B	-	B	B	-	M	-
23	M/B	M	-	B	-	-	-
24	M/B	-	-	B	-	-	M
25	M/B	M	B	B	-	-	-
26	M/B	B	-	B	-	M	-
27	M/B	M/B	B	B	-	-	-
28	M/B	B	B	B	-	-	-
29	M/B	-	B	B	-	-	-
30	M/B	B	B	B	-	-	-
31	M/B	-	-	B	-	-	-
32	M/B	-	-	B	-	M	-
33	M/B	M	-	B	-	M	-
34	M/B	-	-	B	-	-	-
35	M/B	M/B	B	B	-	-	-
36	M/B	-	-	B	-	M	-
37	M/B	M/B	B	B	-	M	-
38	M/B	B	B	B	-	-	-
39	M/B	-	B	B	-	M	-
40	M/B	-	-	B	-	M	-
41	M/B	M/B	-	B	-	-	-
42	M/B	-	-	B	-	M	-
43	M/B	-	B	B	-	M	-
44	M/B	M	B	B	-	-	-
45	M/B	-	-	B	-	-	-
46	M/B	-	-	B	-	-	-
47	M/B	-	B	B	-	-	-
48	B	M	-	-	-	-	-
49	M/B	-	-	B	-	-	-
50	M/B	-	-	B	-	-	-