

Earthquake-Related Changes in Species Spatial Niche Overlaps in Spring Communities

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Supplementary Information

Table S1.

Number of individuals found at the TS sampling stations (TS1 through TS8) in 1997.

Number of individuals as totals found at each site during a complete hydrological year (n=32).

Species name	Dependence on groundwater*	Sampled springs							
		TS1	TS2	TS3	TS4	TS5	TS6	TS7	TS8
<i>Attheyella crassa</i> (Sars G.O., 1863)	nSB	0	2	0	2	2	0	0	2
<i>Bryocamptus echinatus</i> (Mrázek, 1893)	nSB	8	10	19	8	42	0	0	16
<i>Bryocamptus pygmaeus</i> (Sars G.O., 1863)	nSB	0	0	57	2	1	1	0	2
<i>Bryocamptus typhlops</i> (Mrázek, 1893)	nSB	3	0	1	1	30	2	4	7
<i>Bryocamptus zschokkei</i> (Schmeil, 1893)	nSB	0	2	3	7	0	0	1	3
<i>Diacyclops paolae</i> Pesce & Galassi, 1987	SB	1	1	133	10	6	0	9	18
<i>Diacyclops italianus</i> (Kiefer, 1931)	SB	1	0	1	0	0	0	0	0
<i>Elaphoidella mabelae</i> Galassi & Pesce, 1991	SB	0	0	0	0	8	0	0	10
<i>Epactophanes richardi</i> Mrázek, 1893	nSB	0	0	0	0	0	0	1	0
<i>Eucyclops serrulatus</i> (Fischer, 1851)	nSB	0	2	8	1	4	0	0	0
<i>Moraria poppei meridionalis</i> Chappuis, 1929	nSB	0	0	0	0	0	0	6	0
<i>Moraria varica</i> (Graeter, 1911)	nSB	0	0	0	1	0	0	0	0
<i>Nitokra hibernica</i> (Brady, 1880)	nSB	0	0	1	1	0	0	0	0
<i>Nitocrella kunzi</i> Galassi & De Laurentiis, 1997	SB	0	1	0	0	0	2	6	0
<i>Nitocrella pescei</i> Galassi & De Laurentiis, 1997	SB	145	31	13	6	0	20	21	91
<i>Paracyclops fimbriatus</i> (Fischer, 1853)	nSB	0	3	7	0	2	0	2	34
<i>Stammericarís lorenzae</i> (Pesce, Galassi & Cottarelli, 1995)	SB	0	1	2	10	13	1	6	2
<i>Pseudectinosoma reductum</i> Galassi & De Laurentiis, 1997	SB	0	0	1	0	0	0	0	0
<i>Pesceus schmeili</i> (Mrázek, 1893)	nSB	0	2	0	60	21	0	15	0
<i>Parapseudoleptomesochra italica</i> Pesce & Petkovski, 1980	SB	0	0	5	1	0	0	0	2
<i>Simplicaris lethaea</i> Galassi & De Laurentiis, 2004	SB	0	0	0	0	1	4	0	0

*nSB indicates non-stygobiotic species, SB indicates stygobiotic species

Table S2.

Number of individuals found at the TS sampling stations (TS1 through TS8) in 2005.

Number of individuals as totals found at each site during a complete hydrological year (n=32).

Species name	Dependence on groundwater*	Sampled springs							
		TS1	TS2	TS3	TS4	TS5	TS6	TS7	TS8
<i>Attheyella crassa</i> (Sars G.O., 1863)	nSB	1	0	13	1	9	0	23	7
<i>Bryocamptus echinatus</i> (Mrázek, 1893)	nSB	3	34	31	12	52	2	17	22
<i>Bryocamptus minutus</i> (Claus, 1863)	nSB	0	0	0	0	0	0	0	4
<i>Bryocamptus pygmaeus</i> (Sars G.O., 1863)	nSB	4	0	18	0	11	14	2	0
<i>Bryocamptus typhlops</i> (Mrázek, 1893)	nSB	1	2	140	1	110	0	30	0
<i>Bryocamptus zschokkei</i> (Schmeil, 1893)	nSB	0	0	4	1	12	0	1	0
<i>Diacyclops paolae</i> Pesce & Galassi, 1987	SB	3	0	18	2	9	1	48	12
<i>Elaphoidella mabelae</i> Galassi & Pesce, 1991	SB	0	0	4	0	3	0	36	0
<i>Epactophanes richardi</i> Mrázek, 1893	nSB	0	0	0	1	0	0	3	0
<i>Eucyclops serrulatus</i> (Fischer, 1851)	nSB	3	0	2	4	13	0	9	0
<i>Moraria poppei meridionalis</i> Chappuis, 1929	nSB	1	0	3	3	18	0	437	0
<i>Moraria varica</i> (Graeter, 1911)	nSB	0	1	1	0	1	0	0	0
<i>Nitokra hibernica</i> (Brady, 1880)	nSB	0	1	0	0	5	0	0	0
<i>Nitocrella kunzi</i> Galassi & De Laurentiis, 1997	SB	0	1	1	0	0	0	0	0
<i>Nitocrella pescei</i> Galassi & De Laurentiis, 1997	SB	54	151	41	62	3	99	3	185
<i>Paracyclops fimbriatus</i> (Fischer, 1853)	nSB	1	0	1	0	5	0	6	17
<i>Stammericaris lorenzae</i> (Pesce, Galassi & Cottarelli, 1995)	SB	0	14	6	16	16	17	147	0
<i>Pseudectinosoma reductum</i> Galassi & De Laurentiis, 1997	SB	0	0	0	2	0	0	0	0
<i>Pesceus schmeili</i> (Mrázek, 1893)	nSB	2	7	17	38	274	0	333	0
<i>Parapseudoleptomesochra italica</i> Pesce & Petkovski, 1980	SB	4	0	2	0	0	0	0	0
<i>Simplicaris lethaea</i> Galassi & De Laurentiis, 2004	SB	0	0	0	0	0	1	0	0

*nSB indicates non-stygobiotic species, SB indicates stygobiotic species

Table S3.

Number of individuals found at the TS sampling stations (TS1 through TS8) in 2012.

Number of individuals as totals found at each site during a complete hydrological year (n=32).

Species name	Dependence on groundwater*	Sampled springs							
		TS1	TS2	TS3	TS4	TS5	TS6	TS7	TS8
<i>Attheyella crassa</i> (Sars G.O., 1863)	nSB	0	14	26	2	0	0	0	0
<i>Bryocamptus echinatus</i> (Mrázek, 1893)	nSB	2	96	85	26	3	10	2	3
<i>Bryocamptus pygmaeus</i> (Sars G.O., 1863)	nSB	0	0	9	3	0	3	1	0
<i>Bryocamptus typhlops</i> (Mrázek, 1893)	nSB	0	58	71	54	0	0	0	0
<i>Bryocamptus zschokkei</i> (Schmeil, 1893)	nSB	0	1	23	1	0	1	7	0
<i>Diacyclops paolae</i> Pesce & Galassi, 1987	SB	0	4	16	6	4	1	1	1
<i>Elaphoidella mabelae</i> Galassi & Pesce, 1991	SB	1	22	11	6	1	0	0	1
<i>Eucyclops serrulatus</i> (Fischer, 1851)	nSB	0	59	13	3	0	5	1	1
<i>Moraria poppei meridionalis</i> Chappuis, 1929	nSB	0	2	26	9	0	0	0	0
<i>Moraria varica</i> (Graeter, 1911)	nSB	0	0	2	1	0	0	0	0
<i>Nitokra hibernica</i> (Brady, 1880)	nSB	0	4	9	5	3	2	0	0
<i>Nitocrella kunzi</i> Galassi & De Laurentiis, 1997	SB	0	0	0	2	0	0	0	0
<i>Nitocrella pescei</i> Galassi & De Laurentiis, 1997	SB	9	28	7	24	0	2	5	11
<i>Paracyclops fimbriatus</i> (Fischer, 1853)	nSB	0	1	1	0	2	0	0	0
<i>Stammericaris lorenzae</i> (Pesce, Galassi & Cottarelli, 1995)	SB	0	5	4	5	3	0	3	0
<i>Pesceus schmeili</i> (Mrázek, 1893)	nSB	0	38	16	17	0	0	1	0
<i>Parapseudoleptomesochra italica</i> Pesce & Petkovski, 1980	SB	0	2	1	0	0	0	0	0
<i>Simplicaris lethaea</i> Galassi & De Laurentiis, 2004	SB	0	0	0	0	0	1	1	0

*nSB indicates non-stygobiotic species, SB indicates stygobiotic species