

<i>Argynnis paphia</i>	1	1	0	0	1	0	0	0	0
<i>Aricia cramera</i>	0	0	1	1	1	1	1	1	0
<i>Brintesia circe</i>	1	1	0	1	1	1	1	1	0
<i>Celastrina argiolus</i>	1	1	0	1	1	1	1	1	1
<i>Charaxes jasius</i>	0	0	1	0	0	0	0	0	0
<i>Coenonympha dorus</i>	0	0	0	0	1	0	0	0	0
<i>Coenonympha pamphilus</i>	1	1	0	0	0	0	1	0	0
<i>Colias crocea</i>	1	1	1	1	1	1	1	1	1
<i>Cyaniris semiargus</i>	0	0	0	0	1	1	0	1	0
<i>Euphydryas aurinia</i>	0	0	0	0	0	1	0	0	0
<i>Fabriciana adippe</i>	1	1	0	1	1	0	1	0	1
<i>Glaucopsyche melanops</i>	0	0	0	1	0	0	0	0	0
<i>Gonepteryx rhamni</i>	1	1	1	1	1	1	1	0	1
<i>Hesperia comma</i>	1	1	0	1	1	0	1	1	0
<i>Hipparchia fidia</i>	0	1	0	0	1	1	0	0	0
<i>Hipparchia hermione</i>	1	1	0	1	1	1	1	1	0
<i>Hipparchia semele</i>	1	1	1	1	1	1	0	0	0
<i>Hipparchia statilinus</i>	0	0	0	0	1	1	1	0	0
<i>Hyponephele lycaon</i>	0	1	0	0	1	0	1	1	0
<i>Iphiclides feisthamelii</i>	0	0	1	0	1	1	0	0	0
<i>Issoria lathonia</i>	0	0	0	0	1	0	1	1	1
<i>Laeosopis roboris</i>	1	1	1	0	0	0	0	0	0
<i>Lampides boeticus</i>	0	0	0	0	1	0	1	0	0
<i>Lasiommata megera</i>	1	1	1	1	1	1	0	1	0
<i>Leptidea sinapis</i>	1	1	1	1	1	1	1	0	0
<i>Leptotes pirithous</i>	1	1	1	1	1	1	1	1	0
<i>Limenitis reducta</i>	1	1	1	1	0	0	0	0	0

Table S3. (continued). Butterfly species occurrence (1=present; 0=not observed) at study sites on the margins of different mountain streams (A- Fervença, B - Caniça and C- Loriga) and elevation levels (500m, 1000m and 1500m). Butterfly species are listed alphabetically.

Elevation (m)	500	500	500	1000	1000	1000	1500	1500	1500
Mountain stream	A	B	C	A	B	C	A	B	C
Butterfly species									
<i>Lycaena alciphron</i>	1	0	1	1	1	0	0	0	1
<i>Lycaena bleusei</i>	0	0	1	0	1	0	0	0	0
<i>Lycaena phlaeas</i>	1	1	1	1	1	1	1	0	1
<i>Lycaena tityrus</i>	0	0	1	0	1	0	0	0	0
<i>Maniola jurtina</i>	0	0	1	1	1	1	0	0	0
<i>Melanargia lachesis</i>	1	1	1	1	1	1	1	1	1
<i>Melanargia occitanica</i>	0	0	0	0	1	0	0	0	0
<i>Melanargia russiae</i>	0	0	0	0	1	0	0	0	0

<i>Melitaea deione</i>	1	1	1	1	1	1	0	0	0
<i>Melitaea nevadensis</i>	1	0	0	1	1	1	1	1	0
<i>Melitaea parthenoides</i>	0	0	1	0	0	1	0	0	0
<i>Melitaea phoebe</i>	0	0	0	0	1	1	0	0	0
<i>Melitaea trivia</i>	0	0	0	0	1	1	0	0	0
<i>Nymphalis antiopa</i>	0	1	1	1	0	0	0	0	1
<i>Ochlodes sylvanus</i>	1	1	0	0	1	0	0	0	0
<i>Pararge aegeria</i>	1	1	1	1	1	1	1	0	1
<i>Pieris brassicae</i>	1	1	1	1	1	1	0	0	0
<i>Pieris napi</i>	1	1	1	1	1	1	0	0	0
<i>Pieris rapae</i>	1	1	1	1	1	1	1	1	1
<i>Plebejus argus</i>	0	0	0	1	1	0	1	1	1
<i>Polygonia c-album</i>	1	1	0	0	0	0	0	0	0
<i>Polyommatus icarus</i>	1	1	1	1	1	0	1	0	0
<i>Pontia daplidice</i>	0	1	1	1	1	1	0	1	1
<i>Pyrgus malvoides</i>	0	0	0	1	0	0	0	1	0
<i>Pyronia cecilia</i>	0	0	1	0	1	0	0	0	0
<i>Pyronia tithonus</i>	1	1	1	1	1	1	1	1	0
<i>Satyrium esculi</i>	0	0	1	0	0	0	0	0	0
<i>Satyrium spini</i>	1	1	1	1	1	0	0	0	0
<i>Satyrus actaea</i>	1	1	0	0	0	0	0	1	1
<i>Speyeria aglaja</i>	0	0	0	0	1	0	1	0	0
<i>Thymelicus acteon</i>	0	0	1	0	1	0	0	0	0
<i>Thymelicus lineola</i>	0	0	0	0	0	1	1	0	0
<i>Thymelicus sylvestris</i>	1	0	0	1	1	1	1	0	1
<i>Vanessa atalanta</i>	0	0	0	1	0	0	1	0	0
<i>Vanessa cardui</i>	0	0	0	0	0	0	1	1	0

[illegible]

<i>Lestes viridis</i>	0	1	1	0	0	0	0	0	0
<i>Libellula depressa</i>	0	0	1	0	0	0	0	0	0
<i>Libellula quadrimaculata</i>	0	0	0	0	0	0	0	1	1
<i>Macromia splendens</i>	0	0	1	0	0	0	0	0	0
<i>Onychogomphus uncatus</i>	1	0	1	1	1	1	0	0	1
<i>Orthetrum coerulescens</i>	1	0	1	0	0	0	0	0	0
<i>Oxygastra curtisii</i>	0	0	1	0	0	0	0	0	0
<i>Platycnemis latipes</i>	0	1	1	0	0	1	0	0	0
<i>Pyrrosoma nymphula</i>	1	1	1	1	1	1	1	1	1
<i>Sympetrum flaveolum</i>	0	0	0	0	0	0	0	1	0
<i>Sympetrum fonscolombii</i>	0	0	0	0	0	0	0	1	0
<i>Sympetrum sanguineum</i>	0	0	0	0	0	0	0	1	0
<i>Sympetrum striolatum</i>	0	1	0	0	0	0	0	0	0

Table S5. Butterfly alpha diversity in the study sites on the margins of mountain streams (A- Fer-vença, B - Caniça and C- Loriga) at different elevation levels (500m, 1000m and 1500m). SR: observed species richness, Abund: abundance, EShan: exponential of Shannon diversity index, ISimp: reciprocal of Simpson's diversity index, BP: reciprocal of Berger-Parker index, SR_{estim}: estimated species richness, Comp: completeness.

Elevation (m)	Stream	SR	Abund	EShan	ISimp	BP	Evenness	SR _{estim}	Comp
500	A	32	188	20.0	13.6	0.16	0.54	39	0.82
500	B	35	167	21.3	14.6	0.16	0.53	48.2	0.73
500	C	33	175	19.3	13.3	0.15	0.50	36.6	0.90
1000	A	35	220	20.6	14.7	0.13	0.48	38.5	0.91
1000	B	48	409	33.0	26.2	0.07	0.48	53.6	0.90
1000	C	32	211	17.7	10.4	0.25	0.51	34.1	0.94
1500	A	29	132	18.7	13.2	0.18	0.56	32.5	0.89
1500	B	22	88	15.0	12.0	0.15	0.56	27.6	0.80
1500	C	16	90	10.3	7.2	0.27	0.61	16	1

Table S6. Odonate alpha diversity in the study sites on the margins of mountain streams (A- Fer-vença, B - Caniça and C- Loriga) at different altitudinal levels (500m, 1000m and 1500m). SR: observed species richness, Abund: abundance, EShan: exponential of Shannon diversity index, ISimp: reciprocal of Simpson's diversity index, BP: reciprocal of Berger-Parker index, SR_{estim}: estimated species richness, Comp: completeness.

Elevation (m)	Stream	SR	Abund	EShan	ISimp	BP	Evenness	SR _{estim}	Comp
500	A	7	70	5.1	4.5	0.3	0.34	8	0.88
500	B	8	105	4.2	3.1	0.5	0.33	8	1
500	C	14	148	8.4	6.1	0.32	0.43	15.5	0.90
1000	A	5	82	4.1	3.6	0.4	0.74	5	1
1000	B	6	101	3.7	3.1	0.42	0.3	6	1
1000	C	6	79	3.9	3.1	0.5	0.36	6	1
1500	A	3	17	2.1	1.8	0.71	0.49	3	1
1500	B	10	164	4.3	2.9	0.54	0.27	10.3	0.98

1500	C	8	30	5.9	4.7	0.37	0.62	8.3	0.96
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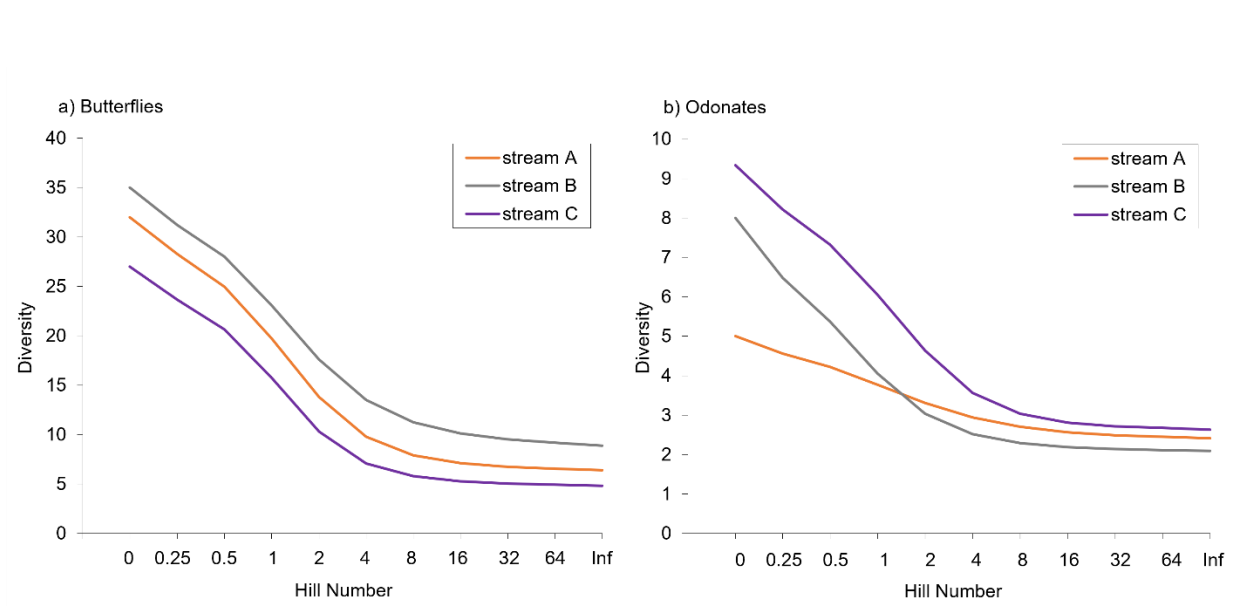


Figure S1. Alpha diversity per stream for butterflies (a) and odonates (b) represented by Hill numbers. Stream name codes mean: A-Fervença, B-Caniça and C-Loriga.