Apéndice digital 1

Curvas de cobertura del muestreo con respecto al número de muestras tomadas por río (A) y por mesohábitat (B)

Digital Appendix 1

Sampling coverage curves in function to the number of samples taken per stream (A) and meso-habitat (B)



Apéndice digital 2

Géneros de macroinvertebrados reportados en los arroyos estudiados en enero de 2017 y 2018. Para cada uno se indica su hábito alimenticio (L: larva; A: adulto)

Digital Appendix 2

Macroinvertebrates genera reported in the streams studied in January 2017 and 2018. For each one, their functional feeding groups are indicated (L: larvae; A: adult)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Orden | Familia | Género | Hábito alimenticio | Bibliografía |
| Coleoptera | Elmidae | *Austrolimnius* | Recolector | Gallegos Sánchez, 2013 |
| *Heterelmis* | Variable (L: recolector, triturador; A: recolector) | Chará-Serna, Chará, Zúñiga, Pearson, & Boyero, 2012; Chaves-Ulloa, Umaña-Villalobos, & Springer, 2014; Mendes, Kiffer, & Moretti, 2017; Tomanova et al., 2006. |
| *Luchoelmis* | Sin información |   |
| *Macrelmis* | A: Recolector | Chará-Serna, Chará, Zúñiga, Pedraza, & Giraldo, 2010; Gallegos Sánchez, 2013 |
|
| *Microcylloepus* | Variable (L: Recolector, raspador) | Chaves-Ulloa et al., 2014; Gallegos Sánchez, 2013; Saulino, Corbi, & Trivinho-Strixino, 2014; Tomanova et al., 2006 |
| *Neocylloepus* | Sin información |  |
| *Neoelmis* | Variable (L: Recolector; A: Raspador) | Chaves-Ulloa et al., 2014; Gallegos Sánchez, 2013; Mendes et al., 2017; Tomanova et al., 2006 |
|
| *Xenelmis* | Variable (L: Recolector; A: Raspador) | Mendes et al., 2017 |
| Hydroscaphidae  | *Scaphydra cf.* | Raspador | Merritt et al., 2008 |
| *Hydroscapha* | Raspador | Merritt et al., 2008 |
| Lampyridae | *Sin determinar* | Depredador | Domínguez & Fernández, 2009 |
| Psephenidae | *Psephenus* | Raspador | Merritt et al., 2008  |
| Decapoda | Paleomonidae | *Macrobrachium* | Depredador | Collins & Paggi, 1997 |
| Diptera | Ceratopogonidae | *Bezzia* | Depredador | Merritt et al., 2008; Santos, 2014; Spinelli & Wirth, 1991  |
| Chironomidae | *Ablabesmyia* | Depredador | Cummins, 1973; Henriques-Oliveira et al., 2003; Merritt et al., 2008 |
| *Chironomus* | Recolector | Santos, 2014 |
| *Beardius* | Recolector | da Silva Laurindo, Calcidoni Moreira, Lucas Bochini, & Silveira Ruiz, 2008 |
| *Corynoneura* | Recolector | Henriques-Oliveira et al., 2003; Saulino et al., 2014 |
| *Cricotopus* | Variable (Fragmentador, Recolector) | Chará-Serna et al., 2012; Saulino et al., 2014 |
| *Endotribelos* | Fragmentador | Chará-Serna et al., 2012 |
| *Fissimentum* | Recolector | Da Silva Laurindo et al., 2008 |
| *Labrundinia* | Depredador | Santos, 2014; Saulino et al., 2014 |
| *Lauterborniella* | Recolector | Heino, 2008 |
| *Lopescladius* | Recolector | Henriques-Oliveira et al., 2003; Saulino et al., 2014 |
| *Macropelopia* | Depredador  | Cummins, 1973; Merritt et al., 2008 |
| *Nilotanypus* | Depredador | Cummins, 1973; Merritt et al., 2008; Santos, 2014 |
| *Onconeura* | Recolector | Saulino et al., 2014 |
| *Parametriocnemus* | Recolector | Chará-Serna et al., 2012; Saulino et al., 2014 |
| *Pentaneura* | Depredador | Saulino et al., 2014 |
| *Phaenopsectra* | Raspador | Mihuc & Toetz, 1994 |
| *Polypedilum* | Variable (Recolector, Fragmentador, Depredador) | Chará-Serna et al., 2012; Heino, 2008; Merritt et al., 2008; Saulino et al., 2014 |
| *Rheotanytarsus* | Recolector | Chará-Serna et al., 2012; Saulino et al., 2014 |
| *Riethia* | Recolector | Saulino et al., 2014 |
| *Stenochironomus* | Fragmentador | Chará-Serna et al., 2012; Santos, 2014 |
| *Tanytarsus* | Variable (Filtrador, Recolector) | Heino, 2008; Santos, 2014; Saulino et al., 2014 |
| *Thienemannimyia* | Depredador | Saulino et al., 2014 |
| *Xestochironomus* | Recolector | Santos 2014 |
| Culicidae | *Anopheles* | Filtrador | Merritt, Dadd, & Walker, 1992 |
| Corethrellidae | *Sin determinar* | Depredador | Merritt et al., 2008 |
| Dixidae | *Sin determinar* | Recolector | Merritt et al., 2008 |
| Empididae | *Hemerodromia* | Variable (Depredador, Fragmentador) | Chará-Serna et al., 2010; Merritt et al., 2008 |
| Muscidae | *Limnophora* | Depredador |  Gallegos Sánchez, 2013 |
| Simuliidae | *Simulium* | Recolector | Chará-Serna et al., 2012; Cummins, 1973 |
| Tipulidae | *Hexatoma* | Depredador | Chará-Serna et al., 2012; Merritt et al., 2008; Tomanova et al., 2006 |
| Ephemeroptera | Baetidae | *Americabaetis* | Variable (Raspador, Recolector) | Chará-Serna et al., 2012; Fogaça, Gomes, & Higuti, 2013 |
| *Cloeodes* | Recolector | Fogaça et al., 2013 |
| Caenidae | *Caenis* | Variable (Recolector, Raspador) | Chaves-Ulloa et al., 2014; Fogaça et al., 2013; Ramírez & Gutiérrez-Fonseca, 2014; Saulino et al., 2014 |
| Coryphoridae | *Coryphorus* | Sin información |  Ramírez & Gutiérrez-Fonseca, 2014 |
| Euthyplociidae | *Campylocia* | Recolector | Merritt et al., 2008 |
| Leptohyphidae | *Haplohyphes* | Recolector | Chará-Serna et al., 2010 |
| *Leptohyphodes* | Recolector | Chará-Serna et al., 2012 |
| *Tricorythopsis* | Raspador | Baptista et al., 2006 |
| Leptophlebiidae | *Farrodes* | Variable (Recolector, Filtrador) | Chará-Serna et al., 2012; Fogaça et al., 2013; Santos, 2014 |
| *Miroculis* | Variable (Raspador, Recolector) | Ceneviva-Bastos, Prates, de Mei Romero, Bispo, & Casatti, 2017; Mendes et al., 2017; Santos, 2014; Saulino et al., 2014 |
| *Ulmeritoides cf.* | Variable (Raspador, Fragmentador) | Mendes et al., 2017; Santos, 2014 |
|
|
| Hemiptera | Corixidae | *Tenagobia* | Raspador | Saulino et al., 2014 |
| Gelastocoridae | *Gelastocoris* | Depredador | Domínguez & Fernández, 2009 |
| Naucoridae | *Pelocoris* | Depredador | Domínguez & Fernández, 2009 |
| Nepidae | *Telmatotrephes* | Depredador | Domínguez & Fernández, 2009 |
| Veliidae | *Mesoveloidea* | Depredador | Domínguez & Fernández, 2009 |
| *Microvelia* | Depredador | Domínguez & Fernández, 2009; Santos, 2014 |
| *Rhagovelia* | Variable (Depredador, Recolector) | Chará-Serna et al., 2010; Domínguez & Fernández, 2009 |
| Lepidoptera | Crambidae | *Parapoynx* | Fragmentador | Santos, 2014; Saulino et al., 2014 |
| *Petrophila* | Raspador | Chaves-Ulloa et al., 2014; Merritt et al., 2008; Tomanova et al., 2006 |
| Megaloptera | Corydalidae | *Corydalus* | Depredador | Chará-Serna et al., 2010 |
| Odonata | Calopterygidae | *Heterina* | Depredador | Chará-Serna et al., 2010; Santos, 2014 |
| Coenagrionidae | *Argia* | Depredador | Chará-Serna et al., 2010; Saulino et al., 2014 |
| Gomphidae | *Erpetogomphus* | Depredador | Merritt et al., 2008 |
| Libellulidae | *Tholymis* | Depredador | Merritt et al., 2008 |
| Megapodagrionidae | *Megapodragrion* | Depredador | Chará-Serna et al., 2010; Merritt et al., 2008;  |
|   | *Heteragrion* | Depredador | Chará-Serna et al., 2010; Merritt et al., 2008;  |
| Plecoptera | Perlidae | *Anacroneuria* | Depredador | Chará-Serna et al., 2012; Gallegos Sánchez, 2013; Mendes et al., 2017 |
| Trichoptera | Calamoceratidae | *Phylloicus* | Fragmentador | Chará-Serna et al., 2012; Fogaça et al., 2013; Mendes et al., 2017 |
| Glossosomatidae | *Mortoniella* | Variable (Fragmentador, Raspador) | Mendes et al., 2017; Saulino et al., 2014 |
| Helicopsychidae | *Helicopsyche* | Raspador | Cummins, 2016; Merritt et al., 2008 |
| Hydropsychidae | *Blepharopus* | Filtrador | Merritt et al., 2008 |
|   | *Smicridea* | Variable (Filtrador, Fragmentador) | Chará-Serna et al., 2010; Mendes et al., 2017; Santos, 2014 |
| Hydroptilidae | *Hydroptila* | Raspador | Fogaça et al., 2013; Saulino et al., 2014 |
|   | *Mayatrichia* | Raspador | Sganga, 2011 |
|   | *Oxyethira* | Variable (Raspador, Filtrador) | Fogaça et al., 2013 |
| Leptoceridae | *Triaenodes* | Fragmentador | Barker, Hutchens, & Luken, 2014 |
|   | *Triplectides* | Fragmentador |  Chará-Serna et al., 2010; Mendes et al., 2017 |
| Philopotamidae | *Chimarra* | Filtrador | Fogaça et al., 2013 |
| Polycentropodidae | *Polycentropus* | Depredador | Chará-Serna et al., 2010; Merritt et al., 2008;  |
|   | *Polyplectropus* | Depredador | Merritt et al., 2008; Santos, 2014 |
| Xiphocentronidae | *Xiphocentron* | Recolector | Merritt et al., 2008 |