APPENDIX

Supporting Information – Check list of benthic invertebrates collected in 15 streams of three south Brazilian *Campos* landscapes. Last lines show richness and abundance. List is ordered based on % = relative abundance of each taxon

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MORPHOSPECIES | TAXON | FFG | PAL1 | PAL2 | PAL3 | PAL4 | PAL5 | PAI1 | PAI2 | PAI3 | PAI4 | PAI5 | TIB1 | TIB2 | TIB3 | TIB4 | TIB5 | TOT | % |
| Bivalves sp.4 | Bivalvia | Co.Fi | 0 | 29 | 70 | 0 | 140 | 18 | 6 | 0 | 1 | 13 | 0 | 0 | 0 | 0 | 0 | 277 | 26.18 |
| *Aegla* sp. | Aeglidae | Sh.De | 9 | 4 | 11 | 11 | 7 | 33 | 36 | 9 | 15 | 40 | 0 | 0 | 0 | 0 | 0 | 175 | 16.54 |
| Lymnaeidae sp. | Gastropoda | Sc | 0 | 0 | 0 | 0 | 0 | 5 | 16 | 18 | 53 | 55 | 0 | 0 | 0 | 0 | 0 | 147 | 13.89 |
| Bivalves sp.1 | Bivalvia | Co.Fi | 5 | 4 | 13 | 11 | 27 | 3 | 0 | 7 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 79 | 7.47 |
| Chironomidae sp. | Diptera | Ga.Co | 1 | 6 | 1 | 2 | 28 | 5 | 6 | 22 | 0 | 2 | 1 | 0 | 1 | 0 | 1 | 76 | 7.18 |
| Elmidae sp.2 | Coleoptera | Ga.Co | 2 | 13 | 3 | 0 | 3 | 5 | 3 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 36 | 3.40 |
| Odontoceridae sp. | Trichoptera | Sc | 0 | 0 | 4 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 28 | 2.65 |
| *Limnocoris* sp. | Naucoridae | Pr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | 6 | 4 | 21 | 1.98 |
| Oligochaeta sp. | Oligochaeta | - | 0 | 3 | 14 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 21 | 1.98 |
| Gomphidae sp. | Odonata | Pr | 0 | 1 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 1 | 18 | 1.70 |
| Helotrephidae sp. | Hemiptera | Pr | 0 | 0 | 0 | 0 | 1 | 0 | 6 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 1.70 |
| Tipulidae sp. | Diptera | Pr | 0 | 0 | 1 | 5 | 1 | 1 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 4 | 16 | 1.51 |
| *Campylocia* sp. | Euthyplociidae | Ga.Co | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 1 | 7 | 0 | 0 | 0 | 0 | 0 | 14 | 1.32 |
| *Xenelmis* sp. | Elmidae | Ga.Co | 0 | 0 | 1 | 0 | 9 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 1.04 |
| Calamoceratidae sp. | Trichoptera | Sh.De | 0 | 3 | 1 | 0 | 2 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 10 | 0.95 |
| Ceratopogonidae sp. | Diptera | Pr | 0 | 2 | 0 | 0 | 1 | 1 | 2 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 10 | 0.95 |
| *Psephenus* sp. | Psephenidae | Sc | 0 | 0 | 0 | 0 | 6 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0.95 |
| Libellulidae sp. | Odonata | Pr | 0 | 2 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 9 | 0.85 |
| Naucoridae sp. | Hemiptera | Pr | 0 | 1 | 0 | 0 | 7 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0.85 |
| Bivalves sp.2 | Bivalvia | Co.Fi | 0 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0.66 |
| Leptoceridae sp. | Trichoptera | Sh.De | 0 | 1 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0.66 |
| Hydracarina sp. | Acari | - | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0.57 |
| Calopterygidae sp. | Odonata | Pr | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 5 | 0.47 |
| Hydrobiidae sp. | Gastropoda | Sc | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 4 | 0.38 |
| Aeshnidae sp. | Odonata | Pr | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 0.28 |
| *Atopsyche* sp. | Hydrobiosidae | Pr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |  | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0.28 |
| Elmidae sp.1 | Coleoptera | Ga.Co | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0.28 |
| Simuliidae sp. | Diptera | Co.Fi | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0.28 |
| Baetidae sp. | Odonata | Pr | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0.19 |
| Hemiptera sp.2 | Hemiptera | Pr | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0.19 |
| Hydropsychidae sp. | Trichoptera | Co.Fi | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0.19 |
| Perlidae sp.1. | Plecoptera | Pr | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0.19 |
| *Phanoceroides* sp. | Elmidae | Ga.Co | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0.19 |
| *Progomphus* sp. | Gomphidae | Pr | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0.19 |
| Trichoptera sp. | Trichoptera | - | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0.19 |
| *Americabaetis* sp. | Baetidae | Pr | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| Belostomatidae sp. | Hemiptera | Pr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0.09 |
| *Chloronia* sp. | Corydalidae | Pr | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| Coenagrionidae sp. | Odonata | Pr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| Corduliidae sp. | Odonata | Pr | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| Corydalinae sp. | Megaloptera | Pr | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| Perlidaesp.2. | Plecoptera | Pr | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| Helicopsychidae sp. | Trichoptera | Sc | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| Hemiptera sp.1 | Hemiptera | Pr | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| Hirudinea sp. | Hirudinea | - | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| Lepidoptera sp. | Lepidoptera | - | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| Leptohyphidae sp. | Ephemeroptera | Ga.Co | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| Leptophlebiidae sp. | Odonata | Pr | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| *Anacroneuria* sp. | Perlidae | Pr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| Megapodagrionidae sp. | Odonata | Pr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| *Phyllogomphoides* sp. | Gomphidae | Pr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| Protoneuridae sp. | Odonata | Pr | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| Veliidae sp. | Hemiptera | Pr | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0.09 |
| RICHNESS |  |  | 7 | 20 | 15 | 5 | 21 | 17 | 17 | 14 | 8 | 14 | 7 | 4 | 4 | 1 | 7 |  |  |
| ABUNDANCE |  |  | 20 | 84 | 128 | 30 | 264 | 84 | 88 | 87 | 75 | 136 | 24 | 13 | 6 | 6 | 13 | 1 058 |  |

PAL = Palmas; PAI = Painel; TIB = Tibagi. FFG = functional feeding groups.