**Supplementary Information**

Table S1. Index of Relative Importance (IRI) of the prey category ingested by syntopic anurans documented in low (Site 1) and mid-elevation (Site 2) forested riparian communities of the Taguibo Watershed, Agusan del Norte, northeast Mindanao, Philippines.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Limnonectes magnus* | | | | |
| May | June | July | August | September |
| (n=23) | (n=20) | (n=15) | (n=22) | (n=22) |
| 1 | Insecta: Blattodea | 0.00 | 76.83 | 0.00 | 0.00 | 0.00 |
| Insecta: Coleoptera | 3102.67 | 532.23 | 0.00 | 5650.16 | 5706.70 |
| Insecta: Diptera | 0.00 | 0.00 | 0.00 | 0.00 | 20.67 |
| Insecta: Hemiptera | 25.59 | 72.68 | 16.72 | 62.21 | 20.68 |
| Insecta: Hymenoptera: Formicidae | 685.14 | 4096.06 | 7475.29 | 2534.02 | 540.84 |
| Insecta: Isoptera | 0.00 | 15094.24 | 6716.98 | 143.14 | 20.69 |
| Insecta: Orthoptera | 514.3 | 8.07 | 0.00 | 0.00 | 20.80 |
| Insect larvae | 0.00 | 0.00 | 16.97 | 0.00 | 0.00 |
| Annelida: Oligochaeta | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Arthropoda: Araneae | 25.62 | 32.36 | 17.46 | 162.27 | 189.97 |
| Arthropoda: Chilopoda | 0.00 | 0.00 | 0.00 | 0.00 | 20.68 |
| Gastropoda: Thiaridae | 0.00 | 8.07 | 0.00 | 0.00 | 0.00 |
| Reptilia: Serpentes | 32.39 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | Total | 4385.71 | 19920.53 | 14243.42 | 8551.79 | 6541.03 |

**Table S1,** continued**.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Occidozyga laevis* | | | | |
| May | June | July | August | September |
|  |  | (n=0) | (n=1) | (n=0) | (n=0) | (n=0) |
| 1 | Insecta: Blattodea | - | 0.00 | - | - | - |
| Insecta: Coleoptera | - | 0.00 | - | - | - |
| Insecta: Diptera | - | 0.00 | - | - | - |
| Insecta: Hemiptera | - | 13767.12 | - | - | - |
| Insecta: Hymenoptera: Formicidae | - | 6232.88 | - | - | - |
| Insecta: Isoptera | - | 0.00 | - | - | - |
| Insecta: Orthoptera | - | 0.00 | - | - | - |
| Insect larvae | - | 0.00 | - | - | - |
| Annelida: Oligochaeta | - | 0.00 | - | - | - |
| Arthropoda: Araneae | - | 0.00 | - | - | - |
| Arthropoda: Chilopoda | - | 0.00 | - | - | - |
| Gastropoda: Thiaridae | - | 0.00 | - | - | - |
| Reptilia: Serpentes | - | 0.00 | - | - | - |
|  | Total |  | 20000.00 |  |  |  |

Note: dash (-) indicates dietary data is not available.

**Table S1,** continued**.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Megophrys stejnegeri* | | | | |
| May | June | July | August | September |
|  |  | (n=3) | (n=2) | (n=5) | (n=0) | (n=3) |
| 1 | Insecta: Blattodea | - | - | 0.00 | - | - |
| Insecta: Coleoptera | - | - | 0.00 | - | - |
| Insecta: Diptera | - | - | 2503.86 | - | - |
| Insecta: Hemiptera | - | - | 0.00 | - | - |
| Insecta: Hymenoptera: Formicidae | - | - | 0.00 | - | - |
| Insecta: Isoptera | - | - | 7496.14 | - | - |
| Insecta: Orthoptera | - | - | 0.00 | - | - |
| Insect larvae | - | - | 0.00 | - | - |
| Annelida: Oligochaeta | - | - | 0.00 | - | - |
| Arthropoda: Araneae | - | - | 0.00 | - | - |
| Arthropoda: Chilopoda | - | - | 0.00 | - | - |
| Gastropoda: Thiaridae | - | - | 0.00 | - | - |
| Reptilia: Serpentes | - | - | 0.00 | - | - |
|  | Total |  |  | 10000.00 |  |  |

Note: dash (-) indicates dietary data is not available.

**Table S1,** continued**.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Pulchrana grandocula* | | | | |
| May | June | July | August | September |
|  |  | (n=23) | (n=13) | (n=20) | (n=20) | (n=20) |
| 1 | Insecta: Blattodea | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Coleoptera | 429.98 | 0.00 | 350.12 | 0.00 | 114.01 |
| Insecta: Diptera | 47.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Hemiptera | 0.00 | 1538.46 | 0.00 | 0.00 | 0.00 |
| Insecta: Hymenoptera: Formicidae | 202.34 | 0.00 | 0.00 | 0.00 | 83.42 |
| Insecta: Isoptera | 0.00 | 0.00 | 9604.90 | 0.00 | 0.00 |
| Insecta: Orthoptera | 0.00 | 0.00 | 0.00 | 0.00 | 587.61 |
| Insect larvae | 252.18 | 0.00 | 47.80 | 0.00 | 0.00 |
| Annelida: Oligochaeta | 39.91 | 0.00 | 0.00 | 0.00 | 0.00 |
| Arthropoda: Araneae | 1021.08 | 0.00 | 35.09 | 1000.00 | 1017.52 |
| Arthropoda: Chilopoda | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gastropoda: Thiaridae | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Reptilia: Serpentes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|  | Total | 1992.54 | 1538.46 | 10037.91 |  | 1802.57 |

Note: dash (-) indicates dietary data is not available.

**Table S1,** continued**.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Ansonia muelleri* | | | |
| April | June | July | August |
| (n=20) | (n=21) | (n=20) | (n=25) |
| 2 | Insecta: Blattodea | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Coleoptera | 2.51 | 670.17 | 35.73 | 230.86 |
| Insecta: Diptera | 2.51 | 0.00 | 0.00 | 124.61 |
| Insecta: Hemiptera | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Hymenoptera: Formicidae | 13124.80 | 5985.39 | 11141.48 | 15416.43 |
| Insecta: Hymenoptera: non Formicidae | 0.00 | 0.00 | 35.82 | 0.00 |
| Insecta: Odonata | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Orthoptera | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Tricoptera | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Insect larvae | 0.00 | 0.00 | 0.00 | 0.00 |
| Arthropoda: Araneae | 0.00 | 36.67 | 0.00 | 0.00 |
|  | Total | 13129.82 | 6692.23 | 11213.03 | 15771.90 |

Note: dash (-) indicates dietary data is not available.

**Table S1,** continued**.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Limnonectes magnus* | | | |
| April | June | July | August |
| (n=21) | (n=20) | (n=20) | (n=26) |
| 2 | Insecta: Blattodea | 2158.45 | 15.27 | 0.00 | 0.00 |
| Insecta: Coleoptera | 695.82 | 2979.89 | 23.17 | 629.16 |
| Insecta: Diptera | 25.87 | 60.61 | 17.25 | 16.03 |
| Insecta: Hemiptera | 4.48 | 15.24 | 76.22 | 17.28 |
| Insecta: Hymenoptera: Formicidae | 965.42 | 1914.46 | 7796.28 | 3857.96 |
| Insecta: Hymenoptera: non Formicidae | 0.00 | 15.16 | 0.00 | 0.00 |
| Insecta: Odonata | 16.47 | 16.64 | 0.00 | 0.00 |
| Insecta: Orthoptera | 68.62 | 1421.46 | 344.61 | 335.40 |
| Insecta: Tricoptera | 0.00 | 0.00 | 17.25 | 0.00 |
| Insecta: Insect larvae | 1042.24 | 16.55 | 69.17 | 0.00 |
| Arthropoda: Araneae | 0.00 | 60.65 | 324.88 | 259.87 |
|  | Total | 4977.37 | 6515.94 | 8668.83 | 5115.7 |

Note: dash (-) indicates dietary data is not available.

**Table S1,** continued**.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Puchrana grandocula* | | | |
| April | June | July | August |
| (n=19) | (n=20) | (n=20) | (n=20) |
| 2 | Insecta: Blattodea | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Coleoptera | 0.00 | 0.00 | 348.23 | 108.14 |
| Insecta: Diptera | 0.00 | 0.00 | 0.00 | 101.51 |
| Insecta: Hemiptera | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Hymenoptera: Formicidae | 3645.55 | 126.29 | 0.00 | 132.55 |
| Insecta: Hymenoptera: non Formicidae | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Odonata | 0.00 | 0.00 | 450.35 | 0.00 |
| Insecta: Orthoptera | 322.69 | 1456.14 | 201.42 | 0.00 |
| Insecta: Tricoptera | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Insect larvae | 244.70 | 145.64 | 0.00 | 0.00 |
| Arthropoda: Araneae | 0.00 | 0.00 | 0.00 | 1315.60 |
|  | Total | 4212.94 | 1728.07 | 1000.00 | 1657.80 |

Note: dash (-) indicates dietary data is not available.

**Table S1,** continued**.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Sanguirana mearnsi* | | | |
| April | June | July | August |
| (n=12) | (n=0) | (n=7) | (n=0) |
| 2 | Insecta: Blattodea | 0.00 | - | 0.00 | - |
| Insecta: Coleoptera | 0.00 | - | 5758.75 | - |
| Insecta: Diptera | 0.00 | - | 0.00 | - |
| Insecta: Hemiptera | 0.00 | - | 0.00 | - |
| Insecta: Hymenoptera: Formicidae | 0.00 | - | 0.00 | - |
| Insecta: Hymenoptera: non Formicidae | 0.00 | - | 3.17 | - |
| Insecta: Odonata | 0.00 | - | 0.00 | - |
| Insecta: Orthoptera | 0.00 | - | 0.00 | - |
| Insecta: Tricoptera | 0.00 | - | 0.00 | - |
| Insecta: Insect larvae | 1666.67 | - | 0.00 | - |
| Arthropoda: Araneae | 0.00 | - | 0.00 | - |
|  | Total | 1666.67 |  | 5761.92 |  |

Note: dash (-) indicates dietary data is not available.

**Table S1,** continued**.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Staurois natator* | | | |
| April | June | July | August |
| (n=1) | (n=1) | (n=0) | (n=4) |
| 2 | Insecta: Blattodea | 0.00 | - | - | - |
| Insecta: Coleoptera | 0.00 | - | - | - |
| Insecta: Diptera | 0.00 | - | - | - |
| Insecta: Hemiptera | 0.00 | - | - | - |
| Insecta: Hymenoptera: Formicidae | 20000.00 | - | - | - |
| Insecta: Hymenoptera: non Formicidae | 0.00 | - | - | - |
| Insecta: Odonata | 0.00 | - | - | - |
| Insecta: Orthoptera | 0.00 | - | - | - |
| Insecta: Tricoptera | 0.00 | - | - | - |
| Insecta: Insect larvae | 0.00 | - | - | - |
| Arthropoda: Araneae | 0.00 | - | - | - |
|  | Total | 20000.00 |  |  |  |

Note: dash (-) indicates dietary data is not available.

**Table S2.** Dietary composition showing numeric proportion (N), volumetric proportion (V), and frequency occurrence (FO) of the prey items consumed by syntopic seven anurans documented in low (Site 1) and mid-elevation (Site 1) forested riparian communities of the Taguibo Watershed, Agusan del Norte, northeast Mindanao, Philippines.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Limnonectes magnus* | | | | | | | | | | | | | | |
| May (n=23) | | | June (n=20) | | | July (n=15) | | | August (n=22) | | | September (n=22) | | |
| *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* |
| 1 | Insecta: Blattodea | 0.00 | 0.00 | 0.00 | 4.84 | 0.28 | 15.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Coleoptera | 41.18 | 60.77 | 30.43 | 12.90 | 0.40 | 40.00 | 22.50 | 12.3 | 60.00 | 33.33 | 90.97 | 45.45 | 40.91 | 98.6 | 40.9 |
| Insecta: Diptera | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.55 | 0.00 | 4.55 |
| Insecta: Hemiptera | 5.88 | 0.00 | 4.35 | 4.84 | 0.01 | 15.00 | 2.50 | 0.01 | 6.67 | 6.67 | 0.18 | 9.091 | 4.55 | 0.00 | 4.55 |
| Insecta: Hymenoptera: Formicidae | 23.53 | 15.87 | 17.39 | 33.87 | 5.14 | 105 | 42.50 | 23.5 | 113.33 | 40.00 | 6.46 | 54.55 | 22.73 | 1.07 | 22.7 |
| Insecta: Isoptera | 0.00 | 0.00 | 0.00 | 37.10 | 94.16 | 115 | 27.50 | 64.10 | 73.33 | 10.00 | 0.50 | 13.64 | 0.00 | 0.00 | 0.00 |
| Insecta: Orthoptera | 17.65 | 21.78 | 13.04 | 1.61 | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insect larvae | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.50 | 0.05 | 6.67 | 0.00 | 0.00 | 0.00 | 4.55 | 0.03 | 4.55 |
| Annelida: Oligochaeta | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Arthropoda: Araneae | 5.88 | 0.01 | 4.35 | 3.23 | 0.01 | 10.00 | 2.50 | 0.12 | 6.67 | 10.00 | 1.90 | 13.64 | 13.64 | 0.29 | 13.6 |
| Arthropoda: Chilopoda | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.55 | 0.00 | 4.55 |
| Gastropoda: Thiaridae | 0.00 | 0.00 | 0.00 | 1.61 | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Reptilia: Serpentes | 5.88 | 1.57 | 4.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Note: dash (-) indicates dietary data is not available.

**Table S2,** continued**.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Occidozyga laevis* | | | | | | | | | | | | | | |
| May (n=0) | | | June (n=1) | | | July (n=0) | | | August (n=0) | | | September (n=0) | | |
| *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* |
| 1 | Insecta: Blattodea | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Insecta: Coleoptera | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Insecta: Diptera | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Insecta: Hemiptera | - | - | - | 50.00 | 87.67 | 100.00 | - | - | - | - | - | - | - | - | - |
| Insecta: Hymenoptera: Formicidae | - | - | - | 50.00 | 12.33 | 100.00 | - | - | - | - | - | - | - | - | - |
| Insecta: Isoptera | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Insecta: Orthoptera | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Insect larvae | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Annelida: Oligochaeta | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Arthropoda: Araneae | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Arthropoda: Chilopoda | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Gastropoda: Thiaridae | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Reptilia: Serpentes | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |

Note: dash (-) indicates dietary data is not available.

**Table S2,** continued**.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Megophrys stejnegeri* | | | | | | | | | | | | | | |
| May (n=3) | | | June (n=2) | | | July (n=5) | | | August (n=0) | | | September (n=3) | | |
| *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* |
| 1 | Insecta: Blattodea | - | - | - | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - |
| Insecta: Coleoptera | - | - | - | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - |
| Insecta: Diptera | - | - | - | - | - | - | 50.00 | 0.08 | 50.00 | - | - | - | - | - | - |
| Insecta: Hemiptera | - | - | - | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - |
| Insecta: Hymenoptera: Formicidae | - | - | - | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - |
| Insecta: Isoptera | - | - | - | - | - | - | 50.00 | 99.92 | 50.00 | - | - | - | - | - | - |
| Insecta: Orthoptera | - | - | - | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - |
| Insect larvae | - | - | - | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - |
| Annelida: Oligochaeta | - | - | - | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - |
| Arthropoda: Araneae | - | - | - | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - |
| Arthropoda: Chilopoda | - | - | - | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - |
| Gastropoda: Thiaridae | - | - | - | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - |
| Reptilia: Serpentes | - | - | - | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - |

Note: dash (-) indicates dietary data is not available.

**TableS2,** continued**.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Pulchrana grandocula* | | | | | | | | | | | | | | |
| May (n=23) | | | June (n=13) | | | July (n=20) | | | August (n=20) | | | September (n=20) | | |
| *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* |
| 1 | Insecta: Blattodea | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Coleoptera | 18.2 | 31.3 | 8.70 | 0.00 | 0.00 | 0.00 | 17.65 | 5.69 | 15.00 | 0.00 | 0.00 | 0.00 | 16.67 | 6.14 | 5.00 |
| Insecta: Diptera | 9.09 | 1.73 | 4.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Hemiptera | 0.00 | 0.00 | 0.00 | 100.00 | 100.00 | 7.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Hymenoptera: Formicidae | 18.2 | 5.09 | 8.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.67 | 0.02 | 5.00 |
| Insecta: Isoptera | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 70.59 | 89.5 | 60.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Orthoptera | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 33.33 | 25.4 | 10.00 |
| Insect larvae | 18.2 | 10.8 | 8.70 | 0.00 | 0.00 | 0.00 | 5.88 | 3.68 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annelida: Oligochaeta | 9.09 | 0.09 | 4.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Arthropoda: Araneae | 27.3 | 51 | 13 | 0.00 | 0.00 | 0.00 | 5.88 | 1.13 | 5.00 | 100.00 | 100.00 | 5.00 | 33.33 | 68.4 | 10.00 |
| Arthropoda: Chilopoda | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gastropoda: Thiaridae | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Reptilia: Serpentes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Note: dash (-) indicates dietary data is not available.

**Table S2,** continued**.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Ansonia muelleri* | | | | | | | | | | | |
| April (n=20) | | | June (n=21) | | | July (n=20) | | | August (n=25) | | |
| *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* |
| 2 | Insecta: Blattodea | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Coleoptera | 6.25 | 0.00 | 5.00 | 30.77 | 4.41 | 19.05 | 7.14 | 0.00 | 5.00 | 20.00 | 0.64 | 16.00 |
| Insecta: Diptera | 6.25 | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 0.04 | 12.00 |
| Insecta: Hemiptera | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Hymenoptera: Formicidae | 87.50 | 100.00 | 70.00 | 61.54 | 95.58 | 38.10 | 85.71 | 99.98 | 60.00 | 20.00 | 99.32 | 88.00 |
| Insecta: Hymenoptera: non Formicidae | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.14 | 0.02 | 5.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Odonata | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Orthoptera | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Tricoptera | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Insect larvae | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Arthropoda: Araneae | 0.00 | 0.00 | 0.00 | 7.69 | 0.00 | 4.76 | 0.00 | 0.00 | 0.00 | 40.00 | 0.00 | 0.00 |

Note: dash (-) indicates dietary data is not available.

**Table S2,** continued**.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Limnonectes magnus* | | | | | | | | | | | |
| April (n=21) | | | June (n=20) | | | July (n=20) | | | August (n=26) | | |
| *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* |
| 2 | Insecta: Blattodea | 17.24 | 73.41 | 23.81 | 3.03 | 0.02 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Coleoptera | 17.24 | 11.98 | 23.81 | 27.27 | 38.95 | 45.00 | 3.45 | 1.19 | 5.00 | 25.00 | 2.26 | 23.08 |
| Insecta: Diptera | 10.34 | 0.00 | 2.50 | 6.06 | 0.00 | 10.00 | 3.45 | 0.00 | 5.00 | 4.17 | 0.00 | 3.85 |
| Insecta: Hemiptera | 3.45 | 0.00 | 1.30 | 3.03 | 0.02 | 5.00 | 6.90 | 0.73 | 10.00 | 4.17 | 0.33 | 3.85 |
| Insecta: Hymenoptera: Formicidae | 20.69 | 0.23 | 46.15 | 33.33 | 1.48 | 55.00 | 58.62 | 33.10 | 85 | 33.3 | 92.05 | 30.77 |
| Insecta: Hymenoptera: non Formicidae | 0.00 | 0.00 | 0.00 | 3.03 | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Odonata | 3.45 | 0.01 | 4.76 | 3.03 | 0.30 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Orthoptera | 6.90 | 0.31 | 9.52 | 12.12 | 58.95 | 20.00 | 13.79 | 3.44 | 20.00 | 16.67 | 5.13 | 15.38 |
| Insecta: Tricoptera | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.45 | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Insect larvae | 20.69 | 14.05 | 30.00 | 3.03 | 0.28 | 5.0 | 6.90 | 0.02 | 10.00 | 0.00 | 0.00 | 0.00 |
| Arthropoda: Araneae | 0.00 | 0.00 | 0.00 | 6.06 | 0.00 | 10.0 | 3.45 | 61.53 | 5.00 | 16.67 | 0.23 | 15.38 |

Note: dash (-) indicates dietary data is not available.

**Table S2,** continued.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Pulchrana grandocula* | | | | | | | | | | | |
| April (n=19) | | | June (n=20) | | | July (n=20) | | | August (n=20) | | |
| *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* |
| 2 | Insecta: Blattodea | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Coleoptera | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 33.33 | 36.31 | 5.00 | 20 | 1.63 | 5.00 |
| Insecta: Diptera | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20 | 0.30 | 5.00 |
| Insecta: Hemiptera | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Hymenoptera: Formicidae | 66.67 | 48.78 | 31.58 | 25.00 | 0.26 | 5.00 | 0.00 | 0.00 | 0.00 | 20.00 | 6.51 | 5.00 |
| Insecta: Hymenoptera: non Formicidae | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Odonata | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 33.33 | 56.74 | 5.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Orthoptera | 11.11 | 50.20 | 5.26 | 50.00 | 95.61 | 10.00 | 33.33 | 6.95 | 5.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Tricoptera | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insecta: Insect larvae | 22.22 | 1.02 | 10.53 | 25.00 | 4.13 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Arthropoda: Araneae | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 40.00 | 91.56 | 10.00 |

Note: dash (-) indicates dietary data is not available.

**Table S2,** continued**.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Sanguirana mearnsi* | | | | | | | | | | | |
| April (n=12) | | | June (n=0) | | | July (n=7) | | | August (n=0) | | |
| *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* |
| 2 | Insecta: Blattodea | 0.00 | 0.00 | 0.00 | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - |
| Insecta: Coleoptera | 0.00 | 0.00 | 0.00 | - | - | - | 0.80 | 99.98 | 57.14 | - | - | - |
| Insecta: Diptera | 0.00 | 0.00 | 0.00 | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - |
| Insecta: Hemiptera | 0.00 | 0.00 | 0.00 | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - |
| Insecta: Hymenoptera: Formicidae | 0.00 | 0.00 | 0.00 | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - |
| Insecta: Hymenoptera: non Formicidae | 0.00 | 0.00 | 0.00 | - | - | - | 0.20 | 0.02 | 14.29 | - | - | - |
| Insecta: Odonata | 0.00 | 0.00 | 0.00 | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - |
| Insecta: Orthoptera | 0.00 | 0.00 | 0.00 | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - |
| Insecta: Tricoptera | 0.00 | 0.00 | 0.00 | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - |
| Insecta: Insect larvae | 100.00 | 100.00 | 8.33 | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - |
| Arthropoda: Araneae | 0.00 | 0.00 | 0.00 | - | - | - | 0.00 | 0.00 | 0.00 | - | - | - |

Note: dash (-) indicates dietary data is not available.

**Table S2,** continued**.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site | Prey Category | *Staurois natator* | | | | | | | | | | | |
| April (n=1) | | | June (n=1) | | | July (n=0) | | | August (n=4) | | |
| *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* | *N* | *V* | *FO* |
| 2 | Insecta: Blattodea | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Insecta: Coleoptera | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Insecta: Diptera | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Insecta: Hemiptera | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Insecta: Hymenoptera: Formicidae | 100.00 | 100.00 | 100.00 | - | - | - | - | - | - | - | - | - |
| Insecta: Hymenoptera: non Formicidae | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Insecta: Odonata | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Insecta: Orthoptera | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Insecta: Tricoptera | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Insecta: Insect larvae | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |
| Arthropoda: Araneae | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - |

Note: dash (-) indicates dietary data is not available.

**Table S3.** Kruskal-Wallis test was used to compare the calculated feeding niche metrics values (dietary overlap: O*jk* and standardized niche breadth: B*st*) across sampling months in the seven syntopic anuran species documented in low-elevation (Site 1) and mid-elevation (Site 2) forested riparian communities of the Taguibo Watershed Agusan del Norte, northeast Mindanao, Philippines. Anurans were collected for six sampling months (April–September).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Site** | **Species** | ***X2*** | ***P* value** | ***Df*** |
| O*jk* | 1 | *L. magnus versus P. grandocula* | 4.86 | 0.30 | 4 |
|  |  | *P. grandocula vs M. stejnegeri* | 0.09 | 0.80 | 1 |
|  |  | *P. grandocula vs O. laevis* | 0.09 | 0.77 | 1 |
|  |  | *L.magnus vs O. laevis* | 0.09 | 0.77 | 1 |
|  | 2 | *A. muelleri vs L. magnus* | 4.86 | 0.30 | 4 |
|  |  | *A. muelleri vs P. grandocula* | 4.86 | 0.30 | 4 |
|  |  | *L. magnus vs P. grandocula* | 4.86 | 0.30 | 4 |
|  |  | *A. muelleri vs S. mearnsi* | 0.09 | 0.80 | 1 |
|  |  | *L. magnus vs S. mearnsi* | 2.50 | 0.30 | 2 |
|  |  | *P.grandocula vs S. mearnsi* | 2.50 | 0.30 | 2 |
|  |  | *A. muelleri vs S. natator* | 2.14 | 0.14 | 1 |
|  |  | *L. magnus vs S. natator* | 2.14 | 0.14 | 1 |
|  |  | *P. grandocula vs S. natator* | 2.14 | 0.14 | 1 |
|  |  | *S. mearnsi vs S. natator\** | - | - | - |
| B*st* | 1 | *L. magnus* | 5.00 | 0.42 | 5 |
|  |  | *O. laevis* | 0.09 | 0.80 | 1 |
|  |  | *M. stejnegeri* | 0.09 | 0.80 | 1 |
|  |  | *P. grandocula* | 3.70 | 0.30 | 3 |
|  | 2 | *A. muelleri* | 4.30 | 0.23 | 3 |
|  |  | *L. magnus* | 4.90 | 0.30 | 4 |
|  |  | *P. grandocula* | 4.90 | 0.30 | 4 |
|  |  | *S. mearnsi* | 0.09 | 0.80 | 1 |
|  |  | *S. natator\** | - | - | - |
| Asterisk (\*) means available values are zero | | |  |  |  |

**Table S4**. Wilcoxon signed-rank test was used to compare the calculated feeding niche metrics values (dietary overlap: O*jk* and standardized niche breadth: B*st*) between *L. magnus* and *P. grandocula* documented in low-elevation (Site 1) and mid-elevation (Site 2) forested riparian communities of the Taguibo Watershed Agusan del Norte, northeast Mindanao, Philippines

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Species** | ***W*** | ***P value*** |
| O*jk* | *L. magnus vs. P. grandocula* | 16 | 0.74 |
| B*st* | *L. magnus* | 21 | 0.63 |
|  | *P. grandocula* | 16 | 0.74 |

**Figure S1**

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**Figure S2**

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**Figure S3**

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**Figure S4 C:\Users\HP\Dropbox\Projects\JTE\JTE rev Dec 2020\figures jan 2021\final figures in tif\300 dpi tif\figS4.anurans300.tif**