SUPPORTING INFORMATION

**Table S1.** Study locations, biomes and its corresponding references.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Biome** | **lat** | **long** | **Ref.** |
|  | *Amazon* |  |  |  |
|  |  | -2.12737 | -59.3277 | Silva 2006 |
| 12 |  | -3.08246 | -59.7675 | Mérona & Rankin-de-Mérona, 2004 |
| 32 |  | -9.23588 | -56.9429 | Dary *et al.*, 2017 |
| 34 |  | -3.56246 | -54.8903 | Cardoso & Couceiro, 2017 |
| 43 |  | -4.33037 | -49.5653 | Mérona *et al.*, 2001 |
| 45 |  | -4.73313 | -62.1543 | (Duarte and others 2019) |
|  | *Cerrado* |  |  |  |
| 01 |  | -15.9329 | -47.884 | Leite *et al.*, 2015 |
| 02 |  | -15.7186 | -48.0138 | Schneider *et al.*, 2011 |
| 03 |  | -14.4367 | -48.5814 | Mazzoni *et al.*, 2010 |
| 04 |  | -11.888 | -52.2246 | Carmo 2013 |
| 06 |  | -15.58 | -52.3067 | Melo *et al.*, 2004 |
| 08 |  | -15.934 | -56.0369 | Corrêa *et al.*, 2011 |
|  |  | -21.2666 | -44.059 | Gandini *et al.*, 2012 |
| 21 |  | -20.6853 | -53.5437 | Silva *et al.*, 2017 |
| 22 |  | -22.0035 | -53.8057 | Brandão-Gonçalves *et al.*, 2010 |
| 26 |  | -12.1667 | -47.75 | Pereira 2010 |
| 27 |  | -9.43333 | -50.1667 | Pereira 2010 |
| 28 |  | -11.7833 | -48.6167 | Pereira *et al.*, 2007 |
| 31 |  | -21.3003 | -56.4355 | Romero 2011 |
| 39 |  | -15.1032 | -49.4467 | Mello 2019 |
| 40 |  | -18.6031 | -51.953 | Aloisio 2006 |
| 41 |  | -13.1558 | -49.1653 | Sales 2015 |
| 49 |  | -20.685 | -56.7783 | Fuentes 2011 |
|  | *Atlantic Forest* |  |  |  |
| 06 and 36 |  | -23.3965 | -51.8506 | Silva 2013 |
| 07 |  | -19.0248 | -40.2295 | Machado 2017 |
| 09 |  | -18.2261 | -40.0756 | Nascimento 2019 |
| 19 |  | -25.1621 | -53.8295 | Baldasso *et al.*, 2019 |
| 13 |  | -23.8382 | -54.349 | Lopes *et al.*, 2016 |
| 14 |  | -23.256 | -46.9613 | Rolla *et al.*, 2009 |
| 15 |  | -25.365 | -48.8321 | Wolff *et al.*, 2013 |
| 16 |  | -25.5461 | -53.2977 | Delariva *et al.*, 2013 |
| 17 |  | -23.5365 | -51.7831 | Silva *et al.*, 2012 |
| 18 |  | -25.08 | -53.6242 | Neves *et al.*, 2015 |
| 19 |  | -22.5984 | -52.2459 | Casatti, 2002 |
| 23 |  | -22.8022 | -45.4489 | Andrade 2004 |
| 24 |  | -22.5156 | -47.6706 | Rondineli 2007 |
| 25 |  | -23.3234 | -51.8903 | Bonato *et al.*, 2012 |
| 29 |  | -23.3197 | -51.1964 | Oliveira & Bennemann, 2005 |
| 30 |  | -23.6374 | -45.8131 | Esteves *et al.*, 2008 |
| 33 |  | -28.7068 | -52.8734 | (Bonato and others 2017) |
| 35 |  | -24.4166 | -47.25 | Gonçalves *et al.*, 2018 |
| 10 |  | -23.3643 | -52.0189 | Silva 2013 |
| 37 |  | -20.7951 | -51.5146 | Luiz *et al.*, 1998 |
| 38 |  | -18.1388 | -40.0213 | Silva 2019 |
| 42 |  | -20.75 | -49.3333 | Rocha *et al.*, 2009 |
| 44 |  | -23.7333 | -45.85 | Esteves & Lobon-Cervia, 2001 |
| 46 |  | -23.5334 | -52.0185 | Garcia 2019 |
| 47 |  | -23.3847 | -51.947 | Mise 2012 |
| 48 |  | -20.5761 | -47.785 | Brambilla *et al.*, 2019 |

**Table S2.** Classes of anthropic impact on land use in a 500-meter buffer on each network. P (pasture); APC (annual and perennial culture); SPC (semi perennial culture); MAP (Mosaic of cropland and pasture); UI (urban infrastructure); ANVA (another non-vegetated area); PPF (percent planted forest); M (mining). Note that native land-uses are not all provided here, therefore the sum of rows will not necessarily be 100%.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **P** | **APC** | **SPC** | **MAP** | **UI** | **ANVA** | **PPF** | **M** |
| 01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 03 | 43.9483 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05 | 0 | 82.31511 | 0 | 7.181136 | 0 | 0 | 0 | 0 |
| 06 | 80.66667 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07 | 0 | 0 | 0 | 7.075472 | 0 | 0 | 0 | 0 |
| 08 | 3.912543 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09 | 66.89655 | 0 | 0 | 20.45977 | 0 | 0 | 0 | 0 |
| 10 | 4.282407 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 58.60963 | 8.128342 | 0 | 25.5615 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | 15.20165 | 0 | 0 | 2.895553 | 0 | 0 | 0 | 0 |
| 17 | 9.195402 | 65.4023 | 0 | 23.21839 | 0 | 0 | 0 | 0 |
| 18 | 12.73533 | 9.634551 | 0 | 21.70543 | 0 | 0 | 0 | 0 |
| 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | 70.72626 | 0 | 0 | 4.022346 | 0 | 0 | 18.10056 | 0 |
| 21 | 27.73019 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | 99.5785 | 0 | 0 | 0.421496 | 0 | 0 | 0 | 0 |
| 23 | 26.44444 | 0 | 0 | 28.11111 | 0 | 0 | 0.222222 | 0 |
| 24 | 9.237875 | 1.732102 | 65.35797 | 23.67206 | 0 | 0 | 0 | 0 |
| 25 | 25.73363 | 60.72235 | 0 | 12.86682 | 0 | 0 | 0 | 0 |
| 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 | 0 | 4.508671 | 0 | 0 |
| 29 | 5.995717 | 6.102784 | 0 | 41.64882 | 39.93576 | 0 | 0 | 0 |
| 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 | 51.08324 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 33 | 0.913242 | 67.57991 | 0 | 6.621005 | 0 | 0 | 0 | 0 |
| 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 | 0 | 0 | 0 | 0.222222 | 0 | 0 | 0 | 0 |
| 36 | 5.989305 | 52.62032 | 0 | 29.94652 | 0 | 0 | 0 | 0 |
| 37 | 69.95662 | 0 | 0 | 13.88286 | 0 | 0 | 0 | 0 |
| 38 | 1.194743 | 78.01673 | 0 | 11.23059 | 0 | 0 | 4.181601 | 0 |
| 39 | 38.8009 | 3.054299 | 9.728507 | 0 | 0 | 0 | 0 | 0 |
| 40 | 38.27581 | 5.658085 | 0 | 0 | 0 | 1.603977 | 0 | 0 |
| 41 | 63.90728 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42 | 90.90909 | 0 | 0 | 7.134638 | 0 | 0 | 0 | 0 |
| 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45 | 0.493093 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 46 | 0.446429 | 71.79236 | 0 | 3.106803 | 0 | 0 | 0 | 0 |
| 47 | 6.417756 | 56.34418 | 2.125261 | 12.90419 | 14.67073 | 0.054549 | 0.089954 | 0 |
| 48 | 3.026906 | 5.381166 | 47.98206 | 0 | 0 | 0 | 0 | 0 |
| 49 | 21.71123 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table S3.** Percentage of the number of species that preferentially feed on terrestrial and aquatic insects, debris, plant material, algae and fish for each local network.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Omnivores** | **Invertivores** | **Detritivores** | **Herbivores** | **Algivores** | **Piscivores** |
| 01 | 0.50 | 0.13 | 0.25 | 0.00 | 0.00 | 0.13 |
| 02 | 0.23 | 0.46 | 0.15 | 0.08 | 0.00 | 0.00 |
| 03 | 0.18 | 0.53 | 0.29 | 0.00 | 0.00 | 0.00 |
| 04 | 0.00 | 0.08 | 0.15 | 0.00 | 0.08 | 0.54 |
| 05 | 0.00 | 0.78 | 0.22 | 0.00 | 0.00 | 0.00 |
| 06 | 0.07 | 0.45 | 0.20 | 0.18 | 0.04 | 0.04 |
| 07 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 08 | 0.10 | 0.33 | 0.18 | 0.08 | 0.00 | 0.31 |
| 09 | 0.00 | 0.20 | 0.00 | 0.20 | 0.60 | 0.00 |
| 10 | 0.06 | 0.38 | 0.19 | 0.13 | 0.00 | 0.25 |
| 11 | 0.00 | 0.78 | 0.22 | 0.00 | 0.00 | 0.00 |
| 12 | 0.07 | 0.33 | 0.15 | 0.21 | 0.07 | 0.17 |
| 13 | 0.15 | 0.31 | 0.38 | 0.08 | 0.08 | 0.00 |
| 14 | 0.36 | 0.45 | 0.14 | 0.05 | 0.00 | 0.00 |
| 15 | 0.00 | 0.53 | 0.33 | 0.07 | 0.00 | 0.07 |
| 16 | 0.06 | 0.39 | 0.06 | 0.28 | 0.00 | 0.22 |
| 17 | 0.07 | 0.50 | 0.29 | 0.14 | 0.00 | 0.00 |
| 18 | 0.29 | 0.57 | 0.14 | 0.00 | 0.00 | 0.00 |
| 19 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 20 | 0.19 | 0.13 | 0.23 | 0.35 | 0.00 | 0.10 |
| 21 | 0.00 | 0.57 | 0.00 | 0.43 | 0.00 | 0.00 |
| 22 | 0.43 | 0.00 | 0.29 | 0.14 | 0.14 | 0.00 |
| 23 | 0.00 | 0.70 | 0.10 | 0.10 | 0.00 | 0.10 |
| 24 | 0.06 | 0.82 | 0.06 | 0.00 | 0.00 | 0.06 |
| 25 | 0.18 | 0.71 | 0.06 | 0.00 | 0.00 | 0.06 |
| 26 | 0.00 | 0.70 | 0.10 | 0.10 | 0.05 | 0.05 |
| 27 | 0.14 | 0.68 | 0.00 | 0.03 | 0.14 | 0.03 |
| 28 | 0.10 | 0.68 | 0.16 | 0.00 | 0.00 | 0.06 |
| 29 | 0.57 | 0.00 | 0.29 | 0.00 | 0.14 | 0.00 |
| 30 | 0.13 | 0.47 | 0.40 | 0.00 | 0.00 | 0.00 |
| 31 | 0.00 | 0.67 | 0.22 | 0.00 | 0.11 | 0.00 |
| 32 | 0.09 | 0.35 | 0.03 | 0.23 | 0.05 | 0.26 |
| 33 | 0.27 | 0.45 | 0.00 | 0.09 | 0.00 | 0.18 |
| 34 | 0.05 | 0.90 | 0.00 | 0.05 | 0.00 | 0.00 |
| 35 | 0.05 | 0.70 | 0.25 | 0.00 | 0.00 | 0.00 |
| 36 | 0.00 | 0.33 | 0.33 | 0.33 | 0.00 | 0.00 |
| 37 | 0.10 | 0.29 | 0.35 | 0.10 | 0.03 | 0.13 |
| 38 | 0.00 | 0.71 | 0.00 | 0.00 | 0.29 | 0.00 |
| 39 | 0.00 | 0.00 | 0.33 | 0.33 | 0.00 | 0.17 |
| 40 | 0.00 | 0.50 | 0.00 | 0.17 | 0.00 | 0.33 |
| 41 | 0.00 | 0.64 | 0.29 | 0.07 | 0.00 | 0.00 |
| 42 | 0.17 | 0.58 | 0.17 | 0.00 | 0.00 | 0.00 |
| 43 | 0.24 | 0.27 | 0.21 | 0.15 | 0.03 | 0.25 |
| 44 | 0.14 | 0.36 | 0.43 | 0.00 | 0.00 | 0.07 |
| 45 | 0.39 | 0.39 | 0.00 | 0.17 | 0.00 | 0.00 |
| 46 | 0.00 | 0.50 | 0.37 | 0.12 | 0.00 | 0.00 |
| 47 | 0.00 | 0.86 | 0.06 | 0.06 | 0.00 | 0.00 |
| 48 | 0.22 | 0.33 | 0.33 | 0.11 | 0.11 | 0.00 |
| 49 | 0.00 | 0.66 | 0.22 | 0.00 | 0.11 | 0.00 |
| **Mean** | **0.11** | **0.49** | **0.17** | **0.09** | **0.04** | **0.07** |

**Table S4.** Network descriptors used in the study. Network metrics follow May 1973, Tilman 1996; Dunne et al., 2002; May 1973, Stouffer & Bascompte 2011; Almeida‐Neto, et al., 2008.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Nestedness (*NODF)*** | ***Modularity (Q)*** | **Specialization (*H2’)*** | **Number of links** | **Number of species** | **Link density** |
| 01 | 59.29 | 0.2 | 0.29 | 21.41 | 8 | 13.08 |
| 02 | 34.43 | 0.15 | 0.43 | 24.07 | 13 | 16.69 |
| 03 | 20.17 | 0.36 | 0.53 | 3.78 | 17 | 6.85 |
| 04 | 5.66 | 0.65 | 0.99 | 1.78 | 13 | 2.5 |
| 05 | 52.16 | 0.12 | 0.52 | 5.75 | 9 | 6.48 |
| 06 | 31.82 | 0.18 | 0.66 | 5.99 | 71 | 21.17 |
| 07 | 18.44 | 0.48 | 0.82 | 4.81 | 6 | 3.76 |
| 08 | 25.71 | 0.23 | 0.73 | 4.11 | 39 | 12.01 |
| 09 | 16.77 | 0.29 | 0.83 | 6.76 | 5 | 4.97 |
| 10 | 27.49 | 0.3 | 0.65 | 6.94 | 31 | 9.61 |
| 11 | 45.73 | 0.14 | 0.5 | 12.64 | 9 | 9.36 |
| 12 | 19.62 | 0.27 | 0.65 | 5.22 | 75 | 18.19 |
| 13 | 29.4 | 0.2 | 0.67 | 3.49 | 13 | 5.57 |
| 14 | 49.25 | 0.14 | 0.42 | 8.52 | 22 | 13.01 |
| 15 | 38.71 | 0.2 | 0.74 | 5.14 | 15 | 7.6 |
| 16 | 27.66 | 0.23 | 0.63 | 6.45 | 18 | 8.09 |
| 17 | 32.22 | 0.18 | 0.57 | 18.68 | 14 | 13.65 |
| 18 | 20.61 | 0.3 | 0.62 | 9 | 7 | 6.3 |
| 19 | 22.01 | 0.4 | 0.54 | 8.57 | 11 | 6.39 |
| 20 | 37.49 | 0.2 | 0.64 | 5.15 | 32 | 11.59 |
| 21 | 40.98 | 0.13 | 0.37 | 15.42 | 7 | 10.37 |
| 22 | 60.71 | 0.21 | 0.46 | 4.79 | 7 | 4.86 |
| 23 | 44.28 | 0.19 | 0.47 | 8.02 | 10 | 7.26 |
| 24 | 43.84 | 0.17 | 0.37 | 10.17 | 17 | 10.77 |
| 25 | 31.57 | 0.2 | 0.5 | 11.11 | 15 | 10 |
| 26 | 32.61 | 0.17 | 0.58 | 5.86 | 20 | 10.06 |
| 27 | 38.21 | 0.16 | 0.59 | 6.21 | 37 | 15.17 |
| 28 | 35.99 | 0.09 | 0.35 | 7.67 | 50 | 24.65 |
| 29 | 24.93 | 0.2 | 0.43 | 16.5 | 7 | 10.69 |
| 30 | 26.39 | 0.15 | 0.4 | 5.63 | 15 | 9.02 |
| 31 | 9.8 | 0.49 | 0.86 | 2.12 | 9 | 2.62 |
| 32 | 30.05 | 0.23 | 0.72 | 6.28 | 66 | 19.16 |
| 33 | 46.11 | 0.22 | 0.42 | 30.81 | 11 | 18.47 |
| 34 | 32.42 | 0.22 | 0.41 | 2.41 | 21 | 9.25 |
| 35 | 37.05 | 0.28 | 0.81 | 7.36 | 20 | 8.51 |
| 36 | 63.57 | 0.17 | 0.6 | 5.53 | 6 | 5.07 |
| 37 | 21.73 | 0.26 | 0.61 | 10.1 | 31 | 11.91 |
| 38 | 13.33 | 0.37 | 0.7 | 10.91 | 7 | 7.11 |
| 39 | 27.78 | 0.4 | 0.78 | 3.84 | 6 | 3.42 |
| 40 | 36.58 | 0.15 | 0.63 | 6.46 | 6 | 5.54 |
| 41 | 23.59 | 0.29 | 0.82 | 3.78 | 28 | 8.91 |
| 42 | 33.32 | 0.24 | 0.33 | 13.23 | 12 | 9.86 |
| 43 | 30.53 | 0.21 | 0.64 | 4.31 | 99 | 29.1 |
| 44 | 46.25 | 0.18 | 0.59 | 7.6 | 14 | 8.44 |
| 45 | 39.63 | 0.14 | 0.37 | 9.56 | 28 | 15.18 |
| 46 | 36.46 | 0.22 | 0.7 | 11.84 | 16 | 9.76 |
| 47 | 40.3 | 0.09 | 0.46 | 5.31 | 15 | 9.19 |
| 48 | 49.45 | 0.3 | 0.75 | 5.63 | 9 | 5.42 |
| 49 | 10.42 | 0.52 | 0.86 | 2.44 | 9 | 2.67 |

**Table S5.** Pearson’s correlation among the network descriptors

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Nestedness (*NODFzscore*)** | **Modularity (*Qzscore*)** | **Specialiation (*H2’*)** | **Number of Links** | **Number of species** | **Link density** |
| **Nestedness (*NODFzscore*)** | 1.0 | -0.70 | -0.57 | 0.30 | -0.12 | 0.16 |
| **Modularity (*Qzscore*)** |  | 1.0 | 0.71 | -0.32 | -0.16 | -0.49 |
| **Specialiation (*H2’*)** |  |  | 1.0 | -0.53 | 0.07 | -0.37 |
| **Number of Links** |  |  |  | 1.0 | -0.22 | 0.33 |
| **Number of species** |  |  |  |  | 1.0 | 0.80 |
| **Link density** |  |  |  |  |  | 1.0 |

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