

Table S1 – List of frugivores and plant species, with confirmed interactions (feeding events).

| | Class | Species | Common Name |
|-------------------|---------------|--|----------------------------|
| | Aves | <i>Bycanistes fistulator</i> (Cassin, 1850) | Piping Hornbill |
| | Aves | <i>Ceratogymna elata</i> (Temminck, 1831) | Yellow-Casqued Hornbill |
| | Aves | <i>Cinnyricinclus leucogaster</i> (Boddaert, 1783) | Violet-Backed Starling |
| | Aves | <i>Corythaeola cristata</i> (Vieillot, 1816) | Great Blue Turaco |
| | Aves | <i>Lophoceros semifasciatus</i> (Hartlaub, 1855) | West African Pied Hornbill |
| | Aves | <i>Ploceus</i> sp. (Cuvier, 1816) | Weaver |
| Frugivores | Aves | <i>Pogonornis bidentatus</i> (Shawn, 1799) | Double-Toothed Barbet |
| | Aves | <i>Pycnonotus barbatus</i> (Desfontaines, 1789) | Common Bulbul |
| | Aves | <i>Tauraco persa</i> (Linnaeus, 1758) | Green Turaco |
| | Aves | <i>Treron calvus</i> (Temminck, 1811) | African Green-Pigeon |
| | Mammalia | <i>Cercopithecus mona</i> (Schreber, 1774) | Mona Monkey |
| | Mammalia | <i>Heliosciurus gambianus</i> (Ogilby, 1835) | Gambian Sun Squirrel |
| | Mammalia | <i>Pan troglodytes</i> (Blumenbach, 1775) | Chimpanzee |
| | Mammalia | <i>Ptilocolobus badius</i> (Kerr, 1792) | Western Red Colobus |
| | Liliopsida | <i>Elaeis guineensis</i> (Jacq., 1763) | African Oil Palm |
| | Magnoliopsida | <i>Antiaris toxicaria</i> (Pers.) Lesch., 1810 | Bark Cloth Tree |
| | Magnoliopsida | <i>Ceiba pentranda</i> (L.) Gaert., 1791 | Kapok Tree |
| Trees | Magnoliopsida | <i>Dialium guineense</i> (Willd., 1896) | Velvet Tamarind |
| | Magnoliopsida | <i>Ficus</i> sp. (L., 1753) | Fig Tree |
| | Magnoliopsida | <i>Parinari excelsa</i> (Sabine, 1824) | Guinea Plum |
| | Magnoliopsida | <i>Sterculia</i> sp. (L., 1753) | |
| | Magnoliopsida | <i>Strombosia pustulata</i> (Oliv., 1894) | Afina, Poé |

Table S2 – Sampling completeness of animal visitors recorded on fruiting trees, and of frugivore species, plant species and frugivore-fruiting tree pairwise interactions on the networks. Completeness calculations are based on the proportion of recorded species and interactions against that of the predicted theoretical value obtained with the non-parametric estimator Chao2.

| | Habitat | Species recorded | Chao2 estimator | Completeness (%) |
|--------------|----------------|-------------------------|------------------------|-------------------------|
| Visitors | Mature forest | 30 | 64.0 | 47% |
| | Forest edge | 20 | 25.9 | 77% |
| Frugivores | Mature forest | 12 | 16.0 | 81% |
| | Forest edge | 11 | 14.5 | 83% |
| Trees | Mature forest | 11 | 12.9 | 78% |
| | Forest edge | 11 | 11.9 | 84% |
| Interactions | Mature forest | 25 | 95 | 26% |
| | Forest edge | 18 | 25.9 | 69% |

Table S3 - Species level descriptors calculated for mature forest (top) and forest edge (bottom),
for each species of frugivore and plant.

| Mature forest species | | Degree | c | z | Species strength | d' | Krisk |
|------------------------------|-------------------------|---------------------|----------|----------|-------------------------|-----------|--------------|
| Frugivores | <i>B. fistulator</i> | 2 | 0.500 | -0.500 | 0.222 | 0.077 | 0.02 |
| | <i>C. elata</i> | 4 | 0.172 | 0.577 | 1.169 | 0.214 | 0.02 |
| | <i>C. mona</i> | 4 | 0.172 | 0.577 | 1.169 | 0.214 | 0.02 |
| | <i>C. cristata</i> | 2 | 0.426 | -0.500 | 0.361 | 0.248 | 0.02 |
| | <i>L. semifasciatus</i> | 4 | 0.543 | 1.265 | 0.917 | 0.193 | 0.02 |
| | <i>P. troglodytes</i> | 1 | 0.000 | NA | 1.000 | 1.000 | 0.01 |
| | <i>P. temminckii</i> | 1 | 0.000 | -1.155 | 0.077 | 0.000 | 0.01 |
| | <i>Ploceus sp.</i> | 2 | 0.483 | -0.949 | 0.189 | 0.000 | 0.02 |
| | <i>P. barbatus</i> | 3 | 0.382 | 0.316 | 0.598 | 0.157 | 0.02 |
| | Squirrels | 1 | 0.000 | -0.632 | 0.333 | 0.572 | 0.01 |
| | <i>T. persa</i> | 2 | 0.483 | -0.500 | 0.189 | 0.000 | 0.02 |
| | <i>T. calvus</i> | 2 | 0.408 | 1.500 | 0.778 | 0.479 | 0.02 |
| | Trees | <i>A. toxicaria</i> | 6 | 0.559 | 1.155 | 3.643 | 0.463 |
| <i>C. pentrandia</i> | | 3 | 0.000 | NA | 1.000 | 1.000 | 1.02 |
| <i>D. guineense</i> | | 1 | 0.000 | -0.577 | 0.286 | 0.000 | 0.01 |
| <i>Ficus sp.</i> | | 5 | 0.590 | 0.707 | 2.221 | 0.537 | 0.02 |
| <i>P. excelsa</i> | | 3 | 0.618 | -0.577 | 0.986 | 0.168 | 0.02 |
| <i>Sterculia sp.</i> | | 4 | 0.000 | -0.707 | 1.450 | 0.487 | 0.02 |
| <i>S. pustulata</i> | | 7 | 0.152 | NA | 2.414 | 0.052 | 0.02 |
| Forest edge species | | Degree | c | z | Species strength | d' | Krisk |
| Frugivores | <i>Ploceus sp.</i> | 3 | 0.057 | NA | 1.803 | 0.612 | 1.020 |
| | <i>C. mona</i> | 2 | 0.000 | NA | 1.000 | 0.729 | 0.010 |
| | <i>C. leucogaster</i> | 2 | 0.475 | 0.323 | 0.772 | 0.099 | 0.020 |
| | <i>C. cristata</i> | 1 | 0.000 | 0.323 | 0.500 | 0.120 | 0.010 |
| | <i>L. semifasciatus</i> | 2 | 0.444 | -0.707 | 0.158 | 0.389 | 0.020 |
| | <i>P. troglodytes</i> | 1 | 0.000 | -1.614 | 0.105 | 0.000 | 0.010 |
| | <i>P. bidentatus</i> | 2 | 0.236 | 0.707 | 0.544 | 0.308 | 0.020 |
| | <i>P. barbatus</i> | 2 | 0.475 | 1.291 | 1.500 | 0.141 | 0.020 |
| | Squirrels | 1 | 0.000 | -0.645 | 0.158 | 0.049 | 0.010 |
| | <i>T. persa</i> | 1 | 0.000 | NA | 0.053 | 1.000 | 0.010 |
| | <i>T. calvus</i> | 1 | 0.000 | 0.323 | 0.408 | 0.120 | 0.010 |
| | Trees | <i>A. toxicaria</i> | 3 | 0.632 | -0.707 | 1.583 | 0.575 |
| <i>C. pentrandia</i> | | 2 | 0.444 | -0.707 | 0.750 | 0.455 | 0.020 |
| <i>D. guineense</i> | | 1 | 0.000 | -0.707 | 0.250 | 0.226 | 0.010 |
| <i>E. guineensis</i> | | 1 | 0.000 | -0.707 | 0.333 | 0.387 | 0.010 |
| <i>Ficus sp.</i> | | 8 | 0.200 | NA | 6.083 | 0.512 | 4.020 |
| <i>Sterculia sp.</i> | | 2 | 0.000 | NA | 1.000 | 0.582 | 0.020 |
| <i>S. pustulata</i> | | 1 | 0.000 | NA | 1.000 | 1.000 | 0.010 |