

| Model          | Biodiversity measure | Slope   | $r^2$ | $p - value$              |
|----------------|----------------------|---------|-------|--------------------------|
| Broken – stick | $N_{\max}$           | 0.648   | 0.661 | $3.32 \times 10^{-292}$  |
|                | Evenness             | −0.0112 | 0.289 | $1.40 \times 10^{-93}$   |
|                | Skewness             | 0.0160  | 0.235 | $6.39 \times 10^{-74}$   |
| Log – series   | $N_{\max}$           | 0.769   | 0.713 | 0.0                      |
|                | Evenness             | −0.119  | 0.645 | $2.49 \times 10^{-280}$  |
|                | Skewness             | 0.0434  | 0.796 | 0.0                      |
| Lognormal      | $N_{\max}$           | 0.943   | 0.562 | $2.51 \times 10^{-223}$  |
|                | Evenness             | −0.486  | 0.523 | $1.08 \times 10^{-200}$  |
|                | Skewness             | 0.135   | 0.537 | $1.27 \times 10^{-208}$  |
| Zipf           | $N_{\max}$           | 0.955   | 0.520 | $3.67 \times 10^{-199}$  |
|                | Evenness             | −0.578  | 0.564 | $9.09 \times 10^{-225}$  |
|                | Skewness             | 0.0949  | 0.345 | $2.047 \times 10^{-115}$ |