Table . Spearman rank correlation coefficients (rs) for the best individual acoustic index and random forest model predictions.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Vertebrate Grouping | Biodiversity measure | Individual Acoustic Indices | | Random forest |
| rs | Index | rs |
| All | richness | 0.68 | SPD | 0.76 |
| shannon | 0.55 | ACT | 0.63 |
| count | 0.71 | ACI | 0.81 |
| Non-avian | richness | 0.59 | HFC | 0.72 |
| shannon | 0.44 | HFC | 0.6 |
| count | 0.59 | NDSI | 0.64 |
| Birds | richness | 0.7 | CLS | 0.77 |
| shannon | 0.62 | CLS | 0.71 |
| count | 0.77 | MFC | 0.81 |
| Frogs | richness | 0.56 | SPD | 0.68 |
| shannon | 0.37 | SPD | 0.52 |
| count | 0.66 | SPD | 0.71 |