**Extended Data Table 4.** **Fit of the three global abundance distribution models on fish species observed in visual census and fish MOTUs detected with eDNA**. For each model, parameter values (standard deviation) are provided (intercept, slope, bending) along with the degree of freedom (df) and the Akaike’s information criterion (AIC).

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Visual census (Species)** | | | |  | **eDNA (MOTUs)** | | | |
| **Model** | **df** | **AIC** | **Intercept** | **Slope** | **Bending** |  | **AIC** | **Intercept** | **Slope** | **Bending** |
| **Log series** | 3 | 1078.7 | 293 (5.10-9) | -1 | 0.004 (2.10-4) |  | 306.7 | 736 (1.10-4) | -1 | 0.04 (0.002) |
| **Pareto** | 3 | 1074.5 | 275 (14) | -0.97 (0.01) | 0 |  | 333.6 | 1814 (9.10-5) | -1.64 (0.02) | 0 |
| **Pareto Bended** | 4 | 1076.4 | 287 (0.02) | -0.97 (0.01) | 0.006 (5.10-4) |  | 309.3 | 783 (7.10-4) | -1.03 (0.05) | 0.04 (0.006) |