Table S2 - Summary table of the zero hurdle count models relating ESEC scientific productivity to our set of explanatory variables.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Rank | Model | Age of establishment | Biome | Extent | Governance sphere | Human population | Management council | Management plan | Travel time | Scientific investment | Years to first paper | AICc | ΔAICc | ωAIC |
| 1 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 439.44 | 0.00 | 0.06 |
|  | Count | X | X |  |  |  |  |  |  |  | X |  |  |  |
| 2 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 440.59 | 1.15 | 0.04 |
|  | Count | X |  |  |  |  |  |  |  |  | X |  |  |  |
| 3 | Zero hurdle | X |  |  |  |  | X | X | X |  |  | 440.93 | 1.50 | 0.03 |
|  | Count | X | X |  |  |  |  |  |  |  | X |  |  |  |
| 4 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 440.94 | 1.50 | 0.03 |
|  | Count | X | X |  |  |  | X |  |  |  | X |  |  |  |
| 5 | Zero hurdle | X |  |  |  |  | X | X |  | X |  | 441.14 | 1.70 | 0.03 |
|  | Count | X | X |  |  |  |  |  |  |  | X |  |  |  |
| 6 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 441.17 | 1.73 | 0.03 |
|  | Count | X | X |  |  | X |  |  |  |  | X |  |  |  |
| 7 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 441.29 | 1.85 | 0.03 |
|  | Count | X | X |  |  |  |  | X |  |  | X |  |  |  |
| 8 | Zero hurdle | X |  | X |  |  | X | X |  |  |  | 441.31 | 1.87 | 0.03 |
|  | Count | X | X |  |  |  |  |  |  |  | X |  |  |  |
| 9 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 441.57 | 2.13 | 0.02 |
|  | Count | X | X |  |  |  |  |  | X |  | X |  |  |  |
| 10 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 441.66 | 2.22 | 0.02 |
|  | Count | X |  |  |  |  |  |  | X |  | X |  |  |  |
| 11 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 441.72 | 2.29 | 0.02 |
|  | Count | X | X |  |  | X |  | X |  |  | X |  |  |  |
| 12 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 441.75 | 2.31 | 0.02 |
|  | Count | X | X |  | X |  |  |  |  |  | X |  |  |  |
| 13 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 441.76 | 2.32 | 0.02 |
|  | Count | X |  |  |  | X |  |  |  |  | X |  |  |  |
| 14 | Zero hurdle | X |  |  |  | X | X | X |  |  |  | 441.80 | 2.36 | 0.02 |
|  | Count | X | X |  |  |  |  |  |  |  | X |  |  |  |
| 15 | Zero hurdle | X |  |  |  |  | X | X | X |  |  | 441.82 | 2.38 | 0.02 |
|  | Count | X |  |  |  |  |  |  |  |  | X |  |  |  |

Table S2 (continued) - Summary table of the zero hurdle count models relating ESEC scientific productivity to our set of explanatory variables.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Rank | Model | Age of establishment | Biome | Extent | Governance sphere | Human population | Management council | Management plan | Travel time | Scientific investment | Years to first paper | AICc | ΔAICc | ωAIC |
| 16 | Zero hurdle | X |  |  | X |  | X | X |  |  |  | 441.84 | 2.40 | 0.02 |
|  | Count | X | X |  |  |  |  |  |  |  | X |  |  |  |
| 17 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 441.93 | 2.49 | 0.02 |
|  | Count | X |  |  |  | X |  | X |  |  | X |  |  |  |
| 18 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 441.94 | 2.50 | 0.02 |
|  | Count | X | X |  |  |  |  |  |  | X | X |  |  |  |
| 19 | Zero hurdle | X |  |  |  |  | X | X |  | X |  | 442.03 | 2.59 | 0.02 |
|  | Count | X |  |  |  |  |  |  |  |  | X |  |  |  |
| 20 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 442.06 | 2.62 | 0.02 |
|  | Count | X |  |  |  |  |  | X |  |  | X |  |  |  |
| 21 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 442.16 | 2.72 | 0.02 |
|  | Count | X | X | X |  |  |  |  |  |  | X |  |  |  |
| 22 | Zero hurdle | X |  | X |  |  | X | X |  |  |  | 442.19 | 2.75 | 0.02 |
|  | Count | X |  |  |  |  |  |  |  |  | X |  |  |  |
| 23 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 442.46 | 3.02 | 0.01 |
|  | Count | X |  |  |  | X |  | X | X |  | X |  |  |  |
| 24 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 442.50 | 3.06 | 0.01 |
|  | Count | X |  |  |  | X |  |  | X |  | X |  |  |  |
| 25 | Zero hurdle | X |  |  |  |  | X | X | X |  |  | 442.51 | 3.07 | 0.01 |
|  | Count | X | X |  |  |  | X |  |  |  | X |  |  |  |
| 26 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 442.64 | 3.20 | 0.01 |
|  | Count | X | X |  |  | X | X |  |  |  | X |  |  |  |
| 27 | Zero hurdle | X |  |  |  | X | X | X |  |  |  | 442.68 | 3.25 | 0.01 |
|  | Count | X |  |  |  |  |  |  |  |  | X |  |  |  |
| 28 | Zero hurdle | X |  |  |  |  | X | X |  | X |  | 442.72 | 3.28 | 0.01 |
|  | Count | X | X |  |  |  | X |  |  |  | X |  |  |  |
| 29 | Zero hurdle | X |  |  | X |  | X | X |  |  |  | 442.72 | 3.28 | 0.01 |
|  | Count | X |  |  |  |  |  |  |  |  | X |  |  |  |
| 30 | Zero hurdle | X |  |  |  |  | X | X | X |  |  | 442.74 | 3.30 | 0.01 |
|  | Count | X | X |  |  | X |  |  |  |  | X |  |  |  |

Table S2 (continued) - Summary table of the zero hurdle count models relating ESEC scientific productivity to our set of explanatory variables.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Rank | Model | Age of establishment | Biome | Extent | Governance sphere | Human population | Management council | Management plan | Travel time | Scientific investment | Years to first paper | AICc | ΔAICc | ωAIC |
| 31 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 442.82 | 3.38 | 0.01 |
|  | Count | X |  |  | X |  |  |  |  |  | X |  |  |  |
| 32 | Zero hurdle | X |  |  |  |  | X | X | X |  |  | 442.86 | 3.42 | 0.01 |
|  | Count | X | X |  |  |  |  | X |  |  | X |  |  |  |
| 33 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 442.86 | 3.42 | 0.01 |
|  | Count | X |  |  |  |  | X |  |  |  | X |  |  |  |
| 34 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 442.87 | 3.43 | 0.01 |
|  | Count | X | X |  |  |  | X | X |  |  | X |  |  |  |
| 35 | Zero hurdle | X |  | X |  |  | X | X |  |  |  | 442.88 | 3.45 | 0.01 |
|  | Count | X | X |  |  |  | X |  |  |  | X |  |  |  |
| 36 | Zero hurdle | X |  |  | X |  | X | X |  | X |  | 442.91 | 3.47 | 0.01 |
|  | Count | X | X |  |  |  |  |  |  |  | X |  |  |  |
| 37 | Zero hurdle | X |  |  |  |  | X | X |  | X |  | 442.95 | 3.51 | 0.01 |
|  | Count | X | X |  |  | X |  |  |  |  | X |  |  |  |
| 38 | Zero hurdle | X |  |  |  |  | X | X | X |  |  | 442.95 | 3.51 | 0.01 |
|  | Count | X |  |  |  |  |  |  | X |  | X |  |  |  |
| 39 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 442.98 | 3.54 | 0.01 |
|  | Count | X | X |  |  |  | X |  | X |  | X |  |  |  |
| 40 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 443.00 | 3.56 | 0.01 |
|  | Count | X |  | X |  |  |  |  |  |  | X |  |  |  |
| 41 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 443.04 | 3.61 | 0.01 |
|  | Count | X |  |  |  |  |  |  |  | X | X |  |  |  |
| 42 | Zero hurdle | X |  |  |  |  | X | X | X |  |  | 443.05 | 3.61 | 0.01 |
|  | Count | X |  |  |  | X |  |  |  |  | X |  |  |  |
| 43 | Zero hurdle | X |  |  |  |  | X | X |  | X |  | 443.06 | 3.63 | 0.01 |
|  | Count | X | X |  |  |  |  | X |  |  | X |  |  |  |
| 44 | Zero hurdle | X |  |  |  |  | X | X | X | X |  | 443.06 | 3.63 | 0.01 |
|  | Count | X | X |  |  |  |  |  |  |  | X |  |  |  |
| 45 | Zero hurdle | X |  |  |  | X | X | X |  | X |  | 443.07 | 3.63 | 0.01 |
|  | Count | X | X |  |  |  |  |  |  |  | X |  |  |  |

Table S2 (continued) - Summary table of the zero hurdle count models relating ESEC scientific productivity to our set of explanatory variables.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Rank | Model | Age of establishment | Biome | Extent | Governance sphere | Human population | Management council | Management plan | Travel time | Scientific investment | Years to first paper | AICc | ΔAICc | ωAIC |
| 46 | Zero hurdle | X |  |  | X |  | X | X | X |  |  | 443.07 | 3.63 | 0.01 |
|  | Count | X | X |  |  |  |  |  |  |  | X |  |  |  |
| 47 | Zero hurdle | X |  |  |  | X | X | X | X |  |  | 443.10 | 3.66 | 0.01 |
|  | Count | X | X |  |  |  |  |  |  |  | X |  |  |  |
| 48 | Zero hurdle | X |  | X |  |  | X | X |  |  |  | 443.11 | 3.68 | 0.01 |
|  | Count | X | X |  |  | X |  |  |  |  | X |  |  |  |
| 49 | Zero hurdle | X |  |  |  |  | X | X | X |  |  | 443.14 | 3.70 | 0.01 |
|  | Count | X | X |  |  |  |  |  | X |  | X |  |  |  |
| 50 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 443.15 | 3.72 | 0.01 |
|  | Count | X |  |  |  |  |  | X | X |  | X |  |  |  |
| 51 | Zero hurdle | X |  |  |  |  | X | X |  | X |  | 443.16 | 3.72 | 0.01 |
|  | Count | X |  |  |  |  |  |  | X |  | X |  |  |  |
| 52 | Zero hurdle | X |  | X |  |  | X | X |  |  |  | 443.23 | 3.79 | 0.01 |
|  | Count | X | X |  |  |  |  | X |  |  | X |  |  |  |
| 53 | Zero hurdle | X |  | X |  |  | X | X |  | X |  | 443.23 | 3.80 | 0.01 |
|  | Count | X | X |  |  |  |  |  |  |  | X |  |  |  |
| 54 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 443.25 | 3.81 | 0.01 |
|  | Count | X | X |  |  | X | X | X |  |  | X |  |  |  |
| 55 | Zero hurdle | X |  | X |  |  | X | X | X |  |  | 443.25 | 3.82 | 0.01 |
|  | Count | X | X |  |  |  |  |  |  |  | X |  |  |  |
| 56 | Zero hurdle | X |  |  |  |  | X | X |  | X |  | 443.26 | 3.82 | 0.01 |
|  | Count | X |  |  |  | X |  |  |  |  | X |  |  |  |
| 57 | Zero hurdle | X |  |  |  |  | X | X |  |  |  | 443.28 | 3.84 | 0.01 |
|  | Count | X | X |  |  | X |  |  | X |  | X |  |  |  |
| 58 | Zero hurdle | X |  |  |  |  | X | X | X |  |  | 443.29 | 3.85 | 0.01 |
|  | Count | X |  |  |  | X |  | X |  |  | X |  |  |  |
| 59 | Zero hurdle | X |  |  |  |  | X | X | X |  |  | 443.32 | 3.88 | 0.01 |
|  | Count | X | X |  | X |  |  |  |  |  | X |  |  |  |
| 60 | Zero hurdle | X |  | X |  |  | X | X |  |  |  | 443.32 | 3.88 | 0.01 |
|  | Count | X |  |  |  |  |  |  | X |  | X |  |  |  |

Table S2 (continued) - Summary table of the zero hurdle count models relating ESEC scientific productivity to our set of explanatory variables.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Rank | Model | Age of establishment | Biome | Extent | Governance sphere | Human population | Management council | Management plan | Travel time | Scientific investment | Years to first paper | AICc | ΔAICc | ωAIC |
| 61 | Zero hurdle | X |  |  |  |  | X | X |  | X |  | 443.34 | 3.91 | 0.01 |
|  | Count | X | X |  |  |  |  |  | X |  | X |  |  |  |
| 62 | Zero hurdle | X |  |  |  |  | X | X | X |  |  | 443.35 | 3.91 | 0.01 |
|  | Count | X |  |  |  |  |  | X |  |  | X |  |  |  |
| 63 | Zero hurdle | X |  |  |  |  | X | X | X |  |  | 443.37 | 3.93 | 0.01 |
|  | Count | X | X |  |  | X |  | X |  |  | X |  |  |  |
| 64 | Zero hurdle | X |  |  |  | X | X | X |  |  |  | 443.38 | 3.94 | 0.01 |
|  | Count | X | X |  |  |  | X |  |  |  | X |  |  |  |
| 65 | Zero hurdle | X |  |  | X |  | X | X |  |  |  | 443.41 | 3.97 | 0.01 |
|  | Count | X | X |  |  |  | X |  |  |  | X |  |  |  |
| 66 | Zero hurdle | X |  | X |  |  | X | X |  |  |  | 443.43 | 3.99 | 0.01 |
|  | Count | X |  |  |  | X |  |  |  |  | X |  |  |  |