








| | Simulated | Mosquitos | Eucalypts | Frogs | Fungi | Aravo | Mites |
|--------------------------------|--|--|--|--|---|--|--|
| data type | presence-absence | presence-absence | presence-absence | presence-absence | presence-absence | abundance | abundance |
| distribution | bernoulli | bernoulli | bernoulli | bernoulli | bernoulli | poisson | poisson |
| n.sites | 300 | 167 | 455 | 104 | 438 | 75 | 70 |
| n.species | 100 | 16 | 12 | 9 | 11 | 65 | 30 |
| n.latent | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| n.col.X | 3 | 14 | 8 | 4 | 13 | 3 | 12 |
| n.traits | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| n.obs | 30000 | 2672 | 5460 | 936 | 4818 | 4875 | 2100 |
| n.param | 1099 | 589 | 1029 | 261 | 1040 | 480 | 559 |
| n.mcmc | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 | 20000 |
| Computation time (secondes) | | | | | | | |
| boral | 51405 | 3285 | 1806 | 93 | 2736 | 218 | 363 |
| Hmsc | 264 | 62 | 77 | 42 | 87 | 275 | 187 |
| jSDM | 117 | 15 | 28 | 6 | 28 | 131 | 126 |
| Deviance | | | | | | | |
| boral | 25210 | 1385 | 2134 | 318 | 1847 | 5034 | 7036 |
| Hmsc | 25392 | 1768 | 2632 | 376 | 1836 | 5653 | 7059 |
| jSDM | 25275 | 1423 | 2159 | 296 | 1603 | 5028 | 6857 |
| RMSE | | | | | | | |
| boral | 0.081 | | | | | | |
| Hmsc | 0.079 | | | | | | |
| jSDM | 0.08 | | | | | | |
| Sensitivity | | | | | | | |
| boral | 0.8 | 0.73 | 0.8 | 0.61 | 0.76 | 0.72 | 0.84 |
| Hmsc | 0.8 | 0.69 | 0.71 | 0.61 | 0.79 | 0.66 | 0.84 |
| jSDM | 0.8 | 0.73 | 0.84 | 0.64 | 0.85 | 0.73 | 0.85 |
| Specificity | | | | | | | |
| boral | 0.8 | 0.93 | 0.96 | 0.94 | 0.96 | 0.9 | 0.85 |
| Hmsc | 0.8 | 0.9 | 0.94 | 0.95 | 0.96 | 0.88 | 0.84 |
| jSDM | 0.8 | 0.93 | 0.97 | 0.96 | 0.97 | 0.91 | 0.85 |
| TSS | | | | | | | |
| boral | 0.6 | 0.65 | 0.77 | 0.55 | 0.72 | 0.63 | 0.69 |
| Hmsc | 0.6 | 0.59 | 0.65 | 0.55 | 0.75 | 0.55 | 0.68 |
| jSDM | 0.6 | 0.66 | 0.81 | 0.61 | 0.82 | 0.63 | 0.69 |
| |  |  |  |  |  |  |  |