

| Modnames   | K  | AICc     | Delta_AICc | ModelLik | AICcWt   | LL       | Cum.Wt   |
|--|----|----------|------------|----------|----------|----------|----------|
| 19 year + site + year*site + coralrichness             | 18 | 1000.201 | 0          | 1        | 0.584902 | -479.742 | 0.584902 |
| 15 coralrichness + year + site                         | 11 | 1002.118 | 1.916632   | 0.383538 | 0.224332 | -489.19  | 0.809235 |
| 44 log(coralrichness) + site + year + year*site        | 18 | 1003.377 | 3.176266   | 0.204307 | 0.1195   | -481.33  | 0.928734 |
| 43 log(coralrichness) + site + year                    | 11 | 1005.173 | 4.971635   | 0.083257 | 0.048697 | -490.718 | 0.977432 |
| 9 coralrichness + site                                 | 10 | 1006.968 | 6.76691    | 0.03393  | 0.019846 | -492.765 | 0.997278 |
| 41 log(coralrichness) + site                           | 10 | 1011.378 | 11.17728   | 0.00374  | 0.002188 | -494.97  | 0.999465 |
| 22 site + coralrichness + coralrichness*site           | 17 | 1014.512 | 14.31087   | 0.000781 | 0.000457 | -488.16  | 0.999922 |
| 45 log(coralrichness) + site + log(coralrichness)*site | 17 | 1018.041 | 17.84021   | 0.000134 | 7.82E-05 | -489.925 | 1        |
| 36 log(cover) + site + year                            | 11 | 1033.795 | 33.59425   | 5.07E-08 | 2.97E-08 | -505.029 | 1        |
| 37 log(cover) + site + year + year*site                | 18 | 1037.827 | 37.62661   | 6.75E-09 | 3.95E-09 | -498.555 | 1        |
| 14 cover + year + site                                 | 11 | 1039.321 | 39.12001   | 3.20E-09 | 1.87E-09 | -507.792 | 1        |
| 17 year + site + year*site + cover                     | 18 | 1040.957 | 40.75589   | 1.41E-09 | 8.26E-10 | -500.12  | 1        |
| 16 year + site + year*site                             | 17 | 1046.703 | 46.50256   | 7.98E-11 | 4.67E-11 | -504.256 | 1        |
| 29 log(rugosity) + site + year                         | 11 | 1048.281 | 48.08012   | 3.63E-11 | 2.12E-11 | -512.272 | 1        |
| 30 log(rugosity) + site + year + year*site             | 18 | 1048.631 | 48.4298    | 3.05E-11 | 1.78E-11 | -503.957 | 1        |
| 18 year + site + year*site + rugosity                  | 18 | 1049.003 | 48.80196   | 2.53E-11 | 1.48E-11 | -504.143 | 1        |
| 13 rugosity + year + site                              | 11 | 1050.562 | 50.36064   | 1.16E-11 | 6.78E-12 | -513.412 | 1        |
| 34 log(cover) + site                                   | 10 | 1055.736 | 55.53512   | 8.72E-13 | 5.10E-13 | -517.149 | 1        |
| 6 year + site  | 10 | 1058.222 | 58.02136   | 2.52E-13 | 1.47E-13 | -518.392 | 1        |
| 8 cover + site   | 10 | 1061.013 | 60.81178   | 6.24E-14 | 3.65E-14 | -519.787 | 1        |
| 38 log(cover) + site + log(cover)*site                 | 17 | 1062.978 | 62.77737   | 2.33E-14 | 1.37E-14 | -512.393 | 1        |
| 31 log(rugosity) + site + log(rugosity)*site           | 17 | 1063.417 | 63.21574   | 1.87E-14 | 1.10E-14 | -512.612 | 1        |
| 27 log(rugosity) + site                                | 10 | 1063.689 | 63.48789   | 1.64E-14 | 9.57E-15 | -521.125 | 1        |
| 2 site   | 9  | 1063.751 | 63.55034   | 1.59E-14 | 9.27E-15 | -522.291 | 1        |
| 20 site + rugosity + rugosity*site                     | 17 | 1063.766 | 63.56522   | 1.57E-14 | 9.21E-15 | -512.787 | 1        |
| 21 site + cover + cover*site                           | 17 | 1064.802 | 64.60122   | 9.38E-15 | 5.48E-15 | -513.305 | 1        |
| 7 rugosity + site                                      | 10 | 1065.188 | 64.98676   | 7.73E-15 | 4.52E-15 | -521.875 | 1        |
| 12 coralrichness + year                                | 4  | 1070.056 | 69.85486   | 6.78E-16 | 3.97E-16 | -530.902 | 1        |
| 25 year + coralrichness + coralrichness*year           | 5  | 1072.156 | 71.95562   | 2.37E-16 | 1.39E-16 | -530.888 | 1        |
| 28 log(rugosity) + year                                | 4  | 1072.188 | 71.98715   | 2.33E-16 | 1.37E-16 | -531.968 | 1        |
| 5 coralrichness  | 3  | 1072.222 | 72.02084   | 2.30E-16 | 1.34E-16 | -533.036 | 1        |
| 42 log(coralrichness) + year                           | 4  | 1073.108 | 72.90665   | 1.47E-16 | 8.62E-17 | -532.428 | 1        |
| 32 log(rugosity) + year + log(rugosity)*year           | 5  | 1074.316 | 74.11516   | 8.06E-17 | 4.71E-17 | -531.968 | 1        |
| 49 power(coralrichness)                                | 3  | 1074.369 | 74.16805   | 7.85E-17 | 4.59E-17 | -534.109 | 1        |
| 46 log(coralrichness) + year + log(coralrichness)*year | 5  | 1075.023 | 74.82252   | 5.66E-17 | 3.31E-17 | -532.322 | 1        |
| 40 log(coralrichness)                                  | 3  | 1076.244 | 76.04338   | 3.07E-17 | 1.80E-17 | -535.047 | 1        |
| 10 rugosity + year                                     | 4  | 1083.784 | 83.58309   | 7.08E-19 | 4.14E-19 | -537.766 | 1        |
| 23 year + rugosity + rugosity*year                     | 5  | 1085.906 | 85.7051    | 2.45E-19 | 1.43E-19 | -537.763 | 1        |
| 35 log(cover) + year                                   | 4  | 1088.371 | 88.16996   | 7.15E-20 | 4.18E-20 | -540.06  | 1        |
| 39 log(cover) + year + log(cover)*year                 | 5  | 1090.457 | 90.25595   | 2.52E-20 | 1.47E-20 | -540.039 | 1        |
| 26 log(rugosity)                                       | 3  | 1093.113 | 92.91182   | 6.68E-21 | 3.90E-21 | -543.481 | 1        |
| 47 power(rugosity)                                     | 3  | 1095.139 | 94.93773   | 2.42E-21 | 1.42E-21 | -544.494 | 1        |
| 11 cover + year  | 4  | 1098.005 | 97.80433   | 5.78E-22 | 3.38E-22 | -544.877 | 1        |
| 24 year + cover + cover*year                           | 5  | 1099.894 | 99.69357   | 2.25E-22 | 1.31E-22 | -544.757 | 1        |
| 3 rugosity   | 3  | 1103.906 | 103.7053   | 3.02E-23 | 1.77E-23 | -548.878 | 1        |
| 33 log(cover)  | 3  | 1106.412 | 106.2109   | 8.64E-24 | 5.05E-24 | -550.131 | 1        |
| 48 power(cover)  | 3  | 1106.846 | 106.6454   | 6.95E-24 | 4.07E-24 | -550.348 | 1        |
| 4 cover  | 3  | 1116.344 | 116.1429   | 6.02E-26 | 3.52E-26 | -555.097 | 1        |
| 1 year   | 3  | 1150.783 | 150.5817   | 2.00E-33 | 1.17E-33 | -572.316 | 1        |