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| --- | --- | --- |
| **Model** | **AIC** | **logLIK** |
| Eaten ~ Algae \* Site + (1|Trial) | 546.4 | -258.2 |
| **Random effects** | **Variance** | **SD** |
| Trial | 0.08688 | 0.2947 |

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| ***Dictyota* sp.** | | | | | | | |
| Contrast | estimate | SE | df | t.ratio | p.value | Lower.CL | Upper.CL |
| Deep~Shallow | -1.466 | 0.731 | 642 | -2.006 | 0.045 | -2.901 | -0.031 |
| ***Laurencia* sp. 1** | | | | | | | |
| Contrast | estimate | SE | df | t.ratio | p.value | Lower.CL | Upper.CL |
| Deep~Shallow | -0.074 | 0.669 | 642 | -0.110 | 0.912 | -1.388 | 1.240 |
| ***Laurencia* sp. 2** | | | | | | | |
| Contrast | estimate | SE | df | t.ratio | p.value | Lower.CL | Upper.CL |
| Deep~Shallow | 0.236 | 0.499 | 642 | 0.473 | 0.637 | -0.744 | 1.216 |
| ***Lobophora* sp.** | | | | | | | |
| Contrast | estimate | SE | df | t.ratio | p.value | Lower.CL | Upper.CL |
| Deep~Shallow | -0.278 | 1.044 | 642 | -0.266 | 0.790 | -2.329 | 1.773 |
| ***Palisada* sp.** | | | | | | | |
| Contrast | estimate | SE | df | t.ratio | p.value | Lower.CL | Upper.CL |
| Deep~Shallow | 3.111 | 1.095 | 642 | 2.841 | 0.005 | 0.961 | 5.261 |
| ***Thalassia testudinum*** | | | | | | | |
| Contrast | estimate | SE | df | t.ratio | p.value | Lower.CL | Upper.CL |
| Deep~Shallow | 2.222 | 1.092 | 642 | 2.036 | 0.042 | 0.079 | 4.366 |
| ***Turbinaria* sp.** | | | | | | | |
| Contrast | estimate | SE | df | t.ratio | p.value | Lower.CL | Upper.CL |
| Deep~Shallow | -1.915 | 0.676 | 642 | -2.832 | 0.005 | -3.243 | -0.587 |

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| **Deep** | | | | | | | |
| Contrast | estimate | SE | df | t.ratio | p.value | Lower.CL | Upper.CL |
| *Dictyota* sp. *~ Palisada* sp. | -6.574 | 1.200 | 642 | -5.480 | 1.27E-06 | -10.122 | -3.026 |
| *Dictyota* sp. *~ Laurencia* sp. 2 | -2.890 | 0.699 | 642 | -4.135 | 0.000792 | -4.957 | -0.823 |
| *Dictyota* sp. ~ *Lobophora* sp. | -5.765 | 0.959 | 642 | -6.012 | 6.41E-08 | -8.602 | -2.929 |
| Dictyota sp. ~ *Laurencia* sp. 1 | -4.580 | 0.770 | 642 | -5.949 | 9.26E-08 | -6.857 | -2.303 |
| Dictyota sp. ~ *Thalassia testudinum* | -6.399 | 1.182 | 642 | -5.413 | 1.83E-06 | -9.896 | -2.902 |
| Dictyota sp. ~ *Turbinaria* sp. | -2.912 | 0.701 | 642 | -4.152 | 0.001 | -4.986 | -0.837 |
| *Palisada* sp. ~ *Laurencia* sp. 2 | 3.684 | 1.085 | 642 | 3.395 | 0.013 | 0.474 | 6.893 |
| *Palisada* sp. *~ Lobophora* sp. | 0.808 | 1.260 | 642 | 0.642 | 0.995 | -2.918 | 4.535 |
| *Palisada* sp. ~ *Laurencia* sp. 1 | 1.994 | 1.120 | 642 | 1.781 | 0.562 | -1.318 | 5.305 |
| *Palisada* sp. ~ *T*. *testudinum* | 0.175 | 1.453 | 642 | 0.120 | 1.000 | -4.124 | 4.474 |
| *Palisada* sp. ~ *Turbinaria* sp. | 3.662 | 1.077 | 642 | 3.399 | 0.013 | 0.476 | 6.848 |
| *Laurencia* sp. 2 *~ Lobophora* sp. | -2.876 | 0.821 | 642 | -3.503 | 0.009 | -5.304 | -0.447 |
| *Laurencia* sp. 2 ~ *Laurencia* sp. 1 | -1.690 | 0.571 | 642 | -2.961 | 0.050 | -3.379 | -0.002 |
| *Laurencia* sp. 2 ~ *T*. *testudinum* | -3.509 | 1.082 | 642 | -3.242 | 0.021 | -6.711 | -0.307 |
| *Laurencia* sp. 2 ~ *Turbinaria* sp. | -0.022 | 0.459 | 642 | -0.048 | 1.000 | -1.380 | 1.336 |
| *Lobophora* sp. ~ *Laurencia* sp. 1 | 1.185 | 0.857 | 642 | 1.383 | 0.811 | -1.350 | 3.720 |
| *Lobophora* sp. ~ *T*. *testudinum* | -0.633 | 1.256 | 642 | -0.504 | 0.999 | -4.349 | 3.082 |
| *Lobophora* sp. ~ *Turbinaria* sp. | 2.854 | 0.806 | 642 | 3.539 | 0.008 | 0.468 | 5.239 |
| *Laurencia* sp. 1 ~ *T*. *testudinum* | -1.819 | 1.124 | 642 | -1.618 | 0.671 | -5.144 | 1.507 |
| *Laurencia* sp. 1 ~ *Turbinaria* sp. | 1.668 | 0.551 | 642 | 3.028 | 0.041 | 0.039 | 3.298 |
| *T*. *testudinum* ~ *Turbinaria* sp. | 3.487 | 1.085 | 642 | 3.215 | 0.023 | 0.279 | 6.695 |

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| **Shallow** | | | | | | | |
| Contrast | estimate | SE | df | t.ratio | p.value | Lower.CL | Upper.CL |
| *Dictyota* sp. ~ *Palisada* sp. | -1.997 | 0.496 | 642 | -4.026 | 0.001 | -3.463 | -0.530 |
| *Dictyota* sp. ~ *Laurencia* sp. 2 | -1.188 | 0.496 | 642 | -2.395 | 0.202 | -2.655 | 0.279 |
| *Dictyota* sp. ~ *Lobophora* sp. | -4.577 | 0.818 | 642 | -5.597 | 6.76E-07 | -6.997 | -2.158 |
| Dictyota sp. ~ *Laurencia* sp. 1 | -3.188 | 0.627 | 642 | -5.087 | 9.91E-06 | -5.042 | -1.334 |
| Dictyota sp. ~ *Thalassia testudinum* | -2.710 | 0.535 | 642 | -5.071 | 1.07E-05 | -4.291 | -1.129 |
| Dictyota sp. ~ *Turbinaria* sp. | -3.361 | 0.646 | 642 | -5.205 | 5.43E-06 | -5.271 | -1.451 |
| *Palisada* sp. ~ *Laurencia* sp. 2 | 0.809 | 0.480 | 642 | 1.686 | 0.626 | -0.610 | 2.228 |
| *Palisada* sp. *~ Lobophora* sp. | -2.581 | 0.806 | 642 | -3.200 | 0.024 | -4.966 | -0.196 |
| *Palisada* sp. ~ *Laurencia* sp. 1 | -1.191 | 0.591 | 642 | -2.016 | 0.405 | -2.939 | 0.557 |
| *Palisada* sp. ~ *T*. *testudinum* | -0.714 | 0.496 | 642 | -1.439 | 0.780 | -2.181 | 0.754 |
| *Palisada* sp. ~ *Turbinaria* sp. | -1.365 | 0.658 | 642 | -2.075 | 0.369 | -3.310 | 0.580 |
| *Laurencia* sp. 2 *~ Lobophora* sp. | -3.390 | 0.821 | 642 | -4.131 | 0.001 | -5.816 | -0.963 |
| *Laurencia* sp. 2 ~ *Laurencia* sp. 1 | -2.000 | 0.641 | 642 | -3.121 | 0.031 | -3.896 | -0.104 |
| *Laurencia* sp. 2 ~ *T*. *testudinum* | -1.523 | 0.508 | 642 | -2.999 | 0.044 | -3.024 | -0.021 |
| *Laurencia* sp. 2 ~ *Turbinaria* sp. | -2.173 | 0.619 | 642 | -3.510 | 0.009 | -4.005 | -0.342 |
| *Lobophora* sp. ~ *Laurencia* sp. 1 | 1.390 | 0.858 | 642 | 1.619 | 0.670 | -1.149 | 3.928 |
| *Lobophora* sp. ~ *T*. *testudinum* | 1.867 | 0.805 | 642 | 2.318 | 0.237 | -0.515 | 4.249 |
| *Lobophora* sp. ~ *Turbinaria* sp. | 1.216 | 0.923 | 642 | 1.317 | 0.844 | -1.514 | 3.947 |
| *Laurencia* sp. 1 ~ *T*. *testudinum* | 0.477 | 0.574 | 642 | 0.831 | 0.982 | -1.222 | 2.177 |
| *Laurencia* sp. 1 ~ *Turbinaria* sp. | -0.173 | 0.777 | 642 | -0.223 | 1.000 | -2.472 | 2.125 |
| *T*. *testudinum* ~ *Turbinaria* sp. | -0.651 | 0.678 | 642 | -0.959 | 0.962 | -2.657 | 1.356 |