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| **Supplementary Table 6:** Cross-validation results determining the best power value for Inverse Distance Weighting interpolations of ecological parameters. |
| **Parameter** | **Power (α)** | $$R^{2}$$ | **RMSE** |
| Coral richness | 4.66 | ‎0.88 | 1.97 |
| Coral diversity | 4.55 | ‎0.88 | 0.19 |
| Coral disease abundance | 4.73 | ‎0.86 | 0.04 |
| Coral recruit density | 6.53 | ‎0.98 | 0.26 |
| % Live coral cover | 4.45 | ‎0.86 | 5.99 |
| % Macroalgae cover | 2.98 | ‎0.86 | 5.16 |
| % Cyanobacteria cover | 4.85 | ‎0.93 | 1.25 |
| % CCA cover | 5.05 | ‎0.92 | 4.02 |
| 1. *cervicornis* abundance
 | 2.5 | ‎0.80 | 0.18 |
| 1. *palmata* abundance
 | 4.58 | ‎0.94 | 0.78 |
| 1. *antillarum* abudance
 | 7.72 | ‎0.99 | 0.06 |
| Rugosity | 7.53 | ‎0.97 | 0.06 |