Table 5. Results of the generalized additive model (GAM) to assess the relationship between coral cover recovery (%) and attenuation coefficient (Kd490) from 2009 to 2012 at reef stations in Guánica, Mayagüez (10m), Ponce, and Isla Desecheo (15m). Sites were selected as random factors, while Kd490 values were fixed.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Coral recovery** | **Estimate** | **Std. Error** | **z-value** | **p-value** | **R-sq. (adj)** |
| Intercept | 4.08 | 0.10 | 42.04 | <0.0001 | 0.83 |
|  |  |  |  |  |  |
|  | Estimate | Std. Error | Chi.sq | p-value |  |
| s(Kd490) | 1.00 | 1.00 | 4.09 | 0.04 |  |
| s(site, random) | 2.55 | 3.00 | 38.42 | <0.0001 |  |
| AIC | 112.40 |  |  |  |  |