Table 2. Results of the generalized additive model (GAM) to assess the relationship between coral cover loss (%) and attenuation coefficient (Kd490) during 2006 and 2008 at reef stations in Guánica, Mayagüez (10m), Ponce, and Isla Desecheo (15m). Sites were selected as random factors, while Kd490 values were fixed.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Coral loss** | **Estimate** | **Std. Error** | **z-value** | **p-value** | **R-sq. (adj)** |
| Intercept |  |  |  |  | 0.90 |
|  | 3.77 | 0.12 | 30.23 | <0.0001 |  |
|  |  |  |  |  |  |
|  | Estimate | Std. Error | Chi.sq | p-value |  |
| s(Kd490) | 1.35 | 1.57 | 9.41 | 0.01 |  |
| s(site, random) | 2.60 | 3.00 | 28.14 | <0.0001 |  |
| AIC | 81.55 |  |  |  |  |