**Supplementary file 11**.

Regression models with hookworm prevalence, burden or mortality as response and chlorophyll-a mean concentrations as predictor.

Hookworm prevalence

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | df | AIC | p-value | Ad-R2 |
| Linear | 1 | 38.79183 | 0.08871 | 0.2343 |
| Parabolic | 2 | 35.84365 | 0.04604 | 0.4665 |
| Cubic | 3 | 37.76831 | 0.1269 | 0.3822 |

Hookworm burden

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | df | AIC | p-value | Ad-R2 |
| Linear | 1 | 105.681 | 0.2145 | 0.08331 |
| Parabolic | 2 | 103.7522 | 0.1235 | 0.2927 |
| Cubic | 3 | 105.5698 | 0.2649 | 0.1898 |

Hookworm mortality

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | df | AIC | p-value | Ad-R2 |
| Linear | 1 | 44.15772 | 0.02819 | 0.4059 |
| Parabolic | 2 | 37.76683 | 0.005674 | 0.7066 |
| Cubic | 3 | 39.67652 | 0.02304 | 0.6608 |