S1\_Table

Chlorophyll concentration (ln[Chla]) declined over time and varied with trophic treatment. There was a signficant temperature\*week interaction (Table S1.1). When we re-run the model using weeks 2-7, we see evidence of a slight increase in chlorophyll concentration over time (Table S1.2). Together these results suggest the negative trend in chlorophyll is drive by the drop in week 8, across all treatments. This is concurrent with a cooling event and a large storm.

Table S2. 1: Model selection results: Chlorophyll a variation over time and with trophic treatment, weeks 2-9.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Int TrophicLev | Week | TL\*Wk | df | logLik | AICc | d | w |
| CT1 2.54 + | -0.12 | + | 8 | -194.72 | 406.06 | 0.00 | 9.224069e-01 |
| CT2 2.82 + | -0.17 | NA | 6 | -199.33 | 411.02 | 4.97 | 7.698761e-02 |
| CT3 2.41 NA | -0.17 | NA | 4 | -206.27 | 420.71 | 14.66 | 6.054409e-04 |
| CT4 1.49 NA | NA | NA | 3 | -264.15 | 534.41 | 128.35 | 1.240275e-28 |

Table S2. 2: Model selection results: Chlorophyll a variation over time and with trophic treatment, weeks 2-7.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Int TrophicLev | Week | TL\*Wk | df | logLik | AICc | d | w |
| CT1s 1.91 + | 0.05 | + | 8 | -83.30 | 183.44 | 0.00 | 1.000000e+00 |
| CT2s 2.28 + | -0.03 | NA | 6 | -108.23 | 228.94 | 45.50 | 1.319628e-10 |
| CT3s 1.90 NA | -0.03 | NA | 4 | -117.12 | 242.47 | 59.03 | 1.517267e-13 |
| CT4s 1.76 NA | NA | NA | 3 | -119.11 | 244.36 | 60.92 | 5.905315e-14 |