|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table Sx**. Generalized additive models (GAM) testing treatment (burned vs. unburned) and type (< 63 μm, > 63 μm) and factor-smooth interaction effects on plankton C:N and percent sage-15N calculated from a two-member mixing model. Separate smoothers were fit for burned and unburned data, and anova tables were generated by *anova.gam*(). | | | | | |
| **Plankton C:N** | |  |  |  |  |
|  | *Effect* | *df / edf* | *Ref.df* | *F* | *p-value* |
| Time 1 | Treatment | 1 | – | 0.716 | 0.401 |
|  | Type | 1 | – | 1.870 | 0.177 |
|  | s(plant material) : burned | 2.655 | 3.260 | 3.495 | **0.019** |
|  | s(plant material) : unburned | 1.000 | 1.001 | 4.532 | **0.038** |
|  |  |  |  |  |  |
| Time 2 | Treatment | 1 |  | 2.615 | 0.112 |
|  | Type | 1 |  | 56.713 | **<0.001** |
|  | s(plant material) : burned | 5.031 | 6.026 | 19.885 | **<0.001** |
|  | s(plant material) : unburned | 2.050 | 2.532 | 5.331 | **0.004** |
|  |  |  |  |  |  |
| **Plankton % sage-15N** | |  |  |  |  |
| Time 1 | Treatment | 1 | – | 31.261 | **<0.001** |
|  | Type | 1 | – | 1.721 | 0.196 |
|  | s(plant material) : burned | 3.560 | 4.338 | 136.8 | **<0.001** |
|  | s(plant material) : unburned | 3.921 | 4.762 | 173.6 | **<0.001** |
|  |  |  |  |  |  |
| Time 2 | Treatment | 1 | – | 13.082 | **<0.001** |
|  | Type | 1 | – | 1.004 | 0.321 |
|  | s(plant material) : burned | 4.669 | 5.621 | 79.45 | **<0.001** |
|  | s(plant material) : unburned | 3.34 | 4.082 | 125.45 | **<0.001** |
| *Treatment* indicates the parametric term in GAM, *s(plant material)* is the smooth term for either burned or unburned treatments. *df / edf* column indicates either *df* (degrees of freedom) for parametric terms or *edf* (effective degrees of freedom) for smoother terms; *Ref.df* = reference degree of freedom, where dashes indicate NA for parametric terms. Significant effects (p<0.05) are in bold. | | | | | |