

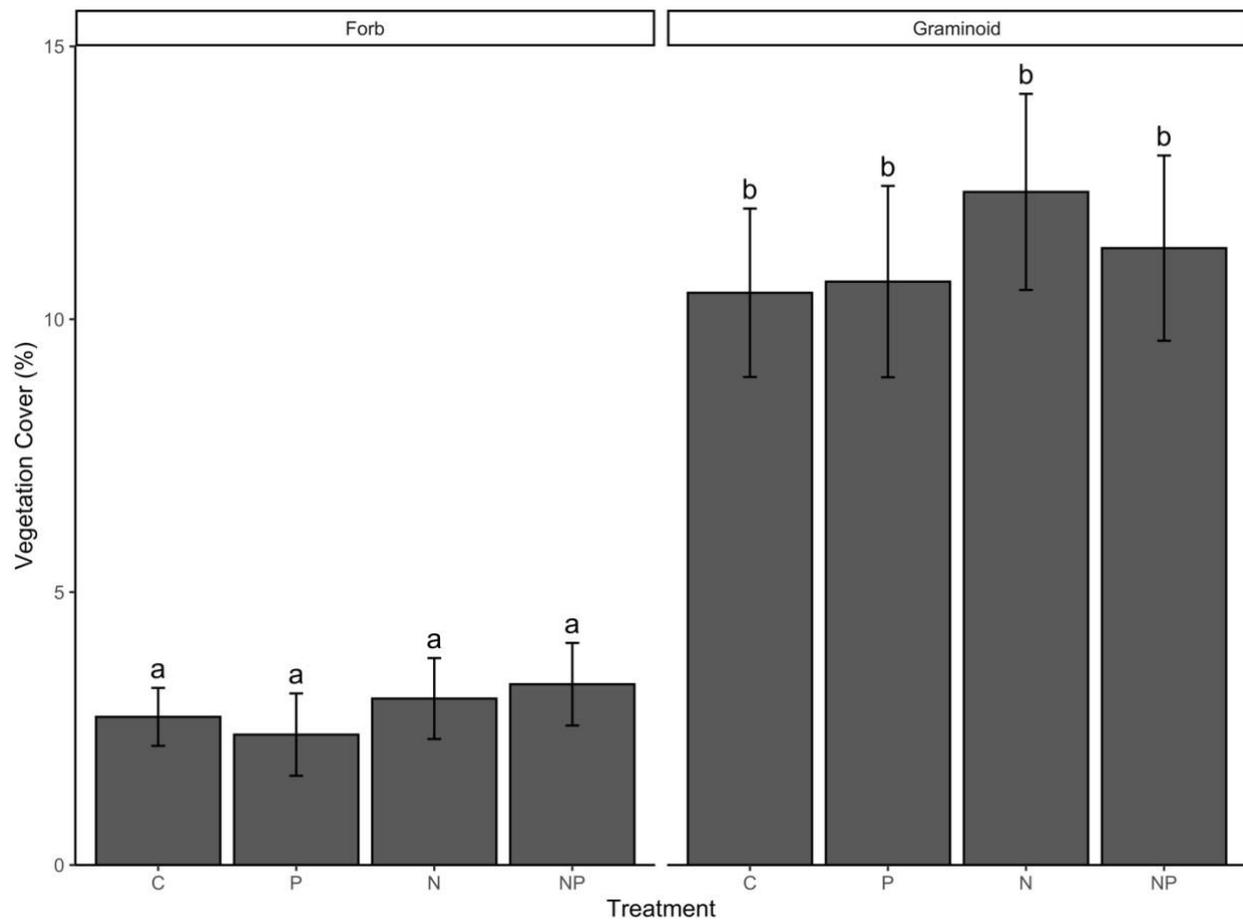
**Figure S1.** Non-metric multidimensional scaling (NMDS) of species composition grouped in convex hulls by nutrient treatment type on a barrier island grassland community. Points represent individual experimental plots in species space with stars indicating calculated centroids for each group. Colors and symbols are matched to nutrient treatment (C = control, P = phosphorus, N = nitrogen, and NP = nitrogen + phosphorus). Centroids can be viewed as mean community compositions.

**Table S1.** Directional correlations of each functional trait along PC1 and PC2 (Figure 3). Goodness-of-fit is represented as  $r^2$  and correlates with vector lengths in Figure 2. Bold indicates  $p < 0.05$ . Traits include height, specific leaf area (SLA), leaf carbon content (%C), leaf nitrogen content (%N), and leaf nitrogen isotope ratio ( $\delta^{15}\text{N}$ ).

Trait	PC 1	PC 2	$r^2$	$p$ -value
Height	-0.94	0.34	0.80	<b>0.001</b>
Specific leaf area (SLA)	-0.18	0.98	0.71	<b>0.001</b>
Leaf N content (%N)	-0.33	-0.94	0.61	<b>0.001</b>
Leaf C content (%C)	-0.86	-0.51	0.71	<b>0.001</b>
Leaf $^{15}\text{N}$	-0.99	0.15	0.61	<b>0.001</b>

**Table 2.** Pairwise comparisons via PERMANOVA results for species composition between nutrient enrichment treatments in coastal grassland. Bold indicates  $p < 0.05$ , using FDR correction.

Comparison	F-value	<i>p</i> -value
C vs P	3.14	<b>0.033</b>
C vs N	4.32	<b>0.021</b>
C vs. NP	8.89	<b>0.026</b>
P vs N	2.52	<b>0.033</b>
P vs NP	4.35	<b>0.021</b>
N vs NP	2.77	<b>0.033</b>



**Figure S2.** Mean percent cover  $\pm$  SE of forb and graminoid lifeforms in each nutrient treatment group on a barrier island grassland community. Bars are grouped by lifeform type as well as nutrient treatment level (C = control, P = phosphorus, N = nitrogen, and NP = nitrogen + phosphorus). Letter codes represent significant differences, such that bars with different letter codes are significantly different (Tukey HSD,  $p < 0.05$ ).