**[Griffiths](https://docs.google.com/document/d/1Hmlp39B4ErLKe3b8TO1vQpZW5r9T0sCYiy9b404jAr8/edit?usp=sharing) et al,**

**Figures and Tables**

**Table 1**. AIC comparison of inverse Gaussian generalized linear models for *Smithora* biomass at 12 different sites in choked pass.

model K AICc Delta AICc AICcWt Cum.Wt Log Likelihood



site 13 208.13 0.00 0.98 0.98 -89.15

LAI + site 25 215.66 7.54 0.02 1.00 -75.00

LAI 3 303.05 94.92 0.00 1.00 -148.41

null 2 303.16 95.04 0.00 1.00 -149.53

**Table 2.** Summary statistics from a two-way PERMANOVA investigating the effects of *Smithora* and transplant on bacterial community.

Df F.Model R2 Pr(>F)

Transplant 2 8.0805 0.26703 0.001 \*\*\*

*Smithora*\_status 2 7.7425 0.25586 0.001 \*\*\*

Transplant\*Smithora status 2 2.4375 0.08055 0.005 \*\*

**Table 3.** Table of bacterial results

Differences in diversity could be driving these changes

K AICc Delta\_AICc AICcWt Cum.Wt LL

transplant 3 239.44 0.00 1 1 -116.09

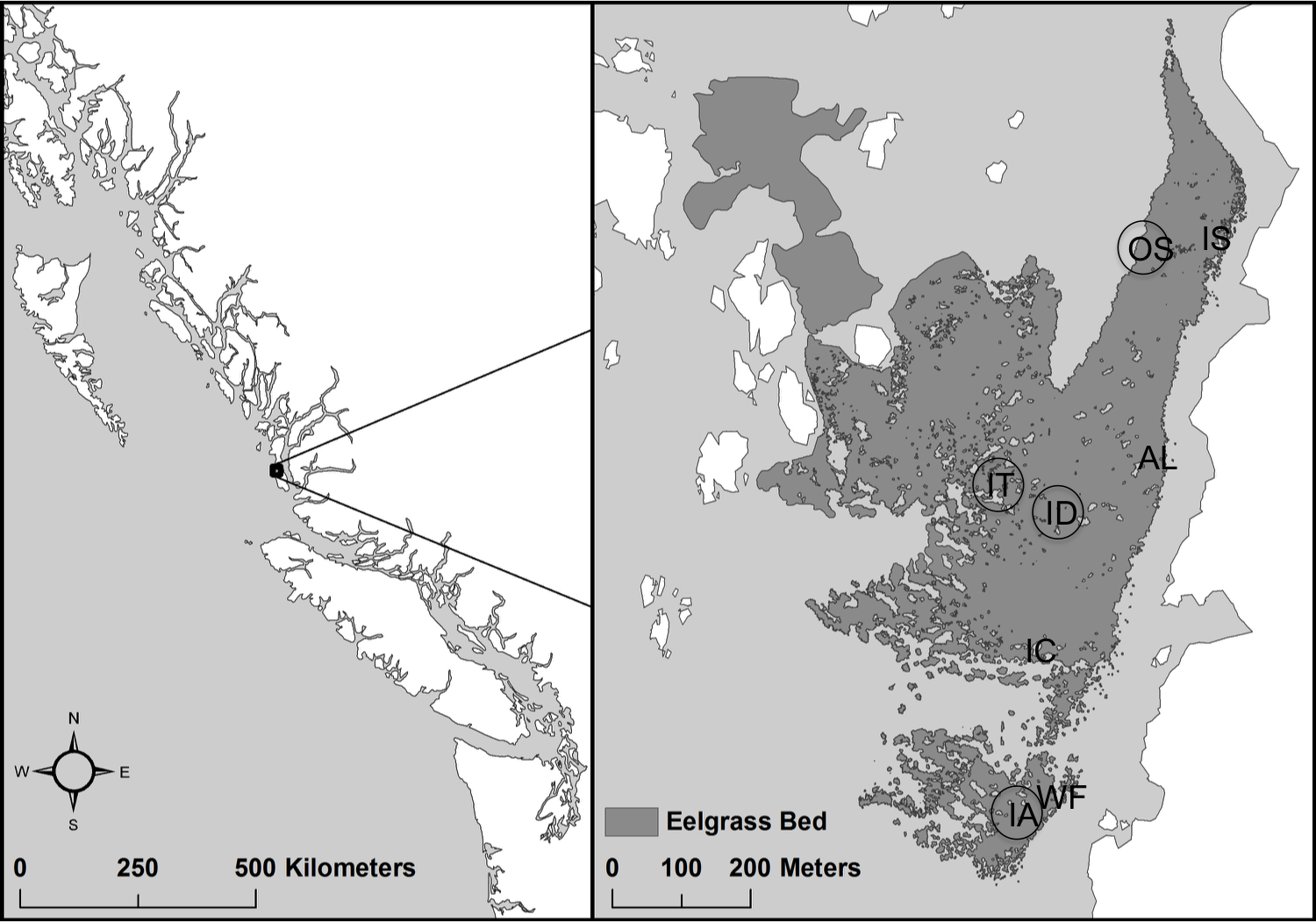
smithTrans 8 306.05 66.61 0 1 -141.75

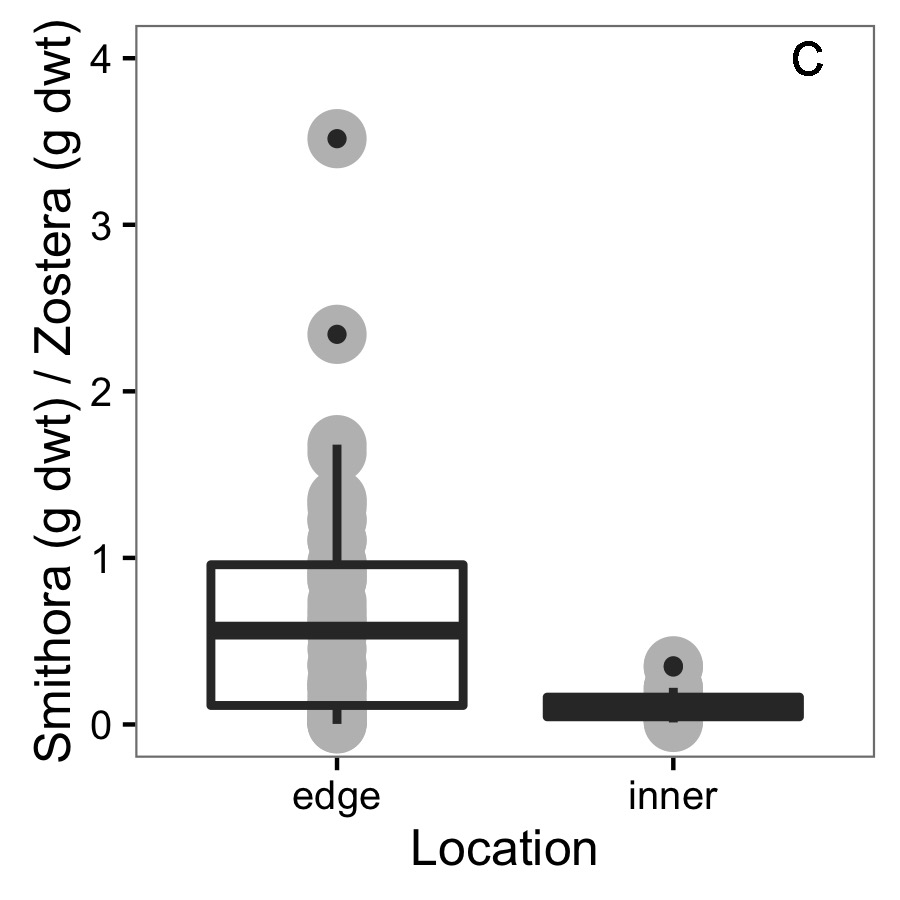
smith 4 312.62 73.18 0 1 -151.54

null 2 314.99 75.55 0 1 -155.28

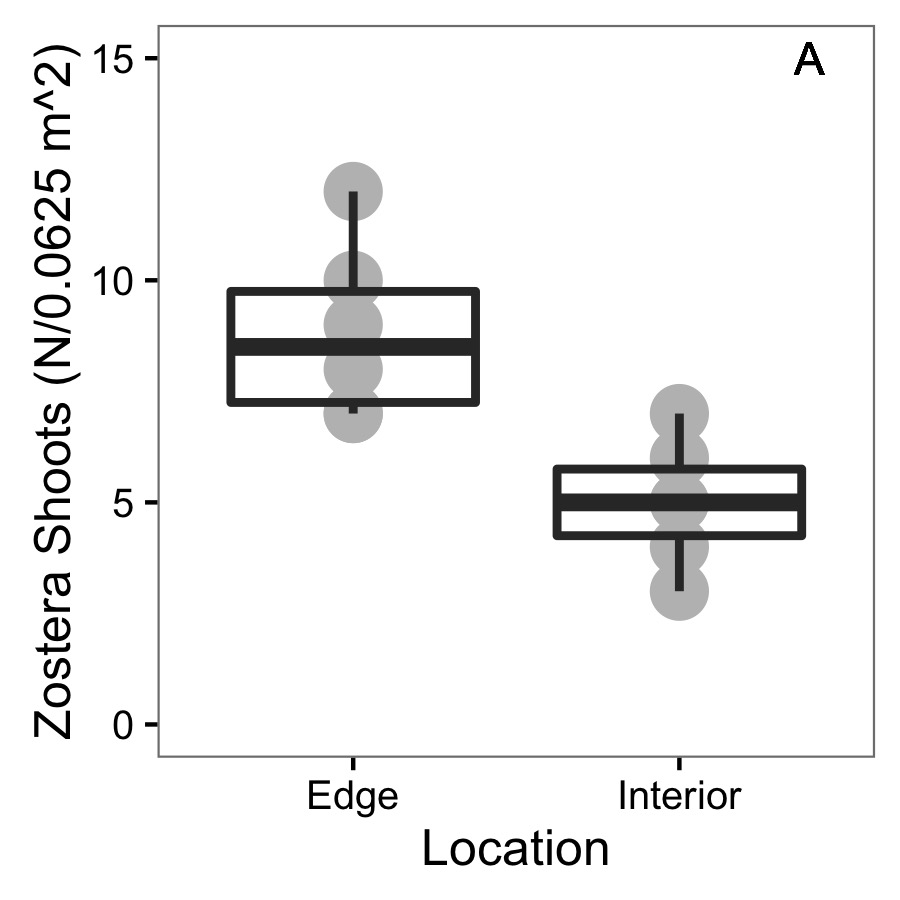
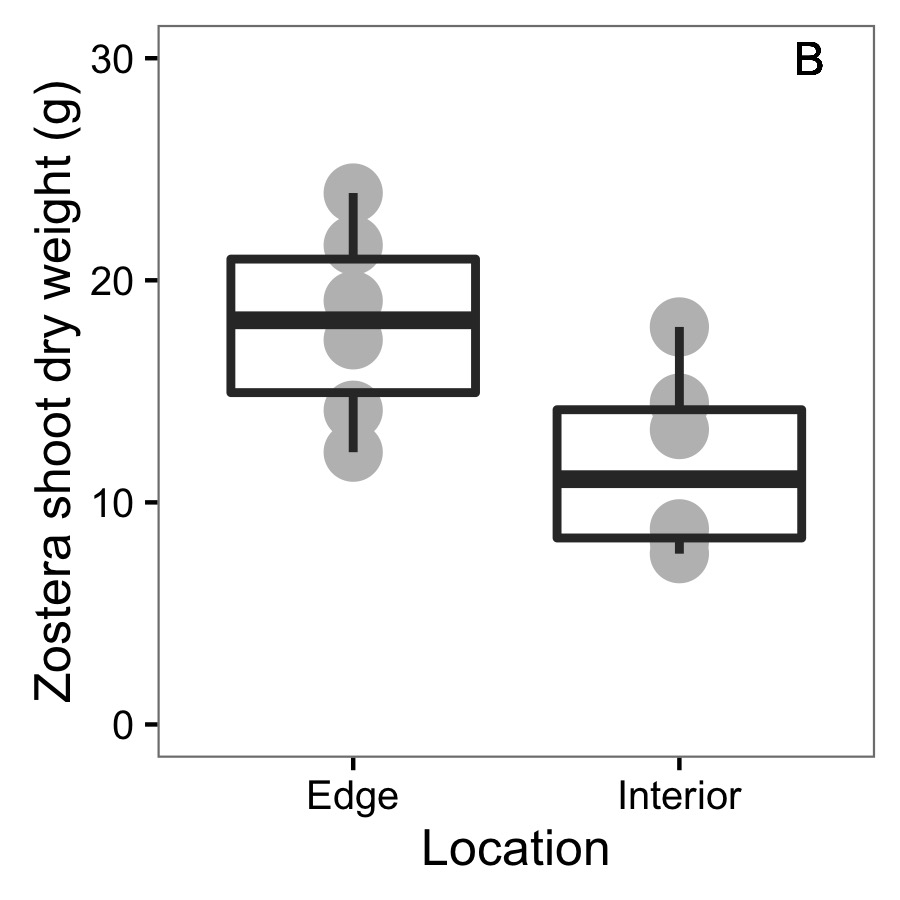
Transplant is the most important factor dictating diversity. It could also be part of the time component.

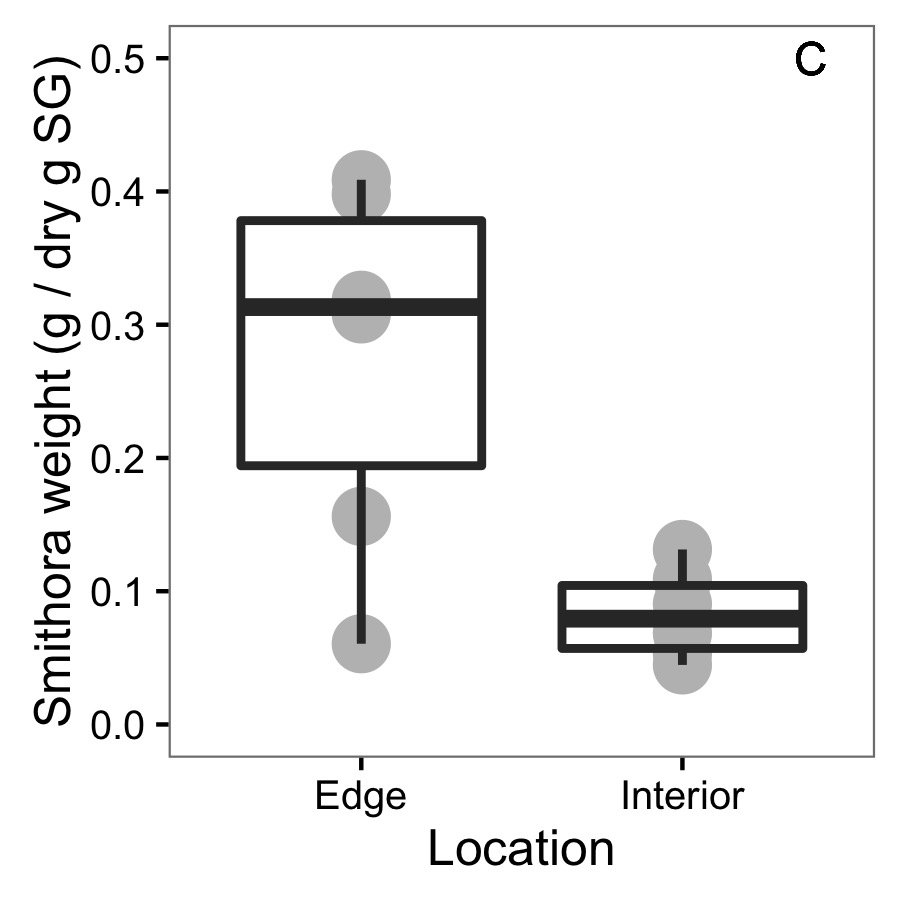
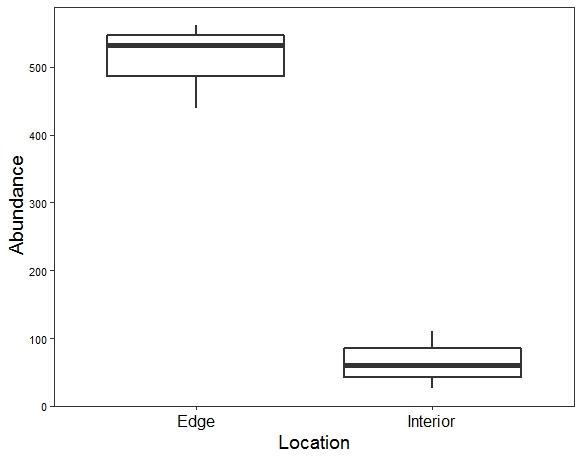
**FIGURE 1**. A) Study site at Calvert Island BC. B) Choked pass, site of experimental transplants and surveys of *Smithora* *naiadum* and *Zostera marina.* Twelve sites in the meadow were surveyed using 40 m transects. *Smithora* abundance (biomass? Visually estimated abundance?) on *Z. marina* at each sampled site is represented by red circles. C) Smithora biomass / Zostera biomass at edge vs interior (circled) sites (n = 4). The site of the reciprocal transplant is WF (lower left).



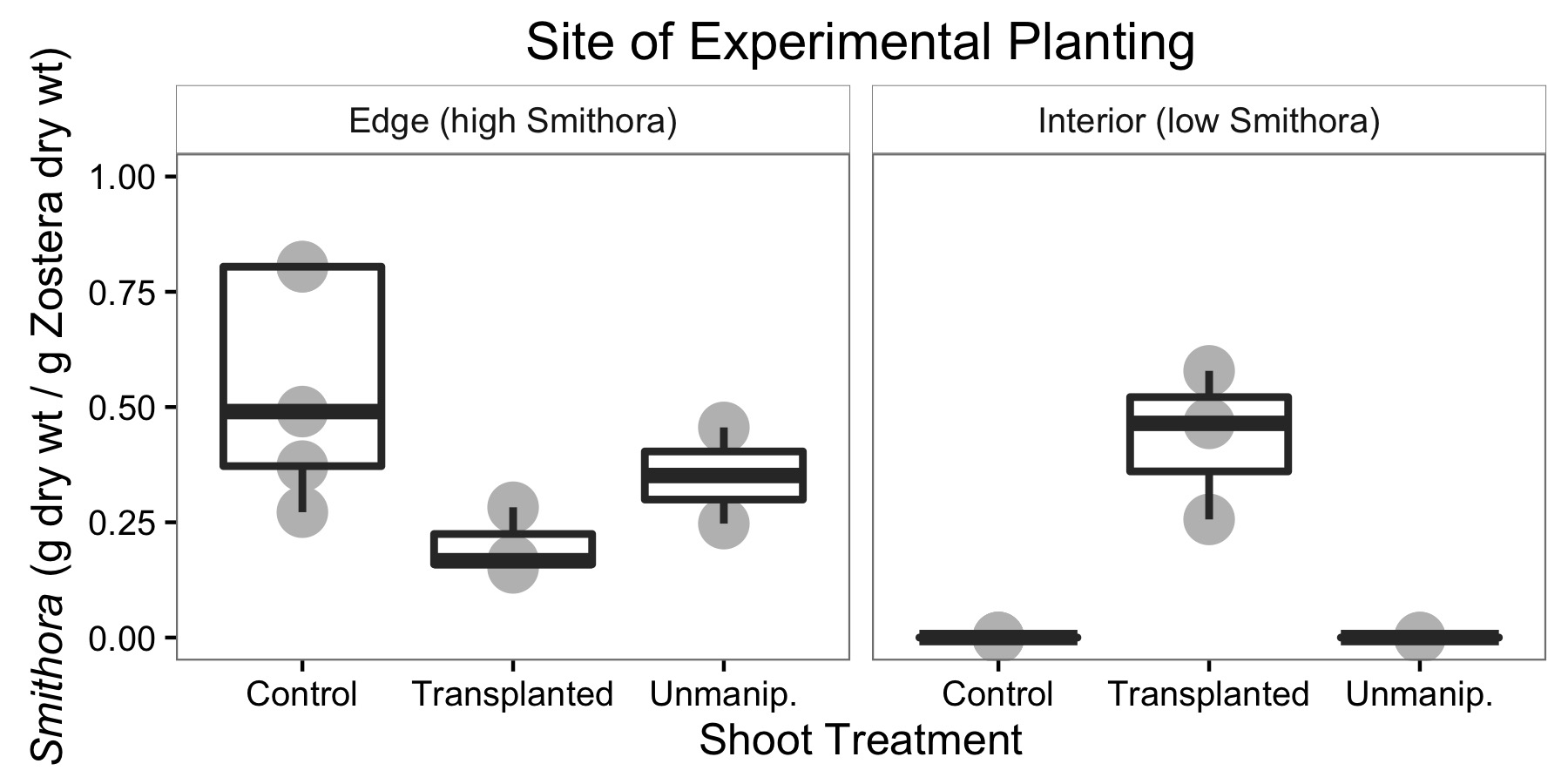


**Figure 2.** Conditions at the two experimental transplant sites (WF and IA) before the experiment. For six replicate samples of 0.0625 m2 of seagrass meadow, A) eelgrass *Z. marina* shoot density, B) *Z. marina* dry weight of above ground biomass, and C) *Smithora* biomass (per *Z. marina* shoot biomass). and D) grazer abundance varied significantly. See appendix for grazer composition comparison.

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**Figure 3**. Final *Smithora* abundance (g / g *Zostera* dry wt) for experimental and control shoots in the reciprocal transplant experiment. (*present stats here maybe?*)



**APPENDIX:**

Figure A1: Zostera shoot density at transplant sites (if we take it out of figure 2)

Figure A2: NMDS for grazer assemblages at transplant sites before experiment

Figure A3: bacterial results after experiment