Mussel abundance is driven by environmental factors across scales in the central Gulf of Alaska

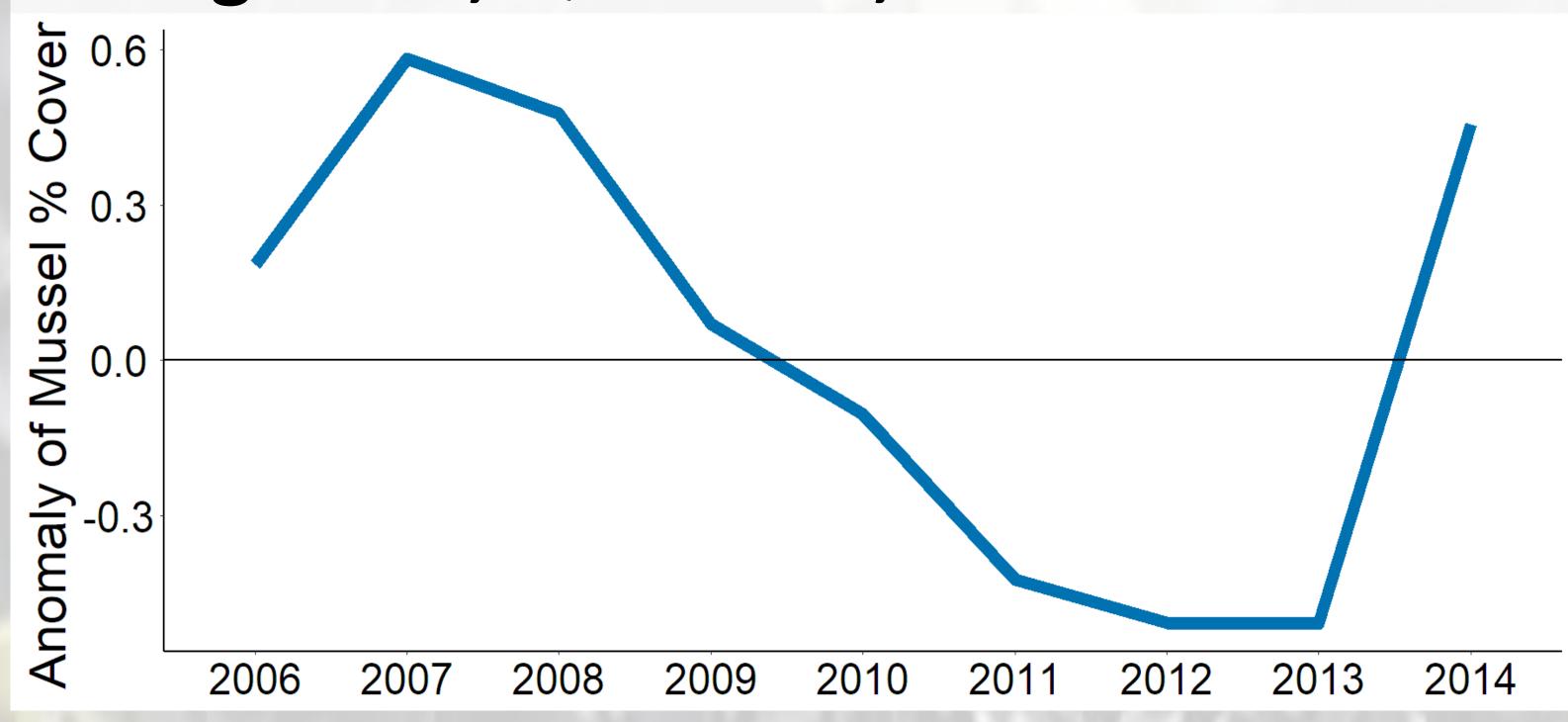




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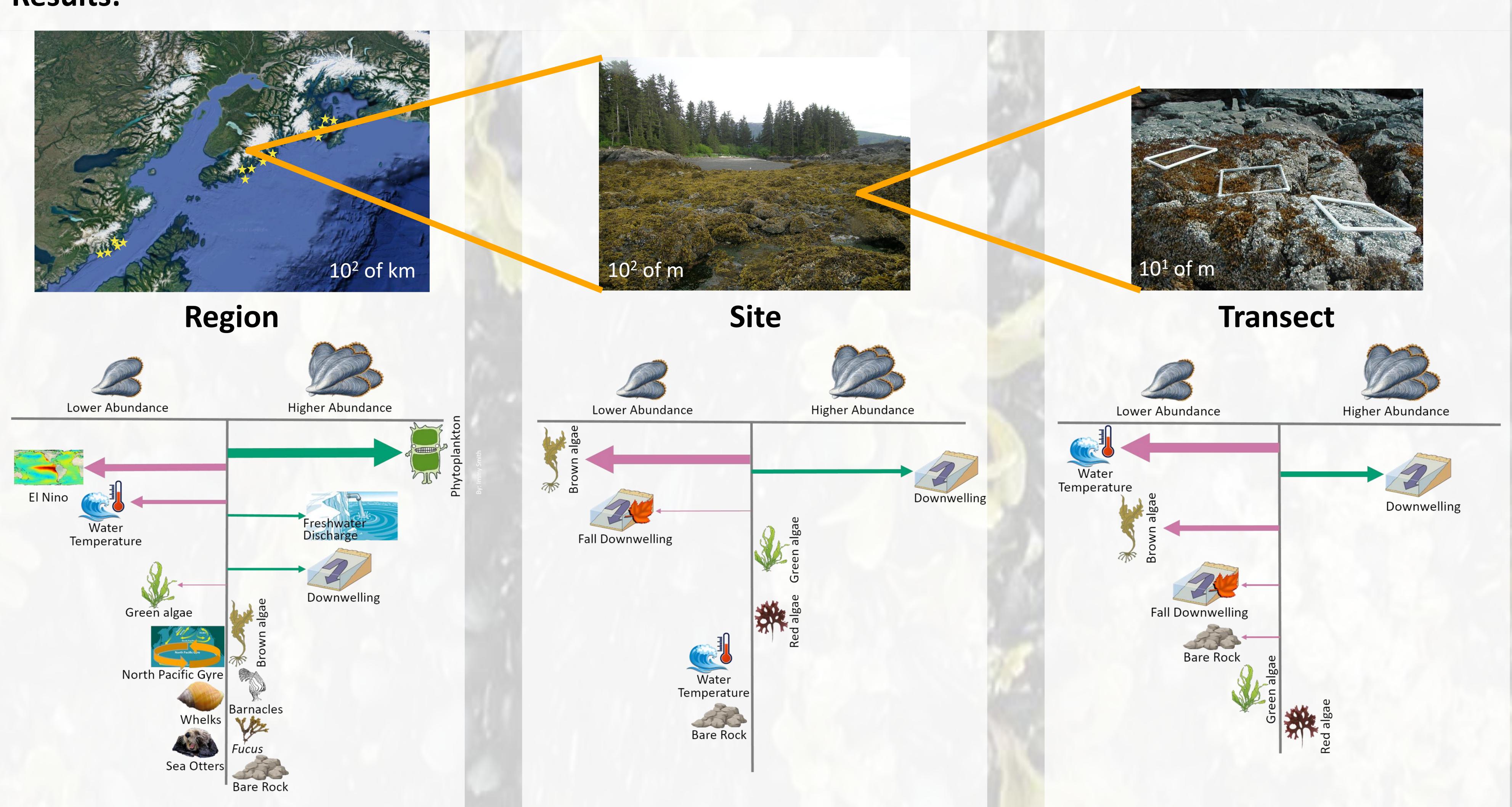
Mussels are a key part of the Gulf of Alaska (GOA) food web.

What drives long-term mussel abundance? Downwelling and other environmental factors.

The GOA is a highly connected large marine ecosystem.

Do drivers vary with the scale examined? Yes. In identity and importance.

Results:



Methods:



Collated data from many publicly available sources

Excluded covariates with pairwise correlations

Selected variables with PCA

Identified candidate models

Tested all models using GLMs

Selected best model using AIC