

BI-CO MATHEMATICS COLLOQUIUM

Sydne Record

Bryn Mawr College

“Scaling Up Biotic Interactions”

Monday, February 10, 2020

Talk at 4:00 – Park 338

Tea at 3:30 – Park 361, Math Lounge

Abstract:

Although it is recognized that ecological patterns are scale dependent, the exact scales over which specific ecological processes operate are still a matter of controversy. In particular, understanding the scales over which biotic interactions operate is critical for predicting changes in species distributions in the face of the ongoing biodiversity crisis. It has been hypothesized that biotic interactions operate predominately at fine grains, yet this conjecture has received relatively little empirical scrutiny. Dr Record will present recent research challenging the paradigm that biotic interactions only matter at local spatial scales using large scale ecological data sets collected by such entities as the National Ecological Observatory Network.

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