

Adriane Lam  
NIMBioS Short-term Visit Report

During my visit to NIMBioS, I worked with Dr. Nick Matzke modeling dispersal routes of invertebrate taxa. The Late Ordovician Richmondian Invasion took place into the Cincinnati Basin (Cincinnati area, Ohio) approximately 450 million years ago. This mass faunal migration involved the invasion of over 60 invertebrate genera into the area over a geologically short period. My recent analyses have modeled dispersal paths of the invasive taxa using Dr. Nick Matzke's R program BioGeoBEARS. During my visit to NIMBioS, I worked with Dr. Matzke to model distance and paleoclimate data in BioGeoBEARS to determine which factors most affected dispersal of benthic invertebrate taxa in deep time. Dr. Matzke and I, along with Dr. Alycia Stigall, plan to submit a paper with these analyses and results to the journal *Paleobiology* before the end of 2015.

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