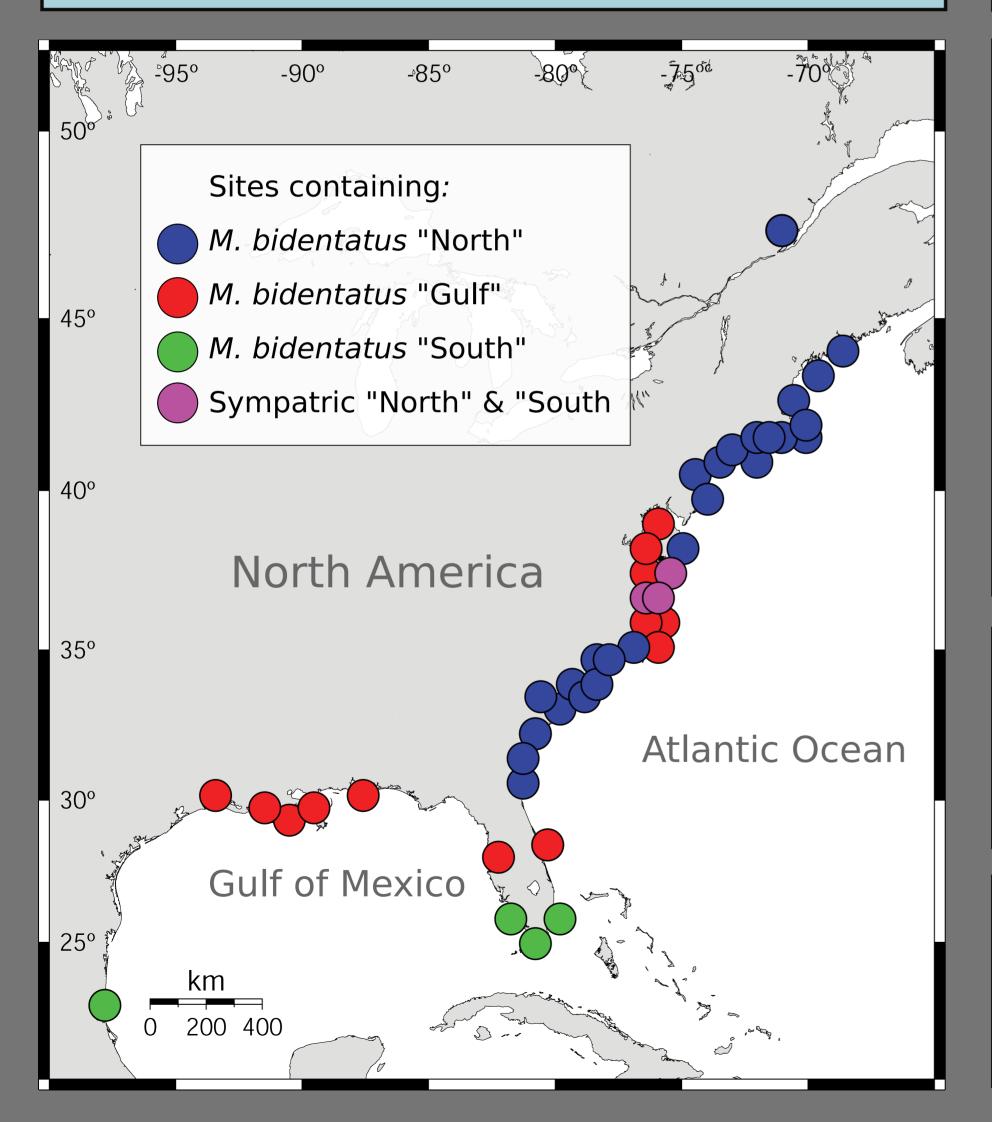
Physiological and genomic variation among cryptic species of a marsh snail (*Melampus bidentatus*)

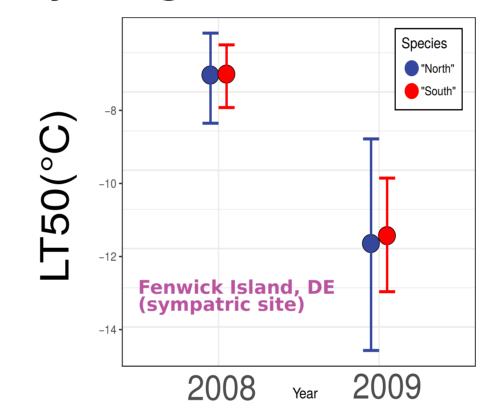
Alice B. Dennis & Thomas Inäbnit. University of Potsdam, Postdam, Germany

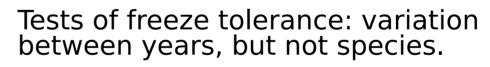
Cryptic species complex with differing range extents

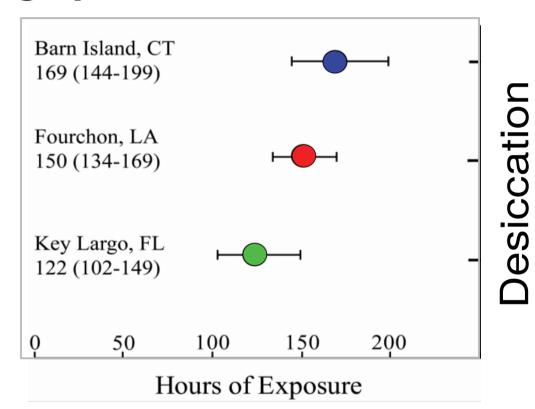


High dispersal via planktonic larvae Why different range extents?

Physiological differences among species?







Preliminary desiccation trials: nonsignificant trend

Genomic basis of differences?

- * Illumina-only sequencing (ca. 100x coverage) cannot reconstruct long contigs. PacBio HiFi in progress!
- * In 2021: transcriptomics of temperature and salinity/ desiccation

Structural genomic differences?

Work in 1966 did not know cryptic species, but identified different karyotypes in Georgia (n=38) and in Virginia (n=36)

