Introduction

1. Literature on species interactions at the community level neglected variation in either species, or the way they interact
2. Accounting for species interaction is needed to predict biogeo distribution and response to global changes
3. Accounting for micro-evolutionary changes is important to predict response to global changes as well
4. The establishment of interactions relies on traits (mis)matching, so the consequences of biogeo/evo changes must be done in a trait-explicit framework

The state of the art

Network theory:

Biogeography:

Coevolution:

The current overlap

The good: biogeographic perspectives on coevolution

The bad: understanding network variation over space

The ugly: evolution of networks, evolution in networks

The road to synthesis

Scaling-up coevolutionary concepts

Scaling-down the species interaction network paradigm

Perspectives