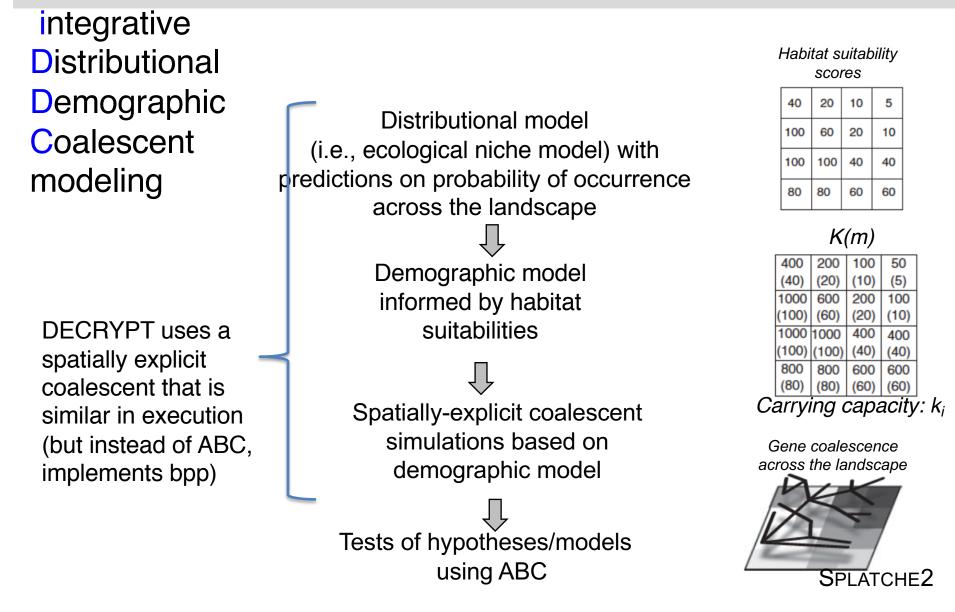
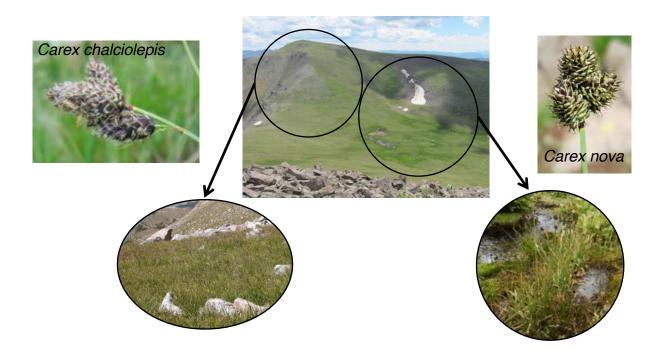
## iDDC: Generate species-specific expectations for patterns of genetic variation

He, Edwards & Knowles, Evolution 2013



iDDC: Generate species-specific expectations for patterns of genetic variation



H: species-specific responses to climate change

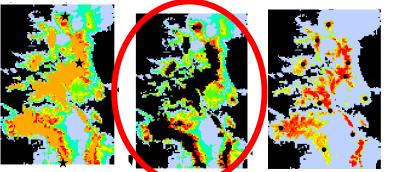
• Glaciated areas act as barriers, but only in wetland specialist



## iDDC modeling:

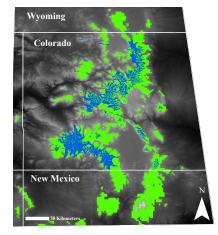
**Coalescent Simulation** 

- Glaciated areas barrier

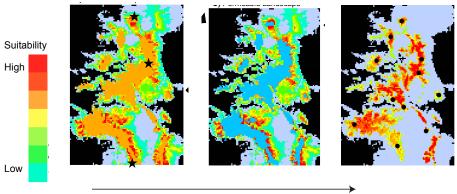


- Glaciated areas permeable

Glaciers shown in blue



Generate lots of simulated data sets under each model



Past

Spatially Explicit Demographic Modeling

Current

high K low K high m low m We identify sets of parameters for the models that produce simulated data that match the empirical data.

> Model Selection using Approximate Bayesian Computation (ABC)

> > Massatti & Knowles (2016) Mol. Ecol.