

Understanding metacommunity dynamics in Mediterranean vernal pools



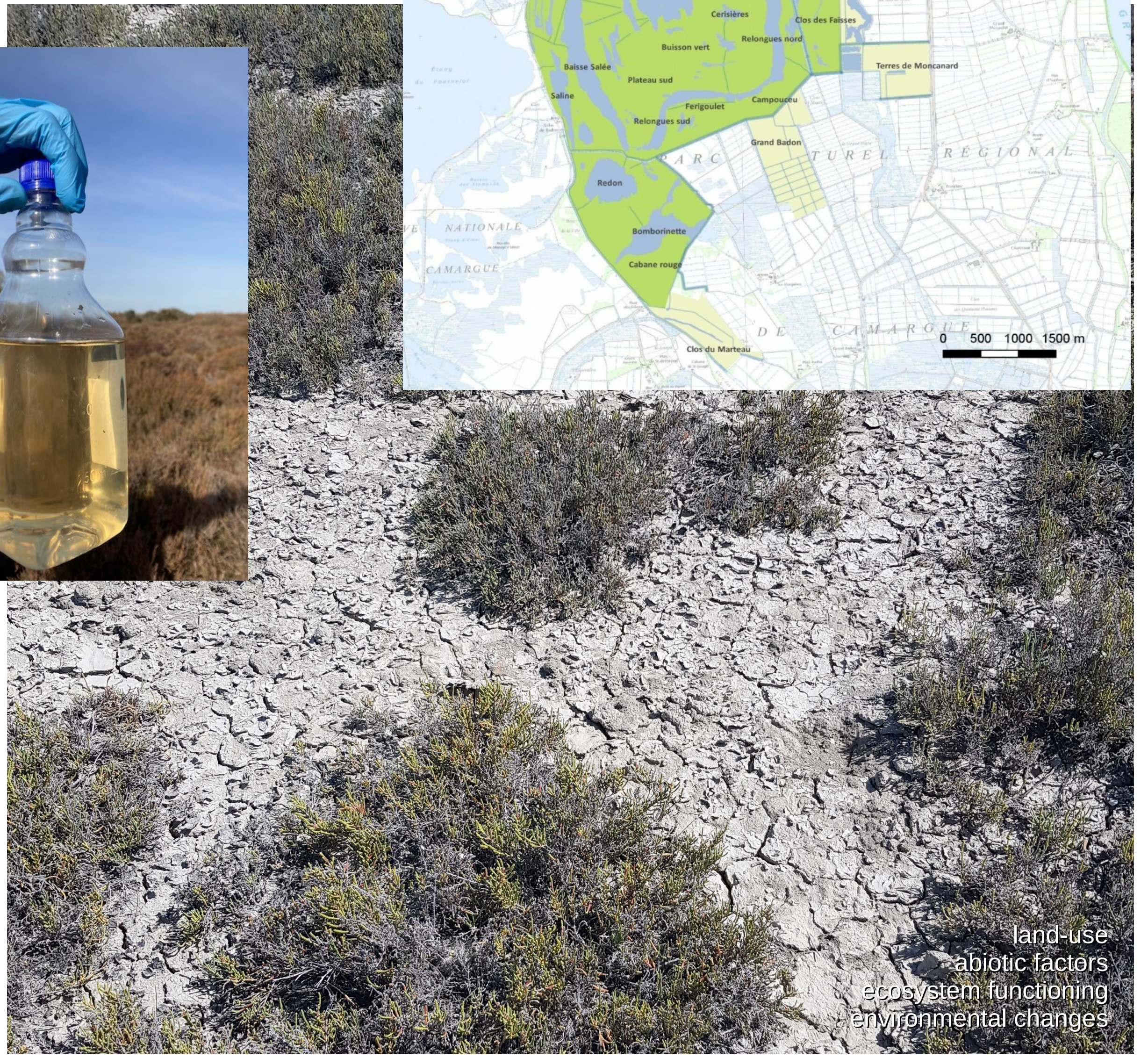
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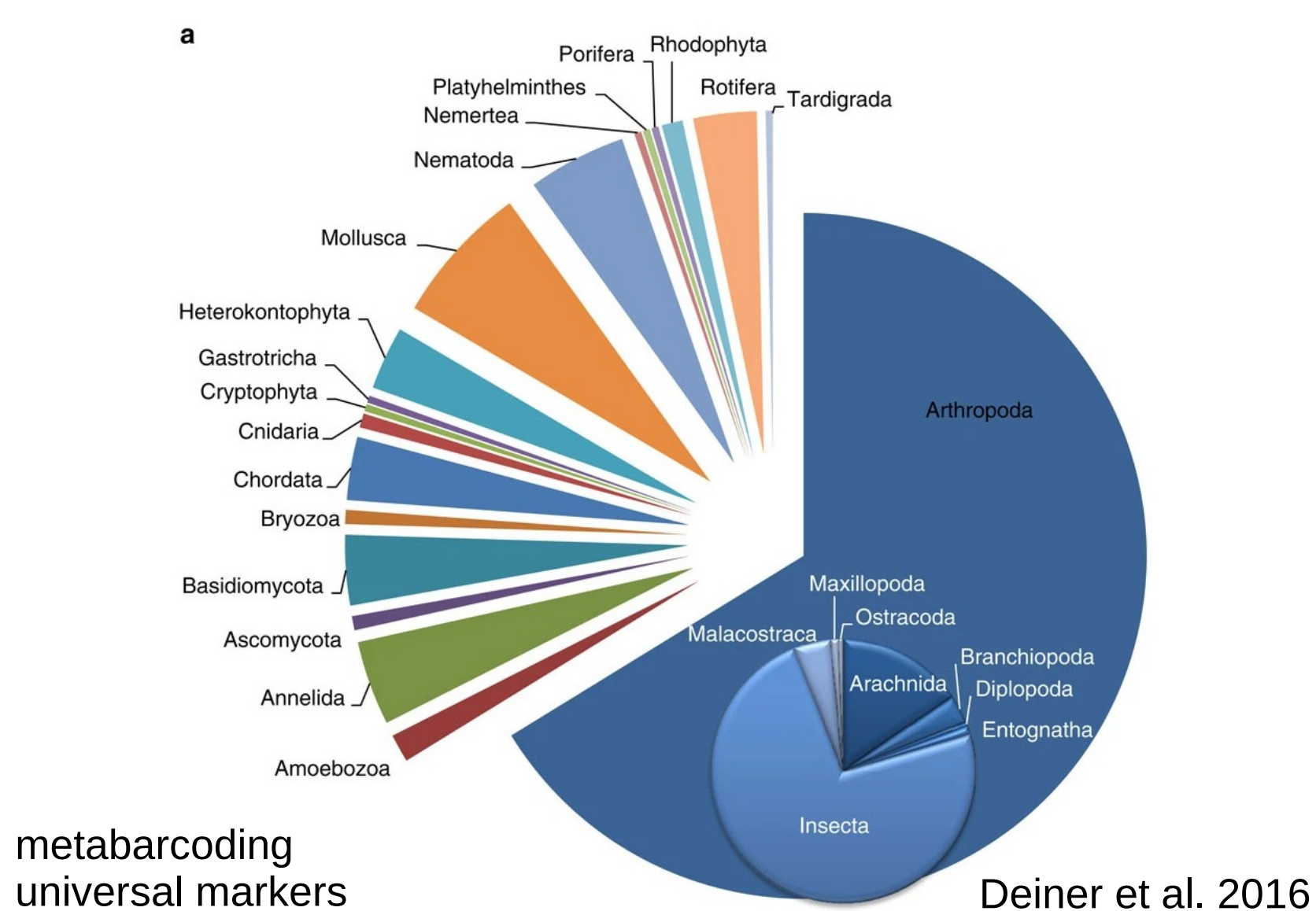
How do communities react to global change? Two central traits, dispersal and local adaptation both allow species to persist in changing environments. Yet, we have limited understanding of how these processes interact to affect species persistence, especially in diverse communities where biotic interactions greatly complicate responses to environmental change.

The aim of this project, is to gain understanding of how these complex eco-evolutionary dynamics play out in nature.

metacommunity dynamics
field work
eDNA & GIS
global change
local adaptation



land-use
abiotic factors
ecosystem functioning
environmental changes



We will use Mediterranean vernal pools in the Camargue as test beds for our predictions. Data will be collected using classical limnological field work combined with environmental DNA (eDNA). Metacommunity dynamics will be analysed in explicit space (GIS mapping) and explained using biotic, but also abiotic variables, such as land use and ecosystem functioning.