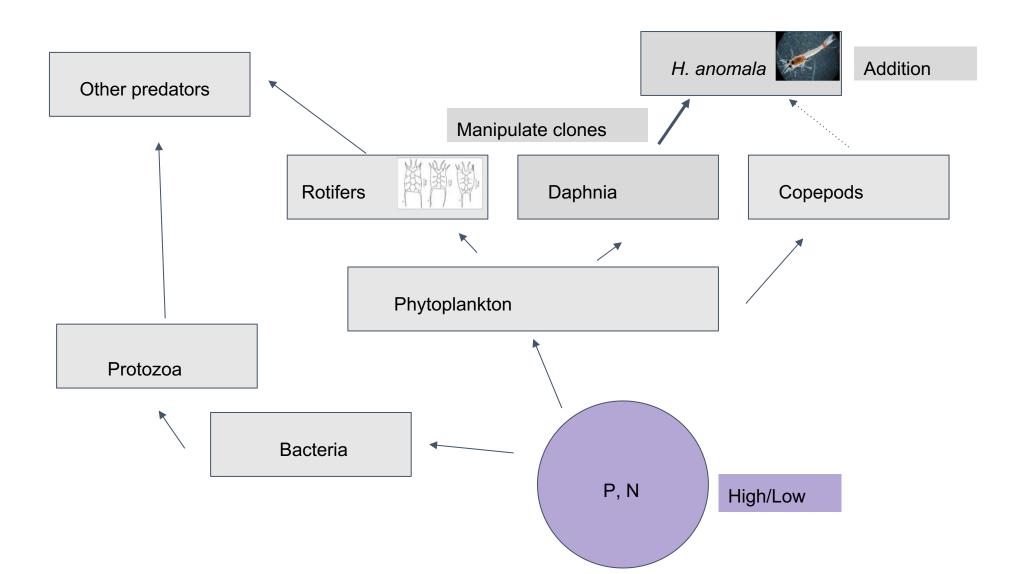
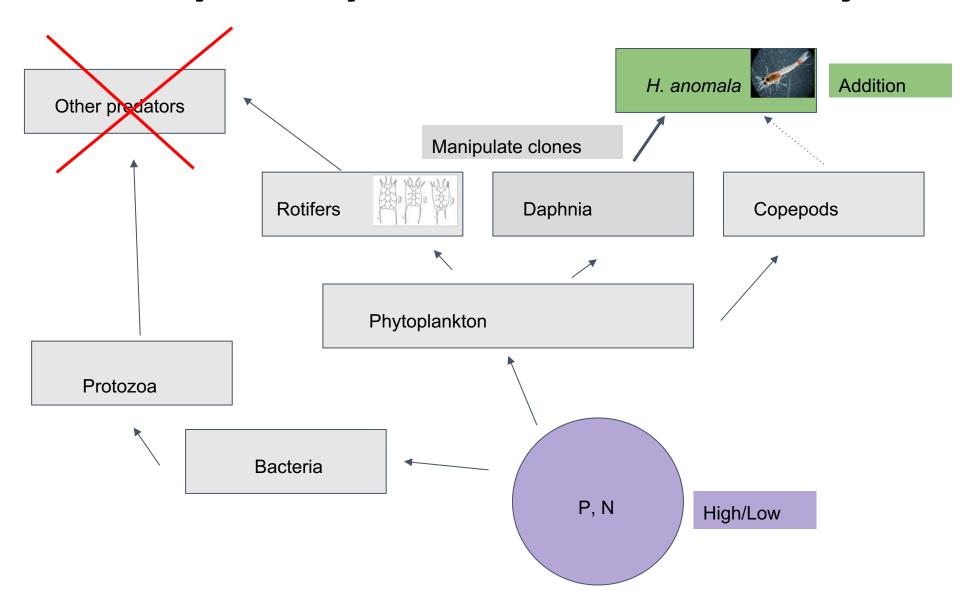


Does the likelihood of community evolutionary rescue depend upon food web structure and the interaction with stressors?

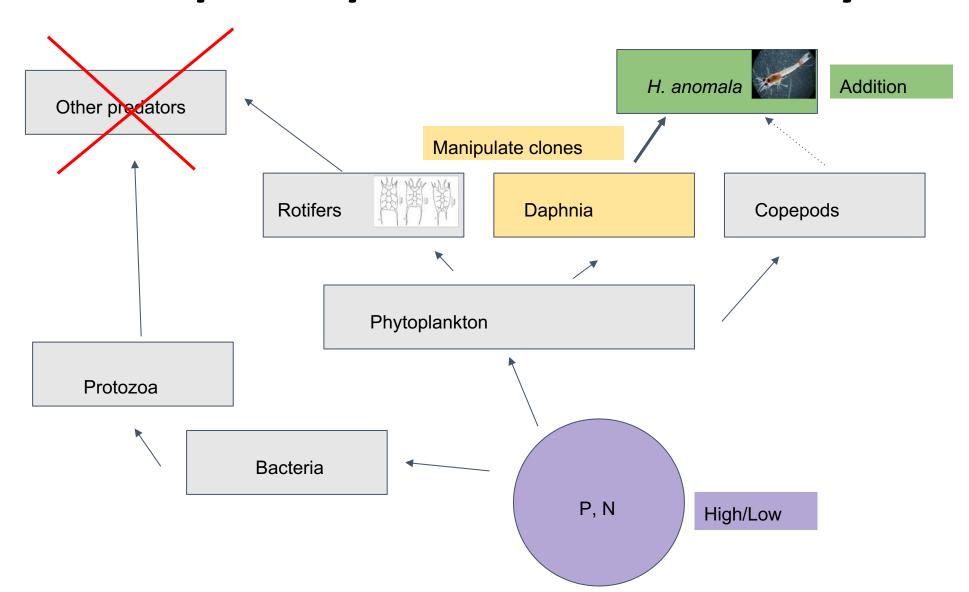
# Food web manipulation of top predators and *Daphnia pulex* clonal diversity



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# Food web manipulation of top predators and *Daphnia pulex* clonal diversity



### **Old: Timeline LEAP 2018**

Start

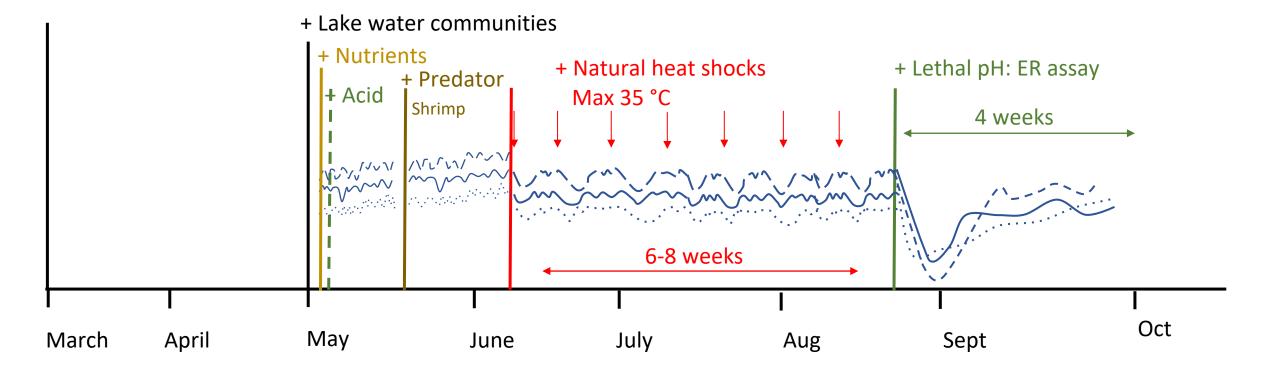
pH same as in 2017!!



Preparation

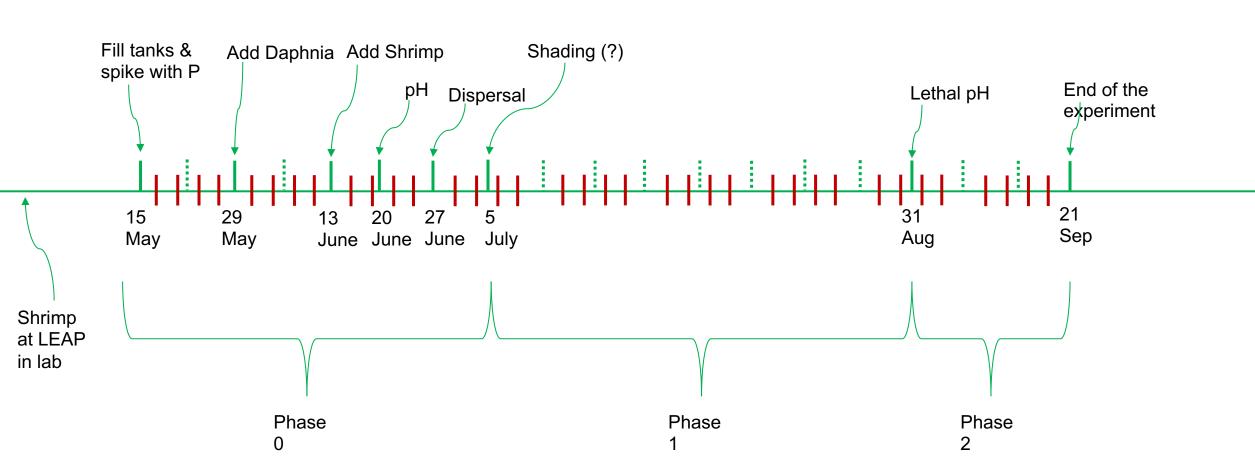
- Daphnia cultures
- Predator cultures
- Aquarium heaters
- Netting

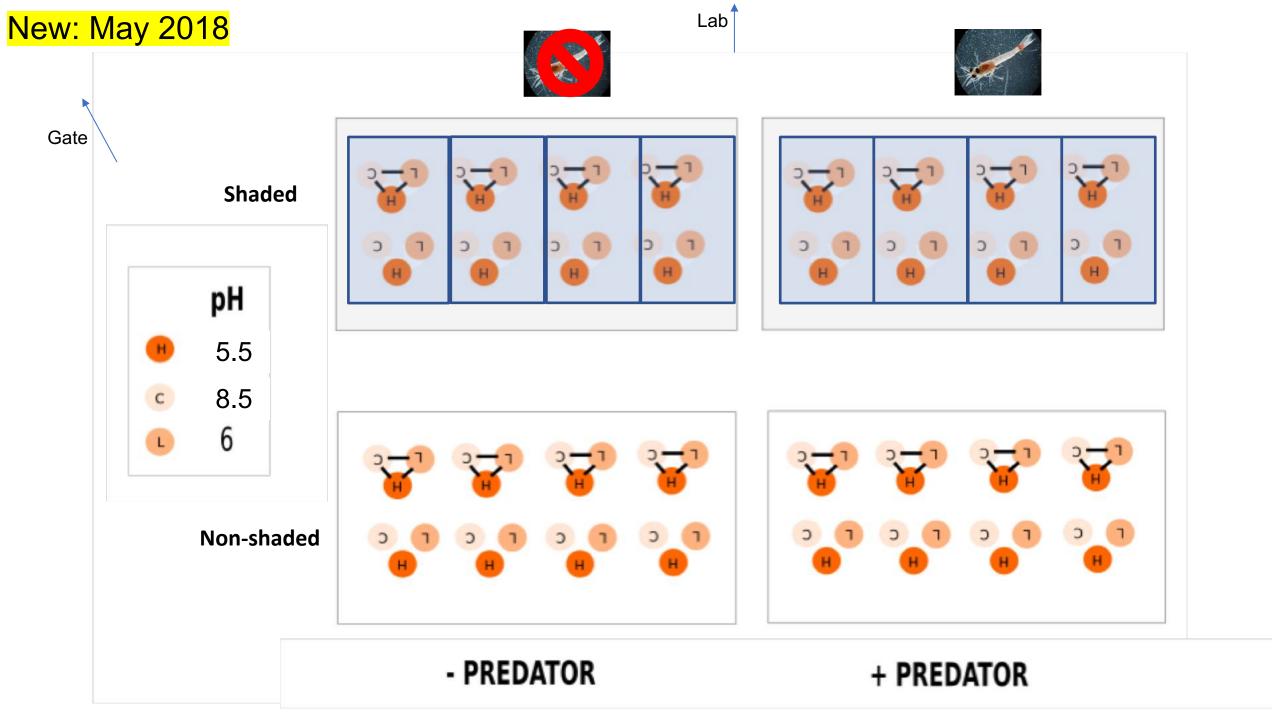
- Add physical stress: let the communities settle
- Add Predator: let settle



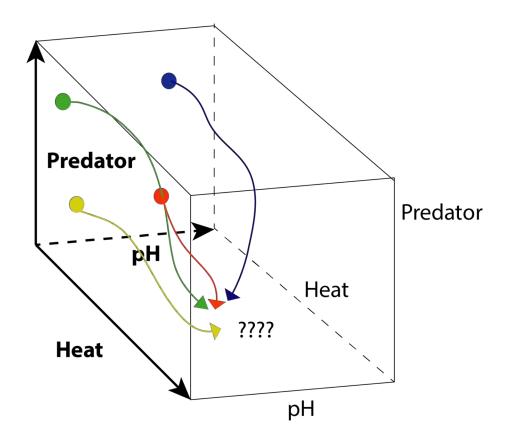
## Timeline updated

Bi-weekly sampling





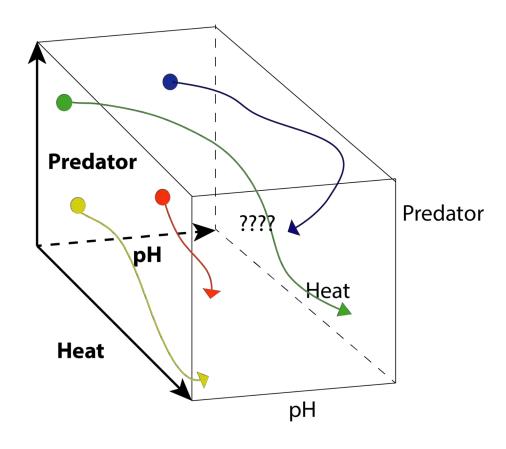
#### + Dispersal



Measure of community composition

- Phytoplankton composition
- Daphnia clonal composition

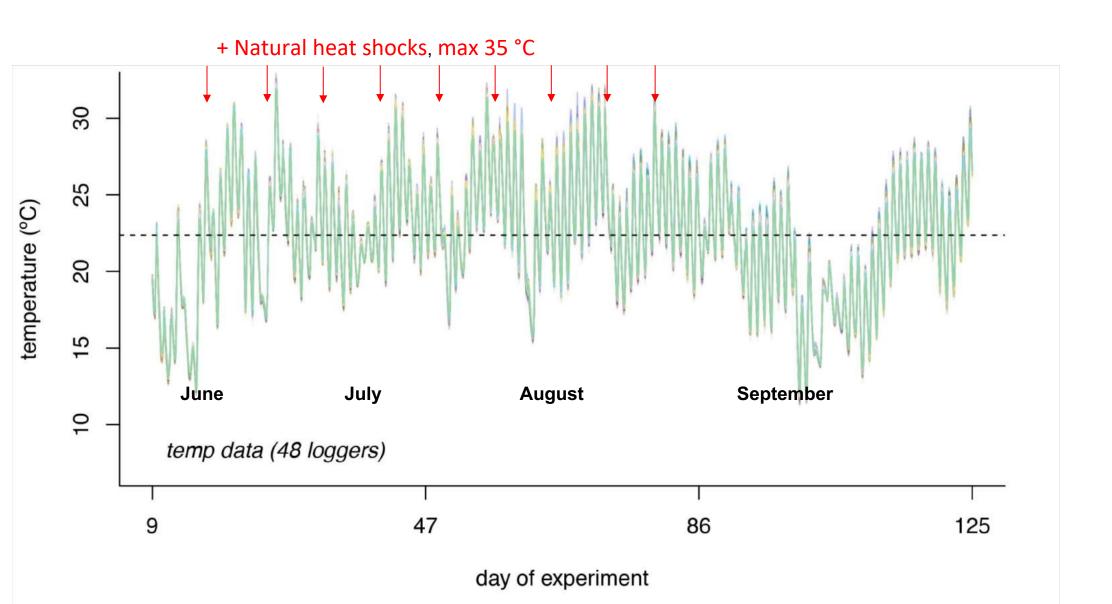
#### - Dispersal



Measure of community composition

- Phytoplankton composition
- Daphnia clonal composition

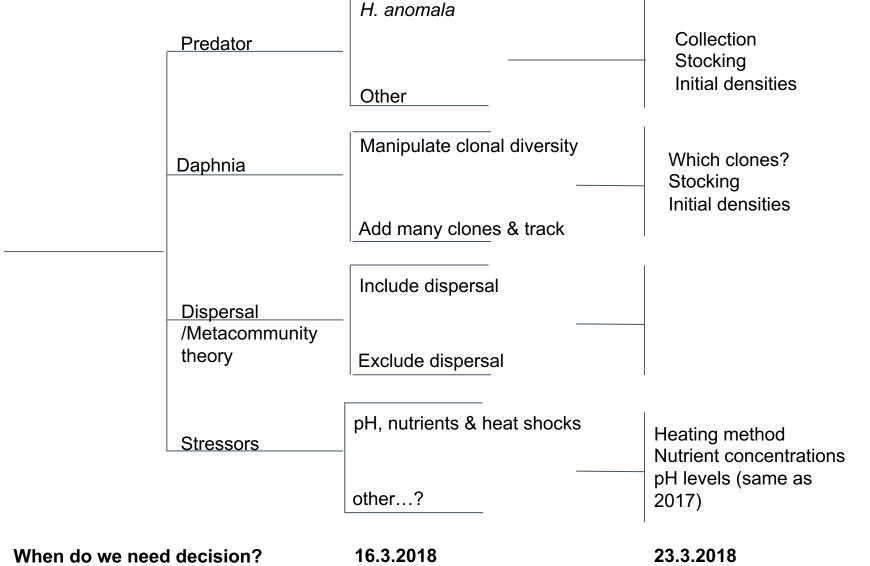
### 2017 temperature hourly readings of 4 LEAP ponds



### Decision tree

All decisions made and logistics clear by May 1st 2018

#### **Research topics**



Biotic stress /

Cascading top-down effects
Synchrony and stability of food webs
Consumer vs. predator abundance
Invasion (non-native predator)

Genetics /

Gene flow
Selection
Founder effects

**Metacommunities** /

Local versus regional processes Compensatory dynamics Overall species abundance

Abiotic stress /

Bottom-up effects
Stress synergies and trade-offs