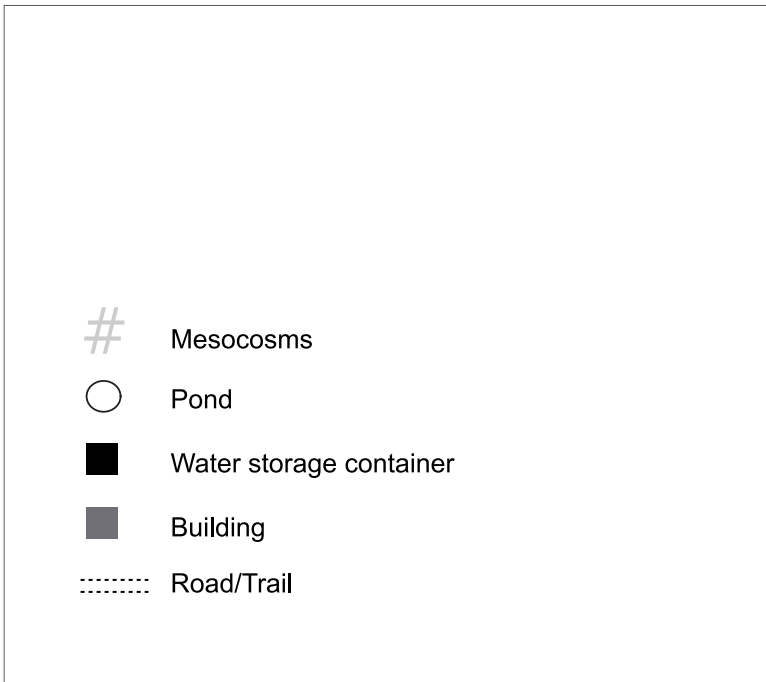
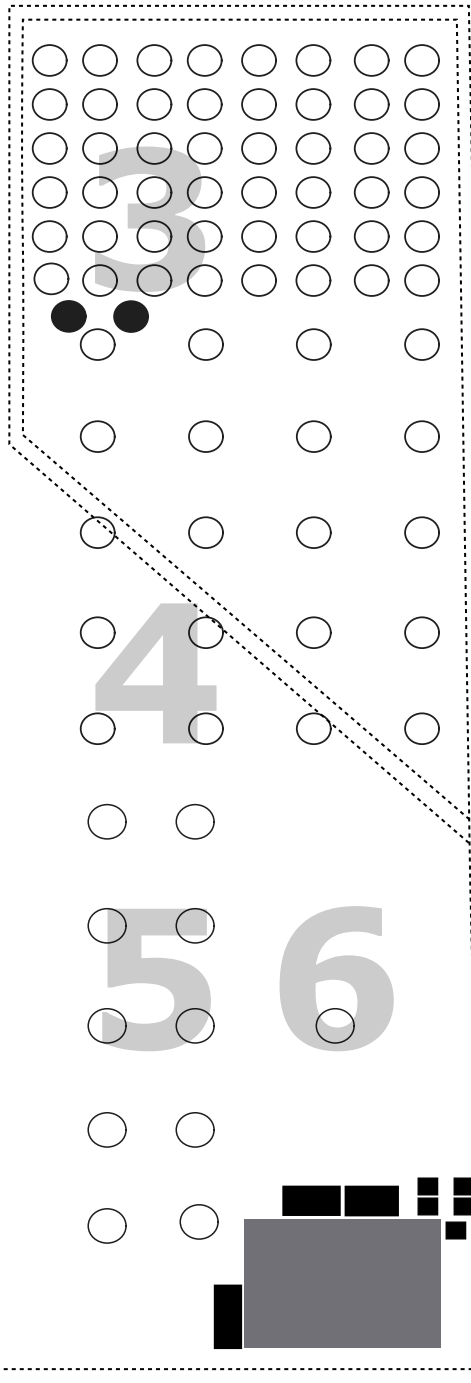
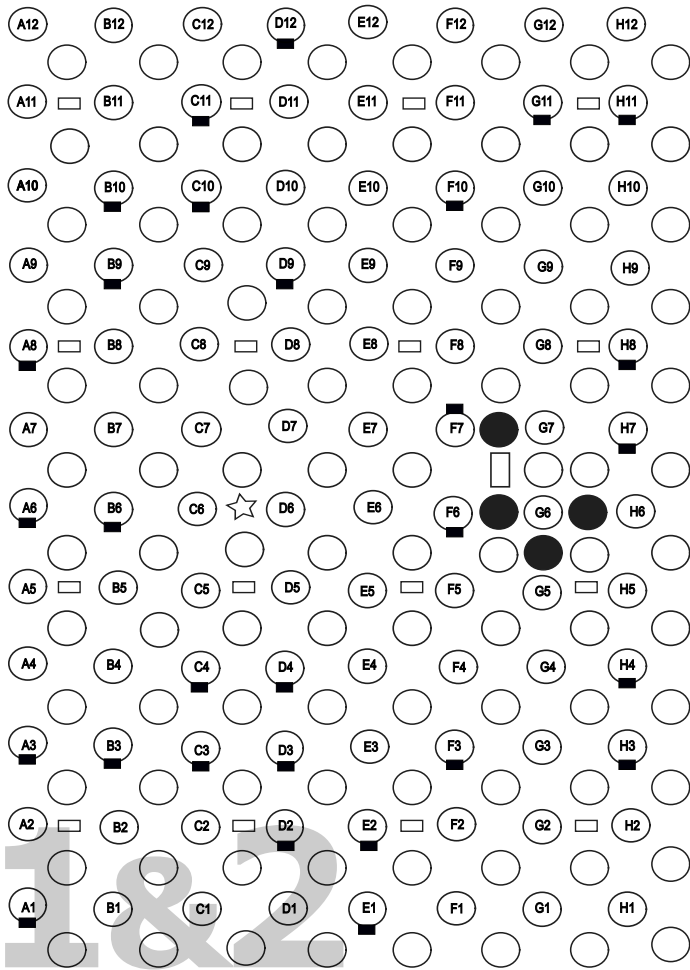


# Silwood Mesocosms Facility



← to Cheapside road gate

to campus buildings →

# Key to mesocosm maps



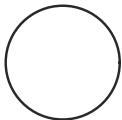
Pond. Some are named, e.g. column H, row 12



Electrical cabinet



Water tap



Large water tank



Pond with 400L heather tank



Dotted line: Element no part of mesocosm

## Warming experiment: Temperature mesocosm 1 ponds



ambient (36 ponds)



+3 °C (4 ponds)



+6 °C (4 ponds)



+1 °C (4 ponds)



+4 °C (22 ponds)



+7 °C (4 ponds)



+2 °C (14 ponds)



+5 °C (4 ponds)



+8 °C (4 ponds)

## Chemical stressors: Added to ponds mesocosms 1, 3 & 4



Stressor group A

Ponds with added mixture of herbicide, insecticide, fungicide and antibiotic typically used in urban settings. **RED** dot painted on ponds for mesocosms 1



Stressor group B

Ponds with added mixture of herbicide, insecticide, fungicide and antibiotic typically used in **rural** settings. **ORANGE** dot painted on ponds for mesocosms 1



Stressor groups A & B added (16 ponds) . **RED** and **ORANGE** dots painted on ponds for mesocosms 1



Stressor group P

Ponds with added mixture of pharmaceuticals and care products



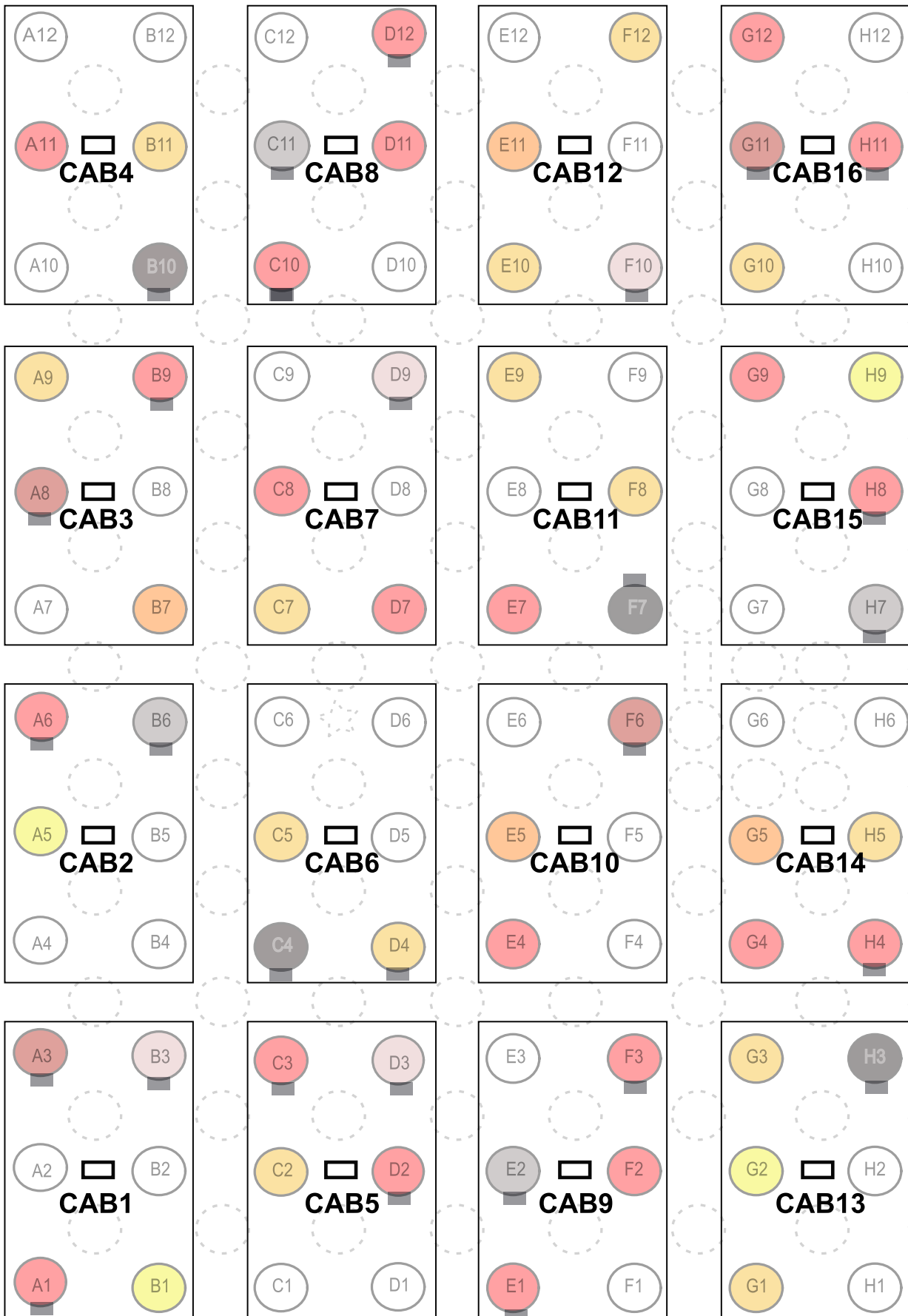
Ammonia added to pond

N



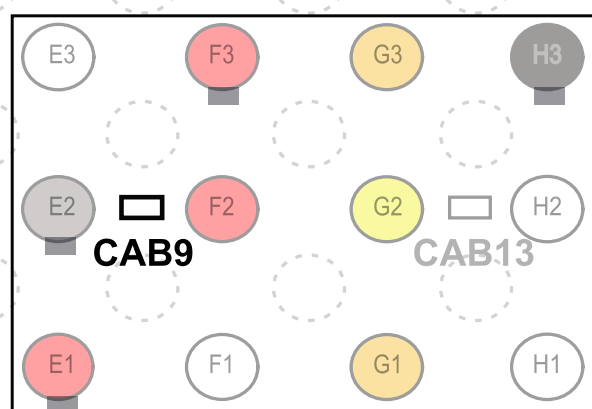
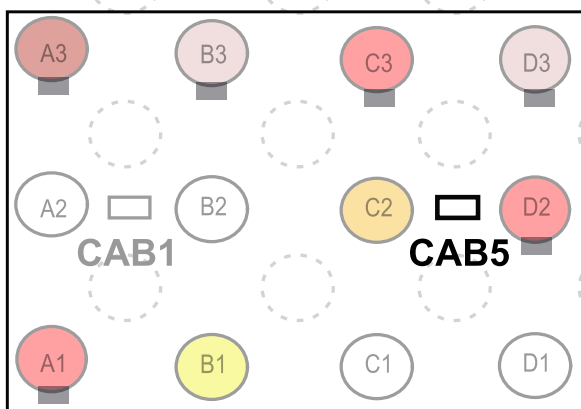
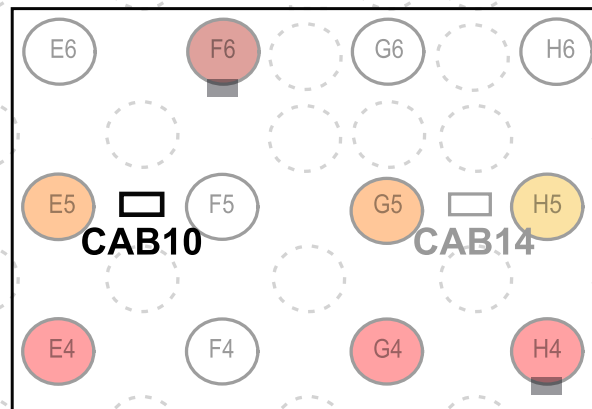
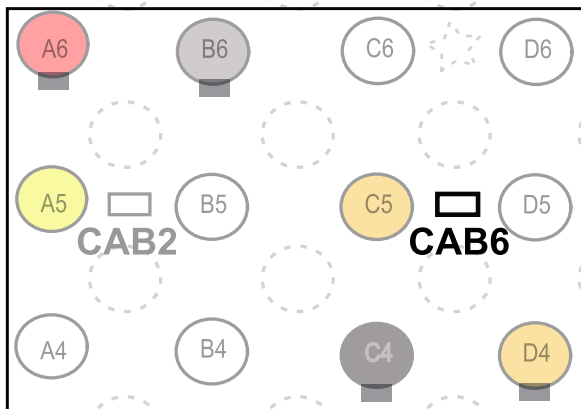
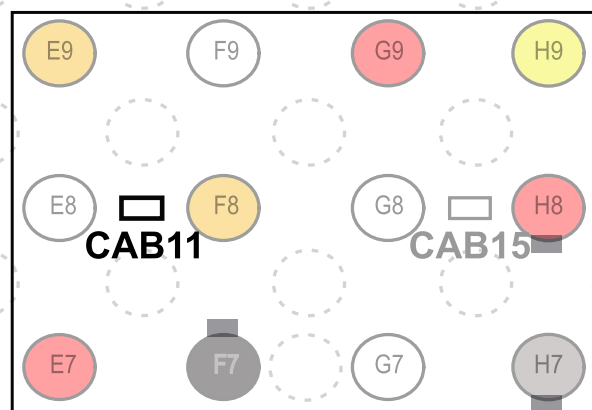
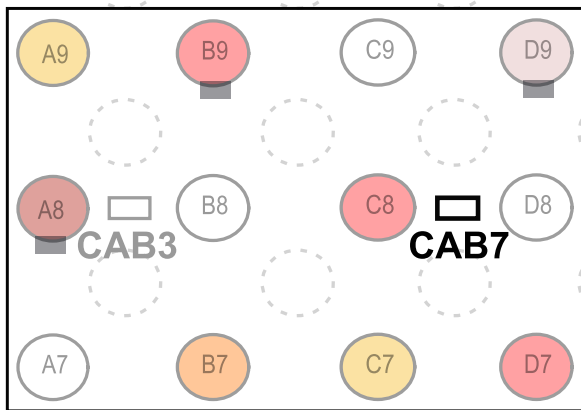
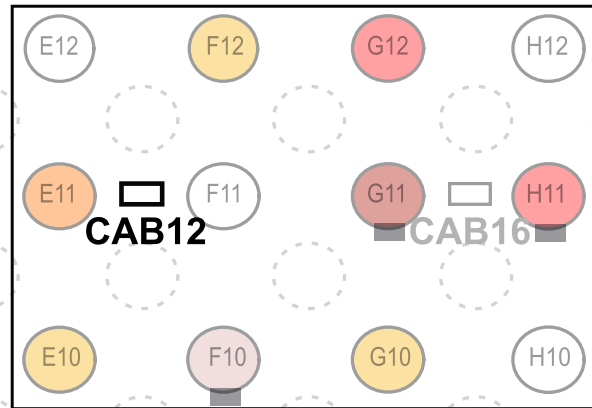
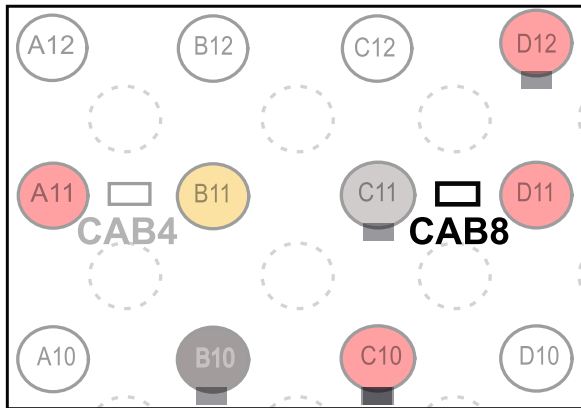
# Mesocosm 1

## Electrical cabinets: Power distribution



# Mesocosm 1

## Electrical Cabinets: Data Loggers

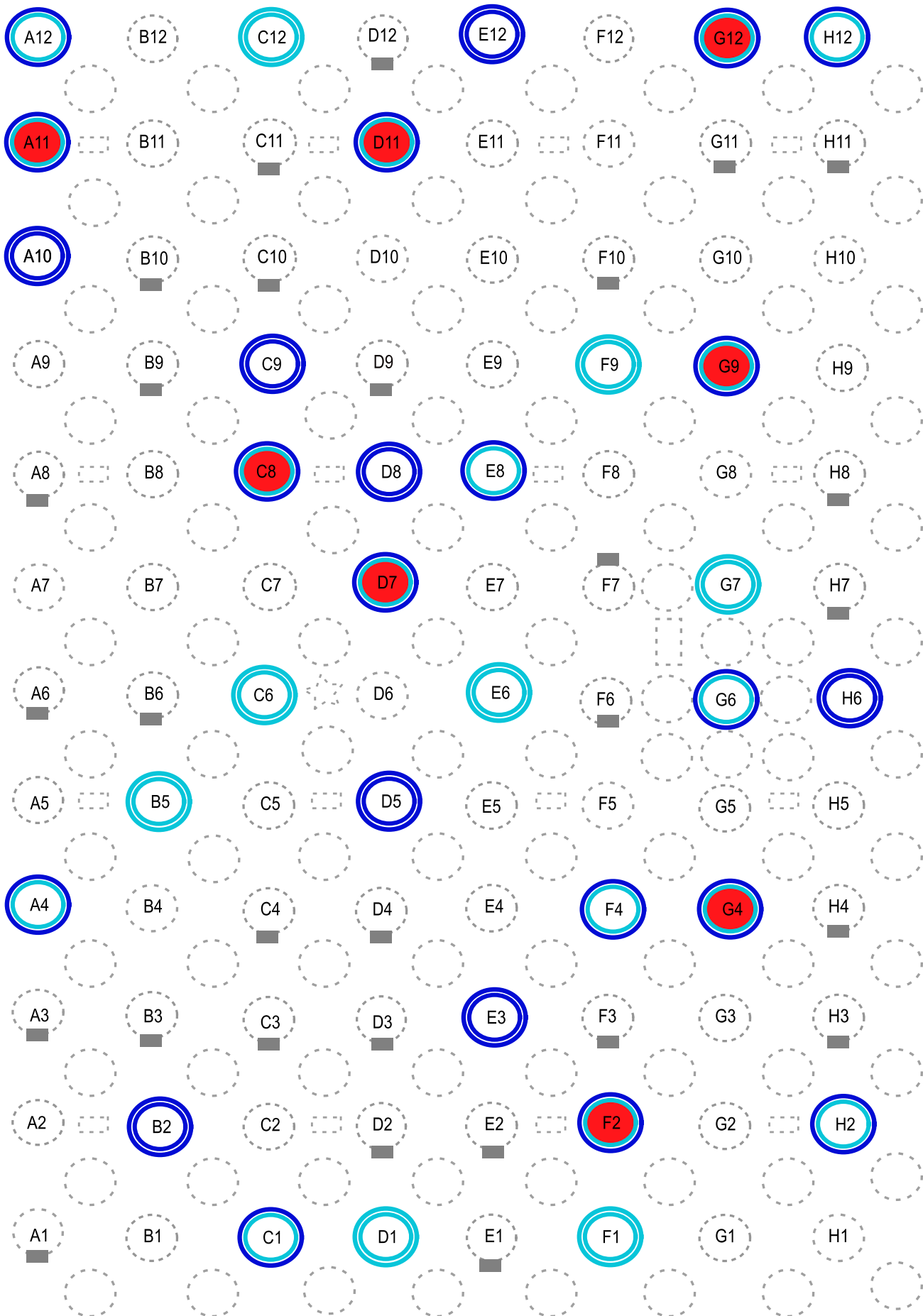


N



# Mesocosm 1

## Chemical stressors experiment

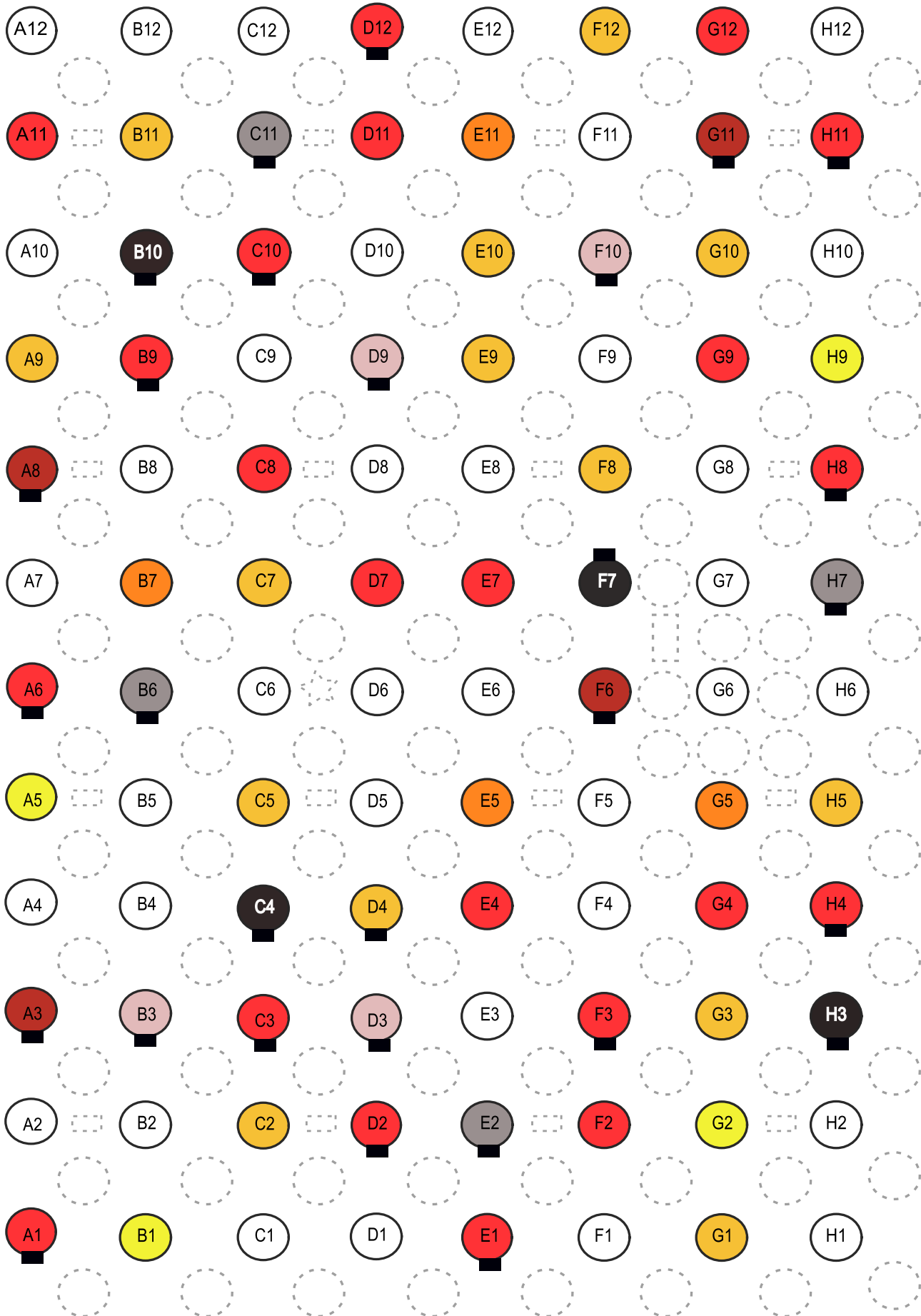


N



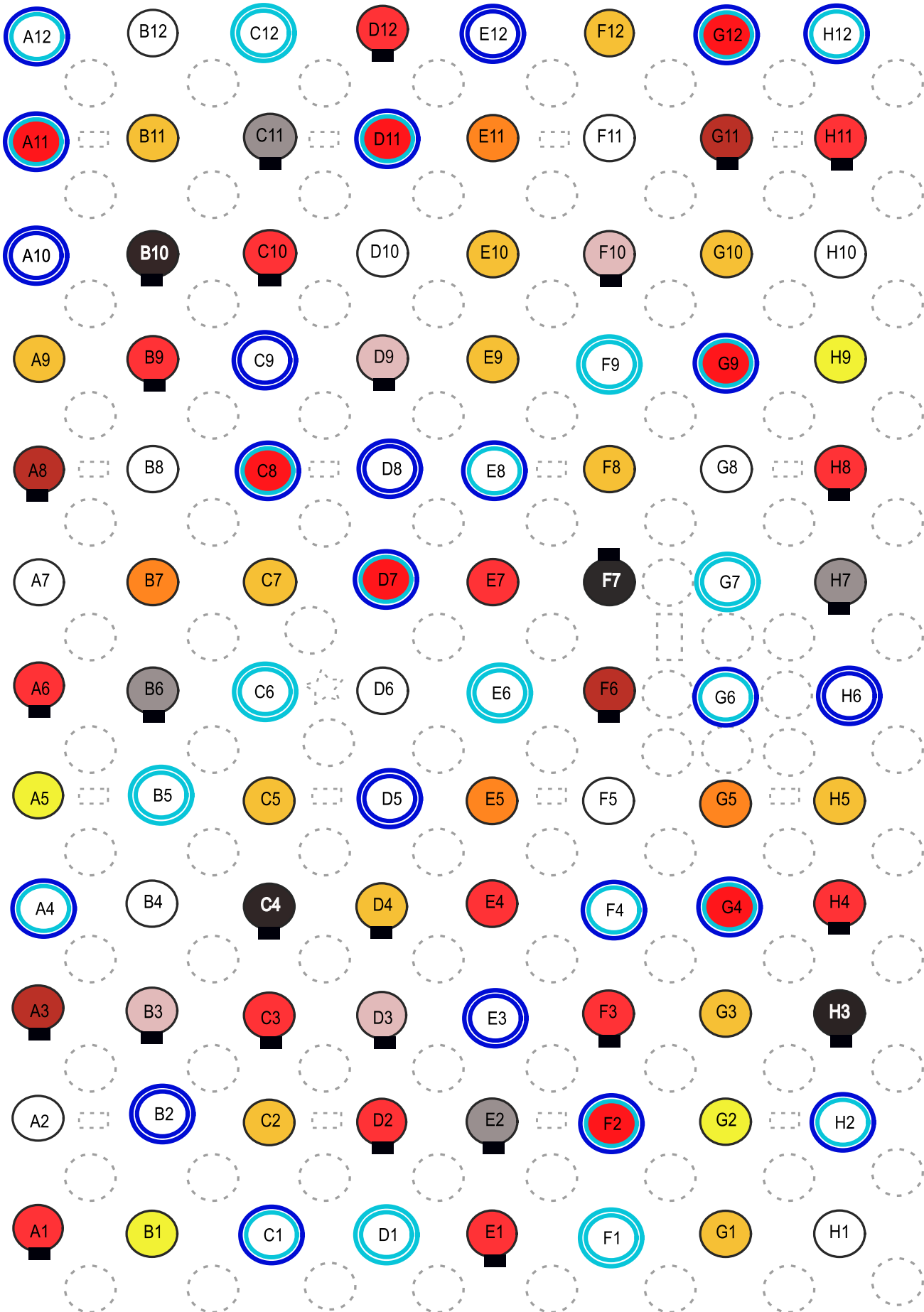
# Mesocosm 1

## Warming experiment

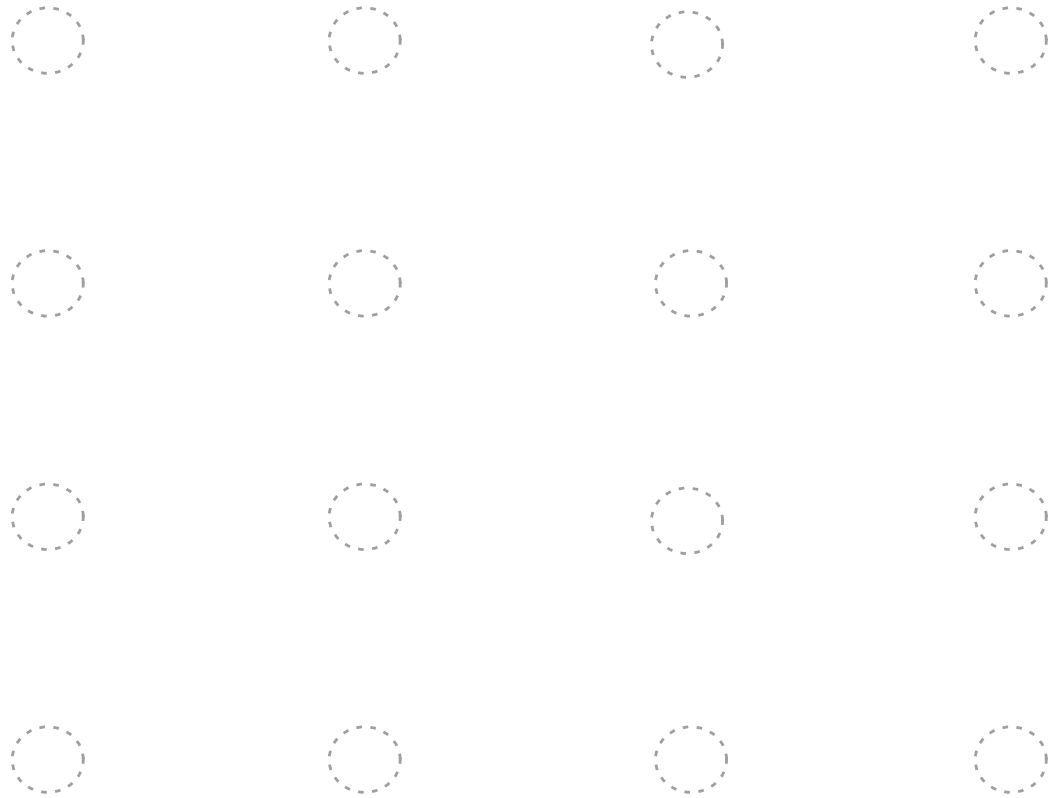
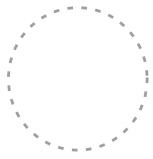


warming experiment from 5-Sept-2018

# Mesocosm 1: warming and chemical stressors



# Mesocosm 3: eDNA for bioassessment of water quality





N



# Mesocosm 4: Global experiment

