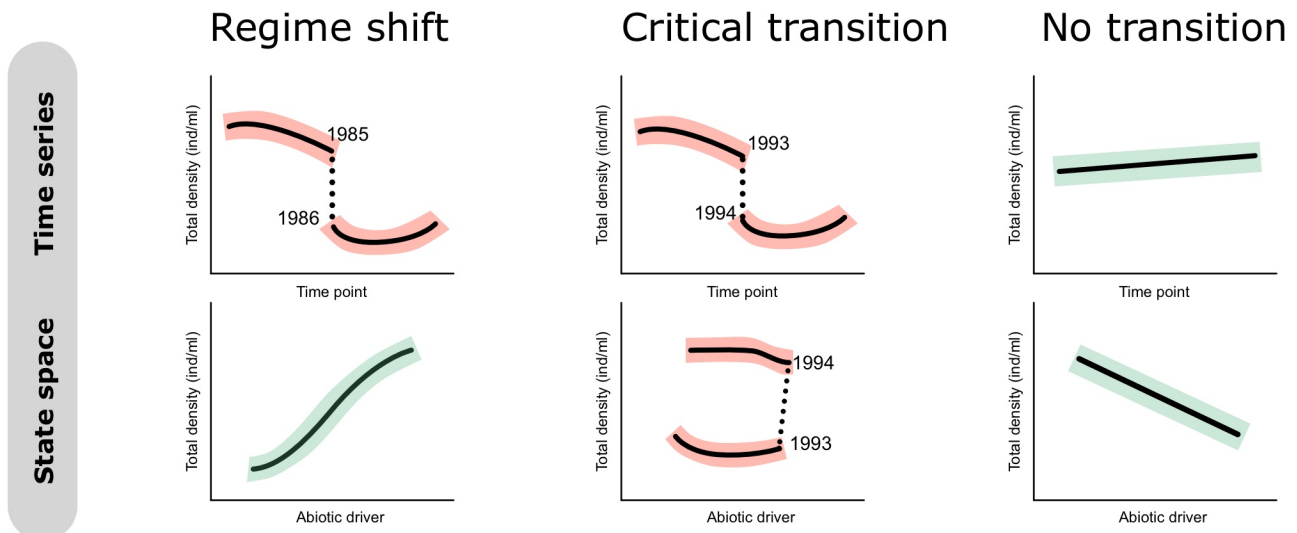
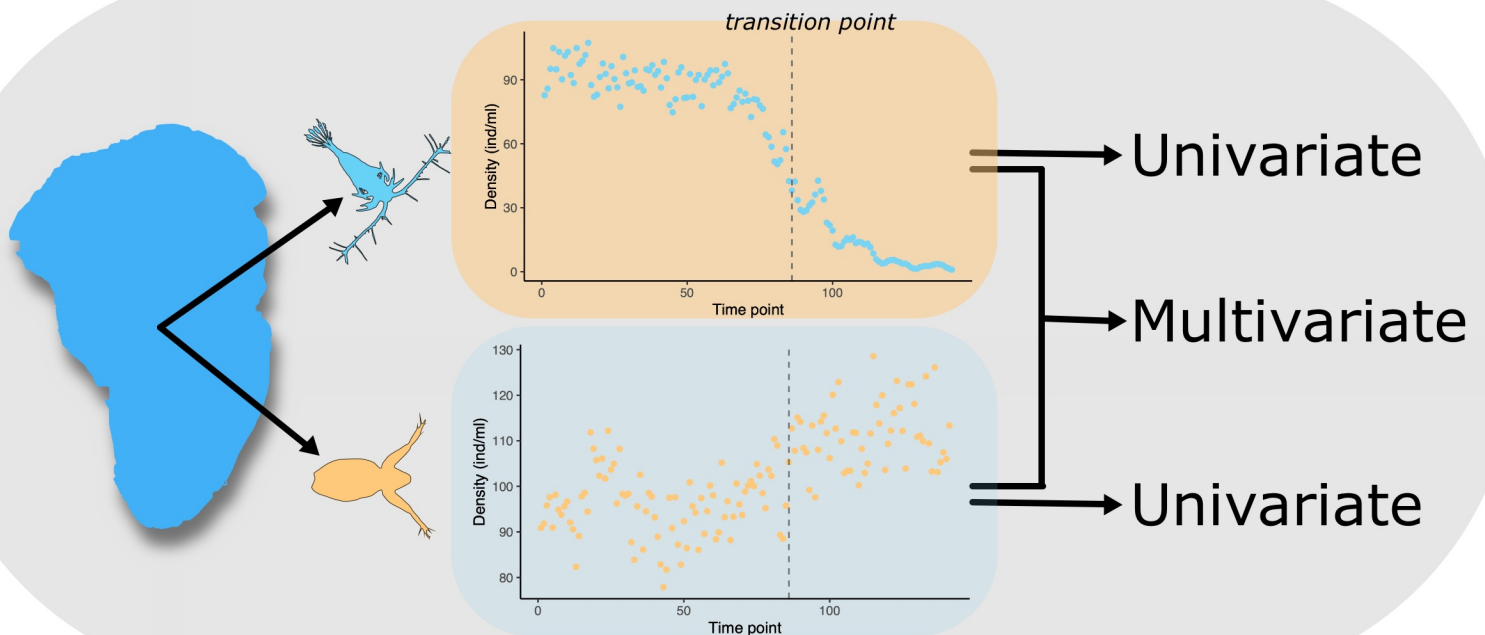


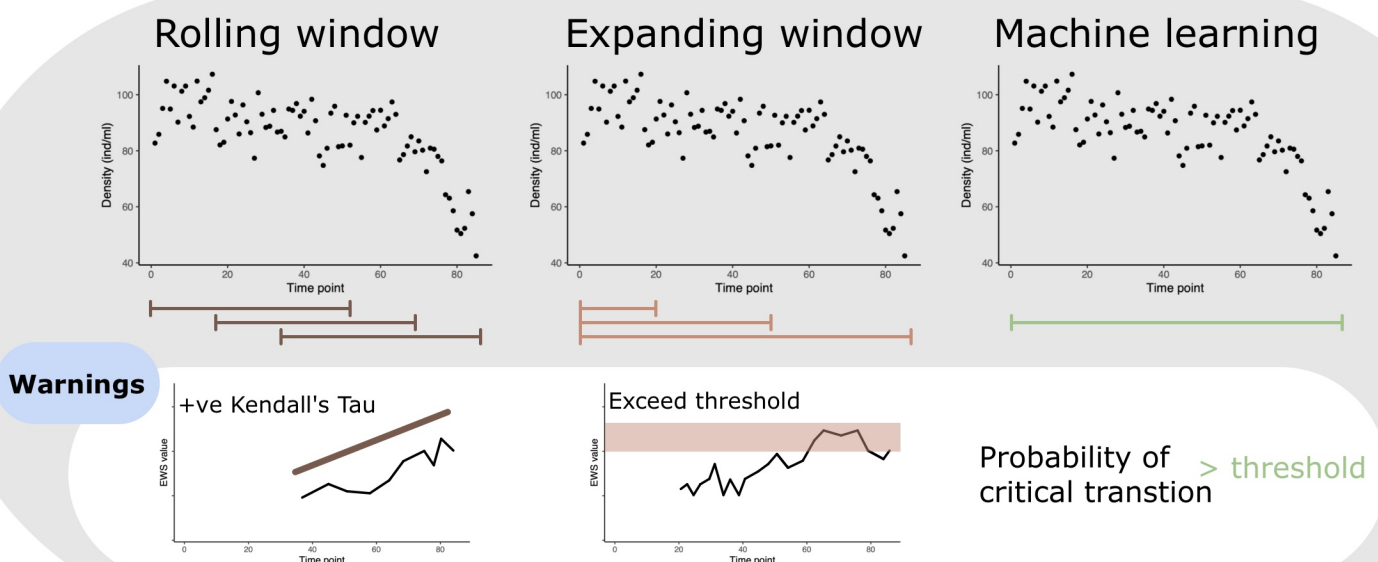
## A Identify critical transitions via threshold GAMs



## B Levels of early warning signal assessment

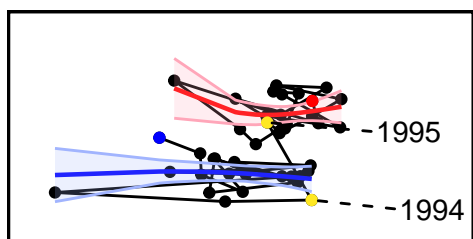
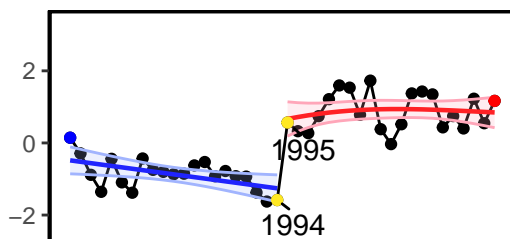


## C Computation of early warning signal



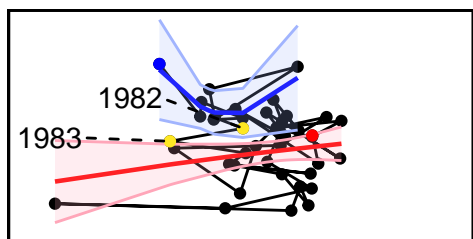
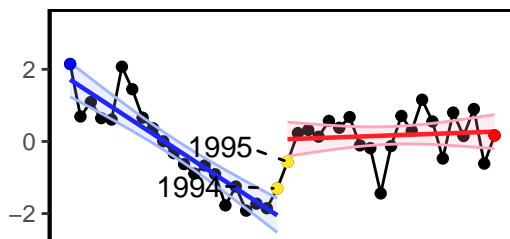
● Start date ● End date ● Transition dates

Scaled metric score

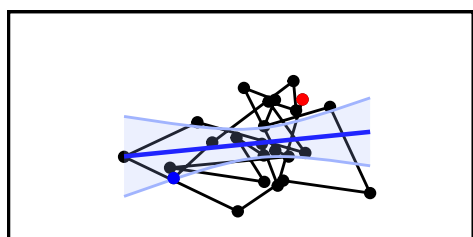
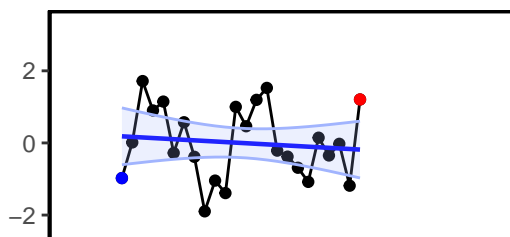


Phytoplankton

Kinneret

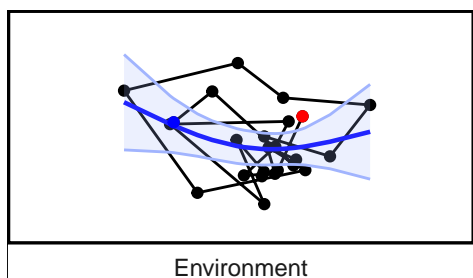
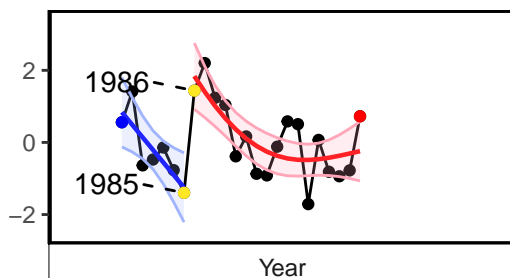


Zooplankton



Phytoplankton

Windermere



Zooplankton

1980

1990

2000

Explanatory variable

-2

-1

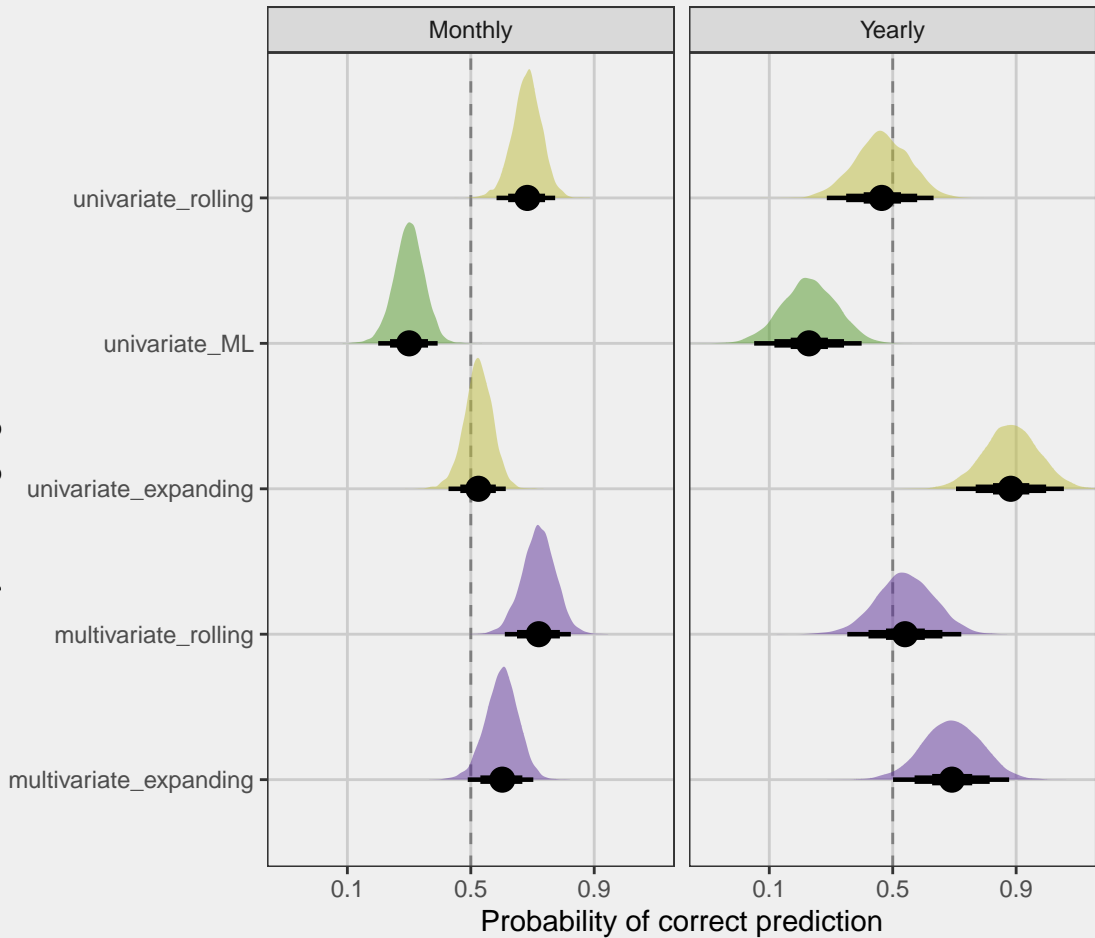
0

1

2

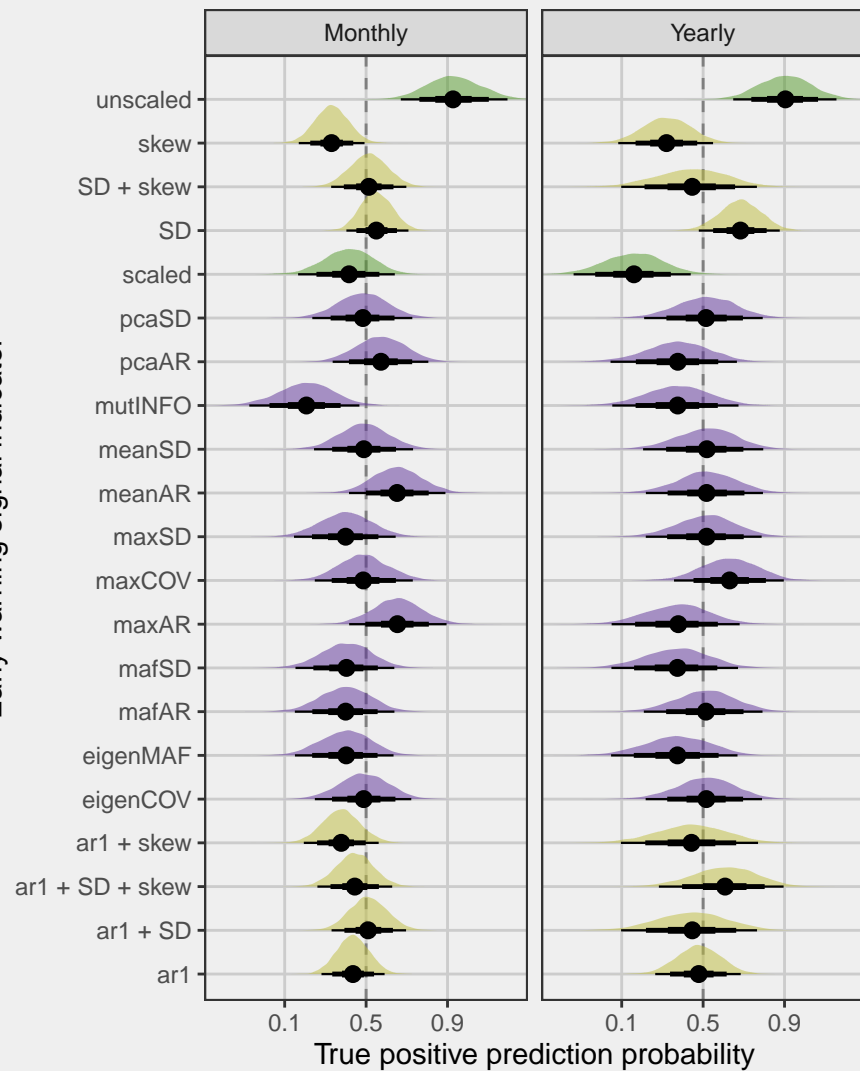
Environment

Early warning signal method



**a**

Early warning signal indicator

**b**