

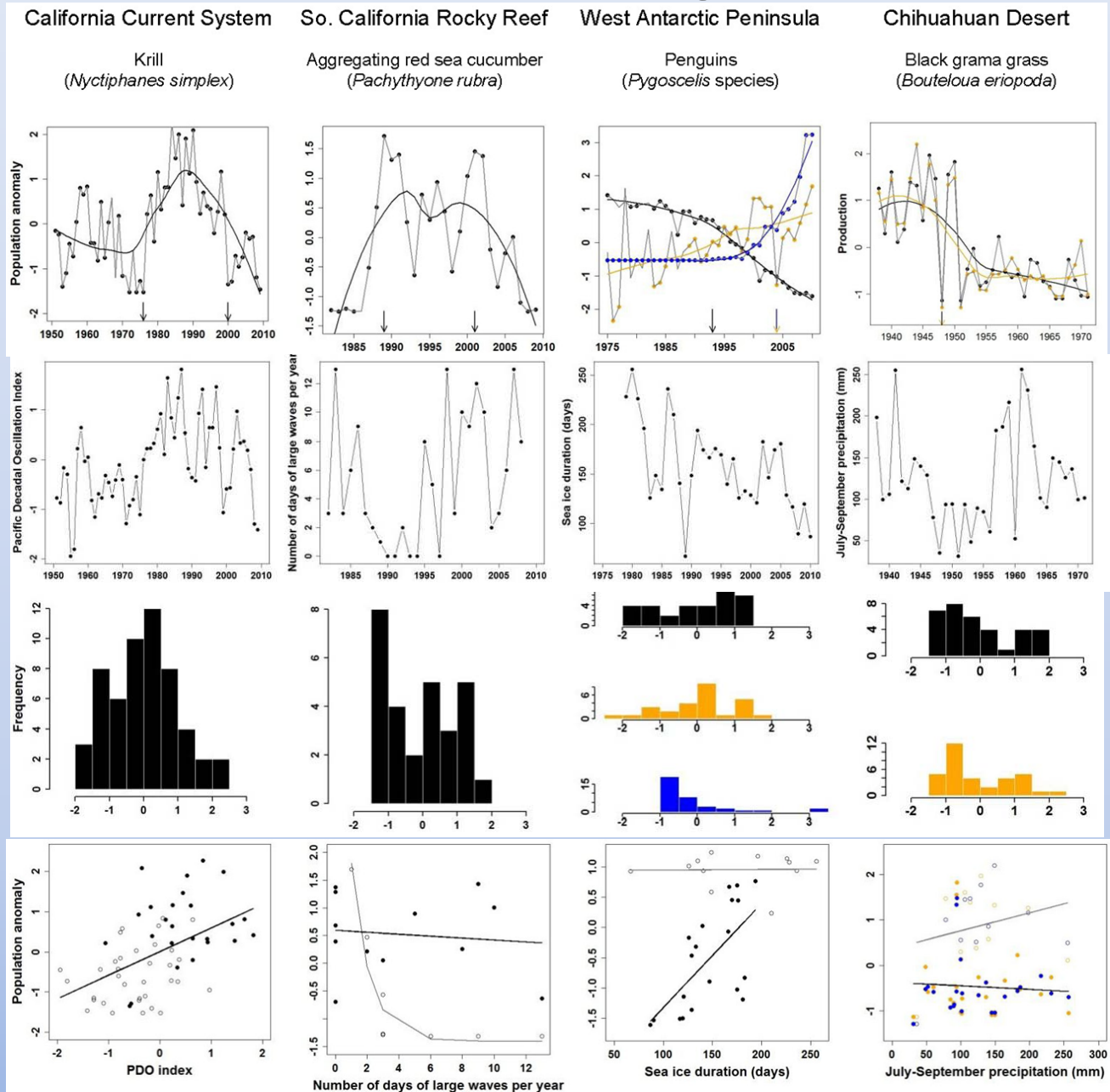
Abrupt transitions in ecological systems

Response variable

Driver

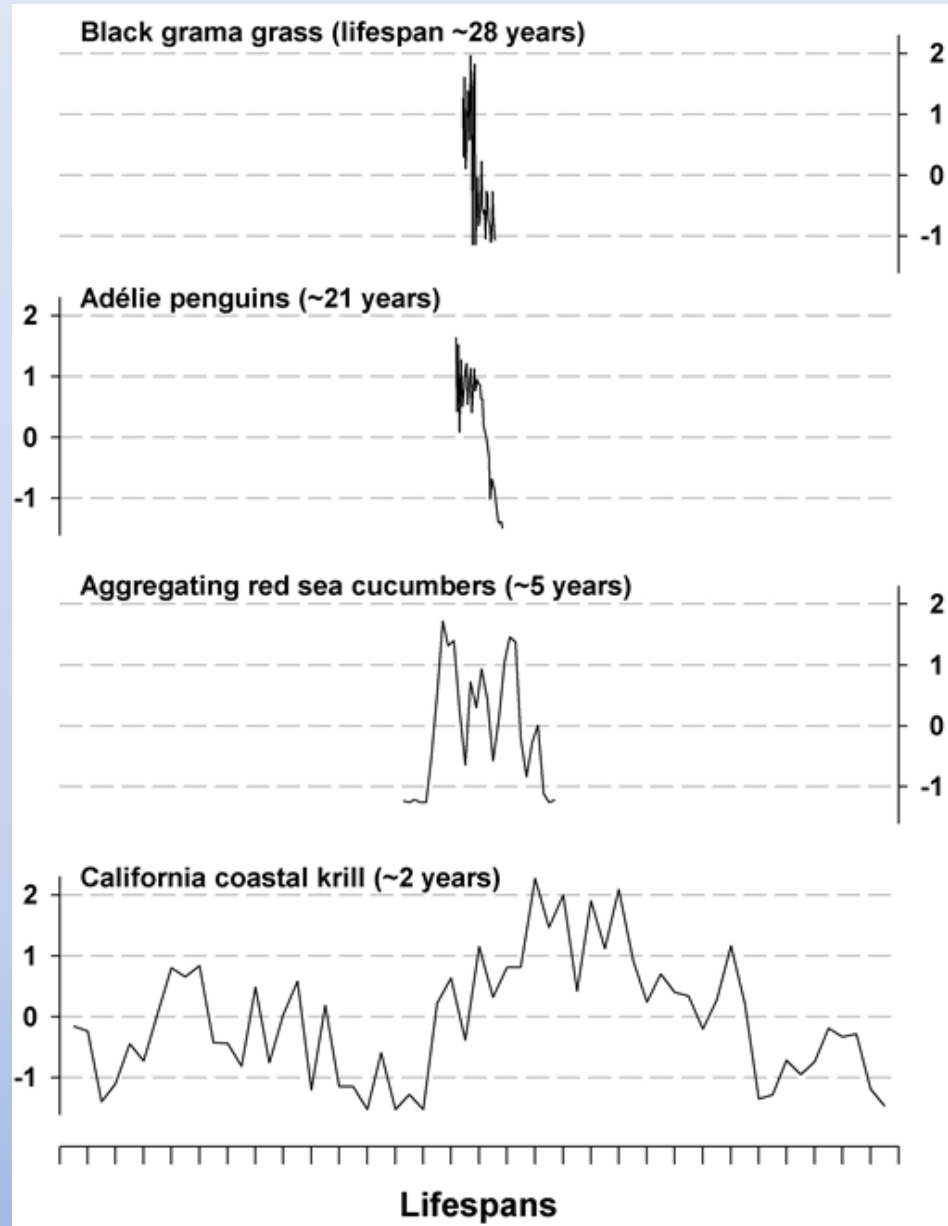
Bimodality test

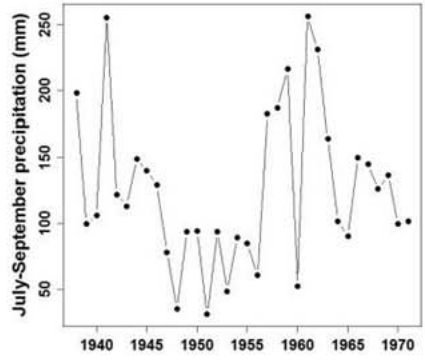
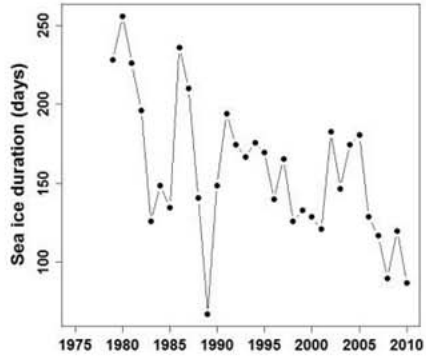
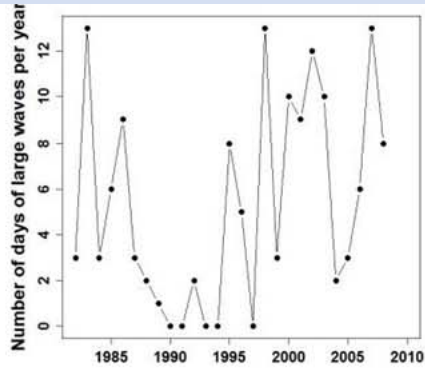
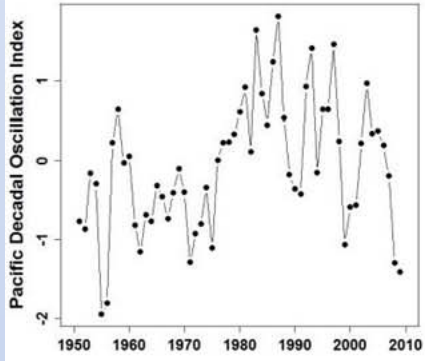
Time-dependence of driver-response Relationship?



Ecological Transitions scaled to lifespan units

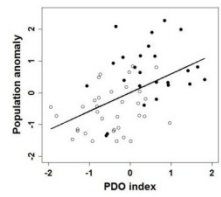
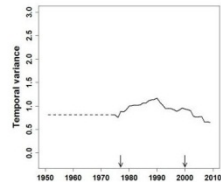
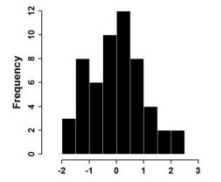
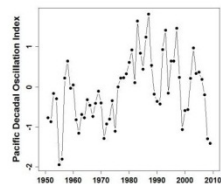
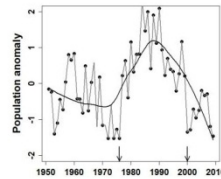
Abundance, or Productivity





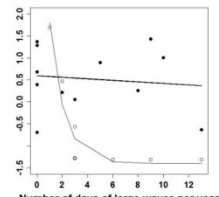
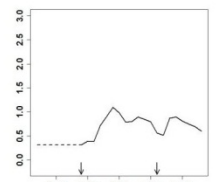
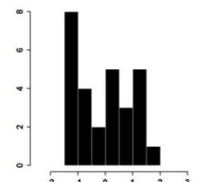
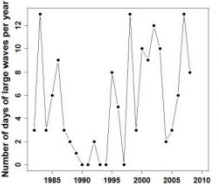
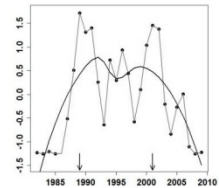
California Current System

Krill
(*Nyctiphanes simplex*)



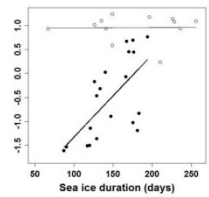
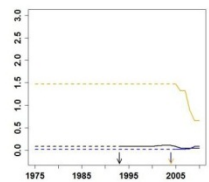
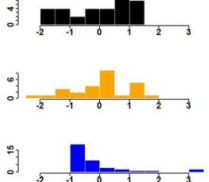
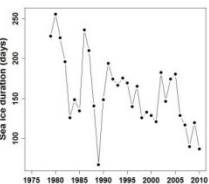
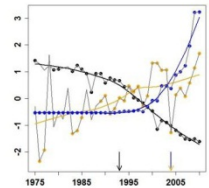
So. California Rocky Reef

Aggregating red sea cucumber
(*Pachythyone rubra*)



West Antarctic Peninsula

Penguins
(*Pygoscelis* species)



Chihuahuan Desert

Black grama grass
(*Bouteloua eriopoda*)

