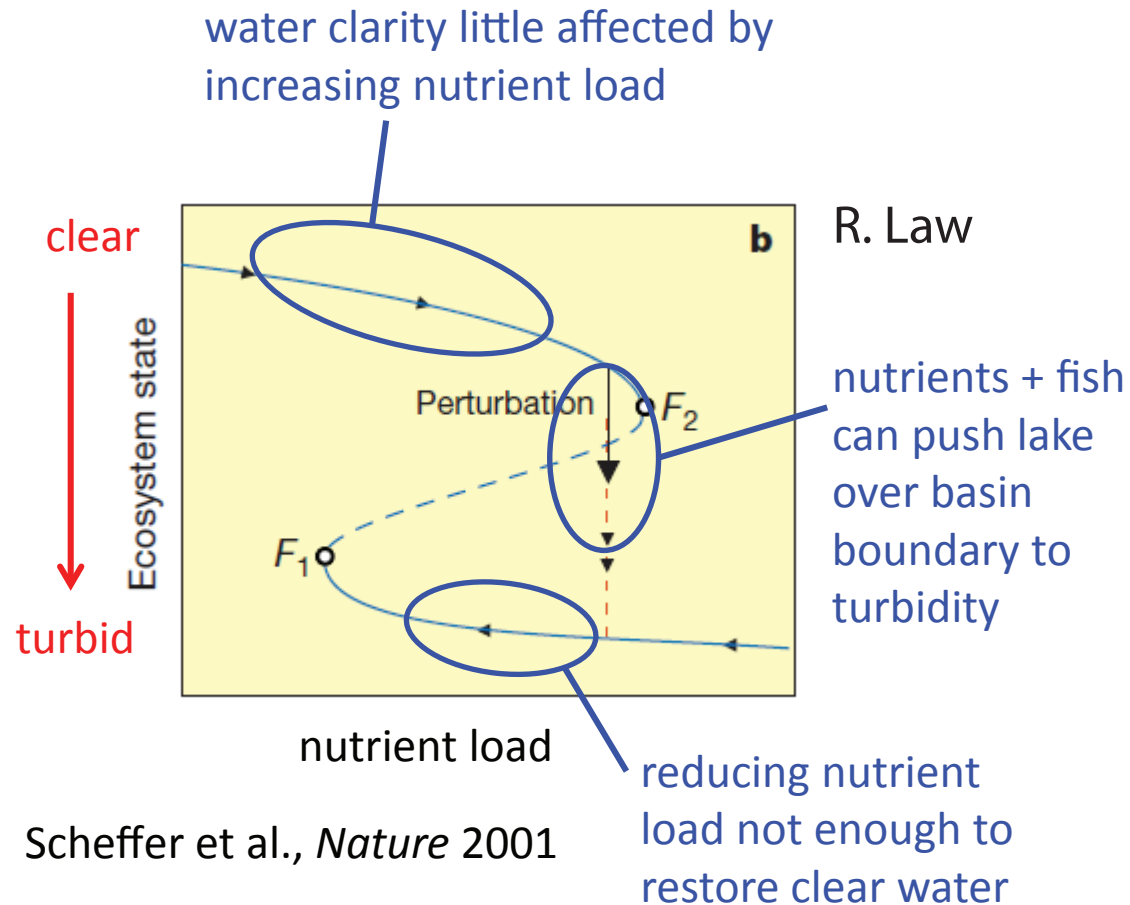


tipping points in ecological dynamics

lake eutrophication



Scheffer et al., *Nature* 2001



Lake Paul and Pete
Carpenter et al., *Science* 2011

desertification from grazing

(box models in physical oceanography)

**under ice
algal blooms
??**