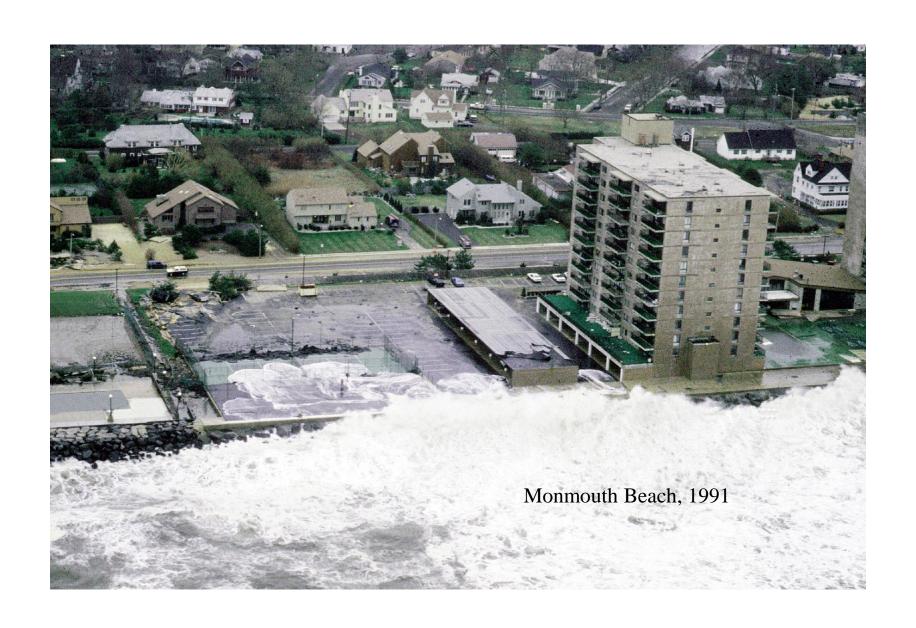
Responses to Climate Change Depend on Our Institutions: The Case of U.S. Flood Control

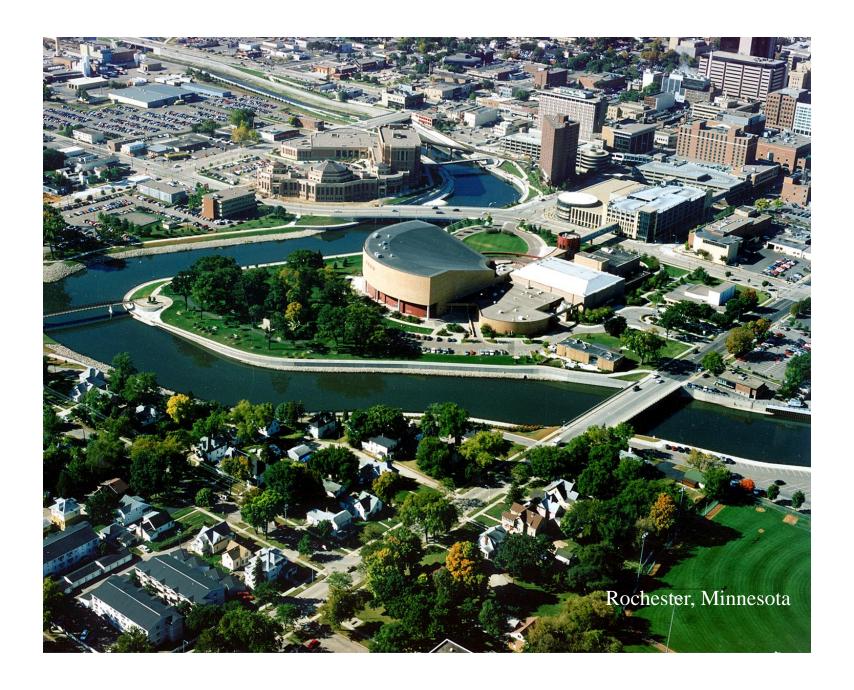
Karen O'Neill, Human Ecology Department





Social scientists can:

- investigate incentives
- identify institutional barriers to action,
- and identify approaches that work



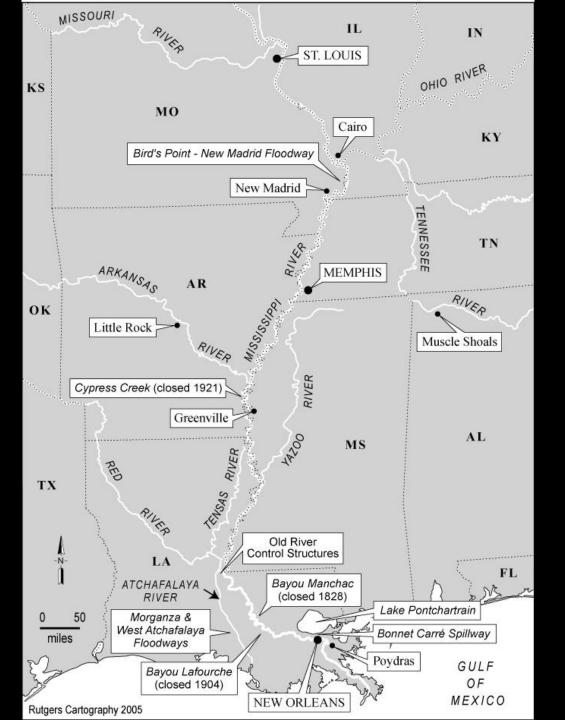
Under climate change scenarios, infrastructure limits our physical options:

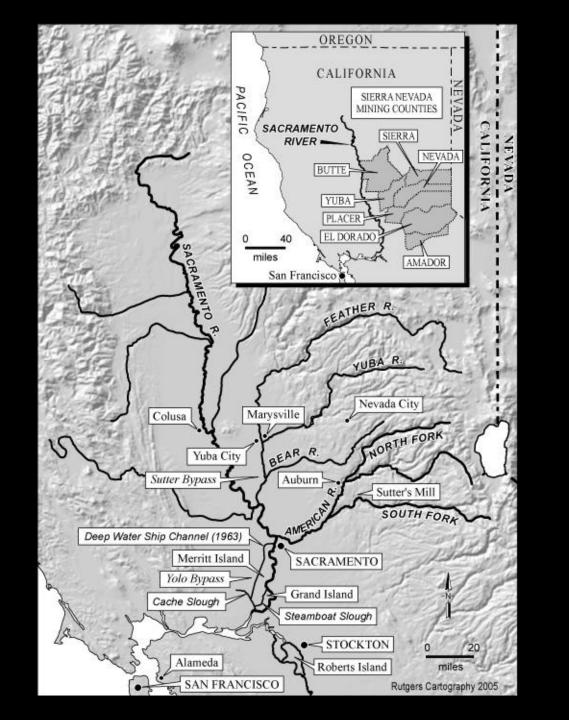
- project designs assume water sources will be replenished
- U.S. flood control and storm-water systems
 - send fresh water quickly to the sea
 - create perverse incentives to build in floodplains



The modern state:

organizes coercive power to control territory





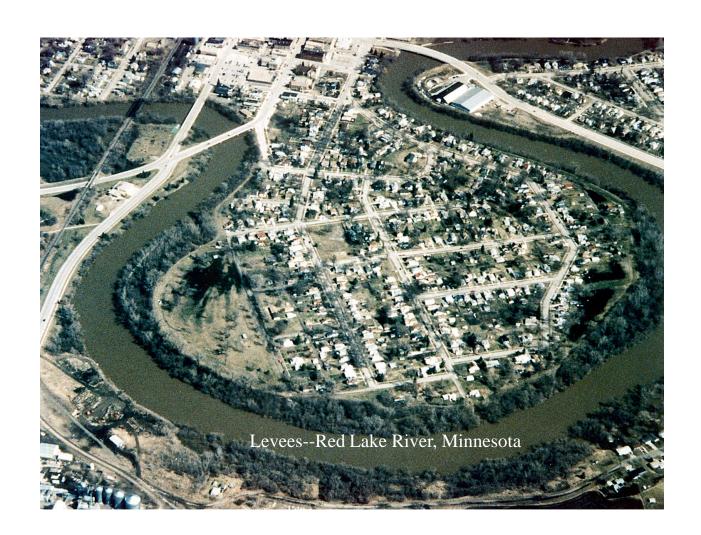
Seeking development aid in a federal system

Local: organizing base is landowner-run levee districts

State: activists gain levee laws and aid

Regional: organize voting blocs in Congress

National: two regional campaigns merge to promote nation-wide aid



Federalism and flood control

- federal government owns the "river"
- 50 state governments own the riverbed
- federal government builds critical levees
- states create levee district laws and facilitate the spending of federal aid
- state governments or local levee districts maintain the levees
- "nonfederal interests" share costs
- contractors do the work

Institutional constraints in U.S. water systems

- control over infrastructure is often decentralized
- strong political support for uncoordinated or even competing systems
- no powerful constituencies for comprehensive resource planning
- project beneficiaries are adept at side-stepping environmental reforms
- however, instances of creative federalism arise