Synthesis: Understanding Social

 Ecological Systems Through a Network of Sites

Debra Peters

Jornada Basin LTER

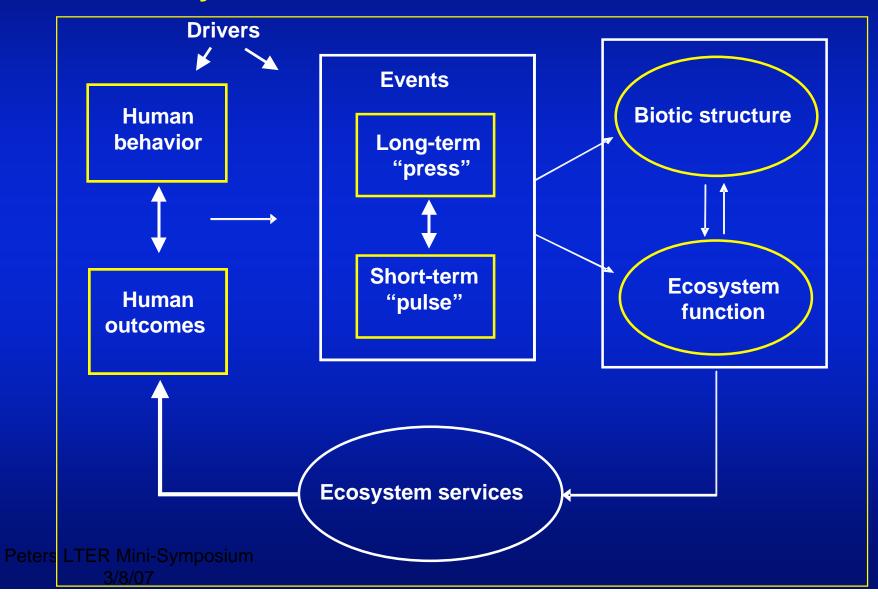






A COMMON GOAL

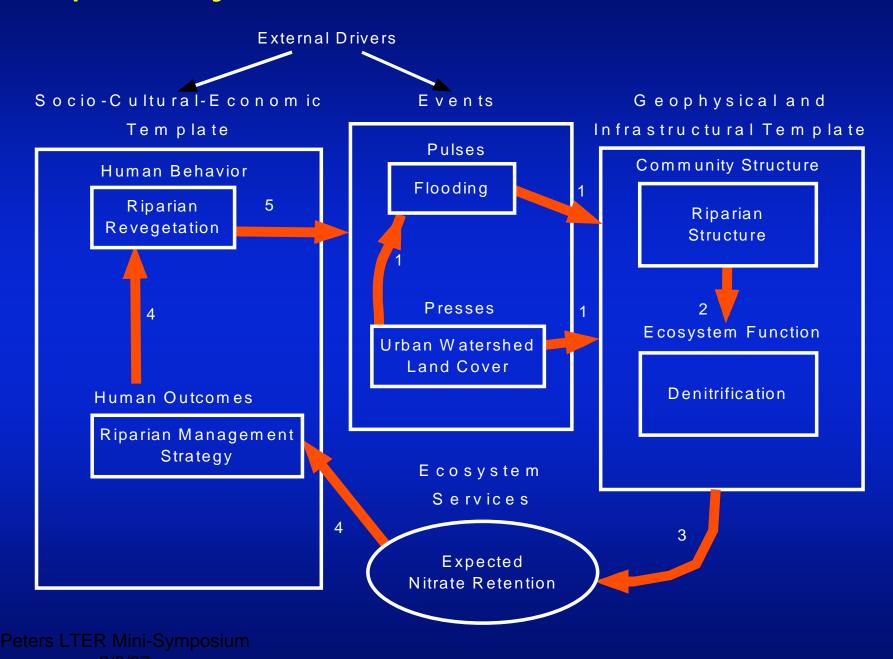
Human systems ◆ Natural systems



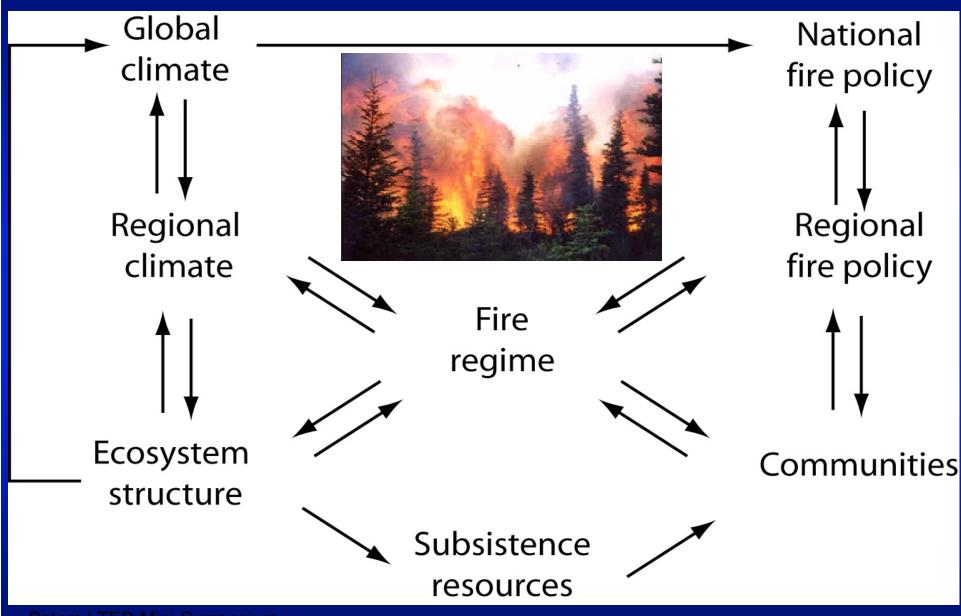
RESEARCH QUESTIONS ARE SYSTEM SPECIFIC, YET NATIONALLY RELEVANT



Chesapeake Bay

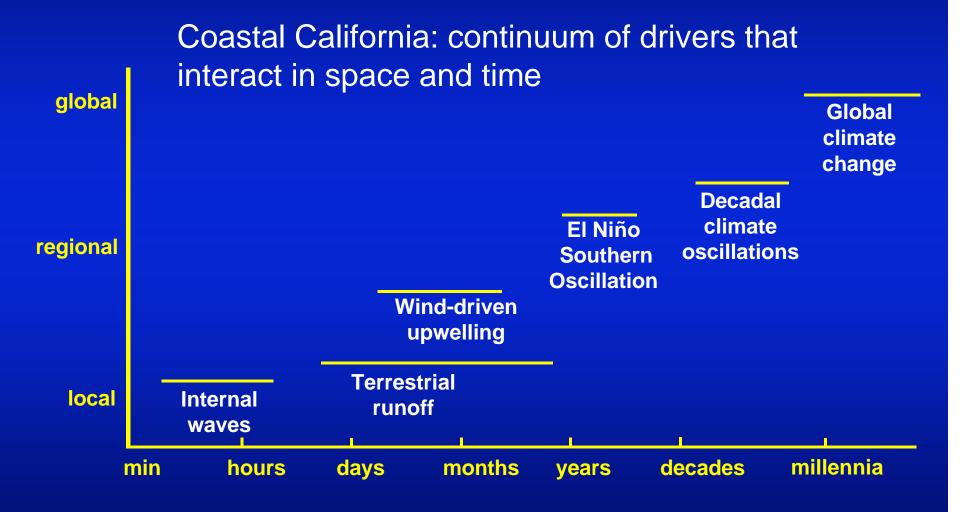


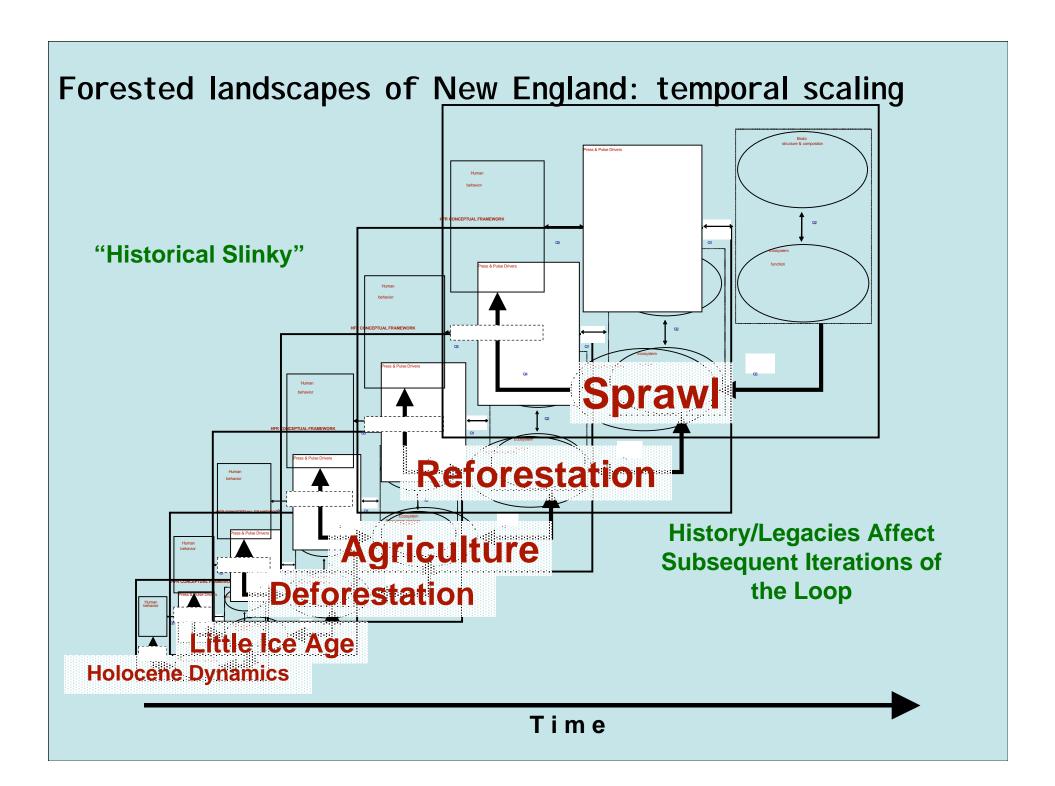
Alaskan systems



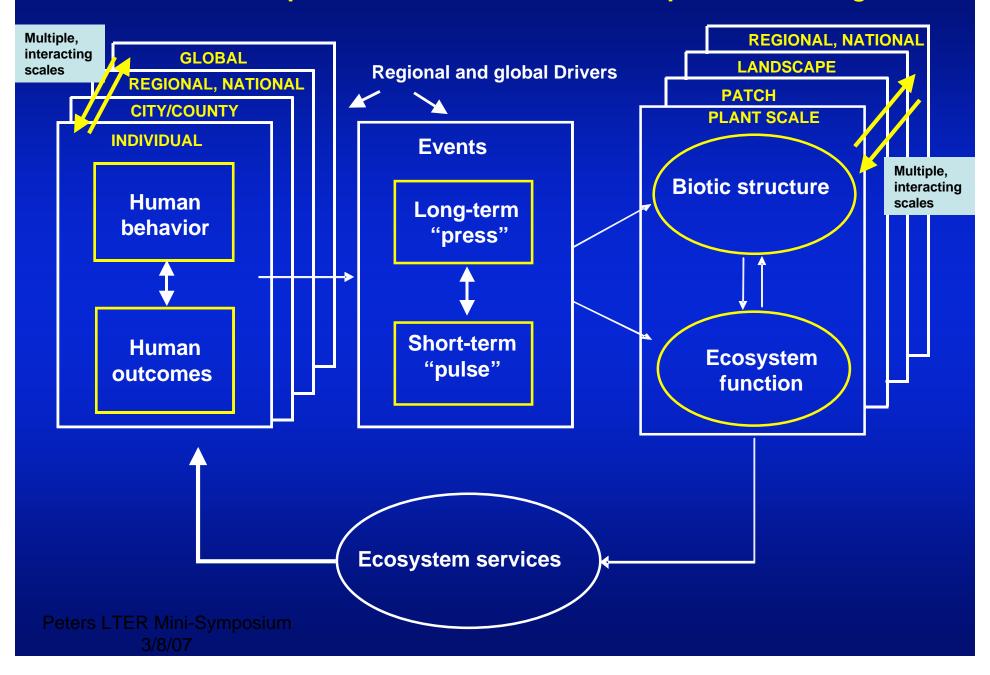
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EACH SITE BRINGS A UNIQUE PERSPECTIVE TO THE PROCESS





Desert landscapes of the Southwest: spatial scaling

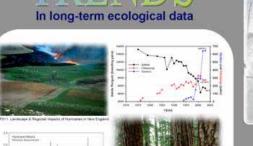


Our Changing World:

An Atlas of Long-Term Trends in Ecological Systems

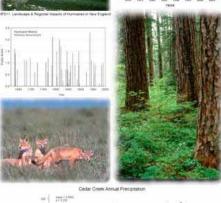


















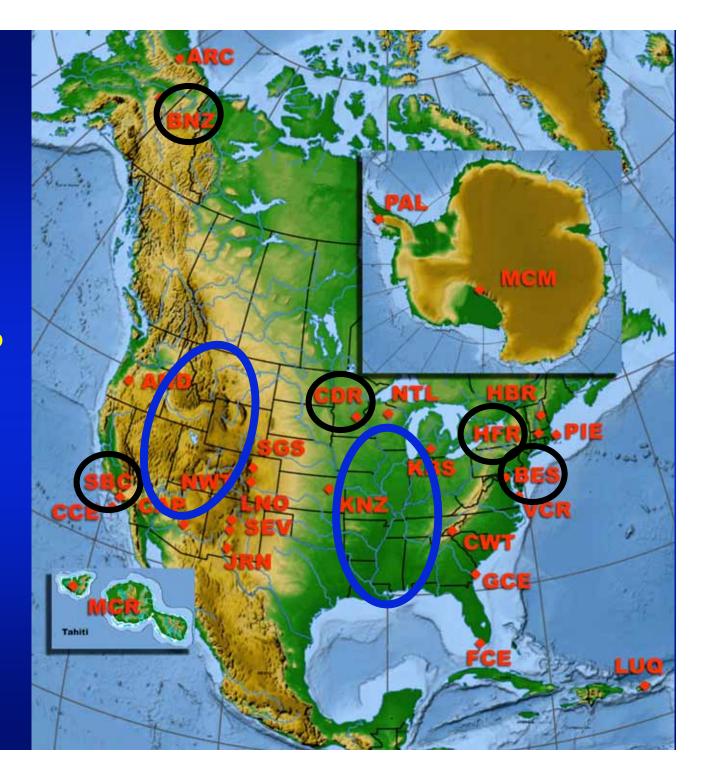




LTER sites build on long-term data and broad knowledge base.

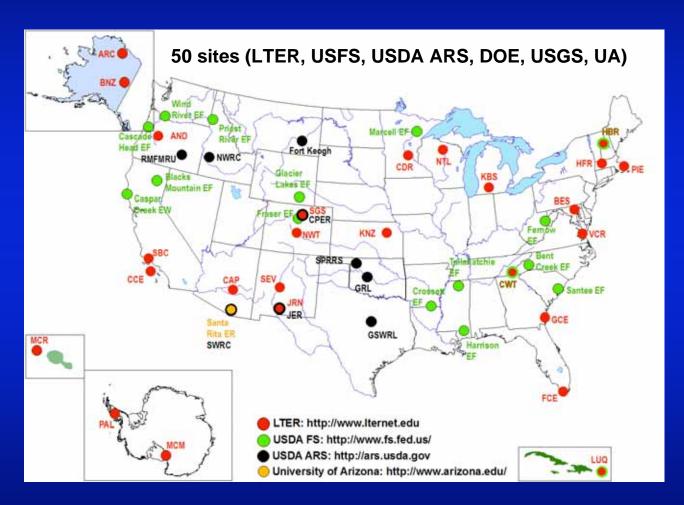
Development of and adherence to information management standards allows synthesis.

Recognize
limitations of 26
site network
(gaps in spatial
coverage).



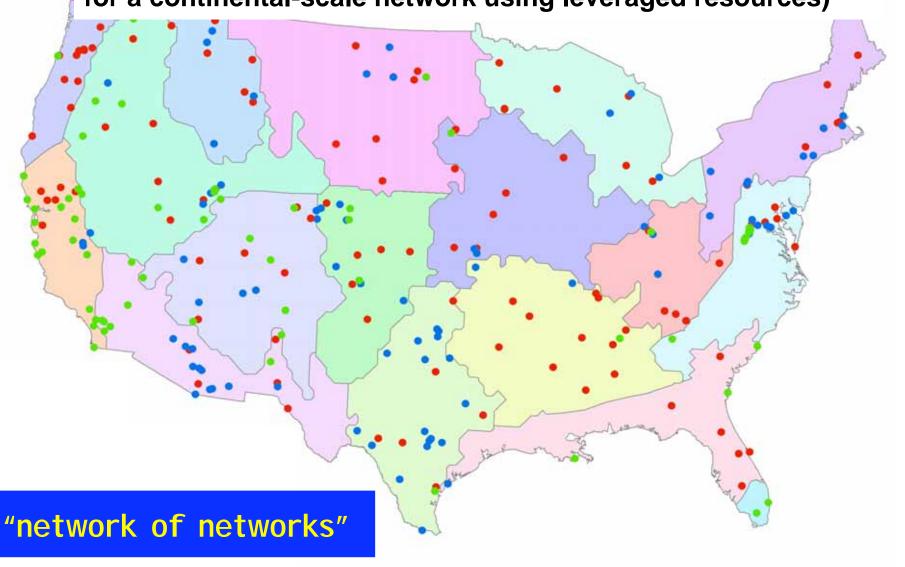
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LTER network works with other sites to fill gaps across the country and leverage resources



Gaps remain that need to be filled in other ways.

(e.g., 244 existing sites identified by the community for a continental-scale network using leveraged resources)



Added value of a network: 26 LTER sites

- Diverse systems, yet common goal ("linked human-natural systems")
- Specific research questions relevant at local to national levels
- Unique perspectives strengthen the network-level product
- Build on long-term data and knowledge base
- Adherence to information management standards allows synthesis (e.g., Trends)
- Network with other sites, but gaps in spatial coverage remain
- PetAddressing/critical questions requires a "network of networks"