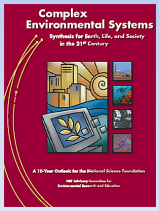
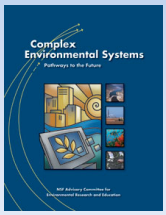
Advisory Committee for Environmental Research and Education at NSF

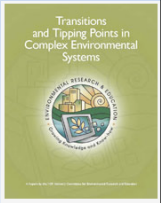
2003



2005



2009



A shifting conceptual focus to Integrated Environmental Science

Biocomplexity Priority Area

2000-2006

- Dynamics of Coupled Natural and Human Systems
- Coupled Biogeochemical Cycles
- Genome-Enabled Environmental Science and Engineering
- Instrumentation Development for Environmental Activities
- Materials Use: Science, Engineering, & Society
- Assembling the Tree of Life
- Ecology of Infectious Disease

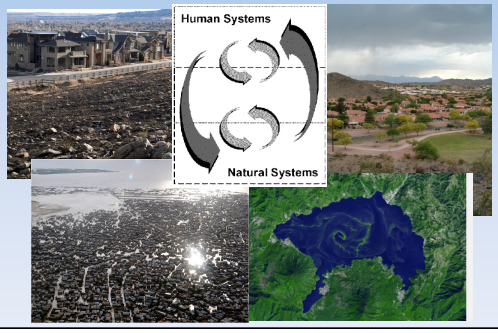
Climate Research Initiative

2009

2010+ Science, Engineering and Education for Sustainability

Dynamics of Coupled Natural AND Human Systems

You can only ignore one word in the title!



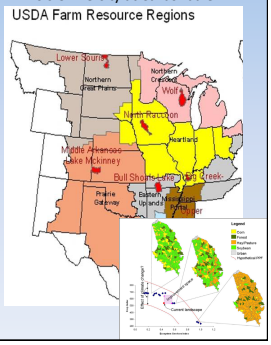
Climate Change, Hydrology, and Landscapes of America's Heartland: A Multi-scale Natural-Human System

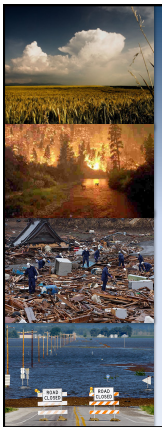
Christopher Lant, Southern Illinois University at Carbondale

This project asks:

How will climate change, together with changing market and policy environments, affect land use patterns at various scales in the central U.S.? How will this change the geography of agricultural production?

Will climate change expand or diminish the agricultural production and ecosystem service generation capacities of mesoscale watersheds representative of Farm Resource Regions?





Science, Engineering and Education for Sustainability

www.nsf.gov/sees

Currently at 14 Solicitations & 3 more working groups established

Arctic SEES	Dimensions of Biodiversity	Sustainable Chemistry, Engineering, and Materials (SusChEM)
Climate Change Education Partnerships	Ocean Acidifcation	Sustainable Energy Pathways (SEP)
Coastal SEES	Partnerships for International Research & Education (PIRE)	Sustainability Research Networks (SRN)
Decadal & Regional Climate Prediction Using Earth System Models (EaSM)	Research Coordination Networks (RCN)	Water Sustainability and Climate (WSC)
Dynamics of Coupled Natural & Human Systems(CNH)	SEES Fellows	