

So what don't we know: space-time patterns



- * Complex **spatial** patterns (Why do some trees die and others don't; why is summer streamflow in some locations far more sensitive to warmer temperature)
- * How will changes evolve through **time** (What will future forests, water resources look like? Next decade..beyond)
- * What role can management, mitigation play? (What can we **do**)

Start with conceptual model

- Conceptual model of how much water forests need and use
- Conceptual model of some forest management actions designed to alter:
 - streamflow/recharge
 - forest drought vulnerability
- Then select/design process-based models to improve understanding and reduce uncertainty in estimating how climate/land use change alters forest ecohydrology