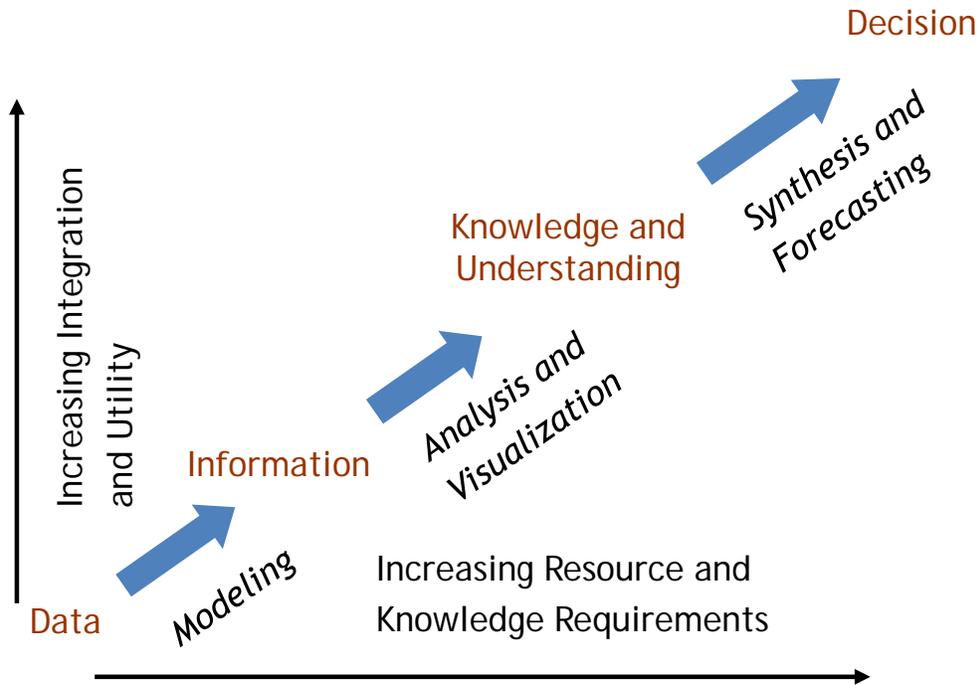


The Delta Science Program, Ecosystem Restoration Program & Surface Water Ambient Monitoring Program Jointly Present a Brown Bag Seminar Series

**Integrated Ecosystem Modeling for Adaptive Management
Lessons from the Great Lakes and Implications for the Bay-Delta System**

Dr. John Wolfe
LimnoTech

Tuesday, July 7, 2015, 12:00 – 1:00 p.m.
Location: Park Tower Building
2nd Floor Conference Room
980 Ninth St., Sacramento, CA 95814



Integrated Ecosystem Modeling for Adaptive Management

Managing large, interconnected systems of water bodies presents complex challenges. These challenges can be addressed using ecosystem modeling to explore the possible impacts of various management options and changes in ambient conditions on ecological outcomes. Such ecological forecasting models can integrate the impacts of varying environmental variables on ecological outcomes and support the adaptive management process. Since the 1970s, the Great Lakes community has used ecological forecasting models to support management decisions. The recent re-emergence of nuisance algae in the Great Lakes demonstrated the need to incorporate adaptive management into the decision-making process.

The complexity and uncertainties facing the Bay-Delta system present many challenges similar to those in the Great Lakes system. The use of ecosystem modeling and adaptive management is essential and will help scientists and managers understand possible outcomes under different management decisions. This presentation will provide real-world lessons and describe the benefits of integrated modeling as part of an adaptive management approach that can be applied to the Bay-Delta system.