WK 13 - How to Prepare Ecological Data Sets for Effective Analysis and Sharing

2:00 PM-5:00 PM

August 1st, 2010

Workshop Team

- Robert Cook, *Oak Ridge National Laboratory*

- Viv Hutchison, *US Geological Survey*

- Stephanie Hampton, *National Center for Ecological Analysis and Synthesis*

- Tammy Beaty, *Oak Ridge National Laboratory*

- William Michener, *University of New Mexico*

- Bruce Wilson, *Oak Ridge National Laboratory*

- Suresh SanthanaVannan, *Oak Ridge National Laboratory*

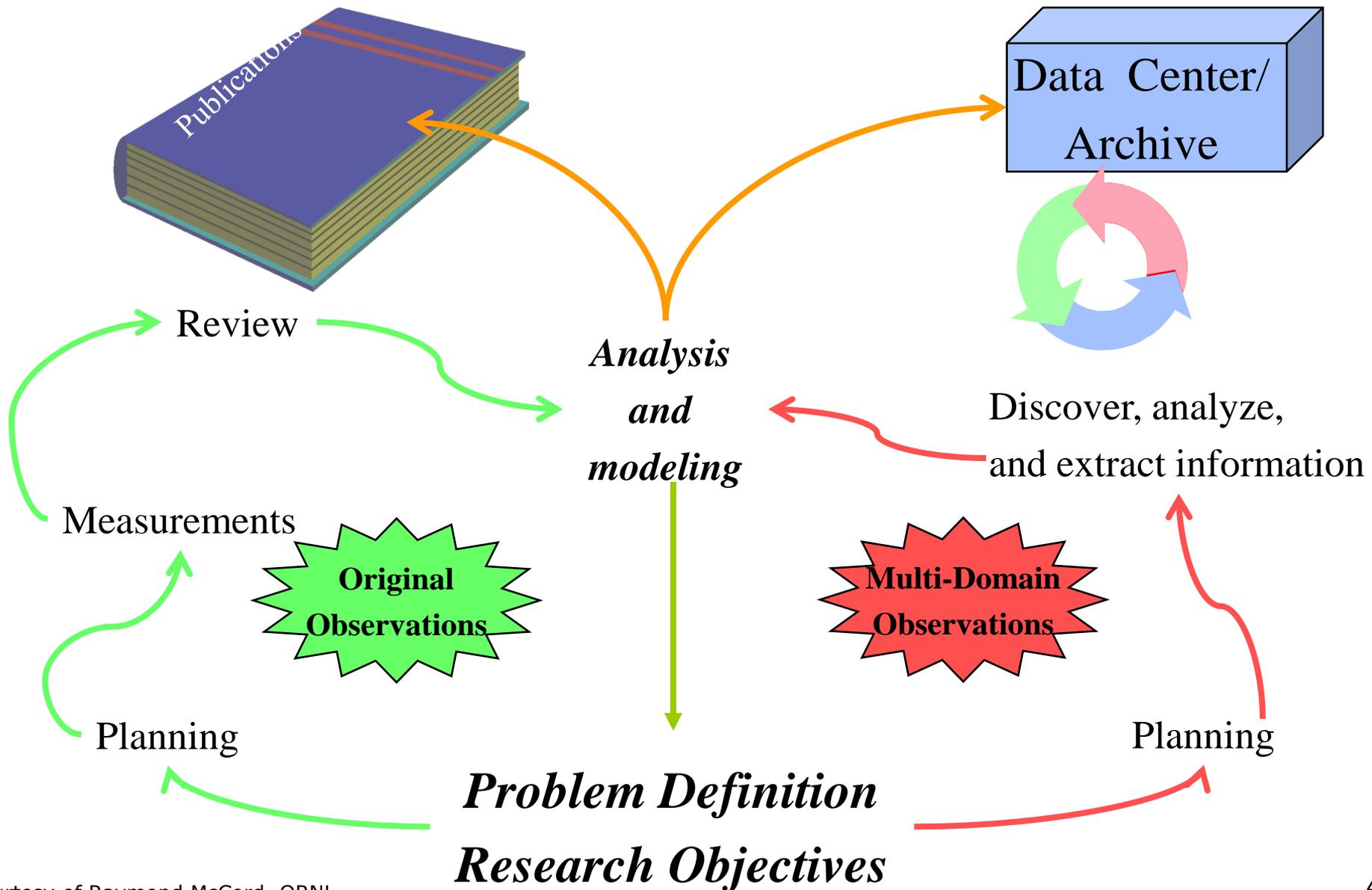- Mark Schildhauer, *National Center for Ecological Analysis and Synthesis*

Workshop Goal

Provide guidance on data management practices that investigators should perform during the course of data collection to improve the usability of their data sets

Cycles of Research – An Information View

Publications

Data Center/ Archive

Review

Analysis and modeling

Discover, analyze, and extract information

Measurements

Original Observations

Multi-Domain Observations

Planning

Planning

Problem Definition Research Objectives

Benefits of Good Data Management Practices

Short-term

- Spend less time doing data management and more time doing research

- Easier to prepare and use data for yourself

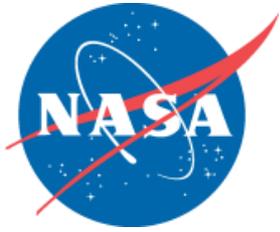- Collaborators can readily understand and use data files

Long-term (data publication)

- Scientists outside your project can find, understand, and use your data

- You get credit for archived data products and their use in other papers

- Sponsors protect their investment

Workshop Sponsors

Workshop Agenda

Best Practices

2:00 - 2:15 Workshop Introduction (Bob Cook, ORNL)

2:15 - 2:45 Fundamental Practices for Preparing Data Sets (Bob Cook, ORNL)

2:45 - 3:15 Organizing data sets for sharing

Collaboration and Data Sharing (Stefanie Hampton, NCEAS)

Organizing data sets: Participants are encouraged to bring their own data sets, which we will assist in organizing (Workshop Team)

3:15-3:30 Break

3:30 – 4:15 Introduction to Metadata (Viv Hutchison, USGS)

4:15 – 4:45 Elements of a Data Management Plan (Bill Michener, University of New Mexico)

4:45 – 5:00 Workshop Closing (Bob Cook, ORNL)