



NECC Evaluation and Assessment

Executive Committee Report



AAAS Evaluation



- Part of Vermont Genetics Network AAAS visit, 12-14 June 2011
- Dr. Sally Mason, President, U. Iowa
- Dr. Roger Baldwin, Professor, Dept of Educational Administration, Michigan State
- Mr. Glenn Bresnahan, Director, Scientific Computing and Visualization, Boston University



NECC / AAAS meeting



- Fiber Project Review
 - Judy Van Houten, Kelvin Chu
 - David Todd (CIO)
 - Jim Vincent (VGN Bioinformatics Core)
- Videoconference:
 - Vermont: Van Houten, Chu
 - New Hampshire: Valcourt
 - Maine: Nemeth, Hand
 - Rhode island: Specker, Shaikh, Wilson
 - Delaware: Steiner

Regional Impacts



- Little Skate Genomics project
- Blue-green Algae Metagenomics
- RACER
- Shared data centers (Maine, Delaware)

Pilot awards for Novel Scientific Collaboration



2010: Meiofaunal Metagenetics

- Dr. W. Kelly Thomas, UNH Hubbard Professor of Genomics, Director of Genomic Studies; Dr. Holly Bik, UNH, Dr. Jim Vincent, UVM
- Establish a database structure and data repository for eukaryotic metagenetic studies using the NECC data center.



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Pilot awards for Novel Scientific Collaboration

2011: Julia Daly (U. Maine Farmington), “Developing
a Cyber-Enabled Northeastern Monitored Lake
Temperature (MeLT) Network”

- Develop an regional database for high-resolution lake environmental data using U. Maine Data Center
- NECC-wide visualization and regional analysis of data using U. Maine facilities.
- Collaboration w/ Lori LaPlante (St. Anselms College, NH)





Pilot awards for Novel Scientific Collaboration

2011: Benjamin King, “Discovery of microRNAs Expressed in Response to Hypoxia in the Estuarine Fish, *Fundulus heteroclitus* ”

- Characterize miRNA expression levels in *Fundulus heteroclitus* (model system for understand genetic-environment interactions including anthropogenic environmental change)
- Collaboration w/ Kevin Peterson, Dartmouth College



Leverage



- Delaware: MRI for next-gen sequencer
- Rhode Island: collaboration w/ RISD for visualization of genomics data
- New Hampshire and Delaware: introduction of bioinformatics into classroom
- NECC Watershed project engaging ugrads and HS students
- Vermont: bio-IT professional for shared data center, 2 full-time summer internships

Recommendations



- RACER should continue
- Regional collaboration is working well - relies upon interconnectivity of states and therefore need to monitor how states progress;
- VGN should consider asking project evaluator Joy Livingston to assess impacts of NECC.



Thank You.



National Center for
Research Resources

