

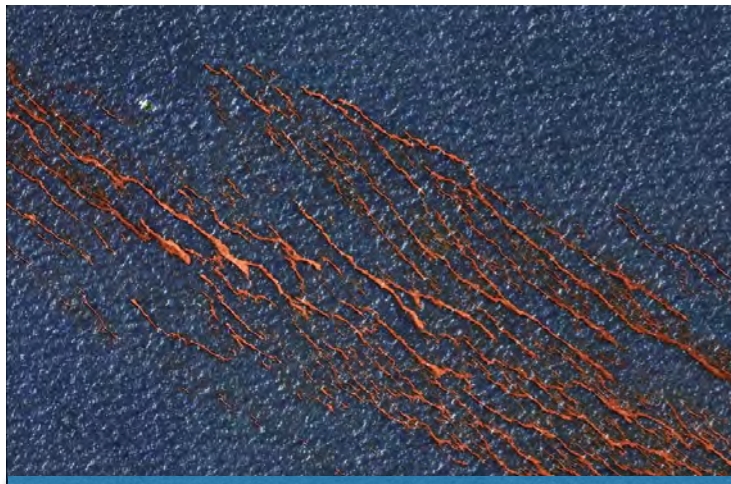
The Center for Computation & Visualization

Computing & Information Services
Brown University

The Center for Computation and Visualization is a hub for connecting EPSCoR researchers with application scientists and computational and visualization resources to support their scientific research projects.



Visualizing Phytoplankton in Virtual Space
Melissa Omand, Professor, University of Rhode Island & Tom Sgouros and Ben Knörlein, CCV staff; RI STAC grant



Climate Modeling: Large Eddy Simulations
Qing Li, PhD candidate, Brown University
Dept. of Earth, Environments, & Planetary Sciences

Application Scientists

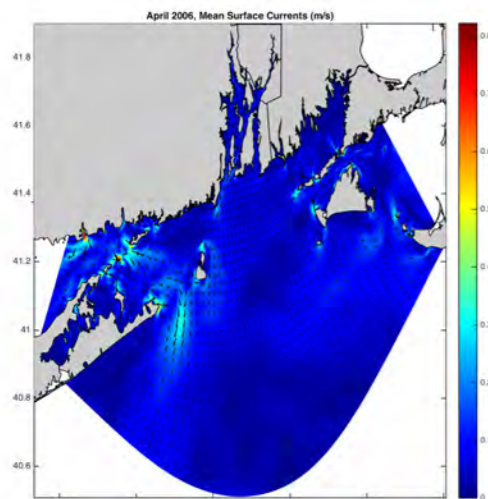
CCV staff are our greatest resource. They provide scientific programming support to our researchers, from one-time problem solving to joining the researcher's team as full participants and co-authors for the duration of the project. They help researchers via workshops and in-class instruction. They aid in developing and enhancing our cyberinfrastructure for our researchers' evolving needs.

Computational Resources

CCV provides a custom research environment for our researchers to support their projects bridging their own labs and national supercomputers. CCV's high speed networks connect Brown to the rest of the EPSCoR sites in Rhode Island and to Internet2. Our high performance computing cluster provides the storage systems and compute nodes to process Big Data, parallel computation, and massive core serial jobs.

Helen Kershaw, PhD in Eng
Ben Knörlein, PhD in Vision Science
Peisi Yan, PhD in Biostatistics
Mukul Dave, MS in Engineering

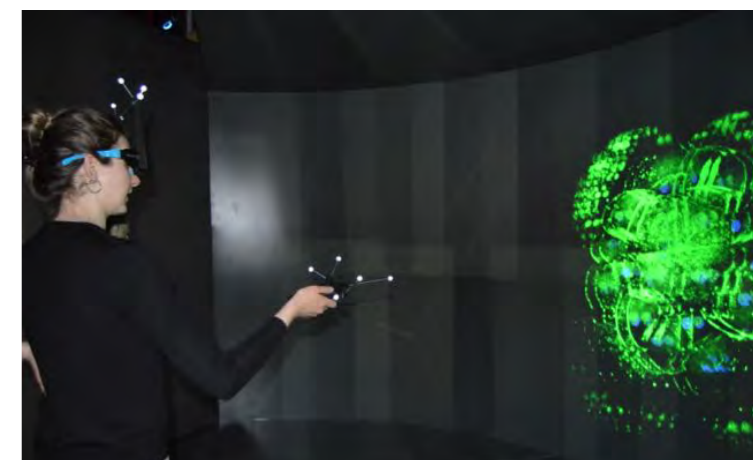
HPC cluster: 7,000 cores
Research Network: 10 Gigabits
Interconnect Network: 56 Gigabits
GPFS File Storage: 600 Terabytes
Research Software: 600 titles



Modeling Rhode Island Bays and Sounds

Prof. B. Fox-Kemper, Brown U., Dept. of Earth, Environments, & Planetary Sciences; D. Ullman, Marine Scientist, URI; Profs. C. Kincaid and L. Rothstein, Oceanography, URI; D. Leavitt and D. Taylor; RI STAC grant

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Embryonic Development of *Crepidula fornicata*
Beatrice Steinert, Senior Honors Thesis, Biology & Science and Society, Brown University