

## **A. Center/Institute/Program**

### **Institute for the Study of Earth, Oceans, and Space, University of New Hampshire**

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Director/Chairperson: Dr. Berrien Moore III

Representative to AERC: Erik Hobbie

Alternate Representative: Scott Ollinger

## **B. Major objectives of the Center/Institute/Program**

1. Understanding the dynamics of earth as a system and its interactions with the sun.
2. Understanding biogeochemical cycles at local to global scales.
3. Understanding human impacts on the global system.

## **C. Major ecosystem research emphases**

1. Nutrient cycling, modeling.
2. Forest ecosystems.
3. Wetland ecosystems.
4. Atmospheric trace gases, fluxes.
5. Remote sensing.
6. Ocean productivity.

## **D. Staff**

Permanent scientific staff: PhD: 65, MS: 30

Scientific support staff: Postdocs: 7, Technicians: 40

Other support staff: Clerical: 5, Administrative: 13, Editorial: 2

Graduate students: PhD: 25, MS: 25

Summer undergraduates: 10

## **E. Approximate annual funding (recent year)**

Core funding: \$5,000,000/yr, Source: State of New Hampshire  
Grants: \$35,000,000/yr, Major sources: NASA, NSF, NOAA, EPA, DOE, U.S. Forest Service

#### **F. Areas and facilities for ecosystem research studies**

None owned by University or Institute – scientists use wide variety of forest, wetland, lake and glacial research areas around the globe, plus several ocean regions. Local sites include Hubbard Brook and Harvard Forest research sites.

#### **G. Research staff directly involved in ecosystem research (names and specialty areas)**

Campbell, Janet - marine productivity, ocean color  
He, Pingguo - fisheries  
Fahnestock, Mark – glaciology research  
Frolking, Steve - biogeochemistry  
Hobbie, Erik - biogeochemistry  
Hurt, George - biogeochemistry, modeling  
Lammers, Richard - hydrology and aquatic biogeochemistry  
Li, Changsheng - trace gas fluxes, modeling  
Martin, Mary - forest ecosystem analysis, remote sensing  
Morrison, John - coastal biological oceanography  
Ollinger, Scott - terrestrial ecosystems, biogeochemical cycling  
Richardson, Andrew - forest ecosystems, physiological ecology  
Rock, Barry - forest ecosystems, remote sensing  
Rosenberg, Andrew - fisheries  
Rubin, Fay - GIS/land use  
Salisbury, Joe - marine biogeochemistry  
Schloss, Annette - ecosystem modeling, data distribution  
Vandemark, Doug - marine biogeochemistry  
Varner, Ruth - trace gas fluxes, biogeochemistry  
Vorosmarty, Charles - hydrologic modeling, global climate change  
Wil Wolheim - hydrology and aquatic biogeochemistry

#### **H. Long-term data sets (code name, number of years of data, computer accessibility)**

1. A variety of environmental, ecological, remote sensing, climate and earth systems data products covering regions from New Hampshire to the globe are available under the data products link at <http://www.csrc.sr.unh.edu/>
2. Time series and spatial data sets from remote sensing, ecological modeling, climatology and climate modeling are available through EOS WESTER, <http://eos-webster.sr.unh.edu/home.jsp>.
3. Marine data sets from the Ocean Process Analysis Lab are available at <http://www.opal.sr.unh.edu/>