

**Cooperative Institute, the Cooperative Institute for Oceanographic Satellite Studies  
(CIOSS)  
Oregon State University, Corvallis, OR**

1.) On April 1, 2003, NOAA/NESDIS established the first competitive Cooperative Institute, the Cooperative Institute for Oceanographic Satellite Studies (CIOSS) at Oregon State University at Corvallis, OR. The Memorandum of Agreement was signed by NOAA on December 23, 2003.

The mission of CIOSS is to be a center of excellence in satellite remote-sensing research relevant to understanding and providing adequate stewardship of the Earth's oceans, coastal waters, marine ecosystems and the living and non-living resources with these regions.

2.) The first year funding, ending March 31, 2004, was \$698,591.

a) \$183,920.00 was applied to the establishment of CIOSS; \$514,671.00 is being applied to the research program.

b) There are four broad research themes:

1. Development and evaluation of improved fields of surface fluxes and biological fields using satellite remote sensing;
2. Integration of these satellite-derived fields into numerical models of the ocean and atmospheric circulation and biophysics with the goal of ocean-atmosphere models in open-ocean and coastal regions;
3. Evaluation of these models and remotely sensed fields through their dynamical analyses
4. Development of satellite oceanography techniques and applications, specifically including the use of new satellite ocean sensor technology and the calibration, validation, and application of such new technologies

c) Most of the original research plan is expected to be medium term (2-5 years) to long term (greater than 5 years)

The 5 year research plan is still evolving and should be finalized by late March 2004

d) The geographic area of initial interest are the broad-scale "coastal" regions of the U.S., starting with the California Current System within 500+ miles of the North American west coast.

3.) At this time, all the funding for CIOSS comes from NOAA, primarily from the NOAA Ocean Remote Sensing program.

4.) CIOSS is collocated with the College of Oceanic and Atmospheric Sciences (COAS) at Oregon State University. CIOSS draws from COAS' satellite receiving capability, extensive satellite data sets, analysis tools, scientific research and support programs. Staff at COAS have a broad range of expertise in working with active and passive satellite remote sensing data (infrared, scatterometry, altimetry, etc.) They also have expertise in atmospheric processes and ocean-atmospheric modeling particularly in the coastal and near-coastal zone. This unique

combination of expertise is being leveraged by CIOSS to research remote sensing applications of interest to NOAA.

5. ) Partial support (50% or more) for up to seven (7) Post-doc scientists and one administrative support person is provided by NOAA.

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