



# ABOUT CPAESS

## COOPERATIVE PROGRAMS FOR THE ADVANCEMENT OF EARTH SYSTEM SCIENCE

### What is CPAESS?

We are a team of professionals that provide experience, value, and expert management tailored to meet the specific needs of the Earth system science community. We develop customizable solutions to complex scientific challenges by advancing research capabilities, building community collaborations, and fostering scientific leadership and workforce.

CPAESS works in service to the scientific community providing a wide array of business services – from partnerships and strategic partnerships; to scientific event management; to research and career opportunities. We develop long-term partnerships within the Earth system science community by collaboratively developing specially made programs to meet specific goals and objectives.

### Scientific Partnerships

CPAESS collaborates with the scientific community supporting large-scale partnerships and initiatives that are generally long-term commitments, often funded through cooperative agreements. Partnerships may involve complex science program facilitation, coordination, management and/or scientific workforce appointments.

We also have strategic partnerships managing programs which may be supported through a single agency or be multi-agency funded national research efforts enabling unique scientific research. CPAESS provides a wide array of business services and staffing support within these strategic partnerships and programs.

### Partnerships

- NOAA Climate Program Office
- NOAA Science Collaboration Program
- NASA Cooperative Program for the Advancement of Heliophysics Science
- NOAA Atlantic Oceanographic and Meteorological Laboratory
- U.S. Naval Research Lab Marine Meteorology
- United States Geological Survey
- NOAA Okeanos Explorer Program
- U.S. Army Corps of Engineers Collaborative Research and Development Program
- U.S. Air Force Weather Agency, 557th Weather Wing
- U.S. Geological Survey

### Science Programs

- U.S. Carbon Cycle Science Program
- US Climate Variability & Predictability Program

## Scientific Event Management

CPAESS convenes over 200 different events each year. As a part of UCAR, CPAESS is embedded in the Earth system science culture. Our relationships and experience make us uniquely positioned to assemble your scientific community. The range of services provided include comprehensive event planning and management, financial management, virtual and broadcasting capabilities, website and registration services, and a multitude of other logistical details.

We provide the framework to organize both large-scale conferences and gatherings down to tightly-focused small group and committee meetings, with attendees numbering from less than 10 to 1500. Whatever your need, we can help you plan it, arrange it, promote and report on registration, and manage logistics of all kinds. You focus on the science and we'll handle the rest.

Providing events management for the scientific community enables the promotion of collaboration, idea sharing, interdisciplinary research, and community-building. Events leverage connections between cutting-edge research, operations, and education.

## Research and Career Opportunities

We partner with several federal agencies to provide both undergraduate and graduate educational opportunities, as well as scientific research and federal agency appointment opportunities.

### Undergraduate and Graduate Opportunities

CPAESS works with NASA to offer its *NASA Living with a Star Heliophysics Summer School* and the *NASA Living with a Star Jack Eddy Postdoctoral Fellowship* programs. Both focus on the exciting science of heliophysics as a broad, coherent discipline that focuses on the physics of space weather events that start at the Sun and influence the spheres.

We also work with NOAA to support the *NOAA Okeanos Explorer-in-Training Program* which trains undergraduate and graduate ocean mapping interns in the use of bathymetric sonar mapping systems aboard the NOAA Ship Okeanos Explorer. Additionally we manage the Bill Lapenta internship program which is a 10 week program

where students are matched with NOAA mentors and can focus their study on areas like modeling, programming, how to improve our understanding of forecasting problems, new data analysis techniques, testing of data visualization systems, the incorporation of social science to communicate science, and more.



CPAESS facilitates the prestigious *NOAA Climate & Global Change (C&GC) Postdoctoral Fellowship*. Founded in 1990, the C&GC fellowship program has developed an outstanding reputation for attracting the best and the brightest PhDs in the sciences relevant to the NOAA Climate Program Office. It has been instrumental in developing today's climate research experts and leaders.

### Short-term Research Collaborations at NOAA's National Centers for Environmental Prediction (NCEP)

This program offers an opportunity for the research community to be fully integrated within a national scale operational environment for discrete periods of time.

### Scientific Appointment Opportunities at U.S. Federal Agencies

CPAESS facilitates and manages scientific research and research-to-operations appointments for early career and expert scientists at U.S. institutions, federal laboratories and program offices. CPAESS also offers long-term job opportunities and workforce management at selected federal locations, in accordance with UCAR collaboration agreements with federal sponsors and agencies. We currently have about 120 employees across the nation in numerous federal agencies.

## Our Partners

