



Joint Research Institutes

Centers of Excellence in Science



NOAA and CIMMS scientists helped develop the Warning Decision Support System. During 4 years of testing the system dramatically helped forecasters produce more timely and reliable warnings. The average lead time for tornado warnings increased from 9 to 17 minutes and the probability of detection of tornadoes increased from an average of 58% to 68%.



Preparing for an ozonesonde launch near McMurdo Station, Antarctica. Major expeditions have been sent from CIRES to the Himalayas to study continental drift, Australia and Canada to study winds in atmospheric and climate dynamics, Greenland to study the behavior and characteristics of ice and glaciers, and Antarctica to study the expanding ozone hole.

What do the NOAA Research Joint Institutes do?

The eleven Joint and Cooperative Institutes bring together the resources of a research-oriented university or institution, NOAA Research, and other NOAA programs. They promote collaboration between university scientists and NOAA scientists so that academic and government researchers can work together to learn about and apply their knowledge to environmental processes.

The NOAA Joint Research Institutes are centers of excellence in research relevant to understanding the Earth's oceans, atmosphere, Great Lakes, Arctic regions, and regions similar to the US intermountain west, as well as the solar-terrestrial environment. Cutting-edge research is being conducted under a broad umbrella of environmental themes, such as climate variability, air quality, sea-ice dynamics, coastal ecosystems, fisheries oceanography, hydrology, and weather research and forecasting.

These theme areas, each with significant implications for human society, are interrelated, and scientific progress will require collaborations by scientists within and between disciplines. In each case, progress will depend on a combination of basic process studies, the development and deployment of technological systems for long-term observation, and the development of models that are based on an understanding of the underlying processes and that incorporate information from the observations.

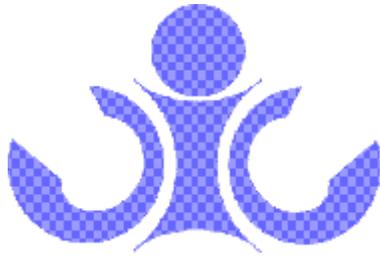
Staff and Funding:

The NOAA Research Joint Institutes are a \$68 million dollar NOAA program supporting 901 researchers across the country.

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