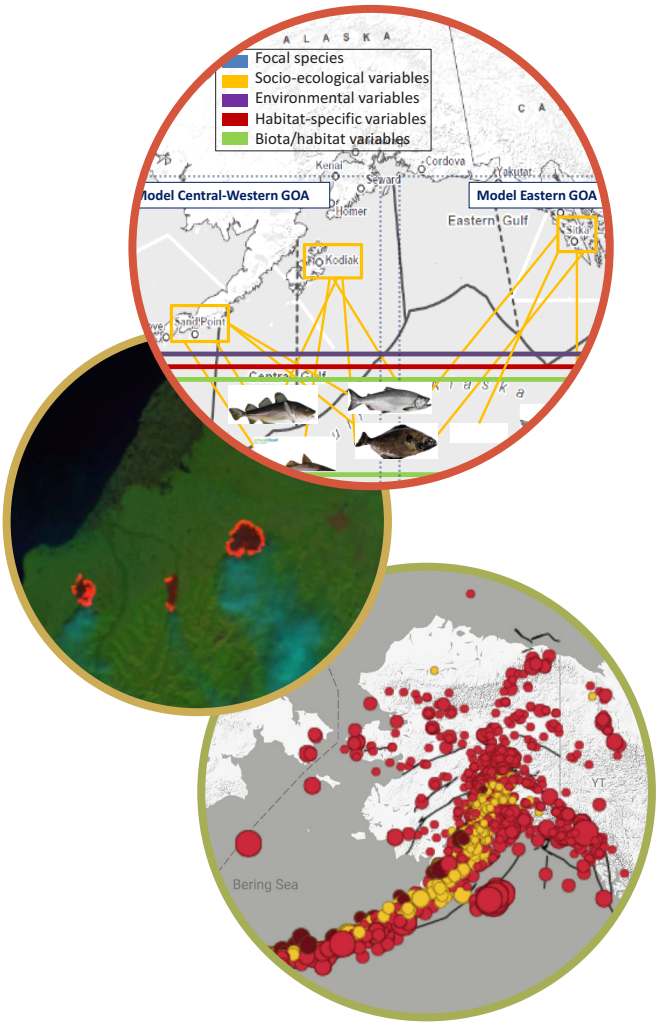
COOPERATIVE INSTITUTE FOR ALASKA RESEARCH

WHAT IS CIFAR?

The Cooperative Institute for Alaska Research **FOSTERS COLLABORATION** between National Oceanic and Atmospheric Administration (NOAA), the University of Alaska, and others doing **RESEARCH IN ALASKA** and its associated Arctic regions. Our priorities range from **BASIC SCIENCE**, to **OPERATIONS**, to **INFORMING POLICY**. CIFAR is one of 16 NOAA Cooperative Institutes.



ALASKA THEMES

As NOAA's Alaska Regional Cooperative Institute, CIFAR facilitates research, education and outreach in three broad themes:

ECOSYSTEM STUDIES AND FORECASTING

We build models for major ecological functions in the Gulf of Alaska. Our commercial and subsistence fisheries models are built using available scientific data and local ecological knowledge.

CLIMATE CHANGE AND VARIABILITY

We develop real-time products for National Weather Service operations. Our satellite imagery helps locate wildfire and reveal fire details.

COASTAL HAZARDS

We monitor earthquakes to anticipate tsunamis. In collaboration with the Alaska Earthquake Center, we create weekly and monthly seismic reports.

CIFAR Cooperative Institute For Alaska Research

FOR MORE INFORMATION contact CIFAR associate director, Nancy Fresco; nlfresco@alaska.edu, 907-474-2405 or visit us online at www.cifar.uaf.edu.

NOAA WORKFORCE

CIFAR contributes to NOAA's workforce development.

EDUCATION AND OUTREACH

CIFAR trains students to write winning proposals and publish scientific results. Since 2008, CIFAR has funded 65 students resulting in 21 published papers on:

- improving sea ice forecast guidance using local observations,
- using remote sensing to identify boreal forest fire severity and area assessment,
- understanding the processes that control sliding of tidewater glaciers,
- identifying the effect of economic globalization of the Bristol Bay commercial herring sac roe fishery on the local economy, and
- social structure and identity in the coastal Yup'ik village of Togiak, Alaska.

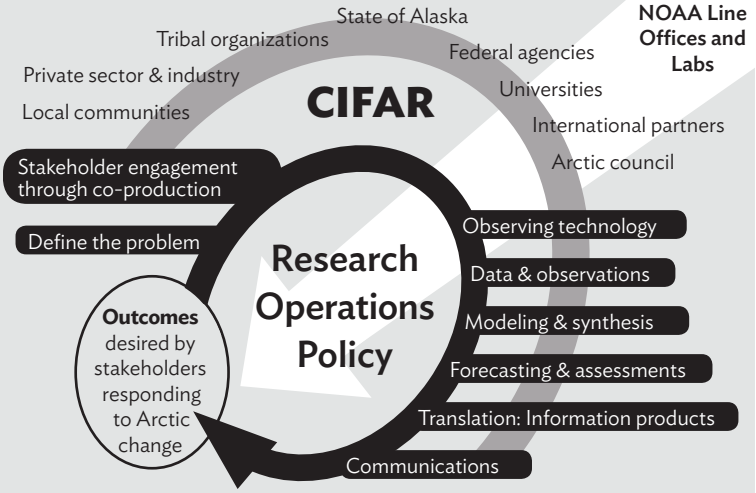
SHORT COURSES

CIFAR scientists collaborate with others (e.g., Alaska Sea Grant Marine Advisory Program, International Arctic Research Center) to teach short courses.

- Climate Change in Alaska Estuaries (June 2008): one-credit lecture, lab, and field course in Kasitsna Bay for teachers and engaged public.
- CIFAR anticipates future courses given continued support and funding.

FOSTERING COOPERATION

CIFAR builds collaboration between the University of Alaska– including multiple institutes and departments– NOAA's line offices, and other partners. This cooperation links activities, missions, and mandates to enable and enhance effective response to rapid Arctic change.



GRADUATE FUNDING INSPIRED BY NOAA NEEDS

In summer 2018 CIFAR will select graduate students to research NOAA Alaska priorities, such as coastal erosion, fire, storm tracks, fish stocks, and others.

CIFAR-FUNDED SCIENTISTS/STUDENTS GO ON TO WORK FOR NOAA

- Jeremy Mathis (NOAA Arctic Program)
- Jessica Cherry (Alaska Pacific River Forecast Office)
- Jessica Cross (PMEL)
- Rebecca Heim (ESSD, NWS Alaska)

IARC International Arctic Research Center University of Alaska Fairbanks