

The Alaska Ocean Observing System Implementing an Ocean Observing System in Alaska

Observer Poster 3194 p. 201

Molly McCammon, G. Carl Schoch, and Mark
Johnson

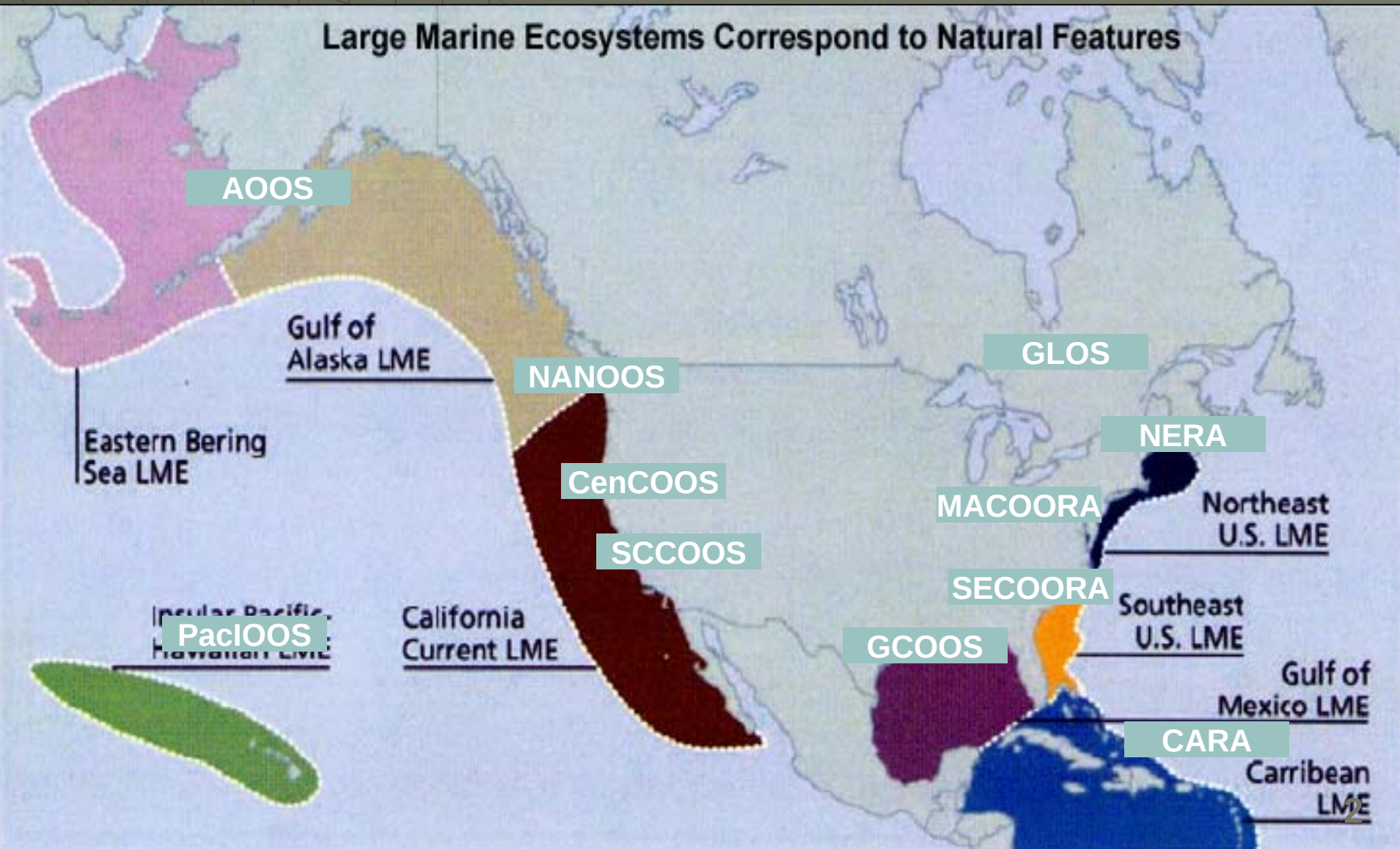
PICES XV

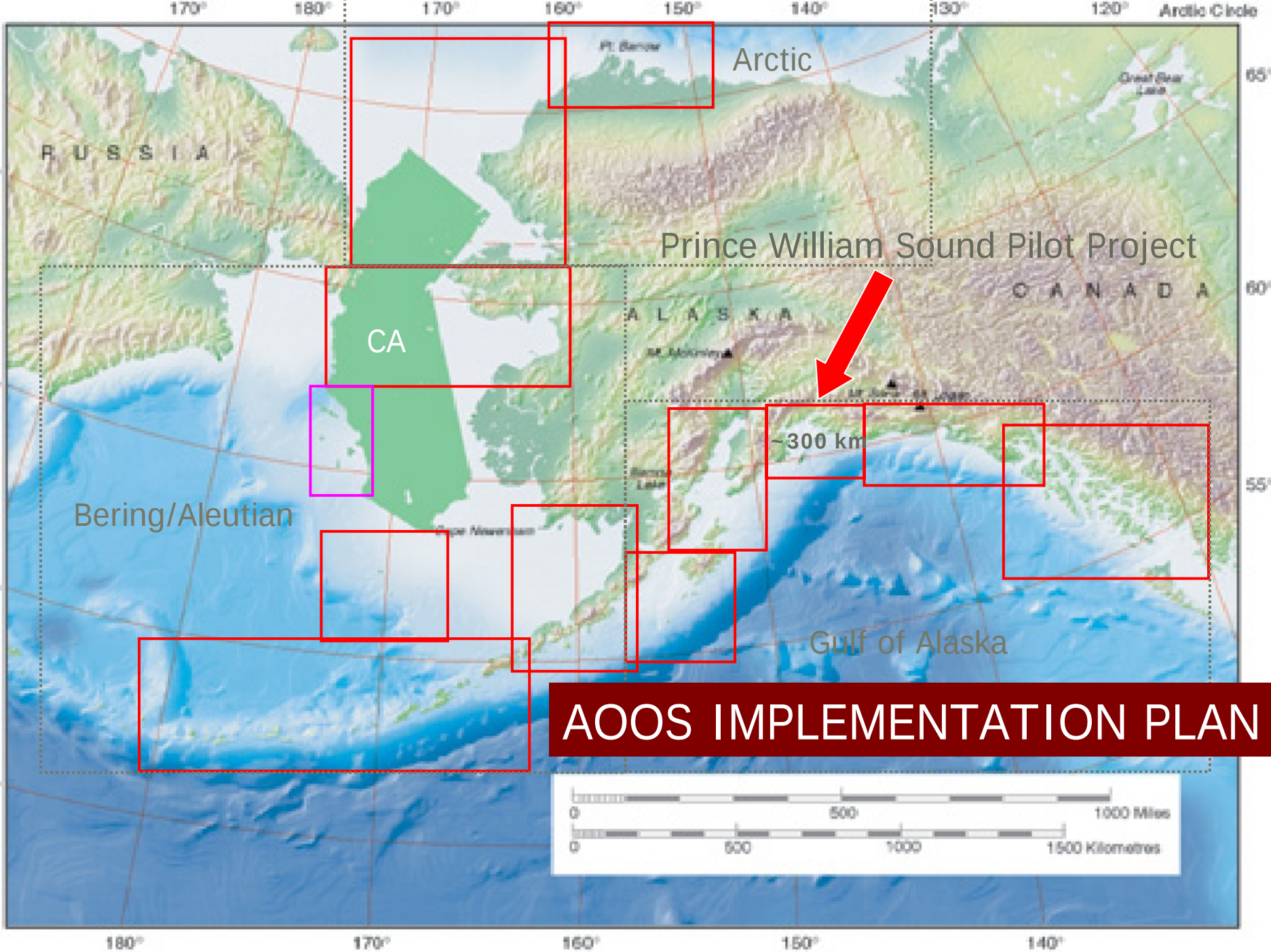
Aka Renga Soko, Yokohama, Japan

October 15, 2006

The Alaska Ocean Observing System
Molly McCammon, Executive Director
1007 W. Third Ave., Suite 100
Anchorage, AK 99501
907-644-6703
mccammon@aoos.org
www.aoos.org

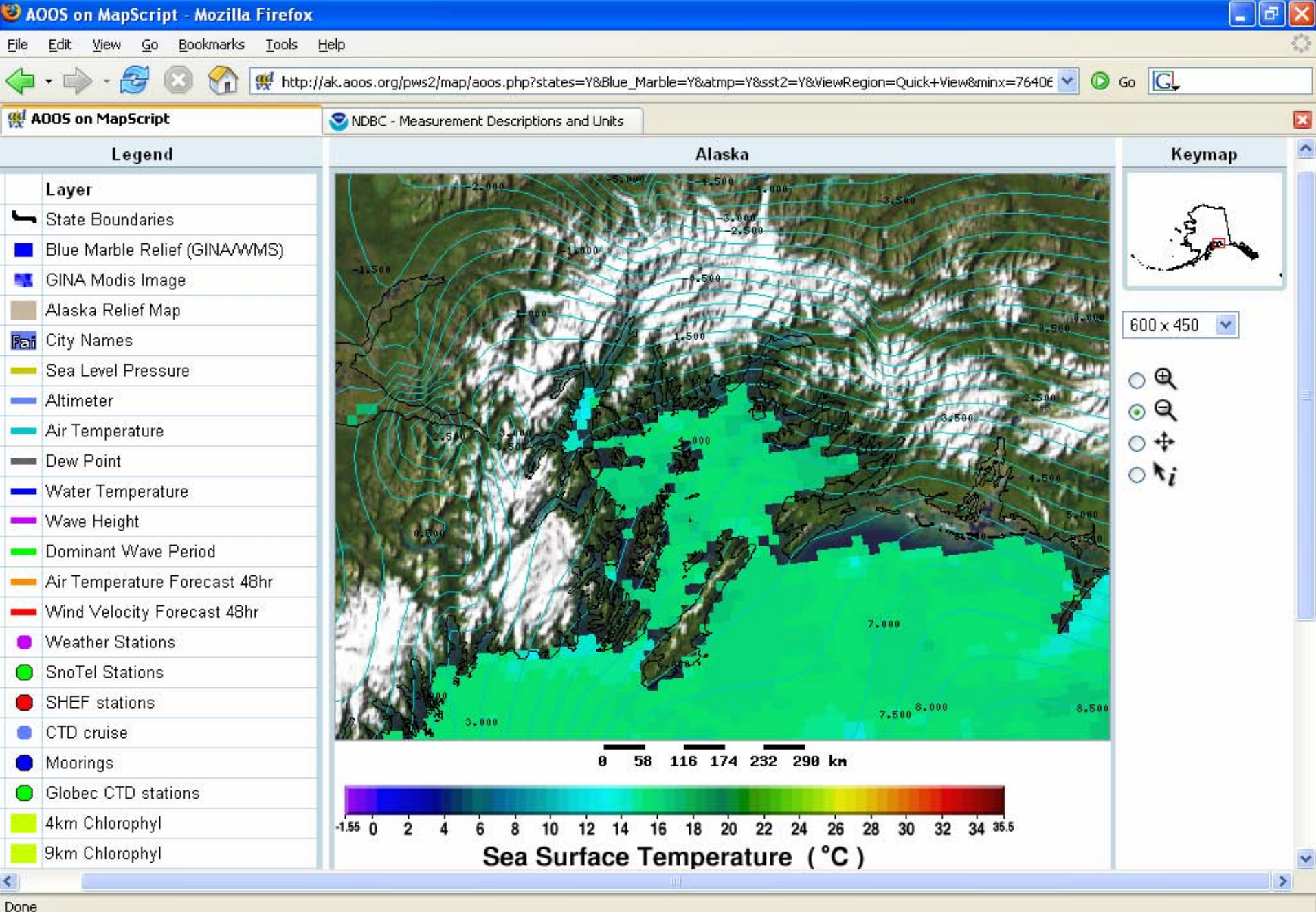
AOOS is One of 11 Regional Associations Currently Undergoing Certification by U.S. Federal IOOS





AOOS Datasets

- Satellite Data
 - QuikScat Level 3 (**JPL/PO.DAAC**)
 - Sea Surface Temperature (**NASA/GSFC/Modis**)
 - Ocean Color Chlorophyll (**NASA/GSFC/Modis**)
 - Modis, bathymetry, topography (**GINA**)
 - Sea Ice Concentration using AMSR-E/Aqua Daily L3 12.5 km (**NSIDC**)
- Model data
 - Daily RAMS forecast for Price William Sound Region
 - Nine international ice models for comparison through **AOMIP**
- Bathymetry (**OSRI/DNR/PWSSC**)
- Historical
 - Prince William Sound Science Center (**PWSSC**)
 - CTD, (moorings soon), and weather station data
 - Institute of Marine Sciences (**IMS**)
 - XBT/STD/CTD
 - Current Meter Moorings
 - Zooplankton, Chlorophyll, Nutrients, other biological



AOOS web GIS application; relief map (GINA); SST (NASA)

Alaska Maps



Data Layers

- ☐ GINA Modis
- ☒ AMSRE Sea Ice Concentration

AMSRE Satellite Data

[Forecast Data](#)

[Forecast: PWS](#)

[Stations](#)

[Misc Data](#)

[Oceanographic Data](#)

[Bathymetry Data](#)

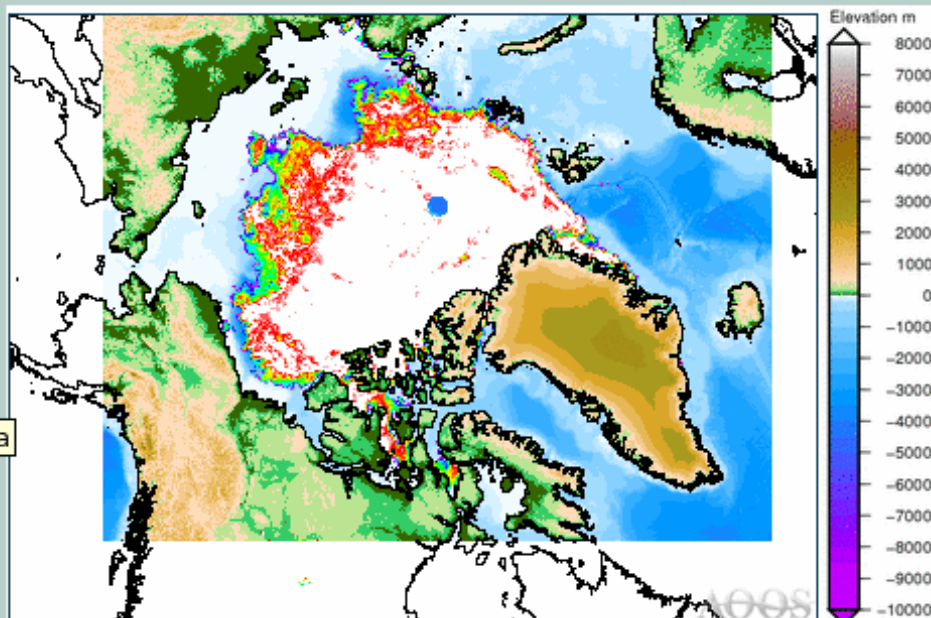
- ☐ GINA Topo/bathy
- ☐ Etopo2 Topo/bathy
- ☒ IBCAO Topo/bathy

Redraw Map

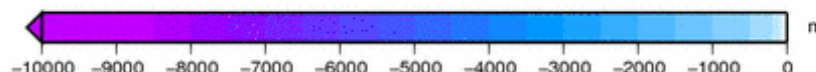


Alaska F

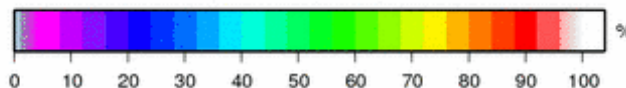
To get information from the map, choose the tool below and click on the station



0 540 1080 1620 2160 2700 km



Bathymetry



Sea Ice Concentration

Map Controls

- Zoom in
- Zoom out
- Recenter
- Information

Map Size

400 x 300

Map Regions

--AOOS Regions--

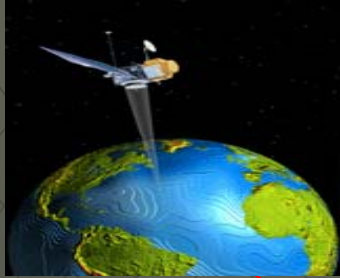
Map Projection

- Alaska
- Polar

Information

PWS Demonstration of an“End to End” System

Sea Surface Conditions Meteorology



PWS Weather



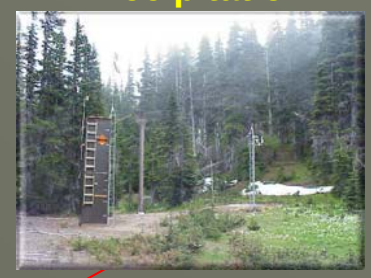
Oceanography Water Quality



Currents



Precipitation



Data Assimilation

PWS ROMS

Model Data

Real time data
Retrieval &
Processing

3D Model
Assimilation

Application
Server

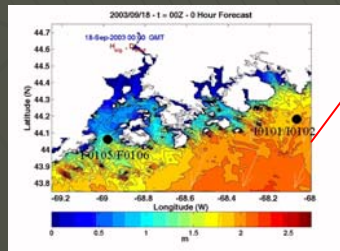
Research
Server

Feedback

Field Validation
Experiments



PWS Waves



Education



Economic models



Fishery management



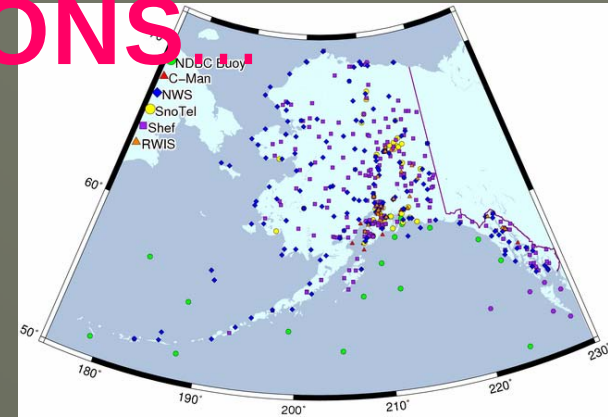
Communities



UNITING EXISTING RESOURCES IN REAL TIME OBSERVATIONS

National Data Buoy Center (NDBC)

- Coastal-Marine Automated Network (C-MAN)
- CODAR (SFOS/IMS/SALMON)
- Buoy drifters, Voluntary Observing Ship (VOS)
- Alaska Snow, Water and Climate Services (AMBCS/SnoTel)
- National Water Level Observation Network (NWLON)
 - National Ocean Service (NOS)
 - Center for Operational Oceanographic Products and Services (CO-OPS)
- Hydrometeorological Automated Data System (HADS)
 - U.S. Geologic Survey – Water Resources Division (USGS)
 - Remote Automated Weather Stations (RAWS)
- Roadway Weather Information System (AKDOT)
- Webcams (AMBCS/SnoTel/FAA/RWIS)...others



... AOOS

The background features a dark gray spiral on the left side, which transitions into a grid of concentric circles and radial lines on the right side. The text is overlaid on this graphic.

Please see the poster

Alaska Ocean Observing System
1007 W. 3rd Avenue, Suite 100
Anchorage, Alaska

www.aoot.org