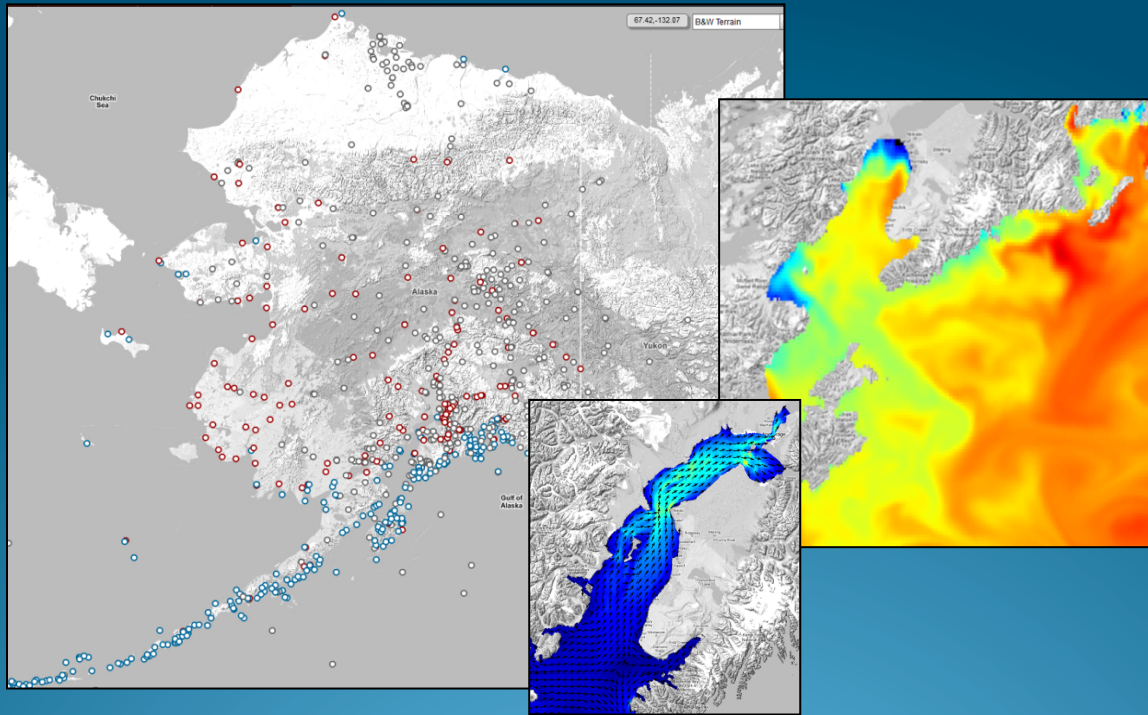


Alaska Ocean Observing System

Access to Real-time Data & Forecasts



Darcy Dugan
May 19, 2012

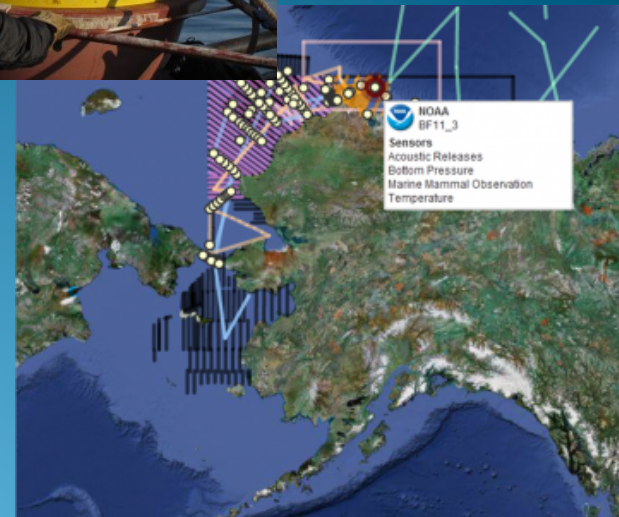
Who is AOOS?

AOOS Mission

Easy access to physical, chemical, and biological data

Network of ocean and coastal observations

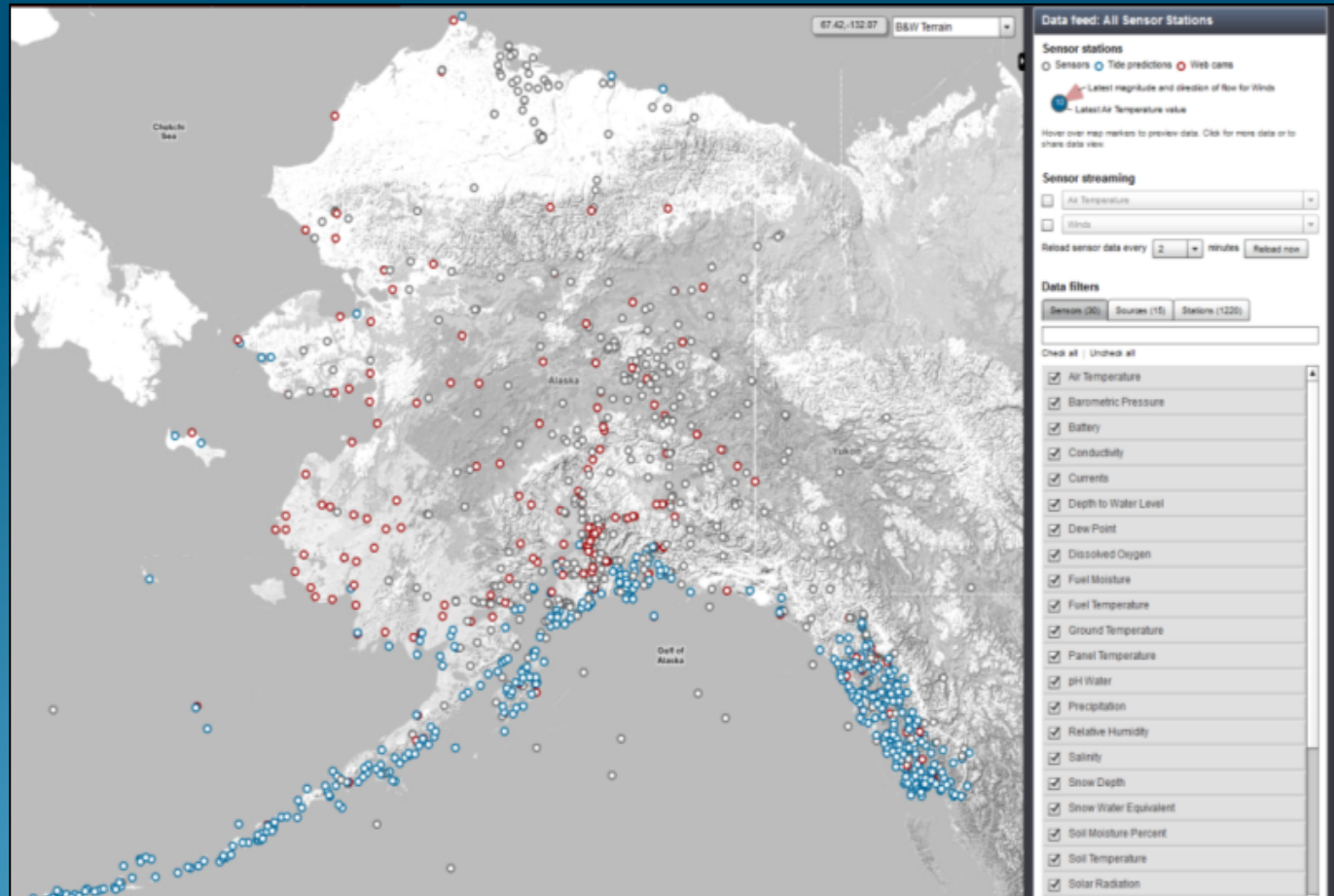
Information products and tools for informed decision-making



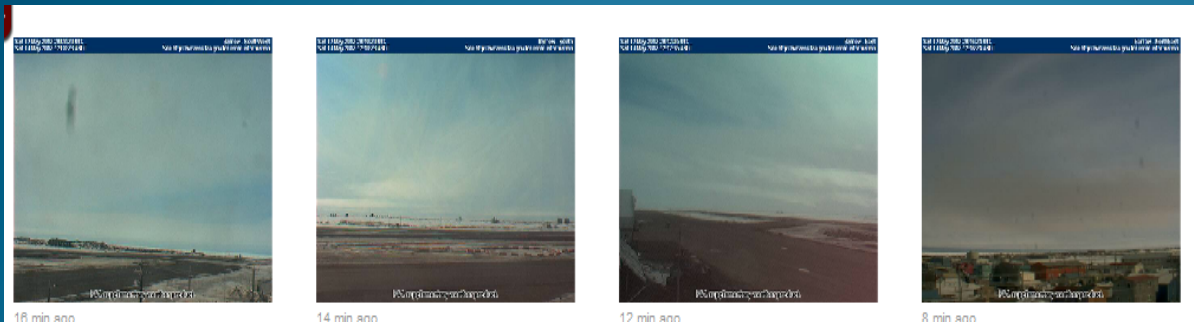
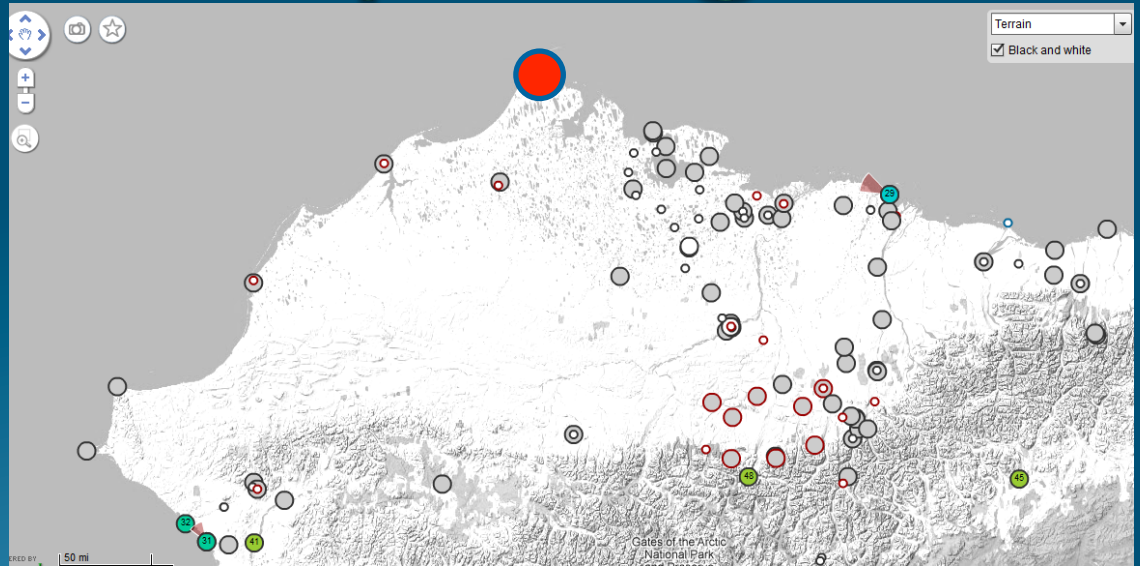
Real-Time Sensor Map

Over 3,000 sensors statewide.....

Air temp
 Air Pressure
 Currents
 Water level
 Ground temp
 Precipitation
 Humidity
 Salinity
 Snow depth
 Stream flow
 Stream height
 Tides
 Water temp
 Web cams
 Weather
 Wind
 More....

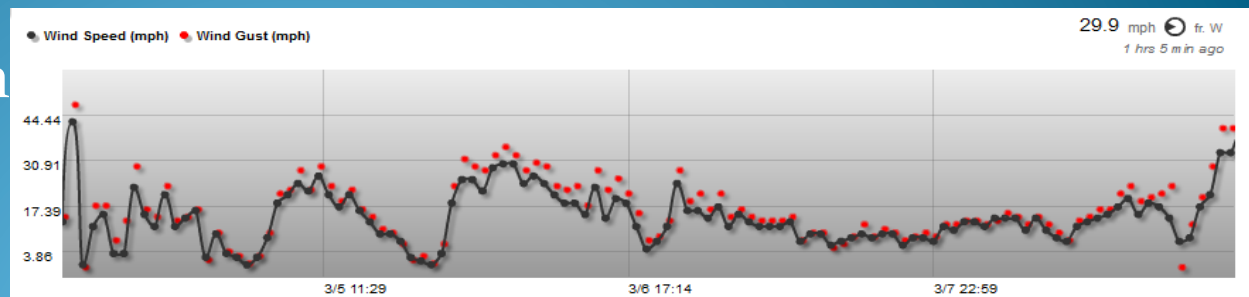


North Slope Region



Wind speed

Barrow webcam from
12:30pm today



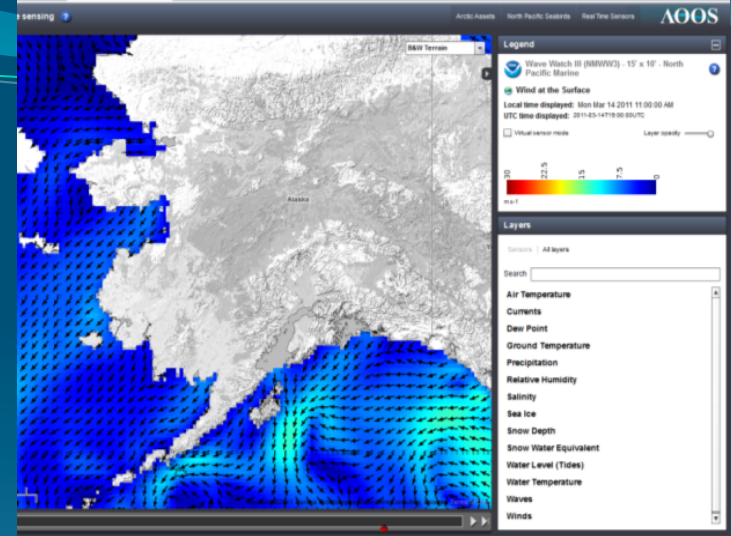
Forecast Models















Model Explorer

Useful Parameters

- Air Temp
- Currents
- Dew point
- Ground Temp
- Precipitation
- Relative Humidity
- Salinity
- Sea Ice
- Snow Depth
- Snow Water Equivalent
- Water Level (tides)
- Water Temperature
- Waves
- Wind

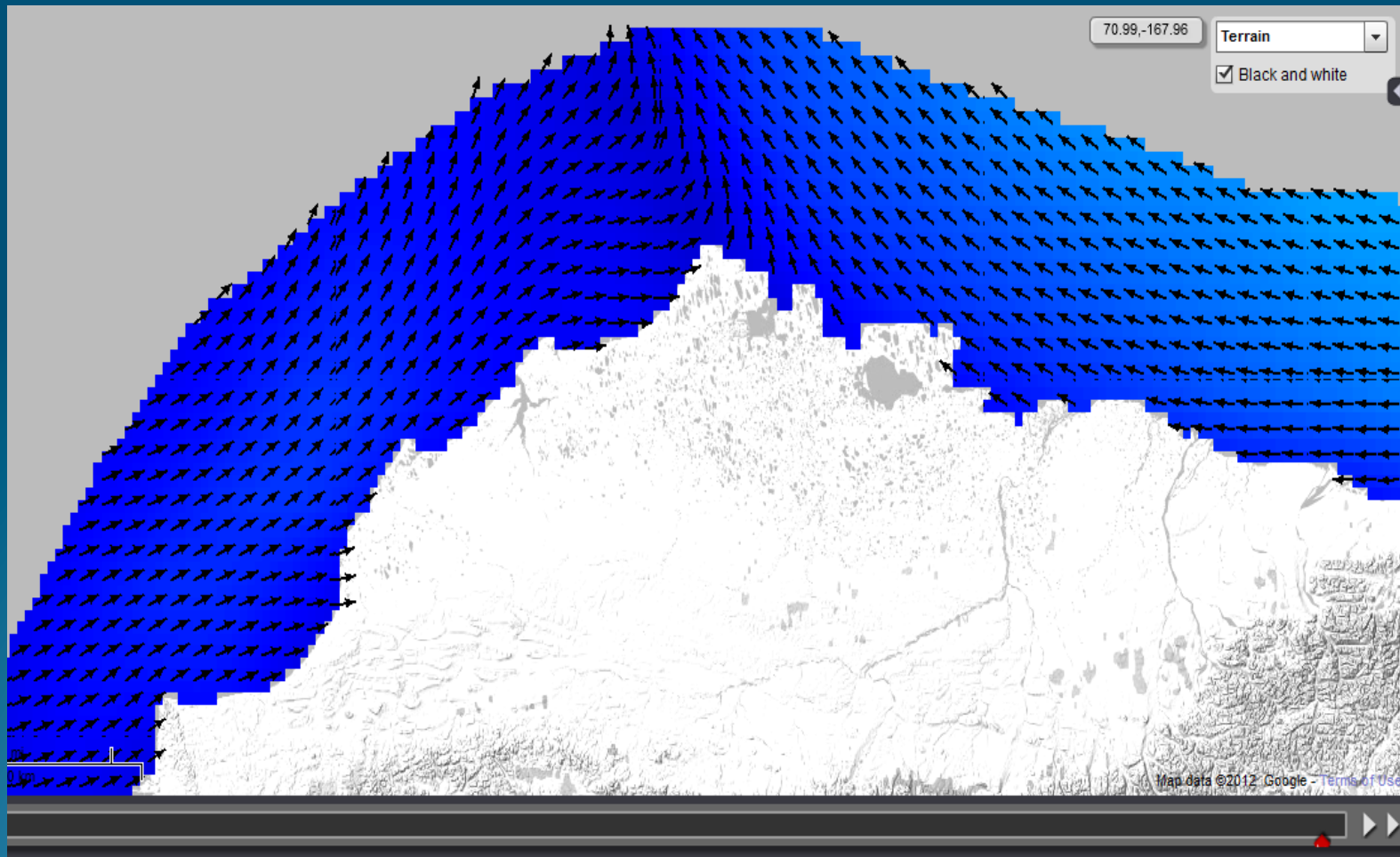


- Winds** ✕

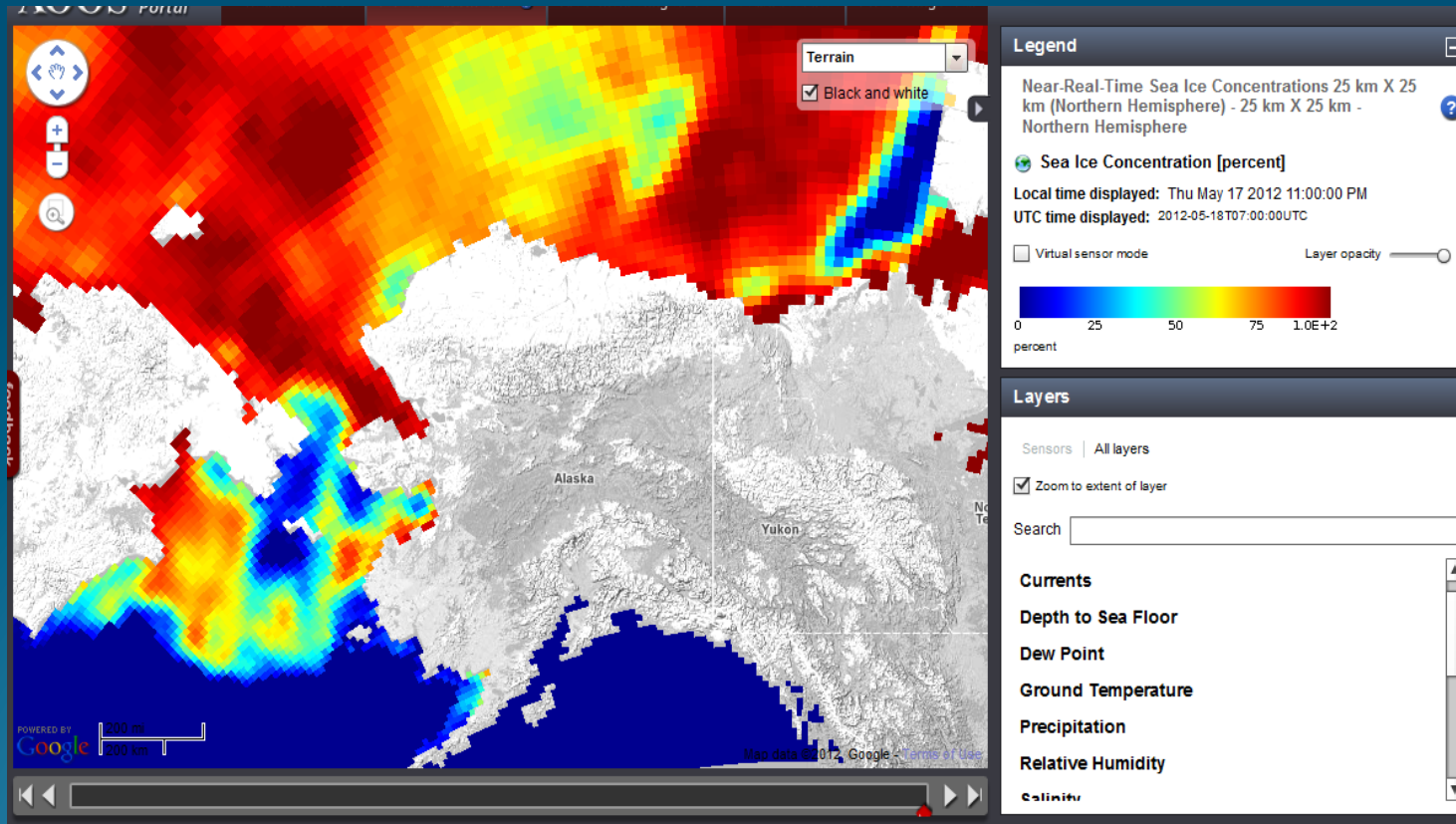
 -  NDFD Aggregate Model - 6 km² - North Pacific Marine ?
 -  Wind at Surface
 -  North American Mesoscale Weather Research and Forecasting (NAM-WRF) - 12 km² - South Central Alaska ?
 -  Wind at 10 Meters
 -  Wave Watch III (NMWW3) - 8' x 4' - North Pacific Marine ?
 -  Wind at the Surface
 -  NDFD Wind Speed Gust - 6 km² - North Pacific Marine ?
 -  Wind Speed Gust at Surface
 -  Weather Research and Forecasting (WRF) - 4 km² - Prince William Sound and Cook Inlet ?
 -  Wind at 10 Meters
 -  Wave Watch III (NMWW3) - 15' x 10' - North Pacific Marine ?
 -  Wind at the Surface



Wind Forecast



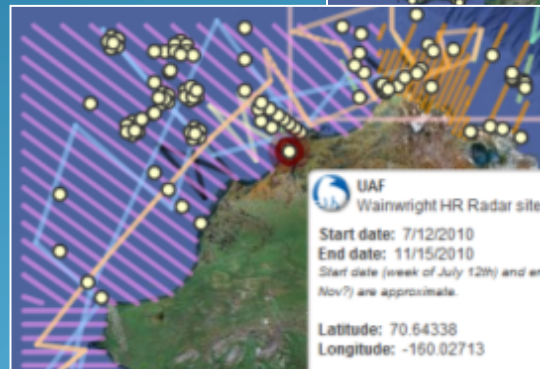
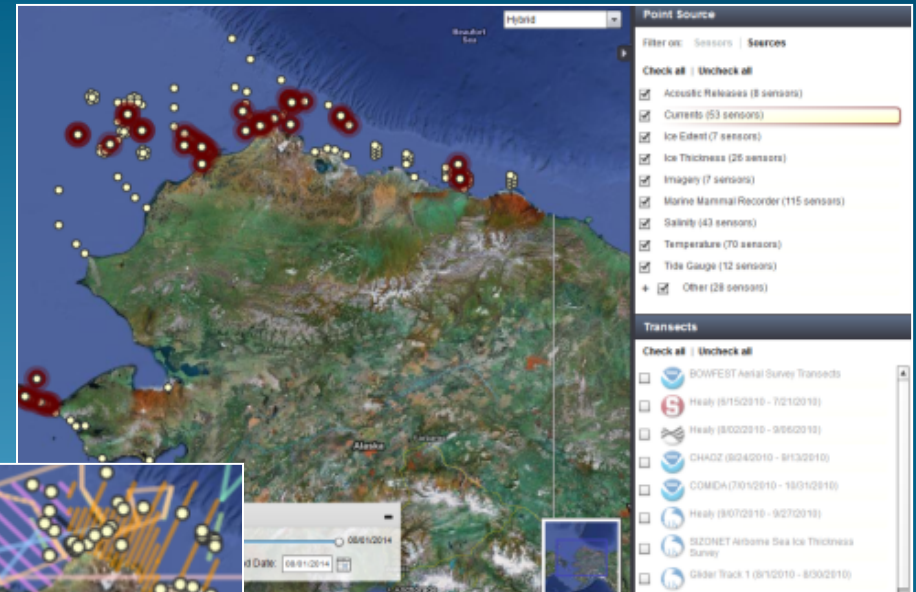
Sea Ice thickness and extent



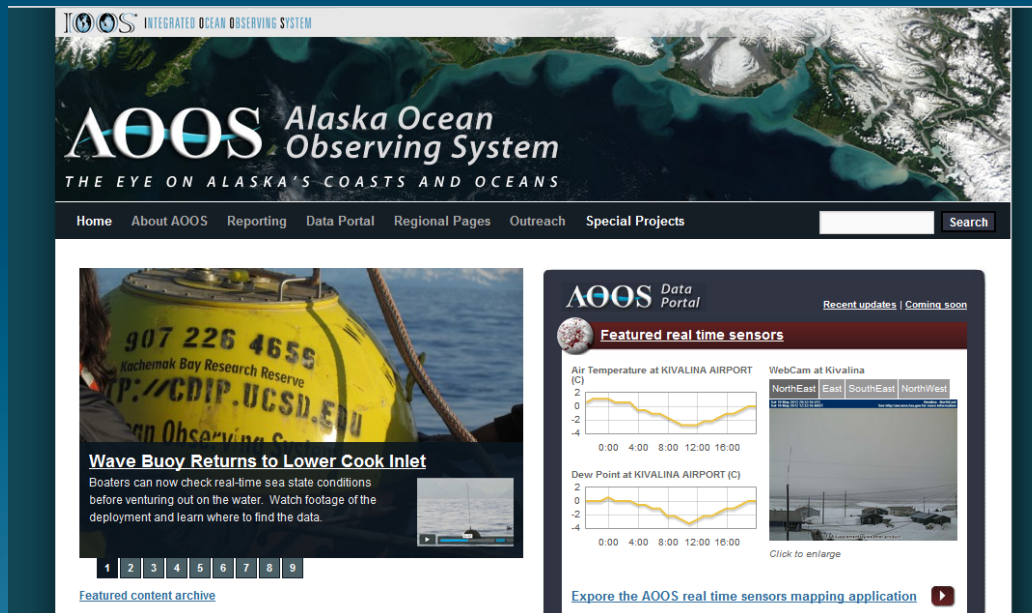
Can view daily back to 1978

Arctic Research Assets Map

- Shows where the instruments are!
- Improve collaboration
- Reduce duplication
- Avoid running over expensive instrumentation



Thanks



Please check out the map in real-time during the break!

www.aoots.org