Alaska Harbor Observation Network (AHON) Seward Prototype

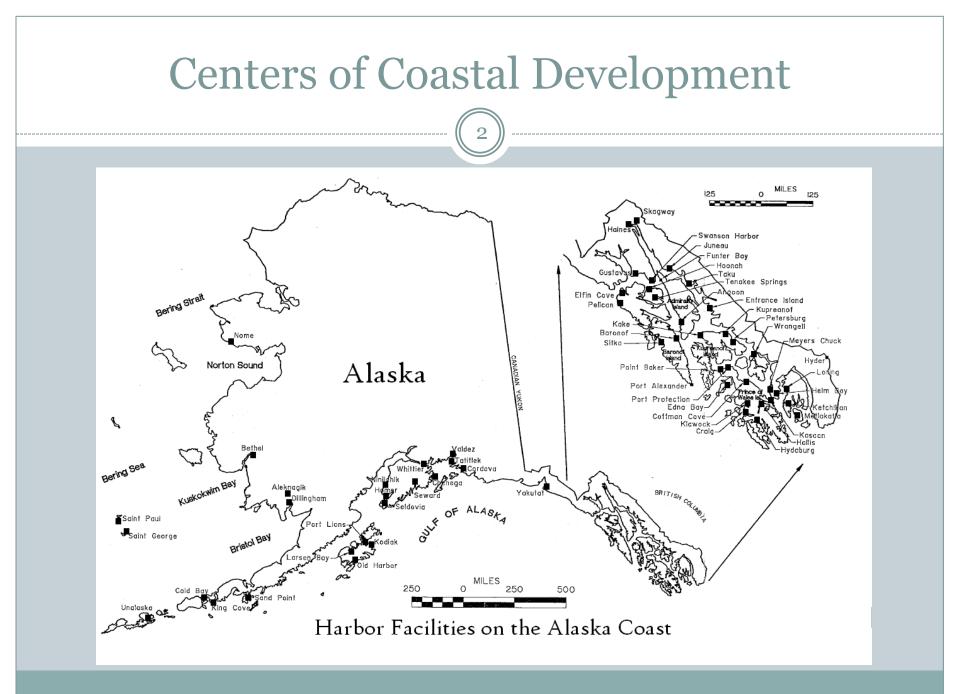
#### ORSON P. SMITH, PE, PH.D.

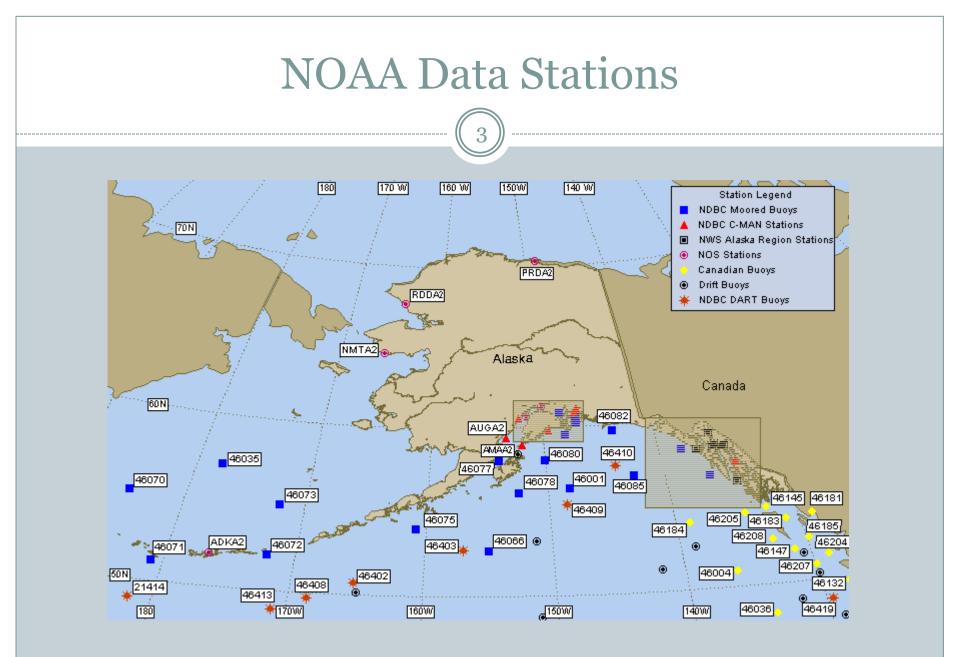
UNIVERSITY of ALASKA ANCHORAGE





#### **HOWARD FERREN** Alaska SeaLife Center





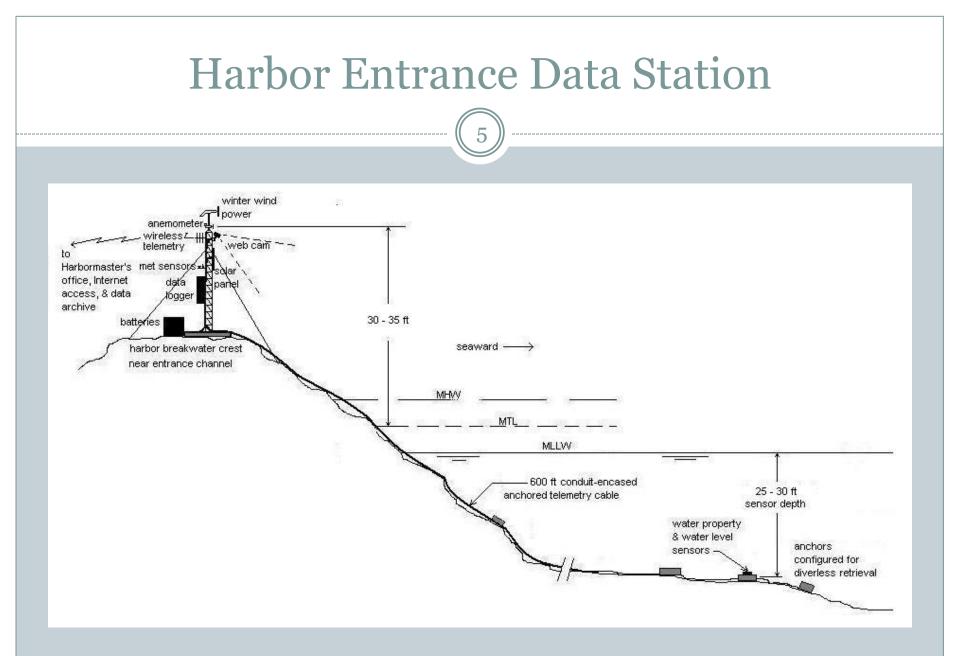
## **AHON Objectives**

 Reporting and Forecasting Coastal Marine Conditions

Monitoring Impacts of Climate Change

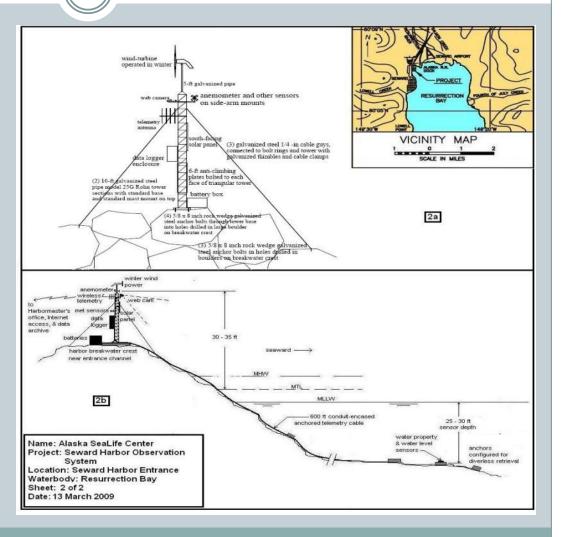
Domain awareness for security and disaster response

Data for Coastal Infrastructure Design



# Permits, Permissions, and Coordination

- Corps of Engineers
- ADNR Coastal Management
- City building permit
- Power and internet permissions at Harbor Office
- Coordinate with NOAA and USCG





# Seward Prototype 8

# Components

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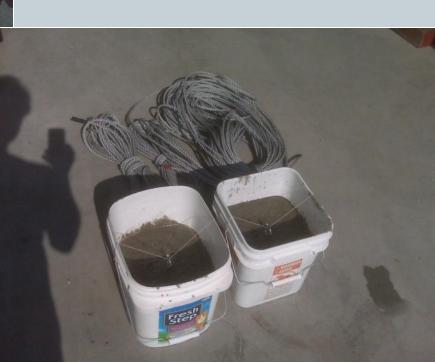


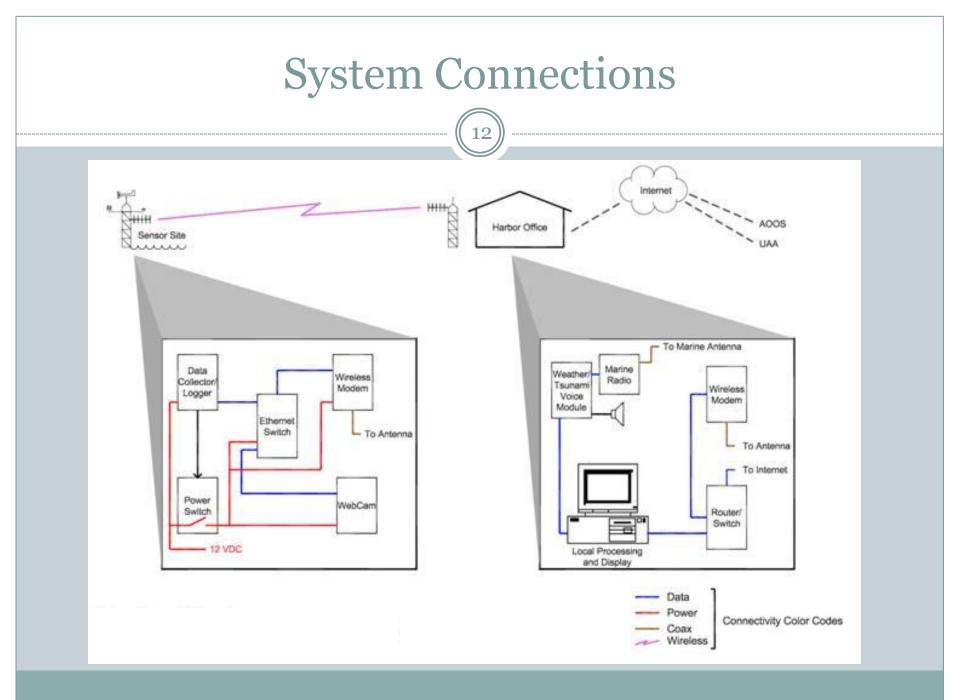
# **Control Box on Tower**

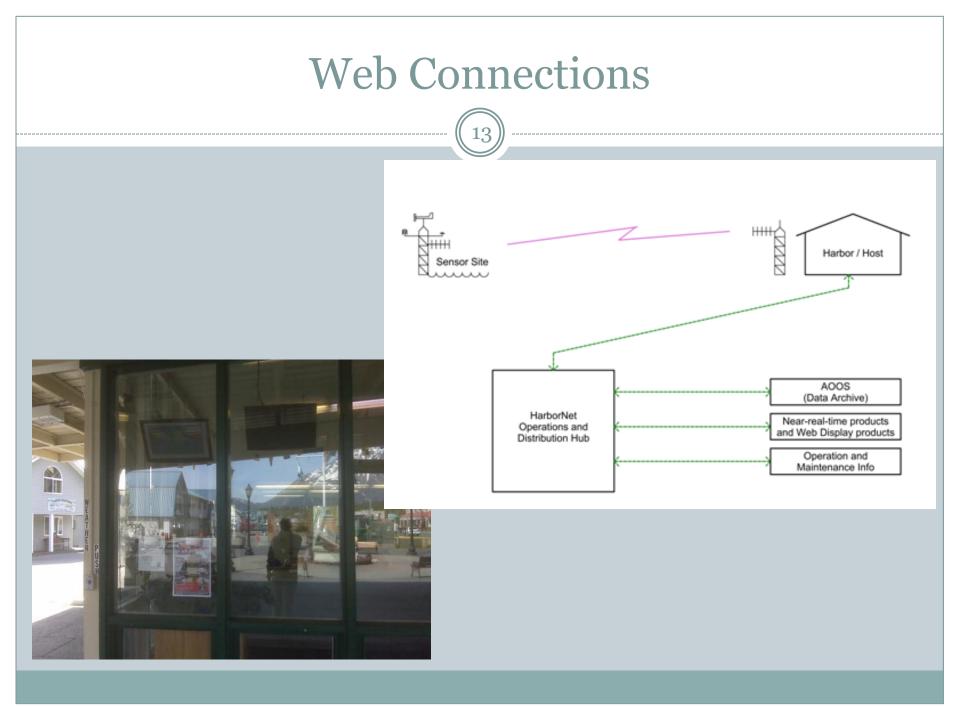


### Pressure sensor anchors



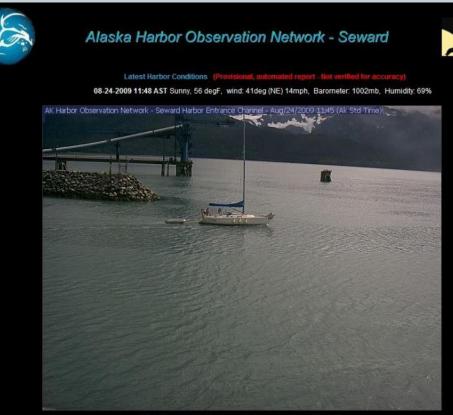






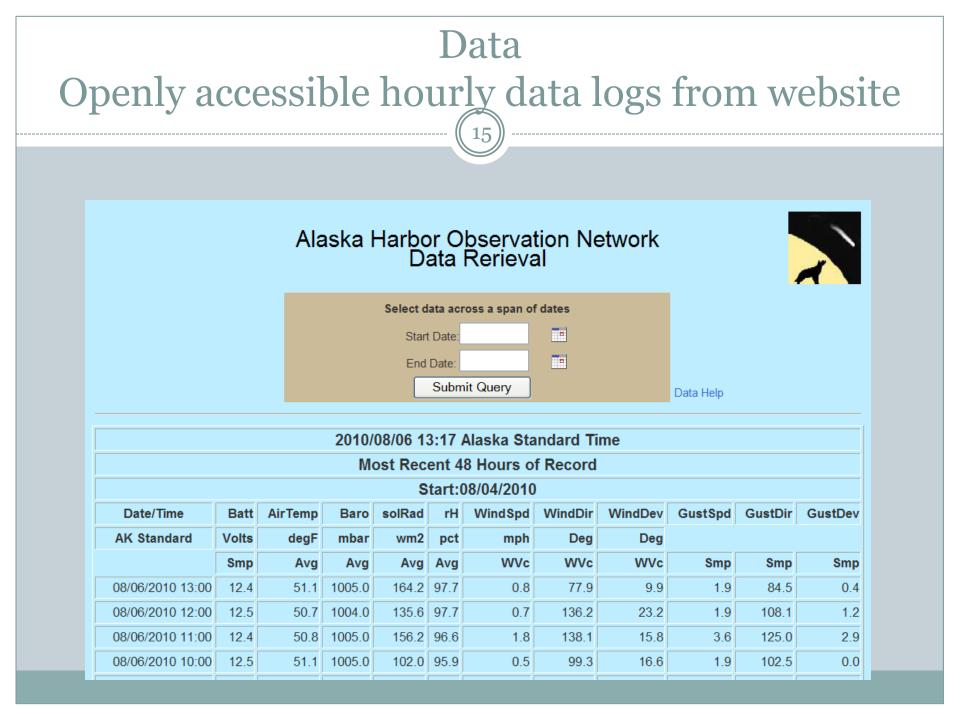
# http://akharborobs.net/Seward/

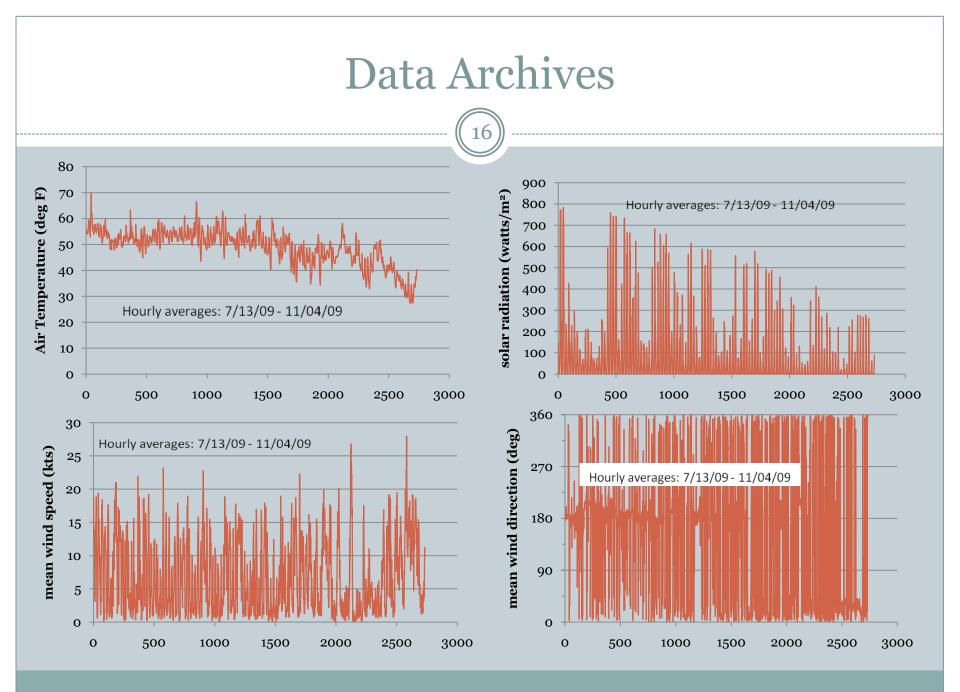
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Most Recent Image. - Seward Harbor - Entrance Channel

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# Alaska Harbor Observation Network

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- Administered by Alaska SeaLife Center
  - In partnership with UAA School of Engineering
- Managed by AOOS
- Oversight will be by proposed Alaska Harbor Observation Network Advisory Council (?)
  - NOAA: NWS, NDBC...
  - o Alaska Harbormasters
  - Alaska Department of Natural Resources (Coastal Management Program)
  - Alaska Department of Transportation and Public Facilities
  - o US Army Corps of Engineers