

# NSF Arctic Science Objectives

Understand the arctic on a regional scale and its relationship to the global system during a period of rapid environmental change



- Advance Arctic understanding through:
  - hypothesis testing
  - discovery
  - synthesis and observation
- Cyberinfrastructure in support of Arctic Science
- Modeling in support of Arctic Science
- Develop new technologies for Arctic research
- Build capacity through education
- Serve societal needs (Broader Impacts)



# NSF Arctic Observations



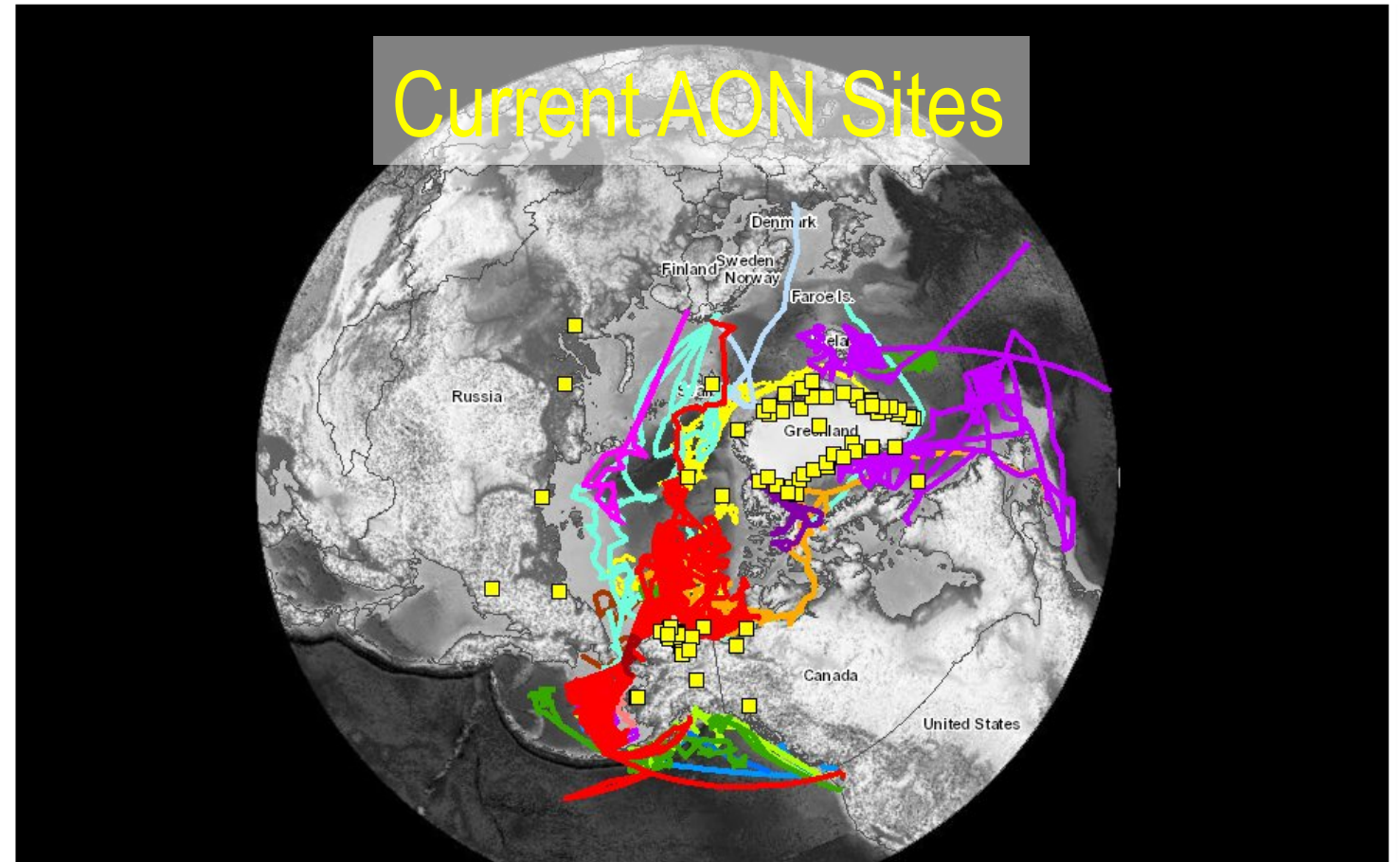
- Broad (examples)
  - Indigenous Community Observations
  - Atmospheric chemistry
  - Permafrost
  - Physical & Biological Oceanography
- Proposal driven program – vision is elusive
- Observations not organized as a network
- Balance NSF and AON mission-Flexibility



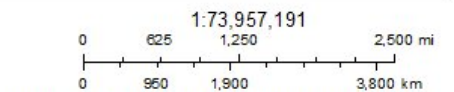
# NSF's Arctic Observing Network

- Address emerging questions
- Support new technology
- Support observing infrastructure
- Collaboration with mission agencies

Map of Data Collection Sites from AOV



November 10, 2015



Amante, C. and B. W. Eakins, ETOPO1 1-Arc-4-Minute Global Relief Model: Procedures, Data Sources and Analysis, NOAA Technical Memorandum

Arctic Observing Viewer  
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