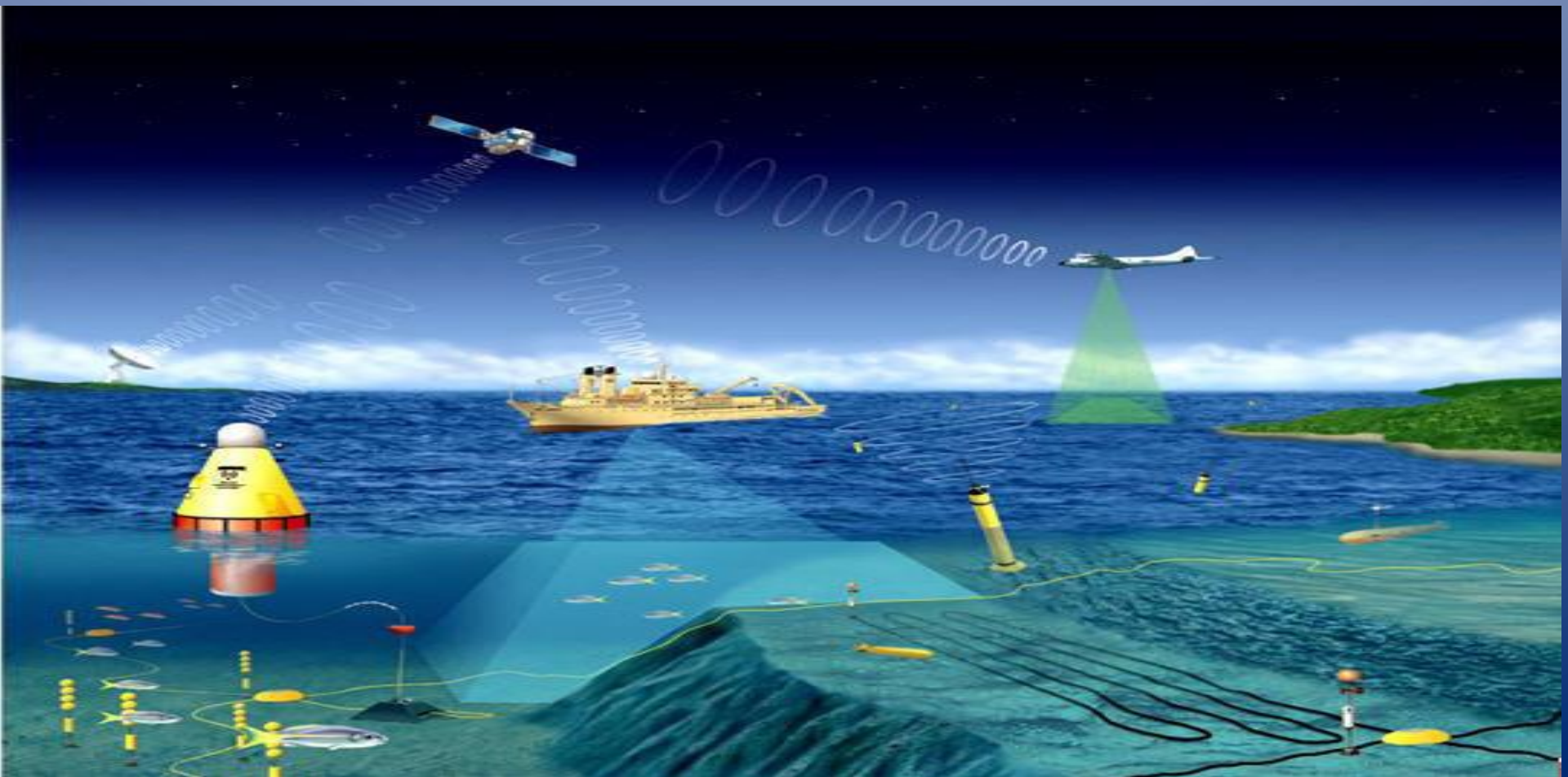
Subcommittee on Unmanned Systems (SUS)

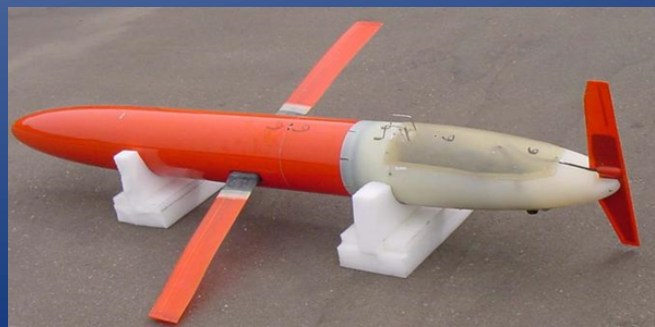
Brian Midson

April 14-15, 2015 SCOAR Meeting



Federal Context

- National Science and Technology Council
  - Committee on Environment, Natural Resources, and Sustainability
    - Subcommittee on Ocean Science and Technology
      - Interagency Working Group on Infrastructure and Facilities
        - » Subcommittee on Unmanned Systems
          - Brian Midson (NSF)
          - Phil Hall (NOAA)
          - Dan Eleutario (ONR)



Charge and Scope

- The purpose of SUS is to advise, assist, and make recommendations to IWG-FI on policies, procedures, and plans relating to unmanned systems uses, upgrades, and investments.
- SUS will:
  - Coordinate across SOST agencies to ensure effective interfaces and consolidate joint mission requirements
  - Collaborate with other SOST working groups.

Scope: AUV, UAS, and USV

Out of Scope

Status Issues and Recommendations

Framework Document for SUS

- Offer guidance on developing Inter-Agency Agreements between Federal agencies
- Communicate the availability of Federal unmanned systems
- Identify common capabilities, metadata standards, data models and architectures.

Vision of the National Ocean Policy:

"To achieve an America whose stewardship ensures that the ocean, our coasts, and the Great Lakes are healthy and resilient, safe and productive, and understood and treasured so as to promote the well-being, prosperity, and security of present and future

generations."

-Executive Order 13547

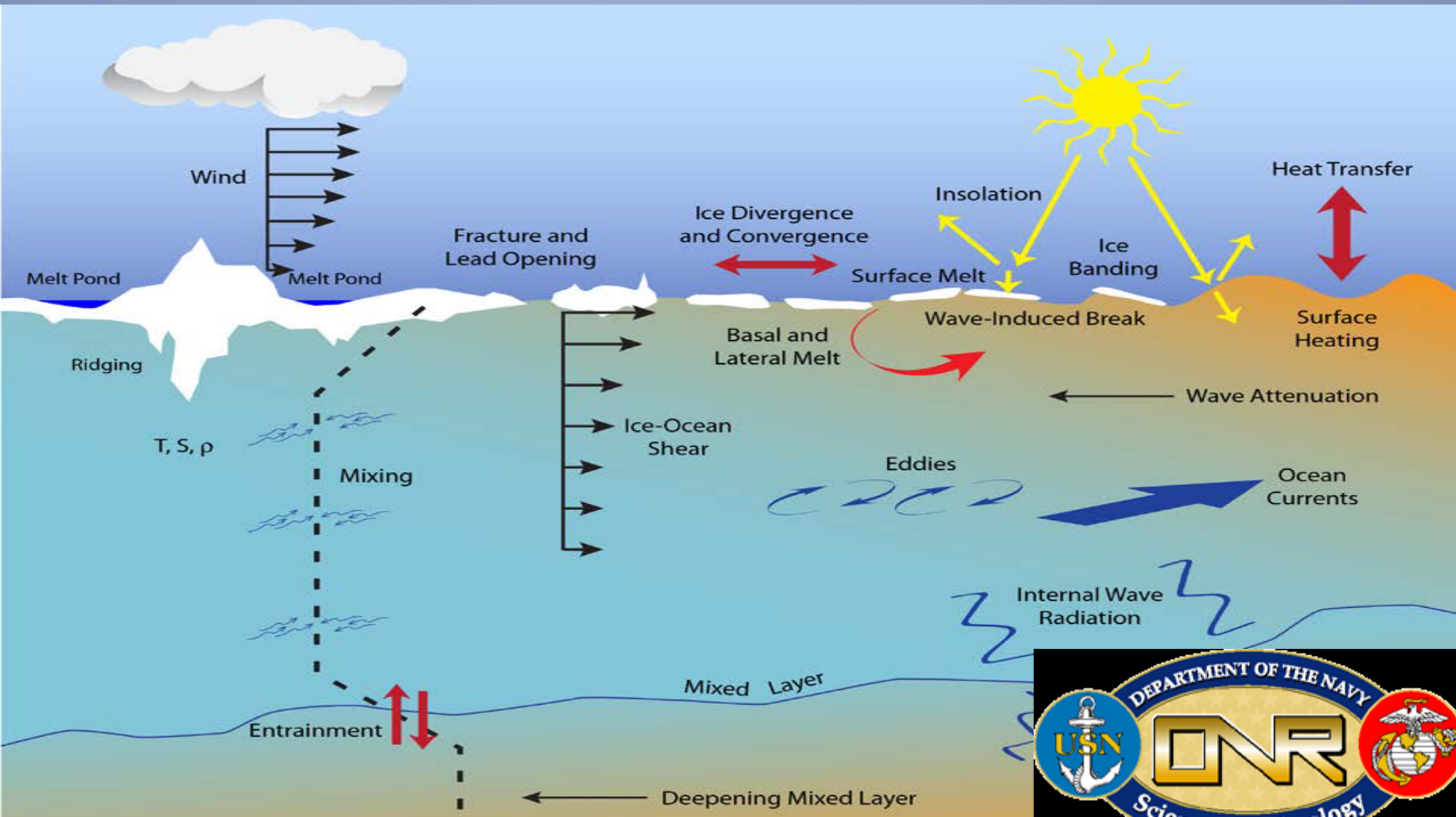
THE NATIONAL OCEAN POLICY'S NINE PRIORITY OBJECTIVES

- **Ecosystem-Based Management:**
- **Inform Decisions and Improve Understanding**
- **Observations, Mapping, and Infrastructure:**
- **Coordinate and Support:**
- **Regional Ecosystem Protection and Restoration:**
- **Resiliency and Adaptation to Climate Change and Ocean Acidification:**
- **Water Quality and Su stainable Practices on Land: Changing Conditions in the Arctic:**
- **Coastal and Marine Spatial Planning:**United States.
- **Coastal and Marine Spatial Planning:**

Example Actions

- Complete an analysis and selection of performance measurements for unmanned and satellite remote sensing system utilization.
- Demonstrate capability for coordinated unmanned and satellite remote sensor sampling in a specific region of environmental interest as a step toward a fully operational capability.

Autonomous Study of the Marginal Ice Zone



Feel free to contact me for any SUS information

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