

Satellite Data Training Course

Dr. Megan McKinzie ATN Data Coordinator



October 25, 2024





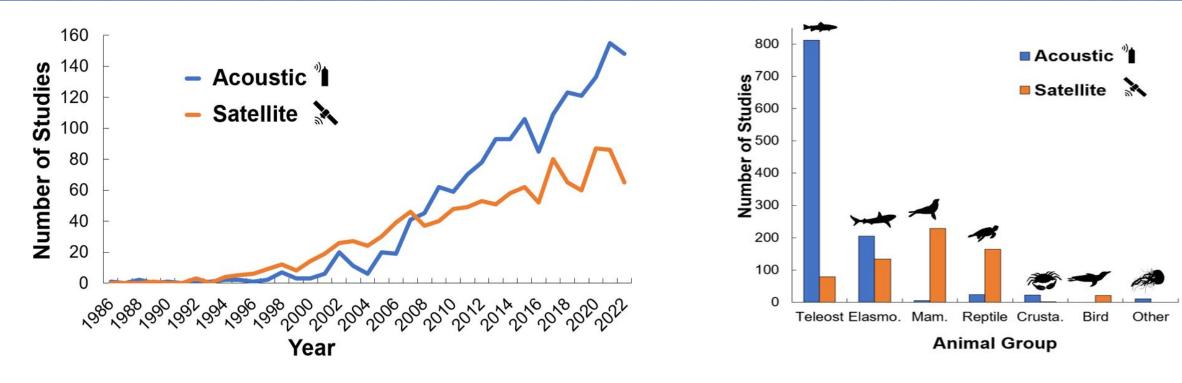




ATN Background



ATN Background



Kessel et al. (in prep), modified from Hussey et al. (2015) Science

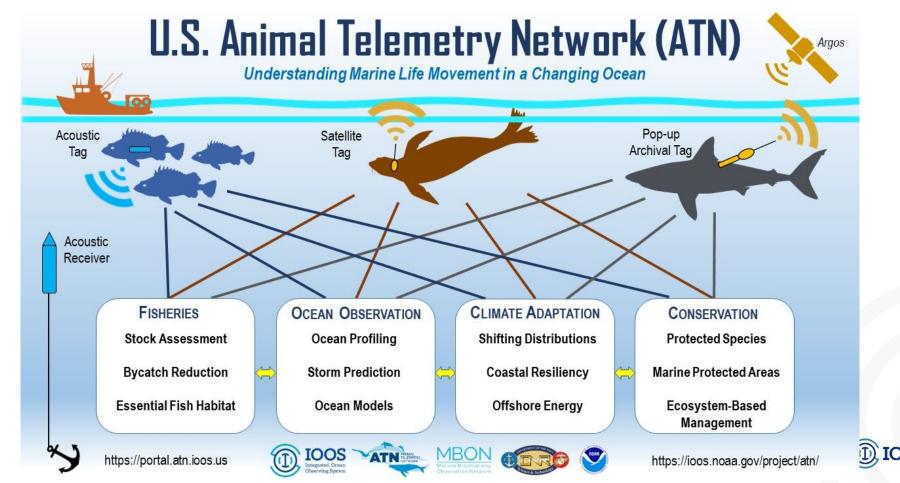
- Telemetry is a tool, but an extremely powerful and adaptable tool for marine life observation
- The use of telemetry is expanding rapidly worldwide
- The need for data management, products, and delivery is growing commensurately



Animal Telemetry Network (ATN)



- ATN was established with these needs in mind
- Serving the missions of multiple agencies and the broader scientific community



Provide Unity, Stability and Continuity to the U.S. Marine Animal **Telemetry Network and Promote its** Integration into the Nation's Ocean **Observing System Capabilities**











Unified Marine Life Program - "Microbes to Whales"

Hotspots

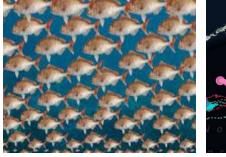








Abundance



Movement



The IOOS Marine Life Program Goal: Implement long-term, sustained marine life observation and data sharing capability that builds on and expands the infrastructure, momentum and successes of existing IOOS biological observing programs, including MBON, ATN, and efforts of IOOS partners and Regional Associations.













U.S. IOOS: Program Overview

IOOS Mission: To produce, integrate, and communicate high quality ocean, coastal and Great Lakes data that meets the safety, economic, and stewardship needs of the Nation

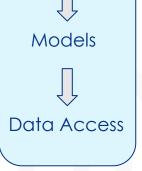


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Thousands of observing data sets gathered every day by public and private programs

Integrated, made accessible, & supported U.S. IOOS

Supporting
weather
forecasting,
maritime safety,
and public health



U.S. IOOS: Program Overview

Global Component

- US contribution to Global Ocean Observing System (GOOS)
- 1 of 15 Regional Alliances of GOOS



National Component

17 Federal agencies



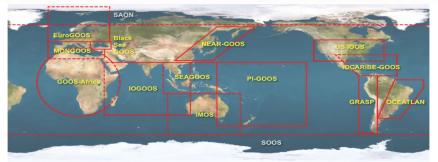
Regional Component

- 11 Regional Associations
 - Stakeholder driven
 - Academia, state/local/tribal government, private industry

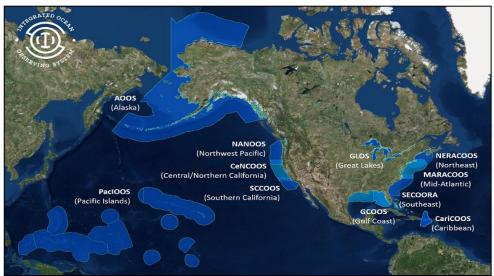








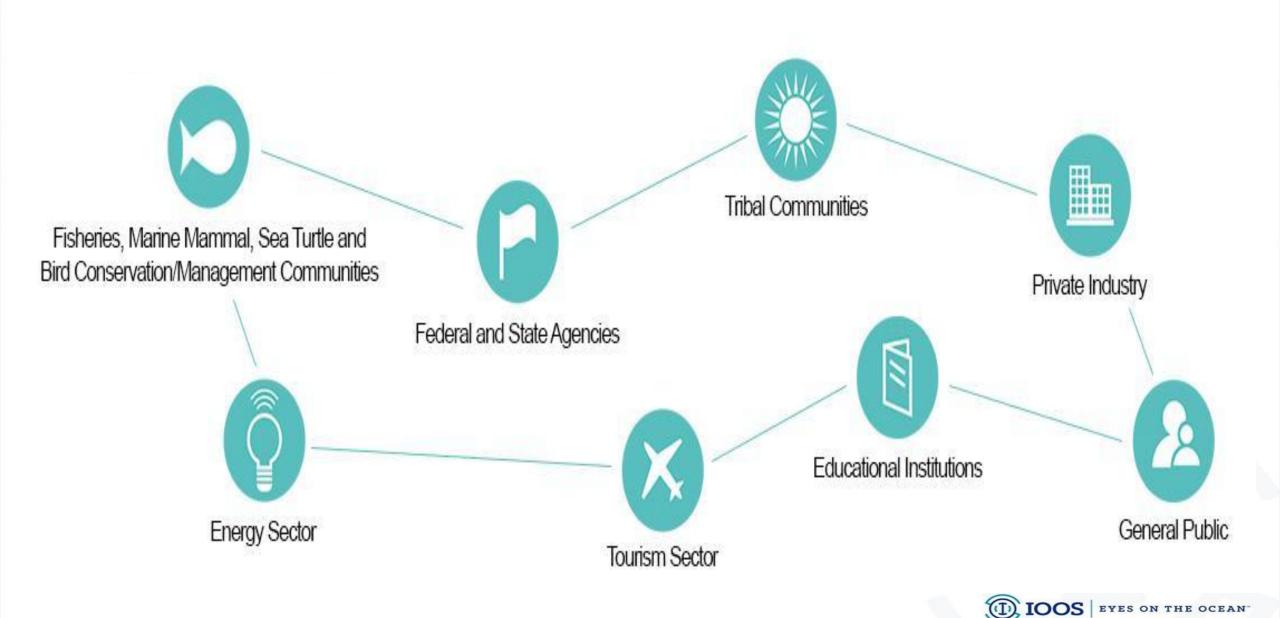




Partnership effort that leverages dispersed national investments to deliver ocean, coastal and Great Lakes data relevant to decision-makers.

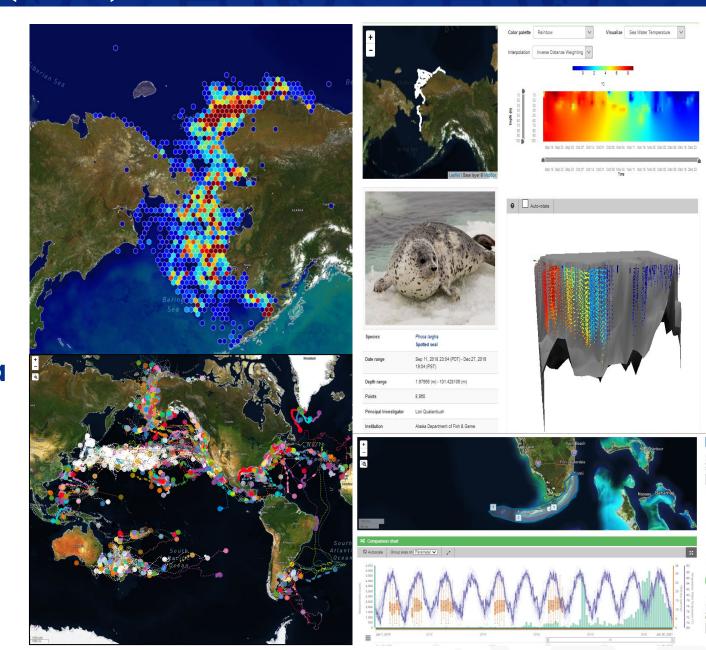


Marine Life Stakeholders

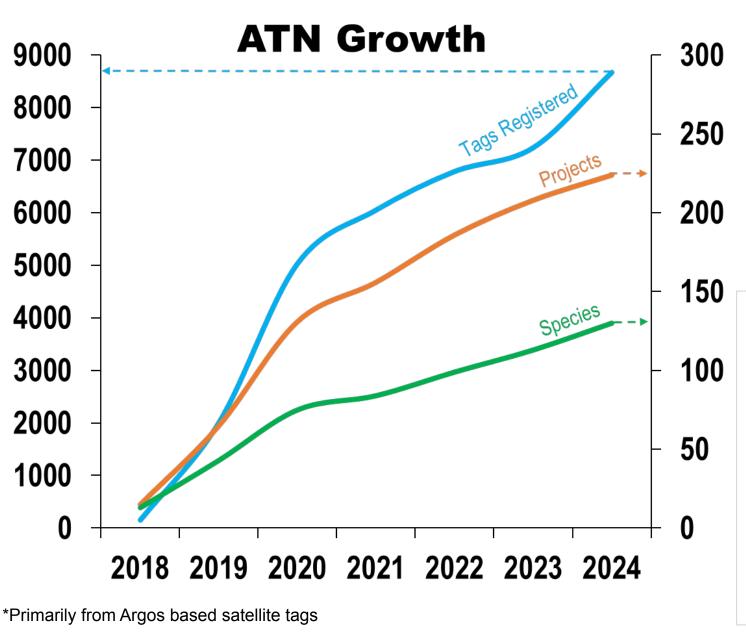


ATN Data Assembly Center (DAC)

- Community resource
- Receives data from multiple sources/tag types
- Enables/promotes data availability and sharing among community partners
- Maximizes access to telemetry data
- Enhances and expands electronic tag data products
- Enables permanent archiving at NCEI, DataONE; DOI minting

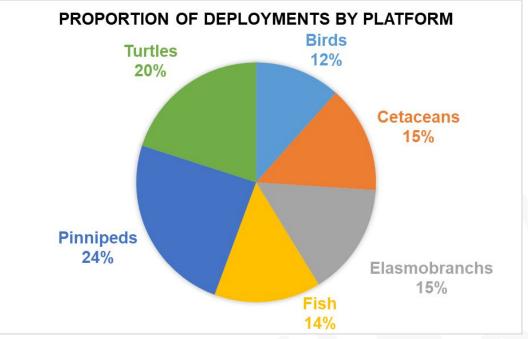


ATN DAC Contributing Members

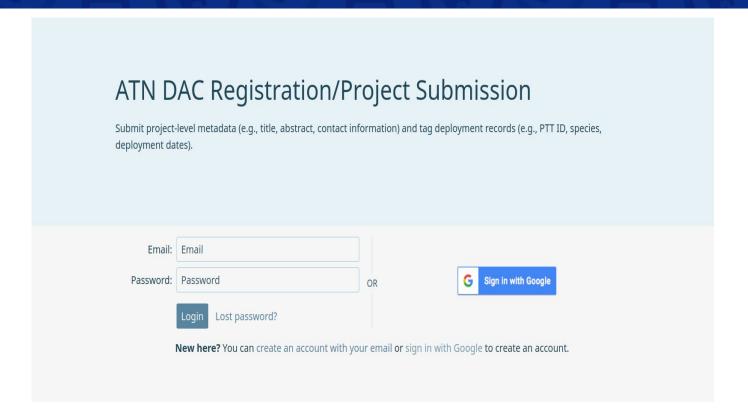


REGISTERED IN DAC*

- Projects = 227
- PIs = 106
- Organizations = 77
- Species = 132
- Deployments = 8876



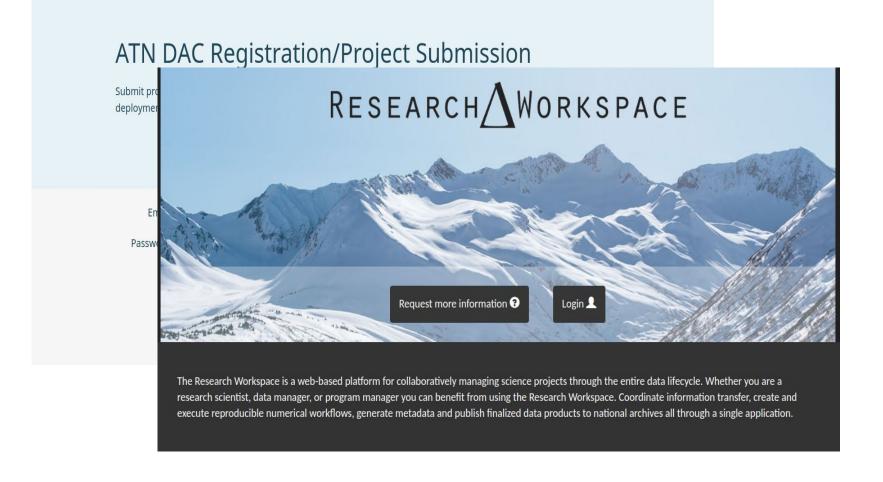
ATN DAC Platforms







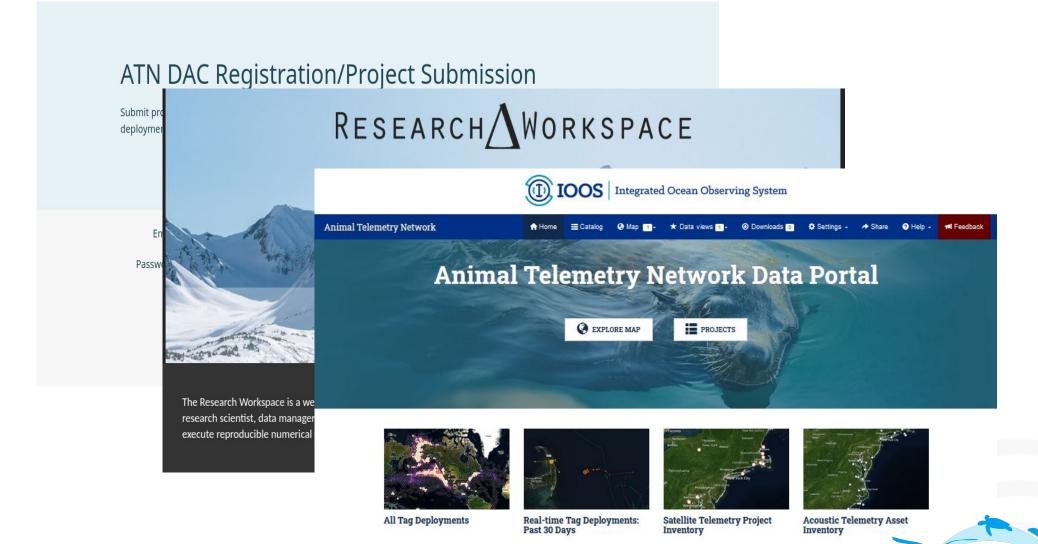
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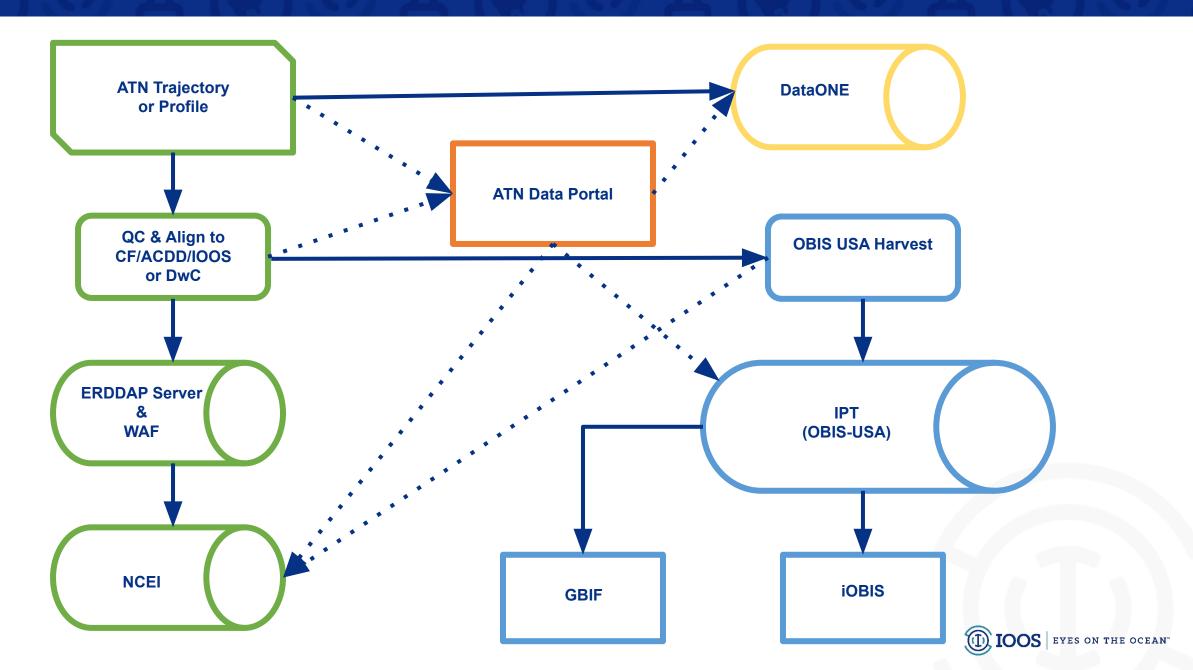
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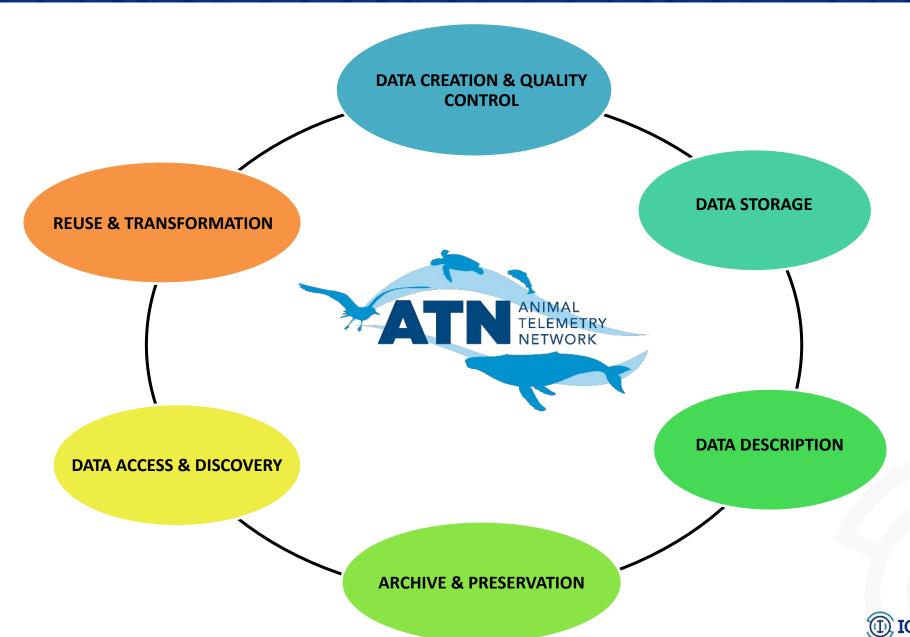


ATN Registration App – https://dacregistration.atn.ioos.us
Research Workspace – https://researchworkspace.com
ATN Data Portal – https://portal.atn.ioos.us

Archival Services



ATN Data Assembly Center (DAC)



Have Questions, Get in Touch...

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ATN Seal of Approval



