2025 CoastWatch & ATN Training

Aug 14 & 15, 2025 Virtual 10am - 1pm (Pacific Time)

Resources

- Coastwatch Tutorials (on GitHub)
- Coastwatch Lecture series
- Animal telemetry Network

Schedule

Thursday, August 14, 2025

Time (PST)	Topic	Presenter
10:00 - 10:15	Training Overview - CoastWatch, ATN and the workshop component	Cara Wilson
10:15 - 11:30	Coastwatch satellite datasets and data portals	Cara Wilson
11:30 - 11:45	Break	
11:45 - 12:15	Using the ERDDAP data server	Cara Wilson
12:15 - 12:45	Accessing ERDDAP using scripts (R, python)	Cara Wilson
12:45 - 1:00	Day 1 wrap-up	

Friday, August 15, 2025

Time (PST)	Торіс	Presenter
10:00 - 10:30	Intro to ATN and the DAC	Megan McKinzie
10:30 - 11:00	Demo of ATN data portal	Megan McKinzie
11:00 - 11:30	Accessing public ATN datasets	Megan McKinzie
11:30 - 11:45	Break	
11:45 - 12:00	Workshop, part 1: Linking CoastWatch and ATN data using <u>scripts</u>	Daisy Shi
12:00 - 12:45	Workshop, part 2: Hand's on time	
12:45 - 13:00	Wrap up and final discussion	All



Questions? Coastwatch.info@noaa.gov

Learning Portal has links to recorded lectures and tutorials

Subscribe to our newsletter for announcements for satellite classes:

subscribe





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We will be using Slido to interact with participants:

Go to www.slido.com

#ATN2025





Satellite Data Training Course





August 15, 2025





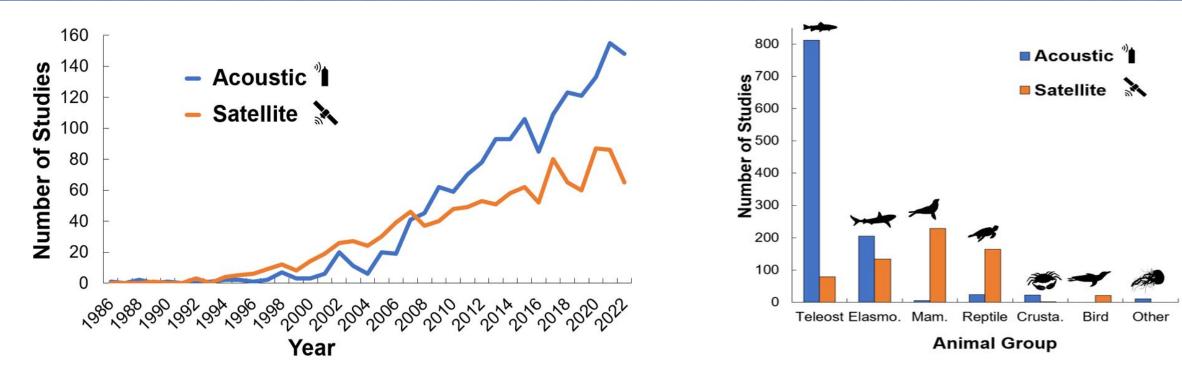




ATN Background



ATN Background



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

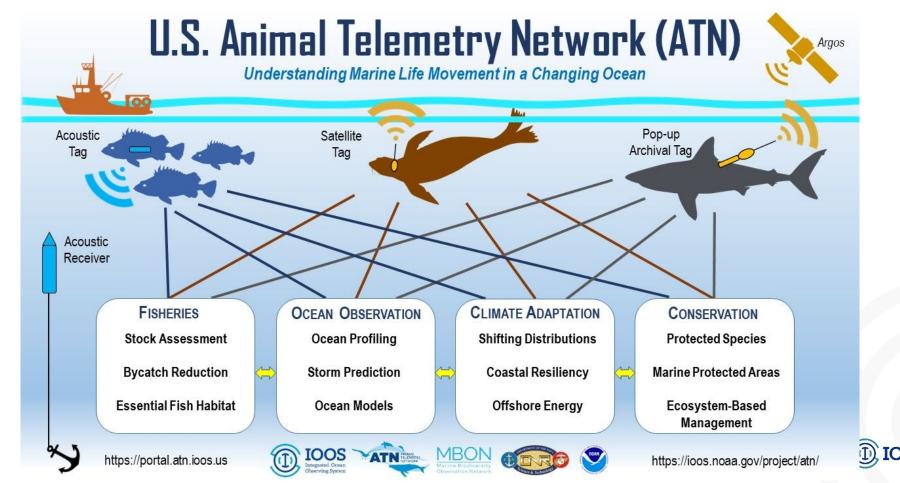
- Telemetry is a tool, but an extremely powerful and adaptable tool for marine life observation
- The use of telemetry is expanding rapidly worldwide
- The need for data management, products, and delivery is growing commensurately



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 Megafauna"

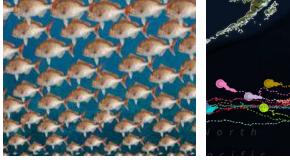
Hotspots







Abundance



Movement

Biodiversity

IOOS Marine Life – https://ioos.noaa.gov/marine-life-1
IOOS ATN – https://ioos.noaa.gov/project/atn
IOOS MBON – https://marinebon.org

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



NANOOS (S)

CENCOOS (S)

PACIFIC OCEAN

PaclOOS

CENCOOS (S)

SCCOOS (S)

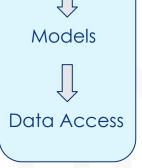
SCCOOS (S)

CENCOOS

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



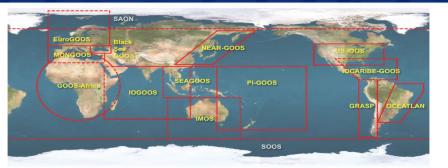
Regional Component

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

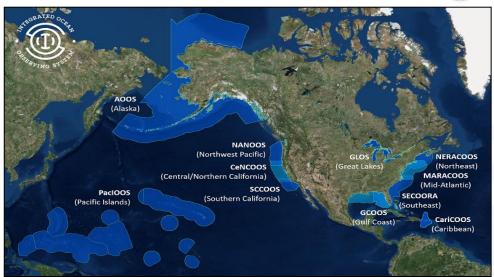








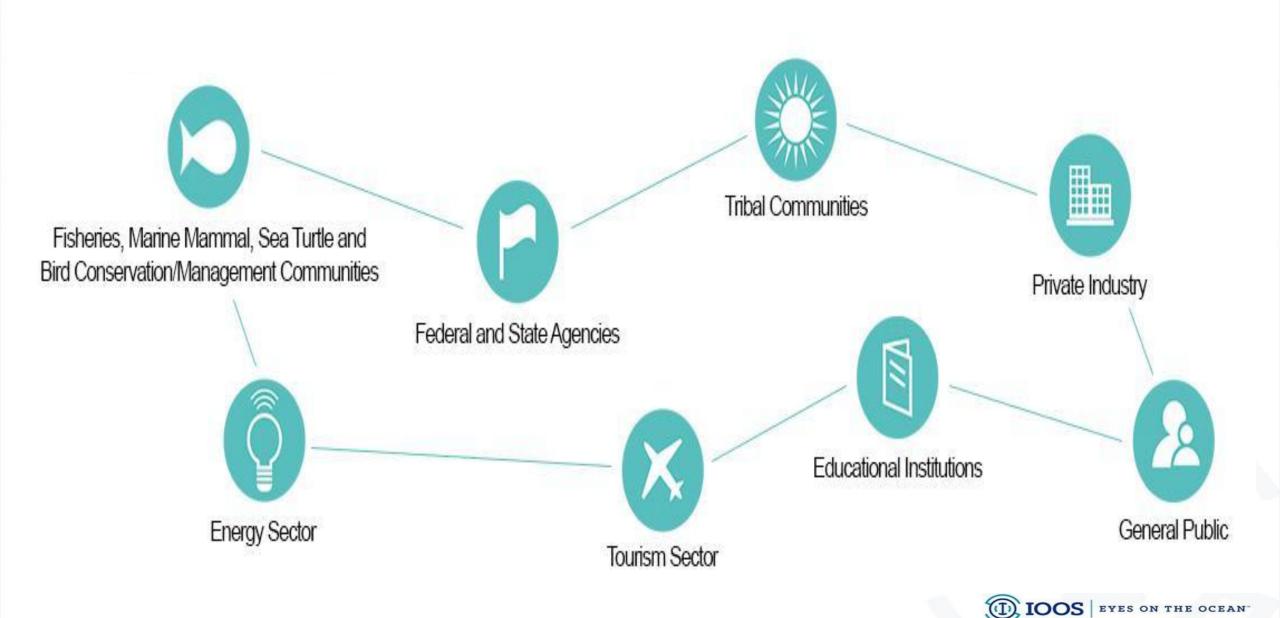




Partnership effort that leverages dispersed national investments to deliver ocean, coastal and Great Lakes data relevant to decision-makers.

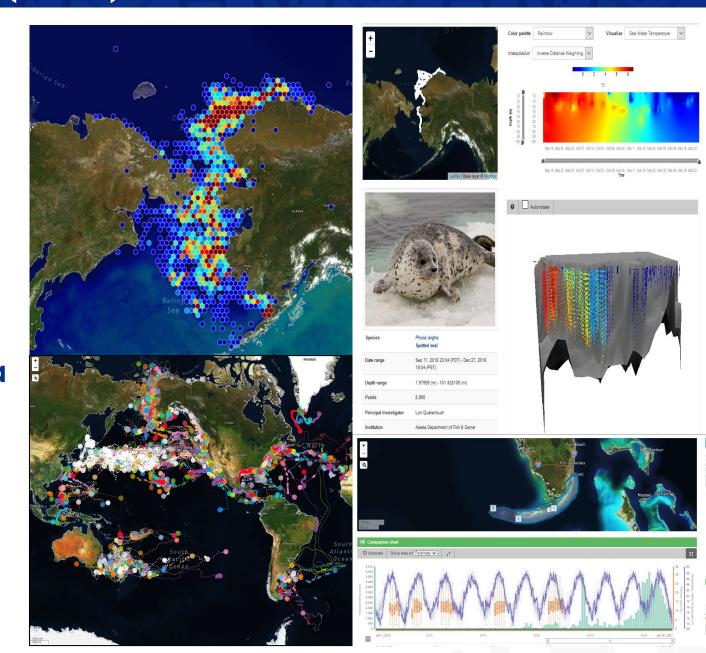


Marine Life Stakeholders

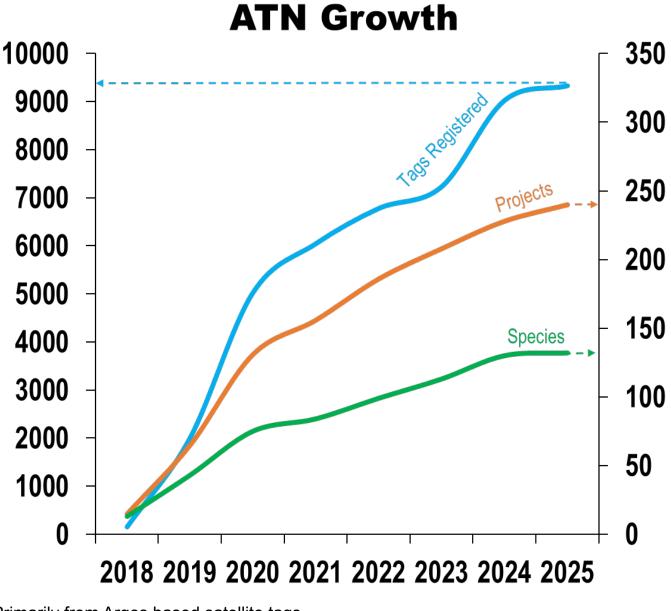


ATN Data Assembly Center (DAC)

- 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

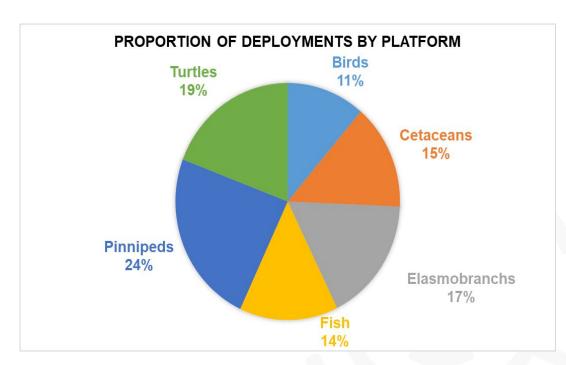


ATN DAC Contributing Members



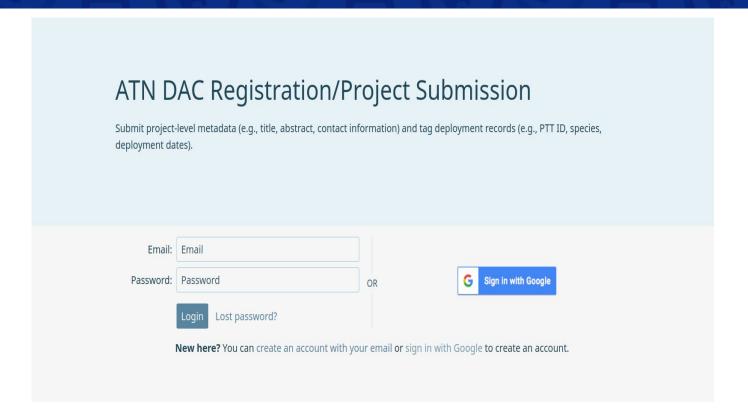
REGISTERED IN DAC*

- Projects = 240
- PIs = 114
- Organizations = 84
- Species = 132
- Deployments = 9334



*Primarily from Argos based satellite tags

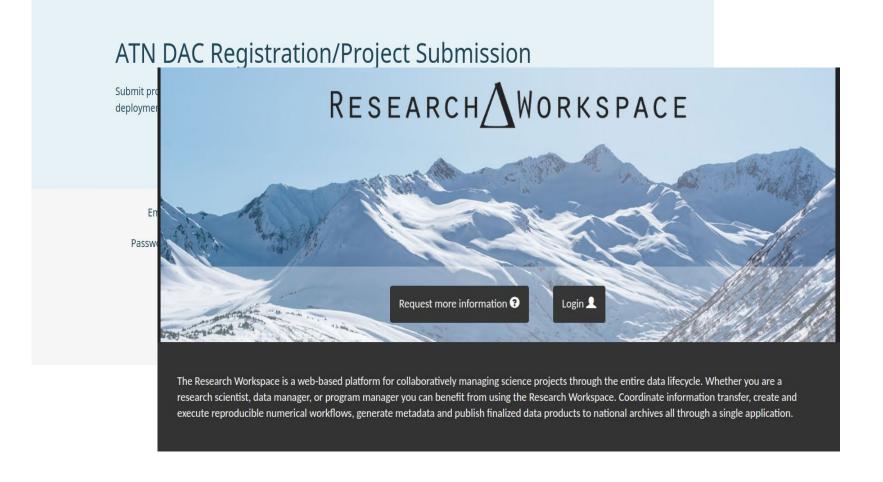
ATN DAC Platforms







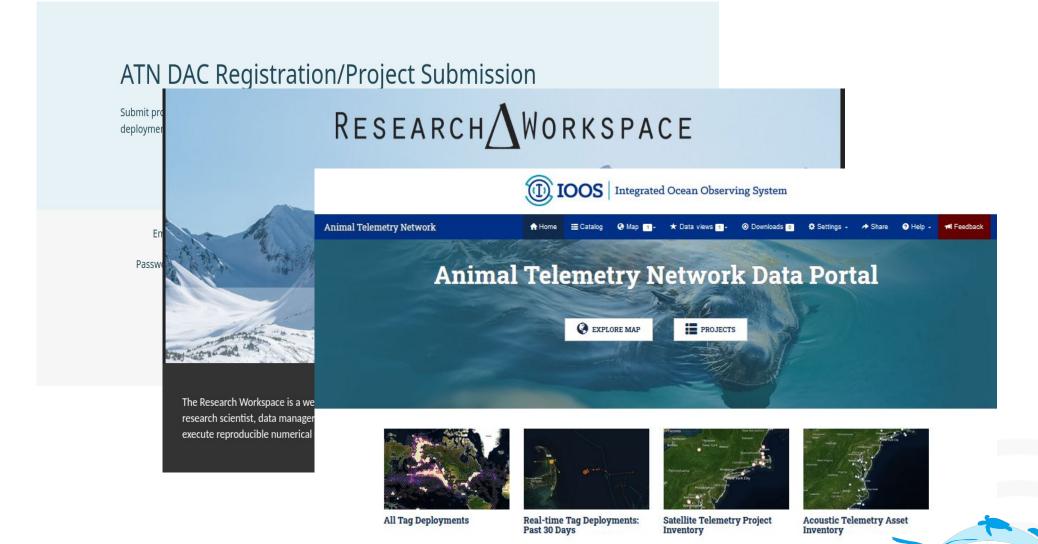
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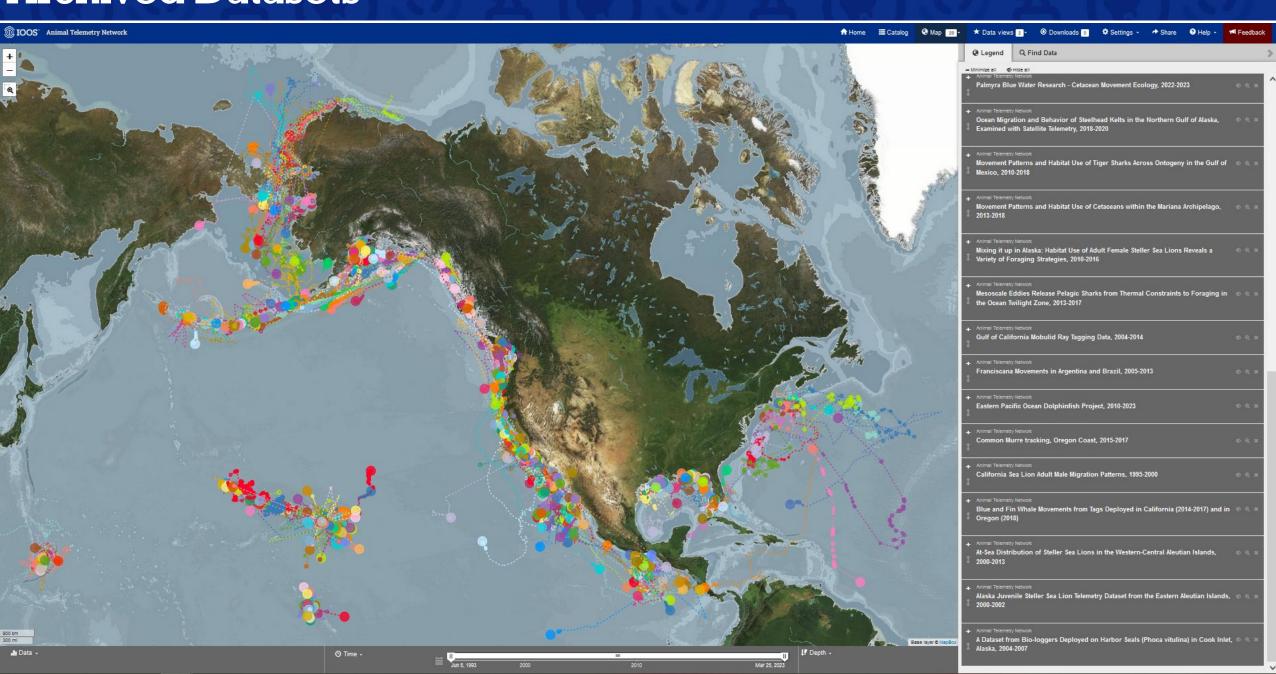
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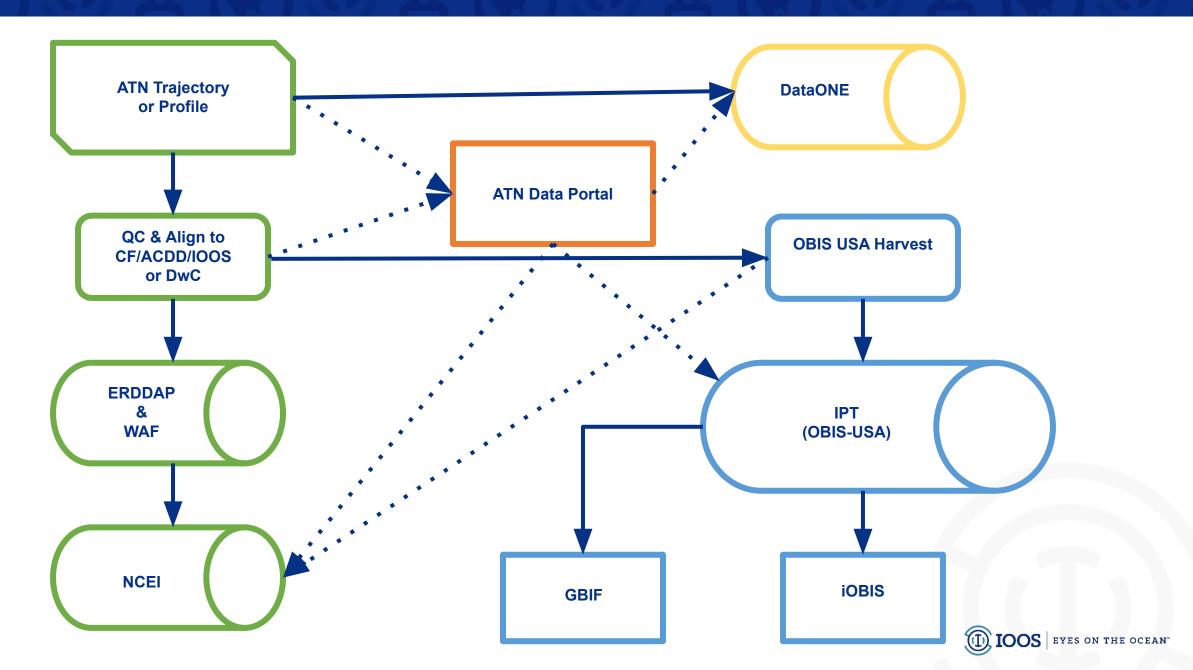


ATN Registration App – https://dacregistration.atn.ioos.us
Research Workspace – https://researchworkspace.com
ATN Data Portal – https://portal.atn.ioos.us

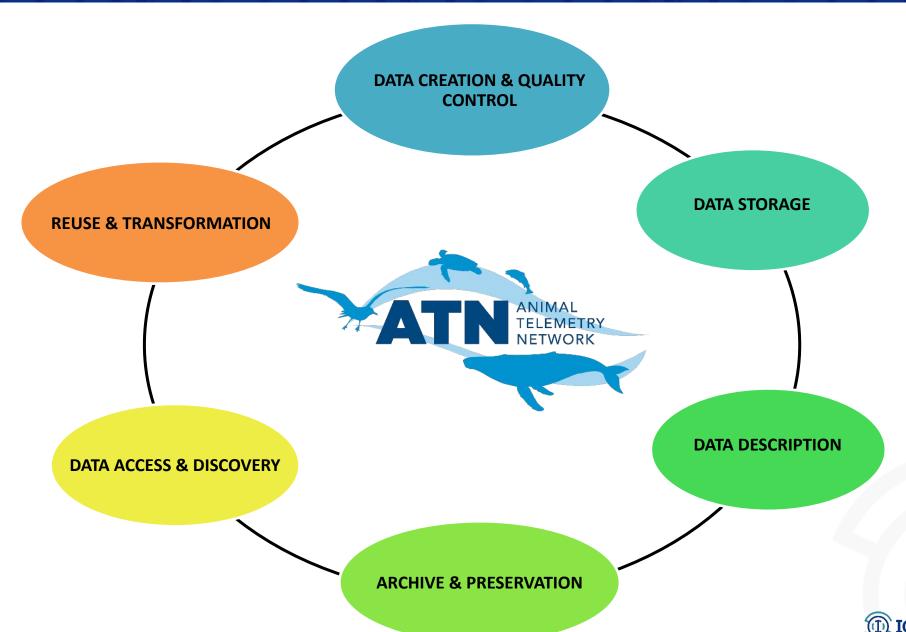
Archived Datasets



Archival Services



ATN Data Assembly Center (DAC)



Have Questions, Get in Touch...

Megan McKinzie, ATN Data Manager mmckinzie@mbari.org



ATN Seal of Approval



