PacIOOS Animal Telemetry Network (ATN) Workshop

April 23-24, 2018

Information Technology Center, University of Hawai'i at Mānoa, Honolulu, HI

Workshop Background

The U.S. Animal Telemetry Network is hosting a series of workshops to: 1) identify regional priorities for telemetry observations of aquatic species, including fishes, turtles, pinnipeds, whales and seabirds; 2) determine if priorities could be served by an ATN baseline network; and 3) examine whether the type and extent of existing telemetry assets could adequately satisfy identified requirements. Information generated at the workshop will be used by the ATN to ensure that a concise plan for sufficient funding of the envisioned national ATN program, including infrastructure, operations, integration, and coordination of assets will be achieved.

Workshop Objectives

- Identify and prioritize the telemetry monitoring/observational needs of regional stakeholders.
- Identify existing telemetry observation assets and describe scientific and data management capabilities in the Pacific Islands region.
- Document examples of stakeholder uses and needs of telemetry data from various sectors.
- Identify opportunities and challenges of animal telemetry in the Pacific Islands region, including regional and national collaborations, data assembly and sharing, and a baseline network approach.

Workshop Agenda

Day 1

8:15-8:30am	Check-in, light breakfast
8:30-8:45	Welcome, introductions, workshop objectives, *Melissa Iwamoto, PacIOOS Director*
8:45-9:00	Review agenda, housekeeping, *Fiona Langenberger, PacIOOS Communications & Program Coordinator*
9:00-9:15	Overview of the U.S. National Animal Telemetry Network, *Bill Woodward, U.S. ATN Network Coordinator*
9:15-9:30	Background and history of animal telemetry efforts in Hawai'i, *Kim Holland, Hawai'i Institute of Marine Biology*

Session Format: *Topics will be presented by invited talks limited to 15 minutes, followed by 20 minutes of group discussions.*

9:30-12:05 Session 1: Natural Resource Management Perspectives

Outcomes: Identify monitoring/observational needs and applications of natural resource management stakeholders in the Pacific Islands region. Application examples include understanding fish distributions, mortality, migration, design of protected areas, definition of essential habitat for protected species, socioeconomics and fisheries management, etc.

9:30-9:45 Russell Sparks, State of Hawai'i, DLNR Division of Aquatic Species
9:45-10:00 Julie Rivers & Robert Uyeyama, U.S. Navy, Pacific Fleet
10:00-10:15 Greg Sanders, Bureau of Ocean Energy Management
10:15-10:30 Rusty Brainard, NOAA Fisheries, Pacific Islands Fisheries Science Center

10:30-10:45 Break

10:45-11:00 Charles Littnan, NOAA Fisheries, Pacific Islands Fisheries Science Center
11:00-11:15 Andrew Torres & Irene Kelly, NOAA Fisheries, Pacific Islands Regional Office
11:15-11:30 Marc Lammers, NOAA Hawaiian Islands Humpback Whale National Marine Sanctuary
11:30-11:45 Jonathan Martinez, NOAA Papahānaumokuākea Marine National Monument

11:45-12:05pm Panel Discussion

12:05-1:00 Lunch Break

1:00-2:15 Session 2: Fisheries Conservation & Management Perspectives

Outcomes: Identify the marine animal telemetry observational needs of fisheries conservation and management organizations and provide a perspective on the importance of these observations to commercial activities in the region.

1:00-1:15 Bruno LeRoy, Pacific Community
1:15-1:30 McGrew Rice, Ihu Nui Sportfishing
1:30-1:45 Eric Kingma, WESPAC
1:45-1:55 Dave Itano, Independent Fisheries Consultant (Written Statement)

1:55-2:15 Panel Discussion

2:15-2:30 Afternoon Break

2:30-3:30 Session 3: Research Sector Perspectives

Outcomes: Identify existing telemetry observing activities, assets and scientific capabilities in the Pacific Islands region, the benefits of various tracking methods and alternative, innovative technologies.

2:30-2:45 Kevin Rhodes, MarAlliance
2:45-3:00 Michael Orr, University of Guam
3:00-3:15 Jason Biggs, University of Guam
3:15-3:30 Todd Jones, NOAA Fisheries, Pacific Islands Fisheries Science Center

3:30-3:45 Wrap-up, Adjourn
4:00 Pau Hana at Mānoa Gardens (backside of Campus Center at Ba-Le)

Day 2

8:15-8:30am Light breakfast, meet and greet

8:30-8:45 Welcome, Review Agenda and Breakout Sessions, Recap of Day 1, *Bill Woodward*

8:45-10:20 **Session 3: Research Sector Perspectives *continued***

8:45-9:00	*Kim Holland, Hawai'i Institute of Marine Biology, Shark Lab*
9:00-9:15	*Carl Meyer, Hawai'i Institute of Marine Biology, Shark Lab*
9:15-9:30	*Melanie Hutchinson, NOAA Fisheries, Pacific Islands Fisheries Science Center*
9:30-9:45	*Lars Bejder, Hawai'i Institute of Marine Biology, Marine Mammal Research Program*
9:45-10:00	*Robin Baird, Cascadia Research Collective*

10:00-10:20 Panel Discussion

10:20-10:35 Architecting the Future ATN Data Assembly Center, *Rob Boschenek, Axiom Data Science*

10:35-10:50 Managing and Visualizing Animal Telemetry Data in the Pacific Islands Region, *Jim Potemra, PacIOOS and University of Hawai'i*

10:50-11:00 Coffee Break; Split into two Breakout Groups

11:00-12:00 **Breakout Session 1**

- Identify existing telemetry observation assets and describe scientific and data management capabilities in the region.
- Identify and prioritize the telemetry monitoring/observational needs of regional stakeholders and how the data are used.

12:00-12:45pm Lunch Break

12:45-1:45 **Breakout Session 2**

- Identify opportunities and challenges of animal telemetry efforts in the Pacific Islands region.

1:45-2:15 Report-out from two Breakout Groups

2:15-3:00 Open Discussion

3:00-3:15 Wrap up, Adjourn