



# Wildlife Computers Inc

A Brief History, Current and  
Ongoing Projects, and Direct  
Involvement in STRETCH



# Roadmap

- The company
- End-to-end quality and support
- STRETCH
- Tag design and new tags
- SPOT-S-433



# Wildlife Computers

Biologging for 40 years

## Who we are:

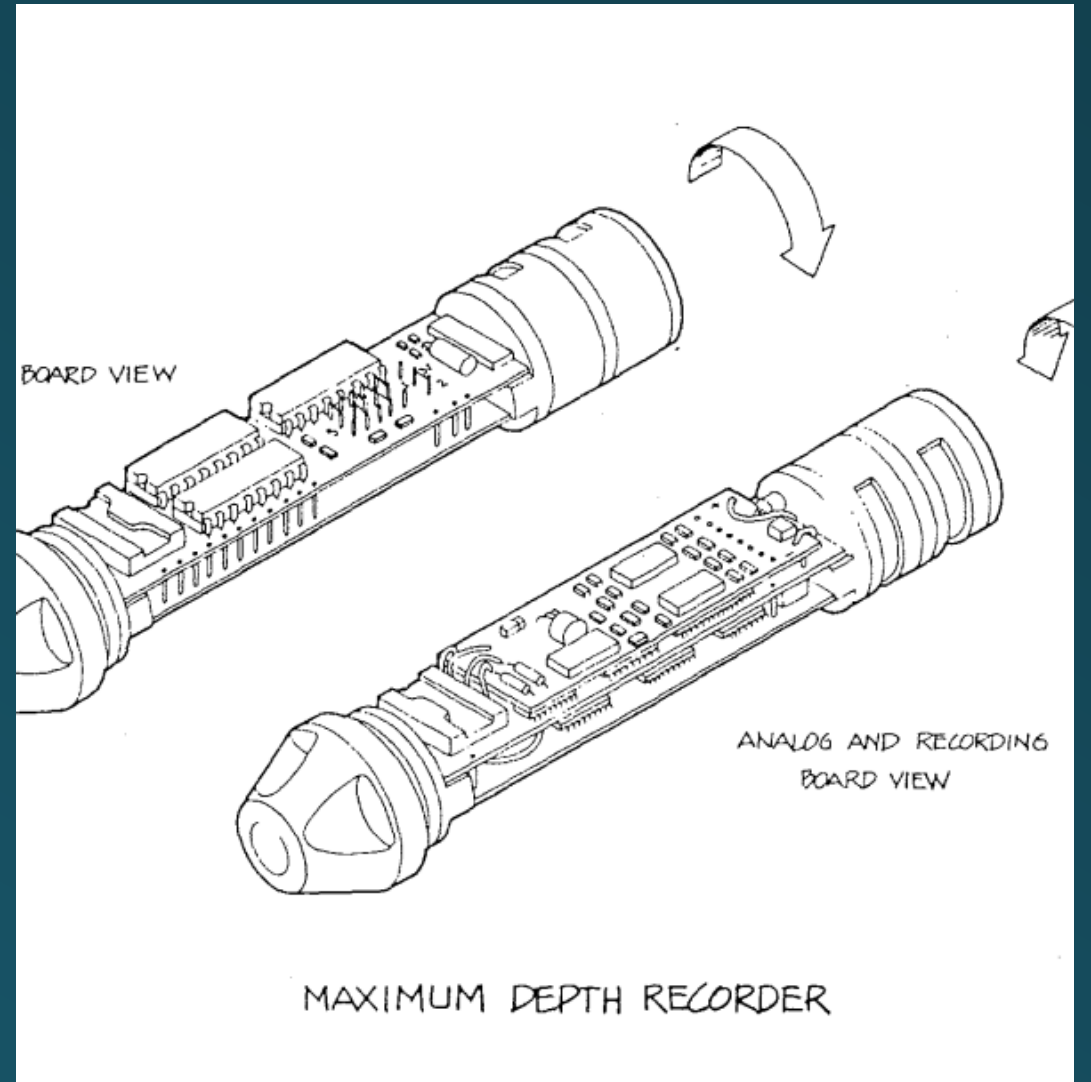
-  Established in 1984 by Roger and Sue Hill
- 100+ tag configurations available
- 4000+ publications to date
- 500+ partnering organizations
- 70+ different countries with active projects



# Supporting science

The first commercial electronic time-depth recorder.

Early producer of satellite tags.



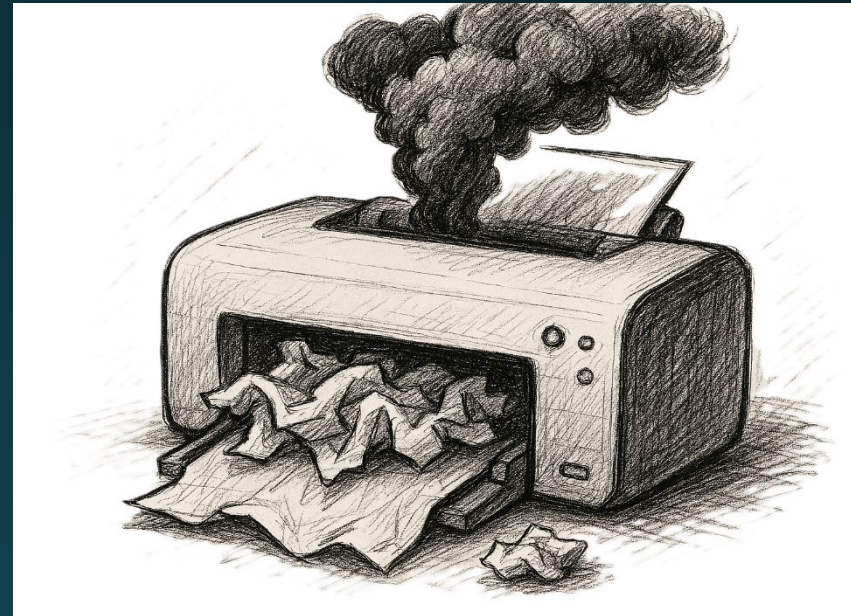
# Supporting science with dependable tools

Reliable

Accurate

Tough





# End-to-end quality

How do we make a dependable tag?

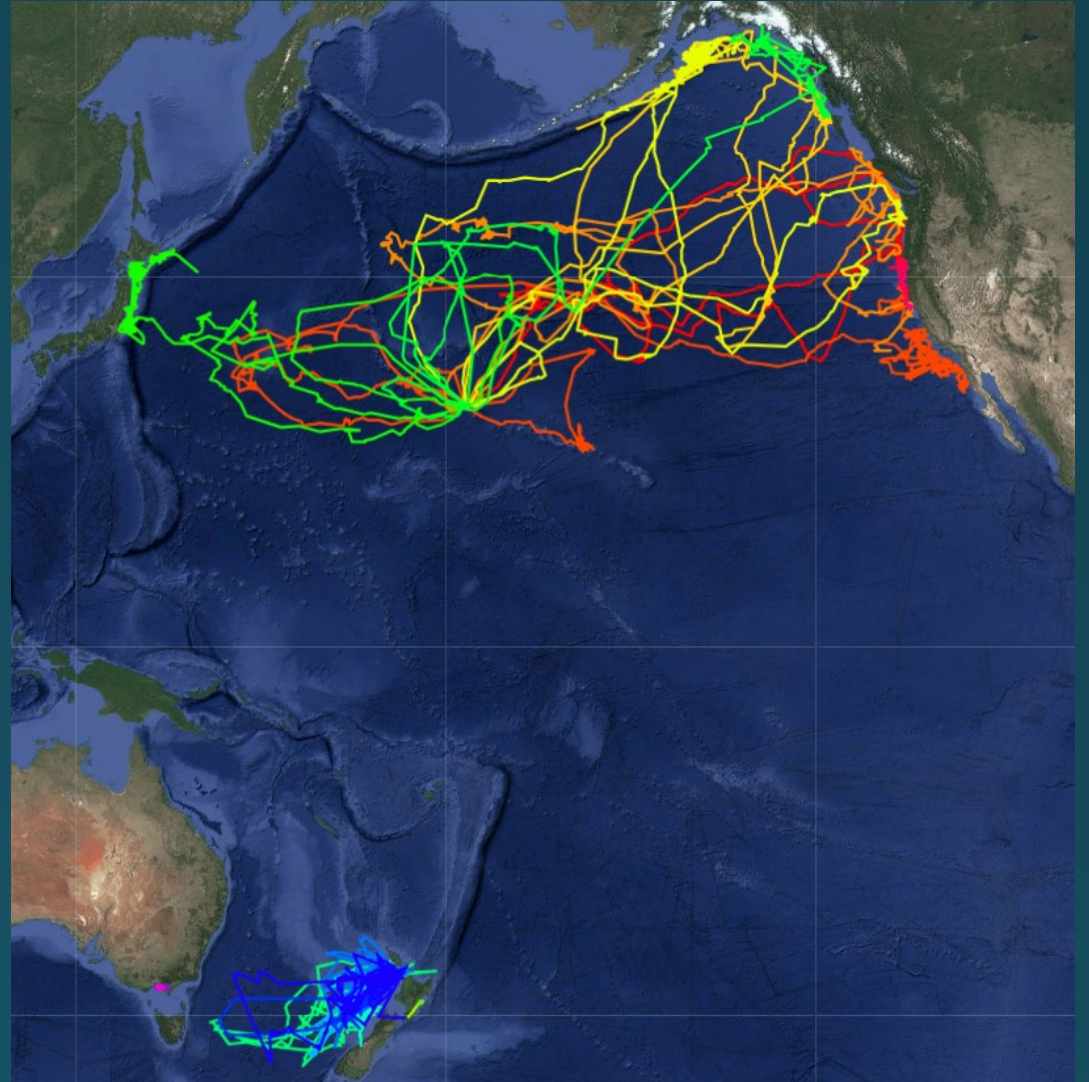
# Quality assurance



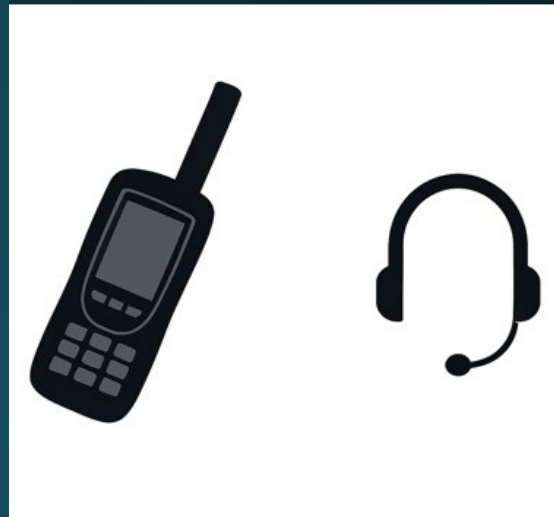
# Tag selection and setup



# Data processing



# Support



# STRETCH

How are the deployments going?

# STRETCH by the numbers

As of October 3, 2025

- 81 tags deployed
- 45 transmitting
- 0 (known) critical failures

Deployed	81	tags
Still transmitting	45	tags
Exhausted battery	24	tags
Off-the-air-early	12	tags
Critical failures	0	tags
Min deploy duration	30	days
Max deploy duration	459	days
Average deployment duration	239	days
Total receptions	490484	
Total locations	69168	
Total turtle days	18803	



# STRETCH by the numbers

As of October 3, 2025

- 490,484 receptions
- 69,168 locations
- 18,803 turtle days

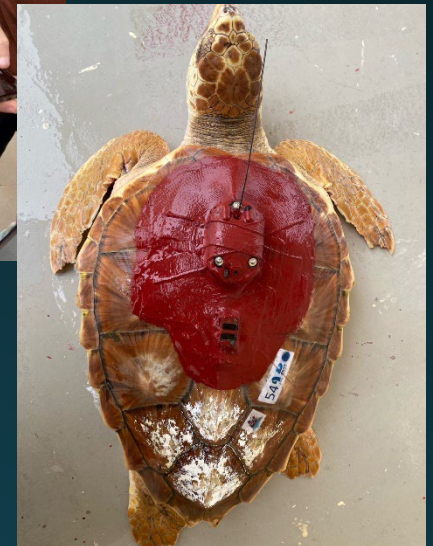
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# STRETCH by the numbers

As of October 3, 2025

- 2 in person visits
- 5 test deployments

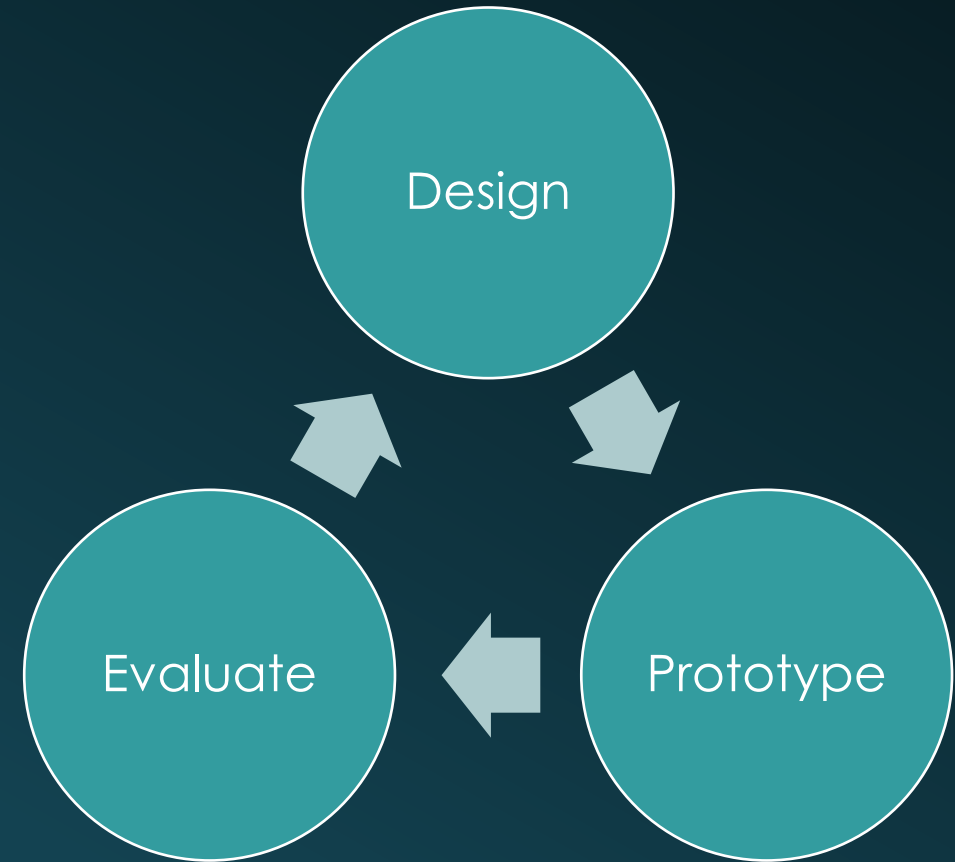


# TAG EVOLUTION

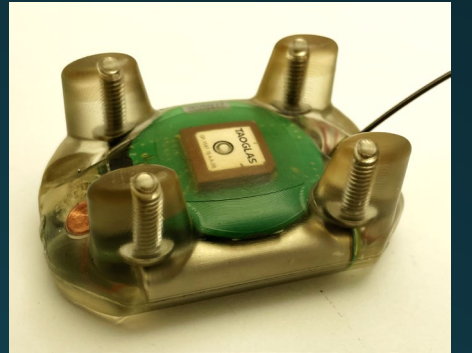
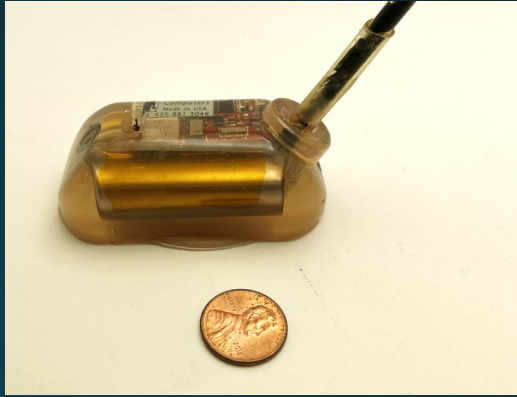
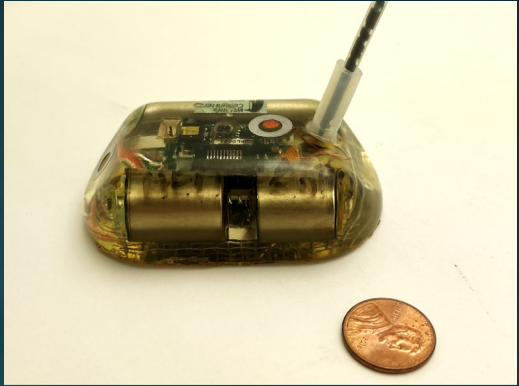
Innovate, develop, test, and iterate

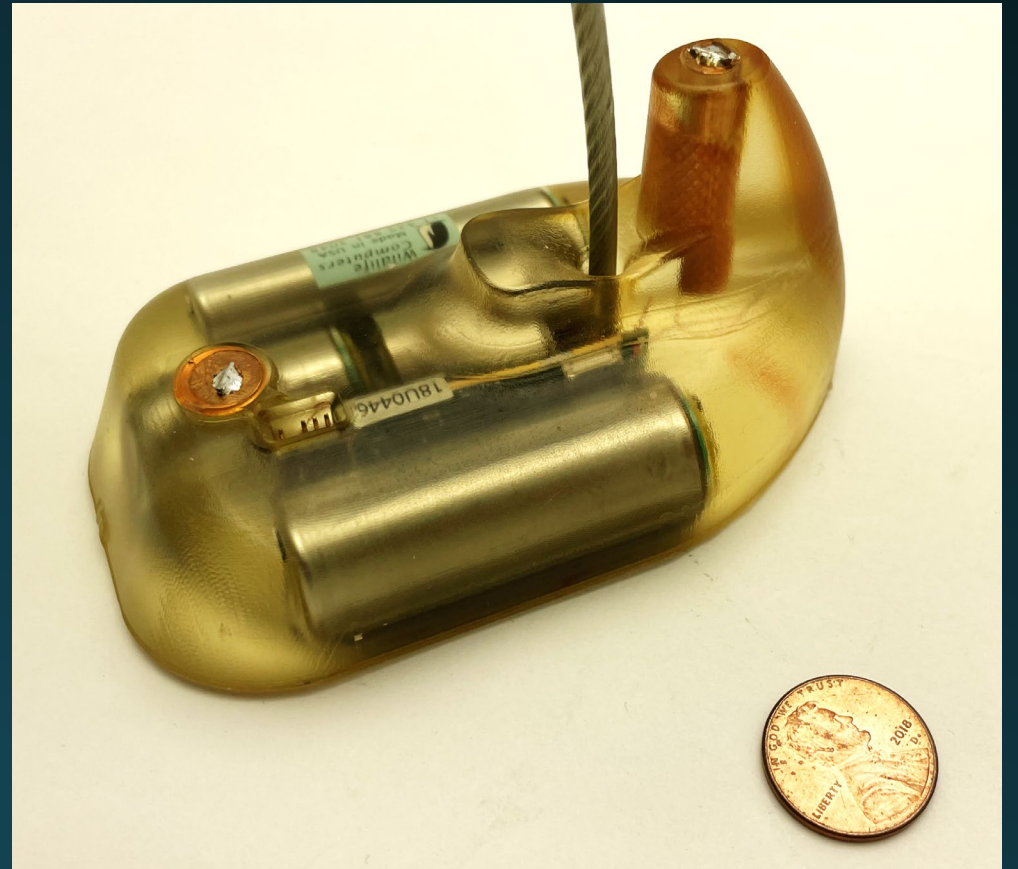
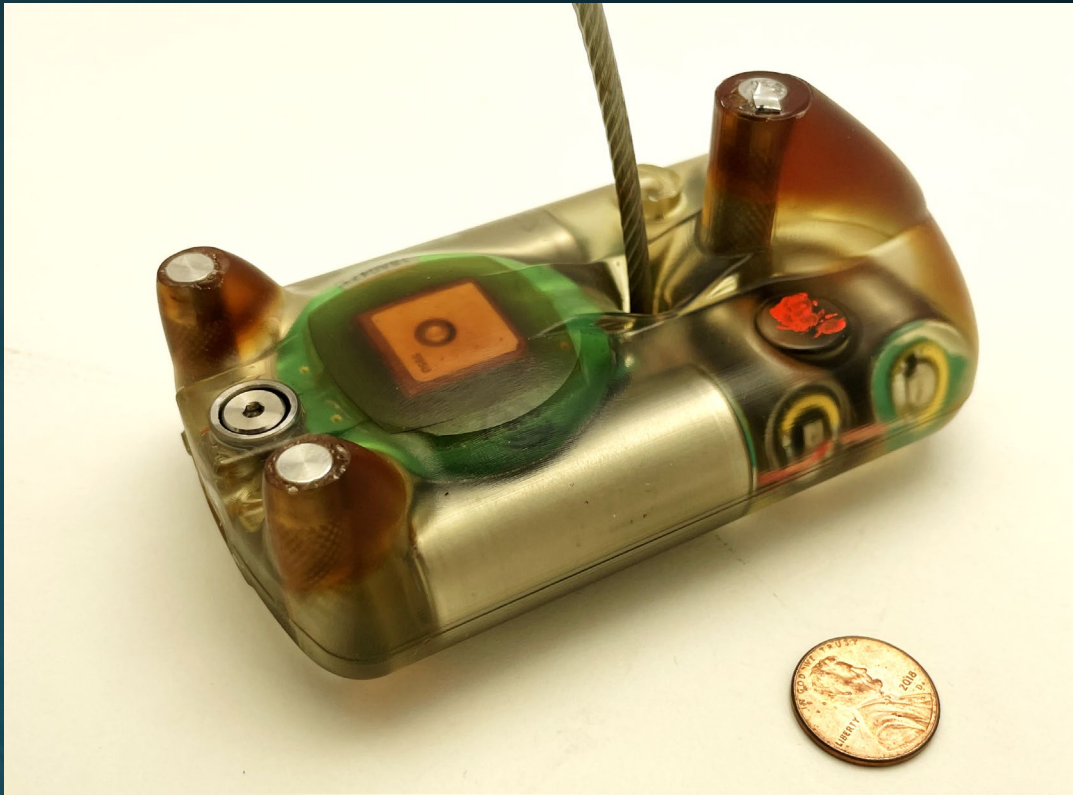
# Tag development and iteration

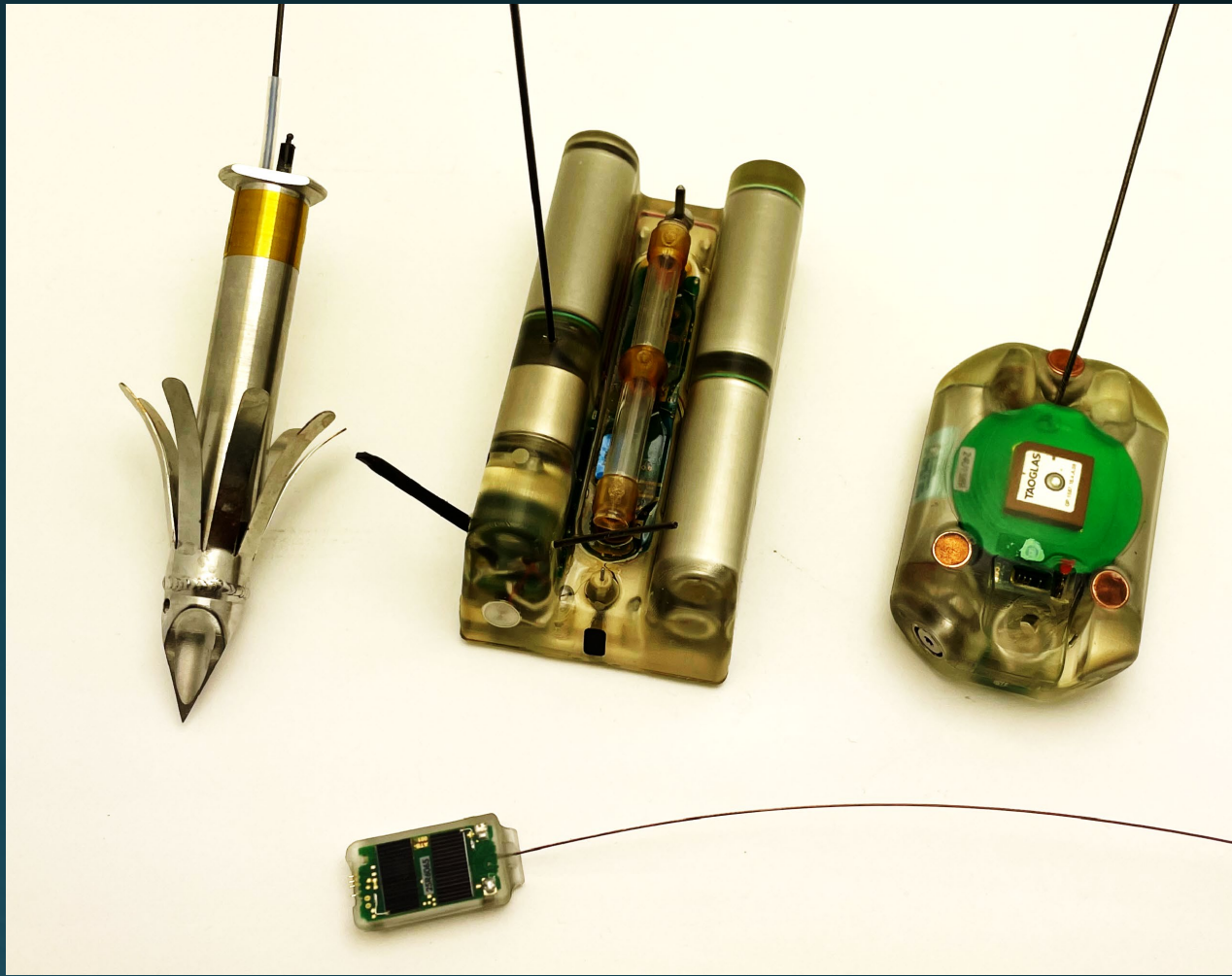
- Field trials
- Diagnostics
- Researcher feedback
- Expert knowledge

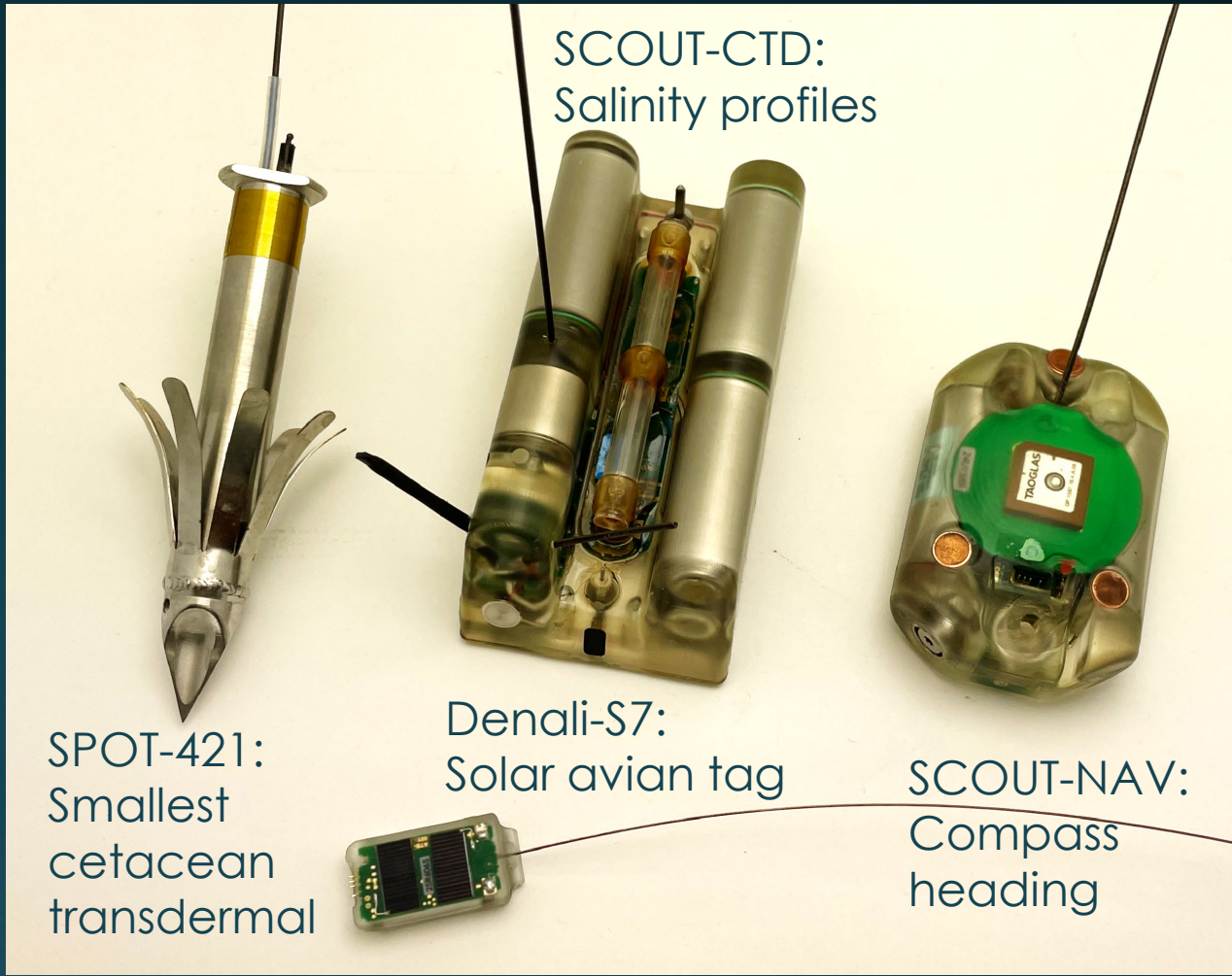










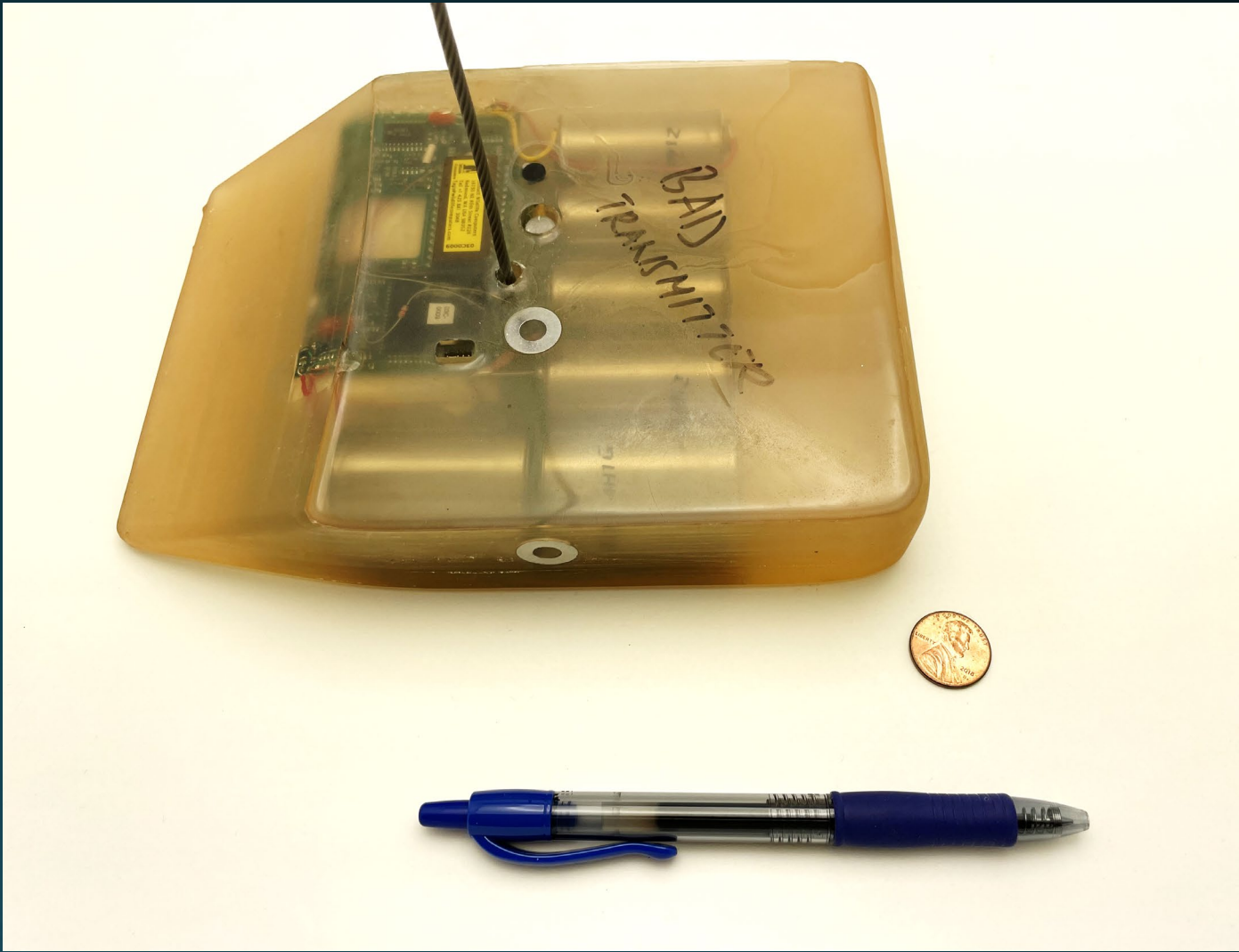


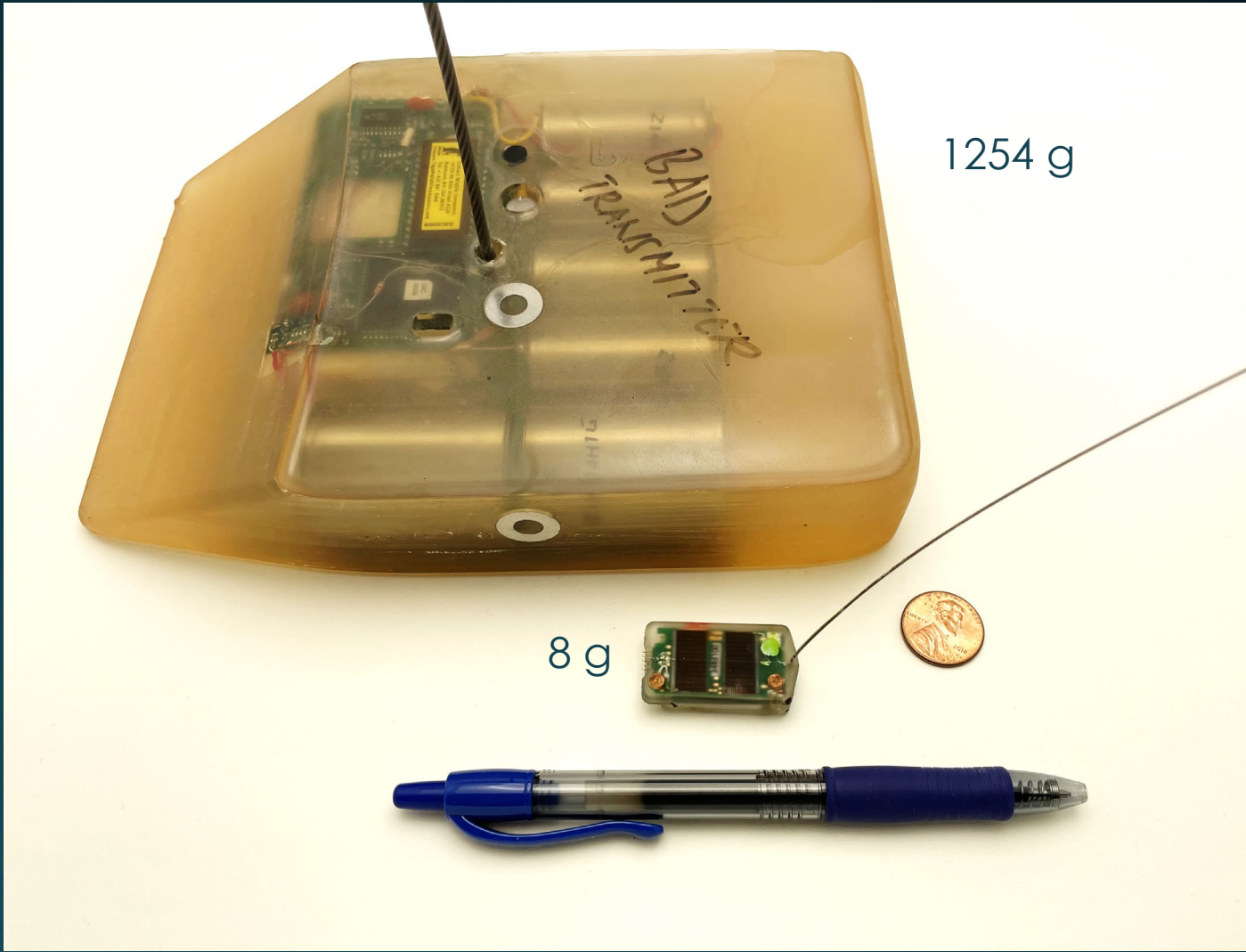
SCOUT-CTD:  
Salinity profiles

SPOT-421:  
Smallest  
cetacean  
transdermal

Denali-S7:  
Solar avian tag

SCOUT-NAV:  
Compass  
heading

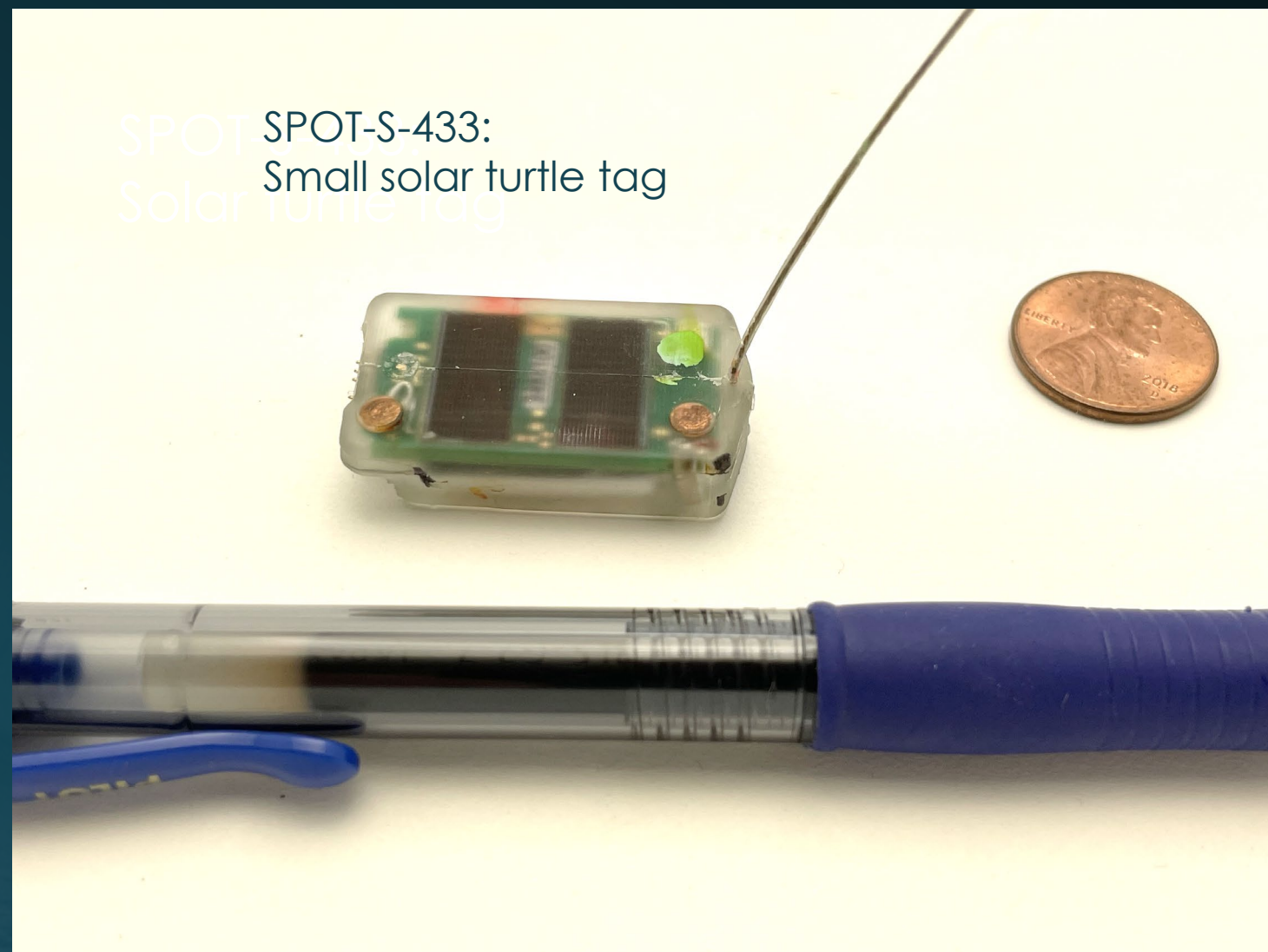




1254 g

8 g

SPOT SPOT-S-433:  
Small solar turtle tag  
Solar turtle tag



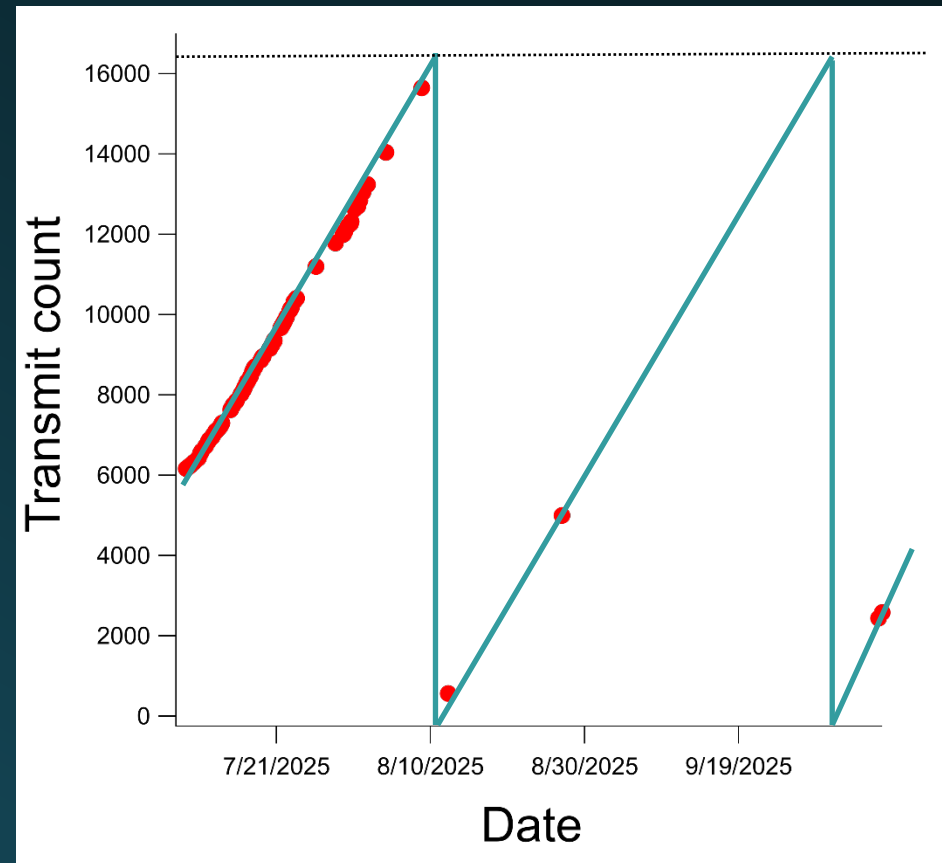
# SPOT-S-433 Field Trial

Closing the design loop



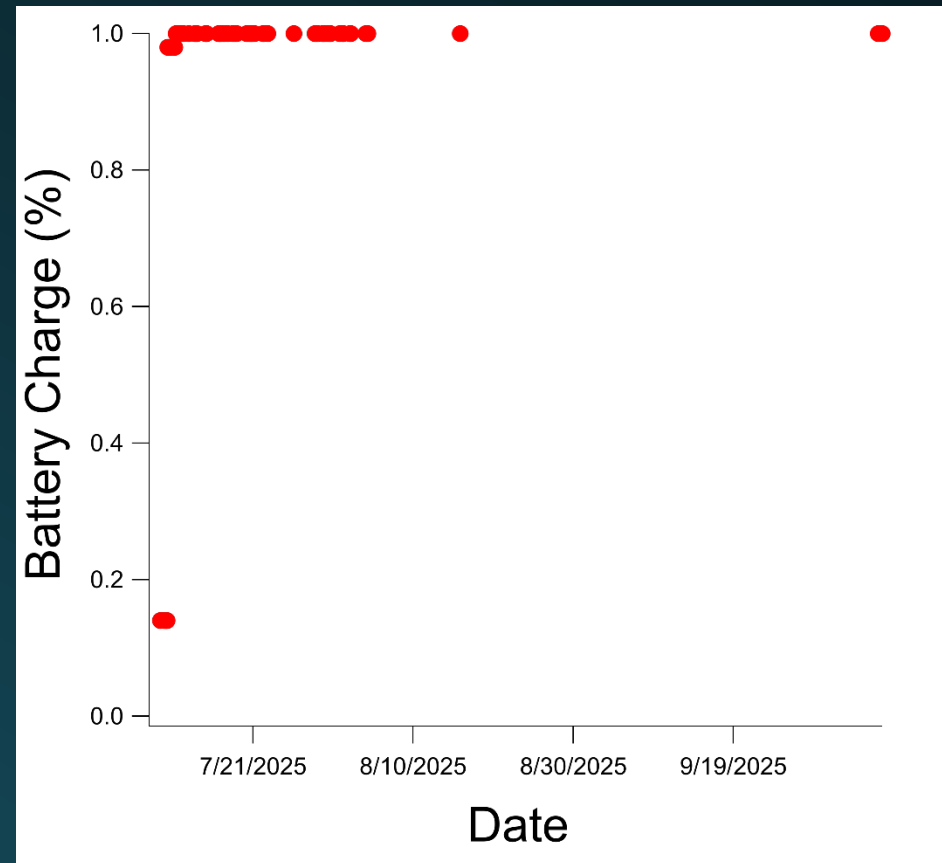
# SPOT-S-433 test deployment

- Long transmission gaps
- Transmitting through the gaps



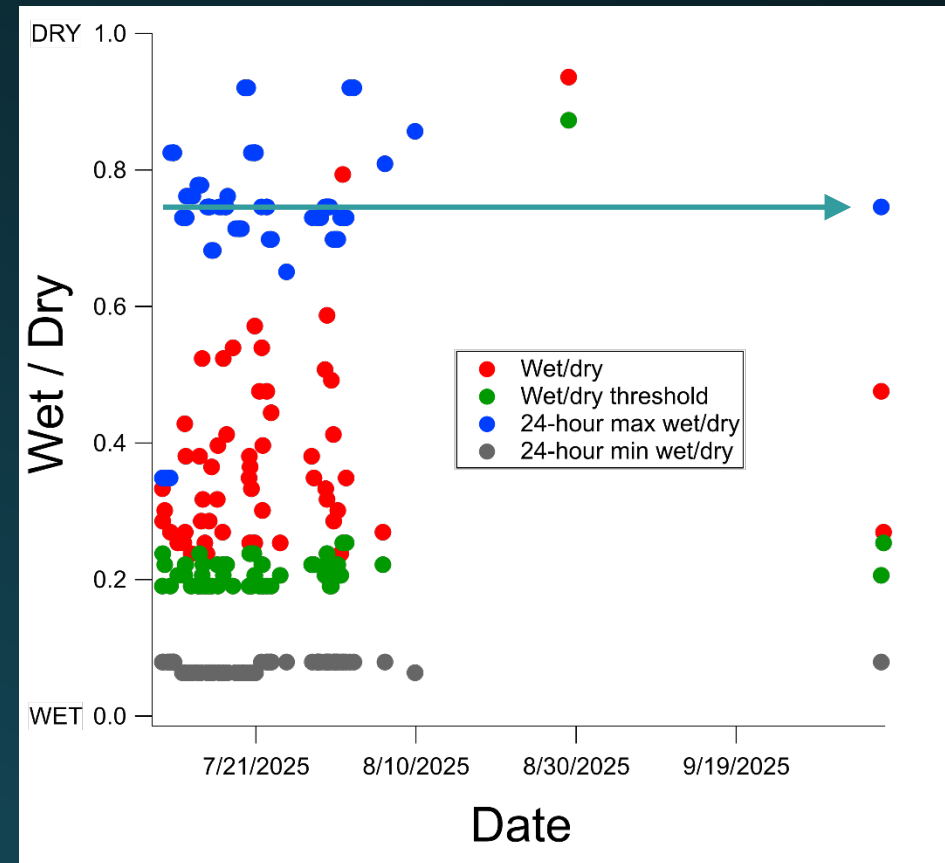
# SPOT-S-433 test deployment

- Solar harvesting
- Battery fully charged



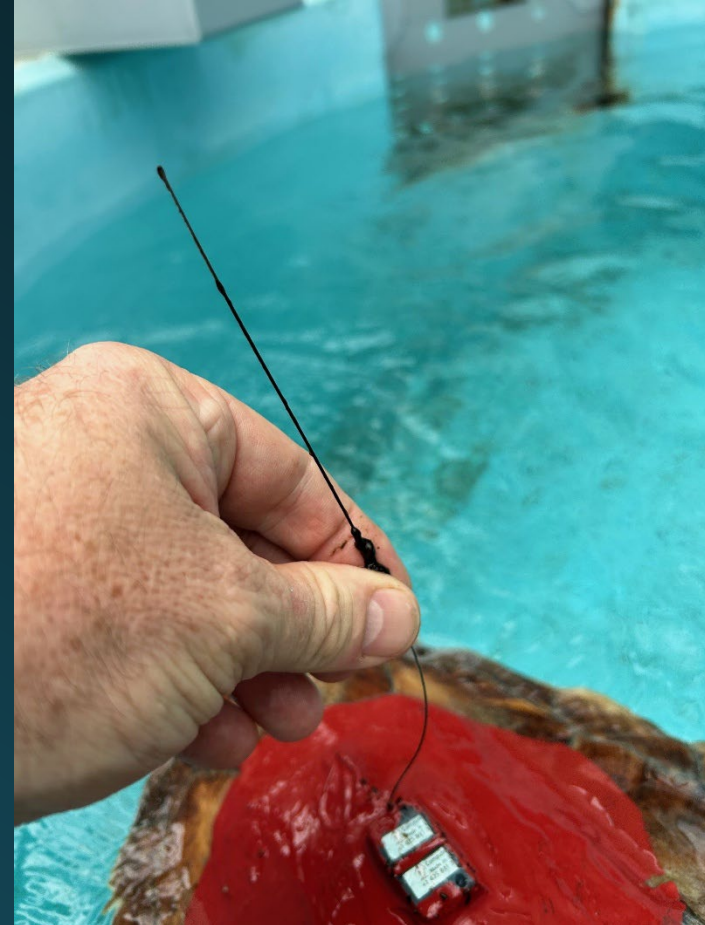
# SPOT-S 433 test deployment

- Wet/dry threshold adjusting
- No fouling
- Not submerged



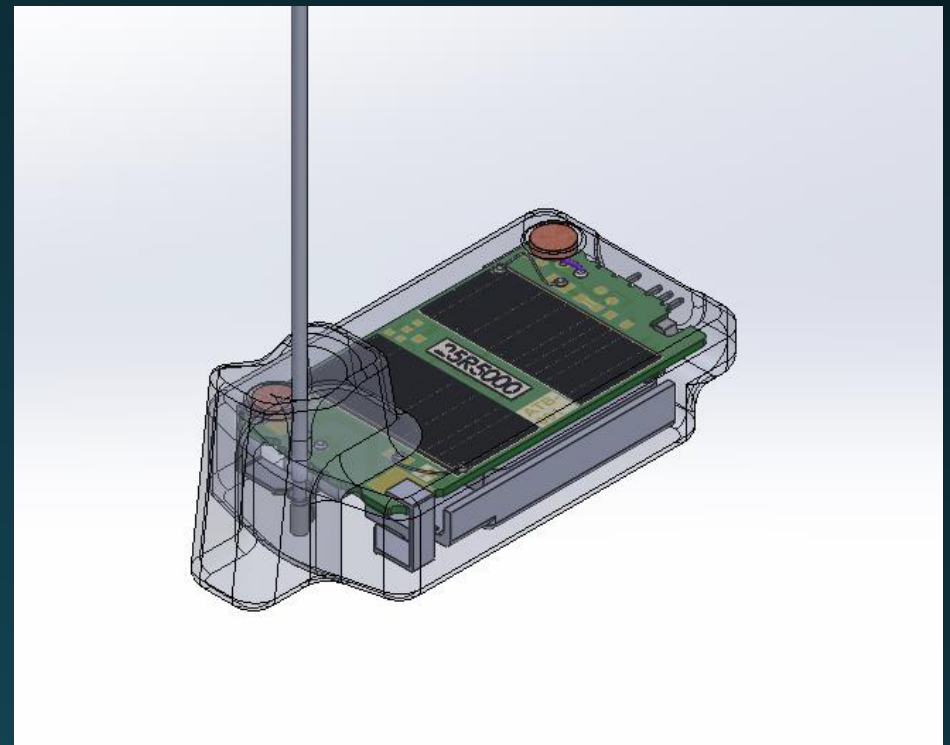
# SPOT-S-433 test deployment

- Hypothesis: antenna is touching the water
- Root cause 1: debris or fouled?
- Root cause 2: too floppy?



# SPOT-S-433 future tests

- Stiffer antenna
- Horn and trumpet antenna protection



# Thank you!

