



# Data Stories Series - What are those whales doing?



# Thank you for joining us



**Dr. Ari Friedlaender**  
Marine Mammalogist  
Associate Researcher  
Institute of Marine Sciences, UC Santa Cruz



**Kristin Hunter-Thomson**  
Data Stories Series Coordinator  
Program Director, Teaching Instructor  
Rutgers University

# Tonight's agenda

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- Welcome and webinar logistics
- Explore “Finding Food” Data Story
- Get to know Ari & his work
- Brainstorm how to bring this into our classrooms
- Next steps and evaluation

## Finding Food?

A view of whale behavior and diving patterns over time suggests that they are choosing to go to different depths at different times, but why?

← Prev 1 2 3 4 5 6 End Next →

### 1) Looking at whale diving behavior

Scientists working down in Antarctica attached temporary tags\* to [humpback whales backs](#) in the fall of 2009. To better understand whale behavior, scientists track numerous whales in-person (from a boat) and by looking at the tag data of where they go when we cannot see them at the water surface.

Let's learn about how they do this.

*\*NOTE – All animal-related work in this study was permitted under the U.S. Marine Mammal Protection Act by the National Marine Fisheries Service Permit 808-1735, the Antarctic Conservation Act Permit 2009-014, and Duke University Institutional Animal Care and Use Permit A041-09-02.*

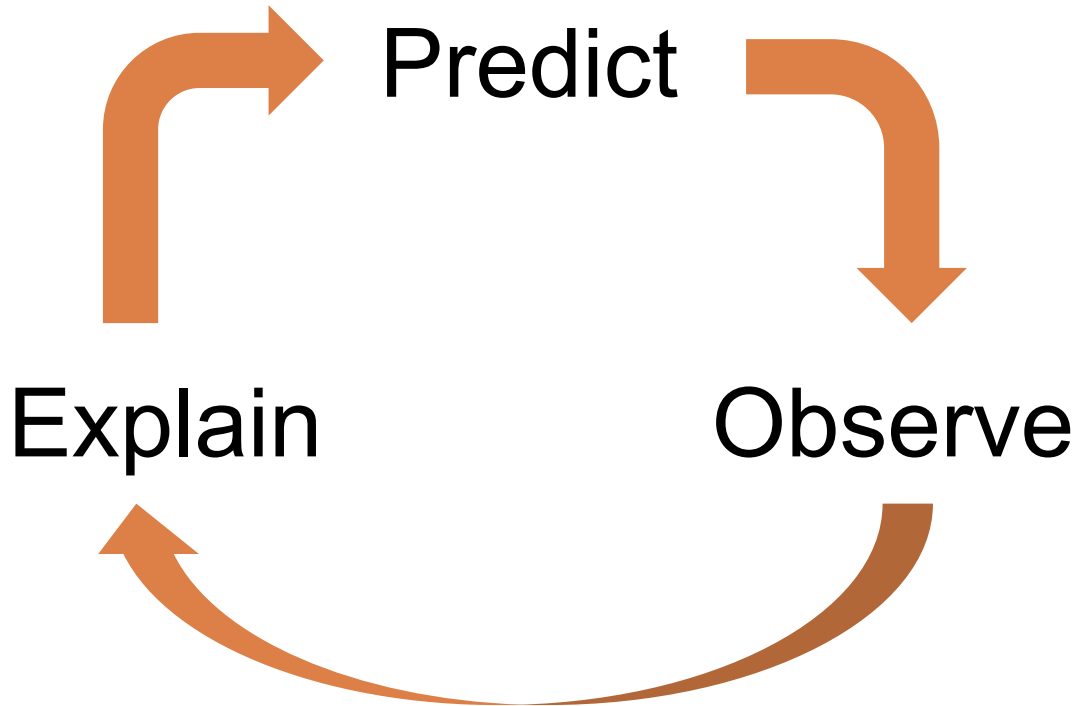


What data skills are you using?  
 What questions do you have?  
 What do you like?  
 What is frustrating?



# Ari & the science...

# Approach to this Data Story





# Let's get our kids doing this...

What are some ways that we can envision bringing this into our classrooms?

# A Whale of a Roller Coaster

① [www.mbari.org/earth-2017-day-5/](http://www.mbari.org/earth-2017-day-5/)

*Nancy FitzGerald, Jacqueline Galella*

## A Whale of a Roller Coaster

The use of technology is critical in studying Humpback whales. Students will explore the use of tagging technologies in the research being conducted in the southern ocean around Antarctica. Students will simulate this tagging data in the classroom and will need to analyze, model, and interpret their data.

- [Lesson Plan](#)
- [Sensor Kinetics Worksheet | Answer Key](#)
- [Whale track video](#)
- [Mother and calf video](#)
- [Sensor Kinetics app](#)



# Next steps

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Available indefinitely

Recording of webinar posted by 11/3

“Answer key” posted on 11/8

<https://polar-ice.org/focus-areas/polar-data-stories/>



# Thank you for joining us!

**Wednesday, December 6th 8-9pm -**  
How and why are glaciers changing over time?

<https://polar-ice.org/focus-areas/polar-data-stories/>

