

# Mōlī (Laysan Albatross)

Kīlauea Point National Wildlife Refuge

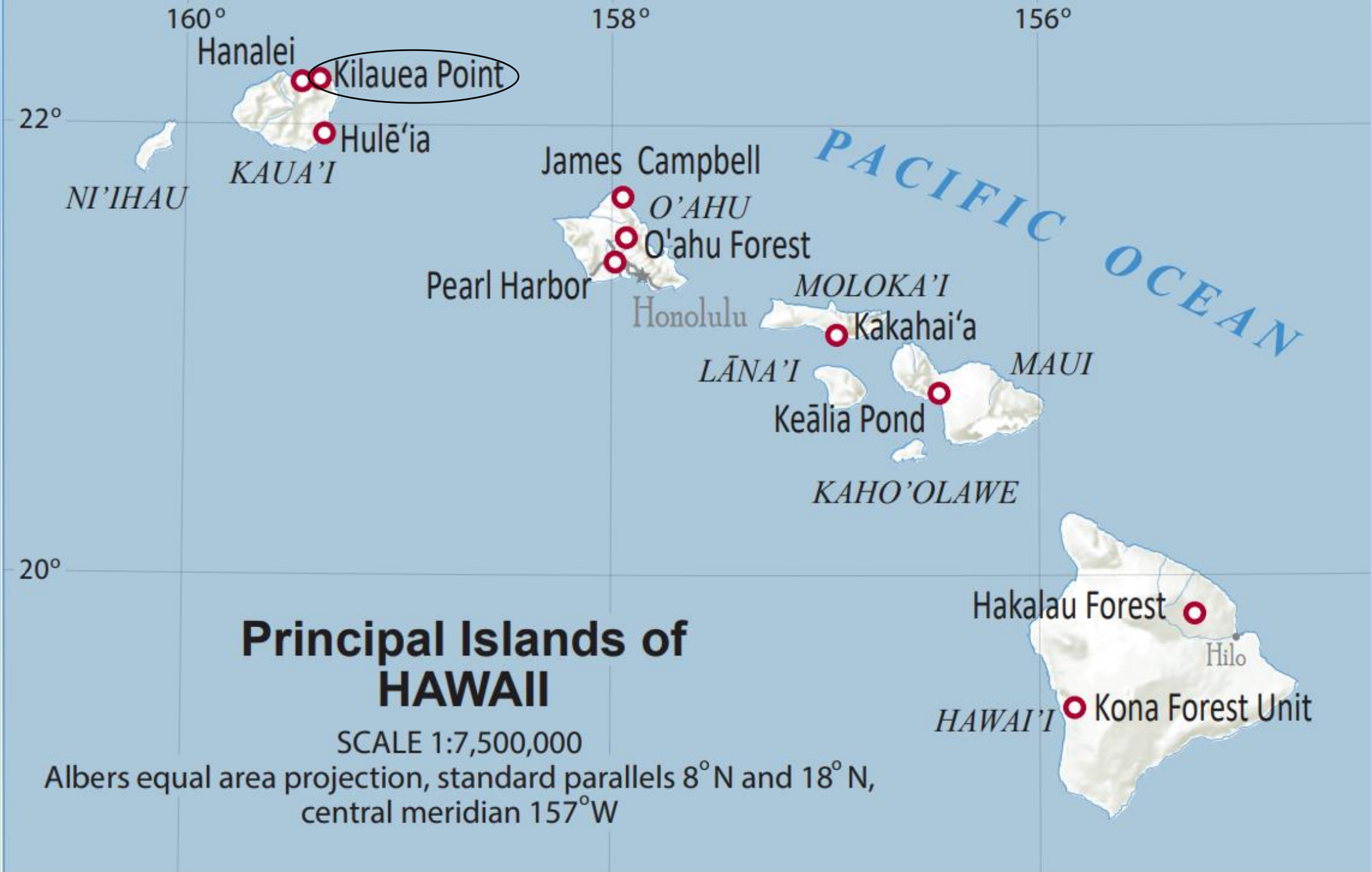


# Kīlauea Point National Wildlife Refuge



# U.S. Fish and Wildlife Refuges





# Principal Islands of HAWAII

SCALE 1:7,500,000

Albers equal area projection, standard parallels 8° N and 18° N, central meridian 157° W

What I KNOW  
about albatrosses

What I WONDER  
about albatrosses

What I LEARNED  
about albatrosses



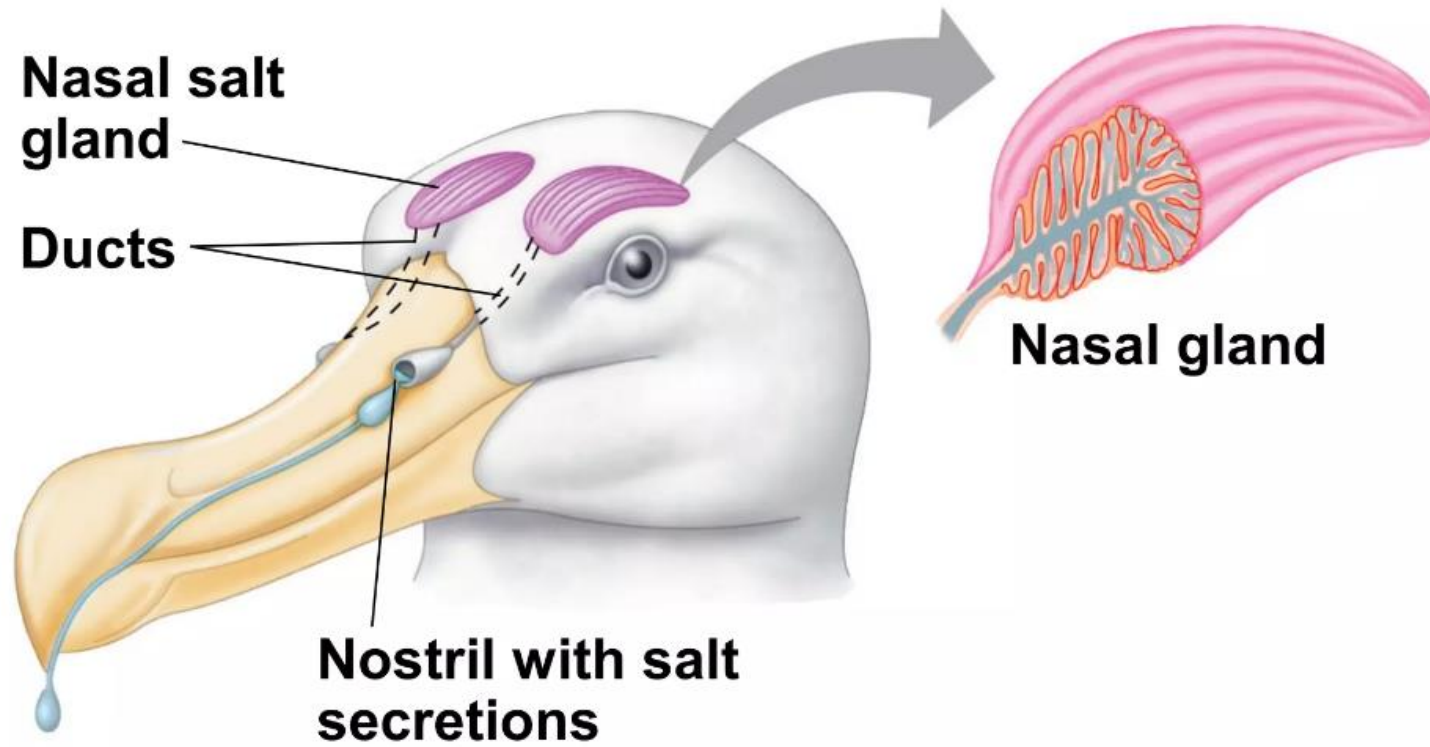
# Lesson One Learning Target



I can explain how seabird **adaptations** help mōlī survive in their **habitats**.

**Adaptations** are any structure (body part) or behavior that helps a plant or animal sustain themselves.

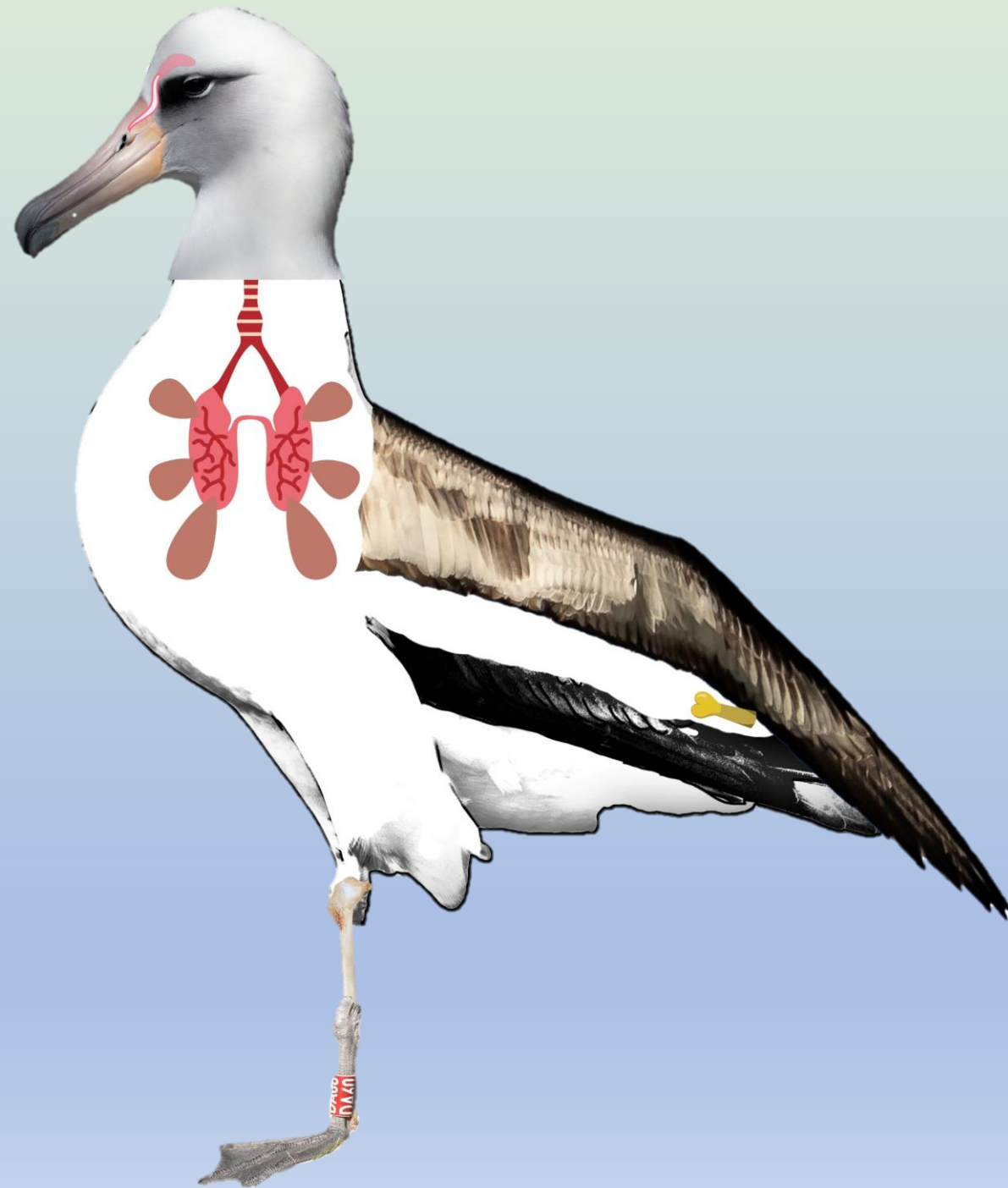
Figure 44.7a



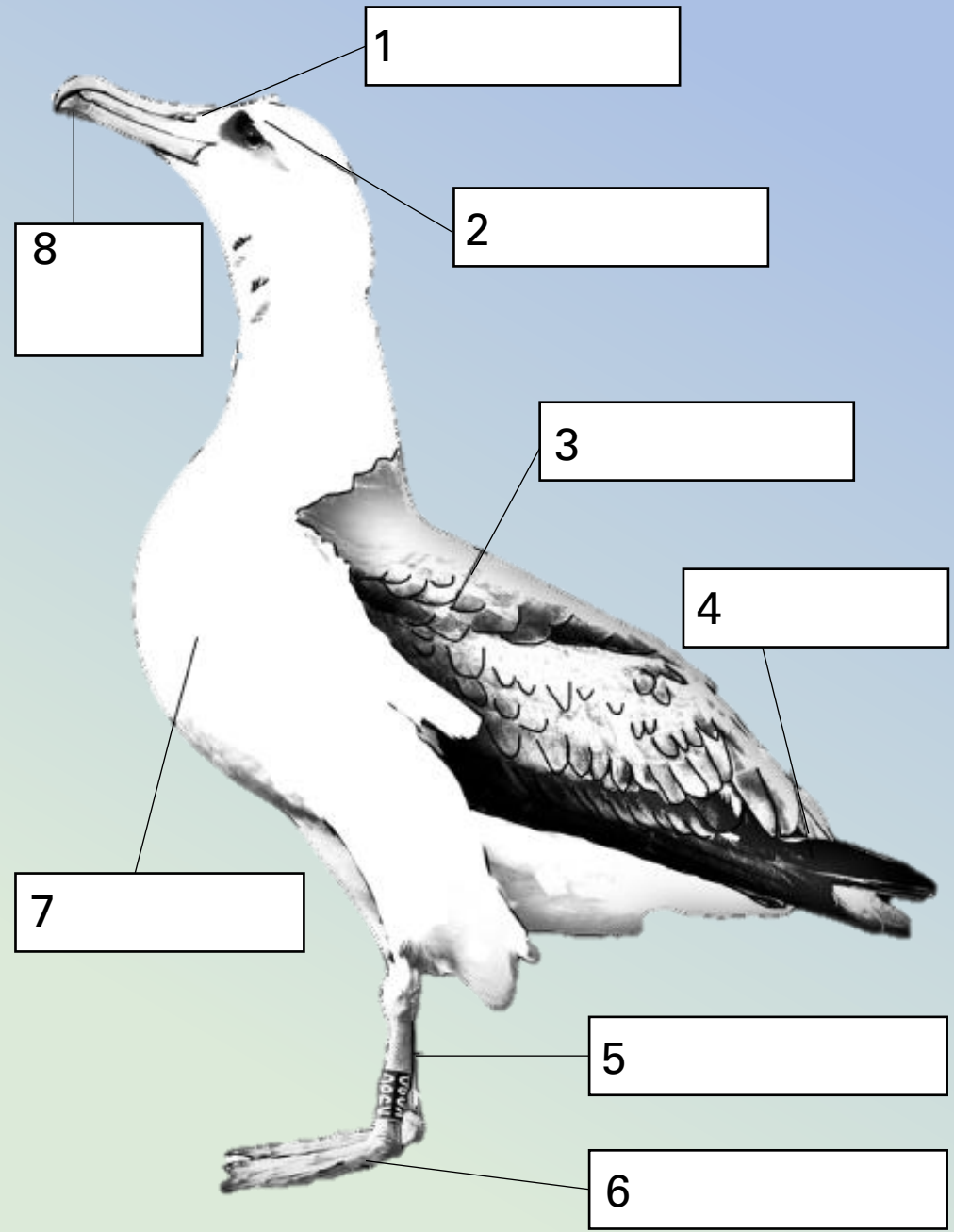
**(a) Location of nasal glands in a marine bird**

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Royal albatross salt gland








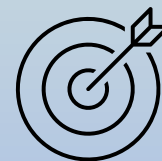
# Lesson One Learning Target



I can explain how seabird **adaptations** help mōlī survive in their **habitats**.

# Lesson Two Learning Targets

 I can explain how living in a **colony** while on land helps mōlī survive.

 I can make a **scientific model** of the mōlī **life cycle** and describe what makes it unique from other animals.

A **scientific model** is a physical representation of a real situation that can be observed.

# Mōlī Courting Video



[https://www.youtube.com/watch?v=z3DX86ZI\\_nc](https://www.youtube.com/watch?v=z3DX86ZI_nc)

# Kīlauea Point Mōlī Hill



# Princeville Colony



# Moloa'a Colony



# Midway Atoll Colony

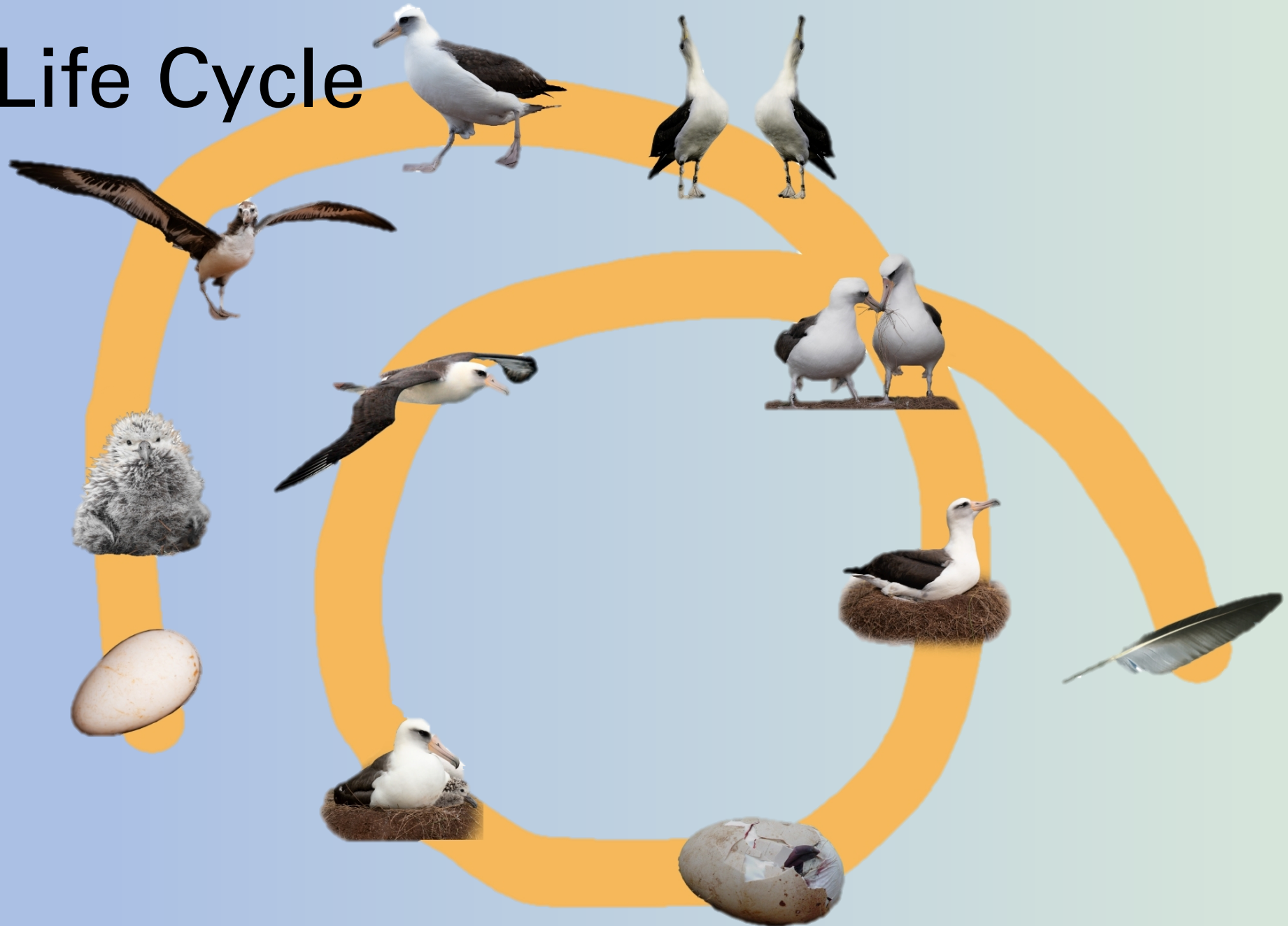






Wisdom with her mate on Midway Atoll

# Mōlī Life Cycle



# Lesson Two Learning Targets



I can explain how living in a **colony** while on land helps mōlī survive.



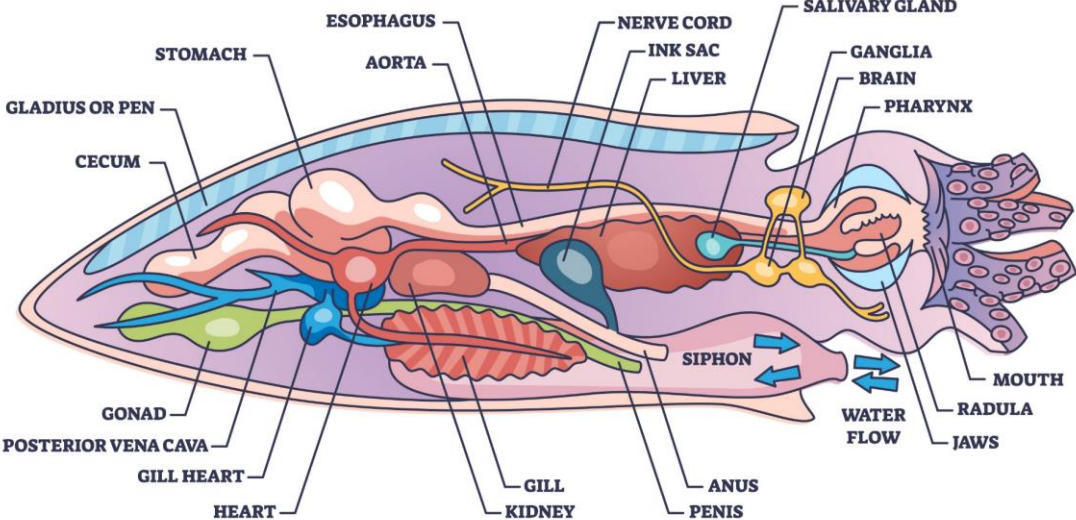
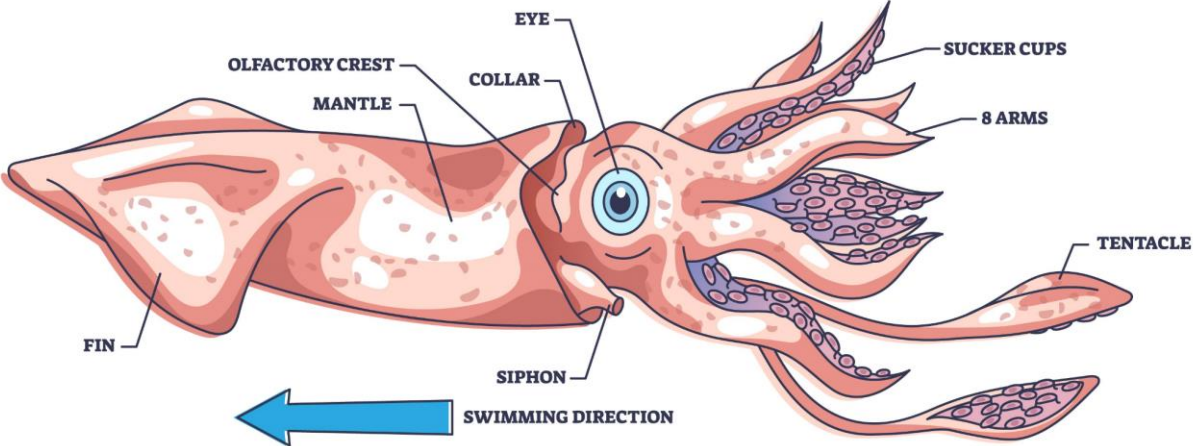
I can make a **scientific model** of the mōlī **life cycle** and describe what makes it unique from other animals.

# Lesson Three Learning Target



I can propose a solution to human-caused marine debris and make a claim about the merit of that solution.

# SQUID ANATOMY







# Lesson Three Learning Target



I can propose a solution to human-caused marine debris and make a claim about the merit of that solution.



# Lesson Four Learning Target



I can plot coordinates using latitude and longitude.



I can explain why seabirds migrate using tracking data.



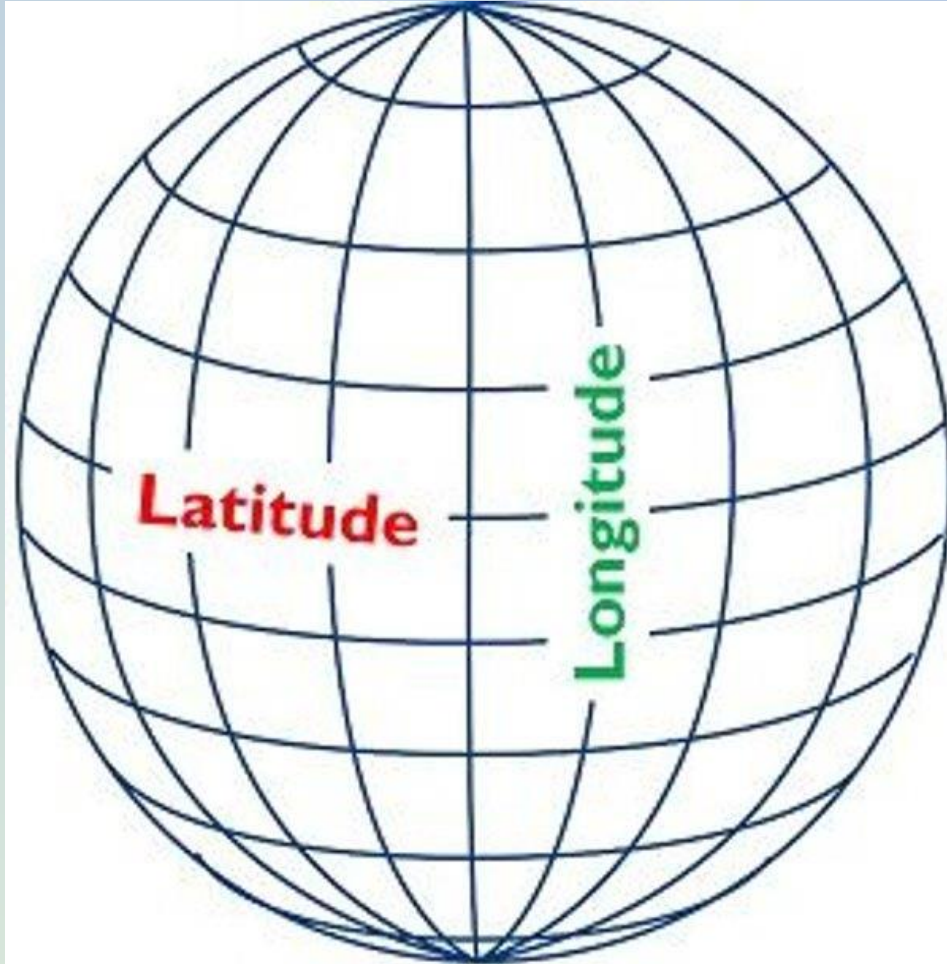
Banding an albatross on Midway Atoll

# Bird Banding on Midway Atoll



<https://flic.kr/p/DNqeg4>

# Geographic Coordinate System



**Latitude** runs *horizontally*, East-West

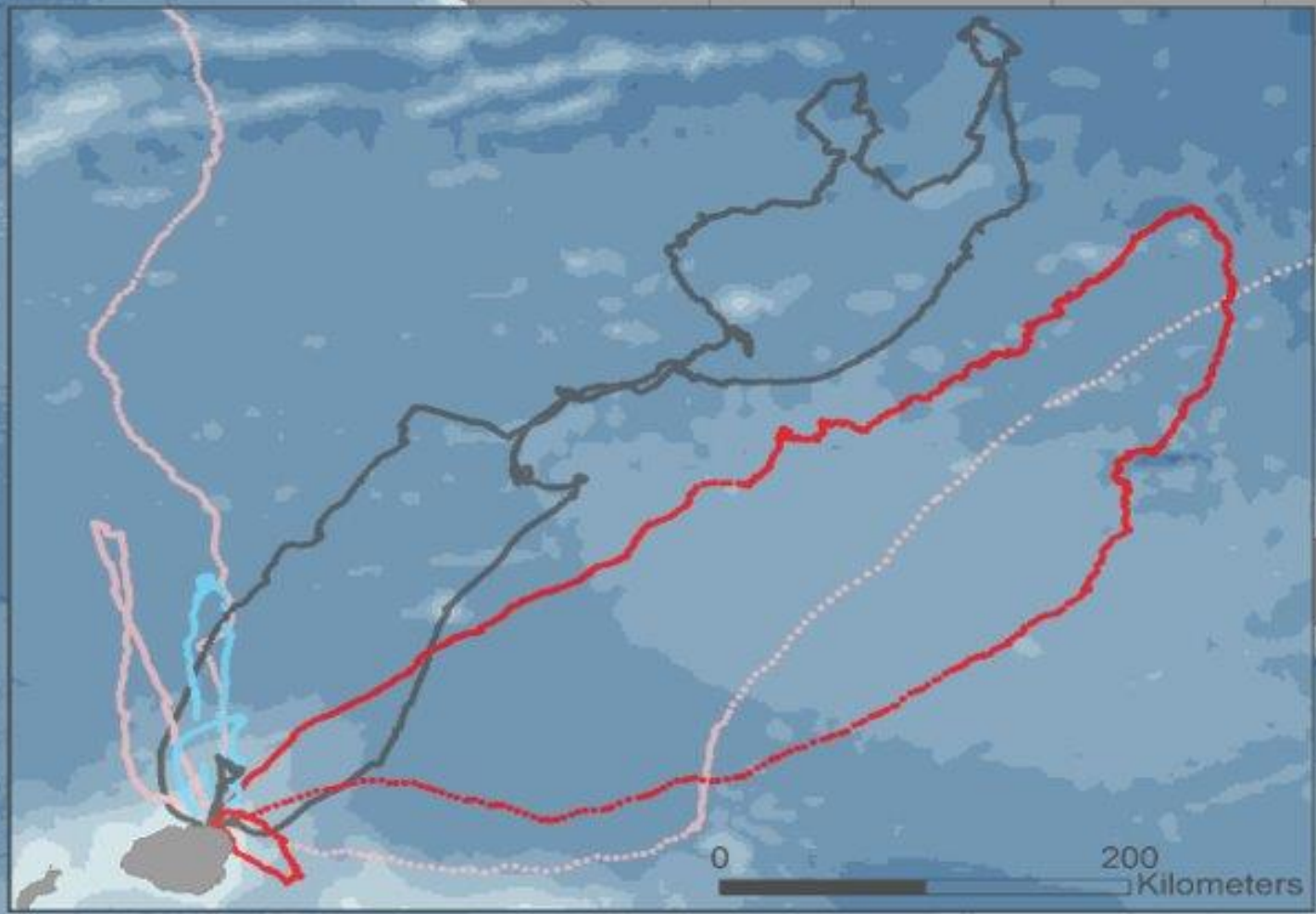
**Longitude** runs *vertically*, North-South

**Global Positioning System (GPS)** uses a satellite to locate things with these coordinates

Latitude and longitude are a system of lines used to describe the location of any place on Earth. Although these are only imaginary lines, they appear on maps and globes as if they actually existed.

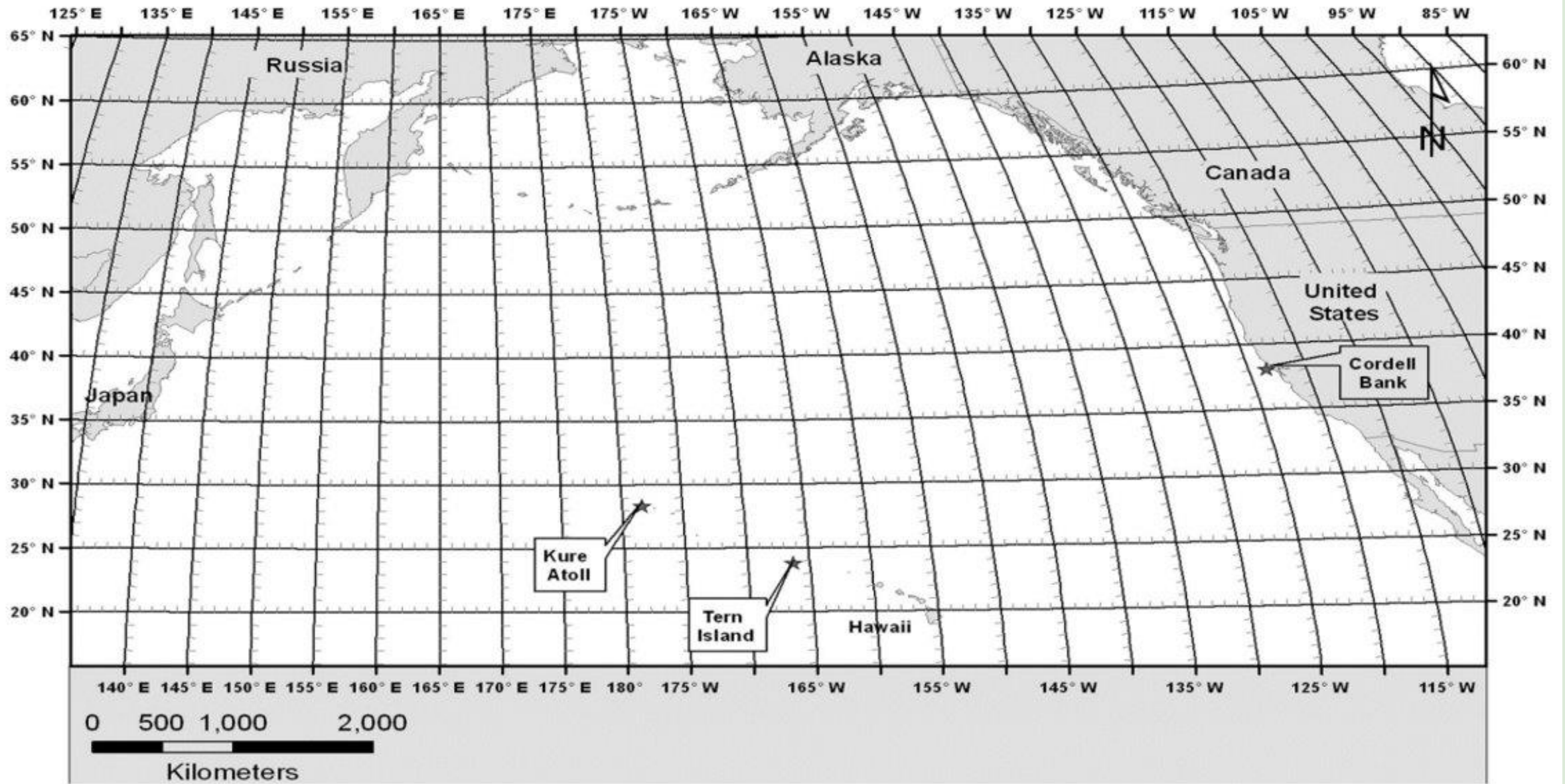


2,000 Kilometers



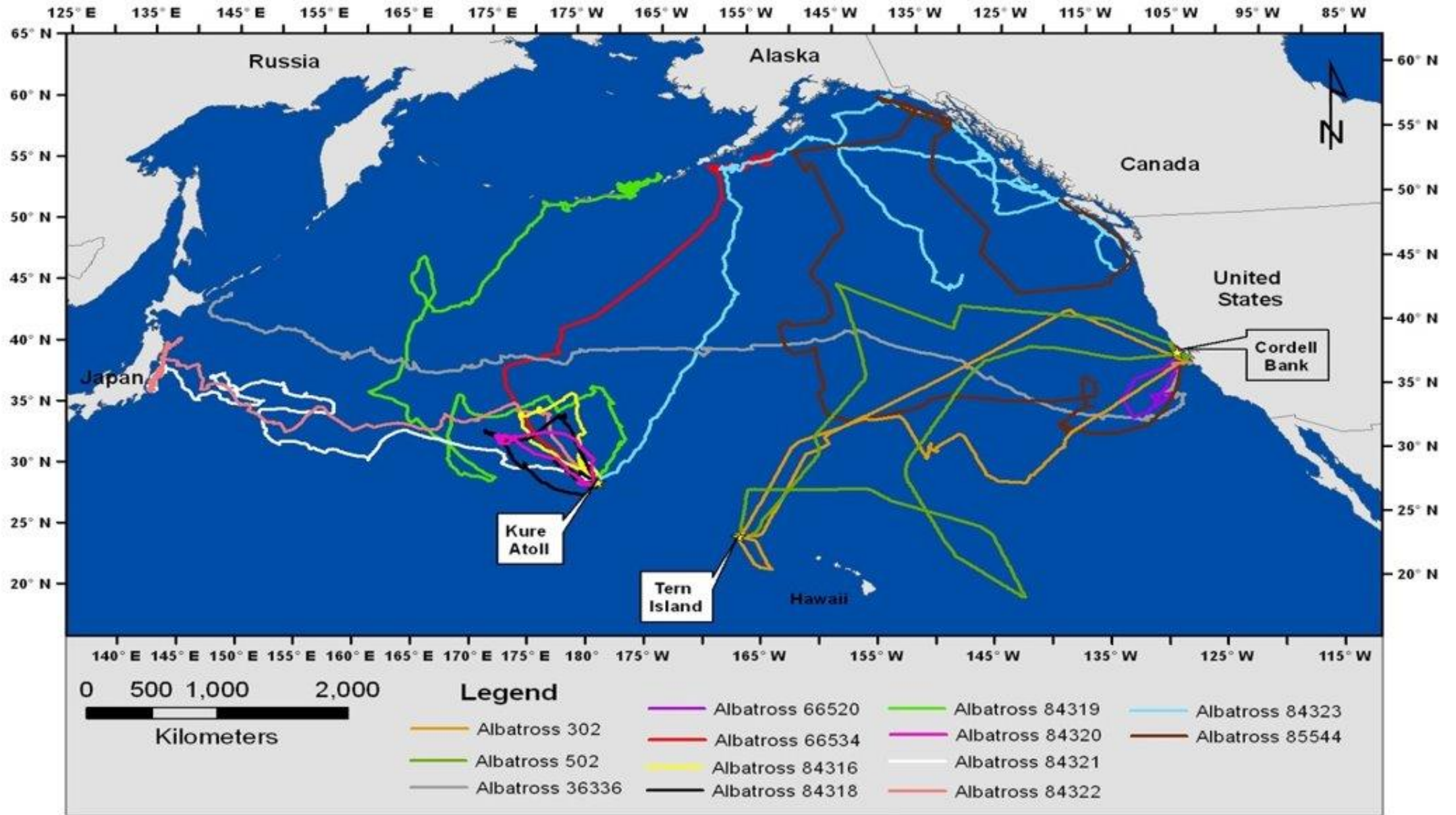
# Plotting GCS coordinates

1. Find the first latitude point and line up the yardstick (or ruler) horizontally across the map.
2. Place the second yardstick vertically along the longitude line.
3. Make a point at the intersection of the two yardsticks.
4. Label the point



Based on your tracking maps, what can you observe about the migration movement of these two birds?

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# Lesson Four Learning Target



I can plot coordinates using latitude and longitude.



I can explain why seabirds migrate using tracking data.