



# Humpback Whales

## The Basics

Grade 4 Unit 4



# Topics in this Presentation

**Humpback Classification**

**Humpback Identification (features)**

**Humpback Behaviors**

**Threats to Humpbacks**



# What is a humpback whale?

**Class: Mammal (just like us!)**

- Warm-blooded
- Produce milk
- Have hair
- Give birth to live young
- Breathe air



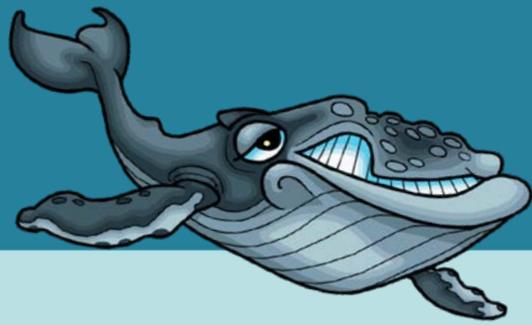


# What is a humpback whale?

**Order: Cetacea**

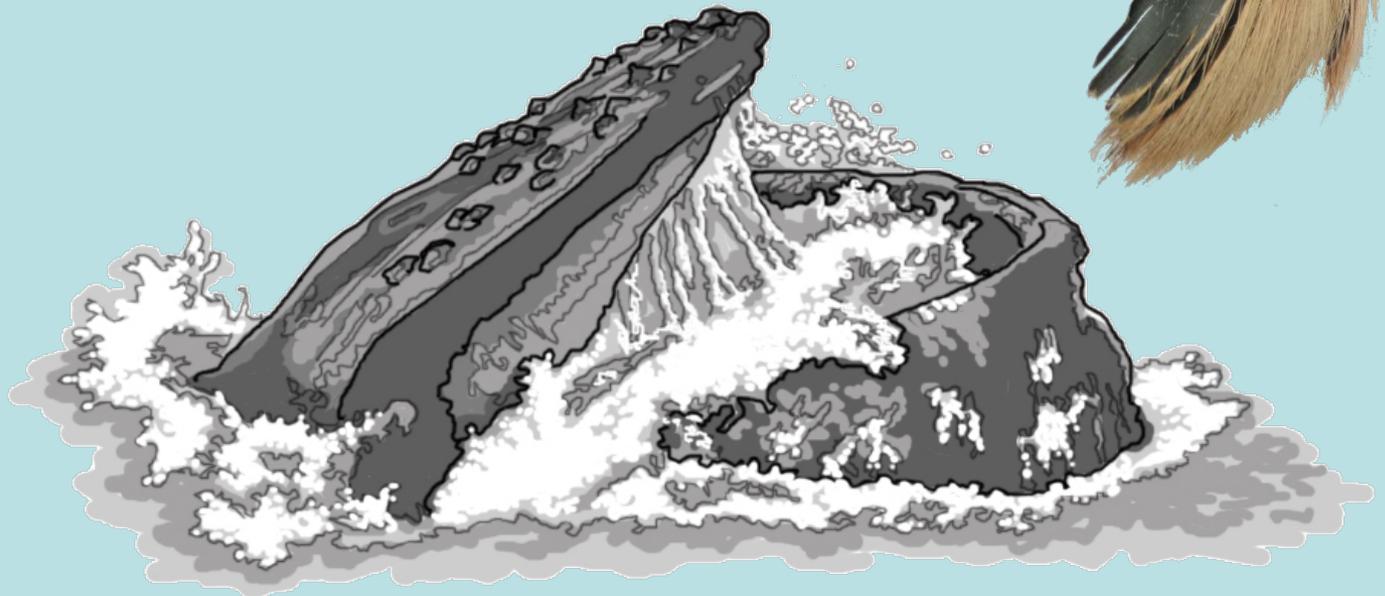
***whales, dolphins, and porpoises***





# What is a humpback whale?

**Suborder: Mysticete**  
*baleen instead of teeth*

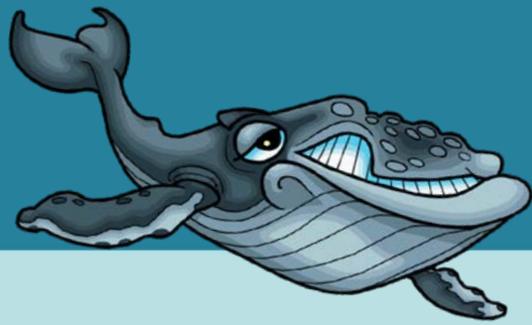




# What is a humpback whale?

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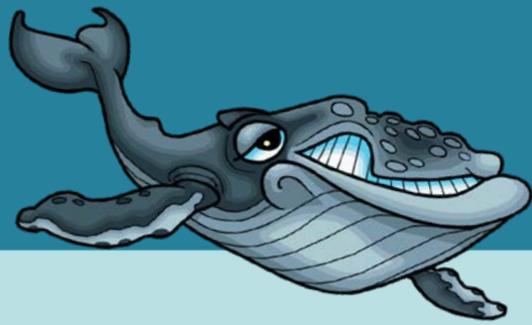




# What is a humpback whale?

**Suborder: Mysticete**  
***two nares (nostrils)***





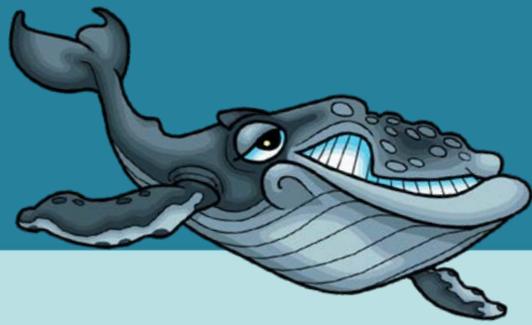
# What is a humpback whale?

**Suborder: Mysticete**  
***two nares (nostrils)***





# What is a humpback whale?



Family: **Balaenopteridae**  
*rorqual whale*





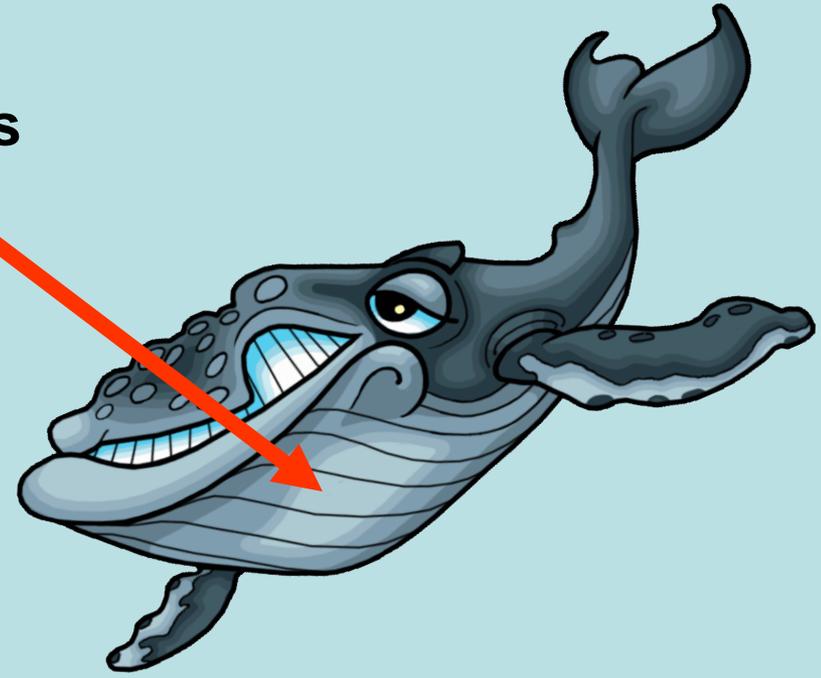
# What is a humpback whale?



**Family: Balaenopteridae**  
*rorqual whale*



pleats





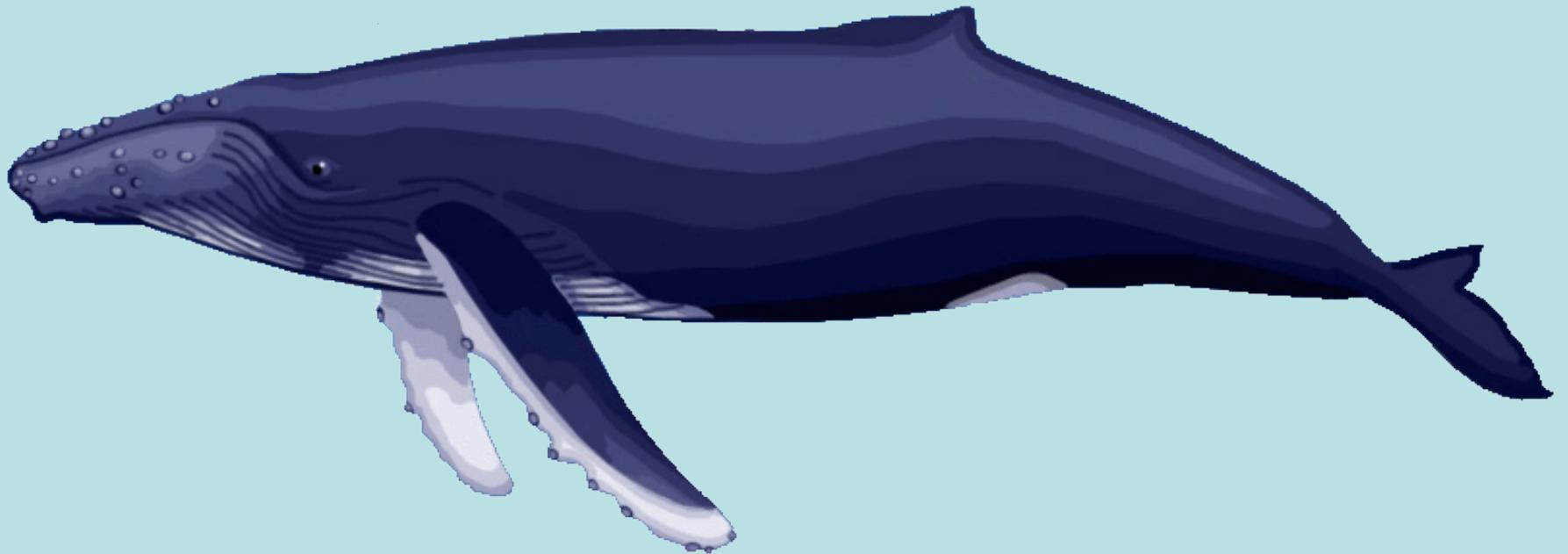
# What is a humpback whale?

*Megaptera novaeangliae*





# Humpback Whale Identification



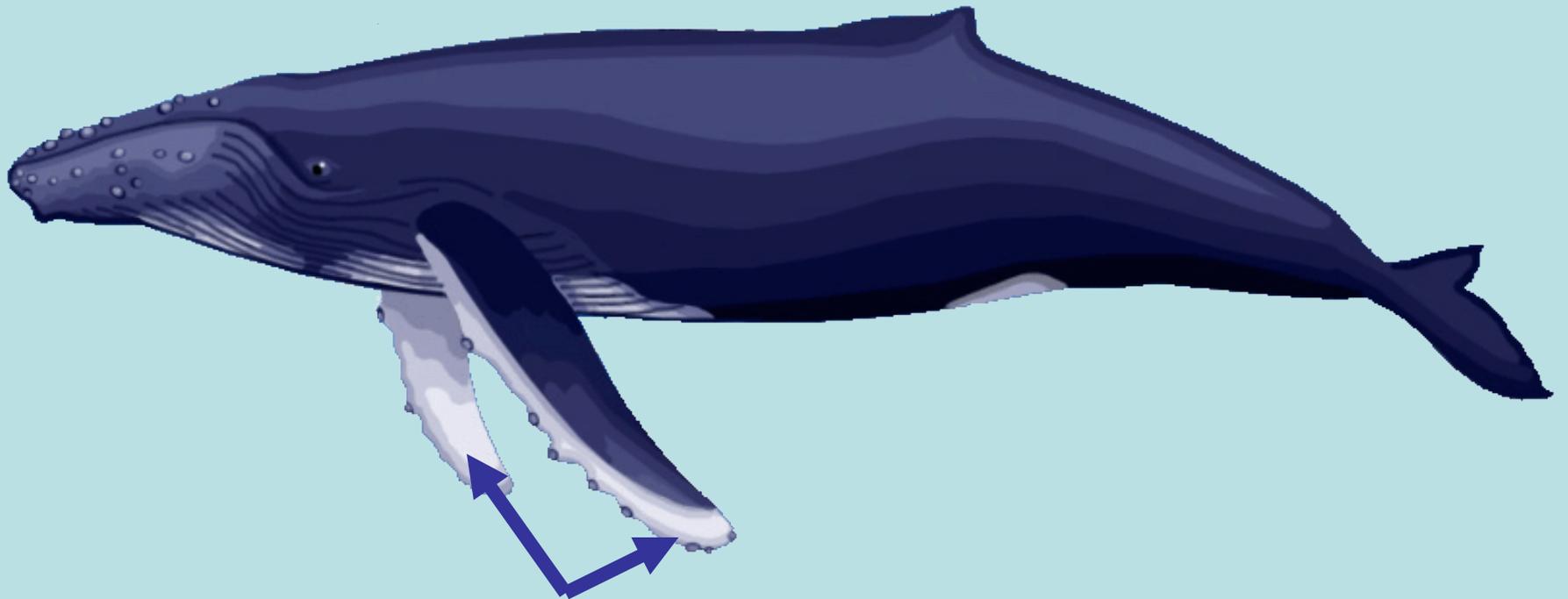
# Humpback Whale Identification

**dark back**



**light or dark belly**

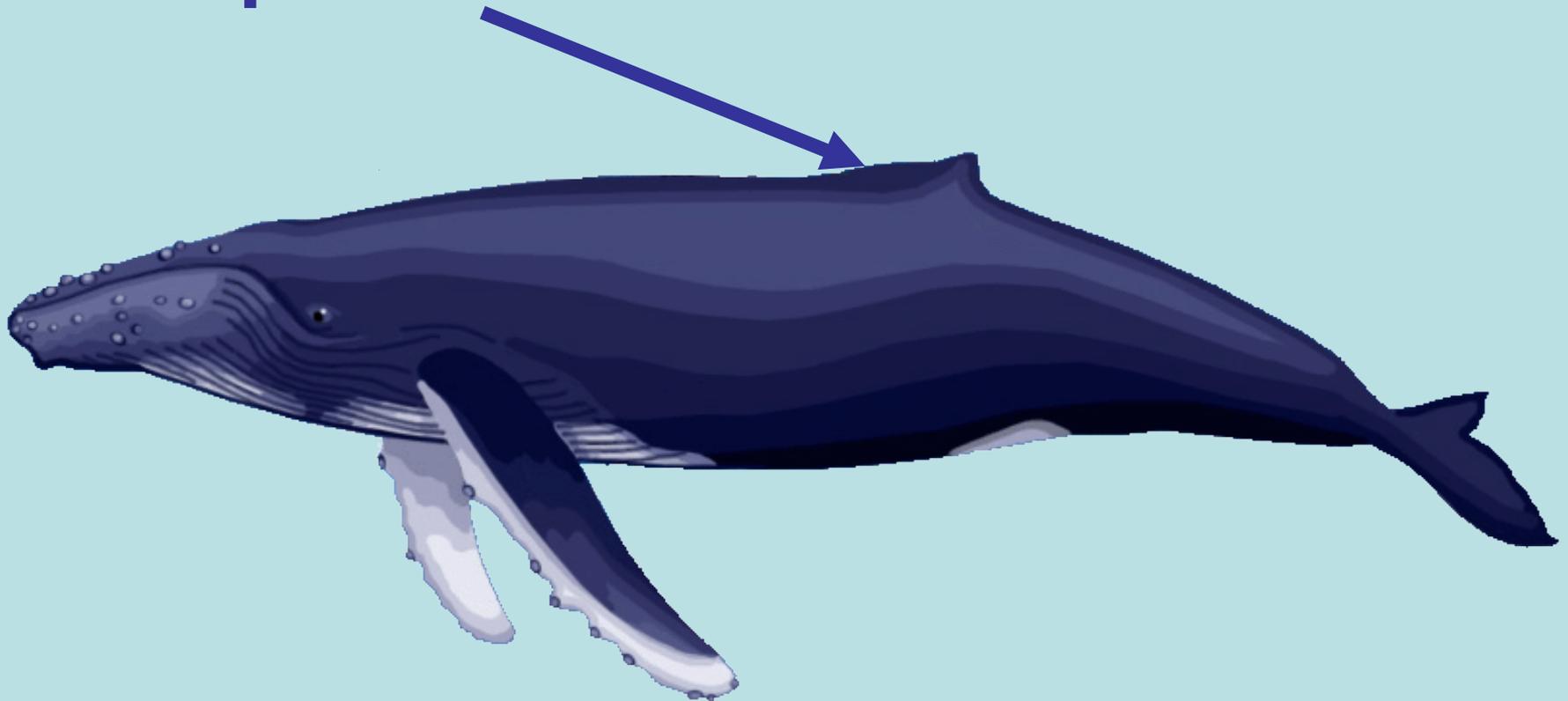
# Humpback Whale Identification



**extremely long pectoral flippers**

# Humpback Whale Identification

**hump in front of dorsal fin**





# Humpback Whale Identification



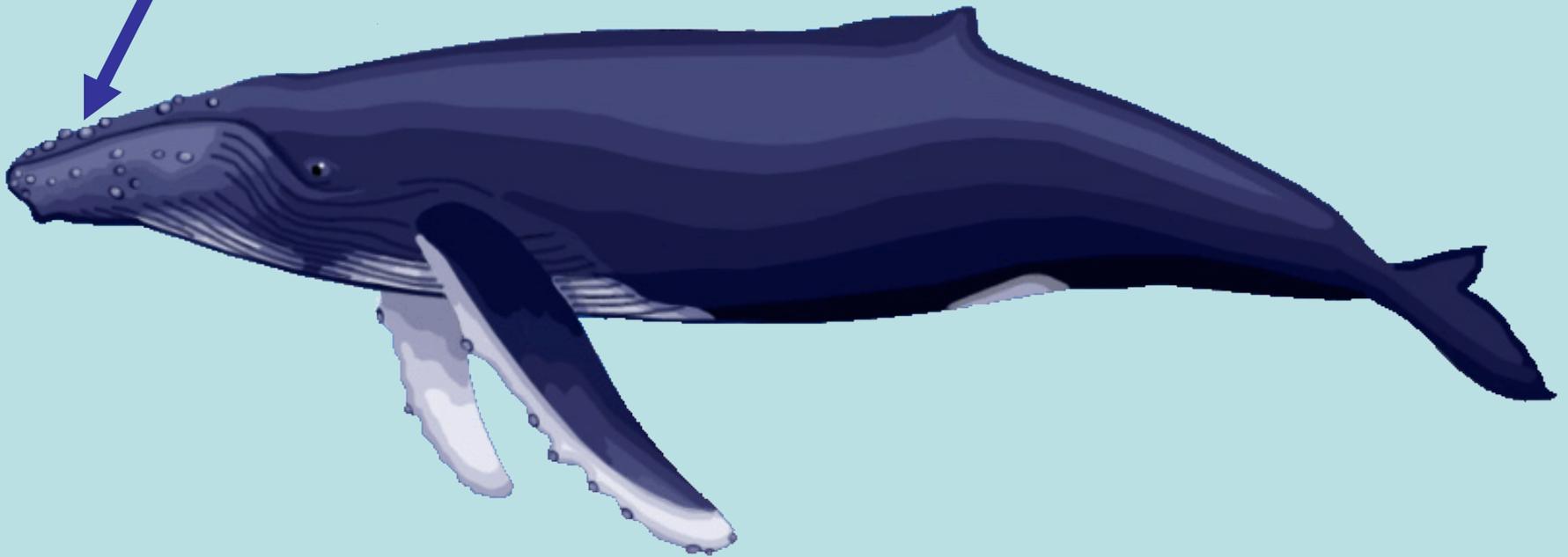
# Humpback Whale Identification



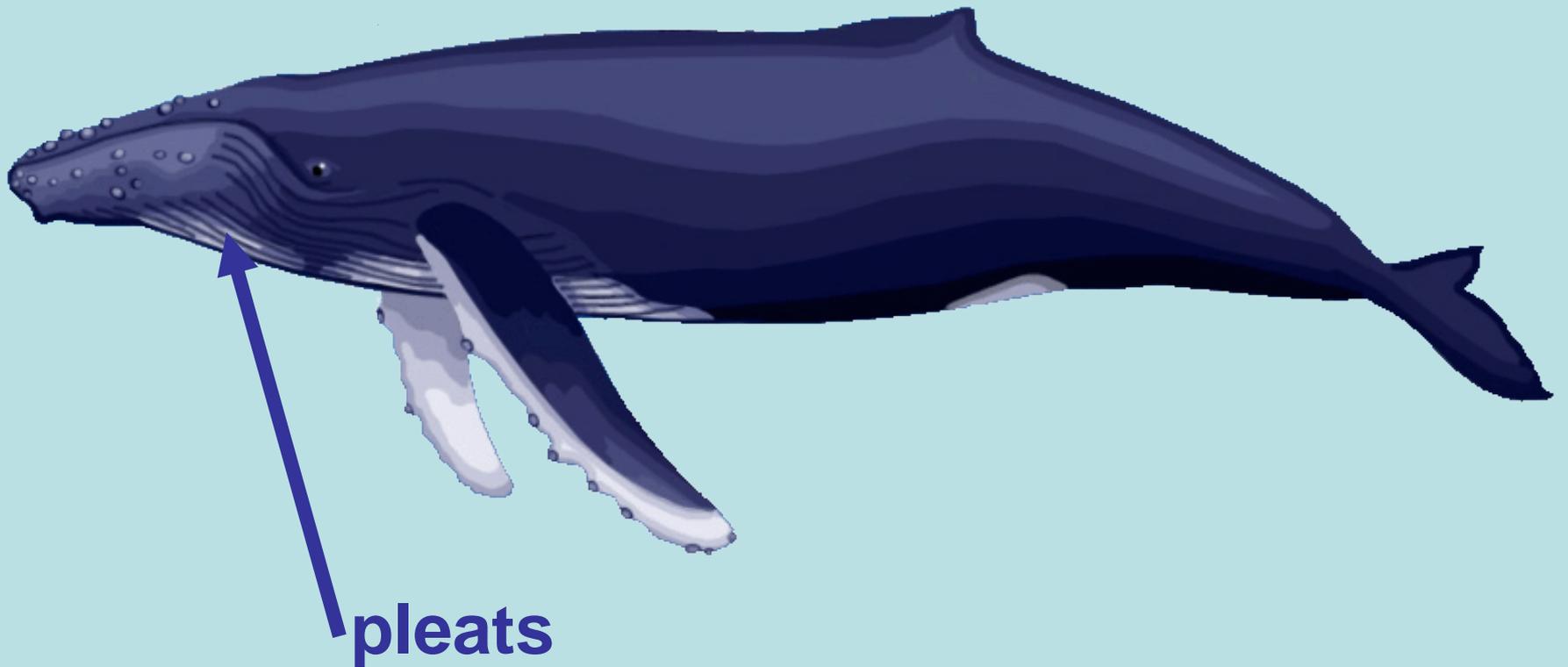
rostrum

# Humpback Whale Identification

tubercles on head and lower jaw



# Humpback Whale Identification



# Humpback Whale Identification



40 – 50 feet long!

# Humpback Whale Identification

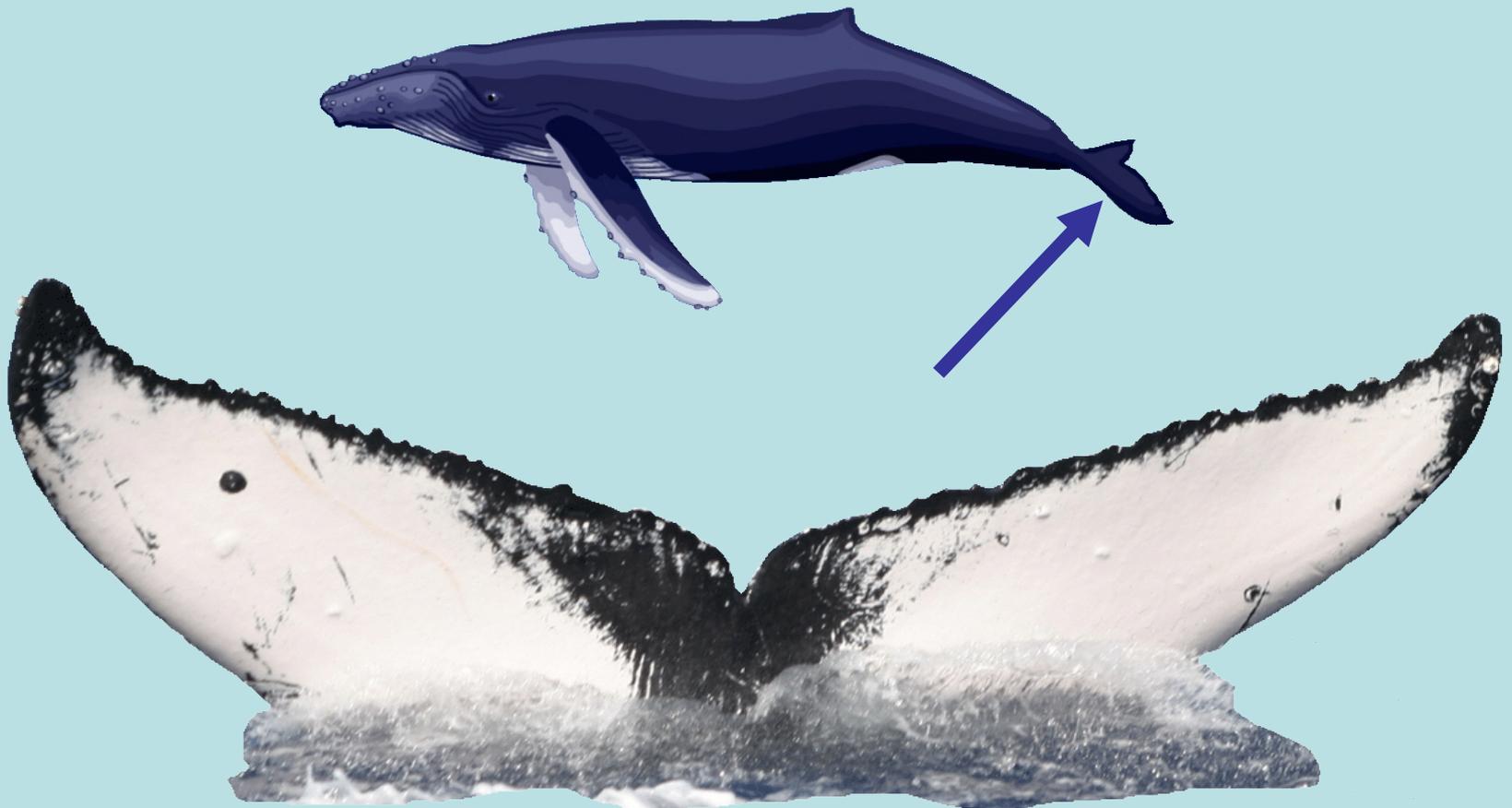
**40 – 50 tons!**



**40 – 50 feet long!**

# Humpback Whale Identification

flukes with black and white patterns



# Humpback Whale Identification

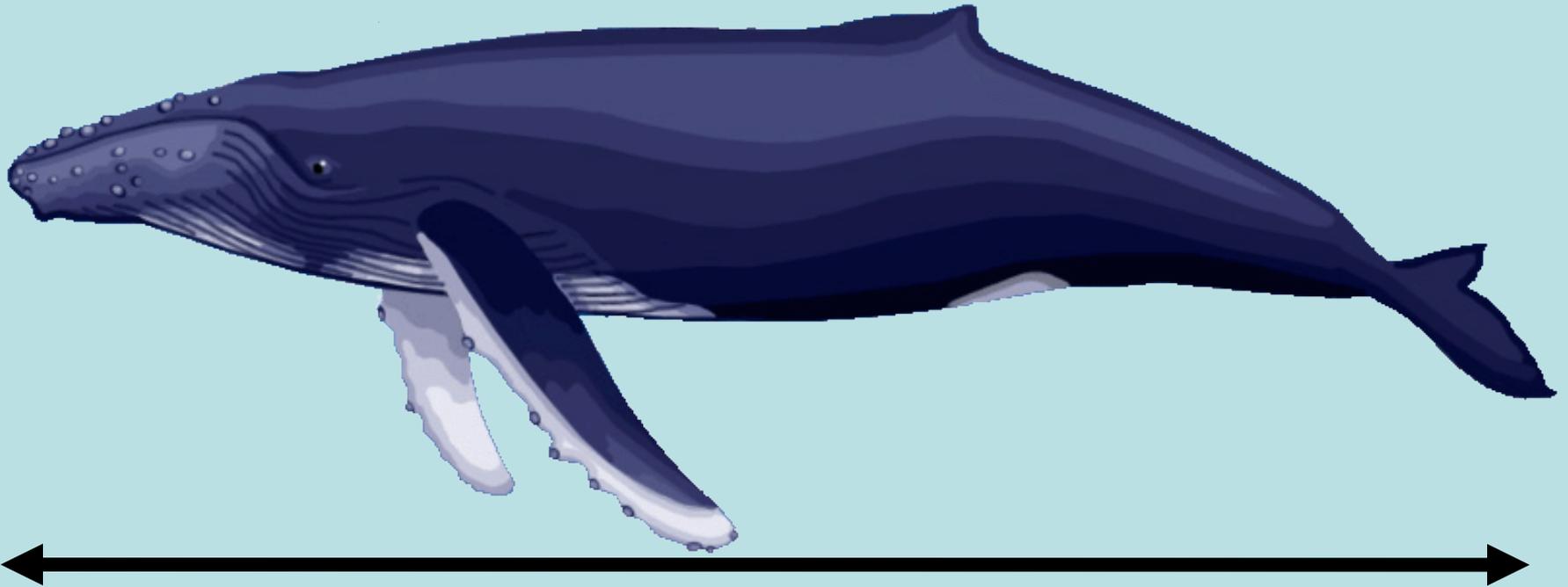
Let's Review...



# Humpback Whale Identification

## Let's Review...

Length:



# Humpback Whale Identification

## Let's Review...

Length:

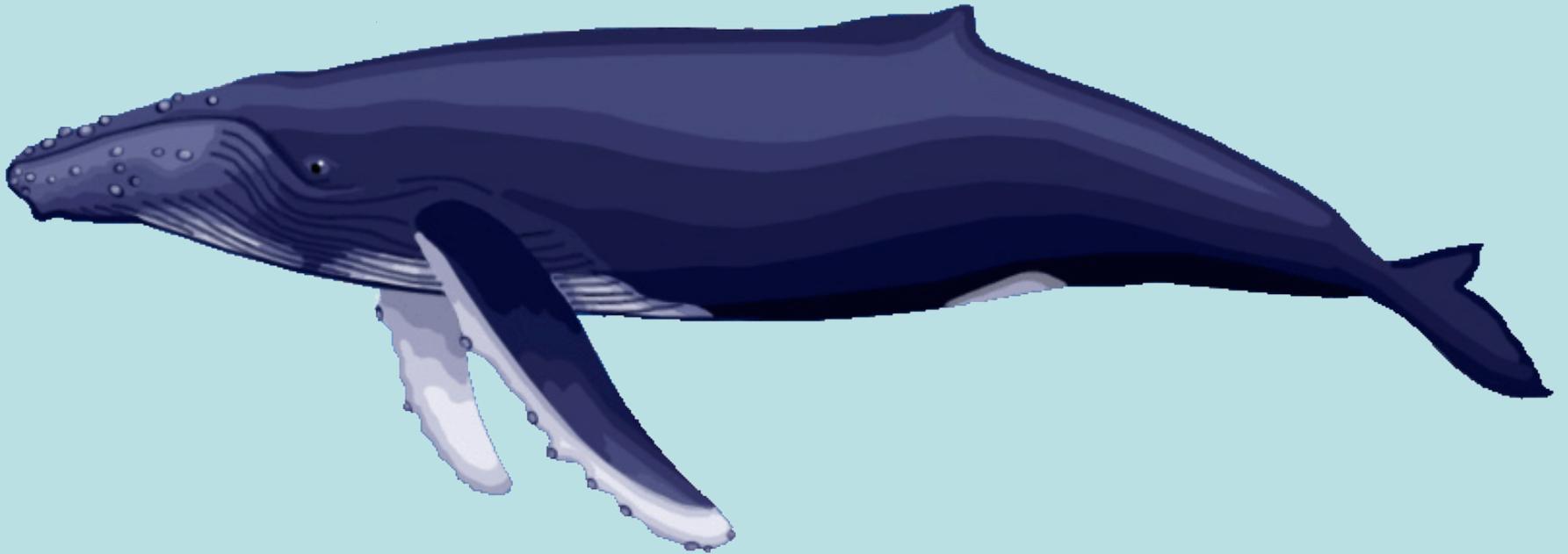


40-50 feet long

# Humpback Whale Identification

## Let's Review...

**Adult Weight:**



# Humpback Whale Identification

## Let's Review...

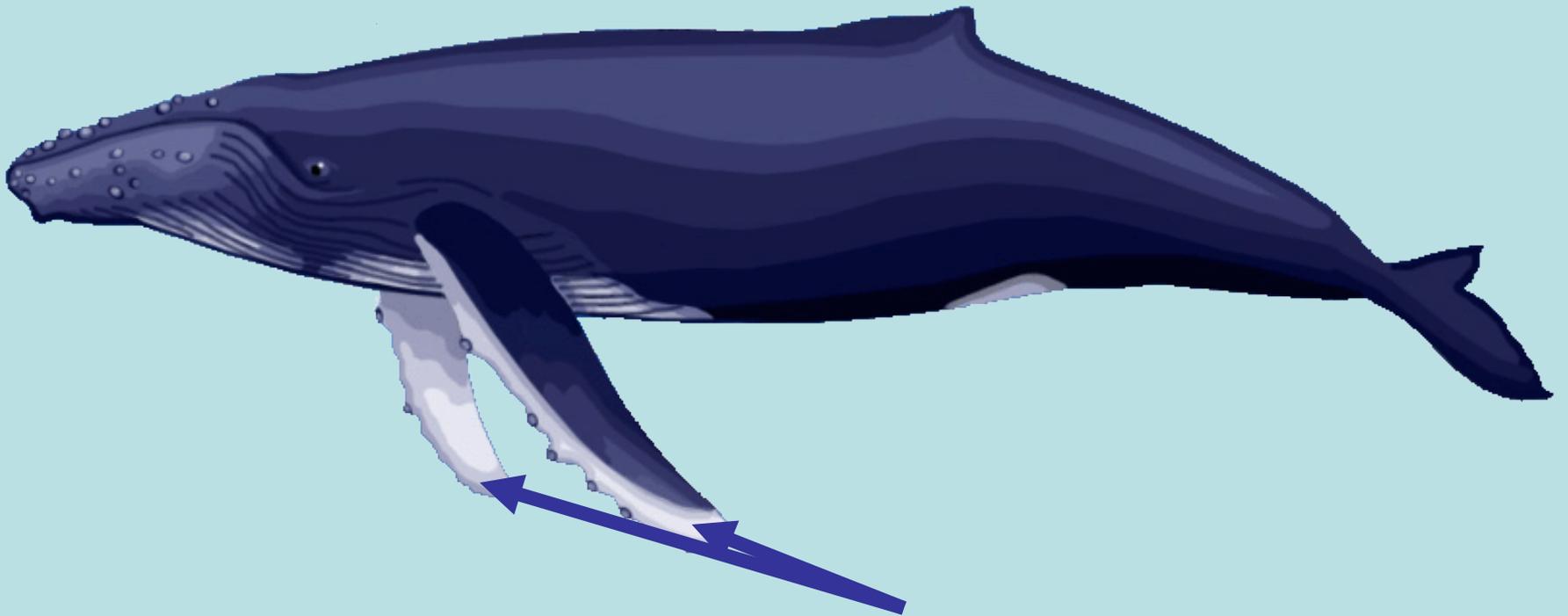
**Adult Weight:**



**40-50 tons**

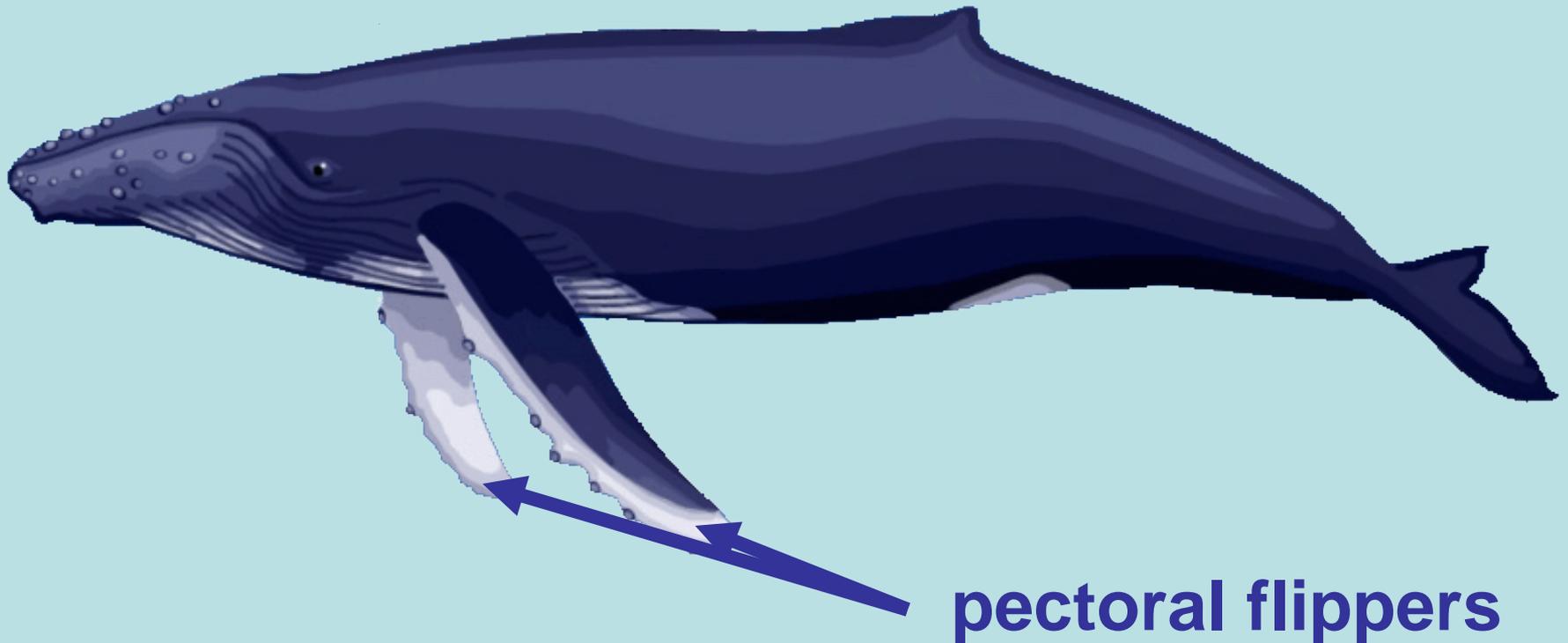
# Humpback Whale Identification

Let's Review...



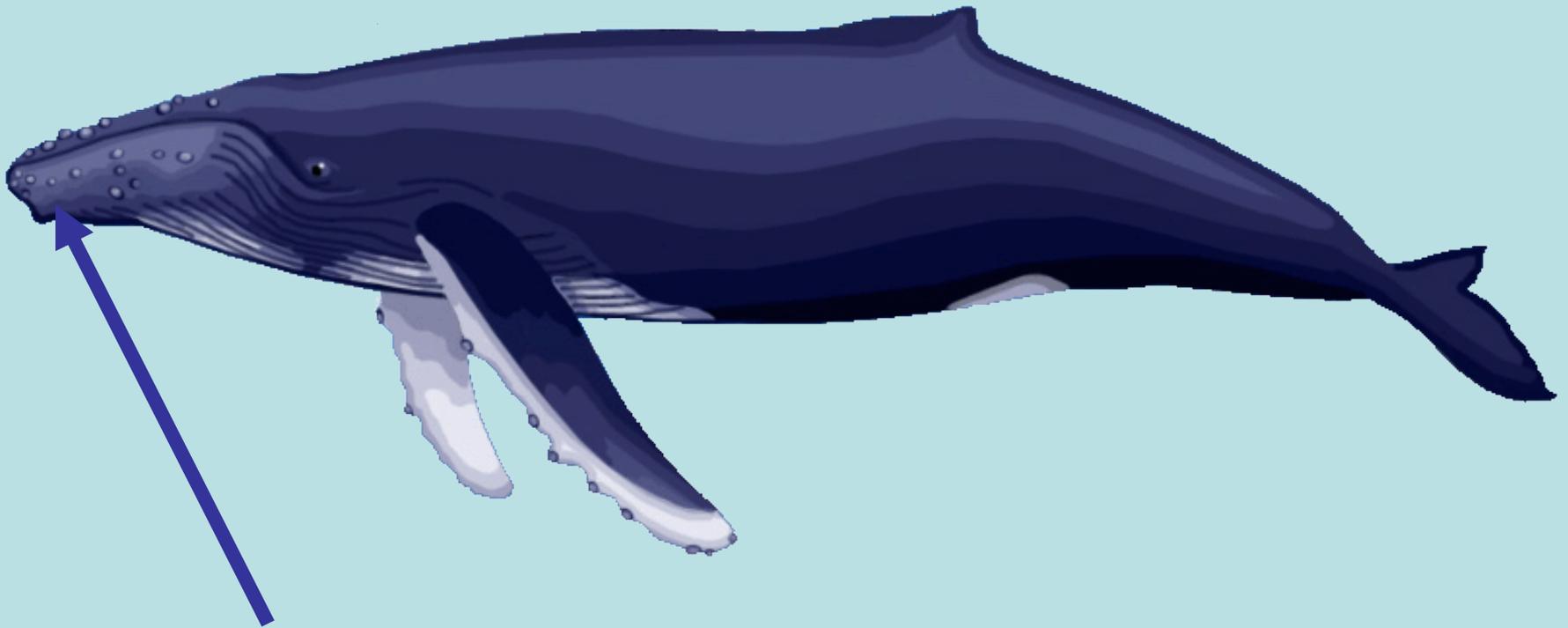
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Let's Review...



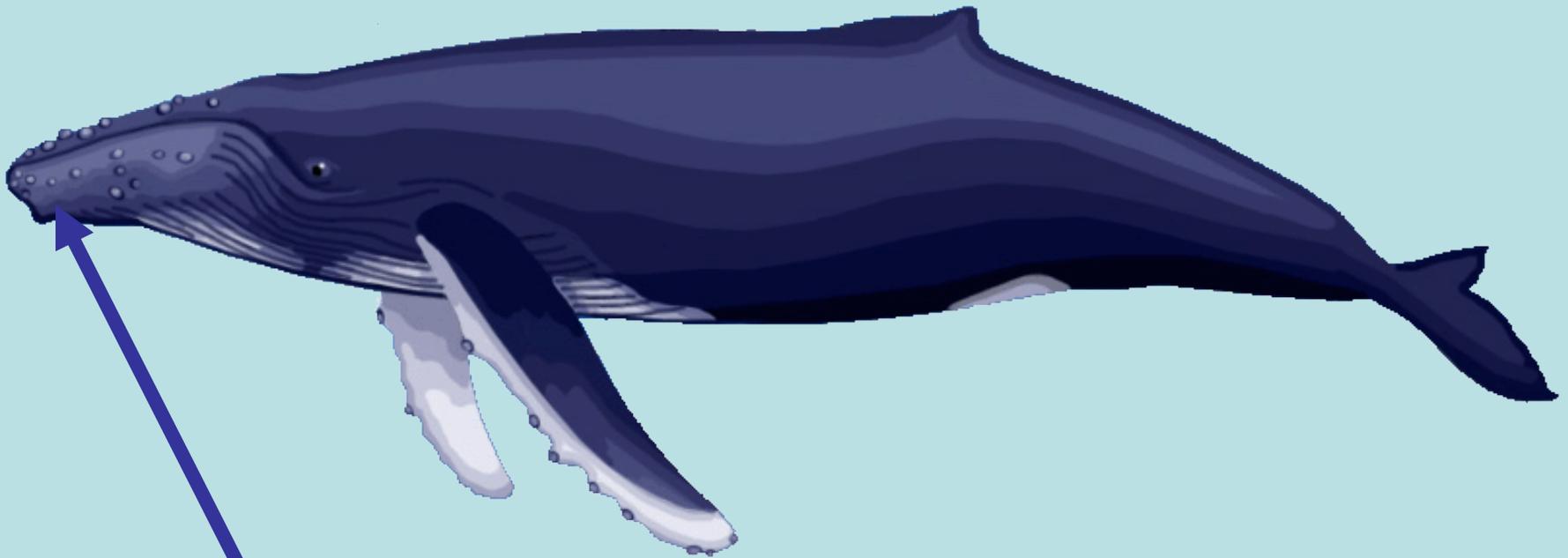
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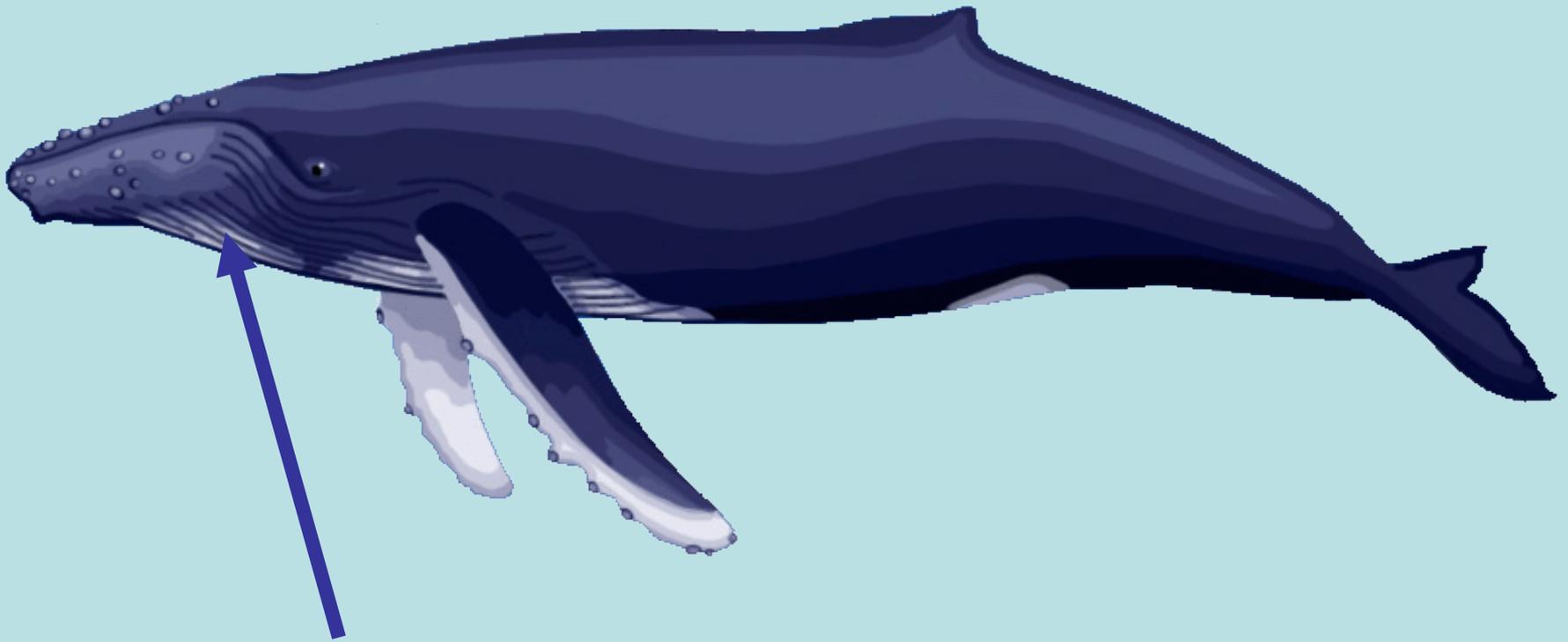
Let's Review...



rostrum

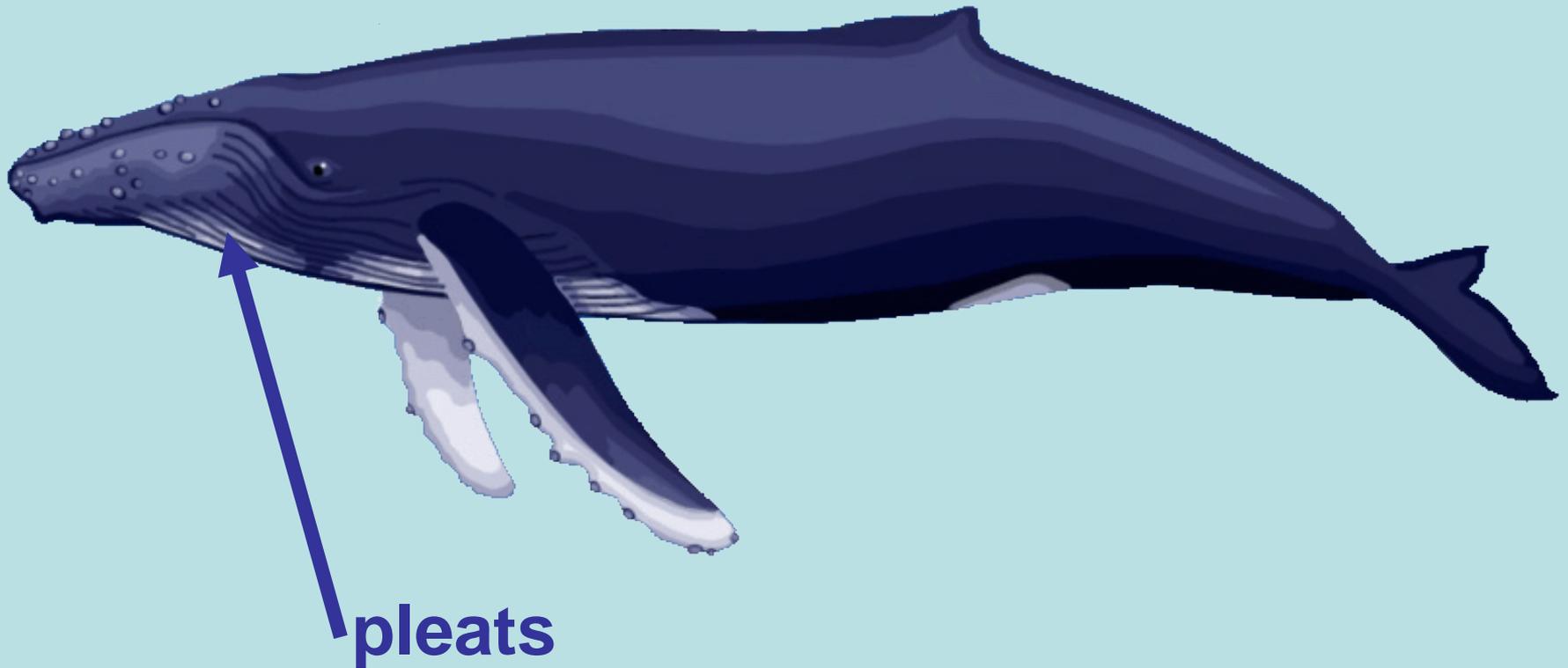
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Let's Review...



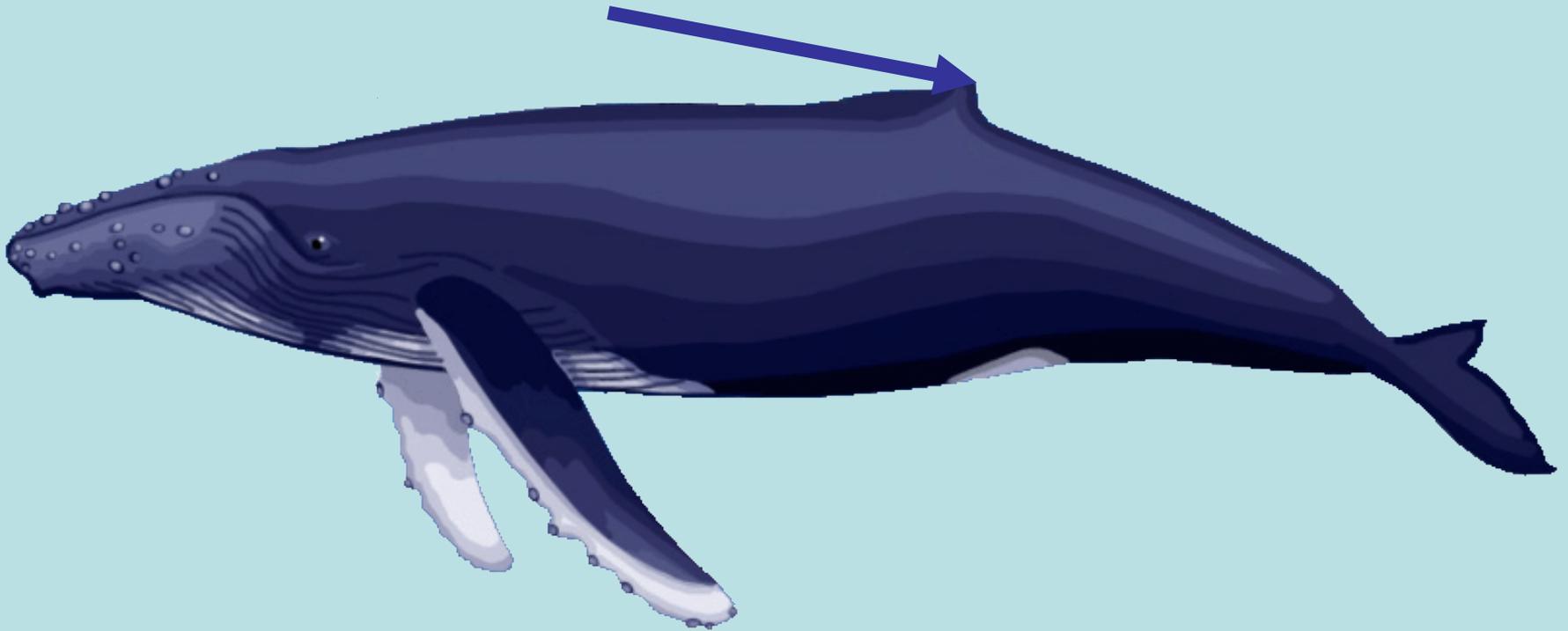
# Humpback Whale Identification

Let's Review...



# Humpback Whale Identification

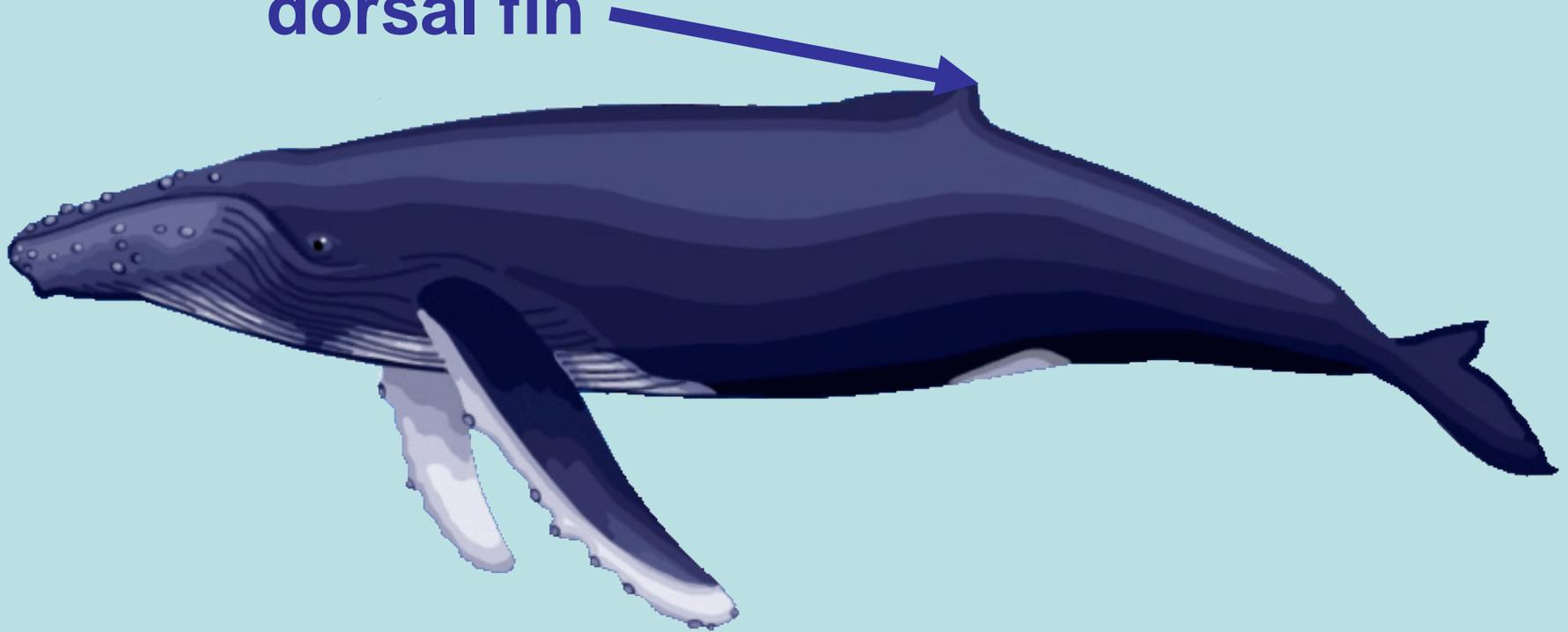
Let's Review...



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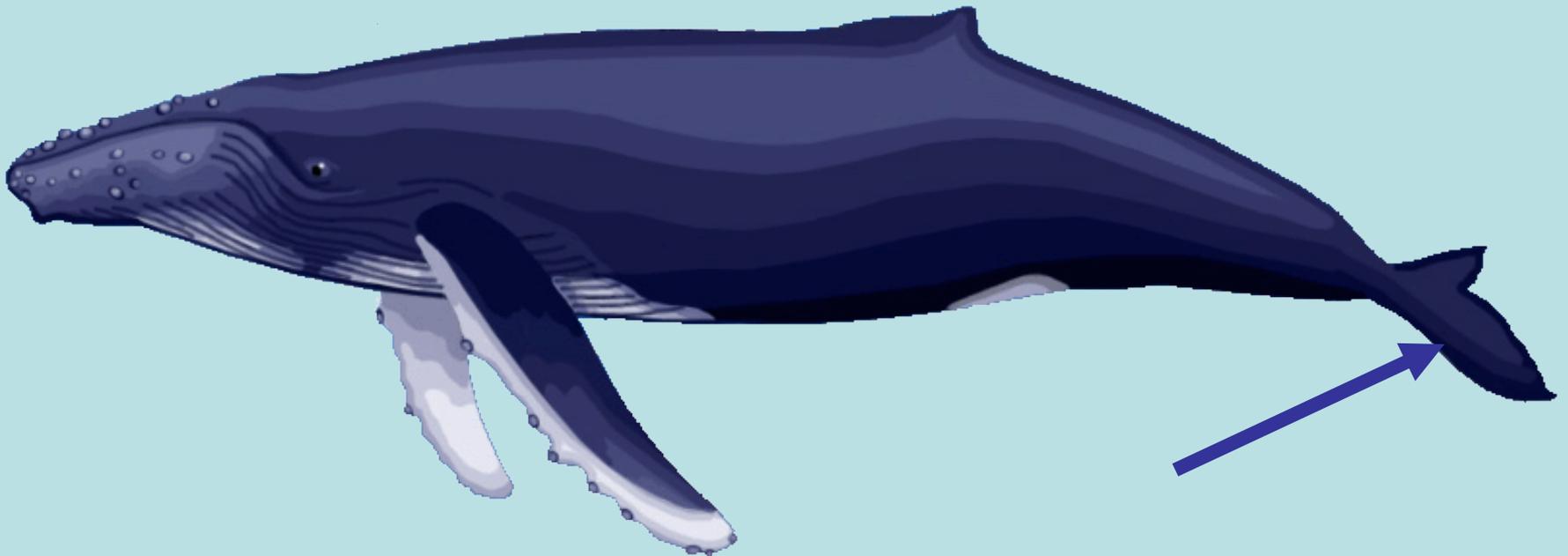
## Let's Review...

dorsal fin



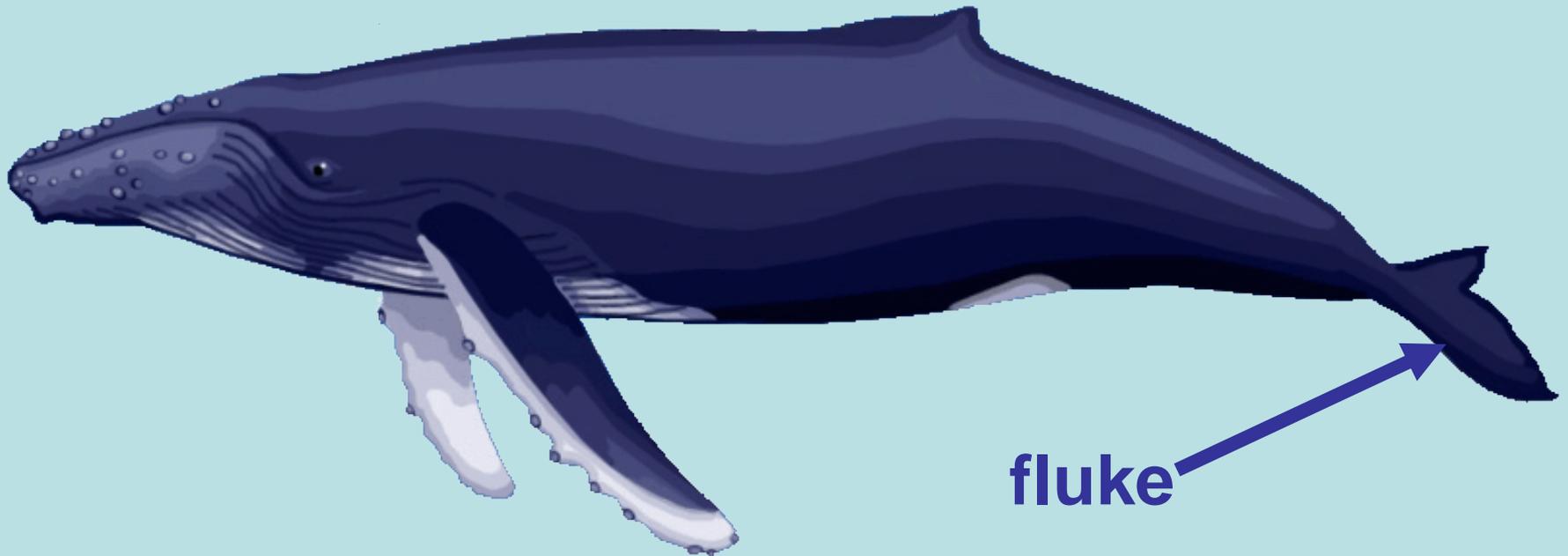
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Let's Review...



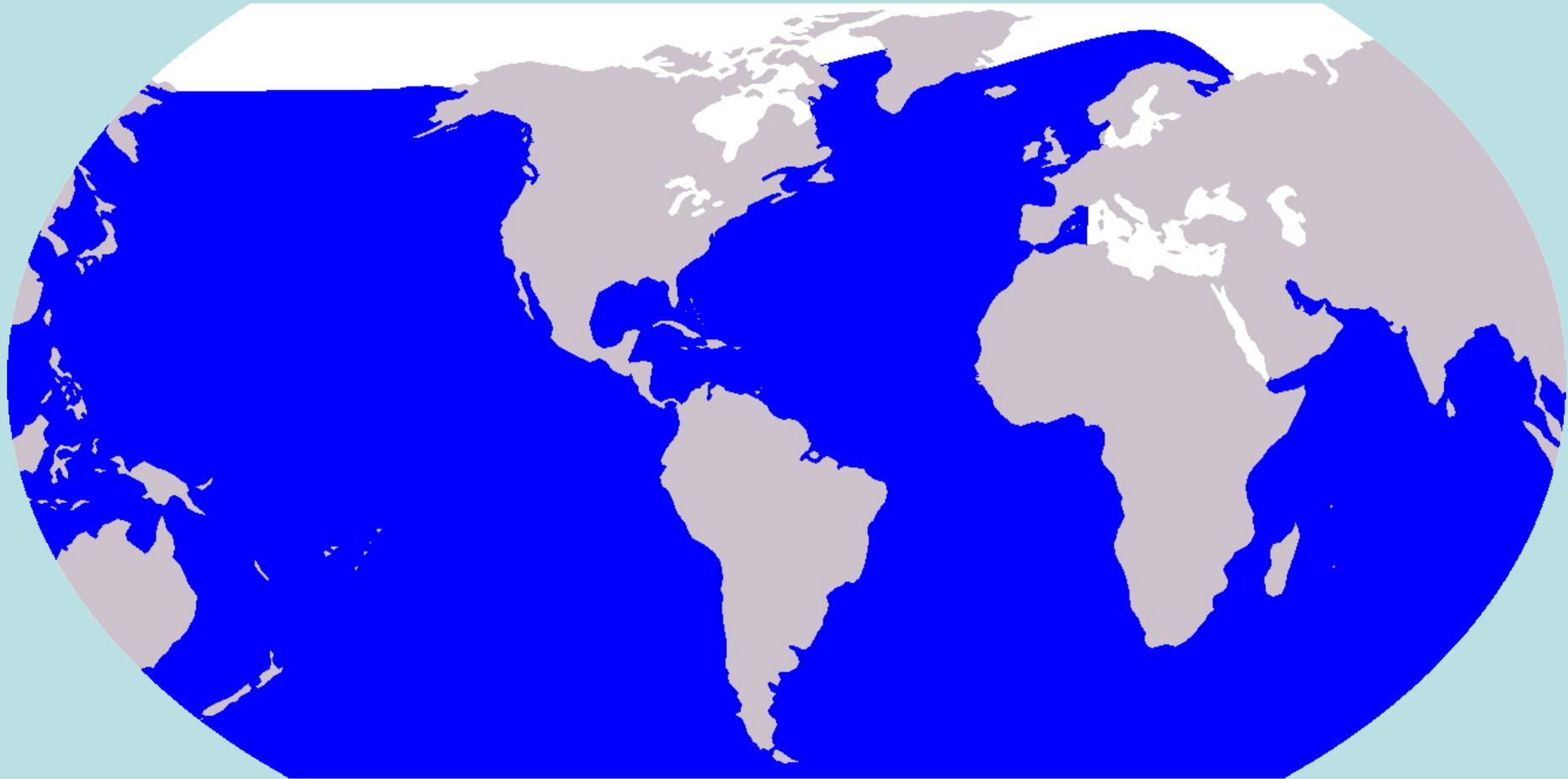
# Humpback Whale Identification

Let's Review...



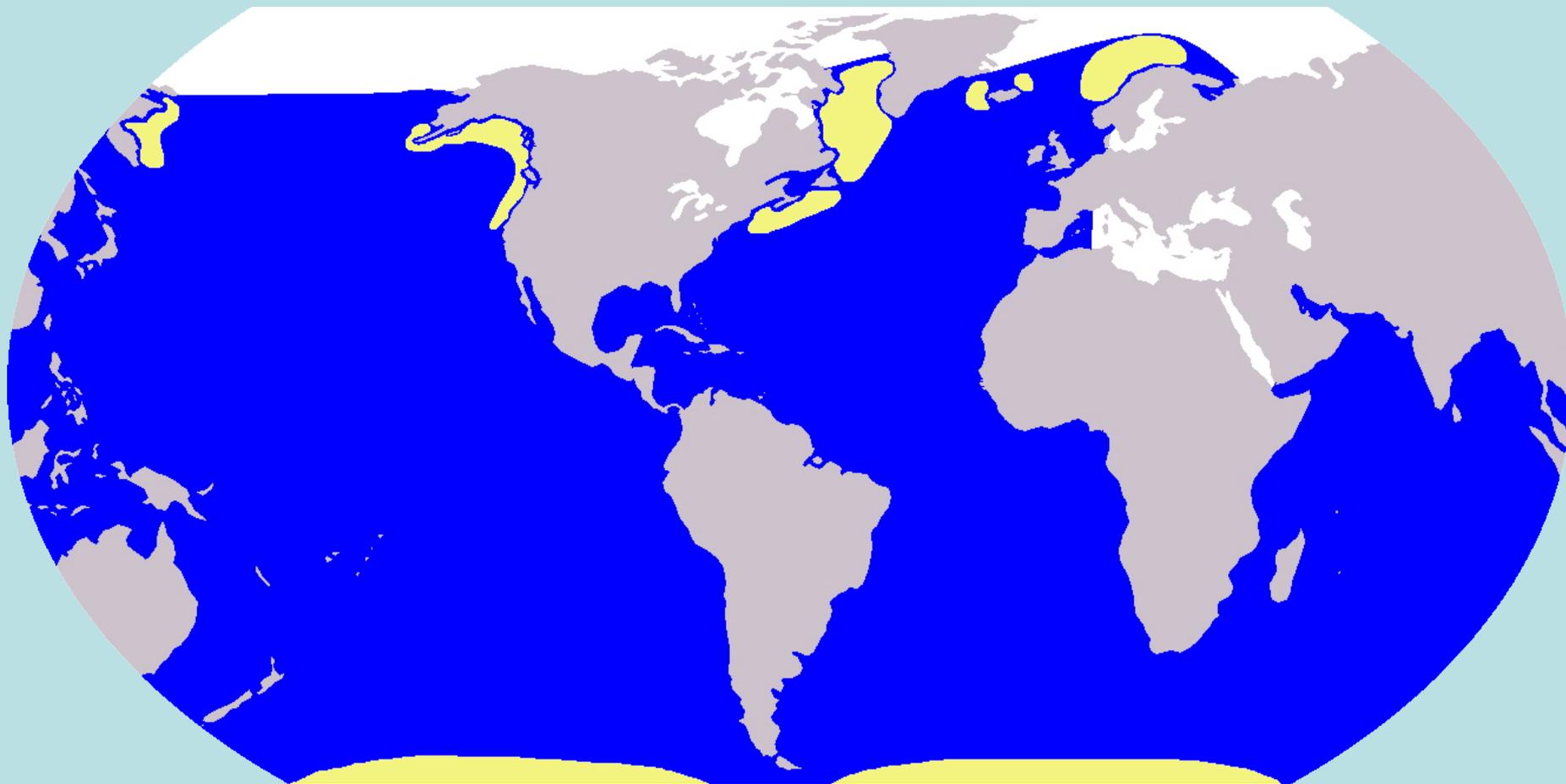


# Humpbacks are Worldwide

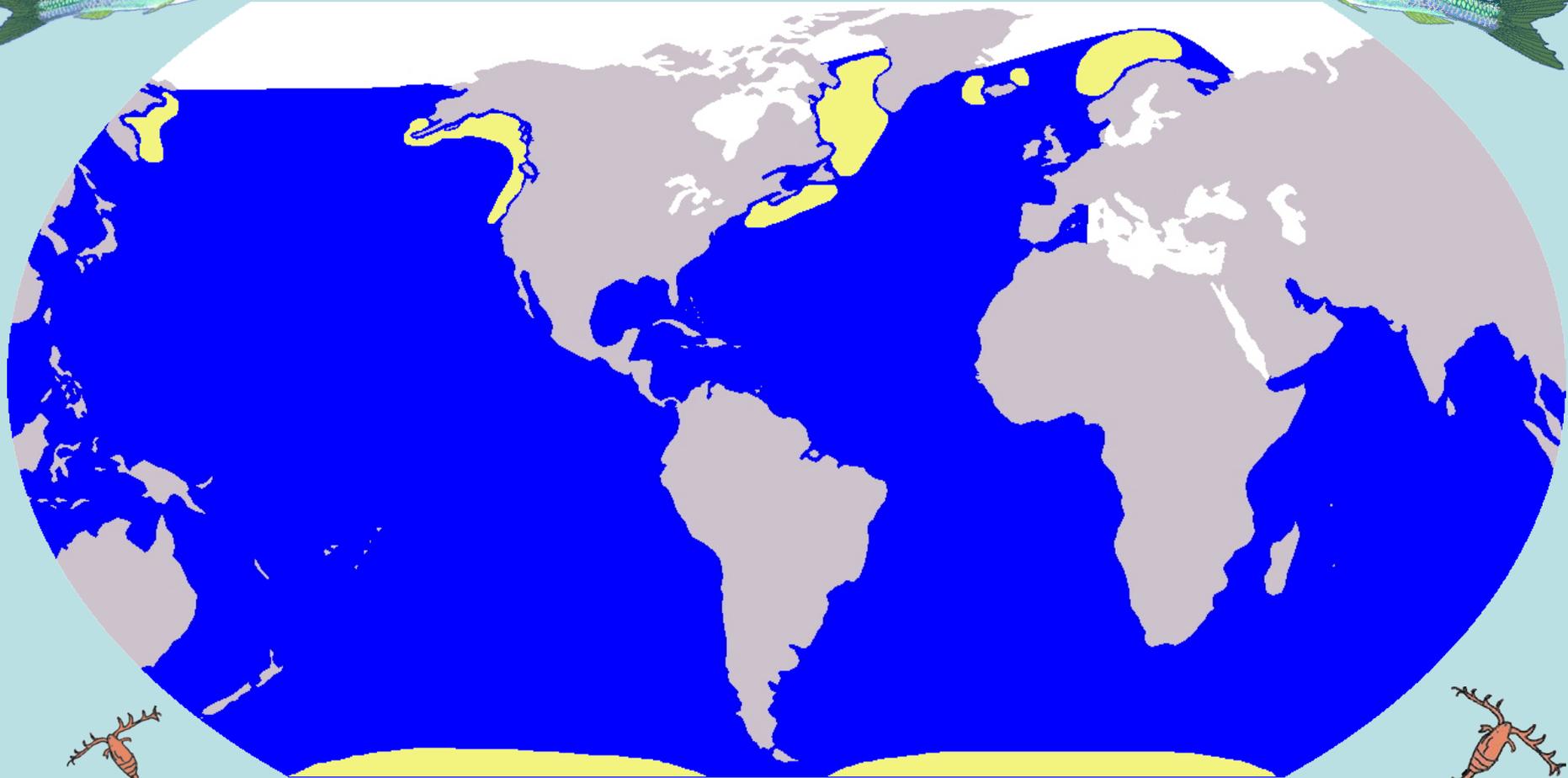
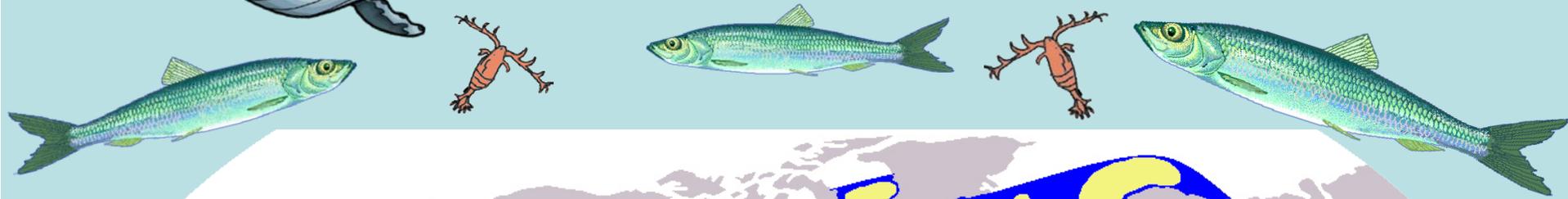




# Humpbacks are Migratory

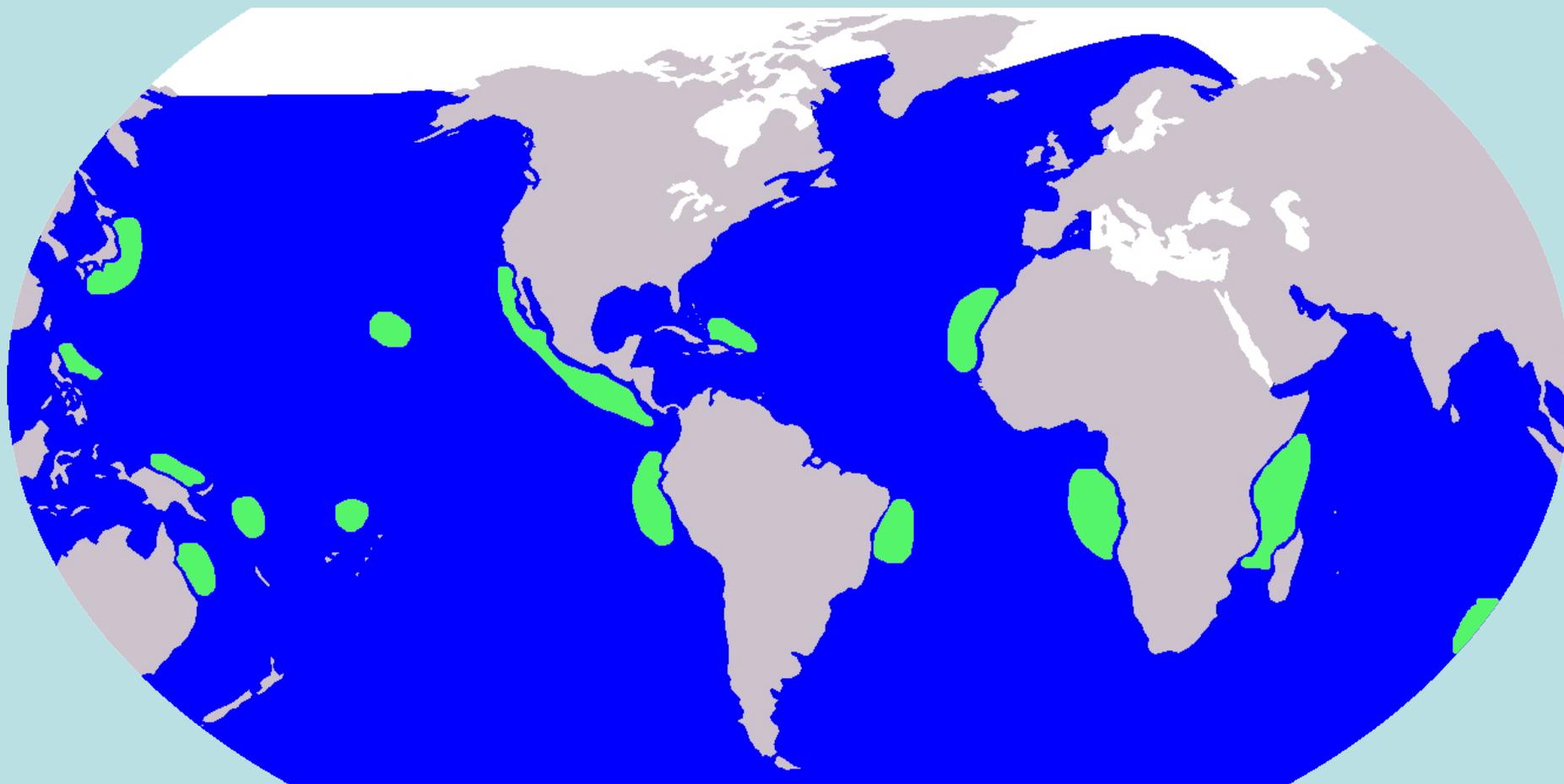


# Humpbacks are Migratory

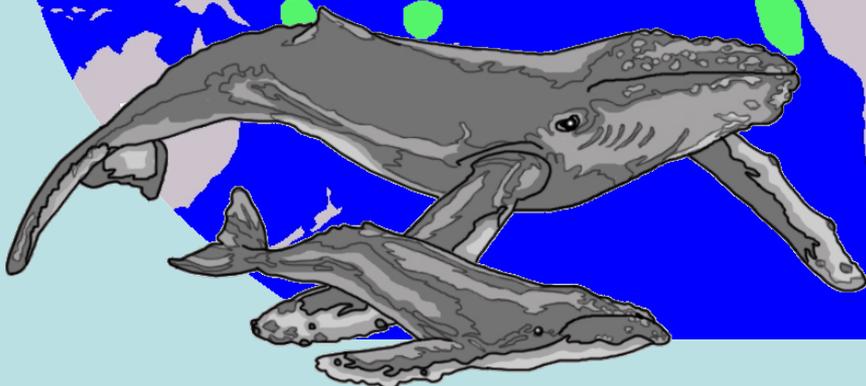
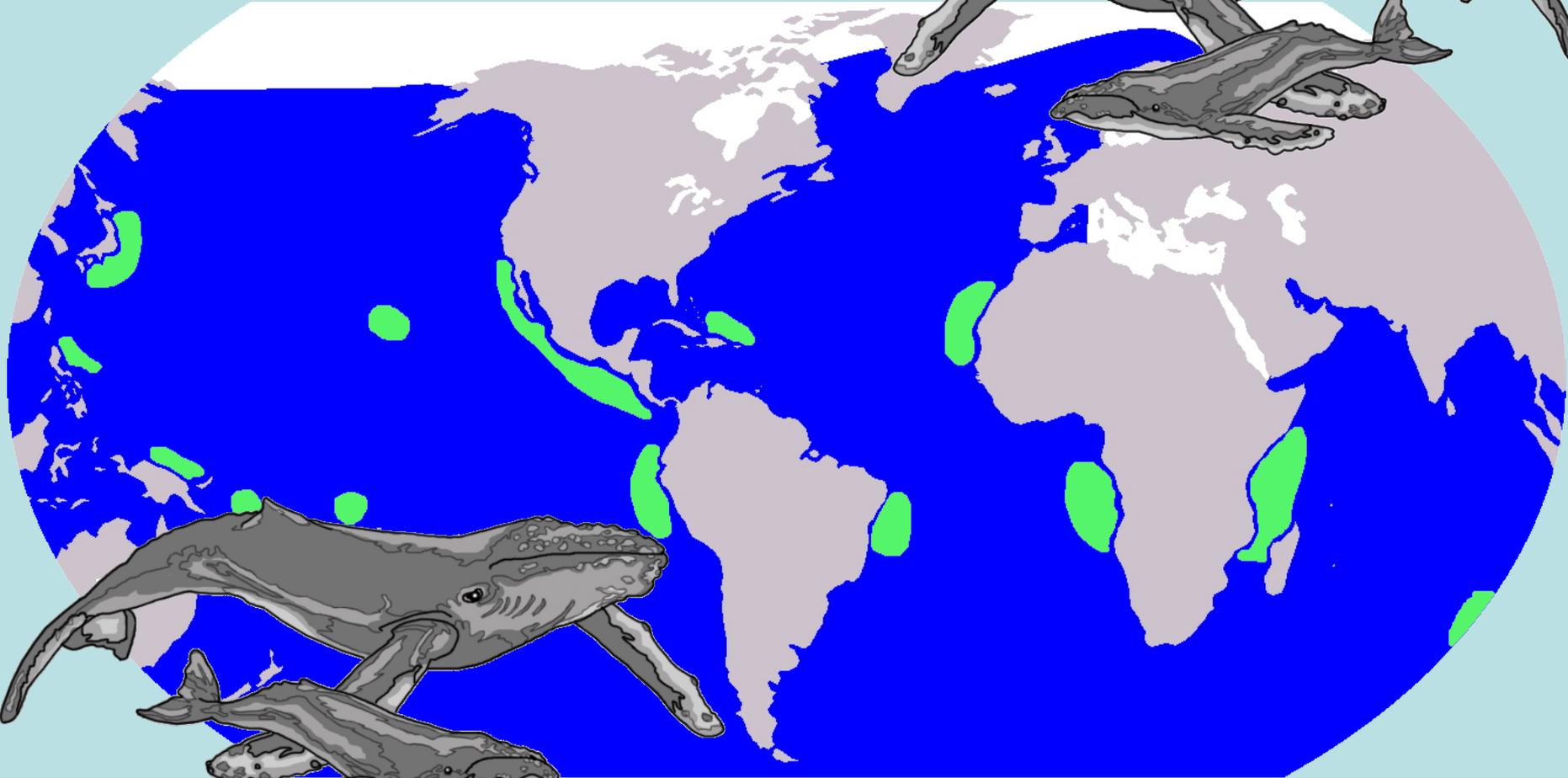
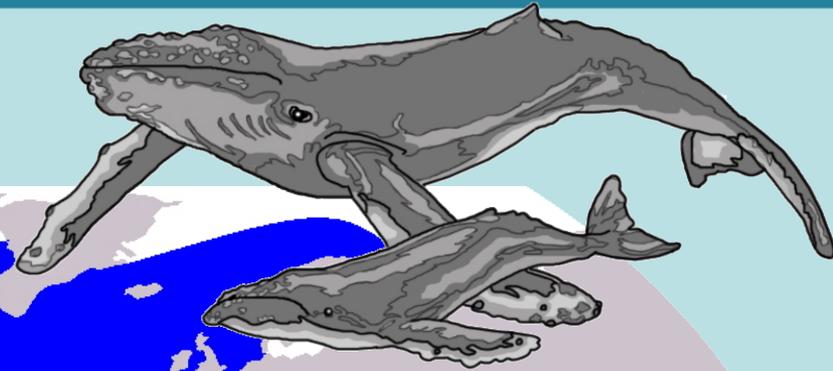




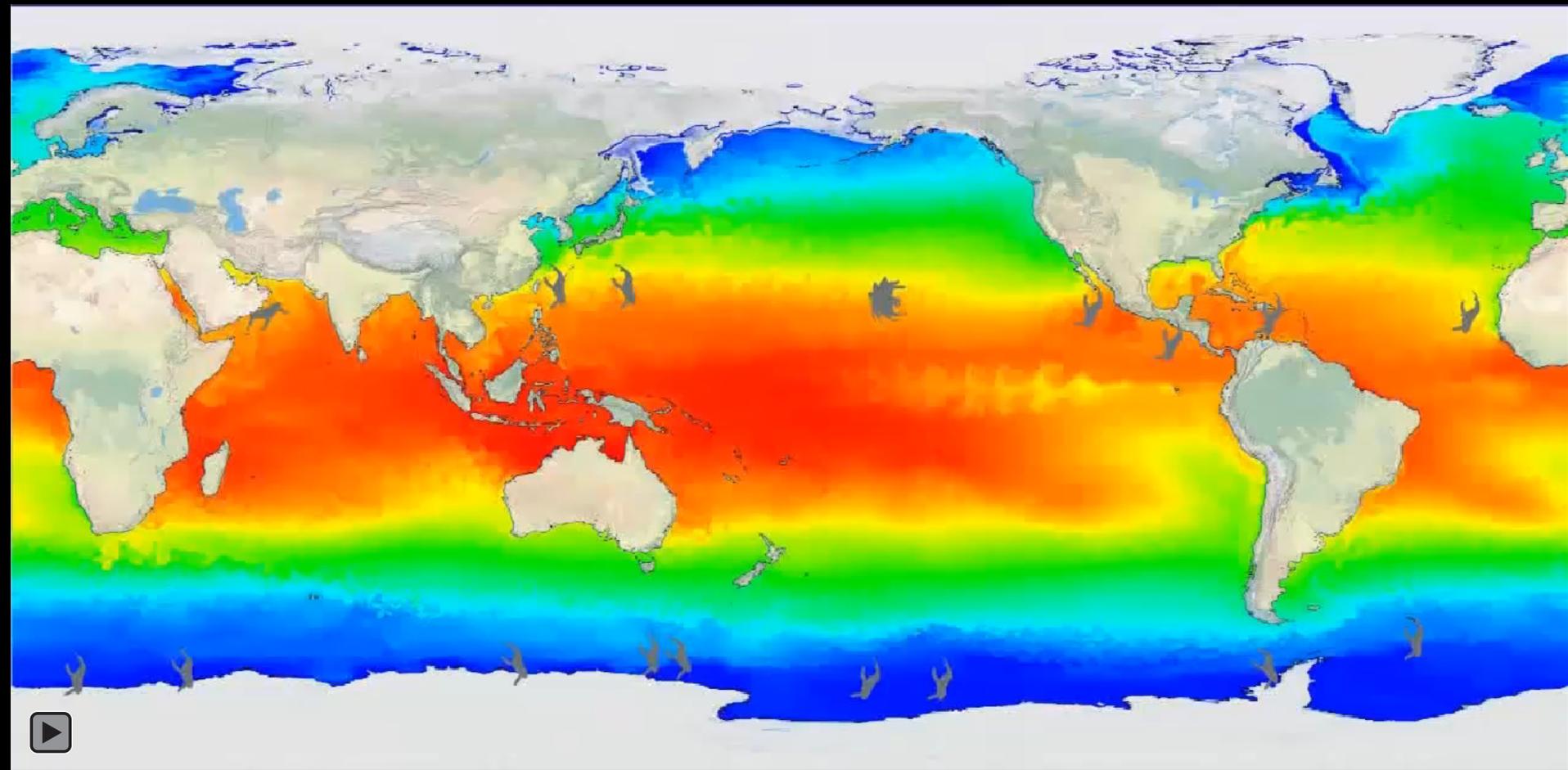
# Humpbacks are Migratory



# Humpbacks are Migratory



# Humpback Whale Migration



SEA SURFACE TEMPERATURE  
COOLER WARMER



# Humpbacks Sing



- **only males**
- **stationary or moving**
- **during mating season**
- **complex songs**
- **10-20 minutes long**
  - **sung for hours at a time**



# Humpbacks are Acrobatic





# Humpback Behaviors

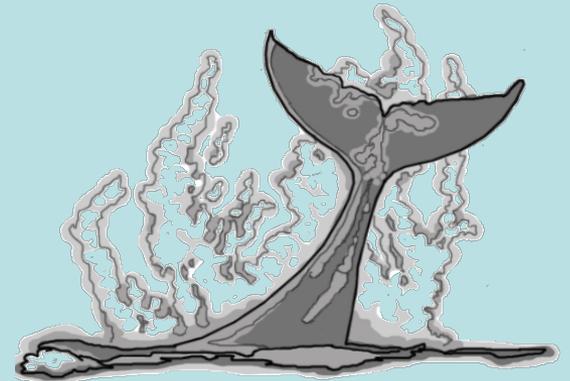


**breach**

# Humpback Behaviors



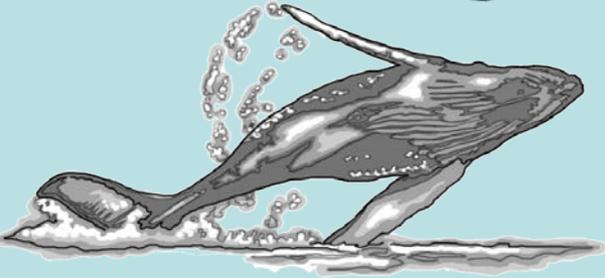
**breach**



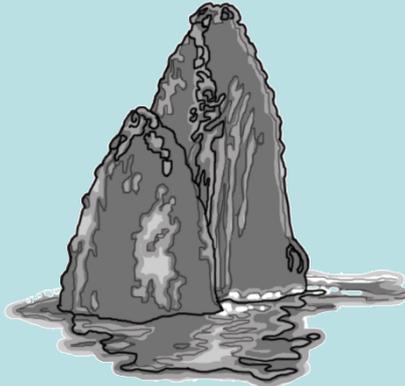
**peduncle  
throw**



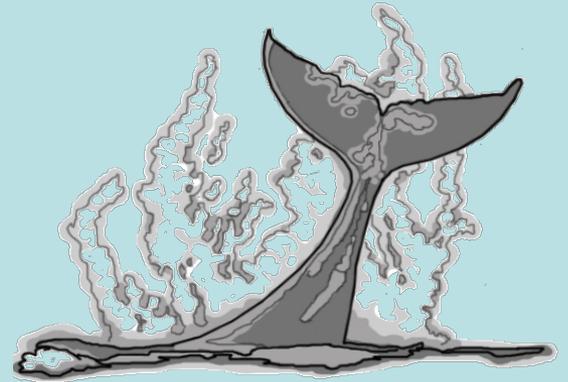
# Humpback Behaviors



**breach**



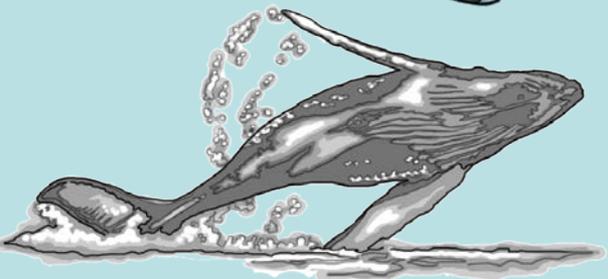
**headrise/  
spyhop**



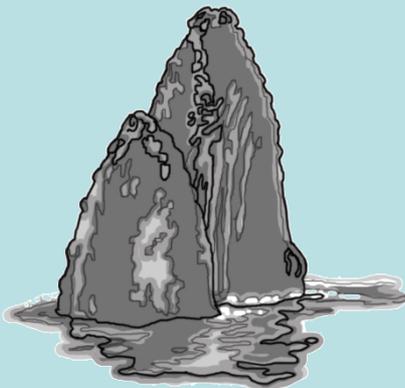
**peduncle  
throw**



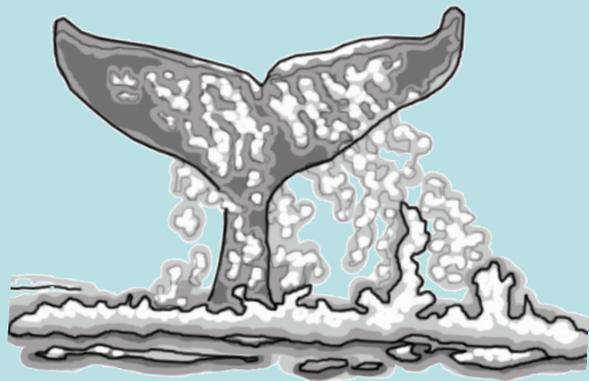
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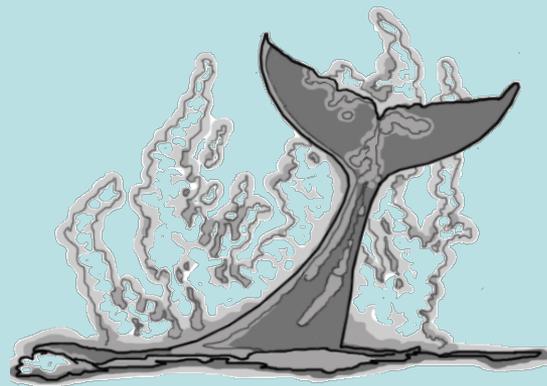
**breach**



**headrise/  
spyhop**



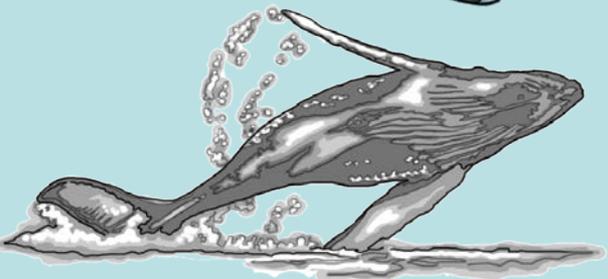
**tail slap**



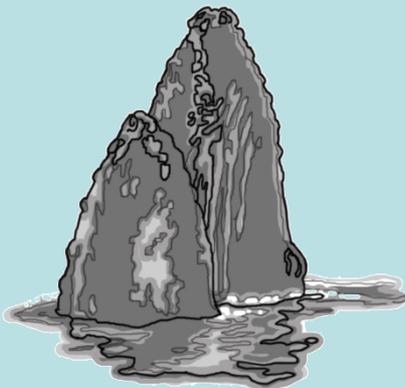
**peduncle  
throw**



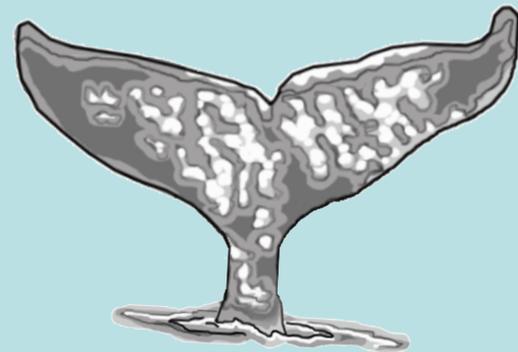
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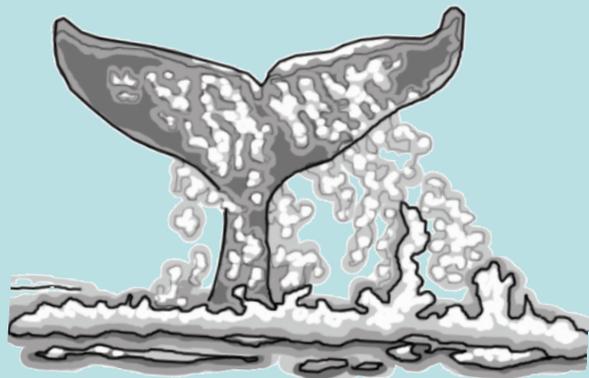
**breach**



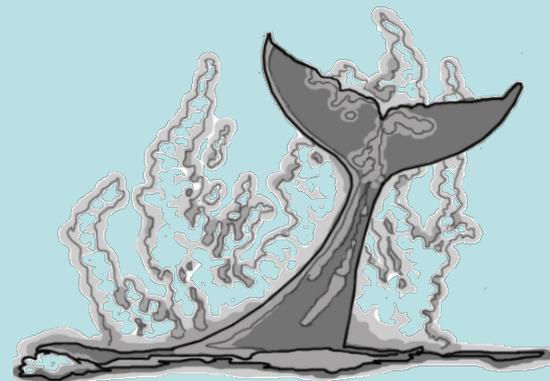
**headrise/  
spyhop**



**fluke up**



**tail slap**



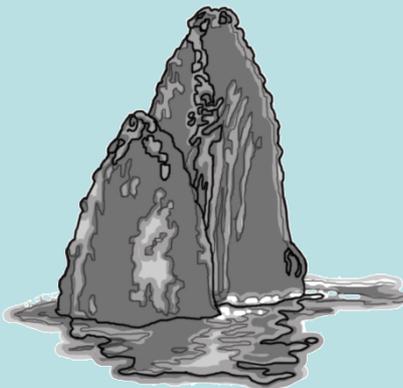
**peduncle  
throw**



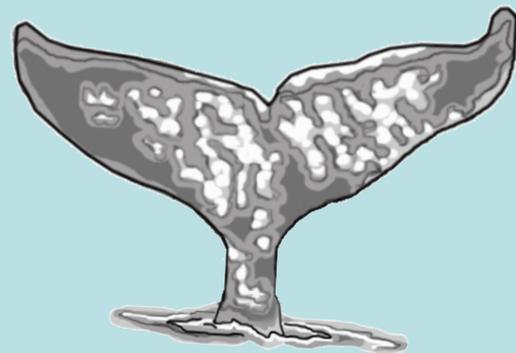
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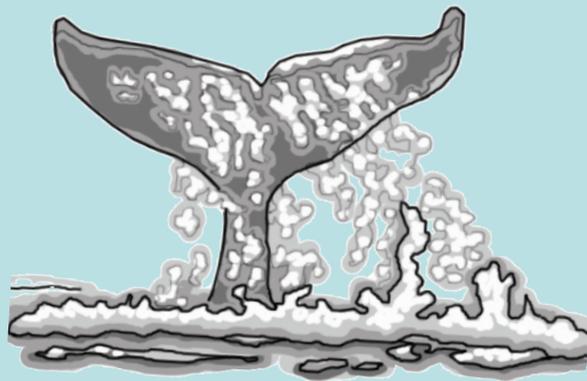
**breach**



**headrise/  
spyhop**



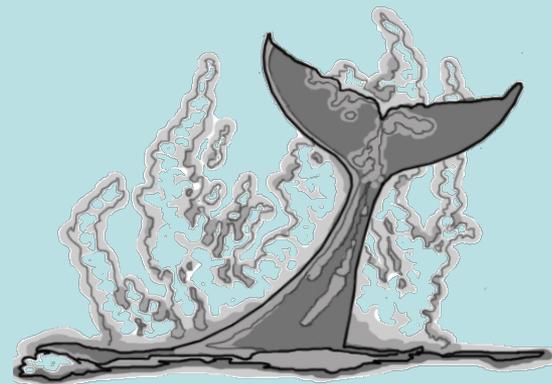
**fluke up**



**tail slap**



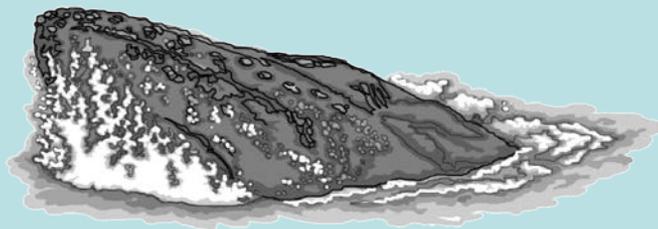
**pec slap**



**peduncle  
throw**



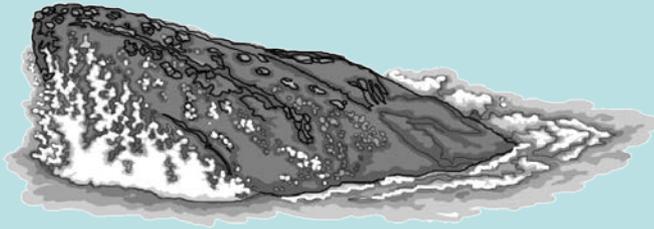
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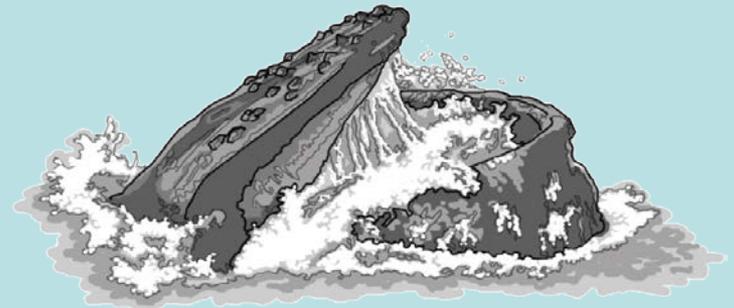
**head lunge**



# Humpback Behaviors



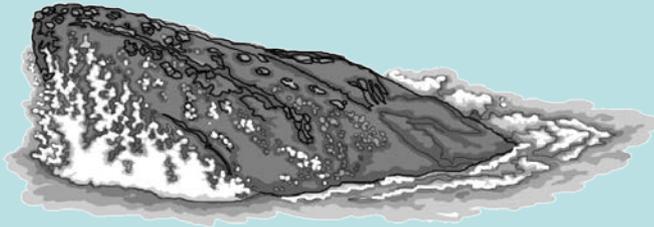
**head lunge**



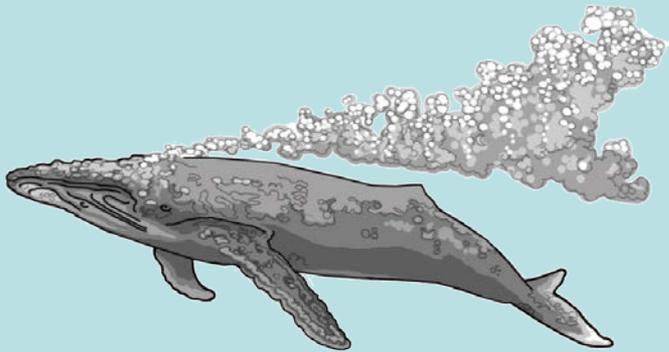
**lunge feeding**



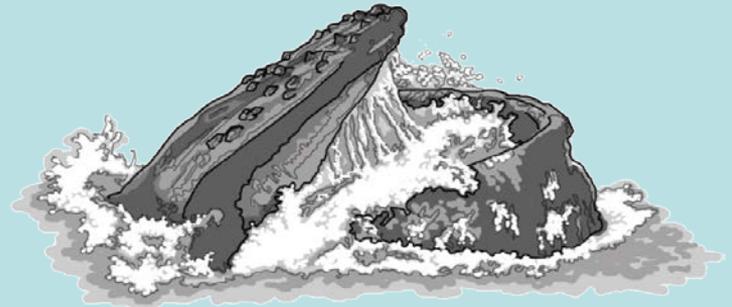
# Humpback Behaviors



**head lunge**



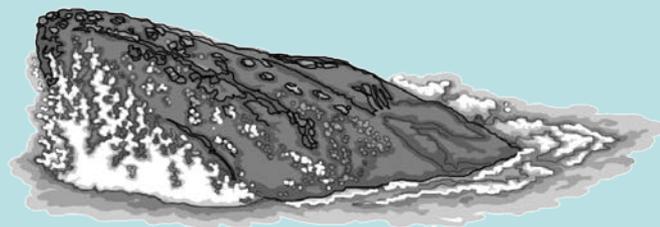
**linear bubble trail**



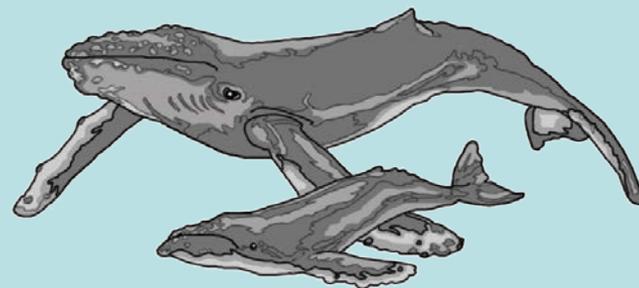
**lunge feeding**



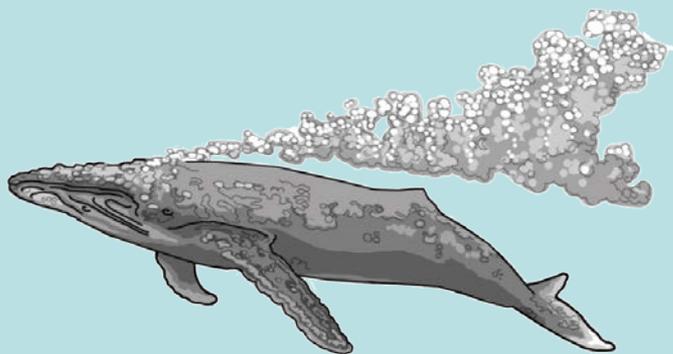
# Humpback Behaviors



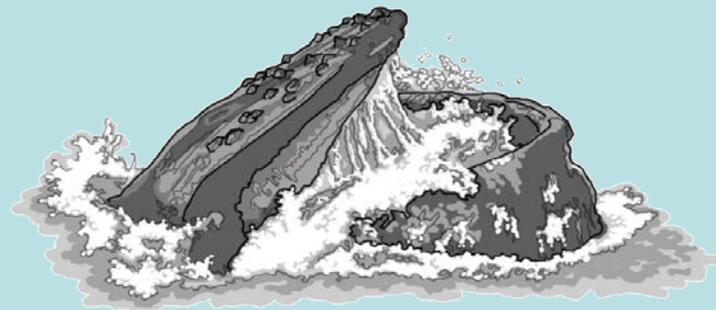
**head lunge**



**mom/calf  
interactions**



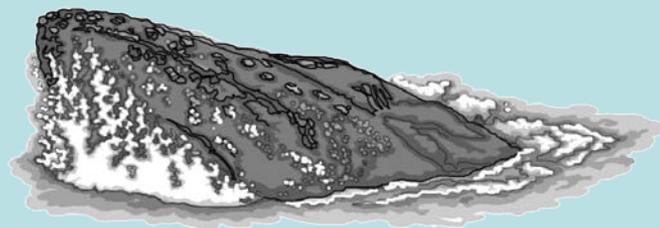
**linear bubble trail**



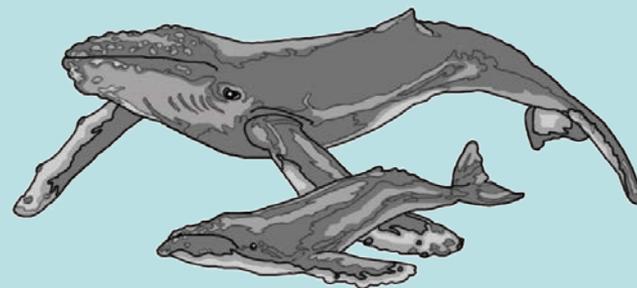
**lunge feeding**



# Humpback Behaviors



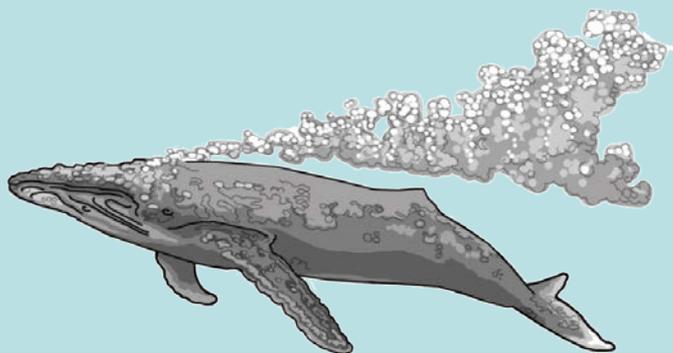
**head lunge**



**mom/calf interactions**



**bubble net**



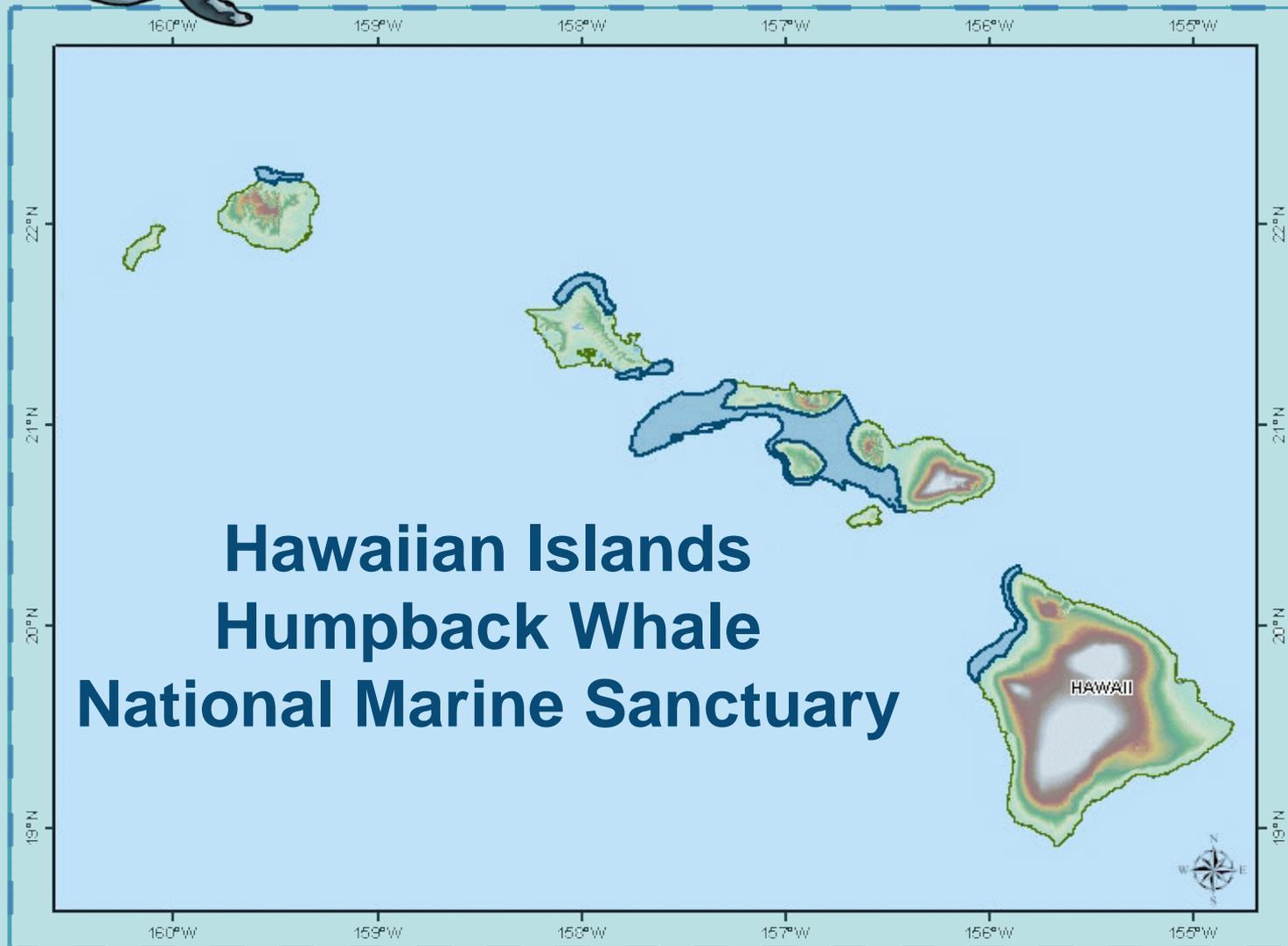
**linear bubble trail**



**lunge feeding**



# Humpbacks are Endangered



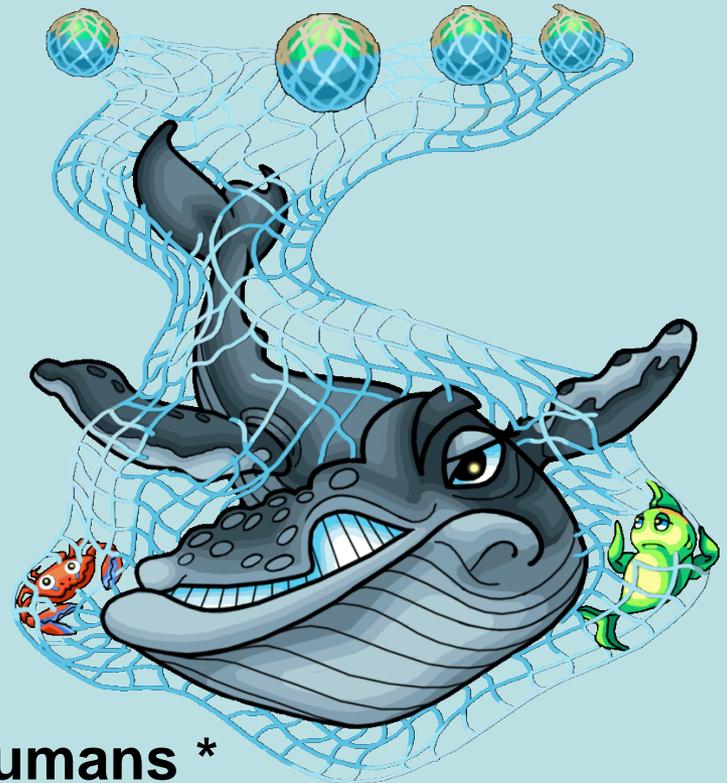
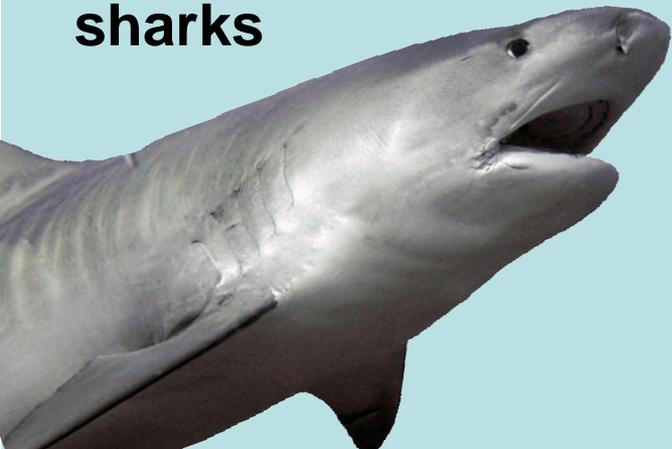


# Threats to Humpbacks



killer whales

sharks



\* humans \*



**The End**