



Mammalia

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Examples of animals in mammalia

- ▶ Sea Otters
- ▶ Sea lions
- ▶ Whales
- ▶ Seals





Marine mammals

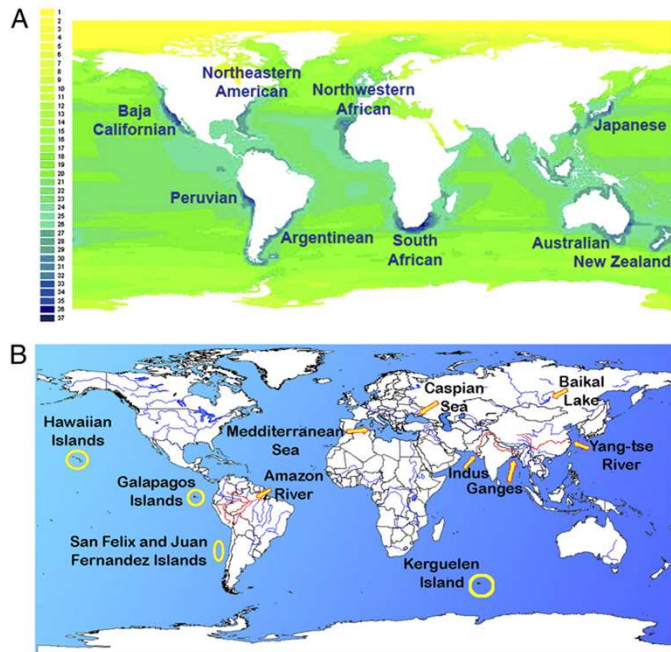
- Characteristics of marine mammals:
 - ☒ Warm-blooded
 - ☒ Breathe air
 - ☒ Have hair (or fur)
 - ☒ Bear live young
 - ☒ Females have mammary glands that produce milk for their young

Characteristics

Animals in this class are warmed blooded and often need to come up to the surface for air

Habitat

- ▶ Marine mammals live in underwater habitats around the world.

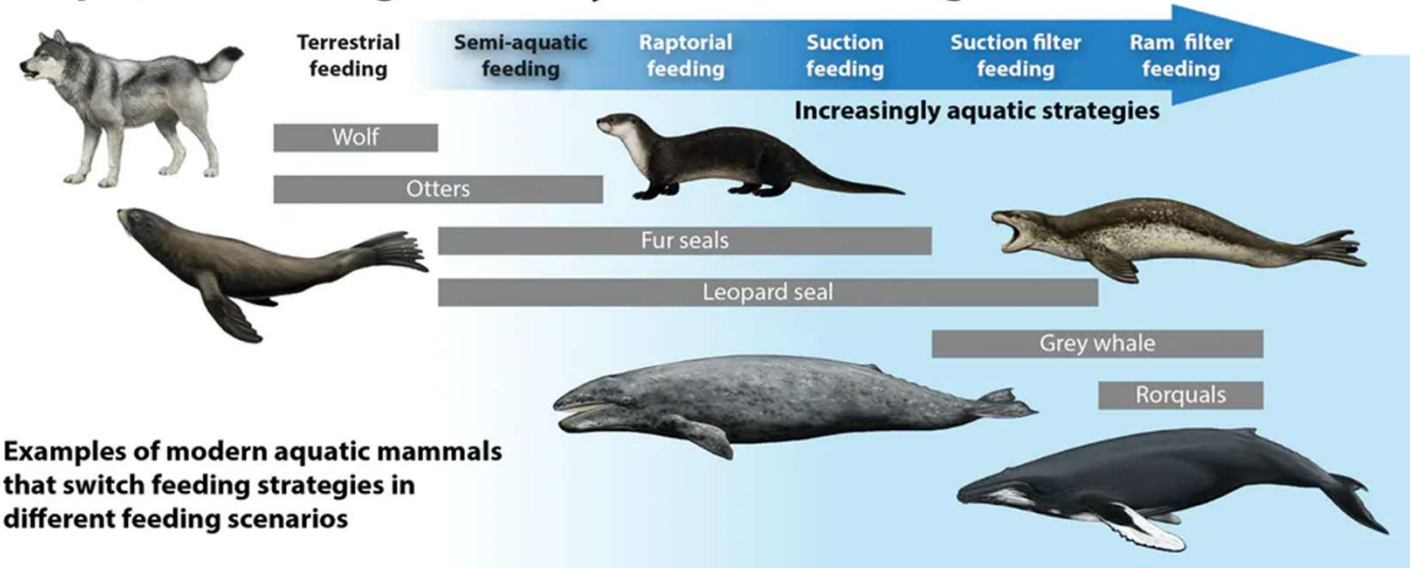


Reproduction

- ▶ Marine mammals group into pairs in most cases and mate for life.



Sequence of strategies used by mammals feeding in water

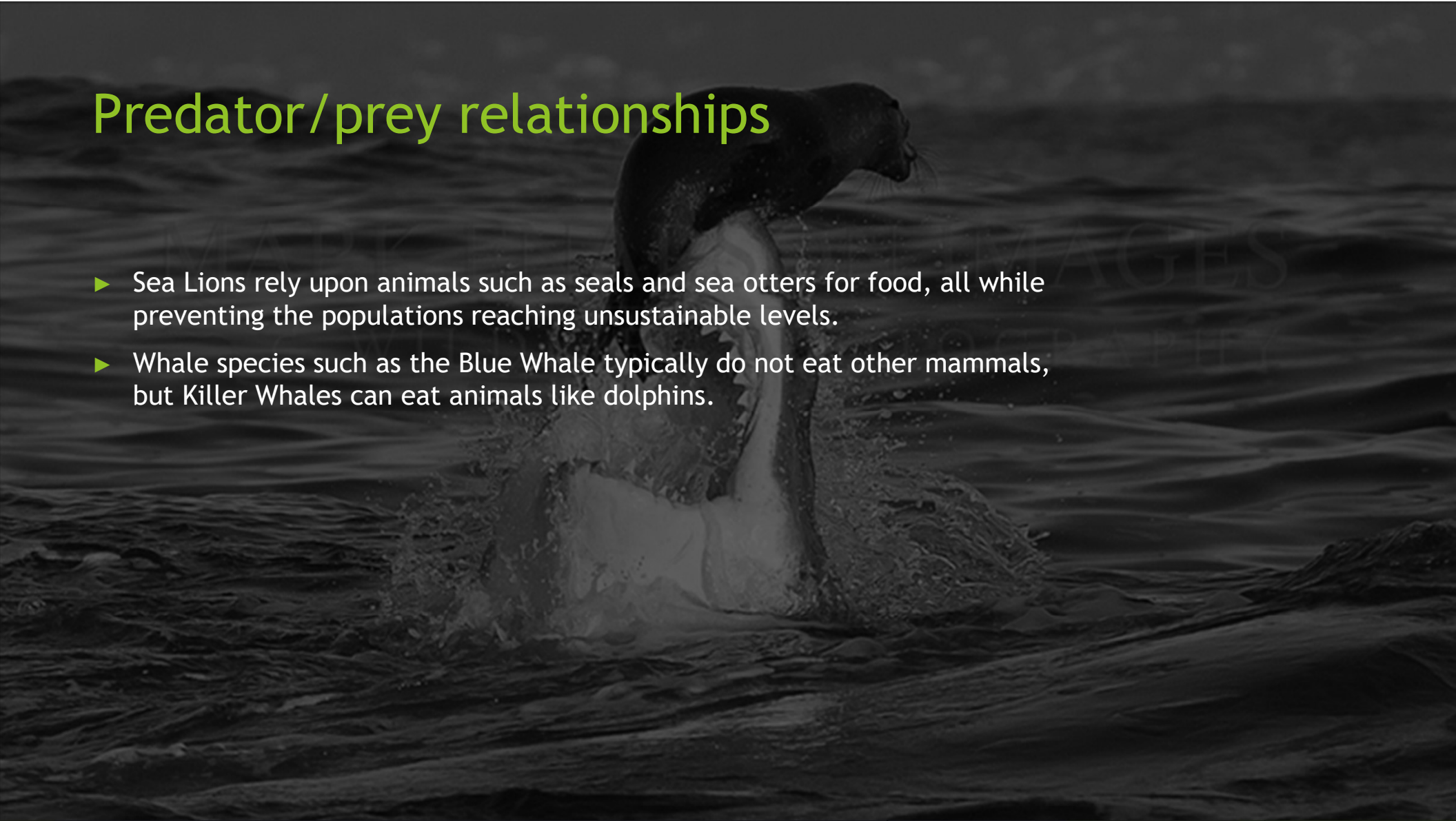


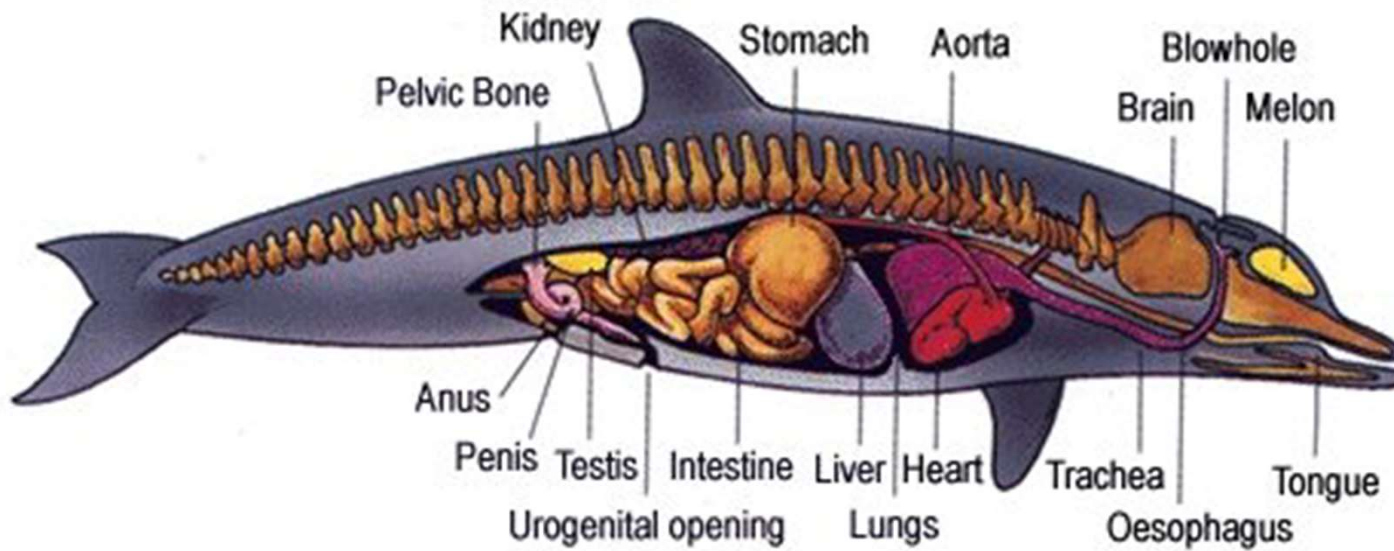
Feeding strategies

Feeding strategies differ by species. Some are filter feeders while others catch fish.

Predator/prey relationships

- ▶ Sea Lions rely upon animals such as seals and sea otters for food, all while preventing the populations reaching unsustainable levels.
- ▶ Whale species such as the Blue Whale typically do not eat other mammals, but Killer Whales can eat animals like dolphins.

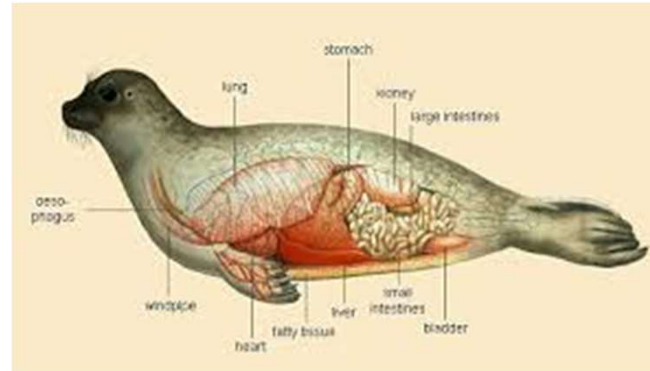




Symmetry / Anatomy

Most marine mammals are bilaterally symmetrical.

Diagrams



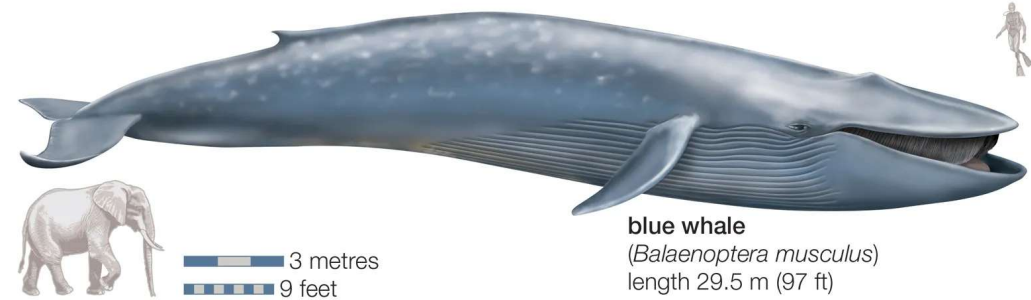
Seals

- ▶ The seal is by far one of the most recognizable marine mammals by it's wide recognition as adorable and valuable fur that is still harvested today in Canada.
- ▶ They can weigh up to 4.4 tons.



Blue Whale

- ▶ The Blue Whale is the single largest organism, let alone mammal, that we know of. As of recent years they have fallen into endangered population levels.
- ▶ Their numbers are on an upward trend currently although.
- ▶ Sad Fact: There is a blue whale called the 52 hertz whale because he sings in a different frequency than any other blue whales. Because of this he can't communicate with any other whales. He is nicknamed "The loneliest whale on the planet"



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Polar Bear

- ▶ Polar Bears are the apex predator of the North Pole, but people don't know some interesting things about them, such as them only having white fur, and being able to swim for days at a time.
- ▶ Polar bears are subject to an extremely wide variety of threats.



Human impacts



- ▶ Humans have left a major impact on the ocean as a whole, not just limited to mammals.
 - ▶ The incessant burning of fossil fuels have accelerated the process of global warming.
 - ▶ Chemical runoff has caused ocean acidification, causing the food web to be disrupted and communities of marine mammals suffer because of it.

Video

- ▶ <https://youtu.be/UwlWKQJxEmE>
- ▶ <https://youtu.be/Ozi7lcyatt0> Cringe video

