Welcome to the NOAA office in Woods Hole

Woods Hole, Massachusetts
Human Adaptations

- Eyebrows
- Hair to keep heat
- Eyelashes
- Pinkie toes
- Ears that stick out
- Opposable thumbs
Marine Habitat

Temperature?

Rough or Calm?

Dark or Light?
**Marine Mammal Adaptations**

- Limbs evolved into fins & flippers
- Deep diving adaptations
  - No outer ear flap
- Feeding adaptations
- Insulating blubber
- Blowhole
- Echolocation/Communication abilities
- Streamlined bodies
- Camouflage coloring (dark top, light bottom)
Adaptation Identification Review
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Photo Credit: Ian Stirling
Short-Beaked Common Dolphin

Photo Credit: NOAA/NEFSC/Pete Duley
Image collected under MMPA Research Permit #775-1875
Activity 2
Compare and contrast: Skeletons

What is the same?

What is different?
Climate Change

What is it?

The Heat Trapping Blanket

Photo: http://tiki.oneworld.net/planet-boundaries/pb5climate.html

Photo: http://devilsinquisitor.com/tag/heat/
Heat Trapping Gases are produced by...

http://www.carclipart.com/

http://www.designedtoat.com/summer2.shtml
As global temperature rises:

- sea temperature rises
- sea level rises
- icebergs melt

Results:

- Where animals live shifts
- Loss of habitat
- Change in where food is

Photo credit: Gordon Waring, NOAA/NEFSC
Our very own PSB scientist...

**Gordon Waring** looks at Harbor and Gray Seals numbers and where they are located. He analyzes how they are using their habitat and how that habitat usage changes depending on the season (winter, spring, summer, and fall).
How can we help?

- Don’t litter
- Recycle
- Buy eco-friendly products
- Conserve

Spread the word

Monterey Bay Aquarium Climate Change Video