

# Climate Change

#### What is it?

 A long term change in temperature and weather due to natural and unnatural causes

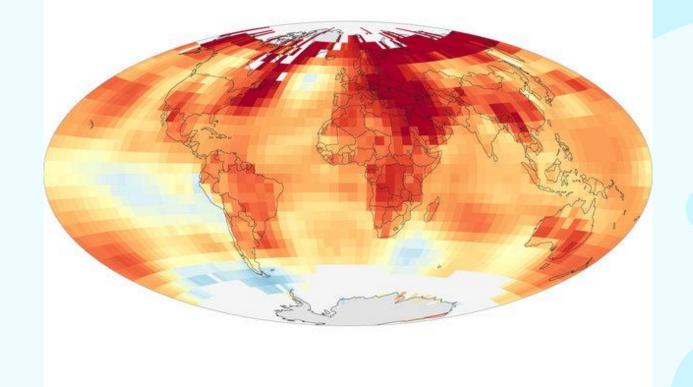
### How does it affect oceans?

- Storms
- Ocean Warming
- Ice Melting/Rising Sea Levels
- Changing Currents
- Coral Bleaching



# Climate Change Chart:

### RECENT TEMPERATURE TRENDS (1990-2020)



Change in temperature (°F/decade)

NOAA Climate.gov Data: NCEI

# **Coral Bleaching**

#### What is it?

 Coral have symbiotic algae living in their tissues, and when the coral experiences a change in conditions- temp, light, nutrients- they expel the algae

#### Specific Causes

- Warming ocean temps
- Storm runoff and pollution
- Sunlight exposure
- Low tides



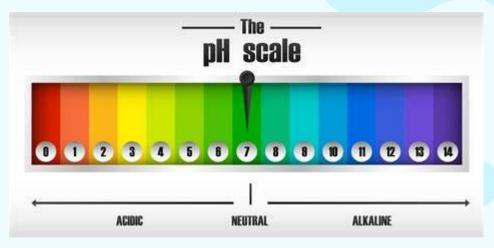
### Ocean acidification

#### What is it?

 The ocean becoming more acidic due to an increase in CO2

### Why do we care?

- Dissolving shell builders
- Effects on food web



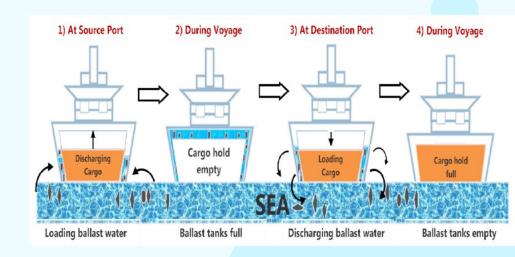
### Invasive species

#### What is it?

 An invasive species is an organism that is not indigenous, or native, to a particular area. Invasive species can cause great economic and environmental harm to the new area.

#### Effects of invasive species:

- Outcompete native species
- Destroy habitat
- Become predator to a native species



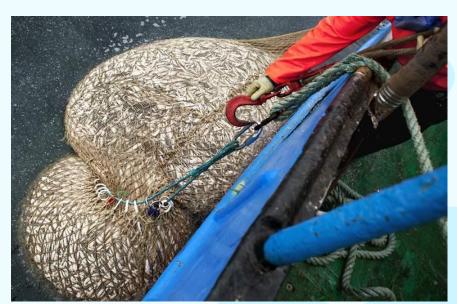
# Overfishing

#### What is it?

 Overfishing is the practice of catching more fish faster than they can replenish their population.

### Effects of overfishing

- Disrupting food chain
- Algae growth
- Coral reef destruction
- Bycatch
- Species going extinct



### **Pollution**

### Types of pollution

- Marine debris
- Plastic pollution
  - Microplastic
  - Pacific Garbage Patch
- Oil spills
- Eutrophication



# Plastic pollution

### Types:

- Plastic
- Microplastics
- Pacific Garbage Patch

### Effects:

- On marine life
- On humans



# Oil Spills

When we think of pollution we don't think of oil spills being a part of that,

but it is a major part!

#### Why it happens:

• Human accidents, equipment malfunction, purposeful, nature

#### Effects:

- Insulation of animal fur
- Trap animals
- Swallowing oil



# How We Can Help

- Conserve Water
  - Help limit runoff into the ocean
- Use plastic alternatives
  - Single-use plastics end up in the ocean
- Choose sustainable seafood
  - Stop overfishing practices
- Leave no trace
  - Even on land- clean up after yourself
- Reduce carbon footprint
  - Turn off lights! Ride your bike!
- Educate others
  - Speak out about these issues to others

