

# Changes in Sea Level at Great Kills

## Greenhouse Gases (GHGs)

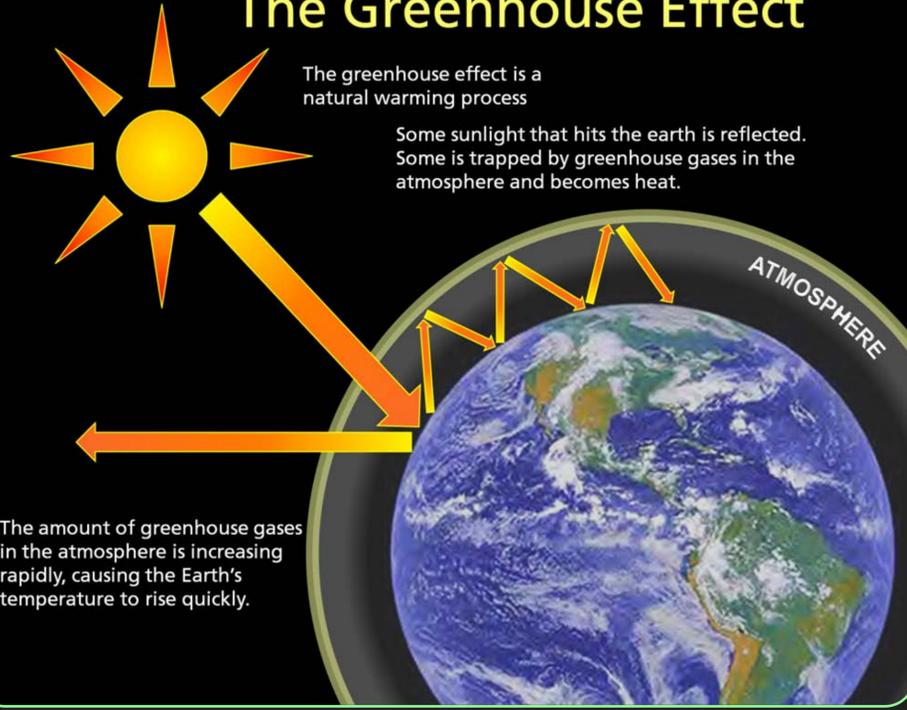
- Carbon dioxide (CO<sub>2</sub>)
- Nitrous oxide (N<sub>2</sub>O)
- Methane (CH<sub>4</sub>)
- Water vapor

Warmer temperatures melt glaciers and ice sheets and expand sea water, increasing the volume of water in the oceans... interacting with coastal subsidence – the sinking of land.

## The Greenhouse Effect

The greenhouse effect is a natural warming process

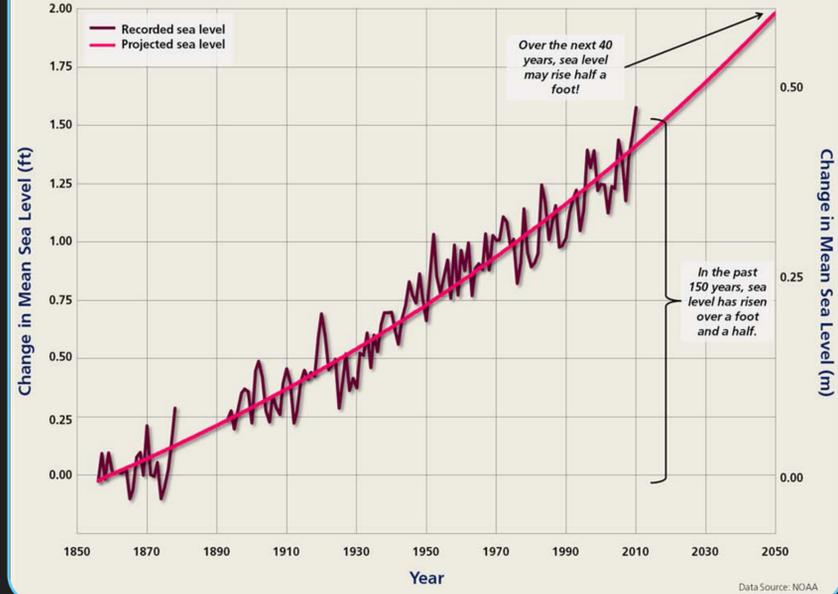
Some sunlight that hits the earth is reflected. Some is trapped by greenhouse gases in the atmosphere and becomes heat.



## The Impacts

- Flooding
- More storms
- Property damage + loss
- Loss of wildlife habitat
- Loss of beach
- Erosion

## Great Kills Sea-level Rise The Battery, NY



## What happened to the Great Kills Bathhouse?

Years of erosion and a rising sea level washed away the facilities on the Great Kills shoreline. The beach continues to move inward.

1995



2003



2010



## Help Make Gateway Greener



Climate Friendly Parks is a joint program of the NPS and US EPA to facilitate an increase in energy efficiency and a reduction of emissions in National Parks.



Ride a bike on the multi-use path!



Help plant native vegetation and preserve biodiversity!

**ACT NOW**  
change the future

**Be Green!**

- Unplug
- Walk or ride a bike
- Reduce, Reuse, Recycle
- Attend local planning board meetings
- Turn down thermostats
- Buy local food

Every bathhouse at Sandy Hook uses solar panels for power.

For more information →  
Friend/Follow Gateway National Recreation Area  
<http://www.nature.nps.gov/climatechange>

