Changes in Sea Level at Jamaica Bay

**Greenhouse Gases (GHGs)**
- Carbon dioxide (CO₂)
- Nitrous oxide (N₂O)
- Methane (CH₄)
- Water vapor

Warmer temperatures melt glaciers and ice sheets and expand seawater, 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 amount of greenhouse gases in the atmosphere is increasing rapidly, causing the Earth's temperature to rise quickly.

**Jamaica Bay Sea-level Rise**

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

**Marshes and Wildlife Endangered By a Higher Water Level**

The salt marsh islands of Jamaica Bay, along with the wildlife they harbor are endangered by sea-level rise and human activity. These habitats will drown over the next few years without a strong management plan.

1951 2006 2010

*Elder's Point Restoration project started Restoration continues*

**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!

Every bathhouse at Sandy Hook uses solar panels for power.

**ACT NOW**

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

For more information: [Climate Friendly Parks](http://www.nps.gov/climatechange)

**Source:** City of New York

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