

Name: \_\_\_\_\_ Date: \_\_\_\_\_

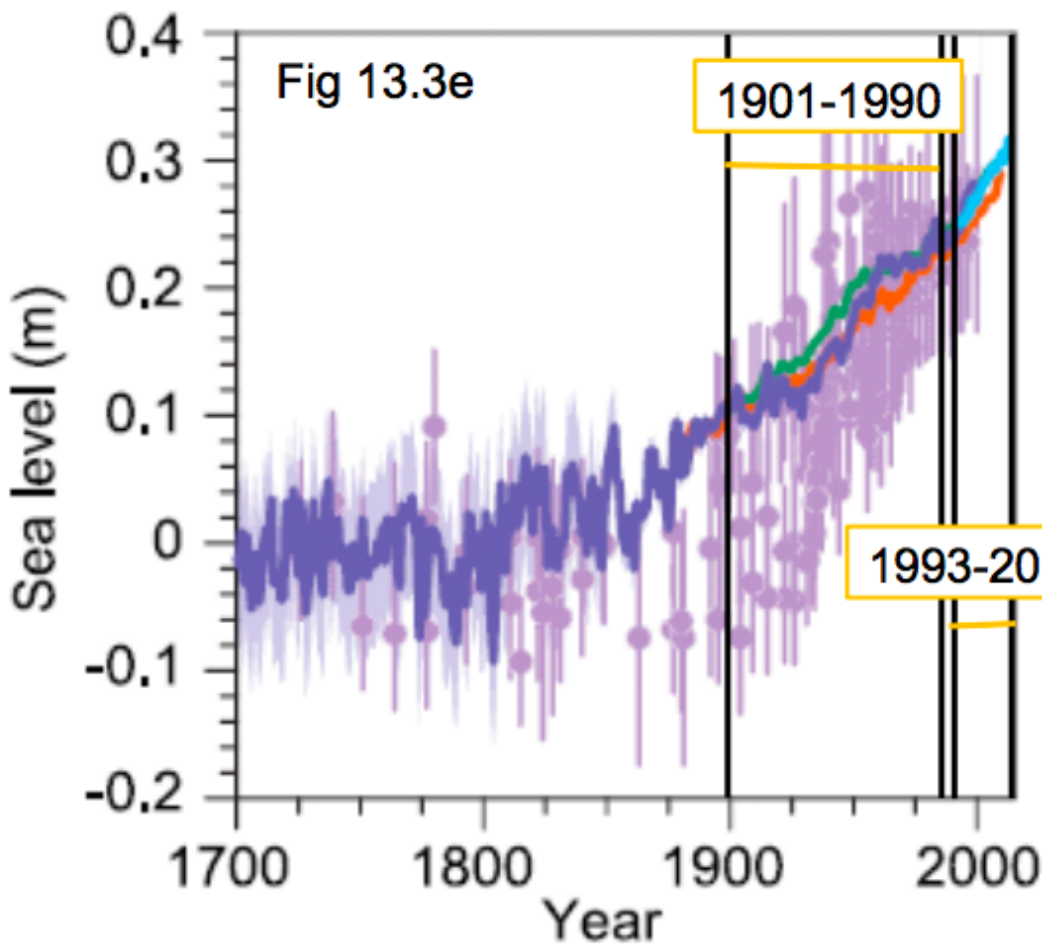
**Day 3: NOAA Sea Level Projections**

Do Now: Has your house, or the house of someone you know, ever flooded? If so, how long did it take to recover?

What are all the climate change factors that can impact sea level?

- 1.
- 2.
- 3.

Graph 1



At what point did sea levels really start to rise? What was happening around that time?

## Projections

Use this website <http://www.psmsl.org/products/trends/> to answer the below. Red arrows pointing up mean the seas are rising. Blue arrows pointing down mean the seas are sinking.

Where is sea level rising?

What areas are going to experience the greatest rise? (darkest red arrows)

What areas are going to experience the lowest rise? (yellowish arrows)

Where is sea level not rising? (white sideways arrow)

**Turn and Talk**: As sea levels rise, what are some impacts humans will encounter?

The IPCC projects sea levels will rise 38.5 inches by 2100.

**Convert this to feet:** \_\_\_\_\_

### **Independent Practice**

[NOAA Sea Level Projections](#)

1. Look at Fulton Street.
  - a. Open "Sea Level Rise".
  - b. Start at MHHW. Look up what MHHW is in Google:
    - c. Now, rise the slider slowly up from 1ft to 6ft.
    - d. Describe what you notice below.
  
2. Look at Coney Island.
  - a. Open "Sea Level Rise".
  - b. Now, rise the slider slowly up from 1ft to 6ft.
  - c. Describe what you notice below.

3. Look at West Babylon.
  - a. Open "Sea Level Rise".
  - b. Now, rise the slider slowly up from 1ft to 6ft.
  - c. Describe what you notice below.
  
4. Now, zoom out and look at all of NYC. What areas are most likely to be underwater?

## Independent Practice Part 2

### [NPCC Climate Projections 2015](#)

1. Look at “Climate Observations & Trends”. Describe what you read below.
2. Look at “Climate Projections”. Describe what you read below.
3. Look at “Coastal Flooding”. Describe what you read below.
4. Look at “Key Recommendations and City Actions”. Describe what you read below.