

Rockport Massachusetts:

Projected Sea Level Rises Caused
by Climate Change and Storm Surges



www.city-data.com/picfilesv/picv442.php



www.tripadvisor.com/AllReviews-g41790-Rockport

General Information

- Rockport mainly consists of:
 - large estates, summer homes, art galleries, and a small fishing village
- According to 2000 census:
 - Total Population: 7,767
 - Number of Households: 3,490
 - Number of Families: 2,207
- Highest Elevation: 23.46 meters
- Median Income for Household: \$50,661
- Median Income for Family: \$69,263
- Median House Value: \$277,300

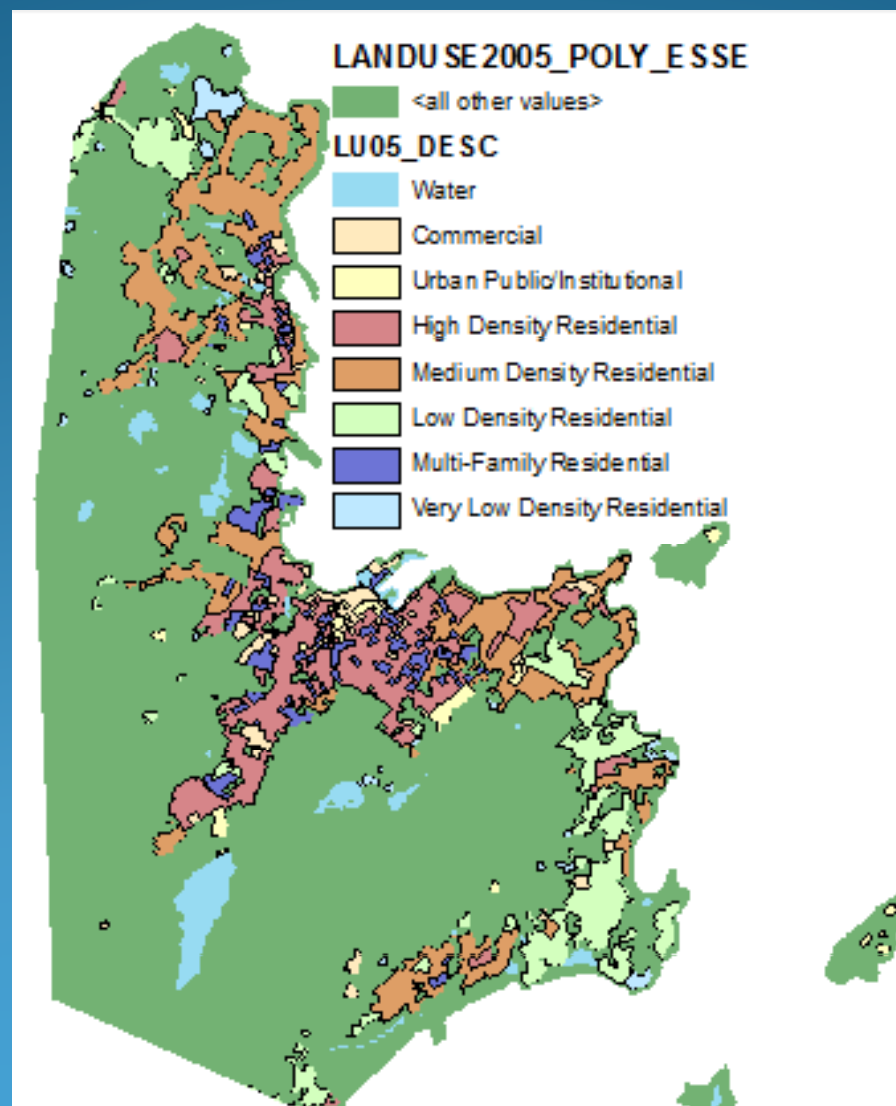


<http://bgrahn.com/jpgs/beachedBoatsWEB.JPG>

Rockport Before Sea Level Rise



Rockport Land Uses

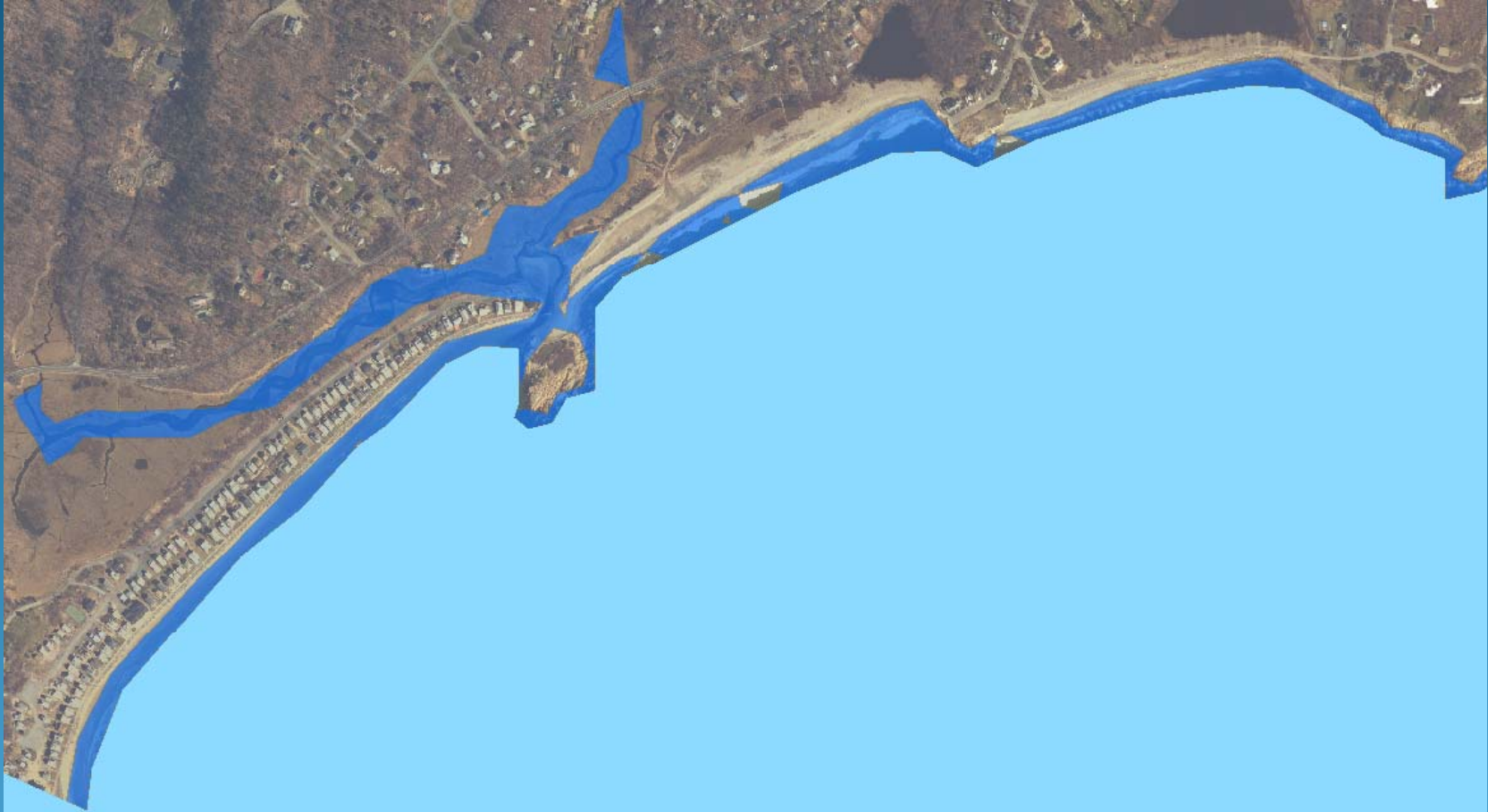


Rockport with 1 meter Sea Level Rise

Total Area Submerged=2.79%



1 meter flooded areas enlarged



Residential Area near Good Harbor Beach

1 meter flooded areas enlarged



Commercial, Residential, and Front Beach in Downtown areas

1 meter flooded areas enlarged



Halibut Point State Park and Residential areas near Pigeon Cove

Rockport with 3 meters Sea Level Rise

Total Area Submerged=6.28%

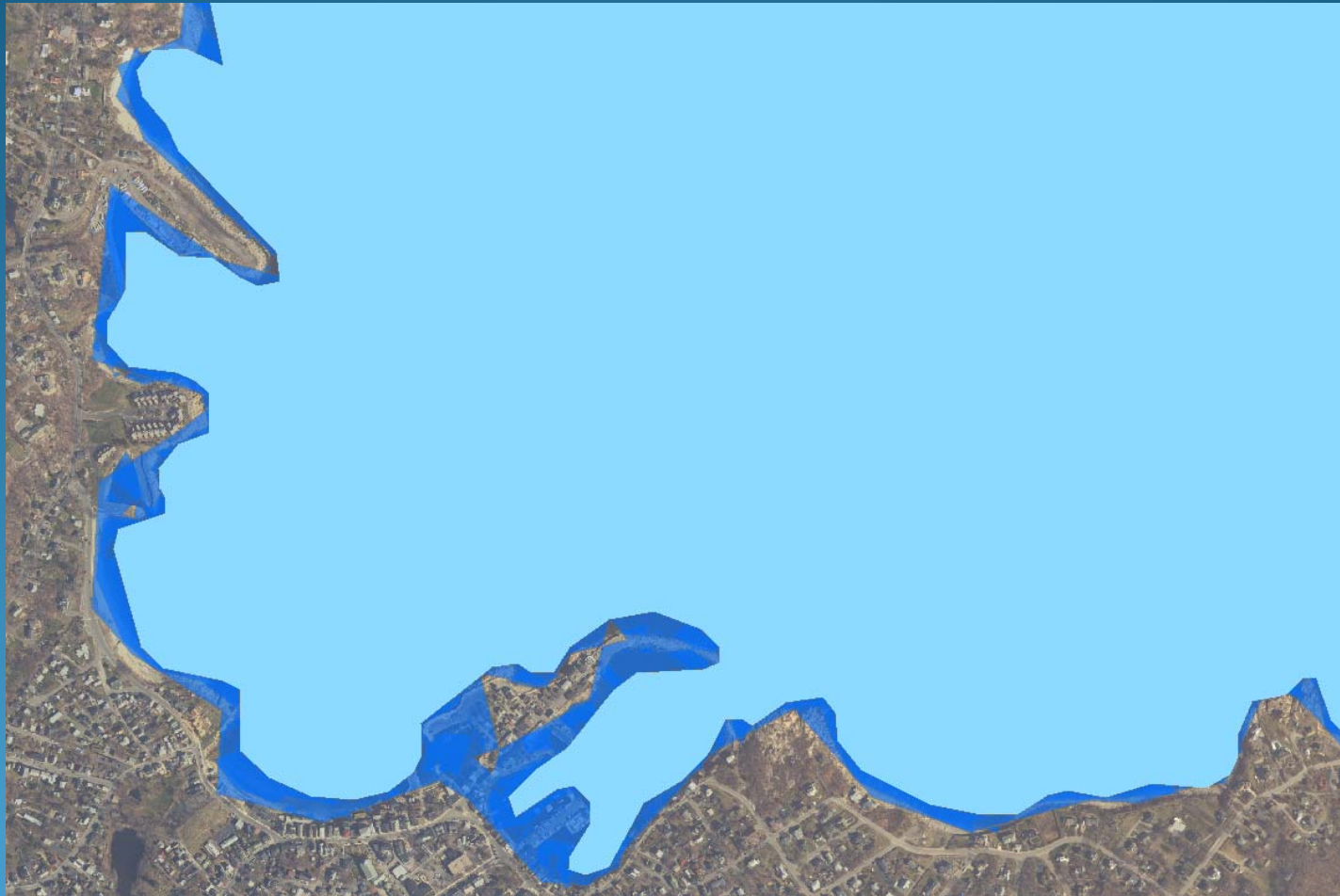


3 meter flooded areas enlarged



Residential Area near Good Harbor Beach

3 meter flooded areas enlarged



Commercial, Residential, and Front Beach in Downtown areas

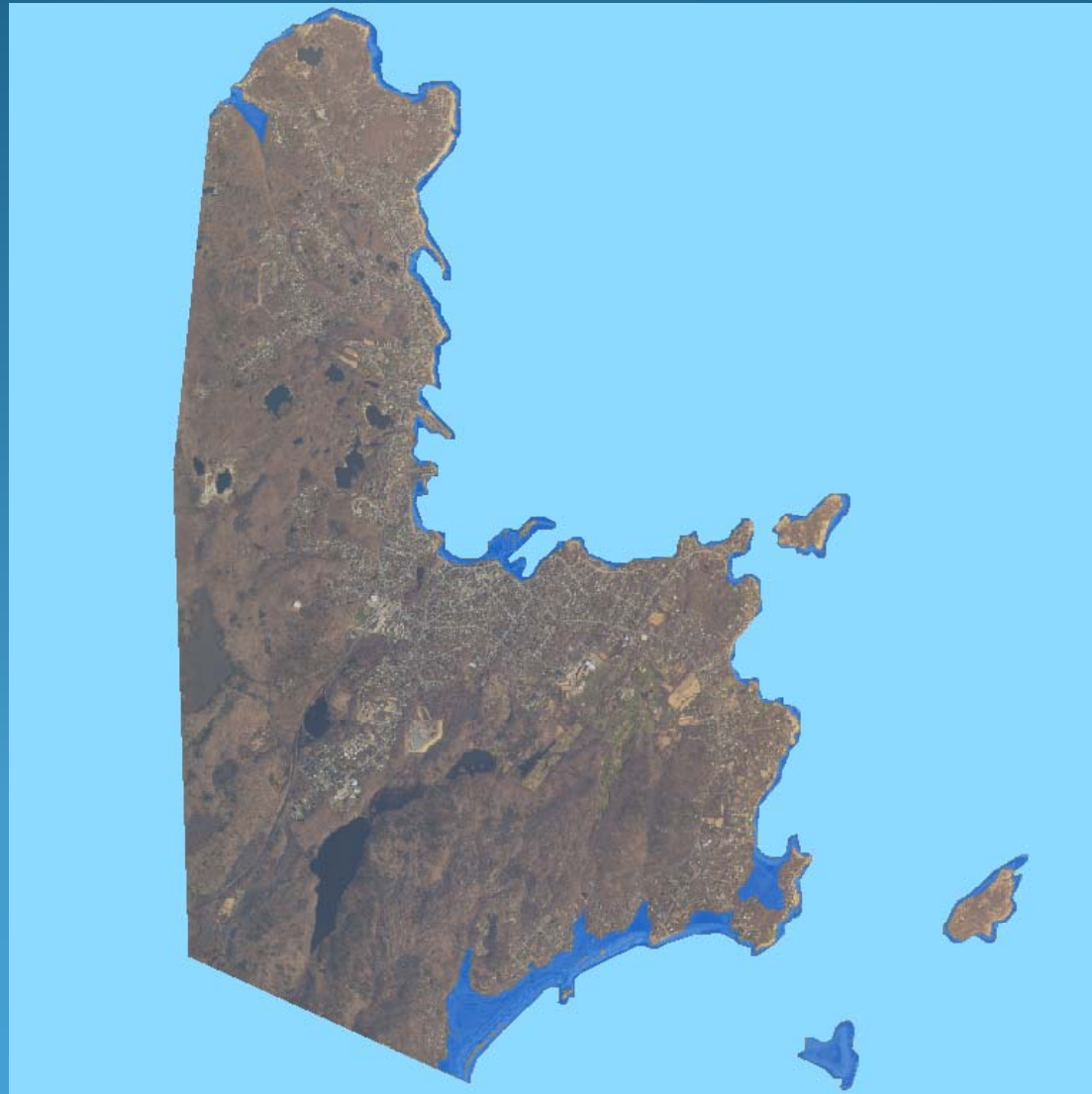
3 meter flooded areas enlarged



Halibut Point State Park and Residential areas near Pigeon Cove

Rockport with 4 meters Sea Level Rise

Total Area Submerged=7.51%



4 meter flooded areas enlarged



Residential Area near Good Harbor Beach

4 meter flooded areas enlarged



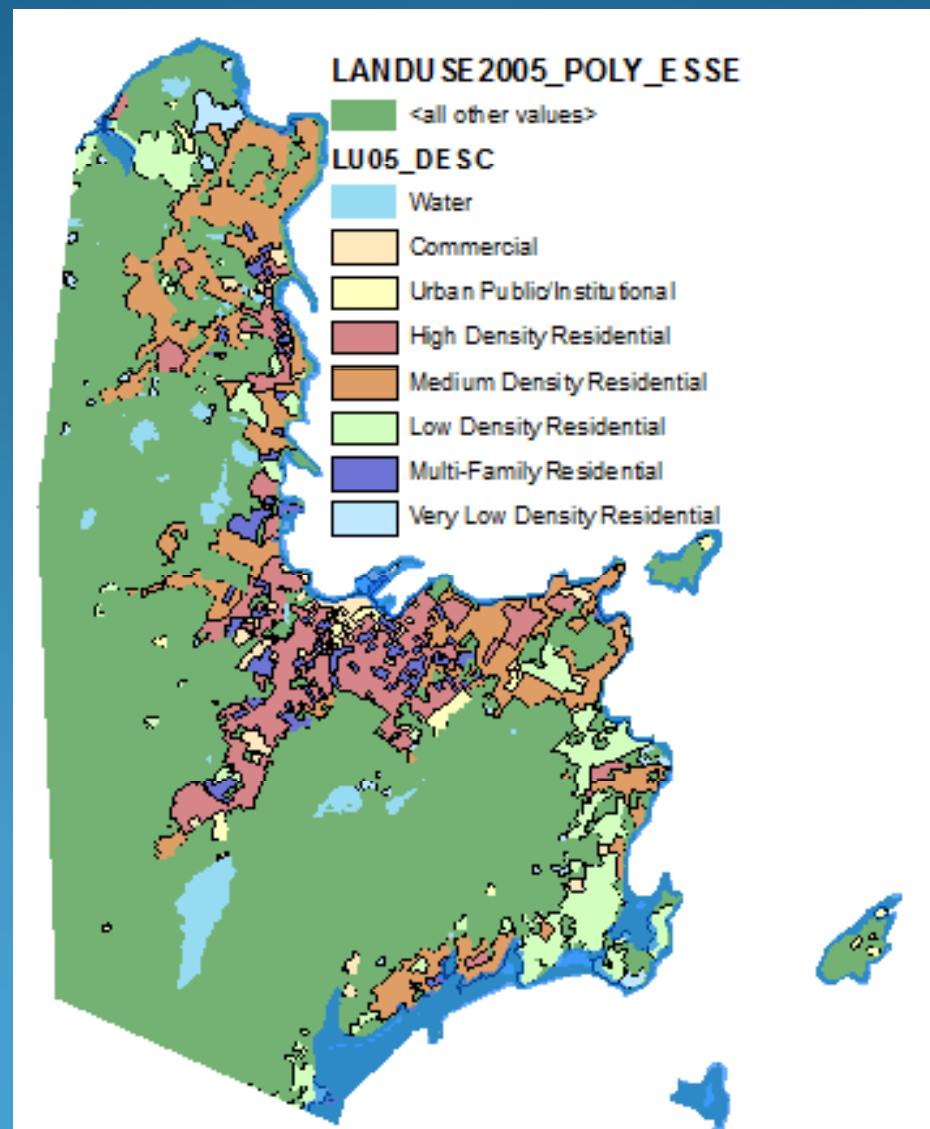
Commercial, Residential, and Front Beach in Downtown areas

4 meter flooded areas enlarged



Halibut Point State Park and Residential areas near Pigeon Cove

Land Uses After 4 meter sea Level Rise



Conclusion

- Rockport is well prepared for a sea level rise up to 4 meters
- Mostly forests, wetlands, and beaches were submerged
- Some residential areas around Pigeon Cove, Loblolly Cove, Whale Cove, Front Beach, and Good Harbor Beach were flooded
- Few commercial areas that consist of art galleries, shops, and restaurants around Front Beach and Downtown were submerged
- Milk Island becomes completely submerged by 4 meters
- Other islands have flooding, but not as significant