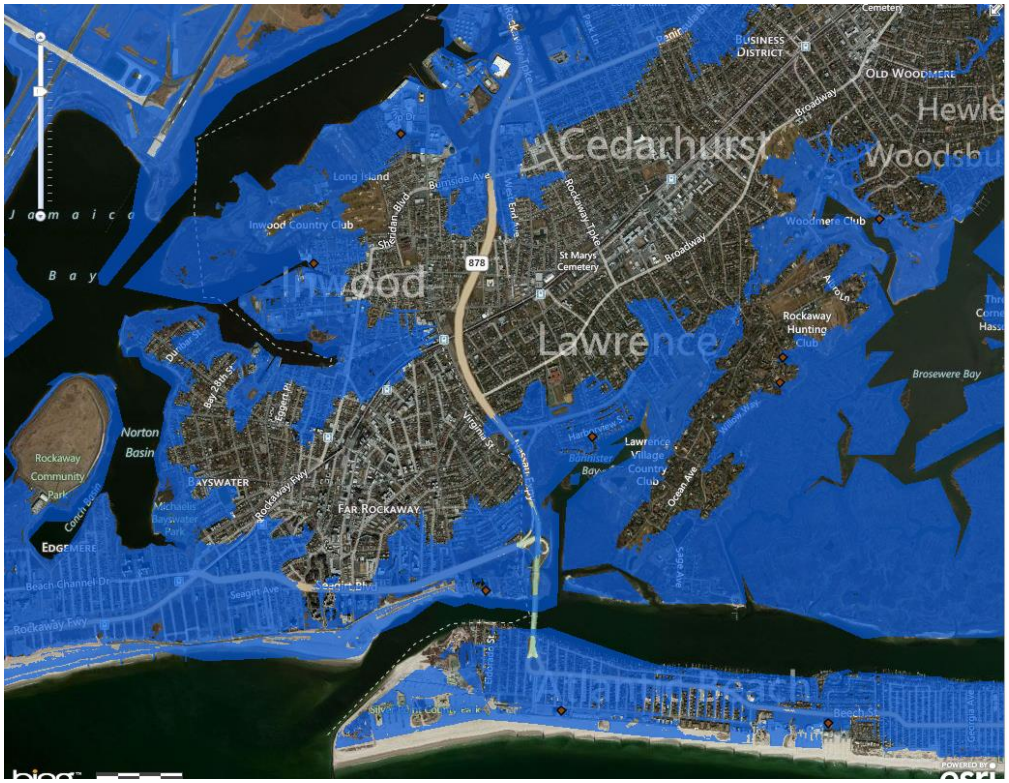
East Rockaway Inlet at Atlantic Beach

At 12.3 ft MLLW / 10.8 ft NGVD / 7.3 ft MHHW



Coastal communities along Southern Nassau experienced four successive tidal cycle with at least moderate coastal flooding. Widespread record coastal flooding occurring along the Western Great South Bay exceeding the FEMA 100 year base flood elevations. Peak storm tides surpassed all previously documented high water marks, including the October 31, 1991 and December 11, 1992 nor'easters and the recorded peaks from Hurricane Irene in 2011. The storm tide levels along the Southern Nassau County shore resulted from a peak storm surge of about 8 to 9 feet that coincided with normal high tides. This resulted in up to 3 to 5 feet of inundation of communities in and along Southern Nassau County.

The majority of locations south of Merrick Road and Atlantic Avenue were completely inundated, with waterfront communities along creeks and streams being inundated up to Sunrise Highway. Areas of major residential damage were experienced across low lying areas such as Inwood, Meadowmere Park, Bay Harbor, Island Park, Baldwin Harbor, Freeport, and Massapequa.

The most widespread major damage was experienced along the barrier beach communities, where the surge was amplified by the run-up and setup from 15 to 20 ft breakers along the Atlantic Ocean coast. Numerous homes and Atlantic Ocean facing structures, such as boardwalks and piers, in Long Beach and Lido Beach were completely destroyed.

Jones Beach - Extensive damage and flooding occurred throughout the park, both on the Atlantic Ocean and Great South Bay side. Just over 1/2 mile of boardwalk was damaged or destroyed. Two fishing piers on the Bay side were damaged or destroyed. Jones Beach Theater was completely flooded, including the orchestra section and up to four feet of water in the promenade and concession areas. Field 6 parking field partially collapsed in one section. The floor also buckled in the Central mall concession stand.

at 8.9 ft MLLW / 7.4 ft NGVD / 3.9 ft MHHW

Long Beach- Ocean flooded to Park Avenue in a few places.(756am 8/28/2011)
The bay flooded several blocks in places.(756am 8/28/2011)
Inundation of at least 7 ft on Long Beach and Lido beach. For Long Beach...cars parked near the boardwalk had water over their roofs.(800am 8/28/2011)
Water coming over retaining wall at National Boulevard and Shore Rd. (926am 8/28/2011)

at 7.4 ft MLLW / 5.9 ft NGVD / 2.4 ft MHHW

1 to 2 ft. of water from Reynolds Channel flooded over many streets in Long Beach the evening of (03/13/2010)

At 7.3 ft MLLW / 5.8 ft NGVD / 2.3 ft MHHW

Long Beach – Minor flooding on Virginia Avenue(L)…and on West Park Avenue (R). (2/8-9/2016)

Island Park – Minor flooding at Francis X Hegarty School. Several reports of flooding along the Canals and West End. (2/8-9/2016)

At 6.9 ft MLLW / 5.4 ft NGVD / 1.9 ft MHHW

Minor inundation along Thixton Creek canal front in Bay Park portion of East Rockaway