

Reynolds Channel at Pt Lookout

at 11.2 ft MLLW / 10.1 ft NGVD / 6.6 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.

[Jones Beach Boardwalk](#)



at 8.2 ft MLLW / 7.1 ft NGVD / 3.6 ft MHHW

[Long Beach](#)- Ocean flooded to park avenue in a few places. The bay flooded 1-2 blocks in places. Storm surge of at least 7 ft at 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 7.9 ft MLLW / 6.8 ft NGVD / 3.3 ft MHHW

Jones Beach – 1 to 3 feet of inundation in the Jones Beach Amphitheater (10/29/2012 8-10am)



at 6.8 ft MLLW / 5.7 ft NGVD / 2.2 ft MHHW

Freeport - Moderate flooding in [Freeport...south of Atlantic Avenue](#). A few cars towed and people evacuated from their homes.

Some minor flooding along canals across other towns along the south shore of Nassau. (802am 1/29/98)

At 6.7 ft MLLW / 5.6 ft NGVD / 2.1 ft MHHW

Jones Beach - Coastal flooding north of the Jones Beach circle on the [Wantagh State Parkway at Bay Parkway](#). 2 lanes in both directions were closed due to the flooding. (6/4/2012 830pm-920pm)

At 6.6 ft MLLW / 5.5 ft NGVD / 2.0 ft MHHW ...NE/N gales

Robert Moses - Noticeable erosion at Field 5 and the Water Tower beach front. Beach front flooding at Fields 2, 3, and 4. (1/3/2014)

Jones Beach - Moderate flooding along the Field 2 beach front on the ocean side. On the bay side high tide breached the fishing piers at Field 10 but caused no damage. (1/3/2014)

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

at 6.5 ft MLLW / 5.4 ft NGVD / 1.9 ft MHHW

Freeport - Moderate flooding in [Freeport...south of Atlantic Avenue](#).

Massapequa.- Minor flooding along canals (2/5/98)

at 6.4 ft MLLW / 5.3 ft NGVD / 1.8 ft MHHW

Jones Beach - Coastal flooding north of the Jones Beach circle on the [Wantagh State Parkway at Bay Parkway](#). 1 lane in both directions was closed due to the flooding. (6/4/2012 945pm)

At 6.3 ft MLLW / 5.2 ft NGVD / 1.7 ft MHHW...with 6-10 ft easterly swells.

Jones Beach - There was flooding and ponding water on the beachfront from the [West Bathhouse to the West End](#) from the water over washing the berm at Jones Beach. There were approximately 3 cuts on the beachfront from the wave action. No significant erosion to report. (12/9/2014 10 am)

Minor flooding on [Wantagh State Parkway at Bay Parkway](#)...near the Jones Beach tower.

At 6.3 ft MLLW / 5.2 ft NGVD / 1.7 ft MHHW...with 15-18 ft 10 sec easterly swells.

Minor beach erosion with tidal pooling at Central Mall, West Bathhouse, Field 1 and 2. Pooling of water close to the dune line from the Nature Center to the east side of West End 2. No flooding in the center lane of West End 2. (3/7/2013)

at 6.2 ft MLLW / 5.1 ft NGVD / 1.6 ft MHHW ...48hrs 20-25ktG30kt...7-9 ft easterly (90-100 deg) waves (4/29-30/2014)

[Zachs Bay at Jones Beach](#) - The high tide was up to the seawall at Zachs Bay

Gilgo Beach - Moderate erosion on [Gilgo Beach](#) a lot of sand moved west some of the beach that we did not put sand on are back to a flat beach. Areas west of the old coast guard station suffered major erosion.

Robert Moses - Beach flooding at each high tide through Thursday morning.

Jones Beach - Overwash on the beach occurred with standing water on the center areas of the West Bathhouse, Field 2, Field1 and West End 2.

At 6.1 ft MLLW / 5.0 ft NGVD / 1.5 ft MHHW ...with 5 to 8 ft southeasterly swells.

Jones Beach - Moderate flooding over the berm from Field 6 to Field 1 with ponding of water on the north side of the berm. The center lane at Field 1 is completely flooded.

At 6.1 ft MLLW / 5.0 ft NGVD / 1.5 ft MHHW ...with 6-8 ft se surf

Robert Moses - Big swells and very rough surf. The flooding was up to the dunes on some portions of the beach fronts. We did sustain noticeable erosion on some other points of the beach fronts as well.

At 6.0 ft MLLW / 4.9 ft NGVD / 1.4 ft MHHW

Jones Beach - Coastal flooding north of the Jones Beach circle on the [Wantagh State Parkway at Bay Parkway](#). (2/27/2013 900am)

at 5.7 ft MLLW / 4.6 ft NGVD / 1.1 ft MHHW

Jones Beach - Flooding at [Jones Beach Amphitheater](#) on (8/12/10 at 1110 pm)



at 5.4-5.6 ft MLLW / 4.3-4.5 ft NGVD / 0.8-1.0 ft MHHW ...with 4 days of 8-11 ft easterly swells and 96 hrs of 050-070 25 g 30 kt

(10/9-13/2013)

Gilgo Beach - Significant erosion along Ocean Parkway between Jones Beach State Park and Captree State Park. The erosion was within 15 feet of the eastbound roadway along Ocean Parkway at Gilgo Beach, Town of Babylon. This forced closure of some eastbound lanes while emergency repairs were underway. There were other sections along Ocean Parkway also saw significant erosion.

The State 4x4 Areas at Gilgo State Park and Sore Thumb saw high tides with no substantial impacts (protected by Robert Moses)

October 14, 2013 2:33 PM

Eastbound Ocean Parkway was closed Monday for emergency roadwork after a storm south of Long Island out over the Atlantic Ocean churned up waves that eroded a chunk of a newly rebuilt dune in Gilgo Beach. Videojournalist: Jim Staubtser (October 14, 2013)



Robert Moses - Erosion at Robert Moses fields 5 and 4 was fairly significant. We lost all sand that had naturally accrued over the course of the summer season and some of the sand that was placed on the beach at Field # 5. On the Ocean front...the high tides and rough surf did come in much higher than normal resulting in a substantial amount of beach front eroding from Field 5. We also lost some layers of sand on the beach in front of the Robert Moses water tower as well with the tides just about reaching the dune line. On the Inlet side of Robert Moses...the tides were higher than average but with no true impact beyond some minor flooding at Democrat Point.

Jones Beach - Some water going over the berm during the storm but there was no ponding of water along the beach. There seemed to be a scalloping along the shoreline followed by a sand accumulation running east to west, almost in a repeating sequence. We did lose sand and height at the shoreline and there was a drop off at the berm.