

COASTAL STORM SURVEY

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF COASTAL ENGINEERING - TOMS RIVER NJ

12:00 P.M. FRIDAY, SEPTEMBER 19, 2003



NEW JERSEY COASTLINE INCLUDING RARITAN AND DELAWARE BAY

HURRICANE ISABEL MADE LANDFALL THURSDAY AFTERNOON ALONG THE OUTER BANKS OF NORTH CAROLINA AND MOVED INLAND OVER VIRGINIA OVERNIGHT. THE EFFECTS FROM THIS STORM CONTINUE TO IMPACT THE JERSEY SHORE WITH ONSHORE WINDS AND HEAVY SURF.

HIGH TIDES YESTERDAY AFTERNOON AND EARLY MORNING TODAY HAVE RESULTED IN IMPACTS TO OUR COASTLINE STATEWIDE. THE VARYING ORIENTATION OF OUR COASTLINE COMBINED WITH THE RECENT DISPLACEMENT OF SAND FROM HURRICANE FABIAN AND TROPICAL STORM HENRI HAS RESULTED IN A WIDE RANGE OF IMPACTS FROM NO IMPACT TO WIDESPREAD MODERATE EROSION IN AREAS.

WITH THE EXCEPTION OF MONMOUTH COUNTY, GENERALLY, BEACHES WITH A SOUTHEAST ORIENTATION FAIRED THE WORST, EXPERIENCING MODERATE EROSION THROUGHOUT. BEACHES WITH A MORE EASTERLY ORIENTATION FAIRED BETTER, GENERALLY EXPERIENCING ONLY MINOR EROSION. IN MONMOUTH COUNTY, MODERATE EROSION WAS REPORTED THROUGHOUT, WITH THE NORTHERN SECTIONS HARDEST HIT.

WINDS OVERNIGHT APPEAR TO HAVE HAD THE LARGEST IMPACT ON SOUTHERN COUNTIES, ESPECIALLY CUMBERLAND, WHERE REPORTS OF DOWNED TREES AND POWER LINES ARE REPORTED THROUGHOUT.

ADDITIONAL INSPECTIONS MAY BE PERFORMED, CONDITIONS WARRANTING. A REPORT WILL BE ISSUED FROM THIS OFFICE DETAILING ANY ADDITIONAL INSPECTIONS AS THEY ARE PERFORMED.

END OF TOPIC

The following is a summary of the impacts as of 12:00 PM; Monday, September 19, 2003 listed by municipality for the entire coast:

PERTH AMBOY	No erosion, no damage.
SOUTH AMBOY	No erosion, no damage.
OLD BRIDGE	No erosion, no damage.
CLIFFWOOD BEACH	No erosion, no damage.
KEYPORT	No erosion, no damage.
UNION BEACH	10-foot horizontal loss of beach along a 500' section of bayshore.
KEANSBURG	No erosion, no damage.
BAYSHORE FLOODGATE	No erosion, no damage.
PORT MONMOUTH	No erosion, no damage.
BELFORD	No erosion, no damage.
LEONARDO	No erosion, no damage.
ATLANTIC HIGHLANDS	No erosion, no damage.
HIGHLANDS	No erosion, no damage. Sandy Hook Bay tide levels normal.
SEA BRIGHT	4' sloping cut by 40' wide throughout. Worst erosion reported near entrance to Sandy Hook.
MONMOUTH BEACH	3' - 4' sloping cut by 25' - 50' wide throughout. Worst erosion reported within vicinity of the Admiralty.
LONG BRANCH	50' horizontal loss of beach throughout. 3' - 4' sloping cut by 20' wide throughout. Seven President's State Park.
ELBERON	3' - 4' sloping cut, varying width throughout. Lake Takanassee water levels normal.
ALLENHURST	2' - 3' sloping cut, varying width throughout.
DEAL	2' - 3' sloping cut by 25' wide throughout.
LOCH ARBOUR	High tide up to seawall. Erosion unknown. Deal Lake water levels normal.
ASBURY PARK	2' - 3' vertical sloping cut by 60' wide.

OCEAN GROVE	2' - 3' vertical sloping cut by 60' wide. Debris on beach.
BRADLEY BEACH	2' - 3' vertical sloping cut by 50' wide. Windblown sand reported. Fletcher Lake water levels normal.
AVON BY THE SEA	2' - 3' vertical sloping cut by 30' - 50' wide. Windblown sand reported on Ocean Ave.
BELMAR	2' - 3' vertical sloping cut by 40' - 50' wide. Windblown sand reported. Shark River Inlet tide levels normal.
SPRING LAKE	2' - 3' vertical sloping cut by 30' wide. Windblown sand reported.
SEA GIRT	2' - 3' sloping cut by 35' wide throughout. Windblown sand reported.
MANASQUAN	1' - 2' vertical sloping cut by 30' wide throughout. Damage to benches along inlet reported. Windblown sand reported. Manasquan Inlet tide levels normal.
POINT PLEASANT	Minor erosion noted throughout.
BAYHEAD	Minor erosion noted throughout.
MANTOLOKING	Minor erosion noted throughout.
LAVALLETTE	Minor erosion noted throughout.
BRICKTOWN	Minor erosion noted throughout.
ORTLEY BEACH	Minor erosion noted throughout.
SEASIDE HEIGHTS	Minor erosion noted throughout.
SEASIDE PARK	Minor erosion noted throughout.
ISLAND BEACH STATE PARK	Minor erosion noted throughout.
BARNEGAT LIGHT	3' - 4' vertical sloped cut by 40' - 50' throughout. Barnegat Bay tide levels normal.
LOVELADIES	3' - 4' vertical sloped cut by 40' - 50' throughout.
HARVEY CEDARS	3' - 4' vertical sloped cut by 40' - 50' throughout.
NORTH BEACH	3' - 4' vertical sloped cut by 40' - 50' throughout.
SURF CITY	3' - 4' vertical sloped cut by 40' - 50' throughout.
SHIP BOTTOM	3' - 4' vertical sloped cut by 40' - 50' throughout.

LONG BEACH TOWNSHIP	3' – 4' vertical sloped cut by 40' – 50' throughout.
BRANT BEACH	3' – 4' vertical sloped cut by 40' – 50' throughout.
BEACH HAVEN	3' – 4' vertical sloped cut by 40' – 50' throughout.
HOLGATE	3' – 4' vertical sloped cut by 40' – 50' throughout.
BRIGANTINE	Minor erosion from 11 th St. to 14 th St. with damage to small section of snow fence. Elsewhere, no erosion, no damage.
ATLANTIC CITY	Minor erosion throughout. Damage to Geotube at Massachusetts Ave. Street flooding at Rhode Island Ave. Absecon Inlet tide levels normal.
VENTNOR	1' sloped erosion by 40' wide throughout. Minor damage to 800-foot section of dunes at Frankfort Ave.
MARGATE	Slight erosion, no damage.
LONGPORT	Slight erosion, no damage.
OCEAN CITY	4' vertical sloping cut by 100' from Sea Spray Ave. south to 14 th St. Ave. Elsewhere, 2' sloping cut by 100' wide throughout. Five-foot loss of dune reported from 9 th St. to 7 th St. Ten-foot loss of dune from 5 th Ave. north to Sea Crest Rd.
STRATHMERE	From Prescott Rd. to Randolph Rd., middle bulkhead exposed. Elsewhere, 2' - 2.5' sloped erosion.
WHALE BEACH	4' – 6' vertical cut adjacent to geotubes, no breach to street reported. Approx. 75' of dune fence lost at end of geotubes.
SEA ISLE CITY	85 th St. to 80 th St., 2' vertical sloped cut by 15' wide. 1' cut along dune toe from 53 rd to 46 th . Rock exposure under promenade from 44 th – 46 th St. Elsewhere, 1.5' sloped cut.
AVALON	8 th – 14 th Street, 3.5' – 4' vertical sloped cut by 25' wide. Townsend's Inlet tide levels normal.
STONE HARBOR	106 th St. – 123 rd St., 3' vertical sloped cut by 20' wide. Elsewhere, 2.5' vertical sloped cut throughout.
NORTH WILDWOOD	1' – 1.5' sloping cut by 80' wide throughout. Approximately 3' vertical by 5' horizontal cut to 300 linear feet of dunes north of 9 th Ave.
WILDWOOD CREST	1' – 1.5' sloping cut by 80' wide throughout.
WILDWOOD	1' – 1.5' sloping cut by 80' wide throughout.
CAPE MAY CITY	1' – 1.5' sloping cut by 60' wide to lower beach throughout. Slight washovers occurring.

CAPE MAY POINT STATE PARK	0.5' – 1' sloped erosion by 40' wide throughout.
CAPE MAY POINT BOROUGH	No erosion, no damage. Minor tidal flooding reported at high tide.
DELAWARE BAY AND RIVER AREA	No significant erosion. Private deck lost to house in Baypoint. Flooding reported in Gandy's Beach. Road into Sea Breeze washed out. Significant amount of downed trees and poles reported throughout the area. Delaware Bay tide levels normal.

Areas of Attention:

As a result of the recent field inspections, the following areas will be re-inspected on a regular basis:

Monmouth County

- Sea Bright moderate erosion, 40-foot horizontal loss of beach
- Monmouth Beach: moderate erosion, 25 to 50-foot horizontal loss of beach
- Long Branch: moderate erosion, 50-foot horizontal loss of beach
- Loch Arbour: Water up to sea wall

Ocean County:

- Island Beach State Park: High tide line at toe of dune system
- Long Beach Island Beaches: moderate erosion throughout

Cape May County

- Ocean City: Sea Spray Avenue south to 14th St. moderate erosion
- Whale Beach: locally severe erosion along Geotubes
- Avalon: 8th St. to 14th St. moderate erosion
- Stone Harbor: 106th St. – 123rd St. moderate erosion
- North Wildwood: North of 9th Ave. moderate erosion

Cumberland County:

- Sea Breeze: Roadway into Sea Breeze washed out.

Emergency repairs needed:

None at this time

Follow-up inspections:

Additional inspections may be performed, conditions warranting. A report will be issued from this office detailing any additional inspections as they are performed.

Erosion rating:

Moderate erosion in Monmouth County and southern Ocean County. Minor to moderate erosion in northern Ocean, Atlantic and Cape May Counties. Elsewhere no significant erosion.