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## Protecting New Jersey's back bays from climate change-fueled storms could cost \$16 billion, federal report finds Federal and state officials estimate it will cost \$16 billion to install barriers, gates and other devices just to protect

New Jersey's numerous miles of back bays along the Atlantic Coast.



by Frank Kummer Published Aug 19, 2021

In years to come, vacationers driving to the Jersey Shore might have

plans say.

Federal and state officials have drawn up plans to install the barriers and other structures needed to protect New Jersey's many miles of back bays along the Atlantic Coast, and up to 18,500 homes and businesses might have to be

elevated, all to cope with storm surges associated with climate change, the

something new to gawk at: giant, elaborate barriers complete with movable

vertical gates, stretching across some of the state's most iconic back bays.

The estimated cost: \$16 billion. Details were released Thursday in a 561-page environmental impact statement from the U.S. Army Corps of Engineers Philadelphia District and the state Department of Environmental Protection. The proposal to protect the

coastal region is a continuation of plans the Army Corps first laid out in 2019

to deal with increased flooding in the back bays, interconnected water bodies

located behind the state's barrier islands throughout Monmouth, Ocean,

Burlington, Atlantic, and Cape May Counties.

sea rise, flooding, storms, report finds

our planet warms."

to wildlife is planned.

million.

In addition to construction, it will cost nearly \$200 million a year to operate and maintain the structures, said DEP Commissioner Shawn M. LaTourette. He

associated with sea-level rise. Nor do the plans, originally requested after

noted that the flood protection is designed to deal with storm surges

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Superstorm Sandy in 2012, address the ocean front. "To better protect New Jersey's residents, communities, and economy, we must plan and prepare today for the climate change risks of tomorrow," LaTourette said. "The Back Bays study integrates years of research and presents options for protecting areas of the Jersey shore from severe storms

and flooding — risks that threaten New Jersey today and that will worsen as

Officials point to the Intergovernmental Panel on Climate Change report

to plan now. New Jersey has issued its own report on climate change that projects sea rise could exceed 1.4 feet by 2050 from a base year of 2020, and that annual precipitation will increase by 4% to 11%. The report says to expect more

intense rainstorms, like those that have already increased localized flooding,

released last week that highlights the impact of climate change and the need

coastal flooding, and "sunny day" flooding from regular high tides without rain. By 2100, the state report projects, sea level could increase 6 feet or more from 2020. Money for the project would likely come from a mix of federal, state, and local sources. The plan ultimately needs congressional authorization since it involves the Army Corps.

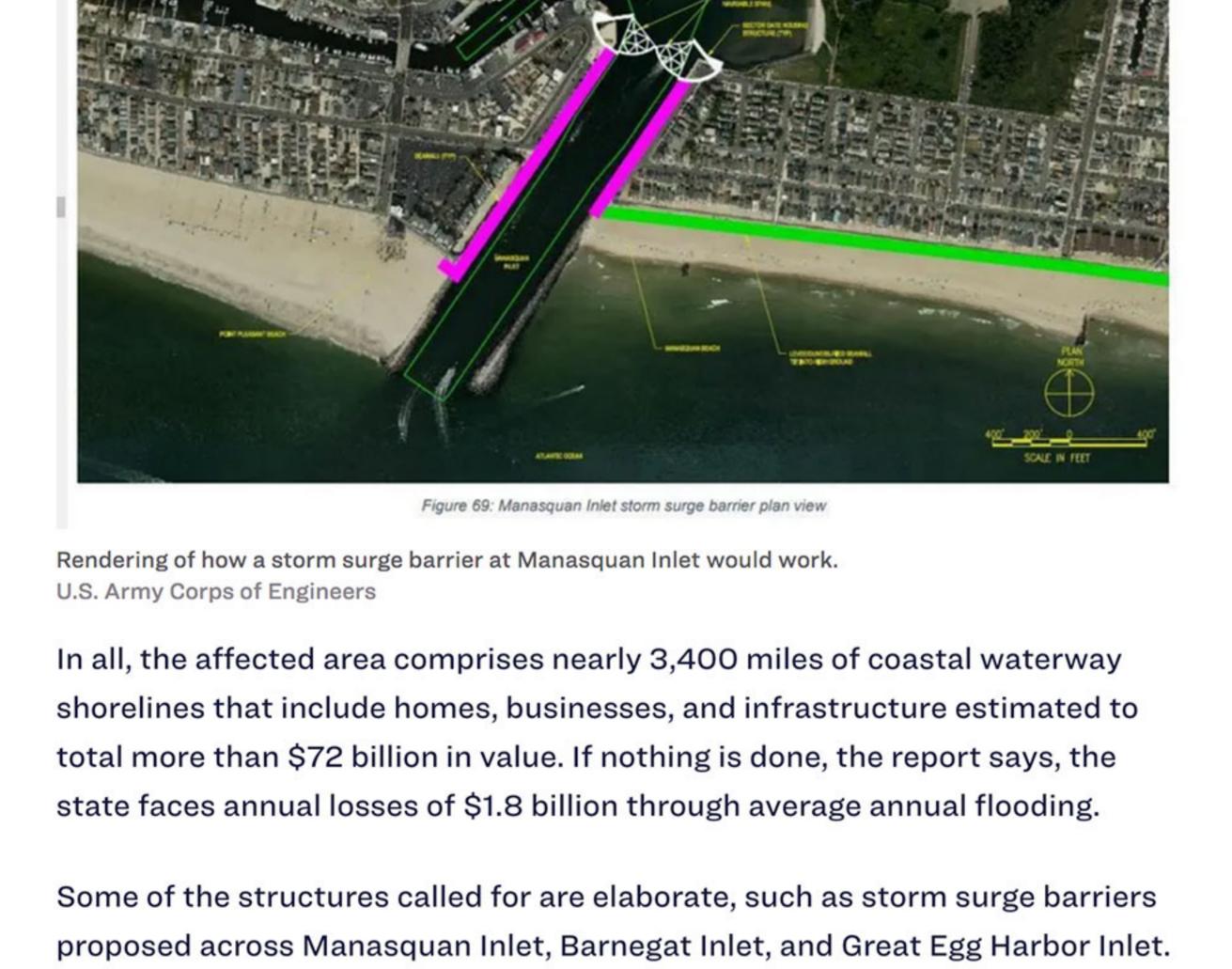
Officials acknowledge the plans could affect recreational, fishing, and

commercial vessels, as well as residents' water views. A study on the impact

and the sounds between Sea Isle City and Cape May Point.

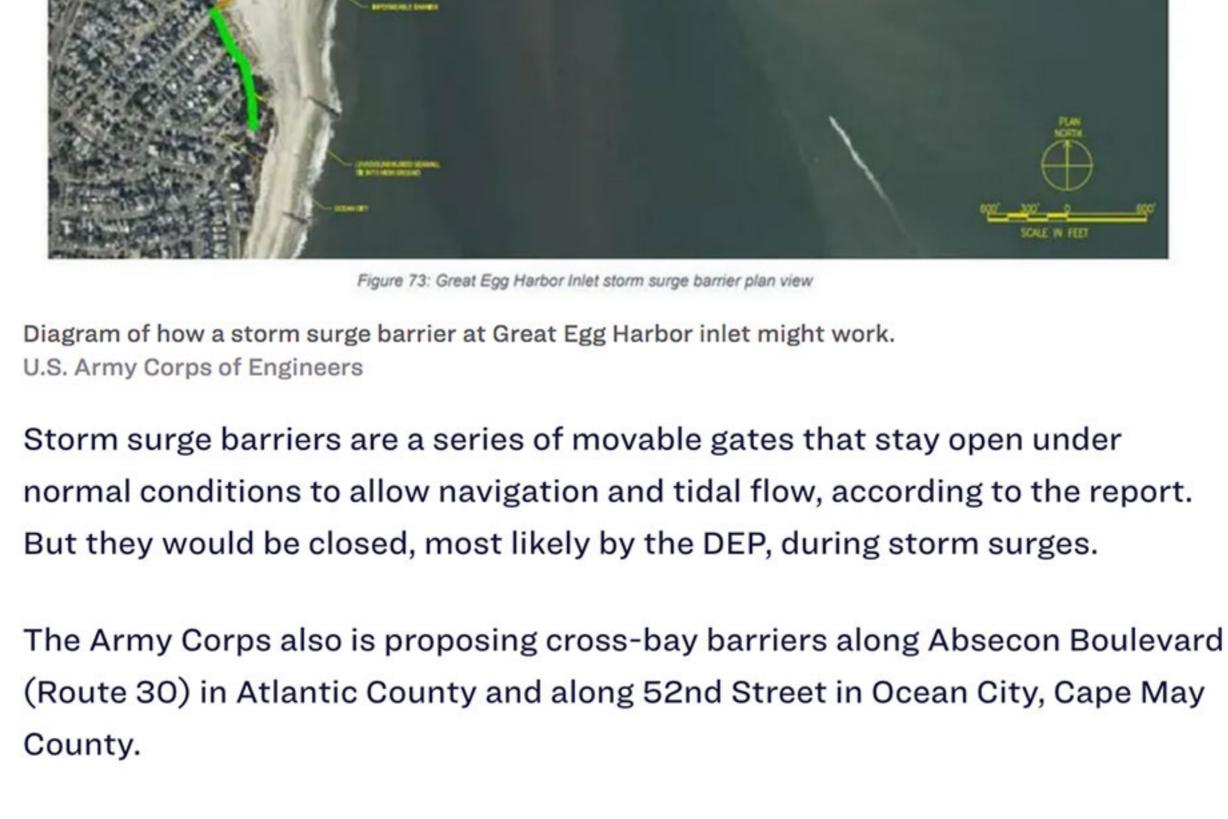
The back bays include areas of the Shark River, Manasquan River, Barnegat

Bay, Great Bay, Reeds Bay, Absecon Bay, Great Egg Harbor Bay, Ludlam Bay,



The Army Corps likens them to the Seabrook Floodgate Complex built in the

wake of Hurricane Katrina at Lake Pontchartrain in Louisiana at a cost of \$165



Cross-bay barriers would be built across the interior of bays and are similar to

storm surge barriers. However, they tend to be longer and often built with

dynamic navigable gates next to existing roads, bridges, and causeways.

Some of the structures would rise 20 feet above the average water level.

ELEVATION

FLOOD ZONE STANDARDS



withstand floods, updating emergency evacuation plans, and modernizing early warning systems. As many as 18,800 buildings are vulnerable to surges, and could need to be elevated, the report states, noting communities along Shark River, Long Beach

shorelines, and other improvements. They also call for retrofitting buildings to

homes, tide gates, elevated roads, levees, bulkheads, seawalls, living

May Point. "The potential solutions to back bay flooding are complex," said Lt. Col. Ramon Brigantti, the Army Corps' Philadelphia district commander. "But there is a clear need to consider and evaluate all options and that's what the New Jersey

Island, Tuckerton, Egg Harbor, Brigantine, Absecon, and Strathmere to Cape

Back Bays Study aims to do." Published Aug. 19, 2021



Frank Kummer 🞽 🏏 I cover regional environmental issues, including climate change, from the Poconos to Philly and it suburbs, through to the New Jersey Shore.