

Compliance Solutions
 "Today's Training... Tomorrow's Solutions"
LIMITED TIME ONLY
 2 for \$50
Online Course BLOWOUT

Environmental PROTECTION

[Contact Us](#) | [Subscribe](#) | [Advertise](#)

[Home](#) [News](#) [Features](#) [Blog](#) [Products](#) [Industry Directory](#) [Resources](#)

- AIR
- CLIMATE CHANGE
- ENERGY
- GREEN/LEED BUILDING
- RECYCLING
- TRANSPORTATION
- WASTE
- WATER



Study Adapts to New Coastal Flooding Reality

By JoAnne Castagna | Feb 23, 2017

A hurricane passes directly over New York City. In just one hour, the harbor rises 13 feet and floods over wharves, causing rivers on each side of the island city to converge.

Anyone living in New York would assume this is Hurricane Sandy that devastated the region just a few years ago. It's actually the Great Hurricane of 1821.

"This is not the first time the region faced a hurricane the size and strength of Sandy and it goes to show that another Hurricane Sandy could occur in the future," said Bryce Wisemiller, project manager, U.S. Army Corps of Engineers, New York District.

SHIMADZU
Accelerating Reliable ICP-MS Performance

- Significantly reduced operating costs
- Unrivaled sensitivity and easy maintenance



[Learn more. Click here.](#)


He said coastal storms like Sandy aren't new, but what is are the stakes. Today we have more development and people living on our coast. We also now face an unpredictable climate change and sea level rise which could further compound coastal flooding.

This image shows the entrance to the Battery Park Underpass in downtown New

2 Shares

2

ANGUIL
Emission Control Systems



Oxidizer Service
 Regardless of Original Manufacturer

FREE E-NEWS SUBSCRIPTION

I agree to this site's [Privacy Policy](#)

MOST POPULAR ARTICLES

[The Facts on Food Waste](#)

[Mutual Housing California Finishes Green Renovation in Sacramento Development](#)

[Johnson Controls Buys 5 Percent Stake in Battery Recycling Company](#)

[Canada Convicted 31 of Illegal Fishing in 2016's Fourth Quarter in Newfoundland, Labrador](#)

[Solar Power Used for Freshwater Production](#)



Wisemiller is project manager on what could possibly be one of the largest U.S. Army Corps of Engineers studies ever undertaken that will look at ways to safeguard communities in the New York and New Jersey Metropolitan region from future hurricanes.

A multi-agency team will work with communities to recommend a combination of risk reduction measures to enable adaptation to an unpredictable future. Those on the team express that what will also be required is an adaptable mindset.

Recently, Wisemiller and two other key Army Corps team members discussed the study and answered questions and concerns the public may have.

How did this study come about?

The study is entitled the New York and New Jersey Harbor and Tributaries Focus Area Feasibility Study.

« previous **1** 2 3 4 5 6 next »

You May Also Like

Powered by Sumo

[Proving insight and information on the binary options industry](#)
BinaryOptionsTr...

[Power Bulges: A Few of our Favorite Hoods](#)
www.autosporto...

[15 Crazy Photos Of Things That Shouldn't Be Possible](#)
Unbelievable Rep...

[15 Iconic Figures Like You Have Never Seen Them Before](#)
Unbelievable Rep...

[Get the Look: Mid-Century Modern Meets Southwest - Better Living SoCal](#)
Better Living SoCal

E-Mail this page

FEATURED PRODUCT

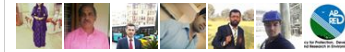


Save Time, Space, Money, and Protect Our Environment! more products

Environmental Protection... 481 likes

Like Page Contact Us

Be the first of your friends to like this



OHS & S OCCUPATIONAL HEALTH & SAFETY **BUYERS GUIDE** CLICK HERE TO VIEW

Compliance Solutions
 "Today's Training... Tomorrow's Solutions"
LIMITED TIME ONLY
2 for \$50
Online Course BLOWOUT

Environmental PROTECTION

[Contact Us](#) | [Subscribe](#) | [Advertise](#)

[Home](#) [News](#) [Features](#) [Blog](#) [Products](#) [Industry Directory](#) [Resources](#)

- AIR
- CLIMATE CHANGE
- ENERGY
- GREEN/LEED BUILDING
- RECYCLING
- TRANSPORTATION
- WASTE
- WATER



Study Adapts to New Coastal Flooding Reality

Feb 23, 2017

The study is an offshoot of a comprehensive study that was performed by the Army Corps right after Hurricane Sandy that identified risks and vulnerabilities along the North Atlantic Coast from Maine to Virginia.

"From this comprehensive study, several regions were identified for further study including the big sleeping elephant in the room that was basically ground zero for Hurricane Sandy - the New York and New Jersey Harbor and tributaries area," said Joseph Vietri, who headed the comprehensive study and who is the Director of Coastal Storm Risk Management National Center of Expertise, North Atlantic Division, U.S. Army Corps of Engineers.


SHIMADZU
Accelerating Reliable ICP-MS Performance
Click here for efficient, sensitive determination of trace elements in drinking and wastewaters

 Learn more. [Click here.](#)



2 Shares

2

ANGUIL
Emission Control Systems

Oxidizer Service
 Regardless of Original Manufacturer

FREE E-NEWS SUBSCRIPTION

I agree to this site's [Privacy Policy](#)

MOST POPULAR ARTICLES

- The Facts on Food Waste
- Mutual Housing California Finishes Green Renovation in Sacramento Development
- Johnson Controls Buys 5 Percent Stake in Battery Recycling Company
- Canada Convicted 31 of Illegal Fishing in 2016's Fourth Quarter in Newfoundland, Labrador

[Solar Power Used for Freshwater Production](#)

The above image is a flooded New York City subway system in the aftermath of Hurricane Sandy. Credit: USACE.

Wisemiller said, "An additional study will be done in this region of approximately 16 million people because it was one of the hardest hit areas during Hurricane Sandy."

"Not only that, the region is also apt to still have those same risks going into the future, even though there are a number of projects and studies on the way."

The Army Corps will work with many agencies on this study from New York and New Jersey including the New York State Department of Environmental Conservation, New Jersey Department of Environmental Protection and the New York City Office of Recovery and Resiliency.

Will work be done in my community?

"The geographic scale of this study is vast," said Olivia Cackler, Coastal Section Chief, U.S. Army Corps of Engineers, New York District.

"Typically our studies focus on a municipality or a watershed; this one encompasses many watersheds and 900 miles of coastline in New York and New Jersey with the New York and New Jersey Harbor as the focal point." Cackler is the Lead Planner for the study.

« previous 1 **2** 3 4 5 6 next »

You May Also Like

Powered by Sumo

- [PET IMPORTS](#)
petmoves.com.au
- [15 Crazy Photos Of Things That Shouldn't Be Possible](#)
Unbelievable Rep...
- [15 Iconic Figures Like You Have Never Seen Them Before](#)
Unbelievable Rep...
- [10 Countries that Popular for Sex Tourism Destinations](#)
Awesome Places ...
- [Getting A Verified Twitter Account Is Now Made Easier | JTV Digital Blog](#)
JTV Digital Blog

E-Mail this page

FEATURED PRODUCT

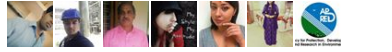


Save Time, Space, Money, and Protect Our Environment! more products

 Environmental Protecti...
481 likes

Like Page Contact Us

Be the first of your friends to like this



OHS OCCUPATIONAL HEALTH & SAFETY

BUYERS GUIDE
CLICK HERE TO VIEW



Environmental PROTECTION

[Contact Us](#) | [Subscribe](#) | [Advertise](#)

[Home](#) [News](#) [Features](#) [Blog](#) [Products](#) [Industry Directory](#) [Resources](#)

- AIR
- CLIMATE CHANGE
- ENERGY
- GREEN/LEED BUILDING
- RECYCLING
- TRANSPORTATION
- WASTE
- WATER



Study Adapts to New Coastal Flooding Reality

Feb 23, 2017

This will include communities in New York including the South Shore of Staten Island, Jamaica Bay, Rockaway peninsula and Western Long Island Sound.

Communities in New Jersey including the Raritan to Sandy Hook shoreline, Arthur Kill, the Kill Van Kull, Newark Bay, and the Passaic and Hackensack Rivers.

As well as the harbor area including the Upper Bay of the New York Harbor, the Hudson River, East River and Harlem River.

Wisemiller added that more communities may be added as the study progresses.

SHIMADZU

Accelerating Reliable ICP-MS Performance

Click here for efficient, sensitive determination of trace elements in drinking and wastewaters



Learn more. Click here.

What types of risk reduction measures are going to be constructed in my community?


Vietri said each community can help to guide the plan that will most adequately benefit them and what they value.

A full range of risk reduction measures are going to be offered to communities and include structural, nonstructural, and natural and nature-based features.

2 Shares

ANGUILTM

System Optimization Solutions



Energy Recovery
For Existing Systems Or Stand Alone Applications

FREE E-NEWS SUBSCRIPTION

I agree to this site's [Privacy Policy](#)

MOST POPULAR ARTICLES

[The Facts on Food Waste](#)

[Mutual Housing California Finishes Green Renovation in Sacramento Development](#)

[Johnson Controls Buys 5 Percent Stake in Battery Recycling Company](#)

[Canada Convicted 31 of Illegal Fishing in 2016's Fourth Quarter in Newfoundland, Labrador](#)

[Solar Power Used for Freshwater Production](#)

Cackler said that structural measures are designed to reduce the frequency and intensity of flooding. These measures can include putting up a floodwall, levee, beach fill, dune, or an offshore barrier.

Nonstructural measures focus on reducing the amount of damages without addressing the flooding. This can include such things as elevating or buying out a house, wet or dry flood proofing, evacuations, and zoning changes.

Natural and nature based features try to reproduce natural defense mechanisms. This can include creating marsh islands and wetlands, aquatic restoration and placing sand on beaches.

Communities can assess these measures and alternatives and make decisions based on what they value. Vietri said, "You have communities that value natural and nature based features a lot more than structural alternatives. They can increase what they see as important and downplay what they value less. To say that everything should be the same is totally not correct."

Cackler agreed that a one size fits all approach doesn't work. "We have a very diverse study area in terms of topography and land use. Using a combination of risk management measures allows us to tailor our approach by using the most appropriate measures for that community."

« previous 1 2 **3** 4 5 6 next »

You May Also Like

Powered by Sumo

[A Step by Step Guide to Making Indian Tomato Dal/Dal Tadka](#)
Urban Naturale

[Powerlifter Called "The Persian Hercules" Weighs 385lbs!](#)
Never Fear Failure

[15 Iconic Figures Like You Have Never Seen Them Before](#)
Unbelievable Rep..

[15 Crazy Photos Of Things That Shouldn't Be Possible](#)
Unbelievable Rep..

[SEO – Tips to Speed Up Your Site | InfoCourse](#)
infoCurse

E-Mail this page

FEATURED PRODUCT



Save Time, Space, Money, and Protect Our Environment! more products

Environmental Protection... 481 likes

Like Page Contact Us

Be the first of your friends to like this



OHS & S OCCUPATIONAL HEALTH & SAFETY **BUYERS GUIDE** CLICK HERE TO VIEW

Compliance Solutions
 "Today's Training... Tomorrow's Solutions"
LIMITED TIME ONLY
2 for \$50
Online Course BLOWOUT

Environmental PROTECTION

[Contact Us](#) | [Subscribe](#) | [Advertise](#)

[Home](#) [News](#) [Features](#) [Blog](#) [Products](#) [Industry Directory](#) [Resources](#)

- AIR
- CLIMATE CHANGE
- ENERGY
- GREEN/LEED BUILDING
- RECYCLING
- TRANSPORTATION
- WASTE
- WATER



Study Adapts to New Coastal Flooding Reality

Feb 23, 2017

By having a wide range of alternatives, communities can also compare various levels of protection. Vietri said, "We want them to compare doing a breakwater verses a wetland. Both do two different things. Yet both working together provide even something much more different. We want them to not just engage and review the alternatives in the study, but to help advice the Army Corps and to me this is a pretty significant change in how we resolve these sort of problems."


Before communities weigh in on what blend of measures they want, the U.S. Army Corps of Engineers performs a cost-benefit-ratio. Wisemiller said this ratio must show that the benefits of the project outweigh the costs. The plan with the most net economic and environmental benefits to the nation becomes apparent through this process.

SHIMADZU
Accelerating Reliable ICP-MS Performance
Click here for efficient, sensitive determination of trace elements in drinking and wastewaters

 Learn more. [Click here.](#)

How communities decide may bring tradeoffs. "There are benefits and risks with all combinations of coastal risk management measures," said Wisemiller. "The study will look to evaluate and weigh the different approaches with the full involvement and input from the regional stakeholders and the public."

2 Shares

ANGUIL
Emission Control Systems

Oxidizer Service
 Regardless of Original Manufacturer

FREE E-NEWS SUBSCRIPTION

I agree to this site's [Privacy Policy](#)

MOST POPULAR ARTICLES

- The Facts on Food Waste
- Mutual Housing California Finishes Green Renovation in Sacramento Development
- Johnson Controls Buys 5 Percent Stake in Battery Recycling Company
- Canada Convicted 31 of Illegal Fishing in 2016's Fourth Quarter in Newfoundland, Labrador

Solar Power Used for Freshwater Production

"Yes and you'll see it in everything we do for generations to come," said Vietri. "When you have something like Sandy that cleans the slate you have an opportunity to do something in a different and smarter way." He added that projects that are in place now are already benefiting from what we learned from Hurricane Sandy.

Wisemiller agreed, "Hurricane Sandy illustrated, all too well, the risks that this area faces from coastal storms, both in terms of property loss as well as the unfortunate loss of life."

Vietri said, "Places that people thought they could go to get out of the high water turned out not so much. Sandy upturned a lot of what we thought was the floodplain. Because of Sandy, the team will take a relook at the scale and scope of the floodplain and this could lead to improved hurricane evacuation planning, mapping of evacuation routes and shelter in place locations."

« previous 1 2 3 **4** 5 6 next »

You May Also Like

Powered by Sumo

[Everything-Filipino Home Page](#)
Everything-Filipino

[15 Iconic Figures Like You Have Never Seen Them Before](#)
Unbelievable Rep...

[15 Crazy Photos Of Things That Shouldn't Be Possible](#)
Unbelievable Rep...

[Public Betting Trends, Picks & Predictions, Betting Odds](#)
www.thespread.c...

[Make A T-Shirt Blanket](#)
Find My DIY

E-Mail this page

FEATURED PRODUCT



Save Time, Space, Money, and Protect Our Environment!
more products



Environmental Protection...
481 likes

Like Page Contact Us

Be the first of your friends to like this



OHS OCCUPATIONAL HEALTH & SAFETY **BUYERS GUIDE** CLICK HERE TO VIEW

Compliance Solutions
 "Today's Training... Tomorrow's Solutions"
LIMITED TIME ONLY
2 for \$50
Online Course BLOWOUT

Environmental PROTECTION

[Contact Us](#) | [Subscribe](#) | [Advertise](#)

[Home](#) [News](#) [Features](#) [Blog](#) [Products](#) [Industry Directory](#) [Resources](#)

- AIR
- CLIMATE CHANGE
- ENERGY
- GREEN/LEED BUILDING
- RECYCLING
- TRANSPORTATION
- WASTE
- WATER



Study Adapts to New Coastal Flooding Reality

Feb 23, 2017

Sandy also confirmed that some existing measures are already working. Cackler said, "It was discovered after Sandy, areas that had an Army Corps project in place, such as beach fill or levees, fared a lot better than areas that did not have a project. Even when there was some flooding, it was substantially reduced from what would have happened without the project in place."

Vietri agreed, "There are places in New Jersey where there were healthy beach and dune systems. After Sandy, the people in these areas had minimal damages. Literally, 200 yards down the beach where there was no project there was complete devastation. Houses and roads gone."

SHIMADZU
Accelerating Reliable ICP-MS Performance
Click here for efficient, sensitive determination of trace elements in drinking and wastewaters

 Learn more. [Click here.](#)

Will this study factor in possible climate change and sea level rise over the next 50 years?

Vietri said, "Whatever you think is the cause of climate change, the fact is the seas are rising. And we are going to have to take it into account in our future plans."

He added that it's predicted that future sea level rise could rise anywhere between

2 Shares

ANGUILTM
VOC & HAP Abatement

Oxidizers
 Multiple Technologies For All Industries And Applications

FREE E-NEWS SUBSCRIPTION

I agree to this site's [Privacy Policy](#)

MOST POPULAR ARTICLES

- [The Facts on Food Waste](#)
- [Mutual Housing California Finishes Green Renovation in Sacramento Development](#)
- [Johnson Controls Buys 5 Percent Stake in Battery Recycling Company](#)
- [Canada Convicted 31 of Illegal Fishing in 2016's Fourth Quarter in Newfoundland, Labrador](#)
- [Solar Power Used for Freshwater Production](#)

trying to plan a design," said Vietri.

Cackler said, "How we deal with planning uncertainty is with Resilient Adaptation." This allows us to adapt to the changing conditions as we see them in real time.

She continued, "There are three sea level rise scenarios that we have to consider when we look at our risk reduction measures."

"For example, let's say we assume that there is going to be low or moderate rate of sea level rise and we design a seawall to hold up to this. Years go by and we actually see a high rate of sea level rise. If we keep in mind Resilient Adaptation, we can construct the seawall with a larger base so that it would be possible to add to its height instead of having to build a new, larger seawall."

Vietri said that many people ask him why the Army Corps doesn't just construct measures that cover us for the highest sea level rise scenario so it will cover everything.

« previous 1 2 3 4 **5** 6 next »

You May Also Like

Powered by Sumo

[100 Years of Medical Advancements and I'm Still "Just](#)

It's Not Me, It's Y...

[15 Iconic Figures Like You Have Never Seen Them Before](#)

Unbelievable Rep...

[Why Should We Eat Blackberries](#)

HEALTHY, BEAUT...

[15 Crazy Photos Of Things That Shouldn't Be Possible](#)

Unbelievable Rep...

[The era of computational photography - Tech News TT](#)

Tech News TT

[E-Mail this page](#)

FEATURED PRODUCT



Save Time, Space, Money, and Protect Our Environment! more products



Environmental Protection... 481 likes



Be the first of your friends to like this



Compliance Solutions
 "Today's Training... Tomorrow's Solutions"
LIMITED TIME ONLY
 2 for \$50
Online Course BLOWOUT

Environmental PROTECTION

[Contact Us](#) | [Subscribe](#) | [Advertise](#)

[Home](#) [News](#) [Features](#) [Blog](#) [Products](#) [Industry Directory](#) [Resources](#)

- AIR
- CLIMATE CHANGE
- ENERGY
- GREEN/LEED BUILDING
- RECYCLING
- TRANSPORTATION
- WASTE
- WATER



Study Adapts to New Coastal Flooding Reality

Feb 23, 2017

He tells them it's counter intuitive. "If you go with the bigger plan that means you're assuming more damages. This also means your environmental footprint will be larger and your environmental impact greater," said Vietri. "For example, instead of needing 100 yards of sand to replenish a beach, you might need a thousand. Bigger impact to the environment."

Are we actually going to see something happen from this study?

There is definitely interest to get this study started said Cackler, "This study is so important that multiples staff from New York and New Jersey and the U.S. Government worked tirelessly to execute the agreement to start the study."


SHIMADZU
 Accelerating Reliable ICP-MS Performance
Click here for efficient, sensitive determination of trace elements in drinking and wastewaters

 Learn more. Click here.

Vietri agreed, "Funding is coming at a faster rate to do these studies even in this era of tight funding."

Vietri believes that in order for the study to be successful everyone has the responsibility to look at these changing conditions and to make better decisions.

2 Shares

ANGUILTM
 System Optimization Solutions

Energy Recovery
 For Existing Systems Or Stand Alone Applications

FREE E-NEWS SUBSCRIPTION

I agree to this site's [Privacy Policy](#)

MOST POPULAR ARTICLES

- [The Facts on Food Waste](#)
- [Mutual Housing California Finishes Green Renovation in Sacramento Development](#)
- [Johnson Controls Buys 5 Percent Stake in Battery Recycling Company](#)
- [Canada Convicted 31 of Illegal Fishing in 2016's Fourth Quarter in Newfoundland, Labrador](#)

[Solar Power Used for Freshwater Production](#)

tougher on developers who want to build in flood zones. "I haven't seen this in my 30 year career with the Army Corps," said Vietri.

He said he also sees this changed mindset in himself and in his colleagues. Like many in the Army Corps, he worked on several critical missions for the agency, such as Hurricane Sandy.

He said, "What gets me the most is the impact to people. The look on their faces and the helplessness. I'm also struck by their resiliency. It pushes you to try to do something bigger and better, to search for answers that would help to reduce or eliminate this human tragedy. If you think I'm passionate about it. I am. We have to be. Otherwise we will cease to exist as an organization."

Wisemiller said that the team will strive to complete the study as quickly as possible, without undercutting the quality or level of rigor in the analysis. He said that studies typically take about three years, but that this study will need more time. The study is expected to result in a report of implementable solutions that will be presented to the U.S. Congress.

How can I get involved?

Wisemiller said they are seeking public participation throughout the entire study.

He added, "The goal at the end of the day is not to have a controversial report that doesn't lead to anything productive and useful. We want something that not only informs the region of the risk that exists now and will exist further into the future, but also to provide solutions that we can implement with them."

Information about The New York and New Jersey Harbor and Tributaries Focus Area Feasibility Study and upcoming community meetings about the study may be obtained by emailing cenan-pa@usace.army.mil

« previous 1 2 3 4 5 **6** next »

About the Author

JoAnne Castagna, Ed.D. is a Public Affairs Specialist/Writer at the U.S. Army Corps of Engineers, New York District. She can be reached at joanne.castagna@usace.army.mil

You May Also Like

Powered by Sumo

Watch this dark wall transform with Milk Paint!
I Restore Stuff

15 Crazy Photos Of Things That Shouldn't Be Possible
Unbelievable Rep...

T8 V Smart TV Box | Honest Review after use. NEW for 2017
KODI and Techno...

Coffee Health Benefits Based on Scientific Research
turnaroundfitnes...

15 Iconic Figures Like You Have Never Seen Them Before
Unbelievable Repo...

E-Mail this page

FEATURED PRODUCT



Save Time, Space, Money, and Protect Our Environment! more products

Environmental Protection... 481 likes

Like Page Contact Us Be the first of your friends to like this

Environmental PROTECTION BUYERS GUIDE CLICK HERE TO VIEW