

# Future Tidal Flooding Due to Sea Level Rise

## Feature Class



## Tags

Sea Level Rise, Flooding, Waterfront Revitalization Program, Resiliency, New York City Panel on Climate Change

## Summary

This GIS dataset is provided by the New York City Department of City Planning to enable users to assess future coastal flood risk. In particular, the data show areas of New York City that are potentially vulnerable to future flooding at high tide due to sea level rise under a range of model-based scenarios for the 2020s, 2050s, 2080s, and 2100.

## Description

This geodatabase includes layers showing the projected extent of future mean higher high water (MHHW) with sea level rise. Extents are based on local sea level rise projections released by the New York City Panel on Climate Change in 2015. The data include the 10th, 25th, 50th, 75th, and 90th percentile projections for the 2020s, 2050s, 2080s, and 2100. For more information on the method used to create these projections see: <http://onlinelibrary.wiley.com/doi/10.1111/nyas.12593/epdf>.

The data illustrate the scale of potential flooding, not the exact location, and do not account for erosion, rapid subsidence, or future construction. Feature classes are contained to NYC municipal boundaries and are not reliable for areas outside of NYC.

## Credits

New York City Department of City Planning, New York City Panel on Climate Change

## Use limitations

This dataset is being provided by the Department of City Planning (DCP) on DCP's website for informational purposes only. DCP does not warranty the completeness, accuracy, content, or fitness for any particular purpose or use of the dataset, nor are any such warranties to be implied or inferred with respect to the dataset as furnished on the website. DCP and the City are not liable for any deficiencies in the completeness, accuracy, content, or fitness for any particular purpose or use the dataset, or applications utilizing the dataset, provided by any third party.

## Extent

**West** -74.263065 **East** -73.723005

**North** 40.921357 **South** 40.493474

## Scale Range

**Maximum (zoomed in)** 1:5,000

**Minimum (zoomed out)** 1:150,000,000

## ArcGIS Metadata ▶

### Topics and Keywords ▶

\* CONTENT TYPE Downloadable Data

*Hide Topics and Keywords ▲*

### Citation ▶

TITLE Future Tidal Flooding Due to Sea Level Rise

CREATION DATE 2015-01-01 00:00:00

PUBLICATION DATE 2017-05-31 00:00:00

PRESENTATION FORMATS \* digital map

*Hide Citation ▲*

### Resource Details ▶

DATASET LANGUAGES \* English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE \* vector

PROCESSING ENVIRONMENT Esri ArcGIS 10.3.1.4959

CREDITS

New York City Department of City Planning, New York City Panel on Climate Change

ARCGIS ITEM PROPERTIES

NAME DCP\_WOS\_SLR2020s02in

*Hide Resource Details ▲*

### Extents ▶

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

\* WEST LONGITUDE -74.263065

\* EAST LONGITUDE -73.723005

\* NORTH LATITUDE 40.921357

\* SOUTH LATITUDE 40.493474

EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 911549.228370

- \* EAST LONGITUDE 1060800.735457
- \* SOUTH LATITUDE 119182.722488
- \* NORTH LATITUDE 274953.774602
- \* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Constraints ►

### CONSTRAINTS

#### LIMITATIONS OF USE

This dataset is being provided by the Department of City Planning (DCP) on DCP's website for informational purposes only. DCP does not warranty the completeness, accuracy, content, or fitness for any particular purpose or use of the dataset, nor are any such warranties to be implied or inferred with respect to the dataset as furnished on the website. DCP and the City are not liable for any deficiencies in the completeness, accuracy, content, or fitness for any particular purpose or use the dataset, or applications utilizing the dataset, provided by any third party.

[Hide Resource Constraints ▲](#)

## Spatial Reference ►

### ARCGIS COORDINATE SYSTEM

- \* TYPE Projected
- \* GEOGRAPHIC COORDINATE REFERENCE GCS\_North\_American\_1983
- \* PROJECTION NAD\_1983\_StatePlane\_New\_York\_Long\_Island\_FIPS\_3104\_Feet
- \* COORDINATE REFERENCE DETAILS

#### PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102718

X ORIGIN -120039300

Y ORIGIN -96540300

XY SCALE 37212589.015695661

Z ORIGIN 0

Z SCALE 1

M ORIGIN 0

M SCALE 1

XY TOLERANCE 0.0032808333333333331

Z TOLERANCE 0.001

M TOLERANCE 0.001

HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 2263

WELL-KNOWN TEXT PROJCS

```
["NAD_1983_StatePlane_New_York_Long_Island_FIPS_3104_Feet",GEOGCS
["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID
["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT
["Degree",0.0174532925199433]],PROJECTION["Lambert_Conformal_Conic"],PARAMETER
["False_Easting",984250.0],PARAMETER["False_Northing",0.0],PARAMETER
["Central_Meridian",-74.0],PARAMETER
["Standard_Parallel_1",40.66666666666666],PARAMETER
["Standard_Parallel_2",41.03333333333333],PARAMETER
["Latitude_Of_Origin",40.16666666666666],UNIT
["Foot_US",0.3048006096012192],AUTHORITY["EPSG",2263]]
```

### REFERENCE SYSTEM IDENTIFIER

- \* VALUE 2263
- \* CODESPACE EPSG
- \* VERSION 8.6.2

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

### VECTOR ►

- \* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

### GEOMETRIC OBJECTS

- \* OBJECT TYPE composite
- \* OBJECT COUNT 2583

[Hide Vector ▲](#)

### ARCgis FEATURE CLASS PROPERTIES ►

- \* FEATURE TYPE Simple
- \* GEOMETRY TYPE Polygon
- \* HAS TOPOLOGY FALSE
- \* FEATURE COUNT 2583
- \* SPATIAL INDEX TRUE
- \* LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

## Distribution ►

### DISTRIBUTION FORMAT

NAME Feature Class

[Hide Distribution ▲](#)

## Fields ►

### DETAILS FOR OBJECT ►

- \* TYPE Feature Class
- \* ROW COUNT 2583

### FIELD OBJECTID ►

- \* ALIAS OBJECTID
- \* DATA TYPE OID
- \* WIDTH 4
- \* PRECISION 10
- \* SCALE 0
- \* FIELD DESCRIPTION  
Internal feature number.
- \* DESCRIPTION SOURCE  
Esri

\* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

*Hide Field OBJECTID ▲*

FIELD Id ►

- \* ALIAS Id
- \* DATA TYPE Integer
- \* WIDTH 4
- \* PRECISION 10
- \* SCALE 0

*Hide Field Id ▲*

FIELD grid\_code ►

- \* ALIAS grid\_code
- \* DATA TYPE Integer
- \* WIDTH 4
- \* PRECISION 10
- \* SCALE 0

*Hide Field grid\_code ▲*

FIELD Shape ►

- \* ALIAS Shape
- \* DATA TYPE Geometry
- \* WIDTH 4
- \* PRECISION 0
- \* SCALE 0
- \* FIELD DESCRIPTION  
Feature geometry.
- \* DESCRIPTION SOURCE  
Esri
- \* DESCRIPTION OF VALUES  
Coordinates defining the features.

*Hide Field Shape ▲*

FIELD Shape.STArea() ►

- \* ALIAS Shape.STArea()
- \* DATA TYPE Double
- \* WIDTH 0
- \* PRECISION 0
- \* SCALE 0

*Hide Field Shape.STArea() ▲*

FIELD Shape.STLength() ►

\* ALIAS Shape.STLength()  
\* DATA TYPE Double  
\* WIDTH 0  
\* PRECISION 0  
\* SCALE 0

[Hide Field Shape.STLength\(\) ▲](#)

[Hide Details for object ▲](#)

[Hide Fields ▲](#)

## Metadata Details ►

\* METADATA LANGUAGE English (UNITED STATES)  
METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE NAME \* dataset

\* LAST UPDATE 2017-05-30

### ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2015-07-21 09:23:10

LAST MODIFIED IN ARCGIS FOR THE ITEM 2017-05-30 21:12:39

### AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2017-05-30 20:40:08

[Hide Metadata Details ▲](#)

## Metadata Maintenance ►

### MAINTENANCE

UPDATE FREQUENCY as needed

[Hide Metadata Maintenance ▲](#)

## Thumbnail and Enclosures ►

### THUMBNAIL

THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)

## FGDC Metadata (read-only) ▼