# Identification information

* **Originator**: Connecticut Institute for Resilience and Climate Adaptation (Circa)
* **Title**: Connecticut coastal vulnerability map: Erosion Rate.
* **Geospatial Data Presentation Form**: Raster and vector digital data
* **Link**: Circa Main Server *D:\Arcmap*
* **Abstract**: This data table defines the Connecticut coastal vulnerability given erosion rate. The rate of erosion in each features is described in the field *ers\_sum* (sum of positive and negative erosion)*.* It has been divided in different categories, ranking from1 (less vulnerable) to 5 (most vulnerable). If the feature is not exposed to erosion rank is zero and *ers\_sum* is *0*. Excel file of ranking: D:\Arcmap\ct\_Index\grid\_100\_square200\erosion\rank\_erosion.xlsx.

|  |  |  |
| --- | --- | --- |
| **Rank** | **Max Erosion Rate** | **Max Erosion Rate** |
| 1 | 1000 | 2.6266 |
| 1.25 | 2.6265 | 2.252800143 |
| 1.5 | 2.252700143 | 1.879000286 |
| 1.75 | 1.878900286 | 1.505200429 |
| 2 | 1.505100429 | 1.131400571 |
| 2.25 | 1.131300571 | 0.757600714 |
| 2.5 | 0.757500714 | 0.383800857 |
| 2.75 | 0.383700857 | 0.010001 |
| 3 | 0.010001 | -0.01 |
| 3.25 | -0.0101 | -0.284642857 |
| 3.5 | -0.284742857 | -0.559285714 |
| 3.75 | 0.559185714 | -0.833928571 |
| 4 | -0.834028571 | -1.108571429 |
| 4.25 | -1.108671429 | -1.383214286 |
| 4.5 | -1.383314286 | -1.657857143 |
| 4.75 | -1.657957143 | -1.9325 |
| 5 | -1.9125 | -1000 |

* This data table defines the Connecticut coastal vulnerability due to Erosion Rate. It has been divided in different categories, ranking from one (less vulnerable) to five (most vulnerable).
* **Spatial Domain**:

north bounding: 4697924.651800 (m)

south bounding: 4623524.749677 (m)

east bounding: 1770933.490928 (m)

west bounding: 1615533.539872 (m)

* **Place:**

United States

Connecticut Coastal Cities

# Entity and attribute information

## Layers

**Data Type**; Shapefile Feature Class

**Shapefile:**

D:\Arcmap\ct\_Index\grid\_100\_square200\Final\_Indicators\new\ERS\_erosionNEW.shp

**Geometry Type**: Polygon

**Field:**

*FID*: Unique identifier of an object within the table

*Shape*: Feature geometry

*Id*: zero

*BUFF\_DIST*: the distance used to buffer each feature in the linear unit of the input features coordinate system

*ORIG\_FID*: field that contains the feature ID of the input feature for which the buffer was created

*cogs*: Council of Government that refers to the center of each feature

*city*: city that refers to the center of each feature

*Lon1*: longitude coordinate of the center of each feature decimal degree

*Lat1*: latitude coordinate of the center of each feature, decimal degree

*x*: coordinate of the center of each feature in horizontal domain, meters

*y*: coordinate of the center of each feature in vertical domain, meters

*ers\_positi: Positive Shoreline Change Rate within each feature*

*ers\_negati: Negative Shoreline Change Rate within each feature*

*ers\_sum: Sum of positive and negative Shoreline Change Rate within each feature*

*ers\_rank: rank of coastal vulnerability given by Shoreline Change Rate*

**Key words:**

Shoreline Change Rate, erosion rate, Connecticut, CIRCA, coastal vulnerability

# Metadata Reference Information

* **Author**: Caterina Massidda
* **Data:** 4/5/2019