# Identification information

* **Originator**: Connecticut Institute for Resilience and Climate Adaptation (Circa)
* **Title:** Connecticut coastal vulnerability map: Surficial Material.
* **Geospatial Data Presentation Form**: Raster and vector digital data
* **Link**: Circa Main Server *D:\Arcmap*
* **Abstract:**This data table defines the coastal vulnerability based on surficial material Surficial Materials for each features are described in the field *name*. It has been divided in five different categories, ranking from 1 (less vulnerable) to 5 (most vulnerable).

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| --- | --- | --- | --- |
| SMPOLY\_COD | DESCRIPTION | SURFICE | RANK |
| T | Talus | Natural Postglacial | 1 |
| TT | Thick Till | Thick Till | 1 |
| ST/SG | Sandy Till, Sand and Grave, some areas of dense surface boulders | End Moraine | 2 |
| TS | TS |  | 2 |
| TL | Till | Till | 2 |
| G | Gravel | Coarse | 3 |
| SM/ED | Salt Marsh and Estuarine Deposits | Natural Postglacial | 3 |
| SM/F | Salt Marsh overlying Fines | Natural Postglacial | 3.163 |
| SM/S/F | Salt Marsh overlying Sand overlying Fines | Natural Postglacial | 3.333 |
| G/F | Gravel overlying Fines |  | 3.5 |
| G/S | Gravel overlying Sand | Stacked Coarse | 3.5 |
| SG | Sand and Gravel | Coarse | 3.5 |
| SG/F/SG | Sand and Gravel overlying Fines overlying Sand and Gravel | | 3.625 |
| SG/S/SG | Sand and Gravel overlying Sand overlying Sand and Gravel | Stacked Coarse | 3.625 |
| G/S/F | Gravel overlying Sand overlying Fines |  | 3.75 |
| SG/F | Sand and Gravel overlying Fines | Coarse over Fine | 3.75 |
| SG/S/F | Sand and Gravel overlying Sand overlying Fines | Coarse over Fine | 3.75 |
| S/G | Sand overlying Gravel |  | 3.75 |
| F/G | Fines overlying Gravel |  | 3.833 |
| S/SG | Sand overlying Sand and Gravel | Stacked Coarse | 3.833 |
| F/SG | Fines overlying Sand and Gravel | Fine over Coarse | 3.916 |
| S/F/SG | Sand overlying Fines overlying Sand and Gravel | Stacked Coarse | 3.916 |
| SG/S | Sand and Gravel overlying Sand |  | 4 |
| A | Alluvium | Natural Postglacial | 4 |
| AF | Artificial Fill | Artificial Fill | 4 |
| F/S | Fines overlying Sand | Fine over Coarse | 4 |
| S | Sand | Coarse | 4 |
| A/F/G | Alluvium overlying Fines overlying Gravel | Natural Postglacial | 4.125 |
| A/SG | Alluvium overlying Sand and Gravel | Natural Postglacial | 4.25 |
| A/SG/F | Alluvium overlying Sand and Gravel overlying Fines | | 4.312 |
| A/SG/S | Alluvium overlying Sand and Gravel overlying Sand | Natural Postglacial | 4.312 |
| A/S/SG | Alluvium overlying Sand overlying Sand and Gravel | | 4.375 |
| A/SG/S/F | Alluvium overlying Sand and Gravel overlying Sand overlying Fines | | 4.437 |
| A/S/F | Alluvium overlying Sand overlying Fines | Natural Postglacial | 4.437 |
| A/F | Alluvium overlying Fines | Natural Postglacial | 4.5 |
| A/F/S | Alluvium overlying Fines overlying Sand | Natural Postglacial | 4.5 |
| A/S | Alluvium overlying Sand | Natural Postglacial | 4.5 |
| B | Beach | Natural Postglacial | 4.5 |
| S/F | Sand overlying Fines | Coarse over Fine | 4.5 |
| SW/SG | Swamp overlying Sand and Gravel |  | 4.625 |
| SW/S/SG | Swamp overlying Sand overlying Sand and Gravel | | 4.75 |
| SW/S | Swamp overlying Sand |  | 4.833 |
| SW/S/F | Swamp overlying Sand overlying Fines |  | 4.916 |
| F | Fines | Fine | 5 |
| SW | Swamp | Natural Postglacial | 5 |
| SW/F | Swamp overlying Fines | Natural Postglacial | 5 |
| SW/F/S | Swamp overlying Fines overlying Sand | Natural Postglacial | 5 |
| W | Water | Water | 5 |
| SM | salt marsh |  | 3 |
| TA | talus |  | 1 |
| A/F/SG | Alluvium overlying Fines overlying Sand and Gravel | | 4.312 |
| G/SG | Gravel overlying Sand and Gravel |  | 3.17 |
| G/SG/S | Gravel overlying Sand and Gravel overlying Sand | | 3.33 |

* **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\identyLayers\Identyfy\_buffer\_square100\_SURFICIAL\_MATERIAL\_POLY2\_RANKED.shp

D:\Arcmap\ct\_Index\grid\_100\_square200\Final\_Indicators\new\SURFICIAL\_MATERIALNEW.shp

**Geometry Type:** Polygon

**Field:**

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

*Shape*: Feature geometry

*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

*rank*: rank of coastal vulnerability given by surficial material

*name*: most common type of material/s most within each feature

**Key words:**

Surficial material, geology, Connecticut, CIRCA, coastal vulnerability

# Metadata Reference Information

* **Author**: Caterina Massidda
* **Data**: 3/20/2019