

Map Viewer Data Layers Guide

Sea Level Scenario Sketch Planning Tool, Version 4, December 2025

Contents

SLR Scenario Data Layers 2

Current Flood Risk Layers..... 3

Florida Base Layers..... 5

This document describes the data layers available in the Sea Level Scenario Sketch Planning Tool map viewer. There are three types of Map Services available in the Layers Widget. Each map service contains multiple data layers.

SLR Scenario Data Layers:

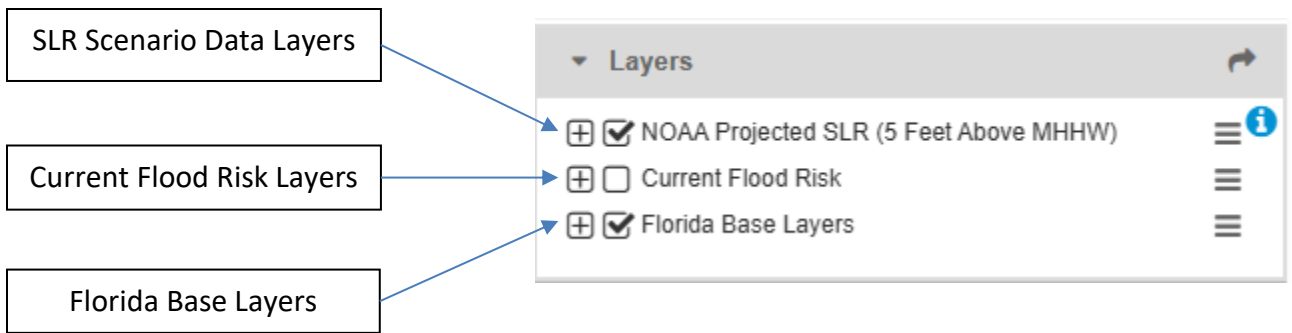
- Layers showing the extent and depth of inundation from SLR and potentially affected transportation facilities.
- These layers are specific to a SLR scenario and are added through the Scenario Selector. There are 20 SLR scenarios that can be loaded to the map viewer (up to 6 at a time).
- Map Service is named like: “NOAA Projected SLR (5 Feet Above MHHW)”

Current Flood Risk Layers

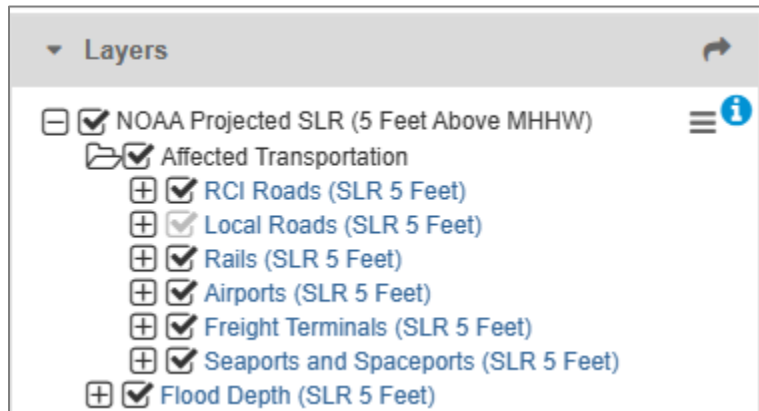
- Current flood risk layers: 100-year and 500-year floodplains and storm surge zones.
- These layers are in the Layers Widget by default and cannot be removed.

Florida Base Layers

- Analyses of affected infrastructure, including RCI Roads, Local Roads, Rails, and Infrastructure Facilities.
- Coastal risk-management and resilience regulatory zones in Florida, including the Coastal Building Zone, Areas at Risk Due to SLR (SLIP), and Coastal High Hazard Area.
- Reference layers, including NOAA Tide Stations, County Boundary, and a Florida Digital Elevation Model (DEM).
- These layers are in the Layers Widget by default and cannot be removed.



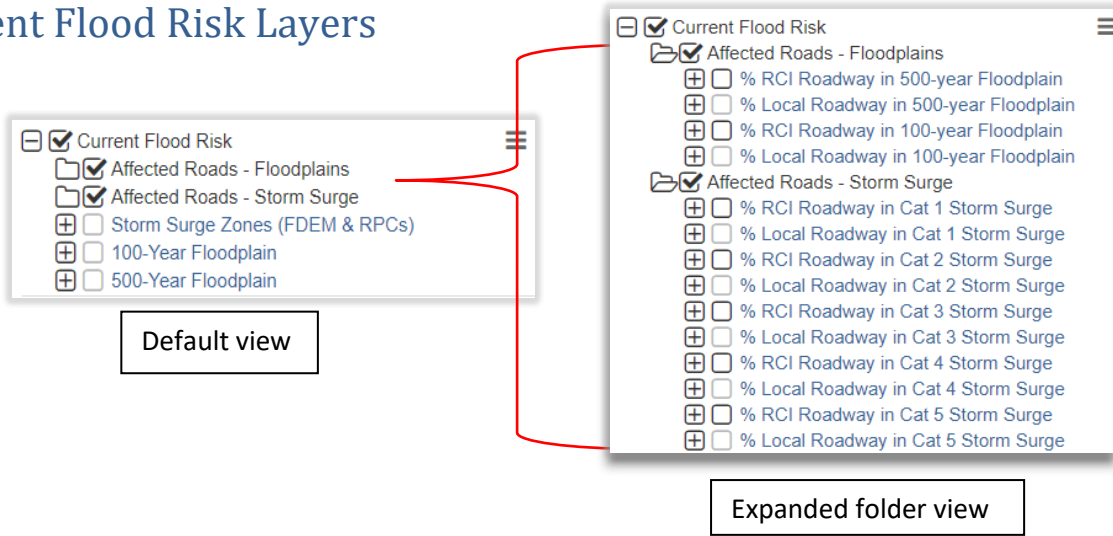
SLR Scenario Data Layers



Sub-Folder	Layer Name	Descript
Affected Transportation	RCI Roads	Segments of roadways affected under the selected SLR scenario. Roads data from Florida Dept of Transportation (FDOT) Roads Characteristics Inventory (RCI) database, April 2025; analysis by UF GeoPlan, September 2025.
Affected Transportation	Local Roads	Segments of local roadways affected under the selected SLR scenario. Roads data from U.S. Census Bureau TIGER/Line database, December 2023; analysis by UF GeoPlan, September 2025.
Affected Transportation	Rails	Segments of railways affected under the selected SLR scenario. Rails data from Florida Dept of Transportation (FDOT) Strategic Intermodal System (SIS), January 2025, and Freight and Rail Office (FRO), January 2024; analysis by UF GeoPlan, September 2025.
Affected Transportation	Airports	Acres and percentage of airports affected under the selected SLR scenario. Airport data from the Florida Dept of Transportation (FDOT) Strategic Intermodal System (SIS), January 2025, the US Bureau of Transportation Statistics (BTS), August/November 2024, and UF GeoPlan, September 2025; analysis by UF GeoPlan, September 2025.
Affected Transportation	Freight Terminals	Acres and percentage of freight terminals affected under the selected SLR scenario. Freight terminal data from Florida Dept of Transportation (FDOT) Strategic Intermodal System (SIS), January 2025, and UF GeoPlan, September 2025; analysis by UF GeoPlan, September 2025.
Affected Transportation	Seaports and Spaceports	Acres and percentage of seaports and spaceports affected under the selected SLR scenario. Seaport data from Florida Dept of Transportation (FDOT) Strategic Intermodal System (SIS), January 2025, and UF GeoPlan, September 2025; analysis by UF GeoPlan, September 2025.
N/A	Flood Depth	Flood depth associated with projected sea level rise (SLR) over mean higher high water (MHHW). Inundation depth values from the National Oceanic and Atmospheric

		Administration (NOAA), January 2023; flood depth values reclassified by UF GeoPlan, August 2025.
--	--	--

Current Flood Risk Layers

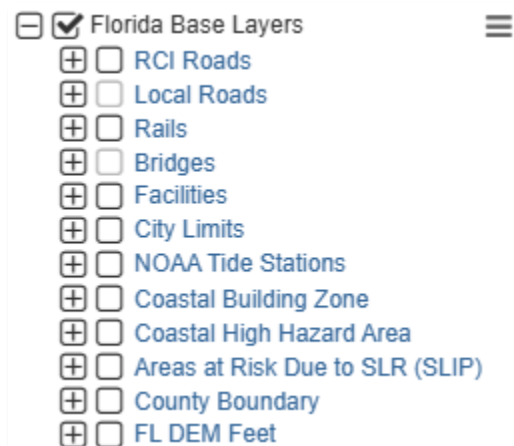


Sub-Folder	Layer Name	Descript
Affected Roads	% RCI Roadway in 100-year Floodplain	Percent of road segment in 100-year floodplain. Floodplain data from Federal Emergency Management Agency (FEMA) Digital Flood Insurance Rate Maps (DFIRM) database; Roads data of FL Dept of Transportation Roads Characteristics Inventory (RCI) database, April 2025; analysis by UF GeoPlan, September 2025.
Affected Roads	% Local Roadway in 100-year Floodplain	Percent of road segment in 100-year floodplain. Floodplain data from Federal Emergency Management Agency (FEMA) Digital Flood Insurance Rate Maps (DFIRM) database; Roads data from U.S. Census Bureau TIGER/Line database, December 2023; analysis by UF GeoPlan, September 2025.
Affected Roads	% RCI Roadway in 100 & 500-year Floodplain	Percent of road segment in 100 & 500-year floodplain. Floodplain data from Federal Emergency Management Agency (FEMA) Digital Flood Insurance Rate Maps (DFIRM) database; Roads data of FL Dept of Transportation Roads Characteristics Inventory (RCI) database, April 2025; analysis by UF GeoPlan, September 2025.
Affected Roads	% Local Roadway in 100 & 500-year Floodplain	Percent of road segment in 100 & 500-year floodplain. Floodplain data from Federal Emergency Management Agency (FEMA) Digital Flood Insurance Rate Maps (DFIRM) database; Roads data from U.S. Census Bureau TIGER/Line database, December 2023; analysis by UF GeoPlan, September 2025.
Affected Roads	% RCI Roadway in Cat 1 Storm Surge	Percent of road segment in Hurricane Category 1 storm surge. Surge zones from FL Division of Emergency Management/

		Florida Regional Planning Councils; Roads data from FL Dept of Transportation Roads Characteristics Inventory (RCI) database, April 2025; analysis by UF GeoPlan, September 2025.
Affected Roads	% Local Roadway in Cat 1 Storm Surge	Percent of road segment in Hurricane Category 1 storm surge. Surge zones from FL Division of Emergency Management/ Florida Regional Planning Councils; Roads data from U.S. Census Bureau TIGER/Line database December 2023; analysis by UF GeoPlan, September 2025.
Affected Roads	% RCI Roadway in Cat 2 Storm Surge	Percent of road segment in Hurricane Category 2 storm surge. Surge zones from FL Division of Emergency Management/ Florida Regional Planning Councils; Roads data from FL Dept of Transportation Roads Characteristics Inventory (RCI) database, April 2025; analysis by UF GeoPlan, September 2025.
Affected Roads	% Local Roadway in Cat 2 Storm Surge	Percent of road segment in Hurricane Category 2 storm surge. Surge zones from FL Division of Emergency Management/ Florida Regional Planning Councils; Roads data from U.S. Census Bureau TIGER/Line database December 2023; analysis by UF GeoPlan, September 2025.
Affected Roads	% RCI Roadway in Cat 3 Storm Surge	Percent of road segment in Hurricane Category 3 storm surge. Surge zones from FL Division of Emergency Management/ Florida Regional Planning Councils; Roads data from FL Dept of Transportation Roads Characteristics Inventory (RCI) database, April 2025; analysis by UF GeoPlan, September 2025.
Affected Roads	% Local Roadway in Cat 3 Storm Surge	Percent of road segment in Hurricane Category 3 storm surge. Surge zones from FL Division of Emergency Management/ Florida Regional Planning Councils; Roads data from U.S. Census Bureau TIGER/Line database December 2023; analysis by UF GeoPlan, September 2025.
Affected Roads	% RCI Roadway in Cat 4 Storm Surge	Percent of road segment in Hurricane Category 4 storm surge. Surge zones from FL Division of Emergency Management/ Florida Regional Planning Councils; Roads data from FL Dept of Transportation Roads Characteristics Inventory (RCI) database, April 2025; analysis by UF GeoPlan, September 2025.
Affected Roads	% Local Roadway in Cat 4 Storm Surge	Percent of road segment in Hurricane Category 4 storm surge. Surge zones from FL Division of Emergency Management/ Florida Regional Planning Councils; Roads data from U.S. Census Bureau TIGER/Line database December 2023; analysis by UF GeoPlan, September 2025.
Affected Roads	% RCI Roadway in Cat 5 Storm Surge	Percent of road segment in Hurricane Category 5 storm surge. Surge zones from FL Division of Emergency Management/ Florida Regional Planning Councils; Roads data from FL Dept of Transportation Roads Characteristics Inventory (RCI)

		database, April 2025; analysis by UF GeoPlan, September 2025.
Affected Roads	% Local Roadway in Cat 5 Storm Surge	Percent of road segment in Hurricane Category 5 storm surge. Surge zones from FL Division of Emergency Management/ Florida Regional Planning Councils; Roads data from U.S. Census Bureau TIGER/Line database December 2023; analysis by UF GeoPlan, September 2025.
N/A	Storm Surge Zones (FDEM/ RPCs)	Storm Surge Inundation Zones developed for Florida Statewide Regional Evacuation Update Study. Modeled using SLOSH MOMs (maximum of maximums). Source: FL Division of Emergency Management & Regional Planning Councils, August 2021.
N/A	100-Year Floodplain (FEMA)	Extent of the current 100-year floodplain or 1%-annual chance flood event. Source: Federal Emergency Management Agency (FEMA) Digital Flood Insurance Rate Maps (DFIRM) database, December 2024.
N/A	500-Year Floodplain (FEMA)	Extent of the current 500-year floodplain or 0.2%-annual chance flood event. Source: Federal Emergency Management Agency (FEMA) Digital Flood Insurance Rate Maps (DFIRM) database, December 2024.

Florida Base Layers



Sub-Folder	Layer Name	Layer Descript
N/A	RCI Roads	RCI On & Off Systems Roadways. Extracted from FL Department of Transportation Roads Characteristics Database, April 2025.
N/A	Local Roads	TIGER Roadways. Extracted from the US Census Bureau TIGER/Line dataset, December 2023.

N/A	Rails	Railways. Extracted from Florida Dept of Transportation (FDOT) Strategic Intermodal System (SIS), January 2025, and Freight and Rail Office (FRO), January 2024.
N/A	Bridges	Bridge Structures. Created by the UF GeoPlan Center from various sources, September 2025.
N/A	Infrastructure Facilities	Infrastructure Facilities. Extracted from the Florida Dept of Transportation (FDOT) Strategic Intermodal System (SIS), January 2025, the US Bureau of Transportation Statistics (BTS), August/November 2024, and UF GeoPlan, September 2025.
N/A	City Limits	Florida City Limits. Extracted from the US Census Bureau Designated Places and Incorporated Places, 2023.
N/A	NOAA Tide Stations	NOAA CO-OPS tide stations in Florida with associated datum information, November 2024.
N/A	Coastal Building Zone	Coastal Building Zone (CBZ) of the State of Florida, as defined by the Florida Department of Environmental Protection (FDEP), June 2021.
N/A	Areas at Risk Due to SLR (SLIP)	Area at Risk Due to Sea Level Rise in Florida, as defined by the Florida Department of Environmental Protection (FDEP), June 2024.
N/A	Coastal High Hazard Area	Coastal High Hazard Area in Florida, as defined by the Florida Regional Planning Councils and Florida Division of Emergency Management, August 2021.
N/A	County Boundaries	Florida County Boundaries. Created from US Census Bureau TIGER data, September 2015.
N/A	FL DEM Feet	Florida Digital Elevation Model (DEM) mosaic of Lidar and best available elevation data from various sources. Compiled by the UF GeoPlan Center, August 2020.