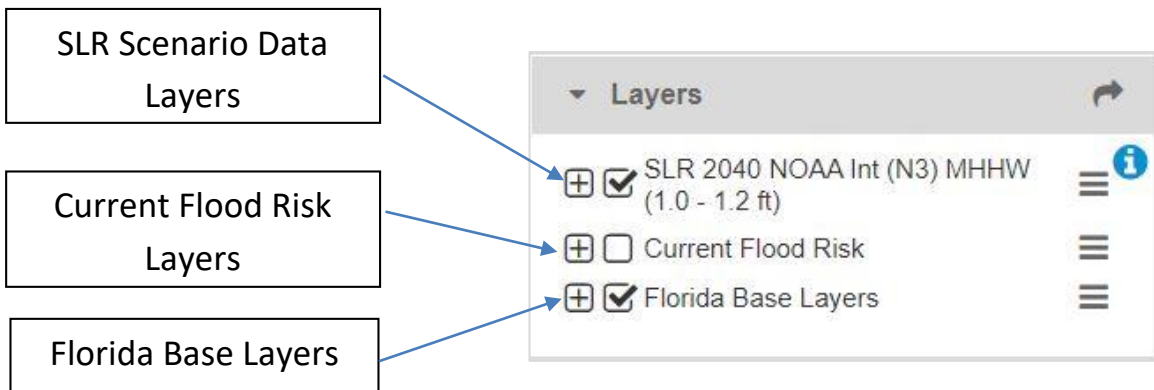# Map Viewer Data Layers Guide
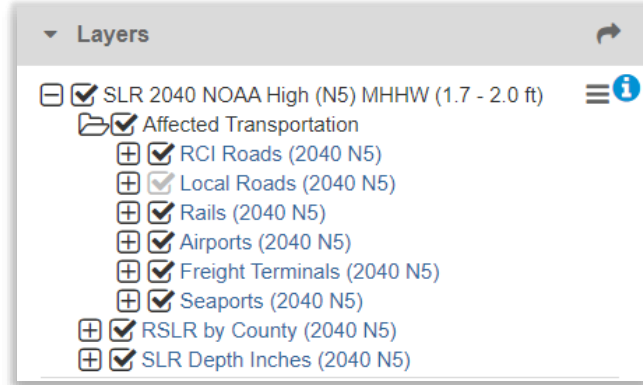
Sea Level Scenario Sketch Planning Tool, Version 3

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. There are 45 SLR scenarios that can be loaded to the map viewer (not all at the same time).
    - These layers are added through the Scenario Selector
    - Map Service is named like: "SLR 2080 USACE High (C4) MHHW (3.4 – 3.7 ft).
- **Current Flood Risk Layers**
    - Current flood risk layers, including 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**
    - Base layers used in creation of SLR inundation layers and analyses of affected infrastructure, including Digital Elevation Model (DEM), RCI Roads, Local Roads, Rails, and Infrastructure Facilities.
    - Also includes a polygon layer showing the areas mapped for this project.
    - These layers are in the Layers Widget by default and cannot be removed.

This document will describe the individual data layers contained in each map service.
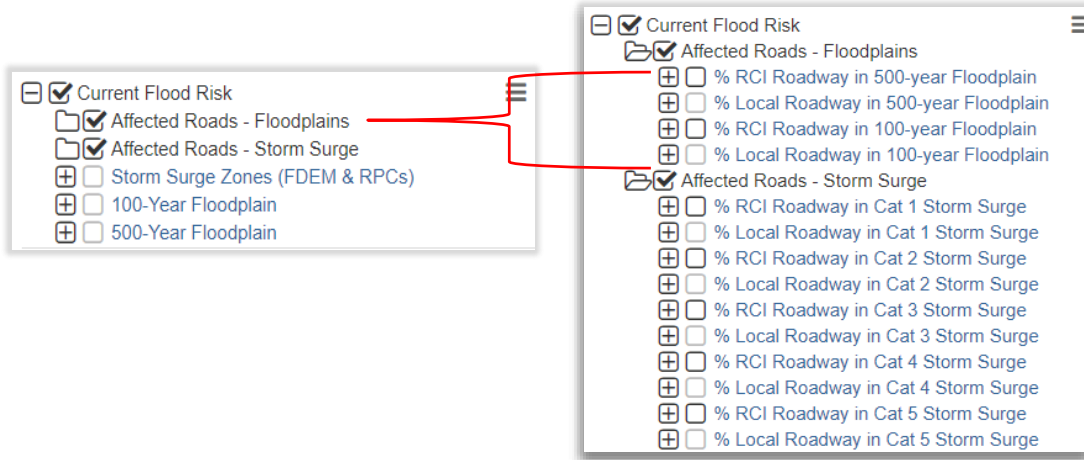
SLR Scenario Data Layers

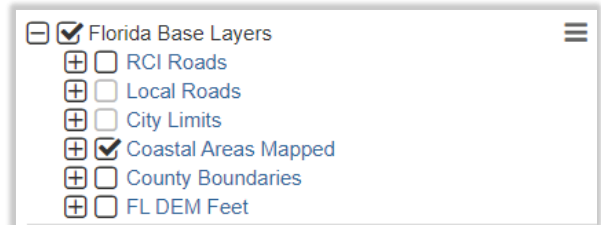| Sub-Folder	Layer Name	Descript
Affected Transportation	**RCI Roads**	Feet and percent of road segment affected under the selected SLR scenario. Roads data from Florida Dept of Transportation (FDOT) Roads Characteristics Inventory (RCI) database; analysis by UF GeoPlan.
Affected Transportation	**Local Roads**	Feet and percent of local road segment affected under the selected SLR scenario. Roads data from U.S. Census Bureau TIGER/Line database; analysis by UF GeoPlan.
Affected Transportation	**Rails**	Feet and percent of railways affected under the selected SLR scenario. Rails data from Florida Dept of Transportation (FDOT) Strategic Intermodal System (SIS) and Transportation Statistics Office (TranStat); analysis by UF GeoPlan.
Affected Transportation	**Airports**	Acres and percent of airports affected under the selected SLR scenario. Airport data from the Florida Dept of Transportation (FDOT) Strategic Intermodal System (SIS) and UF GeoPlan; analysis by UF GeoPlan.
Affected Transportation	**Freight Terminals**	Acres and percent of freight terminals affected under the selected SLR scenario. Freight terminal data from Florida Dept of Transportation (FDOT) Strategic Intermodal System (SIS) and UF GeoPlan; analysis by UF GeoPlan.
Affected Transportation	**Seaports**	Acres and percent of seaports affected under the selected SLR scenario. Seaport data from Florida Dept of Transportation (FDOT) Strategic Intermodal System (SIS) and UF GeoPlan; analysis by UF GeoPlan
N/A	**RSLR by County**	Relative Sea Level Rise (RSLR) by County. UF GeoPlan Center generated SLR scenarios by county using local tide stations. This layer indicates the SLR projection, tide station used for the SLR projection, and the amount of SLR on top of MHHW.
N/A	**SLR Depth Inches**	Sea Level Rise (SLR) Inundation Depth (in inches). This layer represents the depth (in inches) of inundation for the selected SLR scenario.

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 from FL Dept of Transportation Roads Characteristics Inventory (RCI) database; analysis by UF GeoPlan.
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; analysis by UF GeoPlan.
Affected Roads	**% RCI Roadway in 500-year Floodplain**	Percent of road segment in 500-year floodplain. Floodplain data from Federal Emergency Management Agency (FEMA) Digital Flood Insurance Rate Maps (DFIRM) database; Roads data from FL Dept of Transportation Roads Characteristics Inventory (RCI) database; analysis by UF GeoPlan.
Affected Roads	**% Local Roadway in 500-year Floodplain**	Percent of road segment in 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; analysis by UF GeoPlan.
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; analysis by UF GeoPlan.
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; analysis by UF GeoPlan.
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; analysis by UF GeoPlan.
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; analysis by UF GeoPlan.
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; analysis by UF GeoPlan.
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; analysis by UF GeoPlan.
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; analysis by UF GeoPlan.
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; analysis by UF GeoPlan.
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; analysis by UF GeoPlan.
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; analysis by UF GeoPlan.
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.
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. Used FGDL version DFIRM_FLDHAZ_OCT19
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. Used FGDL version DFIRM_FLDHAZ_OCT19

Florida Base Layers

Sub-Folder	Layer Name	Descript
N/A	RCI Roads	RCI On & Off Systems Roadways. Extracted from FL Department of Transportation Roads Characteristics Database, October 2019.
N/A	Local Roads	TIGER Roadways. Extracted from the 2018 version of the US Census Bureau TIGER/Line dataset.
N/A	Rails	Railways. Extracted from FL Department of Transportation Strategic Intermodal System (SIS - 2019) and Transportation Statistics Office (TranStat - 2014).
N/A	Infrastructure Facilities	Infrastructure Facilities. Extracted from the 2019 Strategic Intermodal System (SIS) and from the UF GeoPlan Center.
N/A	City Limits	Florida City Limits. Compiled by the GeoPlan Center using tax code boundaries as defined in 2018 county parcel data from the Florida Department of Revenue (FDOR).
N/A	Coastal Areas Mapped	Polygon layer showing the extent of county areas mapped for this project.
N/A	County Boundaries	Florida County Boundaries. Created from US Census Bureau TIGER data.
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 in 2020.