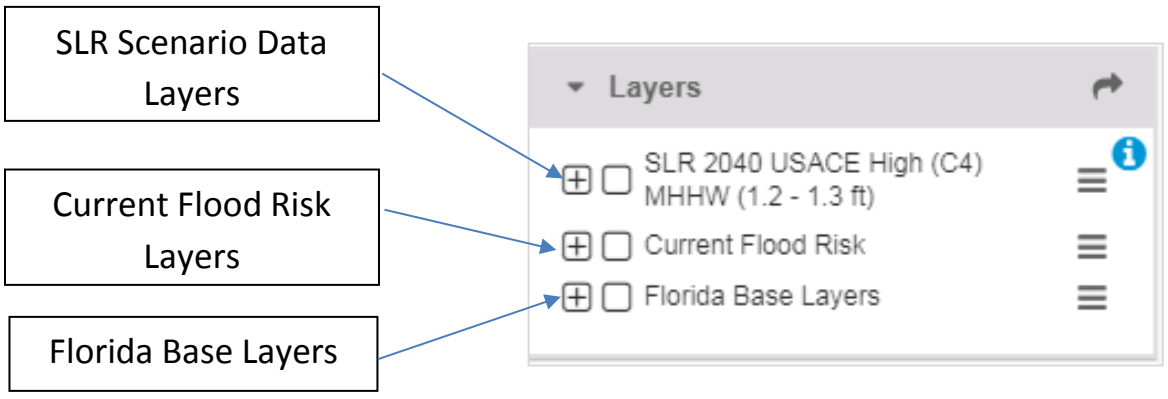
Map Viewer Data Layers Guide

Sea Level Scenario Sketch Planning Tool, Version 2

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 20 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.
- **Florida Base Layers**
  - Base layers used in creation of SLR inundation layers and analyses of affected infrastructure, including Digital Elevation Model (DEM) and RCI Roads.
  - Also includes a polygon layer showing the areas mapped for this project.
  - These layers are in the Layers Widget by default.

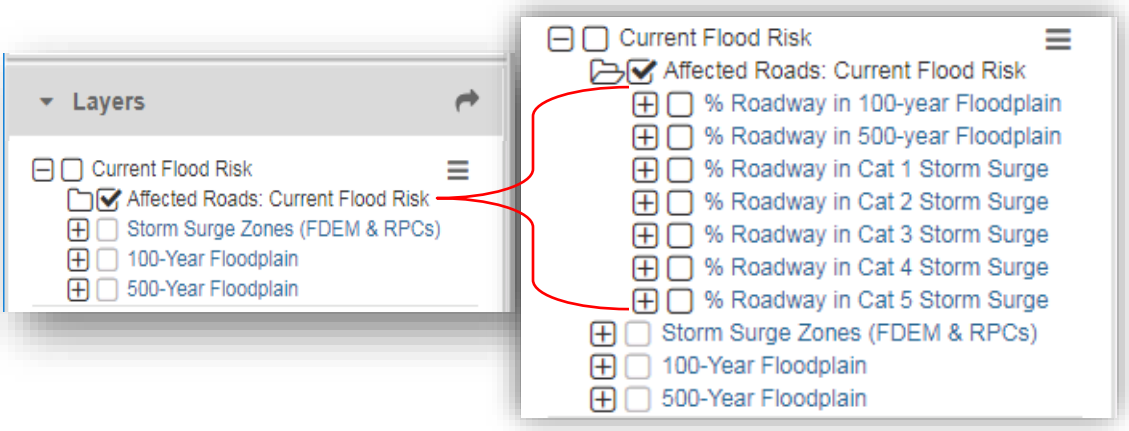
This document will describe the individual data layers contained in each map service.



SLR Scenario Data Layers

Sub-Folder	Layer Name	Descript
Affected Transportation	**SIS Highways**	Feet and percent of Strategic Intermodal System (SIS) Highway segments affected under the selected SLR scenario. SIS data obtained from FL Dept of Transportation
Affected Transportation	**Roads**	Feet and percent of road segment affected under the selected SLR scenario. Roads data from FL Dept of Transportation Roads Characteristics Inventory (RCI) database; analysis by UF GeoPlan.
Affected Transportation	**SIS Rails**	Feet and percent of Strategic Intermodal System (SIS) rails affected under the selected SLR scenario. SIS data obtained from FL Dept of Transportation
Affected Transportation	**SIS Facilities**	Feet and percent of Strategic Intermodal System (SIS) facilities affected under the selected SLR scenario. SIS data obtained from FL Dept of Transportation
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 of inundation for the selected SLR scenario.

Current Flood Risk Layers



Sub-Folder	Layer Name	Descript
Affected Roads	**% 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	**% 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	**% 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	**% 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	**% 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	**% 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	**% 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.
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. Obtained from: http://www.floridadisaster.org/gis/data/
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. At the time of analysis, updated DFIRMS were not available for Palm Beach and Sarasota counties.
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. At the time of analysis, updated DFIRMS were not available for Palm Beach and Sarasota counties.

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, July 2016.
N/A	Coastal Areas Mapped	Polygon layer showing the extent of county areas mapped for this project.
N/A	FL DEM Feet	Florida Digital Elevation Model (DEM) mosaic of Lidar and best available elevation data used for SLR mapping. Various Sources: National Elevation Dataset 1/9 arc collection, Florida's Water Management Districts, Miami-Dade County, and Florida Fish and Wildlife Conservation Commission.