

# Map Packages Data Layers Guide

## Sea Level Scenario Sketch Planning Tool, Version 2

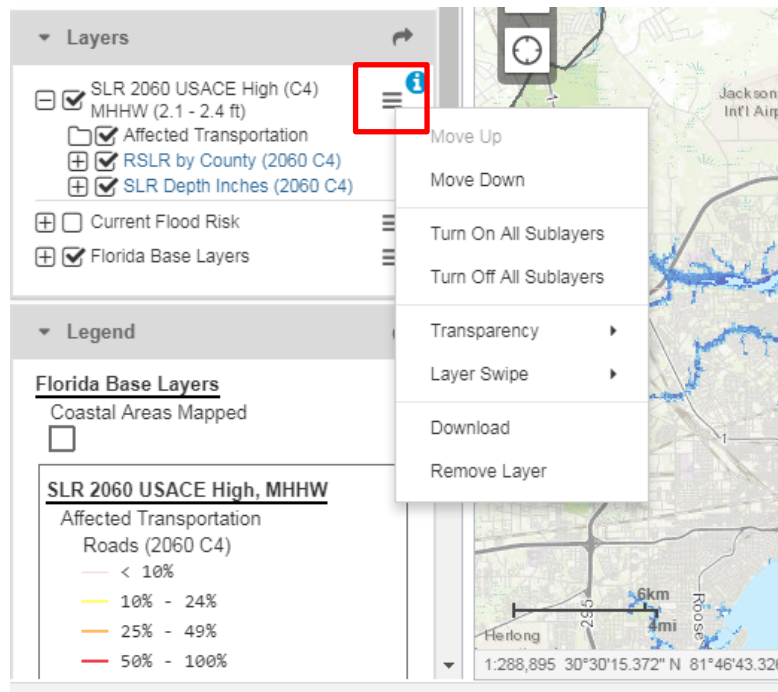
The GIS data displayed in the Sea Level Scenario Sketch Planning Tool map viewer can be downloaded as map packages directly from the map viewer.

A map packages (.mpk) contains a map document (.mxd) and the data referenced by the layers it contains, packaged into one convenient, portable file. The map packages were created with ArcGIS 10.4x, but should be readable using ArcMap 10.1 through 10.5. Alternatively, the GIS data in ArcGIS file geodatabase 10.4.1 format can be downloaded from the data download page <https://sls.geoplan.ufl.edu/download-data/>

This document describes how to download map packages and the GIS data included in the map package downloads.

### How to Download Map Packages

1. In the Map Viewer, click on the Layer Controls menu (the icon with three horizontal bars).



2. Click on "Download". Save zip file to desired location.
3. Unzip/ extract the downloaded file.
4. Open the map package in ArcMap.

## Data Layers Included in the Map Packages

### SLR Scenario Data Layers Map Package

If you download a SLR Scenario Map Package, then each download contains six GIS data layers. These six layers are specific to a SLR scenario. Currently, there are a total of 20 SLR scenarios in the map viewer, and hence 20 individual map packages that can be downloaded.

For explanation of attributes, please see the metadata included with each data layer.

To view the layer's metadata in ArcMap: in the Table of Contents:

Right Click on Layer Name → Data → View Item Description

### *SLR Scenario Data Layers*

Sub-Folder	Layer Name	Descript
Affected Transportation	<b>SIS Highways</b>	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	<b>Roads</b>	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	<b>SIS Rails</b>	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	<b>SIS Facilities</b>	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	<b>RSLR by County</b>	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	<b>SLR Depth Inches</b>	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 Map Package

If you download the Current Flood Risk Map Package, then the download will contain 10 GIS data layers. For explanation of attributes, please see the metadata included with each data layer.

### *Current Flood Risk Layers*

Sub-Folder	Layer Name	Descript
Affected Roads	<b>% Roadway in 100-year Floodplain</b>	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	<b>% Roadway in 500-year Floodplain</b>	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	<b>% Roadway in Cat 1 Storm Surge</b>	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	<b>% Roadway in Cat 2 Storm Surge</b>	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	<b>% Roadway in Cat 3 Storm Surge</b>	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	<b>% Roadway in Cat 4 Storm Surge</b>	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	<b>% Roadway in Cat 5 Storm Surge</b>	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	<b>Storm Surge Zones (FDEM/ RPCs)</b>	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: <a href="http://www.floridadisaster.org/gis/data/">http://www.floridadisaster.org/gis/data/</a>
N/A	<b>100-Year Floodplain (FEMA)</b>	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	<b>500-Year Floodplain (FEMA)</b>	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 Map Package

If you download the Florida Base Layers Map Package, then the download will contain three GIS data layers. For explanation of attributes, please see the metadata included with each data layer.

#### 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.