

**GIS Data Layers Guide**  
**Sea Level Scenario Sketch Planning Tool**  
**Coastal Resiliency Tools Buffet, Oct. 26, 2016**

**Data Layers for Each SLR Scenario (9 Scenarios, 7 layers for each scenario)**

<b>Sea Level Rise Scenario (Ex: SLR 2040 USACE Low, 0.37 ft)</b>		
<b>Folder</b>	<b>Data Layer</b>	<b>Description</b>
	% Road Affected – SLR only	Future Flood Risk to roads under SLR scenario. Percent of road segment inundated by the SLR scenario. Base road data used: FDOT Roads Characteristics Inventory (RCI).
	SLR Inundation Extent, MHHW	Geographic extent of SLR inundation. Note: does not show depth of inundation.
<b>Future Flood Risk Models (<i>pilot storm surge model outputs for Volusia</i>)</b>		
	% Road Affected – 100yr storm + SLR	Future Flood Risk to roads under 100-year storm + SLR scenario. Percent of road segment inundated by the base 100-year storm plus SLR. Base road data used: FDOT Roads Characteristics Inventory (RCI).
	Hazus 100-year storm BASE	Geographic extent and depth of surge from base 100-year storm. Mapped with Hazus-MH coastal flood model.
	100-year storm +SLR	Geographic extent and depth of surge from 100-year storm + SLR. Mapped with Hazus-MH coastal flood model.
	Hurricane Dora Base	Geographic extent and depth of surge from historic Hurricane Dora, 1964. Mapped using Hazus-MH Coastal Surge (Flood and Hurricane) models.
	Hurricane Dora + SLR	Geographic extent and depth of surge from current/ base 100-year storm. Mapped using Hazus-MH Coastal Surge (Flood and Hurricane) models.

*More data layers on the back of this page!*

## Data Layers not specific to a SLR Scenario

Folder	Data Layer	Description
<b>Roads – Current Flood Risk</b>		
	% Road in 100-year floodplain	Percent of road segment in current 100-year floodplain. Base road data used: FDOT Roads Characteristics Inventory (RCI). Floodplain data from FEMA DFIRM.
	% Road in 500-year floodplain	Percent of road segment in current 500-year floodplain. Base road data used: FDOT Roads Characteristics Inventory (RCI). Floodplain data from FEMA DFIRM.
	% Road in Cat 2 Storm Surge	Percent of road segment in Category 2 Storm Surge Zone. Base road data used: FDOT Roads Characteristics Inventory (RCI). Storm surge data from FDEM, compiled from Regional Evacuation Studies.
	% Road in Cat 3 Storm Surge	Percent of road segment in Category 2 Storm Surge Zone. Base road data used: FDOT Roads Characteristics Inventory (RCI). Storm surge data from FDEM, compiled from Regional Evacuation Studies.
	% Road in Cat 4 Storm Surge	Percent of road segment in Category 2 Storm Surge Zone. Base road data used: FDOT Roads Characteristics Inventory (RCI). Storm surge data from FDEM, compiled from Regional Evacuation Studies.
	% Road in Cat 5 Storm Surge	Percent of road segment in Category 2 Storm Surge Zone. Base road data used: FDOT Roads Characteristics Inventory (RCI). Storm surge data from FDEM, compiled from Regional Evacuation Studies.
<b>Current Flood Risk</b>		
	FEMA 100-year floodplain	1% annual chance flood or 100-year floodplain and coastal floodplain, as delineated in the FEMA DFIRM database.
	FEMA 500-year floodplain	0.2% annual chance flood or 500-year floodplain as delineated in the FEMA DFIRM database.
	FDEM Storm Surge Zones	SLOSH Storm Surge Zones, Category 1-5. Compiled by FDEM from Regional Evacuation Studies.