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This Atlas is part of Volume 10 of the *Statewide Regional Evacuation Study Program* (SRESP), and one of three sets of county books in the *North Central Florida Storm Tide Directional Atlas* series. Book 1 covers Dixie County; Book 2 covers Taylor County; and Books 3 and 4 cover the two inland Counties which receive storm surge: Gilchrist and Lafayette. In each county, the primary volume presents an overview of the study and the methodology, while the Appendices, numbered from A to C, include the surge inundation maps for each of three directional storm clusters: N-ENE, SW-WNW, and WNW-N. The Atlas maps identify those areas subject to potential storm tide flooding from the five categories of hurricane on the Saffir-Simpson Hurricane Wind Scale, as determined by the National Oceanic and Atmospheric Administration (NOAA) numerical storm surge model, Sea, Lake and Overland Surges from Hurricanes (SLOSH). Volume 10 is unique in that it is based on the direction the storm is heading and depicts the resulting surge of storms approaching from that specific directional angle.

The *Storm Tide Directional Atlas* series supplements the original hazards analysis for storm tides (Volume 7-3) and depth (Volume 9-3), and enhances a key component of the SRESP. The *Technical Data Report* (Volume 1-3) was built upon the original storm tide analysis and includes the evacuation zones and population estimates, results of the evacuation behavioral data, shelter analysis and evacuation transportation analysis. The study, which provides vital information to state and local emergency management, forms the basis for county evacuation plans. The final study documents are available on the Internet at:

http://www.ncfrpc.org/sres/directional/index.html

This Atlas series was produced by the North Central Florida Regional Planning Council with funding from the Federal Emergency Management Agency, through the Florida Division of Emergency Management.

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The Council acknowledges and extends its appreciation to the following agencies and people for their cooperation and assistance in the development of this Atlas:

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- Steve Spradley, Director of Taylor County Emergency Management

**Northeast Florida Regional Council**
- Elizabeth Payne, Project Manager

**Florida Emergency Preparedness Association**
- For their support in this statewide effort

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A. Storm Tide Directional Atlas

The surge inundation limits (directional maximum surge heights minus the ground elevations) are provided as GIS shape files and graphically displayed on maps in the *Directional Storm Tide Atlas for the South Florida Region*. The Atlas was prepared by the South Florida Regional Council under contract to the State of Florida, Division of Emergency Management, as part of this study effort. The maps prepared for the Atlas consist of base maps (1:24000) including topographic, hydrographic and highway files updated using current county and state highway data. Detailed shoreline and storm tide limits for each category of storm were determined using the region's geographic information system (GIS).

The purpose of the maps contained in this Atlas is to reflect a worst probable scenario of the hurricane storm tide inundation for a given cluster of compass directions that a storm would be heading and to provide a basis for the hurricane evacuation zones and study analyses. While the storm tide delineations include the addition of an astronomical mean high tide and tidal anomaly, it should be noted that the data reflects only still-water saltwater flooding. Local processes such as waves, rainfall and freshwater flooding from overflowing rivers, are usually included in observations of storm tide height, but are not surge and are not calculated by the SLOSH model. It is incumbent upon local emergency management officials and planners to estimate the degree and extent of freshwater flooding as well as to determine the magnitude of the waves that will accompany the surge.

Although the methodology used for surge determination in this Atlas does the most to reduce inconsistencies and human subjectivity, factors remain in the data itself that could show variations from previous efforts and results. Whenever a SLOSH basin is changed in any way, results can vary. Using MEOW (Maximum Envelope of Water) data as we do in this directional atlas, instead of the MOM (Maximum of Maximums) data, and choosing directional subsets of the maximums (MOMs) will indeed produce different results than other atlases – and this was expected. Other factors can include different elevation model data, as well as number and scope of selected SLOSH basin grid cells. Also, any data that is beyond the original extent or boundary of the basin is interpolation influenced by the modeling trend up to that location, and hand adaptation of basin extensions.

Figure 1 shows the projected surge inundation for each category of storm for storms moving in an N-ENE direction. Figure 2 provides an index of the N-ENE directional map series for Taylor County.

B. Points of Reference

County emergency management agencies selected reference points, which include key facilities or locations critical for emergency operations. The Table 1 includes the map identification number, descriptions of the selected points, and the elevation of the site. The elevation is based on the digital elevation data provided by LiDAR. It should be noted that if the site is large, elevations may vary significantly. Table 1 also provides the storm tide value from the SLOSH value and the depth of inundation above ground (storm tide height minus the ground elevation) at the site.
Figure 1  Directional N-ENE (Approaching) Storm Surge
## Table 1  Points of Reference, Surge Height and Inundation Depth Above Ground

| Map ID | Name    | Elevation | C1 Depth | C1 Depth | C2 Depth | C2 Depth | C3 Depth | C3 Depth | C4 Depth | C4 Depth | C5 Depth | C5 Depth | C1 Surge | C2 Surge | C3 Surge | C4 Surge | C5 Surge |
|--------|---------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 42     | Taylor  | 24.7      | Dry      | Dry      | 18.7     | 25.8     | 30.4     | 35.6     | 10.4     | 18.8     | 23.7     | 28.9     | 32.0     |          |          |          |          |          |
| 43     | Taylor  | 0.1       | 10.3     | 18.7     | 25.8     | 30.4     | 35.6     | 10.4     | 18.8     | 23.7     | 28.9     | 32.0     |          |          |          |          |          |
| 44     | Taylor  | 6.1       | 4.3      | 12.7     | 20.2     | 25.2     | 30.0     | 10.4     | 18.8     | 26.3     | 31.3     | 36.1     |          |          |          |          |          |
| 45     | Taylor  | 0.2       | 10.0     | 17.8     | 24.9     | 30.8     | 35.8     | 10.2     | 18.0     | 25.1     | 31.0     | 36.0     |          |          |          |          |          |
| 46     | Taylor  | 4.3       | 6.2      | 14.2     | 21.3     | 27.2     | 32.3     | 10.5     | 18.5     | 25.6     | 31.5     | 36.6     |          |          |          |          |          |
| 47     | Taylor  | 9.9       | 0.7      | 8.9      | 16.3     | 22.0     | 27.0     | 10.6     | 18.8     | 26.2     | 31.9     | 36.9     |          |          |          |          |          |
| 48     | Taylor  | 16.4      | Dry      | 2.9      | 10.9     | 16.5     | 20.7     | 8.6      | 19.3     | 27.3     | 32.9     | 37.1     |          |          |          |          |          |
| 49     | Taylor  | 22.0      | Dry      | 5.4      | 10.1     | 14.5     | 7.6      | 17.3     | 27.4     | 32.1     | 36.5     |          |          |          |          |          |          |
| 50     | Taylor  | 4.1       | 6.8      | 15.0     | 22.4     | 28.5     | 33.3     | 10.9     | 19.1     | 26.5     | 32.6     | 37.4     |          |          |          |          |          |
| 51     | Taylor  | 23.8      | Dry      | 3.8      | 9.3      | 13.5     | 7.5      | 16.7     | 27.6     | 33.1     | 37.3     |          |          |          |          |          |          |
| 52     | Taylor  | 6.0       | 5.1      | 13.3     | 20.5     | 26.6     | 31.7     | 11.1     | 19.3     | 26.5     | 32.6     | 37.7     |          |          |          |          |          |
| 53     | Taylor  | 22.2      | Dry      | 4.6      | 10.8     | 15.9     | 9.0      | 19.2     | 26.8     | 33.0     | 38.1     |          |          |          |          |          |          |
| 54     | Taylor  | 24.1      | Dry      | 2.6      | 8.9      | 13.3     | 7.5      | 13.1     | 26.7     | 33.0     | 37.4     |          |          |          |          |          |          |
| 56     | Taylor  | 32.4      | Dry      | Dry      | Dry      | 5.9      | 7.5      | 13.1     | 18.2     | 32.0     | 38.3     |          |          |          |          |          |          |
| 57     | Taylor  | 31.3      | Dry      | Dry      | 0.7      | 6.6      | 7.5      | 13.1     | 18.2     | 32.0     | 37.9     |          |          |          |          |          |          |
| 58     | Taylor  | 24.7      | Dry      | Dry      | Dry      | 6.1      | 11.6     | 7.5      | 13.1     | 19.4     | 30.8     | 36.3     |          |          |          |          |          |
| 59     | Taylor  | 31.0      | Dry      | Dry      | Dry      | 2.3      | 7.5      | 13.1     | 18.2     | 25.7     | 33.3     |          |          |          |          |          |          |
| 60     | Taylor  | 25.2      | Dry      | Dry      | Dry      | 2.7      | 8.2      | 7.5      | 13.1     | 19.0     | 27.9     | 33.4     |          |          |          |          |          |
| 61     | Taylor  | 23.0      | Dry      | Dry      | 0.4      | 6.0      | 11.0     | 7.9      | 15.2     | 23.4     | 29.0     | 34.0     |          |          |          |          |          |
| 62     | Taylor  | 5.3       | 4.9      | 11.9     | 18.0     | 23.5     | 28.3     | 10.2     | 17.2     | 23.3     | 28.8     | 33.6     |          |          |          |          |          |
| 63     | Taylor  | 19.1      | Dry      | 4.3      | 9.7      | 14.4     | 7.6      | 15.4     | 23.4     | 28.8     | 33.5     |          |          |          |          |          |          |
| 64     | Taylor  | 23.0      | Dry      | 0.2      | 5.9      | 10.6     | 6.3      | 12.8     | 23.2     | 28.9     | 33.6     |          |          |          |          |          |          |
| 65     | Taylor  | 5.4       | 5.3      | 13.0     | 19.9     | 25.4     | 30.7     | 10.7     | 18.4     | 25.3     | 30.8     | 36.1     |          |          |          |          |          |
| 66     | Taylor  | 4.5       | 6.3      | 13.8     | 20.8     | 26.4     | 31.6     | 10.8     | 18.3     | 25.3     | 30.9     | 36.1     |          |          |          |          |          |
| 67     | Taylor  | 2.9       | 7.9      | 15.2     | 22.1     | 27.7     | 32.8     | 10.8     | 18.1     | 25.0     | 30.6     | 35.7     |          |          |          |          |          |
| 68     | Taylor  | 4.0       | 6.7      | 14.0     | 20.8     | 26.3     | 31.5     | 10.7     | 18.0     | 24.8     | 30.3     | 35.5     |          |          |          |          |          |
| 69     | Taylor  | 4.0       | 6.3      | 13.7     | 20.3     | 25.9     | 31.1     | 10.3     | 17.7     | 24.3     | 29.9     | 35.1     |          |          |          |          |          |

1. Depth refers to the depth of inundation at the site (storm surge value minus the ground elevation)
2. Surge refers to the storm surge value from the SLOSH Model
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Figure 2  N-ENE (Approaching) Atlas Map Index
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.
Atlas Legend

Evacuation Routes
City Limits
NHD Lakes
Point of Reference

Storm Tide Category
- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

Notes:
1. Surge limits are based on still water storm tide height above NAVD88 at high tide with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. Depths contained in the accompanying table were derived from LIDAR-based digital elevation data.

Datum = NAD 1983, 1,000-m USNG

US National Grid
100,000-m Square ID
17R

Printed Pages in Yellow
Map Plate 8

Directional Storm Tide
Taylor County, 2015

Scale 1:24,000

Produced by the North Central Florida Regional Planning Council for Florida Division of Emergency Management, 2011-2012
Notes:
1. Surge limits are based on still water storm tide height above NAVD 88 at high tide with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from LIDAR-based digital surge heights over NAVD 88.
Produced by the North Central Florida Regional Planning Council for Florida Division of Emergency Management, 2011-2012

Please consult with local authorities.

ATLAS LEGEND

- Evacuation Routes
- City Limits
- NHD Lakes
- Point of Reference

Storm Tide Category
- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

Notes:
1. Surge limits are based on still water storm tide height above NAVD88.
2. Evacuation and planning criteria are based on inundation from surge only at high tide.

Datum = NAD 1983, 1,000-m USNG

US National Grid
100,000-m Square ID

Grid Zone Designation
17R

This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.
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Directions:
1. Surge limits are based on still water storm tide height depression above NAVD88 at high tide with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from LIDAR based digital elevation.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.

Notes:
1. Surge limits are based on still water storm tide height and above NAVD 88 at high tide with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials.
   Storm tide heights over LIDAR based digital elevation.

Datum = NAD 1983, 1,000-m USNG
US National Grid
100,000-m Square ID
KN
Grid Zone Designation
17R

Printed Pages in Yellow
Map Plate
19

Scale 1:24,000
0 2,000 Feet

ATLAS LEGEND
Evacuation Routes
City Limits
NHD Lakes
Point of Reference
Storm Tide Category
Level 1
Level 2
Level 3
Level 4
Level 5

Produced by the North Central Florida Regional Planning Council for Florida Division of Emergency Management, 2011-2012
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.

Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from measurements of the highest surge heights over LIDAR based digital elevation.
Produced by the North Central Florida Regional Planning Council for Florida Division of Emergency Management, 2011-2012

This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.

Notes:
1. Surge limits are based on still water storm tide height above NAVD88 at high tide with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from maximum surge heights over LIDAR based digital elevation.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.

ATLAS LEGEND
- Evacuation Routes
- City Limits
- NHD Lakes
- Point of Reference

Datum = NAD 1983, 1,000-m USNG
US National Grid
100,000-m Square ID
KP
Grid Zone Designation
17R
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. Depths contained in the accompanying table were derived from LIDAR-based digital elevation.

Storm Tide Category
- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

Directional Storm Tide
Taylor County, 2015
Scale 1:24,000
Map Plate 26

Produced by the North Central Florida Regional Planning Council for Florida Division of Emergency Management, 2011-2012
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.

Notes:
1. Surge limits are based on still water storm tide height above NAVD88 at high tide with no wave setting.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from LIDAR based digital storm heights over NAVD based digital elevation.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.

Notes:
1. Surge limits are based on still water storm tide height above NAVD88 at high tide with no wave setting.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from LIDAR based digital elevation.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.

Notes:
1. Surge limits are based on still water storm tide height above NAVD88 at high tide with no wave setting.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from LIDAR based digital elevation.

Datum = NAD 1983, 1,000-m USNG

Printed Pages in Yellow

Map Plate 32

Produced by the North Central Florida Regional Planning Council for Florida Division of Emergency Management, 2011-2012
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.

Notes:
1. Surge limits are based on still water storm tide height above NAVD88 at high tide with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from Maximum of Maximums surge heights over LIDAR-based digital elevation.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.

Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.

Datum = NAD 1983, 1,000-m USNG

US National Grid 100,000-m Square ID
KP
Grid Zone Designation 17R

Printed Pages in Yellow Map Plate 37

Produced by the North Central Florida Regional Planning Council for Florida Division of Emergency Management, 2011-2012
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.
This map is for emergency planning purposes only.

Hurricane evacuation decision-making and growth management implementation are local responsibilities.

Please consult with local authorities.

Notes:
1. Surge limits are based on still water storm tide height at high tide above NAVD88, with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from LIDAR-based digital elevation.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.

Notes:
1. Surge limits are based on still water storm tide height above NAVD88 at high tide with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from LIDAR based digital elevation.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.

Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from measurements of stillwater surge heights over LIDAR based digital elevation.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities.

Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide and 1,000 ft wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.

Notes:
1. Surge limits are based on still water storm tide height above NAVD88 at high tide with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from maximum surge heights over LIDAR based digital elevation.

Datum = NAVD 1988, 0.000 m UNGS
US National Grid
100,000-m Square ID
KP
Grid Zone Designation
17R

Directional Storm Tide
Taylor County, 2015
Scale 1:24,000
Map Plate 62

Produced by the North Central Florida Regional Planning Council for Florida Division of Emergency Management, 2011-2012
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.
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Notes:
1. Surge limits are based on still water storm tide height above NAVD88 at high tide with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.

Datum = NAD 1983, 1,000-m U.S.G.S.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.

Notes:
1. Surge limits are based on still water storm tide height above NAVD88 at high tide with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depth agains the accompanying table were derived from elevation of maximum surge heights over LiDAR based digital information.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.

Notes:
1. Surge limits are based on still water storm tide height at high tide with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.
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Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.
Produced by the North Central Florida Regional Planning Council for Florida Division of Emergency Management, 2011-2012

Notes:
1. Surge heights are based on still water storm tide height above NAVD88 at high water with no wave action.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths at high tide with no wave action were derived from LIDAR based still water storm tide height.

Datum = NAD 1983, 1,000-m USNG

US National Grid
100,000-m Square ID
KP
Grid Zone Designation
17R

This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsabilities. Please consult with local authorities.

ATLAS LEGEND
- Evacuation Routes
- City Limits
- NHD Lakes
- Point of Reference

Storm Tide Category
- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

Directional Storm Tide
Taylor County, 2015
Scale: 1:24,000

Map Plate 108

Printed Pages in Yellow
Goose Pasture
4W D Road
Power Line Rd
C a b
G r o
R d
Aucilla River Rd
Powell Hammock
Mortis Home Rd
Rocky Ford Rd

TAYLOR COUNTY

US National Grid 100,000-m Square ID
KP
Grid Zone Designation 17R
Datum = NAD 1983 1,000-m USNG

Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setting.
2. The Points of Reference are locations determined to be relevant to emergency management officials. The depths contained in the accompanying table were derived from LIDAR based digital elevation.

ATLAS LEGEND
Evacuation Routes
City Limits
NHD Lakes
Point of Reference

Storm Tide Category
Level 1
Level 2
Level 3
Level 4
Level 5

Directional Storm Tide
Taylor County, 2015
Scale 1:24,000
Map Plate 117

Produced by the North Central Florida Regional Planning Council for Florida Division of Emergency Management, 2011-2012
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.
This map is for emergency planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.
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North Central Florida Regional Planning Council

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* Primary Responsibility

** Secondary Responsibility
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