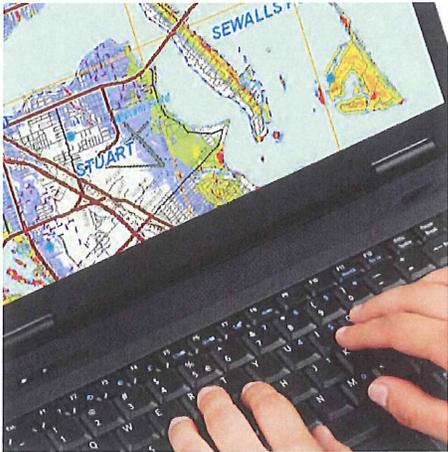




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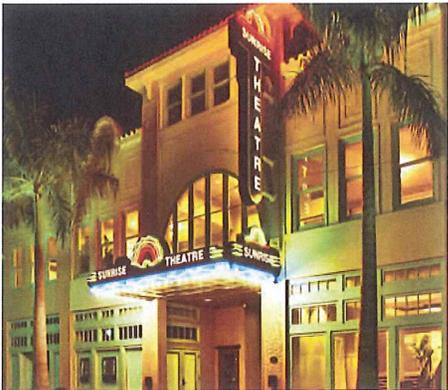
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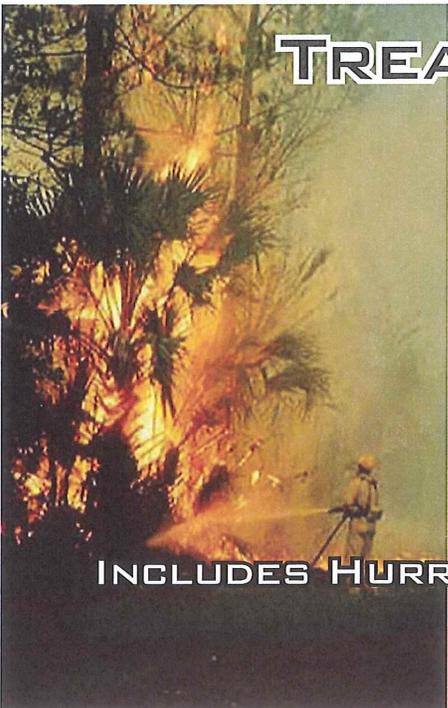
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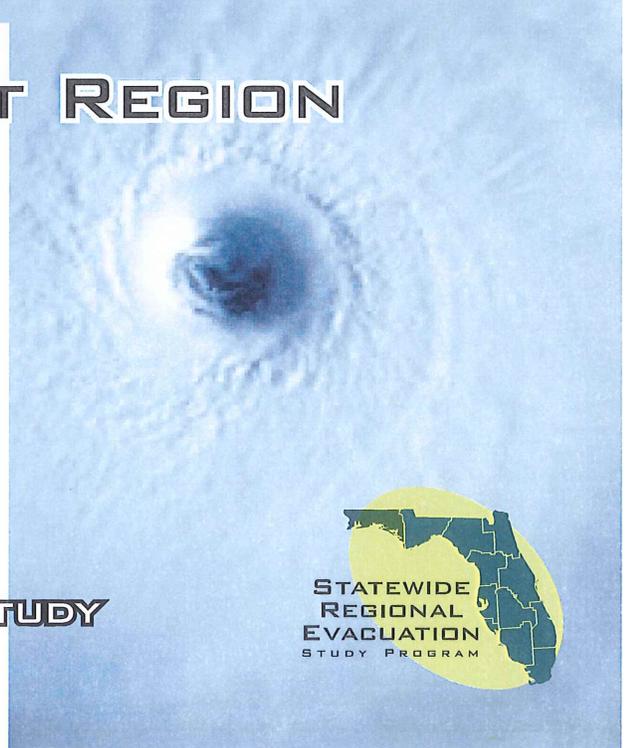
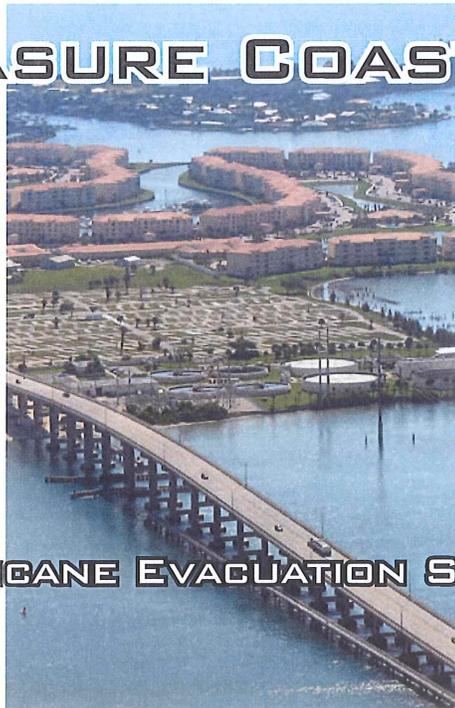
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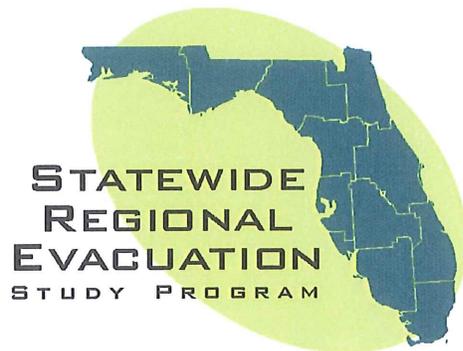


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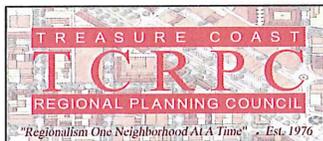
TREASURE COAST STORM TIDE ATLAS

Volume VII-10 Book 3 Palm Beach County

This Book is part of Volume VII of the *Statewide Regional Evacuation Study* (SRES) Program and one of four county books in the Treasure Coast Storm Tide Atlas Series. Book 1 covers Indian River County, Book 2 covers Martin County, Book 3 covers Palm Beach County and Book 4 covers St. Lucie County. 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 NOAA's numerical storm surge model, SLOSH (updated 2009).

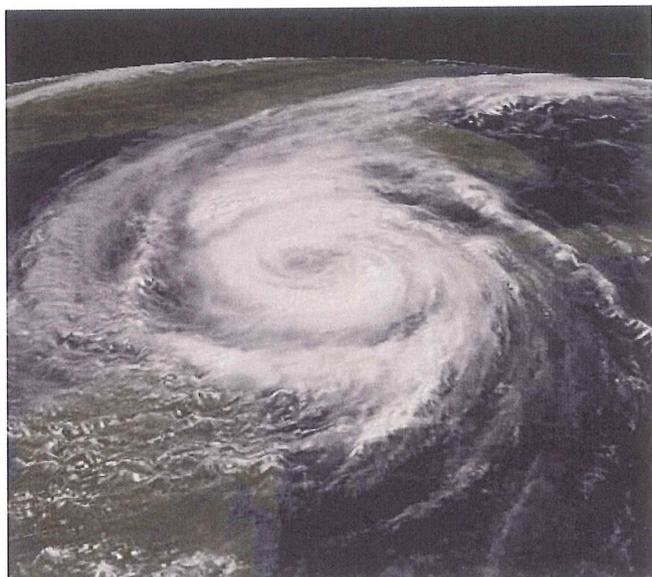
The Storm Tide Atlas, published in 2010, is the foundation of the hazards analysis for storm tide and a key component of the SRES. The Technical Data Report (Volume I) builds upon this analysis and includes the revised evacuation zones and population estimates, results of the evacuation behavioral data, shelter analysis and evacuation transportation analyses. The Study, which provides vital information to state and local emergency management, forms the basis for county evacuation plans. The final documents with summary information will be published and made available on the Internet (www.tcrpc.org) in June 2010.

The Atlas was produced by the Treasure Coast Regional Planning Council with funding by the Florida Legislature and the Federal Emergency Management Agency through the Florida Division of Emergency Management.



Treasure Coast
Regional Planning Council

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VOLUME VII-10 TREASURE COAST STORM TIDE ATLAS

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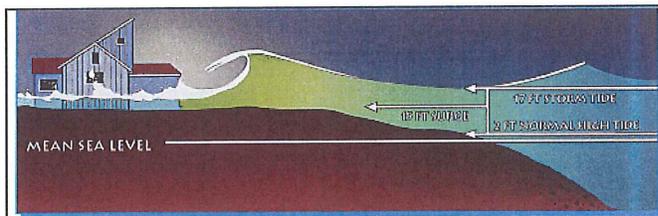
INTRODUCTION

A comprehensive emergency management program requires attention to four (4) key inter-related components: preparedness, response, recovery and mitigation. Preparing and avoiding or reducing potential loss of life and property damage - **preparedness and mitigation** - requires accurate and precise hazard and vulnerability analyses. These analyses are the foundation for evacuation and disaster response planning, as well as the development of local mitigation strategies designed to reduce the community=s overall risk to disasters. This Atlas series provides information to state, county and local emergency management officials and planners for use in hurricane preparedness and coastal management in the Treasure Coast Region including Indian River, Martin, Palm Beach and St. Lucie counties (Figure 1). It was part of a statewide effort to enhance our ability to respond to a hurricane threat, facilitate the evacuation of vulnerable residents to a point of relative safety and mitigate our vulnerability in the future. The ***Statewide Regional Evacuation Study Program*** provides a consistent, coordinated and improved approach to addressing the state and regional vulnerability to the hurricane threat.

The specific purpose of this Atlas is to provide maps which depict storm tide heights and the extent of stillwater, storm surge coastal flooding inundation from hurricanes of five different intensities in the Treasure Coast area. The Atlas was prepared by the Treasure Coast Regional Planning Council as part of the *Statewide Regional Evacuation Study Program*. The Study is a cooperative effort of the Florida Department of Community Affairs, Division of Emergency Management, the Florida Regional Planning Councils and the county emergency management agencies.



Figure 1 Treasure Coast Region



THE SLOSH MODEL

The principal tool utilized in this study for analyzing the expected hazards from potential hurricanes affecting the study area is the Sea, Lake and Overland Surges from Hurricane (**SLOSH**) numerical storm surge prediction model. The SLOSH computerized model predicts the storm tide heights that result from hypothetical hurricanes with selected various combinations of pressure, size, forward speed, track and winds. Originally developed for use by the National Hurricane Center (NHC) as a tool to give geographically specific warnings of expected surge heights during the approach of hurricanes, the SLOSH model is utilized in regional studies for several key hazard and vulnerability analyses.

The SLOSH modeling system consists of the model source code and the model basin or grid. SLOSH model grids must be developed for each specific geographic coastal area individually incorporating the unique local bay and river configuration, water depths, bridges, roads and other physical features. In addition to open coastline heights, one of the most valuable outputs of the SLOSH model for evacuation planning is its predictions of surge heights over land into inland areas.

The first Palm Beach SLOSH model basin was completed in 1979 and represented the first application of SLOSH storm surge dynamics to a major coastal area of the United States. The model was developed by the Techniques Development Lab of the National Oceanic and Atmospheric Administration (NOAA) under the direction of the late Dr. Chester P. Jelesnianski. In December 1990 the National Hurricane Center updated the SLOSH model for the Palm Beach basin. A major improvement to the model was the incorporation of wind speed degradation overland as the simulated storms moved inland. This duplicated the pressure "filling" and increases in the radii of maximum winds (RMW) as the hurricanes weaken after making landfall.

The newest generation of the SLOSH model basin incorporated in the 2010 Statewide Regional Evacuation Study reflects major improvements, including higher resolution basin data and grid configurations. Faster computer speeds allowed additional hypothetical storms to be run for creation of the MOMs¹ or the maximum potential storm tide values for each category of storm.

Hypothetical Storm Simulations

Surge height depends strongly on the specifics of a given storm including, forward speed, angle of approach, intensity or maximum wind speed, storm size, storm shape, and landfall location. The SLOSH model was used to develop data for various combinations of hurricane strength, wind speed, and direction of movement. Storm strength was modeled using the central pressure (defined as the difference between the ambient sea level pressure and the minimum value in the storm's center), the storm eye size and the radius of maximum winds using the five categories of hurricane intensity as depicted in the Saffir-Simpson Hurricane Wind Scale (see Table 1).

¹ Maximum of MEOWs

Table 1 Saffir-Simpson Hurricane Wind Scale

Category	Wind Speeds	Potential Damage
Category 1	(Sustained winds 74-95 mph)	<i>Very dangerous winds will produce some damage</i>
Category 2	(Sustained winds 96-110 mph)	<i>Extremely dangerous winds will cause extensive damage</i>
Category 3	(Sustained winds 111-130 mph)	<i>Devastating damage will occur</i>
Category 4	(Sustained winds 131-155 mph)	<i>Catastrophic damage will occur</i>
Category 5	(Sustained winds of 156 mph and above)	<i>Catastrophic damage will occur</i>

The modeling for each tropical storm/hurricane category was conducted using the mid-range pressure difference (Δp , millibars) for that category. The model also simulates the storm filling (weakening upon landfall) and radius of maximum winds (RMW) increase.

Ten storm track headings (WSW, W, WNW, NW, NNW, N, NNE, NE, E, ENE) were selected as being representative of storm behavior in the Treasure Coast region, based on observations by forecasters at the National Hurricane Center. And for each set of tracks in a specific direction storms were run at forward speeds of 5, 10, 15 and 25 mph. And, for each direction, at each speed, storms were run at two different sizes (20 statute mile radius of maximum winds and 35 statute miles radius of maximum winds.) Finally, each scenario was run at both mean tide and high tide. Both tide levels are now referenced to North American Vertical Datum of 1988 (NAVD88) as opposed to the National Geodetic Vertical Datum of 1929 (NGVD29) used in the previous study.

A total of 13,860 runs were made consisting of the different parameters shown in Table 2a and a total of 13,920 runs were made consisting of the different parameters shown in Table 2b.

Table 2a
Palm Beach Basin Hypothetical Storm Parameters

Directions, speeds, (Saffir/Simpson) intensities, number of tracks and the number of runs.

Direction	Speeds (mph)	Size (Radius of Maximum winds)	Intensity	Tides	Tracks	Runs
E	5,15,25 mph	20 statute miles; 35 statute miles	1 through 5	Mean/High	27	1620
ENE	5,15,25 mph	20 statute miles; 35 statute miles	1 through 5	Mean/High	29	1740
NE	5,15,25 mph	20 statute miles; 35 statute miles	1 through 5	Mean/High	26	1560
NNE	5,15,25 mph	20 statute miles; 35 statute miles	1 through 5	Mean/High	19	1140
N	5,15,25 mph	20 statute miles; 35 statute miles	1 through 5	Mean/High	17	1020
NNW	5,15,25 mph	20 statute miles; 35 statute miles	1 through 5	Mean/High	17	1020
NW	5,15,25 mph	20 statute miles; 35 statute miles	1 through 5	Mean/High	19	1140
WNW	5,15,25 mph	20 statute miles; 35 statute miles	1 through 5	Mean/High	23	1380
W	5,15,25 mph	20 statute miles; 35 statute miles	1 through 5	Mean/High	28	1680
WSW	5,15,25 mph	20 statute miles; 35 statute miles	1 through 5	Mean/High	26	1560
TOTAL						13,860

Table 2b**Lake Okeechobee Basin Hypothetical Storm Parameters**

Directions, speeds, (Saffir/Simpson) intensities, number of tracks and the number of runs.

Direction	Speeds (mph)	Size (Radius of Maximum Winds - Statute Miles)	Intensity	Lake Levels	Tracks	Runs
WSW	5,15,25 mph	20 miles, 35 miles	1 through 5	12, 13, 14, 15, 16, 20, ft.	7	1218
W	5,15,25 mph	20 miles, 35 miles	1 through 5	12, 13, 14, 15, 16, 20, ft.	9	1566
WNW	5,15,25 mph	20 miles, 35 miles	1 through 5	12, 13, 14, 15, 16, 20, ft.	8	1392
NW	5,15,25 mph	20 miles, 35 miles	1 through 5	12, 13, 14, 15, 16, 20, ft.	8	1392
NNW	5,15,25 mph	20 miles, 35 miles	1 through 5	12, 13, 14, 15, 16, 20, ft.	8	1392
N	5,15,25 mph	20 miles, 35 miles	1 through 5	12, 13, 14, 15, 16, 20, ft.	8	1392
NNE	5,15,25 mph	20 miles, 35 miles	1 through 5	12, 13, 14, 15, 16, 20, ft.	8	1392
NE	5,15,25 mph	20 miles, 35 miles	1 through 5	12, 13, 14, 15, 16, 20, ft.	8	1392
ENE	5,15,25 mph	20 miles, 35 miles	1 through 5	12, 13, 14, 15, 16, 20, ft.	8	1392
E	5,15,25 mph	20 miles, 35 miles	1 through 5	12, 13, 14, 15, 16, 20, ft.	8	1392
TOTAL						13,920

The Grid for the SLOSH Model

Figure 2 illustrates the area covered by the grid for the Palm Beach and Lake Okeechobee SLOSH Model. To determine the surge values the Palm Beach SLOSH model uses a telescoping elliptical grid as its unit of analysis with 70 arc lengths ($1 < I > 70$) and 172 radials ($1 < J > 172$) and the Lake Okeechobee SLOSH model uses a telescoping elliptical grid with 128 arc lengths ($1 < I > 128$) and 135 radials ($1 < J > 135$). Use of the grid configuration allows for individual calculations per grid square which is beneficial in two ways: (1) provides increased resolution of the storm surge at the coastline and inside the harbors, bays and rivers, while decreasing the resolution in the deep water where detail is not as important; and (2) allows economy in computation.

The grid size for the Palm Beach model varies from approximately 0.50 square miles or 320 acres closest to the pole ($I = 1$) to the cells on the outer edges (Atlantic Ocean) where each cell is approximately 2.6 square miles. The Lake Okeechobee model has an average grid size of approximately 100 acres for each cell.



Figure 2 SLOSH Grid

Storm Scenario Determinations

As indicated, the SLOSH model is the basis for the "hazard analysis" portion of coastal hurricane evacuation plans. Thousands of hypothetical hurricanes are simulated with various Saffir-Simpson Wind categories, forward speeds, landfall directions, and landfall locations. An envelope of high water containing the maximum value a grid cell attains is generated at the end of each model run. These envelopes are combined by the NHC into various composites which depict the possible flooding. One useful composite is the MEOW (Maximum

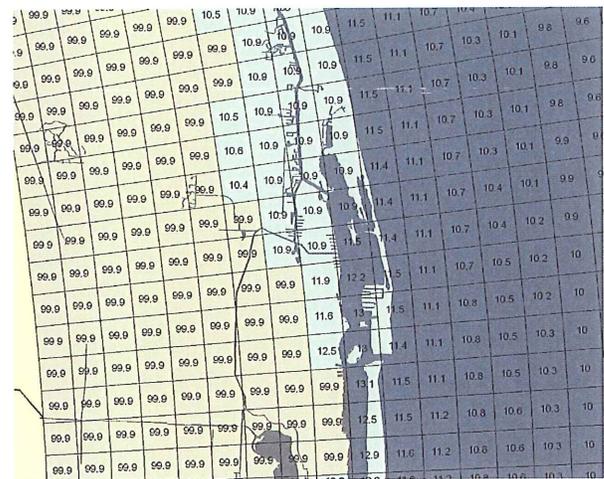


Figure 3 SLOSH Grid with Surge Values

Envelopes of Water) which incorporates all the envelopes for a particular category, speed, and landfall direction. Once surge heights have been determined for the appropriate grids, the maximum surge heights are plotted by storm track and tropical storm/hurricane category. These plots of maximum surge heights for a given storm category and track are referred to as Maximum Envelopes of Water (MEOWs). The MEOWs or Reference Hurricanes can be used in evacuation decision making when and if sufficient forecast information is available to project storm track or type of storm (different landfalling, paralleling, or exiting storms).

The MEOWs provide information to the emergency managers in evacuation decision making. However, in order to determine a scenario which may confront the county in a hurricane threat 24-48 hours before a storm is expected, a further compositing of the MEOWs into Maximums of the Maximums (MOMs) is usually required.

The MOM (Maximum of the MEOWs) combines all the MEOWs of a particular category. The MOMs represent the maximum surge expected to occur at any given location, regardless of the specific storm track/direction of the hurricane. The only variable is the intensity of the hurricane represented by category strength (Category 1-5).

The MOM surge heights, which were furnished by the National Hurricane Center, have 2 values, mean tide and high tide. Mean tide has 0' tide correction. High tide has a 1' tide correction added to it. The Storm Tide limits include the adjustment for mean high tide. All elevations are now referenced to the NAVD88 datum.

These surge heights were provided within the SLOSH grid system as illustrated on Figure 2. The range of maximum surge heights (low to high) for each scenario is provided for each category of storm (MOM) on Table 3. **It should be noted again that these surge heights represent the maximum surge height recorded in the county from the storm tide analysis including inland and back bay areas where the surge can be magnified dependent upon storm parameters.**

Table 3 Potential Storm Tide Height (s) by County

(In Feet above NAVD88)

*Storm Strength	Palm Beach (Coast)	Palm Beach (Lake)	Martin (Coast)	Martin (Lake)	St. Lucie	Indian River
Category 1	Up to 4'	Up to 24'	Up to 4'	Up to 26'	Up to 5'	Up to 4'
Category 2	Up to 6'	Up to 28'	Up to 6'	Up to 27'	Up to 7'	Up to 7'
Category 3	Up to 8'	Up to 32'	Up to 10'	Up to 30'	Up to 10'	Up to 11'
Category 4	Up to 12'	Up to 36'	Up to 13'	Up to 31'	Up to 14'	Up to 14'
Category 5	Up to 14'	Up to 38'	Up to 16'	Up to 32'	Up to 16'	Up to 18'

**Based on the category of storm on the Saffir-Simpson Hurricane Wind Scale*

*** Surge heights represent the maximum values from SLOSH MOMs*

CREATION OF THE STORM TIDE ZONES

The maps in this atlas depict SLOSH-modeled heights of storm tide and extent of flood inundation for hurricanes of five different intensities. As indicate above, the storm tide was modeled using the Maximum of Maximums (MOMs) representing the potential flooding from the five categories of storm intensity of the Saffir/Simpson Hurricane Wind Scale.

Determining Storm Tide Height and Flooding Depth

SLOSH and SLOSH-related products reference storm tide heights relative to the model vertical datum, NAVD88. In order to determine the inundation depth of surge flooding at a particular location the ground elevation (relative to NAVD88) at that location must be subtracted from the potential surge height.²

Surge elevation, or water height, is the output of the SLOSH model. At each SLOSH grid point, the maximum surge height is computed at that point.

Within the SLOSH model an average elevation is assumed within each grid square. Height of water above terrain was not calculated using the SLOSH average grid elevation because terrain height may vary significantly within a SLOSH grid square. For example, the altitude of a 1-mile grid square may be assigned a value of 1.8 meters (6 feet), but this value represents an average of land heights that may

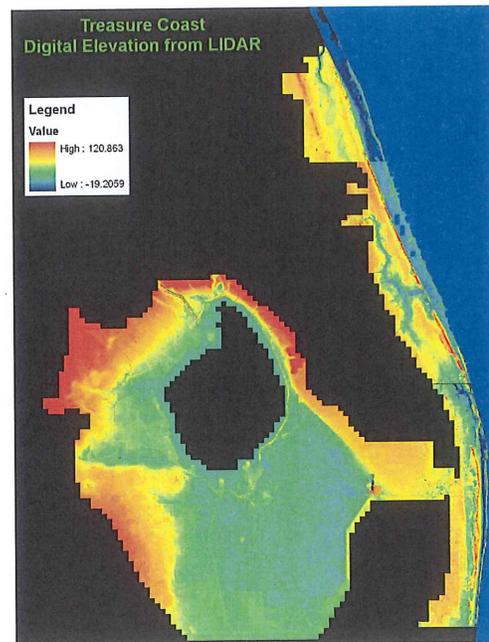


Figure 4 Digital Elevation from LIDAR

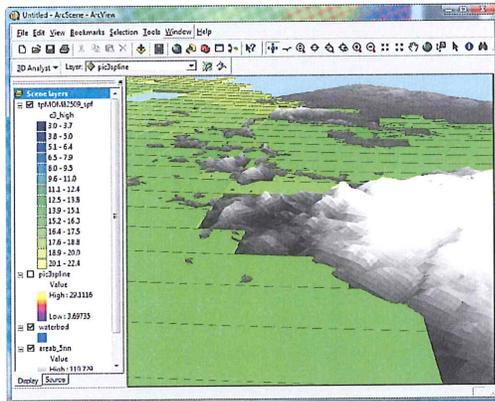
include values ranging from 0.9 to 2.7 meters (3 to 9 feet). In this case, a surge value of 2.5 meters (8 feet) in this square would imply a 0.7 meters (2 feet) average depth of water over the grid's terrain. However, in reality within the grid area portion of the grid would be "dry" and other parts could experience as much as 1.5 meters (5 feet) of inundation. Therefore, in order to determine the storm tide limits, the depth of surge flooding above terrain at a specific site in the grid square is the result of subtracting the terrain height determined by remote sensing from the model-generated storm tide height in that grid square.³

² It is important to note that one must use a consistent vertical datum when post-processing SLOSH storm surge values

³ Note: This represents the regional post-processing procedure. When users view SLOSH output within the SLOSH Display Program, the system uses average grid cell height when subtracting land.

Storm Tide Post-Processing

The Atlas was created using a Toolset wrapped into ESRI's ArcGIS mapping application, ArcMap. The surge tool was developed for the Statewide Regional Evacuation Study Program by the Treasure Coast Regional Planning Council, who had used a similar tool for the previous Evacuation Study Update (2006). This tool enabled all regions within the state of Florida to process the SLOSH and elevation data with a consistent methodology.



The tool basically performs the operation of translating the lower resolution SLOSH grid data into a smooth surface resembling actual storm tide and terrain; processing it with the high resolution elevation data derived from LIDAR. The image on the left represents how the data would look as it appears directly from SLOSH Model output.

Processing all the data in the raster realm, the tool is able to digest large amounts of data and output detailed representations of surge inundation.

Figure 5 SLOSH Display

The program first interpolates the SLOSH height values for each category into a raster surface using spline interpolation. This type of interpolation is best for smooth surfaces, such as water and slow changing terrain. The result is a raster surface representing the surge height for a category that can be processed against the raster Digital Elevation Model from the LIDAR. The "dry" values (represented as 99.9 in the SLOSH Model) are replaced by an average of the inundated grids surrounding current processed grid. An algorithm performs this action utilizing the range of values in the current category of storm being processed.

Using this methodology, once the elevation is subtracted from the projected storm tide, the storm tide limits are determined. The output of the tool is a merged polygon file holding all the maximum inundation zones for Category 1 through Category 5. The output, depicted in this Storm Tide Atlas is determined consistent with the coastal areas throughout the state.

Figure 7 presents a compilation of the *Storm Tide Atlas* for the region.

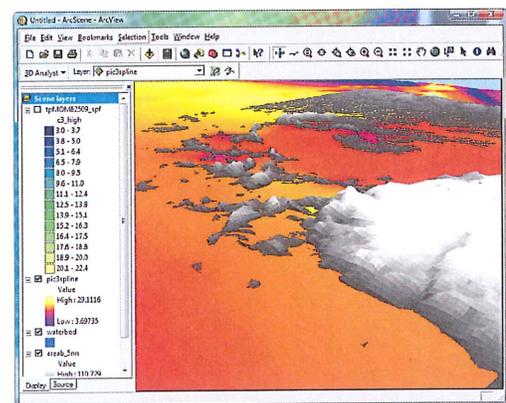
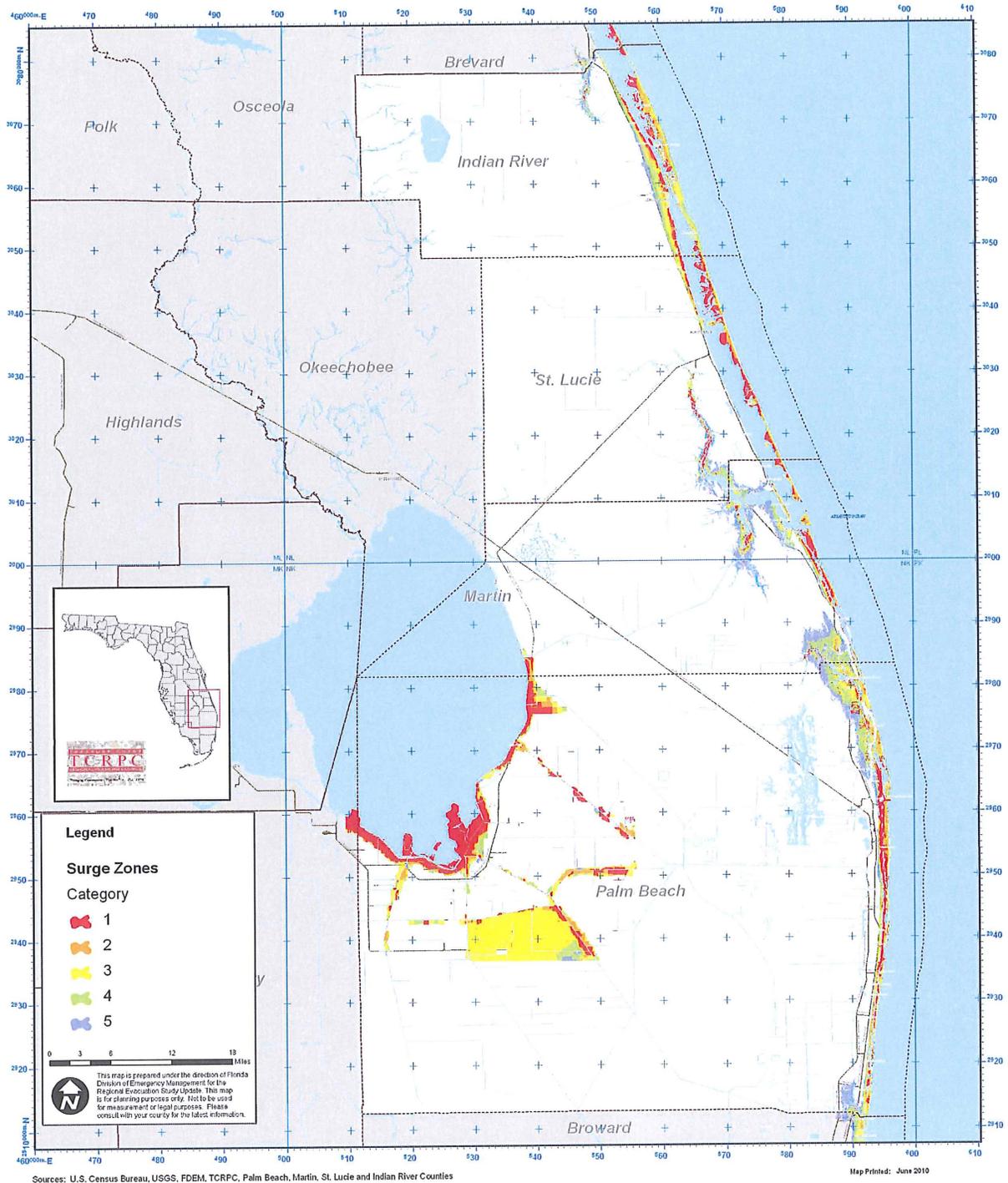


Figure 6 SLOSH Display Post-Processing

Figure 7 Storm Tide Limits for the Treasure Coast Region



VARIATIONS TO CONSIDER

Variations between modeled versus actual measured storm tide elevations are typical of current technology in coastal storm surge modeling. In interpreting the data emergency planners should recognize the uncertainties characteristic of mathematical models and severe weather systems such as hurricanes. The storm tide elevations developed for this study and presented in the *Storm Tide Atlas* should be used as guideline information for planning purposes.

Storm Tide & Wave Height

Regarding interpretation of the data, it is important to understand that the configuration and depth (bathymetry) of the Gulf bottom will have a bearing on surge and wave heights. A narrow shelf, or one that drops steeply from the shoreline and subsequently produces deep water in close proximity to the shoreline, tends to produce a lower surge but a higher and more powerful wave. Those regions, like the Treasure Coast Region, which have a gently sloping shelf and shallower normal water depths, can expect a higher surge but smaller waves. The reason this occurs is because a surge in deeper water can be dispersed down and out away from the hurricane. However, once that surge reaches a shallow gently sloping shelf it can no longer be dispersed away from the hurricane, consequently water piles up as it is driven ashore by the wind stresses of the hurricane. Wave height is NOT calculated by the SLOSH model and is not reflected within the storm tide delineations.

Forward Speed

Under actual storm conditions it may be expected that a hurricane moving at a slower speed could have higher coastal storm tides than those depicted from model results. At the same time, a fast moving hurricane would have less time to move storm surge water up river courses to more inland areas. In the newest version of the Palm Beach SLOSH model, for each set of tracks in a specific direction, storms were run at forward speeds of 5, 10, 15 and 25 mph.

Radius of Maximum Winds

As indicated previously, the size of the storm or radius of maximum winds (RMW) can have a significant impact on storm surge especially in bay areas and along the Gulf of Mexico. All of the hypothetical storms were run at two different sizes, 25 mile radius of maximum winds and 30 mile radius of maximum winds.

Astronomical Tides

Surge heights were provided by NOAA for both mean tide and high tide. Both tide levels are referenced to North American Vertical Datum of 1988. The storm tide limits reflect high tide in the region.

Accuracy

As part of the Statewide Regional Evacuation Study, all coastal areas as well as areas surrounding Lake Okeechobee were mapped using remote-sensing laser terrain mapping (LIDAR⁴) providing the most comprehensive, accurate and precise topographic data for this analysis. As a general rule, the vertical accuracy of the laser mapping is within a 15 centimeter tolerance. However, it should be noted that the accuracy of these elevations is limited to the precision and tolerance in which the horizontal accuracy for any given point is recorded. Other factors such as artifact removal algorithms (that remove buildings and trees) can affect the recorded elevation in a particular location. For the purposes of this study, the horizontal accuracy cannot be assumed to be greater than that of a standard USGS 7 minute quadrangle map, or a scale of 1:24,000.

POINTS OF REFERENCE

County emergency management agencies selected reference points which include key facilities or locations critical for emergency operations. The table below 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 the LIDAR. It should be noted that if the site is large, elevations may vary significantly. The table also provides the storm tide value from the SLOSH value and the depth of inundation (storm tide value minus the ground elevation) at the site.

4 Light Imaging Detection and Ranging

Table 4 Selected Points of Reference

MAP ID	NAME	Elevation	C1 SURGE ⁵	C2 SURGE	C3 SURGE	C4 SURGE	C5 SURGE	C1 DPTH ⁶	C2 DPTH	C3 DPTH	C4 DPTH	C5 DPTH
1	A G HOLLEY STATE HOSPITAL	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	AKER KASTEN SURGICAL EYE CENTER	12.8	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0
3	ATLANTIS OUTPATIENT CENTER, LLC BELLE GLADE CITY POLICE DEPT HEADQUARTERS	16.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	BELLE GLADE FIRE DEPT	15.5	9.7	10.9	12.0	12.6	12.9	0.0	0.0	0.0	0.0	0.0
5	BETHESDA MEMORIAL HOSPITAL	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	BOCA RATON COMMUNITY HIGH SCHOOL	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	BOCA RATON CITY POLICE DEPT. ANNEX	8.4	0.0	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	2.8
8	BOCA RATON CITY POLICE DEPT.	3.6	3.2	5.4	7.8	10.1	12.4	0.0	1.8	4.2	6.5	8.8
9	BOCA RATON COMMUNITY HOSPITAL	13.2	3.1	5.4	7.2	9.2	11.5	0.0	0.0	0.0	0.0	0.0
10	BOCA RATON FIRE RESCUE ST 1	10.2	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.8
11	BOCA RATON FIRE RESCUE ST 2	16.9	3.1	5.5	7.1	9.0	11.8	0.0	0.0	0.0	0.0	0.0
12	BOCA RATON FIRE RESCUE ST 3	10.3	0.0	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	0.9
13	BOCA RATON FIRE RESCUE ST 5	12.2	3.2	5.4	7.8	10.1	12.4	0.0	0.0	0.0	0.0	0.2
14	BOCA RATON OUTPATIENT SURGERY & LASER CE	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	BOYNTON BEACH ASC, LLC	10.6	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.4
16	BOYNTON BEACH FIRE RESCUE ST 1	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	BOYNTON BEACH HIGH SCHOOL	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	BUREAU OF ALCOHOL, TOBACCO AND FIREARMS FORT PIERCE FIELD OFFICE	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	CENTER FOR GASTROINTESTINAL CHILDRENS MEDICAL SERVICES CHILDRENS MEDICAL SERVICES	5.3	3.1	5.4	7.3	9.7	12.2	0.0	0.1	2.0	4.4	6.9
20		9.6	3.1	5.3	7.3	9.7	12.2	0.0	0.0	0.0	0.1	2.6
21		19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

⁵ SURGE refers to the storm surge value from the SLOSH Model

⁶ DPTH refers to the depth of inundation at the site (storm surge value minus the ground elevation)

MAP ID	NAME	Elevation	C1 SURGE ⁵	C2 SURGE	C3 SURGE	C4 SURGE	C5 SURGE	C1 DPTH ⁶	C2 DPTH	C3 DPTH	C4 DPTH	C5 DPTH
22	CITY OF PAHOKEE - WWTP	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	COLUMBIA HOSPITAL	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	DELRAY AMBULATORY SURGICAL & LASER CENTE	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	DELRAY BEACH FD ST 1	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	DELRAY BEACH FD ST 2	13.7	3.2	5.3	7.6	9.9	12.1	0.0	0.0	0.0	0.0	0.0
27	DELRAY BEACH FD ST 6	5.5	3.2	5.8	7.2	9.3	12.3	0.0	0.3	1.7	3.8	6.8
28	DELRAY BEACH POLICE DEPT HEADQUARTERS	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	DELRAY MEDICAL CENTER	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	FLORIDA ATLANTIC UNIVERSITY POLICE DEPT	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	FLORIDA DEPT OF ENV PROTECT/DIV OF LAW ENFRMNT SW PARK PATROL DIST	19.1	0.0	5.6	7.0	8.9	10.8	0.0	0.0	0.0	0.0	0.0
32	FLORIDA HIGHWAY PATROL TROOP L HEADQUARTERS	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	GLADES CENTRAL HIGH SCHOOL	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	GLADES GENERAL HOSPITAL	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	GOOD SAMARITAN MEDICAL CENTER	2.6	3.1	5.3	7.3	9.7	12.2	0.5	2.7	4.7	7.1	9.6
36	GULF STREAM POLICE DEPT	14.6	3.1	5.4	7.2	9.2	12.0	0.0	0.0	0.0	0.0	0.0
37	INDEPENDENCE MIDDLE	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	JFK MEDICAL CENTER	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	JUNO BEACH POLICE DEPT HEADQUARTERS	7.8	0.0	5.5	7.0	8.9	10.9	0.0	0.0	0.0	1.1	3.1
40	JUPITER INLET COLONY POLICE DEPT HEADQUARTERS	10.3	3.2	5.4	7.6	9.8	12.2	0.0	0.0	0.0	0.0	1.9
41	JUPITER MEDICAL CENTER	6.2	0.0	0.0	7.3	9.6	11.1	0.0	0.0	1.1	3.4	4.9
42	JUPITER OUTPATIENT SURGERY CENTER, LLC	8.7	0.0	0.0	0.0	8.7	10.9	0.0	0.0	0.0	0.0	2.2

⁵ SURGE refers to the storm surge value from the SLOSH Model

⁶ DPTH refers to the depth of inundation at the site (storm surge value minus the ground elevation)

MAP ID	NAME	Elevation	C1 SURGE ⁵	C2 SURGE	C3 SURGE	C4 SURGE	C5 SURGE	C1 DPTH ⁶	C2 DPTH	C3 DPTH	C4 DPTH	C5 DPTH
43	JUPITER POLICE DEPT HEADQUARTERS	7.4	0.0	0.0	7.0	8.7	10.8	0.0	0.0	0.0	1.3	3.4
44	LAKE PARK FIRE RESCUE ST 1	12.5	0.0	0.0	0.0	0.0	11.9	0.0	0.0	0.0	0.0	0.0
45	LAKE PARK POLICE / PALM BEACH CO SHERIFF LAKE PARK DIST 10	12.9	0.0	0.0	0.0	0.0	11.9	0.0	0.0	0.0	0.0	0.0
46	LAKE WORTH CITY LIBRARY	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	LAKESHORE MIDDLE SCHOOL	17.9	9.7	10.8	11.9	12.5	12.7	0.0	0.0	0.0	0.0	0.0
48	LAKESIDE CHURCH FAITH-BASED FACILITY LASER & SURGERY CENTER OF PALM BEACHES	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	LAKESIDE CHURCH FAITH-BASED FACILITY LASER & SURGERY CENTER OF PALM BEACHES	13.1	0.0	0.0	0.0	0.0	10.6	0.0	0.0	0.0	0.0	0.0
50	MACEDONIA CHURCH FAITH-BASED FACILITY MANALAPAN POLICE / PALM BEACH CO FIRE RESCUE ST 3	18.5	22.8	25.6	28.3	30.1	30.9	4.3	7.1	9.8	11.6	12.4
51	MCLEOD BETHUNE ELEMENTARY SCHOOL	4.6	3.1	5.2	7.4	9.6	11.9	0.0	0.6	2.8	5.0	7.3
52	NORTH COUNTY SURGICENTER	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	NORTH PALM BEACH FIRE RESCUE	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54	NORTH PALM BEACH POLICE DEPT HEADQUARTERS	13.0	0.0	0.0	0.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0
55	NORTHPOINT SURGERY AND LASER CENTER	12.6	0.0	0.0	0.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0
56	OAKWOOD CENTER OF PALM BEACHES, INC.	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	OCEAN RIDGE FD	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	OUTPATIENT CENTER OF BOYNTON BEACH, LTD.	7.1	3.1	5.4	7.5	9.8	13.3	0.0	0.0	0.4	2.7	6.2
59	OUTPATIENT CENTER OF DELRAY	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	OUTPATIENT PLASTIC SURGERY CENTER	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	OUTPATIENT SURGERY CENTER OF BOCA	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	PAHOKEE FIRE STATION 72	10.5	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.5
63		19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

⁵ SURGE refers to the storm surge value from the SLOSH Model

⁶ DPTH refers to the depth of inundation at the site (storm surge value minus the ground elevation)

MAP ID	NAME	Elevation	C1 SURGE ⁵	C2 SURGE	C3 SURGE	C4 SURGE	C5 SURGE	C1 DPTH ⁶	C2 DPTH	C3 DPTH	C4 DPTH	C5 DPTH
64	PAHOKEE POLICE DEPT HEADQUARTERS	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	PALM BEACH (TOWN OF) POLICE DEPT HEADQUARTERS	5.8	0.0	0.0	7.2	9.7	12.1	0.0	0.0	1.4	3.9	6.3
66	PALM BEACH CO FIRE RESCUE ST 11	9.2	2.7	4.7	8.2	11.5	14.3	0.0	0.0	0.0	2.3	5.1
67	PALM BEACH CO FIRE RESCUE ST 15	18.4	0.0	5.5	7.0	9.0	10.9	0.0	0.0	0.0	0.0	0.0
68	PALM BEACH CO FIRE RESCUE ST 18	4.4	3.1	5.2	7.8	10.2	11.7	0.0	0.8	3.4	5.8	7.3
69	PALM BEACH CO FIRE RESCUE ST 37	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	PALM BEACH CO LIBRARY - BELLE GLADE BRANCH	14.1	9.7	10.8	11.8	12.4	12.7	0.0	0.0	0.0	0.0	0.0
71	PALM BEACH CO LIBRARY - CLARENCE E. ANTHONY BRANCH	14.1	9.7	10.8	11.9	12.5	12.7	0.0	0.0	0.0	0.0	0.0
72	PALM BEACH CO LIBRARY - LOULA V. YORK BRANCH	16.8	22.4	24.7	26.7	28.3	29.6	5.6	7.9	9.9	11.5	12.8
73	PALM BEACH COUNTY SHERIFF DIST. 5	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74	PALM BEACH EYE CLINIC	6.7	3.1	5.3	7.3	9.7	12.2	0.0	0.0	0.6	3.0	5.5
75	PALM BEACH FIRE RESCUE ST 1	4.2	0.0	0.0	7.2	9.7	12.1	0.0	0.0	3.0	5.5	7.9
76	PALM BEACH GARDENS MEDICAL CENTER	9.9	0.0	0.0	0.0	0.0	10.4	0.0	0.0	0.0	0.0	0.5
77	PALM BEACH LAKES SURGERY CENTER	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	PALM BEACH OUTPATIENT SURGICAL CENTER	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	PALM BEACH SHORES FD	11.3	3.0	5.1	7.2	9.3	11.4	0.0	0.0	0.0	0.0	0.1
80	PINECREST REHABILITATION HOSPITAL	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	PRESIDENTIAL SURGICENTER, INC.	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	RIVIERA BEACH FIRE RESCUE ST 1	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83	RIVIERA BEACH FIRE RESCUE ST 3	0.7	3.0	5.1	7.2	9.4	11.5	2.3	4.4	6.5	8.7	10.8
84	SAINT MARY'S MEDICAL CENTER	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

⁵ SURGE refers to the storm surge value from the SLOSH Model

⁶ DPTH refers to the depth of inundation at the site (storm surge value minus the ground elevation)

MAP ID	NAME	Elevation	C1 SURGE ⁵	C2 SURGE	C3 SURGE	C4 SURGE	C5 SURGE	C1 DPTH ⁶	C2 DPTH	C3 DPTH	C4 DPTH	C5 DPTH
85	SANCTUARY SURGERY CENTER	11.3	3.2	5.8	7.2	9.2	12.3	0.0	0.0	0.0	0.0	1.0
86	SOUTH BAY FIRE DEPT SOUTH COUNTY OUTPATIENT SURGERY, LLC	15.2	9.7	10.8	11.9	12.5	12.7	0.0	0.0	0.0	0.0	0.0
87	SOUTH PALM AMBULATORY SURGERY CENTER	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	SOUTH PALM BEACH FIRE DEPT	22.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89	TEQUESTA FIRE RESCUE	5.2	3.2	5.5	7.3	9.7	11.9	0.0	0.3	2.1	4.5	6.7
90	U.S. CITIZENSHIP & IMMIGRATION SERVICES OFFICE WEST PALM BEACH SUB OFFICE	12.3	2.8	4.9	8.2	11.4	13.5	0.0	0.0	0.0	0.0	1.2
91	U.S. CUSTOMS AND BORDER PROTECTION PORT OF ENTRY WEST PALM BEACH	11.0	3.1	5.4	7.3	9.7	12.2	0.0	0.0	0.0	0.0	1.2
92	VETERANS AFFAIRS MEDICAL CTR	10.6	0.0	0.0	0.0	0.0	12.5	0.0	0.0	0.0	0.0	1.9
93	VISUAL HEALTH @ JUPITER EYE CENTER WATERSIDE AMBULATORY SURGICAL CENTER, IN	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94		4.8	3.1	5.4	7.1	8.7	10.9	0.0	0.6	2.3	3.9	6.1
95		2.0	3.1	5.3	7.3	9.7	12.2	1.1	3.3	5.3	7.7	10.2
96		16.4	0.0	0.0	0.0	0.0	12.1	0.0	0.0	0.0	0.0	0.0
97		8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98		15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99		3.1	3.1	5.4	7.3	9.7	12.2	0.0	2.3	4.2	6.6	9.1

⁵ SURGE refers to the storm surge value from the SLOSH Model

⁶ DPTH refers to the depth of inundation at the site (storm surge value minus the ground elevation)

STORM TIDE ATLAS

The surge inundation limits (MOM surge heights minus the ground elevations) are provided as GIS shape files and graphically displayed on maps in the *Hurricane Storm Tide Atlas for the Treasure Coast Region*. The *Atlas* was prepared by Treasure Coast Regional Planning 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 2008 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 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 for saltwater flooding, the Palm Beach County surge atlas also reflects the uniqueness of Lake Okeechobee which experience fluctuations caused by northern fresh water flow from the Kissimmee River as well as rain. The Lake Okeechobee storm surge model is measured at lake levels of 20ft.**

Figure 8 provides an index of the map series.

NOTES ON STORM TIDE LIMITS

Historically, the SLOSH storm surge analysis had focused on "average" storm parameters (size and forward speed), although the intensity and angle of approach was modeled to include direct strikes and catastrophic intensity. In the 2010 Regional Evacuation Study Update, approximately 13,000 hypothetical hurricanes were included in the SLOSH suite of storms modeled varying forward speeds and the radii of maximum winds to include the large storm events and different forward speeds. This allowed for the development of a truer picture of the storm surge vulnerability in the region. The five categories of hurricane reflect a "worst probable" storm tide limit for hurricanes holding the wind speed constant (consistent with the Saffir Simpson Hurricane Wind Scale) while varying storm parameters include size, forward speed, and angle of approach.

This has led to some confusion regarding evacuation decision-making since hurricane evacuations are based primarily on storm surge vulnerability. The National Oceanic and Atmospheric Administration (NOAA) is working to enhance the analysis and prediction of storm surge. Direct estimates of inundation are being communicated in the NHC's Public Advisories and in the Weather Forecast Office's (WFO) Hurricane Local Statements. NHC's probabilistic storm surge product, which provides the likelihood of a specific range of storm surge values, became operational in 2009, and the NWS Meteorological Development Laboratory is providing experimental, probabilistic storm surge products for 2010. In addition, coastal weather forecast offices will provide experimental Tropical Cyclone Impacts Graphics in 2010; these include a qualitative graphic on the expected storm surge impacts. Finally, the NWS is exploring the possibility of issuing explicit Storm Surge Warnings which could be implemented in the next couple of years. In all of these efforts, the NWS is working to provide specific and quantitative information to support decision-making at the local level¹. NOAA continues to emphasize that the hurricane forecasts are not 100% accurate and dependent upon many factors.

Palm Beach County Legend

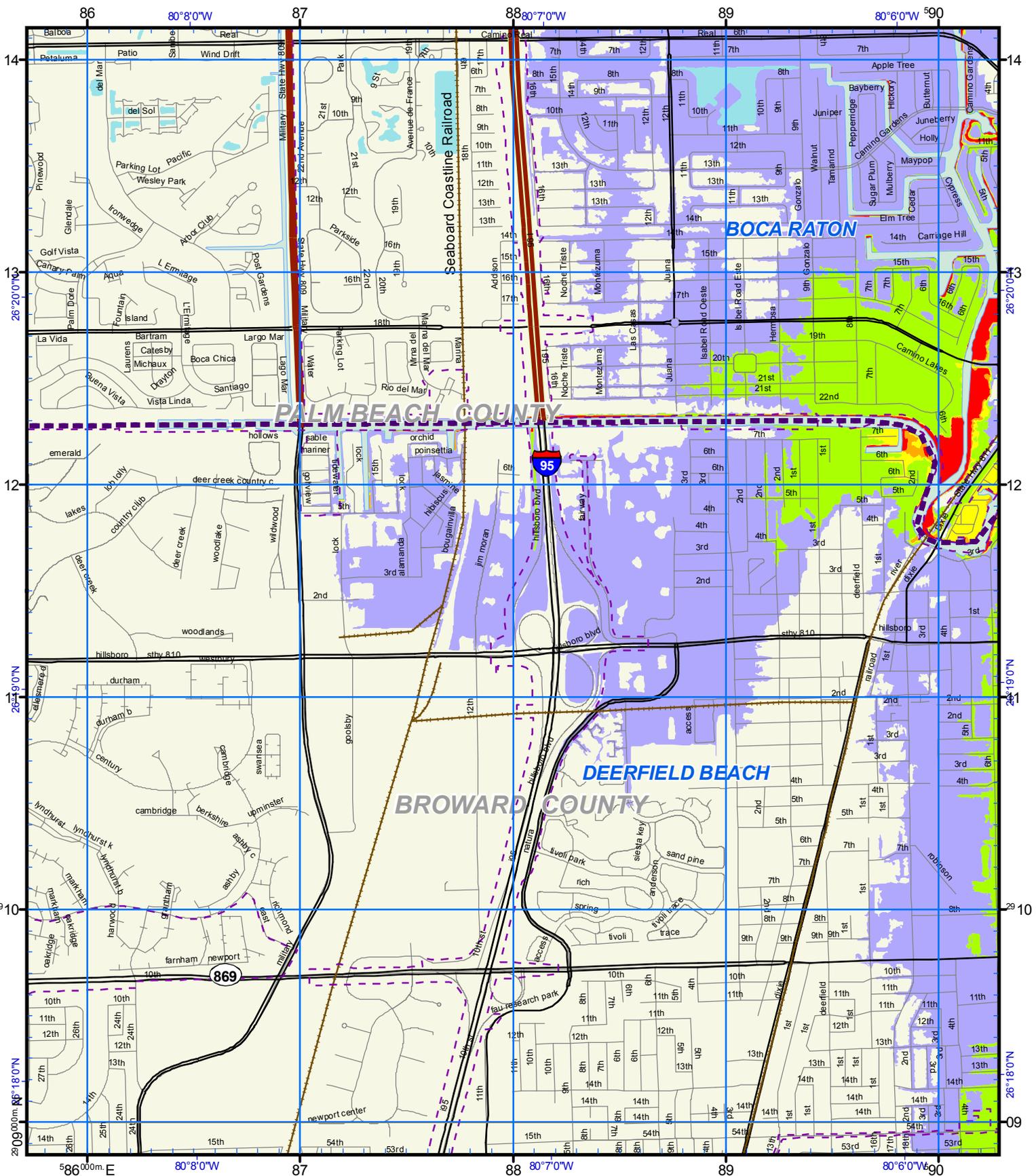
CATEGORY : OVERALL HGT

	1 : Up to 4 ft
	2 : Up to 6 ft
	3 : Up to 8 ft
	4 : Up to 12 ft
	5 : Up to 14 ft

To the left are the storm tide limits identified for Palm Beach County under the five (5) categories of hurricane on the Saffir Simpson Hurricane Wind Scale. It is important to recognize the following:

- The surge tide values represent the highest surge height elevation above a standard datum (NAVD88) predicted by the model in the entire county and will only be appropriate for selected areas.
- Typically the highest surge tide values are NOT the surge heights predicted at the coast. The highest storm tide values are typically experienced inside bays and up rivers and inlets (water above ground).
- Storm Tide ranges by category of storm are presented on Table 3 on page 13 of this document.
- For surge heights at specific locations, please refer to Table 4 on page 19 which provides the expected storm surge elevation at points of reference and the actual inundation (water depth) at that site.

¹http://www.nhc.noaa.gov/sshws_statement.shtml

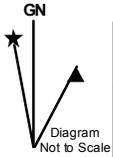


US National Grid
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

This map is for reference and 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 NAVD83 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

Hospital	Points of Reference	Evacuation Route	City Limits	Lakes	Major Water
Cat 1	Cat 2	Cat 3	Cat 4	Cat 5	

Storm Tide Zones
Palm Beach County, 2009

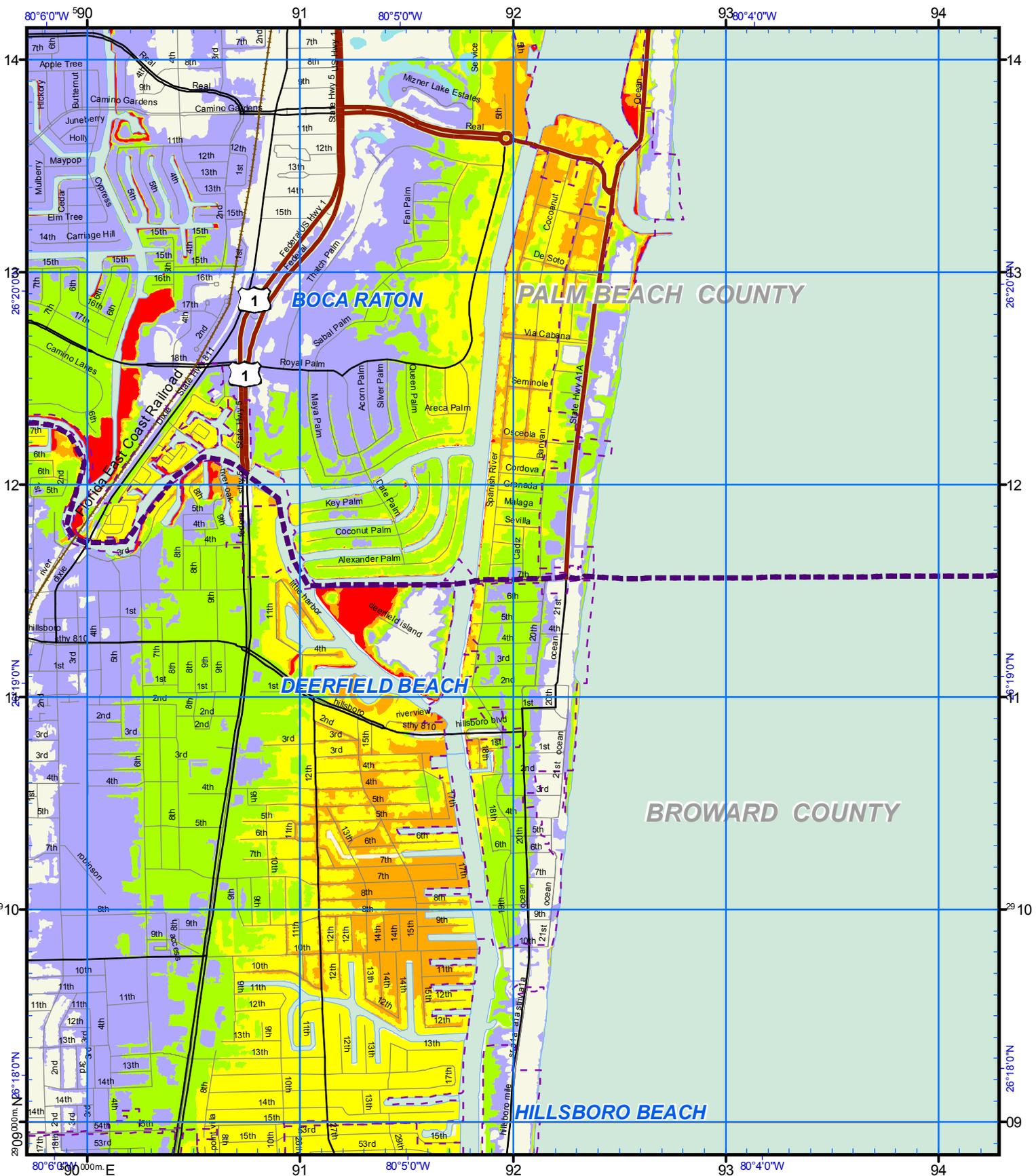
Scale - 1:24,000

0 2,000 Feet

USNG Page **17R NK 8810**

Map Plate **1**

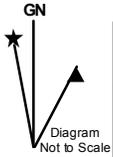




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Date = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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



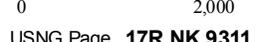
- Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
 2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
 3. The Points of Reference are locations determined to be relevant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

- Legend**
- Hospital
 - Points of Reference
 - Evacuation Route
 - City Limits
 - Lakes
 - Major Water

- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

Storm Tide Zones
Palm Beach County, 2009

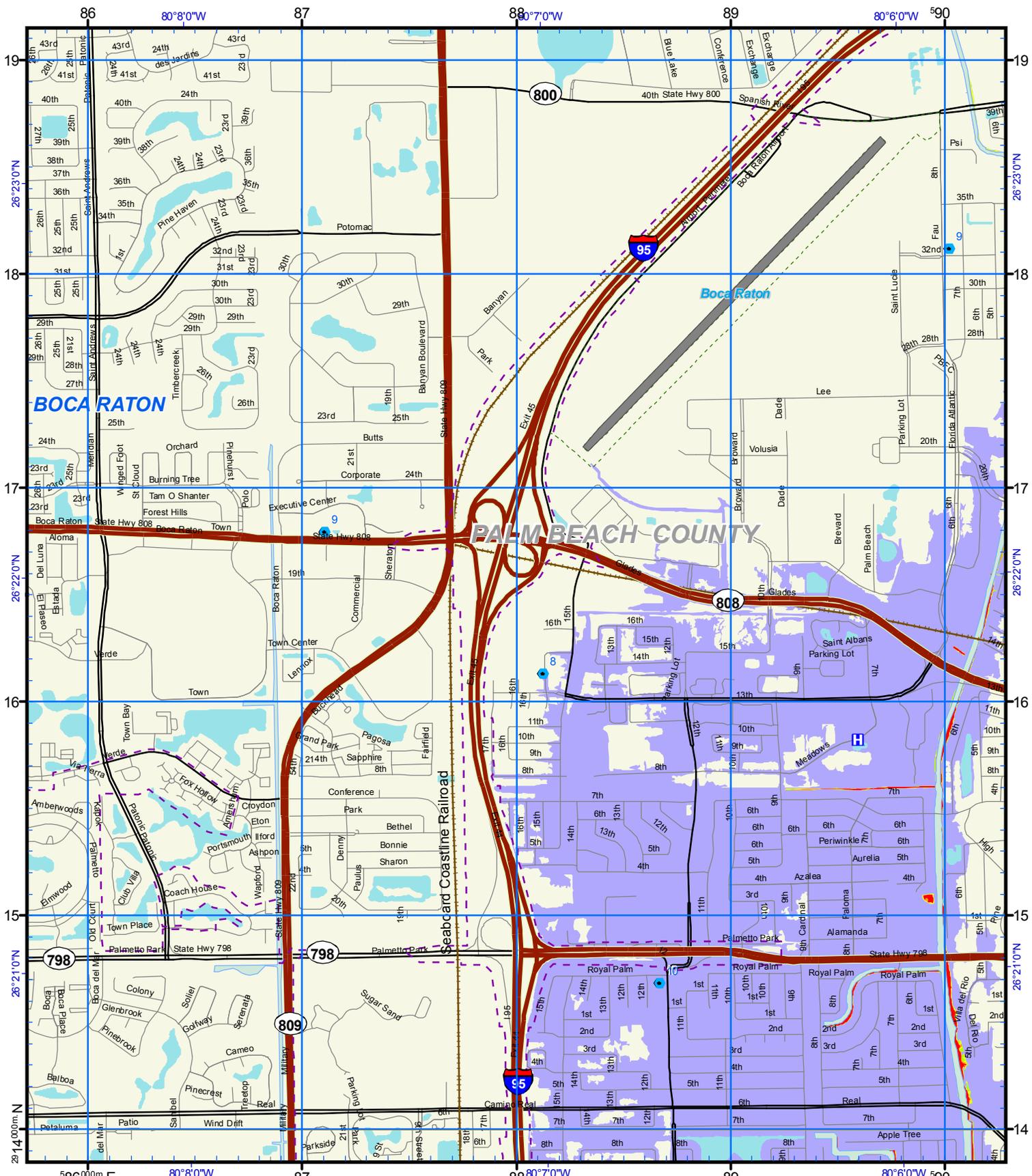
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USNG Page **17R NK 9311**

Map Plate **2**

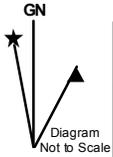




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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- Notes:
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- Legend**
- Hospital
 - Points of Reference
 - Evacuation Route
 - City Limits
 - Lakes
 - Major Water

- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

Storm Tide Zones
Palm Beach County, 2009

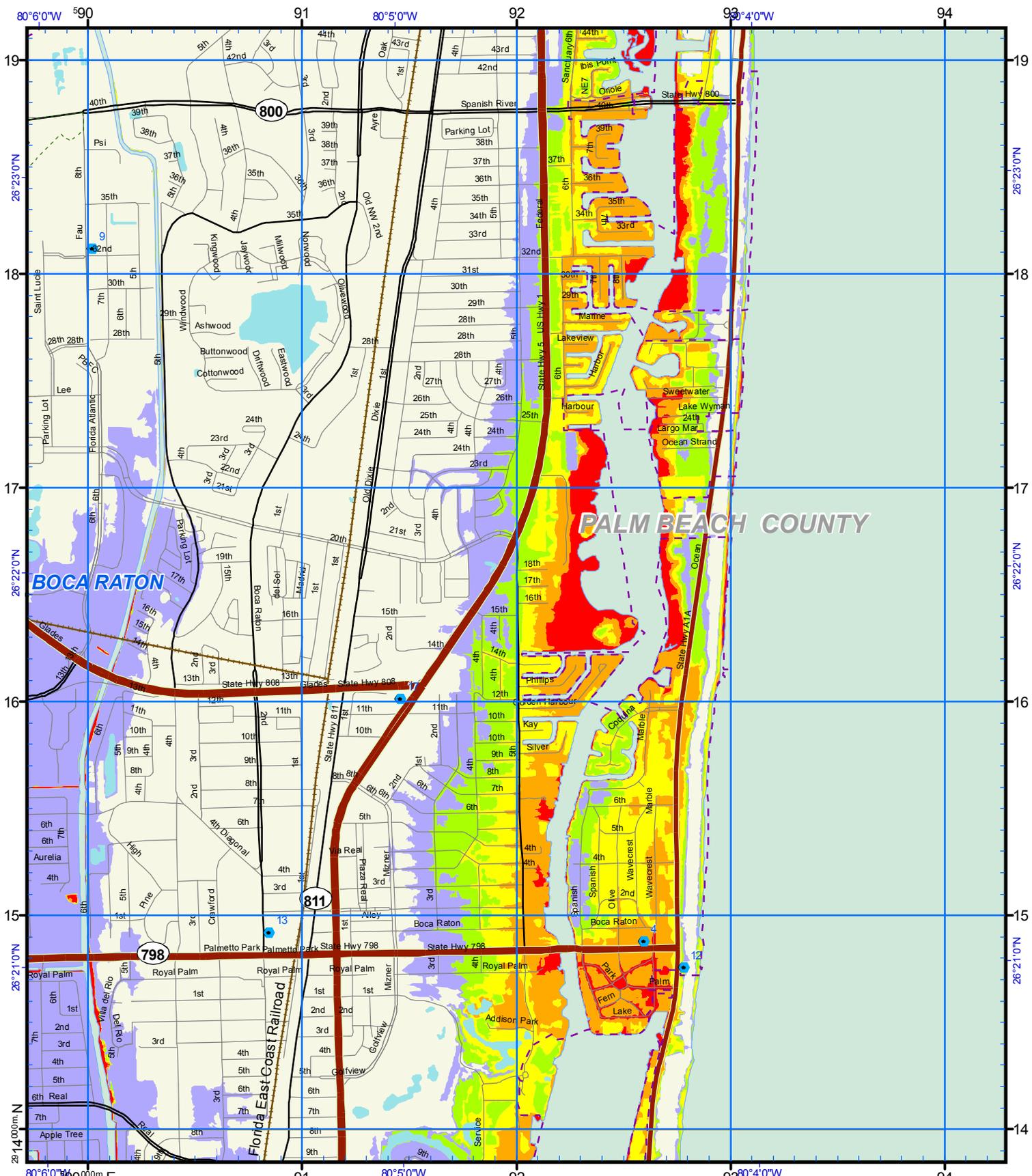
Scale - 1:24,000



USNG Page **17R NK 8914**

Map Plate **3**

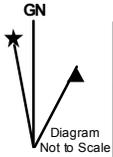




US National Grid
 100,000-m Square ID
NK
 Grid Zone Designation
17R

Date = NAD 1983, 1,000-m USNG
 Page Index by Delta State University 2009

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- Notes:
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 3. The Points of Reference are locations determined to be relevant to emergency management officials.

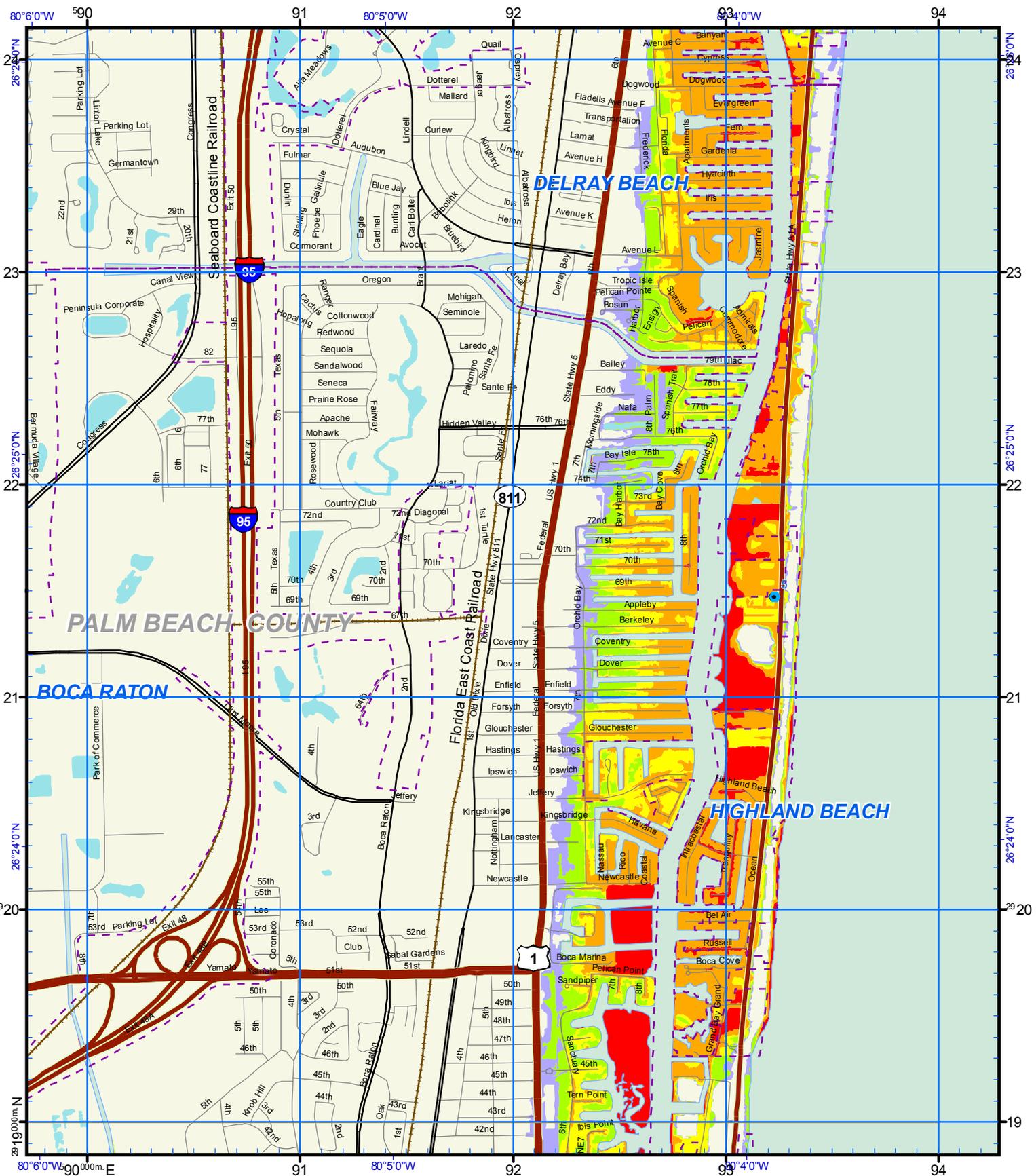
- Legend**
- Hospital
 - Points of Reference
 - Evacuation Route
 - City Limits
 - Lakes
 - Major Water

- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

Storm Tide Zones
 Palm Beach County, 2009
 Scale - 1:24,000

 USNG Page **17R NK 9314**
 Map Plate **4**

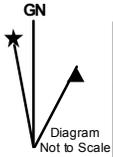




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

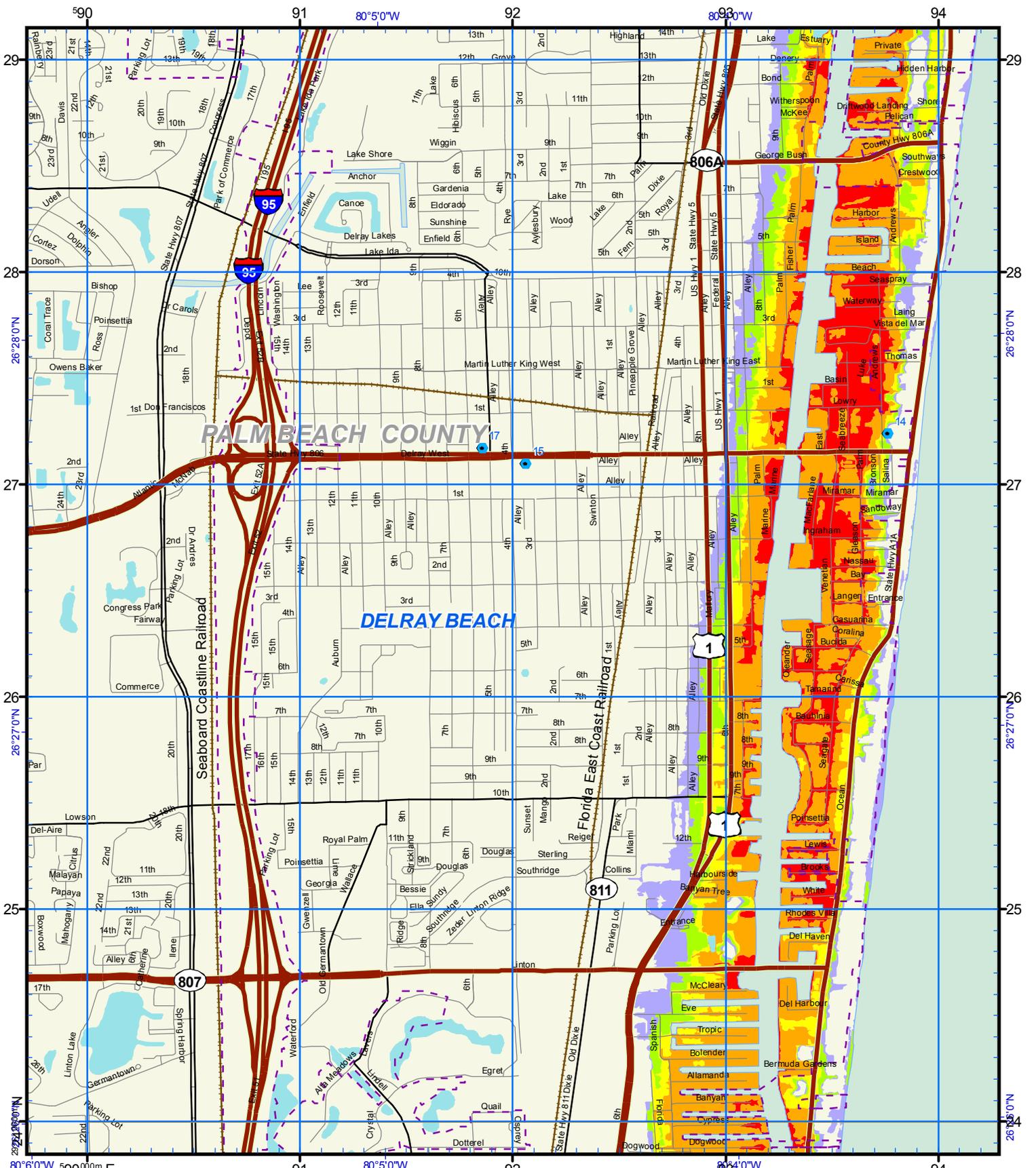
Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000

USNG Page **17R NK 9319**
Map Plate **5**

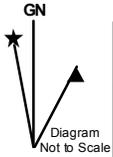




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Date = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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- Notes:
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 2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
 3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

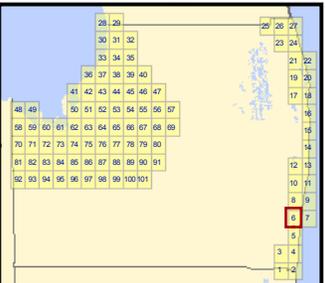
Storm Tide Zones
Palm Beach County, 2009

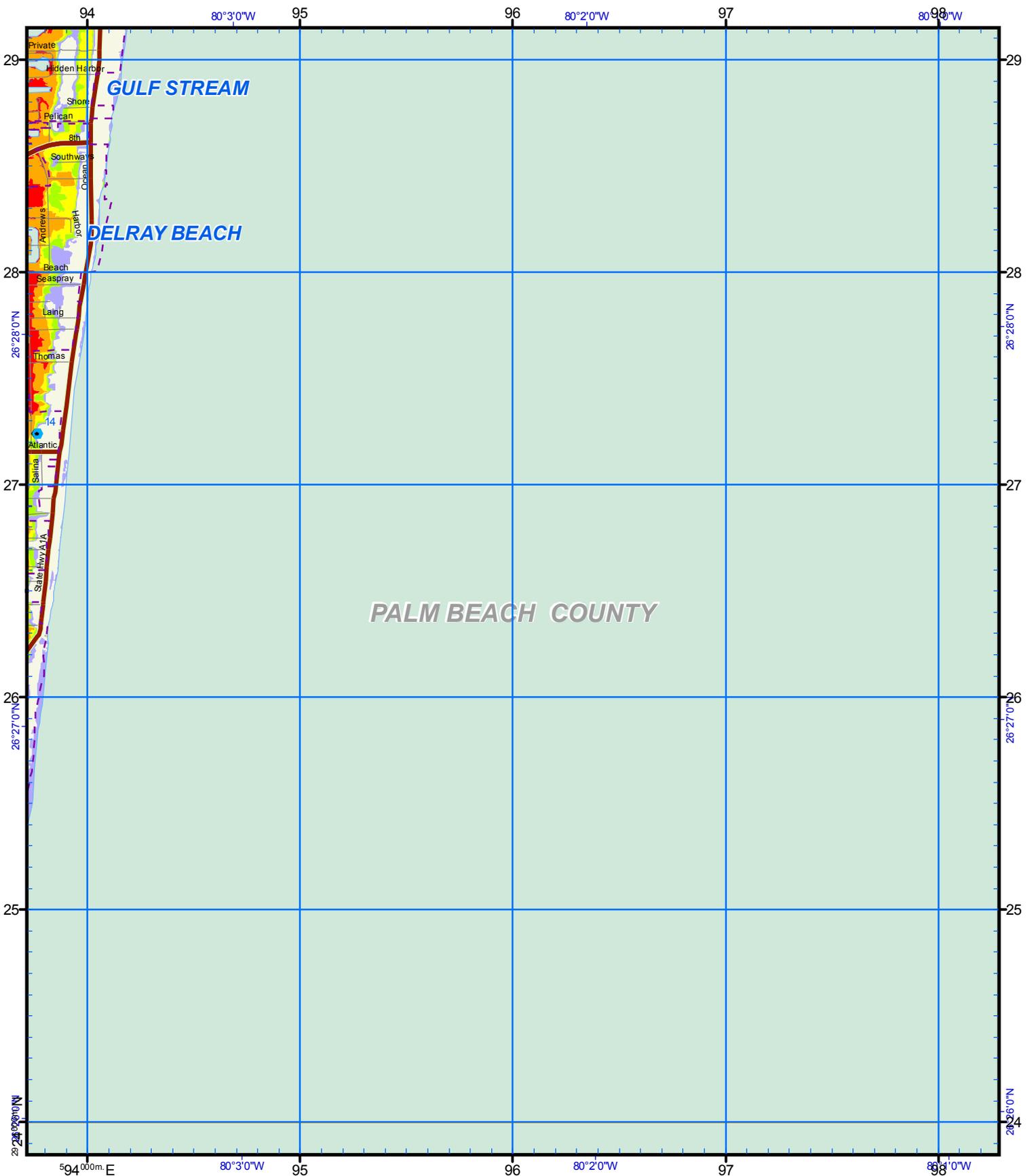
Scale - 1:24,000

0 2,000 Feet

USNG Page 17R NK 9324

Map Plate 6

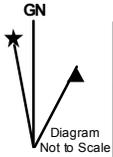




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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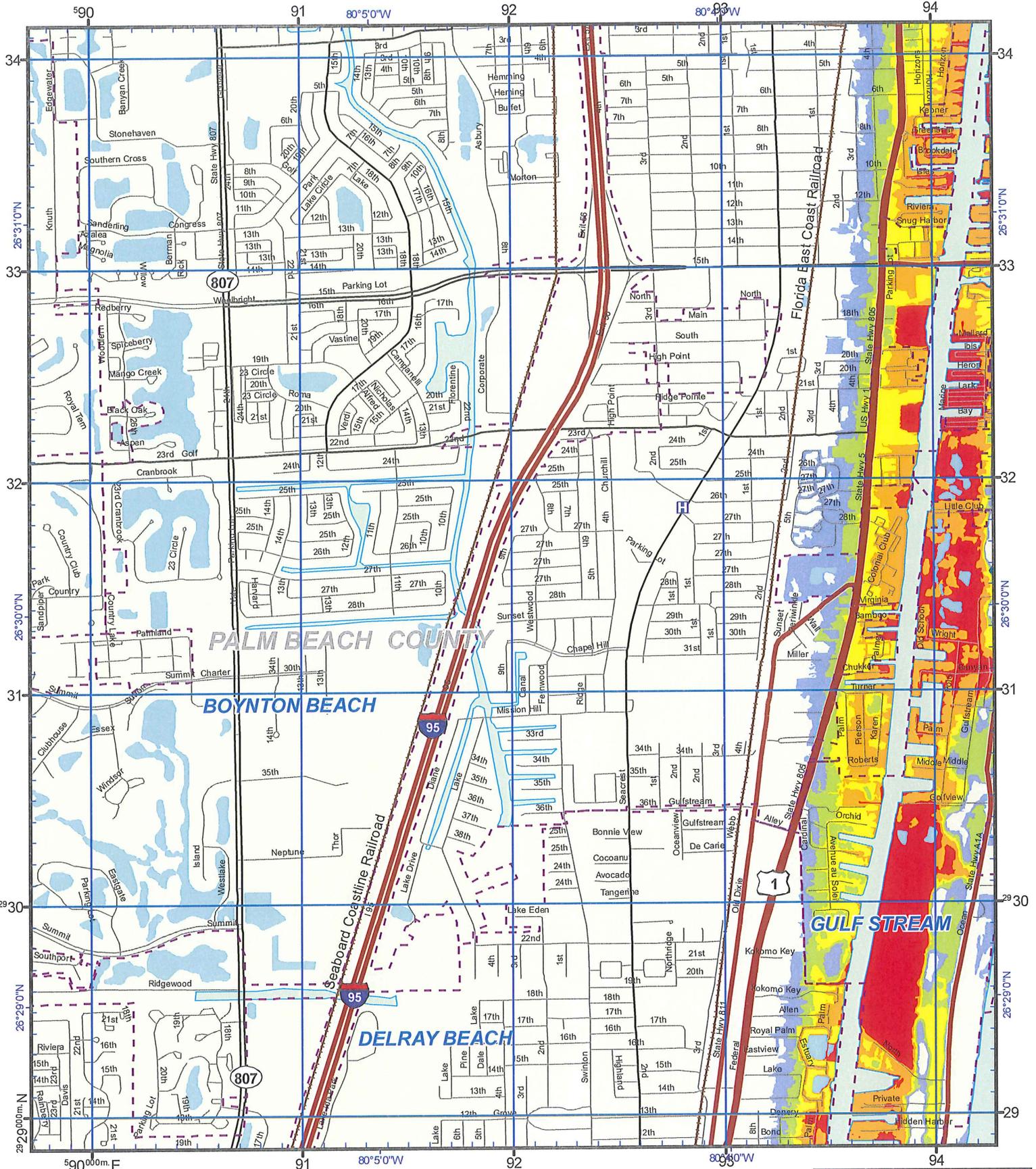
Legend

Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

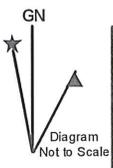
Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000

USNG Page **17R NK 9724**
Map Plate **7**





US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG
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Notes:
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2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
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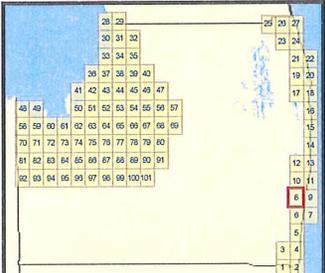
Legend

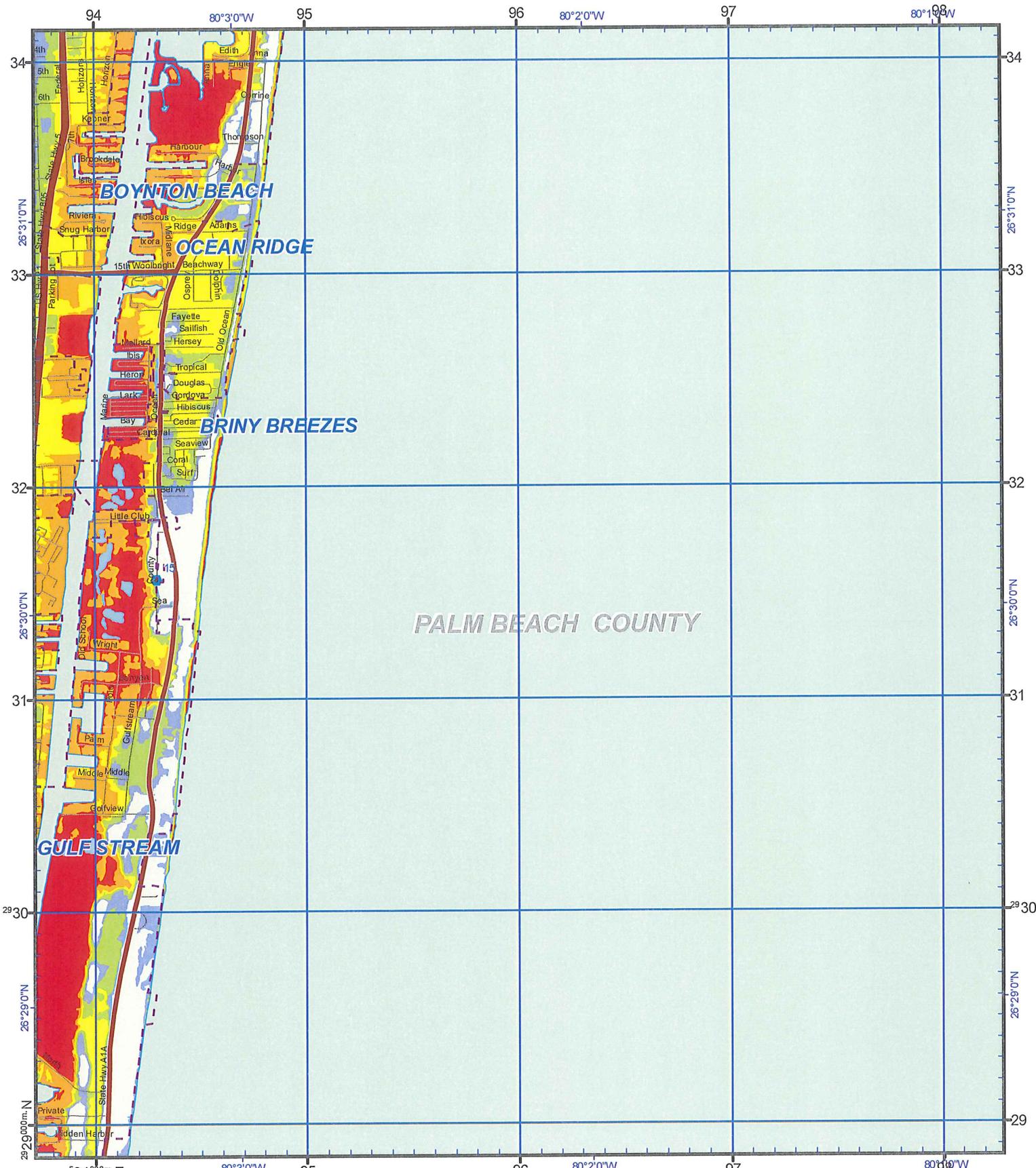
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

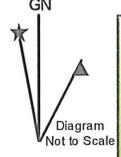
- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 9333
Map Plate 8





US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

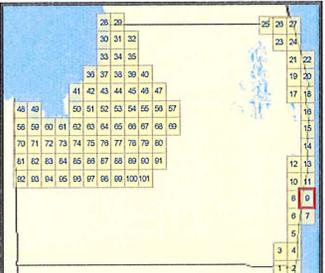


Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
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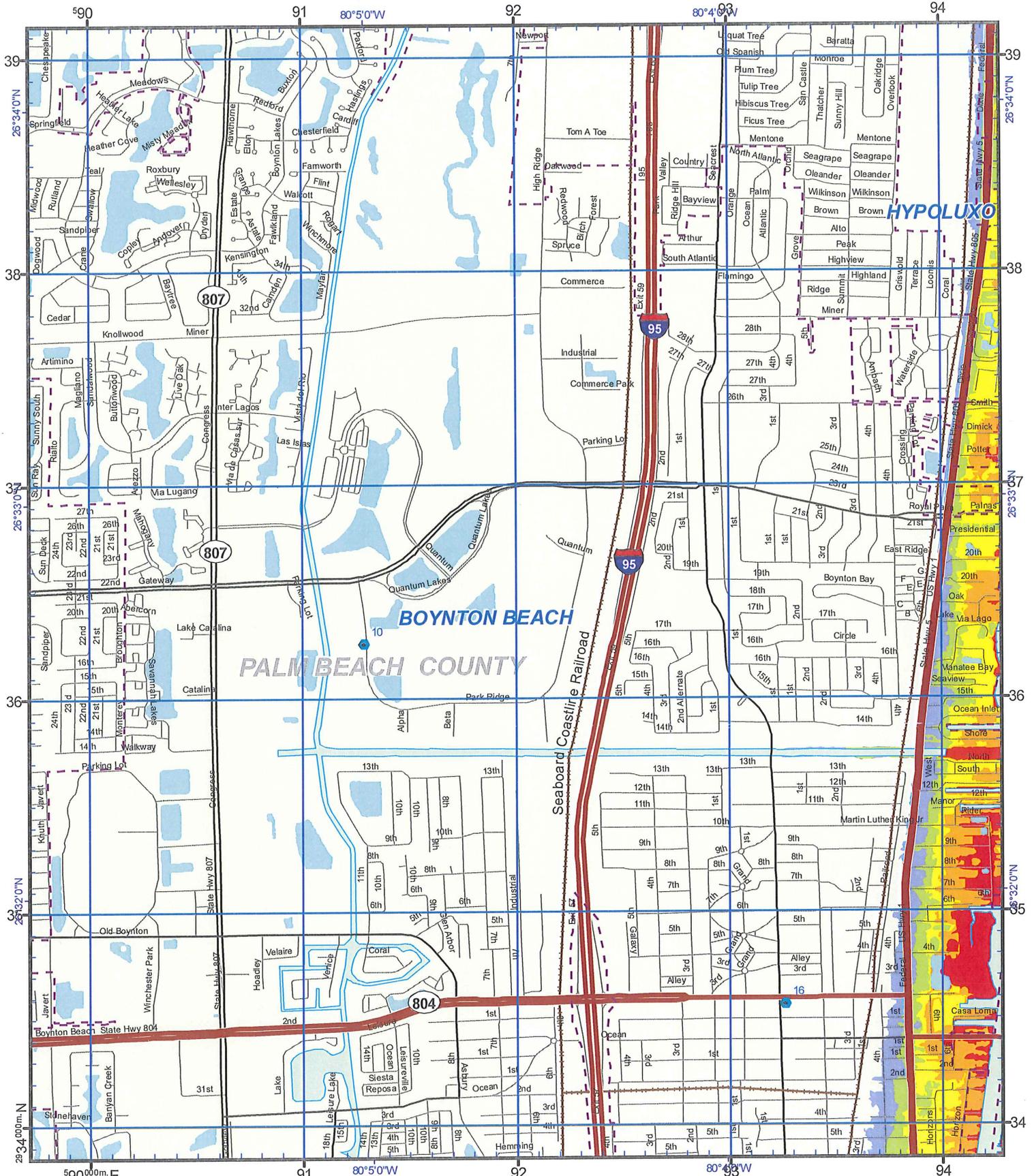
Legend

	Hospital		Cat 1
	Points of Reference		Cat 2
	Evacuation Route		Cat 3
	City Limits		Cat 4
	Lakes		Cat 5
	Major Water		

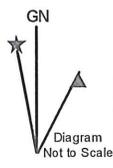
Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 9733
Map Plate 9



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US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009



Notes:
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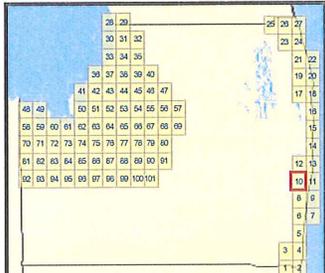
Legend

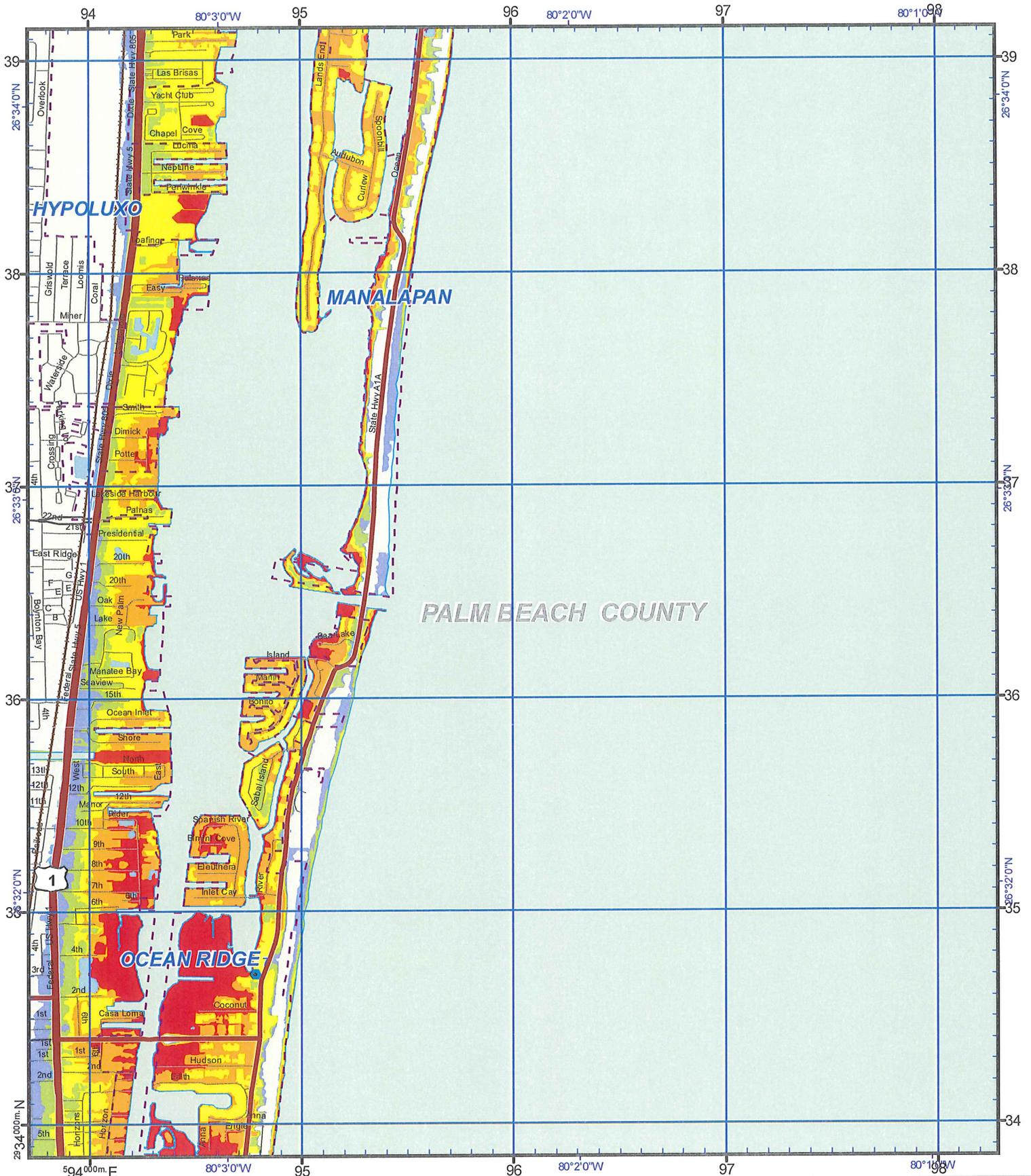
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page **17R NK 9334**
Map Plate **10**

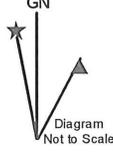




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:
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3. The Points of Reference are locations determined to be relevant to emergency management/tidals.

Legend

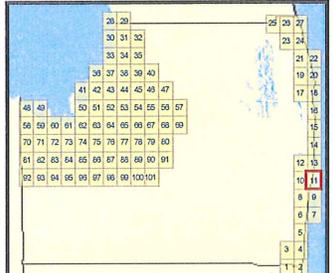
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

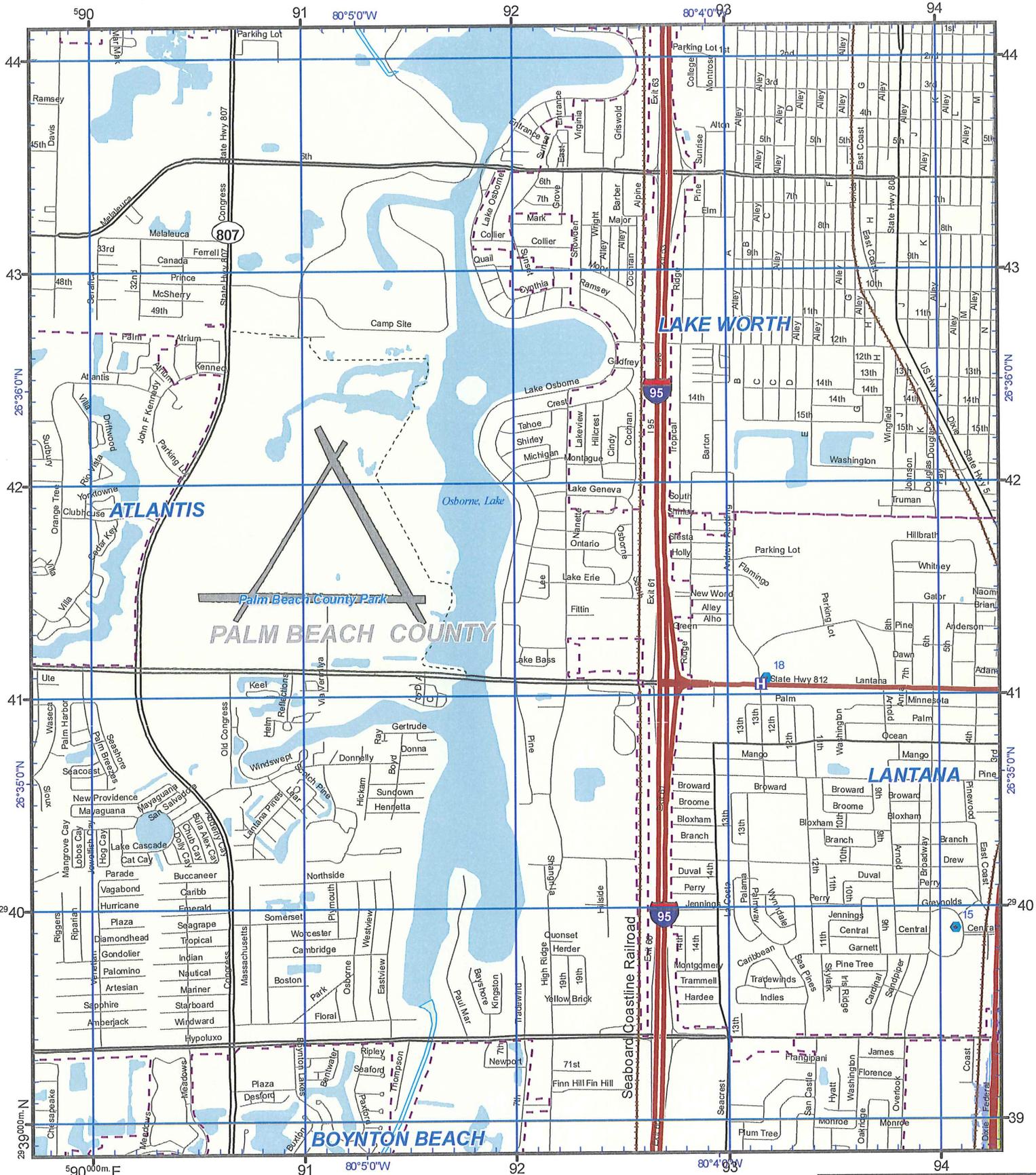
Cat	Color
1	Red
2	Orange
3	Yellow
4	Light Green
5	Blue

Storm Tide Zones
Palm Beach County, 2009

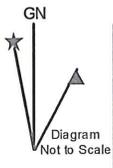
Scale - 1:24,000

USNG Page 17R NK 9734
Map Plate 11





US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009



Notes:
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3. The Points of Reference are locations determined to be relevant to emergency management officials.

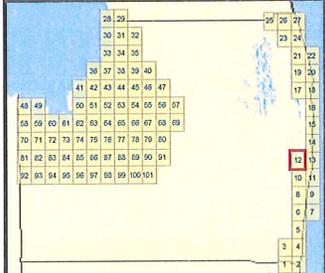
Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

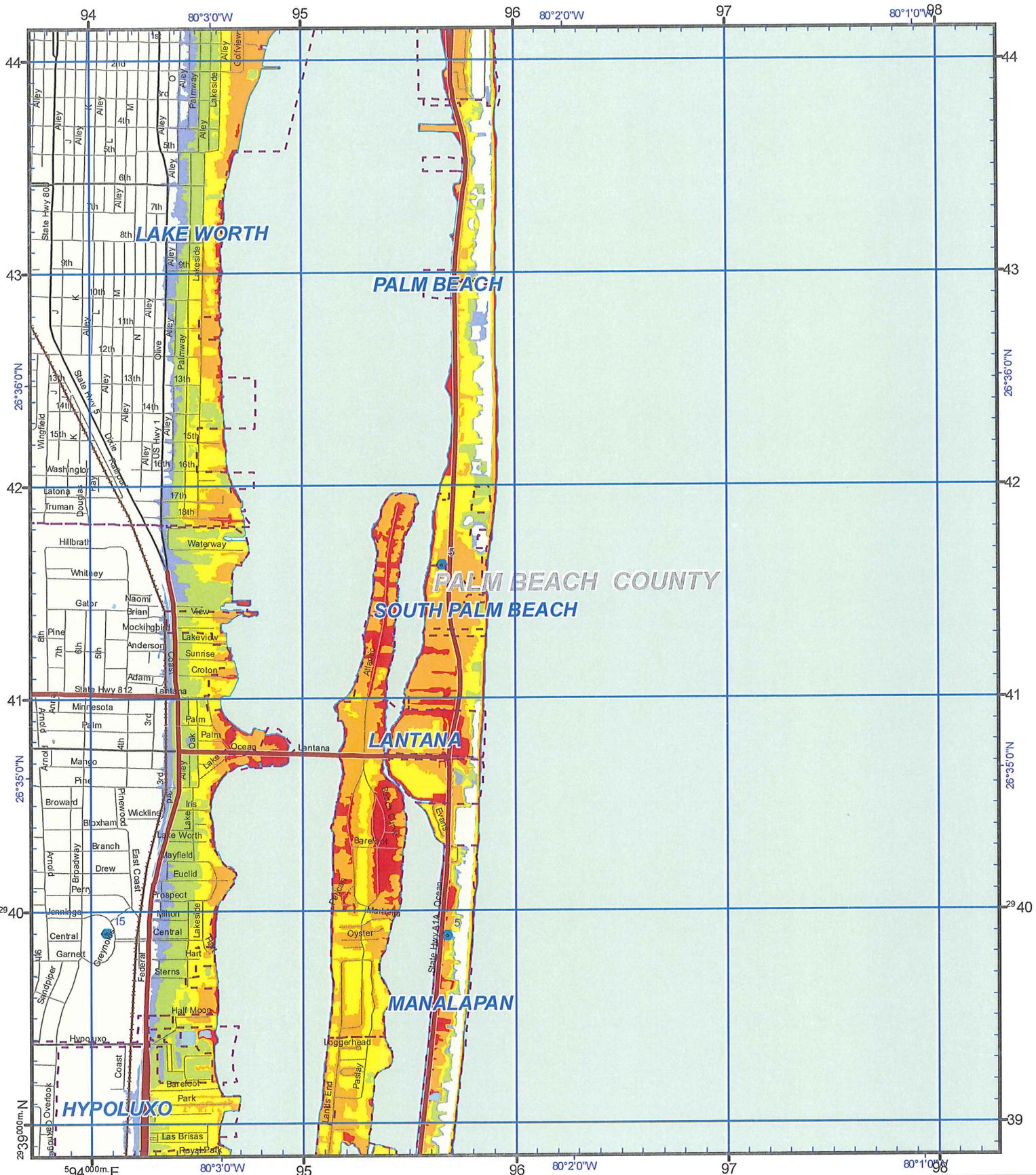
Cat

- 1
- 2
- 3
- 4
- 5

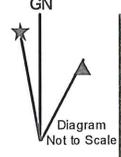
Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 9341
Map Plate 12



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Produced by Treasure Coast Regional Planning Council for Florida Division of Emergency Management, 2009-2010



US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009



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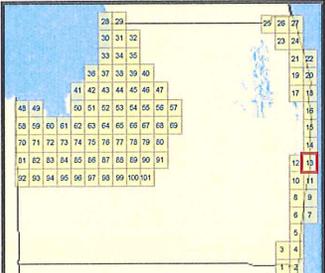
Legend

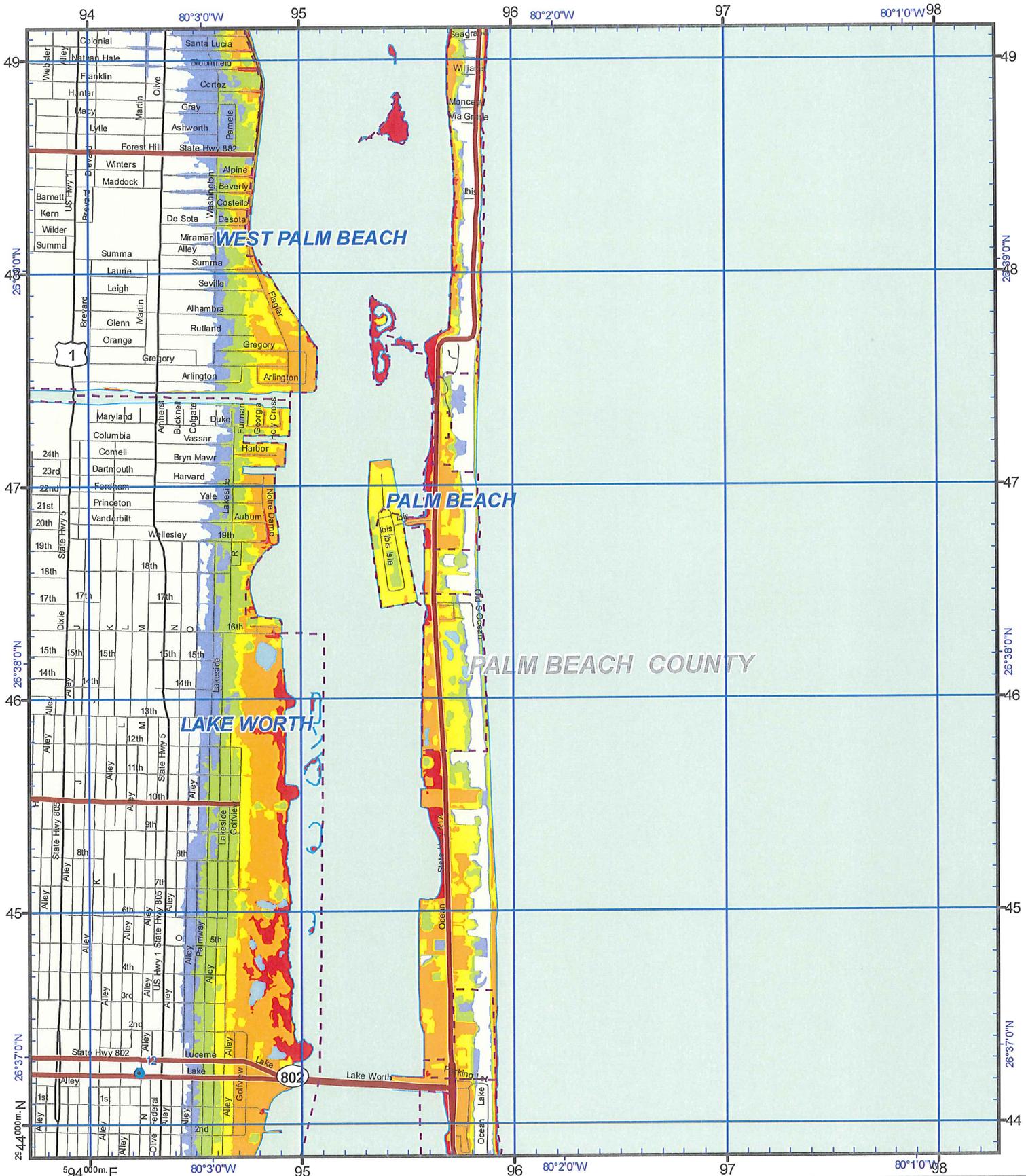
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 9741
Map Plate 13



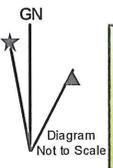


US National Grid
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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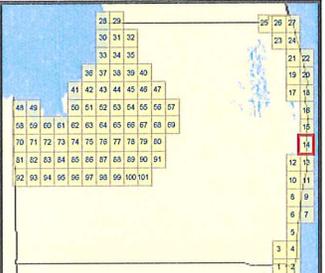
- Legend
- Hospital
 - Points of Reference
 - Evacuation Route
 - City Limits
 - Lakes
 - Major Water

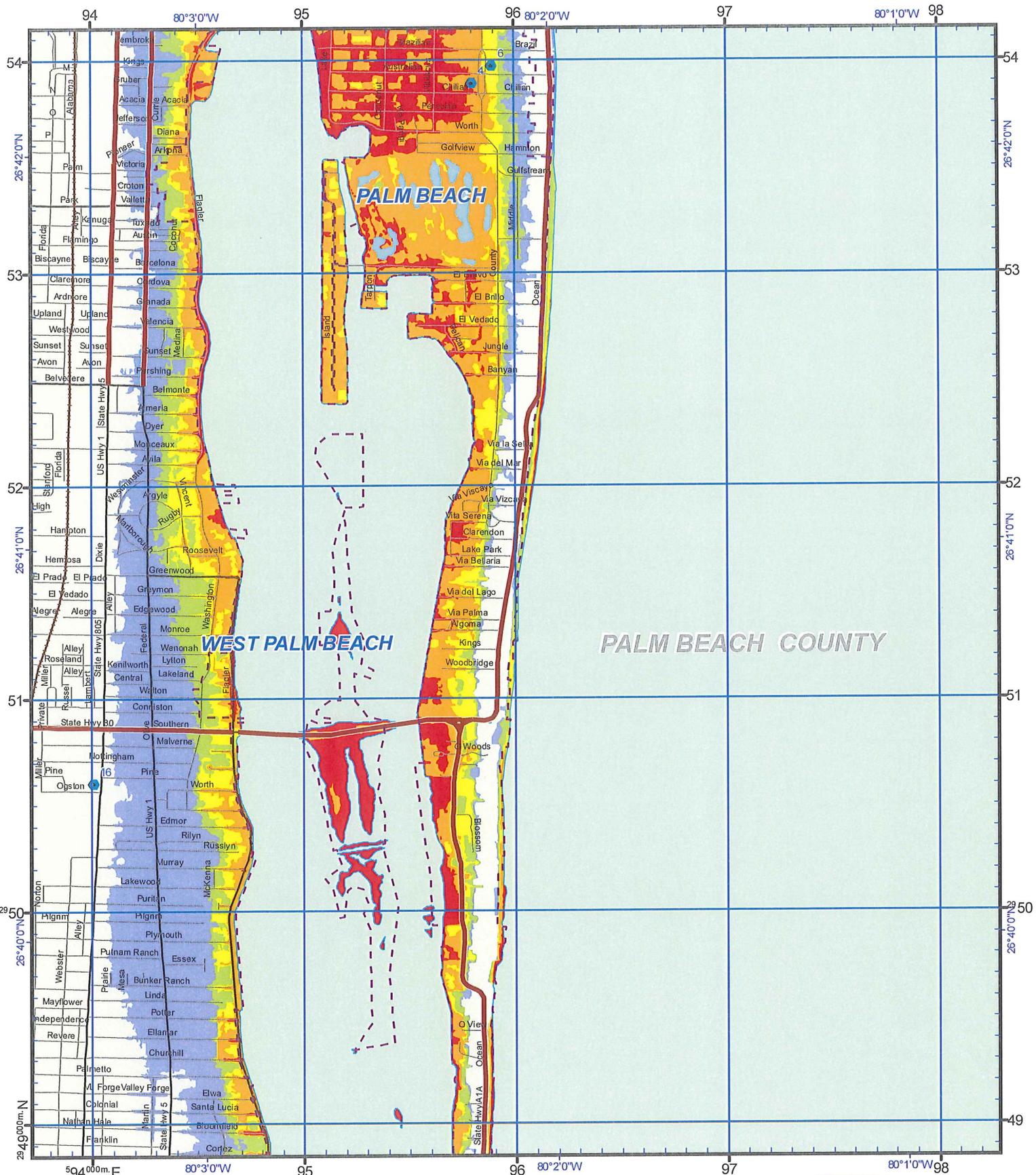
- Cat
- 1
 - 2
 - 3
 - 4
 - 5

Storm Tide Zones
Palm Beach County, 2009

Scale - 1:24,000

USNG Page 17R NK 9744
Map Plate 14



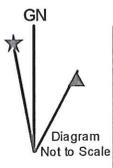


US National Grid
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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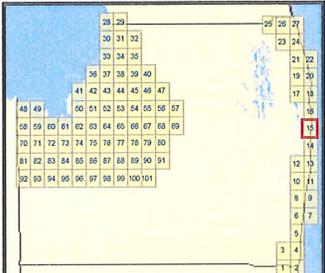


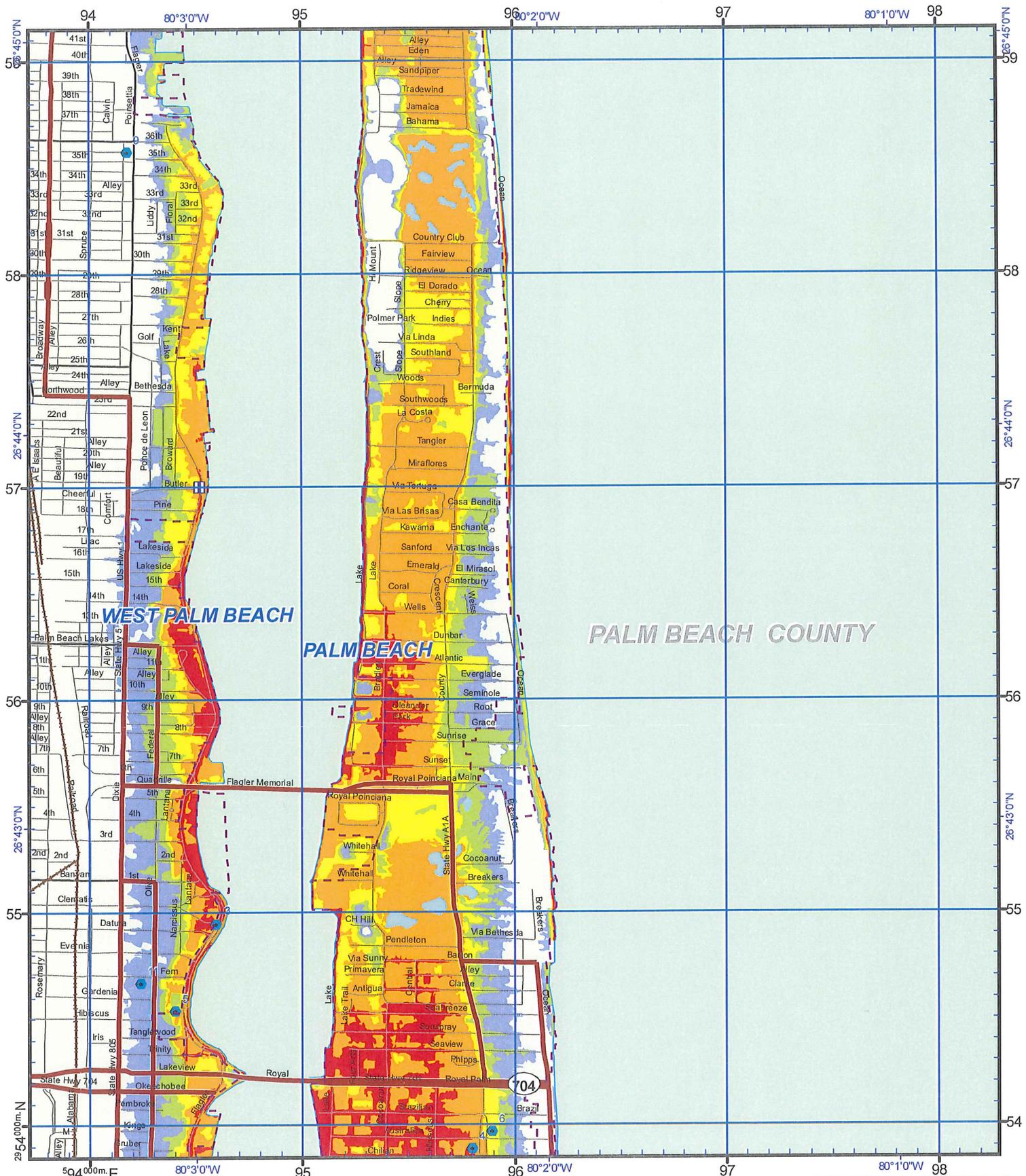
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
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3. The Points of Reference are locations determined to be relevant to emergency management officials.

- Legend**
- Hospital
 - Points of Reference
 - Evacuation Route
 - City Limits
 - Lakes
 - Major Water

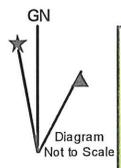
- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 9753
Map Plate 15





US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009



Notes:
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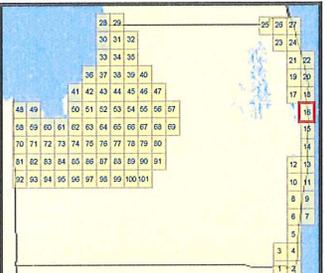
Legend

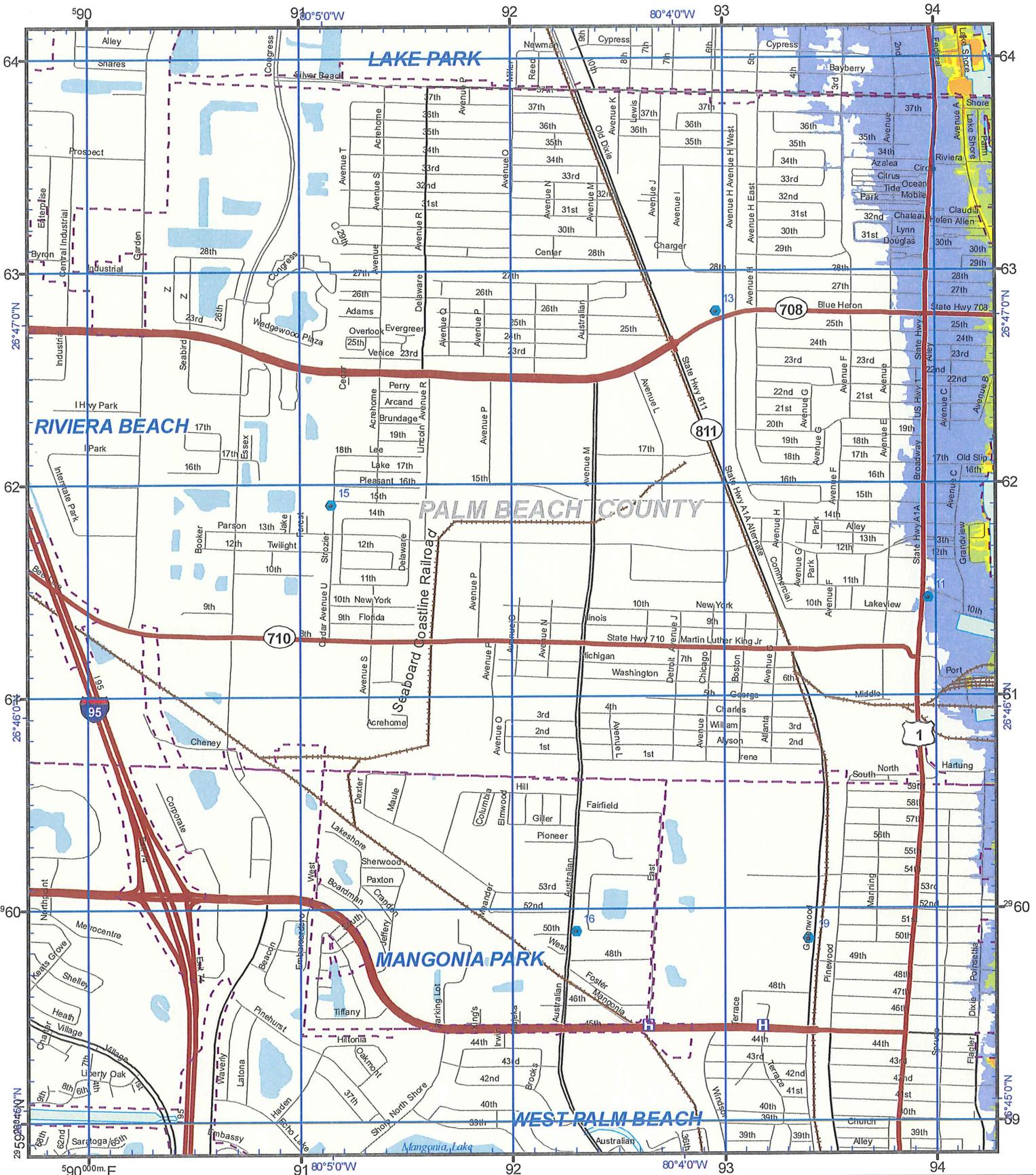
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 9755
Map Plate 16

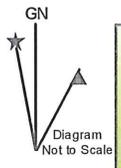




US National Grid
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009



Notes:

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Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

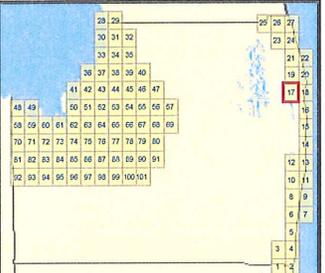
Cat	Color
1	Red
2	Orange
3	Yellow
4	Light Green
5	Blue

Storm Tide Zones
Palm Beach County, 2009

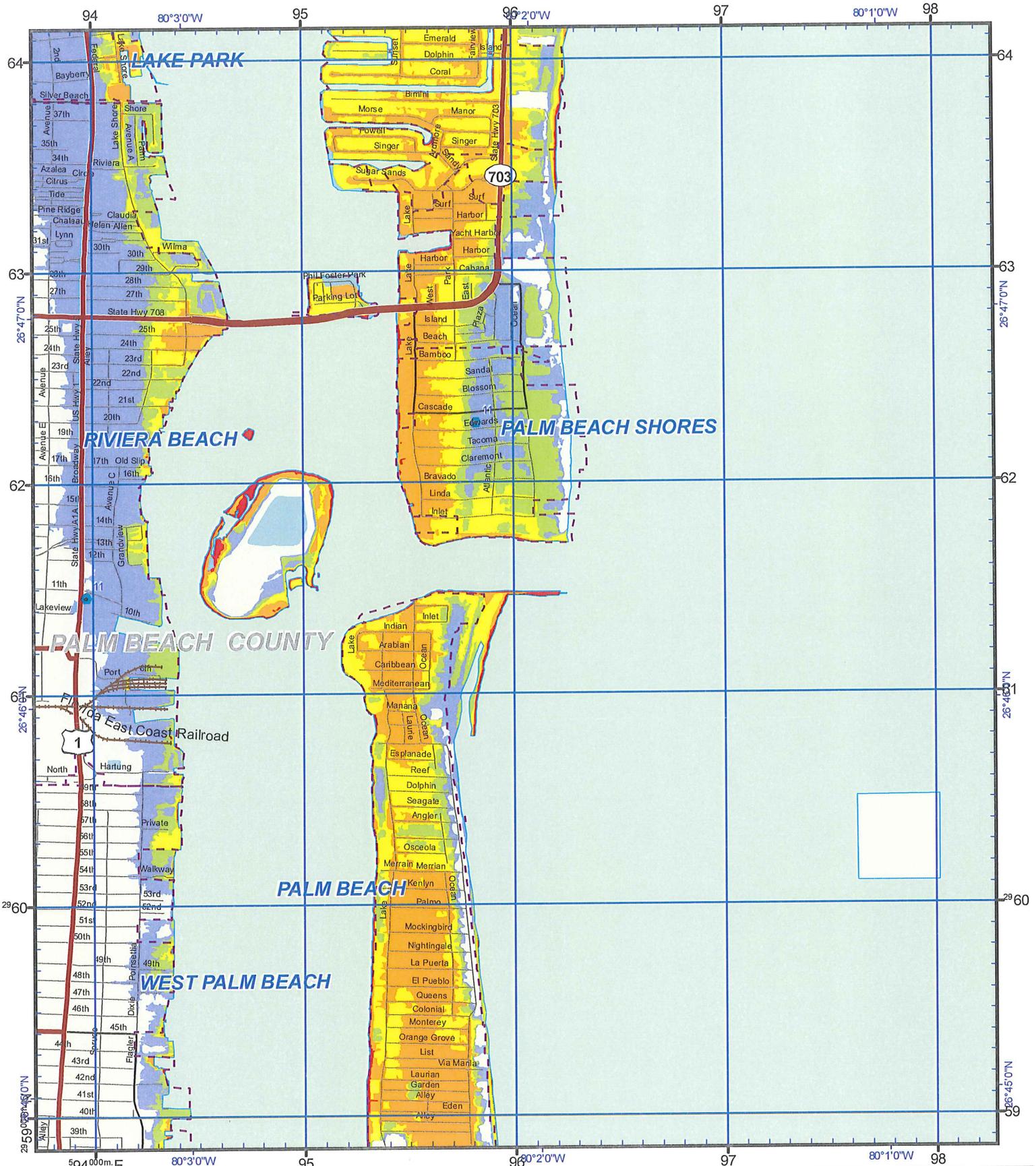
Scale - 1:24,000

0 2,000 Feet

USNG Page 17R NK 9363
Map Plate 17



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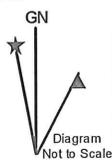
US National Grid
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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management implementation are local responsibilities.
Please consult with local authorities.

Produced by Treasure Coast Regional Planning Council for Florida Division of Emergency Management, 2009-2010



- Notes:
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 2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
 3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

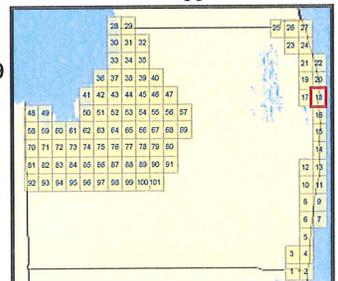
Storm Tide Zones
Palm Beach County, 2009

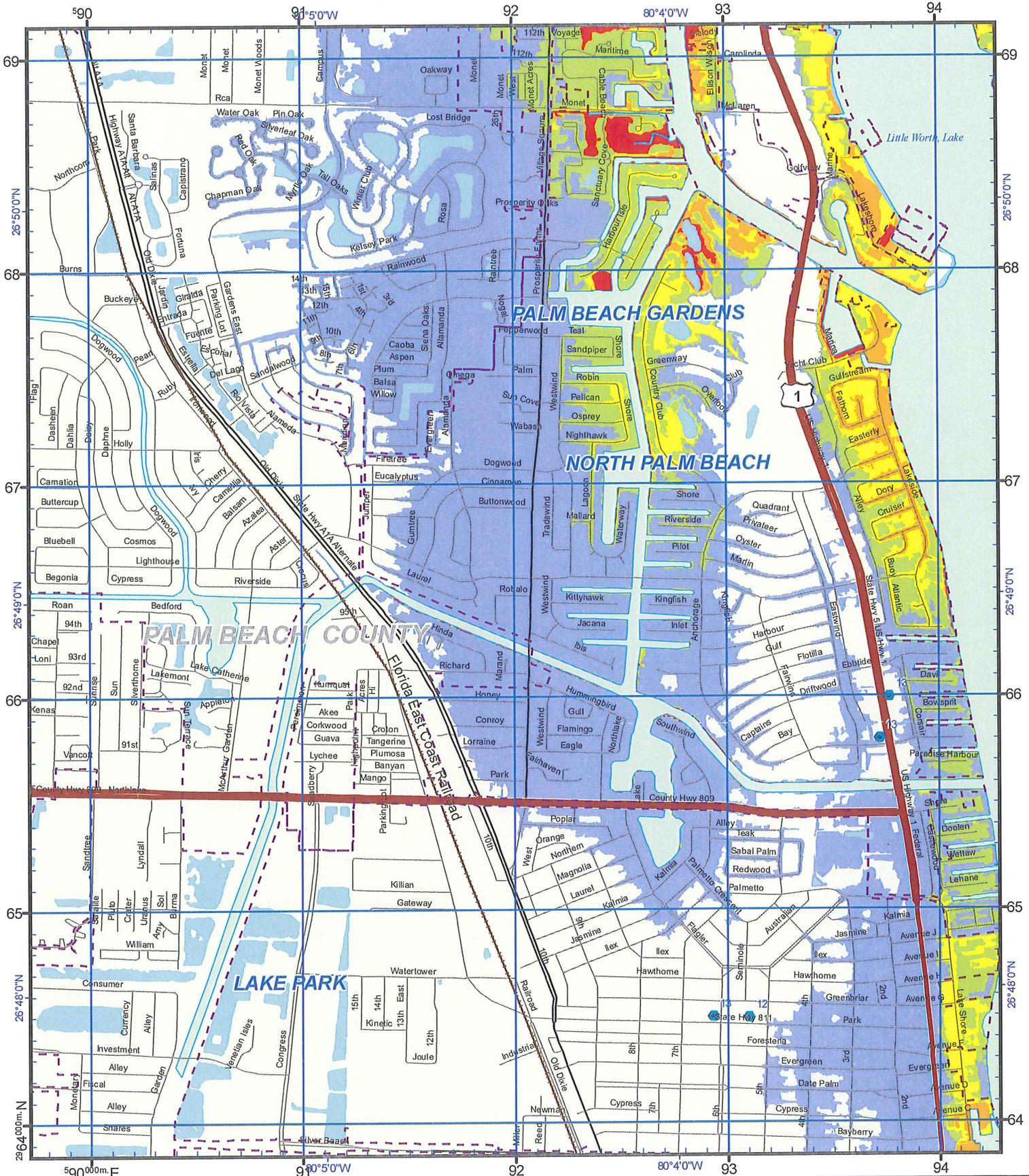
Scale - 1:24,000



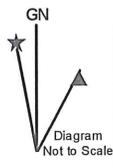
USNG Page 17R NK 9761

Map Plate 18





US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009



Notes:
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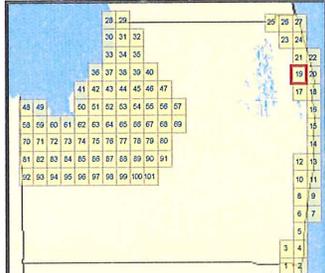
Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

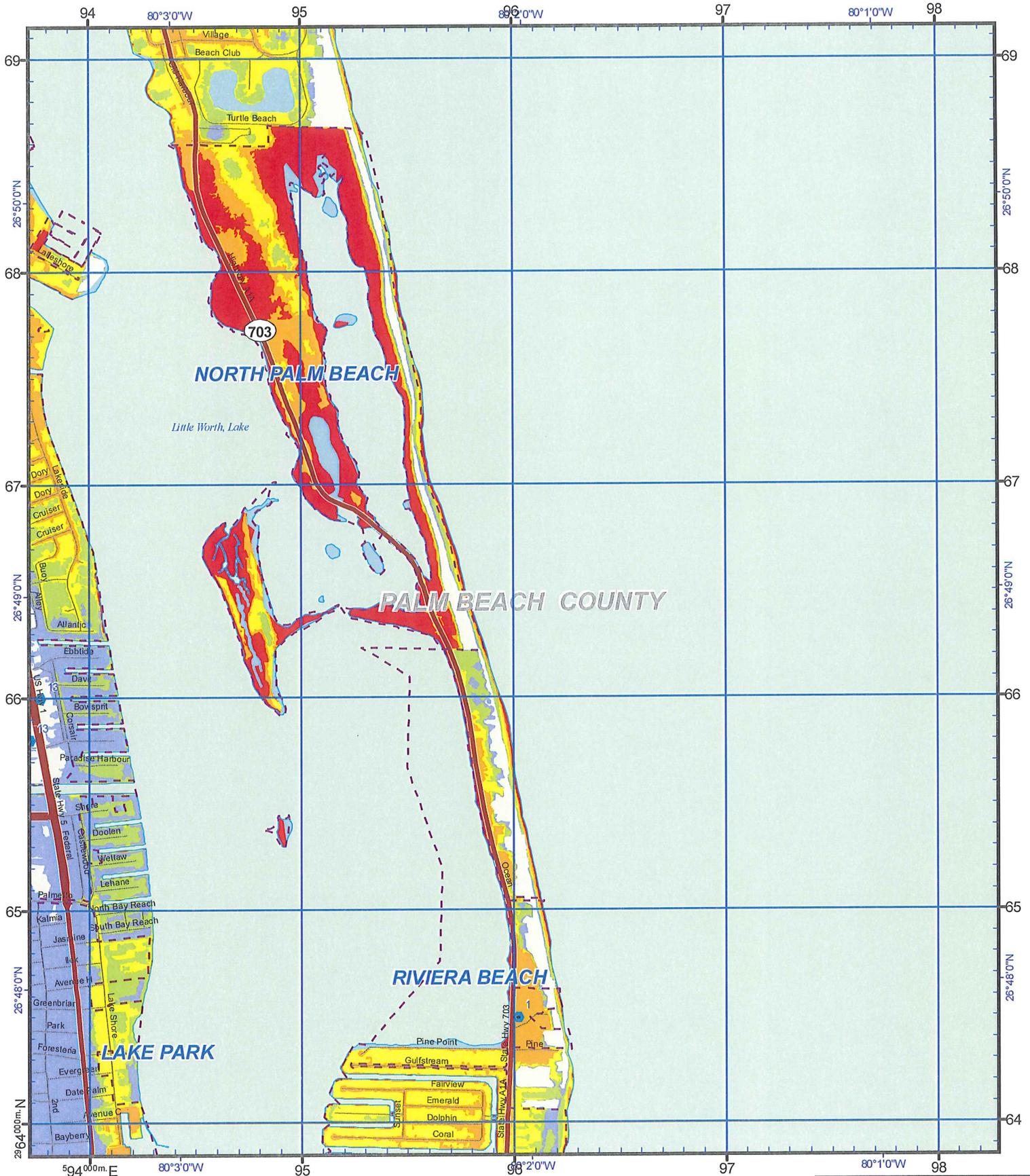
Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 9364
Map Plate 19



This map is for reference and planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.
Produced by Treasure Coast Regional Planning Council for Florida Division of Emergency Management, 2009-2010

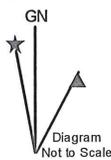


US National Grid
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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management implementation are local responsibilities.
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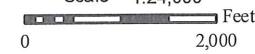
Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- Cat 1
- Cat 2
- Cat 3
- Cat 4
- Cat 5

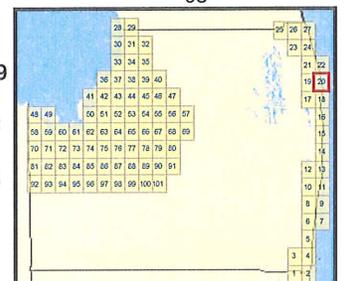
Storm Tide Zones
Palm Beach County, 2009

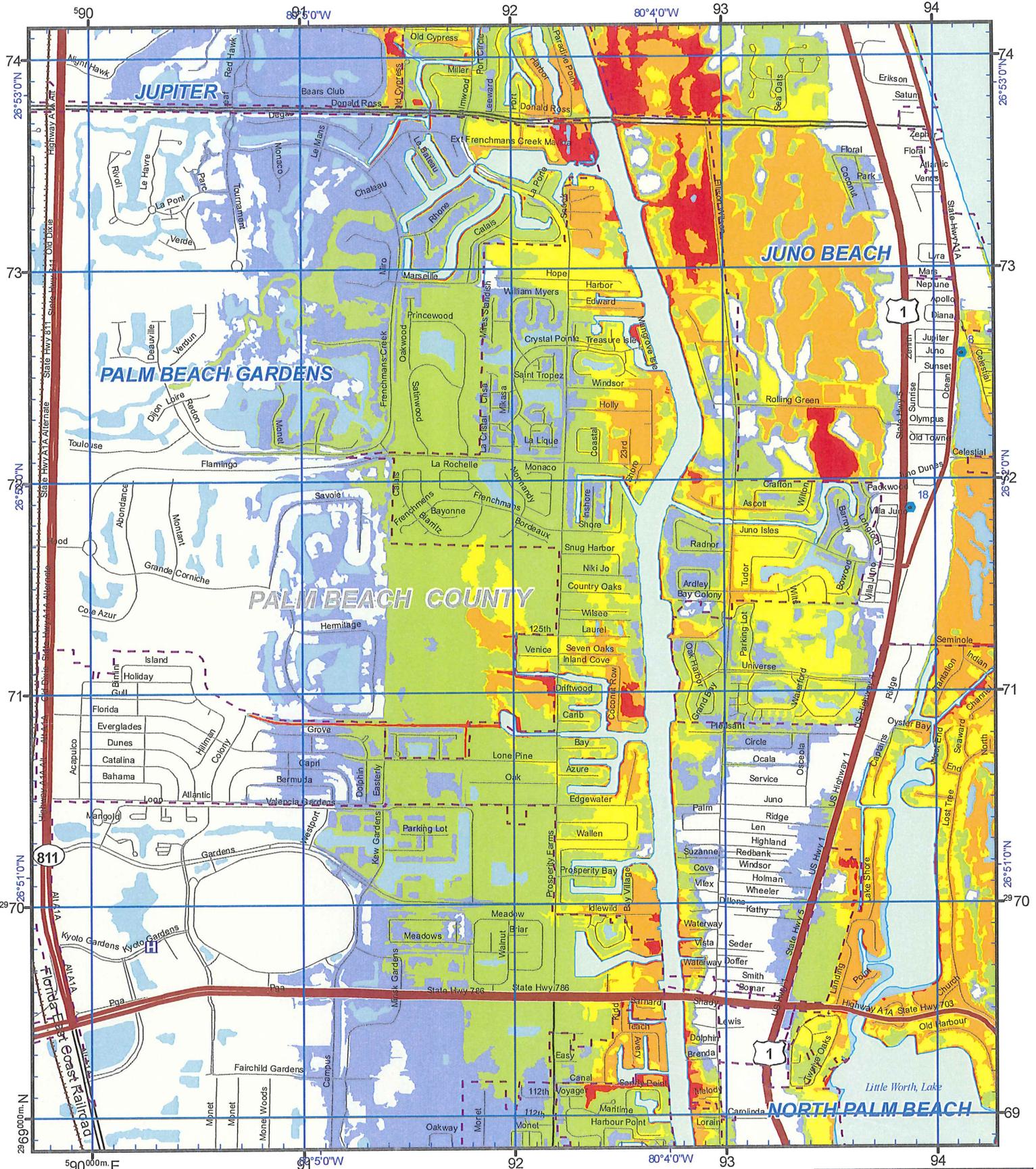
Scale - 1:24,000



USNG Page 17R NK 9764

Map Plate 20





US National Grid
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:
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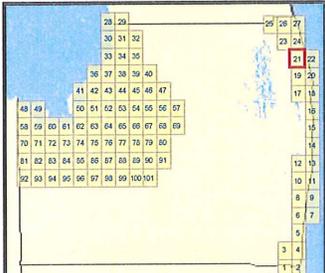
Legend

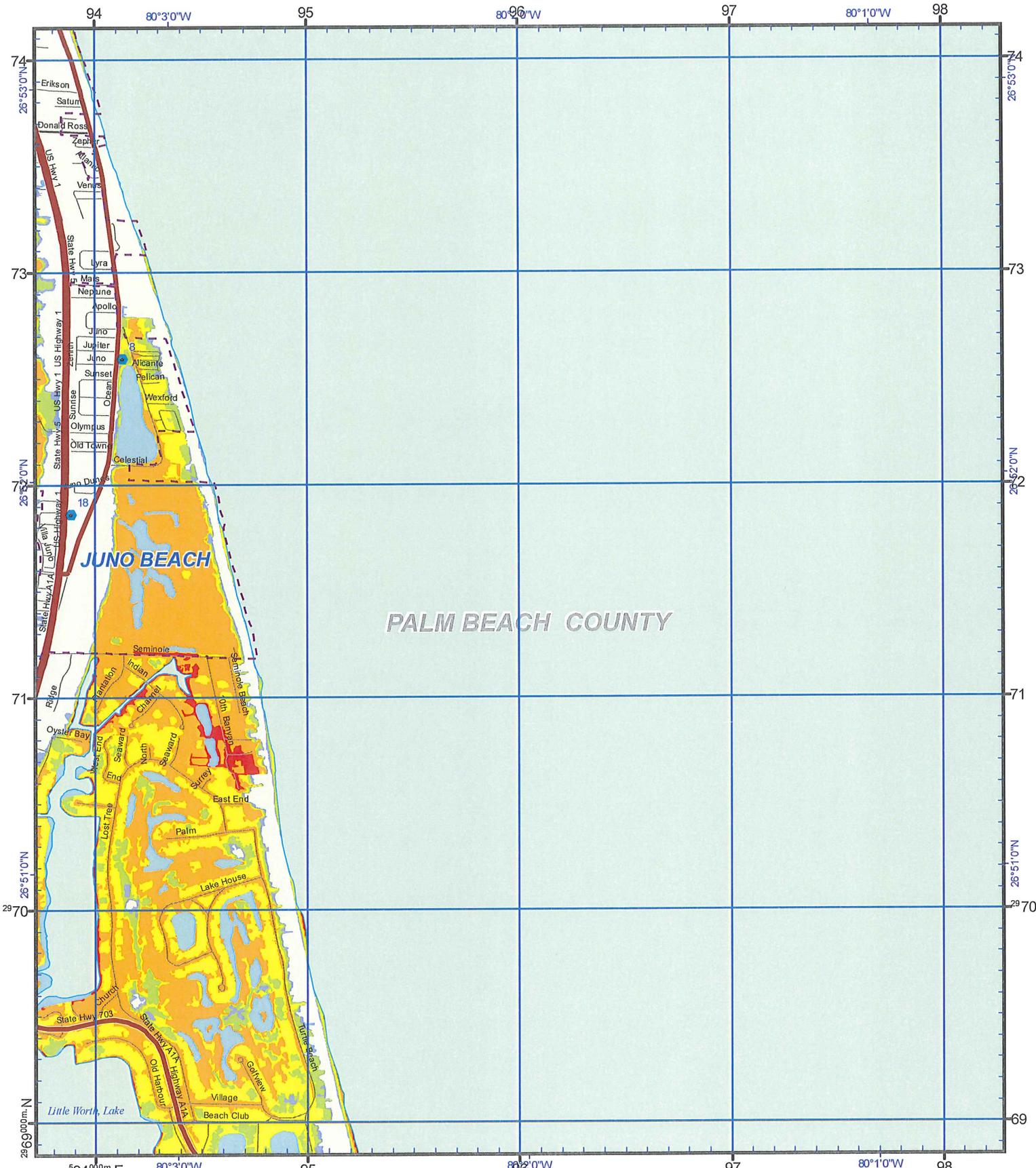
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 9370
Map Plate 21

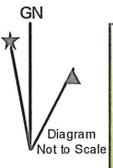




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

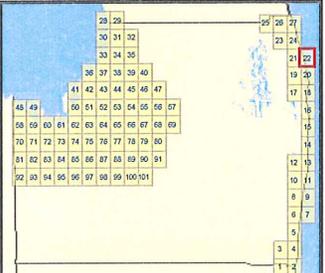
Cat

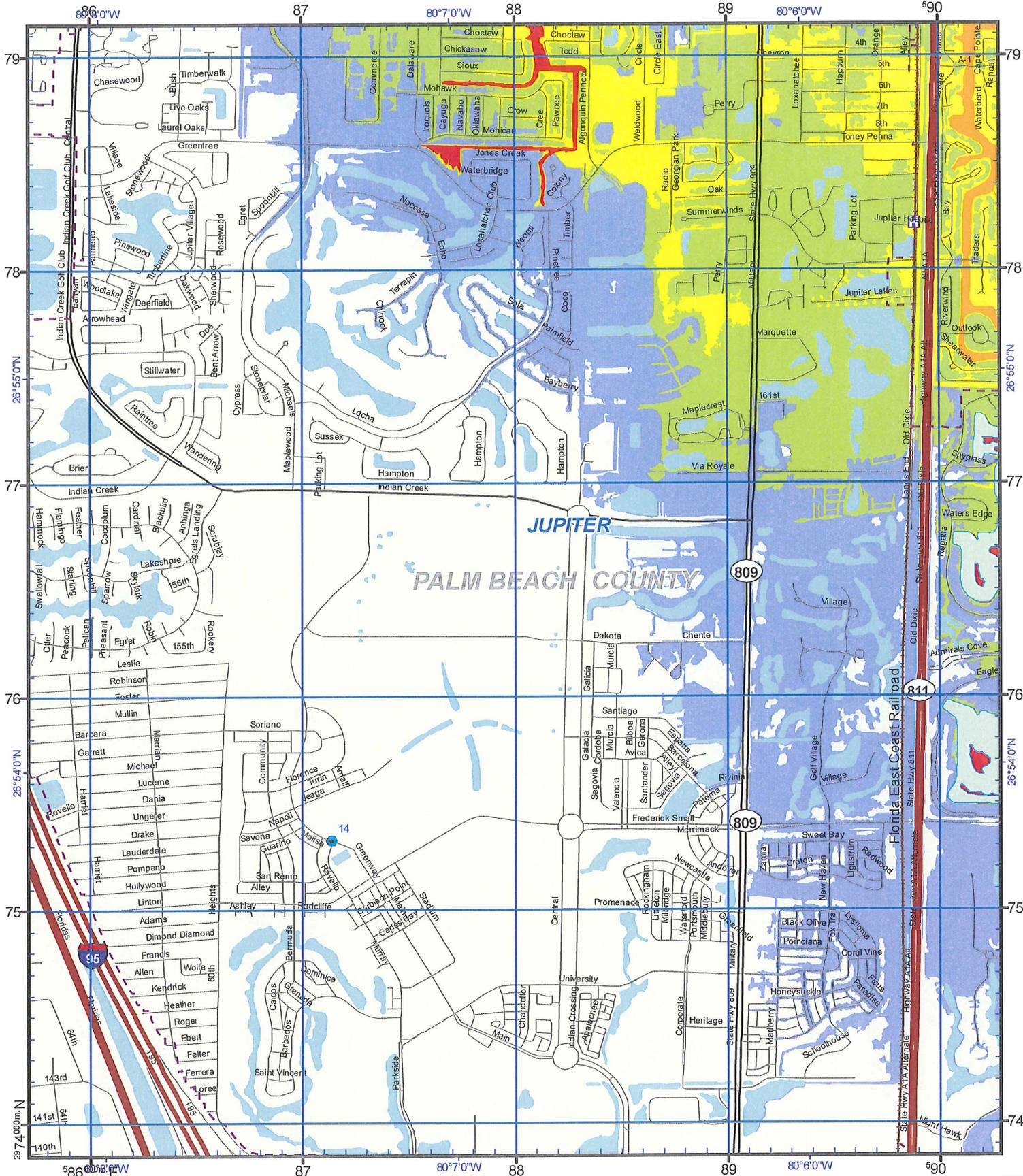
- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009

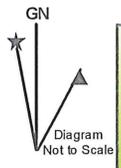
Scale - 1:24,000

USNG Page 17R NK 9773
Map Plate 22





US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009



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3. The Points of Reference are locations determined to be relevant to emergency management officials.

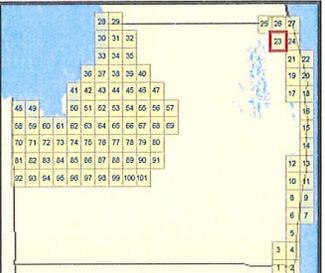
Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

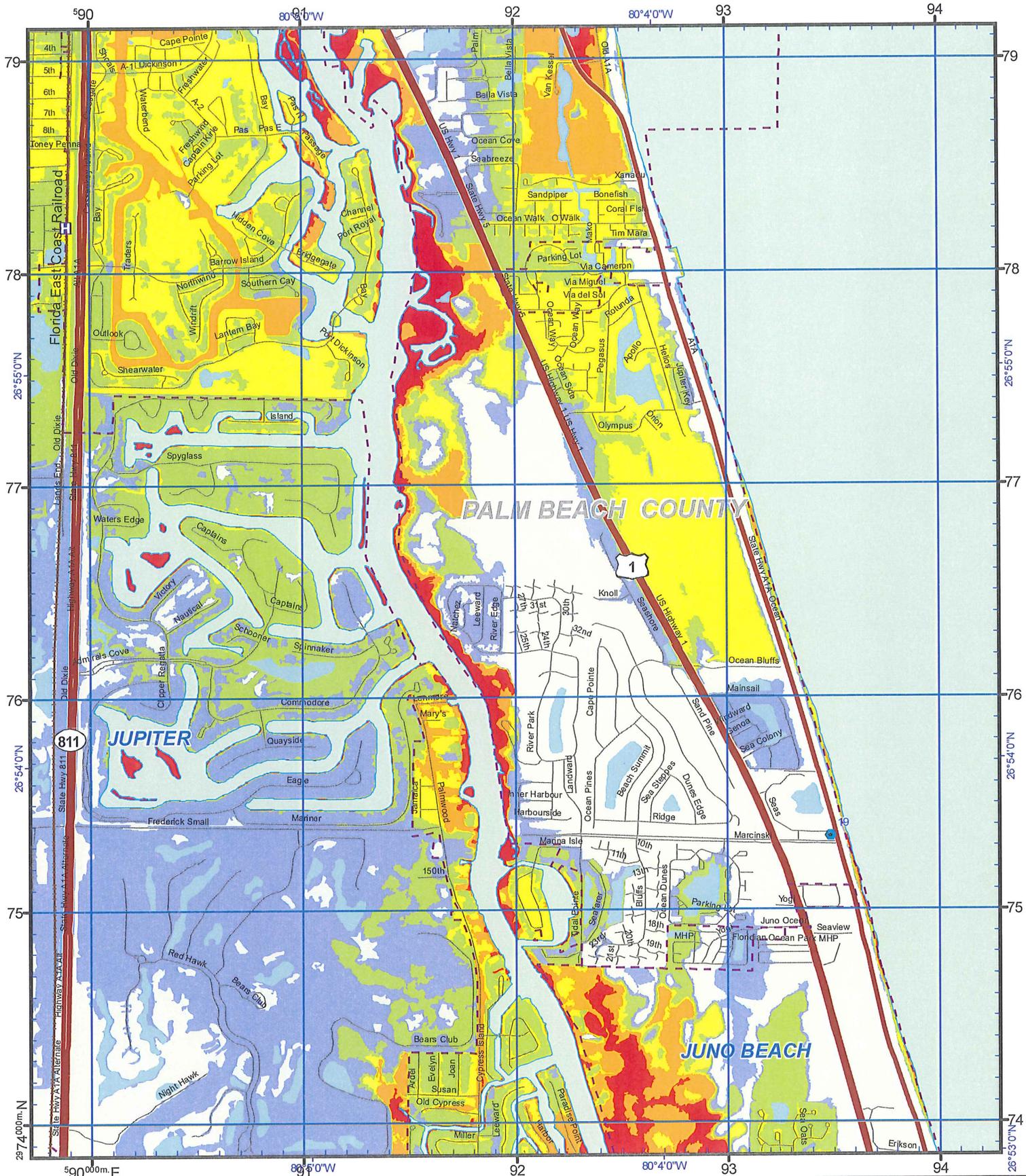
Cat

- 1
- 2
- 3
- 4
- 5

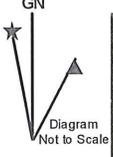
Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 8977
Map Plate 23



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



US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009



Notes:
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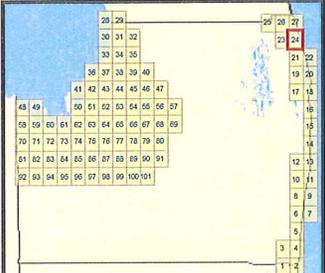
Legend

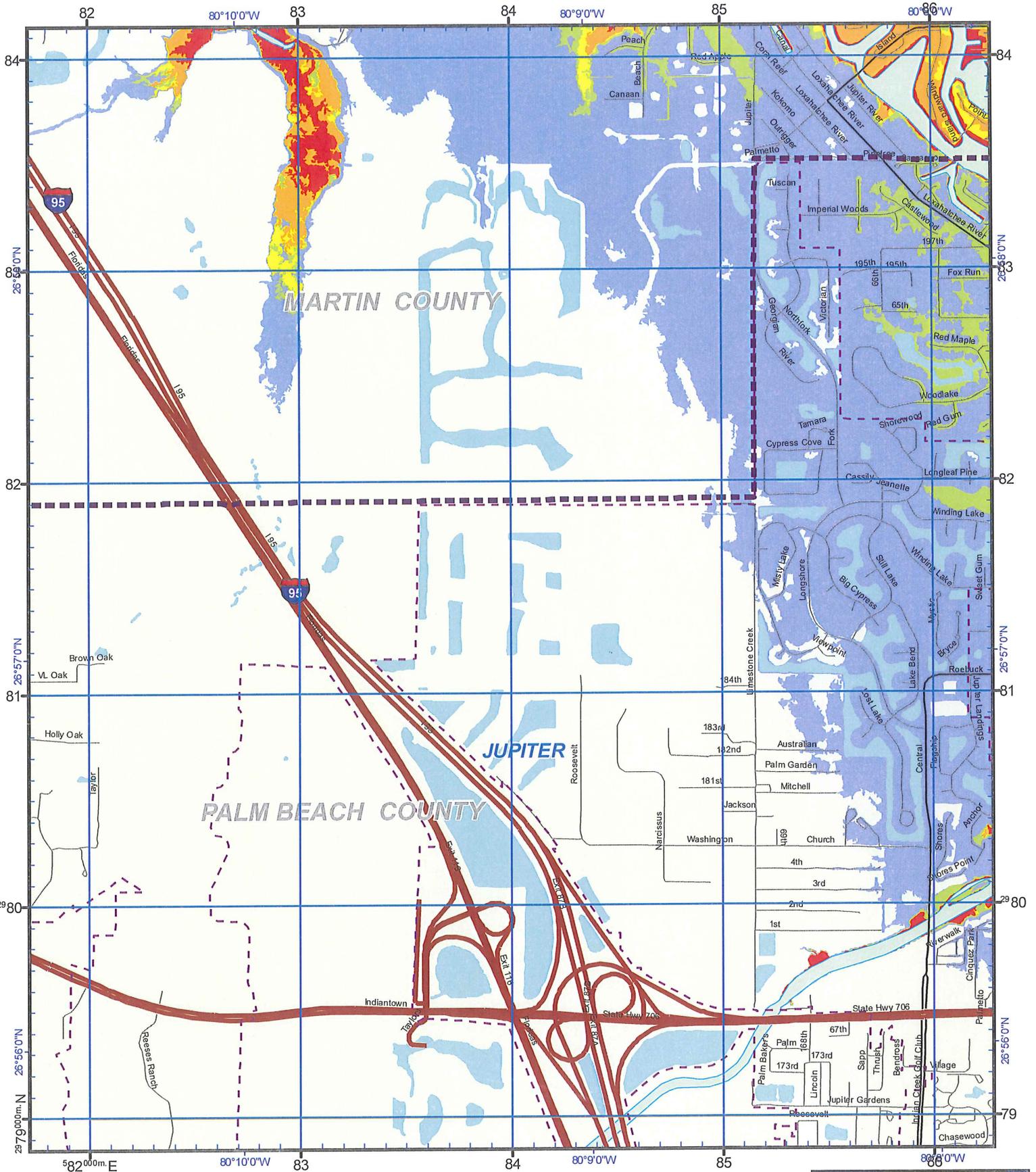
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 9377
Map Plate 24





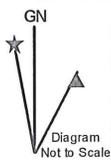
US National Grid

100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:

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3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- | | |
|--|-------|
| | Cat 1 |
| | Cat 2 |
| | Cat 3 |
| | Cat 4 |
| | Cat 5 |

Storm Tide Zones

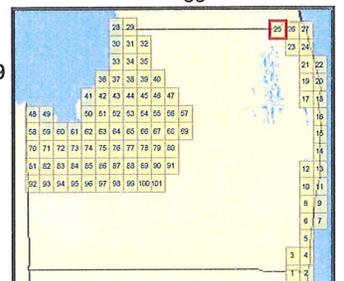
Palm Beach County, 2009

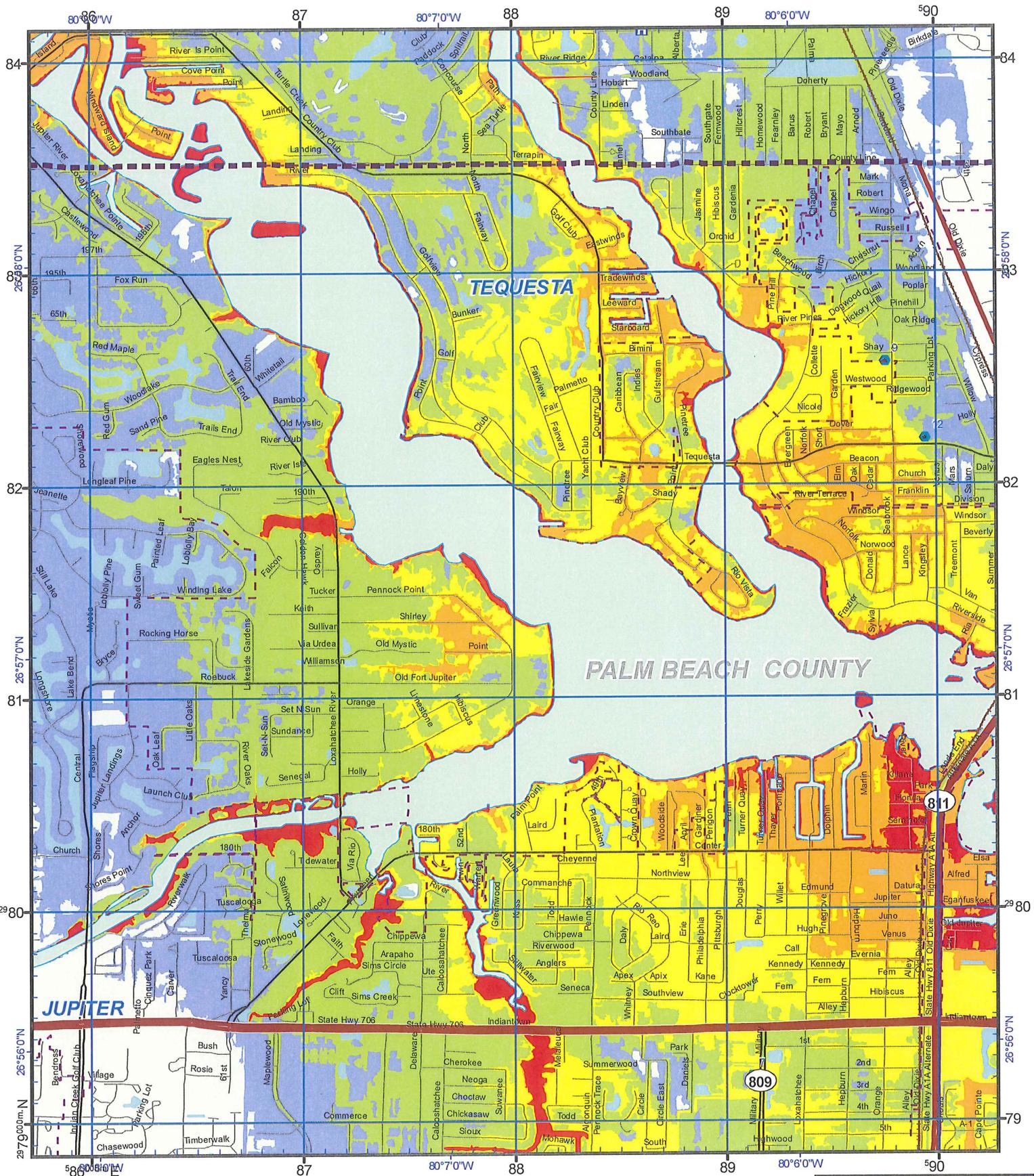
Scale - 1:24,000



USNG Page 17R NK 8581

Map Plate 25





US National Grid
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

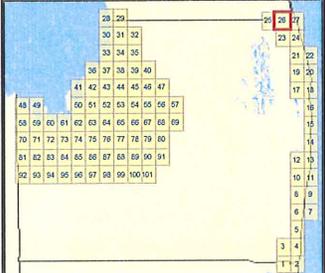
Cat

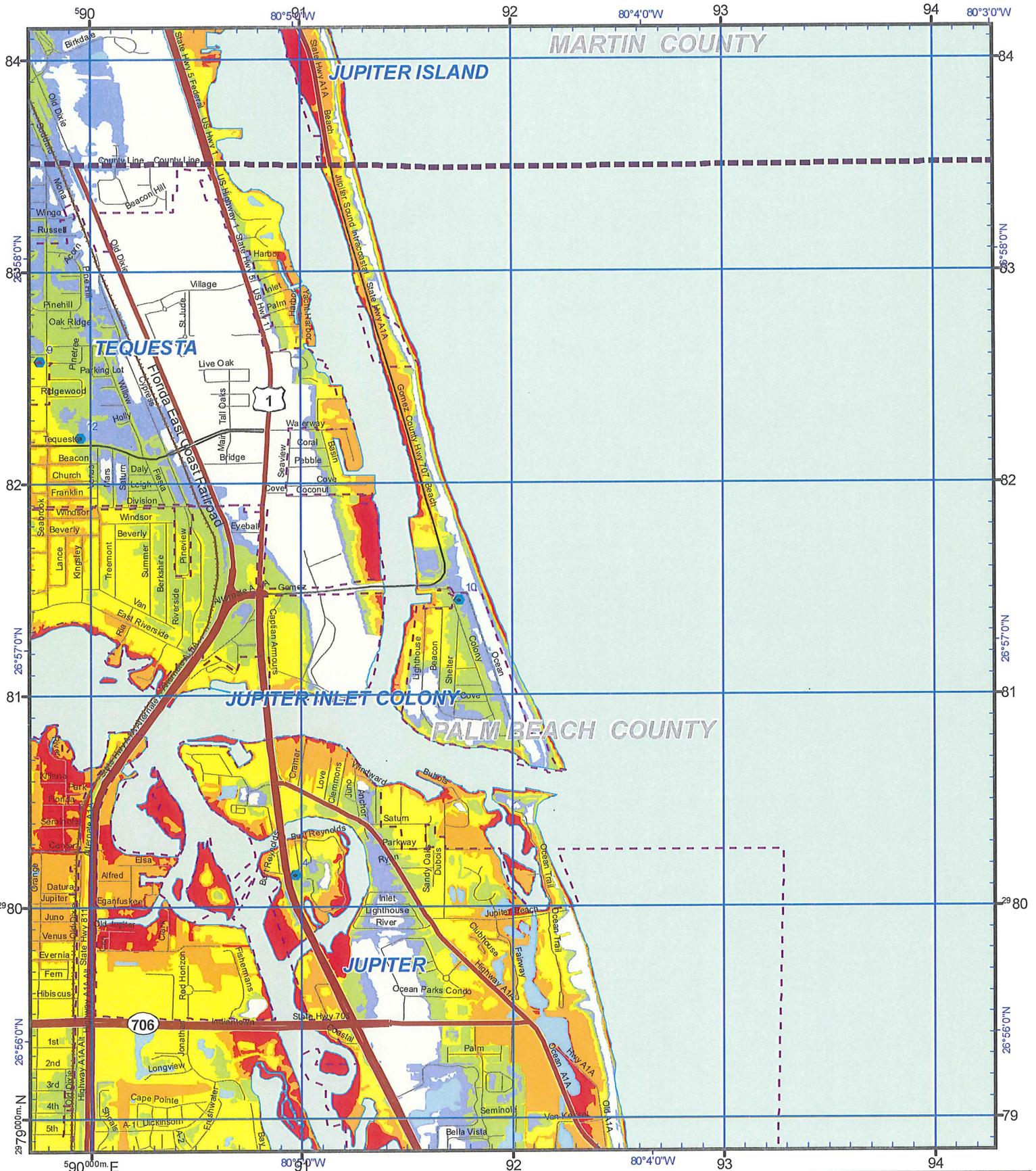
- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009

Scale - 1:24,000

USNG Page 17R NK 8981
Map Plate 26





US National Grid

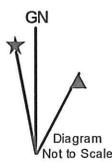
100,000-m Square ID
NK

Grid Zone Designation

17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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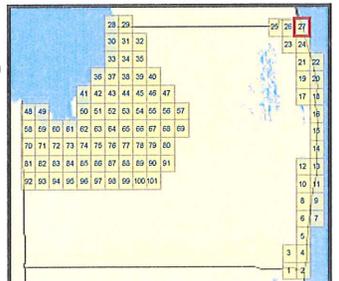
- Legend**
- Hospital
 - Points of Reference
 - Evacuation Route
 - City Limits
 - Lakes
 - Major Water

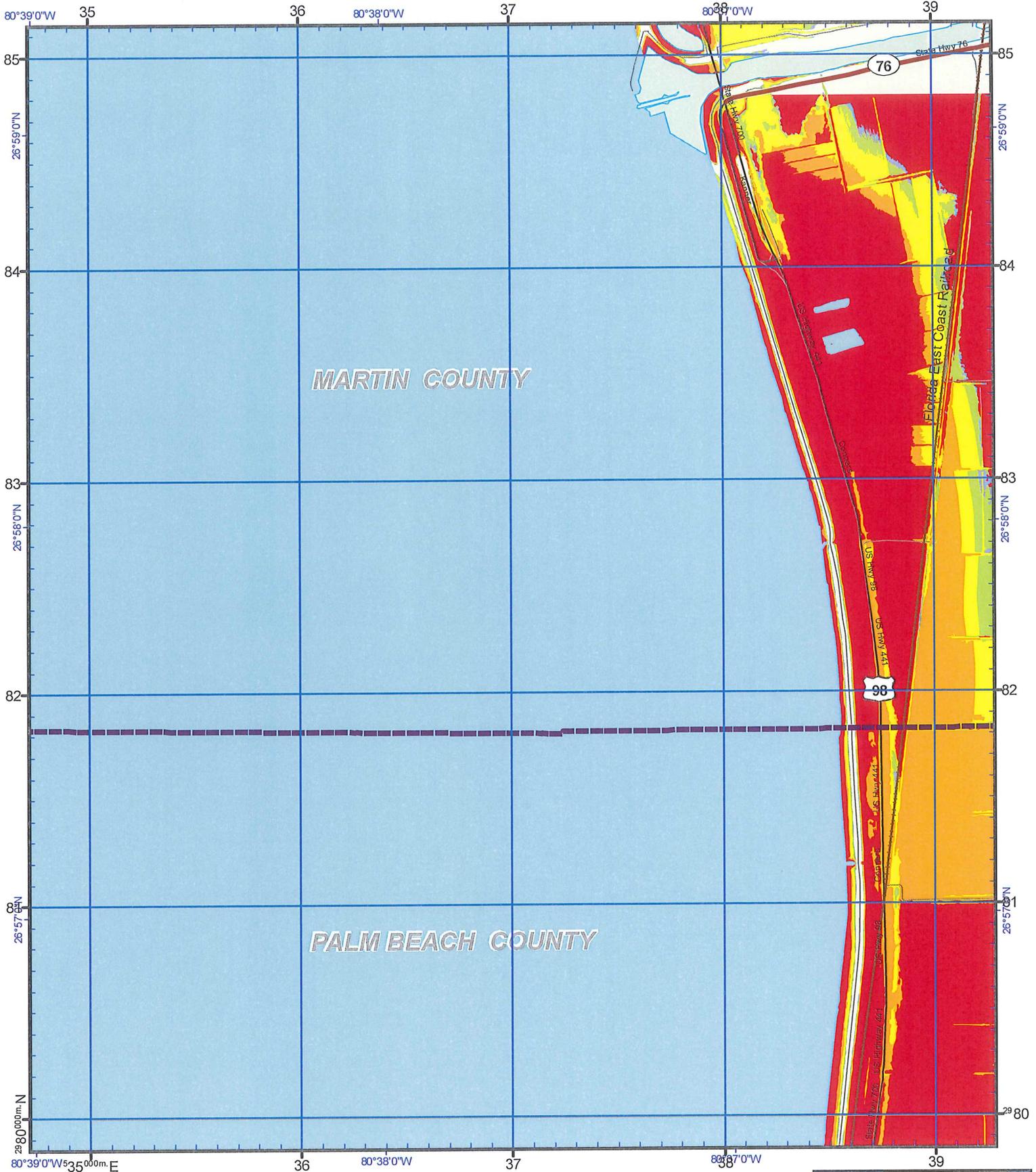
- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

Storm Tide Zones
Palm Beach County, 2009

Scale - 1:24,000

USNG Page 17R NK 9381
Map Plate 27





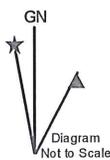
US National Grid
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Produced by Treasure Coast Regional Planning Council for Florida Division of Emergency Management, 2009-2010



Notes:
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3. The Points of Reference are locations determined to be relevant to emergency management officials.

- Legend**
- Hospital
 - Points of Reference
 - Evacuation Route
 - City Limits
 - Lakes
 - Major Water

- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

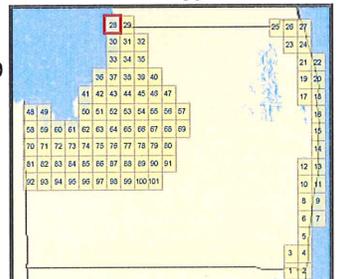
**Storm Tide Zones
Palm Beach County, 2009**

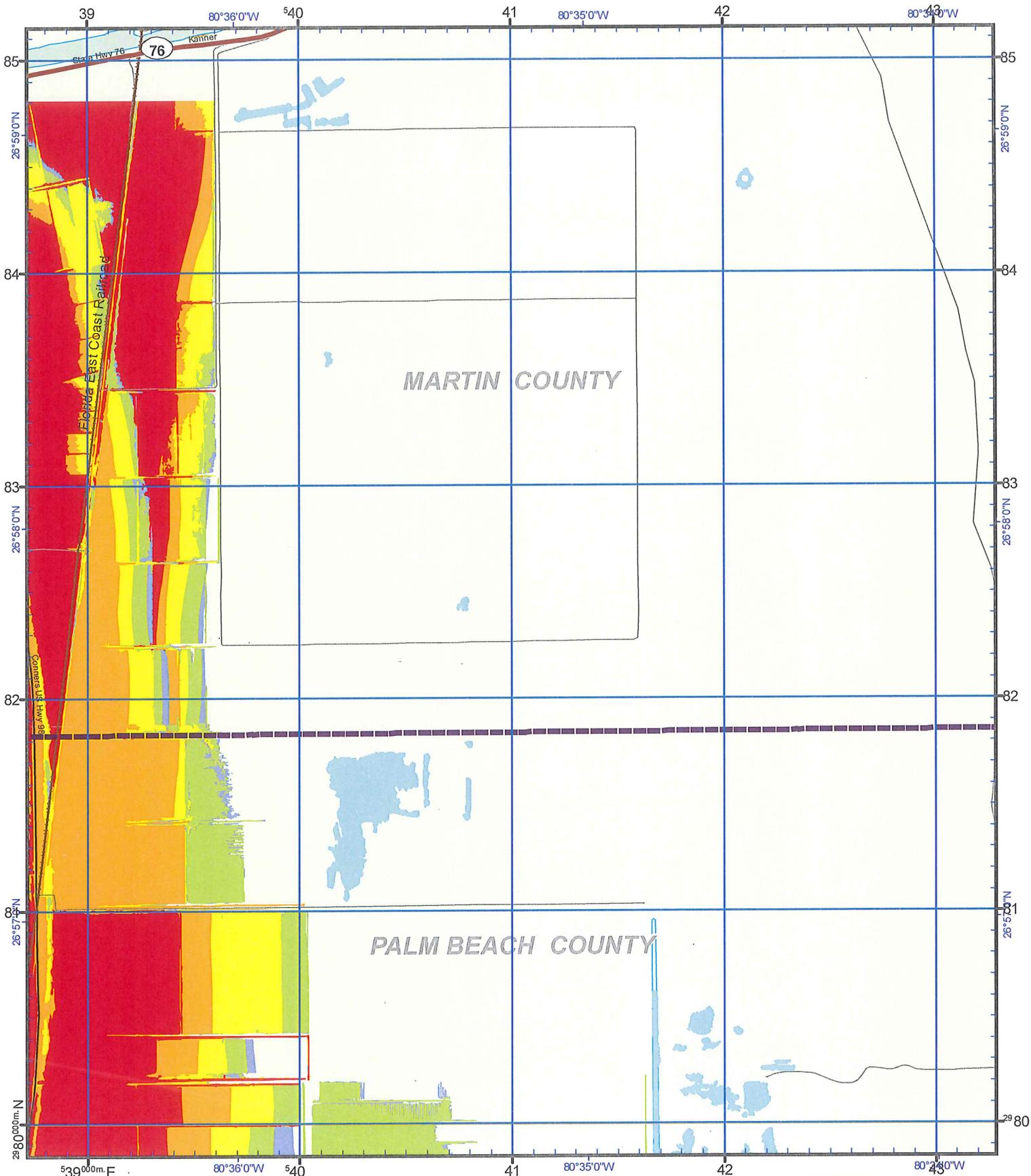
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USNG Page 17R NK 3880

Map Plate 28

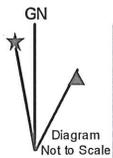




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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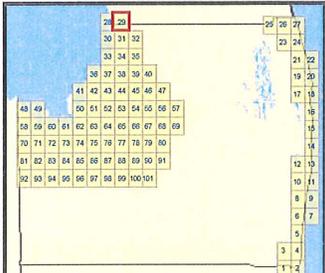


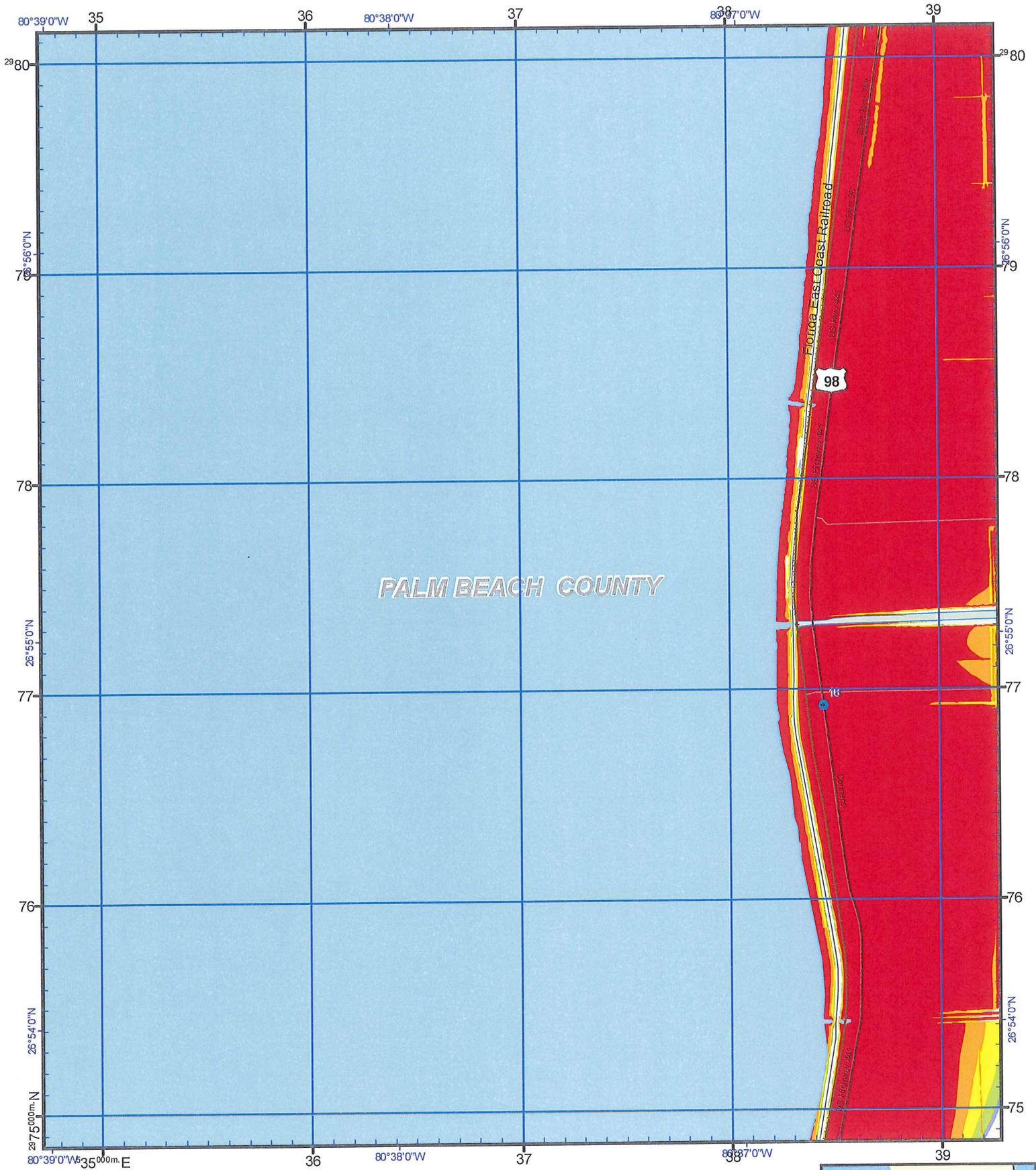
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Legend

Hospital	Points of Reference	Evacuation Route	City Limits	Lakes	Major Water
Cat 1	Cat 2	Cat 3	Cat 4	Cat 5	

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 4281
Map Plate 29

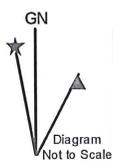




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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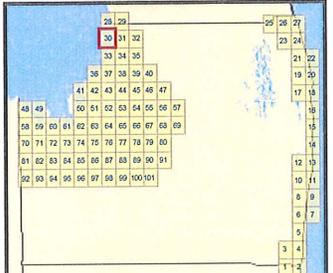
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
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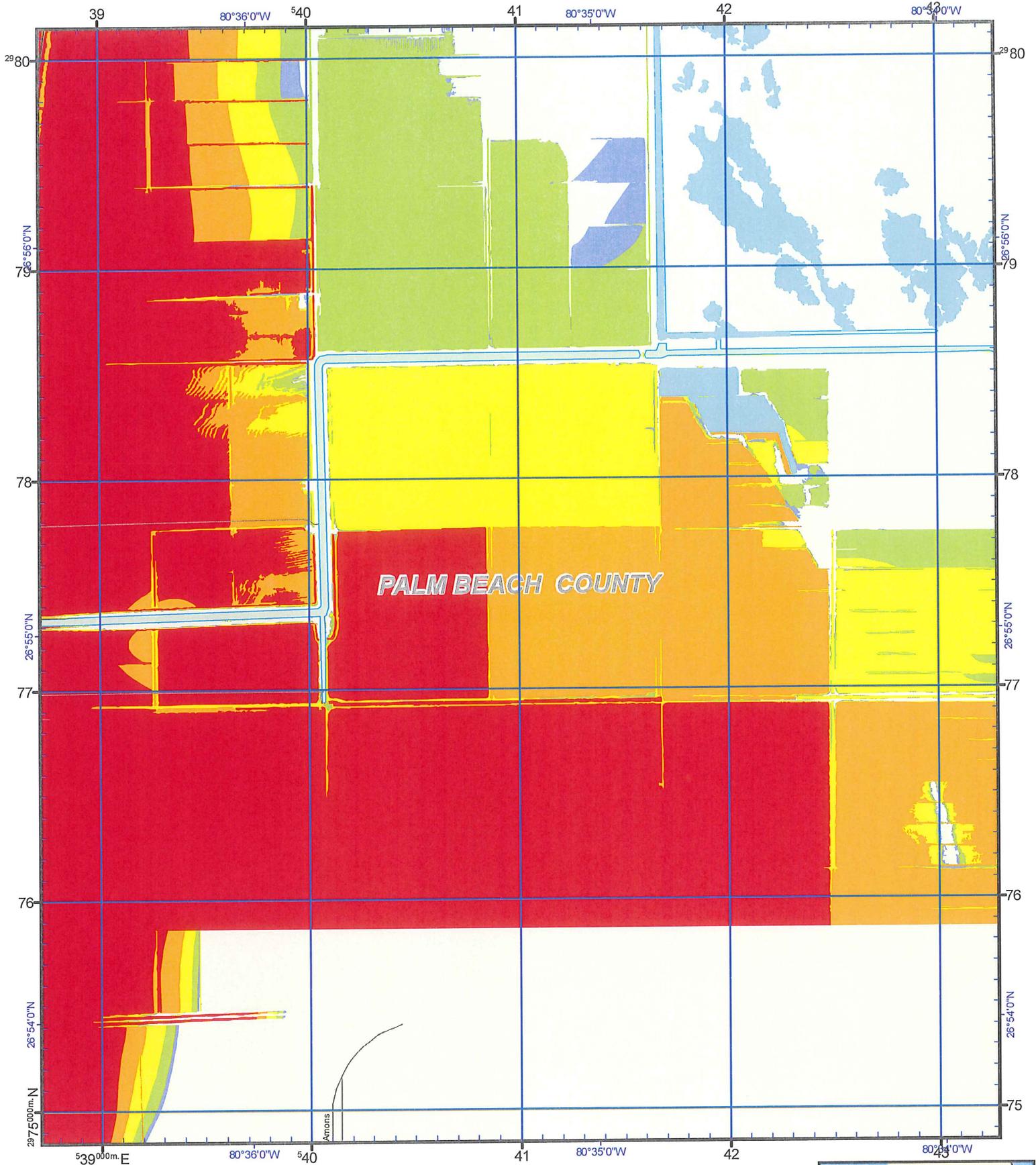
Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

	Cat 1
	Cat 2
	Cat 3
	Cat 4
	Cat 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 3876
Map Plate 30



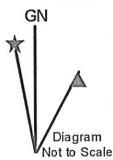


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

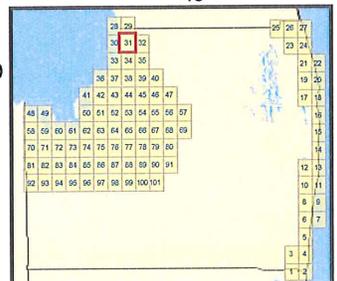
Storm Tide Zones
Palm Beach County, 2009

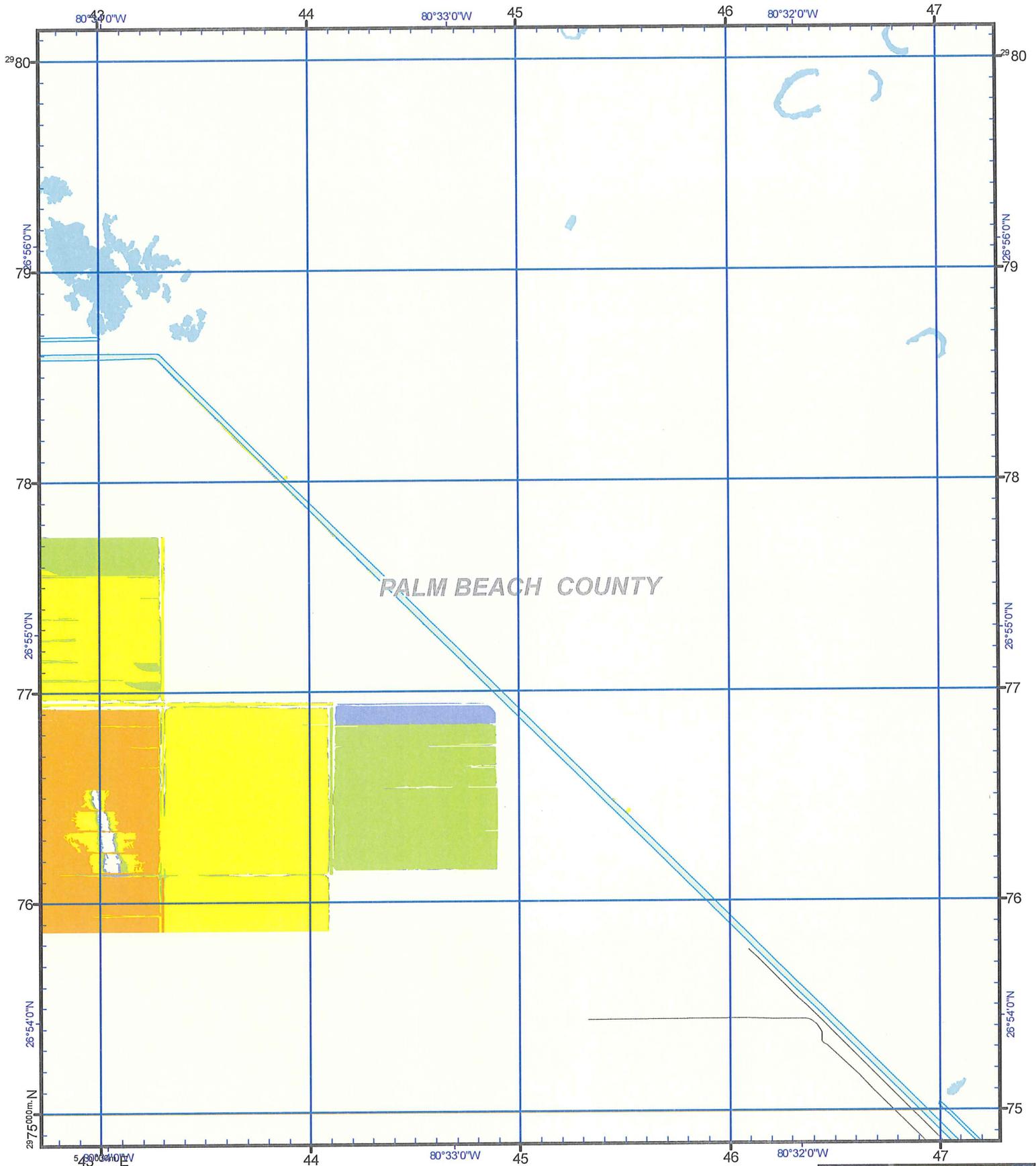
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USNG Page 17R NK 4076

Map Plate 31



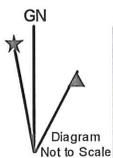


PALM BEACH COUNTY

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

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Legend

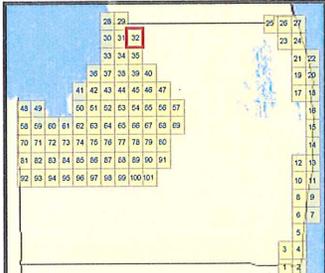
Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

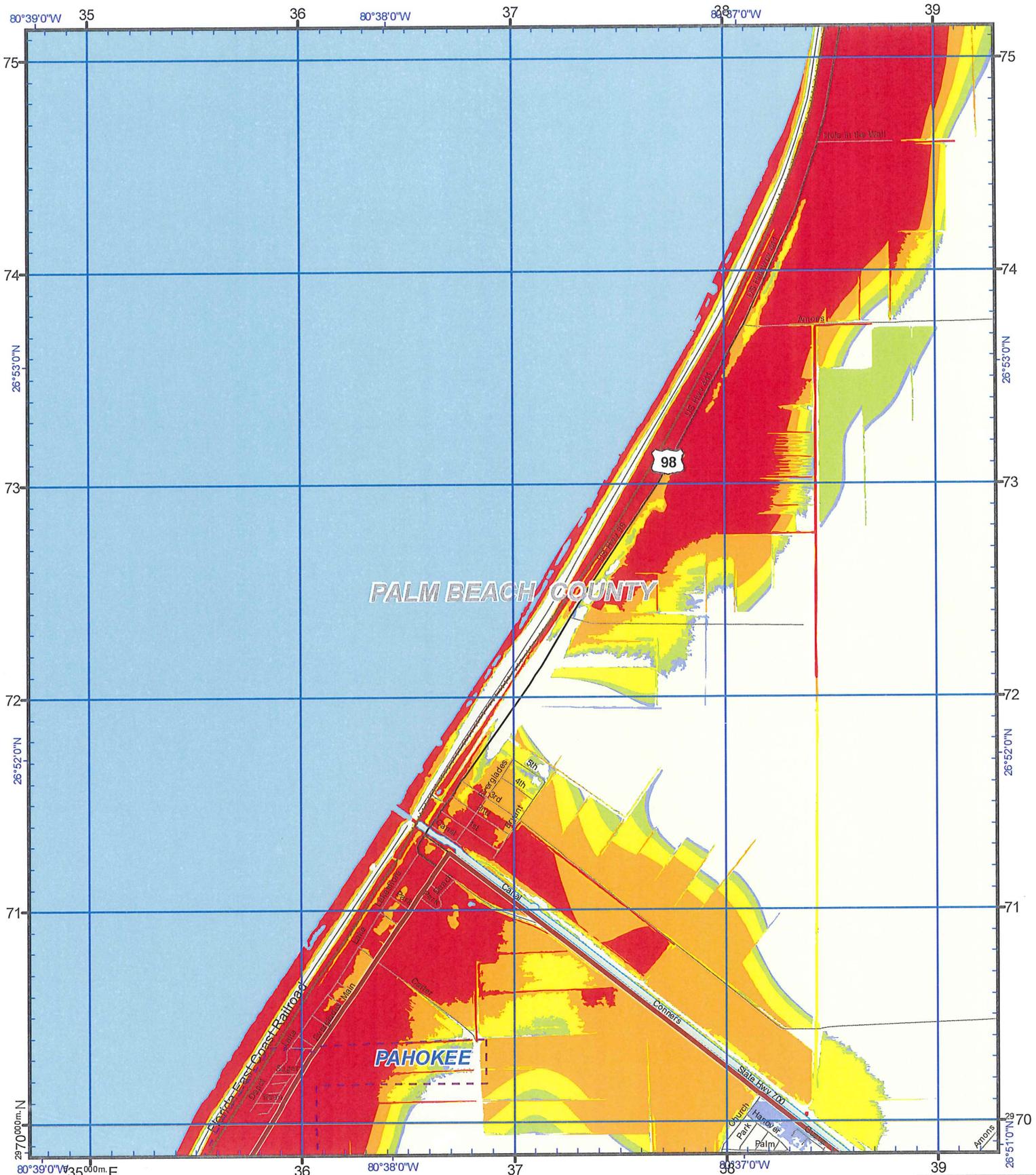
Storm Tide Zones
Palm Beach County, 2009

Scale - 1:24,000

0 2,000 Feet

USNG Page 17R NK 4675
Map Plate 32

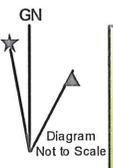




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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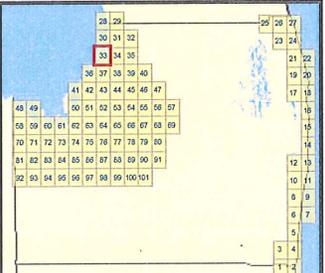
Legend

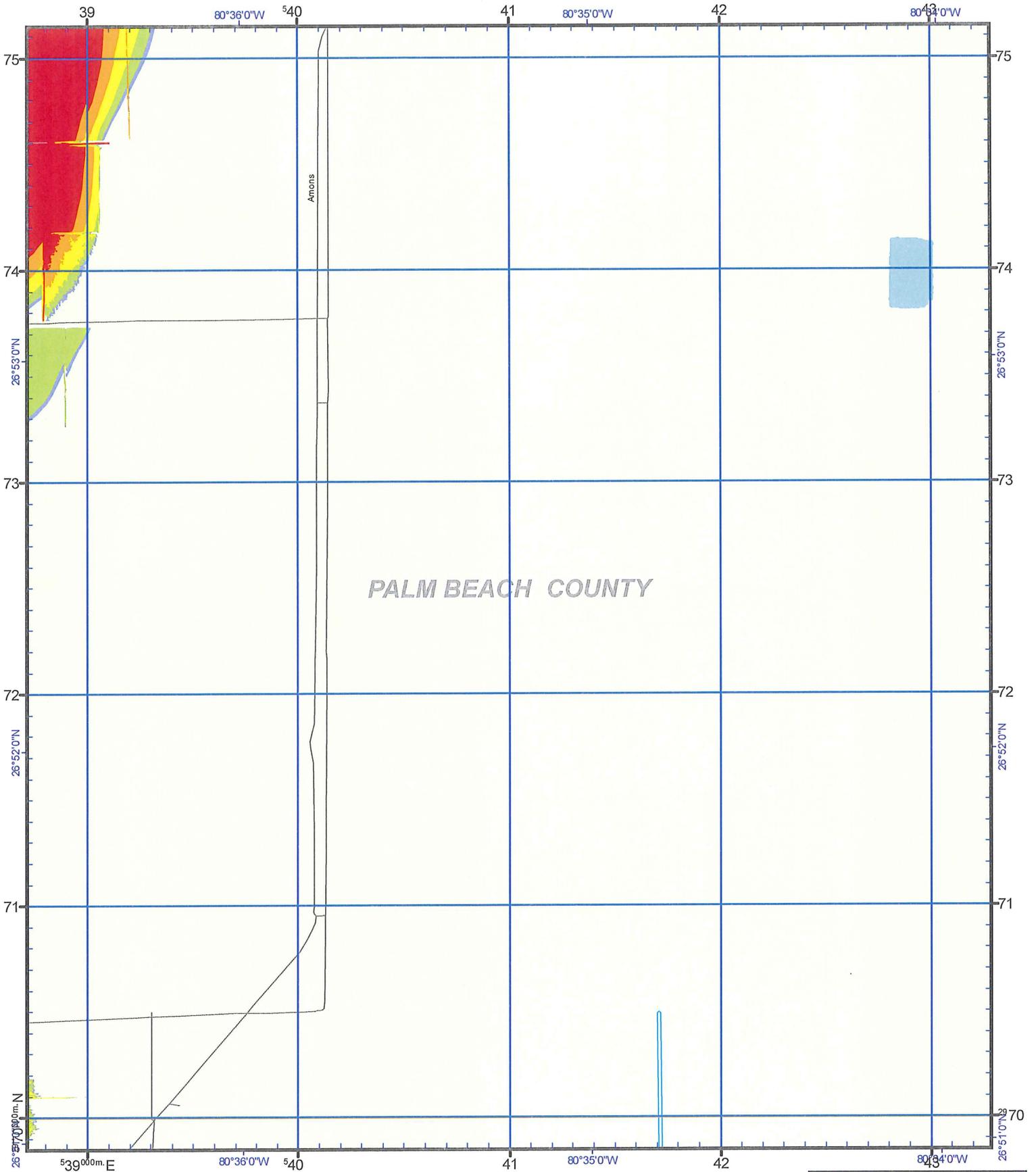
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 3872
Map Plate 33

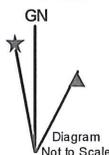




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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

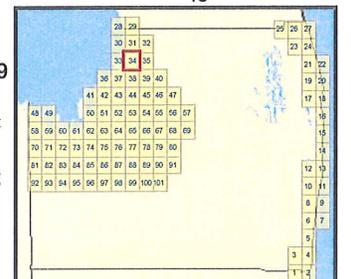


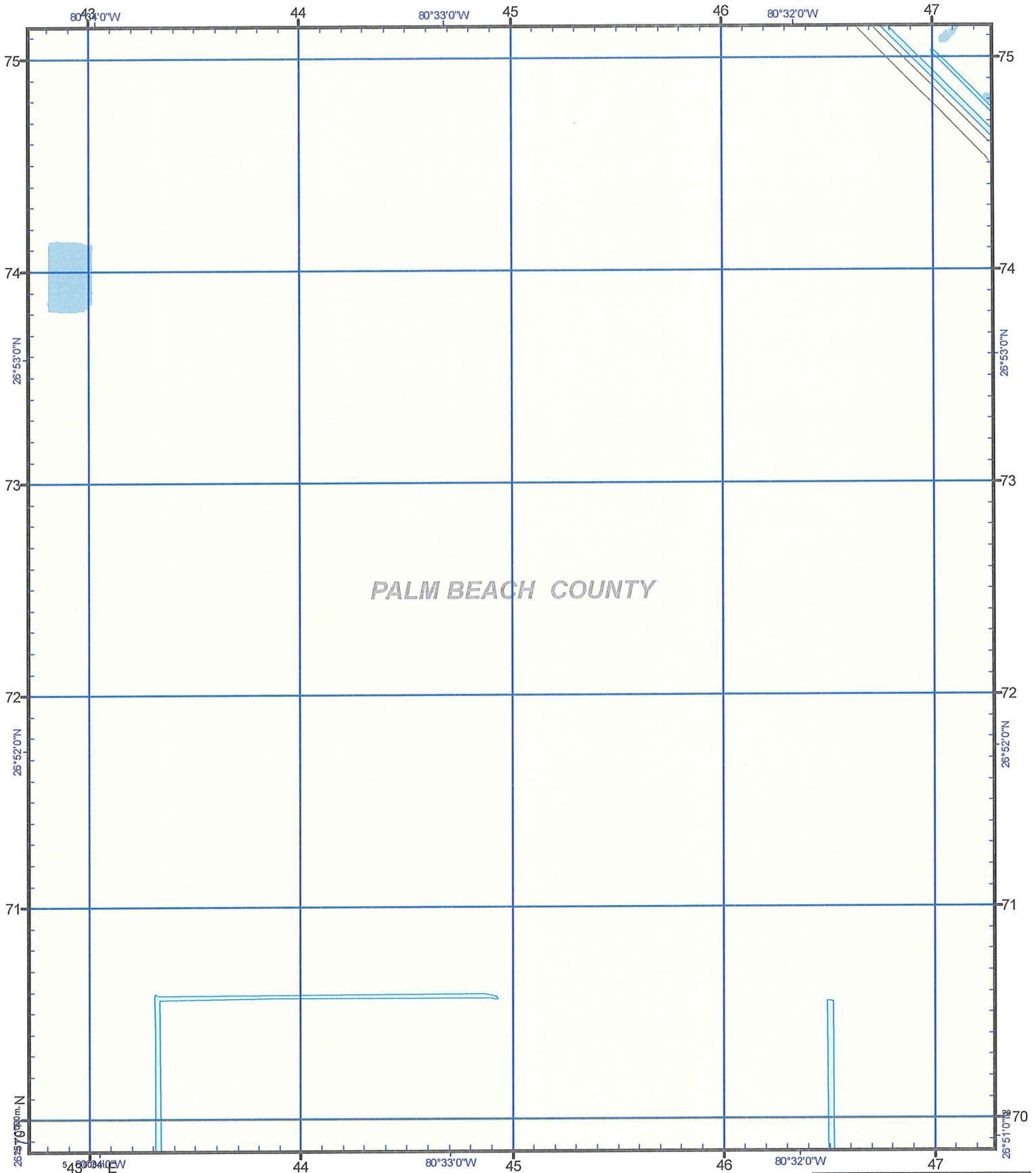
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant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

- Legend**
- Hospital
 - Points of Reference
 - Evacuation Route
 - City Limits
 - Lakes
 - Major Water

- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 4272
Map Plate 34



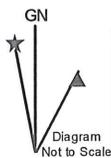


PALM BEACH COUNTY

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

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:

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2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

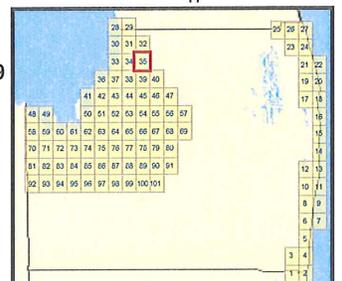
- Hospital
 - Points of Reference
 - Evacuation Route
 - City Limits
 - Lakes
 - Major Water
- | | | |
|--|-----|---|
| | Cat | 1 |
| | | 2 |
| | | 3 |
| | | 4 |
| | | 5 |

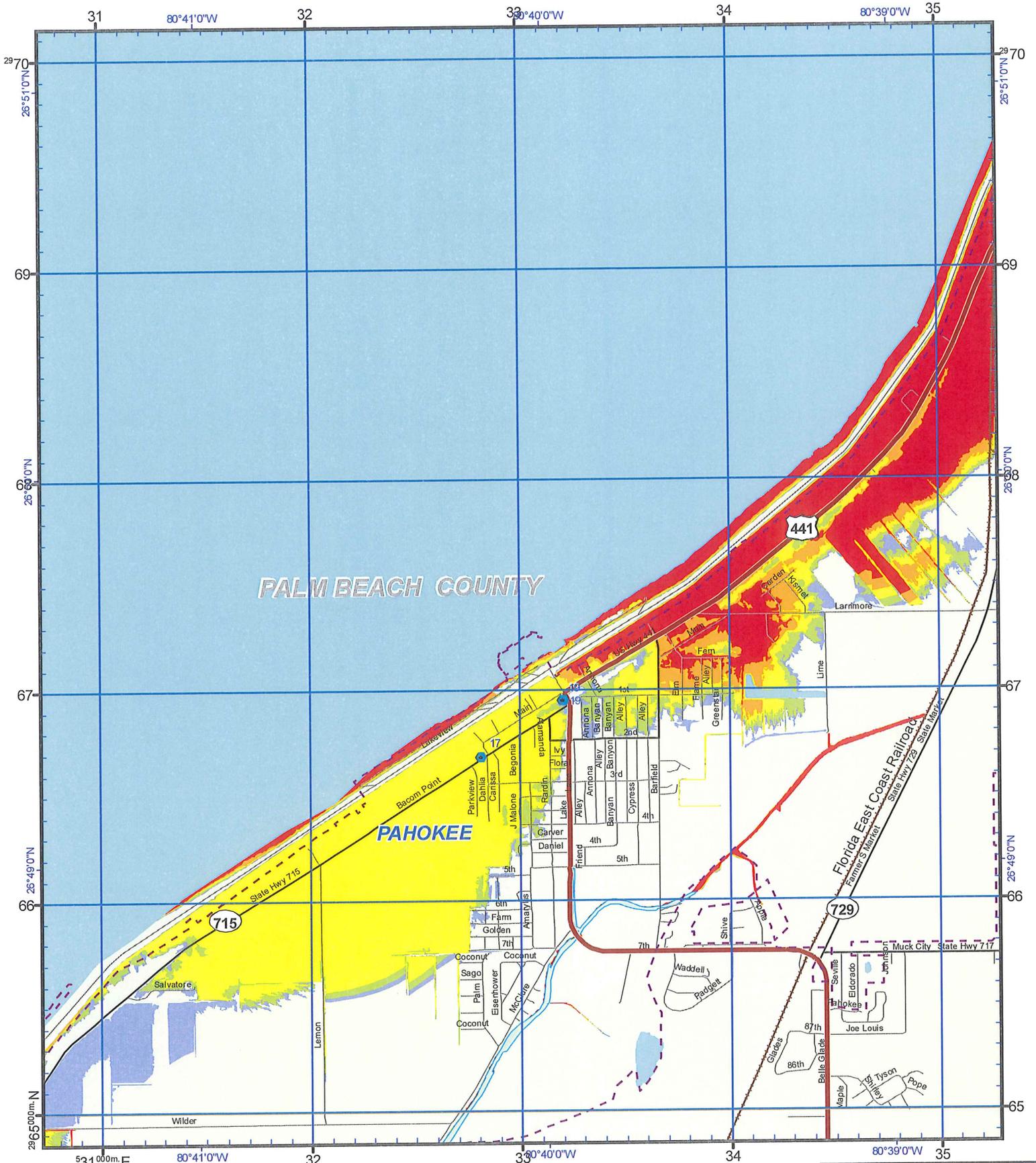
Storm Tide Zones
Palm Beach County, 2009

Scale - 1:24,000
0 2,000 Feet

USNG Page 17R NK 4672

Map Plate 35



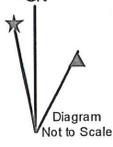


US National Grid
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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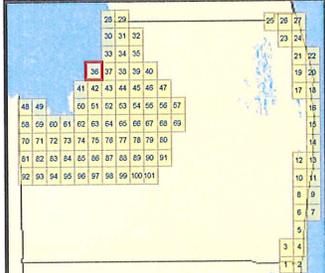


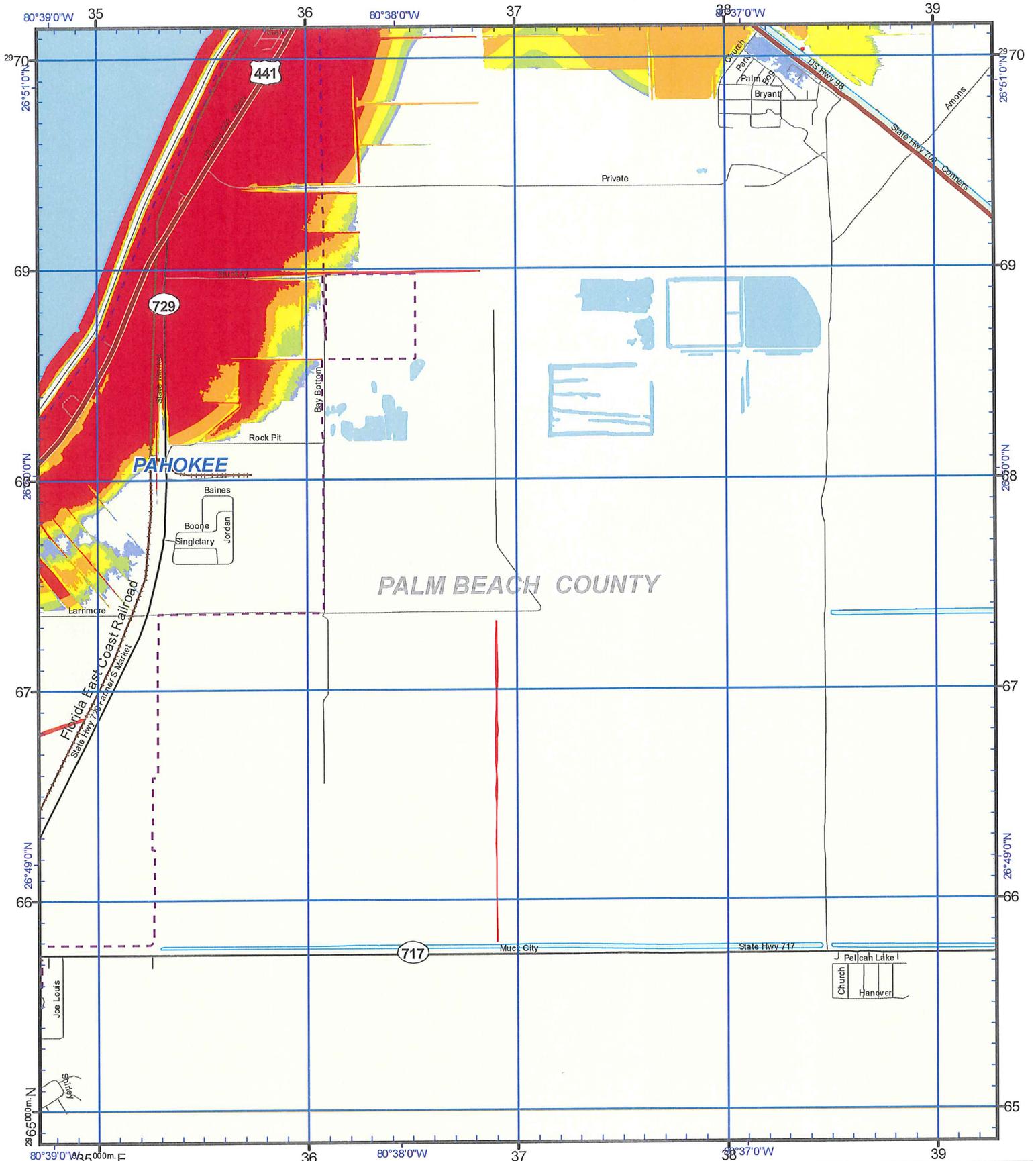
- Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
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 3. The Points of Reference are locations determined to be relevant to emergency management officials.

- Legend**
- Hospital
 - Points of Reference
 - Evacuation Route
 - City Limits
 - Lakes
 - Major Water

- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 3467
Map Plate 36





US National Grid

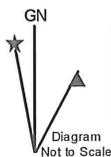
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Hurricane evacuation decision-making and growth
management implementation are local responsibilities.
Please consult with local authorities.

Produced by Treasure Coast Regional Planning Council for Florida Division of Emergency Management, 2009-2010



Notes:

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3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- Cat 1
- Cat 2
- Cat 3
- Cat 4
- Cat 5

Storm Tide Zones

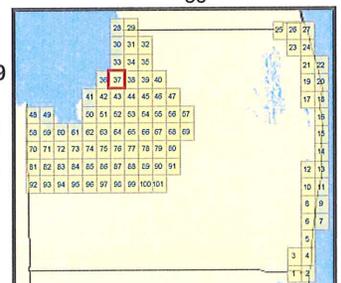
Palm Beach County, 2009

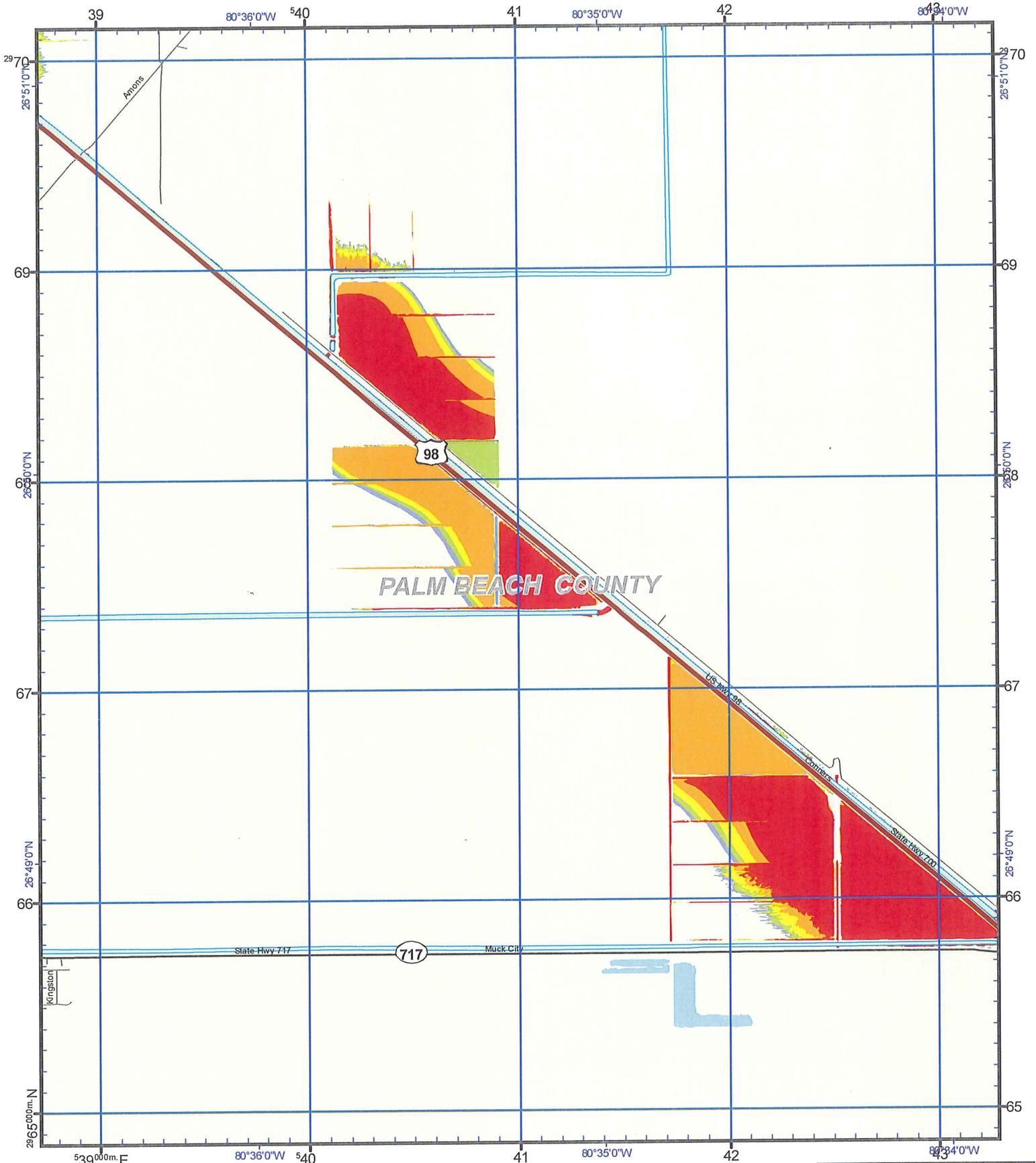
Scale - 1:24,000



USNG Page 17R NK 3867

Map Plate 37

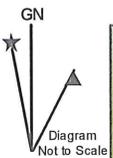




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:
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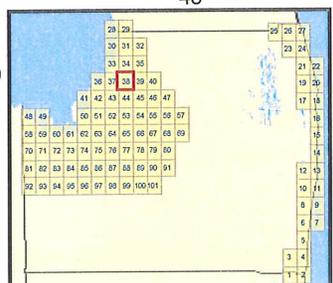
Legend

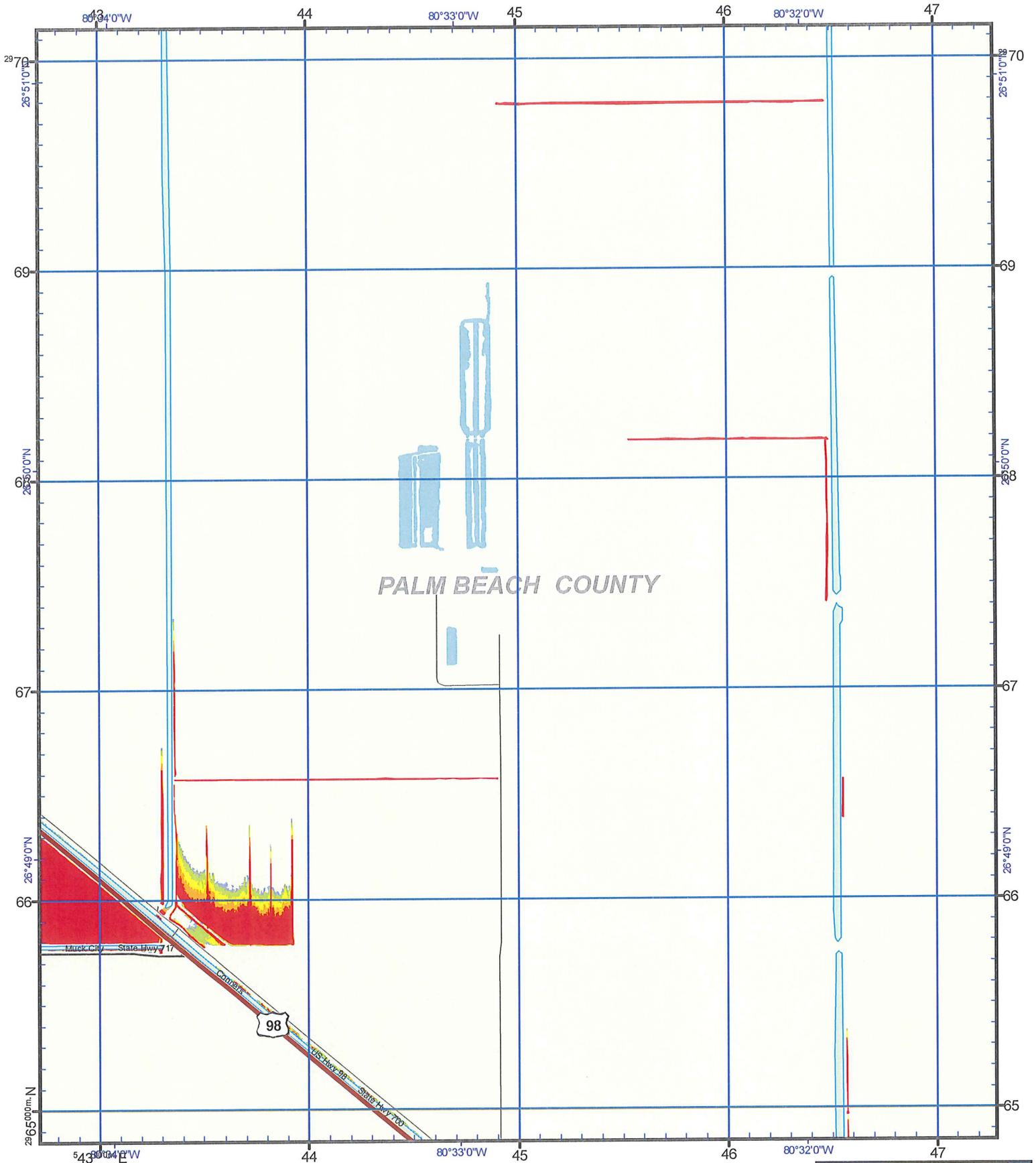
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 4067
Map Plate 38





US National Grid
100,000-m Square ID

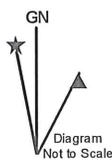
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Produced by Treasure Coast Regional Planning Council for Florida Division of Emergency Management, 2009-2010



Notes:

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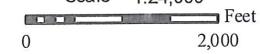
Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- | | |
|--|-------|
| | Cat 1 |
| | Cat 2 |
| | Cat 3 |
| | Cat 4 |
| | Cat 5 |

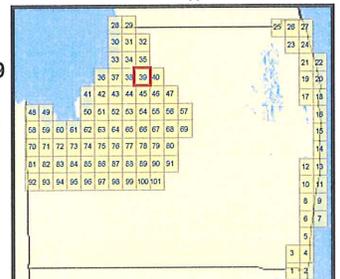
Storm Tide Zones
Palm Beach County, 2009

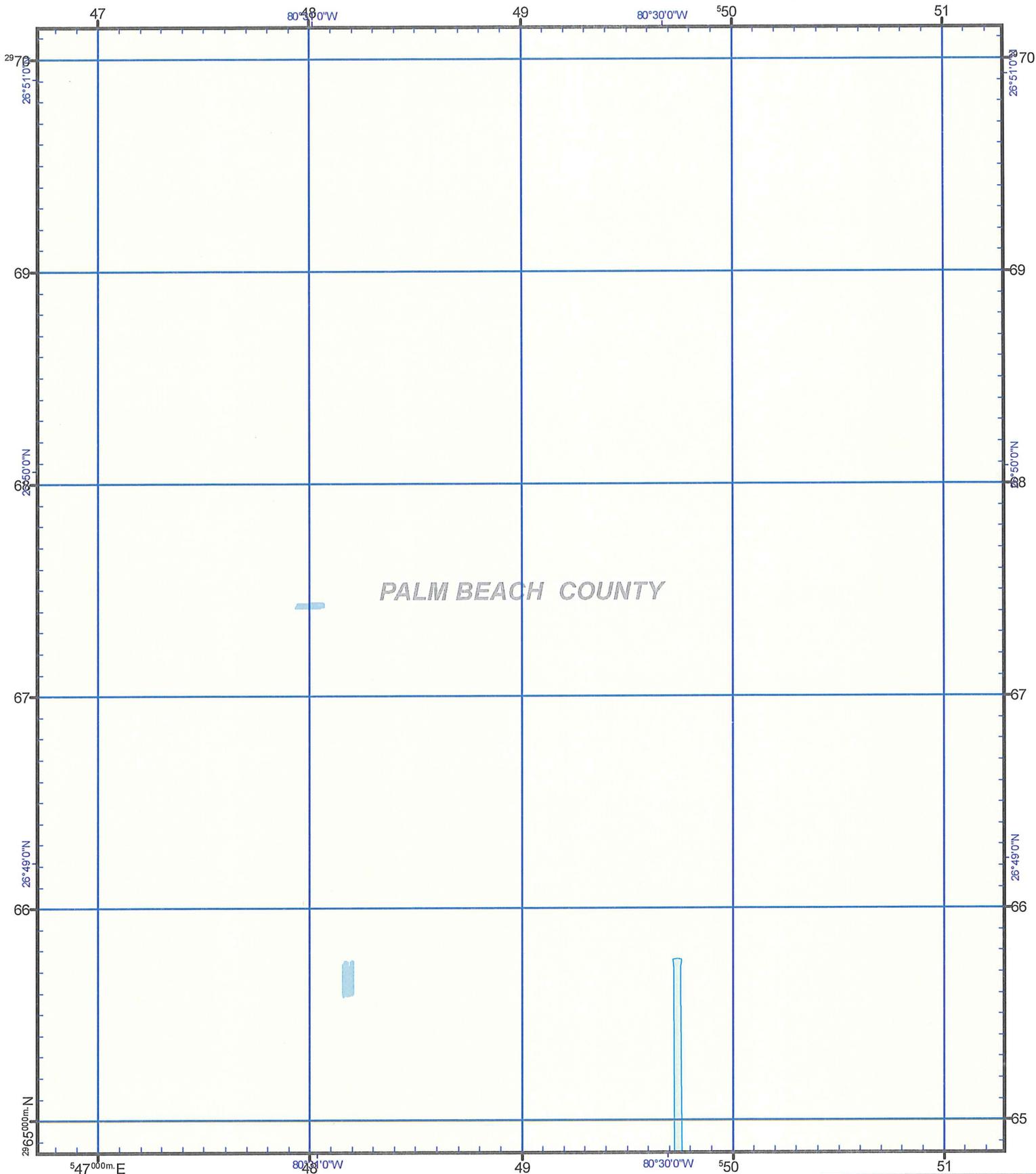
Scale - 1:24,000



USNG Page 17R NK 4668

Map Plate 39

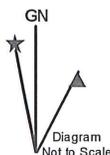




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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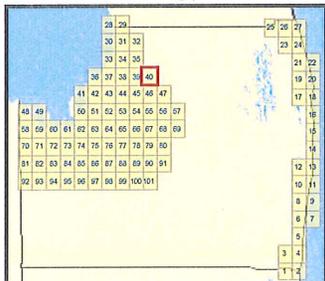


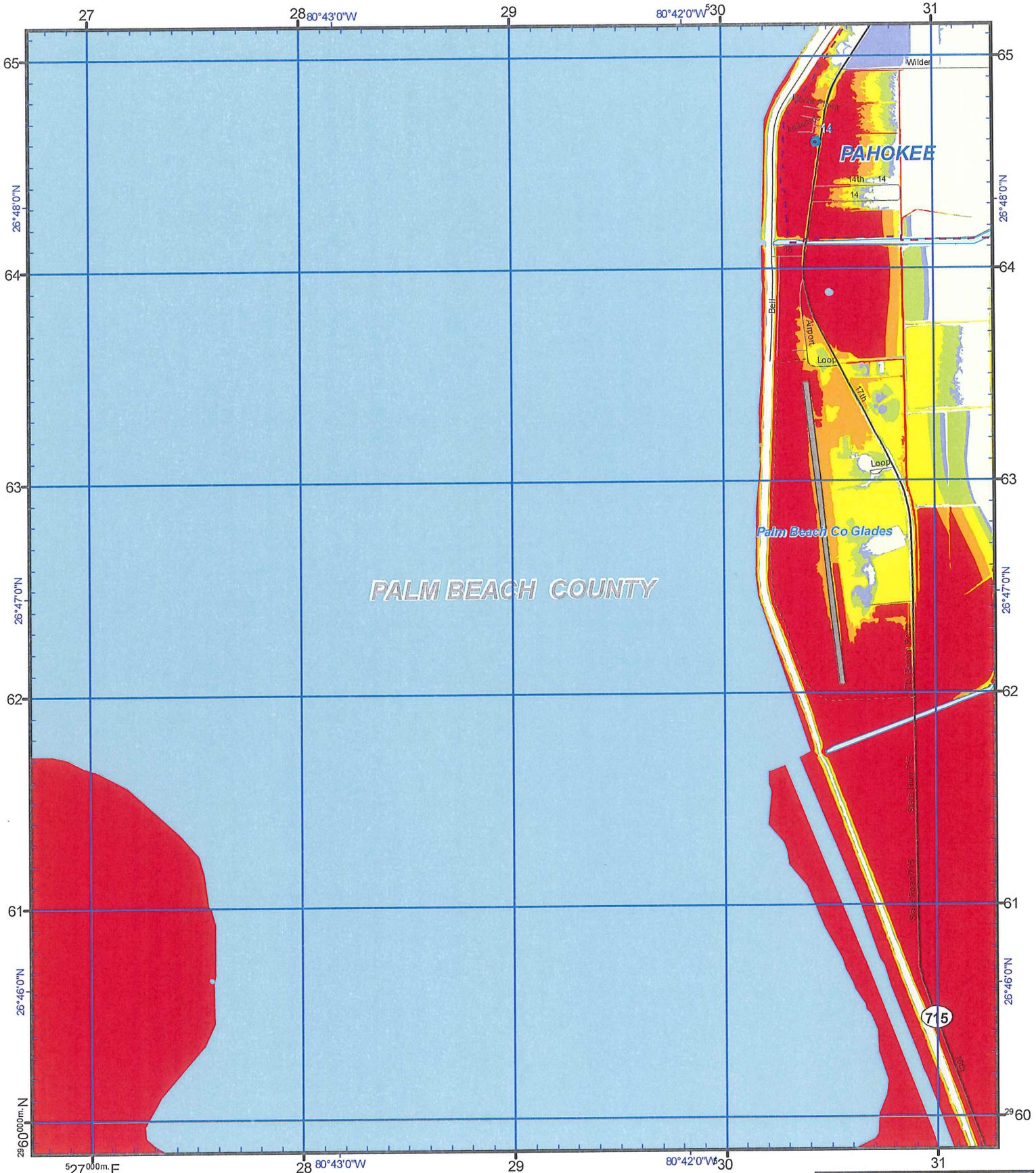
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
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Legend

Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 4768
Map Plate 40





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

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Legend

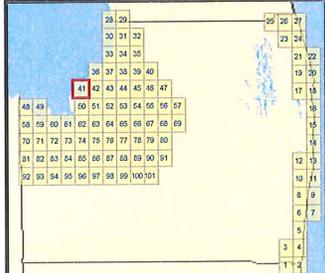
Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

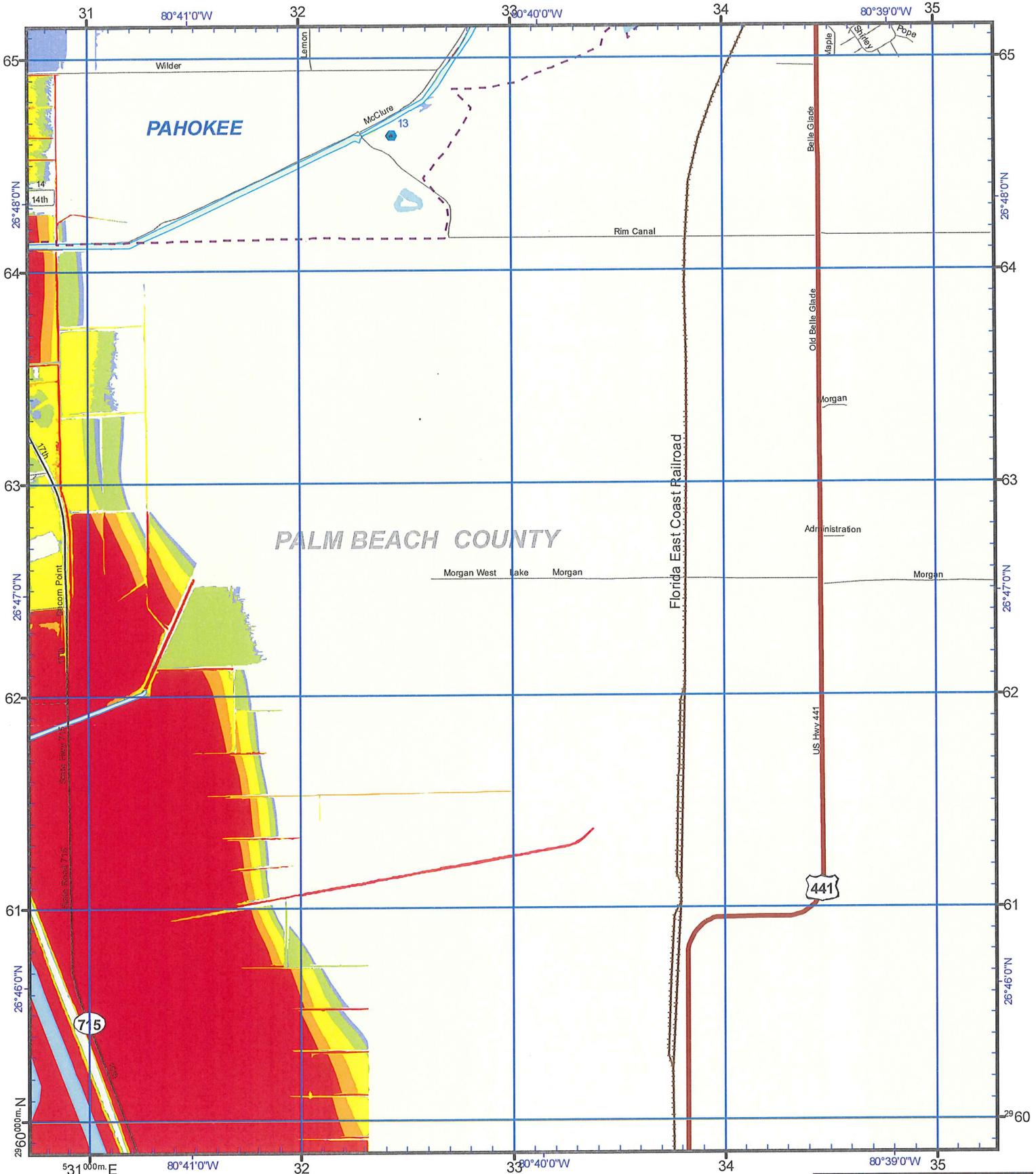
Storm Tide Zones
Palm Beach County, 2009

Scale - 1:24,000

0 2,000 Feet

USNG Page 17R NK 2963
Map Plate 41

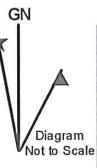




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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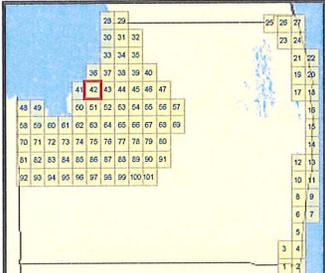
Legend

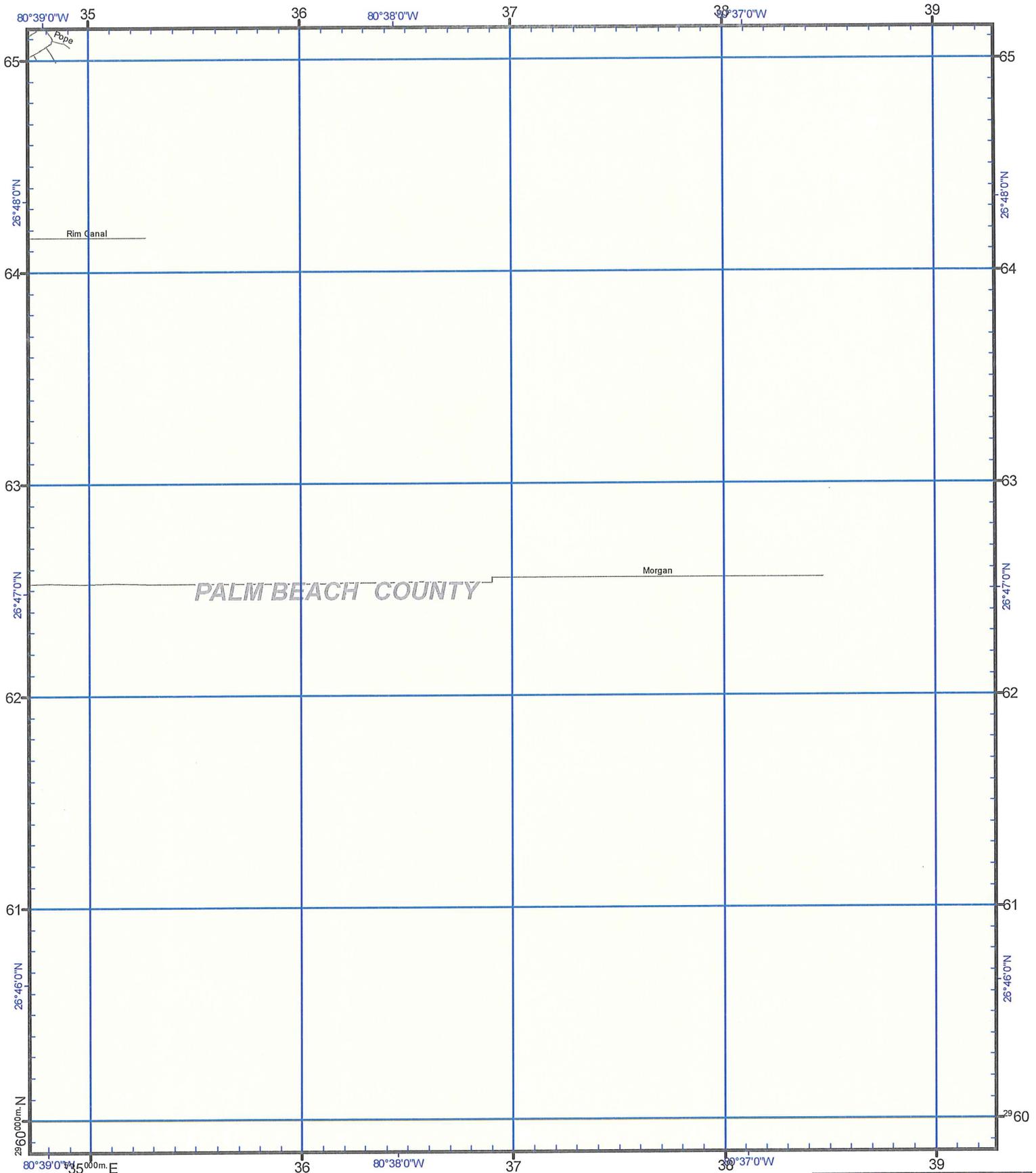
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 3460
Map Plate 42



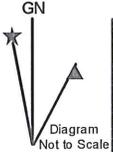


PALM BEACH COUNTY

Rim Canal

Morgan

US National Grid
 100,000-m Square ID
NK
 Grid Zone Designation
17R
 Datum = NAD 1983, 1,000-m USNG
 Page Index by Delta State University 2009



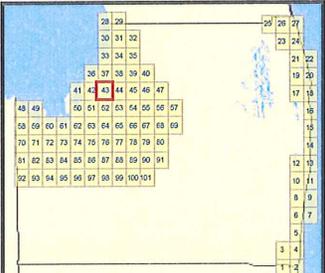
Notes:
 1. Surge limits are based on still water storm tide height elevation, above NAVD88 at high tide with no wave setup.
 2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
 3. The Points of Reference are locations determined to be relevant to emergency management officials.

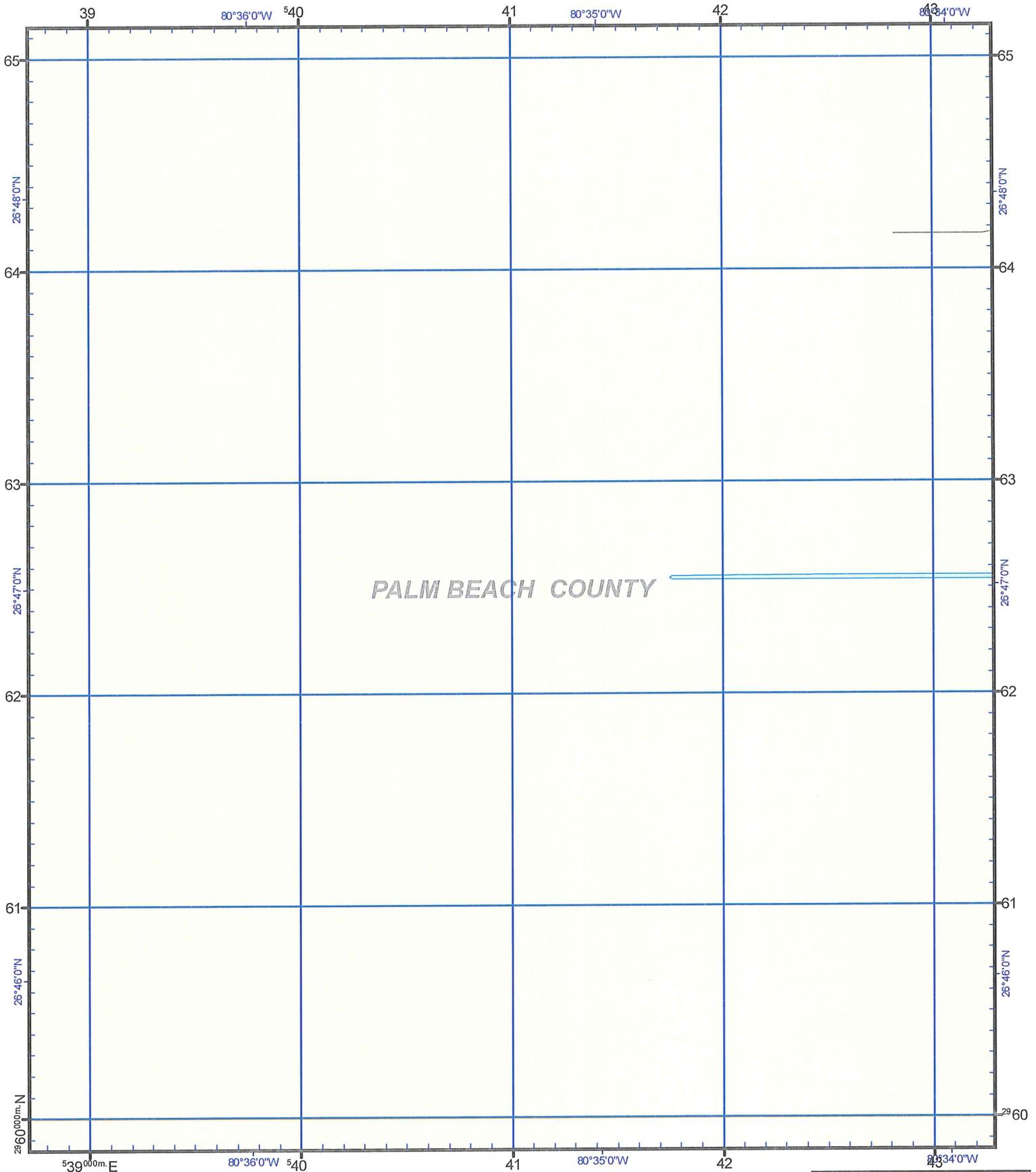
Legend

Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

Storm Tide Zones
 Palm Beach County, 2009
 Scale - 1:24,000

 USNG Page 17R NK 3760
 Map Plate 43

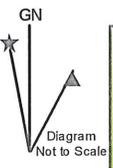




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:
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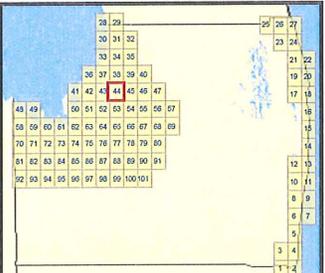
Legend

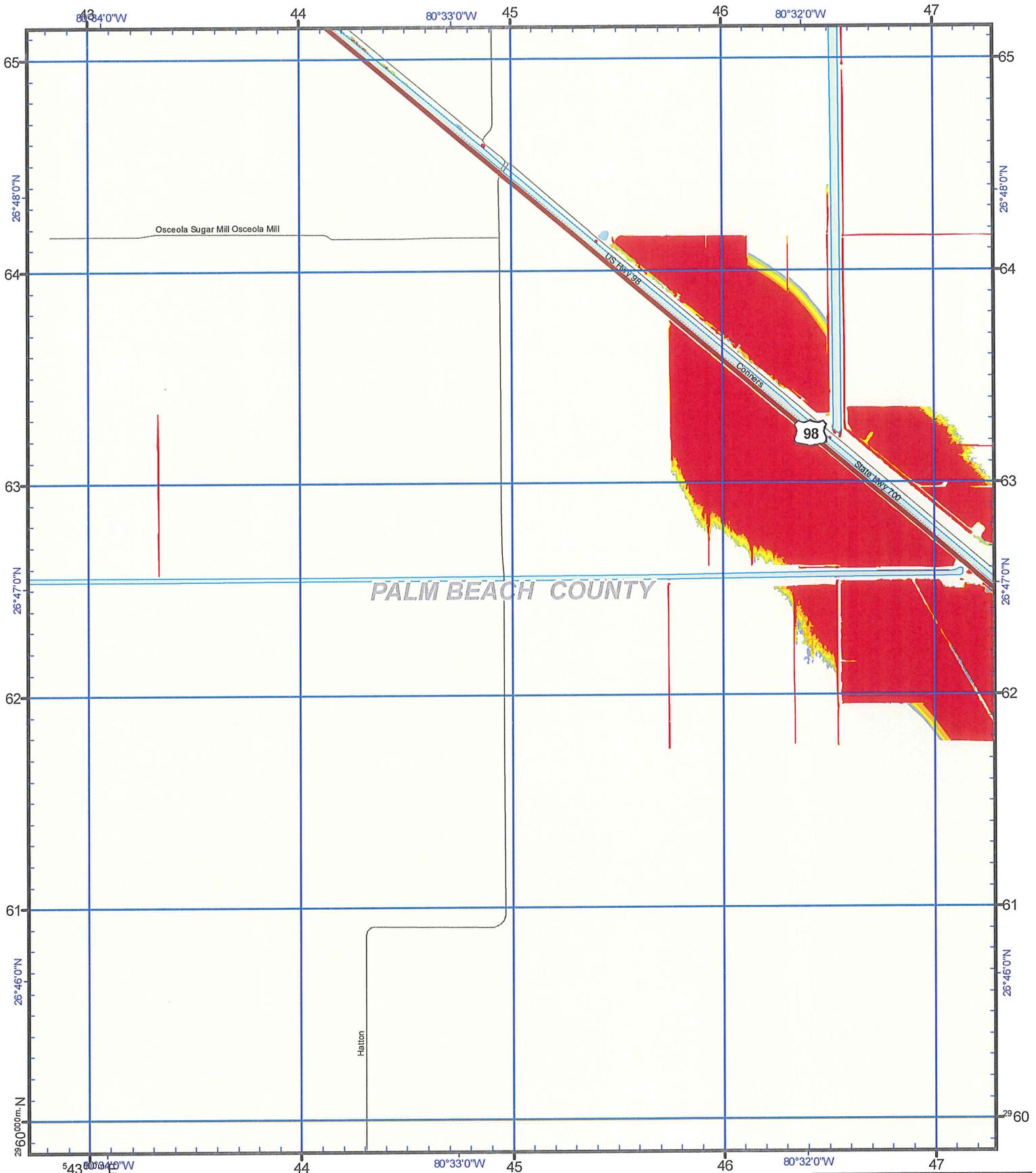
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 4260
Map Plate 44





US National Grid
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:

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3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- | | |
|--|-------|
| | Cat 1 |
| | Cat 2 |
| | Cat 3 |
| | Cat 4 |
| | Cat 5 |

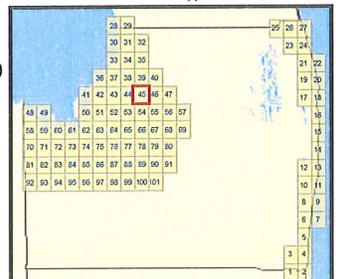
Storm Tide Zones
Palm Beach County, 2009

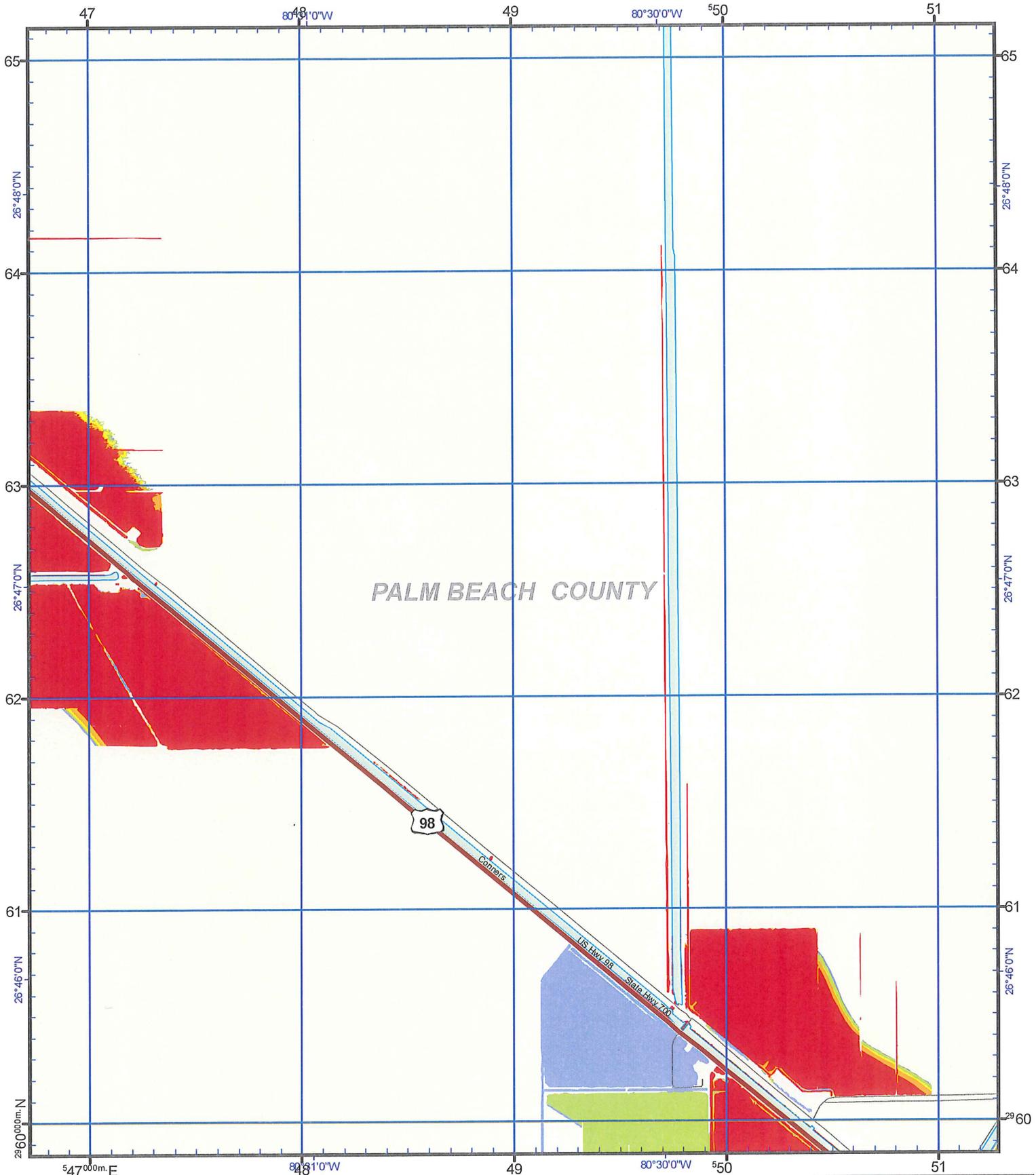
Scale - 1:24,000



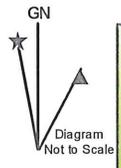
USNG Page 17R NK 4660

Map Plate 45





US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

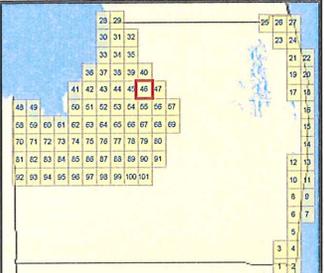


Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD83 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
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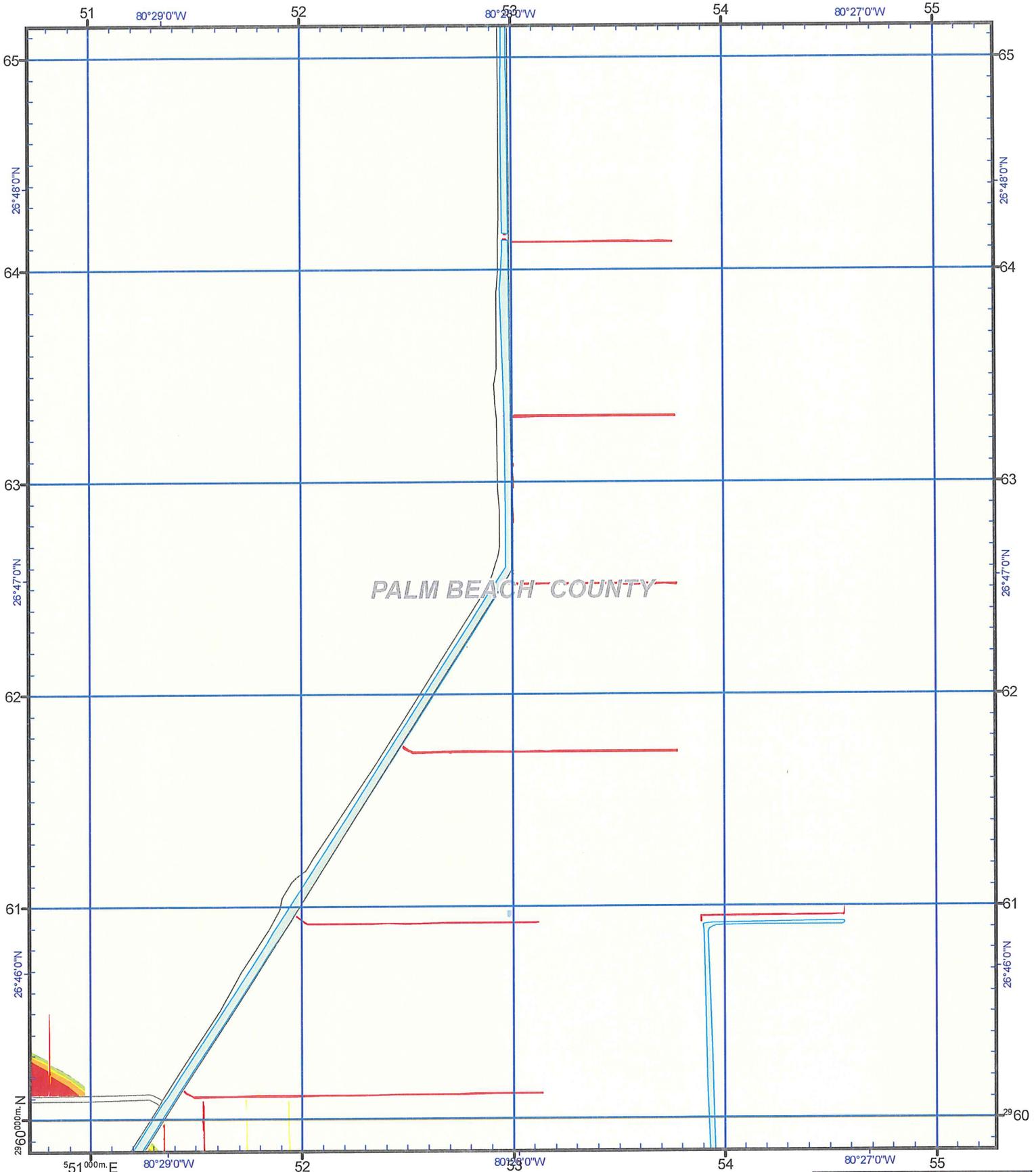
Legend

Hospital	Points of Reference	Cat 1
Evacuation Route	City Limits	Cat 2
Lakes	Major Water	Cat 3
		Cat 4
		Cat 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 5060
Map Plate 46



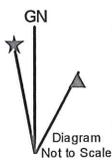
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US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Legend

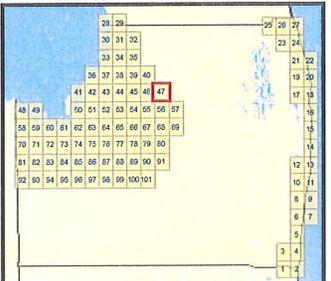
Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

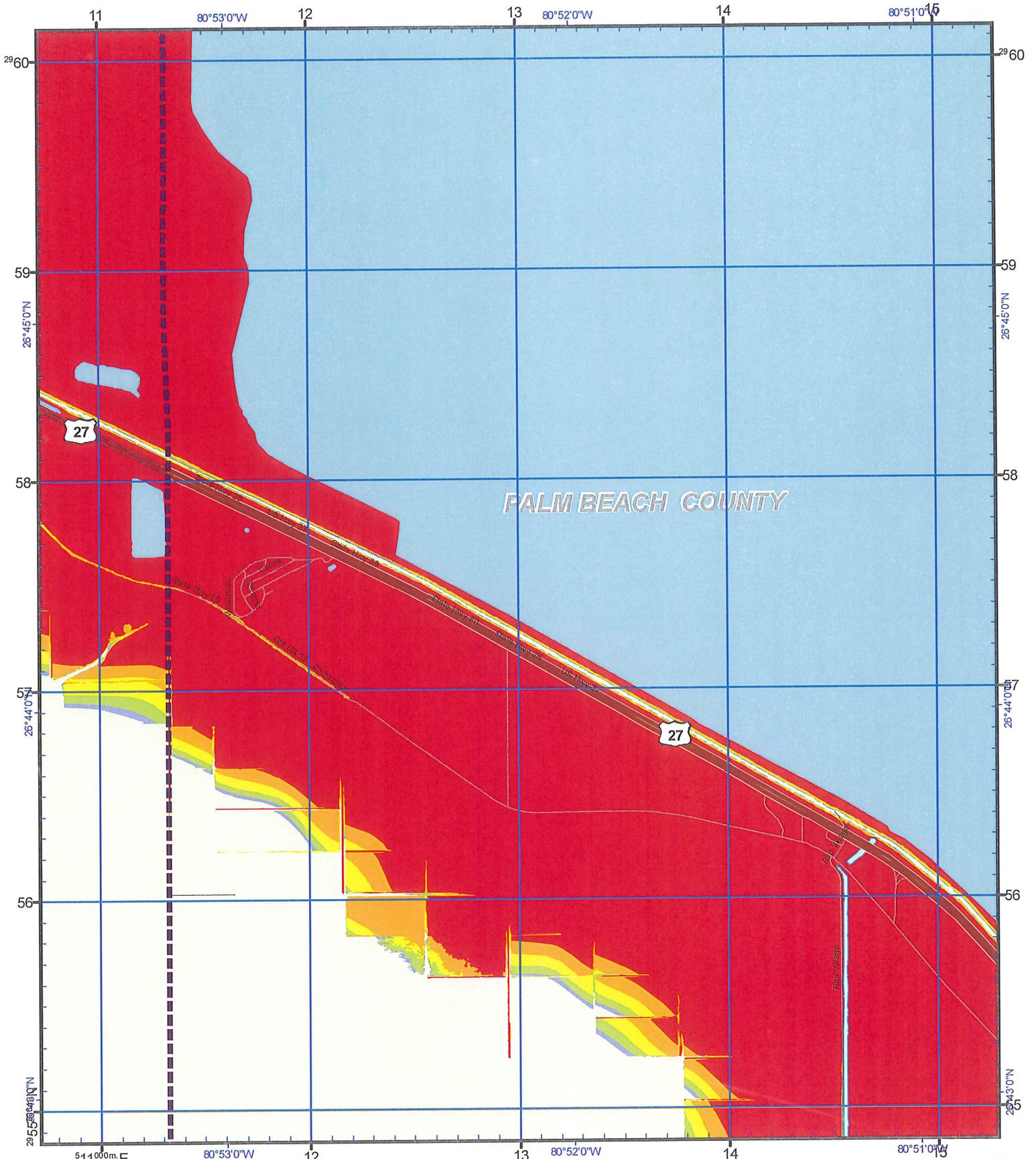
Storm Tide Zones
Palm Beach County, 2009

Scale - 1:24,000

0 2,000 Feet

USNG Page 17R NK 5460
Map Plate 47

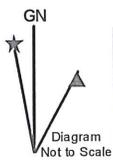




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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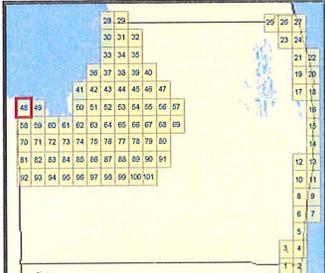
Legend

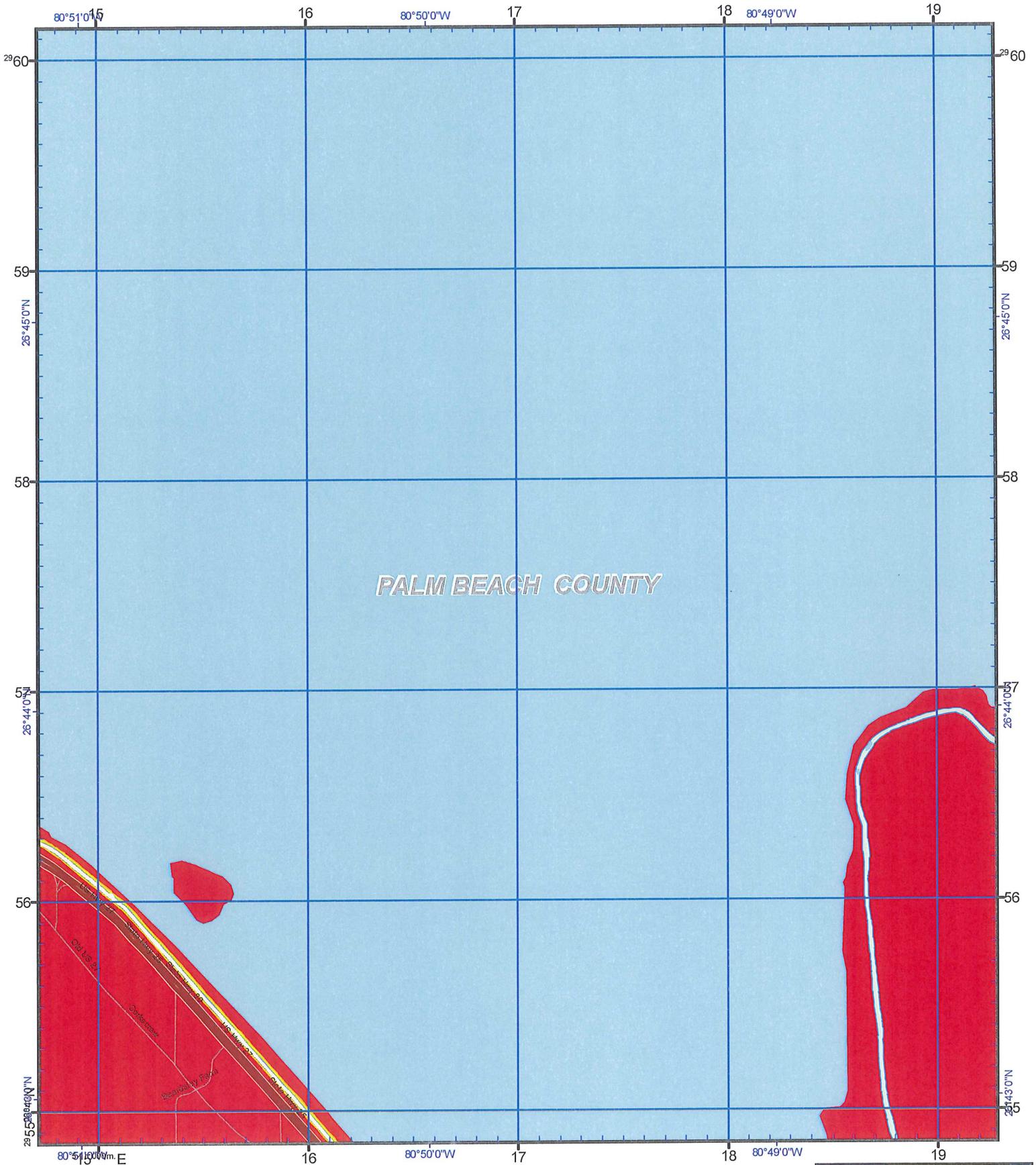
Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

Storm Tide Zones
Palm Beach County, 2009

Scale - 1:24,000

USNG Page 17R NK 1456
Map Plate 48



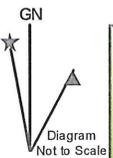


PALM BEACH COUNTY

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

Datum = NAD 1983, 1,000-m USNG
 Page Index by Delta State University 2009

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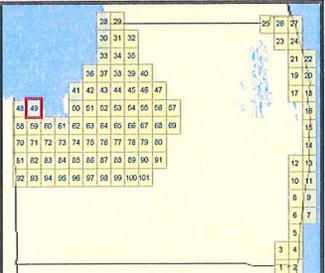


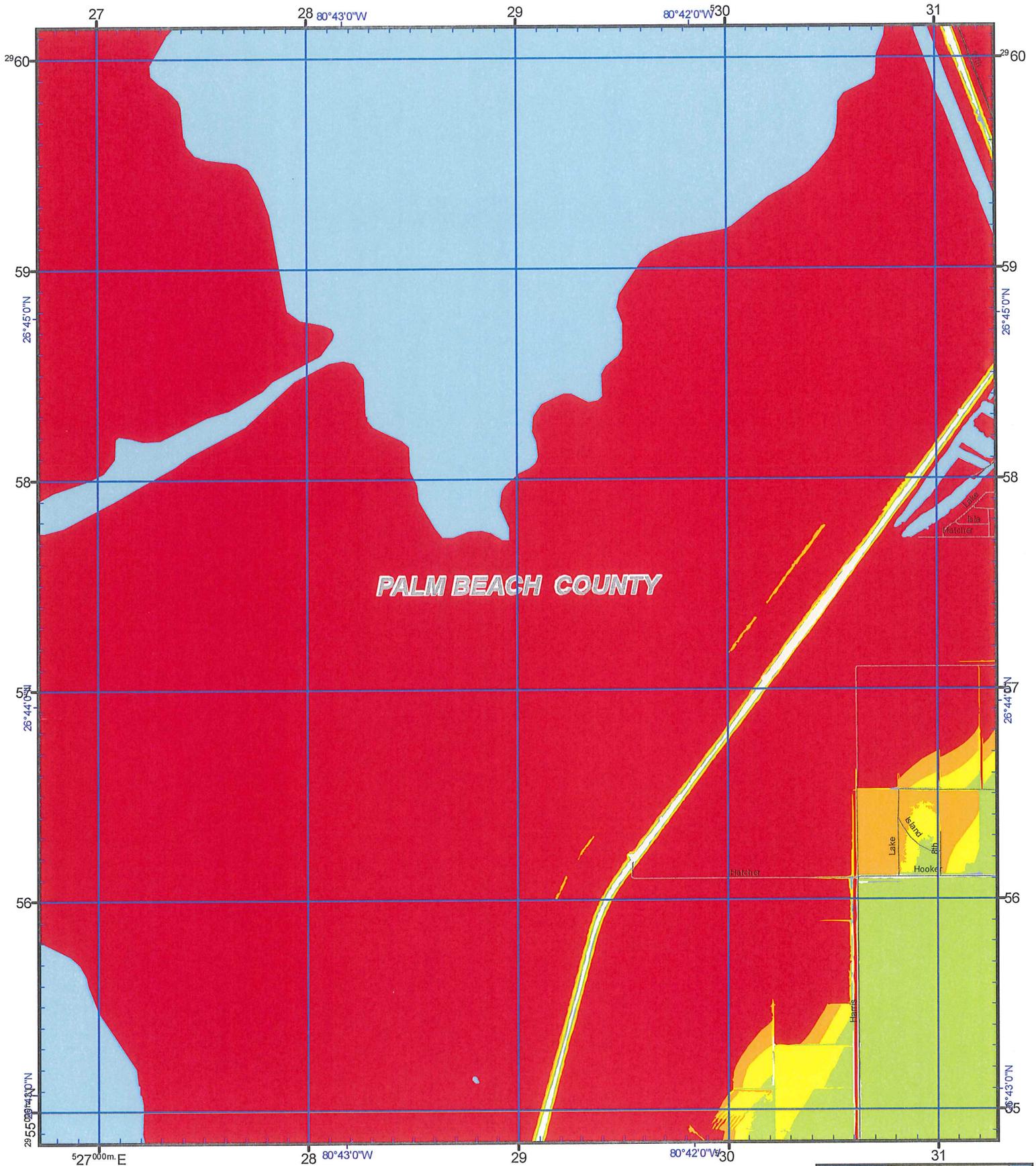
Notes:
 1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
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 3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

	Hospital		Cat 1
	Points of Reference		Cat 2
	Evacuation Route		Cat 3
	City Limits		Cat 4
	Lakes		Cat 5
	Major Water		

Storm Tide Zones
 Palm Beach County, 2009
 Scale - 1:24,000
 0 2,000 Feet
 USNG Page 17R NK 1856
 Map Plate 49



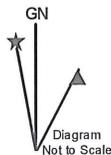


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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

Produced by Treasure Coast Regional Planning Council for Florida Division of Emergency Management, 2009-2010



Notes:

1. Surge limits are based on still water storm tide height elevation above NAVD83 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- Cat 1
- Cat 2
- Cat 3
- Cat 4
- Cat 5

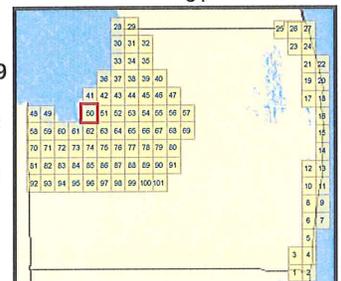
Storm Tide Zones
Palm Beach County, 2009

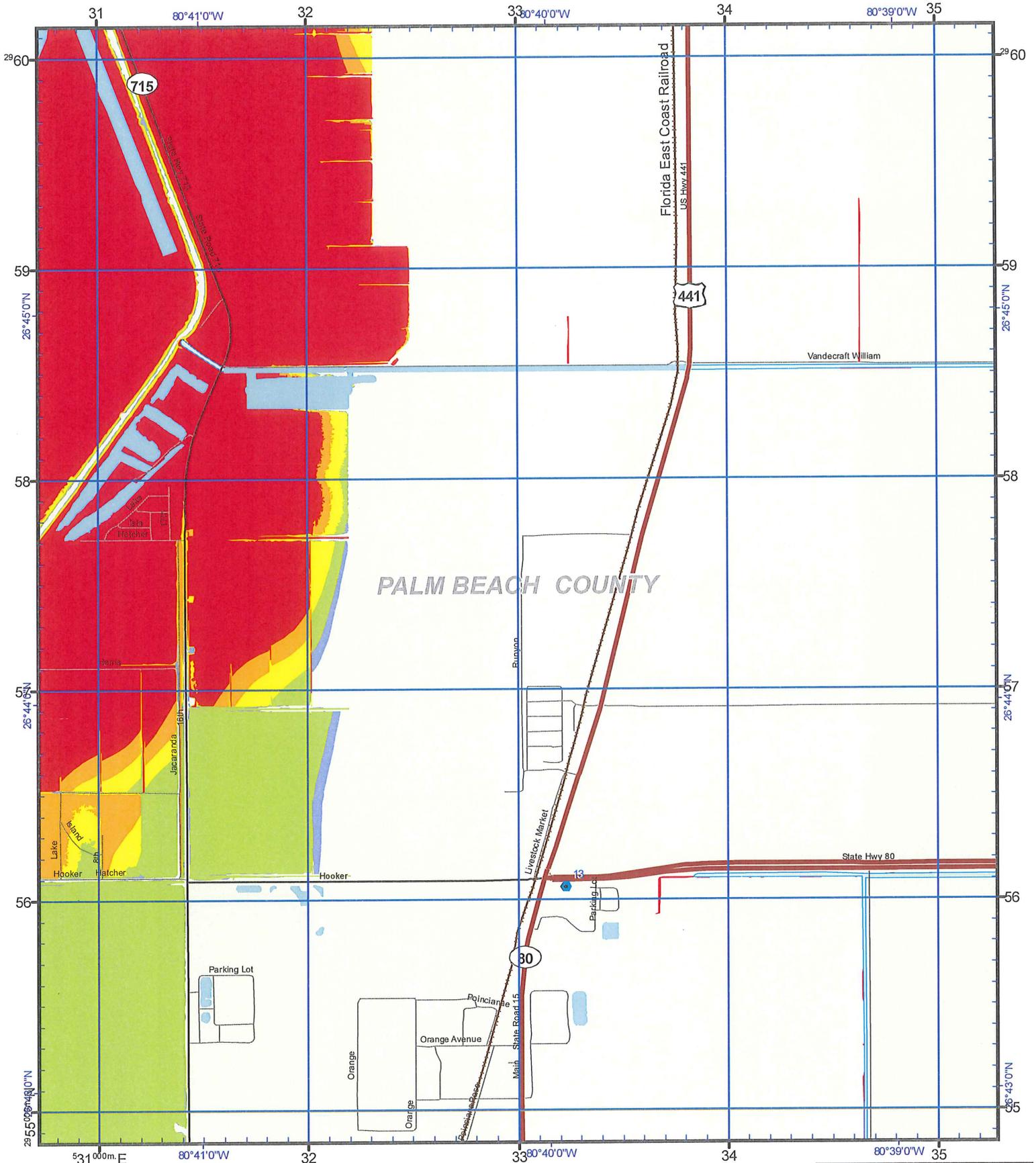
Scale - 1:24,000



USNG Page 17R NK 3056

Map Plate 50

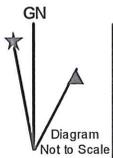




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:
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3. The Points of Reference are locations determined to be relevant to emergency management officials.

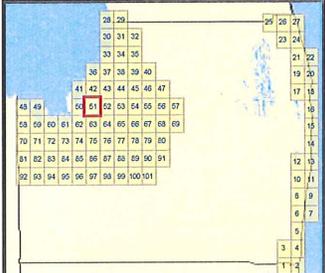
Legend

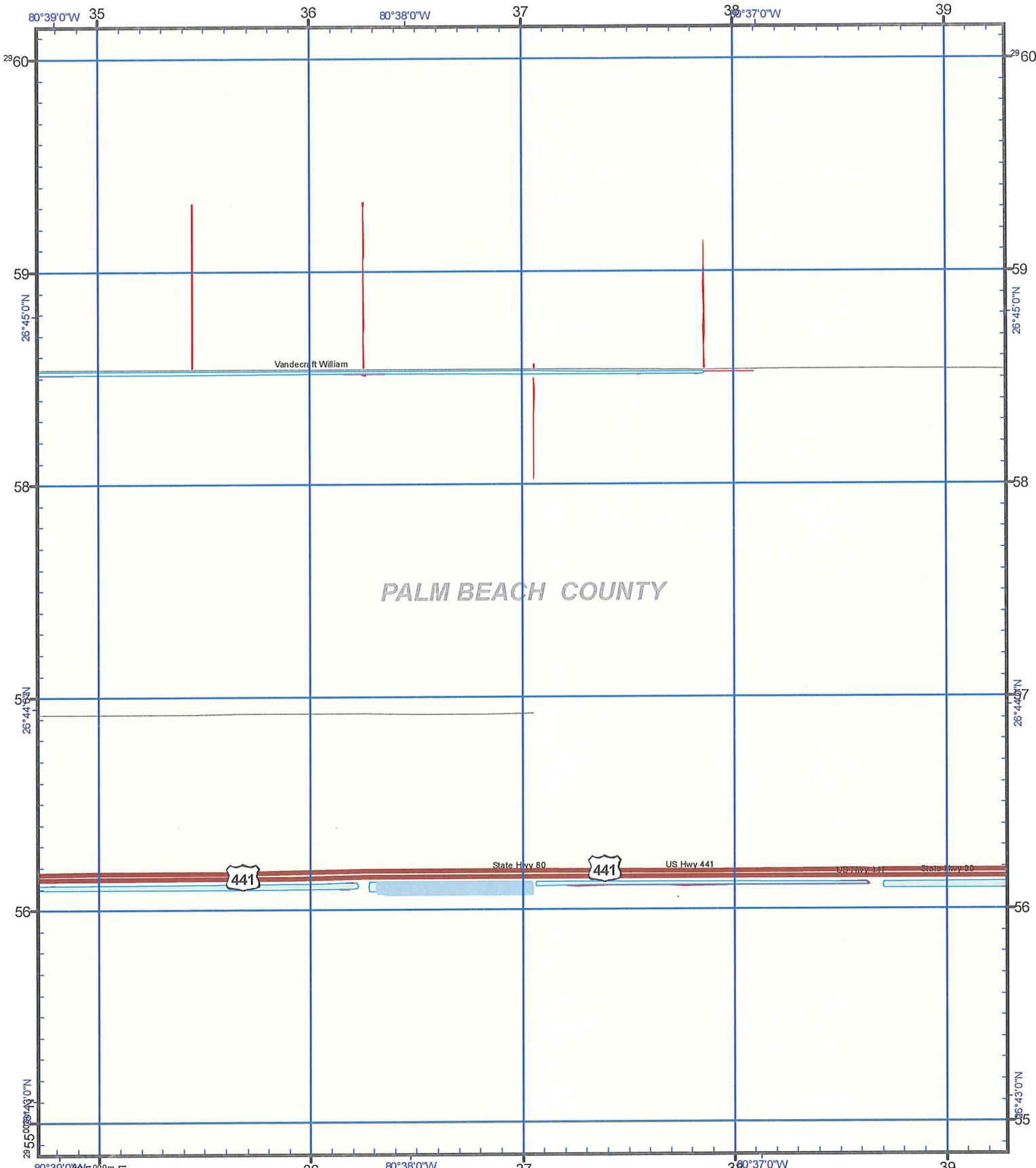
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 3456
Map Plate 51





PALM BEACH COUNTY

Vandercraft William

Slate Hwy 80

US Hwy 441

US Hwy 1

State Hwy 80



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

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:
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3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

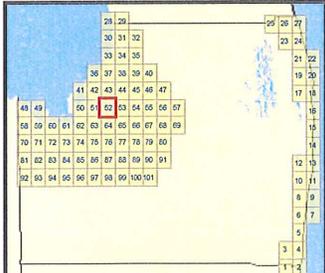
	Cat 1
	Cat 2
	Cat 3
	Cat 4
	Cat 5

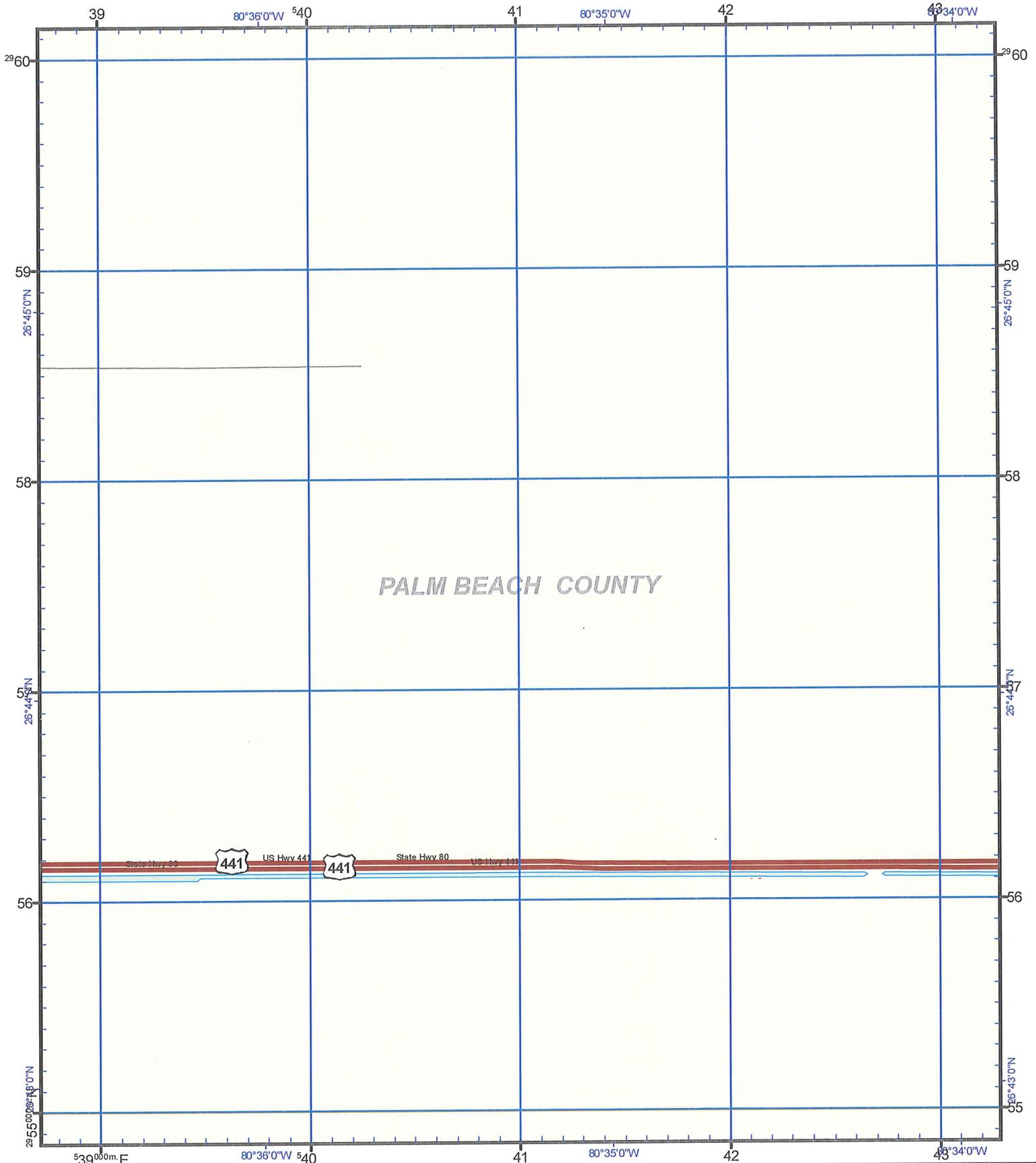
Storm Tide Zones
Palm Beach County, 2009

Scale - 1:24,000

0 2,000 Feet

USNG Page 17R NK 3856
Map Plate 52



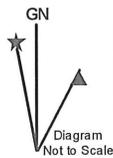


State Hwy 80 441 US Hwy 441 441 State Hwy 80 US Hwy 441

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

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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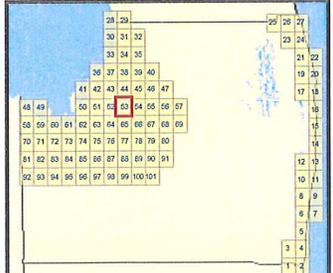


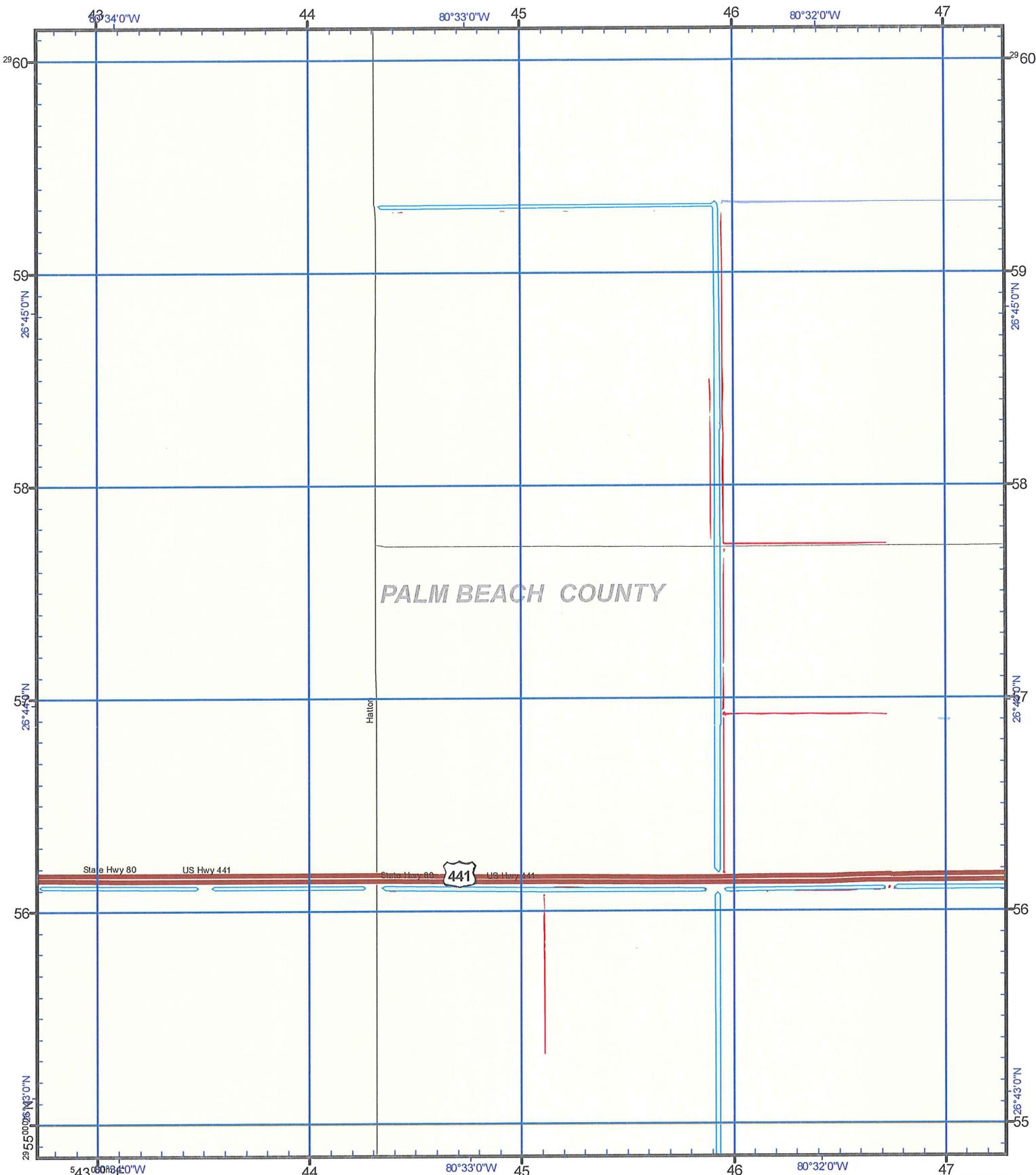
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD83 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 3956
Map Plate 53

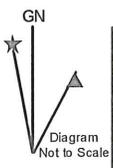




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:
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3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

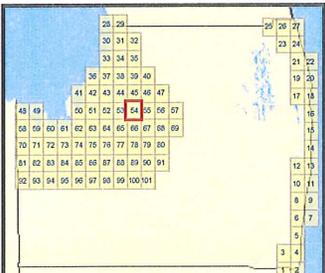
	Cat 1
	Cat 2
	Cat 3
	Cat 4
	Cat 5

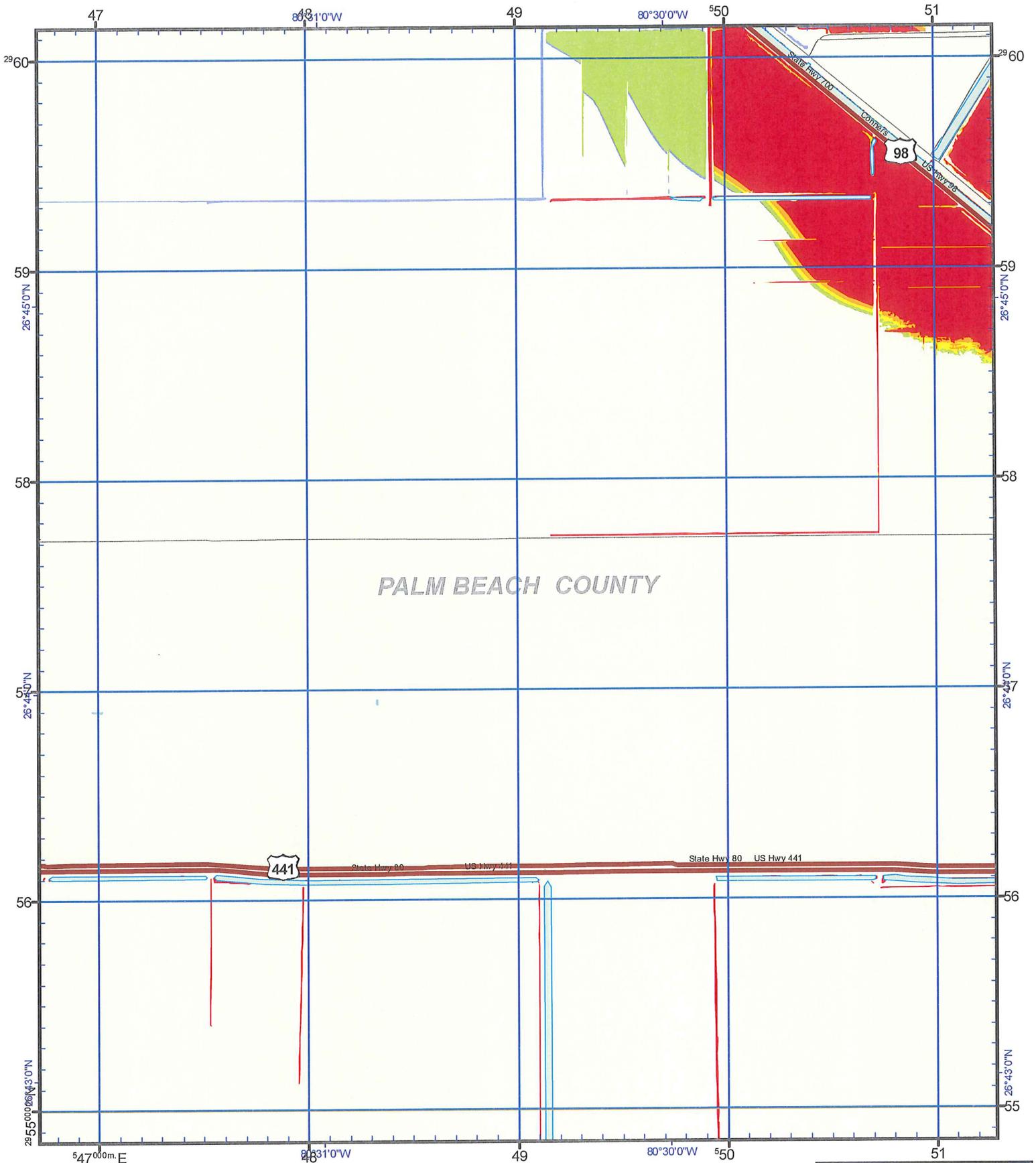
Storm Tide Zones
Palm Beach County, 2009

Scale - 1:24,000

0 2,000 Feet

USNG Page 17R NK 4659
Map Plate 54

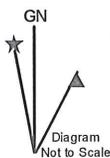




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

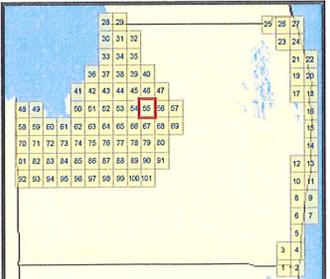
This map is for reference and planning purposes only. Hurricane evacuation decision-making and growth management implementation are local responsibilities. Please consult with local authorities.

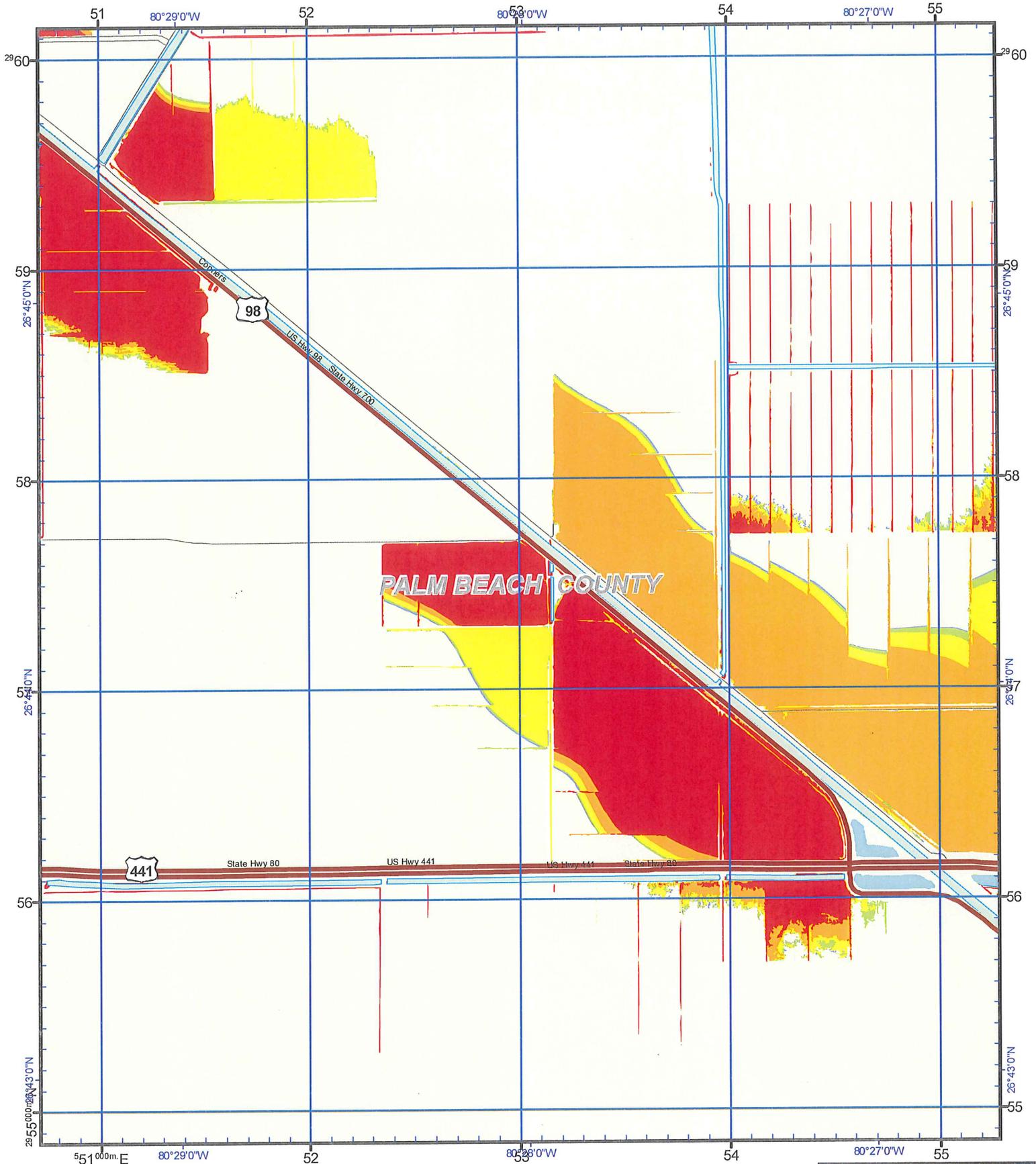


Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant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

Legend	
	Hospital
	Points of Reference
	Evacuation Route
	City Limits
	Lakes
	Major Water
	Cat 1
	Cat 2
	Cat 3
	Cat 4
	Cat 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 5059
Map Plate 55



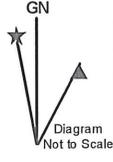


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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- Notes:**
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Legend

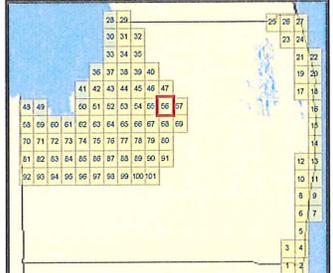
	Hospital		Cat 1
	Points of Reference		Cat 2
	Evacuation Route		Cat 3
	City Limits		Cat 4
	Lakes		Cat 5
	Major Water		

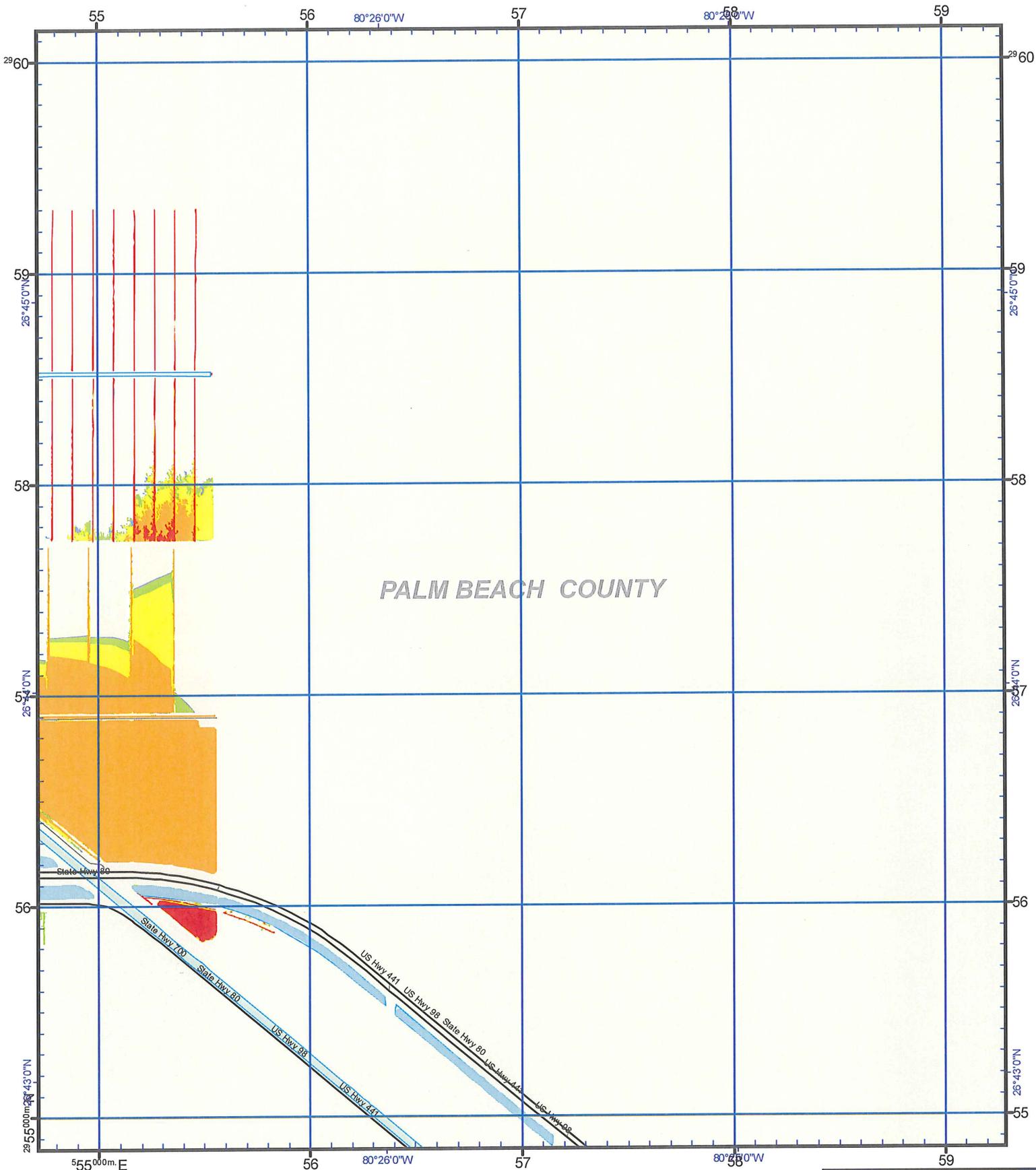
Storm Tide Zones
Palm Beach County, 2009

Scale - 1:24,000

0 2,000 Feet

USNG Page 17R NK 5459
Map Plate 56



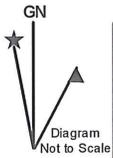


PALM BEACH COUNTY

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

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Hurricane evacuation decision-making and growth
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Notes:
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3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

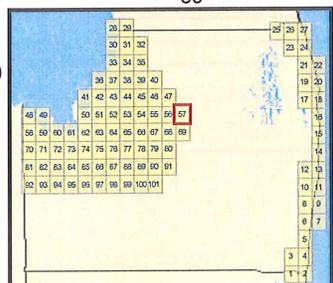
- 1
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- 5

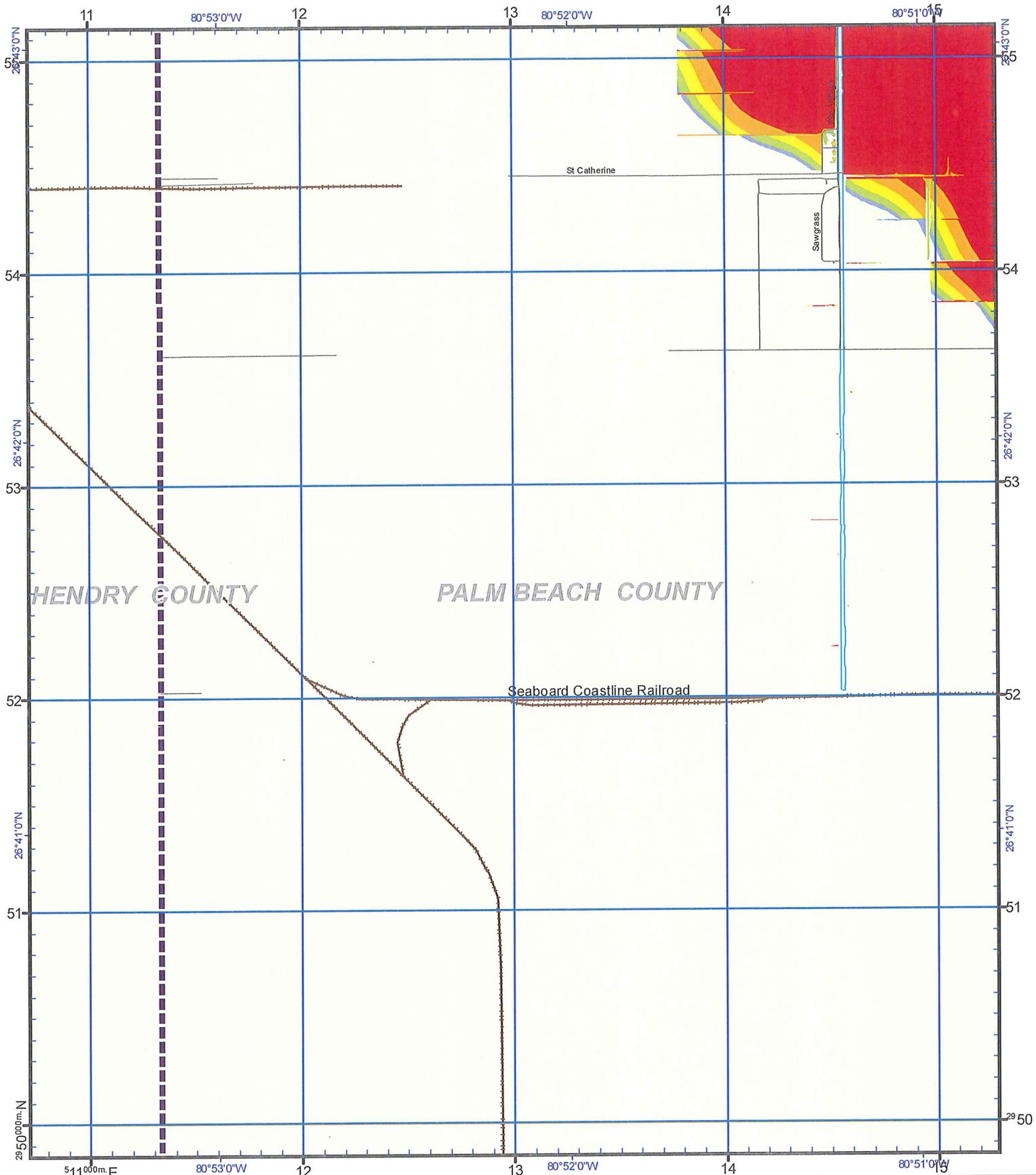
Storm Tide Zones
Palm Beach County, 2009

Scale - 1:24,000

0 2,000 Feet

USNG Page **17R NK 5859**
Map Plate **57**



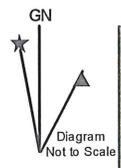


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
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Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

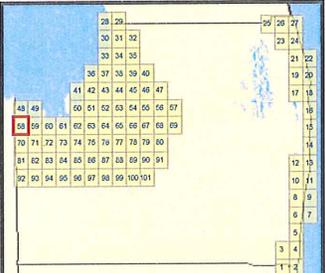
- 1
- 2
- 3
- 4
- 5

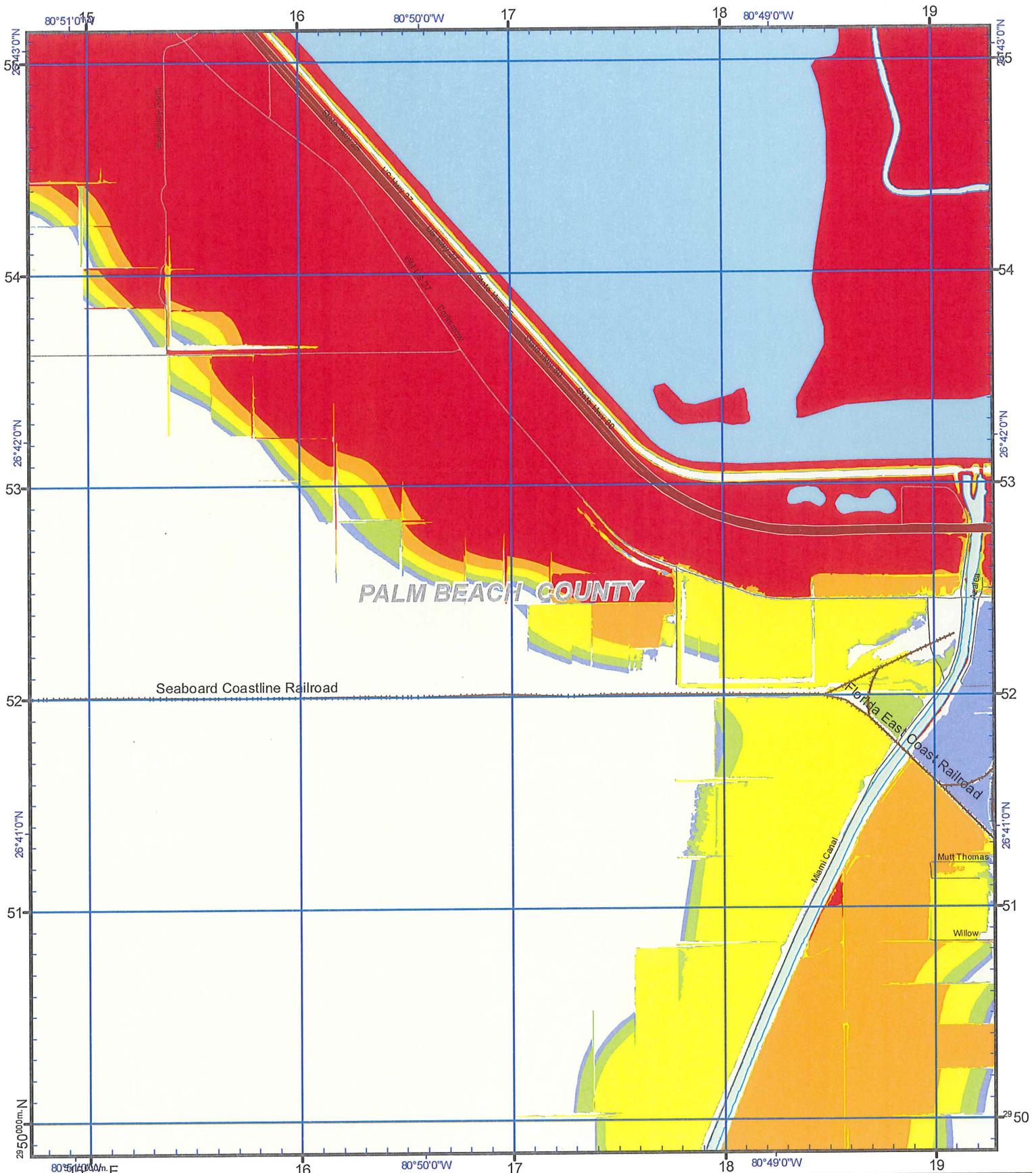
Storm Tide Zones
Palm Beach County, 2009

Scale - 1:24,000

0 2,000 Feet

USNG Page 17R NK 1452
Map Plate 58





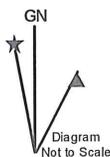
US National Grid
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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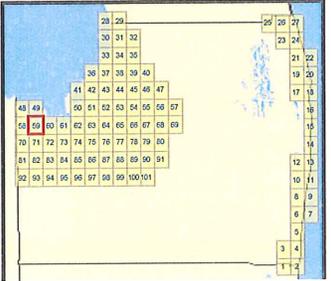
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD83 at high tide with no wave setup.
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3. The Points of Reference are locations determined to be relevant to emergency management officials.

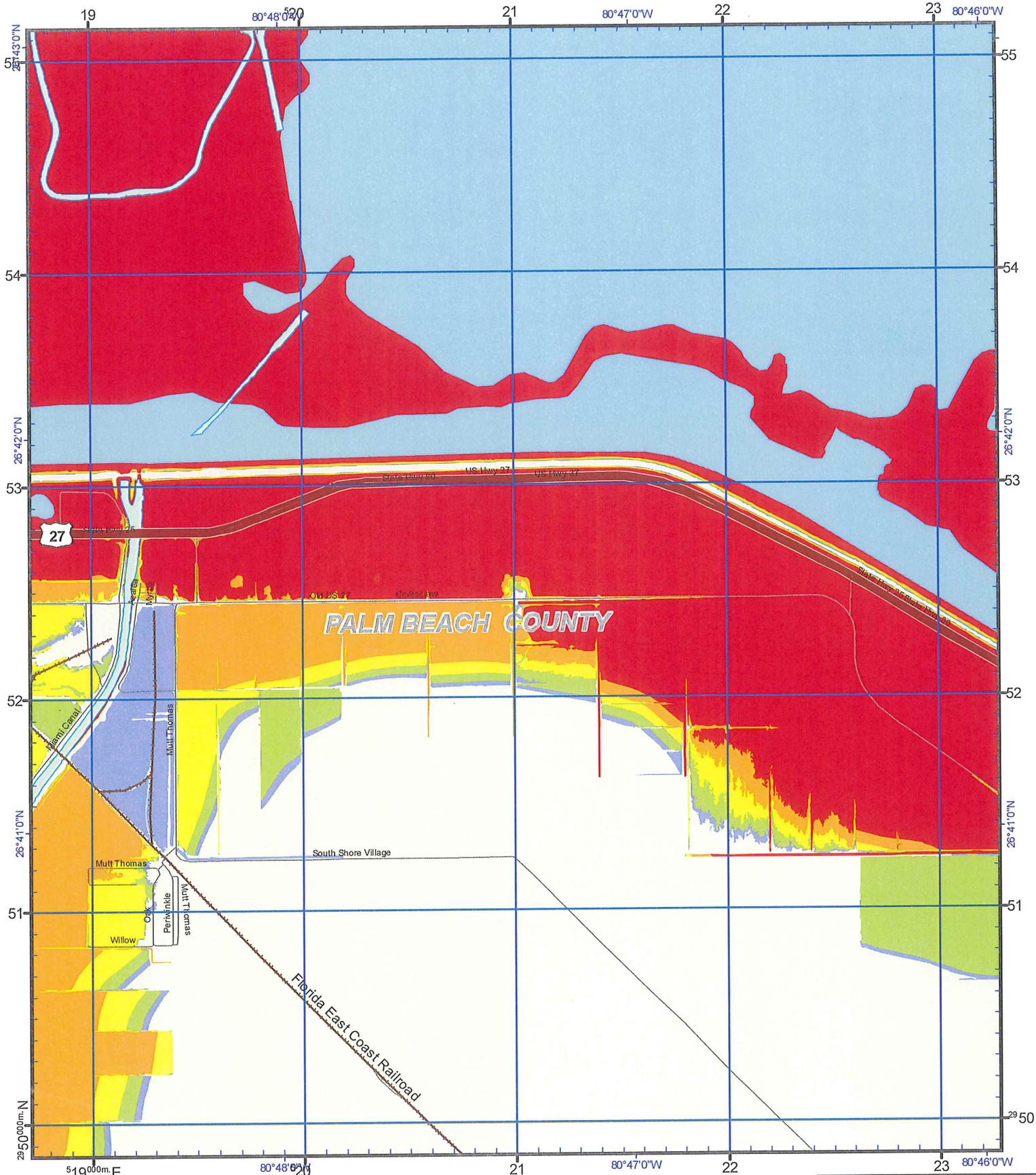
Legend	
	Hospital
	Points of Reference
	Evacuation Route
	City Limits
	Lakes
	Major Water
	Cat 1
	Cat 2
	Cat 3
	Cat 4
	Cat 5

Storm Tide Zones
Palm Beach County, 2009

Scale - 1:24,000

USNG Page 17R NK 1852
Map Plate 59





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

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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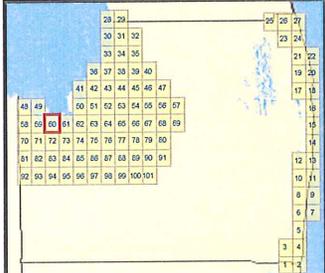
Legend

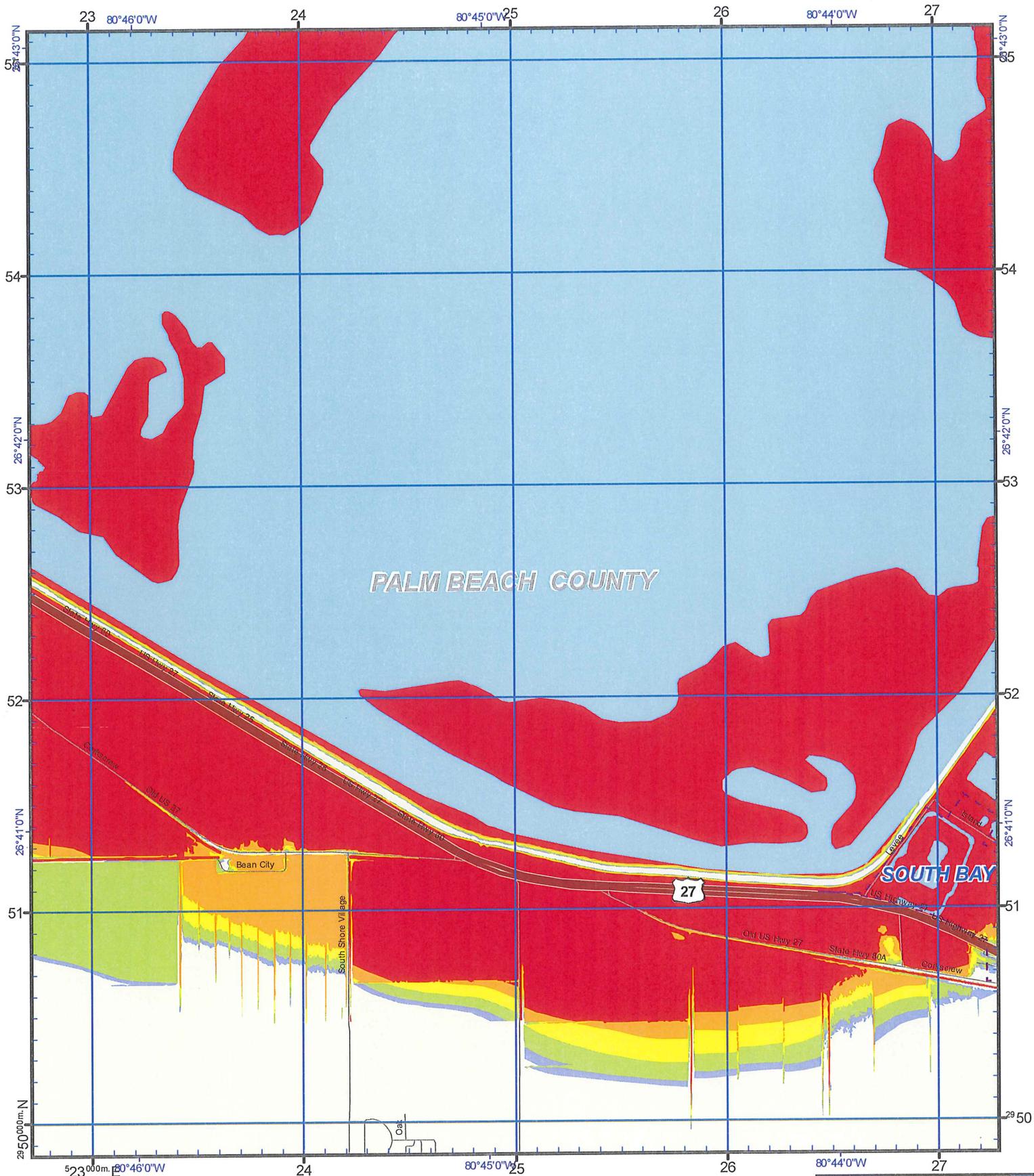
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 2252
Map Plate 60



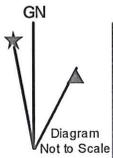


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:
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2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

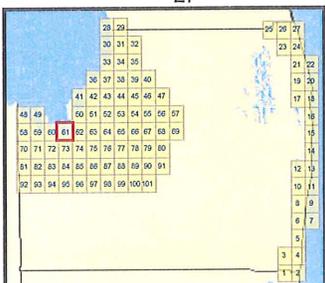
Cat

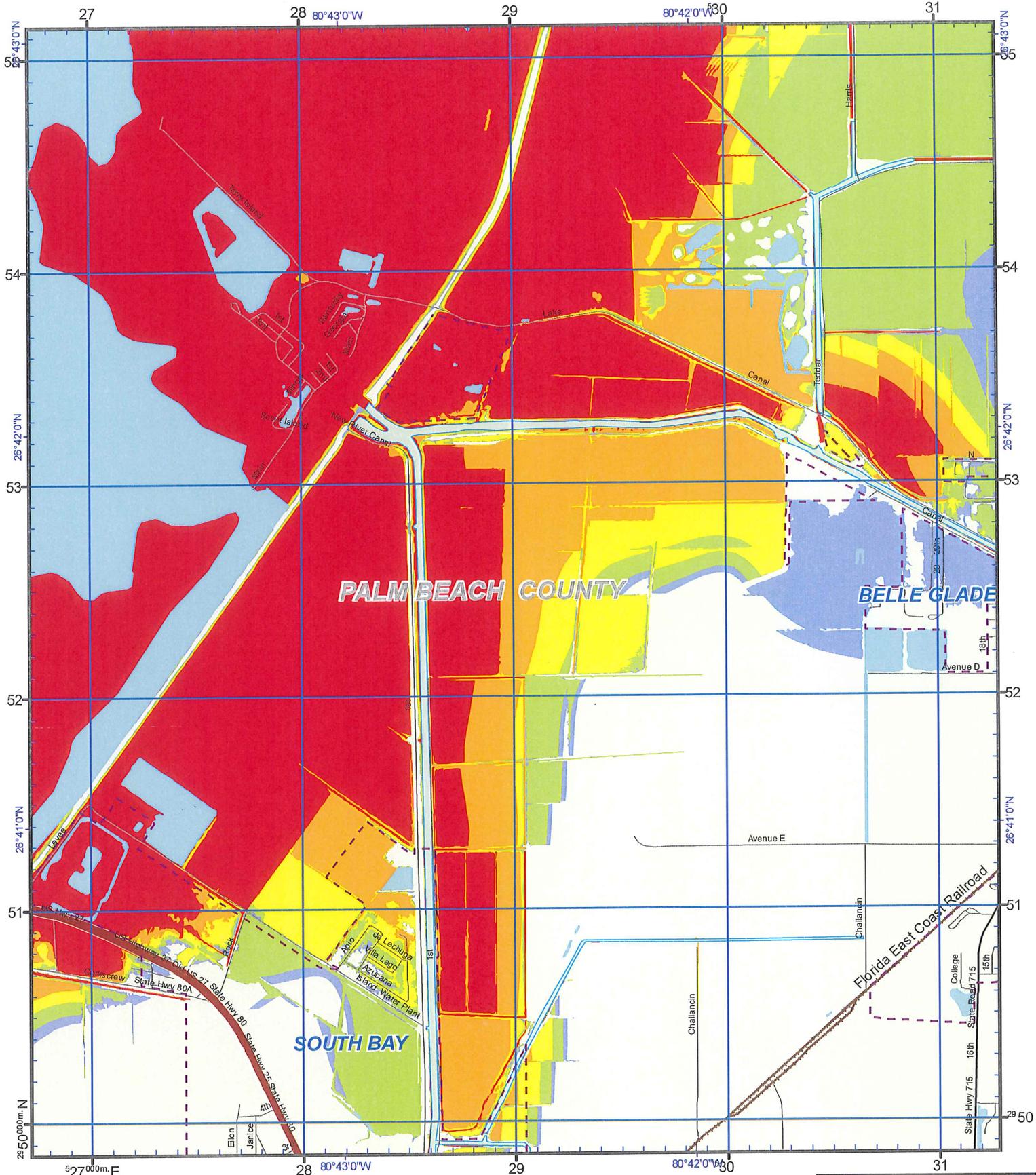
- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000

0 2,000 Feet

USNG Page 17R NK 2652
Map Plate 61

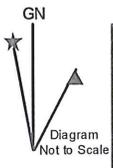




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Legend

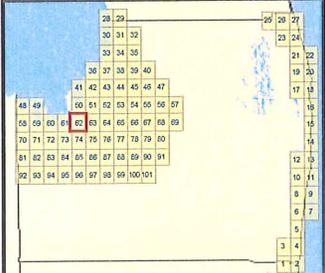
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

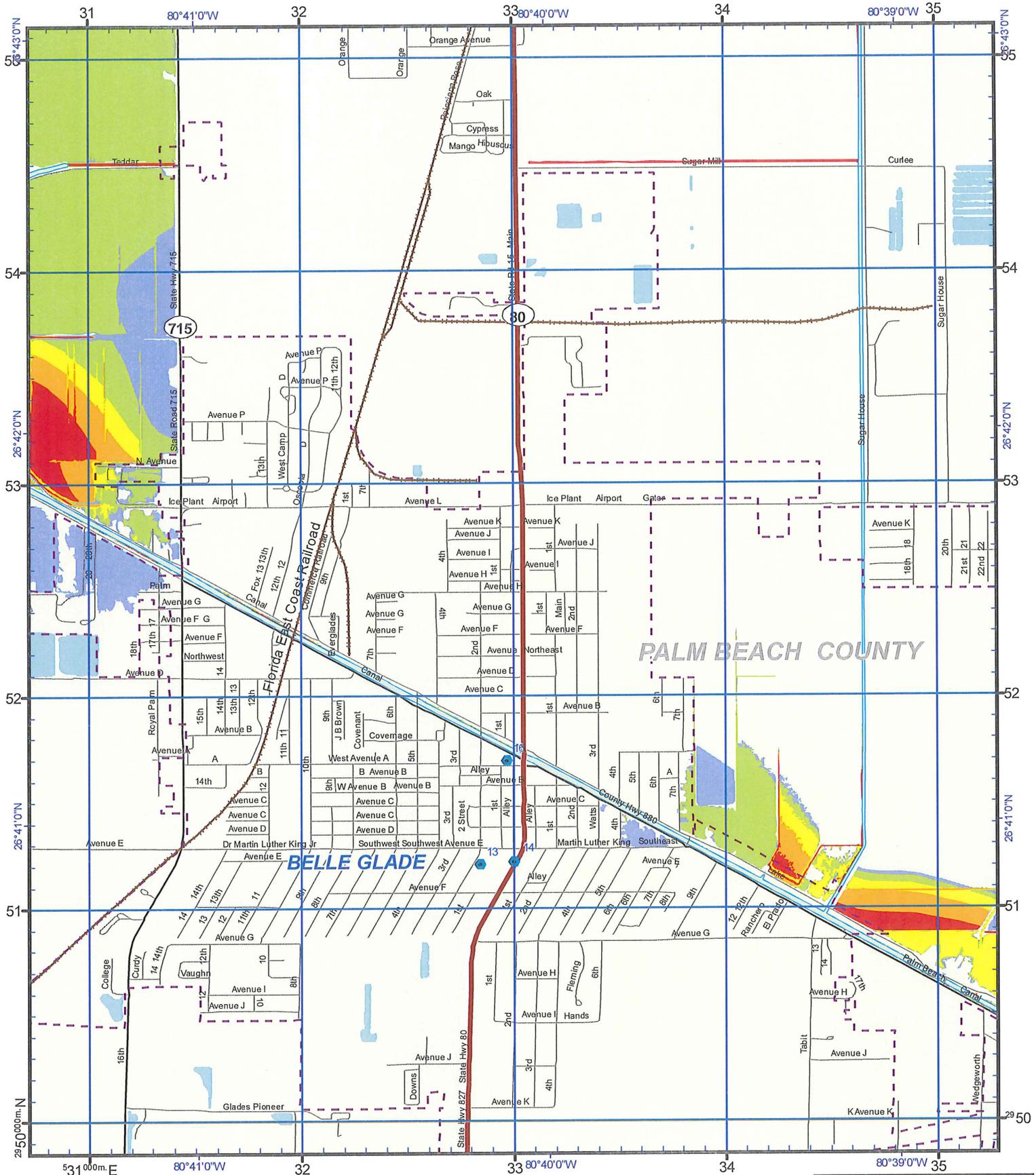
Cat

- 1
- 2
- 3
- 4
- 5

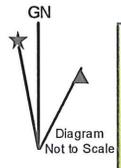
Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000

USNG Page 17R NK 3052
Map Plate 62





US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009



Notes:
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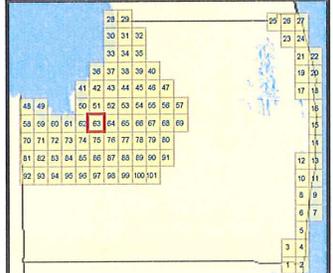
Legend

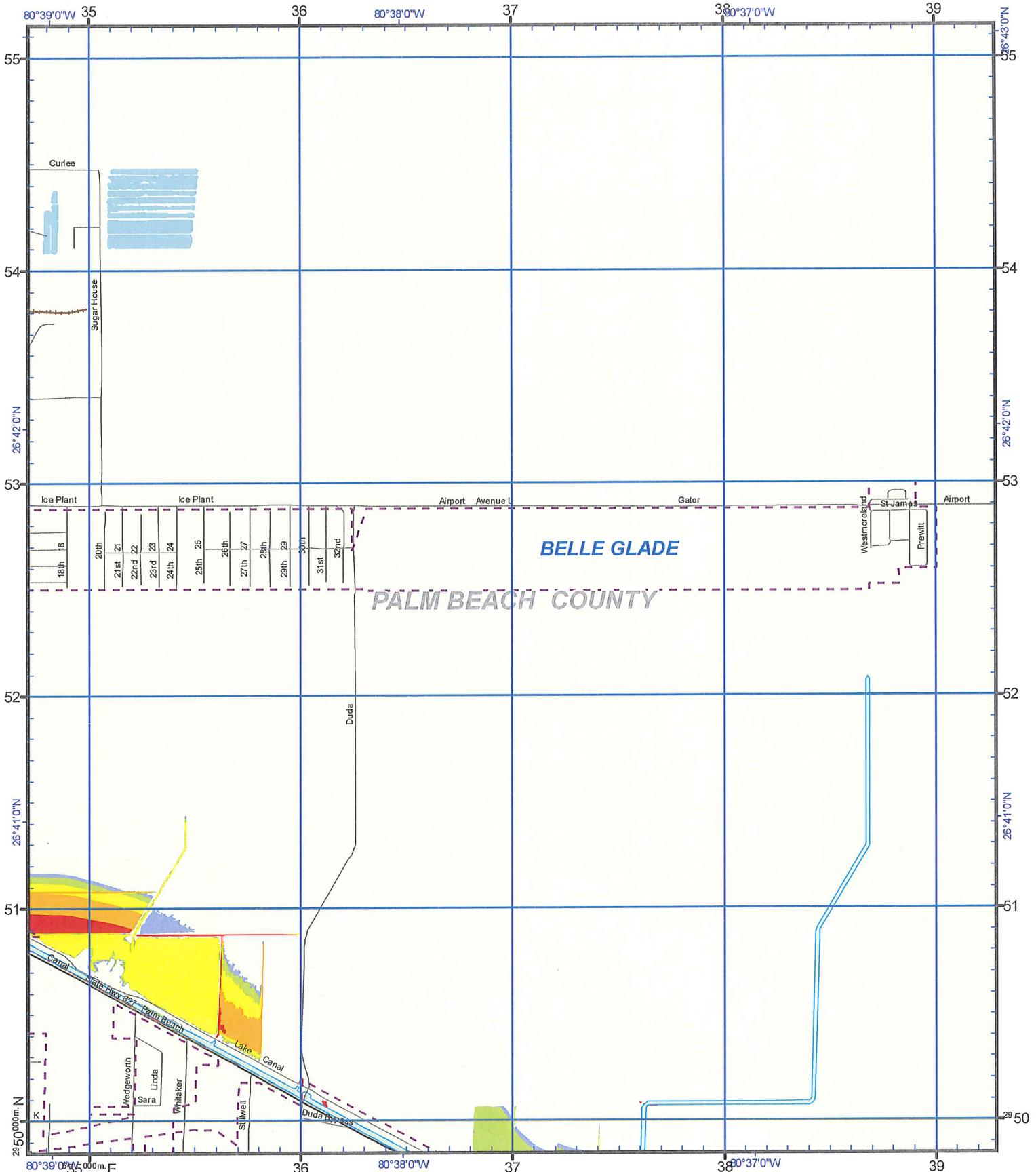
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 3452
Map Plate 63



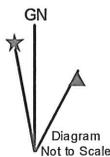


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Produced by Treasure Coast Regional Planning Council for Florida Division of Emergency Management, 2009-2010



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Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- Cat 1
- Cat 2
- Cat 3
- Cat 4
- Cat 5

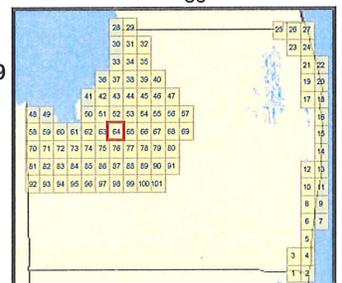
Storm Tide Zones
Palm Beach County, 2009

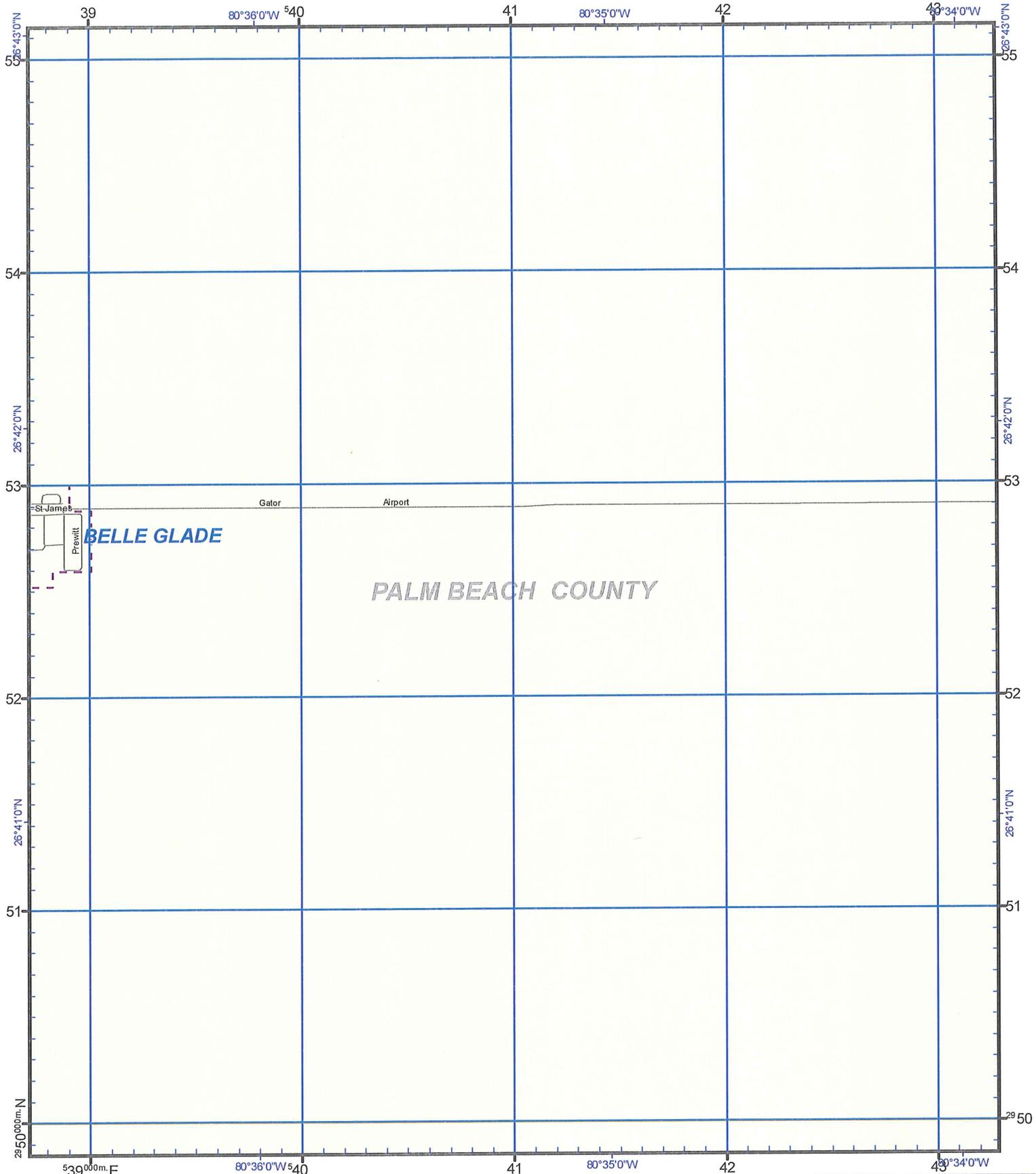
Scale - 1:24,000



USNG Page 17R NK 3852

Map Plate 64



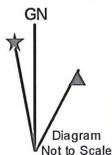


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

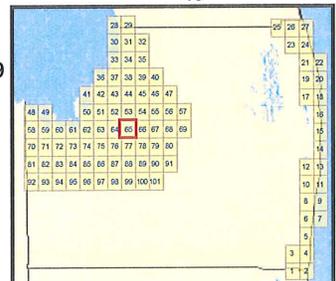
Storm Tide Zones
Palm Beach County, 2009

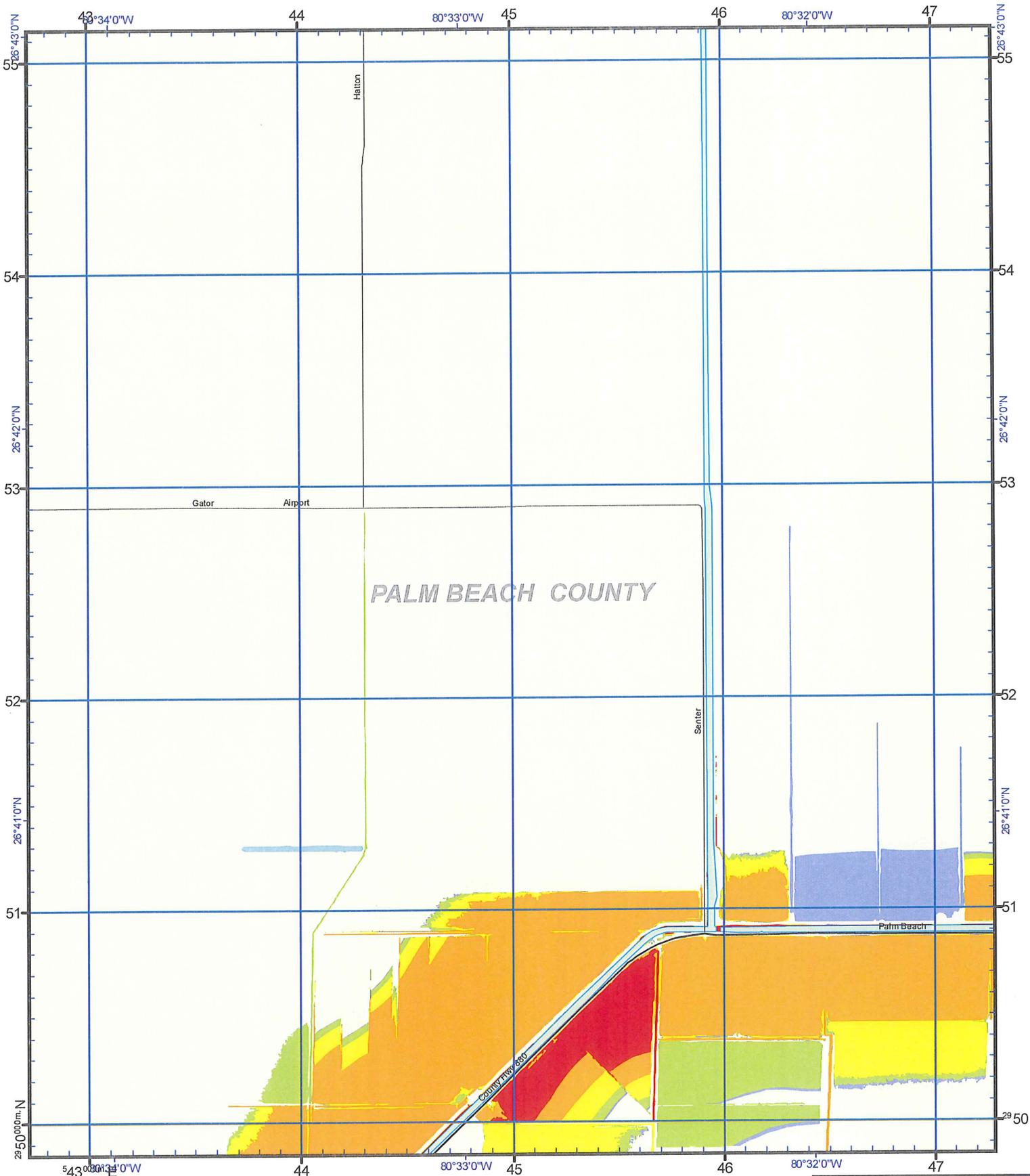
Scale - 1:24,000



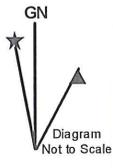
USNG Page 17R NK 4252

Map Plate 65





US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009



Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD83 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

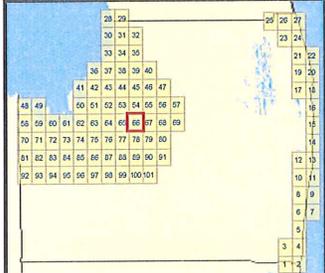
Legend

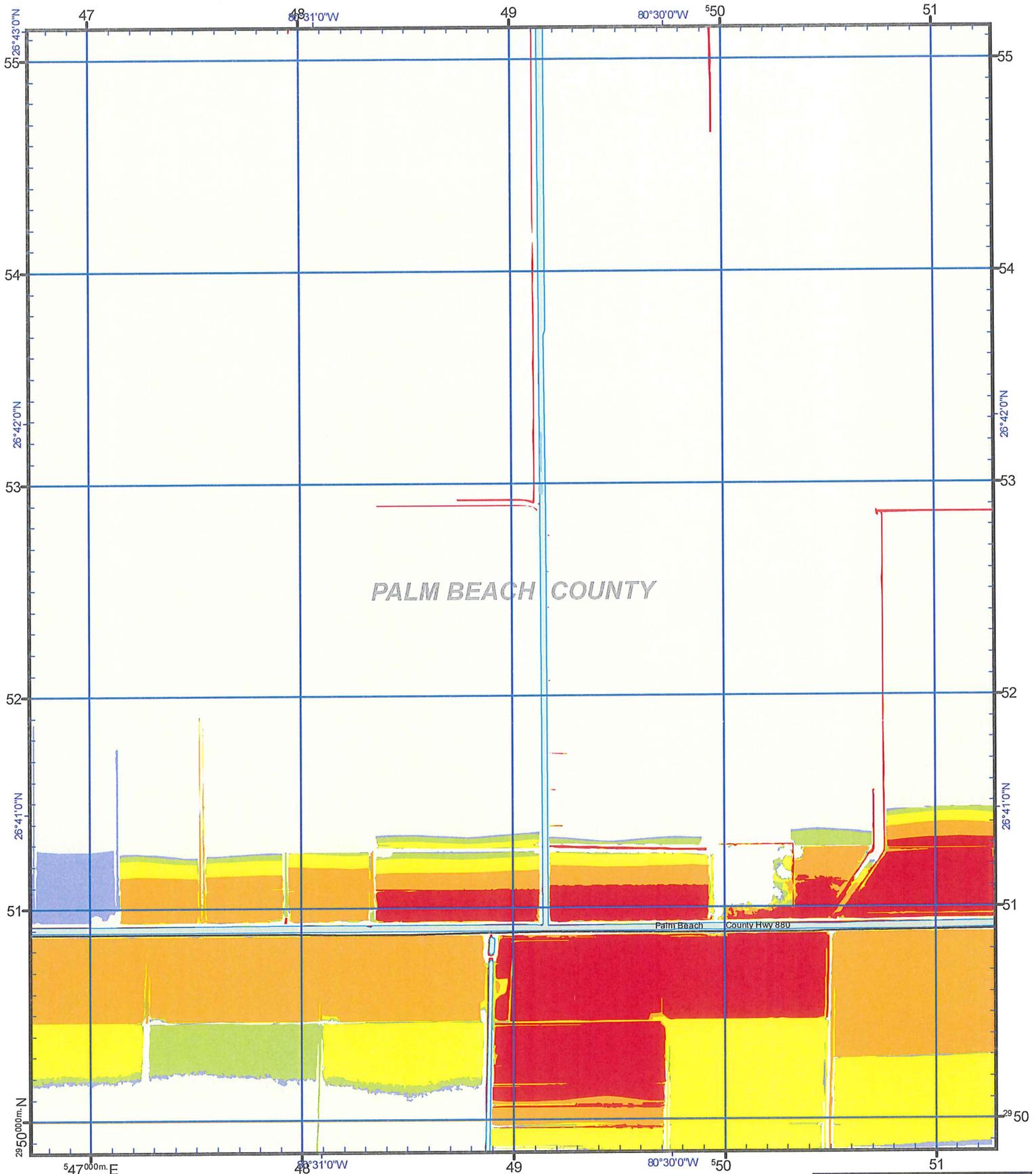
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 4552
Map Plate 66



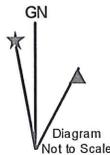


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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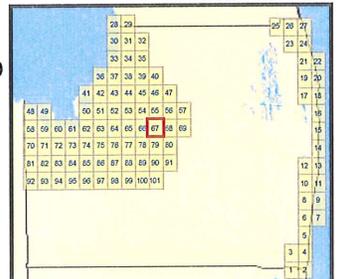
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant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

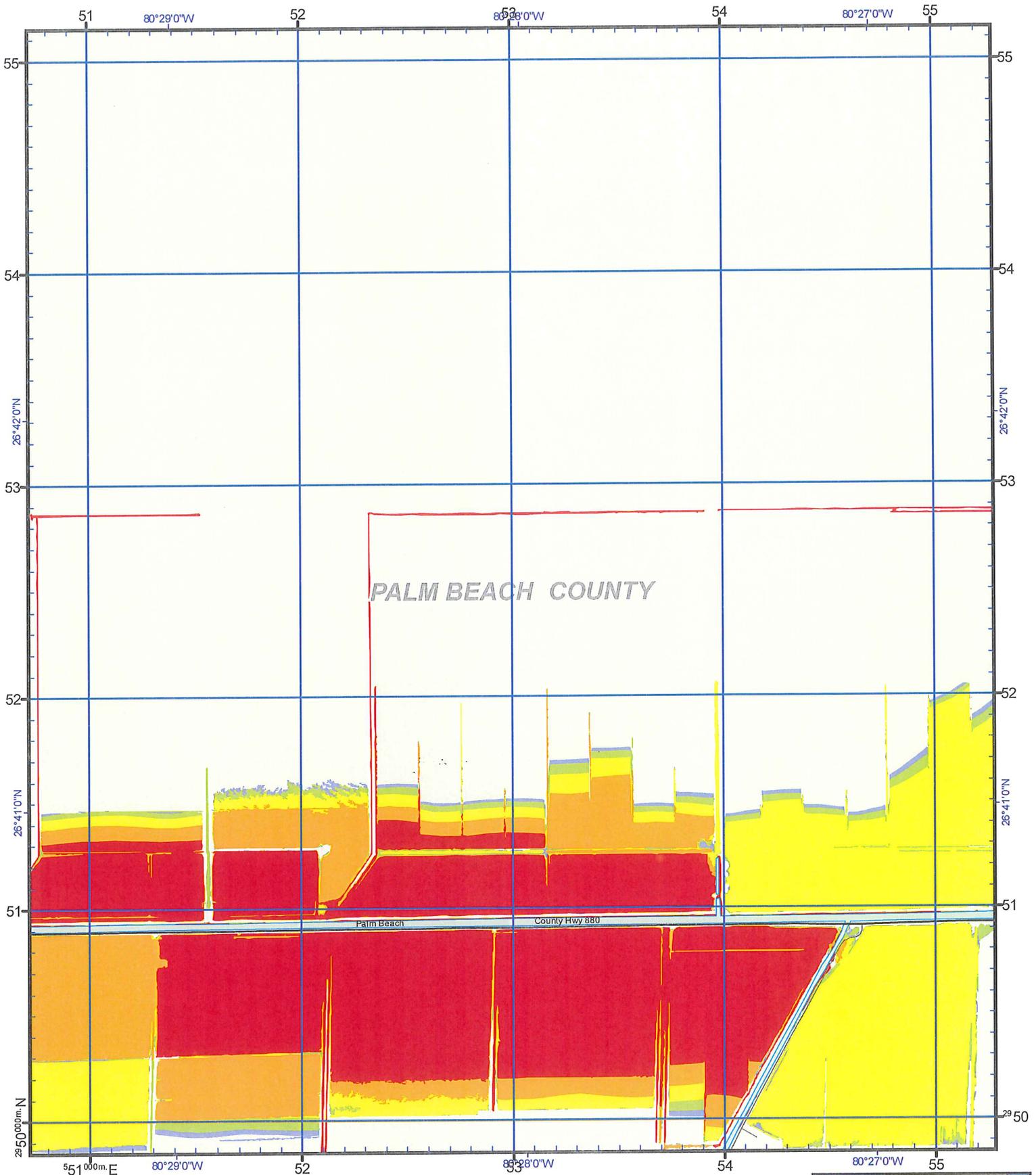
Legend

Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000

USNG Page 17R NK 5051
Map Plate 67





PALM BEACH COUNTY

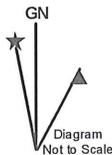
Palm Beach County Hwy 880

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

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD83 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

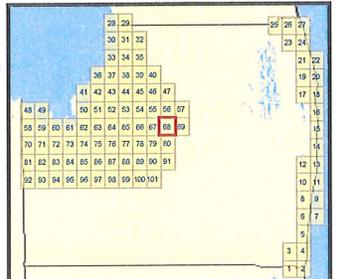
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

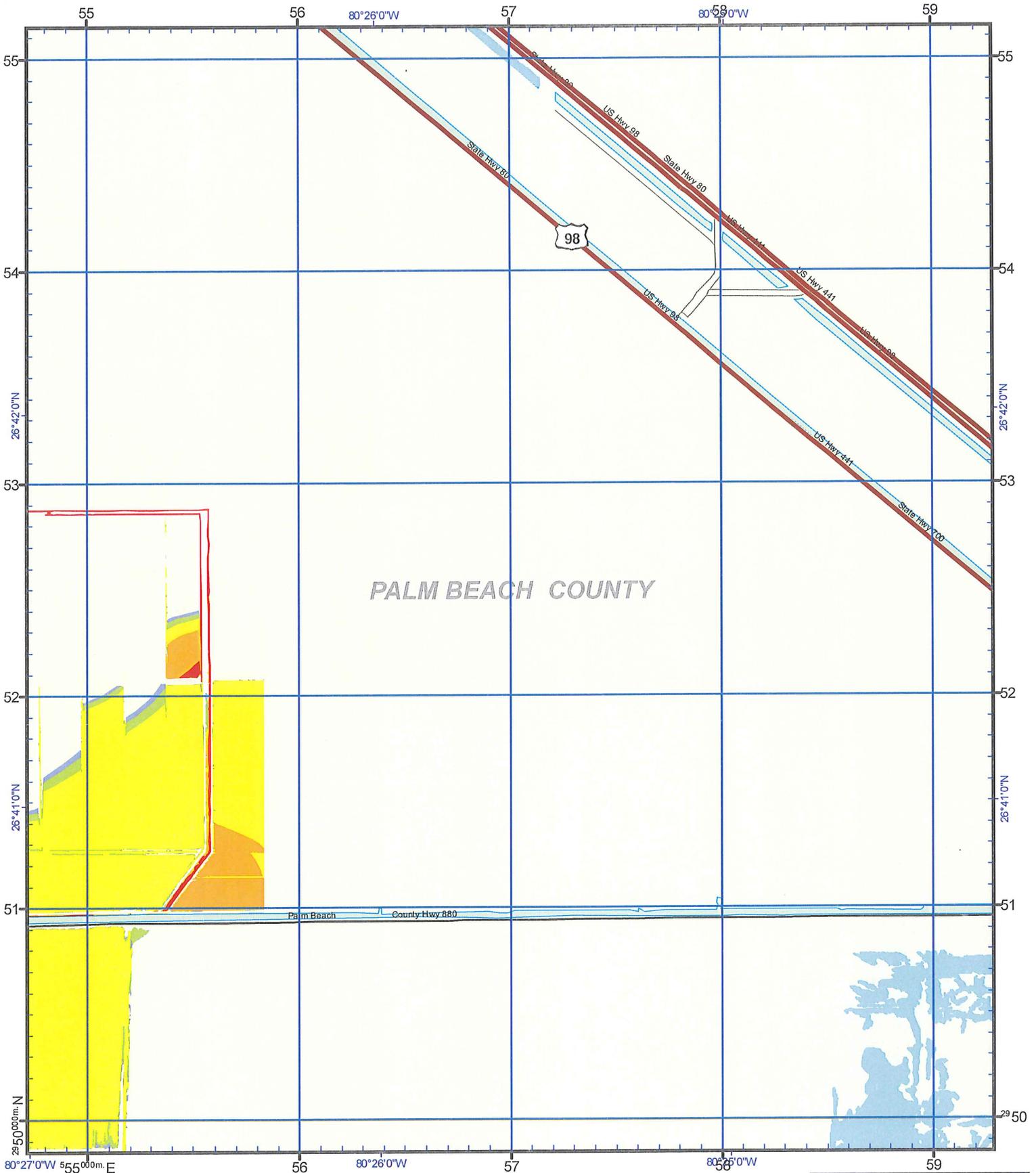
Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000

USNG Page 17R NK 5451
Map Plate 68





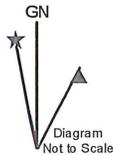
PALM BEACH COUNTY

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

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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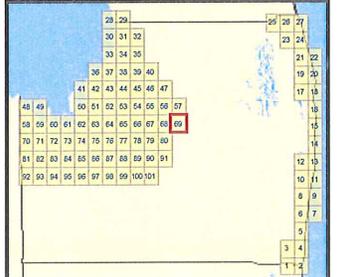


Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant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

Legend

Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 5851
Map Plate 69

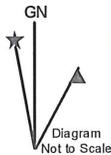




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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management implementation are local responsibilities.
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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. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- | | |
|---------------------|-------|
| Hospital | Cat 1 |
| Points of Reference | Cat 2 |
| Evacuation Route | Cat 3 |
| City Limits | Cat 4 |
| Lakes | Cat 5 |
| Major Water | |

Storm Tide Zones

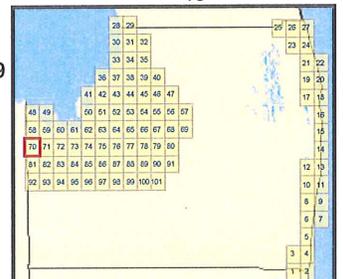
Palm Beach County, 2009

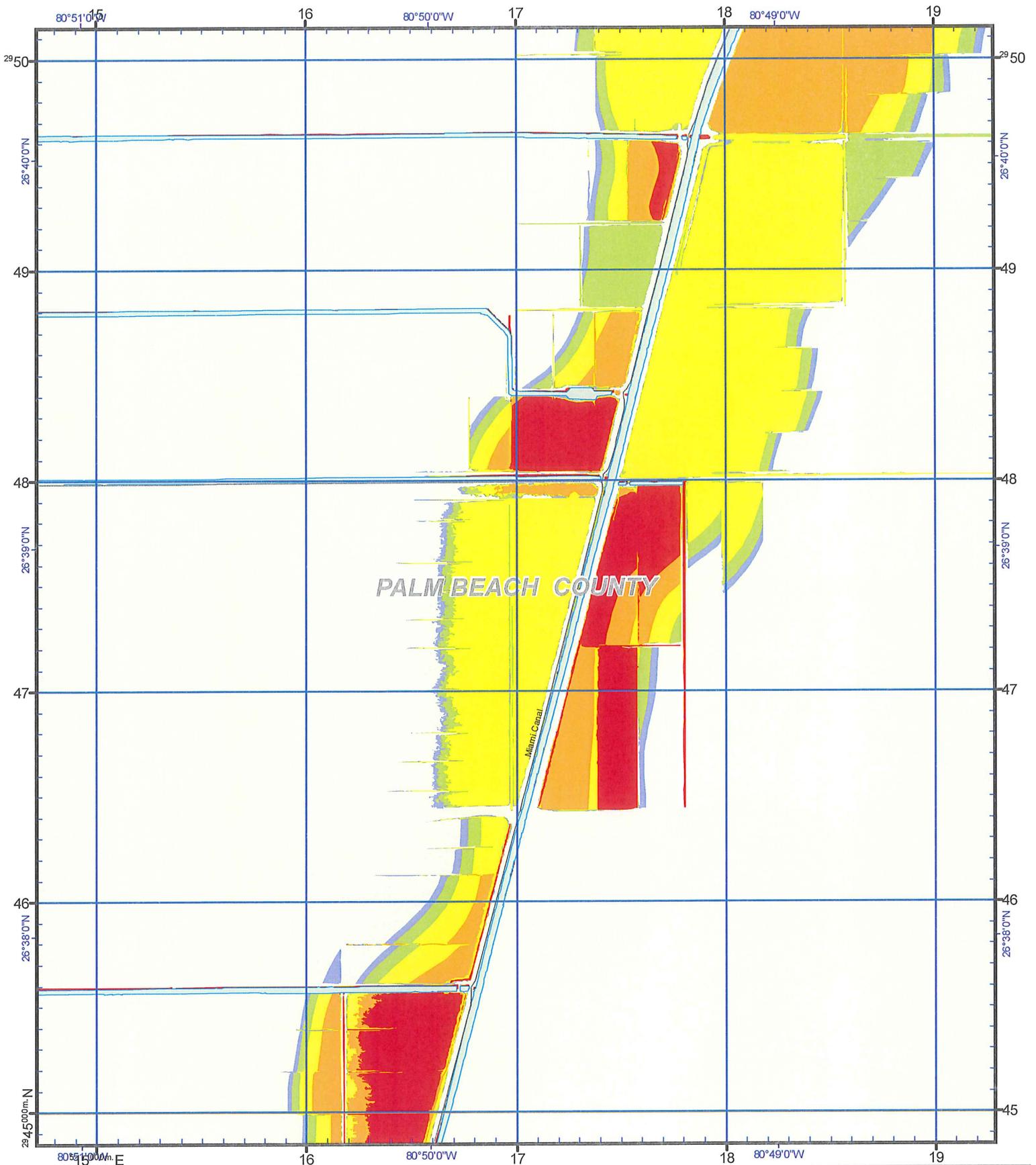
Scale - 1:24,000

0 2,000 Feet

USNG Page 17R NK 1448

Map Plate 70



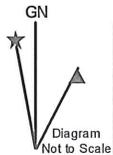


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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management implementation are local responsibilities.
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Produced by Treasure Coast Regional Planning Council for Florida Division of Emergency Management, 2009-2010

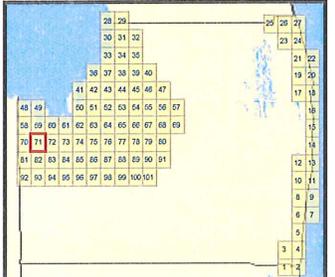


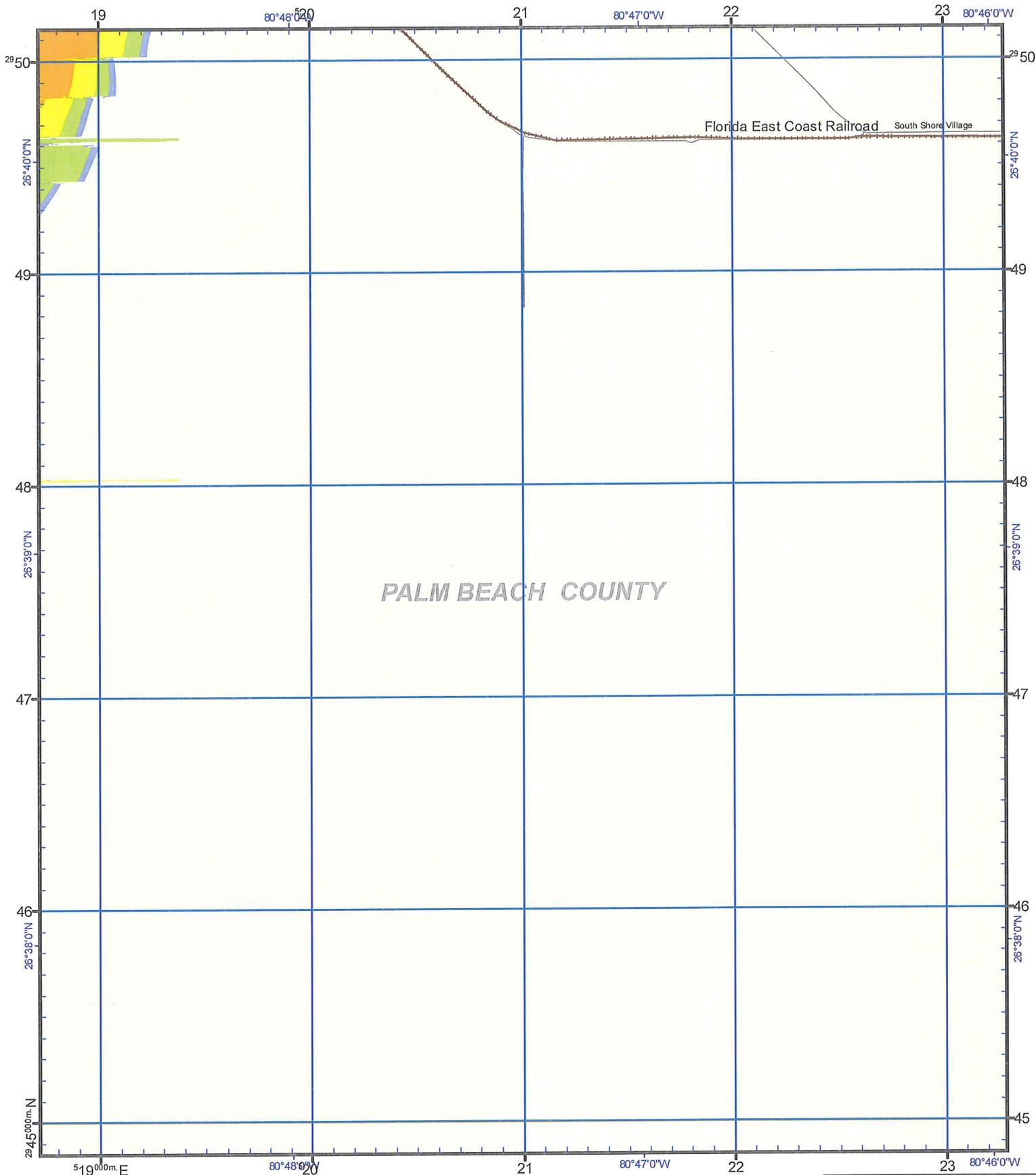
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant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

Legend

Hospital	Points of Reference	Cat 1
Evacuation Route	City Limits	Cat 2
Lakes	Major Water	Cat 3
		Cat 4
		Cat 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 1848
Map Plate 71





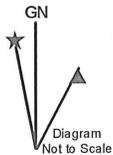
Florida East Coast Railroad South Shore Village

PALM BEACH COUNTY

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

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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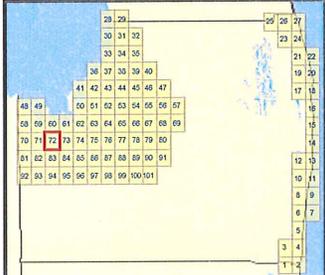


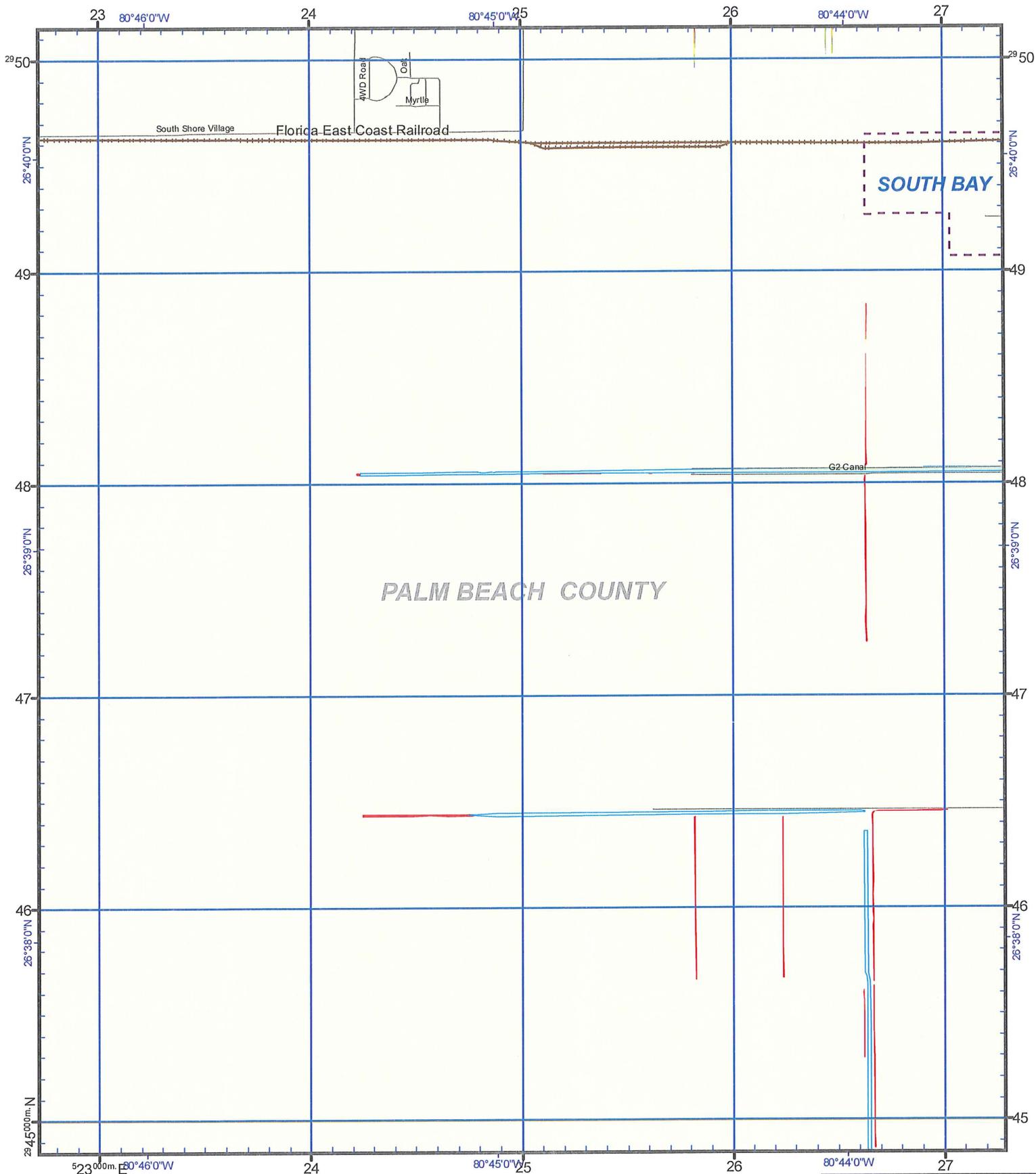
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant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

Legend

Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 2248
Map Plate 72



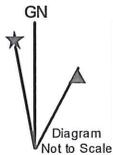


US National Grid
 100,000-m Square ID
NK
 Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
 Page Index by Delta State University 2009

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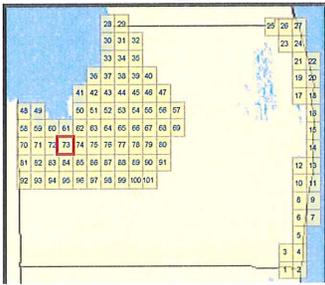
Notes:
 1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
 2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
 3. The Points of Reference are locations determined to be relevant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

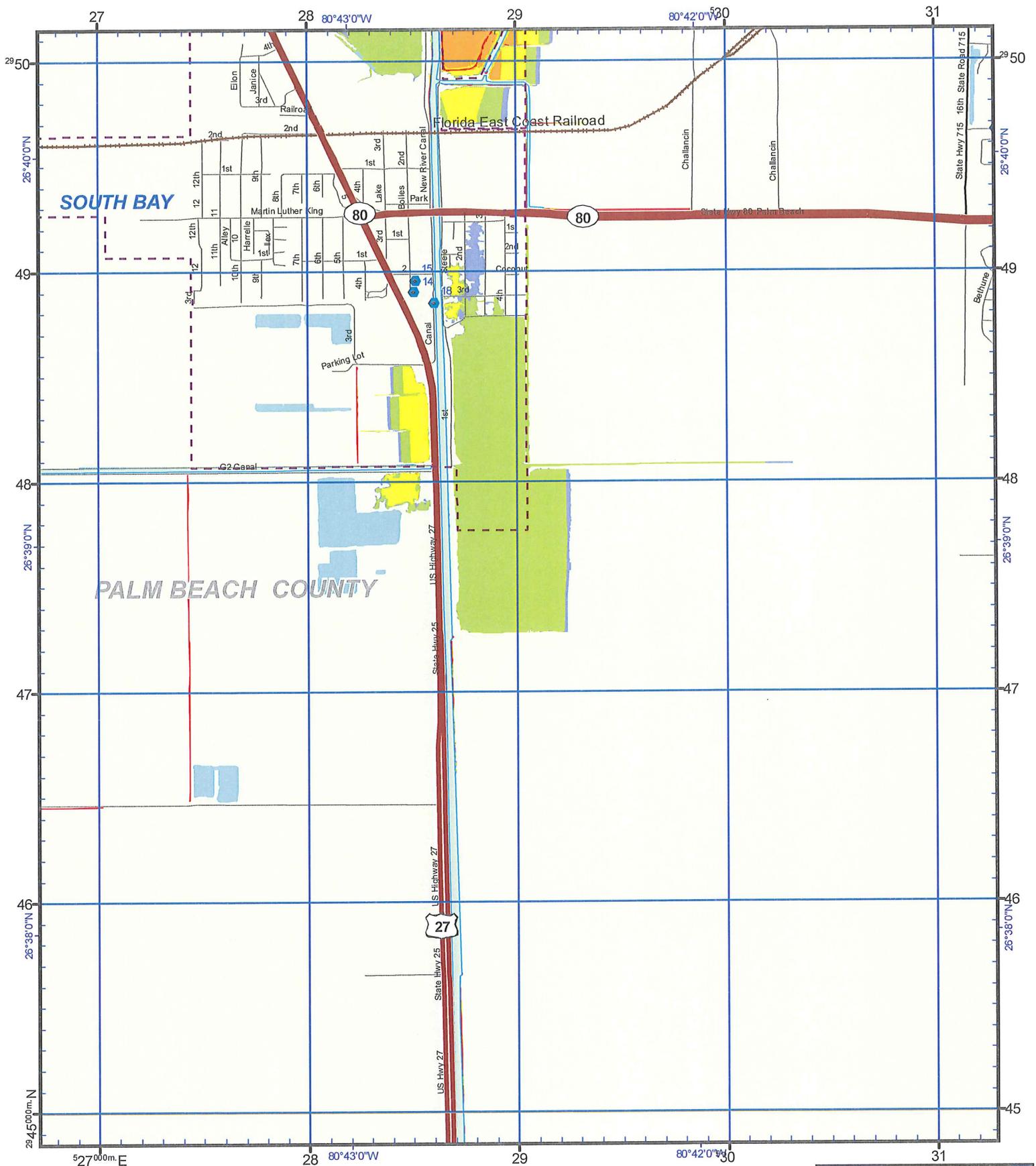
Legend

Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

Storm Tide Zones
 Palm Beach County, 2009
 Scale - 1:24,000

 USNG Page 17R NK 2648
 Map Plate 73





US National Grid
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:
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2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- Cat**
- 1
- 2
- 3
- 4
- 5

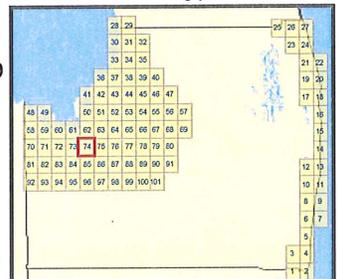
Storm Tide Zones
Palm Beach County, 2009

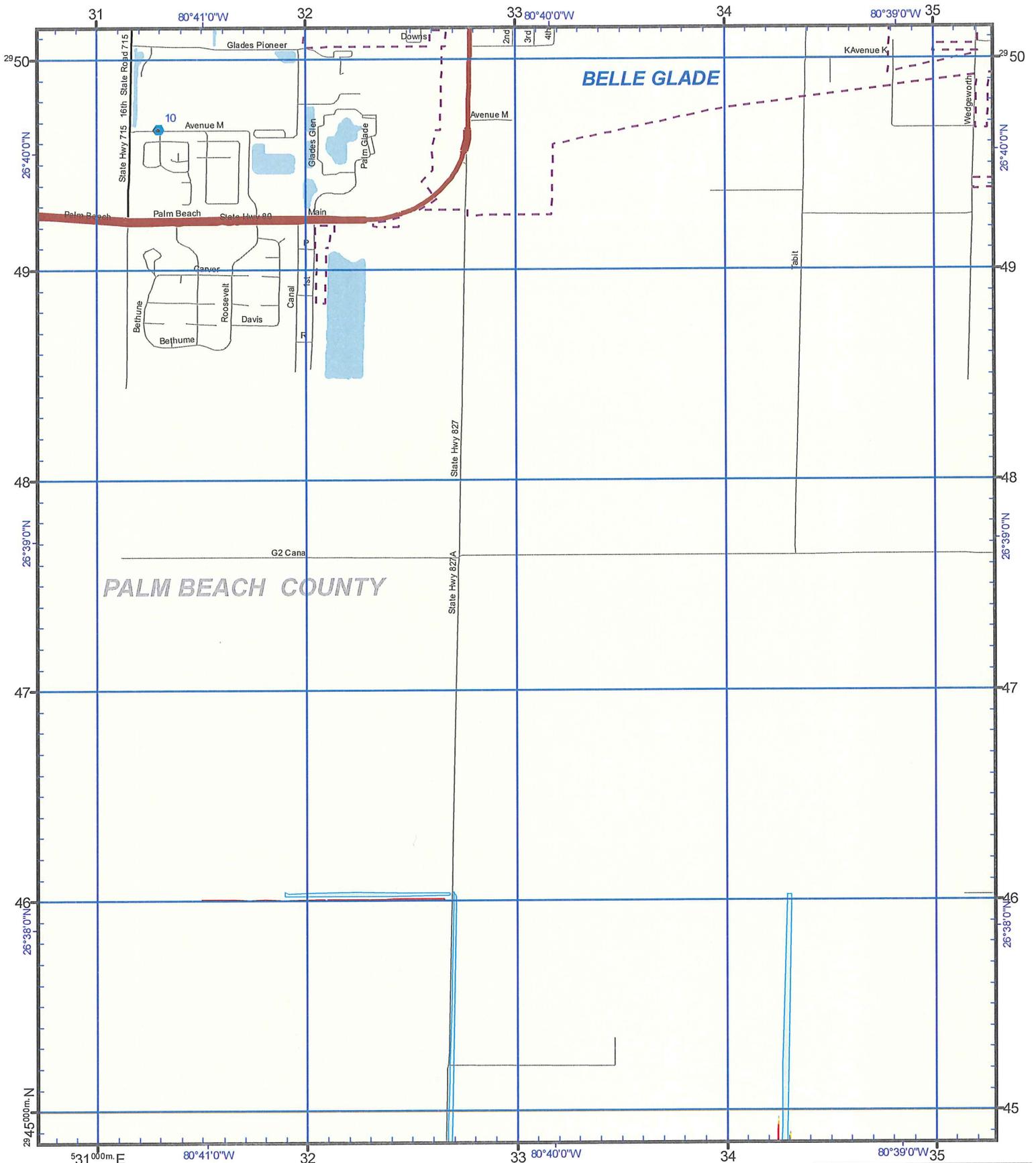
Scale - 1:24,000



USNG Page 17R NK 3048

Map Plate 74



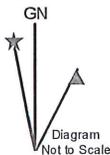


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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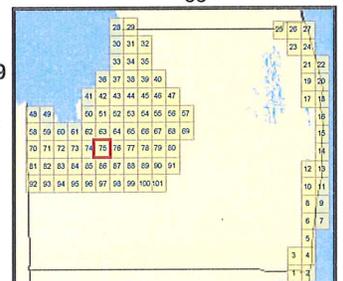


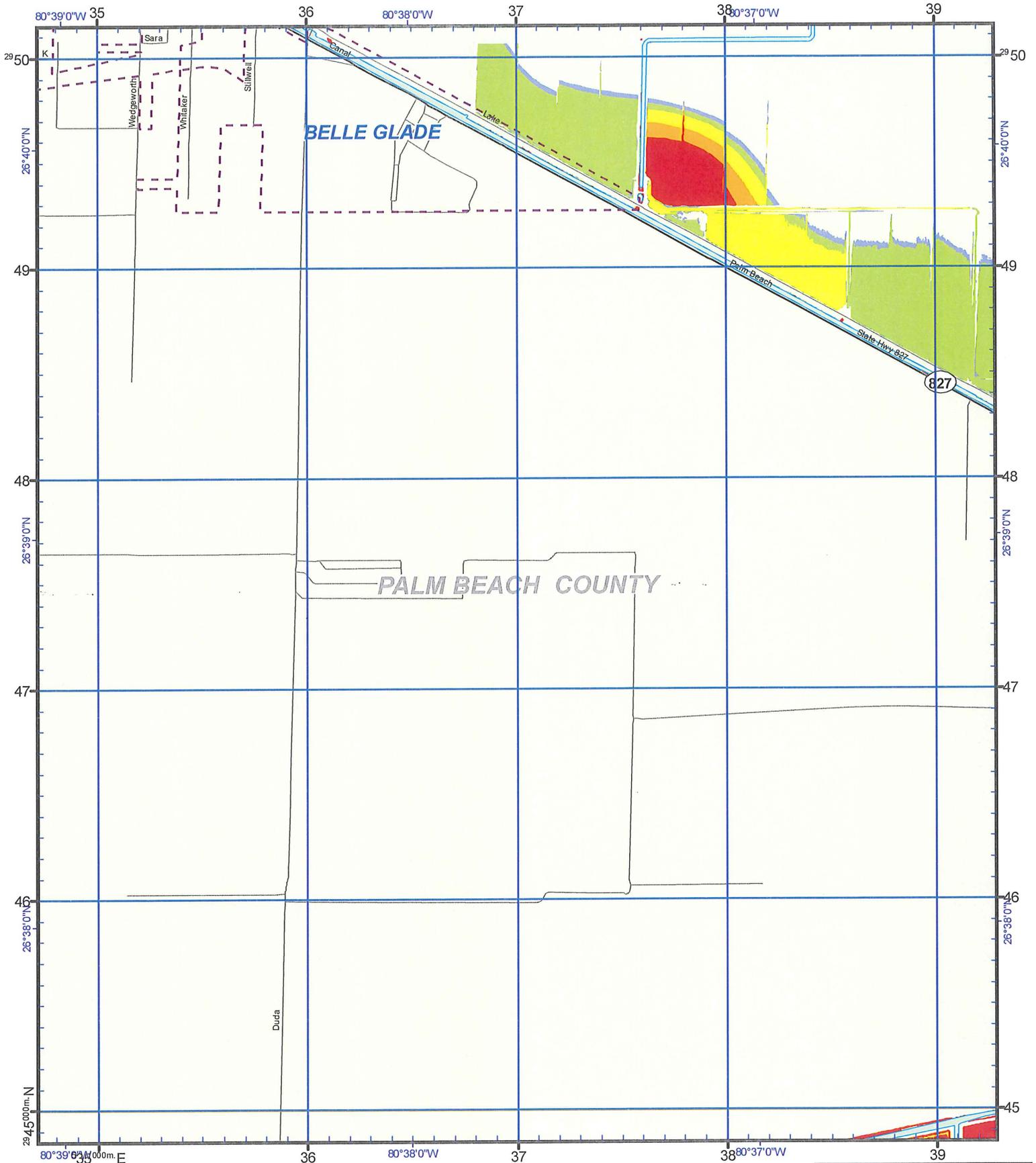
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD83 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

- Legend**
- Hospital
 - Points of Reference
 - Evacuation Route
 - City Limits
 - Lakes
 - Major Water

- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 3448
Map Plate 75

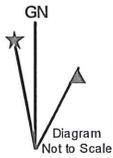




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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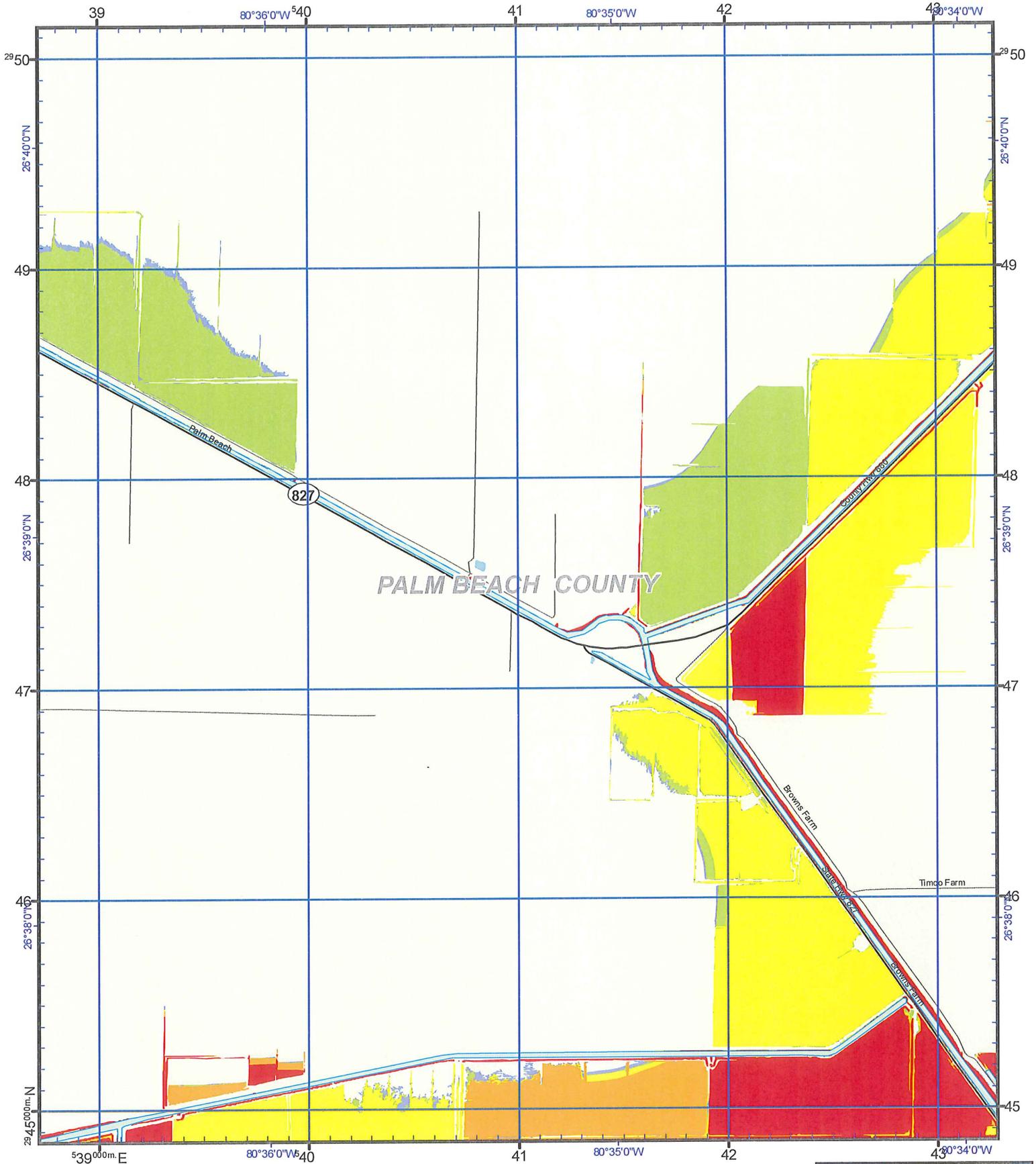
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD83 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

Hospital	Points of Reference	Evacuation Route	City Limits	Lakes	Major Water
Cat 1	Cat 2	Cat 3	Cat 4	Cat 5	

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 3848
Map Plate 76



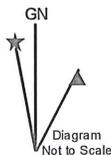


US National Grid
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- Cat 1
- Cat 2
- Cat 3
- Cat 4
- Cat 5

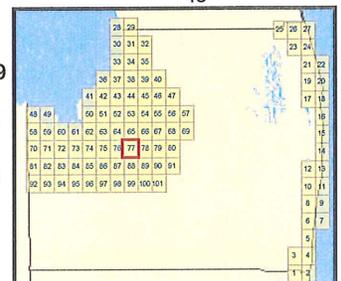
Storm Tide Zones
Palm Beach County, 2009

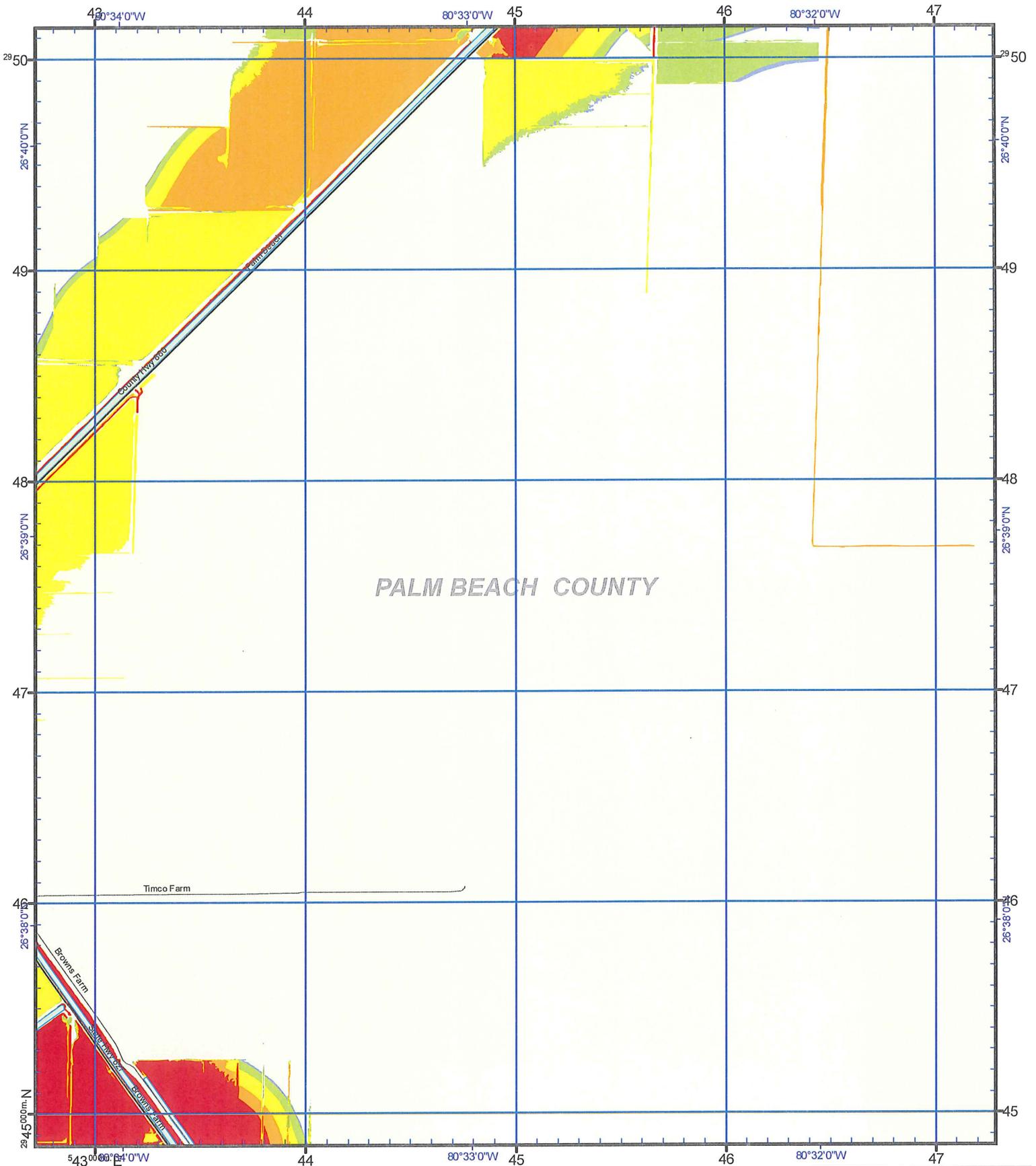
Scale - 1:24,000



USNG Page 17R NK 4248

Map Plate 77



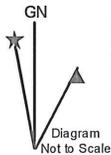


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:

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2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
 - Points of Reference
 - Evacuation Route
 - City Limits
 - Lakes
 - Major Water
- | | |
|--|-------|
| | Cat 1 |
| | Cat 2 |
| | Cat 3 |
| | Cat 4 |
| | Cat 5 |

Storm Tide Zones

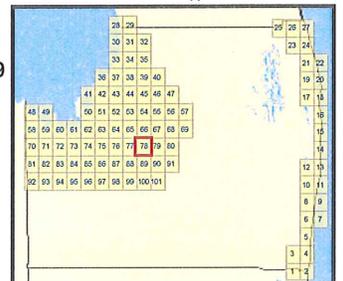
Palm Beach County, 2009

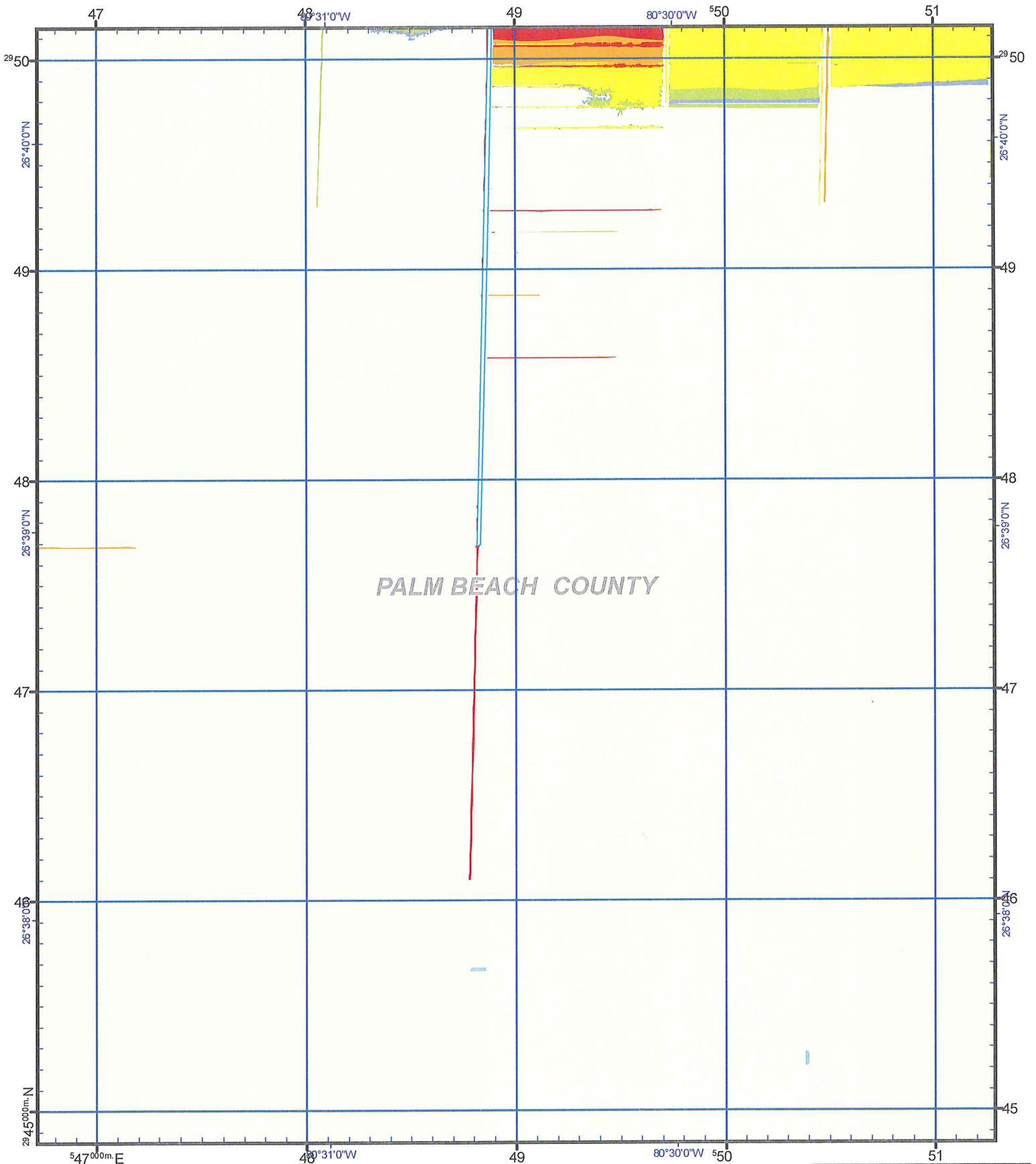
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USNG Page 17R NK 4648

Map Plate 78



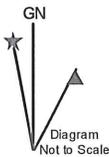


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:

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2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- | | |
|---------------------|-------|
| Hospital | Cat 1 |
| Points of Reference | Cat 2 |
| Evacuation Route | Cat 3 |
| City Limits | Cat 4 |
| Lakes | Cat 5 |
| Major Water | |

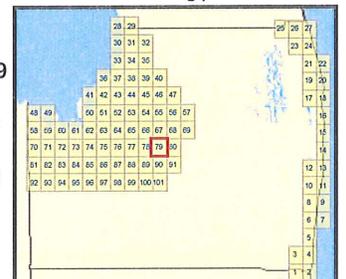
Storm Tide Zones
Palm Beach County, 2009

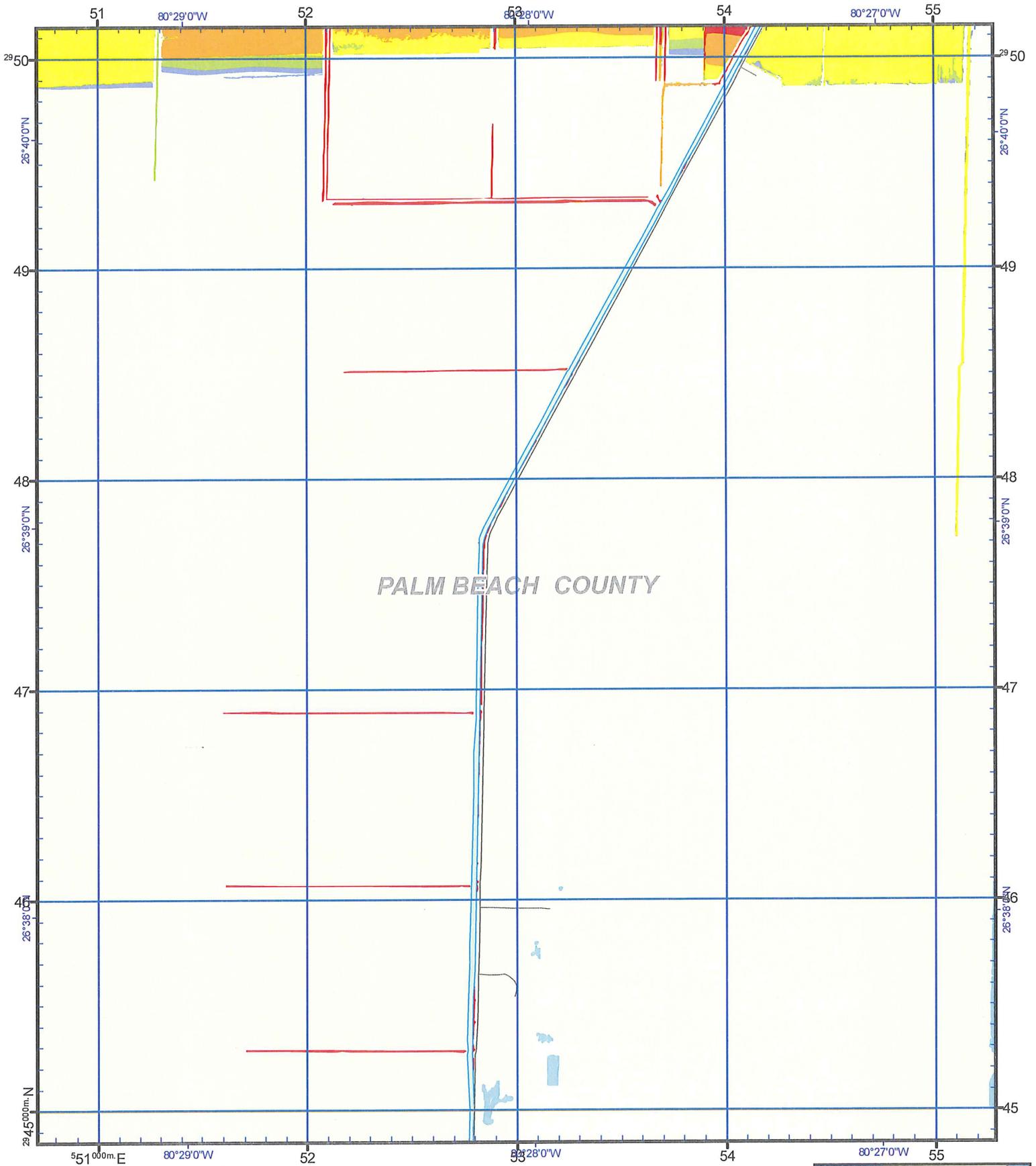
Scale - 1:24,000



USNG Page 17R NK 5048

Map Plate 79





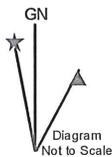
PALM BEACH COUNTY

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

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:

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2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

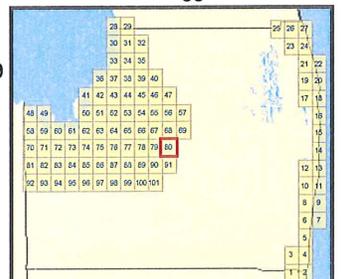
Storm Tide Zones
Palm Beach County, 2009

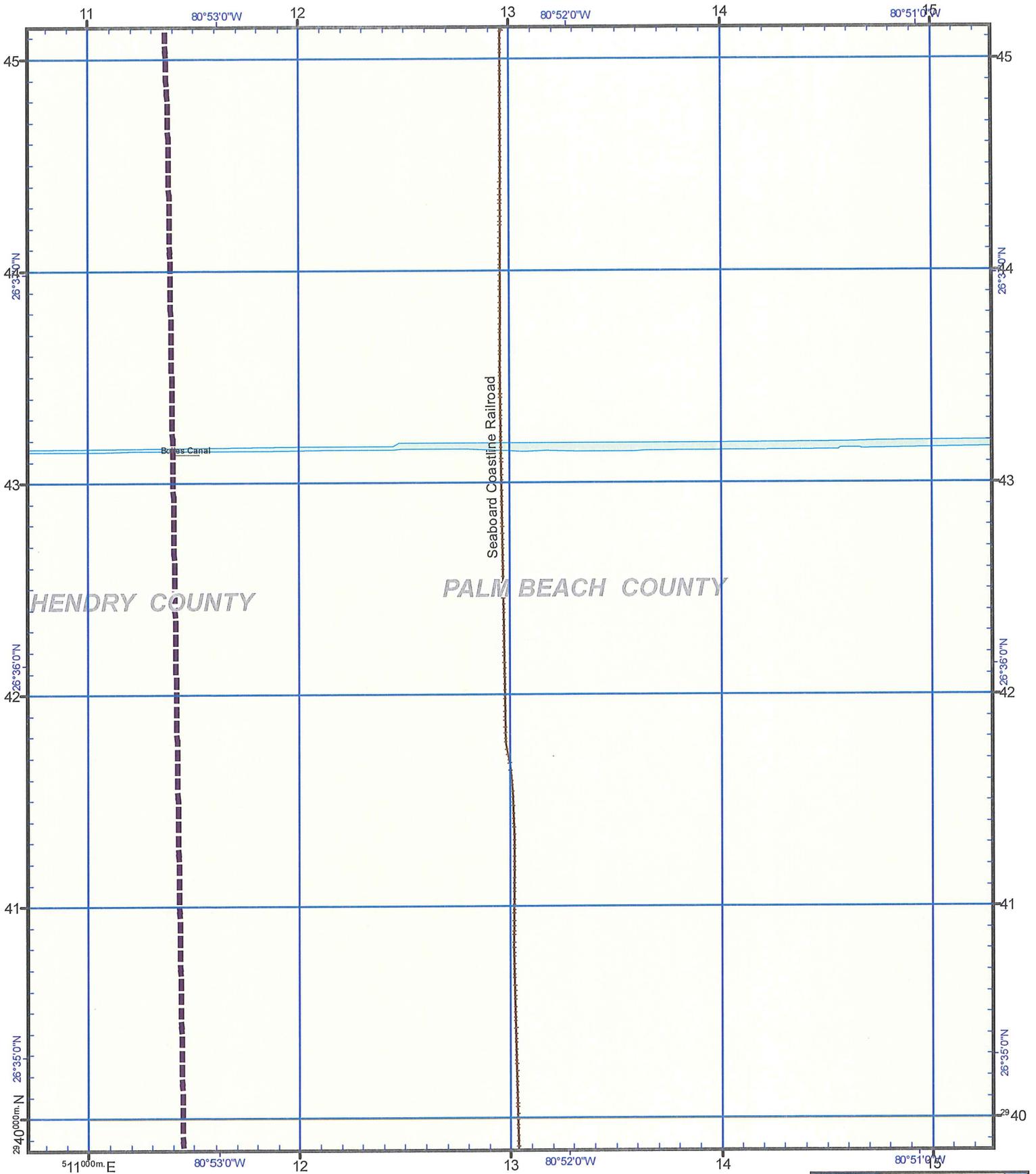
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USNG Page 17R NK 5248

Map Plate 80



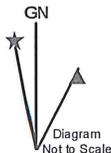


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:

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2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations delineated to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

Storm Tide Zones

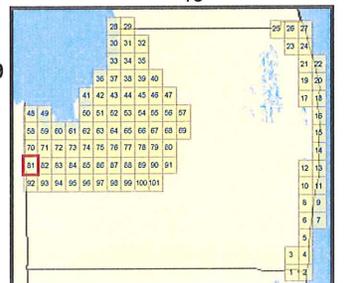
Palm Beach County, 2009

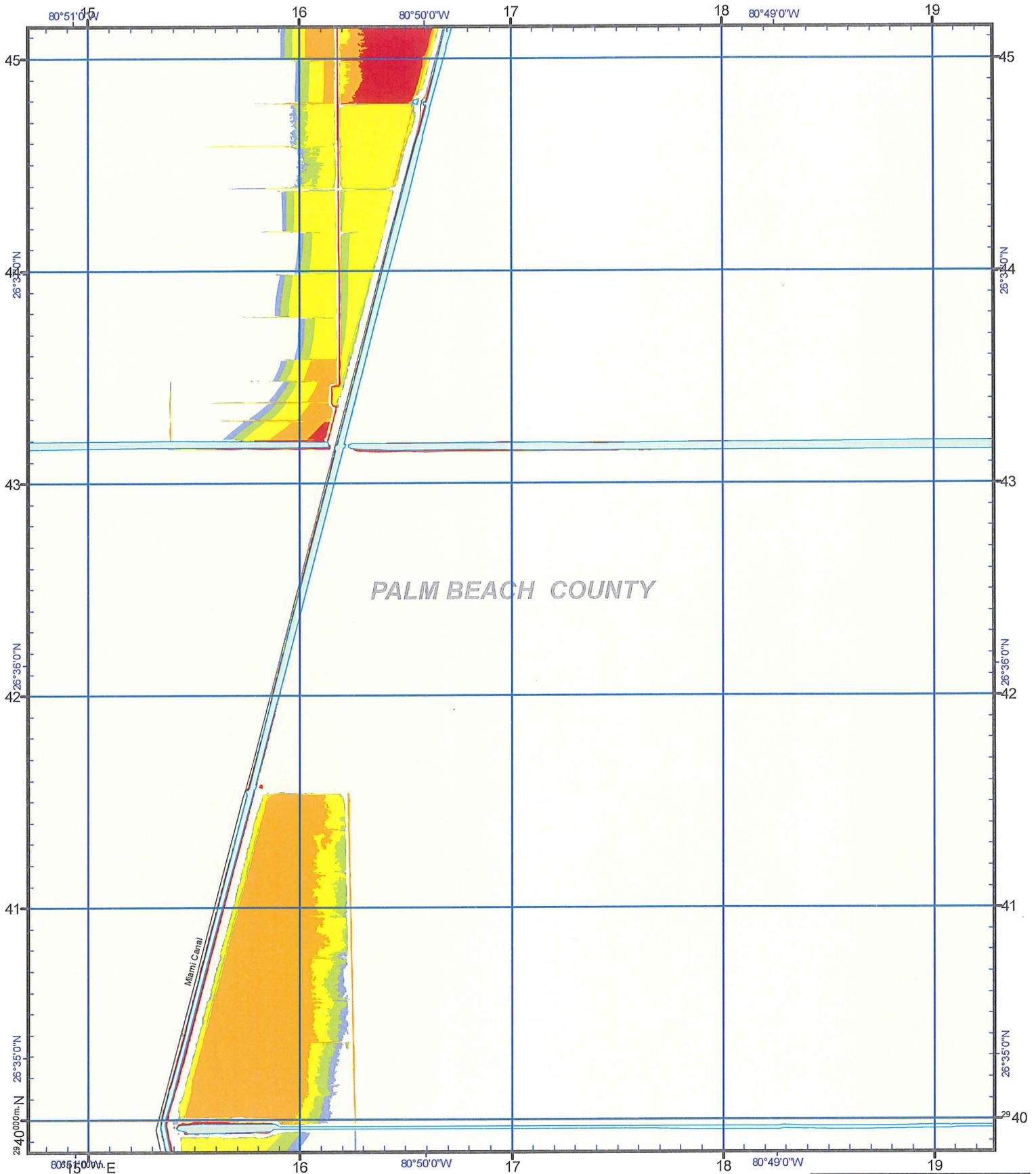
Scale - 1:24,000



USNG Page 17R NK 1440

Map Plate 81





PALM BEACH COUNTY

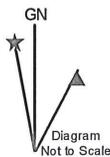
Miami Canal

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

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Produced by Treasure Coast Regional Planning Council for Florida Division of Emergency Management, 2009-2010

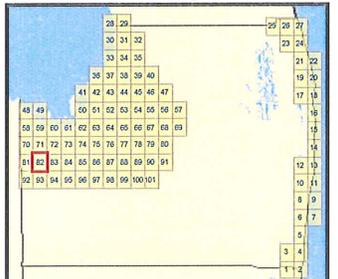


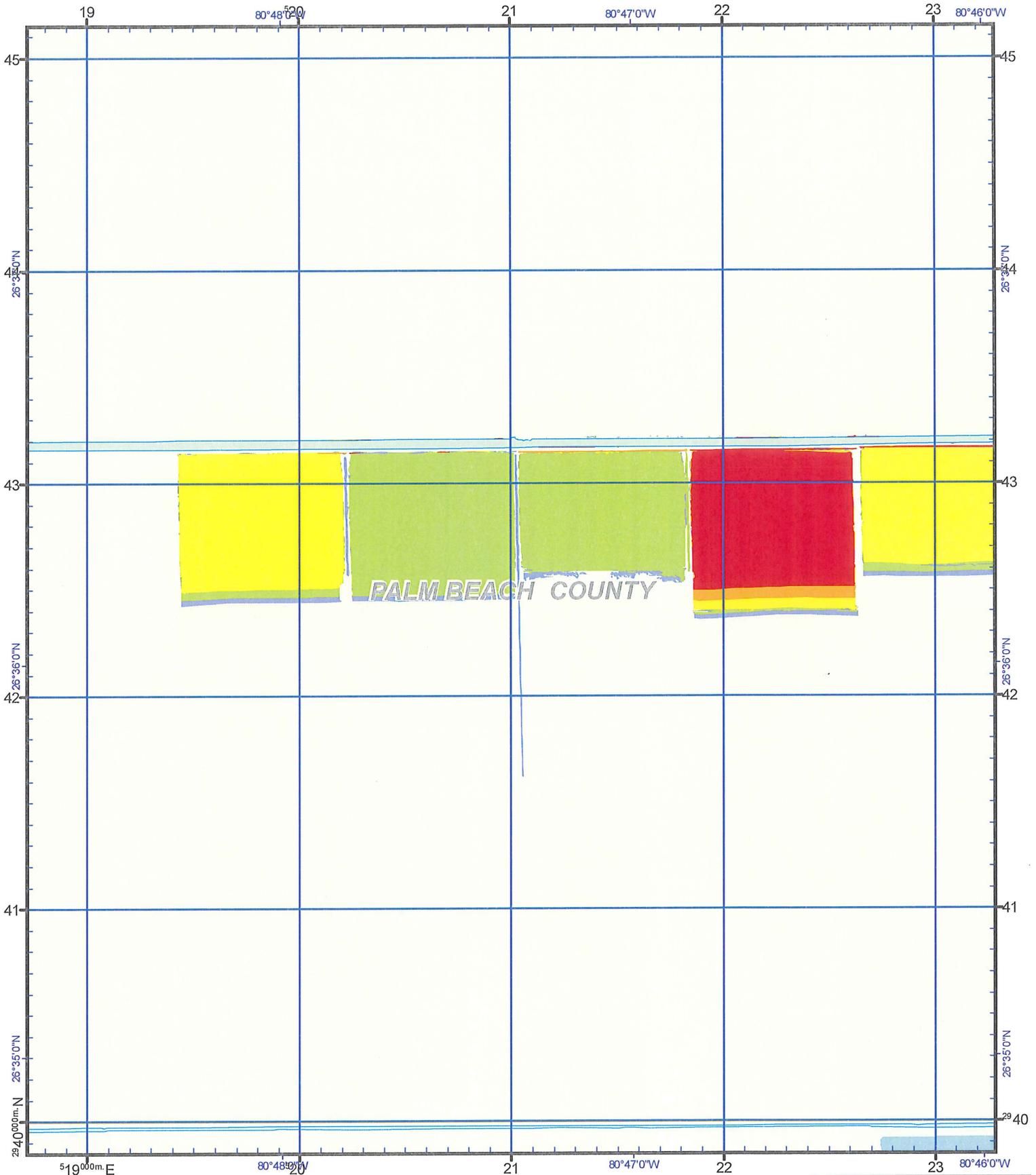
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD83 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

- Legend**
- Hospital
 - Points of Reference
 - Evacuation Route
 - City Limits
 - Lakes
 - Major Water

- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 1540
Map Plate 82





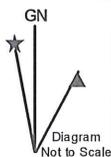
US National Grid
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:
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2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
 - Points of Reference
 - Evacuation Route
 - City Limits
 - Lakes
 - Major Water
- | | |
|--|-------|
| | Cat 1 |
| | Cat 2 |
| | Cat 3 |
| | Cat 4 |
| | Cat 5 |

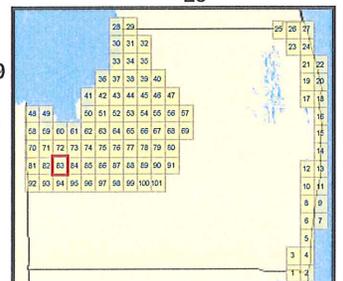
Storm Tide Zones
Palm Beach County, 2009

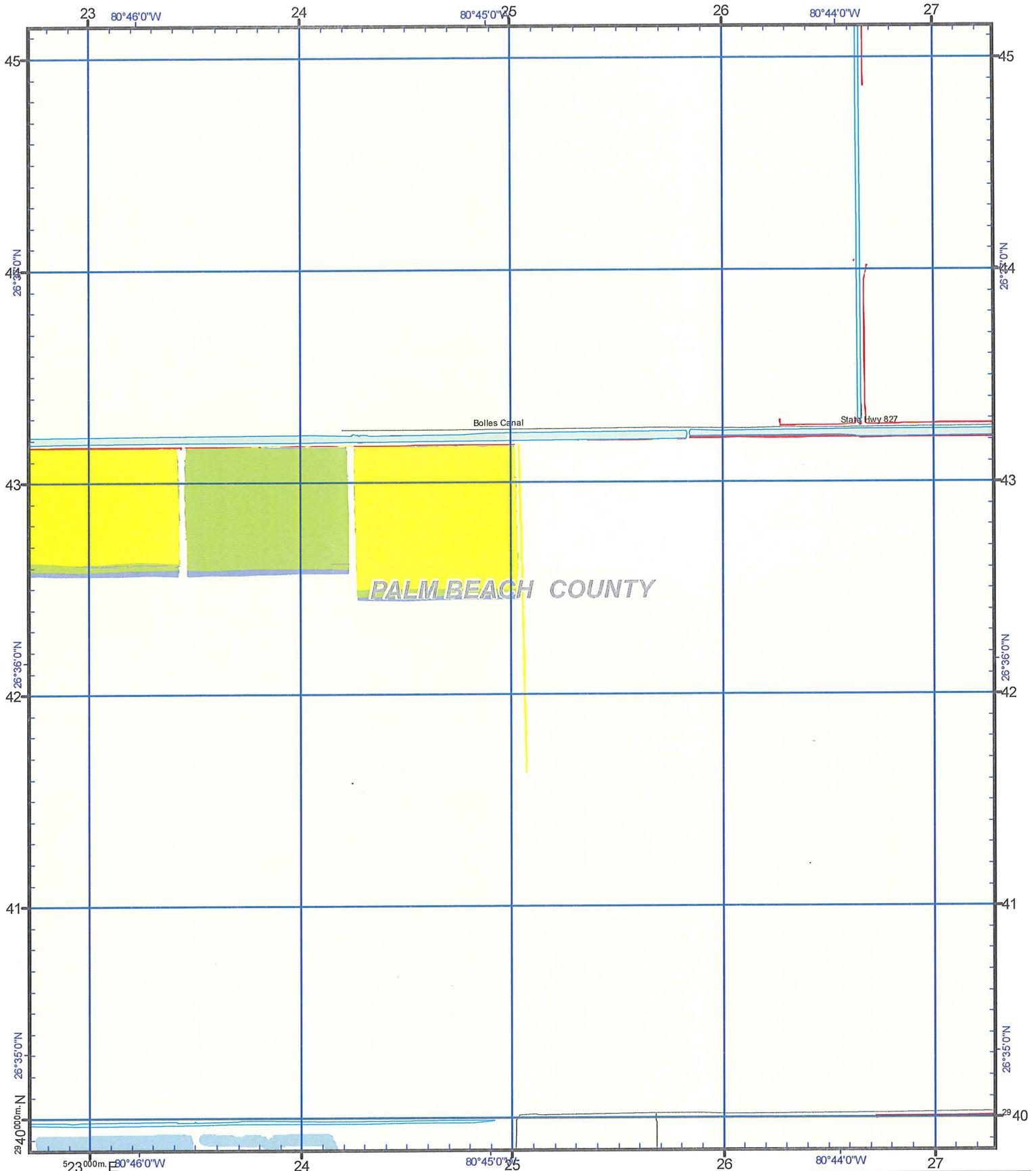
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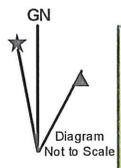
USNG Page 17R NK 2240

Map Plate 83





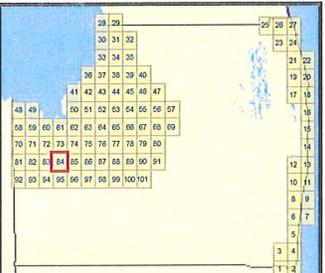
US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

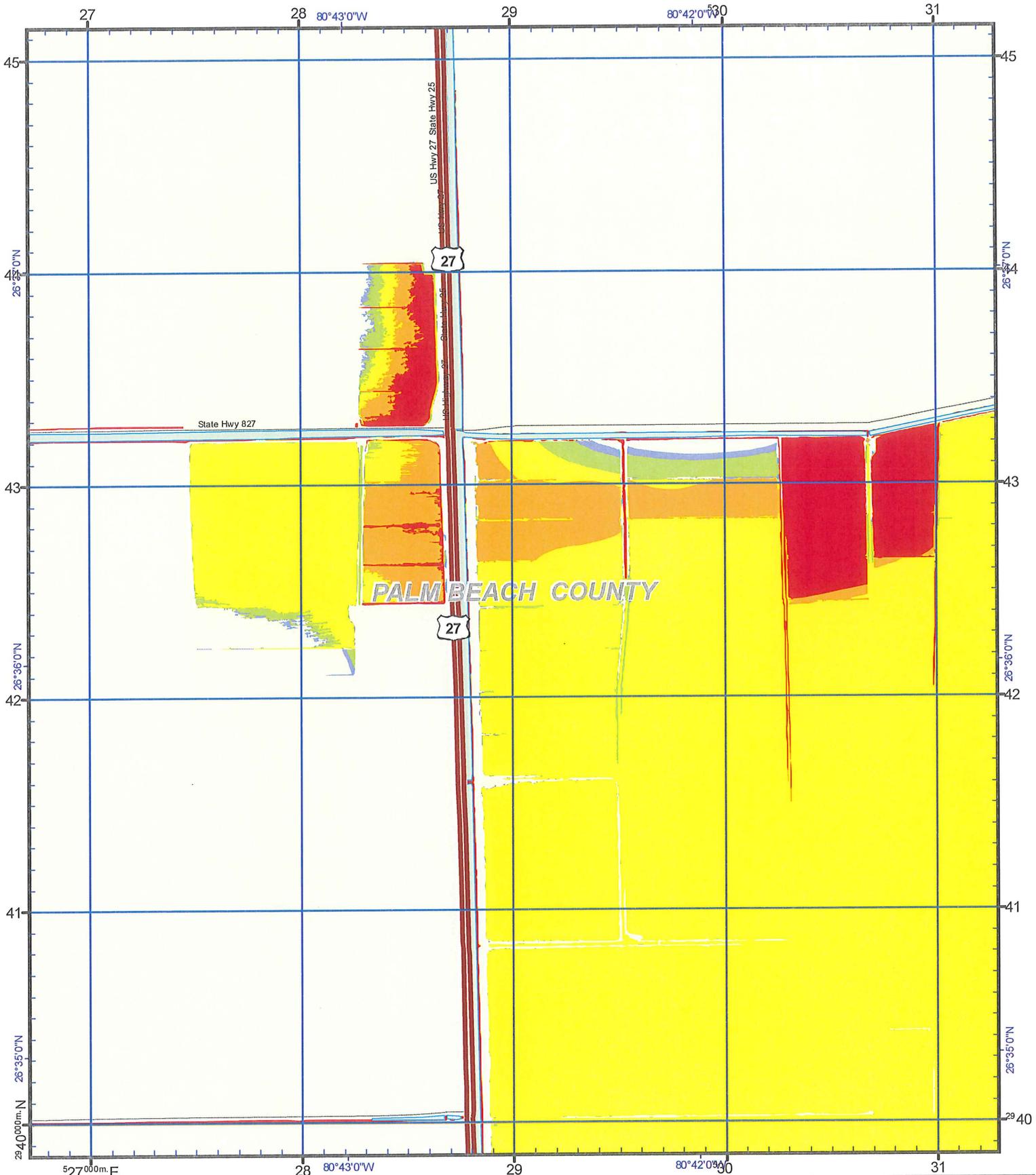


Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant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

Legend	
	Hospital
	Points of Reference
	Evacuation Route
	City Limits
	Lakes
	Major Water
	Cat 1
	Cat 2
	Cat 3
	Cat 4
	Cat 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 2640
Map Plate 84

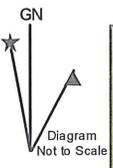




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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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. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

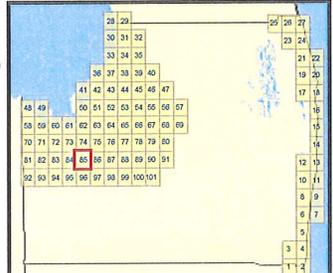
Legend

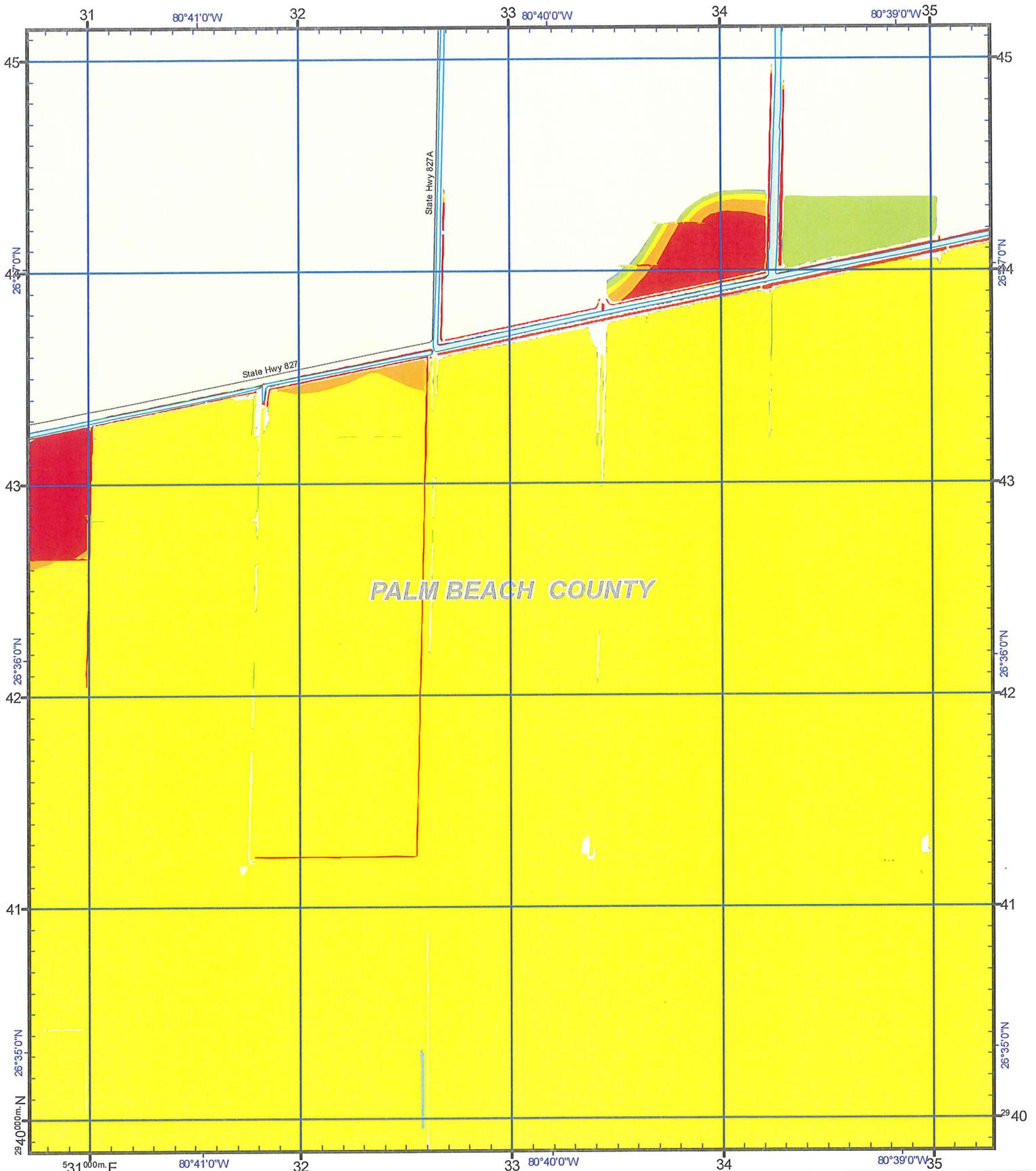
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

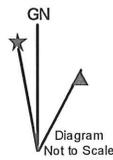
Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 3040
Map Plate 85





PALM BEACH COUNTY

US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R
Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

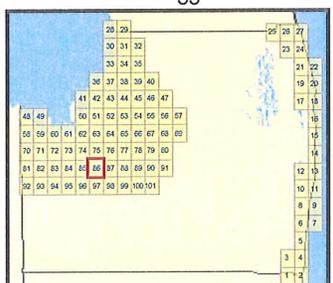


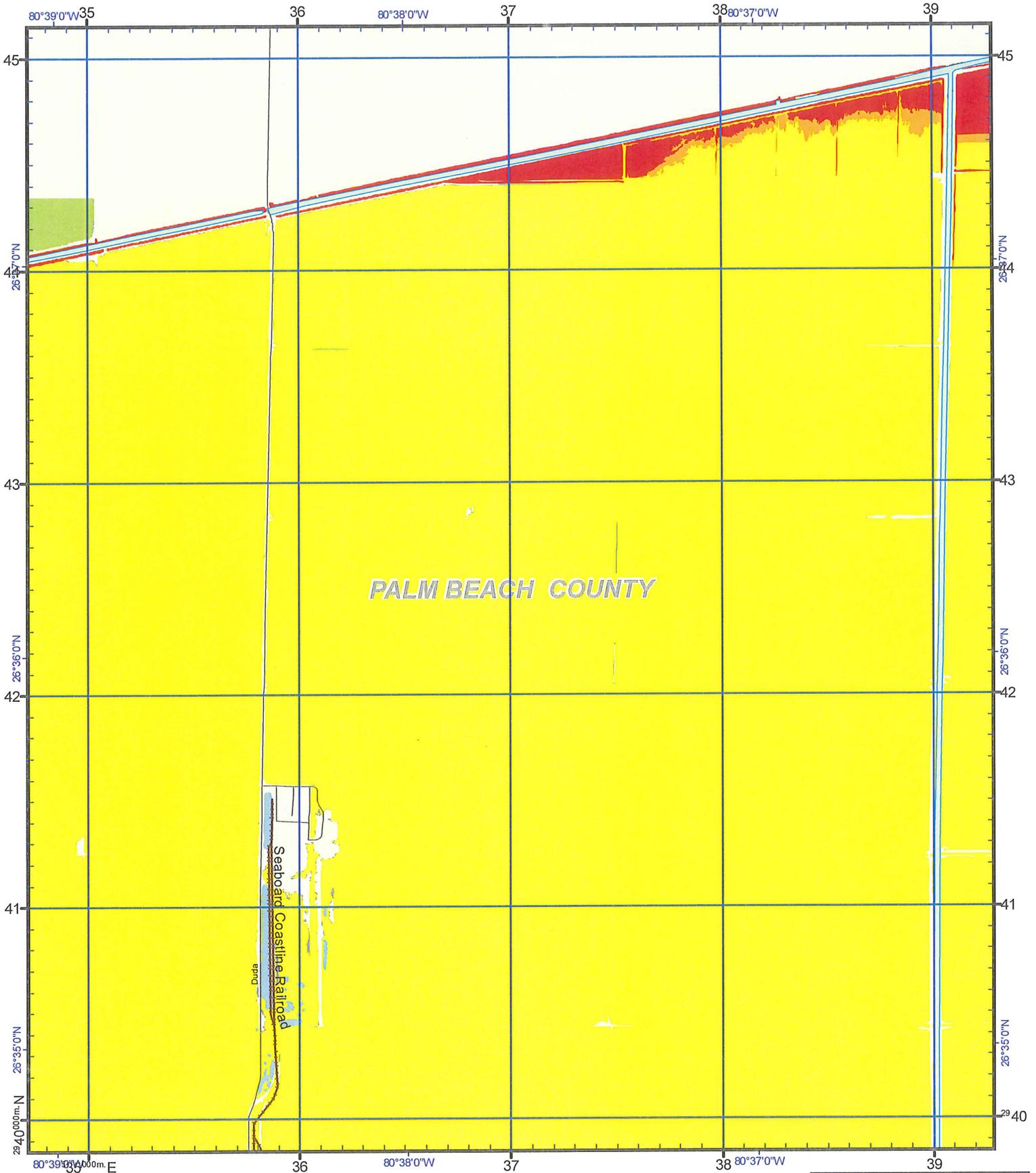
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD85 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

Hospital	Points of Reference	Evacuation Route	City Limits	Lakes	Major Water
Cat 1	Cat 2	Cat 3	Cat 4	Cat 5	

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 3440
Map Plate 86





PALM BEACH COUNTY

Seaboard Coastline Railroad

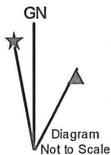
Duda

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

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Produced by Treasure Coast Regional Planning Council for Florida Division of Emergency Management, 2009-2010



- Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
 2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
 3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

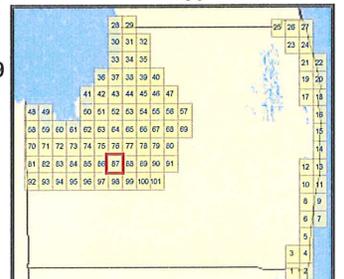
Storm Tide Zones
Palm Beach County, 2009

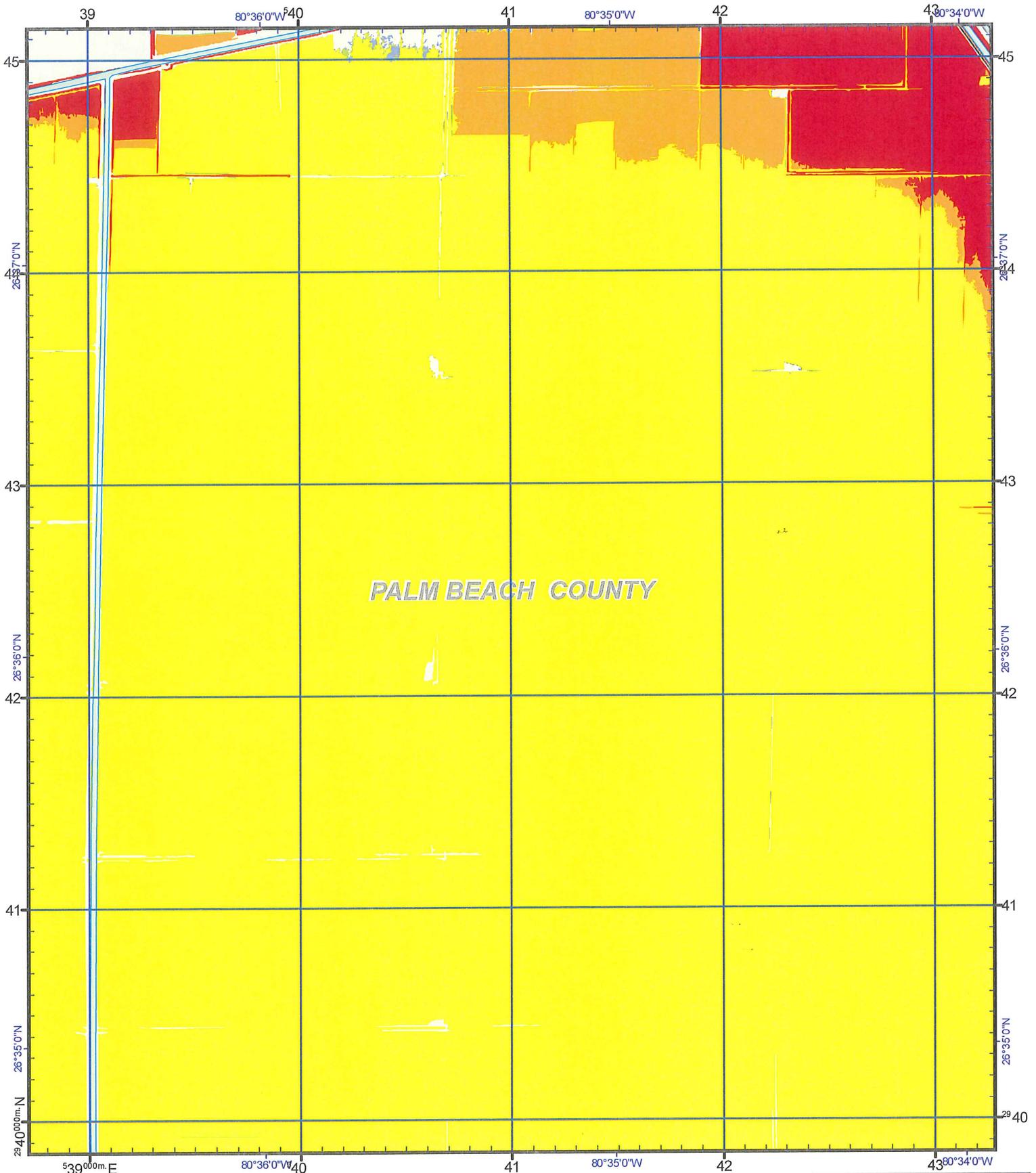
Scale - 1:24,000



USNG Page 17R NK 3840

Map Plate 87



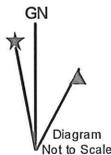


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD89 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- Cat 1
- Cat 2
- Cat 3
- Cat 4
- Cat 5

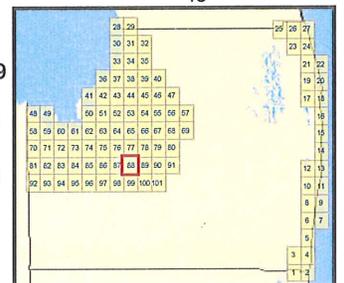
Storm Tide Zones
Palm Beach County, 2009

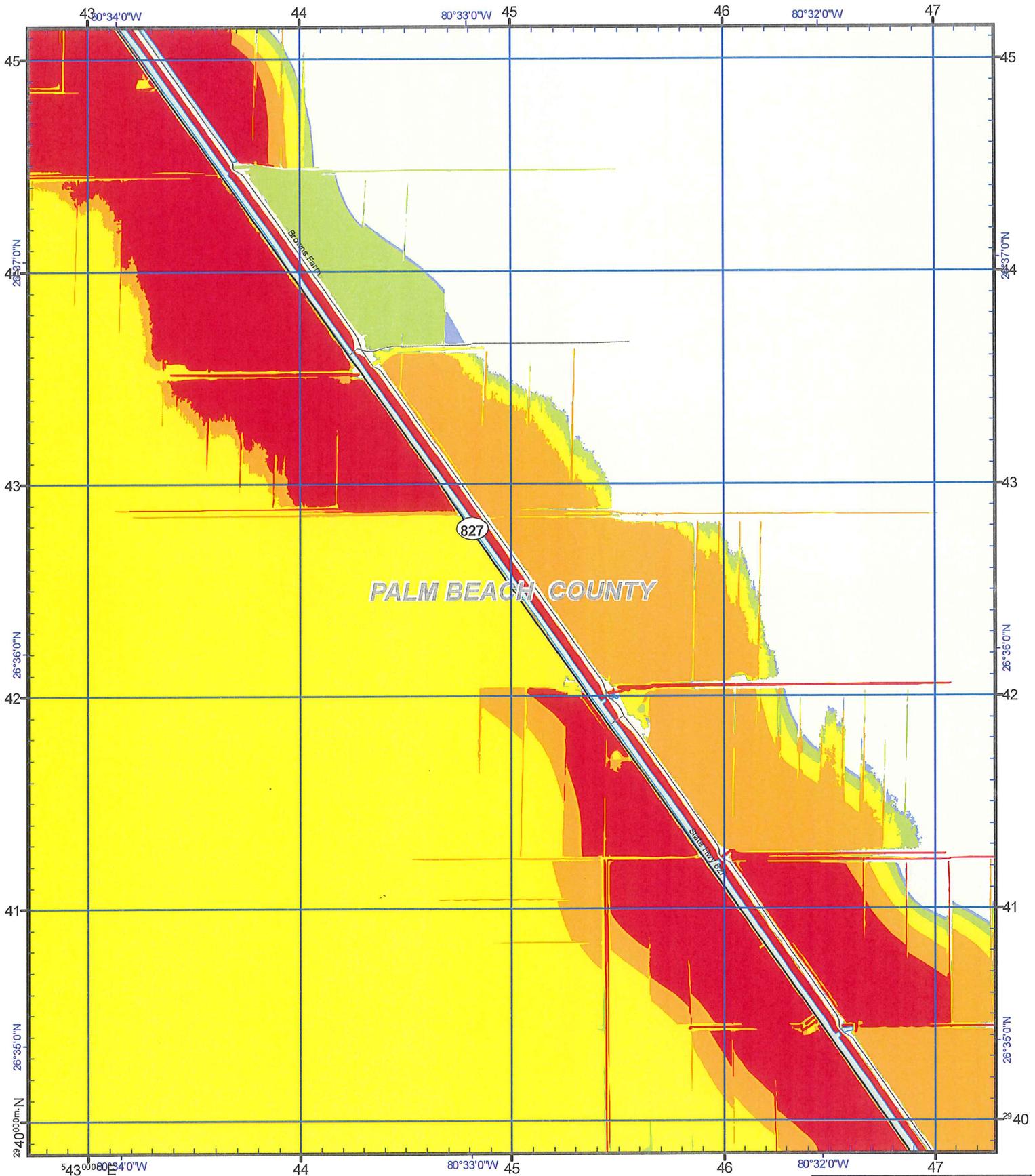
Scale - 1:24,000



USNG Page 17R NK 4240

Map Plate 88



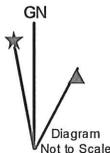


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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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. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations delineated to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- | Cat | |
|-----|--|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |

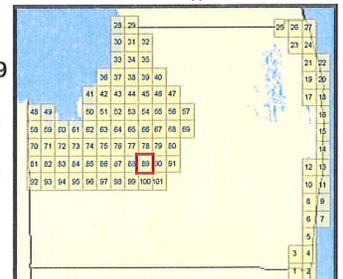
Storm Tide Zones
Palm Beach County, 2009

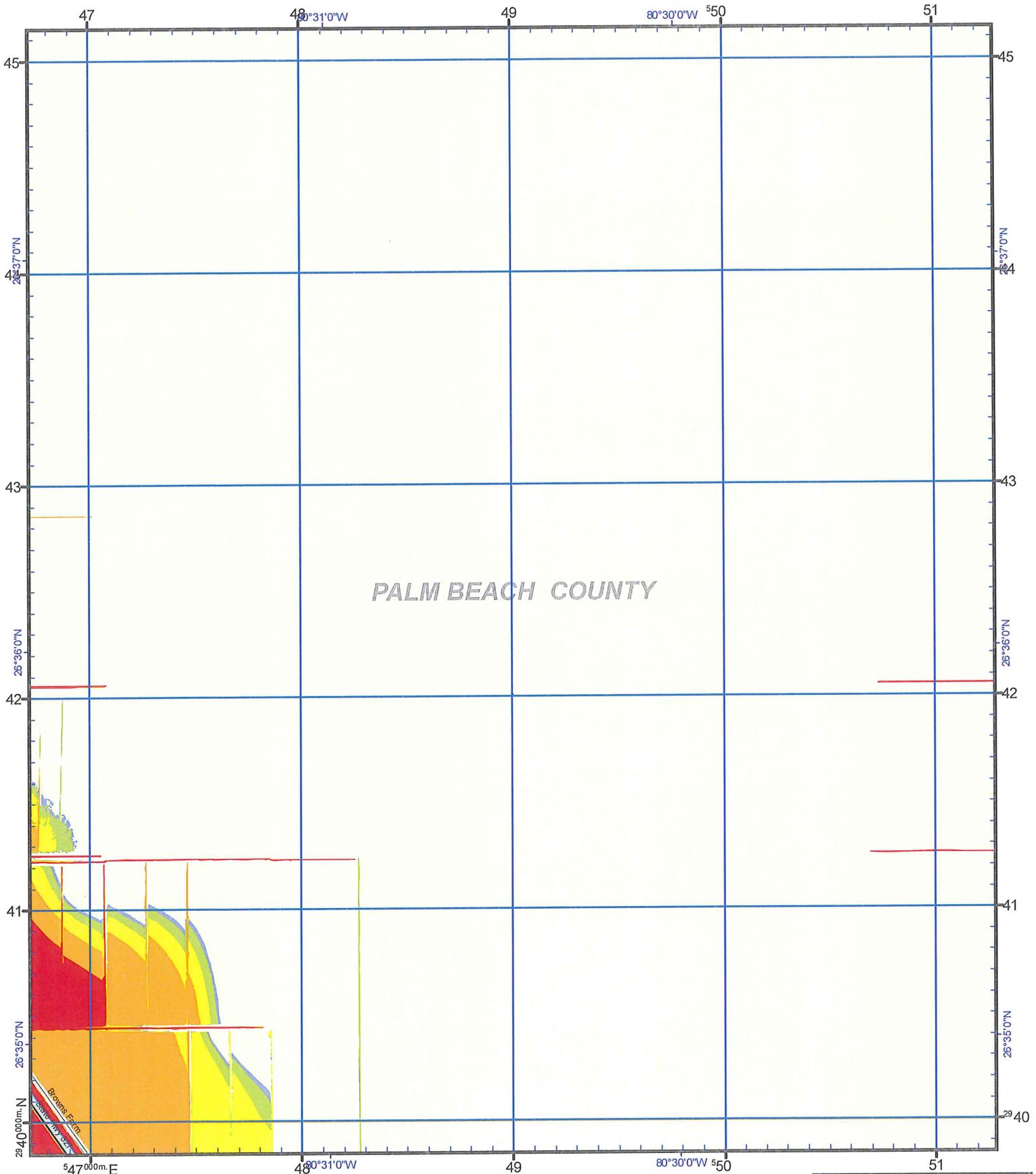
Scale - 1:24,000



USNG Page 17R NK 4640

Map Plate 89



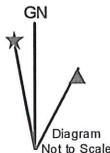


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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

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2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

- Cat**
- 1
 - 2
 - 3
 - 4
 - 5

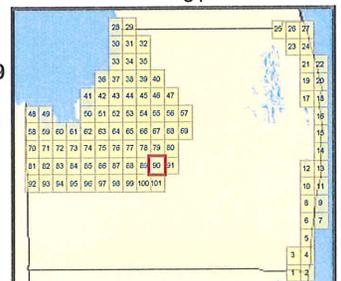
Storm Tide Zones
Palm Beach County, 2009

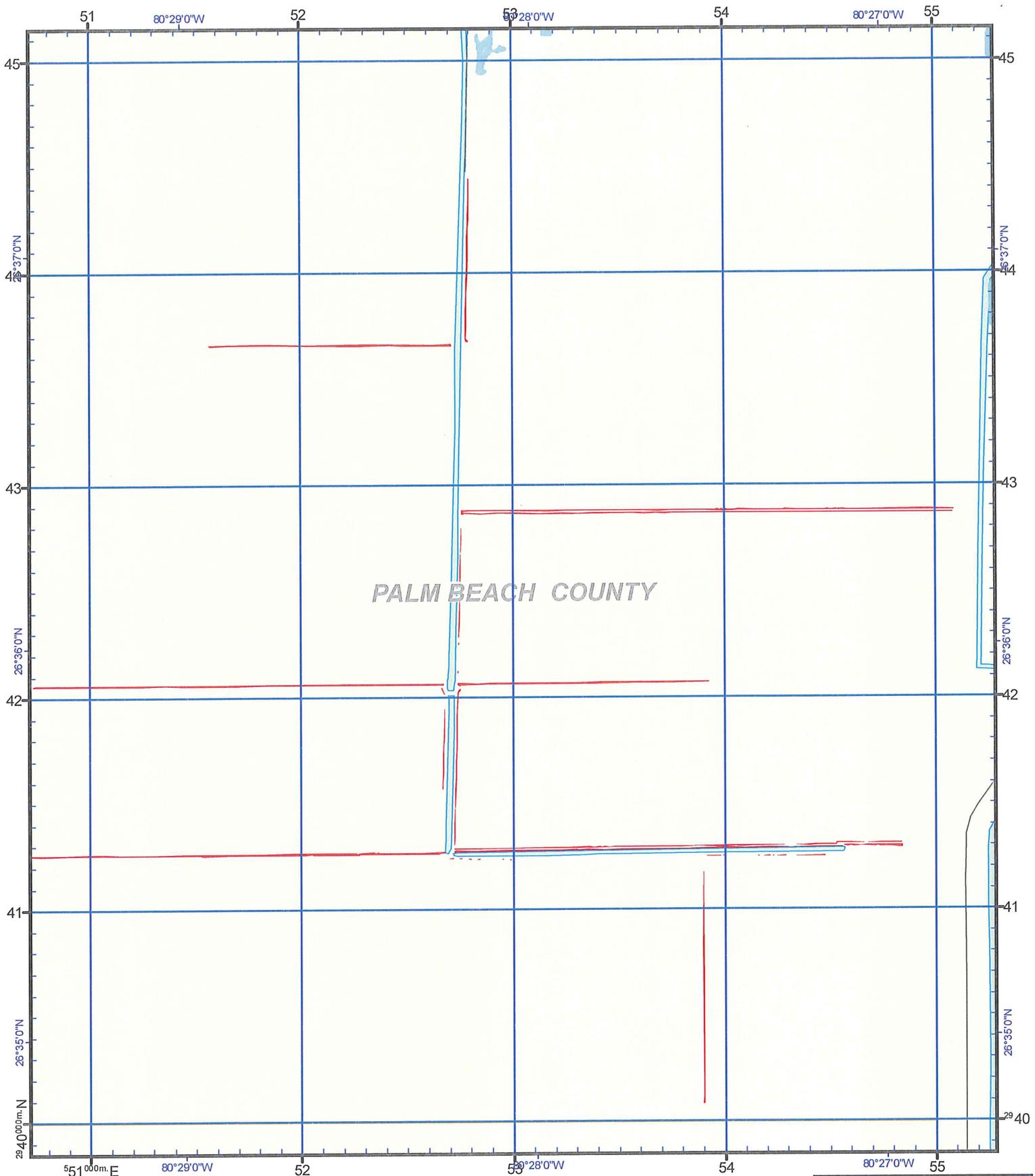
Scale - 1:24,000



USNG Page 17R NK 5040

Map Plate 90



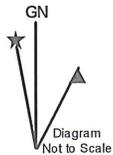


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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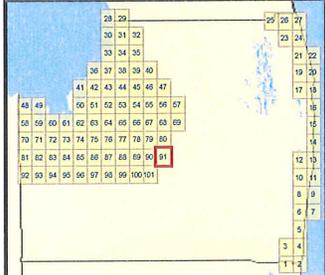


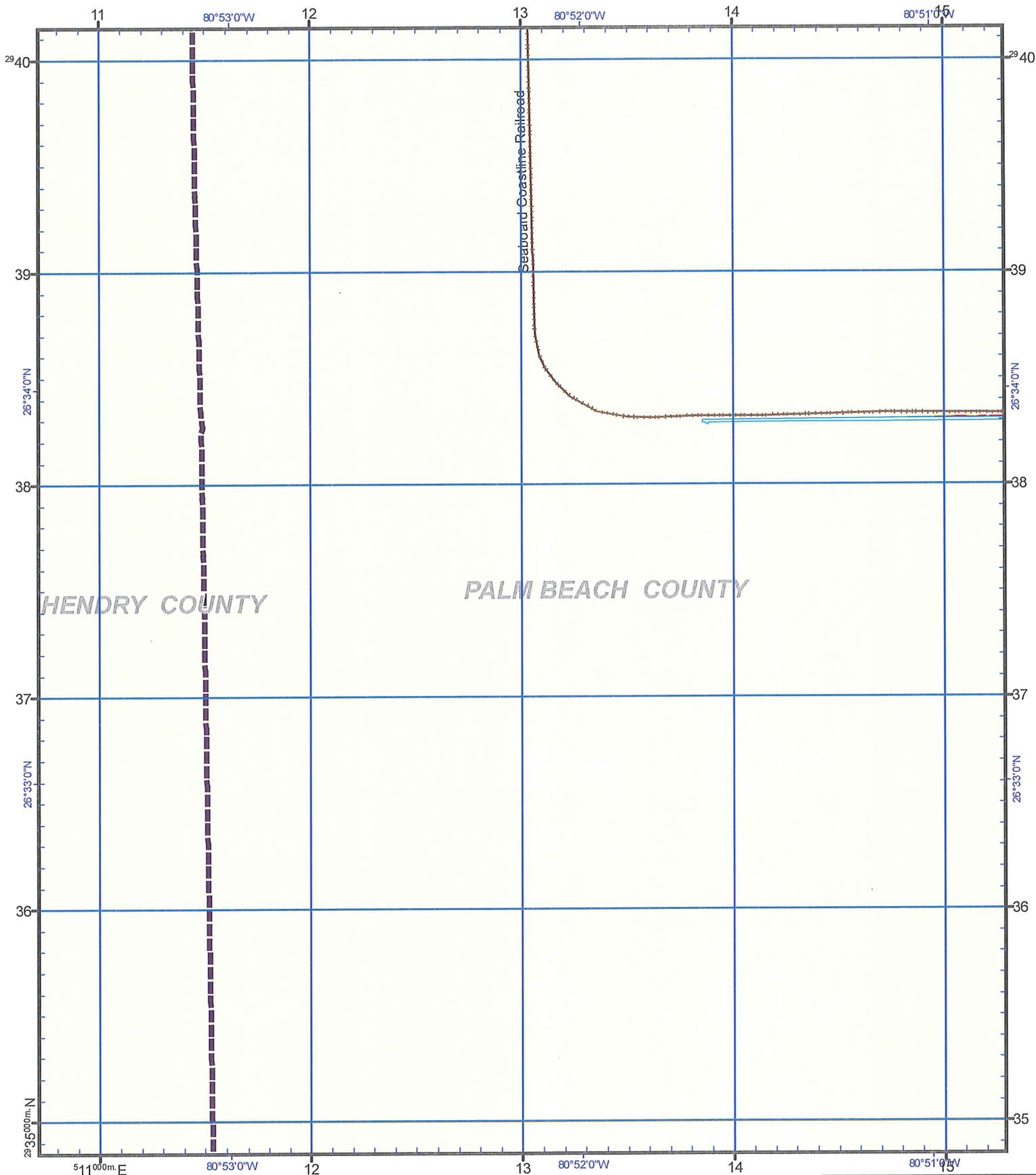
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant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

Legend

Hospital	Points of Reference	Cat 1
Evacuation Route	City Limits	Cat 2
Lakes	Major Water	Cat 3
		Cat 4
		Cat 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 5440
Map Plate 91



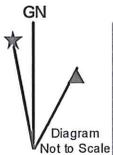


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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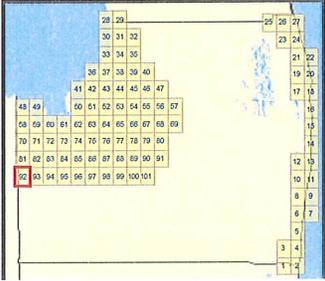


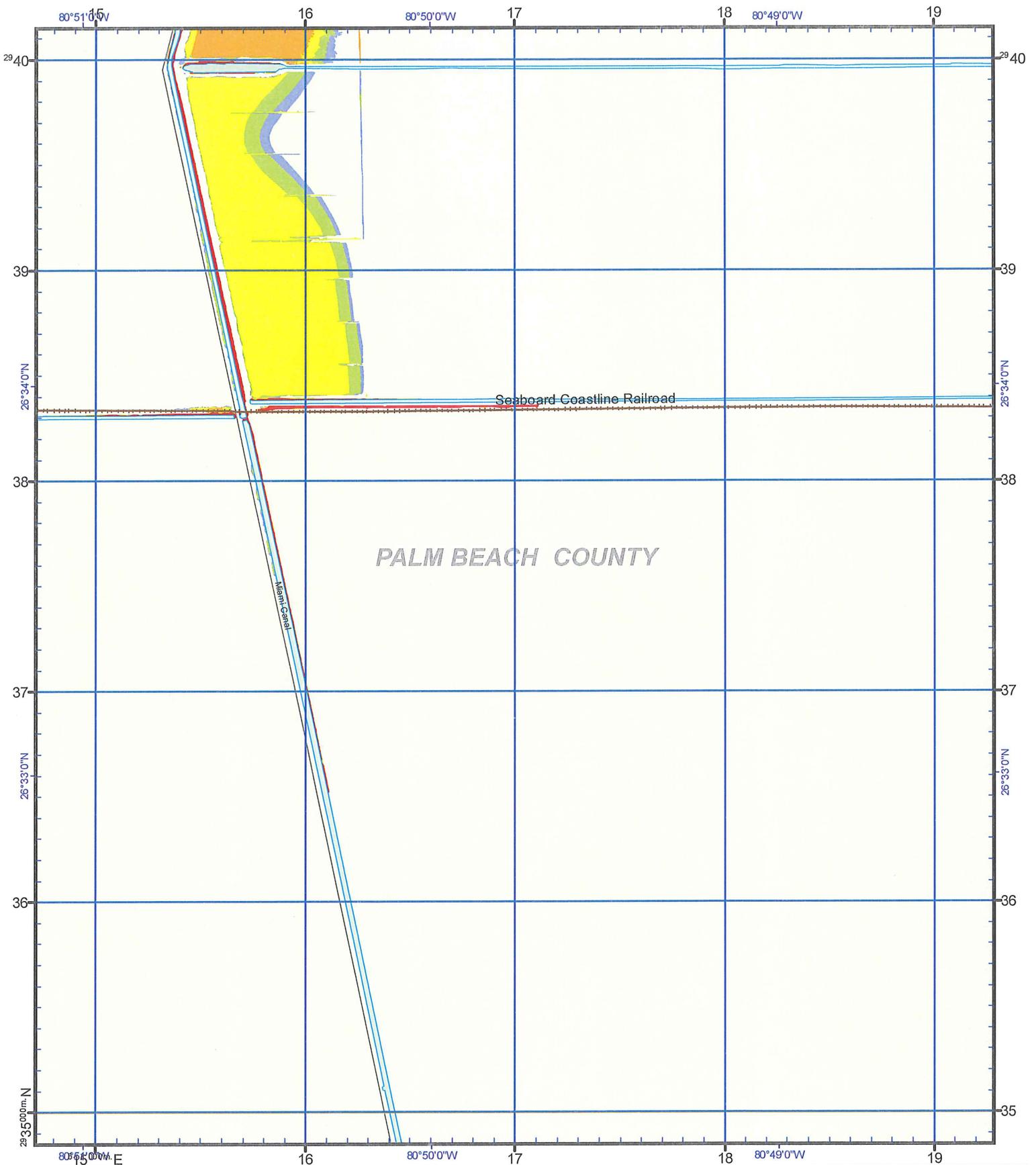
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant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

Legend

Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 1436
Map Plate 92



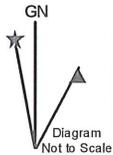


US National Grid
100,000-m Square ID
NK

Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:

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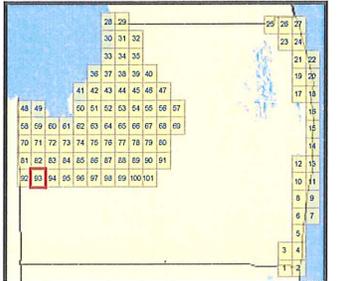
Legend

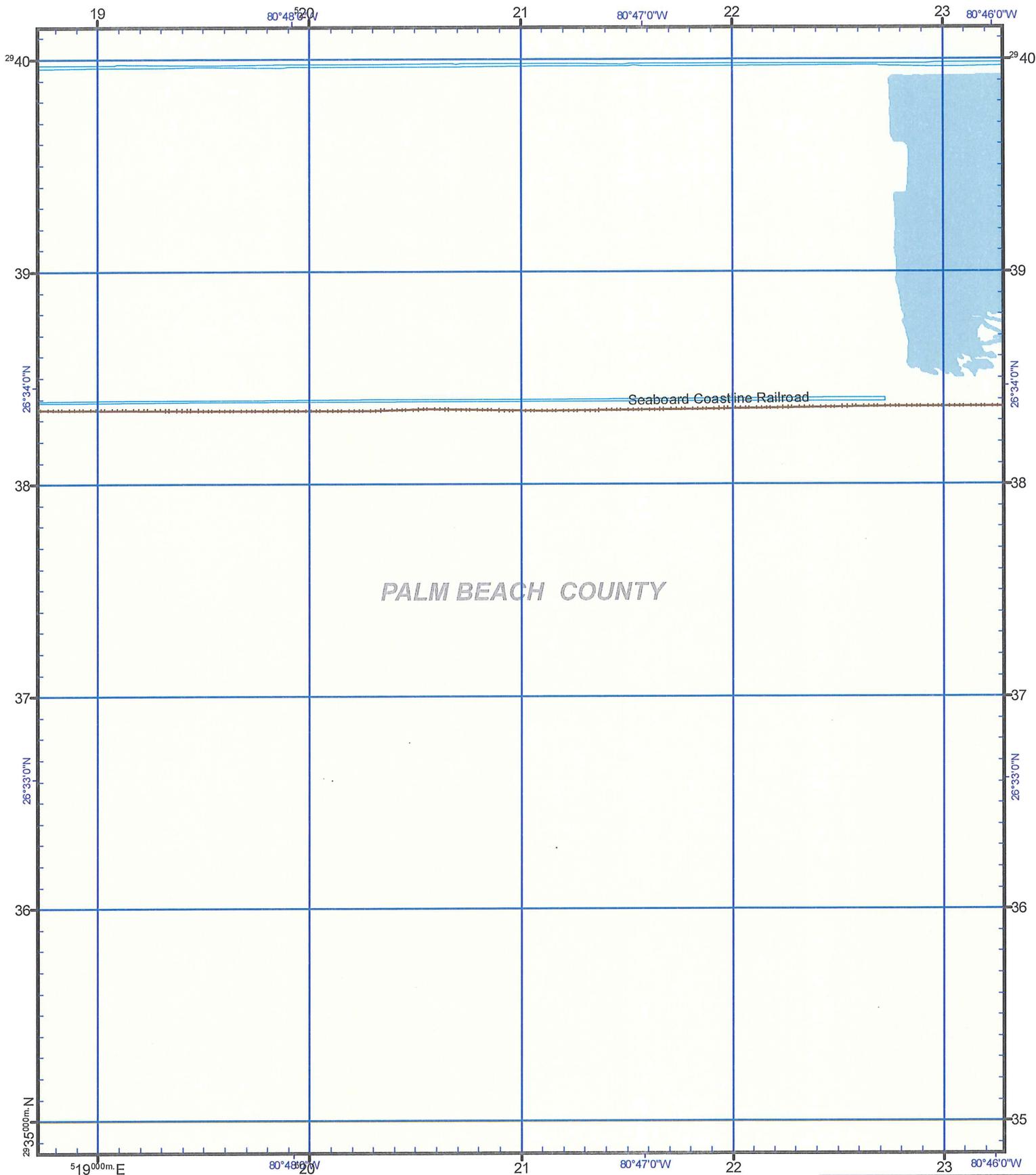
Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

Storm Tide Zones
Palm Beach County, 2009

Scale - 1:24,000

USNG Page 17R NK 1836
Map Plate 93





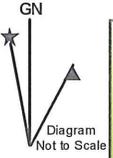
PALM BEACH COUNTY

Seaboard Coastline Railroad

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

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Notes:
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2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

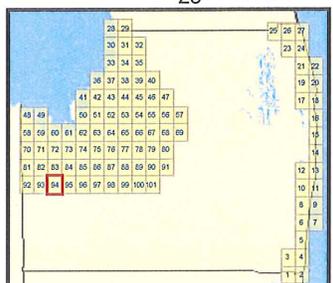
Legend

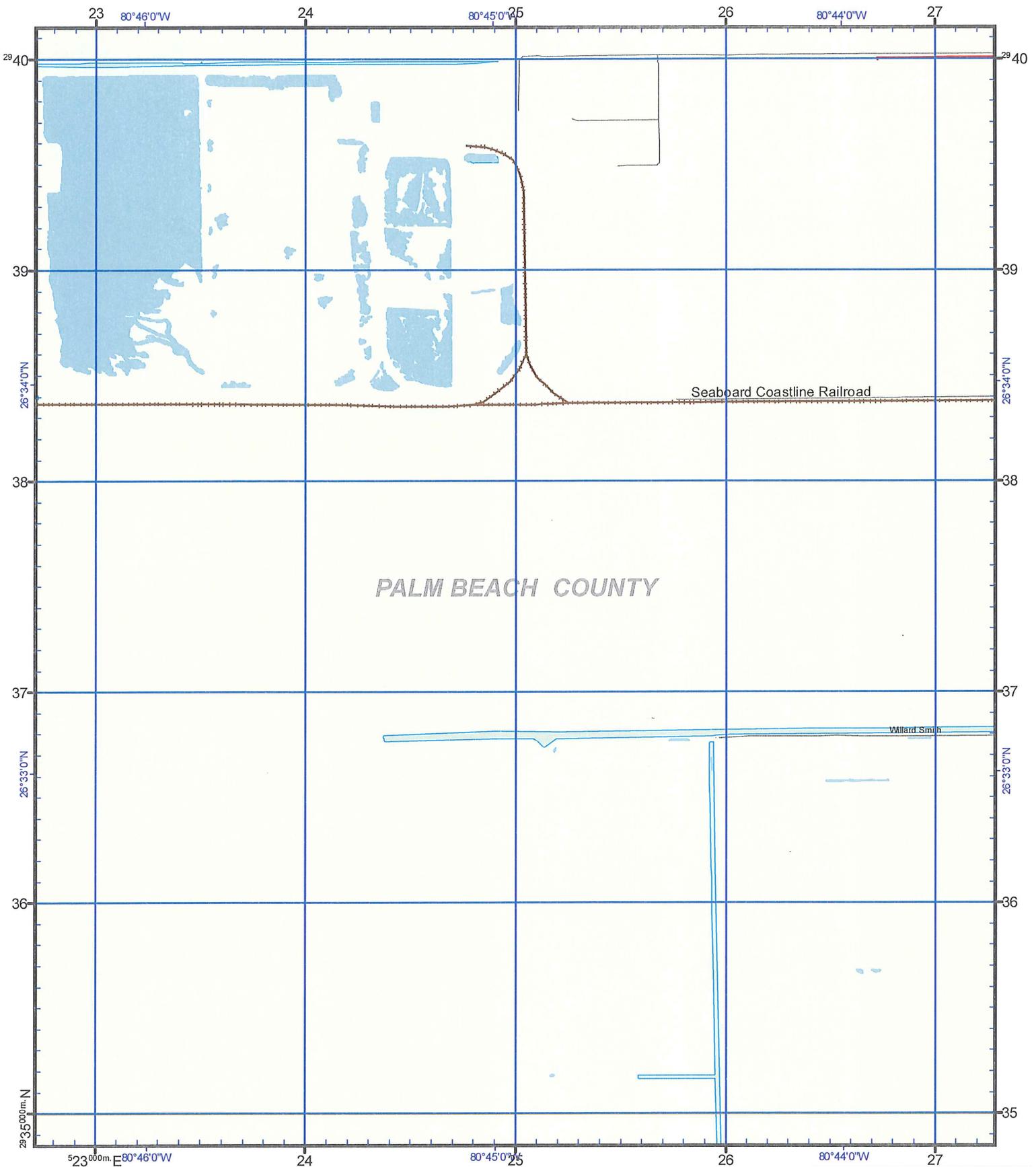
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 2236
Map Plate 94



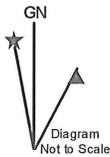


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Produced by Treasure Coast Regional Planning Council for Florida Division of Emergency Management, 2009-2010

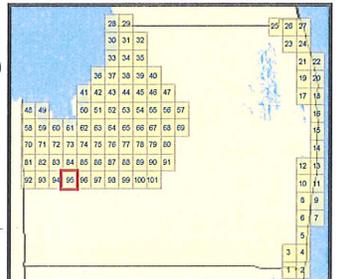


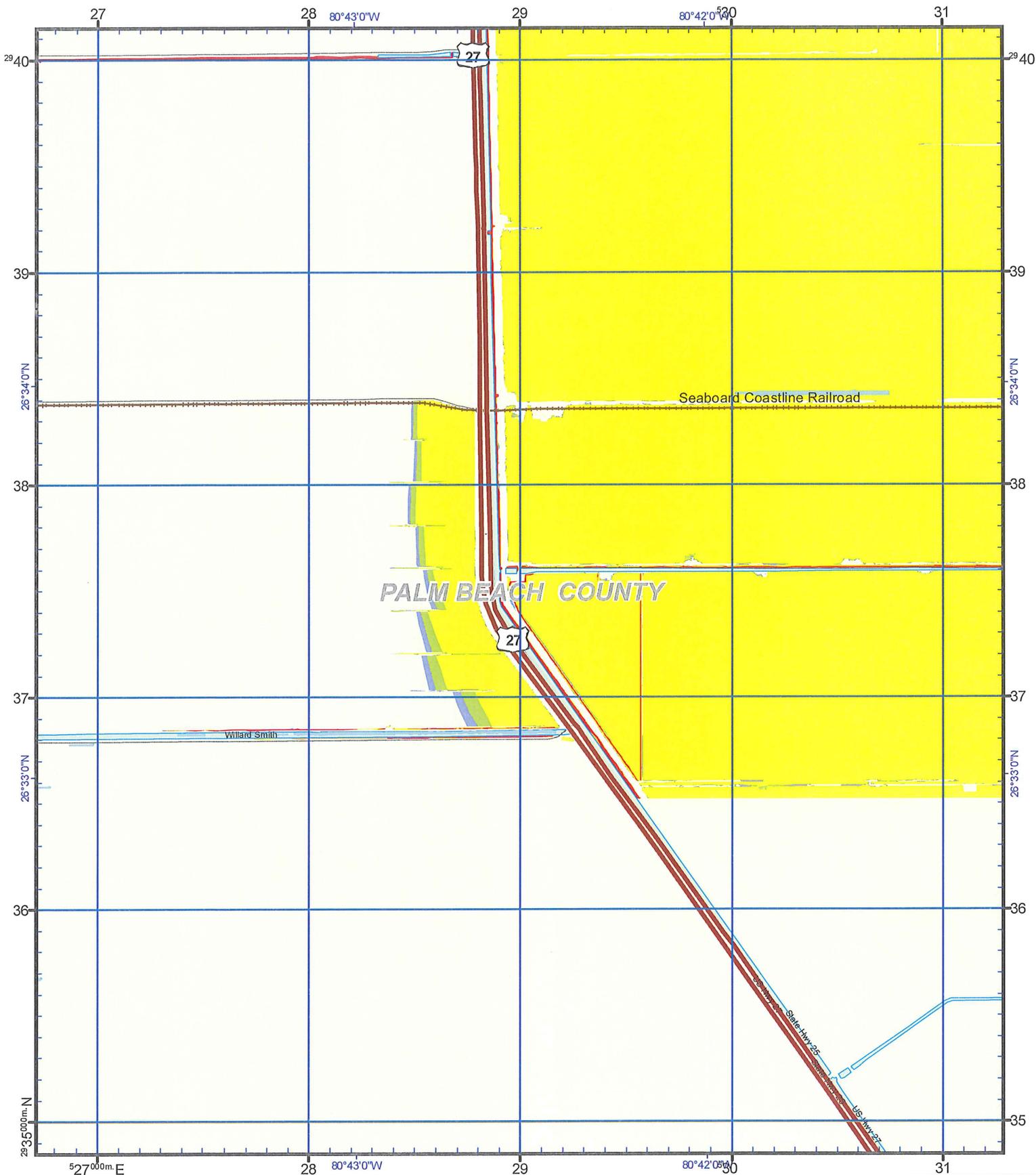
- Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
 2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
 3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 2636
Map Plate 95



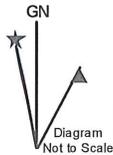


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Produced by Treasure Coast Regional Planning Council for Florida Division of Emergency Management, 2009-2010



Notes:
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3. The Points of Reference are locations determined to be relevant to emergency management officials.

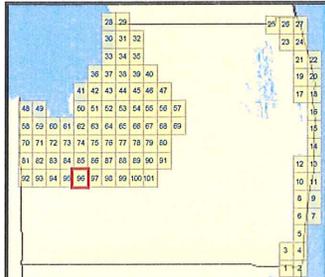
Legend

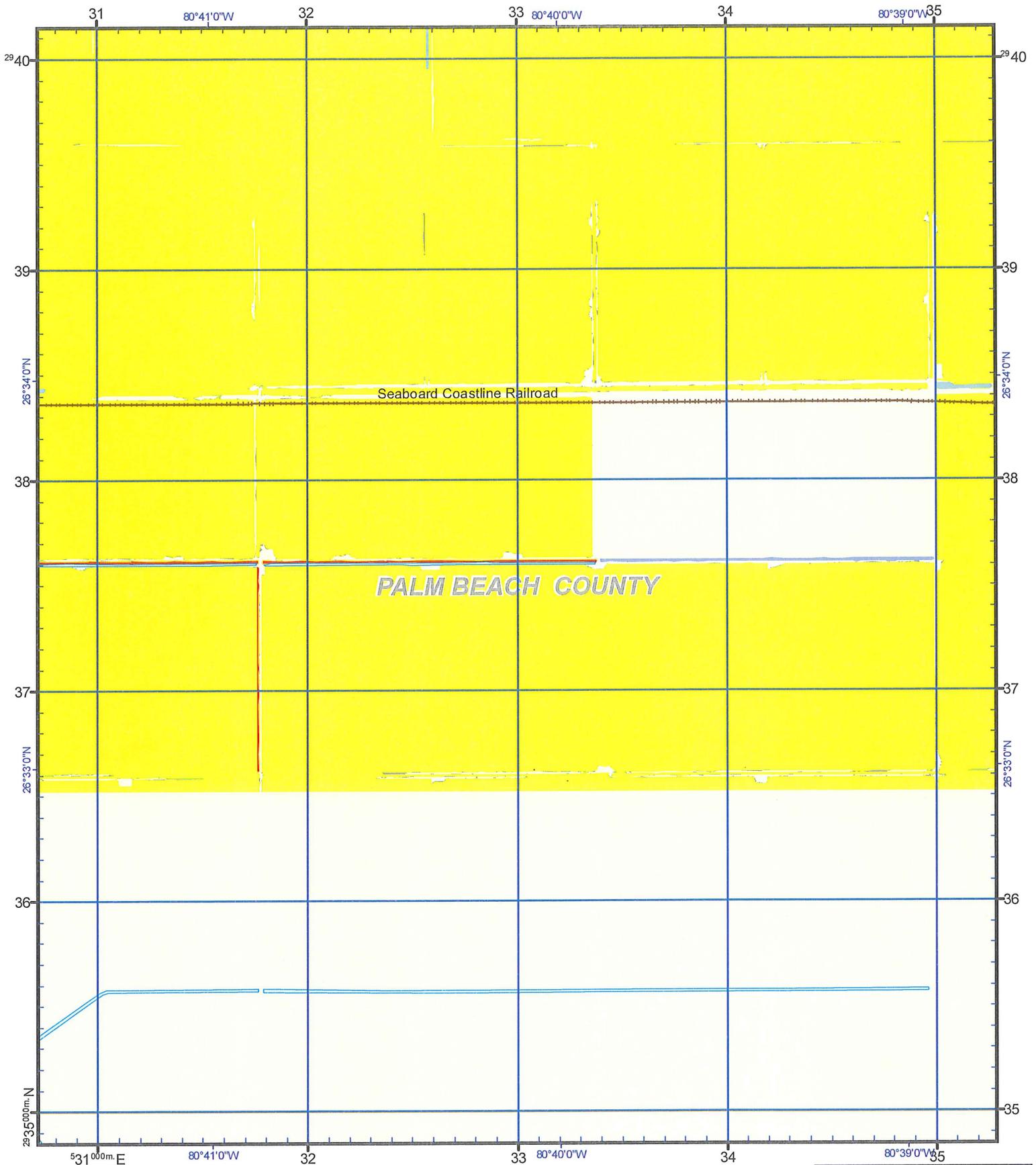
- Hospital
- Points of Reference
- Evacuation Route
- City Limits
- Lakes
- Major Water

Cat

- 1
- 2
- 3
- 4
- 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 3036
Map Plate 96



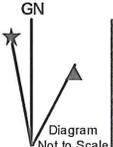


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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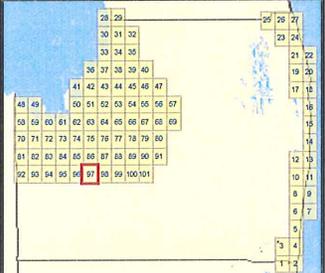


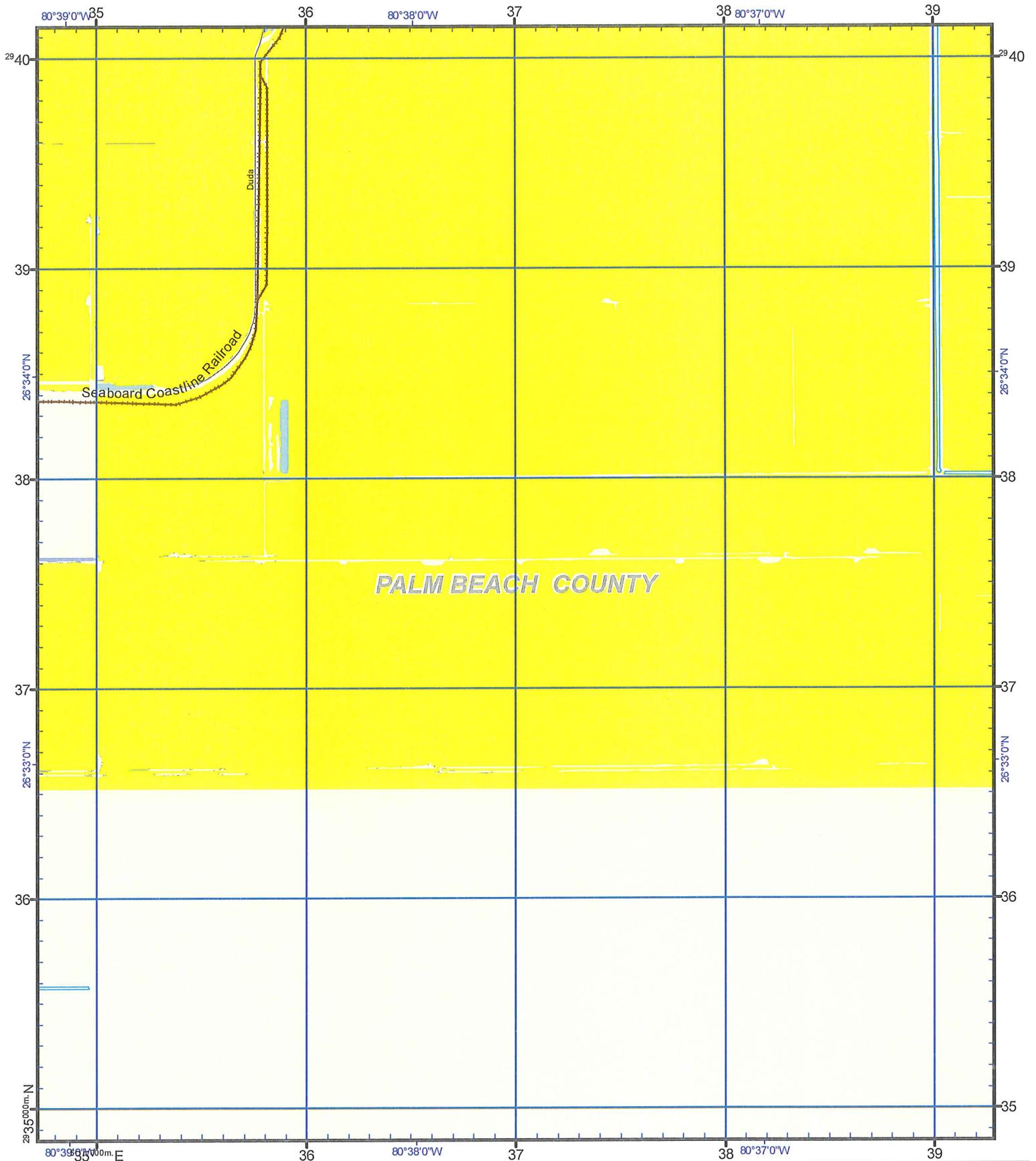
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant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

Legend

Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 3436
Map Plate 97

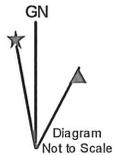




US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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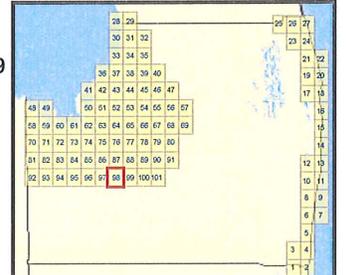
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD85 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

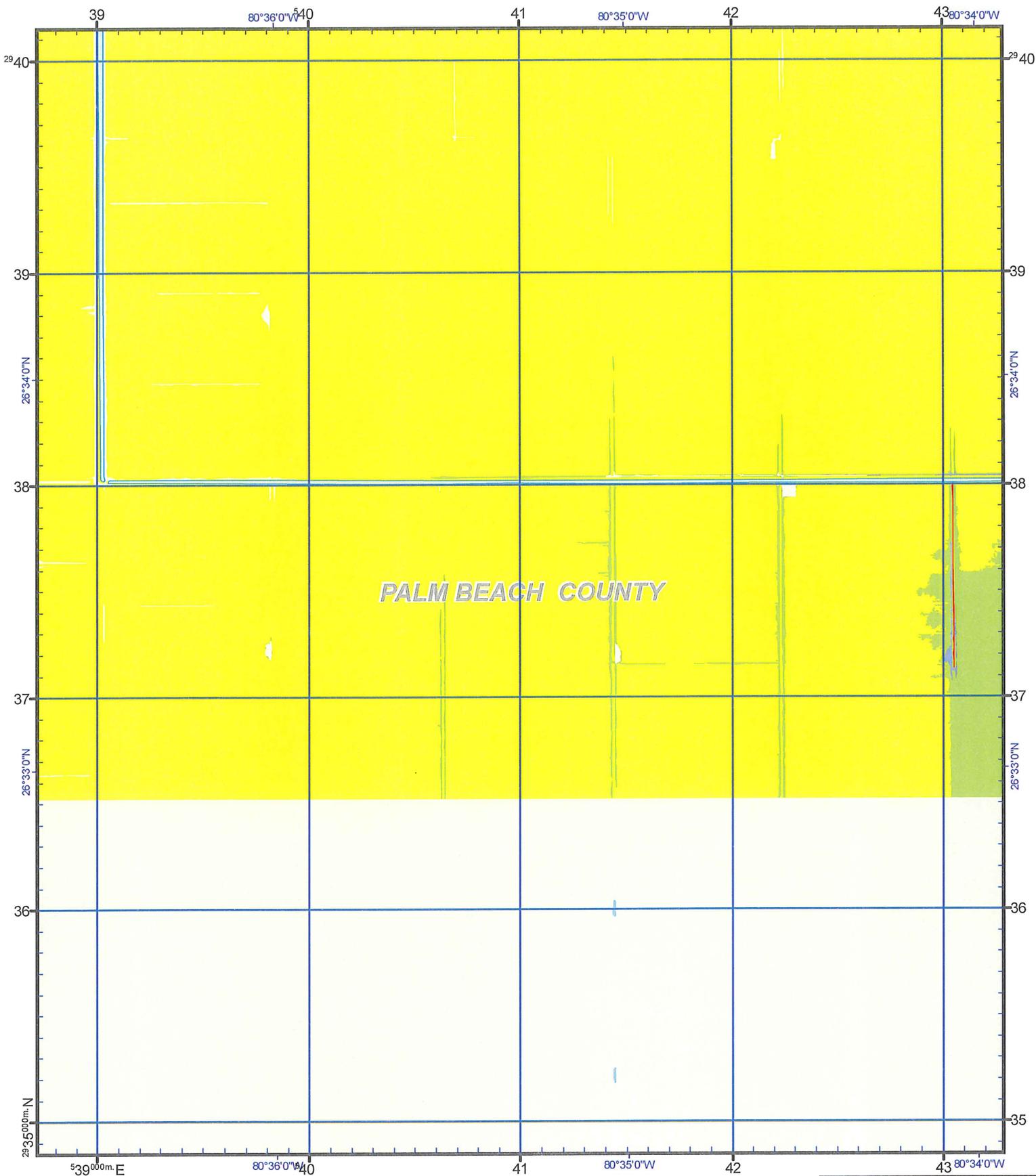
Legend

Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000

USNG Page 17R NK 3536
Map Plate 98





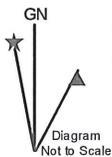
PALM BEACH COUNTY

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

Datum = NAD 1983, 1,000-m USNG
Page Index by Delta State University 2009

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Hurricane evacuation decision-making and growth
management implementation are local responsibilities.
Please consult with local authorities.*

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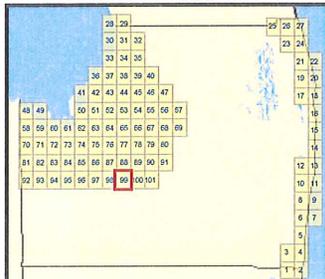


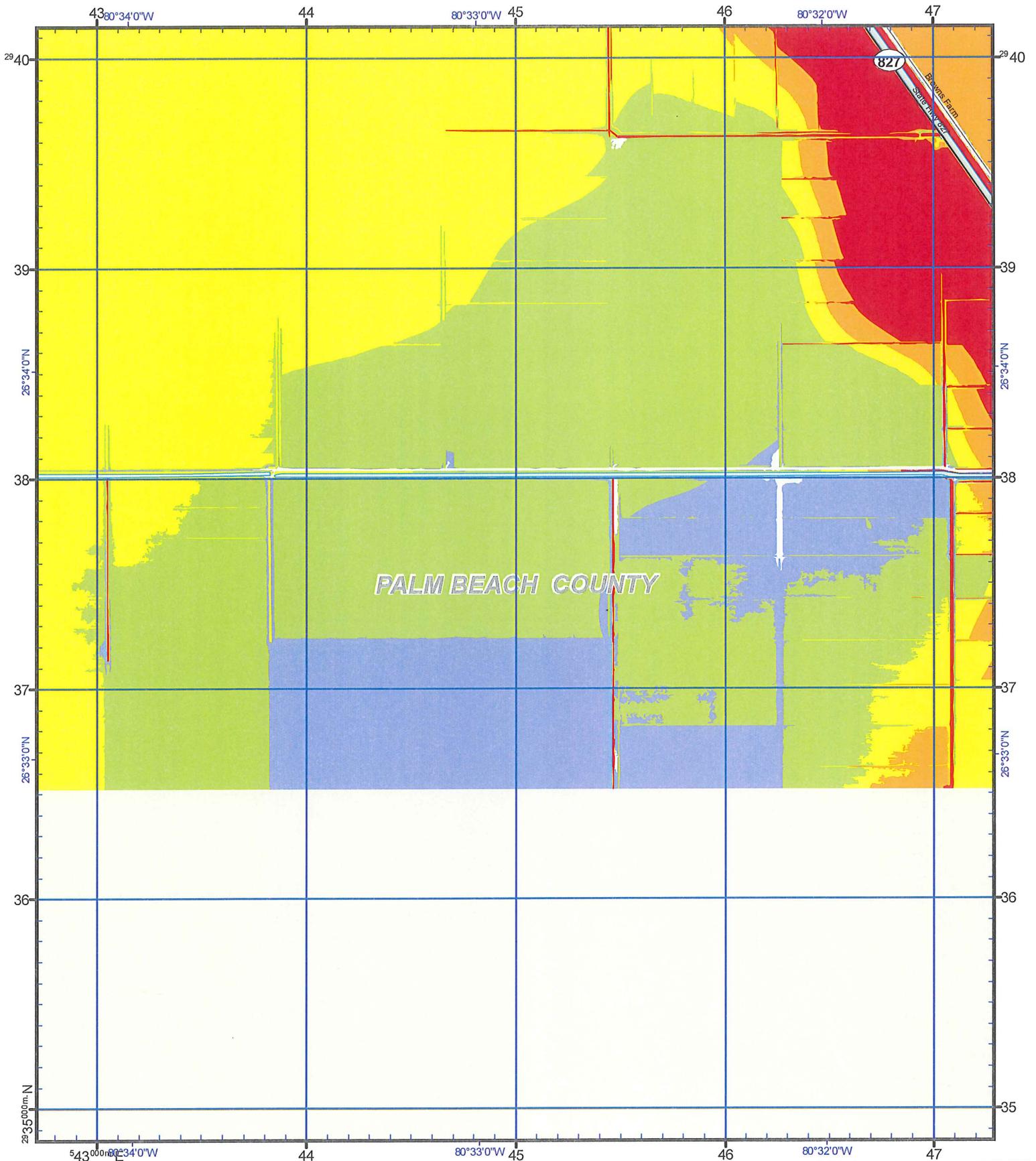
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD89 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 4238
Map Plate 99



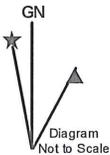


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
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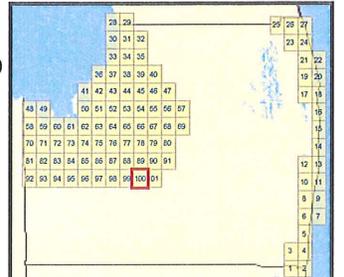


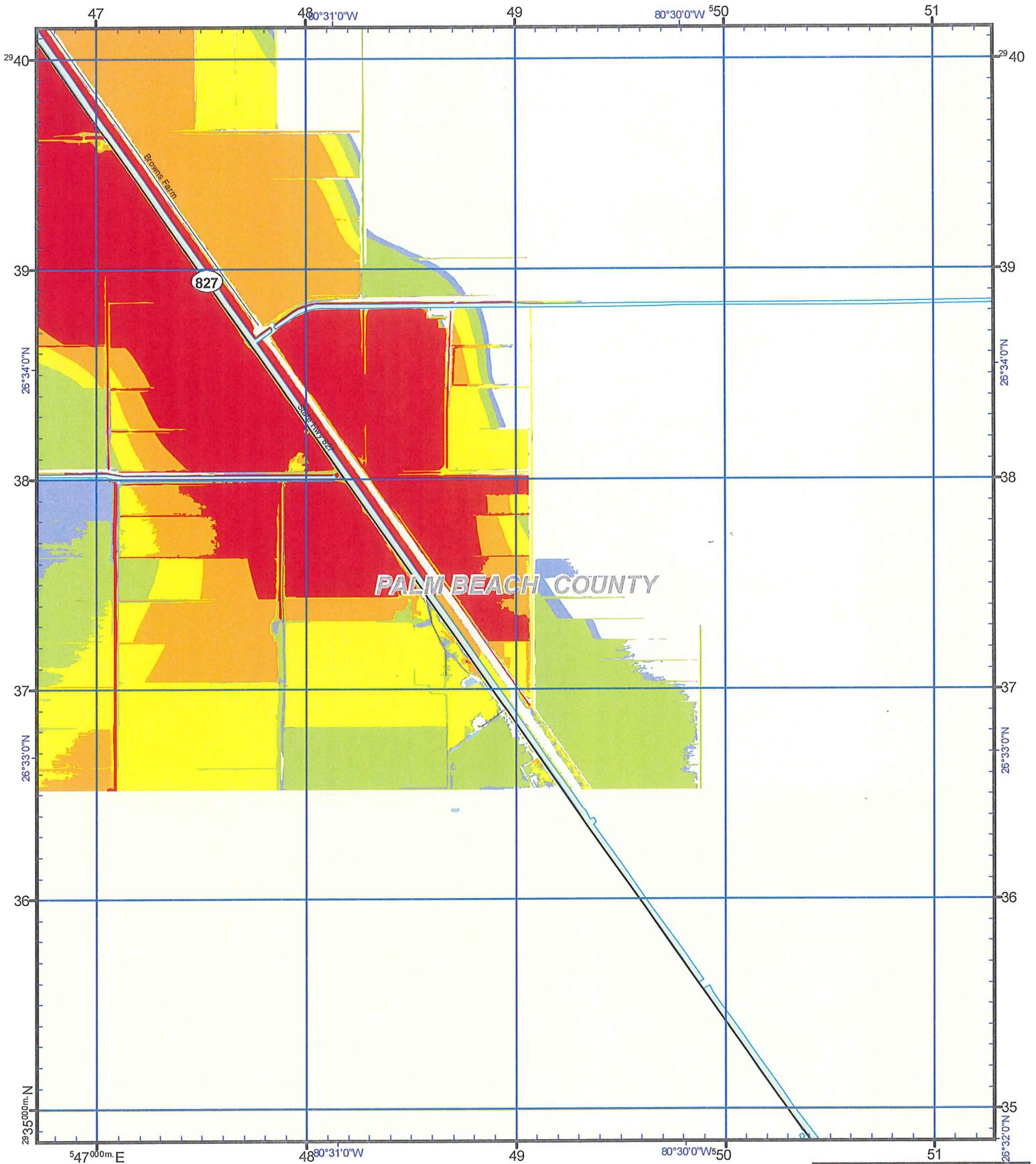
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD88 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximum surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant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

Legend

Hospital	Cat 1
Points of Reference	Cat 2
Evacuation Route	Cat 3
City Limits	Cat 4
Lakes	Cat 5
Major Water	

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000
0 2,000 Feet
USNG Page 17R NK 4438
Map Plate 100



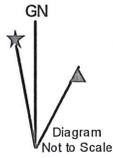


US National Grid
100,000-m Square ID
NK
Grid Zone Designation
17R

Datum = NAD 1983, 1,000-m USNG
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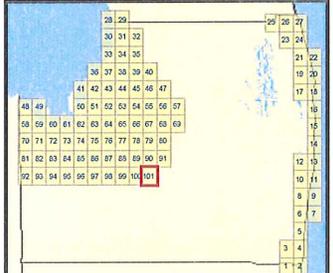
Notes:
1. Surge limits are based on still water storm tide height elevation above NAVD83 at high tide with no wave setup.
2. Total Storm Tide limits were derived from Maximum of Maximums surge heights over LIDAR based digital elevation.
3. The Points of Reference are locations determined to be relevant to emergency management officials.

Legend

Hospital	Points of Reference	Cat 1
Evacuation Route	City Limits	Cat 2
Lakes	Major Water	Cat 3
		Cat 4
		Cat 5

Storm Tide Zones
Palm Beach County, 2009
Scale - 1:24,000

USNG Page 17R NK 5035
Map Plate 101





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Florida Division of Emergency Management

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