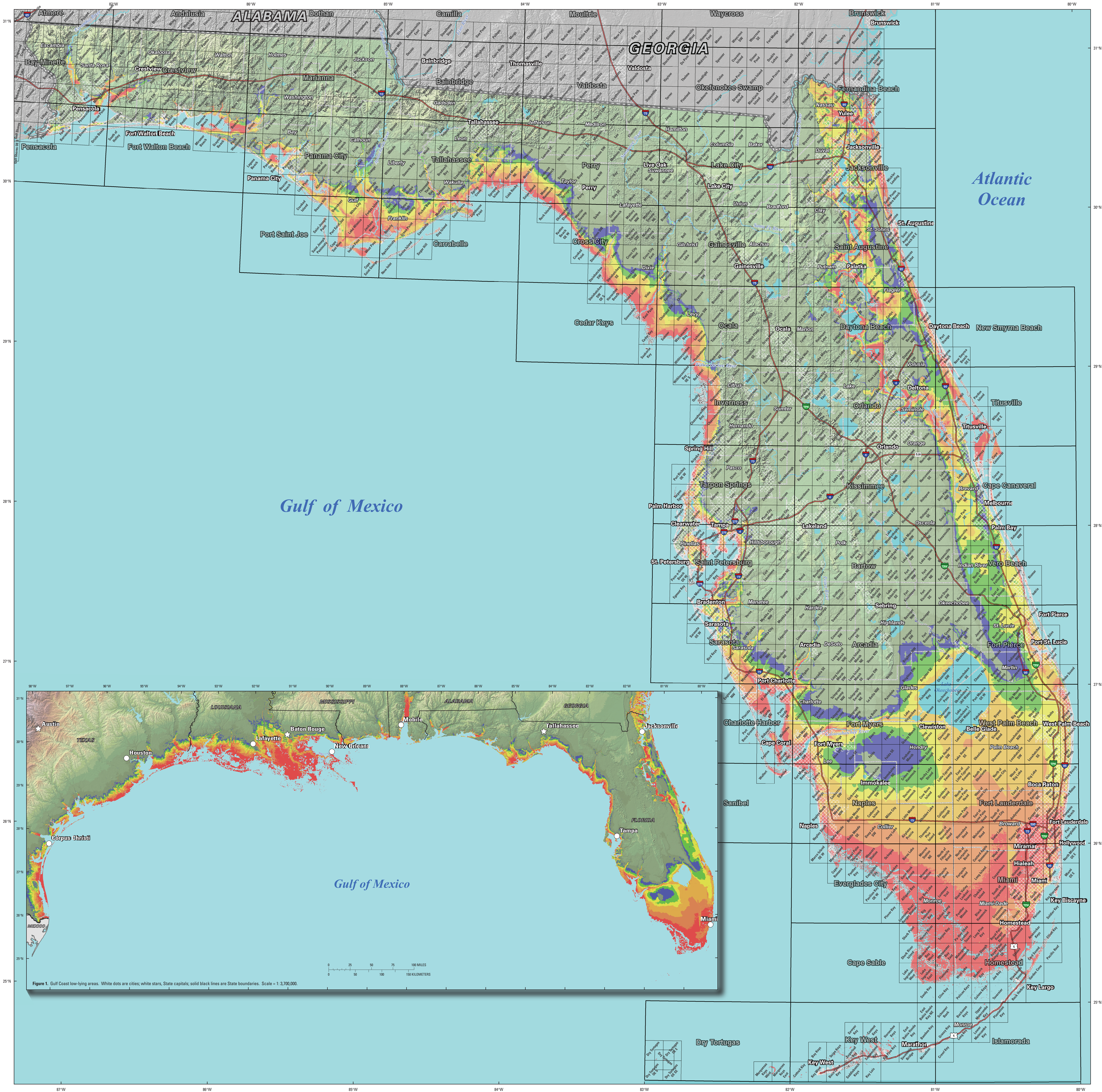


State of Florida 1:24,000- and 1:100,000-scale Quadrangle Index Map—
Highlighting Low-Lying Areas Derived from USGS Digital Elevation Data

By John J. Kosovich
2008

Scientific Investigations Map 3047
Version 1.0



Explanation

- Major road
- State boundary
- County boundary
- County name
- City or urban area
- River
- Water body
- 1:24,000-scale quadrangle
- 1:100,000-scale quadrangle

Elevation (feet)

- Above 1,000
- 900 – 1,000
- 800 – 900
- 700 – 800
- 600 – 700
- 500 – 600
- 450 – 500
- 400 – 450
- 350 – 400
- 300 – 350
- 250 – 300
- 200 – 250
- 150 – 200
- 100 – 150
- 50 – 100
- 25 – 30
- 20 – 25
- 15 – 20
- 10 – 15
- 5 – 10
- 0 – 5
- Sea level
- Below sea level

Summary

In support of U.S. Geological Survey (USGS) disaster preparedness efforts, this map depicts 1:24,000- and 1:100,000-scale quadrangle footprints over a color shaded relief representation of the State of Florida. The first 30 feet of relief above mean sea level are displayed as brightly colored 5-foot elevation bands, which highlight low-elevation areas at a coarse spatial resolution. Standard USGS National Elevation Dataset (NED) 1 arc-second (nominal 30-meter) digital elevation model (DEM) data are the basis for the map, which is designed to be used at a broad scale and for informational purposes only.

The NED source data for this map consists of a mixture of 30-meter- and 10-meter-resolution DEMs. The NED data were derived from the original 1:24,000-scale USGS topographic map bare-earth contours, which were converted into gridded quadrangle-based DEM tiles at a constant post spacing (grid cell size) of either 30 meters (data before the mid-1990s) or 10 meters (mid-1990s and later data). These individual-quadrangle DEMs were then converted to spherical coordinates (latitude/longitude decimal degrees) and edge-matched to ensure seamlessness.

Figure 1 shows a similar representation for the entire U.S. Gulf Coast, using coarsened 30-meter NED data. Areas below sea level typically are surrounded by levees or some other type of flood-control structures.

State and county boundary, hydrography, city, and road layers were modified from USGS National Atlas data downloaded in 2003. Quadrangle names, dated April, 2006, were obtained from the Federal Geographic Names Information System. The NED data were downloaded in 2004.

Data Sources

National Elevation Dataset (NED), 2004, USGS National Elevation Dataset: U.S. Geological Survey, <http://seamless.usgs.gov/>. (Last accessed Sept. 4, 2008).

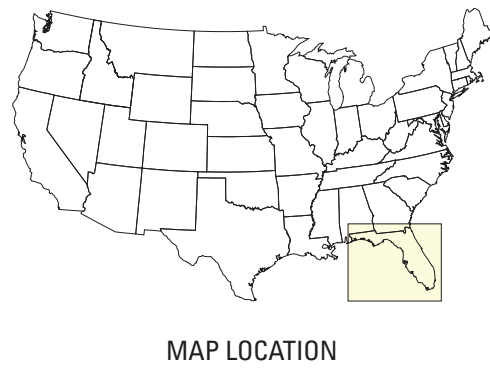
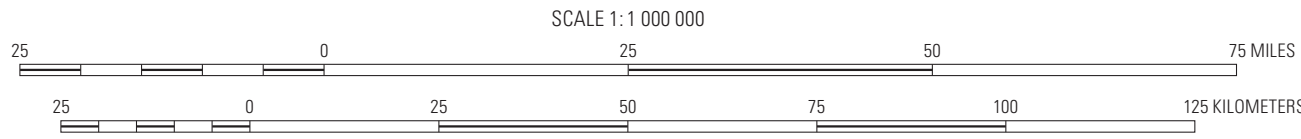
The USGS National Atlas of the United States of America, 2003, National Atlas of the United States of America: U.S. Department of the Interior, <http://nationalatlas.gov/>. (Last accessed Sept. 5, 2008).

U.S. Board on Geographic Names, 2006, Federal Geographic Names Information System (GNIS): U.S. Geological Survey, <http://geonames.usgs.gov/>. (Last accessed Sept. 5, 2008).

Base derived from U.S. Geological Survey National Elevation Dataset (NED), 2004
Projection: Universal Transverse Mercator, zone 17
on North American Datum 1983 (NAD83)

U.S. Department of the Interior
U.S. Geological Survey

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Map compiled by J.J. Kosovich in May 2008

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