

# The Shoreline

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A Shoreline Community, Pine Knoll Shores, N.C.

November 2014



**America  
Recycles  
Day**  
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## State of the Beach, 2014

By John Brodman

*This is the first part of a series of articles about the status of our beach and the efforts underway to protect this valuable natural resource.*

North Carolina's barrier islands, including Bogue Banks, are part of a dynamic coastal system that is constantly changing as a result of natural forces (such as storms, sand supply and changes in sea level) and human activity (such as construction and channel and inlet maintenance). According to the Carteret County Shore Protection Office, the number one, man-made cause of beach erosion on Bogue Banks is the dredging of the Beaufort Inlet and Morehead City Harbor. Sand migrates constantly, both east and west, parallel to our shoreline, and north and south, perpendicular to the shoreline, resulting in accretion (a build-up) of sand in some areas and erosion in others. Changes in the volume of sand on both the dry shore and nearshore (underwater) portions of the beach also have a direct impact on the movement of the shoreline itself. This was clearly demonstrated by the impacts of the hurricanes that struck Bogue Banks in the last 20 years, namely Bertha and Fran in 1996, Bonnie in 1998, Dennis and Floyd in 1999, Isabelle in 2003, Ophelia in 2005 and Irene in 2011, which resulted in varying amounts of dune erosion and property damage.

"Like sands through the hourglass . . ." In order to monitor the long-term effects of these natural and man-made forces on our beach, and to help the county formulate the initial phases of the early 2000s Bogue Banks Beach Restoration Project, Carteret County undertook, in 1999, a comprehensive program to survey and monitor the shoreline of Bogue Banks. The program has evolved somewhat since its early years, and it has now become institutionalized as the "Bogue Banks Beach and Near-shore Mapping Program." This includes an annual survey of 122 shore-perpendicular profiles of the beach at specific locations along Bogue Banks, and Beaufort and Bogue Inlets (called transects), spaced about 1,000 feet apart, from a water depth of 30 feet (which can be a mile offshore in some places) to the top of the primary dune. It also includes an annual survey of 18 profiles on Bear Island, also spaced about

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## Vietnam-Era Vets Honored by PKS

### To the Fallen, to the Friends, to the Future

The town of Pine Knoll Shores recognized Vietnam-era veterans in early October with a monument dedication ceremony at Veterans Park behind town hall and a dinner at the Country Club of the Crystal Coast.

Over 125 people attended the dedication ceremony at town hall under bright blue skies. In attendance were many veterans of WWII, the Korean War and the



The Veterans Memorial located in Pine Knoll Shores. The memorial was rededicated on October 4 at a town ceremony to honor Vietnam-era veterans.

—Photo by Bill Messer

Vietnam era as well as family, friends and others who came out to honor our veterans. A U.S. Marine Corps color guard from Camp Lejeune was on hand to present the colors for the pledge of allegiance led by Mayor Ken Jones. Major General Tom Tempel, USA, Retired, led in the invocation, followed by a moving rendition of "The Star Spangled Banner" by Megan Shurtleff. Major General Richard "Gus" Gustafson, USMC, Retired, provided the keynote address, reminding attendees of the sacrifice that is required of all military personnel during wartime. Following General

Gustafson's comments, Ms. Shurtleff led the crowd in "God Bless America," followed by retiring the colors and taps bugled by Mayor Jones.

In preparation for this event, three new monuments were placed adjacent to the original veterans monument dedicated in 2008: WWII (1941-1945), the Korean War (1950-1953) and the Vietnam era (1961-1975).

While the dedication ceremony took just over half an hour, it was moving and reverent, honoring those who served and returned and those who didn't come home, soberly reminding those in attendance of the cost of freedom.

Later in the evening, about 165 people, including 65 veterans, attended a dinner at the Country Club of the Crystal Coast. General Manager Chip Chamberlin greeted

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