

BEFORE**AFTER****Topsail Beach Overwash 34° 24.05'N 77° 34.80'W****Bertha 7/16/96 10:27 EDT****Fran 9/07/96 14:31 EDT**

The duneline, which was eroded but remained intact during Bertha, was destroyed and overwashed during Fran. Erosion has undercut many houses causing severe damage or total destruction. The force of the waves overwashing the dunes moved one house off its foundation and into the sand covered road behind its former location (red arrows). The storm surge deposited sand within vegetated areas, but the geometry of the overwash is obscured by the canopy. The dark sand on the beach is formed by heavy minerals that are typically concentrated on the beach during erosion. A thin band appears after Bertha with a wide deposit as a result of Fran.

BEFORE**AFTER****Topsail Beach Dune Erosion 34° 22.79'N 77° 36.47'W****Bertha 7/16/96 10:26 EDT****Fran 9/07/96 14:30 EDT**

The dune line in front of the apartments seems intact with minor erosion at the base after the passage of Bertha. After Fran, the dune was eroded to the first line of houses, leaving a new scalloped scarp line. In a few places the dune was breached.