



**HISTORICAL SHORELINES MAP**

2011 shoreline (base aerial)  
 - 1848 shoreline (blue)  
163-year period

Average Annual Rate of Erosion =  $\frac{840\text{-ft. of shoreline recession}}{163\text{-year period}} = 5.1 \text{ ft./yr.}$

1993 shoreline (yellow)  
 - 1942 shoreline (red)  
51-year period

Average Annual Rate of Erosion =  $\frac{310\text{-ft. of shoreline recession}}{51\text{-year period}} = 6.1 \text{ ft./yr.}$