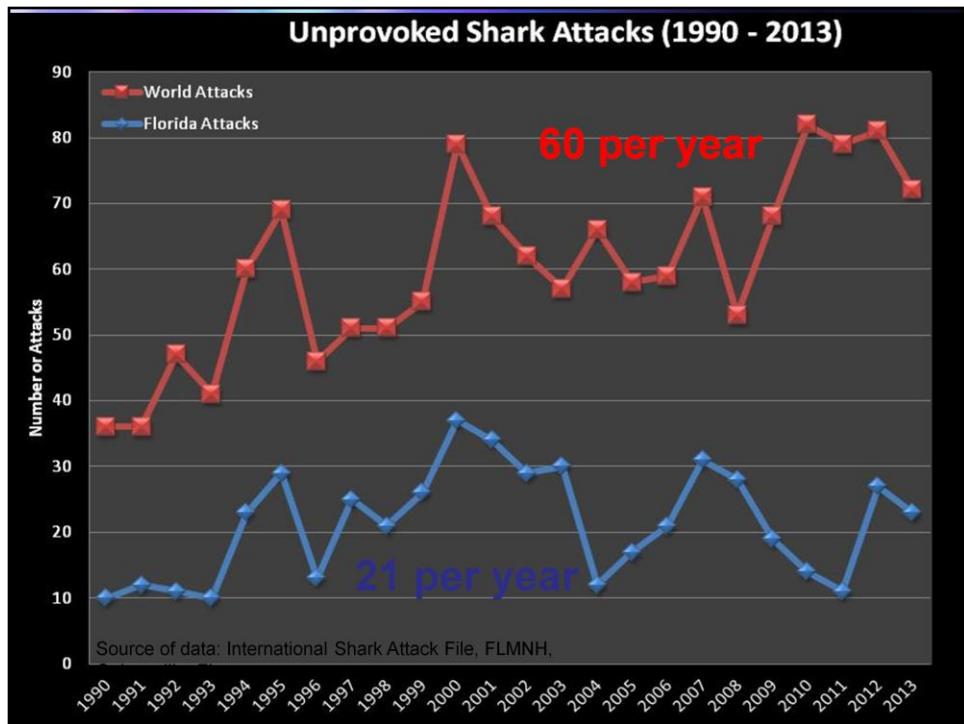


It is important to address Shark related concerns and/or fears with actual scientific data and statistics to gain proper insight into the relative frequency and risks of Shark vs Human interactions.



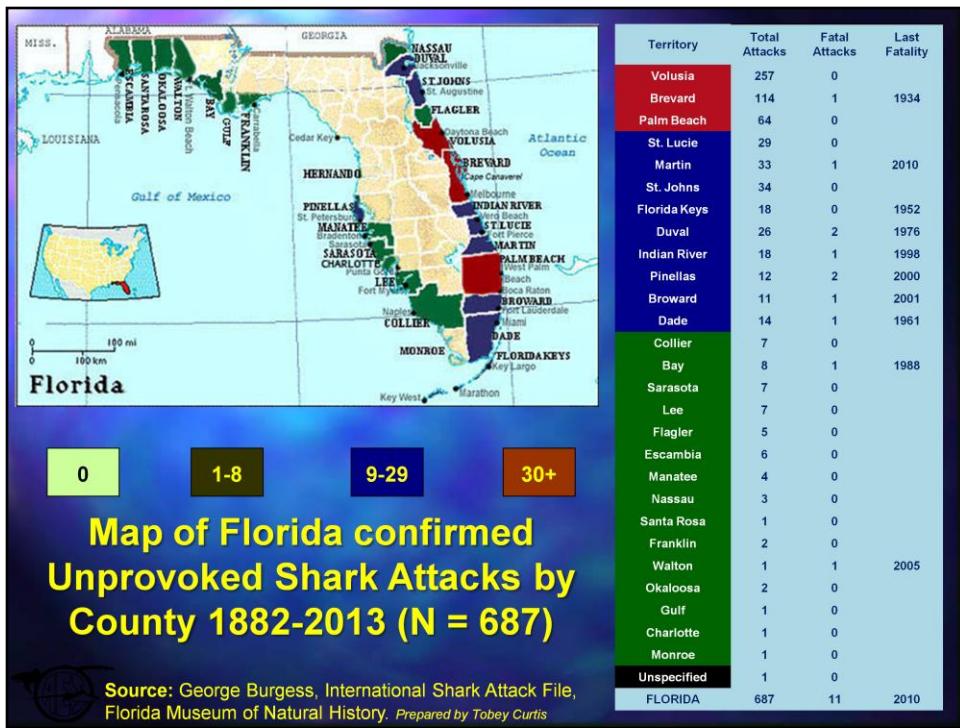
Shark attack records are currently housed in the International Shark Attack File. This file has records dating back to the mid-1800s. Worldwide attacks have gradually increased in recent decades, however scientists are certain that this is directly related to human population growth and increased recreating along ocean beaches. On average there are ~ 60 Shark Attacks each year worldwide. In Florida we average ~21 attacks per year. It is important to note that shark attacks are very rarely fatal,.... ~10% worldwide, and ONLY 1% in Florida.

## Confirmed Unprovoked Shark Attacks (1837-2013; N= 1,052)



Territory	Total Attacks	Fatal Attacks	Last Fatality
Florida	687	11	2010
Hawaii	129	9	2013
California	110	10	2012
S. Carolina	77	2	1852
Texas	38	2	1962
N. Carolina	48	3	2001
Oregon	26	0	
New Jersey	15	5	1926
Georgia	12	0	
New York	8	0	
Alabama	8	0	
Massachusetts	3	1	1936
Virginia	5	1	2001
Delaware	3	0	
Louisiana	1	0	
Connecticut	1	0	
Mississippi	1	0	
Washington	2	0	
Rhode Island	1	0	
Unspecified	6	0	
USA	1,052	35	2

More shark attacks have occurred in Florida waters than any other U.S. state. 687 attacks, 11 of which were fatal. This is primarily related to the extensive amount of coastline and literally millions of beachgoers, surfers, and divers that utilize Florida's coastal marine waters.

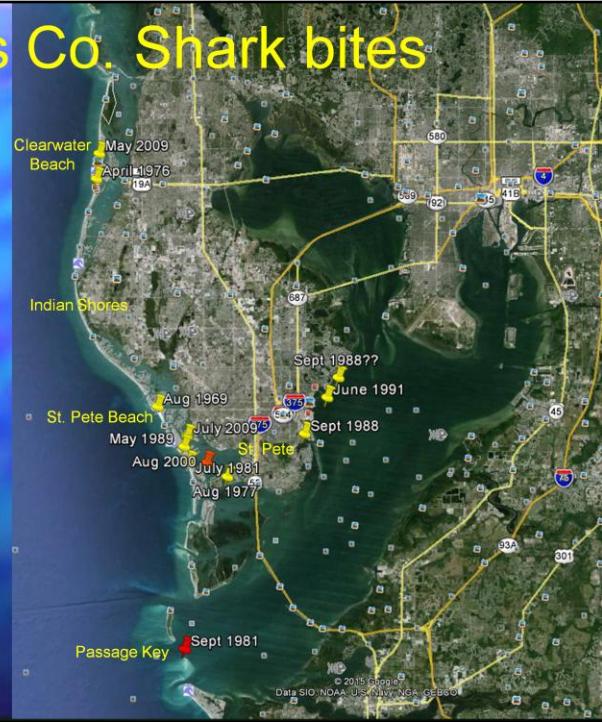


Over 60% of all Shark Attacks in Florida have occurred in either Volusia, Brevard, or Palm Beach counties.

# Pinellas Co. Shark bites

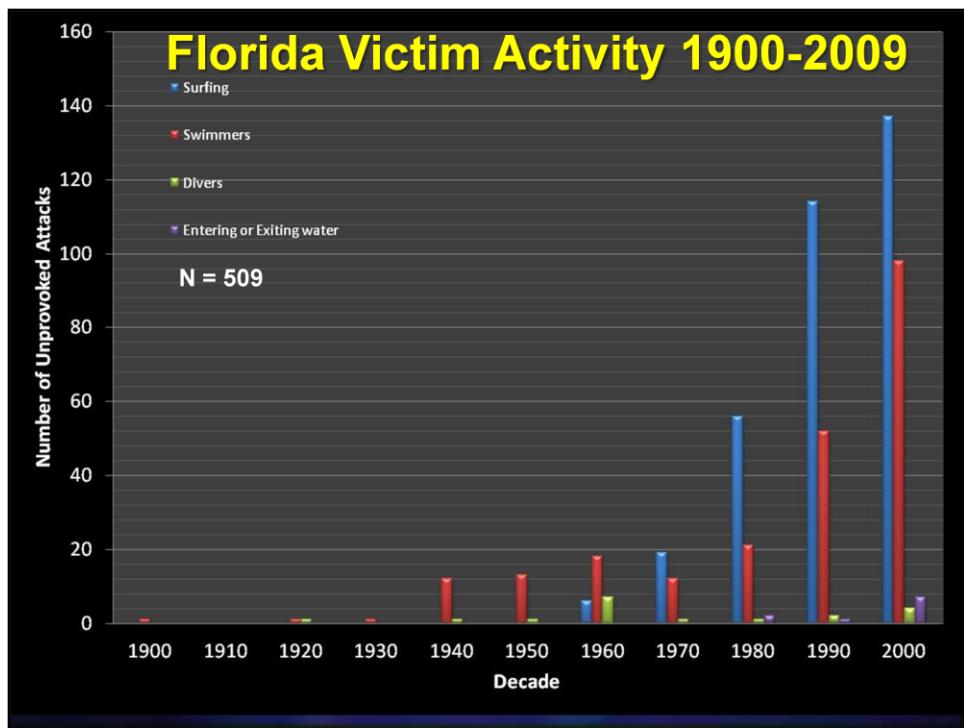
$N = 11$

Since records kept  
 $< 0.08$   
bites/year



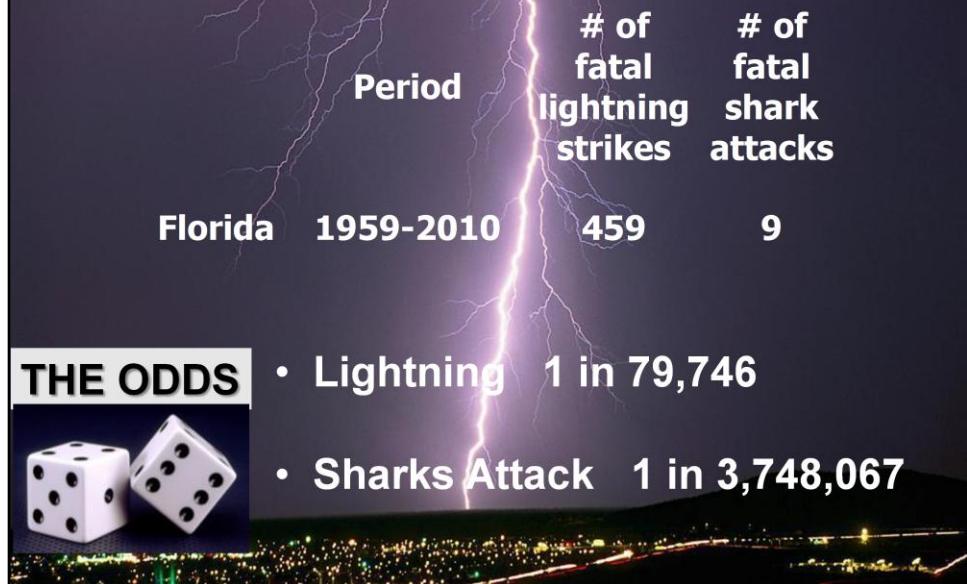
In Pinellas county, there have only been 11 documented shark attacks since the mid-1800s. That averages out to 0.08 bites per year. Shark attacks have occurred in the bay, off the beach, and in intra-coastal areas.

NO SHARK ATTACKS HAVE EVER OCCURRED IN THE INDIAN SHORES AREA.



Human activity is related to frequency of shark attacks. The more time a user group spends in the water, the odds of interacting with a shark increase. Thus, surfers have consistently been victim to shark bites more than any other user group. This also explains why more attacks have occurred in Volusia, Brevard, and Palm Beach counties, because there are popular surfing areas.

# SHARKS vs LIGHTNING



Floridians are much more likely to be struck by lightning than be bitten by a shark. You can refer to the ISAF website for more statistics on relative risks, in relation to shark attacks.