

Hurricanes and Tropical Storms

1. How many hurricanes that were category 4 or 5 made landfall inside the blue box at Padre Island National Seashore, TX?
 - a. Two category 4 hurricanes
2. How many hurricanes that were category 1, 2, or 3 made landfall inside the blue box at Padre Island National Seashore, TX?
 - a. One category 3 and a category 4 hurricane turned into category 3
3. From 1910 to 1999, calculate the return interval of Padre Island National Seashore, TX for all categories of hurricanes. (i.e. consider the number of category 1, 2, 3, 4, and 5 hurricanes)
 - a. The RI is $(1999-1910)/7 = 12.7$
4. How many hurricanes that were category 1, 2, or 3 made landfall inside the blue box at Galveston, TX?
 - a. One hurricane was category 2
5. How many hurricanes that were category 4 or 5 made landfall inside the blue box at Galveston, TX?
 - a. There were 3 category 4 hurricanes
6. From 1900 to 2008, calculate the return interval of Galveston, TX for all categories of hurricanes. (i.e. consider the number of category 1, 2, 3, 4, and 5 hurricanes)
 - a. The RI is $(1910-1900)/4 = 2.5$
7. How many hurricanes that were category 4 or 5 made landfall inside the blue box at Pensacola, FL?
 - a. None
8. How many hurricanes that were category 1, 2, or 3 made landfall inside the blue box at Pensacola, FL?

- a. 3 category 3 hurricanes
9. From 1882 to 2005, calculate the return interval of Pensacola, FL for all categories of hurricanes. (i.e. consider the number of category 1, 2, 3, 4, and 5 hurricanes)
- a. The RI is $(2005-1882)/3$
10. How is damage done by hurricanes in the Gulf of Mexico is an issue that is climatically driven and culturally primed?
- a. Hurricanes in the Gulf of Mexico tend to only make it into the this area in El Nino years.