

Marsh Elevation Monitoring The Nature Conservancy, Long Island NY

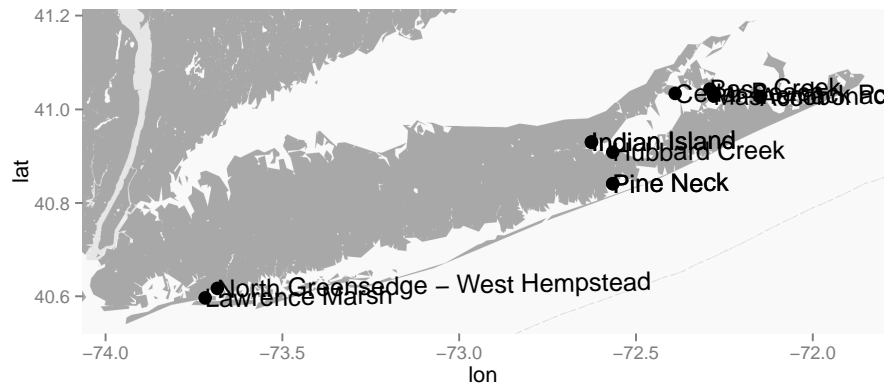
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1 Intro

The following is a quick compilation of the trends that have been measured at sites being monitored by TNC across Long Island. Note that data is not complete and still needs to be verified fully. The rate of the overall change in elevation is calculated by finding the average change in each of 9 pins from the start of the monitoring period to the present. More directly, a linear regression is fit to the height of the pins through time. These lines are then averaged across stations for each site.

Project area:



Tables:

	Site_Name	Stratification	Sample N	Mean_Accretion_Rate	SE_ofmean
1	Accobonac Harbor	Low Marsh	14	2.43	
2	Bass Creek	Low Marsh	15	5.54	
3	Cedar Beach	Low Marsh	9	8.73	
4	Hubbard Creek	Low Marsh	13	4.05	
5	Indian Island	High Marsh	9	2.74	
6	Indian Island	Low Marsh	9	4.48	
7	Lawrence Marsh	Low Marsh	2		
8	Mashomack Point	Low Marsh	9	7.99	
9	North Greensedge - West Hempstead	Low Marsh	2		
10	Pine Neck	High Marsh	8	4.43	
11	Pine Neck	Low Marsh	8	8.46	

Table 1: SET-MH monitoring sites across Long Island

2 Visuals

What follows is a quick visual of the changes that have been measured along the marsh surfaces. The rate of the overall change in elevation is calculated by finding the average change in each of 9 pins from the start of the monitoring period to the present. More directly, a linear regression is fit to the height of the pins through time. These lines are then averaged across stations for each site.

