

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:

```
## Error: cannot open URL 'http://b.tile.cloudmade.com/c669db620b804a3a90fbe4193c4c6ec8/12'
## Error: object 'Site.blankmap' not found
```

Tables:

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.

	Site_Name	Stratification	SET_Type	Sample N	Mean_elevation_change
1	Accobonac Harbor	Low Marsh	Rod SET	14	3.5
2	Bass Creek	Low Marsh	Rod SET	15	4.5
3	Bass Creek	Low Marsh	Shallow SET	2	3.5
4	Cedar Beach	Low Marsh	Rod SET	9	3.5
5	Hubbard Creek	Low Marsh	Rod SET	13	3.5
6	Indian Island	High Marsh	Rod SET	9	3.5
7	Indian Island	Low Marsh	Rod SET	9	3.5
8	Lawrence Marsh	Low Marsh	Rod SET	3	-0.5
9	Lawrence Marsh	Low Marsh	Shallow SET	3	0.5
10	Mashomack Point	Low Marsh	Rod SET	9	3.5
11	Mashomack Point	Low Marsh	Shallow SET	2	3.5
12	North Greensedge - West Hempstead	Low Marsh	Rod SET	3	3.5
13	North Greensedge - West Hempstead	Low Marsh	Shallow SET	3	3.5
14	Pine Neck	High Marsh	Rod SET	8	4.5
15	Pine Neck	High Marsh	Shallow SET	2	4.5
16	Pine Neck	Low Marsh	Rod SET	8	0.5
17	Pine Neck	Low Marsh	Shallow SET	2	0.5

Table 1: SET-MH monitoring sites across Long Island



