

Station #2 SLIPPING, SLIDING AND WASHING AWAY The Geology of Fire Island

Aim: Students will

- Concentrate on the areas of Fire Island which represent the important geological features of the island
- Map the progress of erosion
- Make a time line of hurricanes and the damage done by those hurricanes
- Produce a series of drawings that show the formation of L.I. and F.I. at the end of the last ice age.
- Build a vocabulary list.

Materials:

- 1.) The map produced in station #1 or any reasonable facsimile
- 2.) Large role of cellophane or clear plastic
- 3.) Colored markers
- 4.) Lap top
- 5.) Role of butcher paper or other large paper
- 6.) Pencils and crayons

Protocols:

- 1.) Form your cooperative learning groups.
Suggested Tasks
 - a.) Website finder
 - b.) Paper handler
 - c.) Note takers
 - d.) Drawers
- 2.) Using the suggested websites, (F.I. National Seashore), research and take notes on the geological features of F.I.
- 3.) Overlay a sheet of plastic on your F.I. map and plot the changes in F.I. in the last 100 years.
- 4.) Make a list of the most devastating hurricanes to hit F.I. and produce a timeline indicating name of hurricane, date, and

damage done. This can be placed along the bottom of the acetate overlay.

- 5.) Make a table indicating the major types of erosion on F.I. and the measures taken to slow it down.
- 6.) Produce a series of drawings that show how L.I. and F.I. were formed at the end of the last ice age.

www.nps.gov/fiis/naturescience/naturalfeaturesandecosystems.htm

Geology

pubs.usgs.gov/of/2003/of03-439/html/fiis.html

Geology

people.hofstra.edu/J_B_Bennington/research/long_island/li.htm

Geology

www.babylonvillage.com/fire-island-lighthouse/history.html

www.villageofoceanbeach.org/obhist01.htm History

www.villageofoceanbeach.org/obhist01.htm

www.fireislandtides.com