

A Day in the Classroom – 100 Years of Coastal Change

Building Geospatial Skills and Watershed Stewardship

Nordica C. Holochuck, Sea Grant Extension Specialist
New York Sea Grant, Kingston, NY

Susan B. Hoskins, Senior Extension Associate
Cornell University, Ithaca, NY

Habitat Stewardship

Fostering an understanding of coastal resources encourages watershed stewardship.

"This is timely and useful information and a wonderful way to distribute needed information to build stewards of the harbor across citizenry; enlist teachers to enlist students"- Teacher Evaluation (NYC)

Landscape Visualization

Maps and airphotos, tools of Geospatial Science, provide a window to the past, a snapshot of the present and vision of the landscape of the future.



"I found today's information valuable- I will use the Soundview site as a unit this summer- starting with a field trip there"- Teacher evaluation (Bronx)



NY Times

Data Synthesis

Integrating technical data and narrative reports, educators collaborate to tell the story of a changing urban coastline.

Technical Skill Building

Learning the language of geospatial data builds math, science and technology skills.



K-8 SCIENCE SCOPE & SEQUENCE

NYC

Department of Education

Unit 1: Ocean

Grade 4: Earth and Space Science

Grade 5: Earth and Space Science

Grade 6: Earth and Space Science

Grade 7: Earth and Space Science

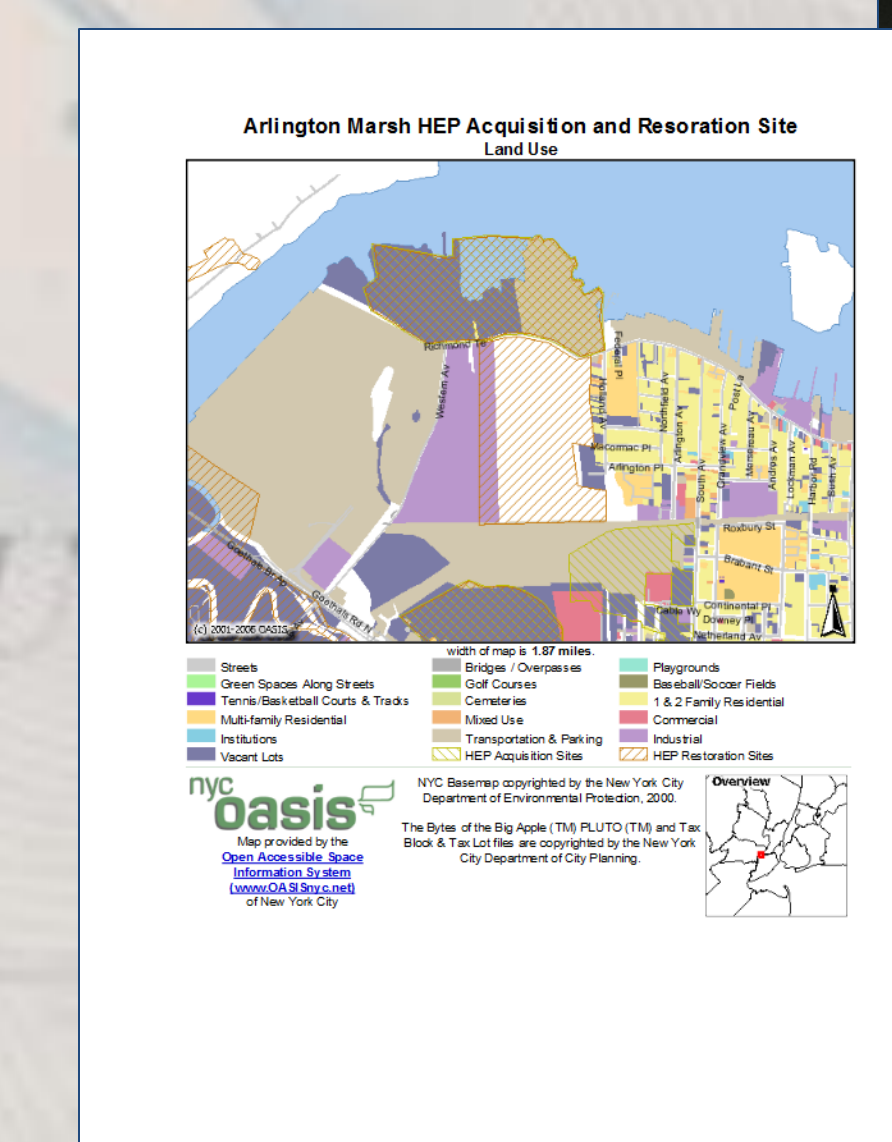
Grade 8: Earth and Space Science

Grade 9: Earth and Space Science

Grade 10: Earth and Space Science

Grade 11: Earth and Space Science

Grade 12: Earth and Space Science



Site Characterization Exercise

Characterize the shoreline of your site at the turn of the century, ca 1900. How has the shoreline changed over the past 100 years?

Are these natural changes or human-influenced?

Describe the land use changes adjacent to the site over time.

How do you think changes in shoreline and adjacent land use impact the value of the estuary habitats?

For Information contact:



Nordica C. Holochuck
nch8@cornell.edu
(845) 340-3983



Susan B. Hoskins
sbh1@cornell.edu
(607) 255-4864

Funding provided by:

USEPA NYNJ Harbor Estuary Program

