Appendix I

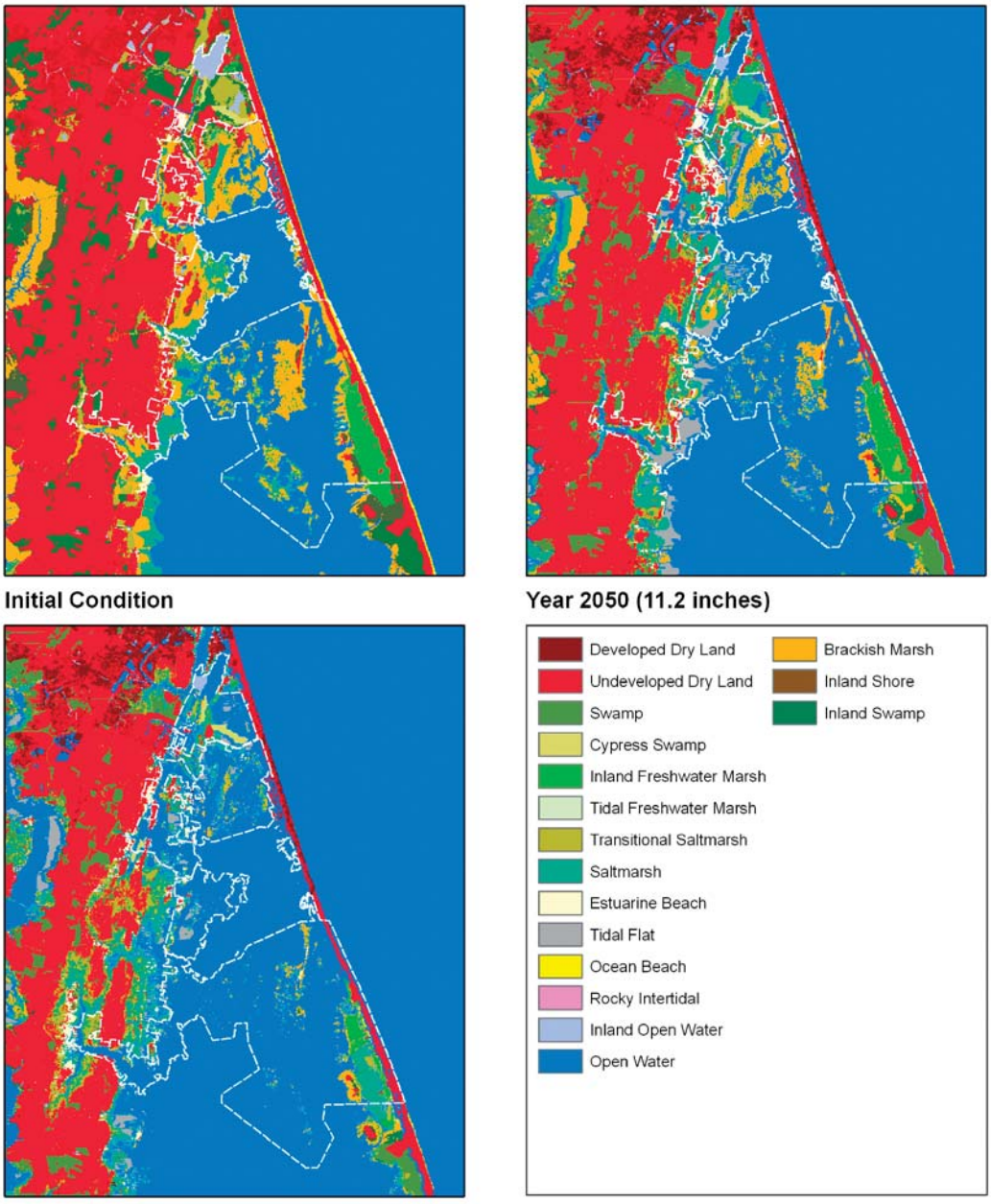
USFWS

Daily sea turtle patrols search for this—a sea turtle crawl. Will it lead to a nest or not?

Back Bay National Wildlife Refuge SLAMM Analysis Report

Back Bay National Wildlife Refuge
SLAMM Analysis Report

In 2008, the National Wildlife Federation (NWF) analyzed the projected habitat effects of sea-level rise in Chesapeake Bay using a model called "SLAMM" (Sea Level Affecting Marshes Model). At the request of the Conservation Biology Program, National Wildlife Refuge System, NWF parsed out data and maps for several refuges. This document provides the maps and data for Back Bay National Wildlife Refuge.

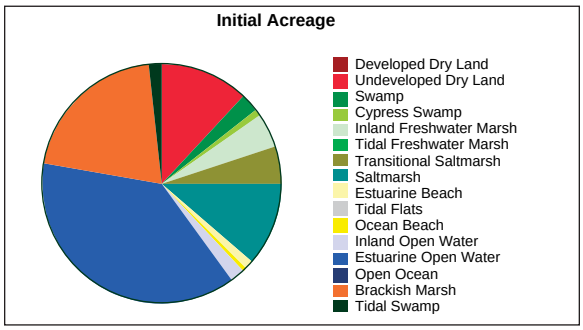


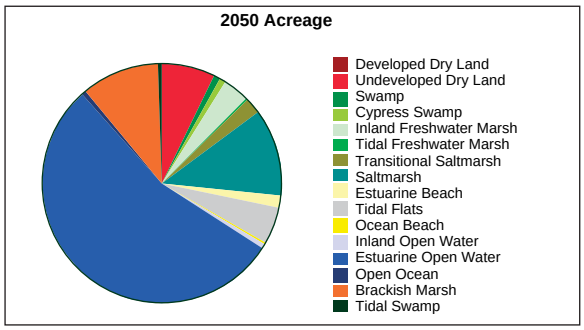
Backbay National Wildlife Refuge

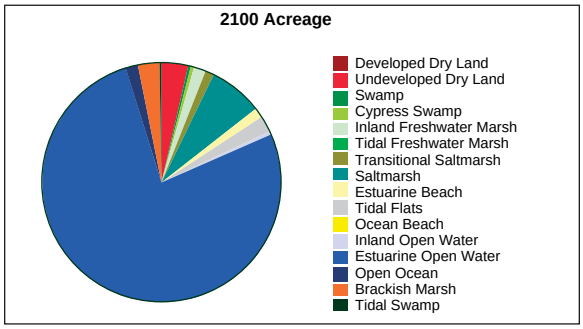
Back Bay National Wildlife Refuge, SLAMM Analysis Data

SLAMM Code	Initial Acreage	2050 Acreage	2100 Acreage	Initial Percent	2050 Percent	2100 Percent
Developed Dry Land	2.42	2.78	2.50	0.01	0.02	0.02
Undeveloped Dry Land	1957.43	1184.77	585.29	12.04	7.29	3.60
Swamp	410.90	124.27	24.76	2.53	0.76	0.15
Cypress Swamp	128.47	127.05	124.90	0.79	0.78	0.77
Inland Freshwater Marsh	731.74	615.69	267.93	4.50	3.79	1.65
Tidal Freshwater Marsh	1.56	1.56	0.67	0.01	0.01	0.00
Transitional Saltmarsh	845.64	395.49	179.15	5.20	2.43	1.10
Saltmarsh	1840.14	1878.45	1185.17	11.32	11.55	7.29
Estuarine Beach	178.39	294.54	212.72	1.10	1.81	1.31
Tidal Flats	0.00	806.99	334.75	0.00	4.96	2.06
Ocean Beach	101.22	48.45	27.19	0.62	0.30	0.17
Inland Open Water	327.17	59.25	56.84	2.01	0.36	0.35
Estuarine Open Water	6108.97	8833.75	12511.55	37.57	54.33	76.95
Open Ocean	15.12	93.15	247.75	0.09	0.57	1.52
Brackish Marsh	3354.88	1703.36	472.53	20.63	10.48	2.91
Tidal Swamp	255.82	90.32	26.14	1.57	0.56	0.16
Total	**16259.85**	**16259.85**	**16259.85**	**100.00**	**100.00**	**100.00**

Pie Chart Analysis – Legend Identical to Map Legend







Acknowledgements. Patty Glick, Global Warming Specialist, National Wildlife Federation, Seattle; Brad Nunley, GIS Specialist, National Wildlife Federation, Atlanta.

For more information: Brian Czech, Conservation Biologist, U.S. Fish and Wildlife Service, National Wildlife Refuge System, 4401 N. Fairfax Drive, MS 670, Arlington, VA, 22203, 703-358-2485, *brian_czech@fws.gov.* For SLAMM methods and specifications see: *http://www.nwf.org/sealevelrise/pdfs/SeaLevelRiseandCoastalHabitats_ChesapeakeRegion.pdf*