Maps and Models to Support Adaptation Planning in Coastal New Hampshire

Adaptation Maps

	Lamprey River 100-year Floodplain	Sea-Level Rise for Coastal NH
Example	100-Year Floodplains in the Lamprey River Watershed:	All Control of the Co
	Flood Insurance Rate Maps (Films), Updated (2005) Conditions, and 2100 Conventional Buildout Durham/Route 198 Corridor Panel The Corridor Panel	
Purpose(s)	To update 100-year floodplain maps using current land use and climate data, and potential future land use, and climate variables.	 To assess changes in the 100-year stillwater flood elevations caused by sea level rise To show the spatial impact of stillwater flood elevations of 6, 9, and 12 feet above high tide on coastal NH
Findings	 Future climate and land use scenarios show major increases in height of flooding, but changes for many areas are contained within riverbanks. Overall, small but significant increases in total floodplain area. VT Law School determined that municipalities have full legal authority to use these and other maps in regulations and decision-making. 	 At New Castle, NH, current 100-year flood stillwater elevation is 11.2 feet above NAVD88. Current estimates of sea level rise range from 1.0-1.7' by 2050, and 2.5 -6.3' by 2100. Current estimates of 100-year flood stillwater elevations range from 12.2-12.7' by 2050, and 13.7-17.5' by 2100 Future 100-year floods result in a significant increase in flooded areas (shown on maps)
Applications	 Guide siting of future development Inform infrastructure investments Emergency management planning Support planning at both municipality and watershed level 	 Background information for vulnerability assessment Support planning in coastal communities
Availability	Summer 2012	Fall 2012
For more information	www.100yearfloods.org http://www.granit.unh.edu/MapLibrary/ProjectMaps	http://carbonsolutionsne.org/ http://www.granit.unh.edu/MapLibrary/ProjectMaps
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Adaptation Modeling Tools

