

## Coastal Adaptation Workgroup WORKSHOP #4 – Thursday, March 29, 2012

Presentation by Dr. Cameron Wake of 'Climate Change in the Piscataqua/Great Bay Region: Past, Present, and Future'

The full Piscataqua/Great Bay Report and additional New England climate change information are available online at [CarbonSolutionsNE.org](http://CarbonSolutionsNE.org)

### RESULTS OF World Café discussion groups

*QUESTION: How might the region - where you live, work and play – be influenced by projected changes in climate?*

#### Water Systems

##### *Flood damages, costs*

Snowmelt loss, base flow/soil decrease  
Less/more road salt

##### *Seasonal recreation loss/gains*

Base flow/GW to wetlands and rivers  
Less frozen conditions = Recharge

##### *Drought and Fire*

*Aquifer, groundwater recharge*

*Drinking water supply*

*Infrastructure damage, costs*

#### Ecosystems

##### *Species loss, change*

Changed migration, ecological patterns  
Change in habitat type/composition

Forests impacts, loss of maple syrup

##### *Increased invasive species and insects*

Loss of pollinators; phenology changes

##### *Change in agriculture, food production +/-*

*Impacts to rivers and aquatic habitats*

Impacts to marine systems

*Impacts of air and water pollution*

Longer growing seasons

### Projected Changes

(discussion group topics)

#### Health/Disease

#### Extreme Temperature

#### Coastal Flooding

#### Environment/Ecosystems

#### Loss of Winter

#### Fresh-water Flooding

#### Human Systems/Quality of Life

*Disease, illness, heat impacts*

*Water and air quality impacts*

Vulnerable populations/social instability

Loss of tourism economy

*Reduced heating costs*

*Increased cooling costs*

Population migration/displacement

Local socio-economic shifts

Property loss/tax revenue loss

Coastal history/culture threatened

Urban renewal/reconstruction funds

*Infrastructure loss/costs*

Need to plan for future

Stress on essential services/infrastructure

Local renewable energy production

Energy use, production, planning, conservation

*Food production opportunities*

Note: Issues that are bold/italics were common to each to the topic areas.