



### North Coast

- Fastest warming in Canada
- Erosion due to loss of winter ice cover
- Thickness, extent, duration of sea ice, permafrost
- Sea ice ecosystems
- Food / water security, safety, traditional livelihoods
- Damage to infrastructure on permafrost, coasts
- Greater navigational access
- New building standards
- Adaptation exchanges, consortiums, community-based research
- Community adaptation plans
- Studying changing sea ice, traditional knowledge

### West Coast

- Extreme weather, precipitation
- Sea level rise, flooding
- Ecosystems, shellfish aquaculture
- Species moving North, salmon survival
- Seagrass, kelp habitat
- Damage to coastal infrastructure
- Urban heat waves, loss of traditional foods
- Coastal protection and land use policies to adapt to sea level rise
- Regional flood planning, marine planning
- Studying impacts to First Nations traditional foods
- Shoreline armoring, sea walls, nature-based restoration

### East Coast

- Storms, extreme weather
- Sea level rise, flooding
- Erosion of soft shorelines, loss of ice cover
- Ecosystems, shellfish aquaculture
- Species moving North
- Damage to coastal homes, road and rail infrastructure
- Uncertain conditions for shipping, fishing
- Saltwater intrusion into drinking water
- New construction & land use regulations
- Knowledge exchanges, mainstreaming
- Community adaptation plans
- Cost-benefit analyses, Gas Tax funding

### Great Lakes - St. Lawrence River

- Coastal erosion
- Uncertainty in future lake levels
- Less sea and lake ice
- Extreme weather and storm surge
- Invasive species
- Damage to coastal infrastructure, property values
- Greater navigational access
- New land use and stormwater management regulations
- Capacity-building initiatives focused on protecting, restoring, and adapting
- Mapping impacts to inform localized adaptation strategies
- Cost-benefit analyses, insurance instruments, alternative financing

### Map Legends

#### COASTAL CLIMATE CHANGE IMPACTS

- Temperature Increases
- Extreme Weather
- Changing Water Levels
- Coastal Erosion
- Ocean Acidification
- Less Sea / Lake Ice
- Human Well-Being
- Coastal Infrastructure
- Coastal Industries
- Shifting Species Distributions
- Marine Habitat Impacts

#### COASTAL ADAPTATION ACTIONS

- Regulations and Policy
- Capacity-Building
- Data and Research
- Management and Planning
- Economic Measures
- Structural Adaptation