

ATTACHMENT 5

LSPA Climate Change Subcommittee, October 2022

MCP Climate Change Toolkit

Climate Change Technical Resources

1 MA Climate Change Clearinghouse

ResilientMA.org

- Provides “best science and data on expected climate changes”
- Multi-model climate forecasts developed by Northeast Climate Adaptation Science Center – UMass Amherst (NECASC)
- Links to [SHMCAP](#), [MVP](#), [Interactive Map & Tutorial](#), [Data Graphed & Tutorial](#)

2 Resilient MA Action Team

[RMAAT Home](#) (DRAFT Climate Resilience Design Standards & Guidelines)

- [Project Overview](#)
- [RMAAT Fact Sheet](#)
- [Project Inputs and Risk Rating Output](#)
- [Climate Resilience Design Standards Outputs and Relationships for Sea Level Rise/Storm Surge, Precipitation, and Heat](#)
- [Guidelines and Best Practices Framework](#)

3 Massachusetts Office of Technical Assistance and Technology (OTA)

- [Mapping Toxics in Communities and Assessing Climate Vulnerability](#)
 - Provides maps with various “sensitivity” layers

4 Sustainable Remediation Forum (SURF)(EcoAdapt, BU, MassDEP)

- [Massachusetts Climate Change and Hazardous Waste Site Screening, 2019](#)
 - “Exposure” models for floods, hurricanes, SLR (FEMA, NOAA)
 - Incorporated environmental, demographic and 21E site-specific “Sensitivity” parameters (e.g., Open, Active, AEPMM, IH, CEP, AUL)

5 Interstate Technology & Regulatory Council (ITRC) -

- [Sustainable and Resilient Remediation \(SRR\) Team](#)
- [Final Guidance published 4/21](#)
 - Resilience BMPs

6 USEPA -

- [Superfund Climate Resilience webpage](#)
 - Vulnerability Assessment
 - Resilience Measures
 - Adaptive Capacity
- [Climate Smart Brownfields Manual](#) 6/21, EPA 560-F-21-002
- [Climate Adaptation Plan](#) 10/21, EPA 231-R-210-01

7 White House

- [Fact Sheet](#) 10/21, Adaptation and Resilience Plans from Across Federal Government

8 MassDOT, WoodsHole, UMassBoston -

- [Summary of Pilot Project Report:](#)
 - Climate Change and Extreme Weather Vulnerability Assessments and Adaptation Options for the Central Artery, 2015
 - Probabilistic Hydrodynamic Modeling (ADCIRC, SWAN)
- [Massachusetts Coast Flood Risk Model \(MC-FRM\):](#)
 - Includes every Massachusetts coastal city and town influenced by future coastal storm surge induced flooding during this century

9 First Street Foundation -

- [Defining America's Flood Risk](#)
 - Collaboration of 80 of the world's leading hydrologists, researchers and data scientists
 - Property-by-property flood forecast maps for whole country (LISFLOOD-FP, GeoCLAW, ADCIRC-SWAN)

10 US DHS - FEMA

- [National Risk Index](#)
 - Natural hazard risk metrics for 18 natural hazards
 - County and census tract level

11 MA - CZM

- [Massachusetts Sea Level Affecting Marshes Model \(SLAMM\) Viewer](#)
 - Effects of SLR on marshes

12 ASTM

- [Standard Guide for Remedial Action Resiliency to Climate Impacts](#)
 - ASTM E3249 - 21