

FRESH COAST BEST COAST

MICHIGAN COASTAL MANAGEMENT PROGRAM

2021 Grant Awards

The Department of Environment, Great Lakes, and Energy, Water Resources Division, Michigan Coastal Management Program (MCMP) is awarding \$1,041,096 in grant funds to coastal partners for 12 grant projects and statewide initiatives. The MCMP is committed to provide creative grant funding to support the efforts of coastal communities, non-profit organizations, universities, and Tribal governments to protect, preserve, restore, enhance, and wisely develop our coastal resources along the longest freshwater coastline in the nation.

The MCMP was approved by the National Oceanic and Atmospheric Administration in 1978, under the Federal Coastal Zone Management Act. The MCMP provides technical and funding assistance to Michigan's coastal communities for land use plans, zoning ordinances, and other local policies and programs that balance community growth with protection of coastal natural and maritime heritage resources, reduces risks from coastal hazards, and encourages commerce and recreation focused on the Great Lakes coast. The MCMP promotes Federal, State, and local government coordination.

Statewide Initiatives

Project: Resilient Michigan Collaborative

Partner: Land Information Access Association (LIAA)

Grant Amount: \$60,000 grant/\$60,000 match

Grant Timeframe: January 1, 2021 - December 31, 2021

Location: All Michigan's coastal communities.

Project Description: In collaboration with the MCMP, LIAA will assist coastal communities to become resilient through the Resilient Michigan Collaborative Initiative. The MCMP and LIAA will conduct a coordinated outreach on the Initiative; LIAA will recruit and assist participating coastal communities to conduct a sustainability assessment of municipal plans and regulations and generate recommendations for revisions, amendments, or additions that will help the participating communities increase their ability to anticipate, accommodate, adapt, and thrive amid dynamic and changing conditions.

Program Contact: [Madeleine Gorman](#), Coastal Waters Coordinator

Project: Coastal Hazard Resiliency Strategy

Partner: Land Information Access Association (LIAA)

Grant Amount: \$50,000 grant/\$0 match

Grant Timeframe: January 1, 2021 – June 30, 2021

Location: All Michigan's coastal communities.



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

Michigan's Coastal Management Program is funded, in part, through the National Oceanic and Atmospheric Administration, which supports a nationwide network of state-federal partnerships protecting America's fresh and saltwater coasts.



Project Description: In collaboration with the MCMP, the LIAA will assist in the Hazard-ready Communities Resiliency Strategy by developing model zoning ordinances intended to promote the resilient stewardship of Michigan's coastline. The model ordinances will be included into the MCMP Resilient Coastal Communities Planning guide currently under development.

Program Contact: [Matt Warner](#), Coastal Hazards Coordinator

Project: Coastal Hazard Resiliency Strategy

Partner: Michigan Technological University (MTU)

Grant Amount: \$60,017 grant/\$0 match

Grant Timeframe: January 1, 2021 – June 30, 2021

Location: All Michigan's coastal communities.

Project Description: In collaboration with the MCMP, the MTU will assist in the Hazard-ready Communities Resiliency Strategy through the development of the Historic Coastline Viewer. The viewer provides users with data on the degree of shoreline change by establishing an interface between contemporary coastal imagery and enable the digitization of coastal features in a web-accessible feature layer through a variety of applications. The viewer will be highlighted in the MCMP Resilient Coastal Communities Planning guide currently under development.

Program Contact: [Matt Warner](#), Coastal Hazards Coordinator

Project: Coastal Leadership Academy

Partner: Michigan Association of Planning (MAP)

Grant Amount: \$80,000 grant/\$0 match

Grant Timeframe: January 1, 2021 – December 31, 2021

Location: All Michigan coastal communities.

Project Description: In collaboration with the MCMP, MAP is developing the Coastal Leadership Academy (CLA). The purpose of the CLA is to develop a technical training program for bringing community leaders and decision-makers together in a collaborative environment for collectively learning. A combination of education and applied learning will help underscore the critical hazards facing the community and prepare participants to collaborate and problem solve for more informed local decision-making. A statewide and a regionally focused workshops will be conducted in 2021.

Program Contact: [Madeleine Gorman](#), Coastal Waters Coordinator

Project: Nearshore Sediment Transport Study

Partner: Michigan State University (MSU)

Grant Amount: \$100,000 grant/\$0 match

Grant Timeframe: April 1, 2021 – December 31, 2021

Location: Ludington, Saugatuck, and South Haven.

Project Description: In collaboration with the MCMP, MSU will research sediment transport pathways along three coastal communities, (e.g., Ludington, Saugatuck, and South Haven), along the Lake Michigan coastline. The purpose of the research is to gain a better understanding of the physical (environmental) conditions the contribute to erosional loss of sand from beaches, dunes, and bluffs; identify the short-term (event to annual) fate of sand that is liberated from coastal landscapes,

and identify the controlling processes and coastal characteristics (e.g., lake conditions, geological framework, type and extent of shore protection/development); develop a conceptual model of the processes and controls of how sand moves throughout representative coastal sites; incorporate the conceptual model with aerial photographic analyses of coastal change over the last decade to infer sediment transport rates and processes during the recent rise in the lake levels; and utilize these analyses to develop a simple probabilistic model that forecasts how sediment transport and subsequently coastal landscapes might change if lake level were to fall to pre-2013 levels or rise even higher than current record high levels.

The ultimate goal for this work is to better understand what happens to sand once it is eroded from beaches, dunes, and bluffs during high lake level phases and storm events. The data and information gleaned from this project will be scalable to other sites throughout Michigan and will be prepared in formats that can be readily utilized in decision-making and planning processes.

Program Contact: [Matt Warner](#), Coastal Hazards Coordinator

Coastal Planning Grants

Project: St. Clair/Macomb Coastal Birding Trail

Partner: St. Clair County Metropolitan Planning Commission

Grant Amount: \$13,200 grant/\$13,200 match

Grant Timeframe: January 1, 2021 – March 31, 2022

Location: St. Clair County; Warren District Office.

Project Description: The project supports the Coastal Community Development (CCD) focus area preference for projects that protect coastal natural resources, encourage coastal dependent recreation, and promote activities that contribute to a community's sense of place. The St. Clair County Metropolitan Planning Commission will work with Macomb County, Detroit Zoo, Great Lakes Audubon, and several other partners to establish and promote a birding trail on the coast of southern Lake Huron, Lake St. Clair, and the St. Clair River. The project team will identify up to 30 sites currently open to the public that are popular with birders and produce a report with a description of each site addressing habitat, species list, amenities, and suggestions for improvements, including design ideas for birding platforms. The team will also develop a trial field guide and other hardcopy/online promotional materials for use by the project partners. The project will culminate with two public events to promote the new trail, one in St. Clair County and the other in Macomb County.

Program Contact: [Weston Hillier](#), Public Access Coordinator

Project: St. Clair Waterfront Redevelopment Plan

Partner: Charter Township of East China

Grant Amount: \$25,000 grant/\$25,000 match

Grant Timeframe: January 1, 2021 – March 31, 2022

Location: Charter Township of East China; Warren District Office.

Project Description: This project supports the CCD focus area preference for redevelopment plans to manage growth in urban waterfront areas. East China Township in St. Clair County will prepare a waterfront redevelopment plan for a portion of the community along the St. Clair River. The project area contains a township park and several undeveloped properties owned by the township, privately owned properties, and a DTE coal-fired power plant slated for decommissioning in the near future.

East China Township will develop the plan to guide the community's efforts to redevelop a substantial area of industrial land on the waterfront and encourage economic vitality, low-impact development, sustainable design, efficient circulation, environmental restoration, and enhanced opportunities for recreation along the riverfront.

Program Contact: [Weston Hillier](#), Public Access Coordinator

Low-Cost Construction Grants

Project: Pottawattomie Park Beach Restoration and Enhanced Public Access

Partner: Grand Haven Charter Township

Grant Amount: \$140,000 grant/\$140,000 match

Grant Timeframe: March 1, 2021 – March 31, 2022

Location: Grand Haven Charter Township; Grand Rapids District Office.

Project Description: To support vibrant, healthy, and resilient communities, Grand Haven Charter Township will stabilize and restore coastal habitat utilizing natural and nature-based solutions and enhance public access to the waterfront by installing a redesigned boardwalk, fishing dock, and universally accessible kayak launch.

Program Contact: [Weston Hillier](#), Public Access Coordinator

Project: Weko Beach Dune Restoration and Stabilization

Partner: City of Bridgman

Grant Amount: \$75,000 grant/\$75,000 match

Grant Timeframe: January 1, 2021 – March 31, 2022

Location: City of Bridgman; Kalamazoo District Office.

Project Description: To support vibrant, healthy, and resilient communities, the city of Bridgman will conduct restoration of critical dune habitat and protection of public infrastructure by: planting native dune grass; installing snow fencing; improving the managed public trail system; and installing sheet pile to replace sections of the failing retaining wall along the western and northern base of the south dune to protect the public boardwalk.

Program Contact: [Karen Boase](#), Coastal Habitat Coordinator

Project: Marquette Coastal Resiliency Natural Infrastructure Restoration

Partner: City of Marquette

Grant Amount: \$200,000 grant/\$202,851 match

Grant Timeframe: January 1, 2021 – March 31, 2022

Location: City of Marquette; Marquette District Office

Project Description: To support vibrant, healthy, and resilient communities, the city of Marquette will restore a critical section of severely impacted urban coastline in the city of Marquette with natural infrastructure including coastal wetlands, dune and swale, and upland habitat. The proposed project will support public use and enjoyment through the improved public access, and the restored wetlands will provide flood storage capacity during coastal storm events and will capture storm water runoff. This project will restore over 1,200 linear feet of coastal habitat (approximately 7.9 acres)

and will serve as the linchpin to reconnect 10 acres of pristine coastal wetlands to the south and 34 acres of coastal habitat to the north. All totaled, this project will reconnect over one mile of critical Lake Superior coastal habitat.

Program Contact: [Karen Boase](#), Coastal Habitat Coordinator

Project: Maheras-Gentry Habitat Restoration

Partner: City of Detroit

Grant Amount: \$200,000 grant/\$200,000 match

Grant Timeframe: April 1, 2021 – March 31, 2022

Location: City of Detroit; Warren District Office.

Project Description: To support vibrant, healthy, and resilient communities, the city of Detroit will conduct restoration of coastal habitat, utilizing natural and nature-based solutions and installation of interpretative signage. The proposed project is restoring a portion of Maheras-Gentry Park's shoreline habitat situated along the Detroit River with approximately 1,150 linear feet of river frontage consisting of upland, wetland, and aquatic habitats.

Program Contact: [Karen Boase](#), Coastal Habitat Coordinator

Project: Grand Haven Lighthouse Restoration

Partner: City of Grand Haven

Grant Timeframe: April 1, 2021 – March 31, 2022

Grant Amount: \$37,879 grant/\$37,879 match

Location: City of Grand Haven; Grand Rapids District Office.

Project Description: To encourage coastal tourism and foster appreciation of Michigan's historic and culturally significant coastal resources, the MCMP will invest in the restoration of the Entrance Light (lighthouse) in the city of Grand Haven on the shores of Lake Michigan. Restoration of the lantern room will provide a weather-tight seal to the entire lighthouse structure, allowing for public visitation and exhibits.

Program Contact: [Weston Hillier](#), Public Access Coordinator

For more information, visit the Michigan Coastal Management Program web page:

Michigan.gov/CoastalManagement.

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