

Emergency Management

The impacts caused by natural disasters and climate change effects can be enormous. That is why planning and preparation are essential to ensuring you can meet the needs of your community. Marstel-Day can help you prepare for emergency situations in a changing world with insightful planning that provides you with a realistic assessment of your environmental vulnerabilities. We are experienced in helping organizations develop mutually beneficial partnerships that leverage strengths, share costs, and optimize outcomes. We can provide you with the tools needed to better understand your risks, identify methodologies to manage that risk, and implement methods to reduce risk to your region. Our expertise includes:

Emergency Management Planning and Climate Change Risk Assessment

Long-range planning can be difficult and full of uncertainty. We work with clients, their partners, and the community to analyze factors such as climate change impacts, severe weather events, water and energy resources, and ecosystem services. Together, we develop strategies to address the areas of greatest risk and build effective partnering solutions.

Marstel-Day has worked with many DOD clients to develop long-range plans that identify and address current and potential climate impacts, including the probability of impacts from a natural disaster.

In addition to conducting direct research and analysis, we have facilitated collaborative meetings between our clients, partner agencies, and the public to identify risks and develop partnerships that benefit all parties and the community. This work has resulted in collaborative relationships that serve to strengthen client capabilities, provide cost-savings, and build community resilience.

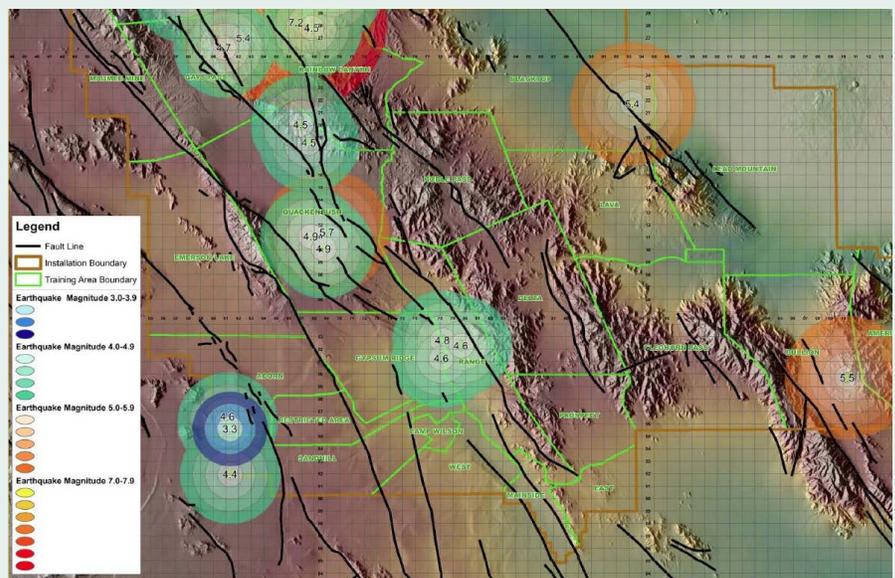
Emergency Management Tools

Marstel-Day's team of planners, facilitators, scientists, and technicians can provide your organization with an accurate assessment of your risks resulting from natural disasters and climate change using both quantitative and qualitative analysis. We have developed tools that can provide value to your operations by increasing efficiency in decision making, discovering new risks to your mission, and delivering training across your enterprise more effectively. Our areas of expertise include:

GIS Analysis Our GIS professionals can help you identify your assets, model natural disasters and climate change in your region, and quantify these impacts to specific assets. Marstel-Day has used these models for many clients to identify at-risk assets and find solutions to mitigate challenges through infrastructure investments and partnerships other organizations.

Wargame/Exercise Support

Environmental Wargaming is an interactive simulation of events, strategies, policies, and attitudes following a scenario played out by key stakeholders. Nations, states, military leaders, NGOs, and local populations interact in a globalized, interconnected world where rapid, often disruptive, change is the norm. This exercise enables clients to envision a wide range of alternative futures to better adapt to climate change, withstand shocks, and endure disruption.



Training Events and Materials Marstel-Day has organized many training events, conferences and developed training manuals and content for our clients. This includes the production of training videos, computer-based training modules, and desk references on a variety of topic areas including emergency management. Marstel-Day most recently created a computer-based training module for the Air Force's encroachment management program. This training was easily distributed to program staff and provided an update to existing guidance and procedures.

Emergency Management Risk Mitigation

Identifying the potential for a disaster to occur and its potential impacts is only the first step in the emergency management process. We also work with clients to identify and carry out actions that minimize the likelihood for the event to occur and to minimize the damage that it may cause if it were to occur. Indeed, a study by the Multi-Hazard Mitigation Council shows that every dollar spent on disaster mitigation saves society an average of four dollars.

To achieve this, we work alone or with partners to:

Conduct Prescribed Burns Marstel-Day can assist you in scheduling and managing prescribed burns to manage fuel loads and improve wildlife habitat. Using this tool can serve to both prevent wildland fires and reduce their severity if they do occur.

Coastal Wetland Restoration Site Selection Marstel-Day can help you determine the optimal site location and manage projects to construct or restore coastal wetland and shoreline habitat to mitigate against sea level rise and storm surge events.

Past Performance

Marstel-Day recently completed the Air Force Emergency Management Program Roadmap to Community Partnerships. This document provided our client with a proven process for engaging stakeholders and building collaborative relationships. We identified several pathways to action that were tailored to our client's mission, operating procedures, security needs and available resources. Using this roadmap our clients can strengthen their capabilities and develop sustainable outcomes.

Contract Information

**USACE, Mobile District
Regional Environmental Acquisition
Tool, Pool A (Conservation/NEPA)**

**Contract number:
W91278-16-D-0006 (Small Business)**

Period of Performance:
7 Jan 2016 – 6 Jan 2021

Contact: Brian Peck | 251-690-2750

GSA Consolidated Schedule

Contract Number: GS00F070CA

Period of Performance:
16 Mar 2015 – 15 Mar 2020

FACTS II (Subcontractor to Flatter, Inc)

Contract Number: HSHQDC-16-D-P2003

Contact: Oliver Chiang | 540-735-4428

Our past work includes:

- Created visualizations of customized storm surge and sea level rise models depicting inundation along coastal ecosystems and recommending risk mitigation projects such as coastal wetland or shoreline restoration.
- Facilitated stakeholder partnering through focused mediation for a White House Council on Environmental Quality climate adaptation project.
- Built the Climate and Environmental Action Readiness (CLEAR) Plan for Planning District 16 in partnership with the University of Mary Washington.



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For further information, visit:
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Or find us on the following
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