FY23 ONEGULF PRIORITY NEEDS

Community Resilience, Estuarine & Coastal Environments

Texas OneGulf is a consortium of nine research institutions funded, in part, with federal funding from the Department of the Treasury through the State of Texas (Texas Commission on Environmental Quality) under the RESTORE Act. Our mission is to improve understanding of the Gulf of Mexico large marine ecosystem and its effects on human health and well-being to support a healthy environment and communities in Texas, the Gulf and beyond. The vision of Texas OneGulf is to become a trusted source of scientific information about the Gulf of Mexico, especially to Texas decision-makers. OneGulf has established the Texas OneGulf Network of Experts (TONE), which consists of more than 150 scientists, policy experts and researchers to provide a trusted resource for information and science-driven solutions.

In support of the OneGulf vision, the consortium also has created the Texas OneGulf Agency Council to better inform priority decision-making needs and the development of projects. The Council is composed of agency leadership from Texas Commission on Environmental Quality, Texas Division on Emergency Management, Texas General Land Office, Texas Parks and Wildlife Department and Texas Water Development Board. Drawing from the Texas OneGulf Strategic Research and Action Plan, the Council has identified the following priorities.

Community Resilience Focus Area:

- *Risk Communication:* What are the top performing methods in disaster risk communications, focusing on misinformation, public distrust and social media, to minimize the impacts of disasters on human communities?
- *Prioritizing Mitigation Projects:* What analytical tool(s) or scoring mechanism(s)/criteria can best prioritize disaster risk mitigation projects from a state and local perspective, including through identifying data needs and best practices?

Estuarine & Coastal Environments Focus Area:

- *Coastal Stressors:* What methods exist to better understand and address linkages between coastal environmental stressors and human communities, including public health and the economy?
- *Integrated Water Resource Management:* What strategies of Integrated Water Resource Management (IWRM), from a flood and water supply perspective, can be applied in Texas to enhance the health of Texas estuaries and the Gulf?

We seek assistance from teams with diverse expertise, including biogeophysical and social sciences, policy, communication and engagement to co-produce knowledge and inter/transdisciplinary, intersectoral solutions to these challenges.