

**SAME Resilience COI's Proposed IGE Project:
Climate Change:
Sea Level Rise in Coastal Regions and its Effect on Military and other Public
Infrastructure
September 13, 2021**

I. Submitter information:

- Resilience COI (RCOI) – Lead by Albert Romano, ATCS, RCOI Chair. Team members include:
 - Get Moy, AECOM
 - Mike Pampalone, ICF
 - Joe Manous, USACE
 - Jay Manik, CDMSmith
 - Regina Majercak, FEMA Resilience Office & Region III
 - Luke Young, AECOM

II. Willingness to champion the issue (commitment statement or proposed champion):

- The RCOI is committed to developing, promoting, and implementing resilience best practices for physical infrastructure and communities. We are doing so through various means, including:
 - Increasing awareness & education.
 - Supporting research.
 - Leading forums where solutions and innovations are discussed and promoted.
 - Bringing together thought leaders and subject matter experts.
 - Collaborating with public sector agencies, private sector, and academia.
 - Engaging SAME members and other COIs.

III. Impact (advocacy, education):

- *Resilience education, awareness, and best practices related to climate change and adaptation (CCA) focusing attention on Military and other public infrastructure impacts and best practices.* This effort advocates resilience education, awareness, and best practices related to climate change and adaptation (CCA). The RCOI proposes to lead several events and discussions as part of an IGE initiative on CCA and focus attention on community and infrastructure impacts from:
 - Increases of severe natural events (storms, tornadoes, hurricanes, etc.), and
 - Sea level rise in coastal areas.

IV. Intended contribution to Strategic Plan:

- This effort directly supports 2025 Strategic Plan Goal 1, Strengthen Industry-Government Engagement and Goal 2, Build & Sustain Resilient Communities.
- This IGE initiative supports SAME's National Security and Resilience mission by being leaders and collaborators within SAME and the society's stakeholder agencies and strategic partners.

V. Involved parties (industry, government, academic, SAME COI, etc.):

- In support of this IGE initiative, the RCOI leadership team has and will continue to reach out to the following organizations to engage them with for this effort:
 - DHS – FEMA
 - USACE (IWR, Norfolk District)
 - NOAA
- SAME National,
- E&S COI
- SAME POSTS – VA Hampton Roads & VA Peninsula Posts
- US Coast Guard
- Other Agencies as applicable.

VI. Issue description, scope:

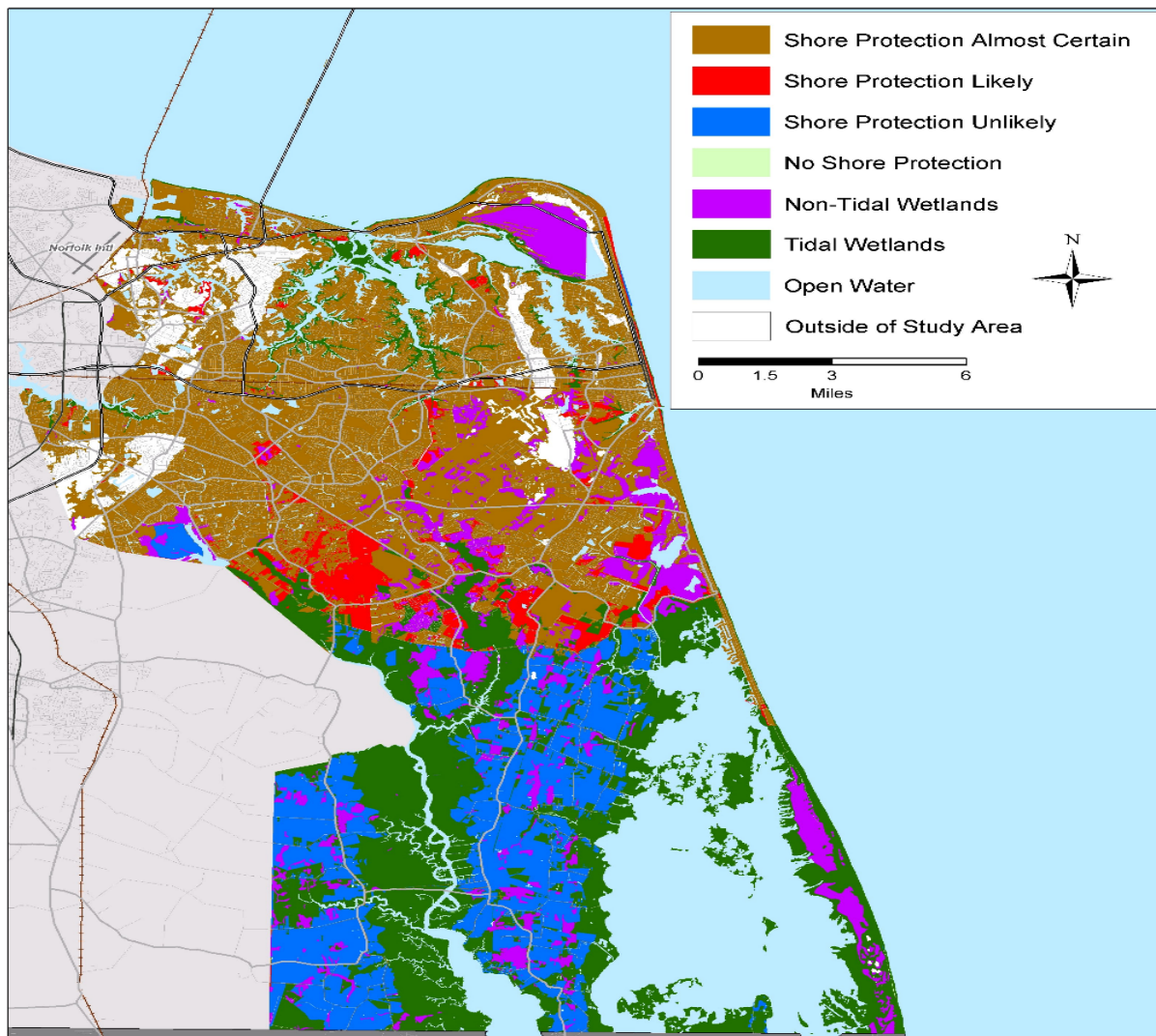
- The proposed IGE Initiative will focus on the impacts of Sea Level Rise in Coastal regions and attempt to not only raise awareness of issues related to SLR impacts, but also focus on research, studies, and practices that are being implanted to address the longer-term effects of this risk to the military industrial base and communities nearby.
- The RCOI will develop a scope and schedule of multiple events to bring this initiative forward. We will do so in two Phases.
 - **Phase 1** will focus attention on such impacts in the Hampton Roads and Peninsula VA region as this area has been identified as one of the most vulnerable areas in the nation to the impacts of CCA and SLR impacts. This region also houses several of the Military Installations and as such the associated short- and long-term risks to the operational integrity and mission assurance of these installations are very high. Much work has also been already done to study the impacts of CCA and SLR in this region and as such, there is an opportunity for the SAME and RCOI to provide additional support and collaboration to further implement any actions that have been identified or gaps that still exist in addressing remaining issues. The RCOI will hold two events in the coming (2022) calendar year to discuss and further address the scope noted.
 - **Phase 2** will focus similar attention on this issue for another coastal region where the military industrial base is at risk in the Gulf or Pacific Region. This will be developed later as the RCOI implements the Phase 1 IGE events noted above.

VII. Issue development to date (attach white papers, minutes of workshops, etc.):

- Additional information will be provided and used to further refine this focus area.
- Studies already completed for the HR region will be evaluated and in collaboration with some of the stakeholders noted above, a more focused plan will be developed to fill in any gaps of information sharing, best practices or other related actions will be identified within the next 60 days once this proposed IGE Initiative is approved by SAME national.
- As an example, the below exhibit shows some of the study findings as published by the HRPDC on the potential risks and actions needed to address SLR impacts in the VA Beach area.

VIRGINIA SEA LEVEL RISE PLANNING MAPS

HRPDC - Virginia Beach



Sea Level Rise:

- Lends itself to engineering solutions.
- Long term window
- Planning
- It's measurable
- Architecture, planning. Policy, Risk Mitigation