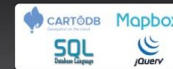


Designing Online Inspector Tools to Identify Near-Term Climate Mitigation Strategies

Gregg Verutes, Coastal Geographer, National Audubon Society, gverutes@audubon.org

POWERED BY



ABSTRACT

Rising sea levels, population growth along coastlines and increasing hazards associated with coastal storms have set coastal communities on a collision course with the risks posed by climate change. Yet management decisions on coastal development and defense operate at short-term temporal scales that often fail to adequately account for long-term climate impacts and recognize the potential role of natural infrastructure in protecting people and property from rising seas and storms.

Inspector tools (also referred to as map portals, online viewers, dashboard, and story maps) can show what is at stake if a proposed development were to occur, supporting planning dialogues and decision makers to evaluate management options at a level of detail far greater than traditional planning documents.

PROJECT TITLE

Coastal Vulnerability Index (CVI) in the UAE



LOCATIONS

United Arab Emirates

TEAM

Gregg Verutes, Melissa Rosa, Lauretta Burke, Chris Reed, William Dougherty, and Jane Glavan

SUMMARY

Natural habitats play an important role in both current and future shoreline protection of people and property in the UAE coastal zone. The overall goal is to better understand the near-term vulnerability of the UAE given changes in climate and human use in the coastal zone. There are three major objectives: (1) Acquire the various types of physical databases necessary as inputs to a CVI; (2) develop the coastal vulnerability index for the entire UAE coastline to identify those portions at highest risk from climate change and illustrate the nature of that risk; and (3) develop an interactive "CVI Inspector" tool to visualize the results of the assessment for subsequent use in near-term coastal management and planning at the emirate and national levels.

TARGET AUDIENCE

- Government Ministries and Agencies
- Conservation Organizations
- Academic Institutions

SITE PHOTOS



Integrating Coastal Vulnerability Assessment and Land Use Planning Strategies

California, USA

Eric Hartge, Lisa Wedding, Jesse Reiblich, & Jessica Williams, Center for Ocean Solutions, Gregg Verutes, Natural Capital Project, Stanford University

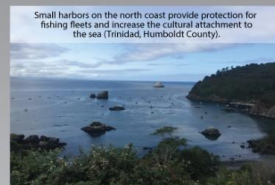
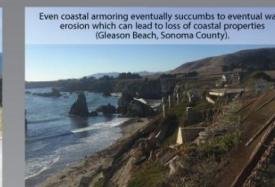
The Center for Ocean Solutions, Natural Capital Project, and Stanford Law School are engaging California coastal decision makers to co-develop a multiscaled decision-support tool to highlight where coastal habitats in California play an important role in protecting people, property and other coastal assets. The science-policy team based in the USA is also using the Inspector to identify restoration projects that meet the least legal and political resistance, explore any legal impediments to using nature-based strategies, and provide examples of where such strategies have been successfully implemented. This work is generously supported through the Realizing Environmental Innovations Program (REIP) from the Stanford Woods Institute for the Environment.

State and Federal Government Agencies:

- California Coastal Commission
- Ocean Protection Council
- State Coastal Conservancy
- NOAA Office for Coastal Management

Coastal Planners:

- Coastal-level governments
- Local resource management agencies



ONLINE INSPECTORS

