

Coastal Resilience Assets

Unlocking Innovative Finance



TNC research illustrates how nature-based coastal resilience can reduce flood damage by 29% and save communities USD 100M.

Coastal areas are home to nearly 40% of the global population, millions of individuals who are increasingly vulnerable to the devastating impacts of increased storm surges, driven by climate change and sea-level rise, that cause severe economic losses.

The same coastlines are also home to mangroves and tidal marshes that provide natural solutions to the impacts of climate change. Beyond their climate mitigation capabilities, these coastal wetlands protect communities from flood risk by absorbing incoming wave energy and providing storm protection, often at lower costs than built, or grey, infrastructure like seawalls and levees.

In an effort to enable access to climate finance - other than, or in addition to, carbon, TNC is working in partnership with global experts in a landmark protocol [Coastal Resilience Methodology \(SDVISta\)](#).

With initial support from AXA XL, this methodology will be used to generate Coastal Resilience Assets, which can be combined with blue carbon offsets to value coastal resilience in the face of climate change and flood events. These assets quantify the annual flood risk reduction benefits provided by coastal ecosystems for communities, thereby advancing United Nations' SDG 13: Climate Action.

Work in Action



Engage Leading Experts in Coastal Wetland Methodology

In collaboration with Verra, TerraCarbon and UC-Sta Cruz.



Calculate the Net Coastal Resilience Benefit

For people and property at reduced risk of flooding per ha of restored or protected habitat.



Sell Net Coastal Resilience Benefits as Coastal Resilience Assets

Create a powerful incentive for projects that enhance coastal resilience.

The Urgency

While global recognition of the need for coastal adaptation is growing, funding is not meeting the need. To address these funding limitations and complex coastal challenges, innovative approaches like Resilience Assets are a critical tool for success. They can be generated and sold separately or combined with blue carbon offsets. By pairing the value of carbon sequestration with coastal resilience, market mechanisms can catalyze coastal ecosystem management at scale. For the first time ever, corporations looking to mitigate their carbon footprint can also achieve quantified risk reduction goals by investing in coastal restoration and protection. By building a portfolio of blue carbon resilience sites, we can create a unique funding opportunity to support coastal wetland restoration and conservation at a larger scale than ever before.

Partnering for Impact

Coastal Resilience Assets enable us to support a more resilient future for coastal communities and protect the invaluable ecosystems that contribute to this resilience. The potential scale of impact is enormous in the face of climate change and increasing vulnerability to coastal flooding.

Are you looking to apply this methodology?

Purchasers of resilience assets include industries and local governments who directly benefit from the increased resilience provided by coastal wetland habitats as well as private sector entities seeking to achieve Environmental, Social and Governance goals. We are also exploring how this coastal resilience methodology can be used to support Article 7 & 8 of the Paris Agreement to address loss and damages and contribute to national adaptation plans and for innovative insurance schemes to incentivize NBS investment, recognizing the important resilience values nature provides.

Are you an investor interested in learning more?

These assets are also critical for industries whose infrastructure, clientele and workforce are at reduced flood risk due to coastal wetland restoration or protection. Their purchase of resilience assets serves to recognize this value and support stewardship, restoration and maintenance of coastal wetlands. By investing in Coastal Resilience Assets, entities are investing in the well-being of countless individuals, critical infrastructure and the preservation of our planet's essential coastal ecosystems.

Together, we can make a difference for millions of people living in vulnerable coastal regions. Join us as we work to protect coastal wetlands and improve coastal resilience.

The Method

The SDVISTA Coastal Resilience Methodology offers a structured, science-based approach to quantify the flood risk reduction benefits of coastal wetlands. This includes two key methods. Both methods measure flood risk reduction benefits of each ecosystem across various storm conditions:

- **Deemed Estimate Method:** allows for the use of publicly available datasets for use in geographies with limited data availability.
- **Scenario Method:** uses locally relevant data and spatial models to provide the most accurate flood risk reduction estimates for projects involving mangrove or tidal marsh restoration and protection.

These quantifiable benefits can be sold as Coastal Resilience Assets, creating a powerful incentive for projects that enhance coastal resilience.