

ReCLAIM

Restoring Coastal Landscape for Adaptation Integrated Mitigation



Photo: Mokhamad Edliadi/CIFOR

What is ReCLAIM?

The Restoring Coastal Landscape for Adaptation Integrated Mitigation (ReCLAIM) Project is a collaborative effort between the Center for International Forestry Research (CIFOR) and various Indonesian partners representing university, government agencies, and civil society with support from the David and Lucile Packard Foundation, USA.

Coastal landscapes represent an integrated web of inter-relationships underpinning the flow of ecosystem services that sustains human well-being. In a tropical coastal setting, mangroves are foundational to the social-ecological system (Figure 1). Mangroves are productive ecosystem offering many services for communities including productive fisheries which contribute to sustainable livelihoods. The fish harvested from mangrove systems are an important source of protein and micronutrients in many coastal communities. Mangroves play an important role in prevention of floods and storm surges and in mitigation of climate change by storing vast amounts of carbon per unit area. Despite these contributions to people and the planet, rates of mangrove loss and degradation in Indonesia are high. The loss of fish as an affordable nutrition source for the local communities due to mangrove degradation can have severe consequences. Conservation and restoration of degraded mangroves can therefore provide important benefits to nearby communities while minimizing the impacts of climate change.

The ReCLAIM project aims to support the Indonesian government (local, provincial and national level) in enhancing

the recognition of blue carbon ecosystems by promoting evidence-based mangrove restoration for improved livelihoods, food security and nutrition benefits to the coastal communities. The results obtained from ReCLAIM activities will contribute to mangrove restoration in Indonesia and the lessons learned could be applicable at other locations, both nationally and internationally.

Goal and objectives

The overarching goal of the ReCLAIM project is to improve human well-being and environmental integrity through coastal landscape restoration.

ReCLAIM objectives include:

- Assessing the potential of restored blue carbon ecosystems for climate change mitigation and adaptation.
- Quantification of livelihood and nutritional benefits of maintaining healthy coastal landscapes and restoring degraded blue carbon ecosystems for local communities.
- Enhancing the adaptive capacity of local governments and communities by generating new knowledge from the project and sharing this knowledge through regular dialogues and interactive communication materials.

The communications and outreach unit at CIFOR will help in disseminating results from activities under the ReCLAIM project both nationally and globally.

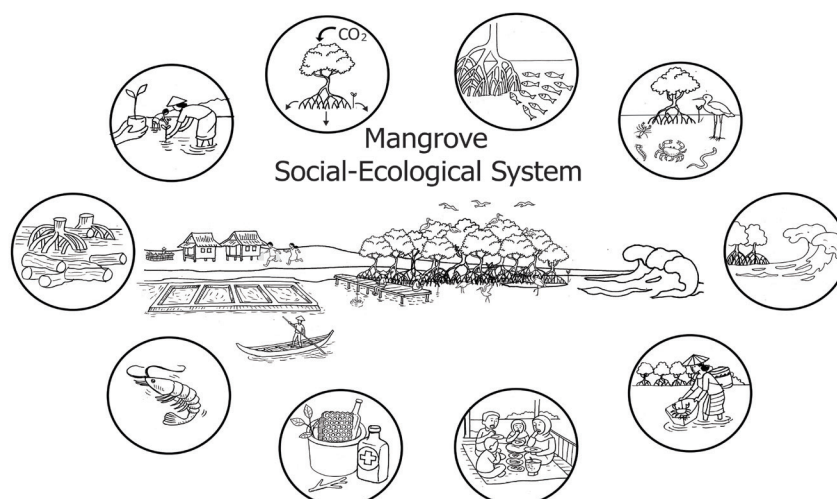


Figure 1. Mangroves are central for continued flow of ecosystem goods and services in a coastal landscape.

Source: Modified from a visual abstract by Meenakshi Poti in Dahdouh-Guebas et al. (2021)

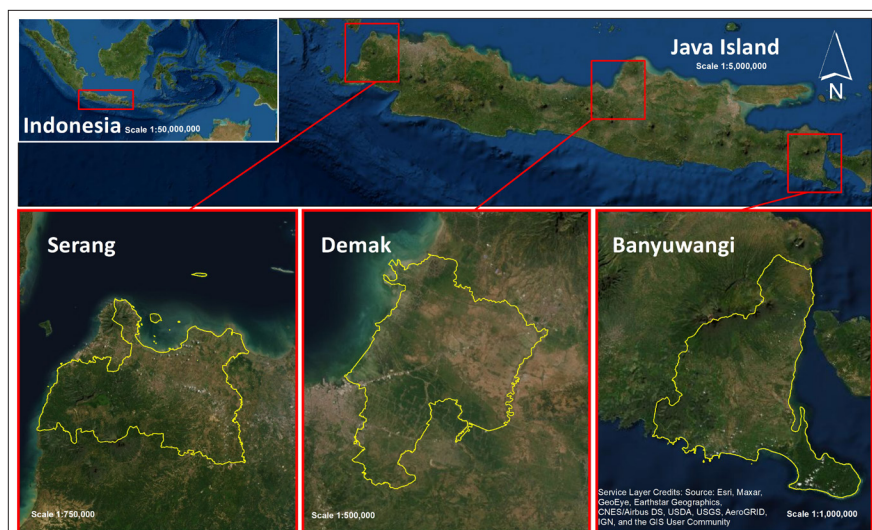


Figure 2. Project implementation sites across north coast of Java with sampling location in Serang Municipality and Regency, Demak and Banyuwangi Regencies.

Project sites

The ReCLAIM project is being implemented in three sites on the north coast of Java, Indonesia, in Serang Municipality and Regency, Banten; Demak Regency, Central Java; and Banyuwangi Regency, East Java (Figure 2). The site in Serang represents protected mangroves, and the sites in Demak represent restored mangroves and the sites in Banyuwangi represent healthy mangroves. Biophysical studies of these mangroves will be carried out at all sites to try to understand coastal vulnerability and restoration and mitigation potential where mangrove ecosystems are degraded. In addition, nutrition and livelihoods studies will be conducted in coastal communities in the Demak and Banyuwangi sites to characterize the importance of mangroves for food and nutrition security as well as socio-economic resilience and adaptability.



Photo: Daniel Murdiyarso/CIFOR

ReCLAIM Partners

The conceptualization and implementation of ReCLAIM project is drawn from the expertise of CIFOR and several other partners. Being recognized as a global leader in interdisciplinary forest research and application, CIFOR collaborates with the government institutions, universities, and civil society. For implementation of ReCLAIM project our partners include:

- IPB University, Diponegoro and Jember Universities contributing expertise and practical knowledge in biophysical, nutrition and social-economic issues and with strong connections to local government.
- National Research and Innovation Agency (BRIN) providing soil samples analysis and data interpretation for carbon and select radionuclides.
- Yayasan Hutan Biru and IKAMaT facilitating community engagement for activities related to restoration, health, nutrition and local livelihoods.

If you are interested in learning more about ReCLAIM activities, please visit - <https://www2.cifor.org/swamp/>

For discussing possible collaboration please contact:

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Center for International Forestry Research (CIFOR)

CIFOR advances human well-being, equity and environmental integrity by conducting innovative research, developing partners' capacity, and actively engaging in dialogue with all stakeholders to inform policies and practices that affect forests and people. CIFOR is a CGIAR Research Center, and leads the CGIAR Research Program on Forests, Trees and Agroforestry (FTA). Our headquarters are in Bogor, Indonesia, with offices in Nairobi, Kenya; Yaounde, Cameroon; Lima, Peru and Bonn, Germany.

