

Abstract

SESSION 3:

From Vision to Reality: Aligning the Global Agenda with Local Benefits

WORKSHOP 3.3:

Blue Economy Development: Where are we now? Where are we headed?

Blue Carbon for Blue Growth: Managing *Blue Carbon* Ecosystems for Sustainable Coastal Livelihood in Indonesia

Andreas A. Hutahaean

Head of Blue Carbon Center, Agency for R & D of Marine and Fisheries
Ministry of Marine Affairs and Fisheries
Jakarta, Indonesia



Agustin Rustam, Terry Kepel, Restu Nur Afianti, August Daulat, Budi Sulistyono and Tonny Wagey

Key words :

Blue carbon, coastal livelihood, seagrass, mangrove and Indonesia

Blue Carbon ecosystem, such as mangrove and seagrass, are very important, but also often underrated ecosystems. These ecosystems provide many essential ecosystem services, such as for fisheries; protection of beaches and coastlines from storm surges, waves and floods; reduction of erosion; cultural services including tourism and recreation; and supporting services, such as cycling of nutrients and as habitats.

They are also significant for the global climate by storing and sequestering atmospheric carbon. Recently, it has been recognized that coastal ecosystems actually contain much more carbon per unit area than many terrestrial ecosystems; giving additional value to what is already known about these important ecosystem.

Well-managed and healthy coastal ecosystems are valuable in helping coastal communities adapt to climate change threats, e.g., by acting as buffers to rising sea levels, shoreline erosion and extreme weather events. The significance of coastal ecosystems and the role they can play in climate change mitigation, adaptation and support to livelihoods is also recognized in various international declarations (e.g. the Manado Declaration for Oceans), conventions (e.g. UNFCCC and CBD) and science-policy platforms (IPCC).

The presentation will show the existing initiatives and projects to become a major driver of sustainable coastal ecosystem based management utilizing economic values associated with carbon sequestration and ecosystem services such as for coastal livelihoods (tourism, fisheries).



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About Andreas A. Hutahaeen:

Andreas A. Hutahaeen is Scientist and head of Blue Carbon Center at Agency for Research and Development (R & D) of Marine and Fisheries under the Ministry of Marine Affairs and Fisheries. He has PhD with background on Applied Marine Biogeochemistry from Nagoya University, Japan, and MSc with major on Marine Chemistry from Bremen University, Germany. Prior to joining the research agency, Andreas has some experience working in research institutes, such as Max Plank Institute (MPI) in Bremen, Center for Tropical Marine Ecosystem (ZMT) and Marine Geology Department at University of Bremen-Germany, and at Hydrospheric and Atmospheric Research Center (HyARC) at Nagoya University in Japan.

Currently, Andreas Hutahaeen is also a lecturer for post graduate program on Marine Sciences at Bogor Institute of Agriculture (IPB), founder of Indonesia Stakeholders Forum for Blue Carbon, and a member of the International Scientific Working Group on Blue Carbon.