



Conservation International

Jorge Ramos, Ph.D.
Conservation International

CONSERVATION
INTERNATIONAL



the
**BLUE
CARBON**
initiative

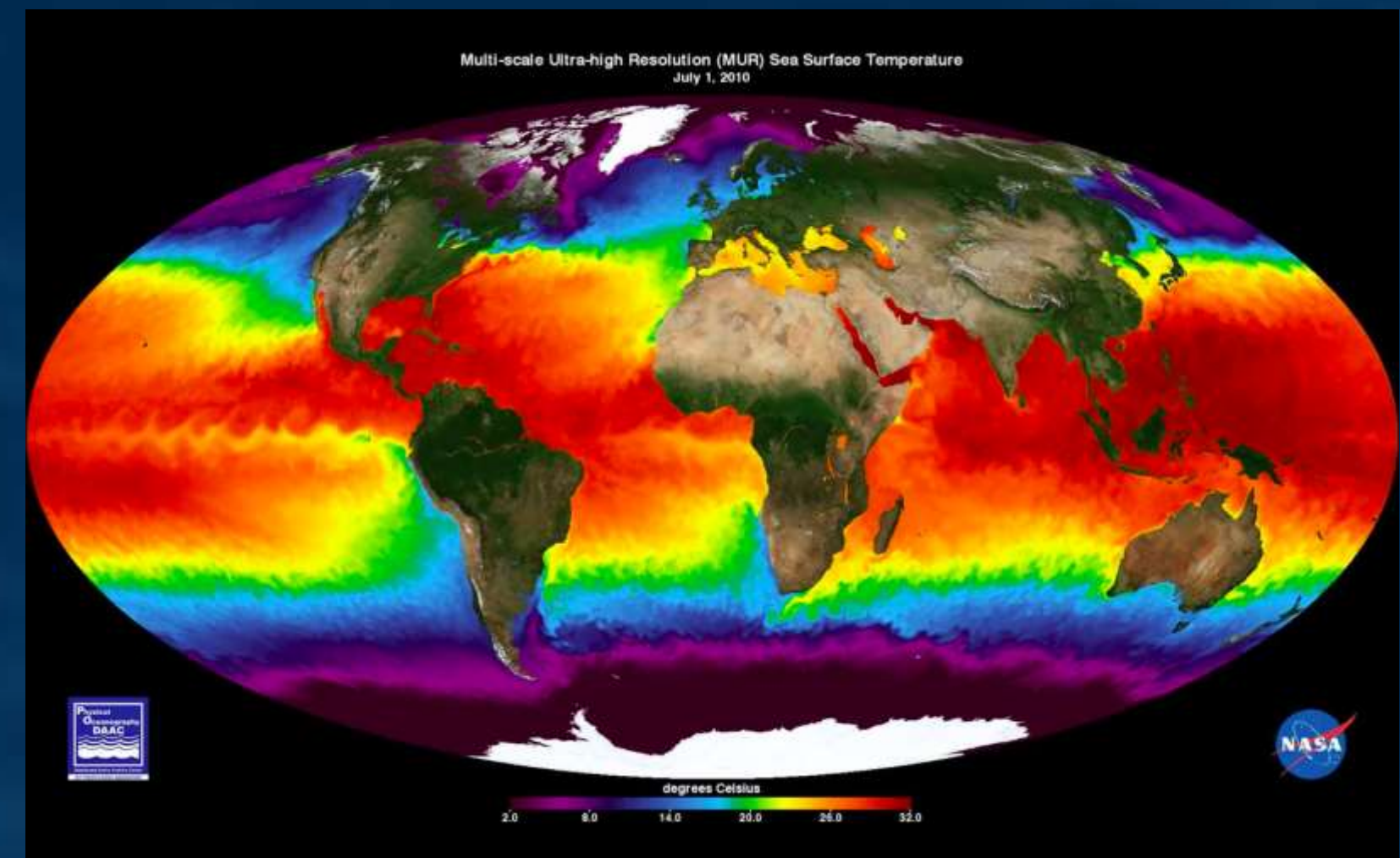


Dos estrategias globales

Adaptación -



Mitigación -





ADAPTACIÓN

Estrategias de Adaptación

Estudios de Vulnerabilidad a
Cambio Climático



Madagascar, Brazil,
Indonesia, y Galapagos

Soluciones Híbridas
(Verde/Gris) en áreas
costeras



Filipinas

A low-angle photograph looking up at a dense forest of tall trees with green foliage against a clear blue sky. The perspective is from the forest floor, looking up at the canopy. The word "MITIGACIÓN" is overlaid in large, white, sans-serif capital letters in the lower center of the image.

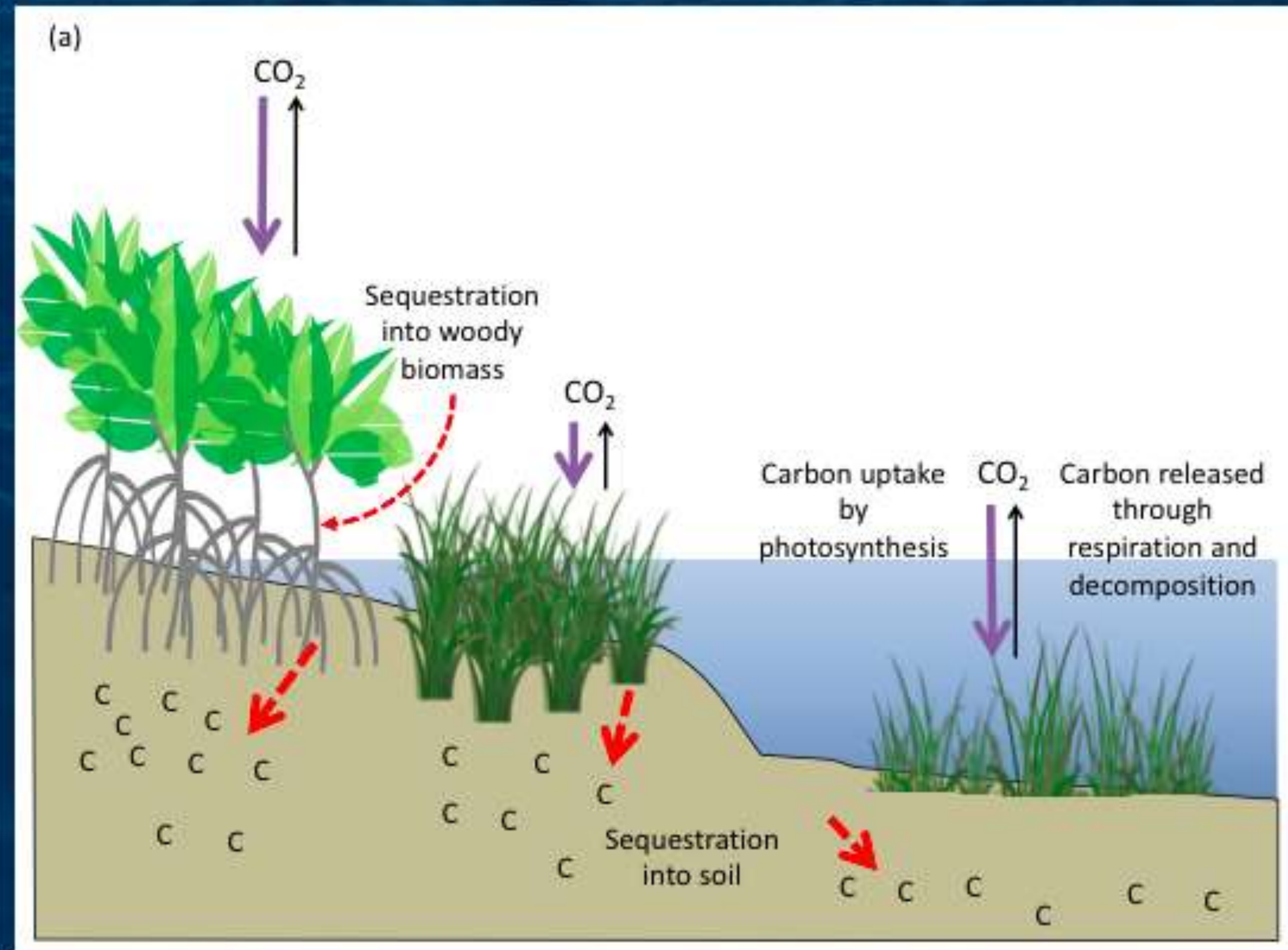
MITIGACIÓN

Ecosistemas Costeros con Carbono Azul

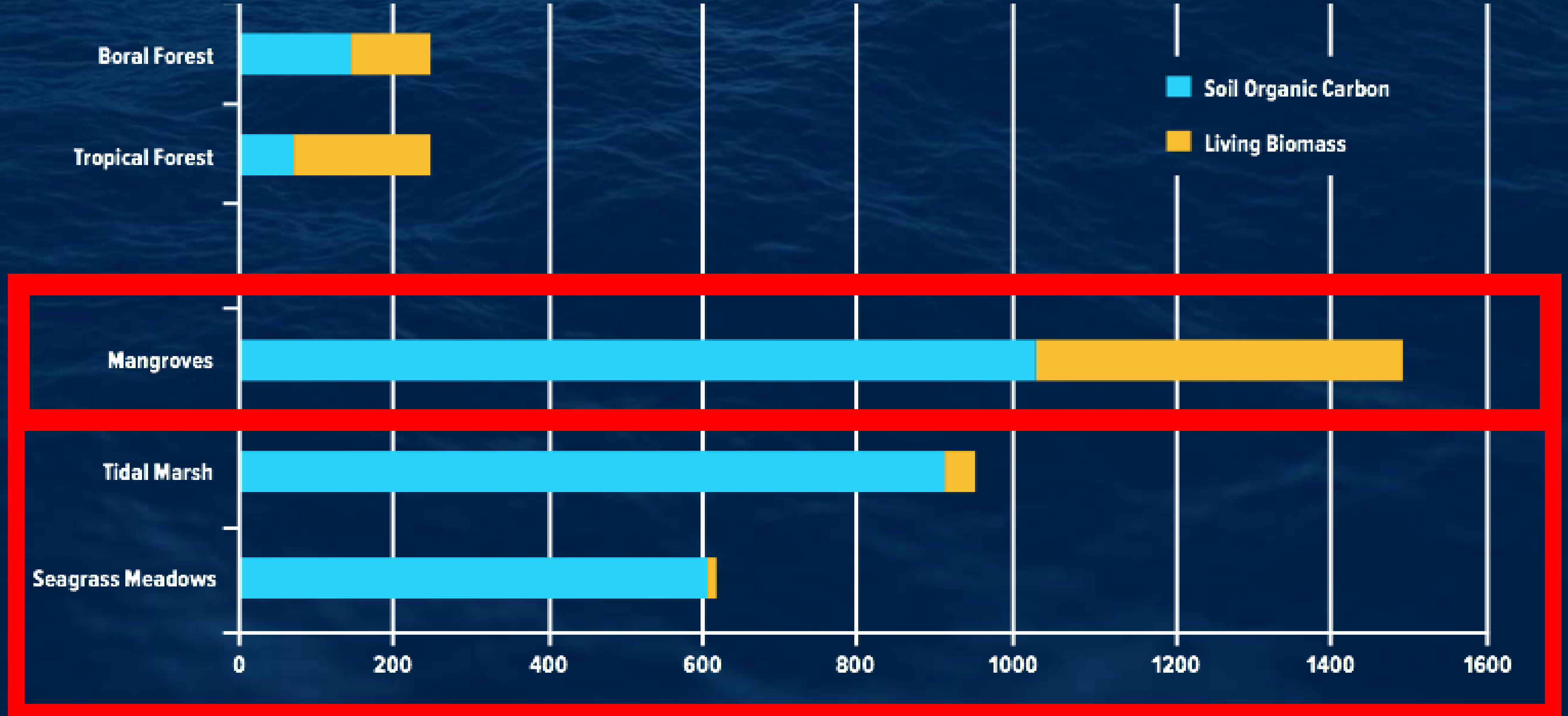
Manglares, marismas, y pastos marinos



Ciclo del carbono no es lo mismo que almacenamiento de carbono



Ecosistemas costeros almacenan muchísimo carbono



Mg CO₂ ha¹

Estamos perdiendo estos ecosistemas rápidamente!



Acuacultura no sustentable



Agricultura irresponsable



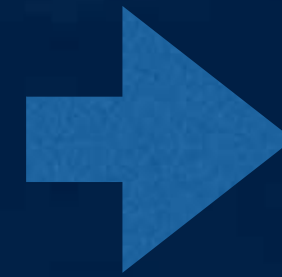
Desarrollo urbano en las costas



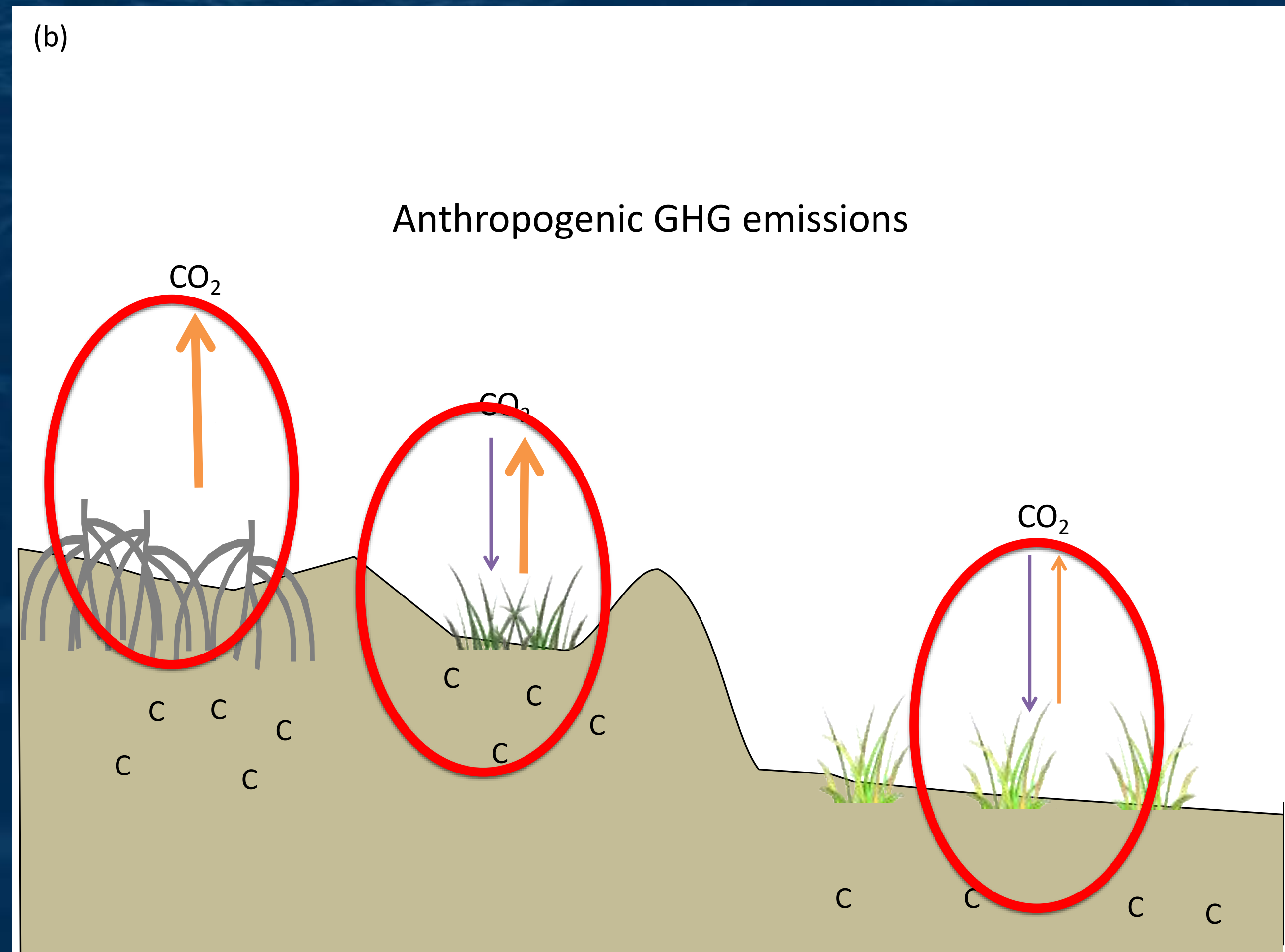
Contaminacion

La consecuencia mas problemática?

Carbono azul perdido en forma de dióxido de carbono (CO₂)



Gases de invernadero emitidos a la atmosfera!



Blue Carbon Initiative

Incrementar la conservación, restauración, y el manejo sostenible de ecosistemas costeros con carbono azul



 @BlueCarbon_BCI

<http://thebluecarboninitiative.org/>

CONSERVATION
INTERNATIONAL

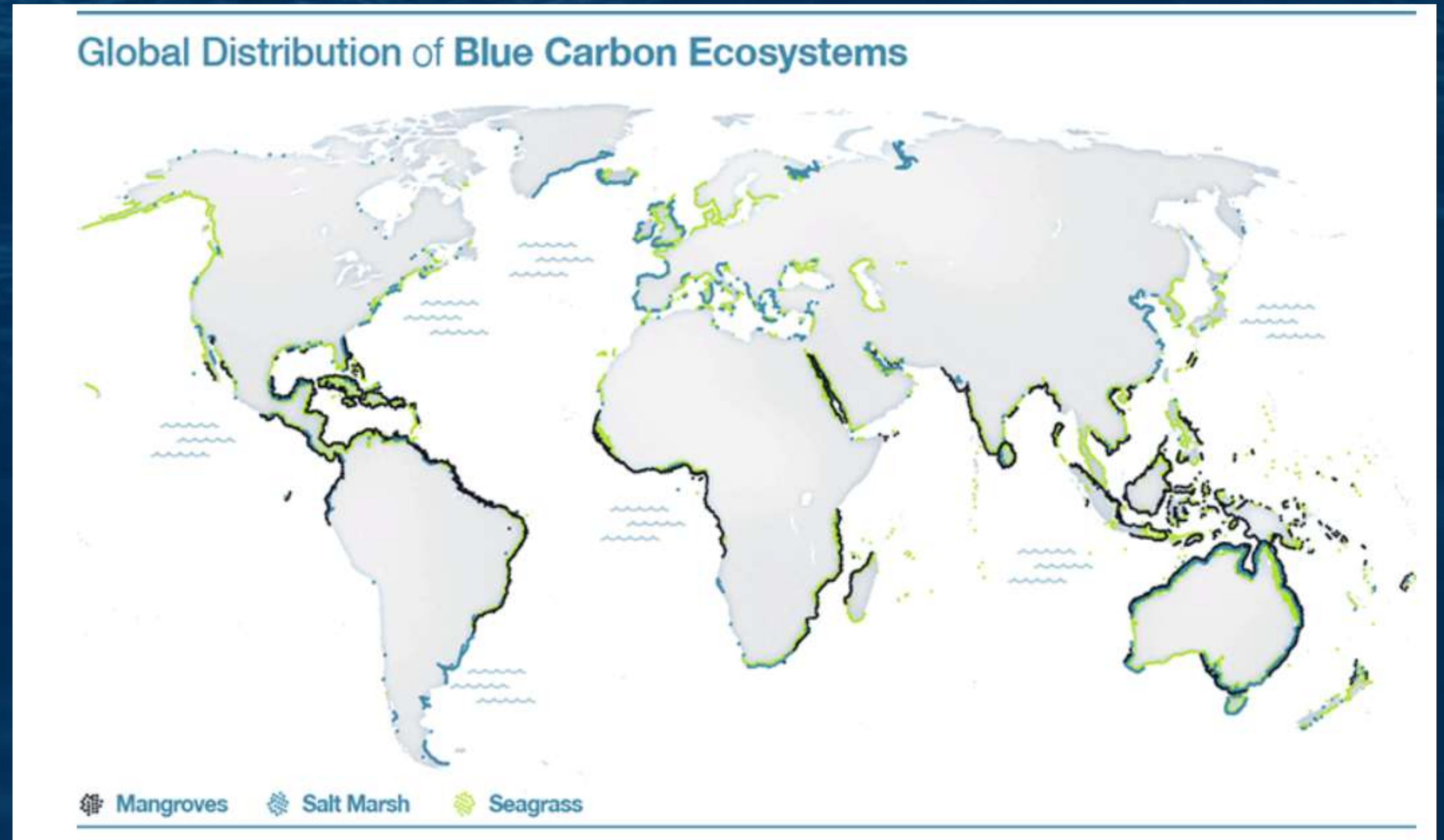


United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission

Porqué una iniciativa global?



Blue Carbon Initiative

- Scientific Working Group and Policy Working Group



WEIHAI, CHINA – AUGUST 2018

Workshops

- China – August 2018
- Spain – October 2017
- Indonesia – September 2016
- Zanzibar – September 2015
- Brazil – October 2014
- France – October 2013
- Australia – May 2013
- United States – October 2012
- Costa Rica – March 2012
- Indonesia – July 2011
- France – February 2011



the
**BLUE
CARBON**
initiative

CARBONO AZUL

Métodos para evaluar las existencias y los factores de emisión de carbono en manglares, marismas y pastos marinos

the
**BLUE
CARBON**
initiative

CONSERVATION
INTERNATIONAL



NUEVO MANUAL PARA EVALUAR, MUESTREAR, Y ANALIZAR CARBONO AZUL

“Estandarizar protocolos de muestreo, mediciones de laboratorio y análisis de reservas y flujos de carbono azul”

“Proporcionará a los científicos y administradores costeros una herramienta práctica para producir datos concretos de carbono azul”



ipcc
INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

**2013 Supplement to
the 2006 IPCC Guidelines for
National Greenhouse Gas
Inventories: Wetlands**

Methodological Guidance on Lands with
Wet and Drained Soils, and Constructed
Wetlands for Wastewater Treatment



Task Force on National Greenhouse Gas Inventories

2013 supplement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Wetlands

**Ecosistemas/humedales costeros
han sido integradas!**

2013 Supplement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Wetlands

Chapter 4: Coastal Wetlands


4 COASTAL WETLANDS

4.1 INTRODUCTION



Se puede utilizar el carbono azul como una estrategia para manejar sosteniblemente, conservar y restaurar ecosistemas costeros?

Varios mecanismos existen para crear proyectos sostenibles de conservación

- 
- Mercado de carbono
 - a) Créditos de carbono (nacional e internacional)
 - Mercado voluntario
 - a) Gobierno, Sector privado
 - Mecanismos de Políticas Internacionales
 - a) NDCs, REDD+, SDGs,
 - Mecanismos de Políticas Nacionales
 - a) Planes de manejo
 - Seguir informando a los países sobre los servicios ecosistémicos, incluyendo el carbono azul, que estos ecosistemas ofrece.

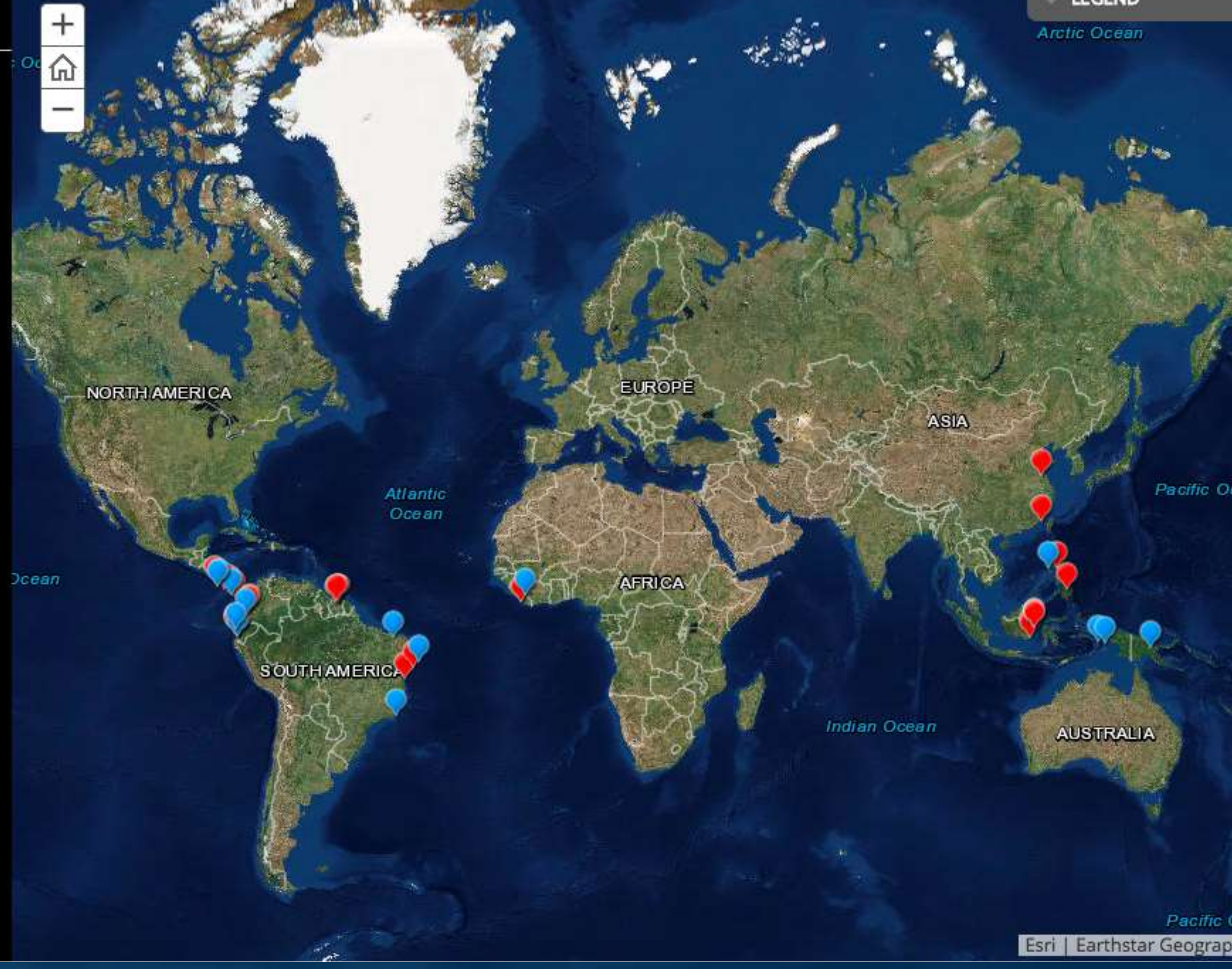
Ecosistemas de Carbono Azul



Pesca, Protección de tormentas, Control de erosión, Calidad de agua costera, Calidad de vida, Valores culturales, Recursos alimenticios, Turismo, Biodiversidad, entre otros

CONSERVATION INTERNATIONAL GLOBAL MANGROVE PROJECTS

Mangrove forests are amazing ecosystems that grow along tropical coasts, where they thrive in saltwater and tidal conditions. Mangrove ecosystems are some of the most productive and biologically diverse ecosystems on the planet: They serve as important habitats for fish, sharks, manatees, crabs and other important species; provide food, jobs and other resources to communities around the world; and protect some of the most vulnerable coastal communities from the devastating impacts of climate



Gracias



CONSERVATION
INTERNATIONAL 

the
**BLUE
CARBON**
initiative

Gulf of Nicoya, Costa Rica



Develop and support policy and management that conserves and promotes sustainable use of the mangroves.



Indonesia



Demonstrate the viability of blue carbon financing for the Kaimana MPA by developing the necessary project documents and tools to access carbon-based funding for sustainable use and conservation activities

Connecting blue carbon to carbon markets



ABOUT VERRA ▾

Standards for a Sustainable Future

Verra develops and manages standards that help countries, the private sector and civil society achieve their sustainable development and climate action goals.



UNFCCC COP 21 Paris Agreement



Article 5

1. Parties should take action to conserve and enhance, as appropriate, sinks and reservoirs of greenhouse gases as referred to in Article 4, paragraph 1(d), of the Convention, including forests.

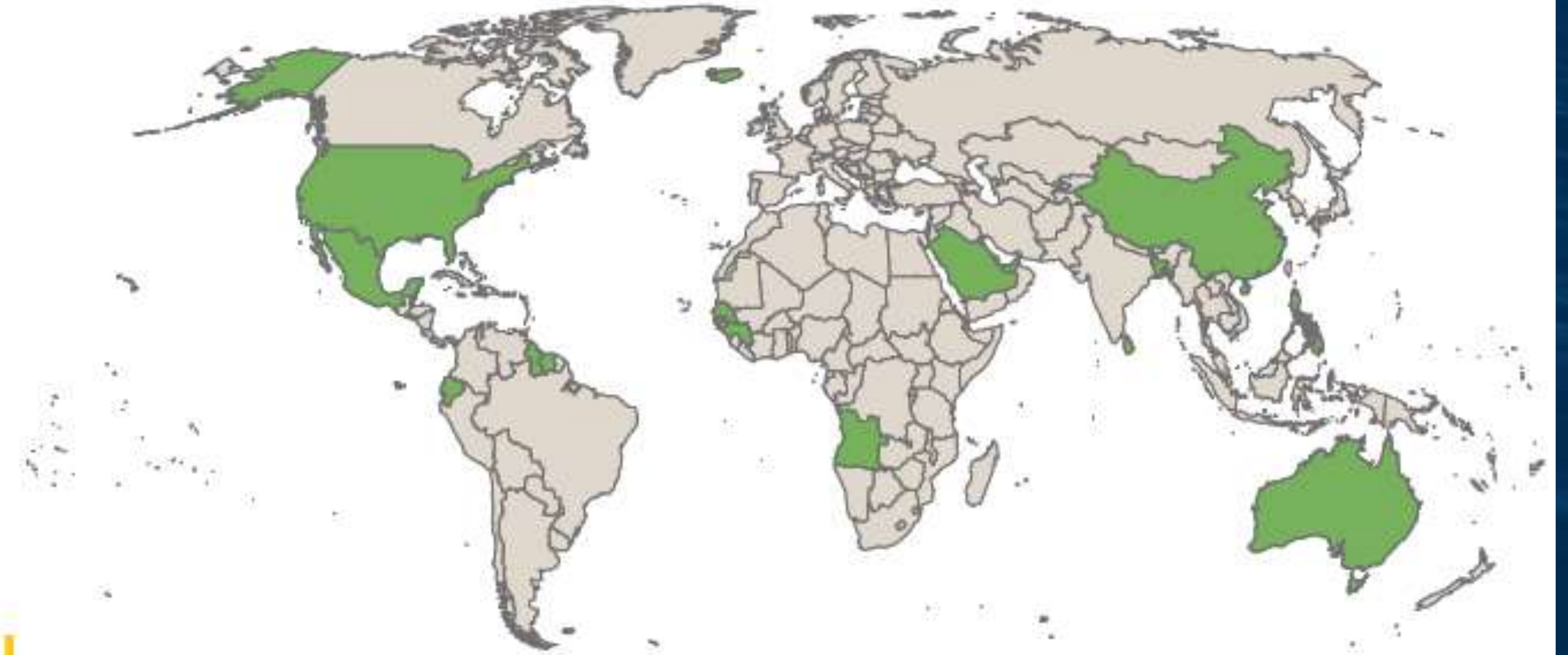
Art. 4 p.1d of the Convention reads:

(d) Promote sustainable management, and promote and cooperate in the conservation and enhancement, as appropriate, of sinks and reservoirs of all greenhouse gases not controlled by the Montreal Protocol, including biomass, forests and oceans as well as other terrestrial, coastal and marine ecosystems;

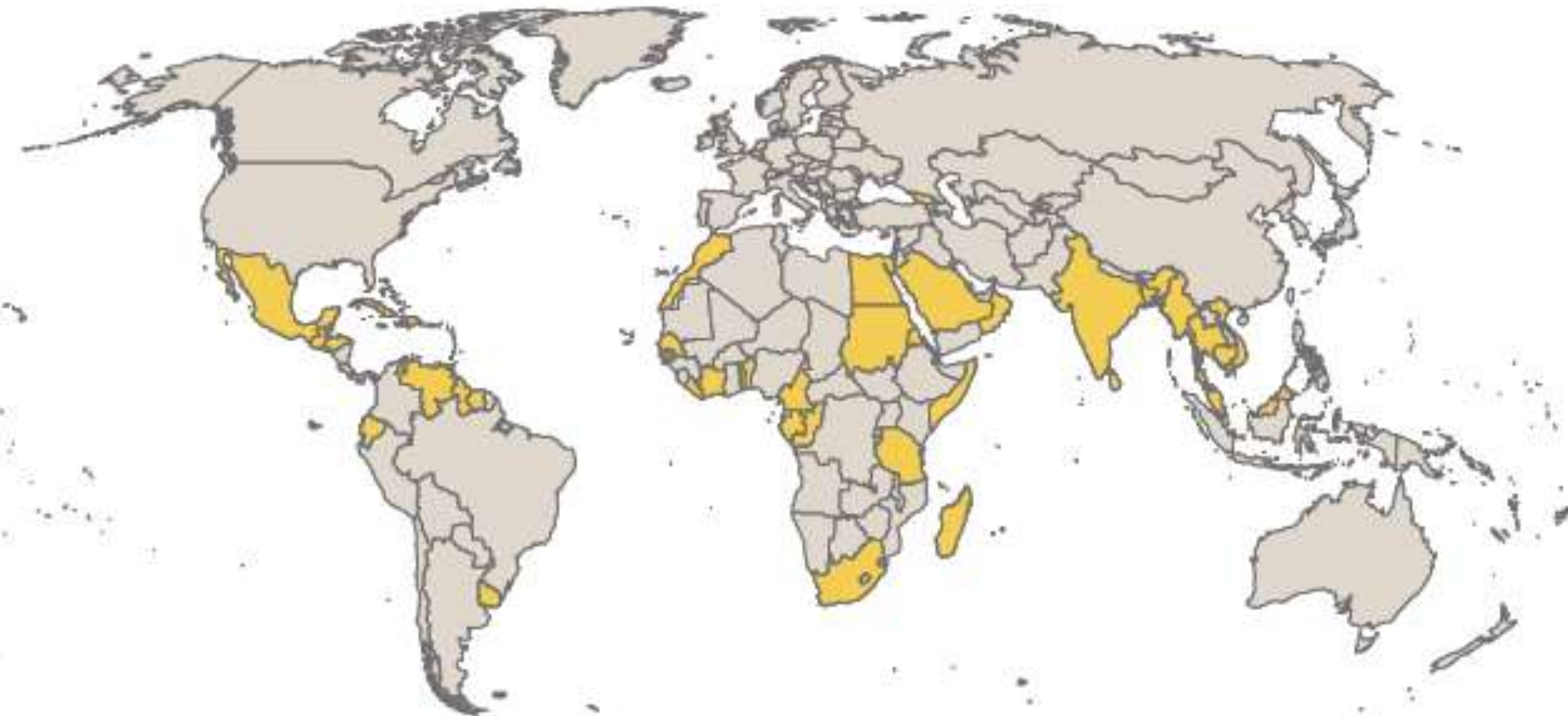


Blue Carbon in NDCs

MITIGATION



ADAPTATION



The Nature
Conservancy 

