





Working Group on Blue Carbon Actions (WGBCA) in Western Pacific Region

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Presentation outline







- What is blue carbon?
- Blue carbon matters to WESTPAC
- Proposed lifetime of the WG
- Objectives and expected outputs/outcomes
- Tentative members identified
- Activities tentatively planned for May 2023- April 2025
- Recommendations,







What is Blue Carbon?

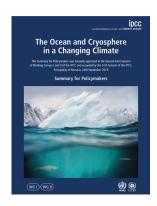




Blue carbon is the carbon captured by the world's oceans and represents more than 55% of the green carbon.

-Blue Carbon: The Role of Healthy Oceans in Binding Carbon , 2009





All biologically-driven carbon fluxes and storage in marine systems that are amenable to management*.

-IPCC SROCC , 2019









* Mangroves, Seagrasses, Tidal Marshes,

Macroalgae



Blue carbon in a changing world







Climate change

Pressures

Human activities

Ocean warming

Sea level rise

Heat wave

Acidification

Deoxygenation

Storm surge



Deforestation
Water Pollution
Overfishing
Sea reclamation
Alien species



Climate Mitigation & Adaptation



Blue Carbon under UNFCCC and Paris Agreement

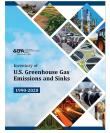






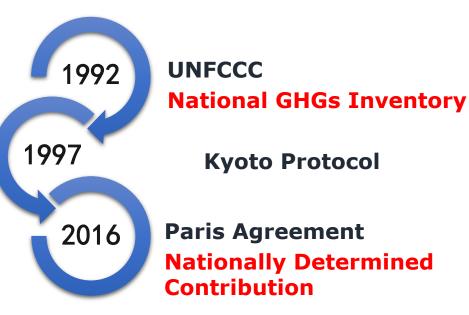
2013 Supplementary to the 2006 IPCC Guidelines for National Greenhouse Gases Inventories: Wetlands Chapter 4: Coastal Wetlands





Australia

United States



Paris Agreement Nationally Determined

MITIGATION



Angola Antigua and Barbuda Australia Bahamas Bahrain Bangladesh Belize Brunei China Comoros Cook Islands Ecuador El Salvador Guinea Guyana Haiti Iceland Kiribati Marshall Islands Mexico Philippines Saudi Arabia Senegal Seychelles Sri Lanka Suriname United Arab Emirates United States of America

Produced by Elsa Lindevall

Map of 28 countries that include a reference to coastal wetlands in terms of mitigation in their NDCs

ADAPTATION



Bahamas Bahrain Bangladesh Belize Benin Cambodia Cameroon Cape Verde Cook Islands Côte d'Ivore Cuba Djibouti Dominican Republic Ecuador Egypt Eritrea Fiji Gabon Gambia Georgia Grenada Guatemala Guinea-Bissau Guyana Haiti Honduras India Lebanon Liberia Madagascar Malaysia Marshall Islands Mauritius Mexico Morocco Myanmar Nauru Niue Oman Republic of Congo Saint Lucia Saint Vincent and the Grenadines Saudi Arabia Senegal Sevchelles Singapore Somalia South Africa Sri Lanka Sudan Suriname Tanzania Thailand Togo Uruguay Vanuatu Venezuela Vietnam

Blue-Carbon-NDC-Appendix.pdf (bluecsolutions.org



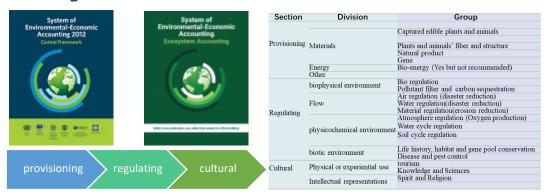








Ecosystem Services





UNFCCC & Paris Agreement



Ramsar Convention on Wetlands

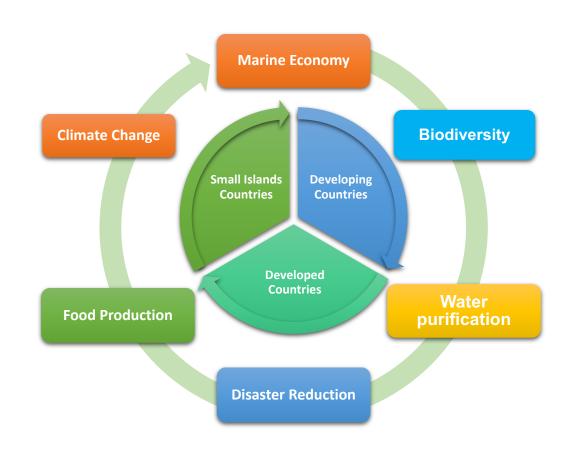


Convention on Biological Diversity



Sustainable Development Goals

One action, multiple Benefits



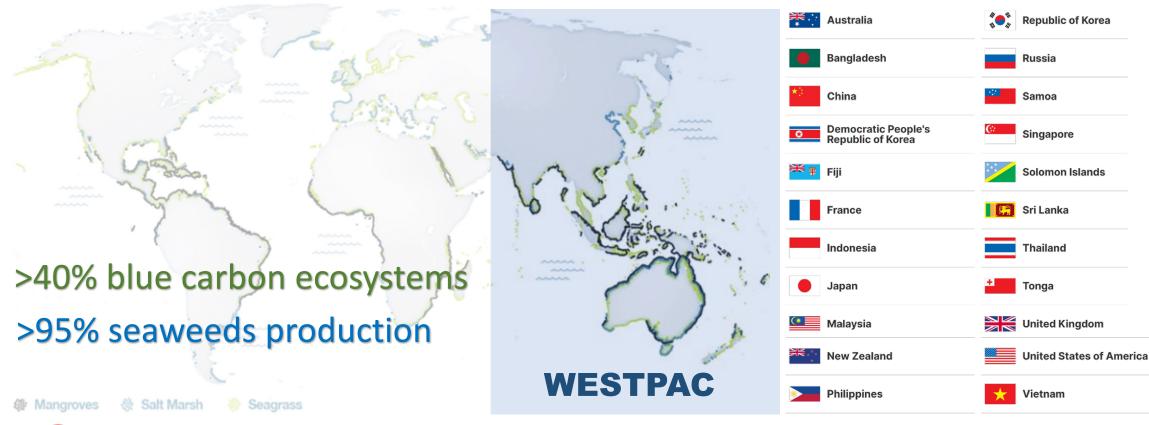








Blue carbon matters to WESTPAC





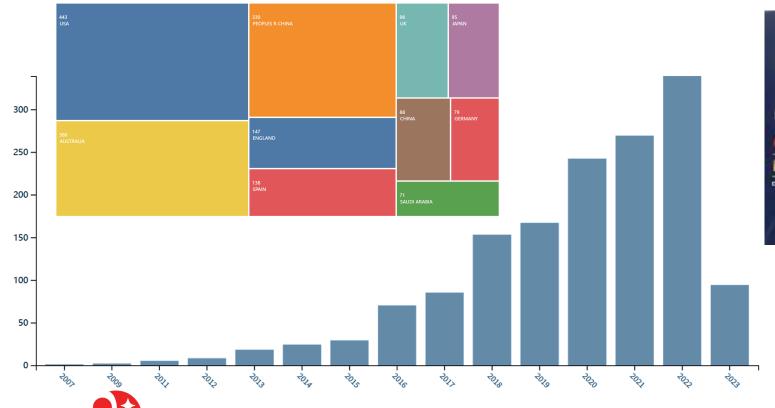






More things to do besides papers

>53% of 1515 SCI articles on blue carbon are published by scientists from WESTPAC members





Take blue carbon as a solution to many regional issues













10 Ocean Decade Challenges

Main solution to	 2 Protect and restore ecosystems and biodiversity 5 Unlock ocean-based solutions to climate change 6 Increase community resilience to ocean hazards
Contribute to	 Understand and beat marine pollution Sustainably feed the global population Develop a sustainable and equitable ocean economy
Key area to	 7 Expand the Global Ocean Observing System 8 Create a digital representation of the ocean 9 Skills, knowledge and technology for all 10 Change humanity's relationship with the ocean

SDGs















Proposed lifetime of the new initiative

- The WG will operate for two years from 2023 to 2025, with annual activities planned to achieve the objectives.
- If the WG could not achieve its objectives within two years, it may be extended for another two years.











Objectives and expected outputs/outcomes

- foster a blue carbon research and practice network for facilitating the exchange of knowledge and expertise on blue carbon among WESTPAC members;
- Identify common interest in blue carbon cooperation and explore the possibility of developing a blue carbon project or programme under the IOC/WESTPAC framework.

- a series of webinars for sharing knowledge and experience and identifying common interests
- a status report for tracking progress and identifying problems in regional blue carbon policy, research, and practice.
- a project/programme proposal for prioritizing and mapping out the roadmap of regional blue carbon cooperation.









Tentative members identified so far

- ZHAO Peng (China)
- Daniel Gorman (Australia)
- Jinsoon Park (Korean)
- Kazuo Nadaoka (Japan)
- Abe Woo Sau Pinn (Malaysia)

- Suchai Worachananant (Thailand)
- Pham Van HIEU (Vietnam)
- Severino G. SALMO (the Philippines)
- Sasmito, Sigit D(Singapore)
- <u>Udhi Hernawan (Indonesia)</u>

- Luitgard schwendenmann (New Zealand)
- Other international initiatives related to blue carbon
-

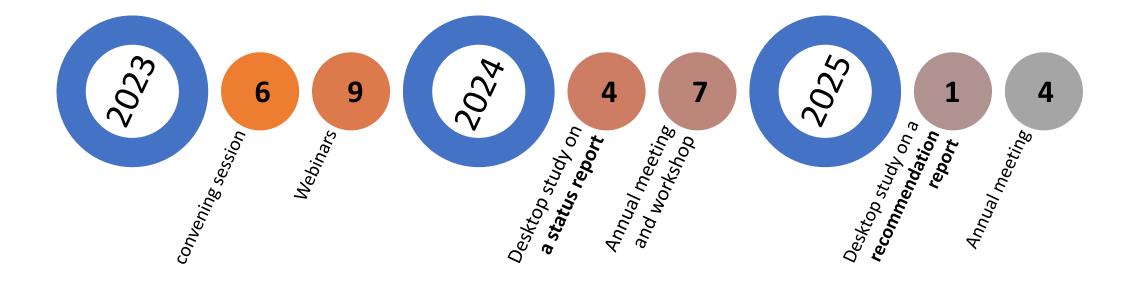
The WG is open to individuals and organizations willing to contribute.

All potential members will be further confirmed through the first workshop of the WG.

















Recommendations

Data synthesis

Open-accessed database, data gaps

Capacity Building

Research, accounting, and practice

Broader financial resources

Organizations, enterprises, etc.

Network & collaboration

voices from officials, scientists, enterprise, and communities.











ThankYou

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https://hb.hainanu.edu.cn/nanhaihaiyang/inf o/1071/1575.htm

