



# AGENDA

## Objectives

Blue carbon is increasingly gaining attention from national and international leaders, the scientific community, business actors and civil society. It is timely to bring the issues associated with optimizing the potential of blue carbon to an important summit.

The **Blue Carbon Summit** has the following objectives:

- to facilitate dialogue across sectors and among stakeholders concerned with blue carbon issues
- to identify gaps and barriers that hinder the mainstreaming of coastal blue carbon in the national development agenda and to meet global commitments
- to outline the roadmap of blue carbon development in Indonesia in line with the upcoming COP24 in Poland and Our Ocean Conference.

# BLUE CARBON SUMMIT

*Mainstreaming blue carbon  
into the national agenda  
to meet global commitments*

**17-18 July 2018**

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Jakarta



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RESEARCH  
PROGRAM ON  
Forests, Trees and  
Agroforestry



Global  
Landscapes  
Forum

08.30–09.30	<b>Registration</b>			
09.30–10.00  Will be Livestreamed	<b>Opening plenary</b> Room: Auditorium (Floor 2) Speakers: <ul style="list-style-type: none"> <li>• <b>Organizer Report</b></li> <li>• <b>Satryo Sumantri Brodjonegoro</b>, Indonesian Academy of Sciences (AIPI)</li> <li>• <b>Robert Nasi</b>, Center for International Forestry Research (CIFOR)</li> <li>• <b>HE Luhut Binsar Pandjaitan</b>, Coordinating Minister of Maritime Affairs, Republic of Indonesia</li> </ul>			
10.00–10.30	<b>Coffee Break   Media Briefing</b> (Closed session)			
10.30–12.00  Will be Livestreamed	<b>Subplenary – People’s Voice</b> Room: Auditorium (Floor 2) Facilitator: <ul style="list-style-type: none"> <li>• <b>Jatna Supriatna</b>, Research Center for Climate Change, University of Indonesia</li> </ul> Rapporteur: <ul style="list-style-type: none"> <li>• <b>Alan Koropitan</b>, ALMI, IPB</li> </ul> Speakers: <ul style="list-style-type: none"> <li>• <b>Ketut Sarjana Putra</b>, Conservation International</li> <li>• <b>Rizal Algamar</b>, TNC Indonesia</li> <li>• <b>Nyoman Suryadiputra</b>, Wetlands International</li> <li>• <b>Martin Hadiwinata</b>, Indonesian Traditional Fisherfolk Union</li> </ul>	<b>Scope</b> - This session brings together non-state actors. These groups play very important roles, both in raising people’s voices/interests and in sharing their vast experience, ranging from grass roots issues to debates in international fora. A sustainability agenda may be able to bridge the development and conservation gap in regard to blue carbon ecosystems, which span coastal zones through to the open ocean, including marine protected areas. While keeping a keen eye on practicality aspects, panel members will cover the governance and institutional challenges around mainstreaming blue carbon at national and global levels.		
12.00–13.00	<b>Lunch</b>   Room: Floor 17			
13.00–14.30	<b>Parallel Discussion Forum</b>			
<b>1. Fishing industry and sustainable blue economy</b> Room: Ruang Serbaguna (Floor 4) Moderator: <b>Victor Nikijuluw</b> , Conservation International Rapporteur: <b>Yohanes Ginting</b> , CIFOR Speakers: <ul style="list-style-type: none"> <li>• <b>Hendra Sugandhi</b>, Indonesian Tuna Association. <i>Current status and challenges of Indonesian Fishery Industry.</i></li> <li>• <b>Soetyono Iskandar, Moch. Bruri Triyono, Nurlaela Latief, A. Muh. Idkhan</b>; Makassar State University and Yogyakarta State University. <i>Optimization of hybrid powered refrigerator system (solar cell plus diesel engine) for traditional fishing vessels in Makassar.</i></li> <li>• <b>Diah Radini Noerdjito, Gede Suantika, Djoko T. Iskandar</b>; ITB and LIPI. <i>High economic value unsaturated fatty acid potency produced by tropical marine diatom (<i>Nitzschia</i> sp. : <i>Bacillariophyceae</i>) from Karimunjawa.</i></li> <li>• <b>Purnama Alamsyah, Lutfah Ariana, Irene Muflikh Nadhiroh, Ria Hardiyati, Ikbal Maulana</b>; LIPI. <i>Foresight for identifying research priorities for sustainable blue economy.</i></li> </ul>			<b>2. Marine tourism and shipping industry</b> Room: Ruang Serbaguna (Floor 4) Moderator: <b>Nana Saleh</b> , ALMI Rapporteur: <b>Meli F. Saragi</b> , CIFOR Speakers: <ul style="list-style-type: none"> <li>• <b>Frans Teguh</b>, Ministry of Tourism. <i>Prospect of marine tourism in Indonesia: challenges and opportunities towards sustainable tourism and low carbon destination.</i></li> <li>• <b>I Ketut Aria Pria Utama, FRINA</b>, ITS. <i>Reducing ship emissions: a review of potential practical improvements in the propulsive efficiency of future ships.</i></li> <li>• <b>Mohammad Naufal</b>, Green Youth Coalition. <i>The strategy of mangrove forest potency development in Labuhan village, Bangkalan regency as a blue conservation and ecotourism object.</i></li> <li>• <b>Maulita Sari Hani, Jamaluddin Jompa, M. Natsir Nessa, Alan T. White, Abraham Sianpiar, Abdi Hasan, Meidiarti Kasmidi, Rafid Shidqi, Edy Setyawan</b>; Conservation International, Hasanuddin University, University of Washington, and Sea Sanctuary Trust. <i>Manta ray distribution in manta sandy – Raja Ampat: monitoring implications for sustainable manta ray tourism.</i></li> </ul>	
<b>3. Institution and governance system for blue carbon</b> Room: Auditorium (Floor 2) Moderator: <b>Sudirman Nasir</b> , ALMI, Hasanuddin University Rapporteur: <b>Iska Lestari</b> , IPB Speakers: <ul style="list-style-type: none"> <li>• <b>Tuti Herawati</b>, FOERDIA. <i>Discrepancy of mangrove management in Indonesia.</i></li> <li>• <b>Benjamin M. Brown</b>, Charles Darwin University. <i>Low hanging fruit or red herring? Identifying bottlenecks and opportunities which determine mangrove forest landscape rehabilitation (MFLR) opportunity in Indonesia.</i></li> <li>• <b>Yusran Nurdin Massa, Paul Emmanuel Muylaert, Laila Adila, Akhzan Nur Iman, Jajang Sonjaya, Ratna Fadilah, Rio Ahmad, Benjamin Brown</b>; Blue Forest Foundation. <i>Blue carbon and coastal communities – opportunities for collaborative locally led mangrove and fisheries management in Indonesia.</i></li> <li>• <b>Muh. Wildan Teddy Bintang P. Has</b>, University of Indonesia. <i>Overcoming impoverishment of greenshell mussel fisherwomen in Muara Angke, Jakarta.</i></li> <li>• <b>Anisa Budiayu</b>, The Nature Conservancy. <i>Sub national model of mangrove sustainable management towards sustainability of Coastal Blue Carbon Ecosystems Initiative from Berau District, East Kalimantan.</i></li> <li>• <b>Rio Ahmad, Jajang Sonjaya, Ben Brown, Regista Rapa, Ahmad Taufik, Wahyudin</b>; Blue Forest Foundation. <i>Participatory resilience assessment to inform blue carbon programs and policies in Papua, Indonesia.</i></li> <li>• <b>Hendra Yusran Siry</b>, MMAF. <i>Challenges and Opportunities of Blue Carbon Implementation in Indonesia: MMAF Perspective</i></li> </ul>			 Will be Livestreamed	

14.30–15.00	<b>Coffee Break</b>	
15.00–16.30	<p><b>Subplenary – Donor Forum</b> Room: Auditorium (Floor 2) Facilitator:</p> <ul style="list-style-type: none"> <li>• <b>Jamaluddin Jompa</b>, Center of Excellence for Marine Resilience and Sustainable Development (MaRSAGE), Hasanuddin University</li> </ul> <p>Rapporteur:</p> <ul style="list-style-type: none"> <li>• <b>Sonny Mumbunan</b>, Research Center for Climate Change, University of Indonesia</li> </ul> <p>Speakers:</p> <ul style="list-style-type: none"> <li>• <b>Tom Owen-Edmunds</b>, UK Climate Change Unit</li> <li>• <b>Christoffer Gronstad</b>, Norwegian Embassy</li> <li>• <b>Celly Catharina</b>, US Agency for International Development</li> <li>• <b>Tonny Wagey</b>, Indonesian Climate Change Trust Fund</li> <li>• <b>Marcel Silvius</b>, Global Green Growth Institute</li> </ul>	<p><b>Scope</b> - Members of the donor community generally fine-tune their agendas based on the needs of countries and communities. These demand-driven agendas may be guided by and developed based on emerging issues, including blue carbon. Countries such as Norway, the UK, the USA, Japan, and Australia, among others, could be well positioned to support the implementation of REDD+ and NAMA, and by extension, the development and implementation of a blue carbon agenda.</p>
16.30–18.00	<p><b>Parallel Discussion Forum</b></p> <div style="display: flex;"> <div style="flex: 1;"> <p><b>4. Financing blue carbon development</b> Room: Ruang Serbaguna (Floor 4) Moderator: <b>Sonny Mumbunan</b>, Research Center for Climate Change, University of Indonesia Rapporteur: <b>Trialaksana Sari Priska Ardhani</b>, IPB Speakers:</p> <ul style="list-style-type: none"> <li>• <b>Medrilzam</b>; BAPPENAS. <i>Linking development planning and financing for marine and fisheries.</i></li> <li>• <b>Felia Salim</b>, Green Fund/Sail Ventures. <i>Blended finance for blue carbon development.</i></li> <li>• <b>Satya S. Tripathi</b>, Tropical Landscapes Finance Facility. <i>Sustainable land use bonds – can we replicate it for a blue carbon development?</i></li> <li>• <b>Bustar Maitar</b>, Kurabesi Nusantara. <i>Travel for benefit? Financing high-end marine tourism.</i></li> <li>• <b>Fitrian Ardiansyah</b>, IDH – Sustainable Trade Initiative. <i>Learning from impact investors in sustainable trade.</i></li> <li>• <b>MS Sembiring</b>, KEHATI. <i>Private Financing Initiative to Support Mangrove Restoration Programme in Indonesia</i></li> </ul> </div> <div style="flex: 1;"> <p><b>5. Understanding hydrodynamic and sustainable coastal resources</b> Room: Ruang Serbaguna (Floor 4) Moderator: <b>Alan Koropitan</b>, ALMI, IPB Rapporteur: <b>Muhamad S. Paputungan</b>, BAPPENAS Speakers:</p> <ul style="list-style-type: none"> <li>• <b>Safwan Hadi, Hamzah Latief</b>; ITB. <i>Climate change, waves and coastal vulnerability.</i></li> <li>• <b>A.R. Kartadikaria, A. Watanabe, K. Nadaoka, N.S. Adi, H.B. Prayitno, S. Soemurumekso, M. Muchtar, I. Triyulianti, A. Setiawan, S. Suratno, E. N. Khasanah</b>; ITB. <i>CO2 sink/source characteristics in the tropical Indonesian seas.</i></li> <li>• <b>Jamaluddin Jompa, Rohani Ambo Rappe, Abigail Moore, Alan Koropitan, Hawis Madduppa</b>; Hasanuddin University and IPB. <i>Potential Impacts of Climate Change and Ocean Acidification for the Future of Blue Carbon Resources.</i></li> <li>• <b>R. Bambang Adhitya Nugraha, Agus Setiawan</b>; MMAF. <i>The impact of land-used change on mangrove dynamic and shoreline changes in Muara Gembong, Bekasi, West Java.</i></li> </ul> </div> </div>	
	<p><b>7a. Coastal blue carbon and climate change (Seagrass)</b> <span style="float: right;"> Will be Livestreamed</span></p> <p>Room: Auditorium (Floor 2) Moderator: <b>Berry Juliandi</b>, ALMI, IPB Rapporteur: <b>Sigit D Sasmito</b>, CIFOR Speakers:</p> <ul style="list-style-type: none"> <li>• <b>Rohani Ambo Rappe</b>, Hasanuddin University. <i>Variability in the carbon storage of seagrass habitats.</i></li> <li>• <b>Devi N. Choesin, Dian Rosleine, M. Hizrian Irda</b>; ITB. <i>Estimation of blue carbon in seagrass meadows: problems and perspectives.</i></li> <li>• <b>Wawan Kiswara</b>, Indonesian Seagrass Foundation. <i>Seagrass and carbon studies in Indonesian waters.</i></li> <li>• <b>A'an J. Wahyudi, Afdal, Novi Susetyo Adi, Agustin Rustam, Hadiyanto, Susi Rahmawati, Andri Irawan, I Wayan E. Dharmawan, Bayu Prayudha, Muhammad Hafizt, Hanif B. Prayitno, Yusmiana P. Rahayu, Tubagus Solihudin, Restu Nur Afi Ati, Terry Louise Kepel, Mariska Astrid K., August Daulat, Hadiwijaya L. Salim, Nasir Sudirman, Devi D. Suryono, Wawan Kiswara, Indarto H. Supriyadi</b>; LIPI and MMAF. <i>Carbon stock and uptake potential by seagrass meadows and mangrove ecosystem in Indonesia</i></li> <li>• <b>Yusmiana P. Rahayu, Tubagus Solihuddin, Mariska A. Kusumaningtyas, Restu N. Afi Ati, Hadiwijaya L. Salim, Agustin Rustam, Nasir Sudirman, Tim Rixen, Andreas A. Hutahaean</b>; MMAF, ZMT Germany, and Coordinating Ministry of Maritime Affairs. <i>Sources of Organic Carbon in Seagrass Sediments in Spermonde Archipelago, Indonesia.</i></li> <li>• <b>Atika Rahmah, Mufti Petala Patria, Titi Soedjiarti</b>; University of Indonesia. <i>Comparison of carbon absorption and storage potential in macro algae <i>Gracilaria verrucosa</i> with <i>Halimeda opuntia</i> in Muara Binuangeun, Lebak District, Banten.</i></li> </ul>	
18.00	<p><b>Welcoming Dinner</b>   Room: Executive Lounge (Floor 24) <i>Short lecture on the UN Convention on the Law of the Sea (UNCLOS)</i> by <b>Hasjim Djalal</b>, AIPI</p>	



Agenda is subject to change. Visit

<http://events.globallandscapesforum.org/blue-carbon-summit/agenda/> for the most up-to-date information



To receive an email notification when the livestream is going to live, please visit  
<http://events.globallandscapesforum.org/blue-carbon-summit/livestreams/>

08.30–09.00	<b>Registration</b>	
09.00–10.30  <i>Will be Livestreamed</i>	<b>Subplenary – International Initiatives</b> Room: Auditorium (Floor 2) Facilitator: <ul style="list-style-type: none"> <li>• <b>Daniel Murdiyarto</b>, CIFOR</li> </ul> Rapporteur: <ul style="list-style-type: none"> <li>• <b>Nana Saleh</b>, ALMI</li> </ul> Speakers: <ul style="list-style-type: none"> <li>• <b>Emil Salim</b>, Indonesian Academy of Sciences</li> <li>• <b>Emily Pidgeon</b>, Blue Carbon Initiative</li> <li>• <b>Lucy Wallington</b>, International Partnership for Blue Carbon</li> <li>• <b>Andre Omer Siregar</b>, Ministry of Foreign Affairs, Republic of Indonesia</li> <li>• <b>Rili Djohani</b>, Coral Triangle Center</li> </ul>	<b>Scope</b> - Blue carbon is a relatively new issue, but the growth of initiatives and networks among stakeholders has gained momentum. Indonesia and other blue carbon countries need to join together to share their challenges and opportunities through various partnerships on this subject. Committed groups include the International Partnership for Blue Carbon (IPBC), Blue Carbon Scientific Initiative (BCI), Indian Ocean Rim Association (IORA) and Coral Triangle Center (CTC). Such a huge wave of momentum driven by a common agenda can only help to further blue carbon research and result in strong collaborations.
10.30–11.00	<b>Coffee Break</b>	
11.00–12.30	<b>Parallel Discussion Forum</b>  <b>6. Hydro-geomorphic effects of subsidence, sedimentation and sea-level rises</b> Room: Ruang Serbaguna (Floor 4) Moderator: <b>Sri Widiyantoro</b> , ITB, AIPI Rapporteur: <b>Bayu Hanggara</b> , CIFOR Speakers: <ul style="list-style-type: none"> <li>• <b>Dan Friess</b>, National University of Singapore. <i>Sea level rise is a threat to mangroves and their ecosystem services.</i></li> <li>• <b>Yohanes Risky Shellen Ginting, Daniel Murdiyarto, I Putu Santikayasa, Ali Arman Lubis</b>; IPB, CIFOR, and BATAN. <i>Mangrove distribution, sedimentation, and soil carbon accumulation in North Sumatra, Indonesia.</i></li> <li>• <b>Daniel Murdiyarto, Bayu Budi Hanggara, Ali Arman Lubis</b>; CIFOR, IPB, and BATAN. <i>Sedimentation and soil carbon accumulation in degraded mangrove forests of North Sumatra, Indonesia.</i></li> <li>• <b>Aiyen Tjoa, Daniel Murdiyarto</b>; Tadulako University and IPB. <i>Phytoremediation of heavy metal and metalloids: potentials for mangrove ecosystems.</i></li> <li>• <b>Rachmat Sule, Sri Widiyantoro</b>; ITB. <i>Gundih carbon capture and storage pilot project: current status of the first CCS project in South and Southeast Asian regions.</i></li> </ul>	<b>7b. Coastal blue carbon and climate change (Mangrove)</b>  <i>Will be Livestreamed</i> Room: Auditorium (Floor 2) Moderator: <b>Barra Robyn</b> , WRI Rapporteur: <b>Ines Ayostina</b> , Conservation International Speakers: <ul style="list-style-type: none"> <li>• <b>Haruni Krisnawati</b>, FOERDIA. <i>Incorporating mangroves into national carbon accounting and climate change mitigation actions.</i></li> <li>• <b>Naisa Aqila, Eko Haryono</b>; Gajah Mada University. <i>Carbon storage quantification in Pasar Banggi mangrove forest, Rembang, Central Java.</i></li> <li>• <b>Agustinus Kastanya, Philipus Kastanya</b>; Pattimura University and Tobelo Polytechnics. <i>Analysis of potential of mangrove ecosystems and their distribution on island clusters in Maluku province to support Indonesia's nationally determined contribution (NDC).</i></li> <li>• <b>Sigit D. Sasmito, Pierre Taillardat, Jessica N. Clendenning, Clint Cameron, Daniel A. Friess, Daniel Murdiyarto, Lindsay B. Hutley</b>; Charles Darwin University, CIFOR, National University of Singapore, and IPB. <i>Global analysis of mangrove blue carbon stock changes across disturbance regimes.</i></li> <li>• <b>Mukhammad Muryono, Aufa Imiliyana, Yuliana Lis Agustin, Indah Trisnawati</b>; ITS. <i>Allometric model of Rhizophora stylosa in Madura island East Java.</i></li> <li>• <b>Schiettecatte Laure-Sophie, Martial Bernoux, Bambang Ariftami, Louis Bockel</b>; FAO. <i>Estimating carbon sequestration and GHG emissions from coastal blue carbon projects using FAO EX-ACT tool.</i></li> </ul>
12.30–13.30	<b>Lunch</b>   Room: Floor 17	
13.30–15.00  <i>Will be Livestreamed</i>	<b>Subplenary – High-Level Forum</b> Room: Auditorium (Floor 2) Facilitator: <ul style="list-style-type: none"> <li>• <b>Prita Laura</b></li> </ul> Rapporteur: <ul style="list-style-type: none"> <li>• <b>Sudirman Nasir</b>, ALMI, Hasanuddin University</li> </ul> Speakers: <ul style="list-style-type: none"> <li>• <b>Ida Bagus Putera Parthama</b>, MOEF</li> <li>• <b>Brahmantya Satyamurti</b>, MMAF</li> <li>• <b>Safri Burhanuddin</b>, Coordinating Ministry for Maritime Affairs</li> <li>• <b>Arifin Rudianto</b>, BAPPENAS</li> </ul>	<b>Scope</b> - As a large blue carbon country, Indonesia can play a strategic role in engaging with the global agenda, such as through the Paris Agreement, Aichi Biodiversity Targets and SDGs by implementing its own national agenda. Coordinated implementation has been a challenge, but putting the common issues on a higher platform such as the medium-term development plan (known as RPJM), provides the promise of good outcomes. Work and budget programs of the line ministries of Environment and Forestry (KLHK), Marine Affairs and Fisheries (KKP) and Home Affairs, may well be guided by the Coordinating Ministry of Maritime and Agency of Development Planning (BAPPENAS) using the existing regulatory framework.
15.00–15.30	<b>Coffee Break</b>	
15.30–16.00  <i>Will be Livestreamed</i>	<b>Closing Statement</b> Room: Auditorium (Floor 2) Speakers: <ul style="list-style-type: none"> <li>• <b>Bambang Permadi Soemantri Brodjonegoro</b>, Minister for National Development Planning (BAPPENAS), Republic of Indonesia</li> </ul>	

# Blue Carbon Summit Paper Abstract Vote

Join the Blue Carbon Summit Paper Abstract Vote and select your favorite abstract based on the themes of the Summit. The abstracts featured on this voting page have gone through a professional selection process led by a scientific panel from the Akademi Ilmu Pengetahuan Indonesia (AIP), and now it's your turn to pick your favorite.

Ask your network to also vote for their favorite abstract and to support the authors and issues they highlight. The vote opens until **19 July 2018 at 23:59PM, GMT+7**. We will announce the winner on **20 July 2018**.



The author of the paper with the highest number of votes will receive **USD 400** cash from the Blue Carbon Summit Committee.

## Entries

**1. Current status and challenges of Indonesian Fishery Industry.**

Hendra Sugandhi

**2. Optimization of hybrid powered refrigerator system (solar cell plus diesel engine) for traditional fishing vessels in Makassar.**

Soetyono Iskandar, Moch. Bruri Triyono, Nurlaela Latief, A. Muh. Idkhan

**3. High economic value unsaturated fatty acid potency produced by tropical marine diatom (*Nitzschia* sp. : *Bacillariophyceae*) from Karimunjawa.**

Diah Radini Noerdjito, Gede Suantika, Djoko T. Iskandar

**4. Foresight for identifying research priorities for sustainable blue economy.**

Purnama Alamsyah, Lutfah Ariana, Irene Muflikh Nadhiroh, Ria Hardiyati, Ikbal Maulana

**5. Prospect of marine tourism in Indonesia: challenges and opportunities towards sustainable tourism and low carbon destination.**

Frans Teguh

**6. Reducing ship emissions: a review of potential practical improvements in the propulsive efficiency of future ships.**

I Ketut Aria Pria Utama, FRINA

**7. The strategy of mangrove forest potency development in Labuhan village, Bangkalan regency as a blue conservation and ecotourism object.**

Mohammad Naufal

**8. Manta ray distribution in manta sandy – Raja Ampat: monitoring implications for sustainable manta ray tourism.**

Maulita Sari Hani, Jamaluddin Jompa, M. Natsir Nessa, Alan T. White, Abraham Sianpiar, Abdi Hasan, Meidiarti Kasmidi, Rafid Shidqi, Edy Setyawan

**9. Discrepancy of policy and implementation: mangrove management in Indonesia.**

Tuti Herawati

**10. Low hanging fruit or red herring? Identifying bottlenecks and opportunities which determine mangrove forest landscape rehabilitation (MFLR) opportunity in Indonesia.**

Benjamin M. Brown

**11. Blue carbon and coastal communities – opportunities for collaborative locally led mangrove and fisheries management in Indonesia.**

Yusran Nurdin Massa, Paul Emmanuel Muylaert, Laila Adila, Akhzan Nur Iman, Jajang Sonjaya, Ratna Fadilah, Rio Ahmad, Benjamin Brown

**12. Overcoming impoverishment of greenshell mussel fisherwomen in Muara Angke, Jakarta.**

Muh. Wildan Teddy Bintang P. Has

**13. Sub national model of mangrove sustainable management towards sustainability of Coastal Blue Carbon Ecosystems Initiative from Berau District, East Kalimantan.**

Anisa Budiayu

**14. Participatory resilience assessment to inform blue carbon programs and policies in Papua, Indonesia.**

Rio Ahmad, Jajang Sonjaya, Ben Brown, Regista Rapa, Ahmad Taufik, Wahyudin

**15. Linking development planning and financing for marine and fisheries.**

Medrilzam

**16. Blended finance for blue carbon development.**

Felia Salim

**17. Sustainable land use bonds – can we replicate it for a blue carbon development?**

Satya S. Tripathi

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## Entries - Continued

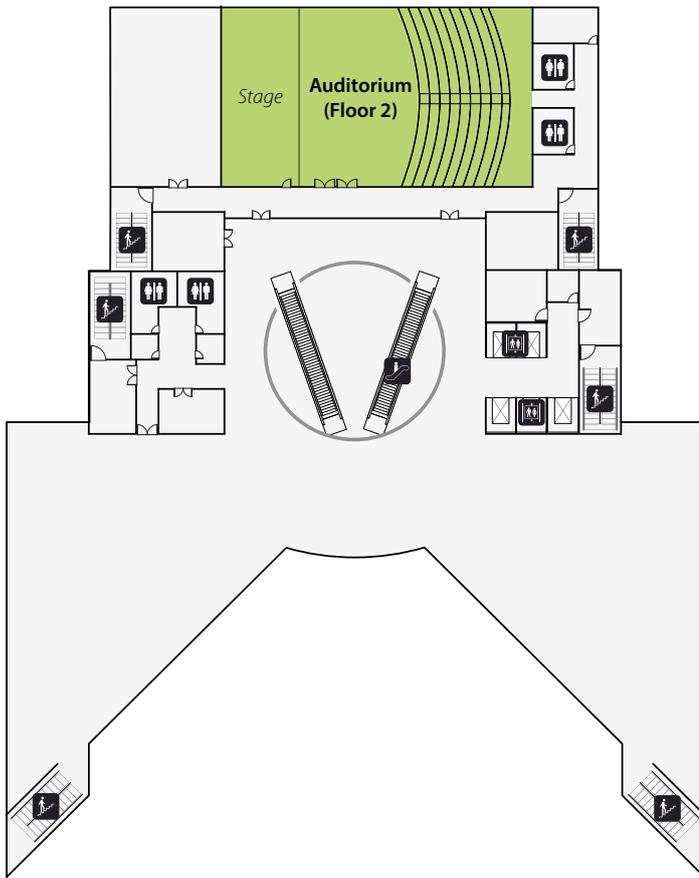
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Jamaluddin Jompa, Rohani Ambo Rappe, Abigail Moore, Alan Koropitan, Hawis Madduppa
- 23. Sea level rise is a threat to mangroves and their ecosystem services.**  
Dan Friess
- 24. Mangrove distribution, sedimentation, and soil carbon accumulation in North Sumatra, Indonesia.**  
Yohanes Risky Shellen Ginting, Daniel Murdiyarso, I Putu Santikayasa, Ali Arman Lubis
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- 26. Phytoremediation of heavy metal and metalloid: potentials for mangrove ecosystems.**  
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- 27. Gundih carbon capture and storage pilot project: current status of the first CCS project in South and Southeast Asian regions.**  
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- 28. Variability in the carbon storage of seagrass habitats.**  
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- 31. The impact of land-used change on mangrove dynamic and shoreline changes in Muara Gembong, Bekasi, West Java.**  
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- 32. Carbon stock and uptake potential by seagrass meadows and mangrove ecosystem in Indonesia.**  
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- 34. Comparison of carbon absorption and storage potential in macro algae *Gracilaria verrucosa* with *Halimeda opuntia* in Muara Binuangeun, Lebak District, Banten.**  
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Agustinus Kastanya, Philipus Kastanya
- 38. Global analysis of mangrove blue carbon stock changes across disturbance regimes.**  
Sigit D. Sasmito, Pierre Taillardat, Jessica N. Clendenning, Clint Cameron, Daniel A. Friess, Daniel Murdiyarso, Lindsay B. Hutley
- 39. Allometric model of *Rhizophora stylosa* in madura island east java.**  
Mukhammad Muryono, Aufa Imiliyana, Yuliana Lis Agustin, Indah Trisnawati
- 40. Estimating carbon sequestration and GHG emissions from coastal blue carbon projects using FAO EX-ACT tool.**  
Schiettecatte Laure-Sophie, Martial Bernoux, Bambang Ariftami, Louis Bockel
- 41. Seagrass and carbon studies in Indonesian waters.**  
Wawan Kiswara
- 42. Challenges and Opportunities of Blue Carbon Implementation in Indonesia: MMAF Perspective**  
Hendra Yusran Siry



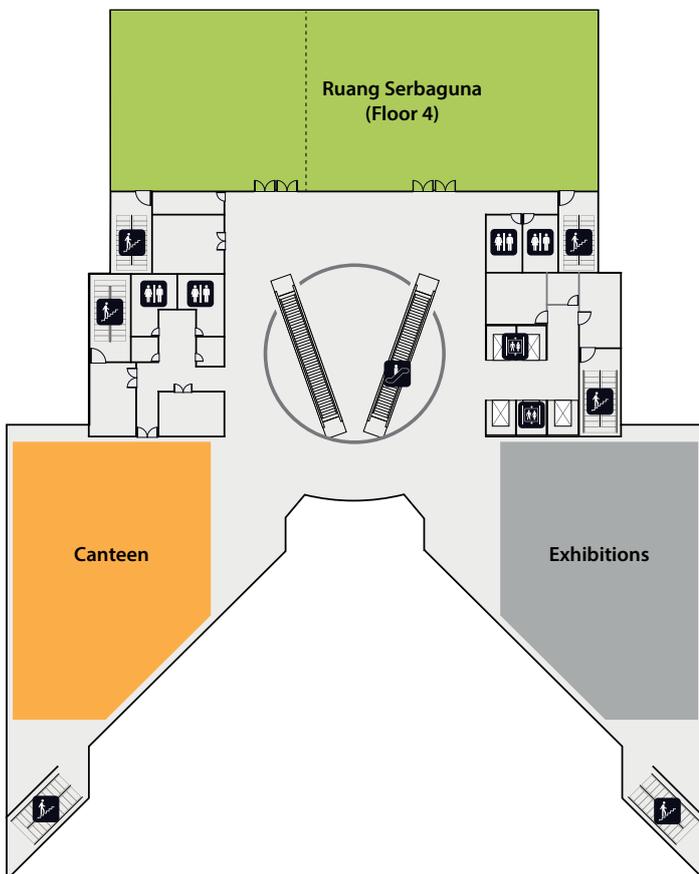
To see more complete abstract, please visit  
<http://events.globallandscapesforum.org/blue-carbon-summit/paper-vote/>

# Venue map

## 2nd floor



## 4th floor



### Legend



Elevator



Lift



Stairs



Toilet

### Exhibitions

#### Photo exhibition



#### The Tree of Life

Mangroves ecosystems in Indonesia: a strategic resource for a local sustainable economy and adaptation to climate change.

By Elisabetta Zavoli

#### Science showcase



#### Probing Indonesia's Mangroves

Learn more about Center for International Forestry Research's extensive global mangrove research at the CIFOR booth during the Blue Carbon Summit.

Peruse a variety of mangrove-related scientific publications and learn more about CIFOR as an organization. CIFOR senior scientist **Daniel Murdiyarso** and his team will also be on hand at the booth to demonstrate probing mangroves.

Organized by CIFOR

#### Science showcase



#### Promoting the Culture of Scientific Excellence in Indonesia

Selected publications from Indonesian Academy of Sciences will be showcased, all of those are the effort to promote scientific excellence in Indonesia.

Organized by Indonesian Academy of Sciences

#### Science showcase



#### Supporting the Indonesian Government for a Better Climate

Learn more about the Indonesia Climate Change Trust Fund's venture to support the Government of Indonesia to achieve its climate goals.

Organized by Indonesia Climate Change Trust Fund

### Other exhibitors

Indonesian Institute of Sciences

Belantara Foundation

# BLUE CARBON SUMMIT

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## Blue Carbon articles



### Interview

#### A brief explainer of the blue economy

*What is it – and is it sustainable?*

<https://forestsnews.cifor.org/blue-carbon/57061>



### News

#### Miracle mangrove “land builders” adapt to ocean rise amid climate change

<https://news.globallandscapesforum.org/27825>



### Fact File

#### How mangroves contribute to climate change mitigation in Indonesia

<https://news.globallandscapesforum.org/27830>



[cifor.org](https://cifor.org)

[forestsnews.cifor.org](https://forestsnews.cifor.org)

[news.globallandscapesforum.org](https://news.globallandscapesforum.org)

## Background

Blue carbon includes carbon stored in open ocean carbon pools. The dynamics are controlled by global ocean currents and weather circulation patterns and are affected by direct and indirect human interventions in marine and coastal ecosystems. Increasing sea surface temperatures have significantly affected thermohaline and associated temperature-dependent biota. This will impose significant challenges for Indonesia as a maritime country with vast resources. The first point of the **Nawa Cita Agenda** clearly stipulates the determination of the national leaders to develop Indonesia as a maritime nation – an identity that has been forgotten for a long time and hinders Indonesia in considering the opportunities of the blue economy.

Fishery and marine tourism industries are among major economic activities that generate significant revenues. The yields of caught fishes and aquaculture are closely associated with the resilience of marine and coastal ecosystems. Actions for their conservation and restoration in order to achieve healthy, productive and sustainable oceans and coastal ecosystems are urgent.

Indonesia has globally significant coastal blue carbon ecosystems, which consist of mangroves (ca. 3,000,000 ha) and seagrass meadows (ca. 300,000 ha). The importance of

coastal blue carbon has gained significant attention from the international community regarding its roles in climate change mitigation and adaptation. These ecosystems demonstrate their effectiveness in carbon capture and storage, and hence, their high potential for mitigating climate change when conserved and restored. Their ability in land building, proves that mangroves can cope with sea level rises – through adaptation to climate change. It is timely to consider coastal blue carbon ecosystems as part of the **Nationally Determined Contributions** (NDCs).

Each of these national goals, agenda and targets are closely related to global schemes, such as:

- **the Paris Agreement**, on issues related to mitigation, adaptation, loss and damage and financial mechanisms (Articles 5, 7, 8 and 9)
- **the Aichi Biodiversity Targets**, with emphasis on sustainable use of coastal and marine biodiversity resources (Targets B-8, B-10, D-15)
- **the Sustainable Development Goals**, to promote marine and coastal ecosystems' sustainable management by strengthening their resilience and restoration (Target 14.2)
- **the Bonn Challenge**, regarding restoration of 150 million ha of degraded landscape in 2020 and 350 million ha in 2030.

### Coordinating Partners



### Funding Partners

