



United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development

**The 14th Intergovernmental Session of the IOC Sub-Commission for the Western Pacific (WESTPAC-XIV),
Jakarta, 4-7 April 2023**

Progress Report

National Program for the Decade of Ocean Science

Prepared by

Augy Syahailatua

Sekretariat KomNas IOC- UNESCO

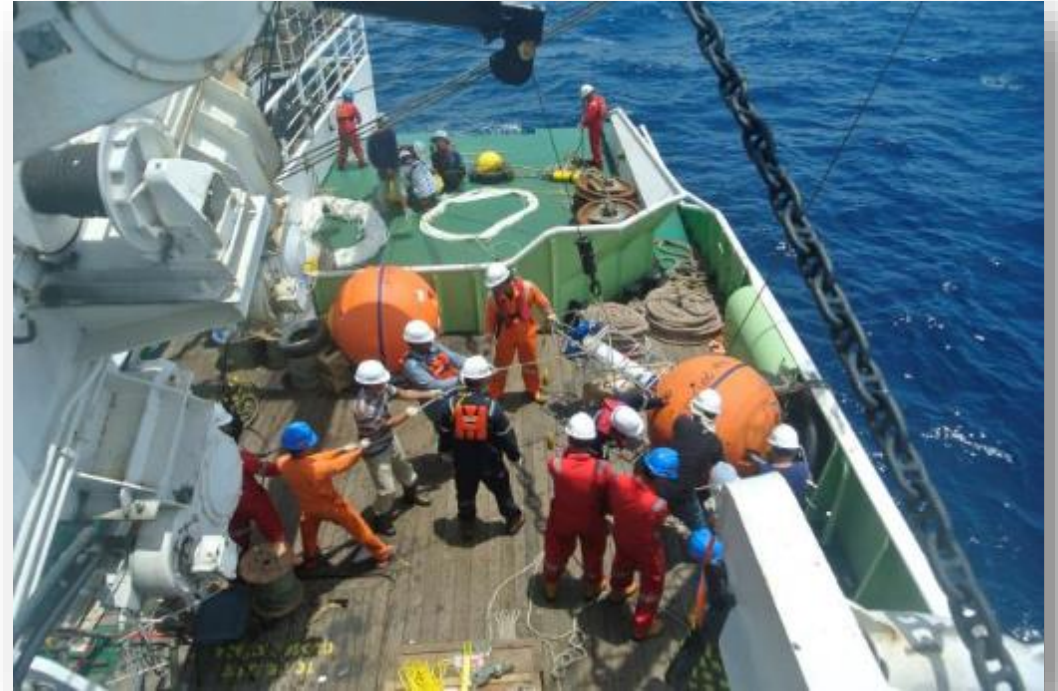
Kampus Gatot Subroto BRIN, Gedung PDDI Lantai 6

Jl. Gatot Subroto Kav. 10, Jakarta Selatan

Email: iocunesco@brin.go.id

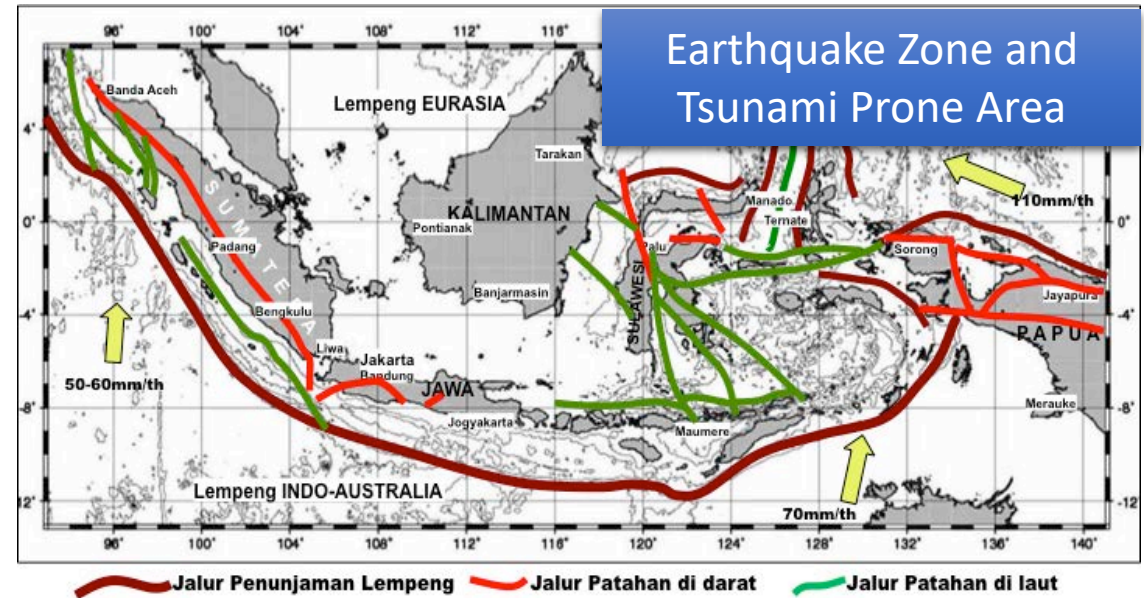
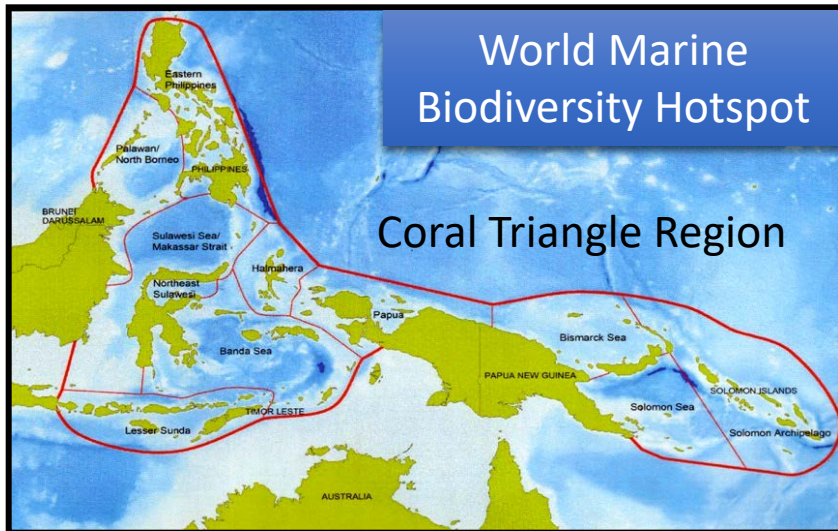
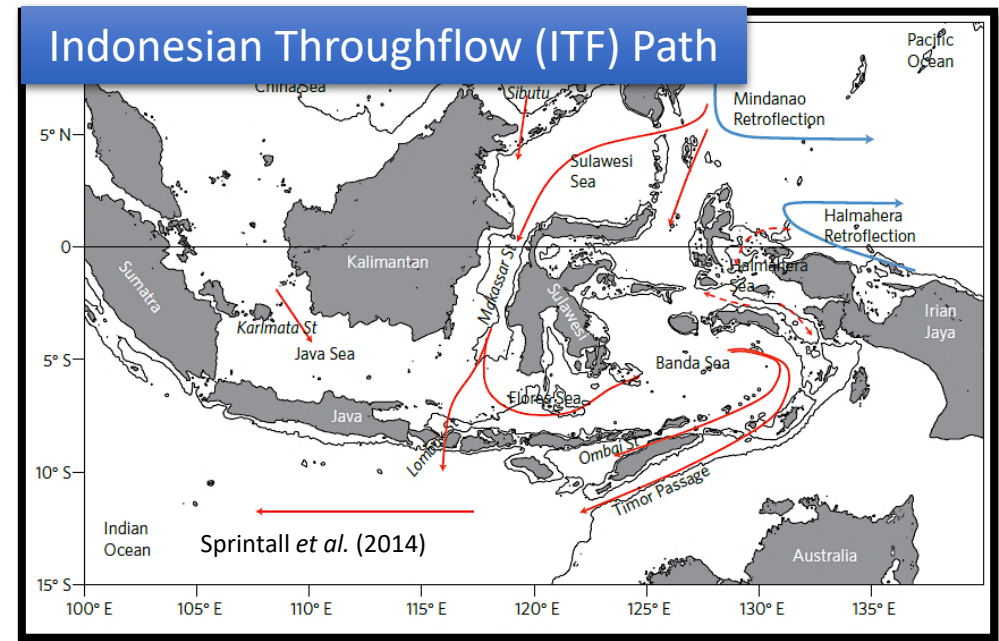
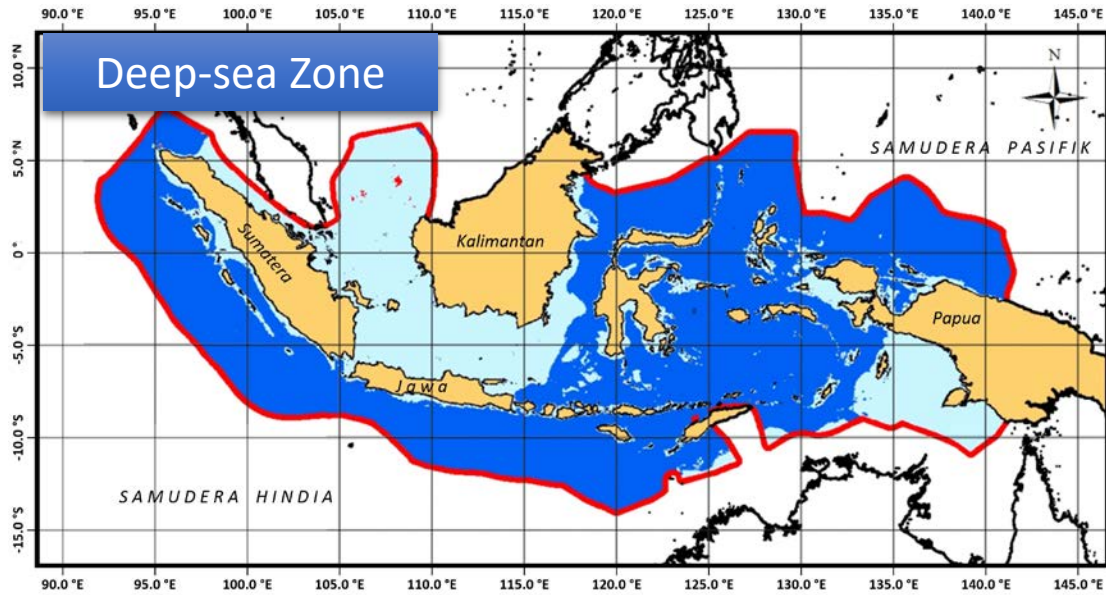
Outline

- Highlight the geography of Indonesia Archipelago
- Preparation for the Decade
- National Program in progress and preparation
- Supporting Systems for the Decade
 - Institutions & Expertise
 - Research Infrastructures
 - Funding schemes



“TRIUMP 2018”, Joint Cruise of FIO, Univ of Maryland, and RC Deep-Sea LIPI (LIPI Doc)

Indonesia archipelago



Lee & Lawver, 1995; Sapiie et al, 1999; Hall & Wilson 2000; Avouac, 2005; Natawidjaja, 2007; Dotsea, 2005; GMT map v4.3



RTRC Marine Biodiversity and Ecosystem Health (MarBEST), established in 2016

Indonesia Ocean Research Consortium, established in 2017

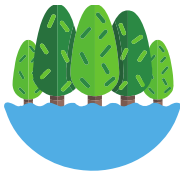


Strategic Issues And Policy Direction Of Maritime & Marine 2020-2024

CURRENT CONDITION



01 **6.04%** contribution of Maritime GDP which is included in the low category



01 Marine conservation area of 20.8 million ha (6.12% of water area)

STRATEGIC ISSUES

01



RTRW (mainland) and RTRLN and RZWP3K are not integrated

02



Marine pollution is still happening.

03



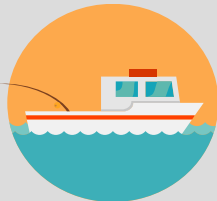
Limited marine human resources (knowledge and skills) and technology dissemination

04



Still high logistics costs

05



Maritime productivity is not optimal

06



The high level of marine biodiversity loss, both at the ecosystem, species and genetic levels

POLICY DIRECTION


Maritime and Marine Economic Development

1. Development of fishery and marine industry cluster
2. Strengthening fisheries infrastructure, including the development of a cold chain system
3. Strengthening accessibility and competitiveness of leading marine tourism destinations in 24 locations
4. Optimizing the use of marine products: biotechnology (marine bioproducts) Pengembangan konektivitas laut

Marine Ecosystem Management

1. Sustainable Fisheries Development
2. Integration of land and sea spatial planning
3. Development of marine conservation areas
4. Protection and preservation of marine biodiversity
5. Rehabilitation of coastal areas and ecosystems
6. Marine pollution & waste management

Important Document related to the Decade


**PRESIDEN
REPUBLIK INDONESIA**

SALINAN

**PERATURAN PRESIDEN REPUBLIK INDONESIA
NOMOR 34 TAHUN 2022
TENTANG
RENCANA AKSI KEBIJAKAN KELAUTAN INDONESIA
TAHUN 2021-2025**

**DENGAN RAHMAT TUHAN YANG MAHA ESA
PRESIDEN REPUBLIK INDONESIA,**

Menimbang :

- a. bahwa untuk mewujudkan cita-cita Indonesia sebagai Poros Maritim Dunia, perlu disusun Kebijakan Kelautan Indonesia;
- b. bahwa Rencana Aksi Kebijakan Kelautan Indonesia Tahun 2016-2019 sebagai bagian dari Kebijakan Kelautan Indonesia sebagaimana diatur dalam Peraturan Presiden Nomor 16 Tahun 2017 tentang Kebijakan Kelautan Indonesia, perlu dilanjutkan secara terpadu dan berkesinambungan melalui pelaksanaan berbagai program dan kegiatan kelautan sesuai dengan target pembangunan nasional pada kementerian/lembaga dan pemerintah daerah dalam Rencana Aksi Kebijakan Kelautan Indonesia Tahun 2021-2025;
- c. bahwa berdasarkan pertimbangan sebagaimana dimaksud dalam huruf a dan huruf b, perlu menetapkan Peraturan Presiden tentang Rencana Aksi Kebijakan Kelautan Indonesia Tahun 2021-2025;

Mengingat : Pasal 4 ayat (1) Undang-Undang Dasar Negara Republik Indonesia Tahun 1945;

MEMUTUSKAN:

Menetapkan : PERATURAN PRESIDEN TENTANG RENCANA AKSI KEBIJAKAN KELAUTAN INDONESIA TAHUN 2021-2025.

Pasal 1 . . .

SK No 097830 A




**LAPORAN
PELAKSANAAN PENCAPAIAN
TPB/SDGS TAHUN 2021**

KEMENTERIAN PERENCANAAN PEMBANGUNAN NASIONAL/
BADAN PERENCANAAN PEMBANGUNAN NASIONAL




Kementerian PPN/
Bappenas


OECD

**BLUE
ECONOMY**

**DEVELOPMENT FRAMEWORK FOR
INDONESIA'S ECONOMIC TRANSFORMATION**

Ministry of National Development Planning/
National Development Planning Agency (Bappenas)

7 BRIN Research and Development Priorities



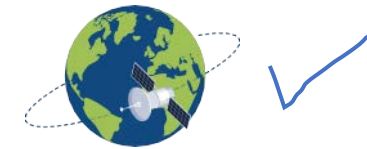
Digital-Blue-Green Economy



Biodiversity Research and its value-added development



Research on COVID-19



Space Technology



Scientists' Collaborative Research Engagement



Human Resources Development



Technology for Disaster Management/ Mitigation

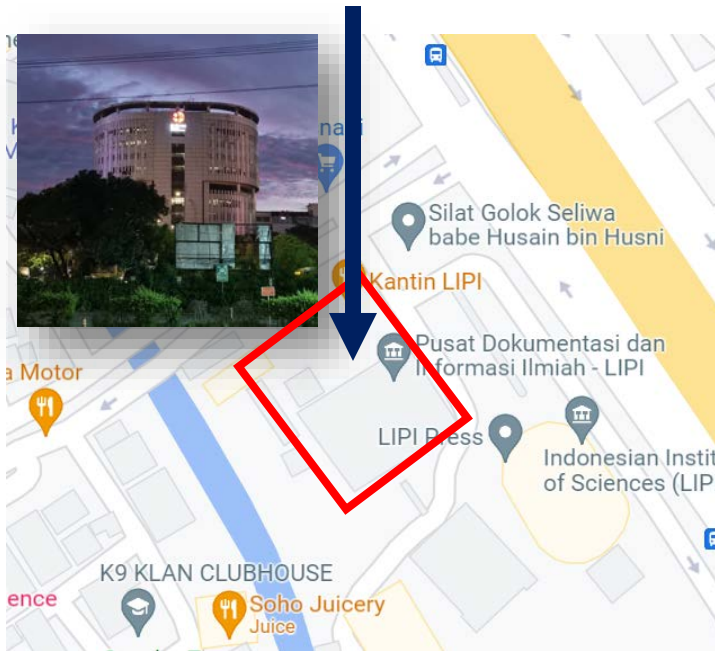
Source: BRIN, 2022

National Program IOC-UNESCO, 2022-2024

- 1. Establishment the National Committee for the Decade of Ocean Science, and Working Group – *in progress (5 chairs, 20 WGs)***
 - Chair I: Ocean Science & Technology
 - Chair II: Coastal S&T
 - Chair III: Ocean Services
 - Chair IV: Research Support
 - Chair V: Ocean Literacy
- 2. Aligning the marine research agendas at the national and global levels**
 - *Ocean Research Consortium (since 2017)*
 - *Decade Action on Small Island Studies*
- 3. Involvement in the preparation of the Regional Oceanographic Research Agenda**
 - **UN21:** Marine Spatial Planning in the Western Pacific and its Adjacent Areas
 - **UN22:** Asia's riverine plastic emission into the ocean
 - **UN23:** Regional Network of Training and Research Centers (RTRCs) on Marine Science
 - **UN 24:** the 2nd Cooperative Study of Kuroshio and Adjacent Regions – from its sciences to human well beings

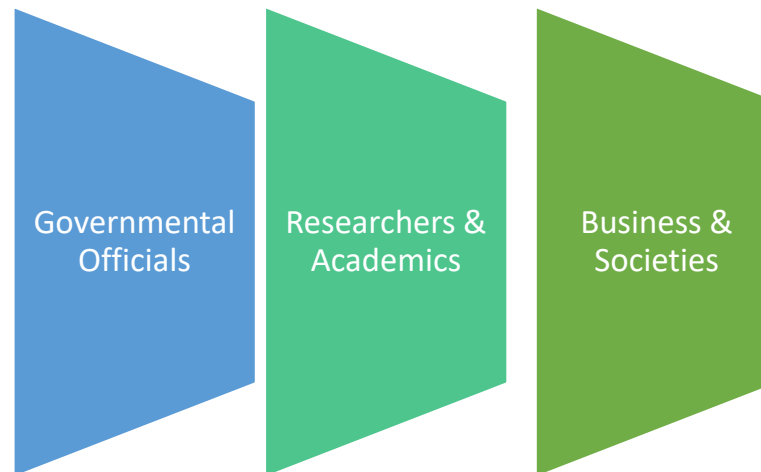
Establishment the ND Office, Committee & ECOP

*Office**: BRIN Campus at Jl. Gatot Soebroto Kav 10, Jakarta



**) sharing office with the National Committee for IOC UNESCO*

Committee (in progress): to be consisted of members from several groups of experts with different discipline



ECOP (Early Career Oceanography Professional)

- National Coordinator : Dr Beginer Subhan (IPB Univ.)



- Begun to register ECOP members from Universities, Research Inst. and NGO since early 2023
- ~ 40 members already registered

Science Policy Interface on the Implementation of UNESCO/IOC Tsunami Ready



Policy Brief on Tsunami Ready Program Acceleration submitted to NTRB & IOTIC, Jan. 2023



MBKM Activities on Tsunami Ready Program Acceleration in Indonesia – Introductory and OJT, 27 Feb – 17 Mat' 2023



Enhancing Ocean Literacy Through Fishermen Field School



INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION
COMMISSION OCÉANOGRAPHIQUE INTERGOUVERNEMENTALE
COMISIÓN OCEANOGRÁFICA INTERGUBERNAMENTAL
МЕЖПРАВИТЕЛЬСТВЕННАЯ ОКЕАНОГРАФИЧЕСКАЯ КОМИССИЯ
اللجنة الدولية الحكومية لعلوم المحيطات
政府间海洋学委员会

UNESCO - 7 Place de Fontenay - 75352 Paris Cedex 07 SP, France
http://ioc.unesco.org - contact phone: +33 (0)1 45 68 03 18
E-mail: v.yabinin@unesco.org

Ref. : IOC/VR/22.211/JB/AC/mb

3 June 2022

Subject: Endorsement letter of Decade Action No.132.2

Dear Ms Karnawati,

It is with great pleasure that I am writing to inform you of the endorsement of your Decade Action entitled "No.132.2. Fisherman Weather Field School (SLCN)" as a project forming part of the UN Decade of Ocean Science for Sustainable Development 2021-2030. Please accept my sincere congratulations for this achievement. Let me also thank you for your engagement and commitment to the Ocean Decade vision of the science we need for the ocean we want.

Within the structure set out in the Ocean Decade Implementation Plan, individual projects are typically attached to endorsed Decade programmes. We are pleased to inform you that your project will be attached to "No. UN2. Observing Together: Meeting Stakeholder Needs and Making Every Observation Count". The attached Charter for Endorsed Projects provides more information on the respective roles and responsibilities of Decade programmes and projects. The contact people at your relevant Decade programme are Albert Fischer, Emma Heslop and Mairéad O'Donovan (A.Fischer@unesco.org; e.heslop@unesco.org; m.o-donovan@unesco.org) and we encourage you to reach out to them to commence exchanges and discussions.

As you further develop and start implementing your project, we would like to remind you of the Ocean Decade endorsement criteria, including those related to co-design, engagement of users all along the ocean science value chain and decision and policy makers, and those related to open and accessible data management. As an endorsed Decade Action, we expect you to adopt these principles and approaches in your Decade project and to engage via the Communities of Practice that are described below to share experiences and access information and tools on these approaches. We have also attached here a recent publication from the Ocean Decade on co-design approaches that may prove useful in this regard.

Endorsed by IOC of Decade Action

IMPROVED UNDERSTANDING OF MARINE WEATHER / OCEAN INFORMATION

EASY ACCESS TO MARINE WEATHER / OCEAN INFORMATION

ACCURATE AND COMPREHENSIVE OF MARINE WEATHER/OCEAN INFORMATION

FISHERMEN AWARE/UNDERSTAND MARINE WEATHER/OCEAN INFORMATION

Potential Partners for NDC



Ministry of Foreign Affairs



Coordinating Ministry of Maritime Affairs & Investment



Ministry of Marine Affairs & Fishery



National Development Planning Agency



BADAN INFORMASI GEOSPASIAL



BMKG



Min. of Environment & Forestry



AIS Forum



Univ. of Indonesia



Univ. of Gadjahmada



Univ. of Padjadjaran



Univ. of Sriwijaya



IPB University



Bandung Institute of Technology



Univ. Diponegoro



Univ. Pattimura



Univ. of Jenderal Soedirman



Univ. Maritim Raja Ali Haji



Univ. Hasanuddin



Univ. Sam Ratulangi

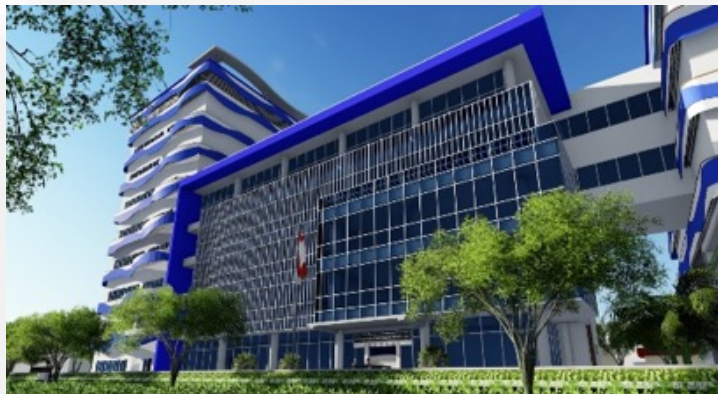


BRIN

- RC for Oceanography
- RC for Fishery
- RC for Maritime Climate & Atmospheric
- RC for Deep-sea
- RC for Geological Disaster
- RC for Population

Research Infrastructures & Methodologies

Jakarta



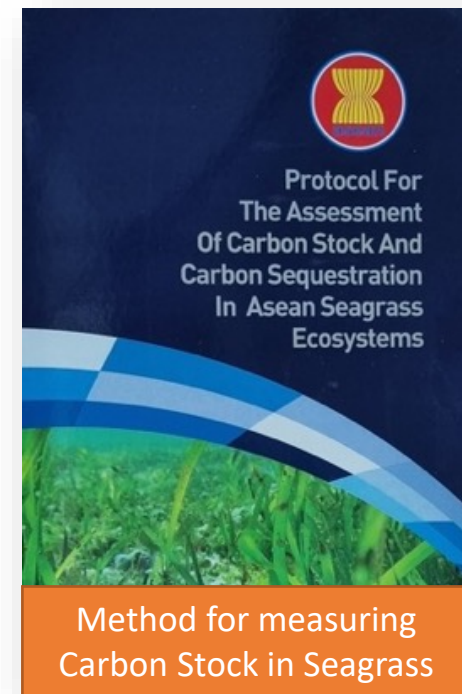
Integrated Oceanography Research Lab
(Laterio)

Lombok

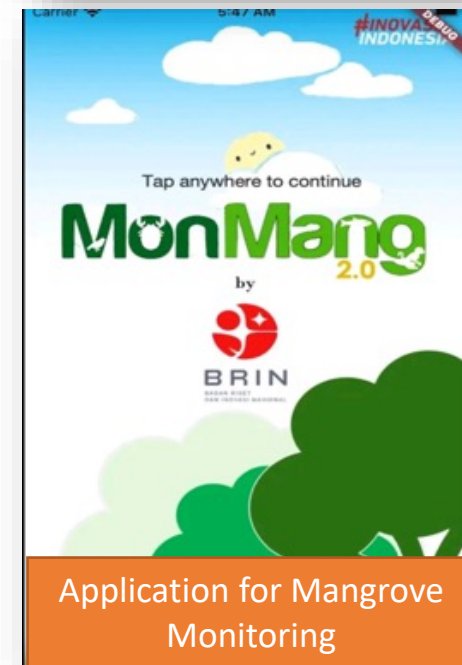


Marine Bio-Industry Research Lab

Research Vessels

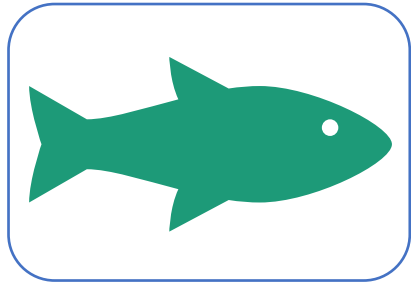


Method for measuring
Carbon Stock in Seagrass

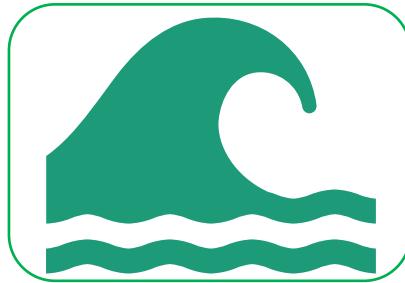


Application for Mangrove
Monitoring

Funding Opportunities to support the Decade Actions



Expedition &
Exploration



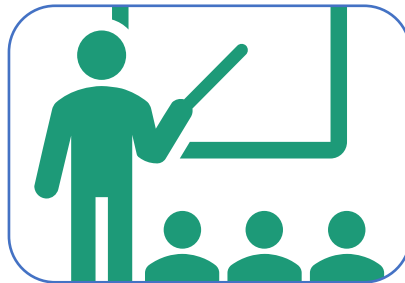
Research
Cruise



Collaborative
Research



Post-Doc
Program



Visiting
Professor



Post Graduate
Program

Summary

1. Developing the National Decade Program following the national plan of actions on marine and fishery programs, SDGs targets, and blue economy strategy;
2. Using available funding schemes for implementing the Decade Program in Indonesia (e.g. Research cruise, Floating school, Visiting scientists, Joint research, and Post-Doc programs);
3. Strengthening the networks among stakeholders in ocean science at national, regional and global levels;
4. Finding new financial supports from other partners (e.g. Archipelago and the Island States Forum, Coordinating Ministry for Maritime Affairs and Investment, etc);
5. Completing and refining the national decade committee, for better coordination with other parties in order to achieve the ultimate goals of the decade programs/actions up to 2030



Integrated Oceanographic Research Lab,
Jakarta - Indonesia



United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission



Thanks

Acknowledgment : Prof Zainal Arifin, Dr Andi Eka Sakya, Dr Nelly Florida, and all members of NDC for their significant contributions to strengthen Indonesia Decade networks.