

Agenda 3.2

An overview of the Sub-Commission's major progresses since the last session (WESTPAC-XIII, 27-29 April 2021)

Wenxi Zhu, Ken Ando, Fangli Qiao, Tan Shau Hwai , Vo Si Tuan, Zainal Arifin, Gil Jacinto, Somkiat Khokiattiwong, Youn-Ho Lee, Weidong Yu

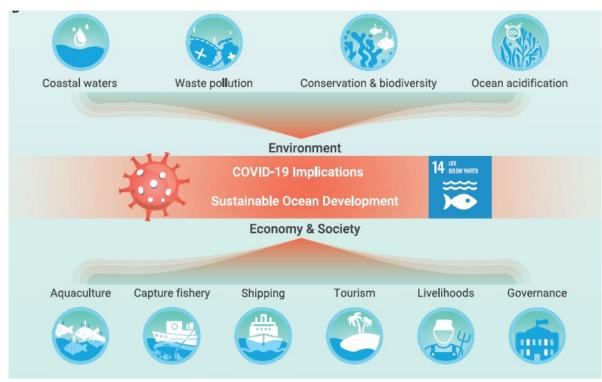
Decade Coordination Office, IOC Sub-Commission for the Western Pacific



Fourteenth Intergovernmental Session of the IOC Sub-Commission for the Western Pacific 4-7 April 2023, Jakarta, Indonesia



Reflections on The COVID-19 impacts and sustainable ocean development



Schematic diagram credit: Jiang Q., Xu Z., and Zhang H. (2022), Global impacts of COVID-19 on sustainable ocean development. The Innovation 3(4), 100250





Intergovernmental Conference on Marine Biodiversity of Areas Beyond National Jurisdiction





UN Ocean Conference Lisbon, Portugal



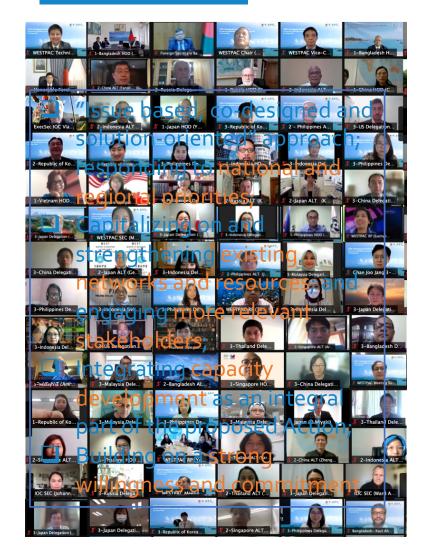




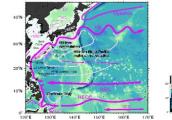
WESTPAC-XIV, 4-7 April 2023, Jakarta, Indonesia

Looking back to move forward! Major results of the last Session (WESTPAC-XIII, 27-29 April 2021, online)





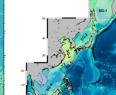
• <u>Establishment of new programmes/Working Groups</u>



2nd Cooperative Study

of Kuroshio and its

adjacent regions



Asian Marginal Seas

WG: Indo-Pacific Convergent Center -Marine Ecosystem and Biodiversity (I3PCC-MEB)

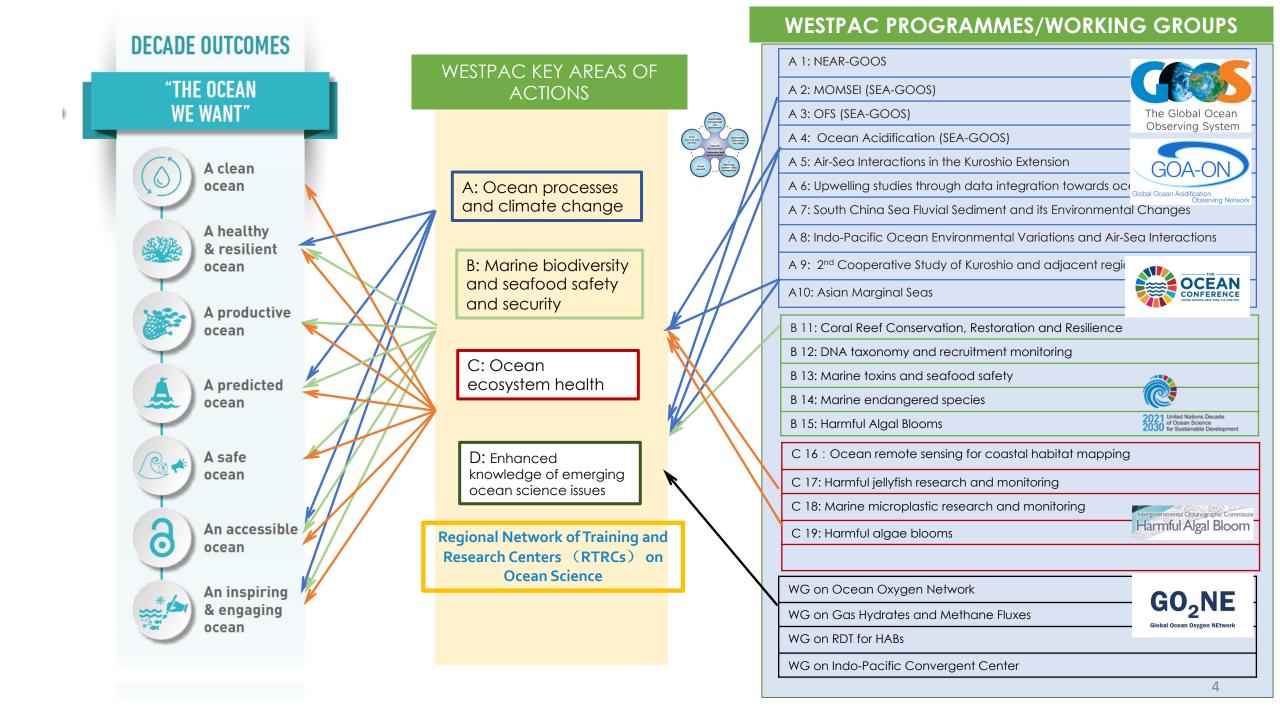


WG: Rapid detection technologies for harmful algal blooms

• *Promoting, and mobilizing actions for the Ocean Decade*

Welcomed the kind offer of the Government of Thailand to host: (i) a Decade Coordination Office; (ii) the Decade Regional Kickoff Conference (August 2021, online), and the first Decade Regional Conference in conjunction with the 11th WESTPAC International Marine Science Conference in 2023.

- Development of pipeline proposals for UN Decade Actions
- <u>Adopted its Programme and Budget (May 2021-Apri 2023</u>) most of joint activities to be conducted via EXB support





Regional Planning Workshop for the North Pacific



Regional Planning Workshop for the North Pacific on 31 July – 2 August 2019, Tokyo, Japan



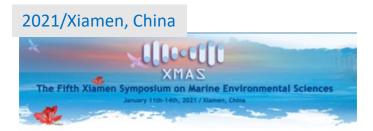
Workshop on UN Decade of Ocean Science for Sustainable Development on 5-6 September 2019, Qingdao, China Decade regional dialogue on co-designing ocean science we need



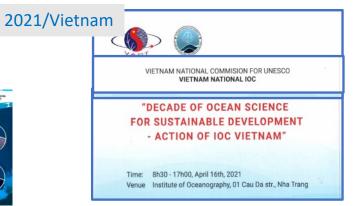
Decade Regional Dialogue on co-design ocean science on 9 November 2020, Remote



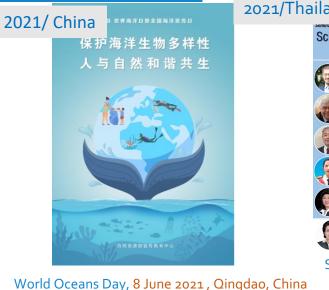
Launch of Malaysia' s Decade of Ocean Science for Sustainable Development , on March 29-31 , 2021, Malaysia



Special Forum on the UN Decade of Ocean Science for Sustainable Development on September at the X-MAS, on 14 January 2021, Xiamen, China



National Workshop on the UN Decade of Ocean Science for Sustainable Development, on 16 April 2021, Nha Trang, Vietnam





National Workshop on the UN Decade of Ocean Science 1 December 2021, Bangkok , Thailand



Science for Sustainable Use of the Oceans, 28 September 2021, Thailand



East Asia Summit Workshop on Maritime Cooperation "Technical and Scientific Cooperation Towards Clean, Healthy, and Sustainable Oceans", August 30 - September 1, 2022, Manila, Philippine

2021/UNESCAP

12:00 - 12:40 Introduction and

12:40 - 14:00

14:00 - 14:30

nteractive dialogue

n breakout group

elcome remark

ESCAP

A. Internation

operation on the

connectivity for

UNESCAP Asia-Pacific Day for the Ocean,

27 October 2021, online





International Workshop on Small Island Studies , 19-20 August 2022, Jakarta, Indonesia

2022/ China

ASIA PACIFIC 27 October 2021

D: Ocean-climate

(SRO-NEA

nexus: Blue Carbo

C: Accounting for

linkages: data

ntegration to

(SD, GOAP)

ocean and econom

rotect marine and

oastal ecosystems



IOI International Training on Ocean Governance, 7 September 2022 , Tianjin China



Watch the YouTube livestream video!

- More than 3, ooo participants
- High Level Commitments & Stakeholder Roundtable Dialogue
- Voice from the Youth
- 17 UN Ocean Decade Incubators









https://www.ioc-westpac.org/decade-kickoff-conference/progra

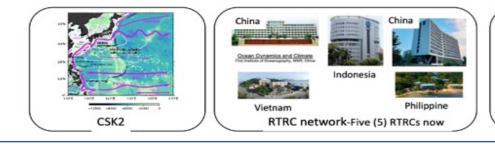




More Decade Actions details under Agenda 4.2

Four Sub-Commission's actions jointly developed and accepted as UN Decade Actions (Programme/Project)

- UN 24---Explore the strongest ocean current in the Western Pacific: <u>the 2nd Cooperative Study of</u> <u>Kuroshio and Adjacent Regions</u> – from its sciences to human well beings
- UN 23---Accelerating capacity development transformations in the Western Pacific <u>Regional</u> <u>Network of Training and Research Centers (RTRCs)</u> on Marine Science
- UN 22---Stem the tide of <u>Asia's riverine plastic emission</u> into the ocean
- UN 21---Accelerate Marine Spatial Planning in the Western Pacific and its Adjacent Areas





Decade DCO extending WESTPAC office with the support of all countries !

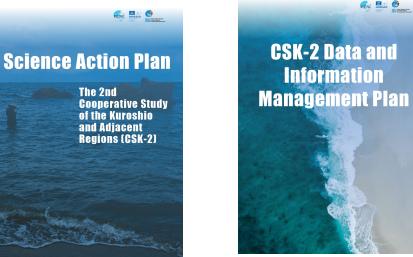
- UN 24: 2nd Cooperative Study of Kuroshio and Adjacent Areas (CSK-2)
- 1. The ISG for CSK-2 formed in Aug 2021, with three meetings convened in Dec 2021, June 2022, and Feb 2023
- 2. CSK-2 Science Action Pan and Data & Information Management Plan developed and adopted at ISG-2;
- CSK-2 registered as a UN Decade Program (UN24) in April 2022;
- 4. The first call for CSK-2 issued in Mid Oct 2022;
- 5. Engagement efforts made at various international for a, including AOGS 2022, OSJ 2022...

More details at the Agenda item 5.2













 Minimize and address the impacts of ocean acidification, including through enhanced scientific cooperation at all levels



On going efforts since August 2021





Delivering knowledge and services to serve member states' needs

• Minimize and address the impacts of ocean acidification, including through enhanced scientific cooperation at all levels



National training and stakeholder engagement workshops in

Malaysia (Penang, 20-22 September 2022), Vietnam (Nha Trang, 13-15 October 2022), and Thailand (Phuket, 2-4 November 2022)





Delivering knowledge and services to serve member states' needs

• Advance the application of remote sensing for sustainable development





KeyAreas of Action-2





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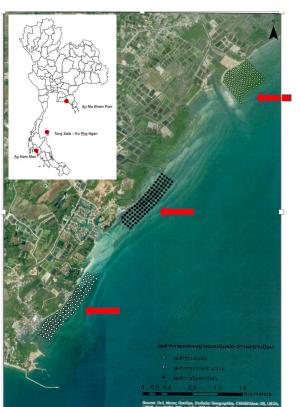


Key Areas of Action-2. Delivering knowledge and services to serve member states' needs



• Advance the application of remote sensing for marine habitat conservation





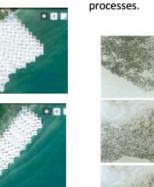
Photos taken by drone at each point

Examples of seagrass photos taken by drone for further processes and input in the GEE The result of the GEE analysis found the coverage of seagrass in 3 sites is 0.72 km²

Sand

Low density (% of seagrass coverage is < 25)

High density (% of seagrass coverages 51-75)





Ao Ma Kham Pom, Rayong Province, Thailand



KeyAreas of Action-2



Delivering knowledge and services to serve member states' needs

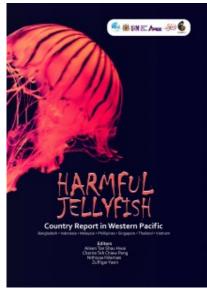
• Accelerate marine spatial planning in the Western Pacific- UN 21 & MSPglobal 2.0



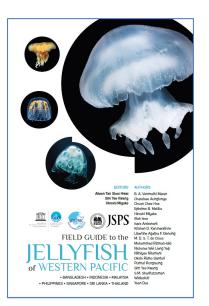


Delivering knowledge and services to serve member states' needs

• Delivering knowledge on harmful jellyfish for public health



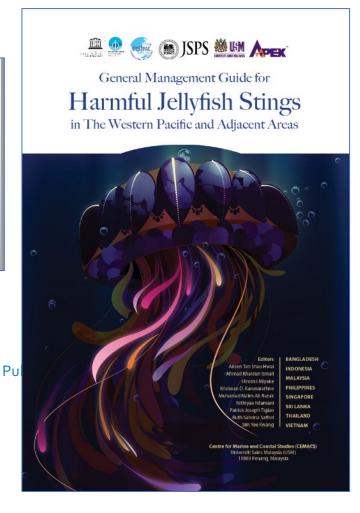
KeyAreas of Action-2











KeyAreas of Action-2



Delivering knowledge and services to serve member states' needs

• Development of integrated coral reef monitoring manual for MPAs in Vietnam









Key Areas of Action-2. Delivering knowledge for emerging ocean issues



• WG on gas hydrates and methane fluxes in the Indo-Pacific region and their impact on climate, ecosystem and socio-economic development

Objective: to prepare a long-term international collaborative project under WESTPAC.

Workplan for 2023-2024

- 2nd CoSGas workshop, September, 2022 presentation of national reports on related studies
- Development of the CoSGas Report on the status of the gas hydrates studies and associated phenomena in the WESTPAC countries draft by Feb 1, 2023
- 3rd CoSGas workshop, Mar, 2023, and 4rd CoSGas workshop, Sept 2023: Discussion on main WG results and key items of the new project on Gas-hydrates and methane studies under WESTPAC.



- 1st CoSGas meeting, March 18, 2022, 15 participants: China, India, Indonesia, Japan, New Zealand, Russia, Vietnam
- 1st CoSGas workshop "Recent Advances and Current Challenges of Gas Hydrates and Methane Research in the Indo-Pacific Region", May 17, 18 and 24, 2022, 12 participants: China, India, Indonesia, Japan, Russia, Vietnam

Key Areas of Action-2. Delivering knowledge on emerging issues

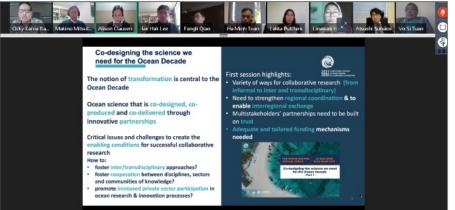


 WG on Integrated Investigation in Indo-Pacific Convergence Center: Marine Ecosystem and Biodiversity

Objective: Identify the priority issues on marine ecosystem and biodiversity research in the IPCC area from multi-circle and multidisciplinary perspectives, which could address A Healthy and Resilient Ocean; Improve understandings on formation mechanism, current status, and trend of evolution of the biodiversity center in the IPCC and their socio-economic impacts.

Workplan for 2023-2024

- Organize several Co-design meetings to promote the I³PCC-MEB Programme and develop the Science Action Plan.
- Coordinate a I³PCC-MEB Side Event at the 4th Open Science Symposium on Western Pacific Ocean Circulation and Climate organized by NPOCE and engage more partners in Oct 2022.
- Organize International conference on Indonesian Throughflow (ITF)
 2023 (Organizer: BRIN-RCO and IOCAS)
- Promote the communication and collaboration within the I³PCC-MEB framework



Organized two Scientific Committee meetings to identify the priority areas and common interests in the Indo-Pacific Convergent Center

Conducted a side event – "the Decade Action Incubator 8" at the UN Ocean Decade Regional Kickoff Conference for the Western Pacific and its adjacent areas

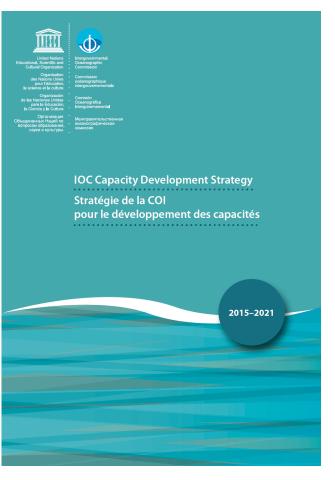
KeyAreas of Action-3. Capacity building for development



Medium-Term Strategy

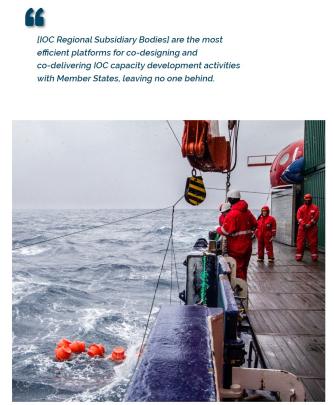
2022-2029







' If you want to go fast, go alone; If you want to go far, go together!'



Weddell Sea, Antarctica I. Noyan Yilmaz/Shutterstock.com

Empowering people in marine science: WESTPAC Efforts in Capacity Development



KeyAreas of Action-3. Capacity building for development

Guiding principles: Adaptive, inclusive and empowerment

Approaches:

- □ Target early career ocean professionals
- Link training to the attainment of research goals by integrating CD into program development
- Co-design and co-development with Member States
- Suit national and regional needs, while closely following global emerging issues

Integrated capacity development tools

"Development of "UNESCO/IOC Regional Network of Training and Research Centers (RTRCs) on Marine Science"

Inclusion of capacity building into WESTPAC research programmes and conduct of a series of regional and national tailored training (or training workshop) in Mamber States on a rotaion basis

"Training Through Research" via the engagement of early career scientist into WESTPAC research programmes

Establishment of "**WESTPAC Best Young Sientist Award**" and "WESTPAC Young Scientist Grant" to nurture young science leaders and facilitate international exposure of young scientists WESTPAC remains adaptive and inclusive to any capacity development tools

Initiation of "**WESTPAC Young Scientist Forum for WESTPAC** early career scientist to exchange their perspective on marine science development and cooperation

Conduct of "**Bring Marine Science to School**" to inspire young generations/school students on ocean and marine science



2021 United Nations Decade of Ocean Science for Sustainable Development





Somkiat Khokiattiwong Programme officer for marine biodiversity



Angkana Rawichutiwan **Decade Regional Coordination Officer**



Head of the Office



Zhiwei Zhang Programme officer for Marine Spatial Planning



Nachapa Saransuth Senior Programme Assistant

Shengle Yin Junior Professional Officer



Ocean Science Communication



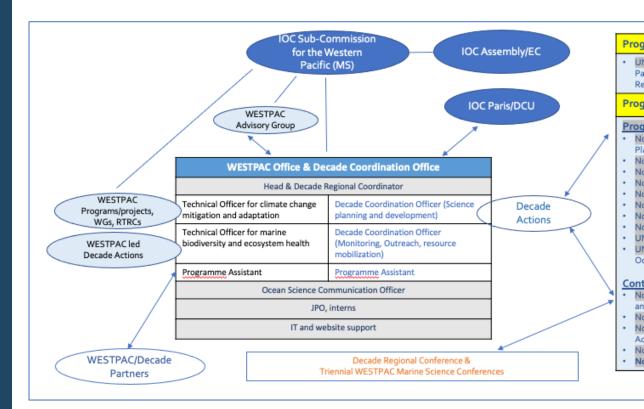
Thirakan Saibua Administrative Staff



Knowledge and Information Management



Operation WESTPAC Office/Decade Coordination Office



Future effort

- 1. A huge amount of efforts in adapting to the new normal, in particular in relation to the Ocean Decade, with a lot of good practices made in delivering direct benefits to MS.
- 2. Ocean research impacts to be greatly enhanced, with the following approach to future programme development
 - Issue-based, solution-oriented approach, responding to national and regional priorities
 - Define "SMART" objectives
 - Involve end users, engage key stakeholders--uptake and use of research outside academia
 - Co-design and co-produce
 - Disseminating of research-efficient communication
- Leverage the opportunities of the UN Ocean Decade
 Strengthen the WESTPAC Office/DCO









https://www.oceandecade.org/





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and Fisheries







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AMSTEC













EAFD



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THAI National Commission for UNESCO United Nations Educational, Scientific and สำนักเลขาธิการคณะกรรมการแห่งชาติว่าด้วยการศึกษา Cultural Organization วิทยาศาสตร์ และวัฒนธรรม แห่งสหประชาชาติ (ยูเนสโก)





The Ocean We Need for Future We Want

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EAST CHINA NORMAL

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OCEAN SCIENCE & TEC

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https://ioc-westpac.org iocwestpac@unesco.org