

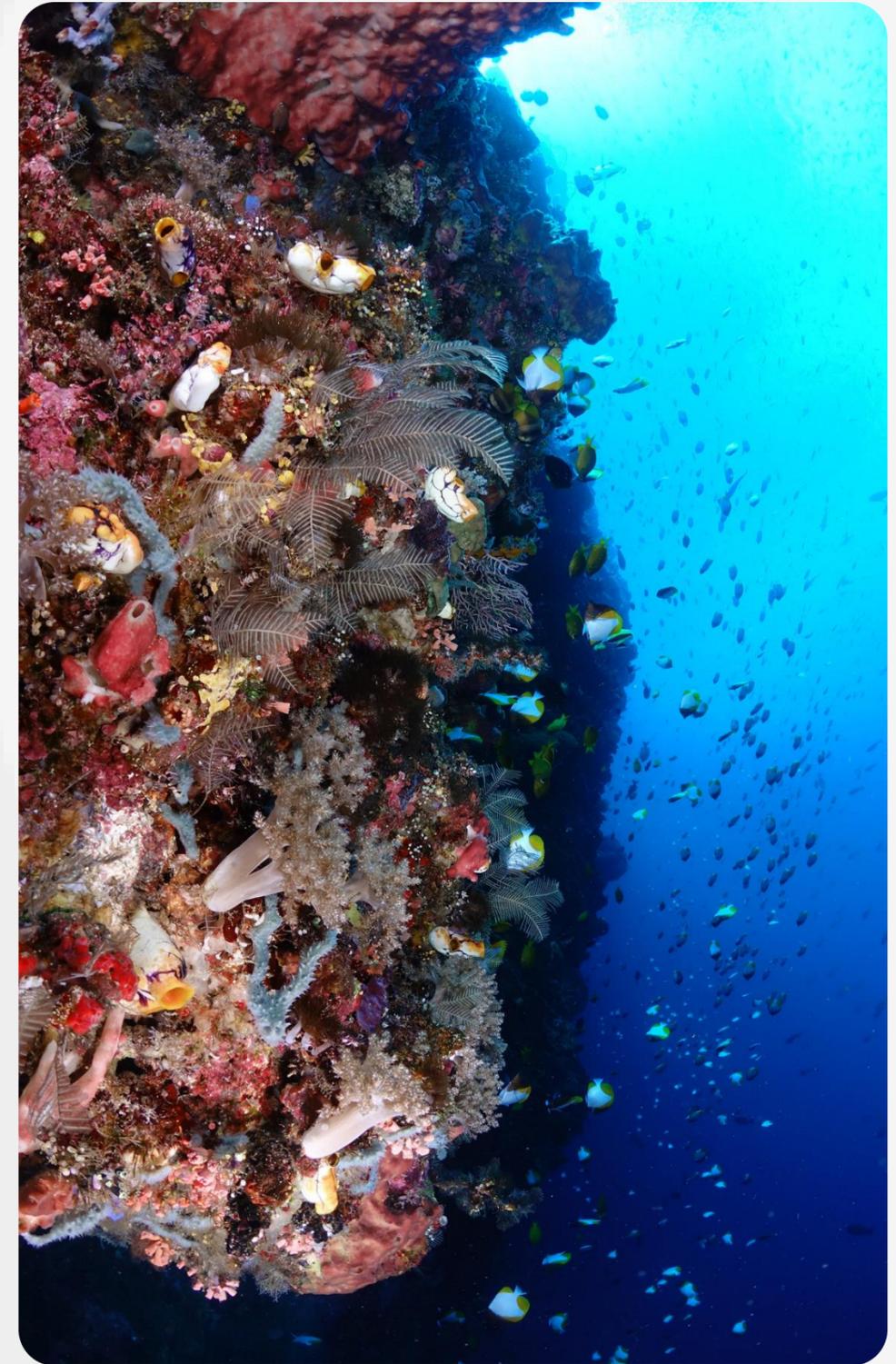
# THE 20<sup>TH</sup> SENIOR OFFICIALS' MEETING

Presented By  
**Mr. Lawrence Kissol Jr.**

Presented To:  
**The CTI-CFF 20th Senior Officials' Meeting**  
Bali, Indonesia | 10 -11 December 2025



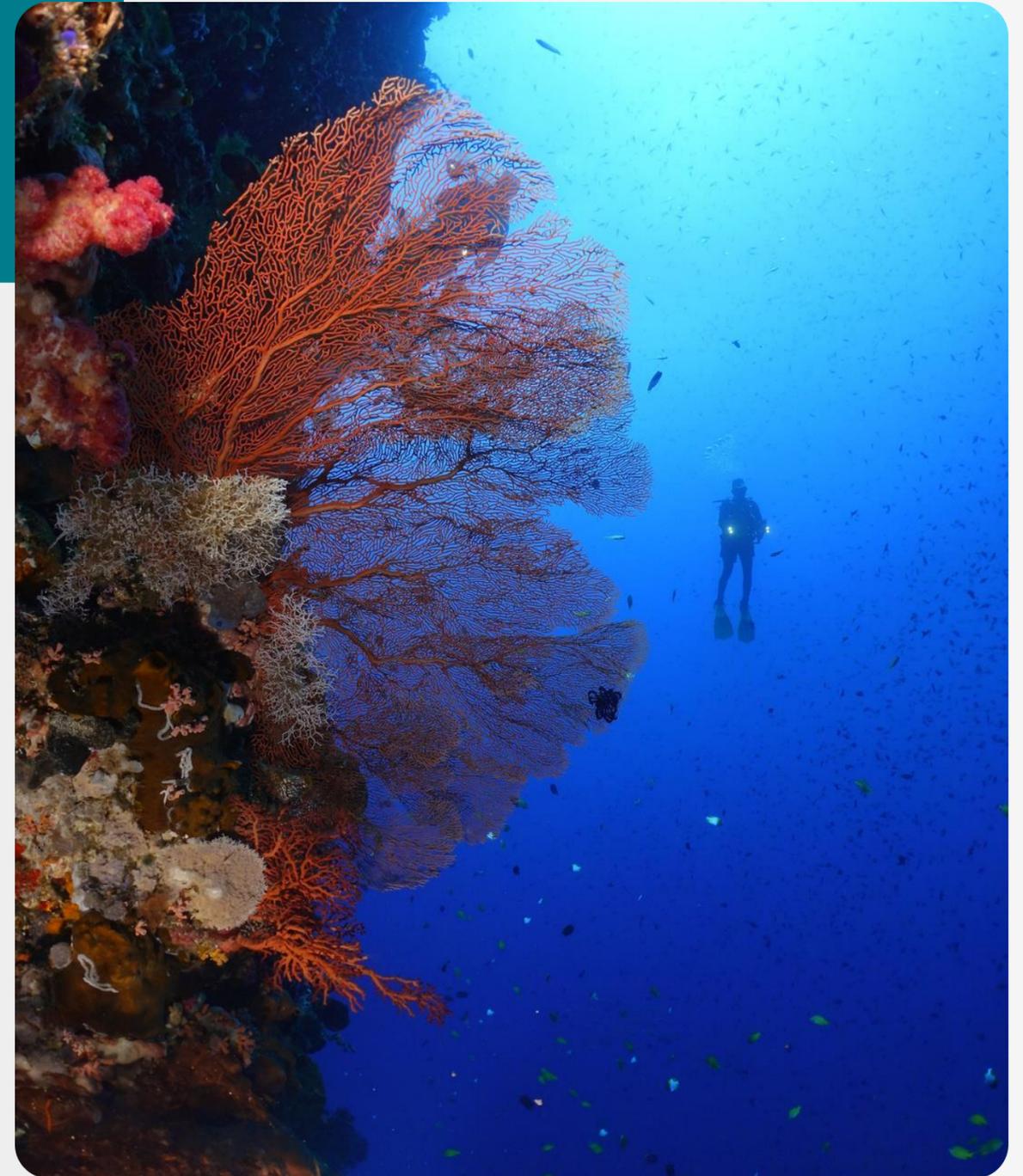
**CORAL TRIANGLE  
INITIATIVE**  
ON CORAL REEFS, FISHERIES  
AND FOOD SECURITY



[www.coraltriangleinitiative.org](http://www.coraltriangleinitiative.org)

# OUTLINE

01. Country Focal Points
02. Country Profile
03. Technical Working Group Progress /  
Accomplishments Towards NPOA / National Roadmap
04. Monitoring and Evaluation Working Group
05. National Update on Financial Progress
06. Potential Regional Program and Support Required
07. Coral Triangle Day Celebration
08. Communication and Publications
09. Story From The Field



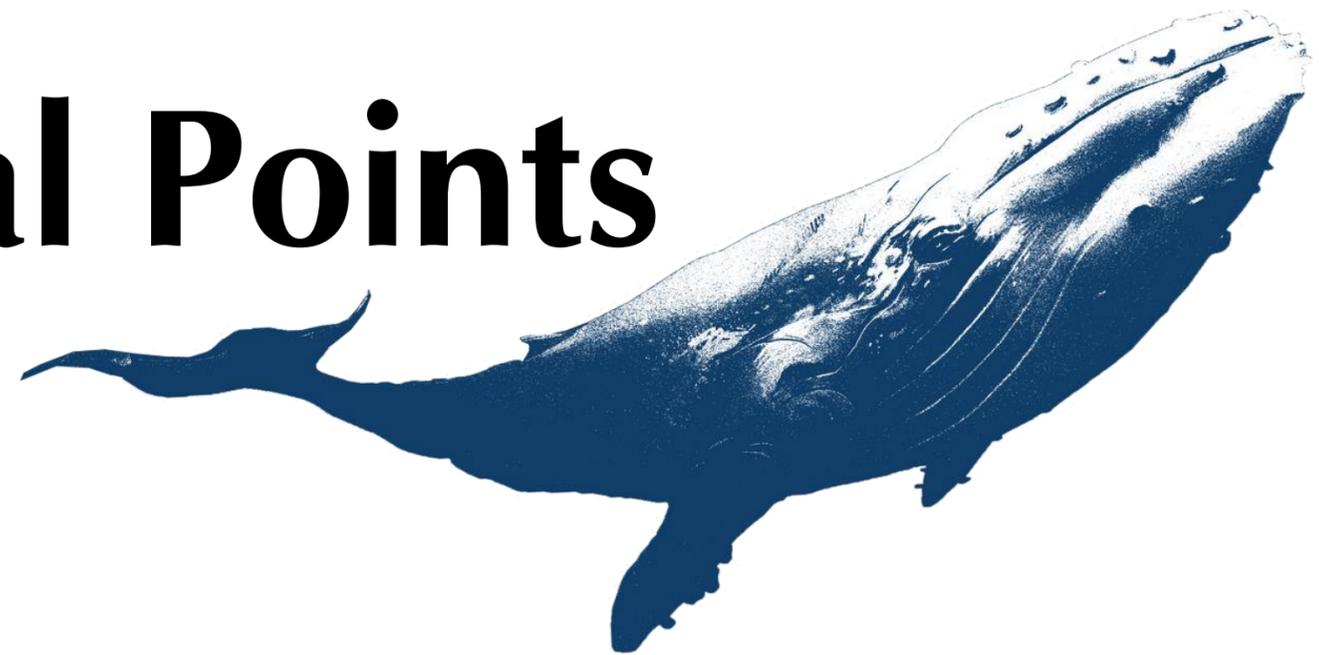
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10 - 11 December 2025

The CTI-CFF 20<sup>th</sup> Senior Officials' Meeting



# 01. Country Focal Points



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WORKING GROUP	FOCAL POINT	AGENCY
National Coordination Committee (NCC)	Dr. Pubadi A/L Govindasamy, Undersecretary, Environmental Management Division, Ministry of Natural Resources and Environmental Sustainability	Ministry of Natural Resources and Environmental Sustainability
Seascapes TWG	Datin Dr. Shuhadah Mustapha, Director, Department of Fisheries Sabah  Alternate: Mr. Lawrence Kissol Jr., Deputy Director (Operation), Department of Fisheries Sabah Mr. Irman Isnain, Senior Assistant Director, Department of Fisheries Sabah	Department of Fisheries Sabah
Ecosystems Approach to Fisheries Management (EAFM) TWG	Datin Dr. Shuhadah Mustapha, Director, Department of Fisheries Sabah  Alternate: Mr. Lawrence Kissol Jr., Deputy Director (Operation), Department of Fisheries Sabah Mr. Ernest Jinaut, Senior Assistant Director, Department of Fisheries Sabah	Department of Fisheries Sabah



WORKING GROUP	FOCAL POINT	AGENCY
Marine Protected Areas (MPA) TWG	<p>Datuk Dr. Maklarin Lakim, Director, Sabah Parks</p> <p>Alternate: Ms. Rimi Repin, Principal Assistant Director of Research and Education Division, Sabah Parks</p> <p>Mr. Adam Malik bin Masidi, Marine Research Officer, Sabah Parks</p>	Sabah Parks
Climate Change Adaptation (CCA) TWG	<p>Dr. Pubadi A/L Govindasamy, Undersecretary, Environmental Management Division, Ministry of Natural Resources and Environmental Sustainability</p> <p>Alternate: Mr. Ahmad Rizal bin Khalit, Deputy Undersecretary, Environmental Management Division, Ministry of Natural Resources and Environmental Sustainability</p> <p>Dr Ejria Saleh, Borneo Marine Research Institute, Universiti Malaysia Sabah</p>	<p>Ministry of Natural Resources and Environmental Sustainability</p> <p>and</p> <p>Borneo Marine Research Institute, Universiti Malaysia Sabah</p>



WORKING GROUP	FOCAL POINT	AGENCY
Threatened Species (TS) TWG	Dato' Haji Adnan bin Hussain, Director General, Department of Fisheries Malaysia  Alternate: Mr. Abdullah bin Jaafar, Senior Director of Fisheries Conservation and Protection Division, Department of Fisheries Malaysia	Department Of Fisheries Malaysia
Financial Resources Working Group (FRWG)	Datuk Nor Yahati binti Awang, Deputy Secretary General (Environmental Sustainability) Ministry of Natural Resources and Environmental Sustainability	Ministry of Natural Resources and Environmental Sustainability
Monitoring And Evaluation Working Group (MEWG)	Datuk Nor Yahati binti Awang, Deputy Secretary General (Environmental Sustainability) Ministry of Natural Resources and Environmental Sustainability	Ministry of Natural Resources and Environmental Sustainability
Internal Resource Committee (IRC)	Dr. Pubadi A/L Govindasamy, Undersecretary, Environmental Management Division, Ministry of Natural Resources and Environmental Sustainability	Ministry of Natural Resources and Environmental Sustainability



WORKING GROUP	FOCAL POINT	AGENCY
Women Leaders' Forum (WLF)	Dr. Aazani Mujahid, Senior Lecturer, Universiti Malaysia Sarawak	Universiti Malaysia Sarawak
CT Atlas	Datuk Dr. Maklarin Lakim, Director, Sabah Parks  Alternate: Ms. Rimi Repin, Principal Assistant Director of Research and Education Division, Sabah Parks  Mr. Adam Malik bin Masidi, Marine Research Officer, Sabah Parks	Sabah Parks
CTMPAS Nomination Committee	Ms. Mary Isidore Malangking Deputy Permanent Secretary I Ministry of Tourism, Culture and Environment Sabah	Ministry of Tourism, Culture and Environment Sabah



# 02. Country Profile



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# Malaysia's Position in the Coral Triangle

01

## Strategic Location in Coral Triangle

Malaysia lies at the western boundary of the Coral Triangle, a global hotspot for marine biodiversity and ecological balance.

02

## Rich Coral Reef Diversity

Malaysia has 1,595.21 km<sup>2</sup> of coral reefs with over 537 species of reef-building corals supporting diverse marine habitats.

03

## Marine Species and Ecosystems

Coastal ecosystems support around 1,600 marine fish species, emphasizing conservation importance.

04

## Ecological and Economic Importance

These ecosystems sustain ecological health, fisheries productivity, and tourism, making conservation a national priority in Malaysia.



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# Demographics and Economic Growth

01

## Population and Gender Ratio

Malaysia's population is 34.3 million with 111 males per 100 females as of the third quarter of 2025, highlighting demographic trends.

02

## Coastal Population Significance

Over 30% of Malaysians live in coastal zones, showing strong ties to maritime geography and resources.

03

## Robust Economic Growth

Malaysia achieved 5.2% GDP growth in the third quarter of 2025, reflecting economic resilience amid global uncertainties.

04

## National Economic Strategy

The strategy focuses on resilience, inclusivity, and structural reform for balanced socio-economic advancement.



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# Key Agencies and Funding Mechanisms

01

## Key Government Agencies

DOF, DOFS, and Sabah Parks lead marine conservation and manage fisheries and protected areas in Malaysia.

02

## Collaborative Conservation Efforts

Agencies collaborate with NGOs, universities, and coastal communities to implement marine conservation programs.

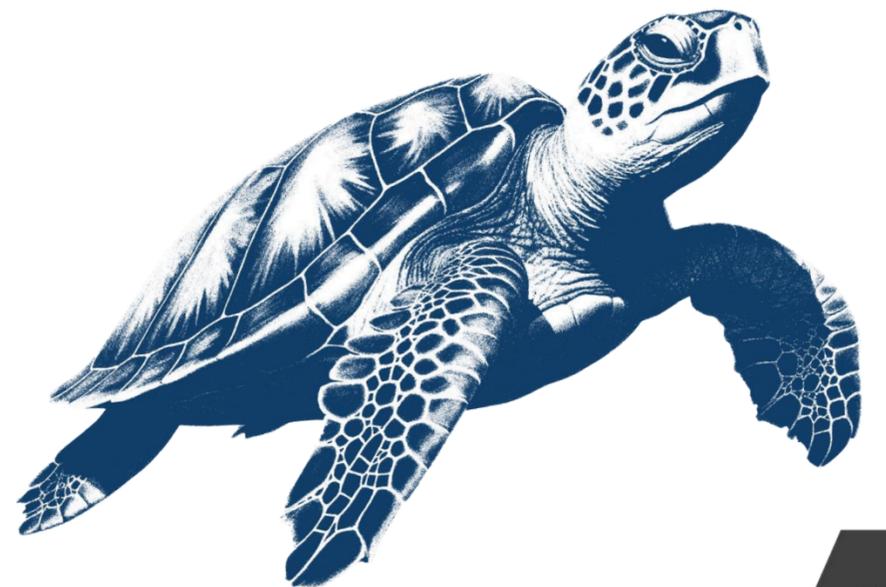
03

## Sustainable Funding Mechanisms

The National Conservation Trust Fund supports long-term financing for scaling conservation and community projects.



# 03. Technical Working Group Progress / Accomplishments Towards NPOA / National Roadmap



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# SEASCAPES

## Activities 2025:

ACTIVITY DETAILS	IMPLEMENTATION PERIOD	ACTION ITEM (NPOA/RPOA 2.0)
SEACONNECT Virtual PPG Inception Meeting (online)	31 July 2025	NPOA Target 2 ; Action 2
SEACONNECT PIF in-country Consultation (Kota Kinabalu)	20 - 21 August 2025	RPOA 2.0
SOMACORE Inception Workshop (Kota Kinabalu)	14 January 2025	Outcome Indicator A1.1.1
SOMACORE Sustainable Management Workshop for Shark and Ray Species Sabah Series 1/2025 (Kudat)	26 February 2025	Outcome Indicator A1.1.1.b Outcome Indicator A1.3.2 Outcome Indicator A2.1.1 Outcome Indicator A2.2.1.c
SOMACORE Sustainable Management Workshop for Shark and Ray Species Sabah Series 2/2025 (Kota Kinabalu)	16 July 2025	
SOMACORE Study Visit to James Fish Farm & Business Model Canvas Session (Kudat)	14 -15 May 2025	



# SOMACORE Sustainable Management Workshop for Shark and Ray Species

- Kudat, 26 February 2025
- Kota Kinabalu, 16 July 2025



# SOMACORE Study Visit to James Fish Farm & Business Model Canvas Session



# Activities 2026:

ACTIVITY NAME	ACTIVITY SCOPE	IMPLEMENTATION PERIOD	ESTIMATED EXPENDITURE	ACTION ITEM (NPOA/ RPOA 2.0)
Sulu-Sulawesi Seascape Approach to Coral Reef Sustainable Livelihoods (SEACONNECT) Project	Capacity building in MPA management and key coral reef areas (keystone reefs)	January – Dec 2026	Subject to available funding	<b>NPOA</b> Target 2 ; Action 2
SOMACORE sustainable Management Workshops for Shark and Ray Species Sabah Series 1 & 2/2026	<ol style="list-style-type: none"> <li>Public awareness programs/dialogues with stakeholder participation on marine conservation based on EAFM</li> <li>Capacity building and support for eco-tourism development as alternative livelihoods among coastal communities</li> <li>Tackling IUU – Fish bombing</li> </ol>			<b>RPOA 2.0</b> Outcome Indicator A1.1.1 Outcome Indicator A1.1.1.b Outcome Indicator A1.3.2 Outcome Indicator A2.1.1 Outcome Indicator A2.2.1.c
SOMACORE Study Visit & Business Model Canvas Session (Lahad Datu community)				
SOMACORE Public Awareness Program on Fish Bombing				

# ECOSYSTEM APPROACH TO FISHERIES MANAGEMENT (EAFM)

## Activities 2025:

ACTIVITY DETAILS	IMPLEMENTATION PERIOD	ACTION ITEM (NPOA/RPOA 2.0)
EAFM Workshop: Legal and Enforcement Perspectives with Tawau District Community	25 March 2025	<b>NPOA</b> Target 1; Action 18
Marine Conservation Awareness Program (EAFM) for School Students (S.K. Bambang, Beaufort)	07 April 2025	<b>NPOA</b> Target 1; Action 3  <b>RPOA 2.0</b> Objective A, Target A3, Outcome Indicator A3.1
Marine Conservation Awareness Program (EAFM) for Sipitang District Community	29 June 2025	<b>NPOA</b> Target 1; Action 3  <b>RPOA 2.0</b> Objective A, Target A3, Outcome Indicator A3.1



## Activities 2025:

ACTIVITY DETAILS	IMPLEMENTATION PERIOD	ACTION ITEM (NPOA/RPOA 2.0)
<p>Fishery Improvement Project (FIP) Annual Coordination Meeting:</p> <ol style="list-style-type: none"> <li>1) Longtail tuna FIP, Tok Bali Kelantan</li> <li>2) Reef fishes FIP, Tun Mustapha Park, Sabah</li> <li>3) Yellowfin tuna FIP, Semporna, Sabah</li> </ol>	<p>19 February 2025 5 June 2025 19 June 2025</p>	<p><b>NPOA</b> Target 1; Action 18</p>
<p>Small-Scale Fisheries Project (SSFP) community meetings:</p> <ol style="list-style-type: none"> <li>1) Banggi Island, Sabah</li> <li>2) Larapan Island, Sabah</li> <li>3) Rajang-Belawai-Paloh, Sarawak</li> <li>4) Kemaman, Terengganu</li> </ol>	<p>07 April 2025 21 June 2025 23 June 2025 28 April 2025</p>	<p><b>NPOA</b> Target 1; Action 3</p> <p><b>RPOA 2.0</b> Objective A, Target A3, Outcome Indicator A3.1</p>



# Activities 2025:

ACTIVITY DETAILS	IMPLEMENTATION PERIOD	ACTION ITEM (NPOA/RPOA 2.0)
<p>41 capacity building activities conducted on:</p> <ol style="list-style-type: none"> <li>1) Awareness on sustainable fisheries</li> <li>2) Awareness on Endangered, Threatened, Protected species</li> <li>3) Citizen science</li> <li>4) Fishing community financial literacy</li> <li>5) Supply chain management</li> </ol>	<p>Throughout 2025</p>	<p>NPOA Target 1; Action 3</p> <p>RPOA 2.0 Objective A, Target A3, Outcome Indicator A3.1</p>
<p>Fisheries data collection on:</p> <ol style="list-style-type: none"> <li>1) Longtail tuna through citizen science, Tok Bali Kelantan</li> <li>2) Reef fishes using citizen science and Underwater Visual Census, Tun Mustapha Park and Semporna Sabah</li> <li>3) Yellowfin tuna through citizen science , Semporna, Sabah</li> <li>4) Demersal fish stock in Tun Mustapha Park using swept area method</li> </ol>		

Learning Exchange to Yellowfin tuna Fishery Improvement Project in Lagonoy Gulf, Philippines

5 - 11 November 2025

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# Activities 2026:

ACTIVITY NAME	ACTIVITY SCOPE	IMPLEMENTATION PERIOD	ACTION ITEM (NPOA/ RPOA 2.0)
Capacity Building for Stakeholders	<ol style="list-style-type: none"> <li>1. 2 sessions Marine Conservation Awareness Program (EAFM) for secondary school students</li> <li>2. 2 sessions Marine Conservation Awareness Program (EAFM) for communities</li> </ol>	January – Dec 2026	<p><b>NPOA</b> Target 1; Action 3</p> <p><b>RPOA 2.0</b> Objective A, Target A3, Outcome Indicator A3.1</p>
Legal and Enforcement Workshop through EAFM Approach	Sharing information on latest enforced laws		<p><b>NPOA</b> Target 1; Action 18</p>
Establishment of Replication Marine Sanctuary Areas (collaboration with coastal fishing communities)	<ol style="list-style-type: none"> <li>1. Deployment of recreational artificial reefs (500kg/unit) to rehabilitate coral reef areas degraded by IUU</li> <li>2. Community dialogues</li> <li>3. Beach clean-up</li> </ol>		<p><b>RPOA 2.0</b> Objective A, Target A3, Outcome Indicator A3.1</p>



# Activities 2026:

ACTIVITY DETAILS	IMPLEMENTATION PERIOD	ACTION ITEM (NPOA/RPOA 2.0)
Fishery Improvement Project (FIP) Annual Coordination Meeting: <ol style="list-style-type: none"> <li>1) Longtail tuna FIP, Tok Bali Kelantan</li> <li>2) Reef fishes FIP, Tun Mustapha Park, Sabah</li> <li>3) Yellowfin tuna FIP, Semporna, Sabah</li> </ol>	2026 until 2029	<b>NPOA</b> Target 1; Action 18
Small-Scale Fisheries Project (SSFP) community meetings: <ol style="list-style-type: none"> <li>1) Banggi Island, Sabah</li> <li>2) Larapan Island, Sabah</li> <li>3) Rajang-Belawai-Paloh, Sarawak</li> <li>4) Kemaman, Terengganu</li> </ol>		<b>NPOA</b> Target 1; Action 3  <b>RPOA 2.0</b> Objective A, Target A3, Outcome Indicator A3.1



# Activities 2026:

ACTIVITY DETAILS	IMPLEMENTATION PERIOD	ACTION ITEM (NPOA/RPOA 2.0)
<p>Capacity building activities will be conducted on:</p> <ol style="list-style-type: none"> <li>1) Awareness on sustainable fisheries</li> <li>2) Awareness on Endangered, Threatened, Protected species</li> <li>3) Citizen science</li> <li>4) Fishing community financial literacy</li> <li>5) Supply chain management</li> </ol>	<p>2026 until 2029</p>	<p>NPOA Target 1; Action 3</p> <p>RPOA 2.0 Objective A, Target A3, Outcome Indicator A3.1</p>
<p>Fisheries data collection on:</p> <ol style="list-style-type: none"> <li>1) Longtail tuna through citizen science, Tok Bali Kelantan</li> <li>2) Reef fishes using citizen science and Underwater Visual Census, Tun Mustapha Park and Semporna Sabah</li> <li>3) Yellowfin tuna through citizen science , Semporna, Sabah</li> <li>4) Demersal fish stock in Tun Mustapha Park using swept area method</li> </ol>		
<p>Learning Exchange to Longtail tuna FIP, Reef fishes FIP and FIP Community of Practice</p>		



# EAFM Workshop: Legal and Enforcement Perspectives with Tawau District Community



# Marine Conservation Awareness Program (EAFM) for School Students (S.K. Bambangan, Beaufort)



# Marine Conservation Awareness Program (EAFM) for Sipitang District Community



# Fishery Improvement Project (FIP) Annual Coordination Meetings in Semporna, Tun Mustapha Park and Tok Bali Kelantan



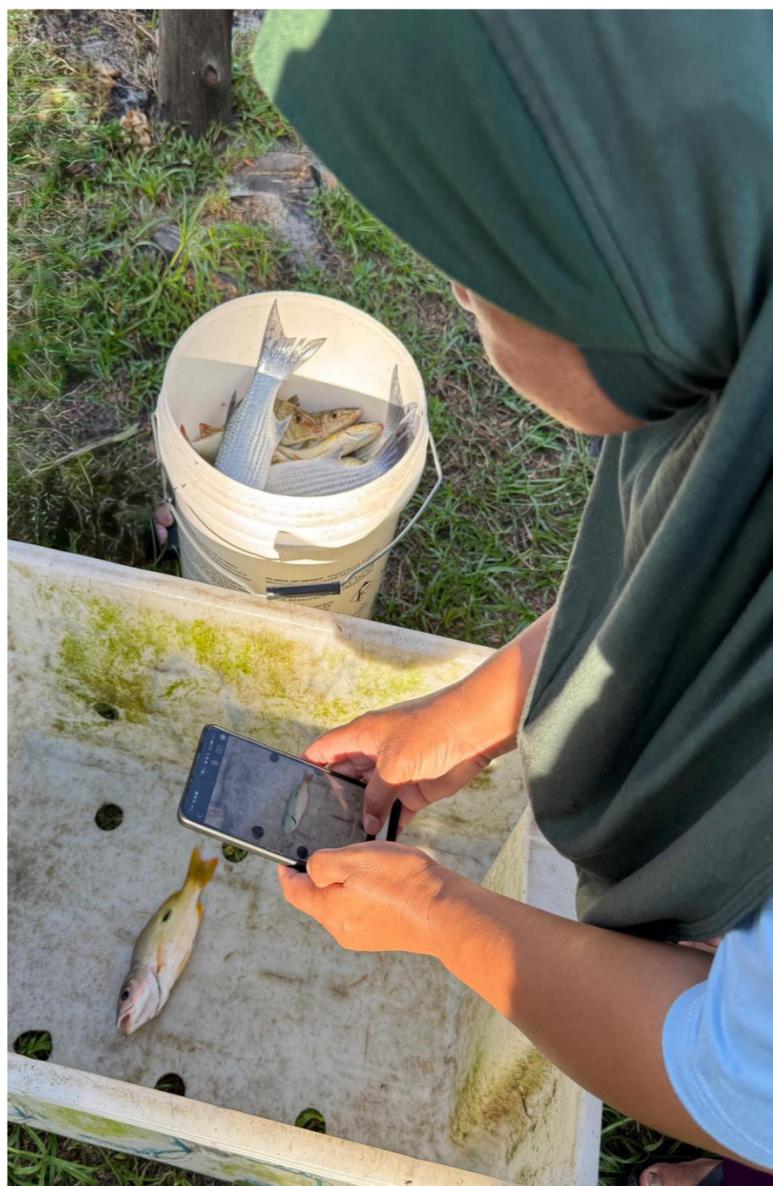
# Small-Scale Fisheries Projects community meetings in 4 project sites



# Series of capacity buildings conducted in 2025 through Fishery Improvement Project and Small-Scale Fisheries Projects in 7 project sites



# Fisheries Data Collection through citizen science, swept area method and Underwater Visual Census in Tun Mustapha Park and Semporna



Learning Exchange  
for Yellowfin tuna  
FIP, Mabul Island  
Semporna with  
Yellowfin tuna FIP  
Lagonoy Gulf,  
Philippines



# MARINE PROTECTED AREAS (MPAs)

## Activities 2025:

ACTIVITY DETAILS	IMPLEMENTATION PERIOD	ACTION ITEM (NPOA/RPOA 2.0)
Darvel Bay Marine Park for gazzettelement	ongoing	<b>NPOA</b> Target A1, Activity 3, 21
Tun Juhar Marine baseline study	19 - 25 <sup>th</sup> May	<b>NPOA</b> Target A1, Activity 29
Extension of Tun Sakaran Marine Park off Ligitan Islands -	Ongoing	<b>NPOA</b> NPOA Target A1, Activity 30
Tun Mustapha Park – for IUCN Green List assessment process	29 June 2025	<b>NPOA</b> NPOA Target A1, Activity 11
The development of OECM and LMMs National Framework		<b>NPOA</b> Target A1, Activity 1, 13



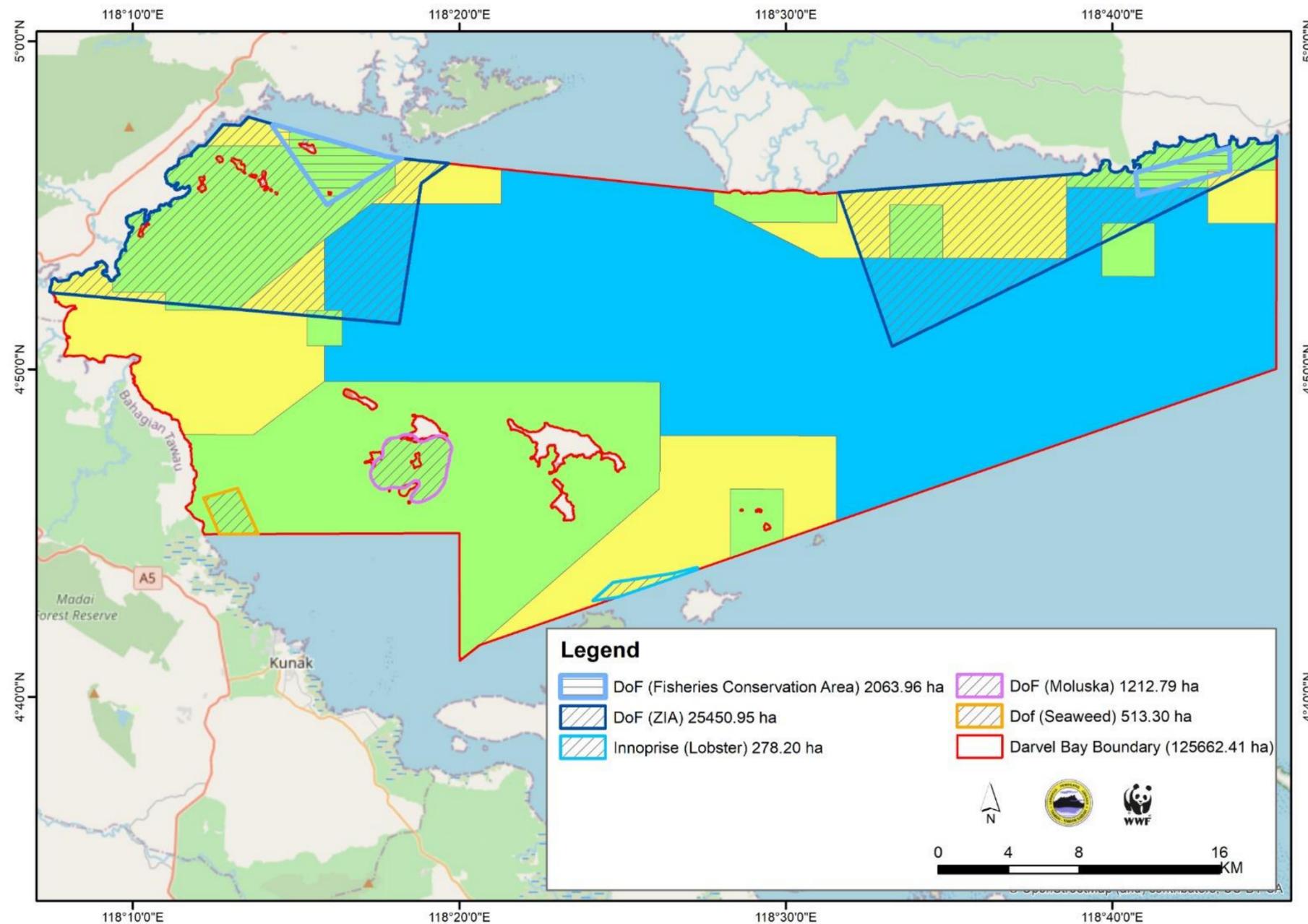
# MARINE PROTECTED AREAS (MPAs)

## Activities 2025:

ACTIVITY DETAILS	IMPLEMENTATION PERIOD	ACTION ITEM (NPOA/RPOA 2.0)
Training with community members in Tun Mustapha Park	24-27 Nov 2025	<b>NPOA</b> Target A1, Activity 33
Reef Monitoring Efforts with Reef Check Malaysia	November 2025	<b>NPOA</b> Target A2, Activity 5; RPOA Outcome A2



# MARINE PROTECTED AREAS (MPA)



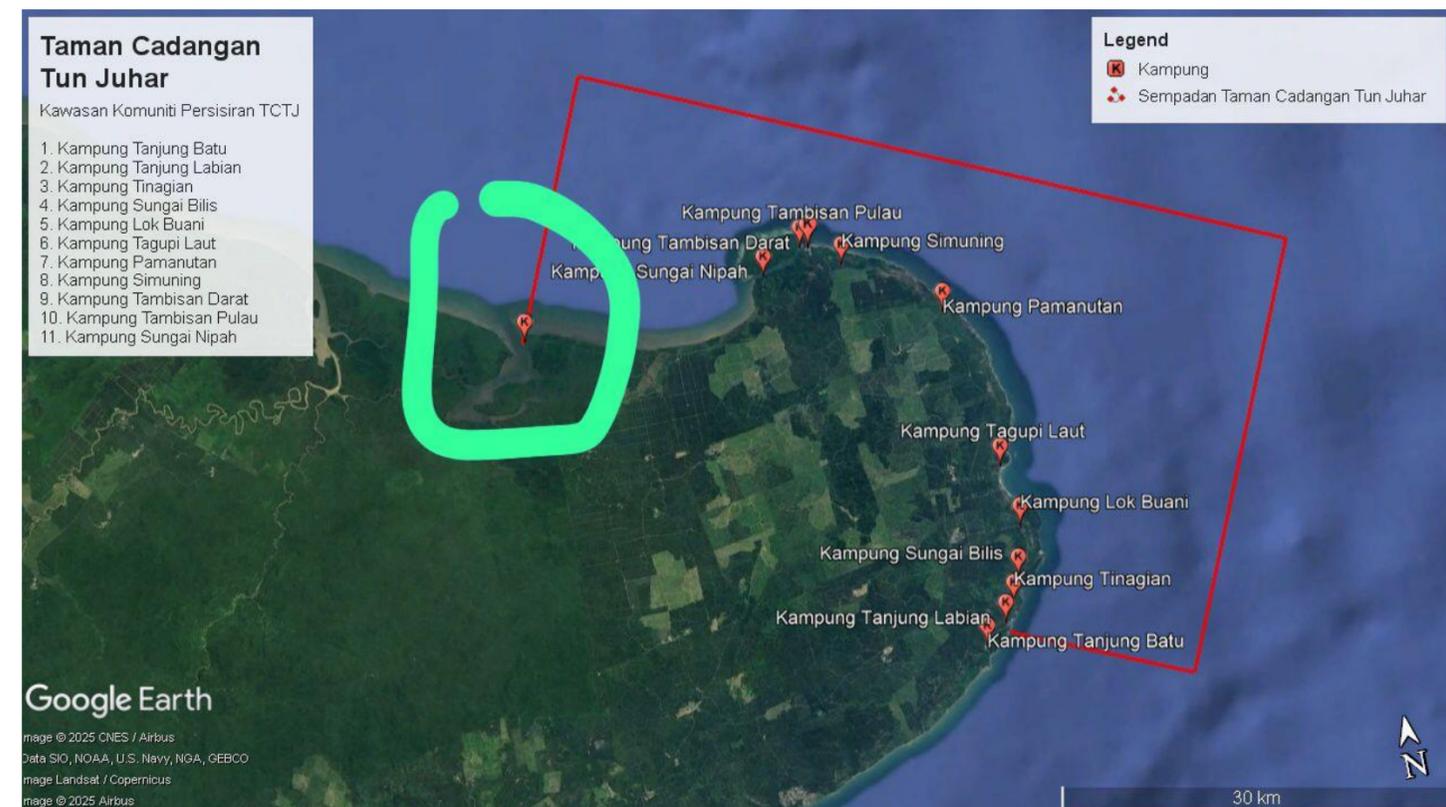
## Gazettement of Darvel Bay Marine Park

- NPOA Target A1, Activity 3, 21
- 126,475.16 ha
- Completed:
  - Baseline studies
  - Public Hearing
  - Draft Mangement Plan
  - Stakeholder engagement report
- Awaiting final gazettement approval by Sabah State Assembly Speaker



# Baseline Study Of Proposed Tun Juhar Marine Park

- NPOA Target A1, Activity 29
- Baseline study conducted by Sabah Parks staff 19 - 25<sup>th</sup> May
- Identified important natural resources:
  - Coral reef
  - Seagrass fields
  - Fisheries
  - Potential tourism sites
- Findings to be published 2026
- Gazettement approved by State Assembly, planned 2027 gazettelement



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10 - 11 December 2025

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# Green Listing Of Tun Mustapha Park

- NPOA Target A1, Activity 11
- Submitted for EAGL review through COMPASS in May 2025
- Awaiting confirmation by IUCN for assessment

<b>Site No.</b>	S-0213
<b>Name of Site (in English)</b>	Tun Mustapha Park
<b>Name of Site (in common regional lang.)</b>	Taman Tun Mustapha
<b>Type of Application</b>	Single Site Application
<b>WDPA ID's</b>	555705603
<b>Number of Sites</b>	1



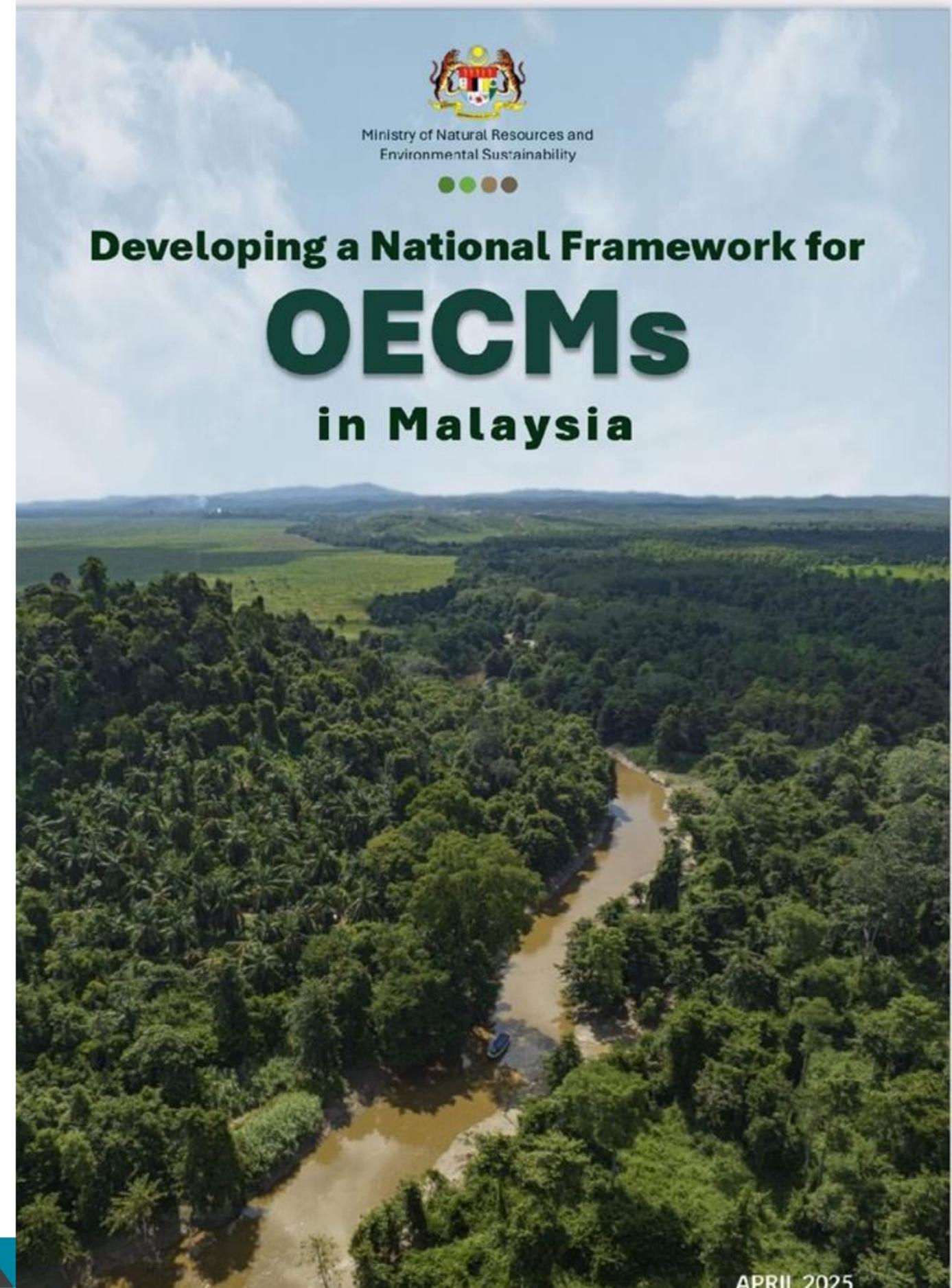
# Mini Expedition Off Ligitan Waters

- NPOA Target A1, Activity 30
- Sabah Parks & WCS Malaysia explored areas off Ligitan Island, Semporna to survey potential dive sites & document marine life
- This area is planned to be gazetted as an extension of the Tun Sakaran Marine Park in the future



# OECEMs and LMMAs

- Target A1, Activity 1, 13
- Malaysia currently under way of developing legal mechanisms for other managed areas
- Sabah under the Sabah Biodiversity Council is developing framework, slated to start work in 2026 for consultation with State agencies
- Nationwide, refer to the NRES Document on OECEM development



# Training with Community Members in Tun Mustapha Park

- NPOA Target A1, Activity 33
- MERMAID (Marine Ecological Research Management Aid), Fish and Coral ID was undertaken in TMP with villagers of Tajau Laut Village 24-27 Nov



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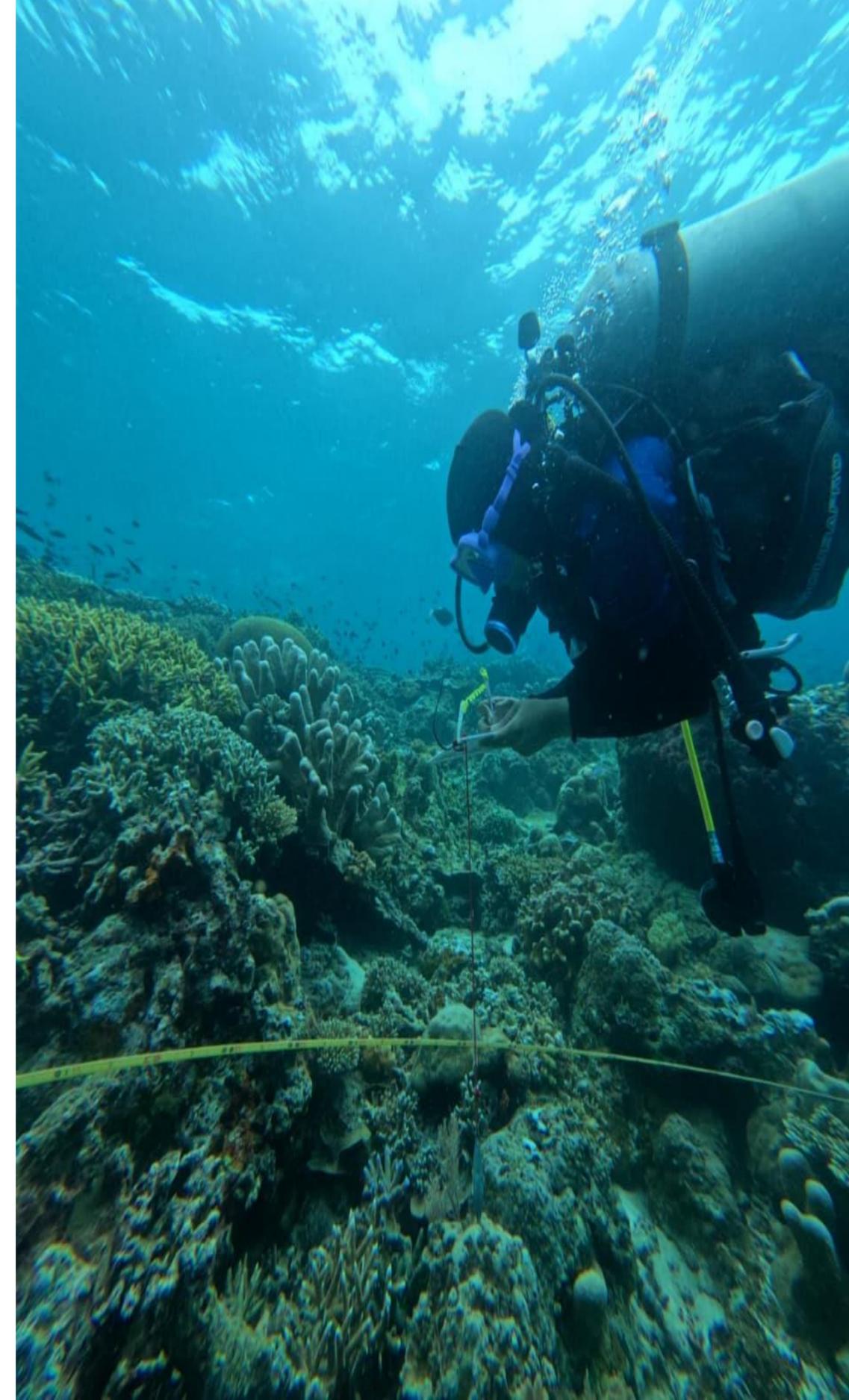
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# Reef Monitoring Efforts with Reef Check Malaysia

- NPOA Target A2, Activity 5; RPOA Outcome A2
- Took place in Tunku Abdul Rahman Park, Sipadan Island in November
- Results to be published in Reef Check Malaysia Report 2025



# Way Forward

1. Establishment of 2 further MPAs in Sabah\*
  - a) Ligitan Island, Semporna
  - b) Tun Juhar, Lahad Datu
2. Establish Malaysian MPA Working Group
3. Create Malaysian MPA Manager Network



# CLIMATE CHANGE ADAPTATION (CCA)

## Activities 2025:

- Seagrass transplanting organized by Jetama Sdn Bhd in collaboration with the Semporna Tourism Association, Dive Master Association, and other stakeholders on 27 Feb to 1 Mac 2025.
- Mangrove planting for climate change mitigation organised by Forestry Department Sabah and Tokio Marine Insurans (Malaysia) Berhad (TMIM) planted approximately 605 mangrove seedlings and propagules in Marudu Bay Forest Reserve, Kota Marudu, Sabah on 8 July 2025.
- Seagrass planting; Training for trainers on 25 June 2025.



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10 - 11 December 2025

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# Activities 2025:

- Sea Level Rise 2025 Workshop Shows Malaysia's commitment to tackling climate change on 11-12 June 2025.
- 3rd Asean Blue Economy Forum 2025 Exhibition, Kota Kinabalu, Sabah on 29 September 2025
- Malaysia Sea Level Rise Monitoring Network (MySLR) monitoring physical oceanographic characteristics in strategic nearshore locations across all 5 seas in Malaysia – Implemented by NAHRIM.
- Workshop on Evaluate the Effectiveness of CCA Measures in Mabul Island: 15 – 17 April 2025 organized by WWF Malaysia.
- Webinar Seagrass Ecosystems: Biodiversity and Conservation in Sabah's Coastal Waters 17 June 2025



# Ongoing Project and Online Data

- Malaysia National Adaptation Plan 2026
- Seagrass mapping and community based program in Sabah and FT of Labuan – Funded by Yayasan Petronas.
- Climate Vulnerability Assessment and Adaptation Plan Frameworks in Sabah-Funded by Institute For Development Studies.
- Ground water assessment at community water wells in Batu Sireh Village by WWF-Malaysia on 17 June 2025
- Global Warming and Climate Change Awareness at Sekolah Menengah Kebangsaan Telipok, Sabah, Malaysia on 14 May 2025.
- Beach Clean -up Campaign 2025 at Likas Bay, Kota Kinabalu, Sabah on 17 June 2025.



# HYDRODYNAMIC MODELLING FOR TANJUNG KEPAH MANGROVE ACTION PROJECT (TKMAP): COMMUNITY – BASED MANGROVE ECOSYSTEM CONSERVATION AND RESTORATION PROGRAM

- The primary purpose of this study is to identify and analyze the hydrodynamic characteristic of the study area for a nature-based solution mitigation in promoting the growth and survival of mangroves.
- Pilot integration of Nature-based Solutions (NbS) with coastal infrastructure projects in Perak and Selangor.
- Collaboration with local partners and local community (e.g., Wetlands International, JPS, UTP, UM, Yayasan Hasanah & Yayasan PETRONAS) to enhance capacity in coastal and marine ecosystem management.
- Malaysia is aligning marine and coastal policies with SDG 14, the Post-2020 Global Biodiversity Framework, and AIR 2040 (Water Sector Transformation Plan).



Aerial view of Tanjung Kepah, Perak during low tide.



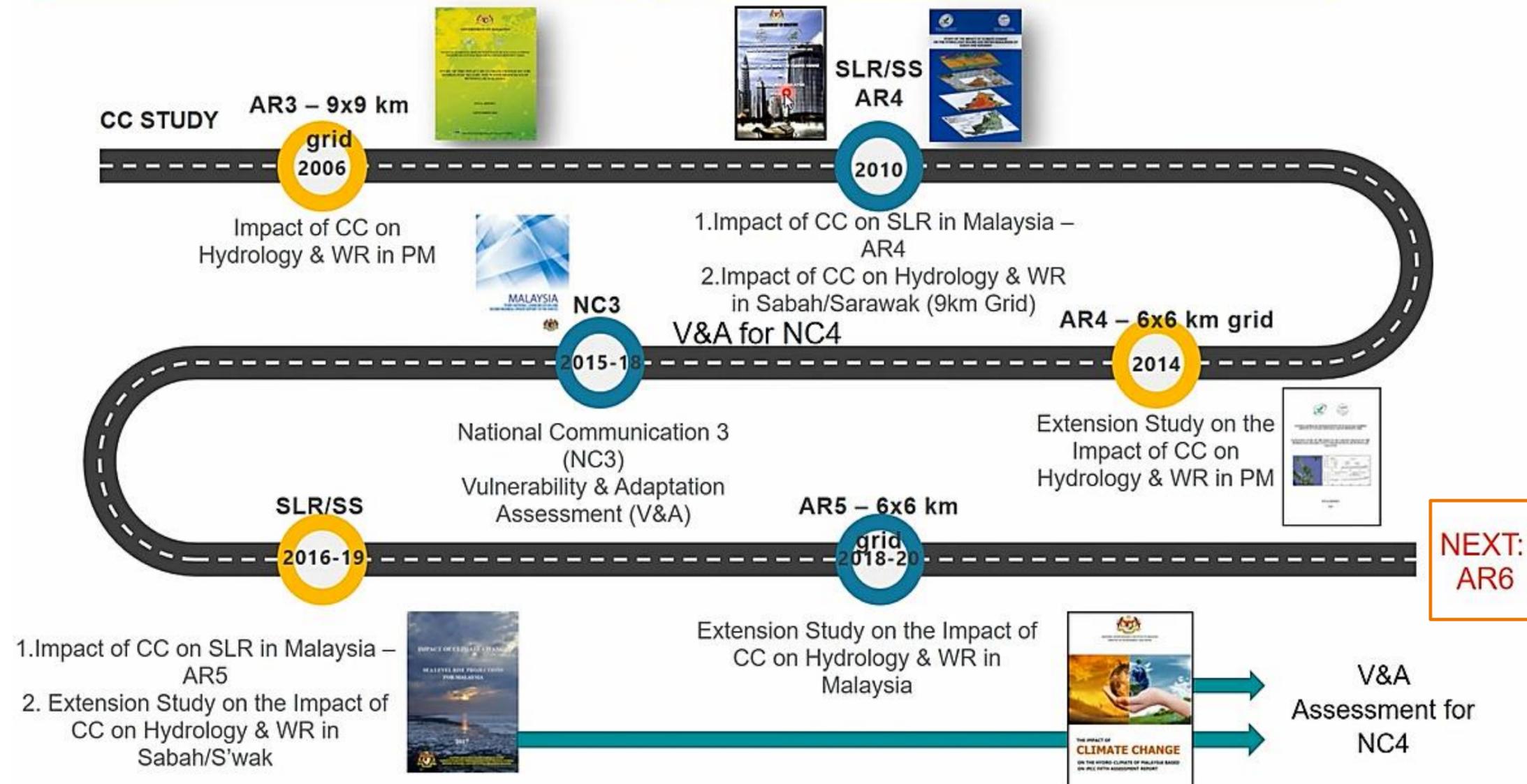
Aerial view of Tanjung Kepah, Perak during high tide.



Community involvement in mangrove replanting and monitoring.



# CHRONOLOGY: CLIMATE CHANGE STUDY BY NAHRIM



**2010: AR4**

**2017: AR5**

**2023: AR6**

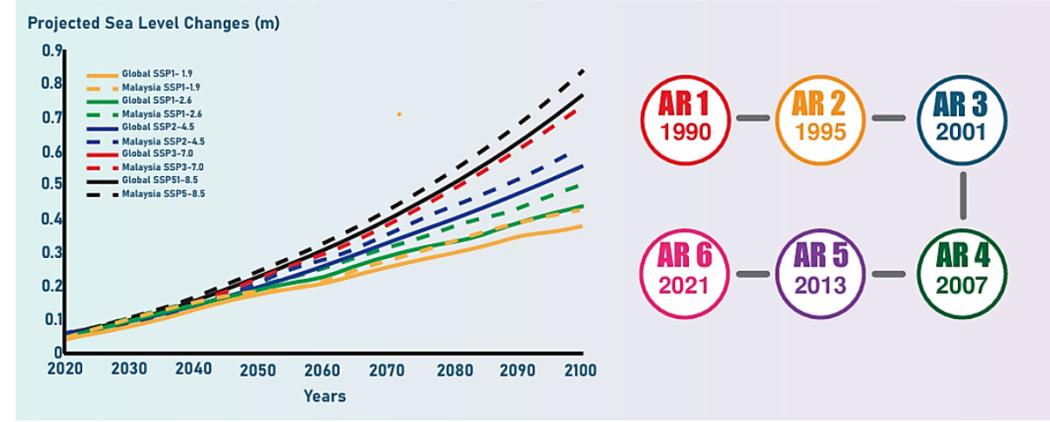
**Malaysian's SLR Updated**

## GUIDELINE ON SEA LEVEL RISE (SLR) ADAPTION FOR COASTAL DEVELOPMENT (NAHRIM, 2023)

- Accounted designing coastal structure/ development & focus designing that withstand the impacts and associated coastal hazards

# UPDATED MALAYSIAN'S SEA LEVEL RISE (SLR) PROJECTION

- Based on IPCC SLR update



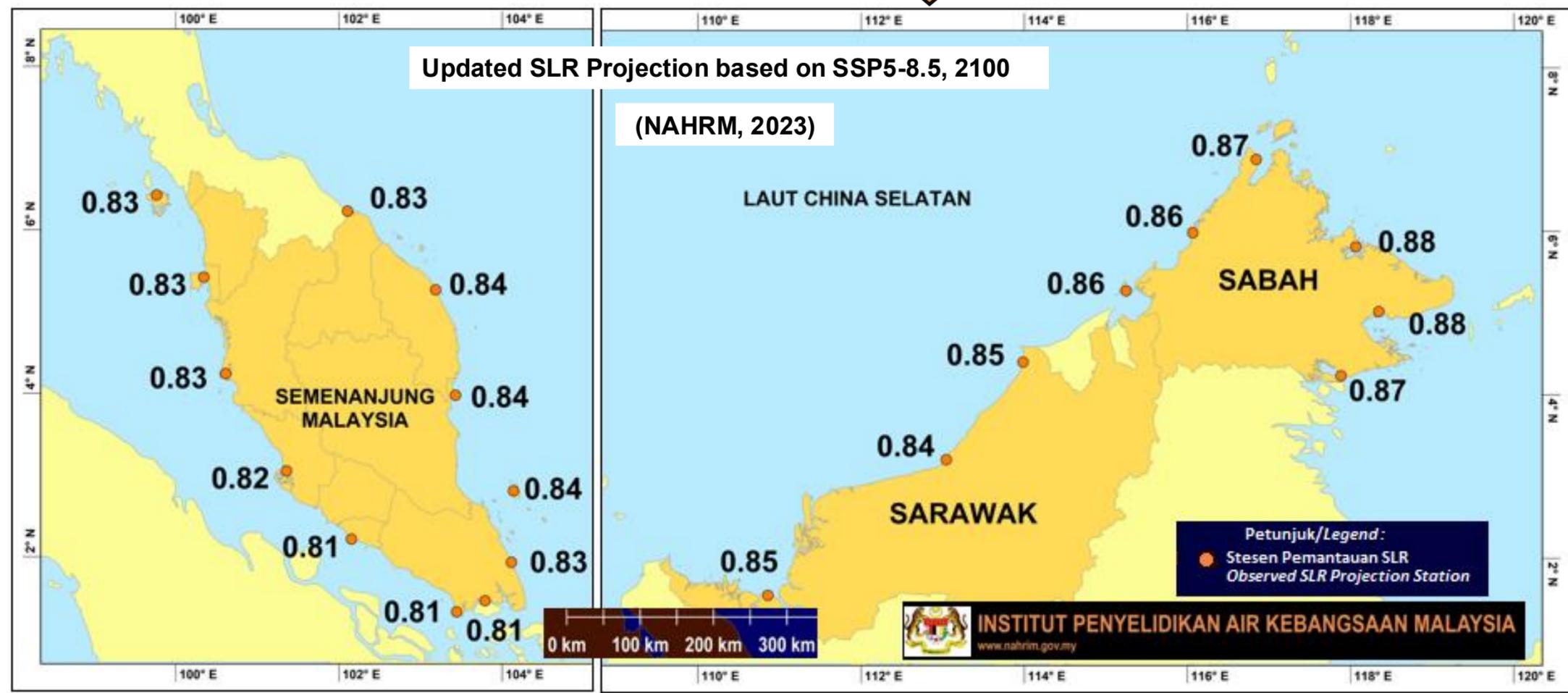
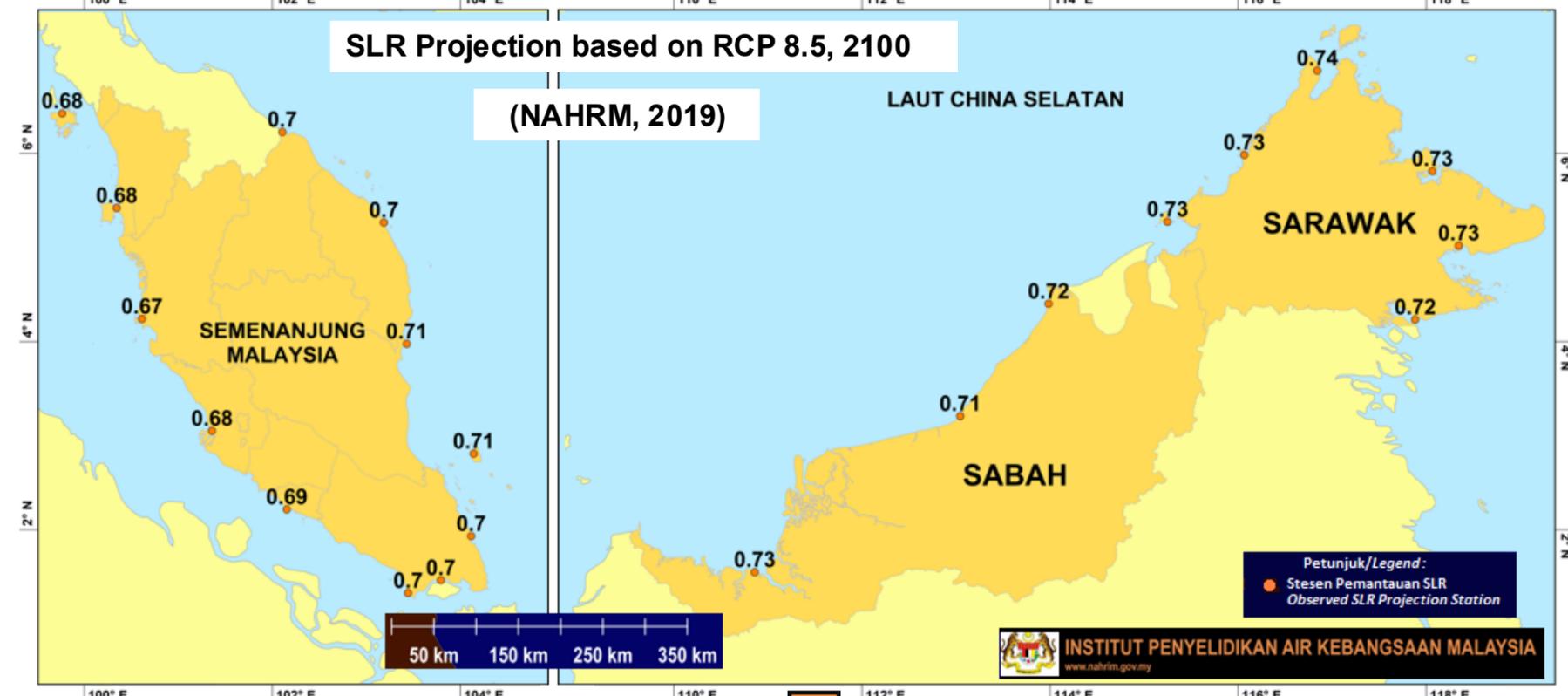
RCP 8.5 → SSP5-8.5

- Malaysia has been updated SLR projection on every 10yrs interval (2020 to 2100)
- Integrate data from RCP8.5 to updated Inundation Map on SSP5-8.5 year 2050 & 2100
- Updated SLR Projection based on AR6 (SSP5-8.5), Global vs Malaysian

**Global AR6**

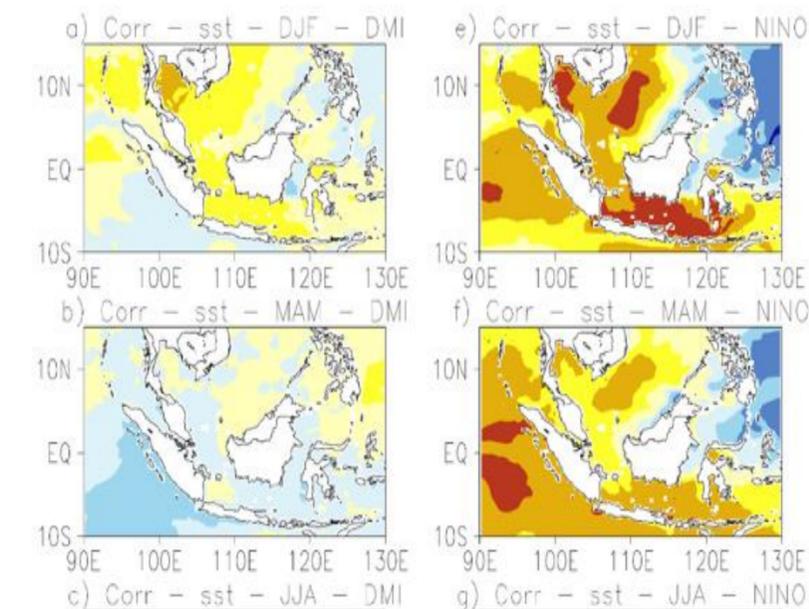
Projection= 0.77m (0.63-1.01m)  
Rate= 12.1 (8.6-17.6) mm/yr

	Peninsular Malaysia	Sabah & Sarawak
Projection:	0.81 – 0.84m	0.84 – 0.88m
Rate:	11.0 – 13.5 mm/yr	12.2 – 13.9 mm/yr

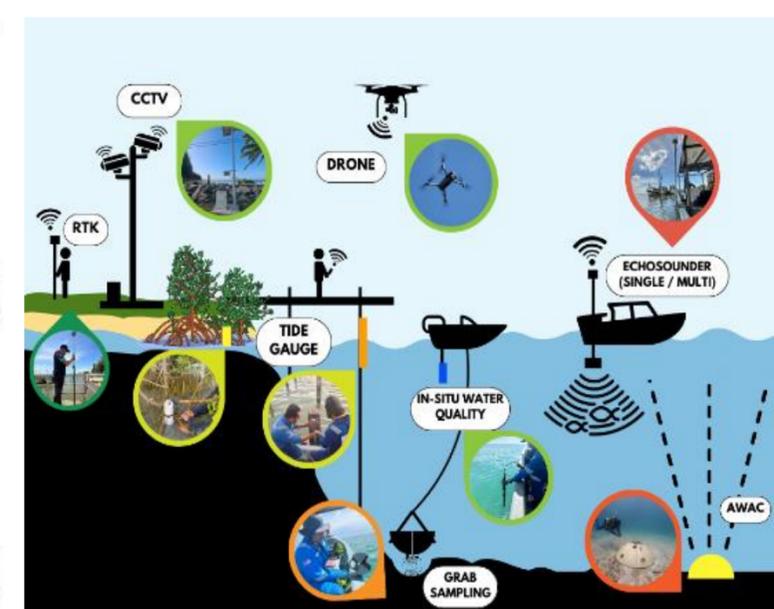


# MALAYSIA SEA LEVEL RISE MONITORING NETWORK ESTABLISHMENT IN RMK-12 (2021-2025)

- NAHRIM initiated this effort in 2021
- Circumscribing 5 seas within Malaysia territorial waters:
  - i) Andaman Sea
  - ii) Malacca Straits
  - iii) South China Sea
  - iv) Sulu Sea
  - v) Celebes Sea
- Primary Physical Oceanographic for Climate Change receptors long – term monitoring datasets encompasses:
  - Wave
  - Current
  - Water Level
  - pH
  - Salinity
  - Sea Surface Temperature (SST)
  - Total Suspended Solid (TSS)
  - Dissolved Oxygen (DO)



• El-nino indeks – Sea Surface Temperature



• Malaysia Coastal Intelligence monitoring infrastructure

#### 4 Integration of Smart Technologies in Coastal Ecosystem Monitoring for Disaster Risk Reduction

- 1 Wireless Data Acquisition System (Real – Time)

#### 1 Research on the Impact and Response to Sea Level Rise on Public Safety and National Assets (Coasts and Seas)

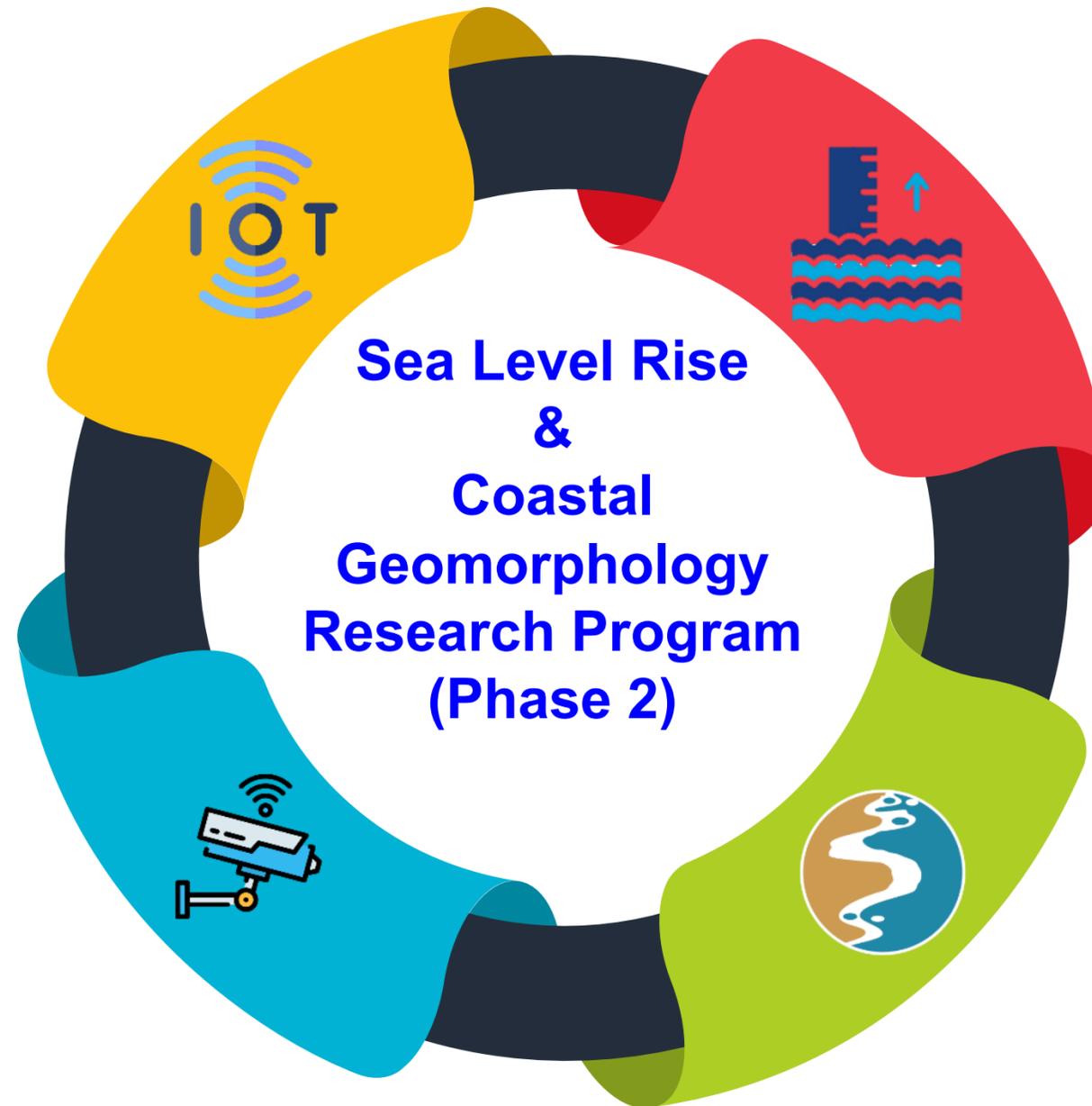
- Sea Level Rise Projection
- Coastal Flood Map
- Adaptation Guidelines / Manual
- Laboratory Impact Testing
- Numerical Modelling of Sea Level Rise

#### 3 Advancing Sea Level Rise Monitoring Stations Across Malaysian Coastal Regions

- Establishment of 8 Coastal Morphological monitoring Station equipped with CCTV, Tidal Fluctuation and Nearshore Wind with AI integration
- 2 additional Wave and Current dedicated monitoring station

#### 2 Study on the Geomorphological Dynamics of Coastal Zones

- Development of a Numerical Model for Sediment Transport in Coastal Environments
- Spatiotemporal Map of Morphological Evolution
- Sediment Budget
- Digital Analysis of Shoreline Changes
- Physical Modelling on Coastal Geomorphology



# Way forward

- Climate Change Bill
- Support research related to climate change financially
- Strategize the coordination of implementation within CCA-TWG and stakeholders.
- Organize annual update progress workshop to consolidate information from all the relevant partners.
- Securing rresearch grant from Agencies and Private Sector/NGOs/Partners



# Climate Change Bill

Under the 12th Malaysia Plan (RMK-12), Malaysia is taking steps to strengthen its climate governance through the development of a Climate Change Bill (Rang Undang-Undang Perubahan Iklim or RUUPIN), which will form the basis for the country's first Climate Change Act. Spearheaded by the Ministry of Natural Resources and Environmental Sustainability (NRES), the proposed legislation aims to support the national transition to a low-carbon economy, enhance resilience to climate impacts, and institutionalize comprehensive climate governance mechanisms. Key features include the establishment of an independent regulatory authority, provisions for climate data reporting, funding and enforcement mechanisms, emission reduction tools, and broader compliance systems. RUUPIN follows a whole-of-nation approach, incorporating feedback from federal and state governments, private sector, NGOs, and the public to ensure inclusive and effective climate action across all levels of society.



Bali, Indonesia

10 - 11 December 2025

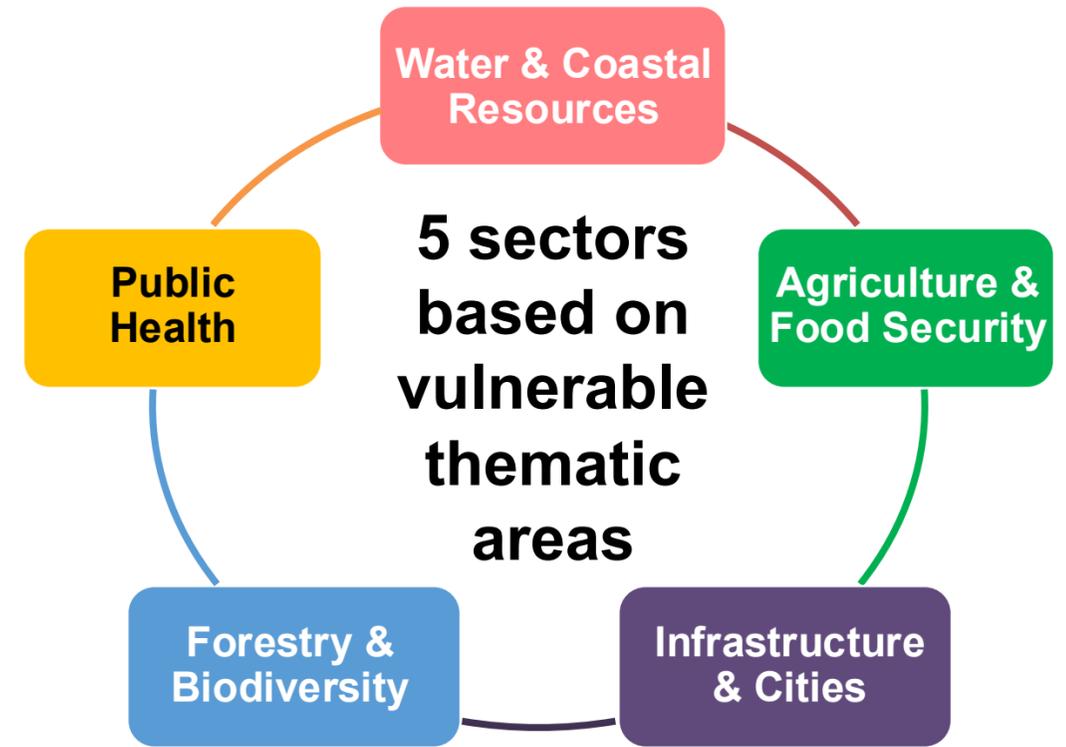
The CTI-CFF 20<sup>th</sup> Senior Officials' Meeting



# MyNAP EXPECTED OUTCOMES BY YEAR 2026

## Malaysia's National Adaptation Plan (MyNAP)

**Goal:** Increase the country's ability to mainstream adaptation actions through national development policies and strategies to build the resilience of vulnerable sectors and communities



### Four Strategic Thrust

<p><b>Adaptation planning governance and institutional coordination strengthened</b></p>	<p><b>Evidence basis used to design adaptation solutions for maximum impact</b></p>	<p><b>Private sector engagement in adaptation catalyzed</b></p>	<p><b>Adaptation finance increased</b></p>
<p>Whole of nation approach</p>	<p>Risk &amp; vulnerability mapping</p>	<p>Access to risk data</p>	<p>Financial target setting</p>
<p>Addressing institutional gaps</p>	<p>Decisions based on risk</p>	<p>Risk transition to a form of adaptive investment</p>	<p>Adaptation financing plan</p>
<p>MyNAP integration</p>	<p>Identify vulnerable areas</p>		

# THREATENED SPECIES

## Assessment of Threatened Species

### A - Continuous data collection for marine threatened species

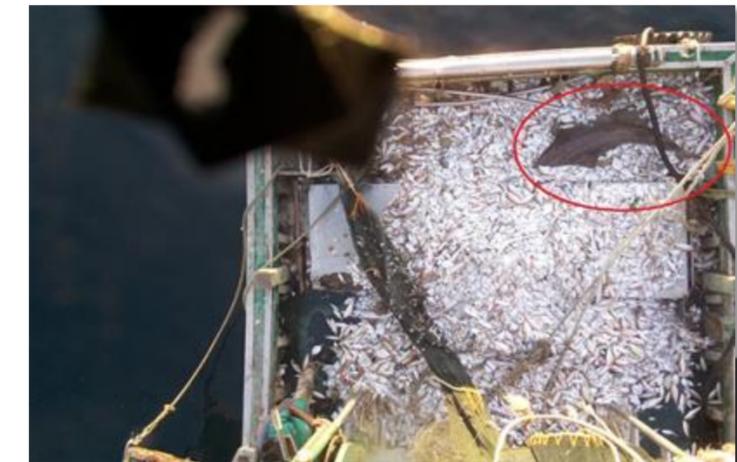
- Sea turtles data collection: nesting, hatching and release into the sea throughout Malaysia
- Sharks and rays data collection at landing jetties and online trade studies
- Data assessment for marine mammals in Penang, Perak, Langkawi, Sabah and Sarawak
- Sea turtles tagging and satellite tracking
- Coral reef research in Sarawak, including coral stock assessments and export quotas for anthozoans (CITES).
- Genetic studies of dugongs and Irrawaddy dolphins.



# Assessment of Threatened Species (cont.)

## B - Technological Advancement

- Reducing threatened species (hammerhead sharks / wedgefish) bycatch in Sabah & Sarawak via electronic monitoring, gear tracking, and time–area closures.
- Turtle Excluder Devices (TEDs) are being used to reduce sea turtle bycatch, with training now ongoing in Sabah and Sarawak, and evaluations guiding possible wider adoption.
- Monitoring marine mammals and sea turtles, and mapping critical habitats using boat surveys, UAV, photo-ID, and GIS to identify conservation hotspots.
- Cleaning up marine plastics through surface and underwater operations, with local and international partners.



# Assessment of Threatened Species (cont.)

## C – ShellBank

- A global sea turtle DNA database used to identify the origin of turtles or turtle products, aimed at combating illegal trade and protecting populations
- implemented as a 2025 pilot by WWF-Malaysia and the Sabah Wildlife Department.



## D – Blue Corridor for Turtle

- A global initiative that maps turtle migration routes using satellite-tracking and genetic data (including ShellBank) to identify critical corridors and IMTAs, supporting international policies to protect threatened sea turtle populations.



# Public Awareness Program

- World Sea Turtle Day/Sea Turtle Awareness Campaign / Combat Illegal Turtle Egg Trade
- Sea Turtle Time – nightly guided walks at Turtle Islands Park
- Sea, Science and Schools Program
- Public Turtle Hatchling Release
- Sea Turtle Nesting Beach Clean-up
- Sea Turtle, Marine Mammals and Shark Outreach Program



# Intensifying Capacity Building

## A - Department / Agency Staff

- Sustainable Management Workshop on Shark and Ray Species in Sabah
- Marine Mammal Stranding Response Workshop for staff of DOFM
- Marine Mammal Stranding Response Workshop for staff of the Sarawak Forestry Corporation (SFC) across Sarawak, in collaboration with UMS

## B – Youth and Community Involvement

- **Junior Park Rangers Sabah Parks Program**
  - designed to educate school students on environmental conservation in Sabah's parks, fostering environmental awareness from a young age.
- **Honorary Wildlife Ranger Sarawak**
  - A volunteer program that engages local communities in wildlife conservation while supporting the Sarawak Forestry Corporation (SFC) in enforcement, monitoring, and environmental education.
- **Wildlife Guardian Ranger (WGR)**
  - Implemented by SFC under the Federal Biodiversity Protection and Patrolling Program with NRES, supporting enforcement, monitoring, and environmental education.
- **Honorary Wildlife Warden Course (WKHL)**
  - Implemented by the Sabah Wildlife Department for local communities, tourism agency and other stakeholders in coastal areas.



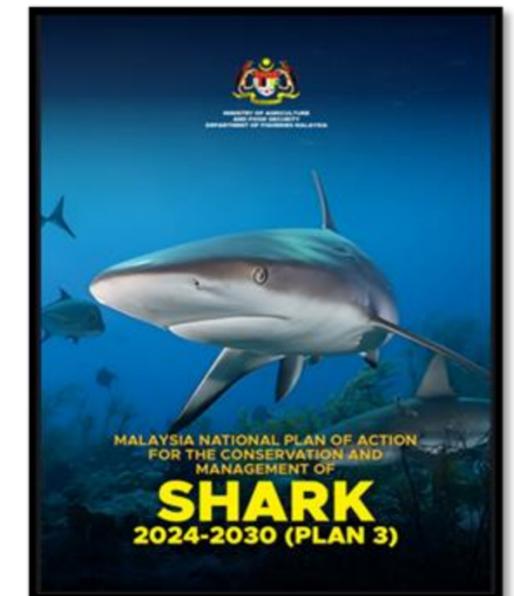
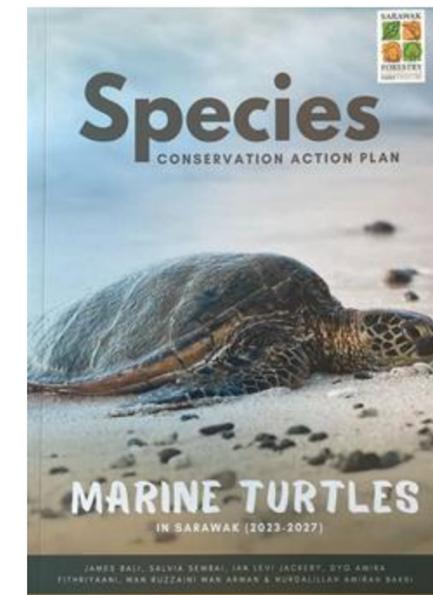
# Enforcement

- Sarawak Forestry Corporation successfully thwarted an attempt to sell turtle eggs and seized 5,691 turtle eggs in Sarawak in 2025
- Monitoring activities at Sugud Island Marine Conservation Area (SIMCA)—Malaysia’s first IUCN Green List marine site based on the SIMCA Management Plan.
- Sabah Wildlife Department, Malaysia continuously doing enforcement activities against turtle egg & turtle body parts, smuggling in/out of Sabah and strengthening forensic DNA capabilities for turtles through the ShellBank program.



# Policies

- Publication of **National Plan of Action for Conservation and Management of Shark Plan 3** aims to protect, restore, and ensure the sustainability of shark and ray populations for the benefit of future generations.
- Species Conservation Action Plan for Marine Turtles in Sarawak
  - Guidance for sea turtles' conservation and management in Sarawak



1. Development of **The Malaysia Fisheries Resources System (MyFiRSt)** as a decision-support system designed to improve the management of marine parks and national fisheries resources. It includes 10 main modules, such as Marine Biodiversity Management.

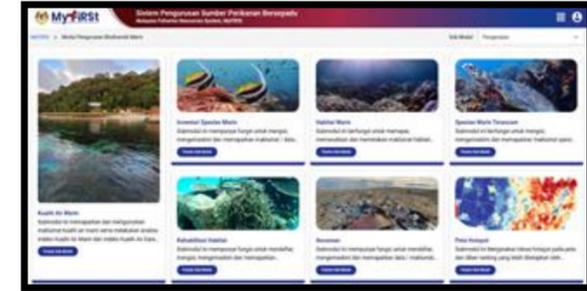
## 2. Fisheries Act 1985 (Amendment Bill 2025)

- Section 27 amended in September 2025 (pending gazette) to strengthen turtle protection and increase fines from RM5,000 to RM250,000.
- Amendment to the Fisheries (Control of Endangered Fish Species) Regulations 1999, Fisheries Act 1985 is now under review by the DOFM Legal Office.

3. Reviewing National Plan of Action for Conservation and Management of **Marine Turtles, Dugong and Marine Mammals.**

4. **Gazettelement of the Dugong Sanctuary** in Johor is still under review by the Ministry's Legal Office.

5. **Feasibility study on the management of threatened marine species in Brunei Bay** is currently ongoing.



# 10 Main Modul



**Modul Pengurusan Taman Laut**

Pautan



**Modul Perikanan Darat**

Pautan



**Modul E-Service**

Pautan



**Modul Pengurusan Biodiversiti Marin**

Pautan



**Modul Pelan Pengurusan Perikanan**

Pautan



**Modul Repositori**

Pautan



**Modul Dashboard**

Pautan



**Modul Sokongan / Aduan**

Pautan



**Modul Pelaporan**

Pautan



**Modul Pentadbiran**

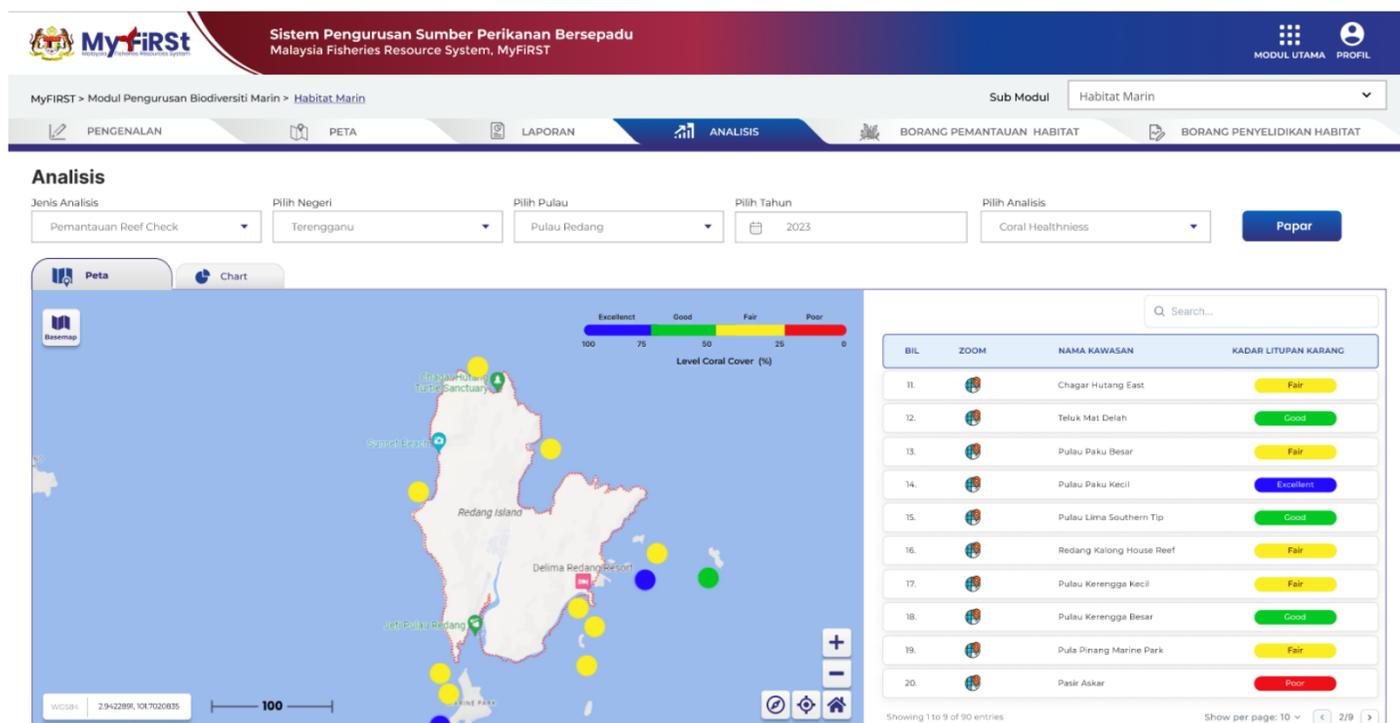
Pautan



**Transformasi Sektor Perikanan**

## MyFIRST Sistem Pengurusan Sumber Perikanan

Jabatan Perikanan Malaysia selaku peneraju dalam pengurusan perikanan negara dengan menguatkuasakan Akta Perikanan 1985, sentiasa melaksanakan aktiviti penyelidikan, pemantauan dan aktiviti konservasi bagi mendapatkan maklumat berasaskan saintifik mengenai sumber perikanan di perairan Malaysia.



**Analisis**

Jenis Analisis: Pemantauan Reef Check | Pilih Negeri: Terengganu | Pilih Pulau: Pulau Redang | Pilih Tahun: 2023 | Pilih Analisis: Coral Healthiness

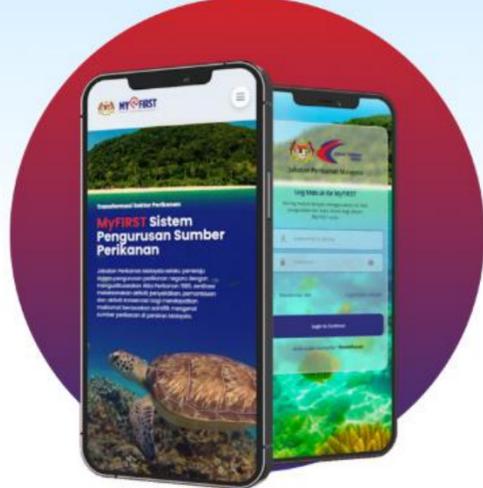
BIL	ZOOM	NAMA KAWASAN	KADAR LITUPAN KARANG
11		Chagar Hutang East	Fair
12		Teluk Mat Delah	Good
13		Pulau Paku Besar	Fair
14		Pulau Paku Kecil	Excellent
15		Pulau Lima Southern Tip	Good
16		Redang Kalong House Reef	Fair
17		Pulau Kerengga Kecil	Fair
18		Pulau Kerengga Besar	Good
19		Dula Pinang Marine Park	Fair
20		Pasir Askar	Poor



KEMUDAHAN DI Hujung Jari Anda

**Muat Turun Aplikasi Mudah Alih MyFIRST**

Anda boleh memuat turun aplikasi myFIRST kami dari Apple Store atau Google Play Store untuk mendapatkan maklumat terkini tentang perikanan Malaysia. Bergabunglah sekarang!

**GO LIVE ROLL OUT**

**1 NOVEMBER 2025**





# 04. Monitoring and Evaluation Working Group



Bali, Indonesia

10 - 11 December 2025

The CTI-CFF 20<sup>th</sup> Senior Officials' Meeting





# MALAYSIA National Plan of Action 2.0

**CTI-CFF**

Coral Triangle Initiative  
on Coral Reefs, Fisheries and Food Security

# Malaysia's National Plan of Action 2.0 (2025–2030) CTI-CFF

*Strengthening Marine Conservation,  
Sustainable Use & Community  
Resilience*

**To be launched on  
18 December 2025  
NRES, Putrajaya**

# 2021-2025 Achievements

## Key achievements

### Marine Habitats and Protected Areas

- Expansion of important marine habitats, with the gazettement of new marine parks in Melaka and Johor, bringing Malaysia's total to 69 marine protected areas and national parks, covering 25,674 km<sup>2</sup>.
  - Taman Laut Melaka* (29.97 hectares, gazetted on 4 April 2023), comprising Pulau Undan, Pulau Nangka, and Pulau Dodol.
  - Lima Islands Marine Park* (gazetted on 1 January 2023, Johor), comprising Pulau Lima Kechil, Pulau Lima Besar, Pulau Tokong Rakit, Pulau Tokong Yu, Pulau Mertang Barat, Pulau Mertang Timur, and Pulau Mertang Tengah.
- Berungus Marine Managed Area (BMMA), Sabah, designated as Malaysia's first marine OECM (Other Effective Conservation Measure) in May 2022
- Recognition of three Important Marine Mammal Areas (IMMAs).
- Identification of 24 Ecological Biological Sensitive Areas (MyIMCAs)

## Regional and International Recognition

### 01

**Sugud Islands Marine Conservation Area (SIMCA)**, recognized in 2022 as Malaysia's first marine-based IUCN Green List site and the first within the CTI region.

### 02

Identification of **nine Important Shark and Ray Areas** in Malaysia's waters (Beluran, Chagar Hutang Bay, Kuala Pahang, Lankayan, Layang-Layang, Mukah, Si Amil, Sipadan, and West Tioman) in the Regional Compendium of Important Shark and Ray Areas (IUCN SSC Shark Specialist Group, 2024).

### 03

Recognition of three Important Marine Mammal Areas (IMMAs).



## COMMUNICATION & OUTREACH

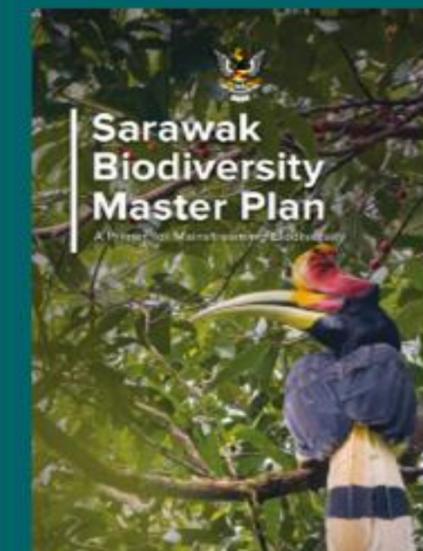
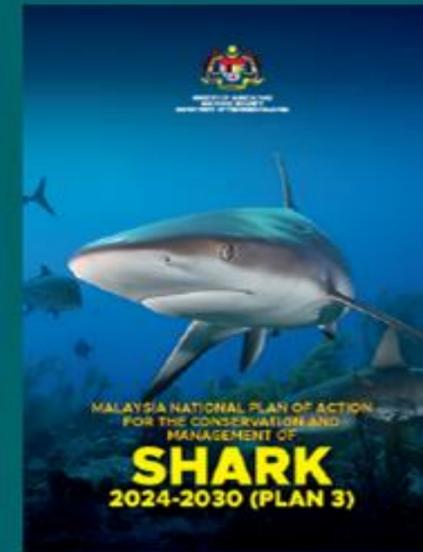
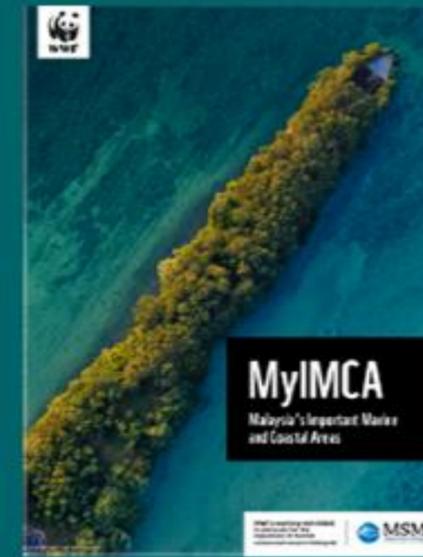
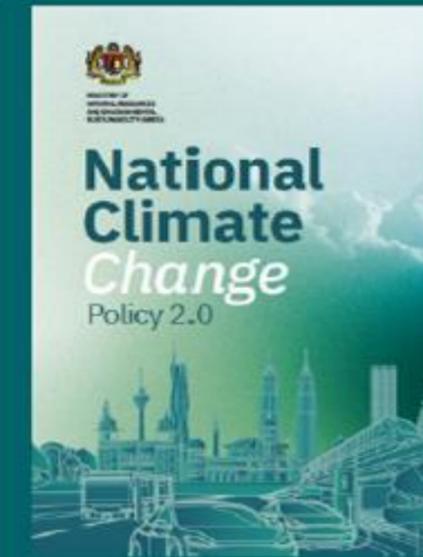
- |             |  |   |
|-------------|--|---|
| <b>2021</b> | A3 Publication of the reduction of illegal fishing: The COVID-19 lockdown in 2021 resulted in fewer fish bombing incidents, with a 39.5% decrease in Tun Mustapha Park (TMP) compared to the baseline data from October 2019 to March 2021         | SP, RCM, Reef Guardian                                      |
| <b>2023</b> | A2 2023 Indonesia sea turtle conservation and the greater Coral Triangle region symposium, Jakarta, Indonesia<br>A2 Marine turtle genetic training by Asia-Pacific Marine Turtle Genetic Working Group, 6-8 June 2023, with members from Malaysia. | DOFM, WWF-M, Universities<br>DOFM, WWF-M, Universities, MRF |
| <b>2024</b> | A2 Dugong Tears and Sea Stories of Pulau Sibul documentary   | MareCet   |



There were **nine activities** related to policy formulation and guidelines to strengthen species, habitat, and environmental protection and management.

## Key policy achievements :

- National Plan of Action for the Conservation and Management of Sharks (2024–2025)
- Species Conservation Management Plan for Marine Turtles in Sarawak (2021–2025)
- Rapid Reference Guideline for Combating Wildlife Trafficking (illegal wildlife trade)
- Amendment to the Turtle Enactment 1951 (Terengganu) banning the sale, collection, and consumption of turtle eggs (effective June 2022).



# NPOA 2.0 BY 2030

## TARGET

**29 ACTIONS**  
-----  
**139 ACTIVITIES**

**A1** Coral reefs, mangrove and seagrass

8 actions and 42 activities

Expanding marine protected areas, enhancing restoration, and strengthening financing

**A2** Threatened Species

5 actions and 32 activities

Reducing threats, enforcing policies, and advancing systematic monitoring

**A3** Healthy and Productive Fisheries

4 actions and 19 activities

Implementing ecosystem approaches, fisheries improvement projects, and addressing IUU fishing.

**B1** Healthy and Productive Fisheries

5 actions and 15 activities

Promoting alternative livelihoods, reducing poverty, and supporting sustainable fisheries.

**B2** Gender Equality and Social Inclusion

3 actions and 4 activities

Gender equality inclusion

**B3** Climate-Resilient Communities

4 actions and 27 activities

Strengthening adaptive capacity, awareness, and nature-based Restoration.

**84%**





# 05. National Update on Financial Progress



Bali, Indonesia

10 - 11 December 2025

The CTI-CFF 20<sup>th</sup> Senior Officials' Meeting



## Summary of Financial Progress :

No.	Area	Country Update
1	Partnerships with donors, NGOs, or private sector	Department of Fisheries Malaysia collaborated with several NGOs such as WWF-Malaysia, Marine Research Foundation and MareCet through Memoranda of Understanding (MoU) to conduct activities and research.
2	Development or implementation of national trust fund / sustainable finance mechanism	<ol style="list-style-type: none"> <li>1. National Conservation Trust Fund for Natural Resources (NCTF) is a trust fund under NRES, which plays a vital role in supporting Malaysia's efforts to preserve and protect our natural resources. NCTF enables long-term environmental initiatives that protect biodiversity, wildlife, and ecosystems across the country.</li> <li>2. Sabah Parks has own Trust Fund since 2023, under purview of the Board of Directors, audited by National Audit &amp; 3<sup>rd</sup> party accountants. Value cannot be revealed due to State Secrets Act. No specific sustainable finance mechanism.</li> </ol>
3	Integration of blue economy or innovative finance into national plans	<ol style="list-style-type: none"> <li>1. Malaysia is currently in the stage of finalizing blue economy blueprint to strategically harness Malaysia's extensive marine resources for sustainable socioeconomic development, addressing pressing national and global challenges.</li> <li>2. Sabah Parks is looking towards carbon trading as source of additional income. Sabah Forestry Enactment was amended in May 2025 to enable gazette forests to considered assets, but specific laws pertaining to carbon trading are still being drafted. Sabah Blue Economy government initiative launched in 2024, aims for sustainable economic development for marine-based resources. Sabah Blue Economy Framework being drafted.</li> </ol>

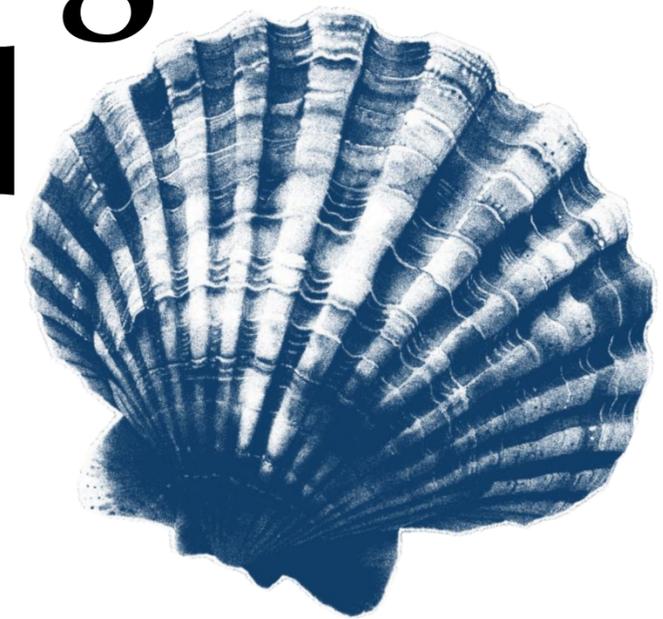


## Summary of Financial Progress (cont.):

No.	Area	Country Update
4	Climate finance or ecosystem-based adaptation initiatives	MYR 180.86 million had been set aside in the State Budget, for climate mitigation measures distributed to different agencies, which includes climate mitigation studies
5	Financing for marine pollution / waste management programs	None
6	% of MPA management costs covered by sustainable / innovative financing	<u>30</u> % Majority costs of MPAs in Sabah still are still covered under State budgets, Sabah Parks aims to be 50% by 2030 with park entrance fees, concession fees & SP trust fund to cover the rest



# 06. Potential Regional Program and Support Required



Bali, Indonesia

10 - 11 December 2025

The CTI-CFF 20<sup>th</sup> Senior Officials' Meeting



No.	Activities	Time Frame	Budget Estimation (USD)	Objectives	NPOA
1	Establishment of a Malaysian MPA Technical Working Group	Q1 – Q4 2026	USD 10,000	<ul style="list-style-type: none"> <li>• Establishment of an inter-cooperation between MPA agencies in Malaysia</li> <li>• Establish a working group on Malaysian MPA issues</li> <li>• Share &amp; bridge knowledge gaps between East &amp; West Malaysia</li> <li>• Share best practices</li> <li>• Identify issues of national interest</li> </ul>	Target A1, Activity 8, 10
2	Conduct Training Workshop on Enhancing Management Effectiveness of Marine Protected Areas, with a Focus on the IUCN Green List Standard*  *co-organized between Sabah Parks and WWF-Malaysia	Q1-Q4 2026  (to be extended to 2027 if funding secured)	Approx USD 7,771.52 funding secured for Sabah programme, additional USD 10K needed to extend the programme for nationwide workshop	<ul style="list-style-type: none"> <li>• Strengthen capacity of MPA practitioners</li> <li>• Promote shared understanding of management, planning &amp; governance</li> <li>• Apply hands-on practice on IUCN Green List</li> <li>• Encourage cross-collaboration &amp; explore the development of a national practice on management effectiveness</li> </ul>	Target A1, Activity 12



No.	Activities	Time Frame	Budget Estimation (USD)	Objectives	NPOA
3	Pilot discussions and facilitate knowledge-sharing sessions among MPA managers, to facilitate formalizing a National MPA Managers Network (in support of the Regional MPA Managers Network)	Q1 – Q4 2026	TBD, program is virtual	<ul style="list-style-type: none"> <li>Strengthen Collaboration and knowledge among MPA managers through pilot discussions and shared learning lessons</li> <li>Assess stakeholder interest and define pathways toward formalizing a National MPA Managers Network</li> </ul>	Target A1, Activity 5





"One Triangle, Infinite Beauty"

# 07. Coral Triangle Day Celebration



Bali, Indonesia

10 - 11 December 2025

The CTI-CFF 20<sup>th</sup> Senior Officials' Meeting



# Coral Triangle Day Celebration at Universiti Malaysia Sabah (9-21 June 2025)

- Officiated by Datuk Nor Yahati Awang, Deputy Chief Secretary (Environmental Sustainability) of the Ministry of Natural Resources and Environmental Sustainability (NRES)
- June **9 to 21, 2025**, the 12-day celebration carried the theme “*Wonder: Sustaining What Sustains Us*”
- Featured **16 engaging programmes** aimed at strengthening public awareness and participation in marine conservation, climate change awareness.
- Involved and participated at least 5000 people from agencies, schools, local communities, and general public



# 08. Communication and Publications



Bali, Indonesia

10 - 11 December 2025

The CTI-CFF 20<sup>th</sup> Senior Officials' Meeting



➤ **Blueprint for Large Marine Managed Area (MyMPA)**

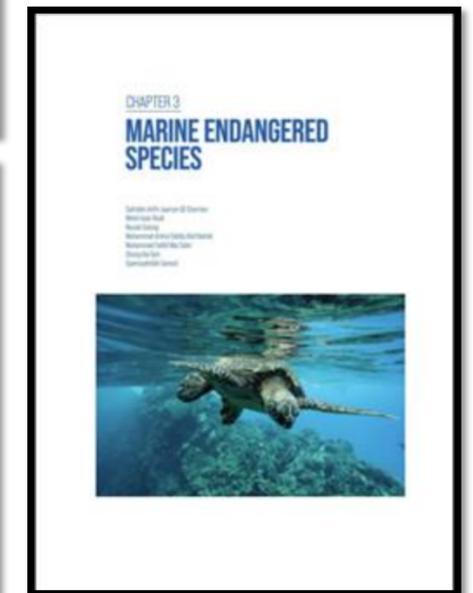
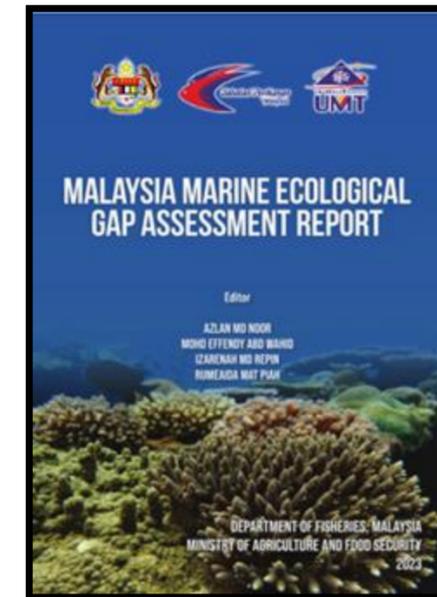
- Basic guidelines for Malaysia’s efforts to manage and protect 10% of national waters, including potential sites and governance for Marine Protected Areas (MPAs) through a holistic Blue Economy and Marine Spatial Planning (MSP) approach
- includes IMMA recommendations for Brunei Bay, Perak, and Langkawi.

➤ **Malaysia Marine Ecological Gap Assessment Report**

- Objectives:
  - Create comprehensive inventory, identify data gaps, and propose protected areas & ecological corridors
  - Stands as a reference for various stakeholders in biodiversity resources and marine ecosystems in Malaysia

➤ **From Sea to Screen Report**

- A report by WWF-Malaysia based on an online study of shark and ray trade.



# Publication

- Book: Sabah Mangrove Action Plan 2024-2033 by Sabah Forestry Department
- Book: From the Equator to the Ice: Malaysia's Contributions to Antarctic Science (2013–2023)
- Chin Jia Hui, Justin Sentian, Jackson Hian Wui Chang, Farrah Anis Fazliatul Adnan, Salwa Naidin, Franky Herman and Teo Yu Rou 2025. Spatiotemporal Evaluation of Biomass Burning Emissions in Equatorial Southeast Asia (ESEA) for 2013 and 2021. *Aerosol and Air Quality Research* (2025) 25:56. <https://doi.org/10.1007/s44408-025-00057-3>.
- Mohd Azamuddin Mohd Hassan, Ejria Saleh, Rohana Tahir, John Madin. 2025. Influence of monsoon seasons on seagrass ecosystems on the coast of Kota Kinabalu (Sabah, Malaysia). *Borneo Journal of Resource Science and Technology*. 15 (1). 23-31.
- Muhammad Bin Zamria, Jing Lin Nga, Norashikin Ahmad Kamala, Jin Chai Leeb & Siaw Yin Thian, 2025. . Spatial Analysis of Rainfall in Kelantan River Basin. *Jurnal Kejuruteraan* 37(4) 2025: 1925-1934. [https://doi.org/10.17576/jkukm-2025-37\(4\)-31](https://doi.org/10.17576/jkukm-2025-37(4)-31).





# 09. Story From The Field



Bali, Indonesia

10 - 11 December 2025

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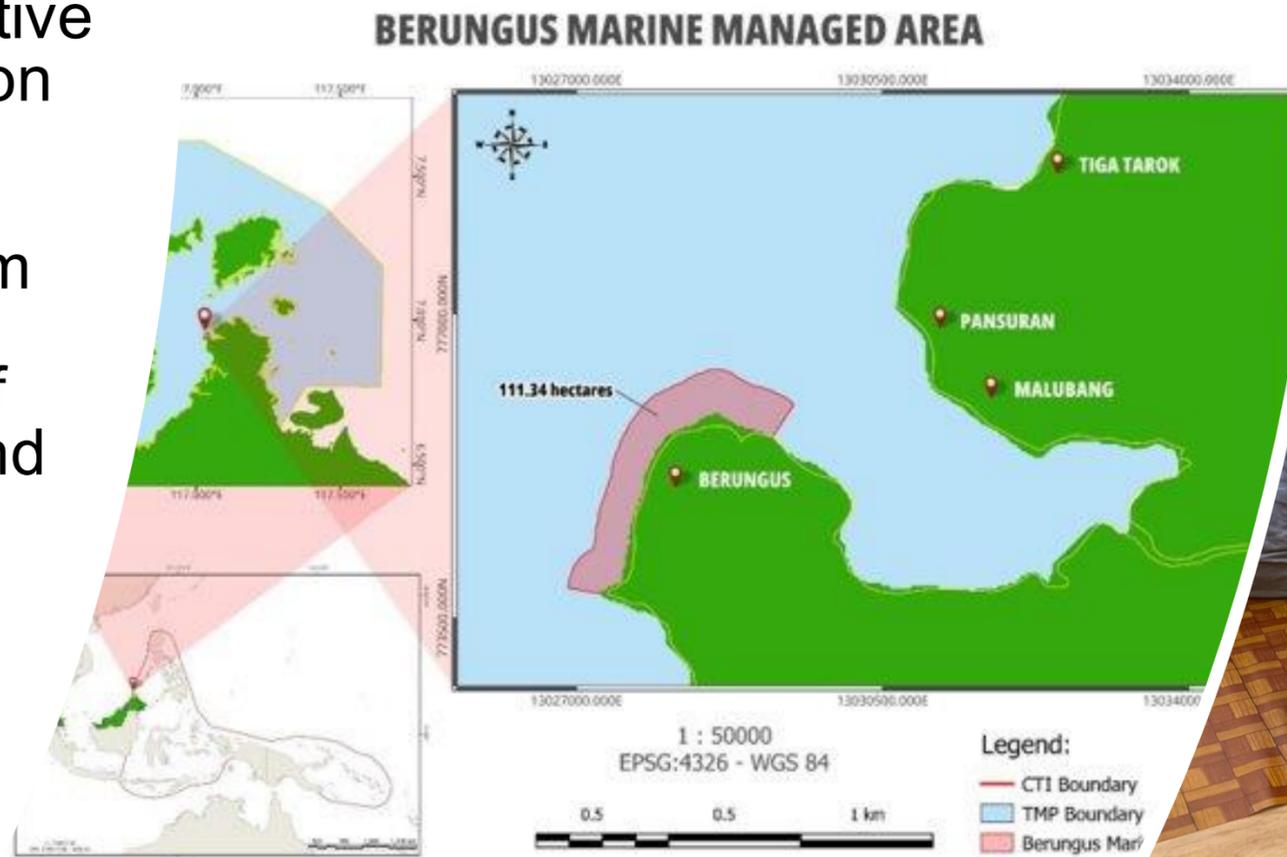


# Community-Led Conservation

- **Community-based managed area**
  - Facilitate the designation of 5 coastal community areas in Sabah as Locally Managed Marine Area as (LMMAs) or Other Effective Area-Based Conservation Measures (OECMs)
  - To secure ecosystem services, and values for the long terms benefit of both the environment and the community.



**215**  
**coastal communities**  
**supported in capacity building**  
**programme on biodiversity**  
**conservation**



# Community Enterprise

At least **6** livelihood initiatives introduced for communities from different groups (women, youth, stateless)

**10** community organizations were supported in developing **Community-Led Enterprise Action Plan** to strengthen community, with **164** beneficiaries identified in the programmes

## ➤ **WAPO: A model for replicable women-led conservation**

- WAPO's approach—empowering women, creating sustainable economic opportunities, and supporting environmental conservation—stands as a powerful example of community-based action.
- Potential learning site - Role as a mentor for community enterprise



THE ISLAND WITH US

## BANGGI ISLAND

"OFFER THE PERFECT GETAWAY  
CONNECT WITH NATURE"

ACTIVITY A - SNORKELING	ACTIVITY B - SCUBA DIVING	ACTIVITY C
• RM 80/PAX, WITH A MINIMUM OF 6 PAX	• LEISURE DIVE - 2 DIVES RM 250/PAX WITH A MINIMUM OF 4 PAX.	• RM 150/PA OF 6 PAX
• INCLUDE: BREAKFAST, GUIDE, EQUIPMENT, TRANSPORTATION, AND UNDERWATER PHOTOGRAPHY	• DISCOVERY SCUBA DIVING 2 DIVES: RM280 PER PERSON WITH A MINIMUM OF 4 PAX	• INCLUDE: B BREAKFAST AND ICE BO
	**Include - Dive guide, Boat transport, Equipment, Refreshment and Underwater Photography	**Costs va the fishing

We also provide rental services for diving equipment:

- BCD : RM 30
- Regulator: RM 30
- Mask: RM 20
- Fin: RM 20
- Snorkel: RM 10
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Booking Info:  
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BANGGI CORAL CONSERVATION



## WOMEN IN CONSERVATION

### The story of Women Association of Omadal Island (WAPO)

When we think of conservation heroes, our minds often picture scientists, rangers, or global activists. But on a small island located at Semporna, Sabah, the environmental protection action comes not from outside experts but from the women of the island themselves. This is the story of the Women Association of Omadal (WAPO), a community based organisation led by Bajau women who are transforming their community through conservation and handicraft making activity.



Surrounded by coral reefs, seagrass beds, and mangrove habitats, with its turquoise waters and white sandy beaches, the island is home to a rich and diverse ecosystem. Known as the oldest Bajau settlement in Semporna, Omadal holds deep historical and cultural significance for the Bajau Community. The community relies heavily on marine resources for both food and income, making the protection of their marine environment crucial to their well-being and livelihood.

In earlier days, the women of Omadal Island primarily took on the role of housewives supporting their husbands by preparing food, caring for children, and managing household chores. It was common for women to walk to the shore during low tide to gather seashells, sea cucumbers, and other coastal resources for meals. Some women also weave traditional mats, known as *sepe* in the local Bajau language, using pandanus leaves. These mats are mostly used during traditional events or for personal and family use.

**The Women's Association of Omadal Island (WAPO)**

Established in 2012 under a WWF-Malaysia initiative to involve the community in conservation efforts. Its mission is to promote the sustainable management of marine resources while providing socioeconomic benefits to the community and preserving the local Bajau culture and traditions. WAPO comprises of 2 main unit: conservation unit and handicraft unit that depending on each other whereas 10% of the handicraft sales will proceed to conservation fund to support the environmental protection activities.

Through this initiatives, it marks the start of a journey where WAPO are driving change for their community and island.



# Climate Change Adaptation Initiatives

The local community actively participates in the Local Early Action Plan (LEAP) to implement climate change adaptation

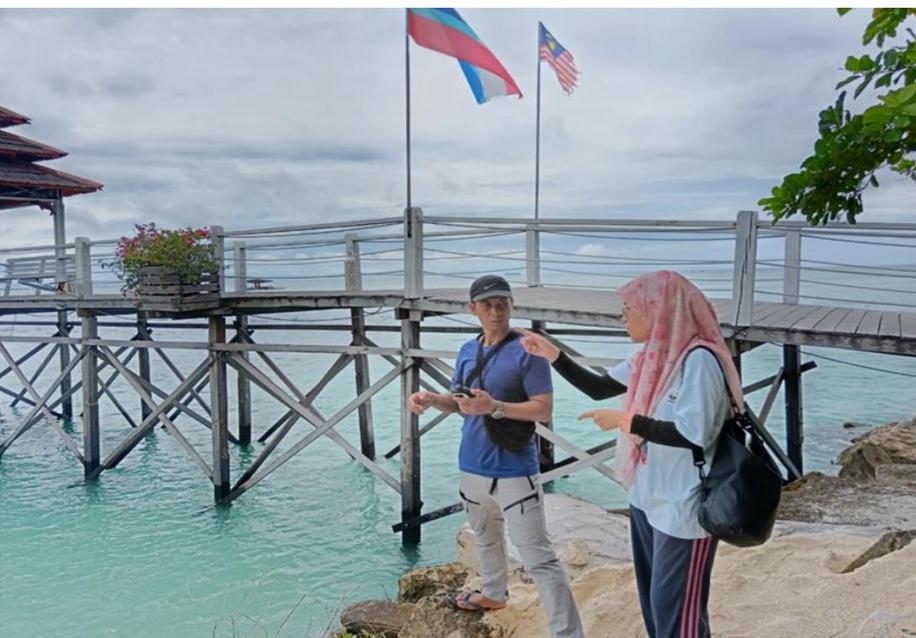
At least 18 climate change adaptation solutions initiated in 2 village



Rainwater harvesting



Groundwater study to assess water quality



Drone mapping to monitor beach erosion



Coral restoration

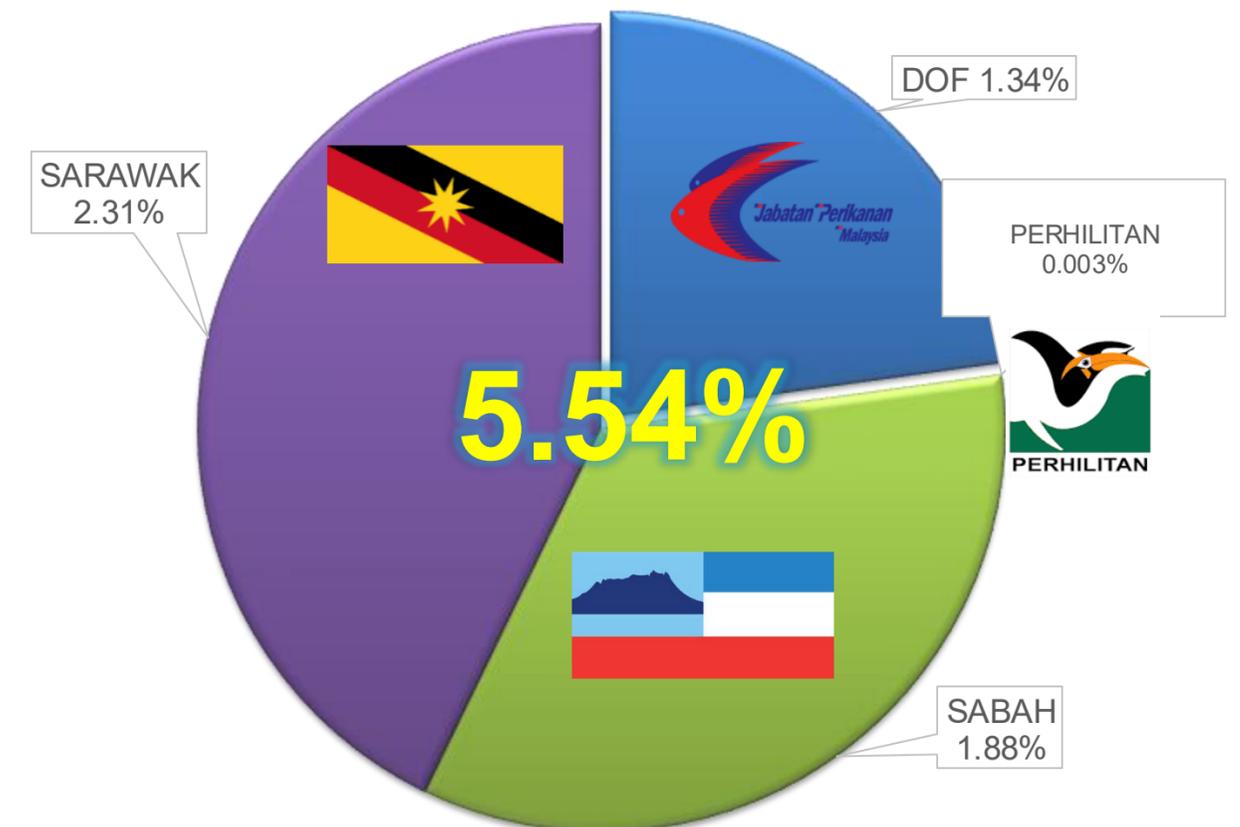
# Status of MPA in Malaysia

No.	Jurisdiction	MPA	Num.	Area km <sup>2</sup>	(%)
1	DOF	Marine Park	56	2,224.71	1.34%
		Fisheries Prohibited Area	7	195.10	
		Fisheries Prohibited Area:Rantau Abang	1	513.80	
		Sea Cucumber Protection Area	1	0.42	
		Refugia	2	2,573.7	
		Conservation Zone 1bn	1	1,734.0	
2	PERHILITAN	National Park P.Pinang	1	13.81	0.003%
3	Sarawak	MPA	8	12,437.26	2.31%
4	Sabah	MPA	7	10,151.27	1.88%
<b>TOTAL</b>			<b>84</b>	<b>29,844.08</b>	<b>5.53%</b>

**5.53%** : Malaysia MPA

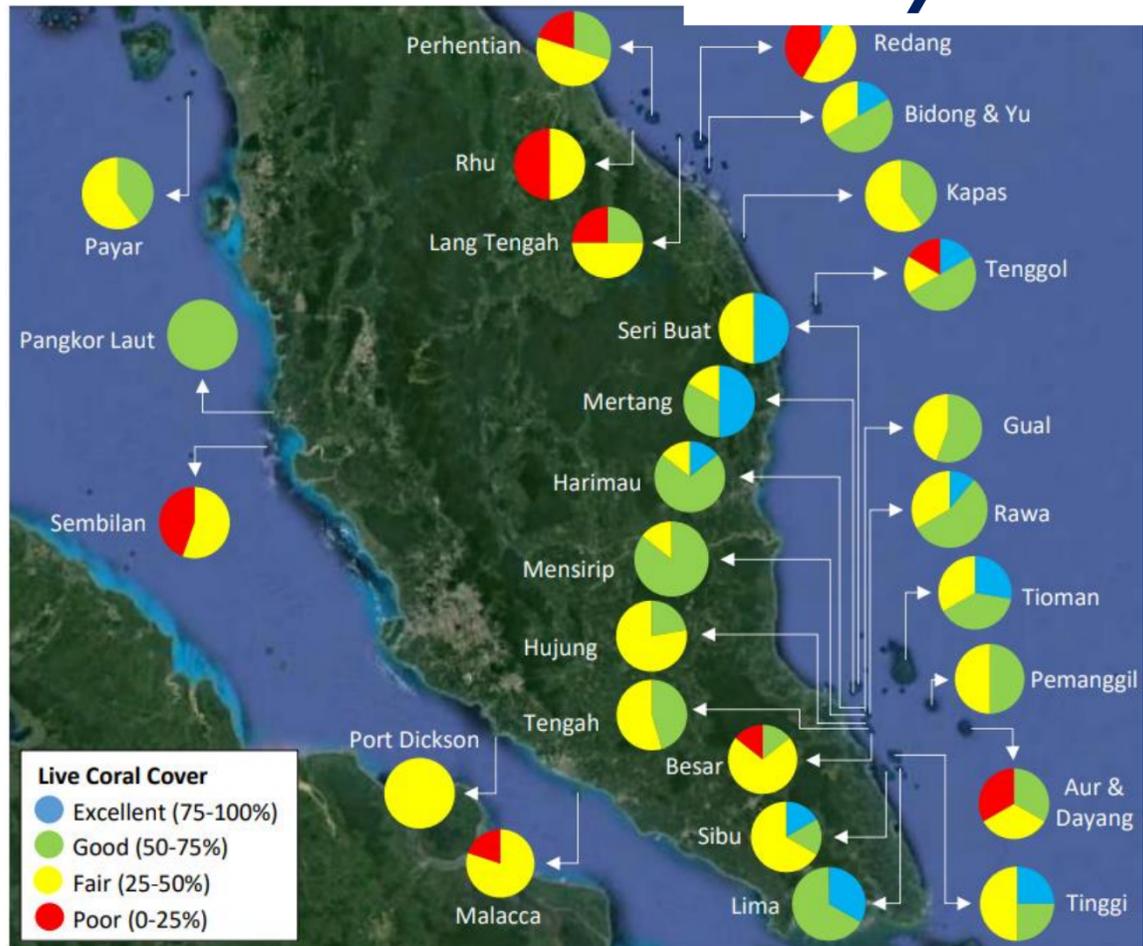
**84** : Numbers of MPA

**29,844.08km<sup>2</sup>** : Area of MPA

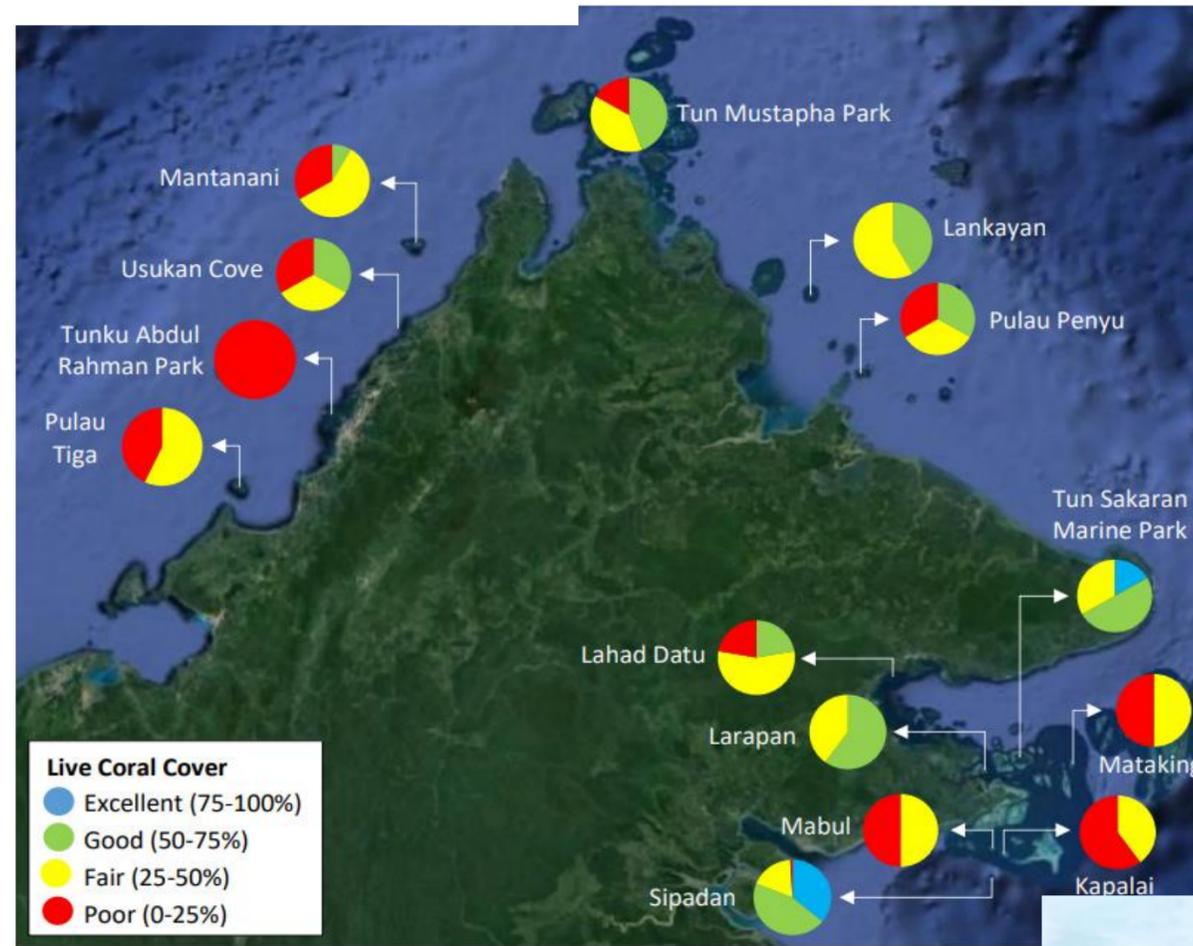


\* Pengiraan keluasan adalah berdasarkan keluasan Zon Ekonomi Eksklusif Negara 538, 987km<sup>2</sup> (JUPEM, 2023)

# Malaysia Reef Status 2024



Map showing the reef health composition of each survey location Coral Cover.



Map showing the reef health composition of each survey location in Sabah based on Live Coral Cover.



- Total Sites: **326**
  - **161**: Sunda Shelf
  - **23**: SOM
  - **142**: North Borneo

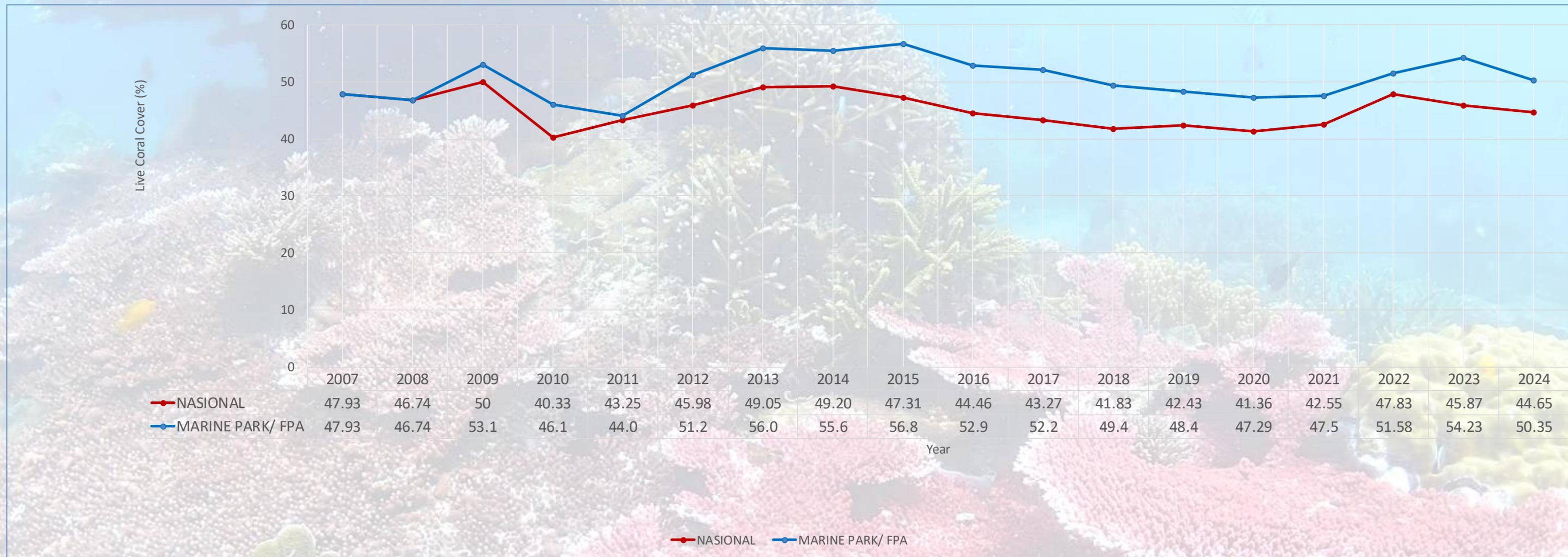


**THANK YOU!**



**Citizen Science: Annual Reef Monitoring**

# Malaysia Coral Reef Status



Long Term Monitoring Program: **18 years**

Long-Term Trends in Changes in Live Coral Cover

Analysis of LCC: Marine Park Vs National

% LCC Marine Park > National

The basis for national coral reef management actions

# Malaysia Coral Bleaching Event In 2024



**JABATAN PERIKANAN MALAYSIA**  
**KEMENTERIAN PERTANIAN DAN KETERJAMINAN MAKANAN**  
 Department of Fisheries Malaysia  
 Ministry of Agriculture and Food Security  
**UNIT KOMUNIKASI KORPORAT**  
 ARAS 6, BLOK 4G2, WISMA TANI  
 NO. 30, PERSIARAN PERDANA, PRESINT 4  
 62628 PUTRAJAYA  
 MALAYSIA

03-8570 4426  
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 http://www.dof.gov.my

No. Ruj.: PRK.ML.1

## KENYATAAN MEDIA

### KELUNTURAN KARANG DI MALAYSIA: STATUS SE INTERVENSI OLEH DOF

Kelunturan karang merupakan ancaman besar kepada kesihatan terumputan terumbu karang di Malaysia. Menurut US National Oceanic and Atmospheric Administration (NOAA), dunia kini sedang mengalami peristiwa kelunturan karang global keempatnya iaitu yang kedua dalam dekad yang lalu.

#### Memahami Kelunturan Karang

Kelunturan karang adalah tindak balas semula jadi karang terhadap tekanan. Apabila tertekan, batu karang mengeluarkan alga mikroskopik, dipanggil zooxanthellae, yang hidup dalam tisu mereka dan yang memberikan karang sebahagian daripada warnanya. Pengusiran ini menyebabkan batu karang menjadi berwarna putih atau kekuningan. Apabila zooxanthellae kembali, mereka rupa yang normal. Apabila zooxanthellae kekal pergi, batu karang akan mati dan akhirnya akan pecah menjadi serpihan.

Di Malaysia, peristiwa kelunturan yang ketara berlaku pada tahun 2004, 2010, dan 2014-2016. Berdasarkan suhu air laut global, kelunturan karang yang lebih kerap pada tahun-tahun akan datang.

#### Kepentingan Ekonomi dan Ekologi Terumbu Karang

TARIKH	MEDIA	RUANGAN	MUKA SURAT
24/6/2024	THE STAR	NATION	6

## 'Many reefs hit by coral bleaching'

Higher sea surface temperatures affect marine park islands, says Fisheries Dept

**PETALING JAYA:** Over half of the coral reefs in Malaysian waters have been affected by coral bleaching between April and June due to increased sea surface temperatures. The Fisheries Department said those particularly affected are the marine park islands in four states: Pulau Payar (Kedah); Pulau Perhentian, Pulau Redang and Pulau Tenggol (Terengganu); Pulau Tioman (Pahang); and Pulau Pemanggil (Johor). "This is due to the increased sea surface temperatures. Most affected reefs are in shallow waters less than 10m deep. These sites are being closely monitored to track changes in the bleaching situation," the department said in a statement.



Reports from dive operators, divers and surveys by NGOs such as Reef Check Malaysia confirm mass bleaching, it added. Early this year, the US National Oceanic and Atmospheric Administration issued a "Bleaching Watch" notification for Malaysia. The department has also collaborated with representatives from Sabah and Sarawak, local researchers and NGOs to establish the Malaysia Coral Bleaching Response Committee to gather information and take action against coral bleaching, it said, while also urging all parties, especially in the tourism sector, to mitigate the effects of coral bleaching. "Tourism operators on marine park islands are encouraged to control the number of tourists engaging in water activities to reduce pressure on the reefs. "Tourists should avoid overcrowded areas, reduce single-use plastics, properly dispose of waste and report sightings of coral bleaching to the department or relevant authorities," it added. If bleaching exceeds 80%, interventions like temporary access restrictions may be implemented to protect affected reefs, it said. The department assures all stakeholders that, as far as possible, disruption to tourism activities caused by these management interventions will be minimised. "The goal is simply to reduce stress caused to the already weakened reefs and ensure their survival in the future," it said. Coral reefs are vital ecosystems, providing habitats and breeding grounds for up to one-third of marine species. According to a study conducted by the Fisheries Department, the economic value of marine parks, which are largely surrounded by coral reef ecosystems, amounts to RM8.7bil per year. Coral bleaching is a natural response of corals to environmental stress, where corals expel the microscopic algae called zooxanthellae. These algae provide most of the coral's food and vibrant colour; whereby without it, the coral turns white, giving it a bleached appearance. Mass bleaching refers to the large-scale bleaching of multiple coral species over wide areas.

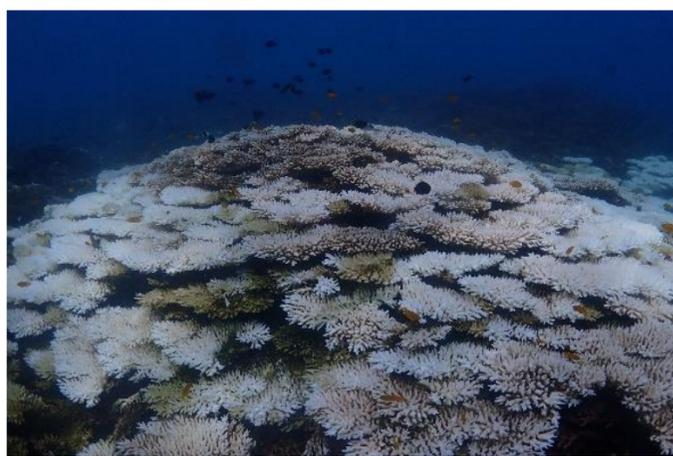
TARIKH	MEDIA	RUANGAN	MUKA SURAT
24/6/2024	UTUSAN MALAYSIA	DALAM NEGERI	4

## Suhu laut naik, terumbu karang negara alami kelunturan teruk

**PETALING JAYA:** Jabatan Perikanan Malaysia (DOF) mengesahkan terumbu karang di negara ini sedang mengalami kelunturan besar-besaran.

DOF memaklumkan, tinjauan yang dijalankan dari April hingga Jun lebih 50 peratus terumbu karang mengalami kelunturan teruk.

Katanya, ia melibatkan Pulau Payar (Kedah), Pulau Perhentian, Pulau Redang, Pulau Tenggol (Terengganu), Pulau Tioman (Pahang) dan Pulau Pemanggil (Johor).

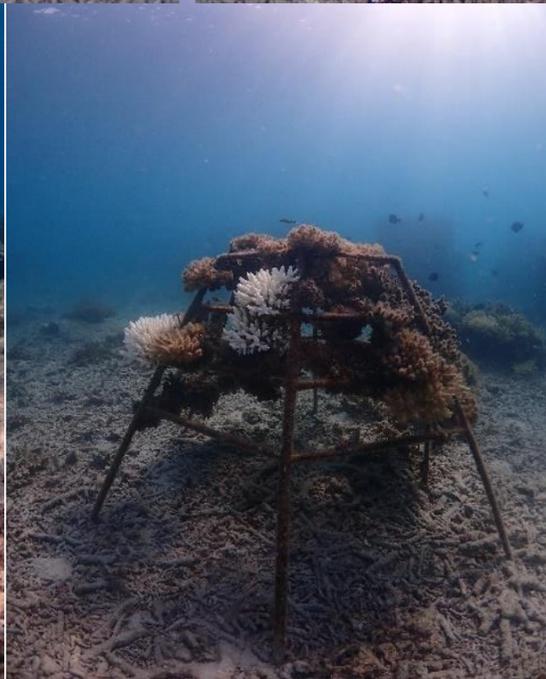
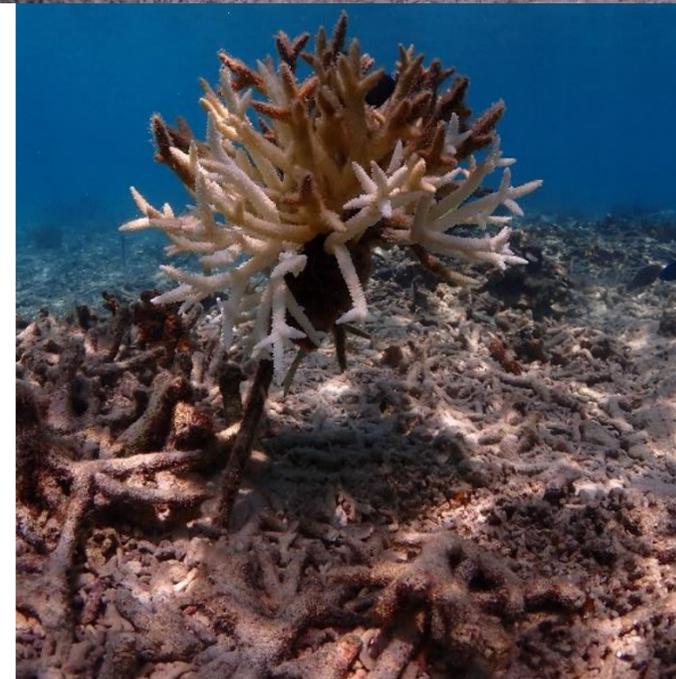
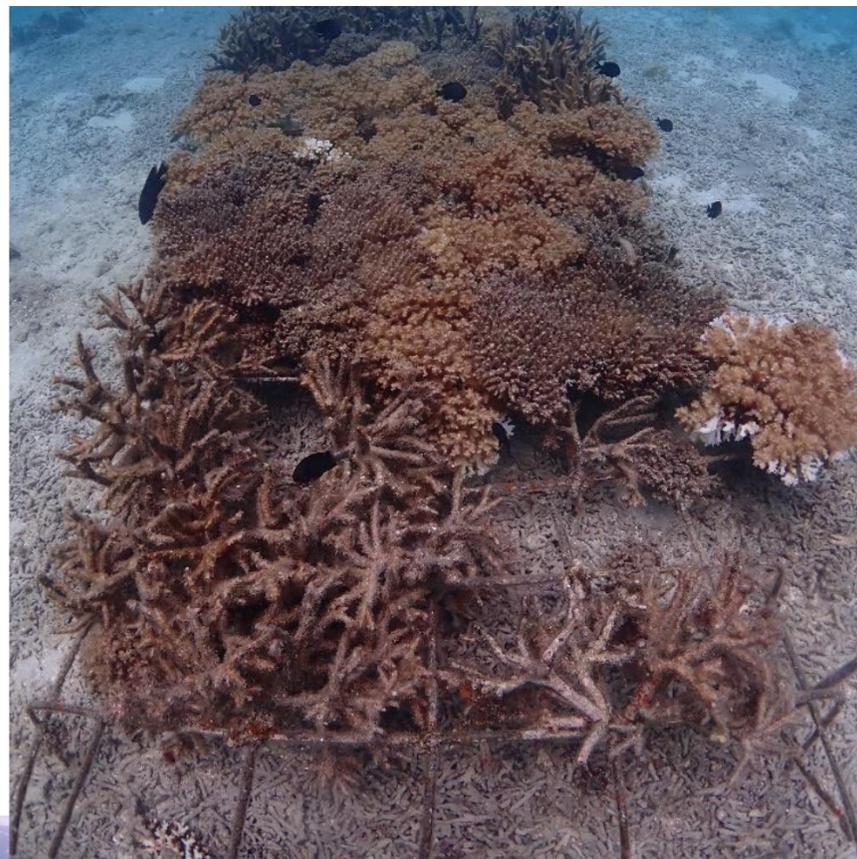


No	Location	Percentage of Coral Category (Julai - Ogos 2024), %		Percentage of Coral Category (Sept - Dis 2024), %		Percentage Difference(%)	
		Live Coral	Dead Coral	Live Coral	Dead Coral	Live Coral	Dead Coral
1.	Pulau Payar, Kedah	56.0	5.0	33	16.7	23	11.7
2.	Pulau Tioman, Pahang	43.3	6.7	40	10.0	3.3	3.3
3.	Pulau Redang, Terengganu	37.5	3.0	20	14.0	17.5	11
4.	Pulau Perhentian, Terengganu	49.2	3.3	30	10.0	19.2	6.7
5.	Pulau Kapas, Terengganu	46.7	1.7	60	10.0	(13.3)	8.3
6.	Pulau Tenggol, Terengganu	60.0	0	65	5.0	(5)	5.0

# Coral Restoration in Marine Park Terengganu BEFORE Coral Bleaching Event in 2024



# Coral Restoration in Marine Park Terengganu AFTER Coral Bleaching Event in 2024



- 12,000 coral fragments were planted in Tun Mustapha Park in May, breaking the national record
- Several sites in Simpang Mengayau, Kalampunian Island
- Sabah Parks was presented with the certificate from the Malaysia Book of Records
- Planted with partners, NGOs, communities & volunteers: approx. 500 participants



## Sabah sets new record with coral planting initiative

By STEPHANIE LEE



**SABAH & SARAWAK**

Monday, 19 May 2025  
1:31 PM MYT

### Related News



**SABAH & SARAWAK** 16h ago  
Sabah launches Borneo.TV streaming platform

**SABAH & SARAWAK** 1h ago  
Police report lodged against Albert Tei for allegedly insulting...



Divers conducting pre-assessment on site prior to completing their project.

KOTA KINABALU: Sabah has set a new conservation record by planting 12,000 coral fragments in Kudat district, the largest initiative of its kind.

The Malaysia Book of Records verified and recognised this achievement on Monday



# THANK YOU

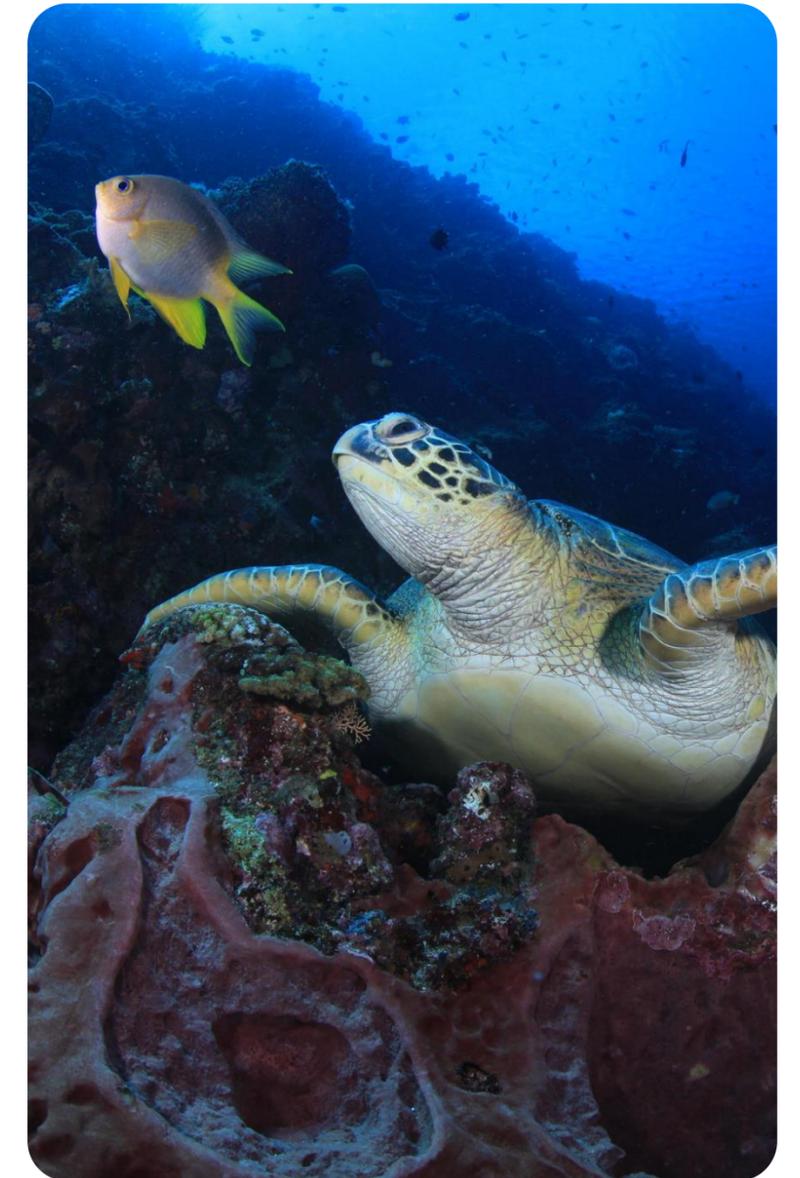
TERIMA KASIH

 Ministry of Natural Resources and Environmental Sustainability (NRES),  
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[www.coraltriangleinitiative.org](http://www.coraltriangleinitiative.org)

