



REPORT OF THE CHAIRPERSON OF THE 1st REGIONAL SCIENTIFIC AND TECHNICAL COMMITTEE MEETING

Presented by : Valerianno M.Borja (Mr.)

Vice-Chairperson of the RSTC

First Meeting of the Regional Scientific and Technical Committee



at Centara Chuan Talay Resort & Villas,
Trat Province, Thailand.
on 11th-13th September 2018

23 participants including:

- The Chief of National Scientific and Technical Committee,
- Country's representatives,
- Regional experts,
- SEAFDEC-Japanese Trust Funds,
- SEAFDEC-Sweden Project,
- SEAFDEC Training Department,
- SEAFDEC Secretariat



Mr. Leng Sy Vann
Chairperson



Mr. Valeriano M. Borja
Vice Chairperson



Mr. Nguyen Thanh Binh
Rapporteur

Regional Scientific and Technical Committee (RSTC) was established with their responsibility for:

- Overseeing the scientific and technical elements of the project,
- Ensuring effective implementation of activities undertaken during project execution,
- Providing sound scientific and technical advice to the Project Steering Committee.

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MAIN ACTIVITIES

(Since The Project Approved)



Project Inception Workshop
1-3 November 2016



Signed Letter of Agreement
by Relevant Member Countries



Implementation and Selection
of Fisheries *Refugia* Sites



Regional Scientific and
Technical Committee Meeting
11– 13 September 2018

MAIN ACTIVITIES (Since The Project Approved)

1. Project Inception Workshop: 1-3 November 2016

AIMS: To enhance the understanding of concerned countries on the Project implementation.

2. Signed Letter of Agreement by Relevant Member Countries

- Cambodia, Malaysia, Philippines, Thailand signed the LOA
- Viet Nam requests for Letter of Intent (LOI),
- Indonesia requests for MOU between MMAF and SEAFDEC



3. Implementation and Selection of Fisheries Refugia Sites

Indo-Pacific Mackerel

Cambodia: Koh Kong
Thailand: Trat

Juvenile Grouper

Cambodia: Kampot

Blue Swimming Crab

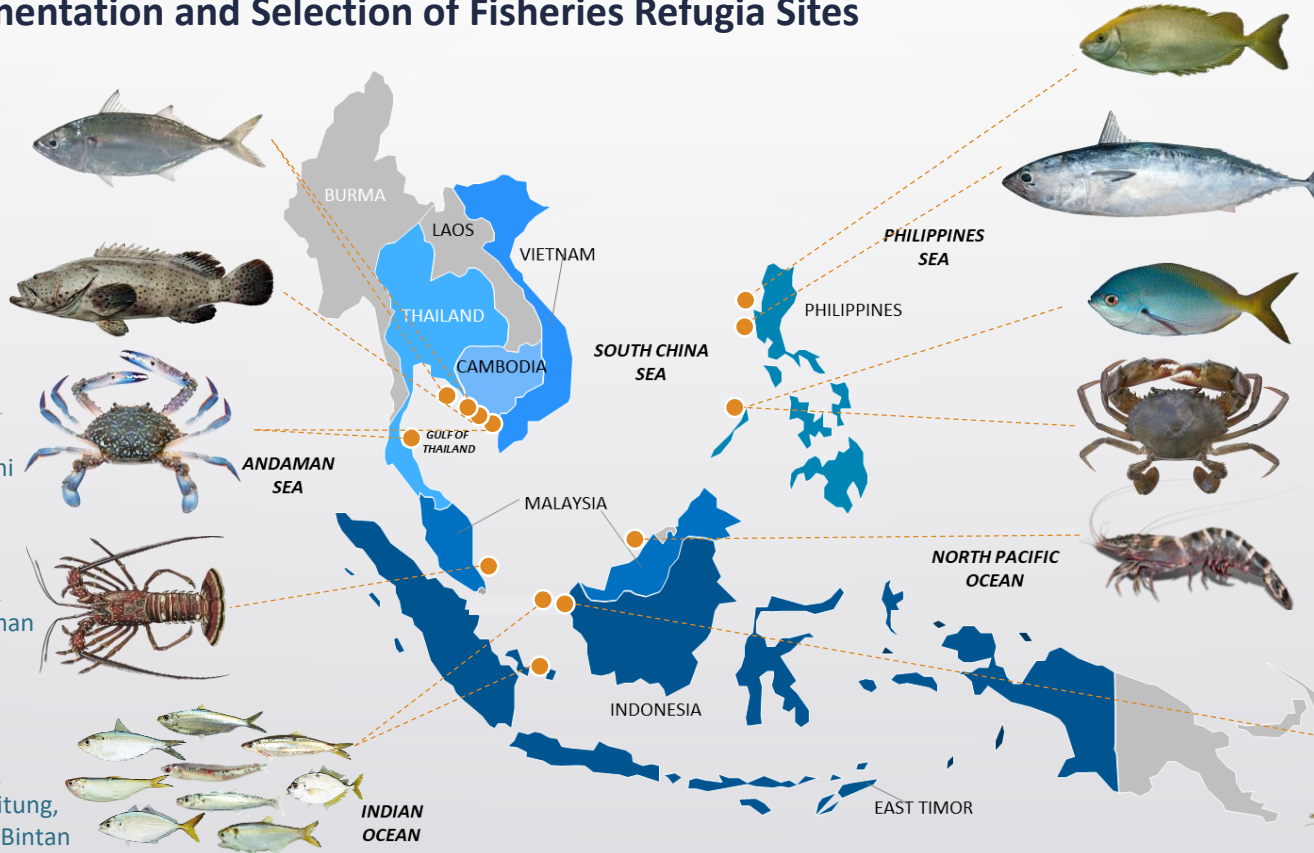
Cambodia: Kep
Thailand: Surat Thani

Spiny Lobster

Malaysia: Tanjung Leman

Small Pelagic Fish

Indonesia: Bangka Belitung,
and Tambelan-Bintan



Rabbit Fish

Philippines: Bolinao

Frigate Tuna

Philippines: Masinloc

Fusilier Fish

Philippines: Coron

Mud Crab

Philippines: Coron

Tiger Prawn

Malaysia: Miri

Penaeid Shrimps

Indonesia: Bengkayang

Progress of national level activities by workplan and timetable

	Activity Description	Cambodia		Malaysia		Philippines		Thailand	
		2017	2018	2017	2018	2017	2018	2017	2018
Component 1: Identification and management of fisheries and critical habitat linkages at fisheries refugia sites in each country									
1.1	Developing fisheries and coastal habitat information and data collection programmes	✓	✓		✓	✓	✓	✓	✓
1.2	Facilitating agreement among stakeholder on the boundary of fisheries <i>refugia</i>	✓	✓		✓		✓		✓
1.3	Developing Community-Based Management Plans for Fisheries <i>refugia</i> sites		✓		✓		✓		✓
1.4	Establishing operational management for Fisheries <i>refugia</i> sites		✓						✓
1.5	Strengthening civil society and community organization participation in the management of fisheries <i>refugia</i> sites								

MAPPING

សេចក្តីសម្រេចលេខ ០៧ ចុះថ្ងៃទី ២៤ ខែ កញ្ញា ឆ្នាំ ២០១៧ របស់ គណៈកម្មាធិការជាតិរៀបចំការប្រកាសតំបន់ស្រោចស្រព



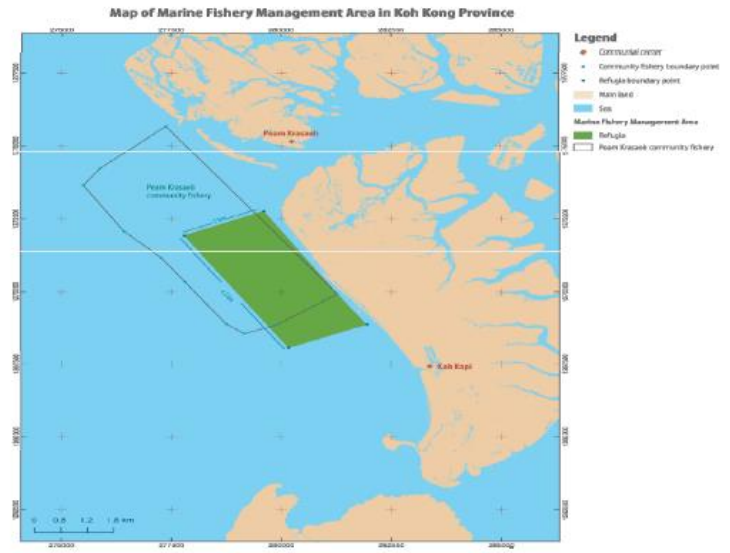
MFMA Map in Kep approved by MAFF's Ministers
Fisheries Refugia for blue swimming crab and Anchovy
cover 417 ha



Draft MFMA Map in Kampot
Grouper Fisheries Refugia cover 868 ha



Draft Map of Mackerel Fisheries Refugia in Koh Kong



Lobster Refugia Data Analysis Workshop, 29-31 May 2018



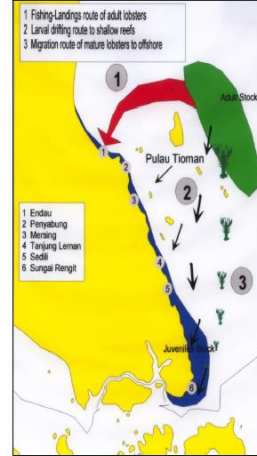
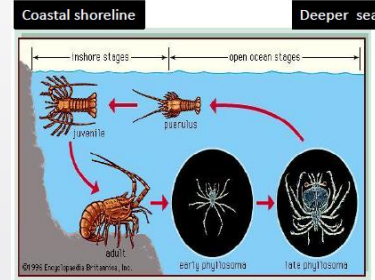
Baru Dinar (1st), Eni Abdul Hary, Mubtashir Ahmad Ar-Raqib, Eni Muhammad Hidayat, Mubtashir, Eni Nurfarida Ch. Sufriana dan Eni Feyen Shara, Dinda dan Idris, @Budi Pratiyanti, @Tuhir @ Maroni, @R. Anwar Manti, @Amir Ruliz, @Dilhor Widayati, @Agung, dan @Din Gusfah @ Roswati

Lobster Study Activities

- Collection of lobster landing data from jetties
- Lobster eggs and maturation observation
- Lobster resource surveys
- Lobster larvae



Lobster migration route (hypothesis)



Source: Alias Man, 2000

Lobster Resource & Larvae Survey, 21-25 Aug 2017 (National Fund)



KK Senangin II
 Type: Fish Stern Trawler
 Length: 26 m
 Tonnage: 177 GRT
 Compliment: 22 persons



Proposed Lobster Resource & Larvae Study – Oct 2018 (National Fund)

Coron Baseline Fisheries Data Collection & Aerial Survey



Bolinao Baseline Fisheries Data Collection & Aerial Survey



Initial Ichthyoplankton Survey in Masinloc Zambales



MONITORING OF SAMPLING ACTIVITIES



Actual fish landing at Binabalian Landing Site, Bolinao, Pangasinan

MONITORING OF SAMPLING ACTIVITIES



	Activity Description	Cambodia		Malaysia		Philippines		Thailand	
		2017	2018	2017	2018	2017	2018	2017	2018
COMPONENT 2: Improving the management of critical habitats for fish stocks of transboundary significance via national actions to strengthen the enabling environment and knowledge-base for fisheries refugia management in each country									
2.1	Enhancing policy guidance for improved management of the effects of fishing on critical habitats						✓		✓
2.2	Defining the policy and legal basis for formal designation and establishment of fisheries refugia in each country		✓						✓
2.3	Development of national guidelines on the establishment and operation of fisheries refugia								✓
2.4	Reforming national policy, legal and planning frameworks for demarcating boundaries and managing refugia								
2.5	Enhancing access to information relating to status and trends in fish stocks and their habitats in each country waters of the SCS				✓		✓		✓
2.6	Improving national-level management and sharing of information and data on fish early life history in each country waters of the SCS				✓		✓		✓
2.7	Enhancing access to information relating to the locations and status of coastal habitats and management areas in each country waters of the SCS								✓
2.8	Strengthening the information base for the planning, monitoring and evaluation of management at priority fisheries refugia sites						✓		✓

Municipal Executive Order for the Refugia Site Management Committee (RSMC) in Bolinao

Office of the Municipal Mayor
www.bolinao.gov.ph

EXECUTIVE ORDER NO. 7, SERIES OF 2017
ORGANIZING THE REFUGIA SITE MANAGEMENT COMMITTEE OF THE MUNICIPALITY OF BOLINAO, PANGASINAN, AND DEFINING ITS FUNCTIONS

WHEREAS, the Philippine Constitution, Article XIV Section 2 (3), states that "the state shall protect the nation's marine wealth in an archipelagic water, territorial sea, and exclusive economic zone, and ensure its use and enjoyment exclusively by its citizens";

WHEREAS, the General Welfare clause of the 1987 Local Government Code provides for the exercise of powers by local government units (LGUs) in order to enhance the right of the people to a balanced ecology and promote self-employment among their residents;

WHEREAS, Republic Act No. 8753 known as the Philippine Fisheries Code of 1998, Chapter 1 Section 2, declares as the policy of the state, "to achieve food security in the mounting dependence in the utilization, management, development, conservation and protection of fishery resources in order to provide the food needs of the population. A flexible policy towards the attainment of food security shall be adopted to support to changes in management needs for fish catching needs in the areas of fish and other aquatic products in domestic and international waters, and the law of supply and demand";

WHEREAS, the Bureau and habitat management of the United Nations Environment Programme-Global Environment Centre (UNEP-GEF) South China Sea Project focus on the critical site that habitats such as mangrove, seagrass, coral reef, and wetland play in sustaining fisheries production in the South China Sea and Gulf of Thailand;

WHEREAS, to establish a Regional System of Fisheries Refugia in the South China Sea (South Philippine Sea) and Gulf of Thailand is the center of the UNDP/GEF Project, the Municipality of Bolinao, Pangasinan, was identified as one among the three LGUs across the Philippines to be provided with technical assistance, monitoring and evaluation support by the Bureau of Fisheries;

WHEREAS, LGU Bolinao recognizes the very objective of the Refugia Project of promoting the environmental habitat of marine life while sustaining the fishery industry which ensures the livelihood of the locality's fisher folk;

WHEREAS, in order to assure the execution of the Refugia Project there is an urgent need to organize the Refugia Site Management Committee;

NOW, THEREFORE, I, ARNOLD B. CELESTE, Municipal Mayor, Municipality of Bolinao, Pangasinan, by virtue of powers vested in me by law, do hereby order:

I. ORGANIZATION AND COMPOSITION

The Refugia Site Management Committee shall be organized as composed of the following:

Chairman:	Municipal Mayor	ARNOLD B. CELESTE
Vice-Chairman:	Mano Vice Mayor	ALFONSO F. CELESTE
Members:	Municipal Agriculturist	CAROLINA RAMIREZ

MEMBERS:

UP ARS BSI Representative	MELCHOR GONZALES
UP MSU Representative	SESTON DOMESTICAN
Defining School of Fisheries Rep.	CECILIA CORONADO
Philippine Coast Guard Rep.	DR. ALFONSO TORAS
MFARMC Representative	POI FERNAND ASPURIA
Fisheries Assoc. Representative	JENEM GABATIN
Porting Managers of Coastal	JOSANGELLE DE VERAZ
Managers Representative	ROBERTO CELESTE
Municipal Administrator	REBEILDA B. DOMAGAS

Members shall be designated in order to ensure the immediate and effective implementation of the project activities as follows:

Mano Vice Mayor	ALFONSO F. CELESTE
SBM Chairman, Committee on Enforcement	SBM JOVEN CAASI
Agri-extension Technician (Alternates of AGRI)	FLORANTE GARCIA
Auditor (AGRI)	MARCIANO GONZALES
UP ARS BSI Representative	SEGUNDA GAMBILAN
UP MSU Representative	JUDY CURIANO, JR.
Bolinaso School of Fisheries Rep.	MARLON TUGARE
Philippine Coast Guard Rep.	SOL JOHN ISRAEL FLORES
MFARMC Representative	JIMMY SARRANAL
Fisheries Assoc. Representative	DOSSADO CABELLO
Porting Managers of Coastal Fisheries Representative	AGUSTIN CAAS

Members shall be designated in order to ensure the immediate and effective implementation of the project activities as follows:

Members shall be designated in order to ensure the immediate and effective implementation of the project activities as follows:

Members shall be designated in order to ensure the immediate and effective implementation of the project activities as follows:

Closed Season Measure in Gulf of Thailand

พื้นที่มาตรการปิดอ่าวไทย ปี ๒๕๖๑

พื้นที่ปิดอ่าวตอนกลาง ประมาณ ๒๗,๐๐๐ ตร.กม.
(พื้นที่มาตรการเพิ่มเติมซึ่งปิดอ่าวในเขตประมาณ ๖ ในทะเล ๕,๓๐๐ ตร.กม.)

พื้นที่ปิดอ่าวประจวบฯ ประมาณ ๒๓,๓๐๐ ตร.กม.
พื้นที่ปิดอ่าว หัว ก ประมาณ ๔,๐๐๐ ตร.กม.
รวมทั้งปิดอ่าวไทยประมาณ ๕๓,๓๐๐ ตร.กม.

มาตรการ	ก.ม.	ส.ก.	น.ก.	พ.ก.	ธ.ก.	อ.ก.	พ.ย.	ธ.ย.	ก.ย.	พ.ย.	หมายเหตุ
ปิดอ่าวตอนกลาง											๓๕ ก.พ.-๓๕ พ.ค. ๒๖ มิ.ย.
มาตรการต่อเนื่อง (รวม ๖ ในทะเล)											๓๖ พ.ค.-๓๕ มิ.ย. ๓๐ วัน
ปิดอ่าวประจวบฯ											๓๖ พ.ค.-๓๕ มิ.ย. ๓๐ วัน
ปิดอ่าวหัว ก เขต ๑											๓๕ มิ.ย.-๓๕ ก.ย. ๓๐ ก.ย.
ปิดอ่าวหัว ก เขต ๒											๓๕ ก.ย.-๓๐ ก.ย. ๓๐ ก.ย.

ปิดอ่าวหัว ก เขต 2 1 ส.ค. ถึง 30 ก.ย. (1,650 ตร.กม.)

ปิดอ่าวหัว ก เขต 1 (2,350 ตร.กม.) 15 มิ.ย. ถึง 15 ส.ค.

อ่าวประจวบฯ ตรีขันธ์ (2,900 ตร.กม.) 16 พ.ค. ถึง 14 มิ.ย.

ห้ามบางส่วนเครื่องมือในพื้นที่เพิ่มเติม วันที่ 16 พ.ค. ถึง 14 มิ.ย. (5,300 ตร.กม.)

ปิดอ่าวตอนกลาง 15 ก.พ. ถึง 15 พ.ค. (27,000 ตร.กม.)

	Activity Description	Cambodia		Malaysia		Philippines		Thailand	
		2017	2018	2017	2018	2017	2018	2017	2018
COMPONENT 3: Information Management and Dissemination in support of national-level implementation of the fisheries refugia concept in each country									
3.1	Enhancing national uptake of best practices in integrating fisheries management and biodiversity conservation				✓		✓		✓
3.2	Improving community acceptance of area based approaches to marine management				✓		✓	✓	✓
3.3	Knowledge generated and experiences from establishing and operating fisheries refugia captured and shared nationally, regionally, and globally						✓		✓



	Activity Description	Cambodia		Malaysia		Philippines		Thailand	
		2017	2018	2017	2018	2017	2018	2017	2018
COMPONENT 4: National coordination for integrated fish stock and critical habitat management in each country									
4.1	Strengthened cross-sectoral coordination in the establishment and operation of fisheries refugia in each country		✓		✓	✓	✓	✓	✓
4.2	Harnessing national scientific and technical expertise and knowledge to inform policy, legal and institutional reforms for fisheries refugia		✓		✓	✓	✓	✓	✓
4.3	Catalyzing local community action via establishment and operation of site-based management boards at priority refugia sites		✓		✓	✓	✓	✓	✓

Coron Site Level Inception Workshop

Date: March 20, 2017
 Venue: Darayonan Lodge, Coron, Palawan
 Participants: 20



*Courtesy call of Fisheries Refugia Management Team to the Municipal Mayor and Sangguniang Bayan Members of Coron, Palawan



Masinloc Site Level Inception Workshop

Date: March 27, 2017
 Venue: Municipal Convention Hall
 Participants: 35



Bolinao Site Level Inception Workshop

Date: March 24, 2017
 Venue: Sangguniang Bayan Session Hall
 Participants: 30



Courtesy call of Fisheries Refugia Management Team to the Municipal Mayor of Bolinao, Pangasinan



Group Photo with BFAR | Regional Director Nestor Domenden & Bolinao Vice-Mayor Alfonso Celeste

**The First Meetings
 of Thailand National Fisheries Refugia Committee
 and Thailand National Scientific and Technical Committee**

22 August 2018
 Bangkok, Thailand



Problem/Request from national level activities raised by member countries

- Mr. Leng Sy Vann from Cambodia seeks the support from Thailand on collaborative works on the Indo-Pacific mackerel to address trans-boundary issue
- Mr. Ryon Siow from DOF Malaysia, raised the issue that the challenges facing in the project implementation are changing of responsible persons of the site-base committee and not so clear understanding of Fisheries *Refugia* concept to explain to the local community level.

Networking and Regional Cooperation raised by PCU

The following studies made by other Donner agencies and program that required of cooperation with are:

1. The Joint Collaborative Research Survey on Fisheries Resources and Marine Environment between Thailand – Cambodia – Vietnam in 2017, 2018:
2. JTF funded SEAFDEC Program support the collaborative Survey to clarify on fish-larvae identification
3. SEAFDEC Sweden Project support on the genetic study to clarify the Indo-pacific mackerel population in the Gulf of Thailand

Networking and Regional Cooperation raised by PCU

4. Possibility to create the cooperation between Malaysia and Brunei Darussalam on Tiger Prawn population study. To support the establishment of Fisheries refugia of Tiger Prawn in Miri, Sarawak State, Malaysia.
5. Possibility to create the cooperation between Philippines and Malaysia on Frigate Tuna as a highly migratory species in the SCS and as a selected target species by fishing community in Masinloc, the Philippines.
6. In addition, the Frigate tuna is one of the Target species managed/studied by the Scientific Working Group for Neritic tunas Stock Assessment established under the ASEAN Framework.

Data and Information for Support Activities

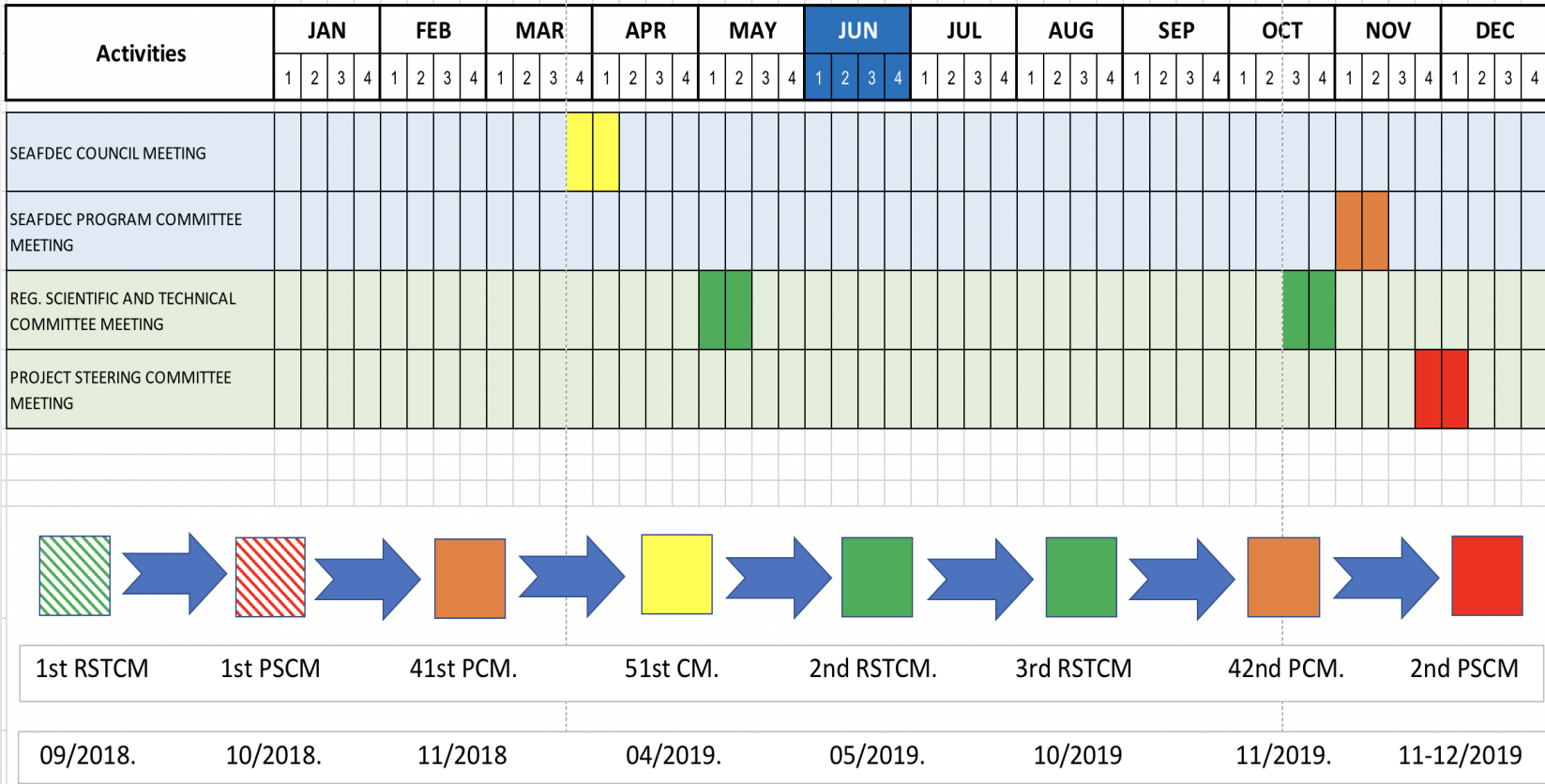


Gender mainstreaming



Socio-economic survey

Proposed Timeline for RSTC Meetings



Action by the Project Steering Committee

- The PSC is invited to seek clarification, suggestion/comments and advise on the report;
- The PSC is also requested to adopt the RSTC Report for further documentation and publication.

the 2nd RSTC meeting was proposed to held at Phú Quốc, Viet Nam in **May 2019**.

The alternate meeting venue will be in Cambodia.

