



**Establishment and Operation of a Regional System of Fisheries *Refugia* in
the South China Sea and Gulf of Thailand**

AGENDA 7

MARINE CAPTURE FISHERIES DATABASE AND DASHBOARD

PCU

INTRODUCTION

- ❖ Fisheries Refugia Approach is aimed to strengthen the integration of fisheries and habitat management
- ❖ In the context of **maintaining fish stock and critical habitats** as satisfying the fishing community, social needs now and future;
- ❖ Key barriers ON REFUGIA IMPLEMENTATION have been identified
 - ✓ Lack of procedures for the demarcation of fisheries *refugia* boundaries
 - ✓ Limited experience in the development and implementation of community-based management plans
 - ✓ Weak national-level policy and planning frameworks for refugia designation and management
 - ✓ Irregular and uncoordinated updates of national and regional information and databases



• OBJECTIVE

- The paper introduces the development of the marine capture fisheries database in Southeast Asia, covering eight AMS in Western Central Pacific (WCPO) and four AMS in Eastern Indian Ocean (EIO) areas.
- The marine capture fisheries data from 1950 to the present are referenced in the FAO Fishery and Aquaculture Statistics "Global capture production 1950-2019" (FishstatJ, 2021), in which 2019 is the latest updated data in 2021.
- To support the national and regional fish stock status analysis. Considering several pelagic and demersal fish are transboundary species concerns, managing fish stock needs not only national but regional stock assessment.

DATABASE AND DASHBOARD

- There are 193 marine species, based on the FAO-ASFIS species list, (see Annex 1).
- Users can access the database via <https://fisheries-refugia.org/> by clicking on the database logo.
- In addition, the Fisheries Refugia dashboard is developed under the same URL link.
- Users can find the interactive graphs displaying the trends of target fish species in weight (tonnes). The dashboard covers nine priority target species for fisheries refugia.

Annex 1: List of ASFIS species in Marine Capture Fisheries Database

Code	ASFIS species (Name)	Code	ASFIS species (Name)
1001	Akiamei paste shrimp	1098	Leopard coral grouper
1002	Albacore	1099	Lobster nei
1003	Abalones nei	1100	Longtail tuna
1004	Anchovies, etc. nei	1101	Mackerels nei
1005	Anadara clams nei	1102	Mangrove red snapper
1006	Aquatic invertebrates nei	1103	Marine crabs nei
1007	Bali sardinella	1104	Marine fishes nei
1008	Banana prawn	1105	Marine molluscs nei
1009	Barracudas nei	1106	Mackerel sharks, porbeagles nei
1010	Barramundi (=Giant seaperch)	1107	Mantas, devil rays nei
1011	Batfishes	1108	Marine crustaceans nei
1012	Bigeye scad	1109	Marine turtles nei
1013	Bigeye tuna	1110	Marlins, sailfishes, etc. nei
1014	Bigeyes nei	1111	Metapenaeus shrimps nei
1015	Bigfin reef squid	1112	Milkfish
1016	Black marlin	1113	Mojarras (=Silver-biddies) nei
1017	Black pomfret	1114	Monocle breams
1018	Blackbanded trevally	1115	Moonfish
1019	Blood cockle	1116	Mulletts nei
1020	Blue mackerel	1117	Narrow-barred Spanish mackerel
1021	Blue marlin	1118	Natantian decapods nei
1022	Blue shark	1119	Needlefishes nei
1023	Blue swimming crab	1120	Octopuses, etc. nei
1024	Bombay-duck	1121	Pacific Chub Mackerel
1025	Bullet tuna	1122	Pelagic percomorphs nei
1026	Butterfishes, pomfrets nei	1123	Penaeus shrimps nei
1027	Carangids nei	1124	Percoids nei
1028	Cephalopods nei	1125	Pickhandle barracuda
1029	Chacunda gizzard shad	1126	Pike-congers nei

Marine Capture Fisheries Databases

SEAFDEC/UNEP/GEF Project on "Establishment and Operation of A Regional System of Fisheries Refugia in the South China Sea and Gulf of Thailand"



Eastern Indian Ocean(EIO) Area

West Central Pacific Ocean (WCPO) Area

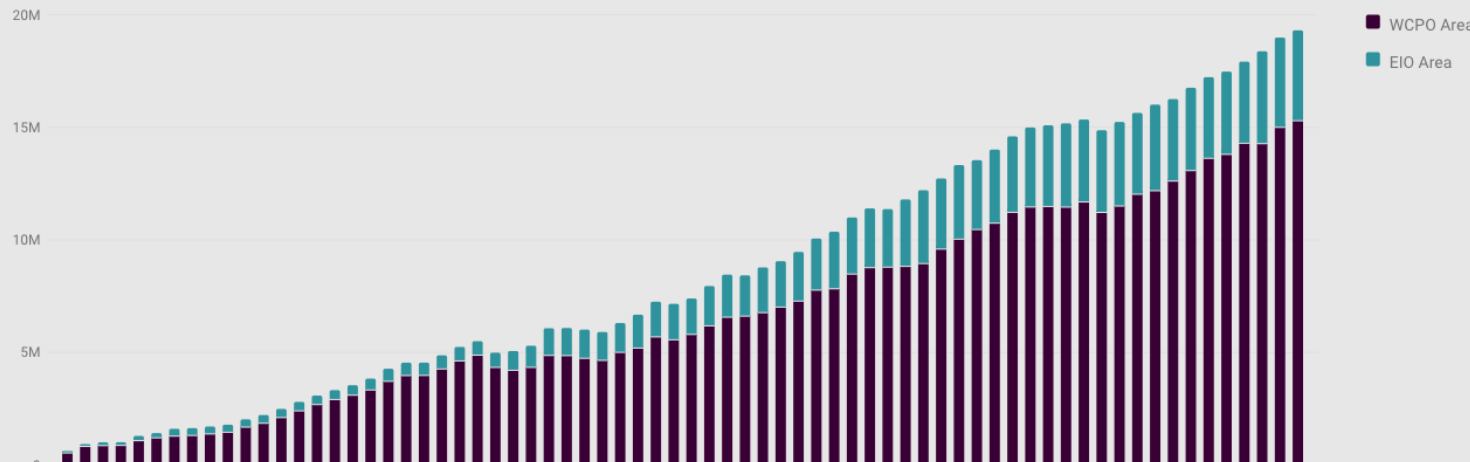
Period Year:

1950 - 2019

Total Marine Fisheries Production in Southeast Asia in 2019 (tonnes):

19,332,391 tonnes

Marine Capture Fisheries Production in the Southeast Asia (WCPO and EIO Areas)



Dashboard

- 1) Overall fisheries productions in the Southeast Asia, covering two areas (WPCO, and EIO Areas).
- 2) Short Mackerel Fisheries Production in Southeast Asia (Tonnes)
- 3) Spiny Lobster Fisheries Production in Southeast Asia (Tonnes)
- 4) Marine Crab nei Fisheries Production in Southeast Asia (Tonnes)
- 5) Fusilliers Fisheries Production in Southeast Asia (Tonnes)
- 6) Rabbitfish nei Fisheries Production in Southeast Asia (Tonnes)
- 7) Anchovies Fisheries Production in Southeast Asia (Tonnes)
- 8) Groupers Fisheries Production in Southeast Asia (Tonnes)
- 9) Penaeus Shrimps Fisheries Production in Southeast Asia (Tonnes)
- 10) Banana Prawn Fisheries Production in Southeast Asia (Tonnes)
- 11) Snapers/Jobfishes Fisheries Production in Southeast Asia (Tonnes)

Suggestions and Comments?