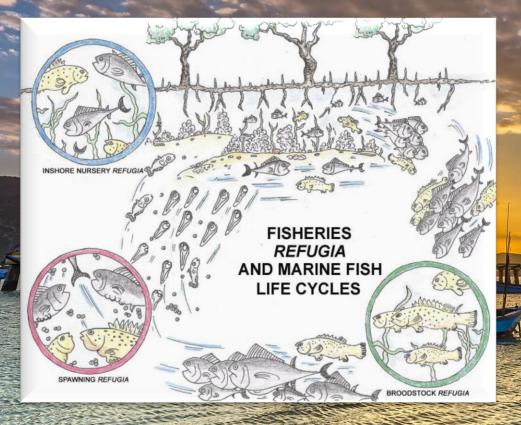
What's Fisheries Refugio Concept ?

Definition of Fisheries *Refugia*



Fisheries *Refugia* are "Spatially and geographically defined, marine or coastal areas in which specific management measures are applied to sustain important species [fisheries resources] during critical phases of their life-cycle, for their sustainable use."

Fisheries Refugia should

1. Not be simply "No Take Zones"



Fisheries *Refugia* should

2. Have the objective of sustainable use for the benefit of present and future generations



 Provide for some areas within refugia to be closed due to their critical importance [essential contribution] to the life cycle of a species or group of species



4.

Fisheries *Refugia* should Focus on areas of critical importance in the life cycle of fished species, including spawning and nursery grounds, or areas of habitat required for the maintenance of brood stock;



5.

Fisheries *Refugia* should

Have different characteristics according to their purposes and the species or species groups for which they are established and within which different management measures will apply

Fisheries *Refugia* should

6. Have management plans.

Experiences in the Uptake of the Fisheries *Refugia* Concept

Use of a concept relevant to stakeholders

Emphasis on sustainable use rather than prohibition of fishing

Focus on fish life-cycle critical habitat linkages



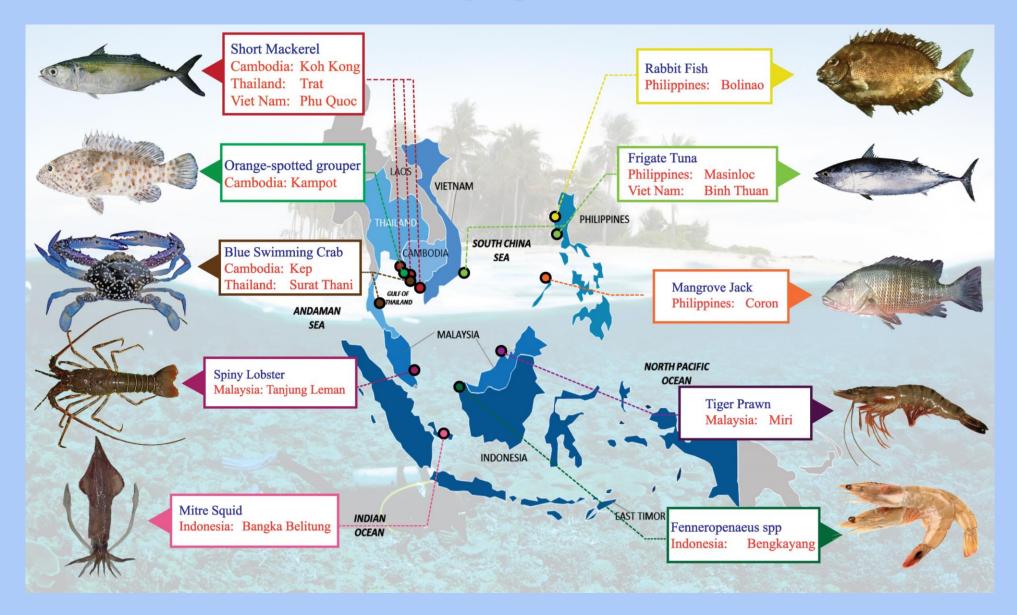
Management Measures that may be Applied within **Fisheries** *Refugia*

- Exclusion of a fishing method (e.g. light luring, purse seine fishing);
- Restricted gears (e.g. mesh size);
- Prohibited gears (e.g. push nets, demersal trawls);
- Vessel size/engine capacity;

Management Measures that may be Applied within **Fisheries** *Refugia*

- Seasonal closures during critical periods of fish life cycles;
- Seasonal restrictions (e.g. use of specific gear that may trap larvae); and
- Limited access and use of rights-based approaches in small-scale fisheries.

15 Priority Fisheries Refugia Sites and Target Species



Source of Information and Reference

- https://fisheries-refugia.org/
- C.J. Paterson et al. Fisheries refugia: a novel approach to integrating fisheries and habitat management in the context of small-scale fishing pressure, Ocean & Coastal Management 85 (2013) 214-229
- UNEP, 2008. Fisheries Refugia as a Tool for Integrated Fisheries and Habitat Management at Phu Quoc Archipelago. South China Sea Lesson Learned Note No. 3, Viet Nam.
- Saikliang, P. (2016). Development of fisheries refugia through closed seasons and areas in the Gulf of Thailand. In H. Kawamura, T. Iwata, Y. Theparoonrat, N. Manajit, & V. T. Sulit (Eds.), Consolidating the Strategies for Fishery Resources Enhancement in Southeast Asia. Proceedings of the Symposium on Strategy for Fisheries Resources Enhancement in the Southeast Asian Region, Pattaya, Thailand, 27-30 July 2015 (pp. 69-75). Samutprakan, Thailand: Training Department, Southeast Asian Fisheries Development Center.