





## **MANAGEMENT OF TRANSBOUNDARY SPECIES:** SHORT MACKEREL and FRIGATE TUNA

Presented by:

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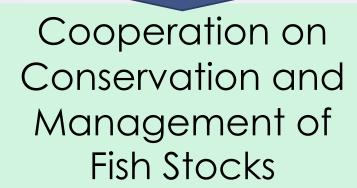


2<sup>nd</sup> Regional Scientific and Technical Committee Meeting for the SEAFDEC/UNEP/GEF Project on Establishment and Operation of a Regional System of Fisheries Refugia in the South China Sea and Gulf of Thailand, Kampot Province, Cambodia 21st – 23rd May 2019

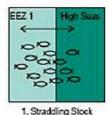
# TRANSBOUNDARY, STRADDLING,

### HIGHLY MIGRATORY

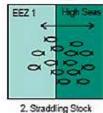
### **FISH STOCKS**



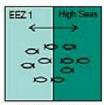
#### Figure A: Straddling and Highly Migratory Fish Stocks



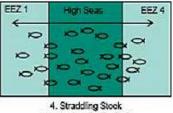
 Straddling Stock (mostly EEZ)



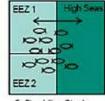
(mostly High Seas)



3. Straddling Stock (evenly distributed)



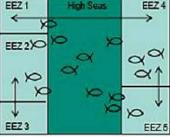
(extensive distribution)



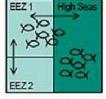
5. Straddling Stock (transboundary)



8. Transboundary, Joint or Shared Stock (Not Stradding)



7. Highly Migratory Stock (Tunas and Tuna-like Species)



8. Highly "Mobile" Migratory Fish Stock



9. Discrete Stock (only High Seas





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# LEVELS OF COOPERATION IN RESOURCE MANAGEMENT AND CONSERVATION

- **The first level**, or what we might term the primary level, consists of cooperation in <u>research alone</u>, without reference to coordinated management programs.
- **The secondary level** "active management" involves, almost by definition, the establishment of <u>coordinated joint management</u> <u>programs</u>. It is required:
  - allocation of harvest shares among the participating states;
  - determination of an optimal management strategy;
  - implementation and enforcement of coordinated management agreements.







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# THE SIGNIFICANCE OF TRANSBOUNDARY FISH STOCKS IN SCS AND GOT LMES

- SEAFDEC-Sweden project has attempted on Development of cooperative Management for transboundary fish stocks:
  - RPOA Neritic Tuna including Frigate tuna in the SEA in 2015
  - Establishment of Scientific Working Group on Stock Assessment: covers all small-pelagic fishes
- Other attempts on short mackerel, anchovy, blue swimming crab and etc.
- Fisheries Refugia for Transboundary Species such as
  - ✓ short mackerel, between Thailand Cambodia EEZs
  - ✓ Frigate Tuna in West coast Philippines, (not yet identify the transboundary area)
  - ✓ Tiger Prawn, in Miri, Sarawak (not yet identify the transboundary area).