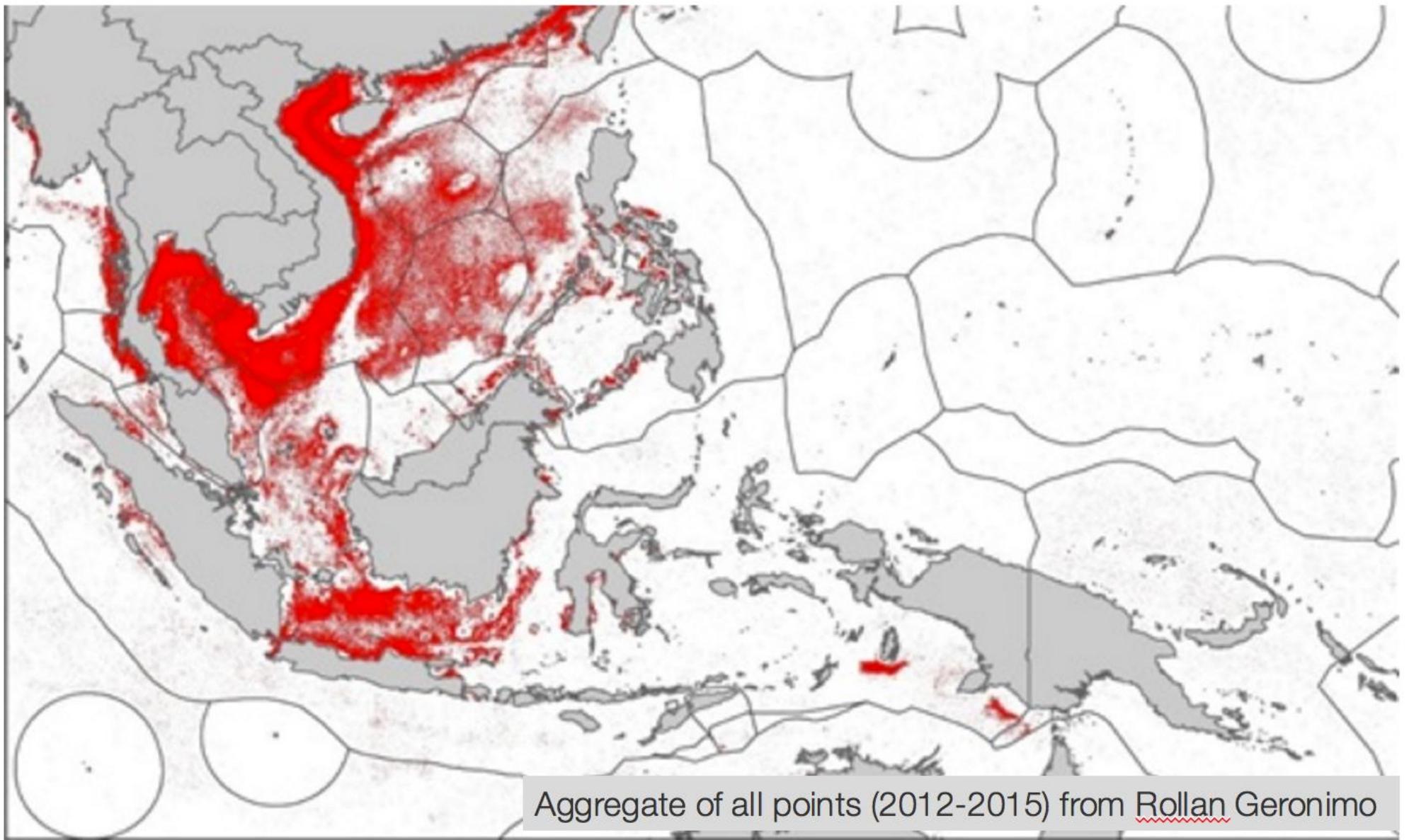




ESTABLISHMENT AND OPERATION OF A REGIONAL SYSTEM OF FISHERIES REFUGIA IN THE SOUTH CHINA SEA AND GULF OF THAILAND



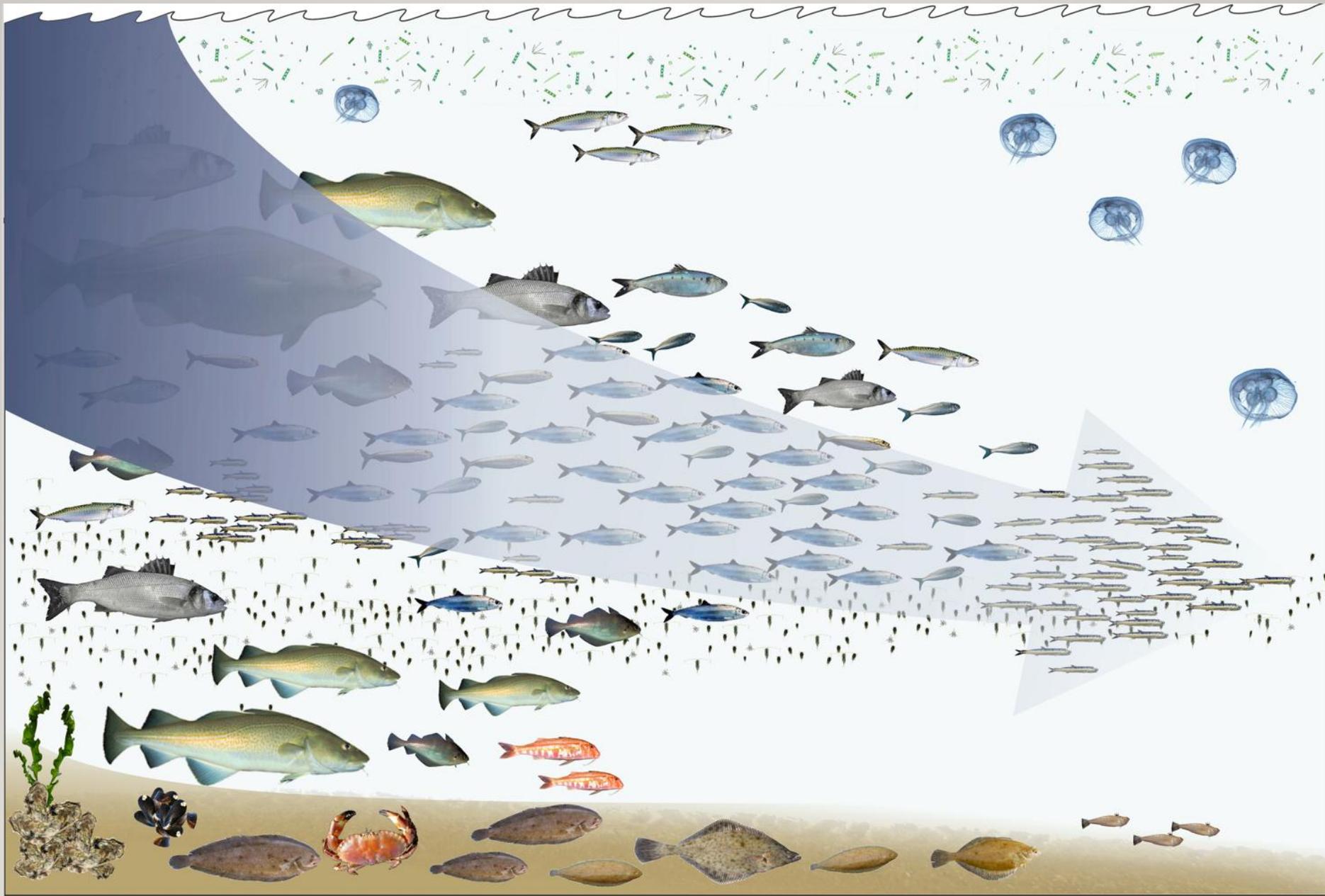
Somboon Siriraksophon and Christopher J. Paterson



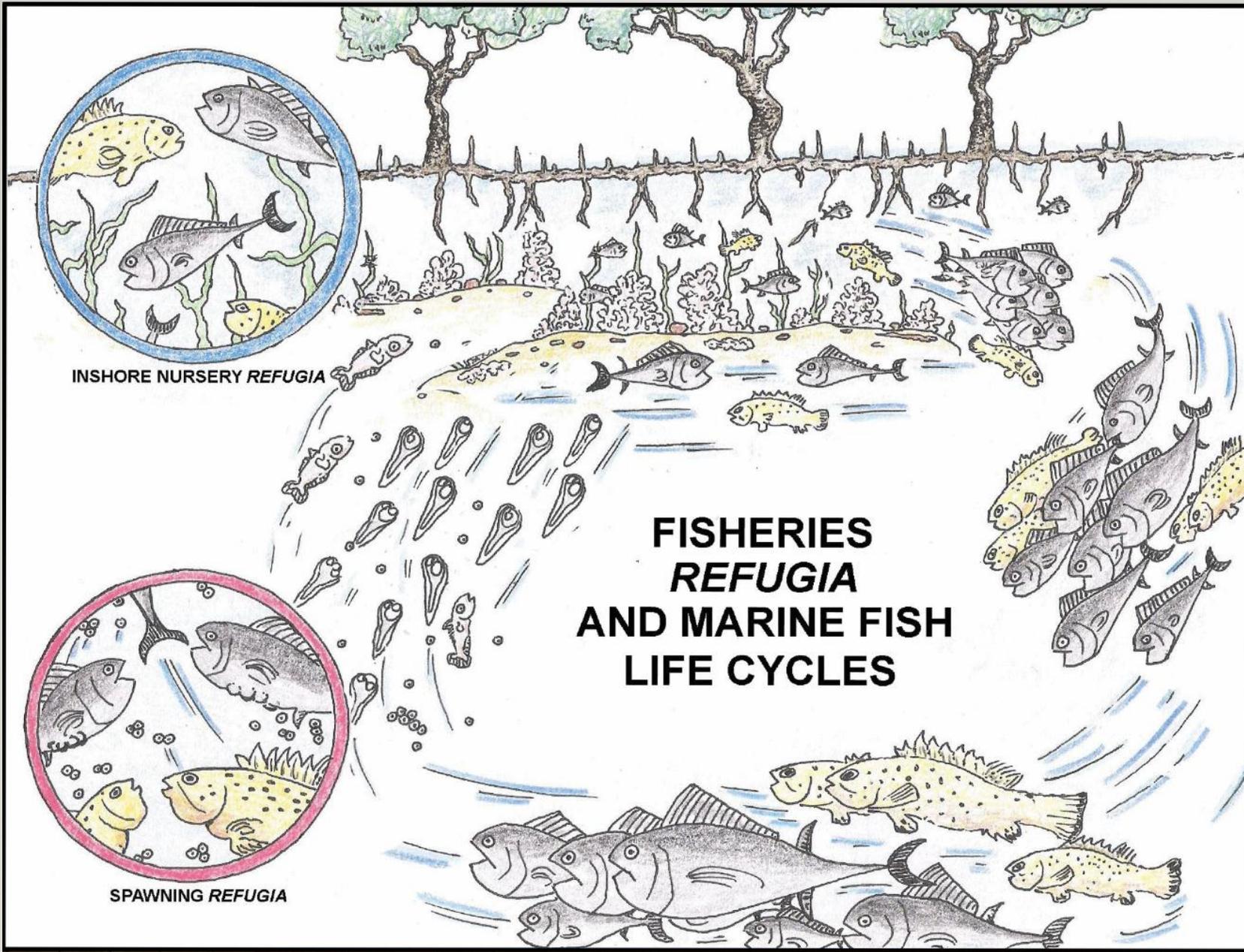
Aggregate of all points (2012-2015) from Rollan Geronimo



In 2014, 1.86 million vessels of which almost 99% are fishing vessels less than 24 meters in length.







INSHORE NURSERY REFUGIA

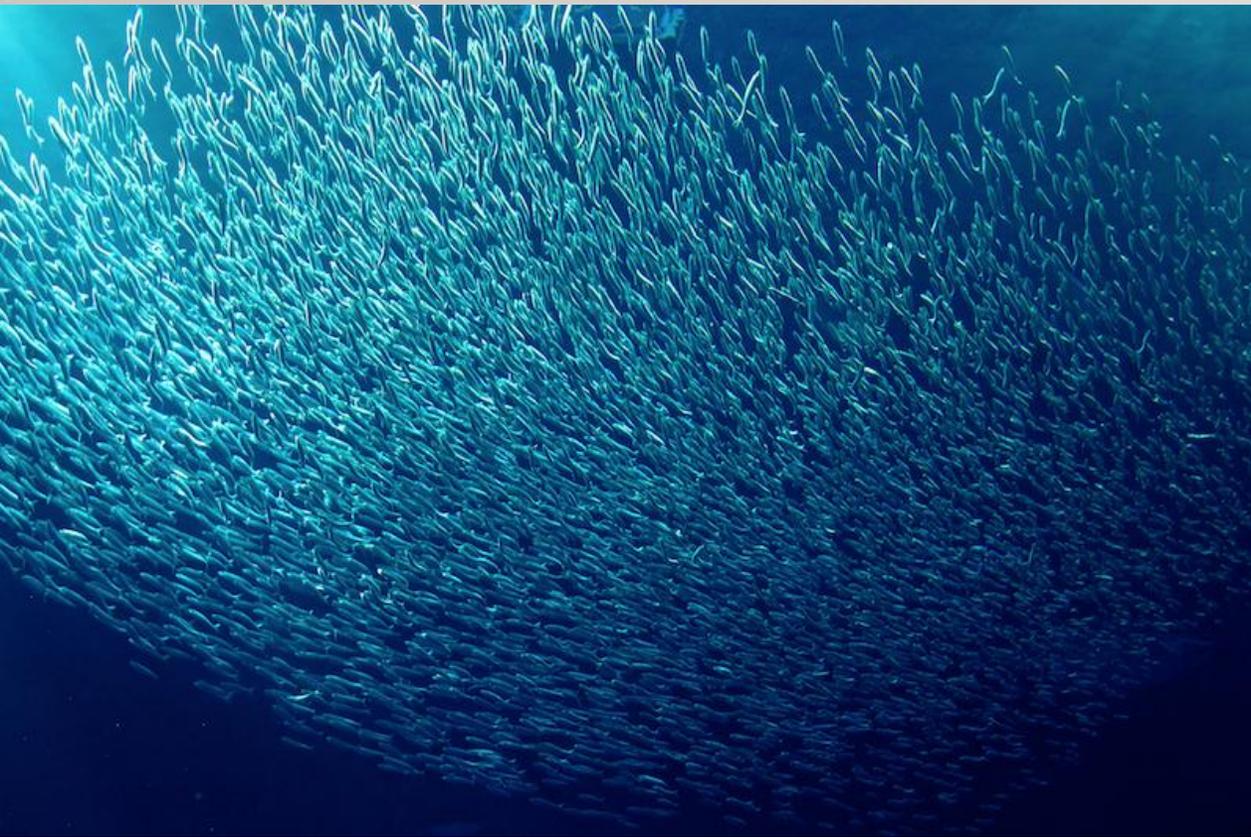
SPAWNING REFUGIA

**FISHERIES
REFUGIA
AND MARINE FISH
LIFE CYCLES**



**Environment
(Habitat)**

Fisheries



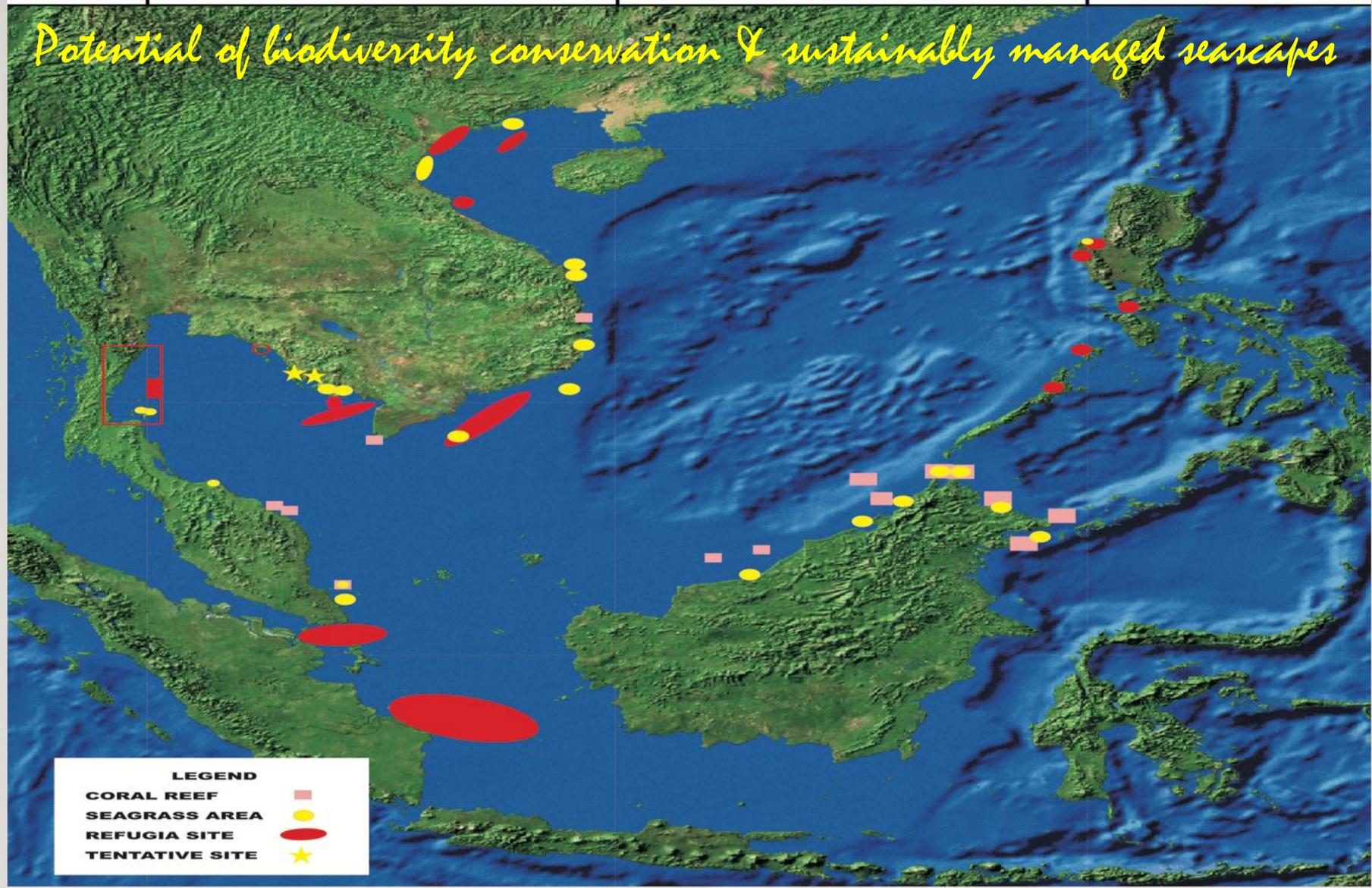


100°E

110°E

120°E

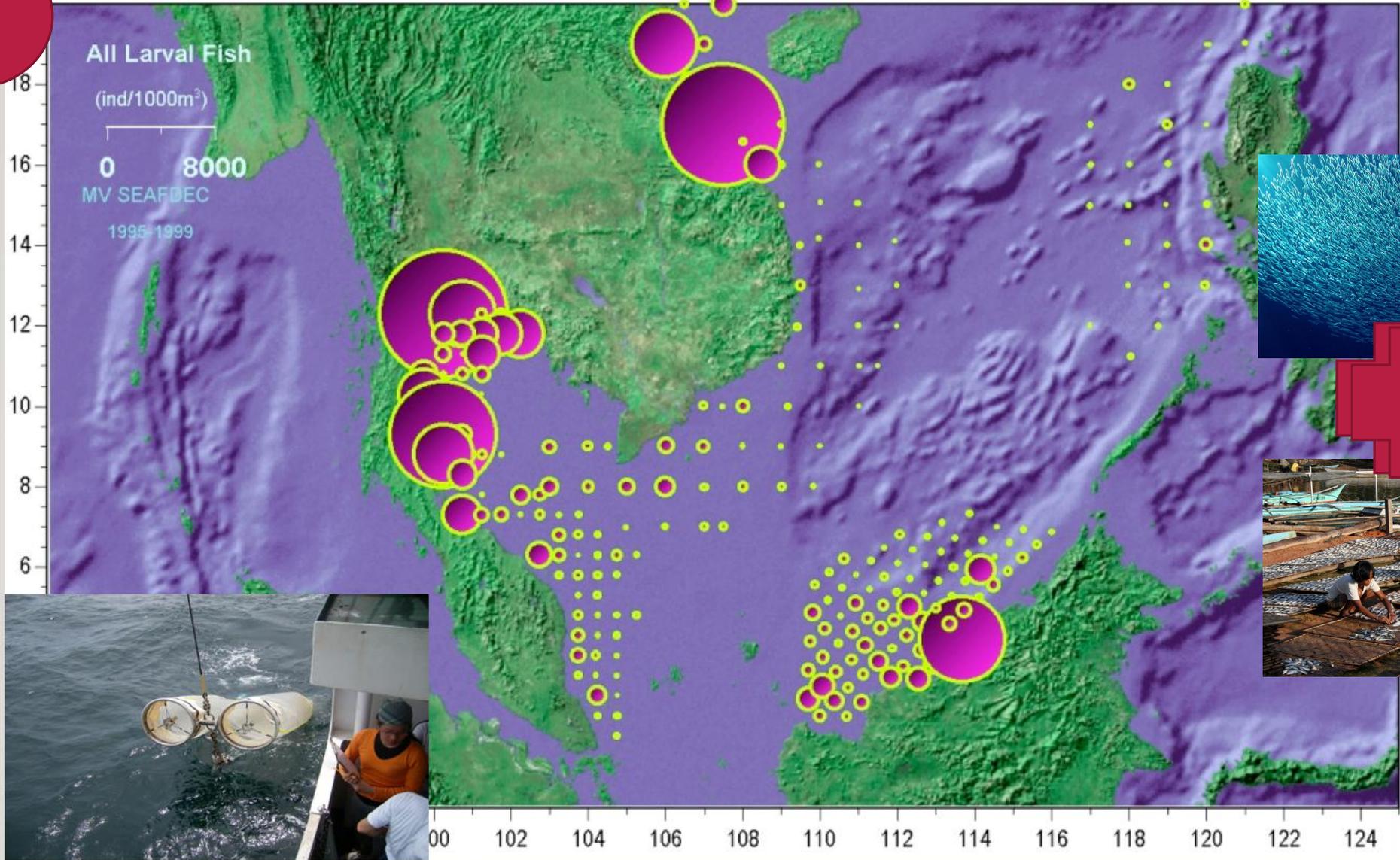
Potential of biodiversity conservation & sustainably managed seascapes



LEGEND

CORAL REEF	■
SEAGRASS AREA	●
REFUGIA SITE	●
TENTATIVE SITE	★

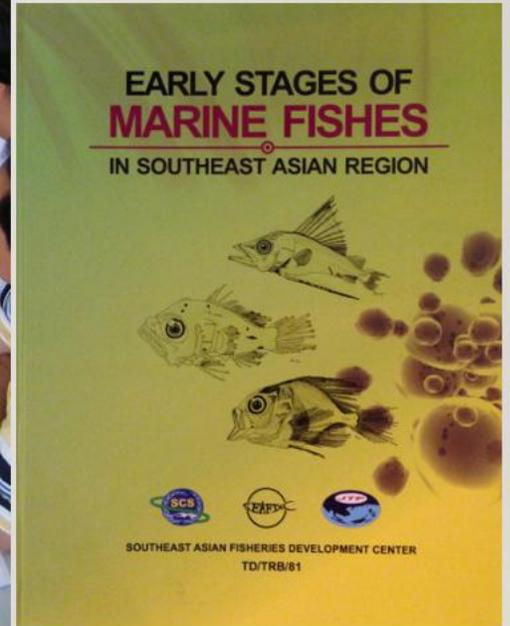
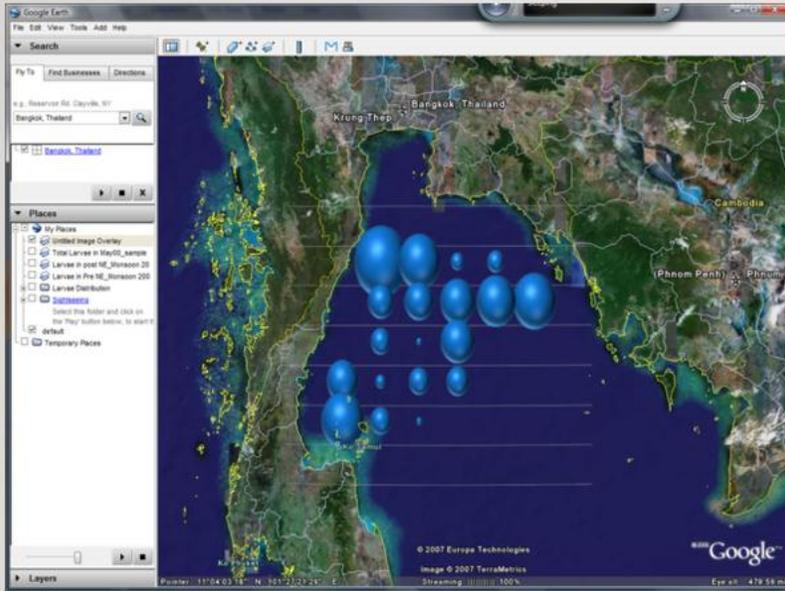
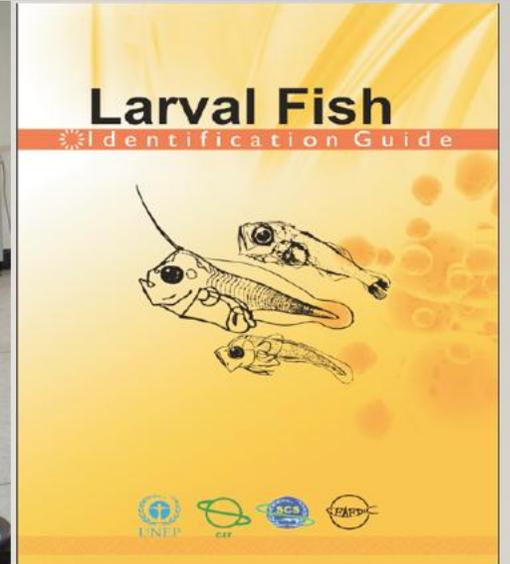
1



2

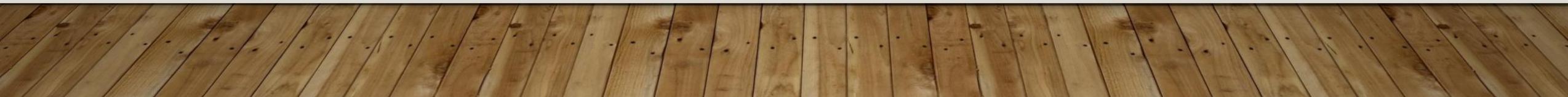


3



4

Strengthen Knowledge Management & Sharing



5

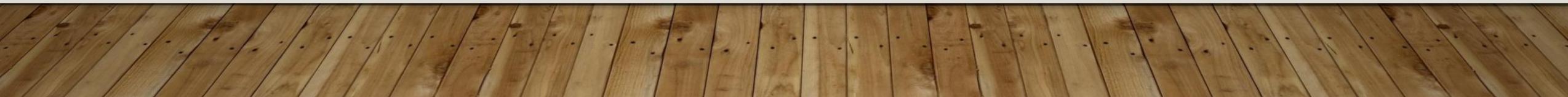
Increased Cost effective and Efficient Coordination



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Spatial Management tools

How Can the Solution be Applied Across Sectors and Regions?





Association of Southeast Asian Nations



Southeast Asian Fisheries Development Center

Regional Guidelines for Responsible Fisheries in Southeast Asia



SUPPLEMENTARY GUIDELINES ON CO-MANAGEMENT USING GROUP USER RIGHTS, FISHERY STATISTICS, INDICATORS AND FISHERIES REFUGIA



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A novel approach to integrating fisheries and habitat management in the context of small-scale fishing pressure

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Small-scale fisheries in the South China Sea, including the Gulf of Thailand, are characterized by high levels of small-scale fishing pressure, coupled with continued decline in the expansion and contraction of the life-cycles of most species, has raised serious concerns regarding the sustainability of Southeast Asian fisheries. This paper reviews the development of a UNEP-led initiative to address the regional need to improve the integration of fisheries management and habitat management in the context of small-scale fishing pressure.

The paper was developed as a novel approach to the identification and design of fisheries refugia in the South China Sea. Specific regional, national and sub-national barriers to integrated management are outlined and discussed in terms of the need for adequate platforms for building partnerships and enhancing fisheries sectors. A successful approach in addressing a significant barrier to the integration of fisheries and habitat management in the context of small-scale fishing pressure is a novel approach to the use of spatial management tools in the South China Sea and replicable in other aquatic ecosystems. The paper is a contribution to the potential global fisheries and biodiversity management at the local level. This is a significant contribution to food security and the maintenance of fishing communities in so substantial.

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The South China Sea, including the Gulf of Thailand, is a global biodiversity hotspot that supports important to the food security and

Results during the preparation process