



The South China Sea Fisheries *Refugia* Project: Fish Life-Cycle and Critical Habitat Linkages

Life - History Phase	Known Habitat/ Critical Area	Threat
Early - life history	Ocean water (20-30 m) (Muddy/Sandy/Rocky)	Filtering Predation (Cable, Manta Ray)
Juvenile	Kampot Seagrass (Cambodia) Koh Chang Strait & Trat Bay (Thailand) Mangrove / Lagoon / Seagrass	Mangrove Deforestation
Pre - recruit	Seagrass → Salty water (25-30 ppt)	Shrimp gosh-net Dug-net
Adult	Deep water (20-30 m) (Muddy/Sandy/Rocky)	Shrimp
Spawning	West Kalimantan (Indonesia) (June - July) Koh Chang Strait & Trat Bay (Thailand)	Trawl fishing

(Oceanic water)



กุ้งกุลาดำ Giant tiger prawn
Penaeus monodon

Giant tiger prawn (*Penaeus monodon*)

Activity descriptor: Identifying fisheries *refugia* requires an understanding of the critical linkages between the life-cycles of fish species and their habitats. This inception workshop activity aims to stimulate discussion among participants of the fisheries *refugia* concept and benchmark our collective understanding of how economically important species utilize coastal and marine areas at various stages of their life-cycles. Participants are also invited to identify any known threats to fish life-cycle and habitat linkages for the species they have been assigned.