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# 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	mangrove, estuary	mangrove water pollution destruction Predator
Juvenile	reef flats, tidepools and mangrove estuaries	cyanide/illegal fishing reef destruction Seedling collection
Pre - recruit	open water and coral reef	Pollution illegal fishing
Adult	open water and coral reef	over fishing coral bleaching global warming
Spawning	open water and coral reef	coral reef destruction illegal fishing destructive gear



= Arabian groupers  
grows up to 75 cm  
in length.  
a group of black  
spots can be seen  
on the body

Greasy grouper (*Epinephelus tauvina*)

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**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.

- not responsible  
behaviors  
recreation  
commercial