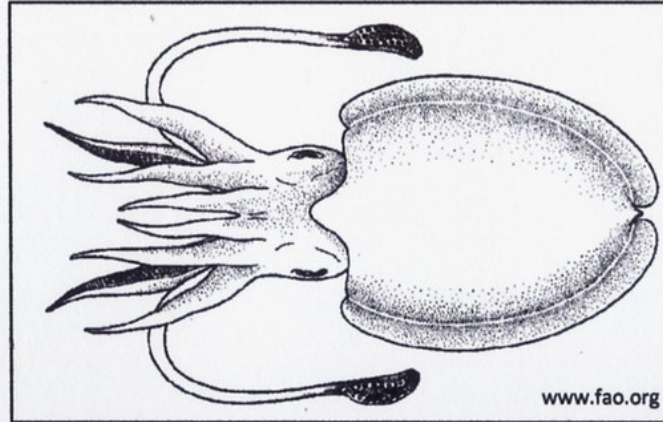




The South China Sea Fisheries *Refugia* Project: Fish Life-Cycle and Critical Habitat Linkages

Life – History Phase	Known Habitat/ Critical Area	Threat
Early – life history	mid column coastal, mangrove	predators Ocean acidification high pCO ₂ concentrations cuttle fishes actually
Juvenile	demersal sp. Continental shelf	lay down a denser cuttlebone which is likely to negatively affect buoyancy regulation
Pre - recruit	10-110m depth	- climate change → increase temperature
Adult	demersal sp.	Commercial fisheries & mixed species trawls / trap → variety of gear
Spawning	all year - 2 peaks in (Got) → Nov - Feb → July - Sep	→

spawn



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Curvespine cuttlefish (*Sepia recurvirostra*)

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.