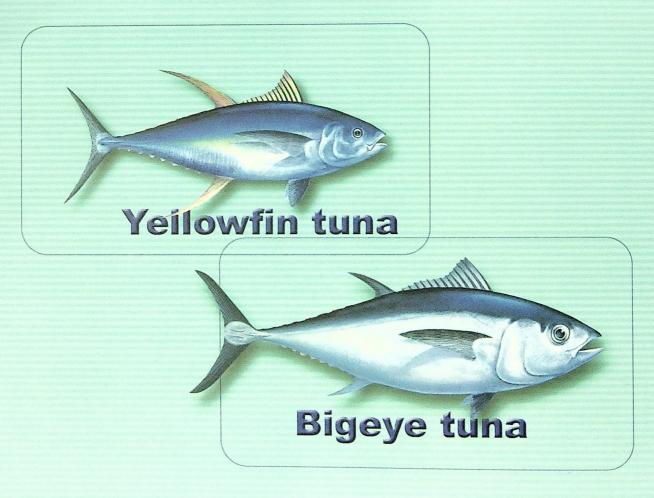


### INTRODUCTION

Pulau Layang Layang waters is known as a nursery ground for Yellowfin tuna (*Thunnus albacares*) and Bigeye tuna (*Thunnus obesus*). Juveniles of the species are abundant in the area from January to September.



These species have great potential for aquaculture since the individuals can grow to more than 50 kg. Studies have been conducted to catch live juveniles of these species in waters of Pulau Layang Layang to promote the area as a source of seed supply for the industry.

# PROCESS OF CATCHING LIVE UVENILE TUNA

The catching of live juvenile tuna involves four steps:

- 1. Installation of payao
- 2. Fishing of live juvenile tuna by purse seine
- 3. Transferring of live juvenile tuna into towing cage
- 4. Towing of live juvenile tuna to culture ground and transferring them into acclimatization or rearing cages

#### INSTALLATION OF

Layang Layang, to

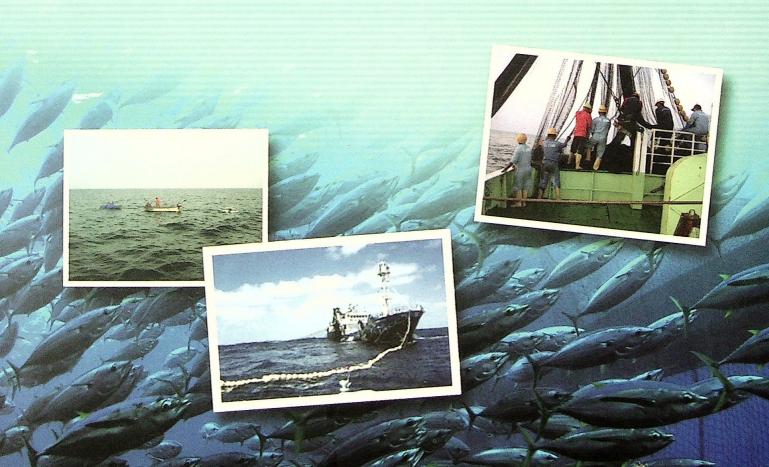
Payao is installed a few days prior fishing at about 15 nm off Pulau

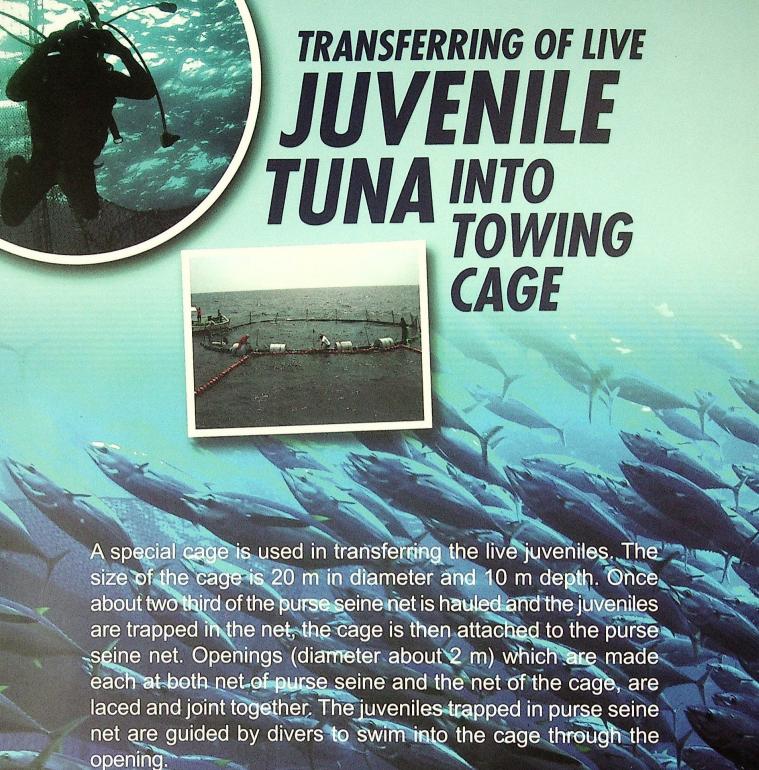
aggregate juvenile tuna. Components of payao comprise of a raft made of PVC drum, an attractant made of coconut leaves, an anchor line made of PP rope about 2 km in length and sinkers made of two drums filled with concrete cement, are released into the water in sequence. Vessel K.K SENANGIN II is deployed in the installation of payao.



### FISHING OF LIVE JUVENILE TUNA BY PURSE SEINE

Fishing operation by purse seine is conducted at night. Vessel K.L CERMIN is deployed in the fishing operations. Light rafts are attached to payao to concentrate the aggregation of juvenile tuna. The lit rafts are then allowed to drift away from the payao. This makes the aggregated juveniles swim away from payao and follow the lit rafts. The purse seine net is then shot encircling the lit rafts and juveniles.







## TOWING AND TRANSFERRING SEAFDECT LIVE JUVENILE TUNA INTO THE ACCLIMATIZATION/ REARING CAGE

The cage containing live juvenile tuna is towed at a speed of 1 knot to the culture ground. The condition of the juveniles are monitored during the towing. The juveniles are then transferred into the acclimatization/rearing cage by applying the same method of transferring. The openings which are made in both cages are attached and laced together. The live juveniles are then guided in by divers to enter the acclimatization/rearing cage.



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