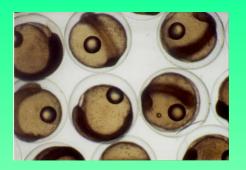
Overview

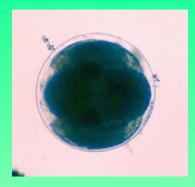
(Marine Culture)

Dr. Majid Makky Taher





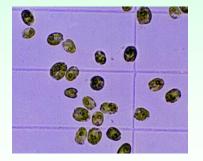


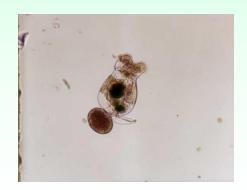




Reproduction (Hatcheries) Artificial Breeding









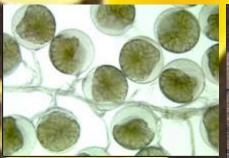
Life Cycle of any reproduced animal is very important Crab as example























Culture Designs

1- Ponds 2- Cages 3-Pins 4- Coastal Enclosures 5- Bath-Ways 6-Closed Systems



Earthen, Concrete, Plastic, Fiberglass etc.

Different Shapes

Earthen Ponds



Circular Fiberglass Ponds

Different Fiberglass Ponds





Concrete Ponds







Circular Plastic Pond



Cages (Singing and Floating) Shapes (Circular, Square, etc)





Coastal Enclosures



Culture History

In China Before 4000 years

Give any person one fish (feeding for one day)

Learn him how cultivate this fish (feeding for ever)

The beginning by cultivating fishes in rice fields

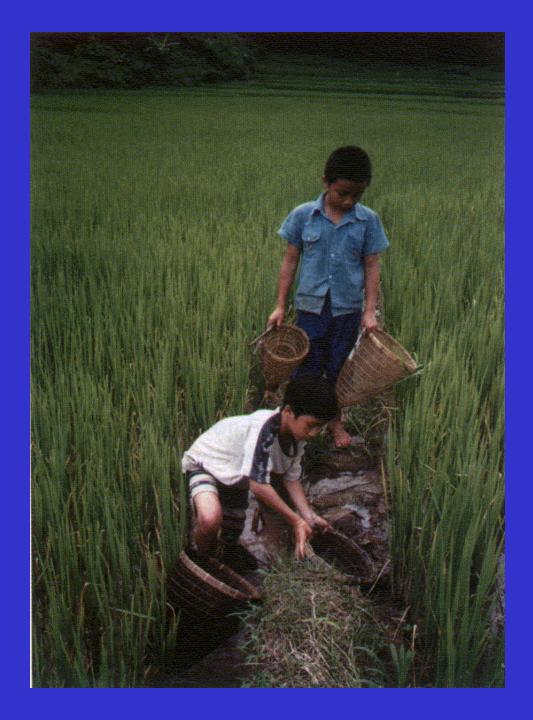
Till now using this technique in Southeast Asia Countries especially for producing fingerlings or small fishes (50-150) g

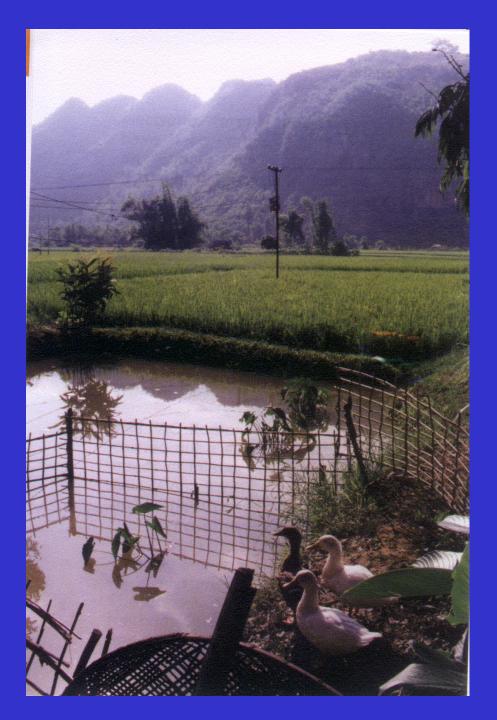


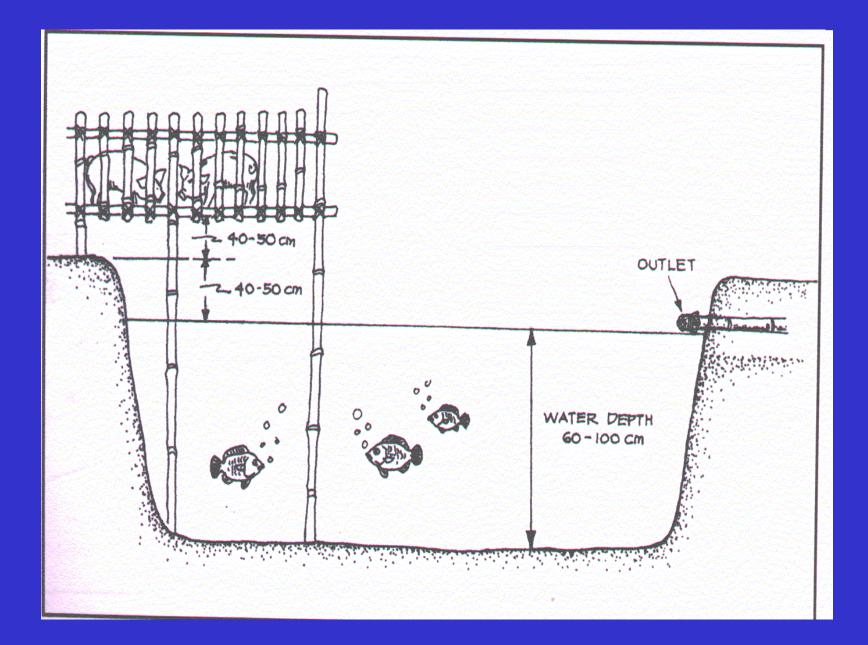
Benefits of Aquaculture

1- Food Source More than 30% of aquatic animals from aquaculture

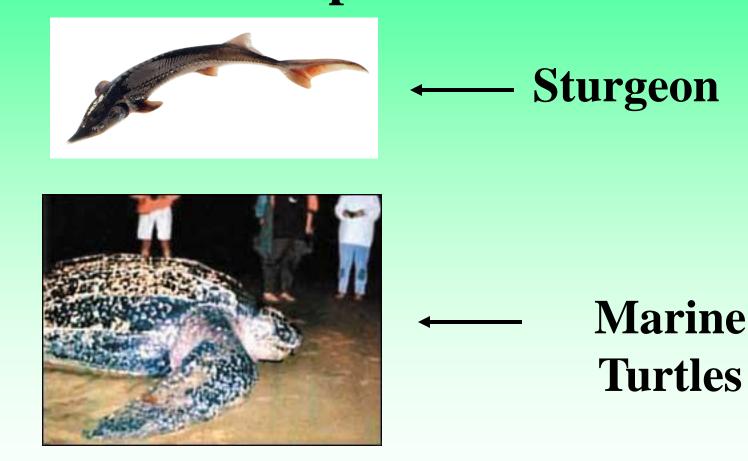








3-Conservation of some threatened species



4- Presence of fresh fishes all time of the year for consumers

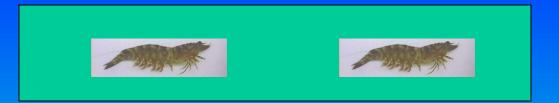


5- Increasing of natural fish stock by releasing fingerlings of important fishes





Culture Systems

















3-Intensive System

4-Highly Intensive System



Extensive	Semi- Intensive	Intensive	Highly Intensive
Little Cost	Medium Cost	High Cost	Very High Cost
Intensive distance	Medium distance	Little distance	Very little distance
Natural food	Natural and artificial foods	Artificial foods	High value artificial food
Little production	Medium production	High production	Very High production
Poor reward	Medium reward	High reward	Very high reward

Environmental Effects of Aquaculture

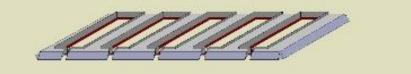
1-Destroying of Mangrove

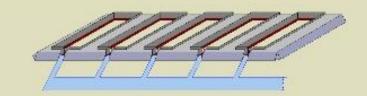


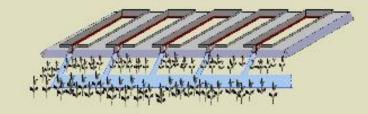
2- Eutrophication











3- Escapement of reared species to the environment

4- Hormones and anti-oxidation and antibiotics in artificial foods

ASHI

5- Increasing problems with fishermen (they want fishing near floating cages to catch natural fishes collected out nets to fed on artificial food)