

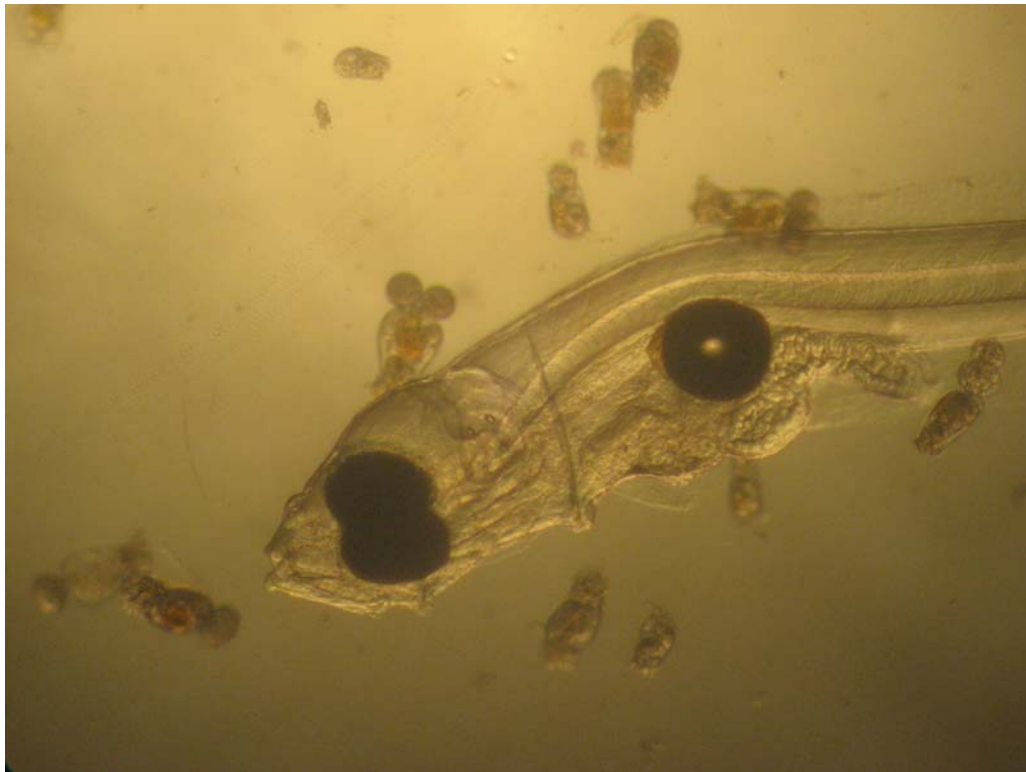


STAC

SEPANG TODAY AQUACULTURE CENTRE

(NS0031400-X)

Marble Goby (*Oxyeleotris marmoratus*) Breeding and Farming Course



Marble Goby

Breeding and Farming Course

Course contents:

1. Biology and ecology of Marble Goby.
 - a. Reproduction Biology of Marble goby
 - b. Mating, breeding and egg deposition

2. Farm design and set up
 - a. Pond, tank, and hapa net
 - b. Bio-filter design and aquaponics system

3. Method of farming and hatchery operation
 - a. Green House HDPE Mesocosm System
 - b. Floating cage farming

4. Pond and tank ecosystem
 - a. Balanced ecosystem and pond dynamics
 - b. Chemical factors, biological factors, and physical factors.
 - c. Water sources and treatment

5. Chemicals used and dosage of application

- a. ppm, mg/l , ppt and etc.
- b. Lime and liming (Burnt lime, hydrated lime, agriculture lime and etc.
- c. Chlorine powder, Formalin, Iodine, Hydrogen Peroxide
- d. Fertilizers :organic and inorganic

6. Water test kits ,microscope and instrument application

- a. pH meter ,pH universal solution,pH soil tester.
- b. Alkalinity tester, iron tester, chlorine tester, Ammonia tester and etc.

7. Feed and feeding

- a. Culture of live feed
- b. Artemia, rotifer, paramecium, copepod, moina and etc.
- c. Culture of green algae

8. Harvest and packing for sale

9. Production cost and analysis

10. Disease, pests and control
 - a. Virus, bacteria, fungus, protozoa, flat worm and lice
 - b. Insects; dragon fly, water beetle, and etc.

11. Assessment test and Q&A
 - a. Field practical works for testing: pH, D.O., iron ammonia test and etc.

 - a. Use of microscope for plankton identification
 - b. Practical work for induced hormone, culture of algae and rotifer



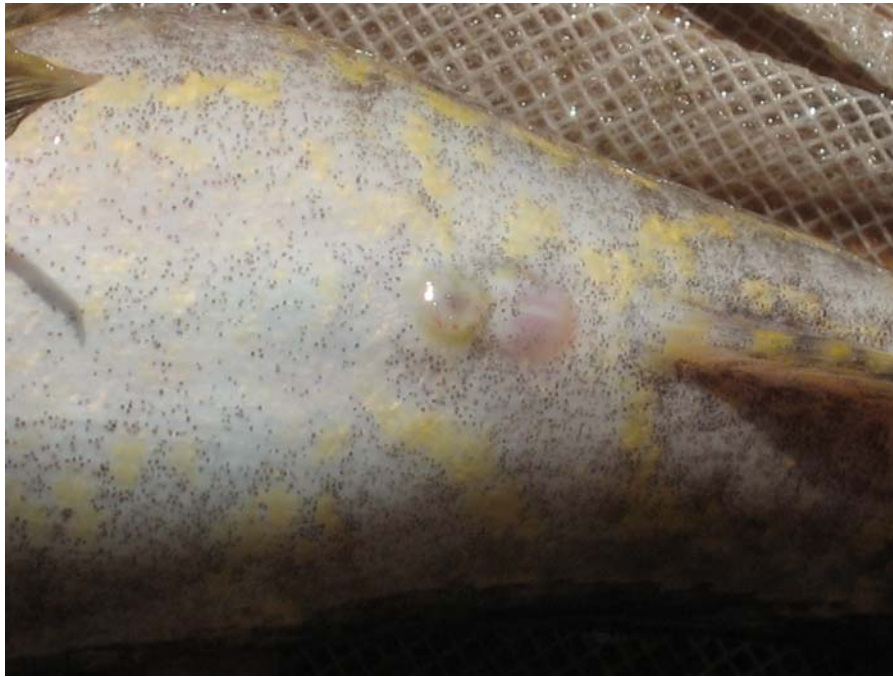
Dissection of Marble Goby-Ovary of mature female Marble Goby.



Mature testis of male Marble goby



3 month-old Marble Goby fish fries ready for sale/stocking



Female Marble Goby



Adult Marble Goby



Adult Marble Goby



Raising Marble Goby in recycling tank



Fertilized eggs of Marble Goby deposited on PVC pipe



Development of embryo from fertilized eggs of Marble Goby seen under microscope



Hatching of Marble Goby egg
(head of larvae emerged from egg)



Day-old Marble Goby larvae



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