

# **Marine Fish Culture in UAE**

**Dr. Majid Makky Taher**

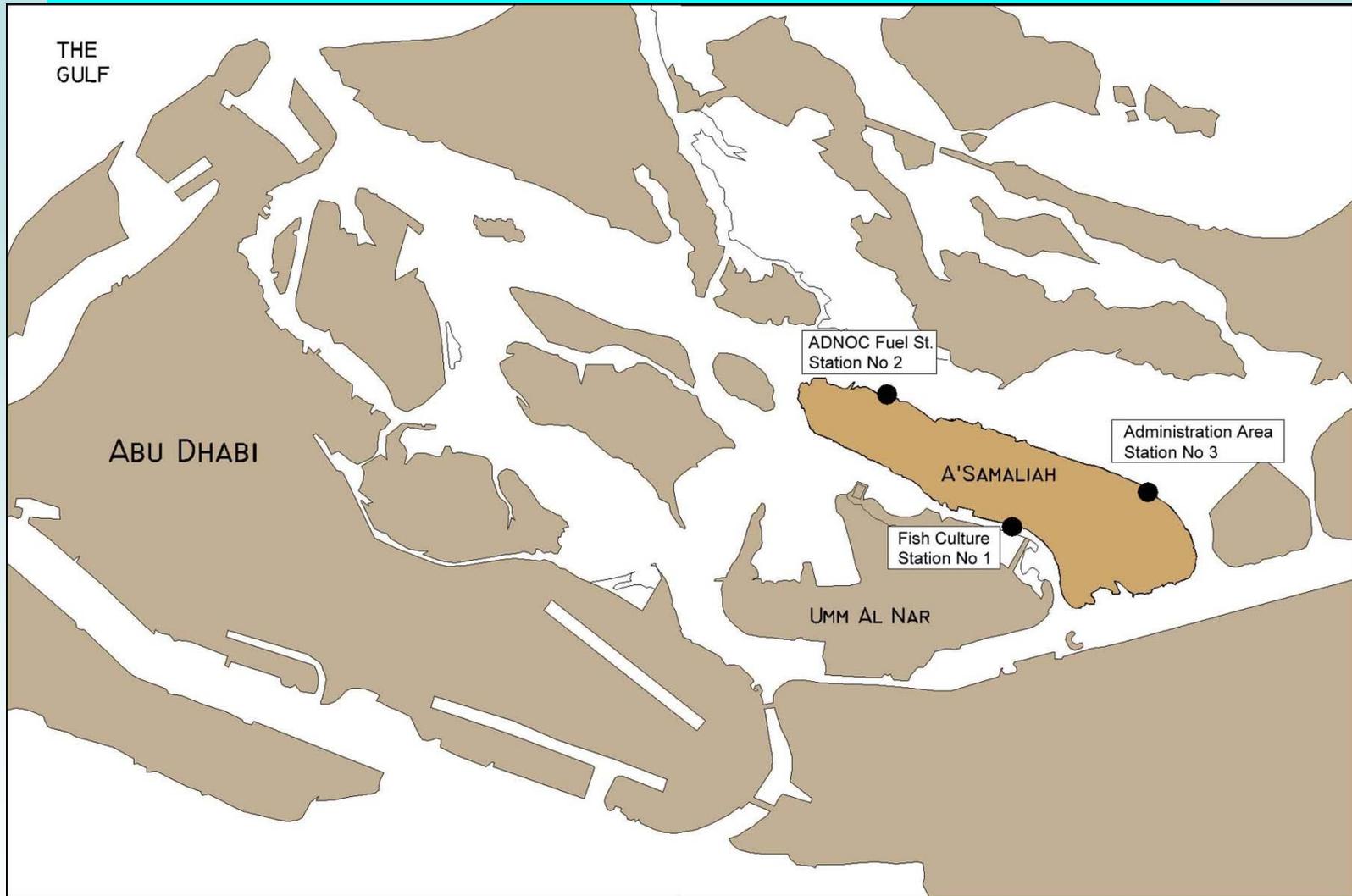
**UAE water have same characteristics of Arabian Gulf water (depths are consist of sand or clay or sand and clay, high water temperature due to their location of tropical and subtropical regions)**

**Previous characteristics are lead to high primary production for phytoplankton, algae and three species sea weeds, that leads to high secondary production especially fish production**

**Fish Resources Assessment Survey Project of Abu Dhabi and UAE Waters (2003) presented by The Environmental Research and Wildlife Development Agency Abu Dhabi (ERWDA)**

**Previous survey recording 250 species and lasted between February, 2002 to January 2003 using trawl nets (Kuffa), traps (Karkors) and research vessel “Flinders”**

# Fish Farms in Samalliah Island



**This Island located between 54 longitude and 24 latitude, far away 12 km from Abu Dhabi with 13 square km distance**

**Samalliah Island is an protected area have many animals such as birds, gazelle, marine turtles**



# Some kinds of birds hatched and reared in the Island



# Samalliah Island is an heritage Island for different activities such as riding camels and horses, shooting area and sailing boats



# Floating cages in Samalliah Island



# Small cages and mechanical feeders



# Fish species reared in Samalliah Island

*Pomacanthus maculosus*

Yellow-marked butterflyfish



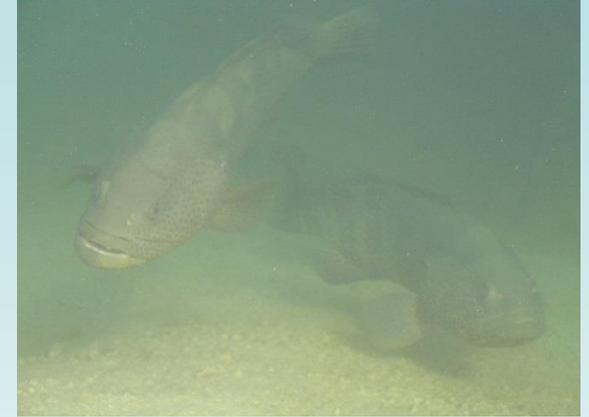
*Lutjanus argentimaculatus*

Mangrove red snaper



*Epinephelus malabaricus*

Malabar grouper



*Liza macrolepis* (Largescale mullet)

*Valamugil seheli* (Blue-spot mullet)



*Sparidentax hasta*

Sobaity seabream



***Acanthopagrus bifasciatus***

**Two-bar seabream**



***Gnathanodon speciosus***

**Golden trevally**



***Lethrinus nebulosus***

**Spangled emperor**



***Gerres oyena***

**Common silver-biddy**



***Lethrinus lentjan***

**Redspot emperor**



***Siganus canaliculatus***

**White-spotted rabbitfish**



***Lutjanus ehrenbergi***

**Blackspot snapper**



***Abdefduf saxatilis***

**Sergeant major**



***Scomberoides commersonianus***

**Talang queenfish**



***Acanthopagrus arabicus***

**Yellowfin seabream**



***Plectorhinchus sordidus***

**Sordid rubberlips**



# Location of fiberglass ponds (sea view)



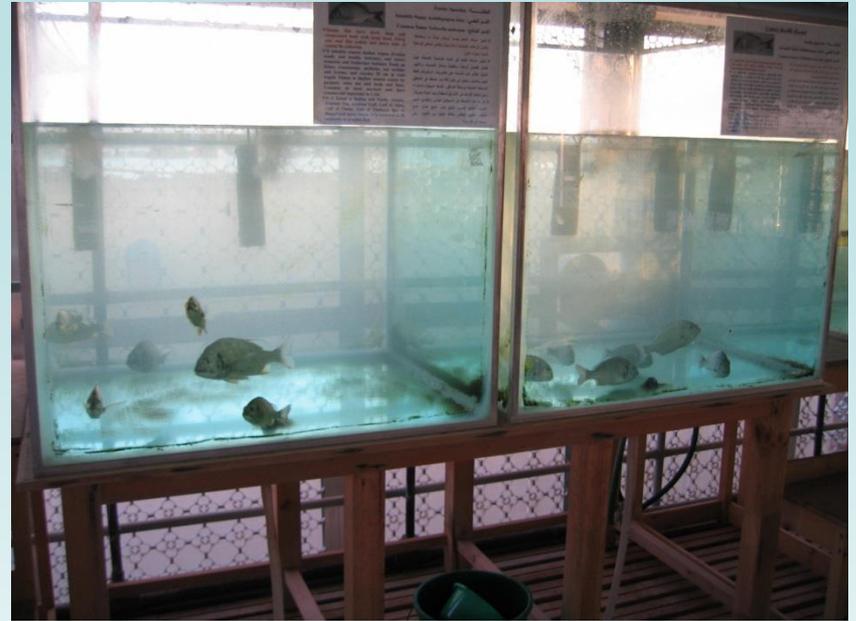
# Location of fiberglass ponds (land view)



# Fiberglass ponds, shading water stocking tanks, water pumping



# Exhibition of life fishes



# Fish laboratory



# Experiment of lethal temperature for five local species



# Experiment of effects of protein levels on growth and food conversion of sobaity seabream



# Some species cached from water surrounding S. I.



أسماك الذئبة (Seabream)  
Family: Gerresidae  
Scientific Name: *Gerres niloticus*  
Common Name: Longtail silver-babbler

أسماك الزيم البحري (Seabream)  
Family: Sparidae  
Scientific Name: *Sparus aurata*  
Common Name: Gilthead seabream

أسماك البطحاء (Seabream)  
Family: Platycephalidae  
Scientific Name: *Platycephalus indicus*  
Common Name: Bartial flathead

أسماك البطحاء (Seabream)  
Family: Mugilidae  
Scientific Name: *Yalaichthys niloticus*  
Common Name: Nile tilapia

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Family: Gerresidae  
Scientific Name: *Gerres niloticus*  
Common Name: Longtail silver-babbler

أسماك البطحاء (Seabream)  
Scientific Name: *Trachurus mediterraneus*  
Common Name: Sea bream

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Scientific Name: *Trachurus mediterraneus*  
Common Name: Sea bream

أسماك البطحاء (Seabream)  
Scientific Name: *Acanthopagrus latus*  
Common Name: Yellowfin seabream

طائر اليوم ذو الصدر الأبيض  
Scientific Name: *Tyto alba*  
Common Name: Barn Owl

سرطان البحر (الكناز)  
Scientific Name: *Portunus sp.*  
Common Name: Mud crab

أسماك الزيم البحري (Seabream)  
Family: Sparidae  
Scientific Name: *Sparus aurata*  
Common Name: Gilthead seabream

أسماك البطحاء (Seabream)  
Family: Cichlidae  
Scientific Name: *Oreochromis niloticus*  
Common Name: Nile Tilapia

أسماك البطحاء (Seabream)  
Family: Sparidae  
Scientific Name: *Rhabdosargus sarba*  
Common Name: Goldlined seabream

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أسماك البطحاء (Seabream)  
Family: Lutjanidae  
Scientific Name: *Lutjanus malabaricus*  
Common Name: Malabar snapper

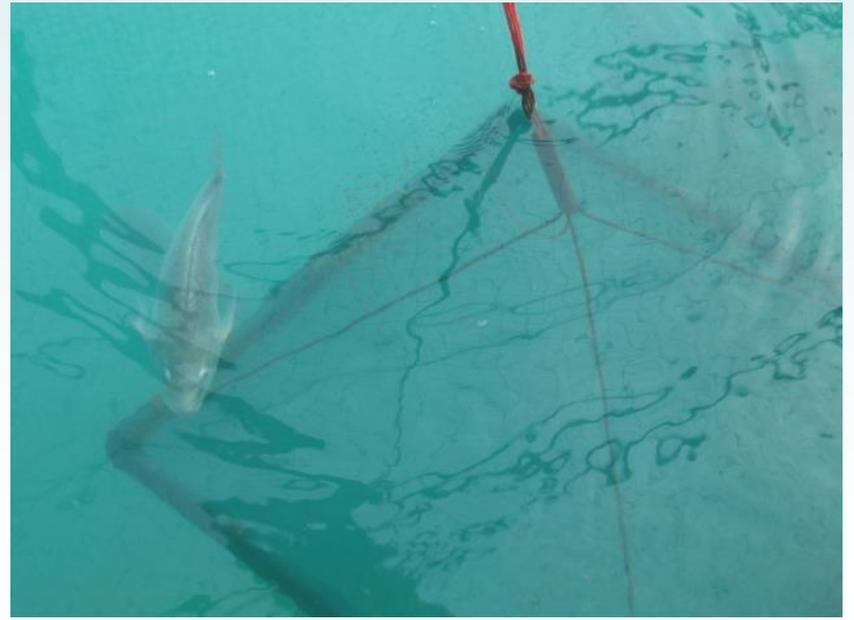
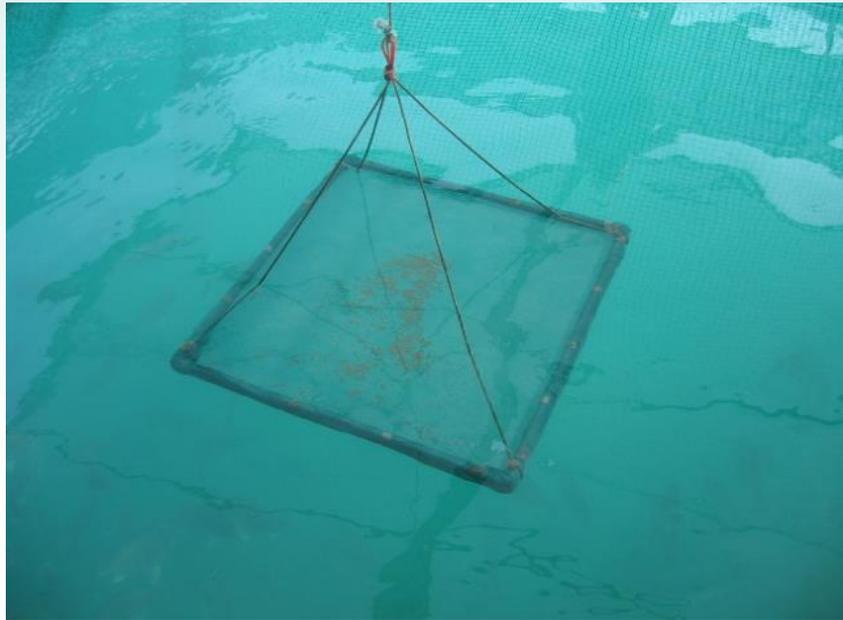
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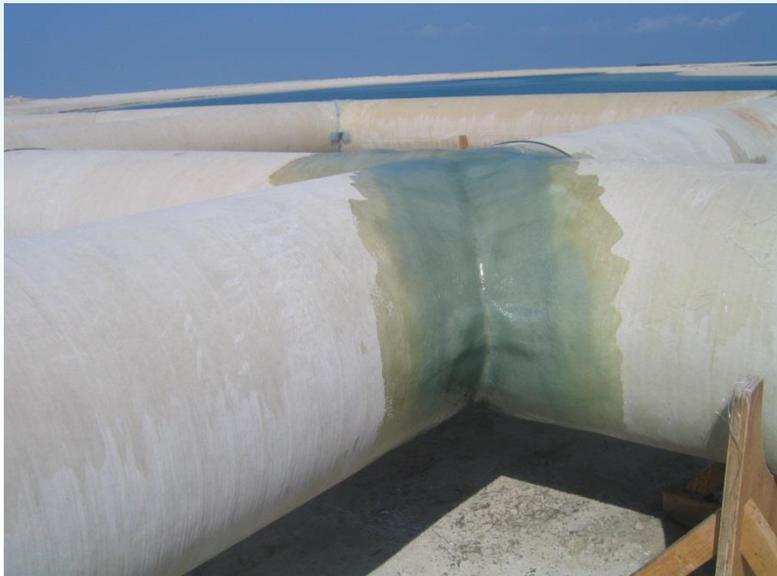
## Floating cage in Green AlAish







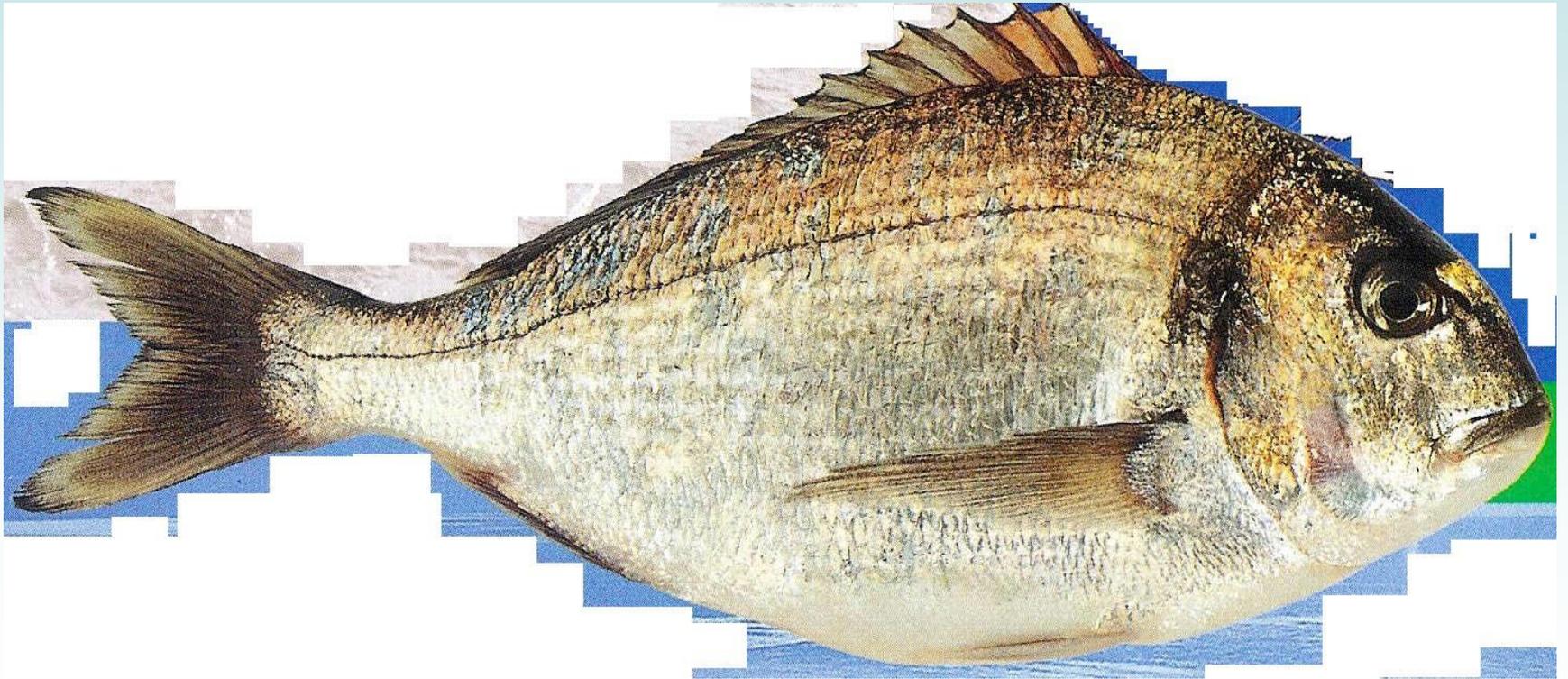
# Manufacturing of fiberglass floating cages



# Asmak Company

*Sparus aurata*

**Gilthead seabream**



# Floating cages in Fujairah



# Circular floating cages



# Fish harvesting



# **Fish culture in Um Alqueen Center for marine researches**



**UAE  
Environment and waters Ministry**

# Spawning of cultivated species

**Grouper**



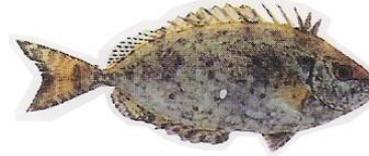
**April- May**

**Mullet**



**Jan. – Feb.**

**Sigan**



**Middle March  
to  
Late May**

**Sobaity**



**Jan. – Feb.**

# Sex Detemining



# Adults injections

Pituitary  
glands

Ratio

100- 200 IU / 100 g



# Algae ponds



# Rotifers ponds



# Larvae fed by algae



# Larvae nursery ponds



# Fingerlings ponds



# Concrete rearing ponds



# Marketing of fingerlings



# Fingerling transported to other farms or releasing into natural protected area

