

## **Support to the Operation of Actual Environmental Survey (ATES) of Mariculture Park**

### ***Brief Description of the Project:***

Actual Technical and Environmental Survey (ATES) of the existing a new mariculture parks/zones in the country is one of the priority programs of BFAR-National Mariculture Center. This is to provide appropriate technical and management support that will ensure sustainable development of these areas. The results of the survey will determine the carrying capacity of the area in terms of fish biomass relative to cage specifications (number and dimension), water sustainability and proper zonation/delineation of marine fish cages with reference to critical habitats such as corals, seagrass and mangroves.

### **Objectives**

1. To determine the carrying capacity, water suitability, and proper zonation/delineation of marine fish cages with reference to the critical habitats; and
2. To assist the Local Government Units in formulating a Mariculture Development Plan/Map in declaring the area as Mariculture Park/Zone;

### **Components and Deliverables**

Two teams composed of five (5) Technical staffs each team with the following activities shall conduct the 5-days survey:

- Coordination and orientation with concerned agencies (BFAR-RFOs and LGUs)
- Bathymetric survey of water quality parameters monitoring
- Underwater survey
- Presentation of initial results

In the implementation of the activity, the deliverables are the:

1. Formulated draft mariculture development plan/map;
2. Identified carrying capacity of the area in terms of fish biomass and relative cage specifications (number and dimension);

### **Implementation Plan**

The activity covers the preparation of proposal and budgetary requirements, coordination with BFAR-Regional Offices, LGUs and other stakeholders. These involve the following:

1. Development of annual procurement plan;
2. Activity proposal preparation;
3. Approval of proposal and purchase request;
4. Coordination with BFAR-Regional Offices, LGUs and other stakeholders; and
5. Conduct actual technical and environmental survey;

Note: Photos on pages 2 to 4

## Environmental surveys conducted for Mariculture Parks



## Environmental Monitoring

Underwater Monitoring – increased of marine species biodiversity within the marine fish cage (attracted to feed wastes), reduces negative impacts to marine environment



slug



ibis

**Underwater Monitoring– increased of marine species biodiversity within the marine fish cage (attracted to feed wastes**



**lionfish**



**boxfish**

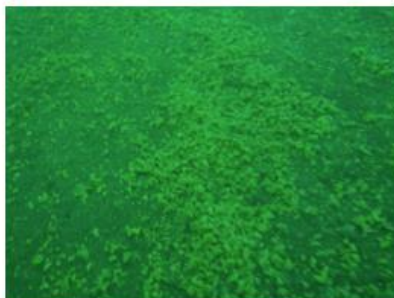


**Spotted scad/langkiya**



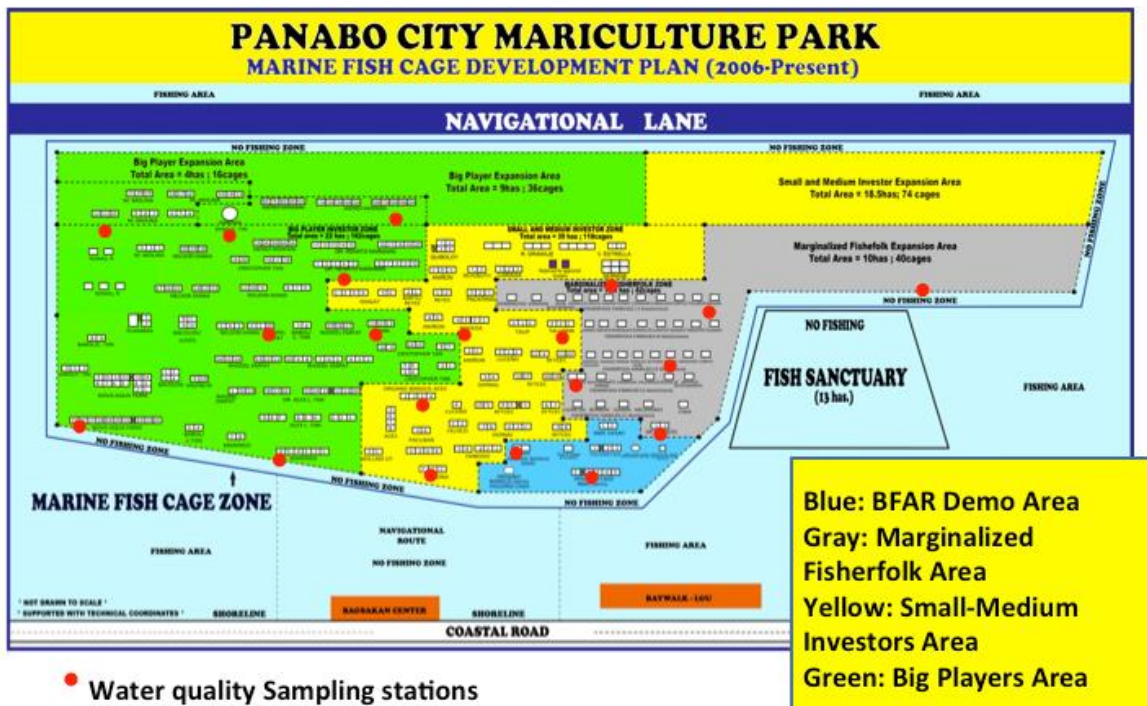
**Puffer fish**

**Underwater Monitoring of Cages to determine the status of net, repair or net mending, and feed wastage**



**Overfeeding by some investors**

Monitoring of existing mooring system, and retrieval operation of mooring lines which was detached due to strong underwater current and typhoon, and reconnected to MFC of investors and fisherfolk



• Water quality Sampling stations