Annex 4/1: Country Report of Brunei Darussalam

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The Regional Training Workshop on Identification of Deep-Sea Fish



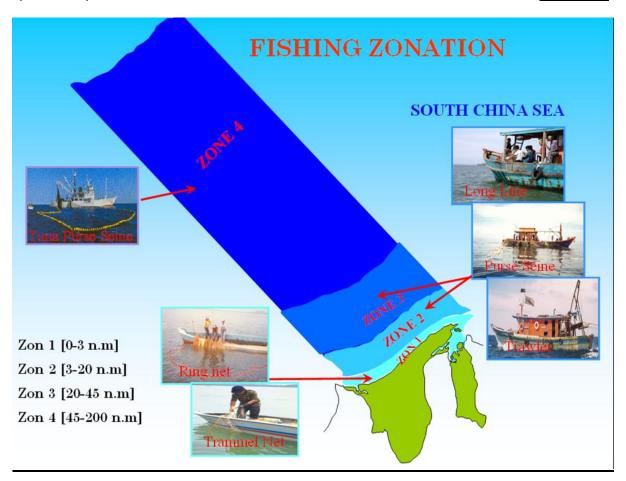
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INTRODUCTIONS

- Brunei Darussalam is located in the northwestern part of Borneo. It has a land area of about 5,765 square kilometer and 130 kilometer long coastline fronting the South China Sea.
- ❖ The total marine territorial area is estimated at about 38,600 square kilometer covering the Exclusive Economic Zone (EEZ) of Brunei Darussalam.
- The coastal waters of Brunei Darussalam are characterized by narrow continental shelves, having a total area of about 8,600 square

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INTRODUCTIONS

- □The 100-200 meter depth is a very narrow strip (about 2 nm) forming the continental edge with an area of about 120 nm² and 40 nm from the shoreline. The bottom type is generally muddy on the western side, and rocky on the eastern side.
- □The continental slope creeps sharply from the 200 m depth up to about 3,000 m depth of the sea floor towards the Palawan trough that ends in Brunei waters.

RESEARCH SURVEY

One of the major activity of Department of Fisheries is to conduct deep-sea survey

The main objective of the survey is to assess ecological resources including both the deep demersal and pelagic fisheries resources in the area that covers zone 4 and to achieve sustainable development of these resources through proper management via the use of scientific data generated by the systematic surveys.

RESEARCH SURVEY

- From 2004 2008, collaborative deep-sea research survey between DOF and SEAFDEC were conducted at depths 100 - 3000 m of EEZ
- Annual surveys have been carried out regularly by Department on the continental shelf areas at depths of less than 100 m.

Experience of identification of deep sea species

Deep-water demersal trawl Survey 2008

The major results of deepsea trawl survey recorded
about 160 species dominated by
Saurida tumbil, Nemipterus
marginatus, Nemipterus
bathybius and Priacanthus
macranthus.





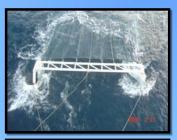




Experience of identification of deep sea species

Beam Trawl Survey RESEARCH SURVEY & RESULT - 2008

- The deep-sea beam trawl survey recorded about 94 species of fishes and Crustaceans. Most of which are unidentified.
- The catch composition were dominated by Saurida tumbil, along 100 160 m depth. The 200 370 m depths were dominated by Silverbelly seaperch. Shrimps includes Heterocampus spp, Plesiomika spp, Parahempomadus spp and Metanephrops spp.

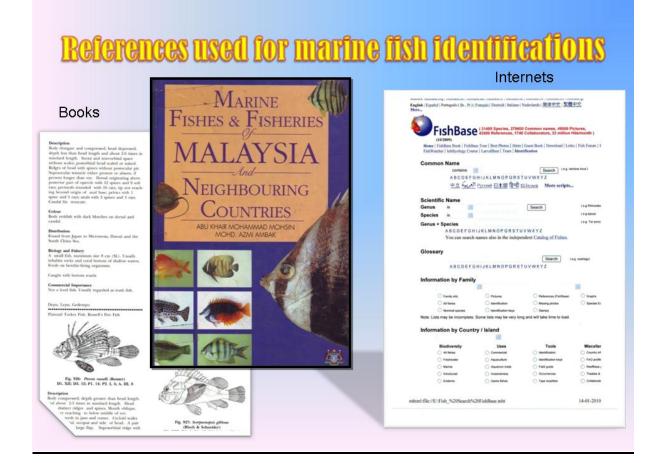






Deep-water fishes & shrimps





Retention of Scientific Fish Collections

1. All the deep-sea species collected during the surveys are frozen and kept in the freezers. Some are preserved in formalin or alcohol solution for further study and identification.

2. Collection and preservation of samples are intended for identification and reference for future surveys.

Expectations from the Workshop

- 1. Learn new methods and techniques on identification of deep-sea fishes;
- 2. Meet experts and taxonomists on unknown deep-sea species;
- 3. Join a network of taxonomists and expert on deep-sea species.