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**MANGROVE COMMUNITY STRUCTURE SURVEY
IN PEDADA BAY, AJUY, ILOILO**

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Mangroves are uniquely tropical, globally occurring and one of the most pervasive coastline ecosystems. They are one of the highly productive and one of the most diverse wetlands on earth. The objective of this study is to assess the community structure of mangroves in Pedada Bay, Ajuy, Iloilo, in particular the species composition and diversity in relation to the physical and chemical factors. Pedada Bay is located in the northern part of Panay Island. The transect line plot method was used to survey the community structure of the mangroves. The floristic composition of Pedada Bay was composed of a total of 18 true mangrove species belonging to 11 families. The true mangroves were Family Avicenniaceae represented by *Avicennia marina* and *A. rumphiana*, Family Bombacaceae represented by *Camptostemon philippinensis*, Family Combretaceae represented by *Lumnitzera racemosa*, Family Euphorbiaceae represented by *Exoecaria agallocha*, Family Meliaceae composed of *Xylocarpus granatum* and *X. moluccensis*, Family Myrsinaceae composed of *Aegiceras corniculatum* and *A. floridum*, Family Myrtaceae represented by *Osbornia octodonta*, Family Palmae represented by *Nypa fruticans*, Family Rhizophoraceae composed of *Bruguiera cylindrica*, *Ceriops decandra*, *Rhizophora apiculata*, *R. mucronata*, and *R. stylosa*, Family Rubiaceae composed of *Scyphiphora hydrophyllacea*, and Family Sonneratiaceae composed of *Sonneratia alba*. Average basal area for the entire Pedada Bay ranges from 300.564 m²/ha for *Sonneratia alba* to 0.008 m²/ha for *Rhizophora mucronata*. Average stems per hectare ranges from 1,988 for *Avicennia marina* to 5 stems per hectare for *Aegiceras corniculatum*. Of the three barangays of Pedada Bay, Barangay Pedada had the highest basal area while Barangay Luca had the lowest basal area. *Sonneratia alba* was the most dominant species in the bay. *Avicennia marina* was the densest, the most frequently occurring, and the most important species in Pedada Bay. The entire area had a high diversity index of 0.718. A distinct zonation pattern was observed in the area. Seedling density ranges from 1,421 seedlings for *Sonneratia alba* to 1 seedling for *Scyphiphora hydrophyllacea*. Sapling density ranges from 166 for *Avicennia marina* to 1 for *Scyphiphora hydrophyllacea*.