

**43002267 Macrobenthic Fauna Associated With Mangrove Plantation
in Abandoned Shrimp Ponds in Pak Poon Estuary, nakhon
Si Thammarat, Thailand**

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The colonization of macrobenthic fauna associated with mangrove plantation in abandoned shrimp ponds and a newly formed mudflat in Nakhon Si Thammarat coast was studied from 1997 to 2000. Polychaetes, *Neanthes* sp. and *Prionospio* sp., were predominant in the abandoned shrimp ponds and newly formed mudflat before mangrove plantation. After two years of plantation, the density of these polychaetes decreased, while crustacean density and diversity tended to increase. Except in the closed, abandoned shrimp pond with occasional seawater intrusion, a stable community did not become established. The rehabilitation of abandoned shrimp ponds by mangrove replanting should be considered.