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Impacts of coral reef bleaching events and recovery of coral communities in the Gulf of Thailand

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論 文 要 旨
Abstract

論文題目

Title Impacts of Coral Reef Bleaching Events and Recovery of Coral Communities
in the Gulf of Thailand

タイランド湾におけるサンゴ礁白化現象とサンゴ群集回復に関する研究

The main objectives of this dissertation research are to quantitatively study on impacts of the coral bleaching events in the Gulf of the Thailand and to investigate the coral recovery patterns. There were significant differences in the impact of the 2010 coral bleaching event among coral species and study sites. Bleaching was significantly different between the most dominant corals during the 1998 and 2010 coral bleaching events. The coral mortality following the mass bleaching events in 1998 and 2010 varied significantly between the years and the coral taxa. Several *Acropora* species that were previously found at Kut Island are presently at risk for local extinction or may already have disappeared. Coral communities on several deep pinnacles in the Gulf of Thailand may act as important refugia for coral survival following the bleaching events.

The coral reef resilience in Thai waters varied greatly among the study sites and major reef groups according to their community structure, largely due to the differing bleaching resistance and tolerance of the dominant coral species. Some levels of genetic connectivity in *Pocillopora damicornis* appeared to be maintained between reef sites in the Gulf of Thailand. The coral reef management and restoration project in some tourist hot spots in the Gulf of Thailand was initiated and successfully implemented.

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