พิมพ์ต้นฉบับบทคัดย่อวิทยานิพนธ์ภายในกรอบสีเขียวนี้เพียงแผ่นเดียว

KEY WORD:

MAIOB PLANKTON / Solen regularis / Solen vitreus

ZOOLOGY

TRANGSIMANT BOUTONG PLANKTON POPULATION IN RELATION TO DENSITY AND BREEDING SEASON OF RAZOR SHELL GENUS Solen AT DON HOI LOD, SAMUTSONGKRAM PROVINCE THESIS ADVISOR : ART-ONG PRADATSUNDARSAR Ph.D., THESIS CO-ADVISOR AJCHARAPORN PIUMSOMBOON Ph.D. :103 PP. ISBN 974-637-050-2

Ten with 3 replications of 1 m^2 quadrat samples of razor shells, 6 stations of phytoplankton and 4 stations of zooplankton were collected monthly (March 1996 - Febuary 1997) to determine the relationship of plankton population to density and breeding season of razor shells genus *Solen*.

Only two species of Solen; Solen regularis and Solen vitreus; were found in the study area. Mean density of Solen regularis population was 4.6 ± 3.7 individual /m² and Solen vitreus population was 6.5 ± 3.6 individual/m². Breeding season of the former was from march to september and the latter was from march to december . Mean abundance of phytoplankton was 95.7 ± 135.1 cell/ml and zooplankton was $1.0 \times 10^9 \pm 3.4 \times 10^9$ individual/100 m³.

Population densities of both shells were related to abundance of phytoplankton genera especially the density of *S. vitreus* which was related to abundance of dominance genus. Population density of *S. regularis* was not related to abundance of zooplankton while *S. vitreus* was related to abundance of zooplankton groups, but not dominant group.

Breeding season of both shell population were related to abundance of phytoplankton in phylum and genus, but not dominance genus. Breeding season of *S. regularis* was not related to abundance of zooplankton while *S. vitreus* was related to abundance of zooplankton groups, not the dominant groups.

ภาควิชา	ชีววิทยา	ลายมือชื่อนิสิต <u>รังรัสวงท</u> ์ บัวพอ 9
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