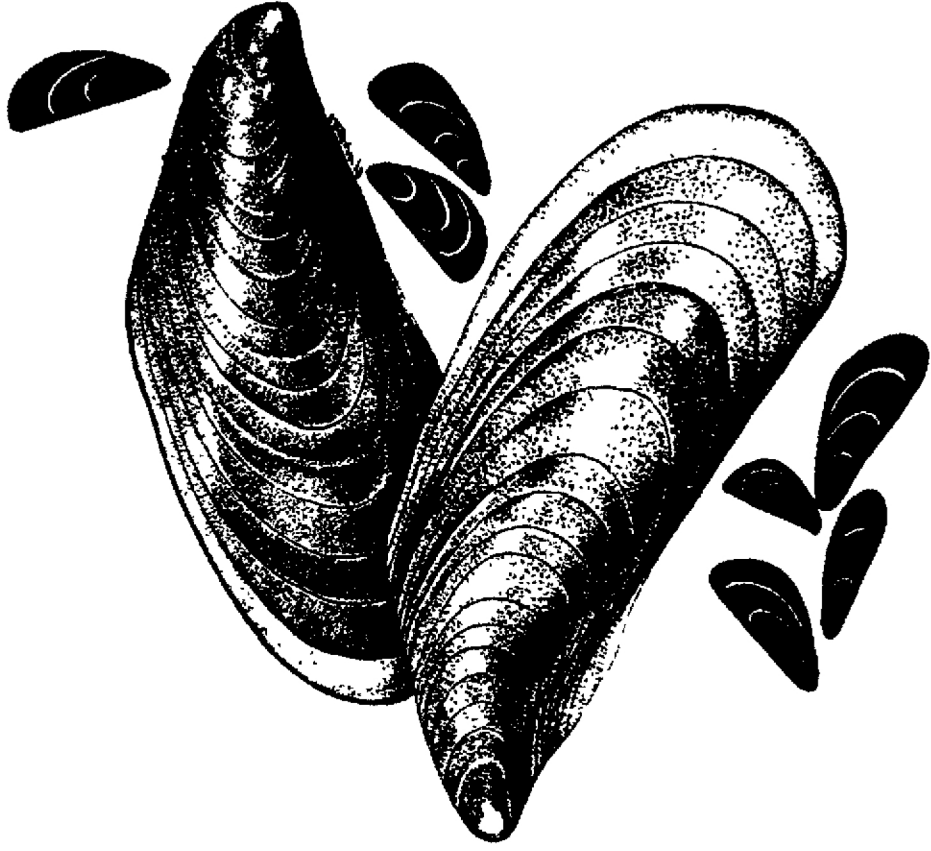


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THE REPRODUCTIVE CYCLE OF THE GREEN MUSSEL,
Perna viridis, IN HIMAMAYLAN, NEGROS OCCIDENTAL

A Thesis

Presented to

The Faculty of the Graduate School
of the University of San Carlos

In Partial Fulfillment
of the requirements for the Degree
Master of Science in Biology

By

Celia Erlinda F. Orano
October 1979

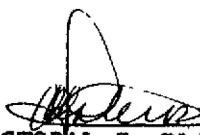
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APPROVAL SHEET

This thesis entitled, THE REPRODUCTIVE CYCLE OF THE GREEN MUSSEL, *Perna viridis*, IN HIMAMAYLAN, NEGROS OCCIDENTAL, prepared and submitted by Ms. Celia Erlinda F. Orano in partial fulfillment of the requirements for the degree of Master of Science in Biology has been examined and is recommended for acceptance and approval for ORAL EXAMINATION.

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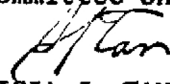

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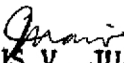

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- 2) Mussel culture could provide supply of valuable protein. 1978. World Fishing. Hosten, Norway. pp. 49-53.
- 3) Manual on Mussel Farming. 1979. Aquaculture Department SEAFDEC, Iloilo, Philippines. pp. i + 17.

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CELIA ERLINDA F. ORANO

ABSTRACT

The reproductive cycle of the Philippine green mussel, *Perna viridis*, from June 1977 to February 1979, is described. The gonadal cycle of *Perna viridis*, unlike that of temperate species, is less defined. The mussels do not attain a particular stage simultaneously. Spawning occurs continuously throughout the year. Indeterminate, developmental and pre-spawning stages occur eight months in one year; the former two occurring irregularly in varying degrees while the latter regularly, every two to five months, in almost the same degree. The gonad passes through a sexually indeterminate phase, after a post-spawning period. The gametogenesis begins, followed by ripening of the follicles. Spawning then sets in. The gonadal cycle of *Perna viridis* directly affects the condition index. Salinity appears to affect the gonadal cycle of mussels more than temperature does. *Perna viridis* populations show a predominance of females with morphological hermaphrodites constituting a small percentage, 0.20%.

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