

SYSTEMATICS AND ECOLOGY OF FERNS (TRACHEOPHYTA; FILICINAE)
IN SITIOS CAHUGAN AND LANIPAO, BARANGAY
SAPANGDAKU, CEBU CITY

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University of San Carlos
Cebu City

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

By
Elena Bordalba-Lozano
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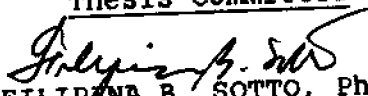
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APPROVAL SHEET

This thesis entitled, "SYSTEMATICS AND ECOLOGY OF THE FERNS (TRACHEOPHYTA; FILICINAE) IN SITIOS CAHUGAN AND LANIPAO, BARANGAY SAPANGDAKU, CEBU CITY", prepared and submitted by ELENA BORDALBA-LOZANO 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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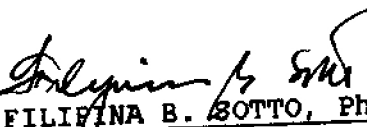

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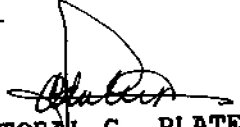

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ABSTRACT

The systematics and ecology of the fern flora in Sitio Cahugan and Sitio Lanipao in Sapangdaku, Cebu City, were studied from August 1984 to May 1985. A total of twelve (12) species belonging to four families and nine genera were identified: Lygodium circinnatum, Microlepia speluncae, Pteris ensiformis, Pteris vittata, Pityrogramma calomelanos, Adiantum caudatum, Adiantum philippense, Adiantum polydon, Nephrolepis biserrata, Davallia denticulata, Macrothlypteris torresiana and Christella dentata.

The occurrence and abundance of the fern species in each of five stations studied were correlated to soil and air temperatures, relative humidity, rainfalls, soil texture, soil pH and organic matter content. Variations in species number among stations occurred. Highest number of species was in Station 3 and lowest in Station 1. Relative abundance of the twelve species in correlation to some of the ecological factors showed variations as manifested in the different degrees of frequency occurrence and density in each station over a ten month period. Majority of the species showed extensive growth in September but decreased drastically in March.

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