

SPECIAL PUBLICATIONS
THE MUSEUM
TEXAS TECH UNIVERSITY

**Biology of Bats of the New World Family
Phyllostomatidae. Part III**

Edited by

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No. 16

January 1979

INTRODUCTION

Because of their adaptive diversity and, in many instances, unique morphological attributes, bats of the family Phyllostomatidae long have fascinated biologists. Known only from the New World, most species of phyllostomatids are limited distributionally to tropical environments, but some representatives occur as far north as the southwestern United States and others southward to the northern parts of Argentina and Chile; some species also are distributed on the Bahamas and islands of the Greater and Lesser Antilles. With the advent in recent years of improved methods of collecting bats, a tremendous wealth of information on phyllostomatids has accumulated, and it is the purpose of this three-part publication, which contains a total of 27 individual chapters, to bring these data together in order to assess what now is known about the family and to provide a departure point for future studies.

Owing to the large number of contributions, all of which were solicited by us from persons we felt to be knowledgeable of the subject matter, and the fact that several contributions are necessarily lengthy, the decision was made to group chapters into three volumes, each separately numbered as a Special Publication of The Museum at Texas Tech University. In order to establish a workable approach by which reference could be made consistently to taxa throughout the series, an annotated checklist by Jones and Carter (published in the first part of the trilogy) was circulated to all authors. Each was asked to follow the nomenclature and systematic arrangement in the checklist or, alternatively, to document departures therefrom. This system, it is hoped, will allow readers to relate information from one chapter to another and from one volume to the next without the handicap of conflicting names for the same organism.

Manuscripts first were requested from contributors in 1973 and most had been received by the end of 1974. Part I of the series was published in 1976 and Part II in 1977. As editorial work progressed, some authors provided up-dated information and all authors had the opportunity to insert limited materials at the time they received galley proofs. Therefore, content is as current as reasonably could be anticipated for a project of this kind. Organization and editorial style follow that established for the Special Publications of The Museum at Texas Tech University. Otherwise, authors were allowed broad latitude concerning material to be included in their chapters. Accordingly, and for obvious other reasons, some chapters overlap others in content.

Even though some redundancy has resulted, we thought it best to have a section on the cited literature with each contribution. Citations to manuscripts in Part III are carried in text as "this volume."

For the convenience of readers who may not have seen Part I of the series (Spec. Publ. Mus., Texas Tech Univ., 10:1-218, 1976), the titles, authors, and pagination of its contents are as follows: Introduction (Baker, Jones, and Carter), p. 5; Annotated checklist, with keys to subfamilies and genera (Jones and Carter),

pp. 7-38; Zoogeography (Koopman), pp. 39-47; Chiropteran evolution (Smith), pp. 49-69; Collecting techniques (Tuttle), pp. 71-88; Care in captivity (Greenhall), pp. 89-131; Economics and conservation (C. Jones), pp. 133-145; Brain anatomy (McDaniel), pp. 147-200; and Lactation and milk (Jenness and Studier), pp. 201-218.

Following a two-page introduction by the editors, Part II (Spec. Publ. Mus., Texas Tech Univ., 13:1-364, 1977) includes: Endoparasites (Ubelaker, Specian, and Duszynski), pp. 7-56; Ectoparasites (Webb and Loomis), pp. 57-119; Oral biology (Phillips, Grimes, and Forman), pp. 121-246; Echolocation and communication (Gould), pp. 247-279; Thermoregulation (McManus), pp. 281-292; Feeding habits (Gardner), pp. 293-350; and Movements and behavior (Fenton and Kunz), pp. 351-364.

February 1978

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