

INSECTS OF MICRONESIA

Heteroptera: Cimicidae¹

By **ROBERT L. USINGER**
UNIVERSITY OF CALIFORNIA, BERKELEY
and **G. F. FERRIS***
STANFORD UNIVERSITY

INTRODUCTION

Cimicidae, or bedbugs, have followed man over most of the earth. In temperate regions, north and south, the common species is *Cimex lectularius* Linnaeus. In the tropics of the Old and New Worlds, this is replaced by the tropical bedbug, *Cimex hemipterus* (Fabricius), except in large cities where *C. lectularius* is able to maintain itself. Native species of Cimicidae occur on swallows, swifts, and other birds (including cave swiftlets, *Collocalia*, in New Caledonia) and on bats in various parts of the world; but none of these has been recorded from Micronesia.

The earliest record of Cimicidae from Micronesia is by Fullaway (1912, Guam Agric. Exper. Sta., Rept. for 1911, 33) who lists *Cimex lectularius* from Guam. It now seems virtually certain that this was really *C. hemipterus*. Subsequent records of *C. hemipterus* are by Esaki (1941, Sixth Pacific Sci. Congr., Berkeley, Proc. 4:414) from Palau Islands and Ponape; Usinger (1946, B. P. Bishop Mus., Bull. 189:52) from Guam; and Usinger [1952, Hawaiian Ent. Soc., Proc. 14 (3):523] from Majuro in the Marshall Islands.

The United States Office of Naval Research, the Pacific Science Board (National Research Council), the National Science Foundation, and Bernice P. Bishop Museum have made this survey and publication of the results possible. Field research was aided by a contract between the Office of Naval Research, Department of the Navy, and the National Academy of Sciences, NR 160-175.

SYSTEMATICS

FAMILY CIMICIDAE

Oval and subflattened species with stiff setae over most of body. Antennae four-segmented. Rostrum three-segmented. Hemelytra reduced to short pads. Head with anteriorly widened clypeus and broad labrum. Ocelli absent. Abdomen with single curved genital organ in male. Females of genus *Cimex* with notch on right side of hind margin of fourth ventral segment as entry to organ of Ribaga.

¹This represents, in small part, Results of Professor T. Esaki's Micronesian Expeditions (1936-1940), No. 104.

* Deceased May 21, 1958.

Genus *Cimex* Linnaeus

Cimex Linnaeus, 1758, Syst. Nat., ed. 10, 1: 441.

Type species: *Cimex lectularius* Linnaeus.

The genus *Cimex* contains native species on bats in North America and the Palearctic and Oriental Regions. Two species are found on humans, with a subspecies, *C. lectularius columbarius* Jenyns, found on pigeons in Europe.

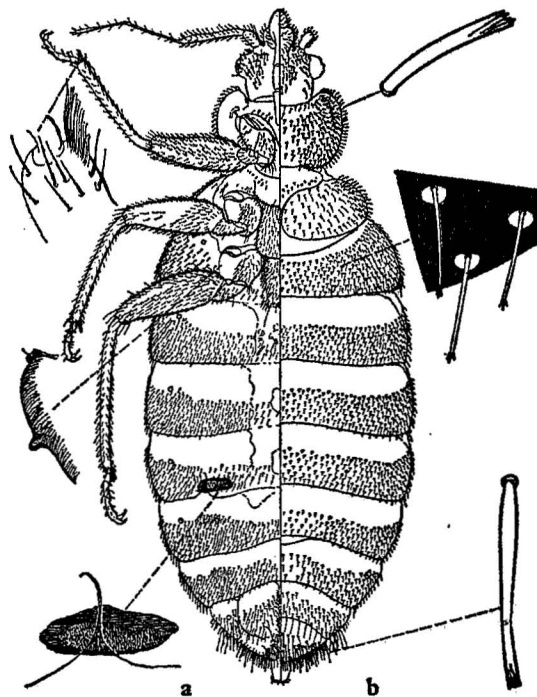


FIGURE 1.—*Cimex hemipterus* (Fabricius), female, reared at London School of Hygiene and Tropical Medicine (G. B. Thompson coll.): a, ventral view; b, dorsal view.

1. *Cimex hemipterus* (Fabricius). (Figure 1.)

Acanthia hemiptera Fabricius, 1803, Syst. Rhyng., 113.

DISTRIBUTION: Tropicopolitan.

S. MARIANA IS. SAIPAN: Nymph, Nov. 21, 1944, Edgar. GUAM: Agana, June 29, 1936, native collector.

PALAU. KOROR: Female, Mar. 8, 1936, Esaki.

TRUK. TONOAS (Toloas): Female, Aug. 1, 1939, Esaki.

PONAPE. Colonia, male, Jan. 1, 1938, Esaki.

MARSHALL IS. MAJURO: Ulika Atoll, Aug. 21, 1950, La Rivers. KWAJALEIN: Female, Aug. 23, 1944, Wallace.