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Systematics and faunistics of Neotropical Eucosmini. 1. *Chimoptesis* Powell, 1964 (Lepidoptera: Tortricidae)

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Abstract

Twenty-one new species of *Chimoptesis* are described and illustrated: *C. costaricae* (TL: Costa Rica: San José), *C. phanera* (TL: Mexico: Chiapas), *C. rubigo* (TL: Mexico: Chiapas), *C. rosariana* (TL: Cuba: Pinar Rio), *C. miniacula* (TL: Mexico: Chiapas), *C. kallion* (TL: Mexico: Chiapas), *C. potosiana* (TL: Mexico: Nuevo Leon), *C. obliquaria* (TL: Mexico: Nuevo Leon), *C. angulata* (TL: Mexico: Chiapas), *C. dentitia* (TL: Mexico: Chiapas), *C. faceta* (TL: Mexico: Nuevo Leon), *C. caera* (TL: Mexico: Chiapas), *C. castanescens* (TL: Mexico: Chiapas), *C. albomixta* (TL: Mexico: Distrito Federal), *C. cornigera* (TL: Mexico: Nuevo Leon), *C. mitrion* (TL: Mexico: Nuevo Leon), *C. setoses* (TL: Cuba: Santiago), *C. juniptesis* (TL: Mexico: Chiapas), *C. tamaulipasias* (TL: Mexico: Tamaulipas), *C. zoquiapana* (Mexico: Distrito Federal), and *C. rufobrunnea* (TL: Costa Rica: San José). Formerly known only from the U.S., *Chimoptesis* is recorded south to Costa Rica in Central America and Cuba in the Caribbean.

Key words: *Chimoptesis*, Costa Rica, Cuba, *Epinotia*, Lepidoptera, new species, New World, systematics Tortricidae

Introduction

Chimoptesis Powell, 1964 was described for four North American species: *C. chrysopyla* Powell, 1964 from California (type species); *C. matheri* Powell, 1964 from Mississippi; *C. pennsylvaniana* (Kearfott, 1907) from Pennsylvania; and *C. gerulae* (Heinrich, 1923) from Pennsylvania. Gilligan et al. (2008) provided illustrations of adults and genitalia of *C. gerulae* and *C. pennsylvaniana* and incorrectly mentioned *habrosana* Heinrich, 1923 as a member of the genus. The purpose of this contribution is to describe 21 new species, all of which occur south of the U.S. border, increasing the number of described species in the genus to 25 and broadening the known geographic range to include Mexico, Costa Rica, and the Caribbean (Cuba). It is likely that other genera considered to be restricted to the Nearctic region will be discovered far to the south in the higher elevations of Central America.

Material and methods

The specimens examined were collected by the second author in Costa Rica, Cuba, and Mexico at elevations ranging from 400 m (Cuba) to 3100 m (Costa Rica). The material currently is retained in V.O. Becker personal collection but eventually will be deposited in a major collection in Brazil. Abbreviations are as follows: GS = genitalia slide, WZ = Witold Zajda.

Systematics

The original description of *Chimoptesis* by Powell (1964) is sufficient to accommodate the morphological diversity of the species described in this paper. However, a few modifications of the original description are proposed



FIGURES 51–52. Adults of *Chimoptesis*. 51, *Chimoptesis zoquiapana* (holotype male), 52, *Chimoptesis rufobrunnea* (holotype male).

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