

# The Moths of North America

Fascicle 9.5

## *Pelochrista* Lederer of the Contiguous United States and Canada (Lepidoptera: Tortricidae: Eucosmini)

by Donald J. Wright and Todd M. Gilligan

376 pages, 168 species accounts, 48 colored plates, 70 monochrome plates. Hardbound with dust jacket. ISBN 978-0-933003-20-0. Published in 2017 by the Wedge Entomological Research Foundation.

*Pelochrista* Lederer is a large Holarctic genus in the Tortricidae. Nearly three-quarters of the 226 described species are native to North America, and the highest species richness occurs in the western half of that continent. This book is the companion to Wright and Gilligan's 2015 *Eucosma* volume, and both provide the first comprehensive treatments of these diverse North American genera to be published in more than 90 years. One hundred and sixty-eight species are reviewed from the contiguous United States and Canada. Fifteen new species are described, 18 new synonymies are proposed, 29 lectotypes are designated, and several unresolved species complexes are discussed. Diagnostic morphological features useful in species identification are emphasized and illustrated with 720 color adult images and 945 detailed genitalia drawings.

"After many years of being unable to identify species in the most specious group of genera of tortricid moths, there is now a solution. This informative and beautifully illustrated monograph on *Pelochrista* includes 1,665 images and drawings for 168 species, including 15 new, in the United States and Canada. The authors are the most knowledgeable researchers on this group of moths, and they have provided essential diagnostic characters for making identifications and have clarified many species synonymies. Combined with the earlier published *Eucosma* volume, this newest monograph completes an essential set of references for lepidopterists, collection managers, and others interested in moths."

— Richard L. Brown  
Mississippi Entomological Museum



2. *Pelochrista bolanderana* (Walsingham, 1879)  
(Plate A, 2a–f; Plate 1, 2a–d)

*Pelochrista bolanderana* Walsingham 1879:42, Fennell 1882:37.  
*Eucosma bolanderana* Fennell 1903:45; Barnes and McDunnough 1917:169; Heinrich 1923:85; McDunnough 1939:65; Powell 1983:34; Brown 2005:316.

**Lectotype** (here designated, Plate A.2a). ♂, California, Siskiyou County, Mount Shasta, Walsingham, 2 August – 1 September 1871, BMNH(E) 819917, slide 11602, BMNH.

Walsingham (1879) described this species from five syntypes (3 ♂, 2 ♀) that he collected at the type locality. The specimen designated here as lectotype was selected by Osherson and bears a circular BMNH "LECTOTYPE" label.

In *P. bolanderana* the subcostal band usually consists of a small basal spot and a distinct serpentine portion that arises on the inner margin at the subbasal position, extends transversely to the cubitus, and continues from there to the torus, following the distal one-half of the inner margin (Plate A.2a–b). The two components are separated by a white spot on the inner margin that extends to the radius. In some specimens (Plate A.2c, e, f) the distal component is broken in the median area by a transverse white spot connecting the inner margin and the "white serpentine band." The specimens illustrated in Plate A.2d, f are unusual in that the subradial and subcostal bands are connected by a median bar. The images in Plate A.2c, f are representative of a series of *bolanderana*-like specimens in the USNM from west Texas and southeastern Arizona with markings that are not as sharply defined as in typical *P. bolanderana*. They do, however, agree with *P. bolanderana* in genitalia.

We examined specimens from Arizona, California, Colorado, Idaho, Nevada, New Mexico, Texas, and Utah. Capture dates range from late April to late September. The USNM has two specimens (1 ♂, 1 ♀) labeled "toothbore" that were reared by G. P. Enghardt in Pinal County, Arizona from *Dicentra canescens* (Pursh) Nutt. var. *canescens* (binary transverse) (reported by Brown et al. 1983 as *Mc. canescens*).

3. *Pelochrista laticeurva* (Heinrich, 1929)  
(Plate B, 3a–d; Plate 1, 3a–c)

*Eucosma laticeurva* Heinrich 1929:4; McDunnough 1939:65; Powell 1983:34; Brown 2005:323.  
*Pelochrista laticeurva* Gilligan and Wright 2016:328.

**Holotype** ♂, California, Sierra Nevada, slide 72809, USNM.

Heinrich (1923) based *P. laticeurva* on two California males, one from "Sierra Nevada," the other from "Mount Shasta district." He selected a unique name-bearing specimen (holotype) by reporting the "Type" locality.

*Pelochrista laticeurva* resembles *P. bolanderana* but is a little larger (mean FWL = 11.1 vs. 8.8 mm) and has the subcostal band reduced to a triangular subbasal mark and a variably expressed mark near the torus, both situated on the inner margin. The specimen illustrated in Plate A.3d is one of a male-female pair in the EMB in which the white areas of the forewing are especially bright and bold. They were collected at Big Pines in the San Gabriel Mountains, Los Angeles County, California and represent what we interpret here as a somewhat unusual phenotype of *P. laticeurva*.

This species is known only from California. We examined specimens from Del Norte, Humboldt, Lassen, Los Angeles, Plumas, Sierra, and Siskiyou counties that were captured between early June and the end of

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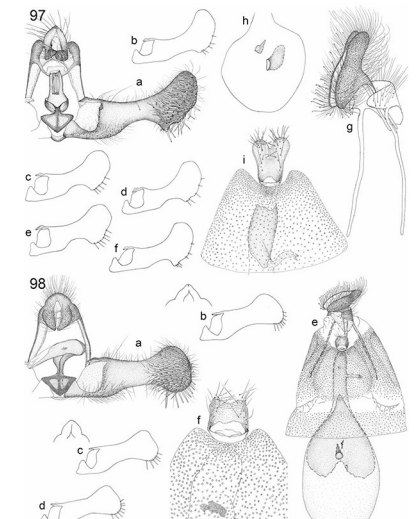


PLATE 42. 97. *Pelochrista bolanderana*: a, male; b–f, valve; g, papillae anales/tergum 8; h, corpus bursae; i, stercorinacium 7.  
98. *P. laticeurva*: a, male; b–c, uncus and associated valva; d, valva; e, female; f, stercorinacium 7.

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