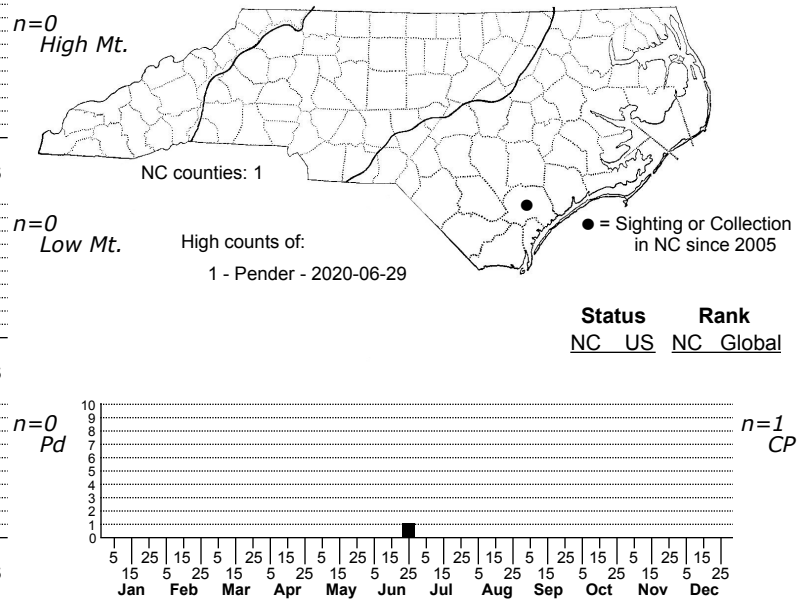
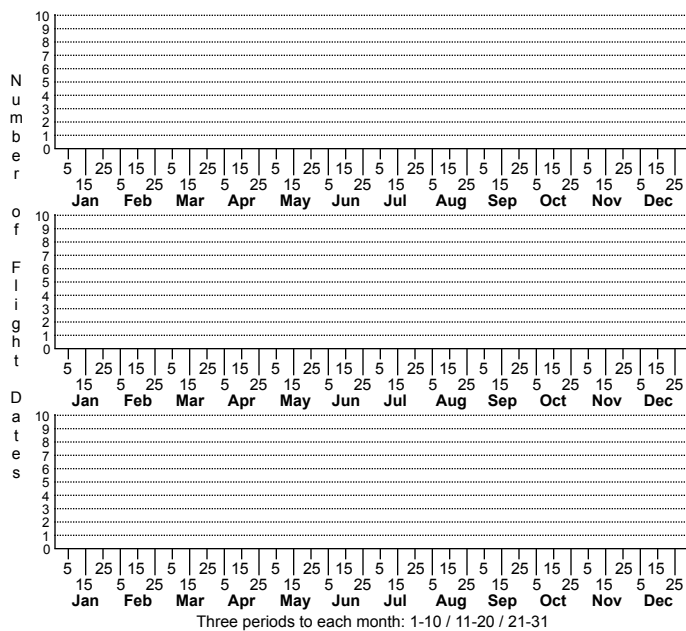


# *Coleotechnites canusella* Banded Jack-Pine Needleminer Moth



FAMILY: Gelechiidae SUBFAMILY: Gelechiinae TRIBE:

TAXONOMIC\_COMMENTS: The genus *Coleotechnites* includes 49 very small species that occur in North America. Most species are specialists on conifers and tend to use on a single genus of host plant. Many of the *Coleotechnites* species have almost identical genitalia that are not very useful in delineating closely related forms (Freeman, 1960; 1965). Freeman (1960) noted that host plants and the mining characteristics often provide the most reliable way to identify closely related species.

FIELD GUIDE DESCRIPTIONS:

ONLINE PHOTOS:

TECHNICAL DESCRIPTION, ADULTS: Freeman (1957)

TECHNICAL DESCRIPTION, IMMATURE STAGES:

ID COMMENTS: The following is based on the original description by Freeman (1957). The antenna is annulated with alternating ochreous-white and black bands. The palp of the female is long and upcurved, and the second joint is whitish basally and blackish-fuscous apically. The male has a pronounced whitish tuft on the inner side of the second segment. The face and vertex are shiny white, with a few fuscous scales laterally and dorsally. The thorax and ground of the forewing are dark brownish-gray. The forewing has an obscure, black, raised spot below the fold at the basal one-third that is marked outwardly with a small white dash. A similar spot is present below the fold near the middle. A third is present above the fold at the outer two-thirds, and is bordered by white scales that form a small, distinct, white X. The apical portion of the wing is speckled with white scales and small black dots or crescent-shaped marks. There is a faint white patch on the costa at the middle, and also one at the outer two-thirds. The hindwing is shiny gray. The fringe of both wings is shiny light ochreous-gray. The male has a long, ochreous, hair-pencil arising from beneath the anal angle of the hindwing. The tibia and tarsi are banded with dark-brown and white scales. This species was originally described from material from British Columbia. Specimens conforming to this species based on genitalic characters have been found in many areas of North America, including the southeastern Coastal Plain. Wing patterning is variable across its wide range, and identification of specimens from the Southeast is best achieved by using genitalia.

DISTRIBUTION: *Coleotechnites canusella* is found in North America from widely scattered localities. Canadian records include British Columbia, Alberta, Ontario, Quebec, and Prince Edward Island (Pohl et al., 2018). Specimens that seem to conform to this species have also been found at southern latitudes, including Arizona, New Mexico, Louisiana, Alabama, South Carolina, and North Carolina. As of 2021, we have a single record from the Coastal Plain. The Coastal Plain populations are poorly studied and their taxonomic status remains to be determined.

FLIGHT COMMENT: Freeman (1957) reported that the adults are present during June in British Columbia. Other records are from April through August. Our one record as of 2021 is from 29 June.

HABITAT: The adults are associated with pine forests, but the specific hosts that are used in the Southeast are unknown.

FOOD: Larvae in the West feed on Lodgepole Pine (*Pinus contorta*), while those in eastern Canada use Jack Pine (*P. banksiana*); Prentice, 1966). Other pines are undoubtedly used in different areas of the range, but specifics about the hosts that are used in the Southeast are not available.

OBSERVATION\_METHODS: The adults appear to only occasionally visit lights and many records are based on adults that were reared from infected pines.

NATURAL HERITAGE PROGRAM RANKS: GNR SU

STATE PROTECTION:

COMMENTS: We currently do not have sufficient information on the distribution and abundance of this species within the state to assess its conservation status.