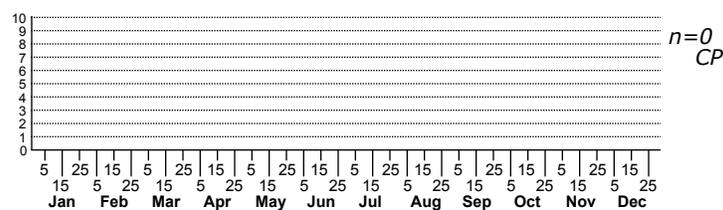
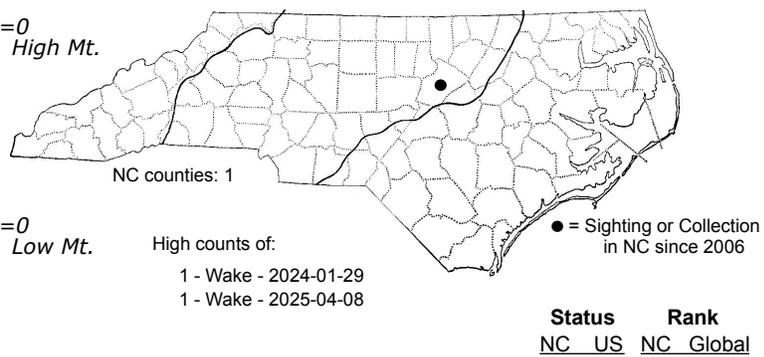
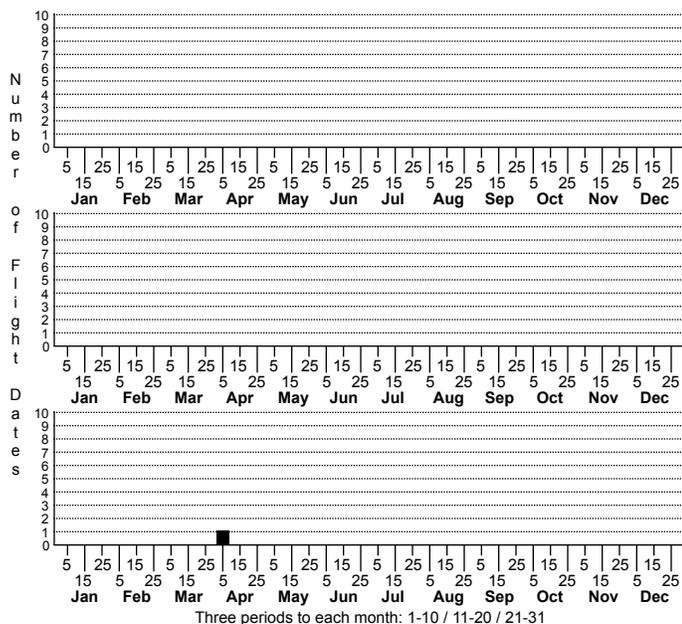


Marmara new species 24 - on Quercus alba No common name



FAMILY: Gracillariidae SUBFAMILY: Gracillariinae TRIBE: [gracillariini]
 TAXONOMIC_COMMENTS: The genus *Marmara* contains 19 described species from North America and numerous undescribed species. Most species are monophagous, and the mines have been found on over 80 North American plant genera that belong to 40 families (Eiseman et al., 2017). Given the small number of described species relative to the large number of hosts, there appear to be dozens of undescribed species in the US. Many of the species are difficult to rear and are only known from leaf or stem mines. North Carolina appears to have numerous undescribed species based on host preferences and mine characteristics, and Tracy Feldman has spearheaded efforts to document these within the state. We have included *Marmara* that we believe are probably undescribed species (ca. 30) and have listed these by their host plants. We encourage individuals to submit any leaf or stem mines that they find based on the plant hosts in order to better document the distribution and relative abundance of these forms in North Carolina.

FIELD GUIDE DESCRIPTIONS:
 ONLINE PHOTOS:
 TECHNICAL DESCRIPTION, ADULTS:
 TECHNICAL DESCRIPTION, IMMATURE STAGES: Eiseman (2022)

ID COMMENTS: This apparently undescribed species is a stem miner of White Oak.

DISTRIBUTION: As of 2024, we have only a single record that is from the eastern Piedmont. Eiseman (2022) noted that a specimen was reared from Connecticut that may be the same species.

FLIGHT COMMENT: Please refer to the flight charts.

HABITAT: This species uses White Oak as a host, which is found in a variety of mesic to drier forest communities statewide.

FOOD: White Oak (*Quercus alba*) is the only documented host as of 2024.

OBSERVATION_METHODS: We recommend searching for the mines on young White Oak stems. The adults should be reared, photographed and collected whenever possible.

NATURAL HERITAGE PROGRAM RANKS: GNR[SU]

STATE PROTECTION:

COMMENTS: