

CDC Mosquito Collections in Coastal Georgia for Adult Mosquito Identification Key

Georgia Mosquito Control Association Annual Meeting

Athens, Georgia
October 18, 2018

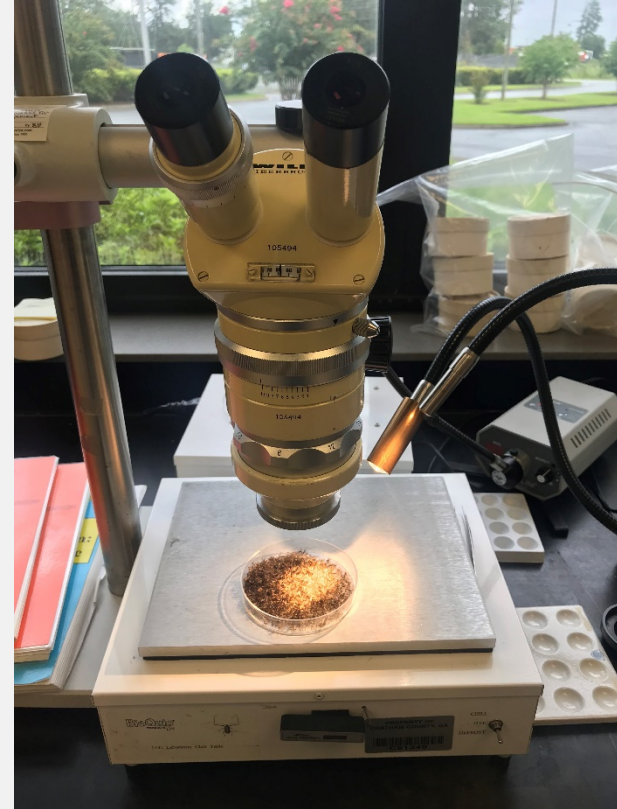
Christine Vanover, MPH, REHS

Water, Food, and Environmental Health Services Branch



What We Will Discuss:

- Purpose of the project
- What we did
- What we found
- When to expect new tool



Why Is CDC Collecting Mosquitos in Georgia?

- Hurricane Recovery Crisis NOFO
 - CDC-RFA-TP18-1802
- Eligibility of Vector Control (Mosquito Abatement) Federal Assistance through FEMA
- Assist public health professionals who do not perform mosquito surveillance and identification regularly



Screenshots: YouTube/[Tyler Bennett](#)

Mosquito Identification Challenges:

- Mosquito traps damage mosquitos
- Morphology is tricky
- Difficult to translate black and white illustrations in a dichotomous key.

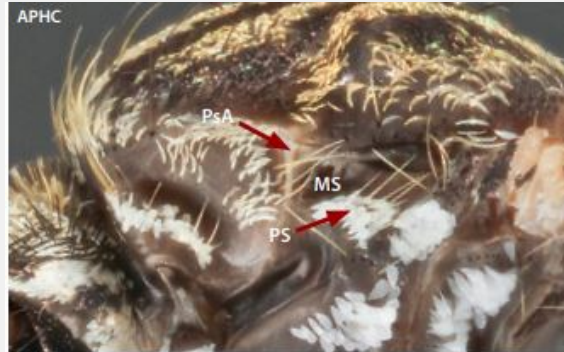


Fig. 29. Prespiracular setae absent AND postspiracular setae (PS) present:
Aedes japonicus

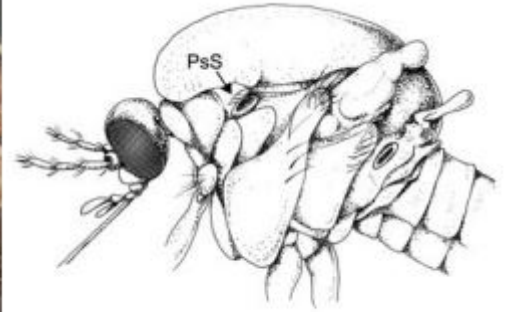


Fig. 22

Mosquito Collection in Coastal Georgia

- CDC team: Dominic Rose, Andrew Ruiz, Christine Vanover
- Dates: July 16-August 2, 2018
- 46 larval collection sites
- 11 adult collection sites
- 9 different counties









What we found and next steps

- **26 different species found out of the 53 known species known to occur in Georgia**
 - Was not able to collect them all due to seasonality of certain species
- **Other states: FL and TX**
- **CDC Division of Vector-borne Diseases, Ft. Collins projects final on-line mosquito identification key to be released in 2020**

Aedes albopictus
Aedes atlanticus
Aedes canadensis canadensis
Aedes dupreei
Aedes fulvus pallens
Aedes infirmatus
Aedes mitchellae
Aedes sollicitans
Aedes taeniorhynchus
Aedes triseriatus
Aedes vexans
Anopheles crucians
Anopheles punctipennis
Anopheles quadrimaculatus

Culex coronator
Culex erraticus
Culex quinquefasciatus
Culex nigripalpus
Culiseta melanura
Mansonia titillans
Psorophora columbiae
Psorophora ciliata
Psorophora ferox
Psorophora howardii
Toxorhynchites septentrionalis
Uranotaenia sapphirina

Special Thanks to Chatham County Mosquito Control District!

- Jeff Heusel
- Ture Carlson
- Bobby Moulis
- Laura Peaty
- Everyone else!



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Questions?

Christine Vanover, MPH, REHS
Cvanover@cdc.gov



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