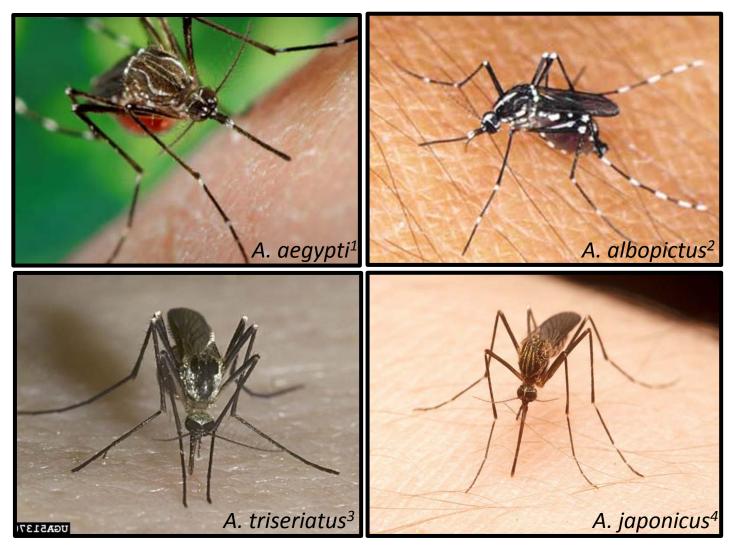
Understanding Aedes
presence, abundance,
and phenology
Results from the 2016
North Carolina
Mosquito Survey.

Emily Reed
North Carolina State University



Container-Breeding Mosquitoes

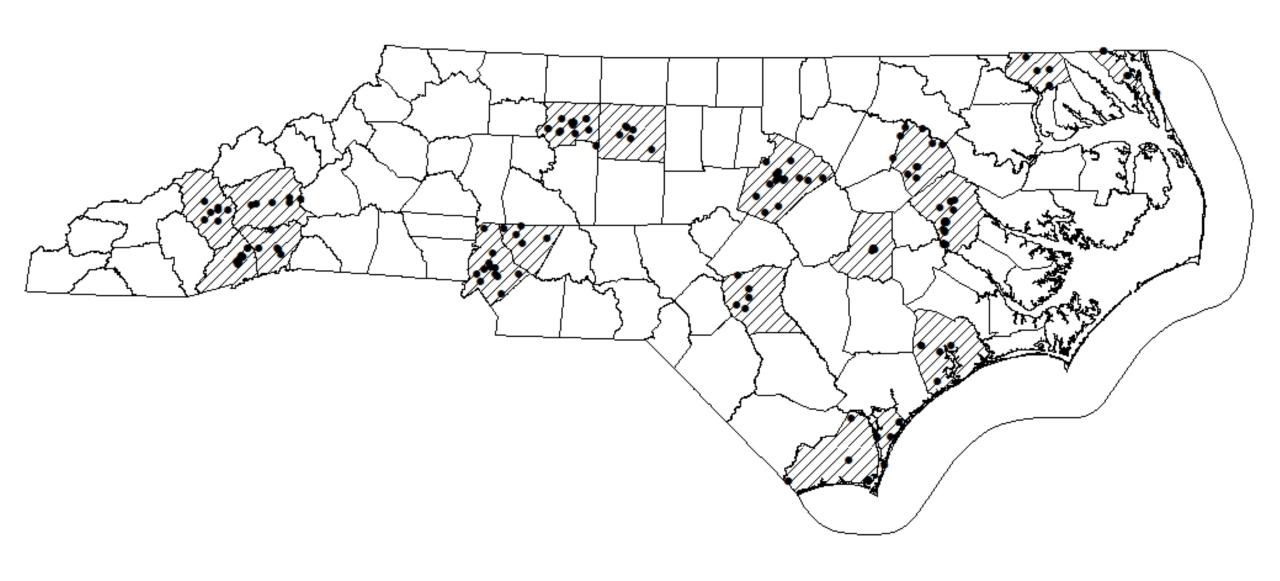
- Aedes spp.
- Vectors of disease
- Artificial containers
- Thrive in urban areas



- 1. Photograph by Paul Howell and Frank Hadley Collins, Center for Disease Control Public Health Image Library
- 2. Photograph by J.L. Castner, University of Florida.

- 3. Photograph by Susan Ellis, Bugwood.org
- 4. Photograph by Sean McCann, Ibycter.com

Site Selection

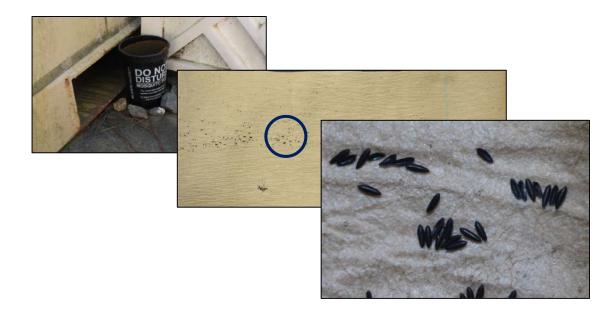


Site Selection



Hatching and Identification

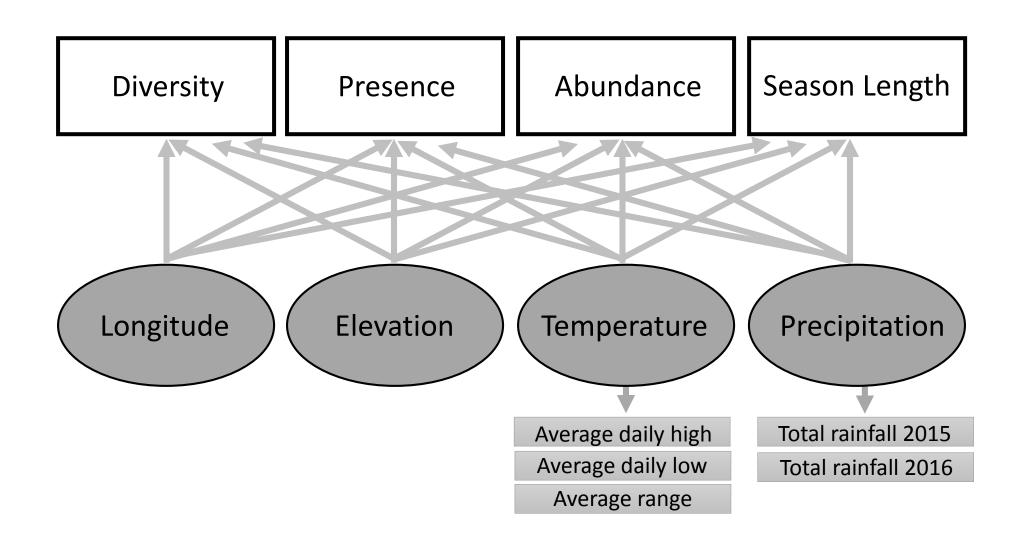
- Ovitraps
- April-November
- Eggs counted
- Larvae or Adults identified





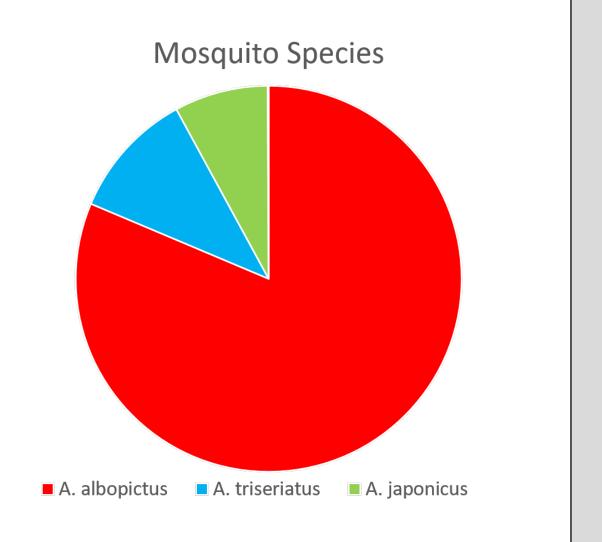
Purdue Agricultural Communication photo/Tom Campbell

Analysis

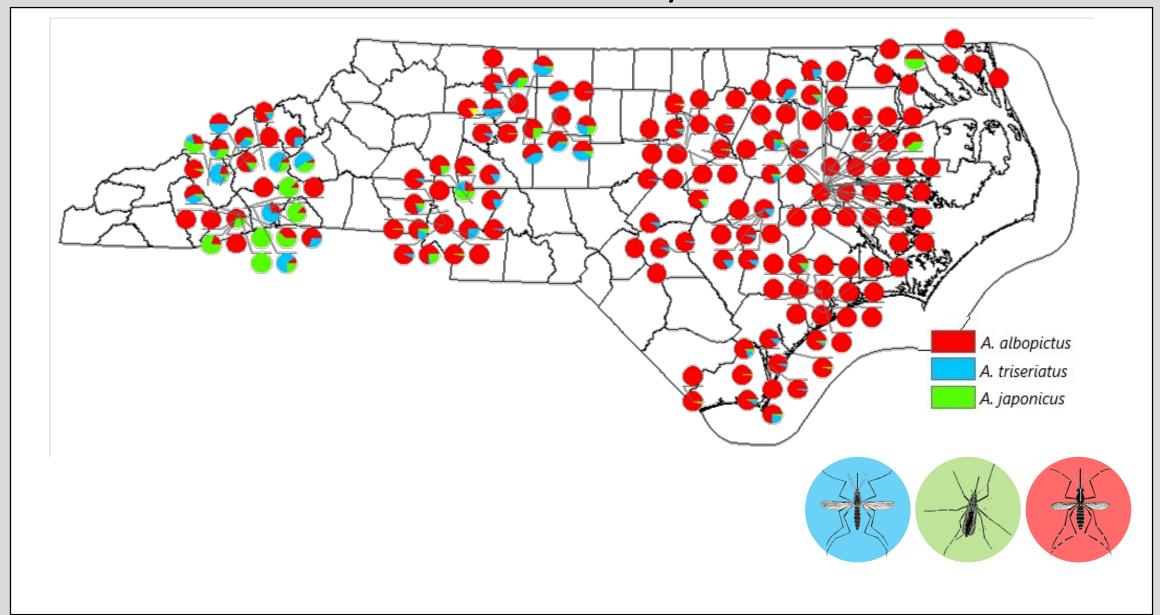


Results

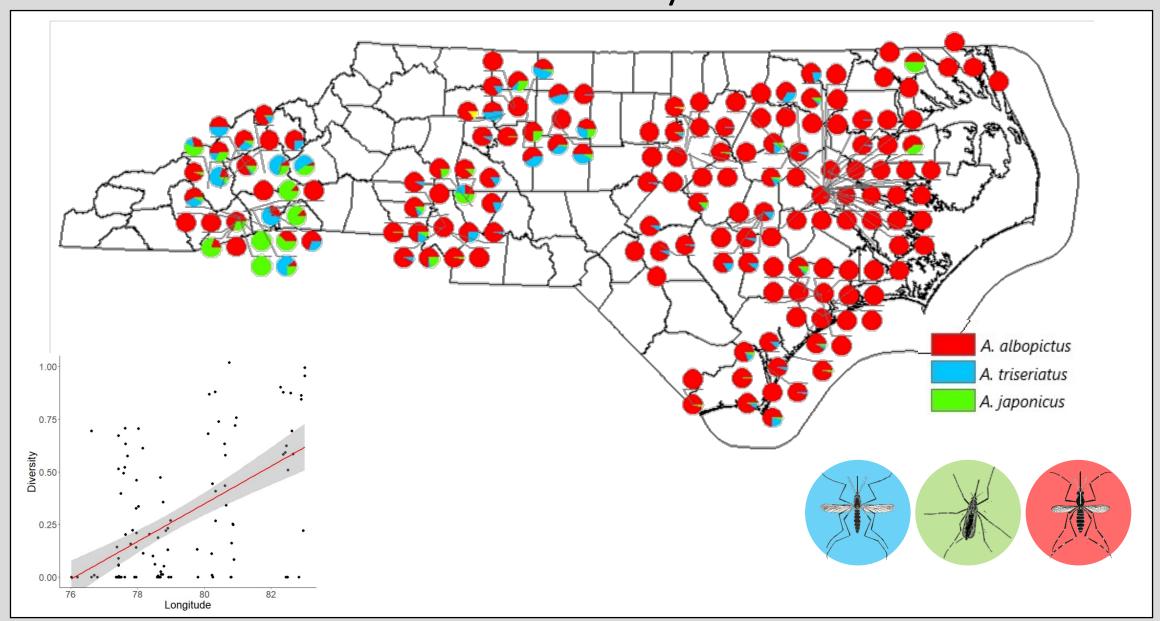
- Total eggs: 203360 counted
- *A. albopictus*: 54458, 81%
- *A. triseriatus*: 7169, 11%
- *A. japonicus*: 5262, 8%
- *A. hendersoni:* 52, 0.01%



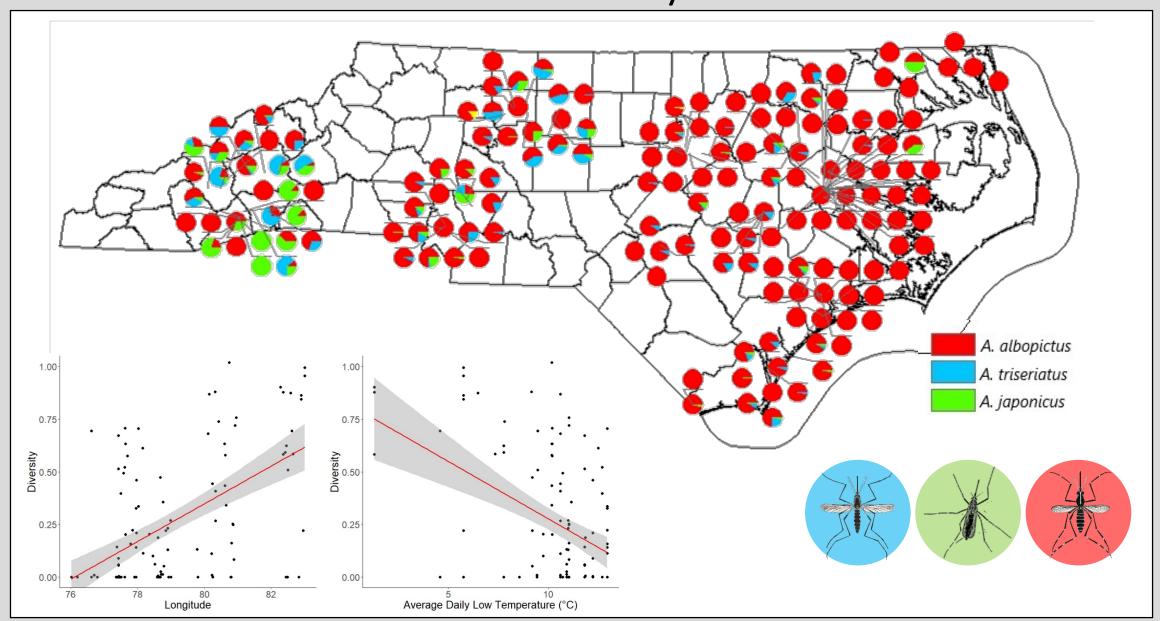
Diversity

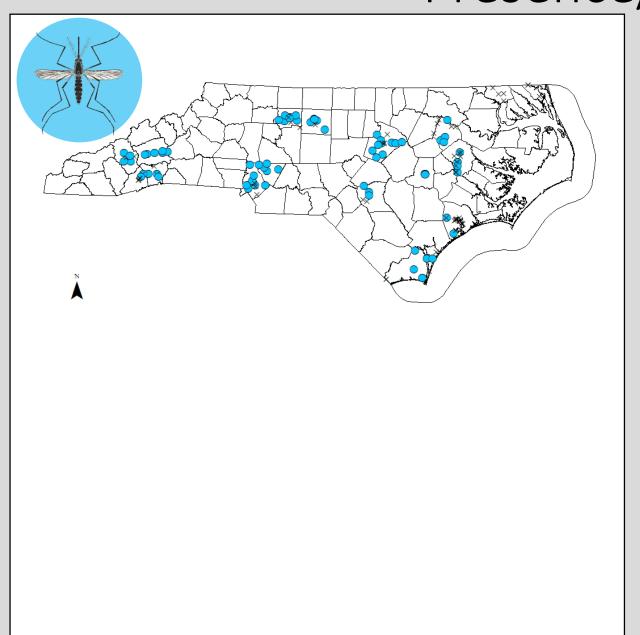


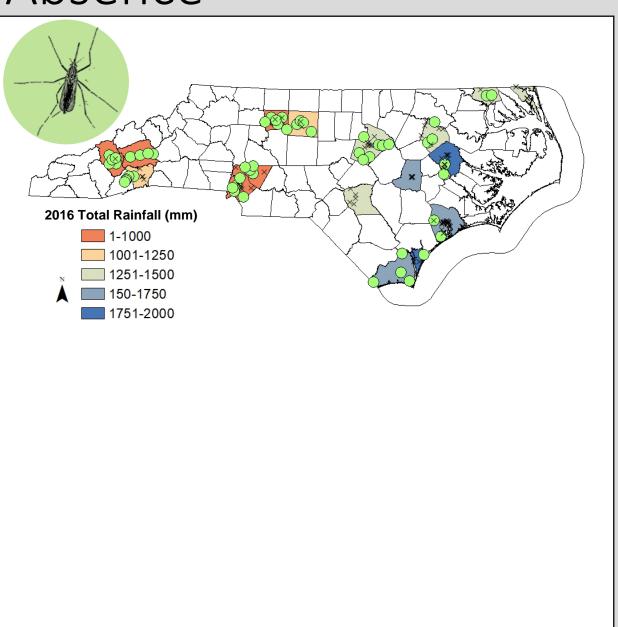
Diversity

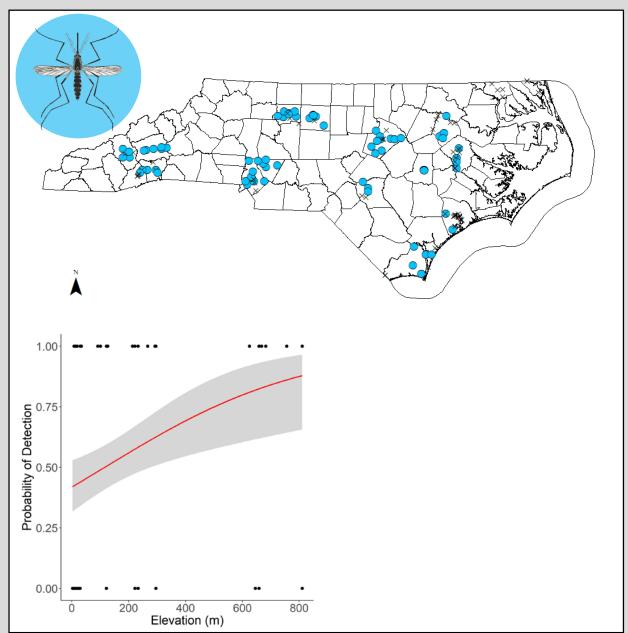


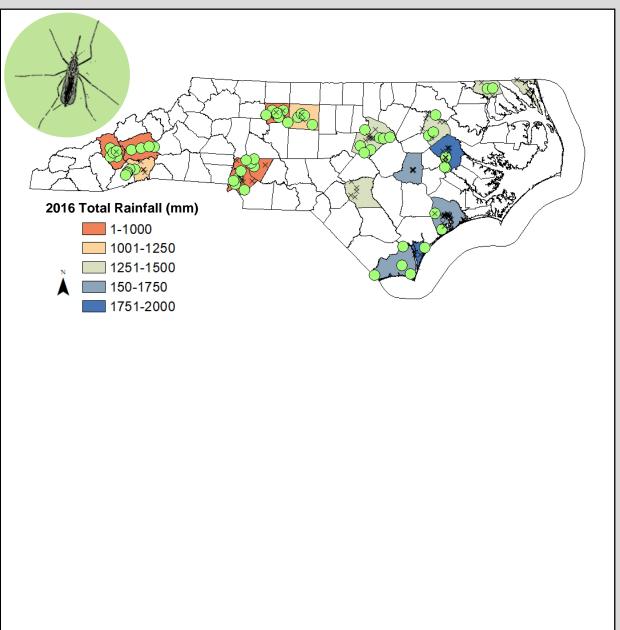
Diversity

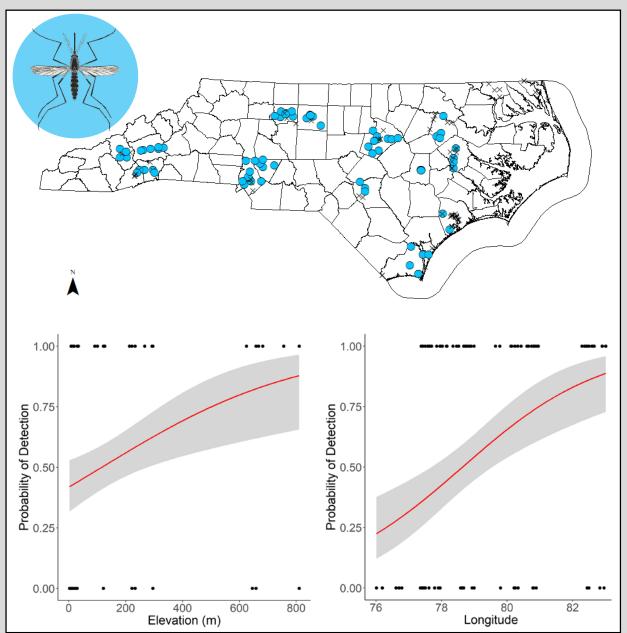


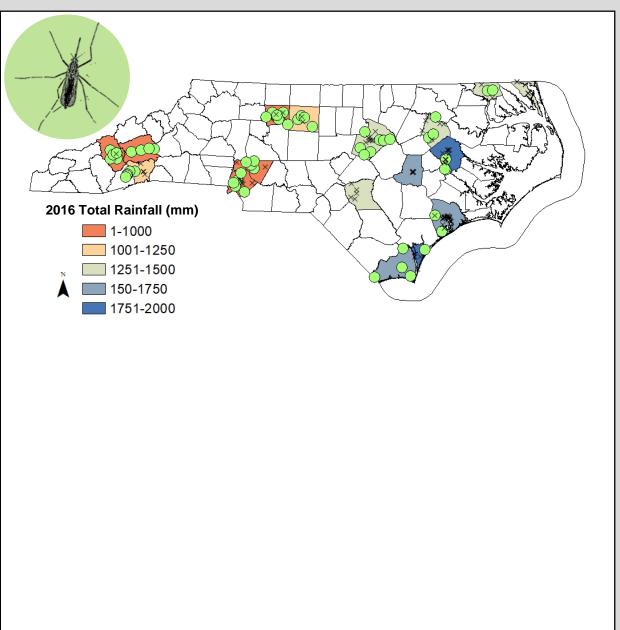


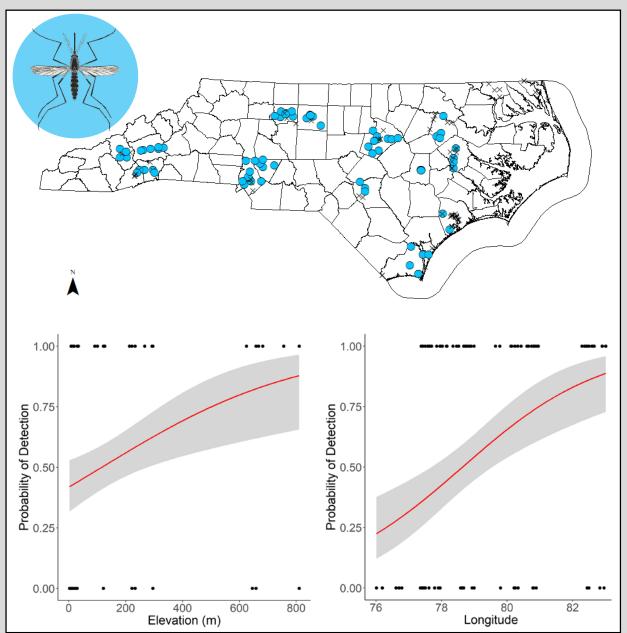


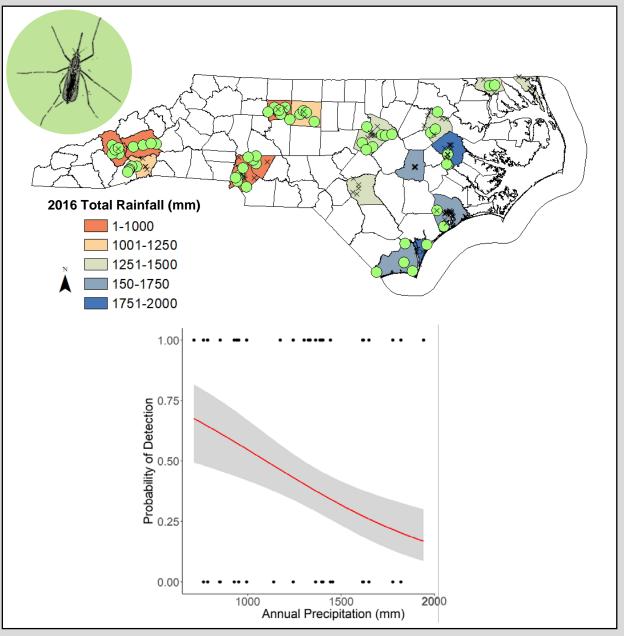


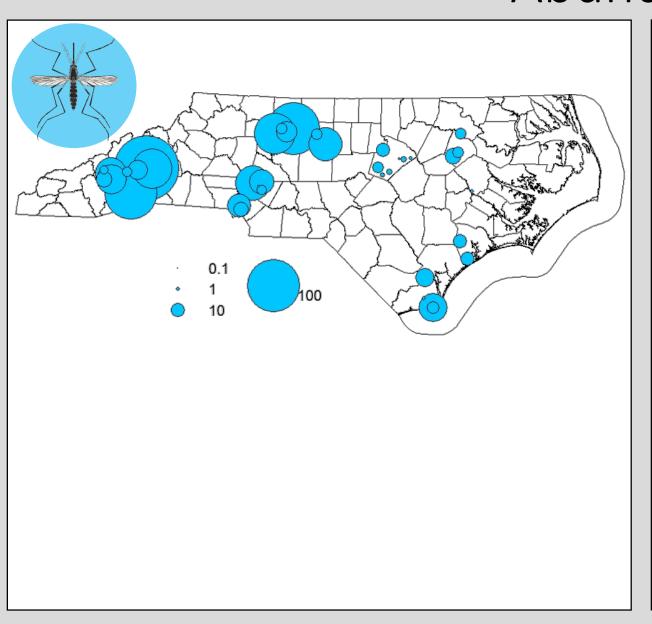


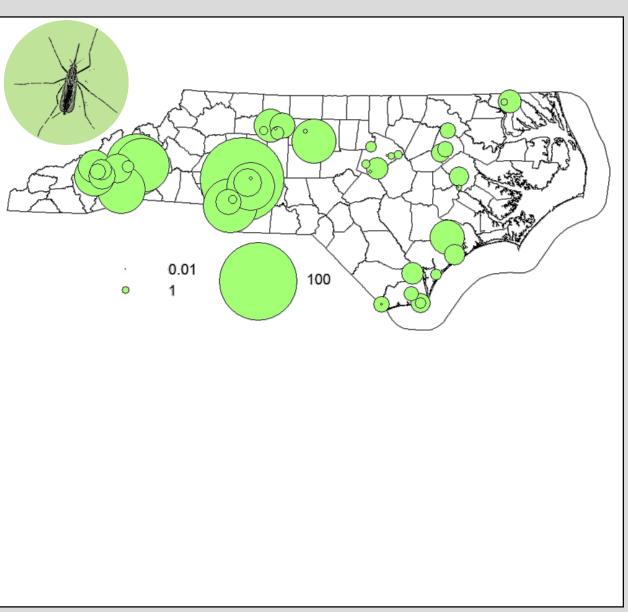


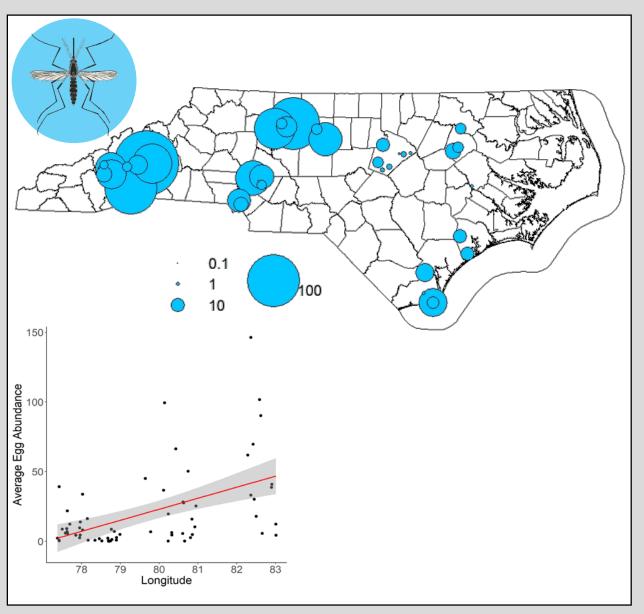


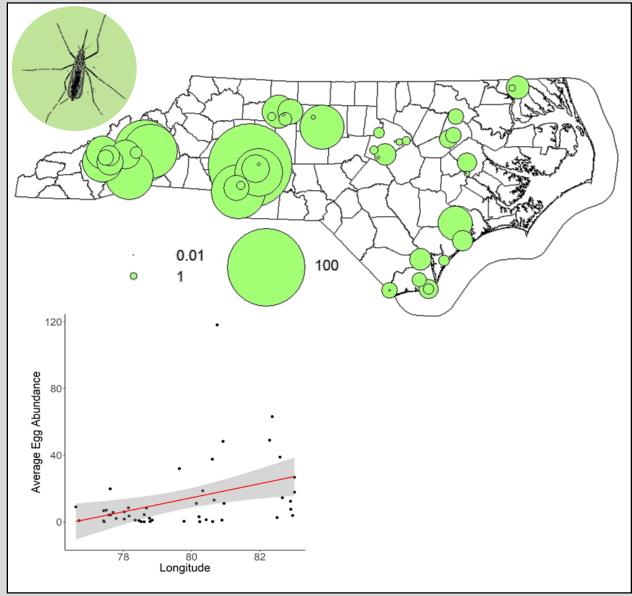


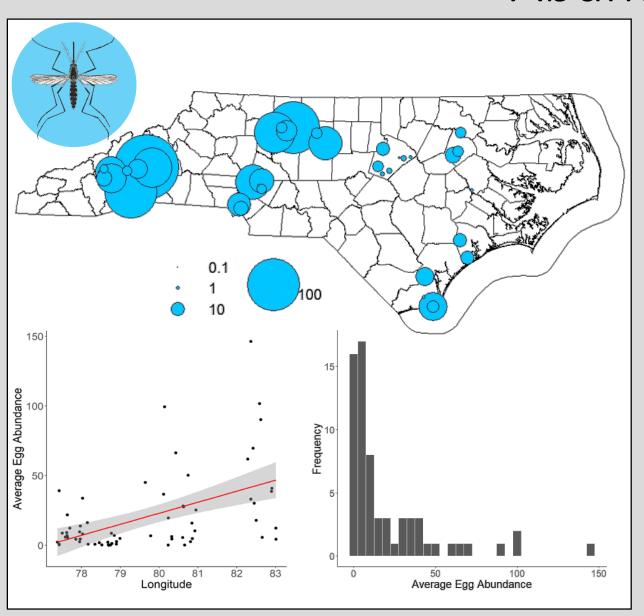


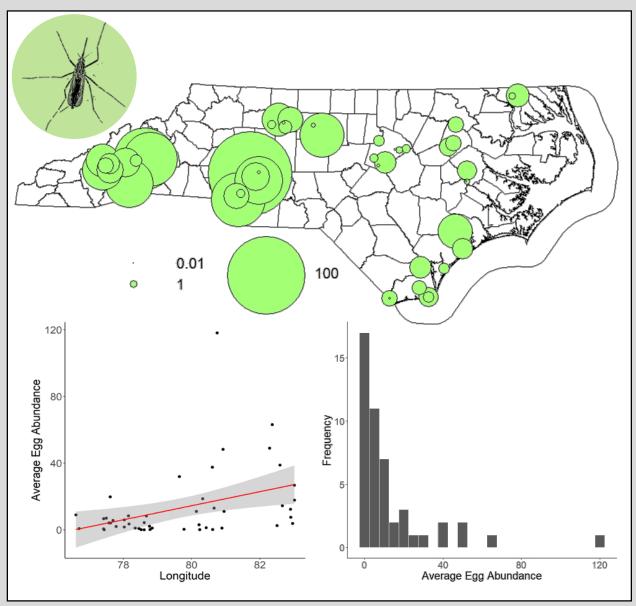


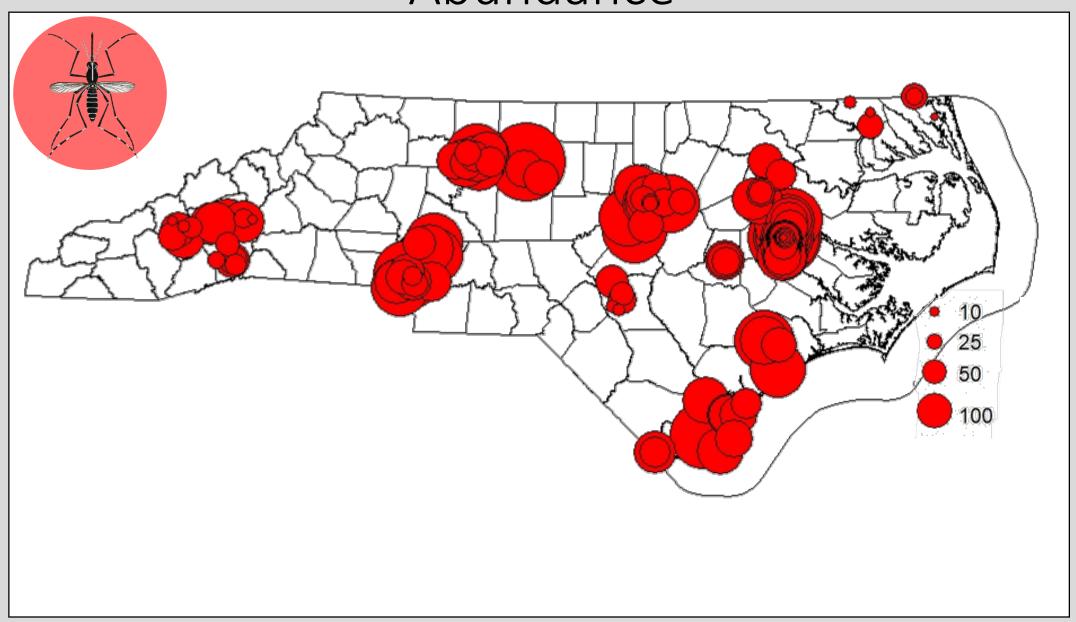


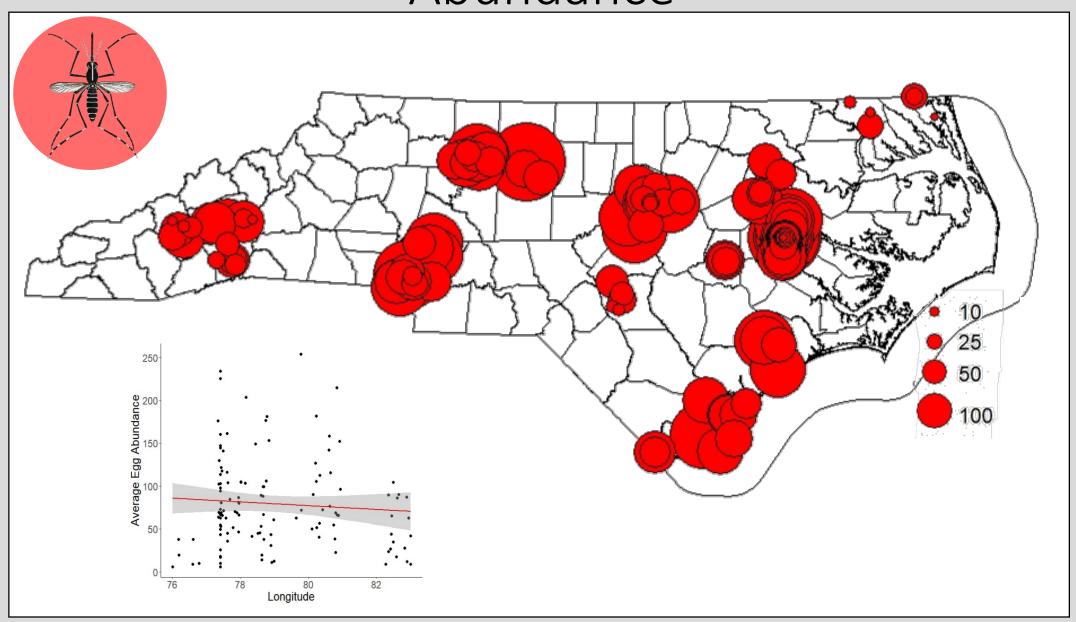


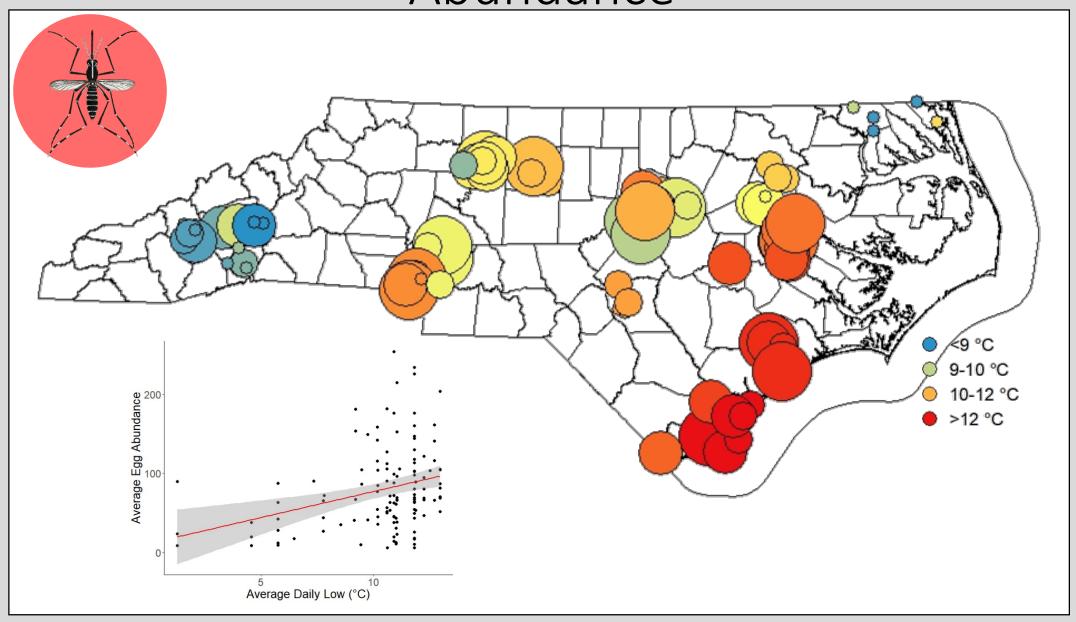


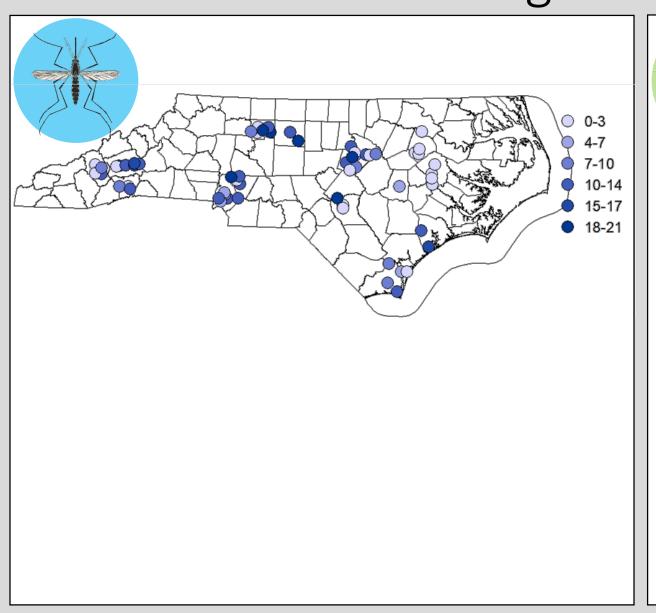


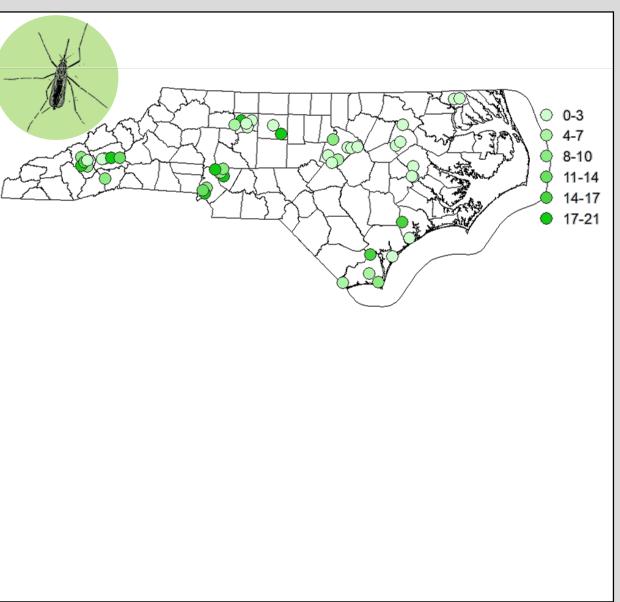


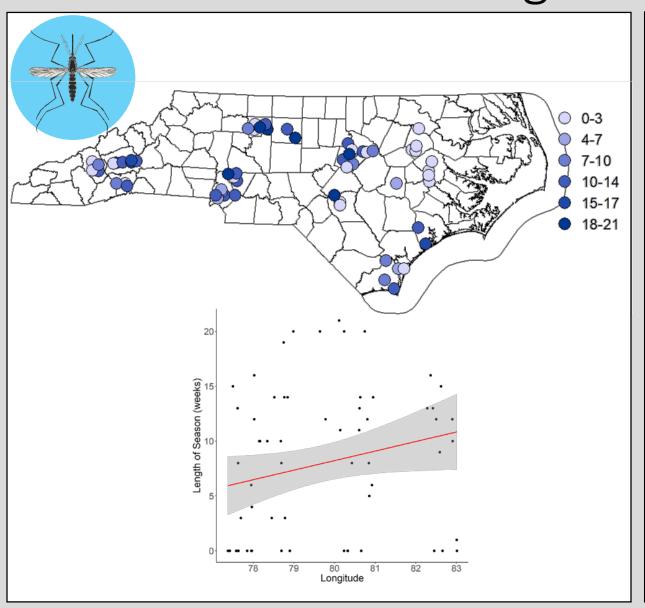


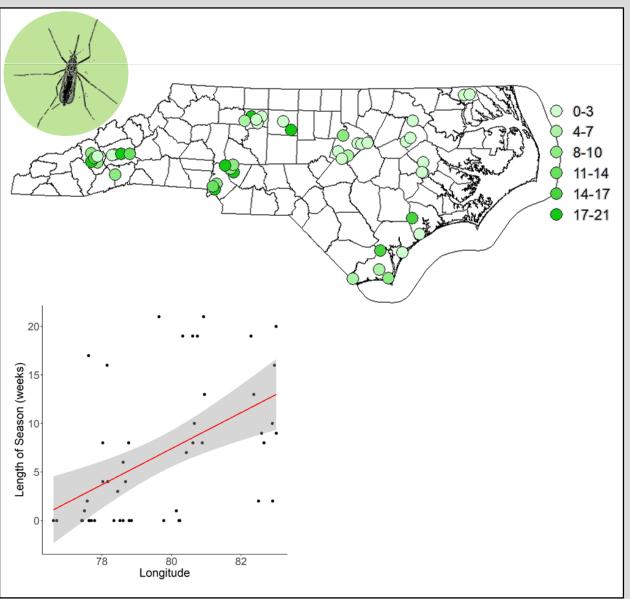


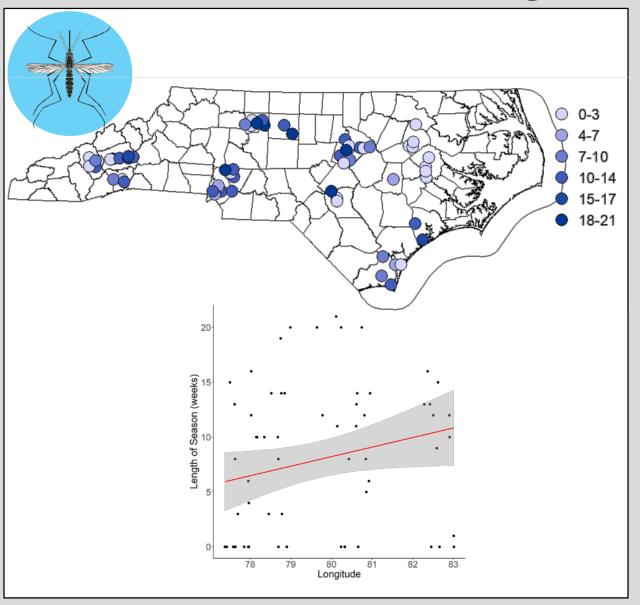


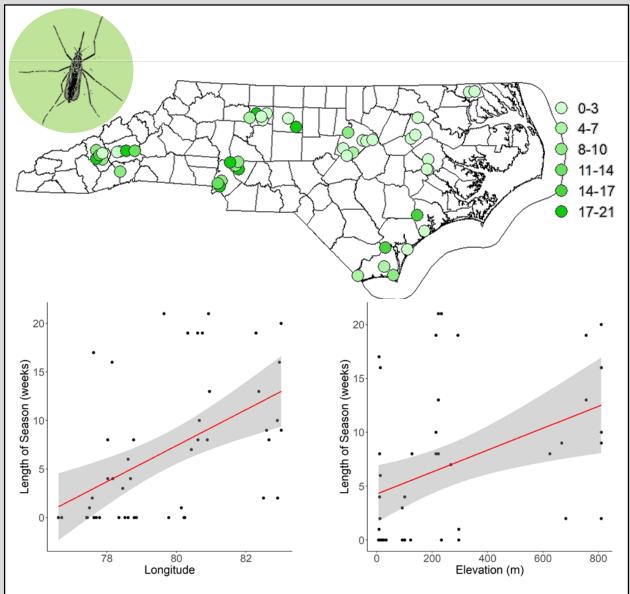


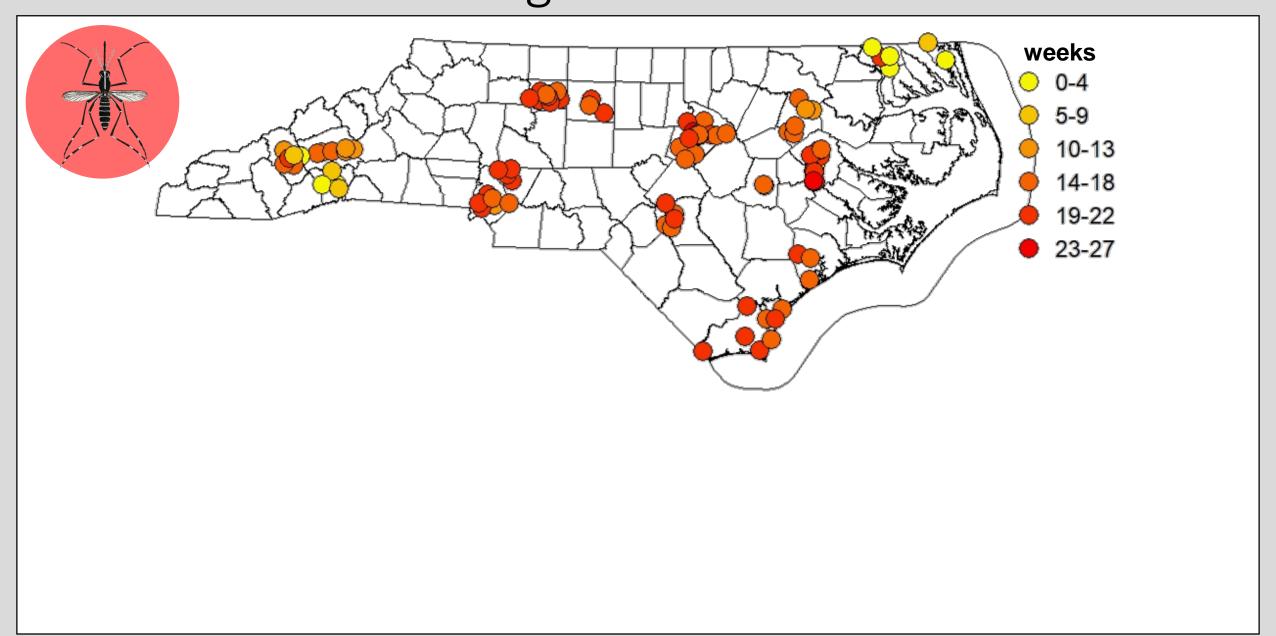


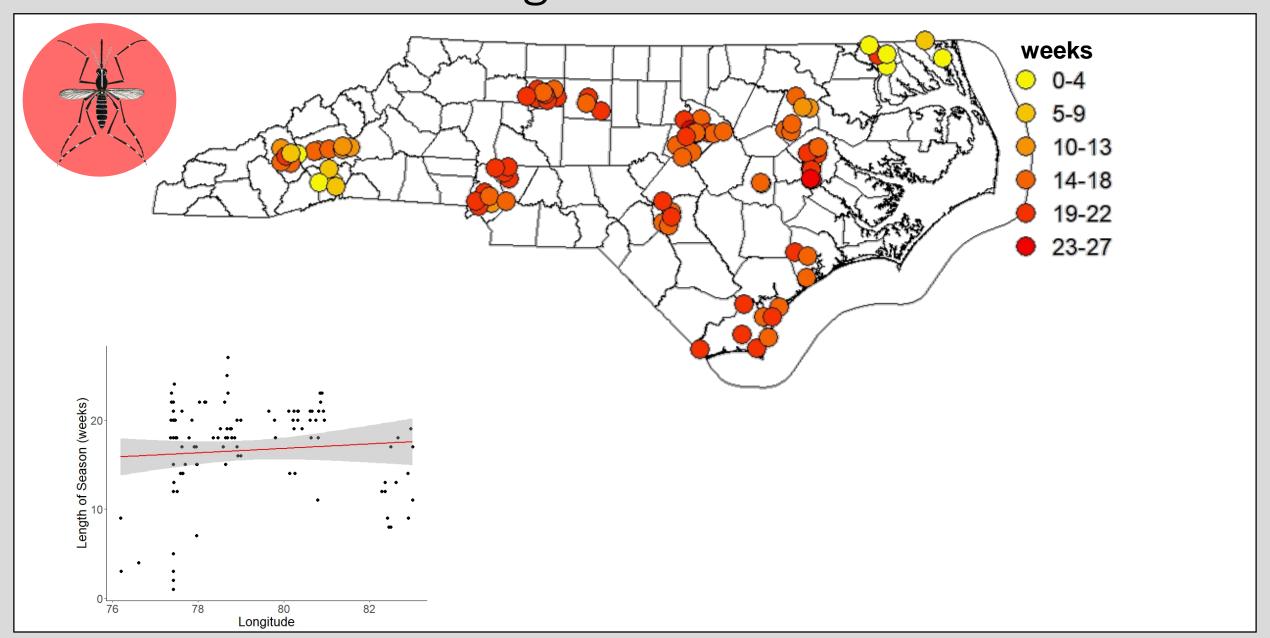


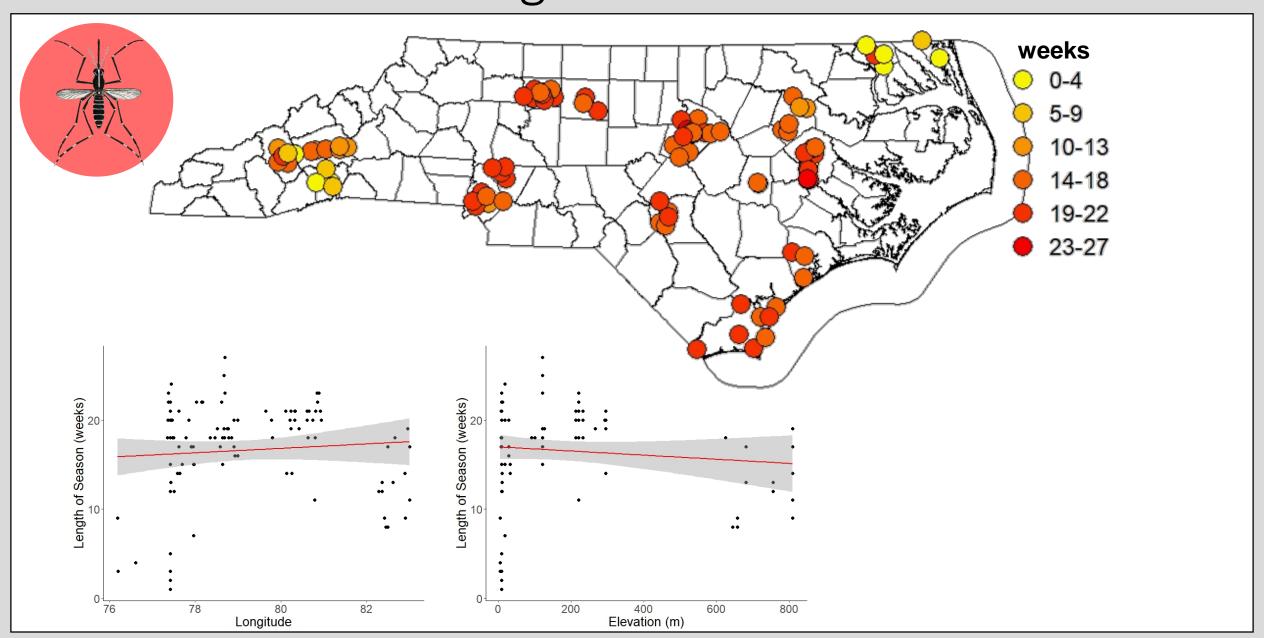


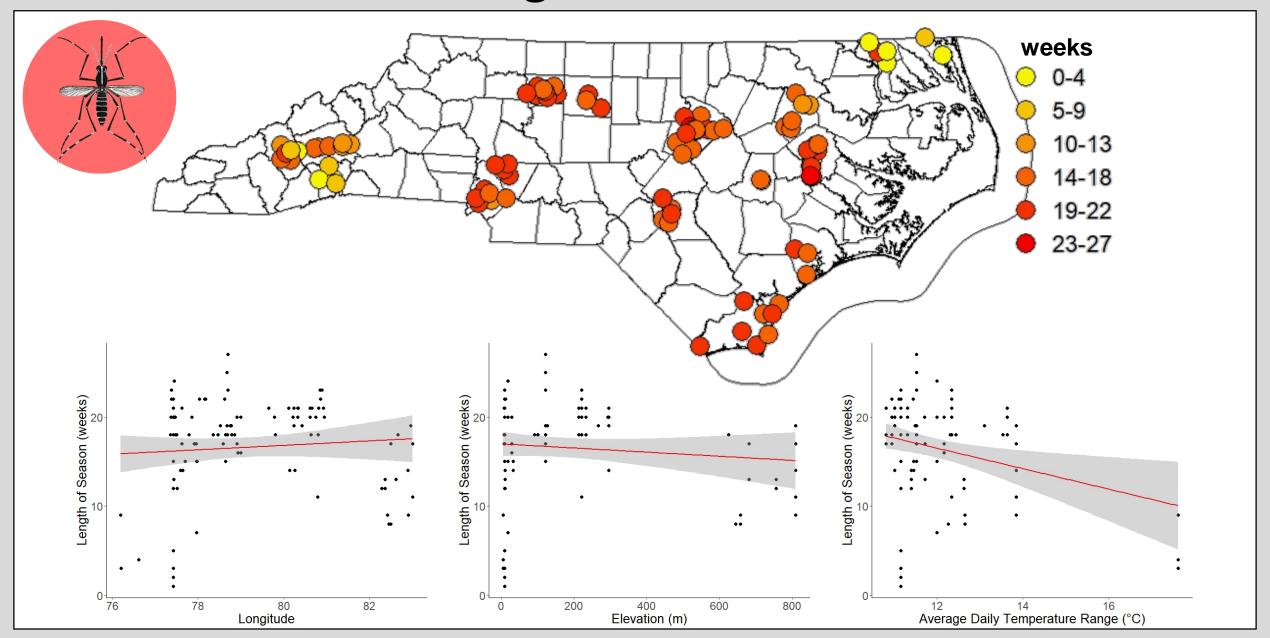












Discussion

- Little variation explained
- Contradictory patterns?

Next Steps

- Drought data
- Influence of landscape
- Comparison with 2017 data and beyond





Acknowledgements

- Michael H Reiskind
- Brian D Byrd
- Stephanie Richards
- Carl Williams
- Michael Doyle
- Diane Styers
- Mosquito Control Units
- Environmental Health Groups
- Municipal Health Agencies
- Student collectors/counters/identifiers





