

# ***Ochlerotatus taeniorhynchus***

Entomologist Challenge!

Gabrielle Sakolsky

Cape Cod Mosquito Control

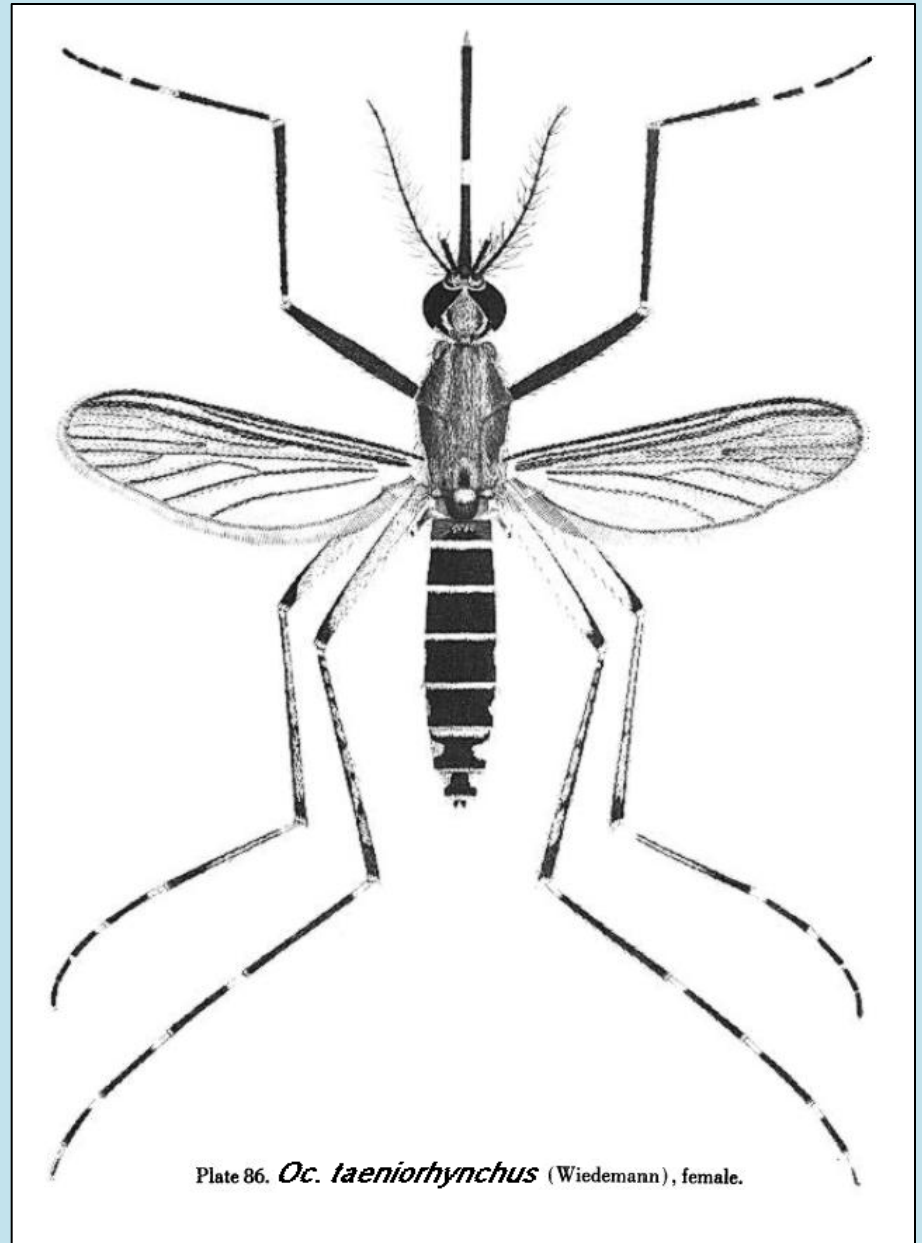
# Slide added for clarification:

- Habits similar to *Oc sollicitans*
- Aggressive daytime mammal biters
- Large host seeking flight range > 5 miles
- Multivoltine

Cape Cod Mosquito Control Project was the first organized mosquito control project in the Commonwealth of Massachusetts. The Project was organized by businesses and chamber of commerce in response to large salt marsh mosquito populations.

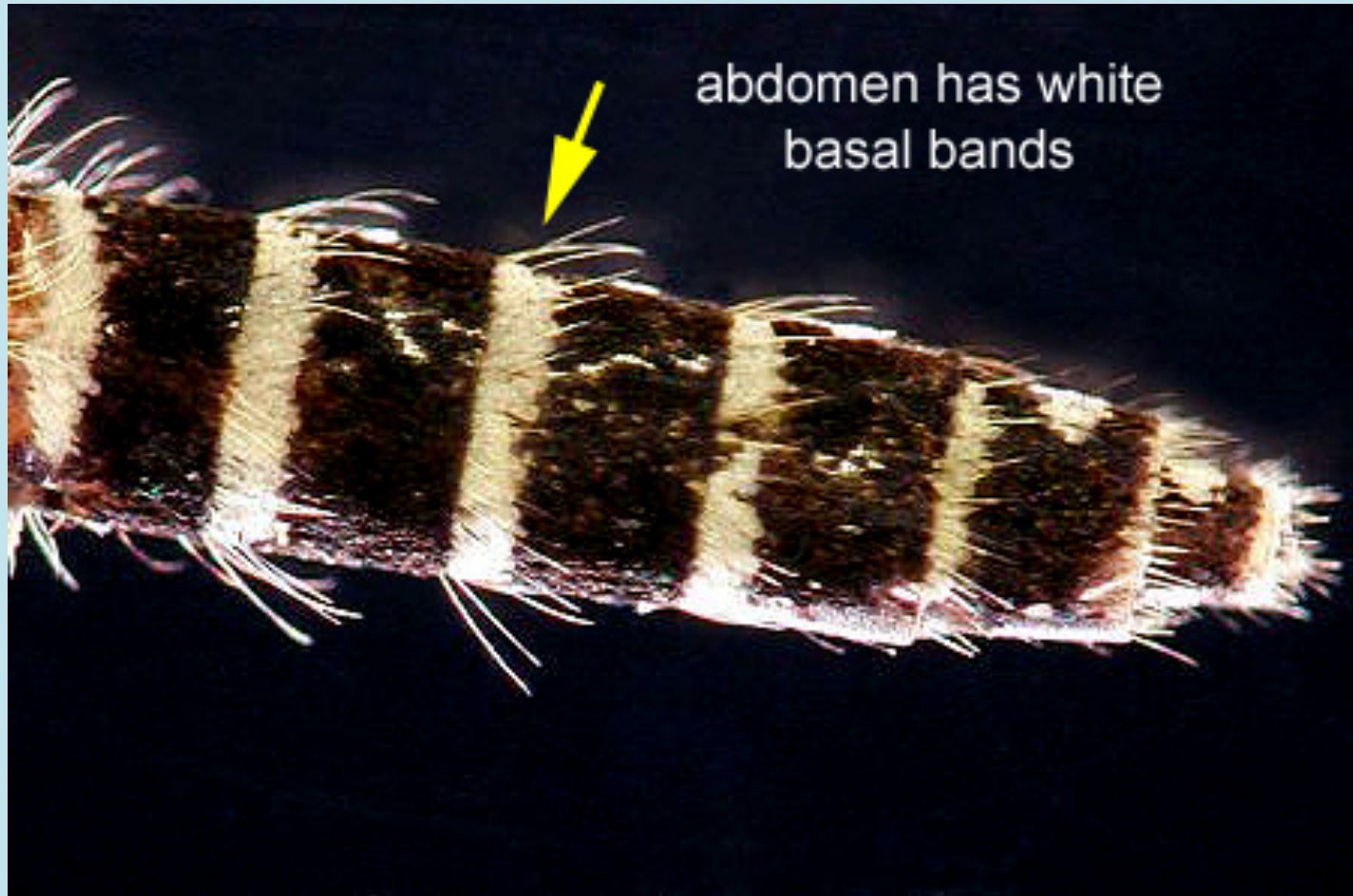
# ***Ochlerotatus taeniorhynchus***

1. Salt marsh
2. No stripe on abdomen
3. Banded proboscis
4. Hind tarsi banded at the base
5. Wing scales all dark



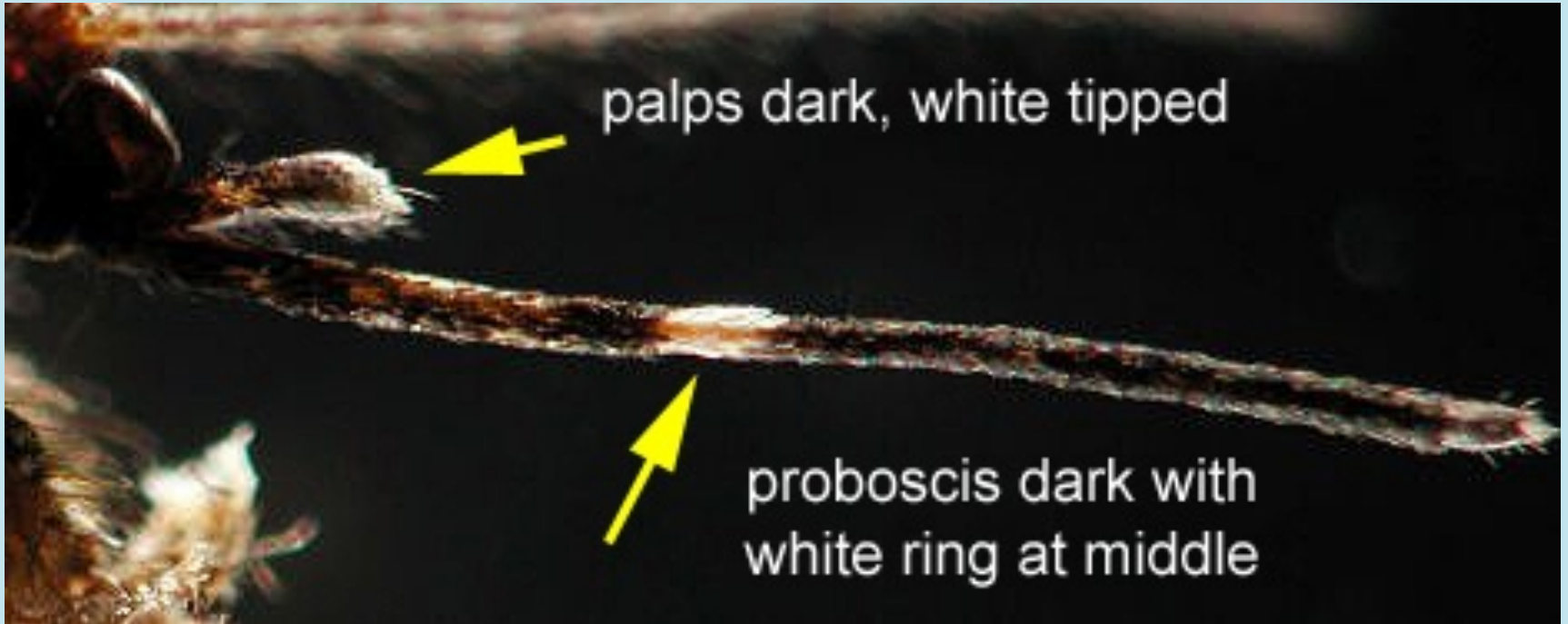


# ***Ochlerotatus taeniorhynchus***



Photograph by Michelle Cutwa, University of Florida.

# *Ochlerotatus taeniorhynchus*



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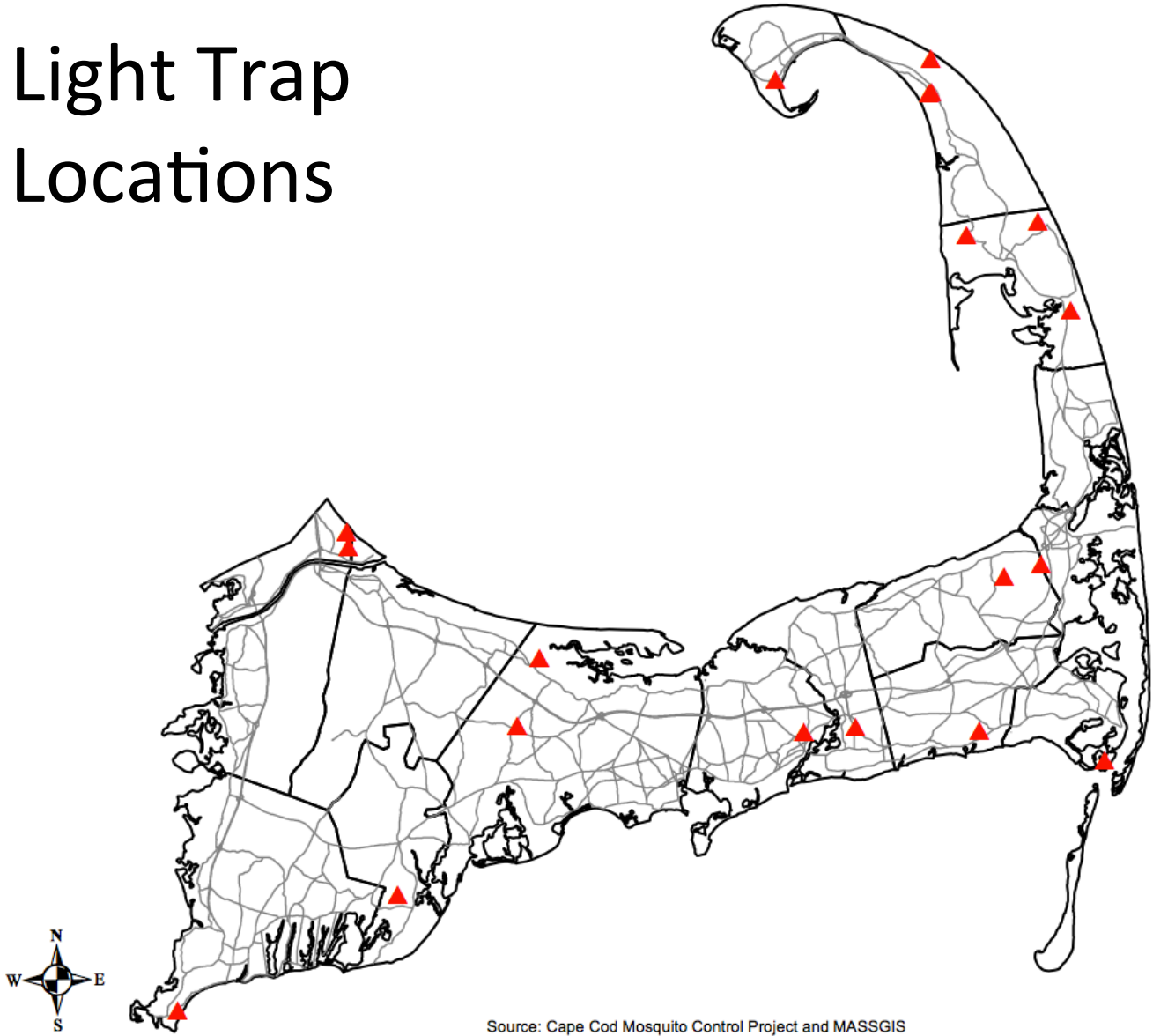
# Vector Competency in New England:

(preferential mammal biters)

- West Nile virus : potential, not significant
- Eastern Equine encephalitis: potential, not significant
- Dog heartworm : important vector



# Light Trap Locations



Source: Cape Cod Mosquito Control Project and MASSGIS

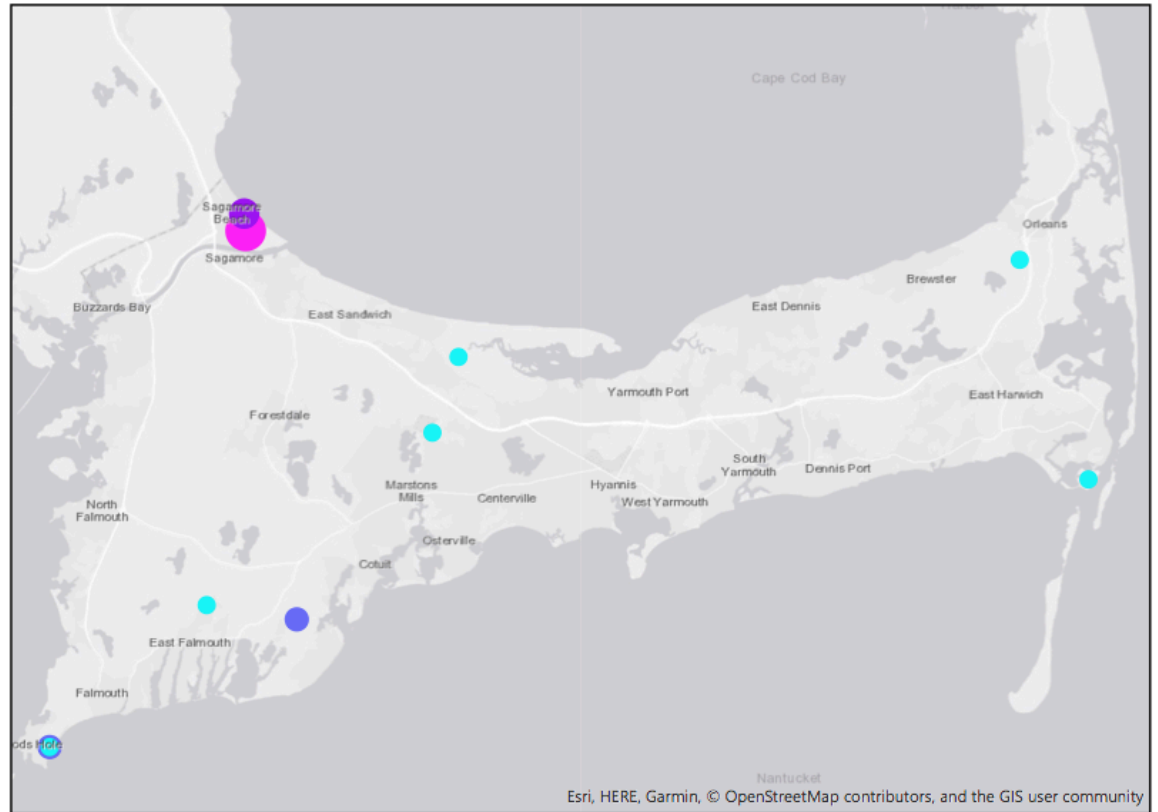
Author: Audrey Russano

# Cape Cod Mosquito Control Project *Oc. taeniorhynchus* (TAE) 2009 to 2018



TAE\_2009\_2018

PoolSize

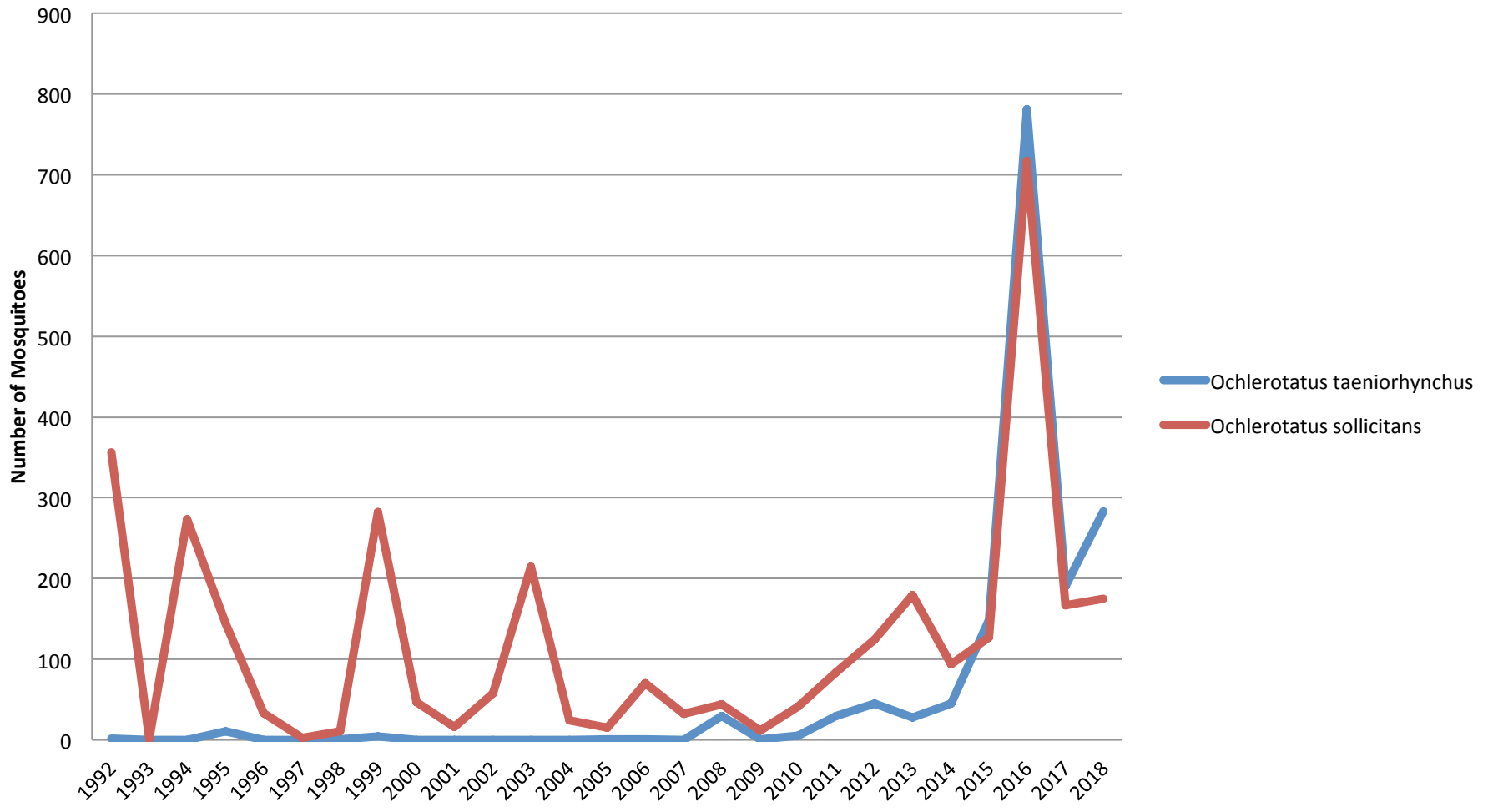


Source: ESRI, Cape Cod Mosquito Control Project  
Author: ARussano

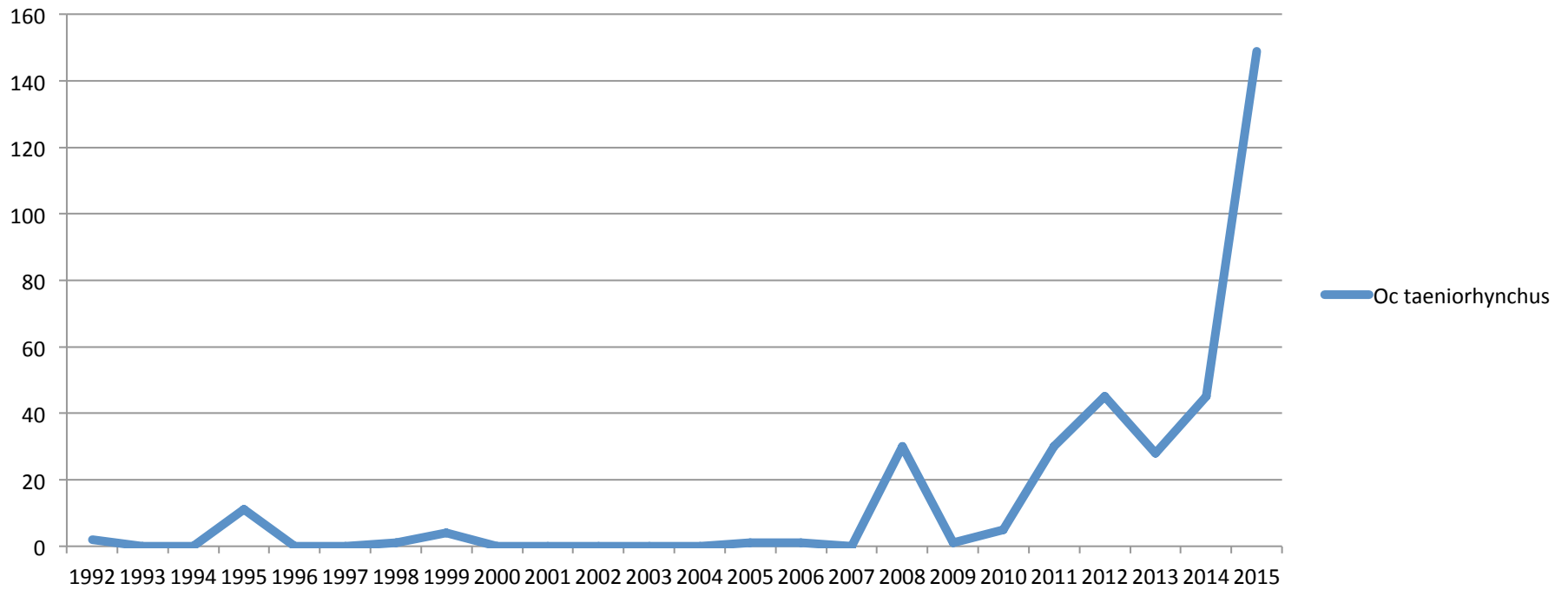
Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community



# Saltmarsh Mosquitoes Trapped in Barnstable County : 1992-2018



## Oc taeniorhynchus trapped in Barnstable County: 1992-2015



# Sources:

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*Eastwood, G. et al. 2013 Aedes taeniorhynchus vectorial capacity informs a pre-emptive assessment of West Nile virus in Galapagos. Scientific Reports. Vol. 3(1): 1519.*

*Manrique-Saide, P. 2010. Incrimination of the mosquito, Aedes taeniorhynchus, as the primary vector of heartworm, Dirofilaria immitis, in coastal Yucatan, Mexico. Med Vet Entomol, Vol. 24(4): 456-460.*

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*Turell, M. J. et al. 1994. Experimental Transmission of Eastern Equine Encephalitis Virus by Strains of Aedes albopictus and A. taeniorhynchus (Diptera: Culicidae). Journal of Medical Entomology, Vol. (31) 287-90.*

# Thanks!

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