



## Mosquito BEACONS Year 4 (2024 – 2025)

### The Mosquito BEACONS quarterly connections

Date: September 23<sup>th</sup>, 2023

#### Current Board of Directors:

Yosook Lee (PD)	University of Florida
Benjamin Allen (Co-PD)	City of Jacksonville Mosquito Control Division
Lindsay Campbell (Co-PD)	University of Florida
Bryan Giordano (Co-PD)	Broward County Mosquito Control Section
Elmer Gray (Co-PD)	University of Georgia
Dan Killingsworth (Co-PD)	Central Life Sciences
Claudia Riegel (Co-PD)	City of New Orleans Mosquito, Termite, and Rodent Control Board
Michael Riles (Co-PD)	Central Life Sciences

#### Program Updates from the Program Director

We thank all members for continuing support toward the Mosquito BEACONS working group. Thanks to your support, we were able to secure our 4<sup>th</sup> consecutive year of funding for our program. These funds will be used to support personnel, meetings, and workshop expenses during our project period (March 2024-February 2025).

We have identified an Entomologist in the Florida Department of Agriculture and Consumer Services who is monitoring all insects coming through shipping at the port of entries. We are working on scheduling a presentation to the group on port of entry surveillance.

The latest updates on Mosquito BEACONS activities were presented by the member of the BEACONS at the Invasion Science Research Symposium (Gainesville, FL), American Mosquito Control Association (Dallas, TX), and the Society of Vector Ecology meeting (Fort Collins, CO).

#### Partnership with Gulf South VECTOR

The first workshop this year was held in San Antonio, TX on August 28-29, 2024. Dr. Sonja Swiger from Texas A&M, Gulf South VECTOR, and the Mosquito BEACONS team has provide training for this advanced mosquito identification workshop. The next advanced mosquito identification training will be provided through DODD Short Course in Jan 2025. We are also working with Anastasia Mosquito Control District Disease Vector Education Center to improve K-12 resources on mosquito biology education.

#### BEACONS Invasive mosquito species dashboard

Dr. Lindsay Campbell and her student Olivia Magaletta have made their online invasive mosquito dashboard publicly accessible now. You can access those through BEACONS website or using the direct link below.



<https://www.arcgis.com/apps/dashboards/eca687d5e10841b2bc67beb83148a72f>



Please see the next page for a few pointers to the dashboard button to help you navigate the dashboard and see what it can offer. Olivia will be presenting this work at the next Florida Mosquito Control Association meeting in Orlando, FL in November, 2024.

**BEACONS Dashboard**

Legend- All data

- Culex lactator
- Culex coronator

Layers

- Aedes
- Mansonia titillans
- Haemagogus equinus
- Culex abominator
- Culex panocossa
- Culex declarator
- Culex nigripapulus
- Culex lactator
- Culex interrogator

Click 'Layer' button to see more species

2. Select species you want to see

4. You can click any on the year to jump to the corresponding year

3. Click play button to timelaps

1. Select Timescale to see species occurrence change over time

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## BEACONS receives International BEACONS Seed Grant from UF Invasion Science Research Institute

Yoosook Lee and Lindsay Campbell received funding from the University of Florida Invasion Science Research Institute to create an international working group addressing invasive species issues requiring global collaboration. As an inaugural project, we will hold a meeting in New Orleans with the help of Dr. Claudia Riegel on November 17-18, 2024 discussing a roadmap for invasive *Anopheles stephensi* elimination. This species is spreading in Africa in urban settings and is increasing the risk of malaria in multiple countries. It is suspected to have been introduced to Africa in 2012 via maritime cargo transport. Since its introduction to Djibouti in 2012, it has been detected in 6 other African countries which include Ethiopia, Sudan, Somalia, and Kenya in East Africa, and Ghana and Nigeria in West Africa. It is hypothesized that this species was introduced via maritime traffic. We hope to facilitate timely detection of invasive species and IPM strategy implementation through creating a new International BEACONS working group.

### Upcoming meetings

- 1) The Georgia Mosquito Control Association Meeting will be held at Amicalola Falls State Park from Oct 16-18, 2024 (<http://www.gamosquito.org/meeting.htm>).
- 2) The Texas Mosquito Control Association Meeting will be held in Fredericksburg, TX from Oct 28-30, 2024 (<https://www.texasmosquito.org/copy-of-fall-meeting>).
- 3) The South Carolina Mosquito Control Association Meeting will be held in on Hilton Head Island, SC from Nov 6-8, 2024 (<http://www.scmca.net>)
- 4) The Florida Mosquito Control Association Meeting will be held in Orlando, FL from Nov 4-7, 2024 (<https://www.yourfmca.org/wp-content/uploads/2024/09/CALL-FOR-PAPERS-8.30.24.pdf>).
- 5) The Annual Meeting of the Louisiana Mosquito Control Association will be held in New Orleans, LA from Dec 10-12, 2024 (<https://lmca.us/annual-conference/>).
- 6) The Virginia Mosquito Control Association meeting will be held at New Port News, VA from February 4-6, 2025.

### Suggestions for BEACONS working group

We have a suggestion box where you can put your ideas for Mosquito BEACONS (QR code on the right). We welcome any suggestions on the activities you want the Mosquito BEACONS working group to engage with.

[https://ufl.qualtrics.com/jfe/form/SV\\_ehySnhD0xErPsnc](https://ufl.qualtrics.com/jfe/form/SV_ehySnhD0xErPsnc)

