Mosquito monitoring in Germany

Nicolas Hohmeister, Dr. Kampen

Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health, Institute of Infectology, Südufer 10, 17493 Greifswald-Insel Riems, Germany

Although mosquito monitoring has recently been done extensively in Germany, data on the occurrence and distribution of mosquitoes are still scarce and hardly robust. In addition, it has been shown that invasive vector species increasingly emerge.

In the framework of continuing mosquito monitoring activities, my doctoral studies will concentrate on adult trapping and larval sampling in order to locate hotspots of vector distribution and to track the spread of invasive vector species. Trapping will be done using 30 traps, evenly distributed over Germany and operated at sites previously shown to have high species diversities and mosquito abundances. The traps will be run once per week for 24 hours from April to October 2019 to 2021.

Larval sampling will be conducted to follow up on the spread of the Asian bush mosquito Aedes japonicus and to check for reproduction at sites from where adult specimens of the Asian tiger mosquito Ae. albopictus have been submitted to the 'Mückenatlas' citizen science passive surveillance scheme. Should reproduction of Ae. albopictus be found, local authorities will immediately be informed to take further action.

Mosquitoes will be identified morphologically and genetically.

Contact:

Nicolas Hohmeister

Nicolas.Hohmeister@fli.de