

## Bat acoustics in Vietnam: a historical review of research and developing a national database

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Vietnam is recognised as an important country in Asia for bat research and conservation. To date, 126 bat species belonging to 36 genera and 8 families are known. However, the acoustic characters of many Vietnamese bats are still poorly studied. Between 2006 and 2018, we conducted a series of bat surveys in Vietnam with an emphasis on bioacoustic research. Echolocation calls of bats were recorded in different situations using PCTape; they were subsequently analysed with Selena software. We have obtained comprehensive data of echolocation calls for over 50 bat species of 7 families: Emballonuridae, Hipposideridae, Megadermatidae, Miniopteridae, Molossidae, Rhinolophidae and Vespertilionidae. Of these, the echolocation calls of the Hipposideridae and Rhinolophidae are sufficiently distinct to enable identification to species level. Our results have been included in a database of Vietnamese bat echolocation call, which will be used for monitoring, ecological studies and conservation. This presentation provides a historical review of research of echolocation of Vietnamese bats; our achievements between 2006 and 2018; and recommendations and potential trends for further research in the future.

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