

Resource Summary Report

Generated by [dkNET](#) on Sep 7, 2026

Joint time delay and Doppler passive acoustic 3D tracking of bats.

DOI:10.17504/protocols.io.iyjcfun

Type: Protocol

Proper Citation

Ales Mishchenko, Herve Glotin 2017. Joint time delay and Doppler passive acoustic 3D tracking of bats.. protocols.io dx.doi.org/10.17504/protocols.io.iyjcfun

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.iyjcfun>

Authors: Ales Mishchenko, Herve Glotin

Summary: The method described here is from the PLoS ONE paper entitled "Joint time delay and Doppler passive acoustic 3D tracking, applied to studies of bats in natural habitats". This method detects acoustic events (possible bat calls) and filters them according to their consistency with each other as well as with extracted kinematics of the bat. This allows to filter out false detections, related to echoes and noise, improves the reconstruction of bats trajectories and allows to study bats behavior. This method (with another parameters) can be also potentially applied to the extraction of the trajectory of any fast moving objects, in particular, sound-emitting machinery, such as trajectories of cars before and after accident, and many others. This protocol (together with bat-related parameters, such as frequency ranges, intervals between calls, etc) is designed to reproduce the method of Joint time delay and Doppler passive acoustic 3D tracking in a case of tracking bats by an array of 4 ultrasonic microphones.

Affiliations: ,

Version: 1

Publication Date: 2017

Proper Citation: Ales Mishchenko, Herve Glotin 2017. Joint time delay and Doppler passive acoustic 3D tracking of bats.. protocols.io dx.doi.org/10.17504/protocols.io.iyjcfun

Record Creation Time: 20210329T220529+0000

Record Last Update: 20210329T220941+0000

Data and Source Information

Source: