

Midwest Bat Hub Q1 Partner Meeting

3/12/2025



Agenda

**Midwest
Bat Hub
Updates**

**Volunteer
Program**

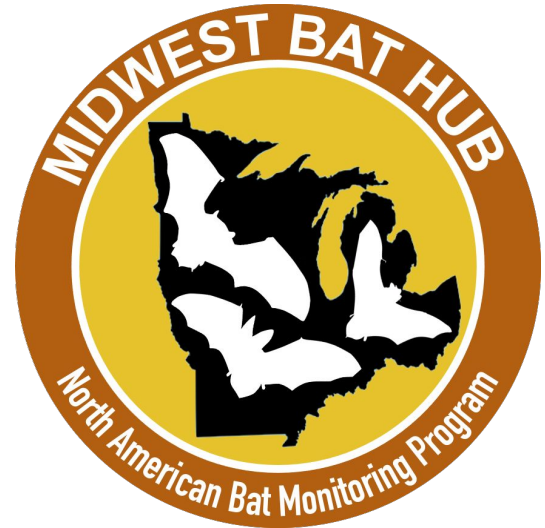
**Data
Processing
Status
Update**

**Data
Processing
Resources**

**Looking
Ahead and
Q&A**

Midwest Bat Hub Updates

- Hub currently funded through May 2025
- We anticipate not being able to assist partners beyond this date
- Pending projects/data processing agreements with state, federal, and tribal partners will be finished by May
- Reach out NOW if you need assistance



1-1 Partner Meetings - Review

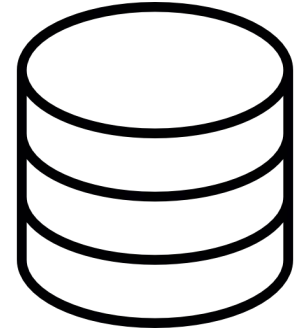
- Met with state and tribal partners
January–February 2025
- Interest in report-generating scripts
- Most partners in good position with their data processing
- Many partners have legacy data that need processing
- Assisting state partners as necessary
 - Fixing errors on the NABat partner portal, scripts for data processing etc...
 - Email us about your data processing needs as well

Thanks for meeting with us!



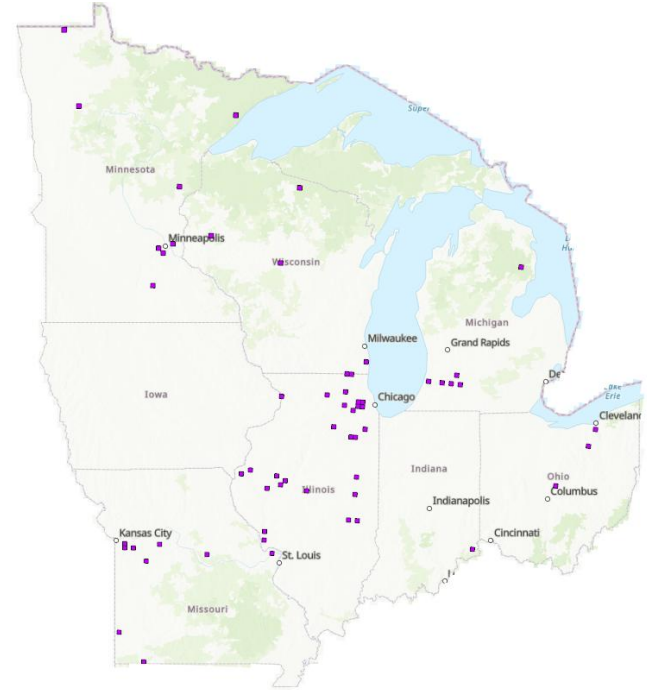
Partner Meetings - Review

- Hub Objective—document legacy data
- Helps fulfill Objective 1 of our agreement with the USFWS
- Building comprehensive list of legacy data identified by partners
 - To be submitted to USFWS
 - Underscores need for a hub
 - Let us know if you have legacy data! We will send you a questionnaire of info we need

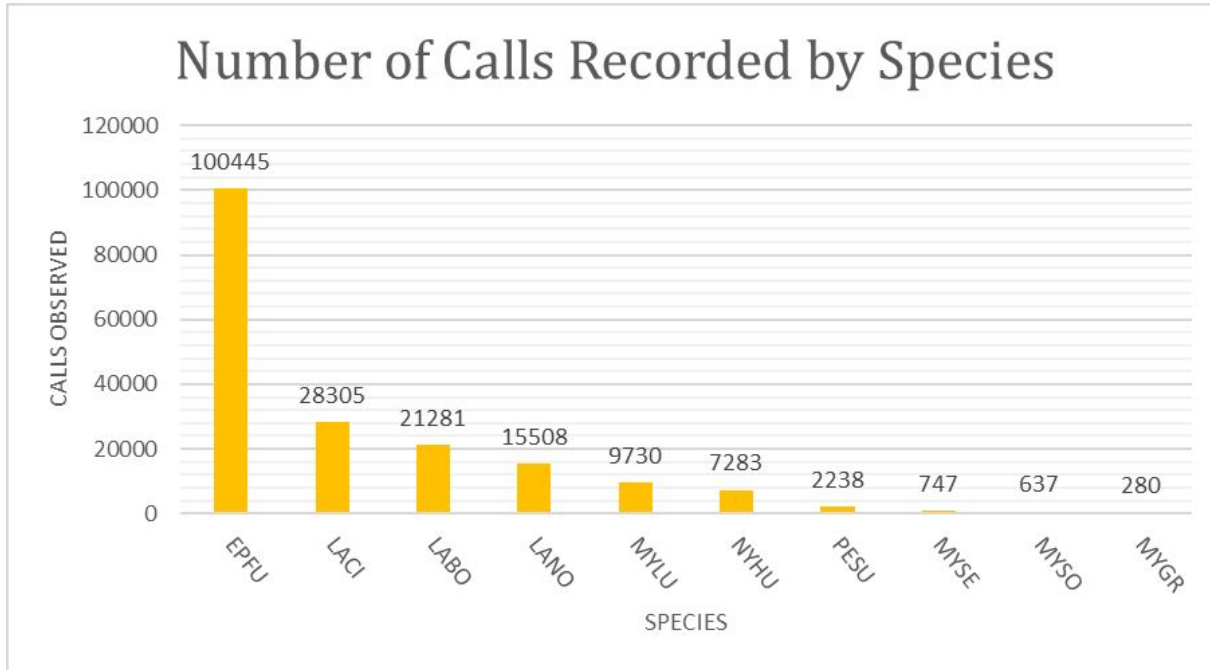


2024 Volunteer Program

- Reports generated for 44 volunteers
 - Reports shared with state biologists per request
- Data processing for NABat in progress
 - About halfway done
- Processed NABat data will also be available for partners upon request
 - Reach out to us for more information



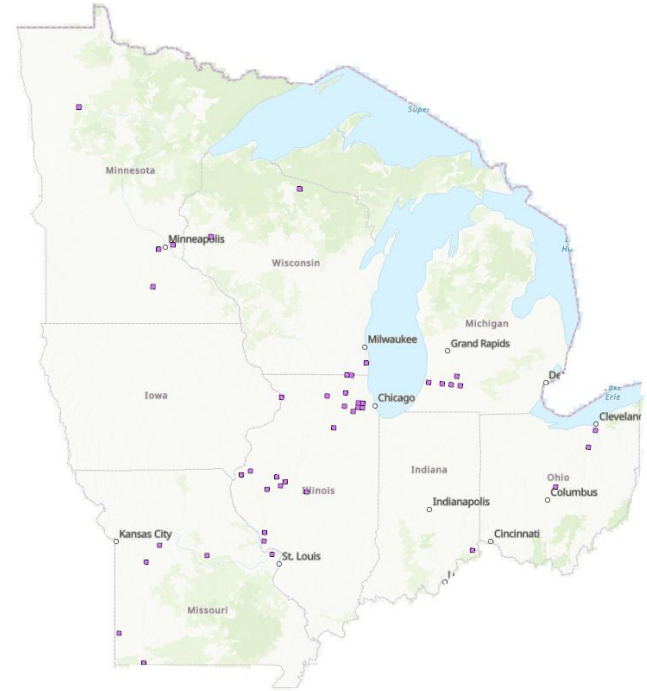
2024 Volunteer Program



*Only AutoIDs, not manually vetted

2025 Volunteer Program

- 43 returning volunteers in 2025
- Volunteers holding on to equipment
 - Independently program detectors
 - Prepare site and equipment for deployment before the season
- Raw unprocessed data stored by the I for possibility of future analysis
- Few exceptions for data processing
 - Volunteers in Conservations Area
 - Volunteers in Minnesota
- 2026 Volunteer Program unlikely



Volunteer Data Processing Status Updates

9/14/2024

11/13/2024

1/15/2025

3/31/2025

5/01/2025

2022 Season

2021 Season

2024 Season

2024 Season

2023 Season

Submitted to NABat

Submitted to NABat

Finish Reporting

Submit to NABat

Submit to NABat

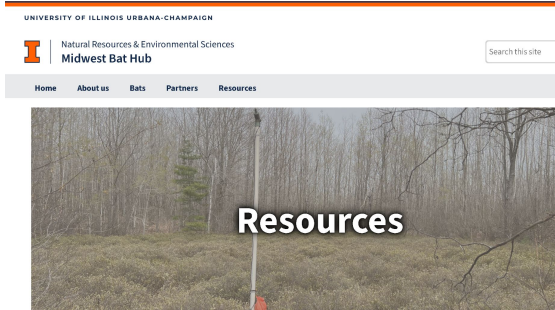
(~50% completed)

Partner Data Processing Status Updates

- Continuing data processing assistance for various partners and projects
 - 3 new projects created in 2025
 - Lots of acoustic data already processed and uploaded
- Prioritizing non-acoustic data for our NPS agreement
 - Targeting 6 parks' non acoustic data by May 2025



Data Processing Resources: MWBH Website



> Stationary Acoustics

> Mobile Acoustics

> Colony Counts

> Emergence Counts

> Captures

> NABat Workflows

> Scripts and Apps

- Website will remain in place, though updates will be infrequent
- Data processing resources to be posted to the resource page
 - User guides, federal agency protocols, R scripts, etc.

<https://midwestbathub.nres.illinois.edu/resources/>

Data Processing Resources: NABat

- Entire process from creating a project in the Partner Portal to final uploads
- Quick links → Training Videos
 - Getting Started
 - Acoustic Surveying
 - Processing Acoustic Data
 - Data Prep & Uploading
 - Community Perspectives
 - Working w/ Large Datasets
- R packages, metadata forms, guidance docs, and more!

<https://www.nabatmonitoring.org/resources>



NABat NORTH AMERICAN BAT MONITORING PROGRAM

The Partner Portal >

Book a tech support appt. >

Search: []

About Get Involved **Resources** News Events Products

Create an Account Plan Your Project Collect Data Prepare/Process Upload Data Data QA/QC Get Data Species Codes Quick Links

RESOURCES

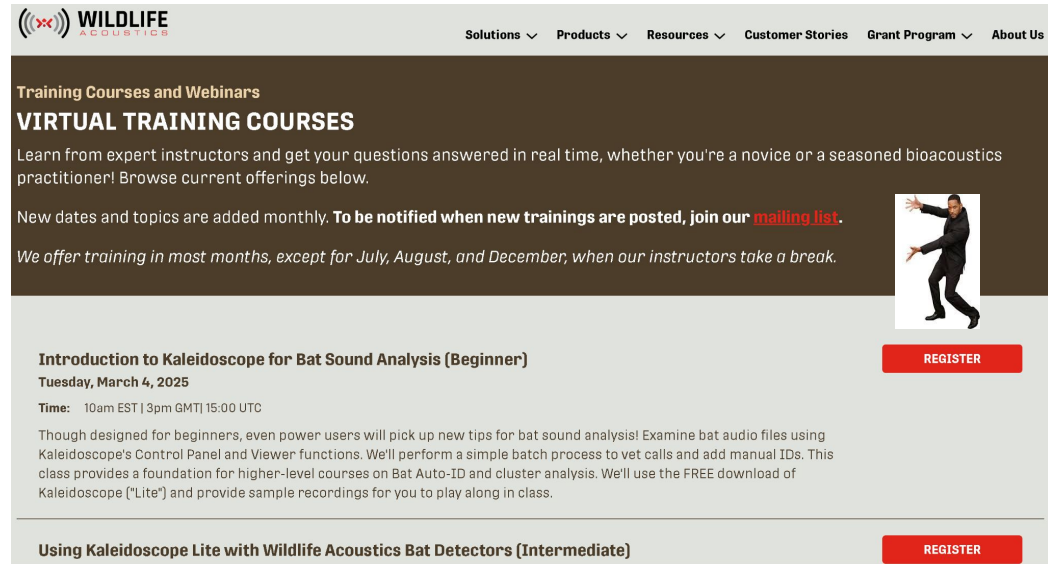
Basic instructions for the NABat workflow can be accessed through the above buttons.

NABat currently accepts data from the following survey types:

- Internal Roost Counts
- Emergence Counts
- Stationary Acoustic Surveys
- Mobile Acoustic Surveys
- Capture Records

Data Processing Resources: Kaleidoscope Pro

- Training webinars available almost every month
- Webinars are thorough and easy to understand – also recorded for later viewing
- KPro User Guide available but long
- Refer to NABat guidance (resources tab) for quick, program-specific information



The screenshot shows the 'WILDLIFE ACOUSTICS' website. The navigation bar includes 'Solutions', 'Products', 'Resources', 'Customer Stories', 'Grant Program', and 'About Us'. The main heading is 'Training Courses and Webinars' with a sub-heading 'VIRTUAL TRAINING COURSES'. The text describes learning from expert instructors and provides a link to a mailing list. A photo of an instructor is shown. Two course listings are visible: 'Introduction to Kaleidoscope for Bat Sound Analysis (Beginner)' and 'Using Kaleidoscope Lite with Wildlife Acoustics Bat Detectors (Intermediate)'. Each listing includes a date, time, and a 'REGISTER' button.

WILDLIFE ACOUSTICS

Solutions ▾ Products ▾ Resources ▾ Customer Stories Grant Program ▾ About Us

Training Courses and Webinars

VIRTUAL TRAINING COURSES

Learn from expert instructors and get your questions answered in real time, whether you're a novice or a seasoned bioacoustics practitioner! Browse current offerings below.

New dates and topics are added monthly. **To be notified when new trainings are posted, join our [mailing list](#).**

We offer training in most months, except for July, August, and December, when our instructors take a break.

Introduction to Kaleidoscope for Bat Sound Analysis (Beginner)
Tuesday, March 4, 2025
Time: 10am EST | 3pm GMT | 15:00 UTC

Though designed for beginners, even power users will pick up new tips for bat sound analysis! Examine bat audio files using Kaleidoscope's Control Panel and Viewer functions. We'll perform a simple batch process to vet calls and add manual IDs. This class provides a foundation for higher-level courses on Bat Auto-ID and cluster analysis. We'll use the FREE download of Kaleidoscope ("Lite") and provide sample recordings for you to play along in class.

Using Kaleidoscope Lite with Wildlife Acoustics Bat Detectors (Intermediate)

<https://www.wildlifeacoustics.com/resources/training-courses>

Data Processing Resources: Vesper Trainings (\$)

- Paid trainings available for manually vetting
- Manual vetting required for mobile acoustic surveys, recommended for stationary acoustics



Training in Acoustic Identification

Vesper periodically offers online classes for:

- Echolocation 101/Best Practices for Acoustic Monitoring and Manual Vetting
- Acoustic ID of 20 Eastern US/Canada bats
- Acoustic ID of 22 Western US/Canada bats
- Acoustic ID of Neotropical Bats (30 species)
- SonoBat Beginner
- SonoBat Advanced

We can also provide private training for subregions (e.g., Southeast, Midwest, etc). In-person training for individuals and institutions is also possible.

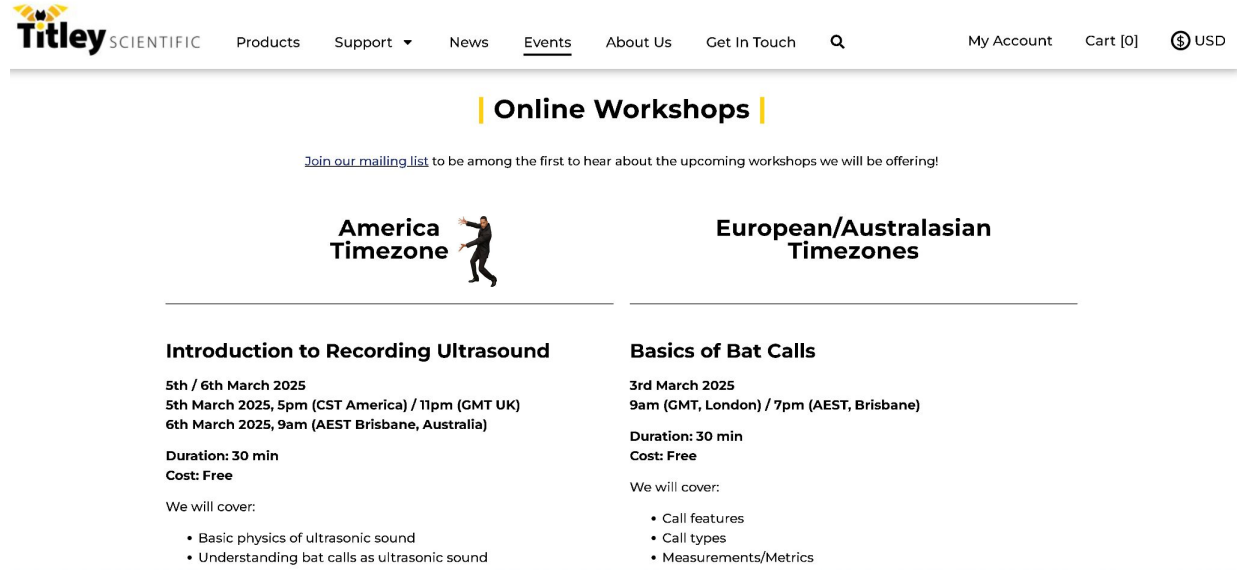
Perfect for graduate students, wildlife professionals, and acoustic enthusiasts!

Prices from \$50+ and class times from 2 hrs to 9 hrs (3 afternoons). Price and time depends on region being taught.

<https://www.batacousticsurveys.com/trainings>

Data Processing Resources: Titley Scientific

- Online workshops are free



The screenshot shows the Titley Scientific website's 'Online Workshops' page. The navigation bar includes 'Products', 'Support', 'News', 'Events', 'About Us', 'Get In Touch', 'My Account', 'Cart [0]', and 'USD'. The main heading is 'Online Workshops', followed by a link to 'Join our mailing list'. Two workshop categories are listed: 'America Timezone' and 'European/Australasian Timezones'. Under 'America Timezone', the workshop 'Introduction to Recording Ultrasound' is detailed with dates (5th/6th March 2025), times (5pm CST America / 11pm GMT UK / 9am AEST Brisbane), duration (30 min), and cost (Free). Under 'European/Australasian Timezones', the workshop 'Basics of Bat Calls' is detailed with date (3rd March 2025), time (9am GMT London / 7pm AEST Brisbane), duration (30 min), cost (Free), and a list of topics: Call features, Call types, and Measurements/Metrics.

Titley SCIENTIFIC Products Support News Events About Us Get In Touch Q My Account Cart [0] USD

| Online Workshops |

[Join our mailing list](#) to be among the first to hear about the upcoming workshops we will be offering!

America Timezone

European/Australasian Timezones

Introduction to Recording Ultrasound

5th / 6th March 2025
5th March 2025, 5pm (CST America) / 11pm (GMT UK)
6th March 2025, 9am (AEST Brisbane, Australia)

Duration: 30 min
Cost: Free

We will cover:

- Basic physics of ultrasonic sound
- Understanding bat calls as ultrasonic sound

Basics of Bat Calls

3rd March 2025
9am (GMT, London) / 7pm (AEST, Brisbane)

Duration: 30 min
Cost: Free

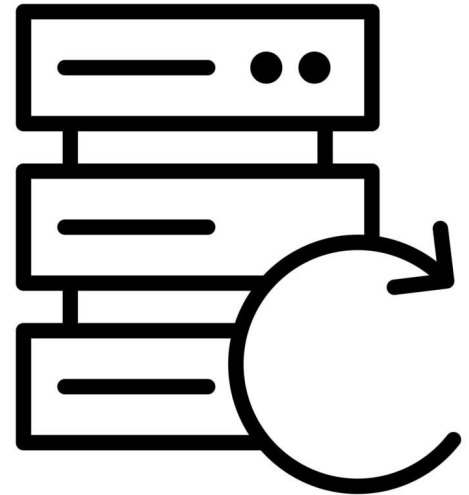
We will cover:

- Call features
- Call types
- Measurements/Metrics

<https://www.titley-scientific.com/events/>

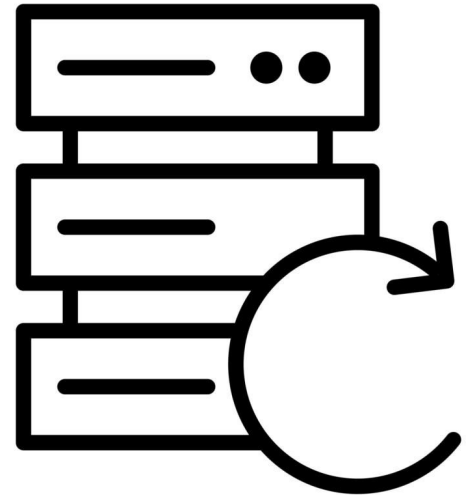
Recommendations

- Have multiple people listed on your NABat projects
 - Protects access to projects in the face of employee turnover and funding constraints
 - Redundancy is essential!
 - People to add:
 - Long-term project managers, current working staff, and technicians to upload data to the Portal
- Know where your data are! Can it be found if you're gone?
- Backup your data!



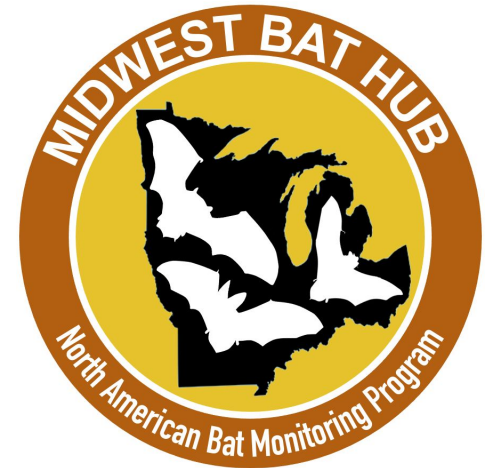
Recommendations

- Backup your data!
 - Raw data
 - Processed data (if metadata has been attributed to audio files)
 - Outputs from AutoID Software
- Versioning and metadata documentation are essential
- Document workflows for future analysis



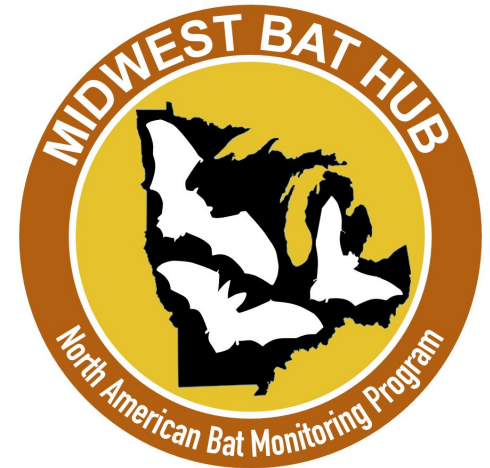
Looking Ahead

- 2025 Winter colony counts
 - Datasheets available for free download and use at Zenodo
 - Updated NABat colony count template coming soon
 - Revised database that matches new template will follow
- Data Tracker Database
 - Trialed for MWBH-NPS data management
 - Will be posted on Zenodo in 2025 to manage your legacy data
- Get 2024 Data up to NABat Partner Portal!
 - Contact us for assistance soon



Looking Ahead

- Q2 Partner meeting will recap history of Hub's activities and achievements
 - Tentatively scheduled for the week of May 5th
- Hub staff scheduled to stay on through the summer, but earlier changes in staffing are possible and should be anticipated
- NABat technical outreach team is the best point of contact for all things NABat moving forward beyond summer 2025
 - <https://www.nabatmonitoring.org/our-team>



Q&A

Questions?

Comments?

Concerns?