

A close-up photograph of a small, dark-colored bat, likely a little brown bat, lying on a light-colored surface. A human finger is gently touching the bat's head. The bat's mouth is slightly open, showing its small teeth and tongue. The background is a plain, light-colored surface.

No! Stop touching me!

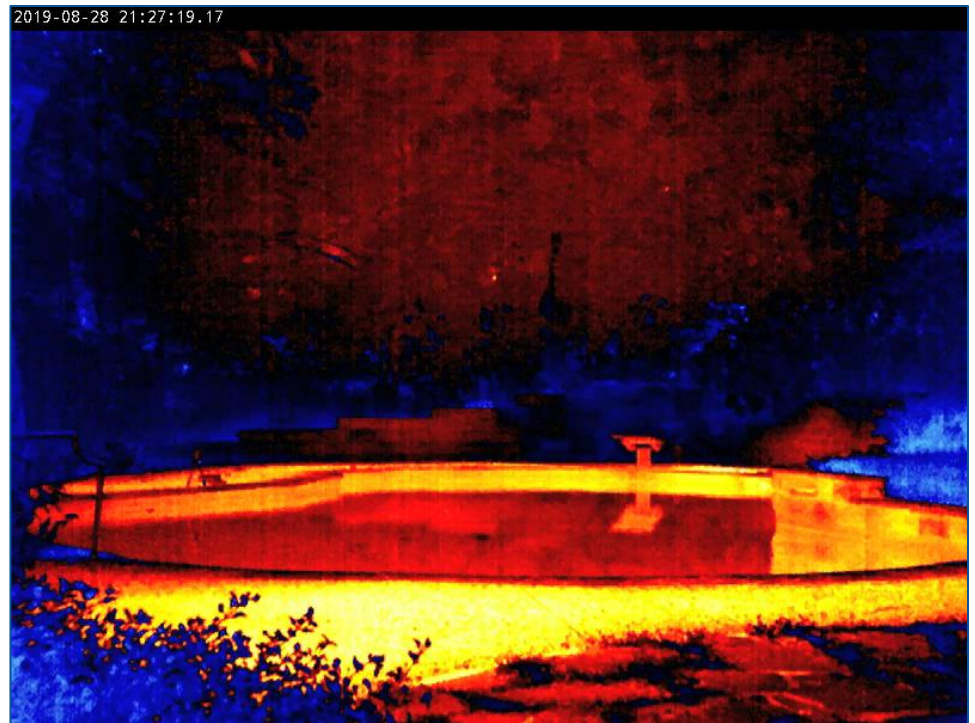
**Batty
Buddies:
Basics**

**Ranger Izzy
Park Interpreter
Ray Roberts- Johnson
Branch**

I AM THE NIGHT!

About me

- Worked with bats since 2009
- Have handled 800+ bats
- 13 different species
- 4 States
- Windfarms, telemetry, white-nose syndrome, residential swimming pools





**Telemetry with
Indiana Bats
(*Myotis sodalist*)**





Artificial trees to
mitigate the loss of
natural roosting sites

Bats are important



Pest control



Pollinators and seed dispersers



Threats to bats

Loss of habitat and degradation



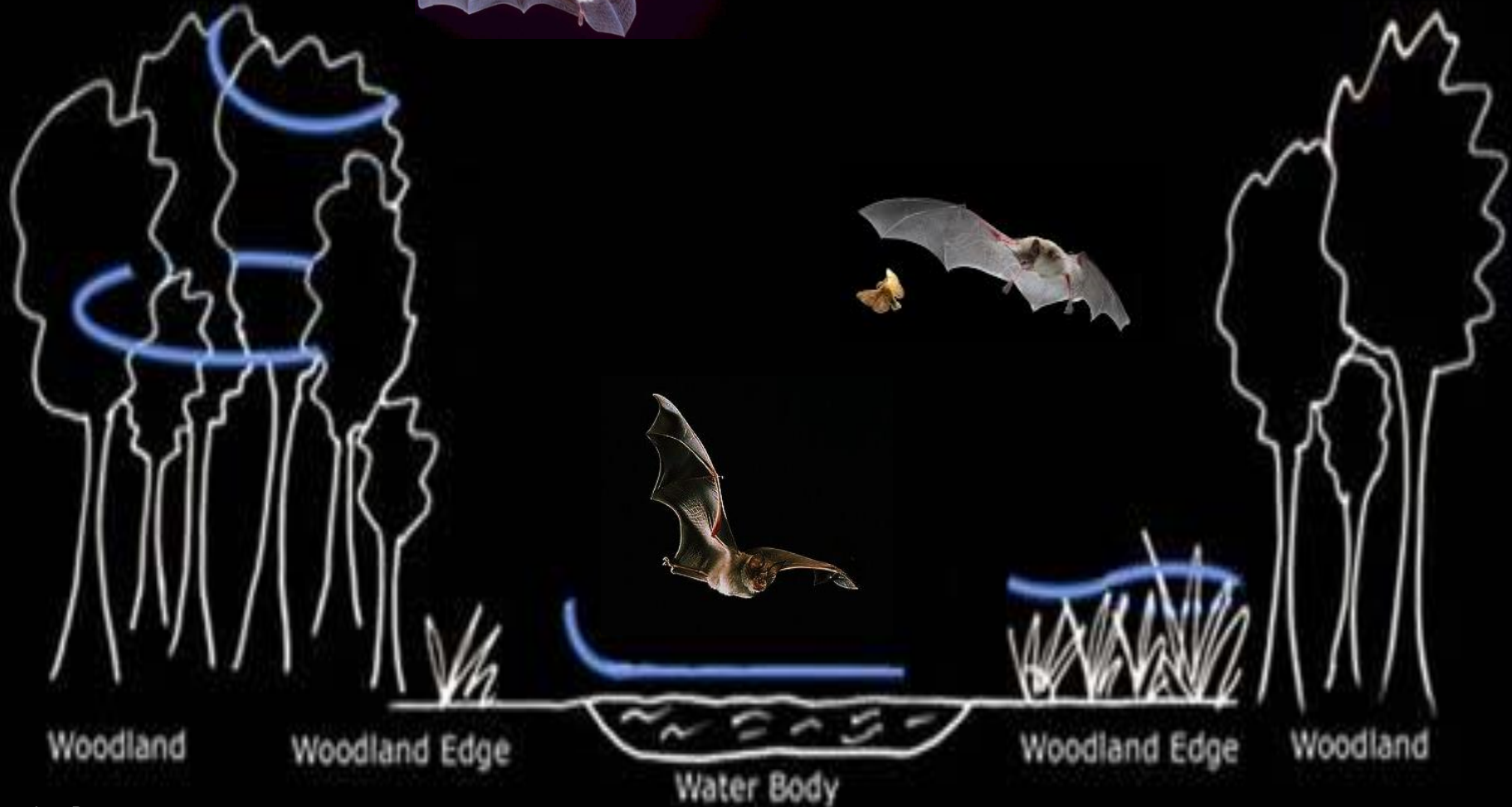
Land-Use Change



Disease



Are Bats Nocturnal?



EGYPTIAN FRUIT BAT

Bats can fly



Scientifically sound & accurate information about

BATS OF THE WORLD



BUMBLEBEE BAT

The tiniest, most adorable mammal in the world.



SPOTTED BAT

Sports the largest ears in North America. One of them is probably listening to you right now.

HOARY BAT
Can migrate from Canada to Bermuda when it gets too chilly, but can never take off its winter coat.



INDIAN FLYING FOX

The world's biggest bat. Uses its massive size to take down formidable prey such as mangoes and bananas.



CALIFORNIA LEAF-NOSED BAT
The only North American bat that can flip people off using its nose.

SWORD-NOSED BAT

Many researchers believe that this bat is overcompensating for something.



PAINTED BAT

Roosts in bird nests and huts. Needs to get a job already.



MEXICAN FREE-TAILED BAT

One of the fastest bats in the world. Should not be fed after midnight.



VAMPIRE BAT

It drinks blood and is the only bat that knows how to sprint. How much more nightmare fuel do you need?



HARDWICKE'S WOOLY BAT

Takes 'living dangerously' to a new level by roosting inside carnivorous pitcher plants.



HONDURAN WHITE BAT

Genetically engineered by Japanese scientists to maximize cuteness output per ounce.



33 Species Found in Texas

1,300+ Bats Worldwide



*Greetings from
the Congress Avenue Bridge in Austin*

The Usual Suspects



Hoary (*Lasiurus cinereus*)



Silver-haired (*Lasionycteris noctivagans*)



Eastern red (*Lasiurus borealis*)



Mexican free-tailed (*Tadarida brasiliensis*)



Tri-colored (*Perimyotis subflavus*)



Evening (*Nycticeius humeralis*)



Big Brown Bat

(*Eptesicus fuscus*)

Discovery in 2016!

New to north-central Texas

Canyon Bat
Parastrellus hesperus





Bats echolocate



Ultrasound & infrasound

Sound waves with a frequency *too low* for the human ear to hear are called **infrasound**.

INFRA SOUND

Sound waves with a frequency *too high* for the human ear to hear are called **ultrasound**.

ULTRA SOUND



Animals such as whales, elephants and hippopotamus use infrasound to communicate over distances.



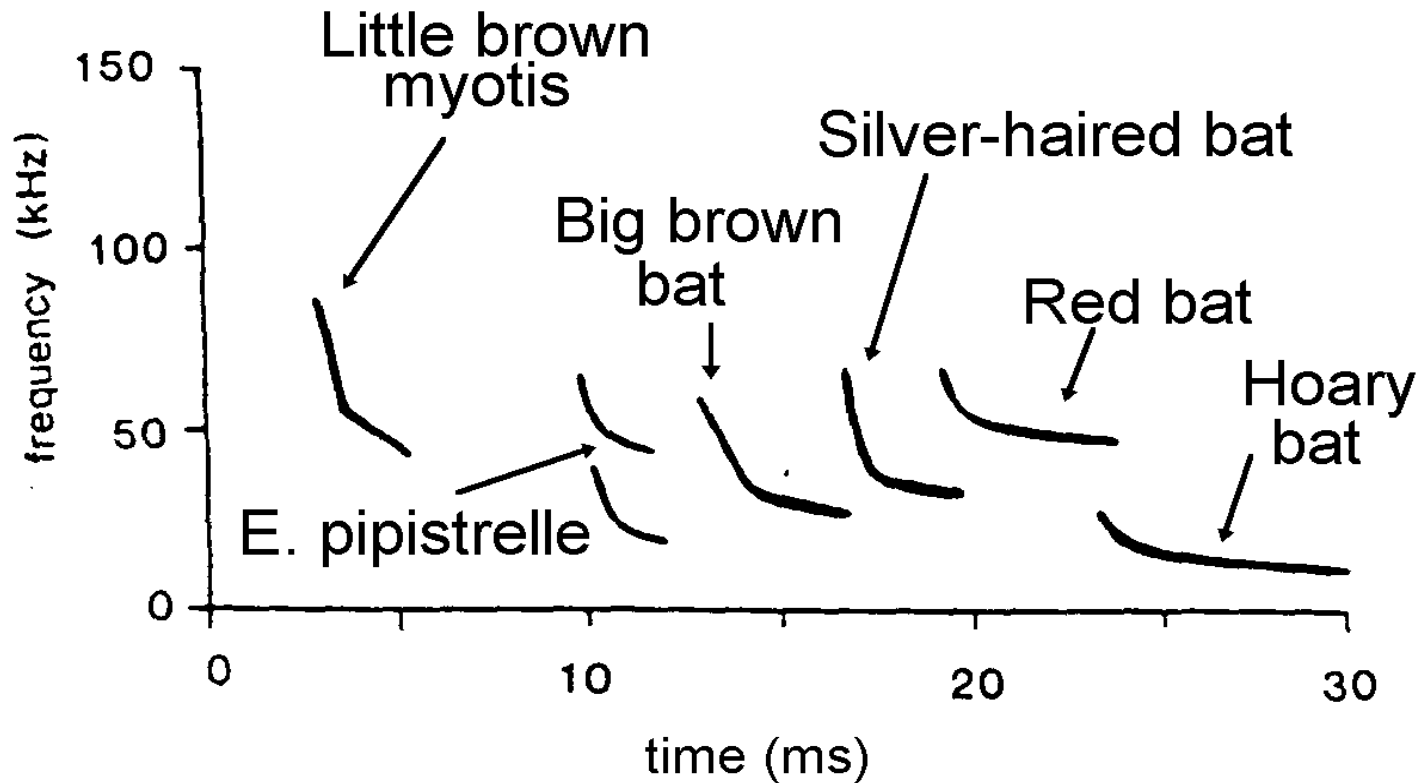
Animals such as dogs, bats, birds and insects can hear ultrasound.



© Dr Peter John Taylor



Identify species by their calls



Fenton (1996, Some notes about the echolocation of bats)



THE GOOD, THE BAD, & THE UGLY



Spotted Bat
(*Euderma maculatum*)



Rafinesque's Bat
(*Corynorhinus rafinesquii*)



Honduran White Bat
(*Ectophylla alba*)



Flying Fox

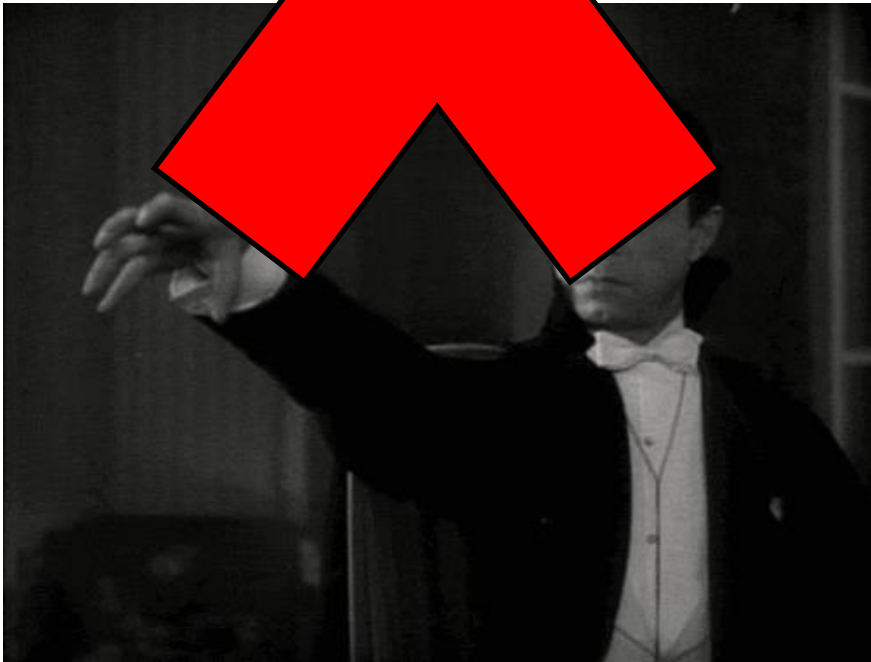


Common Vampire Bat
(*Desmodus rotundus*)

White-winged Vampire Bat
(*Diaemus youngi*)



**Hairy-legged
Vampire Bat**
(*Diphylla
ecaudata*)



Latin America





Wrinkled-faced bat
(*Centurio senex*)

You Can Help Bats!

- What to do if you have a swimming pool!
 - Citizen Science Helps Uncover the Secrets to a Bat-Friendly Swimming Pool in an Urban Environment
- Add a Bat Box!
 - BCI Print Out Available
- Batty Basics Around the House
 - BCI Print Out Available



A close-up photograph of a small, dark-colored bat pup lying on a light-colored surface. A human finger is positioned above the pup, with the tip just above its head. The pup's mouth is slightly open, showing small teeth.

No! Stop touching me!

**Batty
Buddies:
Myths
July 2nd**

**Batty Buddies: Basics
June 25th**

I AM THE NIGHT!



Questions?