

Guide for Acoustic Identification of Florida bats

Family:

Vespertilionidae

Database species code

Lasbor or Labo

See glossary for explanation of codes

Scientific name

Lasiurus borealis (Müller, 1776)

Taxonomy follows Simmons and Cirranello (2021)

Call shape

To view call graphics click on the camera icon on the right. You can then move through all images by using the left or right arrow keys. A left mouse click returns to the fact sheet.



Typical North American Vespertilionid pulses with FM reversed J broadband pulses of short duration. However, distinctive for the genus *Lasiurus* the Fmin shifts up and down. Note that commute calls are longer duration, have a lower frequency and are narrow band.

Vocal signature parameters

Parameters	N	Min	Max	Mean	St.Dev	10%	25%	75%	90%
Dur	379	2.01	8.99	5.46	1.87	2.87	4.08	7.04	7.91
TBC	354	2.8	3255.4	316.7	394.7	69.4	105.5	341.7	761.8
Fmin	379	37.04	44.20	39.98	1.78	37.74	38.46	41.35	42.55
Fmax	379	39.80	81.63	55.87	8.90	44.15	49.08	61.54	67.80
BW	379	1.34	41.72	15.88	8.82	4.70	8.90	21.23	27.95
Fmean	379	39.02	48.96	44.03	2.62	40.36	41.89	46.16	47.40
Fk	379	37.74	49.69	42.57	2.44	39.41	40.61	44.20	45.98
FcH1	379	18.52	22.47	20.28	0.90	19.14	19.61	20.94	21.62
Fc	379	37.04	44.94	40.56	1.80	38.28	39.22	41.88	43.24
FcH3	379	55.56	67.41	60.84	2.71	57.42	58.83	62.82	64.86
Sc	379	-41.80	169.43	35.10	28.81	5.33	14.57	50.35	71.13
Pmc	379	1.70	107.80	37.87	22.28	10.66	20.35	50.40	68.92

Reported by Szewczak (2018)

Lasbor	Fc	Fmax	Fmin	FmaxE	dur	uppr slp	lwr slp	slp @ Fc	total slp
Mean	40.4	67.6	40.2	43.8	6.8	10.0	2.0	0.6	4.4
Max	44.0	81.0	43.0	49.0	9.1	16.0	3.2	1.6	7.1
Min	37.0	54.0	37.0	39.0	4.6	4.4	0.7	-0.4	1.7

Source of acoustic data

Chris Corben

Known counties of distribution

- Alachua
- Baker
- Bay
- Bradford
- Brevard
- Broward
- Calhoun
- Charlotte
- Citrus
- Clay
- Collier
- Columbia
- De Soto
- Dixie
- Duval
- Escambia
- Flagler
- Franklin
- Gadsden
- Gilchrist
- Glades
- Gulf
- Hamilton
- Hardee
- Hendry
- Hernando
- Highlands
- Hillsborough
- Holmes
- Indian River
- Jackson
- Jefferson
- Lafayette
- Lake
- Lee
- Leon
- Levy
- Liberty
- Madison
- Manatee
- Marion
- Martin
- Miami-Dade
- Monroe
- Nassau
- Okaloosa
- Okeechobee
- Orange
- Osceola
- Palm Beach
- Pasco
- Pinellas
- Polk
- Putnam
- Santa Rosa
- Sarasota
- Seminole
- St. Johns
- St. Lucie
- Sumter
- Suwannee
- Taylor
- Union
- Volusia
- Wakulla
- Walton
- Washington

Conservation status

Least concern; Ver.3.1 ; Population trend - stable; evaluated 2016. (I.U.C.N. 2017.)

Notes

Baird et al. (2015) appeared to make a strong case of separating the genus *Lasiurus* into 3 genera; proposing that the genus name *Lasiurus* be restricted to red bats, *Dasypterus* be used as the genus name for yellow bats, and hoary bats plus *L. egregius* (which appears more closely related to hoary bats than to red bats) be reassigned to the genus *Aeorestes*.

However, Ziegler et al. (2016) stated "That there was insufficient justification for changing the well-established zoological nomenclature for these bats, and any potential value of applying different generic names to the three clades is far outweighed by the confusion that these name changes will cause." Therefore, the classical nomenclature for the genus is maintained in these Fact Sheets and carried over to the Interactive ID keys to the vocal signatures of the Lasiurines.

Citations

Baird, A. B., et al. 2015. Molecular systematic revision of tree bats (Lasiurini): doubling the native mammals of the Hawaiian Islands. *Journal of Mammalogy* 96:1255-1274

Marks, C. S., and G. E. Marks. 2006. *Bats of Florida*. Pp. 176. University of Florida Press, Gainesville.

Simmons, N. B., and A. L. Cirranello. 2020. *Bat Species of the World: A taxonomic and geographic database*. <http://batnames.org>

Szewczak, J. M. 2018. Echolocation Call Characteristics of Eastern U.S. Bats. Echolocation call characteristics of Eastern U.S. Bats. Unpublished report.

The IUCN 2017. Red List of Threatened Species. Version 2017-1. www.iucnredlist.org; Downloaded on August 6, 2017.

Ziegler, A. C., F. G. Howarth, and N. B. Simmons. 2016. A second endemic land mammal for the Hawaiian Islands: a new genus and species of fossil bat (Chiroptera: Vespertilionidae). *American Museum Novitates*. 3854: 1-52.

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