



# UK Bat Emergence Times and Call Frequency Reference

A simple field reference for emergence times, call ranges, detector  
sweet spots, and habitat.

Version 1.0

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# Species and Habitat List

<b>Common Name</b>	<b>Scientific Name</b>	<b>Habitat</b>
Brandt's	<i>Myotis brandtii</i>	woodland, edge, garden
Brown Long-Eared	<i>Plecotus auritus</i>	woodland, garden, buildings
Daubenton's	<i>Myotis daubentonii</i>	water, rivers, lakes
Greater Horseshoe	<i>Rhinolophus ferrumequinum</i>	woodland, pasture, buildings
Lesser Horseshoe	<i>Rhinolophus hipposideros</i>	woodland, buildings, sheltered valleys
Natterer's	<i>Myotis nattereri</i>	woodland, edge, garden
Noctule	<i>Nyctalus noctula</i>	open, parkland, above canopy
Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	urban, garden, edge
Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	edge, woodland, garden
Soprano Pipistrelle	<i>Pipistrellus pygmaeus</i>	water, rivers, wetland
Soprano Pipistrelle	<i>Pipistrellus pygmaeus</i>	water, wetland, edge
Whiskered	<i>Myotis mystacinus</i>	woodland, edge, garden

# Emergence Times and Call Frequency Reference

Common Name	Scientific Name	Emergence	Call Range	Detector Range
Brandt's	<i>Myotis brandtii</i>	+20 to +60	45 - 50	45 - 48
Brown Long-Eared	<i>Plecotus auritus</i>	+30 to +90	25 - 50	25 - 50
Daubenton's	<i>Myotis daubentonii</i>	+10 to +40	35 - 85	45 - 50
Greater Horseshoe	<i>Rhinolophus ferrumequinum</i>	+20 to +60	80 - 85	80 - 83
Lesser Horseshoe	<i>Rhinolophus hipposideros</i>	+10 to +40	108 - 115	105 - 110
Natterer's	<i>Myotis nattereri</i>	+20 to +60	45 - 50	45 - 48
Noctule	<i>Nyctalus noctula</i>	-10 to +10	20 - 45	22 - 28
Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	+5 to +30	20 - 30	20 - 30
Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	+10 to +40	40 - 55	40 - 50
Soprano Pipistrelle	<i>Pipistrellus pygmaeus</i>	0 to +30	50 - 65	50 - 60
Soprano Pipistrelle	<i>Pipistrellus pygmaeus</i>	+10 to +40	55 - 80	55 - 80
Whiskered	<i>Myotis mystacinus</i>	+20 to +60	45 - 50	45 - 48

## Notes:

1. Emergence is expressed as time in minutes relative to sunset, with negative numbers being before sunset and positive numbers after
2. Frequencies are expressed as KHz
3. The detector range relates to the optimal frequency range for a heterodyne detector

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*The information presented here is a synthesis of widely available field knowledge on UK bats, drawn from general field guides and acoustic survey references. Frequency ranges, emergence timings, and habitat associations reflect general consensus values rather than original research. The structure, interpretation, and presentation are the author's own.*