

SUPPLEMENTARY MATERIAL

The duration of acoustic bat passes as a proxy of foraging activity

Charlotte Roemer, Sarah Chayrigues, Romain E. Lacoste, Yves Bas

Table 1 - Number of sites*nights (i.e. several nights possible for the same site) in which each species was confirmed by manual validation.

Scientific name	Number of sites*nights
<i>Pipistrellus pipistrellus</i>	1044
<i>Pipistrellus kuhlii</i>	592
<i>Nyctalus leisleri</i>	198
<i>Pipistrellus pygmaeus</i>	170
<i>Eptesicus serotinus</i>	144
<i>Barbastella barbastellus</i>	98
<i>Hypsugo savii</i>	87
<i>Pipistrellus nathusii</i>	82
<i>Myotis daubentonii</i>	81
<i>Myotis mystacinus</i>	60
<i>Tadarida teniotis</i>	55
<i>Myotis nattereri</i>	51
<i>Miniopterus schreibersii</i>	47
<i>Nyctalus noctula</i>	44
<i>Rhinolophus ferrumequinum</i>	35
<i>Rhinolophus hipposideros</i>	33
<i>Myotis capaccinii</i>	25
<i>Plecotus austriacus</i>	25
<i>Myotis emarginatus</i>	20
<i>Myotis alcathoe</i>	7
<i>Nyctalus lasiopterus</i>	4
<i>Plecotus auritus</i>	4
<i>Rhinolophus euryale</i>	4
<i>Eptesicus nilssonii</i>	2
<i>Myotis cf. myotis</i>	1

Table 2 - Confusion matrix of the identification of species obtained by the automatic process and the manual validation. Grey cells show species correctly identified and the pink show species identification errors. Species abbreviations can be found in Table 3.

Species	Automatic process											
	barbar	eptser	inssp11	leppun	myodau	myoema	noise	phogri	pipkuh	pippip	pippyg	plaalb
barbar	1	0	0	0	0	0	0	0	0	0	0	0
eptser	0	2	0	0	0	0	0	0	0	0	0	0
leppun	0	0	0	4	0	0	2	0	0	1	0	0
myodau	0	0	0	0	2	0	0	0	0	0	0	0
myoema	0	0	0	0	0	1	0	0	0	0	0	0
noise	0	0	0	0	0	0	5	1	0	0	0	1
phogri	0	0	0	0	0	0	0	2	0	0	0	1
bird	0	0	0	0	0	0	1	0	0	0	0	0
pipkuh	0	0	0	0	0	0	0	0	3	0	0	0
pippip	0	0	0	0	0	0	0	0	0	15	0	0
pippyg	0	0	0	0	0	0	0	0	0	0	2	0
rhifer	0	0	0	0	0	0	0	0	0	0	0	1
rhhip	0	0	0	0	0	0	0	0	0	0	0	1
testes	0	0	1	0	0	0	0	0	0	0	0	1
tetvir	0	0	0	0	0	0	0	0	0	0	0	0
yerray	0	0	0	0	0	0	0	0	0	0	0	1

Table 3 - List of species abbreviations

Scientific name	Code species
<i>Barbastella barbastellus</i>	barbar
<i>Eptesicus nilssonii</i>	eptnil
<i>Eptesicus serotinus</i>	eptser
<i>Hypsugo savii</i>	hypsug
<i>Isophya pyrenaea</i>	isopyr
<i>Leptophyes punctatissima</i>	leppun
<i>Miniopterus schreibersii</i>	minsch
<i>Myotis alcathoe</i>	myoalc
<i>Myotis capaccinii</i>	myocap
<i>Myotis cf. myotis</i>	myomyo
<i>Myotis daubentonii</i>	myodau
<i>Myotis emarginatus</i>	myoem
<i>Myotis mystacinus</i>	myomys
<i>Myotis nattereri</i>	myonat
<i>Nyctalus lasiopterus</i>	nyclas
<i>Nyctalus leisleri</i>	nyclei
<i>Nyctalus noctula</i>	nycnoc
<i>Phaneroptera nana</i>	phanan
<i>Pholidoptera griseoptera</i>	phogri
<i>Pipistrellus kuhlii</i>	pipkuh
<i>Pipistrellus nathusii</i>	pipnat
<i>Pipistrellus pipistrellus</i>	pippip
<i>Pipistrellus pygmaeus</i>	pippyg
<i>Platycoleis albopunctata</i>	plaalb
<i>Plecotus auritus</i>	pleaur
<i>Plecotus austriacus</i>	pleaus
<i>Rhinolophus euryale</i>	rhieur
<i>Rhinolophus ferrumequinum</i>	rhifer
<i>Rhinolophus hipposideros</i>	rhihip
<i>Ruspolia nitidula</i>	rusnit
<i>Tadarida teniotis</i>	tadten
<i>Tessellana tessellata</i>	testes
<i>Tettigonia cantans</i>	tetvir
<i>Yersinella raymondii</i>	yerray
<i>Zeuneriana abbreviata</i>	zeuabb
Insecta sp.	inssp11

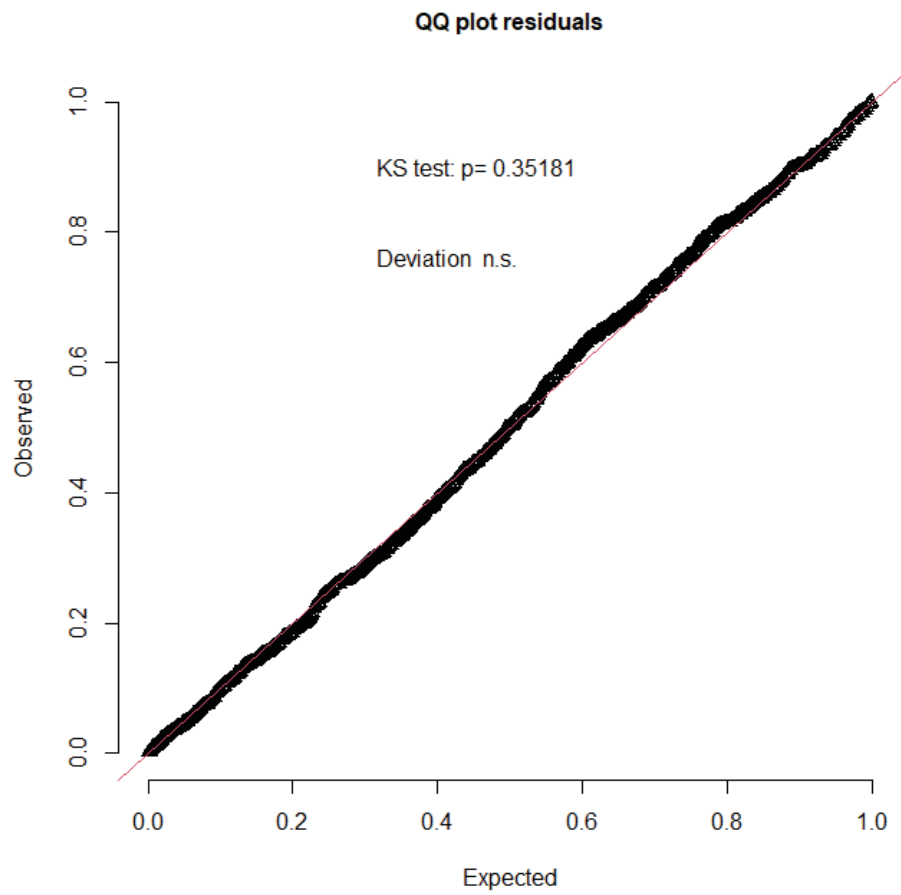


Fig. 1 - QQ plot of the residuals of the model with the best AIC: number of buzzes per hour as a function of the mean bat pass duration, with zero inflation and the family negative binomial.