



This report was produced free of charge by the Mammal Society to support evidence-based conservation of bats.

The following analyses are based on data supplied by the user to the Mammal Society's Ecobat website. The outputs are designed to assist decision-making, but do not replace expert interpretation by the user. The creation of the Ecobat tool was supported by the Natural Environment Research Council (NERC).

Bat Activity Analysis

Site Name: Breezy Hill

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11/02/2022

Summary

Bats were detected on 41 nights between 2021-05-17 and 2021-10-07, using 15 static bat detectors. Throughout this period 6 species were recorded. Table 1. Detectors were placed at the following locations:

Detector ID	Latitude	Longitude
loc9	55.37998	-4.423652
loc11	55.38215	-4.412734
loc6	55.37280	-4.425817
loc8	55.37693	-4.418967
loc1	55.35320	-4.390511
loc12	55.38425	-4.416493
loc2	55.35924	-4.399001
loc10	55.38043	-4.406535
loc3	55.36769	-4.407324
loc4	55.37205	-4.400013
loc5	55.37160	-4.408098
loc7	55.37509	-4.412572
loc6A	55.37323	-4.422039

loc9A	55.38132	-4.423750
loc8A	55.37594	-4.413839

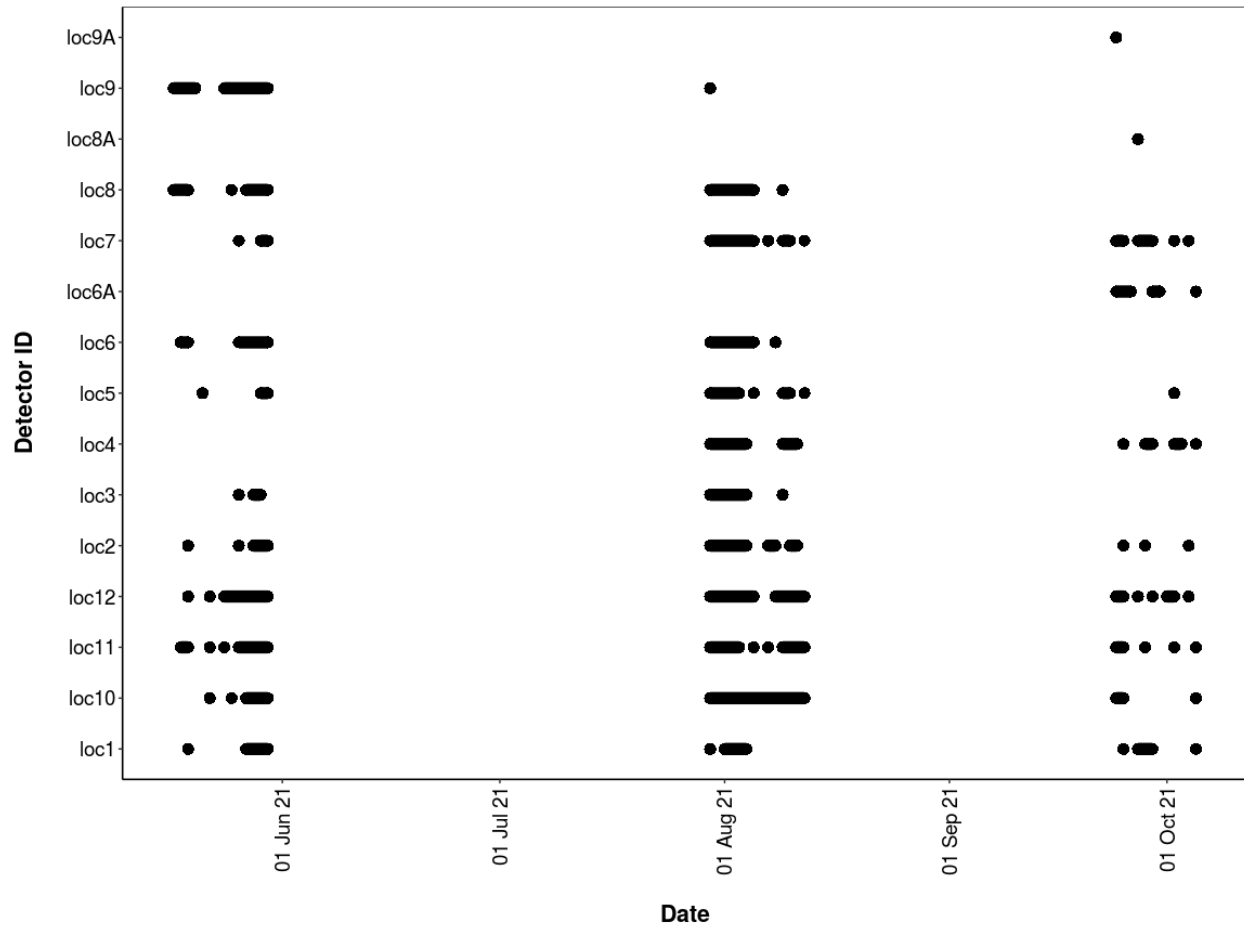
Survey Nights

Table 2. The number of nights that bats were detected on each recorder. This is not the same as the number of nights that detectors were active if there were nights when no bats were detected.

Detector ID	No. of nights
loc1	15
loc10	23
loc11	25
loc12	29
loc2	19
loc3	12
loc4	15
loc5	13
loc6	19
loc6A	8
loc7	22
loc8	19
loc8A	1
loc9	25
loc9A	1

Survey Nights

Figure 1. Horizontal bars show nights when acoustic detectors recorded bats.



PART 1: Percentiles Analysis

This first part of the analysis looks at the relative activity levels of the bats you recorded. We take your value for the total bat passes each night for each species, and compare this to the values in our reference database. We tell you what percentile your data falls at, and therefore what the relative activity level is. For example, if the reference database has values of 5, 10, 15, 20 and you submit a value of 18, this will be the 80th percentile, and be classed as high activity.

The reference range dataset was stratified to include:

- Only records from within 30 days of the survey date.
- Only records from within 100km radius of the survey location.
- Records using any make of bat detector.

PER DETECTOR

Table 3. Summary table showing the number of nights recorded bat activity fell into each activity band for each species.

Detector ID	Species/Species Group	Nights of High Activity	Nights of Moderate/ High Activity	Nights of Moderate Activity	Nights of Low/ Moderate Activity	Nights of Low Activity
loc1	<i>Myotis daubentonii</i>	0	0	0	0	3
loc1	<i>Nyctalus</i>	0	0	0	0	5
loc1	<i>Pipistrellus pipistrellus</i>	0	1	1	5	1
loc1	<i>Pipistrellus pygmaeus</i>	0	0	2	4	4
loc10	<i>Myotis daubentonii</i>	0	2	1	5	7
loc10	<i>Nyctalus</i>	0	5	0	3	3
loc10	<i>Pipistrellus pipistrellus</i>	1	2	1	7	4
loc10	<i>Pipistrellus pygmaeus</i>	0	2	2	5	4
loc10	<i>Plecotus auritus</i>	0	0	0	2	0
loc11	<i>Myotis daubentonii</i>	0	0	1	6	7
loc11	<i>Myotis nattereri</i>	0	0	0	0	1
loc11	<i>Nyctalus</i>	0	0	1	3	4
loc11	<i>Pipistrellus pipistrellus</i>	0	0	1	2	9
loc11	<i>Pipistrellus pygmaeus</i>	0	1	2	5	5
loc11	<i>Plecotus auritus</i>	0	0	0	1	1
loc12	<i>Myotis daubentonii</i>	0	0	0	5	7
loc12	<i>Myotis nattereri</i>	0	0	0	0	3
loc12	<i>Nyctalus</i>	1	3	1	0	3
loc12	<i>Pipistrellus pipistrellus</i>	0	0	1	6	5
loc12	<i>Pipistrellus</i>	1	5	2	2	6

	<i>pygmaeus</i>					
loc12	<i>Plecotus auritus</i>	0	0	0	0	1
loc2	<i>Myotis daubentonii</i>	0	0	0	1	3
loc2	<i>Nyctalus</i>	0	2	1	1	1
loc2	<i>Pipistrellus pipistrellus</i>	0	3	1	1	6
loc2	<i>Pipistrellus pygmaeus</i>	0	0	1	0	6
loc2	<i>Plecotus auritus</i>	0	0	0	0	2
loc3	<i>Myotis daubentonii</i>	0	0	0	1	2
loc3	<i>Myotis nattereri</i>	0	0	0	0	1
loc3	<i>Nyctalus</i>	0	0	1	2	4
loc3	<i>Pipistrellus pipistrellus</i>	0	0	0	1	5
loc3	<i>Pipistrellus pygmaeus</i>	0	0	0	0	1
loc3	<i>Plecotus auritus</i>	0	0	0	2	3
loc4	<i>Myotis daubentonii</i>	0	0	0	1	2
loc4	<i>Myotis nattereri</i>	0	0	0	0	1
loc4	<i>Nyctalus</i>	0	0	1	2	4
loc4	<i>Pipistrellus pipistrellus</i>	0	0	0	1	3
loc4	<i>Pipistrellus pygmaeus</i>	0	0	0	2	4
loc4	<i>Plecotus auritus</i>	0	0	0	2	3
loc5	<i>Myotis daubentonii</i>	0	0	0	1	0
loc5	<i>Myotis nattereri</i>	0	0	0	0	1
loc5	<i>Nyctalus</i>	0	0	2	1	3
loc5	<i>Pipistrellus pipistrellus</i>	0	1	1	2	4
loc5	<i>Pipistrellus pygmaeus</i>	0	0	0	0	6
loc5	<i>Plecotus auritus</i>	0	0	0	2	1
loc6	<i>Myotis daubentonii</i>	0	0	0	1	1

loc6	<i>Myotis nattereri</i>	0	0	0	0	4
loc6	<i>Nyctalus</i>	0	1	0	0	0
loc6	<i>Pipistrellus pipistrellus</i>	10	2	1	2	1
loc6	<i>Pipistrellus pygmaeus</i>	2	1	0	1	0
loc6A	<i>Nyctalus</i>	0	1	0	1	0
loc6A	<i>Pipistrellus pipistrellus</i>	0	0	0	0	1
loc6A	<i>Pipistrellus pygmaeus</i>	1	3	1	1	2
loc7	<i>Myotis daubentonii</i>	0	0	0	2	1
loc7	<i>Myotis nattereri</i>	0	0	0	1	0
loc7	<i>Nyctalus</i>	0	0	0	0	3
loc7	<i>Pipistrellus pipistrellus</i>	8	3	1	1	3
loc7	<i>Pipistrellus pygmaeus</i>	0	0	0	1	5
loc7	<i>Plecotus auritus</i>	0	0	0	0	4
loc8	<i>Myotis daubentonii</i>	0	0	0	0	3
loc8	<i>Myotis nattereri</i>	0	0	0	0	1
loc8	<i>Nyctalus</i>	0	0	1	1	4
loc8	<i>Pipistrellus pipistrellus</i>	9	3	1	2	1
loc8	<i>Pipistrellus pygmaeus</i>	4	3	0	2	2
loc8	<i>Plecotus auritus</i>	0	0	2	0	2
loc8A	<i>Pipistrellus pipistrellus</i>	0	0	0	0	1
loc9	<i>Myotis daubentonii</i>	0	0	0	6	2
loc9	<i>Myotis nattereri</i>	0	0	0	0	5
loc9	<i>Nyctalus</i>	1	2	0	2	0
loc9	<i>Pipistrellus pipistrellus</i>	5	3	0	3	2
loc9	<i>Pipistrellus pygmaeus</i>	14	1	0	3	2

loc9	<i>Plecotus auritus</i>	0	0	1	0	2
loc9A	<i>Pipistrellus</i> <i>pipistrellus</i>	0	1	0	0	0
loc9A	<i>Pipistrellus</i> <i>pygmaeus</i>	1	0	0	0	0

Table 4. Summary table showing key metrics for each species recorded. The reference range is the number of nights for each species that your data were compared to. We recommend a Reference Range of 200+ to be confident in the relative activity level.

Detector ID	Species/Species Group	Median Percentile	95% CIs	Max Percentile	Nights Recorded	Reference Range
loc1	<i>Myotis daubentonii</i>	2	2 - 2	2	3	567
loc1	<i>Nyctalus</i>	2	2 - 2	2	5	3465
loc1	<i>Pipistrellus pipistrellus</i>	39	20.5 - 53.5	68	8	10617
loc1	<i>Pipistrellus pygmaeus</i>	39	2 - 46.5	54	10	15511
loc10	<i>Myotis daubentonii</i>	39	2 - 39	68	15	567
loc10	<i>Nyctalus</i>	39	20.5 - 67.5	72	11	3465
loc10	<i>Pipistrellus pipistrellus</i>	39	20.5 - 53.5	83	15	10617
loc10	<i>Pipistrellus pygmaeus</i>	39	20.5 - 51	68	13	15511
loc10	<i>Plecotus auritus</i>	39	39 - 39	39	2	720
loc11	<i>Myotis daubentonii</i>	21	2 - 39	54	14	567
loc11	<i>Myotis nattereri</i>	2	0	2	1	282
loc11	<i>Nyctalus</i>	21	2 - 39	54	8	3465
loc11	<i>Pipistrellus pipistrellus</i>	2	2 - 20.5	54	12	10617
loc11	<i>Pipistrellus pygmaeus</i>	39	20.5 - 46.5	63	13	15511
loc11	<i>Plecotus auritus</i>	21	20.5 - 20.5	39	2	720
loc12	<i>Myotis daubentonii</i>	2	2 - 39	39	12	567
loc12	<i>Myotis nattereri</i>	2	2 - 2	2	3	282
loc12	<i>Nyctalus</i>	59	2 - 71.5	82	8	3465
loc12	<i>Pipistrellus</i>	39	2 - 39	54	12	10617

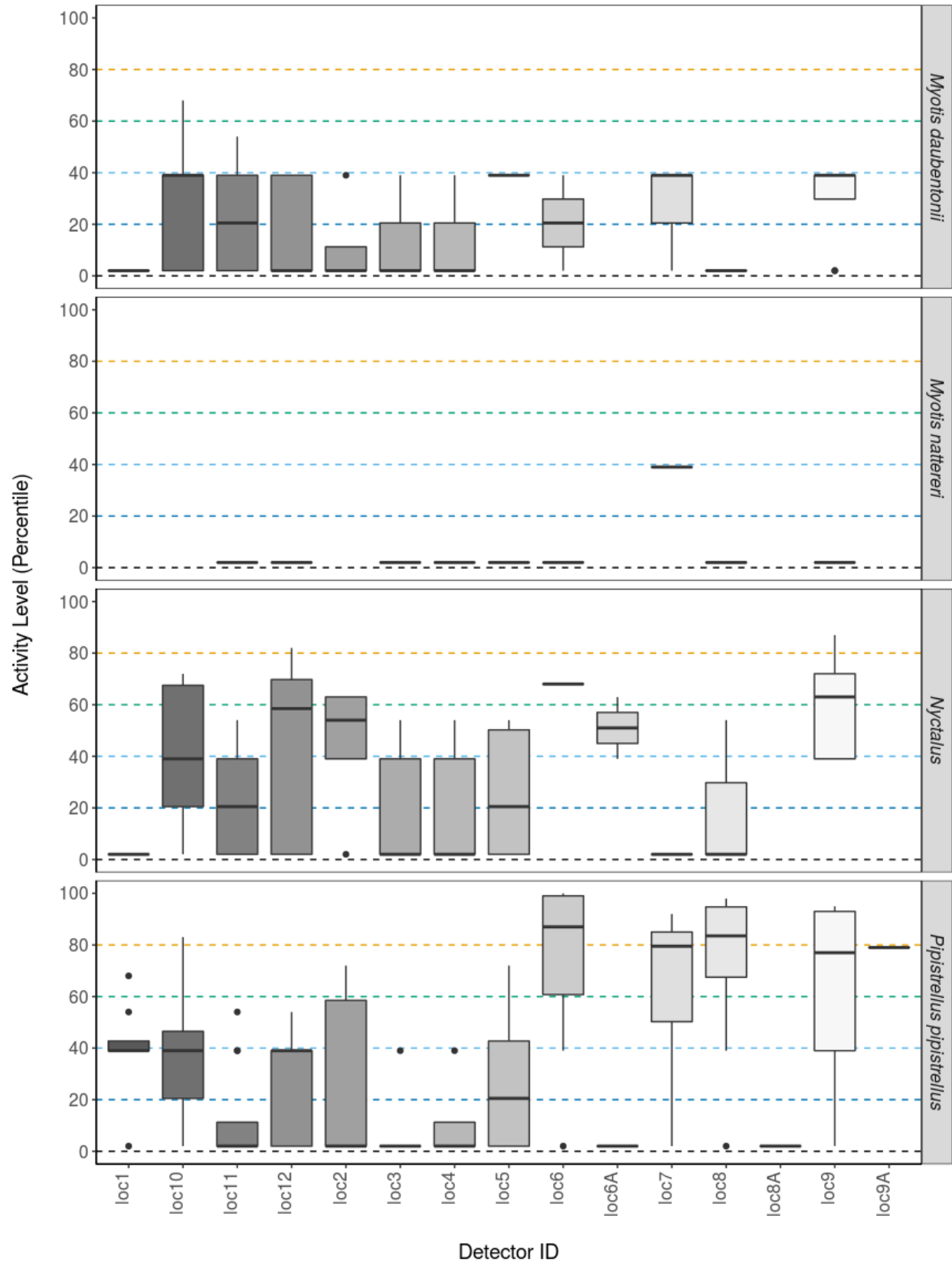
	<i>pipistrellus</i>					
loc12	<i>Pipistrellus pygmaeus</i>	47	20.5 - 58.5	84	16	15511
loc12	<i>Plecotus auritus</i>	2	0	2	1	720
loc2	<i>Myotis daubentonii</i>	2	2 - 2	39	4	567
loc2	<i>Nyctalus</i>	54	28 - 63	63	5	3465
loc2	<i>Pipistrellus pipistrellus</i>	2	2 - 39	72	11	10617
loc2	<i>Pipistrellus pygmaeus</i>	2	2 - 2	54	7	15511
loc2	<i>Plecotus auritus</i>	2	2 - 2	2	2	720
loc3	<i>Myotis daubentonii</i>	2	2 - 2	39	3	567
loc3	<i>Myotis nattereri</i>	2	0	2	1	282
loc3	<i>Nyctalus</i>	2	2 - 28	54	7	3465
loc3	<i>Pipistrellus pipistrellus</i>	2	2 - 2	39	6	10617
loc3	<i>Pipistrellus pygmaeus</i>	2	0	2	1	15511
loc3	<i>Plecotus auritus</i>	2	2 - 20.5	39	5	720
loc4	<i>Myotis daubentonii</i>	2	2 - 2	39	3	567
loc4	<i>Myotis nattereri</i>	2	0	2	1	282
loc4	<i>Nyctalus</i>	2	2 - 28	54	7	3465
loc4	<i>Pipistrellus pipistrellus</i>	2	2 - 2	39	4	10617
loc4	<i>Pipistrellus pygmaeus</i>	2	2 - 20.5	39	6	15511
loc4	<i>Plecotus auritus</i>	2	2 - 20.5	39	5	720
loc5	<i>Myotis daubentonii</i>	39	0	39	1	567
loc5	<i>Myotis nattereri</i>	2	0	2	1	282
loc5	<i>Nyctalus</i>	21	2 - 46.5	54	6	3465
loc5	<i>Pipistrellus pipistrellus</i>	21	2 - 46.5	72	8	10617

loc5	<i>Pipistrellus pygmaeus</i>	2	2 - 2	2	6	15511
loc5	<i>Plecotus auritus</i>	39	39 - 39	39	3	720
loc6	<i>Myotis daubentonii</i>	21	20.5 - 20.5	39	2	567
loc6	<i>Myotis nattereri</i>	2	2 - 2	2	4	282
loc6	<i>Nyctalus</i>	68	0	68	1	3465
loc6	<i>Pipistrellus pipistrellus</i>	87	60.5 - 95.5	100	16	10617
loc6	<i>Pipistrellus pygmaeus</i>	80	39 - 95	95	4	15511
loc6A	<i>Nyctalus</i>	51	51 - 51	63	2	3465
loc6A	<i>Pipistrellus pipistrellus</i>	2	0	2	1	10617
loc6A	<i>Pipistrellus pygmaeus</i>	61	20.5 - 82	96	8	15511
loc7	<i>Myotis daubentonii</i>	39	39 - 39	39	3	567
loc7	<i>Myotis nattereri</i>	39	0	39	1	282
loc7	<i>Nyctalus</i>	2	2 - 2	2	3	3465
loc7	<i>Pipistrellus pipistrellus</i>	80	43 - 83.5	92	16	10617
loc7	<i>Pipistrellus pygmaeus</i>	2	2 - 2	39	6	15511
loc7	<i>Plecotus auritus</i>	2	2 - 2	2	4	720
loc8	<i>Myotis daubentonii</i>	2	2 - 2	2	3	567
loc8	<i>Myotis nattereri</i>	2	0	2	1	282
loc8	<i>Nyctalus</i>	2	2 - 28	54	6	3465
loc8	<i>Pipistrellus pipistrellus</i>	84	61 - 90	98	16	10617
loc8	<i>Pipistrellus pygmaeus</i>	75	38.5 - 82.5	92	11	15511
loc8	<i>Plecotus auritus</i>	28	2 - 54	54	4	720
loc8A	<i>Pipistrellus pipistrellus</i>	2	0	2	1	10617
loc9	<i>Myotis</i>	39	20.5 -	39	8	567

	<i>daubentonii</i>		39			
loc9	<i>Myotis nattereri</i>	2	2 - 2	2	5	282
loc9	<i>Nyctalus</i>	63	39 - 75	87	5	3465
loc9	<i>Pipistrellus pipistrellus</i>	77	39.5 - 86	95	13	10617
loc9	<i>Pipistrellus pygmaeus</i>	90	61.5 - 93	98	20	15511
loc9	<i>Plecotus auritus</i>	2	2 - 2	54	3	720
loc9A	<i>Pipistrellus pipistrellus</i>	79	0	79	1	10617
loc9A	<i>Pipistrellus pygmaeus</i>	92	0	92	1	15511

###Figures

Figure 2. The recorded activity of bats during the survey. The centre line indicates the median activity level whereas the box represents the interquartile range (the spread of the middle 50% of nights of activity)



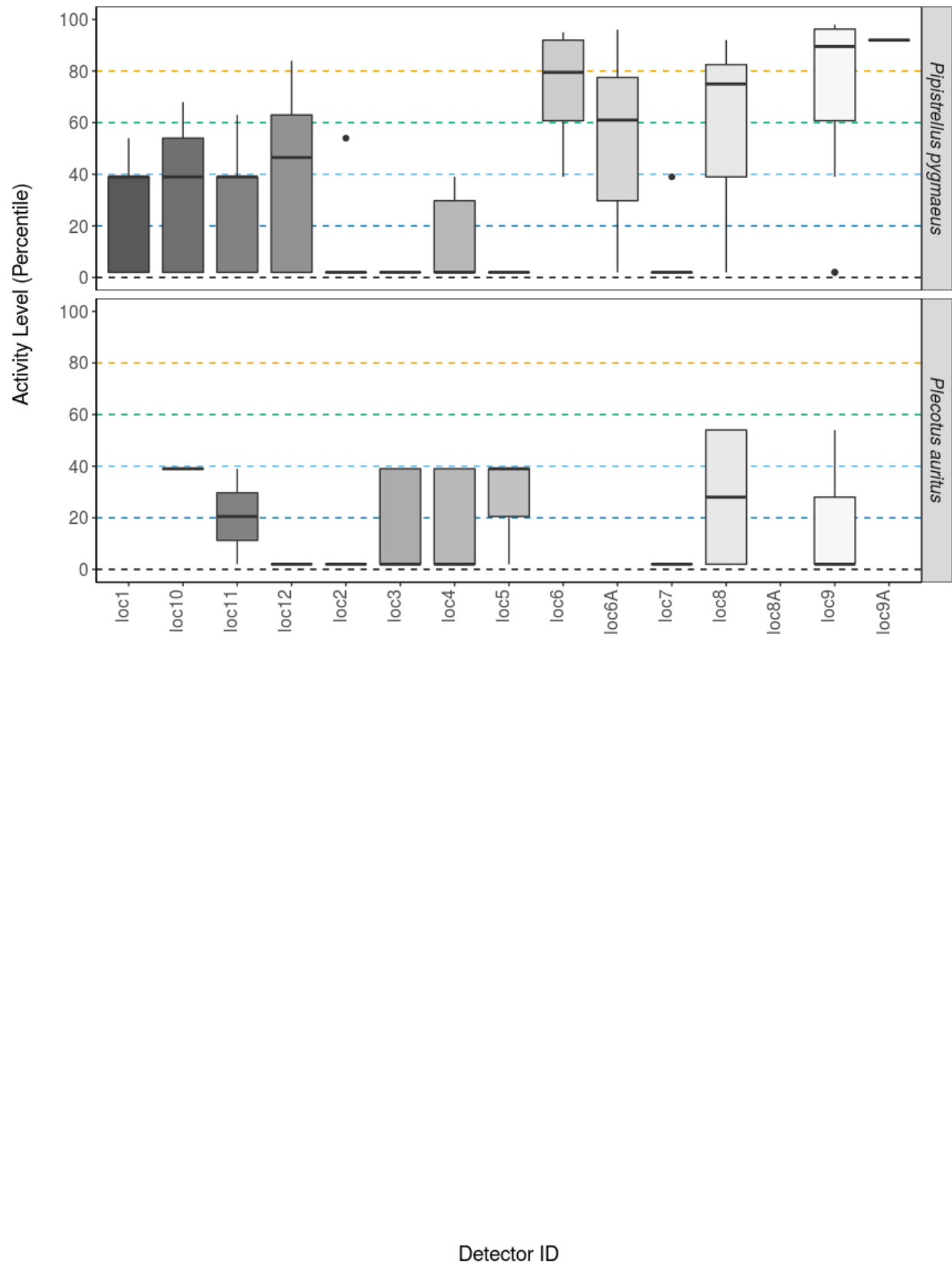
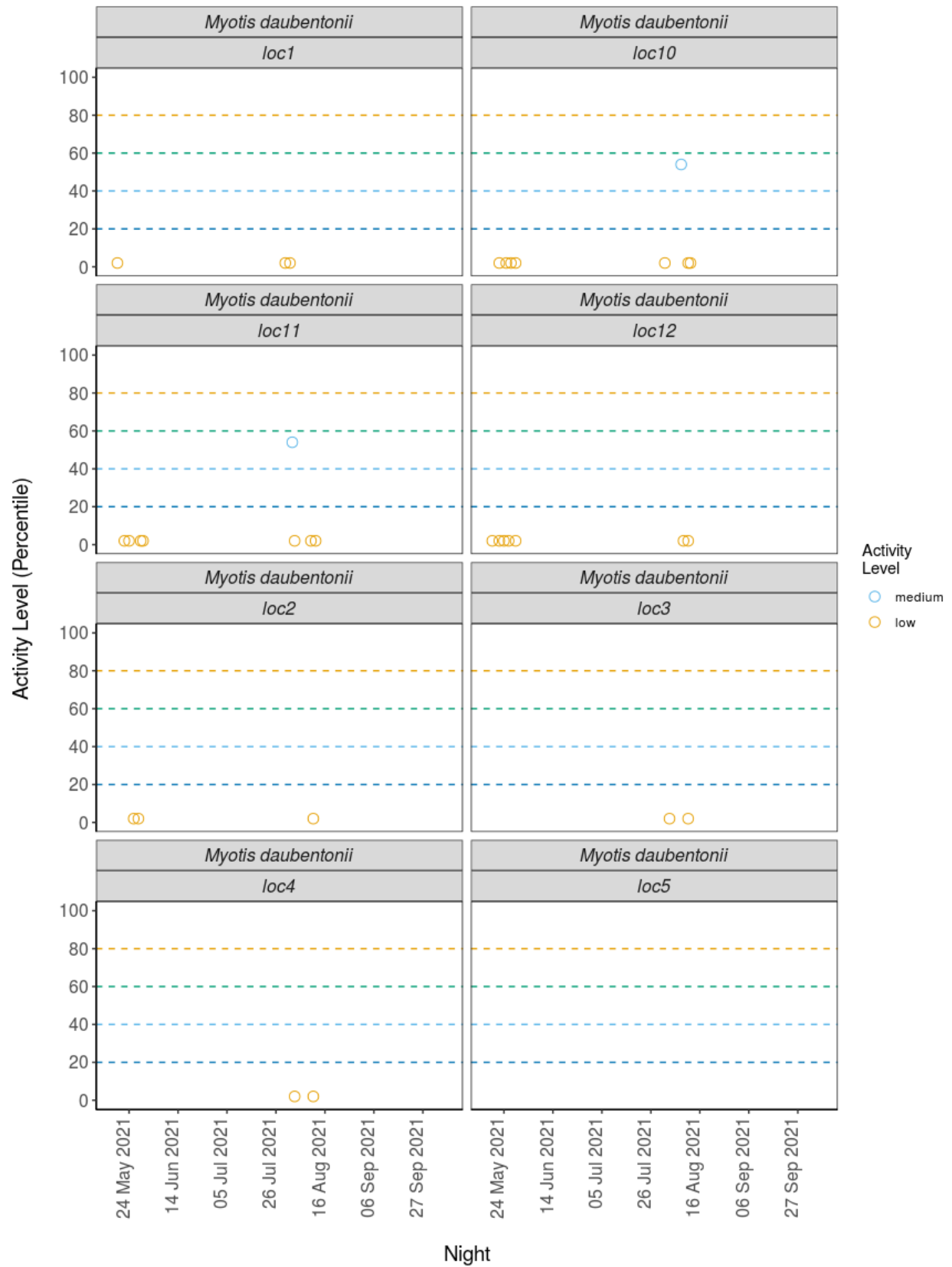
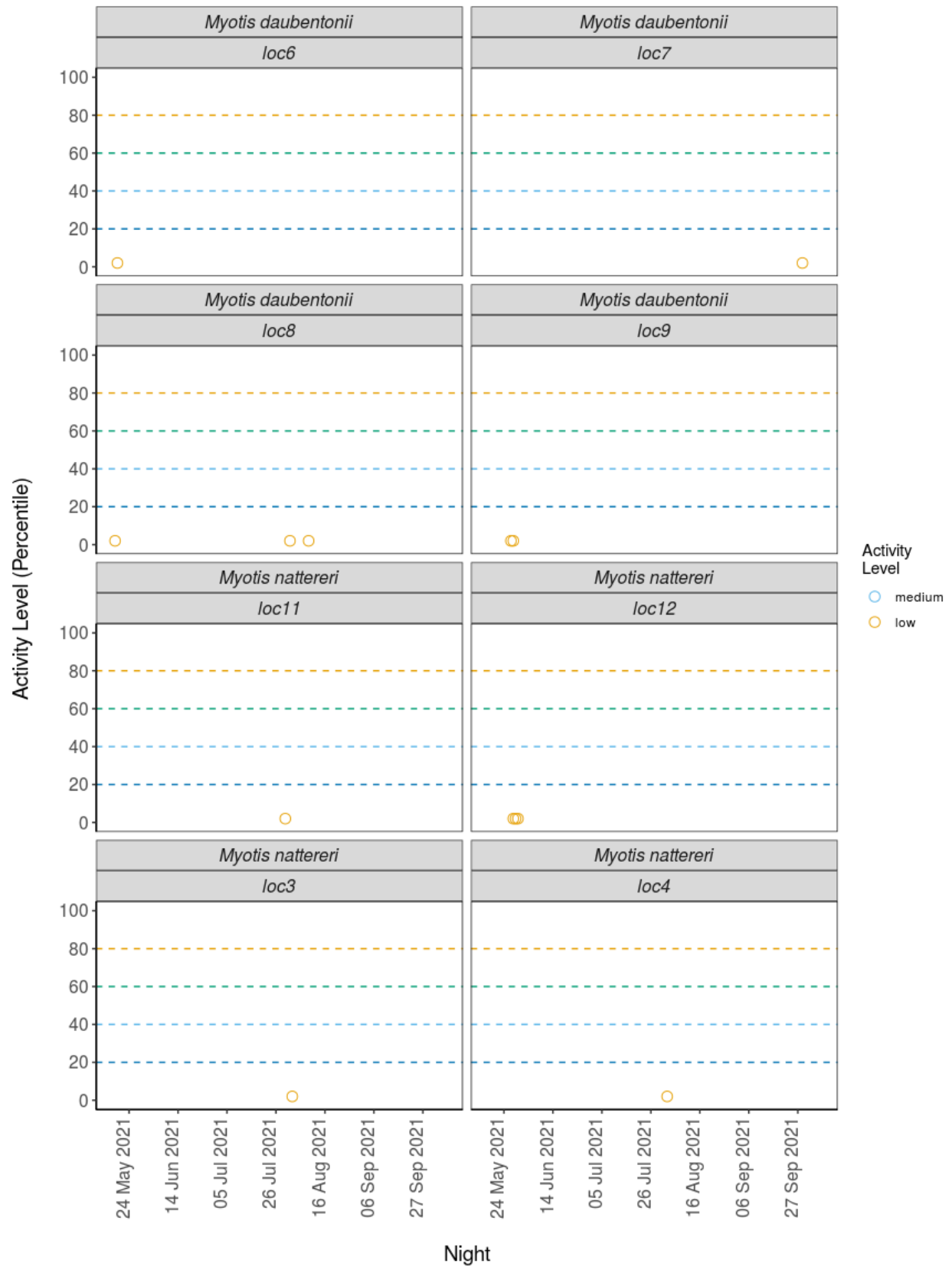
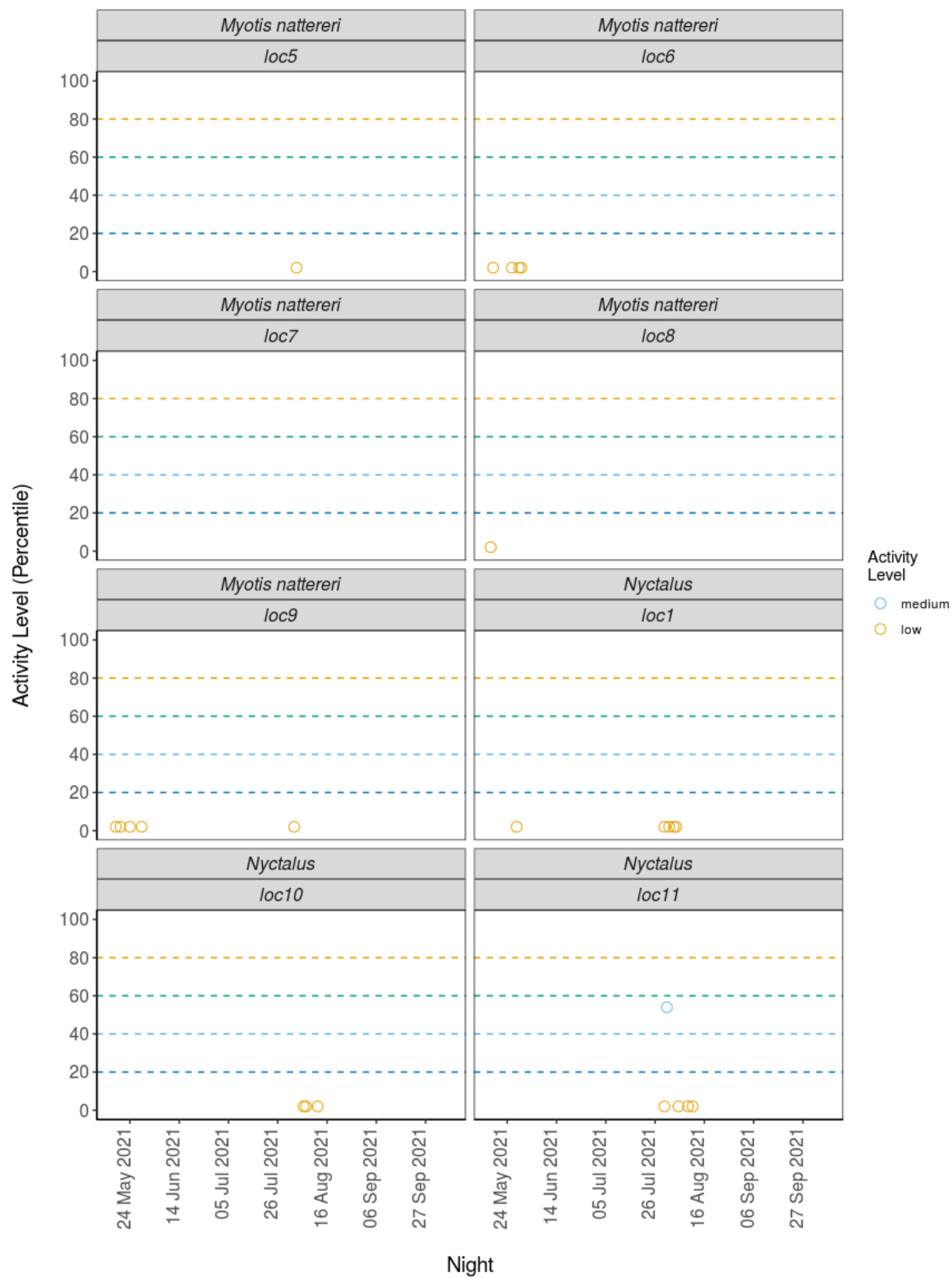
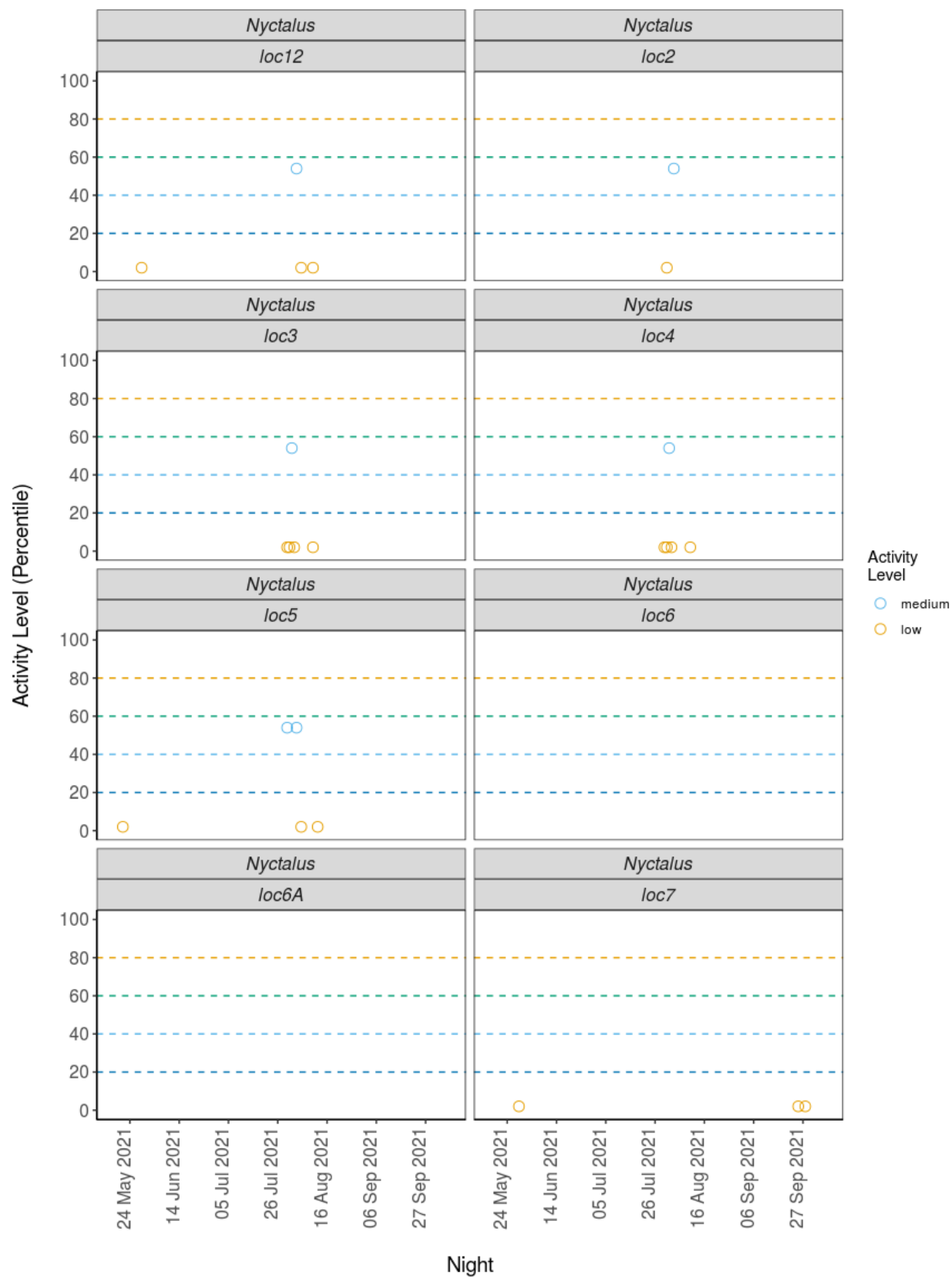


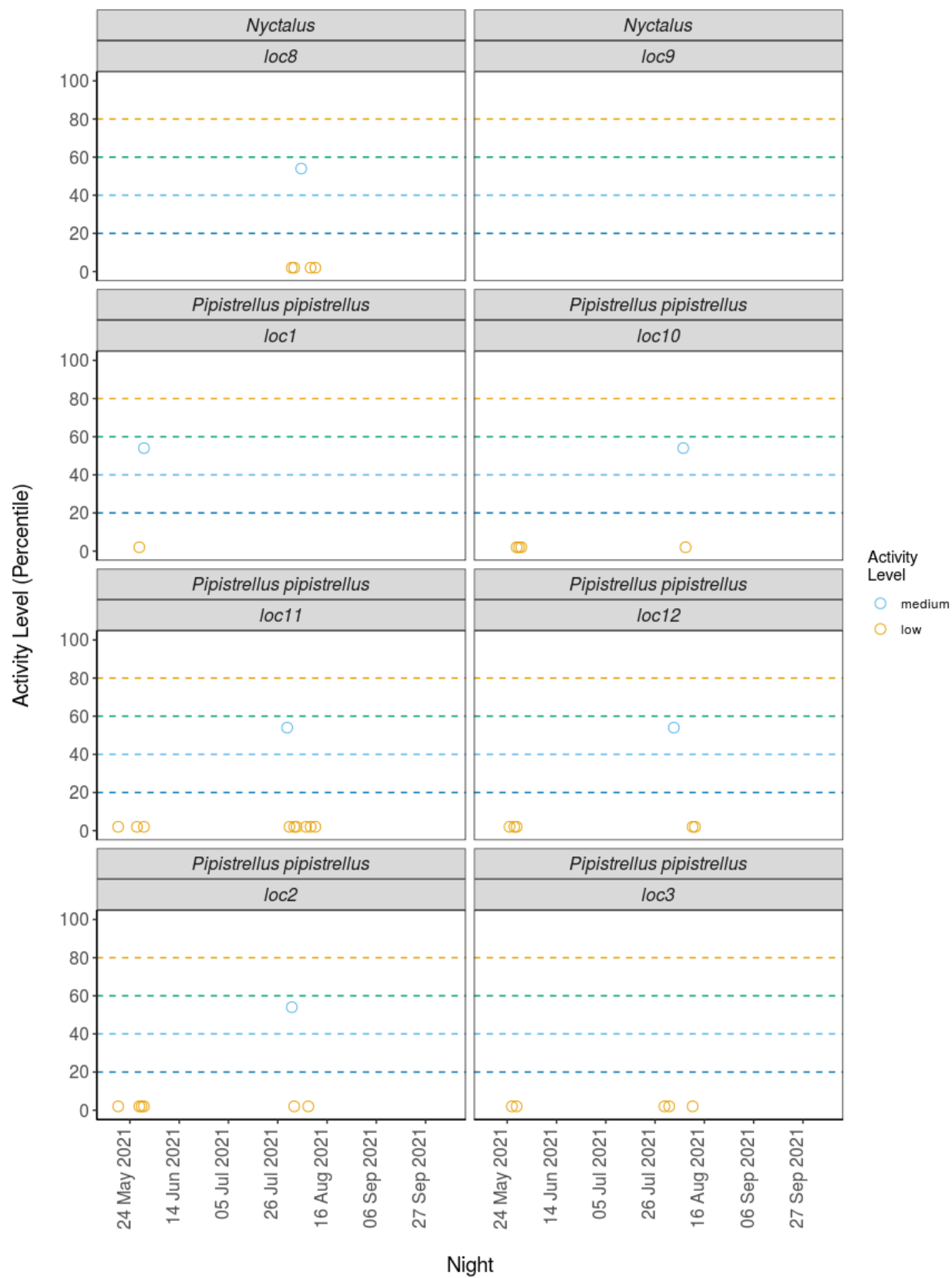
Figure 3. The activity level (percentile) of bats recorded across each night of the bat survey.

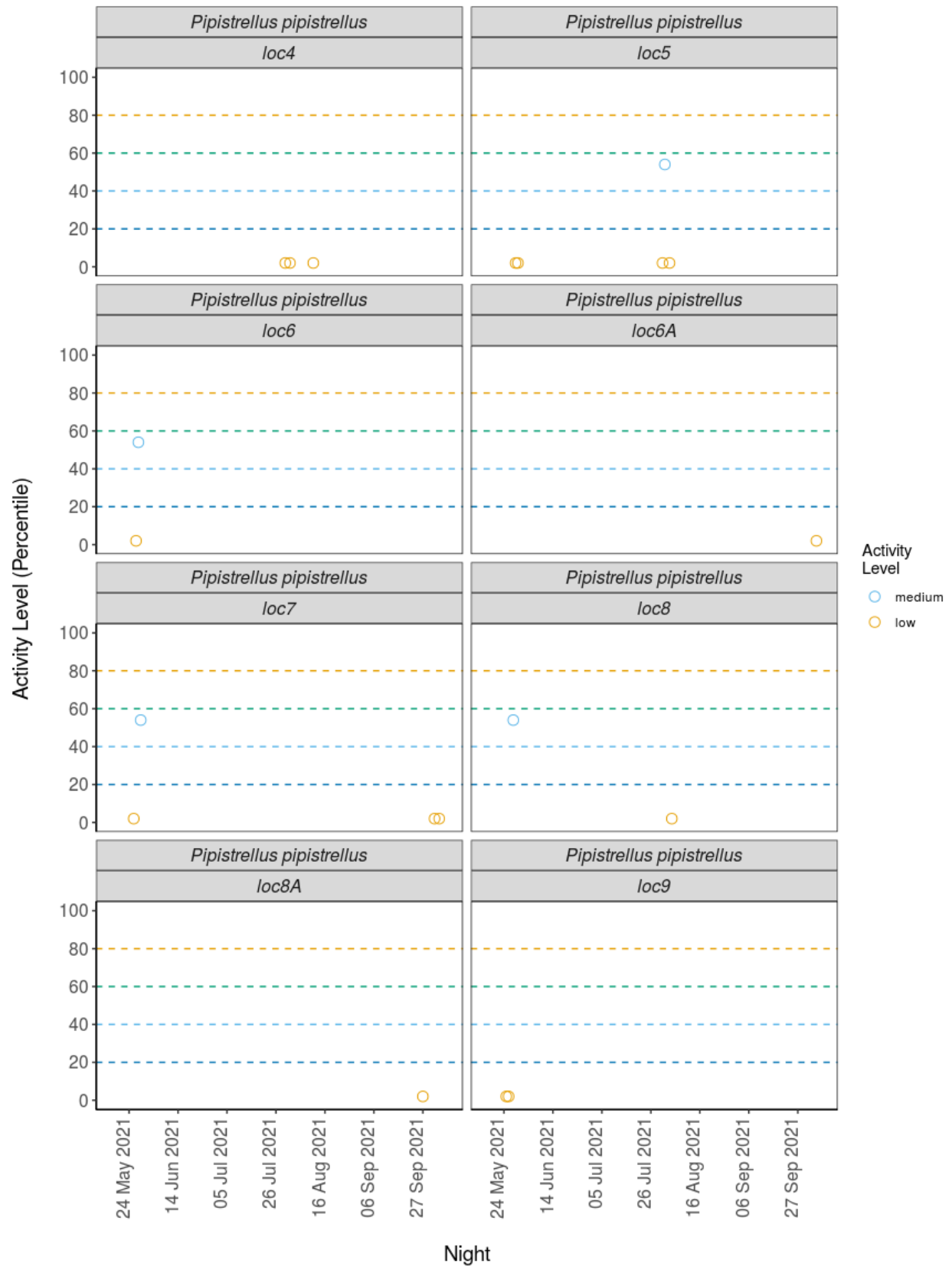


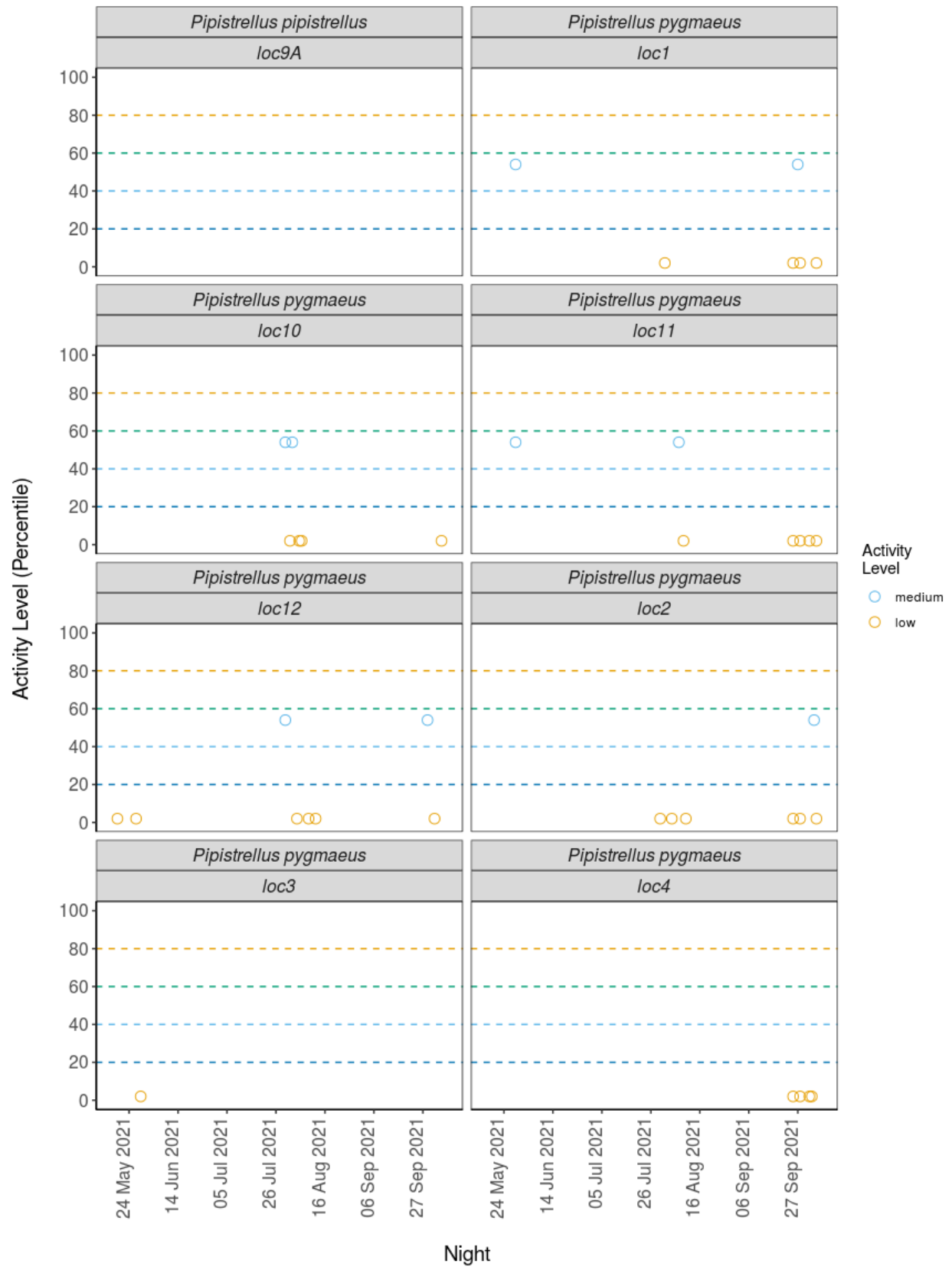


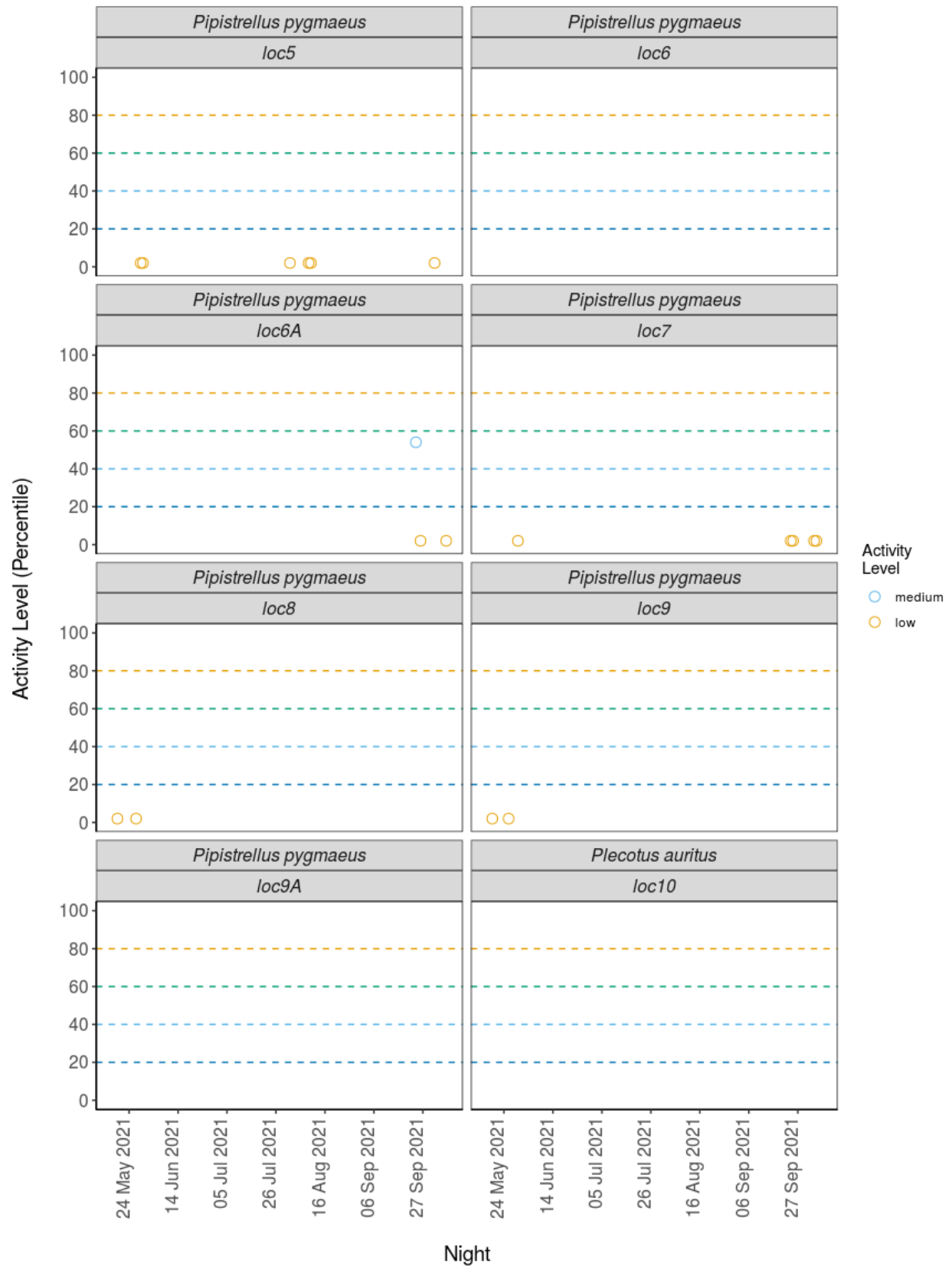


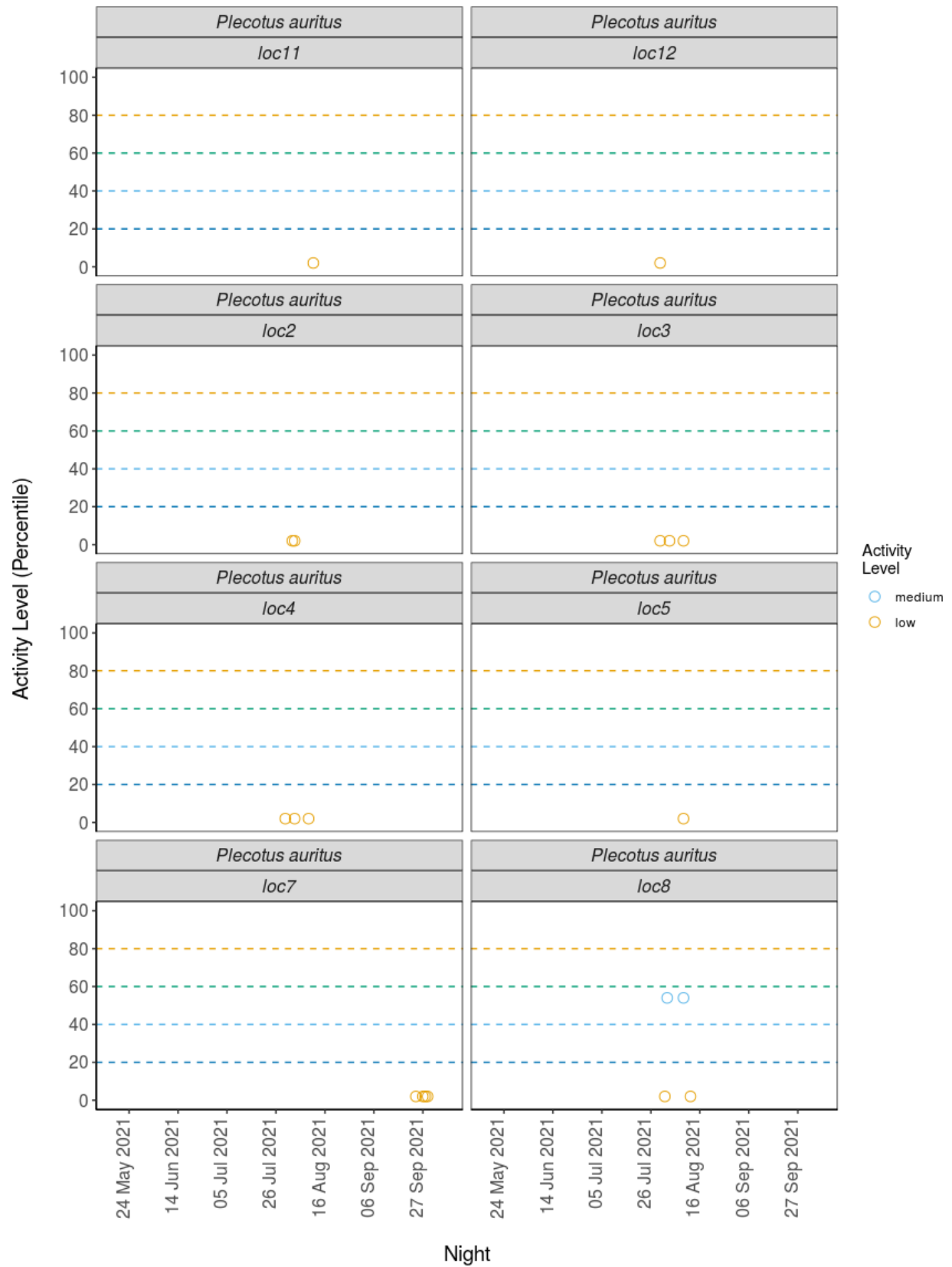


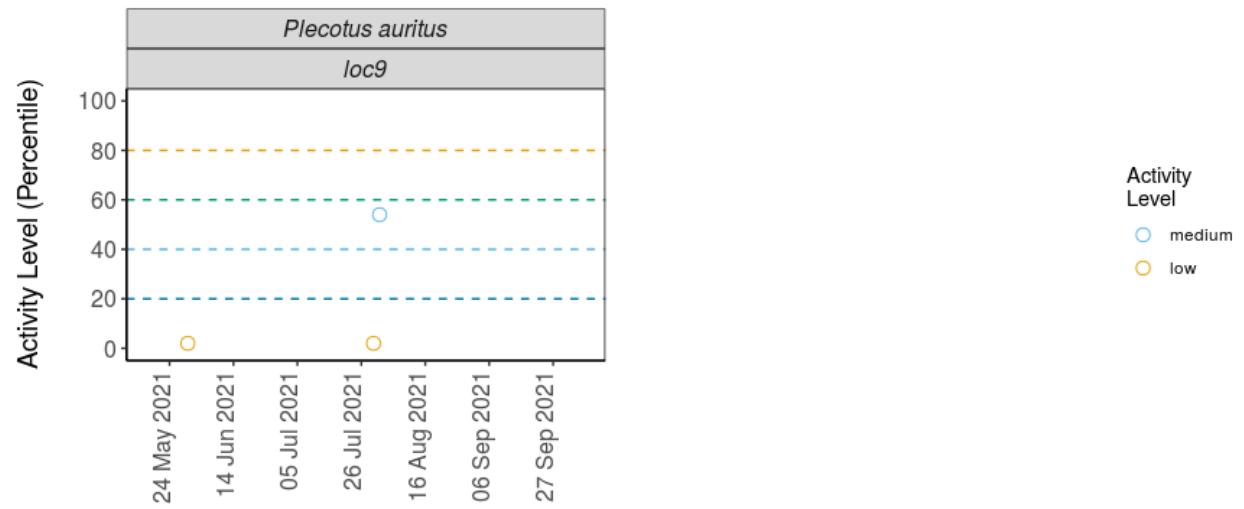












Night

PER DETECTOR, PER MONTH

Table 5. Summary table showing the number of nights recorded bat activity fell into each activity band for each species at each detector during each month.

Detector ID	Species/Species Group	Month	Nights of High Activity	Nights of Moderate / High Activity	Nights of Moderate Activity	Nights of Low / Moderate Activity	Nights of Low Activity
loc1	<i>Myotis daubentonii</i>	May	0	0	0	0	1
loc1	<i>Myotis daubentonii</i>	Jul	0	0	0	0	1
loc1	<i>Myotis daubentonii</i>	Aug	0	0	0	0	1
loc1	<i>Nyctalus</i>	May	0	0	0	0	1
loc1	<i>Nyctalus</i>	Jul	0	0	0	0	1
loc1	<i>Nyctalus</i>	Aug	0	0	0	0	3
loc1	<i>Pipistrellus pipistrellus</i>	May	0	1	1	1	1
loc1	<i>Pipistrellus pipistrellus</i>	Jul	0	0	0	1	0
loc1	<i>Pipistrellus pipistrellus</i>	Aug	0	0	0	3	0
loc1	<i>Pipistrellus pygmaeus</i>	May	0	0	1	1	0
loc1	<i>Pipistrellus pygmaeus</i>	Aug	0	0	0	2	1
loc1	<i>Pipistrellus pygmaeus</i>	Sep	0	0	1	1	2
loc1	<i>Pipistrellus pygmaeus</i>	Oct	0	0	0	0	1
loc10	<i>Myotis daubentonii</i>	May	0	0	0	0	4
loc10	<i>Myotis daubentonii</i>	Jul	0	0	0	2	0
loc10	<i>Myotis daubentonii</i>	Aug	0	2	1	3	3
loc10	<i>Nyctalus</i>	Jul	0	1	0	1	0
loc10	<i>Nyctalus</i>	Aug	0	4	0	2	3

loc10	<i>Pipistrellus pipistrellus</i>	May	0	0	0	0	3
loc10	<i>Pipistrellus pipistrellus</i>	Jul	0	0	0	2	0
loc10	<i>Pipistrellus pipistrellus</i>	Aug	1	2	1	5	1
loc10	<i>Pipistrellus pygmaeus</i>	May	0	0	0	1	0
loc10	<i>Pipistrellus pygmaeus</i>	Jul	0	0	1	0	0
loc10	<i>Pipistrellus pygmaeus</i>	Aug	0	2	1	2	3
loc10	<i>Pipistrellus pygmaeus</i>	Sep	0	0	0	2	0
loc10	<i>Pipistrellus pygmaeus</i>	Oct	0	0	0	0	1
loc10	<i>Plecotus auritus</i>	Aug	0	0	0	2	0
loc11	<i>Myotis daubentonii</i>	May	0	0	0	4	4
loc11	<i>Myotis daubentonii</i>	Aug	0	0	1	2	3
loc11	<i>Myotis nattereri</i>	Jul	0	0	0	0	1
loc11	<i>Nyctalus</i>	Jul	0	0	1	0	1
loc11	<i>Nyctalus</i>	Aug	0	0	0	3	3
loc11	<i>Pipistrellus pipistrellus</i>	May	0	0	0	2	3
loc11	<i>Pipistrellus pipistrellus</i>	Jul	0	0	1	0	1
loc11	<i>Pipistrellus pipistrellus</i>	Aug	0	0	0	0	5
loc11	<i>Pipistrellus pygmaeus</i>	May	0	0	1	1	0
loc11	<i>Pipistrellus pygmaeus</i>	Jul	0	0	0	2	0
loc11	<i>Pipistrellus pygmaeus</i>	Aug	0	1	1	1	1
loc11	<i>Pipistrellus pygmaeus</i>	Sep	0	0	0	1	2
loc11	<i>Pipistrellus pygmaeus</i>	Oct	0	0	0	0	2

loc11	<i>Plecotus auritus</i>	Aug	0	0	0	1	1
loc12	<i>Myotis daubentonii</i>	May	0	0	0	0	5
loc12	<i>Myotis daubentonii</i>	Jul	0	0	0	2	0
loc12	<i>Myotis daubentonii</i>	Aug	0	0	0	3	2
loc12	<i>Myotis nattereri</i>	May	0	0	0	0	3
loc12	<i>Nyctalus</i>	May	0	0	0	0	1
loc12	<i>Nyctalus</i>	Jul	1	1	0	0	0
loc12	<i>Nyctalus</i>	Aug	0	2	1	0	2
loc12	<i>Pipistrellus pipistrellus</i>	May	0	0	0	1	3
loc12	<i>Pipistrellus pipistrellus</i>	Jul	0	0	0	1	0
loc12	<i>Pipistrellus pipistrellus</i>	Aug	0	0	1	4	2
loc12	<i>Pipistrellus pygmaeus</i>	May	0	0	0	0	2
loc12	<i>Pipistrellus pygmaeus</i>	Jul	0	0	1	0	0
loc12	<i>Pipistrellus pygmaeus</i>	Aug	0	1	0	1	3
loc12	<i>Pipistrellus pygmaeus</i>	Sep	1	1	1	1	0
loc12	<i>Pipistrellus pygmaeus</i>	Oct	0	3	0	0	1
loc12	<i>Plecotus auritus</i>	Jul	0	0	0	0	1
loc2	<i>Myotis daubentonii</i>	May	0	0	0	1	2
loc2	<i>Myotis daubentonii</i>	Aug	0	0	0	0	1
loc2	<i>Nyctalus</i>	Jul	0	1	0	0	1
loc2	<i>Nyctalus</i>	Aug	0	1	1	1	0
loc2	<i>Pipistrellus pipistrellus</i>	May	0	0	0	0	4
loc2	<i>Pipistrellus pipistrellus</i>	Jul	0	1	0	0	0
loc2	<i>Pipistrellus</i>	Aug	0	2	1	1	2

	<i>pipistrellus</i>						
loc2	<i>Pipistrellus pygmaeus</i>	Jul	0	0	0	0	1
loc2	<i>Pipistrellus pygmaeus</i>	Aug	0	0	0	0	2
loc2	<i>Pipistrellus pygmaeus</i>	Sep	0	0	0	0	2
loc2	<i>Pipistrellus pygmaeus</i>	Oct	0	0	1	0	1
loc2	<i>Plecotus auritus</i>	Aug	0	0	0	0	2
loc3	<i>Myotis daubentonii</i>	Aug	0	0	0	1	2
loc3	<i>Myotis nattereri</i>	Aug	0	0	0	0	1
loc3	<i>Nyctalus</i>	Jul	0	0	0	0	2
loc3	<i>Nyctalus</i>	Aug	0	0	1	2	2
loc3	<i>Pipistrellus pipistrellus</i>	May	0	0	0	0	2
loc3	<i>Pipistrellus pipistrellus</i>	Jul	0	0	0	0	1
loc3	<i>Pipistrellus pipistrellus</i>	Aug	0	0	0	1	2
loc3	<i>Pipistrellus pygmaeus</i>	May	0	0	0	0	1
loc3	<i>Plecotus auritus</i>	Jul	0	0	0	0	1
loc3	<i>Plecotus auritus</i>	Aug	0	0	0	2	2
loc4	<i>Myotis daubentonii</i>	Aug	0	0	0	1	2
loc4	<i>Myotis nattereri</i>	Aug	0	0	0	0	1
loc4	<i>Nyctalus</i>	Jul	0	0	0	0	2
loc4	<i>Nyctalus</i>	Aug	0	0	1	2	2
loc4	<i>Pipistrellus pipistrellus</i>	Jul	0	0	0	0	1
loc4	<i>Pipistrellus pipistrellus</i>	Aug	0	0	0	1	2
loc4	<i>Pipistrellus pygmaeus</i>	Sep	0	0	0	1	2
loc4	<i>Pipistrellus pygmaeus</i>	Oct	0	0	0	1	2
loc4	<i>Plecotus auritus</i>	Jul	0	0	0	0	1

loc4	<i>Plecotus auritus</i>	Aug	0	0	0	2	2
loc5	<i>Myotis daubentonii</i>	Aug	0	0	0	1	0
loc5	<i>Myotis nattereri</i>	Aug	0	0	0	0	1
loc5	<i>Nyctalus</i>	May	0	0	0	0	1
loc5	<i>Nyctalus</i>	Jul	0	0	1	0	0
loc5	<i>Nyctalus</i>	Aug	0	0	1	1	2
loc5	<i>Pipistrellus pipistrellus</i>	May	0	0	0	0	2
loc5	<i>Pipistrellus pipistrellus</i>	Jul	0	1	0	0	1
loc5	<i>Pipistrellus pipistrellus</i>	Aug	0	0	1	2	1
loc5	<i>Pipistrellus pygmaeus</i>	May	0	0	0	0	2
loc5	<i>Pipistrellus pygmaeus</i>	Aug	0	0	0	0	3
loc5	<i>Pipistrellus pygmaeus</i>	Oct	0	0	0	0	1
loc5	<i>Plecotus auritus</i>	Aug	0	0	0	2	1
loc6	<i>Myotis daubentonii</i>	May	0	0	0	1	1
loc6	<i>Myotis nattereri</i>	May	0	0	0	0	4
loc6	<i>Nyctalus</i>	Jul	0	1	0	0	0
loc6	<i>Pipistrellus pipistrellus</i>	May	1	0	1	1	1
loc6	<i>Pipistrellus pipistrellus</i>	Jul	2	0	0	0	0
loc6	<i>Pipistrellus pipistrellus</i>	Aug	7	2	0	1	0
loc6	<i>Pipistrellus pygmaeus</i>	May	0	1	0	1	0
loc6	<i>Pipistrellus pygmaeus</i>	Jul	2	0	0	0	0
loc6A	<i>Nyctalus</i>	Oct	0	1	0	1	0
loc6A	<i>Pipistrellus pipistrellus</i>	Oct	0	0	0	0	1
loc6A	<i>Pipistrellus pygmaeus</i>	Sep	1	1	1	1	1

loc6A	<i>Pipistrellus pygmaeus</i>	Oct	0	2	0	0	1
loc7	<i>Myotis daubentonii</i>	Sep	0	0	0	0	1
loc7	<i>Myotis daubentonii</i>	Oct	0	0	0	2	0
loc7	<i>Myotis nattereri</i>	Oct	0	0	0	1	0
loc7	<i>Nyctalus</i>	May	0	0	0	0	1
loc7	<i>Nyctalus</i>	Sep	0	0	0	0	2
loc7	<i>Pipistrellus pipistrellus</i>	May	0	0	1	1	1
loc7	<i>Pipistrellus pipistrellus</i>	Jul	2	0	0	0	0
loc7	<i>Pipistrellus pipistrellus</i>	Aug	6	3	0	0	0
loc7	<i>Pipistrellus pipistrellus</i>	Oct	0	0	0	0	2
loc7	<i>Pipistrellus pygmaeus</i>	May	0	0	0	1	1
loc7	<i>Pipistrellus pygmaeus</i>	Sep	0	0	0	0	2
loc7	<i>Pipistrellus pygmaeus</i>	Oct	0	0	0	0	2
loc7	<i>Plecotus auritus</i>	Sep	0	0	0	0	4
loc8	<i>Myotis daubentonii</i>	May	0	0	0	0	1
loc8	<i>Myotis daubentonii</i>	Aug	0	0	0	0	2
loc8	<i>Myotis nattereri</i>	May	0	0	0	0	1
loc8	<i>Nyctalus</i>	Aug	0	0	1	1	4
loc8	<i>Pipistrellus pipistrellus</i>	May	2	1	1	1	0
loc8	<i>Pipistrellus pipistrellus</i>	Jul	2	0	0	0	0
loc8	<i>Pipistrellus pipistrellus</i>	Aug	5	2	0	1	1
loc8	<i>Pipistrellus pygmaeus</i>	May	0	1	0	1	2
loc8	<i>Pipistrellus pygmaeus</i>	Aug	4	2	0	1	0

loc8	<i>Plecotus auritus</i>	Aug	0	0	2	0	2
loc8A	<i>Pipistrellus pipistrellus</i>	Sep	0	0	0	0	1
loc9	<i>Myotis daubentonii</i>	May	0	0	0	6	2
loc9	<i>Myotis nattereri</i>	May	0	0	0	0	4
loc9	<i>Myotis nattereri</i>	Aug	0	0	0	0	1
loc9	<i>Nyctalus</i>	May	0	0	0	1	0
loc9	<i>Nyctalus</i>	Jul	1	0	0	1	0
loc9	<i>Nyctalus</i>	Aug	0	2	0	0	0
loc9	<i>Pipistrellus pipistrellus</i>	May	0	3	0	3	2
loc9	<i>Pipistrellus pipistrellus</i>	Jul	2	0	0	0	0
loc9	<i>Pipistrellus pipistrellus</i>	Aug	3	0	0	0	0
loc9	<i>Pipistrellus pygmaeus</i>	May	0	1	0	3	2
loc9	<i>Pipistrellus pygmaeus</i>	Jul	2	0	0	0	0
loc9	<i>Pipistrellus pygmaeus</i>	Aug	12	0	0	0	0
loc9	<i>Plecotus auritus</i>	May	0	0	0	0	1
loc9	<i>Plecotus auritus</i>	Jul	0	0	0	0	1
loc9	<i>Plecotus auritus</i>	Aug	0	0	1	0	0
loc9A	<i>Pipistrellus pipistrellus</i>	Sep	0	1	0	0	0
loc9A	<i>Pipistrellus pygmaeus</i>	Sep	1	0	0	0	0

Table 6. Summary table showing key metrics for each species recorded per month. Please note that we cannot split the reference range by month, hence this column is not shown in this table.

Detector ID	Species/Species Group	Month	Median Percentile	95% CIs	Max Percentile	Nights Recorded
loc1	<i>Myotis daubentonii</i>	May	2	2 - 2	2	1
loc1	<i>Myotis daubentonii</i>	Jul	2	2 - 2	2	1
loc1	<i>Myotis daubentonii</i>	Aug	2	2 - 2	2	1
loc1	<i>Nyctalus</i>	May	2	2 - 2	2	1
loc1	<i>Nyctalus</i>	Jul	2	2 - 2	2	1
loc1	<i>Nyctalus</i>	Aug	2	2 - 2	2	3
loc1	<i>Pipistrellus pipistrellus</i>	May	47	20.5 - 53.5	68	4
loc1	<i>Pipistrellus pipistrellus</i>	Jul	39	20.5 - 53.5	39	1
loc1	<i>Pipistrellus pipistrellus</i>	Aug	39	20.5 - 53.5	39	3
loc1	<i>Pipistrellus pygmaeus</i>	May	47	2 - 46.5	54	2
loc1	<i>Pipistrellus pygmaeus</i>	Aug	39	2 - 46.5	39	3
loc1	<i>Pipistrellus pygmaeus</i>	Sep	21	2 - 46.5	54	4
loc1	<i>Pipistrellus pygmaeus</i>	Oct	2	2 - 46.5	2	1
loc10	<i>Myotis daubentonii</i>	May	2	2 - 39	2	4
loc10	<i>Myotis daubentonii</i>	Jul	39	2 - 39	39	2
loc10	<i>Myotis daubentonii</i>	Aug	39	2 - 39	68	9
loc10	<i>Nyctalus</i>	Jul	51	20.5 - 67.5	63	2
loc10	<i>Nyctalus</i>	Aug	39	20.5 - 67.5	72	9

loc10	<i>Pipistrellus pipistrellus</i>	May	2	20.5 - 53.5	2	3
loc10	<i>Pipistrellus pipistrellus</i>	Jul	39	20.5 - 53.5	39	2
loc10	<i>Pipistrellus pipistrellus</i>	Aug	39	20.5 - 53.5	83	10
loc10	<i>Pipistrellus pygmaeus</i>	May	39	20.5 - 51	39	1
loc10	<i>Pipistrellus pygmaeus</i>	Jul	54	20.5 - 51	54	1
loc10	<i>Pipistrellus pygmaeus</i>	Aug	39	20.5 - 51	68	8
loc10	<i>Pipistrellus pygmaeus</i>	Sep	39	20.5 - 51	39	2
loc10	<i>Pipistrellus pygmaeus</i>	Oct	2	20.5 - 51	2	1
loc10	<i>Plecotus auritus</i>	Aug	39	39 - 39	39	2
loc11	<i>Myotis daubentonii</i>	May	21	2 - 39	39	8
loc11	<i>Myotis daubentonii</i>	Aug	21	2 - 39	54	6
loc11	<i>Myotis nattereri</i>	Jul	2	0	2	1
loc11	<i>Nyctalus</i>	Jul	28	2 - 39	54	2
loc11	<i>Nyctalus</i>	Aug	21	2 - 39	39	6
loc11	<i>Pipistrellus pipistrellus</i>	May	2	2 - 20.5	39	5
loc11	<i>Pipistrellus pipistrellus</i>	Jul	28	2 - 20.5	54	2
loc11	<i>Pipistrellus pipistrellus</i>	Aug	2	2 - 20.5	2	5
loc11	<i>Pipistrellus pygmaeus</i>	May	47	20.5 - 46.5	54	2
loc11	<i>Pipistrellus pygmaeus</i>	Jul	39	20.5 - 46.5	39	2
loc11	<i>Pipistrellus pygmaeus</i>	Aug	47	20.5 - 46.5	63	4
loc11	<i>Pipistrellus pygmaeus</i>	Sep	2	20.5 - 46.5	39	3
loc11	<i>Pipistrellus</i>	Oct	2	20.5 -	2	2

	<i>pygmaeus</i>			46.5		
loc11	<i>Plecotus auritus</i>	Aug	21	20.5 - 20.5	39	2
loc12	<i>Myotis daubentonii</i>	May	2	2 - 39	2	5
loc12	<i>Myotis daubentonii</i>	Jul	39	2 - 39	39	2
loc12	<i>Myotis daubentonii</i>	Aug	39	2 - 39	39	5
loc12	<i>Myotis nattereri</i>	May	2	2 - 2	2	3
loc12	<i>Nyctalus</i>	May	2	2 - 71.5	2	1
loc12	<i>Nyctalus</i>	Jul	79	2 - 71.5	82	2
loc12	<i>Nyctalus</i>	Aug	54	2 - 71.5	68	5
loc12	<i>Pipistrellus pipistrellus</i>	May	2	2 - 39	39	4
loc12	<i>Pipistrellus pipistrellus</i>	Jul	39	2 - 39	39	1
loc12	<i>Pipistrellus pipistrellus</i>	Aug	39	2 - 39	54	7
loc12	<i>Pipistrellus pygmaeus</i>	May	2	20.5 - 58.5	2	2
loc12	<i>Pipistrellus pygmaeus</i>	Jul	54	20.5 - 58.5	54	1
loc12	<i>Pipistrellus pygmaeus</i>	Aug	2	20.5 - 58.5	75	5
loc12	<i>Pipistrellus pygmaeus</i>	Sep	63	20.5 - 58.5	84	4
loc12	<i>Pipistrellus pygmaeus</i>	Oct	63	20.5 - 58.5	63	4
loc12	<i>Plecotus auritus</i>	Jul	2	0	2	1
loc2	<i>Myotis daubentonii</i>	May	2	2 - 2	39	3
loc2	<i>Myotis daubentonii</i>	Aug	2	2 - 2	2	1
loc2	<i>Nyctalus</i>	Jul	33	28 - 63	63	2
loc2	<i>Nyctalus</i>	Aug	54	28 -	63	3

				63		
loc2	<i>Pipistrellus pipistrellus</i>	May	2	2 - 39	2	4
loc2	<i>Pipistrellus pipistrellus</i>	Jul	63	2 - 39	63	1
loc2	<i>Pipistrellus pipistrellus</i>	Aug	47	2 - 39	72	6
loc2	<i>Pipistrellus pygmaeus</i>	Jul	2	2 - 2	2	1
loc2	<i>Pipistrellus pygmaeus</i>	Aug	2	2 - 2	2	2
loc2	<i>Pipistrellus pygmaeus</i>	Sep	2	2 - 2	2	2
loc2	<i>Pipistrellus pygmaeus</i>	Oct	28	2 - 2	54	2
loc2	<i>Plecotus auritus</i>	Aug	2	2 - 2	2	2
loc3	<i>Myotis daubentonii</i>	Aug	2	2 - 2	39	3
loc3	<i>Myotis nattereri</i>	Aug	2	0	2	1
loc3	<i>Nyctalus</i>	Jul	2	2 - 28	2	2
loc3	<i>Nyctalus</i>	Aug	39	2 - 28	54	5
loc3	<i>Pipistrellus pipistrellus</i>	May	2	2 - 2	2	2
loc3	<i>Pipistrellus pipistrellus</i>	Jul	2	2 - 2	2	1
loc3	<i>Pipistrellus pipistrellus</i>	Aug	2	2 - 2	39	3
loc3	<i>Pipistrellus pygmaeus</i>	May	2	0	2	1
loc3	<i>Plecotus auritus</i>	Jul	2	2 - 20.5	2	1
loc3	<i>Plecotus auritus</i>	Aug	21	2 - 20.5	39	4
loc4	<i>Myotis daubentonii</i>	Aug	2	2 - 2	39	3
loc4	<i>Myotis nattereri</i>	Aug	2	0	2	1
loc4	<i>Nyctalus</i>	Jul	2	2 - 28	2	2
loc4	<i>Nyctalus</i>	Aug	39	2 - 28	54	5
loc4	<i>Pipistrellus pipistrellus</i>	Jul	2	2 - 2	2	1

loc4	<i>Pipistrellus pipistrellus</i>	Aug	2	2 - 2	39	3
loc4	<i>Pipistrellus pygmaeus</i>	Sep	2	2 - 20.5	39	3
loc4	<i>Pipistrellus pygmaeus</i>	Oct	2	2 - 20.5	39	3
loc4	<i>Plecotus auritus</i>	Jul	2	2 - 20.5	2	1
loc4	<i>Plecotus auritus</i>	Aug	21	2 - 20.5	39	4
loc5	<i>Myotis daubentonii</i>	Aug	39	0	39	1
loc5	<i>Myotis nattereri</i>	Aug	2	0	2	1
loc5	<i>Nyctalus</i>	May	2	2 - 46.5	2	1
loc5	<i>Nyctalus</i>	Jul	54	2 - 46.5	54	1
loc5	<i>Nyctalus</i>	Aug	21	2 - 46.5	54	4
loc5	<i>Pipistrellus pipistrellus</i>	May	2	2 - 46.5	2	2
loc5	<i>Pipistrellus pipistrellus</i>	Jul	37	2 - 46.5	72	2
loc5	<i>Pipistrellus pipistrellus</i>	Aug	39	2 - 46.5	54	4
loc5	<i>Pipistrellus pygmaeus</i>	May	2	2 - 2	2	2
loc5	<i>Pipistrellus pygmaeus</i>	Aug	2	2 - 2	2	3
loc5	<i>Pipistrellus pygmaeus</i>	Oct	2	2 - 2	2	1
loc5	<i>Plecotus auritus</i>	Aug	39	39 - 39	39	3
loc6	<i>Myotis daubentonii</i>	May	21	20.5 - 20.5	39	2
loc6	<i>Myotis nattereri</i>	May	2	2 - 2	2	4
loc6	<i>Nyctalus</i>	Jul	68	0	68	1
loc6	<i>Pipistrellus pipistrellus</i>	May	47	60.5 - 95.5	80	4
loc6	<i>Pipistrellus</i>	Jul	96	60.5 -	100	2

	<i>pipistrellus</i>			95.5		
loc6	<i>Pipistrellus</i>	Aug	96	60.5 -	100	10
	<i>pipistrellus</i>			95.5		
loc6	<i>Pipistrellus</i>	May	54	39 -	68	2
	<i>pygmaeus</i>			95		
loc6	<i>Pipistrellus</i>	Jul	93	39 -	95	2
	<i>pygmaeus</i>			95		
loc6A	<i>Nyctalus</i>	Oct	51	51 -	63	2
				51		
loc6A	<i>Pipistrellus</i>	Oct	2	0	2	1
	<i>pipistrellus</i>					
loc6A	<i>Pipistrellus</i>	Sep	54	20.5 -	96	5
	<i>pygmaeus</i>			82		
loc6A	<i>Pipistrellus</i>	Oct	68	20.5 -	79	3
	<i>pygmaeus</i>			82		
loc7	<i>Myotis</i>	Sep	2	39 -	2	1
	<i>daubentonii</i>			39		
loc7	<i>Myotis</i>	Oct	39	39 -	39	2
	<i>daubentonii</i>			39		
loc7	<i>Myotis nattereri</i>	Oct	39	0	39	1
loc7	<i>Nyctalus</i>	May	2	2 - 2	2	1
loc7	<i>Nyctalus</i>	Sep	2	2 - 2	2	2
loc7	<i>Pipistrellus</i>	May	39	43 -	54	3
	<i>pipistrellus</i>			83.5		
loc7	<i>Pipistrellus</i>	Jul	88	43 -	88	2
	<i>pipistrellus</i>			83.5		
loc7	<i>Pipistrellus</i>	Aug	82	43 -	92	9
	<i>pipistrellus</i>			83.5		
loc7	<i>Pipistrellus</i>	Oct	2	43 -	2	2
	<i>pipistrellus</i>			83.5		
loc7	<i>Pipistrellus</i>	May	21	2 - 2	39	2
	<i>pygmaeus</i>					
loc7	<i>Pipistrellus</i>	Sep	2	2 - 2	2	2
	<i>pygmaeus</i>					
loc7	<i>Pipistrellus</i>	Oct	2	2 - 2	2	2
	<i>pygmaeus</i>					
loc7	<i>Plecotus auritus</i>	Sep	2	2 - 2	2	4
loc8	<i>Myotis</i>	May	2	2 - 2	2	1
	<i>daubentonii</i>					
loc8	<i>Myotis</i>	Aug	2	2 - 2	2	2

	<i>daubentonii</i>					
loc8	<i>Myotis nattereri</i>	May	2	0	2	1
loc8	<i>Nyctalus</i>	Aug	2	2 - 28	54	6
loc8	<i>Pipistrellus pipistrellus</i>	May	72	61 - 90	88	5
loc8	<i>Pipistrellus pipistrellus</i>	Jul	98	61 - 90	98	2
loc8	<i>Pipistrellus pipistrellus</i>	Aug	83	61 - 90	97	9
loc8	<i>Pipistrellus pygmaeus</i>	May	21	38.5 - 82.5	75	4
loc8	<i>Pipistrellus pygmaeus</i>	Aug	80	38.5 - 82.5	92	7
loc8	<i>Plecotus auritus</i>	Aug	28	2 - 54	54	4
loc8A	<i>Pipistrellus pipistrellus</i>	Sep	2	0	2	1
loc9	<i>Myotis daubentonii</i>	May	39	20.5 - 39	39	8
loc9	<i>Myotis nattereri</i>	May	2	2 - 2	2	4
loc9	<i>Myotis nattereri</i>	Aug	2	2 - 2	2	1
loc9	<i>Nyctalus</i>	May	39	39 - 75	39	1
loc9	<i>Nyctalus</i>	Jul	63	39 - 75	87	2
loc9	<i>Nyctalus</i>	Aug	68	39 - 75	72	2
loc9	<i>Pipistrellus pipistrellus</i>	May	39	39.5 - 86	77	8
loc9	<i>Pipistrellus pipistrellus</i>	Jul	93	39.5 - 86	94	2
loc9	<i>Pipistrellus pipistrellus</i>	Aug	95	39.5 - 86	95	3
loc9	<i>Pipistrellus pygmaeus</i>	May	39	61.5 - 93	68	6
loc9	<i>Pipistrellus pygmaeus</i>	Jul	88	61.5 - 93	92	2
loc9	<i>Pipistrellus pygmaeus</i>	Aug	95	61.5 - 93	98	12
loc9	<i>Plecotus auritus</i>	May	2	2 - 2	2	1
loc9	<i>Plecotus auritus</i>	Jul	2	2 - 2	2	1

loc9	<i>Plecotus auritus</i>	Aug	54	2 - 2	54	1
loc9A	<i>Pipistrellus</i> <i>pipistrellus</i>	Sep	79	0	79	1
loc9A	<i>Pipistrellus</i> <i>pygmaeus</i>	Sep	92	0	92	1

PER SITE

In this 'Per Site' section of the analysis, all values are taken from across all of the detectors to provide site-wide averages/medians.

Table 7. Summary table showing the number of nights recorded bat activity fell into each activity band for each species.

Species/Species Group	Nights of High Activity	Nights of Moderate/ High Activity	Nights of Moderate Activity	Nights of Low/ Moderate Activity	Nights of Low Activity
<i>Myotis daubentonii</i>	0	2	2	29	38
<i>Myotis nattereri</i>	0	0	0	1	17
<i>Nyctalus</i>	2	14	8	16	34
<i>Pipistrellus pipistrellus</i>	33	19	9	33	46
<i>Pipistrellus pygmaeus</i>	23	16	10	26	47
<i>Plecotus auritus</i>	0	0	3	9	19

Table 8. Summary table showing key metrics for each species recorded.

Species/Species Group	Median Percentile	95% CIs	Max Percentile	Nights Recorded
<i>Myotis daubentonii</i>	2	39 - 39	68	71
<i>Myotis nattereri</i>	2	2 - 2	39	18
<i>Nyctalus</i>	39	51 - 51	87	74
<i>Pipistrellus pipistrellus</i>	39	61 - 90	100	140
<i>Pipistrellus pygmaeus</i>	39	61.5 - 93	98	122
<i>Plecotus auritus</i>	2	39 - 39	54	31

###Figures

Figure 4. The activity level (percentile) of bats recorded across each night of the bat survey for the entire site.

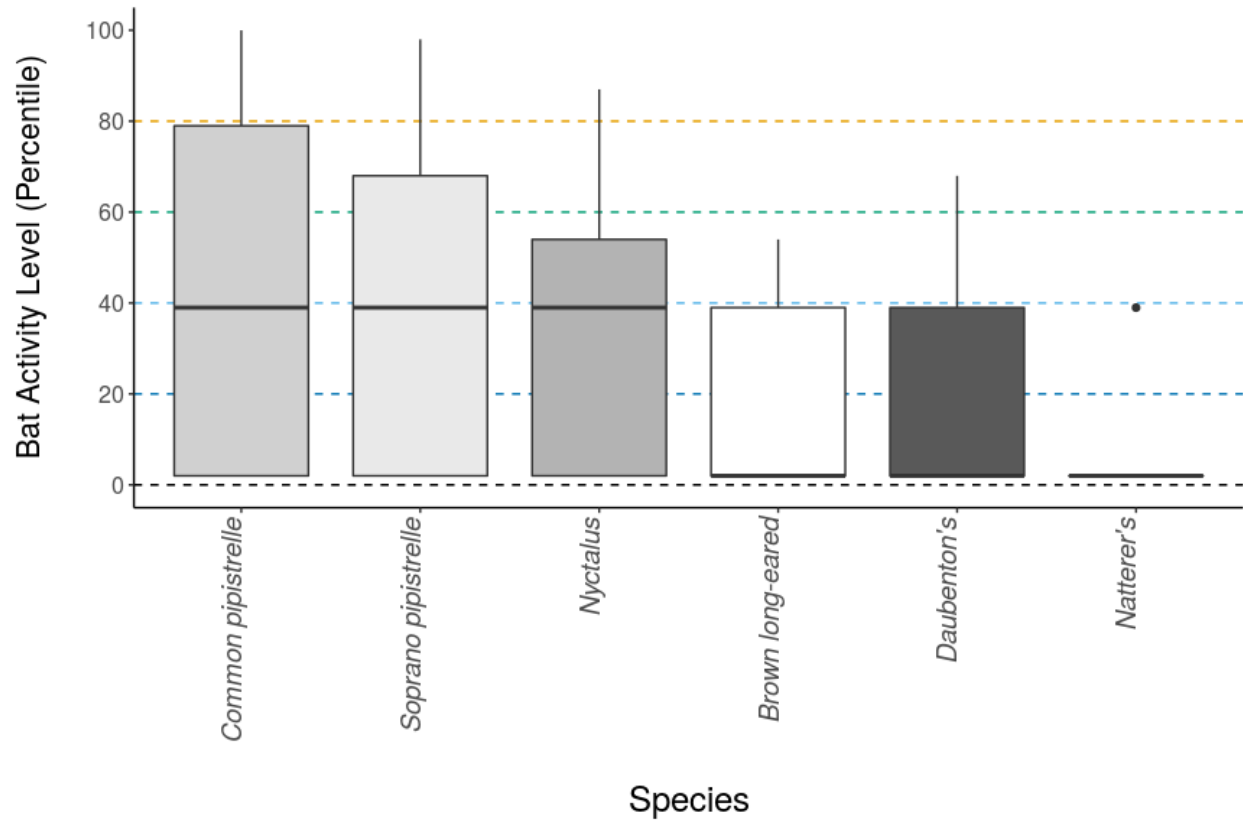
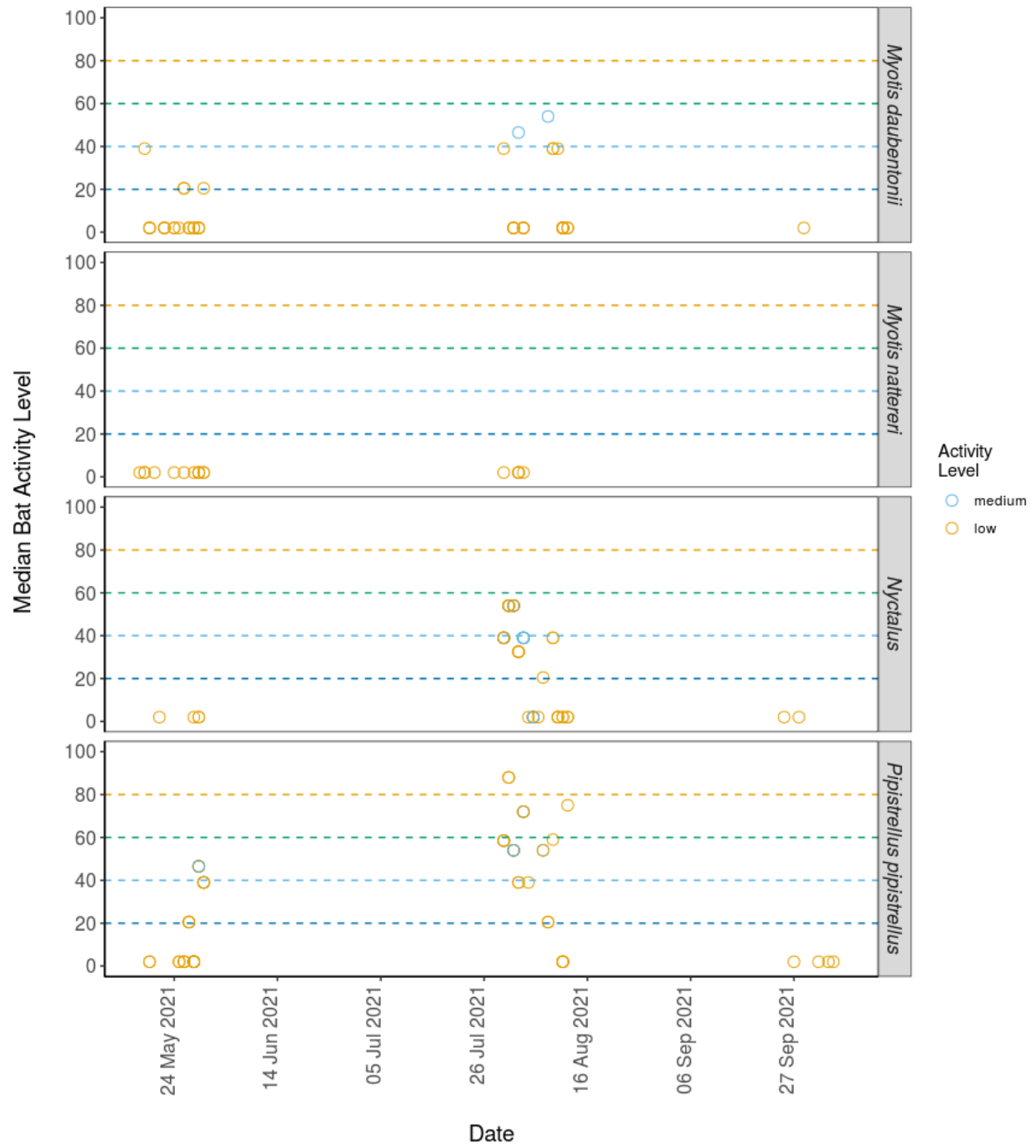
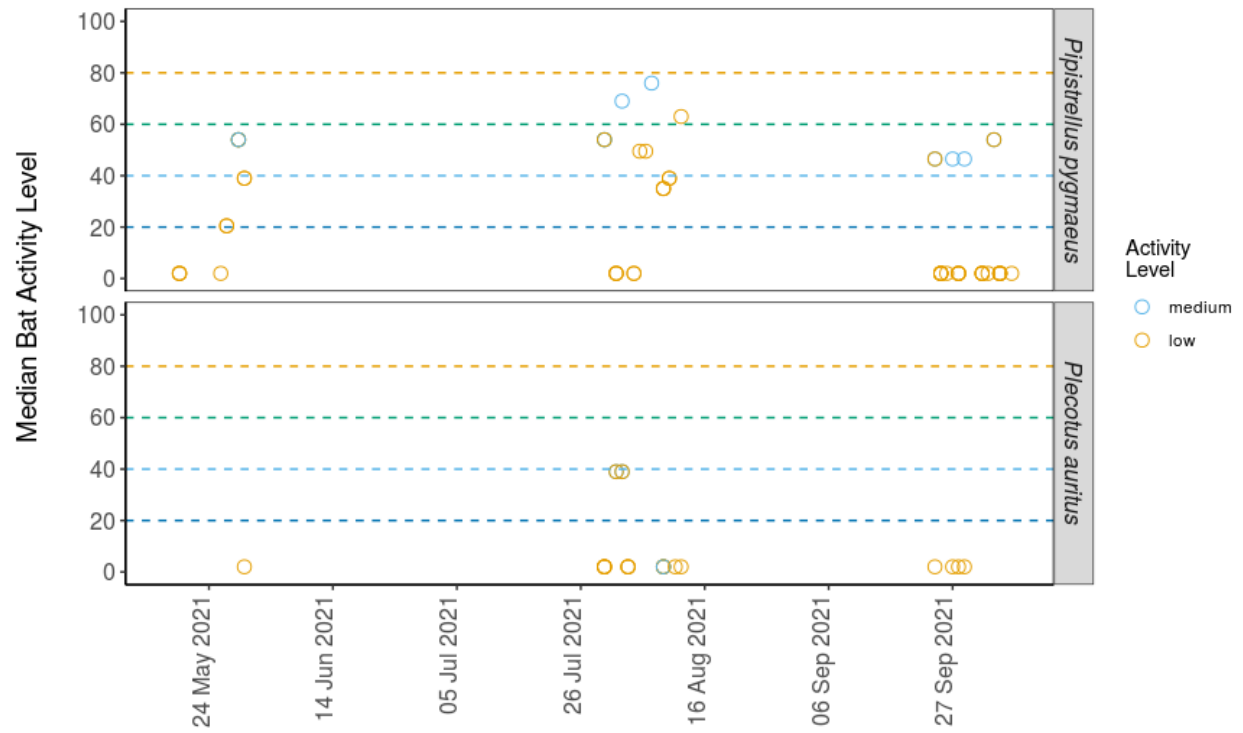


Figure 5. The median activity levels of bats recorded across all detectors each night.





PER SITE, PER MONTH

Table 9. Summary table showing the number of nights recorded bat activity fell into each activity band for each species during each month.

Species/Species Group	Month	Nights of High Activity	Nights of Moderate/ High Activity	Nights of Moderate Activity	Nights of Low/ Moderate Activity	Nights of Low Activity
<i>Myotis daubentonii</i>	May	0	0	0	12	20
<i>Myotis daubentonii</i>	Jul	0	0	0	4	1
<i>Myotis daubentonii</i>	Aug	0	2	2	11	16
<i>Myotis daubentonii</i>	Sep	0	0	0	0	1
<i>Myotis daubentonii</i>	Oct	0	0	0	2	0
<i>Myotis nattereri</i>	May	0	0	0	0	12
<i>Myotis nattereri</i>	Jul	0	0	0	0	1
<i>Myotis nattereri</i>	Aug	0	0	0	0	4
<i>Myotis nattereri</i>	Oct	0	0	0	1	0
<i>Nyctalus</i>	May	0	0	0	1	4
<i>Nyctalus</i>	Jul	2	4	2	2	7
<i>Nyctalus</i>	Aug	0	9	6	12	21
<i>Nyctalus</i>	Sep	0	0	0	0	2
<i>Nyctalus</i>	Oct	0	1	0	1	0
<i>Pipistrellus pipistrellus</i>	May	3	5	4	10	22
<i>Pipistrellus pipistrellus</i>	Jul	8	2	1	4	4
<i>Pipistrellus pipistrellus</i>	Aug	22	11	4	19	16
<i>Pipistrellus pipistrellus</i>	Sep	0	1	0	0	1
<i>Pipistrellus pipistrellus</i>	Oct	0	0	0	0	3
<i>Pipistrellus pygmaeus</i>	May	0	3	2	9	10

<i>Pipistrellus pygmaeus</i>	Jul	4	0	2	2	1
<i>Pipistrellus pygmaeus</i>	Aug	16	6	2	7	13
<i>Pipistrellus pygmaeus</i>	Sep	3	2	3	7	11
<i>Pipistrellus pygmaeus</i>	Oct	0	5	1	1	12
<i>Plecotus auritus</i>	May	0	0	0	0	1
<i>Plecotus auritus</i>	Jul	0	0	0	0	4
<i>Plecotus auritus</i>	Aug	0	0	3	9	10
<i>Plecotus auritus</i>	Sep	0	0	0	0	4

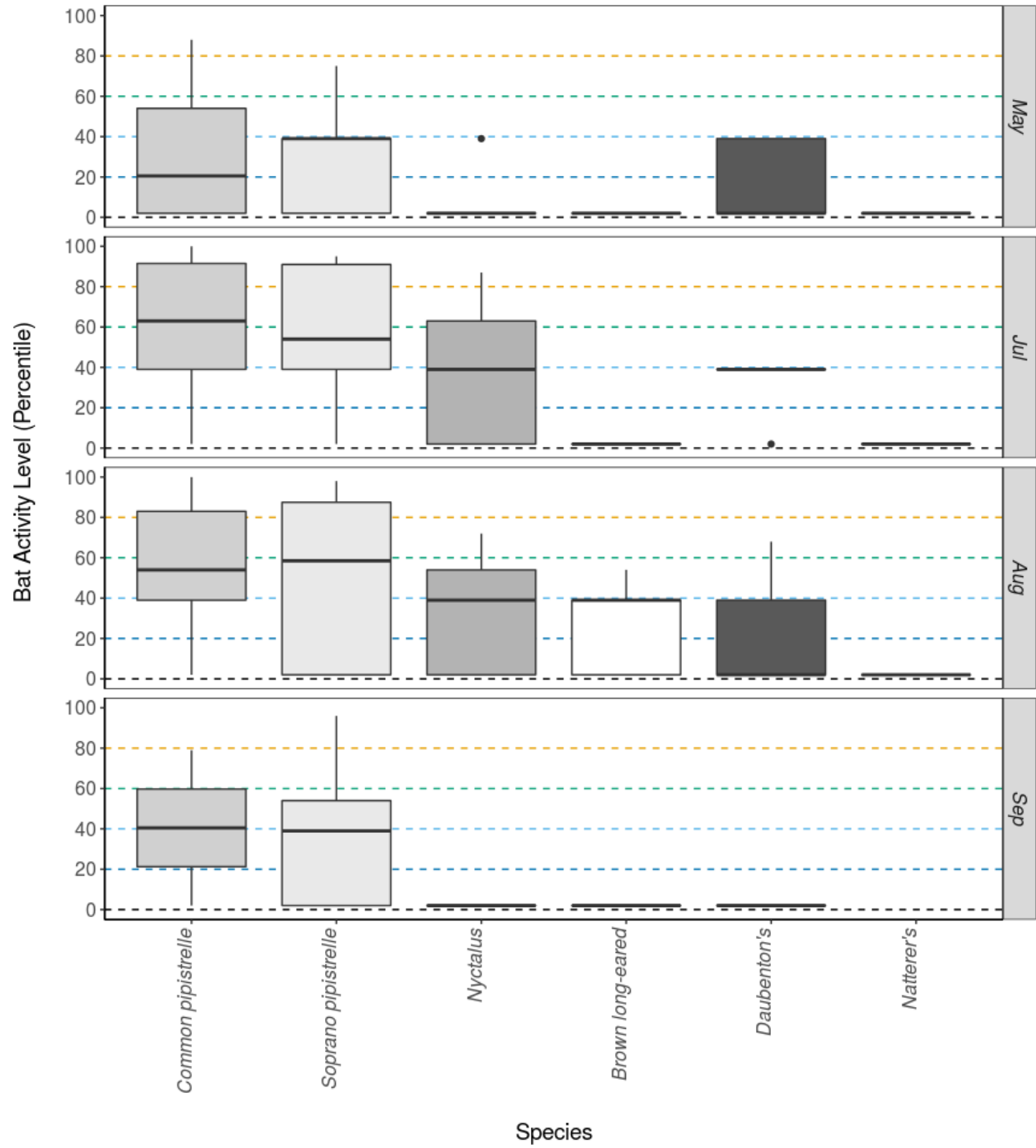
Table 10. Summary table showing key metrics for each species recorded per month.

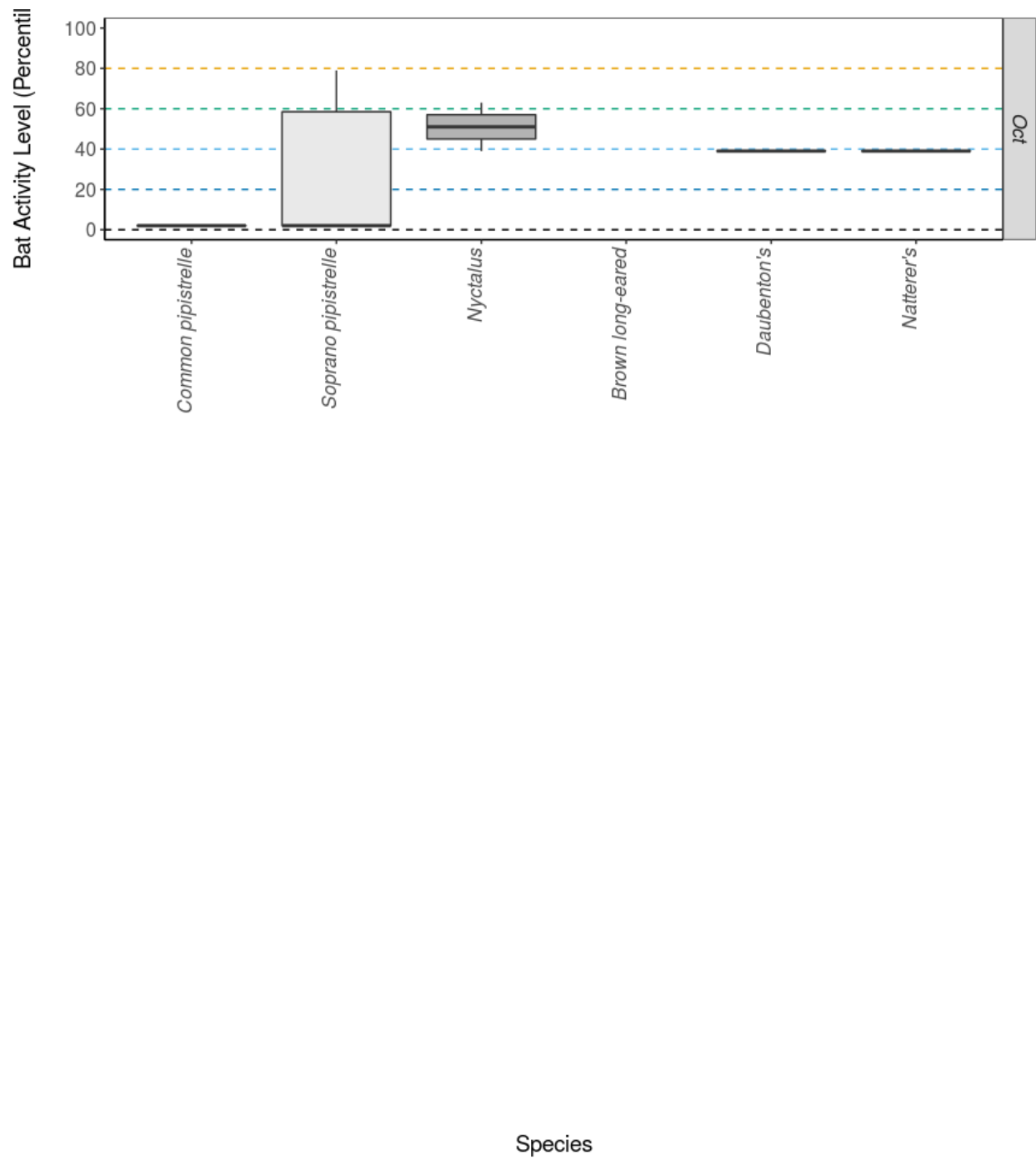
Species/Species Group	Month	Median Percentile	95% CIs	Max Percentile	Nights Recorded
<i>Myotis daubentonii</i>	May	2	20.5 - 39	39	32
<i>Myotis daubentonii</i>	Jul	39	2 - 39	39	5
<i>Myotis daubentonii</i>	Aug	2	2 - 39	68	31
<i>Myotis daubentonii</i>	Sep	2	39 - 39	2	1
<i>Myotis daubentonii</i>	Oct	39	39 - 39	39	2
<i>Myotis nattereri</i>	May	2	2 - 2	2	12
<i>Myotis nattereri</i>	Jul	2	0	2	1
<i>Myotis nattereri</i>	Aug	2	2 - 2	2	4
<i>Myotis nattereri</i>	Oct	39	0	39	1
<i>Nyctalus</i>	May	2	39 - 75	39	5
<i>Nyctalus</i>	Jul	39	39 - 75	87	17
<i>Nyctalus</i>	Aug	39	39 - 75	72	48
<i>Nyctalus</i>	Sep	2	2 - 2	2	2
<i>Nyctalus</i>	Oct	51	51 - 51	63	2
<i>Pipistrellus pipistrellus</i>	May	21	61 - 90	88	44
<i>Pipistrellus pipistrellus</i>	Jul	63	61 - 90	100	19
<i>Pipistrellus pipistrellus</i>	Aug	54	61 - 90	100	72
<i>Pipistrellus pipistrellus</i>	Sep	41	0	79	2
<i>Pipistrellus pipistrellus</i>	Oct	2	43 - 83.5	2	3
<i>Pipistrellus pygmaeus</i>	May	39	61.5 - 93	75	24
<i>Pipistrellus pygmaeus</i>	Jul	54	61.5 - 93	95	9
<i>Pipistrellus pygmaeus</i>	Aug	59	61.5 - 93	98	44
<i>Pipistrellus pygmaeus</i>	Sep	39	20.5 - 82	96	26
<i>Pipistrellus</i>	Oct	2	20.5 -	79	19

<i>pygmaeus</i>			82		
<i>Plecotus auritus</i>	May	2	2 - 2	2	1
<i>Plecotus auritus</i>	Jul	2	2 - 20.5	2	4
<i>Plecotus auritus</i>	Aug	39	39 - 39	54	22
<i>Plecotus auritus</i>	Sep	2	2 - 2	2	4

###Figures

Figure 6. The activity level (percentile) of bats recorded across each night of the bat survey for the entire site, split between months.





PART 2: Nightly Analysis

ENTIRE SURVEY PERIOD

Sunrise and Sunset Times

Table 11. The times of sunset and sunrise the following morning for surveys beginning on the date shown.

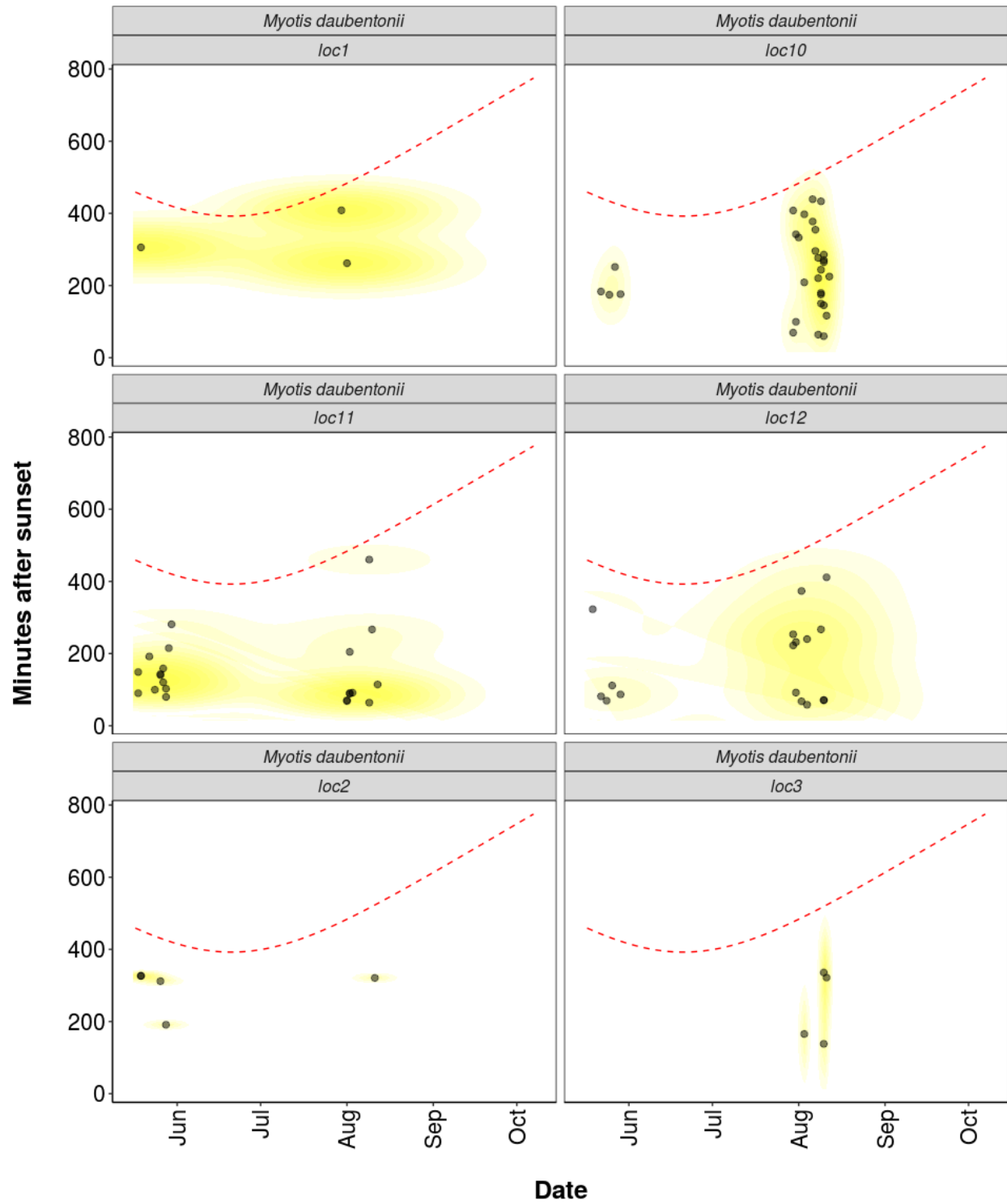
Night (y-m-d)	Sunset (hh:mm)	Sunrise (hh:mm)	Night Length (hours)
2021-05-17	21:25	05:04	7.7
2021-05-18	21:26	05:02	7.6
2021-05-19	21:28	05:00	7.5
2021-05-20	21:30	04:59	7.5
2021-05-21	21:32	04:57	7.4
2021-05-22	21:33	04:56	7.4
2021-05-24	21:37	04:53	7.3
2021-05-25	21:38	04:52	7.2
2021-05-26	21:40	04:50	7.2
2021-05-27	21:41	04:49	7.1
2021-05-28	21:43	04:48	7.1
2021-05-29	21:44	04:47	7.0
2021-05-30	21:46	04:46	7.0
2021-07-30	21:28	05:24	7.9
2021-07-31	21:26	05:26	8.0
2021-08-01	21:24	05:27	8.1
2021-08-02	21:22	05:29	8.1
2021-08-03	21:20	05:31	8.2
2021-08-04	21:18	05:33	8.2
2021-08-05	21:16	05:35	8.3
2021-08-06	21:14	05:37	8.4
2021-08-07	21:12	05:39	8.4
2021-08-08	21:10	05:40	8.5
2021-08-09	21:08	05:42	8.6
2021-08-10	21:05	05:44	8.6
2021-08-11	21:03	05:46	8.7
2021-08-12	21:01	05:48	8.8

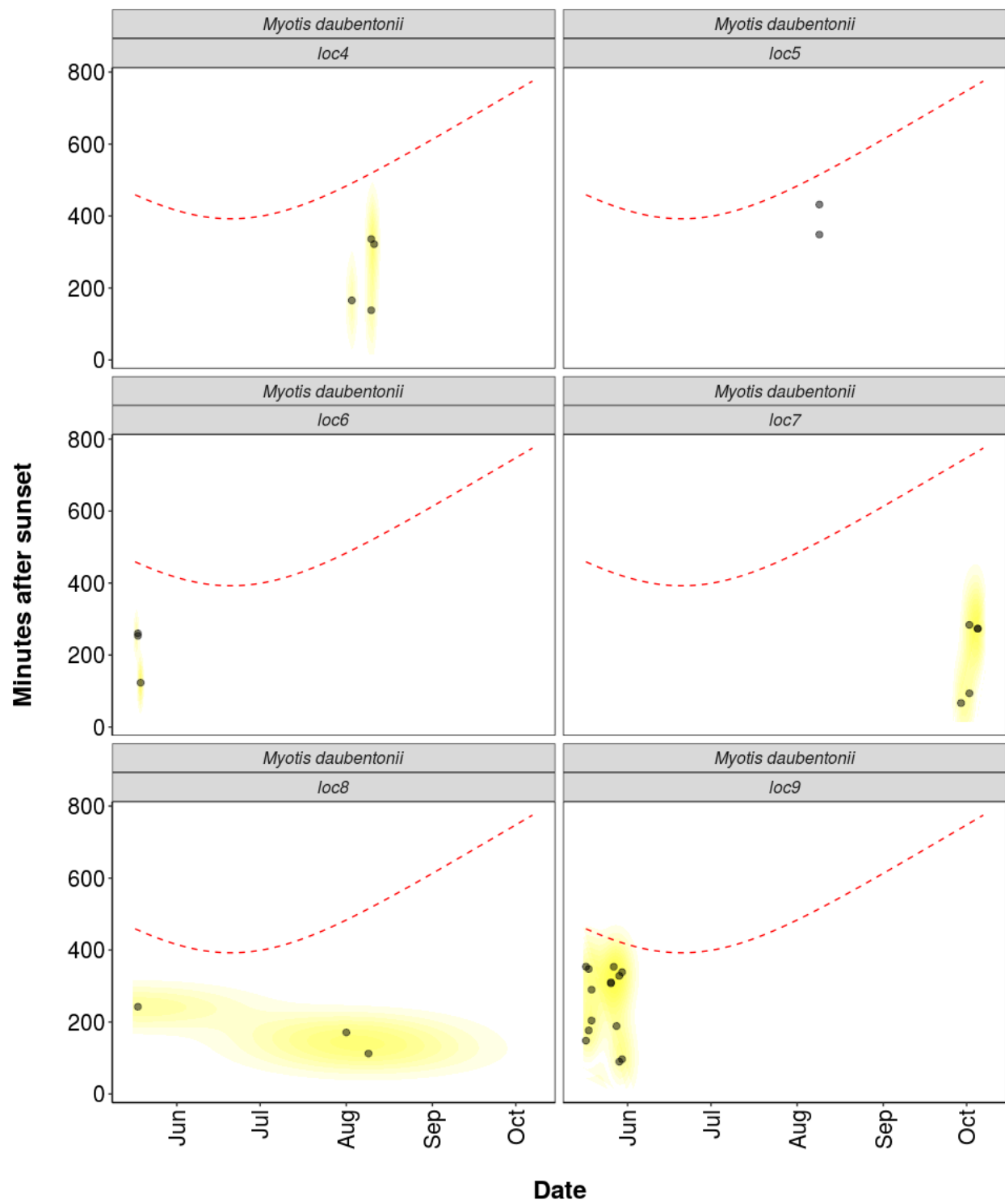
2021-09-24	19:13	07:10	11.9
2021-09-25	19:11	07:11	12.0
2021-09-26	19:08	07:13	12.1
2021-09-27	19:06	07:15	12.2
2021-09-28	19:03	07:17	12.2
2021-09-29	19:00	07:19	12.3
2021-09-30	18:58	07:21	12.4
2021-10-01	18:55	07:23	12.5
2021-10-02	18:53	07:25	12.5
2021-10-03	18:50	07:27	12.6
2021-10-04	18:47	07:29	12.7
2021-10-05	18:45	07:31	12.8
2021-10-06	18:42	07:33	12.8
2021-10-07	18:40	07:35	12.9

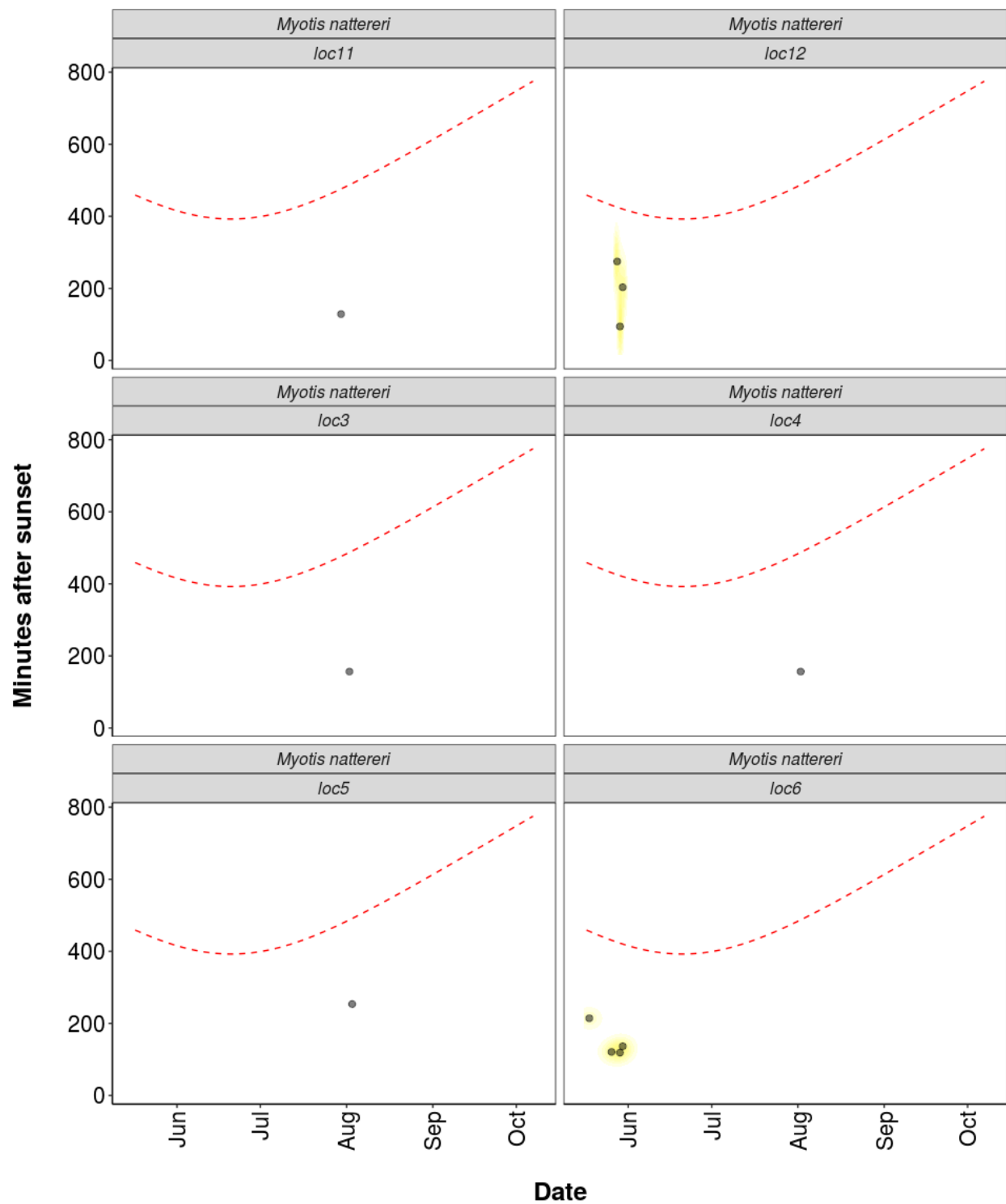
Distribution of Bat Activity Across the Night through Time

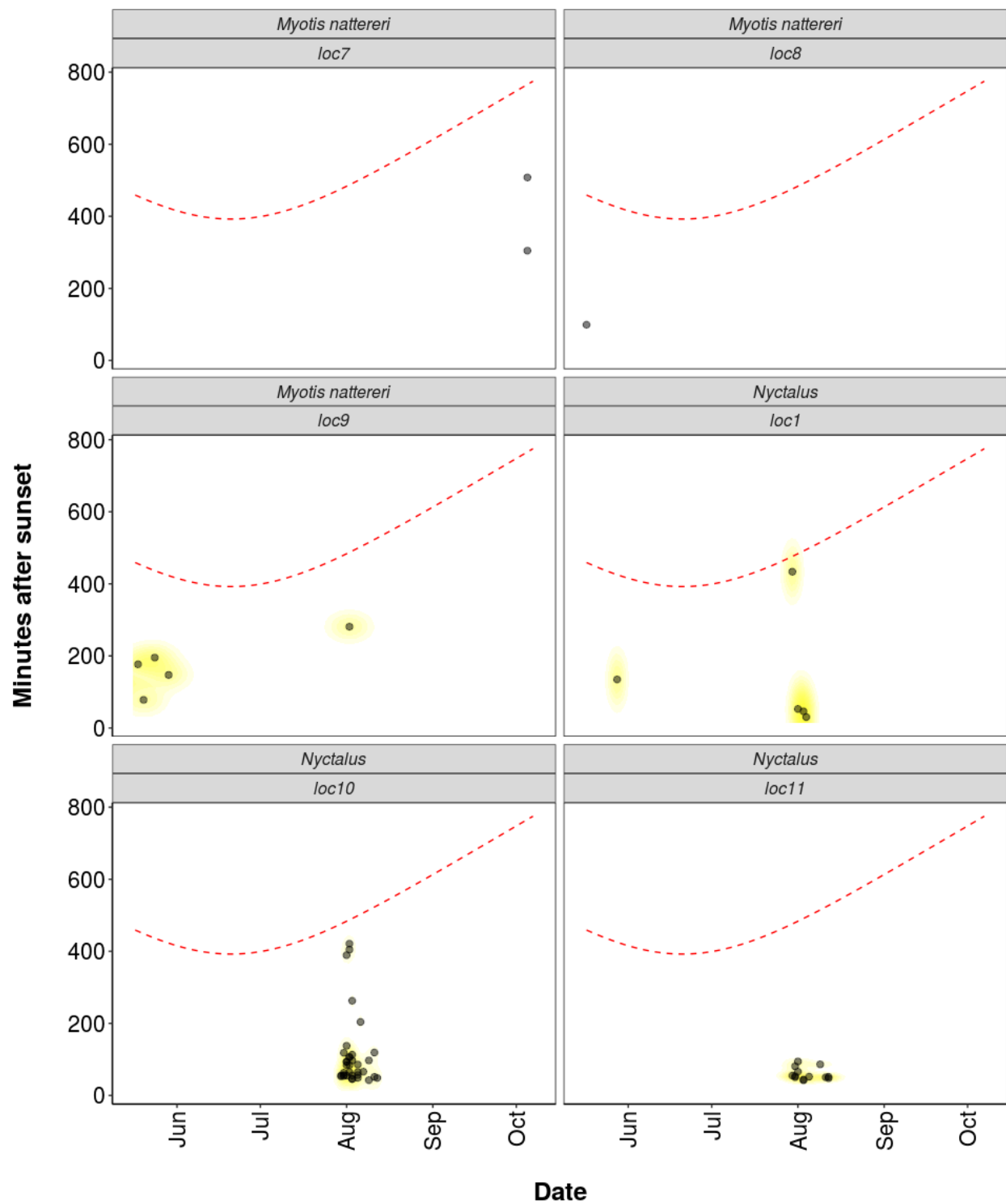
Per Detector

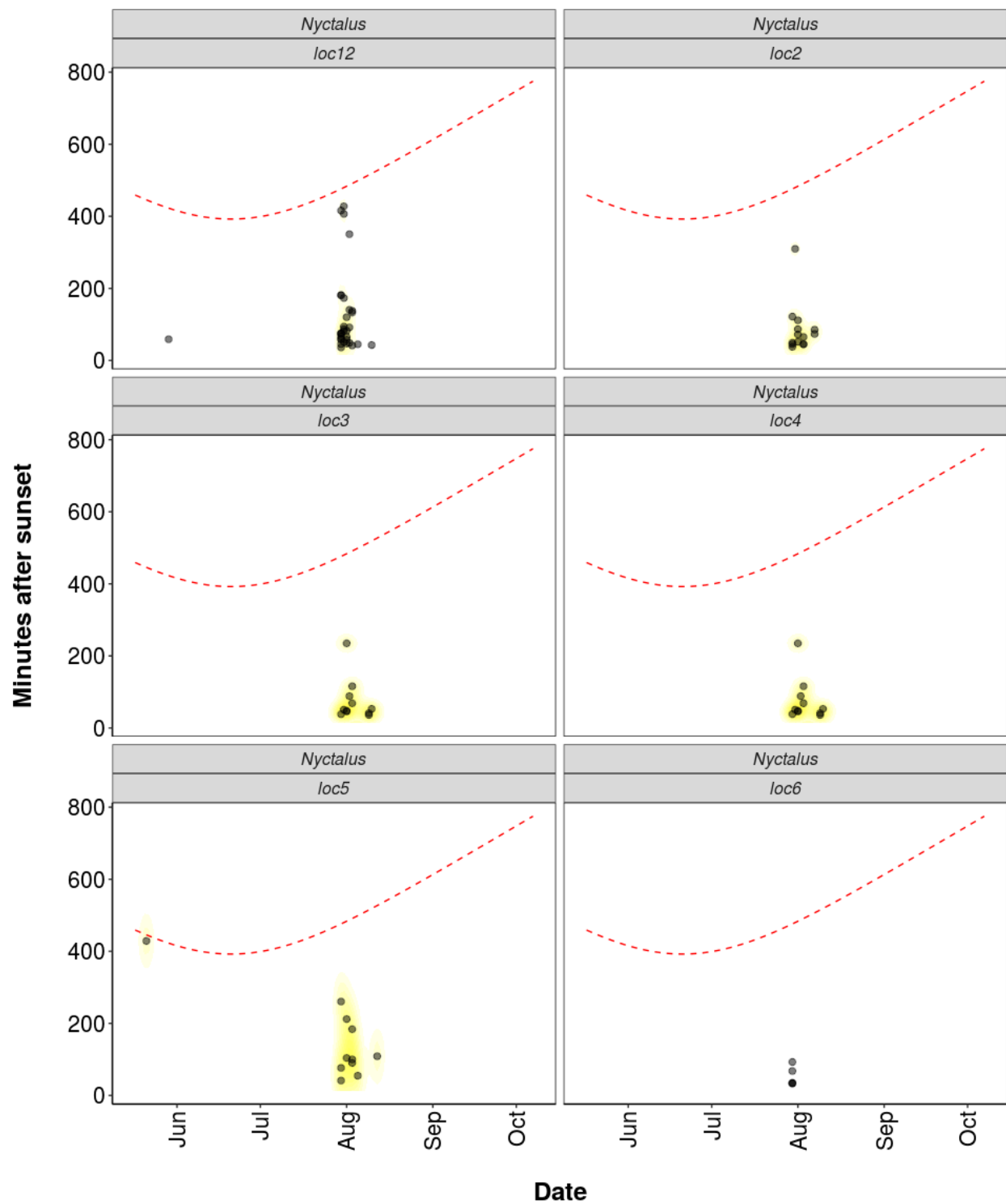
Figure 7. Timing of bat calls plotted as minutes before/after sunset, whereby 0 on the y axis represents sunset. Sunrise throughout the survey period is depicted as the red dashed line. Colours indicate kernel densities, with darkest colours showing peaks of activity. These colours are comparative only within each plot, and do not account for overall activity.

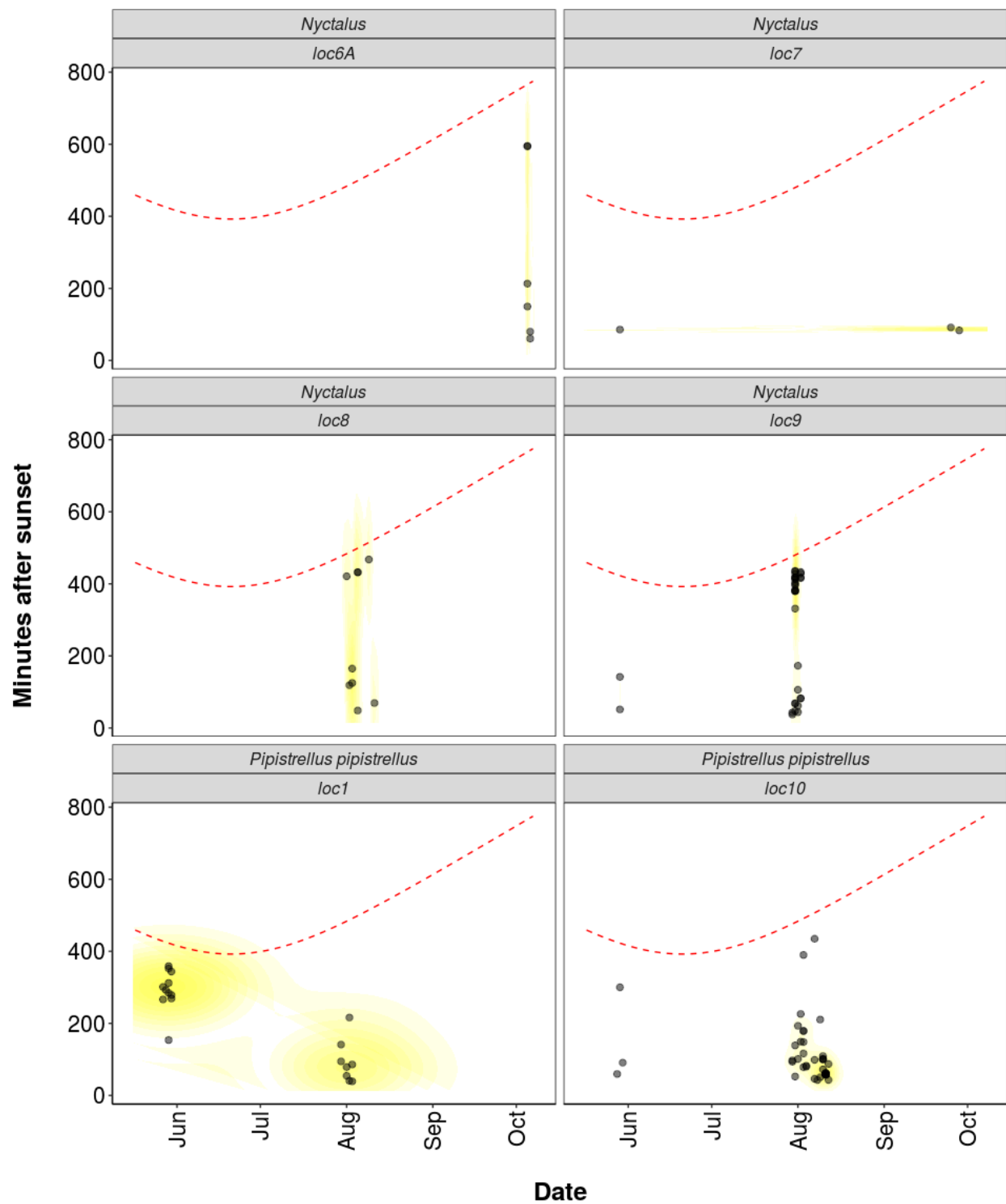


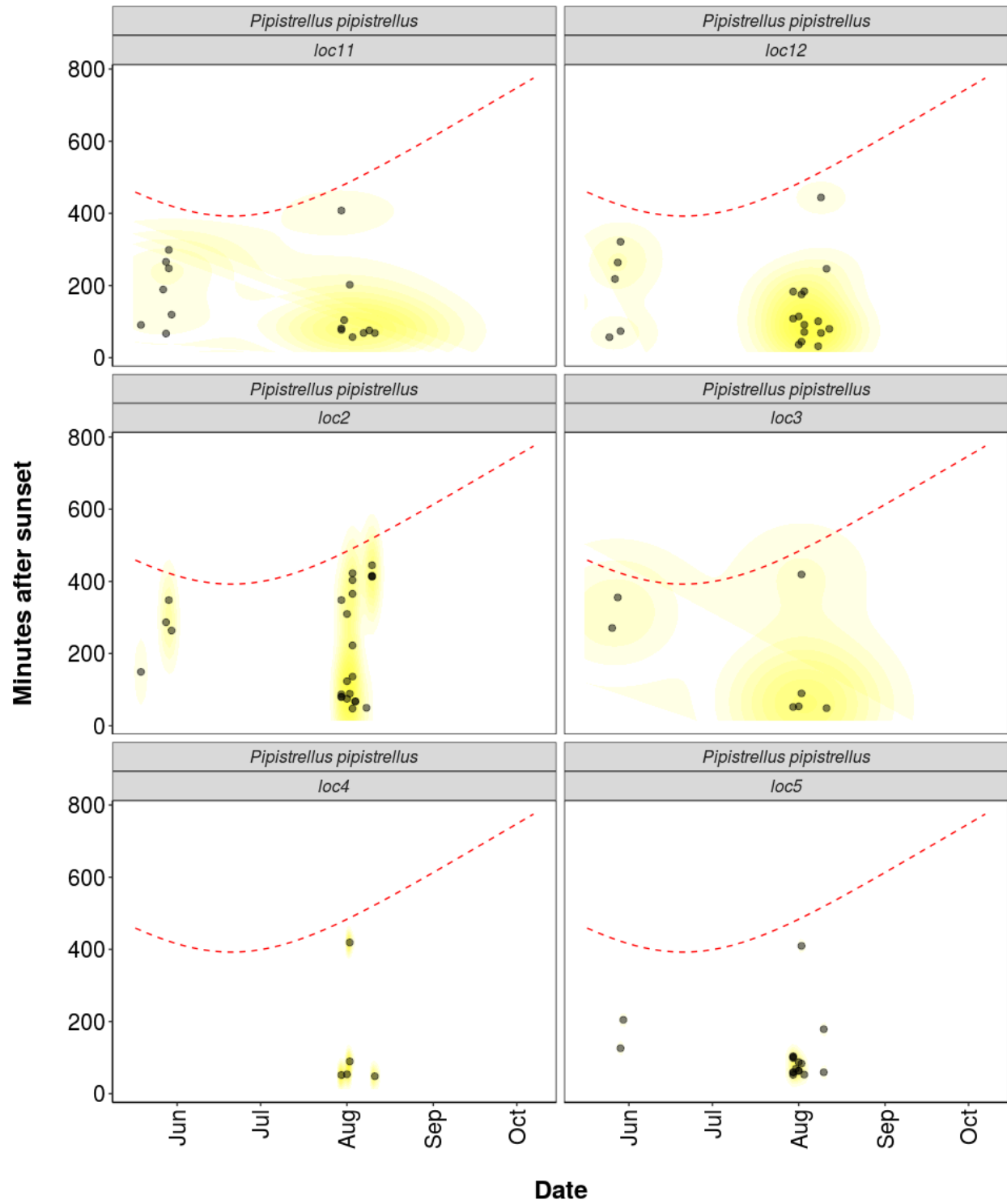


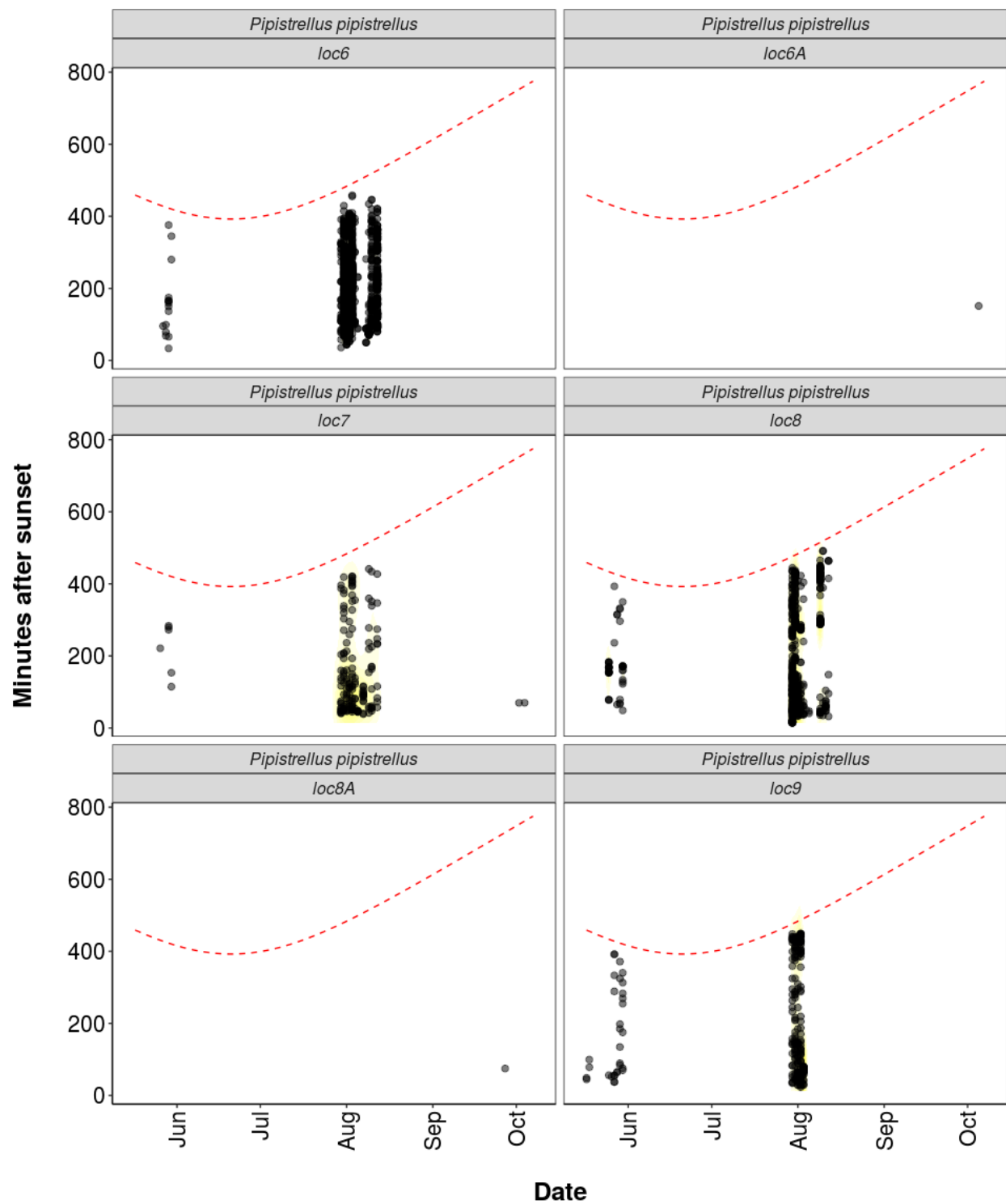


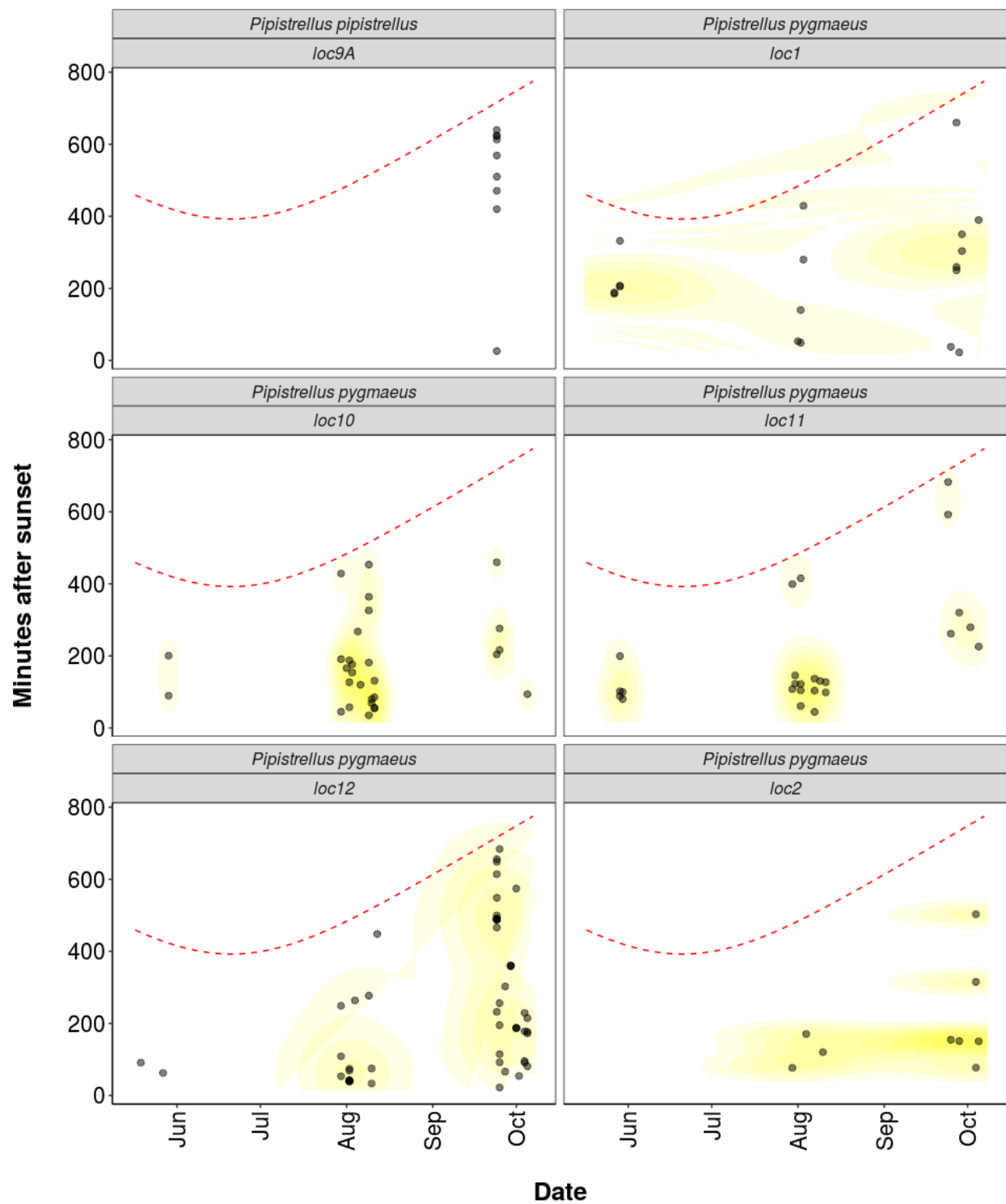


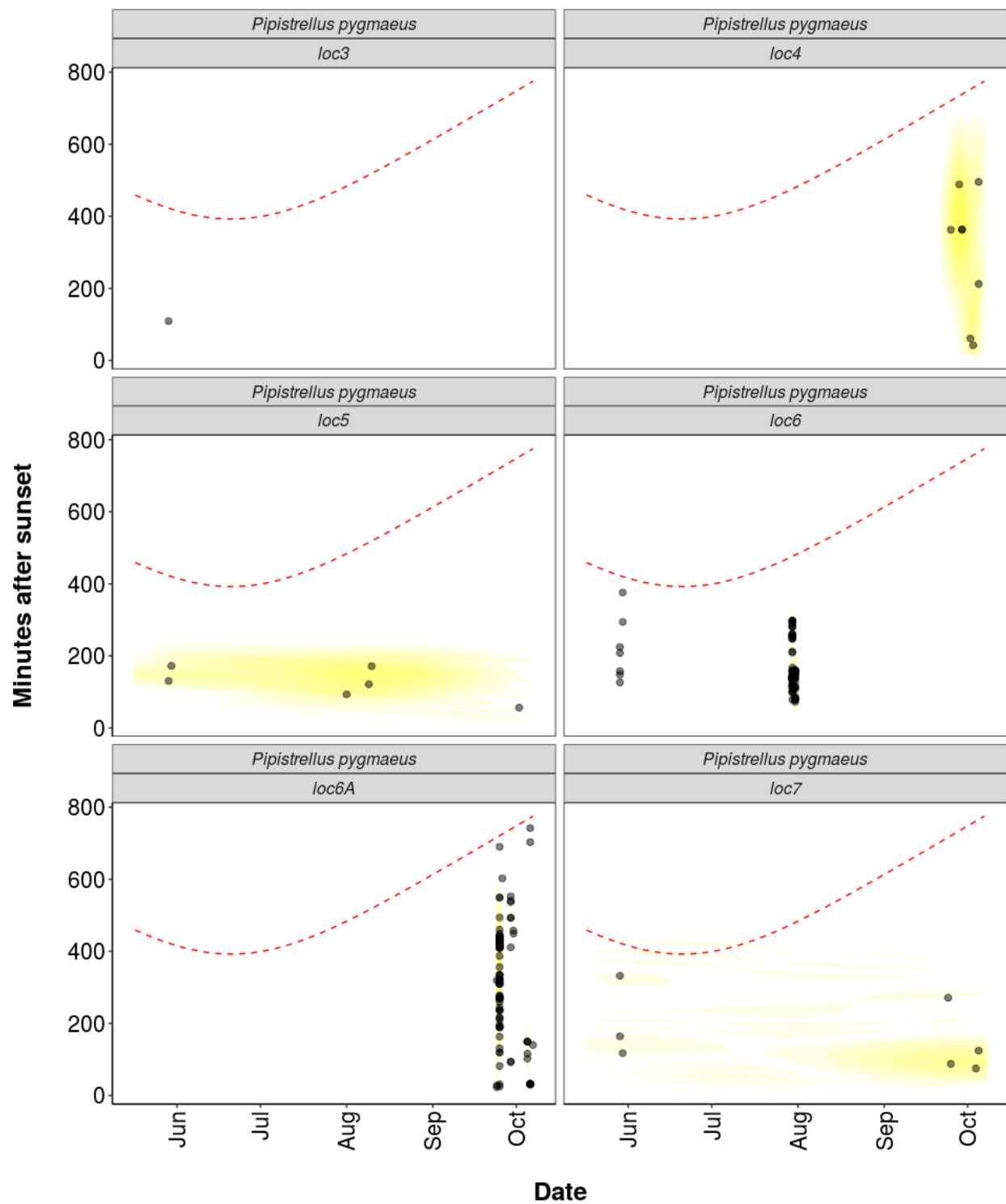


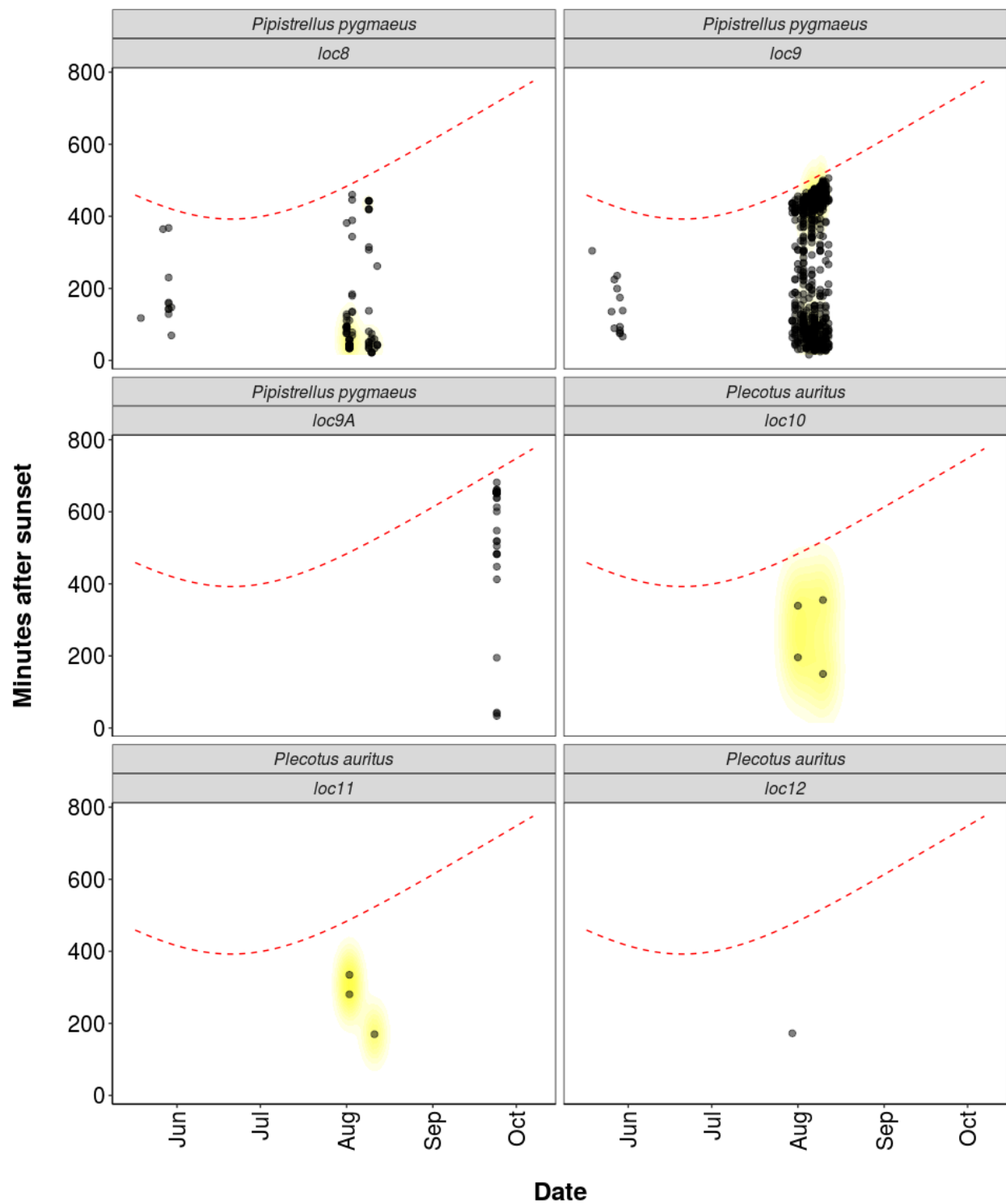


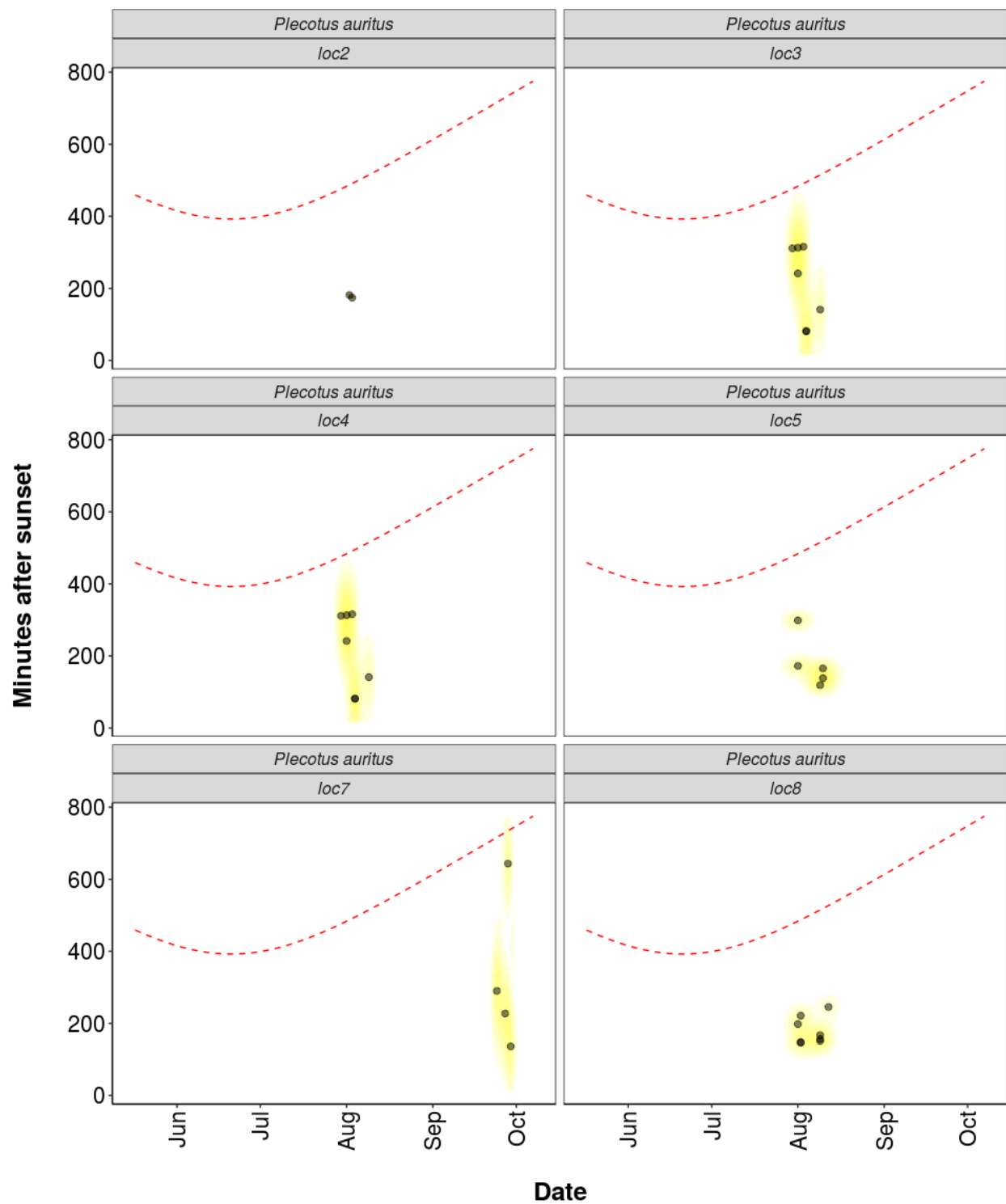


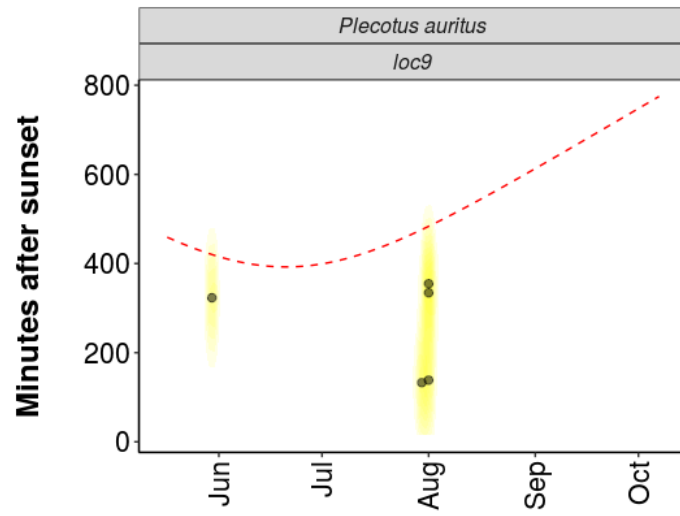












Date

Roost Emergence Time and Bat Observation

Based on: Russ, Jon. 2012. *British Bat Calls a Guide to species Identification*. Pelagic Publishing.

For more information see <https://rbats-blog.updog.co/2018/05/29/bat-emergence/>

Bat Passes Potentially Indicating Close Proximity to a Roost (Russ 2012) - Table

Table 12. Number of bat calls recorded before the upper time of the species-specific emergence time range, and which therefore may potentially indicate the presence of a nearby roost.

Table continues below

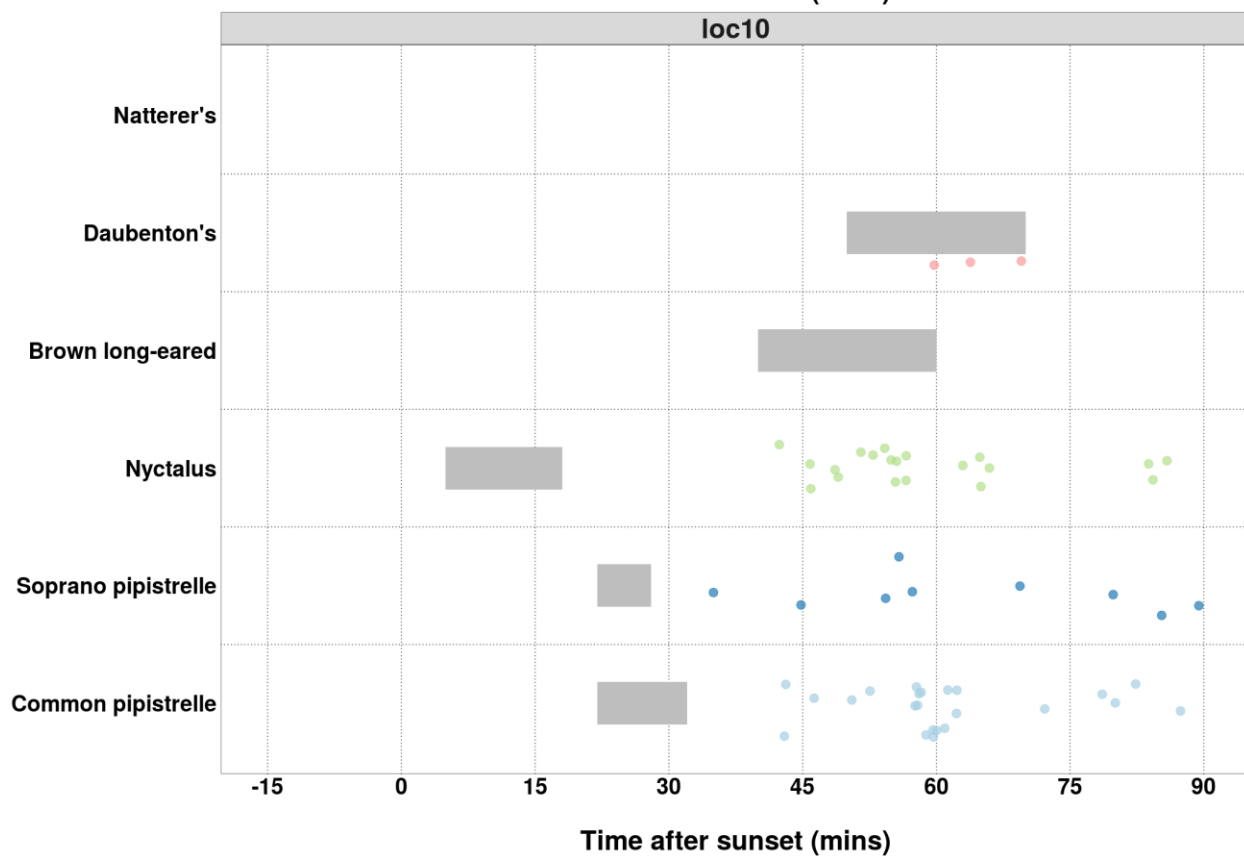
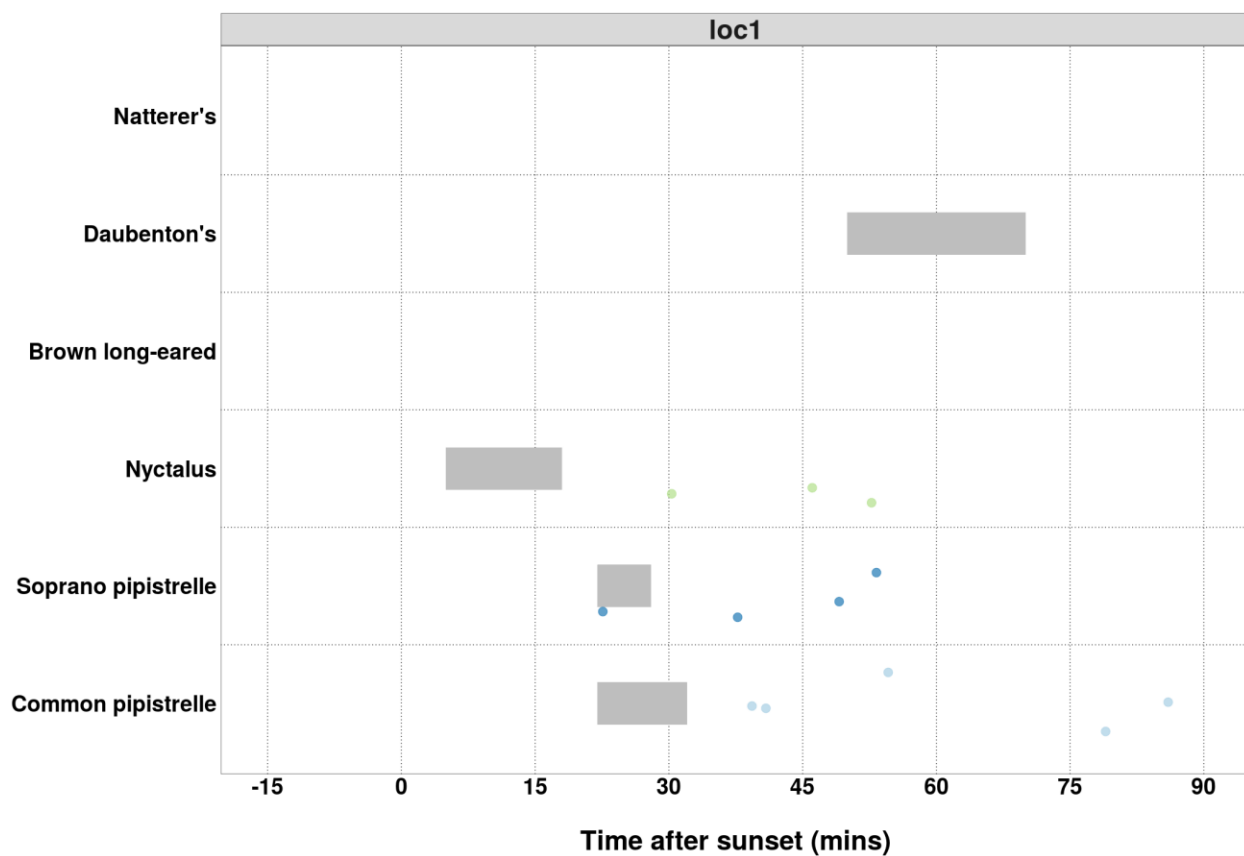
Species	Detector ID	2021-05-24	2021-07-30	2021-08-01	2021-08-02	2021-08-03
Common pipistrelle	loc12	0	0	0	0	0
Common pipistrelle	loc8	0	32	0	0	0
Common pipistrelle	loc9	0	0	2	3	2
Common pipistrelle	loc9A	0	0	0	0	0
Soprano pipistrelle	loc1	0	0	0	0	0
Soprano pipistrelle	loc12	0	0	0	0	0
Soprano pipistrelle	loc6A	0	0	0	0	0
Soprano pipistrelle	loc8	0	0	0	0	0
Soprano pipistrelle	loc9	0	0	0	0	0
Daubenton's	loc10	0	1	0	0	0
Daubenton's	loc11	0	0	1	0	0
Daubenton's	loc12	1	0	0	1	0
Daubenton's	loc7	0	0	0	0	0

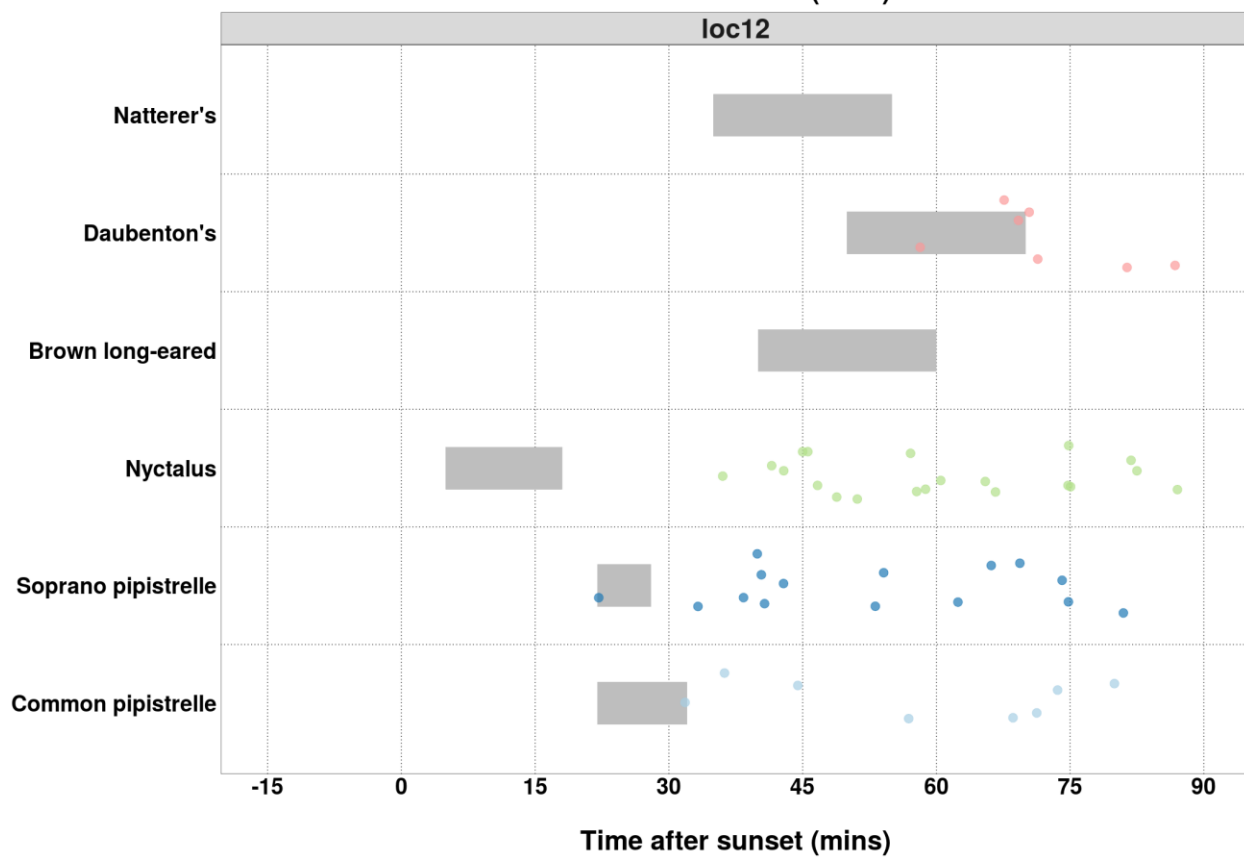
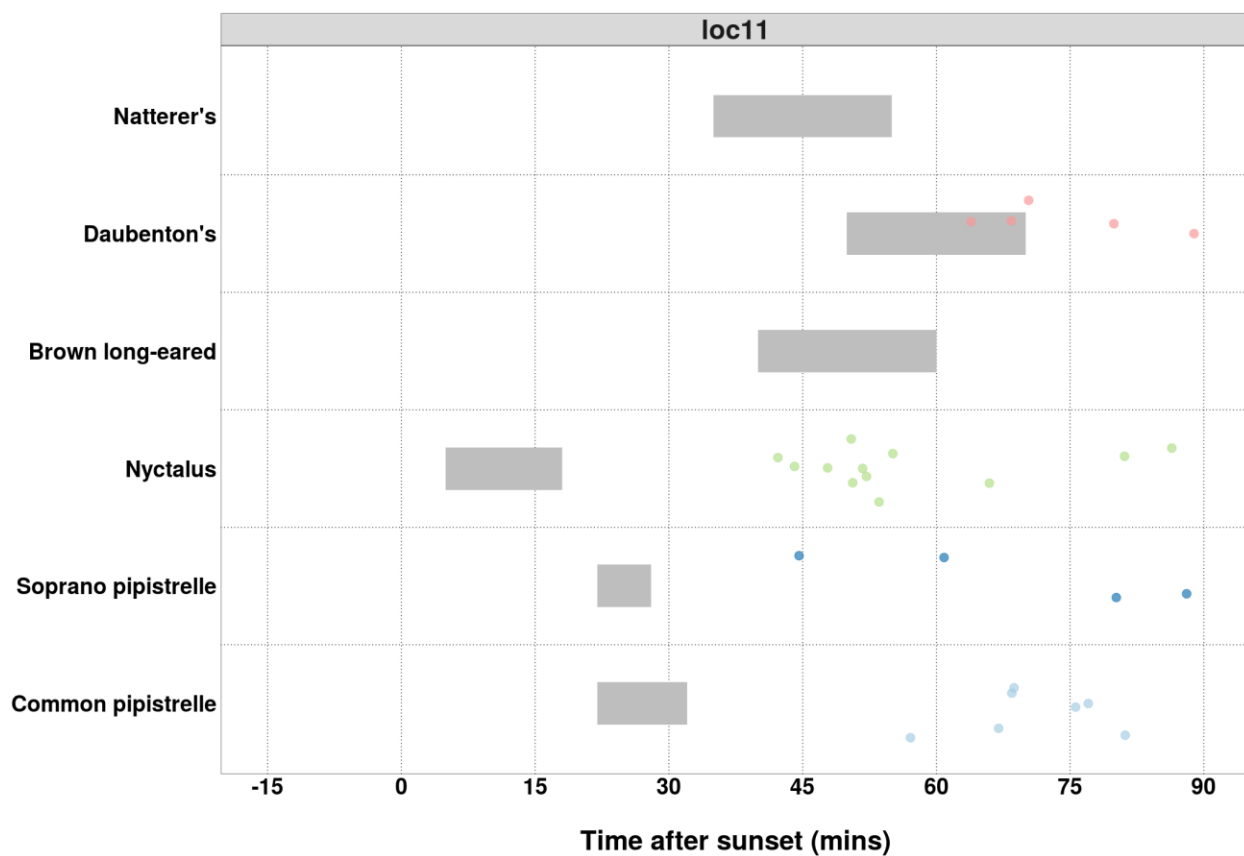
Table continues below

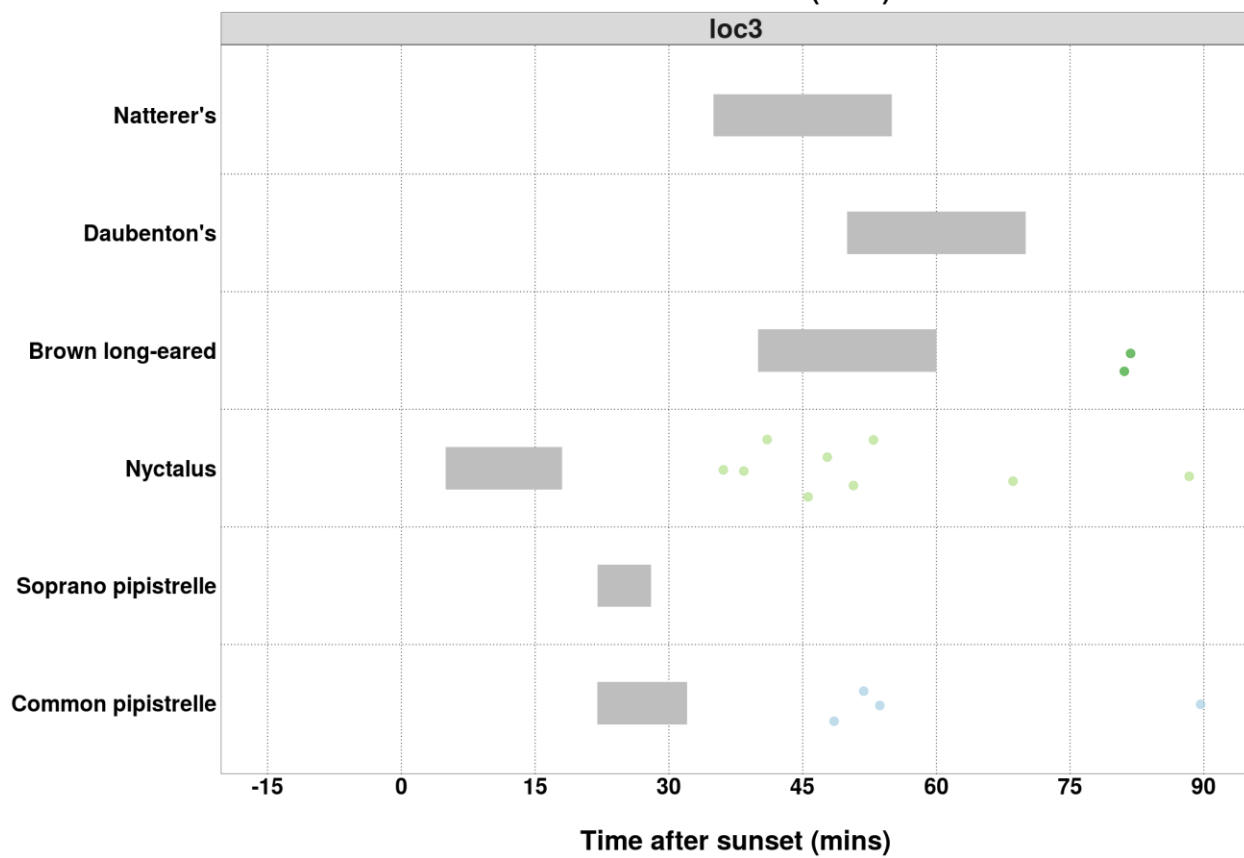
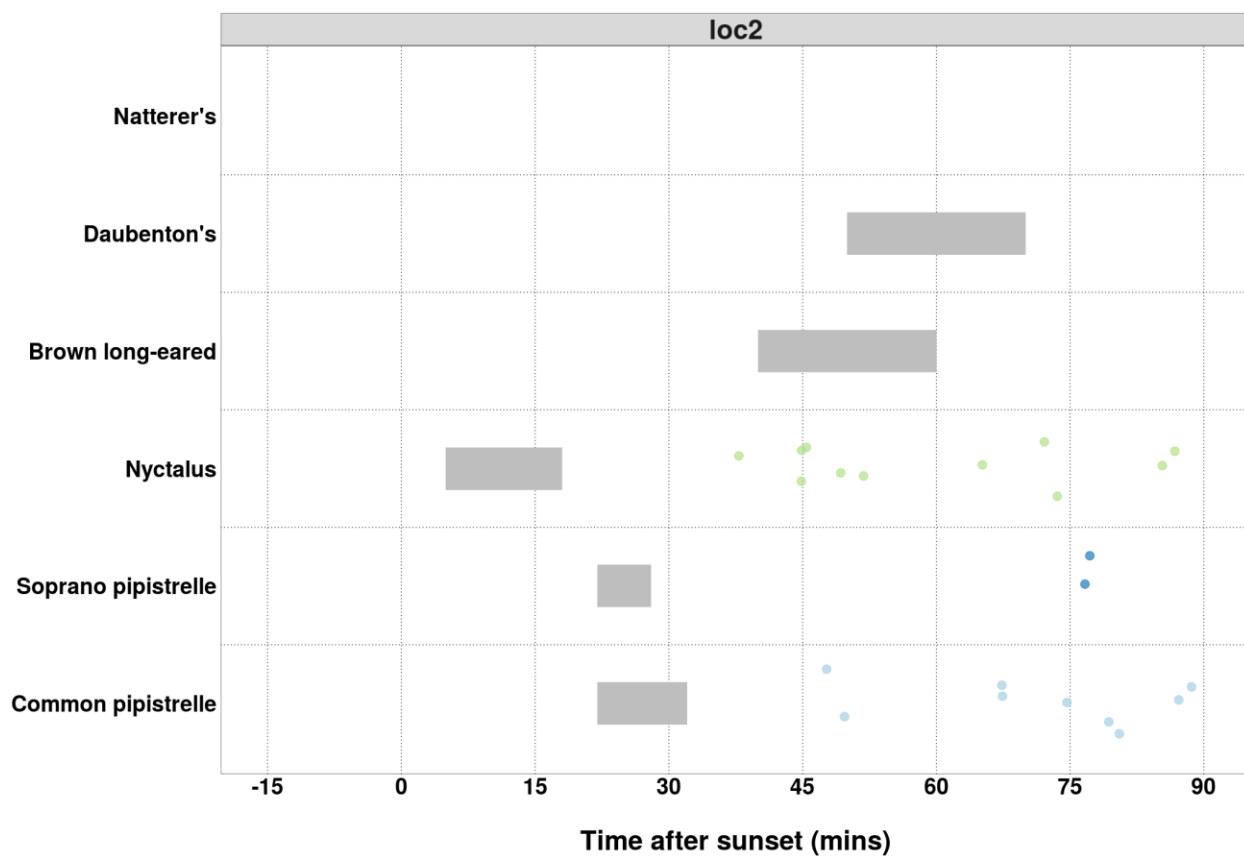
[illegible]

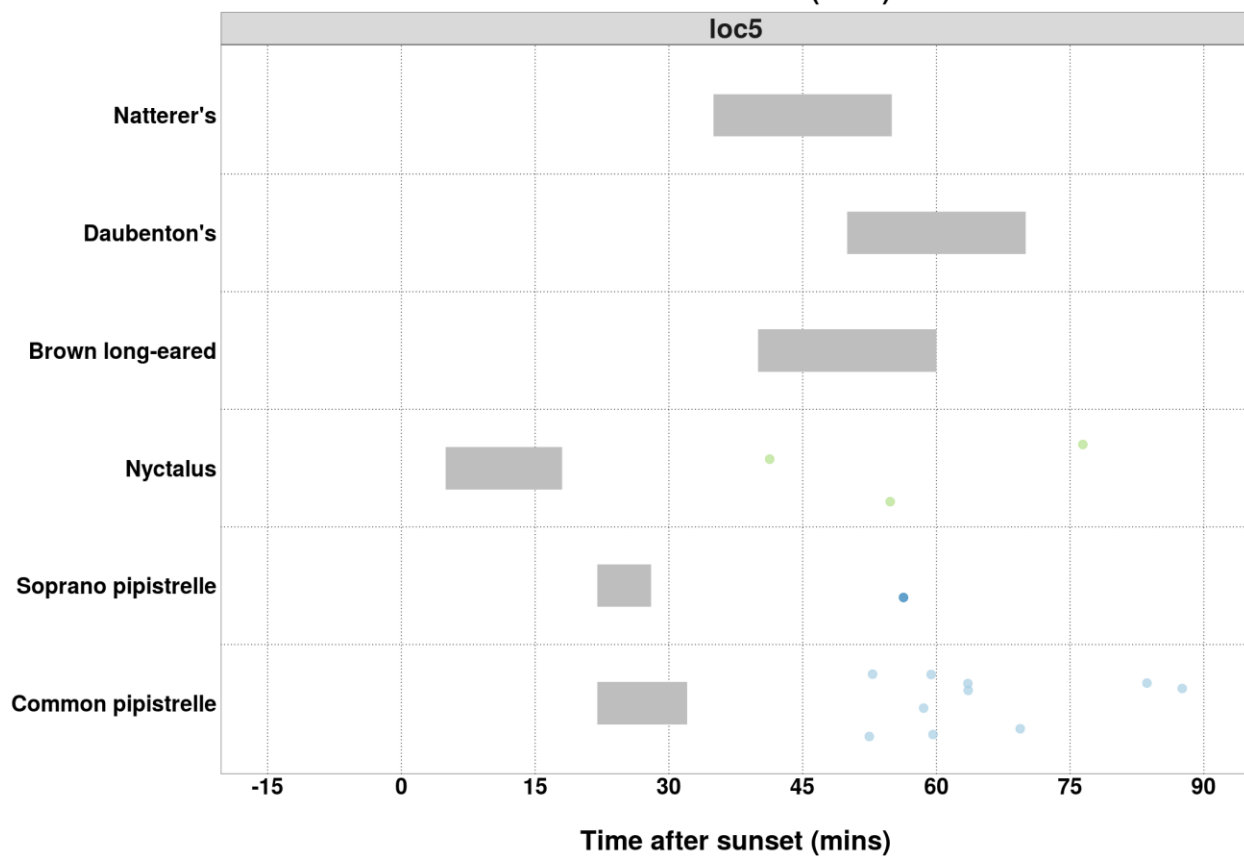
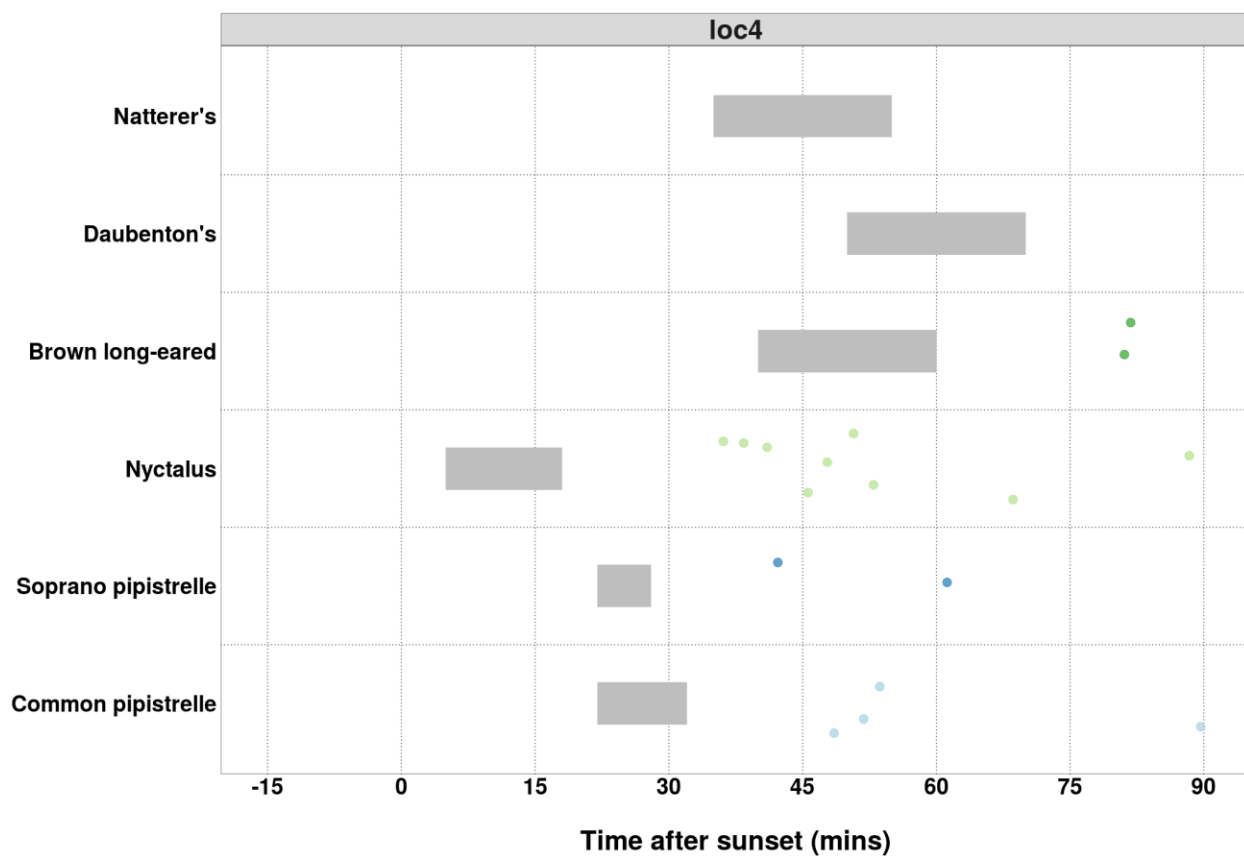
Bat Passes Potentially Indicating Close Proximity to a Roost (Russ 2012) - Figures

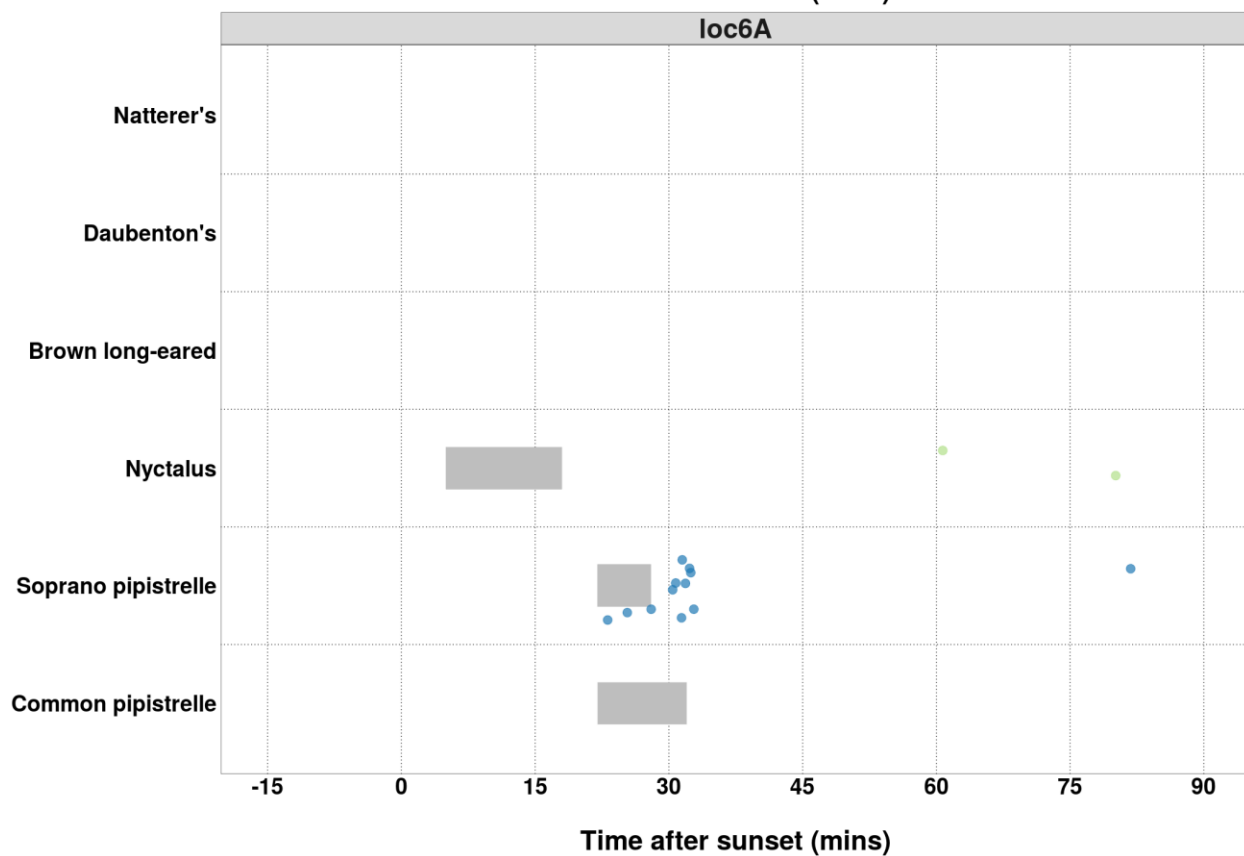
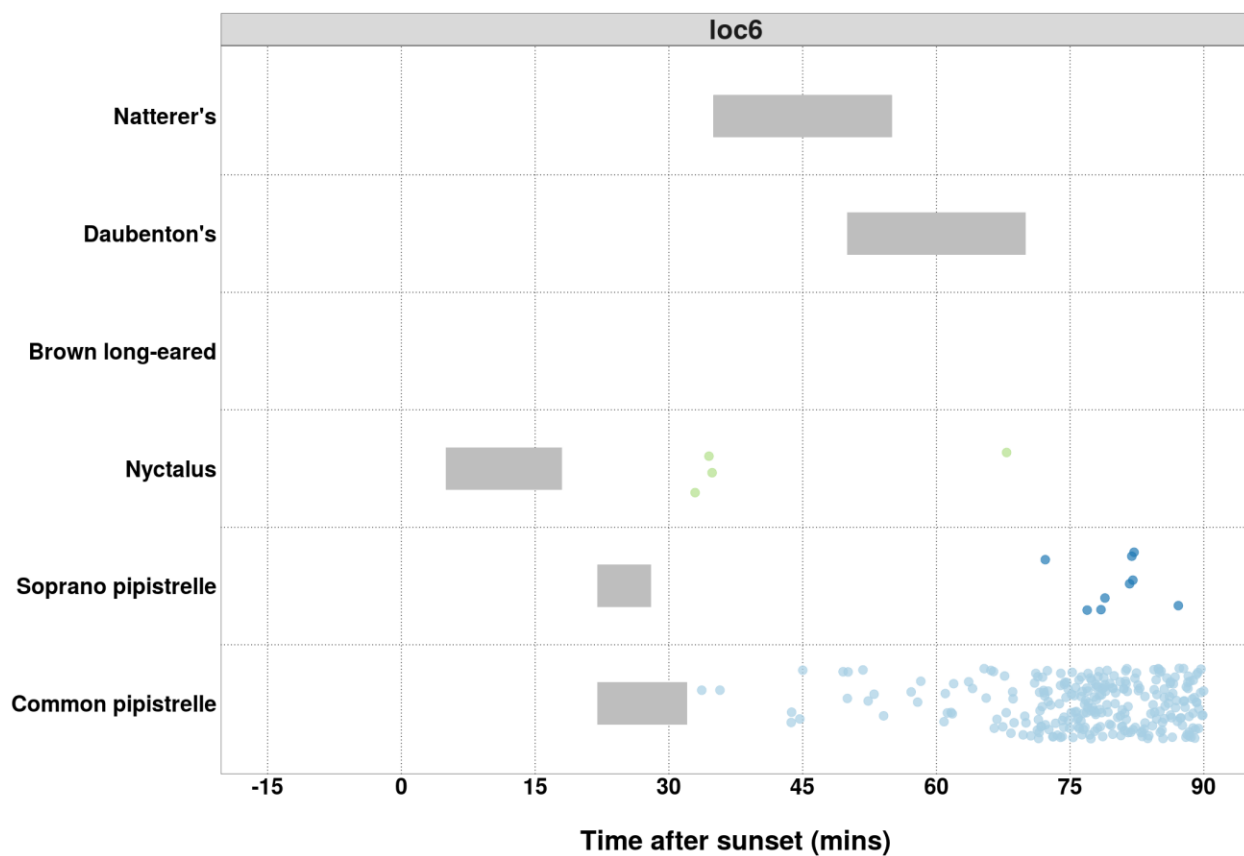
Figure 8. Time from 15 minutes before to 90 minutes after sunset. Species-specific emergence time ranges are shown as grey bars. Bat passes overlapping species-specific grey bars, or occurring earlier than this time range, may potentially indicate the presence of a nearby roost.

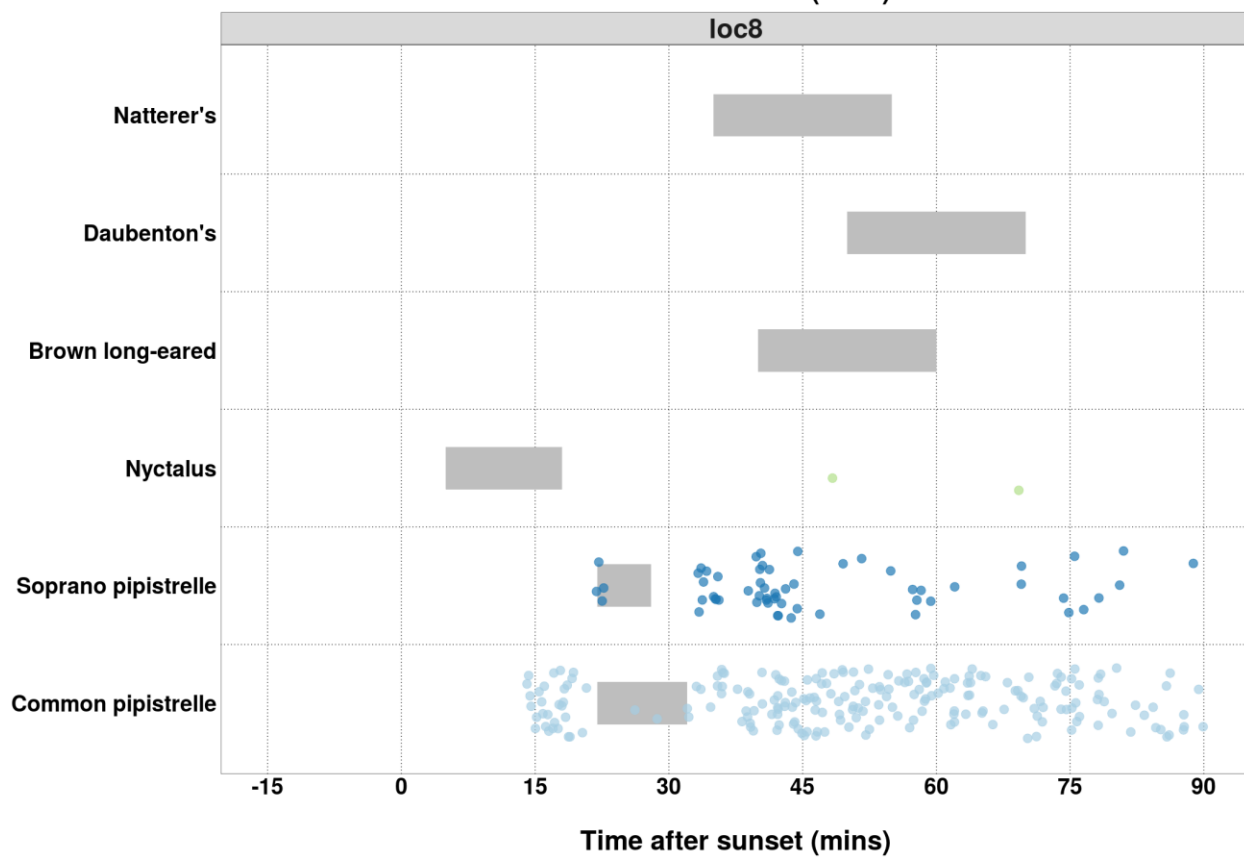
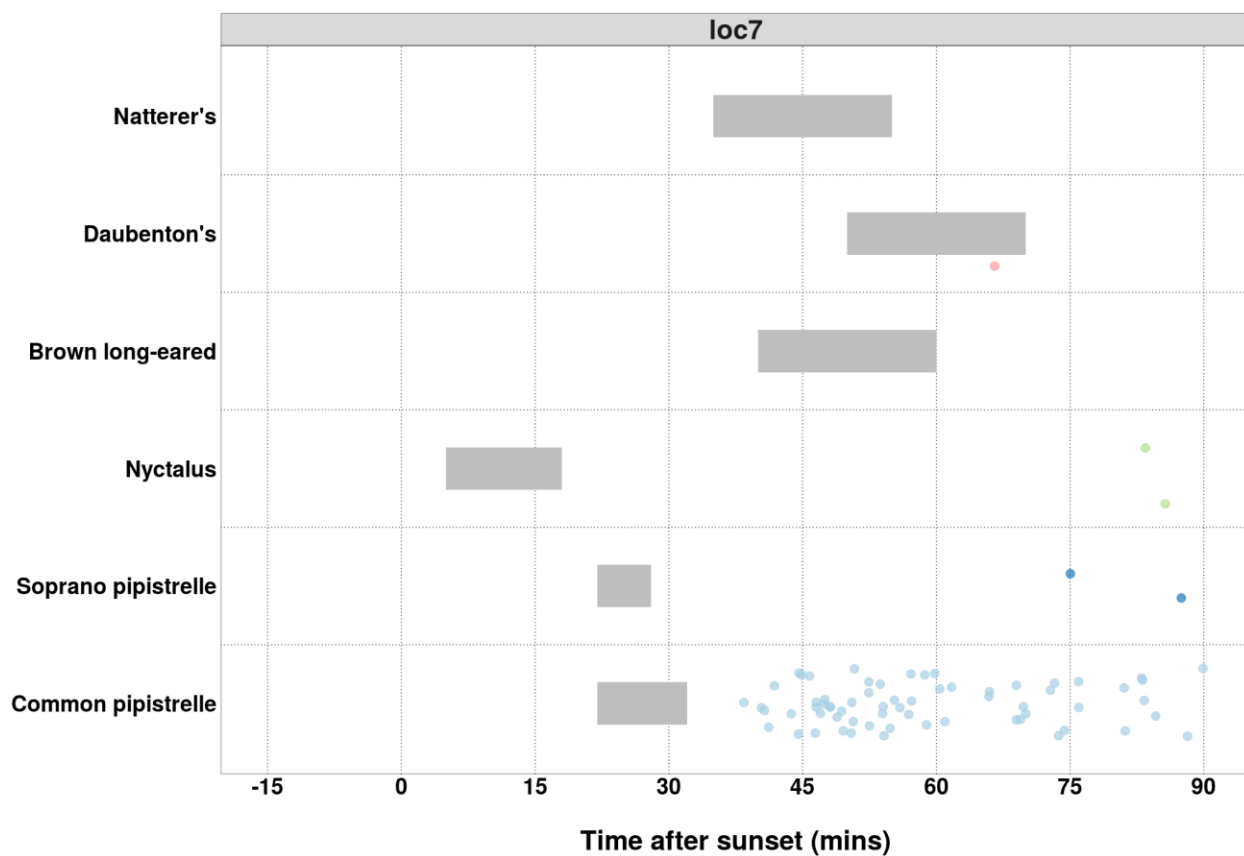


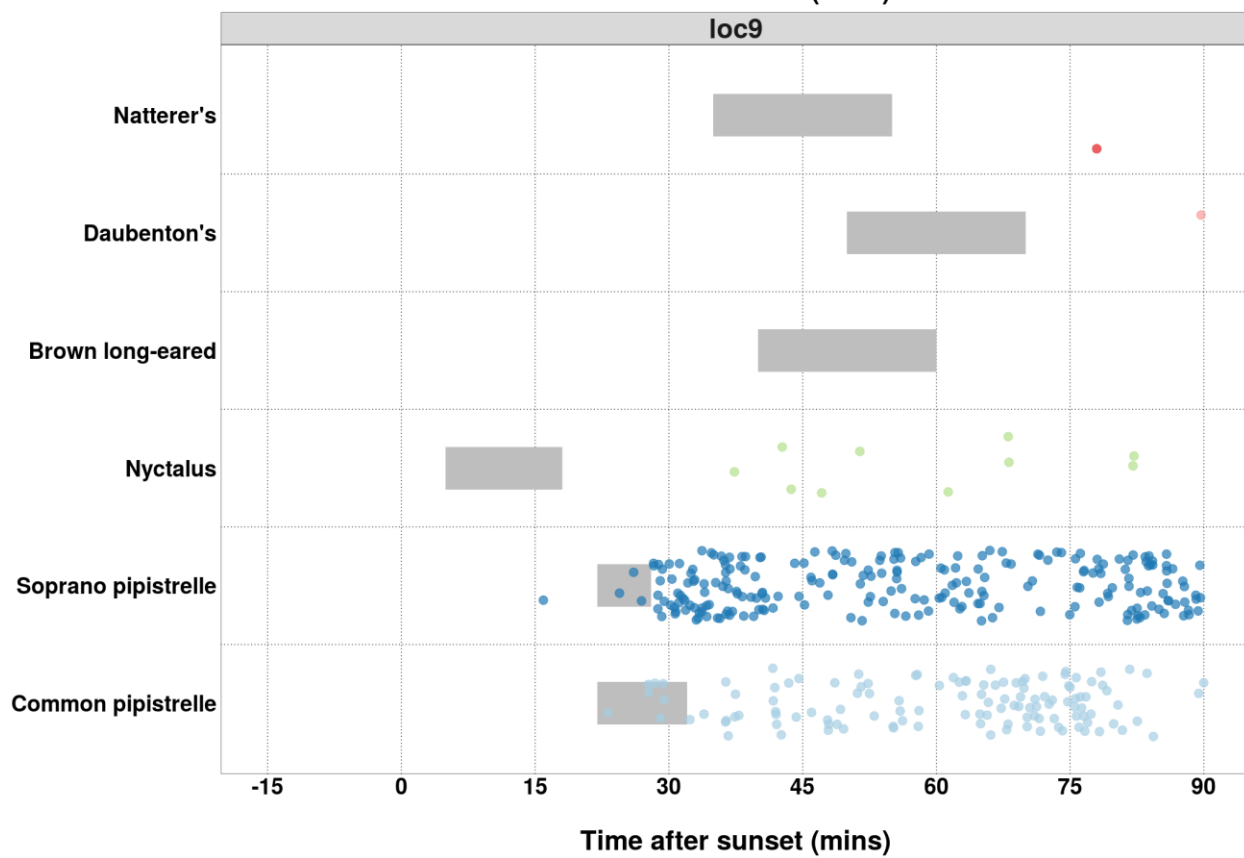
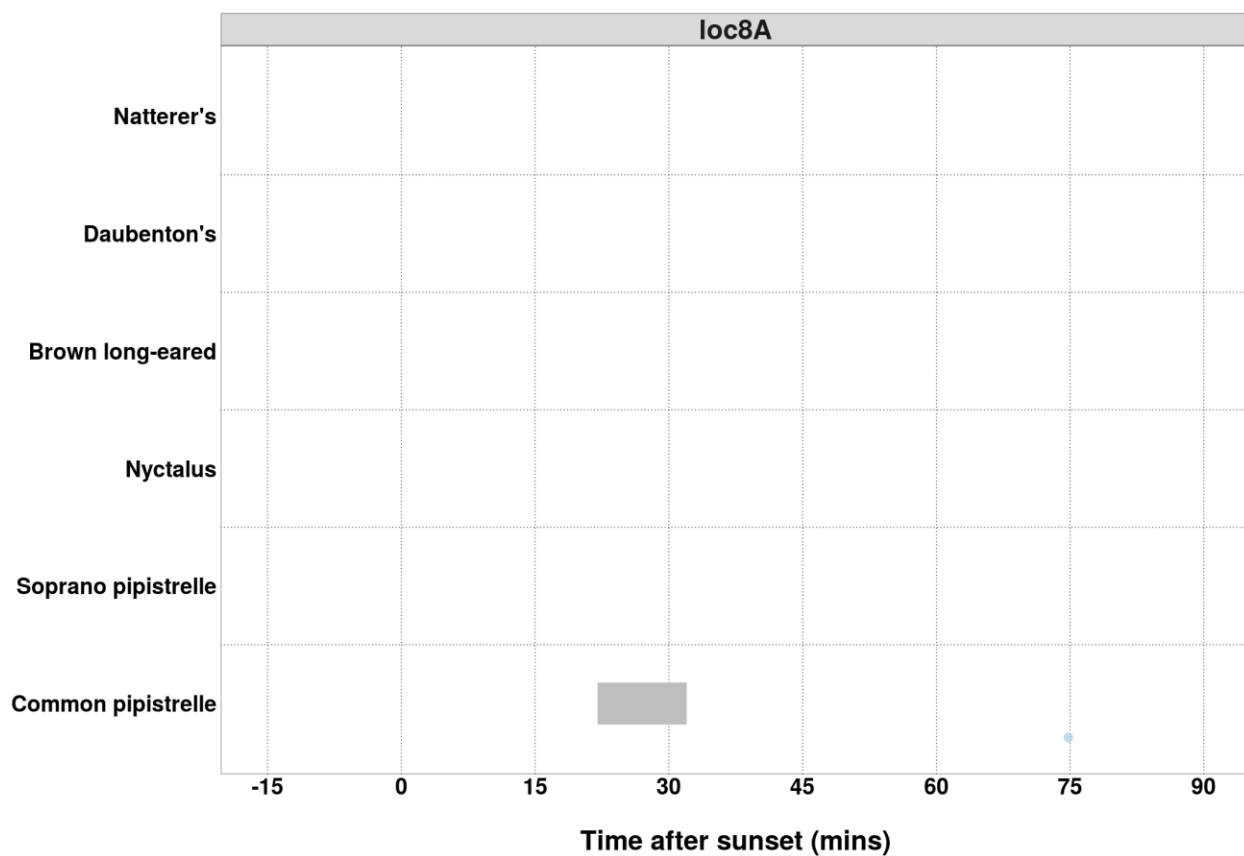


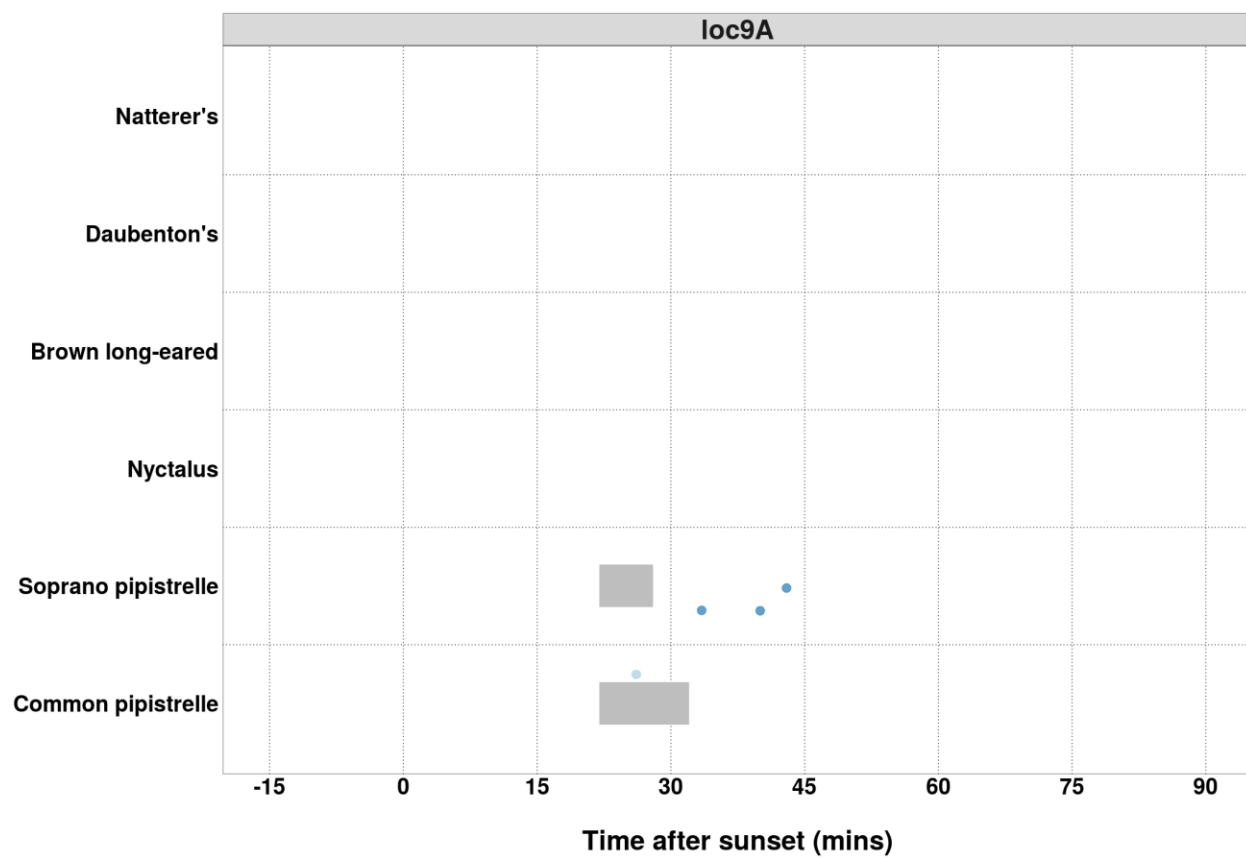












Counts of Bat Passes

All detectors

Table 14. The total number of passes recorded for each species across all of the detectors. The 'Total' percentage may not be exactly 100% due to rounding of the percentages per species.

Species	Passes (No.)	Percentage of total (%)
Common pipistrelle	3465	67.2
Soprano pipistrelle	1328	25.7
Nyctalus	188	3.6
Brown long-eared	46	0.9
Daubenton's	112	2.2
Natterer's	19	0.4
Total	5158	100.0

Counts of Bat Passes

Per Detector

Table 15. The number of passes recorded for each species at each detector.

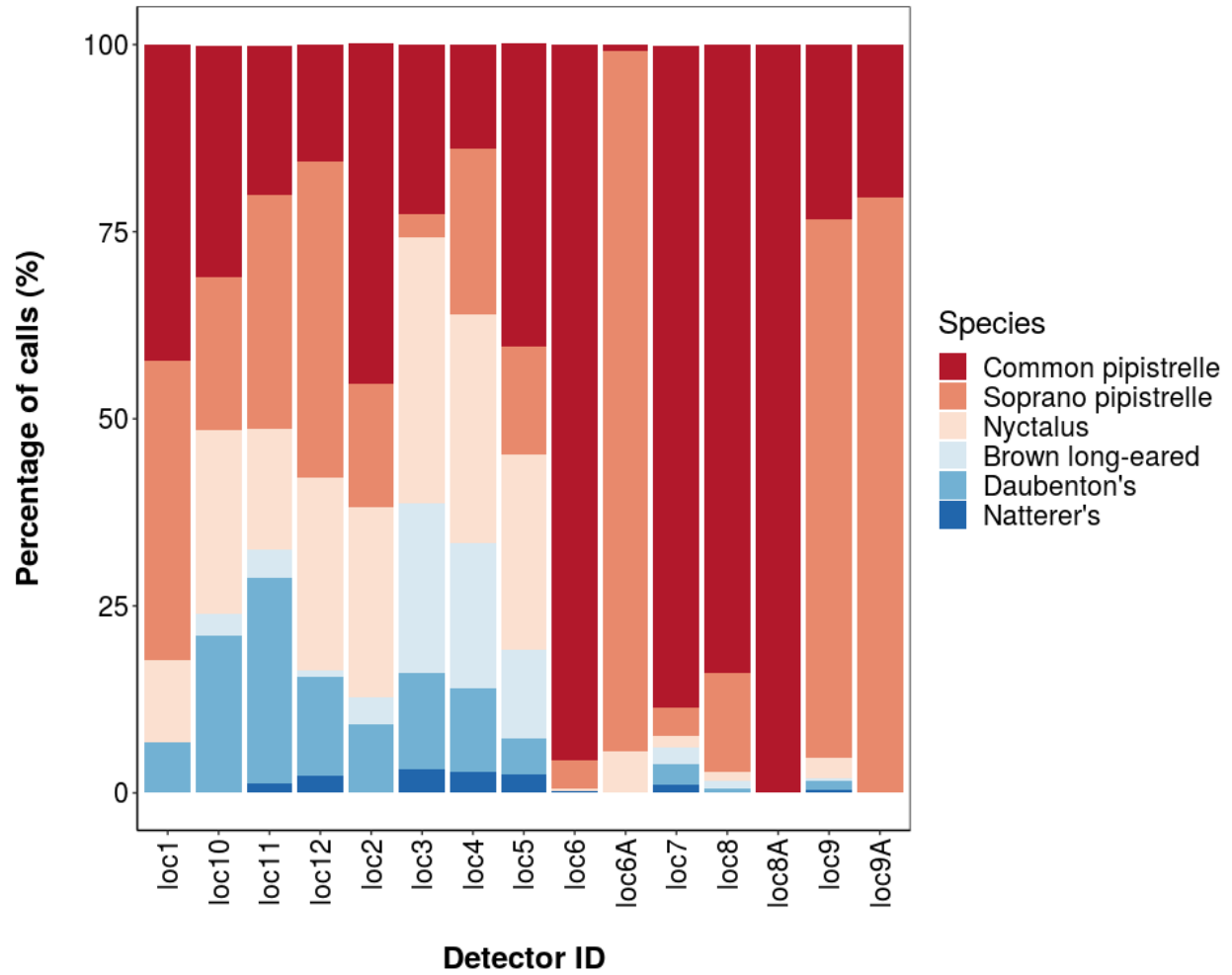
Species	Detector ID	Count (No)	Percentage by Detector (%)
Common pipistrelle	loc1	19	42.2
Common pipistrelle	loc10	44	31.0
Common pipistrelle	loc11	16	20.0
Common pipistrelle	loc12	20	15.6
Common pipistrelle	loc2	25	45.5
Common pipistrelle	loc3	7	22.6
Common pipistrelle	loc4	5	13.9
Common pipistrelle	loc5	17	40.5
Common pipistrelle	loc6	2242	95.6
Common pipistrelle	loc6A	1	0.9
Common pipistrelle	loc7	161	88.5
Common pipistrelle	loc8	625	83.9
Common pipistrelle	loc8A	1	100.0
Common pipistrelle	loc9	273	23.3
Common pipistrelle	loc9A	9	20.5
Soprano pipistrelle	loc1	18	40.0
Soprano pipistrelle	loc10	29	20.4
Soprano pipistrelle	loc11	25	31.2
Soprano pipistrelle	loc12	54	42.2
Soprano pipistrelle	loc2	9	16.4
Soprano pipistrelle	loc3	1	3.2
Soprano pipistrelle	loc4	8	22.2
Soprano pipistrelle	loc5	6	14.3
Soprano pipistrelle	loc6	91	3.9
Soprano pipistrelle	loc6A	101	93.5
Soprano pipistrelle	loc7	7	3.8
Soprano pipistrelle	loc8	99	13.3
Soprano pipistrelle	loc9	845	72.0
Soprano pipistrelle	loc9A	35	79.5

Nyctalus	loc1	5	11.1
Nyctalus	loc10	35	24.6
Nyctalus	loc11	13	16.2
Nyctalus	loc12	33	25.8
Nyctalus	loc2	14	25.5
Nyctalus	loc3	11	35.5
Nyctalus	loc4	11	30.6
Nyctalus	loc5	11	26.2
Nyctalus	loc6	5	0.2
Nyctalus	loc6A	6	5.6
Nyctalus	loc7	3	1.6
Nyctalus	loc8	9	1.2
Nyctalus	loc9	32	2.7
Brown long-eared	loc10	4	2.8
Brown long-eared	loc11	3	3.8
Brown long-eared	loc12	1	0.8
Brown long-eared	loc2	2	3.6
Brown long-eared	loc3	7	22.6
Brown long-eared	loc4	7	19.4
Brown long-eared	loc5	5	11.9
Brown long-eared	loc7	4	2.2
Brown long-eared	loc8	8	1.1
Brown long-eared	loc9	5	0.4
Daubenton's	loc1	3	6.7
Daubenton's	loc10	30	21.1
Daubenton's	loc11	22	27.5
Daubenton's	loc12	17	13.3
Daubenton's	loc2	5	9.1
Daubenton's	loc3	4	12.9
Daubenton's	loc4	4	11.1
Daubenton's	loc5	2	4.8
Daubenton's	loc6	3	0.1
Daubenton's	loc7	5	2.7
Daubenton's	loc8	3	0.4
Daubenton's	loc9	14	1.2
Natterer's	loc11	1	1.2

Natterer's	loc12	3	2.3
Natterer's	loc3	1	3.2
Natterer's	loc4	1	2.8
Natterer's	loc5	1	2.4
Natterer's	loc6	4	0.2
Natterer's	loc7	2	1.1
Natterer's	loc8	1	0.1
Natterer's	loc9	5	0.4

Species Composition

Figure 10. Percentage species composition of passes at each detector.



PART 2a: Presence Only

THE NEXT SECTION OF THE REPORT FEATURES THE RAW DATA SUPPLIED TO ECOBAT AND ONLY TAKES INTO ACCOUNT THE PRESENCE, AND NOT THE ABSENCE, OF EACH BAT SPECIES. FOR EACH NIGHT, THERE IS NO 'ZERO DATA' FOR WHEN SPECIES WERE NOT DETECTED.

Nightly Bat Pass Rate (Bat passes per hour)

Median Per Detector

Table 16. The median Nightly Pass Rate (bat passes per hour, per night) of each species. If NA, then no bat passes.

Bat pass rates are often highly variable between nights, with some nights having few or no passes and other nights having high activity. In these circumstances, the median is likely to be a more useful summary of the 'average' activity than is the mean. For further information see: *Lintott, P. R., & Mathews, F. (2018). Basic mathematical errors may make ecological assessments unreliable. Biodiversity and Conservation, 27(1), 265-267.*

<https://doi.org/10.1007/s10531-017-1418-5>

Species	Detector ID	Median Pass Rate
Common pipistrelle	loc1	0.2
Common pipistrelle	loc10	0.2
Common pipistrelle	loc11	0.1
Common pipistrelle	loc12	0.2
Common pipistrelle	loc2	0.1
Common pipistrelle	loc3	0.1
Common pipistrelle	loc4	0.1
Common pipistrelle	loc5	0.2
Common pipistrelle	loc6	2.8
Common pipistrelle	loc6A	0.1
Common pipistrelle	loc7	1.1
Common pipistrelle	loc8	1.5
Common pipistrelle	loc8A	0.1
Common pipistrelle	loc9	1.1
Common pipistrelle	loc9A	0.8
Soprano pipistrelle	loc1	0.2
Soprano pipistrelle	loc10	0.2
Soprano pipistrelle	loc11	0.2
Soprano pipistrelle	loc12	0.2
Soprano pipistrelle	loc2	0.1
Soprano pipistrelle	loc3	0.1
Soprano pipistrelle	loc4	0.1
Soprano pipistrelle	loc5	0.1

Soprano pipistrelle	loc6	2.2
Soprano pipistrelle	loc6A	0.3
Soprano pipistrelle	loc7	0.1
Soprano pipistrelle	loc8	0.8
Soprano pipistrelle	loc9	2.7
Soprano pipistrelle	loc9A	2.9
Nyctalus	loc1	0.1
Nyctalus	loc10	0.2
Nyctalus	loc11	0.2
Nyctalus	loc12	0.4
Nyctalus	loc2	0.4
Nyctalus	loc3	0.1
Nyctalus	loc4	0.1
Nyctalus	loc5	0.2
Nyctalus	loc6	0.6
Nyctalus	loc6A	0.2
Nyctalus	loc7	0.1
Nyctalus	loc8	0.1
Nyctalus	loc9	0.5
Brown long-eared	loc10	0.2
Brown long-eared	loc11	0.2
Brown long-eared	loc12	0.1
Brown long-eared	loc2	0.1
Brown long-eared	loc3	0.1
Brown long-eared	loc4	0.1
Brown long-eared	loc5	0.2
Brown long-eared	loc7	0.1
Brown long-eared	loc8	0.2
Brown long-eared	loc9	0.1
Daubenton's	loc1	0.1
Daubenton's	loc10	0.2
Daubenton's	loc11	0.2
Daubenton's	loc12	0.1
Daubenton's	loc2	0.1
Daubenton's	loc3	0.1
Daubenton's	loc4	0.1

Daubenton's	loc5	0.2
Daubenton's	loc6	0.2
Daubenton's	loc7	0.2
Daubenton's	loc8	0.1
Daubenton's	loc9	0.3
Natterer's	loc11	0.1
Natterer's	loc12	0.1
Natterer's	loc3	0.1
Natterer's	loc4	0.1
Natterer's	loc5	0.1
Natterer's	loc6	0.1
Natterer's	loc7	0.2
Natterer's	loc8	0.1
Natterer's	loc9	0.1

Nightly Bat Pass Rate (Bat passes per hour)

Mean per Detector

Table 17. The mean Nightly Pass Rate (bat passes per hour, per night) of each species at each detector. Values are given to 1 decimal place.

We recommend using the median values given above, for the reasons stated above, but provide the mean values in the table below.

Species	Detector ID	Mean Pass Rate
Common pipistrelle	loc1	0.3
Common pipistrelle	loc10	0.4
Common pipistrelle	loc11	0.2
Common pipistrelle	loc12	0.2
Common pipistrelle	loc2	0.3
Common pipistrelle	loc3	0.1
Common pipistrelle	loc4	0.2
Common pipistrelle	loc5	0.3
Common pipistrelle	loc6	17.2
Common pipistrelle	loc6A	0.1
Common pipistrelle	loc7	1.2
Common pipistrelle	loc8	4.9
Common pipistrelle	loc8A	0.1
Common pipistrelle	loc9	2.6
Common pipistrelle	loc9A	0.8
Soprano pipistrelle	loc1	0.2
Soprano pipistrelle	loc10	0.3
Soprano pipistrelle	loc11	0.2
Soprano pipistrelle	loc12	0.3
Soprano pipistrelle	loc2	0.1
Soprano pipistrelle	loc3	0.1
Soprano pipistrelle	loc4	0.1
Soprano pipistrelle	loc5	0.1
Soprano pipistrelle	loc6	2.9
Soprano pipistrelle	loc6A	1.0
Soprano pipistrelle	loc7	0.1

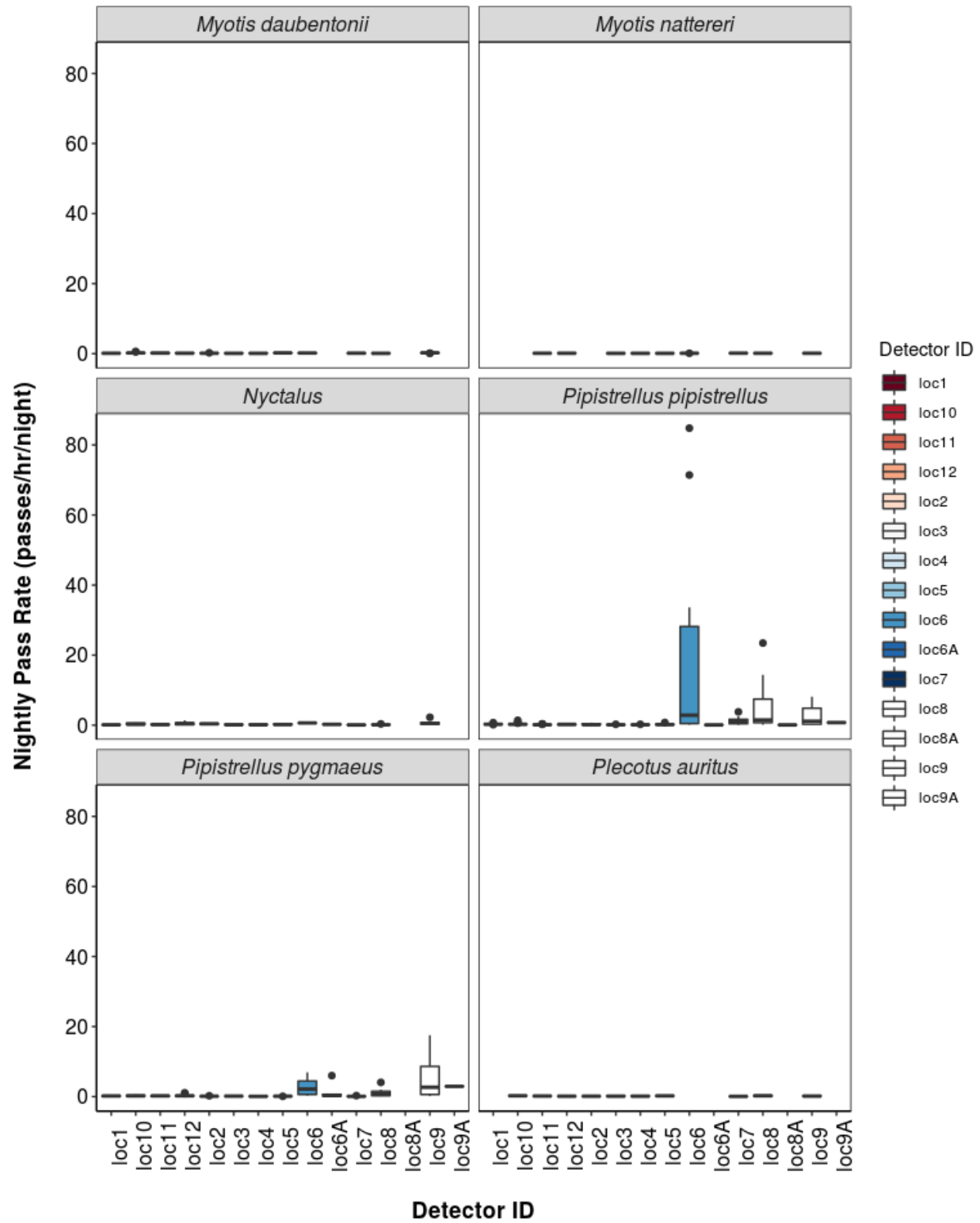
Soprano pipistrelle	loc8	1.1
Soprano pipistrelle	loc9	5.0
Soprano pipistrelle	loc9A	2.9
Nyctalus	loc1	0.1
Nyctalus	loc10	0.4
Nyctalus	loc11	0.2
Nyctalus	loc12	0.5
Nyctalus	loc2	0.3
Nyctalus	loc3	0.2
Nyctalus	loc4	0.2
Nyctalus	loc5	0.2
Nyctalus	loc6	0.6
Nyctalus	loc6A	0.2
Nyctalus	loc7	0.1
Nyctalus	loc8	0.2
Nyctalus	loc9	0.8
Brown long-eared	loc10	0.2
Brown long-eared	loc11	0.2
Brown long-eared	loc12	0.1
Brown long-eared	loc2	0.1
Brown long-eared	loc3	0.2
Brown long-eared	loc4	0.2
Brown long-eared	loc5	0.2
Brown long-eared	loc7	0.1
Brown long-eared	loc8	0.2
Brown long-eared	loc9	0.2
Daubenton's	loc1	0.1
Daubenton's	loc10	0.2
Daubenton's	loc11	0.2
Daubenton's	loc12	0.2
Daubenton's	loc2	0.2
Daubenton's	loc3	0.2
Daubenton's	loc4	0.2
Daubenton's	loc5	0.2
Daubenton's	loc6	0.2
Daubenton's	loc7	0.1

Daubenton's	loc8	0.1
Daubenton's	loc9	0.2
Natterer's	loc11	0.1
Natterer's	loc12	0.1
Natterer's	loc3	0.1
Natterer's	loc4	0.1
Natterer's	loc5	0.1
Natterer's	loc6	0.1
Natterer's	loc7	0.2
Natterer's	loc8	0.1
Natterer's	loc9	0.1

Nightly Bat Passes (Bat passes per hour)

Per Detector - Figures

Figure 11. Boxplots for the number of bat passes per hour each night, for each detector. The 'box' shows the interquartile range, which is where the middle 50% of the data lie. The line dividing the box is the median, the mid-point of the data. The 'whiskers' extend from the box and represent the ranges for the bottom 25% and the top 25% of the data values, excluding outliers. An outlier is any extreme value that lies further away from the box than 1.5 times the interquartile range. Outliers are shown as dots. Where very few passes are recorded it is not possible to produce the box, so the data are shown as a line.



SPLIT BY MONTH

Total Bat Passes per Detector, each Month

Per Detector

Table 18. The total number of bat passes of each species in each month at each detector. This table simply tells you how many bats of each species were recorded passing each detector during each month. These numbers are not standardised by the night length, or how many nights each detector was active for during each month.

Species	Detector ID	May	Jul	Aug	Sep	Oct
Common pipistrelle	loc1	11	2	6	0	0
Common pipistrelle	loc10	3	4	37	0	0
Common pipistrelle	loc11	7	4	5	0	0
Common pipistrelle	loc12	5	2	13	0	0
Common pipistrelle	loc2	4	4	17	0	0
Common pipistrelle	loc3	2	1	4	0	0
Common pipistrelle	loc4	0	1	4	0	0
Common pipistrelle	loc5	2	7	8	0	0
Common pipistrelle	loc6	16	712	1514	0	0
Common pipistrelle	loc6A	0	0	0	0	1
Common pipistrelle	loc7	6	38	115	0	2
Common pipistrelle	loc8	44	301	280	0	0
Common pipistrelle	loc8A	0	0	0	1	0
Common pipistrelle	loc9	31	76	166	0	0
Common pipistrelle	loc9A	0	0	0	9	0
Soprano pipistrelle	loc1	5	0	5	7	1
Soprano pipistrelle	loc10	2	3	19	4	1
Soprano pipistrelle	loc11	5	4	10	4	2
Soprano pipistrelle	loc12	2	3	12	24	13
Soprano pipistrelle	loc2	0	1	2	2	4
Soprano pipistrelle	loc3	1	0	0	0	0
Soprano pipistrelle	loc4	0	0	0	4	4
Soprano pipistrelle	loc5	2	0	3	0	1
Soprano pipistrelle	loc6	7	84	0	0	0

Soprano pipistrelle	loc6A	0	0	0	86	15
Soprano pipistrelle	loc7	3	0	0	2	2
Soprano pipistrelle	loc8	11	0	88	0	0
Soprano pipistrelle	loc9	13	48	784	0	0
Soprano pipistrelle	loc9A	0	0	0	35	0
Nyctalus	loc1	1	1	3	0	0
Nyctalus	loc10	0	6	29	0	0
Nyctalus	loc11	0	4	9	0	0
Nyctalus	loc12	1	18	14	0	0
Nyctalus	loc2	0	5	9	0	0
Nyctalus	loc3	0	2	9	0	0
Nyctalus	loc4	0	2	9	0	0
Nyctalus	loc5	1	3	7	0	0
Nyctalus	loc6	0	5	0	0	0
Nyctalus	loc6A	0	0	0	0	6
Nyctalus	loc7	1	0	0	2	0
Nyctalus	loc8	0	0	9	0	0
Nyctalus	loc9	2	20	10	0	0
Brown long-eared	loc10	0	0	4	0	0
Brown long-eared	loc11	0	0	3	0	0
Brown long-eared	loc12	0	1	0	0	0
Brown long-eared	loc2	0	0	2	0	0
Brown long-eared	loc3	0	1	6	0	0
Brown long-eared	loc4	0	1	6	0	0
Brown long-eared	loc5	0	0	5	0	0
Brown long-eared	loc7	0	0	0	4	0
Brown long-eared	loc8	0	0	8	0	0
Brown long-eared	loc9	1	1	3	0	0
Daubenton's	loc1	1	1	1	0	0
Daubenton's	loc10	4	4	22	0	0
Daubenton's	loc11	12	0	10	0	0
Daubenton's	loc12	5	4	8	0	0
Daubenton's	loc2	4	0	1	0	0
Daubenton's	loc3	0	0	4	0	0
Daubenton's	loc4	0	0	4	0	0
Daubenton's	loc5	0	0	2	0	0

Daubenton's	loc6	3	0	0	0	0
Daubenton's	loc7	0	0	0	1	4
Daubenton's	loc8	1	0	2	0	0
Daubenton's	loc9	14	0	0	0	0
Natterer's	loc11	0	1	0	0	0
Natterer's	loc12	3	0	0	0	0
Natterer's	loc3	0	0	1	0	0
Natterer's	loc4	0	0	1	0	0
Natterer's	loc5	0	0	1	0	0
Natterer's	loc6	4	0	0	0	0
Natterer's	loc7	0	0	0	0	2
Natterer's	loc8	1	0	0	0	0
Natterer's	loc9	4	0	1	0	0

Survey Effort

Table 19. The number of survey nights per month per detector.

Month	Detector ID	No. of Survey Nights
May	loc1	5
May	loc10	6
May	loc11	9
May	loc12	9
May	loc2	5
May	loc3	3
May	loc5	3
May	loc6	7
May	loc7	3
May	loc8	8
May	loc9	11
Jul	loc1	1
Jul	loc10	2
Jul	loc11	2
Jul	loc12	2
Jul	loc2	2
Jul	loc3	2
Jul	loc4	2
Jul	loc5	2
Jul	loc6	2
Jul	loc7	2
Jul	loc8	2
Jul	loc9	2
Aug	loc1	4
Aug	loc10	12
Aug	loc11	9
Aug	loc12	10
Aug	loc2	8
Aug	loc3	7
Aug	loc4	7

Aug	loc5	7
Aug	loc6	10
Aug	loc7	9
Aug	loc8	9
Aug	loc9	12
Sep	loc1	4
Sep	loc10	2
Sep	loc11	3
Sep	loc12	4
Sep	loc2	2
Sep	loc4	3
Sep	loc6A	5
Sep	loc7	5
Sep	loc8A	1
Sep	loc9A	1
Oct	loc1	1
Oct	loc10	1
Oct	loc11	2
Oct	loc12	4
Oct	loc2	2
Oct	loc4	3
Oct	loc5	1
Oct	loc6A	3
Oct	loc7	3

Nightly Bat Pass Rate for each Month

Median Per Detector

Table 20. The median Nightly Pass Rate (bat passes per hour, per night) of each species throughout each month. If NA, then no bat passes.

Bat pass rates are often highly variable between nights, with some nights having few or no passes and other nights having high activity. In these circumstances, the median is likely to be a more useful summary of the 'average' activity than is the mean. For further information see: *Lintott, P. R., & Mathews, F. (2018). Basic mathematical errors may make ecological assessments unreliable. Biodiversity and Conservation, 27(1), 265-267.*

<https://doi.org/10.1007/s10531-017-1418-5>

Species	Detector ID	May	Jul	Aug	Sep	Oct
Common pipistrelle	loc1	0.4	0.2	0.2	NA	NA
Common pipistrelle	loc10	0.1	0.2	0.2	NA	NA
Common pipistrelle	loc11	0.1	0.3	0.1	NA	NA
Common pipistrelle	loc12	0.1	0.2	0.2	NA	NA
Common pipistrelle	loc2	0.1	0.5	0.3	NA	NA
Common pipistrelle	loc3	0.1	0.1	0.1	NA	NA
Common pipistrelle	loc4	NA	0.1	0.1	NA	NA
Common pipistrelle	loc5	0.1	0.4	0.2	NA	NA
Common pipistrelle	loc6	0.4	44.5	8.2	NA	NA
Common pipistrelle	loc6A	NA	NA	NA	NA	0.1
Common pipistrelle	loc7	0.3	2.4	1.4	NA	0.1
Common pipistrelle	loc8	0.8	18.9	1.4	NA	NA
Common pipistrelle	loc8A	NA	NA	NA	0.1	NA
Common pipistrelle	loc9	0.3	4.8	7.5	NA	NA
Common pipistrelle	loc9A	NA	NA	NA	0.8	NA
Soprano pipistrelle	loc1	0.4	NA	0.2	0.1	0.1
Soprano pipistrelle	loc10	0.3	0.4	0.2	0.2	0.1
Soprano pipistrelle	loc11	0.4	0.2	0.3	0.1	0.1
Soprano pipistrelle	loc12	0.1	0.4	0.1	0.4	0.3
Soprano pipistrelle	loc2	NA	0.1	0.1	0.1	0.2
Soprano pipistrelle	loc3	0.1	NA	NA	NA	NA
Soprano pipistrelle	loc4	NA	NA	NA	0.1	0.1
Soprano pipistrelle	loc5	0.1	NA	0.1	NA	0.1

Soprano pipistrelle	loc6	0.5	5.3	NA	NA	NA
Soprano pipistrelle	loc6A	NA	NA	NA	0.2	0.4
Soprano pipistrelle	loc7	0.2	NA	NA	0.1	0.1
Soprano pipistrelle	loc8	0.2	NA	1.2	NA	NA
Soprano pipistrelle	loc9	0.3	3.0	6.4	NA	NA
Soprano pipistrelle	loc9A	NA	NA	NA	2.9	NA
Nyctalus	loc1	0.1	0.1	0.1	NA	NA
Nyctalus	loc10	NA	0.4	0.2	NA	NA
Nyctalus	loc11	NA	0.3	0.2	NA	NA
Nyctalus	loc12	0.1	1.1	0.4	NA	NA
Nyctalus	loc2	NA	0.3	0.4	NA	NA
Nyctalus	loc3	NA	0.1	0.2	NA	NA
Nyctalus	loc4	NA	0.1	0.2	NA	NA
Nyctalus	loc5	0.1	0.4	0.2	NA	NA
Nyctalus	loc6	NA	0.6	NA	NA	NA
Nyctalus	loc6A	NA	NA	NA	NA	0.2
Nyctalus	loc7	0.1	NA	NA	0.1	NA
Nyctalus	loc8	NA	NA	0.1	NA	NA
Nyctalus	loc9	0.3	1.2	0.6	NA	NA
Brown long-eared	loc10	NA	NA	0.2	NA	NA
Brown long-eared	loc11	NA	NA	0.2	NA	NA
Brown long-eared	loc12	NA	0.1	NA	NA	NA
Brown long-eared	loc2	NA	NA	0.1	NA	NA
Brown long-eared	loc3	NA	0.1	0.2	NA	NA
Brown long-eared	loc4	NA	0.1	0.2	NA	NA
Brown long-eared	loc5	NA	NA	0.2	NA	NA
Brown long-eared	loc7	NA	NA	NA	0.1	NA
Brown long-eared	loc8	NA	NA	0.2	NA	NA
Brown long-eared	loc9	0.1	0.1	0.4	NA	NA
Daubenton's	loc1	0.1	0.1	0.1	NA	NA
Daubenton's	loc10	0.1	0.2	0.2	NA	NA
Daubenton's	loc11	0.2	NA	0.2	NA	NA
Daubenton's	loc12	0.1	0.2	0.2	NA	NA
Daubenton's	loc2	0.1	NA	0.1	NA	NA
Daubenton's	loc3	NA	NA	0.1	NA	NA
Daubenton's	loc4	NA	NA	0.1	NA	NA

Daubenton's	loc5	NA	NA	0.2	NA	NA
Daubenton's	loc6	0.2	NA	NA	NA	NA
Daubenton's	loc7	NA	NA	NA	0.1	0.2
Daubenton's	loc8	0.1	NA	0.1	NA	NA
Daubenton's	loc9	0.3	NA	NA	NA	NA
Natterer's	loc11	NA	0.1	NA	NA	NA
Natterer's	loc12	0.1	NA	NA	NA	NA
Natterer's	loc3	NA	NA	0.1	NA	NA
Natterer's	loc4	NA	NA	0.1	NA	NA
Natterer's	loc5	NA	NA	0.1	NA	NA
Natterer's	loc6	0.1	NA	NA	NA	NA
Natterer's	loc7	NA	NA	NA	NA	0.2
Natterer's	loc8	0.1	NA	NA	NA	NA
Natterer's	loc9	0.1	NA	0.1	NA	NA

Nightly Bat Pass Rate for each Month

Mean per Detector

Table 21: The mean Nightly Pass Rate (bat passes per hour, per night) of each species throughout each month. Values are given to 1 decimal place.

We recommend using the median values given above, for the reasons stated above, but provide the mean values in the table below.

Species	Detector ID	May	Jul	Aug	Sep	Oct
Common pipistrelle	loc1	0.4	0.2	0.2	NA	NA
Common pipistrelle	loc10	0.1	0.2	0.4	NA	NA
Common pipistrelle	loc11	0.2	0.3	0.1	NA	NA
Common pipistrelle	loc12	0.2	0.2	0.2	NA	NA
Common pipistrelle	loc2	0.1	0.5	0.3	NA	NA
Common pipistrelle	loc3	0.1	0.1	0.2	NA	NA
Common pipistrelle	loc4	NA	0.1	0.2	NA	NA
Common pipistrelle	loc5	0.1	0.4	0.2	NA	NA
Common pipistrelle	loc6	0.6	44.5	18.3	NA	NA
Common pipistrelle	loc6A	NA	NA	NA	NA	0.1
Common pipistrelle	loc7	0.3	2.4	1.5	NA	0.1
Common pipistrelle	loc8	1.2	18.9	3.7	NA	NA
Common pipistrelle	loc8A	NA	NA	NA	0.1	NA
Common pipistrelle	loc9	0.5	4.8	6.8	NA	NA
Common pipistrelle	loc9A	NA	NA	NA	0.8	NA
Soprano pipistrelle	loc1	0.4	NA	0.2	0.1	0.1
Soprano pipistrelle	loc10	0.3	0.4	0.3	0.2	0.1
Soprano pipistrelle	loc11	0.4	0.2	0.3	0.1	0.1
Soprano pipistrelle	loc12	0.1	0.4	0.3	0.5	0.3
Soprano pipistrelle	loc2	NA	0.1	0.1	0.1	0.2
Soprano pipistrelle	loc3	0.1	NA	NA	NA	NA
Soprano pipistrelle	loc4	NA	NA	NA	0.1	0.1
Soprano pipistrelle	loc5	0.1	NA	0.1	NA	0.1
Soprano pipistrelle	loc6	0.5	5.3	NA	NA	NA
Soprano pipistrelle	loc6A	NA	NA	NA	1.4	0.4
Soprano pipistrelle	loc7	0.2	NA	NA	0.1	0.1

Soprano pipistrelle	loc8	0.4	NA	1.5	NA	NA
Soprano pipistrelle	loc9	0.3	3.0	7.8	NA	NA
Soprano pipistrelle	loc9A	NA	NA	NA	2.9	NA
Nyctalus	loc1	0.1	0.1	0.1	NA	NA
Nyctalus	loc10	NA	0.4	0.4	NA	NA
Nyctalus	loc11	NA	0.3	0.2	NA	NA
Nyctalus	loc12	0.1	1.1	0.3	NA	NA
Nyctalus	loc2	NA	0.3	0.4	NA	NA
Nyctalus	loc3	NA	0.1	0.2	NA	NA
Nyctalus	loc4	NA	0.1	0.2	NA	NA
Nyctalus	loc5	0.1	0.4	0.2	NA	NA
Nyctalus	loc6	NA	0.6	NA	NA	NA
Nyctalus	loc6A	NA	NA	NA	NA	0.2
Nyctalus	loc7	0.1	NA	NA	0.1	NA
Nyctalus	loc8	NA	NA	0.2	NA	NA
Nyctalus	loc9	0.3	1.2	0.6	NA	NA
Brown long-eared	loc10	NA	NA	0.2	NA	NA
Brown long-eared	loc11	NA	NA	0.2	NA	NA
Brown long-eared	loc12	NA	0.1	NA	NA	NA
Brown long-eared	loc2	NA	NA	0.1	NA	NA
Brown long-eared	loc3	NA	0.1	0.2	NA	NA
Brown long-eared	loc4	NA	0.1	0.2	NA	NA
Brown long-eared	loc5	NA	NA	0.2	NA	NA
Brown long-eared	loc7	NA	NA	NA	0.1	NA
Brown long-eared	loc8	NA	NA	0.2	NA	NA
Brown long-eared	loc9	0.1	0.1	0.4	NA	NA
Daubenton's	loc1	0.1	0.1	0.1	NA	NA
Daubenton's	loc10	0.1	0.2	0.3	NA	NA
Daubenton's	loc11	0.2	NA	0.2	NA	NA
Daubenton's	loc12	0.1	0.2	0.2	NA	NA
Daubenton's	loc2	0.2	NA	0.1	NA	NA
Daubenton's	loc3	NA	NA	0.2	NA	NA
Daubenton's	loc4	NA	NA	0.2	NA	NA
Daubenton's	loc5	NA	NA	0.2	NA	NA
Daubenton's	loc6	0.2	NA	NA	NA	NA
Daubenton's	loc7	NA	NA	NA	0.1	0.2

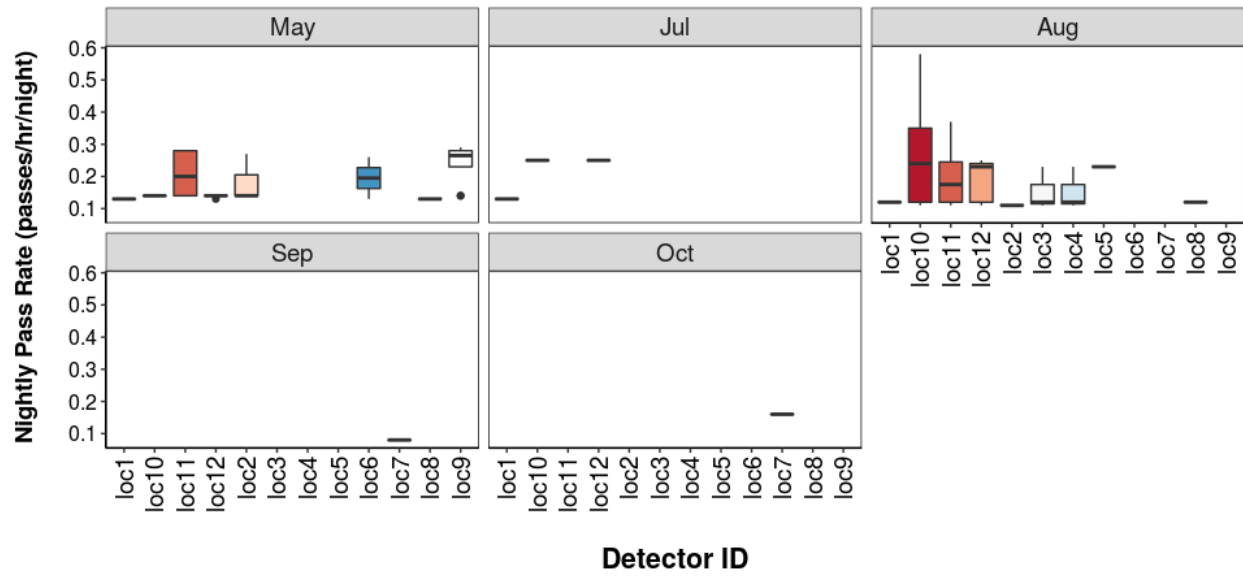
Daubenton's	loc8	0.1	NA	0.1	NA	NA
Daubenton's	loc9	0.2	NA	NA	NA	NA
Natterer's	loc11	NA	0.1	NA	NA	NA
Natterer's	loc12	0.1	NA	NA	NA	NA
Natterer's	loc3	NA	NA	0.1	NA	NA
Natterer's	loc4	NA	NA	0.1	NA	NA
Natterer's	loc5	NA	NA	0.1	NA	NA
Natterer's	loc6	0.1	NA	NA	NA	NA
Natterer's	loc7	NA	NA	NA	NA	0.2
Natterer's	loc8	0.1	NA	NA	NA	NA
Natterer's	loc9	0.1	NA	0.1	NA	NA

Nightly Bat Pass Rate for each Month

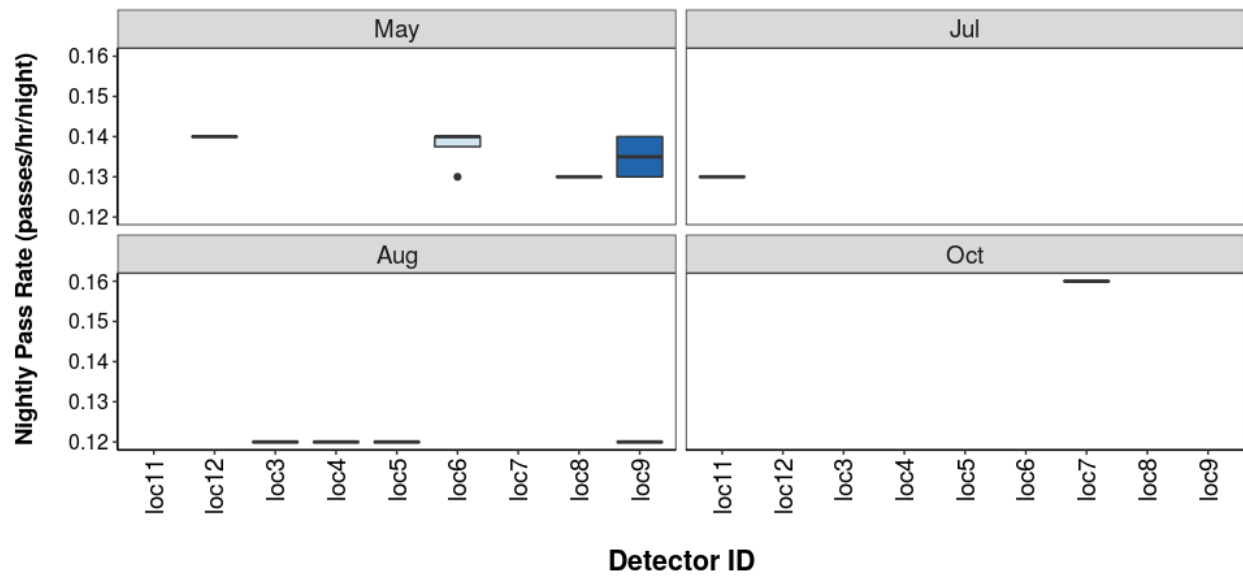
Per Detector - Figures

Figure 12. Figures show boxplots for the number of bat passes per hour by detector, for each month. The 'box' shows the interquartile range, which is where the middle 50% of the data lie. The line dividing the box is the median, the mid-point of the data. The 'whiskers' extend from the box and represent the ranges for the bottom 25% and the top 25% of the data values, excluding outliers. An outlier is any extreme value that lies further away from the box than 1.5 times the interquartile range. Outliers are shown as dots. Where very few passes are recorded it is not possible to produce the box, so the data are shown as a line.

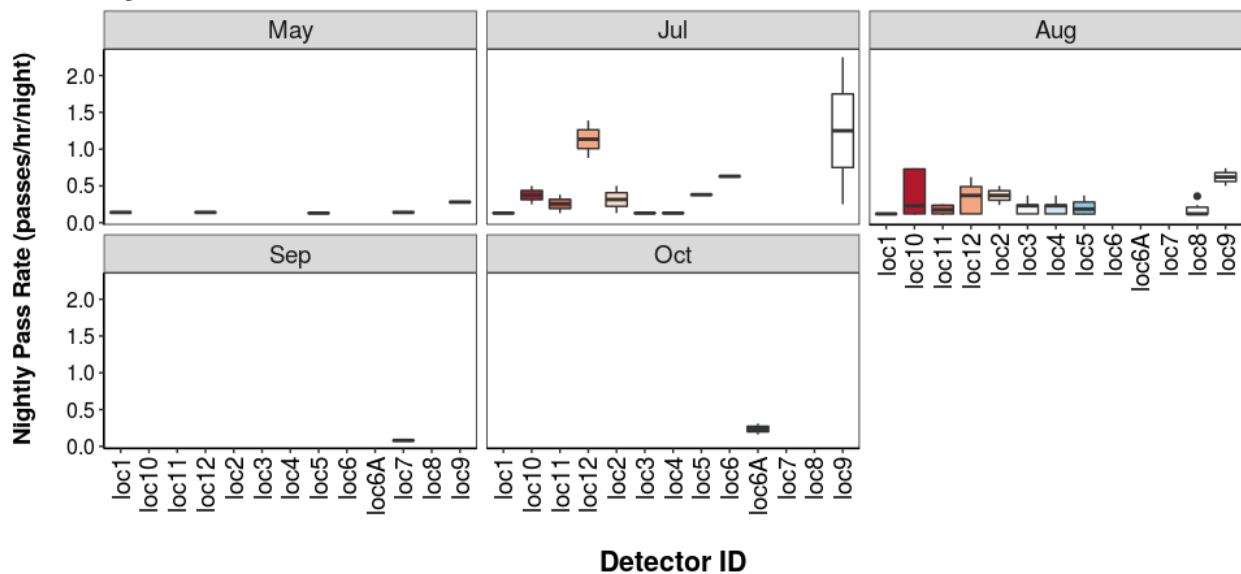
Daubenton's



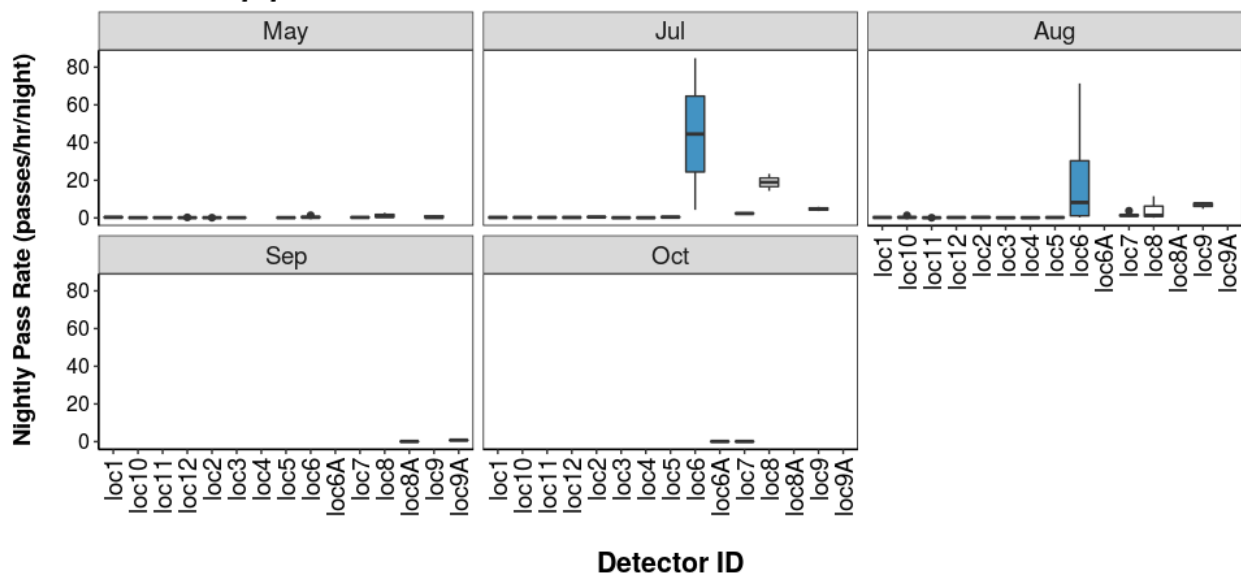
Natterer's



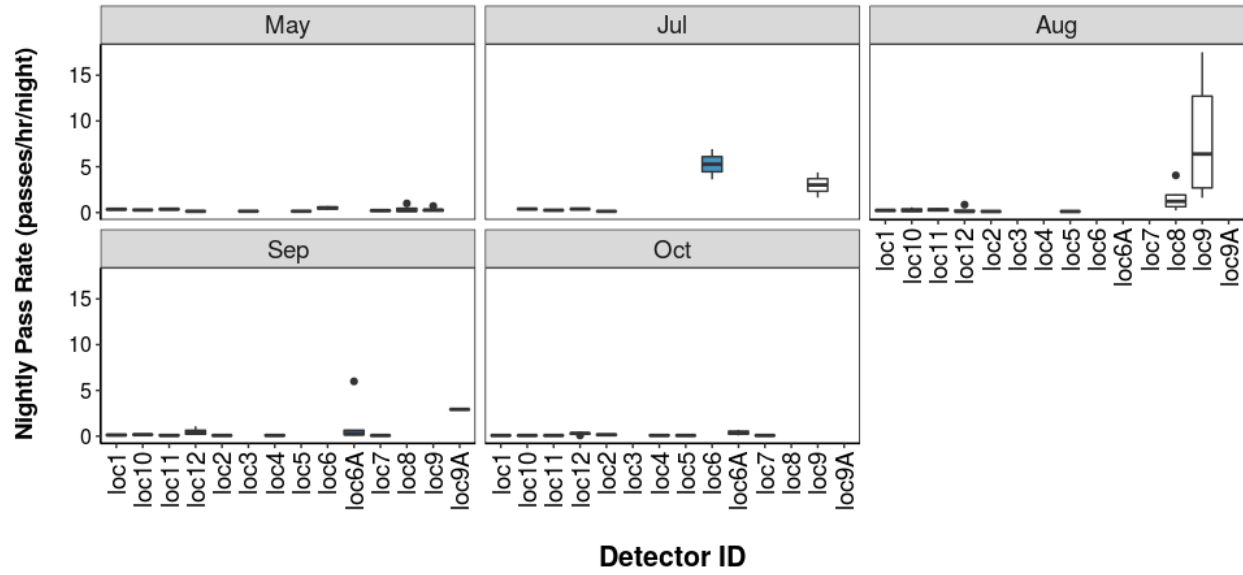
Nyctalus



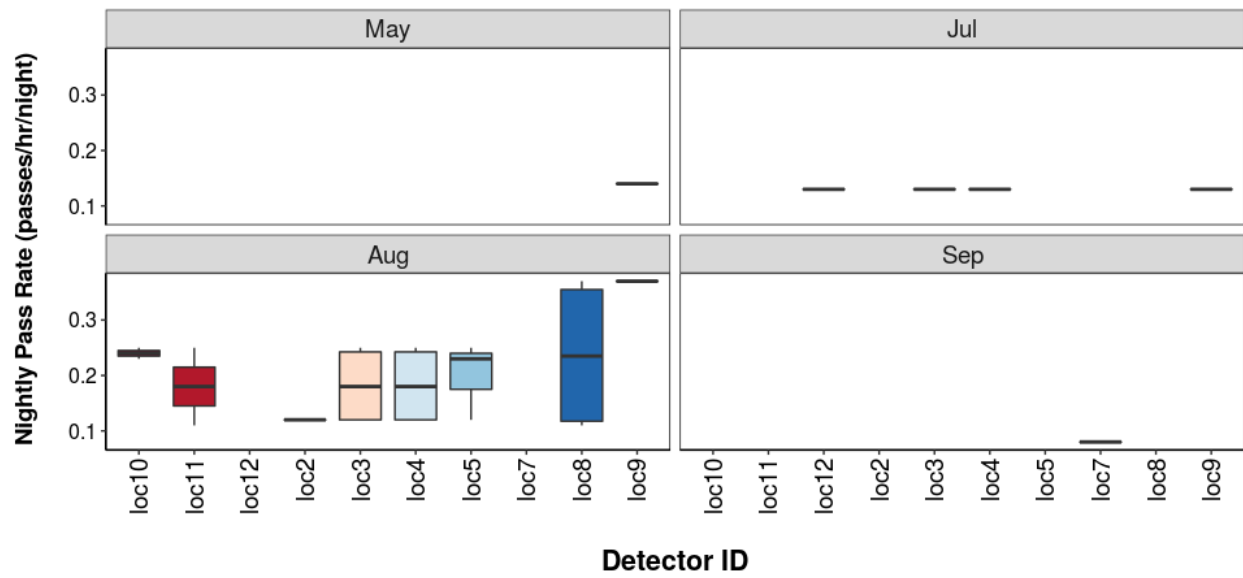
Common pipistrelle



Soprano pipistrelle



Brown long-eared



Bat Activity per Detector Location

Figure 13. Detector ID reference:

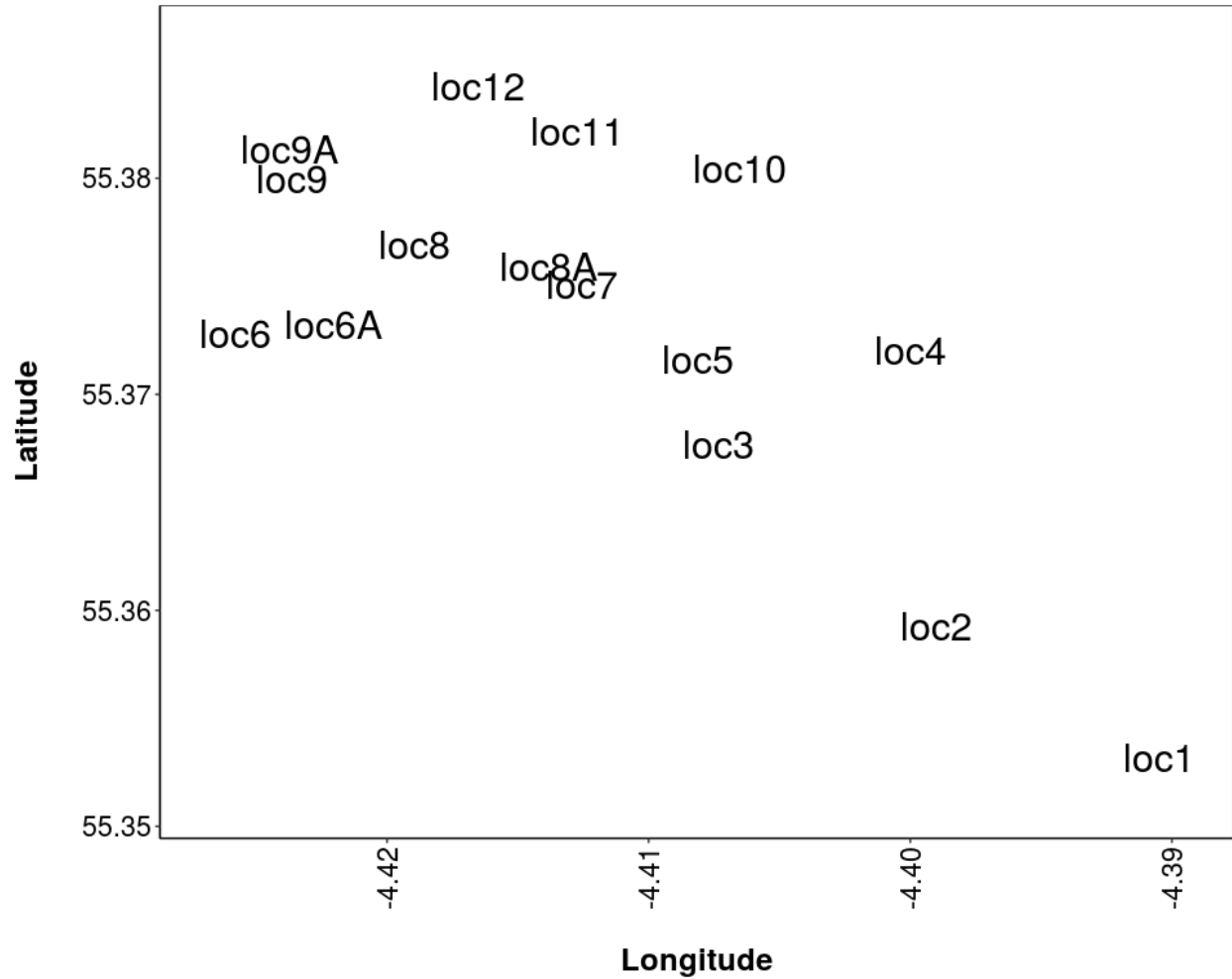


Figure 14. Median Nightly Pass Rate (bat passes/hr /night) throughout the survey period - represented by the size and colour of the point at each detector location.

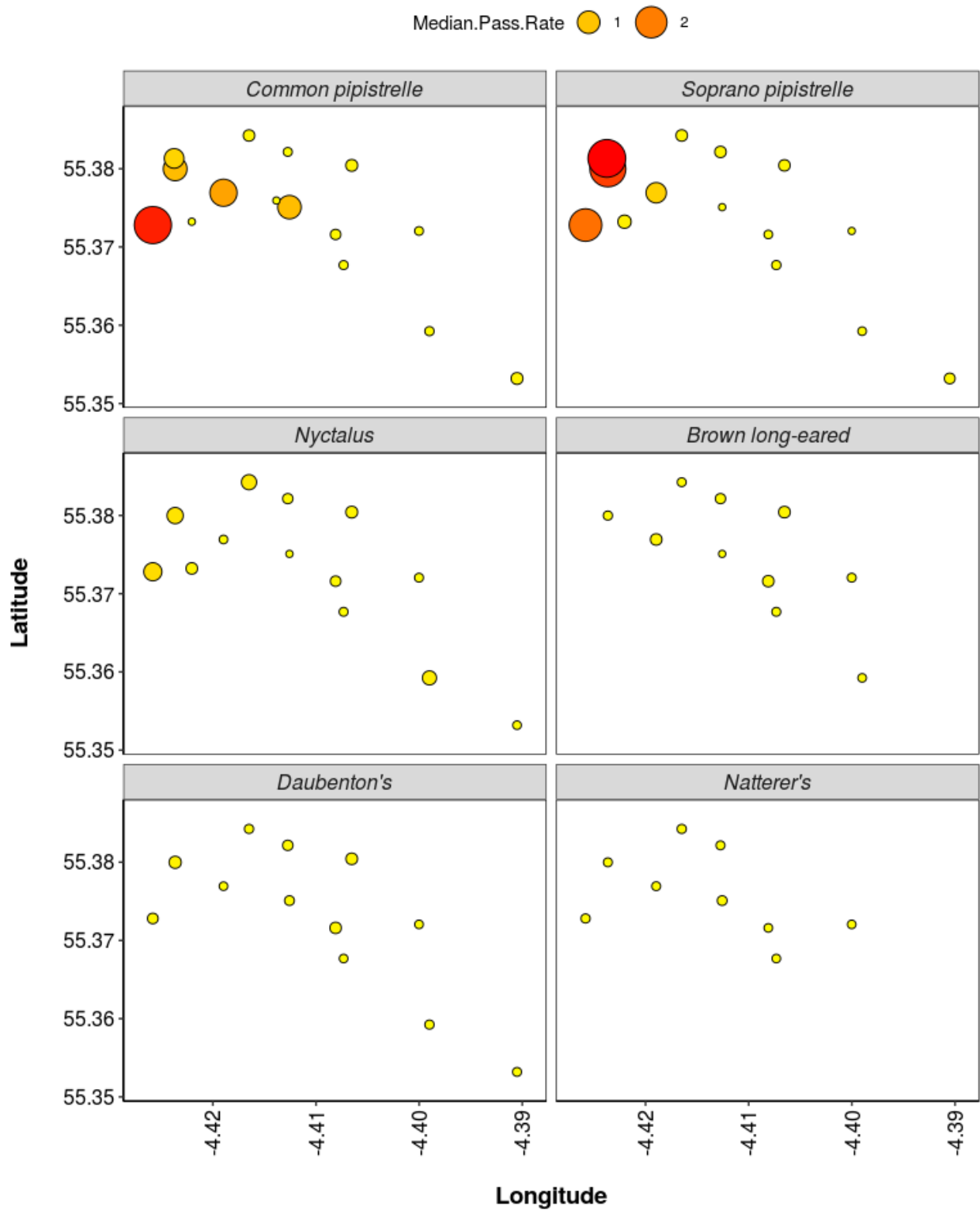
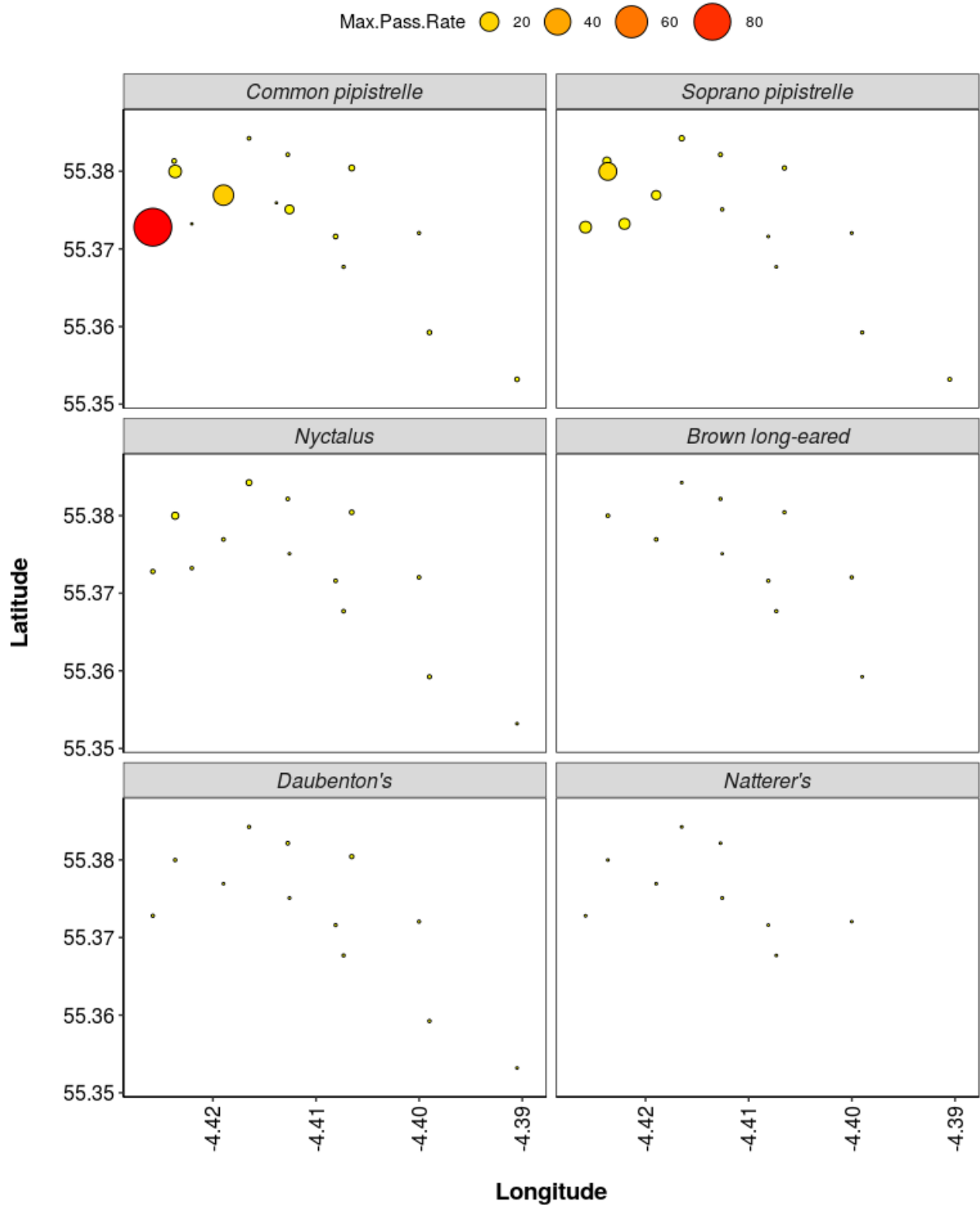


Figure 15. Maximum Nightly Pass Rate (bat passes/hr/night) recorded in a single night throughout the survey period - represented by the size and colour of the point at each detector location.



PART 2B: Includes absences

THE NEXT SECTION OF THE REPORT FEATURES THE DATA SUPPLIED TO ECOBAT BUT TAKES INTO ACCOUNT SPECIES ABSENCES, AND THEREFORE INCLUDES 'ZERO DATA' FOR WHEN SPECIES WERE NOT DETECTED AT EACH DETECTOR ON A NIGHT. THIS DRAMATICALLY LOWERS THE MEANS AND MEDIANS OF THE DATA PRESENTED.

Nightly Bat Pass Rate (Bat passes per hour)

Median Per Detector

Table 22. The median Nightly Pass Rate (bat passes per hour, per night) of each species. If NA, then no bat passes.

Bat pass rates are often highly variable between nights, with some nights having few or no passes and other nights having high activity. In these circumstances, the median is likely to be a more useful summary of the 'average' activity than is the mean. For further information see: *Lintott, P. R., & Mathews, F. (2018). Basic mathematical errors may make ecological assessments unreliable. Biodiversity and Conservation, 27(1), 265-267.*

<https://doi.org/10.1007/s10531-017-1418-5>

Species	Detector ID	Median Pass Rate
Brown long-eared	loc1	0.0
Brown long-eared	loc10	0.0
Brown long-eared	loc11	0.0
Brown long-eared	loc12	0.0
Brown long-eared	loc2	0.0
Brown long-eared	loc3	0.0
Brown long-eared	loc4	0.0
Brown long-eared	loc5	0.0
Brown long-eared	loc6	0.0
Brown long-eared	loc6A	0.0
Brown long-eared	loc7	0.0
Brown long-eared	loc8	0.0
Brown long-eared	loc8A	0.0
Brown long-eared	loc9	0.0
Brown long-eared	loc9A	0.0
Common pipistrelle	loc1	0.1
Common pipistrelle	loc10	0.1
Common pipistrelle	loc11	0.0
Common pipistrelle	loc12	0.0
Common pipistrelle	loc2	0.1
Common pipistrelle	loc3	0.1
Common pipistrelle	loc4	0.0
Common pipistrelle	loc5	0.1

Common pipistrelle	loc6	1.3
Common pipistrelle	loc6A	0.0
Common pipistrelle	loc7	0.6
Common pipistrelle	loc8	0.8
Common pipistrelle	loc8A	0.1
Common pipistrelle	loc9	0.1
Common pipistrelle	loc9A	0.8
Daubenton's	loc1	0.0
Daubenton's	loc10	0.1
Daubenton's	loc11	0.1
Daubenton's	loc12	0.0
Daubenton's	loc2	0.0
Daubenton's	loc3	0.0
Daubenton's	loc4	0.0
Daubenton's	loc5	0.0
Daubenton's	loc6	0.0
Daubenton's	loc6A	0.0
Daubenton's	loc7	0.0
Daubenton's	loc8	0.0
Daubenton's	loc8A	0.0
Daubenton's	loc9	0.0
Daubenton's	loc9A	0.0
Natterer's	loc1	0.0
Natterer's	loc10	0.0
Natterer's	loc11	0.0
Natterer's	loc12	0.0
Natterer's	loc2	0.0
Natterer's	loc3	0.0
Natterer's	loc4	0.0
Natterer's	loc5	0.0
Natterer's	loc6	0.0
Natterer's	loc6A	0.0
Natterer's	loc7	0.0
Natterer's	loc8	0.0
Natterer's	loc8A	0.0
Natterer's	loc9	0.0

Natterer's	loc9A	0.0
Nyctalus	loc1	0.0
Nyctalus	loc10	0.0
Nyctalus	loc11	0.0
Nyctalus	loc12	0.0
Nyctalus	loc2	0.0
Nyctalus	loc3	0.1
Nyctalus	loc4	0.0
Nyctalus	loc5	0.0
Nyctalus	loc6	0.0
Nyctalus	loc6A	0.0
Nyctalus	loc7	0.0
Nyctalus	loc8	0.0
Nyctalus	loc8A	0.0
Nyctalus	loc9	0.0
Nyctalus	loc9A	0.0
Soprano pipistrelle	loc1	0.1
Soprano pipistrelle	loc10	0.1
Soprano pipistrelle	loc11	0.1
Soprano pipistrelle	loc12	0.1
Soprano pipistrelle	loc2	0.0
Soprano pipistrelle	loc3	0.0
Soprano pipistrelle	loc4	0.0
Soprano pipistrelle	loc5	0.0
Soprano pipistrelle	loc6	0.0
Soprano pipistrelle	loc6A	0.3
Soprano pipistrelle	loc7	0.0
Soprano pipistrelle	loc8	0.1
Soprano pipistrelle	loc8A	0.0
Soprano pipistrelle	loc9	1.6
Soprano pipistrelle	loc9A	2.9

Nightly Bat Pass Rate (Bat passes per hour)

Mean per Detector

Table 23. The mean Nightly Pass Rate (bat passes per hour, per night) of each species at each detector. Values are given to 1 decimal place.

We recommend using the median values given above, for the reasons stated above, but provide the mean values in the table below.

Species	Detector ID	Mean Pass Rate
Brown long-eared	loc1	0.0
Brown long-eared	loc10	0.0
Brown long-eared	loc11	0.0
Brown long-eared	loc12	0.0
Brown long-eared	loc2	0.0
Brown long-eared	loc3	0.1
Brown long-eared	loc4	0.1
Brown long-eared	loc5	0.0
Brown long-eared	loc6	0.0
Brown long-eared	loc6A	0.0
Brown long-eared	loc7	0.0
Brown long-eared	loc8	0.0
Brown long-eared	loc8A	0.0
Brown long-eared	loc9	0.0
Brown long-eared	loc9A	0.0
Common pipistrelle	loc1	0.2
Common pipistrelle	loc10	0.2
Common pipistrelle	loc11	0.1
Common pipistrelle	loc12	0.1
Common pipistrelle	loc2	0.2
Common pipistrelle	loc3	0.1
Common pipistrelle	loc4	0.0
Common pipistrelle	loc5	0.2
Common pipistrelle	loc6	14.4
Common pipistrelle	loc6A	0.0
Common pipistrelle	loc7	0.9

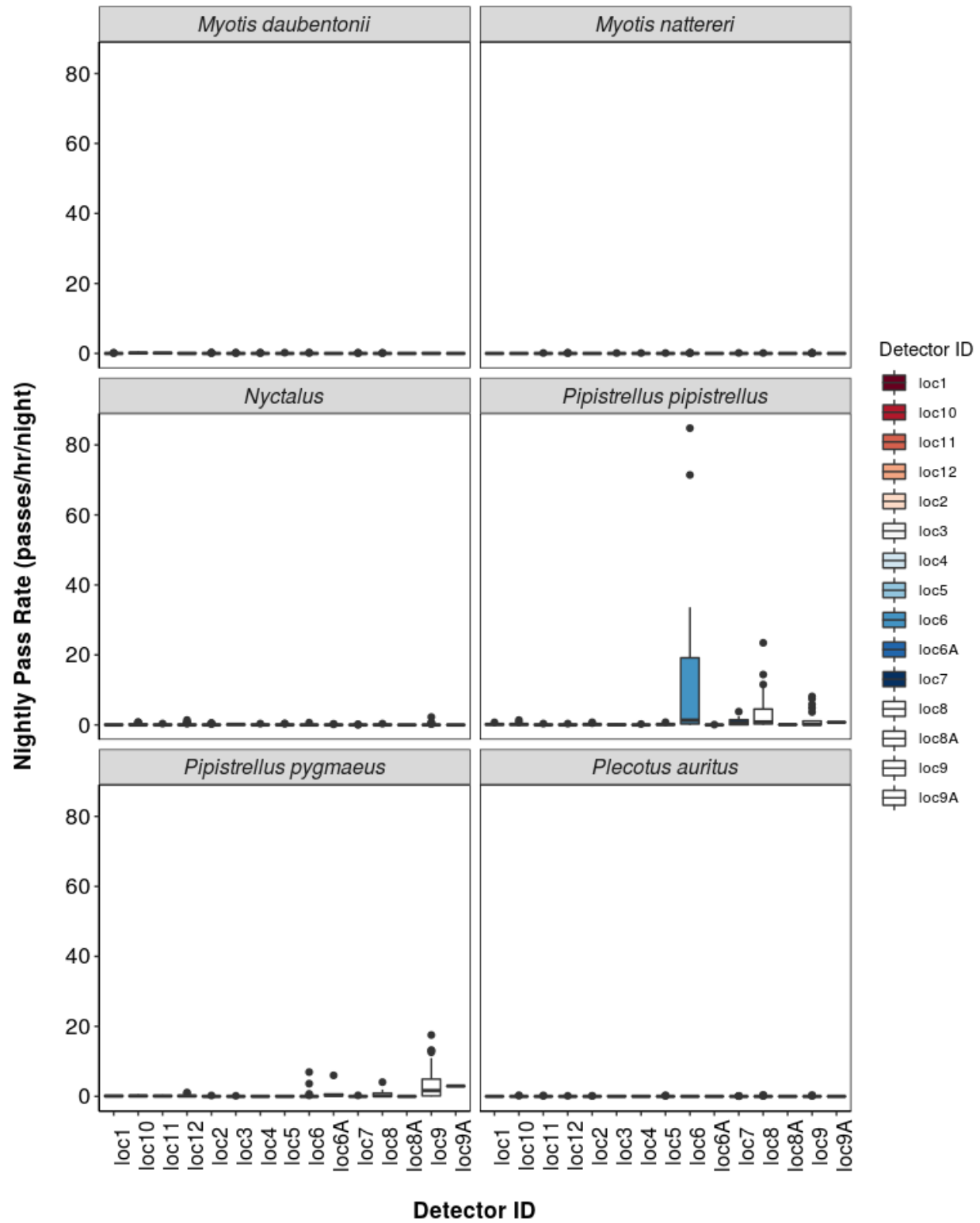
Common pipistrelle	loc8	4.1
Common pipistrelle	loc8A	0.1
Common pipistrelle	loc9	1.4
Common pipistrelle	loc9A	0.8
Daubenton's	loc1	0.0
Daubenton's	loc10	0.2
Daubenton's	loc11	0.1
Daubenton's	loc12	0.1
Daubenton's	loc2	0.0
Daubenton's	loc3	0.0
Daubenton's	loc4	0.0
Daubenton's	loc5	0.0
Daubenton's	loc6	0.0
Daubenton's	loc6A	0.0
Daubenton's	loc7	0.0
Daubenton's	loc8	0.0
Daubenton's	loc8A	0.0
Daubenton's	loc9	0.1
Daubenton's	loc9A	0.0
Natterer's	loc1	0.0
Natterer's	loc10	0.0
Natterer's	loc11	0.0
Natterer's	loc12	0.0
Natterer's	loc2	0.0
Natterer's	loc3	0.0
Natterer's	loc4	0.0
Natterer's	loc5	0.0
Natterer's	loc6	0.0
Natterer's	loc6A	0.0
Natterer's	loc7	0.0
Natterer's	loc8	0.0
Natterer's	loc8A	0.0
Natterer's	loc9	0.0
Natterer's	loc9A	0.0
Nyctalus	loc1	0.0
Nyctalus	loc10	0.2

Nyctalus	loc11	0.1
Nyctalus	loc12	0.1
Nyctalus	loc2	0.1
Nyctalus	loc3	0.1
Nyctalus	loc4	0.1
Nyctalus	loc5	0.1
Nyctalus	loc6	0.0
Nyctalus	loc6A	0.1
Nyctalus	loc7	0.0
Nyctalus	loc8	0.1
Nyctalus	loc8A	0.0
Nyctalus	loc9	0.2
Nyctalus	loc9A	0.0
Soprano pipistrelle	loc1	0.1
Soprano pipistrelle	loc10	0.1
Soprano pipistrelle	loc11	0.1
Soprano pipistrelle	loc12	0.2
Soprano pipistrelle	loc2	0.0
Soprano pipistrelle	loc3	0.0
Soprano pipistrelle	loc4	0.0
Soprano pipistrelle	loc5	0.1
Soprano pipistrelle	loc6	0.6
Soprano pipistrelle	loc6A	1.0
Soprano pipistrelle	loc7	0.0
Soprano pipistrelle	loc8	0.6
Soprano pipistrelle	loc8A	0.0
Soprano pipistrelle	loc9	4.0
Soprano pipistrelle	loc9A	2.9

Nightly Bat Passes (Bat passes per hour)

Per Detector - Figures

Figure 16. Figures show boxplots for the number of bat passes per hour each night, for each detector. The 'box' shows the interquartile range, which is where the middle 50% of the data lie. The line dividing the box is the median, the mid-point of the data. The 'whiskers' extend from the box and represent the ranges for the bottom 25% and the top 25% of the data values, excluding outliers. An outlier is any extreme value that lies further away from the box than 1.5 times the interquartile range. Outliers are shown as dots. Where very few passes are recorded it is not possible to produce the box, so the data are shown as a line.



Survey Effort

Table 24. The number of nights bats were detected per month per detector.

Month	Detector ID	No of Survey Nights
May	loc1	5
May	loc10	6
May	loc11	9
May	loc12	9
May	loc2	5
May	loc3	3
May	loc5	3
May	loc6	7
May	loc7	3
May	loc8	8
May	loc9	11
Jul	loc1	1
Jul	loc10	2
Jul	loc11	2
Jul	loc12	2
Jul	loc2	2
Jul	loc3	2
Jul	loc4	2
Jul	loc5	2
Jul	loc6	2
Jul	loc7	2
Jul	loc8	2
Jul	loc9	2
Aug	loc1	4
Aug	loc10	12
Aug	loc11	9
Aug	loc12	10
Aug	loc2	8
Aug	loc3	7
Aug	loc4	7
Aug	loc5	7

Aug	loc6	10
Aug	loc7	9
Aug	loc8	9
Aug	loc9	12
Sep	loc1	4
Sep	loc10	2
Sep	loc11	3
Sep	loc12	4
Sep	loc2	2
Sep	loc4	3
Sep	loc6A	5
Sep	loc7	5
Sep	loc8A	1
Sep	loc9A	1
Oct	loc1	1
Oct	loc10	1
Oct	loc11	2
Oct	loc12	4
Oct	loc2	2
Oct	loc4	3
Oct	loc5	1
Oct	loc6A	3
Oct	loc7	3

Nightly Bat Pass Rate for each Month

Median Per Detector

Table 25. The median Nightly Pass Rate (bat passes per hour, per night) of each species throughout each month. If NA, then no bat passes.

Bat pass rates are often highly variable between nights, with some nights having few or no passes and other nights having high activity. In these circumstances, the median is likely to be a more useful summary of the 'average' activity than is the mean. For further information see: *Lintott, P. R., & Mathews, F. (2018). Basic mathematical errors may make ecological assessments unreliable. Biodiversity and Conservation, 27(1), 265-267.*

<https://doi.org/10.1007/s10531-017-1418-5>

Species	Detector ID	Aug	Jul	May	Oct	Sep
Brown long-eared	loc1	0.0	0.0	0.0	0.0	0.0
Brown long-eared	loc10	0.0	0.0	0.0	0.0	0.0
Brown long-eared	loc11	0.0	0.0	0.0	0.0	0.0
Brown long-eared	loc12	0.0	0.1	0.0	0.0	0.0
Brown long-eared	loc2	0.0	0.0	0.0	0.0	0.0
Brown long-eared	loc3	0.1	0.1	0.0	NA	NA
Brown long-eared	loc4	0.1	0.1	NA	0.0	0.0
Brown long-eared	loc5	0.0	0.0	0.0	0.0	NA
Brown long-eared	loc6	0.0	0.0	0.0	NA	NA
Brown long-eared	loc6A	NA	NA	NA	0.0	0.0
Brown long-eared	loc7	0.0	0.0	0.0	0.0	0.1
Brown long-eared	loc8	0.0	0.0	0.0	NA	NA
Brown long-eared	loc8A	NA	NA	NA	NA	0.0
Brown long-eared	loc9	0.0	0.1	0.0	NA	NA
Brown long-eared	loc9A	NA	NA	NA	NA	0.0
Common pipistrelle	loc1	0.2	0.2	0.3	0.0	0.0
Common pipistrelle	loc10	0.2	0.2	0.1	0.0	0.0
Common pipistrelle	loc11	0.1	0.3	0.1	0.0	0.0
Common pipistrelle	loc12	0.2	0.1	0.0	0.0	0.0
Common pipistrelle	loc2	0.2	0.2	0.1	0.0	0.0
Common pipistrelle	loc3	0.0	0.1	0.1	NA	NA
Common pipistrelle	loc4	0.0	0.1	NA	0.0	0.0
Common pipistrelle	loc5	0.1	0.4	0.1	0.0	NA

Common pipistrelle	loc6	8.2	44.5	0.1	NA	NA
Common pipistrelle	loc6A	NA	NA	NA	0.0	0.0
Common pipistrelle	loc7	1.4	2.4	0.3	0.1	0.0
Common pipistrelle	loc8	1.4	18.9	0.4	NA	NA
Common pipistrelle	loc8A	NA	NA	NA	NA	0.1
Common pipistrelle	loc9	0.0	4.8	0.3	NA	NA
Common pipistrelle	loc9A	NA	NA	NA	NA	0.8
Daubenton's	loc1	0.0	0.1	0.0	0.0	0.0
Daubenton's	loc10	0.2	0.2	0.1	0.0	0.0
Daubenton's	loc11	0.1	0.0	0.1	0.0	0.0
Daubenton's	loc12	0.1	0.2	0.1	0.0	0.0
Daubenton's	loc2	0.0	0.0	0.1	0.0	0.0
Daubenton's	loc3	0.0	0.0	0.0	NA	NA
Daubenton's	loc4	0.0	0.0	NA	0.0	0.0
Daubenton's	loc5	0.0	0.0	0.0	0.0	NA
Daubenton's	loc6	0.0	0.0	0.0	NA	NA
Daubenton's	loc6A	NA	NA	NA	0.0	0.0
Daubenton's	loc7	0.0	0.0	0.0	0.2	0.0
Daubenton's	loc8	0.0	0.0	0.0	NA	NA
Daubenton's	loc8A	NA	NA	NA	NA	0.0
Daubenton's	loc9	0.0	0.0	0.3	NA	NA
Daubenton's	loc9A	NA	NA	NA	NA	0.0
Natterer's	loc1	0.0	0.0	0.0	0.0	0.0
Natterer's	loc10	0.0	0.0	0.0	0.0	0.0
Natterer's	loc11	0.0	0.1	0.0	0.0	0.0
Natterer's	loc12	0.0	0.0	0.0	0.0	0.0
Natterer's	loc2	0.0	0.0	0.0	0.0	0.0
Natterer's	loc3	0.0	0.0	0.0	NA	NA
Natterer's	loc4	0.0	0.0	NA	0.0	0.0
Natterer's	loc5	0.0	0.0	0.0	0.0	NA
Natterer's	loc6	0.0	0.0	0.1	NA	NA
Natterer's	loc6A	NA	NA	NA	0.0	0.0
Natterer's	loc7	0.0	0.0	0.0	0.0	0.0
Natterer's	loc8	0.0	0.0	0.0	NA	NA
Natterer's	loc8A	NA	NA	NA	NA	0.0
Natterer's	loc9	0.0	0.0	0.0	NA	NA

Natterer's	loc9A	NA	NA	NA	NA	0.0
Nyctalus	loc1	0.1	0.1	0.0	0.0	0.0
Nyctalus	loc10	0.2	0.4	0.0	0.0	0.0
Nyctalus	loc11	0.1	0.3	0.0	0.0	0.0
Nyctalus	loc12	0.1	1.1	0.0	0.0	0.0
Nyctalus	loc2	0.0	0.3	0.0	0.0	0.0
Nyctalus	loc3	0.1	0.1	0.0	NA	NA
Nyctalus	loc4	0.1	0.1	NA	0.0	0.0
Nyctalus	loc5	0.1	0.2	0.0	0.0	NA
Nyctalus	loc6	0.0	0.3	0.0	NA	NA
Nyctalus	loc6A	NA	NA	NA	0.2	0.0
Nyctalus	loc7	0.0	0.0	0.0	0.0	0.0
Nyctalus	loc8	0.1	0.0	0.0	NA	NA
Nyctalus	loc8A	NA	NA	NA	NA	0.0
Nyctalus	loc9	0.0	1.2	0.0	NA	NA
Nyctalus	loc9A	NA	NA	NA	NA	0.0
Soprano pipistrelle	loc1	0.2	0.0	0.0	0.1	0.1
Soprano pipistrelle	loc10	0.1	0.2	0.0	0.1	0.2
Soprano pipistrelle	loc11	0.0	0.2	0.0	0.1	0.1
Soprano pipistrelle	loc12	0.1	0.2	0.0	0.3	0.4
Soprano pipistrelle	loc2	0.0	0.1	0.0	0.2	0.1
Soprano pipistrelle	loc3	0.0	0.0	0.0	NA	NA
Soprano pipistrelle	loc4	0.0	0.0	NA	0.1	0.1
Soprano pipistrelle	loc5	0.0	0.0	0.1	0.1	NA
Soprano pipistrelle	loc6	0.0	5.3	0.0	NA	NA
Soprano pipistrelle	loc6A	NA	NA	NA	0.4	0.2
Soprano pipistrelle	loc7	0.0	0.0	0.1	0.1	0.0
Soprano pipistrelle	loc8	0.8	0.0	0.1	NA	NA
Soprano pipistrelle	loc8A	NA	NA	NA	NA	0.0
Soprano pipistrelle	loc9	6.4	3.0	0.1	NA	NA
Soprano pipistrelle	loc9A	NA	NA	NA	NA	2.9

Nightly Bat Pass Rate for each Month

Mean per Detector

Table 26. The mean Nightly Pass Rate (bat passes per hour, per night) of each species throughout each month. Values are given to 1 decimal place.

We recommend using the median values given above, for the reasons stated above, but provide the mean values in the table below.

Species	Detector ID	Aug	Jul	May	Oct	Sep
Brown long-eared	loc1	0.0	0.0	0.0	0.0	0.0
Brown long-eared	loc10	0.0	0.0	0.0	0.0	0.0
Brown long-eared	loc11	0.0	0.0	0.0	0.0	0.0
Brown long-eared	loc12	0.0	0.1	0.0	0.0	0.0
Brown long-eared	loc2	0.0	0.0	0.0	0.0	0.0
Brown long-eared	loc3	0.1	0.1	0.0	NA	NA
Brown long-eared	loc4	0.1	0.1	NA	0.0	0.0
Brown long-eared	loc5	0.1	0.0	0.0	0.0	NA
Brown long-eared	loc6	0.0	0.0	0.0	NA	NA
Brown long-eared	loc6A	NA	NA	NA	0.0	0.0
Brown long-eared	loc7	0.0	0.0	0.0	0.0	0.1
Brown long-eared	loc8	0.1	0.0	0.0	NA	NA
Brown long-eared	loc8A	NA	NA	NA	NA	0.0
Brown long-eared	loc9	0.0	0.1	0.0	NA	NA
Brown long-eared	loc9A	NA	NA	NA	NA	0.0
Common pipistrelle	loc1	0.2	0.2	0.3	0.0	0.0
Common pipistrelle	loc10	0.4	0.2	0.1	0.0	0.0
Common pipistrelle	loc11	0.1	0.3	0.1	0.0	0.0
Common pipistrelle	loc12	0.2	0.1	0.1	0.0	0.0
Common pipistrelle	loc2	0.3	0.2	0.1	0.0	0.0
Common pipistrelle	loc3	0.1	0.1	0.1	NA	NA
Common pipistrelle	loc4	0.1	0.1	NA	0.0	0.0
Common pipistrelle	loc5	0.1	0.4	0.1	0.0	NA
Common pipistrelle	loc6	18.3	44.5	0.3	NA	NA
Common pipistrelle	loc6A	NA	NA	NA	0.0	0.0
Common pipistrelle	loc7	1.5	2.4	0.3	0.1	0.0

Common pipistrelle	loc8	3.7	18.9	0.8	NA	NA
Common pipistrelle	loc8A	NA	NA	NA	NA	0.1
Common pipistrelle	loc9	1.7	4.8	0.4	NA	NA
Common pipistrelle	loc9A	NA	NA	NA	NA	0.8
Daubenton's	loc1	0.0	0.1	0.0	0.0	0.0
Daubenton's	loc10	0.2	0.2	0.1	0.0	0.0
Daubenton's	loc11	0.1	0.0	0.2	0.0	0.0
Daubenton's	loc12	0.1	0.2	0.1	0.0	0.0
Daubenton's	loc2	0.0	0.0	0.1	0.0	0.0
Daubenton's	loc3	0.1	0.0	0.0	NA	NA
Daubenton's	loc4	0.1	0.0	NA	0.0	0.0
Daubenton's	loc5	0.0	0.0	0.0	0.0	NA
Daubenton's	loc6	0.0	0.0	0.1	NA	NA
Daubenton's	loc6A	NA	NA	NA	0.0	0.0
Daubenton's	loc7	0.0	0.0	0.0	0.1	0.0
Daubenton's	loc8	0.0	0.0	0.0	NA	NA
Daubenton's	loc8A	NA	NA	NA	NA	0.0
Daubenton's	loc9	0.0	0.0	0.2	NA	NA
Daubenton's	loc9A	NA	NA	NA	NA	0.0
Natterer's	loc1	0.0	0.0	0.0	0.0	0.0
Natterer's	loc10	0.0	0.0	0.0	0.0	0.0
Natterer's	loc11	0.0	0.1	0.0	0.0	0.0
Natterer's	loc12	0.0	0.0	0.0	0.0	0.0
Natterer's	loc2	0.0	0.0	0.0	0.0	0.0
Natterer's	loc3	0.0	0.0	0.0	NA	NA
Natterer's	loc4	0.0	0.0	NA	0.0	0.0
Natterer's	loc5	0.0	0.0	0.0	0.0	NA
Natterer's	loc6	0.0	0.0	0.1	NA	NA
Natterer's	loc6A	NA	NA	NA	0.0	0.0
Natterer's	loc7	0.0	0.0	0.0	0.1	0.0
Natterer's	loc8	0.0	0.0	0.0	NA	NA
Natterer's	loc8A	NA	NA	NA	NA	0.0
Natterer's	loc9	0.0	0.0	0.0	NA	NA
Natterer's	loc9A	NA	NA	NA	NA	0.0
Nyctalus	loc1	0.1	0.1	0.0	0.0	0.0
Nyctalus	loc10	0.3	0.4	0.0	0.0	0.0

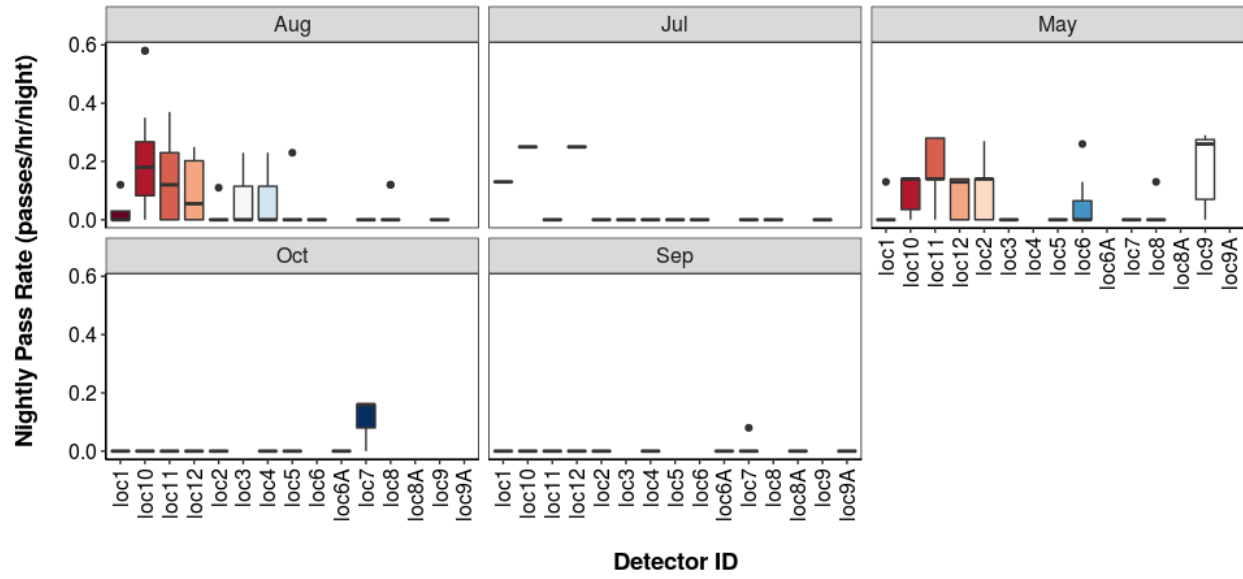
Nyctalus	loc11	0.1	0.3	0.0	0.0	0.0
Nyctalus	loc12	0.2	1.1	0.0	0.0	0.0
Nyctalus	loc2	0.1	0.3	0.0	0.0	0.0
Nyctalus	loc3	0.2	0.1	0.0	NA	NA
Nyctalus	loc4	0.2	0.1	NA	0.0	0.0
Nyctalus	loc5	0.1	0.2	0.0	0.0	NA
Nyctalus	loc6	0.0	0.3	0.0	NA	NA
Nyctalus	loc6A	NA	NA	NA	0.2	0.0
Nyctalus	loc7	0.0	0.0	0.0	0.0	0.0
Nyctalus	loc8	0.1	0.0	0.0	NA	NA
Nyctalus	loc8A	NA	NA	NA	NA	0.0
Nyctalus	loc9	0.1	1.2	0.0	NA	NA
Nyctalus	loc9A	NA	NA	NA	NA	0.0
Soprano pipistrelle	loc1	0.2	0.0	0.1	0.1	0.1
Soprano pipistrelle	loc10	0.2	0.2	0.0	0.1	0.2
Soprano pipistrelle	loc11	0.1	0.2	0.1	0.1	0.1
Soprano pipistrelle	loc12	0.1	0.2	0.0	0.3	0.5
Soprano pipistrelle	loc2	0.0	0.1	0.0	0.2	0.1
Soprano pipistrelle	loc3	0.0	0.0	0.0	NA	NA
Soprano pipistrelle	loc4	0.0	0.0	NA	0.1	0.1
Soprano pipistrelle	loc5	0.1	0.0	0.1	0.1	NA
Soprano pipistrelle	loc6	0.0	5.3	0.1	NA	NA
Soprano pipistrelle	loc6A	NA	NA	NA	0.4	1.4
Soprano pipistrelle	loc7	0.0	0.0	0.1	0.1	0.0
Soprano pipistrelle	loc8	1.2	0.0	0.2	NA	NA
Soprano pipistrelle	loc8A	NA	NA	NA	NA	0.0
Soprano pipistrelle	loc9	7.8	3.0	0.2	NA	NA
Soprano pipistrelle	loc9A	NA	NA	NA	NA	2.9

Nightly Bat Pass Rate for each Month

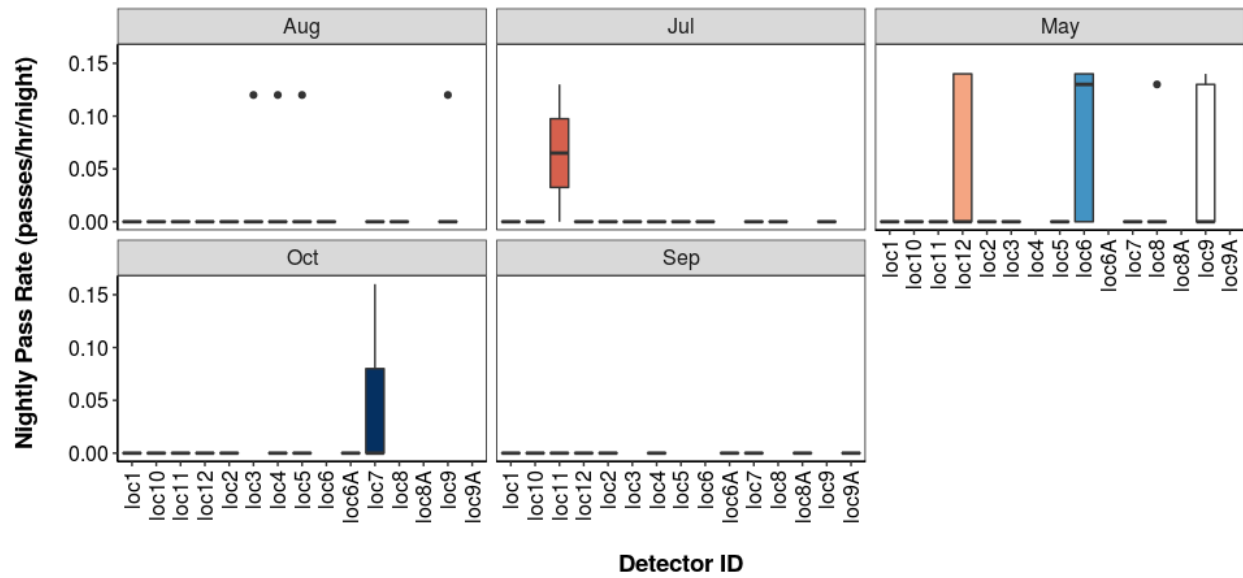
Per Detector - Figures

Figure 17. Figures show boxplots for the number of bat passes per hour by detector, for each month. The 'box' shows the interquartile range, which is where the middle 50% of the data lie. The line dividing the box is the median, the mid-point of the data. The 'whiskers' extend from the box and represent the ranges for the bottom 25% and the top 25% of the data values, excluding outliers. An outlier is any extreme value that lies further away from the box than 1.5 times the interquartile range. Outliers are shown as dots. Where very few passes are recorded it is not possible to produce the box, so the data are shown as a line.

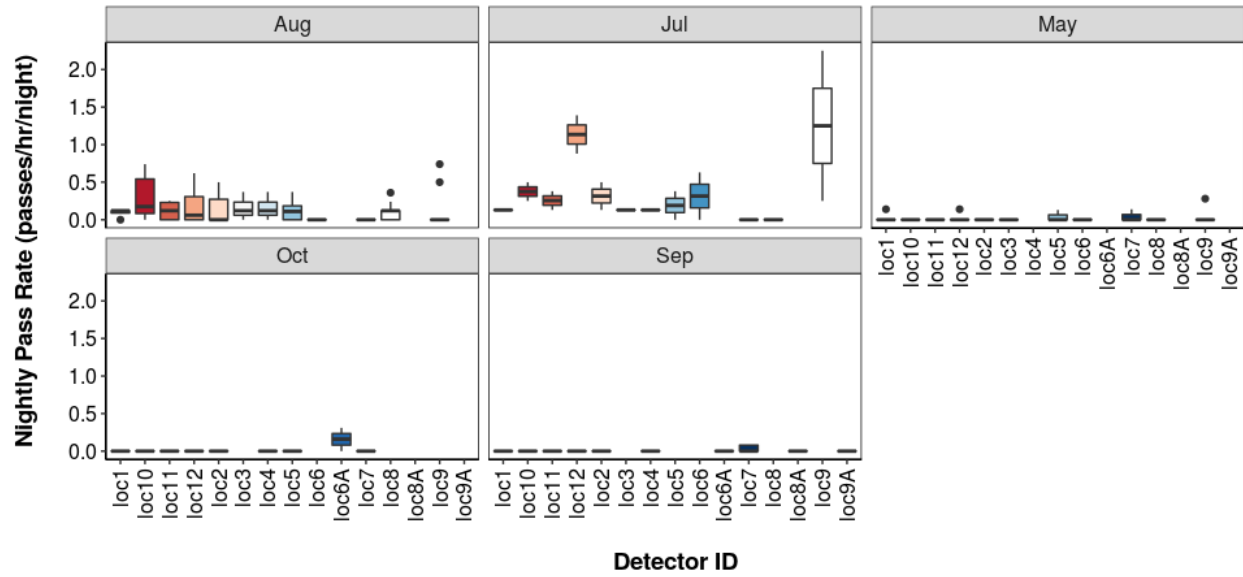
Daubenton's



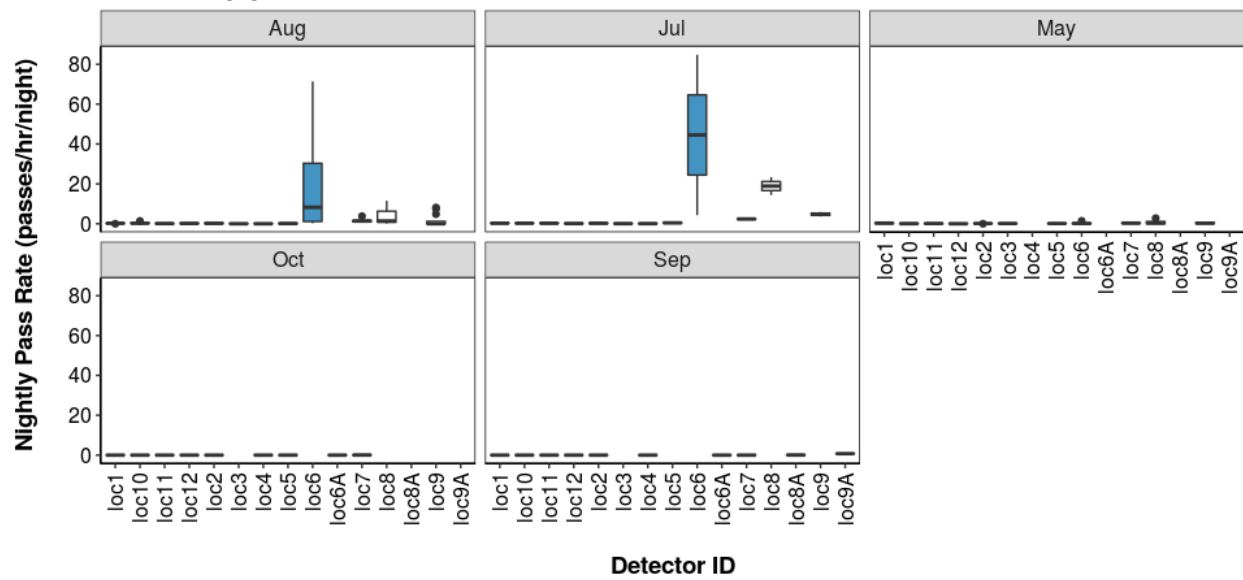
Natterer's



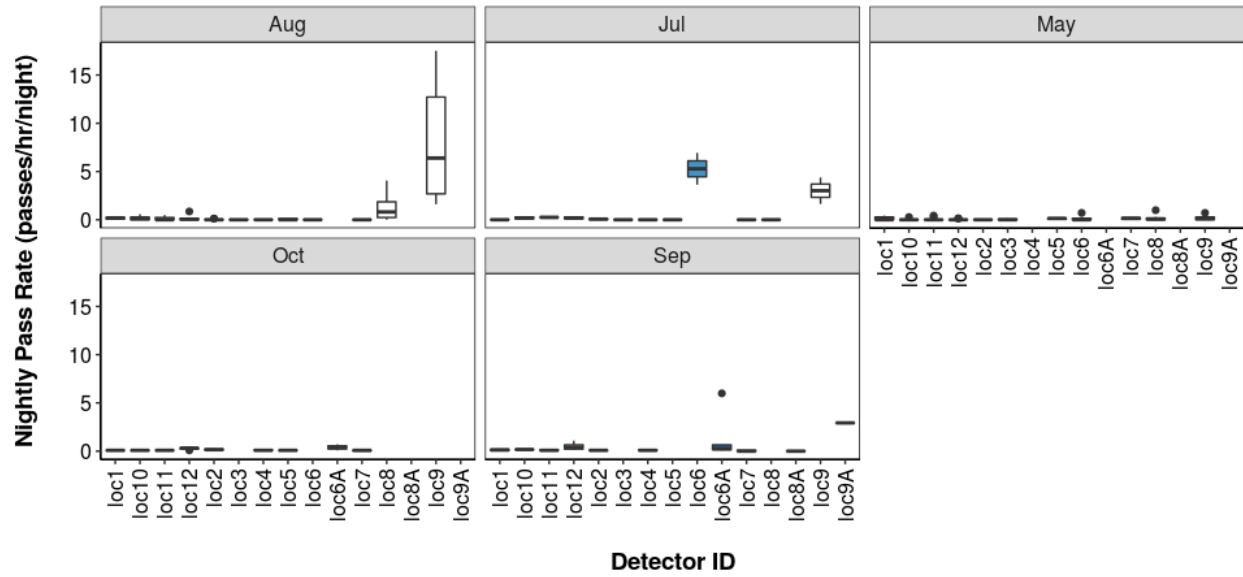
Nyctalus



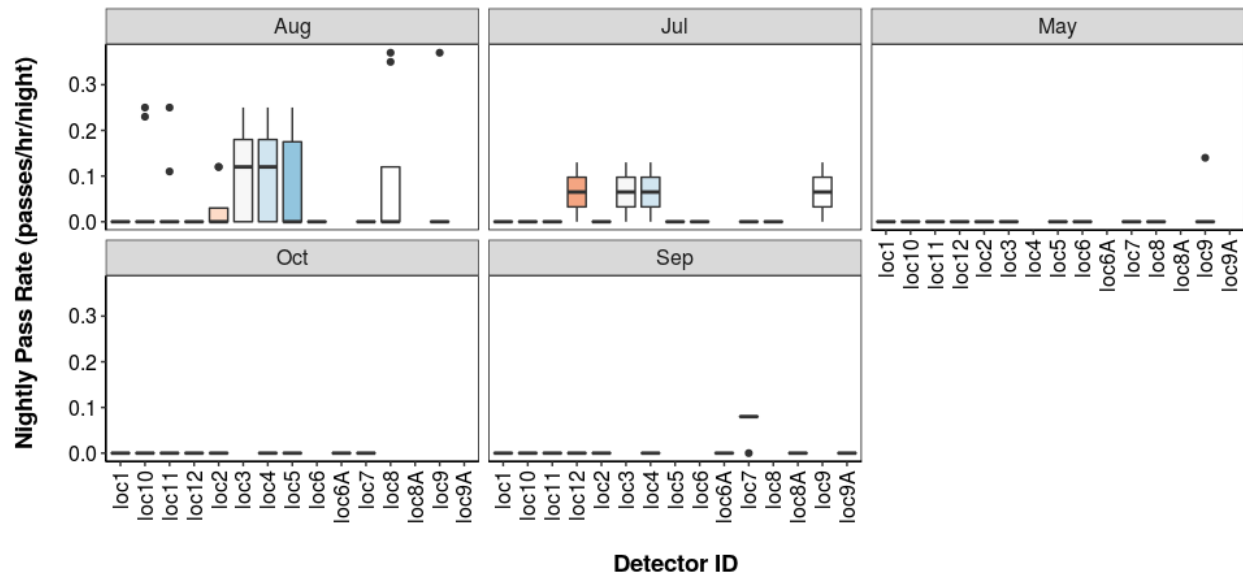
Common pipistrelle



Soprano pipistrelle



Brown long-eared



Bat Activity per Detector Location

Figure 18. Detector ID reference:

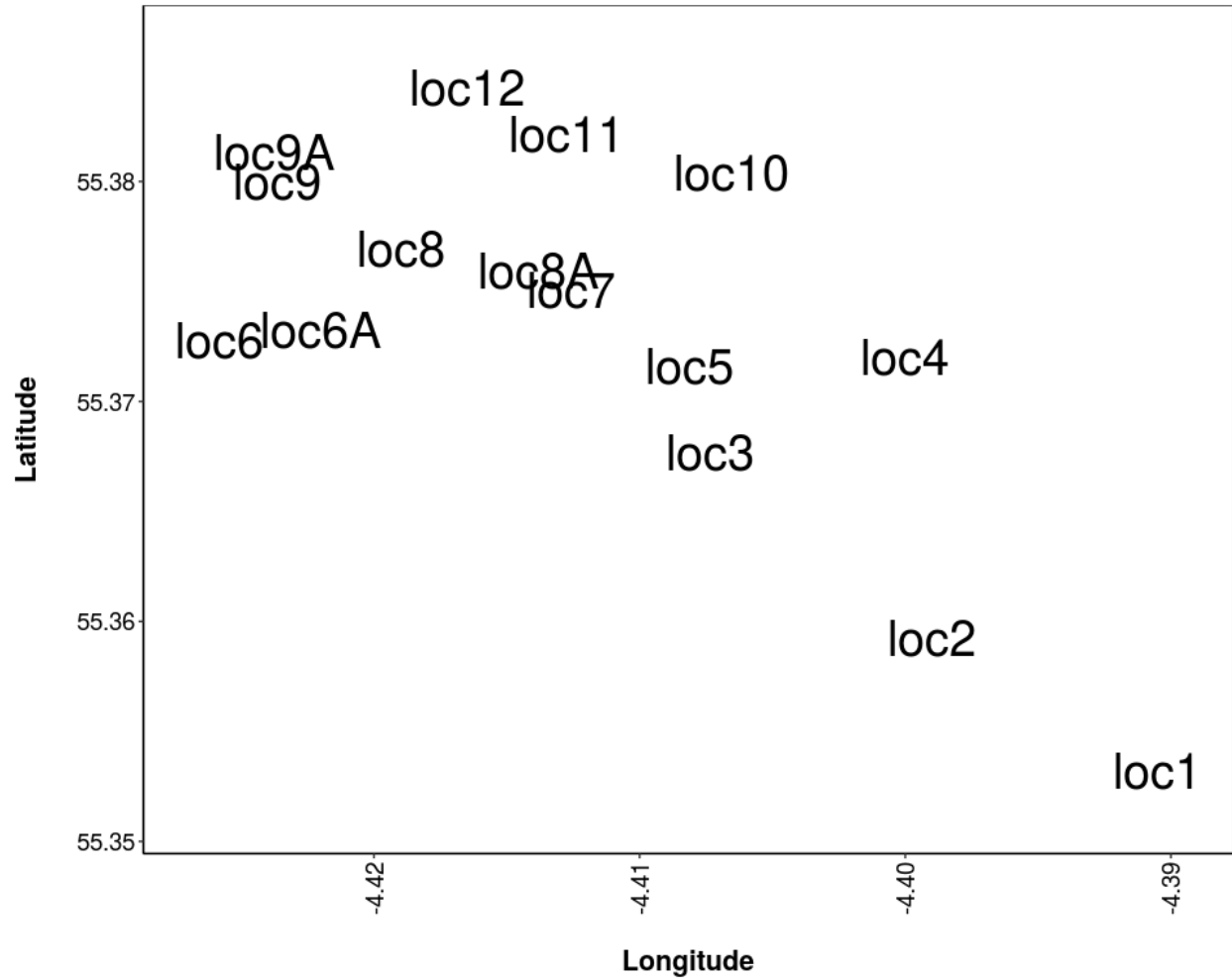


Figure 19. Median Nightly Pass Rate (bat passes/hr /night) throughout the survey period - represented by the size and colour of the point at each detector location.

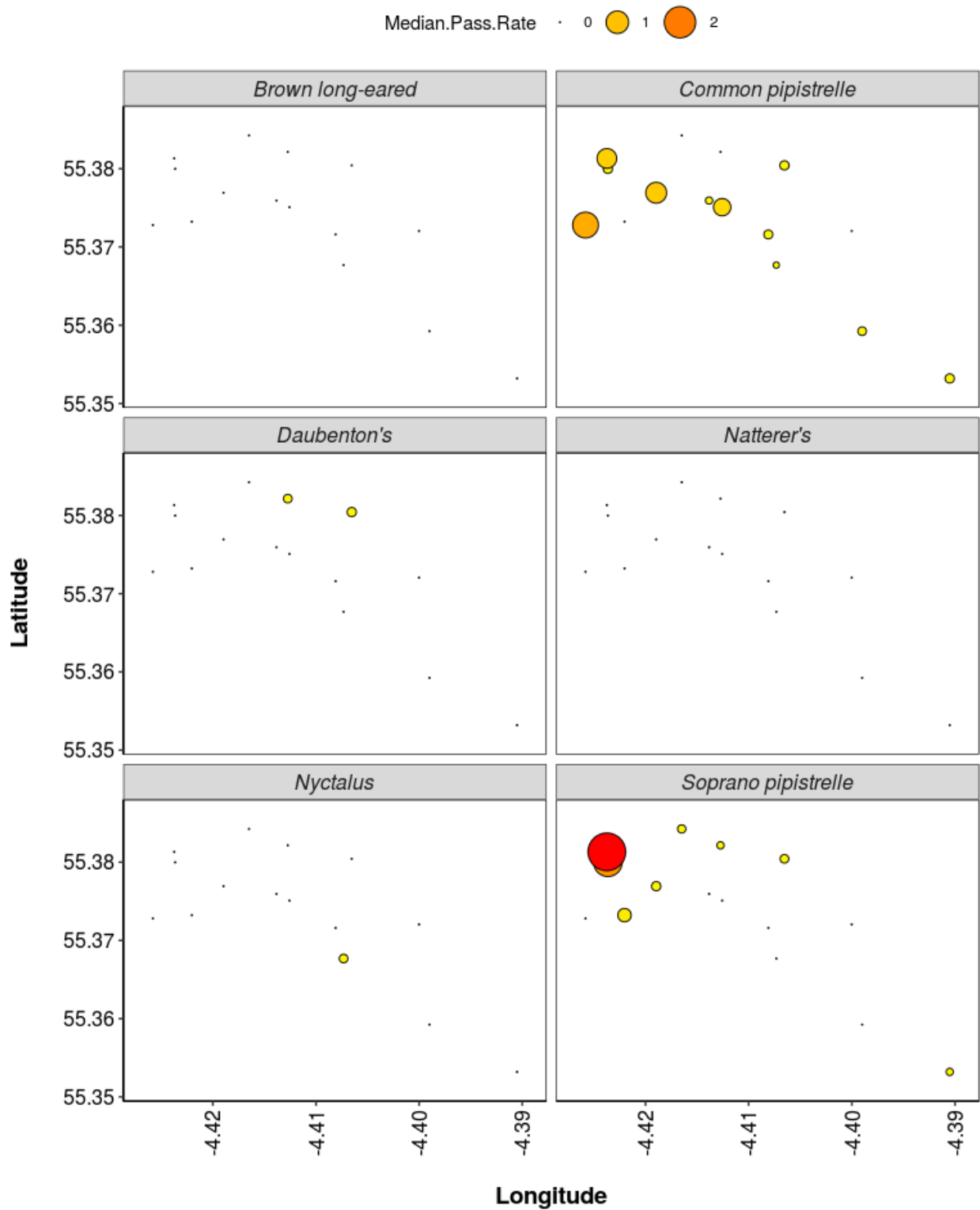
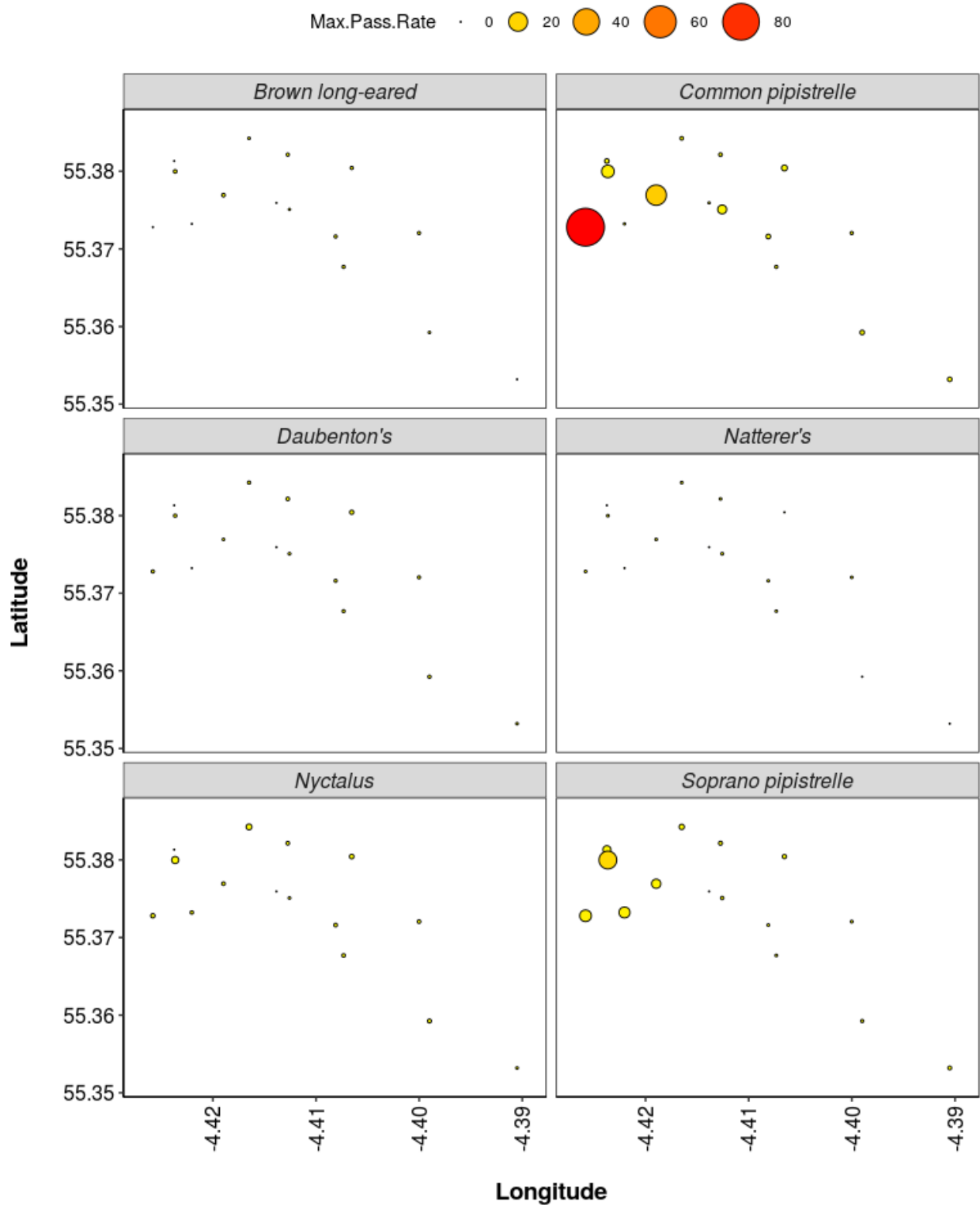


Figure 20. Maximum Nightly Pass Rate (bat passes/hr/night) recorded in a single night throughout the survey period - represented by the size and colour of the point at each detector location.



Thank you for using Ecobat! If you have any questions please email
info@themammalsociety.org.uk