Ecobat Bat Activity Analysis

Site Name: NA

NA

15/11/2019

### Summary

Bat surveys were conducted at May Static B, May Static A, for 7 nights between 2018-05-30 and 2018-06-05, using Titley Scientific, Wildlife Acoustics static bat detectors. The maximum of passes recorded in a single night was 84 passes, and 5 species were recorded.

The reference range dataset was stratified to include:

* Only records from within 30 days of the survey date.
* Only records from within 100km2 of the survey location.
* Records using any make of bat detector.

#### Table 1

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

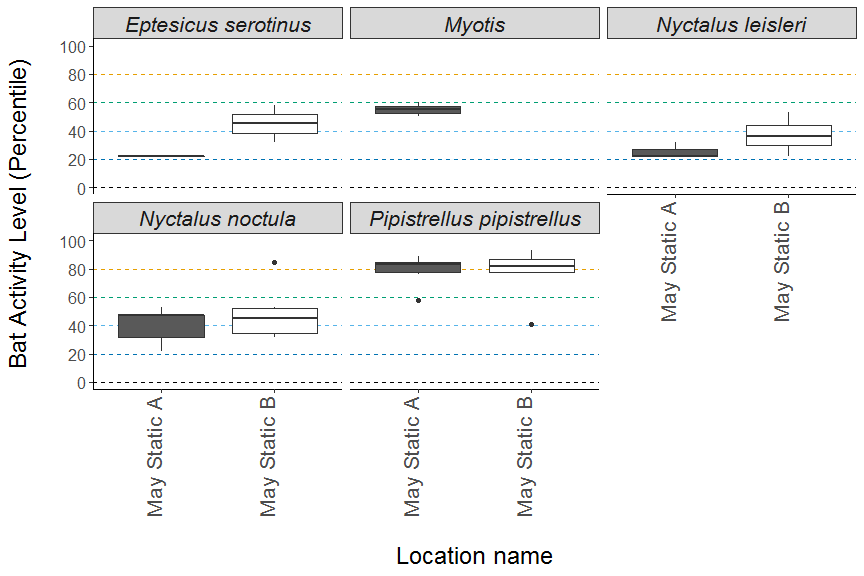
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Location | Species/Species Group | Nights of High Activity | Nights of Moderate/ High Activity | Nights of Moderate Activity | Nights of Low/ Moderate Activity | Nights of Low Activity |
| May Static A | *Eptesicus serotinus* | 0 | 0 | 0 | 1 | 0 |
| May Static A | *Myotis* | 0 | 0 | 2 | 0 | 0 |
| May Static A | *Nyctalus leisleri* | 0 | 0 | 0 | 3 | 0 |
| May Static A | *Nyctalus noctula* | 0 | 0 | 3 | 2 | 0 |
| May Static A | *Pipistrellus pipistrellus* | 4 | 1 | 1 | 0 | 0 |
| May Static B | *Eptesicus serotinus* | 0 | 0 | 1 | 1 | 0 |
| May Static B | *Nyctalus leisleri* | 0 | 0 | 2 | 2 | 0 |
| May Static B | *Nyctalus noctula* | 1 | 0 | 3 | 2 | 0 |
| May Static B | *Pipistrellus pipistrellus* | 3 | 1 | 1 | 0 | 0 |

#### Table 2

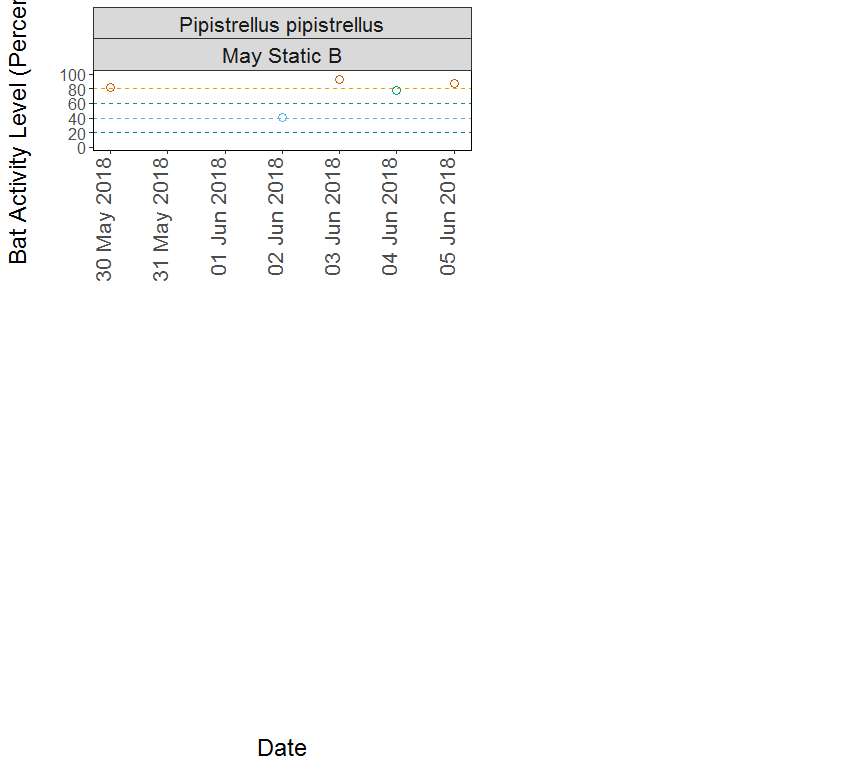
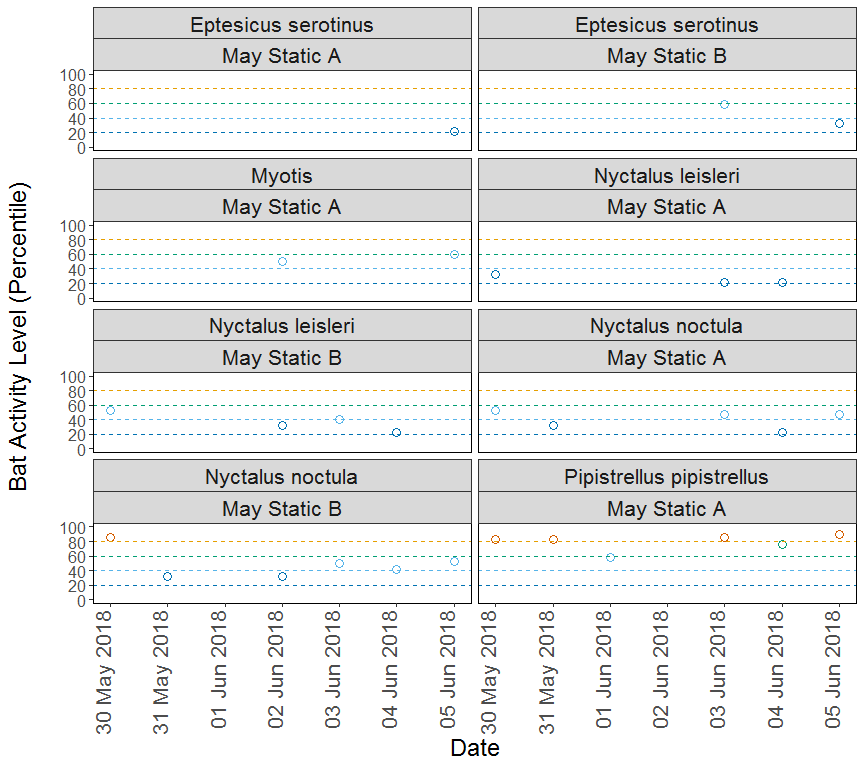
Summary table showing key metrics for each species recorded.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Location | Species/Species Group | Median Percentile | 95% CIs | Max Percentile | Nights Recorded | Reference Range |
| May Static A | *Eptesicus serotinus* | 22 | 0 | 22 | 1 | 31 |
| May Static A | *Myotis* | 55 | 55 - 55 | 60 | 2 | 24 |
| May Static A | *Nyctalus leisleri* | 22 | 22 - 22 | 32 | 3 | 24 |
| May Static A | *Nyctalus noctula* | 47 | 22 - 53 | 53 | 5 | 45 |
| May Static A | *Pipistrellus pipistrellus* | 83 | 70.5 - 86 | 89 | 6 | 46 |
| May Static B | *Eptesicus serotinus* | 45 | 45 - 45 | 58 | 2 | 31 |
| May Static B | *Nyctalus leisleri* | 37 | 22 - 53 | 53 | 4 | 24 |
| May Static B | *Nyctalus noctula* | 46 | 36.5 - 63 | 85 | 6 | 45 |
| May Static B | *Pipistrellus pipistrellus* | 82 | 61.5 - 87.5 | 93 | 5 | 46 |

### Figures



**Figure 1.** Differences in bat activity between static detector locations. 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 2.** The activity level (percentile) of bats recorded across each night of the bat survey, split by location and species.