

# **An Evaluation of Lands at Capdoo Commons and Abbeylands, Clane, Kildare For Potential as Bat Roost Sites and For Feeding and Commuting and Impacts Of Development**

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## **Introduction**

Bats are a widespread element of the Irish fauna and make up one quarter of all terrestrial mammal species. They are known to occur from much of the rural landscape which predominates on the island of Ireland, but they are also present within the urban environment and here they occupy buildings and occasionally trees for short or long periods. Houses and other buildings are a vital element of the annual cycle of all Irish bat species and at no time more so than the period May to August, but many bats may also avail of buildings as hibernation sites often when the presence of bats may be impossible to determine. Trees are less commonly noted as roost sites, partly due to a younger tree population for the island than in the rest of Europe and partly due to under-reporting.

Habitat loss or modification is an issue for bats as well as many other species. Changes to a site such as tree-felling and hedgerow clearance and the introduction of new houses and entire estates may remove roost sites and reduce the lands available to bats as a feeding site or in some way prevent full utilisation of the area by bats by interfering with a bat's ability to commute through a site or roost within the site.

Bats are protected by Irish and EU law and to prevent unlawful injury or death, it is essential that a full understanding of the site is available in advance to protect the resident bats from unintentional disturbance and to create a pathway by which a legal derogation and exemption may be designed in consultation with the National Parks and Wildlife Service. This is a service of The Department of Culture, Heritage, and Gaeltacht Affairs if impacts are likely to be severe.

Prior to further significant changes to a site it may be necessary to ensure that there will be no impact upon protected species, such as all of Ireland's bats. Bats of less common species may be present within a site unbeknownst to owners and residents and there is a requirement to undertake a survey by suitably qualified ecologists with the appropriate equipment to determine which species are present. Should bats be present, knowledge of the species concerned and the potential consequences of the modifications of the site can assist in identifying measures to alleviate the negative effects of these changes. This is a legal requirement given the protection level for these species to ensure that the nine species' conservation status are not reduced by major changes to an area.

Surveying for bats in June is a very suitable time to address the usage of a site during the breeding period and the foraging pregnant or lactating females have a very high food demand to provide growth and milk for the single young.

There are no buildings within the site but there are several mature trees along the hedgerow of the fields concerned. These may serve as bat roosts especially for species such as Leisler's bat, Daubenton's bat etc. and for non-breeding pipistrelles.

The 2020 data can be compared to data from 2018 prior to modifications to tree cover in some areas of the site to determine how bat activity has dealt with such changes.

## **Methodology**

The survey was undertaken on June 23<sup>rd</sup> 2020 with the aid of an Echometer 3 (EM3) handheld "real time expansion" (a term used by the manufacturer to explain that the equipment records all signals across the ultrasonic range and then speeds up the signal to create a real-time equivalent of the sounds produced by any bats encountered) bat detector and a Songmeter Mini (Mini) ultrasonic all-weather recorder. The Mini records all ultrasound from a set start time (in this case, 30 minutes before sunset up to sunrise).

The EM3 was held for the entire active survey while the Mini was positioned along tree cover towards the River Liffey for most of the survey period, being re-located approximately forty minutes before sunrise to evaluate the level of activity along internal hedgerows. The Mini recorded from 30 minutes prior to sunrise and up to sunrise and gives a background to the activity across an entire night. An examination of available information from Bat Conservation Ireland, previous data from the site and survey results from other areas of Clane was undertaken to compile a list of most likely species in addition to the evaluation of the habitat and known distributions of Irish species.

### *Survey constraints*

The survey was undertaken at a highly suitable period to identify feeding and commuting bats and the activity of breeding bats. All bat species are within their breeding roost and bat activity of pregnant or lactating females is very high overall.

## **Existing Environment**

### **Bat fauna of Capdoo Commons, Clane**

#### **Roosting species** None

No bats emerged from any tree within the site. Bat activity in the western / northwestern area of the site, adjoining apartments at Brookland was very high and the pattern of bat appearance and disappearance in this area indicates that there is a breeding population of common pipistrelles within the buildings in this area. There may also be a soprano pipistrelle here or in neighbouring buildings. Leisler's bat activity suggests that there is a roost of this species for which the site is a feeding area but given that this species may travel large distances, it is unknown how close this roost lies to the site.

#### **Bat species feeding or commuting within the site**

Common pipistrelle                      *Pipistrellus pipistrellus*

Soprano pipistrelle                      *Pipistrellus pygmaeus*

Leisler's bat                                *Nyctalus leisleri*

Daubenton's bat                      *Myotis daubentonii* (see Table 3)  
(not recorded within the site  
in 2020)

Nathusius' pipistrelle\*                      *Pipistrellus nathusii*\*  
Possible passing bat but  
may be low Common pipistrelle signal

Bat activity within the site was high in June 2020 (see Appendices for a representation of the bat activity, Tables 1 to 5 and Figures 7 and 8 and a summary of bat signals recorded by the active and passive surveying) and bats were noted in all fields of the proposal. Bat activity commenced with Leisler's bat activity and this species was also the last seen prior to sunrise.

Based on the activity pattern, there is clearly a common pipistrelle roost and possibly a soprano pipistrelle roost commuting and feeding within the site and adjoining lands. The bats entered the lands from the west and exited the lands in this area.

Many bats were noted flying along the hedgerow running approximately east-west in the western section of the site especially to return to a roost in buildings associated with Brooklands apartments and possibly other houses in this area.

Bat activity was higher in 2020 within the formerly wooded field (still partially wooded) than in the young wood / scrub in 2018. Bats feed in woodland clearings, woodland rides and paths and woodland edge rather than in dense woodland and several bat species are availing of this area.

There is no obvious roost potential within the trees examined in the site and no bats were noted to emerge or return to a tree. There is some potential for individual bats in some trees but no evidence of bat presence.

## **Proposed Development at Capdoo Commons**

This project consists of an application for a Strategic Housing Development by Westar Investments Limited (the applicant) for a new residential development on lands measuring approximately 10.36 hectares at Capdoo & Abbeylands, Celbridge Road, Clane, Co. Kildare. The application is for a development that includes 333 dwellings consisting of: 121 no. 2, 3 & 4 bedroom housing units, 144 no. 1, 2 & 3 bedroom apartments, 68 no. 1, 2 & 3 bedroom duplex & maisonette type units, a crèche and a public park adjacent to the River Liffey with 3 no. vehicular/pedestrian accesses and site, landscaping and associated infrastructural works. The subject site is situated on the eastern side of Regional Road R403 in the eastern environs of Clane Town, c. 650m from the Town Centre'.

The overall site abuts agricultural landholdings on its northern, eastern (partially) and western (partially) site boundaries, whilst existing residential developments, in the form of The Brooklands, Abbey Park and Alexander Walk Housing Estates, are located to the immediate south and partially abut the subject sites eastern and western boundaries. The overall site has a significant frontage, extending to c. 225 metre, to the River Liffey on its eastern boundary.



**Figure 1: Location of the overall site relative to the centre of Clane village**



**Figure 2: Trees and vegetation cover within the overall SHD layout**

## **Potential Impacts**

### **Roost Loss and Injury or Death of bats**

Tree felling within the site creates the only risk of roost loss and injury to bats without mitigation (if not examined prior to such operations). Bats often require a number of minutes to become active to avoid the risk of injury from mechanical destruction of trees, chainsaws or falling trees. None of the trees within the site were considered to offer high bat roost potential based on bat activity and the features visible within the trees within the site.

### **Loss of habitat**

There will be a loss of mature trees, hedgerow, pasture and scrub that will reduce insect abundance and feeding and commuting corridors. Bats were noted to avail of treelines and hedgerow throughout the site and numerous common pipistrelle used hedgerow both to feed and disperse from their roost.

### **Disturbance from lighting**

Lighting will be increased for two different functions: 1) Access and safety 2) Security and policing. The former is to allow ease of use at night while the latter ensures a perceived higher security level. There is a low level of light pollution from a car dealership on the nearest major road, but overall lighting does not enter the site at present.

Lighting may affect bat species, in particular, light-intolerant bat species during foraging and if directed at emergence points would affect all bat species, even those that will feed in illuminated areas.

## **Mitigation**

### **Tree felling**

Mature trees with bat roost potential should preferably be felled in late autumn. This would include the months of September and October. Should the trees be felled in winter, an evaluation of the trees shall be carried out by a bat specialist prior to felling. Surveying in winter may not be possible by way of a bat detector assessment and a visual examination undertaken by a licensed bat specialist would be required. This would most probably necessitate access to height and the use of a fibrescope if any trees are considered to have good potential for hibernation.

### **Lighting**

Lighting must be designed that will limit overspill from the required area for illumination and prevent light pollution. This should aim to avoid mature trees and the river vegetation in particular but must also avoid illumination of potential roost sites such as the buildings to the

north of the site. LED is the most energy efficient source available and wherever a permanent source of night lighting is unessential, it should be motion-activated.

- Dark corridor for movement of bats along the grounds of the site. Lighting should be directed downwards away from the treetops.
- All luminaires shall lack UV elements when manufactured and shall be LED
- A warm white spectrum (ideally <2700Kelvin) shall be adopted to reduce blue light component
- Luminaires shall feature peak wavelengths higher than 550nm
- Tree crowns in the adjacent lands shall remain unilluminated
- Planting shall provide areas of darkness suitable for bats to feed and commute through the site.
- Trees must not be illuminated as this would prevent their use for feeding by bats. Any pedestrian lighting should seek to create no greater than a 3-lux level on the tree canopy and shall not illuminate the River Liffey. No lighting shall be directed towards any area where bat boxes are present or where feeding and commuting would be affected along the river.
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- The areas indicated by green boxes in Figure 6 are areas where lighting is most sensitive and must not be directly illuminated.
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- The final installed lighting for the site shall be examined by a bat specialist upon completion and modifications to ensure that the river and treelines are unlit shall be implemented if required. This may involve cowls, intensity reduction or other adjustments.

### **Bat boxes**

3 x 2F Schwegler boxes shall be erected within unlit areas away from traffic and likely disturbance. Mature trees would be very suitable. These must be no less than 3 metres above ground in uncluttered areas facing in a southerly direction. Boxes may be attached to buildings, trees or poles.

### **Planting of vegetation**

Species to provide nectar for night-flying insects such as moths should be included in the planting mix. This could include species such as dog rose, night scented stock, honeysuckle and *Clematis* and other species attractive to moths and other nocturnal insects. Species from the All-Ireland Pollinators Plan should also be included.

## **Impacts of the Development following Mitigation**

There will be a loss of green area and agricultural foraging (horses, cows, sheep) from the fields and increased concrete and built environment. This will lead to some loss of feeding. The proximity of the River Liffey and the park and green area will provide continued feeding. It is proposed to use light fittings emitting <2,700 Kelvin throughout the site specifically targeted at limiting light pollution for bats and other wildlife. Lighting along housing &

apartments running parallel with the River Liffey has been designed in order that the 1.5 lux contour stops at the path edge well away from river side while allowing for the area around the houses, footpaths & roadways to be lit properly.

This will result in a slight negative long-term impact to bats.

## APPENDICES



**Figure 3: Bat activity, Capdoo Commons proposed housing site after sunset 23<sup>rd</sup> June 2020**

### Legend

Blue paddle= soprano pipistrelle

Green paddle=common pipistrelle

Yellow paddle = Leisler's bat

The static monitor (red box in Figure 4 overleaf) recorded common, soprano pipistrelle and Leisler's bat

(white box) recorded common, soprano pipistrelles and Leisler's bat

(red box in Figure 4) recorded common, soprano pipistrelles Nathusius' pipistrelle (possible), Leisler's and

Daubenton's bats





**Figure 4: Bat activity, Capdoo Commons proposed housing site prior to sunrise 24<sup>th</sup> June 2020**

*Legend*

*Yellow paddle = Leisler's bat*

*Blue paddle = soprano pipistrelle*

*Green paddle = common pipistrelle*

The static monitor (red box) recorded common, soprano pipistrelle and Leisler's bat



**Figure 5 : Bat activity at Capdoo Commons Abbeylands 15<sup>th</sup> - 16<sup>th</sup> August 2018**

*Legend*

*Blue paddle soprano pipistrelle*

*Green paddle=common pipistrelle*

*Yellow paddle=Leisler's bat (starred also denotes soprano pipistrelle present)*

The static monitor (red box in Figure 4) recorded common, soprano pipistrelle and Leisler's bat



**Figure 6: Lighting proposed for scheme**

No direct illumination shall occur within these bands to allow bats to move between roosts and feeding areas and to allow bat foraging in green areas

**Table 1: Bat data recorded on the Songmeter Mini throughout the night of 23<sup>rd</sup> June 2020**

Date	Time	Auto Id*	Pulses	Manual Id
23/06/2020	22:16:22	Leisler's Bat	8	
23/06/2020	22:16:46	Leisler's Bat	48	Leisler's Bat
23/06/2020	22:18:36	Leisler's Bat	27	Leisler's Bat
23/06/2020	22:19:13	Leisler's Bat	26	Leisler's Bat
23/06/2020	22:23:18	Leisler's Bat	9	
23/06/2020	22:23:30	Leisler's Bat	2	
23/06/2020	22:23:40	Leisler's Bat	13	
23/06/2020	22:23:59	Leisler's Bat	3	
23/06/2020	22:27:45	Leisler's Bat	71	Leisler's Bat
23/06/2020	22:28:00	Leisler's Bat	55	Leisler's Bat
23/06/2020	22:29:48	Rhihip	29	Soprano Pipistrelle Leisler's Bat
23/06/2020	22:30:20	Leisler's Bat	49	Leisler's Bat
23/06/2020	22:33:25	Leisler's Bat	25	Leisler's Bat
23/06/2020	22:33:47	Leisler's Bat	43	Leisler's Bat
23/06/2020	22:34:03	Leisler's Bat	56	Leisler's Bat
23/06/2020	22:34:18	Leisler's Bat	61	Leisler's Bat
23/06/2020	22:34:33	Leisler's Bat	63	Leisler's Bat
23/06/2020	22:34:49	Leisler's Bat	9	
23/06/2020	22:35:41	Noid	29	
23/06/2020	22:35:53	Soprano Pipistrelle	50	
23/06/2020	22:36:08	Leisler's Bat	2	
23/06/2020	22:36:23	Leisler's Bat	3	
23/06/2020	22:37:08	Soprano Pipistrelle	20	
23/06/2020	22:37:15	Soprano Pipistrelle	3	
23/06/2020	22:38:05	Leisler's Bat	20	
23/06/2020	22:38:18	Common Pipistrelle	31	
23/06/2020	22:39:21	Noid	3	
23/06/2020	22:39:39	Leisler's Bat	10	
23/06/2020	22:40:26	Leisler's Bat	5	
23/06/2020	22:40:45	Soprano Pipistrelle	109	
23/06/2020	22:41:00	Common Pipistrelle	6	
23/06/2020	22:41:08	Common Pipistrelle	84	
23/06/2020	22:41:38	Noid	141	
23/06/2020	22:41:53	Noid	123	
23/06/2020	22:42:08	Noid	130	
23/06/2020	22:42:24	Leisler's Bat	77	Common Pipistrelle Leisler's Bat
23/06/2020	22:42:39	Leisler's Bat	95	Common Pipistrelle Soprano Pipistrelle Leisler's Bat
23/06/2020	22:43:01	Soprano Pipistrelle	80	
23/06/2020	22:43:16	Common Pipistrelle	131	
23/06/2020	22:43:32	Common Pipistrelle	125	
23/06/2020	22:43:47	Common Pipistrelle	160	
23/06/2020	22:44:02	Common Pipistrelle	44	
23/06/2020	22:44:37	Leisler's Bat	28	Leisler's Bat
23/06/2020	22:44:53	Leisler's Bat	54	Leisler's Bat
23/06/2020	22:45:08	Leisler's Bat	38	Leisler's Bat
23/06/2020	22:46:36	Soprano Pipistrelle	35	
23/06/2020	22:47:08	Common Pipistrelle	74	
23/06/2020	22:47:28	Soprano Pipistrelle	6	
23/06/2020	22:48:04	Soprano Pipistrelle	64	
23/06/2020	22:50:01	Leisler's Bat	21	

23/06/2020	22:50:38	Common Pipistrelle	153	Common Pipistrelle
23/06/2020	22:50:53	Common Pipistrelle	29	
23/06/2020	22:51:04	Common Pipistrelle	32	
23/06/2020	22:51:31	Common Pipistrelle	92	
23/06/2020	22:51:48	Common Pipistrelle	87	
23/06/2020	22:52:51	Common Pipistrelle	105	
23/06/2020	22:53:07	Common Pipistrelle	88	
23/06/2020	22:53:43	Common Pipistrelle	31	
23/06/2020	22:53:50	Common Pipistrelle	36	
23/06/2020	22:53:58	Common Pipistrelle	73	
23/06/2020	22:54:09	Soprano Pipistrelle	205	
23/06/2020	22:54:25	Soprano Pipistrelle	259	
23/06/2020	22:54:41	Soprano Pipistrelle	188	
23/06/2020	22:54:58	Soprano Pipistrelle	219	
23/06/2020	22:55:13	Soprano Pipistrelle	174	
23/06/2020	22:55:28	Soprano Pipistrelle	242	
23/06/2020	22:55:44	Soprano Pipistrelle	172	
23/06/2020	22:55:59	Soprano Pipistrelle	220	
23/06/2020	22:56:14	Soprano Pipistrelle	151	
23/06/2020	22:56:30	Common Pipistrelle	203	
23/06/2020	22:56:45	Soprano Pipistrelle	266	
23/06/2020	22:57:00	Soprano Pipistrelle	159	
23/06/2020	22:57:16	Common Pipistrelle	175	
23/06/2020	22:57:31	Common Pipistrelle	208	
23/06/2020	22:57:46	Common Pipistrelle	196	
23/06/2020	22:58:02	Common Pipistrelle	244	
23/06/2020	22:58:17	Soprano Pipistrelle	255	
23/06/2020	22:58:32	Common Pipistrelle	238	
23/06/2020	22:58:48	Common Pipistrelle	203	
23/06/2020	22:59:03	Noid	196	
23/06/2020	22:59:18	Noid	153	
23/06/2020	22:59:34	Soprano Pipistrelle	238	
23/06/2020	22:59:49	Soprano Pipistrelle	241	
23/06/2020	23:00:04	Common Pipistrelle	260	
23/06/2020	23:00:20	Common Pipistrelle	230	
23/06/2020	23:00:35	Common Pipistrelle	235	
23/06/2020	23:00:50	Noid	244	
23/06/2020	23:01:06	Soprano Pipistrelle	232	
23/06/2020	23:01:21	Soprano Pipistrelle	260	
23/06/2020	23:01:37	Soprano Pipistrelle	255	
23/06/2020	23:01:52	Noid	226	
23/06/2020	23:02:08	Soprano Pipistrelle	238	
23/06/2020	23:02:23	Soprano Pipistrelle	210	
23/06/2020	23:02:39	Soprano Pipistrelle	249	
23/06/2020	23:02:54	Soprano Pipistrelle	234	
23/06/2020	23:03:09	Soprano Pipistrelle	219	
23/06/2020	23:03:25	Soprano Pipistrelle	190	
23/06/2020	23:03:40	Soprano Pipistrelle	202	
23/06/2020	23:03:55	Soprano Pipistrelle	245	
23/06/2020	23:04:11	Soprano Pipistrelle	276	
23/06/2020	23:04:26	Noid	225	
23/06/2020	23:04:41	Soprano Pipistrelle	209	

23/06/2020	23:04:57	Soprano Pipistrelle	225	
23/06/2020	23:05:12	Soprano Pipistrelle	197	
23/06/2020	23:05:28	Soprano Pipistrelle	207	
23/06/2020	23:05:44	Soprano Pipistrelle	207	
23/06/2020	23:06:00	Noid	201	
23/06/2020	23:06:15	Soprano Pipistrelle	239	
23/06/2020	23:06:30	Common Pipistrelle	180	
23/06/2020	23:06:46	Common Pipistrelle	140	
23/06/2020	23:07:01	Soprano Pipistrelle	225	
23/06/2020	23:07:16	Noid	159	
23/06/2020	23:07:32	Soprano Pipistrelle	177	
23/06/2020	23:07:47	Soprano Pipistrelle	181	
23/06/2020	23:08:02	Soprano Pipistrelle	254	
23/06/2020	23:08:18	Common Pipistrelle	242	
23/06/2020	23:08:33	Soprano Pipistrelle	214	
23/06/2020	23:08:48	Soprano Pipistrelle	224	
23/06/2020	23:09:04	Soprano Pipistrelle	242	
23/06/2020	23:09:19	Soprano Pipistrelle	232	
23/06/2020	23:09:34	Soprano Pipistrelle	229	
23/06/2020	23:09:50	Soprano Pipistrelle	256	
23/06/2020	23:10:05	Soprano Pipistrelle	280	
23/06/2020	23:10:21	Noid	254	
23/06/2020	23:10:36	Soprano Pipistrelle	269	
23/06/2020	23:10:51	Soprano Pipistrelle	208	
23/06/2020	23:11:07	Soprano Pipistrelle	217	
23/06/2020	23:11:22	Soprano Pipistrelle	183	
23/06/2020	23:11:37	Soprano Pipistrelle	230	
23/06/2020	23:11:54	Soprano Pipistrelle	262	
23/06/2020	23:12:09	Soprano Pipistrelle	252	
23/06/2020	23:12:24	Soprano Pipistrelle	213	
23/06/2020	23:12:40	Soprano Pipistrelle	285	
23/06/2020	23:12:55	Soprano Pipistrelle	261	
23/06/2020	23:13:10	Soprano Pipistrelle	232	
23/06/2020	23:13:25	Soprano Pipistrelle	234	
23/06/2020	23:13:41	Soprano Pipistrelle	221	
23/06/2020	23:13:56	Soprano Pipistrelle	232	
23/06/2020	23:14:11	Soprano Pipistrelle	248	Soprano Pipistrelle
23/06/2020	23:14:27	Soprano Pipistrelle	251	
23/06/2020	23:14:42	Soprano Pipistrelle	267	
23/06/2020	23:14:57	Soprano Pipistrelle	248	
23/06/2020	23:15:13	Soprano Pipistrelle	230	
23/06/2020	23:15:28	Soprano Pipistrelle	282	
23/06/2020	23:15:43	Soprano Pipistrelle	252	
23/06/2020	23:15:59	Soprano Pipistrelle	273	
23/06/2020	23:16:14	Soprano Pipistrelle	12	
23/06/2020	23:16:18	Soprano Pipistrelle	198	
23/06/2020	23:16:34	Soprano Pipistrelle	225	
23/06/2020	23:16:49	Soprano Pipistrelle	270	
23/06/2020	23:17:04	Soprano Pipistrelle	235	
23/06/2020	23:17:20	Soprano Pipistrelle	264	Soprano Pipistrelle
23/06/2020	23:17:35	Soprano Pipistrelle	224	
23/06/2020	23:17:51	Soprano Pipistrelle	224	

23/06/2020	23:18:06	Soprano Pipistrelle	203	
23/06/2020	23:18:22	Soprano Pipistrelle	250	
23/06/2020	23:18:37	Soprano Pipistrelle	244	
23/06/2020	23:18:52	Soprano Pipistrelle	252	
23/06/2020	23:19:08	Soprano Pipistrelle	247	
23/06/2020	23:19:23	Soprano Pipistrelle	186	
23/06/2020	23:19:38	Soprano Pipistrelle	224	
23/06/2020	23:19:54	Soprano Pipistrelle	297	Soprano Pipistrelle
23/06/2020	23:20:09	Soprano Pipistrelle	263	
23/06/2020	23:20:25	Soprano Pipistrelle	251	
23/06/2020	23:20:40	Soprano Pipistrelle	257	
23/06/2020	23:20:55	Soprano Pipistrelle	237	
23/06/2020	23:21:11	Soprano Pipistrelle	267	
23/06/2020	23:21:26	Soprano Pipistrelle	270	Soprano Pipistrelle
23/06/2020	23:21:41	Soprano Pipistrelle	282	
23/06/2020	23:21:57	Soprano Pipistrelle	230	
23/06/2020	23:22:12	Soprano Pipistrelle	227	
23/06/2020	23:22:28	Soprano Pipistrelle	279	
23/06/2020	23:22:43	Soprano Pipistrelle	256	
23/06/2020	23:22:58	Soprano Pipistrelle	276	
23/06/2020	23:23:14	Soprano Pipistrelle	245	
23/06/2020	23:23:29	Soprano Pipistrelle	272	Soprano Pipistrelle
23/06/2020	23:23:44	Soprano Pipistrelle	274	
23/06/2020	23:24:00	Soprano Pipistrelle	242	
23/06/2020	23:24:15	Soprano Pipistrelle	261	
23/06/2020	23:24:30	Soprano Pipistrelle	240	
23/06/2020	23:24:46	Soprano Pipistrelle	222	
23/06/2020	23:25:01	Soprano Pipistrelle	222	
23/06/2020	23:25:17	Soprano Pipistrelle	263	
23/06/2020	23:25:32	Soprano Pipistrelle	194	
23/06/2020	23:25:47	Soprano Pipistrelle	188	
23/06/2020	23:26:03	Soprano Pipistrelle	187	
23/06/2020	23:26:18	Soprano Pipistrelle	255	
23/06/2020	23:26:33	Soprano Pipistrelle	237	
23/06/2020	23:26:49	Soprano Pipistrelle	312	Soprano Pipistrelle
23/06/2020	23:27:04	Soprano Pipistrelle	231	
23/06/2020	23:27:20	Soprano Pipistrelle	222	
23/06/2020	23:27:35	Soprano Pipistrelle	223	
23/06/2020	23:27:50	Soprano Pipistrelle	186	
23/06/2020	23:28:06	Soprano Pipistrelle	241	
23/06/2020	23:28:21	Soprano Pipistrelle	230	
23/06/2020	23:28:37	Soprano Pipistrelle	198	
23/06/2020	23:28:52	Soprano Pipistrelle	249	
23/06/2020	23:29:07	Soprano Pipistrelle	251	
23/06/2020	23:29:23	Soprano Pipistrelle	274	Soprano Pipistrelle
23/06/2020	23:29:38	Soprano Pipistrelle	289	Soprano Pipistrelle
23/06/2020	23:29:53	Soprano Pipistrelle	221	
23/06/2020	23:30:09	Soprano Pipistrelle	244	
23/06/2020	23:30:24	Soprano Pipistrelle	244	
23/06/2020	23:30:39	Soprano Pipistrelle	283	
23/06/2020	23:30:55	Soprano Pipistrelle	298	Soprano Pipistrelle
23/06/2020	23:31:10	Soprano Pipistrelle	286	Soprano Pipistrelle

23/06/2020	23:31:25	Soprano Pipistrelle	279	
23/06/2020	23:31:41	Soprano Pipistrelle	249	
23/06/2020	23:31:56	Soprano Pipistrelle	287	
23/06/2020	23:32:11	Soprano Pipistrelle	269	
23/06/2020	23:32:27	Soprano Pipistrelle	264	
23/06/2020	23:32:42	Soprano Pipistrelle	288	
23/06/2020	23:32:58	Soprano Pipistrelle	250	
23/06/2020	23:33:13	Soprano Pipistrelle	248	
23/06/2020	23:33:28	Soprano Pipistrelle	228	
23/06/2020	23:33:44	Soprano Pipistrelle	240	
23/06/2020	23:33:59	Soprano Pipistrelle	248	
23/06/2020	23:34:14	Soprano Pipistrelle	240	
23/06/2020	23:34:30	Soprano Pipistrelle	249	
23/06/2020	23:34:45	Soprano Pipistrelle	236	
23/06/2020	23:35:01	Soprano Pipistrelle	226	
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23/06/2020	23:35:32	Soprano Pipistrelle	239	
23/06/2020	23:35:47	Soprano Pipistrelle	257	
23/06/2020	23:36:02	Soprano Pipistrelle	235	
23/06/2020	23:36:18	Soprano Pipistrelle	246	
23/06/2020	23:36:33	Soprano Pipistrelle	243	
23/06/2020	23:36:48	Soprano Pipistrelle	253	
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23/06/2020	23:38:51	Common Pipistrelle	215	
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23/06/2020	23:39:22	Soprano Pipistrelle	243	
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23/06/2020	23:40:23	Soprano Pipistrelle	252	
23/06/2020	23:40:39	Soprano Pipistrelle	191	
23/06/2020	23:40:54	Soprano Pipistrelle	257	
23/06/2020	23:41:09	Soprano Pipistrelle	240	
23/06/2020	23:41:40	Soprano Pipistrelle	205	
23/06/2020	23:41:55	Soprano Pipistrelle	231	
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23/06/2020	23:42:26	Soprano Pipistrelle	261	
23/06/2020	23:42:41	Soprano Pipistrelle	235	
23/06/2020	23:42:57	Soprano Pipistrelle	229	
23/06/2020	23:43:12	Soprano Pipistrelle	229	
23/06/2020	23:43:27	Soprano Pipistrelle	255	
23/06/2020	23:43:43	Soprano Pipistrelle	222	
23/06/2020	23:43:58	Soprano Pipistrelle	266	
23/06/2020	23:44:13	Soprano Pipistrelle	234	
23/06/2020	23:44:29	Soprano Pipistrelle	191	
23/06/2020	23:44:44	Soprano Pipistrelle	215	



23/06/2020	23:44:59	Soprano Pipistrelle	240	
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23/06/2020	23:45:30	Soprano Pipistrelle	240	
23/06/2020	23:45:45	Soprano Pipistrelle	228	
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23/06/2020	23:46:16	Soprano Pipistrelle	251	
23/06/2020	23:46:31	Soprano Pipistrelle	271	
23/06/2020	23:46:47	Soprano Pipistrelle	273	
23/06/2020	23:47:02	Soprano Pipistrelle	255	
23/06/2020	23:47:17	Soprano Pipistrelle	215	
23/06/2020	23:47:33	Soprano Pipistrelle	233	
23/06/2020	23:47:48	Soprano Pipistrelle	223	
23/06/2020	23:48:03	Soprano Pipistrelle	185	
23/06/2020	23:48:19	Soprano Pipistrelle	216	
23/06/2020	23:48:35	Common Pipistrelle	193	
23/06/2020	23:48:50	Common Pipistrelle	167	
23/06/2020	23:49:06	Soprano Pipistrelle	219	
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23/06/2020	23:49:36	Soprano Pipistrelle	191	
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23/06/2020	23:50:22	Soprano Pipistrelle	220	
23/06/2020	23:50:38	Soprano Pipistrelle	246	
23/06/2020	23:50:53	Soprano Pipistrelle	246	
23/06/2020	23:51:08	Noid	229	
23/06/2020	23:51:24	Soprano Pipistrelle	196	
23/06/2020	23:51:39	Soprano Pipistrelle	196	
23/06/2020	23:51:55	Soprano Pipistrelle	176	
23/06/2020	23:52:10	Soprano Pipistrelle	164	
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23/06/2020	23:52:41	Soprano Pipistrelle	177	
23/06/2020	23:52:58	Common Pipistrelle	159	
23/06/2020	23:53:13	Noid	171	
23/06/2020	23:53:28	Soprano Pipistrelle	185	
23/06/2020	23:53:44	Common Pipistrelle	181	
23/06/2020	23:53:59	Soprano Pipistrelle	142	
23/06/2020	23:54:15	Common Pipistrelle	175	
23/06/2020	23:54:30	Soprano Pipistrelle	229	
23/06/2020	23:54:45	Soprano Pipistrelle	207	
23/06/2020	23:55:00	Soprano Pipistrelle	167	
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23/06/2020	23:56:03	Soprano Pipistrelle	176	
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23/06/2020	23:56:33	Soprano Pipistrelle	209	
23/06/2020	23:56:49	Soprano Pipistrelle	217	
23/06/2020	23:57:04	Common Pipistrelle	195	
23/06/2020	23:57:20	Noid	176	
23/06/2020	23:57:35	Noid	188	
23/06/2020	23:57:50	Soprano Pipistrelle	185	
23/06/2020	23:58:06	Common Pipistrelle	201	

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23/06/2020	23:58:36	Soprano Pipistrelle	190	
23/06/2020	23:58:52	Soprano Pipistrelle	141	
23/06/2020	23:59:07	Soprano Pipistrelle	189	
23/06/2020	23:59:23	Soprano Pipistrelle	182	
23/06/2020	23:59:38	Soprano Pipistrelle	146	
23/06/2020	23:59:54	Soprano Pipistrelle	68	
24/06/2020	00:00:03	Common Pipistrelle	182	
24/06/2020	00:00:18	Common Pipistrelle	152	
24/06/2020	00:00:33	Common Pipistrelle	166	Common Pipistrelle Soprano Pipistrelle
24/06/2020	00:00:49	Common Pipistrelle	174	
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24/06/2020	00:01:20	Soprano Pipistrelle	171	
24/06/2020	00:01:36	Soprano Pipistrelle	147	
24/06/2020	00:01:51	Soprano Pipistrelle	172	
24/06/2020	00:02:06	Common Pipistrelle	155	
24/06/2020	00:02:22	Common Pipistrelle	171	
24/06/2020	00:02:37	Soprano Pipistrelle	172	
24/06/2020	00:02:52	Soprano Pipistrelle	134	
24/06/2020	00:03:08	Soprano Pipistrelle	147	
24/06/2020	00:03:23	Common Pipistrelle	181	
24/06/2020	00:03:38	Common Pipistrelle	183	
24/06/2020	00:03:54	Soprano Pipistrelle	132	
24/06/2020	00:04:09	Soprano Pipistrelle	155	
24/06/2020	00:04:24	Noid	166	
24/06/2020	00:04:40	Noid	223	
24/06/2020	00:04:55	Common Pipistrelle	186	
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24/06/2020	00:05:26	Soprano Pipistrelle	172	
24/06/2020	00:05:41	Soprano Pipistrelle	241	
24/06/2020	00:05:56	Common Pipistrelle	216	Common Pipistrelle Soprano Pipistrelle
24/06/2020	00:06:12	Common Pipistrelle	107	
24/06/2020	00:06:27	Soprano Pipistrelle	172	
24/06/2020	00:06:42	Common Pipistrelle	188	Common Pipistrelle
24/06/2020	00:06:58	Common Pipistrelle	198	
24/06/2020	00:07:13	Soprano Pipistrelle	180	
24/06/2020	00:07:29	Soprano Pipistrelle	128	
24/06/2020	00:07:47	Common Pipistrelle	129	
24/06/2020	00:08:02	Common Pipistrelle	143	
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24/06/2020	00:08:33	Common Pipistrelle	141	
24/06/2020	00:08:49	Common Pipistrelle	132	
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24/06/2020	00:09:50	Soprano Pipistrelle	241	
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24/06/2020	00:11:07	Soprano Pipistrelle	224	
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24/06/2020	00:12:39	Noid	187	
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24/06/2020	00:13:10	Common Pipistrelle	224	Common Pipistrelle Soprano Pipistrelle
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24/06/2020	00:14:42	Soprano Pipistrelle	208	
24/06/2020	00:14:57	Soprano Pipistrelle	220	
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24/06/2020	00:15:28	Soprano Pipistrelle	190	
24/06/2020	00:15:44	Soprano Pipistrelle	199	
24/06/2020	00:15:59	Soprano Pipistrelle	204	
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24/06/2020	00:16:29	Soprano Pipistrelle	195	
24/06/2020	00:16:45	Soprano Pipistrelle	147	
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24/06/2020	00:17:08	Common Pipistrelle	139	
24/06/2020	00:17:23	Common Pipistrelle	205	
24/06/2020	00:17:38	Common Pipistrelle	120	
24/06/2020	00:17:54	Common Pipistrelle	123	
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24/06/2020	00:21:45	Soprano Pipistrelle	240	
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24/06/2020	00:22:15	Soprano Pipistrelle	240	
24/06/2020	00:22:30	Soprano Pipistrelle	266	
24/06/2020	00:22:46	Soprano Pipistrelle	233	
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24/06/2020	00:23:17	Soprano Pipistrelle	229	
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24/06/2020	00:23:47	Soprano Pipistrelle	234	
24/06/2020	00:24:03	Soprano Pipistrelle	276	Soprano Pipistrelle
24/06/2020	00:24:18	Soprano Pipistrelle	239	
24/06/2020	00:24:33	Soprano Pipistrelle	241	

24/06/2020	00:24:49	Soprano Pipistrelle	249	
24/06/2020	00:25:04	Soprano Pipistrelle	243	
24/06/2020	00:25:19	Soprano Pipistrelle	280	Soprano Pipistrelle
24/06/2020	00:25:35	Soprano Pipistrelle	237	
24/06/2020	00:25:50	Soprano Pipistrelle	235	
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24/06/2020	00:26:21	Soprano Pipistrelle	259	
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24/06/2020	00:27:37	Soprano Pipistrelle	269	Soprano Pipistrelle
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24/06/2020	00:33:46	Soprano Pipistrelle	242	
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24/06/2020	00:34:17	Soprano Pipistrelle	306	Soprano Pipistrelle
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24/06/2020	00:49:58	Common Pipistrelle	161	
24/06/2020	00:50:13	Soprano Pipistrelle	222	
24/06/2020	00:50:29	Soprano Pipistrelle	227	
24/06/2020	00:50:44	Soprano Pipistrelle	224	
24/06/2020	00:50:59	Common Pipistrelle	159	
24/06/2020	00:51:14	Common Pipistrelle	131	
24/06/2020	00:51:30	Soprano Pipistrelle	221	

24/06/2020	00:51:45	Common Pipistrelle	190	
24/06/2020	00:52:01	Common Pipistrelle	186	
24/06/2020	00:52:16	Common Pipistrelle	172	
24/06/2020	00:52:31	Soprano Pipistrelle	178	
24/06/2020	00:52:47	Soprano Pipistrelle	262	
24/06/2020	00:53:02	Noid	238	
24/06/2020	00:53:17	Soprano Pipistrelle	232	
24/06/2020	00:53:33	Noid	203	
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24/06/2020	00:54:19	Common Pipistrelle	206	
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24/06/2020	00:54:51	Soprano Pipistrelle	164	
24/06/2020	00:55:07	Soprano Pipistrelle	200	
24/06/2020	00:55:22	Noid	187	
24/06/2020	00:55:37	Common Pipistrelle	159	
24/06/2020	00:55:53	Common Pipistrelle	173	
24/06/2020	00:56:08	Noid	186	
24/06/2020	00:56:23	Soprano Pipistrelle	142	
24/06/2020	00:56:39	Soprano Pipistrelle	108	
24/06/2020	00:56:54	Soprano Pipistrelle	165	
24/06/2020	00:57:10	Noid	123	
24/06/2020	00:57:25	Soprano Pipistrelle	164	
24/06/2020	00:57:40	Noid	158	
24/06/2020	00:57:56	Soprano Pipistrelle	148	
24/06/2020	00:58:11	Common Pipistrelle	18	
24/06/2020	00:58:19	Soprano Pipistrelle	143	
24/06/2020	00:58:41	Soprano Pipistrelle	173	
24/06/2020	00:58:56	Noid	144	
24/06/2020	00:59:12	Common Pipistrelle	188	
24/06/2020	00:59:27	Soprano Pipistrelle	119	
24/06/2020	00:59:43	Soprano Pipistrelle	178	
24/06/2020	00:59:58	Soprano Pipistrelle	147	
24/06/2020	01:00:13	Common Pipistrelle	168	
24/06/2020	01:00:29	Soprano Pipistrelle	184	
24/06/2020	01:00:44	Soprano Pipistrelle	114	
24/06/2020	01:00:59	Soprano Pipistrelle	119	
24/06/2020	01:01:15	Noid	134	
24/06/2020	01:01:31	Soprano Pipistrelle	166	
24/06/2020	01:01:46	Noid	152	
24/06/2020	01:02:02	Noid	126	
24/06/2020	01:02:17	Noid	181	
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24/06/2020	01:02:49	Common Pipistrelle	200	
24/06/2020	01:03:05	Common Pipistrelle	185	
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24/06/2020	01:03:35	Noid	190	
24/06/2020	01:03:51	Common Pipistrelle	129	
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24/06/2020	01:04:35	Noid	176	
24/06/2020	01:04:51	Soprano Pipistrelle	178	

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24/06/2020	01:06:38	Soprano Pipistrelle	230	
24/06/2020	01:06:53	Noid	218	
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24/06/2020	01:35:18	Pipnat	165	Common Pipistrelle
24/06/2020	01:35:33	Pipnat	123	Common Pipistrelle
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24/06/2020	01:36:06	Pipnat	161	Common Pipistrelle Soprano Pipistrelle
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24/06/2020	01:36:38	Pipnat	156	Common Pipistrelle Soprano Pipistrelle
24/06/2020	01:36:53	Common Pipistrelle	151	
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24/06/2020	01:56:32	Pipnat	148	Common Pipistrelle
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24/06/2020	01:56:59	Noid	184	
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24/06/2020	02:17:45	Soprano Pipistrelle	228	
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24/06/2020	03:40:31	Common Pipistrelle	179	
24/06/2020	03:40:46	Noid	191	
24/06/2020	03:41:01	Common Pipistrelle	149	
24/06/2020	03:41:17	Common Pipistrelle	168	
24/06/2020	03:41:32	Common Pipistrelle	159	
24/06/2020	03:41:55	Common Pipistrelle	148	
24/06/2020	03:42:11	Common Pipistrelle	171	
24/06/2020	03:42:26	Common Pipistrelle	147	
24/06/2020	03:42:41	Common Pipistrelle	176	
24/06/2020	03:42:57	Common Pipistrelle	188	Common Pipistrelle Soprano Pipistrelle
24/06/2020	03:43:13	Soprano Pipistrelle	192	
24/06/2020	03:43:28	Common Pipistrelle	151	
24/06/2020	03:43:43	Noid	161	
24/06/2020	03:44:01	Common Pipistrelle	150	

24/06/2020	03:44:16	Common Pipistrelle	163	
24/06/2020	03:44:32	Noid	168	
24/06/2020	03:44:47	Common Pipistrelle	179	
24/06/2020	03:45:02	Common Pipistrelle	168	
24/06/2020	03:45:18	Common Pipistrelle	136	
24/06/2020	03:45:33	Soprano Pipistrelle	173	
24/06/2020	03:45:48	Common Pipistrelle	141	
24/06/2020	03:46:05	Common Pipistrelle	108	
24/06/2020	03:46:20	Common Pipistrelle	174	
24/06/2020	03:46:36	Common Pipistrelle	177	
24/06/2020	03:46:51	Common Pipistrelle	165	
24/06/2020	03:47:06	Common Pipistrelle	187	
24/06/2020	03:47:22	Common Pipistrelle	160	
24/06/2020	03:47:37	Common Pipistrelle	140	
24/06/2020	03:47:52	Common Pipistrelle	191	
24/06/2020	03:48:08	Common Pipistrelle	178	
24/06/2020	03:48:23	Common Pipistrelle	185	
24/06/2020	03:48:38	Common Pipistrelle	160	
24/06/2020	03:48:54	Common Pipistrelle	167	
24/06/2020	03:49:09	Common Pipistrelle	140	
24/06/2020	03:49:25	Common Pipistrelle	129	
24/06/2020	03:49:40	Common Pipistrelle	154	
24/06/2020	03:49:56	Common Pipistrelle	161	
24/06/2020	03:50:11	Common Pipistrelle	157	
24/06/2020	03:50:26	Common Pipistrelle	163	
24/06/2020	03:50:42	Common Pipistrelle	140	
24/06/2020	03:50:57	Common Pipistrelle	151	
24/06/2020	03:51:12	Common Pipistrelle	168	
24/06/2020	03:51:27	Common Pipistrelle	219	Common Pipistrelle Soprano Pipistrelle
24/06/2020	03:51:43	Common Pipistrelle	167	
24/06/2020	03:51:58	Soprano Pipistrelle	180	
24/06/2020	03:52:13	Noid	138	
24/06/2020	03:52:29	Common Pipistrelle	158	
24/06/2020	03:52:44	Common Pipistrelle	27	
24/06/2020	03:52:51	Noid	107	
24/06/2020	03:53:07	Soprano Pipistrelle	60	
24/06/2020	03:53:17	Soprano Pipistrelle	103	
24/06/2020	03:53:30	Common Pipistrelle	156	
24/06/2020	03:53:49	Soprano Pipistrelle	94	
24/06/2020	03:54:06	Noid	9	
24/06/2020	03:54:11	Noid	40	
24/06/2020	03:54:20	Soprano Pipistrelle	103	
24/06/2020	03:54:36	Common Pipistrelle	139	
24/06/2020	03:54:52	Common Pipistrelle	210	Common Pipistrelle
24/06/2020	03:55:07	Common Pipistrelle	137	
24/06/2020	03:55:23	Common Pipistrelle	134	
24/06/2020	03:55:38	Common Pipistrelle	187	
24/06/2020	03:55:53	Common Pipistrelle	154	
24/06/2020	03:56:09	Common Pipistrelle	139	
24/06/2020	03:56:28	Soprano Pipistrelle	45	
24/06/2020	03:56:36	Common Pipistrelle	42	
24/06/2020	03:56:46	Common Pipistrelle	126	

24/06/2020	03:57:07	Soprano Pipistrelle	118	
24/06/2020	03:57:23	Soprano Pipistrelle	38	
24/06/2020	03:57:36	Soprano Pipistrelle	93	
24/06/2020	03:57:51	Soprano Pipistrelle	99	
24/06/2020	03:58:07	Noid	43	
24/06/2020	03:58:17	Soprano Pipistrelle	52	
24/06/2020	03:58:32	Soprano Pipistrelle	46	
24/06/2020	03:58:45	Common Pipistrelle	54	
24/06/2020	03:58:59	Common Pipistrelle	176	
24/06/2020	03:59:15	Common Pipistrelle	156	
24/06/2020	03:59:30	Common Pipistrelle	106	
24/06/2020	03:59:47	Soprano Pipistrelle	110	
24/06/2020	04:00:00	Soprano Pipistrelle	161	
24/06/2020	04:00:15	Noid	74	
24/06/2020	04:01:16	Leisler's Bat	2	
24/06/2020	04:01:31	Soprano Pipistrelle	38	
24/06/2020	04:01:39	Leisler's Bat	58	Leisler's Bat
24/06/2020	04:01:54	Leisler's Bat	21	
24/06/2020	04:02:15	Common Pipistrelle	15	
24/06/2020	04:02:42	Soprano Pipistrelle	45	
24/06/2020	04:02:51	Soprano Pipistrelle	37	
24/06/2020	04:03:02	Soprano Pipistrelle	83	
24/06/2020	04:03:17	Leisler's Bat	4	
24/06/2020	04:03:28	Soprano Pipistrelle	12	
24/06/2020	04:03:43	Common Pipistrelle	50	
24/06/2020	04:04:23	Soprano Pipistrelle	60	
24/06/2020	04:04:35	Common Pipistrelle	22	
24/06/2020	04:04:48	Common Pipistrelle	17	
24/06/2020	04:04:54	Common Pipistrelle	91	
24/06/2020	04:05:10	Noid	93	
24/06/2020	04:05:25	Common Pipistrelle	149	
24/06/2020	04:05:40	Common Pipistrelle	115	
24/06/2020	04:05:56	Common Pipistrelle	9	
24/06/2020	04:06:02	Soprano Pipistrelle	57	
24/06/2020	04:06:13	Soprano Pipistrelle	117	
24/06/2020	04:06:29	Leisler's Bat	27	
24/06/2020	04:06:44	Common Pipistrelle	38	
24/06/2020	04:06:55	Soprano Pipistrelle	30	
24/06/2020	04:07:07	Common Pipistrelle	106	
24/06/2020	04:07:23	Common Pipistrelle	165	
24/06/2020	04:07:38	Common Pipistrelle	81	
24/06/2020	04:07:47	Common Pipistrelle	131	
24/06/2020	04:08:02	Common Pipistrelle	109	
24/06/2020	04:08:18	Leisler's Bat	174	Common Pipistrelle Soprano Pipistrelle Leisler's Bat
24/06/2020	04:08:33	Common Pipistrelle	99	
24/06/2020	04:08:49	Common Pipistrelle	111	
24/06/2020	04:09:04	Soprano Pipistrelle	20	
24/06/2020	04:09:22	Soprano Pipistrelle	37	
24/06/2020	04:09:31	Noid	123	
24/06/2020	04:09:46	Leisler's Bat	42	
24/06/2020	04:10:23	Leisler's Bat	42	Leisler's Bat

24/06/2020	04:10:38	Noid	120	
24/06/2020	04:10:54	Common Pipistrelle	13	
24/06/2020	04:10:59	Common Pipistrelle	55	
24/06/2020	04:12:09	Leisler's Bat	2	
24/06/2020	04:12:25	Leisler's Bat	55	Leisler's Bat
24/06/2020	04:12:40	Leisler's Bat	12	
24/06/2020	04:13:33	Soprano Pipistrelle	10	
24/06/2020	04:14:08	Noid	44	
24/06/2020	04:14:23	Common Pipistrelle	19	
24/06/2020	04:14:40	Common Pipistrelle	92	
24/06/2020	04:14:55	Common Pipistrelle	54	
24/06/2020	04:15:11	Common Pipistrelle	31	
24/06/2020	04:15:26	Noid	33	
24/06/2020	04:15:43	Common Pipistrelle	14	
24/06/2020	04:15:59	Common Pipistrelle	81	
24/06/2020	04:16:14	Common Pipistrelle	40	
24/06/2020	04:16:40	Common Pipistrelle	52	
24/06/2020	04:17:42	Common Pipistrelle	23	
24/06/2020	04:17:57	Leisler's Bat	24	Leisler's Bat
24/06/2020	04:18:13	Pipnat	61	Common Pipistrelle Leisler's Bat
24/06/2020	04:18:29	Noid	2	
24/06/2020	04:18:44	Soprano Pipistrelle	75	
24/06/2020	04:19:00	Common Pipistrelle	61	
24/06/2020	04:19:15	Pipnat	51	Common Pipistrelle Soprano Pipistrelle Leisler's Bat
24/06/2020	04:19:24	Pipnat	77	Common Pipistrelle
24/06/2020	04:19:47	Common Pipistrelle	57	
24/06/2020	04:20:02	Common Pipistrelle	161	
24/06/2020	04:20:17	Common Pipistrelle	130	
24/06/2020	04:20:33	Common Pipistrelle	151	
24/06/2020	04:20:48	Common Pipistrelle	63	
24/06/2020	04:21:03	Common Pipistrelle	153	
24/06/2020	04:21:19	Soprano Pipistrelle	75	
24/06/2020	04:21:37	Common Pipistrelle	46	
24/06/2020	04:21:52	Leisler's Bat	31	Leisler's Bat
24/06/2020	04:22:11	Soprano Pipistrelle	65	
24/06/2020	04:22:27	Soprano Pipistrelle	150	
24/06/2020	04:22:42	Noid	31	
24/06/2020	04:22:58	Leisler's Bat	3	
24/06/2020	04:23:05	Noid	58	
24/06/2020	04:23:21	Common Pipistrelle	72	
24/06/2020	04:23:36	Soprano Pipistrelle	117	
24/06/2020	04:23:52	Soprano Pipistrelle	79	
24/06/2020	04:24:07	Common Pipistrelle	50	
24/06/2020	04:24:18	Soprano Pipistrelle	127	
24/06/2020	04:24:33	Common Pipistrelle	82	
24/06/2020	04:24:49	Noid	34	
24/06/2020	04:25:05	Soprano Pipistrelle	88	
24/06/2020	04:25:21	Soprano Pipistrelle	101	
24/06/2020	04:25:36	Leisler's Bat	48	Leisler's Bat
24/06/2020	04:25:51	Leisler's Bat	27	Leisler's Bat
24/06/2020	04:26:06	Leisler's Bat	12	

24/06/2020	04:26:19	Leisler's Bat	5	
24/06/2020	04:26:25	Noid	3	
24/06/2020	04:26:33	Leisler's Bat	32	Leisler's Bat
24/06/2020	04:26:49	Soprano Pipistrelle	30	
24/06/2020	04:27:05	Noid	2	
24/06/2020	04:27:10	Soprano Pipistrelle	36	
24/06/2020	04:27:23	Noid	47	
24/06/2020	04:27:38	Noid	46	
24/06/2020	04:27:52	Leisler's Bat	5	
24/06/2020	04:27:58	Noid	20	
24/06/2020	04:28:11	Pipnat	80	Common Pipistrelle Soprano Pipistrelle Leisler's Bat
24/06/2020	04:28:33	Common Pipistrelle	94	
24/06/2020	04:28:49	Soprano Pipistrelle	102	
24/06/2020	04:29:05	Pipnat	3	Common Pipistrelle
24/06/2020	04:29:10	Pipnat	34	Common Pipistrelle Leisler's Bat
24/06/2020	04:29:25	Soprano Pipistrelle	56	
24/06/2020	04:29:41	Common Pipistrelle	21	
24/06/2020	04:29:49	Soprano Pipistrelle	54	
24/06/2020	04:30:02	Leisler's Bat	55	Common Pipistrelle Leisler's Bat
24/06/2020	04:30:18	Noid	44	
24/06/2020	04:30:34	Soprano Pipistrelle	44	
24/06/2020	04:30:49	Noid	11	
24/06/2020	04:31:04	Common Pipistrelle	45	
24/06/2020	04:31:14	Leisler's Bat	3	
24/06/2020	04:31:34	Common Pipistrelle	17	
24/06/2020	04:31:46	Leisler's Bat	17	
24/06/2020	04:32:03	Leisler's Bat	15	
24/06/2020	04:32:15	Common Pipistrelle	45	
24/06/2020	04:32:31	Soprano Pipistrelle	42	
24/06/2020	04:32:44	Leisler's Bat	15	
24/06/2020	04:32:56	Leisler's Bat	4	
24/06/2020	04:33:03	Leisler's Bat	7	
24/06/2020	04:33:15	Soprano Pipistrelle	23	
24/06/2020	04:33:27	Common Pipistrelle	28	
24/06/2020	04:33:40	Soprano Pipistrelle	16	
24/06/2020	04:33:51	Noid	5	
24/06/2020	04:33:57	Soprano Pipistrelle	20	
24/06/2020	04:34:34	Soprano Pipistrelle	62	
24/06/2020	04:35:33	Leisler's Bat	3	
24/06/2020	04:35:43	Common Pipistrelle	21	
24/06/2020	04:36:01	Leisler's Bat	9	

**Table 3: All bat data from hand-held EM3 15<sup>th</sup> August to 16<sup>th</sup> August 2018 at Capdoo Commons**

Time	Auto Id	Pulses	Manual Id
21:18:16	Soprano Pipistrelle	7	Soprano Pipistrelle
21:23:18	Soprano Pipistrelle	14	Soprano Pipistrelle
21:23:51	Leisler's	29	Leisler's
21:24:24	Soprano Pipistrelle	24	Soprano Pipistrelle
21:24:58	Leisler's	20	Leisler's
21:25:31	Leisler's	5	Leisler's

21:27:10	Leisler's	8	Leisler's
21:27:40	Leisler's	7	Leisler's
21:34:22	Soprano Pipistrelle	56	Soprano Pipistrelle
21:34:52	Soprano Pipistrelle	30	Soprano Pipistrelle
21:34:55	Soprano Pipistrelle	97	Soprano Pipistrelle
21:35:29	Soprano Pipistrelle	64	Soprano Pipistrelle
21:35:59	Leisler's	2	Leisler's
21:36:02	Leisler's	5	Leisler's
21:40:09	Common Pipistrelle	61	Common Pipistrelle Soprano Pipistrelle
21:40:39	Common Pipistrelle	11	Common Pipistrelle
21:40:43	Common Pipistrelle	30	Common Pipistrelle
21:44:02	Soprano Pipistrelle	100	Soprano Pipistrelle
21:44:32	Soprano Pipistrelle	4	Soprano Pipistrelle
21:44:35	Soprano Pipistrelle	4	Soprano Pipistrelle
21:45:08	Soprano Pipistrelle	6	Soprano Pipistrelle
21:45:38	Soprano Pipistrelle	9	Soprano Pipistrelle
21:47:18	Common Pipistrelle	3	Common Pipistrelle
21:47:21	Common Pipistrelle	10	Common Pipistrelle
21:50:40	Soprano Pipistrelle	3	Soprano Pipistrelle
21:51:10	Soprano Pipistrelle	2	Soprano Pipistrelle
21:55:06	Common Pipistrelle	35	Common Pipistrelle
21:55:39	Soprano Pipistrelle	32	Soprano Pipistrelle
21:57:19	Leisler's	8	Leisler's
21:57:52	Leisler's	2	Leisler's
22:00:05	Soprano Pipistrelle	18	Leisler's Soprano Pipistrelle
22:00:38	Leisler's	4	Leisler's
22:03:57	Common Pipistrelle	3	Common Pipistrelle
22:04:31	Common Pipistrelle	7	Common Pipistrelle
22:06:42	Common Pipistrelle	32	Common Pipistrelle
22:07:12	Common Pipistrelle	10	Common Pipistrelle
22:16:41	Common Pipistrelle	43	Common Pipistrelle
22:21:07	Common Pipistrelle	121	Common Pipistrelle
22:23:53	Soprano Pipistrelle	8	Soprano Pipistrelle
22:27:12	Common Pipistrelle	22	Common Pipistrelle

**Table 4: All signals recorded by static monitor in hedge gap between two hedges commencing 20.56 hours 15<sup>th</sup> August and with the final signal at 05.22 hours approximately 16<sup>th</sup> August 2018**

Auto Id	Pulses	Manual Id
Leisler's	3	Leisler's
Leisler's	6	Leisler's
Leisler's	21	Leisler's
Leisler's	36	Leisler's
Leisler's	3	Leisler's

Leisler's	58	Leisler's
Leisler's	59	Leisler's
Leisler's	2	Leisler's
Leisler's	3	Leisler's
Leisler's	11	Leisler's
Leisler's	8	Leisler's
Leisler's	6	Leisler's
Leisler's	21	Leisler's
Leisler's	6	Leisler's
Leisler's	2	Leisler's
Leisler's	27	Leisler's
Leisler's	33	Leisler's
Leisler's	20	Leisler's
Soprano Pipistrelle	3	Soprano Pipistrelle
Soprano Pipistrelle	51	Soprano Pipistrelle
Soprano Pipistrelle	53	Soprano Pipistrelle
Soprano Pipistrelle	71	Soprano Pipistrelle
Soprano Pipistrelle	2	Soprano Pipistrelle
Soprano Pipistrelle	4	Soprano Pipistrelle
Soprano Pipistrelle	149	Soprano Pipistrelle
Soprano Pipistrelle	5	Soprano Pipistrelle
Soprano Pipistrelle	8	Soprano Pipistrelle
Soprano Pipistrelle	2	Soprano Pipistrelle
Soprano Pipistrelle	186	Soprano Pipistrelle
Soprano Pipistrelle	7	Soprano Pipistrelle
Soprano Pipistrelle	20	Soprano Pipistrelle
Soprano Pipistrelle	11	Soprano Pipistrelle
Soprano Pipistrelle	144	Soprano Pipistrelle
Soprano Pipistrelle	5	Soprano Pipistrelle
Soprano Pipistrelle	3	Soprano Pipistrelle
Soprano Pipistrelle	163	Soprano Pipistrelle
Soprano Pipistrelle	3	Soprano Pipistrelle
Soprano Pipistrelle	6	Soprano Pipistrelle
Soprano Pipistrelle	7	Soprano Pipistrelle
Soprano Pipistrelle	146	Soprano Pipistrelle
Soprano Pipistrelle	6	Soprano Pipistrelle
Soprano Pipistrelle	9	Soprano Pipistrelle
Soprano Pipistrelle	7	Soprano Pipistrelle
Soprano Pipistrelle	5	Soprano Pipistrelle
Soprano Pipistrelle	5	Soprano Pipistrelle
Soprano Pipistrelle	151	Soprano Pipistrelle
Soprano Pipistrelle	57	Soprano Pipistrelle
Soprano Pipistrelle	62	Soprano Pipistrelle



Soprano Pipistrelle	20	Soprano Pipistrelle
Leisler's	15	Leisler's
Leisler's	4	Leisler's
Soprano Pipistrelle	26	Soprano Pipistrelle
Soprano Pipistrelle	9	Soprano Pipistrelle
Soprano Pipistrelle	20	Soprano Pipistrelle
Soprano Pipistrelle	19	Soprano Pipistrelle
Soprano Pipistrelle	5	Soprano Pipistrelle
Soprano Pipistrelle	6	Soprano Pipistrelle
Soprano Pipistrelle	15	Soprano Pipistrelle
Soprano Pipistrelle	13	Soprano Pipistrelle
Daubenton's	7	Daubenton's
Soprano Pipistrelle	3	Leisler's Soprano Pipistrelle
Leisler's	2	Leisler's Soprano Pipistrelle
Leisler's	8	Leisler's
Daubenton's	6	Daubenton's
Common Pipistrelle	5	Common Pipistrelle
Leisler's	2	Leisler's
Common Pipistrelle	9	Common Pipistrelle
Common Pipistrelle	2	Common Pipistrelle
Common Pipistrelle	19	Common Pipistrelle
Soprano Pipistrelle	2	Soprano Pipistrelle
Soprano Pipistrelle	20	Soprano Pipistrelle
Soprano Pipistrelle	8	Soprano Pipistrelle
Common Pipistrelle	21	Common Pipistrelle
Daubenton's	5	Daubenton's
Common Pipistrelle	2	Common Pipistrelle
Soprano Pipistrelle	4	Soprano Pipistrelle
Leisler's	3	Leisler's
Leisler's	6	Leisler's
Soprano Pipistrelle	5	Soprano Pipistrelle
Nathusius' Pipistrelle	15	Nathusius' Pipistrelle
Daubenton's	8	Daubenton's
Common Pipistrelle	16	Common Pipistrelle
Soprano Pipistrelle	25	Soprano Pipistrelle
Soprano Pipistrelle	2	Soprano Pipistrelle

**Table 5: Dusk and dawn data from handheld EM3 23<sup>rd</sup> to 24<sup>th</sup> June 2020**

Date	Time	Auto Id*	Pulses	Manual Id
23/06/2020	22:47:12	Leisler's Bat	92	Common Pipistrelle Leisler's Bat
23/06/2020	22:38:50	Leisler's Bat	55	Leisler's Bat
23/06/2020	22:30:48	Leisler's Bat	42	Leisler's Bat
23/06/2020	22:58:55	Leisler's Bat	33	Leisler's Bat
23/06/2020	22:46:12	Leisler's Bat	30	Leisler's Bat
23/06/2020	22:37:10	Leisler's Bat	63	Common Pipistrelle Leisler's Bat
23/06/2020	22:55:54	Leisler's Bat	21	Leisler's Bat
23/06/2020	22:51:53	Leisler's Bat	20	Leisler's Bat
23/06/2020	22:25:47	Leisler's Bat	18	Leisler's Bat
23/06/2020	22:21:46	Leisler's Bat	19	Leisler's Bat
23/06/2020	22:31:23	Leisler's Bat	17	Leisler's Bat
23/06/2020	22:21:41	Leisler's Bat	15	Leisler's Bat
23/06/2020	22:23:42	Leisler's Bat	15	Leisler's Bat
23/06/2020	22:42:46	Leisler's Bat	15	Leisler's Bat
23/06/2020	22:46:07	Leisler's Bat	17	Leisler's Bat
23/06/2020	23:19:00	Leisler's Bat	14	Leisler's Bat
23/06/2020	22:31:28	Leisler's Bat	16	Leisler's Bat
23/06/2020	22:29:48	Leisler's Bat	16	Leisler's Bat
23/06/2020	22:30:03	Leisler's Bat	13	Leisler's Bat
23/06/2020	22:31:08	Leisler's Bat	14	Soprano Pipistrelle Leisler's Bat
23/06/2020	22:17:45	Leisler's Bat	12	Leisler's Bat
23/06/2020	22:54:54	Leisler's Bat	12	
23/06/2020	22:38:45	Leisler's Bat	16	
23/06/2020	22:23:27	Leisler's Bat	11	
23/06/2020	22:30:43	Leisler's Bat	11	
23/06/2020	23:01:36	Leisler's Bat	11	
23/06/2020	22:46:27	Leisler's Bat	12	
23/06/2020	22:42:06	Leisler's Bat	10	
23/06/2020	22:44:26	Leisler's Bat	11	
23/06/2020	22:47:07	Leisler's Bat	16	
23/06/2020	22:26:47	Leisler's Bat	9	
23/06/2020	22:45:47	Leisler's Bat	15	
23/06/2020	22:31:43	Leisler's Bat	6	
23/06/2020	22:55:34	Leisler's Bat	6	
23/06/2020	22:56:09	Leisler's Bat	6	
23/06/2020	22:18:00	Leisler's Bat	5	
23/06/2020	22:55:09	Leisler's Bat	4	
23/06/2020	22:56:54	Leisler's Bat	4	
23/06/2020	22:22:01	Leisler's Bat	3	
23/06/2020	22:27:02	Leisler's Bat	3	
23/06/2020	23:02:31	Leisler's Bat	3	
23/06/2020	22:23:47	Leisler's Bat	2	
23/06/2020	22:26:27	Leisler's Bat	2	
23/06/2020	22:39:30	Leisler's Bat	2	
23/06/2020	23:00:30	Leisler's Bat	2	
23/06/2020	22:26:22	Noid	2	Leisler's Bat
23/06/2020	22:29:08	Noid	35	Common Pipistrelle Soprano Pipistrelle
23/06/2020	22:29:23	Noid	27	Pip
23/06/2020	22:32:04	Noid	2	Common Pipistrelle Soprano Pipistrelle
23/06/2020	22:32:09	Noid	6	Common Pipistrelle Soprano Pipistrelle

23/06/2020	22:36:30	Noid	53	Common Pipistrelle Soprano Pipistrelle
23/06/2020	22:38:25	Noid	59	Common Pipistrelle Soprano Pipistrelle Leisler's Bat
23/06/2020	22:43:51	Noid	4	Pip
23/06/2020	22:45:32	Noid	2	Soprano Pipistrelle Leisler's Bat
23/06/2020	22:46:32	Noid	38	Common Pipistrelle
23/06/2020	22:47:47	Noid	62	Common Pipistrelle Leisler's Bat
23/06/2020	22:56:34	Noid	3	Leisler's Bat
23/06/2020	22:57:15	Noid	2	Leisler's Bat
23/06/2020	23:01:56	Noid	5	Soprano Pipistrelle Leisler's Bat
23/06/2020	23:02:16	Noid	42	Soprano Pipistrelle Leisler's Bat
23/06/2020	23:05:32	Noid	2	Leisler's Bat
23/06/2020	23:11:18	Noid	15	Common Pipistrelle
23/06/2020	23:11:33	Pipnat	14	Common Pipistrelle
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23/06/2020	22:48:12	Common Pipistrelle	106	
23/06/2020	22:38:10	Common Pipistrelle	151	
23/06/2020	22:32:49	Common Pipistrelle	98	
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23/06/2020	22:37:50	Common Pipistrelle	116	
23/06/2020	22:35:29	Common Pipistrelle	90	
23/06/2020	22:36:50	Common Pipistrelle	88	
23/06/2020	22:33:49	Common Pipistrelle	84	
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23/06/2020	22:35:09	Common Pipistrelle	89	
23/06/2020	22:54:14	Common Pipistrelle	69	
23/06/2020	22:40:31	Common Pipistrelle	108	
23/06/2020	22:38:30	Common Pipistrelle	68	
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23/06/2020	22:41:06	Common Pipistrelle	49	
23/06/2020	22:54:09	Common Pipistrelle	43	
23/06/2020	22:34:49	Common Pipistrelle	91	
23/06/2020	22:41:11	Common Pipistrelle	42	
23/06/2020	22:49:28	Common Pipistrelle	36	
23/06/2020	22:38:05	Common Pipistrelle	34	
23/06/2020	22:58:10	Common Pipistrelle	48	
23/06/2020	23:08:58	Common Pipistrelle	36	
23/06/2020	22:44:11	Common Pipistrelle	42	
23/06/2020	22:47:27	Common Pipistrelle	63	
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23/06/2020	22:42:26	Common Pipistrelle	35	
23/06/2020	22:49:33	Common Pipistrelle	70	
23/06/2020	22:51:33	Common Pipistrelle	32	
23/06/2020	22:28:08	Common Pipistrelle	45	
23/06/2020	22:53:34	Common Pipistrelle	30	
23/06/2020	22:41:26	Common Pipistrelle	32	
23/06/2020	23:08:37	Common Pipistrelle	28	
23/06/2020	22:39:10	Common Pipistrelle	31	
23/06/2020	22:44:52	Common Pipistrelle	41	
23/06/2020	22:32:44	Common Pipistrelle	30	

23/06/2020	22:54:34	Common Pipistrelle	31	
23/06/2020	22:36:10	Common Pipistrelle	50	
23/06/2020	23:22:37	Common Pipistrelle	24	
23/06/2020	22:36:04	Common Pipistrelle	39	
23/06/2020	22:53:49	Common Pipistrelle	21	
23/06/2020	22:44:06	Common Pipistrelle	33	
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23/06/2020	22:51:08	Common Pipistrelle	8	
23/06/2020	22:57:50	Common Pipistrelle	8	
23/06/2020	22:35:24	Common Pipistrelle	8	
23/06/2020	23:02:36	Common Pipistrelle	9	
23/06/2020	22:48:27	Common Pipistrelle	5	
23/06/2020	22:52:13	Common Pipistrelle	5	
23/06/2020	23:08:32	Common Pipistrelle	5	
23/06/2020	22:40:26	Common Pipistrelle	6	
23/06/2020	23:13:39	Common Pipistrelle	8	
23/06/2020	22:41:31	Common Pipistrelle	4	
23/06/2020	22:50:33	Common Pipistrelle	2	
23/06/2020	22:54:29	Common Pipistrelle	2	
23/06/2020	22:53:29	Common Pipistrelle	3	
23/06/2020	22:43:31	Common Pipistrelle	2	
23/06/2020	22:37:30	Soprano Pipistrelle	159	
23/06/2020	23:07:17	Soprano Pipistrelle	119	
23/06/2020	22:52:54	Soprano Pipistrelle	110	
23/06/2020	23:07:37	Soprano Pipistrelle	118	
23/06/2020	23:07:57	Soprano Pipistrelle	94	
23/06/2020	22:39:50	Soprano Pipistrelle	57	
23/06/2020	22:58:15	Soprano Pipistrelle	56	
23/06/2020	22:35:49	Soprano Pipistrelle	67	
23/06/2020	22:32:29	Soprano Pipistrelle	83	
23/06/2020	22:40:11	Soprano Pipistrelle	38	
23/06/2020	23:11:58	Soprano Pipistrelle	48	
23/06/2020	22:37:25	Soprano Pipistrelle	32	
23/06/2020	22:40:51	Soprano Pipistrelle	46	
23/06/2020	22:29:28	Soprano Pipistrelle	47	
23/06/2020	22:37:45	Soprano Pipistrelle	32	
23/06/2020	22:53:09	Soprano Pipistrelle	26	
23/06/2020	22:57:35	Soprano Pipistrelle	29	
23/06/2020	23:07:32	Soprano Pipistrelle	30	
23/06/2020	22:36:25	Soprano Pipistrelle	22	
23/06/2020	23:07:52	Soprano Pipistrelle	34	
23/06/2020	22:46:47	Soprano Pipistrelle	29	
23/06/2020	22:31:49	Soprano Pipistrelle	24	
23/06/2020	22:29:03	Soprano Pipistrelle	17	

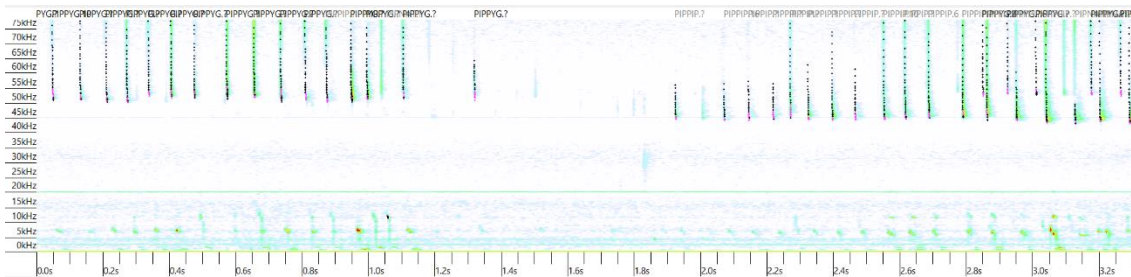
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23/06/2020	22:39:45	Soprano Pipistrelle	17	
23/06/2020	22:22:26	Soprano Pipistrelle	15	
23/06/2020	23:12:18	Soprano Pipistrelle	12	
23/06/2020	22:37:05	Soprano Pipistrelle	11	
23/06/2020	22:53:14	Soprano Pipistrelle	13	
23/06/2020	22:35:44	Soprano Pipistrelle	16	
23/06/2020	22:40:05	Soprano Pipistrelle	10	
23/06/2020	23:09:58	Soprano Pipistrelle	8	
23/06/2020	23:26:18	Soprano Pipistrelle	9	
23/06/2020	22:52:33	Soprano Pipistrelle	6	
23/06/2020	22:52:48	Soprano Pipistrelle	7	
23/06/2020	23:15:59	Soprano Pipistrelle	5	
23/06/2020	23:26:33	Soprano Pipistrelle	5	
23/06/2020	22:22:41	Soprano Pipistrelle	4	
23/06/2020	23:04:36	Soprano Pipistrelle	3	
23/06/2020	23:10:13	Soprano Pipistrelle	3	
23/06/2020	23:10:58	Soprano Pipistrelle	3	
23/06/2020	23:10:18	Soprano Pipistrelle	2	
Date	Time	Auto Id*	Pulses	Manual Id
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24/06/2020	04:08:09	Leisler's Bat	26	Leisler's Bat
24/06/2020	04:18:11	Leisler's Bat	18	Leisler's Bat
24/06/2020	04:04:48	Leisler's Bat	11	Leisler's Bat
24/06/2020	04:05:03	Leisler's Bat	11	Leisler's Bat
24/06/2020	04:05:23	Leisler's Bat	10	Leisler's Bat
24/06/2020	04:16:46	Leisler's Bat	4	Leisler's Bat
24/06/2020	04:33:53	Leisler's Bat	4	Leisler's Bat
24/06/2020	04:10:09	Leisler's Bat	2	Leisler's Bat
24/06/2020	04:12:45	Leisler's Bat	2	Leisler's Bat
24/06/2020	04:09:29	Noid	4	Common Pipistrelle
24/06/2020	04:10:24	Noid	12	Soprano Pipistrelle Leisler's Bat
24/06/2020	04:09:04	Noid	15	Common Pipistrelle
24/06/2020	04:10:44	Noid	5	Soprano Pipistrelle
24/06/2020	04:11:05	Noid	10	Common Pipistrelle Leisler's Bat
24/06/2020	04:14:25	Noid	53	Common Pipistrelle
24/06/2020	04:18:51	Noid	3	Soprano Pipistrelle Leisler's Bat
24/06/2020	04:19:51	Noid	61	Common Pipistrelle
24/06/2020	04:20:11	Noid	21	Soprano Pipistrelle
24/06/2020	04:19:46	Noid	4	Common Pipistrelle
24/06/2020	04:21:45	Noid	2	Common Pipistrelle
24/06/2020	04:18:31	Pipnat	43	Common Pipistrelle
24/06/2020	04:08:49	Pipnat	23	Common Pipistrelle
24/06/2020	04:20:06	Pipnat	6	Common Pipistrelle
24/06/2020	04:19:11	Pipnat	4	Common Pipistrelle
24/06/2020	04:31:32	Pipnat	4	Common Pipistrelle
24/06/2020	04:16:11	Common Pipistrelle	164	Common Pipistrelle
24/06/2020	04:15:30	Common Pipistrelle	78	Common Pipistrelle
24/06/2020	04:14:50	Common Pipistrelle	71	Common Pipistrelle
24/06/2020	04:15:51	Common Pipistrelle	65	Common Pipistrelle
24/06/2020	04:16:06	Common Pipistrelle	49	Common Pipistrelle
24/06/2020	04:16:31	Common Pipistrelle	73	Common Pipistrelle

24/06/2020	04:14:30	Common Pipistrelle	48	
24/06/2020	04:29:12	Common Pipistrelle	38	
24/06/2020	04:22:10	Common Pipistrelle	38	
24/06/2020	04:15:05	Common Pipistrelle	34	
24/06/2020	04:18:06	Common Pipistrelle	31	
24/06/2020	04:16:26	Common Pipistrelle	51	
24/06/2020	04:14:45	Common Pipistrelle	22	
24/06/2020	03:52:56	Common Pipistrelle	20	
24/06/2020	04:11:28	Common Pipistrelle	19	
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24/06/2020	04:16:51	Common Pipistrelle	18	
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24/06/2020	04:17:31	Common Pipistrelle	10	
24/06/2020	04:17:11	Common Pipistrelle	13	
24/06/2020	04:15:45	Common Pipistrelle	9	
24/06/2020	04:04:28	Common Pipistrelle	7	
24/06/2020	04:36:13	Common Pipistrelle	7	
24/06/2020	04:17:06	Common Pipistrelle	6	
24/06/2020	03:54:11	Common Pipistrelle	5	
24/06/2020	04:29:27	Common Pipistrelle	5	
24/06/2020	04:23:45	Common Pipistrelle	3	
24/06/2020	04:07:09	Common Pipistrelle	2	
24/06/2020	04:11:08	Soprano Pipistrelle	174	
24/06/2020	04:21:30	Soprano Pipistrelle	50	
24/06/2020	04:19:31	Soprano Pipistrelle	61	
24/06/2020	04:15:10	Soprano Pipistrelle	70	
24/06/2020	04:20:32	Soprano Pipistrelle	44	
24/06/2020	04:33:12	Soprano Pipistrelle	39	
24/06/2020	04:29:32	Soprano Pipistrelle	48	
24/06/2020	03:54:16	Soprano Pipistrelle	33	
24/06/2020	04:11:23	Soprano Pipistrelle	42	
24/06/2020	04:19:06	Soprano Pipistrelle	34	
24/06/2020	04:10:29	Soprano Pipistrelle	29	
24/06/2020	04:23:10	Soprano Pipistrelle	20	
24/06/2020	04:33:07	Soprano Pipistrelle	20	
24/06/2020	04:13:50	Soprano Pipistrelle	24	
24/06/2020	04:10:50	Soprano Pipistrelle	30	
24/06/2020	04:21:25	Soprano Pipistrelle	17	
24/06/2020	04:24:30	Soprano Pipistrelle	17	
24/06/2020	04:27:11	Soprano Pipistrelle	21	
24/06/2020	04:22:50	Soprano Pipistrelle	19	
24/06/2020	04:30:47	Soprano Pipistrelle	15	
24/06/2020	04:25:31	Soprano Pipistrelle	15	
24/06/2020	04:01:48	Soprano Pipistrelle	13	
24/06/2020	04:26:31	Soprano Pipistrelle	8	
24/06/2020	04:26:11	Soprano Pipistrelle	6	
24/06/2020	04:30:52	Soprano Pipistrelle	3	
24/06/2020	04:30:27	Soprano Pipistrelle	3	

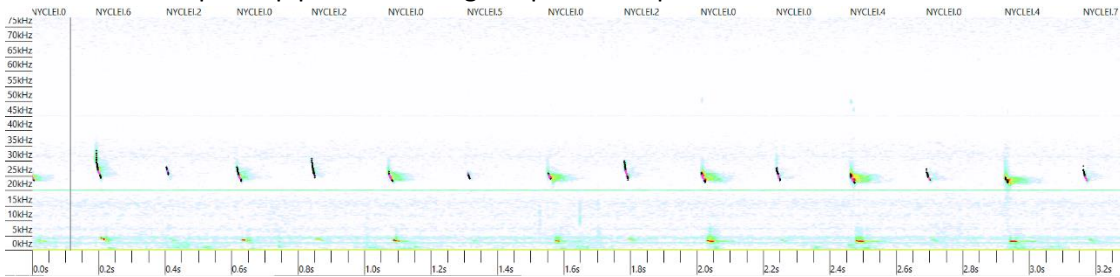
**Table 6: Bat Conservation Ireland data: search results 28<sup>th</sup> June 2020**

Search parameters: Roosts Transects Ad-hoc observation sites with observations of all bats within 1000m of N8843127871.

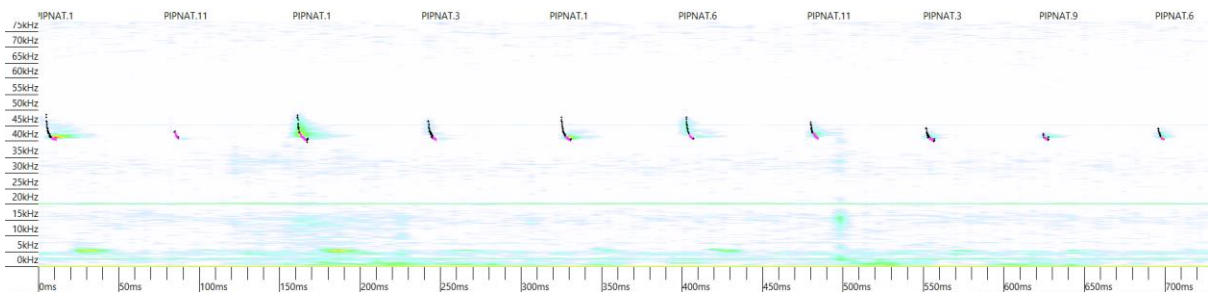
Roosts				
Name	Grid reference	Address	Species observed	
12KECL1WC	N8796827079	Clane Tidy Towns Park; Co. Kildare		
Transects				
Name	Grid reference start	Species		
Liffey Park Clane Transect	N8790027050	Myotis daubentonii; Unidentified bat		



Common and soprano pipistrelles along the perimeter prior to sunrise June 2020

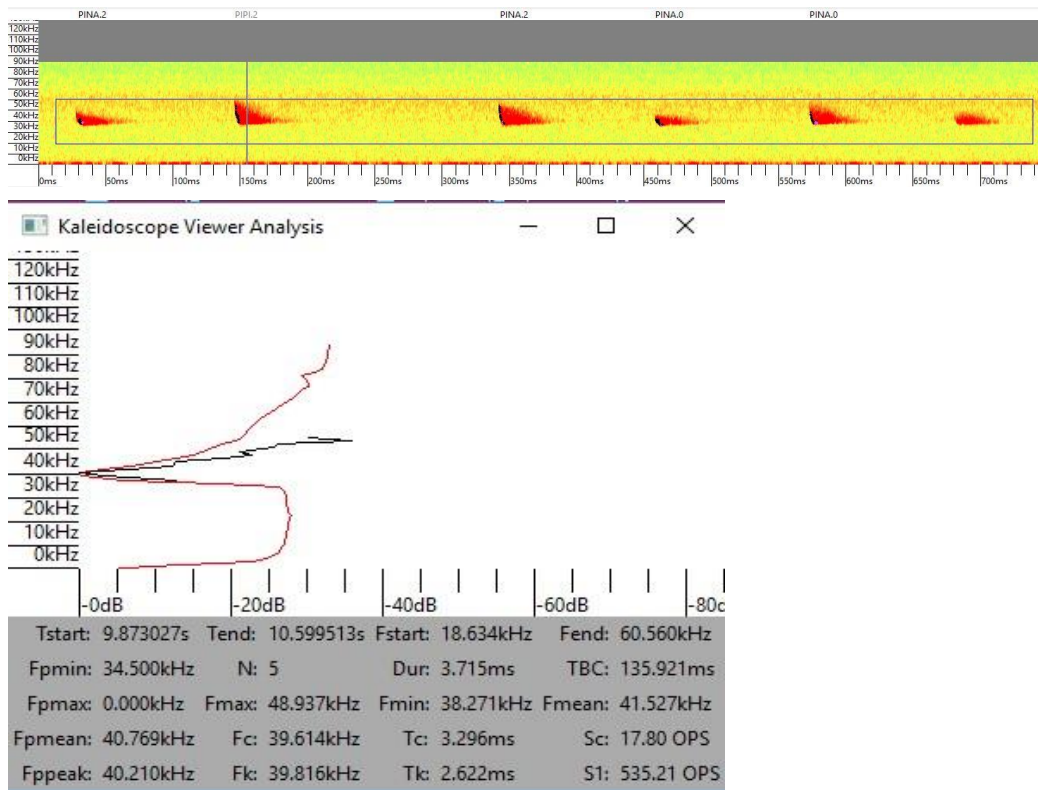


Leisler's bat prior to sunrise within the site June 2020



Common pipistrelle misidentified as Nathusius' pipistrelle by software

**Figure 7: Bat sonograms from 2020**



**Figure 8: Possible Nathusius' pipistrelle at approximately 03.26 hours August 2018**