

# A Bat and Badger Assessment of Lands Proposed for Development at Kilnahue, Gorey, Co. Wexford

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## **Introduction**

Most of Ireland's mammals enjoy protection under the Wildlife Act (1976) and the more recent updating of this legislation (Wildlife (Amendment) Act 2000, S.I. No. 94 of 1997, S.I. No. 378 of 2005, European Communities (Natural Habitats) (Amendment) Regulations, 2005) and consolidated by S.I. No. 477 of 2011 European Communities (Birds and Natural Habitats) Regulations 2011. In conjunction with the enactment of the Habitats Directive into Irish legislation, all native mustelid species and bat species are protected with further protection given to otters and lesser horseshoe bats.

Determining the mammal fauna of an area may involve a high level of assessment if the aim of the survey is to catalogue all mammals but this is too detailed for the aim of creating mitigation for a proposed construction project. This assessment is specific to the presence of ground mammals and bats within lands proposed for the construction of a housing project along the and all associated structures and surfaces. The survey undertaken within the site allows a targeting of mitigation measures to the appropriate or most efficient sites to prevent accidental death or injury and to determine if it would be possible to provide safe passage across long-established routes through a new development.

Fieldwork for the current report on badger and bat distribution was carried out by Brian Keeley, an ecologist with over thirty years of fieldwork experience. The site was examined over two seasons in 2020 - 2021 (autumn and late winter) as well as summer 2018.

This report addresses the main issues that would affect the mammal fauna of the immediate area considered in this assessment and created by construction and the presence of new buildings and increased human activity.

Construction activities and subsequent occupancy of housing and the associated new lanes, tracks, or roads close to a riverbank may create a number of significant short-term and long-term risks for resident badger and bat populations, in addition to impacts upon other vertebrates and invertebrates. The construction of housing or other properties may involve the removal of key features of the surrounding environment and of the habitats of otters, badgers, bats, and other mammal species, such as trees, hedgerow lines and open spaces / pasture in which to feed.

The most damaging operation is the potential for the destruction of badger dwellings (setts) during the vegetation clearance and early earthworks and of the accidental injury to bats within trees or buildings upon the site, were they to be present.

In relation to badgers, the clearance of hedgerow and treelines poses the risk of the removal of the badgers' home burrow and the associated burrows (all of which are known as setts) that are used seasonally or occasionally throughout the year. In winter, this is especially risky if the sett is not identified before hedgerow removal operations, as this is the time when badger cubs are born. In the classification used in this report, setts are considered to fall into four categories, which are best elaborated by long-term studies but can be interpreted to a relatively good accuracy in terms of status based on basic observations.

Using the most traditional description of badger ecology, the basic sett type within which badgers are typically present throughout the year is the main sett. This is almost always the sett within which cubs are born. Bedding outside the entrance to these setts often identifies their use as such and paw prints and dung pits or latrines nearby also assist in their categorisation. There are typically several entrances to a main sett, some of which may be disused. Paths leading from the main sett are often very easy to trace for some distance.

Annexe setts are similar in construction to main setts and are typically accessed by several entrances. They are often discernibly connected to a main sett by well-worn paths, which is

within 150 metres of the annexe sett. Badgers do not necessarily use this type of sett throughout the year, and they may be inactive at the time of any short-term study.

Subsidiary setts are again not always active throughout the year. There may be several entrances to the sett and they are not clearly associated with any other sett.

The last type of sett, the outlier sett, may only have one entrance and has no path leading to it. This type of sett is only sporadically used and may even be in areas subject to flooding or seasonally unsuitable to badger use. These setts may be overlooked if they have remained inactive for several weeks and this may be true of such setts in early winter. This survey was undertaken in midwinter to avoid this possibility.

Setts may be under threat from construction if they lie directly in the line of a proposed building. Setts outside of this land take area may also be threatened with damage from the normal activities of the heavy plant equipment required to build the project. For example, if a badger sett entrance were located outside of the land take of a site but led to a system of tunnels that lay under the working area of the heavy plant, there is a clear risk that the tunnels would be crushed under the repeated movement of equipment.

These tunnels may occasionally go as deep as two metres underground but are also liable to surface to shallower depth to avoid rocky substrate or water. Thus, badger setts may be affected by the immediate impact upon them from the excavation and removal of the soil within which they are established or by the indirect destruction of tunnels that lie under the construction corridor of the road.

The population of badgers in Ireland has been revised downwards in recent years for several reasons. Areas where agriculture is of less intensity may provide safer conditions for badgers in terms of state control measures, but urban areas create a risk of interference that may be more persistent than in rural areas. Nonetheless, badgers survive in many areas close to human activities including farmland, gardens, along the rivers even in built-up areas or in the grounds of schools, colleges, convents etc.

Of bats known to breed in Ireland, the lesser horseshoe bat has the highest protection level (Annex II under the Habitats Directive). This species is not found in Wexford. However, there

is one record of the greater horseshoe bat from approximately 42 kilometres away from 2013) and a second record from 40 km away in Wicklow in 2020. This species is not a breeding species in Ireland but is clearly investigating suitable habitat probably from Wales.

In relation to bats, there is the potential of losses of commuting routes and feeding areas where construction greatly modifies the availability of insect prey, creates a barrier to movement or removes access to roost sites, rendering feeding sites too distant from any alternative roosts used.

In Wexford, the following bat species are commonly recorded: common and soprano pipistrelle, Leisler's bat, and brown long-eared bat. The following species are widespread but less common than the above: Daubenton's bat, Natterer's bat. The next species are uncommon; whiskered bat and Nathusius' pipistrelle but the species is known to roost annually in buildings close to Wexford town. As noted earlier, there is one record of greater horseshoe bat from County Wexford from February 2013 and one from Wicklow in 2020.

## **Methodology**

### **Badgers**

The survey for the presence of badgers within the site was undertaken on 3<sup>rd</sup> March 2021. The agricultural lands (showing evidence of potato harvesting), pasture, the scrubby field, open ground, and hedgerow were all examined for evidence of any suitably large burrows, paw prints, dung pits, latrines, or other evidence of badgers. The road passing the site was also examined for any evidence of regular badger movement by way of obvious tracks or holes in the vegetation.

### **Bats**

Surveying for bats within the site has been undertaken on the following dates: 27<sup>th</sup> and 28<sup>th</sup> September 2020, 31<sup>st</sup> July and 1<sup>st</sup> August 2018, 3<sup>rd</sup> March 2021 and 29<sup>th</sup> to 30<sup>th</sup> March 2022. The survey involved three bat activity surveys and a winter visual inspection of the site for bat evidence.

Observations of the relative abundance of bats within the site was made visually with the assistance of the bat detector signals. Surveying involved the use of a handheld Echometer 3 broad spectrum monitor recording all ultrasonic signals on to a SD card and also displaying converted signals on a screen for instant identification.

In 2020, a static monitor (Songmeter Mini) was placed outside the ruined cottage and remained in place overnight.

The entire site was walked from sunset onwards with the main area of concentration of effort being at the cottage and sheds at sunset and examining the mature trees of the site prior to sunrise.

The site was again visited prior to sunrise in 2018 and 2020 from 04.00 hours to 05.00 hours (2018) and from 06.00 to 07.00 hours (2020) on the mornings following the dusk survey to assess for any evidence of bats returning to roosts within the trees or ruined buildings or immediately adjoining sites.

A final assessment of the site was undertaken on 29<sup>th</sup> and 30<sup>th</sup> March 2022. This involved a visual inspection in daylight of the buildings within the site followed by a bat activity survey commencing at 19.40 hours and continuing up to 21.40 hours (sunset at 19.54 hours) and recommencing at 05.35 hours up to sunrise at 07.04 hours. The active survey was undertaken with an Echometer Touch 2 Pro and analysed with Kaleidoscope Pro sound analysis software.

The ruined house was entered on 5 occasions throughout the survey period including shortly after sunset and prior to sunrise and all rooms were examined for any perched or flying bats.

#### *Survey constraints*

Surveys were undertaken at a time that was suitable for identifying the presence of bats in summer roosts in 2018 and supplemented with data on bat activity in autumn in 2020 and also included spring activity in 2022. As temperatures fell to 4°C overnight on 30<sup>th</sup> March 2022, there was no bat activity during the active survey (i.e., the walked survey as opposed to the survey undertaken with a static monitor and no human involvement in the recording process). Bat activity was noted up to 05.03 hours by the static monitor placed outside the ruined house. The badger survey was at a time when vegetation had not commenced vigorous

re-growth and there was easy access to most of the site. One area of dense bramble was present in the north-eastern section of the site and south of this area close to an overgrown track which may have served as a right of way historically. This track was examined from within, and it was possible to see through much but not all scrub. The combination of field signs and direct examination for setts was sufficient to allow an evaluation for the presence of setts.

## **Results of the assessment of the lands for badgers and bats**

### ***Badgers***

There are no badger setts within the site. Most mammal evidence was of rabbit warrens. There was also widespread evidence of fox activity (paw prints, scats, scent). Rat prints were also noted. In all, there were only two clear badger law prints within the site. One of these was leading from the track (possible right of way) to the remnants of a good hedgerow in the central field and north of here on the same field edge leading towards a farm gate onto the northern road.

There were no signs of badger digging and no badger latrines within the site. The badger paw prints were very recent and undisturbed. Given that local dogs were seen within the field, it is probable that the prints were less than two to three days old, or they would have been partially obscured by dog paw prints or rain.

### ***Bats***

#### **Species of bat present roosting within and around the site**

None

No bats were noted to roost within the site during this assessment either in 2018 or in 2020 or in 2022 and no bats or bat signs were noted in March 2021 in any of the buildings examined. There are no known bat roosts within the site. There is roost potential provided by buildings and trees but no clear evidence that these are occupied by bats. There is an indication that a brown long-eared bat may roost in the ruins, but no bat was seen in the building or emerging

from or returning to the building. This is despite several examinations of the building for bats, bat droppings or other evidence in 2018, 2020, 2021 and 2022.

There are also highly suitable buildings neighbouring the site including stables and residences. There were bats noted to fly towards a neighbouring house prior to sunrise in 2020 but this house will not be affected by the proposal.

#### **Species of bat present within and around the site**

Soprano pipistrelle *Pipistrellus pygmaeus*

Common pipistrelle *Pipistrellus pipistrellus*

Leisler's bat *Nyctalus leisleri*

Brown long-eared bat *Plecotus auritus*

*Myotis* bat *Myotis* sp. *Potentially whiskered bat*

(in September 2020 only and a single *Myotis* signal on 30<sup>th</sup> March 2022)

The most commonly encountered species in and around the site was common pipistrelle. This species was present in all survey periods and throughout the more sheltered areas of the site (i.e., the western and southwestern areas are very exposed and less suited to foraging behaviour. There is poor to nil hedgerow cover in this section.).

Bat activity prior to sunrise in 2018 indicated the presence of a roost in the houses to the north of the site but the exact location could not be proven due to access. Bat activity within and around the site prior to sunrise in 2020 was much lower than in summer 2018. In 2020, soprano pipistrelles were noted along the northern road prior to sunrise indicating that there is a likelihood that this species was roosting in one of the houses to the north of the site.

Soprano pipistrelles were not commonly encountered during the survey in 2018 or 2020 but there was higher activity in 2022 during the walked transect. The static monitor recorded a high number of passes even in years when the walked transect yielded low soprano pipistrelle activity. Soprano pipistrelles may feed within a short stretch in a sustained manner and the high number of signals may often be attributable to the same bat or very small numbers of bat.

Soprano pipistrelle activity commenced later than common pipistrelle and it is predicted that this species roosts further from the site than common pipistrelles.

Leisler's bats were very much in evidence in a summer survey in 2018 close to the houses to the north indicating the potential that there is a roost within these houses or associated buildings or trees. Leisler's bat activity was much less in 2020 and was concentrated close to a car garage to the southeast of the site while there was also a Leisler's bat signal earlier in the night to the north-east of the site. No Leisler's bats were noted in March 2022. This species is the least tolerant of low air temperatures. The temperature was 7°C by 20.50 hours during the March 2022 survey. Observations of the bat activity in March 2022 within the site indicated the presence of common and soprano pipistrelle and brown long-eared bat and a single *Myotis* bat signal which was most similar to Daubenton's bat in its structure.

In September 2020, *Myotis* bat signals were noted within the site and in a nearby garden. This was potentially a whiskered bat based on the spectrograms (graphs of the range of frequencies used against time). This bat was noted repeatedly feeding around the overgrown field area and neighbouring garden. It was present from 19.53 hours to 20.17 hours and again from 21.55 hours to 22.08 hours and occasionally throughout the rest of the night up to 05.48 hours. This bat was not seen to enter or emerge from any of the buildings within the site.

The first *Myotis* bat signal was noted along the hedgerow between the ruined cottage and the neighbouring garden at around 17.42 hours. The static monitor recorded the first *Myotis* signals close to the ruins at 17.53 hours. It is most probable that the bat was not emerging from the buildings and is roosting close-by in another location. The most likely roost site is the house and stables to the east of this field.



## **Potential Impacts from The Proposed Construction**

### **Loss of bat roosts**

While there were no bat roosts identified within the site, the presence of a number of old buildings and some mature trees creates some potential for roost sites. Overall, most trees within the site do not present high suitability as roost sites. There are larger trees separating two fields that more or less form a continuous single field that covers the centre of the site. If roosts are present, they are likely to harbour very small numbers of bats. This is currently considered a moderate negative impact of long-term duration.

### **Loss of commuting corridor**

There will be a loss of vegetation from the site including the removal of hedgerow. This may affect commuting bats by removing cover that allows commuting in an unlit area along the field edges. These are also landmarks by which badgers commute, but they are very also capable of moving away from hedgerow into open lands. Some hedgerows have been replaced by a simple earthen bank around or between fields. Hedgerow is better towards the southeast including a possible former tree lined track or right of way.

This is a permanent moderate negative impact for the local bat fauna with greater significance for populations roosting close to the site. It is a permanent slight negative impact for badgers based on the level of activity noted.

### **Loss of feeding area**

As above, there will be an impact upon the feeding activity of bats from the loss of the trees within and around the site. This will reduce feeding for bats by reducing the shelter and substrate for invertebrates. The most commonly encountered bat species are the two pipistrelle species. The presence of a *Myotis* species feeding within the site is uncommon and this species will lose some foraging areas.

There is potential for interruption to feeding for badgers as there is evidence of their presence within the site. This is a long-term to permanent moderate negative impact for bats. It is a permanent slight negative impact for badgers.

### **Disturbance from lighting**

Lighting can affect different species to varying degrees and within species there is also a range of responses to introduced light ranging from minimal effects to complete avoidance. Badgers in urban areas can become very tolerant to light but in rural areas are typically in unlit areas. Bats may actively avoid lights especially if it is shining upon a roost site.

There is no evidence of sustained activity by badgers or widespread evidence of badger activity, but it is probable that badgers cover more of the site than noted in this evaluation at some point in the year to forage.

This is a long-term to permanent moderate negative impact for bats and a short-term to medium-term slight to negligible negative impact for otters.

### **Cumulative impacts of the above**

There is a loss of green area and of tree cover that will affect bats by reducing feeding and commuting areas. This is unlikely to have a direct impact on the status of any of these species, but it is contributory in a minor way to an overall diminution in habitat availability.

### **Proposed Mitigation**

#### **Examination of all buildings prior to demolition**

All buildings (the cottage, sheds, and other buildings) shall be examined by a bat specialist for the presence of bats prior to and during demolition. If bats are discovered, the structure is protected under the Wildlife Act as a bat roost and a derogation must be sought from NPWS for the exclusion of bats by a bat specialist and any additional required mitigation.

#### **Checking of trees for bats**

Following a tree assessment of the site, any trees with cavities shall be checked by a bat specialist prior to felling. If bats are present, a derogation shall be sought from NPWS and additional measures to mitigate the loss of a roost shall be implemented.

## **Examination of all lands for badgers prior to major clearance operations**

The site shall be examined prior to clearance for the presence of badger setts.

## **Lighting control**

Lighting around the buildings shall be tightly controlled and ornamental lighting shall be avoided entirely. Lighting should respond to a motion trigger or be switched off at night after typical active hours (e.g., 11 pm to 6 am). Spotlights must not be introduced as these are hugely disruptive to most wildlife and cannot be targeted to the required area but create light pollution over a huge radius.

Further recommendations on lighting are given below:

- Dark corridor for movement of bats through the site. Lighting shall be directed downwards away from the treetops.
- All luminaires shall lack UV elements when manufactured and shall be LED
- A warm white spectrum (ideally <2700 Kelvin) shall be adopted to reduce blue light component
- Luminaires shall feature peak wavelengths higher than 550 nm
- Planting shall provide areas of darkness suitable for bats and badgers to feed and commute through the site.
- Areas of retained vegetation in the northeast and the farmyard to the east as well as the green areas along the western perimeter shall not be illuminated.

## **Checking of lighting within the completed site by bat specialist**

Lighting shall be checked following installation by a bat specialist to ensure that there are suitably dark areas for bats to feed and commute in areas proposed within this assessment. This shall include an evaluation of bat activity within the site following installation of lighting and construction of housing.

### **Planting of Insect Attracting Plants and Trees**

Vegetation to provide food and shelter for wildlife should be encouraged. This may include the re-planting of some of the trees removed from hedgerow or trees such as alder, willow, birch which would tolerate wet conditions. Plants such as *Lonicera periclymenum* (honeysuckle) are beneficial to moths and other nocturnal insects while *Hebe* are beneficial to daytime Lepidoptera and some night insects. Bees would benefit from lavender, jasmine, rosemary, violets, thyme, blue bells, wisteria, cone flowers and sunflowers. The wider abundance of insects would benefit bats and badgers as well as improve biodiversity generally.

### **Retention of grassy areas and vegetation in preference to concrete pathways / stone gardens etc.**

Consideration should be given to providing greater vegetation relative to paved or concreted areas wherever possible. This could include a system that allows grass paving, grass reinforcement or a grass grid. This allows rainwater to soak away as solid concrete can create greater run-off.

### **Provision of bat boxes**

Bat boxes shall be provided to compensate for the potential loss of roost sites from building demolition and tree removal. 15 x 2F Schwegler bat boxes are proposed or alternatively the provision of access for bats to elements of buildings. All boxes shall be away from illumination.

### **IMPACTS AFTER MITIGATION**

There is the potential for reduced feeding for bats within the proposed development due to a reduction in vegetation in the eastern area of the site. Light pollution control and planting will lessen the impact of this.

Bats will avail of bat boxes or other modifications within the site to roost over a period of time once the siting, lighting and absence of disturbance is observed.



**Proposed development layout**

Areas indicated red boxes must be managed for control of lighting to provide darker areas for bats



**Buildings that will be removed within the site**



**Wall plaster, window frames, chimney and checked for bats in September and March**



**Lighting from the garage and house on the edge of the site in September 2020**



**House from top right image in daylight and good vegetation cover along the field leading towards this area.**



**Dense bramble near to the field with derelict buildings.**

No setts were visible in this area and no fresh mammal tracks were noted.





**Badger paw prints noted in March 2021.**

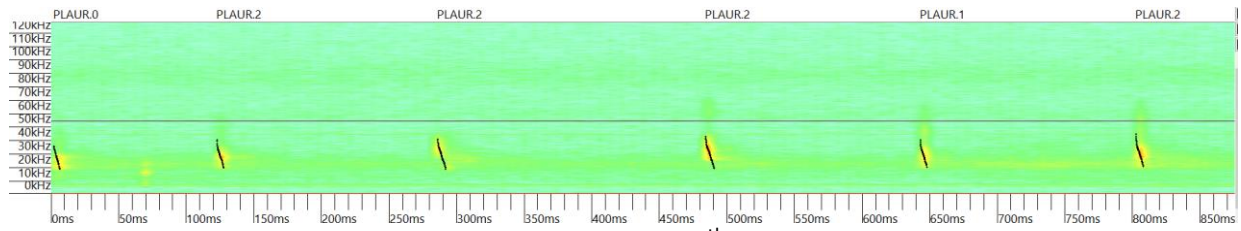
The top left and bottom left image are along the track with tree cover to each side (old right of way?). The top right and bottom right are heading north past the most overgrown field.



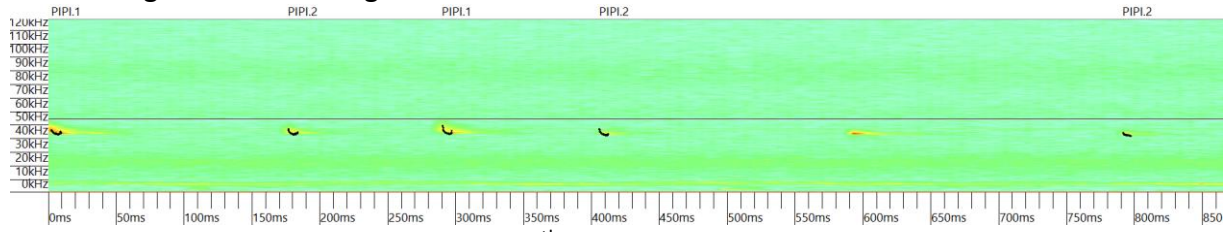
Bat activity within the site March 29<sup>th</sup> to 30<sup>th</sup> 2022 (Post dusk)

*Legend*

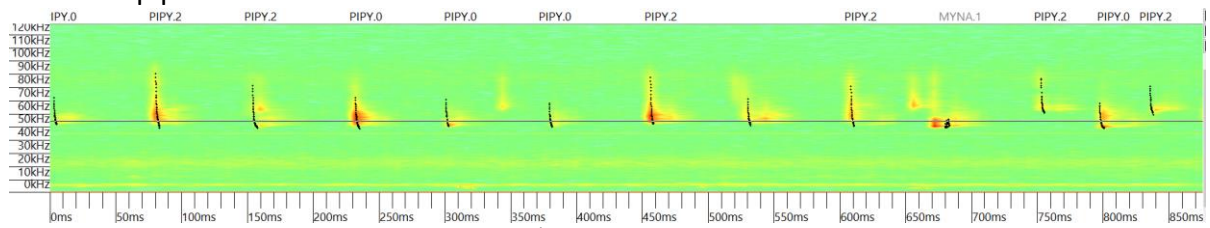
*Green paddle*   *Common pipistrelle*   *Blue paddle*   *Soprano pipistrelle*  
*"B" paddle*   *Brown long-eared bat*



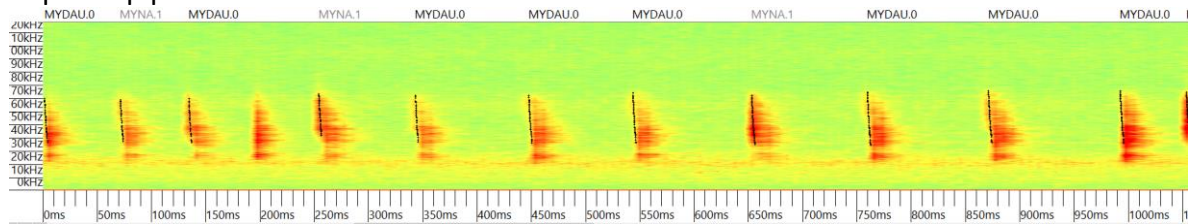
Brown long-eared bat sonogram at 20.38 hours on 29<sup>th</sup> March 2022



Common pipistrelle at 20.08 hours on 29<sup>th</sup> March 2022



Soprano pipistrelle at 21.10 hours on 29<sup>th</sup> March 2022



*Myotis* bat signal at 02.52 hours on 30<sup>th</sup> March 2022 at the ruins (DST)



Post dusk 31<sup>st</sup> July 2018



Combined 2018 and post dusk 27<sup>th</sup> September 2020



Pre-dawn 1<sup>st</sup> August 2018



Combined 2018 Predawn 28<sup>th</sup> September 2020

*Legend*

*Common pipistrelle 2018*

*Blue paddle Soprano pipistrelle 2018*

*Yellow paddle Leisler's bat 2018*

*Green square Common pipistrelle 2020*

*Blue square Soprano pipistrelle 2020*

*Yellow square Leisler's bat 2020*

*White square Myotis bat 2020*

**Bat activity from sunset 27<sup>th</sup> September 2020 to sunrise 28<sup>th</sup> September 2020 (static monitor)**

DATE	TIME	AUTO ID	PULSES	MATCHING	MANUAL ID
27/09/2020	19:29:14	PIPI	22	13	PIPI PIPY
27/09/2020	19:29:19	PIPI	14	13	PIPI PIPY
27/09/2020	19:29:53	NoID	11	0	PIPY
27/09/2020	19:30:02	PIPY	12	12	PIPY
27/09/2020	19:30:14	PIPY	34	26	PIPI PIPY
27/09/2020	19:30:19	PIPY	21	21	PIPY
27/09/2020	19:30:24	PIPY	19	19	PIPY
27/09/2020	19:30:37	PIPY	26	26	PIPY
27/09/2020	19:30:42	PIPY	14	14	PIPY
27/09/2020	19:30:47	PIPY	18	18	PIPY
27/09/2020	19:30:52	PIPY	6	5	PIPY
27/09/2020	19:31:16	NYLE	3	3	NYLE
27/09/2020	19:33:50	PIPI	26	18	PIPI
27/09/2020	19:33:55	PIPI	15	14	PIPI
27/09/2020	19:34:00	PIPI	3	3	PIPI
27/09/2020	19:36:46	PIPI	26	23	PIPI
27/09/2020	19:42:28	NYLE	3	3	NYLE
27/09/2020	19:45:25	PIPI	7	7	PIPI
27/09/2020	19:47:11	PIPI	12	11	PIPI
27/09/2020	19:47:24	PIPI	16	16	PIPI
27/09/2020	19:48:57	PIPY	10	8	PIPY
27/09/2020	19:51:15	PIPI	15	13	PIPI
27/09/2020	19:53:43	MYBR	3	2	MYOTIS
27/09/2020	19:54:31	MYBR	4	2	MYOTIS
27/09/2020	19:54:51	MYBR	2	2	MYOTIS
27/09/2020	19:55:03	NoID	1	0	MYOTIS
27/09/2020	19:55:23	PIPI	3	2	MYOTIS
27/09/2020	19:55:33	MYBR	4	3	MYOTIS
27/09/2020	19:56:27	MYBR	3	3	MYOTIS
27/09/2020	19:56:40	NoID	2	0	MYOTIS
27/09/2020	19:56:45	NoID	2	0	MYOTIS
27/09/2020	19:57:04	NoID	2	0	MYOTIS
27/09/2020	19:57:36	NoID	2	0	MYOTIS
27/09/2020	19:58:31	NoID	1	0	MYOTIS
27/09/2020	19:58:36	NoID	1	0	MYOTIS
27/09/2020	19:59:11	NoID	2	0	MYOTIS
27/09/2020	19:59:58	MYBR	2	2	MYOTIS
27/09/2020	20:00:45	MYBR	2	2	MYOTIS
27/09/2020	20:00:58	PIPI	4	2	MYOTIS
27/09/2020	20:01:03	PIPI	19	17	PIPI Myotis
27/09/2020	20:01:22	PIPI	3	2	MYOTIS
27/09/2020	20:01:27	MYBR	4	2	MYOTIS
27/09/2020	20:01:44	NoID	1	0	MYOTIS

27/09/2020	20:03:35	PIPI	2	2	MYOTIS
27/09/2020	20:04:15	MYBR	3	3	MYOTIS
27/09/2020	20:04:20	NoID	4	0	MYOTIS
27/09/2020	20:04:53	MYBR	4	2	MYOTIS
27/09/2020	20:05:02	MYBR	3	3	MYOTIS
27/09/2020	20:05:45	MYBR	3	2	MYOTIS
27/09/2020	20:06:00	PIPI	3	2	MYOTIS
27/09/2020	20:06:10	MYBR	2	2	MYOTIS
27/09/2020	20:06:19	NoID	2	0	MYOTIS
27/09/2020	20:06:26	MYBR	2	2	MYOTIS
27/09/2020	20:06:37	MYBR	2	2	MYOTIS
27/09/2020	20:07:33	PIPY	16	14	PIPY MYOTIS
27/09/2020	20:08:02	NoID	2	0	MYOTIS
27/09/2020	20:08:07	MYBR	2	2	MYOTIS
27/09/2020	20:08:39	NoID	2	0	MYOTIS
27/09/2020	20:08:44	MYBR	3	2	MYOTIS
27/09/2020	20:09:08	MYNA	3	2	MYOTIS
27/09/2020	20:09:13	MYBR	5	4	MYOTIS
27/09/2020	20:09:18	MYBR	3	2	MYOTIS
27/09/2020	20:09:28	MYBR	5	5	MYOTIS
27/09/2020	20:09:33	MYBR	3	3	MYOTIS
27/09/2020	20:09:45	MYBR	3	2	MYOTIS
27/09/2020	20:09:50	MYBR	4	3	MYOTIS
27/09/2020	20:10:05	MYBR	2	2	MYOTIS
27/09/2020	20:10:10	MYBR	5	3	MYOTIS
27/09/2020	20:10:24	NoID	2	0	MYOTIS
27/09/2020	20:10:46	NoID	2	0	MYOTIS
27/09/2020	20:10:51	NoID	2	0	MYOTIS
27/09/2020	20:10:56	NoID	1	0	MYOTIS
27/09/2020	20:11:12	MYBR	3	3	MYOTIS
27/09/2020	20:11:38	NoID	2	0	MYOTIS
27/09/2020	20:11:43	MYBR	3	3	MYOTIS
27/09/2020	20:12:09	PIPI	2	2	MYOTIS
27/09/2020	20:12:14	MYBR	3	2	MYOTIS
27/09/2020	20:12:35	NoID	3	0	MYOTIS
27/09/2020	20:12:45	NoID	3	0	MYOTIS
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27/09/2020	20:36:53	PIPY	11	11	PIPY
27/09/2020	20:36:58	PIPY	12	12	PIPY
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27/09/2020	20:42:03	PIPY	11	11	PIPY



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27/09/2020	20:42:39	PIPY	6	6	PIPY
27/09/2020	20:42:44	NoID	3	0	PIPY
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27/09/2020	20:43:03	PIPY	9	6	PIPY
27/09/2020	20:43:45	NYLE	4	4	PIPY
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27/09/2020	22:10:15	PIPY	25	24	PIPY
27/09/2020	22:10:20	PIPY	10	10	PIPY
27/09/2020	22:10:25	PIPY	13	11	PIPY
27/09/2020	22:10:30	PIPY	17	13	PIPY
27/09/2020	22:10:35	PIPY	10	7	PIPY

27/09/2020	22:10:41	PIPY	11	9	PIPY
27/09/2020	22:10:46	PIPY	23	18	PIPY
27/09/2020	22:10:51	PIPY	9	9	PIPY
27/09/2020	22:10:56	PIPY	23	20	PIPY
27/09/2020	22:11:01	PIPY	13	12	PIPY
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27/09/2020	22:13:09	PIPY	14	13	PIPY
27/09/2020	22:13:14	PIPY	6	4	PIPY
27/09/2020	22:13:19	PIPY	17	16	PIPY
27/09/2020	22:13:25	PIPY	17	14	PIPY
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27/09/2020	22:15:00	PIPY	2	2	PIPY
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27/09/2020	22:15:41	PIPY	17	16	PIPY
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27/09/2020	22:19:58	PIPY	18	14	PIPY
27/09/2020	22:20:20	PIPY	14	13	PIPY
27/09/2020	22:20:25	PIPY	22	20	PIPY
27/09/2020	22:20:30	PIPY	16	12	PIPY

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27/09/2020	22:33:45	PIPY	23	22	PIPY
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27/09/2020	22:59:42	PIPY	17	15	PIPY
27/09/2020	22:59:47	PIPY	17	16	PIPY
27/09/2020	22:59:52	PIPY	8	6	PIPY
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27/09/2020	23:35:55	PIPI	16	15	PIPI
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27/09/2020	23:47:43	PIPY	20	20	PIPY
27/09/2020	23:47:48	PIPY	16	16	PIPY
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28/09/2020	00:00:16	PIPY	8	7	PIPY
28/09/2020	00:00:36	PIPY	11	11	PIPY
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28/09/2020	00:01:55	PIPY	16	13	PIPY
28/09/2020	00:02:00	PIPY	11	10	PIPY
28/09/2020	00:02:05	PIPY	14	13	PIPY
28/09/2020	00:02:10	PIPY	10	9	PIPY
28/09/2020	00:02:15	MYBR	3	2	PIPY MYOTIS
28/09/2020	00:02:21	PIPI	5	3	MYOTIS
28/09/2020	00:27:26	PIPY	19	17	PIPY
28/09/2020	00:27:31	PIPY	13	13	PIPY
28/09/2020	00:27:59	PIPY	9	8	PIPY
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28/09/2020	00:29:43	PIPY	6	5	PIPY
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28/09/2020	00:31:34	PIPY	7	5	PIPY
28/09/2020	00:32:00	PIPY	18	17	PIPY
28/09/2020	00:32:05	PIPY	23	21	PIPY
28/09/2020	00:32:10	PIPY	17	16	PIPY
28/09/2020	00:32:16	PIPY	14	14	PIPY
28/09/2020	00:32:21	PIPY	12	12	PIPY
28/09/2020	00:42:33	PIPY	8	7	PIPY
28/09/2020	00:42:38	PIPY	19	18	PIPY
28/09/2020	00:42:43	PIPY	14	13	PIPY
28/09/2020	00:43:04	PIPY	16	12	PIPY
28/09/2020	00:43:09	PIPY	10	9	PIPY
28/09/2020	00:43:14	PIPY	6	6	PIPY
28/09/2020	00:43:20	PIPY	7	6	PIPY
28/09/2020	00:43:25	PIPY	16	16	PIPY
28/09/2020	00:43:30	PIPY	12	12	PIPY

28/09/2020	00:43:36	PIPY	14	12	PIPY
28/09/2020	00:43:41	PIPY	16	16	PIPY
28/09/2020	00:43:46	PIPY	18	17	PIPY
28/09/2020	00:43:51	PIPY	33	32	PIPY
28/09/2020	00:43:56	PIPY	14	13	PIPY
28/09/2020	00:44:01	PIPY	12	10	PIPY
28/09/2020	00:44:06	PIPY	12	10	PIPY
28/09/2020	00:46:34	PIPY	17	17	PIPY
28/09/2020	00:46:39	PIPY	11	10	PIPY
28/09/2020	00:46:44	PIPY	16	15	PIPY
28/09/2020	00:46:50	PIPY	13	13	PIPY
28/09/2020	00:46:55	PIPY	22	22	PIPY
28/09/2020	00:47:00	PIPY	14	14	PIPY
28/09/2020	00:47:06	PIPY	11	10	PIPY
28/09/2020	00:47:11	PIPY	13	12	PIPY
28/09/2020	00:47:16	PIPY	13	12	PIPY
28/09/2020	00:47:21	PIPY	20	20	PIPY
28/09/2020	00:47:26	PIPY	27	26	PIPY
28/09/2020	00:47:31	PIPY	15	15	PIPY
28/09/2020	00:47:36	PIPY	14	13	PIPY
28/09/2020	00:47:41	PIPY	16	14	PIPY
28/09/2020	00:47:46	PIPY	2	2	PIPY
28/09/2020	01:00:05	PIPY	15	14	PIPY
28/09/2020	01:00:10	PIPY	12	12	PIPY
28/09/2020	01:00:15	PIPY	16	16	PIPY
28/09/2020	01:00:21	PIPY	5	5	PIPY
28/09/2020	01:11:32	PIPY	9	7	PIPY
28/09/2020	01:27:54	MYBR	4	2	
28/09/2020	01:39:49	PIPY	22	22	
28/09/2020	01:39:58	PIPY	17	17	
28/09/2020	01:40:03	PIPY	9	7	
28/09/2020	01:53:37	PIPI	14	14	
28/09/2020	01:58:07	MYBR	2	2	MYOTIS
28/09/2020	02:27:07	MYBR	2	2	MYOTIS
28/09/2020	02:27:12	PINA	3	2	MYOTIS
28/09/2020	02:27:24	NoID	3	0	MYOTIS
28/09/2020	02:35:18	NoID	1	0	MYOTIS
28/09/2020	03:54:48	MYBR	5	4	MYOTIS
28/09/2020	03:56:33	NoID	1	0	MYOTIS
28/09/2020	03:56:38	PIPI	3	2	MYOTIS
28/09/2020	03:56:54	NoID	1	0	MYOTIS
28/09/2020	04:39:10	PIPI	25	25	PIPI
28/09/2020	04:39:15	PIPI	10	10	PIPI
28/09/2020	04:57:53	PIPY	11	10	PIPY
28/09/2020	04:57:58	PIPY	2	2	PIPY
28/09/2020	04:58:09	PIPY	15	15	PIPY

28/09/2020	04:58:14	PIPY	16	16	PIPY
28/09/2020	04:58:19	PIPY	3	3	PIPY
28/09/2020	04:58:28	PIPY	5	5	PIPY
28/09/2020	04:58:34	PIPY	20	17	PIPY
28/09/2020	04:58:39	PIPY	24	24	PIPY
28/09/2020	04:58:44	PIPY	4	4	PIPY
28/09/2020	05:04:55	PIPI	16	16	PIPI
28/09/2020	05:05:00	PIPI	6	6	PIPI
28/09/2020	05:18:32	PIPY	13	13	PIPY
28/09/2020	05:18:37	PIPY	17	16	PIPY
28/09/2020	05:18:42	PIPY	17	15	PIPY
28/09/2020	05:18:48	PIPY	33	32	PIPY
28/09/2020	05:18:53	PIPY	13	12	PIPY
28/09/2020	05:18:58	PIPY	9	8	PIPY
28/09/2020	05:19:39	PIPY	13	11	PIPY
28/09/2020	05:24:37	PIPY	15	15	PIPY
28/09/2020	05:24:42	PIPY	11	11	PIPY
28/09/2020	05:24:47	PIPY	26	26	PIPY
28/09/2020	05:24:52	PIPY	12	12	PIPY
28/09/2020	05:24:57	PIPY	13	12	PIPY
28/09/2020	05:25:02	PIPY	9	9	PIPY
28/09/2020	05:25:08	PIPY	18	16	PIPY
28/09/2020	05:25:13	PIPY	8	8	PIPY
28/09/2020	05:25:18	PIPY	19	16	PIPY
28/09/2020	05:25:25	PIPY	3	3	PIPY
28/09/2020	05:29:19	PIPY	12	12	PIPY
28/09/2020	05:32:55	PIPY	12	10	PIPY
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28/09/2020	06:11:13	PIPY	12	12	PIPY
28/09/2020	06:23:06	PIPI	20	20	PIPI
28/09/2020	06:23:11	PIPI	17	14	PIPI
28/09/2020	06:23:16	PIPI	17	15	PIPI
28/09/2020	06:23:23	PIPI	17	14	PIPI
28/09/2020	06:23:30	PIPI	5	5	PIPI
28/09/2020	06:23:38	PIPI	24	20	PIPI
28/09/2020	06:33:07	PIPI	30	26	PIPI
28/09/2020	06:33:12	PIPI	7	7	PIPI
28/09/2020	06:33:25	PIPI	14	13	PIPI
28/09/2020	06:33:31	PIPI	37	33	PIPI
28/09/2020	06:33:36	PIPI	23	21	PIPI
8/09/2020	06:33:41	PIPI	24	22	PIPI
28/09/2020	06:33:46	PIPI	7	7	PIPI
28/09/2020	06:33:53	PIPI	29	24	PIPI

28/09/2020	06:33:58	PIPI	9	9	PIPI
28/09/2020	06:34:07	PIPI	30	26	PIPI
28/09/2020	06:34:12	PIPI	35	32	PIPI
28/09/2020	06:34:17	PIPI	17	13	PIPI
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28/09/2020	06:40:10	NoID	2	0	NYLE
28/09/2020	06:40:48	PIPI	37	32	PIPI
28/09/2020	06:40:53	PIPI	38	33	PIPI
28/09/2020	06:40:58	PIPI	37	30	PIPI
28/09/2020	06:41:03	PIPI	35	32	PIPI
28/09/2020	06:41:08	PIPI	22	19	PIPI
28/09/2020	06:46:50	PIPI	18	18	PIPI
28/09/2020	06:49:34	MYBR	3	2	Noise
28/09/2020	06:49:43	MYBR	4	2	Noise
28/09/2020	06:50:30	PIPI	13	9	PIPI
28/09/2020	06:50:45	PIPI	17	15	PIPI
28/09/2020	06:50:54	PIPI	26	20	PIPI
28/09/2020	06:50:59	PIPI	11	10	PIPI
28/09/2020	06:53:08	PIPI	25	21	PIPI
28/09/2020	06:53:13	PIPY	18	10	PIPY
28/09/2020	06:53:18	PIPY	19	16	PIPY
28/09/2020	06:53:24	PIPY	13	12	PIPY
28/09/2020	06:53:29	PIPY	7	7	PIPY
28/09/2020	06:54:15	PIPI	30	28	PIPI
28/09/2020	06:54:20	PIPI	29	25	PIPI
28/09/2020	06:54:31	PIPI	38	38	PIPI
28/09/2020	06:54:36	PIPI	25	24	PIPI
28/09/2020	06:54:41	PIPI	6	6	PIPI
28/09/2020	06:55:03	PIPI	34	33	PIPI
28/09/2020	06:55:08	PIPI	2	2	PIPI
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28/09/2020	06:55:30	PIPI	15	14	PIPI
28/09/2020	06:55:35	PIPI	26	24	PIPI
28/09/2020	06:55:40	PIPI	36	34	PIPI
28/09/2020	06:55:45	PIPI	20	17	PIPI
28/09/2020	06:55:58	PIPI	34	32	PIPI
28/09/2020	06:56:03	PIPI	25	25	PIPI
28/09/2020	06:56:08	PIPI	20	17	PIPI
28/09/2020	06:56:13	PIPI	34	27	PIPI
28/09/2020	06:56:18	PIPI	9	9	PIPI
28/09/2020	06:56:28	PIPI	17	16	PIPI
28/09/2020	06:56:33	PIPI	34	34	PIPI

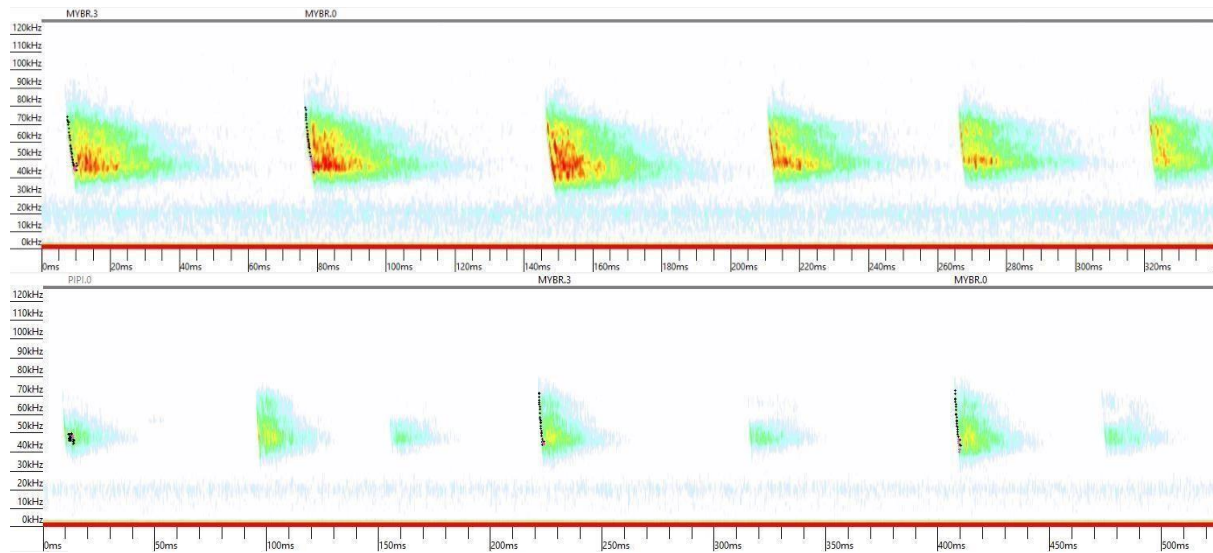
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28/09/2020	06:56:43	PIPI	22	19	PIPI
28/09/2020	06:56:48	PIPI	16	14	PIPI
28/09/2020	06:56:53	NoID	2	0	PIPI
28/09/2020	06:56:58	PIPI	11	10	PIPI
28/09/2020	06:57:08	PIPI	2	2	PIPI
28/09/2020	06:57:15	PIPI	24	23	PIPI
28/09/2020	06:57:46	PIPI	10	10	PIPI
28/09/2020	06:57:52	PIPI	31	30	PIPI
28/09/2020	06:57:57	PIPI	30	19	PIPI
28/09/2020	06:58:02	PIPY	19	15	PIPY
28/09/2020	06:58:07	PIPI	4	4	PIPI
28/09/2020	06:58:25	PIPI	23	20	PIPI
28/09/2020	06:58:30	PIPI	16	13	PIPI
28/09/2020	06:58:35	PIPI	22	20	PIPI
28/09/2020	06:58:41	PIPI	23	21	PIPI
28/09/2020	06:58:46	PIPI	7	7	PIPI
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28/09/2020	06:58:58	PIPI	20	16	PIPI
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28/09/2020	06:59:27	PIPI	4	4	PIPI
28/09/2020	06:59:33	PIPY	18	16	PIPY
28/09/2020	06:59:38	PIPY	24	15	PIPI PIPY
28/09/2020	06:59:43	PIPY	8	7	PIPY
28/09/2020	06:59:49	PIPY	10	10	PIPY
28/09/2020	06:59:54	PIPY	12	11	PIPY
28/09/2020	06:59:59	PIPY	12	10	PIPY
28/09/2020	07:00:04	PIPI	21	9	PIPI PIPY
28/09/2020	07:00:09	PIPY	16	16	PIPY
28/09/2020	07:00:14	PIPY	11	9	PIPY
28/09/2020	07:00:20	PIPY	20	20	PIPY
28/09/2020	07:00:25	PIPY	8	8	PIPY
28/09/2020	07:00:34	PIPY	21	21	PIPY
28/09/2020	07:01:03	PIPY	14	14	PIPY
28/09/2020	07:01:08	PIPY	25	25	PIPY
28/09/2020	07:01:13	PIPY	12	11	PIPY
28/09/2020	07:01:19	PIPY	15	15	PIPY
28/09/2020	07:01:24	PIPY	21	20	PIPY
28/09/2020	07:01:29	PIPY	18	18	PIPY
28/09/2020	07:01:34	PIPY	26	26	PIPY
28/09/2020	07:01:39	PIPY	19	19	PIPY
28/09/2020	07:01:44	PIPY	20	19	PIPY
28/09/2020	07:01:50	PIPY	18	18	PIPY
28/09/2020	07:01:55	PIPY	17	17	PIPY



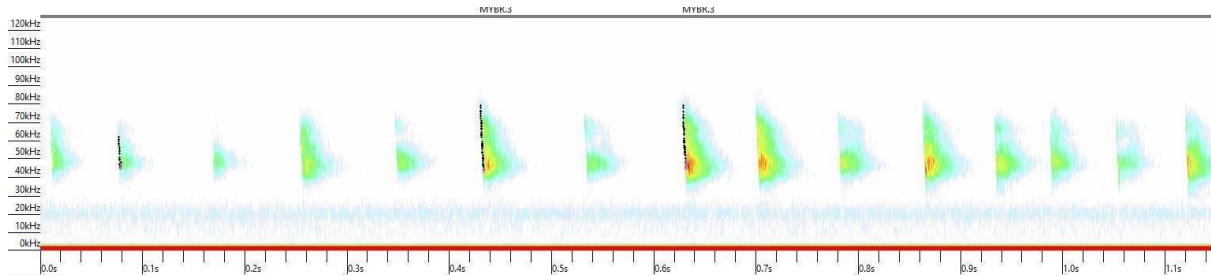
28/09/2020	07:02:00	PIPY	10	10	PIPY
28/09/2020	07:02:05	PIPY	10	10	PIPY
28/09/2020	07:02:22	PIPY	19	19	PIPY
28/09/2020	07:02:33	PIPY	8	8	PIPY

**Bat activity prior to sunrise 28<sup>th</sup> September 2020 (handheld EM3 results)**

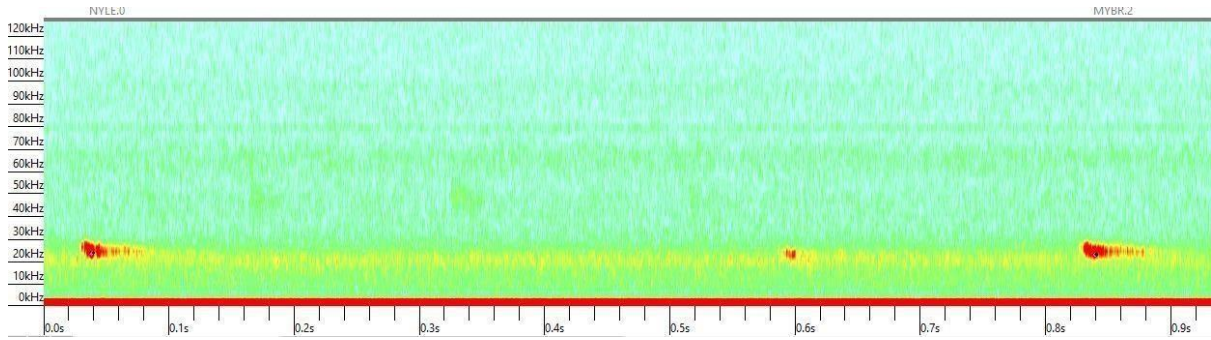
DATE	TIME	AUTO ID	PULSES	MATCHING	MANUAL ID
28/09/2020	06:23:12	PIPY	3	3	PIPY
28/09/2020	06:23:17	PIPY	4	4	PIPY
8/09/2020	06:23:22	PIPY	8	8	PIPY
28/09/2020	06:23:27	PIPY	2	2	PIPY
28/09/2020	06:23:37	PIPY	12	12	PIPY
28/09/2020	06:24:48	PIPI	26	17	PIPI
28/09/2020	06:58:45	PIPY	8	8	PIPY



***Myotis* bat at 19.53 hours (first signal recorded by static monitor) 20.05 hours 27<sup>th</sup> September 2020 in overgrown field.**

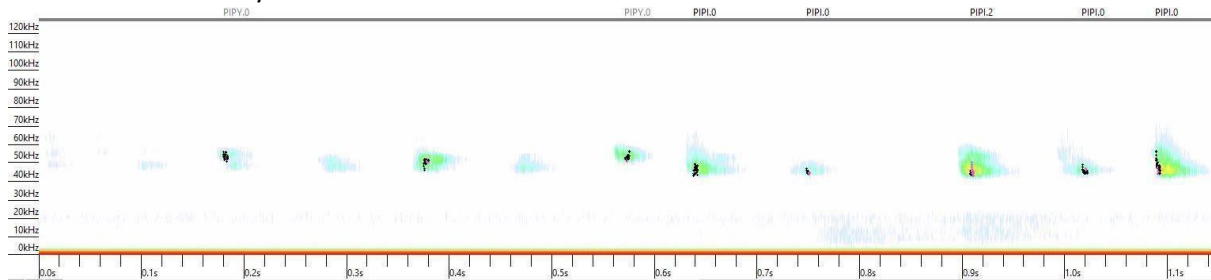


**Myotis bat at 20.09 hours 27<sup>th</sup> September 2020 in overgrown field**



**Leisler's bat at 06.40 hours on 28<sup>th</sup> September 2020**

This species was much less in evidence in 2020 than in 2018. This suggests that there was a Leisler's bat roost to the north of the site in July 2018. Most Leisler's bat activity in 2020 was towards the southeast



**Common and soprano pipistrelle at 19.29 hours close to the overgrown field 27<sup>th</sup> September 2020**

## Summary of results from 2018

### Existing Environment

#### *Bat fauna roosting within the site*

None

At the time of survey in July 2018, no bats were seen to enter or emerge from a tree or building within the site. There was bat activity late into the morning around the buildings within the site, but bats were noted to slowly drift away from the buildings while feeding towards houses along the road including the nearest occupied house.

The last bats noted; Leisler's bats (see below) were noted to fly towards houses to the north of the site and it is possible that one of the houses directly north of the site is a roost site to this species.

Both pipistrelle species were present late into the morning but with common pipistrelle present up to 05.23 hours and the last soprano pipistrelle signal at 04.45 hours. Clearly common pipistrelles are roosting very close to the site and most probably closer than soprano pipistrelles.

Bat fauna feeding and commuting within and through the site - Common

Pipistrelle *Pipistrellus pipistrellus*

Soprano Pipistrelle *Pipistrellus pygmaeus*

Leisler's bat *Nyctalus leisleri*

The vast majority of bat activity was of common pipistrelle. This species fed along the public road, around the buildings, along hedgerow and mature trees. The only areas where activity was absent was where hedgerow was absent or very poorly developed. Bats were present from before 21.50 hours and were present up to 05.23 hours. There was near-constant activity along the public road over most of the survey period.

Soprano pipistrelles were present to a much lesser extent but were present in several locations within the fields including a moderate hedge, a double-tree line, and the overgrown field in which the buildings are.

Leisler's bat activity was noted right up to 05.32 hours as bats were occasionally observed flying closer and closer to houses north of the site.

Leisler's bats were not noted within the fields early in the night and it is possible that much of the feeding is done over a distance of several kilometres. Most activity recorded was associated with bats returning to the roost, but it is possible that earlier activity was missed if the bats flew away quickly after emerging.

**Bat Conservation Ireland data: search results 6 Oct 2018**

Search parameters: Roosts Transects Ad-hoc observation sites with observations of all bats within 10000m of T1374959426.

## Roosts

Name	Grid reference	Address	Species observed
Ballinclare House;	T095542	Ballinclare House;	Myotis spp.; Nyctalus leisleri; Pipistrellus
Ballinclare;		Ballinclare; Camolin;	pipistrellus (45kHz); Pipistrellus pygmaeus; Plecotus auritus
Ballinclair House;	T101543	Ballinclair House;	Nyctalus leisleri; Pipistrellus pipistrellus (45kHz);
Ballinclair; Camolin		Ballinclair; Camolin;	Pipistrellus pygmaeus
Building at Ballyeden	T065527	Camolin;	Plecotus auritus
D'Arcy Residence;	T128558	D'Arcy Residence;	Pipistrellus pygmaeus; Plecotus auritus
Moneycross Upper;		Moneycross Upper;	
Clogh;		Clogh;	
Hilton Cottage;	T177593	Hilton Cottage;	Pipistrellus pipistrellus (45kHz); Pipistrellus
Raheenagurren East;		Raheenagurren East;	pygmaeus; Plecotus auritus
Gorey;		Gorey;	
Inch Church; Inch;	T191668	Inch Church; Inch;	Myotis nattereri; Myotis spp.; Nyctalus leisleri; Pipistrellus pipistrellus (45kHz); Pipistrellus pygmaeus; Plecotus auritus
Leskinfrere Church		T122560 Leskinfrere Church;	Myotis nattereri; Nyctalus leisleri; Pipistrellus Clogh; pipistrellus (45kHz); Pipistrellus pygmaeus
Leskinfrere Church	T1223156070	Gorey	Myotis nattereri of Ireland
Lorcan Allen;	T176587	Lorcan Allen;	Pipistrellus pygmaeus
Raheenagurren East;		Raheenagurren East;	
Gorey;		Gorey;	
Marlfield House;	T167588	Marlfield House; Gorey	Myotis daubentonii; Pipistrellus pipistrellus (45kHz);
Gorey.			Pipistrellus pygmaeus
Summerville House	T121558	Clogh;	Unidentified bat
Tinnock Upper	T16976418	Tinnock Upper;rGorey;	Pipistrellus pipistrellus (45kHz)

## Transects

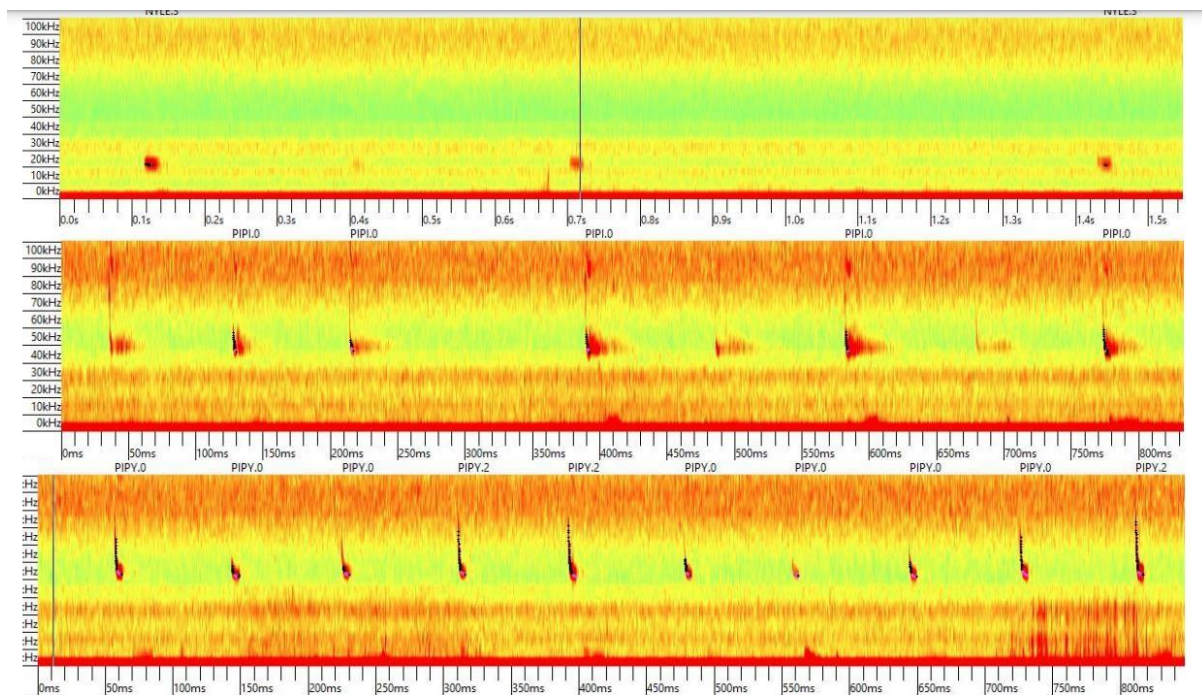
Name	Grid reference start	Species
Laraheen Transect	T133642	Myotis daubentonii; Pipistrellus spp. (45kHz/55kHz); Unidentified bat
Margerry's Bridge Transect	T1112159219	Myotis daubentonii; Unidentified bat

T05 (12) 2003-		T072598	Myotis spp.; Nyctalus leisleri; Pipistrellus pipistrellus (45kHz);Pipistrellus spp. (45kHz/55kHz)
T05 (13) 2003-	T061572		Nyctalus leisleri; Pipistrellus nathusii; Pipistrellus pipistrellus (45kHz);Pipistrellus pygmaeus; Pipistrellus spp. (45kHz/55kHz);Plecotus auritus; Unidentified bat
T05 (16) 2003-2008	T069520		Pipistrellus pipistrellus (45kHz);Pipistrellus pygmaeus
T05 (17) 2003-2008		T111532	Nyctalus leisleri; Pipistrellus pipistrellus (45kHz);Pipistrellus pygmaeus; Pipistrellus spp. (45kHz/55kHz);Plecotus auritus
T05 (18) 2003-2008		T136557	Nyctalus leisleri; Pipistrellus pipistrellus (45kHz);Pipistrellus pygmaeus; Pipistrellus spp. (45kHz/55kHz)
T05 (19) 2003-2008		T148541	Nyctalus leisleri; Pipistrellus pipistrellus (45kHz);Pipistrellus pygmaeus; Pipistrellus spp. (45kHz/55kHz)
T05 (20) 2003-2008		T184544	Pipistrellus pipistrellus (45kHz);Pipistrellus pygmaeus; Pipistrellus spp. (45kHz/55kHz)
T05 (5) 2003-		T111687	Myotis spp.; Nyctalus leisleri; Pipistrellus pipistrellus (45kHz);Pipistrellus pygmaeus; Pipistrellus spp. (45kHz/55kHz);Unidentified bat
T05 (6) 2003-		T153661	Myotis spp. ;Nyctalus leisleri; Pipistrellus pipistrellus (45kHz);Pipistrellus pygmaeus; Pipistrellus spp. (45kHz/55kHz);Unidentified bat
T05 (7) 2003-	T112643		Nyctalus leisleri; Pipistrellus pipistrellus (45kHz);Pipistrellus pygmaeus; Pipistrellus spp. (45kHz/55kHz);Plecotus auritus; Unidentified bat
T05 (8) 2003-	T076664		Nyctalus leisleri; Pipistrellus pipistrellus (45kHz);Pipistrellus pygmaeus; Pipistrellus spp. (45kHz/55kHz)
Ad-hoc observations			
Survey	Grid reference	Date	Species
BATLAS 2010	T1217064143	01/09/2008	Myotis daubentonii
BATLAS 2010	T0540867382	01/09/2008	Pipistrellus pipistrellus (45kHz)
BATLAS 2010	T0946957670	06/08/2008	Myotis daubentonii; Pipistrellus pygmaeus; Plecotus auritus
BATLAS 2010	T170560	01/06/2009	Myotis daubentonii; Nyctalus leisleri; Pipistrellus pipistrellus (45kHz); Pipistrellus pygmaeus
BATLAS 2010	T1672966957	01/09/2008	Pipistrellus pygmaeus
BATLAS 2010	T1521266059	01/09/2008	Myotis nattereri; Nyctalus leisleri; Pipistrellus pipistrellus (45kHz); Pipistrellus pygmaeus
BATLAS 2010			T0856764571 01/09/2008 Pipistrellus pipistrellus (45kHz); Pipistrellus pygmaeus
BATLAS 2010	T0931657772	06/08/2008	Pipistrellus pipistrellus (45kHz)
BATLAS 2010	T1617649809	03/06/2009	Myotis daubentonii; Myotis nattereri; Nyctalus leisleri; Pipistrellus pipistrellus (45kHz); Pipistrellus pygmaeus
BATLAS 2010	T2251964363	06/08/2008	Myotis daubentonii; Pipistrellus pipistrellus (45kHz)
BATLAS 2010	T1639466730	01/09/2008	Pipistrellus pipistrellus (45kHz); Plecotus auritus
EIA survey- Paul Scott (Scott Cawley)	T074494	07/07/2008	Myotis spp.; Pipistrellus pipistrellus (45kHz); Pipistrellus pygmaeus
EIA survey- Paul Scott (Scott Cawley)	T074494	10/07/2008	
EIA survey- Paul Scott (Scott Cawley)	T074494	07/07/2008	Myotis spp.; Nyctalus leisleri; Pipistrellus pipistrellus (45kHz); Pipistrellus pygmaeus
EIA survey- Paul Scott (Scott Cawley)	T112531	09/07/2008	Pipistrellus spp. (45kHz/55kHz)

EIA survey- Paul	T074494	10/07/2008	Pipistrellus pipistrellus (45kHz)
Scott (Scott Cawley)			
EIS Surveys - Niamh	T103548	09/07/2003	Myotis nattereri; Nyctalus leisleri; Pipistrellus
Roche			pygmaeus
Faith Wilson			T178593 25/07/2005 Pipistrellus pipistrellus (45kHz); Pipistrellus pygmaeus
Faith Wilson			T216680 02/03/2006 Pipistrellus pipistrellus (45kHz); Pipistrellus pygmaeus
Faith Wilson	T157579	15/07/2005	Myotis daubentonii; Pipistrellus pipistrellus (45kHz); Pipistrellus pygmaeus
Faith Wilson	T201676	13/07/2005	Nyctalus leisleri; Pipistrellus pipistrellus (45kHz); Pipistrellus pygmaeus
Faith Wilson	T122557	13/07/2005	Nyctalus leisleri; Pipistrellus pipistrellus (45kHz); Pipistrellus pygmaeus
Faith Wilson			T179594 25/07/2005 Pipistrellus pipistrellus (45kHz); Pipistrellus pygmaeus
Faith Wilson			T135572 14/07/2005 Pipistrellus pipistrellus (45kHz); Pipistrellus pygmaeus
Faith Wilson	T202664	12/07/2005	Myotis daubentonii; Pipistrellus pipistrellus (45kHz); Pipistrellus pygmaeus
Faith Wilson			T102547 13/07/2005 Myotis nattereri; Nyctalus leisleri; Pipistrellus pygmaeus
Faith Wilson	T1463	01/09/2008	Nyctalus leisleri; Pipistrellus pipistrellus (45kHz); Pipistrellus pygmaeus

**Bat fauna recorded with the EchoMeter3+ detector on 1<sup>st</sup> August 2018 prior to dawn**

Time	Auto ID	Manual ID
04:30:24 – 04:50:03	Common pipistrelle	Common pipistrelle
04:43:41	Soprano pipistrelle	Soprano pipistrelle
04:50:33	Leisler's bat	Leisler's bat
04:50:37	Soprano pipistrelle	Soprano pipistrelle
05:01:02 – 05:17:06	Common pipistrelle	Common pipistrelle
05:17:40	Soprano pipistrelle	Soprano pipistrelle
05:18:10 – 05:22:48	Common pipistrelle	Common pipistrelle
05:29:07 – 05:32:35	Leisler's bat	Leisler's bat



**The three bat species within the site in 2018: (top) Leisler's bat, (middle) Common pipistrelle and (bottom) Soprano pipistrelle**

## Data recorded from analysis of bat signals recorded by handheld monitor March 29 to 30 2022

Time	Auto Id	Pulses	Matching	Manual Id
20:08:52	Common Pipistrelle	27	26	Common Pipistrelle
20:08:57	Common Pipistrelle	23	23	Common Pipistrelle
20:09:02	Leisler's Bat	18	11	Common Pipistrelle
20:09:09	Common Pipistrelle	20	20	Common Pipistrelle
20:09:14	Common Pipistrelle	36	36	Common Pipistrelle
20:09:19	Common Pipistrelle	25	25	Common Pipistrelle
20:09:25	Common Pipistrelle	6	6	Common Pipistrelle
20:15:38	Common Pipistrelle	4	4	Common Pipistrelle
20:15:52	Common Pipistrelle	21	21	Common Pipistrelle
20:15:57	Common Pipistrelle	16	15	Common Pipistrelle
20:16:02	Common Pipistrelle	13	13	Common Pipistrelle
20:16:08	Common Pipistrelle	21	21	Common Pipistrelle
20:16:13	Common Pipistrelle	27	27	Common Pipistrelle
20:16:18	Common Pipistrelle	19	19	Common Pipistrelle
20:16:25	Common Pipistrelle	24	24	Common Pipistrelle
20:16:30	Common Pipistrelle	3	3	Common Pipistrelle
20:16:35	Common Pipistrelle	20	19	Common Pipistrelle
20:16:40	Common Pipistrelle	28	28	Common Pipistrelle
20:16:45	Common Pipistrelle	30	29	Common Pipistrelle
20:16:51	Common Pipistrelle	25	25	Common Pipistrelle
20:16:56	Common Pipistrelle	9	9	Common Pipistrelle
20:17:01	Common Pipistrelle	13	13	Common Pipistrelle
20:17:15	Common Pipistrelle	9	9	Common Pipistrelle
20:21:23	Noise	0	0	Common Pipistrelle
20:21:33	Common Pipistrelle	5	5	Common Pipistrelle
20:21:38	Common Pipistrelle	4	4	Common Pipistrelle
20:21:43	Common Pipistrelle	5	5	Common Pipistrelle
20:34:41	Common Pipistrelle	22	22	Common Pipistrelle
20:34:46	Noise	0	0	Common Pipistrelle
20:34:53	Common Pipistrelle	2	2	Common Pipistrelle
20:35:04	Common Pipistrelle	34	33	Common Pipistrelle
20:35:09	Pina	32	19	Common Pipistrelle
20:35:14	Noise	0	0	Common Pipistrelle
20:38:52	Brown Long-Eared Bat	19	19	Brown Long-Eared Bat
20:38:57	Brown Long-Eared Bat	13	12	Brown Long-Eared Bat
20:39:02	Noise	0	0	Brown Long-Eared Bat
20:41:02	Soprano Pipistrelle	2	2	Soprano Pipistrelle
20:41:07	Noise	0	0	Soprano Pipistrelle
20:41:19	Soprano Pipistrelle	4	4	Soprano Pipistrelle
20:41:25	Soprano Pipistrelle	4	4	Soprano Pipistrelle
20:41:36	Soprano Pipistrelle	13	13	Soprano Pipistrelle
20:41:54	Soprano Pipistrelle	7	7	Soprano Pipistrelle
20:42:16	Soprano Pipistrelle	15	15	Soprano Pipistrelle
20:42:21	Noise	0	0	Soprano Pipistrelle
20:42:25	Soprano Pipistrelle	9	9	Soprano Pipistrelle
20:42:30	Noise	0	0	Soprano Pipistrelle
20:42:32	Soprano Pipistrelle	3	3	Soprano Pipistrelle
20:42:39	Soprano Pipistrelle	8	8	Soprano Pipistrelle

20:42:44	Noise	0	0	Soprano Pipistrelle
20:43:00	Soprano Pipistrelle	14	14	Soprano Pipistrelle
20:43:05	Soprano Pipistrelle	11	11	Soprano Pipistrelle
20:43:10	Noise	0	0	Soprano Pipistrelle
20:43:11	Soprano Pipistrelle	11	11	Soprano Pipistrelle
20:43:16	Soprano Pipistrelle	7	7	Soprano Pipistrelle
20:43:24	Soprano Pipistrelle	4	4	Soprano Pipistrelle
20:43:29	Noise	1	0	Soprano Pipistrelle
20:43:32	Soprano Pipistrelle	2	2	Soprano Pipistrelle
20:43:37	Noise	0	0	Soprano Pipistrelle
20:44:23	Noise	0	0	Soprano Pipistrelle
20:44:28	Soprano Pipistrelle	2	2	Soprano Pipistrelle
20:44:33	Noise	0	0	Soprano Pipistrelle
21:04:43	Soprano Pipistrelle	26	25	Soprano Pipistrelle
21:04:48	Soprano Pipistrelle	15	14	Soprano Pipistrelle
21:04:53	Soprano Pipistrelle	11	11	Soprano Pipistrelle
21:04:57	Soprano Pipistrelle	18	17	Soprano Pipistrelle
21:05:06	Soprano Pipistrelle	11	11	Soprano Pipistrelle
21:05:11	Soprano Pipistrelle	9	9	Soprano Pipistrelle
21:05:16	Noise	0	0	Soprano Pipistrelle
21:05:20	Soprano Pipistrelle	8	8	Soprano Pipistrelle
21:05:25	Soprano Pipistrelle	8	8	Soprano Pipistrelle
21:05:34	Soprano Pipistrelle	5	4	Soprano Pipistrelle
21:05:39	Soprano Pipistrelle	13	8	Soprano Pipistrelle
21:05:44	Soprano Pipistrelle	16	16	Soprano Pipistrelle
21:05:52	Soprano Pipistrelle	4	4	Soprano Pipistrelle
21:05:57	Soprano Pipistrelle	6	5	Soprano Pipistrelle
21:06:02	Soprano Pipistrelle	8	8	Soprano Pipistrelle
21:06:16	Soprano Pipistrelle	17	16	Soprano Pipistrelle
21:06:22	Soprano Pipistrelle	7	7	Soprano Pipistrelle
21:06:27	Soprano Pipistrelle	3	3	Soprano Pipistrelle
21:06:41	Soprano Pipistrelle	10	10	Soprano Pipistrelle
21:06:52	Soprano Pipistrelle	2	2	Soprano Pipistrelle
21:07:16	Soprano Pipistrelle	7	7	Soprano Pipistrelle
21:07:21	Soprano Pipistrelle	2	2	Soprano Pipistrelle
21:07:27	Soprano Pipistrelle	4	4	Soprano Pipistrelle
21:07:36	Soprano Pipistrelle	10	10	Soprano Pipistrelle
21:08:19	Soprano Pipistrelle	7	7	Soprano Pipistrelle
21:08:26	Soprano Pipistrelle	8	8	Soprano Pipistrelle
21:09:08	Soprano Pipistrelle	8	8	Soprano Pipistrelle
21:09:34	Soprano Pipistrelle	12	12	Soprano Pipistrelle
21:09:53	Soprano Pipistrelle	14	13	Soprano Pipistrelle
21:09:58	Noise	0	0	Soprano Pipistrelle
21:10:13	Soprano Pipistrelle	3	3	Soprano Pipistrelle
21:10:25	Soprano Pipistrelle	19	18	Soprano Pipistrelle
21:10:30	Noise	0	0	Soprano Pipistrelle
21:10:40	Soprano Pipistrelle	9	9	Soprano Pipistrelle
21:10:48	Soprano Pipistrelle	6	5	Soprano Pipistrelle
21:10:53	Soprano Pipistrelle	4	4	Soprano Pipistrelle

21:10:58	Soprano Pipistrelle	3	3	Soprano Pipistrelle
21:13:33	Soprano Pipistrelle	2	2	Soprano Pipistrelle
21:14:26	Common Pipistrelle	15	15	Common Pipistrelle
21:14:31	Noise	0	0	Common Pipistrelle
21:14:40	Soprano Pipistrelle	4	4	Soprano Pipistrelle
21:14:44	Soprano Pipistrelle	4	4	Soprano Pipistrelle
21:14:49	Soprano Pipistrelle	2	2	Soprano Pipistrelle
21:14:54	Soprano Pipistrelle	18	18	Soprano Pipistrelle
21:14:59	Noise	0	0	Soprano Pipistrelle
21:15:00	Noise	0	0	Soprano Pipistrelle
21:15:05	Noise	0	0	Soprano Pipistrelle
21:20:54	Noise	0	0	Brown Long-Eared Bat
21:20:59	Brown Long-Eared Bat	8	8	Brown Long-Eared Bat
21:21:04	Noise	0	0	Brown Long-Eared Bat
21:23:48	Brown Long-Eared Bat	17	16	Brown Long-Eared Bat
21:23:53	Noise	0	0	Brown Long-Eared Bat



Data from static monitor at ruined house 29<sup>th</sup> to 30<sup>th</sup> March 2022 (times are not adjusted for DST I.e., add 1 hour to the time shown)

TIME	AUTO ID	PULSES	MATCHING	MANUAL ID
19:05:16	common pipistrelle	30	30	common pipistrelle
19:05:21	common pipistrelle	25	19	common pipistrelle
19:05:26	common pipistrelle	25	23	common pipistrelle
19:05:36	common pipistrelle	12	12	common pipistrelle
19:05:41	common pipistrelle	19	16	common pipistrelle
19:05:31	common pipistrelle	24	20	common pipistrelle
19:05:46	common pipistrelle	11	9	common pipistrelle
19:05:51	common pipistrelle	16	15	common pipistrelle
19:05:56	Noise	0	0	common pipistrelle
19:06:02	common pipistrelle	29	29	common pipistrelle
19:06:07	common pipistrelle	19	19	common pipistrelle
19:05:57	common pipistrelle	28	28	common pipistrelle
19:06:18	common pipistrelle	18	17	common pipistrelle
19:06:23	common pipistrelle	16	16	common pipistrelle
19:06:13	common pipistrelle	30	30	common pipistrelle
19:06:28	common pipistrelle	29	28	common pipistrelle
19:06:33	common pipistrelle	29	29	common pipistrelle
19:06:38	common pipistrelle	28	28	common pipistrelle
19:06:48	common pipistrelle	20	20	common pipistrelle
19:06:53	common pipistrelle	24	24	common pipistrelle
19:06:43	common pipistrelle	18	18	common pipistrelle
19:06:58	common pipistrelle	30	29	common pipistrelle
19:07:03	common pipistrelle	13	13	common pipistrelle
19:07:08	common pipistrelle	23	23	common pipistrelle
19:07:19	common pipistrelle	13	12	common pipistrelle
19:07:24	common pipistrelle	29	28	common pipistrelle
19:07:14	common pipistrelle	32	31	common pipistrelle
19:07:29	common pipistrelle	26	25	common pipistrelle
19:07:39	common pipistrelle	30	30	common pipistrelle
19:07:34	common pipistrelle	20	20	common pipistrelle
19:07:54	common pipistrelle	24	21	common pipistrelle
19:07:44	common pipistrelle	29	29	common pipistrelle
19:07:49	common pipistrelle	28	28	common pipistrelle
19:07:59	common pipistrelle	18	18	common pipistrelle
19:08:04	common pipistrelle	11	11	common pipistrelle
19:08:09	common pipistrelle	27	27	common pipistrelle
19:08:15	common pipistrelle	6	6	common pipistrelle
19:08:21	common pipistrelle	22	17	common pipistrelle
19:08:26	common pipistrelle	22	22	common pipistrelle
19:08:31	common pipistrelle	19	18	common pipistrelle
19:08:41	common pipistrelle	23	22	common pipistrelle
19:08:46	common pipistrelle	13	13	common pipistrelle
19:08:36	common pipistrelle	19	19	common pipistrelle
19:09:02	common pipistrelle	22	22	common pipistrelle
19:08:52	common pipistrelle	28	28	common pipistrelle
19:08:57	common pipistrelle	19	19	common pipistrelle
19:09:07	common pipistrelle	16	16	common pipistrelle
19:22:16	soprano pipistrelle	13	13	soprano pipistrelle

19:22:21	soprano pipistrelle	13	13	soprano pipistrelle
19:22:11	soprano pipistrelle	5	5	soprano pipistrelle
19:22:33	soprano pipistrelle	17	17	soprano pipistrelle
19:22:28	soprano pipistrelle	18	18	soprano pipistrelle
19:22:38	soprano pipistrelle	4	4	soprano pipistrelle
19:22:53	soprano pipistrelle	3	3	soprano pipistrelle
19:22:43	soprano pipistrelle	9	9	soprano pipistrelle
19:23:09	soprano pipistrelle	6	6	soprano pipistrelle
19:23:04	soprano pipistrelle	4	4	soprano pipistrelle
19:22:59	MYNA	3	2	soprano pipistrelle
19:23:20	soprano pipistrelle	7	7	soprano pipistrelle
19:23:15	soprano pipistrelle	6	6	soprano pipistrelle
19:23:30	soprano pipistrelle	6	6	soprano pipistrelle
19:23:35	Leisler's bat	4	3	soprano pipistrelle
19:23:40	soprano pipistrelle	4	4	soprano pipistrelle
19:23:33	soprano pipistrelle	24	24	soprano pipistrelle
19:27:07	common pipistrelle	15	12	common pipistrelle
19:27:34	common pipistrelle	13	13	common pipistrelle
19:30:37	soprano pipistrelle	8	8	soprano pipistrelle
19:40:07	soprano pipistrelle	22	22	soprano pipistrelle
19:40:42	soprano pipistrelle	3	3	soprano pipistrelle
19:40:47	soprano pipistrelle	2	2	soprano pipistrelle
19:41:05	soprano pipistrelle	2	2	soprano pipistrelle
19:41:00	soprano pipistrelle	10	10	soprano pipistrelle
19:41:11	soprano pipistrelle	2	2	soprano pipistrelle
19:41:31	soprano pipistrelle	7	7	soprano pipistrelle
19:41:21	soprano pipistrelle	21	21	soprano pipistrelle
19:41:26	soprano pipistrelle	8	8	soprano pipistrelle
19:41:38	soprano pipistrelle	10	10	soprano pipistrelle
19:42:15	soprano pipistrelle	5	4	soprano pipistrelle
19:42:10	soprano pipistrelle	3	3	soprano pipistrelle
19:42:48	soprano pipistrelle	9	9	soprano pipistrelle
19:43:31	soprano pipistrelle	9	9	soprano pipistrelle
19:44:08	soprano pipistrelle	7	7	soprano pipistrelle
19:46:26	soprano pipistrelle	8	8	soprano pipistrelle
20:40:29	common pipistrelle	11	11	common pipistrelle
00:06:47	common pipistrelle	13	13	common pipistrelle
00:09:12	brown long-eared	2	2	brown long-eared bat
00:59:42	brown long-eared	3	3	brown long-eared bat
01:52:14	Daubenton's bat	16	12	MYOTIS
01:56:40	brown long-eared	3	2	brown long-eared bat
04:03:53	brown long-eared	8	8	brown long-eared bat

Bat activity recorded by static monitor at ruined shed in the overgrown field 29<sup>th</sup> to 30<sup>th</sup> March 2022

TIME	AUTO ID	PULSES	MATCHING	MANUAL ID
19:05:41	common pipistrelle	11	10	common pipistrelle
19:05:36	common pipistrelle	21	19	common pipistrelle
19:05:51	common pipistrelle	31	31	common pipistrelle
19:05:56	common pipistrelle	35	35	common pipistrelle
19:06:01	common pipistrelle	27	27	common pipistrelle