

A bat assessment and derogation application for phase 1A in Athlumney, Navan, Co Meath

For Orian Wave Ltd



By Donna Mullen M.P.P.M D.E.N.V.S. P Brian Keeley BSc hons Zool Wildlife Surveys Ireland Itd Maio, Tierworker, Kells Co Meath Date of survey July 2024 www.wildlifesurveys.net



Summary

A survey took place in 2019 and found common pipistrelles roosting in at least 2 places in the barn on the site.

A second survey took place in May 2021. There was good bat activity on the site, with common and soprano pipistrelles feeding frequently around the barn and hedgerow, and some Leisler's bat activity was recorded. No bats were found roosting in the barn 2021, however there were high levels of bat activity around the barn, with bats feeding and social calling within the barn.

A third bat survey took place using remote detectors over 3 weeks in December 2023/ Jan 24. Although this survey took place in wintertime, there was bat activity over several nights within the barn. It may act as a sheltered feeding site. Social calls were also recorded, and bats may have mating roosts within the building. Most activity was of soprano pipistrelles, with activity seen over several nights and over a thousand sound files recorded. Common pipistrelles were also recorded within the barn, feeding and social calling.

A fourth survey took place in July 2024. No bats were found to be feeding or roosting within the barn on this occasion. Three species of bat were feeding outside.

Bat species found roosting on the site in July 2024.

None

Bat species found feeding and commuting on the site 2024. Common pipistrelle - *Pipistrellus pipistrellus*

Soprano pipistrelle – Pipistrellus pygmaeus

Leisler's bat – Nyctalus Leisleri

Bat species found feeding and social calling within the barn Dec 2023

Common pipistrelle - Pipistrellus pipistrellus

Soprano pipistrelle – Pipistrellus pygmaeus

Bat species found roosting on the site in Sept 2019.

Common pipistrelle - Pipistrellus pipistrellus

Bat species found feeding and commuting on the site in 2019 and 2021.

Common pipistrelle - Pipistrellus pipistrellus



Leisler's bat – Nyctalus Leisleri

Recommendations

(1) The barn was a roost of common pipistrelles in 2019. In survey, Dec – Jan 2023-2024, there was much soprano pipistrelle activity within the barn. However, no roosts were found in summertime (July 2024) when the most recent survey took place. A derogation licence must be applied for if the barn is being demolished, and the demolition must be supervised by an ecologist. Timbers in the roost area must be removed by hand. If the demolition takes place in the winter, a heater should be placed overnight in the barn, near the roost area, prior to demolition. This will allow the temperature to rise, so bats will not be in torpor.

(2) Five 2F and Six 1FF Schwegler bat boxes with built-in timber panel bat boxes must be put in place. These should be placed on trees or posts, at least 3m high, with a clear drop below (as bats need to drop to start their flight). These can be purchased from <u>https://www.veldshop.nl/en/schwegler-bat-box-2f.html</u> and <u>https://www.veldshop.nl/en/schwegler-flat-bat-box-1ff-with-built-in-wooden-re.html</u>

These have been used by common and soprano pipistrelles in Golashane Nature reserve in Kells, Co Meath. They must be placed in a dark area. These must be in place prior to any tree felling or demolition.

(3) Bats may suffer a loss of feeding. Native shrubs and trees will be used within the new development. Where other climbers and shrubs are required, they should be taken from the approved list from the All-Ireland Pollinator Plan - <u>http://www.biodiversityireland.ie/wordpress/wp-content/uploads/Pollinator-friendly-planting-code-temporary-draft.pdf</u>

Ponds will also be created within the site. See landscape plan, Appendix II.

(4) If bats are discovered at any stage of the development, building work must cease and myself and the wildlife ranger must be contacted.

(5) Light spillage and pollution must be kept to a minimum with the use of cowls, caps, and low-level bollard lighting where possible. See Appendix III for the proposed dark skies areas.

Lighting design will be in accordance with

Bats and Lighting – Guidance Notes for Planners, Engineers, Architects, and Developers (Bat Conservation Ireland, 2010).

- <u>Bats and Lighting in the UK</u> Bats and the Built Environment Series (Institute of Lighting Professionals, September 2018).
- <u>Guidance Notes</u> for the Reduction of Obtrusive Light GN01 (Institute of Lighting Professionals, 2011).



(6) Trees which are ivy clad, have trunks over 30cm diameter, or which have cracks or crevices must be checked for bats by an ecologist prior to felling. Where possible, mature trees should be retained. Dead trees may be pollarded and retained.

(7) If bats or nesting birds are discovered at any stage of the building work, building work must cease and a bat specialist and the Conservation Ranger must be contacted.

Desktop data, including details of previous bat surveys on this site.

Distribution data.



Distribution of common pipistrelles in Meath



Distribution of soprano pipistrelles in Meath





Distribution of Leisler's bats in Meath

Thanks to Bat Conservation Ireland for their data.

Bat data within 1km of the site

| BCIrelan 2024 | d data: searc | ch result | s 8 Jan | | |
|------------------|-------------------|----------------------------|-----------------------------|------------|----------------------------|
| Search p | arameters: F | Roosts T | ransects | Ad-hoc ob | servation sites with |
| observat | ions of all sp | pecies w | ithin 100 | 0m of N890 | 0168029 |
| Roosts | | | | | |
| Name | Grid reference | Grid ref easti ng | Grid ref northi ng | Address | Species observed |
| The | N888687 | 28880 | 26870 | Boyne | Pipistrellus pygmaeus |
| Rectory | | 0 | 0 | Road, | |
| Boyne | | | | Navan, | |
| Road | | | | County | |
| | | | | Meath | |
| Transe cts | | | | | |
| Name | Grid | Grid | Grid | Species of | bserved |
| | reference | ref | ref | | |
| | start | easti | northi | | |
| | | ng | ng | | |
| | | start | start | | |
| Rampar | N8816968 | 28816 | 26839 | Myotis dau | ubentonii,Unidentified bat |
| ts 1 | 393 | 9 | 3 | | |
| Transe | | | | | |
| ct 1 | | | | | |
| Rampar | N8877268 | 28877 | 26836 | Myotis dau | ubentonii |
| ts 1 | 363 | 2 | 3 | | |



| Transe | | | | | |
|----------------|-------------|----------|-------|--------------|--|
| ct 10 | | | | | |
| Rampar | N8813268 | 28813 | 26827 | Myotis my | stacinus/brandtii,Myotis |
| ts 1 | 270 | 2 | 0 | natterreri, | Ayotis daubentonii |
| Iranse | | | | | |
| Ct 2 | Naaaaaaa | 00000 | 00040 | | |
| Rampar | N8808268 | 28808 | 26816 | Pipistrellus | s pygmaeus, Pipistrelius |
| lo I Transo | 107 | 2 | 1 | pipistrenu: | daubontonii |
| ct 3 | | | | Dat, Wyotis | daubentonn |
| Rampar | N8803768 | 28803 | 26807 | Mvotis dau | bentonii.Unidentified bat |
| ts 1 | 074 | 7 | 4 | | |
| Transe | - | | | | |
| ct 4 | | | | | |
| Rampar | N8825968 | 28825 | 26849 | Pipistrellus | s pygmaeus,Pipistrellus |
| ts | 497 | 9 | 7 | pipistrellus | s (45kHz),Pipistrellus spp. |
| Transe | | | | (45kHz/55k | (Hz),Nyctalus leisleri,Myotis |
| ct 2 | | | | spp. | |
| Rampar | N8828968 | 28828 | 26853 | Myotis dau | Ibentonii,Pipistrellus |
| tS Tronce | 532 | 9 | Z | | Pipistrellus pipistrellus |
| Transe | | | | (43KHZ),PI | Distreilus spp. (Hz) Nyetalus leisleri Myetis |
| 61.5 | | | | (45Ki 12/55h | inz), Nycialus leisien, Nycias |
| Rampar | N8836668 | 28836 | 26861 | Nyctalus le | eisleri.Pipistrellus spp. |
| ts | 619 | 6 | 9 | (45kHz/55k | Hz),Pipistrellus |
| Transe | | | | pygmaeus | Unidentified bat, Myotis |
| ct 4 | | | | spp. | |
| Rampar | N8844268 | 28844 | 26869 | Myotis dau | ıbentonii,Pipistrellus |
| ts | 699 | 2 | 9 | pygmaeus | ,Pipistrellus spp. |
| Transe | | | | (45kHz/55k | (Hz),Myotis spp. |
| Ct 5 | N0050700 | 00050 | 00070 | | |
| Rampar | N8852768 | 28852 | 26879 | Wyotis dal | Ibentonii, Unidentified |
| ts Transo | 191 | , | / | loislori My | elius pyginaeus, Nyctaius |
| ct 6 | | | | | 505 spp. |
| Rampar | N8854268 | 28854 | 26890 | Mvotis dau | ibentonii Pipistrellus |
| ts | 904 | 2 | 4 | pvgmaeus | Nyctalus leisleri.Myotis |
| Transe | | | | spp.,Pipist | rellus pipistrellus (45kHz) |
| ct 7 | | | | | |
| Rampar | N8852569 | 28852 | 26901 | Myotis dau | ıbentonii,Myotis |
| ts | 018 | 5 | 8 | spp.,Nycta | lus leisleri,Pipistrellus spp. |
| Transe | | | | (45kHz/55k | (Hz),Pipistrellus pipistrellus |
| ct 8 | • | | | (45kHz),Pij | pistrellus pygmaeus |
| Ad-hoc c | bservations | | | | |
| Survey | Grid | Grid | Grid | Date | Species observed |
| | reference | ret | ret | | |



| | | easti | northi | | |
|---------|----------|-------|--------|----------|------------------------------|
| | | ng | ng | | |
| Bat Eco | N8857168 | 28857 | 26887 | ######## | Nyctalus leisleri |
| Service | 873 | 1 | 3 | | |
| S | | | | | |
| Bat Eco | N8818768 | 28818 | 26839 | ######## | Myotis natterreri |
| Service | 390 | 7 | 0 | | |
| S | | | | | |
| Bat Eco | N8869469 | 28869 | 26901 | ######## | Pipistrellus pygmaeus |
| Service | 010 | 4 | 0 | | |
| S | | | | | |
| Bat Eco | N8856868 | 28856 | 26887 | ######## | Pipistrellus pygmaeus |
| Service | 876 | 8 | 6 | | |
| S | | | | | |
| Bat Eco | N8856268 | 28856 | 26888 | ######## | Pipistrellus pygmaeus |
| Service | 883 | 2 | 3 | | |
| S | | | | | |
| Bat Eco | N8853368 | 28853 | 26886 | ######## | Pipistrellus pygmaeus |
| Service | 863 | 3 | 3 | | |
| S | | | | | |
| Bat Eco | N8852768 | 28852 | 26879 | ######## | Pipistrellus pygmaeus |
| Service | 798 | 7 | 8 | | |
| S | | | | | |
| Bat Eco | N8850968 | 28850 | 26877 | ######## | Pipistrellus pygmaeus |
| Service | 779 | 9 | 9 | | |
| S | | | | | |
| Bat Eco | N8847868 | 28847 | 26872 | ######## | Pipistrellus pygmaeus |
| Service | 720 | 8 | 0 | | |
| S | | | | | |
| BATLA | N8813468 | 28813 | 26844 | ######## | Pipistrellus pipistrellus |
| S 2020 | 440 | 4 | 0 | | (45kHz),Pipistrellus |
| | | | | | pygmaeus,Nyctalus |
| | | | | | leisleri, Myotis daubentonii |

For bat data within 10km of the site see Appendix IV

Previous roosts identified in the barn in 2019 – Common pipistrelles.





Roost areas in joists



Map of bat activity on site in 2019 - September



Blue triangle – Common pipistrelle Green Triangle- Soprano pipistrelle Grey triangle – Leisler's bat

Yellow Square – Barn owl

Red square – Common pipistrelle roost





Map of bat activity as recorded by EM3 Brian Keeley May 2021

Blue paddle Soprano pipistrelle Starred blue paddle Last soprano pipistrelle signal.

"2" Both pipistrelle species green paddle Common pipistrelle

Yellow paddle Leisler's bat

Mini Location of Song meter Mini from circa 22.20 hours to 05.14 hours



Map of main bat activity May 2021



Blue triangle – Common pipistrelle

Green Triangle- Soprano pipistrelle

Grey triangle – Leisler's bat

Proposal

Application for 98 dwellings, with access, services etc. The barn is due for demolition. See Appendix I for details.



Complexity of lands and ability to cover ground during surveys –All areas were accessible.

Survey constraints

(1) Mobility of bats – Bat species are mobile and can move from roost to roost, depending on roost availability, feeding availability and weather conditions. They may move to roosts which have not been identified in this report in order to hibernate or create mating or feeding perches. A bat survey is a snapshot of bat activity over the survey time.

(2) Identification of bats- It can be difficult to differentiate myotis species. For this reason, sound files are included within the report. Brown long eared bats are very quiet, and their presence can be overlooked in bat surveys as they may not register on bat detectors.

(3) Timing of survey. Bat surveys generally take place when the bats are active – May – September. A bat survey which takes place outside these dates may miss roosting activity. Because of this the precautionary principle is applied and the building will be checked manually for roosting bats prior to any demolition.

Methodology for Bat Survey

Bat Survey – Equipment

Exide Lamp

Petzl Tikka Head torch

Two Mini song meter Bat plus time expansion detector and analysis software, in place for 3 weeks Dec – Jan

In July Song Meter Mini Bat remote detectors with Kaleidoscope Pro sound analysis

One thermal imager

One ladder

One handheld Echo meter Touch detector one Anabat walkabout.

Surveys are designed with reference to the recognised documents below:

- Heritage Council's Bat Survey Guidelines for the Traditional Farm Buildings Scheme
- National Parks and Wildlife's Bat Mitigation Guidelines for Ireland



- Bat Surveys: Surveying Buildings (Including Bat Identification) Developed on behalf of the Bat Conservation Trust
- English Nature's Bat Mitigation Guidelines
- - Bat surveys for Professional Ecologists good practice guidelines; fourth edition (2023); Bat Conservation Trust; London.
- A conservation plan for Irish Vesper Bats, Irish Wildlife Manual No. 20; National Parks and Wildlife Service; Department of Environment, Heritage and Local Government. - The status of E.C. Protected Habitats and Species in Ireland - Conservation status in Ireland of habitats and species listed in the European Council directories on Conservation of Habitats; Flora and Fauna 92/43/EFC. (Department of Environment, Heritage and Local Government) –
- Bat Mitigation Guidelines for Ireland (Irish Wildlife Manual no.25) Department of Environment, Heritage and Local Government.

Date -15/12/2023 - 5/1/2024

9 July 2024

Sunrise / Sunset 21.54, 5.09 July 9th

Weather Conditions Winter survey -Bats generally hibernate below 7C, so surveys are best undertaken in summertime. However, on several nights' temperatures were above 11C and there was bat activity seen in Meath.

Summer survey -12C to 8C Light rain

Habitat Classification

GA1, WL1, WI5, WD5, BL1, BL3, BC1

Proposal

Application for 98 dwellings, with access, services etc. The barn is due for demolition. See Appendix I for details.



Bat Survey Winter 2024

The building and trees were checked for signs of bats, droppings, staining etc. None were seen. Two remote detectors were put in place to see if bats were active within the barn over the Christmas and new year period.



Placement of bat detectors, one below the old 2019 roost area, and one in the annex



The external shed was also checked for bat usage. No bats were seen.

Shed

The trees surrounding the barn are conifers and have low bat roosting potential.







On 17th of December, a common pipistrelle was flying close to the tin (see the echoes bouncing on the trace) within the barn at 17.20.



Common pipistrelle

On 18th dec at 5.14 a common pipistrelle was social calling within the barn.



Common pipistrelle social calling



Common pipistrelle feeding buzz Dec 2023

Most common pipistrelle bat activity within the barn took place on the 15, 16 and 18 Dec, with 29 bat calls recorded in the main barn.

There was a lot of soprano pipistrelle activity within the barn, with 1511 sound files recorded within the main barn, on 15,16, 17,18, 22, and 23rd December. The bats were often present between 17.00 and 19.00 and a roost may be present.



Soprano pipistrelle 18.21 on 18th Dec

Bat survey 2024 July 9th

The survey commenced at 21.30. A badger was seen walking near the building and into the field behind the barn. Two birds' nests were seen in the building. One was disused and it was not possible to see if the other was in use.

No signs of bats, droppings, etc were seen. The barn has deteriorated since 2019, with burning in places. A static detector was placed under the beams where the roost was found in 2019.

At 22.05 a Leisler's bat flew over the barn. A common pipistrelle was also seen flying through the small shed attached to the barn at 22.15. A common pipistrelle and a Leisler's bat were seen to the south of the site at 22.22.



Common pipistrelle

A Leisler's bat fed over the buildings from 22.32 until 22.56 .A soprano pipistrelle flew to the west at 23.02. A Leisler's bat flew to the west of the building at 23.43.



Soprano pipistrelle

The survey commenced 1.5 hours before dawn. The only bats present were Leisler's bats , feeding in the fields around the barn from 4.10 until 4.52. There was no swarming within the barn.



Leisler's bat



Map of main bat activity 2024 – July 9



Blue triangle – Common pipistrelle Green Triangle- Soprano pipistrelle Grey triangle – Leisler's bat

Results

Winter 2024

Although this survey took place in wintertime, there was bat activity over several nights within the barn. It may act as a sheltered feeding site. Social calls were also recorded, and bats may have mating roosts within the building. Most activity was of soprano pipistrelles, with activity seen over several nights.

Summer 2024 – July 9



No bats were seen swarming or roosting within the barn. Bats frequently fed within the barn, however there was no swarming behaviour. The barn is not currently being used as a roost.

Bat species found roosting on the site in July 2024.

None

Bat species found feeding and commuting on the site July 2024.

Common pipistrelle - Pipistrellus pipistrellus

Soprano pipistrelle – Pipistrellus pygmaeus

Leisler's bat – Nyctalus Leisleri

Recommendations- Details of any mitigation measures planned for the species affected by the derogation at the location, along with evidence that such mitigation has been successful elsewhere.

Recommendations

(1) The barn was a roost of common pipistrelles in 2019. In survey, Dec – Jan 2023-2024, there was much soprano pipistrelle activity within the barn. However, no roosts were found in summertime (July 2024) when the most recent survey took place. A derogation licence must be applied for if the barn is being demolished, and the demolition must be supervised by an ecologist. Timbers in the roost area must be removed by hand. If the demolition takes place in the winter, a heater should be placed overnight in the barn, near the roost area, prior to demolition. This will allow the temperature to rise, so bats will not be in torpor.

(2) Five 2F and Six 1FF Schwegler bat boxes with built-in timber panel bat boxes must be put in place. These should be placed on trees or posts, at least 3m high, with a clear drop below (as bats need to drop to start their flight). These can be purchased from <u>https://www.veldshop.nl/en/schwegler-bat-box-2f.html</u> and <u>https://www.veldshop.nl/en/schwegler-flat-bat-box-1ff-with-built-in-wooden-re.html</u>

These have been used by common and soprano pipistrelles in Golashane Nature reserve in Kells, Co Meath. They must be placed in a dark area. These must be in place prior to any tree felling or demolition.

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Ponds will also be created within the site. See landscape plan, Appendix II.

(4) If bats are discovered at any stage of the development, building work must cease and myself and the wildlife ranger must be contacted.

(5) Light spillage and pollution must be kept to a minimum with the use of cowls, caps, and low-level bollard lighting where possible. See Appendix III for the proposed dark skies areas.

Lighting design will be in accordance with

Bats and Lighting – Guidance Notes for Planners, Engineers, Architects, and Developers (Bat Conservation Ireland, 2010).

- <u>Bats and Lighting in the UK</u> Bats and the Built Environment Series (Institute of Lighting Professionals, September 2018).
- <u>Guidance Notes</u> for the Reduction of Obtrusive Light GN01 (Institute of Lighting Professionals, 2011).

(6) Trees which are ivy clad, have trunks over 30cm diameter, or which have cracks or crevices must be checked for bats by an ecologist prior to felling. Where possible, mature trees should be retained. Dead trees may be pollarded and retained.

(7) If bats or nesting birds are discovered at any stage of the building work, building work must cease and a bat specialist and the Conservation Ranger must be contacted.

Evidence that actions permitted by a derogation licence will not be detrimental to the maintenance of the populations of the species to which the Habitats Directive relates at a favourable conservation status in their natural range as is required under Section 54(2) of the European Communities (Birds and Natural Habitats) Regulations.

Data from The Status of EU Protected Habitats and Species in Ireland SPECIES ASSESSMENTS Volume 3 2019

Common pipistrelle

5.10 Favourable reference range- Favourable Reference Range is the same as the current range, as there is no evidence of decline since the Directive came into force. There is also no reason to assume that the area of the current range is not large enough to allow the long-term survival of the species.

8.3 Additional information - Despite the identification in the 2013 assessment of numerous low and medium-level threats and pressures, it is clear now that the population of this species has been increasing significantly and steadily. On this basis and given the widespread distribution and very large population present in the country, no threats or pressures are considered significant at this point.



11.8 Additional information - This species has a very wide distribution across the island including some off-shore islands and there is no evidence of any decline in Range or in Habitat. The most recent estimates suggest a population size in the order to 1-2 million animals, making it one of the most common mammals in Ireland. Ongoing car-based bat monitoring 465 1309 Common Pipistrelle (Pipistrellus pipistrellus) indicates that the population is increasing. Furthermore, there is no indication of any major pressures currently impacting populations and Future prospects are considered good. Overall, the species is assessed as Favourable, and the overall trend is demonstrating an ongoing increase. There were no qualifiers for Favourable assessments in 2013.

| 10 Future prospects | | | | | | |
|---|---|-----------------------------|--|--|--|--|
| 10.1 Future prospects of | a) Range | Good / Poor / Bad / Unknown | | | | |
| parameters | b) Population | Good / Poor / Bad / Unknown | | | | |
| | c) Habitat of the species | Good / Poor / Bad / Unknown | | | | |
| 10.2 Additional information Optional | Ongoing car-based bat monitoring provides evidence for a signification increase in the population; there is no evidence of any decline Range or Habitat. In general the Future prospects of the parameters are considered to be good. | | | | | |
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Soprano pipistrelle

Range within the biogeographical/marine region concerned.

5.1 Surface area 79,900 km

5.2 Short-term trend Period 2007–2018 470 5009 Soprano Pipistrelle (Pipistrellus pygmaeus)

5.3 Short-term trend Direction stable

5.10 Favourable reference range a) 79,900 km²

Favourable Reference Range is the same as the current range, as there is no evidence of decline since the Directive came into force. There is also no reason to assume that the area of the current range is not large enough to allow the long-term survival of the species.

8.3 Additional information - Despite the identification in the 2013 assessment of numerous low and medium-level threats and pressures, it is clear now that the population of this species has been increasing significantly and steadily. On this basis and given the widespread distribution and very large population present in the country, no threats or pressures are considered significant at this point.

11.8 Additional information - The soprano pipistrelle is the most widespread bat species on the island of Ireland. Recent estimates for this species suggest a population size in the order of 500,000 – 1,000,000 animals. Ongoing car-based bat monitoring provides evidence for a significant increase 477 5009 Soprano Pipistrelle (Pipistrellus pygmaeus) in the population; there is no evidence of any decline in Range or Habitat. Furthermore, there is no indication of any major pressures currently impacting populations, and Future prospects are considered good. Overall, the species is assessed as Favourable, and the overall trend is demonstrating an on-going increase. There were no qualifiers for Favourable assessments in 2013.

| 10 Future prospects | | | | | | |
|-----------------------------|--|---|--|--|--|--|
| 10.1 Future prospects of | a) Range | Good / Poor / Bad / Unknown | | | | |
| parameters | b) Population | Good / Poor / Bad / Unknown | | | | |
| | c) Habitat of the species | Good / Poor / Bad / Unknown | | | | |
| 10.2 Additional information | Ongoing car-based bat monitoring provides evidence for a signific increase in the population; there is no evidence of any decline | | | | | |
| Optional | Range or Habitat. In ge parameters are considered | neral the Future prospects of these to be good. | | | | |







Legislation

Bats are protected under the 1996 Wildlife Act, the 2000 Wildlife (Amendment) Act, Stat Ist 94 of 1997, Stat Ist 378 of 2005, The Habitats Directive, The Bonn and Bern Convention, and the Euro bats agreement.

The European Community (Natural Habitats) Regulations S.I. No 94 of 1997 states:

23(1) The minister shall take the requisite measures to establish a system of strict protection for the fauna consisting of the animal species set out in Part 1 of the First Schedule prohibiting –

a) All forms of deliberate capture or killing of specimens of those species in the wild.

1. The deterioration or destruction of breeding sites or resting places of those species.

The EU Habitats Directive

Article 12(1) of the 'Council Directive 92/43/EEC on the conservation of natural habitats and wild fauna and flora (Habitats Directive) states:

"Member States shall take the requisite measures to establish a system of strict protection for the animal species listed in Annex IV(a) and their natural range, prohibiting:

a) all forms of deliberate capture or killing of specimens of these species in the wild.

b) deliberate disturbance of these species, particularly during the period of breeding, rearing, hibernation, and migration.

c) deliberate destruction or taking of eggs from the wild.

d. deterioration or destruction of breeding sites or resting places."

The EU Habitats Directive (92/43/EEC) lists all Irish bat species in Annex IV and one Irish species, the lesser horseshoe bat (Rhinolophus hipposideros), in Annex II. Annex II includes animal and plant species of community interest whose conservation requires the designation of Special Areas of Conservation (SACs) because they are endangered, rare, vulnerable, or endemic. Annex IV includes various species that require strict protection. Article 11 of the Habitats Directive requires member states to monitor all species listed in the Habitats Directive and Article 17 requires States to report to the EU on the findings of monitoring schemes.

The Bern and Bonn Conventions

Ireland is also a signatory to a number of conservation agreements pertaining to bats such as the Bern and Bonn Conventions. The European Bats Agreement (EUROBATS) is an agreement under the Bonn Convention. Ireland and the UK are



two of the 31 signatories. The Agreement has an Action Plan with priorities for implementation. Devising strategies for monitoring of populations of selected bat species in Europe is among the resolutions of EUROBATS.

1.3.1 The Berne Convention

Article 6 of the "Convention on the Conservation of European Wildlife and Natural Habitats' (Berne Convention) reads:

"Each Contracting Party shall take appropriate and necessary legislative and administrative measures to ensure the special protection of the wild fauna species specified in Appendix II. The following will in particular be prohibited for these species:

a) all forms of deliberate capture and keeping and deliberate killing.

b) the deliberate damage to or destruction of breeding or resting sites.

c) the deliberate disturbance of wild fauna, particularly during the period of breeding, rearing and hibernation, insofar as disturbance would be significant in relation to the objectives of this Convention; ...

Appendix II lists strictly protected fauna species and this list includes "Microchiroptera, all species except Pipistrellus pipistrelles".

The EUROBATS Agreement

The 'Agreement on the Conservation of Populations of European Bats' (EUROBATS) was negotiated under the 'Convention for the Conservation of Migratory Wild Species' (Bonn Convention) and came into force in January 1994. The legal protection of bats and their habitats are given in Article III as fundamental obligations:

"1. Each Party shall prohibit the deliberate capture, keeping or killing of bats except under permit from its competent authority.

2. Each Party shall identify those sites within its own area of jurisdiction which are important for the conservation status, including for the shelter and protection, of bats. It shall, taking into account as necessary economic and social considerations, protect such sites from damage or disturbance. In addition, each Party shall endeavour to identify and protect important feeding areas for bats from damage or disturbance."

The Agreement covers all European bat species.

Bat Biology

Female bats gather in groups known as maternity roosts in summer to have their young. They generally have one baby each year, so are slow to reproduce, and disturbance of a maternity roost can be catastrophic.



In winter bats move to old stonework, trees, and caves to hibernate. They are especially vulnerable here as they are slow to awaken, and if tree felling is carried out without checking for bats, they can easily be killed.

Contact Details: I can be contacted at 087 7454233. My email is donnamullen@wildlifesurveys.net and web site is <u>www.wildlifesurveys.net</u>



Appendix I

Song meter mini recordings from within the main barn under old roost

| | FOLDER | IN FILE | OUT FILE FS | OUT FILE 7C | AUTO ID | PULSES | MATCHING | MATCH RATIO | MANUA |
|--|--------|--|--|-------------|---|--|--|--|--------------------|
| 179 | TOLDER | SWI005485_20231222_215/10.wav | SNI005485_20251222_215/10_000.wav | 001111220 | INDISE | 100505 | | instruction of the second seco | |
| 180 | | SMU03485_20231223_071648.wav | SMU03485_20231223_071648_000.wav | | Noise | | | | |
| 181 | | SMU03485_20231217_192019.wav | SMU03485_20231217_192019_000.wav | | PIPPIP | 136 | 123 | 0.904000 | PIPPIP |
| 182 | | SMU03485_20231218_220722.wav | SMU03485_20231218_220722_000.wav | | PIPPIP | 84 | 80 | 0.952000 | PIPPIP |
| 183 | | SMU03485_20231218_050459.wav | SMU03485_20231218_050459_000.wav | | PIPPIP | 75 | 72 | 0.960000 | PIPPIP |
| 184 | | SMU03485_20231218_183350.wav | SMU03485_20231218_183350_000.wav | | PIPPIP | 101 | 69 | 0.683000 | PIPPYG |
| 185 | | SMI003485_20231218_030418.wav | SMI003465_20231218_000418_000.wav | | PIPPIP | /1 | 64 | 0.901000 | DIDDID |
| 187 | | SMU03485 20231215 202615 way | SMU03465_20231215_202615_000.wav | | PIPPIP | 75 | 63 | 0.840000 | PIPPIP |
| 188 | | SMU03485 20231218 175458.way | SMU03485 20231218 175458 000.way | | PIPPIP | 63 | 61 | 0.968000 | PIPPIP |
| 189 | | SMU03485 20231218 195401.way | SMU03485 20231218 195401 000.way | | PIPPIP | 73 | 56 | 0.767000 | PIPPIP |
| 190 | | SMU03485_20231217_191938.wav | SMU03485_20231217_191938_000.wav | | PIPPIP | 52 | 50 | 0.962000 | PIPPIP |
| 191 | | SMU03485_20231218_050522.wav | SMU03485_20231218_050522_000.wav | | PIPPIP | 53 | 50 | 0.943000 | PIPPIP |
| 192 | | SMU03485_20231216_182734.wav | SMU03485_20231216_182734_000.wav | | PIPPIP | 49 | 49 | 1.000000 | PIPPIP |
| 193 | | SMU03485_20231218_183458.wav | SMU03485_20231218_183458_000.wav | | PIPPIP | 76 | 43 | 0.566000 | PIPPIP |
| 194 | | SMU03485_20231218_175531.wav | SMU03485_20231218_175531_000.wav | | PIPPIP | 40 | 40 | 1.000000 | PIPPIP |
| 195 | | SMU03485_20231218_184200.wav | SMU03485_20231218_184200_000.wav | | PIPPIP | 62 | 36 | 0.581000 | PIPPIP |
| 196 | | SMU03485_20231218_050433.wav | SMU03485_20231218_050433_000.wav | | PIPPIP | 35 | 33 | 0.943000 | PIPPIP |
| 197 | | SMU03485_20231218_220/48.wav | SMU03485_20231218_220/48_000.wav | | PIPPIP | 32 | 30 | 0.938000 | PIPPIP |
| 190 | | SMU03485 20231218 17514 wav | SMU03465_20231218_17514_000.wav | | DIDDID | 37 | 26 | 0.703000 | DIDDID |
| 200 | | SMU03485_20231218_220737.way | SMU03485_20231218_220737_000.way | | PIPPIP | 25 | 20 | 0.880000 | PIPPIP |
| 201 | | SMU03485 20231218 175445.way | SMU03485 20231218 175445 000.way | | PIPPIP | 20 | 20 | 1.000000 | PIPPIP |
| 202 | | SMU03485_20231218_041229.wav | SMU03485_20231218_041229_000.wav | | PIPPIP | 15 | 14 | 0.933000 | PIPPIP |
| 203 | | SMU03485_20231218_175547.wav | SMU03485_20231218_175547_000.wav | | PIPPIP | 12 | 12 | 1.000000 | PIPPIP |
| 204 | | SMU03485_20231218_222806.wav | SMU03485_20231218_222806_000.wav | | PIPPIP | 12 | 12 | 1.000000 | PIPPIP |
| 205 | | SMU03485_20231218_041259.wav | SMU03485_20231218_041259_000.wav | | PIPPIP | 9 | 9 | 1.000000 | PIPPIP |
| 206 | | SMU03485_20231215_202610.wav | SMU03485_20231215_202610_000.wav | | PIPPIP | 7 | 7 | 1.000000 | PIPPIP |
| 207 | | SMU03485_20231218_221745.wav | SMU03485_20231218_221745_000.wav | | PIPPIP | 7 | 7 | 1.000000 | PIPPIP |
| 208 | | SMUU3485_20231216_023635.wav | SMU03485_20231216_023635_000.wav | | PIPPIP | 3 | 3 | 1.000000 | PIPPIP |
| 209 | | SM003485_20231217_192035.wav | SM003485_20231217_192035_000.wav | | PIPPIP | 4 | 3 | 0.750000 | PIPPIP |
| 210 | | SMI003465_20231218_024156.wav | SMU03465_20231216_024156_000.wav | | PIPPIP | | 154 | 0.50000 | DIDDVG |
| 212 | | SMU03485_20231218_091817.wav | SMU03465_20231213_051017_000.way | | PIPPYG | 158 | 154 | 0.975000 | PIPPYG |
| 213 | | SMU03485 20231218 023602.way | SMU03485 20231218 023602 000.way | | PIPPYG | 161 | 150 | 0.932000 | PIPPYG |
| 214 | | SMU03485_20231218_091848.wav | SMU03485_20231218_091848_000.wav | | PIPPYG | 146 | 145 | 0.993000 | |
| 215 | | SMU03485_20231217_173346.wav | SMU03485_20231217_173346_000.wav | | PIPPYG | 150 | 144 | 0.960000 | |
| 216 | | SMU03485_20231216_174704.wav | SMU03485_20231216_174704_000.wav | | PIPPYG | 147 | 143 | 0.973000 | |
| 217 | | SMU03485_20231215_175247.wav | SMU03485_20231215_175247_000.wav | | PIPPYG | 144 | 141 | 0.979000 | |
| 218 | | SMU03485_20231218_005821.wav | SMU03485_20231218_005821_000.wav | | PIPPYG | 139 | 139 | 1.000000 | |
| | | | | | | | | | |
| | | | | | | | | | |
| | FOLDER | IN FILE | OUT FILE FS | OUT FILE ZC | AUTO ID | PULSES | MATCHING | MATCH RATIO | MANUA |
| 1782 | FOLDER | IN FILE SMU03485_20231218_200632.wav | OUT FILE FS SMU03485_20231218_200632_000.wav | OUT FILE ZC | AUTO ID PIPPYG | PULSES 5 | MATCHING 5 | MATCH RATIO 1.000000 | MANUA ' |
| 1782 1783 | FOLDER | IN FILE SMU03485_20231218_200632.wav SMU03485_20231218_200825.wav | OUT FILE FS SMU03485_20231218_200632_000.wav SMU03485_20231218_200825_000.wav | OUT FILE ZC | AUTO ID PIPPYG PIPPYG | PULSES 5 | MATCHING 5 | MATCH RATIO 1.000000 1.000000 | MANUA ' |
| 1782 1783 1784 | FOLDER | IN FILE SMU03485_20231218_200632.wav SMU03485_20231218_200825.wav SMU03485_20231218_200859.wav | OUT FILE FS SMU03485_20231218_200632_000.wev SMU03485_20231218_200825_000.wev SMU03485_20231218_200859_000.wev | OUT FILE ZC | AUTO ID PIPPYG PIPPYG PIPPYG | PULSES 5 5 5 | MATCHING 5 5 5 | MATCH RATIO 1.000000 1.000000 1.000000 | MANUA |
| 1782 1783 1784 1785 | FOLDER | IN FILE SMU03485_20231218_200632.wwv SMU03465_20231218_200852.wwv SMU03485_20231218_200859.wwv SMU03485_20231218_201408.wwv | OUT FILE FS SMU03465_20231218_200632_000.wev SMU03465_20231218_200825_000.wev SMU03456_20231218_200859_000.wev SMU03465_20231218_201468_0000.wev | OUT FILE ZC | AUTO ID PIPPYG PIPPYG PIPPYG PIPPYG PIPPYG | PULSES 5 | MATCHING 5 5 5 5 | MATCH RATIO 1.00000 1.00000 1.000000 1.000000 | MANUA |
| 1782 1783 1784 1785 1786 | FOLDER | IN FILE SMU03485_20231218_200632.wav SMU03485_20231218_200825.wav SMU03485_2023118_200195.wav SMU03485_20231218_201408.wav SMU03485_20231218_205405.wav | OUT FILE FS SMU03465_20231218_200632_000.wav SMU03465_20231218_200825_000.wav SMU03465_20231218_200850_000.wav SMU03465_02231218_20450_000.wav | OUT FILE ZC | AUTO ID PIPPYG PIPPYG PIPPYG PIPPYG PIPPYG PIPPYG PIPPYG PIPPYG | PULSES 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | MATCHING 5 5 5 5 5 | MATCH RATIO 1.00000 1.00000 1.00000 1.00000 1.00000 | MANUA |
| 1782 1783 1784 1785 1786 1787 | FOLDER | IN FILE SMU03485_20231218_200652.wev SMU03465_2023118_200859.wev SMU03465_2023118_200459.wev SMU03465_2023118_201408.wev SMU03465_2023118_201405.wev SMU03465_2023118_201405.wev | OUT FILE FS SMU03465_20231218_200632_000.vev SMU03465_20231218_200825_000.vev SMU03465_20231218_200489_000.vev SMU03465_20231218_201469_000.vev SMU03465_2023118_201405_000.vev SMU03465_2023118_201405_000.vev SMU03465_2023118_201405_000.vev SMU03465_2023118_201405_000.vev | OUT FILE ZC | AUTO ID PIPPYG PIPPYG PIPPYG PIPPYG PIPPYG PIPPYG PIPPYG PIPPYG PIPPYG | PULSES 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 | MATCHING 5 5 5 5 5 5 5 6 | MATCH RATIO 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 | MANUA |
| 1782 1783 1784 1785 1786 1787 1788 1799 | FOLDER | IN FILE SMU03485_20231218_200652.wev SMU03465_20231218_200852.wev SMU03485_20231218_200459.wev SMU03485_20231218_201408.wev SMU03485_20231218_201408.wev SMU03485_20231218_201408.wev SMU03485_20231216_170307.wev SMU03485_20231216_170307.wev | OUT FILE FS SMU03465_20231218_200632_000.wav SMU03465_20231218_200825_000.wav SMU03456_20231218_200859_000.wav SMU03456_20231218_201408_000.wav SMU03456_20231218_201408_000.wav SMU03456_20231218_201408_000.wav SMU03455_20231218_201408_000.wav SMU0345_20231218_201408_000.wav SMU0345_2023128_20148_000000.wav SMU0345_2023128_200000000000000000000000000000000000 | OUT FILE ZC | AUTO ID PIPPYG | PULSES 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 | MATCHING 5 5 5 5 5 5 5 5 4 4 | MATCH RATIO 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 | MANUA |
| 1782 1783 1784 1785 1786 1787 1788 1789 1790 | FOLDER | IN FILE SMU03465_20231218_200652.vwav SMU03465_2023118_200652.vwav SMU03465_2023118_200459.vwv SMU03465_2023118_201408.vwv SMU03465_2023118_201405.vwv SMU03465_2023118_201405.vwv SMU03465_2023118_1073037.vwv SMU03465_2023118_1073037.vwv SMU03465_2023118_1073037.vwv SMU03465_2023118_1073037.vwv | OUT FILE FS SMUB3485_20231218_200632_000.wav SMUB348_20231218_200832_000.wav SMUB348_20231218_200839_000.wav SMUB348_20231218_201840_000.wav SMUB348_20231218_201840_000.wav SMUB348_20231218_201840_000.wav SMUB348_20231218_201840_000.wav SMUB348_20231218_201840_000.wav SMUB348_20231218_201840_000.wav SMUB348_20231218_201840_000.wav | OUT FILE ZC | AUTO ID PIPPYG | PULSES 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 5 5 5 5 4 4 4 4 4 | MATCH RATIO 1.00000 1. | MANUA ' |
| 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 | FOLDER | IN FILE SMU03465_20231218_200532.wwv SMU03465_20231218_200532.wwv SMU03465_20231218_200459.wwv SMU03465_20231218_201408.wwv SMU03465_20231218_201405.wwv SMU03465_20231218_210026.wwv SMU03465_20231218_210025.wwv SMU03465_20231218_075912.wwv SMU03465_20231128_075912.wwv SMU03465_2023118_075912.WWV SMU03465_2023118_075912.WWV SMU03465_2023118_075912.WWV SMU03465_2023118_075912.WWV SMU03465_2023118_075912.WWV SMU03465_2023118_075912.WWV SMU03465_2023118_075912.WWV SMU03465_2023118_075912.WWV SMU0345_0020000000000000000000000000000000000 | OUT FILE FS SMU03465_20231218_200632_000.wev SMU03465_20231218_200852_000.wev SMU03465_20231218_200859_000.wev SMU03465_20231218_200859_000.wev SMU03465_20231218_201605_000.wev SMU03465_20231218_210005_000.wev SMU03465_20231218_1075932_000.wev SMU03465_20231218_107593_000.wev SMU03465_20231218_10759_0000.wev SMU03465_20231218_10759_0000.wev SMU03465_20231218_10759_00000000000000000000000000000000000 | OUT FILE ZC | AUTO ID PIPPYG | PULSES 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 5 5 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 1.0000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.0000 1.00 | MANUA ' |
| 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 | FOLDER | IN FILE SMU03485_20231218_200852.vvvv SMU03485_20231218_200855.vvvv SMU03485_20231218_200855.vvvv SMU03485_20231218_201403.vvv SMU03485_20231218_201403.vvv SMU03485_20231218_201403.vvv SMU03485_20231218_079912.vvvv SMU03485_20231218_079912.vvvv SMU03485_20231218_019123.vvv SMU03485_202318_019123.vvv SMU03485_202318_0191100.vvv SMU03485_202318_0191100000000000000000000000000000000 | OUT FILE FS SMUB485_20231218_200825_000.wev SMUB485_20231218_200825_000.wev SMUB485_20231218_200859_000.wev SMUB485_20231218_200859_000.wev SMUB485_20231218_201802_000.wev SMUB485_20231218_201802_000.wev SMUB485_20231218_079397_000.wev SMUB485_20231218_079397_000.wev SMUB485_20231218_191822_000.wev SMUB485_20231218_19182_000.wev SMUB485_20231218_19182_000.wev SMUB485_20231218_19182_000.wev SMUB485_20231218_19182_000.wev SMUB485_20231218_19182_000.wev SMUB485_20231218_19182_0000.wev SMUB485_20231218_19182_0000.wev SMUB45_20231218_19182_0000.wev SMUB45_20231218_19182_000000000000000000000000000000000000 | OUT FILE ZC | AUTO ID PIPPYG | PULSES 5 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 5 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 1. | MANUA ' |
| 1782 1783 1784 1785 1786 1787 1788 1789 1799 1799 1791 1792 1793 | FOLDER | IN FILE SMU03485_20231218_200632.wwv SMU03485_20231218_200853.wwv SMU03485_20231218_200459.wwv SMU03485_20231218_201408.wwv SMU03485_20231218_201405.wwv SMU03485_20231218_075912.wwv SMU03485_20231218_075912.wwv SMU03485_20231218_075912.wwv SMU03485_20231218_014123.wwv SMU03452_20231218_014123.wwv SMU0345_20231218_014123.wwv SMU0345_20231218_014123.wwv SMU0345_20231218_014123.wwv SMU0345_20231218_014123.wwv SMU0345_20231218_014123.wwv SMU0345_20231218_014123.wwv SMU0345_20231218_014123.wwv SMU0345_20231218_014123.wwv SMU0345_20231218_014123.wwv SMU0345_2023148_01445_01414148_01448_01448_01448_01448_01448_01448_01448_01 | OUT FILE FS SMU03485_20231218_200632_000.wev SMU03485_20231218_200632_000.wev SMU03485_20231218_200639_000.wev SMU03485_20231218_200639_000.wev SMU03485_20231218_200430_000.wev SMU03485_20231218_200430_000.wev SMU03485_20231218_200430_000.wev SMU03485_20231218_20040_000.wev SMU03485_20231218_119092_000.wev SMU03485_20231218_118_10252_000.wev SMU03485_20231218_118_16125_000.wev SMU03485_20231218_18_148_450_000.wev SMU03485_20231218_18_1425_000.wev SMU03485_20231218_18_148_450_000.wev SMU03485_20231218_18_148_450_000.wev SMU0345_20231218_19443_000.wev SMU0345_20231218_19443_000.wev | OUT FILE ZC | AUTO ID PIPPYG | PULSES 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 1. | MANUA ' |
| 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 | FOLDER | IN FILE SMU03485_20231218_200652.wev SMU03485_20231218_200652.wev SMU03485_20231218_200459.wev SMU03485_20231218_201408.wev SMU03485_20231218_210026.wev SMU03485_20231218_1200567.wev SMU03485_20231218_179127.wev SMU03485_20231218_194192.wev SMU03485_20231218_194192.wev SMU03485_20231218_194192.wev SMU03485_20231218_194197.wev SMU03485_20231218_194197.wev SMU03485_20231218_194197.wev SMU03485_20231218_194197.wev | OUT FILE FS SMU09465_20231218_200852_000.wev SMU09465_20231218_200859_000.wev SMU09465_20231218_200859_000.wev SMU09465_20231218_200859_000.wev SMU09465_20231218_200859_000.wev SMU09465_20231218_200859_000.wev SMU09465_20231218_200859_000.wev SMU09465_20231218_10008_ev SMU09465_20231218_1075912_000.wev SMU09465_20231218_1975912_000.wev SMU09465_20231218_194512_0000.wev SMU09465_20231218_194659_000.wev SMU09465_20231218_194659_000.wev SMU09465_20231218_194659_000.wev SMU09465_20231218_194659_000.wev SMU09465_20231218_194659_000.wev SMU09465_2023128_194070_000.wev SMU09455_2023128_194107_000.wev | OUT FILE ZC | AUTO ID PIPPYG | PULSES 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 1. | MANUA ' |
| 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 | FOLDER | IN FILE SMU03465_20231218_200652.vvvv SMU03465_20231218_200652.vvvv SMU03465_20231218_200459.vvv SMU03465_20231218_201498.vvv SMU03465_20231218_201495.vvv SMU03465_20231218_079912.vvvv SMU03465_20231218_019912.vvvv SMU03465_20231218_019408.vvv SMU03465_20231218_019408.vvv SMU03465_20231218_019407.vvvv SMU03465_20231218_019407.vvvv SMU03465_20231218_019407.vvvv SMU03465_20231218_019407.vvvv SMU03465_20231218_019407.vvvv SMU03465_20231218_019408.vvv SMU03465_20231218_01940808.vvv SMU03465_20231218_0194080800000000000000000000000000000000 | OUT FILE FS SMUB3485_20231218_200632_000.wav SMUB3485_20231218_200839_000.wav SMUD3485_20231218_200839_000.wav SMUD3485_20231218_201409_000.wav SMUD3485_20231218_201409_000.wav SMUD3485_20231218_201409_000.wav SMUD3485_20231218_073937_000.wav SMUD3485_20231218_073937_000.wav SMUD3485_20231218_073937_000.wav SMUD3485_20231218_191225_000.wav SMUD3485_20231218_191242_000.wav SMUD3485_20231218_191242_000.wav SMUD3485_20231218_191242_000.wav SMUD3485_20231218_191425_000.wav SMUD3485_20231218_191425_000.wav SMUD3485_20231218_191425_000.wav SMUD3455_20231218_194421_000.wav SMUD3455_20231218_194421_000.wav SMUD3455_20231218_194421_000.wav SMUD3455_20231218_194421_000.wav SMUD345_20231218_194421_000.wav SMUD345_20231218_194421_000.wav | OUT FILE ZC | AUTO ID PIPPYG | PULSES 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.000000 1.0000000 1.0000000 1.000000 1.000000 1.00000 1.00000 1 | MANUA ' |
| 1782 1783 1784 1785 1786 1787 1788 1789 1799 1799 1791 1792 1793 1794 1795 1795 | FOLDER | IN FILE SMU03485_20231218_200632.wev SMU03485_20231218_200852.wev SMU03485_20231218_200459.wev SMU03485_20231218_201408.wev SMU03485_20231218_201405.wev SMU03485_20231218_201405.wev SMU03485_20231218_175037.wev SMU03485_20231218_191403.wev | OUT FILE FS SMU03465_20231218_200632_000.wev SMU03465_20231218_200859_000.wev SMU03465_20231218_200859_000.wev SMU03465_20231218_201405_000.wev SMU03465_20231218_201405_000.wev SMU03465_20231218_201405_000.wev SMU03465_20231218_210026_000.wev SMU03465_20231218_105912_000.wev SMU03465_20231218_105912_000.wev SMU03465_20231218_105912_000.wev SMU03465_20231218_104545_000.wev SMU03465_20231218_134454_000.wev SMU03465_20231218_194454_000.wev SMU03455_20231218_194454_000.wev SMU03455_20231218_194454_000.wev SMU03455_20231218_194454_000.wev SMU03455_20231218_194454_000.wev SMU03455_20231218_194454_000.wev SMU03455_20231218_194454_000.wev SMU03455_20231218_194454_000.wev SMU03455_20231218_194454_000.wev SMU03455_20231218_19456_000.wev SMU03455_20231218_1000561_000.wev | OUT FILE ZC | AUTO ID PIPPYG | PULSES 5 5 5 5 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 | MATCHING 5 5 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 1. | |
| 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 | FOLDER | IN FILE SMU03485_20331218_200825.vwv SMU03485_20231218_200825.vwv SMU03485_20231218_200825.vwv SMU03485_20231218_201405.vwv SMU03485_20231218_201405.vwv SMU03485_20231218_201405.vwv SMU03485_20231218_07997_vwv SMU03485_20231218_191407.vwv SMU03485_20231218_191407.vvv SMU03485_2023128_201805.vvv | OUT FILE FS SMUB345, 20231218, 2009;42, 000, wav SMUB345, 20231218, 2009;52, 000, wav SMUB345, 20231218, 2009;52, 000, wav SMUB345, 20231218, 2009;52, 000, wav SMUB345, 20231218, 2019;52, 000, wav SMUB345, 20231218, 2019;52, 000, wav SMUB345, 20231218, 191422, 000, wav SMUB345, 20231218, 191412, 000, wav | OUT FILE ZC | AUTO ID PIPPYG | PULSES 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 1. | |
| 1782 1783 1784 1785 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 1797 1797 | FOLDER | IN FILE SMU03485_20231218_200632.wwv SMU03485_20231218_200852.wwv SMU03485_20231218_200459.wwv SMU03485_20231218_201498.wwv SMU03485_20231218_201495.wwv SMU03485_20231218_079912.wwv SMU03485_20231218_079912.wwv SMU03485_20231218_019415.wwv SMU03485_20231218_019415.wwv SMU03485_20231218_019415.wwv SMU03485_20231218_019403.wwv SMU03485_20231218_204903.wwv SMU03485_2023128_204903.wwv SMU03485_2023128_204903.wwv SMU03485_2023128_204903.wwv SMU03485_2023128_204903.wwv SMU03485_2023128_2049048_WV SMU03485_2049048_2049048_WV SMU03485_2049048_WV SMU03485_2049048_2049048_WV SMU034 | OUT FILE FS SMU03485_20231218_200632_000.wev SMU0348_0221818_200832_000.wev SMU03485_0203118_200839_000.wev SMU03485_0203118_020439_000.wev SMU03485_0203118_020439_000.wev SMU03485_0203118_073971_000.wev SMU03485_0203118_073971_000.wev SMU03485_0203118_01459_000.wev SMU03485_0203118_194949_000.wev SMU03485_0203118_194939_000.wev SMU03485_0203118_193989_000.wev SMU03485_0203118_193989_000.wev SMU03485_0203118_193989_000.wev SMU03485_0203118_193989_000.wev SMU03485_0203118_193989_000.wev SMU03485_0203118_193989_000.wev SMU03485_0203118_193989_000.wev SMU03485_0203118_193989_000.wev SMU03485_0203118_19389_000.wev SMU03485_0203118_19389_000.wev SMU03485_0203118_19389_000.wev SMU03485_0203118_19389_000.wev SMU03485_0203118_19389_000.wev SMU03485_0203118_20389_000.wev SMU0345_0203118_20389_000.wev SMU0345_0203118_20389_000.wev SMU0345_0203118_20389_000.wev SMU0345_0203118_20389_000.wev SMU0345_0203118_20389_000.wev SMU0345_0203118_20389_000.wev SMU0345_0203118_20389_000.wev SMU0345_0203118_20389_000.wev SMU0345_0203118_0000000000000000000000000000000000 | OUT FILE ZC | AUTO ID PIPPYG | PULSES | MATCHING 5 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 1. | MANUA ⁴ |
| 1782 1783 1784 1785 1786 1787 1789 1790 1790 1790 1792 1793 1795 1795 1795 1796 1798 1798 | FOLDER | IN FILE SMU03485_20231218_200652.vwv SMU03485_20231218_200592.vwv SMU03485_20231218_200198.vwv SMU03485_20231218_201408.vwv SMU03485_20231218_201408.vwv SMU03485_20231218_101452.vwv SMU03485_20231218_101452.vvv SMU03485_20231218_101452.vvv SMU03485_20231218_20193.vvv SMU0345_20231218_20193.vvv SMU0345_20231218_20193.vvv SMU0345_20231218_20193.vvv SMU0345_20231218_20193.vvv SMU0345_20231218_20193.vvv SMU0345_20231218_20193.vvv SMU0345_20231218_20193.vvv SMU0345_20231218_211404545_2019414454545454545454545454545455455455 | OUT FILE FS SMU03465_20231218_200632_000.wev SMU03465_20231218_200839_000.wev SMU03465_20231218_20195_000.wev SMU03465_20231218_20196_000.wev SMU03465_20231218_20196_000.wev SMU03465_20231218_20196_000.wev SMU03455_20231218_20196_000.wev SMU03455_20231218_101925_000.wev SMU03455_20231218_101925_000.wev SMU03455_20231218_191912_000.wev SMU03455_20231218_191912_000.wev SMU03455_20231218_191912_000.wev SMU03455_20231218_191492_000.wev SMU03455_20231218_191407_000.wev SMU03455_20231218_191402_000.wev SMU03455_20231218_128_00058_000.wev SMU03455_20231218_128_00058_000.wev SMU03455_20231218_128_00058_000.wev SMU03455_20231218_128_00058_000.wev SMU03455_2023123_132_00058_000.wev SMU03455_2023123_132_00058_000.wev SMU03455_2023123_2132_00058_000.wev SMU03455_2023123_23132_00058_000.wev SMU03455_2023123_23132_00058_000.wev SMU03455_2023123_23233_20038_000.wev SMU03455_2023123_23233_20000.wev SMU03455_2023123_2323_2000000.wev SMU03452_2023123_2320000000.wev SMU03452_20233232 | OUT FILE ZC | AUTO ID PIPPYG | PULSES 5 5 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 5 5 5 5 5 5 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 1. | |
| 1782 1783 1784 1785 1785 1786 1788 1789 1790 1791 1792 1794 1795 1794 1795 1797 1798 1797 1799 1800 | FOLDER | IN FILE SMU03465_20231218_200622.wwv SMU03465_20231218_200625.wwv SMU03465_20231218_200625.wwv SMU03465_20231218_201408.wwv SMU03465_20231218_201405.wwv SMU03465_20231218_079912.wwv SMU03465_20231218_079912.wwv SMU03465_20231218_0199107.wwv SMU03465_20231218_029103.wwv SMU03465_20231218_20930.wwv SMU03465_202312174030.wwv SMU03465_2023123_74623.wwv SMU03465_2023123_74623.wwv SMU03465_2023122_74823.wwv SMU03465_2023123_74823.wwv SMU03465_2023123_74823.wwv SMU03465_2023123_74823.wwv SMU03465_2023123_74823.wwv SMU03465_2023123_748423.wwv SMU03465_2023123_748423.wwv SMU03465_2023123_748423.wwv | OUT FILE FS SMUB3485_20231218_200632_000.weV SMUB3485_20231218_200839_000.weV SMUD3485_20231218_200839_000.weV SMUD3485_20231218_20140_000.weV SMUD3485_20231218_20140_000.weV SMUD3485_20231218_20140_000.weV SMUD3485_20231218_07393_000.weV SMUD3485_20231218_07393_000.weV SMUD3485_20231218_07393_000.weV SMUD3485_20231218_19122_000.weV SMUD3485_20231218_19123_000.weV SMUD3485_20231218_19142_000.weV SMUD3485_20231218_19142_000.weV SMUD3485_20231218_19142_000.weV SMUD3485_20231218_19142_000.weV SMUD3485_20231218_194042_000.weV SMUD3485_20231218_194042_000.weV SMUD3485_20231218_194042_000.weV SMUD3485_20231218_194080_000.weV SMUD3485_20231218_194080_000.weV SMUD3485_20231218_194080_000.weV SMUD3485_2023128_194080_000.weV SMUD3485_2023128_194080_000.weV SMUD3485_2023128_194080_000.weV SMUD3485_2023128_194080_000.weV SMUD3485_2023128_194080_000.weV SMUD3485_2023128_10430_000.weV SMUD3485_2023128_10430_000.weV SMUD3485_20231232_1782_0030_000.weV | OUT FILE ZC | AUTO ID PIPPYG P | PULSES 5 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 0.0000 | |
| 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 1795 1796 1799 1799 1800 1801 | FOLDER | IN FILE SMU03485_20231218_200632.wwv SMU03485_20231218_200852.wwv SMU03485_20231218_200459.wwv SMU03485_20231218_201408.wwv SMU03485_20231218_201405.wwv SMU03485_20231218_201405.wwv SMU03485_20231218_0149.1127.8027.wwv SMU03485_20231218_0149.1127.8027.wwv SMU03485_20231218_0149.1127.8027.wwv SMU03485_20231218_0149.1127.8027.wwv SMU03485_20231218_194140.wwv SMU03485_20231218_194043.wwv SMU03485_20231218_194043.wwv SMU03485_20231218_20149.1127.wwv SMU03485_20231218_20149.1147.wwv SMU03485_20231218_20149.11427.wwv SMU03485_20231218_20149.1147.wwv SMU03485_20231218_20149.1147.wvv SMU0345_20231218_20149.1147.wvv SMU0345_20231218_20149.1147.wvv SMU0345_20231218_20149.1147.wvv SMU0345_20231218_20149.1147.wvv SMU0345_20231218_20149.Wvv SMU0345_20231218_2014 | OUT FILE FS SMU03465_20231218_200632_000.wev SMU03465_02031218_200632_000.wev SMU03465_02031218_200639_000.wev SMU03465_02031218_200459_000.wev SMU03465_02031218_201405_000.wev SMU03465_02031218_201405_000.wev SMU03465_02031218_201405_000.wev SMU03455_02031218_20140_000.wev SMU03455_02031218_105912_000.wev SMU03455_02031218_105912_000.wev SMU03455_02031218_118_10592_000.wev SMU03455_02031218_118_105425_000.wev SMU03455_02031218_19449_000.wev SMU03455_02031218_194049_000.wev SMU03455_02031218_2018_000.wev SMU03455_02031218_194049_000.wev SMU03455_02031218_2018_0003.wev SMU03455_02031218_2018_0003.wev SMU03455_02031218_2018_0003.wev SMU03455_02031218_2018_0003.wev SMU03455_02031218_2018_0003.wev SMU03455_02031218_2018_0003.wev SMU03455_02031218_2018_0003.wev SMU03455_02031218_20184_0003.wev SMU03455_02031218_20184_0003.wev SMU03455_02031218_20184_0003.wev SMU03455_02031218_20184_0003.wev SMU03455_02031218_20184_0003.wev SMU03455_02031218_2018420_0003.wev <th>OUT FILE ZC</th> <th>AUTO ID PIPPYG P</th> <th>PULSES 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4</th> <th>MATCHING 5 5 5 5 5 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7</th> <th>MATCH RATIO 1.00000 1.</th> <th></th> | OUT FILE ZC | AUTO ID PIPPYG P | PULSES 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 5 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 | MATCH RATIO 1.00000 1. | |
| 1782 1783 1785 1785 1786 1787 1788 1789 1790 1791 1793 1794 1795 1795 1795 1795 1796 1797 1798 1799 1800 1801 1803 | FOLDER | IN FILE SMU03485_20331218_200825.vwv SMU03485_20331218_200825.vwv SMU03485_20231218_200855.vwv SMU03485_20231218_201495.vwv SMU03485_20231218_201495.vwv SMU03485_20231218_201495.vwv SMU03485_20231218_101425.vwv SMU03485_20231218_101425.vwv SMU03485_20231218_101407.vwv SMU03485_20231218_20148.vwv SMU03485_20231218_101407.vwv SMU03485_20231218_1014107.vwv SMU03485_20231218_1001410.vvv SMU03485_20231218_1001410.vvv SMU03485_20231218_1001410.vvv SMU03485_20231218_1001410.vvv SMU03485_20231218_1001410.vvv SMU03485_20231218_1001410.vvv SMU03485_20231218_1001410.vvv SMU03485_20231218_1001410.vvv SMU03485_20231218_1001410.vvv | OUT FILE FS SMU03465, 2023 1218, 200832, 000.nwv SMU03465, 2023 1218, 200832, 000.nwv SMU03465, 2023 1218, 200839, 000.nwv SMU03465, 2023 1218, 201840, 000.nwv SMU03465, 2023 1218, 201840, 000.nwv SMU03465, 2023 1218, 1218420, 000.nwv SMU03465, 2023 1218, 1918420, 000.nwv SMU03455, 2023 1218, 201840, 000.nwv | OUT FILE ZC | AUTO ID PIPPIG P | PULSES 5 5 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 0.000000 | |
| 1782 1783 1784 1785 1786 1787 1788 1790 1791 1792 1793 1794 1795 1796 1797 1798 1797 1798 1800 1800 1800 1802 1802 | FOLDER | IN FILE SMU03485_20231218_200532.wwv SMU03485_20231218_200592.wwv SMU03485_20231218_200459.wwv SMU03485_20231218_201498.wwv SMU03485_20231218_201495.wwv SMU03485_20231218_079912.wwv SMU03485_20231218_07912.wwv SMU03485_20231218_014458.wwv SMU03485_20231218_01488.wwv SMU03485_2023128_0148.wwv SMU03485_2023128_0148.wvv SMU03485_2023128_0148_0048004800480048004800480048004800480 | OUT FILE FS SMU03485_20231218_200632_000.wev SMU03485_02031218_200639_000.wev SMU03485_02031218_200639_000.wev SMU03485_02031218_20140_000.wev SMU03485_02031218_20140_000.wev SMU03485_02031218_07040_000.wev SMU03485_02031218_07040_000.wev SMU03485_02031218_07040_000.wev SMU03485_02031218_07040_000.wev SMU03485_02031218_07140_000.wev SMU03485_02031218_01491_000.wev SMU03485_02031218_194140_000.wev SMU03485_02031218_194043_000.wev SMU03485_02031218_194043_000.wev SMU03485_02031218_194043_000.wev SMU03485_02031218_194043_000.wev SMU03485_02031218_194030_000.wev SMU03485_02031218_194030_000.wev SMU03485_02031218_27182_0000.wev SMU03485_02031218_27182_0000.wev SMU03485_02031218_27182_0000.wev SMU03485_02031218_1018_0000.wev SMU03485_02031218_1018_0000.wev SMU03485_02031218_1018_0000.wev SMU03485_02031218_10380_000.wev SMU03485_02031218_10380_000.wev SMU03485_003118_18_10380_000.wev SMU03485_003118_18_10380_000.wev SMU03485_003118_18_10380_000.wev | OUT FILE ZC | AUTO ID PIPPYG P | PULSES 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 4 4 4 4 | MATCH RATIO 1.00000 1. | |
| 1782 1783 1784 1785 1786 1787 1789 1799 1799 1791 1792 1793 1794 1795 1794 1795 1799 1800 1801 1800 1801 1803 1804 | FOLDER | IN FILE SMU03485_20331218_200825.vwv SMU03485_2033128_200825.vwv SMU03485_2023128_200825.vwv SMU03485_2023128_200859.vwv SMU03485_2023128_20148.vvv SMU03485_2023128_20149.vvv SMU03485_2023128_105127.vvv SMU03485_2023128_105127.vvv SMU03485_2023128_105127.vvv SMU03485_2023128_105107.vvv SMU03485_2023128_105107.vvv SMU03485_2023128_105107.vvv SMU03485_2023128_105107.vvv SMU03485_2023128_105107.vvv SMU03485_2023128_105107.vvv SMU03485_2023128_105107.vvv SMU03485_2023128_105107.vvv SMU03485_2023128_20158_vvv SMU03485_2023128_10584.vvv SMU03485_2023128_10584.vvv SMU03485_2023128_10584.vvv SMU03485_2023128_10584.vvv SMU03485_2023128_10584.vvv SMU03485_2023128_10584.vvv | OUT FILE FS SMUB345, 2023 1218, 20094; 2000.wav SMU5445, 2023 1218, 200952, 000.wav SMU5445, 2023 1218, 200959, 000.wav SMU5445, 2023 1218, 200959, 000.wav SMU5445, 2023 1218, 201940; 000.wav SMU5445, 2023 1218, 201940; 000.wav SMU5445, 2023 1218, 191427, 000.wav SMU5445, 2023 1218, 191427, 000.wav SMU54452, 2023 1218, 191427, 000.wav SMU54452, 2023 1218, 191427, 000.wav SMU54452, 2023 1218, 191417, 000.wav SMU54452, 2023 1218, 191417, 000.wav SMU54452, 2023 1218, 191417, 000.wav SMU54452, 2023 1218, 201980, 000.wav SMU54552, 2023 1218, 1914518, 201980, 000.wav SMU54552, 2023 1218, 201980, 000.wav SMU54552, 2023 1218, 1914518, 201980, 000.wav | OUT FILE ZC | AUTO ID PIPPYG P | PULSES | MATCHING 5 5 5 5 5 5 6 6 6 7 7 7 7 7 7 7 7 7 7 7 | MATCH RATIO 1.00000 1. | |
| 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1794 1795 1794 1795 1797 1798 1800 1800 1800 1800 1803 1804 1805 | FOLDER | IN FILE SMU03465_20231218_200622.vev/ SMU03465_20231218_200622.vev/ SMU03465_20231218_200639.vev/ SMU03465_20231218_20149.vev/ SMU03465_20231218_20149.vev/ SMU03465_20231218_079912.vev/ SMU03465_20231218_191407.vev/ SMU03465_20231218_191407.vev/ SMU03465_20231218_191407.vev/ SMU03465_20231218_191407.vev/ SMU03465_20231218_191407.vev/ SMU03465_20231218_191407.vev/ SMU03465_20231218_191408.vev/ SMU03465_20231218_20149.vev/ SMU03465_20231218_20449.vev/ SMU03465_20231218_20449.ve | OUT FILE FS SMUB3485_20231218_200632_000.weV SMUB3485_20231218_200859_000.weV SMUD3485_20231218_200859_000.weV SMUD3485_20231218_20140_000.weV SMUD3485_20231218_20140_000.weV SMUD3485_20231218_20140_000.weV SMUD3485_20231218_07393_000.weV SMUD3485_20231218_07393_000.weV SMUD3485_20231218_07393_000.weV SMUD3485_20231218_19122_000.weV SMUD3485_20231218_19124_000.weV SMUD3485_20231218_19124_000.weV SMUD3485_20231218_19124_000.weV SMUD3485_20231218_19124_000.weV SMUD3485_20231218_19142_000.weV SMUD3485_20231218_194042_000.weV SMUD3485_20231218_194042_000.weV SMUD3485_20231218_194042_000.weV SMUD3485_20231218_194042_000.weV SMUD3485_20231218_194042_000.weV SMUD3485_20231218_20332_000.weV SMUD3485_2023123_178_20134_000.weV SMUD3485_2023123_178_20134_000.weV SMUD3485_2023123_178_0000.weV SMUD3485_2023123_178_00000000000000000000000000000000000 | OUT FILE ZC | AUTO ID PIPPYG | PULSES | MATCHING 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 1. | |
| 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1795 1795 1795 1795 1795 1796 1797 1798 1798 1798 1800 1801 1802 1803 1804 1805 | FOLDER | IN FILE SMU03485_20231218_200632.wwv SMU03485_20231218_200852.wwv SMU03485_20231218_200459.wwv SMU03485_20231218_201405.wwv SMU03485_20231218_201405.wwv SMU03485_20231218_01425.wwv SMU03485_20231218_01425.wwv SMU03485_20231218_01428.wwv SMU03485_20231218_191403.wwv SMU03485_20231218_191403.wwv SMU03485_20231218_191403.wwv SMU03485_20231218_191403.wwv SMU03485_20231218_191403.wwv SMU03485_20231218_20403.wwv SMU03485_2023128_10440.wwv SMU03485_2023128_10440.wwv SMU03485_2023128_10448.wwv SMU03485_2023128_10448.wvv SMU03485_2023128_10448.wvv SMU03485_2023128_10448_10448.wvv SMU03485_2023128_10448.wvv SMU03485_2023128_10448.wvv SM | OUT FILE FS SMU03485_20231218_200632_000.wev SMU03485_20231218_200639_000.wev SMU03485_20231218_200639_000.wev SMU03485_20231218_200439_000.wev SMU03485_20231218_201439_000.wev SMU03485_20231218_071991_2000.wev SMU03485_20231218_0719912_000.wev SMU03485_20231218_0719912_000.wev SMU03485_20231218_019912_000.wev SMU03485_20231218_019912_000.wev SMU03485_20231218_19419_000.wev SMU03485_20231218_194340_000.wev SMU03485_20231218_194340_000.wev SMU03485_20231218_20188_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_20188_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_20188_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19431_000.wev SMU03485_20231218_19431_000.wev SMU03485_20231218_19431_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19431_0000.wev SMU03485_20231218_19436_0000.wev SMU03485_20231218_19436_0000.wev SMU03485_20231218_19454_00000.wev | OUT FILE ZC | AUTO ID PIPPYG PIPYG PI | PULSES 5 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 1. | |
| 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1795 1796 1795 1796 1797 1798 1800 1801 1802 1803 1804 1805 | FOLDER | IN FILE SHUB345, 2033118, 200823.vwv SHUB345, 2033118, 200825.vwv SHUB345, 2033118, 200853.vwv SHUB345, 2023118, 200859.vwv SHUB345, 2023118, 200859.vwv SHUB345, 2023118, 200859.vwv SHUB345, 2023118, 1203957.vwv SHUB345, 2023118, 191077.vwv SHUB345, 2023118, 20183.vwv SHUB345, 2023118, 20183.vwv SHUB345, 2023118, 20183.vwv SHUB345, 2023128, 20183.vwv SHUB345, 2023128, 20183.vwv SHUB345, 2023128, 19184, 20183.vwv SHUB345, 2023128, 19184, 20183.vwv SHUB345, 2023128, 19184, 20184.vwv | OUT FILE FS SMU03465, 20231218, 200802, 000.nwv SMU03465, 20231218, 200802, 000.nwv SMU03465, 20231218, 200805, 000.nwv SMU03465, 20231218, 200805, 000.nwv SMU03465, 20231218, 201905, 000.nwv SMU03465, 20231218, 201905, 000.nwv SMU03465, 20231218, 201905, 000.nwv SMU03465, 20231218, 071902, 000.nwv SMU03465, 20231218, 071927, 000.nwv SMU03465, 20231218, 191822, 000.nwv SMU03465, 20231218, 194905, 000.nwv SMU03465, 20231218, 19380, 000.nwv SMU03465, 20231218, 20380, 000.nwv SMU03465, 20231218, 20380, 000.nwv SMU03465, 2023123, 17482, 0000.nwv SMU03455, 2023123, 17482, 0000.nwv SMU03455, 2023123, 194950, 000.nwv SMU03455, 2023123, 194950, 000.nwv SMU03455, 20231218, 195950, 000.nwv SMU03455, 20231218, 195950, 000.nwv SMU03455, 20231218, 195950, 000.nwv SMU03455, 20231218, 195950, 000.nwv <th>OUT FILE ZC</th> <th>AUTO ID PIPPYG PIPYG PI</th> <th>PULSES 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</th> <th>MATCHING 5 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</th> <th>MATCH RATIO 1.00000 1</th> <th></th> | OUT FILE ZC | AUTO ID PIPPYG PIPYG PI | PULSES 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 1 | |
| 1782 1783 1784 1785 1786 1787 1788 1799 1791 1791 1792 1794 1793 1794 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 1805 1804 | FOLDER | IN FILE SMU03485_20231218_200532.wwv SMU03465_202118_200592.wwv SMU03465_2023118_20059.wwv SMU03465_2023118_20059.wwv SMU03465_2023128_20109.wwv SMU03455_2023128_07992.wwv | OUT FILE FS SMU03485_20231218_200632_000.wev SMU03485_02031218_200639_000.wev SMU03485_02031218_200639_000.wev SMU03485_02031218_200639_000.wev SMU03485_02031218_020439_000.wev SMU03485_02031218_020439_000.wev SMU03485_02031218_070492_000.wev SMU03485_02031218_070492_000.wev SMU03485_02031218_070492_000.wev SMU03485_02031218_071492_000.wev SMU03485_02031218_10445_000.wev SMU03485_02031218_19445_000.wev SMU03485_02031218_194043_000.wev SMU03485_02031218_194043_000.wev SMU03485_02031218_194043_000.wev SMU03485_02031218_194043_000.wev SMU03485_02031218_274032_000.wev SMU03485_02031218_19436_000.wev SMU03485_02031218_19436_000.wev SMU03485_02031218_19436_000.wev SMU03485_02031218_1038_1000.wev SMU03485_02031218_1038_1000.wev SMU03485_02031218_1038_1000.wev SMU03485_02031218_1038_1000.wev SMU03485_02031218_1038_1000.wev SMU03485_02031218_1038_1000.wev SMU03485_02031218_1038_1000.wev SMU03485_02031218_1038_1000.wev SMU03485_02031218_1038_1000.wev | OUT FILE ZC | AUTO ID PIPPYG P | PULSES 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 5 5 5 5 5 5 5 5 5 4 4 4 4 4 4 | MATCH RATIO 1.00000 1. | |
| 1782 1783 1784 1785 1786 1787 1788 1799 1790 1791 1792 1793 1795 1796 1797 1795 1796 1800 1800 1800 1800 1800 1806 1806 180 | FOLDER | IN FILE SMU03485_20331218_200825.vwv SMU03485_20331218_200825.vwv SMU03485_20231218_200855.vwv SMU03485_20231218_200855.vwv SMU03485_20231218_201405.vwv SMU03485_20231218_201405.vwv SMU03485_20231218_10125.vwv SMU03485_20231218_10125.vwv SMU03485_20231218_10127.vwv SMU03485_20231218_10127.vwv SMU03485_20231218_10127.vwv SMU03485_20231218_10127.vwv SMU03485_20231218_10127.vwv SMU03485_20231218_10127.vwv SMU03485_20231218_20145.vwv SMU03485_20231218_20145.vwv SMU03485_20231218_20158.vwv SMU03485_20231218_20158.vwv SMU03485_20231218_20158.vwv SMU03485_20231218_20158.vwv SMU03485_20231218_20158.vwv SMU03485_20231218_20158.vwv SMU03485_20231218_10158.vvv | OUT FILE FS SMUB3485, 2023 1218, 200828, 2000.new SMUB3485, 2023 1218, 200839, 2000.new SMUB3485, 2023 1218, 200859, 2000.new SMUB3485, 2023 1218, 200859, 2000.new SMUB3485, 2023 1218, 201849, 2000.new SMUB3485, 2023 1218, 201849, 2000.new SMUB3485, 2023 1218, 201849, 2000.new SMUB3485, 2023 1218, 175837, 2000.new SMUB3485, 2023 1218, 191812, 2000.new SMUB3485, 2023 1218, 1201840, 2000.new SMUB3485, 2023 1218, 1201840, 2000.new SMUB3485, 2023 1218, 200950, 000.new SMUB3485, 2023 1218, 200950, 000.new SMUB3485, 2023 1218, 201840, 2000.new SMUB3485, 2023 1218, 121814, 0000.new SMUB3485, 2023 1218, 191814, 2000.new SMUB3485, 2023 1218, 191814, 20000.new SMUB3485, 2023 1218, 191814, 19000.new | OUT FILE ZC | AUTO ID PIPPIG P | PULSES 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 1. | |
| 1782 1783 1784 1785 1786 1787 1789 1799 1799 1799 1799 1799 1799 | FOLDER | IN FILE SMU03465_20231218_200532.wwv SMU03465_20231218_200532.wwv SMU03465_20231218_200459.wwv SMU03465_20231218_20405.wwv SMU03465_20231218_20405.wwv SMU03465_20231218_079327.wwv SMU03465_20231218_079327.wwv SMU03465_20231218_019403.wwv SMU03465_20231218_019403.wwv SMU03465_20231218_0194043.wwv SMU03465_20231218_0194043.wwv SMU03465_20231218_019405.wwv SMU03465_20231218_019405.wwv SMU03465_20231218_019405.wwv SMU03465_20231218_019405.wwv SMU03465_20231218_019405.wwv SMU03465_20231218_019405.wwv SMU03465_20231218_019406.wwv SMU03465_20231218_094508.wwv SMU03465_20231218_02945.wwv SMU0345_20231218_02945.wwv SMU0345_20231218_02945.wwv SMU0345_20231218_02945.wwv SMU0345_20231218_02945.wvv SMU0345_2023128_02945.wvv SMU0345_2023128_02945.wvv SMU0345_2023128_045.wvv SMU0345_20 | OUT FILE FS SMU08485_20231218_200632_000.weV SMU08485_20231218_200859_000.weV SMU08485_20231218_200859_000.weV SMU08485_20231218_20180_000.weV SMU08485_20231218_20180_000.weV SMU08485_20231218_20180_000.weV SMU08485_20231218_07937_0000.weV SMU08485_20231218_07937_000.weV SMU08485_20231218_07937_000.weV SMU08485_20231218_0718_0700.weV SMU08485_20231218_181225_000.weV SMU08485_20231218_19140_000.weV SMU08485_20231218_194040_000.weV SMU08485_20231218_194040_000.weV SMU08485_20231218_194040_000.weV SMU08485_20231218_194080_000.weV SMU08485_20231218_20480_000.weV SMU08485_20231218_20480_000.weV SMU08485_20231218_20480_000.weV SMU08485_20231218_20480_000.weV SMU08485_2023123_178_20380_000.weV SMU08485_2023123_178_07842_0000.weV SMU08485_2023123_18_07842_0000.weV SMU08485_2023123_18_07842_0000.weV SMU08485_2023123_18_07842_0000.weV SMU08485_2023123_18_19843_0000.weV SMU08485_2023123_18_09848_0000.weV SMU08485_2023123_18_09848_0000.weV SMU08485_2023123_18_09848_0000.weV <th></th> <th>AUTO ID PIPPYG P</th> <th>PULSES</th> <th>MATCHING 5 5 5 5 5 5 5 5 5 5 5 5 5 6 4 4 4 4 4 4</th> <th>MATCH RATIO 1.00000 1.</th> <th></th> | | AUTO ID PIPPYG P | PULSES | MATCHING 5 5 5 5 5 5 5 5 5 5 5 5 5 6 4 4 4 4 4 4 | MATCH RATIO 1.00000 1. | |
| 1782 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1795 1795 1795 1795 1795 1795 1799 1798 1800 1800 1800 1800 1800 1805 1806 1807 1808 1807 1809 1810 | FOLDER | IN FILE SMU03465_2031118_200855.wev SMU03465_203118_200855.wev SMU03465_202118_200855.wev SMU03465_202118_200855.wev SMU03465_202118_200405.wev SMU03465_202118_200405.wev SMU03465_202118_200405.wev SMU03465_202118_1017057.wev SMU03465_202118_1017057.wev SMU03465_202118_101107.wev SMU03465_202118_101107.wev SMU03465_202118_101107.wev SMU03465_202118_101407.wev SMU03465_202118_101407.wev SMU03465_202118_101407.wev SMU03465_202118_101407.wev SMU03465_202118_101407.wev SMU03465_202118_101407.wev SMU03465_202118_101407.wev SMU03465_202118_101407.wev SMU03465_202118_20148.wev SMU03465_202118_20148.wev SMU03465_202118_20148.wev SMU03465_202118_20148.wev SMU03465_202118_20148.wev SMU03465_202118_20148.wev SMU03465_202118_20148.wev SMU03465_202118_10554.wev SMU03465_202118_10554.wev SMU03465_202118_10554.wev SMU03465_202118_10554.wev SMU03465_202118_10554.wev SMU03465_202118_10554.wev SMU03465_202118_10554.wev SMU03465_202118_10349.wev SMU03465_202118_10349.wev SMU03465_202118_10349.wev SMU03465_202118_10349.wev SMU03465_202118_10554.wev SMU03465_202118_10349.wev SMU03452_202118_10349.wev SMU03452_202118_20349.wev SMU03452_2021 | OUT FILE FS SMU03485_20231218_200632_000.wev SMU03485_20231218_200632_000.wev SMU03485_20231218_200639_000.wev SMU03485_20231218_200639_000.wev SMU03485_20231218_20149_000.wev SMU03485_20231218_075912_000.wev SMU03485_20231218_075912_000.wev SMU03485_20231218_075912_000.wev SMU03485_20231218_0157912_000.wev SMU03485_20231218_0157912_000.wev SMU03485_20231218_0157912_000.wev SMU03485_20231218_19419_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19431_0000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19431_0000.wev SMU03485_20231218_19430_000.wev SMU03485_20231218_19430_000.wev | | AUTO ID PIPPYG P | PULSES 5 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 5 5 6 6 6 7 5 7 5 7 6 7 7 7 7 7 | MATCH RATIO 1.00000 1. | |
| 1782 1783 1784 1785 1786 1787 1789 1790 1791 1793 1794 1793 1794 1795 1795 1795 1795 1795 1795 1795 1795 | FOLDER | IN FILE SMU03465_20231218_200622.vvvv SMU03465_2023128_200622.vvvv SMU03465_2023128_200659.vvvv SMU03465_2023128_20059.vvvv SMU03465_2023128_20059.vvvv SMU03465_2023128_203405.vvv SMU03465_2023128_109107.vvvv SMU03465_2023128_19107.vvvv SMU03465_2023128_19107.vvvv SMU03465_2023128_19107.vvvv SMU03465_2023128_19107.vvvv SMU03465_2023128_19107.vvvv SMU03465_2023128_19107.vvvv SMU03465_2023128_19107.vvvv SMU03465_2023128_20108.vvv SMU03465_2023128_20036.vvv SMU03465_2023128_200368.vvv SMU03465_2 | OUT FILE FS SMU08485_20231218_20080;ep SMU0848_20231218_20089;p000;wv SMU0848_20231218_20089;p000;wv SMU0848_20231218_20089;p000;wv SMU0848_20231218_20480;p000;wv SMU0848_20231218_20480;p000;wv SMU0848_20231218_107393;p000;wv SMU0848_20231218_107393;p000;wv SMU0848_20231218_107393;p000;wv SMU0848_20231218_10742;p000;wv SMU0848_20231218_118_19122;p000;wv SMU0848_20231218_118_19122;p000;wv SMU0848_20231218_118_19122;p000;wv SMU0848_20231218_118_19122;p000;wv SMU0848_20231218_118_19142;p000;wv SMU0848_20231218_118_19142;p000;wv SMU0848_2023123_18_19142;p000;wv SMU0848_2023123_18_19142;p000;wv SMU0848_2023123_178_20180;p00;wv SMU0848_2023123_178_20380;p00;wv SMU0848_2023123_178_20380;p00;wv SMU0848_2023123_18_19148_p004;wv SMU0848_2023123_18_19148_p004;wv SMU0848_2023123_18_19148_p004;wv SMU0848_2023123_18_19148_p004;wv SMU0848_2023123_18_19148_p004;wv SMU0848_2023123_18_199426;wv SMU0848_2023123_18_199426;wv SMU0848_2023123_18_18_199426;wv | | AUTO ID PIPPYG P | PULSES | MATCHING 5 5 5 5 5 5 5 5 5 5 5 6 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 1. | |
| 1782 1783 1784 1785 1786 1787 1789 1799 1791 1791 1792 1793 1794 1793 1794 1795 1796 1797 1796 1797 1798 1799 1800 1801 1802 1803 1801 1805 1805 1805 1805 1805 1805 1805 | FOLDER | IN FILE SMU03485_20231218_200532.wwv SMU03485_2023118_200593.wwv SMU03485_20231218_201958.wwv SMU03485_20231218_201958.wwv SMU03485_20231218_201958.wwv SMU03485_20231218_201958.wwv SMU03485_20231218_079127.wwv SMU03485_20231218_079127.wwv SMU03485_20231218_079127.wwv SMU03485_20231218_019127.wwv SMU03485_20231218_019127.wwv SMU03485_20231218_019142.wwv SMU03485_20231218_019142.wwv SMU03485_20231218_019148.wwv SMU03485_20231218_019148.wwv SMU03485_2023128_019148.wwv SMU03485_2023128_019148.wwv SMU03485_2023128_01918_0.wwv SMU03485_2023128_01918_0.wwv SMU03485_2023128_01918_0.wwv SMU03485_2023128_01918_0.wwv SMU03485_2023128_01918_0.wwv SMU03485_2023128_01918_0.wwv SMU03485_2023128_023128_01918.wwv SMU03485_2023128_023128_0718_wvv SMU03485_2023128_023128_0718_00016.wwv SMU03485_2023128_023128_00016.wwv SMU03485_2023128_023128_00016.wwv SMU03485_2023128_023128_00016.wwv SMU03485_2023128_023128_00016.wwv | OUT FILE FS SMU03485_20231218_200632_000.wev SMU03485_20231218_200639_000.wev SMU03485_20231218_200639_000.wev SMU03485_20231218_20163_000.wev SMU03485_20231218_20163_000.wev SMU03485_20231218_20163_000.wev SMU03485_20231218_07042_000.wev SMU03485_20231218_07042_000.wev SMU03485_20231218_07142_000.wev SMU03485_20231218_016725_000.wev SMU03485_20231218_016725_000.wev SMU03485_20231218_016725_000.wev SMU03485_20231218_016425_000.wev SMU03485_20231218_19443_000.wev SMU03485_20231218_194043_000.wev SMU03485_20231218_194043_000.wev SMU03485_20231218_194043_000.wev SMU03485_20231218_194043_000.wev SMU03485_20231218_27182_0000.wev SMU03485_20231218_19436_000.wev SMU03485_20231218_10918_000.wev SMU03485_20231218_10918_000.wev SMU03485_20231218_10918_000.wev SMU03485_20231218_10918_000.wev SMU03485_20231218_10918_000.wev SMU03485_20231218_10918_000.wev SMU03485_20231218_10918_000.wev SMU03485_20231218_10918_000.wev SMU03485_20231218_10918_000.wev | | AUTO ID PIPPYG P | PULSES | MATCHING 5 5 5 5 5 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 1. | |
| 1782 1783 1784 1785 1786 1787 1789 1790 1791 1792 1793 1794 1795 1796 1795 1796 1795 1796 1797 1798 1800 1801 1802 1803 1804 1805 1806 1806 1806 1806 1806 1806 1806 1806 | FOLDER | IN FILE SMU03485_20231218_200825.vwv SMU03485_20231218_200855.vwv SMU03455_20231218_200855.vwv SMU0345_20231218_200455.vwv SMU0345_20231218_20405.vwv SMU0345_20231218_20405.vwv SMU0345_20231218_191072.vwv SMU0345_20231218_19107.vwv SMU0345_20231218_19107.vwv SMU0345_20231218_19107.vwv SMU0345_20231218_19107.vwv SMU0345_20231218_19107.vwv SMU0345_20231218_19107.vwv SMU0345_20231218_19107.vwv SMU0345_20231218_19107.vwv SMU0345_20231218_102183.vwv SMU0345_20231218_102183.vwv SMU0345_20231218_102183.vwv SMU0345_20231218_102183.vwv SMU0345_20231218_102183.vwv SMU0345_20231218_102183.vwv SMU0345_20231218_107447.vwv SMU0345_20231218_107447.vvv SMU0345_20231218_107447.vvv SMU0345_20231218_109565.vvv SMU0345_20231218_109565.vvv SMU0345_20231218_109565.vvv SMU0345_20231218_20395.vvv SMU0345_20231218_19239.vvv SMU0345_20231218_19239.vvv SMU0345_20231218_19239.vvv SMU0345_20231218_20395.vvv SMU0345_20231218_203 | OUT FILE FS SMU03465, 20231218, 200802, 000.nwv SMU03465, 20231218, 200802, 000.nwv SMU03465, 20231218, 200805, 000.nwv SMU03465, 20231218, 201905, 000.nwv SMU03465, 20231218, 201905, 000.nwv SMU03465, 20231218, 201905, 000.nwv SMU03465, 20231218, 271920, 000.nwv SMU03465, 20231218, 073927, 000.nwv SMU03465, 20231218, 073927, 000.nwv SMU03465, 20231218, 191827, 000.nwv SMU03465, 20231218, 191827, 000.nwv SMU03465, 20231218, 191827, 000.nwv SMU03465, 20231218, 1918127, 000.nwv SMU03465, 20231218, 1918127, 000.nwv SMU03465, 20231218, 191812, 0000.nwv SMU03465, 20231218, 191827, 0000.nwv SMU03465, 20231218, 194806, 000.nwv SMU03452, 20231218, 194814, | | AUTO ID PIPPYG P | PULSES | MATCHING 5 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 1 | |
| 1782 1783 1784 1785 1786 1787 1789 1799 1799 1799 1799 1799 1799 | FOLDER | IN FILE SMU03465_20231218_200582.wwv SMU03465_022118_200593.wwv SMU03465_022118_200593.wwv SMU03465_022118_20169.wwv SMU03465_022118_0210505.wwv SMU03465_022118_02105.wwv SMU03465_022118_071057.wwv SMU03465_022118_071057.wwv SMU03465_022118_07107.wwv SMU03465_022118_07107.wwv SMU03465_022118_07118_07107.wwv SMU03465_022118_07128_07107.wwv SMU03465_022118_0718_07107.wwv SMU03455_022118_0718_07147.wwv SMU03455_022118_0718_07147.wwv SMU03455_022118_0718_07147.wwv SMU03455_022118_0718_0714.wwv SMU03455_022118_0718_0714.wwv SMU03455_022118_0718_0714.wwv SMU03455_022118_02039.wwv SMU03455_022118_ | OUT FILE FS SMU03485_20231218_200632_000.wev SMU03485_20231218_200632_000.wev SMU03485_20231218_200632_000.wev SMU03485_20231218_200632_000.wev SMU03485_20231218_201632_000.wev SMU03485_20231218_200632_000.wev SMU03485_20231218_210262_000.wev SMU03485_20231218_07397_000.wev SMU03485_20231218_07397_000.wev SMU03485_20231218_19125_000.wev SMU03485_20231218_191425_000.wev SMU03485_20231218_191425_000.wev SMU03485_20231218_191435_000.wev SMU03485_20231218_191435_000.wev SMU03485_20231218_19436_000.wev SMU03485_20231218_19436_000.wev SMU03485_20231218_20380_000.wev SMU03485_2023123_178_20380_000.wev SMU03485_2023123_178_0316_000.wev SMU03485_2023123_178_0316_000.wev SMU03485_2023123_178_0316_000.wev SMU03485_2023123_18_0316_000.wev SMU03485_2023123_18_0316_000.wev SMU03485_2023123_18_0316_000.wev SMU03485_2023123_18_0316_000.wev SMU03485_2023123_18_0316_000.wev SMU03485_2023123_18_0316_000.wev SMU03485_2023123_18_0316_000.wev SMU03485_2023123_18_0316_0000.wev < | | AUTO ID PIPPYG P | PULSES | MATCHING 5 5 5 5 5 5 5 5 5 5 5 5 5 6 4 4 4 4 4 4 | MATCH RATIO 1.00000 1. | |
| 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1795 1795 1795 1795 1795 1795 1795 1795 | FOLDER | IN FILE SMU03485_20231218_200825.vwv SMU03485_20231218_200825.vwv SMU03485_20231218_200855.vwv SMU03485_20231218_200855.vwv SMU03485_20231218_200455.vwv SMU03485_20231218_200455.vwv SMU03485_20231218_200455.vwv SMU03485_20231218_079127.vwv SMU03485_20231218_079127.vwv SMU03485_20231218_079127.vwv SMU03485_20231218_191107.vwv SMU03485_20231218_191107.vwv SMU03485_20231218_19107.vwv SMU03485_20231218_19107.vwv SMU03485_20231218_19107.vwv SMU03485_20231218_19107.vwv SMU03485_20231218_191017.vwv SMU03485_20231218_120184.vwv SMU03485_20231218_20184.vwv SMU03485_20231218_20184.vwv SMU03485_20231218_191054.vwv SMU03485_20231218_1918_10184.vwv SMU03485_20231218_1918_180.vwv SMU03485_20231218_1918_180.vwv SMU03485_20231218_1918_0054.vwv SMU03485_20231218_200594.vwv SMU03485_20231218_200594.vwv SMU03485_20231218_200594.vwv SMU03485_20231218_200594.vwv SMU03485_20231218_200594.vwv SMU03485_20231218_20359. | OUT FILE FS SMUB3485, 2023 1218, 200822, 000.may/ SMUB3485, 2023 1218, 200859, 000.may/ SMUB3485, 2023 1218, 200859, 000.may/ SMUB3485, 2023 1218, 200859, 000.may/ SMUB3485, 2023 1218, 201859, 000.may/ SMUB3485, 2023 1218, 201849, 000.may/ SMUB3485, 2023 1218, 201849, 000.may/ SMUB3485, 2023 1218, 071827, 000.may/ SMUB3485, 2023 1218, 191812, 000.may/ SMUB3485, 2023 1218, 200950, 000.may/ SMUB3455, 2023 1218, 2009514, 000.may/ SMUB3455, 2023 1218, 200950, 000.may/ SMUB3455, 2023 1218, 200950, 000.may/ SMUB3455, 2023 1218, 2009514, 000.may/ </th <th></th> <th>AUTO ID PIPPTG P</th> <th>PULSES</th> <th>MATCHING 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4</th> <th>MATCH RATIO 1.00000</th> <th></th> | | AUTO ID PIPPTG P | PULSES | MATCHING 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 | |
| 1782 1783 1784 1785 1786 1788 1789 1790 1791 1792 1793 1794 1795 1795 1795 1795 1795 1795 1795 1800 1800 1800 1800 1800 1800 1800 180 | FOLDER | IN FILE SMU03465_20231218_200625.vev SMU03465_2023118_200639.vev SMU03465_2023118_20059.vev SMU03465_2023118_20405.vev SMU03465_2023118_20405.vev SMU03465_2023118_20405.vev SMU03465_2023118_07407.vev SMU03465_2023118_07407.vev SMU03465_2023118_07407.vev SMU03465_2023118_07407.vev SMU03465_2023118_07407.vev SMU03465_2023118_07407.vev SMU03465_2023118_07407.vev SMU03465_2023118_07407.vev SMU03465_20231218_07407.vev SMU03465_20231218_07407.vev SMU03455_20231218_07407.vev SMU03455_20231218_07407.vev SMU03455_20231218_07182_07407.vev SMU03455_20231218_07182_07405.vev SMU03455_20231218_07142.vev SMU03455_20231218_07142.vev SMU03455_20231218_07142.vev SMU03455_20231218_07142.vev SMU03455_20231218_07142.vev SMU03455_20231218_07142.vev SMU03455_20231218_07142.vev SMU03455_20231218_07148_07427.vev SMU03455_20231218_07148_07427.vev SMU03455_20231218_07148_07445.vev SMU03455_20231218_07148_07445.vev | OUT FILE FS SMU08485_20231218_200852_000.weV SMU08485_20231218_200859_000.weV SMU08485_20231218_200859_000.weV SMU08485_20231218_20180_000.weV SMU08485_20231218_20180_000.weV SMU08485_20231218_20180_000.weV SMU08485_20231218_07939_000.weV SMU08485_20231218_07939_000.weV SMU08485_20231218_07930_000.weV SMU08485_20231218_07930_000.weV SMU08485_20231218_181225_000.weV SMU08485_20231218_19142_000.weV SMU08485_20231218_19142_000.weV SMU08485_20231218_19142_000.weV SMU08485_20231218_19480_000.weV SMU08485_20231218_19480_000.weV SMU08485_20231218_19480_000.weV SMU08485_20231218_19480_000.weV SMU08485_20231218_19480_000.weV SMU08485_20231218_20380_000.weV SMU08485_20231218_20380_000.weV SMU08485_20231218_19480_000.weV SMU08485_20231218_19480_000.weV SMU08485_20231218_19480_000.weV SMU08485_20231218_19480_000.weV SMU08485_20231218_19480_000.weV SMU08485_20231218_199380_000.weV SMU08485_20231218_20809_000.weV SMU08485_20231218_20809_000.weV <t< th=""><th></th><th>AUTO ID PIPPYG P</th><th>PULSES</th><th>MATCHING 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</th><th>MATCH RATIO 1.00000 1.</th><th></th></t<> | | AUTO ID PIPPYG P | PULSES | MATCHING 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 1. | |
| 1782 1783 1784 1785 1786 1787 1789 1799 1791 1791 1792 1793 1794 1793 1794 1795 1796 1797 1796 1800 1800 1800 1800 1800 1800 1800 180 | FOLDER | IN FILE SMU03485_20231218_200532.wwv SMU03485_20231218_200593.wwv SMU03485_20231218_200593.wwv SMU03485_20231218_200595.wwv SMU03485_20231218_20505.wwv SMU03485_20231218_20505.wwv SMU03485_20231218_07912.wwv SMU03485_20231218_07912.wwv SMU03485_20231218_07912.wwv SMU03485_20231218_07912.wwv SMU03485_20231218_0112.wwv SMU03485_20231218_0112.wwv SMU03485_20231218_0112.wwv SMU03485_20231218_0112.wwv SMU03485_20231218_0112.wwv SMU03485_20231218_0112.wwv SMU03485_20231218_01308.wwv SMU03485_20231218_0120.8008.wwv SMU03485_2023122_03128_0138.wwv SMU03485_2023128_02128_0138.wwv SMU03485_2023128_02128_0138.wwv SMU03485_2023128_02128_0138.wwv SMU03485_2023128_02128_0138.wwv SMU03485_2023128_02128_00016.wwv SMU03485_2023128_02128_020016.wwv SMU03485_2023128_02138_020016.wwv SMU03485_2023128_02003128_02003128_02003128.wvv SMU03485_2023128_02003128_02003128_02003128.wvv SMU03485_2023128_02003128_02003128_02003128.wvv SMU03485_20231218_020038 | OUT FILE FS SMU03485_20231218_200632_000.weV SMU03485_20231218_200639_000.weV SMU03485_20231218_200639_000.weV SMU03485_20231218_200459_000.weV SMU03485_20231218_20140_000.weV SMU03485_20231218_20140_000.weV SMU03485_20231218_07042_000.weV SMU03485_20231218_07042_000.weV SMU03485_20231218_07142_000.weV SMU03485_20231218_01412_000.weV SMU03485_20231218_01412_000.weV SMU03485_20231218_10443_000.weV SMU03485_20231218_194042_000.weV SMU03485_20231218_194042_000.weV SMU03485_20231218_194042_000.weV SMU03485_20231218_194042_000.weV SMU03485_20231218_194042_000.weV SMU03485_20231218_194042_000.weV SMU03485_20231218_217482_0000.weV SMU03485_20231218_10340_000.weV SMU03485_20231218_10340_000.weV SMU03485_20231218_10340_000.weV SMU03485_20231218_10340_000.weV SMU03485_20231218_10340_000.weV SMU03485_20231218_103418_0000.weV SMU03485_20231218_103418_0000.weV SMU03485_20231218_103418_0000.weV SMU03485_20231218_03400_000.weV SMU03485_20231218_03400_000.weV <t< th=""><th></th><th>AUTO ID PIPPYG P</th><th>PULSES 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4</th><th>MATCHING 5 5 5 5 5 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4</th><th>MATCH RATIO 1.00000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.00000 0.0000 0.00000</th><th></th></t<> | | AUTO ID PIPPYG P | PULSES 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | MATCHING 5 5 5 5 5 5 5 5 5 5 6 4 4 4 4 4 4 4 4 4 | MATCH RATIO 1.00000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.00000 0.0000 0.00000 | |



Appendix II

Landscape Plan



Appendix III Lighting plan





Results

| Eav | 6.19 |
|-----------|-------|
| Emin | 1.24 |
| Emax | 17.70 |
| Emin/Emax | 0.07 |
| Emin/Eav | 0.20 |
| | |

Appendix IV



Bat data within 10km of the site

| BCIreland data: search results 8 Jan 2024 | | | | | |
|--|-----------------------------|----------------------------|-----------------------------|---|--|
| Search pa of all spec | rameters: F ies within 1 | Roosts 0000m | Transeo of N89 | cts Ad-hoc observation 00168029 | sites with observations |
| Roosts | | | | | |
| Name | Grid referenc e | Grid ref easti ng | Grid ref north ing | Address | Species observed |
| Ardbracc an Church of Ireland | N82836 68243 | 282 836 | 2682 43 | Ardbraccan, Navan, County Meath | Pipistrellus spp. (45kHz/55kHz),Plecot us auritus,Nyctalus leisleri,Pipistrellus pygmaeus,Rhinolophu s hipposideros |
| Ardmulc han Church | N90788 70185 | 290 788 | 2701 85 | Ardmulchan Church (ME025-020), Navan, Co. Meath | Nyctalus leisleri,Pipistrellus pygmaeus |
| Babes Bridge, Navan | N89021 69889 | 289 021 | 2698 89 | Babe's Bridge, Navan, County Meath | Myotis daubentonii |
| Beaupar c, 2- storey house | N97069 5 | 297 000 | 2695 00 | Beauparc, Navan, County Meath | Pipistrellus pipistrellus (45kHz) |
| Dowdsto wn Cottage | N90017 63884 | 290 017 | 2638 84 | Kilcarn, Navan, Co. Meath | Plecotus auritus |
| Duignan s Bungalo w | N87000 67000 | 287 000 | 2670 00 | Convent Road, Navan, Co. Meath | Pipistrellus spp. (45kHz/55kHz) |
| Fennor, derelict house | N97272 8 | 297 200 | 2728 00 | Slane, County Meath | Pipistrellus pygmaeus |
| Janeville Cottage | N97473 5 | 297 400 | 2735 00 | Slane, County Meath | Myotis natterreri,Pipistrellus pygmaeus |
| Johnsto wn Bridge | N8966 | 289 000 | 2660 00 | Navan, County Meath | Myotis daubentonii |
| Oak tree Slane Castle demesne | N95007 74348 | 295 007 | 2743 48 | CourtyardSlane CastleSlaneCo. Meath | Nyctalus leisleri |



| Rail | N9670 | 296 | 2700 | Drogheda-Navan | Unidentified bat |
|--------------------------------------|-----------------------------|----------------------|----------------------|--|---|
| underbri | | 000 | 00 | Railway Line, | |
| Skrype | N051/6 | 295 | 2605 | Skrype Tower | Plecotus |
| Tower | 60525 | 146 | 25 | Skryne, Co. Meath | auritus,Pipistrellus pipistrellus (45kHz) |
| Slane Bridge Georgian House | N96773 7 | 296 700 | 2737 00 | Slane, County Meath | Pipistrellus pygmaeus |
| Slane Castle- Tree roost 1 | N95474 5 | 295 400 | 2745 00 | Slane, County Meath | Nyctalus leisleri |
| St Martha\\\' s | N89266 8 | 289 200 | 2668 00 | Athlumney, Navan, County Meath | Unidentified bat |
| College and School | | | | | |
| St Patricks Church of | N96074 2 | 296 000 | 2742 00 | Slane, Navan, County Meath | Pipistrellus pygmaeus,Nyctalus leisleri |
| Ireland, Slane | | | | | |
| St Patricks Donaghp atrick | N81972 5 | 281 900 | 2725 00 | Donaghpatrick, Kells, County Meath | Myotis daubentonii |
| Tara | N92159 8 | 292 100 | 2598 00 | Tara, Navan, County Meath | Plecotus auritus |
| The Rectory Boyne Road | N88868 7 | 288 800 | 2687 00 | Boyne Road, Navan, County Meath | Pipistrellus pygmaeus |
| Thomps on domestic dwelling | N83634 71112 | 283 634 | 2711 12 | Kevin Thompson,Riverview House,Donaghpatric k,Navan,Co. Meath | Nyctalus leisleri |
| Unknow n | N87170 61047 | 287 170 | 2610 47 | Bonfield,Bective,Nav anCo. Meath | Pipistrellus pipistrellus (45kHz) |
| Transect s | | | | | |
| Name | Grid referenc e start | Grid ref easti | Grid ref north | Species observed | |



| | | ng start | ing start | |
|--|-----------------|-------------|--------------|--|
| 2km | N87400 67400 | 287 400 | 2674 00 | Unidentified bat, Myotis daubentonii, Nyctalus leisleri, Pipistrellus pygmaeus, Pipistrellus pipistrellus (45kHz), Pipistrellus nathusii |
| 2km d/s Blackwat er Cfl | N88520 69110 | 288 520 | 2691 10 | Myotis daubentonii,Nyctalus leisleri |
| Aghnask ea Bridge Transect , Spot 1- 10 | N80600 70500 | 280 600 | 2705 00 | |
| Beaulieu Bridge Transect | N88168 66286 | 288 168 | 2662 86 | Myotis daubentonii, Unidentified bat |
| Broadbo yne Bridge Transect | N91671 2 | 291 600 | 2712 00 | Myotis daubentonii |
| Convent Road River Boyne Transect | N87000 67000 | 287 000 | 2670 00 | Myotis daubentonii, Pipistrellus pygmaeus |
| Donaghp atrick Bridge Transect | N81938 72326 | 281 938 | 2723 26 | Myotis daubentonii,Unidentified bat |
| Donaghp atrick Bridge Transect spot 1 | N81266 72190 | 281 266 | 2721 90 | Myotis daubentonii,Nyctalus leisleri,Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus |
| Donaghp atrick Bridge Transect spot 10 | N81938 72326 | 281 938 | 2723 26 | Myotis daubentonii,Unidentified bat,Nyctalus leisleri |
| Donaghp atrick Bridge Transect spot 2 | N81272 72642 | 281 272 | 2726 42 | Myotis daubentonii,Unidentified bat |
| Donaghp atrick | N81307 72699 | 281 307 | 2726 99 | Myotis daubentonii, Unidentified bat |

| 6 | Wildlife Surveys Ireland | | | |
|---|--------------------------------|------------|------------|--|
| Bridge Transect spot 3 | | | | |
| Donaghp atrick Bridge Transect spot 4 | N81489 72691 | 281 489 | 2726 91 | Unidentified bat,Myotis daubentonii |
| Donaghp atrick Bridge Transect spot 5 | N81489 72694 | 281 489 | 2726 94 | Myotis daubentonii,Unidentified bat |
| Donaghp atrick Bridge Transect spot 6 | N81574 72676 | 281 574 | 2726 76 | Unidentified bat, Myotis daubentonii |
| Donaghp atrick Bridge Transect spot 7 | N81709 72539 | 281 709 | 2725 39 | Myotis daubentonii,Unidentified bat |
| Donaghp atrick Bridge Transect spot 8 | N81782 72475 | 281 782 | 2724 75 | Unidentified bat, Myotis daubentonii |
| Donaghp atrick Bridge Transect spot 9 | N81897 72409 | 281 897 | 2724 09 | Myotis daubentonii,Unidentified bat |
| N74 (1) 2006- | N85334 67628 | 285 334 | 2676 28 | Pipistrellus pipistrellus (45kHz),Nyctalus leisleri,Pipistrellus pygmaeus,Pipistrellus spp. (45kHz/55kHz) |
| N74 (18) 2006- 2008 | N98177 66457 | 298 177 | 2664 57 | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Pipistrellus spp. (45kHz/55kHz),Nyctalus leisleri |
| N74 (19) 2006- 2008 | N93629 68402 | 293 629 | 2684 02 | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Pipistrellus spp. (45kHz/55kHz),Nyctalus leisleri |
| N74 (2) 2006- | N79046 67407 | 279 046 | 2674 07 | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri,Pipistrellus spp. (45kHz/55kHz),Unidentified bat |

| | netanu | | | |
|----------------------------------|-----------------|------------|------------|---|
| N74 (20) 2006- 2008 | N89547 65869 | 289 547 | 2658 69 | Pipistrellus pipistrellus (45kHz),Nyctalus leisleri,Pipistrellus pygmaeus |
| Rampart s 1 Transect 1 | N88169 68393 | 288 169 | 2683 93 | Myotis daubentonii,Unidentified bat |
| Rampart s 1 Transect 10 | N88772 68363 | 288 772 | 2683 63 | Myotis daubentonii |
| Rampart s 1 Transect 10 | N87400 67400 | 287 400 | 2674 00 | Myotis daubentonii,Nyctalus leisleri,Pipistrellus pygmaeus,Myotis natterreri,Myotis mystacinus,Pipistrellus pipistrellus (45kHz) |
| Rampart s 1 Transect 2 | N88132 68270 | 288 132 | 2682 70 | Myotis daubentonii,Myotis natterreri,Myotis mystacinus/brandtii |
| Rampart s 1 Transect 3 | N88082 68167 | 288 082 | 2681 67 | Myotis daubentonii,Unidentified bat,Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus |
| Rampart s 1 Transect 4 | N88037 68074 | 288 037 | 2680 74 | Myotis daubentonii,Unidentified bat |
| Rampart s 1 Transect 5 | N87970 68031 | 287 970 | 2680 31 | Unidentified bat, Myotis daubentonii |
| Rampart s 1 Transect 6 | N87831 67948 | 287 831 | 2679 48 | Unidentified bat, Myotis daubentonii, Pipistrellus pipistrellus (45kHz) |
| Rampart s 1 Transect 7 | N87790 67963 | 287 790 | 2679 63 | Myotis daubentonii,Nyctalus leisleri |
| Rampart s 1 Transect 8 | N87706 67941 | 287 706 | 2679 41 | Myotis daubentonii,Nyctalus leisleri,Pipistrellus pygmaeus |
| Rampart s 1 Transect 9 | N87495 67928 | 287 495 | 2679 28 | Unidentified bat,Myotis daubentonii,Nyctalus leisleri |

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|--|-----------------|------------|------------|---|
| Rampart s Transect 1 | N88168 66286 | 288 168 | 2662 86 | Myotis daubentonii,Pipistrellus pygmaeus,Pipistrellus pipistrellus (45kHz),Pipistrellus spp. (45kHz/55kHz),Nyctalus leisleri,Myotis spp.,Unidentified bat |
| Rampart s Transect 10 | N88530 69162 | 288 530 | 2691 62 | Myotis daubentonii,Pipistrellus pygmaeus,Nyctalus leisleri |
| Rampart s Transect 2 | N88259 68497 | 288 259 | 2684 97 | Pipistrellus pygmaeus,Pipistrellus pipistrellus (45kHz),Pipistrellus spp. (45kHz/55kHz),Nyctalus leisleri,Myotis spp. |
| Rampart s Transect 3 | N88289 68532 | 288 289 | 2685 32 | Myotis daubentonii,Pipistrellus pygmaeus,Pipistrellus pipistrellus (45kHz),Pipistrellus spp. (45kHz/55kHz),Nyctalus leisleri,Myotis spp. |
| Rampart s Transect 4 | N88366 68619 | 288 366 | 2686 19 | Unidentified bat,Pipistrellus pygmaeus,Pipistrellus spp. (45kHz/55kHz),Nyctalus leisleri,Myotis spp. |
| Rampart s Transect 5 | N88442 68699 | 288 442 | 2686 99 | Myotis daubentonii,Pipistrellus pygmaeus,Pipistrellus spp. (45kHz/55kHz),Myotis spp. |
| Rampart s Transect 6 | N88527 68797 | 288 527 | 2687 97 | Myotis daubentonii,Unidentified bat,Pipistrellus pygmaeus,Nyctalus leisleri,Myotis spp. |
| Rampart s Transect 7 | N88542 68904 | 288 542 | 2689 04 | Myotis daubentonii,Pipistrellus pygmaeus,Nyctalus leisleri,Myotis spp.,Pipistrellus pipistrellus (45kHz) |
| Rampart s Transect 8 | N88525 69018 | 288 525 | 2690 18 | Myotis daubentonii,Pipistrellus pygmaeus,Pipistrellus pipistrellus (45kHz),Pipistrellus spp. (45kHz/55kHz),Nyctalus leisleri,Myotis spp. |
| Rampart s Transect 9 | N88501 69110 | 288 501 | 2691 10 | Myotis daubentonii,Pipistrellus pygmaeus,Pipistrellus spp. (45kHz/55kHz),Myotis spp. |
| Rampart s, Foot Bridge Transect | N87447 67932 | 287 447 | 2679 32 | Myotis daubentonii |

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| | Ireland | | | | | | | |
|---|-----------------|--------------------|---------------------|--|---|--|--|--|
| Slane Bridge Transect | N96400 73610 | 296 400 | 2736 10 | Myotis daubentonii,Unidentified bat,Pipistrellus nathusii | | | | |
| Slane Transect B | N96473 7 | 296 400 | 2737 00 | Pipistrellus pipistrellus pygmaeus,Nyctalus le daubentonii,Myotis my | (45kHz),Pipistrellus isleri,Myotis ⁄stacinus,Myotis spp. | | | |
| The Rampart s (Navan) Transect | N87400 67400 | 287 400 | 2674 00 | Myotis daubentonii,Un | identified bat | | | |
| Ad-hoc ob | servations | Grid | Grid | Data | Spacios absorved | | | |
| Survey | referenc e | ref easti ng | ref north ing | Date | Species observed | | | |
| Ad Hoc Records collected during Monitorin g | N96400 73610 | 296 400 | 2736 10 | ######## | Pipistrellus nathusii | | | |
| Bat Conserv ation Ireland Bat Detector Worksho p | N96773 7 | 296 700 | 2737 00 | ####### | Myotis mystacinus,Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri | | | |
| Bat Eco Services | N88890 62431 | 288 890 | 2624 31 | ######## | Nyctalus leisleri,Pipistrellus pygmaeus,Pipistrellus pipistrellus (45kHz),Plecotus auritus,Myotis spp. | | | |
| Bat Eco Services | N95146 60525 | 295 146 | 2605 25 | ######## | Nyctalus leisleri,Pipistrellus pipistrellus (45kHz),Plecotus auritus | | | |
| Bat Eco Services | N88500 64400 | 288 500 | 2644 00 | 7/2/2020 | Nyctalus leisleri,Myotis daubentonii,Pipistrellu s pipistrellus (45kHz),Pipistrellus pygmaeus,Plecotus auritus | | | |

Wildlife Surveys

Ireland Bat Eco N89284 2700 ######## Nyctalus 289 Services 70044 284 44 leisleri, Pipistrellus pygmaeus N89967 2701 Pipistrellus pipistrellus Bat Eco 289 ######## (45kHz), Pipistrellus Services 70101 967 01 pygmaeus 2675 Pipistrellus pipistrellus N87524 ######## Bat Eco 287 Services 67559 524 59 (45kHz) 2675 Pipistrellus pipistrellus Bat Eco N87573 ######## 287 Services 67542 573 42 (45kHz) Pipistrellus pipistrellus 2674 Bat Eco N87667 287 ######## Services 67496 667 (45kHz) 96 N87524 2675 Pipistrellus pipistrellus Bat Eco ######## 287 Services 67559 524 59 (45kHz) Pipistrellus pipistrellus Bat Eco N87670 287 2674 ######## Services 67494 670 94 (45 kHz)2700 Nyctalus leisleri Bat Eco N89498 ######## 289 Services 70054 54 498 Nyctalus leisleri Bat Eco N89380 2700 ######## 289 Services 70038 380 38 Nyctalus leisleri Bat Eco N89210 2700 ######## 289 Services 70044 210 44 Nyctalus leisleri Bat Eco N88980 2695 ######## 288 Services 69519 980 19 Bat Eco N88951 2693 ######## Nyctalus leisleri 288 Services 69395 951 95 2688 ######## Nyctalus leisleri Bat Eco N88571 288 Services 68873 571 73 Bat Eco N87373 287 2678 ######## Nyctalus leisleri Services 67861 373 61 Nyctalus leisleri Bat Eco N87373 2678 ######## 287 Services 67866 373 66 2683 Myotis natterreri Bat Eco N88187 288 ######## Services 68390 187 90 2700 Pipistrellus pygmaeus Bat Eco N89179 289 ######## 70036 179 Services 36 2699 Pipistrellus pygmaeus Bat Eco N89077 289 ######## Services 69962 077 62 Pipistrellus pygmaeus Bat Eco N89023 289 2698 ######## Services 69832 023 32 2697 Pipistrellus pygmaeus Bat Eco N88998 288 ######## Services 69739 998 39 Pipistrellus pygmaeus Bat Eco N88994 288 2696 ######## Services 69681 994 81 2695 ######## Pipistrellus pygmaeus Bat Eco N88984 288 Services 69585 984 85

Wildlife Survevs





| - Tina Aughnev | | | | | |
|-------------------------------------|-----------------|------------|------------|----------|---|
| Bat Surveys - Tina Aughney | N82000 68000 | 282 000 | 2680 00 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri,Plecotus auritus |
| Bat Surveys - Tina Aughney | N82626 67965 | 282 626 | 2679 65 | ####### | Unidentified bat,Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri,Myotis spp.,Myotis daubentonii,Myotis natterreri |
| Bat Surveys - Tina Aughney | N97394 75700 | 297 394 | 2757 00 | ######## | Pipistrellus pygmaeus |
| Bat Surveys - Tina Aughney | N96369 73877 | 296 369 | 2738 77 | ######## | Pipistrellus spp. (45kHz/55kHz) |
| Bat Surveys - Tina Aughney | N96418 74643 | 296 418 | 2746 43 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus |
| Bat Surveys - Tina Aughney | N96769 74855 | 296 769 | 2748 55 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus |
| Bat Surveys - Tina Aughney | N97395 75679 | 297 395 | 2756 79 | ######## | Pipistrellus pipistrellus (45kHz),Myotis spp. |
| Bat Surveys - Tina Aughney | N98833 75936 | 298 833 | 2759 36 | ######## | Pipistrellus pygmaeus |
| Bat Surveys - Tina Aughney | N97280 74055 | 297 280 | 2740 55 | ######## | Pipistrellus pygmaeus |
| Bat Surveys | N96501 73198 | 296 501 | 2731 98 | ######## | Pipistrellus pygmaeus,Pipistrellus spp. (45kHz/55kHz) |



| - Tina | | | | | |
|---------|--------|------------|------|----------------|-----------------------------------|
| Aughney | N07467 | 207 | 2675 | ######## | Muotio |
| Surveys | 5 | 400 | 2075 | ########### | daubentonii Pipistrellu |
| - Tina | Ũ | 100 | 00 | | s pygmaeus, Plecotus |
| Aughney | | | | | auritus,Myotis |
| | | | | | natterreri, Pipistrellus |
| | | | | | pipistrellus (45kHz) |
| Bat | N82830 | 282 | 2682 | 6/6/2013 | Nyctalus |
| Surveys | 68240 | 830 | 40 | | leisieri, Piecotus |
| | | | | | aunius, Pipistrenius |
| Auginey | | | | | spp Pipistrellus |
| | | | | | pipistrellus (45kHz) |
| Bat | N87466 | 287 | 2668 | ######## | Pipistrellus pipistrellus |
| Surveys | 8 | 400 | 00 | | (45kHz), Pipistrellus |
| - Tina | | | | | pygmaeus,Myotis |
| Aughney | | | | | spp.,Myotis |
| | | | | | natterreri, Nyctalus |
| | | | | | auritus |
| Bat | N88890 | 288 | 2624 | ####### | Pipistrellus pipistrellus |
| Surveys | 62431 | 890 | 31 | | (45kHz),Plecotus |
| - Tina | | | | | auritus, Pipistrellus |
| Aughney | | | | | pygmaeus,Nyctalus |
| Dut | NICOCO | 000 | 0004 | | leisleri,Myotis spp. |
| Bat | N88883 | 288 | 2624 | ######### | Nyctalus Joiclori Dipictrolluc |
| - Tina | 02414 | 005 | 14 | | nyamaeus Myotis |
| Aughney | | | | | sppPipistrellus |
| , | | | | | pipistrellus (45kHz) |
| Bat | N88841 | 288 | 2623 | ####### | Nyctalus |
| Surveys | 62355 | 841 | 55 | | leisleri,Pipistrellus |
| - Tina | | | | | pygmaeus,Myotis |
| Aughney | | | | | spp.,Pipistrellus |
| | | | | | pipistrelius (45kHz) Plecotus |
| | | | | | auritus |
| Bat | N88915 | 288 | 2625 | ######## | Nyctalus |
| Surveys | 62512 | 915 | 12 | | leisleri,Pipistrellus |
| - Tina | | | | | pygmaeus, Pipistrellus |
| Aughney | | | | | pipistrellus |
| Rat | N05146 | 205 | 2605 | ####### | (45KHZ),IVIYOTIS SPP. |
| Survevs | 60525 | 290 146 | 2005 | ########## | (45kHz) Nyctalus |
| - Tina | 00020 | | 20 | | leisleri.Plecotus |
| Aughney | | | | | auritus |

| G | Wildlife Surveys Ireland | | | | |
|-------------------------------------|--------------------------------|------------|------------|----------|--|
| Bat Surveys - Tina Aughney | N81555 75803 | 281 555 | 2758 03 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Plecotus auritus,Nyctalus leisleri |
| Bat Surveys - Tina Aughney | N81436 73036 | 281 436 | 2730 36 | ######## | Pipistrellus pygmaeus,Pipistrellus pipistrellus (45kHz),Nyctalus leisleri |
| Bat Surveys - Tina Aughney | N80532 70308 | 280 532 | 2703 08 | ######## | Pipistrellus pipistrellus (45kHz) |
| Bat Surveys - Tina Aughney | N81520 68917 | 281 520 | 2689 17 | ######## | Pipistrellus pygmaeus |
| Bat Surveys - Tina Aughney | N81737 67822 | 281 737 | 2678 22 | ######## | Pipistrellus pygmaeus,Pipistrellus pipistrellus (45kHz) |
| Bat Surveys - Tina Aughney | N81872 67094 | 281 872 | 2670 94 | ######## | Pipistrellus pygmaeus,Pipistrellus pipistrellus (45kHz) |
| Bat Surveys - Tina Aughney | N81503 64284 | 281 503 | 2642 84 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Myotis spp. |
| Bat Surveys - Tina Aughney | N81849 62622 | 281 849 | 2626 22 | ######## | Pipistrellus pygmaeus,Pipistrellus pipistrellus (45kHz) |
| Bat Surveys - Tina Aughney | N84106 60791 | 284 106 | 2607 91 | ######## | Pipistrellus pygmaeus,Pipistrellus pipistrellus (45kHz) |
| Bat Surveys - Tina Aughney | N83954 60269 | 283 954 | 2602 69 | ######## | Myotis daubentonii,Pipistrellu s pygmaeus |
| BATLAS 2010 | N96376 73557 | 296 376 | 2735 57 | ######## | Pipistrellus pygmaeus,Pipistrellus spp. (45kHz/55kHz),Nyctal |



| | | | | | us leisleri,Myotis |
|--------|--------|-----|------|----------|---------------------------|
| | | | | | daubentonii |
| BATLAS | N97995 | 297 | 2768 | ######## | Myotis |
| 2010 | 76806 | 995 | 06 | | spp.,Unidentified bat |
| BATLAS | N82776 | 282 | 2768 | 9/1/2009 | Pipistrellus pipistrellus |
| 2010 | 8 | 700 | 00 | | (45kHz),Nyctalus |
| | | | | | leisleri, Myotis spp. |
| BATLAS | N81972 | 281 | 2724 | 9/1/2009 | Pipistrellus pipistrellus |
| 2010 | 4 | 900 | 00 | | (45kHz),Myotis |
| | | | | | daubentonii |
| BATLAS | N82476 | 282 | 2760 | 9/1/2009 | Pipistrellus pipistrellus |
| 2010 | 0 | 400 | 00 | | (45kHz).Pipistrellus |
| | _ | | | | spp. (45kHz/55kHz) |
| BATLAS | N81432 | 281 | 2691 | ######## | Pipistrellus pipistrellus |
| 2020 | 69123 | 432 | 23 | | (45kHz).Pipistrellus |
| | | _ | _ | | pygmaeus.Nyctalus |
| | | | | | leisleri.Plecotus |
| | | | | | auritus |
| BATLAS | N95689 | 295 | 2594 | ######## | Pipistrellus pipistrellus |
| 2020 | 59410 | 689 | 10 | | (45kHz).Pipistrellus |
| | | | | | pygmaeus.Nyctalus |
| | | | | | leisleri |
| BATLAS | N95759 | 295 | 2594 | ######## | Pipistrellus pipistrellus |
| 2020 | 59431 | 759 | 31 | | (45kHz), Pipistrellus |
| | | | | | pygmaeus, Nyctalus |
| | | | | | leisleri |
| BATLAS | N86005 | 286 | 2597 | ####### | Pipistrellus |
| 2020 | 59798 | 005 | 98 | | pygmaeus,Myotis |
| | | | | | daubentonii |
| BATLAS | N92022 | 292 | 2598 | ####### | |
| 2020 | 59857 | 022 | 57 | | |
| BATLAS | N92108 | 292 | 2599 | ####### | Pipistrellus pipistrellus |
| 2020 | 59987 | 108 | 87 | | (45kHz),Pipistrellus |
| | | | | | pygmaeus |
| BATLAS | N83959 | 283 | 2602 | ######## | Pipistrellus pipistrellus |
| 2020 | 60274 | 959 | 74 | | (45kHz) |
| BATLAS | N83957 | 283 | 2602 | ####### | Pipistrellus |
| 2020 | 60288 | 957 | 88 | | pygmaeus,Myotis |
| | | | | | daubentonii |
| BATLAS | N84253 | 284 | 2612 | ######## | Pipistrellus pipistrellus |
| 2020 | 61235 | 253 | 35 | | (45kHz),Pipistrellus |
| | | | | | pygmaeus,Nyctalus |
| | | | | | leisleri |
| BATLAS | N85905 | 285 | 2613 | ######## | Pipistrellus pipistrellus |
| 2020 | 61333 | 905 | 33 | | (45kHz),Pipistrellus |
| | | | | | pygmaeus |

| S | Wildlife Surveys Ireland | | | | |
|----------------|--------------------------------|------------|------------|----------|---|
| BATLAS 2020 | N89311 62613 | 289 311 | 2626 13 | ####### | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri,Myotis daubentonii,Plecotus auritus |
| BATLAS 2020 | N81163 62643 | 281 163 | 2626 43 | ######## | Pipistrellus pygmaeus |
| BATLAS 2020 | N81188 62678 | 281 188 | 2626 78 | ######## | Pipistrellus pipistrellus (45kHz),Nyctalus leisleri |
| BATLAS 2020 | N82683 65209 | 282 683 | 2652 09 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus |
| BATLAS 2020 | N98183 66356 | 298 183 | 2663 56 | 8/9/2018 | Nyctalus leisleri,Plecotus auritus,Pipistrellus spp. (45kHz/55kHz) |
| BATLAS 2020 | N81869 67106 | 281 869 | 2671 06 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus |
| BATLAS 2020 | N87432 67959 | 287 432 | 2679 59 | 8/3/2015 | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri,Myotis daubentonii,Plecotus auritus,Myotis natterreri |
| BATLAS 2020 | N82813 68133 | 282 813 | 2681 33 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus |
| BATLAS 2020 | N82825 68329 | 282 825 | 2683 29 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri,Plecotus auritus,Myotis natterreri |
| BATLAS 2020 | N88134 68440 | 288 134 | 2684 40 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri,Myotis daubentonii |
| BATLAS 2020 | N84455 69371 | 284 455 | 2693 71 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri,Myotis daubentonii |

| | Ireland | | | | |
|-------------------------------------|-----------------|------------|------------|----------|--|
| BATLAS 2020 | N91813 71317 | 291 813 | 2713 17 | ####### | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri,Myotis daubentonii,Pipistrellu s spp. (45kHz/55kHz) |
| BATLAS 2020 | N81874 72339 | 281 874 | 2723 39 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri,Myotis daubentonii |
| BATLAS 2020 | N97713 72826 | 297 713 | 2728 26 | ######## | |
| BATLAS 2020 | N96376 73557 | 296 376 | 2735 57 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus spp. (45kHz/55kHz) |
| BATLAS 2020 | N96150 73823 | 296 150 | 2738 23 | ######## | Pipistrellus pygmaeus,Myotis daubentonii |
| BATLAS 2020 | N79296 74007 | 279 296 | 2740 07 | 5/1/2018 | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri,Myotis daubentonii |
| BATLAS 2020 | N82378 75927 | 282 378 | 2759 27 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus,Nyctalus leisleri |
| BATLAS 2020 | N97995 76806 | 297 995 | 2768 06 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus |
| BATLAS 2020 | N82748 77115 | 282 748 | 2771 15 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus pygmaeus |
| Batline House Visits | N89665 9 | 289 600 | 2659 00 | ######## | Myotis daubentonii |
| Dublin Bat Group surveys | N96074 0 | 296 000 | 2740 00 | ######## | Myotis daubentonii |
| EIS surveys - Brian Keeley | N88434 65540 | 288 434 | 2655 40 | ######## | |
| EIS surveys - | N89339 66802 | 289 339 | 2668 02 | ######## | Pipistrellus pipistrellus (45kHz),Pipistrellus |

K Wildlife Surveys



| Brian | | | | | pygmaeus,Nyctalus |
|-----------|--------|-----|------|-----------|---------------------------|
| Keeley | | | | | leisleri |
| EIS | N89499 | 289 | 2669 | ######## | |
| surveys - | 66980 | 499 | 80 | | |
| Brian | | | | | |
| Keeley | | | | | |
| EIS | N89499 | 289 | 2669 | ######## | |
| surveys - | 66980 | 499 | 80 | | |
| Brian | | | | | |
| Keeley | | | | | |
| EIS | N94913 | 294 | 2743 | ######### | Myotis |
| surveys - | 74391 | 913 | 91 | | daubentonii,Myotis |
| Brian | | | | | natterreri, Plecotus |
| Keeley | | | | | auritus,Pipistrellus |
| | | | | | pygmaeus,Pipistrellus |
| | | | | | pipistrellus (45kHz) |
| EIS | N91762 | 291 | 2731 | 7/5/2023 | Pipistrellus pipistrellus |
| surveys - | 73120 | 762 | 20 | | (45kHz), Pipistrellus |
| Brian | | | | | pygmaeus, Plecotus |
| Keeley | | | | | auritus,Nyctalus |
| | | | | | leisleri |
| National | N82868 | 282 | 2683 | ######### | Plecotus auritus |
| Biodivers | 3 | 800 | 00 | | |
| ity Data | | | | | |
| Centre | | | | | |
| Bat | | | | | |
| Records | | | | | |
| National | N96573 | 296 | 2733 | ######## | Pipistrellus spp. |
| Biodivers | 3 | 500 | 00 | | (45kHz/55kHz) |
| ity Data | | | | | |
| Centre | | | | | |
| Bat | | | | | |
| Records | | | | | |
| Niamh | N95374 | 295 | 2742 | ######## | Nyctalus leisleri |
| Roche | 2 | 300 | 00 | | |
| Pilot | N97031 | 297 | 2758 | ######## | Pipistrellus |
| Woodlan | 75866 | 031 | 66 | | pygmaeus,Pipistrellus |
| d | | | | | pipistrellus |
| Monitorin | | | | | (45kHz),Nyctalus |
| g | | | | | leisleri,Myotis |
| Scheme | | | | | mystacinus |
| 2016- | | | | | |
| 2017 | | | | | |
| Pilot | N97031 | 297 | 2758 | ######## | Myotis |
| Woodlan | 75866 | 031 | 66 | | mystacinus,Nyctalus |
| d | | | | | leisleri, Pipistrellus |
| Monitorin | | | | | pipistrellus |

| | Wildlife Surveys reland | | |
|----------------------|-------------------------------|--|----------------------------------|
| g Scheme 2016- | | | (45kHz),Pipistrellus pygmaeus |
| 2017 | | | |

Appendix V

Sound files from Song meter mini with Kaleidoscope sound analysis placed in the annex to the barn

| | | | 1 | | | |
|------|------------------------------|----------------------------------|------------|----|----|----------|
| 2032 | SMU03485_20230906_212106.wav | SMU03485_20230906_212106_000.wav | PIPPIP | 30 | 30 | 1.000000 |
| 2033 | SMU03485_20230907_043526.wav | SMU03485_20230907_043526_000.wav | PIPPIP | 30 | 29 | 0.967000 |
| 2034 | MINIB_20231218_184233.wav | MINIB_20231218_184233_000.wav | PIPPIP | 28 | 28 | 1.000000 |
| 2035 | SMU03485_20230906_215346.wav | SMU03485_20230906_215346_000.wav | PIPPIP | 27 | 27 | 1.000000 |
| 2036 | SMU03485_20230906_234655.wav | SMU03485_20230906_234655_000.wav | PIPPIP | 27 | 27 | 1.000000 |
| 2037 | SMU03485_20230907_023602.wav | SMU03485_20230907_023602_000.wav | PIPPIP | 27 | 27 | 1.000000 |
| 2038 | SMU03485_20230907_054651.wav | SMU03485_20230907_054651_000.wav | PIPPIP | 46 | 27 | 0.587000 |
| 2039 | MINIB_20231215_202626.wav | MINIB_20231215_202626_000.wav | PIPPIP | 27 | 26 | 0.963000 |
| 2040 | SMU03485_20230906_225712.wav | SMU03485_20230906_225712_000.wav | PIPPIP | 27 | 26 | 0.963000 |
| 2041 | SMU03485_20230907_033831.wav | SMU03485_20230907_033831_000.wav | PIPPIP | 27 | 26 | 0.963000 |
| 2042 | SMU03485_20230906_204218.wav | SMU03485_20230906_204218_000.wav | PIPPIP | 25 | 25 | 1.000000 |
| 2043 | SMU03485_20230906_223941.wav | SMU03485_20230906_223941_000.wav | PIPPIP | 25 | 25 | 1.000000 |
| 2044 | MINIB_20231218_183502.wav | MINIB_20231218_183502_000.wav | PIPPIP | 26 | 25 | 0.962000 |
| 2045 | SMU03485_20230906_203125.wav | SMU03485_20230906_203125_000.wav | PIPPIP | 38 | 25 | 0.658000 |
| 2046 | MINIB_20231218_041235.wav | MINIB_20231218_041235_000.wav | PIPPIP | 24 | 24 | 1.000000 |
| 2047 | MINIB_20231218_050535.wav | MINIB_20231218_050535_000.wav | PIPPIP | 25 | 24 | 0.960000 |
| 2048 | MINIB_20231218_050431.wav | MINIB_20231218_050431_000.wav | PIPPIP | 20 | 20 | 1.000000 |
| 2049 | SMU03485_20230906_204213.wav | SMU03485_20230906_204213_000.wav | PIPPIP | 19 | 19 | 1.000000 |
| 2050 | SMU03485_20230907_030410.wav | SMU03485_20230907_030410_000.wav | PIPPIP | 19 | 19 | 1.000000 |
| 2051 | SMU03485_20230907_060155.wav | SMU03485_20230907_060155_000.wav | PIPPIP | 20 | 19 | 0.950000 |
| 2052 | MINIB_20231218_220746.wav | MINIB_20231218_220746_000.wav | PIPPIP | 19 | 18 | 0.947000 |
| 2053 | MINIB_20231217_192028.wav | MINIB_20231217_192028_000.wav | PIPPIP | 23 | 18 | 0.783000 |
| 2054 | SMU03485_20230906_211526.wav | SMU03485_20230906_211526_000.wav | PIPPIP | 17 | 17 | 1.000000 |
| 2055 | SMU03485_20230906_212411.wav | SMU03485_20230906_212411_000.wav | PIPPIP | 18 | 17 | 0.944000 |
| 2056 | SMU03485_20230907_010727.wav | SMU03485_20230907_010727_000.wav | PIPPIP | 21 | 17 | 0.810000 |
| 2057 | SMU03485_20230907_022702.wav | SMU03485_20230907_022702_000.wav | PIPPIP | 17 | 16 | 0.941000 |
| 2058 | SMU03485_20230906_203110.wav | SMU03485_20230906_203110_000.wav | PIPPIP | 18 | 16 | 0.889000 |
| 2059 | MINIB_20231218_195421.wav | MINIB_20231218_195421_000.wav | PIPPIP | 14 | 14 | 1.000000 |
| 2060 | MINIB_20231218_195358.wav | MINIB_20231218_195358_000.wav | PIPPIP | 14 | 14 | 1.000000 |
| 2061 | MINIB_20231217_191950.wav | MINIB_20231217_191950_000.wav | PIPPIP | 17 | 14 | 0.824000 |
| 2062 | SMU03485_20230906_212352.wav | SMU03485_20230906_212352_000.wav | PIPPIP | 13 | 13 | 1.000000 |
| 2063 | SMU03485_20230907_010735.wav | SMU03485_20230907_010735_000.wav | PIPPIP | 13 | 13 | 1.000000 |
| 2064 | SMU03485_20230907_014212.wav | SMU03485_20230907_014212_000.wav | PIPPIP | 13 | 13 | 1.000000 |
| 2065 | SMU03485_20230906_232133.wav | SMU03485_20230906_232133_000.wav | PIPPIP | 24 | 13 | 0.542000 |
| 2066 | MINIB_20231215_202618.wav | MINIB_20231215_202618_000.wav | PIPPIP | 12 | 12 | 1.000000 |
| 2067 | SMU03485_20230906_222609.wav | SMU03485_20230906_222609_000.wav | PIPPIP | 12 | 12 | 1.000000 |
| 2068 | SMU03485_20230906_232332.wav | SMU03485_20230906_232332_000.wav | PIPPIP | 12 | 12 | 1.000000 |
| 2069 | MINIB_20231218_183517.wav | MINIB_20231218_183517_000.wav | PIPPIP | 18 | 11 | 0.611000 |
| 2070 | MINIB_20231224_221024.wav | MINIB_20231224_221024_000.wav | PIPPIP | 10 | 10 | 1.000000 |
| | | | | | | |

| | FOLDER | IN FILE | OUT FILE FS | OUT FILE ZC | AUTO ID | PULSES | MATCHING | MATCH RATIO | MANU |
|------|--------|------------------------------|----------------------------------|-------------|---------|--------|----------|-------------|------|
| 2090 | | WIINID_20251217_172025.Wav | WIINID_20251217_172025_000.Wdv | | PIPPTO | 12 | 12 | 1.000000 | |
| 2891 | | MINIB_20231217_174916.wav | MINIB_20231217_174916_000.wav | | PIPPYG | 12 | 12 | 1.000000 | |
| 2892 | | MINIB_20231218_082809.wav | MINIB_20231218_082809_000.wav | | PIPPYG | 12 | 12 | 1.000000 | |
| 2893 | | MINIB_20231218_090643.wav | MINIB_20231218_090643_000.wav | | PIPPYG | 12 | 12 | 1.000000 | |
| 2894 | | MINIB_20231218_090708.wav | MINIB_20231218_090708_000.wav | | PIPPYG | 12 | 12 | 1.000000 | |
| 2895 | | MINIB_20231218_173646.wav | MINIB_20231218_173646_000.wav | | PIPPYG | 12 | 12 | 1.000000 | |
| 2896 | | MINIB_20231218_173808.wav | MINIB_20231218_173808_000.wav | | PIPPYG | 12 | 12 | 1.000000 | |
| 2897 | | MINIB_20231218_173826.wav | MINIB_20231218_173826_000.wav | | PIPPYG | 12 | 12 | 1.000000 | |
| 2898 | | MINIB_20231218_192356.wav | MINIB_20231218_192356_000.wav | | PIPPYG | 12 | 12 | 1.000000 | |
| 2899 | | MINIB_20231218_192246.wav | MINIB_20231218_192246_000.wav | | PIPPYG | 12 | 12 | 1.000000 | |
| 2900 | | MINIB_20231218_192632.wav | MINIB_20231218_192632_000.wav | | PIPPYG | 12 | 12 | 1.000000 | |
| 2901 | | MINIB_20231216_175428.wav | MINIB_20231216_175428_000.wav | | PIPPYG | 11 | 11 | 1.000000 | |
| 2902 | | MINIB_20231216_181150.wav | MINIB_20231216_181150_000.wav | | PIPPYG | 11 | 11 | 1.000000 | |
| 2903 | | MINIB_20231217_173556.wav | MINIB_20231217_173556_000.wav | | PIPPYG | 11 | 11 | 1.000000 | |
| 2904 | | MINIB_20231217_175158.wav | MINIB_20231217_175158_000.wav | | PIPPYG | 11 | 11 | 1.000000 | |
| 2905 | | MINIB_20231218_023637.wav | MINIB_20231218_023637_000.wav | | PIPPYG | 11 | 11 | 1.000000 | |
| 2906 | | MINIB_20231218_083629.wav | MINIB_20231218_083629_000.wav | | PIPPYG | 11 | 11 | 1.000000 | |
| 2907 | | MINIB_20231218_091653.wav | MINIB_20231218_091653_000.wav | | PIPPYG | 11 | 11 | 1.000000 | |
| 2908 | | MINIB_20231218_173505.wav | MINIB_20231218_173505_000.wav | | PIPPYG | 11 | 11 | 1.000000 | |
| 2909 | | MINIB_20231218_173929.wav | MINIB_20231218_173929_000.wav | | PIPPYG | 11 | 11 | 1.000000 | |
| 2910 | | MINIB_20231218_190231.wav | MINIB_20231218_190231_000.wav | | PIPPYG | 11 | 11 | 1.000000 | |
| 2911 | | MINIB_20231218_192448.wav | MINIB_20231218_192448_000.wav | | PIPPYG | 11 | 11 | 1.000000 | |
| 2912 | | MINIB_20231218_193446.wav | MINIB_20231218_193446_000.wav | | PIPPYG | 11 | 11 | 1.000000 | |
| 2913 | | MINIB_20231218_193744.wav | MINIB_20231218_193744_000.wav | | PIPPYG | 11 | 11 | 1.000000 | |
| 2914 | | MINIB_20231218_204446.wav | MINIB_20231218_204446_000.wav | | PIPPYG | 11 | 11 | 1.000000 | |
| 2915 | | MINIB_20231223_173421.wav | MINIB_20231223_173421_000.wav | | PIPPYG | 11 | 11 | 1.000000 | |
| 2916 | | MINIB_20231223_180429.wav | MINIB_20231223_180429_000.wav | | PIPPYG | 11 | 11 | 1.000000 | |
| 2917 | | MINIB_20231216_200051.wav | MINIB_20231216_200051_000.wav | | PIPPYG | 12 | 11 | 0.917000 | |
| 2918 | | MINIB_20231218_201115.wav | MINIB_20231218_201115_000.wav | | PIPPYG | 12 | 11 | 0.917000 | |
| 2919 | | MINIB_20231218_201525.wav | MINIB_20231218_201525_000.wav | | PIPPYG | 12 | 11 | 0.917000 | |
| 2920 | | SMU03485_20230906_222647.wav | SMU03485_20230906_222647_000.wav | | PIPPYG | 12 | 11 | 0.917000 | |
| 2921 | | MINIB_20231216_174429.wav | MINIB_20231216_174429_000.wav | | PIPPYG | 10 | 10 | 1.000000 | |
| 2922 | | MINIB_20231216_174701.wav | MINIB_20231216_174701_000.wav | | PIPPYG | 10 | 10 | 1.000000 | |
| 2923 | | MINIB_20231216_181600.wav | MINIB_20231216_181600_000.wav | | PIPPYG | 10 | 10 | 1.000000 | |
| 2924 | | MINIB_20231217_174037.wav | MINIB_20231217_174037_000.wav | | PIPPYG | 10 | 10 | 1.000000 | |
| 2925 | | MINIB_20231217_174420.wav | MINIB_20231217_174420_000.wav | | PIPPYG | 10 | 10 | 1.000000 | |
| 2926 | | MINIB_20231217_174342.wav | MINIB_20231217_174342_000.wav | | PIPPYG | 10 | 10 | 1.000000 | |
| 2927 | | MINIB_20231218_082827.wav | MINIB_20231218_082827_000.wav | | PIPPYG | 10 | 10 | 1.000000 | |
| 2928 | | MINIB_20231218_173126.wav | MINIB_20231218_173126_000.wav | | PIPPYG | 10 | 10 | 1.000000 | |
| 2929 | | MINIB_20231218_173405.wav | MINIB_20231218_173405_000.wav | | PIPPYG | 10 | 10 | 1.000000 | |
| 2930 | | MINIB 20231218 195750 way | MINIB 20231218 195750 000.way | | PIPPYG | 10 | 10 | 1,000000 | |

Appendix VI



Anabat walkabout recordings July 2024 handheld by Donna Mullen

| FC | OLDER | IN FILE | OUT FILE FS | OUT FILE | zc | AUTO ID | PULSES | MATCHIN | IG | MATCH RATIO | MANUAL |
|---------------------------------|-------|--|---|----------|----------------------------------|---------|--------|---------|----|-------------|------------|
| 1 | | 2024-07-09 23-42-03.wav | 2024-07-09 23-42-03_00000_000.wav | | NYC | LEI | 3 | 1 | 26 | 0.83 | 3000 |
| 2 | | 2024-07-09 23-56-10.wav | 2024-07-09 23-56-10_00000_000.wav | | NYC | LEI | | 9 | 8 | 0.88 | 3000 |
| 3 | | 2024-07-10 00-05-38.wav | 2024-07-10 00-05-38_00000_000.wav | | Noll |) | | 2 | 0 | 0.00 | J000 Noise |
| 4 | | 2024-07-10 00-03-44.wav | 2024-07-10 00-03-44_00000_000.wav | | Noll |) | | 4 | 0 | 0.00 | 000 Noise |
| 5 | | 2024-07-10 00-04-14.wav | 2024-07-10 00-04-14_00000_000.wav | | Noll |) | | 4 | 0 | 0.00 | J000 Noise |
| 6 | | 2024-07-10 00-05-32.wav | 2024-07-10 00-05-32_00000_000.wav | | Noll |) | | 2 | 0 | 0.00 | 000 Noise |
| 7 | | 2024-07-10 00-08-44.wav | 2024-07-10 00-08-44_00000_000.wav | | Noll |) | | 4 | 0 | 0.00 | J000 Noise |
| 8 | | 2024-07-09 23-41-28.wav | 2024-07-09 23-41-28_00000_000.wav | | Nois | e | | | | | Noise |
| 9 | | 2024-07-09 23-40-37.wav | 2024-07-09 23-40-37 00000 000.wav | | Noi | e | | | | | |
| 301 302 303 304 305 | | 2024-07-10 05-37-46.wav 2024-07-10 05-46-45.wav 2024-07-10 05-46-45.wav 2024-07-10 05-49-32.wav 2024-07-10 05-49-32.wav 2024-07-02 33-55-40 wav | 2024-07-10 05-34 - 00000_000.wav 2024-07-10 05-44 - 0000_000_000.wav 2024-07-10 05-48 - 02_0000_000.wav 2024-07-10 05-49 - 32_0000_000.wav 2024-07-10 05-49 - 32_0000_000.wav | | Noise Noise Noise Noise | | 11 | | | 0.727000 PI | |
| 306 | | 2024-07-09 23-55-51 way | 2024-07-09 23-55-51 00000 000.way | | PIPPIP | | 4 | 4 | | 1.000000 PI | pip |
| 307 | | 2024-07-10 00-04-29.way | 2024-07-10 00-04-29 00000 000.way | | PIPPYG | | 30 | 23 | | 0.767000 PI | PYG |
| 308 | | 2024-07-10 00-02-07.wav | 2024-07-10 00-02-07_00000_000.wav | | PIPPYG | | 20 | 20 | | 1.000000 PI | PYG |
| 309 | | 2024-07-10 00-07-28.wav | 2024-07-10 00-07-28_00000_000.wav | | PIPPYG | | 20 | 15 | | 0.750000 PI | /PYG |
| 310 | | 2024-07-10 00-03-59.wav | 2024-07-10 00-03-59_00000_000.wav | | PIPPYG | | 15 | 14 | | 0.933000 PI | /PYG |
| 311 | | 2024-07-10 00-07-03.wav | 2024-07-10 00-07-03_00000_000.wav | | PIPPYG | | 11 | 11 | | 1.000000 PI | PYG |
| 312 | | 2024-07-10 00-03-22.wav | 2024-07-10 00-03-22_00000_000.wav | | PIPPYG | | 10 | 10 | | 1.000000 PI | PYG |
| 313 | | 2024-07-10 00-08-18.wav | 2024-07-10 00-08-18_00000_000.wav | | PIPPYG | | 8 | 8 | | 1.000000 PI | PYG |
| 314 | | 2024-07-10 00-06-28.wav | 2024-07-10 00-06-28_00000_000.wav | | PIPPYG | | 7 | 7 | | 1.000000 PI | PYG |
| 315 | | 2024-07-09 23-42-47.wav | 2024-07-09 23-42-47_00000_000.wav | | PIPPYG | | 4 | 4 | | 1.000000 PI | PYG |
| 316 | | 2024-07-10 00-05-54.wav | 2024-07-10 00-05-54_00000_000.wav | | PIPPYG | | 5 | 4 | | 0.800000 Ni | ise |
| 317 | | 2024-07-09 23-57-44.wav | 2024-07-09 23-57-44_00000_000.wav | | PIPPYG | | 3 | 3 | | 1.000000 N | ise |
| 318 | | 2024-07-10 00-03-34.wav | 2024-07-10 00-03-34_00000_000.wav | | PIPPYG | | 2 | | | 1.000000 N | |

Appendix VII

Song meter mini recordings 2024 – July

| Eila Halo | | | | | | | | | |
|-----------|--------|-------------------------------|-----------------------------------|--------------|--------|---------|----------|-------------|---------|
| The Thep | FOLDER | IN FUE | OUT FULL IS | 0017 0017 70 | | DILLETE | MATCHING | MATCH BATIO | |
| | FOLDER | INFILE | OUTFILEFS | OUT FILE ZC | AUTOID | PULSES | MATCHING | MATCH KATIO | MANUAL |
| 1 | Data | NEWMINI01_20240709_223136.wav | NEWMINI01_20240709_223136_000.wav | | NYCLEI | 14 | 14 | 1.000000 | |
| 2 | Data | NEWMINI01_20240709_225517.wav | NEWMINI01_20240709_225517_000.wav | | NYCLEI | 13 | 13 | 1.000000 | |
| 3 | Data | NEWMINI01_20240709_222057.wav | NEWMINI01_20240709_222057_000.wav | | NYCLEI | 13 | 12 | 0.923000 | |
| 4 | Data | NEWMINI01_20240709_230338.wav | NEWMINI01_20240709_230338_000.wav | | NYCLEI | 10 | 10 | 1.000000 | |
| 5 | Data | NEWMINI01_20240709_222441.wav | NEWMINI01_20240709_222441_000.wav | | NYCLEI | 8 | 8 | 1.000000 | |
| 6 | Data | NEWMINI01_20240710_041002.wav | NEWMINI01_20240710_041002_000.wav | | NYCLEI | 6 | 6 | 1.000000 | |
| 7 | Data | NEWMINI01_20240709_230846.wav | NEWMINI01_20240709_230846_000.wav | | NYCLEI | 5 | 5 | 1.000000 | |
| 8 | Data | NEWMINI01_20240709_224118.wav | NEWMINI01_20240709_224118_000.wav | | NYCLEI | 8 | 5 | 0.625000 | |
| 9 | Data | NEWMINI01_20240710_004059.wav | NEWMINI01_20240710_004059_000.wav | | NYCLEI | 4 | 4 | 1.000000 | |
| 10 | Data | NEWMINI01_20240710_032330.wav | NEWMINI01_20240710_032330_000.wav | | NYCLEI | 4 | 4 | 1.000000 | |
| 11 | Data | NEWMINI01_20240709_222431.wav | NEWMINI01_20240709_222431_000.wav | | NYCLEI | 2 | 2 | 1.000000 | |
| 12 | Data | NEWMINI01_20240710_033029.wav | NEWMINI01_20240710_033029_000.wav | | NYCLEI | 2 | 2 | 1.000000 | |
| 13 | Data | NEWMINI01_20240710_042345.wav | NEWMINI01_20240710_042345_000.wav | | NYCLEI | 2 | 2 | 1.000000 | |
| 14 | Data | NEWMINI01_20240709_223632.wav | NEWMINI01_20240709_223632_000.wav | | NYCLEI | 3 | 2 | 0.667000 | NYCLEIS |
| 15 | Data | NEWMINI01_20240709_220728.wav | NEWMINI01_20240709_220728_000.wav | | NoID | 2 | 0 | 0.000000 | Noise |
| 16 | Data | NEWMINI01_20240709_220226.wav | NEWMINI01_20240709_220226_000.wav | | NoID | 3 | 0 | 0.000000 | Noise |
| 17 | Data | NEWMINI01_20240709_221922.wav | NEWMINI01_20240709_221922_000.wav | | NoID | 2 | 0 | 0.000000 | Noise |
| 18 | Data | NEWMINI01_20240709_223517.wav | NEWMINI01_20240709_223517_000.wav | | NoID | 4 | 0 | 0.000000 | Noise |
| 19 | Data | NEWMINI01_20240709_223626.wav | NEWMINI01_20240709_223626_000.wav | | NoID | 3 | 0 | 0.000000 | Noise |
| 20 | Data | NEWMINI01_20240709_223529.wav | NEWMINI01_20240709_223529_000.wav | | NoID | 15 | 0 | 0.000000 | PIP |
| 21 | Data | NEWMINI01_20240709_230904.wav | NEWMINI01_20240709_230904_000.wav | | NoID | 3 | 0 | 0.000000 | Noise |
| 22 | Data | NEWMINI01_20240710_044608.wav | NEWMINI01_20240710_044608_000.wav | | NoID | 2 | 0 | 0.000000 | Noise |
| 23 | Data | NEWMINI01_20240710_035416.wav | NEWMINI01_20240710_035416_000.wav | | NoID | 5 | 0 | 0.000000 | Noise |
| 24 | Data | NEWMINI01_20240709_220307.wav | NEWMINI01_20240709_220307_000.wav | | Noise | | | | Noise |
| 25 | Data | NEWMINI01_20240709_220342.wav | NEWMINI01_20240709_220342_000.wav | | Noise | | | | Noise |
| | | | | | | | | | |



| | FOLDER | IN FILE | OUT FILE FS | OUT FILE ZC | AUTO ID | PULSES | MATCHING | MATCH RATIO | MANUAL ID |
|-----|--------|-------------------------------|-----------------------------------|-------------|---------|--------|----------|-------------|-----------|
| 92 | Data | NEWMINI01 20240710 053212.wav | NEWMINI01 20240710 053212 000.wav | | Noise | | | | |
| 93 | Data | NEWMINI01_20240710_053227.wav | NEWMINI01_20240710_053227_000.wav | | Noise | | | | |
| 94 | Data | NEWMINI01_20240710_053815.wav | NEWMINI01_20240710_053815_000.wav | | Noise | | | | |
| 95 | Data | NEWMINI01_20240710_053903.wav | NEWMINI01_20240710_053903_000.wav | | Noise | | | | |
| 96 | Data | NEWMINI01_20240709_220942.wav | NEWMINI01_20240709_220942_000.wav | | PIPPIP | 134 | 125 | 0.933000 | |
| 97 | Data | NEWMINI01_20240709_221218.wav | NEWMINI01_20240709_221218_000.wav | | PIPPIP | 120 | 115 | 0.958000 | |
| 98 | Data | NEWMINI01_20240709_221039.wav | NEWMINI01_20240709_221039_000.wav | | PIPPIP | 122 | 113 | 0.926000 | |
| 99 | Data | NEWMINI01_20240709_222912.wav | NEWMINI01_20240709_222912_000.wav | | PIPPIP | 107 | 105 | 0.981000 | |
| 100 | Data | NEWMINI01_20240709_221057.wav | NEWMINI01_20240709_221057_000.wav | | PIPPIP | 102 | 96 | 0.941000 | |
| 101 | Data | NEWMINI01_20240709_221024.wav | NEWMINI01_20240709_221024_000.wav | | PIPPIP | 96 | 93 | 0.969000 | |
| 102 | Data | NEWMINI01_20240709_222332.wav | NEWMINI01_20240709_222332_000.wav | | PIPPIP | 76 | 69 | 0.908000 | |
| 103 | Data | NEWMINI01_20240709_222939.wav | NEWMINI01_20240709_222939_000.wav | | PIPPIP | 64 | 62 | 0.969000 | |
| 104 | Data | NEWMINI01_20240709_220957.wav | NEWMINI01_20240709_220957_000.wav | | PIPPIP | 67 | 61 | 0.910000 | |
| 105 | Data | NEWMINI01_20240709_223024.wav | NEWMINI01_20240709_223024_000.wav | | PIPPIP | 41 | 39 | 0.951000 | |
| 106 | Data | NEWMINI01_20240709_221603.wav | NEWMINI01_20240709_221603_000.wav | | PIPPIP | 36 | 36 | 1.000000 | |
| 107 | Data | NEWMINI01_20240709_221431.wav | NEWMINI01_20240709_221431_000.wav | | PIPPIP | 30 | 28 | 0.933000 | |
| 108 | Data | NEWMINI01_20240709_222252.wav | NEWMINI01_20240709_222252_000.wav | | PIPPIP | 13 | 13 | 1.000000 | |
| 109 | Data | NEWMINI01_20240709_222300.wav | NEWMINI01_20240709_222300_000.wav | | PIPPIP | 5 | 5 | 1.000000 | |
| 110 | Data | NEWMINI01_20240709_223444.wav | NEWMINI01_20240709_223444_000.wav | | PIPPIP | 5 | 5 | 1.000000 | |
| 111 | Data | NEWMINI01_20240709_222355.wav | NEWMINI01_20240709_222355_000.wav | | PIPPIP | 9 | 5 | 0.556000 | |
| 112 | Data | NEWMINI01_20240709_221510.wav | NEWMINI01_20240709_221510_000.wav | | PIPPIP | 4 | 4 | 1.000000 | |
| 113 | Data | NEWMINI01_20240709_221424.wav | NEWMINI01_20240709_221424_000.wav | | PIPPIP | 4 | 4 | 1.000000 | |
| 114 | Data | NEWMINI01_20240709_222351.wav | NEWMINI01_20240709_222351_000.wav | | PIPPIP | 4 | 4 | 1.000000 | |
| 115 | Data | NEWMINI01_20240709_222405.wav | NEWMINI01_20240709_222405_000.wav | | PIPPIP | 4 | 4 | 1.000000 | |
| 116 | Data | NEWMINI01_20240709_233143.wav | NEWMINI01_20240709_233143_000.wav | | PIPPIP | 4 | 4 | 1.000000 | |
| 117 | Data | NEWMINI01_20240709_222315.wav | NEWMINI01_20240709_222315_000.wav | | PIPPIP | 3 | 3 | 1.000000 | |
| 118 | Data | NEWMINI01_20240709_223455.wav | NEWMINI01_20240709_223455_000.wav | | PIPPIP | 2 | 2 | 1.000000 | |
| 119 | Data | NEWMINI01_20240709_223723.wav | NEWMINI01_20240709_223723_000.wav | | PIPPIP | 2 | 2 | 1.000000 | |
| 120 | Data | NEWMINI01_20240709_223714.wav | NEWMINI01_20240709_223714_000.wav | | PIPPIP | 4 | 2 | 0.500000 | |
| 121 | Data | NEWMINI01_20240709_224201.wav | NEWMINI01_20240709_224201_000.wav | | PIPPIP | 6 | 1 | 0.167000 | |
| 122 | Data | NEWMINI01_20240710_001523.wav | NEWMINI01_20240710_001523_000.wav | | PIPPYG | 56 | 55 | 0.982000 | |
| 123 | Data | NEWMINI01_20240710_002937.wav | NEWMINI01_20240710_002937_000.wav | | PIPPYG | 57 | 52 | 0.912000 | |
| 124 | Data | NEWMINI01_20240710_031658.wav | NEWMINI01_20240710_031658_000.wav | | PIPPYG | 48 | 41 | 0.854000 | |
| 125 | Data | NEWMINI01_20240710_022117.wav | NEWMINI01_20240710_022117_000.wav | | PIPPYG | 34 | 31 | 0.912000 | |
| 126 | Data | NEWMINI01_20240709_223011.wav | NEWMINI01_20240709_223011_000.wav | | PIPPYG | 28 | 28 | 1.000000 | |
| 127 | Data | NEWMINI01_20240710_002829.wav | NEWMINI01_20240710_002829_000.wav | | PIPPYG | 27 | 22 | 0.815000 | |
| 128 | Data | NEWMINI01_20240710_002919.wav | NEWMINI01_20240710_002919_000.wav | | PIPPYG | 37 | 22 | 0.595000 | |
| 129 | Data | NEWMINI01_20240709_223000.wav | NEWMINI01_20240709_223000_000.wav | | PIPPYG | 21 | 17 | 0.810000 | |
| 130 | Data | NEWMINI01_20240710_002839.wav | NEWMINI01_20240710_002839_000.wav | | PIPPYG | 33 | 8 | 0.242000 | |
| 121 | Data | NEWMINI01 20240710 002020 wav | NEWMINI01 20240710 002920 000 wm/ | | DIDDVG | 17 | 6 | 0 252000 | |