

**A FIVE YEAR STUDY (2018-2022) OF THE FLORA AND FAUNA OF BALLYWILLIAM (R909097), BALLYPOREEN, CAHIR, COUNTY TIPPERARY, IRELAND**

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**Abstract**

Plants and animals were listed over a five-year period (2018-2022) within the 100m grid square (Irish grid reference R909097) around the author's home at Ballywilliam, Ballyporeen Cahir, County Tipperary, Ireland (Fig. 1). The area consists of diversely structured countryside in a secluded location in the mountainous foothills of the Knockmealdowns mountains. The habitats consist of old stone walls, hedges with old spruces, old ivy and many hawthorns. It also includes heathy ground, wet meadows, many small streams and swamps. There are numerous deciduous trees including alder, ash, birch, maple, oak and willow. In addition, there are old and more-recently planted forest plantations with fir, larch, pine and spruce.

**Key words:** fauna, flora, lists, 2018-2022, Ballywilliam, Ballyporeen, Cahir, County Tipperary, Ireland, Irish grid reference (R909097).

**Introduction**

Several years ago, I decided to list all the plants and animals that could be observed in the 100m grid square surrounding my home at Ballywilliam (R909097), Ballyporeen, Cahir, County Tipperary, Ireland. The house is a stony one in a secluded location in the mountainous foothills of the Knockmealdown mountains. The house has a rich flowering garden which includes plants specially planted for insects. These include trees, shrubs, perennials and other plants flowering throughout the year. There is a small ditch, natural stone walls, large single stones and additional wild areas with thistles, nettles and sorrel.

The area within the 100m grid square consists of diversely structured countryside including old stone walls, hedges with old spruces, old ivy and many hawthorns. It also includes heathy ground, wet meadows, many small streams and swamps. The hedges around the meadows are also diverse with gorse, blueberries and blackberries. There are numerous deciduous trees including alder, ash, birch, maple, oak and willow. In addition, there are old and more-recently planted forest plantations fir, larch, pine and spruce.

I listed and photographed all the plants and animals that I could observe in the area including the garden and on the walls of the stony house, on the roadsides, walls and meadows to the

nearby mountain road and in the hedges and the small water habitats around the house. Specimens (e.g. moths, caddisflies) attracted to light at the house were also noted. Through contacts with specialists (listed in the acknowledgements), my determinations were confirmed or corrected *via* photographs and/or voucher specimens. Unidentified specimens were also determined with their assistance.

The records were sent to the National Biodiversity Data Centre. One species - unfortunately an invasive flatworm species - is new to Ireland (*Marionfyfea adventor* Jones & Sluys, 2016) while most were new to the 1000m grid square. I also wrote a small summary book, profusely illustrated with photographs and detailing the information, *Diverse – rich – beautiful Baile Liam “What lives in my region” foothills of the Knockmealdowns 5-year monitoring: 2018 – 2022*. Sadly, all the printed copies were lost in transit to me from the printers in Germany. This paper is based on the surviving proofs of the book and was prepared by James P. O’Connor to preserve the data in a printed format. Professor Tom Bolger and Margaret Norton kindly reviewed the manuscript to detect any errors made by the Editor.

The nomenclature mainly follows GBIF: The Global Biodiversity Information Facility (2023) with some additions from the National Biodiversity Data Centre (2023), O’Connor (2021), Bond, Nash and O’Connor (2006), O’Connor, Nash and Broad (2009), O’Connor and Nelson (2012) and Seaward (2023). Nomenclature for vascular plants follows Stace (2019).

## **IRISH GRID R909097: PROVEN OCCURRENCES OF ANIMALS AND PLANTS (SPECIES, GENERA, FAMILIES) FOR THE FIVE YEARS: 2018, 2019, 2020, 2021 AND 2022.**

### **FAUNAL LISTS**

#### **Coelenterata**

##### **Cnidaria: Hydrozoa - Common Hydra**

*Hydra vulgaris* Pallas, 1766: 2020.

#### **Platyhelminthes**

##### **Tricladida - Flatworms**

*Australoplana sanguinea* (Moseley, 1877): 2019, 2020, 2021.

*Dendrocoelum lacteum* (Müller, 1774): 2021, 2022.

*Marionfyfea adventor* Jones & Sluys, 2016: 2022.

*Microplana terrestris* (O.F.Müller, 1773) Linden, 1900: 2022.

**Nematomorpha**

**Gordioida - White Horsehair Worm**

*Gordioidea* sp.: 2020, 2021, 2022.

**Nemertea**

*Argonemertes dendyi* (Dakin, 1915): 2019.

**Annelida**

**Clitellata - Earthworms**

*Allolobophora chlorotica* (Savigny, 1826): 2019, 2020, 2021.

*Eisenia* cf *fetida* (Savigny, 1826): 2021, 2022.

*Lumbricus rubellus* Hoffmeister, 1843: 2019, 2021.

*Lumbricus* cf *terrestris* Linnaeus, 1758: 2018, 2019, 2020.

*Lumbricus* sp.: 2018, 2019, 2020, 2021, 2022.

**Arthropoda**

**Chilopoda - Centipedes**

*Lithobius* cf *borealis* Meinert, 1868: 2020, 2021, 2022.

**Diplopoda - Millipedes**

*Cylindroiulus* cf *punctatus* (Leach, 1815): 2021, 2022

*Julus* cf *scandinavicus* (Latzel, 1884): 2019, 2020.

*Polydesmus* agg cf *angustus* Latzel, 1884: 2019, 2020, 2021.

*Tachypodoiulus niger* (Leach, 1814): 2019, 2020, 2021, 2022.

**Crustacea**

**Isopoda - Woodlice**

*Oniscus asellus* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.

*Porcellio scaber* Latreille, 1804: 2018, 2019, 2020, 2021, 2022.

**Arachnida**

**Arachnida: Acari - Mites**

*Damaeus* cf *onustus* Koch, 1844: 2020.

*Panonychus ulmi* (Koch, 1836): 2018, 2019, 2020, 2021.

*Gamasina* sp.: 2019.

*Parasitus* cf *fucorum* (De Geer, 1778): 2018, 2019, 2020, 2021, 2022.

*Thrombidium holosericeum* (Linnaeus, 1758): 2018, 2019, 2020.

**Arachnida: Araneae - Spiders**

- Agelena labyrinthica* (Clerck, 1757): 2018, 2019, 2020, 2021, 2022.  
*Alopecosa pulverulenta* (Clerck, 1757): 2019.  
*Amaurobius cf fenestralis* (Ström, 1768): 2019.  
*Amaurobius similis* (Blackwall, 1861): 2018, 2019, 2020, 2021, 2022.  
*Amaurobius ferox* (Walckenaer, 1830): 2021.  
*Araneus diadematus* Clerck, 1757: 2018, 2019, 2021.  
*Araniella* agg. cf *inconspicua* (Simon, 1874): 2018, 2019.  
*Araniella cucurbitina* (Clerck, 1757): 2018.  
*Araniella cucurbitina* / *A. opisthographa* (Kulczyński, 1905): 2019, 2020, 2021, 2022.  
*Araniella* sp.: 2020, 2021.  
*Clubiona cf brevipes* Blackwall, 1841: 2018.  
*Clubiona cf reclusa* O. Pickard-Cambridge, 1863: 2018.  
*Clubiona* sp.: 2019, 2020, 2021.  
*Cnephalocotes obscurus* (Blackwall, 1834): 2018.  
*Dictyna arundinacea* (Linnaeus, 1758): 2019.  
*Drassodes cupreus* (Blackwall, 1834) / *D. lapidosus* (Walckenaer, 1802): 2020, 2021.  
*Drassodes* sp.: 2019, 2020, 2021, 2022.  
*Enoplognatha ovata* (Clerck, 1757) / *E. latimana* Hippa & Oksala, 1982 var. *lineata*: 2018, 2019, 2020, 2021, 2022.  
*Enoplognatha ovata* (Clerck, 1757) / *E. latimana* Hippa & Oksala, 1982 var. *redimida*: 2019, 2020.  
*Eratigena atrica* (C. L. Koch, 1843): 2018, 2019, 2020, 2021, 2022.  
*Eratigena atrica* / *E. x saeva* (Blackwall, 1844): 2018, 2020, 2021, 2022.  
*Erigone* sp.: 2020.  
*Euophrys frontalis* (Walckenaer, 1802): 2018.  
Gnaphosidae sp.: 2020.  
*Haplodrassus cf signifer* (C. L. Koch, 1839): 2018.  
*Hygrolycosa cf rubrofasciata* (Ohlert, 1865): 2018.  
*Larinioides cf cornutus* (Clerck, 1757): 2020.  
*Leptyphantes cf minutus* (Blackwall, 1833): 2018, 2020.  
*Linyphia hortensis* Sundevall, 1830: 2018.  
*Linyphia triangularis* (Clerck, 1757): 2018, 2019, 2021, 2022.  
*Metellina mengei* (Blackwall, 1869): 2018, 2019, 2020, 2021, 2022.  
*Metellina merianae* (Scopoli, 1763): 2018, 2019, 2020, 2021, 2022.  
*Metellina merianae* var. *celata* (Blackwall, 1841): 2020.

- Metellina segmentata* (Clerck, 1757): 2018, 2019, 2020, 2021, 2022.  
*Micaria pulicaria* (Sundevall, 1831): 2021.  
*Neottiura bimaculata* (Linnaeus, 1767): 2019.  
*Neriere clathrata* (Sundevall, 1830): 2018, 2019, 2020, 2021, 2022.  
*Neriere montana* (Clerck, 1757): 2019, 2020, 2021, 2022.  
*Neriere peltata* (Wider, 1834): 2018, 2019, 2022.  
*Neriere radiata* (Walckenaer, 1841): 2019.  
*Nuctenea umbratica* (Clerck, 1757): 2018, 2019, 2020, 2021, 2022.  
*Pachygnatha clercki* Sundevall, 1823: 2018, 2019, 2020.  
*Pachygnatha degeeri* Sundevall, 1830: 2019, 2021.  
*Paidiscura pallens* (Blackwall, 1834): 2019.  
*Pardosa agricola* (Thorell, 1856): 2018.  
*Pardosa amentata* (Clerck, 1757): 2018, 2019, 2020, 2021, 2022.  
*Pardosa lugubris* (Walckenaer, 1802) s.l.: 2018, 2020.  
*Pardosa monticola* (Clerck, 1757) agg.: 2021, 2022.  
*Pardosa nigriceps* (Thorell, 1856): 2021, 2022.  
*Pardosa* sp.: 2018, 2019, 2020, 2021, 2022.  
*Philodromus aureolus* (Clerck, 1757) agg.: 2019.  
*Pholcus phalangioides* (Fuesslin, 1775): 2018, 2019, 2020, 2021, 2022.  
*Phylloneta impressa* (L. Koch, 1881) / *P. sisypchia* (Clerck, 1757): 2019.  
*Pirata piraticus* (Clerck, 1757): 2019, 2021, 2022.  
*Pisaura mirabilis* (Clerck, 1757): 2018, 2019, 2020, 2021, 2022.  
*Salticus scenicus* (Clerck, 1757): 2019, 2021, 2022.  
*Scotophaeus blackwalli* (Thorell, 1871): 2018, 2019, 2021, 2022.  
*Segestria senoculata* (Linnaeus, 1758): 2018, 2020, 2021, 2022.  
*Steatoda grossa* (C.L. Koch, 1838): 2022.  
*Steatoda nobilis* (Thorell, 1875): 2021, 2022.  
*Tetragnatha cf extensa* (Linnaeus, 1758): 2020.  
*Tetragnatha montana* Simon, 1874: 2018, 2020, 2021, 2022.  
*Tetragnatha cf obtusa* C.L. Koch, 1837: 2018.  
*Tetragnatha* sp.: 2019.  
*Theridion melanurum* Hahn, 1831 agg.: 2018, 2019, 2021, 2022.  
*Xysticus cf cristatus* (Clerck, 1757): 2018, 2019, 2020.  
*Xysticus cristatus* / *X. kochi* Thorell, 1872: 2018, 2019, 2020, 2021, 2022.  
*Zora spinimana* (Sundevall, 1833): 2019.  
*Zygiella x-notata* (Clerck, 1757): 2018, 2019, 2020, 2021, 2022.

**Arachnida: Ixodida - Ticks**

*Ixodes cf ricinus* Linnaeus, 1758: 2018, 2020, 2022.

**Arachnida: Opiliones - Harvestmen**

*Lacinius ephippiatus* (Koch, 1835): 2018.

*Leiobunum blackwalli* Meade, 1861: 2018, 2019.

*Leiobunum rotundum* (Latreille, 1798): 2018, 2019, 2020, 2021, 2022.

*Leiobunum* sp.: 2019, 2020.

*Megabunus diadema* (Fabricius, 1779): 2018, 2019, 2020, 2021, 2022.

*Mitopus morio* (Fabricius, 1779): 2018, 2019, 2020, 2021, 2022.

*Paroligolophus agrestis* (Meade, 1855): 2018, 2019, 2020, 2021, 2022.

*Phalangium opilio* Linnaeus, 1758: 2019.

*Rilaena triangularis* (Herbst, 1799): 2018, 2019, 2020, 2021, 2022.

**Hexapoda**

**Collembola - Springtails**

*Hypogastrura* sp.: 2022.

*Pogonognathellus longicornis* (O.F. Müller, 1776): 2019, 2022,

*Tomocerus cf vulgaris* (Tullberg, 1871): 2019, 2020, 2021, 2022.

**Insecta**

**Coleoptera - Beetles**

*Adalia decempunctata* (Linnaeus, 1758): 2019, 2022.

*Agabus bipustulatus* (Linnaeus, 1767): 2020, 2021.

*Agabus guttatus* (Paykull, 1798)/*Agabus biguttatus* (Olivier, 1795): 2020.

*Agabus nebulosus* (Forster, 1771): 2020.

*Agonum muelleri* (Herbst, 1784): 2019, 2020, 2021.

*Altica* sp.: 2019.

*Amara aenea* (DeGeer, 1774): 2022.

*Amara ovata* (Fabricius, 1792): 2019, 2020.

*Amara* sp.: 2022.

*Anatis ocellata* (Linnaeus, 1758): 2019.

*Anchomenus dorsalis* (Pontoppidan, 1763): 2020.

*Anotylus* sp.: 2019.

*Aphodius fossor* (Linnaeus, 1758): 2021.

*Aphodius rufipes* (Linnaeus, 1758): 2019, 2020, 2021, 2022.

- Aphodius* sp.: (+ phoretic mites 2019) 2019, 2021, 2022.  
*Asemum striatum* (Linnaeus, 1758): 2020.  
*Asiolestia ferruginea* (Scopoli, 1763): 2020.  
*Asiolestia* sp.: 2019.  
*Athous haemorrhoidalis* (Fabricius, 1801): 2019, 2022.  
*Athous subfuscus* (Müller, 1764): 2020.  
*Barypeithes* sp.: 2019, 2020, 2022.  
*Bembidion* sp.: 2021.  
*Bolitobius cingulatus* Mannerheim, 1830: 2019.  
*Byturus* sp.: 2021.  
*Cantharis* sp. : 2021, 2022.  
*Cantharis cryptica* Ashe, 1947: 2020, 2021, 2022.  
*Cantharis* cf *fulvicollis* Fabricius, 1792: 2019.  
*Cantharis* cf *lividus* Linnaeus, 1758: 2022.  
*Cantharis* cf *pellucida* Fabricius, 1792: 2022.  
*Cantharis lateralis* Linnaeus, 1758: 2018.  
*Cantharis rufa* (Linnaeus, 1758): 2019, 2021, 2022.  
*Cassida flaveola* Thunberg, 1794: 2019.  
*Cassida rubiginosa* Müller, 1776: 2019.  
*Calvia quatuordecimguttata* (Linnaeus, 1758): 2018, 2019, 2021, 2022.  
*Ceutorhynchus obstrictus* (T. Marsham, 1802): 2020.  
*Cicindela campestris* Linnaeus, 1758: 2022.  
*Coccidula rufa* (Herbst, 1783): 2019.  
*Coccinella septempunctata* Linnaeus, 1758: 2018, 2019, 2020 , 2021, 2022.  
*Columbetes fuscus* (Linnaeus, 1758): 2022.  
*Cytilus sericeus* (Forster, 1771): 2018.  
*Deleaster dichrous* (Gravenhorst, 1802): 2020, 2022.  
Dytiscidae sp.: 2018 , 2019, 2020, 2021, 2022.  
Elateridae sp.: 2018, 2022.  
*Epuraea* sp.: 2021, 2022.  
Galerucinae sp.: 2020, 2022.  
*Gastrophysa viridula* (De Geer, 1775): 2018, 2019, 2020, 2021, 2022.  
*Grammoptera* sp.: 2020.  
Halticinae sp.: 2019.  
*Harmonia axyridis* (Pallas, 1773): 2019.  
*Helophorus* sp.: 2019, 2020.

- Hippodamia variegata* (Goeze, 1777): 2018.  
*Hydroporus* cf *tesselatus* (Drapiez, 1819): 2020 .  
*Hylobius abietis* (C. Linnaeus, 1758): 2020, 2022.  
*Hypera zoilus* (Scopoli, 1763): 2022.  
*Ilybius* sp.: 2019.  
*Lagria hirta* (Linnaeus, 1758): 2019, 2022.  
*Latrobium fulvipenne* (Gravenhorst, 1806): 2018.  
*Leiosoma* sp.: 2020, 2022.  
*Leistus* sp.: 2019.  
*Leistus* cf *fulvibarbis* Dejean, 1826: 2019.  
*Lignodes enucleator* (G.W.F. Panzer, 1798): 2018.  
*Lochmaea caprea* (Linnaeus, 1758): 2018.  
*Lochmaea suturalis* (Thomson, 1866): 2019, 2020, 2021, 2022.  
*Malthinus* cf *seriepunctatus* Kiesenwetter, 1851: 2022.  
*Mononychus* cf *punctumalbum* (J.F.W. Herbst, 1784): 2019.  
*Nedyus quadrimaculatus* (C. Linnaeus, 1758): 2019.  
Nitidulidae sp.: 2020.  
*Notiophilus biguttatus* (Fabricius, 1779): 2019, 2020, 2021, 2022.  
*Notiophilus* sp.: 2022.  
*Ocys harpaloides* (Audinet-Serville, 1821) / *O. tachysoides* (Antoine, 1933): 2022.  
*Otiorhynchus* sp.: 2018, 2019, 2020, 2021.  
*Otiorhynchus singularis* (Linnaeus, 1767): 2020, 2021.  
*Otiorhynchus* cf *singularis*: 2019, 2020, 2022.  
*Otiorhynchus singularis* / *O. veterator* Uyttenboogaart, 1932: 2018, 2019.  
*Otiorhynchus sulcatus* (Fabricius, 1775): 2019.  
*Philontus* sp.: 2019.  
*Phosphuga atrata* (Linnaeus, 1758): 2021.  
*Phyllobius argentatus* Linnaeus, 1758: 2020.  
*Phyllobius pomaceus* Gyllenhal, 1834: 2018, 2019, 2020, 2022.  
*Prasocuris* (*Hydrothassa*) *marginella* (Linnaeus, 1758): 2018, 2019, 2020.  
*Psylliodes* sp.: 2020.  
*Pterostichus nigrita* (Paykull, 1790) / *P. rhaeticus* Heer, 1837: 2020.  
*Pterostichus strenuus* (Panzer, 1796): 2018.  
*Pterostichus vernalis* (Panzer, 1796): 2019.  
*Pterostichus* sp.: 2020, 2021, 2022.  
*Quedius* sp.: 2019, 2022.



*Rhagium bifasciatum* Fabricius, 1775: 2018, 2019, 2020, 2021, 2022.  
*Rhagonycha fulva* (Scopoli, 1763): 2019, 2020, 2021, 2022.  
*Rhagonycha lignosa* (Müller, 1764): 2020.  
*Serica brunnea* (Linnaeus, 1758): 2019.  
*Silpha* sp.: 2020.  
*Sitona* sp. 2019.  
*Sitona* cf *sulcifrons* (Thunberg, 1798): 2018.  
*Sitona regensteinensis* (Herbst, 1797): 2022.  
*Sphaeroderma* cf *S. rubidum* (Graëlls, 1858) / *S. testaceum* (Fabricius, 1775).  
*Stenus* sp.: 2021.  
*Strophosoma melanogrammum* (Forster, 1771): 2018, 2019, 2020, 2021.  
*Tachinus* sp.: 2020.  
*Tachinus subterraneus* (Linnaeus, 1758): 2021.  
*Tachyporus* sp.: 2019, 2022.  
Xantholininae sp.: 2020.

#### **Dermaptera - Earwigs**

*Forficula auricularis* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.

#### **Diptera: Bibionidae - Fever fly**

*Dilophus febrilis* (Linnaeus, 1758): 2019.  
*Dilophus* cf *febrilis* (Linnaeus, 1758): 2020.

#### **Diptera: Cecidomyiidae - Gall midge**

*Dasineura urticae* (Perris, 1840): 2021, 2022.

#### **Diptera: Ceratopogonidae - Biting midge**

*Culicoides impunctatus* Goetghebuer, 1920: 2018, 2019, 2020, 2021, 2022.

#### **Diptera - Craneflies**

*Limonia nubeculosa* Meigen, 1804: 2019, 2020, 2022.  
*Limonia* sp.: 2018, 2019, 2020, 2021, 2022.  
*Pedicia rivosa* (Linnaeus, 1758): 2019, 2021, 2022.  
*Ptychoptera albimana* (Fabricius, 1787): 2018.  
*Tipula confusa* van der Wulp, 1883: 2021.  
*Tipula fascipennis* Meigen, 1818: 2018.

*Tipula fulvipennis* De Geer, 1776: 2020, 2021, 2022.  
*Tipula lateralis* Meigen, 1804: 2021.  
*Tipula luna* Westhoff, 1879: 2022.  
*Tipula maxima* Poda, 1761: 2019.  
*Tipula oleracea* Linnaeus, 1758: 2019, 2022.  
*Tipula pagana* Meigen, 1818: 2020.  
*Tipula paludosa* Meigen, 1830: 2019, 2021, 2022.  
*Tipula paludosa* Meigen, 1830 / *T. czizeki* de Jong, 1925: 2019.  
*Tipula scripta* Meigen, 1830: 2022.  
*Tipula* sp.: 2018, 2019, 2020, 2021, 2022.  
*Tipula submarmorata* Schummel, 1833: 2021.  
*Tipula vittata* Meigen, 1804: 2019, 2020, 2021, 2022.

**Diptera: Psychodidae - Moth fly**

Psychodidae spp.: 2018, 2019, 2020, 2021, 2022.

**Diptera: Ptychopteridae - Phantom crane fly**

*Ptychoptera albimana* (Fabricius, 1787): 2018.

**Diptera: Syrphidae - Hoverflies**

*Anasimyia* sp.: 2018.  
*Arctophila superbiens* (Müller, 1776): 2020.  
*Baccha elongata* (Fabricius, 1775): 2020.  
*Cheilosia illustrata* (Harris, 1780): 2022.  
*Cheilosia pagana* (Meigen, 1822): 2018.  
*Cheilosia* sp.: 2020.  
*Chrysogaster solstitialis* (Fallén, 1817): 2020, 2021, 2022.  
*Chrysotoxum bicinctum* (Linnaeus, 1758): 2020, 2021, 2022.  
*Chrysotoxum* cf *intermedium* Meigen, 1822: 2018.  
*Criorhina* cf *berberina* (Fabricius, 1805): 2018.  
*Didea fasciata* Macquart, 1834: 2018.  
*Episyrphus balteatus* (De Geer, 1776): 2018, 2019, 2020, 2021, 2022.  
*Eristalis arbustorum* (Linnaeus, 1758) / *E. abusiva* Collin, 1931: 2020, 2021.  
*Eristalis lineata* Wahlberg, 1843: 2021, 2022.  
*Eristalis* cf *rupium* Fabricius, 1805: 2020.  
*Eristalis intricaria* (Linnaeus, 1758): 2020, 2021.

- Eristalis nemorum* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.  
*Eristalis pertinax* (Scopoli, 1763): 2018, 2019, 2020, 2021, 2022.  
*Eristalis tenax* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.  
*Eristalis* sp.: 2020, 2021.  
*Eupeodes corollae* (Fabricius, 1794): 2019, 2020, 2021.  
*Eupeodes luniger* (Meigen, 1822): 2019, 2020.  
*Eupeodes* sp.: 2022.  
*Helophilus hybridus* Loew, 1846: 2018, 2021.  
*Helophilus pendulus* (Linnaeus, 1758): 2019, 2020, 2021, 2022.  
*Helophilus trivittatus* (Fabricius, 1805): 2018, 2021.  
*Leucozona glaucia* (Linnaeus, 1758): 2021, 2022.  
*Leucozona lucorum* (Linnaeus, 1758): 2021.  
*Melangyna barbifrons* (Fallén, 1817): 2020.  
*Melangyna cincta* (Fallén, 1817): 2020.  
*Melangyna umbellatarum* (Fabricius, 1794): 2020.  
*Melanostoma scalare* (Fabricius, 1794): 2020, 2021, 2022.  
*Meliscaeva auricollis* (Meigen, 1822): 2018, 2019, 2020, 2021, 2022.  
*Meliscaeva cinctella* (Zetterstedt, 1843): 2019, 2020, 2021, 2022.  
*Meliscaeva* sp.: 2020.  
*Merodon equestris* (Fabricius, 1794): 2020.  
*Neoascia* cf *annexa* (Müller, 1776) / *N. tenur* (Harris, 1780): 2020.  
*Orthonevra* sp.: 2022.  
*Platycheirus albimanus* (Fabricius, 1781) (agg): 2018, 2019, 2020, 2021, 2022.  
*Platycheirus* cf *granditarsus* (Forster, 1771): 2022.  
*Platycheirus manicatus* (Meigen, 1822): 2020.  
*Platycheirus peltatus* (Meigen, 1822): 2020.  
*Platycheirus scutatus* (Meigen, 1822) (agg): 2019, 2020, 2021, 2022.  
*Platycheirus* sp.: 2020, 2021, 2022.  
*Rhingia campestris* Meigen, 1822: 2018, 2019, 2020, 2021, 2022.  
*Riponnensia splendens* (Meigen, 1822): 2022.  
*Scaeva pyrastris* (Linnaeus, 1758): 2019, 2021, 2022.  
*Scaeva selenitica* (Meigen, 1822): 2018, 2021, 2022.  
*Sericomyia lappona* (Linnaeus, 1758): 2018, 2022.  
*Sericomyia silentis* (Harris, 1778): 2018, 2019, 2020, 2021, 2022.  
*Sphaerophoria* cf *scripta* (Linnaeus, 1758): 2018.  
*Sphegina elegans* Schummel, 1841: 2022.

*Sphegina cf elegans* Schummel, 1841: 2020, 2021.  
*Sphegina cf chunipes* (Fallén, 1816): 2021.  
*Syrpitta pipiens* (Linnaeus, 1758): 2019, 2020, 2021, 2022.  
*Syrphus cf ribesii* (Linnaeus, 1758): 2020, 2021, 2022.  
*Syrphus* sp.: 2020, 2021, 2022.  
*Tropidia cf scita* (Harris, 1780): 2018.  
*Volucella bombylans* (Linnaeus, 1758): 2022.  
*Volucella pellucens* (Linnaeus, 1758): 2020.  
*Xylota cf abiens* Meigen, 1822: 2022.  
*Xylota segnis* (Linnaeus, 1758): 2020, 2022.

**Diptera: Tabanidae - Horse-flies**

*Haematopota pluvialis* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.  
*Tabanus sudeticus* Zeller, 1842: 2021, 2022.

**Diptera: Trichoceridae - Winter gnat**

*Trichocera annulata* Meigen, 1818: 2018, 2019, 2020.  
*Trichocera* sp.: 2018, 2019, 2020, 2021, 2022.

**Diptera - other two-winged flies**

Anthomyiidae sp.: 2020.  
*Calliphora vicina* Robineau-Desvoidy, 1830: 2020, 2021, 2022.  
*Calliphora vomitoria* (Linnaeus, 1758): 2018.  
*Chloromyia formosa* (Scopoli, 1763): 2020.  
*Chrysotis* sp.: 2021.  
*Empis* sp.: 2020, 2021.  
Ephydriidae sp.: 2020, 2021.  
*Graphomya maculata* (Scopoli, 1763): 2019, 2020.  
*Haematobosca stimulans* (Meigen, 1824): 2020.  
*Helina depuncta* (Fallén, 1825): 2018.  
*Helina cf evecta* (Harris, 1780): 2020.  
*Hylemya vagans* (Panzer, 1797): 2020.  
*Lucilia* sp.: 2019, 2020, 2021.  
*Meiosimyza decempunctata* (Fallén, 1820): 2020.  
*Mesembrina meridiana* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.  
*Morellia* sp.: 2021.

Muscidae sp.: 2018, 2019, 2020, 2021, 2022.  
*Musca domestica* Linnaeus, 1758: 2018, 2019, 2020, 2021.  
*Opomyza germinationis petrei* Mesnil, 1934: 2021.  
*Phaonia angelicae* (Scopoli, 1763): 2019, 2020, 2021, 2022.  
*Phaonia rufiventris* (Scopoli, 1763): 2020.  
*Phaonia tuguriorum* (Scopoli, 1763): 2020, 2021.  
*Pollenia* sp.: 2020.  
*Pollenia* cf *rudis* (Fabricius, 1794): 2020.  
*Protophormia terranova* (Robineau-Desvoidy, 1830): 2018.  
*Rhagio scolopaceus* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.  
*Rhagio* sp.: 2020.  
*Rhamphomyia* sp.: 2020, 2021.  
*Rivellia syngenesiae* (Fabricius, 1781): 2019, 2020, 2021.  
*Sarcophaga* sp.: 2020, 2021.  
*Scathophaga stercoraria* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.  
*Scatophaga* sp.: 2019, 2020.  
*Scatopse notata* (Linnaeus, 1758): 2021.  
*Sciara* cf *analisis* Schiner, 1863: 2020.  
*Sepsis fulgens* Meigen, 1826: 2020.  
*Sepsis* cf *fulgens* Meigen, 1826: 2021, 2022.  
*Sicus* cf *ferrugineus* (Linnaeus, 1761): 2021.  
*Siphona* sp.: 2020, 2021.  
*Siphona* cf *geniculata* (De Geer, 1776): 2020.  
*Tachina grossa* (Linnaeus, 1758): 2020.  
Tachinidae sp.: 2020.  
*Tachydromia* sp.: 2020.  
*Tephritis* cf *neesii* (Meigen, 1830): 2020.  
*Thricops* cf *semicinereus* (Wiedemann, 1817): 2020, 2021.  
*Xyphosia miliaria* (Schrank, 1781): 2020, 2021, 2022.

### **Ephemeroptera - Mayflies**

*Cloeon dipterum* (Linnaeus, 1761): 2020, 2021.  
*Siphonurus lacustris* Eaton, 1870: 2018.

### **Hemiptera: Aphidae – Aphids**

*Acyrtosiphon pisum* (Harris, 1776): 2020, 2021, 2022.

*Macrosiphum rosae* (Linnaeus, 1758): 2020, 2021, 2022.

*Uroleucon jaceae* (Linnaeus, 1758): 2019.

### **Hemiptera: Heteroptera - True bugs**

*Acanthosoma haemorrhoidale* (Linnaeus, 1758): 2022.

*Anthocoris nemorum* (Linnaeus, 1761): 2019, 2020, 2021, 2022.

*Capsus cf ater* (Linnaeus, 1758): 2022.

*Closterotomus norvegicus* (Gmelin, 1790): 2022.

*Coreus marginatus* (Linnaeus, 1758): 2022.

*Dolycoris baccarum* (Linnaeus, 1758): 2020, 2021, 2022.

*Elasmotethus interstinctus* (Linnaeus, 1758): 2019.

*Grypocoris stysi* (Wagner, 1968): 2019.

*Leptoterna dolabrata* (Linnaeus, 1758): 2019, 2022.

*Leptoterna* sp. (nymph): 2022.

*Liocorus tripustulatus* (Fabricius, 1781): 2018, 2022.

*Lygocoris pabulinus* (Linnaeus, 1761): 2020, 2021, 2022.

*Lygus cf wagneri* Remane, 1955 / *L. pratensis* (Linnaeus, 1758): 2022.

*Lygus* sp.: 2022.

*Navis cf limbatus* Dahlbom, 1851: 2022.

*Orthops cf campestris* (Linnaeus, 1758): 2022.

*Palomina prasina* (Linnaeus, 1761): 2018, 2019, 2020, 2021, 2022.

*Pentatoma rufipes* (Linnaeus, 1758): 2020, 2022.

*Picromerus bidens* (Linnaeus, 1758): 2022.

*Piezodorus lituratus* (Fabricius, 1794): 2020, 2021, 2022.

*Pithanus maerkelii* (Herrich-Schaeffer, 1838): 2019.

*Saldula cf saltatoria* (Linnaeus, 1758): 2022.

### **Hemiptera: Homoptera - Spittlebug, leafhopper, planthopper, cicada**

*Aphrophora alni* (Fallén, 1805): 2020, 2022.

*Cicadella viridis* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

*Cixius nervosus* (Linnaeus, 1758): 2019, 2020, 2021, 2022.

*Philaenus spumarius* (Linnaeus, 1758) (6 different varieties): 2018, 2019, 2020, 2021, 2022.

*Javesella dubia* (Kirschbaum, 1868) / *J. pellucida* (Fabricius, 1794): 2020.

*Tachycixius pilosus* (Olivier, 1791): 2019, 2022.

**Hemiptera: Gerridae - Common water strider**

*Gerris lacustris* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

**Hemiptera: Veliidae - Water cricket**

*Velia caprai* Tamanini, 1947: 2018, 2019, 2020, 2021, 2022.

**Hymenoptera: Apidae - Bumble bees**

*Bombus barbutellus* (Kirby, 1802): 2019, 2020, 2021.

*Bombus bohemicus* Seidl, 1837: 2018, 2019, 2020, 2021.

*Bombus hortorum* Linnaeus, 1761): 2020, 2021, 2022.

*Bombus hypnorum* (Linnaeus, 1758): 2019, 2020.

*Bombus lapidarius* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

*Bombus lucorum* (Linnaeus, 1761) agg: 2018, 2019, 2020, 2021, 2022.

*Bombus pascuorum* (Scopoli, 1763): 2018, 2019, 2020, 2021, 2022.

*Bombus pratorum* (Linnaeus, 1761): 2019, 2020, 2021, 2022.

*Bombus sylvestris* Lepeletier, 1832: 2019, 2020.

*Bombus terrestris* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

**Hymenoptera: Apidae – Honey bees**

*Apis mellifera mellifera* Buckfast: 2020 & *Apis mellifera mellifera* Linnaeus, 1758 (dark native bee): 2022.

**Hymenoptera - Solitary bees**

*Andrena bicolor* Fabricius, 1775: 2020.

*Andrena cineraria* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

*Andrena haemorrhoa* (Fabricius, 1781): 2020, 2021, 2022.

*Andrena* sp.: 2018, 2019, 2020, 2021, 2022.

*Halictus rubicundus* (Christ, 1791): 2018, 2019, 2020, 2021, 2022.

*Halictus* sp.: 2018, 2019, 2020, 2021.

*Hylaeus* cf *confusus* Nylander, 1852: 2020.

*Lasioglossum* sp.: 2018, 2019, 2020, 2021, 2022.

*Megachile* cf *cetuncularis* Nylander, 1852: 2020.

*Megachile* cf *willugbiella* (Kirby, 1802): 2019.

*Megachile* sp.: 2021, 2022.

*Nomada* sp.: 2019, 2020, 2021, 2022.

*Sphecodes* sp.: 2020, 2022.

**Hymenoptera: Crabronidae**

*Ectemnius* cf *lapidarius* (Panzer, 1804): 2019.

*Ectemnius* sp.: 2019, 2020, 2021, 2022.

**Hymenoptera: Cynipidae - Gall wasps**

*Andricus curvator* Hartig, 1840 (syn. *A. collaris* Hartig, 1840): 2018, 2019, 2020, 2021, 2022.

*Andricus foecundatrix* (Hartig, 1840): 2021.

*Neuroterus numismalis* (Fourcroy, 1785): 2021.

**Hymenoptera: Formicidae - Ants**

*Lasius* cf *niger* (Linnaeus, 1758) agg: 2018, 2019, 2020.

*Lasius* cf *platythorax* Seifert, 1991: 2020, 2021, 2022.

*Myrmica* cf *rubra* (Linnaeus, 1758) agg: 2018, 2019, 2020.

*Myrmica* cf *ruginodis* Nylander, 1846 / *M. scabrinodis* Nylander, 1846: 2018, 2019, 2020, 2021, 2022

**Hymenoptera- Parasitic wasps**

*Gasteruption assectator* (Linnaeus, 1758) agg.: 2020.

*Ichneumon* cf *insidiosus* Wesmael, 1845: 2021.

Ichneumonidae spp.: 2019, 2020, 2021, 2022.

*Netelia* cf *tarsata* (Brischke, 1880): 2021.

*Ophion* cf *obscuratus* Fabricius, 1798: 2019, 2020, 2021, 2022.

*Ophion scutellaris* Thomson, 1888: 2019.

*Ophion* sp.: 2021, 2022.

**Hymenoptera: Sphecidae**

*Sphex* sp.: 2021.

**Hymenoptera: Symphyta - Sawflies**

*Abia candens* Konow, 1887: 2020.

*Dolerus* sp. (larva): 2020.

*Rhogogaster viridis* (Linnaeus, 1758): 2020.

*Selandria serva* (Fabricius, 1793): 2019.

*Tenthredo* cf *arcuata* Forster, 1771: 2021.

*Tenthredo* cf *notha* Klug, 1817: 2018, 2019, 2020, 2021, 2022.



**Hymenoptera: Vespidae – Social wasps**

*Dolichovespula norvegica* (J.C. Fabricius, 1781): 2019, 2020, 2021, 2022.

*Dolichovespula* sp. (suggest *saxonica* (Fabricius, 1793)): 2020.

*Dolichovespula* cf *sylvestris* (Scopoli, 1763): 2019, 2021.

*Vespula* sp. (suggest *germanica* (Fabricius, 1793)): 2019.

**Lepidoptera**

**Rhopalocera - Butterflies**

*Aglais io* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

*Aglais urticae* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

*Anthocaris cardamines* (Linnaeus, 1758): 2018, 2019, 2020, 2021 , 2022.

*Aphantopus hyperantus* (Linnaeus, 1758): 2018, 2019, 2020, 2021 , 2022.

*Argynnis paphia* (Linnaeus, 1758): 2020, 2021, 2022.

*Leptidea juvernica* Williams, 1946 agg: 2019.

*Lycaena phlaeas* (Linnaeus, 1761): 2018, 2019, 2020, 2021, 2022.

*Maniola jurtina* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

*Pararge aegeria* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

*Pieris napi* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

*Polygonia c -album* (Linnaeus, 1758): 2022.

*Polyommatus icarus* Tutt, 1910: 2020, 2021, 2022.

*Pyronia tithonus* (Linnaeus, 1771): 2019.

*Vanessa atalanta* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

*Vanessa cardui* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

**Heterocera - Moths**

*Abrostola tripartita* (Hufnagel, 1766): 2019, 2022.

*Acasis viretata* (Hübner, 1799): 2019, 2022.

*Acleris bergmanniana* (Linnaeus, 1758): 2022.

*Acleris emergana* (Fabricius, 1775): 2022.

*Acleris laterana* (Fabricius, 1794): 2022.

*Acleris* sp. (*laterana* (Fabricius, 1794) / *A. comerana* (Lienig & Zeller, 1846)): 2020.

*Acronicta rumicis* Linnaeus, 1758: 2019, 2020, 2021, 2022.

*Aethes cnicana* Westwood, 1854: 2019, 2020, 2022.

*Agapeta hamana* (Linnaeus, 1758): 2019, 2021.

*Agonopterix heracliana* Linnaeus, 1758: 2019.

- Agonopterix heracliiana* Linnaeus, 1758 versus *A. ciliella* Stainton, 1849: 2022.  
*Agonopterix nervosa* Haworth, 1812: 2021, 2022.  
*Agriphila straminella* (Denis & Schiffermüller) 1775: 2019, 2020, 2021, 2022.  
*Agriphila* cf *straminella* (Denis & Schiffermüller) 1775: 2022.  
*Agriphila tristella* (Denis & Schiffermüller) 1775: 2019, 2020, 2021, 2022.  
*Agrochola lota* Clerck, 1759: 2019, 2021.  
*Agrotis exclamationis* (Linnaeus, 1758): 2019, 2020, 2021, 2022.  
*Agrotis ipsilon* (Hufnagel, 1766): 2021.  
*Alcis repandata* (Linnaeus, 1758): 2019.  
*Alsophila aescularia* (Denis & Schiffermüller) 1775: 2020, 2021.  
*Alucita hexadactyla* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.  
*Amphipyra pyramidea* Linnaeus, 1758: 2021, 2022.  
*Anania (Eurrhyncha) hortulata* Linnaeus, 1758: 2019, 2020, 2021, 2022.  
*Ancylis badiana* (Denis & Schiffermüller) 1775: 2019, 2020.  
*Ancylis geminana* (Donovan, 1806): 2019.  
*Anticlea derivata* (Denis & Schiffermüller) 1775: 2019.  
*Antophila fabriciana* (Linnaeus, 1767): 2018, 2020, 2021, 2022.  
*Apamea crenata* (Hufnagel, 1766): 2020, 2022.  
*Apamea monoglypha* (Hufnagel, 1766): 2019, 2020, 2021, 2022.  
*Apamea remissa* (Hübner, [1809]): 2022.  
*Apamea* sp.: 2020.  
*Aphelia paleana* (Hübner, 1793): 2019, 2020.  
*Aphomia sociella* (Linnaeus, 1758): 2022.  
*Atolmis rubricollis* Linnaeus, 1758: 2018, 2019, 2020.  
*Autographa gamma* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.  
*Axylia putris* Linnaeus, 1761: 2019, 2022.  
*Bactra lancealana* (Hübner, 1799): 2022.  
*Biston strataria* (Hufnagel, 1767): 2019.  
*Blastobasis adustella* Walsingham, 1894: 2019, 2021, 2022.  
*Blastobasis lacticolella* Rebel, 1939: 2020.  
*Bryotropha* sp.: 2019, 2022.  
*Bryotropha terella* (Denis & Schiffermüller) 1775: 2021.  
*Cabera exanthemata* (Scopoli, 1763): 2019, 2020, 2021, 2022.  
*Cabera pusaria* (Linnaeus, 1758): 2019, 2022.  
*Callistege mi* (Clerck, 1759): 2020.  
*Calliteara pudibunda* Linnaeus, 1758: 2019, 2022.

- Campaea margaritata* (Linnaeus, 1767): 2019.  
*Celaena leucostigma* (Hübner, 1808): 2022.  
*Celypha lacunana* (Denis & Schiffermüller, 1775): 2018, 2019, 2020, 2022.  
*Ceramica pisi* Linnaeus, 1758: 2019, 2020, 2022.  
*Cerapteryx graminis* Linnaeus, 1758: 2019.  
*Cerastis rubricosa* (Denis & Schiffermüller) 1775: 2019, 2020, 2022.  
*Chlorochystis v-ata* (Haworth, 1809): 2019, 2020, 2022.  
*Chrysoteuchia culmella* Linnaeus, 1758: 2019, 2020.  
*Chrysoteuchia* sp.: 2021.  
*Coleophora* sp.: 2019.  
*Colocasia coryli* (Linnaeus, 1758): 2020,  
*Colostygia pectinataria* Hübner, 1825: 2019, 2020, 2021, 2022.  
*Colotois pennaria* (Linnaeus, 1761): 2020.  
*Cosmorhoe ocellata* (Linnaeus, 1758): 2019, 2021, 2022.  
*Crambus lathoniellus* (Zincken, 1817): 2019, 2020, 2022.  
*Crambus pascuella* Linnaeus, 1758: 2019, 2021.  
*Cydia ulicetana* (Haworth, 1811): 2022.  
*Deilephila elpenor* Linnaeus, 1758: 2019, 2020.  
*Deileptenia riberata* (Clerck, 1759): 2019, 2022.  
*Deltote pygarga* (Hufnagel, 1766): 2019, 2020, 2021, 2022.  
*Denticucullus pygmina* Haworth, 1809: 2019, 2022.  
*Diachrysia chrysitis* (Linnaeus, 1758): 2020, 2021.  
*Diacrisia sannio* (Linnaeus, 1758): 2022.  
*Diaphora mendica* (Clerck, 1759): 2020, 2022.  
*Diarsia mendica* Fabricius, 1775: 2019, 2020, 2021.  
*Diarsia rubi* (Vieweg, 1790): 2019, 2020, 2021, 2022.  
*Diorcytria abietella* (Denis & Schiffermüller) 1775: 2019.  
*Diurnea fagella* (Fabricius, 1787): 2021.  
*Dysstroma citrata* (Linnaeus, 1761): 2022.  
*Dysstroma truncata* (Hufnagel, 1767): 2019, 2020, 2021, 2022.  
*Ecliptopera silaceata* (Denis & Schiffermüller) 1775: 2021, 2022.  
*Ectropis crepuscularia* (Denis & Schiffermüller) 1775: 2019, 2020, 2022.  
*Eilema depressa* Esper, 1786: 2019, 2020, 2021, 2022.  
*Eilema lurideola* Zincken, 1817: 2022.  
*Elachista argentella* Clerck, 1759: 2019, 2021.  
*Electrophaes corylata* (Thunberg, 1792): 2020.

- Emmelina* cf *monodactyla* (Linnaeus, 1758): 2021.  
*Endrosis sarcitrella* Linnaeus, 1758: 2019, 2020.  
*Epiblema* sp.: 2021, 2022.  
*Epinotia tedella* (Clerck, 1759): 2019.  
*Epinotia trigonella* (Linnaeus, 1758): 2019.  
*Epione repandaria* (Hufnagel, 1767): 2021, 2022.  
*Epirrhoe alternata* (Müller, 1764): 2020, 2021, 2022.  
*Epirrita* agg.: 2019, 2022.  
*Epirrita dilutata* (Denis & Schiffermüller) 1775: 2021.  
*Esperia sulphurella* (Fabricius, 1775): 2020, 2021.  
*Eucosma campoliliana* (Denis & Schiffermüller) 1775: 2021.  
*Eucosma cana* (Haworth, 1811): 2019, 2021, 2022.  
*Eucosma hohenwartiana* (Denis & Schiffermüller) 1775: 2019, 2021.  
*Eudonia lacustrata* Panzer, 1804: 2019, 2020, 2021, 2022.  
*Eudonia mercurella* Linnaeus, 1758: 2019, 2020, 2021, 2022.  
*Eudonia truncicolella* Stainton, 1849: 2019, 2022.  
*Eulithis populata* (Linnaeus, 1758): 2019, 2021, 2022.  
*Eulithis pyraliata* (Denis & Schiffermüller) 1775: 2021.  
*Euphyia unangulata* (Haworth, 1809): 2019, 2020, 2022.  
*Eupithecia abbreviata* Stephens, 1831: 2019, 2021.  
*Eupithecia* cf *abbreviata* Stephens, 1831: 2021.  
*Eupithecia pulchellata* Stephens, 1831: 2019, 2021, 2022.  
*Eupithecia subfuscata* (Haworth, 1809): 2021, 2022.  
*Eupithecia virgaureata* Doubleday, 1861: 2022.  
*Eupithecia vulgata* (Haworth, 1809): 2019, 2020, 2021, 2022.  
*Evergestis pallidata* Hufnagel, 1767: 2019, 2021, 2022.  
*Falcaria lacertinaria* (Linnaeus, 1758): 2022.  
*Geometra papilionaria* (Linnaeus, 1758): 2019.  
*Glyphipterix* sp.: 2020, 2021.  
*Glyphipterix thrasonella* Scopoli, 1763: 2019, 2020, 2021, 2022.  
*Gymnoscelis rufifasciata* (Haworth, 1809): 2019, 2020, 2021, 2022.  
*Habrosyne pyritoides* Hufnagel, 1767: 2022.  
*Helotropha leucostigma* Hübner, 1808: 2019.  
*Hemithea aestivaria* (Hübner, 1799): 2022.  
*Hepialus humuli* (Linnaeus, 1758): 2022.  
*Hofmannophila pseudospretella* Stainton, 1849: 2019, 2020, 2022.

- Hoplodrina alsines* Brahm, 1791: 2019, 2022.  
*Hydraecia micacea* Esper, 1789: 2018, 2019, 2022.  
*Hydriomena furcata* (Thunberg, 1784): 2020, 2021, 2022.  
*Hydriomena impluviata* (Denis & Schiffermüller) 1775: 2022.  
*Hydriomena ruberata* (Freyer, 1831): 2019.  
*Hypena crassalis* (Fabricius, 1787): 2022.  
*Hypena proboscidalis* (Linnaeus, 1758): 2018, 2019, 2021, 2022.  
*Idaea aversata* (Linnaeus, 1758): 2020, 2022.  
*Idaea aversata* f. *remutata* (Linnaeus, 1758): 2019.  
*Idaea biselata* (Hufnagel, 1767): 2019, 2020, 2021, 2022.  
*Idaea biselata* (Hufnagel, 1767) var. *melanotica* Haver: 2022.  
*Jodis lactearia* (Linnaeus, 1758): 2022.  
*Korscheltellus fusconebulosa* De Geer, 1778: 2019, 2020, 2021, 2022.  
*Lacanobia thalassina* Hufnagel, 1766: 2022.  
*Lampronia luzella* (Hübner, 1817): 2022.  
*Lampropteryx suffumata* (Denis & Schiffermüller) 1775: 2019, 2020, 2021, 2022.  
*Lasiocampa quercus* Linnaeus, 1758: 2022.  
*Lomaspilis marginata* (Linnaeus, 1758): 2019, 2020, 2022.  
*Lomographa bimaculata* (Fabricius, 1775): 2021, 2022.  
*Lycophotia porphyrea* (Denis & Schiffermüller) 1775: 2022.  
*Macaria liturata* (Clerck, 1759): 2022.  
*Macroglossum stellatarum* Linnaeus, 1758: 2019, 2021, 2022.  
*Mamestra brassicae* Linnaeus, 1758: 2022.  
*Marcrothylacia rubi* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.  
*Mesapamea secalis* (Linnaeus, 1758) agg.: 2019, 2020, 2021, 2022.  
*Mesoleuca albicillata* (Linnaeus, 1758): 2019, 2020, 2021, 2022.  
*Micropterix aureatella* (Scopoli, 1763): 2018, 2019.  
*Micropterix calthella* (Linnaeus, 1761): 2019, 2020, 2021, 2022.  
*Mompha lacteella* (Stephens, 1834): 2020.  
*Mompha locupletella* (Denis & Schiffermüller) 1775: 2018.  
*Mompha propinquella* (Stainton, 1851): 2020.  
*Mormo maura* (Linnaeus, 1758): 2021.  
*Mythimna ferrago* Fabricius, 1787: 2022.  
*Mythimna impura* Hübner, 1808: 2019, 2020, 2021, 2022.  
*Nematopogon schwarziellus* Zeller, 1839 / *N. swammerdamella* (Linnaeus, 1758): 2019.  
*Noctua comes* Hübner, 1813: 2018, 2019, 2020, 2021, 2022.

- Noctua janthe* Borkhausen, 1792: 2020, 2022.  
*Noctua pronuba* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.  
*Nola confusalis* (Herrich-Schäffer, 1847): 2020.  
*Notocelia uddmanniana* (Linnaeus, 1758): 2022.  
*Ochropleura plecta* Linnaeus, 1761: 2019, 2020, 2021, 2022.  
*Odontopera bidentata* (Clerck, 1759): 2019, 2020, 2021, 2022.  
*Oligia fasciuncula* (Haworth, 1809): 2019, 2020, 2021, 2022.  
*Oligia strigilis* (Linnaeus, 1758) agg.: 2022.  
*Operophtera brumata* (Linnaeus, 1758): 2019, 2020, 2021, 2022.  
*Opisthograptis luteolata* (Linnaeus, 1758): 2019, 2020, 2022.  
*Orgyia antiqua* (Linnaeus, 1758): 2018, 2021.  
*Orthonama vittata* Borkhausen, 1794: 2019, 2020, 2021.  
*Orthosia cerasi* Fabricius, 1775: 2019, 2020, 2021.  
*Orthosia gothica* Linnaeus, 1758: 2020.  
*Orthosia incerta* Hufnagel, 1766: 2020.  
*Orthosia munda* (Denis & Schiffermüller, 1775): 2020.  
*Orthotaenia undulana* (Denis & Schiffermüller) 1775: 2019.  
*Pasiphila rectangularata* (Linnaeus, 1758): 2022.  
*Peridroma saucia* Hübner, 1808: 2019, 2022.  
*Petrophora chlorosata* (Scopoli, 1763): 2019, 2020, 2021, 2022.  
*Phalera bucephala* Linnaeus, 1758: 2018, 2019.  
*Phigalia pilosaria* (Denis & Schiffermüller) 1775: 2020.  
*Phlogophora meticulosa* (Linnaeus, 1758): 2018, 2020, 2021, 2022.  
*Phragmatobia fuliginosa* Linnaeus, 1758: 2019, 2022.  
*Phymatopus hecta* (Linnaeus, 1758): 2022.  
*Plagodis pulveraria* (Linnaeus, 1758): 2022.  
*Platyptilia isodactylus* (Zeller, 1852): 2022.  
*Pleuroptya ruralis* Scopoli, 1763: 2019, 2022.  
*Plusia festucae* (Linnaeus, 1758): 2021.  
*Plutella xylostella* (Linnaeus, 1767): 2019.  
*Pseudoterpna pruinata* (Hufnagel, 1767): 2021, 2022.  
*Pterophorus pentadactyla* (Linnaeus, 1758): 2019, 2022.  
*Rhigognostis incarnatella* (Steudel, 1873): 2019.  
*Rivula sericealis* (Scopoli, 1763): 2019, 2020, 2021, 2022.  
*Saturnia pavonia* Linnaeus, 1758: 2021.  
*Scoliopteryx libatrix* Linnaeus, 1758: 2022.

- Scoparia ambigualis* Treitschke, 1829: 2019, 2020, 2021, 2022.  
*Selenia dentaria* (Fabricius, 1775): 2021.  
*Spilosoma lubricipeda* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.  
*Spilosoma luteum* (Hufnagel, 1766): 2019, 2020, 2021, 2022.  
*Stigmella aurella* (Fabricius, 1775): 2018, 2022.  
*Syndemis musculana* (Hübner, 1799): 2019.  
*Thera britannica* (Turner, 1925): 2019, 2020, 2021, 2022.  
*Thyatira batis* (Linnaeus, 1758): 2019, 2020, 2021.  
*Trichopteryx carpinata* (Borkhausen, 1794): 2022.  
*Tyria jacobaeae* Linnaeus, 1758: 2018.  
*Udea ferrugalis* Hübner, 1796: 2019.  
*Udea lutealis* Hübner, 1809: 2018, 2019, 2021, 2022.  
*Udea prunalis* (Denis & Schiffermüller) 1775: 2020.  
*Xanthia togata* (Esper, 1788): 2021.  
*Xanthorhoe designata* (Hufnagel, 1767): 2019, 2020, 2021, 2022.  
*Xanthorhoe ferrugata* Prout, 1937: 2019, 2020, 2021, 2022.  
*Xanthorhoe fluctuata* (Linnaeus, 1758): 2019, 2020, 2021, 2022.  
*Xanthorhoe montanata* (Denis & Schiffermüller) 1775: 2018, 2019, 2020, 2021, 2022.  
*Xestia c-nigrum* (Linnaeus, 1758): 2019, 2022.  
*Xestia sexstrigata* Haworth, 1809: 2021.  
*Xestia* sp. (caterpillar): 2021.  
*Xestia xanthographa* (Denis & Schiffermüller, 1775): 2019, 2020, 2021, 2022.  
*Xestia xanthographa* / *X. sexstrigata* Haworth, 1809: 2019.  
*Zeiraphera ratzeburgiana* (Saxesen, 1840): 2019.  
*Zygaena filipendula* (Linnaeus, 1758): 2020, 2022.

#### **Neuroptera - Green and brown lacewings**

- Chrysoperla carnea* (Stephens, 1836): 2020, 2022.  
*Hemerobius* cf *lutescens* Fabricius, 1793: 2019.  
*Hemerobius* cf *humulinus* Linnaeus, 1758 (versus *H. stigma* Stephens, 1836): 2021.

#### **Odonata - Damselflies and dragonflies**

- Libellula* cf *quadrinaculata* Linnaeus, 1758: 2019.  
*Pyrrhosoma nymphula* Sulzer, 1776: 2019, 2020, 2021, 2022.  
*Sympetrum* cf *striolatum* Charpentier, 1840: 2021, 2022.

**Orthoptera: Acrididae - Grasshoppers**

*Chorthippus cf biguttulus* (Linnaeus, 1758): 2018.

*Chorthippus brunneus* (Thunberg, 1815): 2018, 2019, 2020, 2021 , 2022.

*Gomphocerippus rufus* (Linnaeus, 1758): 2018.

*Myrmeleotettix maculatus* (Thunberg, 1815): 2019.

**Plecoptera - Stoneflies**

*Isoperla grammatica* (Poda, 1761): 2020.

**Psocodea - Barkfly**

*Chilenocaecilius ornatipennis* (Blanchard, 1851): 2020.

**Thysanura - Silverfish**

*Lepisma saccharina* Linnaeus, 1758: 2019, 2021.

**Trichoptera- Caddisflies**

*Agrypnia obsoleta* (Hagen, 1864): 2019, 2020.

*Beraea pullata* (Curtis, 1834): 2020.

*Chaetopteryx villosa* (Fabricius, 1798): 2020, 2021.

*Drusus annulatus* (Stephens, 1837): 2020, 2022.

*Halesus digitatus* (Schrank, 1781): 2019, 2020, 2021, 2022.

*Halesus radiatus* (Curtis, 1834): 2020, 2021, 2022.

*Limnephilus auricula* Curtis, 1834: 2021.

*Limnephilus centralis* Curtis, 1834: 2019, 2020, 2022.

*Limnephilus incisus* Curtis, 1834: 2019.

*Limnephilus luridus* Curtis, 1834: 2020, 2022.

*Limnephilus cf sparsus* Curtis, 1834: 2019.

*Limnephilus sparsus* Curtis, 1834: 2020, 2021, 2022.

*Lype phaeopa* (Stephens, 1836): 2020.

*Lype reducta* (Hagen, 1868): 2020.

*Micropterna lateralis* (Stephens, 1837): 2020, 2021, 2022.

*Micropterna sequax* McLachlan, 1875: 2020, 2022.

*Neureclipsis bimaculata* (Linnaeus, 1758): 2019.

*Phrygaena bipunctata* Retzius, 1783 / *P. grandis* Linnaeus, 1758: 2020.

*Plectrocnemia conspersa* (Curtis, 1834): 2020, 2021, 2022.

*Polycentropus irroratus* Curtis, 1835: 2019.



*Potamophylax cingulatus* (Stephens, 1837): 2020, 2021, 2022.

*Potamophylax latipennis* (Curtis, 1834): 2021, 2022.

*Rhyacophila dorsalis* (Curtis, 1834): 2021.

*Rhyacophila munda* McLachlan, 1862: 2022.

*Stenophylax permistus* McLachlan, 1895: 2019, 2020, 2022.

*Stenophylax* sp./*Micropterna* sp.: 2020.

## **Mollusca**

### **Slugs**

*Arion ater* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

*Arion ater* brown form: 2019.

*Arion distinctus* Mabilie, 1868: 2018, 2021.

*Arion fuscus* (O.F. Müller, 1774) / *A. subfuscus* (Draparnaud, 1805): 2018.

*Arion hortensis* A. Férussac, 1819 agg.: 2020, 2022.

*Arion* cf *silvaticus* Lohmander, 1937: 2021.

*Arion subfuscus* (Draparnaud, 1805): 2019, 2020, 2021, 2022.

*Arion* sp.: 2018.

*Deroceras invadens* Reise, Hutchinson, Schunack & Schlitt, 2011: 2018, 2019, 2022.

*Deroceras reticulatum* (O F. Müller, 1774): 2018, 2019, 2020, 2021, 2022.

*Lehmannia marginata* (O.F. Müller, 1774): 2019, 2022.

*Lehmannia valentiana* (A. Férussac, 1822): 2018, 2019, 2020, 2021, 2022.

### **Snails**

*Aegopinella nitidula* (Draparnaud, 1805): 2019.

*Ashfordia granulata* (Alder, 1830): 2019.

*Cepea hortensis* (O.F. Müller, 1774): 2019, 2020, 2021, 2022.

*Clausilia bidentata* (Strøm, 1765): 2019, 2020, 2021, 2022.

*Cornu aspersum* (O.F. Müller, 1774): 2018, 2019, 2020, 2021, 2022.

*Discus rotundatus* (O.F. Müller, 1774): 2021.

Lymnaeidae sp.: 2020.

*Monacha carthusiana* (O.F. Müller, 1774): 2020.

*Oxychilus alliarius* (J.S. Miller, 1822): 2018, 2019.

*Oxychilus draparnaudi* (H. Beck, 1837): 2019, 2020, 2021, 2022.

*Potamopyrgus antipodarum* (J.E. Gray, 1843): 2019.

*Radix balthica* (Linnaeus, 1758): 2019, 2022.

*Succinella oblonga* (Draparnaud, 1801): 2018.

*Trochulus* sp.: 2020, 2021.

*Trochulus striolatus* (C. Pfeiffer, 1828): 2018, 2019, 2021.

### **Chordata**

#### **Amphibia - Amphibians**

*Lissotriton vulgaris* (Linnaeus, 1758): 2021

*Rana temporaria* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.

#### **Aves - Birds**

*Accipiter nisus* (Linnaeus, 1758): 2020, 2021, 2022.

*Aegithalos caudatus* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

*Anthus pratensis* (Linnaeus, 1758): 2019 , 2020, 2021, 2022.

*Ardea cinerea* Linnaeus, 1758: 2019, 2020, 2021, 2022.

*Buteo buteo* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

*Carduelis cannabina* (Linnaeus, 1758): 2021.

*Carduelis carduelis* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

*Carduelis spinus* (Linnaeus, 1758): 2020 , 2021, 2022.

*Cinclus cinclus* (Linnaeus, 1758): 2018, 2019, 2020.

*Circus cyaneus* (Linnaeus, 1766): 2018, 2019, 2020, 2021.

*Columba palumbus* Linnaeus, 1758: 2018, 2019 , 2020, 2021, 2022.

*Corvus corax* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.

*Corvus corone cornix* Linnaeus, 1758: 2018, 2019, 2020. 2021, 2022.

*Corvus frugilegus* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.

*Corvus monedula* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.

*Cuculus canorus* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.

*Cyanistes caeruleus* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

*Delichon urbicum* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

*Erithacus rubecula* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

*Falco subbuteo* Linnaeus, 1758: 2022.

*Falco tinnunculus* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.

*Fringilla coelebs* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.

*Garrulus glandarius* (Linnaeus, 1758): 2019, 2020, 2021, 2022.

*Hirundo rustica* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.

*Larus argentatus* Pontoppidan, 1763: 2018, 2019, 2020.

*Larus fuscus* Linnaeus, 1758 s.l.: 2020, 2021, 2022.

*Loxia curvirostra* Linnaeus, 1758: 2020, 2022.

*Motacilla alba* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.  
*Motacilla alba yarrellii* Gould, 1837: 2018, 2019, 2020.  
*Parus ater* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.  
*Parus major* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.  
*Passer domesticus* (Linnaeus, 1758): 2022.  
*Phasianus colchicus* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.  
*Phylloscopus collybita* (Vieillot, 1817): 2019, 2020, 2021, 2022.  
*Phylloscopus trochilus* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.  
*Pica pica* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.  
*Prunella modularis* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.  
*Pyrrhula pyrrhula* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.  
*Regulus regulus* (Linnaeus, 1758): 2020, 2022.  
*Scolopax rusticola* Linnaeus, 1758: 2020, 2021, 2022.  
*Sturnus vulgaris* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.  
*Troglodytes troglodytes* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.  
*Turdus merula* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.  
*Turdus philomelos* C. L. Brehm, 1831: 2018, 2019, 2020, 2021, 2022.  
*Turdus pilaris* Linnaeus, 1758: 2018, 2019, 2020, 2021.  
*Turdus viscivorus* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.  
*Tyto alba* (Scopoli, 1769): 2020.

### **Mammalia**

#### **Chiroptera - Bats**

*Pipistrellus pipistrellus* (Schreber, 1774): 2018, 2019, 2020, 2021, 2022.  
*Pipistrellus cf pygmaeus* (Leach, 1825): 2021.

#### **Land mammals**

*Apodemus sylvaticus*: 2018, 2019, 2020, 2021, 2022.  
*Crocidura russula* (Hermann, 1780): 2018, 2019, 2020, 2021, 2022.  
*Dama dama* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.  
*Lepus timidus hibernicus* Bell, 1837: 2018, 2019, 2020, 2021, 2022.  
*Meles meles* (Linnaeus, 1758): 2018.  
*Mustela erminea hibernica* (Thomas & Barrett-Hamilton, 1895): 2019, 2021, 2022.  
*Myodes glareolus* (Schreber, 1780): 2020, 2021, 2022.  
*Oryctolagus cuniculus* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.  
*Sciurus vulgaris* Linnaeus, 1758: 2018, 2019, 2020, 2021, 2022.

*Sorex minutus* Linnaeus, 1766: 2021.

*Vulpes vulpes* (Linnaeus, 1758): 2018, 2019, 2020, 2021, 2022.

## **FLORAL LISTS**

### **Plantae sensu lato**

#### **Cyanophyta - Blue-green algae**

*Nostoc commune* Vaucher ex Bornet & Flahault, 1818: 2019, 2020, 2021, 2022.

### **Eumycota - Funguses**

*Amanita muscaria* (L.) Lam.: 2018, 2019.

*Amanita rubescens* Pers.: 2022.

*Antrodia* cf *vaillantii* (DC.) Ryvarden: 2018.

*Ascocoryne sarcoides* (Jacq.) J.W.Groves & D.E.Wilson: 2021, 2022.

*Boletus edulis* Bull.: 2018, 2019, 2020, 2021, 2022.

*Calvatia gigantea* (Batsch) Lloyd: 2019.

*Cantharellus cibarius* Fr.: 2022.

*Claviceps purpurea* (Fr.) Tul.: 2021.

*Clitocybe flaccida* (Sowerby) P.Kumm.: 2018, 2019, 2020, 2021, 2022.

*Clitocybe nebularis* (Batsch) P.Kumm.: 2018, 2019, 2020, 2021, 2022.

*Coprinopsis atramentaria* (Bull.) Redhead, Vilgalys & Moncalvo: 2018, 2019.

*Coprinus comatus* (O.F. Müller) Pers.: 2018, 2019, 2020, 2021, 2022.

*Dacrymyces* cf *chrysospermus* Berk. & M.A. Curtis: 2018, 2019, 2020.

*Helvella lacunosa* Afzel.: 2018, 2019, 2020, 2021, 2022.

*Hygrophoropsis aurantiaca* (Wulfen) Maire: 2018, 2019, 2020.

*Hygrophorus pudorinus* (Fr.) Fr.: 2018, 2019, 2020.

*Hypholoma fasciculare* (Huds.) P. Kumm.: 2018, 2019, 2020.

*Imleria badia* (Fr.) Vizzini: 2018, 2019, 2020, 2021, 2022.

*Lactarius deterrimus* Gröger: 2019, 2020, 2021, 2022.

*Lactarius* sp.: 2018, 2019, 2020.

*Lepista nuda* (Bull.) Cooke: 2020, 2021, 2022.

*Lycoperdon molle* Pers.: 2018, 2019, 2020.

*Lycoperdon nigrescens* Pers.: 2018, 2019, 2020, 2021, 2022.

*Lycoperdon perlatum* Pers.: 2018, 2019, 2020, 2021, 2022.

*Macrotyphula fistulosa* (Holmsk.) R.H.Petersen: 2021.

*Peziza badia* Pers.: 2022.

*Piptoporus betulina* (Bull.) P.Karst.: 2019, 2020, 2021, 2022.

*Polyporus squamosus* Huds.: 2018.

*Ramaria stricta* (Pers.) Quél.: 2022.

*Russula sanguinaria* (Schumach.) Rauschert 2018, 2019, 2020, 2021, 2022.

*Russula* spp.: 2018, 2019, 2020, 2021, 2022.

*Suillus luteus* (L.) Roussel: 2019.

*Tremella mesenterica* Retz. cf: 2019, 2020, 2021, 2022.

*Xylaria hypoxylon* (L.) Grev.: 2021.

### **Parasitic Fungi**

*Entomophthora* sp.: 2018, 2019, 2020, 2021, 2022.

### **Rust and molds**

*Mucor* sp.: 2018, 2019.

*Phragmidium violaceum* (Schultz) Brockm.: 2018.

*Puccinales* sp.: 2020, 2021, 2022.

*Puccinia urticata* (Link) F. Kern: 2019.

### **Lichens**

*Anaptychia ciliaris ciliaris* Körb. ex A.Massal.: 2018, 2019, 2020.

*Cladonia humilis* (With.) J.R.Laundon: 2018, 2019, 2020, 2021, 2022.

Crustose Lichen sp.: 2018, 2019, 2020, 2021, 2022.

*Graphis scripta* (L.) Ach.: 2018, 2019, 2020, 2021, 2022.

*Hypogymnia physodes* (L.) Nyl.: 2018, 2019, 2020.

*Lecanora muralis* (Schreb.) Rabenh.: 2020.

*Lecanora pulicaris* (Pers.) Ach.: 2018.

*Parmotrema crinitum* (Ach.) M.Choisy: 2018.

*Peltigera* sp.: 2018, 2019, 2020, 2021, 2022.

*Ramalina calicaris* (L.) Röhl.: 2018, 2019, 2020.

*Xanthoria parietina* (L.) Th.Fr.: 2018, 2019, 2020, 2021, 2022.

### **Bryophyta - Mosses**

*Atrichum undulatum* Palisot de Beauvois, 1805: 2022.

*Bryum* sp.: 2018, 2019, 2020, 2021, 2022.

*Bryum* cf *capillare* Hedw.: 2018, 2019, 2020, 2021.

*Calliergonella cuspidatus* Loeske, 1911: 2018.

*Campylopus flexuosus* Bridel, 1819: 2019, 2020, 2021.

- Campylopus introflexus* Bridel, 1819: 2018, 2021, 2022.  
*Dicranum majus* Turner, 1804: 2022.  
*Enthostodon* cf *obtusus* Lindberg, 1865 vs *E. fascicularis* (Hedw.) Müll.Hal.: 2019.  
*Eurhynchium striatum* W.P.Schimper, 1856: 2022.  
*Hylocomium splendens* W.P.Schimper, 1852: 2022.  
*Hypnum andoi* A.J.E.Smith, 1981: 2021.  
*Hypnum cupressiforme* Hedwig, 1801: 2018, 2019, 2020, 2021.  
*Hypnum jutlandicum* Holmen & Warncke, 1969: 2018, 2019, 2020, 2021, 2022.  
*Isothecium myosuroides* Bridel, 1827: 2018, 2022.  
*Kindbergia praelonga* (Hedw.) Ochyra: 2022.  
*Lophocoela bidentata* (L.) Dumort.: 2022.  
*Orthotrichum* cf *affine* Schrader ex Bridel, 1801: 2021.  
*Oxyrrhynchium hians* (Hedw.) Loeske: 2022.  
*Plagiothecium undulatum* (Hedw.) Schimp.: 2022.  
*Pleurozium schreberi* Mitten, 1869: 2018.  
*Pogonatum aloides* Palisot de Beauvois, 1805: 2022.  
*Polytrichum commune* Hedwig, 1801: 2018, 2019, 2020, 2021, 2022.  
*Polytrichum commune* versus *P. formosum* Hedw.: 2019, 2021.  
*Polytrichum formosum* Hedw.: 2018.  
*Pseudoscleropodium purum* Fleischer, 1925: 2018.  
*Rhytidiadelphus loreus* Warnstorf, 1906: 2022.  
*Rhytidiadelphus squarrosus* Warnstorf, 1906: 2018, 2022.  
*Rhytidiadelphus triquetus* Warnstorf, 1906: 2018, 2021.  
*Sphagnum* cf *palustre* L., 1753: 2018.  
*Sphagnum denticulatum* Bridel, 1826: 2018, 2022.  
*Sphagnum fallax* Klinggräff, 1881: 2022.  
*Sphagnum papillosum* Lindberg, 1872 versus *S. palustre*: 2021.  
*Sphagnum rubellum* Wilson, 1855: 2018, 2019, 2020.  
*Sphagnum* sp.: 2018, 2019, 2020, 2021, 2022.  
*Thuidium tamariscium* W.P.Schimper, 1852: 2018, 2019, 2020, 2021, 2022.  
*Tortula muralis* Hedwig, 1801: 2020, 2021, 2022.

### **Marchantiophyta - Liverworts**

- Marchantia polymorpha* L.: 2022.  
*Marchantia polymorpha* cf subsp. *ruderalis* Bischl. & Boissel.-Dub.: 2018, 2019, 2020, 2021.

**Pterphyta - Ferns**

*Asplenium scolopendrium* L.: 2018, 2019, 2020, 2021, 2022.

*Blechnum spicant* (L.) Roth: 2018, 2019, 2020, 2021, 2022.

*Dryopteris affinis* agg.: 2018, 2019, 2020, 2021, 2022.

*Polypodium vulgare* agg.: 2018, 2019, 2020, 2021, 2022.

**Tracheophyta - Flowering plants (Angiosperms)**

*Abies procera* Rehder: 2018, 2019, 2020, 2021, 2022.

*Acer pseudoplatanus* L.: 2018, 2019, 2020, 2021, 2022.

*Achillea millefolium* L.: 2018, 2019, 2020, 2021, 2022.

*Ajuga reptans* L.: 2018, 2019, 2020, 2021, 2022.

*Alnus glutinosa* (L.) Gaertn.: 2018, 2019, 2020, 2021, 2022.

*Anagallis arvensis* L.: 2018, 2019, 2020, 2021.

*Angelica sylvestris* L.: 2018, 2019, 2020, 2021, 2022.

*Anthriscus sylvestris* (L.) Hoffm.: 2018, 2019, 2020, 2021, 2022.

*Atriplex patula* L.: 2018, 2019, 2020, 2021.

*Barbarea intermedia* Boreau: 2021.

*Bellis perennis* L.: 2018, 2019, 2020, 2021, 2022.

*Betula pendula* Roth: 2018, 2019, 2020, 2021, 2022.

*Brassica rapa* L.: 2019, 2021.

*Callitriche stagnalis* Scop.: 2018, 2019, 2020, 2021, 2022.

*Calluna vulgaris* (L.) Hull: 2018, 2019, 2020, 2021, 2022.

*Cardamine hirsuta* L.: 2018, 2019, 2020, 2021, 2022.

*Cardamine pratensis* L.: 2018, 2019, 2020, 2021, 2022.

*Centaurea nigra* L.: 2018, 2019, 2020, 2021, 2022.

*Centaureum erythraea* Rafn: 2022.

*Cerastium fontanum* Baumg.: 2019, 2020, 2021.

*Chamaenerion angustifolium* (L.) Scop.: 2018, 2019, 2020, 2021, 2022.

*Cirsium arvense* (L.) Scop.: 2018, 2019, 2020, 2021, 2022.

*Cirsium palustre* (L.) Scop.: 2018, 2019, 2020, 2021, 2022.

*Cirsium vulgare* (Savi) Ten.: 2018, 2019, 2020, 2021, 2022.

*Crataegus monogyna* Jacq.: 2018, 2019, 2020, 2021, 2022.

*Crepis capillaris* (L.) Wallr.: 2022.

*Crocoshia x crocosmiiflora* (Lemoine) N.E. Br.: 2020, 2021, 2022.

*Cymbalaria muralis* P. Gaertn., B. Mey. & Scherb.: 2019: 2021.

*Cytisus scoparius* (L.) Link: 2018, 2019, 2020, 2021, 2022.

*Dactylorhiza maculata* (L.) Soó: 2021.  
*Digitalis purpurea* L.: 2018, 2019, 2020, 2021, 2022.  
*Epilobium hirsutum* L.: 2021, 2022.  
*Epilobium obscurum* Schreb.: 2021.  
*Epilobium parviflorum* Schreb.: 2018, 2019, 2020, 2021, 2022.  
*Erica cinerea* L.: 2018, 2019, 2020, 2021, 2022.  
*Euphrasia nemorosa* (Pers.) Wallr.: 2018, 2019, 2020, 2021, 2022.  
*Fagus sylvatica* L.: 2018, 2019, 2020, 2021, 2022.  
*Ficaria verna* Huds.: 2018, 2019, 2020, 2021, 2022.  
*Filipendula ulmaria* (L.) Maxim.: 2022.  
*Fraxinus excelsior* L.: 2018, 2019, 2020, 2021, 2022.  
*Fumaria muralis* Sond. ex W.D.J. Koch: 2019.  
*Fuchsia magellanica* Lam.: 2018, 2019, 2020, 2021, 2022.  
*Galium aparine* L.: 2021, 2022.  
*Galium palustre* L.: 2018, 2019, 2020, 2021.  
*Galium saxatile* L.: 2022.  
*Geranium robertianum* L.: 2018, 2019, 2020, 2022.  
*Gnaphalium uliginosum* L.: 2022.  
*Hedera hibernica* (G. Kirch.) Bean: 2018, 2019, 2020, 2021, 2022.  
*Heracleum sphondylium* L.: 2018, 2019, 2020, 2021, 2022.  
*Hyacinthoides x massartiana* Geerinck: 2018, 2019, 2020, 2021, 2022.  
*Hypericum tetrapterum* Fr.: 2019, 2020, 2021, 2022.  
*Hypericum elodes* L.: 2018.  
*Hypericum perforatum* L.: 2018, 2019, 2020, 2021, 2022.  
*Hypochaeris radicata* L.: 2021.  
*Ilex aquifolium* L.: 2018, 2019, 2020, 2021, 2022.  
*Jacobaea aquatica* (Hill) P. Gaertn., B. Mey. & Scherb.: 2021.  
*Jacobaea vulgaris* Gaertn.: 2018, 2019, 2020, 2021, 2022.  
*Larix* sp.: 2018, 2019, 2020, 2021, 2022.  
*Leontodon autumnalis* (L.) Moench: 2018, 2019, 2020, 2021, 2022.  
*Leontodon saxatilis* Lam.: 2021, 2022.  
*Leucanthemum vulgare* Lam.: 2022.  
*Ligustrum vulgare* L.: 2018, 2019, 2020, 2021, 2022.  
*Linum catharticum* L.: 2018, 2019, 2020, 2021, 2022.  
*Lotus corniculatus* L.: 2018, 2019, 2020, 2021, 2022.  
*Lotus pedunculatus* Cav.: 2018, 2019, 2020, 2021.



*Matricaria discoidea* DC.: 2018, 2019, 2020, 2021, 2022.  
*Mentha aquatica* L.: 2018, 2019, 2020, 2021, 2022.  
*Myosotis laxa* Lehm.: 2018, 2019, 2020, 2021, 2022.  
*Narcissus pseudonarcissus* L. agg.: 2018, 2019, 2020, 2021, 2022.  
*Odontites vernus* (Bellardi) Dumort.: 2021.  
*Pedicularis sylvatica* L.: 2021.  
*Persicaria maculosa* Gray: 2018, 2019, 2020, 2021, 2022.  
*Picea sitchensis* (Bong.) Carrière: 2018, 2019, 2020, 2021, 2022.  
*Pilosella officinarum* F.W. Schultz & Sch. Bip.: 2022.  
*Pinus sylvestris* L.: 2018, 2019, 2020, 2021, 2022.  
*Plantago lanceolata* L.: 2018, 2019, 2020, 2021, 2022.  
*Plantago major* L.: 2018, 2019, 2020, 2021, 2022.  
*Potentilla anglica* Laichard.: 2018, 2019, 2020, 2021, 2022.  
*Potentilla erecta* (L.) Raeusch.: 2018, 2019, 2020, 2021, 2022.  
*Prunella vulgaris* L.: 2018, 2019, 2020, 2021, 2022.  
*Prunus laurocerasus* L.: 2018, 2019, 2020, 2021, 2022.  
*Quercus robur* L.: 2018, 2019, 2020, 2021, 2022.  
*Ranunculus flammula* L.: 2018, 2019, 2020, 2021, 2022.  
*Ranunculus omiophyllus* Ten.: 2018, 2019, 2020, 2021, 2022.  
*Ranunculus repens* L.: 2018, 2019, 2020, 2021, 2022.  
*Rhododendron ponticum* L.: 2018, 2019, 2020, 2021, 2022.  
*Rubus* spp.: 2018, 2019, 2020, 2021, 2022.  
*Rumex acetosa* L.: 2018, 2019, 2020, 2021, 2022.  
*Rumex acetosella* L.: 2022.  
*Rumex crispus* L.: 2018, 2019, 2020, 2021, 2022.  
*Rumex obtusifolius* L.: 2018, 2019, 2020, 2021, 2022.  
*Sagina procumbens* L.: 2018, 2019, 2020, 2021, 2022.  
*Salix* sp.: 2018, 2019, 2020, 2021, 2022.  
*Scrophularia auriculata* L.: 2021, 2022.  
*Scrophularia nodosa* L.: 2021, 2022.  
*Senecio squalidus* L.: 2021.  
*Senecio vulgaris* L.: 2022.  
*Solidago virgaurea* L.: 2018, 2019, 2020, 2021, 2022.  
*Sonchus asper* (L.) Hill: 2018, 2019, 2020, 2021, 2022.  
*Sonchus oleraceus* L.: 2018, 2019, 2020, 2021.  
*Sorbus aucuparia* L.: 2018, 2019, 2020, 2021, 2022.

*Stachys palustris* L.: 2018, 2019, 2020, 2021, 2022.  
*Stachys sylvatica* L.: 2018, 2019, 2020, 2021, 2022.  
*Stellaria graminea* L.: 2018, 2019, 2020, 2021, 2022.  
*Stellaria media* (L.) Vill.: 2018, 2019, 2020, 2021.  
*Succisa pratensis* Moench: 2018, 2019, 2020, 2021, 2022.  
*Taraxacum officinale* agg.: 2018, 2019, 2020, 2021, 2022.  
*Trifolium dubium* Sibth.: 2018, 2019, 2020, 2021, 2022.  
*Trifolium pratense* L.: 2018, 2019, 2020, 2021, 2022.  
*Trifolium repens* L.: 2018, 2019, 2020, 2021, 2022.  
*Tussilago farfara* L.: 2018, 2019, 2020, 2021, 2022.  
*Ulex europaeus* L.: 2018, 2019, 2020, 2021, 2022.  
*Umbilicus rupestris* (Salisb.) Dandy: 2018, 2019, 2020, 2021, 2022.  
*Urtica dioica* L.: 2018, 2019, 2020, 2021, 2022.  
*Vaccinium myrtillus* L.: 2018, 2019, 2020, 2021, 2022.  
*Veronica arvensis* L.: 2018, 2019, 2020, 2021, 2022.  
*Veronica beccabunga* L.: 2021.  
*Veronica chamaedrys* L.: 2019, 2020, 2021, 2022.  
*Veronica officinalis* L.: 2022.  
*Veronica persica* Poir.: 2018, 2019, 2020, 2021.  
*Veronica serpyllifolia* L.: 2018, 2019, 2020, 2021.  
*Vicia cracca* L.: 2018, 2019, 2020, 2021, 2022.  
*Vicia sepium* L.: 2018, 2019, 2020, 2021, 2022.  
*Viola riviniana* Rchb.: 2018, 2019, 2020, 2021, 2022.

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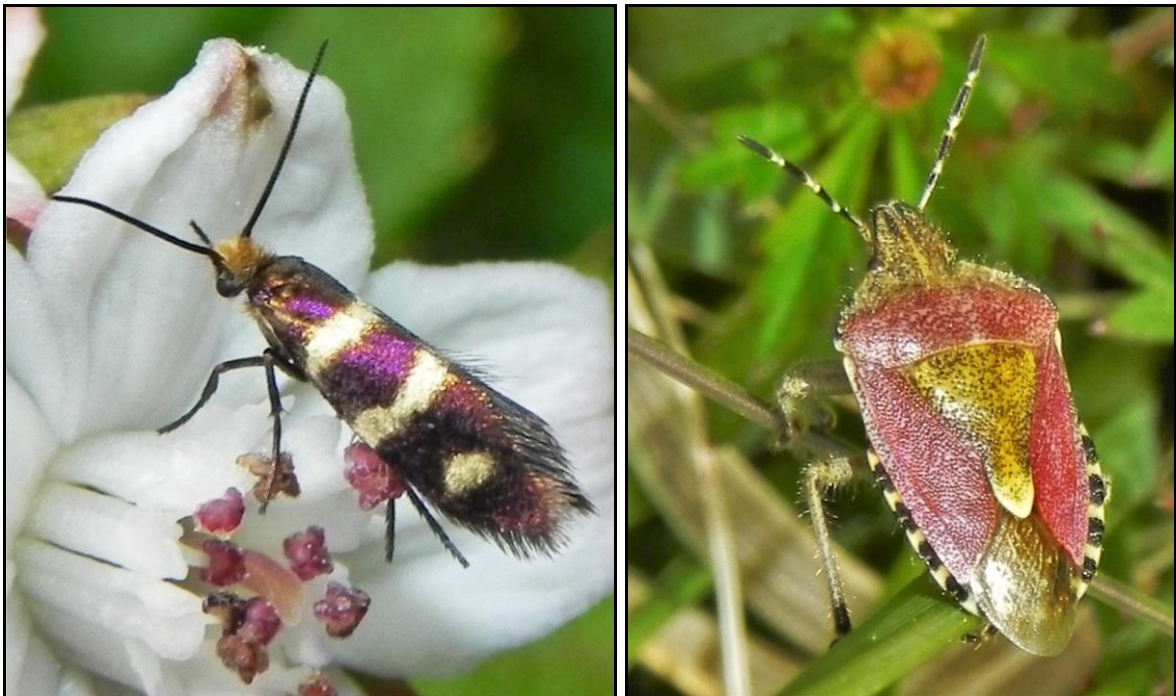
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**FIGURE 1.** The location of the study site.



**PLATE 1.** One of the small streams, Ballywilliam. Photograph: Sylvia Voss.



**PLATE 2.** Left: *Micropterix aureatella*, Ballywilliam. Right: *Dolycoris baccarum*, Ballywilliam. Photographs: Sylvia Voss.



**PLATE 3.** Left: *Xylaria hypoxylon* Candlesnuff fungus, Ballywilliam. Right: *Argonemertes dendyi* egg clutch, Ballywilliam. Photographs: Sylvia Voss.



**PLATE 4.** *Cicadella viridis*, Ballywilliam. Photograph: Sylvia Voss.



**PLATE 5.** Left: *Sphagnum rubellum* + *Pleurozium schreberi*, Ballywilliam. Right: *Centaurium erythraea*, Ballywilliam. Photographs: Sylvia Voss.



**PLATE 6.** *Regulus regulus*, Ballywilliam. Photograph: Sylvia Voss.



**PLATE 7.** *Leucozona glaucia*, Ballywilliam. Photograph: Sylvia Voss.



**PLATE 8.** *Enoplognatha ovata*/*E. latimana* var. *redimida*, Ballywilliam. Photograph: Sylvia Voss.