

Supporting Information

Appendix S1: Species list and sequencing success

Species list of German Rhopalocera and Macroheterocera, showing maximum length of sequence recovered from each species, the sample size and the geographic origin for any specimens that were not collected in Germany;

* awaiting analysis;

** species occurring in Germany only as extremely rare migrants, with very few records, or as anthropogenic transports;

mfl maximum fragment length (number of base pairs);

n/a not applicable;

n sample size (number of sequences).

The species in each family are grouped by subfamily and placed in alphabetic order. The Noctuidae are in systematical order. Species names follow the Fauna of Europe database (accessed 2011, with a few updates) while families follow Nieuwerkerken et al. (2011). Species names in bold lack DNA barcode coverage from any region.

Order Lepidoptera / Clade Obtectomera / Superfamily Papilionoidea

Papilionidae

Species	mfl	n	origins	supplementary material (mfl)
<i>Iphiclides podalirius</i> (Linnaeus, 1758)	658	1		
<i>Papilio machaon</i> Linnaeus, 1758	658	2		
<i>Parnassius apollo</i> (Linnaeus, 1758)	658	5		
<i>Parnassius mnemosyne</i> (Linnaeus, 1758)	658	1		
<i>Parnassius phoebus</i> (Fabricius, 1793)	n/a	0	France, Switzerland	(658)
<i>Zerynthia polyxena</i> (Denis & Schiffermüller, 1775)	n/a	0	Romania	(658)

Hesperiidae

Species	mfl	n	origins	supplementary material (mfl)
<i>Hesperia comma</i> (Linnaeus, 1758)	658	4		
<i>Ochlodes sylvanus</i> (Esper, 1777)	658	5		
<i>Thymelicus acteon</i> (Rottemburg, 1775)	658	2		
<i>Thymelicus lineola</i> (Ochsenheimer, 1808)	658	4		
<i>Thymelicus sylvestris</i> (Poda, 1761)	658	4		
<i>Carterocephalus palaemon</i> (Pallas, 1771)	658	3		
<i>Carterocephalus silvicola</i> (Meigen, 1829)	n/a	0	Finland	(658)
<i>Heteropterus morpheus</i> (Pallas, 1771)	n/a	0	Finland*	Romania (658)
<i>Carcharodus alceae</i> (Esper, 1780)	658	1		
<i>Carcharodus floccifera</i> (Zeller, 1847)	n/a	0	Germany*	Italy, Romania (658)
<i>Carcharodus lavatherae</i> (Esper, 1783)	n/a	0	Romania	(658)
<i>Erynnis tages</i> (Linnaeus, 1758)	658	1		
<i>Pyrgus alveus</i> (Hübner, 1803)	658	47		
<i>Pyrgus andromedae</i> (Wallengren, 1853)	658	1		
<i>Pyrgus armoricanus</i> (Oberthür, 1910)	658	2		
<i>Pyrgus cacaliae</i> (Rambur, 1839)	633	1		
<i>Pyrgus carthami</i> (Hübner, 1813)	658	1		
<i>Pyrgus cirsii</i> (Rambur, 1839)	n/a	0	France	(519)
<i>Pyrgus malvae</i> (Linnaeus, 1758)	658	8		
<i>Pyrgus malvoides</i> (Elwes & Edwards, 1897)	n/a	0	Germany*	(/)
<i>Pyrgus onopordi</i> (Rambur, 1839)	n/a	0	Italy, Morocco	(658)
<i>Pyrgus serratulae</i> (Rambur, 1839)	n/a	0	Estonia, Iran	(658)
<i>Pyrgus warrenensis</i> (Verity, 1928)	658	5		
<i>Spialia sertorius</i> (Hoffmannsegg, 1804)	658	3		

Pieridae

Species	mfl	n	origins supplementary material (mfl)
<i>Colias alfacariensis</i> Ribbe, 1905	658	7	
<i>Colias chrysotheme</i> (Esper, 1781)	n/a	0	Romania (658)
<i>Colias croceus</i> (Fourcroy, 1785)	658	2	
<i>Colias hyale</i> (Linnaeus, 1758)	n/a	0	Finland, Romania, Russia (658)
<i>Colias myrmidone</i> (Esper, 1781)	306	1	
<i>Colias palaeno</i> (Linnaeus, 1761)	658	3	
<i>Colias phicomone</i> (Esper, 1780)	658	1	
<i>Gonepteryx rhamni</i> (Linnaeus, 1758)	658	3	
<i>Leptidea reali</i> Reissinger, 1990	658	4	
<i>Leptidea sinapis</i> (Linnaeus, 1758)	658	2	
<i>Anthocharis cardamines</i> (Linnaeus, 1758)	658	4	
<i>Aporia crataegi</i> (Linnaeus, 1758)	658	3	
<i>Pieris brassicae</i> (Linnaeus, 1758)	658	4	
<i>Pieris bryoniae</i> (Hübner, 1806)	658	2	
<i>Pieris manni</i> (Mayer, 1851)	n/a	0	Italy, France, etc. (658)
<i>Pieris napi</i> (Linnaeus, 1758)	658	1	
<i>Pieris rapae</i> (Linnaeus, 1758)	658	2	
<i>Pontia callidice</i> (Hübner, 1800)	n/a	0	Kirgisia, Tadjikistan (658)
<i>Pontia daplidice</i> (Linnaeus, 1758)	n/a	0	Spain, Cyprus, Israel (658)
<i>Pontia edusa</i> (Fabricius, 1777)	658	1	

Riodinidae

Species	mfl	n	origins supplementary material (mfl)
<i>Hamearis lucina</i> (Linnaeus, 1758)	658	1	

Lycaenidae

Species	mfl	n	origins supplementary material (mfl)
<i>Callophrys rubi</i> (Linnaeus, 1758)	658	2	
<i>Favonius quercus</i> (Linnaeus, 1758)	658	3	
<i>Satyrium acaciae</i> (Fabricius, 1787)	658	1	
<i>Satyrium ilicis</i> (Esper, 1779)	n/a	0	Italy, Romania (658)
<i>Satyrium pruni</i> (Linnaeus, 1758)	658	2	
<i>Satyrium spini</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Satyrium w-album</i> (Knoch, 1782)	658	1	
<i>Thecla betulae</i> (Linnaeus, 1758)	658	1	
<i>Lycaena alciphron</i> (Rottenburg, 1775)	n/a	0	Germany*, Romania, Kazakhstan (658)
<i>Lycaena dispar</i> (Haworth, 1802)	n/a	0	Romania (658)
<i>Lycaena helle</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Lycaena hippothoe</i> (Linnaeus, 1761)	658	2	
<i>Lycaena phlaeas</i> (Linnaeus, 1761)	658	5	
<i>Lycaena tityrus</i> (Poda, 1761)	658	5	
<i>Lycaena virgaureae</i> (Linnaeus, 1758)	658	2	
<i>Aricia agestis</i> (Denis & Schiffermüller, 1775)	658	46	
<i>Aricia artaxerxes</i> (Fabricius, 1793)	658	10	
<i>Aricia eumedon</i> (Esper, 1780)	658	1	
<i>Cacyreus marshalli</i> Butler, 1898	n/a	0	Italy (658)
<i>Celastrina argiolus</i> (Linnaeus, 1758)	658	4	
<i>Cupido argiades</i> (Pallas, 1771)	n/a	0	Germany*, Finland, Italy, Romania, etc.(658)
<i>Cupido minimus</i> (Fuessly, 1775)	658	4	
<i>Cupido osiris</i> (Meigen, 1829)	n/a	0	

<i>Cyaniris semiargus</i> (Rottemburg, 1775)	658	4	
<i>Glaucopteryx alexis</i> (Poda, 1761)	658	1	
<i>Lampides boeticus</i> (Linnaeus, 1767)	n/a	0	Germany*, Italy, Romania, Israel, etc. (658)
<i>Leptotes pirithous</i> (Linnaeus, 1767)	n/a	0	Italy, Romania, etc. (658)
<i>Phengaris alcon</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Phengaris arion</i> (Linnaeus, 1758)	658	3	
<i>Phengaris nausithous</i> (Bergsträsser, 1779)	658	4	
<i>Phengaris teleius</i> (Bergsträsser, 1779)	658	5	
<i>Plebejus argus</i> (Linnaeus, 1758)	658	5	
<i>Plebejus argyrognomon</i> (Bergsträsser, 1779)	658	5	
<i>Plebejus glandon</i> (de Prunner, 1798)	n/a	0	Switzerland, Italy, etc. (658)
<i>Plebejus idas</i> (Linnaeus, 1761)	658	3	
<i>Plebejus optilete</i> (Knoch, 1781)	658	1	
<i>Plebejus orbitulus</i> (de Prunner, 1798)	n/a	0	Germany*, Italy (658)
<i>Polyommatus amandus</i> (Schneider, 1792)	658	3	
<i>Polyommatus bellargus</i> (Rottemburg, 1775)	658	5	
<i>Polyommatus coridon</i> (Poda, 1761)	658	6	
<i>Polyommatus damon</i> (Denis & Schiffermüller, 1775)	606	1	
<i>Polyommatus daphnis</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Polyommatus dorylas</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Polyommatus eros</i> (Ochsenheimer, 1808)	n/a	0	Austria (658)
<i>Polyommatus icarus</i> (Rottemburg, 1775)	658	5	
<i>Polyommatus thersites</i> (Cantener, 1835)	658	1	
<i>Pseudophilotes baton</i> (Bergsträsser, 1779)	n/a	0	Spain (658)
<i>Pseudophilotes vicrama</i> (Moore, 1865)	n/a	0	Italy, Romania, etc. (658)
<i>Scolitantides orion</i> (Pallas, 1771)	658	2	

Nymphalidae

Species	mfl	n	origins supplementary material (mfl)
<i>Apatura ilia</i> (Denis & Schiffermüller, 1775)	658	5	
<i>Apatura iris</i> (Linnaeus, 1758)	658	4	
<i>Danaus plexippus</i> (Linnaeus, 1758)**	n/a	0	Canada (658)
<i>Argynnis adippe</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Argynnis aglaja</i> (Linnaeus, 1758)	658	5	
<i>Argynnis laodice</i> (Pallas, 1771)	n/a	0	Finland*, Romania (658)
<i>Argynnis niobe</i> (Linnaeus, 1758)	658	3	
<i>Argynnis pandora</i> (Denis & Schiffermüller, 1775)	n/a	0	Italy, Romania, Kazakhstan (658)
<i>Argynnis paphia</i> (Linnaeus, 1758)	658	2	
<i>Boloria aquilonaris</i> (Stichel, 1908)	658	4	
<i>Boloria dia</i> (Linnaeus, 1767)	658	2	
<i>Boloria eunomia</i> (Esper, 1799)	658	3	
<i>Boloria euphrosyne</i> (Linnaeus, 1758)	658	3	
<i>Boloria napaea</i> (Hoffmannsegg, 1804)	658	1	
<i>Boloria pales</i> (Denis & Schiffermüller, 1775)	n/a	0	Germany*, Romania (658)
<i>Boloria selene</i> (Denis & Schiffermüller, 1775)	658	5	
<i>Boloria thore</i> (Hübner, 1803)	658	4	
<i>Boloria titania</i> (Esper, 1793)	658	3	
<i>Brenthis daphne</i> (Bergsträsser, 1780)	n/a	0	Russia, Romania (658)
<i>Brenthis ino</i> (Rottemburg, 1775)	658	3	
<i>Issoria lathonia</i> (Linnaeus, 1758)	658	2	
<i>Libythea celtis</i> (Laicharting, 1782)	n/a	0	Italy, Kazakhstan, etc. (658)
<i>Limnitis camilla</i> (Linnaeus, 1764)	658	4	
<i>Limnitis populi</i> (Linnaeus, 1758)	658	2	

<i>Limenitis reducta</i> Staudinger, 1901	n/a	0	Italy, Romania, etc. (658)
<i>Euphydryas aurinia</i> (Rottemburg, 1775)	658	3	
<i>Euphydryas cynthia</i> (Denis & Schiffermüller, 1775)	647	1	
<i>Euphydryas intermedia</i> (Ménétriés, 1859)	n/a	0	GenBank (636)
<i>Euphydryas maturna</i> (Linnaeus, 1758)	n/a	0	Finland*, Romania, Kazakhstan (658)
<i>Melitaea athalia</i> (Rottemburg, 1775)	658	9	
<i>Melitaea aurelia</i> Nickerl, 1850	658	2	
<i>Melitaea britomartis</i> Assmann, 1847	658	4	
<i>Melitaea cinxia</i> (Linnaeus, 1758)	658	3	
<i>Melitaea diamina</i> (Lang, 1789)	658	3	
<i>Melitaea didyma</i> (Esper, 1778)	658	1	
<i>Melitaea parthenoides</i> Keferstein, 1851	n/a	0	GenBank (658)
<i>Melitaea phoebe</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Aglais io</i> (Linnaeus, 1758)	658	1	
<i>Aglais urticae</i> (Linnaeus, 1758)	480	2	Finland etc. (658)
<i>Araschnia levana</i> (Linnaeus, 1758)	658	2	
<i>Nymphalis antiopa</i> (Linnaeus, 1758)	658	2	
<i>Nymphalis polychloros</i> (Linnaeus, 1758)	658	3	
<i>Nymphalis xanthomelas</i> (Esper, 1781)	n/a	0	Finland*, Romania, Kazakhstan (658)
<i>Polygonia c-album</i> (Linnaeus, 1758)	658	2	
<i>Vanessa atalanta</i> (Linnaeus, 1758)	658	2	
<i>Vanessa cardui</i> (Linnaeus, 1758)	658	3	
<i>Vanessa virginiensis</i> (Drury, 1773)**	n/a	0	North America (658)
<i>Vanessa vulcania</i> (Godart, 1819)**	n/a	0	
<i>Aphantopus hyperantus</i> (Linnaeus, 1758)	658	4	
<i>Arethusana arethusa</i> (Denis & Schiffermüller, 1775)	n/a	0	Romania, Kazakhstan (658)
<i>Brintesia circe</i> (Fabricius, 1775)	585	1	Italy (658)
<i>Chazara briseis</i> (Linnaeus, 1764)	n/a	0	Italy, Romania (658)
<i>Coenonympha arcania</i> (Linnaeus, 1761)	658	6	
<i>Coenonympha gardetta</i> (de Prunner, 1798)	n/a	0	Austria, Switzerland (658)
<i>Coenonympha glycerion</i> (Borkhausen, 1788)	658	5	
<i>Coenonympha hero</i> (Linnaeus, 1761)	658	5	
<i>Coenonympha oedippus</i> (Fabricius, 1787)	658	1	
<i>Coenonympha pamphilus</i> (Linnaeus, 1758)	658	3	
<i>Coenonympha tullia</i> (Müller, 1764)	658	3	
<i>Erebia aethiops</i> (Esper, 1777)	658	3	
<i>Erebia epiphron</i> (Knoch, 1783)	n/a	0	Austria, Switzerland, Romania, etc. (658)
<i>Erebia eriphyle</i> (Freyer, 1836)	492	1	
<i>Erebia euryale</i> (Esper, 1805)	658	3	
<i>Erebia gorge</i> (Hübner, 1804)	658	2	
<i>Erebia ligea</i> (Linnaeus, 1758)	658	3	
<i>Erebia manto</i> (Denis & Schiffermüller, 1775)	n/a	0	Germany*, Switzerland, Romania (658)
<i>Erebia medusa</i> (Denis & Schiffermüller, 1775)	658	7	
<i>Erebia melampus</i> (Fuessly, 1775)	n/a	0	Switzerland (658)
<i>Erebia meolans</i> (de Prunner, 1798)	n/a	0	Switzerland (658)
<i>Erebia oeme</i> (Hübner, 1804)	658	2	
<i>Erebia pandrose</i> (Borkhausen, 1788)	658	1	
<i>Erebia parte</i> (Hübner, 1804)	n/a	0	Germany*, Romania (658)
<i>Erebia pluto</i> (de Prunner, 1798)	n/a	0	Germany*, France, Italy (658)
<i>Erebia pronoe</i> (Esper, 1780)	658	5	
<i>Erebia styx</i> (Freyer, 1834)	n/a	0	Austria* (/)
<i>Erebia tyndarus</i> (Esper, 1781)	658	1	
<i>Hipparchia fagi</i> (Scopoli, 1763)	n/a	0	Italy, Romania (658)
<i>Hipparchia hermione</i> (Linnaeus, 1764)	n/a	0	Spain (658)

<i>Hipparchia semele</i> (Linnaeus, 1758)	n/a	0	Germany*, Finland, Italy, Romania (658)
<i>Hipparchia statilinus</i> (Hufnagel, 1766)	n/a	0	Italy, Romania (658)
<i>Hyponphele lycaon</i> (Rottemburg, 1775)	n/a	0	Italy, Romania, Kazakhstan (658)
<i>Lasionmata maera</i> (Linnaeus, 1758)	658	3	
<i>Lasionmata megera</i> (Linnaeus, 1767)	658	1	
<i>Lasionmata petropolitana</i> (Fabricius, 1787)	658	3	
<i>Lopinga achine</i> (Scopoli, 1763)	658	2	
<i>Maniola jurtina</i> (Linnaeus, 1758)	658	1	
<i>Melanargia galathea</i> (Linnaeus, 1758)	658	3	
<i>Minois dryas</i> (Scopoli, 1763)	658	4	
<i>Oeneis glacialis</i> (Moll, 1783)	658	1	
<i>Pararge aegeria</i> (Linnaeus, 1758)	658	7	
<i>Pyronia tithonus</i> (Linnaeus, 1767)	n/a	0	Italy, Romania (658)

Clade Macroheterocera / Superfamily Drepanoidea

Drepanidae

Species	mfl	n	origins supplementary material (mfl)
<i>Cilix glaucata</i> (Scopoli, 1763)	658	5	
<i>Drepana curvatula</i> (Borkhausen, 1790)	n/a	0	Finland (658)
<i>Drepana falcataria</i> (Linnaeus, 1758)	658	6	
<i>Falcaria lacertinaria</i> (Linnaeus, 1758)	658	5	
<i>Sabra harpagula</i> (Esper, 1786)	n/a	0	Finland* (/)
<i>Watsonalla binaria</i> (Hufnagel, 1767)	658	4	
<i>Watsonalla cultraria</i> (Fabricius, 1775)	658	4	
<i>Achlya flavicornis</i> (Linnaeus, 1758)	658	4	
<i>Cymatophorina diluta</i> (Denis & Schiffermüller, 1775)	n/a	0	Germany*, Italy, Finland* (658)
<i>Habrosyne pyritoides</i> (Hufnagel, 1766)	658	4	
<i>Ochropacha duplaris</i> (Linnaeus, 1761)	658	5	
<i>Polyploca ridens</i> (Fabricius, 1787)	658	1	
<i>Tethea ocularis</i> (Linnaeus, 1767)	658	1	
<i>Tethea or</i> (Denis & Schiffermüller, 1775)	658	6	
<i>Tetheella fluctuosa</i> (Hübner, 1803)	658	4	
<i>Thyatira batis</i> (Linnaeus, 1758)	658	5	

Superfamily Lasiocampoidea

Lasiocampidae

Species	mfl	n	origins supplementary material (mfl)
<i>Eriogaster arbusculae</i> Freyer, 1849	n/a	0	Austria (658)
<i>Eriogaster catax</i> (Linnaeus, 1758)	n/a	0	Italy (658)
<i>Eriogaster lanestris</i> (Linnaeus, 1758)	n/a	0	Austria, Finland (658)
<i>Eriogaster rimicola</i> (Denis & Schiffermüller, 1775)	n/a	0	
<i>Lasiocampa quercus</i> (Linnaeus, 1758)	658	3	
<i>Lasiocampa trifolii</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Macrothylacia rubi</i> (Linnaeus, 1758)	658	4	
<i>Malacosoma alpicola</i> Staudinger, 1870	n/a	0	Germany*, Italy (658)
<i>Malacosoma castrensis</i> (Linnaeus, 1758)	n/a	0	Italy, Finland (658)
<i>Malacosoma franconica</i> (Denis & Schiffermüller, 1775)	n/a	0	
<i>Malacosoma neustria</i> (Linnaeus, 1758)	658	4	
<i>Cosmotriche lobulina</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Dendrolimus pini</i> (Linnaeus, 1758)	658	8	
<i>Euthrix potatoria</i> (Linnaeus, 1758)	658	3	
<i>Gastropacha populifolia</i> (Denis & Schiffermüller, 1775)	n/a	0	Finland, Italy (658)
<i>Gastropacha quercifolia</i> (Linnaeus, 1758)	n/a	0	Austria, Finland, Italy (658)

<i>Odonestis pruni</i> (Linnaeus, 1758)	n/a	0	Finland* (barcodes on BOLD)
<i>Phyllodesma ilicifolia</i> (Linnaeus, 1758)	658	1	
<i>Phyllodesma tremulifolia</i> (Hübner, 1810)	658	2	
<i>Poecilocampa alpina</i> (Frey & Wulschlegel, 1874)	n/a	0	Germany* (/)
<i>Poecilocampa populi</i> (Linnaeus, 1758)	n/a	0	Germany*, Austria, Finland (658)
<i>Trichiura crataegi</i> (Linnaeus, 1758)	658	3	

Superfamily **Bombycoidea**

Brahmaeidae

Species	mfl	n	origins supplementary material (mfl)
<i>Lemonia dumi</i> (Linnaeus, 1761)	n/a	0	Germany*, Czech Republic, Sweden (658)
<i>Lemonia taraxaci</i> (Denis & Schiffermüller, 1775)	n/a	0	Italy, France, Greece (658)

Endomidae

Species	mfl	n	origins supplementary material (mfl)
<i>Endromis versicolora</i> (Linnaeus, 1758)	642	1	Italy, Finland etc. (658)

Bombycidae

Species	mfl	n	origins supplementary material (mfl)
<i>Bombyx mori</i> Linnaeus, 1758	n/a	0	BOLD, GenBank (658)

Saturniidae

Species	mfl	n	origins supplementary material (mfl)
<i>Aglia tau</i> (Linnaeus, 1758)	658	3	
<i>Antheraea yamamai</i> (Guérin-Méneville, 1861)	658	1	
<i>Saturnia pavonia</i> (Linnaeus, 1758)	658	2	
<i>Saturnia pavoniella</i> (Scopoli, 1763)	n/a	0	Czech Rep., France, Italy, etc. (658)

Sphingidae

Species	mfl	n	origins supplementary material (mfl)
<i>Daphnis nerii</i> (Linnaeus, 1758)	n/a	0	France, Greece etc. (658)
<i>Deilephila elpenor</i> (Linnaeus, 1758)	658	2	
<i>Deilephila porcellus</i> (Linnaeus, 1758)	306	1	Finland, etc. (658)
<i>Hemaris fuciformis</i> (Linnaeus, 1758)	658	3	
<i>Hemaris tityus</i> (Linnaeus, 1758)	658	2	
<i>Hippotion celerio</i> (Linnaeus, 1758)	n/a	0	Tanzania, Australia, etc. (658)
<i>Hyles euphorbiae</i> (Linnaeus, 1758)	658	2	
<i>Hyles gallii</i> (Rottemburg, 1775)	658	1	
<i>Hyles hippophaes</i> (Esper, 1789)	n/a	0	France, Slovakia, etc. (658)
<i>Hyles livornica</i> (Esper, 1780)	n/a	0	Finland (658)
<i>Hyles vesperilio</i> (Esper, 1780)	n/a	0	Austria, France (658)
<i>Macroglossum stellatarum</i> (Linnaeus, 1758)	658	2	
<i>Proserpinus proserpina</i> (Pallas, 1772)	658	4	
<i>Laothoe populi</i> (Linnaeus, 1758)	658	4	
<i>Mimas tiliae</i> (Linnaeus, 1758)	658	2	
<i>Smerinthus ocellata</i> (Linnaeus, 1758)	658	1	
<i>Acherontia atropos</i> (Linnaeus, 1758)	n/a	0	Germany*, Finland (658)
<i>Agrius convolvuli</i> (Linnaeus, 1758)	658	4	
<i>Sphinx ligustri</i> Linnaeus, 1758	658	3	
<i>Sphinx pinastri</i> Linnaeus, 1758	658	5	

Superfamily Geometroidea

Geometridae: Archiearinae

Species	mfl	n	origins supplementary material (mfl)
<i>Archiearis parthenias</i> (Linnaeus, 1761)	407	1	Canada (658)
<i>Boudinotiana notha</i> (Hübner, 1803)	658	1	

Geometridae: Ennominae

Species	mfl	n	origins supplementary material (mfl)
<i>Abraxas grossulariata</i> (Linnaeus, 1758)	n/a	0	Finland, Italy, France, etc. (658)
<i>Abraxas sylvata</i> (Scopoli, 1763)	658	1	
<i>Aethalura punctulata</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Agriopis aurantiaria</i> (Hübner, 1799)	658	6	
<i>Agriopis bajaria</i> (Denis & Schiffermüller, 1775)	616	1	Italy, Bulgaria, etc. (658)
<i>Agriopis leucophaearia</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Agriopis marginaria</i> (Fabricius, 1776)	658	7	
<i>Alcis bastelbergerei</i> (Hirschke, 1908)	658	1	
<i>Alcis jubata</i> (Thunberg, 1788)	n/a	0	Austria, Finland (658)
<i>Alcis repandata</i> (Linnaeus, 1758)	658	15	
<i>Aleucis distinctata</i> (Herrich-Schäffer, 1839)	n/a	0	Germany*, France (658)
<i>Alsophila aceraria</i> (Denis & Schiffermüller, 1775)	n/a	0	Croatia* (/)
<i>Alsophila aescularia</i> (Denis & Schiffermüller, 1775)	658	6	
<i>Angerona prunaria</i> (Linnaeus, 1758)	658	4	
<i>Apeira syringaria</i> (Linnaeus, 1758)	658	5	
<i>Apocheima hispidaria</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Phigalia pilosaria</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Arichanna melanaria</i> (Linnaeus, 1758)	658	2	
<i>Artiora evonymaria</i> (Denis & Schiffermüller, 1775)	n/a	0	Austria* (/)
<i>Ascotis selenaria</i> (Denis & Schiffermüller, 1775)	n/a	0	Germany*, Italy, France, etc. (658)
<i>Aspitates gilvaria</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Isturgia famula</i> (Esper, 1787)	n/a	0	
<i>Biston betularia</i> (Linnaeus, 1758)	658	8	
<i>Biston strataria</i> (Hufnagel, 1767)	658	5	
<i>Bupalus piniaria</i> (Linnaeus, 1758)	658	2	
<i>Cabera exanthemata</i> (Scopoli, 1763)	658	11	
<i>Cabera leptographa</i> Wehrli, 1936	n/a	0	Poland* (/)
<i>Cabera pusaria</i> (Linnaeus, 1758)	658	6	
<i>Campaea honoraria</i> (Denis & Schiffermüller, 1775)	n/a	0	Italy (658)
<i>Campaea margaritaria</i> (Linnaeus, 1761)	658	5	
<i>Cepphis advenaria</i> (Hübner, 1790)	658	5	
<i>Chariaspilates formosaria</i> (Eversmann, 1837)	n/a	0	Liechtenstein, France (658)
<i>Charissa ambiguata</i> (Duponchel, 1830)	658	4	
<i>Charissa glaucinaria</i> (Hübner, 1799)	658	3	
<i>Charissa intermedia</i> (Wehrli, 1917)	658	4	
<i>Charissa obscurata</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Charissa pullata</i> (Denis & Schiffermüller, 1775)	658	6	
<i>Chiasmia aestimaria</i> (Hübner, 1809)	n/a	0	Italy, France, Turkey, etc. (658)
<i>Chiasmia clathrata</i> (Linnaeus, 1758)	658	5	
<i>Cleora cinctaria</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Cleorodes lichenaria</i> (Hufnagel, 1767)	n/a	0	Italy, Finland (658)
<i>Colotois pennaria</i> (Linnaeus, 1761)	658	6	
<i>Crocallis elinguarina</i> (Linnaeus, 1758)	658	6	
<i>Crocallis tusciaria</i> (Borkhausen, 1793)	n/a	0	Italy, Hungary, Greece, etc. (658)

<i>Deileptenia ribeata</i> (Clerck, 1759)	658	5	
<i>Dyscia fagaria</i> (Thunberg, 1784)	658	9	
<i>Ectropis crepuscularia</i> (Denis & Schiffermüller, 1775)	658	42	
<i>Elophos caelibaria</i> (Heydenreich, 1851)	658	1	
<i>Elophos dilucidaria</i> (Denis & Schiffermüller, 1775)	658	6	
<i>Elophos serotinaria</i> (Denis & Schiffermüller, 1775)	n/a	0	Austria (658)
<i>Elophos vittaria</i> (Thunberg, 1788)	658	1	
<i>Elophos zelleraria</i> (Freyer, 1836)	609	2	Austria, Italy (658)
<i>Ematurga atomaria</i> (Linnaeus, 1758)	658	4	
<i>Ennomos alniaria</i> (Linnaeus, 1758)	658	2	
<i>Ennomos autumnaria</i> (Werneburg, 1859)	658	2	
<i>Ennomos erosaria</i> (Denis & Schiffermüller, 1775)	658	6	
<i>Ennomos fuscantaria</i> (Haworth, 1809)	n/a	0	Germany*, Italy, Finland (658)
<i>Ennomos quercinaria</i> (Hufnagel, 1767)	658	5	
<i>Epione repandaria</i> (Hufnagel, 1767)	658	4	
<i>Epione vespertaria</i> (Linnaeus, 1767)	658	1	
<i>Epirranthis diversata</i> (Denis & Schiffermüller, 1775)	n/a	0	Finland (658)
<i>Erannis defoliaria</i> (Clerck, 1759)	658	9	
<i>Fagivorina arenaria</i> (Hufnagel, 1767)	658	1	
<i>Glacies alpinata</i> (Scopoli, 1763)	658	2	
<i>Glacies canaliculata</i> (Hochenwarth, 1785)	658	1	
<i>Glacies coracina</i> (Esper, 1805)	658	1	
<i>Glacies noricana</i> (Wagner, 1898)	658	1	
<i>Gnophos furvata</i> (Denis & Schiffermüller, 1775)	658	5	
<i>Gnophos obfuscata</i> (Denis & Schiffermüller, 1775)	658	5	
<i>Heliomata glarearia</i> (Denis & Schiffermüller, 1775)	n/a	0	Germany*, France, Italy, etc. (658)
<i>Hylaea fasciaria</i> (Linnaeus, 1758)	658	10	
<i>Hypomecis punctinalis</i> (Scopoli, 1763)	658	6	
<i>Hypomecis roboraria</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Hypoxystis pluviana</i> (Fabricius, 1787)	658	3	
<i>Isturgia murinaria</i> (Denis & Schiffermüller, 1775)	n/a	0	France, Bosnia, Turkey, etc. (658)
<i>Isturgia limbaria</i> (Fabricius, 1775)	654	3	
<i>Isturgia roraria</i> (Fabricius, 1776)	658	3	
<i>Ligdia adustata</i> (Denis & Schiffermüller, 1775)	658	8	
<i>Lomaspillis marginata</i> (Linnaeus, 1758)	658	2	
<i>Lomographa bimaculata</i> (Fabricius, 1775)	658	5	
<i>Lomographa temerata</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Lycia alpina</i> (Sulzer, 1776)	n/a	0	Austria, Italy (658)
<i>Lycia hirtaria</i> (Clerck, 1759)	658	12	
<i>Lycia isabellae</i> (Harrison, 1914)	n/a	0	Austria (407)
<i>Lycia pomonaria</i> (Hübner, 1790)	n/a	0	Finland (658)
<i>Lycia zonaria</i> (Denis & Schiffermüller, 1775)	n/a	0	France, Hungary, Turkey (658)
<i>Macaria alternata</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Macaria artesiaria</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Macaria brunneata</i> (Thunberg, 1784)	658	4	
<i>Macaria carbonaria</i> (Clerck, 1759)	n/a	0	Finland (658)
<i>Macaria fusca</i> (Thunberg, 1792)	532	1	Austria, France, Finland (658)
<i>Macaria liturata</i> (Clerck, 1759)	658	6	
<i>Macaria notata</i> (Linnaeus, 1758)	658	8	
<i>Macaria signaria</i> (Hübner, 1809)	658	4	
<i>Macaria wauaria</i> (Linnaeus, 1758)	658	7	
<i>Menophra abruptaria</i> (Thunberg, 1792)	n/a	0	Switzerland, France, Spain, Italy, etc. (658)
<i>Menophra nycthemeraria</i> (Geyer, 1831)	n/a	0	
<i>Narraga fasciolaria</i> (Hufnagel, 1767)	n/a	0	

<i>Odontognophos dumetata</i> (Treitschke 1827)	n/a	0	Bulgaria* (/)
<i>Odontopera bidentata</i> (Clerck, 1759)	658	7	
<i>Opisthograptis luteolata</i> (Linnaeus, 1758)	658	3	
<i>Ourapteryx sambucaria</i> (Linnaeus, 1758)	658	2	
<i>Pachycaenia hippocastanaria</i> (Hübner, 1799)	658	2	
<i>Paradarisa consonaria</i> (Hübner, 1799)	658	3	
<i>Parectropis similaria</i> (Hufnagel, 1767)	658	3	
<i>Perconia strigillaria</i> (Hübner, 1787)	n/a	0	Italy, Finland (658)
<i>Peribatodes ilicaria</i> (Geyer, 1833)	n/a	0	France, Spain, Portugal (658)
<i>Peribatodes rhomboidaria</i> (Denis & Schiffermüller, 1775)	658	10	
<i>Peribatodes secundaria</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Petrophora chlorosata</i> (Scopoli, 1763)	658	4	
<i>Plagodis dolabraria</i> (Linnaeus, 1767)	658	4	
<i>Plagodis pulveraria</i> (Linnaeus, 1758)	658	6	
<i>Pseudopanthera macularia</i> (Linnaeus, 1758)	658	2	
<i>Psodos quadrifaria</i> (Sulzer, 1776)	658	2	
<i>Pungeleria capreolaria</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Sciadia tenebraria</i> (Esper, 1806)	658	4	
<i>Selenia dentaria</i> (Fabricius, 1775)	658	3	
<i>Selenia lunularia</i> (Hübner, 1788)	658	4	
<i>Selenia tetralunaria</i> (Hufnagel, 1767)	658	5	
<i>Selidosema brunnearia</i> (de Villers, 1789)	658	3	
<i>Siona lineata</i> (Scopoli, 1763)	658	4	
<i>Stegania cararia</i> (Hübner, 1790)	n/a	0	Germany* (/)
<i>Stegania dilectaria</i> (Hübner, 1790)	n/a	0	Croatia*, Turkey* (/)
<i>Stegania trimaculata</i> (de Villers, 1789)	658	2	
<i>Synopsia sociaria</i> (Hübner, 1799)	n/a	0	Italy, Turkey (658)
<i>Tephronia sepiaria</i> (Hufnagel, 1767)	n/a	0	France, Italy, Spain, etc. (658)
<i>Theria primaria</i> (Haworth, 1809)	658	2	
<i>Theria rupicapraria</i> (Denis & Schiffermüller, 1775)	658	2	

Geometridae: Geometrinae

Species	mfl	n	origins supplementary material (mfl)
<i>Aplasta ononaria</i> (Fuessly, 1783)	/	0	Italy*, Israel (658)
<i>Chlorissa cloraria</i> (Hübner, 1813)	586	1	Italy (658)
<i>Chlorissa viridata</i> (Linnaeus, 1758)	658	1	
<i>Comibaena bajularia</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Geometra papilionaria</i> (Linnaeus, 1758)	658	3	
<i>Hemistola chrysoprasaria</i> (Esper, 1795)	658	5	
<i>Hemithea aestivaria</i> (Hübner, 1789)	658	4	
<i>Jodis lactearia</i> (Linnaeus, 1758)	658	3	
<i>Jodis putata</i> (Linnaeus, 1758)	658	1	
<i>Pseudoterpna pruinata</i> (Hufnagel, 1767)	658	1	
<i>Thalera fimbrialis</i> (Scopoli, 1763)	658	3	
<i>Thetidia smaragdaria</i> (Fabricius, 1787)	658	3	

Geometridae: Larentiinae

Species	mfl	n	origins supplementary material (mfl)
<i>Acasis appensata</i> (Eversmann, 1842)	n/a	0	Austria, Finland, Italy (658)
<i>Acasis viretata</i> (Hübner, 1799)	658	4	
<i>Anticlea badiata</i> (Denis & Schiffermüller, 1775)	658	7	
<i>Anticlea derivata</i> (Denis & Schiffermüller, 1775)	658	3	

<i>Anticollix sparsata</i> (Treitschke, 1828)	658	4	
<i>Aplocera efformata</i> (Guenée, 1858)	658	5	
<i>Aplocera plagiata</i> (Linnaeus, 1758)	658	1	
<i>Aplocera praeformata</i> (Hübner, 1826)	658	3	
<i>Asthena albulata</i> (Hufnagel, 1767)	658	2	
<i>Asthena anseraria</i> (Herrich-Schäffer, 1855)	658	3	
<i>Baptia tibiale</i> (Esper, 1791)	658	1	
<i>Camptogramma bilineata</i> (Linnaeus, 1758)	658	6	
<i>Camptogramma scripturata</i> (Hübner, 1799)	658	1	
<i>Carsia sororiata</i> (Hübner, 1813)	658	1	
<i>Cataclysmes rigua</i> (Hübner, 1813)	658	3	
<i>Catarhoe cuculata</i> (Hufnagel, 1767)	658	3	
<i>Catarhoe rubidata</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Chesias legatella</i> (Denis & Schiffermüller, 1775)	548	2	United Kingdom (658)
<i>Chesias rufata</i> (Fabricius, 1775)	n/a	0	Italy, Spain (658)
<i>Chloroclysta miata</i> (Linnaeus, 1758)	658	3	
<i>Chloroclysta siterata</i> (Hufnagel, 1767)	658	19	
<i>Chloroclystis v-ata</i> (Haworth, 1809)	658	7	
<i>Cidaria fulvata</i> (Forster, 1771)	658	6	
<i>Coenocalpe lapidata</i> (Hübner, 1809)	n/a	0	Finland, Turkey (658)
<i>Coenotephria salicata</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Coenotephria tophaceata</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Colostygia aptata</i> (Hübner, 1813)	658	7	
<i>Colostygia aqueata</i> (Hübner, 1813)	633	1	Italy, France, Greece, etc. (658)
<i>Colostygia kollariaria</i> (Herrich-Schäffer, 1848)	n/a	0	Austria, Italy (658)
<i>Colostygia kollariaria</i> (Herrich-Schäffer, 1848)	658	1	
<i>Colostygia laetaria</i> (La Harpe, 1853)	n/a	0	France, Italy (658)
<i>Colostygia multistrigaria</i> (Haworth, 1809)	658	5	
<i>Colostygia olivata</i> (Denis & Schiffermüller, 1775)	658	6	
<i>Colostygia pectinataria</i> (Knoch, 1781)	658	3	
<i>Colostygia puengeleri</i> (Stertz, 1902)	n/a	0	Germany*, Austria, Switzerland (658)
<i>Colostygia turbata</i> (Hübner, 1799)	658	2	
<i>Cosmorhoe ocellata</i> (Linnaeus, 1758)	658	3	
<i>Costaconvexa polygrammata</i> (Borkhausen, 1794)	n/a	0	Italy, Turkey, Israel (658)
<i>Dysstroma citrata</i> (Linnaeus, 1761)	658	3	
<i>Dysstroma truncata</i> (Hufnagel, 1767)	658	18	
<i>Ecliptopera capitata</i> (Herrich-Schäffer, 1839)	658	6	
<i>Ecliptopera silaceata</i> (Denis & Schiffermüller, 1775)	658	10	
<i>Electrophaes corylata</i> (Thunberg, 1792)	658	7	
<i>Entephria caesiata</i> (Denis & Schiffermüller, 1775)	658	7	
<i>Entephria cyanata</i> (Hübner, 1809)	658	2	
<i>Entephria flavata</i> (Osthelder, 1929)	658	2	
<i>Entephria flavicinctata</i> (Hübner, 1813)	658	1	
<i>Entephria infidaria</i> (La Harpe, 1853)	658	1	
<i>Entephria nobiliaria</i> (Herrich-Schäffer, 1852)	658	2	
<i>Epirrhoe alternata</i> (Müller, 1764)	658	10	
<i>Epirrhoe galiata</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Epirrhoe hastulata</i> (Hübner, 1790)	594	2	Finland (658)
<i>Epirrhoe molluginata</i> (Hübner, 1813)	658	4	
<i>Epirrhoe pupillata</i> (Thunberg, 1788)	n/a	0	Finland, China (658)
<i>Epirrhoe rivata</i> (Hübner, 1813)	658	2	
<i>Epirrhoe tristata</i> (Linnaeus, 1758)	658	5	
<i>Epirrita autumnata</i> (Borkhausen, 1794)	658	7	
<i>Epirrita christyi</i> (Allen, 1906)	658	17	

<i>Epirrita dilutata</i> (Denis & Schiffermüller, 1775)	626	4	Finland, Greece (658)
<i>Euchoeca nebulata</i> (Scopoli, 1763)	658	4	
<i>Eulithis mellinata</i> (Fabricius, 1787)	n/a	0	Germany*, Finland (658)
<i>Eulithis populata</i> (Linnaeus, 1758)	658	6	
<i>Eulithis prunata</i> (Linnaeus, 1758)	658	6	
<i>Eulithis pyropata</i> (Hübner, 1809)	n/a	0	Latvia, Finland (658)
<i>Eulithis testata</i> (Linnaeus, 1761)	n/a	0	Germany*, Finland, Canada (658)
<i>Euphyia adumbraria</i> (Herrich-Schäffer, 1852)	654	1	Italy, Slovenja, Croatia (658)
<i>Euphyia biangulata</i> (Haworth, 1809)	658	3	
<i>Euphyia frustata</i> (Treitschke, 1828)	657	1	Italy, Greece, etc. (658)
<i>Euphyia unangulata</i> (Haworth, 1809)	658	3	
<i>Eupithecia abbreviata</i> Stephens, 1831	658	3	
<i>Eupithecia abietaria</i> (Goeze, 1781)	658	3	
<i>Eupithecia absinthiata</i> (Clerck, 1759)	658	12	
<i>Eupithecia actaeata</i> Walderdorff, 1869	658	2	
<i>Eupithecia analoga</i> (Djakonov, 1926)	632	1	
<i>Eupithecia assimilata</i> Doubleday, 1856	658	8	
<i>Eupithecia breviculata</i> (Donzel, 1837)	n/a	0	Italy, Turkey, Lebanon, Israel (658)
<i>Eupithecia cauchiata</i> (Duponchel, 1831)	658	3	
<i>Eupithecia centaureata</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Eupithecia conterminata</i> (Lienig, 1846)	658	3	
<i>Eupithecia denotata</i> (Hübner, 1813)	658	2	
<i>Eupithecia denticulata</i> (Treitschke, 1828)	n/a	0	Turkey (601)
<i>Eupithecia distinctaria</i> Herrich-Schäffer, 1848	658	4	
<i>Eupithecia dodoneata</i> Guenée, 1858	658	6	
<i>Eupithecia egenaria</i> Herrich-Schäffer, 1848	658	2	
<i>Eupithecia exiguata</i> (Hübner, 1813)	658	9	
<i>Eupithecia expallidata</i> Doubleday, 1856	658	2	
<i>Eupithecia extraversaria</i> Herrich-Schäffer, 1852	658	1	
<i>Eupithecia extremata</i> (Fabricius, 1787)	n/a	0	Turkey, Israel (658)
<i>Eupithecia gelidata</i> (Möschler, 1860)	n/a	0	Finland, North America (658)
<i>Eupithecia goossensata</i> Mabilie, 1869	658	3	
<i>Eupithecia haworthiata</i> Doubleday, 1856	658	5	
<i>Eupithecia icterata</i> (de Villers, 1789)	658	6	
<i>Eupithecia immundata</i> (Lienig, 1846)	658	2	
<i>Eupithecia impurata</i> (Hübner, 1813)	658	2	
<i>Eupithecia indigata</i> (Hübner, 1813)	658	4	
<i>Eupithecia innotata</i> (Hufnagel, 1767)	658	14	
<i>Eupithecia insigniata</i> (Hübner, 1790)	658	1	
<i>Eupithecia intricata</i> (Zetterstedt, 1839)	658	11	
<i>Eupithecia inturbata</i> (Hübner, 1817)	658	10	
<i>Eupithecia irriguata</i> (Hübner, 1813)	n/a	0	Finland, Israel, Lebanon (658)
<i>Eupithecia lanceata</i> (Hübner, 1825)	658	6	
<i>Eupithecia laquaearia</i> Herrich-Schäffer, 1848	n/a	0	Germany*, Italy (658)
<i>Eupithecia lariciata</i> (Freyer, 1841)	658	4	
<i>Eupithecia linariata</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Eupithecia millefoliata</i> Rössler, 1866	658	1	
<i>Eupithecia nanata</i> (Hübner, 1813)	658	4	
<i>Eupithecia ochridata</i> Schütze & Pinker, 1968	658	8	
<i>Eupithecia orphnata</i> Petersen, 1909	658	1	
<i>Eupithecia pauxillaria</i> Boisduval, 1840	n/a	0	
<i>Eupithecia pimpinellata</i> (Hübner, 1813)	641	2	
<i>Eupithecia plumbeolata</i> (Haworth, 1809)	658	4	
<i>Eupithecia pulchellata</i> (Stephens, 1831)	658	6	

<i>Eupithecia pusillata</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Eupithecia pygmaea</i> (Hübner, 1799)	n/a	0	Finland (658)
<i>Eupithecia pyreneata</i> Mabilie, 1871	658	4	
<i>Eupithecia satyrata</i> (Hübner, 1813)	658	4	
<i>Eupithecia selinata</i> Herrich-Schäffer, 1861	658	3	
<i>Eupithecia semigraphata</i> Bruand, 1850	658	5	
<i>Eupithecia silenata</i> Assmann, 1848	658	1	
<i>Eupithecia simpliciata</i> (Haworth, 1809)	n/a	0	Finland (658)
<i>Eupithecia sinuosaria</i> (Eversmann, 1848)	658	1	
<i>Eupithecia subfuscata</i> (Haworth, 1809)	658	26	
<i>Eupithecia subumbrata</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Eupithecia succenturiata</i> (Linnaeus, 1758)	240	1	Finland (658)
<i>Eupithecia tantillaria</i> Boisduval, 1840	658	16	
<i>Eupithecia tenuiata</i> (Hübner, 1813)	658	5	
<i>Eupithecia tripunctaria</i> Herrich-Schäffer, 1852	658	14	
<i>Eupithecia trisignaria</i> Herrich-Schäffer, 1848	658	2	
<i>Eupithecia undata</i> (Freyer, 1840)	n/a	0	Italy (658)
<i>Eupithecia valerianata</i> (Hübner, 1813)	658	3	
<i>Eupithecia venosata</i> (Fabricius, 1787)	658	3	
<i>Eupithecia veratraria</i> Herrich-Schäffer, 1848	658	6	
<i>Eupithecia virgaureata</i> Doubleday, 1861	658	20	
<i>Eupithecia vulgata</i> (Haworth, 1809)	658	9	
<i>Eustroma reticulata</i> (Denis & Schiffermüller, 1775)	658	6	
<i>Gagitodes sagittata</i> (Fabricius, 1787)	658	3	
<i>Gandaritis pyraliata</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Gymnoscelis rufifasciata</i> (Haworth, 1809)	658	7	
<i>Horisme aemulata</i> (Hübner, 1813)	658	2	
<i>Horisme aquata</i> (Hübner, 1813)	n/a	0	Mongolia, China, Russia* (658)
<i>Horisme calligraphata</i> (Herrich-Schäffer, 1838)	n/a	0	Italy, Greece, Turkey, etc. (658)
<i>Horisme corticata</i> (Treitschke, 1835)	n/a	0	Turkey, Greece (609)
<i>Horisme radicularia</i> (La Harpe, 1855)	658	6	
<i>Horisme tersata</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Horisme vitalbata</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Hydrelia flammeolaria</i> (Hufnagel, 1767)	658	4	
<i>Hydrelia sylvata</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Hydriomena furcata</i> (Thunberg, 1784)	658	10	
<i>Hydriomena impluviata</i> (Denis & Schiffermüller, 1775)	658	5	
<i>Hydriomena ruberata</i> (Freyer, 1831)	658	3	
<i>Lampropteryx otregiata</i> (Metcalf, 1917)	658	4	
<i>Lampropteryx suffumata</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Larentia clavaria</i> (Haworth, 1809)	n/a	0	Denmark, Italy, Finland, etc. (658)
<i>Lithostege farinata</i> (Hufnagel, 1767)	n/a	0	Greece, Austria, Russia* (658)
<i>Lithostege grisata</i> (Denis & Schiffermüller, 1775)	n/a	0	U.K., Russia, Ukraine (658)
<i>Lobophora halterata</i> (Hufnagel, 1767)	658	10	
<i>Martania taeniata</i> (Stephens, 1831)	658	2	
<i>Melanthia alaudaria</i> (Freyer, 1846)	658	1	
<i>Melanthia procellata</i> (Denis & Schiffermüller, 1775)	658	8	
<i>Mesoleuca albicillata</i> (Linnaeus, 1758)	658	5	
<i>Mesotype didymata</i> (Linnaeus, 1758)	658	3	
<i>Mesotype parallelineata</i> (Retzius, 1783)	577	2	Austria (658)
<i>Mesotype verberata</i> (Scopoli, 1763)	658	5	
<i>Minoa murinata</i> (Scopoli, 1763)	658	3	
<i>Nebula achromaria</i> (La Harpe, 1853)	n/a	0	Austria, Italy (658)

<i>Nebula nebulata</i> (Treitschke, 1828)	658	3	
<i>Nothocasis sertata</i> (Hübner, 1817)	658	7	
<i>Odezia atrata</i> (Linnaeus, 1758)	658	4	
<i>Operophtera brumata</i> (Linnaeus, 1758)	658	15	
<i>Operophtera fagata</i> (Scharfenberg, 1805)	658	5	
<i>Orthonama obstipata</i> (Fabricius, 1794)	658	4	
<i>Orthonama vittata</i> (Borkhausen, 1794)	658	5	
<i>Pareulype berberata</i> (Denis & Schiffermüller, 1775)	658	5	
<i>Pasiphila chloerata</i> (Mabille, 1870)	658	3	
<i>Pasiphila debiliata</i> (Hübner, 1817)	658	1	
<i>Pasiphila rectangulata</i> (Linnaeus, 1758)	658	13	
<i>Pelurga comitata</i> (Linnaeus, 1758)	624	1	Finland (658)
<i>Pennithera firmata</i> (Hübner, 1822)	658	7	
<i>Perizoma affinitata</i> (Stephens, 1831)	658	3	
<i>Perizoma albulata</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Perizoma alchemillata</i> (Linnaeus, 1758)	658	16	
<i>Perizoma bifaciata</i> (Haworth, 1809)	615	3	Italy, Finland (658)
<i>Perizoma blandiata</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Perizoma flavofasciata</i> (Thunberg, 1792)	658	4	
<i>Perizoma hydrata</i> (Treitschke, 1829)	658	1	
<i>Perizoma incultaria</i> (Herrich-Schäffer, 1848)	658	1	
<i>Perizoma lugdunaria</i> (Herrich-Schäffer, 1855)	n/a	0	Germany*, Italy* (/)
<i>Perizoma minorata</i> (Treitschke, 1828)	658	3	
<i>Perizoma obsoletata</i> (Herrich-Schäffer, 1838)	658	2	
<i>Phibalapteryx virgata</i> (Hufnagel, 1767)	658	3	
<i>Philereme transversata</i> (Hufnagel, 1767)	658	2	
<i>Philereme vetulata</i> (Denis & Schiffermüller, 1775)	658	5	
<i>Plemyria rubiginata</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Pterapherapteryx sexalata</i> (Retzius, 1783)	658	2	
<i>Rheumaptera cervinalis</i> (Scopoli, 1763)	658	7	
<i>Rheumaptera hastata</i> (Linnaeus, 1758)	658	3	
<i>Rheumaptera subhastata</i> (Nolcken, 1870)	n/a	0	Germany*, Finland (658)
<i>Rheumaptera undulata</i> (Linnaeus, 1758)	658	3	
<i>Scotopteryx bipunctaria</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Scotopteryx chenopodiata</i> (Linnaeus, 1758)	658	4	
<i>Scotopteryx coarctaria</i> (Denis & Schiffermüller, 1775)	n/a	0	Turkey, Italy* (658)
<i>Scotopteryx luridata</i> (Hufnagel, 1767)	658	2	
<i>Scotopteryx moeniata</i> (Scopoli, 1763)	658	3	
<i>Scotopteryx mucronata</i> (Scopoli, 1763)	n/a	0	Germany*, Turkey, Italy*, etc. (612)
<i>Spargania luctuata</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Thera britannica</i> (Turner, 1925)	658	3	
<i>Thera cembrae</i> (Kitt, 1912)	658	1	
<i>Thera cognata</i> (Thunberg, 1792)	658	2	
<i>Thera cupressata</i> (Geyer, 1831)	n/a	0	France, Italy (658)
<i>Thera juniperata</i> (Linnaeus, 1758)	658	4	
<i>Thera obeliscata</i> (Hübner, 1787)	658	34	
<i>Thera variata</i> (Denis & Schiffermüller, 1775)	658	13	
<i>Thera vetustata</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Trichopteryx carpinata</i> (Borkhausen, 1794)	658	4	
<i>Trichopteryx polyommata</i> (Denis & Schiffermüller, 1775)	658	5	
<i>Triphosa dubitata</i> (Linnaeus, 1758)	658	4	
<i>Triphosa sabaudiata</i> (Duponchel, 1830)	658	2	
<i>Venusia blomeri</i> (Curtis, 1832)	658	4	
<i>Venusia cambrica</i> Curtis, 1839	658	1	

<i>Xanthorhoe biriviata</i> (Borkhausen, 1794)	658	6
<i>Xanthorhoe decoloraria</i> (Esper, 1806)	658	1
<i>Xanthorhoe designata</i> (Hufnagel, 1767)	658	5
<i>Xanthorhoe ferrugata</i> (Clerck, 1759)	658	13
<i>Xanthorhoe fluctuata</i> (Linnaeus, 1758)	658	15
<i>Xanthorhoe incurvata</i> (Hübner, 1813)	658	1
<i>Xanthorhoe montanata</i> (Denis & Schiffermüller, 1775)	658	5
<i>Xanthorhoe quadrifasiata</i> (Clerck, 1759)	658	7
<i>Xanthorhoe spadicearia</i> (Denis & Schiffermüller, 1775)	658	9

Geometridae: Sterrhinae

Species	mfl	n	origins supplementary material (mfl)
<i>Cyclophora albipunctata</i> (Hufnagel, 1767)	658	2	
<i>Cyclophora annularia</i> (Fabricius, 1775)	636	1	France, Finland (658)
<i>Cyclophora lennigiaria</i> (Fuchs, 1883)	634	1	
<i>Cyclophora linearia</i> (Hübner, 1799)	658	2	
<i>Cyclophora pendularia</i> (Clerck, 1759)	475	1	France, Finland (658)
<i>Cyclophora porata</i> (Linnaeus, 1767)	n/a	0	Italy, Spain (658)
<i>Cyclophora punctaria</i> (Linnaeus, 1758)	658	4	
<i>Cyclophora puppillaria</i> (Hübner, 1799)	n/a	0	Italy, Spain, Turkey, etc. (658)
<i>Cyclophora quercimontaria</i> (Bastelberger, 1897)	n/a	0	Germany*, Italy*, Turkey* (/)
<i>Cyclophora ruficiliaria</i> (Herrich-Schäffer, 1855)	n/a	0	Germany*, Italy (658)
<i>Idaea aureolaria</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Idaea aversata</i> (Linnaeus, 1758)	658	4	
<i>Idaea biselata</i> (Hufnagel, 1767)	658	5	
<i>Idaea contiguaria</i> (Hübner, 1799)	n/a	0	
<i>Idaea degeneraria</i> (Hübner, 1799)	n/a	0	Germany*, Italy, Turkey, etc. (658)
<i>Idaea deversaria</i> (Herrich-Schäffer, 1847)	n/a	0	Italy, Spain, Finland, etc. (658)
<i>Idaea dilutaria</i> (Hübner, 1799)	658	1	
<i>Idaea dimidiata</i> (Hufnagel, 1767)	658	4	
<i>Idaea emarginata</i> (Linnaeus, 1758)	658	3	
<i>Idaea fuscovenosa</i> (Goeze, 1781)	658	3	
<i>Idaea humiliata</i> (Hufnagel, 1767)	658	2	
<i>Idaea inquinata</i> (Scopoli, 1763)	658	6	
<i>Idaea laevigata</i> (Scopoli, 1763)	n/a	0	Italy, Spain* (633)
<i>Idaea macilentaria</i> (Herrich-Schäffer, 1847)	n/a	0	Spain (306)
<i>Idaea moniliata</i> (Denis & Schiffermüller, 1775)	n/a	0	Germany*, Italy, Turkey, etc. (658)
<i>Idaea muricata</i> (Hufnagel, 1767)	658	2	
<i>Idaea ochrata</i> (Scopoli, 1763)	n/a	0	Germany*, Italy, Greece, etc. (658)
<i>Idaea pallidata</i> (Denis & Schiffermüller, 1775)	417	2	Finland (658)
<i>Idaea rubraria</i> (Staudinger, 1901)	n/a	0	Italy (658)
<i>Idaea rufaria</i> (Hübner, 1799)	n/a	0	Germany*, Italy, Iran (658)
<i>Idaea rusticata</i> (Denis & Schiffermüller, 1775)	n/a	0	Italy, Iran (658)
<i>Idaea seriata</i> (Schrank, 1802)	658	6	
<i>Idaea serpentata</i> (Hufnagel, 1767)	658	2	
<i>Idaea straminata</i> (Borkhausen, 1794)	658	5	
<i>Idaea subsericeata</i> (Haworth, 1809)	n/a	0	Italy, Turkey, etc. (658)
<i>Idaea sylvestraria</i> (Hübner, 1799)	658	5	
<i>Idaea trigeminata</i> (Haworth, 1809)	n/a	0	Italy, Greece, Turkey, etc. (658)
<i>Lythria cruentaria</i> (Hufnagel, 1767)	n/a	0	Finland, Italy* (641)
<i>Lythria plumularia</i> (Freyer, 1831)	n/a	0	Switzerland (607)
<i>Lythria purpuraria</i> (Linnaeus, 1758)	n/a	0	Turkey, Iran, Italy*, Greece* (658)
<i>Rhodometra sacraria</i> (Linnaeus, 1767)	n/a	0	Italy, Greece, Turkey, etc. (658)

<i>Rhodostrophia calabra</i> (Petagna, 1786)	n/a	0	Italy, France (658)
<i>Rhodostrophia vibicaria</i> (Clerck, 1759)	658	3	
<i>Scopula caricaria</i> (Reutti, 1853)	n/a	0	France, Finland (658)
<i>Scopula corvivalaria</i> (Kretschmar, 1862)	n/a	0	Finland* (/)
<i>Scopula decorata</i> (Denis & Schiffermüller, 1775)	n/a	0	Italy, Portugal, Turkey, etc. (658)
<i>Scopula emutaria</i> (Hübner, 1809)	n/a	0	Italy* (/)
<i>Scopula floslactata</i> (Haworth, 1809)	658	6	
<i>Scopula imitarla</i> (Hübner, 1799)	n/a	0	Italy, Greece, Spain, Turkey, etc. (658)
<i>Scopula immorata</i> (Linnaeus, 1758)	658	4	
<i>Scopula immutata</i> (Linnaeus, 1758)	658	2	
<i>Scopula incanata</i> (Linnaeus, 1758)	658	2	
<i>Scopula marginepunctata</i> (Goeze, 1781)	658	2	
<i>Scopula nemoraria</i> (Hübner, 1799)	n/a	0	
<i>Scopula nigropunctata</i> (Hufnagel, 1767)	658	4	
<i>Scopula ornata</i> (Scopoli, 1763)	658	5	
<i>Scopula rubiginata</i> (Hufnagel, 1767)	658	4	
<i>Scopula subpunctaria</i> (Herrich-Schäffer, 1847)	658	1	
<i>Scopula ternata</i> Schrank, 1802	658	1	
<i>Scopula tessellaria</i> (Boisduval, 1840)	n/a	0	Italy, Croatia (658)
<i>Scopula umbelaria</i> (Hübner, 1813)	658	1	
<i>Scopula virgulata</i> (Denis & Schiffermüller, 1775)	n/a	0	Bosnia, China, Mongolia (658)
<i>Timandra comae</i> Schmidt, 1931	658	7	

Superfamily Noctuoidea

Notodontidae: Notodontinae

Species	mfl	n	origins supplementary material (mfl)
<i>Thaumetopoea pinivora</i> (Treitschke, 1834)	n/a	0	
<i>Thaumetopoea pityocampa</i> (Denis & Schiffermüller, 1775)	n/a	0	Italy, Spain (658)
<i>Thaumetopoea processionea</i> (Linnaeus, 1758)	n/a	0	Germany* (/)
<i>Clostera anachoreta</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Clostera anastomosis</i> (Linnaeus, 1758)	n/a	0	Germany*, Italy, Finland (658)
<i>Clostera curtula</i> (Linnaeus, 1758)	658	4	
<i>Clostera pigra</i> (Hufnagel, 1766)	594	2	France, Finland, Italy (658)
<i>Drymonia dodonaea</i> (Denis & Schiffermüller, 1775)	658	6	
<i>Drymonia obliterata</i> (Esper, 1785)	658	5	
<i>Drymonia querna</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Drymonia ruficornis</i> (Hufnagel, 1766)	658	5	
<i>Drymonia velitaris</i> (Hufnagel, 1766)	n/a	0	Italy (658)
<i>Furcula bicuspis</i> (Borkhausen, 1790)	658	3	
<i>Furcula bifida</i> (Brahm, 1787)	658	2	
<i>Furcula furcula</i> (Clerck, 1759)	658	3	
<i>Gluphisia crenata</i> (Esper, 1785)	658	2	
<i>Leucodonta bicoloria</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Notodonta dromedarius</i> (Linnaeus, 1767)	658	2	
<i>Notodonta torva</i> (Hübner, 1803)	658	2	
<i>Notodonta tritophus</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Notodonta ziczac</i> (Linnaeus, 1758)	658	4	
<i>Odontosia carmelita</i> (Esper, 1799)	658	2	
<i>Pheosia gnoma</i> (Fabricius, 1776)	658	3	
<i>Pheosia tremula</i> (Clerck, 1759)	658	6	
<i>Pterostoma palpina</i> (Clerck, 1759)	658	3	
<i>Ptilodon capucina</i> (Linnaeus, 1758)	658	5	
<i>Ptilodon cucullina</i> (Denis & Schiffermüller, 1775)	658	2	

<i>Ptilophora plumigera</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Peridea anceps</i> (Goeze, 1781)	658	2	
<i>Phalera bucephala</i> (Linnaeus, 1758)	658	3	
<i>Harpyla milhauseri</i> (Fabricius, 1775)	658	4	
<i>Spatalia argentina</i> (Denis & Schiffermüller, 1775)	n/a	0	Italy (658)
<i>Stauropus fagi</i> (Linnaeus, 1758)	658	2	
<i>Cerura erminea</i> (Esper, 1783)	658	3	
<i>Cerura vinula</i> (Linnaeus, 1758)	658	3	

Erebidae: Lymantriinae

Species	mfl	n	origins supplementary material (mfl)
<i>Arctornis l-nigrum</i> (Müller, 1764)	658	3	
<i>Calliteara abietis</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Calliteara pudibunda</i> (Linnaeus, 1758)	658	6	
<i>Dicallomera fascelina</i> (Linnaeus, 1758)	658	1	
<i>Euproctis chrysorrhoea</i> (Linnaeus, 1758)	658	3	
<i>Euproctis similis</i> (Fuessly, 1775)	658	3	
<i>Gynaephora selenitica</i> (Esper, 1789)	658	2	
<i>Laelia coenosa</i> (Hübner, 1808)	n/a	0	
<i>Leucoma salicis</i> (Linnaeus, 1758)	658	3	
<i>Lymantria dispar</i> (Linnaeus, 1758)	658	5	
<i>Lymantria monacha</i> (Linnaeus, 1758)	658	5	
<i>Ocneria rubea</i> (Denis & Schiffermüller, 1775)	n/a	0	Italy (636)
<i>Orgyia antiqua</i> (Linnaeus, 1758)	658	6	
<i>Orgyia antiquoides</i> (Hübner, 1822)	n/a	0	Finland (658)
<i>Orgyia recens</i> (Hübner, 1819)	n/a	0	Finland (658)
<i>Parocneria detrita</i> (Esper, 1785)	n/a	0	
<i>Penthophera morio</i> (Linnaeus, 1767)	n/a	0	

Erebidae: Arctiinae

Species	mfl	n	origins supplementary material (mfl)
<i>Arctia caja</i> (Linnaeus, 1758)	658	2	
<i>Arctia festiva</i> (Hufnagel, 1766)	n/a	0	Italy* (/)
<i>Arctia flavia</i> (Fuessly, 1779)	n/a	0	
<i>Arctia villica</i> (Linnaeus, 1758)	n/a	0	Germany*, U.K., Turkey, etc. (658)
<i>Callimorpha dominula</i> (Linnaeus, 1758)	658	7	
<i>Chelis maculosa</i> (Gerning, 1780)	n/a	0	France, Italy, Bulgaria (658)
<i>Coscinia cribraria</i> (Linnaeus, 1758)	658	2	
<i>Cynia sordida</i> (Hübner, 1803)	n/a	0	Italy (658)
<i>Diacrisia sannio</i> (Linnaeus, 1758)	658	7	
<i>Diaphora mendica</i> (Clerck, 1759)	658	2	
<i>Euplagia quadripunctaria</i> (Poda, 1761)	658	3	
<i>Hyphantria cunea</i> (Drury, 1773)	n/a	0	Canada, USA (658)
<i>Hyphoraia aulica</i> (Linnaeus, 1758)	n/a	0	Germany*, Finland (658)
<i>Parasemia plantaginis</i> (Linnaeus, 1758)	658	3	
<i>Pericallia matronula</i> (Linnaeus, 1758)	658	1	
<i>Phragmatobia fuliginosa</i> (Linnaeus, 1758)	658	5	
<i>Phragmatobia luctifera</i> (Denis & Schiffermüller, 1775)	n/a	0	Finland (658)
<i>Rhyparia purpurata</i> (Linnaeus, 1758)	658	4	
<i>Rhyparioides metelkana</i> (Lederer, 1861)	n/a	0	
<i>Spilosoma lubricipeda</i> (Linnaeus, 1758)	658	10	
<i>Spilosoma lutea</i> (Hufnagel, 1766)	658	2	

<i>Spilosoma urticae</i> (Esper, 1789)	618	1	Finland (658)
<i>Spiris striata</i> (Linnaeus, 1758)	658	1	
<i>Tyria jacobaeae</i> (Linnaeus, 1758)	n/a	0	Germany*, Finland (658)
<i>Utetheisa pulchella</i> (Linnaeus, 1758)**	n/a	0	Italy, Pakistan (658)
<i>Watsonarctia casta</i> (Esper, 1785)	n/a	0	Italy (645)
<i>Atolmis rubricollis</i> (Linnaeus, 1758)	658	4	
<i>Cybosia mesomella</i> (Linnaeus, 1758)	658	2	
<i>Eilema caniola</i> (Hübner, 1808)	658	1	
<i>Eilema complana</i> (Linnaeus, 1758)	658	5	
<i>Eilema depressa</i> (Esper, 1787)	658	6	
<i>Eilema griseola</i> (Hübner, 1803)	658	5	
<i>Eilema lurideola</i> (Zincken, 1817)	658	4	
<i>Eilema lutarella</i> (Linnaeus, 1758)	658	4	
<i>Eilema palliatella</i> (Scopoli, 1763)	n/a	0	France (658)
<i>Eilema pseudocomplana</i> (Daniel, 1939)	n/a	0	
<i>Eilema pygmaeola</i> (Doubleday, 1847)	658	4	
<i>Eilema sororcula</i> (Hufnagel, 1766)	658	5	
<i>Lithosia quadra</i> (Linnaeus, 1758)	658	5	
<i>Miltochrista miniata</i> (Forster, 1771)	658	3	
<i>Nudaria mundana</i> (Linnaeus, 1761)	658	2	
<i>Pelosia muscerda</i> (Hufnagel, 1766)	658	4	
<i>Pelosia obtusa</i> (Herrich-Schäffer, 1852)	n/a	0	
<i>Setema cereola</i> (Hübner, 1803)	658	1	
<i>Setina aurita</i> (Esper, 1787)	n/a	0	Austria, Switzerland, Italy (658)
<i>Setina irrorella</i> (Linnaeus, 1758)	658	2	
<i>Setina roscida</i> (Denis & Schiffermüller, 1775)	407	1	
<i>Thumatha senex</i> (Hübner, 1808)	658	3	
<i>Amata phegea</i> (Linnaeus, 1758)	658	1	
<i>Dysauxes ancilla</i> (Linnaeus, 1767)	658	2	

Erebidae: Calpinae, Catocalinae

Species	mfl	n	origins supplementary material (mfl)
<i>Scoliopteryx libatrix</i> (Linnaeus, 1758)	658	3	
<i>Calyptra thalictri</i> (Borkhausen, 1790)	n/a	0	Finland (658)
<i>Lygephila craccae</i> (Denis & Schiffermüller, 1775)	407	1	France, Italy, Finland (658)
<i>Lygephila viciae</i> (Hübner, 1822)	658	2	
<i>Lygephila pastinum</i> (Treitschke, 1826)	658	4	
<i>Euclidia glyphica</i> (Linnaeus, 1758)	658	4	
<i>Euclidia mi</i> (Clerck, 1759)	658	3	
<i>Grammodes stolidia</i> (Fabricius, 1775)**	n/a	0	Italy, Ethiopia (658)
<i>Dysgonia algira</i> (Linnaeus, 1767)**	n/a	0	Italy, etc. (658)
<i>Minucia lunaris</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Catephia alchymista</i> (Denis & Schiffermüller, 1775)	n/a	0	Italy, etc. (658)
<i>Catocala sponsa</i> (Linnaeus, 1767)	658	1	
<i>Catocala fraxini</i> (Linnaeus, 1758)	658	2	
<i>Catocala nupta</i> (Linnaeus, 1767)	658	2	
<i>Catocala elocata</i> (Esper, 1787)	n/a	0	Italy, etc. (658)
<i>Catocala electa</i> (Vieweg, 1790)	658	2	
<i>Catocala promissa</i> (Denis & Schiffermüller, 1775)	n/a	0	Finland, etc. (658)
<i>Catocala pacta</i> (Linnaeus, 1758)	n/a	0	Finland, etc. (658)
<i>Catocala conversa</i> (Esper, 1783)**	n/a	0	Spain, Italy (658)
<i>Catocala nymphaea</i> (Esper, 1787)**	658	1	
<i>Catocala fulminea</i> (Scopoli, 1763)	658	4	

Erebidae: Aventiinae, Herminiinae, Hypeninae, Phytometrinae, Rivulinae, Boletobiinae, Hypenodinae, Eubleminae

Species	mfl	n	origins supplementary material (mfl)
<i>Trisateles emortualis</i> (Denis & Schiffermüller, 1775)	658	6	
<i>Laspeyria flexula</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Paracolax tristalis</i> (Fabricius, 1794)	n/a	0	Italy, Finland (658)
<i>Idia calvaria</i> (Denis & Schiffermüller, 1775)	n/a	0	Italy (658)
<i>Macrochilo cribrumalis</i> (Hübner, 1793)	658	2	
<i>Simplicia rectalis</i> (Eversmann, 1842)	n/a	0	
<i>Polypogon tentacularia</i> (Linnaeus, 1758)	658	3	
<i>Polypogon lunalis</i> (Scopoli, 1763)	n/a	0	Italy, Finland (658)
<i>Polypogon zelleralis</i> (Wocke, 1850)	n/a	0	Italy (627)
<i>Polypogon tarsicrinalis</i> (Knoch, 1782)	658	2	
<i>Polypogon tarsipennalis</i> Treitschke, 1835	658	4	
<i>Polypogon grisealis</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Polypogon tenuialis</i> (Rebel, 1899)	n/a	0	
<i>Polypogon strigilata</i> (Linnaeus, 1758)	658	6	
<i>Polypogon plumigeralis</i> Hübner, 1825	n/a	0	Italy, France (658)
<i>Hypena crassalis</i> (Fabricius, 1787)	603	1	Austria, Finland (658)
<i>Hypena lividalis</i> (Hübner, 1796)**	n/a	0	Italy (658)
<i>Hypena proboscidalis</i> (Linnaeus, 1758)	658	4	
<i>Hypena rostralis</i> (Linnaeus, 1758)	658	5	
<i>Hypena obesalis</i> Treitschke, 1829	658	3	
<i>Hypena obsitalis</i> (Hübner, 1813)**	n/a	0	United Kingdom (658)
<i>Phytometra viridaria</i> (Clerck, 1759)	658	2	
<i>Colobochyla salicalis</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Rivula sericealis</i> (Scopoli, 1763)	658	1	
<i>Parascotia fuliginaria</i> (Linnaeus, 1761)	658	6	
<i>Hypenodes humidalis</i> Doubleday, 1850	658	3	
<i>Schrankia taenialis</i> (Hübner, 1809)	n/a	0	Latvia (658)
<i>Schrankia costastrigalis</i> (Stephens, 1834)	n/a	0	Germany*, Italy, Hungary (658)
<i>Eublemma ostrina</i> (Hübner, 1808)**	n/a	0	Italy, France, Spain (658)
<i>Eublemma parva</i> (Hübner, 1808)**	658	2	
<i>Eublemma minutata</i> (Fabricius, 1794)	n/a	0	Finland*, Estonia*, Russia* (/)
<i>Eublemma purpurina</i> (Denis & Schiffermüller, 1775)**	n/a	0	France, Italy, Bulgaria (658)

Nolidae

Species	mfl	n	Origins supplementary material (mfl)
<i>Manoba albula</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Manoba strigula</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Manoba togatulalis</i> (Hübner, 1796)	n/a	0	Italy, Turkey* (658)
<i>Nola aerugula</i> (Hübner, 1793)	n/a	0	Germany*, Finland (658)
<i>Nola cristatula</i> (Hübner, 1793)	658	9	
<i>Nola subchlamydula</i> Staudinger, 1871	658	1	
<i>Nola chlamitulalis</i> (Hübner, 1813)	n/a	0	Italy, Turkey*, Israel*, Morocco* (631)
<i>Nola confusalis</i> (Herrich-Schäffer, 1847)	658	10	
<i>Nola cicatricalis</i> (Treitschke, 1835)	n/a	0	Germany*, Macedonia*, Serbia, etc. (658)
<i>Nola cucullatella</i> (Linnaeus, 1758)	658	3	
<i>Nola squalida</i> Staudinger, 1871	n/a	0	Spain*, Macedonia*, etc. (/)
<i>Nycteola revayana</i> (Scopoli, 1772)	658	5	
<i>Nycteola degenerana</i> (Hübner, 1799)	658	1	
<i>Nycteola siculana</i> (Fuchs, 1899)	n/a	0	Italy (658)

<i>Nycteola asiatica</i> (Krulikovsky, 1904)**	n/a	0	Germany*, Finland, Italy (658)
<i>Bena bicolorana</i> (Fuessly, 1775)	528	1	Finland (658)
<i>Pseudoips prasinana</i> (Linnaeus, 1758)	658	5	
<i>Earias clorana</i> (Linnaeus, 1761)	658	2	
<i>Earias vernana</i> (Fabricius, 1787)	n/a	0	Italy (658)

Noctuidae: Plusiinae

Species	mfl	n	origins supplementary material (mfl)
<i>Abrostola triplasia</i> (Linnaeus, 1758)	658	3	
<i>Abrostola asclepiadis</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Abrostola tripartita</i> (Hufnagel, 1766)	658	4	
<i>Trichoplusia ni</i> (Hübner, 1803)**	n/a	0	Italy (658)
<i>Chrysodeixis chalcites</i> (Esper, 1789)**	n/a	0	Italy (658)
<i>Polychrysia moneta</i> (Fabricius, 1787)	n/a	0	Germany*, Italy, Finland (658)
<i>Panchrysia v-argenteum</i> (Esper, 1798)	658	4	
<i>Euchalcia consona</i> (Fabricius, 1787)	n/a	0	
<i>Euchalcia variabilis</i> (Piller, 1783)	658	3	
<i>Euchalcia modestoides</i> Poole, 1989	n/a	0	Germany*, Finland (658)
<i>Plusidia cheiranthi</i> (Tauscher, 1809)	n/a	0	
<i>Lamprotes c-aureum</i> (Knoch, 1781)	658	2	
<i>Macdunnoughia confusa</i> (Stephens, 1850)	658	2	
<i>Diachrysia chryson</i> (Esper, 1789)	658	2	
<i>Diachrysia chrysitis</i> (Linnaeus, 1758)	658	5	
<i>Diachrysia stenochrysis</i> (Warren, 1913)	658	5	
<i>Autographa gamma</i> (Linnaeus, 1758)	658	6	
<i>Autographa pulchrina</i> (Haworth, 1809)	658	9	
<i>Autographa buraetica</i> (Staudinger, 1892)	658	2	
<i>Autographa mandarina</i> (Freyer, 1845)	n/a	0	Finland (658)
<i>Autographa jota</i> (Linnaeus, 1758)	307	2	Italy, Finland (658)
<i>Autographa aemula</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Autographa bractea</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Plusia putnami gracilis</i> (Lempke, 1966)	658	3	
<i>Plusia festucae</i> (Linnaeus, 1758)	n/a	0	Finland (658)
<i>Syngrapha interrogationis</i> (Linnaeus, 1758)	658	1	
<i>Syngrapha ain</i> (Hochenwarth, 1785)	n/a	0	Germany*, France, Switzerland, etc. (658)
<i>Syngrapha microgamma</i> (Hübner, 1823)	n/a	0	Finland, Canada (658)
<i>Syngrapha hohenwarthi</i> (Hochenwarth, 1785)	n/a	0	Austria, Switzerland, Finland (658)

Noctuidae: Eustroitiinae, Acontiinae, Aediinae, Pantheinae, Dilobinae, Acronictinae, Metoponiinae

Species	mfl	n	origins supplementary material (mfl)
<i>Phyllophila obliterata</i> (Rambur, 1833)**	n/a	0	
<i>Deltote pygarga</i> (Hufnagel, 1766)	658	4	
<i>Deltote uncula</i> (Clerck, 1759)	658	1	
<i>Deltote bankiana</i> (Fabricius, 1775)	658	5	
<i>Deltote deceptoria</i> (Scopoli, 1763)	658	4	
<i>Acontia lucida</i> (Hufnagel, 1766)	n/a	0	Italy, Greece, Spain, etc. (658)
<i>Acontia trabealis</i> (Scopoli, 1763)	658	1	
<i>Aedia funesta</i> (Esper, 1786)	n/a	0	Russia*, Russia, Serbia (658)
<i>Aedia leucomelas</i> (Linnaeus, 1758)** (1)	658	1	
<i>Panthea coenobita</i> (Esper, 1785)	658	4	
<i>Trichosea ludifica</i> (Linnaeus, 1758)	658	3	
<i>Colocasia coryli</i> (Linnaeus, 1758)	658	2	

<i>Diloba caeruleocephala</i> (Linnaeus, 1758)	658	1	
<i>Moma alpium</i> (Osbeck, 1778)	658	2	
<i>Acronicta leporina</i> (Linnaeus, 1758)	658	4	
<i>Acronicta aceris</i> (Linnaeus, 1758)	658	2	
<i>Acronicta strigosa</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Acronicta tridens</i> (Denis & Schiffermüller, 1775)	n/a	0	Finland*, U.K., Serbia etc. (658)
<i>Acronicta psi</i> (Linnaeus, 1758)	658	5	
<i>Acronicta cuspis</i> (Hübner, 1813)	658	1	
<i>Acronicta alni</i> (Linnaeus, 1767)	658	6	
<i>Acronicta megacephala</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Acronicta menyanthidis</i> (Esper, 1789)	658	3	
<i>Acronicta auricoma</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Acronicta cinerea</i> (Hufnagel, 1766)	n/a	0	Finland (658)
<i>Acronicta euphorbiae</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Acronicta rumicis</i> (Linnaeus, 1758)	658	3	
<i>Simyra nervosa</i> (Denis & Schiffermüller, 1775)	n/a	0	
<i>Simyra albovenosa</i> (Goeze, 1781)	658	2	
<i>Craniophora ligustri</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Panemeria tenebrata</i> (Scopoli, 1763)	658	3	
<i>Tyta luctuosa</i> (Denis & Schiffermüller, 1775)	658	3	

(1) first record for the fauna of Germany: 1 male, Bavaria, Munich-Allach, 12.VIII.2003, leg. K. Ambil/A. Hausmann, coll. ZSM, probably by anthropogenous transport.

Noctuidae: Cuculliinae, Oncocnemidinae

Species	mfl	n	origins supplementary material (mfl)
<i>Cucullia praecana</i> Eversmann, 1843	n/a	0	
<i>Cucullia fraudatrix</i> Eversmann, 1837	n/a	0	Finland (658)
<i>Cucullia absinthii</i> (Linnaeus, 1761)	658	2	
<i>Cucullia argentea</i> (Hufnagel, 1766)	n/a	0	Finland (658)
<i>Cucullia artemisiae</i> (Hufnagel, 1766)	658	1	
<i>Cucullia gnaphalii</i> (Hübner, 1813)	n/a	0	Finland* (/)
<i>Cucullia lactucae</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Cucullia lucifuga</i> (Denis & Schiffermüller, 1775)	658	5	
<i>Cucullia umbratica</i> (Linnaeus, 1758)	658	7	
<i>Cucullia campanulae</i> Freyer, 1831	658	1	
<i>Cucullia chamomillae</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Cucullia boryphora</i> Fischer de Waldheim, 1840**	n/a	0	
<i>Cucullia xeranthemi</i> Boisduval, 1840	n/a	0	
<i>Cucullia tanacetii</i> (Denis & Schiffermüller, 1775)	n/a	0	Russia*, Serbia (658)
<i>Cucullia dracunculi</i> (Hübner, 1813)	658	1	
<i>Cucullia asteris</i> (Denis & Schiffermüller, 1775)	n/a	0	Finland (658)
<i>Shargacucullia caninae</i> Rambur, 1833**	n/a	0	Italy (658)
<i>Shargacucullia scrophulariae</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Shargacucullia lanceolata</i> (de Villers, 1789)	n/a	0	
<i>Shargacucullia lychnitis</i> Rambur, 1833	658	1	
<i>Shargacucullia verbasci</i> (Linnaeus, 1758)	658	1	
<i>Shargacucullia prenanthis</i> Boisduval, 1840	658	1	
<i>Calophasia lunula</i> (Hufnagel, 1766)	658	1	
<i>Omphalophana antirrhinii</i> (Hübner, 1803)**	n/a	0	Italy, France (658)
<i>Sympistis nigrita</i> (Boisduval, 1840)	658	1	
<i>Calliergis ramosa</i> (Esper, 1786)	658	3	
<i>Lamprosticta culta</i> (Denis & Schiffermüller, 1775)	n/a	0	Serbia (658)
<i>Stilbia anomala</i> (Haworth, 1812)	n/a	0	Italy (658)

Xylocampa areola (Esper, 1789)

n/a 0 United Kingdom (658)

Noctuidae: Amphipyrinae, Psaphidiinae, Heliiothinae, Condicinae, Eriopinae, Bryophilinae

Species	mfl	N	origins supplementary material (mfl)
<i>Amphipyra cinnamomea</i> (Goeze, 1781)	n/a	0	
<i>Amphipyra tragopoginis</i> (Clerck, 1759)	658	3	
<i>Amphipyra berbera</i> Rungs, 1949	658	4	
<i>Amphipyra pyramidea</i> (Linnaeus, 1758)	658	6	
<i>Amphipyra perflua</i> (Fabricius, 1787)	658	4	
<i>Amphipyra livida</i> (Denis & Schiffermüller, 1775)	n/a	0	Bulgaria (632)
<i>Amphipyra tetra</i> (Fabricius, 1787)	n/a	0	Italy, Spain (658)
<i>Meganephria bimaculosa</i> (Linnaeus, 1767)	n/a	0	
<i>Allophyes oxyacanthae</i> (Linnaeus, 1758)	658	4	
<i>Valeria jaspidea</i> (de Villers, 1789)	n/a	0	
<i>Valeria oleagina</i> (Denis & Schiffermüller, 1775)	n/a	0	Italy, Serbia (658)
<i>Brachionycha nubeculosa</i> (Esper, 1785)	658	4	
<i>Asteroscopus sphinx</i> (Hufnagel, 1766)	658	2	
<i>Periphanes delphinii</i> (Linnaeus, 1758)	n/a	0	Serbia (658)
<i>Pyrrhia umbra</i> (Hufnagel, 1766)	658	3	
<i>Protoschia scutosa</i> (Denis & Schiffermüller, 1775)	n/a	0	Finland (638)
<i>Heliiothis ononis</i> (Denis & Schiffermüller, 1775)	n/a	0	Germany*, Russia*, Canada (658)
<i>Heliiothis viriplaca</i> (Hufnagel, 1766)	658	2	
<i>Heliiothis maritima</i> de Graslin, 1855	n/a	0	Denmark (658)
<i>Heliiothis adaucta</i> Butler, 1878	658	1	
<i>Heliiothis peltigera</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Heliiothis nubigera</i> Herrich-Schäffer, 1851**	n/a	0	Italy, Finland, Spain (658)
<i>Helicoverpa armigera</i> (Hübner, 1808)	658	4	
<i>Acosmetia caliginosa</i> (Hübner, 1813)	n/a	0	
<i>Eucarta amethystina</i> (Hübner, 1803)	n/a	0	Serbia* (/)
<i>Eucarta virgo</i> (Treitschke, 1835)	n/a	0	Finland (658)
<i>Callopietria juventina</i> (Stoll, 1782)	n/a	0	Italy, Serbia (658)
<i>Cryphia fraudatricula</i> (Hübner, 1803)	n/a	0	
<i>Cryphia algae</i> (Fabricius, 1775)	658	4	
<i>Bryophila ravula</i> (Hübner, 1813)	n/a	0	Spain (658)
<i>Bryophila ereptricula</i> Treitschke, 1825	n/a	0	Germany*, Italy* (/)
<i>Bryophila raptricula</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Bryophila domestica</i> (Hufnagel, 1766)	658	2	
<i>Nyctobrya muralis</i> (Forster, 1771)	n/a	0	U.K., Italy, Spain, etc. (658)

Noctuidae: Xyleninae

Species	mfl	n	origins supplementary material (mfl)
<i>Pseudeustrotia candidula</i> (Denis & Schiffermüller, 1775)	n/a	0	Finland (658)
<i>Spodoptera exigua</i> (Hübner, 1808)	658	3	
<i>Spodoptera littoralis</i> (Boisduval, 1833)**	n/a	0	Italy (658)
<i>Elaphria venustula</i> (Hübner, 1790)	658	4	
<i>Caradrina morpheus</i> (Hufnagel, 1766)	658	2	
<i>Caradrina kadenii</i> Freyer, 1836	658	1	
<i>Caradrina aspersa</i> Rambur, 1834	n/a	0	Italy (658)
<i>Caradrina ingrata</i> Staudinger, 1897**	n/a	0	
<i>Caradrina gilva</i> (Donzel, 1837)	658	2	
<i>Caradrina selini</i> Boisduval, 1840	658	1	
<i>Caradrina clavipalpis</i> (Scopoli, 1763)	658	2	

<i>Hoplodrina octogenaria</i> (Goeze, 1781)	658	5	
<i>Hoplodrina blanda</i> (Denis & Schiffermüller, 1775)	658	6	
<i>Hoplodrina superstes</i> (Ochsenheimer, 1816)	658	2	
<i>Hoplodrina respersa</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Hoplodrina ambigua</i> (Denis & Schiffermüller, 1775)	658	6	
<i>Chilodes maritima</i> (Tauscher, 1806)	658	2	
<i>Charanyca trigrammica</i> (Hufnagel, 1766)	658	2	
<i>Charanyca ferruginea</i> (Esper, 1785)	658	3	
<i>Athetis gluteosa</i> (Treitschke, 1835)**	n/a	0	Finland (658)
<i>Athetis pallustris</i> (Hübner, 1808)	658	1	
<i>Athetis hospes</i> (Freyer, 1831)**	n/a	0	Italy (658)
<i>Enargia paleacea</i> (Esper, 1788)	658	3	
<i>Ipimorpha retusa</i> (Linnaeus, 1761)	658	2	
<i>Ipimorpha subtusa</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Ipimorpha contusa</i> (Freyer, 1849)	n/a	0	Finland* (/)
<i>Cosmia diffinis</i> (Linnaeus, 1767)	658	1	
<i>Cosmia affinis</i> (Linnaeus, 1767)	627	1	Italy (658)
<i>Cosmia trapezina</i> (Linnaeus, 1758)	658	6	
<i>Cosmia pyralina</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Dicycla oo</i> (Linnaeus, 1758)	n/a	0	Germany*, Italy (658)
<i>Atethmia ambusta</i> (Denis & Schiffermüller, 1775)	n/a	0	Bulgaria (658)
<i>Atethmia centrago</i> (Haworth, 1809)	658	3	
<i>Dypterygia scabriuscula</i> (Linnaeus, 1758)	658	2	
<i>Mormo maura</i> (Linnaeus, 1758)	658	1	
<i>Polyphaenis sericata</i> (Esper, 1787)	658	1	
<i>Thalpophila matura</i> (Hufnagel, 1766)	658	3	
<i>Trachea atriplicis</i> (Linnaeus, 1758)	658	2	
<i>Hyppa rectilinea</i> (Esper, 1788)	658	4	
<i>Actinotia polyodon</i> (Clerck, 1759)	658	2	
<i>Actinotia radiosia</i> (Esper, 1804)	n/a	0	Italy (658)
<i>Chloantha hyperici</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Euplexia lucipara</i> (Linnaeus, 1758)	658	3	
<i>Auchmis detera</i> (Esper, 1787)	658	2	
<i>Phlogophora meticulosa</i> (Linnaeus, 1758)	658	3	
<i>Phlogophora scita</i> (Hübner, 1790)	658	2	
<i>Apamea monoglypha</i> (Hufnagel, 1766)	658	9	
<i>Apamea sublustris</i> (Esper, 1788)	658	3	
<i>Apamea lithoxylaea</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Apamea furva</i> (Denis & Schiffermüller, 1775)	n/a	0	Austria, Italy (658)
<i>Apamea platinea</i> (Treitschke, 1825)	658	1	
<i>Apamea lateritia</i> (Hufnagel, 1766)	658	1	
<i>Apamea zeta</i> (Treitschke, 1825)	658	3	
<i>Apamea maillardi</i> (Geyer, 1834)	658	3	
<i>Apamea rubrarena</i> (Treitschke, 1825)	658	2	
<i>Apamea oblonga</i> (Haworth, 1809)	n/a	0	Finland (658)
<i>Apamea sordens</i> (Hufnagel, 1766)	658	4	
<i>Apamea anceps</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Apamea remissa</i> (Hübner, 1809)	658	1	
<i>Apamea aquila</i> Donzel, 1837	n/a	0	France (658)
<i>Apamea crenata</i> (Hufnagel, 1766)	658	8	
<i>Apamea epomidion</i> (Haworth, 1809)	658	2	
<i>Apamea unanimis</i> (Hübner, 1813)	658	1	
<i>Apamea illyria</i> Freyer, 1846	658	2	
<i>Loscopia scolopacina</i> (Esper, 1788)	658	4	

<i>Laterologia ophiogramma</i> (Esper, 1794)	658	2	
<i>Pabulatrix pabulatricula</i> (Brahm, 1791)	n/a	0	Finland (658)
<i>Oligia strigilis</i> (Linnaeus, 1758)	658	3	
<i>Oligia latruncula</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Oligia versicolor</i> (Borkhausen, 1792)	658	3	
<i>Oligia dubia</i> (Heydemann, 1942)	658	2	
<i>Oligia fasciuncula</i> (Haworth, 1809)	n/a	0	Finland (658)
<i>Mesologia furuncula</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Litoligia literosa</i> (Haworth, 1809)	n/a	0	Italy, Finland (658)
<i>Mesapamea secalis</i> (Linnaeus, 1758)	658	4	
<i>Mesapamea didyma</i> Esper, 1788	658	5	With (hybrid?) <i>remmi</i> (1 from Germany)
<i>Eremobia ochroleuca</i> (Denis & Schiffermüller, 1775)	n/a	0	Germany*, Bulgaria (648)
<i>Luperina testacea</i> (Denis & Schiffermüller, 1775)	658	8	
<i>Luperina nickerlii</i> (Freyer, 1845)	658	4	
<i>Pseudluperina pozzii</i> (Curo, 1883)**	n/a	0	France (658)
<i>Fabula zollikoferi</i> (Freyer, 1836)**	n/a	0	Finland (658)
<i>Rhizedra lutosa</i> (Hübner, 1803)	658	6	
<i>Sedina buettneri</i> (Hering, 1858)	n/a	0	Finland*, France (658)
<i>Nonagria typhae</i> (Thunberg, 1784)	658	2	
<i>Phragmatiphila nexa</i> (Hübner, 1808)	658	2	
<i>Arenostola phragmitidis</i> (Hübner, 1803)	634	1	
<i>Longalatedes elymi</i> (Treitschke, 1825)	n/a	0	Finland (658)
<i>Lenisa geminipuncta</i> (Haworth, 1809)	658	1	
<i>Archanara dissoluta</i> (Treitschke, 1825)	n/a	0	Finland (658)
<i>Archanara neurica</i> (Hübner, 1808)	658	3	
<i>Globia sparganii</i> (Esper, 1790)	658	2	
<i>Globia algae</i> (Esper, 1789)	n/a	0	Finland*, Denmark (658)
<i>Crypsedra gemmea</i> (Treitschke, 1825)	658	3	
<i>Amphipoea fucosa</i> (Freyer, 1830)	407	2	Finland (658)
<i>Amphipoea lucens</i> (Freyer, 1845)	658	3	
<i>Amphipoea ocula</i> (Linnaeus, 1761)	603	1	Austria, Finland (658)
<i>Amphipoea crinanensis</i> (Burrows, 1908)	n/a	0	Finland (658)
<i>Hydraecia micacea</i> (Esper, 1789)	658	1	
<i>Hydraecia ultima</i> Holst, 1965	n/a	0	Finland (658)
<i>Hydraecia petasitis</i> Doubleday, 1847	658	1	
<i>Gortyna flavago</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Gortyna borelii</i> Pierret, 1837	n/a	0	
<i>Helotropha leucostigma</i> (Hübner, 1808)	658	1	
<i>Calamia tridens</i> (Hufnagel, 1766)	658	2	
<i>Staurophora celsia</i> (Linnaeus, 1758)	658	2	
<i>Denticucullus pygmina</i> (Haworth, 1809)	658	3	
<i>Photedes captiuncula</i> (Treitschke, 1825)	630	1	
<i>Photedes fluxa</i> (Hübner, 1809)	658	2	
<i>Photedes minima</i> (Haworth, 1809)	658	4	
<i>Photedes morrisii</i> (Dale, 1837)	n/a	0	France (658)
<i>Photedes extrema</i> (Hübner, 1809)	658	2	
<i>Protarchanara brevilinea</i> (Fenn, 1864)	n/a	0	Estonia* (/)
<i>Coenobia rufa</i> (Haworth, 1809)	n/a	0	United Kingdom (658)
<i>Oria muscosa</i> (Hübner, 1808)	n/a	0	
<i>Celaena haworthii</i> (Curtis, 1829)	658	1	
<i>Sesamia cretica</i> Lederer, 1857**	n/a	0	Italy (658)
<i>Episema glaucina</i> (Esper, 1789)	n/a	0	Italy (658)
<i>Cleoceris scoriacea</i> (Esper, 1789)	n/a	0	
<i>Brachylochia viminalis</i> (Fabricius, 1776)	658	3	

<i>Parastichtis suspecta</i> (Hübner, 1817)	658	1	
<i>Apterogeton ypsilon</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Atypha pulmonaris</i> (Esper, 1790)	658	5	
<i>Tiliacea aurago</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Tiliacea sulphurago</i> (Denis & Schiffermüller, 1775)	n/a	0	Bulgaria (658)
<i>Tiliacea citrigo</i> (Linnaeus, 1758)	658	4	
<i>Xanthia togata</i> (Esper, 1788)	658	1	
<i>Xanthia ruticilla</i> (Esper, 1791)	n/a	0	Italy (658)
<i>Cirrhia gilvago</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Cirrhia ocellaris</i> (Borkhausen, 1792)	658	2	
<i>Cirrhia icteritia</i> (Hufnagel, 1766)	658	3	
<i>Agrochola lychnidis</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Agrochola humilis</i> (Denis & Schiffermüller, 1775)	n/a	0	Bulgaria (658)
<i>Agrochola nitida</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Agrochola helvola</i> (Linnaeus, 1758)	658	3	
<i>Agrochola litura</i> (Linnaeus, 1761)	658	2	
<i>Agrochola lunosa</i> (Haworth, 1809)	n/a	0	
<i>Agrochola macilenta</i> (Hübner, 1809)	658	2	
<i>Agrochola lota</i> (Clerck, 1759)	658	2	
<i>Agrochola circellaris</i> (Hufnagel, 1766)	658	4	
<i>Agrochola laevis</i> (Hübner, 1803)	658	1	
<i>Conistra vaccinii</i> (Linnaeus, 1761)	658	3	
<i>Conistra ligula</i> (Esper, 1791)	658	3	
<i>Conistra veronicae</i> (Hübner, 1813)	n/a	0	Bulgaria (658)
<i>Conistra rubiginosa</i> (Scopoli, 1763)	658	1	
<i>Conistra rubiginea</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Conistra erythrocephala</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Jodia croceago</i> (Denis & Schiffermüller, 1775)	n/a	0	Bulgaria (458)
<i>Lithophane semibrunnea</i> (Haworth, 1809)	658	1	
<i>Lithophane socia</i> (Hufnagel, 1766)	658	2	
<i>Lithophane ornitopus</i> (Hufnagel, 1766)	658	5	
<i>Lithophane furcifera</i> (Hufnagel, 1766)	658	4	
<i>Lithophane lamda</i> (Fabricius, 1787)	658	1	
<i>Lithophane consocia</i> (Borkhausen, 1792)	n/a	0	Germany*, Finland (658)
<i>Xylena vetusta</i> (Hübner, 1813)	658	3	
<i>Xylena exsoleta</i> (Linnaeus, 1758)	n/a	0	Sweden, Denmark, Serbia (658)
<i>Xylena solidaginis</i> (Hübner, 1803)	658	4	
<i>Orbona fragariae</i> Vieweg, 1790	606	2	
<i>Eupsilia transversa</i> (Hufnagel, 1766)	658	2	
<i>Eremohadena immunda</i> (Eversmann, 1842)**	n/a	0	Russia* (/)
<i>Griposia aprilina</i> (Linnaeus, 1758)	658	5	
<i>Dichonia convergens</i> (Denis & Schiffermüller, 1775)	n/a	0	Italy* (/)
<i>Dichonia aeruginea</i> (Hübner, 1808)	n/a	0	
<i>Dryobotodes eremita</i> (Fabricius, 1775)	658	1	
<i>Antitype chi</i> (Linnaeus, 1758)	658	1	
<i>Ammoconia caecimacula</i> (Denis & Schiffermüller, 1775)	658	5	
<i>Ammoconia senex</i> (Geyer, 1828)	n/a	0	Greece, Bulgaria (658)
<i>Aporophyla lutulenta</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Aporophyla lueneburgensis</i> (Freyer, 1848)	658	1	
<i>Aporophyla nigra</i> (Haworth, 1809)	658	1	
<i>Dasypolia templi</i> (Thunberg, 1792)	658	2	
<i>Polymixis polymita</i> (Linnaeus, 1761)	n/a	0	Italy, Finland (658)
<i>Polymixis xanthomista</i> (Hübner, 1819)	658	1	
<i>Polymixis flavicincta</i> (Denis & Schiffermüller, 1775)	n/a	0	United Kingdom (658)

<i>Polymixis rufocincta</i> (Geyer, 1828)	n/a	0	Italy, Macedonia, Bulgaria (658)
<i>Blepharita amica</i> (Treitschke, 1825)	n/a	0	Finland (658)
<i>Mniotype solieri</i> (Boisduval, 1829)**	n/a	0	Italy (658)
<i>Mniotype adusta</i> (Esper, 1790)	658	2	
<i>Mniotype satura</i> (Denis & Schiffermüller, 1775)	658	5	
<i>Mesogona acetosellae</i> (Denis & Schiffermüller, 1775)	n/a	0	Italy (658)
<i>Mesogona oxalina</i> (Hübner, 1803)	658	3	

Noctuidae: Hadeninae

Species	mfl	n	origins supplementary material (mfl)
<i>Perigrapha munda</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Orthosia incerta</i> (Hufnagel, 1766)	658	2	
<i>Orthosia gothica</i> (Linnaeus, 1758)	658	5	
<i>Orthosia gracilis</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Orthosia opima</i> (Hübner, 1809)	658	3	
<i>Orthosia cerasi</i> (Fabricius, 1775)	658	2	
<i>Orthosia populeti</i> (Fabricius, 1775)	658	4	
<i>Orthosia miniosa</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Orthosia cruda</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Egira conspicillaris</i> (Linnaeus, 1758)	658	1	
<i>Panolis flammea</i> (Denis & Schiffermüller, 1775)	658	5	
<i>Tholera cespitis</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Tholera decimalis</i> (Poda, 1761)	658	3	
<i>Cerapteryx graminis</i> (Linnaeus, 1758)	658	4	
<i>Anarta odontites</i> (Boisduval, 1829)	658	3	
<i>Anarta trifolii</i> (Hufnagel, 1766)	658	6	
<i>Anarta melanopa</i> (Thunberg, 1791)	n/a	0	Germany*, Switzerland*, Norway (658)
<i>Anarta myrtilli</i> (Linnaeus, 1761)	658	3	
<i>Coranarta cordigera</i> (Thunberg, 1788)	658	1	
<i>Polia bombycina</i> (Hufnagel, 1766)	658	3	
<i>Polia trimaculosa</i> (Esper, 1788)	658	2	
<i>Polia nebulosa</i> (Hufnagel, 1766)	658	2	
<i>Pachetra sagittigera</i> (Hufnagel, 1766)	658	2	
<i>Lacanobia w-latinum</i> (Hufnagel, 1766)	658	4	
<i>Lacanobia splendens</i> (Hübner, 1808)	n/a	0	Russia* (/)
<i>Lacanobia aliena</i> (Hübner, 1809)	658	2	
<i>Lacanobia oleracea</i> (Linnaeus, 1758)	658	3	
<i>Lacanobia thalassina</i> (Hufnagel, 1766)	658	9	
<i>Lacanobia suasa</i> (Denis & Schiffermüller, 1775)	658	6	
<i>Lacanobia contigua</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Melanchnra persicariae</i> (Linnaeus, 1761)	658	3	
<i>Ceramica pisi</i> (Linnaeus, 1758)	658	6	
<i>Papestra biren</i> (Goeze, 1781)	658	4	
<i>Hada plebeja</i> (Linnaeus, 1761)	658	3	
<i>Mamestra brassicae</i> (Linnaeus, 1758)	658	4	
<i>Sideridis lampira</i> (Schawerda, 1913)	n/a	0	Italy (658)
<i>Sideridis turbida</i> (Esper, 1790)	658	1	
<i>Sideridis rivularis</i> (Fabricius, 1775)	658	4	
<i>Sideridis reticulata</i> (Goeze, 1781)	658	2	
<i>Sideridis kitti</i> (Schawerda, 1914)	n/a	0	
<i>Hecatera bicolorata</i> (Hufnagel, 1766)	658	2	
<i>Hecatera dysodea</i> (Denis & Schiffermüller, 1775)	658	5	
<i>Conisania leineri</i> (Freyer, 1836)	n/a	0	

<i>Sideridis luteago</i> (Denis & Schiffermüller, 1775)	n/a	0	Serbia, Italy*, Russia*, Finland* (658)
<i>Hadena bicruris</i> (Hufnagel, 1766)	658	2	
<i>Hadena capsincola</i> (Denis & Schiffermüller, 1775)	n/a	0	Finland (658)
<i>Hadena magnolii</i> (Boisduval, 1829)	n/a	0	Italy (658)
<i>Hadena compta</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Hadena confusa</i> (Hufnagel, 1766)	658	2	
<i>Hadena albimacula</i> (Borkhausen, 1792)	658	3	
<i>Hadena filograna</i> (Esper, 1788)	n/a	0	
<i>Hadena caesia</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Hadena irregularis</i> (Hufnagel, 1766)	n/a	0	Italy (658)
<i>Hadena perplexa</i> (Denis & Schiffermüller, 1775)	658	5	
<i>Hadena tephroleuca</i> (Boisduval, 1833)	n/a	0	Italy (658)
<i>Mythimna turca</i> (Linnaeus, 1761)	658	2	
<i>Mythimna pudorina</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Mythimna conigera</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Mythimna pallens</i> (Linnaeus, 1758)	658	2	
<i>Mythimna favicolor</i> (Barrett, 1896)	n/a	0	
<i>Mythimna impura</i> (Hübner, 1808)	658	3	
<i>Mythimna straminea</i> (Treitschke, 1825)	658	3	
<i>Mythimna vitellina</i> (Hübner, 1808)	658	2	
<i>Mythimna unipuncta</i> (Haworth, 1809)	658	2	
<i>Mythimna andereggii</i> (Boisduval, 1840)	658	3	
<i>Mythimna sicula</i> (Treitschke, 1835)	658	8	Including synonym „ <i>scirpi</i> “
<i>Mythimna languida</i> (Walker, 1858)**	n/a	0	Italy (658)
<i>Mythimna albipuncta</i> (Denis & Schiffermüller, 1775)	658	5	
<i>Mythimna ferrago</i> (Fabricius, 1787)	658	4	
<i>Mythimna litoralis</i> (Curtis, 1827)	n/a	0	Denmark (658)
<i>Mythimna congrua</i> (Hübner, 1817)**	n/a	0	Italy (541)
<i>Mythimna l-album</i> (Linnaeus, 1767)	658	2	
<i>Leucania comma</i> (Linnaeus, 1761)	658	3	
<i>Leucania obsoleta</i> (Hübner, 1803)	658	6	
<i>Leucania loreyi</i> (Duponchel, 1827)	n/a	0	Germany*, Italy (658)
<i>Senta flamma</i> (Curtis, 1828)	n/a	0	Germany*, Finland (514)
<i>Eriopygodes imbecilla</i> (Fabricius, 1794)	658	3	
<i>Lasiohada proxima</i> (Hübner, 1809)	658	3	

Noctuidae: Noctuinae

Species	mfl	n	origins supplementary material (mfl)
<i>Peridroma saucia</i> (Hübner, 1808)	n/a	0	Italy, Finland, etc. (658)
<i>Actebia praecox</i> (Linnaeus, 1758)	n/a	0	Finland (658)
<i>Actebia fennica</i> (Tauscher, 1837)	n/a	0	Finland*, Canada (658)
<i>Basistriga flammatra</i> (Denis & Schiffermüller, 1775)	n/a	0	
<i>Dichagyris musiva</i> (Hübner, 1803)	n/a	0	
<i>Dichagyris candelsequa</i> (Denis & Schiffermüller, 1775)	n/a	0	France (658)
<i>Dichagyris nigrescens</i> (Höfnér, 1888)	n/a	0	Italy (658)
<i>Dichagyris forcipula</i> (Denis & Schiffermüller, 1775)	n/a	0	Italy (658)
<i>Dichagyris signifera</i> (Denis & Schiffermüller, 1775)	n/a	0	Russia* (/)
<i>Euxoa lidia</i> (Stoll, 1782)	n/a	0	
<i>Euxoa cursoria</i> (Hufnagel, 1766)	n/a	0	Finland (658)
<i>Euxoa vitia</i> (Esper, 1789)	n/a	0	Germany*, Sweden* (/)
<i>Euxoa obelisca</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Euxoa nigrofusca</i> (Esper, 1788)	658	2	
<i>Euxoa tritici</i> (Linnaeus, 1761)	n/a	0	Italy, Finland (658)

<i>Euxoa nigricans</i> (Linnaeus, 1761)	658	2	
<i>Euxoa aquilina</i> (Denis & Schiffermüller, 1775)	619	1	
<i>Euxoa decora</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Euxoa birivia</i> (Denis & Schiffermüller, 1775)	n/a	0	France* (658)
<i>Euxoa recussa</i> (Hübner, 1817)	658	3	
<i>Agrotis bigramma</i> (Esper, 1790)	325	1	
<i>Agrotis puta</i> (Hübner, 1803)	n/a	0	Italy, Greece etc. (658)
<i>Agrotis simplonia</i> (Geyer, 1832)	658	4	
<i>Agrotis cinerea</i> (Denis & Schiffermüller, 1775)	647	1	Italy (658)
<i>Agrotis vestigialis</i> (Hufnagel, 1766)	658	1	
<i>Agrotis spinifera</i> (Hübner, 1808)**	n/a	0	Italy (306)
<i>Agrotis segetum</i> (Denis & Schiffermüller, 1775)	658	5	
<i>Agrotis clavis</i> (Hufnagel, 1766)	658	2	
<i>Agrotis exclamationis</i> (Linnaeus, 1758)	658	3	
<i>Agrotis ipsilon</i> (Hufnagel, 1766)	658	3	
<i>Agrotis ripae</i> Hübner, 1823	n/a	0	France* (658)
<i>Ochropleura plecta</i> (Linnaeus, 1761)	658	4	
<i>Ochropleura leucogaster</i> (Freyer, 1831)	n/a	0	Italy (658)
<i>Axylia putris</i> (Linnaeus, 1761)	658	4	
<i>Diarsia mendica</i> (Fabricius, 1775)	658	7	
<i>Diarsia rubi</i> (Vieweg, 1790)	658	4	
<i>Diarsia florida</i> (Schmidt, 1859)	658	2	
<i>Diarsia dahlia</i> (Hübner, 1813)	n/a	0	Finland (658)
<i>Diarsia brunnea</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Cerastis rubricosa</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Cerastis leucographa</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Paradiarsia punicea</i> (Hübner, 1803)	571	1	
<i>Lycophotia molothina</i> (Esper, 1789)	658	1	
<i>Lycophotia porphyrea</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Rhyacia helvetina</i> (Boisduval, 1833)	625	2	Austria, Italy, France (658)
<i>Rhyacia simulans</i> (Hufnagel, 1766)	658	2	
<i>Rhyacia lucipeta</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Rhyacia latens</i> (Hübner, 1809)	658	1	
<i>Rhyacia grisescens</i> (Fabricius, 1794)	658	2	
<i>Chersotis ocellina</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Chersotis multangula</i> (Hübner, 1803)	658	3	
<i>Chersotis cuprea</i> (Denis & Schiffermüller, 1775)	658	3	
<i>Chersotis margaritacea</i> (de Villers, 1789)	658	1	
<i>Standfussiana lucernea</i> (Linnaeus, 1758)	658	2	
<i>Noctua pronuba</i> Linnaeus, 1758	658	3	
<i>Noctua fimbriata</i> (Schreber, 1759)	658	4	
<i>Noctua orbona</i> (Hufnagel, 1766)	n/a	0	Italy, Finland, Spain (658)
<i>Noctua interposita</i> (Hübner, 1790)	658	4	
<i>Noctua comes</i> Hübner, 1813	658	7	
<i>Noctua janthina</i> Denis & Schiffermüller, 1775	658	19	
<i>Noctua janthe</i> (Borkhausen, 1792)	658	19	
<i>Noctua interjecta</i> Hübner, 1803	658	7	
<i>Epilecta linogrisea</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Spaelotis ravida</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Spaelotis suecica</i> (Aurivillius, 1890)	n/a	0	Finland, Russia (658)
<i>Opigena polygona</i> (Denis & Schiffermüller, 1775)	658	4	
<i>Eurois occulta</i> (Linnaeus, 1758)	658	4	
<i>Graphiphora augur</i> (Fabricius, 1775)	658	3	
<i>Anaplectoides prasina</i> (Denis & Schiffermüller, 1775)	658	5	

<i>Xestia ochreago</i> (Hübner, 1809)	658	1	
<i>Xestia baja</i> (Denis & Schiffermüller, 1775)	658	1	
<i>Xestia stigmatica</i> (Hübner, 1813)	658	4	
<i>Xestia triangulum</i> (Hufnagel, 1766)	658	2	
<i>Xestia castanea</i> (Esper, 1798)	658	2	
<i>Xestia agathina</i> (Duponchel, 1827)	n/a	0	United Kingdom (658)
<i>Xestia collina</i> (Boisduval, 1840)	n/a	0	Germany*, Finland, Norway (658)
<i>Xestia sexstrigata</i> (Haworth, 1809)	658	3	
<i>Xestia xanthographa</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Xestia c-nigrum</i> (Linnaeus, 1758)	658	3	
<i>Xestia ditrapezium</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Xestia ashworthii</i> (Doubleday, 1855)	658	2	
<i>Xestia speciosa</i> (Hübner, 1813)	645	1	Austria, Italy, Finland (658)
<i>Xestia alpicola</i> (Zetterstedt, 1839)	n/a	0	Austria, Italy, Finland (658)
<i>Xestia lorezi</i> (Staudinger, 1891)	n/a	0	Austria, Finland (658)
<i>Xestia sincera</i> (Herrich-Schäffer, 1851)	n/a	0	Finland (658)
<i>Xestia rhaetica</i> (Staudinger, 1871)	n/a	0	Germany*, Austria, Italy (331)
<i>Eugraphe sigma</i> (Denis & Schiffermüller, 1775)	658	2	
<i>Eugnorisma glareosa</i> (Esper, 1788)	658	2	
<i>Metagnorisma depuncta</i> (Linnaeus, 1761)	658	4	
<i>Coenophila subrosea</i> (Stephens, 1829)	658	1	
<i>Protolampira sobrina</i> (Duponchel, 1843)	658	2	
<i>Naenia typica</i> (Linnaeus, 1758)	658	4	

Rhopalocera + Macroheterocera (Fauna Germanica) species total: 1338

Rhopalocera + Macroheterocera (Fauna Germanica) with sequences: 1264 (94.5 %)

Rhopalocera + Macroheterocera (Fauna Germanica) with barcodes (>500 bp): 1256

Rhopalocera + Macroheterocera (Fauna Germanica) with full fragments (658 bp): 1227

German vouchers with sequences: 3467 (957 species)

German vouchers with barcodes (>500 bp): 3261 (944 species)

German vouchers with full fragments (658 bp): 2574 (907 species)