

Supplement

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Survey on the terrestrial invertebrate fauna of Surtsey with
special emphasis on 2007–2021*Surtsey Research 16, 57-72*

Supplement S1. Land-invertebrate species and species equivalent taxa of Enthognatna, Insecta, Arachnida, Gastropoda and Annelida recorded on Surtsey during surveys 1964–2021.

	Settled	Uncertain	Not settled	Dead in drift
ARTHROPODA				
ENTOGNATHA				
COLLEMBOLA				
Hypogastruridae				
<i>Ceratophysella denticulata</i> (Bagnall, 1941)			1	
<i>Ceratophysella succinea</i> (Gisin, 1949)	1			
<i>Hypogastrura assimilis</i> (Krausbauer, 1898)		1		
<i>Hypogastrura purpurescens</i> (J.Lubbock, 1870)	1			
Neanuridae				
<i>Anurida granaria</i> (H.Nicolet, 1847)			1	
<i>Friesea mirabilis</i> (Tullberg, 1871)			1	
Onychiuridae				
<i>Mesaphorura krausbaueri</i> C.Börner, 1901		1		
<i>Mesaphorura macrochaeta</i> Rusek, 1976	1			
<i>Protaphorura armata</i> (Tullberg, 1869)		1		
<i>Thalassaphorura duplopunctata</i> (Strenzke, 1954)	1			
Isotomidae				
<i>Archisotoma besselsi</i> (A.S.Packard, 1877)	1			
<i>Desoria violacea</i> (Tullberg, 1876)			1	
<i>Folsomia fimetaria</i> (Linnaeus, 1758)			1	
<i>Folsomia quadrioculata</i> (Tullberg, 1871)			1	
<i>Halisotoma maritima</i> (Tullberg, 1871)		1		
<i>Isotoma anglicana</i> J.Lubbock, 1862	1			
<i>Isotomiella minor</i> (Schäffer, 1896)	1			
<i>Parisotoma notabilis</i> (Schäffer, 1896)	1			
<i>Proisotoma minuta</i> (Tullberg, 1871)			1	
<i>Pseudisotoma sensibilis</i> (T.Tullberg, 1877)	1			
<i>Vertagopus arboreus</i> (Linnaeus, 1758)			1	
Neelidae				
<i>Megalothorax minimus</i> V.Willem, 1900		1		
PROTURA				
Protentomidae				

<i>Protentomon thienemanni</i> Strenzke, 1942		1	
INSECTA			
MALLOPHAGA			
Menoponidae			
<i>Eidmanniella pustulosa</i> (Nitzsch, 1866)		1	
HEMIPTERA			
Saldidae			
<i>Salda littoralis</i> (Linnaeus, 1758)	1		
<i>Saldula orthochila</i> (Fieber, 1859)		1	
Corixidae			
<i>Arctocoris carinata</i> (C.Sahlberg, 1819)			x
Geocoridae			
<i>Geocoris lapponicus</i> Zetterstedt, 1838		1	
Lygaeidae			
<i>Nysius ericae</i> (Schilling, 1829)	1		
Miridae			
<i>Teratocoris saundersi</i> Douglas & Scott, 1869	1		
Cicadellidae			
<i>Macrosteles laevis</i> (Ribaut, 1927)	1		
Delphacidae			
<i>Javesella pellucida</i> (Fabricius, 1794)	1		
Drepanociphidae			
<i>Euceraphis punctipennis</i> (Zetterstedt, 1828)		1	
Aphididae			
<i>Acyrtociphon auctum</i> (Walker, 1849)	1		
<i>Hyalopterus pruni</i> (Geoffroy, 1762)		1	
Aphididae indet. spp.	1		
Pseudococcidae			
Pseudococcidae indet.	1		
Orthezidae			
<i>Arctorthezia cataphracta</i> (Olafsen 1772)		1	
THYSANOPTERA			
Thripidae			
<i>Apterothrips septicornis</i> (Trybom, 1896)	1		
<i>Aptinothrips rufus</i> (Haliday, 1836)	1		
<i>Aptinothrips stylifer</i> Trybom, 1894	1		
<i>Thrips vulgatissimus</i> Haliday, 1836	1		
NEUROPTERA			
Hemerobiidae			
<i>Wesmaelius nervosus</i> (Fabricius, 1793)		1	
Chrysopidae			
<i>Chrysoperla carnea</i> (Stephens, 1836)		1	
TRICHOPTERA			
Apataniidae			
<i>Apatania zonella</i> (Zetterstedt, 1840)		1	
Limnephilidae			
<i>Limnephilus affinis</i> Curtis, 1834			x
<i>Limnephilus elegans</i> Curtis, 1834		1	
<i>Limnephilus fenestratus</i> (Zetterstedt, 1840)		1	
<i>Limnephilus griseus</i> (Linnaeus, 1758)		1	

<i>Limnephilus sparsus</i> Curtis, 1834	1	
LEPIDOPTERA		
Tineidae		
<i>Monopis laevigella</i> (Denis & Schiffermüller, 1775)	1	
Plutellidae		
<i>Plutella xylostella</i> (Linnaeus, 1767)	1	
<i>Rhigognostis senilella</i> (Zetterstedt, 1839)	1	
Coleophoridae		
<i>Coleophora algidella</i> Staudinger, 1857	1	
Gelechiidae		
<i>Bryotropha similis</i> (Stainton, 1854)	1	
<i>Scropipalpa samadensis</i> (Pfaffenzeller, 1870)	1	
Tortricidae		
<i>Cochylis dubitana</i> (Hübner, 1796-1799)	1	
<i>Eana osseana</i> (Scopoli, 1763)	1	
Pyalidae		
<i>Pyla fusca</i> (Haworth, 1811)	1	
Crambidae		
<i>Crambus pascuella</i> Linnaeus, 1758	1	
<i>Nomophila noctuella</i> (Denis & Schiffermüller, 1775)	1	
Nymphalidae		
<i>Aglais cardui</i> (Linnaeus, 1758)	1	
<i>Vanessa atalanta</i> (Linnaeus, 1758)	1	
Geometridae		
<i>Epirrhoe alternata</i> (Müller, 1764)	1	
<i>Rheumaptera hastata</i> (Linnaeus, 1758)	1	
<i>Xanthorhoe decoloraria</i> (Esper, 1806)	1	
<i>Xanthorhoe designata</i> (Hufnagel, 1767)	1	
Noctuidae		
<i>Agrotis ipsilon</i> (Hufnagel, 1766)	1	
<i>Autographa gamma</i> (Linnaeus, 1758)	1	
<i>Cerapteryx graminis</i> Linnaeus, 1758	1	
<i>Hypocoena stigmatica</i> (Eversmann, 1855)	1	
<i>Diarsia mendica</i> Fabricius, 1775	1	
<i>Euxoa ochrogaster</i> Guenée, 1852	1	
<i>Melanchra pisi</i> (Linnaeus, 1758)	1	
<i>Noctua pronuba</i> Linnaeus, 1758	1	
<i>Peridroma saucia</i> (Hübner, 1808)	1	
<i>Phlogophora meticulosa</i> (Linnaeus, 1758)	1	
COLEOPTERA		
Carabidae		
<i>Amara quenseli</i> (Schönherr, 1806)	1	
<i>Bembidion bipunctatum</i> (Linnaeus, 1760)		x
<i>Nebria rufescens</i> (Ström, 1768)	1	
<i>Notiophilus biguttatus</i> (Fabricius, 1779)	1	
<i>Patrobus septentrionis</i> Dejean, 1828	1	
<i>Trichocellus cognatus</i> (Gyllenhal, 1827)	1	
Dytiscidae		
<i>Agabus bipustulatus</i> (Linnaeus, 1767)		x
Staphylinidae		

<i>Amischa analis</i> (Gravenhorst, 1802)	1		
<i>Atheta amicula</i> (Stephens, 1832)	1		
<i>Atheta atramentaria</i> (Gyllenhal, 1810)	1		
<i>Atheta excellens</i> (Kraatz, 1856)	1		
<i>Atheta fungi</i> (Gravenhorst, 1806)	1		
<i>Atheta graminicola</i> (Gravenhorst 1806)	1		
<i>Atheta islandica</i> (Kraatz, 1857)	1		
<i>Atheta melanocera</i> (C.G.Thomson, 1856)		1	
<i>Atheta nigra</i> (Kraatz, 1856)		1	
<i>Atheta trinitata</i> (Kraatz, 1856)		1	
<i>Atheta vestita</i> (Gravenhorst, 1806)		1	
<i>Bisnius sordidus</i> (Gravenhorst, 1802)		1	
<i>Cypha longicornis</i> (Paykull, 1800)	1		
<i>Lathrobium brunnipes</i> (Fabricius, 1792)	1		
<i>Lathrobium fulvipenne</i> (Gravenhorst, 1806)	1		
<i>Lesteva longolytrata</i> (Goeze, 1777)	1		
<i>Micralymma marinum</i> (Ström, 1783)		1	
<i>Omalium excavatum</i> Stephens 1834	1		
<i>Omalium rivulare</i> (Paykull, 1789)	1		
<i>Oxypoda haemorrhoea</i> (Mannerheim, 1830)	1		
<i>Oxypoda islandica</i> Kraatz, 1857	1		
<i>Oxypoda soror</i> C.G.Thomson, 1855		1	
<i>Parocyusa rubicunda</i> (Erichson, 1837)	1		
<i>Quedius fulvicollis</i> (Stephens, 1833)	1		
<i>Stenichnus collaris</i> (P.W.J.Müller & Kunze, 1822)	1		
<i>Tachyporus nitidulus</i> (Fabricius, 1781)		1	
Cryptophagidae			
<i>Atomaria analis</i> Erichson, 1846		1	
Lathridiidae			
<i>Latridius minutus</i> (Linnaeus, 1767)		1	
Coccinellidae			
<i>Coccinella undecimpunctata</i> Linnaeus, 1758			x
Byrrhidae			
<i>Byrrhus fasciatus</i> (Forster, 1771)	1		
Curculionidae			
<i>Barynotus squamosus</i> Germar, 1824			x
<i>Ceutorhynchus insularis</i> Dieckmann, 1971	1		
<i>Otiorhynchus arcticus</i> (Fabricius, 1780)		1	
HYMENOPTERA			
Ichneumonidae			
<i>Aclastus gracilis</i> (Thomson, 1884)	1		
<i>Acrolyta nens</i> (Hartig, 1838)	1		
<i>Atractodes ambiguus</i> Ruthe, 1859	1		
<i>Atractodes bicolor</i> Gravenhorst, 1829	1		
<i>Camptopletis</i> sp.		1	
<i>Coelichneumon impressor</i> (Zetterstedt, 1838)	1		
<i>Cratichneumon rufifrons</i> (Gravenhorst, 1829)		1	
Ctenopelmatinae Su.1		1	
Ctenopelmatinae Su.2		1	
<i>Diadegma boreale</i> Horstmann, 1980	1		

<i>Diplazon laetatorius</i> (Fabricius, 1781)	1		
Diplazontinae Su.1			1
<i>Enizemum ornatum</i> (Gravenhorst, 1829)		1	
<i>Homotherus locutor</i> (Thunberg, 1822)			1
<i>Homotherus magus</i> (Wesmael, 1855)			1
<i>Hyperbatus segmentator</i> (Holmgren, 1857)			1
<i>Ichneumon extensorius</i> Linnaeus, 1758	1		
Ichneumonidae Su.1			1
Ichneumonidae Su.2			1
Ichneumonidae Su.3			1
Ichneumonidae Su.4			1
Ichneumonidae Su.5			1
Ichneumonidae Su.6			1
Ichneumonidae Su.7			1
Ichneumonidae Su.8			1
Ichneumoninae Su.1			1
<i>Meloboris collector</i> (Thunberg, 1822)		1	
<i>Meloboris islandica</i> Hinz, 1969			1
<i>Mesoleius nivalis</i> Holmgren, 1857		1	
<i>Ophion nigricans</i> Ruthe, 1859			x
Orthocentrinae sp.A			1
<i>Orthocentrus fulvipes</i> Gravenhorst, 1829			1
<i>Phygadeuon brachyurus</i> Thomson, 1884	1		
<i>Phygadeuon cylindraceus</i> Ruthe, 1859	1		
<i>Phygadeuon detestator</i> (Thunberg, 1822)	1		
<i>Phygadeuon tricops</i> Thomson, 1884	1		
Phygadeuontinae indet.			1
<i>Pimpla arctica</i> Zetterstedt, 1838			1
<i>Pimpla flavicoxis</i> Thompson, 1877			1
<i>Pimpla sodalis</i> Ruthe, 1859			1
<i>Plectiscidea collaris</i> (Gravenhorst, 1829)			1
<i>Plectiscidea hyperborea</i> (Holmgren, 1869)		1	
<i>Plectiscidea peregrina</i> (Ruthe, 1859)			1
<i>Polytribax picticornis</i> (Ruthe, 1859)			1
<i>Saotis</i> sp.?			1
<i>Stenomacrus</i> cf. <i>affinator</i> Aubert, 1981			1
<i>Stilpnus tenebricosus</i> (Gravenhorst, 1829)	1		
<i>Sussaba pulchella</i> (Holmgren, 1858)	1		
<i>Syrphoctonus signatus</i> (Gravenhorst, 1829)	1		
<i>Syrphoctonus</i> sp.A			1
<i>Syrphoctonus</i> sp.B			1
Braconidae			
<i>Alysia manducator</i> (Panzer, 1799)	1		
Alysiinae indet.			1
Alysiinae Su.1		1	
Alysiinae Su.2			1
Alysiinae Su.3		1	
Alysiinae Su.4			1
<i>Aleiodes circumscriptus</i> (Nees, 1834)		1	
<i>Aphidius</i> sp.	1		

Aphidiinae indet. spp.	1		
<i>Aspilota</i> sp.	1		
<i>Chorebus</i> Su.1	1		
<i>Chorebus</i> sp(p).	1		
<i>Dacnusa</i> sp(p).		1	
<i>Meteorus rubens</i> (Nees, 1811)	1		
<i>Monoctonus caricis</i> (Haliday, 1833)	1		
<i>Orthostigma</i> Su.1		1	
<i>Phaerotoma</i> Su.1	1		
Figitidae			
<i>Alloxysta brachyptera</i> (Hartig, 1840)	1		
<i>Alloxysta</i> sp(p).	1		
<i>Kleidotoma</i> sp.			1
<i>Trybliographa</i> sp(p).	1		
Pteromalidae			
<i>Asaphes vulgaris</i> Walker, 1834	1		
<i>Cyrtogaster vulgaris</i> Walker, 1833	1		
Pteromalidae Su.1	1		
Pteromalidae Su.2	1		
Pteromalidae Su.3	1		
Pteromalidae Su.4		1	
Pteromalidae Su.5			1
Pteromalidae Su.6			1
Pteromalidae Su.7			1
<i>Trichomalopsis fucicola</i> (Walker, 1835)			1
Pteromalidae indet. spp.			
Eulopidae			
<i>Chrysocharis pallipes</i> (Nees, 1834)	1		
Eulophidae sp.A			1
Diapriidae			
Diapriidae Su.1			1
<i>Pantoclis trisulcata</i> Kieffer, 1907	1		
<i>Polypeza ciliata</i> (Thomson, 1859)	1		
<i>Psilus frontalis</i> (Thompson, 1859)			1
Proctotrupeidea indet.			1
Scelionidae			
Scelionidae indet.		1	
<i>Telenomus nitidulus</i> (Thomson, 1844)	1		
<i>Trimorus</i> sp.	1		
Mymaridae			
<i>Polynema atratum</i> Haliday, 1833		1	
Platygastridae			
<i>Allotropa conventus</i> Maneval, 1936			1
<i>Platygaster splendidula</i> Ruthe, 1859			1
Megaspilidae			
<i>Dendrocerus bifoveatus</i> (Kieffer, 1907)	1		
<i>Dendrocerus rectangularis</i> (Kieffer, 1907)		1	
Apidae			
<i>Bombus lucorum</i> (Linnaeus, 1761)			1
DIPTERA			

Tipulidae		
<i>Prionocera turcica</i> (Fabricius, 1787)		1
<i>Tipula confusa</i> van der Wulp, 1883	1	
<i>Tipula rufina</i> Meigen, 1818		1
Limoniidae		
<i>Dicranomyia autumnalis</i> (Staeger, 1840)		1
<i>Symplecta hybrida</i> (Meigen, 1804)	1	
Anisopodidae		
<i>Sylvicola fenestralis</i> (Scopoli, 1763)		1
Trichoceridae		
<i>Trichocera maculipennis</i> Meigen, 1818		1
Bibionidae		
<i>Bibio nigriventris</i> Haliday, 1833		1
<i>Dilophus femoratus</i> Meigen, 1804	1	
Cecidomyiidae		
Cecidomyiidae Su.1	1	
Cecidomyiidae Su.2	1	
Cecidomyiidae Su.3		1
<i>Lestremia</i> sp.	1	
Psychodidae		
Psychodidae indet.	1	
Scatopsidae		
<i>Scatopse notata</i> (Linnaeus, 1758)	1	
Sciaridae		
<i>Bradysia</i> cf. <i>nitidicollis</i> (Meigen, 1818)		1
<i>Lycoriella conspicua</i> (Winnertz, 1867)	1	
<i>Lycoriella</i> sp.		1
Sciaridae indet. spp.	1	
Mycetophilidae		
<i>Allodiopsis domestica</i> (Meigen, 1830)		1
<i>Brevicornu griseicollis</i> (Staeger, 1840)	1	
<i>Brevicornu verralli</i> (Edwards, 1925)		1
<i>Brevicornu</i> sp.		
<i>Exechia borealis</i> Lundström, 1912		1
<i>Exechia frigida</i> (Boheman, 1865)		1
<i>Exechia micans</i> Lastovka & Matile, 1974		1
<i>Exechia nigra</i> Edwards, 1925	1	
<i>Exechia pectinivalva</i> Stackelberg, 1948		1
<i>Exechia pseudofestiva</i> Lackschewitz, 1937		1
<i>Leia fascipennis</i> Meigen, 1818	1	
Keroplatidae		
<i>Macrocera nigropicea</i> Lundström, 1906	1	
<i>Macrocera parva</i> Lundström, 1914		1
Chironomidae		
<i>Chironomus</i> spp.		1
<i>Cricotopus</i> sp.		1
<i>Diamesa aberrata</i> Lundbeck, 1898		1
<i>Diamesa bertrami</i> Edwards, 1935		1
<i>Diamesa bohemani</i> Goetghebuer, 1932		1
<i>Diamesa incallida</i> (Walker, 1856)		1

<i>Diamesa zernyi</i> Edwards, 1933		1
<i>Eukiefferiella minor</i> (Edwards, 1929)		1
<i>Halocladius variabilis</i> (Staeger, 1839)	1	
<i>Macropelopia nebulosa</i> (Meigen, 1804)		1
<i>Metriocnemus eurynotus</i> (Holmgren, 1883)		1
<i>Micropsectra atrofasciata</i> (Kieffer, 1911)		1
<i>Micropsectra lindrothi</i> Goetghebuer, 1931		1
<i>Oliverida tricornis</i> (Oliver, 1976)		1
<i>Paracladopelma laminata</i> (Kieffer, 1921)		1
<i>Procladius islandicus</i> (Goetghebuer & Lindroth, 1931)		1
<i>Psectrocladius limbatellus</i> (Holmgren, 1869)		1
<i>Smitthia</i> sp.	1	
<i>Tanytarsus gracilentus</i> Holmgren, 1883		1
<i>Telmatogeton japonicus</i> Tokunaga, 1933	1	
Ceratopogonidae		
Ceratopogonidae indet. sp.		1
Simuliidae		
<i>Simulium aureum</i> (Fries, 1824)		1
<i>Simulium venum</i> (Macquart, 1826)		1
<i>Simulium vittatum</i> Zetterstedt, 1838		1
Empididae		
<i>Clinocera stagnalis</i> (Haliday, 1833)		1
<i>Rhamphomyia simplex</i> Zetterstedt, 1849	1	
Dolichopodidae		
<i>Campsicnemus armatus</i> (Zetterstedt, 1849)	1	
<i>Dolichopus plumipes</i> (Scopoli, 1763)	1	
<i>Hydrophorus viridis</i> (Meigen, 1824)		1
<i>Syntormon pallipes</i> (Fabricius, 1794)	1	
Lonchopteridae		
<i>Lonchoptera bifurcata</i> (Fallén, 1810)	1	
Syrphidae		
<i>Episyrphus balteatus</i> (De Geer, 1766)		1
<i>Eupeodes corollae</i> (Fabricius, 1794)		1
<i>Eupeodes curtus</i> (Hine, 1922)	1	
<i>Eupeodes lundbecki</i> (Soot-Ryen, 1946)	1	
<i>Eupeodes punctifer</i> (Frey, 1934)		1
<i>Helophilus pendulus</i> (Linnaeus, 1758)		1
<i>Melangyna lasiophthalma</i> (Zetterstedt, 1843)		1
<i>Melanostoma mellinum</i> (Linnaeus, 1758)	1	
<i>Parasyrphus tarsatus</i> (Zetterstedt, 1838)		1
<i>Platycheirus albimanus</i> (Fabricius, 1781)	1	
<i>Platycheirus chypeatus</i> (Meigen, 1822)	1	
<i>Platycheirus granditarsus</i> (Forster, 1771)		1
<i>Platycheirus manicatus</i> (Meigen, 1822)	1	
<i>Platycheirus islandicus</i> (Ringdahl, 1930)		1
<i>Sphaerophoria scripta</i> (Linnaeus, 1758)	1	
<i>Syrphus ribesii</i> (Linnaeus, 1758)		1
<i>Syrphus torvus</i> Osten Sacken, 1875		1
Phoridae		
<i>Megaselia parnassia</i> Disney, 1986	1	

<i>Megaselia pleuralis</i> (Wood, 1909)	1	
<i>Megaselia pumila</i> (Meigen, 1830)		1
<i>Megaselia quadriseta</i> Schmitz, 1918	1	
<i>Megaselia sordida</i> (Zetterstedt, 1838)	1	
Piophilidae		
<i>Liopiophila varipes</i> (Meigen, 1830)		1
<i>Parapiophila vulgaris</i> (Fallén, 1820)	1	
<i>Prochyliza lundbecki</i> (Duda, 1924)		1
Agromyzidae		
<i>Chromatomyia opacella</i> (Hendel, 1935)	1	
<i>Phytomyza affinis</i> Fallén, 1823		1
<i>Phytomyza fallaciosa</i> Brischke, 1881	1	
<i>Phytomyza farfarella</i> Hendel, 1935	1	
<i>Phytomyza nigra</i> (Meigen, 1830)	1	
<i>Phytomyza ranunculi</i> (Schränk, 1803)		1
Sciomyzidae		
<i>Dictya umbrarum</i> (Linnaeus, 1758)		1
<i>Pherbellia ventralis</i> (Fallén, 1820)		1
<i>Tetanocera robusta</i> Loew, 1847		1
Helcomyzidae		
<i>Heterocheila buccata</i> (Fallén, 1820)		1
Sepsidae		
<i>Themira arctica</i> (Becker, 1915)	1	
<i>Themira pusilla</i> (Zetterstedt, 1847)	1	
Coelopidae		
<i>Coelopa frigida</i> (Fabricius, 1805)	1	
Anthomyzidae		
<i>Arganthomyza socculata</i> (Zetterstedt, 1847)	1	
Chamaemyiidae		
<i>Chamaemyia geniculata</i> (Zetterstedt, 1838)	1	
Carnidae		
<i>Meoneura lamellata</i> Collin, 1930	1	
Opomyzidae		
<i>Geomyza tripunctata</i> Fallén, 1823	1	
Heleomyzidae		
<i>Heleomyza borealis</i> Boheman, 1866	1	
<i>Heleomyza serrata</i> (Linnaeus, 1758)		1
<i>Neoleria prominens</i> (Becker, 1897)	1	
<i>Tephrochlaena oraria</i> Collin, 1943		1
Chloropidae		
<i>Oscinella vindicata</i> (Meigen, 1830)	1	
<i>Thaumatomyia glabra</i> (Meigen, 1830)	1	
Drosophilidae		
<i>Drosophila funebris</i> (Fabricius, 1787)		1
<i>Scaptomyza graminum</i> (Fallén, 1823)	1	
<i>Scaptomyza pallida</i> (Zetterstedt, 1847)	1	
Sphaeroceridae		
<i>Copromyza equina</i> Fallén, 1820		1
<i>Copromyza nigrina</i> (Gimmerthal, 1847)	1	
<i>Crumomyia nigra</i> (Meigen, 1830)		1

<i>Ischiolepta pusilla</i> (Fallén, 1820)		1
<i>Leptocera fontinalis</i> (Fallén, 1826)	1	
<i>Minilimosina fungicola</i> (Haliday, 1836)	1	
<i>Minilimosina vitripennis</i> (Zetterstedt, 1847)	1	
<i>Phthitia empirica</i> (Hutton, 1901)		1
<i>Pullimosina pullula</i> (Zetterstedt, 1847)	1	
<i>Rachispoda lutosa</i> (Stenhammar, 1855)		1
<i>Spelobia clunipes</i> (Meigen, 1830)	1	
<i>Spelobia luteilabris</i> (Rondani, 1880)	1	
<i>Spelobia pseudosetaria</i> (Duda, 1918)		1
<i>Spelobia rufilabris</i> (Stenhammar, 1855)	1	
<i>Sphaerocera curvipes</i> Latreille, 1805		1
Sphaeroceridae Su.1		1
<i>Telomerina flavipes</i> (Meigen, 1830)		1
<i>Thoracochaeta zosterae</i> (Haliday, 1833)	1	
Ephydriidae		
<i>Ditrichophora bohemani</i> (Becker, 1896)		1
<i>Hydrellia griseola</i> (Fallén, 1813)	1	
<i>Limnellingia quadrata</i> (Fallén, 1813)	1	
<i>Parydra pusilla</i> (Meigen, 1830)		1
<i>Philygria vittipennis</i> (Zetterstedt, 1838)	1	
<i>Scatella paludum</i> (Meigen, 1830)		1
<i>Scatella stagnalis</i> (Fallén, 1813)	1	
<i>Scatella tenuicosta</i> Collin, 1930	1	
Scathophagidae		
<i>Chaetosa punctipes</i> (Meigen, 1826)		1
<i>Scathophaga calida</i> Haliday, 1832		1
<i>Scathophaga furcata</i> (Say, 1823)	1	
<i>Scathophaga litorea</i> (Fallén, 1819)	1	
<i>Scathophaga stercoraria</i> (Linnaeus, 1758)	1	
Anthomyiidae		
Anthomyiidae Su.1		1
<i>Botanophila betarum</i> (Lintner, 1883)	1	
<i>Botanophila fugax</i> (Meigen, 1826)	1	
<i>Botanophila profuga</i> (Stein, 1816)	1	
<i>Botanophila rubrigena</i> (Schnabl, 1915)	1	
<i>Delia angustifrons</i> (Meigen, 1826)	1	
<i>Delia echinata</i> (Séguy, 1923)	1	
<i>Delia fabricii</i> (Holmgren, 1872)	1	
<i>Delia platura</i> (Meigen, 1826)	1	
<i>Delia radicum</i> (Linnaeus, 1758)	1	
<i>Delia setigera</i> (Stein, 1920)	1	
<i>Fucellia fucorum</i> (Fallén, 1819)	1	
<i>Fucellia maritima</i> (Haliday, 1838)		1
<i>Lasiomma picipes</i> (Meigen, 1826)	1	
<i>Pegomya bicolor</i> (Wiedemann, 1817)	1	
<i>Pegomya icterica</i> (Holmgren, 1872)		1
<i>Pegomya notabilis</i> (Zetterstedt, 1846)		1
<i>Pegoplata infirma</i> (Meigen, 1826)	1	
<i>Zaphne ambigua</i> (Fallén, 1823)	1	

<i>Zaphne brunneifrons</i> (Zetterstedt, 1838)		1
<i>Zaphne divisa</i> (Meigen, 1826)		1
<i>Zaphne frontata</i> (Zetterstedt, 1838)		1
Muscidae		
<i>Coenosia pumila</i> (Fallén, 1825)	1	
<i>Graphomya maculata</i> (Scopoli, 1763)		1
<i>Helina annosa</i> (Zetterstedt, 1838)	1	
<i>Hydrotaea armipes</i> (Fallén, 1825)	1	
<i>Hydrotaea dentipes</i> (Fabricius, 1805)	1	
<i>Limnophora pandellei</i> Séguy, 1923		1
<i>Limnophora sinuata</i> Collin, 1930		1
<i>Musca domestica</i> Linnaeus, 1758		1
<i>Mydaea palpalis</i> Stein, 1916		1
<i>Myospila mediatubunda</i> (Fabricius, 1781)	1	
<i>Spilogona baltica</i> (Ringdahl, 1918)	1	
<i>Spilogona contractifrons</i> (Zetterstedt, 1838)	1	
<i>Spilogona micans</i> (Ringdahl, 1918)		1
<i>Spilogona pacifica</i> (Meigen, 1826)	1	
<i>Thricops cunctans</i> (Meigen, 1826)		1
<i>Thricops longipes</i> (Zetterstedt, 1845)		1
<i>Thricops rostratus</i> (Meade, 1882)	1	
Fanniidae		
<i>Fannia canicularis</i> (Linnaeus, 1761)	1	
<i>Fannia lucidula</i> (Zetterstedt, 1860)	1	
<i>Fannia mollissima</i> (Haliday, 1840)	1	
<i>Fannia postica</i> (Stein, 1895)	1	
Calliphoridae		
<i>Calliphora uralensis</i> Villeneuve, 1922	1	
<i>Calliphora vicina</i> Robineau-Desvoidy, 1830	1	
<i>Cynomya mortuorum</i> (Linnaeus, 1761)	1	
<i>Protophormia terraenovae</i> (Robineau-Desvoidy, 1830)	1	
Hippoboscidae		
<i>Ornithomya avicularia</i> (Linnaeus, 1758)		1
<i>Ornithomya chloropus</i> Bergroth, 1901		1
SIPHONATERA		
Ceratophyllidae		
<i>Dasypsyllus gallinulae</i> (Dale, 1878)		1
ARACHNIDA		
ARANEAE		
Gnaphosidae		
<i>Gnaphosa lapponum</i> (L.Koch, 1866)	1	
Lycosidae		
<i>Pardosa palustris</i> (Linnaeus, 1758)	1	
<i>Pardosa sphagnicola</i> (Dahl, 1908)	1	
Araneidae		
<i>Larinioides patagiatus</i> (Clerck, 1757)		1
Linyphiidae		
<i>Allomengea scopigera</i> (Grube, 1859)	1	
<i>Bathypantes gracilis</i> (Blackwall, 1841)	1	
<i>Centromerita bicolor</i> (Blackwall, 1833)	1	

<i>Collinsia holmgreni</i> (Thorell, 1871)	1	
<i>Erigone arctica</i> (White, 1852)	1	
<i>Erigone atra</i> Blackwall, 1833		1
<i>Erigone tirolensis</i> L.Koch, 1872		1
<i>Halorates reprobis</i> (O.Pickard-Cambridge, 1879)	1	
<i>Improphantes complicatus</i> (Emerton, 1882)	1	
<i>Islandiana princeps</i> Braendegaard, 1932	1	
<i>Leptorhoptrum robustum</i> (Westring, 1851)	1	
<i>Leptothrix hardyi</i> (Blackwall, 1850)		1
<i>Agyneta nigripes</i> (Simon, 1884)	1	
<i>Porrhomma convexum</i> (Westring, 1851)	1	
<i>Porrhomma montanum</i> Jackson, 1913	1	
<i>Rugathodes bellicosus</i> (Simon, 1873)		1
<i>Savignya frontata</i> Blackwall, 1833	1	
<i>Scotinotylus evansi</i> (O.Pickard-Cambridge, 1894)	1	
<i>Tenuiphantes mengei</i> (Kulczynski, 1887)	1	
<i>Tenuiphantes zimmermanni</i> (Bertkau, 1890)	1	
<i>Walckenaeria clavicornis</i> (Emerton, 1882)	1	
<i>Walckenaeria nudipalpis</i> (Westring, 1851)	1	
OPILIONES		
Phalangidae		
<i>Mitopus morio</i> (Fabricius, 1779)	1	
ACARI		
Gammasina		
<i>Arctoseius cetratus</i> (Sellnick, 1940)	1	
<i>Dendrolaelaps oudemansi</i> Halbert, 1915		1
<i>Eugamasus kraepelini</i> (A.Berlese, 1905)	1	
<i>Eviphis ostrinus</i> (C.L. Koch, 1836)	1	
<i>Haemogamasus nidi</i> Michael, 1892		1
<i>Halolaelaps</i> sp.	1	
<i>Halolaelaps suecicus</i> Sellnick, 1957		1
<i>Macrocheles matrius</i> (Hull, 1925)		1
<i>Parasitus halophilus</i> (Sellnick, 1957)	1	
<i>Rhodacarus roseus</i> Oudemans, 1902		1
<i>Thinoseius spinosus</i> (Willmann, 1930)	1	
<i>Zercon triangularis</i> C.L. Koch, 1836	1	
Ixodida		
<i>Ixodes uriae</i> White, 1852		1
<i>Ixodes ricinus</i> Linnaeus, 1758		1
Actinedida		
<i>Anystis</i> sp.	1	
<i>Bakerdalia</i> sp.	1	
<i>Bdella</i> sp.	1	
<i>Cocceupodes clavifrons</i> (G.Canestrini, 1886)		1
<i>Ereynetes agilis</i> (Berlese, 1923)		1
<i>Nanorchestes arboriger</i> (Berlese, 1904)	1	
<i>Neomolgus littoralis</i> (Linnaeus, 1745)	1	
<i>Pedeculaster mesembrinae</i> (R.Canestrini, 1881)		1
<i>Penthalodes ovalis</i> (A.L.Dugès, 1834)	1	
<i>Petrobia apicalis</i> Banks, 1917	1	

<i>Rhagidia mordax</i> Oudemans, 1906	1		
<i>Rhagidia</i> sp.			1
<i>Tarsonemus fusarii</i> Cooreman, 1941	1		
Acaridida			
<i>Caloglyphus reglei</i>			1
<i>Histiostoma</i> (<i>hypopus</i>)	1		
<i>Histiostoma feroniarum</i>	1		
<i>Myianoetus digitiferus</i> (Trägårdh, 1904)			1
<i>Myianoetus vesparum</i> Scheucher, 1957			1
<i>Schwiebia cavernicola</i> Vitzthum, 1932	1		
<i>Tyrophagus dimidiatus</i> (Hermann, 1804)			1
<i>Tyrophagus similis</i> Volgin, 1949	1		
Oribatida			
<i>Achipteria coleoptrata</i> (Linnaeus, 1758)	1		
<i>Ameronothrus lineatus</i> (Thörell, 1871)	1		
<i>Ameronothrus nigrofemoratus</i> (C.L.Koch, 1879)	1		
<i>Autogneta longilamellata</i> (Michael, 1885)	1		
<i>Chamobates cuspidatus</i> (Michael, 1884)	1		
<i>Eniochthonius minutissimus</i> (Berlese, 1903)	1		
<i>Hermannia</i> sp.	1		
<i>Hypochthonius rufulus</i> C.L.Koch, 1836	1		
<i>Lauroppia falcata</i> (Paoli, 1908)			1
<i>Liochthonius lapponicus</i> (Trägårdh, 1910)	1		
<i>Liochthonius muscorum</i> Forsslund, 1964	1		
<i>Liochthonius propinquus</i> Niedbala, 1972	1		
<i>Medioppia subpectinata</i> (Oudemans, 1900)	1		
<i>Ophidiotrichus connexus</i> (Berlese, 1904)	1		
<i>Oppiella nova</i> (Oudemans, 1902)	1		
<i>Oppiella splendens</i> (C.L.Koch, 1841)	1		
<i>Maerlotritia cryptopa</i> (Banks, 1904)			1
<i>Quadroppia quadricarinata</i> (Michael, 1885)	1		
<i>Quadroppia</i> sp.	1		
<i>Suctobelbella acutidens</i> (Forsslund, 1941)	1		
<i>Suctobelbella sarekensis</i> (Forsslund, 1941)	1		
<i>Suctobelbella subcornigera</i> (Forsslund, 1941)	1		
<i>Tectocephus velatus</i> (Michael, 1880)	1		
<i>Zygoribatula exilis</i> (Nicolet, 1855)	1		
ANNELIDA			
OLIGOCHAETA			
Lumbricidae			
<i>Lumbricus castaneus</i> (Savigny, 1826)			1
Enchytraeidae			
Enchytraeidae indet. spp.	1		
MOLLUSCA			
GASTROPODA			
Agriolimacidae			
<i>Deroceras agreste</i> (Linnaeus, 1758)	1		
Vitrinidae			
<i>Vitrina pellucida</i> (O.F.Müller, 1774)	1		
Total:	239	34	196

Supplement S2. Number of specimens caught with pitfall traps in the gull colony plots. Eight traps were deployed, each active for 12 years and 52 collecting days, total of 624 trap days.

Plots:	R1	R3	R4	R6	R7	R8	R9	R10	Total
Collembola									
Collembola indet.	1.269	730	1.333	2.540	582	1.941	2.704	627	11.726
Hemiptera									
Saldidae									
<i>Salda littoralis</i>				5	6		64		75
Miridae									
<i>Teratocoris saundersi</i>	4	1	1	5	14		3		28
Cicadellidae									
<i>Macrosteles laevis</i>	3			2	5		1	1	12
Delphacidae									
<i>Javesella pellucida</i>	2	2	3	72			5		84
Aphididae									
Aphididae indet.	65	94	175	28	21	172	59	79	693
Pseudococcidae									
Pseudococcidae indet.					24		3	13	40
Thysanoptera									
Thripidae									
<i>Apterothrips secticornis</i>	1				4	8	2	1	16
<i>Aptinothrips rufus</i>	4	1		1	5	9	3	2	25
<i>Aptinothrips stylifer</i>					2	4	1		7
<i>Thrips vulgatissimus</i>	2		1			18		2	23
Thripidae indet. juv.	21	5	9	13	30	26	29	28	161
Lepidoptera									
Tortricidae									
<i>Eana osseana</i>					1		1		2
Noctuidae									
<i>Diarsia mendica</i>					1				1
Lepidoptera									
Indet. Larvae		1				1	1		3
Coleoptera									
Carabidae									
<i>Amara quenseli</i>	1		16	2		5	1	107	132
<i>Nebria rufescens</i>							6	1	7
<i>Notiophilus biguttatus</i>		1		5	7	2	1	3	19
<i>Patrobus septentrionis</i>	3			3					6
<i>Dicheirotichus cognatus</i>		1	3			3	3		10
Staphylinidae									
<i>Amischa analis</i>	1	6	5		1	2	18		33
<i>Atheta amicula</i>		1	1	5				3	10
<i>Atheta atramentaria</i>		1							1
<i>Atheta excellens</i>	2	1	2		1	6			12
<i>Atheta fungi</i>	222	219	160	193	68	153	131	10	1.156
<i>Atheta graminicola</i>	101	146	86	79	45	190	101	19	767
<i>Atheta islandica</i>	1		1	1	2	1	1		7
<i>Atheta nigra</i>		1							1

<i>Atheta vestita</i>						1			1
<i>Cypha longicornis</i>	1				1		2		4
<i>Lathrobium brunnipes</i>	7	14	9		1				31
<i>Lathrobium fulvipenne</i>	1								1
<i>Lesteva longoelytrata</i>							1		1
<i>Omalium excavatum</i>	5	11	14	3		1	1	10	45
<i>Omalium rivulare</i>	4	3	5				2	0	14
<i>Oxypoda hamorrhoea</i>	17	23	34	19	4	1	6	10	114
<i>Oxypoda islandica</i>						1			1
<i>Quedius boops</i>				1					1
<i>Quedius fulvicollis</i>	14	19	4	2	6	1			46
<i>Parocysa rubicunda</i>						1			1
Staphylinidae indet. larvae	15	9	11	5	3	8	11	1	63
Cryptophagidae									
<i>Atomaria analis</i>						1			1
Curculionidae									
<i>Ceutorhynchus insularis</i>						5			5
Hymenoptera									
Ichneumonidae									
<i>Aclastus gracilis</i>			1			2			3
<i>Atractodes ambiguus</i>			2			1	1		4
<i>Phygadeuon cylindraceus</i>		1							1
<i>Phygadeuon detestator</i>	17	1	18	5		1			42
<i>Phygadeuon tricops</i>			1			1			2
<i>Polytribax picticornis</i>				1					1
<i>Stilpnus tenebricosus</i>			1						1
Braconidae									
Aphidiinae indet.		4							4
<i>Chorebus</i> Su.1		1		8	3	3	7	1	23
<i>Monoctonus caricis</i>	13	10	12	13	14	1	3	1	67
<i>Phaeditoma</i> Su.1			1						1
Fitigidae									
<i>Alloxysta brachyptera</i>		1				1		1	3
<i>Alloxysta</i> sp.			2	11		5	3	1	22
Eucoilidae									
<i>Trybliographa</i> sp.	9	1	3	2	3	5	4	7	34
Pteromalidae									
<i>Asaphes vulgaris</i>		4		1					5
<i>Cyrtogaster vulgaris</i>			1	1					2
Pteromalidae Su.1								2	2
Pteromalidae Su.3	2			1		1			4
Pteromalidae Su.5					1				1
Eulopidae									
<i>Chrysocharis pallipes</i>	1	2							3
Eulophidae sp.A							1		1
Mymaridae									
<i>Polynema atratum</i>		1							1
Diaphriidae									
<i>Pantoclis trisulcata</i>		7	2	4	5		4		22

<i>Polypeza ciliata</i>							1	1
Scelionidae								
<i>Trimorus</i> sp.	3		12	18	21	1	5	60
Megaspilidae								
<i>Dendrocerus bifoveatus</i>	1							1
<i>Dendrocerus rectangularis</i>					1			1
Diptera								
Mycetophilidae								
<i>Brevicornu</i> sp.				1				1
<i>Exechia pectinivalva</i>			1					1
<i>Leia fascipennis</i>		1	4	3			2	10
Sciaridae								
Sciaridae indet.	1	4	1		2	1	1	10
Cecidomyiidae								
Cecidomyiidae Su.1		1	1	11	1	3	3	20
<i>Lestremia</i> sp.	1		1					2
Psychodidae								
Psychodidae indet.	2	1	2	1				6
Chironomidae								
<i>Halocladius variabilis</i>	3				5	1	6	15
Chironomidae indet.	1	1			1			3
Bibionidae								
<i>Dilophus femoratus</i>	4			2	3		2	11
Empididae								
<i>Rhamphomyia simplex</i>		1						1
Dolichopodidae								
<i>Dolichopus plumipes</i>	21	30	23	7	21	40	42	195
Lonchopteridae								
<i>Lonchoptera bifurcata</i>	9	6	5	1	6	3	7	37
Phoridae								
<i>Megaselia parnassia</i>	2	1						3
<i>Megaselia quadrisetosa</i>		1						1
<i>Megaselia parnassia/quadrisetosa</i>			1	1				2
<i>Megaselia sordida</i>	1				1			2
Piophilidae								
<i>Parapiophila vulgaris</i>	0						1	1
Carniidae								
<i>Meoneura lamellata</i>	9	2	6		3	1	2	23
Heleomyzidae								
<i>Heleomyza borealis</i>	1		1				1	2
<i>Neoleria prominens</i>			1		1			2
Sphaeroceridae								
<i>Copromyza nigrina</i>		2	3					5
<i>Leptocera fontinalis</i>	1							1
<i>Minilimosina fungicola</i>	13	7	25	1	1	2		49
<i>Minilimosina vitripennis</i>	2	2	1					5
<i>Pullimosina pullula</i>	1	1	1					3
<i>Spelobia luteilabris</i>	1		1					2
<i>Spelobia rufilabris</i>		1		1			2	4

Ephydridae									
<i>Hydrellia griseola</i>		1				1	1		3
<i>Philygria vittipennis</i>	1			1			3	5	10
Chloropidae									
<i>Oscinella vindicata</i>				1	16		4		21
Drosophilidae									
<i>Scaptomyza graminum</i>	6	3		1				1	11
<i>Scaptomyza pallida</i>	3	1		1	1		1	1	8
Scathophagidae									
<i>Chaetosa punctipes</i>			1			1			2
<i>Scathophaga furcata</i>	3	6	14			1	1		25
<i>Scathophaga litorea</i>		2	3	1		3	1		10
Anthomyiidae									
Anthomyiidae indet.					1			3	4
<i>Botanophila betarum</i>					1	2	1		4
<i>Botanophila fugax</i>	18	7	14	4	21	1	6	21	92
<i>Botanophila profuga</i>	1								1
<i>Botanophila rubrigena</i>	1	1			1	1			4
<i>Delia angustifrons</i>						1			1
<i>Delia echinata</i>		1		1	5	3	4	1	15
<i>Delia fabricii</i>		1	2		1	1		5	10
<i>Delia platyura</i>	2	2	1	2	3	2		6	18
<i>Delia radicum</i>	1			2	2	1	8	5	19
<i>Delia setigera</i>	10	10	21	4	14	5	8	28	100
<i>Fucellia fucorum</i>							1		1
<i>Lasiomma picipes</i>		2	1	2	3	2		12	22
<i>Pegoplata infirma</i>	1	2	2		1				6
Muscidae									
<i>Coenosia pumila</i>	2	3	1	1	11		1	7	26
<i>Helina annosa</i>						1			1
<i>Spilogona baltica</i>		1						1	2
<i>Spilogona contractifrons</i>							1	1	2
<i>Thricops rostratus</i>								1	1
Fanniidae									
<i>Fannia canicularis</i>								2	2
<i>Fannia lucidula</i>	5	12	23	1	4	14	4	1	64
<i>Fannia mollissima</i>		1							1
<i>Fannia postica</i>	3	4	2	2	7		2		20
Calliphoridae									
<i>Calliphora uralensis</i>		1							1
<i>Cynomya mortuorum</i>	7	4	12	2	3	1	4	1	34
Diptera indet.									
Cyclorrhapha larvae	34	12	12	16	1	7		18	100
Nematocera larvae		1	1						2
Araneae									
Lycosidae									
<i>Pardosa palustris</i>	5	2	2		6		5	1	21
<i>Pardosa sphagnicola</i>	3	5	2						10
Linyphiidae									

<i>Allomengea scopigera</i>	81	89	76	51	34	22	61	4	418
<i>Bathyphantes gracilis</i>			1		2				3
<i>Erigone arctica</i>	110	22	233	42	127	344	55	134	1.067
<i>Erigone atra</i>							1		1
<i>Improphanes complicatus</i>				1			1		2
<i>Leptorhoptrum robustum</i>	2	1	4						7
<i>Savignya frontata</i>	32	38	66	20	37		34	3	230
<i>Tenuiphantes menzei</i>	2	1	3			11			17
<i>Tenuiphantes zimmemanni</i>								2	2
<i>Walckenaeria clavicornis</i>	2			3	2	1	1	2	11
<i>Walckenaeria nudipalpis</i>	7	3	2	4	2	1	2	1	22
Linyphiidae indet. ad.					1				1
Linyphiidae indet. juv.	56	46	51	78	120	78	89	64	582
Opiliones									
<i>Mitopus morio</i>					1			1	2
Acari									
Acari indet.	1.906	4.209	2.482	1.994	2.034	1.257	1.997	607	16.486
Gastropoda									
Vitrinidae									
<i>Vitrina pellucida</i>		1	4	2	1				8
Annelida									
Enchytraeidae									
Enchytraeidae indet.	4	4		3		3		2	16
Nematoda	11	20	23	1			2	14	71

Supplement S3. Pitfall traps in sandy plots outside gull colony. Twelve traps were deployed, each active for 12 years and 52 collecting days, total of 624 trap days.

Plots:	R11	R12	R13	R14	R15	R16	R17	R18	R19	R20	R21	R28	Total
Collembola													
Collembola indet.	110	185	31	124	75	103	84	90	80	51	43	170	1,146
Hemiptera													
Miridae													
<i>Teratocoris saundersi</i>								1					1
Delphacidae													
<i>Javesella pellucida</i>										1			1
Aphididae													
Aphididae indet.	65	15	2	10	28	1	29	22	29	3	6	12	222
Thysanoptera													
Thripidae													
<i>Apterothrips septicornis</i>			1										1
<i>Thrips vulgatissimus</i>	245	576	29	80	533		677	4	24	171	10	261	2,610
Thripidae indet. juv.	1	30	11	15	156	1	61	2	3	7		117	404
Lepidoptera													
Coleophoridae													
<i>Coleophora algidella</i>								1					1
Noctuidae													
<i>Hypocoena stigmatica</i>		1				2							3
<i>Diarsia mendica</i>										2			2
<i>Euxoa ochrogaster</i>					1								1
Lepidoptera													
Indet. larvae			6	1		7	1						6
Coleoptera													
Carabidae													
<i>Amara quenseli</i>	190	235	43	51	139	67	128	91	113	150	87	207	1,501
<i>Nebria rufescens</i>	1							4	6			2	13
<i>Notiophilus biguttatus</i>				1									1
Staphylinidae													
<i>Atheta atramentaria</i>			1										1
<i>Atheta excellens</i>		1											1
<i>Atheta melanocera</i>									1				1
<i>Omalius excavatum</i>						1						3	4
<i>Oxyptoda islandica</i>												1	1
<i>Tachyporus nitidulus</i>						1							1
Hymenoptera													
Ichneumonidae													
<i>Pimpla sodalis</i>								1					1
Braconidae													
<i>Aphidius</i> sp.							1					1	2
<i>Monoctonus caricis</i>					3								3
Cynipidae													
<i>Alloxysta</i> sp.												1	1
Eucoilidae													
<i>Trybliographa</i> sp.		1											1

Pteromalidae														
Pteromalidae Su.1						1						1		2
Megaspilidae														
<i>Dendrocerus bifoveatus</i>					1									1
Diptera														
Sciaridae														
Sciaridae indet.	3	3	7	8	15	7	3	4			2	8		60
Cecidomyiidae														
Cecidomyiidae Su.1							1				1			2
Chironomidae														
<i>Halocladus variabilis</i>	56	340	43	72	340	57	117	19	41	64	35	178		1.362
<i>Telmatogeton japonicus</i>			2	1										3
Chironomidae indet.			1	1	1		2			1	1			7
Bibionidae														
<i>Dilophus femoratus</i>									1					1
Dolichopodidae														
<i>Dolichopus plumipes</i>						1	2					1		4
Syrphidae														
<i>Platycheirus manicatus</i>		1			1									2
Phoridae														
<i>Megaselia giraudii</i>							1							1
<i>Megaselia sordida</i>	1													1
Piophilidae														
<i>Parapiophila vulgaris</i>												1		1
Carniidae														
<i>Meoneura lamellata</i>			1								1	5		7
Coelopidae														
<i>Coelopa frigida</i>	1								1					2
Heleomyzidae														
<i>Heleomyza borealis</i>	3	1	3	2	4	4	3	3	14	3	6	5		51
<i>Neoleria prominens</i>	1		3	1			1			1	3			10
Sphaeroceridae														
<i>Copromyza nigrina</i>	1	1			1						1	1		5
<i>Spelobia rufilabris</i>										1				1
Ephydridae														
<i>Hydrellia griseola</i>		4												4
<i>Philygria vittipennis</i>			1				1							2
Drosophilidae														
<i>Scaptomyza graminum</i>		1							2			1		4
Scathophagidae														
<i>Scathophaga furcata</i>					1							1		2
<i>Scathophaga litorea</i>				2	1							3		6
Anthomyiidae														
Anthomyiidae indet.							1							1
<i>Botanophila betarum</i>						4								4
<i>Botanophila fugax</i>	31	53	40	35	46	20	49	20	50	29	21	45		439
<i>Botanophila rubrigena</i>		1												1
<i>Delia angustifrons</i>	4	8	1	2	4		21		1	3	7	2		53
<i>Delia echinata</i>		1	1			1	3	2	3	2	3	5		21

<i>Delia fabricii</i>	8	30	3	7	1	14	17	26	28	5	4	13	156
<i>Delia platura</i>	7	15	7	3	7	5	27	11	19	5	7	16	129
<i>Delia radicum</i>		4		1			2		1			1	9
<i>Delia setigera</i>	9	16	57	61	52	106	17	3	7	14	14	64	420
<i>Fucellia fucorum</i>				1		1							2
<i>Lasiomma picipes</i>		2	1	2		3	5	8	5	4	3	9	42
<i>Pegoplata infirma</i>							2		1				3
Muscidae													
<i>Coenosia pumila</i>	2	3				5				4	3	2	19
<i>Helina annosa</i>							1					1	2
<i>Spilogona baltica</i>						1	3			1		5	10
<i>Spilogona pacifica</i>												1	1
<i>Thricops cunctans</i>									1				1
Fanniidae													
<i>Fannia canicularis</i>												14	14
Calliphoridae													
<i>Calliphora uralensis</i>							1						1
<i>Cynomya mortuorum</i>		5			3	1	4	2	1	2			18
Diptera indet.													
Cyclorrhapha larvae						1							1
Araneae													
Lycosidae													
<i>Pardosa palustris</i>		1		1									2
Linyphiidae													
<i>Erigone arctica</i>	46	173	15	21	39	47	33	15	32	111	34	70	636
<i>Erigone atra</i>											1		1
<i>Halorates reprobis</i>					1								1
<i>Islandiana princeps</i>	1	10		2	5		1	5	5			3	32
<i>Meioneta nigripes</i>	50	12	75	69	46	21	22	54	51	34	34	25	493
<i>Savignya frontata</i>								1					1
<i>Tenuiphantes zimmermanni</i>						1							1
Linyphiidae indet. juv.	11	8	8	5	9	19	1	9	17	6	17	5	115
Opiliones													
<i>Mitopus morio</i>												1	1
Acari													
Acari indet.	721	759	567	980	1.135	870	484	437	512	652	377	2.851	10.345
Annelida													
Enchytraeidae													
Enchytraeidae indet.		4							1			1	6
Nematoda		2		1			1						4

Supplement S4. Pitfall traps in spit plots. A total of three traps were active for a total of 164 trap days. R29 and R30 operated for 17 years (68 trap days each; 136 total) and trap R37 was active for 7 years (28 trap days).

Plots:	R29	R30	R37	Total
Collembola				
Collembola indet.	345	152	182	679
Hemiptera				
Aphididae				
Aphididae indet.	216	62	3	281
Thysanoptera				
Thripidae				
<i>Thrips vulgatissimus</i>	26	131		157
Thripidae indet. juv.	10	8		18
Lepidoptera				
Gelechiidae				
<i>Scropipalpa samadensis</i>		1		1
Noctuidae				
<i>Hypocoena stigmatica</i>			1	1
Coleoptera				
Carabidae				
<i>Amara quenseli</i>	35	7	3	45
<i>Nebria rufescens</i>	1			1
Staphylinidae				
<i>Micralymma marinum</i>	1			1
Hymenoptera				
Ichneumonidae				
Ichneumonidae Su.6			1	1
Megaspilidae				
<i>Dendrocerus bifoveatus</i>	1	1		2
Diptera				
Sciaridae				
Sciaridae indet.	35	9	2	46
Chironomidae				
<i>Halocladius variabilis</i>	27	9		36
<i>Telmatogeton japonicus</i>		1		1
Chironomidae indet.		1	2	3
Ceratopogonidae				
Ceratopogonidae indet.		1		1
Syrphidae				
<i>Platycheirus manicatus</i>			1	1
Piophilidae				
<i>Parapiophila vulgaris</i>	1	1		2
Carniidae				
<i>Meoneura lamellata</i>	1	1		2
Heleomyzidae				
<i>Heleomyza borealis</i>	1			1
<i>Neoleria prominens</i>		2		2
Sphaeroceridae				
<i>Minilimosina fungicola</i>	1	2		3

Drosophilidae				
<i>Scaptomyza pallida</i>	1			1
Scathophagidae				
<i>Scathophaga litorea</i>		1		1
Anthomyiidae				
<i>Botanophila fugax</i>	70	109	7	186
<i>Delia angustifrons</i>	11	6		17
<i>Delia fabricii</i>	1			1
<i>Delia platura</i>	7	13	2	22
<i>Delia setigera</i>	14	13	2	29
<i>Fucellia fucorum</i>		2		2
<i>Lasiomma picipes</i>	1			1
Muscidae				
<i>Coenosia pumila</i>	3	3	1	7
Fanniidae				
<i>Fannia lucidula</i>		1		1
Diptera indet.				
Cyclorrhapha larvae	4	2	1	7
Araneae				
Linyphiidae				
<i>Erigone arctica</i>	70	102	33	205
<i>Meioneta nigripes</i>	2		1	3
<i>Savignya frontata</i>		1		1
Linyphiidae indet. juv.	9	7	4	20
Acari				
<i>Neomolgus littoralis</i>	332	165	9	506
Acari indet.	1.157	428	78	1.663
Annelida				
Enchytraeidae				
Enchytraeidae indet.	1	3		4
Nematoda	7			7

Supplement S5. Annual and total number of specimens from the Malaise trap in the gull colony (2008–2021).

Year:	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Total
ACARI															
Unnamed		104	140	4	6	1	2						18		275
ARANEAE															
Linyphiidae															
<i>Allomengea scopigera</i>										2	1				3
<i>Bathypantes gracilis</i>												1			1
<i>Erigone arctica</i>	2		6				2								10
<i>Tenuiphantes mengei</i>										1		1			2
Unnamed juveniles	1		9	1	1		2	1		5					20
Lycosidae															
<i>Pardosa palustris</i>			4												4
COLEOPTERA															
Curculionidae															
<i>Ceutorhynchus insularis</i>								1							1
Staphylinidae															
<i>Amischa analis</i>							1								1
<i>Atheta atramentaria</i>				1					6		1			1	9
<i>Atheta fungi</i>					1										1
<i>Atheta excellens</i>							4					1		1	6
<i>Atheta graminicola</i>				1	1										2
<i>Atheta islandica</i>					1										1
<i>Omalius excavatum</i>					3			1			1				5
DIPTERA															
Agromyzidae															
<i>Phytomyza fallaciosa</i>				2											2
<i>Phytomyza farfarella</i>													1		1
<i>Phytomyza nigra</i>		1					6								7
Anthomyiidae															
Anthomyiidae Su.1				1											1
<i>Botanophila betarum</i>	1		5	1	9			1	3		2				22
<i>Botanophila fugax</i>	61	96	81	76	157	82	490	90	96	34	34	106	54	47	1.504
<i>Botanophila profuga</i>								1			13		2		16
<i>Botanophila rubrigena</i>				1			3		3			2			9
<i>Botanophila</i> sp.						1									1
<i>Delia echinata</i>		2			1		2	1							6
<i>Delia fabricii</i>	38	54	15	3	19	21	86	7	12	5	9	2		1	272
<i>Delia platyura</i>	1	14	6		26		2				4				53
<i>Delia radicum</i>										1	1				2
<i>Delia setigera</i>		4	2		6		1			1					14
<i>Fucellia fucorum</i>							1			1					2
<i>Lasiomma picipes</i>	119	88	171	9	34	1	112	3	56	14	6	5	6		624
<i>Pegomya bicolor</i>				1		1	1								3

<i>Pegomya notabilis</i>	1															1
<i>Pegoplatea infirma</i>	2	1	6	12	10		13	1	5		2	2	2	6		62
<i>Zaphne ambigua</i>		2	1	1								1				5
Anthomyzidae																
<i>Anthomyza socculata</i>	1	3	4	9	14	21	4			2		1		4		63
Bibionidae																
<i>Dilophus femoratus</i>	48			3		78	4	1.737	6	0	113		5	20		2.014
Calliphoridae																
<i>Calliphora uralensis</i>							1					1		1		3
<i>Calliphora vicina</i>									1							1
<i>Cynomya mortuorum</i>	1	18	6	1		1	8	1	7	2		2	1			48
Carnidae																
<i>Meoneura lamellata</i>	1	2	5	2	1	1	2					1				15
Cecidomyiidae																
Cecidomyiidae Su.1	32	5	7	10	52	1	28	1	47	7		2	21			213
Cecidomyiidae Su.2	1	4	14	5	188	30	42	6	10	8	4	5	3	2		322
<i>Lestremia</i> sp.							36									36
Chironomidae																
<i>Diamesa bohemani</i>		1							2							3
<i>Diamesa</i> sp.									5							5
<i>Halocladus variabilis</i>	96	2.495	1.266	3	465	155	198	21	985	10	29	79	15	15		5.832
<i>Macropelopia nebulosa</i>		1														1
<i>Micropsectra</i> sp.		1														1
Orthoclaadiinae		9	3				13	2		5	1	5	6	44		88
<i>Telmatogeton japonicus</i>														4		4
Chloropidae																
<i>Oscinella vindicata</i>										1	2		1			4
<i>Thaumatomyia glabra</i>											1					1
Coelopidae																
<i>Coelopa frigida</i>		2					2				1	1				6
Dolichopodidae																
<i>Dolichopus plumipes</i>	114	53	123	403	85	10	22	55	7	45	11	160	2	33		1.123
<i>Syntormon pallipes</i>		1								1						2
Drosophilidae																
<i>Drosophila funebris</i>									1							1
<i>Scaptomyza graminum</i>	36	26	42	3	41	6	185	7	268	5	4	6	28	3		660
<i>Scaptomyza pallida</i>	2	31	15	13	27	6	210	13	53	8	7	5	7	1		398
Empididae																
<i>Rhamphomyia simplex</i>	4	3	4	15	5	102	2	2.241	110	3	82	30	36	168		2.805
Ephydriidae																
<i>Hydrellia griseola</i>	72	383	108	25	2	33	555	172	136	88	76	29	16	14		1.709
<i>Limnolia quadrata</i>										3		11				14

<i>Philygria vittipennis</i>							2				4				6
<i>Scatella tenuicosta</i>		1							2						3
Fanniidae															
<i>Fannia canicularis</i>	1	2	3			2	3	1	1	1					14
<i>Fannia lucidula</i>	33	9	12	8	45	21	75	12	42	33	4	3	1	26	324
<i>Fannia mollissima</i>				4				17	5	13	149	23	11		222
<i>Fannia postica</i>	1	2	6	25	25	4	2	20	9	4	4		9	11	122
Heleomyzidae															
<i>Heleomyza borealis</i>	29	33	90	9	35	41	142	42	28		1	23			473
<i>Neoleria prominens</i>	9	44	14	4	40	2	26	18	27	49	49	34	9	6	331
Keroplatidae															
<i>Macrocera nigropicea</i>	3	1	51	14	63	26	24	3	8	5	4	2	5	6	215
Lonchopteridae															
<i>Lonchoptera bifurcata</i>	3	1			6	1	9		3	2	1	1	2	3	32
Muscidae															
<i>Coenosia pumila</i>	43	22	86	214	346	49	342	101	0	31	113	40	5	20	1,412
<i>Helina annosa</i>	1	2	1		1				2						7
<i>Hydrotaea armipes</i>		1										1			2
<i>Hydrotaea dentipes</i>		1		1	2	2	17	12	16	1	0	2			54
<i>Spilogona baltica</i>		2	1	2		2	3	6	1					10	27
<i>Spilogona contractifrons</i>	7	2	4	14	13	15	22	10	18	15	69	8	13	50	260
<i>Spilogona micans</i>		1													1
<i>Spilogona pacifica</i>	22	36	4	28	12	52	32	45	18	11	30	6	8	53	357
<i>Thricops cunctans</i>								2							2
<i>Thricops longipes</i>							1					1			2
<i>Thricops rostratus</i>	4	14	8	8	12		10	6	24	45	15	29	6	7	188
Mycetophilidae															
<i>Brevicornu griseicolle</i>	1	1	1				2		1	1					7
<i>Brevicornu verralli</i>		1		1											2
<i>Brevicornu</i> sp.	1	2	2				11		1	1	1				19
<i>Exechia micans</i>		1													1
<i>Exechia pseudofestiva</i>												1			1
<i>Leia fascipennis</i>	1	3	42	12	51	78	358	10	210	381	850	35	224	312	2,567
Mycetophilidae unnamed	1														1
Phoridae															
<i>Megaselia coccyx/sordida</i>						3	2	53	15	2		1			76
<i>Megaselia parnassia</i>	5	18	92	26	87	7	33	13		2	1	29	1		314
<i>Megaselia parnassia/quadrisseta</i>	4	2	23	13	68	6	26	8	8	7	2	15	1	1	184
<i>Megaselia pleuralis</i>	1	2	2	1	2		18	1	2	3		2	2	3	39
<i>Megaselia quadrisseta</i>	6	6	3	7	130	1		2	5	8	10	15		1	194
Piophilidae															
<i>Parapiophila vulgaris</i>	30	49	33	9	300	50	259	24	115	35	32	31	7	5	979

Psychodidae															
Unnamed			4			1	373	43	239	5	2	0	15	34	716
Scathophagidae															
<i>Chaetosa punctipes</i>		2										1			3
<i>Scathophaga furcata</i>		2	9				4		9	3		2			29
<i>Scathophaga litorea</i>	2	7	3	1	7	3	87	44	59	23	16	51	3	4	310
<i>Scathophaga stercoraria</i>			1				3								4
Scatopsidae															
<i>Scatopse notata</i>						1	8	12	2	4	0	1		2	30
Sciaridae															
Unnamed	6	6	13	2	9		58	4	4	9	3	2	1	2	119
Sepsidae															
<i>Themira arctica</i>		7	3				11	3	4					2	30
<i>Themira pusilla</i>		2					13		1				1	3	20
Sphaeroceridae															
<i>Copromyza equina</i>		1													1
<i>Copromyza nigrina</i>		85					2		16			6			109
<i>Ischiolepta pusilla</i>									3						3
<i>Minilimosina fungicola</i>	9		12	9	25	36	191	3	7	31	11	30	2	1	367
<i>Minilimosina vitripennis</i>			1	1	4		2		1			2			11
<i>Spelobia clunipes</i>							3			1	2	4			10
<i>Spelobia luteilabris</i>	3		3	1	2	2	5			4		7			27
<i>Spelobia pseudosetaria</i>								1							1
<i>Sphaerocera curvipes</i>									1						1
Syrphidae															
<i>Eupeodes borealis</i>	49	7				1			5	6		3	2	15	88
<i>Eupeodes lundbecki</i>	1				1									1	3
<i>Eupeodes punctifer</i>	2														2
<i>Melanostoma mellinum</i>	2	1	2	1			3	10	13	2	4	9		3	50
<i>Platycheirus albimanus</i>								1		1				2	4
<i>Platycheirus manicatus</i>	21	6	14	9	21	19	80	22	137	42	36	14	3	19	443
<i>Platycheirus islandicus</i>											4				4
<i>Sphaerophoria scripta</i>	1				4										5
Trichoceridae															
<i>Trichocera hiemalis</i>														1	1
<i>Trichocera maculipennis</i>														1	1
HEMIPTERA															
Aphididae															
Unnamed	54				790	11	6	36		17		713	22	12	1.661
Cicadellidae															
<i>Macrosteles laevis</i>			3	3	43		6								55
Miridae															

<i>Teratocoris saundersi</i>	1	2	3		2		1									9
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HYMENOPTERA

Braconidae

<i>Aleiodes circumscriptus</i>		1											2			3
<i>Alysia manducator</i>												1				1
Alysiinae indet.				1			1									2
Alysiinae Su.1													2			2
Alysiinae Su.3												1	3			4
<i>Aphidius</i> sp.					3			1					1			5
<i>Aspilota</i> sp.					5	3	5		1	1	1					16
<i>Chorebus</i> Su.1	1	10	1	13	27	3	7	5	9	3	2	14				95
<i>Dacnusa</i> sp.					3	1						1				5
<i>Ephedrus</i> sp.															2	2
<i>Meteorus rubens</i>		2										2				4
<i>Monoctonus caricis</i>	16	8	5	27	119	3	51	13	5	6	6	48	2	8		317
<i>Orthostigma</i> Su.1												5				5

Diapriidae

<i>Pantoclis trisulcata</i>	3	1	29	3	3	1	13					1	81	3		138
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Eulophidae

<i>Chrysocharis pallipes</i>		26	5	11	138		2	12		46		81		2		323
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Figitidae

<i>Alloxysta</i> sp.	4	4	1	1	7	3	3		8	4	1	5	2	1		44
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Eucoilidae

<i>Trybliographa</i> sp.				1	16	1	2	15	31	3		4	1			74
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Ichneumonidae

<i>Aclastus gracilis</i>	4	6	6	1	24	3	6		9	1		8	1			69
<i>Acrolyta nens</i>								2	4			2	1			9
<i>Atractodes ambiguus</i>		4		2	11		12	13	15	7	2	1		1		68
<i>Atractodes bicolor</i>							3	1	18	24	5	10	8	7		76
<i>Coelichneumon impressor</i>						1	1	1		1	0	1				5
<i>Ctenopelmatinae</i> Su.2														4		4
<i>Diadegma boreale</i>										1						1
<i>Diplazon laetatorius</i>					1	1		1		1	1					5
Diplazontinae Su.1		2														2
<i>Enizemum ornatum</i>					1											1
<i>Hyperbatus segmentator</i>									1							1
<i>Ichneumon extensorius</i>	1				1											2
Ichneumonidae Su.1							2									2
Ichneumonidae Su.2							1									1
Ichneumonidae Su.3						1										1
Ichneumonidae Su.4		1														1
Ichneumonidae Su.5		1														1

<i>Diarsia mendica</i>	10	1	10	3	1	5								2	32
<i>Euxoa ochrogaster</i>		2			1				1						4
<i>Hypocoena stigmatica</i>		1													1
Plutellidae															
<i>Plutella xylostella</i>		2							4						6
Tortricidae															
<i>Eana osseana</i>	1	13	3		7			4	1		2				31
TRICHOPTERA															
Limnephilidae															
<i>Limnephilus sparsus</i>		4													4
THYSANOPTERA															
Thripidae															
<i>Thrips vulgatissimus</i>		1	1								2				4
Total:	1.100	3.922	2.681	1.105	3.761	1.055	4.457	5.083	3.018	1.208	1.853	1.896	601	1.016	32.756