

Supplementary Material

Supplementary Table 1. List of species of Coleoptera and number of specimens collected from GSML and CVDA (Campanaro and Parisi 2021).

IUCN = Red List Categories (Carpaneto et al., 2015). CR = Critically endangered, EN = Endangered, VU = Vulnerable, NT = Near Threatened, LC = Least Concern, DD = Data Deficient.

CT = Trophic Categories. XY = xylophagous (also on healthy trees), SX = saproxylophagous (on dead wood and woody rotting material, including woodmould), PR = predator (as larvae and/or adults) of Sx/xy or of other saproxylic insects, MY = mycophagous (on hyphae of saproxylic fungi or yeasts, and myxomycetes, mostly under bark), MB = mycetobiontic on carpophora of large Polyporales and other fungi living on old trees and stumps, NI (CO) = inhabiting birds' and small mammals' nests in hollow trees, CO = commensal of Sx/xy or of other saproxylic insects, SF = sap-feeder on trees attacked by xy, SP = saprophytophagous (on dead vegetal rotting material associated with dead wood debris) (Carpaneto et al., 2015).

Families	Species	IUCN	CT	GSML	CVDA
Anthribidae	<i>Platyrhinus resinosus</i> (Scopoli, 1763)	LC	XY	1	
Anthribidae	<i>Platystomos albinus</i> (Linnaeus, 1758)	LC	XY	1	2
Attelabidae	<i>Neocoenorrhinus interpunctatus</i> (Stephens, 1831)				1
Biphyllidae	<i>Diplocoelus fagi</i> (Chevrolat, 1837)	LC	SX		2
Brentidae	<i>Holotrichapion pisi</i> (Fabricius, 1801)				2
Buprestidae	<i>Agrius angustulus</i> (Illiger, 1803)	LC	XY		1
Buprestidae	<i>Agrius graminis</i> Gory & Laporte de Castelnau, 1837	LC	XY	1	
Buprestidae	<i>Agrius olivicolor</i> Kiesenwetter, 1857	LC	XY		2
Byturidae	<i>Byturus tomentosus</i> (De Geer, 1774)			1	1
Cantharidae	<i>Cantharis decipiens</i> Baudi, 1871				7
Cantharidae	<i>Malthinus deceptor</i> Baudi, 1983			1	1
Cantharidae	<i>Rhagonycha lignosa</i> (Müller, 1764)			1	
Cantharidae	<i>Rhagonycha lutea</i> (Müller, 1764)				1
Cantharidae	<i>Rhagonycha nigriceps</i> (Waltl, 1838)			1	

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Cantharidae	<i>Rhagonycha nigrosuta</i> Fiori, 1900					2
Cerambycidae	<i>Acanthocinus xanthoneurus</i> (Mulsant & Rey, 1852)	NT	XY			1
Cerambycidae	<i>Alosterna tabacicolor</i> (De Geer, 1775)	LC	XY	3		
Cerambycidae	<i>Leiopus nebulosus</i> (Linnaeus, 1758)	LC	XY			1
Cerambycidae	<i>Oxymirus cursor</i> (Linnaeus, 1758)	LC	XY	1		
Cerambycidae	<i>Paracorymbia fulva</i> (De Geer, 1775)	LC	XY	1		
Cerambycidae	<i>Phymatodes testaceus</i> (Linnaeus, 1758)	LC	XY			1
Cerambycidae	<i>Pseudovadonia livida</i> (Fabricius, 1777)	LC	XY	1		22
Cerambycidae	<i>Pyrrhidium sanguineum</i> (Linnaeus, 1758)	LC	XY	1		
Cerambycidae	<i>Rhagium mordax</i> (De Geer, 1775)	LC	XY			1
Cerambycidae	<i>Rutpela maculata</i> (Poda, 1761)	LC	XY	4		
Cerambycidae	<i>Saphanus piceus</i> (Laicharting, 1784)	NT	XY	3		
Cerambycidae	<i>Stenurella melanura</i> (Linnaeus, 1758)	LC	XY	244		8
Cerambycidae	<i>Stenurella sennii</i> Sama, 2002	DD	XY	98		2
Cerambycidae	<i>Stictoleptura rubra</i> (Linnaeus, 1758)	LC	XY	1		
Cerambycidae	<i>Tetrops praeustus</i> (Linnaeus, 1758)	LC	XY			1
Cerambycidae	<i>Xylotrechus arvicola</i> (Olivier, 1795)	LC	XY			3
Chrysomelidae	<i>Aphthona euphorbiae</i> (Schrank, 1781)					1
Chrysomelidae	<i>Aphthona venustula</i> (Kutschera, 1861)					10
Chrysomelidae	<i>Galerucella lineola</i> (Fabricius, 1781)					7
Cerylonidae	<i>Cerylon ferrugineum</i> Stephens, 1830	LC	MY	5		1
Ciidae	<i>Cis boleti</i> (Scopoli, 1763)	LC	MB	3		
Ciidae	<i>Rhopalodontus perforatus</i> (Gyllenhal, 1813)	LC	MB			1
Cleridae	<i>Opilo mollis</i> (Linnaeus 1758)	LC	PR	1		2
Cleridae	<i>Tillus elongatus</i> (Linnaeus 1758)	NT	PR	6		9
Cleridae	<i>Thanasimus formicarius</i> (Linnaeus, 1758)	LC	PR			1
Coccinellidae	<i>Subcoccinella vigintiquatuorpunctata</i> (Linnaeus, 1758)					1
Corylophidae	<i>Arthrolips nana</i> (Mulsant & Rey, 1861)	DD	MY	1		1
Cryptophagidae	<i>Cryptophagus</i> sp. A					2
Cryptophagidae	<i>Cryptophagus</i> sp. B					1
Curculionidae	<i>Acalles parvulus</i> Boheman, 1837	LC	SX			1
Curculionidae	<i>Anisandrus dispar</i> (Fabricius, 1793)	LC	MY	1		
Curculionidae	<i>Ceuntorhynchus picitarsis</i> Gyllenhal, 1837					1
Curculionidae	<i>Dichotrachelus bensai</i> Solari & Solari, 1903					1
Curculionidae	<i>Ernoporicus fagi</i> (Fabricius, 1798)	LC	XY			3
Curculionidae	<i>Gymnetron veronicae</i> (Germar, 1821)					1

Curculionidae	<i>Hylastinus obscurus</i> (Marsham, 1802)	LC	XY	2	
Curculionidae	<i>Hylesinus toranio</i> (Danthoine, 1788)	LC	XY		6
Curculionidae	<i>Lymantor coryli</i> (Perris, 1853)	VU	XY		1
Curculionidae	<i>Orchestes fagi</i> (Linnaeus, 1758)			4	15
Curculionidae	<i>Phyllobius argentatus</i> (Linnaeus, 1758)			11	64
Curculionidae	<i>Phyllobius longipilis</i> Boheman, 1843			20	
Curculionidae	<i>Phyllobius romanus</i> Faust, 1890			11	41
Curculionidae	<i>Polydrusus aeratus</i> (Gravenhorst, 1807)			2	
Curculionidae	<i>Polydrusus cervinus</i> (Linnaeus, 1758)			2	
Curculionidae	<i>Polydrusus impar</i> Gozis, 1882				1
Curculionidae	<i>Polydrusus neapolitanus</i> Desbrochers des Loges, 1871				1
Curculionidae	<i>Polydrusus pterygomalis</i> Boheman, 1840			2	
Curculionidae	<i>Polydrusus sericeus</i> Goeze, 1777				2
Curculionidae	<i>Polydrusus transalpinus</i> Daniel & Daniel, 1906			12	
Curculionidae	<i>Polydrusus raverae</i> Solari & Solari, 1904				1
Curculionidae	<i>Rhynchaenus fagi</i> (Linnaeus, 1758)			10	2
Curculionidae	<i>Rhyncolus elongatus</i> (Gyllenhal, 1827)	LC	SX		1
Curculionidae	<i>Scolytus intricatus</i> (Ratzeburg, 1837)	LC	XY	2	8
Curculionidae	<i>Scolytus multistriatus</i> (Marsham, 1802)	LC	XY		3
Curculionidae	<i>Taphrorychus bicolor</i> (Herbst, 1793)	LC	XY	1	1
Curculionidae	<i>Taphrorychus villifrons</i> (Dufour, 1843)	LC	XY	1	
Curculionidae	<i>Trypodendron domesticum</i> (Linnaeus, 1758)	LC	MY	1	2
Curculionidae	<i>Tychius meliloti</i> Stephens, 1831				1
Curculionidae	<i>Xyleborinus saxesenii</i> (Ratzeburg, 1837)	LC	MY	4	
Curculionidae	<i>Xylosandrus germanus</i> (Blandford, 1894)			5	
Dascillidae	<i>Dascillus cervinus</i> (Linnaeus, 1758)			2	3
Dermestidae	<i>Anthrenus fuscus</i> Olivier, 1789			1	
Dermestidae	<i>Globicornis emarginata</i> (Gyllenhal, 1808)	LC	NI	1	
Dermestidae	<i>Globicornis luckowi</i> Herrmann, Háva & Kadej, 2011	NT	NI	3	1
Elateridae	<i>Agriotes infuscatus</i> Desbrochers des Loges, 1870			21	24
Elateridae	<i>Agrypnus murinus</i> (Linnaeus, 1758)				1
Elateridae	<i>Ampedus quercicola</i> (Buysson, 1887)	LC	PR		1
Elateridae	<i>Athous haemorrhoidalis</i> (Fabricius, 1801)			27	29
Elateridae	<i>Athous puncticollis</i> Kiesenwetter, 1858			1	6
Elateridae	<i>Athous subfuscus</i> (Müller, 1764)			22	13
Elateridae	<i>Athous vittatus</i> (Fabricius, 1793)			7	8
Elateridae	<i>Cardiophorus vestigialis</i> Erichson, 1840				1

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Elateridae	<i>Dalopius marginatus</i> (Linnaeus, 1758)				134
Elateridae	<i>Denticollis linearis</i> (Linnaeus, 1758)	CR	PR	1	1
Elateridae	<i>Dicronychus cinereus</i> (Herbst, 1784)				9
Elateridae	<i>Drilus flavescens</i> Olivier, 1790				1
Elateridae	<i>Hemicrepidius hirtus</i> (Herbst, 1784)			1	2
Elateridae	<i>Hypoganus inunctus</i> (Panzer, 1795)	EN	PR		1
Elateridae	<i>Idolus picipennis</i> (Bach, 1852)				2
Elateridae	<i>Limonius minutus</i> (Linnaeus, 1758)				7
Elateridae	<i>Melanotus villosus</i> (Geoffroy in Fourcroy, 1785)	LC	PR	11	15
Elateridae	<i>Nothodes parvulus</i> (Panzer, 1799)			397	79
Elateridae	<i>Pheletes quercus</i> (Olivier, 1790)				1
Elateridae	<i>Stenagostus rhombeus</i> (Olivier, 1790)	VU	PR	12	3
Erotylidae	<i>Triplax elongata</i> Lacordaire, 1842	NT	MB	1	1
Erotylidae	<i>Triplax lacordairii</i> Crotch, 1870	NT	MB	3	1
Erotylidae	<i>Triplax lepida</i> (Faldermann, 1837)	NT	MB	4	
Erotylidae	<i>Triplax marseuli</i> Bedel, 1864	NT	MB		1
Erotylidae	<i>Triplax russica</i> (Linnaeus, 1758)	LC	MB		2
Eucnemidae	<i>Eucnemis capucina</i> Ahrens, 1812	NT	SX		1
Eucnemidae	<i>Hylis cariniceps</i> (Reitter, 1902)	NT	SX	1	14
Eucnemidae	<i>Hylis simonae</i> (Olexa, 1970)	NT	SX	8	14
Eucnemidae	<i>Isorhipis melasoides</i> (Laporte de Castelnau, 1835)	LC	SX		8
Eucnemidae	<i>Melasis buprestoides</i> (Linnaeus, 1760)	LC	SX	3	3
Eucnemidae	<i>Microrhagus pygmaeus</i> (Fabricius, 1793)	NT	SX		2
Kateretidae	<i>Brachypterolus linariae</i> (Stephens, 1830)				2
Histeridae	<i>Atholus duodecimstriatus</i> (Schrank, 1781)				1
Histeridae	<i>Paromalus flavicornis</i> (Herbst, 1792)	LC	PR	1	
Laemophloeidae	<i>Laemophloeus monilis</i> (Fabricius, 1787)			7	6
Lampyridae	<i>Lampyris fuscata</i> Geisthardt, 1987			1	5
Lampyridae	<i>Luciola lusitanica</i> (Charpentier, 1825)			3	2
Latridiidae	<i>Cartodere nodifer</i> (Westwood, 1839)	LC	MY	1	1
Latridiidae	<i>Enicmus atriceps</i> Hansen, 1962	DD	MY	4	4
Latridiidae	<i>Enicmus brevicornis</i> (Mannerheim, 1844)	LC	MY	5	15
Latridiidae	<i>Enicmus fungicola</i> Thomson, 1868	LC	MY		1
Latridiidae	<i>Enicmus testaceus</i> (Stephens, 1830)	LC	MY	1	2
Leiodidae	<i>Agathidium varians</i> Beck, 1817	LC	MY	3	2
Leiodidae	<i>Leiodes</i> sp. A				3
Leiodidae	<i>Leiodes</i> sp. B				1

Lucanidae	<i>Platycerus caprea</i> (De Geer, 1774)	LC	SX	1	
Lucanidae	<i>Platycerus caraboides</i> (Linnaeus, 1758)	LC	SX		4
Lucanidae	<i>Sinodendron cylindricum</i> (Linnaeus, 1758)	LC	SX	2	9
Melandryidae	<i>Abdera quadrifasciata</i> (Curtis, 1829)	NT	MY	3	
Melandryidae	<i>Conopalpus testaceus</i> (Olivier, 1790)	NT	MY	9	5
Melandryidae	<i>Melandrya caraboides</i> (Linnaeus, 1760)	NT	MY		2
Melandryidae	<i>Phloiotrya tenuis</i> (Hampe, 1850)	NT	MY	1	
Melyridae	<i>Aplocnemus nigricornis</i> (Fabricius, 1793)	LC	PR	16	
Melyridae	<i>Danacea ambigua</i> (Mulsant & Rey, 1868)			17	7
Melyridae	<i>Dasytes caeruleus</i> (De Geer, 1774)	LC	PR	3	
Melyridae	<i>Dasytes plumbeus</i> (Müller, 1776)	LC	PR	191	122
Monotomidae	<i>Rhizophagus nitidulus</i> (Fabricius, 1798)	NT	MY	1	
Mordellidae	<i>Mordellistena pumila</i> (Gyllenhal, 1810)				2
Mordellidae	<i>Mordellochroa milleri</i> (Emery, 1878)			3	1
Mycetophagidae	<i>Litargus connexus</i> (Geoffroy, 1785)	LC	MY		1
Mycetophagidae	<i>Mycetophagus atomarius</i> (Fabricius, 1787)	LC	MY	2	
Mycetophagidae	<i>Triphyllus bicolor</i> (Fabricius, 1777)	LC	MY	3	2
Nitidulidae	<i>Acanthogethes brevis</i> (Sturm, 1845)				1
Nitidulidae	<i>Brassicogethes aeneus</i> (Fabricius, 1775)				1
Nitidulidae	<i>Brassicogethes viridescens</i> (Fabricius, 1787)			1	30
Nitidulidae	<i>Carpophilus nepos</i> Murray, 1854			1	
Nitidulidae	<i>Eपुरaea melanocephala</i> (Marsham, 1802)	LC	MY		1
Nitidulidae	<i>Eपुरaea unicolor</i> (Olivier, 1790)	LC	SF		1
Nitidulidae	<i>Eपुरaea fuscicollis</i> (Stephens, 1835)	LC	SF	4	
Nitidulidae	<i>Genistogethes erichsoni</i> (Brisout de Barneville, 1863)				1
Nitidulidae	<i>Lamiogethes brunnicornis</i> (Sturm, 1845)				1
Nitidulidae	<i>Lamiogethes bidens</i> (Brisout de Barneville, 1863)				1
Nitidulidae	<i>Meligethes atratus</i> (Olivier, 1790)			1	
Nitidulidae	<i>Sagittogethes distinctus</i> (Sturm, 1845)			1	
Nitidulidae	<i>Soronia oblonga</i> Brisout de Barneville, 1863	LC	SF		5
Nitidulidae	<i>Thalycra fervida</i> (Olivier, 1790)				3
Oedemeridae	<i>Oedemera podagrariae</i> (Linnaeus 1767)				2
Ptinidae	<i>Dorcatoma punctulata</i> Mulsant & Rey, 1864	VU	XY		1
Ptinidae	<i>Grynobius planus</i> (Fabricius, 1787)	LC	XY	3	
Ptinidae	<i>Hedobia pubescens</i> (Olivier, 1790)	LC	XY	1	1
Ptinidae	<i>Hemicoelus costatus</i> Aragona, 1830	LC	XY	23	20
Ptinidae	<i>Ochina latreilli</i> (Bonelli, 1812)	NT	XY		2

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Ptinidae	<i>Ptilinus pectinicornis</i> (Linnaeus, 1758)	LC	XY	39	9
Ptinidae	<i>Ptinomorphus imperialis</i> (Linnaeus, 1767)	LC	XY	20	
Ptinidae	<i>Ptinomorphus regalis</i> (Duftschmid, 1825)	LC	XY		4
Ptinidae	<i>Stegobium paniceum</i> (Linnaeus, 1758)			1	
Salpingidae	<i>Salpingus planirostris</i> (Fabricius, 1787)	LC	SX	10	5
Salpingidae	<i>Vincenzellus ruficollis</i> (Panzer, 1794)	LC	MY		1
Scarabaeidae	<i>Anoplotrupes stercorosus</i> (Hartmann in Scriba, 1791)			4	1
Scarabaeidae	<i>Aphodius borealis</i> Gyllenhal, 1827			1	2
Scarabaeidae	<i>Aphodius niger</i> (Illiger, 1798)			1	
Scarabaeidae	<i>Aphodius rufa</i> (Moll, 1782)				4
Scarabaeidae	<i>Aphodius rufipes</i> (Linnaeus, 1758)			5	6
Scarabaeidae	<i>Aphodius sticticus</i> (Panzer, 1798)			2	6
Scarabaeidae	<i>Aphodius zenkeri</i> Germar, 1813			2	
Scarabaeidae	<i>Geotrupes stercorarius</i> (Linnaeus, 1758)			1	
Scarabaeidae	<i>Gnorimus nobilis</i> (Linnaeus, 1758)	NT	SX	1	2
Scarabaeidae	<i>Rizothrogus</i> sp.				1
Scarabaeidae	<i>Serica brunnea</i> (Linnaeus, 1758)				3
Scirtidae	<i>Prionocyphon serricornis</i> (Müller, 1821)	NT	HW	2	1
Scirtidae	<i>Elodes</i> cf. <i>gredleri</i> Kiesenwetter, 1863			1	
Scirtidae	<i>Elodes</i> cf. <i>marginata</i> Fabricius, 1798			1	
Scraptiidae	<i>Anaspis costai</i> Emery, 1876	VU	SX	1	
Scraptiidae	<i>Anaspis nigripes</i> Brisout de Barneville 1866			2	6
Scraptiidae	<i>Anaspis rufilabris</i> (Gyllenhal, 1827)	EN	SX	5	
Silphidae	<i>Nicrophorus interruptus</i> Stephens, 1830			5	
Silphidae	<i>Nicrophorus vespilloides</i> (Herbst, 1783)				1
Staphylinidae	<i>Aleochara intricata</i> Mannerheim, 1830				1
Staphylinidae	<i>Aleochara sparsa</i> Heer, 1839			1	1
Staphylinidae	<i>Anthophagus fauveli caprai</i> Koch, 1933			9	3
Staphylinidae	<i>Anthophagus torretassoi torretassoi</i> Koch, 1933			1	
Staphylinidae	<i>Atheta crassicornis</i> (Fabricius, 1793)				3
Staphylinidae	<i>Atheta taxiceroides</i> Munster, 1932			1	4
Staphylinidae	<i>Atrecus affinis</i> (Paykull, 1789)	LC	PR	2	1
Staphylinidae	<i>Bisnius fimetarius</i> (Gravenhorst, 1802)				1
Staphylinidae	<i>Dinothenarus flavocephalus</i> (Goeze, 1777)				1
Staphylinidae	<i>Eusphalerum bargagli</i> (Luze, 1910)			1	
Staphylinidae	<i>Eusphalerum baudii</i> (Fiori, 1894)				14
Staphylinidae	<i>Eusphalerum clavipes</i> (Scriba, 1868)			2	

Staphylinidae	<i>Eusphalerum italicum italicum</i> (Koch, 1938)			2	
Staphylinidae	<i>Eusphalerum martinae</i> (Zanetti, 2004)				4
Staphylinidae	<i>Eusphalerum signatum angulatum</i> (Luze, 1911)			18	4
Staphylinidae	<i>Gyrohypsus fracticornis</i> (Müller, 1776)				1
Staphylinidae	<i>Habrocerus capillaricornis</i> (Gravenhorst, 1806)			1	
Staphylinidae	<i>Haploglossa cf. picipennis</i> (Gyllenhal, 1827)				1
Staphylinidae	<i>Lordithon lunulatus</i> (Linneus, 1760)			2	3
Staphylinidae	<i>Neuraphes</i> sp.				1
Staphylinidae	<i>Ocypus italicus</i> (Aragona, 1830)			3	2
Staphylinidae	<i>Ontholestes murinus</i> (Linnaeus, 1758)				1
Staphylinidae	<i>Paraphloeostiba gayndahensis</i> (MacLeay, 1873)			1	
Staphylinidae	<i>Philonthus carbonarius</i> (Gravenhorst, 1802)				1
Staphylinidae	<i>Philonthus cognatus</i> (Stephens, 1832)				1
Staphylinidae	<i>Philonthus concinnus</i> (Gravenhorst, 1822)				1
Staphylinidae	<i>Philonthus decorus</i> (Gravenhorst, 1802)			1	1
Staphylinidae	<i>Philonthus laminatus</i> (Creutzer, 1799)			1	
Staphylinidae	<i>Philonthus succicola</i> (Thomson, 1860)				1
Staphylinidae	<i>Phloeopora corticalis</i> (Gravenhorst, 1802)	LC	UN	1	
Staphylinidae	<i>Phloeostiba plana</i> (Paykull, 1792)	LC	SX	1	
Staphylinidae	<i>Platystethus nitens</i> (Sahlberg, 1832)				1
Staphylinidae	<i>Quedius cinctus</i> (Paykull, 1790)			1	3
Staphylinidae	<i>Quedius collaris italicus</i> Gridelli, 1925				
Staphylinidae	<i>Quedius humeralis</i> (Stephens, 1832)				2
Staphylinidae	<i>Quedius latialis</i> Gridelli, 1924			2	
Staphylinidae	<i>Quedius levicollis</i> (Brullé, 1832)				1
Staphylinidae	<i>Quedius nigrocaeruleus</i> (Fauvel, 1876)				1
Staphylinidae	<i>Quedius picipes</i> (Mannerheim, 1830)				1
Staphylinidae	<i>Tachinus humeralis</i> Gravenhorst, 1802			1	
Staphylinidae	<i>Tachyporus nitidulus</i> (Fabricius, 1781)				5
Tenebrionidae	<i>Accanthopus velikensis</i> (Piller & Mitterpacher, 1783)	LC	SX	9	5
Tenebrionidae	<i>Cteniopus sulphureus</i> (Linnaeus, 1758)				1
Tenebrionidae	<i>Gonodera luperus</i> (Herbst, 1783)			5	22
Tenebrionidae	<i>Gonodera metallica</i> (Küster, 1850)			1	8
Tenebrionidae	<i>Helops coeruleus</i> (Linnaeus, 1758)	LC	SX	1	
Tenebrionidae	<i>Isomira marcida</i> (Kiesenwetter, 1863)			25	50
Tenebrionidae	<i>Mycetochara linearis</i> (Illiger, 1794)	LC	SX	2	7
Tenebrionidae	<i>Omophlus lepturoides</i> (Fabricius, 1787)				1

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Tenebrionidae	<i>Pseudocistela ceramboides</i> (Linnaeus, 1760)	NT	SX	1	
Tenebrionidae	<i>Stenomax aeneus</i> (Scopoli, 1763)	LC	SX		1
Trogossitidae	<i>Nemozoma elongatum</i> (Linnaeus, 1760)	LC	PR	71	24
Trogossitidae	<i>Thymalus limbatus</i> (Fabricius, 1787)			2	
Zopheridae	<i>Corticus celtis</i> Dejean, 1821	LC	SX		2
Zopheridae	<i>Coxelus pictus</i> (Sturm, 1807)	LC	SX	3	3

Supplementary Table 2. List of species of Birds and number of specimens censused in GSML and CVDA. IUCN = Red List Categories (Gustin et al., 2019). VU = Vulnerable, NT = Near Threatened, LC = Least Concern.

Family	Species	IUCN	GSML	CVDA
Accipitridae	<i>Buteo buteo</i> Linnaeus, 1758	LC	0	1

Certhiidae	<i>Certhia brachydactyla</i> Brehm, 1820	LC	7	5
Columbidae	<i>Columba palumbus</i> Linnaeus, 1758	LC	0	6
Corvidae	<i>Corvus cornix</i> Linnaeus, 1758	LC	1	0
Corvidae	<i>Garrulus glandarius</i> (Linnaeus, 1758)	LC	0	1
Cuculidae	<i>Cuculus canorus</i> Linnaeus, 1758	LC	0	3
Emberizidae	<i>Emberiza citrinella</i> Linnaeus, 1758	VU	1	0
Fringillidae	<i>Fringilla coelebs</i> Linnaeus, 1758	LC	45	25
Fringillidae	<i>Pyrrhula pyrrhula</i> (Linnaeus, 1758)	NT	3	1
Motacillidae	<i>Motacilla cinerea</i> Tunstall, 1771	LC	1	0
Muscicapidae	<i>Erethacus rubecula</i> Linnaeus, 1758	LC	12	3
Paridae	<i>Cyanistes caeruleus</i> (Linnaeus, 1758)	LC	15	6
Paridae	<i>Parus major</i> Linnaeus, 1758	LC	3	1
Paridae	<i>Periparus ater</i> (Linnaeus, 1758)	LC	4	0
Paridae	<i>Poecile palustris</i> (Linnaeus, 1758)	LC	1	0
Phylloscopidae	<i>Phylloscopus collybita</i> (Vieillot, 1817)	LC	10	2
Phylloscopidae	<i>Phylloscopus sibilatrix</i> (Bechstein, 1793)	LC	12	0
Picidae	<i>Dendrocopos major</i> Linnaeus, 1758	LC	0	2
Picidae	<i>Dryocopus martius</i> (Linnaeus, 1758)	LC	0	2
Picidae	<i>Picus viridis</i> , Linneo 1758	LC	1	2
Regulidae	<i>Regulus ignicapilla</i> (Temminck, 1820)	LC	7	17
Sittidae	<i>Sitta europaea</i> Linnaeus, 1758	LC	13	8
Sylviidae	<i>Sylvia atricapilla</i> (Linnaeus, 1758)	LC	4	16
Troglodytidae	<i>Troglodytes troglodytes</i> (Linnaeus, 1758)	LC	23	15
Turdidae	<i>Turdus merula</i> Linnaeus, 1758	LC	24	12
Turdidae	<i>Turdus philomelos</i> C.L.Brehm, 1831	LC	17	5
Turdidae	<i>Turdus viscivorus</i> Linnaeus, 1758	LC	1	0

Supplementary Table 3. List of species of lichens and frequency recorded in GSML and CVDA.

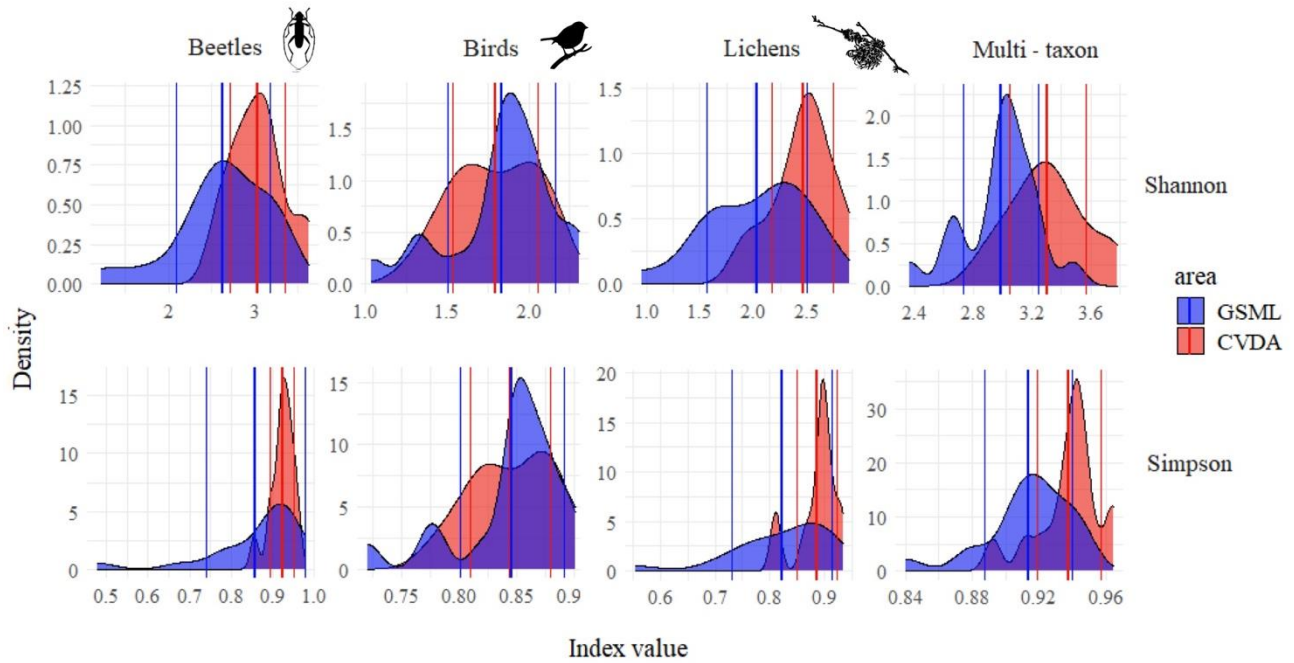
Family	Species	GSML	CVDA
Arthoniaceae	<i>Arthonia radiata</i> (Pers.) Ach.	141	30
Caliciaceae	<i>Buellia griseovirens</i> (Turner & Borrer ex Sm.) Almb.	2	37
Candelariaceae	<i>Candelariella faginea</i> Nimis, Poelt & Puntillo	123	37

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Fuscideaceae	<i>Fuscidea stiriaca</i> (A.Massal.) Hafellner	3	28
Lecanoraceae	<i>Lecanora albella</i> (Pers.) Ach.	488	106
Lecanoraceae	<i>Lecanora allophana</i> (Ach.) Nyl.	178	70
Lecanoraceae	<i>Lecanora argentata</i> (Ach.) Malme	419	67
Lecanoraceae	<i>Lecanora chlarotera</i> Nyl.	20	48
Lecanoraceae	<i>Lecanora intumescens</i> (Rebent.) Rabenh.	491	198
Lecanoraceae	<i>Lecanora umbrina</i> (Ach.) A.Massal.	11	1
Lecanoraceae	<i>Lecidella elaeochroma</i> (Ach.) M.Choisy	768	349
Lobariaceae	<i>Lobaria pulmonaria</i> (L.) Hoffm.	0	16
Ochrolechiaceae	<i>Ochrolechia balcanica</i> Versegly	0	5
Ochrolechiaceae	<i>Ochrolechia pallescens</i> (L.) A.Massal.	21	0
Parmeliaceae	<i>Bryoria nadvornikiana</i> (Gyeln.) Brodo & D.Hawksw.	0	2
Parmeliaceae	<i>Evernia prunastri</i> (L.) Ach.	3	45
Parmeliaceae	<i>Hypogymnia physodes</i> (L.) Nyl.	0	2
Parmeliaceae	<i>Melanelixia glabra</i> (Schaer.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch	53	54
Parmeliaceae	<i>Melanelixia subaurifera</i> (Nyl.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch	29	0
Parmeliaceae	<i>Melanohalea elegantula</i> (Zahlbr.) O. Blanco, A. Crespo, Divakar, Essl., D. Hawksw. & Lumbsch	207	96
Parmeliaceae	<i>Parmelia saxatilis</i> (L.) Ach.	34	329
Parmeliaceae	<i>Parmelia submontana</i> Hale	0	3
Parmeliaceae	<i>Parmelia sulcata</i> Taylor	144	158
Parmeliaceae	<i>Parmelina tiliacea</i> (Hoffm.) Hale	177	128
Parmeliaceae	<i>Platismatia glauca</i> (L.) W. L. Culb. & C. F. Culb.	0	50
Parmeliaceae	<i>Pleurosticta acetabulum</i> (Neck.) Elix & Lumbsch	30	38
Parmeliaceae	<i>Pseudevernia furfuracea</i> (L.) Zopf v. <i>furfuracea</i>	0	3
Pertusariaceae	<i>Lepra albescens</i> (Huds.) Hafellner	20	15
Pertusariaceae	<i>Lepra amara</i> (Ach.) Hafellner	79	91
Pertusariaceae	<i>Lepra slesvicensis</i> (Erichsen) Hafellner	0	75
Pertusariaceae	<i>Pertusaria coccodes</i> (Ach.) Nyl.	11	33
Pertusariaceae	<i>Pertusaria flavida</i> (DC.) J.R.Laundon	5	7
Pertusariaceae	<i>Pertusaria leioplaca</i> (Ach.) DC.	1	54
Pertusariaceae	<i>Pertusaria pertusa</i> (L.) Tuck.	30	296
Pertusariaceae	<i>Pertusaria pustulata</i> (Ach.) Duby	0	5
Pertusariaceae	<i>Pertusaria</i> sp.	10	10
Phlyctidaceae	<i>Phlyctis agelaea</i> (Ach.) Flot.	0	7
Phlyctidaceae	<i>Phlyctis argena</i> (Spreng.) Flot.	108	409

Physciaceae	<i>Anaptychia crinalis</i> (Schaer.) J. Nowak	3	0
Physciaceae	<i>Physcia adscendens</i> H.Olivier	7	1
Physciaceae	<i>Physcia biziana</i> (A.Massal.) Zahlbr. v. <i>biziana</i>	2	0
Physciaceae	<i>Physcia leptalea</i> (Ach.) DC.	3	24
Physciaceae	<i>Physcia stellaris</i> (L.) Nyl.	37	0
Physciaceae	<i>Physconia distorta</i> (With.) J.R.Laundon	3	0
Physciaceae	<i>Physconia servitii</i> (Nádv.) Poelt	0	5
Physciaceae	<i>Physconia venusta</i> (Ach.) Poelt	3	14
Physciaceae	<i>Rinodina exigua</i> (Ach.) Gray	0	2
Pyrenulaceae	<i>Pyrenula nitidella</i> (Schaer.) Müll.Arg.	0	2
Ramalinaceae	<i>Biatora globulosa</i> (Flörke) Fr.	0	5
Ramalinaceae	<i>Lecania naegelia</i> (Hepp) Diederich & Van den Boom	16	0
Ramalinaceae	<i>Ramalina farinacea</i> (L.) Ach.	25	33
Ramalinaceae	<i>Ramalina fraxinea</i> (L.) Ach.	2	72
Ramalinaceae	<i>Ramalina</i> sp.	5	2
Scoliciosporaceae	<i>Scoliciosporum chlorococcum</i> (Stenh.) Vězda	227	46
Stereocaulaceae	<i>Lepraria</i> sp.	11	69
Teloschistaceae	<i>Athallia pyracea</i> (Ach.) Arup, Frödén & Søchting	2	6
Teloschistaceae	<i>Caloplaca cerina</i> (Hedw.) Th.Fr. s.lat.	0	5
Tephromelataceae	<i>Tephromela atra</i> v. <i>torulosa</i> (Flot.) Hafellner	19	67

Supplementary Material



Supplementary Figure 1. Density plot of diversity indices for each study area for the whole communities and grouped by taxa. The thick vertical lines represent the mean and the thin ones the range of the standard deviation.