**Supplementary material Table 3**: species found and their position on the ordination (NMDS1 and NMDS2). Nomenclature follows the following sources: Lichens (Nimis and Martellos, 2008); Butterflies (Van Swaay et al., 2010); other-arthropods (Zhang, 2011); Birds (Cramp, 1998); Mammals (Nowak, 1991).

|  |  |  |  |
| --- | --- | --- | --- |
| **Scientific name** | **Label** | **NMDS1** | **NMDS2** |
| **Other arthropods (18)** | |  |  |
| *Araneae* | Araneae | 0.79 | -0.32 |
| *Anoplura* | Anoplura | 0.60 | 0.05 |
| *Araneae* | Araneae | 0.22 | 0.25 |
| *Coleoptera* | Coleopte | 0.37 | 0.17 |
| *Collembola* | Collembo | -0.64 | 0.18 |
| *Diplura* | Diplura | -5.33 | -2.74 |
| *Diptera* | Diptera | 0.26 | 0.37 |
| *Hemiptera* | Hemipter | 0.51 | -0.31 |
| *Hymenoptera* (excluding ants) | Hymenopt | -0.16 | 0.43 |
| *Lepidoptera* | Lepidopt | -1.30 | 0.69 |
| *Mecoptera* | Mecopter | -0.53 | -0.39 |
| *Neuroptera* | Neuropte | 1.39 | -0.75 |
| *Orthoptera* | Orthopte | 0.08 | 0.17 |
| *Protura* | Protura | 0.11 | -2.52 |
| *Psocoptera* | Psocopte | 2.54 | 0.28 |
| *Siphonaptera* | Siphonap | -5.94 | 2.37 |
| *Thysanoptera* | Thysanop | 0.47 | 0.70 |
| *Thysanura* | Thysanur | 0.52 | 0.25 |
| **Mammals (4)** |  |  |  |
| *Erinaceus europaeus* | Erin\_euro | Na | Na |
| *Martes foina* | Mart\_foin | Na | Na |
| *Oryctolagus cuniculus* | Oryc\_cuni | Na | Na |
| *Vulpes vulpes* | Vulp\_vulp | Na | Na |
| **Lichens (65)** |  |  |  |
| *Amandinea punctata* | Aman\_punc | -0.16 | 0.05 |
| *Arthonia pruinata* | Arth\_prui | 0.48 | 0.21 |
| *Arthonia radiata* | Arth\_radi | -0.47 | 0.89 |
| *Bacidia beckhausii* | Baci\_beck | -0.10 | 1.04 |
| *Bacidia laurocerasii* | Baci\_laur | 0.66 | 0.24 |
| *Buellia erubescens* | Buel\_erub | -0.15 | 0.33 |
| *Buellia schaereri* | Buel\_scha | 0.13 | -0.34 |
| *Calicium glaucellum* | Cali\_glau | 0.84 | 0.73 |
| *Caloplaca holocarpa* | Calo\_holo | -0.49 | 0.16 |
| *Caloplaca obscurella* | Calo\_obsc | 0.42 | -0.33 |
| *Candelaria concolor* | Cand\_conc | -0.53 | 0.05 |
| *Candelariella reflexa* | Cand\_refl | -0.74 | -0.13 |
| *Candelariella xanthostigma* | Cand\_xant | -0.37 | -0.03 |
| *Catillaria cfr. nigroclavata* | Cati\_nigr | 0.07 | 0.52 |
| *Chrysotrix candelaris* | Chri\_cand | 0.37 | -0.06 |
| *Cladonia pyxidata* | Clad\_pyxi | 0.54 | -0.17 |
| *Dimerella pineti* | Dime\_pine | 0.25 | -0.06 |
| *Dimerella tavaresiana* | Dime\_tava | 0.03 | -0.13 |
| *Diploicia canescens* | Dipl\_cane | 0.02 | -0.20 |
| *Evernia prunastri* | Ever\_prun | 0.29 | 0.07 |
| *Flavoparmelia caperata* | Flav\_cape | 0.28 | 0.16 |
| *Flavoparmelia soredians* | Flav\_sore | 0.36 | 0.07 |
| *Hyperphyscia adglutinata* | Hype\_adgl | -0.33 | -0.15 |
| *Lecania cyrtella* | Leca\_cyrt | -0.01 | -0.38 |
| *Lecania naegelii* | Leca\_naeg | -0.64 | 0.59 |
| *Lecanographa amylacea* | Leca\_amyl | 0.00 | 0.17 |
| *Lecanora chlarotera* | Leca\_chla | -0.21 | 0.41 |
| *Lecanora horiza* | Leca\_hori | -0.94 | 0.57 |
| *Lecanora strobilina* | Leca\_stro | 0.23 | 0.49 |
| *Lecidella elaeochroma* | Leci\_elae | -0.86 | -0.03 |
| *Lepraria sp.* | Lepr\_spec | 0.30 | 0.04 |
| *Micarea prasina* | Mica\_pras | 0.13 | -0.09 |
| *Opegrapha celtidicola* | Opeg\_celt | -1.30 | 0.51 |
| *Opegrapha vulgata* | Opeg\_vulg | 0.04 | -0.18 |
| *Parmelia saxatilis* | Parm\_saxa | 0.17 | -0.07 |
| *Parmoterma hypoleucinum* | Parm\_hypo | 0.28 | 0.00 |
| *Parmotrema perlatum* | Parm\_perl | 0.28 | 0.26 |
| *Parmotrema reticulatum* | Parm\_reti | 0.40 | -0.03 |
| *Parmotrema stuppeum* | Parm\_stup | 0.38 | 0.67 |
| *Pertusaria heterochroa* | Pert\_hete | -0.02 | 0.28 |
| *Pertusaria pertusa* | Pert\_pert | -0.04 | -1.01 |
| *Phaeophyscia chloantha* | Phae\_chlo | -0.08 | -0.92 |
| *Phaeophyscia hirsuta* | Phae\_hirs | -0.48 | -0.78 |
| *Phaeophyscia orbicularis* | Phae\_orbi | -0.25 | -0.16 |
| *Physcia adscendens* | Phys\_adsc | -0.30 | -0.13 |
| *Physcia clementei* | Phys\_clem | -0.34 | -0.28 |
| *Physcia erumpens* | Phys\_erum | -0.12 | -0.10 |
| *Physcia tenella* | Phys\_tene | 0.27 | -0.57 |
| *Physconia enteroxantha* | Phys\_ente | -0.95 | -0.32 |
| *Physconia perisidiosa* | Phys\_peri | -0.19 | -0.36 |
| *Punctelia borreri* | Punc\_borr | -0.03 | 0.14 |
| *Punctelia subrudecta* | Punc\_subr | 0.43 | 0.35 |
| *Pyrrhospora quernea* | Pyrr\_quer | 0.24 | 0.00 |
| *Ramalina canariensis* | Rama\_cana | -0.16 | 0.10 |
| *Ramalina fastigiata* | Rama\_fast | 0.38 | 0.67 |
| *Ramalina farinacea* | Rama\_fari | -0.03 | 0.10 |
| *Ramalina fraxinea* | Rama\_frax | -0.01 | -0.25 |
| *Ramalina lacera* | Rama\_lace | 0.25 | -0.10 |
| *Rinodina capensis* | Rino\_cape | 0.30 | -0.01 |
| *Schismatomma decolorans* | Schi\_deco | 0.14 | -0.24 |
| *Strangospora pinicola* | Stra\_pini | 0.41 | 0.44 |
| *Usnea filipendula* | Usne\_fili | 0.94 | 0.29 |
| *Usnea rubicunda* | Usne\_rubi | 0.48 | 0.21 |
| *Usnea sp.* | Usne\_spec | 0.03 | 0.54 |
| *Xanthoria parietina* | Xant\_pari | -0.69 | -0.20 |
| **Birds (40)** |  |  |  |
| *Aegithalos caudatus* | Aegi\_caud | 0.34 | 0.38 |
| *Apus apus* | Apus\_apus | -0.10 | 0.71 |
| *Apus pallidus* | Apus\_pall | 0.01 | 0.68 |
| *Buteo buteo* | Bute\_bute | 0.04 | 0.51 |
| *Carduelis carduelis* | Card\_card | 0.15 | 0.20 |
| *Carduelis chloris* | Card\_chlo | 0.23 | -0.32 |
| *Certhia brachydactyla* | Cert\_brac | 0.13 | 0.01 |
| *Cisticola juncidis* | Cist\_junc | 0.56 | 0.02 |
| *Columba livia* | Colu\_livi | 0.39 | -0.97 |
| *Columba palumbus* | Colu\_palu | 0.38 | 0.97 |
| *Corvus corone* | Corv\_coro | -0.39 | 0.57 |
| *Delichon urbicum* | Deli\_urbi | 0.24 | -0.12 |
| *Dendrocopos major* | Dend\_majo | -0.71 | 0.14 |
| *Emberiza cirlus* | Embe\_cirl | -0.93 | 1.07 |
| *Erithacus rubecula* | Erit\_rube | -0.66 | -0.22 |
| *Falco tinnunculus* | Falc\_tinn | 0.05 | -0.19 |
| *Fringilla coelebs* | Frin\_coel | -0.93 | 1.07 |
| *Garrulus glandarius* | Garr\_glan | -0.34 | -0.30 |
| *Hirundo daurica* | Hiru\_daur | -0.73 | 0.74 |
| *Hirundo rustica* | Hiru\_rust | 0.13 | 0.19 |
| *Lullula arborea* | Lull\_arbo | -1.06 | -0.58 |
| *Parus ater* | Paru\_ater | -0.18 | 0.31 |
| *Parus caeruleus* | Paru\_caer | 0.26 | 0.19 |
| *Parus cristatus* | Paru\_cris | -0.25 | 0.04 |
| *Parus major* | Paru\_majo | -0.19 | 0.74 |
| *Passer domesticus* | Pass\_dome | 0.64 | 0.23 |
| *Phoenicurus ochruros* | Phoe\_ochr | 0.84 | 0.19 |
| *Phylloscopus ibericus* | Phyl\_iber | -0.05 | 0.60 |
| *Psittacula krameri* | Psit\_kram | 0.00 | -0.04 |
| *Regulus ignicapilla* | Regu\_igni | -0.21 | 0.42 |
| *Saxicola torquatus* | Saxi\_torq | 0.69 | 0.34 |
| *Serinus serinus* | Seri\_seri | -0.24 | 0.33 |
| *Streptopelia decaocto* | Stre\_deca | 0.16 | -0.08 |
| *Streptopelia turtur* | Stre\_turt | -0.90 | -0.12 |
| *Sturnus unicolor* | Stur\_unic | -0.20 | 0.17 |
| *Sylvia atricapilla* | Sylv\_atri | 0.05 | -0.09 |
| *Sylvia melanocephala* | Sylv\_mela | -0.23 | -0.09 |
| *Troglodytes troglodytes* | Trog\_trog | -0.27 | -0.14 |
| *Turdus merula* | Turd\_meru | -0.09 | -0.19 |
| *Upupa epops* | Upup\_epop | -1.00 | 0.06 |
| **Butterflies (18)** |  |  |  |
| *Aricia cramera* | Aric\_cram | -1.65 | -0.78 |
| *Colias croceus* | Coli\_croc | -1.09 | 1.34 |
| *Gonepteryx cleopatra* | Gone\_cleo | 0.054 | 1.10 |
| *Hipparchia fidia* | Hipp\_fidi | -1.51 | 1.54 |
| *Idaea ochrata* | Idae\_ochr | 1.52 | -0.68 |
| *Iphiclides feisthamelii* | Iphi\_feis | -0.23 | 0.81 |
| *Leptotes pirithous* | Lept\_piri | 0.518 | 1.26 |
| *Lycaena phlaeas* | Lyca\_phla | -0.17 | -0.19 |
| *Maniola jurtina* | Mani\_jurt | 0.109 | 0.04 |
| *Papilio machaon* | Papi\_mach | 0.43 | 0.58 |
| *Pararge aegeria* | Para\_aege | -0.14 | 0.51 |
| *Pieris brassicae* | Pier\_bras | 0.14 | 0.29 |
| *Pieria rapae* | Pier\_rapa | 0.75 | 0.99 |
| *Polyommatus icarus* | Poly\_icar | -1.23 | 1.22 |
| *Pontia daplidic* | Pont\_dapl | -0.58 | 0.04 |
| *Pyronia cecilia* | Pyro\_ceci | 0.970 | -0.04 |
| *Pyronia tithonus* | Pyro\_tith | -0.32 | -0.07 |
| *Thymelicus acteon* | Thym\_acte | 0.11 | 1.32 |

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