

Land-use policies overcome fire suppression effects on functional diversity in a fire-prone, abandoned mountain area

Landscape Ecology

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Appendix A. Information concerning the 102 species analyzed in this study. Species taxonomic group, scientific name, regional conservation status (according to the International Union for Conservation of Nature - IUCN), and functional traits: diet, habitat preference (Habitat), disperser (DISP), Pest control (PEST), disease prevention (DPREV), population control (POPC), nest provider (NPROV), important prey (IPREY), parasite host (PHOST).

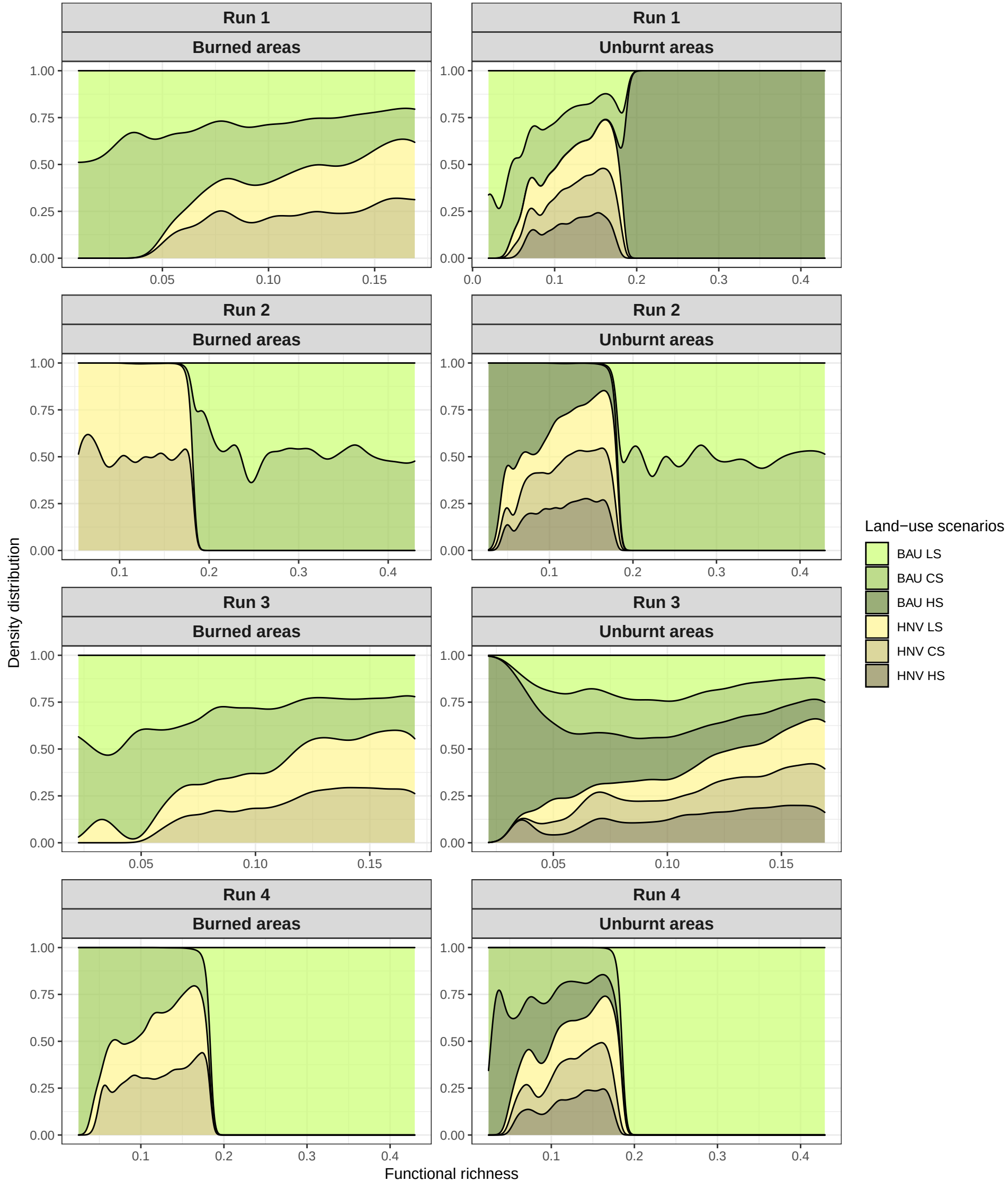
Group	Scientific name	Regional IUCN status	Diet	Habitat	DISP	PEST	DPREV	POPC	NPROV	IPREY	PHOST
Amphibia	<i>Alytes obstetricans</i>	NT	Invertivore	Wetlands	No	Yes	No	No	No	No	Yes
Amphibia	<i>Bufo spinosus</i>	LC	Invertivore	Water/generalist	No	Yes	No	Yes	No	No	Yes
Amphibia	<i>Epidalea calamita</i>	LC	Invertivore	Wetlands	No	No	No	Yes	No	No	No
Amphibia	<i>Lissotriton boscai</i>	LC	Invertivore	Wetlands	No	No	No	Yes	No	No	No
Amphibia	<i>Pelophylax perezi</i>	LC	Invertivore	Water/generalist	No	No	No	Yes	No	Yes	No
Amphibia	<i>Rana iberica</i>	VU	Invertivore	Wetlands	No	No	No	Yes	No	No	No
Amphibia	<i>Salamandra salamandra</i>	VU	Invertivore	Wetlands	No	No	No	Yes	No	No	No
Amphibia	<i>Triturus marmoratus</i>	LC	Carnivore	Wetlands	No	No	No	Yes	No	No	No
Aves	<i>Apus apus</i>	LC	Insectivore	Anthropogenic	No	Yes	No	Yes	No	No	No
Aves	<i>Alauda arvensis</i>	LC	Granivore	Shrublands	No	Yes	No	No	No	Yes	No
Aves	<i>Anthus campestris</i>	LC	Insectivore	Shrublands	No	Yes	No	No	Yes	No	No
Aves	<i>Aegithalos caudatus</i>	LC	Insectivore	Forest	Yes	Yes	No	No	Yes	Yes	Yes
Aves	<i>Aquila chrysaetos</i>	EN	Carnivore	Mountain	No	No	No	Yes	No	No	No
Aves	<i>Alectoris rufa</i>	DD	Granivore	Agricultural	Yes	No	No	No	No	No	No
Aves	<i>Anthus trivialis</i>	NT	Insectivore	Forest	No	Yes	No	No	Yes	No	No
Aves	<i>Buteo buteo</i>	LC	Carnivore	Forest	No	No	No	Yes	Yes	No	Yes
Aves	<i>Certhia brachydactyla</i>	LC	Insectivore	Forest	No	Yes	No	Yes	Yes	No	No
Aves	<i>Cuculus canorus</i>	LC	Insectivore	Agricultural	No	Yes	No	No	No	No	No
Aves	<i>Carduelis carduelis</i>	LC	Granivore	Agricultural	Yes	No	No	No	Yes	Yes	Yes
Aves	<i>Carduelis chloris</i>	LC	Granivore	Forest	Yes	No	No	No	Yes	Yes	Yes
Aves	<i>Cinclus cinclus</i>	LC	Insectivore	Forest	No	Yes	No	No	No	No	Yes
Aves	<i>Corvus corone</i>	LC	Carnivore	Agricultural	No	Yes	Yes	Yes	Yes	No	Yes
Aves	<i>Coturnix coturnix</i>	DD	Granivore	Agricultural	Yes	Yes	No	No	No	No	Yes

Aves	<i>Circus cyaneus</i>	CR	Carnivore	Mountain	No	Yes	No	Yes	No	Yes	No
Aves	<i>Corvus corax</i>	LC	Omnivore	Mountain	No	Yes	Yes	Yes	No	No	No
Aves	<i>Columba palumbus</i>	LC	Granivore	Forest	Yes	No	No	No	No	Yes	Yes
Aves	<i>Circus pygargus</i>	EN	Carnivore	Shrublands	No	No	No	Yes	Yes	No	Yes
Aves	<i>Dendrocopos major</i>	LC	Insectivore	Forest	No	Yes	No	No	Yes	No	Yes
Aves	<i>Delichon urbicum</i>	LC	Insectivore	Anthropogenic	No	Yes	No	No	Yes	No	Yes
Aves	<i>Emberiza cirrus</i>	LC	Granivore	Agricultural	Yes	Yes	No	No	Yes	Yes	No
Aves	<i>Emberiza citrinella</i>	VU	Granivore	Shrublands	Yes	Yes	No	No	Yes	Yes	No
Aves	<i>Erithacus rubecula</i>	LC	Insectivore	Agricultural	No	Yes	No	Yes	Yes	No	Yes
Aves	<i>Fringilla coelebs</i>	LC	Granivore	Forest	Yes	Yes	No	Yes	Yes	Yes	Yes
Aves	<i>Falco peregrinus</i>	VU	Carnivore	Mountain	No	Yes	No	Yes	No	No	Yes
Aves	<i>Falco subbuteo</i>	VU	Carnivore	Forest	No	Yes	No	Yes	No	No	No
Aves	<i>Falco tinnunculus</i>	LC	Carnivore	Shrublands	No	Yes	No	Yes	No	No	No
Aves	<i>Garrulus glandarius</i>	LC	Omnivore	Forest	Yes	Yes	Yes	No	No	Yes	No
Aves	<i>Hippolais polyglotta</i>	LC	Insectivore	Shrublands	No	Yes	No	No	Yes	No	Yes
Aves	<i>Hirundo rustica</i>	LC	Insectivore	Anthropogenic	No	Yes	No	Yes	Yes	Yes	Yes
Aves	<i>Lullula arborea</i>	LC	Insectivore	Shrublands	No	Yes	No	Yes	No	No	No
Aves	<i>Linaria cannabina</i>	LC	Granivore	Agricultural	Yes	No	No	No	Yes	No	No
Aves	<i>Lanius collurio</i>	NT	Carnivore	Shrublands	No	Yes	No	Yes	Yes	No	Yes
Aves	<i>Lophophanes cristatus</i>	LC	Insectivore	Forest	Yes	Yes	No	Yes	No	No	Yes
Aves	<i>Lanius excubitor</i>	LC	Carnivore	Shrublands	No	No	No	Yes	No	No	No
Aves	<i>Luscinia megarhynchos</i>	LC	Insectivore	Shrublands	No	Yes	No	No	Yes	Yes	No
Aves	<i>Motacilla alba</i>	LC	Insectivore	Agricultural	No	Yes	No	No	Yes	Yes	No
Aves	<i>Emberiza calandra</i>	LC	Granivore	Agricultural	Yes	Yes	No	Yes	Yes	Yes	No
Aves	<i>Motacilla cinerea</i>	LC	Insectivore	Forest	No	Yes	No	No	Yes	No	No
Aves	<i>Monticola saxatilis</i>	EN	Insectivore	Mountain	No	Yes	No	Yes	No	No	Yes
Aves	<i>Monticola solitarius</i>	LC	Insectivore	Mountain	No	Yes	No	No	Yes	Yes	Yes
Aves	<i>Oenanthe hispanica</i>	VU	Insectivore	Mountain	Yes	Yes	No	No	Yes	No	Yes

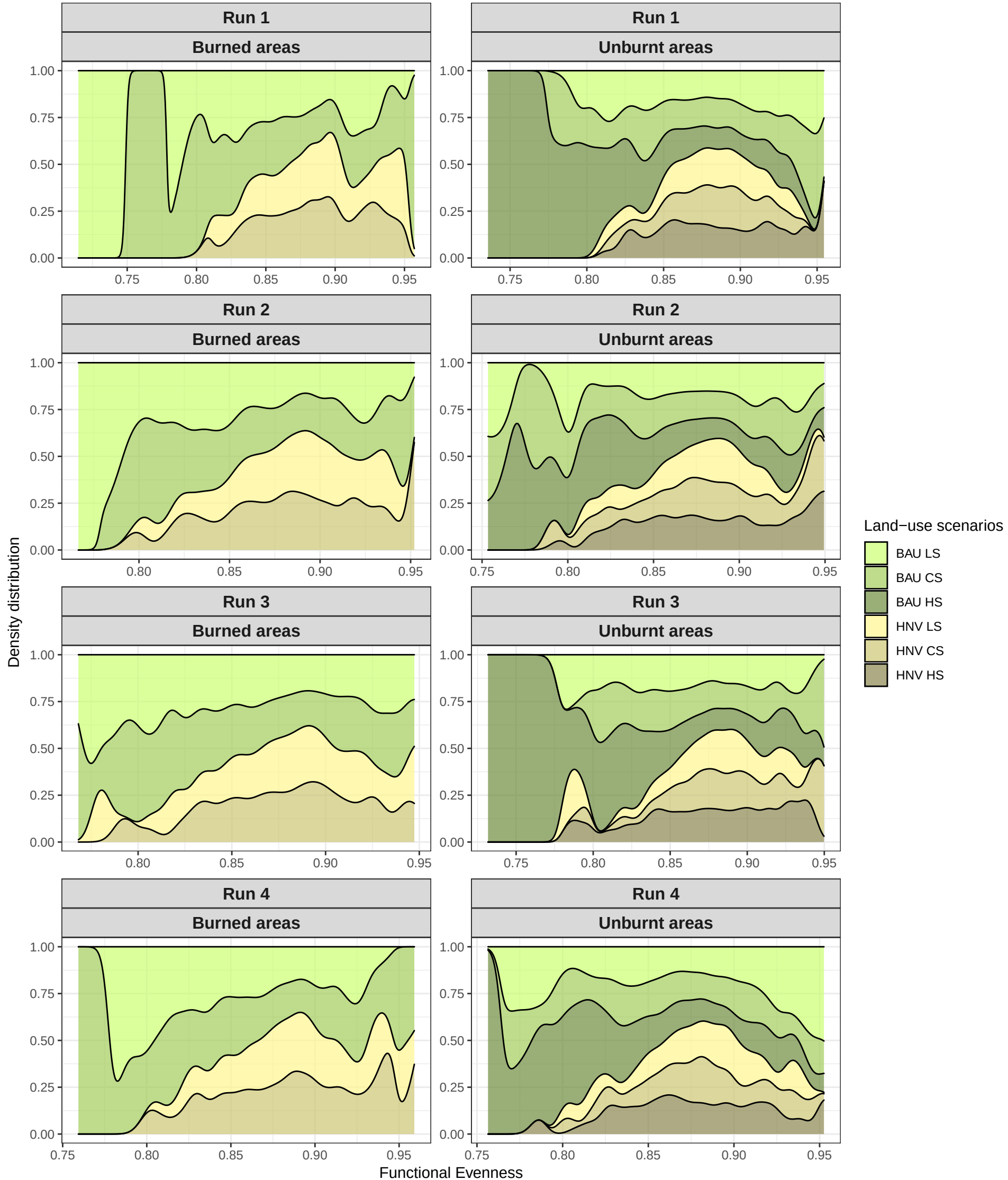
Aves	<i>Oenanthe oenanthe</i>	LC	Insectivore	Mountain	No	Yes	No	Yes	Yes	Yes	Yes
Aves	<i>Oriolus oriolus</i>	LC	Insectivore	Forest	No	Yes	No	No	No	Yes	Yes
Aves	<i>Otus scops</i>	DD	Insectivore	Shrublands	No	Yes	No	No	No	No	Yes
Aves	<i>Pernis apivorus</i>	VU	Omnivore	Forest	No	Yes	No	Yes	Yes	No	Yes
Aves	<i>Periparus ater</i>	LC	Insectivore	Forest	Yes	Yes	No	Yes	No	No	Yes
Aves	<i>Phylloscopus bonelli</i>	LC	Insectivore	Forest	No	Yes	No	No	Yes	Yes	No
Aves	<i>Cyanistes caeruleus</i>	LC	Insectivore	Forest	Yes	Yes	No	Yes	No	No	Yes
Aves	<i>Phylloscopus collybita</i>	LC	Insectivore	Forest	No	Yes	No	No	Yes	No	Yes
Aves	<i>Passer domesticus</i>	LC	Omnivore	Anthropogenic	Yes	No	No	Yes	No	Yes	Yes
Aves	<i>Phylloscopus ibericus</i>	LC	Insectivore	Forest	No	Yes	No	No	No	No	Yes
Aves	<i>Parus major</i>	LC	Insectivore	Forest	Yes	Yes	No	Yes	No	Yes	Yes
Aves	<i>Prunella modularis</i>	LC	Insectivore	Shrublands	Yes	Yes	No	No	Yes	No	Yes
Aves	<i>Passer montanus</i>	LC	Insectivore	Agricultural	Yes	Yes	No	Yes	No	Yes	Yes
Aves	<i>Phoenicurus ochruros</i>	LC	Insectivore	Anthropogenic	Yes	Yes	No	No	Yes	Yes	No
Aves	<i>Pyrrhula pyrrhula</i>	LC	Granivore	Forest	Yes	No	No	No	No	Yes	No
Aves	<i>Ptyonoprogne rupestris</i>	LC	Insectivore	Mountain	No	Yes	No	No	Yes	Yes	No
Aves	<i>Picus viridis</i>	LC	Insectivore	Forest	No	Yes	No	No	Yes	No	Yes
Aves	<i>Pyrrhocorax pyrrhocorax</i>	EN	Insectivore	Mountain	Yes	Yes	No	No	No	No	Yes
Aves	<i>Regulus ignicapilla</i>	LC	Insectivore	Forest	No	Yes	No	No	No	Yes	Yes
Aves	<i>Riparia riparia</i>	LC	Insectivore	Shrublands	No	Yes	No	No	Yes	No	Yes
Aves	<i>Strix aluco</i>	LC	Carnivore	Forest	No	Yes	No	Yes	No	No	Yes
Aves	<i>Sylvia atricapilla</i>	LC	Insectivore	Shrublands	Yes	Yes	No	No	Yes	Yes	Yes
Aves	<i>Sylvia borin</i>	VU	Insectivore	Forest	Yes	Yes	No	No	Yes	Yes	Yes
Aves	<i>Sylvia communis</i>	LC	Insectivore	Shrublands	Yes	Yes	No	No	Yes	Yes	Yes
Aves	<i>Sitta europaea</i>	LC	Insectivore	Forest	Yes	Yes	No	No	No	No	Yes
Aves	<i>Sylvia melanocephala</i>	LC	Insectivore	Shrublands	Yes	Yes	No	No	Yes	No	Yes
Aves	<i>Serinus serinus</i>	LC	Granivore	Agricultural	Yes	Yes	No	No	Yes	Yes	Yes
Aves	<i>Saxicola torquatus</i>	LC	Insectivore	Shrublands	Yes	Yes	No	No	Yes	No	No

Aves	<i>Streptopelia turtur</i>	VU	Granivore	Forest	Yes	No	No	No	No	No	Yes
Aves	<i>Sylvia undata</i>	LC	Insectivore	Shrublands	No	Yes	No	No	No	No	No
Aves	<i>Sturnus unicolor</i>	LC	Omnivore	Anthropogenic	Yes	Yes	No	Yes	Yes	Yes	Yes
Aves	<i>Turdus merula</i>	LC	Omnivore	Agricultural	Yes	No	No	Yes	Yes	Yes	Yes
Aves	<i>Turdus philomelos</i>	NT	Omnivore	Forest	Yes	Yes	No	No	No	Yes	Yes
Aves	<i>Troglodytes troglodytes</i>	LC	Insectivore	Shrublands	No	Yes	No	No	Yes	Yes	Yes
Aves	<i>Turdus viscivorus</i>	LC	Omnivore	Forest	Yes	Yes	No	No	Yes	Yes	Yes
Aves	<i>Upupa epops</i>	LC	Insectivore	Agricultural	Yes	Yes	No	No	No	No	Yes
Reptilia	<i>Anguis fragilis</i>	LC	Invertivore	Semi-open	No	Yes	No	No	No	Yes	No
Reptilia	<i>Coronella austriaca</i>	VU	Carnivore	Semi-open	No	No	No	Yes	No	No	Yes
Reptilia	<i>Coronella girondica</i>	LC	Carnivore	Semi-open	No	No	No	Yes	No	No	Yes
Reptilia	<i>Chalcides striatus</i>	LC	Invertivore	Semi-open	No	No	No	Yes	No	Yes	No
Reptilia	<i>Lacerta schreiberi</i>	NT	Omnivore	Semi-open	No	No	No	Yes	No	Yes	Yes
Reptilia	<i>Malpolon monspessulanus</i>	LC	Carnivore	Generalist	No	Yes	No	Yes	No	No	Yes
Reptilia	<i>Natrix astreptophora</i>	LC	Carnivore	Water/generalist	No	No	No	Yes	No	No	No
Reptilia	<i>Natrix maura</i>	LC	Carnivore	Water/generalist	No	Yes	No	Yes	No	No	Yes
Reptilia	<i>Psammodromus algirus</i>	LC	Invertivore	Semi-open	No	Yes	No	Yes	No	Yes	Yes
Reptilia	<i>Podarcis bocagei</i>	LC	Invertivore	Rocky/generalist	No	No	No	Yes	No	No	Yes
Reptilia	<i>Podarcis guadarramae</i>	LC	Invertivore	Rocky/generalist	No	No	No	Yes	No	No	Yes
Reptilia	<i>Timon lepidus</i>	LC	Omnivore	Semi-open	Yes	Yes	No	No	No	Yes	Yes
Reptilia	<i>Vipera latastei</i>	VU	Carnivore	Rocky/shrublands	No	Yes	No	Yes	No	No	Yes
Reptilia	<i>Vipera seoanei</i>	EN	Carnivore	Rocky/shrublands	No	Yes	No	Yes	No	No	No
Reptilia	<i>Zamenis scalaris</i>	LC	Carnivore	Semi-open	No	Yes	No	Yes	No	No	No

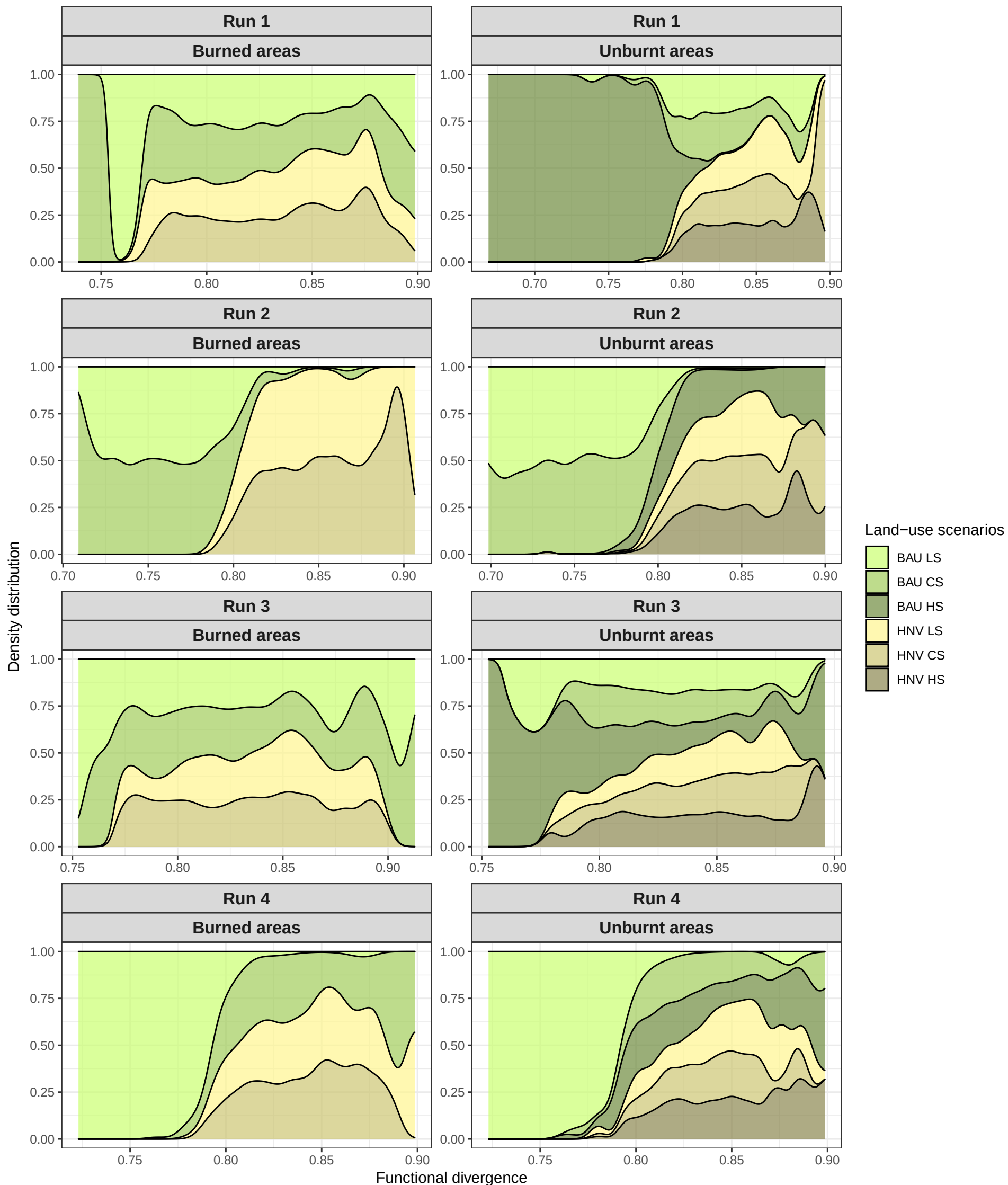
Appendix B. Density distribution plots of the functional richness (FRic; first four model replicates)



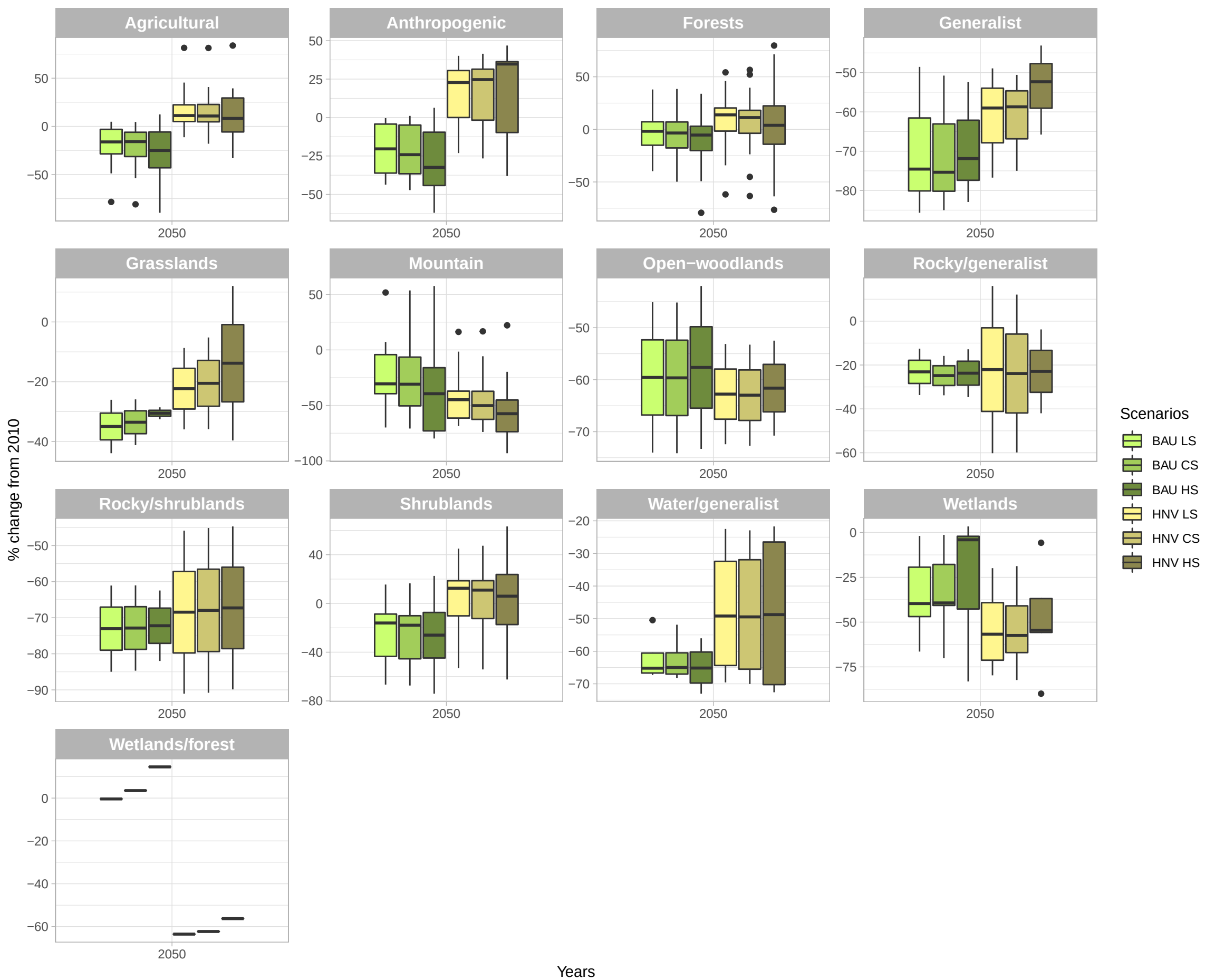
Appendix C. Density distribution plots of the functional evenness (FEve; first four model replicates)



Appendix D. Density distribution plots of the functional divergence (FDiv; first four model replicates)



Appendix E. Total habitat availability (% of change) according to functional groups (habitat preference)



Appendix F. Total habitat availability (% of change) according to functional groups (diet)

