

Ecography

E4562

Martikainen, P., Kouki, J. and Heikkala, O. 2006. The effects of green tree retention and subsequent prescribed burning on ground beetles (Coleoptera: Carabidae) in boreal pine-dominated forests. – *Ecography* 29: 659–670.

Appendix 1. Number of individuals of each species in the whole data and their standardized relative abundance (%) in different habitats. The species are tentatively grouped according to their occurrence in harvested/uncut forests and unburned/burned sites. Species with less than ten individuals are classified as “rare”. Question marks in the last two columns indicate that species was not recorded in the respective treatments.

Species group	Number of individuals	Uncut forests	Burned sites	Retention tree groups	
		(%) ^a	(%) ^b	burned sites (%) ^c	unburned sites (%) ^d
“Forest species”					
<i>Calathus micropterus</i> (Duftschmid)	572	71.1	33.0	77.3	50.0
<i>Notiophilus biguttatus</i> (Fabricius)	171	61.2	71.3	91.2	38.5
<i>Carabus glabratus</i> Paykull	62	88.0	17.7	75.0	63.6
<i>Cychrus caraboides</i> (Linnaeus)	29	67.9	6.9	0	25.0
“Indifferent species”					
<i>Pterostichus oblongopunctatus</i> (Fabricius)	548	43.8	28.5	76.5	37.3
<i>Notiophilus palustris</i> (Duftschmid)	32	40.9	53.1	77.8	0
“Open-habitat species”					
<i>Amara lunicollis</i> Schiödte	42	0	52.4	26.7	0
<i>Pterostichus strenuus</i> (Panzer)	33	0	48.5	40.0	0
<i>Agonum fuliginosum</i> (Panzer)	12	0	25.0	50.0	11.1
<i>Pterostichus rhaeticus</i> Heer	10	0	20.0	?	16.7
“Open-habitat fire-loving species”					
<i>Pterostichus adstrictus</i> Eschscholtz	3477	3.7	95.5	55.8	10.1
<i>Bembidion lampros</i> (Herbst)	156	3.8	98.7	41.7	0
<i>Harpalus laevipes</i> Zetterstedt	86	9.8	88.4	42.9	22.2
<i>Sericoda quadripunctata</i> (DeGeer)	54	0	100	82.4	?
<i>Notiophilus germinyi</i> Fauvel	48	21.4	91.7	85.7	33.3
<i>Amara nigricornis</i> Thomson	47	0	89.4	21.4	?
<i>Amara praetermissa</i> (Sahlberg)	44	0	97.7	10.8	0
<i>Miscodera arctica</i> (Paykull)	43	0	97.7	27.8	?
<i>Poecilus versicolor</i> (Sturm)	43	0	97.7	20.0	0
<i>Bembidion grapii</i> Gyllenhal	43	36.8	100	93.8	?
<i>Cicindela sylvatica</i> Linnaeus	26	0	100	73.1	?
<i>Notiophilus aquaticus</i> (Linnaeus)	23	0	87.0	94.4	0
<i>Cicindela campestris</i> Linnaeus	21	0	100	0	?
<i>Agonum sexpunctatum</i> (Linnaeus)	19	0	94.7	28.6	0
<i>Harpalus solitarius</i> Dejean	19	0	94.7	33.3	?
<i>Amara quenseli</i> (Schönherr)	13	0	100	0	?
“Rare species”					
<i>Amara gebleri</i> Dejean	1	100	0	?	?
<i>Trechus rivularis</i> (Gyllenhal)	1	100	0	?	?
<i>Carabus violaceus</i> Linnaeus	2	75.0	0	?	?
<i>Pterostichus melanarius</i> (Illiger)	2	75.0	0	?	0
<i>Amara brunnea</i> (Gyllenhal)	6	37.5	50.0	100	100
<i>Pterostichus diligens</i> (Sturm)	7	33.3	71.4	0	0
<i>Cymindis vaporariorum</i> (Linnaeus)	8	30.0	100	33.3	?

<i>Patrobus assimilis</i> Chaudoir	5	0	0	?	0
<i>Platynus mannerheimii</i> (Dejean)	2	0	0	?	50.0
<i>Amara plebeja</i> (Gyllenhal)	1	0	0	?	0
<i>Calathus melanocephalus</i> (Linnaeus)	1	0	0	?	0
<i>Notiophilus reitteri</i> Spaeth	1	0	0	?	100
<i>Synuchus vivalis</i> (Illiger)	1	0	0	?	?
<i>Pterostichus nigrita</i> (Paykull)	5	0	40.0	?	0
<i>Leistus terminatus</i> (Panzer)	2	0	50.0	0	?
<i>Dicheirotichus placidus</i> (Gyllenhal)	2	0	50.0	0	?
<i>Bradycellus caucasicus</i> (Chaudoir)	5	0	80.0	66.7	0
<i>Amara communis</i> (Panzer)	8	0	87.5	0	?
<i>Clivina fossor</i> (Linnaeus)	9	0	100	33.3	?
<i>Harpalus affinis</i> (Schränk)	3	0	100	0	?
<i>Pterostichus crenatus</i> (Duftschmid)	3	0	100	?	?
<i>Dicheirotichus cognatus</i> (Gyllenhal)	3	0	100	0	?
<i>Bembidion quadrimaculatum</i> (Linnaeus)	2	0	100	0	?
<i>Carabus cancellatus</i> Illiger	2	0	100	50.0	?
<i>Harpalus latus</i> (Linnaeus)	2	0	100	100	?
<i>Microlestes minutulus</i> (Goeze)	2	0	100	50.0	?
<i>Amara famelica</i> Zimmermann	1	0	100	0	?
<i>Amara ovata</i> (Fabricius)	1	0	100	?	?
<i>Bembidion bruxellense</i> Wesmaël	1	0	100	100	?
<i>Bembidion gilvipes</i> Sturm	1	0	100	0	?
<i>Bembidion mannerheimii</i> Sahlberg	1	0	100	0	?
<i>Cymindis macularis</i> Mannerheim	1	0	100	100	?
<i>Harpalus tardus</i> (Panzer)	1	0	100	0	?
<i>Patrobus atrorufus</i> (Ström)	1	0	100	100	?
<i>Pterostichus minor</i> (Gyllenhal)	1	0	100	100	?
<i>Pterostichus quadrioveolatus</i> Letzner	1	0	100	100	?
<i>Trechus secalis</i> (Paykull)	1	0	100	100	?

^aCalculated as follows: (number of individuals in uncut forests/(number of individuals in uncut forests+(number of individuals in harvested sites/3))) × 100.

^bCalculated as follows: (number of individuals in burned sites/total catch) × 100.

^cCalculated as follows: (number of individuals in tree groups/total catch in burned 10 m³ ha⁻¹ and 50 m³ ha⁻¹ sites) × 100.

^dCalculated as follows: (number of individuals in tree groups/total catch in unburned 10 m³ ha⁻¹ and 50 m³ ha⁻¹ sites) × 100.