Supplementary Figures and Tables

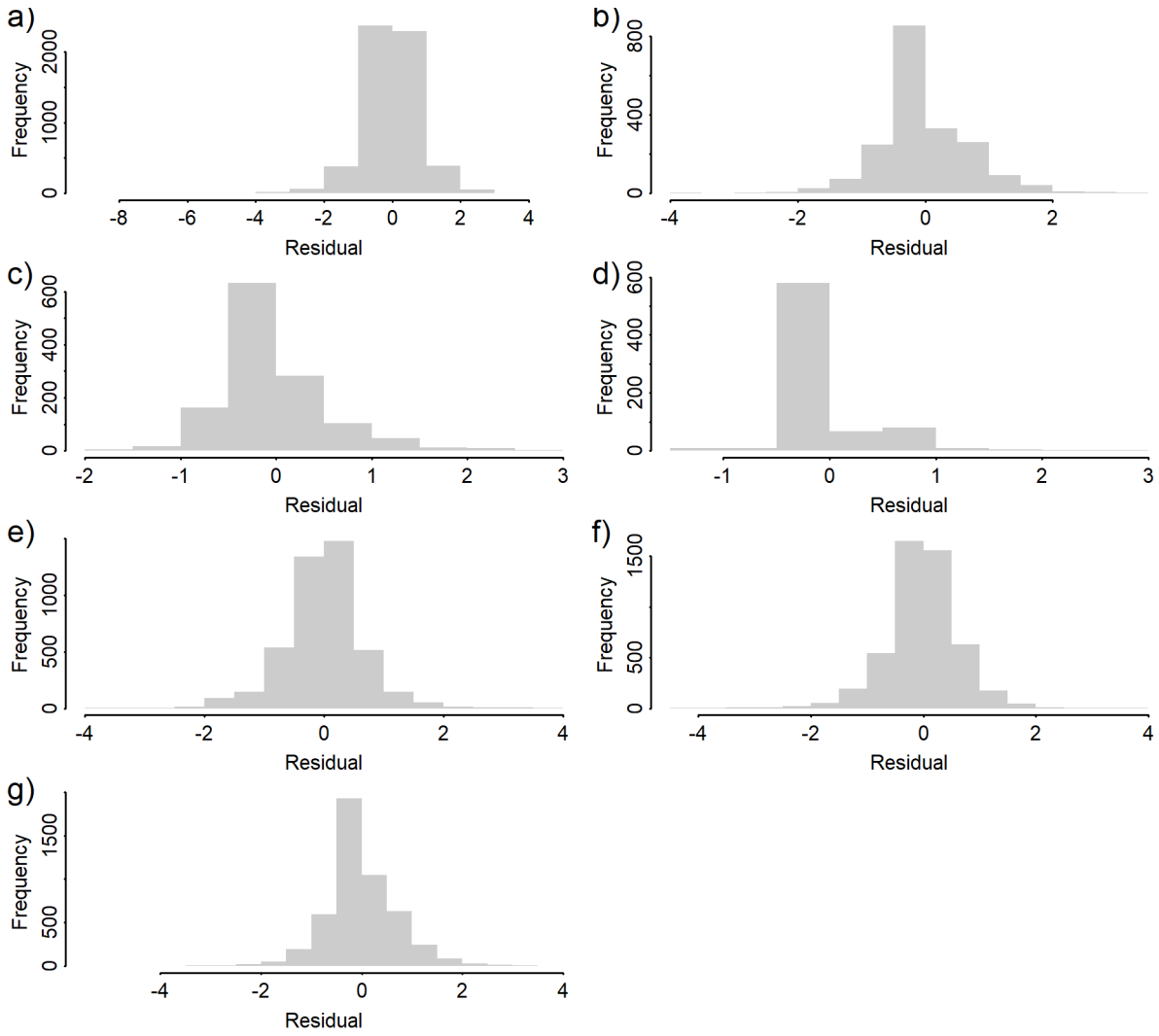

Figure S1. Frequency distributions of model residuals for the overall models of the effect of land use on different combinations of thermal strategy and mass bin: a) ectothermy, < 2 g; b) ectothermy, 2 – 20 g; c) ectothermy, 20 – 200 g; d) ectothermy, > 200 g; e) endothermy, 2 – 20 g; f) endothermy, 20 – 200 g; g) endothermy, > 200 g.

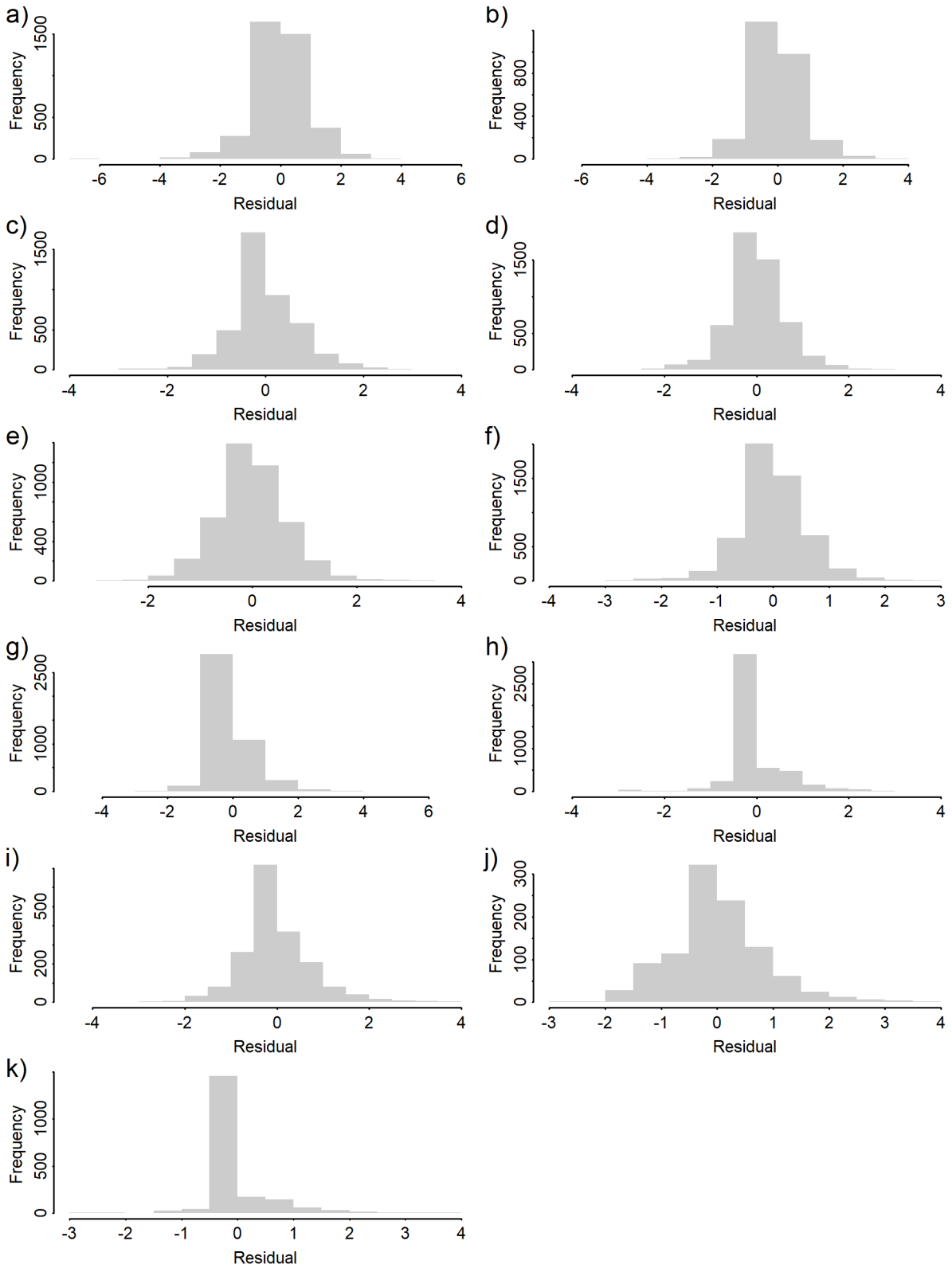

Figure S2. Frequency distributions of model residuals for the overall models of the effect of land use, on different combinations of mass bin and trophic level: a) < 2 g, herbivores; b) < 2 g, carnivores; c) 2 – 20 g, herbivores; d) 2 – 20 g, carnivores; e) 20 – 200 g, herbivores; f) 20 – 200 g, carnivores; g) > 200 g, herbivores; h) > 200 g, carnivores; i) < 2 g, detritivores; j) < 2 g, fungivores; k) 2 – 20 g, detritivores.

Table S1. Sources of body mass and trophic level data for each major taxonomic group considered in this study.

Taxonomic group	Body mass data sources	Trophic level data sources
Beetles	(Edgar 2014)	(Edgar 2014)
Ants	(Wheeler 1907; Forel 1914; Brown 1958; Bolton 1982; Kugler & Brown 1982; Galvis & Fernández 2009; McArthur 2010) http://academic.evergreen.edu/projects/ants/Genera.html http://www.antbase.net/ https://www.antweb.org/ http://ant.edb.miyakyo-u.ac.jp/	(Wheeler 1907; Forel 1914; Brown 1958; Bolton 1982; Kugler & Brown 1982; Galvis & Fernández 2009; McArthur 2010) http://academic.evergreen.edu/projects/ants/Genera.html http://www.antbase.net/ https://www.antweb.org/ http://ant.edb.miyakyo-u.ac.jp/
Arachnids	(Bösenberg 1903; Pickard-Cambridge 1905; Jacot 1922, 1929, 1935, 1937; Chamberlin & Ivie 1942; Balogh 1943; Hammer 1952; van der Hammen & Strenzke 1953; Leech 1972; Hubert 1979; Dondale & Redner 1982; Balogh & Mahunka 1983; Roberts 1985, 1995; Platnick & Dondale 1992; Pérez-Iñigo 1993, 1997; Barrion & Litsinger 1995; Yin *et al.* 1997; Murphy & Murphy 2000; Quiroga *et al.* 2000, 2004; Niedbała & Górnośląskie 2002; Ramírez 2003; Bayartogtokh 2003; Dondale *et al.* 2003; Almquist 2005; Menin *et al.* 2005; Lourenço *et al.* 2006; Fernandez & Cleva 2010; Decae 2010; Ortega *et al.* 2013)	*(Preston-Mafham & Preston-Mafham 1984; Gopi Sundar 1998; McGavin 2000; Lensing & Wise 2004; Pekár & Jarab 2011)*
Other arthropods	*(Platnick 1983; Kramer 1983; Preston-Mafham & Preston-Mafham 1984; Newton & Franz 1998; Larivière 1999; McGavin 2000; Michener 2000; Garcia-Paris et al. 2001; Horváth 2003; Brescovit et al. 2008; Polilov 2008; Ślipiński et al. 2009; Pekár & Jarab 2011; Ott 2012; Ott et al. 2012; Schuh 2012; Lohaj et al. 2012; Cai & Wang 2013; Morón et al. 2014; Koli et al. 2014)* http://delta-intkey.com/britin/	*(White 1983; Huber et al. 1989; Wilson et al. 1994; Lavy & Verhoef 1996; Davidson & Broady 1996; Chen & Wise 1997; Burton 1998; Newton & Franz 1998; Wegener 1998; Pimenta & Martins 1999; McGavin 2000; Vilela & Bächli 2000; Barker 2002; Holzinger et al. 2002; McCutcheon 2002; Horváth 2003; Tillman & Mullinix 2003; Yamashita & Hijii 2003; Haddad et al. 2004; Hawkeswood & Turner 2004; Jueg 2004; Peredo 2004; Coupland & Barker 2004; Arévalo & Frank 2005; Saito et al. 2005; Will et al. 2005; Cakmak et al. 2007; Oliveira et al. 2007; Wheeler 2007; Chen et al. 2007; Phillips et al. 2008; Wade et al. 2008; Carstens et al. 2008; Gottschalk et al. 2009; Miss & Reyes-Novelo 2009; Dias et al. 2010; Nakamori & Suzuki 2010; Capinera 2010; Urban et al. 2010; Eitzinger & Traugott 2011; Frank & Ahn 2011; Panizzi & Parra 2012; Robertson et al. 2013; Troukens 2013; de Souza et al. 2014; Knapp & Uhnavá 2014; Koli et al. 2014; Pan et al. 2014; Yavorskaya et al. 2014; Douglas et al. 2015; Fowler et al. 2015; Goldman-Huertas et al. 2015; Keszthelyi 2015; Lake et al. 2015; Mann et al. 2015; Straw et al. 2015; Wilson-Rankin 2015)* http://delta-intkey.com/britin/

Reptiles	(Myhrvold *et al.* 2015)	(Galina-Tessaro *et al.* 1997; da Costa Prudente *et al.* 1998; Camper & Dixon 2000; Sasa & Monrós 2000; Ortiz *et al.* 2001; Cooper Jr. & Vitt 2002; Halliday & Adler 2002; Lemos-Espinal *et al.* 2003; Tocher 2003; Hartmann & Marques 2005; Herczeg *et al.* 2007; Leite *et al.* 2007; Mehta & Burghardt 2008; Pizzatto *et al.* 2009; Leyte-Manrique & Ramírez-Bautista 2010; McCoy *et al.* 2010; Manicom & Schwarzkopf 2011; Henderson & Pauers 2012; Norval *et al.* 2012; Villegas-Guzmán *et al.* 2012; Garda *et al.* 2012; Goiran *et al.* 2013; da Rocha-Santos *et al.* 2014; Garcia *et al.* 2014)
Amphibians	(Zug & Zug 1979; Zimmermann 1983; Lynch 1989; Matson 1990; Lance & Wells 1993; McCranie & Wilson 1993; Heyer 1994; Heyer *et al.* 1996; Caramaschi & da Cruz 1997; Campbell & Clarke 1998; Anderson & Mathis 1999; Bennett *et al.* 1999; de Almeida Prado *et al.* 2000; Heyer & Heyer 2002; Jungfer & Hödl 2002; Savage & Myers 2002; Ao *et al.* 2003; de Almeida Prado 2003; Bain & Quang Truong 2004; Shepard & Caldwell 2005; Su *et al.* 2005; Brasileiro *et al.* 2005; Guayasamin *et al.* 2006; Stuart *et al.* 2006; Wollenberg *et al.* 2006; Fouquet *et al.* 2007; Ningombam & Bordoloi 2007; Cooper *et al.* 2008; Goldberg & Bursey 2008; González & Hamann 2008; Arroyo *et al.* 2008; da Silva *et al.* 2009; Sunyer *et al.* 2009; Bernarde & Kokubum 2009; Blomquist & Hunter Jr. 2009; de Carvalho *et al.* 2010; Kan 2010; Shahriza *et al.* 2010; Simões 2010; Jared *et al.* 2011; Ohler *et al.* 2011; Pombal Jr. *et al.* 2011; Hertz *et al.* 2012; Ibáñez *et al.* 2012; Barrio-Amorós *et al.* 2012) http://amphibia.my/ http://amphibiaweb.org/	*(Toft 1995; Vences et al. 1999; Laufer 2004; Maneyro & da Rosa 2004; Biavati et al. 2004; Gaborieau & Measey 2004; Teixeira et al. 2006; Muñoz-Guerrero et al. 2007; Woodhead et al. 2007; Cuevas & Martori 2007; Mendoza-Estrada et al. 2008; Milanovich et al. 2008; De-Carvalho et al. 2008; Ortega et al. 2009; Valderrama-Vernaza et al. 2009; Cadenas et al. 2009; Lima et al. 2010; Huntsman et al. 2011; Rodríguez et al. 2011; Forti et al. 2011; García-R et al. 2012; Olson et al. 2012; Ruibal & Laufer 2012; Sugai et al. 2012; Fabricante & Nuñeza 2012; Antoniazzi et al. 2013; Arce Domínguez & Rengifo Mosquera 2013; Gómez-Fernández et al. 2013; Hantak et al. 2013; Rebouças et al. 2013; Moreno-Barbosa & Hoyos-Hoyos 2014; Garcia-R et al. 2015)*
Mammals	(Jones *et al.* 2009)	(Jones *et al.* 2009)
Birds	(Cramp *et al.* 1978; Mayr 1978; Goodwin & Woodcock 1982; Brown *et al.* 1982; Ali & Ripley 1983; Coates 1985; Collar & Stuart 1985; Schodde & Tidemann 1986; Pratt *et al.* 1987; Ehrlich *et al.* 1988; Serle *et al.* 1988; Ridgely & Gwynne 1989; Ridgely & Tudor 1989; Stiles *et al.* 1989; Turner & Rose 1989; Fjeldså & Krabbe 1990; Langrand *et al.* 1990; Marchant *et al.* 1991; del Hoyo *et al.* 1992; Dunning 1993; MacKinnon & Phillips 1993; Clement *et al.* 1993; Madge & Burn 1994; Harrap & Quinn 1995; Howell & Webb 1995; Pacheco & Gonzaga 1995; Byers *et al.* 1995; Lambert & Woodcock 1996; Liversidge	(del Hoyo *et al.* 1992)

	1996; Pacheco *et al.* 1996; Castro & Phillips 1996; Zimmermann *et al.* 1996; Coates *et al.* 1997; Baker 1997; Fitzpatrick & Stotz 1997; Heather *et al.* 1997; Krabbe & Schulenberg 1997; Lefranc & Worfolk 1997; Rowley *et al.* 1997; Frith & Beehler 1998; Grimmett *et al.* 1998; Raffaele *et al.* 1998; Sinclair & Langrand 1998; Whitney & Alonso 1998; Doughty *et al.* 1999; Feare & Craig 1999; Isler & Isler 1999; Jaramillo & Burke 1999; Krabbe *et al.* 1999; Ryan & Bloomer 1999; Coopmans & Krabbe 2000; Kennedy *et al.* 2000; MacKinnon *et al.* 2000; Rasmussen *et al.* 2000; Robson 2000; Whitney *et al.* 2000; Zimmer & Whittaker 2000; Clement & Hathaway 2000; Alonso & Whitney 2001; Brewer & MacKay 2001; Johnson & Jones 2001; Shirihai *et al.* 2001; Skerrett *et al.* 2001; Zimmer *et al.* 2001; Cheke *et al.* 2001; Olsen *et al.* 2002; Stevenson & Fanshawe 2002; Hilty *et al.* 2003)	

Table S2. Distribution of sampled species among body-size classes (M1 = < 2 g; M2 = 2 – 20 g; M3 = 20 – 200 g; M4 = > 200 g) and adult trophic levels. Species are divided into Phyla, and then sub-divided into Classes (italic text).

Group	**Size class**				**Adult trophic level**				
	M1	**M2**	**M3**	**M4**	**Herbivore**	**Omnivore**	**Carnivore**	**Detritivore**	**Fungivore**
All	12497	2295	2511	1042	8738	1216	7072	1132	523
Vertebrates	190	2084	2502	1042	1508	390	3581	19	0
Amphibians	136	147	78	6	0	0	359	0	0
Reptiles	54	141	76	79	0	7	155	0	0
Mammals	0	176	180	225	168	208	183	0	0
Birds	0	1620	2168	732	1340	175	2884	19	0
Arthropods	12307	211	9	0	7209	812	3491	1096	523
Insects	10545	199	2	0	7020	680	1920	1071	522
Arachnids	1699	4	4	0	182	41	1546	0	1
Chilopods	19	0	3	0	0	0	25	0	0
Diplopods	5	8	0	0	0	13	0	0	0
Entognaths	39	0	0	0	7	78	0	25	0
Molluscs	0	0	0	0	21	14	0	0	0
Annelids	0	0	0	0	0	0	0	17	0

Table S3. The fit of models based on different land-use classification schemes for different trophic levels. Shown are AIC values, and the difference in AIC values between the model in question and the best-fitting model (ΔAIC). The best fitting model is indicated by bold and italic text. Possible land-use levels were: primary vegetation (Pr); secondary vegetation (Se), which could be divided into mature secondary vegetation (SeM) and young secondary vegetation (SeY); plantation forest (Pl), which could be divided into minimal (PlM) or intensive (PlI) use, agriculture (Ag), which could also be divided into minimal (AgM) or intensive (AgI) use; and finally plantation forest and agriculture combined into a single human-used category (Hu).

	Carnivore		**Omnivore**		**Herbivore**		**Fungivore**		**Detritivore**	
Land-use classification	**AIC**	**ΔAIC**	**AIC**	**ΔAIC**	**AIC**	**ΔAIC**	**AIC**	**ΔAIC**	**AIC**	**ΔAIC**
Coarse (Pr, Se, Hu)	13915	16	13151	63	21943	81	2984	38	7115	42
Dividing human (Pr, Se, Pl, Ag)	13909	10	13096	8	21923	62	2976	29	7088	15
Dividing secondary (Pr, SeM, SeY, Hu)	13913	14	13158	70	21944	82	2974	27	7112	39
Dividing secondary and human (Pr, SeM, SeY, Pl, Ag)	13903	4	13105	17	21925	63	2967	20	7084	11
Agricultural intensity (Pr, Se, PlM, PlI, AgM, AgI)	13899	0	***13088***	***0***	***21862***	***0***	2954	7	7075	2
Dividing secondary and agricultural intensity (Pr, SeM, SeY, PlM, PlI, AgM, AgI)	***13899***	***0***	13100	12	21872	10	***2947***	***0***	***7073***	***0***

Table S4. The fit of models based on different land-use classification schemes for different combinations of body-mass bin (< 2 g = M1; 2 - 20 g = M2; 20 - 200 g = M3; and > 200 g = M4) and thermal strategy (Ectotherms = Ect.; and Endotherms = End.). Shown are AIC values, and the difference in AIC values between the model in question and the best-fitting model (ΔAIC). The best fitting model is indicated by bold and italic text. Possible land-use levels were: primary vegetation (Pr); secondary vegetation (Se), which could be divided into mature secondary vegetation (SeM) and young secondary vegetation (SeY); plantation forest (Pl), which could be divided into minimal (PlM) or intensive (PlI) use, agriculture (Ag), which could also be divided into minimal (AgM) or intensive (AgI) use; and finally plantation forest and agriculture combined into a single human-used category (Hu).

	Ect. M1		**Ect. M2**		**Ect. M3**		**Ect. M4**		**End. M2**		**End. M3**		**End. M4**	
Land-use classification	**AIC**	**ΔAIC**	**AIC**	**ΔAIC**	**AIC**	**ΔAIC**	**AIC**	**ΔAIC**	**AIC**	**ΔAIC**	**AIC**	**ΔAIC**	**AIC**	**ΔAIC**
Coarse (Pr, Se, Hu)	13958	28	4745	46	***2252***	***0***	969	6	5975	22	7483	17	7641	2
Dividing human (Pr, Se, Pl, Ag)	13951	21	4711	12	2256	4	976	13	***5954***	***0***	***7465***	***0***	***7638***	***0***
Dividing secondary (Pr, SeM, SeY, Hu)	13963	33	4750	51	2254	2	***963***	***0***	5982	29	7497	31	7649	11
Dividing secondary and human (Pr, SeM, SeY, Pl, Ag)	13957	27	4716	17	2262	10	973	10	5962	8	7481	15	7649	10
Agricultural intensity (Pr, Se, PlM, PlI, AgM, AgI)	***13930***	***0***	***4699***	***0***	2264	12	990	27	5971	17	7479	13	7662	24
Dividing secondary and agricultural intensity (Pr, SeM, SeY, PlM, PlI, AgM, AgI)	13940	10	4710	11	2275	23	1002	39	5983	29	7496	30	7675	36

Biodiversity data sources

Data on the species composition of ecological assemblages were taken from 324 publications (Roth *et al.* 1994; Owiunji & Plumptre 1998; Vasconcelos 1999; Vasconcelos *et al.* 2000, 2009; Liow *et al.* 2001; Aumann 2001; Floren *et al.* 2001; Summerville & Crist 2002; Vallan 2002; Vázquez & Simberloff 2002; Bonham *et al.* 2002; Woinarski & Ash 2002; Zaitsev *et al.* 2002, 2006; Ishitani *et al.* 2003; Nakamura *et al.* 2003; Gu *et al.* 2004; Gutierrez-Lamus 2004; Helden & Leather 2004; Hylander *et al.* 2004; Koivula *et al.* 2004; Maeto & Sato 2004; Naidoo 2004; Alcala *et al.* 2004; Pineda & Halffter 2004; Quaranta *et al.* 2004; Shochat *et al.* 2004; Vergara & Simonetti 2004; Weller & Ganzhorn 2004; Clark *et al.* 2004; Cleary *et al.* 2004; Darvill *et al.* 2004; Gove *et al.* 2005; Báldi *et al.* 2005; Hanley 2005, 2011; Hoffmann & Zeller 2005; Barratt *et al.* 2005, 2012; Marsh 2005; Moir *et al.* 2005; Oertli *et al.* 2005; Pons & Wendenburg 2005; Richardson *et al.* 2005; Schilthuizen *et al.* 2005; Shuler *et al.* 2005; Blanche & Cunningham 2005; Tylianakis *et al.* 2005; Vanbergen *et al.* 2005; Vu 2005, 2009; Cockle *et al.* 2005; Davis & Philips 2005; Arroyo *et al.* 2005; Fermon *et al.* 2005; Lachat *et al.* 2006; Marshall *et al.* 2006; McFrederick & LeBuhn 2006; Nakagawa *et al.* 2006; Baur *et al.* 2006; Benedick *et al.* 2006; Peres & Nascimento 2006; Scott *et al.* 2006; Soh *et al.* 2006; Summerville *et al.* 2006; Urbina-Cardona *et al.* 2006; Blanche *et al.* 2006; Urbina-Cardona *et al.* 2008; Wunderle *et al.* 2006; Borges *et al.* 2006; Armbrecht *et al.* 2006; Diekötter *et al.* 2006; Gottschalk *et al.* 2007; Hatfield & LeBuhn 2007; Banks *et al.* 2007; Barlow *et al.* 2007a, b; Kutt & Woinarski 2007; Barlow *et al.* 2007c; MacSwiney *et al.* 2007; Meyer *et al.* 2007, 2009, Noriega *et al.* 2007, 2012; O'Dea & Whittaker 2007; Parra-H & Nates-Parra 2007; Reis & Cancello 2007; Shahabuddin & Kumar 2007; Smith-Pardo & Gonzalez 2007; Verdú *et al.* 2007; Wells *et al.* 2007; Willig *et al.* 2007; Winfree *et al.* 2007; Woodcock *et al.* 2007; Borges 2007; Bouyer *et al.* 2007; Castro-Luna *et al.* 2007; Chapman & Reich 2007; Chauvat *et al.* 2007; Elek & Lovei 2007; Ewers *et al.* 2007; García-R *et al.* 2007; Gardner *et al.* 2007, 2008; Aben *et al.* 2008; Gaublomme *et al.* 2008; Gomes *et al.* 2008; Goulson *et al.* 2008, 2010; Johnson *et al.* 2008; Kapoor 2008; Kohler *et al.* 2008; Lantschner *et al.* 2008, 2012; Littlewood 2008; Lo-Man-Hung *et al.* 2008, 2011; Luja *et al.* 2008; Macip-Ríos & Muñoz-Alonso 2008; Munyekenye *et al.* 2008; Basset *et al.* 2008; Navarrete & Halffter 2008; Ngai *et al.* 2008; O'Farrell *et al.* 2008; Özden *et al.* 2008; Paritsis & Aizen 2008; Presley *et al.* 2008; Sakchoowong *et al.* 2008; Schon *et al.* 2008; Billeter *et al.* 2008; Schon *et al.* 2010; Sedlock *et al.* 2008; Sridhar *et al.* 2008; Buddle & Shorthouse 2008; Cagle 2008; de Souza *et al.* 2008; Dolia *et al.* 2008; Eigenbrod *et al.* 2008; Farwig *et al.* 2008; Franzén & Nilsson 2008; Azpiroz & Blake 2009; Hawes *et al.* 2009; Horgan 2009; Julier & Roulston 2009; Kessler *et al.* 2009; Lehouck *et al.* 2009; McShea *et al.* 2009; Nicolas *et al.* 2009; Noreika 2009; Nyeko 2009; Parry *et al.* 2009; Peters *et al.* 2009, 2011; Bernard *et al.* 2009; Römbke *et al.* 2009; Ström *et al.* 2009; Suarez-Rubio & Thomlinson 2009; Sugiura *et al.* 2009; Turner & Foster 2009; Vergara & Badano 2009; Williams *et al.* 2009; Woinarski *et al.* 2009; Boutin *et al.* 2009; Carrijo *et al.* 2009; Craig *et al.* 2009, 2012, 2014; Delabie *et al.* 2009; Dumont *et al.* 2009; Fukuda *et al.* 2009; Furlani *et al.* 2009; Jacobs *et al.* 2010; Kone *et al.* 2010; Krauss *et al.* 2010; Magura *et al.* 2010; Malone *et al.* 2010; McCarthy *et al.* 2010; Milder *et al.* 2010; Miranda *et al.* 2010; Proenca *et al.* 2010; Quintero *et al.* 2010; Rey-Benayas *et al.* 2010; Bicknell & Peres 2010; Saldana-Vazquez *et al.* 2010; Sheldon *et al.* 2010; Silva *et al.* 2010; Sosa *et al.* 2010; Bóçon 2010; Buczkowski 2010; Cáceres *et al.* 2010; de Thoisy *et al.* 2010; Dominguez-Haydar & Armbrecht 2010; Dures & Cumming 2010; Endo *et al.* 2010; Enseñanza 2010; Fayle *et al.* 2010; Gaigher & Samways 2010; Granjon & Duplantier 2011; Isaacs-Cubides & Urbina-Cardona 2011; Jolli & Pandit 2011; Jung & Powell 2011; Latta *et al.* 2011; Légaré *et al.* 2011; Mallari *et al.* 2011; Meijer *et al.* 2011; Moreno-Mateos *et al.* 2011; Navarro *et al.*

2011; Neuschulz *et al.* 2011; Bates *et al.* 2011; Nielsen *et al.* 2011; Paradis & Work 2011; Phalan *et al.* 2011; Berg *et al.* 2011; Power & Stout 2011; Rubio & Simonetti 2011; Safian *et al.* 2011; Samnegård *et al.* 2011; Savage *et al.* 2011; Schüepp *et al.* 2011, 2012; Shafie *et al.* 2011; Blake *et al.* 2011; Slade *et al.* 2011; Stouffer *et al.* 2011; Su *et al.* 2011; Summerville 2011; Tonietto *et al.* 2011; Virgilio *et al.* 2011; Vu & Vu 2011; Yoshikura *et al.* 2011; Zimmerman *et al.* 2011; Andersen & Hoffmann 2011; Cameron *et al.* 2011; Cerezo *et al.* 2011; Arbeláez-Cortés *et al.* 2011; Connop *et al.* 2011; D'Aniello *et al.* 2011; D'Cruze & Kumar 2011; da Silva 2011; Dawson *et al.* 2011; Edenius *et al.* 2011; Filgueiras *et al.* 2011; Freire & Motta 2011; Ge *et al.* 2012; Gheler-Costa *et al.* 2012; Hilje & Aide 2012; Ims & Henden 2012; Jonsell 2012; Kati *et al.* 2012; Kittle *et al.* 2012; Kőrösi *et al.* 2012; Kutt *et al.* 2012; Lentini *et al.* 2012; Littlewood *et al.* 2012; Liu *et al.* 2012; Malonza & Veith 2012; Martin *et al.* 2012; Muchane *et al.* 2012; Mudri-Stojnic *et al.* 2012; Naithani & Bhatt 2012; Naoe *et al.* 2012; Noreika & Kotze 2012; Norfolk *et al.* 2012; Numa *et al.* 2012; Osgathorpe *et al.* 2012; Pelegrin & Bucher 2012; Pethiyagoda Rohan S. & Manamendra-Arachchi 2012; Politi *et al.* 2012; Poveda *et al.* 2012; Reid *et al.* 2012; Rey-Velasco & Miranda-Esquivel 2012; Ribeiro & Freitas 2012; Santana *et al.* 2012; Sung *et al.* 2012; Threlfall *et al.* 2012; Verboven *et al.* 2012; Verdasca *et al.* 2012; Wiafe & Amfo-Otu 2012; Yamaura *et al.* 2012; Buczkowski & Richmond 2012; Cabra-García *et al.* 2012; Carpenter *et al.* 2012; de Sassi *et al.* 2012; Fierro *et al.* 2012; Adum *et al.* 2013; Garmendia *et al.* 2013; Gould *et al.* 2013; Grass *et al.* 2013; Jalilova *et al.* 2013; Kazerani *et al.* 2013; Li *et al.* 2013; Litchwark 2013; Bartolommei *et al.* 2013; Mico *et al.* 2013; Nakashima *et al.* 2013; Ndang'ang'a *et al.* 2013; Ofori-Boateng *et al.* 2013; Oliveira *et al.* 2013; Otavo *et al.* 2013; Peri *et al.* 2013; Reynolds & Symes 2013; Rodrigues *et al.* 2013; Rousseau *et al.* 2013; Alcayaga *et al.* 2013; Waite *et al.* 2013; Brandt *et al.* 2013; Cunningham *et al.* 2013; Faruk *et al.* 2013; Fernandez & Simonetti 2013; Azhar *et al.* 2013; Frizzo & Vasconcelos 2013; García *et al.* 2013; Gray *et al.* 2014; Kurz *et al.* 2014; Malumbres-Olarte *et al.* 2014; Rader *et al.* 2014; Raub *et al.* 2014; Sam *et al.* 2014; Walker *et al.* 2014; Wronski *et al.* 2014; Bösing *et al.* 2014; Craig 2014; Fowler 2014).

Data References

Aben, J., Dorenbosch, M., Herzog, S.K., Smolders, A.J.P. & Van Der Velde, G. (2008). Human disturbance affects a deciduous forest bird community in the Andean foothills of central Bolivia. *Bird Conserv. Int.*, 18, 363–380

Adum, G.B., Eichhorn, M.P., Oduro, W., Ofori-Boateng, C. & Rodel, M.O. (2013). Two-stage recovery of amphibian assemblages following selective logging of tropical forests. *Conserv. Biol.*, 27, 354–363

Alcala, E.L., Alcala, a. C. & Dolino, C.N. (2004). Amphibians and reptiles in tropical rainforest fragments on Negros Island, the Philippines. *Environ. Conserv.*, 31, 254–261

Alcayaga, O.E., Pizarro-Araya, J., Alfaro, F.M. & Cepeda-Pizarro, J. (2013). Spiders (Arachnida, Araneae) associated to agroecosystems in the Elqui Valley (Coquimbo Region, Chile). *Rev. Colomb. Entomol.*, 39, 150–154

Ali, S. & Ripley, S.D. (1983). *Handbook of the Birds of India and Pakistan*. Oxford University Press, Oxford

de Almeida Prado, C.P. (2003). *Estratégias reprodutivas em uma comunidade de anuros no pantanal, estado de Mato Grosso do Sul, Brasil.* PhD Thesis, Universidade Estadual Paulista

de Almeida Prado, C.P., Uetanabaro, M. & Lopes, F.S. (2000). Reproductive strategies of *Leptodactylus chaquensis* and *L. podicipinus* in the Pantanal, Brazil. *J. Herpetol.*, 34, 135–139

Almquist, S. (2005). *Swedish Araneae, Part 1: Families Atypidae to Hahniidae (Linyphiidae*

excluded). Entomological Society of Lund, Lund, Sweden
Alonso, J.A. & Whitney, B.M. (2001). A new *Zimmerius* tyrannulet (Aves: Tyrannidae) from white sand forests of northern Amazonian Peru. *Wilson Bull.*, 113, 1–9
Andersen, A.N. & Hoffmann, B.D. (2011). Conservation value of low fire frequency in tropical savannas: ants in monsoonal northern Australia. *Austral Ecol.*, 36, 497–503
Anderson, M.T. & Mathis, A. (1999). Diets of two sympatric Neotropical salamanders, *Bolitoglossa mexicana* and *B. rufescens*, with notes on reproduction for *B. rufescens*. *J. Herpetol.*, 33, 601–607
Antoniazzi, C.E., López, J.A., Duré, M. & Falico, D.A. (2013). Alimentación de dos especies de anfibios (Anura: Hylidae) en la estación de bajas temperaturas y su relación con la acumulación de energía en Santa Fe, Argentina. *Rev. Biol. Trop.*, 61, 875–886
Ao, J.M., Bordoloi, S. & Ohler, A. (2003). Amphibian fauna of Nagaland with nineteen new records from the state including five new records for India. *Zoos' Print J.*, 18, 1117–1125
Arbeláez-Cortés, E., Rodríguez-Correa, H.A. & Restrepo-Chica, M. (2011). Mixed bird flocks: patterns of activity and species composition in a region of the Central Andes of Colombia. *Rev. Mex. Biodivers.*, 82, 639–651
Arce Domínguez, F. & Rengifo Mosquera, J.T. (2013). Dieta de Phyllobates aurotaenia y Oophaga histrionica (Anura: Dendrobatidae) en el municipio del Alto Baudó, Chocó, Colombia. *Acta Zoológica Mex.*, 29, 255–268
Arévalo, H.A. & Frank, J.H. (2005). Nectar sources for *Larra bicolor* (Hymenoptera: Sphecidae), a parasitoid of *Scapteriscus* mole crickets (Orthoptera: Gryllotalpidae), in Northern Florida. *Florida Entomol.*, 88, 146–151
Armbrecht, I., Perfecto, I. & Silverman, E. (2006). Limitation of nesting resources for ants in Colombian forests and coffee plantations. *Ecol. Entomol.*, 31, 403–410
Arroyo, J., Iturrondobeitia, J.C., Rad, C. & Gonzalez-Carcedo, S. (2005). Oribatid mite (Acari) community structure in steppic habitats of Burgos Province, central northern Spain. *J. Nat. Hist.*, 39, 3453–3470
Arroyo, S.B., Serrano-Cardozo, V.H. & Ramírez-Pinilla, M.P. (2008). Diet, microhabitat and time of activity in a *Pristimantis* (Anura, Strabomantidae) assemblage. *Phyllomedusa*, 7, 109–119
Aumann, T. (2001). The structure of raptor assemblages in riparian environments in the south-west of the Northern Territory, Australia. *Emu*, 101, 293–304
Azhar, B., Lindenmayer, D.B., Wood, J., Fischer, J., Manning, A., Mcelhinny, C., *et al.* (2013). The influence of agricultural system, stand structural complexity and landscape context on foraging birds in oil palm landscapes. *Ibis*, 155, 297-312
Azpiroz, A.B. & Blake, J.G. (2009). Avian assemblages in altered and natural grasslands in the northern Campos of Uruguay. *Condor*, 111, 21–35
Bain, R.H. & Quang Truong, N. (2004). Three new species of narrow-mouth frogs (Genus: *Microhyla* from Indochina, with comments on *Microhyla annamensis* and *Microhyla palmipes*. *Copeia*, 2004, 507–524
Baker, G. (1997). *Birds of the Spice Islands: Moluccan Megapode Conservation Project: an Expedition from the University of Sussex in Association with the Indonesian Department of Forestry (PHPA), November 1996-January 1997: Final Report*. School of Biological Sciences, University of Sussex, Brighton, United Kingdom
Báldi, A., Batáry, P. & Erdős, S. (2005). Effects of grazing intensity on bird assemblages and populations of Hungarian grasslands. *Agric. Ecosyst. Environ.*, 108, 251–263
Balogh, J. (1943). *Magyarország Páncélosatkái (Conspectus Oribateorum Hungariae)*. Matematekai Természtttudományi Közeményei, Budapest
Balogh, J. & Mahunka, S. (1983). *The Soil Mites of the World. Volume I: Primitive Oribatids of the Palearctic Region*. Akadḿiai Kiadó, Budapest

Banks, J.E., Sandvik, P. & Keesecker, L. (2007). Beetle (Coleoptera) and spider (Araneae) diversity in a mosaic of farmland, edge, and tropical forest habitats in western Costa Rica. *Pan-Pac. Entomol.*, 83, 152–160
Barker, G.M. (2002). *Molluscs as Crop Pests*. CABI Publishing, Wallingford
Barlow, J., Gardner, T.A., Araujo, I.S., Ávila-Pires, T.C., Bonaldo, A.B., Costa, J.E., *et al.* (2007a). Quantifying the biodiversity value of tropical primary, secondary, and plantation forests. *Proc. Natl. Acad. Sci. U. S. A.*, 104, 18555–18560
Barlow, J., Mestre, L.A.M., Gardner, T.A. & Peres, C.A. (2007b). The value of primary, secondary and plantation forests for Amazonian birds. *Biol. Conserv.*, 136, 212–231
Barlow, J., Overal, W.L., Araujo, I.S., Gardner, T.A. & Peres, C.A. (2007c). The value of primary, secondary and plantation forests for fruit-feeding butterflies in the Brazilian Amazon. *J. Appl. Ecol.*, 44, 1001–1012
Barratt, B.I.P., Ferguson, C.M., Logan, R.A.S., Barton, D., Bell, N.L., Sarathchandra, S.U., *et al.* (2005). Biodiversity of indigenous tussock grassland sites in Otago, Canterbury and the central North Island of New Zealand I. The macro-invertebrate fauna. *J. R. Soc. New Zeal.*, 35, 287–301
Barratt, B.I.P., Worner, S.P., Affeld, K., Ferguson, C.M., Barton, D.M., Bell, N.L., *et al.* (2012). Biodiversity of indigenous tussock grassland sites in Otago, Canterbury and the Central North Island of New Zealand VI. Coleoptera biodiversity, community structure, exotic species invasion, and the effect of disturbance by agricultural development. *J. R. Soc. New Zeal.*, 42, 217–239
Barrio-Amorós, C.L., Guayasamin, J.M. & Hedges, S.B. (2012). A new minute Andean *Pristimantis* (Anura: Strabomantidae) from Venezuela. *Phyllomedusa*, 11, 83–93
Barrion, A.T. & Litsinger, J.A. (1995). *Riceland Spiders of South and Southeast Asia*. CABI Publishing, Wallingford, United Kingdom
Bartolommei, P., Mortelliti, A., Pezzo, F. & Puglisi, L. (2013). Distribution of nocturnal birds (Strigiformes and Caprimulgidae) in relation to land-use types, extent and configuration in agricultural landscapes of Central Italy. *Rend. Lincei-Scienze Fis. E Nat.*, 24, 13–21
Basset, Y., Missa, O., Alonso, A., Miller, S.E., Curletti, G., De Meyer, M., *et al.* (2008). Changes in arthropod assemblages along a wide gradient of disturbance in Gabon. *Conserv. Biol.*, 22, 1552–63
Bates, A.J., Sadler, J.P., Fairbrass, A.J., Falk, S.J., Hale, J.D. & Matthews, T.J. (2011). Changing bee and hoverfly pollinator assemblages along an urban-rural gradient. *PLoS One*, 6, e23459
Baur, B., Cremene, C., Groza, G., Rakosy, L., Schileyko, A.A., Baur, A., *et al.* (2006). Effects of abandonment of subalpine hay meadows on plant and invertebrate diversity in Transylvania, Romania. *Biol. Conserv.*, 132, 261–273
Bayartogtokh, B. (2003). The soil mite family Eremaeidae (Acari: Oribatida) in Mongolia, with remarks on distribution and diversity of known genera. *J. Nat. Hist.*, 37, 1571–1610
Benedick, S., Hill, J.K., Mustaffa, N., Chey, V.K., Maryati, M., Searle, J.B., *et al.* (2006). Impacts of rain forest fragmentation on butterflies in northern Borneo: species richness, turnover and the value of small fragments. *J. Appl. Ecol.*, 43, 967–977
Bennett, W.O., Summers, A.P. & Brainerd, E.L. (1999). Confirmation of the passive exhalation hypothesis for a terrestrial caecilian, *Dermophis mexicanus*. *Copeia*
Berg, A., Ahrne, K., Ockinger, E., Svensson, R. & Soderstrom, B. (2011). Butterfly distribution and abundance is affected by variation in the Swedish forest-farmland landscape. *Biol. Conserv.*, 144, 2819–2831
Bernard, H., Fjeldsa, J. & Mohamed, M. (2009). A case study on the effects of disturbance and conversion of tropical lowland rain forest on the non-volant small mammals in north Borneo: management implications. *Mammal Study*, 34, 85–96

Bernarde, P.S. & Kokubum, M.N.D.C. (2009). Seasonality, age structure and reproduction of *Leptodactylus (Lithodytes) lineatus* (Anura, Leptodactylidae) in Rondônia state, southwestern Amazon, Brazil. *Iheringia Série Zool.*, 99, 368–372
Biavati, G.M., Wiederhecker, H.C. & Colli, G.R. (2004). Diet of *Epipedobates flavopictus* (Anura: Dendrobatidae) in a Neotropical savanna. *J. Herpetol.*, 38, 510–518
Bicknell, J. & Peres, C.A. (2010). Vertebrate population responses to reduced-impact logging in a neotropical forest. *For. Ecol. Manage.*, 259, 2267–2275
Billeter, R., Liira, J., Bailey, D., Bugter, R., Arens, P., Augenstein, I., *et al.* (2008). Indicators for biodiversity in agricultural landscapes: a pan-European study. *J. Appl. Ecol.*, 45, 141–150
Blake, R.J., Westbury, D.B., Woodcock, B.A., Sutton, P. & Potts, S.G. (2011). Enhancing habitat to help the plight of the bumblebee. *Pest Manag. Sci.*, 67, 377–379
Blanche, K.R., Ludwig, J.A. & Cunningham, S.A. (2006). Proximity to rainforest enhances pollination and fruit set in orchards. *J. Appl. Ecol.*, 43, 1182–1187
Blanche, R. & Cunningham, S.A. (2005). Rain forest provides pollinating beetles for atemoya crops. *J. Econ. Entomol.*, 98, 1193–1201
Blomquist, S.M. & Hunter Jr., M.L. (2009). A multi-scale assessment of habitat selection and movement patterns by northern leopard frogs (*Lithobates [Rana] pipiens*) in a managed forest. *Herpetol. Conserv. Biol.*, 4, 142–160
Bóçon, R. (2010). *Riqueza e abundância de aves em três estágios sucessionais da floresta ombrófila densa submontana, Antonina, Paraná*. PhD Thesis, Universidade Federal do Paraná
Bolton, B. (1982). Afrotropical species of the myrmicine ant genera *Cardiocondyla*, *Melissotarsus*, *Messor* and *Cataulacus* (Formicidae). In: *Bulletin of the British Museum (Natural History) Vol 45*. Henry Ling Ltd., Dorchester, United Kingdom, pp. 307–370
Bonham, K.J., Mesibov, R. & Bashford, R. (2002). Diversity and abundance of some ground-dwelling invertebrates in plantation vs. native forests in Tasmania, Australia. *For. Ecol. Manage.*, 158, 237–247
Borges, P.A. V, Lobo, J.M., de Azevedo, E.B., Gaspar, C.S., Melo, C. & Nunes, L. V. (2006). Invasibility and species richness of island endemic arthropods: a general model of endemic vs. exotic species. *J. Biogeogr.*, 33, 169–187
Borges, S.H. (2007). Bird assemblages in secondary forests developing after slash-and-burn agriculture in the Brazilian Amazon. *J. Trop. Ecol.*, 23, 469–477
Bösenberg, W. (1903). *Die Spinnen Deutschlands*. E. Nägele, Stuttgart
Bösing, B.M., Haarmeyer, D.H., Denger, J., Ganzhorn, J.U. & Schmiedel, U. (2014). Effects of livestock grazing and habitat characteristics on small mammal communities in the Knersvlakte, South Africa. *J. Arid Environ.*, 104, 124–131
Boutin, C., Martin, P.A. & Baril, A. (2009). Arthropod diversity as affected by agricultural management (organic and conventional farming), plant species, and landscape context. *Ecoscience*, 16, 492–501
Bouyer, J., Sana, Y., Samandoulgou, Y., Cesar, J., Guerrini, L., Kabore-Zoungrana, C., *et al.* (2007). Identification of ecological indicators for monitoring ecosystem health in the trans-boundary W Regional park: A pilot study. *Biol. Conserv.*, 138, 73–88
Brandt, J.S., Wood, E.M., Pidgeon, A.M., Han, L.-X., Fang, Z. & Radeloff, V.C. (2013). Sacred forests are keystone structures for forest bird conservation in southwest China's Himalayan Mountains. *Biol. Conserv.*, 166, 34–42
Brasileiro, C.A., Sawaya, R.J., Kiefer, M.C. & Martins, M. (2005). Amphibians of an open cerrado fragment in southeastern Brazil. *Biota Neotrop.*, 5, BN00405022005
Brescovit, A.D., Freitas, G.C.C. & Vasconcelos, S.D. (2008). Spiders from the island of Fernando de Noronha, Brazil. Part III: Gnaphosidae (Araneae: Arachnida). *Rev. Bras. Zool.*, 25, 328–332

Brewer, D. & MacKay, B.K. (2001). *Wrens, Dippers and Thrashers: a Guide to the Wrens, Dippers and Thrashers of the World*. Yale University Press, New Haven, Connecticut
Brown, L.H., Urban, E.K., Newman, K.B., Woodcock, M., Hayman, P., Fry, H., *et al.* (1982). *The Birds of Africa*. Academic Press, London
Brown, W.L. (1958). A review of the ants of New Zealand (Hymenoptera). *Acta Hymenioterologica*, 1, 1–50
Buczkowski, G. (2010). Extreme life history plasticity and the evolution of invasive characteristics in a native ant. *Biol. Invasions*, 12, 3343–3349
Buczkowski, G. & Richmond, D.S. (2012). The Effect of Urbanization on Ant Abundance and Diversity: A Temporal Examination of Factors Affecting Biodiversity. *PLoS One*, 7
Buddle, C.M. & Shorthouse, D.P. (2008). Effects of experimental harvesting on spider (Araneae) assemblages in boreal deciduous forests. *Can. Entomol.*, 140, 437–452
Burton, J.F. (1998). *Hilara maura* (L.)(Dip.: Empididae) feeding on *Nematopogon swammerdamella* (L.)(Lep.: Incurvariidae). *Entomol. Rec. J. Var.*, 110, 19
Byers, C., Olsson, U. & Curson, J. (1995). *Buntings and Sparrows: A Guide to the Buntings and North American Sparrows*. Pica Press, Sussex
Cabra-García, J., Bermúdez-Rivas, C., Osorio, A.M. & Chacón, P. (2012). Cross-taxon congruence of alpha and beta diversity among five leaf litter arthropod groups in Colombia. *Biodivers. Conserv.*, 21, 1493–1508
Cáceres, N.C., Nápoli, R.P., Casella, J. & Hannibal, W. (2010). Mammals in a fragmented savannah landscape in south-western Brazil. *J. Nat. Hist.*, 44, 491–512
Cadenas, D.A., Pérez-Sánchez, A.J., Villa, P.M. & De Ascenção, A.A. (2009). Abundancia relativa, uso del hábitat y dieta de *Bolitoglossa orestes* (Urodela: Plethodontidae) en una selva nublada Andina Venezolana. *Ecotrópicos*, 22, 99–109
Cagle, N.L. (2008). Snake species distributions and temperate grasslands: A case study from the American tallgrass prairie. *Biol. Conserv.*, 141, 744–755
Cai, C.Y. & Wang, B. (2013). The oldest silken fungus beetle from the Early Cretaceous of southern China (Coleoptera: Cryptophagidae: Atomariinae). *Alcheringa*, 37, 452–455
Cakmak, O., Bashan, M. & Bolu, H. (2007). The fatty acid compositions of predator *Piocoris luridus* (Heteroptera: Lygaeidae) and its host *Monosteria unicostata* (Heteroptera: Tingidae) reared on almond. *Insect Sci.*, 14, 461–466
Cameron, S.A., Lozier, J.D., Strange, J.P., Koch, J.B., Cordes, N., Solter, L.F., *et al.* (2011). Patterns of widespread decline in North American bumble bees. *Proc. Natl. Acad. Sci. U. S. A.*, 108, 662–667
Campbell, J.A. & Clarke, B.T. (1998). A review of frogs of the genus *Otophryne* (Microhylidae) with the description of a new species. *Herpetologica*, 54, 301–317
Camper, J.D. & Dixon, J.R. (2000). Food habits of three species of striped whipsnakes, *Masticophis* (Serpentes: Colubridae). *Texas J. Sci.*, 52, 83–92
Capinera, J.L. (2010). *Insects and Wildlife*. Wiley-Blackwell, Chichester
Caramaschi, U. & da Cruz, C.A.G. (1997). Redescription of *Chiasmocleis albopunctata* (Boettger) and description of a new species of *Chiasmocleis* (Anura: Microhylidae). *Herpetologica*, 53, 259–268
Carpenter, D., Hammond, P.M., Sherlock, E., Lidgett, A., Leigh, K. & Eggleton, P. (2012). Biodiversity of soil macrofauna in the New Forest: a benchmark study across a national park landscape. *Biodivers. Conserv.*, 21, 3385–3410
Carrijo, T.F., Brandao, D., de Oliveira, D.E., Costa, D.A. & Santos, T. (2009). Effects of pasture implantation on the termite (Isoptera) fauna in the Central Brazilian Savanna (Cerrado). *J. Insect Conserv.*, 13, 575–581
Carstens, J.D., Baxendale, F.P., Heng-Moss, T.M. & Wright, R.J. (2008). Predation of the chinch bug, *Blissus occiduus* Barber (Hemiptera: Blissidae) by *Geocoris uliginosus* (Say)

(Hemiptera: Lygaeidae). *J. Kansas Entomol. Soc.*, 81, 328–338
de Carvalho, T.R., Giaretta, A.A. & Facure, K.G. (2010). A new species of *Hypsiboas* Wagler (Anura: Hylidae) closely related to *H. multifasciatus* Günther from southeastern Brazil. *Zootaxa*, 2521, 37–52
Castro-Luna, A.A., Sosa, V.J. & Castillo-Campos, G. (2007). Bat diversity and abundance associated with the degree of secondary succession in a tropical forest mosaic in south-eastern Mexico. *Anim. Conserv.*, 10, 219–228
Castro, I. & Phillips, A. (1996). *A Guide to the Birds of the Galápagos Islands*. A & C Black, London
Cerezo, A., Conde, M.C. & Poggio, S.L. (2011). Pasture area and landscape heterogeneity are key determinants of bird diversity in intensively managed farmland. *Biodivers. Conserv.*, 20, 2649–2667
Chamberlin, R. V & Ivie, W. (1942). A hundred new species of American spiders. *Bull. Univ. Utah*, 32, 13
Chapman, K.A. & Reich, P.B. (2007). Land use and habitat gradients determine bird community diversity and abundance in suburban, rural and reserve landscapes of Minnesota, USA. *Biol. Conserv.*, 135, 527–541
Chauvat, M., Wolters, V. & Dauber, J. (2007). Response of collembolan communities to land-use change and grassland succession. *Ecography*, 30, 183–192
Cheke, R.A., Mann, C.F. & Allen, R. (2001). *Sunbirds: A Guide to the Sunbirds, Flowerpeckers, Spiderhunters and Sugarbirds of the World*. Christopher Helm, London
Chen, B. & Wise, D.H. (1997). Responses of forest-floor fungivores to experimental food enhancement. *Pedobiologia (Jena).*, 41, 316–326
Chen, X., Yang, L. & Tsai, J.H. (2007). Revision of the bamboo delphacid genus *Belocera* (Hemiptera: Fulgoroidea: Delphacidae). *Florida Entomol.*, 90, 674–682
Clark, R.J., Gerard, P.J. & Mellsop, J.M. (2004). Spider biodiversity and density following cultivation in pastures in the Waikato, New Zealand. *New Zeal. J. Agric. Res.*, 47, 247–259
Cleary, D.F.R., Mooers, A.O., Eichhorn, K.A.O., van Tol, J., de Jong, R. & Menken, S.B.J. (2004). Diversity and community composition of butterflies and odonates in an ENSO-induced fire affected habitat mosaic: a case study from East Kalimantan, Indonesia. *Oikos*, 105, 426–446
Clement, P., Harris, A. & Davis, J. (1993). *Finches & Sparrows*. Christopher Helm, London
Clement, P. & Hathaway, R. (2000). *Thrushes*. Christopher Helm, London
Coates, B.J. (1985). *The Birds of Papua New Guinea, including the Bismarck Archipelago and Bougainville*. Dove, Brisbane
Coates, B.J., Bishop, K.D. & Gardner, D. (1997). *A Guide to the Birds of Wallacea, Sulawesi, The Moluccas and Lesser Sunda Islands, Indonesia*. Dove, Brisbane
Cockle, K.L., Leonard, M.L. & Bodrati, A.A. (2005). Presence and abundance of birds in an Atlantic forest reserve and adjacent plantation of shade-grown yerba mate, in Paraguay. *Biodivers. Conserv.*, 14, 3265–3288
Collar, N.J. & Stuart, S.N. (1985). *Threatened Birds of Africa and Related Islands: The ICBP/IUCN Red Data Book*. International Council for Bird Preservation, and International Union for Conservation of Nature and Natural Resources, Cambridge, United Kingdom
Connop, S., Hill, T., Steer, J. & Shaw, P. (2011). Microsatellite analysis reveals the spatial dynamics of Bombus humilis and Bombus sylvarum. *Insect Conserv. Divers.*, 4, 212–221
Cooper, N., Bielby, J., Thomas, G.H. & Purvis, A. (2008). Macroecology and extinction risk correlates of frogs. *Glob. Ecol. Biogeogr.*, 17, 211–221
Cooper Jr., W.E. & Vitt, L.J. (2002). Distribution, extent, and evolution of plant consumption by lizards. *J. Zool.*, 257, 487–517
Coopmans, P. & Krabbe, N. (2000). A new species of flycatcher (Tyrannidae: Myiopagis)

from Eastern Ecuador and Eastern Peru. *Wilson Bull.*, 112, 305–312
da Costa Prudente, A.L., de Moura-Leite, J.C. & Morato, S.A.A. (1998). Alimentação das espécies de Siphlophis Fitzinger (Serpentes, Colubridae, Xenodontinae, Pseudobioni). *Rev. Bras. Zool.*, 15, 375–383
Coupland, J.B. & Barker, G.M. (2004). Diptera as predators and parasitoids of terrestrial gastropods, with emphasis on Phoridae, Calliphoridae, Sarcophagidae, Muscidae and Fanniidae. In: *Natural Enemies of Terrestrial Molluscs* (ed. Barker, G.M.). CABI Publishing, Wallingford, pp. 85–158
Craig, M.D. (2014). *Unpublished data of terrestrial vertebrates in South West Australia*
Craig, M.D., Grigg, A.H., Garkaklis, M.J., Hobbs, R.J., Grant, C.D., Fleming, P.A., *et al.* (2009). Does habitat structure influence capture probabilities? A study of reptiles in a eucalypt forest. *Wildl. Res.*, 36, 509–515
Craig, M.D., Grigg, A.H., Hobbs, R.J. & Hardy, G.E.S.J. (2014). Does coarse woody debris density and volume influence the terrestrial vertebrate community in restored bauxite mines? *For. Ecol. Manage.*, 318, 142–150
Craig, M.D., Hardy, G.E.S.J., Fontaine, J.B., Garkakalis, M.J., Grigg, A.H., Grant, C.D., *et al.* (2012). Identifying unidirectional and dynamic habitat filters to faunal recolonisation in restored mine-pits. *J. Appl. Ecol.*, 49, 919–928
Cramp, S., Simmons, K.E.L., Perrins, C.M., Brooks, D.J., Harris, A. & Lewington, I. (1978). *Handbook of the Birds of Europe, the Middle East and North Africa: The Birds of the Western Palearctic*. Oxford University Press, Oxford
Cuevas, M.F. & Martori, R. (2007). Diversidad trófica de dos especies sintópicas del género *Leptodactylus* (Anura: Leptodactylidae) del sudeste de la provincia de Córdoba, Argentina. *Cuad. Herpetol.*, 21, 7–19
Cunningham, S.A., Schellhorn, N.A., Marcora, A. & Batley, M. (2013). Movement and phenology of bees in a subtropical Australian agricultural landscape. *Austral Ecol.*, 38, 456–464
D'Aniello, B., Stanislao, I., Bonelli, S. & Balletto, E. (2011). Haying and grazing effects on the butterfly communities of two Mediterranean-area grasslands. *Biodivers. Conserv.*, 20, 1731–1744
D'Cruze, N. & Kumar, S. (2011). Effects of anthropogenic activities on lizard communities in northern Madagascar. *Anim. Conserv.*, 14, 542–552
Darvill, B., Knight, M.E. & Goulson, D. (2004). Use of genetic markers to quantify bumblebee foraging range and nest density. *Oikos*, 107, 471–478
Davidson, M.M. & Broady, P.A. (1996). Analysis of gut contents of *Gomphiocephalus hodgsoni* Carpenter (Collembola: Hypogastruridae) at Cape Geology, Antarctica. *Polar Biol.*, 16, 463–467
Davis, A.L. V & Philips, T.K. (2005). Effect of deforestation on a Southwest Ghana dung beetle assemblage (Coleoptera : Scarabaeidae) at the periphery of Ankasa conservation area. *Environ. Entomol.*, 34, 1081–1088
Dawson, J., Turner, C., Pileng, O., Farmer, A., McGary, C., Walsh, C., *et al.* (2011). Bird communities of the lower Waria Valley, Morobe Province, Papua New Guinea: a comparison between habitat types. *Trop. Conserv. Sci.*, 4, 317–348
De-Carvalho, C.B., de Freitas, E.B., Faria, R.G., de Carvalho Batista, R., de Carvalho Batista, C., Coelho, W.A., *et al.* (2008). História natural de *Leptodactylus mystacinus* e *Leptodactylus fuscus* (Anura: Leptodactylidae) no Cerrado do Brasil Central. *Biota Neotrop.*, 8, 105–115
Decae, A. (2010). The genus *Ummidia* Thorell 1875 in the western Mediterranean, a review (Araneae: Mygalomorpha: Ctenizidae). *J. Arachnol.*, 38, 328–340
Delabie, J.H.C., Cereghino, R., Groc, S., Dejean, A., Gibernau, M., Corbara, B., *et al.* (2009). Ants as biological indicators of Wayana Amerindian land use in French Guiana. *C. R. Biol.*,

332, 673–684
Dias, A.T.C., Trigo, J.R. & Lewinsohn, T.M. (2010). Bottom-up effects on a plant-endophage-parasitoid system: the role of flower-head size and chemistry. *Austral Ecol.*, 35, 104–115
Diekötter, T., Walther-Hellwig, K., Conradi, M., Suter, M. & Frankl, R. (2006). Effects of landscape elements on the distribution of the rare bumblebee species Bombus muscorum in an agricultural landscape. *Biodivers. Conserv.*, 15, 57–68
Dolia, J., Devy, M.S., Aravind, N.A. & Kumar, A. (2008). Adult butterfly communities in coffee plantations around a protected area in the Western Ghats, India. *Anim. Conserv.*, 11, 26–34
Dominguez-Haydar, Y. & Armbrecht, I. (2010). Response of Ants and Their Seed Removal in Rehabilitation Areas and Forests at El Cerrejon Coal Mine in Colombia. *Restor. Ecol.*, 19, 178–184
Dondale, C.D. & Redner, J.H. (1982). *The Insects and Arachnids of Canada. Part 9. The Sac Spiders of Canada and Alaska (Araneae: Clubionidae and Anyphaenidae)*. NRC Research Press, Ottawa
Dondale, C.D., Redner, J.H., Paquin, P. & Levi, H.W. (2003). *The Insects and Arachnida of Canada. Part 23. The Orb-Weaving Spiders of Canada and Alaska (Araneae: Uloboridae, Tetragnathidae, Pisauridae, Oxyopidae)*. NRC Research Press, Ottawa
Doughty, C., Day, N. & Plant, A. (1999). *Birds of the Solomons, Vanuatu and New Caledonia*. Christopher Helm, London
Douglas, M.R., Rohr, J.R. & Tooker, J.F. (2015). Neonicotinoid insecticide travels through a soil food chain, disrupting biological control of non-target pests and decreasing soya bean yield. *J. Appl. Ecol.*, 52, 250–260
Dumont, B., Farruggia, A., Garel, J.P., Bachelard, P., Boitier, E. & Frain, M. (2009). How does grazing intensity influence the diversity of plants and insects in a species-rich upland grassland on basalt soils? *Grass Forage Sci.*, 64, 92–105
Dunning, J.B. (1993). *CRC Handbook of Avian Body Masses*. CRC Press, Boca Raton, Florida, USA
Dures, S.G. & Cumming, G.S. (2010). The confounding influence of homogenising invasive species in a globally endangered and largely urban biome: Does habitat quality dominate avian biodiversity? *Biol. Conserv.*, 143, 768–777
Edenius, L., Mikusinski, G. & Bergh, J. (2011). Can repeated fertilizer applications to young Norway spruce enhance avian diversity in intensively managed forests? *Ambio*, 40, 521–527
Edgar, M. (2014). What can we learn from body length? A study in Coleoptera. Imperial College London
Ehrlich, P., Dobkin, D.S. & Wheye, D. (1988). *The Birder's Handbook: A Field Guide to the Natural History of North American Birds*. Simon and Schuster, inc., New York
Eigenbrod, F., Hecnar, S.J. & Fahrig, L. (2008). Accessible habitat: an improved measure of the effects of habitat loss and roads on wildlife populations. *Landsc. Ecol.*, 23, 159–168
Eitzinger, B. & Traugott, M. (2011). Which prey sustains cold-adapted invertebrate generalist predators in arable land? Examining prey choices by molecular gut-content analysis. *J. Appl. Ecol.*, 48, 591–599
Elek, Z. & Lovei, G.L. (2007). Patterns in ground beetle (Coleoptera: Carabidae) assemblages along an urbanisation gradient in Denmark. *Acta Oecologica*, 32, 104–111
Endo, W., Peres, C.A., Salas, E., Mori, S., Sanchez-Vega, J.L., Shepard, G.H., *et al.* (2010). Game vertebrate densities in hunted and nonhunted forest sites in Manu National Park, Peru. *Biotropica*, 42, 251–261
Enseñanza, C.A.T. de I. y. (2010). *Unpublished data of reptilian and amphibian diversity in six countries in Central America*. Centro Agronómico Tropical de Investigación y Enseñanza

(CATIE)
Ewers, R.M., Thorpe, S. & Didham, R.K. (2007). Synergistic interactions between edge and area effects in a heavily fragmented landscape. *Ecology*, 88, 96–106
Fabricante, K.M.B. & Nuñeza, O.M. (2012). Diet and endoparasites of Rana grandocula (Amphibia, Ranidae) and Limnonectes magnus (Amphibia, Dicroglossidae) in Mt. Sambilikan, Diwata Range, Agusan del Sur, Philippines. *Adv. Environ. Sci.*, 4, 113–121
Faruk, A., Belabut, D., Ahmad, N., Knell, R.J. & Garner, T.W.J. (2013). Effects of oil-palm plantations on diversity of tropical anurans. *Conserv. Biol.*, 27, 615–624
Farwig, N., Sajita, N. & Böhning-Gaese, K. (2008). Conservation value of forest plantations for bird communities in western Kenya. *For. Ecol. Manage.*, 255, 3885–3892
Fayle, T.M., Turner, E.C., Snaddon, J.L., Chey, V.K., Chung, A.Y.C., Eggleton, P., *et al.* (2010). Oil palm expansion into rain forest greatly reduces ant biodiversity in canopy, epiphytes and leaf-litter. *Basic Appl. Ecol.*, 11, 337–345
Feare, C. & Craig, A. (1999). *Starlings and Mynas*. Princeton University Press, Princeton
Fermon, H., Waltert, M., Vane-Wright, R.I. & Muhlenberg, M. (2005). Forest use and vertical stratification in fruit-feeding butterflies of Sulawesi, Indonesia: impacts for conservation. *Biodivers. Conserv.*, 14, 333–350
Fernandez, I.C. & Simonetti, J.A. (2013). Small mammal assemblages in fragmented shrublands of urban areas of Central Chile. *Urban Ecosyst.*, 16, 377–387
Fernandez, N. & Cleva, R. (2010). Une nouvelle espèce de *Scapheremaeus* (Arachnida, Acari, Oribatida, Cymbaeremaeidae) de Madagascar: *Scapheremaeus pauliani* n. sp. *Zoosystema*, 32, 101–115
Fierro, M.M., Cruz-Lopez, L., Sanchez, D., Villanueva-Gutierrez, R. & Vandame, R. (2012). Effect of Biotic Factors on the Spatial Distribution of Stingless Bees (Hymenoptera: Apidae, Meliponini) in Fragmented Neotropical Habitats. *Neotrop. Entomol.*, 41, 95–104
Filgueiras, B.K.C., Iannuzzi, L. & Leal, I.R. (2011). Habitat fragmentation alters the structure of dung beetle communities in the Atlantic Forest, *Biol. Conserv.* 144, 362–369
Fitzpatrick, J.W. & Stotz, D.F. (1997). A new species of tyrannulet (*Phylloscartes*) from the Andean foothills of Peru and Bolivia. *Ornithol. Monogr.*, 48, 37–46
Fjeldså, J. & Krabbe, N. (1990). *Birds of the High Andes: A Manual to the Birds of the Temperate Zone of the Andes and Patagonia, South America*. Zoological Museum, University of Copenhagen, Copenhagen
Floren, A., Freking, A., Biehl, M. & Linsenmair, K.E. (2001). Anthropogenic disturbance changes the structure of arboreal tropical ant communities. *Ecography*, 24, 547–554
Forel, A. (1914). Einige amerikanische Ameisen. *Dtsch. Entomol. Zeitschrift*, 1914, 615–620
Forti, L.R., Tissiani, A.S.O., Mott, T. & Strüssmann, C. (2011). Diet of Ameerega braccata (Steindachner, 1864) (Anura: Dendrobatidae) from Chapada dos Guimarães and Cuiabá, Mato Grosso State, Brazil. *Brazilian J. Biol.*, 71, 189–196
Fouquet, A., Gaucher, P., Blanc, M. & Velez-Rodriguez, C.M. (2007). Description of two new species of *Rhinella* (Anura: Bufonidae) from the lowlands of the Guiana shield. *Zootaxa*, 1663, 17–32
Fowler, R.E. (2014). An investigation into bee assemblage change along an urban-rural gradient. PhD Thesis, University of Birmingham
Fowler, S. V., Peterson, P., Barrett, D.P., Forgie, S., Gleeson, D.M., Harman, H., *et al.* (2015). Investigating the poor performance of heather beetle, *Lochmaea suturalis* (Thompson) (Coleoptera: Chrysomelidae), as a weed biocontrol agent in New Zealand: has genetic bottlenecking resulted in small body size and poor winter survival? *Biol. Control*, 87, 32–38
Frank, J.H. & Ahn, K.-J. (2011). Coastal Staphylinidae (Coleoptera): a worldwide checklist, biogeography and natural history. *Zookeys*, 107, 1–98

Franzén, M. & Nilsson, S.G. (2008). How can we preserve and restore species richness of pollinating insects on agricultural land? *Ecography*, 31, 698–708
Freire, G.D. & Motta, P.C. (2011). Effects of experimental fire regimes on the abundance and diversity of cursorial arachnids of Brazilian savannah (Cerrado biome). *J. Arachnol.*, 39, 263–272
Frith, C. & Beehler, B.M. (1998). *The Birds of Paradise*. Oxford University Press, Oxford
Frizzo, T.L.M. & Vasconcelos, H.L. (2013). The potential role of scattered trees for ant conservation in an agriculturally dominated Neotropical landscape. *Biotropica*, 45, 644–651
Fukuda, D., Tisen, O.B., Momose, K. & Sakai, S. (2009). Bat diversity in the vegetation mosaic around a lowland dipterocarp forest of Borneo. *Raffles Bull. Zool.*, 57, 213–221
Furlani, D., Ficetola, G.F., Colombo, G., Ugurlucan, M. & De Bernardi, F. (2009). Deforestation and the structure of frog communities in the Humedale Terraba-Sierpe, Costa Rica. *Zoolog. Sci.*, 26, 197–202
Gaborieau, O. & Measey, G.J. (2004). Termitivore or detritivore? A quantitative investigation into the diet of the East African caecilian *Boulengerula taitanus* (Amphibia: Gymnophiona: Caeciliidae). *Anim. Biol.*, 54, 45–56
Gaigher, R. & Samways, M.J. (2010). Surface-active arthropods in organic vineyards, integrated vineyards and natural habitat in the Cape Floristic Region. *J. Insect Conserv.*, 14, 595–605
Galina-Tessaro, P., Ortega-Rubio, A., Romero-Schmidt, H. & Blázquez, C. (1997). September diet and reproductive state of *Uta stansburiana* (Phrynosomatidae) at Isla San Roque, Baja California Sur, México. *J. Arid Environ.*, 37, 65–70
Galvis, J.P. & Fernández, F. (2009). Ants of Colombia X. *Acanthognathus* with the description of a new species (Hymenoptera: Formicidae). *Rev. Colomb. Entomol.*, 35, 245–249
Garcia-Paris, M., Coca-Abia, M. & Parra-Olea, G. (2001). A new species of *Noserus* (Coleoptera: Zopheridae) from Mexico. *Pan Pacific Entomol.*, 77, 144–155
García-R, J.C., Cárdenas-H, H. & Castro-H, F. (2007). Relationship between anurans diversity and successional stages of a very humid low montane forest in Valle del Cauca, southwestern of Colombia. *Caldasia*, 29, 363–374
García-R, J.C., Lucas-Velásquez, L., Cárdenas-Henao, H. & Posso-Gómez, C.E. (2012). Ecología alimentaria de la rana de lluvia endémica *Pristimantis jubatus* (Craugastoridae) en el Parque Nacional Natural Munchique, Colombia. *Acta Biológica Colomb.*, 17, 409–418
Garcia-R, J.C., Posso-Gómez, C.E. & Cárdenas-Henao, H. (2015). Diet of direct-developing frogs (Anura: Craugastoridae: Pristimantis) from the Andes of western Colombia. *Acta Biológica Colomb.*, 20, 79–87
García, K.P., Ortiz Zapata, J.C., Aguayo, M. & D'Elia, G. (2013). Assessing rodent community responses in disturbed environments of the Chilean Patagonia. *Mammalia*, 77, 195–204
Garcia, V.O.S., Papa, R.D.S., Briones, J.C.A., Mendoza, N., Okuda, N. & Diesmos, A.C. (2014). Food habits and distribution of the Lake Taal sea snake (*Hydrophis semperi* Garman 1881) and the sympatric little file snake (*Acrochordus granulatus* Schneider 1799) in Lake Taal, Philippines. *Asian Herpetol. Res.*, 5, 255–262
Garda, A.A., Costa, G.C., França, F.G.R., Giugliano, L.G., Leite, G.S., Mesquita, D.O., *et al.* (2012). Reproduction, body size, and diet of *Polychrus acutirostris* (Squamata: Polychrotidae) in two contrasting environments in Brazil. *J. Herpetol.*, 46, 2–8
Gardner, T.A., Hernandez, M.I.M., Barlow, J. & Peres, C.A. (2008). Understanding the biodiversity consequences of habitat change: the value of secondary and plantation forests for neotropical dung beetles. *J. Appl. Ecol.*, 45, 883–893
Gardner, T.A., Onio, M.A.N.T., Unior, R., Barlow, J.O.S., Cristina, T., Hoogmoed, M.S., *et*

al. (2007). The Value of Primary , Secondary , and Plantation Forests for a Neotropical Herpetofauna, 21, 775–787
Garmendia, A., Arroyo-Rodriguez, V., Estrada, A., Naranjo, E.J. & Stoner, K.E. (2013). Landscape and patch attributes impacting medium- and large-sized terrestrial mammals in a fragmented rain forest. *J. Trop. Ecol.*, 29, 331–344
Gaublomme, E., Hendrickx, F., Dhuyvetter, H. & Desender, K. (2008). The effects of forest patch size and matrix type on changes in carabid beetle assemblages in an urbanized landscape. *Biol. Conserv.*, 141, 2585–2596
Ge, B.M., Li, Z.X., Zhang, D.Z., Zhang, H.B., Liu, Z.T., Zhou, C.L., *et al.* (2012). Communities of soil macrofauna in green spaces of an urbanizing city at east China. *Rev. Chil. Hist. Nat.*, 85, 219–226
Gheler-Costa, C., Vettorazzi, C.A., Pardini, R. & Verdade, L.M. (2012). The distribution and abundance of small mammals in agroecosystems of southeastern Brazil. *Mammalia*, 76, 185–191
Goiran, C., Dubey, S. & Shine, R. (2013). Effects of season, sex and body size on the feeding ecology of turtle-headed sea snakes (*Emydocephalus annulatus*) on IndoPacific inshore coral reefs. *Coral Reefs*, 32, 527–538
Goldberg, S.R. & Bursey, C.R. (2008). Helminths from fifteen species of frogs (Anura, Hylidae) from Costa Rica. *Phyllomedusa*, 7, 25–33
Goldman-Huertas, B., Mitchell, R.F., Lapoint, R.T., Faucher, C.P., Hildebrand, J.G. & Whiteman, N.K. (2015). Evolution of herbivory in Drosophilidae linked to loss of behaviors, antennal responses, odorant receptors, and ancestral diet. *Proc. Natl. Acad. Sci. U. S. A.*, 112, 3026–3031
Gomes, L.G.L., Oostra, V., Nijman, V., Cleef, A.M. & Kappelle, M. (2008). Tolerance of frugivorous birds to habitat disturbance in a tropical cloud forest. *Biol. Conserv.*, 141, 860–871
Gómez-Fernández, D., Castaño, S., Fierro, L., Ambrecht, I. & Asencio-Santofimio, H. (2013). Análisis trófico de Andinobates minutus (Anura: Dendrobatidae) en un bosque húmedo tropical de la Isla La Palma, Colombia. *Caldasia*, 35, 325–332
González, C.E. & Hamann, M.I. (2008). Nematode parasites of two anuran species *Rhinella schneideri* (Bufonidae) and *Scinax acuminatus* (Hylidae) from Corrientes, Argentina. *Rev. Biol. Trop.*, 56, 2147–2161
Goodwin, D. & Woodcock, M. (1982). *Estrildid Finches of the World*. British Museum (Natural History), London
Gopi Sundar, K.S. (1998). Observation on Gnaphosid spider preying on *Philautus* species. *Hamadryad*, 23, 76
Gottschalk, M.S., Bizzo, L., Döge, J.S., Profes, M.S., Hofmann, P.R.P. & Valente, V.L.S. (2009). Drosophilidae (Diptera) associated to fungi: differential use of resources in anthropic and Atlantic Rain Forest areas. *Iheringia, Série Zool.*, 99, 442–448
Gottschalk, M.S., De Toni, D.C., Valente, V.L.S. & Hofmann, P.R.P. (2007). Changes in Brazilian Drosophilidae (Diptera) assemblages across an urbanisation gradient. *Neotrop. Entomol.*, 36, 848–62
Gould, R.K., Pejchar, L., Bothwell, S.G., Brosi, B., Wolny, S., Mendenhall, C.D., *et al.* (2013). Forest Restoration and Parasitoid Wasp Communities in Montane Hawai'i. *PLoS One*, 8
Goulson, D., Lepais, O., O'Connor, S., Osborne, J.L., Sanderson, R.A., Cussans, J., *et al.* (2010). Effects of land use at a landscape scale on bumblebee nest density and survival. *J. Appl. Ecol.*, 47, 1207–1215
Goulson, D., Lye, G.C. & Darvill, B. (2008). Diet breadth, coexistence and rarity in bumblebees. *Biodivers. Conserv.*, 17, 3269–3288

Gove, A.D., Majer, J.D. & Rico-Gray, V. (2005). Methods for conservation outside of formal reserve systems: The case of ants in the seasonally dry tropics of Veracruz, Mexico. *Biol. Conserv.*, 126, 328–338
Granjon, L. & Duplantier, J.M. (2011). Guinean biodiversity at the edge: Rodents in forest patches of southern Mali. *Mamm. Biol.*, 76, 583–591
Grass, I., Berens, D.G., Peter, F. & Farwig, N. (2013). Additive effects of exotic plant abundance and land-use intensity on plant-pollinator interactions. *Oecologia*, 173, 913–923
Gray, C.L., Slade, E.M., Mann, D.J. & Lewis, O.T. (2014). Do riparian reserves support dung beetle biodiversity and ecosystem services in oil palm-dominated tropical landscapes? *Ecol. Evol.*, 4, 1049–1060
Grimmett, R., Inskipp, C. & Inskipp, T. (1998). *Birds of the Indian Subcontinent*. Christopher Helm, London
Gu, W.-B., Zhen-Rong, Y. & Dun-Xiao, H. (2004). Carabid community and its fluctuation in farmland of salinity transforming area in the North China Plain: a case study in Quzhou County, Hebei Province. *Biodivers. Sci.*, 12, 262–268
Guayasamin, J.M., Ron, S.R., Cisneros-Heredia, D.F., Lamar, W. & McCracken, S.F. (2006). A new species of frog of the *Eleutherodactylus lacrimosus* assemblage (Leptodactylidae) from the western Amazon Basin, with comments on the utility of canopy surveys in lowland rainforest. *Herpetologica*, 62, 191–202
Gutierrez-Lamus, D.L. (2004). Composition and abundance of Anura in two forest types (natural and planted) in the eastern Cordillera of Colombia. *Caldasia*, 26, 245–264
Haddad, C.R., Louw, S.V. & Dippenaar-Schoeman, A.S. (2004). An assessment of the biological control potential of *Heliophanus pistaciae* (Araneae: Salticidae) on *Nysius natalensis* (Hemiptera: Lygaeidae), a pest of pistachio nuts. *Biol. Control*, 31, 83–90
Halliday, T. & Adler, K. (2002). *The New Encyclopedia of Reptiles and Amphibians*. Oxford University Press, Oxford
van der Hammen, L. & Strenzke, K. (1953). A partial revision of the genus *Metabelba* Grandjean (Oribatei, Acari). *Zool. Meded.*, 32, 141–154
Hammer, M. (1952). Investigations on the microfauna of northern Canada. I. Oribatidae. *Acta Arctica*, 4, 1–108
Hanley, M.E. (2005). *Unpublished data of bee diversity in UK croplands*
Hanley, M.E. (2011). *Unpublished data of bee diversity in UK croplands and urban habitats*
Hantak, M.M., Grant, T., Reinsch, S., Mcginnity, D., Loring, M., Toyooka, N., *et al.* (2013). Dietary alkaloid sequestration in a poison frog: an experimental test of alkaloid uptake in *Melanophryniscus stelzneri* (Bufonidae). *J. Chem. Ecol.*, 39, 1400–1406
Harrap, S. & Quinn, D. (1995). *Tits, Nuthatches and Creepers*. Christopher Helm, London
Hartmann, P.A. & Marques, O.A. V. (2005). Diet and habitat use of two sympatric species of Philodryas (Colubridae), in south Brazil. *Amphibia-Reptilia*, 26, 25–31
Hatfield, R.G. & LeBuhn, G. (2007). Patch and landscape factors shape community assemblage of bumble bees, Bombus spp. (Hymenoptera: Apidae), in montane meadows. *Biol. Conserv.*, 139, 150–158
Hawes, J., Motta, S., Overal, W.L., Barlow, J., Gardner, T.A. & Peres, C.A. (2009). Diversity and composition of Amazonian moths in primary, secondary and plantation forests, 281–300
Hawkeswood, T.J. & Turner, J.R. (2004). Observations on *Metriorrhynchus rhipidius* (Macleay) (Coleoptera: Lycidae) feeding on nectar from the flowers of *Leucopogon muticus* R . Br . (Epacridaceae) at Kenthurst, New South Wales, Australia. *Calodema*, 2, 8–10
Heather, B., Robertson, H. & Onley, D. (1997). *Field Guide to the Birds of New Zealand*. Oxford University Press, Oxford
Helden, A.J. & Leather, S.R. (2004). Biodiversity on urban roundabouts–Hemiptera, management and the species-area relationship. *Basic Appl. Ecol.*, 5, 367–377

Henderson, R.W. & Pauers, M.J. (2012). On the diets of neotropical treeboas (Squamata: Boidae: *Corallus*). *South Am. J. Herpetol.*, 7, 172–180
Herczeg, G., Kovács, T., Korsós, Z. & Török, J. (2007). Microhabitat use, seasonal activity and diet of the snake-eyed skink (*Ablepharus kitaibelii fitzingeri*) in comparison with sympatric lacertids in Hungary. *Biol. Bratislava*, 62, 482–487
Hertz, A., Hauenschild, F., Lotzkat, S. & Köhler, G. (2012). A new golden frog species of the genus *Diasporus* (Amphibia, Eleutherodactylidae) from the Cordillera Central, western Panama. *Zookeys*, 196, 23–46
Heyer, W.R. (1994). Variation within the *Leptodactylus podicipinus-wagneri* complex of frogs (Amphibia: Leptodactylidae). *Smithson. Contrib. to Zool.*, 546
Heyer, W.R., García-Lopez, J.M. & Cardoso, A.J. (1996). Advertisement call variation in the *Leptodactylus mystaceus* species complex (Amphibia: Leptodactylidae) with a description of a new sibling species. *Amphibia-Reptilia*, 17, 7–31
Heyer, W.R. & Heyer, M.M. (2002). *Leptodactylus elenae* Heyer. *Cat. Am. Amphib. Reptil.*, 742.1-742.5
Hilje, B. & Aide, T.M. (2012). Recovery of amphibian species richness and composition in a chronosequence of secondary forests, northeastern Costa Rica. *Biol. Conserv.*, 146, 170–176
Hilty, S.L., Gwynne, J.A. & Tudor, G. (2003). *Birds of Venezuela*. Princeton University Press, Princeton
Hoffmann, A. & Zeller, U. (2005). Influence of variations in land use intensity on species diversity and abundance of small mammals in the Nama Karoo, Namibia. *Belgian J. Zool.*, 135, 91–96
Holzinger, W.E., Emelianov, A.F. & Kammerlander, I. (2002). The family Cixiidae Spinola 1839 (Hemiptera: Fulgoromorpha) – a review. Zikaden leafhoppers, planthoppers and Cicadas (Insecta: Hemiptera: Auchenorrhyncha). *Katalog Denisia*, 4, 113–138
Horgan, F.G. (2009). Invasion and retreat: shifting assemblages of dung beetles amidst changing agricultural landscapes in central Peru. *Biodivers. Conserv.*, 18, 3519–3541
Horváth, Z. (2003). Damage in corn production and in hybrid multiplication caused by species of the Anthicidae (Coleoptera) family. *Cereal Res. Commun.*, 31, 421–427
Howell, S.N.G. & Webb, S. (1995). *A Guide to the Birds of Mexico and Northern Central America*. Oxford University Press, Oxford
del Hoyo, J., Elliott, A., Sargatal, J. & Christie, D.A. (1992). *Handbook of the Birds of the World*. Lynx Edicions, Barcelona
Huber, F., Moore, T.E. & Loher, W. (1989). *Cricket behaviour and neurobiology*. Cornell University Press, Ithaca, New York
Hubert, M. (1979). *Les Araignées. Généralités. Araignées de France et Pays Limitrophes*. Boubée, Paris
Huntsman, B.M., Venarsky, M.P., Benstead, J.P. & Huryn, A.D. (2011). Effects of organic matter availability on the life history and production of a top vertebrate predator (Plethodontidae: *Gyrinophilus palleucus*) in two cave streams. *Freshw. Biol.*, 56, 1746–1760
Hylander, K., Nilsson, C. & Gothner, T. (2004). Effects of buffer-strip retention and clearcutting on land snails in boreal riparian forests. *Conserv. Biol.*, 18, 1052–1062
Ibáñez, R., Jaramillo, C.A. & Solis, F.A. (2012). Description of the advertisement call of a species without vocal sac: *Craugastor gollmeri* (Amphibia: Craugastoridae). *Zootaxa*, 3184, 67–68
Ims, R.A. & Henden, J.A. (2012). Collapse of an arctic bird community resulting from ungulate-induced loss of erect shrubs. *Biol. Conserv.*, 149, 2–5
Isaacs-Cubides, P.J. & Urbina-Cardona, J.N. (2011). Anthropogenic disturbance and edge effects on anuran assemblages inhabiting cloud forest fragments in Colombia. *Nat. Conserv.*, 9, 39–46

Ishitani, M., Kotze, D.J. & Niemela, J. (2003). Changes in carabid beetle assemblages across an urban-rural gradient in Japan. *Ecography*, 26, 481–489
Isler, M.L. & Isler, P.R. (1999). *The Tanagers: Natural History, Distribution and Identification*. Smithsonian Institution Press, Washington D. C.
Jacobs, C.T., Scholtz, C.H., Escobar, F. & Davis, A.L. V. (2010). How might intensification of farming influence dung beetle diversity (Coleoptera: Scarabaeidae) in Maputo Special Reserve (Mozambique)? *J. Insect Conserv.*, 14, 389–399
Jacot, A.P. (1922). *Oribatoidea sinensis* I. *J. North China Branch R. Asiat. Soc.*, 53
Jacot, A.P. (1929). *Annotated bibliography of the moss mites (Oribatoidea, Aoarina)*. Catholic Mission Press, Tsingtao
Jacot, A.P. (1935). Galumna alatus Willmann (Acari, Oribatidae). *Ann. Mag. Nat. Hist.*, 15, 489–492
Jacot, A.P. (1937). Journal of North-American moss-mites. *J. New York Entomol. Soc.*, 45, 353–375
Jalilova, G., de Groot, J. & Vacik, H. (2013). Evaluating the effects of habitats on birds in the walnut fruit forests: a case study from Kyrgyzstan. *Biodiversity*, 14, 97–110
Jaramillo, A. & Burke, P. (1999). *New World Blackbirds*. Princeton University Press, Princeton
Jared, C., Antoniazzi, M.M., Verdade, V.K. & Toledo, L.F. (2011). The Amazonian toad *Rhaebo guttatus* is able to voluntarily squirt poison from the paratoid macroglands. *Amphibia-Reptilia*, 32, 546–549
Johnson, M.F., Gómez, A. & Pinedo-Vasquez, M. (2008). Land use and mosquito diversity in the Peruvian Amazon. *J. Med. Entomol.*, 45, 1023–1030
Johnson, N.K. & Jones, R.E. (2001). A new species of tody-tyrant (Tyrannidae: *Poecilotriccus*) from Northern Peru. *Auk*, 118, 334–341
Jolli, V. & Pandit, M.K. (2011). Monitoring pheasants (Phasianidae) in the western Himalayas to measure the impact of hydro-electric projects. *Ring*, 33, 37–46
Jones, K.E., Bielby, J., Cardillo, M., Fritz, S.A., O'Dell, J., Orme, C.D.L., *et al.* (2009). PanTHERIA: a species-level database of life history, ecology, and geography of extant and recently extinct mammals. *Ecology*, 90, 2648
Jonsell, M. (2012). Old park trees as habitat for saproxylic beetle species. *Biodivers. Conserv.*, 21, 619–642
Jueg, U. (2004). Die verbreitung und ökologie von *Vertigo moulinsiana* (DUPUY, 1849) in Mecklenburg – Vorpommern (Gastropoda: Stylommatophora: Vertiginidae). *Malakol. Abhandlungen*, 22, 87–124
Julier, H.E. & Roulston, T.H. (2009). Wild Bee Abundance and Pollination Service in Cultivated Pumpkins: Farm Management, Nesting Behavior and Landscape Effects. *J. Econ. Entomol.*, 102, 563–573
Jung, T.S. & Powell, T. (2011). Spatial distribution of meadow jumping mice (*Zapus hudsonius*) in logged boreal forest of northwestern Canada. *Mamm. Biol.*, 76, 678–682
Jungfer, K.-H. & Hödl, W. (2002). A new species of *Osteocephalus* from Ecuador and a redescription of *O. leprieurii* (Dumeril & Bibron, 1841) (Anura: Hylidae). *Amphibia-Reptilia*, 23, 21–46
Kan, F.W. (2010). Population dynamics, diet and morphological variation of the Hong Kong newt (*Paramesotriton hongkongensis*). The University of Hong Kong
Kapoor, V. (2008). Effects of rainforest fragmentation and shade-coffee plantations on spider communities in the Western Ghats, India. *J. Insect Conserv.*, 12, 53–68
Kati, V., Zografou, K., Tzirkalli, E., Chitos, T. & Willemse, L. (2012). Butterfly and grasshopper diversity patterns in humid Mediterranean grasslands: the roles of disturbance and environmental factors. *J. Insect Conserv.*, 16, 807–818

Kazerani, F., S., K. & Grichanov, I. (2013). Diversity of the genus *Dolichopus* Latreille in three different habitats of East Azerbaijan Province, with new records for Iran. *Arx. Miscel·lània Zoològica*, 11, 134–152
Kennedy, R.S., Gonzales, P.C., Dickinson, E.C., Miranda, H. & Fisher, T.H. (2000). *A Guide to the Birds of the Philippines*. Oxford University Press, Oxford
Kessler, M., Abrahamczyk, S., Bos, M., Buchori, D., Putra, D.D., Gradstein, S.R., *et al.* (2009). Alpha and beta diversity of plants and animals along a tropical land-use gradient. *Ecol. Appl.*, 19, 2142–56
Keszthelyi, S. (2015). Diversity and seasonal patterns of longhorn beetles (Coleoptera: Cerambycidae) in the Zselic region, Hungary. *North. West. J. Zool.*, 11, 62–69
Kittle, A.M., Watson, A.C., Chanaka Kumara, P.H. & Nimalka Sanjeewani, H.K. (2012). Status and distribution of the leopard in the central hills of Sri Lanka. *Cat News*, 56, 28–31
Knapp, M. & Uhnavá, K. (2014). Body size and nutrition intake effects on fecundity and overwintering success in *Anchomenus dorsalis* (Coleoptera: Carabidae). *J. Insect Sci.*, 14, 2014
Kohler, F., Verhulst, J., van Klink, R. & Kleijn, D. (2008). At what spatial scale do high-quality habitats enhance the diversity of forbs and pollinators in intensively farmed landscapes? *J. Appl. Ecol.*, 45, 753–762
Koivula, M., Hyyrylainen, V. & Soininen, E. (2004). Carabid beetles (Coleoptera: Carabidae) at forest-farmland edges in southern Finland. *J. Insect Conserv.*, 8, 297–309
Koli, Y.J., Bhawane, G.P. & Ghate, H. V. (2014). Record of the fungus beetle *Spathomeles anceps* (Gorham) (Coleoptera: Endomychidae: Lycoperdininae) from Kolhapur, Maharashtra, India. *J. Threat. Taxa*, 6, 6477–6479
Kone, M., Konate, S., Yeo, K. & Kouassi, P.K. (2010). Diversity and abundance of terrestrial ants along a gradient of land use intensification in a transitional forest-savannah zone of Côte d'Ivoire, 1809–1827
Kőrösi, Á., Batáry, P., Orosz, A., Rédei, D. & Báldi, A. (2012). Effects of grazing, vegetation structure and landscape complexity on grassland leafhoppers (Hemiptera: Auchenorrhyncha) and true bugs (Hemiptera: Heteroptera) in Hungary. *Insect Conserv. Divers.*, 5, 57–66
Krabbe, N., Isler, M.L., Isler, P.R., Whitney, B.M., Alvarez, J. & Greenfield, P.J. (1999). A new species in the *Myrmotherula haematonota* superspecies (Aves; Thamnophilidae) from the western Amazonian lowlands of Ecuador and Peru. *Wilson Bull.*, 111, 157–302
Krabbe, N. & Schulenberg, T.S. (1997). Species limits and natural history of *Scytalopus tapaculos* (Rhinocryptidae), with descriptions of the Ecuadorian taxa, including three new species. *Ornithol. Monogr.*, 48, 47–88
Kramer, J.P. (1983). Taxonomic study of the planthopper family Cixiidae in the United States (Homoptera: Fulgoroidea). *Trans. Am. Entomol. Soc.*, 109, 1–57
Krauss, J., Bommarco, R., Guardiola, M., Heikkinen, R.K., Helm, A., Kuussaari, M., *et al.* (2010). Habitat fragmentation causes immediate and time-delayed biodiversity loss at different trophic levels. *Ecol. Lett.*, 13, 597–605
Kugler, C. & Brown, W.L. (1982). Revisionary and other studies on the ant genus *Ectatomma*, including the descriptions of two new species. In: *Search Agriculture*. Cornell University, Ithaca, United States of America
Kurz, D.J., Nowakowski, A.J., Tingley, M.W., Donnelly, M.A. & Wilcove, D.S. (2014). Forest-land use complementarity modifies community structure of a tropical herpetofauna. *Biol. Conserv.*, 170, 246–255
Kutt, A.S., Vanderduys, E.P. & O'Reagain, P. (2012). Spatial and temporal effects of grazing management and rainfall on the vertebrate fauna of a tropical savanna. *Rangel. J.*, 34, 173–182
Kutt, A.S. & Woinarski, J.C.Z. (2007). The effects of grazing and fire on vegetation and the

vertebrate assemblage in a tropical savanna woodland in north-eastern Australia. *J. Trop. Ecol.*, 23, 95–106
Lachat, T., Attignon, S., Djego, J., Goergen, G., Nagel, P., Sinsin, B., *et al.* (2006). Arthropod diversity in Lama forest reserve (South Benin), a mosaic of natural, degraded and plantation forests. *Biodivers. Conserv.*, 15, 3–23
Lake, E.C., Smith, M.C., Dray, F.A. & Pratt, P.D. (2015). Ecological host-range of *Lilioceris cheni* (Coleoptera: Chrysomelidae), a biological control agent of *Dioscorea bulbifera*. *Biol. Control*, 85, 18–24
Lambert, F. & Woodcock, M. (1996). *Pittas, Broadbills and Asities*. Pica Press, Mountfield, Sussex, United Kingdom
Lance, S.L. & Wells, K.D. (1993). Are spring peeper satellite males physiologically inferior to calling males? *Copeia*, 1993, 1162–1166
Langrand, O., Bretagnolle, V. & Daniels, W. (1990). *Guide to the Birds of Madagascar*. Yale University Press, New Haven
Lantschner, M. V, Rusch, V. & Hayes, J.P. (2012). Habitat use by carnivores at different spatial scales in a plantation forest landscape in Patagonia, Argentina. *For. Ecol. Manage.*, 269, 271–278
Lantschner, M. V, Rusch, V. & Peyrou, C. (2008). Bird assemblages in pine plantations replacing native ecosystems in NW Patagonia. *Biodivers. Conserv.*, 17, 969–989
Larivière, M.-C. (1999). Cixiidae (Insecta: Hemiptera: Auchenorrhyncha). In: *Fauna of New Zealand 40*. pp. 1–93. Manaaki Whenua Press, Lincoln, New Zealand
Latta, S.C., Tinoco, B.A., Astudillo, P.X. & Graham, C.H. (2011). Patterns and magnitude of temporal change in avian communities in the Ecuadorian Andes. *Condor*, 113, 24–40
Laufer, H. (2004). Zum beutespektrum einer population von ochsenfröschen (Amphibia: Anura: Ranidae) nördlich von Karlsruhe (Baden-Württemberg, Deutschland). *Faun. Abhandlungen*, 25, 139–150
Lavy, D. & Verhoef, H.A. (1996). Effects of food quality on growth and body composition of the collembolan *Orchese cincta*. *Physiol. Entomol.*, 21, 64–70
Leech, R. (1972). A revision of the Nearctic Amaurobiidae (Arachnida: Araneida). *Mem. Entomol. Soc. Canada*, 104 (S84), 9–182
Lefranc, N. & Worfolk, T. (1997). *Shrikes: A Guide to the Shrikes of the World*. Yale University Press, New Haven
Légaré, J.-P., Hébert, C. & Ruel, J.-C. (2011). Alternative Silvicultural Practices in Irregular Boreal Forests: Response of Beetle Assemblages. *Silva Fenn.*, 45, 937–956
Lehouck, V., Spanhove, T., Colson, L., Adringa-Davis, A., Cordeiro, N.J. & Lens, L. (2009). Habitat disturbance reduces seed dispersal of a forest interior tree in a fragmented African cloud forest. *Oikos*, 118, 1023–1034
Leite, P.T., Nunes, S. de F. & Cechin, S.Z. (2007). Dieta e uso de habitat da jararaca-do-brejo, Mastigodryas bifossatus Raddi (Serpentes, Colubridade) em domínio subtropical do Brasil. *Rev. Bras. Zool.*, 24, 729–734
Lemos-Espinal, J.A., Smith, G.R., Ballinger, R.E. & Smith, H.M. (2003). Ecology of *Sceloporus undulatus* speari (Sauria: Phrynosomatidae) from North-Central Chihuahua, México. *J. Herpetol.*, 37, 722–725
Lensing, J.R. & Wise, D.H. (2004). A test of the hypothesis that a pathway of intraguild predation limits densities of a wolf spider. *Ecol. Entomol.*, 29, 294–299
Lentini, P.E., Martin, T.G., Gibbons, P., Fischer, J. & Cunningham, S.A. (2012). Supporting wild pollinators in a temperate agricultural landscape: Maintaining mosaics of natural features and production. *Biol. Conserv.*, 149, 84–92
Leyte-Manrique, A. & Ramírez-Bautista, A. (2010). Diet of two populations of *Sceloporus grammicus* (Squamata: Phrynosomatidae) from Hidalgo, Mexico. *Southwest. Nat.*, 55, 98–

Li, S.N., Zou, F.S., Zhang, Q. & Sheldon, F.H. (2013). Species richness and guild composition in rubber plantations compared to secondary forest on Hainan Island, China. *Agrofor. Syst.*, 87, 1117–1128
Lima, J.E. de P., Rödder, D. & Solé, M. (2010). Diet of two sympatric *Phyllomedusa* (Anura: Hylidae) species from a cacao plantation in southern Bahia, Brazil. *North. West. J. Zool.*, 6, 13–24
Liow, L.H., Sodhi, N.S. & Elmqvist, T. (2001). Bee diversity along a disturbance gradient in tropical lowland forests of south-east Asia. *J. Appl. Ecol.*, 38, 180–192
Litchwark, S.A. (2013). Honeybee declines in a changing landscape: interactive effects of honeybee declines and land-use intensification on pollinator communities. MSc Thesis, University of Canterbury
Littlewood, N.A. (2008). Grazing impacts on moth diversity and abundance on a Scottish upland estate. *Insect Conserv. Divers.*, 1, 151–160
Littlewood, N.A., Pakeman, R.J. & Pozsgai, G. (2012). Grazing impacts on Auchenorrhyncha diversity and abundance on a Scottish upland estate. *Insect Conserv. Divers.*, 5, 67–74
Liu, Y.H., Axmacher, J.C., Wang, C.L., Li, L.T. & Yu, Z.R. (2012). Ground beetle (Coleoptera: Carabidae) assemblages of restored semi-natural habitats and intensively cultivated fields in northern China. *Restor. Ecol.*, 20, 234–239
Liversidge, R. (1996). A new species of pipit in southern Africa. *Bull. Br. Ornithol. Club*, 116, 211–215
Lo-Man-Hung, N.F., Gardner, T.A., Ribeiro-Júnior, M.A., Barlow, J. & Bonaldo, A.B. (2008). The value of primary, secondary, and plantation forests for Neotropical epigeic arachnids. *J. Arachnol.*, 36, 394–401
Lo-Man-Hung, N.F., Marichal, R., Candiani, D.F., Carvalho, L.S., Indicatti, R.P., Bonaldo, A.B., *et al.* (2011). Impact of different land management on soil spiders (Arachnida: Araneae) in two Amazonian areas of Brazil and Colombia. *J. Arachnol.*, 39, 296–302
Lohaj, R., Čeplík, D., Mlejnek, R. & Lakota, J. (2012). A new species of the genus *Nauticiella* Moravec and Mlejnek from southern Herzegovina (Coleoptera: Leiodidae: Leptodirini). *Fauna Balk.*, 1, 177–187
Lourenço, W.R., de Jesus Junior, M.M.B.G. & Limeira-de-Oliveira, F. (2006). A new species of *Tityus* C. L. Koch, 1836 (Scorpiones, Buthidae) from the state of Maranhão in Brazil. *Boletín Soc. Entomológica Aragon.*, 38, 117–120
Luja, V.H., Herrando-Perez, S., Gonzalez-Solis, D. & Luiselli, L. (2008). Secondary rain forests are not havens for reptile species in tropical Mexico. *Biotropica*, 40, 747–757
Lynch, J.D. (1989). A review of the leptodactylid frogs of the genus *Pseudopaludicola* in Northern South America. *Copeia*, 1989, 577–588
Macip-Ríos, R. & Muñoz-Alonso, A. (2008). Diversidad de lagartijas en cafetales y bosque primario en el Soconusco chiapaneco. *Rev. Mex. Biodivers.*, 79, 185–195
MacKinnon, J. & Phillips, K. (1993). *A Field Guide to the Birds of Borneo, Sumatra, Java and Bali*. Oxford University Press, Oxford
MacKinnon, J., Phillips, K. & Showler, D. (2000). *A Field Guide to the Birds of China*. Oxford University Press, Oxford
MacSwiney, M.C.G., Vilchis, P.L., Clarke, F.M. & Racey, P.A. (2007). The importance of cenotes in conserving bat assemblages in the Yucatan, Mexico. *Biol. Conserv.*, 136, 499–509
Madge, S. & Burn, H. (1994). *Crows and Jays*. Christopher Helm, London
Maeto, K. & Sato, S. (2004). Impacts of forestry on ant species richness and composition in warm-temperate forests of Japan. *For. Ecol. Manage.*, 187, 213–223
Magura, T., Horvath, R. & Tothmeresz, B. (2010). Effects of urbanization on ground-dwelling spiders in forest patches, in Hungary. *Landsc. Ecol.*, 25, 621–629

Mallari, N.A.D., Collar, N.J., Lee, D.C., McGowan, P.J.K., Wilkinson, R. & Marsden, S.J. (2011). Population densities of understorey birds across a habitat gradient in Palawan, Philippines: implications for conservation. *Oryx*, 45, 234–242
Malone, L., Aulsford, J., Howlett, B., Scott-Dupree, C., Bardol, N. & Donovan, B. (2010). Observations on bee species visiting white clover in New Zealand pastures. *J. Apic. Res.*, 49, 284–286
Malonza, P.K. & Veith, M. (2012). Amphibian community along elevational and habitat disturbance gradients in the Taita Hills, Kenya. *Herpetotropicos*, 7, 7–16
Malumbres-Olarte, J., Barratt, B.I.P., Vink, C.J., Paterson, A.M., Cruickshank, R.H., Ferguson, C.M., *et al.* (2014). Big and aerial invaders: dominance of exotic spiders in burned New Zealand tussock grasslands. *Biol. Invasions*, 16, 2311–2322
Maneyro, R. & da Rosa, I. (2004). Temporal and spatial changes in the diet of *Hyla pulchella* (Anura, Hylidae) in southern Uruguay. *Phyllomedusa*, 3, 101–113
Manicom, C. & Schwarzkopf, L. (2011). Diet and prey selection of sympatric tropical skinks. *Austral Ecol.*, 36, 485–496
Mann, C.M., Barnes, S., Offer, B. & Wall, R. (2015). Lethal and sub-lethal effects of faecal deltamethrin residues on dung-feeding insects. *Med. Vet. Entomol.*, 29, 189–195
Marchant, S., Higgins, P.J., Davies, S.J.J.E., Peter, J.M. & Steele, W.K. (1991). *Handbook of Australian, New Zealand and Antarctic Birds*. Oxford University Press, Oxford
Marsh, C. (2005). The birds of the Comoro Islands. MSc Thesis, Imperial College London
Marshall, E.J.P., West, T.M. & Kleijn, D. (2006). Impacts of an agri-environment field margin prescription on the flora and fauna of arable farmland in different landscapes. *Agric. Ecosyst. Environ.*, 113, 36–44
Martin, P.S., Gheler-Costa, C., Lopes, P.C., Rosalino, L.M. & Verdade, L.M. (2012). Terrestrial non-volant small mammals in agro-silvicultural landscapes of Southeastern Brazil. *For. Ecol. Manage.*, 282, 185–195
Matson, T.O. (1990). A morphometric comparison of gray treefrogs, *Hyla chrysoscelis* and *H. versicolor*, from Ohio. *Ohio J. Sci.*, 90, 98–101
Mayr, E. (1978). *Birds of the Southwest Pacific*. Tuttle, Rutland, Vermont
McArthur, A. (2010). *A Guide to Camponotus Ants of South Australia*. South Australian Museum, Adelaide
McCarthy, J.L., McCarthy, K.P., Fuller, T.K. & McCarthy, T.M. (2010). Assessing variation in wildlife biodiversity in the Tien Shan mountains of Kyrgyzstan using ancillary camera-trap photos. *Mt. Res. Dev.*, 30, 295–301
McCoy, E.D., Ihász, N., Britt, E.J. & Mushinsky, H.R. (2010). Is the Florida sand skink (*Plestiodon reynoldsi*) a dietary specialist? *Herpetologica*, 66, 432–442
McCranie, J.R. & Wilson, L.D. (1993). Taxonomic changes associated with the names *Hyla spinipollex* Schmidt and *Ptychohyla merazi* Wilson and McCranie (Anura: Hylidae). *Southwest. Nat.*, 38, 100–104
McCutcheon, G.S. (2002). Consumption of tobacco budworm (Lepidoptera: Noctuidae) by hooded beetle (Coleoptera: Anthicidae) and bigeyed bug (Hemiptera: Lygaeidae). *J. Agric. Urban Entomol.*, 19, 55–61
McFrederick, Q.S. & LeBuhn, G. (2006). Are urban parks refuges for bumble bees *Bombus spp*. (Hymenoptera: Apidae)? *Biol. Conserv.*, 129, 372–382
McGavin, G. (2000). *Insects, Spiders and other Terrestrial Arthropods*. Dorling Kindersley, London
McShea, W.J., Stewart, C., Peterson, L., Erb, P., Stuebing, R. & Giman, B. (2009). The importance of secondary forest blocks for terrestrial mammals within an *Acacia*/secondary forest matrix in Sarawak, Malaysia. *Biol. Conserv.*, 142, 3108–3119
Mehta, R.S. & Burghardt, G.M. (2008). Contextual flexibility: reassessing the effects of prey

size and status on prey restraint behaviour of macrostomate snakes. *Ethology*, 114, 133–145
Meijer, S.S., Whittaker, R.J. & Borges, P.A. V. (2011). The effects of land-use change on arthropod richness and abundance on Santa Maria Island (Azores): unmanaged plantations favour endemic beetles. *J. Insect Conserv.*, 15, 505–522
Mendoza-Estrada, L.J., Lara López, R. & Castro-Franco, R. (2008). Dieta de *Lithobates zweifeli* Hillis, Frost Y Webb 1984 (Anura: Ranidae) en un río estacional del centro de México. *Acta Zoológica Mex.*, 24, 169–197
Menin, M., de Jesus Rodrigues, D. & de Azevedo, C.S. (2005). Predation on amphibians by spiders (Arachnida, Araneae) in the Neotropical region. *Phyllomedusa*, 4, 39–47
Meyer, B., Gaebele, V. & Steffan-Dewenter, I.D. (2007). Patch size and landscape effects on pollinators and seed set of the horseshoe vetch, hippocrepis comosa, in an agricultural landscape of central Europe. *Entomol. Gen.*, 30, 173–185
Meyer, B., Jauker, F. & Steffan-Dewenter, I. (2009). Contrasting resource-dependent responses of hoverfly richness and density to landscape structure. *Basic Appl. Ecol.*, 10, 178–186
Michener, C.D. (2000). *The Bees of the World*. Johns Hopkins University Press, Baltimore
Mico, E., Garcia-Lopez, A., Brustel, H., Padilla, A. & Galante, E. (2013). Explaining the saproxylic beetle diversity of a protected Mediterranean area. *Biodivers. Conserv.*, 22, 889–904
Milanovich, J.R., Trauth, S.E. & McKay, T. (2008). Diet of western slimy salamander, *Plethodon albagula* (Caudata: Plethodontidae), from two mountain ranges in Arkansas. *Southeast. Nat.*, 7, 323–330
Milder, J.C., DeClerck, F.A.J., Sanfiorenzo, A., Sanchez, D.M., Tobar, D.E. & Zuckerberg, B. (2010). Effects of farm and landscape management on bird and butterfly conservation in western Honduras. *Ecosphere*, 1, art2
Miranda, M.V., Politi, N. & Rivera, L.O. (2010). Unexpected changes in the bird assemblage in areas under selective logging in piedmont forest in northwestern Argentina. *Ornitol. Neotrop.*, 21, 323–337
Miss, J. & Reyes-Novelo, E. (2009). Observaciones sobre la biología del Maquech, Zopherus chilensis Gray, 1832 (Coleoptera: Zopheridae) en Yucatán, México. *Arq. Entomolóxicos*, 2, 7–17
Moir, M.L., Brennan, K.E.C., Koch, J.M., Majer, J.D. & Fletcher, M.J. (2005). Restoration of a forest ecosystem: The effects of vegetation and dispersal capabilities on the reassembly of plant-dwelling arthropods. *For. Ecol. Manage.*, 217, 294–306
Moreno-Barbosa, S.E. & Hoyos-Hoyos, J.M. (2014). Ontogeny of the diet in anurans (Amphibia) collected at La Vieja river basin in the deparmento of Quindio (Colombia). *Caldasia*, 36, 365–372
Moreno-Mateos, D., Rey Benayas, J.M., Perez-Camacho, L., de la Montana, E., Rebollo, S. & Cayuela, L. (2011). Effects of land use on nocturnal birds in a Mediterranean agricultural landscape. *Acta Ornithol.*, 46, 173–182
Morón, M.Á., Nogueira, G., Rojas-Gómez, C. V. & Arce-Pérez, R. (2014). Biodiversidad de Melolonthidae (Coleoptera) en México. *Rev. Mex. Biodivers.*, S85, S298–S302
Muchane, M.N., Karanja, D., Wambugu, G.M., Mutahi, J.M., Masiga, C.W., Mugoya, C., *et al.* (2012). Land use practices and their implications on soil macro-fauna in Maasai Mara ecosystem. *Int. J. Biodivers. Conserv.*, 4, 500–514
Mudri-Stojnic, S., Andric, A., Jozan, Z. & Vujic, A. (2012). Pollinator diversity (Hymenoptera and Diptera) in semi-natural habitats in Serbia during summer. *Arch. Biol. Sci.*, 64, 777–786
Muñoz-Guerrero, J., Serrano, V.H. & Ramirez-Pinilla, M.P. (2007). Uso de microhábitat, dieta y tiempo de actividad en cuatro especies simpátricas de ranas hílidas Neotropicales

(Anura: Hylidae). *Caldasia*, 29, 413–425
Munyekenye, F.B., Mwangi, E.M. & Gichuki, N.N. (2008). Bird species richness and abundance in different forest types at Kakamega Forest, western Kenya. *Ostrich*, 79, 37–42
Murphy, F. & Murphy, J. (2000). *An Introduction to the Spiders of South East Asia*. Malaysian Nature Society, Kuala Lumpur
Myhrvold, N.P., Baldridge, E., Chan, B., Freeman, D.L. & Ernest, S.K.M. (2015). An amniote life-history database to perform comparative analyses with birds, mammals, and reptiles. *Ecology*, 96, 3109
Naidoo, R. (2004). Species richness and community composition of songbirds in a tropical forest-agricultural landscape. *Anim. Conserv.*, 7, 93–105
Naithani, A. & Bhatt, D. (2012). Bird community structure in natural and urbanized habitats along an altitudinal gradient in Pauri district (Garhwal Himalaya) of Uttarakhand state, India. *Biologia (Bratisl).*, 67, 800–808
Nakagawa, M., Miguchi, H. & Nakashizuka, T. (2006). The effects of various forest uses on small mammal communities in Sarawak, Malaysia. *For. Ecol. Manage.*, 231, 55–62
Nakamori, T. & Suzuki, A. (2010). Spore resistance and gut-passage time of macrofungi consumed by *Ceratophysella denisana* (Collembola: Hypogastruridae). *Fungal Ecol.*, 3, 38–42
Nakamura, A., Proctor, H. & Catterall, C.P. (2003). Using soil and litter arthropods to assess the state of rainforest restoration. *Ecol. Manag. Restor.*, 4, S20–S28
Nakashima, Y., Inoue, E. & Akomo-Okoue, E.F. (2013). Population density and habitat preferences of forest duikers in Moukalaba-Doudou National Park, Gabon. *African Zool.*, 48, 395–399
Naoe, S., Sakai, S. & Masaki, T. (2012). Effect of forest shape on habitat selection of birds in a plantation-dominant landscape across seasons: comparison between continuous and strip forests. *J. For. Res.*, 17, 219–223
Navarrete, D. & Halffter, G. (2008). Dung beetle (Coleoptera: Scarabaeidae: Scarabaeinae) diversity in continuous forest, forest fragments and cattle pastures in a landscape of Chiapas, Mexico: the effects of anthropogenic changes. *Biodivers. Conserv.*, 17, 2869–2898
Navarro, I.L., Roman, A.K., Gomez, F.H. & Perez, H.A. (2011). Seasonal variation in dung beetles (Coleoptera: Scarabaeidae: Scarabaeinae) from Serrania de Coraza, Sucre (Colombia). *Rev. Colomb. Cienc. Anim.*, 3, 102–110
Ndang'ang'a, P.K., Njoroge, J.B.M. & Githiru, M. (2013). Vegetation composition and structure influences bird species community assemblages in the highland agricultural landscape of Nyandarua, Kenya. *Ostrich*, 84, 171–179
Neuschulz, E.L., Botzat, A. & Farwig, N. (2011). Effects of forest modification on bird community composition and seed removal in a heterogeneous landscape in South Africa. *Oikos*, 120, 1371–1379
Newton, A.F. & Franz, H. (1998). World catalog of the genera of Scydmaenidae (Coleoptera). *Koleopterol. Rundschau*, 68, 137–165
Ngai, J.T., Kirby, K.R., Gilbert, B., Starzomski, B.M., Pelletier, A.J.D. & Conner, J.C.R. (2008). The impact of land-use change on larval insect communities: testing the role of habitat elements in conservation. *Ecoscience*, 15, 160–168
Nicolas, V., Barriere, P., Tapiero, A. & Colyn, M. (2009). Shrew species diversity and abundance in Ziama Biosphere Reserve, Guinea: comparison among primary forest, degraded forest and restoration plots. *Biodivers. Conserv.*, 18, 2043–2061
Niedbała, W. & Górnośląskie, M. (2002). *Ptyctimous* mites (Acari, Oribatida) of the Nearctic region. *Monogr. Up. Silesian Museum*, 4, 1–261
Nielsen, A., Steffan-Dewenter, I., Westphal, C., Messinger, O., Potts, S.G., Roberts, S.P.M., *et al.* (2011). Assessing bee species richness in two Mediterranean communities: importance

of habitat type and sampling techniques. *Ecol. Res.*, 26, 969–983
Ningombam, B. & Bordoloi, S. (2007). Amphibian fauna of Loktak Lake, Manipur, India with ten new records for the state. *Zoos' Print J.*, 22, 2688–2690
Noreika, N. (2009). New records of rare species of Coleoptera found in Ukmergė district in 2004-2005. *New Rare Lith. Insect Species*, 21, 68–71
Noreika, N. & Kotze, D.J. (2012). Forest edge contrasts have a predictable effect on the spatial distribution of carabid beetles in urban forests. *J. Insect Conserv.*, 16, 867–881
Norfolk, O., Abdel-Dayem, M. & Gilbert, F. (2012). Rainwater harvesting and arthropod biodiversity within an arid agro-ecosystem. *Agric. Ecosyst. Environ.*, 162, 8–14
Noriega, J.A., Palacio, J.M., Monroy-G, J.D. & Valencia, E. (2012). Estructura de un ensamblaje de escarabajos coprofagos (Coleoptera: Scarabaeinae) en tres sitios con diferente uso del suelo en Antioquia, Colombia. *Actual. Biol.*, 34, 43–54
Noriega, J.A., Realpe, E. & Fagua, G. (2007). Diversidad de escarabajos coprofagos (Coleoptera: Scarabaeidae) en un bosque de galeria con tres estadios de alteracion. *Univ. Sci.*, 12, 51–63
Norval, G., Huang, S.-C., Mao, J.-J., Goldberg, S.R. & Slater, K. (2012). Additional notes on the diet of <i>Japalura swinhonis<i> (Agamidae) from southwestern Taiwan, with comments about its dietary overlap with the sympatric *Anolis sagrei* (Polychrotidae). *Basic Appl. Herpetol.*, 26, 87–97
Numa, C., Verdu, J.R., Rueda, C. & Galante, E. (2012). Comparing dung beetle species assemblages between protected areas and adjacent pasturelands in a Mediterranean savanna landscape. *Rangel. Ecol. Manag.*, 65, 137–143
Nyeko, P. (2009). Dung beetle assemblages and seasonality in primary forest and forest fragments on agricultural landscapes in Budongo, Uganda, 41, 476–484
O'Dea, N. & Whittaker, R.J. (2007). How resilient are Andean montane forest bird communities to habitat degradation? *Biodivers. Conserv.*, 16, 1131–1159
O'Farrell, P.J., Donaldson, J.S., Hoffman, M.T. & Mader, A.D. (2008). Small mammal diversity and density on the Bokkeveld escarpment, South Africa – implications for conservation and livestock predation. *Afr. Zool.*, 43, 117–124
Oertli, S., Muller, A. & Dorn, S. (2005). Ecological and seasonal patterns in the diversity of a species-rich bee assemblage (Hymenoptera: Apoidea: Apiformes). *Eur. J. Entomol.*, 102, 53–63
Ofori-Boateng, C., Oduro, W., Hillers, A., Norris, K., Oppong, S.K., Adum, G.B., *et al.* (2013). Differences in the effects of selective logging on amphibian assemblages in three West African forest types. *Biotropica*
Ohler, A., Wollenberg, K.C., Grosjean, S., Hendrix, R., Vences, M., Ziegler, T., *et al.* (2011). Sorting out *Lalos*: description of new species and additional taxonomic data on megophryid frogs from northern Indochina (genus *Leptolalax*, Megophryidae, Anura). *Zootaxa*, 3147, 1–83
Oliveira, D.E., Carrijo, T.F. & Brandão, D. (2013). Species composition of termites (Isoptera) in different Cerrado vegetation physiognomies. *Sociobiology*, 60, 190–197
Oliveira, L.J., Garcia, M.A., Hoffmann-Campo, C.B. & do Amaral, M.L.B. (2007). Feeding and oviposition preference of *Phyllophaga cuyabana* (Moser) (Coleoptera: Melolonthidae) on several crops. *Neotrop. Entomol.*, 36, 759–764
Olsen, J., Wink, M., Sauer-Gürth, H. & Trost, S. (2002). A new *Ninox* owl from Sumba, Indonesia. *Emu*, 102, 223–231
Olson, C.A., Beard, K.H. & Pitt, W.C. (2012). Biology and impacts of Pacific Island invasive species. 8. *Eleutherodactylus planirostris*, the greenhouse frog (Anura: Eleutherodactylidae). *Pacific Sci.*, 66, 255–270
Olson, D.M., Dinerstein, E., Wikramanayake, E.D., Burgess, N.D., Powell, G.V.N.,

Underwood, E.C., *et al.* (2001). Terrestrial ecoregions of the world: a new map of life on Earth. *Bioscience*, 51, 933–938
Ortega, D.R.M., Nagahama, R.H., Motta, P.C. & Bertani, R. (2013). Three new species of *Fufius* Simon, 1888 (Araneae, Cyrtaucheniidae) from Brazil with the redescription of *Fufius funebris* Vellard, 1924 and description of the female of *Fufius lucasae* Guadanucci & Indicatti, 2004. *Zookeys*, 352, 93–116
Ortega, J.E., Monares-Riaño, J.M. & Ramírez-Pinilla, M.P. (2009). Reproductive activity, diet, and microhabitat use in *Bolitoglossa nicefori* (Caudata: Plethodontidae). *J. Herpetol.*, 43, 1–10
Ortiz, M.F., Nieto-Montes de Oca, A. & Ugarte, I.H.S. (2001). Diet and reproductive biology of the viviparous lizard *Sceloporus torquatus torquatus* (Squamata: Phrynosomatidae). *J. Herpetol.*, 35, 104–112
Osgathorpe, L.M., Park, K. & Goulson, D. (2012). The use of off-farm habitats by foraging bumblebees in agricultural landscapes: implications for conservation management. *Apidologie*, 43, 113–127
Otavo, S.E., Parrado-Rosselli, A. & Noriega, J.A. (2013). Scarabaeoidea superfamily (Insecta: Coleoptera) as a bioindicator element of anthropogenic disturbance in an Amazon national park. *Rev. Biol. Trop.*, 61, 735–752
Ott, R. (2012). *Neodrassex*, a new genus of the *Leptodrassex* group (Araneae, Gnaphosidae) from South America. *Iheringia, Série Zool.*, 102, 343–350
Ott, R., Rodrigues, E.N.L. & Brescovit, A.D. (2012). Seven new species of *Latonigena* (Araneae, Gnaphosidae) from South America. *Iheringia, Série Zool.*, 102, 227–238
Owiunji, I. & Plumptre, A.J. (1998). Bird communities in logged and unlogged compartments in Budongo Forest, Uganda. *For. Ecol. Manage.*, 108, 115–126
Özden, Ö., Ciesla, W.M., Fuller, W.J. & Hodgson, D.J. (2008). Butterfly diversity in Mediterranean islands and in Pentadaktylos Pinus brutia forests of Cyprus. *Biodivers. Conserv.*, 17, 2821–2832
Pacheco, J.F. & Gonzaga, L.P. (1995). A new species of *Synallaxis* of the *ruficapilla*/*infuscata* complex from eastern Brazil (Passeriformes: Furnariidae). *Ararajuba*, 3, 3–11
Pacheco, J.F., Whitney, B.M. & Gonzaga, L.P. (1996). A new genus and species of Furnariid (Aves: Furnariidae) from the cocoa-growing region of Southeastern Bahia, Brazil. *Wilson Bull.*, 108, 397–606
Pan, H., Liu, Y., Liu, B., Lu, Y., Xu, X., Qian, X., *et al.* (2014). Lethal and sublethal effects of cycloxaprid, a novel cis-nitromethylene neonicotinoid insecticide, on the mirid bug *Apolygus lucorum*. *J. Pest Sci.*, 87, 731–738
Panizzi, A. & Parra, J.R.P. (2012). *Insect bioecology and nutrition for integrated pest management*. CRC Press, Boca Raton, Florida, USA
Paradis, S. & Work, T.T. (2011). Partial cutting does not maintain spider assemblages within the observed range of natural variability in Eastern Canadian black spruce forests. *For. Ecol. Manage.*, 262, 2079–2093
Paritsis, J. & Aizen, M.A. (2008). Effects of exotic conifer plantations on the biodiversity of understory plants, epigeal beetles and birds in *Nothofagus dombeyi* forests. *For. Ecol. Manage.*, 255, 1575–1583
Parra-H, A. & Nates-Parra, G. (2007). Variation of the orchid bees community (Hymenoptera : Apidae) in three altered habitats of the Colombian “llano” piedmont. *Rev. Biol. Trop.*, 55, 931–941
Parry, L., Barlow, J. & Peres, C.A. (2009). Hunting for sustainability in tropical secondary forests. *Conserv. Biol.*, 23, 1270–1280
Pekár, S. & Jarab, M. (2011). Life-history constraints in inaccurate Batesian

myrmecomorphic spiders (Araneae: Corinnidae, Gnaphosidae). *Eur. J. Entomol.*, 108, 255–260
Pelegrin, N. & Bucher, E.H. (2012). Effects of habitat degradation on the lizard assemblage in the Arid Chaco, central Argentina. *J. Arid Environ.*, 79, 13–19
Peredo, L.C. (2004). *Alloeorhynchus trimacula* (Stein)(Heteroptera: Nabidae: Prostemmatinae), a predator of Rhyparochromidae (Lygaeoidea) associated with figs in Mexico. *Proc. Entomol. Soc. Washingt.*, 106, 346–351
Peres, C.A. & Nascimento, H.S. (2006). Impact of game hunting by the Kayapo of south-eastern Amazonia: implications for wildlife conservation in tropical forest indigenous reserves. *Biodivers. Conserv.*, 15, 2627–2653
Pérez-Iñigo, C. (1993). *Fauna Iberica, Volume 3: Acari: Oribatei, Poronota*. Museo Nacional de Ciencias Naturales, Madrid
Pérez-Iñigo, C. (1997). *Fauna Iberica, Volume 9: Acari: Oribatei, Gymnota I*. Museo Nacional de Ciencias Naturales, Madrid
Peri, P.L., Lencinas, M.V., Pastur, G.M., Wardell-Johnson, G.W. & Lasagno, R. (2013). Diversity patterns in the steppe of Argentinean southern Patagonia: environmental drivers and impact of grazing. In: *Steppe ecosystems: biological diversity, management and restoration* (ed. Morales Prieto, M.B. and T.D.J.). Nova Science Publishers Inc, New York, p. 346
Peters, M.K., Fischer, G., Schaab, G. & Kraemer, M. (2009). Species compensation maintains abundance and raid rates of African swarm-raiding army ants in rainforest fragments. *Biol. Conserv.*, 142, 668–675
Peters, M.K., Lung, T., Schaab, G. & Waegele, J.-W. (2011). Deforestation and the population decline of the army ant Dorylus wilverthi in western Kenya over the last century. *J. Appl. Ecol.*, 48, 697–705
Pethiyagoda Rohan S., J. & Manamendra-Arachchi, K. (2012). Endangered anurans in a novel forest in the highlands of Sri Lanka. *Wildl. Res.*, 39, 641–648
Phalan, B., Onial, M., Balmford, A. & Green, R.E. (2011). Reconciling food production and biodiversity conservation: land sharing and land sparing compared. *Science*, 333, 1289–1291
Phillips, I.D., Cobb, T.P. & Spence, J.R. (2008). Salvage logging and edge effects on pill beetle abundance (Coleoptera: Byrrhidae). *Coleopt. Bull.*, 62, 324–327
Pickard-Cambridge, F.O. (1905). *Arachnida, Araneidea and Opiliones. Volume II*. R. H. Porter, London
Pimenta, H.R. & Martins, R.P. (1999). The natural history of the neotropical sand wasp *Rubrica nasuta* (Christ 1791) (Hymenoptera Sphecidae) in Brazil. *Trop. Zool.*, 12, 273–288
Pineda, E. & Halffter, G. (2004). Species diversity and habitat fragmentation: frogs in a tropical montane landscape in Mexico. *Biol. Conserv.*, 117, 499–508
Pizzatto, L., Marques, O.A. V & Facure, K. (2009). Food habits of Brazilian boid snakes: overview and new data, with special reference to *Corallus hortulanus*. *Amphibia-Reptilia*, 30, 533–544
Platnick, N.I. (1983). On the Gnaphosidae (Arachnida, Araneae) of the California Channel Islands. *J. Arachnol.*, 11, 453–455
Platnick, N.I. & Dondale, C.D. (1992). *The Insects and Arachnids of Canada. Part 19. The Ground Spiders of Canada and Alaska (Araneae: Gnaphosidae)*. Agriculture Canada, Ottawa
Polilov, A.A. (2008). Anatomy of the smallest Coleoptera, featherwing beetles of the tribe Nanosellini (Coleoptera, Ptiliidae), and limits of insect miniaturization. *Entomol. Rev.*, 88, 26–33
Politi, N., Hunter Jr., M. & Rivera, L. (2012). Assessing the effects of selective logging on birds in Neotropical piedmont and cloud montane forests. *Biodivers. Conserv.*, 21, 3131–3155

Pombal Jr., J.P., Bilate, M., Gambale, P.G., Signorelli, L. & Bastos, R.P. (2011). A new miniature treefrog of the *Scinax ruber* clade from the cerrado of central Brazil (Anura: Hylidae). *Herpetologica*, 67, 288–299
Pons, P. & Wendenburg, C. (2005). The impact of fire and forest conversion into savanna on the bird communities of West Madagascan dry forests. *Anim. Conserv.*, 8, 183–193
Poveda, K., Martinez, E., Kersch-Becker, M.F., Bonilla, M.A. & Tscharntke, T. (2012). Landscape simplification and altitude affect biodiversity, herbivory and Andean potato yield. *J. Appl. Ecol.*, 49, 513–522
Power, E.F. & Stout, J.C. (2011). Organic dairy farming: impacts on insect-flower interaction networks and pollination. *J. Appl. Ecol.*, 48, 561–569
Pratt, H.D., Bruner, P.L. & Berrett, D.G. (1987). *A Field Guide to the Birds of Hawaii and the Tropical Pacific*. Princeton University Press, Princeton
Presley, S.J., Willig, M.R., Wunderle Jr., J.M. & Saldanha, L.N. (2008). Effects of reduced-impact logging and forest physiognomy on bat populations of lowland Amazonian forest. *J. Appl. Ecol.*, 45, 14–25
Preston-Mafham, R. & Preston-Mafham, K. (1984). *Spiders of the World*. Blandford Press, London
Proenca, V.M., Pereira, H.M., Guilherme, J. & Vicente, L. (2010). Plant and bird diversity in natural forests and in native and exotic plantations in NW Portugal. *Acta Oecologica*, 36, 219–226
Quaranta, M., Ambroselli, S., Barro, P., Bella, S., Carini, A., Celli, G., *et al.* (2004). Wild bees in agroecosystems and semi-natural landscapes. 1997-2000 collection period in Italy. *Bull. Insectology*, 57, 11–62
Quintero, C., Morales, C.L. & Aizen, M.A. (2010). Effects of anthropogenic habitat disturbance on local pollinator diversity and species turnover across a precipitation gradient. *Biodivers. Conserv.*, 19, 257–274
Quiroga, M., De Sousa, L. & Parrilla-Alvarez, P. (2000). The description of *Tityus caripitensis*. A new Venezuelan scorpion (Scorpionida, Buthidae). *J. Venom. Anim. Toxins*, 6, 99–117
Quiroga, M., De Sousa, L., Parrilla-Álvarez, P. & Manzanilla, J. (2004). The first report of Tityus (Scorpiones: Buthidae) in Anzoátegui state, Venezuela. A new species. *J. Venom. Anim. Toxins Incl. Trop. Dis.*, 10, 10–33
Rader, R., Bartomeus, I., Tylianakis, J.M. & Laliberte, E. (2014). The winners and losers of land use intensification: pollinator community disassembly is non-random and alters functional diversity. *Divers. Distrib.*, 20, 908–917
Raffaele, H., Wiley, J., Garrido, O., Keith, A. & Raffaele, J. (1998). *Birds of the West Indies*. Christopher Helm, London
Ramírez, M. (2003). The spider subfamily Amaurobioidinae (Araneae, Anyphaenidae): a phylogenetic revision at the generic level. *Bull. Am. Museum Nat. Hist.*, 277, 1–262
Rasmussen, P.C., Round, P.D., Dickinson, E.C. & Rozendaal, F.G. (2000). A new bush-warbler (Sylviidae, *Bradypterus*) from Taiwan. *Auk*, 117, 279–289
Raub, F., Hoefer, H., Scheuermann, L. & Brandl, R. (2014). The conservation value of secondary forests in the southern Brazilian Mata Atlantica from a spider perspective. *J. Arachnol.*, 42, 52–73
Rebouças, R., Castro, I.M. & Solé, M. (2013). Diet of *Haddadus binotatus* (Spix, 1824) (Anura: Craugastoridae) in Brazilian Atlantic rainforest, Bahia state. *North. West. J. Zool.*, 9, 293–299
Reid, J.L., Harris, J.B.C. & Zahawi, R.A. (2012). Avian habitat preference in tropical forest restoration in southern Costa Rica. *Biotropica*, 44, 350–359
Reis, Y.T. & Cancello, E.M. (2007). Termite (Insecta, Isoptera) richness in primary and

secondary Atlantic Forest in southeastern Bahia. *Iheringia Ser. Zool.*, 97, 229–234
Rey-Benayas, J.M., Galvan, I. & Carrascal, L.M. (2010). Differential effects of vegetation restoration in Mediterranean abandoned cropland by secondary succession and pine plantations on bird assemblages. *For. Ecol. Manage.*, 260, 87–95
Rey-Velasco, J.C. & Miranda-Esquivel, D.R. (2012). *Unpublished data of the response of ground beetles (Coleoptera: Carabidae) in the northeastern Colombian Andes to habitat modification*
Reynolds, C. & Symes, C.T. (2013). Grassland bird response to vegetation structural heterogeneity and clearing of invasive bramble. *African Zool.*, 48, 228–239
Ribeiro, D.B. & Freitas, A.V.L. (2012). The effect of reduced-impact logging on fruit-feeding butterflies in Central Amazon, Brazil. *J. Insect Conserv.*, 16, 733–744
Richardson, B.A., Richardson, M.J. & Soto-Adames, F.N. (2005). Separating the effects of forest type and elevation on the diversity of litter invertebrate communities in a humid tropical forest in Puerto Rico. *J. Anim. Ecol.*, 74, 926–936
Ridgely, R.S. & Gwynne, J.A. (1989). *A Guide to the Birds of Panama with Costa Rica, Nicaragua, and Honduras*. Princeton University Press, Princeton
Ridgely, R.S. & Tudor, G. (1989). *The Birds of South America, Volume 1: The Oscine Passerines*. University of Texas Press, Austin, Texas
Roberts, M.J. (1985). *The Spiders of Great Britain and Ireland*. Harley Books, Colchester, United Kingdom
Roberts, M.J. (1995). *Spiders of Great Britain and Northern Europe*. Harper Collins, New York
Robertson, J.A., Ślipiński, A., Hiatt, K., Miller, K.B., Whiting, M.F. & McHugh, J. V. (2013). Molecules, morphology and minute hooded beetles: a phylogenetic study with implications for the evolution and classification of Corylophidae (Coleoptera: Cucujoidea). *Syst. Entomol.*, 38, 209–232
Robson, C. (2000). *A Guide to the Birds of Southeast Asia, Thailand, Peninsular Malaysia, Singapore, Myanmar, Laos, Vietnam, Cambodia*. Princeton University Press, Princeton
da Rocha-Santos, G., Barbier, E. & Bordignon, M.O. (2014). Sweet trap: *Boa constrictor* (Serpentes: Boidae) preying on passerines on *Cecropia pachystachya* (Urticales: Cecropiaceae) in fruiting period. *Biota Neotrop.*, 2, e20140003
Rodrigues, M.M., Uchoa, M.A. & Ide, S. (2013). Dung beetles (Coleoptera: Scarabaeoidea) in three landscapes in Mato Grosso do Sul, Brazil. *Brazilian J. Biol.*, 73, 211–220
Rodríguez, A., Poth, D., Schulz, S. & Vences, M. (2011). Discovery of skin alkaloids in a miniaturized eleutherodactylid frog from Cuba. *Biol. Lett.*, 7, 414–418
Römbke, J., Schmidt, P. & Höfer, H. (2009). The earthworm fauna of regenerating forests and anthropogenic habitats in the coastal region of Paraná. *Pesqui. Agropecu. Bras.*, 44, 1040–1049
Roth, D.S., Perfecto, I. & Rathcke, B. (1994). The effects of management systems on ground-foraging ant diversity in Costa Rica. *Ecol. Appl.*, 4, 423–436
Rousseau, L., Fonte, S.J., Tellez, O., van der Hoek, R. & Lavelle, P. (2013). Soil macrofauna as indicators of soil quality and land use impacts in smallholder agroecosystems of western Nicaragua. *Ecol. Indic.*, 27, 71–82
Rowley, I., Russell, E. & Marsack, P. (1997). *Fairy-Wrens and Grasswrens*. Oxford University Press, Oxford
Rubio, A. V & Simonetti, J.A. (2011). Lizard assemblages in a fragmented landscape of central Chile. *Eur. J. Wildl. Res.*, 57, 195–199
Ruibal, M. & Laufer, G. (2012). Bullfrog *Lithobates catesbeianus* (Amphibian: Ranidae) tadpole diet: description and analysis for three invasive populations in Uruguay. *Amphibia-Reptilia*, 33, 355–363

Ryan, P.G. & Bloomer, P. (1999). The long-billed lark complex: a species mosaic in southwestern Africa. *Auk*, 116, 194–208
Safian, S., Csontos, G. & Winkler, D. (2011). Butterfly community recovery in degraded rainforest habitats in the Upper Guinean Forest Zone (Kakum forest, Ghana). *J. Insect Conserv.*, 15, 351–359
Saito, M., Shimoda, T., Goto, C., Nomura, M. & Yano, E. (2005). Effects of plants on the foraging behavior of polyphagous natural enemies, *Piocoris varius* (Uhler) and *Geocoris proteus* Distant (Hemiptera: Lygaeidae). *Japanese J. Appl. Entomol. Zool.*, 49, 231–236
Sakchoowong, W., Nomura, S., Ogata, K. & Chanpaisaeng, J. (2008). Diversity of pselaphine beetles (Coleoptera: Staphylinidae: Pselaphinae) in eastern Thailand. *Entomol. Sci.*, 11, 301–313
Saldana-Vazquez, R.A., Sosa, V.J., Hernandez-Montero, J.R. & Lopez-Barrera, F. (2010). Abundance responses of frugivorous bats (Stenodermatinae) to coffee cultivation and selective logging practices in mountainous central Veracruz, Mexico. *Biodivers. Conserv.*, 19, 2111–2124
Sam, K., Koane, B., Jeppy, S. & Novotny, V. (2014). Effect of forest fragmentation on bird species richness in Papua New Guinea. *J. F. Ornithol.*, 85, 152–167
Samnegård, U., Persson, A.S. & Smith, H.G. (2011). Gardens benefit bees and enhance pollination in intensively managed farmland. *Biol. Conserv.*, 144, 2602–2606
Santana, J., Porto, M., Gordinho, L., Reino, L. & Beja, P. (2012). Long-term responses of Mediterranean birds to forest fuel management. *J. Appl. Ecol.*, 49, 632–643
Sasa, M. & Monrós, J.S. (2000). Dietary analysis of helmeted basilisks, *Corytophanes* (Reptilia: Corytophanidae). *Southwest. Nat.*, 45, 358–361
de Sassi, C., Lewis, O.T. & Tylianakis, J.M. (2012). Plant-mediated and nonadditive effects of two global change drivers on an insect herbivore community. *Ecology*, 93, 1892–1901
Savage, J., Wheeler, T.A., Moores, A.M.A. & Taillefer, A.G. (2011). Effects of habitat size, vegetation cover, and surrounding land use on Diptera diversity in temperate Nearctic bogs. *Wetlands*, 31, 125–134
Savage, J.M. & Myers, C. (2002). Frogs of the *Eleutherodactylus biporcatus* group (Leptodactylidae) of Central America and northern South America, including rediscovered, resurrected, and new taxa. *Am. Museum Novit.*, 3357, 1–48
Schilthuizen, M., Liew, T.S., Bin Elahan, B. & Lackman-Ancrenaz, I. (2005). Effects of karst forest degradation on pulmonate and prosobranch land snail communities in Sabah, Malaysian Borneo. *Conserv. Biol.*, 19, 949–954
Schodde, R. & Tidemann, S. (1986). *Complete Book of Australian Birds*. Reader's Digest, Sydney
Schon, N.L., Mackay, A.D., Minor, M.A., Yeates, G.W. & Hedley, M.J. (2008). Soil fauna in grazed New Zealand hill country pastures at two management intensities. *Appl. Soil Ecol.*, 40, 218–228
Schon, N.L., Mackay, A.D., Yeates, G.W. & Minor, M.A. (2010). Separating the effects of defoliation and dairy cow treading pressure on the abundance and diversity of soil invertebrates in pastures. *Appl. Soil Ecol.*, 46, 209–221
Schüepp, C., Herrmann, J.D., Herzog, F. & Schmidt-Entling, M.H. (2011). Differential effects of habitat isolation and landscape composition on wasps, bees, and their enemies. *Oecologia*, 165, 713–721
Schüepp, C., Rittiner, S. & Entling, M.H. (2012). High bee and wasp diversity in a heterogeneous tropical farming system compared to protected forest. *PLoS One*, 7, e52109
Schuh, R. (2012). Colydiinae (Coleoptera: Zopheridae) of Socotra Island. *Acta Entomol. Musei Natl. Pragae*, 52, S287–S294
Scott, D.M., Brown, D., Mahood, S., Denton, B., Silburn, A. & Rakotondraparany, F. (2006).

The impacts of forest clearance on lizard, small mammal and bird communities in the arid spiny forest, southern Madagascar. *Biol. Conserv.*, 127, 72–87
Sedlock, J.L., Weyandt, S.E., Cororan, L., Damerow, M., Hwa, S.-H. & Pauli, B. (2008). Bat diversity in tropical forest and agro-pastoral habitats within a protected area in the Philippines. *Acta Chiropterologica*, 10, 349–358
Serle, W., Morel, G.J. & Hartwig, W. (1988). *The Collins Field Guide to the Birds of West Africa*. Collins, London
Shafie, N.J., Sah, S.A.M., Latip, N.S.A., Azman, N.M. & Khairuddin, N.L. (2011). Diversity pattern of bats at two contrasting habitat types along Kerian River, Perak, Malaysia. *Trop. Life Sci. Res.*, 22, 13–22
Shahabuddin, G. & Kumar, R. (2007). Effects of extractive disturbance on bird assemblages, vegetation structure and floristics in tropical scrub forest, Sariska Tiger Reserve, India. *For. Ecol. Manage.*, 246, 175–185
Shahriza, S., Ibrahim, H.J. & Shahrul Anuar, M.S. (2010). The correlation between total rainfall and breeding parameters of white-lipped frog, *Rana labialis* (Anura: Ranidae) in Kedah, Malaysia. *Trop. Nat. Hist.*, 10, 131–139
Sheldon, F.H., Styring, A. & Hosner, P.A. (2010). Bird species richness in a Bornean exotic tree plantation: a long-term perspective. *Biol. Conserv.*, 143, 399–407
Shepard, D.B. & Caldwell, J.P. (2005). From foam to free-living: ecology of larval *Leptodactylus labyrinthicus*. *Copeia*, 2005, 803–811
Shirihai, H., Gargallo, G., Helbig, A., Harris, A. & Cottridge, D. (2001). *Sylvia Warblers: Identification, Taxonomy and Phylogeny of the Genus* Sylvia. Christopher Helm, London
Shochat, E., Stefanov, W.L., Whitehouse, M.E.A. & Faeth, S.H. (2004). Urbanization and spider diversity: Influences of human modification of habitat structure and productivity. *Ecol. Appl.*, 14, 268–280
Shuler, R.E., Roulston, T.H. & Farris, G.E. (2005). Farming practices influence wild pollinator populations on squash and pumpkin. *J. Econ. Entomol.*, 98, 790–795
da Silva, E.T., dos Reis, E.P., Feio, R.N. & Filho, O.P.R. (2009). Diet of the invasive frog *Lithobates catesbeianus* (Shaw, 1802) (Anura : Ranidae) in Viçosa, Minas Gerais State, Brazil. *South Am. J. Herpetol.*, 4, 286–294
Silva, F.A.B., Costa, C.M.Q., Moura, R.C. & Farias, A.I. (2010). Study of the dung beetle (Coleoptera: Scarabaeidae) community at two sites: Atlantic Forest and clear-cut, Pernambuco, Brazil. *Environ. Entomol.*, 39, 359–367
da Silva, P.G. (2011). Espécies de Scarabaeinae (Coleoptera: Scarabaeidae) de fragmentos florestais com diferentes níveis de alteração em Santa Maria, Rio Grande do Sul. Masters Thesis, Universidade Federal de Santa Maria, Santa Maria
Simóes, P.I. (2010). Diversificação do complexo *Allobates femoralis* (Anura, Dendrobatidae) em florestas da Amazônia brasileira: desvendando padrões atuais e históricos. PhD Thesis, Instituto Nacional de Pesquisas da Amazônia
Sinclair, I. & Langrand, O. (1998). *Birds of the Indian Ocean Islands: Madagascar, Mauritius, Réunion, Rodrigues, Seychelles and the Comoros*. Struik, Cape Town
Skerrett, A., Disley, T. & Bullock, I. (2001). *Birds of Seychelles*. Christopher Helm, London
Slade, E.M., Mann, D.J. & Lewis, O.T. (2011). Biodiversity and ecosystem function of tropical forest dung beetles under contrasting logging regimes. *Biol. Conserv.*, 144, 166–174
Ślipiński, A., Tomaszewska, W. & Lawrence, J.F. (2009). Phylogeny and classification of Corylophidae (Coleoptera: Cucujoidea) with descriptions of new genera and larvae. *Syst. Entomol.*, 34, 409–433
Smith-Pardo, A. & Gonzalez, V.H. (2007). Diversidad de abejas (Hymenoptera: Apoidea) en estados sucesionales del bosque humedo tropical. *Acta Biológica Colomb.*, 12, 43–55
Soh, M.C.K., Sodhi, N.S. & Lim, S.L.-H. (2006). High sensitivity of montane bird

communities to habitat disturbance in Peninsular Malaysia. *Biol. Conserv.*, 129, 149–166
Sosa, R.A., Benz, V.A., Galea, J.M. & Poggio Herrero, I. V. (2010). Efecto del grado de disturbio sobre el ensamble de aves en la reserva provincial Parque Luro, La Pampa, Argentina. *Rev. la Asoc. Argentina Ecol. Paisajes*, 1, 101–110
de Souza, T.B., Maia, A.C.D., Schlindwein, C., de Albuquerque, L.S.C. & Iannuzzi, L. (2014). The life of *Cyclocephala celata* Dechambre, 1980 (Coleoptera: Scarabaeidae: Dynastinae) in captivity with descriptions of the immature stages. *J. Nat. Hist.*, 48, 275–283
de Souza, V.M., de Souza, B. & Morato, E.F. (2008). Effect of the forest succession on the anurans (Amphibia: Anura) of the Reserve Catuaba and its periphery, Acre, southwestern Amazonia. *Rev. Bras. Zool.*, 25, 49–57
Sridhar, H., Raman, T.R.S. & Mudappa, D. (2008). Mammal persistence and abundance in tropical rainforest remnants in the southern Western Ghats, India. *Curr. Sci.*, 94, 748–757
Stevenson, T. & Fanshawe, J. (2002). *Field Guide to the Birds of East Africa: Kenya, Tanzania, Uganda, Rwanda, Burundi*. T. & A. D. Poyser, London
Stiles, G., Skutch, A.F. & Gardner, D. (1989). *A Guide to the Birds of Costa Rica*. Cornell University Press, Ithaca, New York
Stouffer, P.C., Johnson, E.I., Bierregaard Jr., R.O. & Lovejoy, T.E. (2011). Understory bird communities in Amazonian rainforest fragments: species turnover through 25 years post-isolation in recovering landscapes. *PLoS One*, 6, e20543
Straw, N.A., Tilbury, C., Fielding, N.J., Williams, D.T. & Cull, T. (2015). Timing and duration of the life cycle of Asian longhorn beetle *Anoplophora glabripennis* (Coleoptera: Cerambycidae) in southern England. *Agric. For. Entomol.*, 17, 400–411
Ström, L., Hylander, K. & Dynesius, M. (2009). Different long-term and short-term responses of land snails to clear-cutting of boreal stream-side forests. *Biol. Conserv.*, 142, 1580–1587
Stuart, B.L., Chuaynkern, Y., Chan-ard, T. & Inger, R.F. (2006). Three new species of frogs and a new tadpole from eastern Thailand. *Fieldiana Zool. New Ser.*, 111, 1–19
Su, M.-Y., Kam, Y.-C. & Fellers, G.M. (2005). Effectiveness of amphibian monitoring techniques in a Taiwanese subtropical forest. *Herpetol. J.*, 15, 73–79
Su, Z.M., Zhang, R.Z. & Qiu, J.X. (2011). Decline in the diversity of willow trunk-dwelling weevils (Coleoptera: Curculionoidea) as a result of urban expansion in Beijing, China. *J. Insect Conserv.*, 15, 367–377
Suarez-Rubio, M. & Thomlinson, J.R. (2009). Landscape and patch-level factors influence bird communities in an urbanized tropical island. *Biol. Conserv.*, 142, 1311–1321
Sugai, J.L.M.M., Terra, J. de S. & Ferreira, V.L. (2012). Diet of *Leptodactylus fuscus* (Amphibia: Anura: Leptodactylidae) in the Pantanal of Miranda river, Brazil. *Biota Neotrop.*, 12, 99–104
Sugiura, S., Tsuru, T., Yamaura, Y. & Makihara, H. (2009). Small off-shore islands can serve as important refuges for endemic beetle conservation. *J. Insect Conserv.*, 13, 377–385
Summerville, K.S. (2011). Managing the forest for more than the trees: effects of experimental timber harvest on forest Lepidoptera. *Ecol. Appl.*, 21, 806–816
Summerville, K.S., Conoan, C.J. & Steichen, R.M. (2006). Species traits as predictors of lepidopteran composition in restored and remnant tallgrass prairies. *Ecol. Appl.*, 16, 891–900
Summerville, K.S. & Crist, T.O. (2002). Effects of timber harvest on forest Lepidoptera: community, guild and species responses. *Ecol. Appl.*, 12, 820–835
Sung, Y.H., Karraker, N.E. & Hau, B.C.H. (2012). Terrestrial herpetofaunal assemblages in secondary forests and exotic *Lophostemon confertus* plantations in South China. *For. Ecol. Manage.*, 270, 71–77
Sunyer, J., Páiz, G., Dehling, D.M. & Köhler, G. (2009). A collection of amphibians from Río San Juan, southeastern Nicaragua. *Herpetol. Notes*, 2, 189–202

Teixeira, R.L., Vrcibradic, D. & Almeida, G.I. (2006). Food habits of *Stereocyclops incrassatus* (Anura, Microhylidae) from Povoação, Espírito Santo State, southeastern Brazil. *Bol. Do Mus. Biol. Mello Leitão. Nov. Série*, 19, 53–58
de Thoisy, B., Richard-Hansen, C., Goguillon, B., Joubert, P., Obstancias, J., Winterton, P., *et al.* (2010). Rapid evaluation of threats to biodiversity: human footprint score and large vertebrate species responses in French Guiana. *Biodivers. Conserv.*, 19, 1567–1584
Threlfall, C.G., Law, B. & Banks, P.B. (2012). Sensitivity of insectivorous bats to urbanization: implications for suburban conservation planning. *Biol. Conserv.*, 146, 41–52
Tillman, P.G. & Mullinix, B.G. (2003). Effect of prey species on plant feeding behavior by the big-eyed bug, *Geocoris punctipes* (Say) (Heteroptera: Geocoridae), on cotton. *Environ. Entomol.*, 32, 1399–1403
Tocher, M.D. (2003). The diet of grand skinks (*Oligosoma grande*) and Otago skinks (*O. otagense*) in Otago seral tussock grasslands. *New Zeal. J. Zool.*, 30, 243–257
Toft, C.A. (1995). Evolution of diet specialization in poison-dart frogs (Dendrobatidae). *Herpetologica*, 51, 202–216
Tonietto, R., Fant, J., Ascher, J., Ellis, K. & Larkin, D. (2011). A comparison of bee communities of Chicago green roofs, parks and prairies. *Landsc. Urban Plan.*, 103, 102–108
Troukens, W. (2013). *Colydium elongatum* (Coleoptera: Zopheridae) in België en in het omliggend gebied. *Phegea*, 41, 01.ix.2013: 58
Turner, A. & Rose, C. (1989). *A Handbook to the Swallows and Martins of the World*. Christopher Helm, London
Turner, E.C. & Foster, W.A. (2009). The impact of forest conversion to oil palm on arthropod abundance and biomass in Sabah, Malaysia. *J. Trop. Ecol.*, 25, 23–30
Tylianakis, J.M., Klein, A.-M. & Tscharntke, T. (2005). Spatiotemporal variation in the diversity of Hymenoptera across a tropical habitat gradient. *Ecology*, 86, 3296–3302
Urban, J.M., Bartlett, C.R. & Cryan, J.R. (2010). Evolution of Delphacidae (Hemiptera: Fulgoroidea): combined-evidence phylogenetics reveals importance of grass host shifts. *Syst. Entomol.*, 35, 678–691
Urbina-Cardona, J.N., Londoño-Murcia, M.C. & García-Ávila, D.G. (2008). Spatio-temporal dymanics of snake diversity in four habitats with different degrees of anthropogenic disturbance in the Gorgona Island National Natural Park in the Colombian Pacific. *Caldasia*, 30, 479–493
Urbina-Cardona, J.N., Olivares-Perez, M. & Reynoso, V.H. (2006). Herpetofauna diversity and microenvironment correlates across a pasture-edge-interior ecotone in tropical rainforest fragments in the Los Tuxtlas Biosphere Reserve of Veracruz, Mexico. *Biol. Conserv.*, 132, 61–75
Valderrama-Vernaza, M., Ramírez-Pinilla, M.P. & Serrano-Cardozo, V.H. (2009). Diet of the Andean frog Ranitomeya virolinensis (Athesphatanura: Dendrobatidae). *J. Herpetol.*, 43, 114–123
Vallan, D. (2002). Effects of anthropogenic environmental changes on amphibian diversity in the rain forests of eastern Madagascar. *J. Trop. Ecol.*, 725–742
Vanbergen, A.J., Woodcock, B.A., Watt, A.D. & Niemela, J. (2005). Effect of land-use heterogeneity on carabid communities at the landscape scale. *Ecography*, 28, 3–16
Vasconcelos, H.L. (1999). Effects of forest disturbance on the structure of ground-foraging ant communities in central Amazonia. *Biodivers. Conserv.*, 8, 409–420
Vasconcelos, H.L., Pacheco, R., Silva, R.C., Vasconcelos, P.B., Lopes, C.T., Costa, A.N., *et al.* (2009). Dynamics of the leaf-litter arthropod fauna following fire in a Neotropical woodland savanna. *PLoS One*, 4, e7762
Vasconcelos, H.L., Vilhena, J.M.S. & Caliri, G.J.A. (2000). Responses of ants to selective logging of a central Amazonian forest. *J. Appl. Ecol.*, 37, 508–514

Vázquez, D.P. & Simberloff, D. (2002). Ecological specialization and susceptibility to disturbance: conjectures and refutations. *Am. Nat.*, 159, 606–623
Vences, M., Glaw, F. & Zapp, C. (1999). Stomach content analyses in Malagasy frogs of the genera *Tomopterna*, *Aglyptodactylus*, *Boophis* and *Mantidactylus* (Anura: Ranidae). *Herpetozoa*, 11, 109–116
Verboven, H.A.F., Brys, R. & Hermy, M. (2012). Sex in the city: reproductive success of *Digitalis purpurea* in a gradient from urban to rural sites. *Landsc. Urban Plan.*, 106, 158–164
Verdasca, M.J., Leitao, A.S., Santana, J., Porto, M., Dias, S. & Beja, P. (2012). Forest fuel management as a conservation tool for early successional species under agricultural abandonment: The case of Mediterranean butterflies. *Biol. Conserv.*, 146, 14–23
Verdú, J.R., Moreno, C.E., Sánchez-Rojas, G., Numa, C., Galante, E. & Halffter, G. (2007). Grazing promotes dung beetle diversity in the xeric landscape of a Mexican Biosphere Reserve. *Biol. Conserv.*, 140, 308–317
Vergara, C.H. & Badano, E.I. (2009). Pollinator diversity increases fruit production in Mexican coffee plantations: the importance of rustic management systems. *Agric. Ecosyst. Environ.*, 129, 117–123
Vergara, P.M. & Simonetti, J.A. (2004). Avian responses to fragmentation of the Maulino Forest in central Chile. *Oryx*, 38, 383–388
Vilela, C. & Bächli, G. (2000). Morphological and ecological notes on the two species of *Drosophila* belonging to the subgenus *Siphlodora* Patterson & Mainland, 1994 (Diptera, Drosophilidae). *Mitteilungen Der Schweizerischen Entomol. Gesellschaft*, 73, 23–47
Villegas-Guzmán, G.A., Roldán-Hernández, L. & Campillo, G. (2012). Pseudoescorpiones (Arachnida: Pseudoscorpiones) presentes en el contenido estomacal de *Cophosaurus texanus* (Reptilia: Phrynosomatidae) de México. *Rev. Ibérica Aracnol.*, 21, 151–152
Virgilio, M., Backeljau, T., Emeleme, R., Juakali, J.L. & De Meyer, M. (2011). A quantitative comparison of frugivorous tephritids (Diptera: Tephritidae) in tropical forests and rural areas of the Democratic Republic of Congo. *Bull. Entomol. Res.*, 101, 591–597
Vu, L. V. (2009). Diversity and similarity of butterfly communities in five different habitat types at Tam Dao National Park, Vietnam. *J. Zool.*, 277, 15–22
Vu, L. Van. (2005). *Unpublished data of diversity and similarity of butterfly communities in five different habitat types at Tam Dao National Park, Vietnam*
Vu, L. Van & Vu, C.Q. (2011). Diversity pattern of butterfly communities (Lepidoptera, Papilionoidae) in different habitat types in a tropical rain forest of Southern Vietnam. *ISRN Zool.*, 2011, 1–8
Wade, M.R., Hopkinson, J.E. & Zalucki, M.P. (2008). Influence of food supplementation on the fitness of two biological control agents: A predatory nabid bug and a bollworm pupal parasitoid. *J. Pest Sci. (2004).*, 81, 99–107
Waite, E., Closs, G.P., van Heezik, Y. & Dickinson, K.J.M. (2013). Resource availability and foraging of Silvereyes (*Zosterops lateralis*) in urban trees. *Emu*, 113, 26–32
Walker, S., Wilson, D.J., Norbury, G., Monks, A. & Tanentzap, A.J. (2014). Complementarity of indigenous flora in shrublands and grasslands in a New Zealand dryland landscape. *N. Z. J. Ecol.*, 38, 230–241
Wegener, C. (1998). Predation on the grassbug species *Notostira elongata* (Heteroptera: Miridae) by Nabidae (Heteroptera) and selected non-webbuilding spiders (Araneae). *Entomol. Gen.*, 22, 295–304
Weller, B. & Ganzhorn, J.U. (2004). Carabid beetle community composition, body size, and fluctuating asymmetry along an urban-rural gradient. *Basic Appl. Ecol.*, 5, 193–201
Wells, K., Kalko, E.K. V., Lakim, M.B. & Pfeiffer, M. (2007). Effects of rain forest logging on species richness and assemblage composition of small mammals in Southeast Asia. *J. Biogeogr.*, 34, 1087–1099

Wheeler, A.G. (2007). *Eremocoris borealis dallas* (Hemiptera: Lygaeoidea: Rhyparochromidae): a litter-inhabiting seed bug in cones of pitch pine (*Pinus rigida*). *Proc. Entomol. Soc. Washingt.*, 109, 715–717
Wheeler, W.M. (1907). The fungus-growing ants of North America. *Bull. Am. Museum Nat. Hist.*, 23, 669–807
White, R.E. (1983). *A Field Guide to the Beetles of North America*. Houghton Mifflin, New York
Whitney, B.M. & Alonso, J.A. (1998). A new *Herpsilochmus* antwren (Aves: Thamnophilidae) from northern Amazonian Peru and adjacent Ecuador: the role of edaphic heterogeneity of *terra firme* forest. *Auk*, 115, 559–576
Whitney, B.M., Pacheco, J.F., Buzzetti, D.R.C. & Parrini, R. (2000). Systematic revision and biogeography of the *Herpsilochmus pileatus* complex, with description of a new species from northeastern Brazil. *Auk*, 117, 869–891
Wiafe, E.D. & Amfo-Otu, R. (2012). Forest duiker (*Cephalophus spp*.) abundance and hunting activities in the Kakum conservation area, Ghana. *J. Ecol. Nat. Environ.*, 4, 114–118
Will, K.W., Liebherr, J.K., Maddison, D.R. & Galián, J. (2005). Absence asymmetry: the evolution of monorchid beetles (Insecta: Coleoptera: Carabidae). *J. Morphol.*, 264, 75–93
Williams, C.D., Sheahan, J. & Gormally, M.J. (2009). Hydrology and management of turloughs (temporary lakes) affect marsh fly (Sciomyzidae: Diptera) communities. *Insect Conserv. Divers.*, 2, 270–283
Willig, M.R., Presley, S.J., Bloch, C.P., Hice, C.L., Yanoviak, S.P., Díaz, M.M., *et al.* (2007). Phyllostomid bats of lowland Amazonia: effects of habitat alteration on abundance. *Biotropica*, 39, 737–746
Wilson-Rankin, E.E. (2015). Level of experience modulates individual foraging strategies of an invasive predatory wasp. *Behav. Ecol. Sociobiol.*, 69, 491–499
Wilson, S.W., Mitter, C., Denno, R.F. & Wilson, M.R. (1994). Evolutionary patterns of host plant use by delphacid planthoppers and their relatives. In: *Planthoppers: Their Ecology and Management* (eds. Denno, R.F. & Perfect, J.). Chapman and Hall, New York, pp. 7–45
Winfree, R., Griswold, T. & Kremen, C. (2007). Effect of human disturbance on bee communities in a forested ecosystem. *Conserv. Biol.*, 21, 213–223
Woinarski, J.C.Z. & Ash, a. J. (2002). Responses of vertebrates to pastoralism, military land use and landscape position in an Australian tropical savanna. *Austral Ecol.*, 27, 311–323
Woinarski, J.C.Z., Rankmore, B., Hill, B., Griffiths, A.D., Stewart, A. & Grace, B. (2009). Fauna assemblages in regrowth vegetation in tropical open forests of the Northern Territory, Australia. *Wildl. Res.*, 36, 675–690
Wollenberg, K.C., Veith, M., Noonan, B.P. & Lötters, S. (2006). Polymorphism versus species richness—systematics of large *Dendrobates* from the eastern Guiana Shield (Amphibia: Dendrobatidae). *Copeia*, 2006, 623–629
Woodcock, B.A., Potts, S.G., Pilgrim, E., Ramsay, A.J., Tscheulin, T., Parkinson, A., *et al.* (2007). The potential of grass field margin management for enhancing beetle diversity in intensive livestock farms. *J. Appl. Ecol.*, 44, 60–69
Woodhead, C., Vences, M., Vieites, D.R., Gamboni, I., Fisher, B.L. & Griffiths, R.A. (2007). Specialist or generalist? Feeding ecology of the Malagasy poison frog *Mantella aurantiaca*. *Herpetol. J.*, 17, 225–236
Wronski, T., Gilbert, K., Long, E., Micha, B., Quinn, R. & Hausdorf, B. (2014). Species richness and meta-community structure of land snails along an altitudinal gradient on Bioko Island, Equatorial Guinea. *J. Molluscan Stud.*, 80, 161–168
Wunderle, J.M., Henriques, L.M.P. & Willig, M.R. (2006). Short-term responses of birds to forest gaps and understory: an assessment of reduced-impact logging in a lowland Amazon Forest. *Biotropica*, 38, 235–255

Yamashita, S. & Hijii, N. (2003). Effects of mushroom size on the structure of a mycophagous arthropod community: comparison between infracommunities with different types of resource utilization. *Ecol. Res.*, 18, 131–143
Yamaura, Y., Royle, J.A., Shimada, N., Asanuma, S., Sato, T., Taki, H., *et al.* (2012). Biodiversity of man-made open habitats in an underused country: a class of multispecies abundance models for count data. *Biodivers. Conserv.*, 21, 1365–1380
Yavorskaya, M.I., Leschen, R.A.B., Polilov, A.A. & Beutel, R.G. (2014). Unique rostrate larvae and basidiomycophagy in the beetle family Corylophidae. *Arthropod Struct. Dev.*, 43, 153–162
Yin, C.M., Wang, J.F., Zhu, M.S., Xie, L.P., Peng, X.J. & Bao, Y.H. (1997). *Fauna Sinica: Arachnida: Araneae: Araneidae*. Science Press, Beijing
Yoshikura, S., Yasui, S. & Kamijo, T. (2011). Comparative study of forest-dwelling bats' abundances and species richness between old-growth forests and conifer plantations in Nikko National Park, central Japan. *Mammal Study*, 36, 189–198
Zaitsev, A.S., Chauvat, M., Pflug, A. & Wolters, V. (2002). Oribatid mite diversity and community dynamics in a spruce chronosequence. *Soil Biol. Biochem.*, 34, 1919–1927
Zaitsev, A.S., Wolters, V., Waldhardt, R. & Dauber, J. (2006). Long-term succession of oribatid mites after conversion of croplands to grasslands. *Appl. Soil Ecol.*, 34, 230–239
Zimmer, K.J. & Whittaker, A. (2000). Species limits in pale-tipped tyrannulets (Inezia: Tyrannidae). *Wilson Bull.*, 112, 51–66
Zimmer, K.J., Whittaker, A. & Oren, D.C. (2001). A cryptic new species of flycatcher (Tyrannidae: *Suiriri*) from the Cerrado region of Central South America. *Auk*, 118, 56–78
Zimmerman, G., Bell, F.W., Woodcock, J., Palmer, A. & Paloniemi, J. (2011). Response of breeding songbirds to vegetation management in conifer plantations established in boreal mixedwoods. *For. Chron.*, 87, 217–224
Zimmermann, B.L. (1983). A comparison of structural features of calls of open and forest habitat frog species in the central Amazon. *Herpetologica*, 39, 235–246
Zimmermann, D.A., Turner, D.A., Pearson, D.J., Willis, I., Pratt, D. & Peterson, R.T. (1996). *Birds of Kenya and Northern Tanzania*. Princeton University Press, Princeton
Zug, G.R. & Zug, P.B. (1979). The marine toad *Bufo marinus*: a natural history resumé of native populations. *Smithson. Contrib. to Zool.*, 284, 1–58