

Taxonomically distant species show similar invasion traits

Tina Heger, Sylvia Haider, Wolf-Christian Saul and Jonathan M. Jeschke

Supplementary material 1

Dataset used for the analyses, and list of references the information is based on. For each of the 201 species, information on 13 potential invasion traits was collected using USDA (2009a, b), BfN (2013), DAISIE (2013), GISD (2013), IUCN (2013), and NOBANIS (2013). Additional sources are given in the last column. Taxonomic affiliation follows Maddison & Schulz (2010). Species nomenclature follows the publications used as reference.

Abbreviations: Invasion traits: 1: yes, 0: no; taxonomic group: 1: bacteria, 2: plants, 3: red algae, 4: animals, 5: fungi, 6: alveolates, 7: heterokonts; hypothetical invader types: 0: no assignment, 1: drifters, 2: fugitives, 3: establishers, 4: spreaders, 5: promoted.

Species	Intentional transportation?	In IUCN Red List? (2013)	Transportation as diaspore?	Seedbank?	Intentional release?	Release adult?	Phenotypic plasticity? Can one individual form a population?	More than one reproduction per year?	Fecundity above average?	Offspring in first year?	Intentional spread?	Spread as active mobile organism?	References	Taxonomic group	2-Cluster	3-Cluster	5-Cluster	Invader type
<i>Acacia dealbata</i>	1	0	1	1	1	0	1	1	1	1	0	0	0 Lorenzo et al. 2010	2	1	3	5	3
<i>Acanthaster planci</i>	0	0	0	0	0	0	1	0	0	1	0	0	0 Babcock and Mundy 1992; Mills 2012	4	2	2	2	n/a
<i>Acanthopora spicifera</i>	0	0	0	1	0	1	1	1	1	1	0	0	0 University of Hawaii 2002	3	1	1	1	3
<i>Acer platanoides</i>	1	0	1	1	0	0	1	0	0	0	0	0	0 Paquette et al. 2012	2	1	1	3	n/a
<i>Acridotheres tristis</i>	1	0	0	0	1	1	0	0	1	1	1	0	1 Bennett 1986; McLain et al. 1999; Cassey 2001	4	2	2	4	4
<i>Aedes albopictus</i>	0	0	1	1	0	1	1	0	1	0	1	0	1 Löwenberg Neto and Navarro-Silva 2004; Reynolds et al. 2012; Yee et al. 2012	4	2	2	2	1
<i>Ailanthus altissima</i>	1	0	0	1	0	0	1	0	0	1	0	0	0 Landenberger et al. 2006; Mou et al. 2012	2	1	1	3	n/a
<i>Alexandrium catenella</i>	0	0	1	1	0	0	0	1	1	0	1	0	1	6	1	1	1	1
<i>Alosa pseudoharengus</i>	0	0	0	0	0	1	0	0	0	0	0	0	1 Carlander 1969	4	2	2	2	n/a
<i>Alternanthera philoxeroides</i>	0	0	1	0	0	1	1	1	1	0	1	0	0 Geng et al. 2006	2	1	1	1	2
<i>Amaranthus retroflexus</i>	0	0	1	1	0	0	1	1	0	1	1	0	0 Wang et al. 2006c	2	1	1	3	1
<i>Ambrosia artemisiifolia</i>	0	0	1	1	0	0	0	1	0	0	1	0	0 Lavoie et al. 2003; Brandes and Nietzsche 2006	2	1	1	3	1
<i>Anas platyrhynchos</i>	1	0	0	0	1	1	0	0	0	1	1	0	1 König 1967; Lever 1987; Janis and Carrano 1992	4	2	2	4	4
<i>Andropogon virginicus</i>	0	0	1	1	0	0	0	1	0	0	0	0	0	2	1	1	3	1
<i>Anoplolepis gracilipes</i>	0	0	0	0	0	1	0	1	0	0	1	0	1 Rao and Veeresh 1991	4	2	2	2	n/a
<i>Anoplophora glabripennis</i>	0	0	0	0	0	1	0	0	0	0	1	0	1 Li and Liu 1997; Hu et al. 2009	4	2	2	2	n/a
<i>Aphanomyces astaci</i>	0	0	1	0	0	1	0	1	1	0	1	0	1 Fisheries and Oceans Canada 2013	7	2	2	2	n/a
<i>Aphis gossypii</i>	0	0	0	0	0	1	1	1	1	0	1	0	1 Messing et al. 2007	4	2	2	2	n/a
<i>Balanus improvisus</i>	0	0	1	0	0	0	0	1	1	0	1	0	0 Leppäkoski 1999; Daehne 2013	4	1	1	1	1
<i>Batillaria atramentaria</i>	0	0	0	0	0	1	0	0	0	0	0	0	1 Byers and Goldwasser 2001	4	2	2	2	n/a
<i>Batrachochytrium dendrobatidis</i>	0	0	1	0	0	1	0	1	1	0	1	0	1	5	2	2	2	n/a
<i>Bemisia tabaci</i>	0	0	0	0	0	1	1	0	1	0	1	0	1 Martin 1999; Guershon and Gerling 2001, 2006; Mau et al. 2007; Malumphy et al. 2009	4	2	2	2	n/a
<i>Boiga irregularis</i>	0	0	0	0	0	1	0	1	1	1	0	0	1 Fritts and Rodda 1998; Savidge et al. 2007	4	2	2	2	n/a

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<i>Bonnemaisonia hamifera</i>	0	0	1	1	0	1	0	1	1	0	1	0	0	3	1	1	1	1
<i>Branta canadensis</i>	1	0	0	0	1	1	0	0	0	0	0	0	1 König 1967; Cassey 2001; Hayman and Hume 2002	4	2	2	4	4
<i>Bubo virginianus</i>	1	0	0	0	1	1	0	0	0	0	0	0	1 Schoener 1968; Bennett 1986; Myers et al. 2013	4	2	2	4	4
<i>Bunias orientalis</i>	1	0	1	1	0	0	0	1	1	1	1	0	0 Dietz et al. 1999	2	1	1	3	3
<i>Caiman crocodylus</i>	1	0	0	0	0	1	0	1	0	0	0	0	1	4	2	2	4	n/a
<i>Campylopus introflexus</i>	0	0	1	0	0	0	0	1	1	1	1	0	0	2	1	1	1	3
<i>Canis lupus familiaris</i>	1	0	0	0	0	1	0	0	0	0	0	0	1	4	2	2	4	n/a
<i>Carcinus maenas</i>	0	0	0	0	0	1	1	0	0	1	0	0	0 Todd et al. 2012	4	2	2	2	2
<i>Carduelis carduelis</i>	1	0	0	0	1	1	0	0	1	1	1	0	1 König 1966; Bennett 1986; Cassey 2001	4	2	2	4	4
<i>Carpobrotus edulis</i>	1	0	1	1	1	0	1	1	1	1	1	1	0 Weber and D'Antonio 1999	2	1	3	5	3
<i>Castor canadensis</i>	1	0	0	0	0	1	0	0	0	0	0	0	1	4	2	2	4	n/a
<i>Caulerpa taxifolia</i>	1	0	1	1	0	1	1	1	1	1	1	0	0 NIMPIS 2009	2	1	1	1	3
<i>Ceratostoma inornatum</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	4	1	1	1	n/a
<i>Cercopagis pengoi</i>	0	0	1	1	0	0	0	1	1	0	1	0	0	4	1	1	1	1
<i>Cervus elaphus</i>	1	0	0	0	1	1	0	0	0	0	0	0	1 Purvis and Harvey 1995	4	2	2	4	4
<i>Channa argus</i>	1	0	0	0	1	1	0	0	1	0	0	0	1	4	2	2	4	4
<i>Chromolaena odorata</i>	1	0	1	1	0	0	1	0	0	1	0	0	0 Wang et al. 2006a	2	1	1	3	n/a
<i>Chrysemys picta</i>	1	0	0	0	1	1	1	1	0	0	0	0	1 Jackson 2002; Pearse et al. 2002; Rowe et al. 2009; Myers et al. 2013	4	2	2	4	4
<i>Cichla kelberi</i>	1	0	0	0	1	1	0	1	1	0	1	1	1 Fontenele 1950; Chellappa et al. 2003; Gomiero and Braga 2004	4	2	2	4	5
<i>Cichla ocellaris</i>	1	0	0	0	1	0	0	0	1	0	1	1	1	4	2	2	4	5
<i>Cinnamomum camphora</i>	1	0	0	1	0	0	0	1	0	0	0	0	0 Duever 2005	2	1	1	3	n/a
<i>Circus approximans</i>	1	0	0	0	1	1	0	0	0	0	0	0	1	4	2	2	4	4
<i>Cirsium arvense</i>	0	0	1	1	0	0	1	1	1	0	1	0	0 Ryser and Eek 2000	2	1	1	3	1
<i>Codium fragile</i> spp. <i>tomentosoides</i>	0	0	1	0	0	1	1	1	1	0	1	0	0	2	1	1	1	2
<i>Columba livia</i>	1	0	0	0	0	1	0	0	1	1	0	0	1 Heinroth 1922; Bennett 1986; Cassey 2001	4	2	2	4	n/a
<i>Conyza canadensis</i>	0	0	1	0	0	0	1	1	0	1	1	0	0 Alexander et al. 2009	2	1	1	3	3
<i>Coptotermes formosanus</i>	0	0	0	0	0	1	0	0	0	0	1	0	1 Suiter et al. 2013	4	2	2	2	n/a
<i>Cortaderia selloana</i>	1	0	1	1	1	1	1	1	0	1	1	0	0 Vourliitis and Kroon 2013	2	1	1	3	3
<i>Corvus splendens</i>	1	0	0	0	1	1	0	0	1	0	0	0	1 Bennett 1986; Cassey 2001	4	2	2	4	4
<i>Coscinodiscus wailesii</i>	0	0	1	1	0	1	0	1	1	1	1	0	0	7	1	1	1	1
<i>Crassula helmsii</i>	1	0	1	1	0	1	1	1	1	1	1	0	0	2	1	1	1	3
<i>Cronartium ribicola</i>	0	0	1	0	0	1	0	1	1	0	1	0	0 Maloy 2003	5	1	1	1	2
<i>Cryphonectria parasitica</i>	0	0	1	0	0	1	0	1	1	0	1	0	0	5	1	1	1	2
<i>Ctenopharyngodon idella</i>	1	0	0	0	1	0	0	0	0	1	0	0	1	4	2	2	4	4

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<i>Ctenosaura similis</i>	1	0	0	0	1	1	0	1	0	1	0	0	1 Krysko et al. 2003; Townsend et al. 2003; Myers et al. 2013	4	2	2	4	4	
<i>Cupressus macrocarpa</i>	1	1	0	1	1	1	0	0	0	0	0	0			2	2	2	4	5
<i>Cyathea cooperi</i>	1	0	1	1	0	0	0	0	0	0	1	0	0		2	1	1	3	n/a
<i>Cyclura nubila</i> spp. <i>nubila</i>	1	1	0	0	0	1	0	1	0	0	0	0	1 Christian 1986; Lemm and Alberts 1997	4	2	2	4	n/a	
<i>Cygnus olor</i>	1	0	0	0	1	1	0	0	0	1	0	0	1 Lever 1987; Janis and Carrano 1992	4	2	2	4	4	
<i>Cyprinus carpio</i>	1	1	0	0	1	1	1	0	0	0	0	1	1 Bănărescu and Paepke 2002; Weber et al. 2012	4	2	2	4	5	
<i>Danaus plexippus</i>	0	0	0	0	0	1	1	0	1	0	1	0	1 Solensky and Larkin 2003	4	2	2	2	n/a	
<i>Daphnia lumholtzi</i>	0	0	1	1	0	0	1	1	1	0	1	0	0 Work and Gophen 1999; Burns 2000; Lennon et al. 2001	4	1	1	3	1	
<i>Dendrobates auratus</i>	1	0	0	0	1	1	1	0	0	0	0	0	1 AmphibiaWeb 2013; Flores et al. 2013; Ostrowski and Mahn 2013	4	2	2	4	4	
<i>Didymosphenia geminata</i>	0	0	1	0	0	1	0	1	1	0	1	0	0		7	1	1	1	2
<i>Dreissena polymorpha</i>	0	0	1	0	0	0	0	0	1	1	1	0	0 Mackie et al. 1989; Borcherding 1991; Mackie 1991	4	1	1	1	1	
<i>Echinocystis lobata</i>	1	0	1	1	0	0	0	1	0	0	1	0	0		2	1	1	3	n/a
<i>Eichhornia crassipes</i>	1	0	0	0	1	1	1	1	1	1	1	1	0 Andrade et al. 2013	2	1	3	5	3	
<i>Elaeis guineensis</i>	1	0	0	1	0	0	0	0	1	0	0	0	0		2	1	1	3	n/a
<i>Eleutherodactylus coqui</i>	0	0	0	0	0	1	0	0	1	1	0	0	1 Kraus et al. 1999; Sin and Radford 2007; AmphibiaWeb 2013	4	2	2	2	n/a	
<i>Eleutherodactylus planirostris</i>	0	0	0	0	0	1	0	0	1	0	0	0	1 AmphibiaWeb 2013	4	2	2	2	n/a	
<i>Elodea canadensis</i>	1	0	0	0	1	0	1	1	1	0	1	0	0 Riis et al. 2010	2	1	3	5	3	
<i>Erigeron annuus</i>	1	0	1	1	0	0	0	1	0	1	0	0	0 Lohmeyer and Sukopp 1992; Trtikova et al. 2010	2	1	1	3	n/a	
<i>Erinaceus europaeus</i>	1	0	0	0	1	1	0	0	1	0	1	0	1 Purvis and Harvey 1995	4	2	2	4	4	
<i>Eriocheris sinensis</i>	0	0	0	0	0	0	0	1	0	1	0	0	1		4	2	2	2	4
<i>Eschscholzia californica</i>	0	0	0	1	0	0	1	1	0	1	1	0	0 Leger and Rice 2003; Leger and Forister 2005	2	1	1	3	3	
<i>Felis catus</i>	1	0	0	0	1	1	0	0	1	1	1	1	1 Purvis and Harvey 1995	4	2	2	4	5	
<i>Ficopomatus enigmaticus</i>	0	0	1	0	0	0	0	0	1	0	1	0	0		4	1	1	1	1
<i>Galinsoga parviflora</i>	1	0	1	1	0	0	0	0	0	0	1	0	0		2	1	1	3	n/a
<i>Gambusia affinis</i>	1	0	0	0	1	1	1	0	1	0	1	0	1 Stockwell and Vinyard 2000	4	2	2	4	4	
<i>Glandirana rugosa</i>	1	0	0	0	1	1	0	0	1	0	0	0	1 AmphibiaWeb 2013	4	2	2	4	4	
<i>Gracilaria salicornia</i>	1	0	1	0	1	1	0	1	1	1	1	0	0 Oyieke 1994; Gurgel and Fredericq 2004	3	1	1	1	3	
<i>Gymnodinium mikimotoi</i>	0	0	1	1	0	1	0	1	1	1	1	0	1		6	1	1	1	1
<i>Gymnorhina tibicen</i>	1	0	0	0	1	1	0	0	0	0	0	0	1 Bennett 1986; Cassey 2001	4	2	2	4	4	
<i>Halophila stipulacea</i>	0	0	1	0	0	1	0	1	1	0	1	0	0		2	1	1	1	2
<i>Harmonia axyridis</i>	1	0	0	0	0	1	1	1	1	1	1	0	1 Hodek and Ceryngier 2000; Koch 2003; Bazzocchi et al. 2004; Nalepa and Weir 2007; Michie et al. 2010; Michie et al. 2011	4	2	2	2	3	

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<i>Hedychium gardnerianum</i>	1	0	1	1	0	1	0	1	1	0	1	0	0	2	1	1	1	2
<i>Helianthus tuberosus</i>	1	0	0	0	0	1	0	1	1	0	1	0	0	2	1	1	1	2
<i>Hemidactylus frenatus</i>	0	0	0	0	0	1	0	1	1	0	0	0	1	4	2	2	2	n/a
<i>Heracleum mantegazzianum</i>	1	0	1	1	1	0	0	1	0	1	0	0	0	2	1	1	3	5
<i>Herpestes javanicus</i>	1	0	0	0	1	1	0	0	1	0	1	0	1	4	2	2	4	4
<i>Hypochaeris radicata</i>	0	0	1	1	0	0	0	0	0	0	1	0	0	2	1	1	3	1
<i>Hypophthalmichthys molitrix</i>	1	1	0	0	0	1	1	0	0	0	0	0	1	4	2	2	4	n/a
<i>Iguana iguana</i>	1	0	0	0	1	1	0	1	0	1	0	0	1	4	2	2	4	4
<i>Impatiens glandulifera</i>	1	0	1	1	0	0	1	1	0	1	1	0	0	2	1	1	3	3
<i>Impatiens parviflora</i>	1	0	1	1	0	0	1	1	0	0	1	0	0	2	1	1	3	3
<i>Ipomoea aquatica</i>	0	0	0	0	0	1	0	1	1	0	1	0	0	2	1	1	1	2
<i>Lachnellula willkommii</i>	0	0	1	0	0	1	0	1	1	0	1	0	0	5	1	1	1	2
<i>Lantana camara</i>	1	0	1	1	0	0	0	1	1	1	0	0	0	2	1	1	3	3
<i>Lates niloticus</i>	1	0	0	0	1	1	0	0	0	1	0	1	1	4	2	2	4	5
<i>Lithobates catesbeianus</i>	1	0	0	0	1	1	0	0	1	1	0	0	1	4	2	2	4	4
<i>Littorina littorea</i>	0	0	0	0	0	1	1	0	0	0	0	0	1	4	2	2	2	n/a
<i>Lupinus polyphyllus</i>	1	0	1	1	1	0	1	1	0	0	1	0	0	2	1	1	3	5
													0 Chmelíková and Hejcman 2012; Söber and Ramula 2013					
<i>Lygodium japonicum</i>	1	0	1	1	0	0	0	1	0	1	0	0	0	2	1	1	3	n/a
<i>Lysichiton americanus</i>	1	0	0	0	1	1	0	0	0	0	1	0	0	2	2	2	4	5
<i>Melilotus albus</i>	1	0	1	1	0	0	0	1	0	0	1	0	0	2	1	1	3	n/a
<i>Mesotriton alpestris</i>	1	0	0	0	1	1	1	0	1	0	0	0	1	4	2	2	4	4
<i>Micropterus salmoides</i>	1	0	0	0	1	0	0	0	0	0	0	1	1	4	2	2	4	5
<i>Mikania micrantha</i>	1	0	1	1	1	1	0	1	1	1	1	0	0	2	1	1	1	3
<i>Mimosa pigra</i>	1	0	1	1	1	0	0	1	1	1	1	0	0	2	1	1	1	3
<i>Mimulus guttatus</i>	1	0	0	0	0	1	0	1	1	1	1	0	0	2	1	1	1	2
<i>Mnemiopsis leidyi</i>	0	0	0	0	0	0	0	1	1	1	1	0	0	4	1	1	1	3
<i>Molothrus ater</i>	0	0	0	0	0	1	0	0	1	1	1	0	1	4	2	2	2	n/a
<i>Molothrus bonariensis</i>	0	0	0	0	0	1	0	0	1	1	1	0	1	4	2	2	2	n/a
<i>Morella faya</i>	1	0	1	1	0	0	0	0	0	1	0	0	0	2	1	1	3	n/a
													0 Vitousek and Walker 1989; Arevalo et al. 2007; US Forest Service 2013					
<i>Muntiacus reevesi</i>	1	0	0	0	0	1	0	0	0	0	1	0	1	4	2	2	4	n/a
<i>Mus musculus</i>	0	0	0	0	0	1	0	0	1	1	1	0	1	4	2	2	2	n/a
<i>Musculista senhousia</i>	0	0	0	0	0	1	0	0	0	1	1	0	0	4	2	2	2	2
<i>Mustela erminea</i>	1	0	0	0	1	1	0	0	0	0	1	0	1	4	2	2	4	4
<i>Mustela nivalis</i>	1	0	0	0	1	1	0	0	1	1	1	0	1	4	2	2	4	4
<i>Mycale grandis</i>	0	0	0	0	0	1	0	1	1	0	1	0	0	4	1	1	1	2
<i>Myocastor coypus</i>	1	0	0	0	0	1	0	0	1	0	1	0	1	4	2	2	2	n/a

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<i>Myxobolus cerebralis</i>	0	0	1	1	0	1	0	1	1	0	1	0	0 Montana Water Center 2011	4	1	1	1	1
<i>Neogobius melanostomus</i>	0	0	1	0	0	0	0	0	1	0	1	0	0 Miller 2003	4	1	1	1	1
<i>Neovison vison</i>	1	0	0	0	0	1	0	0	0	0	0	0	1 Binida-Emonds 1998	4	2	2	4	n/a
<i>Nephrolepis cordifolia</i>	1	0	1	1	0	0	0	1	1	0	1	0	0 Center for Aquatic and Invasive Plants 2013	2	1	1	3	3
<i>Norops sagrei</i>	0	0	0	0	0	1	1	1	0	0	0	0	1 Sever and Hamlett 2002; Myers et al. 2013	4	2	2	2	n/a
<i>Odontella sinensis</i>	0	0	1	0	0	1	0	1	1	0	1	0	0	7	1	1	1	2
<i>Oncorhynchus gorboscha</i>	0	0	0	0	0	0	0	0	0	0	0	0	1 Jeschke and Strayer 2006; AnAge 2012	4	2	2	2	4
<i>Oncorhynchus mykiss</i>	1	0	0	0	1	0	0	0	0	0	0	1	1 Carlander 1969	4	2	2	4	5
<i>Ooptyx soledadinus</i>	0	0	0	0	0	1	0	1	0	0	1	0	1 Ernstring 1993; Lebouvier et al. 2005	4	2	2	2	n/a
<i>Ophiostoma ulmi</i> sensu lato	0	0	1	0	0	1	0	1	1	0	1	0	0	5	1	1	1	2
<i>Opuntia stricta</i>	1	0	1	1	1	1	0	1	1	1	1	0	0 Eurobodalla 2013	2	1	1	1	3
<i>Orthodontium lineare</i>	0	0	1	1	0	0	0	1	0	0	1	0	0	2	1	1	3	1
<i>Oryctolagus cuniculus</i>	1	1	0	0	1	1	0	0	1	0	1	0	1	4	2	2	4	4
<i>Osteopilus septentrionalis</i>	0	0	0	0	0	1	0	0	1	1	1	0	1 Masterson 2007; AmphibiaWeb 2013	4	2	2	2	n/a
<i>Oxalis pes-caprae</i>	0	0	1	0	0	0	1	1	0	0	1	0	0 Verdaguer et al. 2010	2	1	1	3	1
<i>Oxyura jamaicensis</i>	1	0	0	0	0	0	0	0	0	0	0	0	1 Bennett 1986	4	2	2	2	4
<i>Paspalum distichum</i>	0	0	1	0	0	0	0	1	1	0	1	0	0	2	1	1	1	1
<i>Passer domesticus</i>	1	0	0	0	1	1	0	0	1	1	1	0	1 Heinroth 1922; Cassey 2001	4	2	2	4	4
<i>Pasteurella multocida</i>	0	0	0	0	0	1	0	1	1	0	1	0	0	1	1	1	1	2
<i>Pennisetum setaceum</i>	1	0	0	0	0	0	1	1	1	0	1	0	0 Poulin et al. 2007	2	1	3	5	3
<i>Perca fluviatilis</i>	1	0	0	0	1	0	1	0	0	1	0	1	1 Jeschke and Strayer 2006; Svenbäck and Eklöv 2006; Eklöv and Jonsson 2007; Kekäläinen et al. 2010a; Kekäläinen et al. 2010b	4	2	2	4	5
<i>Petromyzon marinus</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	4	2	2	2	2
<i>Phasianus colchicus</i>	1	0	0	0	1	1	0	0	0	0	1	1	1 Bennett 1986; Janis and Carrano 1992	4	2	2	4	5
<i>Phellinus noxius</i>	0	0	1	1	0	1	0	1	1	0	1	0	0 Bartz 2007	5	1	1	1	1
<i>Phytophthora cinnamomi</i>	0	0	1	1	0	1	0	0	1	1	1	0	1	7	1	1	1	1
<i>Pinus nigra</i>	1	0	0	0	1	1	1	1	0	0	0	0	0 Richter et al. 2012	2	2	2	4	5
<i>Pinus pinaster</i>	1	0	0	1	0	0	1	0	0	0	0	0	0 Corcuera et al. 2011	2	1	1	3	n/a
<i>Pinus strobus</i>	1	0	0	1	1	1	0	1	0	0	0	0	0	2	2	2	4	5
<i>Pistia stratiotes</i>	1	0	0	0	0	1	0	1	1	0	1	0	0 Rivers 2002	2	1	1	1	2
<i>Plasmodium relictum</i>	0	0	0	0	0	1	0	1	1	0	1	0	0	6	1	1	1	2
<i>Platydemus manokwari</i>	1	0	0	0	1	1	0	1	1	0	1	0	1 Kaneda et al. 1990	4	2	2	4	4
<i>Polistes chinensis antennalis</i>	0	0	0	0	0	1	0	1	0	0	1	0	1 Clapperton and Lo 2000	4	2	2	2	n/a
<i>Procyon lotor</i>	1	0	0	0	1	1	0	0	0	1	0	0	1 Binida-Emonds 1998	4	2	2	4	4
<i>Prosopis glandulosa</i>	1	0	1	1	1	0	1	1	0	1	0	1	0 Martinez and Lopez-Portillo 2003	2	1	3	5	5
<i>Proterorhinus marmoratus</i>	0	0	1	0	0	0	0	0	0	0	1	0	0 Miller 2004	4	1	1	1	1
<i>Prunus serotina</i>	1	0	0	1	1	0	1	1	1	0	0	1	0 Abrams and Mostoller 1995	2	1	3	5	5

Species	Intentional transportation?	In IUCN Red List? (2013)	Transportation as diaspore?	Seedbank?	Intentional release?	Release adult?	Phenotypic plasticity? Can one individual form a population?	More than one reproduction per year?	Fecundity above average?	Offspring in first year?	Intentional spread?	Spread as active mobile organism?	References	Taxonomic group	2-Cluster	3-Cluster	5-Cluster	Invader type
<i>Pseudoscleropodium purum</i>	1	0	1	0	0	1	0	1	1	0	1	0	0 Miller and Trigoboff 2001	2	1	1	1	2
<i>Pseudotsuga menziesii</i>	1	0	0	1	1	1	1	1	0	0	0	0	0 Martinez-Meier et al. 2009	2	2	2	4	5
<i>Pueraria montana var. lobata</i>	1	0	1	1	1	0	0	1	1	1	1	0	0	2	1	1	1	3
<i>Pycnonotus cafer</i>	0	0	0	0	0	1	0	0	1	0	1	0	1 Bennett 1986; Cassey 2001	4	2	2	2	n/a
<i>Python bivittatus</i>	1	1	0	0	1	1	1	1	0	0	0	0	1 Wang et al. 2006b	4	2	2	4	4
<i>Quercus rubra</i>	1	0	1	1	1	0	1	1	0	1	0	1	0 Brun 1987; Abrams 1994; Dressel and Jäger 2002	2	1	3	5	5
<i>Rangifer tarandus</i>	1	0	0	0	1	1	0	0	0	0	0	0	1 Purvis and Harvey 1995	4	2	2	4	4
<i>Rapana venosa</i>	0	0	1	1	0	0	0	0	1	1	0	0	0	4	1	1	3	1
<i>Rattus rattus</i>	0	0	0	0	0	1	0	0	1	1	1	0	1 Millar 1981; Ernest 2003	4	2	2	2	n/a
<i>Rhinella marina</i>	1	0	0	0	1	1	1	0	1	1	0	0	1 Brown et al. 2011; Seebacher and Franklin 2011; Shine 2012	4	2	2	4	4
<i>Rhododendrum ponticum</i>	1	0	0	1	0	0	1	1	0	1	0	0	0 Niinemets et al. 2003	2	1	1	3	3
<i>Robinia pseudoacacia</i>	1	0	1	1	1	0	1	1	1	1	0	0	0 Xu et al. 2009	2	1	3	5	3
<i>Rosa rugosa</i>	1	0	0	1	1	0	0	1	1	0	0	1	0 Bruun 2005	2	1	3	5	5
<i>Salvelinus namaycush</i>	1	0	0	0	1	0	0	0	0	0	0	1	1 Carlander 1969	4	2	2	4	5
<i>Salvinia minima</i>	1	0	1	1	0	1	0	1	1	1	1	0	0	2	1	1	1	2
<i>Sciurus carolinensis</i>	1	0	0	0	1	1	0	0	1	0	1	0	1 Millar 1981; Purvis and Harvey 1995	4	2	2	4	4
<i>Senecio inaequidens</i>	0	0	1	1	0	0	1	1	1	1	1	0	0 Ernst 1998; Monty et al. 2013	2	1	1	3	3
<i>Sirex noctilio</i>	0	0	0	0	0	1	0	1	1	0	0	0	1	4	2	2	2	n/a
<i>Solenopsis invicta</i>	0	0	0	0	0	1	1	1	0	1	1	0	1 Keller and Ross 1993; Morisawa 2000; Collins and Scheffrahn 2013; Lockley 2013	4	2	2	2	n/a
<i>Solidago canadensis</i>	1	0	1	0	0	0	1	1	0	1	1	0	0 Sun et al. 2008	2	1	1	3	3
<i>Spartina alterniflora</i>	1	0	0	1	1	1	1	1	1	0	1	1	0 Ma and Shi 2011	2	1	3	5	5
<i>Streptopelia decaocto</i>	1	0	0	0	0	1	0	0	0	0	1	0	1 König 1967; Bennett 1986	4	2	2	4	n/a
<i>Sturnus vulgaris</i>	1	0	0	0	1	1	0	0	1	1	0	0	1 Martin 1995; Cassey 2001	4	2	2	4	4
<i>Thuja occidentalis</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	2	1	1	3	n/a
<i>Tilapia mariae</i>	1	0	0	0	0	1	0	0	1	1	1	0	1 Stauffer and Gray 2004	4	2	2	2	n/a
<i>Tinca tinca</i>	1	0	0	0	1	0	0	0	0	1	0	1	1 Bănărescu 1999	4	2	2	4	5
<i>Trachemys scripta elegans</i>	1	0	0	0	1	1	1	1	0	0	0	0	1 Rowe et al. 2009; Ernst et al. 2013; Myers et al. 2013	4	2	2	4	4
<i>Trichosurus vulpecula</i>	1	0	0	0	1	1	0	0	1	0	1	1	1	4	2	2	4	5
<i>Trogoderma granarium</i>	0	0	1	1	0	1	0	0	1	0	1	0	0 Harris 2009	4	1	1	1	1
<i>Ulex europaeus</i>	1	0	0	1	0	0	0	0	1	0	0	0	0 Buckley et al. 2003	2	1	1	3	n/a
<i>Undaria pinnatifida</i>	1	0	1	1	0	0	0	0	1	0	1	0	0 Choi et al. 2005; Schaffelke et al. 2005; Gao et al. 2013; NIMPIS 2013	7	1	1	3	n/a
<i>Varanus indicus</i>	1	0	0	0	1	1	0	0	1	0	1	0	1 Monitor-Lizards 2013	4	2	2	4	4

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<i>Varroa destructor</i>	0	0	0	0	0	1	1	1	1	1	1	0	1 Donzé et al. 1998; Corrêa-Marques et al. 2003; East Lothian Beekeepers Association 2004; Maggi et al. 2009; Ages 2013; Ellis and Zettel Nalen 2013	4	2	2	2	3
<i>Verbascum thapsus</i>	1	0	0	1	0	0	1	1	0	1	0	0	0 Parker et al. 2003	2	1	1	3	3
<i>Vibrio cholerae</i>	0	0	0	1	0	1	0	1	1	0	1	0	1 Brunings and Gabriel 2003; Graham et al. 2004; Medical Ecology 2004	1	2	2	2	n/a
<i>Vulpes vulpes</i>	1	0	0	0	1	1	0	0	0	1	1	0	1	4	2	2	4	4
<i>Xanthomonas citri</i>	0	0	0	0	0	1	0	1	1	0	1	0	1 Gottwald and Graham 2005	1	2	2	2	n/a
<i>Xenopus laevis</i>	1	0	0	0	0	1	1	0	1	1	0	0	1 Gouchie et al. 2008; Walsh et al. 2009; Myers et al. 2013	4	2	2	4	n/a
<i>Xylella fastidiosa</i>	0	0	0	0	0	1	0	1	1	0	1	0	0 Liberato et al. 2011	1	1	1	1	2
<i>Yersinia pestis</i>	0	0	0	0	0	1	0	1	1	0	1	0	1	1	2	2	2	n/a
<i>Zosterops japonicus</i>	1	0	0	0	1	1	0	0	1	1	1	0	1	4	2	2	4	4

References

- Abrams MD (1994) Genotypic and phenotypic variation as stress adaptations in temperate tree species. A review of several case studies. *Tree Physiology* 14: 833-842.
- Abrams MD, Mostoller SA (1995) Gas-exchange, leaf structure and nitrogen in contrasting successional tree species growing in open and understory sites during a drought. *Tree Physiology* 15: 361-370.
- AGES: Die Varroamilbe, Aussehen, Vermehrung, Lebensweise, Schadwirkung. http://www.ages.at/uploads/media/Varroa_Lebensweise.pdf.
- Alexander JM, Edwards PJ, Poll M, Parks CG, Dietz H (2009) Establishment of parallel altitudinal clines in traits of native and introduced forbs. *Ecology* 90: 612-622. doi: 10.1890/08-0453.1
- AmphibiaWeb: Information on amphibian biology and conservation. <http://amphibiaweb.org/>.
- AnAge: The animal ageing and longevity database. <http://genomics.senescence.info/species/>.
- Andrade EA, Barbosa MEA, Demetrio GR (2013) Density-dependent morphological plasticity and trade-offs among vegetative traits in *Eichhornia crassipes* (Pontederiaceae). *Acta Amazonica* 43: 455-460.
- Arevalo JR, Delgado JD, Fernandez-Palacios JM (2007) Variation in fleshy fruit fall composition in an island laurel forest of the Canary Islands. *Acta Oecologica* 32: 152-160.
- Babcock RC, Mundy CN (1992) Reproductive biology, spawning and field fertilization rates of *Acanthaster planci*. *Australian Journal of Marine and Freshwater Research*. doi: 10.1071/mf9920525.
- Bănărescu PM (1999) *The freshwater fishes of Europe - Volume 5/I: Cyprinidae 2/I*. Aula (Wiebelsheim).
- Bănărescu PM, Paepke H-J (2002) *The Freshwater Fishes of Europe - Volume 5/III: Cyprinidae 2/III: Carassius to Cyprinus, Gasterosteidae*. Aula (Wiebelsheim).
- Bartz F: Pathogen profile: *Phellinus noxius* (Corner) G. H. Cunnigam. http://www.cals.ncsu.edu/course/pp728/Phellinus/Phellinus_noxius.html.

- Bazzocchi GG, Lanzoni A, Accienelli G, Burgio G (2004) Overwintering, phenology and fecundity of *Harmonia axyridis* in comparison with native coccinellid species in Italy. *BioControl* 49: 245-260.
- Bell BD, Bell AP (1995) Distribution of the introduced alpine newt *Triturus alpestris* and of native *Triturus* species in north Shropshire, England. *Australian Journal of Ecology* 20: 367-375.
- Bennett PM (1986) Comparative Studies of Morphology, Life History and Ecology among Birds. Dissertation, University of Sussex.
- BfN: Neobiota.de. Gebietsfremde und invasive Arten in Deutschland. <http://www.neobiota.de/>.
- Binida-Emonds ORP (1998) Towards comprehensive phylogenies: Examples within the Carnivora (Mammalia). Dissertation, University of Oxford.
- Borcherding J (1991) The annual reproductive cycle of the freshwater mussel *Dreissena polymorpha* Pallas in lakes. *Oecologia (Heidelberg)* 87: 208-218.
- Brandes D, Nietzsche J (2006) Biology, introduction, dispersal, and distribution of common ragweed (*Ambrosia artemisiifolia* L.) with special regard to Germany. *Nachrichtenblatt des Deutschen Pflanzenschutzdienstes* 58: 286-291.
- Brown GP, Kelehear C, Shine R (2011) Effects of seasonal aridity on the ecology and behaviour of invasive cane toads (*Rhinella marina*) in the Australian wet-dry tropics. *Functional Ecology* 2013. doi: 10.1111/j.1365-2435.2011.01888.x.
- Brun C (1987) Zur Bestandserziehung und Stammqualität bei Roteichen-Jungbeständen im Fricktal/Aargau. *Allgemeine Forstzeitschrift* 42: 51-52.
- Brunings AM, Gabriel DW (2003) *Xanthomonas citri*: breaking the surface. *Molecular Plant Pathology* 4: 141-157.
- Bruun HH (2005) *Rosa rugosa* Thunb. ex Murray. *Journal of Ecology* 93: 441-470.
- Buckley YM, Downey P, Fowler SV, Hill R, Memmot J, Norambuena H, Pitcairn M, Shaw R, Sheppard AW, Winks C, Wittenberg R, Rees M (2003) Are invasives bigger? A global study of seed size variation in two invasive shrubs. *Ecology* 84: 1434-1440. doi: 10.1890/0012-9658(2003)084[1434:AIBAGS]2.0.CO;2.
- Burns CW (2000) Crowding-induced changes in growth, reproduction and morphology of *Daphnia*. *Freshwater Biology* 43: 19-29.
- Byers JE, Goldwasser L (2001) Exposing the mechanism and timing of impact of nonindigenous species on native species. *Ecology* 82: 1330-1342.

- Carlander KD (1969) Handbook of Freshwater Fishery Biology - Volume 1: Life History Data on Freshwater Fishes of the United States and Canada, Exclusive of the Perciformes. Iowa State University Press, Ames, Iowa.
- Carlander KD (1977) Handbook of Freshwater Fishery Biology - Volume 2: Life History Data on Centrarchid Fishes of the United States and Canada. Iowa State University Press, Ames, Iowa.
- Carrion-Tacuri J, Rubio-Casal AE, de Cires A, Figueroa ME, Castillo JM (2011) *Lantana camara* L.: a weed with great light-acclimation capacity. *Photosynthetica* 49: 321-329. doi: 10.1007/s11099-011-0039-6.
- Cassey P (2001) Comparative analyses of successful establishment among introduced land birds. Dissertation, Griffith University.
- Center for Aquatic and Invasive Plants: Tuberous sword fern, *Nephrolepis cordifolia*. <http://plants.ifas.ufl.edu/node/285>.
- Chellappa S, Câmara MR, Chellappa NT, Beveridge MCM, Huntingford FA (2003) Reproductive ecology of a neotropical cichlid fish, *Cichla monoculus* (Osteichthyes: Cichlidae). *Brazilian Journal of Biology* 63: 17-26.
- Chmelíková L, Hejčman M (2012) Root system variability in common legumes in Central Europe. *Biologia* 67: 116-125. doi: 10.2478/s11756-011-0138-7.
- Choi HG, Kim YS, Lee SJ, Park EJ, Nam KW (2005) Effects of daylength, irradiance and settlement density on the growth and reproduction of *Undaria pinnatifida* gametophytes. *Journal of Applied Phycology* 17: 423-430.
- Christian K (1986) Aspects of the life history of Cuban iguanas on Isla Magueyes, Puerto Rico. *Canb. J. Sci.* 22, 159-164. *Caribbean Journal of Science* 22: 159-164.
- Clapperton BK, Lo PL (2000) Nesting biology of Asian paper wasps *Polistes chinensis antennalis* Perez, and Australian paper wasps *P. humilis* (Fab.) (Hymenoptera: Vesipede) in Northern New Zealand. *New Zealand Journal of Zoology* 27: 189-195.
- Collins L, Scheffrahn RH: Red imported fire ant (*Solenopsis invicta* Buren)
http://www.entnemdept.ufl.edu/creatures/urban/ants/red_imported_fire_ant.htm.
- Corcuera L, Cochard H, Gil-Pelegrin E, Notivol E (2011) Phenotypic plasticity in mesic populations of *Pinus pinaster* improves resistance to xylem embolism (P50) under severe drought. *Trees* 25: 1033-1042. doi: 10.1007/s00468-011-0578-2.

- Corrêa-Marques MH, Medina LM, Martin SJ, De Jong D (2003) Comparing data on the reproduction of *Varroa destructor*. *Genetics and Molecular Research* 2: 1-6.
- Coulter AA, Keller D, Amberg JJ, Bailey EJ, Goforth RR (2013) Phenotypic plasticity in the spawning traits of bigheaded carp (*Hypophthalmichthys* spp.) in novel ecosystems. *Freshwater Biology* 58: 1029-1037.
- Daehne B: *Balanus improvisus* (Brackwasser-Seepocke). *Bewuchs-Atlas*. www.bewuchs-atlas.de/index.php?option=com_content&task=view&id=84&Itemid=59&orgtsn=89622&PHPSESSID=a3mbhui2s0abhg0p0v4bdm0ua5.
- DAISIE: Delivering alien invasive species inventories for Europe. <http://www.europe-aliens.org/>.
- Day MD, Wiley CJ, Playford J, Zalucki MP (2003) *Lantana*: Current management, status and future prospects. Australian Centre for International Agricultural Research, Canberra.
- Dietz H, Steinlein T, Ullmann I (1999) Establishment of the invasive perennial herb *Bunias orientalis* L.: An experimental approach. *Acta Oecologica - International Journal of Ecology* 20: 621-632.
- Donzé G, Fluri P, Imdorf A (1998) Hochorganisiertes Leben auf kleinem Raum: Die Fortpflanzung der *Varroa*-Milben in den verdeckelten Brutzellen der Bienenvölker. *Schweizerische Bienen-Zeitung* 121: 26-33.
- Dressel R, Jäger EJ (2002) Beiträge zur Biologie der Gefäßpflanzen des herzynischen Raumes. 5. *Quercus rubra* L. (Roteiche): Lebensgeschichte und agriophytische Ausbreitung im Nationalpark Sächsische Schweiz. *Hercynia N. F.* 35: 37-64.
- Duever LC: *Cinnamomum camphora*. http://www.floridata.com/ref/c/cinn_cam.cfm.
- East Lothian Beekeepers Association: *Varroa destructor* - A summary. <http://www.users.globalnet.co.uk/~msbain/elbka/Varroa%20destructor.pdf>.
- Eklöv P, Jonsson P (2007) Pike predators induce morphological changes in young perch and roach. *Journal of Fish Biology* 70: 155-164.
- Ellis JD, Zettel Nalen CM: *Varroa* mite (*Varroa destructor*). http://entnemdept.ufl.edu/creatures/misc/bees/varroa_mite.htm.
- Ernest SKM (2003) Life history characteristics of placental non-volant mammals. *Ecology* 84: 3402.
- Ernst CH, Altenburg RGM, Barbour RW: *Turtles of the World: Trachemys scripta* (Common slider). <http://wbd.etibioinformatics.nl/bis/turtles.php?selected=beschrijving&menuentry=soorten&record=Trachemys%20scripta>.

- Ernst WHO (1998) Invasion, dispersal and ecology of the South African neophyte *Senecio inaequidens* in The Netherlands: from wool alien to railway and road alien. *Acta Botanica Neerlandica* 47: 131-151.
- Ernsting G (1993) Observations on life cycle and feeding ecology of two recently introduced predatory beetle species in South Georgia, sub-Antarctic. *Polar Biology* 13: 423-428.
- Eurobodalla: Common prickly pear (*Opuntia stricta*). <http://www.esc.nsw.gov.au/>.
- Fisheries and Oceans Canada: Crayfish plague ("fungus" disease). <http://www.pac.dfo-mpo.gc.ca/science/species-especies/shellfish-coquillages/diseases-maladies/pages/cpfdcy-eng.htm>.
- Flores EE, Stevens M, Moore AJ, Blount JD (2013) Diet, development and the optimization of warning signals in post-metamorphic green and black poison frogs. *Functional Ecology* 27: 816-829. doi: 10.1111/1365-2435.12084.
- Fontenele O (1950) Contribuição para o conhecimento da biologia dos tucunarés (*Actinopterygii*, *Cichlidae*). Aparelho de reprodução, hábitos de desova e incubação. *Revista Brasileira de Biologia* 10: 503-519.
- Fritts TH, Rodda GH (1998) The role of introduced species in the degradation of island ecosystems: A case history of Guam. *Annual Review of Ecology and Systematics* 29: 113-140.
- Gao X, Endo H, Taniguchi K, Agatsuma Y (2013) Genetic differentiation of high-temperature tolerance in the kelp *Undaria pinnatifida* sporophytes from geographically separated populations along the Pacific coast of Japan. *Journal of Applied Phycology* 25: 567-574. doi: 10.1007/s10811-012-9891-4.
- Geng Y-P, Pan X-Y, Xu C-Y, Zhang W-J, Li B, Chen J-K (2006) Phenotypic plasticity of invasive *Alternanthera philoxeroides* in relation to different water availability, compared to its native congener. *Acta Oecologica - International Journal of Ecology* 30: 380-385.
- GISD (2013) Global Invasive Species Database by the IUCN Invasive Species Specialist Group (ISSG). <http://www.issg.org/database>.
- Gomiero LM, Braga FMS (2004) Reproduction of species of the genus *Cichla* in a reservoir in southeastern Brazil. *Brazilian Journal of Biology* 64: 613-624.
- Gottwald TR, Graham JH: Citrus canker. <http://www.apsnet.org/edcenter/intropp/lessons/prokaryotes/Pages/CitrusCanker.aspx>.

- Gouchie GM, Roberts LF, Wassersug RJ (2008) The effect of mirrors on African clawed frog (*Xenopus laevis*) larval growth, development, and behavior. *Behavioral Ecology and Sociobiology* 62: 1821-1829. doi: 10.1007/s00265-008-0611-7.
- Graham JH, Gottwald TR, Cubero J, Achor DS (2004) *Xanthomonas axonopodis* pv. *citri* : factors affecting successful eradication of citrus canker. *Molecular Plant Pathology* 5: 1-15.
- Guershon M, Gerling D (2001) Effect of foliar tomentosity on phenotypic plasticity in *Bemisia tabaci* (Horn., Aleyrodidae). *Journal of Applied Entomology* 125: 449-453. doi: 10.1046/j.1439-0418.2001.00571.x.
- Guershon M, Gerling D (2006) Effects of plant and prey characteristics on the predatory behavior of *Delphastus catalinae*. *Entomologia Experimentalis et Applicata* 121: 15-21. doi: 10.1111/j.1570-8703.2006.00455.x.
- Gurgel CFD, Fredericq S (2004) Systematics of the Gracilariaceae (Gracilariales, Rhodophyta): a critical assessment based on RBCL Sequence analyses. *Journal of Phycology* 40: 138-159.
- Harris DL: Khapra Beetle (*Trogoderma granarium* Everts). http://entomology.ifas.ufl.edu/creatures/urban/beetles/khapra_beetle.htm.
- Hayman P, Hume R (2002) *The Complete Guide to the Birdlife of Britain and Europe*. Smithsonian Institution Press, Washington D. C.
- Heinroth O (1922) Die Beziehungen zwischen Vogelgewicht, Eigewicht, Gelegegewicht und Brutdauer. *Journal fuer Ornithologie* 70: 172-285.
- Hodek I, Ceryngier P (2000) Sexual activity in Coccinellidae (Coleoptera): a review. *European Journal of Entomology* 97: 449-456.
- Holeski LM (2007) Within and between generation phenotypic plasticity in trichome density of *Mimulus guttatus*. *Journal of Evolutionary Biology* 20: 2092-100. doi: 10.1111/j.1420-9101.2007.01434.x.
- Hollander J, Collyer ML, Adams DC, Johannesson K (2006) Phenotypic plasticity in two marine snails: constraints superseding life history. *Journal of Evolutionary Biology* 19: 1861-72. doi: 10.1111/j.1420-9101.2006.01171.x.
- Hu JF, Angeli S, Schuetz S, Luo YQ, Hajek AE (2009) Ecology and management of exotic and endemic Asian longhorned beetle *Anoplophora glabripennis*. *Agricultural and Forest Entomology* 11. doi: 10.1111/j.1461-9563.2009.00443.x.
- IUCN (2013) IUCN Red List of Threatened Species. <http://www.iucnredlist.org>.
- Jackson DC (2002) Hibernating without oxygen: physiological adaptations of the painted turtle. *Journal of Physiology* 543: 731-737.

- Janis CM, Carrano M (1992) Scaling of reproductive turnover in archosaurs and mammals: why are large terrestrial mammals so rare? . *Annales Zoologici Fennici* 28: 201-216.
- Jeschke JM, Strayer DL (2006) Determinants of vertebrate invasion success in Europe and North America. *Global Change Biology* 12: 1608–1619. doi: 10.1111/j.1365-2486.2006.01213.x.
- Kaneda M, Kitagawa K, Ichinohe F (1990) Laboratory rearing method and biology of *Platydemus manokwari* de Beauchamp (Tricladida: Terricola: Rhynchodemidae). *Applied Entomology and Zoology* 25: 524-528.
- Kegel B (1999) Die Ameise als Tramp. Von biologischen Invasionen. Ammann Verlag, Zürich, 420 pp.
- Kekäläinen J, Huuskonen H, Kiviniemi V, Taskinen J (2010a) Visual conditions and habitat shape the coloration of the Eurasian perch (*Perca fluviatilis* L.): a trade-off between camouflage and communication? . *Biological Journal of the Linnean Society* 99: 47-59.
- Kekäläinen J, Kähkönen J, Kiviniemi V, Huuskonen H (2010b) Morphological variation of perch *Perca fluviatilis* in humic lakes: the effect of predator density, competition and prey abundance. *Journal of Fish Biology* 76: 787-799.
- Keller L, Ross KG (1993) Phenotypic plasticity and cultural transmission of alternative social organizations in the Fire ant *Solenopsis invicta*. *Behavioral Ecology and Sociobiology* 33: 121-129.
- Koch RL (2003) The multicolored Asian lady beetle, *Harmonia axyridis*: A review of its biology, uses in biological control, and non-target impacts. *Journal of Insect Science* 3.
- König C (1966) Europäische Vögel: Ziegenmelker, Segler, Racken, Spechte, Sperlingsvögel. Belser, Stuttgart.
- König C (1967) Europäische Vögel: Sumpf- und Wasservögel, Greifvögel, Hühnervögel, Kraniche, Tauben, Kuckucksvögel, Eulen. Belser, Stuttgart.
- Kraus F, Campbell EW, Allison A, Pratt T (1999) *Eleutherodactylus* frog introductions to Hawaii. *Herpetological Review* 30: 21-25.
- Krysko KL, King FW, Enge KM, Reppas AT (2003) Distribution of the introduced Black Spiny-tailed Iguana (*Ctenosaura similis*) on the southwestern coast of Florida. *Florida Scientist* 66: 74-79.

- Landenberger RE, Kota NL, McGraw JB (2006) Seed dispersal of the non-native invasive tree *Ailanthus altissima* into contrasting environments. *Plant Ecology* 192: 55-70.
- Lavoie C, Jean M, Delisle F, Letourneau G (2003) Exotic plant species of the St Lawrence River wetlands: a spatial and historical analysis. *Journal of Biogeography* 30: 537-549.
- Lebouvier M, Lambret P, Vernon P (2005) The alien beetle *Oopterus soledadinus* (Coleoptera: Carabidae) in the Kerguelen Islands: a major threat to native invertebrate communities. IXth SCAR International Biology Symposium (Curitiba, Brazil).
- Leger EA, Forister ML (2005) Increased resistance to generalist herbivores in invasive populations of the California poppy (*Eschscholzia californica*). *Diversity and Distributions* 11: 311-317. doi: 10.1111/j.1366-9516.2005.00165.x.
- Leger EA, Rice KJ (2003) Invasive California poppies (*Eschscholzia californica* Cham.) grow larger than native individuals under reduced competition. *Ecology Letters* 6: 257-264.
- Lemm J, Alberts A (1997) Guided by nature: Conservation research and captive husbandry of the Cuban iguana. *Reptiles* 5.
- Lennon JT, Smith VH, Williams K (2001) Influence of temperature on exotic *Daphnia lumholtzi* and implications for invasion success. *Journal of Plankton Research* 23: 425-433.
- Leppäkoski E (1999) *Balanus improvisus*. In: Gollasch S, Minchin D, Rosenthal H, Voigt M (Eds) *Exotics Across the Ocean. Case histories on introduced species: their general biology, distribution, range expansion and impact*. Logos (Berlin): 49.
- Lever C (1987) *Naturalized birds of the world*. Longman Scientific and Technical, New York.
- Li D, Liu Y (1997) Correlations between sexual development, age, maturation feeding, and mating of adult *Anoplophora glabripennis* Motsch. (Coleoptera: Cerambycidae). *Journal of Northwest Forestry College* 12: 19-23.
- Liberato JR, Queiroz-Voltan RB, Matsuoka K, Laranjeira FF, Miles AK: Citrus variegated chlorosis (*Xylella fastidiosa*).
<http://www.padil.gov.au/pests-and-diseases/Pest/Main/136652>.
- Lockley TC: Imported fire ants. <http://ipmworld.umn.edu/chapters/lockley.htm>.
- Lohmeyer W, Sukopp H (1992) Agriophyten in der Vegetation Mitteleuropas. *Schriftenreihe für Vegetationskunde* 25: 185.

- Lorenzo P, Gonzalez L, Reigosa MJ (2010) The genus *Acacia* as invader: the characteristic case of *Acacia dealbata* Link in Europe. *Annals of Forest Science* 67. doi: 10.1051/forest/2009082.
- Lott MC, Vollin JC, Pemberton RW, Austin DF (2003) The reproductive biology of the invasive ferns *Lygodium microphyllum* and *L. japonicum* (Schizaeaceae): Implications for invasive potential. *American Journal of Botany* 90: 1144-1152.
- Löwenberg Neto P, Navarro-Silva MA (2004) Development, longevity, gonotrophic cycle and oviposition of *Aedes albopictus* Skuse (Diptera: Culicidae) under cyclic temperatures. *Neotropical Entomology* 33: 29-33.
- Ma J-G, Shi F-C (2011) Effects of nutrient level on phenotypic plasticity of *Spartina alterniflora*. *Shengtaixue Zazhi* 30: 459-463.
- Mackie GL (1991) Biology of the exotic zebra mussel, *Dreissena polymorpha*, in relation to native bivalves and its potential impact in Lake St. Clair. *Hydrobiologia* 219: 251-268.
- Mackie GL, Gibbons WN, Muncaster BW, Gray IM (1989) The zebra mussel, *Dreissena polymorpha*: a synthesis of European experiences and a preview for North America. Rep. prep. for Wat. Resour. Br., Great Lakes Sect. .
- Maddison DR, Schulz K-S: The Tree of Life Web Project. <http://tolweb.org>.
- Maggi MD, Sardella NH, Ruffinengo SR, Eguaras MJ (2009) Morphotypes of *Varroa destructor* collected in *Apis mellifera* colonies from different geographic locations of Argentina. *Parasitology Research* 105: 1629-1636.
- Maloy OC: White pine blister rust. <http://www.apsnet.org/edcenter/intropp/lessons/fungi/Basidiomycetes/Pages/WhitePine.aspx>.
- Malumphy C, Walsh K, Suarez MB, Collins DW, Boonham N (2009) Morphological and molecular identification of all developmental stages of four whitefly species (Hemiptera: Aleyrodidae) commonly intercepted in quarantine. *Zootaxa* 2118: 1-29.
- Martin NA (1999) Whitefly: Biology, identification and life cycle. *Crop & Food Research, Broadsheet No. 91*: 1-8.
- Martin TE (1995) Avian life history evolution in relation to nest sites, nest predation, and food. *Ecological Monographs* 65: 101-127.
- Martinez-Meier A, Sanchez L, Dalla-Salda G, Gallo L, Pastorino M, Rozenberg P (2009) Ring density record of phenotypic plasticity and adaptation to drought in Douglas-fir. *Forest Ecology and Management* 258: 860-867. doi: 10.1016/j.foreco.2009.03.021.

- Martinez AJ, Lopez-Portillo J (2003) Allometry of *Prosopis glandulosa* var. *torreyana* along a topographic gradient in the Chihuahuan desert. *Journal of Vegetation Science* 14: 111-120. doi: 10.1111/j.1654-1103.2003.tb02133.x.
- Masterson J: *Osteopilus septentrionalis* (Cuban Treefrog). http://www.sms.si.edu/irlspec/Osteopilus_septentrionalis.htm.
- Mau RFL, Kessing JLM, Diez JM: *Bemisia tabaci* (Gennadius). http://www.extento.hawaii.edu/Kbase/Crop/Type/b_tabaci.htm.
- McLain DK, Moulton MP, Sanderson JG (1999) Sexual selection and extinction: the fate of plumage-dimorphic and plumage monomorphic birds introduced onto islands. *Evolutionary Ecology Research* 1: 549-565.
- Medical Ecology: Cholera. <http://www.medicalecology.org/water/cholera/cholera.htm>.
- Meshaka WE, Jr., Smith HT, Golden E, Moore JA, Fitchett S, Cowan EM, Engeman RM, Sekscienski SR, Cress HL (2007) Green Iguanas (*Iguana iguana*): the unintended consequence of sound wildlife management practices in a south Florida park. *Herpetological Conservation and Biology* 2: 149-156.
- Messing RH, Tremblay EB, Mondor RG, Footitt RG, Pike KS (2007) Invasive aphids attack native Hawaiian plants. *Biological Invasions* 9: 601-607.
- Michie LJ, Mallard F, Majerus MEN, Jiggins FM (2010) Melanic through nature or nurture: genetic polymorphism and phenotypic plasticity in *Harmonia axyridis* *Journal of Evolutionary Biology* 23: 1699-1707. doi: DOI: 10.1111/j.1420-9101.2010.02043.x.
- Michie LJ, Masson A, Ware RL, Jiggins FM (2011) Seasonal phenotypic plasticity: wild ladybirds are darker at cold temperatures. *Evolutionary Ecology* 25: 1259-1268. doi: DOI: 10.1007/s10682-011-9476-8.
- Millar JS (1981) Pre-partum reproductive characteristics of eutherian mammals. *Evolution* 35: 1149-1163.
- Miller NG, Trigoboff N (2001) A European feather moss, *Pseudoscleropodium purum*, naturalized widely in New York State in cemeteries. *Bryologist* 104: 98-103. doi: 10.1639/0007-2745(2001)104[0098:aefmpp]2.0.co;2.
- Miller PJ (2003) *The Freshwater Fishes of Europe - Volume 8/I: Mugilidae, Atherinidae, Atherinopsidae, Blennidae, Odontobutidae, Gobiidae 1.* Aula (Wiebelsheim).
- Miller PJ (2004) *The Freshwater Fishes of Europe - Volume 8/II: Gobiidae 2.* Aula (Wiebelsheim).

Mills SC (2012) Density-dependent prophylaxis in the coral-eating crown-of-thorns sea star, *Acanthaster planci*. *Coral Reefs* 31: 603-612. doi: 10.1007/s00338-012-0883-2.

Monitor-Lizards: *Varanus indicus* (Daudin 1802) Pazifikwaran. <http://www.monitor-lizards.net/german/species/euprepiosaurus/indicus.html>.

Montana Water Center: Whirling disease initiative. <http://whirlingdisease.montana.edu/default.asp>.

Monty A, Bizoux J-P, Escarre J, Mahy G (2013) Rapid plant invasion in distinct climates involves different sources of phenotypic variation. *Plos One* 8: e55627. doi: 10.1371/journal.pone.0055627.

Morisawa T: Red imported fire ant: *Solenopsis invicta* Buren. The Nature Conservancy, Wildland Invasive Species Program. <http://www.invasive.org/gist/moredocs/solinv01.pdf>.

Mou P, Jones RH, Tan Z, Bao Z, Chen H (2012) Morphological and physiological plasticity of plant roots when nutrients are both spatially and temporally heterogeneous. *Plant and Soil* 364: 373-384. doi: 10.1007/s11104-012-1336-y.

Myers P, Espinosa CS, Parr CS, Jones T, Hammond GS, Dewey TA: The animal diversity web (online). <http://animaldiversity.ummz.umich.edu/>.

Nalepa CA, Weir A (2007) Infection of *Harmonia axyridis* (Coleoptera: Coccinellidae) by *Hesperomyces virescens* (Ascomycetes: Laboulbeniales): Role of mating status and aggregation behavior. *Journal of Invertebrate Pathology* 94: 196-203.

Niinemets U, Valladares F, Ceulemans R (2003) Leaf-level phenotypic variability and plasticity of invasive *Rhododendron ponticum* and non-invasive *Ilex aquifolium* co-occurring at two contrasting European sites. *Plant Cell and Environment* 26: 941-956. doi: 10.1046/j.1365-3040.2003.01027.x.

NIMPIS: *Caulerpa taxifolia*, National Introduced Marine Pest Information System. <http://data.daff.gov.au/marinepests/>.

NIMPIS: *Undaria pinnatifida* general information. <http://data.daff.gov.au/marinepests/index.cfm?fa=main.spDetailsDB&sp=6000016623>.

NOBANIS: European network on invasive alien species. Gateway to information on invasive alien species in North and Central Europe. <http://www.nobanis.org/>.

Ostrowski T, Mahn T: Artbeschreibung *Dendrobates auratus*. http://www.dendrobases.de/html/D_dendrobates_auratus.html.

- Oyieke HA (1994) The effect of phenotypic plasticity on agar from *Gracilaria salicornia* (J.AG.) Dawson (Gracilariales, Rhodophyta) in Kenya. *Bioresource Technology* 49: 267-271.
- Pahl AT, Kollmann J, Mayer A, Haider S (2013) No evidence for local adaptation in an invasive alien plant: field and greenhouse experiments tracing a colonization sequence. *Annals of Botany* 112,1921-1930.
- Paquette A, Fontaine B, Berninger F, Dubois K, Lechowicz MJ, Messier C, Posada JM, Valladares F, Brisson J (2012) Norway maple displays greater seasonal growth and phenotypic plasticity to light than native sugar maple. *Tree Physiology* 32: 1339-1347. doi: 10.1093/treephys/tps092.
- Parker IM, Rodriguez J, Loik ME (2003) An evolutionary approach to understanding the biology of invasions: local adaptation and general-purpose genotypes in the weed *Verbascum thapsus*. *Conservation Biology* 17: 59-72. doi: 10.1046/j.1523-1739.2003.02019.x.
- Pearse DE, Janzen FJ, Avise JC (2002) Multiple paternity, sperm storage, and reproductive success of female and male painted turtles (*Chrysemys picta*) in nature. *Behavioral Ecology and Sociobiology* 51: 164-171.
- Poulin J, Sakai AK, Weller SG, Nguyen T (2007) Phenotypic plasticity, precipitation, and invasiveness in the fire-promoting grass *Pennisetum setaceum* (Poaceae). *American Journal of Botany* 94: 533-541.
- Purvis A, Harvey PH (1995) Mammal life-history evolution: a comparative test of Charnov's model. *Journal of Zoology* 237: 259-283.
- Rao NS, Veeresh GK (1991) Some observations on the biology and behavior of crazy ant, *Anoplolepis longipes* Jerdon (Hymenoptera, Formicidae). *Entomon* 16: 261-267.
- Reynolds JA, Poelchau MF, Rahman Z, Armbruster PA, Denlinger DL (2012) Transcript profiling reveals mechanisms for lipid conservation during diapause in the mosquito, *Aedes albopictus*. *Journal of Insect Physiology* 58: 966-973. doi: 10.1016/j.jinsphys.2012.04.013.
- Richter S, Kipfer T, Wohlgemuth T, Calderon Guerrero C, Ghazoul J, Moser B (2012) Phenotypic plasticity facilitates resistance to climate change in a highly variable environment. *Oecologia* 169: 269-79. doi: 10.1007/s00442-011-2191-x.
- Riis T, Lambertini C, Olesen B, Clayton JS, Brix H, Sorrell BK (2010) Invasion strategies in clonal aquatic plants: are phenotypic differences caused by phenotypic plasticity or local adaptation? *Annals of Botany* 106: 813-22. doi: 10.1093/aob/mcq176.

- Rivers L: Water Lettuce (*Pistia stratiotes*). <http://www.iisgcp.org/EXOTICSP/waterlettuce.htm>.
- Rowe JW, Clark DL, Price M, Tucker JK (2009) Reversible melanization following substrate color reversal in Midland painted turtles (*Chrysemys picta marginata*) and Red-eared sliders (*Trachemys scripta elegans*). *Journal of Herpetology* 43: 402-408.
- Ryser P, Eek L (2000) Consequences of phenotypic plasticity vs. interspecific differences in leaf and root traits for acquisition of aboveground and belowground resources. *American Journal of Botany* 87: 402-411.
- Savidge JA, Qualls FJ, Rodda GH (2007) Reproductive biology of the Brown Tree Snake, *Boiga irregularis* (Reptilia: Colubridae), during colonization of Guam and comparison with that in their native range. *Pacific Science* 61: 191-199.
- Schaffelke B, Campbell ML, Hewitt CL (2005) Reproductive phenology of the introduced kelp *Undaria pinnatifida* (Phaeophyceae, Laminariales) in Tasmania, Australia. *Phycologia* 44: 84-94.
- Schoener TW (1968) Sizes of feeding territories among birds. *Ecology* 49: 123-131.
- Seebacher F, Franklin CE (2011) Physiology of invasion: cane toads are constrained by thermal effects on physiological mechanisms that support locomotor performance. *Journal of Experimental Biology* 214: 1437-44. doi: 10.1242/jeb.053124.
- Sever DM, Hamlett WC (2002) Female sperm storage in reptiles. *Journal of Experimental Zoology* 292: 187-199.
- Shine R (2012) Invasive species as drivers of evolutionary change: cane toads in tropical Australia. *Evolutionary Applications* 5: 107-116. doi: 10.1111/j.1752-4571.2011.00201.x.
- Sin H, Radford A (2007) Coqui frog research and management efforts in Hawai'i. In: Witmer GW, Pitt WC, Fagerstone KA (Eds) *Managing vertebrate invasive species: Proceedings of an international symposium*. USDA/APHIS/WS, National Wildlife Research Center (Fort Collins, CO).
- Skalova H, Havlickova V, Pysek P (2012) Seedling traits, plasticity and local differentiation as strategies of invasive species of *Impatiens* in central Europe. *Annals of Botany* 110: 1429-1438. doi: 10.1093/aob/mcr316.
- Söber V, Ramula S (2013) Seed number and environmental conditions do not explain seed size variability for the invasive herb *Lupinus polyphyllus*. *Plant Ecology* 214: 883-892. doi: 10.1007/s11258-013-0216-8.

- Solensky MJ, Larkin E (2003) Temperature-induced Variation in Larval Coloration in *Danaus plexippus* (Lepidoptera: Nymphalidae). *Annals of the Entomological Society of America* 96: 211-216. doi: 10.1603/0013-8746(2003)096[0211:TVILCI]2.0.CO;2.
- Stauffer JR, Gray EV (2004) Phenotypic plasticity: its role in trophic radiation and explosive speciation in cichlids (Teleostei: Cichlidae). *Animal Biology* 54: 137-158. doi: 10.1163/1570756041445191.
- Stockwell CA, Vinyard GL (2000) Life history variation in recently established populations of western mosquitofish (*Gambusia affinis*). *Western North American Naturalist* 60: 273-280. doi: 10.2307/41717043.
- Suiter DR, Jones SC, Forschler BT: Biology of subterranean termites in the Eastern United States. Bulletin 1209.
<http://ohioline.osu.edu/b1209/index.html>.
- Sun X-F, Ren M-X, Wang G, Tan G-J, He J-Q, Huang X-D, Ping J, Ge J-L (2008) Photosynthetic Physiology and Clonal Growth of *Solidago canadensis* at Different Light Intensities: Implications for Invasive Mechanism. *Plant Science Journal* 26: 620-626.
- Svenbäck R, Eklöv P (2006) Genetic variation and phenotypic plasticity: causes of morphological and dietary variation in Eurasian perch. *Evolutionary Ecology Research* 8: 37-49.
- Todd PA, Oh J, Loke LHL, Ladle RJ (2012) Multi-scale phenotype-substrate matching: Evidence from shore crabs (*Carcinus maenas* L.). *Ecological Complexity* 12: 58-62. doi: 10.1016/j.ecocom.2012.09.005.
- Townsend JH, Krysko KL, Enge KM (2003) Introduced iguanas in southern Florida: A history of more than 35 years. *Iguana* 10: 111-120.
- Trepl L (1984) Über *Impatiens parviflora* DC. als Agriophyt in Mitteleuropa. J. Cramer, Vaduz, 400 pp.
- Trtikova M, Edwards PJ, Gusewell S (2010) No adaptation to altitude in the invasive plant *Erigeron annuus* in the Swiss Alps. *Ecography* 33: 556-564. doi: 10.1111/j.1600-0587.2009.05708.x.
- University of Hawaii: *Acanthophora spicifera*. http://www.hawaii.edu/reefalgae/invasive_algae/rhodo/acanthophora_spicifera.htm.
- US Forest Service: Pacific Island Ecosystems at Risk (PIER): *Morella faya*. http://www.hear.org/pier/species/morella_faya.htm.
- USDA: GRIN: Germplasm Resources Information Network. <http://www.ars-grin.gov>.
- USDA: The PLANTS Database. <http://plants.usda.gov>.

- Van Buskirk J (2011) Amphibian phenotypic variation along a gradient in canopy cover: species differences and plasticity. *Oikos* 120: 906-914. doi: 10.1111/j.1600-0706.2010.18845.x.
- Verdaguer D, Sala A, Vilà M (2010) Effect of environmental factors and bulb mass on the invasive geophyte *Oxalis pes-caprae* development. *Acta Oecologica* 36: 92-99. doi: 10.1016/j.actao.2009.10.006.
- Vitousek PK, Walker LR (1989) Biological invasion by *Myrica faya* in Hawaii: plant demography, nitrogen fixation, ecosystem effects. *Ecological Monographs* 59: 247-265.
- Vourlitis GL, Kroon JL (2013) Growth and Resource Use of the Invasive Grass, Pampasgrass (*Cortaderia selloana*), in Response to Nitrogen and Water Availability. *Weed Science* 61: 117-125. doi: 10.1614/ws-d-11-00220.1.
- Walsh PT, Downie JR, Monaghan P (2009) Predation-induced plasticity in metamorphic duration in *Xenopus laevis*. *Functional Ecology* 22: 699-705. doi: 10.1111/j.1365-2435.2008.01429.x.
- Wang M, Feng Y, Li X (2006a) Effects of soil phosphorus level on morphological and photosynthetic characteristics of *Ageratina adenophora* and *Chromolaena odorata*. *Yingyong Shengtai Xuebao* 17: 602-606.
- Wang T, Hung CCY, Randall DJ (2006b) The comparative physiology of food deprivation: from feast to famine. *Annual Review of Physiology* 68: 223-251. doi: 10.1146/annurev.physiol.68.040104.105739.
- Wang TH, Zhou DW, Wang P, Zhang HX (2006c) Size-dependent reproductive effort in *Amaranthus retroflexus*: the influence of planting density and sowing date. *Canadian Journal of Botany-Revue Canadienne De Botanique* 84: 485-492. doi: 10.1139/b06-011.
- Weber E, D'Antonio CM (1999) Phenotypic plasticity in hybridizing *Carpobrotus* spp. (Aizoaceae) from coastal California and its role in plant invasion. *Canadian Journal of Botany-Revue Canadienne De Botanique* 77: 1411-1418.
- Weber MJ, Rounds KD, Brown ML (2012) Phenotypic variation and associated predation risk of juvenile common carp *Cyprinus carpio*. *Journal of Fish Biology* 80: 49-60.
- Work KA, Gophen M (1999) Factors which affect the abundance of an invasive cladoceran, *Daphnia lumholtzi*, in U.S. reservoirs. *Freshwater Biology* 42: 1-10.

- Xu F, Guo W, Wang R, Xu W, Du N, Wang Y (2009) Leaf movement and photosynthetic plasticity of black locust (*Robinia pseudoacacia*) alleviate stress under different light and water conditions. *Acta Physiologiae Plantarum* 31: 553-563. doi: 10.1007/s11738-008-0265-0.
- Yee DA, Juliano SA, Vamosi SM (2012) Seasonal photoperiods alter developmental time and mass of an invasive mosquito, *Aedes albopictus* (Diptera: Culicidae), across its north-south range in the United States. *Journal of Medical Entomology* 49: 825-832. doi: 10.1603/ME11132.