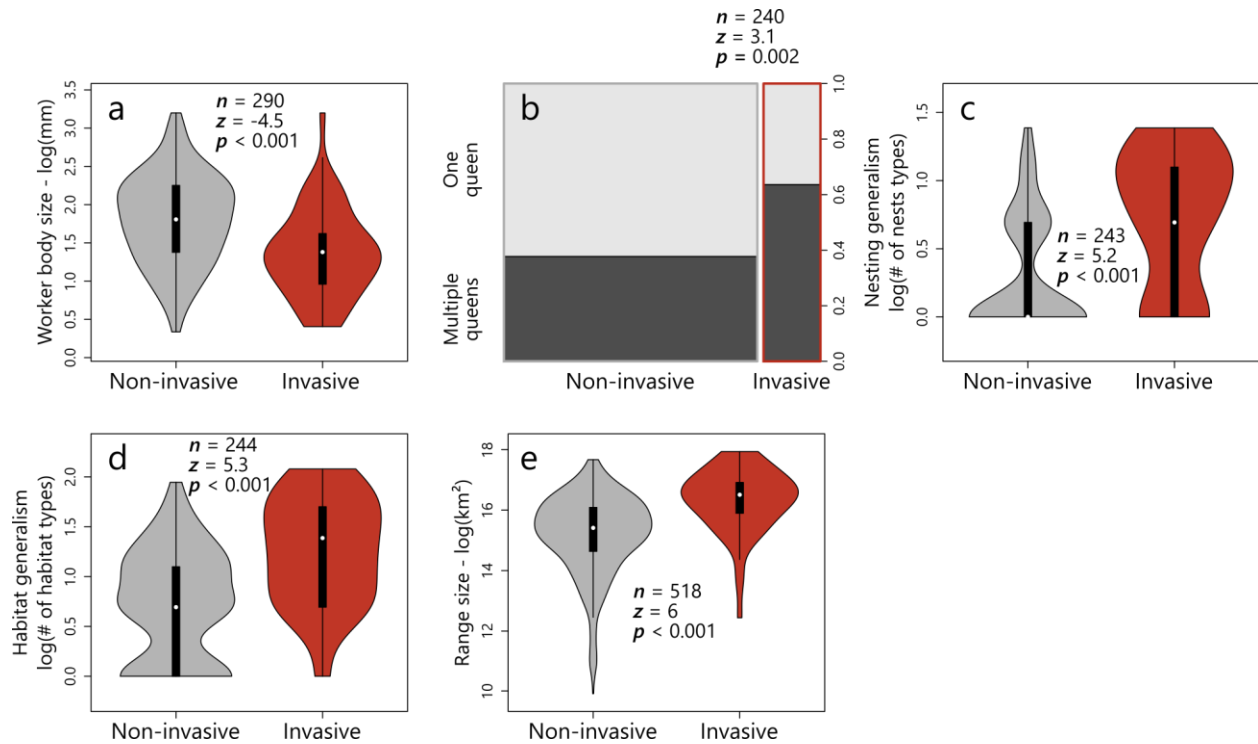
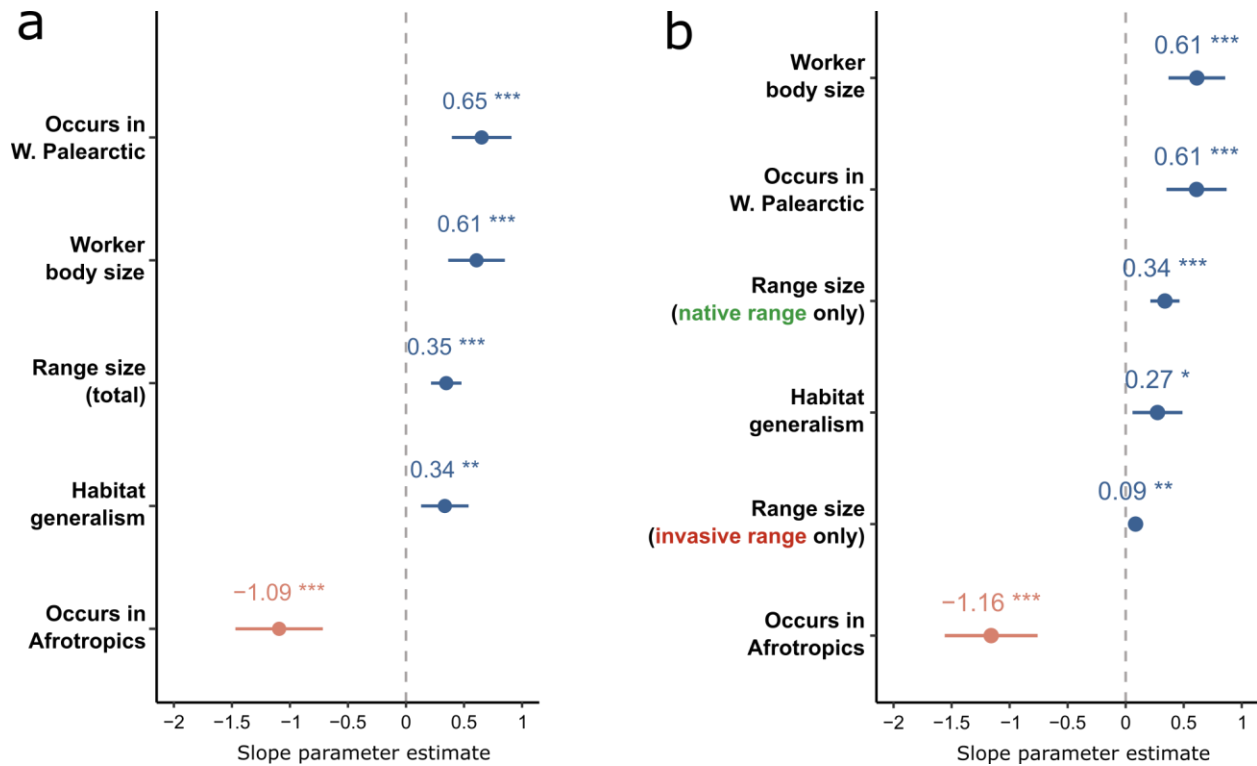


**Figure S1. Euler diagram of the overlap between datasets used for studying the global pet trade. (A) Overlap between invasive and traded species, for each taxonomic group. (B) Overlap between the different pet trade datasets used, for each taxonomic group.**



**Figure S2. Characteristics of ants that are associated with invasiveness.** We used univariate binomial GLMs to test the links between invasiveness and five ant species' characteristics: **(A)** worker body size, **(B)** Number of queens, **(C)** Nesting generalism, **(D)** Habitat generalism and **(E)** Range size. Sample size ( $n$ ), tests' statistics ( $z$ ) and p-values ( $p$ ) are indicate in each panel. **(A, C, D, E)** Violin plots show the probability density of the data at different values (y axes). **(B)** Proportion (y axis; on the right) of monogynous (light grey) and polygynous (dark grey) species in non-invasive ( $n = 196$ ) and invasive ( $n = 44$ ) species. The width of the bars is relative to the number of species in each group.



**Figure S3. Predictors' estimates of the best-fitting model explaining ants' commercial success.** For (A) the model considering the total range size (native and invasive parts of the range together) and (B) the model considering native and invasive parts of the range size as separate predictors. Dots represent mean estimates and associated lines 95% confidence intervals. Asterisks represent significant difference from 0 (\*\*\*:  $P < 0.001$ , \*\*:  $P < 0.01$ , \*:  $P < 0.05$  and .:  $P < 0.1$ ).

**Table S1. Invasive species overrepresentation in plants, vertebrates and ants traded as pets and ornamentals.**

Traded taxon (Information source)	Number of species in global pool	Number of invasive species in global pool	Percent of global	Number of traded species	Number of traded invasive species	Percent of traded	Degree of overrepresentation	$\chi^2$ test	Sources (global and traded species pools)
Plants (Global - Internet trade)	110,498	542	0.49	1,798	206	11.46	<b>23.4</b>	$\chi^2 = 4448.6$ ; $df = 1$ $P < 0.0001$	Humair et al. 2015
Marine and freshwater fish (Greece - Pet shops 2011)	32,851	914	2.78	326	119	36.50	<b>13.1</b>	$\chi^2 = 1370.5$ ; $df = 1$ $P < 0.0001$	www.fishbase.org Papavasopoulou et al. 2014
Marine fish (Switzerland - Importations 2009)	13,778	261	1.89	408	56	13.73	<b>7.2</b>	$\chi^2 = 307.3$ ; $df = 1$ $P < 0.0001$	www.fishbase.org Biondo 2017
Marine fish (England - Aquarium shops 2011)				344	54	15.70	<b>8.3</b>	$\chi^2 = 352.7$ ; $df = 1$ $P < 0.0001$	www.fishbase.org Pinnegar & Murray 2019
Mammals (Global - CITES & IUCN)	6,015	215	3.57	503	75	14.91	<b>4.2</b>	$\chi^2 = 146.9$ ; $df = 1$ $P < 0.0001$	www.mammaldiversity.org Scheffers et al. 2019
Mammals (Global - CITES & literature review 2006-2012)				31	8	25.81	<b>7.2</b>	$\chi^2 = 44.1$ ; $df = 1$ $P < 0.0001$	www.mammaldiversity.org Bush et al. 2014
Birds (Global - CITES & IUCN)	10,327	492	4.76	3,690	438	11.87	<b>2.5</b>	$\chi^2 = 410.6$ ; $df = 1$ $P < 0.0001$	www.birds.cornell.edu Scheffers et al. 2019
Birds (Global - CITES & literature review 2006-2012)				230	81	35.22	<b>7.4</b>	$\chi^2 = 470.1$ ; $df = 1$ $P < 0.0001$	www.birds.cornell.edu Bush et al. 2014
Birds (Taiwan - Pet shops 2012)				246	70	28.46	<b>6.0</b>	$\chi^2 = 304.3$ ; $df = 1$ $P < 0.0001$	www.birds.cornell.edu Su et al. 2014
Reptiles (Global - CITES & IUCN)	10,603	255	2.40	899	86	9.57	<b>4.0</b>	$\chi^2 = 196.4$ ; $df = 1$ $P < 0.0001$	www.reptile-database.org Scheffers et al. 2019
Reptiles (Global - CITES & literature review 2006-2012)				243	74	30.45	<b>12.7</b>	$\chi^2 = 814.4$ ; $df = 1$ $P < 0.0001$	www.reptile-database.org Bush et al. 2014
Reptiles (USA - LEMIS + internet trade)				1,433	196	13.68	<b>5.7</b>	$\chi^2 = 775.8$ ; $df = 1$ $P < 0.0001$	www.reptile-database.org Stringham & Lockwood 2018
Amphibians (Global - CITES & IUCN)	7,385	77	1.04	335	28	8.36	<b>8.0</b>	$\chi^2 = 173.8$ ; $df = 1$ $P < 0.0001$	www.amphibiaweb.org Scheffers et al. 2019
Amphibians (Global - Literature review 1971-2018)				438	41	9.36	<b>9.0</b>	$\chi^2 = 293.7$ ; $df = 1$ $P < 0.0001$	www.amphibiaweb.org Mohanty & Measey 2019
Amphibians (USA - LEMIS + internet trade)				282	26	9.22	<b>8.8</b>	$\chi^2 = 182.8$ ; $df = 1$ $P < 0.0001$	www.amphibiaweb.org Stringham & Lockwood 2018
Ants (Global internet trade)	15,377	255	1.66	520	57	10.96	<b>6.6</b>	$\chi^2 = 276$ ; $df = 1$ $P < 0.0001$	www.antmaps.org This study

**Table S2. Internet search for websites selling ants. Search expression used to detect websites on Google search.**

Language	Search expressions					
<b>English</b>	<b>buy living ants</b>	<b>buy queen ant</b>	<b>buy ant colony</b>	<b>living ants for sale</b>	<b>queen ant for sale</b>	<b>ant colony for sale</b>
<b>Arabic</b>	شراء النمل المعيشة	شراء ملكة النمل	شراء مستعمرة النمل	النمل المعيشة للبيع	ملكة النمل للبيع	مستعمرة النمل للبيع
<b>Chinese (simplified)</b>	买活蚂蚁	购买蚁后	购买蚁群	出售活蚂蚁	蚁后出售	蚂蚁殖民地出售
<b>Dutch</b>	koop levende mieren	koop koningin mier	koop mierenkolonie	levende mieren te koop	koningin mier te koop	mierenkolonie te koop
<b>Finnish</b>	ostaa eläviä muurahaisia	osta kuningatar muurahainen	osta muurahaiskolonia	eläviä muurahaisia myytävänä	kuningatar muurahainen myytävänä	ant kolonia myytävänä
<b>French</b>	acheter fourmis vivantes	acheter reine de fourmi	acheter colonie de fourmis	fourmis vivantes à vendre	reine de fourmi à vendre	colonie de fourmis à vendre
<b>German</b>	kaufen Sie lebende Ameisen	kaufen Sie Königin Ameise	ameisenkolonie kaufen	lebende Ameisen zu verkaufen	königin Ameise zu verkaufen	ameisenkolonie zu verkaufen
<b>Hindi</b>	जीवित चींटियों को खरीदे	रानी चींटी खरीदे	चींटी कॉलोनी खरीदे	बिक्री के लिए जीवित चींटियों	बिक्री के लिए रानी चींटी	बिक्री के लिए चींटी कॉलोनी
<b>Italian</b>	Compra le formiche viventi	acquista formica regina	acquista una colonia di formiche	formiche vive in vendita	Formica regina in vendita	colonia di formiche in vendita
<b>Japanese</b>	生きているアリをかう	女王アリをかう	アリのコロニーを購入する	生きているアリ	女王アリ	アリのコロニー販売
<b>Korean</b>	살아있는 개미를 사다	여왕 개미를 사다	개미 식민지 구매	살아있는 개미 판매	여왕 개미 판매	개미 식민지 판매
<b>Malay</b>	membeli semut hidup	beli semut ratu	beli koloni semut	semut hidup untuk dijual	semut ratu untuk dijual	koloni semut untuk dijual
<b>Persian</b>	مورچه های زنده بخريد	مورچه ملکه را بخريد	کلونی مورچه را بخريد	مورچه های زنگی برای فروش	مورچه ملکه برای فروش	مستعمرة مورچه برای فروش
<b>Polish</b>	kup żywe mrówki	kup królową mrówkę	kup kolonię mrówek	żywe mrówki na sprzedaż	królowa mrówek na sprzedaż	kolonia mrówek na sprzedaż
<b>Portuguese</b>	comprar formigas vivas	comprar formiga rainha	comprar colónia de formigas	formigas vivas à venda	formiga rainha para venda	colónia de formigas à venda
<b>Russian</b>	купить живых муравьев	купить королеву муравьев	купить муравьиную колонию	живые муравьи на продажу	королева муравьев для продажи	колония муравьев для продажи
<b>Spanish</b>	comprar hormigas vivas	comprar reina de hormiga	comprar colonia de hormigas	hormigas vivas en venta	reina de hormigas en venta	colonia de hormigas en venta
<b>Swedish</b>	köpa levande myror	köp drottning myr	köp myrkoloni	levande myror till salu	drottningmyr till salu	myrkoloni till salu
<b>Turkish</b>	canlı karıncalar satın al	kraliçe karınca satın al	karınca kolonisi satın Alın	satılık yaşayan karıncalar	satılık kraliçe karınca	satılık karınca kolonisi
<b>Vietnamese</b>	mua kiến sống	mua kiến chúa	mua đàn kiến	kiến sống để bán	kiến chúa để bán	bán kiến

**Table S3.** List of the 65 websites selling ant colonies detected in 2017. Each website corresponds to one seller, except for one (www.antcanada.com) which is a platform where ant sellers can register and propose ants for sale. This website corresponded, at the time of the survey, to 45 sellers (we considered one seller by country or states for North America). The internet archive tool Webarchive (<http://web.archive.org/>) can be used to visit past version of the websites.

Website	Country	Year of first activity	Number of species sold
<a href="http://hormigalia.com">http://hormigalia.com</a>	Spain	2002	5
<a href="http://www.antstore.net">www.antstore.net</a>	Germany	2003	338
<a href="http://www.ant-home.idv.tw/888/shopping/shopping-Product/shopping-p-ant/shopping-p-a16.htm">http://www.ant-home.idv.tw/888/shopping/shopping-Product/shopping-p-ant/shopping-p-a16.htm</a>	Taiwan	2006	13
<a href="http://www.fourmis.fr">www.fourmis.fr</a>	France	2006	4
<a href="http://www.bugdesign.com.ua/ant-colonies/">www.bugdesign.com.ua/ant-colonies/</a>	Ukraine	2006	12
<a href="http://www.ants-kalytta.com">www.ants-kalytta.com</a>	Germany	2007	119
<a href="http://www.ongewoonongewerveld.nl">www.ongewoonongewerveld.nl</a>	Netherlands	2008	3
<a href="http://www.antshop.ru">www.antshop.ru</a>	Russia	2008	9
<a href="http://www.anthouse.es">www.anthouse.es</a>	Spain	2008	10
<a href="http://arinko-spot.com/SHOP/16561/list.html">http://arinko-spot.com/SHOP/16561/list.html</a>	Japan	2010	3
<a href="http://www.fourmishome.fr">www.fourmishome.fr</a>	France	2010	55
<a href="http://fourmis-boutique.fr">http://fourmis-boutique.fr</a>	France	2010	31
<a href="http://www.world-of-ants.com">www.world-of-ants.com</a>	Germany	2010	239
<a href="http://www.mierenboerderij.nl">www.mierenboerderij.nl</a>	Netherlands	2010	4
<a href="http://www.antscanada.com">www.antscanada.com</a>	Canada	2010	149
<a href="http://antroom.cart.fc2.com">http://antroom.cart.fc2.com</a>	Japan	2011	19
<a href="http://antsuk.com">http://antsuk.com</a>	UK	2011	6
<a href="http://www.antsfromasia.com">www.antsfromasia.com</a>	UK	2011	12
<a href="http://www.fourmis-city.com">www.fourmis-city.com</a>	France	2012	24
<a href="http://www.antdealer.com">www.antdealer.com</a>	Germany	2012	45
<a href="http://www.mrowkoyad.pl">www.mrowkoyad.pl</a>	Poland	2012	22
<a href="http://www.tropicalhouse.co.uk">www.tropicalhouse.co.uk</a>	UK	2012	2
<a href="http://www.tropicalhouse.co.uk">www.tropicalhouse.co.uk</a>	UK	2012	2
<a href="http://www.empireofants.com/onlineshop/">www.empireofants.com/onlineshop/</a>	Taiwan	2013	21
<a href="https://myants.de">https://myants.de</a>	Germany	2013	22
<a href="http://antplanet.ru">http://antplanet.ru</a>	Russia	2013	20
<a href="http://petsfunny.ru/nasekomye/muravi/">http://petsfunny.ru/nasekomye/muravi/</a>	Russia	2013	25
<a href="http://昆虫-アリの飼育-販売のアントファーム.com/html/ari_itiran.html">http://昆虫-アリの飼育-販売のアントファーム.com/html/ari_itiran.html</a>	Japan	2013	2
<a href="https://murashdom.ru">https://murashdom.ru</a>	Russia	2014	18
<a href="https://antkit.uk">https://antkit.uk</a>	UK	2014	3
<a href="http://www.microfaune.com">www.microfaune.com</a>	France	2015	8
<a href="http://www.exotic-ants.de">www.exotic-ants.de</a>	Germany	2015	18
<a href="http://www.simants.de">www.simants.de</a>	Germany	2015	3
<a href="http://www.britishants.com">www.britishants.com</a>	UK	2015	25
<a href="http://antcity.in.ua/collection/muravi">http://antcity.in.ua/collection/muravi</a>	Ukraine	2015	4
<a href="https://planetexotic.ru/zivotnye/muravi/">https://planetexotic.ru/zivotnye/muravi/</a>	Russia	2015	13
<a href="http://www.surungenpazari.com/AhKategoriler.aspx?id=152">www.surungenpazari.com/AhKategoriler.aspx?id=152</a>	Turkey	2015	2
<a href="http://www.ants-squadshop.com">www.ants-squadshop.com</a>	Taiwan	2016	28
<a href="http://www.gamergate.com.au">www.gamergate.com.au</a>	Australia	2016	25
<a href="http://www.mierenspecialist.nl">www.mierenspecialist.nl</a>	Netherlands	2016	14
<a href="http://4ants.ru/collection/muravi">http://4ants.ru/collection/muravi</a>	Russia	2016	3
<a href="http://www.antskingdom.com">www.antskingdom.com</a>	UK	2016	3
<a href="http://www.antkeeping.co.uk">www.antkeeping.co.uk</a>	UK	2016	2
<a href="http://www.leafcuttingants.com">www.leafcuttingants.com</a>	UK	2016	1
<a href="https://antshome.at">https://antshome.at</a>	Austria	2016	11
<a href="http://www.antworldafrica.com">www.antworldafrica.com</a>	South Africa	2017	4
<a href="http://antmalaysia.wixsite.com/mysite">http://antmalaysia.wixsite.com/mysite</a>	Malaysia	2017	5
<a href="http://antshungary.com">http://antshungary.com</a>	Hungary	2017	26
<a href="http://www.antnederland.nl">www.antnederland.nl</a>	Netherlands	2017	2
<a href="http://www.mundhormiga.com">www.mundhormiga.com</a>	Spain	2017	8
<a href="http://www.ameisenshop.ch">www.ameisenshop.ch</a>	Switzerland	2017	3
<a href="http://www.ameisenhaltung.ch">www.ameisenhaltung.ch</a>	Switzerland	2017	18
<a href="http://www.antsmynala.co.uk">www.antsmynala.co.uk</a>	UK	2017	38
<a href="http://www.antsrus.com">www.antsrus.com</a>	UK	2017	13
<a href="http://www.occultusants.com">www.occultusants.com</a>	UK	2017	2
<a href="http://117colonies.com">http://117colonies.com</a>	USA	2017	10
<a href="https://ausants.com">https://ausants.com</a>	Australia	2017	15
<a href="https://hailesaquiriums.com">https://hailesaquiriums.com</a>	Australia	2017	3
<a href="http://www.mondoformiche.it">www.mondoformiche.it</a>	Italy	2017	17
<a href="http://www.antnederland.nl">www.antnederland.nl</a>	Netherlands	2017	2
<a href="http://www.antforall.co.uk">www.antforall.co.uk</a>	UK	2017	2
<a href="https://aimayi.world.taobao.com/category-951704253.htm?spm=a312a.7700824.w4010-9325627583.8.4b83bb9z0KqE&amp;search=y&amp;catName=%BE%AB%C6%B7%C2%EC%D2%CF%bd">https://aimayi.world.taobao.com/category-951704253.htm?spm=a312a.7700824.w4010-9325627583.8.4b83bb9z0KqE&amp;search=y&amp;catName=%BE%AB%C6%B7%C2%EC%D2%CF%bd</a>	China	na	52
<a href="https://antssingapore.wixsite.com/ants">https://antssingapore.wixsite.com/ants</a>	Singapore	na	3
<a href="http://www.antmate.com.au">www.antmate.com.au</a>	Australia	na	7
<a href="http://www.antcenter.pl">www.antcenter.pl</a>	Poland	na	18

**Table S4.** The geography of the global ant trade. Contingency table representing the number of species from each ecozone (i.e. assuming that species were harvested in their native range) traded by sellers from each ecozone. Values correspond to Fig. 2.

	Species Native range							Number of sellers
	Af	Au	In	Nea	Neo	EPa	WPa	
<b>Af</b>	4	0	0	0	0	0	0	1
<b>Au</b>	0	31	0	0	0	0	0	6
<b>In</b>	10	8	72	8	12	6	14	11
<b>Nea</b>	0	1	2	64	3	2	3	28
<b>Neo</b>	0	0	0	0	5	0	0	2
<b>EPa</b>	0	3	5	0	0	14	0	3
<b>WPa</b>	18	33	72	30	85	47	132	58

**Table S5.** Parameter estimates and statistics for the best-fitting model. **(A)** When the model is fitted with the total range size (native + invasive). **(B)** When the model is fitted using native and invasive range size as two separate variables.

<b>a</b>	<b>Predictor</b>	<b>Slope <math>\pm</math> s.e.</b>	<b>z value</b>	<b>P</b>	
	Intercept	-5.7 $\pm$ 1.10	-5.18	<0.0001	***
<b>Possible geographical origin</b>	Occurs in W. Palearctic	0.65 $\pm$ 0.13	4.98	<0.0001	***
	Occurs in Afrotropics	-1.09 $\pm$ 0.19	-5.69	<0.0001	***
<b>Traits link to invasiveness</b>	Range size (native + invasive)	0.34 $\pm$ 0.07	5.18	<0.0001	***
	Worker body size	0.61 $\pm$ 0.13	4.89	<0.0001	***
	Habitat generalism	0.33 $\pm$ 0.10	3.21	0.001	**

<b>b</b>	<b>Predictor</b>	<b>Slope <math>\pm</math> s.e.</b>	<b>z value</b>	<b>P</b>	
	Intercept	-6.33 $\pm$ 1.13	-5.63	<0.0001	***
<b>Possible geographical origin</b>	Occurs in W. Palearctic	0.61 $\pm$ 0.13	4.61	<0.0001	***
	Occurs in Afrotropics	-1.16 $\pm$ 0.20	-5.68	<0.0001	***
<b>Traits link to invasiveness</b>	Native range size	0.34 $\pm$ 0.06	5.27	<0.0001	***
	Invasive range size	0.09 $\pm$ 0.03	2.74	0.006	**
	Worker body size	0.61 $\pm$ 0.13	4.92	<0.0001	***
	Habitat generalism	0.27 $\pm$ 0.11	2.5	0.013	*