

Supplementary material

Appendix 1

Regions (n = 60) included in this study with geographical variables, and their alien Pinaceae respective Cupressaceae species numbers. Legend: reg. abbr.: region abbreviation; hem.: Hemisphere (N: northern/S: southern); cont.: continent; zon.: zoniobiome; ann. prec.: average annual precipitation; ann. temp.: average annual temperature; pop. dens.: average population density (people km⁻²); GDP per capita: average per capita GDP (year 2000); lat. range: latitudinal range of the region; alt. range: altitudinal range of the region; native vasc. plant sp.: native vascular plant species number; native Pinaceae sp.: native Pinaceae species number; native Cupressaceae sp.: native Cupressaceae species number; alien conif. plant. (%): alien conifer plantation (in % of region area); naturalized Pinaceae sp.: number of naturalized Pinaceae species; naturalized Cupressaceae sp.: number of naturalized Cupressaceae species.

no	region	reg. abbr.	hem.	island	cont.	zonob.	area [km ²]	ann. prec. (mm)	ann. temp. (°C)	pop. dens. (people km ⁻²)	GDP (USD per capita)	lat. range (geog. degr.)	alt. range (m)	native vasc. plant sp.	native Pinaceae sp.	native Cupressaceae sp.	alien confif. plant. (%)	naturalized Pinaceae sp.	naturalized Cupressaceae sp.
1	Austria	Aust	N	no	Europe	nemor	84013	1037.3	5.8	97.5	20.097	2.66	3693	2950	8	2	0.2	3	2
2	Azores	Azor	N	yes	Europe	ocean temp	2361	1104.6	15.8	103.1	14.022	2.88	2351	197	0	1	1.5	1	1
3	Balears	Bale	N	yes	Europe	medit	5010	598.8	16.2	134.4	18.017	0.45	1445	1359	2	2	0.2	0	1
4	Belgium	Belg	N	no	Europe	nemor	30668	855.5	9.5	339.7	20.742	1	694	1700	1	1	9	4	0
5	Canary Islands	Cana	N	yes	Europe	medit	7454	287.6	17.4	194.5	15.269	1.6	3718	1300	1	1	0.1	3	0
6	Corse	Cors	N	yes	Europe	medit	8731	731.2	12.8	28.3	12.027	1.65	2706	2150	6	4	0.2	4	0
7	Czech Republic	Czec	N	no	Europe	nemor	78876	662.0	7.4	129.6	9.047	2.74	1500	2256	6	1	0.45	3	0
8	Finland	Finl	N	no	Europe	boreal	337968	560.6	1.3	15.5	20.235	10.45	1324	1500	2	1	0.7	5	0
9	France	Fran	N	no	Europe	nemor	540685	816.5	10.5	111.9	20.808	8	4808	4650	11	5	0.4	11	3
10	Germany	Germ	N	no	Europe	nemor	358025	727.2	8.4	231.0	18.596	7.15	2962	2700	7	1	0.6	3	2
11	Hungary	Hung	N	no	Europe	nemor	93032	586.1	10.4	108.5	7.138	2.83	930	2268	0	1	0.1	2	0
12	Italy	Ital	N	no	Europe	medit	251645	863.4	11.6	230.9	18.740	8.96	4808	5600	13	4	0.2	4	3
13	Lithuania	Lith	N	no	Europe	nemor	64886	663.1	6.2	52.9	15.858	2.4	294	1072	2	1	0.1	11	1
14	Madeira	Made	N	yes	Europe	ocean temp	806	663.6	15.2	336.8	14.022	0.4	1862	793	0	1	0.5	3	3
15	Netherlands	Neth	N	no	Europe	nemor	35896	781.7	9.3	454.1	21.591	2.58	321	1500	0	1	2.5	3	0
16	Norway	Norw	N	no	Europe	boreal	323997	1036.1	1.1	14.3	24.364	13.27	2469	1366	2	1	0.9	9	0
17	Poland	Pola	N	no	Europe	nemor	311886	594.8	7.6	123.5	7.215	5.8	2499	2350	7	2	0.1	6	1
18	Portugal	Port	N	no	Europe	medit	88862	846.6	15.0	118.1	14.022	5.52	1993	4850	2	3	0.5	2	0
19	Republic of Ireland	Irel	N	yes	Europe	nemor	70452	1099.9	9.2	58.9	22.015	3.95	1041	1000	0	1	7.5	9	1
20	Sardinia	Sard	N	yes	Europe	medit	24160	629.7	14.9	68.7	10.113	2.5	1834	2089	3	3	0.5	0	1
21	Sicily	Sici	N	yes	Europe	medit	25782	524.3	15.6	201.6	12.022	1.7	3323	2350	3	3	0.2	0	1
22	Spain	Spai	N	no	Europe	medit	493598	616.8	13.0	91.3	15.269	7.66	3482	5050	8	6	0.7	5	3
23	Sweden	Swed	N	no	Europe	boreal	449964	628.7	2.3	20.1	20.321	14	2111	1900	2	1	1.3	4	0
24	Switzerland	Swit	N	no	Europe	nemor	41233	1321.1	5.0	175.9	22.025	1.95	4634	2600	7	2	0.3	1	2
25	United Kingdom	UK	N	yes	Europe	nemor	246252	1148.8	8.1	242.3	19.817	8.72	1344	1800	1	1	9	16	4
26	Washington	Wash	N	no	N America	nemor	184665	720.0	7.5	35.0	28.170	3.4	4392	3300	15	5	0	3	0
27	Oregon	Oreg	N	no	N America	ocean temp	254805	650	7.2	14.5	24.548	4	3426	3000	24	10	0.01	3	0

28	California	Cali	N	no	N America	medit	423970	440	13.4	89.9	29.212	9.5	4418	3423	34	17	0.1	2	0
29	Tennessee	Tenn	N	no	N America	nemor	109151	1.150	11.3	55.3	23.717	1.7	1850	2267	10	3	0.02	1	0
30	West Virginia	WVir	N	no	N America	nemor	62755	1.100	10.7	29.0	20.793	3.4	1409	1739	11	4	0.05	3	0
31	Ohio	Ohio	N	no	N America	nemor	116096	930	10.1	98.9	24.563	2.25	333	1800	7	4	0.02	3	0
32	Pennsylvania	Penn	N	no	N America	nemor	119283	980	10.3	104.3	27.147	2	979	2176	14	5	0.05	7	0
33	Virginia	Virg	N	no	N America	nemor	110785	1140.0	12.7	69.0	29.149	3.85	1746	2412	14	5	0.05	3	0
34	North Carolina	NCar	N	no	N America	ocean temp	153509	1160.0	14.4	60.1	23.772	2.9	2037	2800	12	5	0.1	6	0
35	Michigan	Mich	N	no	N America	nemor	147121	810.0	7.9	68.6	24.908	5.2	429	2100	8	3	0.4	6	2
36	New York	NYor	N	no	N America	nemor	141299	900.0	9.3	72.9	32.456	3.5	1629	2078	14	5	0.1	7	0
37	Arkansas	Arka	N	no	N America	ocean temp	137732	1170.0	14.4	20.4	20.990	3.5	641	2510	4	3	0	0	0
38	Colorado	Colo	N	no	N America	arid	269601	290.0	9.5	17.6	29.112	4	3979	3088	10	5	0	0	0
39	Oklahoma	Okla	N	no	N America	arid	181035	740.0	13.1	19.8	23.878	3.35	1121	2193	4	6	0	0	0
40	NZ North Island	NZNI	S	yes	Austral_ NZ	ocean temp	114597	1150.0	12.9	27	16.832	7.3	2797	1800	0	2	6	13	6
41	NZ South Island	NZSI	S	yes	Austral_ NZ	nemor	151757	1450.0	9.3	6.7	13.876	6.3	3754	1900	0	2	4	19	2
42	NZ Stewart Island	NZSt	S	yes	Austral_ NZ	nemor	1746	1490.0	9.8	0.3	13.876	0.7	980	585	0	0	0	1	0
43	Chatham Islands	NZCh	S	yes	Austral_ NZ	ocean temp	966	855.0	11.3	0.6	13.876	0.5	287	250	0	0	0	0	0
44	Victoria (Australia)	Vict	S	no	Austral_ NZ	ocean temp	227420	810.0	14.5	22.2	20.550	5.15	1986	4349	0	5	1	12	4
45	W Australia	WAu	S	no	Austral_ NZ	medit	200000	530.0	17.5	9.5	26.831	5.2	654	6500	0	6	0.2	8	1
46	New South Wales	NSW	S	no	Austral_ NZ	ocean temp	800640	670.0	17.9	8.4	20.428	9	2228	4677	0	10	0.3	10	3
47	Tasmania	Tasm	S	yes	Austral_ NZ	ocean temp	90758	1480.0	10.2	5.5	17.087	3	1614	1627	0	6	0.8	2	1
48	Eastern Cape province (S Africa)	Ecap	S	no	Africa	medit	169580	450.0	13.0	38.0	7.000	3.95	3001	4000	0	0	0.3	7	1
49	Western Cape province (S Africa)	WCap	S	no	Africa	medit	129370	560.0	15.4	37	13.773	2.9	2325	8579	0	3	0.5	8	2

4	50	Argentina: Chubut	ArCh	S	no	S America	arid	224686	430.0	10.3	2	6.696	4	2600	500	0	2	0.5	4	0
	51	Argentina: Rio Negro	ArRN	S	no	S America	arid	203013	650.0	11.8	2.7	5.833	3.8	3460	650	0	2	0.5	7	1
	52	Argentina: Neuquen	ArNe	S	no	S America	arid	94078	530.0	10.2	5.0	8.750	5.05	3540	650	0	1	0.8	4	1
	53	Argentina: Corodoba	ArCo	S	no	S America	ocean temp	165321	950.0	12.2	18.6	5.381	5.5	2850	800	0	0	0.3	6	0
	54	Argentina: Buenos Aires	ArBA	S	no	S America	ocean temp	307571	925.0	15.5	45.0	4.631	7.7	1230	800	0	0	0.2	5	1
	55	Falkland Islands	Falk	S	yes	S America	boreal	12200	500.0	5.3	0.3	17.090	1.2	705	171	0	0	0	0	0
	56	S Chile: Region VIII (Bio-Bio)	ChVIII	S	no	S America	medit	37062	1130.0	9.5	50.2	7.670	2.5	3212	745	0	1	16.5	4	0
	57	S Chile: Region IX (Araucania)	ChIX	S	no	S America	ocean temp	31842	1290.0	8.8	27.3	4.682	1.75	3124	665	0	1	8.5	4	0
	58	S Chile: Region X (Los Lagos)	ChX	S	no	S America	ocean temp	67013	1500.0	7.9	16.0	6.674	4.73	3740	547	0	3	1.6	2	0
	59	S Chile: Region XI (Aisen)	ChXI	S	no	S America	boreal	107153	1450.0	5.5	0.9	9.563	4.7	4058	368	0	1	0.1	2	0
	60	Juan Fernandez Islands	ChJF	S	yes	S America	ocean temp	181	1100.0	13.0	3.3	8.544	0.14	1650	209	0	0	1	1	2

Appendix 2

Naturalized Pinaceae and Cupressaceae species in the 60 regions included in this study, presented as comma separated text file (CSV).
Legend: taxon name, family, native range, forestry species (yes/no).

Download <Appendix 2.csv>

Appendix 3

Data sources for records of alien Pinaceae and Cupressaceae species in the 60 regions included in this study. Additional unpublished data have been provided by colleagues (see acknowledgements).

Ref no	Reference	Region
1	Adamowski, W. 2004. Why don't alien conifers invade the Bialowieza Forest? – <i>Weed Technol.</i> 18: 1453–1456.	Poland
2	Adamowski, W. et al. 2002. Atlas of alien woody species of the Bialowieza primeval forest. – <i>Phytocoenosis</i> 14 (N.S.) Supplementum Cartographiae Geobotanicae, Warszawa-Bialowieza.	Poland
3	Adolphi K. 1995. Neophytische Kultur- und Anbaupflanzen des Rheinlandes. – <i>Nardus</i> 2: 1–271.	Germany
4	Adolphi, K. 1997. Neophytische Kultur- und Anbaupflanzen als Kulturflüchtlinge des Rheinlandes, 1. Nachtrag. – <i>Osnabrücker Naturwissenschaftliche Mitteilungen</i> 23: 27–36.	Germany
5	Avis, A. M. 1989. A Review of coastal dune stabilization in the Cape Province of South Africa. – <i>Landscape Urban Plann.</i> 18: 55–68.	Western Cape Province (S Africa)
6	Baker, M. L. 2005. Contributions to a catalogue of alien plants in Tasmania 1. – <i>Pap. Proc. R. Soc. Tasmania</i> 139: 33–48.	Tasmania
7	Barbero, M. et al. 1998. Pines of the Mediterranean Basin. – In: Richardson, D. M. (ed.), <i>Ecology and biogeography of Pinus</i> . Cambridge Univ. Press, pp. 153–170.	South Europe
8	Borges, P. A. V. et al. 2005. A list of the terrestrial fauna (Mollusca and Arthropoda) and flora (Bryophyta, Pteridophyta and Spermatophyta) from the Azores. – <i>Univ. dos Açores, Angra do Heroísmo</i> .	Azores
9	Botond, M. and Botta-Dukat, B. 2004. Biológiai invaziók magyarországon Özönnövények. – <i>Alapítvány Kiado, Budapest</i> .	Hungary
10	Brodbeck, T. et al. 1997. Flora von Basel und Umgebung 1980-96. Band 1. – Sonderdruck der Mitteilungen der Naturforschenden Gesellschaften beider Basel.	Switzerland
11	Broncano, M. J. et al. 2005. Evidence of <i>Pseudotsuga menziesii</i> naturalization in montane Mediterranean forests. – <i>For. Ecol. Manage.</i> 211: 247–263.	Spain
12	Broughton, D. A. and McAdam, J. H. 2004. A checklist of the native vascular flora of the Falkland Islands (Islas Malvinas). New information on the species present, their ecology, status and distribution. – <i>J. Torrey Bot. Soc.</i> 132: 115–148.	Falkland Islands
13	Buchanan, A. 1995. A census of the vascular plants of Tasmania, 3rd ed. – <i>Tasmanian Herbarium Occasional Publication No. 6</i> . Tasmanian Herbarium, Hobart.	Tasmania
14	Burns, C. and Sauer, J. 1992. Resistance by natural vegetation in the San Gabriel Mountains of western California to invasion by introduced conifers. – <i>Global Ecol. Biogeogr. Lett.</i> 2: 46–51.	California
15	Bustamante, R. O. and Simonetti, J. A. 2005. Is <i>Pinus radiata</i> invading the native vegetation in central Chile? Demographic responses in a fragmented forest. – <i>Biol. Invasions</i> 7: 243–249.	Chile
16	Castro, S. A. et al. 2005: Minimum residence time, biogeographical origin, and life cycle as determinants of the geographical extent of naturalized plants in continental Chile. – <i>Divers. Distrib.</i> 11: 183–191	Chile
17	Celesti-Grapow, L. et al. 2009. The inventory of the nonnative flora of Italy. – <i>Plant Biosyst.</i> 143: 386–430.	Italy, Sicily, Sardinia
18	Clement, E. K. and Foster, M. C. 1994. Alien plants of the British Isles. – <i>Botanical Society of the British Isles</i> .	UK
19	Cook, D. B. 1939. European larch reproduces in New York. – <i>J. For.</i> 11: 891–893.	New York
20	Cozzo, D. 1994. Conversion de plantaciones forestales de especies exóticas en sistemas sostenibles en Argentina. – <i>Investigación Agraria Sistemas y Recursos Forestales</i> 3: 31–42.	Argentina
21	Cuevas, Y. A. and Zalba, S. M. 2009. Recovery of native grasslands after removing invasive pines. – <i>Restor. Ecol.</i> doi: 10.1111/j.1526-100X.2008.00506.x	Buenos Aires
22	Da Silva Vieira, R. M. 2002. Flora da Madeira Plantas Vasculares Naturalizadas No Arquipélago da Madeira. – <i>Boletim do Museu Municipal do Funchal (História Natural) suppl.</i> 8: 5–281.	Madeira
23	DAISIE 2009. Delivering alien invasive species inventories for Europe. – <www.europe-aliens.org/>, accessed 12 March 2009.	Europe
24	DeFerrari, C. M. and Naiman, R. J. 1994. A multi-scale assessment of the occurrence of exotic plants on the Olympic Peninsula, Washington. – <i>J. Veg. Sci.</i> 5: 247–258.	Washington
25	Dirnböck, T. et al. 2003. Predicting future threats to the native vegetation of Robinson Crusoe Island, Juan Fernández Archipelago, Chile. – <i>Conserv. Biol.</i> 17: 1650–1659.	Juan Fernandez Islands
26	Essl, F. and Rabitsch, W. 2002: Neobiota in Österreich. – <i>Umweltbundesamt, Vienna</i> .	Austria

- 27 Essl, F. 2005. Verbreitung, Status und Habitatbindung der subspontanen Bestände der Douglasie (*Pseudotsuga menziesii*) in Österreich. – *Phyton* 451: 117–144. Austria
- 28 Essl, F. 2007. Distribution, status and habitat preference of white pine (*Pinus strobus*) in Austria. – *Tuexenia* 27: 59–72. Austria
- 29 FNA Editorial Committee 1993. Flora of North America. North of Mexico Volume 2: Pteridophytes and Gymnosperms. – Oxford Univ. Press. USA
- 30 Frank, D. and Finckh, M. 1997. Impactos de las plantaciones de pino oregón sobre la vegetación y el suelo en la zona centro-sur de Chile. – *Rev. Chilena Hist. Nat.* 70: 191–211. Chile
- 31 Fremsted, E. and Elven, R. 1997. Alien plants in Norway and dynamics of the flora – a review. – *Norsk Geogr. Tidsskr.* 51: 199–218. Norway
- 32 Gatehouse, H. A. W. 2008. Ecology of the naturalisation and geographic distribution of the non-indigenous seed plant species of New Zealand. – Unpublished PhD thesis, Lincoln Unive., Canterbury, New Zealand.
- 33 Greimler, J. et al. 2002. Plant invasion on an oceanic archipelago. – *Biol. Invasions* 4: 72–85. Juan Fernandez Islands
- 34 Gudzinskas, Z. 2000. Conspectus of alien plant species of Lithuania. 15. Azollaceae, Pinaceae and Salicaceae. – *Bot. Lithuanica* 6: 235–242. Lithuania
- 35 Guerrero, P. C. and Bustamante, R. O. 2007. Can native tree species regenerate in *Pinus radiata* plantations in Chile? Evidence from field and laboratory experiments. – *For. Ecol. Manage.* 253: 97–102. Chile
- 36 Harmon, P. J. et al. 2006. Checklist and atlas of the vascular flora of West Virginia. – West Virginia Division of Natural Resources, Wildlife Resources Section, Elkins, WV. West Virginia
- 37 Heenan, P. B. et al. 1999. Checklist of dicotyledons, gymnosperms, and pteridophytes naturalised or casual in New Zealand: additional records 1997–1998. – *N. Z. J. Bot.* 37: 629–642. New Zealand
- 38 Heenan, P. B. et al. 2004. Checklist of dicotyledons, gymnosperms, and pteridophytes naturalised or casual in New Zealand: additional records 2001–2003. – *N. Z. J. Bot.* 797–814. New Zealand
- 39 Heenan, P. B. et al. 2008. Checklist of dicotyledons, gymnosperms, and pteridophytes naturalised or casual in New Zealand: additional records 2004–2006. – *N. Z. J. Bot.* 45: 257–283. New Zealand
- 40 Henderson, L. 1992. Invasive alien woody plants in the eastern Cape. – *Bothalia* 22: 119–143. Eastern Cape Province (S Africa)
- 41 Henderson, L. 2001. Alien weeds and invasive plants. A complete guide to declared weeds and invaders in South Africa. – Cape Town, South Africa, Agricultural Research Council. South Africa
- 42 Hill, K. D. 1998. Pinophyta. – In: Orchard, A. E. (ed.), *Flora of Australia* vol. 48, Ferns, Gymnosperms and allied groups. CSIRO, Canberra, pp. 505–596. Australia
- 43 Hosking, J. R. et al. 2007. Plant species first recognised as naturalised for New South Wales in 2002 and 2003, with additional comments on species recognised as naturalised in 2000–2001. – *Cunninghamia* 10: 139–166. New South Wales
- 44 Hosking, J. R. et al. 2003. Plant species first recognised as naturalised for New South Wales over the period 2000–2001. – *Cunninghamia* 8: 175–187. New South Wales
- 45 Hrusa, F. et al. 2002. Catalogue of non-native vascular plants occurring spontaneously in California beyond those addressed in The Jepson Manual. Part I. – *Madrono* 49: 61–98. California
- 46 Hunter, G. G. and Douglas, M. H. 1984. Spread of exotic conifers on the South Island Rangelands. – *N. Z. J. For.* 29: 78–96. New Zealand
- 47 Izquierdo, I. et al. (eds) 2001. Lista de especies silvestres de Canarias (hongos, plantas y animales terrestres). – Consejería de Política Territorial y Medio Ambiente del Gobierno de Canarias. Canary Islands
- 48 Jäger, E. and Werner, K. 2002. *Exkursionsflora von Deutschland* 4: Gefäßpflanzen: Kritischer Band. – Spektrum Akademischer Verlag. Germany
- 49 Johnson, F. L. and Hoagland, B. W. 2009. Catalog of the woody plants of Oklahoma: descriptions and range maps. – <www.biosurvey.ou.edu/shrub/shrubndx.htm>, accessed 20 March 2009. Oklahoma
- 50 Kilgore, J. S. and Telewski, F. W. 2004. Restoring the jack pine barrens: a long term common garden experiment. – *For. Ecol. Manage.* 189: 171–187. Michigan
- 51 Kowarik, I. 1992. Einführung und Ausbreitung nichtheimischer Gehölzarten in Berlin und Brandenburg. – *Verhandlungen des Botanischen Vereins Berlin-Brandenburg* 3: 1–188. Germany
- 52 Krivanek, M. et al. 2006. Planting history and propagule pressure as predictors of invasion by woody species in a temperate region. – *Conserv. Biol.* 20: 1487–1498. Czech Republic
- 53 Landolt, E. 1994. Beiträge zur Flora der Stadt Zürich: 1. Einleitung: Beschreibung der neuen “Flora”; Pteridophyten und Gymnospermen. – *Bot. Helv.* 104: 157–170. Switzerland
- 54 Leege, L. M. and Murphy, P. G. 2000. Growth of the non-native *Pinus nigra* in four habitats on the sand dunes of Lake Michigan. – *For. Ecol. Manage.* 126: 191–200. Michigan

- 55 Legard, N. 2007. The rise and fall of introduced conifers on Molesworth station (NZ). – <www.wildingconifers.org.nz/index.php?option=com_contentandtask=viewandid=13andItemid=19>. NZ South Island
- 56 Lindholm, T. and Tiainen, J. 1982. Dispersal and establishment of an introduced conifer, the Siberian fir *Abies sibirica*, in a memorial forest in southern Finland. – Ann. Bot. Fenn. 19: 235–245. Finland
- 57 Littlefield, E. W. 1942. *Pinus thunbergii*: a successful exotic on the North Atlantic coast. – J. For. 40: 561–573. New York
- 58 Low, A. J. 1986. Tree planting in the Falkland Islands. – Forestry 59: 59–84. Falkland Islands
- 59 Mack, R. N. 2003. Phylogenetic constraint, absent life forms, and preadapted alien plants: a prescription for biological invasions. – Int. J. Plant Sci. 164: 185–196. Falkland Islands
- 60 Mahon, D. J. 2007. Canterbury naturalised vascular plant checklist. – Dept of Conservation, Christchurch. NZ South Island
- 61 Mariticonema, C. and Rodriguez, R. 1995. Flora de Chile. Vol 1: Pteridophyta-Gymnospermae. – Univ. de Concepcion, Concepcion. Chile
- 62 Williams M. C. and Wardle, G. M. 2007. *Pinus radiata* invasion in Australia: identifying key knowledge gaps and research directions. – Austral Ecol. 32: 721–739. Australia
- 63 Moragues Botey, E. 2005. Flora alóctona de las Islas Baleares. – PhD thesis, <www.tdr.cesca.es/TDX/TDX_UIB/TESIS/AVAILABLE/TDX-0919106-115259//temb1de1.pdf>. Balearics
- 64 Moragues, E. and Rita, J. 2005. Els vegetals introduïts a les Illes Balears. Documents Tècnics de Conservació. – Conselleria de Medi Ambient, Govern de les Illes Balears, Palma de Mallorca. Balearics
- 65 Mortensen, S. G. and Mack, R. N. 2006. The fate of alien conifers in long-term plantings in the USA. – Divers. Distrib. 12: 456–466. USA
- 66 New York Flora Association 2009. New York flora atlas. – <http://newyork.plantatlas.usf.edu/Genus.aspx?id=233>, accessed 20 March 2009. New York
- 67 NN 2009. FloraBase – the Western Australian flora. – <http://florabase.calm.wa.gov.au>, accessed 10 March 2009. West Australia
- 68 NN 2009. Invasive plant atlas of the United States. – <www.invasive.org/weedus/list.html>, accessed 10 March 2009. USA
- 69 NN 2009. The Oklahoma vascular plants database. – <www.oklahomaplantdatabase.org/>, accessed 14 March 2009. Oklahoma
- 70 Nobanis 2009. European network on invasive alien species. Database and factsheets. – <www.nobanis.org/>, accessed 20 February 2009. North and Central Europe
- 71 Oregon Plant Project 2009. Oregon plant atlas. – <www.oregonflora.org/atlas.php>, accessed 16 March 2009. Oregon
- 72 Oyen, B. H. 2001. Vestamerikansk hemlock: gjokungen blant innførte bartraer i Vest-Norge? (Western hemlock: an invasive introduced conifer in western Norway.) – Blyttia 59: 208–216. Norway
- 73 Peña, E. et al. 2008. Patterns of spread of *Pinus contorta* Dougl. ex Loud invasion in a natural reserve in southern South America. – For. Ecol. Manage. 256: 1049–1054. Chile
- 74 Peña, E. and Pauchard, A. 2001. Coníferas introducidas en áreas protegidas: un riesgo para la biodiversidad. – Bosque Nativo 30: 3–7. Chile
- 75 Preston, C. D. et al. 2002. New Atlas of the British and Irish flora. – Oxford Univ. Press. UK, Republic of Ireland
- 76 Pyšek, P. et al. 2002. Catalogue of alien plants of the Czech Republic. – Preslia 74: 97–186. Czech Republic
- 77 Reaser, J. K. et al. 2003. Unwanted guests: the invasion of non-native species. – In: Galindo-Leal, C. (ed.), The Atlantic forest of South America: biodiversity, status, threats, and outlook. Island Press, pp. 392–405. Argentina
- 78 Reynolds, S. C. P. 2002. A catalogue of alien plants in Ireland. – National Botanic Gardens, Glasnevin, Ireland, <www.botanicgardens.ie/glasra/aliens.htm>, accessed 17 March 2009. Republic of Ireland
- 79 Rhoads, A. F. et al. 2000. The plants of Pennsylvania. An illustrated manual. – Univ. of Pennsylvania Press. Pennsylvania
- 80 Richardson, D. M. and Brown, P. J. 1986. Invasion of mesic mountain fynbos by *Pinus radiata*. – South Afr. J. Bot. 52: 529–536. Western Cape Province (S Africa)
- 81 Richardson, D. M. 2006. *Pinus*: a model group for unlocking the secrets of alien plant invasions. – Preslia 78: 375–388. global
- 82 Richardson, D. M. et al. 1990. Assessing the risk of invasive success in *Pinus* and *Banksia* in South African Mountain Fynbos. – J. Veg. Sci. 1: 629–642. Western Cape Province (S Africa)
- 83 Richardson, D. M. and Higgins, S. J. 1998. Pines as invaders in the southern hemisphere. – In: Richardson, D. M. (ed.), Ecology and biogeography of *Pinus*. Cambridge Univ. Press, pp. 450–473. Southern hemisphere
- 84 Richardson, D. M. and Rejmanek, M. 2004. Conifers as invasive aliens: a global survey and predictive framework. – Divers. Distrib. 10: 321–331. global

- 85 Richardson, F. J. et al. 2006. Weeds of the southeast. – Weed Society of Victoria, Meredith, VIC. Victoria
- 86 Richardson, D. M. et al. 2007. Alien conifer invasions in South America: short fuse burning? – Biol. Invasions 10: 573–577. Argentina
- 87 Ross, J. H. and Walsh, N. G. 2003. A census of the vascular plants of Victoria, 7th ed. – National Herbarium of Victoria, Melbourne. Victoria
- 88 Rouget, M. et al. 2002. Commercially important trees as invasive aliens – towards spatially explicit risk assessment at a national scale. – Biol. Invasions 4: 397–412. global
- 89 Rourke, J. P. 1991. *Tetraclinis articulata*, a hitherto unrecorded naturalized alien conifer in South Africa. – Bothalia 21 62–64. Western Cape Province (S Africa)
- 90 Rozefelds, A. C. F. et al. 1999. The weed invasion in Tasmania since 1970. – Aust. J. Bot. 47: 23–48. Tasmania
- 91 Sanz-Elorza, M. et al. 2004. Atlas de las Plantas Aloctonas Invasoras en Espana. – Direccion General para la Biodiversidad, Ministerio de Medio Ambiente, Madrid Spain, Balearics
- 92 NN 2009. Scientific and common names of known exotic plant species in the Redwood National and State Parks. – <www.nps.gov/archive/redw/epsplist.htm>, accessed 5 March 2009. California
- 93 Simberloff, D. et al. 2009. Spread and impact of introduced conifers in South America: lessons from other southern hemisphere regions. – Austral Ecol. 35: 489–504. Southern hemisphere
- 94 Simberloff, D. et al. 2002. Gringos en el bosque: introduced tree invasion in a native Nothofagus/Astrocedrus forest. – Biol. Invasions 4: 35–53. Argentina
- 95 Simberloff, D. et al. 2003. Introduced species and management of a Nothofagus/Austrocedrus forest. – Environ. Manage. 31: 263–275. Argentina
- 96 Solarz, W. 2009. Alien species recorded in Poland. Alien species Polish database. – Inst. of Nature Conservation, Polish Academy of Sciences, Kraków Poland, <www.iop.krakow.pl/ias/list.asp>, accessed 5 March 2009. Poland
- 97 Higgins, S. I. et al. 1999. Predicting the landscape-scale distribution of alien plants and their threat to plant diversity. – Conserv. Biol. 13: 303–313. Western Cape Province (S Africa)
- 98 Swenson, U. et al. 1997. New and historical plant introductions, and potential pests in the Juan Fernandez Islands, Chile. – Pac. Sci. 51: 233–253. Juan Fernandez Islands
- 99 Sykes, W. R. 1981. Checklist of Gymnospermae naturalised in New Zealand. – N. Z. J. Bot. 19: 339–341. New Zealand
- 100 Taylor, H. C. et al. 1985. Invasive alien plants in the Cape of Good Hope Nature Reserve. II. Results of a second survey from 1976 to 1980. – South Afr. J. Bot. 51: 21–29. Western Cape Province (S Africa)
- 101 Tumiłowicz, J. 1988. Ocena dotychczasowych wyników uprawy żywotnika olbrzymiego (*Thuja plicata* Donn ex D. Don) w środowisku leśnym w Polsce. (Results of cultivation attempts of *Thuja plicata* in forest habitats in Poland.) – Wyd. SGGW AR, Warszawa: 1–106. Poland
- 102 USDA 2009. USDA plants database. – <http://plants.usda.gov/>, accessed 3 March 2009. USA
- 103 USDA Forest Service 1965. Silvics of North America: Conifers. – <www.na.fs.fed.us/spfo/pubs/silvics_manual/Volume_1/vol1_Table_of_contents.htm>, accessed 15 March 2009. USA
- 104 Verloove, F. 2006. Catalogue of neophytes in Belgium 1800–2005. – Scripta Botanica Belgica 39, National Botanic Garden of Belgium. Belgium
- 105 Weakley, A. S. 2008. Flora of the Carolinas, Virginia, Georgia, northern Florida, and surrounding areas. Working draft. – <www.herbarium.unc.edu/flora.htm>. North Carolina, Virginia
- 106 Webb, C. J. et al. 1995. Checklist of dicotyledons, gymnosperms, and pteridophytes naturalised or casual in New Zealand: additional records 1988–1993. – N. Z. J. Bot. 33: 151–182. New Zealand
- 107 Webb, C. J. et al. 1988. Flora of New Zealand Vol. IV: naturalized Pteridophytes, Gymnosperms, Dicotyledons. – Botany Division, DSIR, Christchurch. New Zealand
- 108 Wilson, H. D. 1994. Stewart Island plants. – Manuka Press, Christchurch Stewart Island
- 108 Wittenberg, R. (ed.) 2005. An inventory of alien species and their threat to biodiversity and economy in Switzerland. – CABI Bioscience Switzerland Centre report to the Swiss Agency for Environment, Forests and Landscape. Switzerland
- 109 York, H. H. and Littlefield, E. W. 1942. The naturalization of Scotch pine, northeastern Oneida County. – J. For. 40: 552–559. New York
- 110 Zalba, S. M. and Villamil, C. B. 2002. Woody plant invasion in relictual grasslands. – Biol. Invasions 4: 55–72. Argentina
- 111 Carillo-Gavilan, M. A. and Vilà, M. 2010. Little evidence of invasion by alien conifers in Europe. – Divers. Distrib. 16: 203–213. Europe

Appendix 4

Boxplots of selected environmental and socio-economic explanatory variables for each continent.

