



Science Review Sourcebook

2016

*Compiling the year's research uses of
data accessed through GBIF*



About the *Science Review Sourcebook 2016*

Each year, the GBIF *Science Review* highlights research uses of primary biodiversity data accessed through the GBIF network global infrastructure.

Citations of GBIF-mediated data continue to grow and now average more than one substantive example each day. In view of the corresponding growth in the number of pages of the *Science Review*, this year we've decided to separate the narrative highlights from the full annual bibliographic table of citations, which includes more than 400 individual articles. This sourcebook is an electronic companion volume to the printed GBIF *Science Review 2016* ([also available electronically](#)) which includes summaries of selected examples of research using GBIF as a data source, as well as analysis of trends and geographic location of research teams.

Articles summarized in the *Science Review* are **marked in bold** in the following tables, and the Sourcebook introduces the symbol '' to indicate open-access articles that are available to all readers with or without a journal subscription.

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invasive alien species

AUTHORS	TITLE	JOURNAL	DOI/URL	AUTHOR COUNTRIES
a Abulizi A, Feng Z, Yang J, Zayiti A & Xu Z	Invasion of the Himalayan hotspot by <i>Acacia farnesiana</i> : how the human footprint influences the potential distribution of alien species	Current Science 109(1): 183-189	http://j.mp/2dWxYEF	China
a Adhikari D, Tiwary R & Barik SK	Modelling Hotspots for Invasive Alien Plants in India	PLoS ONE 10(7): e0134665	doi:10.1371/journal.pone.0134665	India
Aguilar G, Blanchon D, Foote H, Pollonais C & Mosee A	Queensland fruit fly invasion of New Zealand: Predicting area suitability under future climate change scenarios	Unitec ePress Perspectives in Biosecurity Research Series (2)	http://j.mp/1onk5AK	United States, New Zealand
a Aguilla A & Arnau V	<i>Rumex vesicarius</i> L. [Polygonaceae], néfrito para la Flora Valenciana [España, Mediterráneo Occidental]	Flora Montiberica 59: 72-82	http://j.mp/2dvlUa2	Spain
a Alsos IG, Ware C & Elven R	Past Arctic aliens have passed away, current ones may stay	Biological Invasions 17(11): 3113-3123	doi:10.1007/s10530-015-0937-9	Norway, Australia
Ancillotto L, Strubbe D, Menchetti M & Mori E	An overlooked invader? Ecological niche, invasion success and range dynamics of the Alexandrine parakeet in the invaded range	Biological Invasions	doi:10.1007/s10530-015-1032-y	Italy, Belgium
a Assis J, Zupan M, Nicastro KR, Zardi GI, McQuaid CD & Serrão EA	Oceanographic Conditions Limit the Spread of a Marine Invader along Southern African Shores	PLoS ONE 10(6): e0128124	doi:10.1371/journal.pone.0128124	Portugal, South Africa
Atwater DZ, Sezen UU, Goff V, Kong W, Paterson AH & Barney JN	Reconstructing changes in the genotype, phenotype, and climatic niche of an introduced species	Ecography	doi:10.1111/ecog.02031	United States
a Barredo JI, Strona G, de Rigo D, Caudullo G, Stanganelli G & San-Miguel-Ayanz J	Assessing the potential distribution of insect pests: case studies on large pine weevil [<i>Hylobius abietis</i> L.] and horse-chestnut leaf miner [<i>Cameraria ohridella</i>] under present and future climate conditions in European forests	EPPO Bulletin 45: 273-281	doi:10.1111/epp.12208	Italy
Bradley BA	Predicting abundance with presence-only models	Landscape Ecology 31(1): 19-30	doi:10.1007/s10980-015-0303-4	United States
a Byers JE, Smith RS, Pringle JM et al.	Invasion Expansion: Time since introduction best predicts global ranges of marine invaders	Scientific Reports 5: 12436	doi:10.1038/srep12436	United States, Australia, New Zealand
Callen ST & Miller AJ	Signatures of niche conservatism and niche shift in the North American kudzu [<i>Pueraria montana</i>] invasion	Diversity and Distributions 21(8): 853-863	doi:10.1111/ddi.12341	United States
a Carlos-Júnior LA, Neves DM, Barbosa NPU, Moulton TP & Creed JC	Occurrence of an invasive coral in the southwest Atlantic and comparison with a congener suggest potential niche expansion	Ecology and Evolution 5(11): 2162-2171	doi:10.1002/ece3.1506	Brazil, United Kingdom
Daume S	Mining Twitter to monitor Invasive Alien Species – An analytical framework and sample information topologies	Ecological Informatics 31: 70-82	doi:10.1016/j.ecoinf.2015.11.014	Germany, Sweden
a Dellinger AS, Essl F, Hojsgaard D et al.	Niche dynamics of alien species do not differ among sexual and apomictic flowering plants	New Phytologist 209(3): 1313-1323	doi:10.1111/nph.13694	Austria, Germany, Czech Republic
Dlugosch KM, Cang FA, Barker BS, Andonian K, Swope SM & Rieseberg LH	Evolution of invasiveness through increased resource use in a vacant niche	Nature Plants 1(15066)	doi:10.1038/nplants.2015.66	Canada, United States
Dodd AJ, Burgman MA, McCarthy MA & Ainsworth N	The changing patterns of plant naturalization in Australia	Diversity and Distributions	doi:10.1111/ddi.12351	Australia
a Faleiro FV, Silva DP, de Carvalho RA, Särkinen T, De Marco P Jr.	Ring out the bells, we are being invaded! Niche conservatism in exotic populations of the Yellow Bells, <i>Tecoma stans</i> (Bignoniaceae)	Natureza & Conservação 13(1): 24-29	doi:10.1016/j.ncon.2015.04.004	Brazil, United Kingdom
a Fandohan AB, Koko IKED, Avocevou-Ayisso C et al.	<i>Lantana camara</i> (verbenaceae) : a potential threat to the effectiveness of protected areas to conserve flora and fauna in Benin	Agronomie Africaine 27(2): 115-126	http://j.mp/2e8vDUE	Benin
Fandohan AB, Oduor AMO, Sodé AI et al.	Modeling vulnerability of protected areas to invasion by <i>Chromolaena odorata</i> under current and future climates	Ecosystem Health and Sustainability 1(6): 1-12	doi:10.1890/EHS15-0003.1	Benin, Germany, China, United Kingdom
a Fernández M & Hamilton H	Ecological Niche Transferability Using Invasive Species as a Case Study	PLoS ONE 10(3): e0119891	doi:10.1371/journal.pone.0119891	United States
Flø D, Krokene P & Økland B	Invasion potential of <i>Agrilus planipennis</i> and other <i>Agrilus</i> beetles in Europe: import pathways of deciduous wood chips and MaxEnt analyses of potential distribution areas	EPPO Bulletin 45: 259-268	doi:10.1111/epp.12223	Norway
a Fraser DL, Aguilar G, Nagle W, Galbraith M & Ryall C	The House Crow [<i>Corvus splendens</i>]: A Threat to New Zealand?	ISPRS International Journal of Geospatial Information 4(2): 725-740	doi:10.3390/ijgi4020725	New Zealand, United Kingdom
a Fuller P & Neilson ME	The U.S. Geological Survey's Nonindigenous Aquatic Species Database: over thirty years of tracking introduced aquatic species in the United States (and counting)	Management of Biological Invasions 6(2): 159-170	doi:10.3391/mbi.2015.6.2.06	United States
a Gallardo B, Zieritz A & Aldridge DC	The Importance of the Human Footprint in Shaping the Global Distribution of Terrestrial, Freshwater and Marine Invaders	PLoS ONE 10(5): e0125801	doi:10.1371/journal.pone.0125801	United Kingdom, Spain

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AUTHORS	TITLE	JOURNAL	DOI/URL	AUTHOR COUNTRIES
Gallien L, Saladin B, Boucher FC, Richardson DM & Zimmermann NE	Does the legacy of historical biogeography shape current invasiveness in pines?	New Phytologist	doi:10.1111/nph.13700	Switzerland, South Africa
Garcia TS, Rowe JC & Doyle JB	A tad too high: Sensitivity to UV-B radiation may limit invasion potential of American bullfrogs (<i>Lithobates catesbeianus</i>) in the Pacific Northwest invasion range	Aquatic Invasions 10:2 [237-247]	doi:10.3391/ai.2015.10.2.12	United States
Godefroid M, Cruaud A, Rossi JP & Rasplus JY	Assessing the Risk of Invasion by Tephritis Fruit Flies: Intraspecific Divergence Matters	PLoS ONE 10(8):e0135209	doi:10.1371/journal.pone.0135209	France
Groom DJ, Desmet P, Vanderhoeven S & Adriaens T	The importance of open data for invasive alien species research, policy and management	Management of Biological Invasions 6(2): 119-125	doi:10.3391/mbi.2015.6.2.02	Belgium
Iacarella JC, Mankiewicz PS & Ricciardi A	Negative competitive effects of invasive plants change with time since invasion	Ecosphere 6(7): 1-14	doi:10.1890/ES15-00147.1	Canada
Jacobs LEO, van Wyk E & Wilson JRU	Recent discovery of small naturalised populations of <i>Melaleuca quinquenervia</i> (Cav.) S.T. Blake in South Africa	BioInvasions Records 4(1): 53-59	doi:10.3391/bir.2015.4.1.09	South Africa
Januario SM, Estay SA, Labra FA & Lima M	Combining environmental suitability and population abundances to evaluate the invasive potential of the tunicate <i>Ciona intestinalis</i> along the temperate South American coast	PeerJ 3:e1357	doi:10.7717/peerj.1357	Chile
Jogesh T, Perry R, Downie S & Berenbaum M	Patterns of Genetic Diversity in the Globally Invasive Species, Wild Parsnip (<i>Patinaca Sativa</i> L.)	Invasive Plant Science and Management 8(4): 415-429	doi:10.1614/IPSM-D-15-00024.1	United States
van Kleunen M, Dawson W, Essl F et al.	Global exchange and accumulation of non-native plants	Nature 525: 100–103	doi:10.1038/nature14910	Germany, Australia, Czech Republic, United States, Russian Federation, New Zealand, Spain, Colombia, Costa Rica, Switzerland, South Africa, Portugal, Belgium, Chile, India, Brazil, Uruguay, Belize, Oman, Thailand, China, Saudi Arabia, Netherlands
Kriticos DJ, Brunel S, Ota N, Fried G, Lansink AGJM & Panetta FD	Downscaling Pest Risk Analyses: Identifying Current and Future Potentially Suitable Habitats for <i>Parthenium hysterophorus</i> with Particular Reference to Europe and North Africa	PLoS ONE 10(9):e0132807	doi:10.1371/journal.pone.0132807	Australia, France, Netherlands
Kriticos DJ, Ota N, Hutchison WE, Beddow J & Walsh T	The Potential Distribution of Invading <i>Helicoverpa armigera</i> in North America: Is It Just a Matter of Time?	PLoS ONE 10(7):e0133224	doi:10.1371/journal.pone.0119618	Australia, United States, Brazil
Kwon OJ & Oh CH	Naturalization of landscaping woody plant, <i>Magnolia obovata</i> potentially invasive species	Journal of Mountain Science 12(1): 30-38	doi:10.1007/s11629-014-3191-1	Republic of Korea
Leiblein-Wild M C, Stein Kamp J, Hickler T & Tackenberg O	Modelling the potential distribution, net primary production and phenology of common ragweed with a physiological model	Journal of Biogeography	doi:10.1111/jbi.12646	Germany
Leidenberger S, Obst M, Kulawik R et al.	Evaluating the potential of ecological niche modelling as a component in marine non-indigenous species risk assessments	Marine Pollution Bulletin	doi:10.1016/j.marpolbul.2015.04.033	Sweden, Germany, United Kingdom
Li XH, Gao ST, Gu WB, Zhang Y & Guo YH	Species identification of freshwater snail <i>Planorbella trivolvis</i> and analysis of its potential distribution	Zhongguo Xue Xi Chong Bing Fang Zhi Za Zhi [Chinese Journal of Schistosomiasis Control] 27(3): 268-72.	http://j.mp/20SEUCf	China
Mainali KP, Warren DL, Dhileepan K et al.	Projecting future expansion of invasive species: comparing and improving methodologies for species distribution modeling	Global Change Biology, 21 (12):4464–4480	doi:10.1111/gcb.13038	United States, Australia, South Africa, Nepal, United Kingdom
McConnachie AJ, Peach E, Turner PJ, Stutz S, Schaffner U & Simmons A	The invasive weed ox-eye daisy, <i>Leucanthemum vulgare</i> Lam. (Asteraceae): Prospects for its management in New South Wales	Plant Protection Quarterly 30(3): 103-109	http://j.mp/2djPaTs	Australia, Switzerland
Mendoza R, Luna S & Aguilera C	Risk assessment of the ornamental fish trade in Mexico: analysis of freshwater species and effectiveness of the FISK [Fish Invasiveness Screening Kit]	Biological Invasions 17(12): 3491-3502	doi:10.1007/s10530-015-0973-5	Mexico
Mori E, Mazza G, Menchetti M et al.	The masked invader strikes again: the conquest of Italy by the Northern raccoon	Hystrix, the Italian Journal of Mammalogy 26(1): 47-57	doi:10.4404/hystrix-26.1-11035	Italy, Germany
Murray RG, Popescu VD, Palen WJ & Govindarajulu P	Relative performance of ecological niche and occupancy models for predicting invasions by patchily-distributed species	Biological Invasions 17(9): 2691-2706	doi:10.1007/s10530-015-0906-3	Canada

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Orlova-Bienkowskaja MJ, Ukrainsky AS & Brown PMJ	<i>Harmonia axyridis</i> [Coleoptera: Coccinellidae] in Asia: a re-examination of the native range and invasion to southeastern Kazakhstan and Kyrgyzstan	Biological Invasions 17(?) 1941-1948	doi:10.1007/s10530-015-0848-9	Russian Federation, United Kingdom
Park DS & Potter D	Why close relatives make bad neighbours: phylogenetic conservatism in niche preferences and dispersal disproves Darwin's naturalization hypothesis in the thistle tribe	Molecular Ecology 24: 3181-3193	doi:10.1111/mec.13227	United States
Qin Z, Zhang J, DiTommaso A, Wang R & Wu R	Predicting invasions of <i>Wedelia trilobata</i> (L.) Hitchc. with Maxent and GARP models	Journal of Plant Research 128(5): 763-75	doi:10.1007/s10265-015-0738-3	China, United States
a Rekha Sarma R, Munsi M & Neelavarra Ananthram A	Effect of Climate Change on Invasion Risk of Giant African Snail (<i>Achatina fulica</i> Féussac, 1821: Achatinidae) in India	PLoS ONE 10(11): e0143724	doi:10.1371/journal.pone.0143724	India
Richardson DM, Le Roux JJ & Wilson JR	Australian acacias as invasive species: lessons to be learnt from regions with long planting histories	Southern Forests: a Journal of Forest Science 77(1): 31-39	doi:10.2989/20702620.2014.999305	South Africa
a Roger E, Duursma DE, Downey PO et al.	A tool to assess potential for alien plant establishment and expansion under climate change	Journal of Environmental Management 159: 121-127	doi:10.1016/j.jenvman.2015.05.039	Australia
Rouget M, Robertson MP, Wilson JRU et al.	Invasion debt – quantifying future biological invasions	Diversity and Distributions	doi:10.1111/ddi.12408	South Africa, Austria
Shaik RS, Gopurenko D, Urwin NAR, Burrows GE, Lepsch BJ & Weston LA	Population genetics of invasive <i>Citrullus lanatus</i> , <i>Citrullus colocynthis</i> and <i>Cucumis myriocarpus</i> [Cucurbitaceae] in Australia: inferences based on chloroplast and nuclear gene sequencing	Biological Invasions 17(8): 2475-2490	doi:10.1007/s10530-015-0891-6	Australia
a Silva-Rocha I, Salvi D, Sillero N, Mateo JA & Carretero MA	Snakes on the Balearic Islands: An Invasion Tale with Implications for Native Biodiversity Conservation	PLoS ONE 10(4): e0121026	doi:10.1371/journal.pone.0121026	Portugal, Spain
a Smith L, Tekiela D & Barney J	Predicting biofuel invasiveness: a relative comparison to crops and weeds	Invasive Plant Science and Management	doi:10.1614/IPSM-D-15-00001.1	United States
Strubbe D, Jackson H, Groombridge J, Matthysen E	Invasion success of a global avian invader is explained by within-taxon niche structure and association with humans in the native range	Diversity and Distributions 21: 675-685	doi:10.1111/ddi.12325	Belgium, United Kingdom
Tanentzap AJ, Brandt AJ, Smissen RD, Heenan PB, Fukami T & Lee WG	When do plant radiations influence community assembly? The importance of historical contingency in the race for niche space.	New Phytologist 207(2): 468-479	doi:10.1111/nph.13362	United Kingdom, New Zealand, United States
a Turner KG, Fréville H & Rieseberg LH	Adaptive plasticity and niche expansion in an invasive thistle	Ecology and Evolution 5(15): 3183-3197	doi:10.1002/ece3.1599	Canada, France, United States
Uden DR, Allen CR, Angeler DG, Corral L & Fricke KA	Adaptive invasive species distribution models: a framework for modeling incipient invasions	Biological Invasions 17(10): 2831-2850	doi:10.1007/s10530-015-0914-3	United States, Sweden
a Ware C, Berge J, Jelmert A et al.	Biological introduction risks from shipping in a warming Arctic	Journal of Applied Ecology	doi:10.1111/1365-2664.12566	Norway, Australia, Denmark, Switzerland, Russian Federation, Poland
a Wetterer JK	Geographic origin and spread of cosmopolitan ants (Hymenoptera: Formicidae)	Halteres 6: 66-78	http://j.mp/1SFr2dB	United States
Wetterer JK & Hita Garcia F	Worldwide spread of <i>Tetramorium caldarium</i> (Hymenoptera: Formicidae)	Myrmecological News 21: 93-99	http://j.mp/20ltswM	United States, Germany
a Wetterer JK, Guénard B & Booher DB	Geographic spread of <i>Vollenhovia emeryi</i> (Hymenoptera: Formicidae)	Asian Myrmecology 7: 105-112	http://j.mp/1V04mSA	China, United States
a Wetterer JK, MacGown JA & Calcaterra LA	Geographic Spread of <i>Pheidole Obscurithorax</i> (Hymenoptera: Formicidae)	Transactions of the American Entomological Society 141 (1): 222-231	http://j.mp/1RKU0xC	United States, Argentina
a Wirga M & Majtyka T	Do climatic requirements explain the northern range of European reptiles? Common wall lizard <i>Podarcis muralis</i> (Laur.) (Squamata, Lacertidae) as an example	North-Western Journal of Zoology 11 (2): 296-303	http://j.mp/2dj0rBy	Poland
a Zengeya TA, Booth AJ & Chimimba CT	Broad Niche Overlap between Invasive Nile Tilapia <i>Oreochromis niloticus</i> and Indigenous Congenerics in Southern Africa: Should We be Concerned?	Entropy 17: 4959-4973	doi:10.3390/e17074959	South Africa
Zhao L, Hou P, Zhu G, Li M, Xie T & Liu Q	Mapping the disjunct distribution of introduced codling moth <i>Cydia pomonella</i> in China	Agricultural and Forest Entomology 17(2): 214-222	doi:10.1111/afe.12104	China

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AUTHORS	TITLE	JOURNAL	DOI/URL	AUTHOR COUNTRIES
a Aguiar LMS, Bernard B, Ribeiro V, Machado RB & Jones G	Should I stay or should I go? Climate change effects on the future of Neotropical savannah bats	Global Ecology and Conservation 5: 22-33	doi:10.1016/j.gecco.2015.11.011	Brazil, United Kingdom
a Auber A, Travers-Trolet M, Villanueva MC &	Regime Shift in an Exploited Fish Community Related to Natural Climate Oscillations	PLoS ONE 10(7): e0129883	doi:10.1371/journal.pone.0129883	France
a Baltensperger AP & Huettmann F	Predicted Shifts in Small Mammal Distributions and Biodiversity in the Altered Future Environment of Alaska: An Open Access Data and Machine Learning Perspective	PLoS ONE 10(7): e0132054	doi:10.1371/journal.pone.0132054	United States
Bateman BL, Pidgeon AM, Radeloff VC et al.	The pace of past climate change vs. potential bird distributions and land use in the United States	Global Change Biology	doi:10.1111/gcb.13154	United States, Australia
Booth TH	Using a Global Botanic Gardens Database to Help Assess the Capabilities of Rare Eucalypt Species to Cope with Climate Change	International Forestry Review 17(3): 259-268	doi:10.1505/146554815815982639	Australia
a Booth TH, Broadhurst LM, Pinkard E et al.	Native forests and climate change: Lessons from eucalypts	Forest Ecology and Management	doi:10.1016/j.foreco.2015.03.002	Australia
Bowler DE, Haase P, Kröncke I et al.	A cross-taxon analysis of the impact of climate change on abundance trends in central Europe	Biological Conservation 187: 41-50	doi:10.1016/j.biocon.2015.03.034	Germany, United Kingdom, Spain
a Brown KA, Parks KE, Bethell CA, Johnson SE & Mulligan M	Predicting Plant Diversity Patterns in Madagascar: Understanding the Effects of Climate and Land Cover Change in a Biodiversity Hotspot	PLoS ONE 10(4): e0122721	doi:10.1371/journal.pone.0122721	United Kingdom, Canada
Cabrelli AL	Assessing the vulnerability of Australian skinks to climate change	Climatic Change 130(2): 223-233	doi:10.1007/s10584-015-1358-6	Australia
Carrillo-Angeles IG, Suzán-Azpiri H, Mandujano MC, Golubov J & Martínez-Ávalos JG	Niche breadth and the implications of climate change in the conservation of the genus <i>Astrophytum</i> (Cactaceae)	Journal of Arid Environments 124: 310-317	doi:10.1016/j.jaridenv.2015.09.001	Mexico
Castellanos-Frías E, García de León D, Bastida F & González-Andújar JL	Predicting global geographical distribution of <i>Lolium rigidum</i> (rigid ryegrass) under climate change	The Journal of Agricultural Science	doi:10.1017/S0021859615000799	Spain, Chile
Comte L, Hugueny B & Grenouillet G	Climate interacts with anthropogenic drivers to determine extirpation dynamics	Ecography	doi:10.1111/ecog.01871	France, United States
Cuyckens GAE, Christie DA, Domic AI, Malizia LR & Renison D	Climate change and the distribution and conservation of the world's highest elevation woodlands in the South American Altiplano	Global and Planetary Change 137: 79-87	doi:10.1016/j.gloplacha.2015.12.010	Argentina, Chile, Bolivia
Duque A, Stevenson PR & Feeley KJ	Thermophilization of adult and juvenile tree communities in the northern tropical Andes	Proceedings of the National Academy of Sciences of the United States of America 112 (34): 10744-10749	doi:10.1073/pnas.1506570112	Colombia, United States
Fernández M, Hamilton HH & Kueppers LM	Back to the future: using historical climate variation to project near-term shifts in habitat suitable for coast redwood	Global Change Biology 21(11): 4141-52	doi:10.1111/gcb.13027	United States
a Garcia LG, de Barros Ferraz SF, Alvares CA, de Barros Ferraz KMPM & Higa RCV	Modeling suitable climate for <i>Eucalyptus grandis</i> under future climates scenarios in Brazil/Modelagem da aptidão climática do <i>Eucalyptus grandis</i> frente aos cenários de mudanças climáticas no Brasil	Scientia Forestalis 42(104): 503-511	http://j.mp/1QSICJ	Brazil
a Ge X, He S, Wang T, Yan W, Zong S	Potential Distribution Predicted for <i>Rhynchophorus ferrugineus</i> in China under Different Climate Warming Scenarios	PLoS ONE 10(10): e0141111	doi:10.1371/journal.pone.0141111	China
a Gough LA, Sverdrup-Thygeson A, Milberg P et al.	Specialists in ancient trees are more affected by climate than generalists	Ecology and Evolution 5(23): 5632-5641	doi:10.1002/ece3.1799	Norway, United Kingdom, Sweden
Gunderson AR & Stillman JH	Plasticity in thermal tolerance has limited potential to buffer ectotherms from global warming	Proceedings of the Royal Society B 282(1808)	doi:10.1098/rspb.2015.0401	United States
Hof AR & Svahlin A	The potential effect of climate change on the geographical distribution of insect pest species in the Swedish boreal forest	Scandinavian Journal of Forest Research 31(1): 29-39	doi:10.1080/02827581.2015.1052751	Sweden
Huerta-Ramos G, Moreno-Casasola P & Sosa V	Wetland Conservation in the Gulf of Mexico: The Example of the Salt Marsh Morning Glory, <i>Ipomoea sagittata</i>	Wetlands 35(4): 709-721	doi:10.1007/s13157-015-0662-2	Mexico
Kerr JT, Pindar A, Galpern P et al.	Climate change impacts on bumblebees converge across continents	Science 349(6244): 177-180	doi:10.1126/science.aaa7031	Canada, United Kingdom, Belgium, United States
a Kim TG, Han Y-G, Jeong JC, Kim Y, Kwon O & Cho Y	Changes in <i>Biston robustum</i> and <i>Camellia japonica</i> distributions, according to climate change predictions in South Korea	Journal of Ecology and Environment 38 (3): 327-334	doi:10.5141/ecoenv.2015.033	Republic of Korea

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AUTHORS	TITLE	JOURNAL	DOI/URL	AUTHOR COUNTRIES
Krehenwinkel A, Rödder D & Tautz D	Eco-Genomic analysis of the poleward range expansion of the wasp spider <i>Argiope bruennichi</i> shows rapid adaptation and genomic admixture	Global Change Biology 21[12]: 4320-4332	doi:10.1111/gcb.13042	Germany
Lancaster LT, Dudaniec RY, Hansson B & Svensson EI	Latitudinal shift in thermal niche breadth results from thermal release during a climate-mediated range expansion	Journal of Biogeography 42[10]: 1953-1963	doi:10.1111/jbi.12553	United Kingdom, Sweden
a Leach K, Kelly R, Cameron A, Montgomery WI & Reid N	Expertly Validated Models and Phylogenetically-Controlled Analysis Suggests Responses to Climate Change Are Related to Species Traits in the Order Lagomorpha	PLoS ONE 10[4]: e0122267	doi:10.1371/journal.pone.0122267	United Kingdom
a Lemoine NP	Climate Change May Alter Breeding Ground Distributions of Eastern Migratory Monarchs (<i>Danaus plexippus</i>) via Range Expansion of <i>Asclepias</i> Host Plants	PLoS ONE 10[2]: e0118614	doi:10.1371/journal.pone.0118614	United States
a Liu J, Wang C, Fu D et al.	Phylogeography of <i>Nanorana parkeri</i> (Anura: Ranidae) and multiple refugia on the Tibetan Plateau revealed by mitochondrial and nuclear DNA	Scientific Reports 5: 9857	doi:10.1038/srep09857	China
Luo ZH, Jiang ZG & Tang SH	Impacts of climate change on distributions and diversity of ungulates on the Tibetan Plateau	Ecological Applications 25:24–38	doi:10.1890/13-1499.1	China
a Malhado ACM, Oliveira-Neto JA, Stropp J et al.	Climatological correlates of seed size in Amazonian forest trees	Journal of Vegetation Science 26[5]: 956-963	doi:10.1111/jvs.12301	Brazil, Italy, United Kingdom
a Newman CE & Austin CC	Thriving in the Cold: Glacial Expansion and Post-Glacial Contraction of a Temperate Terrestrial Salamander (<i>Plethodon serratus</i>)	PLoS ONE 10[7]: e0130131	doi:10.1371/journal.pone.0130131	United States
Nori J, Moreno Azócar DL, Cruz FB, Bonino MF & Leynaud GC	Translating niche features: Modelling differential exposure of Argentine reptiles to global climate change	Austral Ecology	doi:10.1111/aec.12321	Argentina
a Ortega-Andrade HM, Prieto-Torres DA, Gómez-Lora I, Lizcano DJ	Ecological and Geographical Analysis of the Distribution of the Mountain Tapir (<i>Tapirus pinchaque</i>) in Ecuador: Importance of Protected Areas in Future Scenarios of Global Warming	PLOS ONE 10[3]: e0121137	doi:10.1371/journal.pone.0121137	Mexico, Ecuador, Venezuela, Spain
a Paterson RRM, Kumar L, Taylor S & Lima N	Future climate effects on suitability for growth of oil palms in Malaysia and Indonesia	Scientific Reports 5: 14457	doi:10.1038/srep14457	Australia, Portugal, Brazil
Petitpierre B, MacDougall K, Seipel T, Broennimann O, Guisan A & Kueffer C	Will climate change increase the risk of plant invasions into mountains?	Ecological Applications	doi:10.1890/14-1871.1	Switzerland, Australia, United States
Qin Z, DiTommaso A, Wang RL & Liang KM	Predicting the potential distribution of <i>Lantana camara</i> L. under RCP scenarios using ISI-MIP models	Climatic Change 134(1): 193-208	doi:10.1007/s10584-015-1500-5	China, United States
Robiansyah I & Hajar AS	Predicting Current and Future Distribution of Endangered Tree <i>Dracaena ombet</i> Kotschy and Peyr. Under Climate Change	Proceedings of the National Academy of Sciences, India Section B: Biological Sciences	doi:10.1007/s40011-015-0588-8	Saudi Arabia, Indonesia
a Shabani F, Kumar L & Esmaeili A	A modelling implementation of climate change on biodegradation of Low-density polyethylene (LDPE) by <i>Aspergillus niger</i> in soil	Global Ecology and Conservation 4: 388-398	doi:10.1016/j.gecco.2015.08.003	Australia, Iran
Silva DP, Macêdo ACBA, Ascher JS & De Marco Jr P	Range increase of a Neotropical orchid bee under future scenarios of climate change	Journal of Insect Conservation 19[5]: 901-910	doi:10.1007/s10841-015-9807-0	Brazil, Singapore
Stewart JAE, Perrine JD, Nichols LB et al.	Revisiting the past to foretell the future: summer temperature and habitat area predict pika extirpations in California	Journal of Biogeography 42[5]: 880-890	doi:10.1111/jbi.12466	United States
a Stuart-Smith RD, Edgar GJ, Barrett NS, Kininmonth SJ & Bates AE	Thermal biases and vulnerability to warming in the world's marine fauna	Nature 528: 88-92	doi:10.1038/nature16144	Australia, Sweden, United Kingdom
a Sunday JM, Pecl GT, Frusher S et al.	Species traits and climate velocity explain geographic range shifts in an ocean-warming hotspot	Ecology Letters 18[9]: 944-953	doi:10.1111/ele.12474	Canada, Australia, United Kingdom
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a Värhammar A, Wallin G, McLean CM et al.	Photosynthetic temperature responses of tree species in Rwanda: evidence of pronounced negative effects of high temperature in montane rainforest climax species	New Phytologist 206[3]:1000-12	doi:10.1111/nph.13291	Sweden, Australia, Rwanda
Wisz MS, Broennimann O, Grenkjær et al.	Arctic warming will promote Atlantic-Pacific fish interchange	Nature Climate Change 5: 261-265	doi:10.1038/nclimate2500	Denmark, Greenland, Switzerland, France
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Zhang J, Nielsen SE, Stolar J, Chen Y & Thuiller W	Gains and losses of plant species and phylogenetic diversity for a northern high-latitude region	Diversity and Distributions 21[12]: 1410-1454	doi:10.1111/ddi.12365	Canada, Denmark, France

species conservation

AUTHORS	TITLE	JOURNAL	DOI/URL	AUTHOR COUNTRIES
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Botello F, Sarkar S & Sánchez-Cordero V	Impact of habitat loss on distributions of terrestrial vertebrates in a high-biodiversity region in Mexico	Biological Conservation 184: 59-65	doi:10.1016/j.biocon.2014.11.035	Mexico, United States
a Botero-Delgadillo E, Bayly NJ, Escudero-Páez S & Moreno MI	Understanding the distribution of a threatened bird at multiple levels: A hierarchical analysis of the ecological niche of the Santa Marta Bush-Tyrant (<i>Myiotheretes pernix</i>)	The Condor 117(4): 629-643	doi:10.1650/CONDOR-15-26.1	Colombia, Chile
a Brummitt NA, Bachman SP, Griffiths-Lee J et al.	Green Plants in the Red: A Baseline Global Assessment for the IUCN Sampled Red List Index for Plants	PLoS ONE 10(8): e0135152	doi:10.1371/journal.pone.0135152	United Kingdom, South Africa
Clavero M & Hermoso V	Historical data to plan the recovery of the European eel	Journal of Applied Ecology 52(4): 960-968	doi: 10.1111/1365-2664.12446	Spain, Australia
a de Albuquerque FS, Benito B, Beier P, Assunção-Albuquerque M & Cayuela L	Supporting underrepresented forests in Mesoamerica	Natureza & Conservação 13(2): 152-158	doi:10.1016/j.ncon.2015.02.001	United States, Denmark, Spain
a Avalos VR & Hernández J	Projected distribution shifts and protected area coverage of range-restricted Andean birds under climate change	Global Ecology and Conservation 4: 459-469	doi:10.1016/j.gecco.2015.08.004	Chile
Esperón-Rodríguez M & Barradas VL	Comparing environmental vulnerability in the montane cloud forest of eastern Mexico: A vulnerability index	Ecological Indicators 52: 300-310	doi:10.1016/j.ecolind.2014.12.019	Mexico
a Flores-Maldonado JJ, Ruvalcaba-Ortega I, Moreno-Talamantes A, García-Aranda MA, Favela-Lara S & González-Rojas JL	Representatividad geográfica y ambiental del inventario de especies arbustivas en el Área de Protección de Recursos Naturales "cuenca Alimentadora del Distrito Nacional de Riego 004 Don Martín", Coahuila, México	Revista Mexicana de Biodiversidad 86(3): 809-822	doi:10.1016/j.rmb.2015.08.002	Mexico
García-Aguilar MC, Luévano-Esparza J & de la Cueva H	Mammal Decline in the Middle America	Journal for Nature Conservation 28: 127-132	doi:10.1016/j.jnc.2015.10.001	Mexico
Hällfors MH, Liao J, Dzurisin JDK et al.	Addressing potential local adaptation in species distribution models implications for conservation under climate change	Ecological Applications 26(4): 1154-1169	doi:10.1890/15-0926.1	Finland, United States
Hendricks SA, Clee PRC, Harrigan RJ et al.	Re-defining historical geographic range in species with sparse records: Implications for the Mexican wolf reintroduction program	Biological Conservation 194: 48-57	doi:10.1016/j.biocon.2015.11.027	United States
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a Janakiraman J & Jalal JS	Angiosperm diversity of the Great Indian Bustard Wildlife Sanctuary: a semi-arid grassland, Maharashtra, India	Check List: The Journal of Biodiversity Data 11(2):	doi:10.15560/11.2.1602	India
a Jenkins CN, Alves MAS, Uezu A & Vale MM	Patterns of Vertebrate Diversity and Protection in Brazil	PLoS ONE 10(12): e0145064	doi:10.1371/journal.pone.0145064	Brazil
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a Meza-Parral Y & Pineda E	Amphibian Diversity and Threatened Species in a Severely Transformed Neotropical Region in Mexico	PLoS ONE 10(3): e0121652	doi:10.1371/journal.pone.0121652	Mexico
Monroy-Vilchis O, Castillo-Huitrón NM, Zarco-González MM & Rodríguez-Soto C	Potential distribution of <i>Ursus americanus</i> in Mexico and its persistence: Implications for conservation	Journal for Nature Conservation 29: 62-68	doi:10.1016/j.jnc.2015.11.003	Mexico
a Monterrubio-Rico TC, Charre-Medellin JF & Sáenz-Romero C	Current and future habitat availability for Thick-billed and Maroon-fronted parrots in northern Mexican forests	Journal of Field Ornithology, 86: 1–16	doi:10.1111/jfo.12084	Mexico
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Peñaranda DA & Simonetti JA	Predicting and setting conservation priorities for Bolivian mammals based on biological correlates of the risk of decline	Conservation Biology 29(3): 834-843	doi:10.1111/cobi.12453	Chile, Bolivia
Sangermano F, Bol L, Galvis P, Gullison RE, Hardner J & Ross GS	Habitat suitability and protection status of four species of amphibians in the Dominican Republic	Applied Geography 63: 55e65	doi:10.1016/j.apgeog.2015.06.002	United States, Canada, Dominican Republic
Verde Arregoitia LD, Leach K, Reid N & Fisher DO	Diversity, extinction, and threat status in Lagomorphs	Ecography 38(11): 1155-1165	doi:10.1111/ecog.01063	Australia, United Kingdom
Wagner N, Mingo V, Schulte U & Lötters S	Risk evaluation of pesticide use to protected European reptile species	Biological Conservation 191: 667-673	doi:10.1016/j.biocon.2015.08.002	Germany
a Wijedasa L, Shee ZO & Chia E	Conservation status and lectotypification of <i>Alangium ridleyi</i> (Cornaceae) in Singapore	Gardens' Bulletin Singapore 66(2): 233-239	http://j.mp/1Ta6dXp	Singapore, Malaysia
Xiao YE, Jiang K, Tong X, Hu YH & Chen XY	Population genetic structure of <i>Iris ensata</i> on sky-islands and its implications for assisted migration	Conservation Genetics 16(5): 1055-1067	doi:10.1007/s10592-015-0722-4	China

human health

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Chingwaru W, Vidmar J & Kapewangolo PT	The Potential of Sub-Saharan African Plants in the Management of Human Immunodeficiency Virus Infections: A Review	Phytotherapy Research 29(10): 1452-1487	doi:10.1002/ptr.5433	Zimbabwe, Slovenia, Namibia
Gull T, Anwar F, Sultana B, Alcayde MAC & Nouman W	Capparis species: A potential source of bioactives and high-value components: A review	Industrial Crops and Products 67: 81-96	doi:10.1016/j.indcrop.2014.12.059	Pakistan, Saudi Arabia, Mexico
Gwitiraal M, Murwira A, Zengeya FM, Masocha M & Mutambu S	Modelled habitat suitability of a malaria causing vector (<i>Anopheles arabiensis</i>) relates well with human malaria incidences in Zimbabwe	Applied Geography 60: 130-138	doi:10.1016/j.apgeog.2015.03.010	Zimbabwe
a Kraemer MUG, Sinka ME, Duda KA et al.	The global distribution of the arbovirus vectors <i>Aedes aegypti</i> and <i>Ae. albopictus</i>	eLife 4:e08347	doi:10.7554/eLife.08347#.dpuf	United Kingdom, United States, Brazil, Sweden, Belgium, Indonesia, Taiwan
a Moraga P, Cano J, Baggaley RF et al.	Modelling the distribution and transmission intensity of lymphatic filariasis in sub-Saharan Africa prior to scaling up interventions: integrated use of geostatistical and mathematical modelling	Parasites & Vectors 8:560	doi:10.1186/s13071-015-1166-x	United Kingdom, Ghana, Kenya, Nigeria, United States, Australia
a Moyo B & Mukanganyama S	Anticandidial properties and some mammalian toxicity profile of Lampranthus francisci	Journal of Mycology 2015[898202]	doi:10.1155/2015/898202	Zimbabwe
a Mylne AQN, Pigott DM, Longbottom J et al.	Mapping the zoonotic niche of Lassa fever in Africa	Transactions of the Royal Society of Tropical Medicine & Hygiene 109(8): 483-492	doi:10.1093/trstmh/trv047	United Kingdom, United States
a Pichler U, Hauser M, Wolf M et al.	Pectate Lyase Pollen Allergens: Sensitization Profiles and Cross-Reactivity Pattern	PLoS ONE 10(5): e0120038	doi:10.1371/journal.pone.0120038	Austria, Italy, Japan, France, Germany
Purse BV & Golding N	Tracking the distribution and impacts of diseases with biological records and distribution modelling	Biological Journal of the Linnean Society 115(3): 664-677	doi:10.1111/bij.12567	United Kingdom
a Ramsey JM, Peterson AT, Carmona-Castro O et al.	Atlas of Mexican Triatominae (Reduviidae: Hemiptera) and vector transmission of Chagas disease	Memórias do Instituto Oswaldo Cruz 110(3): 339-352	doi:10.1590/0074-02760140404	Mexico, United States
Shabani F, Kumar L, Nojoumian AH, Esmaeili A, Toghyan M	Projected future distribution of date palm and its potential use in alleviating micronutrient deficiency	Journal of the Science of Food and Agriculture 96(4): 1132-1140	doi:10.1002/jsfa.7195	Australia, Iran
a Tangjitman K, Trisonthi C, Wongswad C, Jitaree S & Venning JC	Potential impact of climatic change on medicinal plants used in the Karen women's health care in northern Thailand	Songklanakarin Journal of Science and Technology 37(3): 369-379	http://j.mp/2dkflcE	Thailand, Denmark
a Tangjitman K, Wongswad C & Trisonthi C	Predicting Vulnerability of Medicinal Plants Used by Karen People in Chiang Mai Province to Climatic Change	Environment and Natural Resources Journal 13(1): 61-69	http://j.mp/1XfgIro	Thailand
Thongbai B, Rapior S, Hyde KD, Wittsein K & Stadler M	<i>Hericium erinaceus</i> , an amazing medicinal mushroom	Mycological Progress 14:91	doi:10.1007/s11557-015-1105-4	Thailand, Germany, France
a Walsh M & Haseeb MA	Modeling the ecologic niche of plague in sylvan and domestic animal hosts to delineate sources of human exposure in the western United States	PeerJ 3:e1493	doi:10.7717/peerj.1493	United States
Walsh MG	Mapping the risk of Nipah virus spillover into human populations in South and Southeast Asia	Transactions of the Royal Society of Tropical Medicine and Hygiene 109(9): 563-571	doi:10.1093/trstmh/trv055	United States
Wang H, Li H, Zeng FL, Xie CX	Spatial Distribution and Global Potential Suitability Regions of <i>Artemisia annua</i>	Zhong Yao Cai 38(3):460-6	http://j.mp/2dkh15X	China
Yañez-Arenas C, Peterson AT, Rodríguez-Medina K & Barve N	Mapping current and future potential snakebite risk in the new world	Climatic Change 134(4): 697-711	doi:10.1007/s10584-015-1544-6	United States

food, fuel & fiber

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Bunn C, Läderach P, Pérez Jimenez JG, Montagnon C & Schilling T	Multiclass Classification of Agro-Ecological Zones for Arabica Coffee: An Improved Understanding of the Impacts of Climate Change	PLoS ONE 10(10): e0140490	doi:10.1371/journal.pone.0140490	Colombia, Nicaragua, United States
Cadima X, van Zonneveld M, Scheldeman X et al.	Endemic wild potato (<i>Solanum</i> spp.) biodiversity status in Bolivia: Reasons for conservation concerns	Journal for Nature Conservation 22(2): 113-131	doi:10.1016/j.jnc.2013.09.007	Bolivia, Netherlands, Costa Rica, Belgium, Colombia, Kenya, Czech Republic
Castañeda-Álvarez NP, de Haan S, Juárez H et al.	Ex Situ Conservation Priorities for the Wild Relatives of Potato [<i>Solanum</i> L. Section <i>Petota</i>]	PLoS ONE 10(4): e0122599	doi:10.1371/journal.pone.0122599	Colombia, United Kingdom, Peru, Netherlands, United States
Galluzzi G, Dufour D, Thomas E et al.	An Integrated Hypothesis on the Domestication of <i>Bactris gasipaes</i>	PLoS ONE 10(12): e0144644	doi:10.1371/journal.pone.0144644	Colombia, Costa Rica
Khoury CK, Heider B, Castañeda-Alvarez NP et al.	Distributions, ex situ conservation priorities, and genetic resource potential of crop wild relatives of sweetpotato [<i>Ipomoea batatas</i> (L.) Lam., I. series <i>Batatas</i>]	Frontiers in Plant Science 6: 251	doi:10.3389/fpls.2015.00251	Colombia, Netherlands, Peru, United Kingdom, United States
Magwé-Tindo J, Zapfack L & Sonké B	Diversity of wild yams (<i>Dioscorea</i> spp., <i>Dioscoreaceae</i>) collected in continental Africa	Biodiversity and Conservation 25(1): 77-91	doi:10.1007/s10531-015-1031-4	Cameroon
Moreira PA, Lins J, Dequigiovanni G, Veasey EA & Clement CR	The Domestication of Annatto (<i>Bixa orellana</i>) from <i>Bixa urucurana</i> in Amazonia	Economic Botany 69(2): 127-135	doi:10.1007/s12231-015-9304-0	Brazil
Ramirez-Cabral NYZ, Kumar L & Taylor S	Crop niche modeling projects major shifts in common bean growing areas	Agricultural and Forest Meteorology 218-219: 102-113	doi:10.1016/j.agrformet.2015.12.002	Australia, Mexico
Wu X, Li J & Dong LY	Factors Affecting Seed Germination and Seedling Emergence of <i>Polypogon fugax</i>	Weed Science 63(2): 440-447	doi:10.1614/WS-D-14-00093.1	China

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Ahrends A, Hollingsworth PM, Ziegler AD et al.	Current trends of rubber plantation expansion may threaten biodiversity and livelihoods	Global Environmental Change 34: 48-58	doi:10.1016/j.gloenvcha.2015.06.002	China, United Kingdom, Singapore, United States
van Andel T, Ruyschaert S, Boven K & Daly L	The use of Amerindian charm plants in the Guianas	Journal of Ethnobiology and Ethnomedicine 11: 66	doi:10.1186/s13002-015-0048-9	United Kingdom, Suriname, Netherlands

advancing biodiversity science

AUTHORS	TITLE	JOURNAL	DOI/URL	AUTHOR COUNTRIES
Aguiar LMS, da Rosa ROL, Jones G & Machado RB	Effect of chronological addition of records to species distribution maps: The case of <i>Tonatia saurophila maresi</i> (Chiroptera, Phyllostomidae) in South America	Austral Ecology 40(7): 836-844	doi:10.1111/aec.12261	Brazil, United Kingdom
Albuquerque F & Beier P	Rarity-Weighted Richness: A Simple and Reliable Alternative to Integer Programming and Heuristic Algorithms for Minimum Set and Maximum Coverage Problems in Conservation Planning	PLoS ONE 10(3): e0119905	doi:10.1371/journal.pone.0119905	United States
Albuquerque F & Beier P	Using abiotic variables to predict importance of sites for species representation	Conservation Biology 29(5): 1390-1400	doi:10.1111/cobi.12520	United States
Alhajeri BH, Hunt OJ & Steppan SJ	Molecular systematics of gerbils and deomyines (Rodentia: Gerbillinae, Deomyinae) and a test of desert adaptation in the tympanic bulla	Journal of Zoological Systematics and Evolutionary Research 53(4): 312-330	doi:10.1111/jzs.12102	United States, Kuwait
Alter SE, Meyer M, Post K et al.	Climate impacts on transocean dispersal and habitat in gray whales from the Pleistocene to 2100	Molecular Ecology 24(7): 1510-1522	doi:10.1111/mec.13121	United States, Germany, Netherlands, Australia, Denmark, United Kingdom
An M, Zeng L, Zhang T & Zhong Y	Phylogeography of <i>Thlaspi arvense</i> (Brassicaceae) in China Inferred from Chloroplast and Nuclear DNA Sequences and Ecological Niche Modeling	International Journal of Molecular Sciences 16: 13339-13355	doi:10.3390/ijms160613339	China
Anguloa A, Bussing, WA & López MI	Occurrence of the tripodfish <i>Bathypterois ventralis</i> (Aulopiformes: Ipnopidae) in the Pacific coast of Costa Rica	Revista Mexicana de Biodiversidad 86(2): 546-549	doi:10.1016/j.rmb.2015.04.025	Mexico
Antonelli A, Zizka A, Silvestro D et al.	An engine for global plant diversity: Highest evolutionary turnover and emigration in the American tropics	Frontiers in Genetics 6:130	doi:10.3389/fgene.2015.00130	Sweden, Switzerland, Belgium, Colombia
Arbeláez-Cortés E, Garzón-Z JI, del Socorro Sierra M et al.	Fourteen new additions to the list of birds of Quindío department, Colombia	Check List 11(6): 1786	doi:10.15560/11.6.1786	Colombia
Badieritakis EG, Thanopoulos RC, Fantinou AA & Emmanouel NG	A qualitative and quantitative study of thrips (Thysanoptera) on alfalfa and records of thrips species on cultivated and wild <i>Medicago</i> species of Greece	Biologia 70(4): 504–515	doi:10.1515/biolog-2015-0050	Greece
Báez S, Malizia A, Carilla J et al.	Large-Scale Patterns of Turnover and Basal Area Change in Andean Forests	PLoS ONE 10(5): e0126594	doi:10.1371/journal.pone.0126594	Ecuador, Argentina, Peru, Colombia, United States, Germany, United Kingdom
Baltensperger AP & Huettmann F	Predictive spatial niche and biodiversity hotspot models for small mammal communities in Alaska: applying machine-learning to conservation planning	Landscape Ecology 30(4): 681-697	doi:10.1007/s10980-014-0150-8	United States
Barker BS, Rodríguez-Robles JA & Cook JA	Climate as a driver of tropical insular diversity: comparative phylogeography of two ecologically distinctive frogs in Puerto Rico	Ecography 38(8): 769-781	doi:10.1111/ecog.01327	United States
Barnard-Kubow KB, Debbar CL & Galloway LF	Multiple glacial refugia lead to genetic structuring and the potential for reproductive isolation in a herbaceous plant	American Journal of Botany 102(11): 1842-1853	doi:10.3732/ajb.1500267	United States
Barve S & Mason NA	Interspecific competition affects evolutionary links between cavity nesting, migration and clutch size in Old World flycatchers (Muscicapidae)	Ibis 157(2): 299-311	doi:10.1111/ibi.12233	United States
Baumann MJ, Beckman EJ, Bautista E & Witt CC	Long-distance dispersal of a sedentary Andean flycatcher species with a small geographic range, <i>Ochthoeca piurae</i> (Aves: Tyrannidae)	Check List 11 (6)	doi:10.15560/11.6.1795	United States, Peru
Bone RE, Smith JAC, Arrigo N & Buerki S	A macro-ecological perspective on crassulacean acid metabolism (CAM) photosynthesis evolution in Afro-Madagascan drylands: Euphorbiinae orchids as a case study	New Phytologist 208(2): 469-481	doi:10.1111/nph.13572	United Kingdom, Switzerland
Borah RL	An updated account of the name changes of the Dicotyledonous plant species included in the Vol: III [1939] & Vol: IV [1940] of "Flora of Assam"	Plant Archives 14(2): 983-993	http://j.mp/2dkhxRI	India
Boston ESM, Montgomery WI, Hynes R & Prodöhl PA	New insights on postglacial colonization in western Europe: the phylogeography of the Leisler's bat (<i>Nyctalus leisleri</i>)	Proceedings of the Royal Society B: Biological Sciences 282(1804)	doi:10.1098/rspb.2014.2605	United Kingdom, Denmark, Austria
Braby MF, Farias Quipildor GE, Vane-Wright RI & Lohman DJ	Morphological and molecular evidence supports recognition of <i>Danaus petilia</i> (Stoll, 1790) (Lepidoptera: Nymphalidae) as a species distinct from <i>D. chrysippus</i> (Linnaeus, 1758)	Systematics and Biodiversity 13(4): 386-402	doi:10.1080/14772000.2014.992378	Australia, United States, United Kingdom, Philippines
Breusing C, Johnson SB, Tunnicliffe V & Vrijenhoek RC	Population structure and connectivity in Indo-Pacific deep-sea mussels of the <i>Bathymodiolus septendierum</i> complex	Conservation Genetics 16(6): 1415-1430	doi:10.1007/s10592-015-0750-0	Germany, United States, Canada
Butterfield BJ	Environmental filtering increases in intensity at both ends of climatic gradients, though driven by different factors, across woody vegetation types of the southwest USA	Oikos 124(10): 1374-1382	doi:10.1111/oik.02311	United States

advancing biodiversity science

AUTHORS	TITLE	JOURNAL	DOI/URL	AUTHOR COUNTRIES
a Butynski TM & de Jong YA	Distribution and Conservation Status of the Mount Kilimanjaro Guereza <i>Colobus guereza caudatus</i> Thomas, 1885	Primate Conservation 29: 107-113	http://j.mp/23Ubt51	Kenya
Cadena EA, Anaya F & Croft DA	Giant fossil tortoise and freshwater chelid turtle remains from the middle Miocene, Quebrada Honda, Bolivia: Evidence for lower paleoelevations for the southern Altiplano	Journal of South American Earth Sciences 64(1): 190-198	doi:10.1016/j.jsames.2015.10.013	Ecuador, Bolivia, United States
Call A, Sun YX, Yu Y et al.	Genetic structure and post-glacial expansion of <i>Cornus florida</i> L. (Cornaceae): integrative evidence from phylogeography, population demographic history, and species distribution modeling	Journal of Systematics and Evolution	doi:10.1111/jse.12171	United States, China, Spain
Capblancq T, Després L, Rioux D & Mavárez J	Hybridization promotes speciation in Coenonympha butterflies	Molecular Ecology 24(24): 6209-6222	doi:10.1111/mec.13479	France
Carta A & Peruzzi L	Testing the large genome constraint hypothesis: plant traits, habitat and climate seasonality in Liliaceae	New Phytologist	doi:10.1111/nph.13769	Italy
Carvalho AF & Del Lama MA	Predicting priority areas for conservation from historical climate modelling: stingless bees from Atlantic Forest hotspot as a case study	Journal of Insect Conservation 19(3): 581-587	doi:10.1007/s10841-015-9780-7	Brazil
Castellanos-Morales G, Gámez N, Castillo-Gámez RA & Eguiarte LE	Peripatric speciation of an endemic species driven by Pleistocene climate change: the case of the Mexican prairie dog (<i>Cynomys mexicanus</i>)	Molecular Phylogenetics and Evolution 94A: 171-181	doi:10.1016/j.ympev.2015.08.027	Mexico
a Cavender-Bares J, Gonzalez-Rodriguez A, Eaton DAR, Hipp AAL, Beulke A & Manos PS	Phylogeny and biogeography of the American live oaks (<i>Quercus</i> subsection <i>Virentes</i>): A genomic and population genetics approach	Molecular Ecology 24(14): 3668-3687	doi:10.1111/mec.13269	United States, Mexico
a Chauhan JS, Singh CP, Shukla R & Parihar JS	Geospatial techniques for modelling the environmental niche of the species	Coordinates 9(3): 46-48	http://j.mp/106qdKf	India
Chefaoui RM, Assis J, Duarte CM & Serrão EA	Large-Scale Prediction of Seagrass Distribution Integrating Landscape Metrics and Environmental Factors: The Case of <i>Cymodocea nodosa</i> (Mediterranean–Atlantic)	Estuaries and Coasts 39(1): 123-137	doi:10.1007/s12237-015-9966-y	Portugal, Saudi Arabia
Chomicki G & Renner SS	Phylogenetics and molecular clocks reveal the repeated evolution of ant-plants after the late Miocene in Africa and the early Miocene in Australasia and the Neotropics	New Phytologist 207(2): 411-424	doi:10.1111/nph.13271	Germany
Chung MY, López-Pujola J, Chung JM, Kim KJ, Park SJ & Chung MG	Polyploidy in <i>Lilium lancifolium</i> : evidence of autotripolyploid and no niche divergence between diploid and triploid cytotypes in their native ranges	Flora - Morphology, Distribution, Functional Ecology of Plants 213: 57-68	doi:10.1016/j.flora.2015.04.002	Republic of Korea, Spain
a Collins RA, Ribeiro ED, Machado VN, Hrbek T & Farias IP	A preliminary inventory of the catfishes of the lower Rio Nhamundá, Brazil [Ostariophysi, Siluriformes]	Biodiversity Data Journal 3: e4162.	doi:10.3897/BDJ.3.e4162	Brazil
Convertino M, Muñoz-Carpena R, Kiker GK & Perz SG	Design of optimal ecosystem monitoring networks: hotspot detection and biodiversity patterns	Stochastic Environmental Research and Risk Assessment 29(4): 1085-1101	doi:10.1007/s00477-014-0999-8	United States
a Corbett-Detig RB, Hartl DL & Sackton TB	Natural Selection Constrains Neutral Diversity across A Wide Range of Species	PLoS Biology 13(4): e1002112	doi:10.1371/journal.pbio.1002112	United States
Coro G, Magliozzi C, Ellenbroek A & Pagano P	Improving data quality to build a robust distribution model for <i>Architeuthis dux</i>	Ecological Modelling 305: 29-39	doi:10.1016/j.ecolmodel.2015.03.011	Italy
Costea M, García MA & Stefanovic S	A Phylogenetically Based Infrageneric Classification of the Parasitic Plant Genus <i>Cuscuta</i> (Dodders, Convolvulaceae)	Systematic Botany 40(1) 269-285	doi:10.1600/036364415X686567	Canada
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Cunningham HR, Rissler LJ, Buckley LB & Urban MC	Abiotic and biotic constraints across reptile and amphibian ranges	Ecography 39(1): 1-8	doi:10.1111/ecog.01369	United States
Davis MP	Evolutionary Relationships of the Deep-Sea Pearleyes (Aulopiformes: Scopelarchidae) and a New Genus of Pearleye from Antarctic Waters	Copeia 103(1): 64-71	doi:10.1643/CI-14-139	United States
a de Ulhôa Barbosa, NP, Fernandez GW & Sanchez-Azofeifa A	A relict species restricted to a quartzitic mountain in tropical America: an example of microrefugium?	Acta Botanica Brasilica 29(3)	doi:10.1590/0102-33062014abb3731	Brazil, Canada
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Díaz S, Kattge J, Cornelissen JHC et al.	The global spectrum of plant form and function	Nature 529: 167-171	doi:10.1038/nature16489	Argentina, Germany, Netherlands, Australia, France, Colombia, United Kingdom, United States, Panama, Russian Federation, French Guiana, Italy, Canada, Costa Rica
a Diniz-Filho JAF, Barbosa ACOF, Collevatti RG et al.	Spatial autocorrelation analysis and ecological niche modelling allows inference of range dynamics driving the population genetic structure of a Neotropical savanna tree	Journal of Biogeography 43[1]: 167-177	doi:10.1111/jbi.12622	Brazil
a Doudna JW & Danielson BJ	Rapid Morphological Change in the Masticatory Structures of an Important Ecosystem Service Provider	PLoS ONE 10[6]: e0127218	doi:10.1371/journal.pone.0127218	United States
Duncan SI, Crespi EJ, Mattheus NM & Rissler LJ	History matters more when explaining genetic diversity within the context of the core-periphery hypothesis	Molecular Ecology 24[16]: 4323-4336	doi:10.1111/mec.13315	United States
a Egan AE & Pan B	<i>Pueraria stracheyi</i> , a new synonym to <i>Apio carnea</i> (Fabaceae)	Phytotaxa 218[2]: 147	doi:10.11646/phytotaxa.218.2.4	United States, China
Ertz D & Diederich P	Dismantling <i>Melaspileaceae</i> : a first phylogenetic study of <i>Buellia</i> , <i>Hemigrapha</i> , <i>Karschia</i> , <i>Labracarpion</i> and <i>Melaspilea</i>	Fungal Diversity 71[1]: 141-164	doi:10.1007/s13225-015-0321-1	Belgium, Luxembourg
Escobar LE, Awan MN & Qiao H	Anthropogenic disturbance and habitat loss for the red-listed Asiatic black bear (<i>Ursus thibetanus</i>): Using ecological niche modeling and nighttime light satellite imagery	Biological Conservation 191: 400-407	doi:10.1016/j.biocon.2015.06.040	United States, Pakistan, China
a Escobar LE, Juarez C, Medina-Vogel G & Gonzalez CM	First Report on Bat Mortalities on Wind Farms in Chile	Gayana 79[1]: 11-17	http://j.mp/2dkgLnG	Chile, United States
a Estrada-Peña A, de la Fuente J, Ostfeld RS & Cabezas-Cruz A	Interactions between tick and transmitted pathogens evolved to minimise competition through nested and coherent networks	Scientific Reports 5: 10361	doi:10.1038/srep10361	Spain, United States, France
Fei S & Yu F	Quality of presence data determines species distribution model performance: a novel index to evaluate data quality	Landscape Ecology 31[1]: 31-42	doi:10.1007/s10980-015-0272-7	United States
a Fernández M, Navarro LM, Apaza-Quevedo A et al.	Challenges and opportunities for the Bolivian Biodiversity Observation Network	Biodiversity 16[2-3]: 86-98	doi:10.1080/14888386.2015.1068710	Germany, United States, Bolivia, Spain, Chile, Switzerland, Portugal
Ferretti F, Morey Verd G, Seret B, Suli Šprem J & Micheli F	Falling through the cracks: the fading history of a large iconic predator	Fish and Fisheries	doi:10.1111/faf.12108	United States, Spain, France, Croatia
Feuda R, Bannikova AA, Zemlemerova ED et al.	Tracing the evolutionary history of the mole, <i>Talpa europaea</i>, through mitochondrial DNA phylogeography and species distribution modelling	Biological Journal of the Linnean Society 114: 495–512	doi:10.1111/bij.12459	Italy, United States, Russian Federation, Germany, Ukraine
a Fisher AE, McDade LA, Kiel CA et al.	Evolutionary History of <i>Blepharis</i> (Acanthaceae) and the Origin of C4 Photosynthesis in Section <i>Acanthodium</i>	International Journal of Plant Sciences 176[8]: 770-790	doi:10.1086/683011	Canada, United States
Forrestel EJ, Donoghue MJ & Smith MD	Functional differences between dominant grasses drive divergent responses to large herbivore loss in mesic savanna grasslands of North America and South Africa	Journal of Ecology 103(3): 714-724	doi:10.1111/1365-2745.12376	United States
a Freeman BG & Mason NA	The Geographic Distribution of a Tropical Montane Bird Is Limited by a Tree: Acorn Woodpeckers (<i>Melanerpes formicivorus</i>) and Colombian Oaks (<i>Quercus humboldtii</i>) in the Northern Andes	PLoS ONE 10[6]: e0128675	doi:10.1371/journal.pone.0128675	United States
a Fuentes-Hurtado M, Hof AR & Jansson R	Paleodistribution modeling suggests glacial refugia in Scandinavia and out-of-Tibet range expansion of the Arctic fox	Ecology and Evolution 6[1]: 170-180	doi:10.1002/ece3.1859	Chile; Sweden
a Gabriel A, Bennett C, Ba AM & Henry S	Modeling the Suitability Index of Selected Conifers on Mambilla Plateau Taraba State, Nigeria: Implication on Planted Forest	International Journal of Agroforestry Remote Sensing and GIS 1[1]: 1-9	http://j.mp/2dkhN2L	Nigeria, United States
García-Rivera G & Contreras-Ramos A	First Record of <i>Dyscinetus laevipunctatus</i> Bates (Coleoptera: Scarabaeidae, Dynastinae) in an Aquatic Environment in Mexico	Entomological News 125[1]: 63-69	doi:10.3157/021.125.0112	Mexico
Gaudreul M, Véla E & Rouhan G	Eastward colonization of the Mediterranean Basin by two geographically structured clades: The case of <i>Odontites</i> Ludw. (Orobanchaceae)	Molecular Phylogenetics and Evolution 96: 140-149	doi:10.1016/j.ympev.2015.12.008	France
a German DA	Some new and revised typifications in North Eurasian Cruciferae	Turczaninowia 17[4]: 29-41	doi:10.14258/turczaninowia.17.4.6	Germany, Russian Federation

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Glynn F, Houghton JDR & Provan J	Population genetic analyses reveal distinct geographical blooms of the jellyfish <i>Rhizostoma octopus</i> (Scyphozoa)	Biological Journal of the Linnean Society 116(3): 582-592	doi:10.1111/bij.12614	United Kingdom
Glynn F, Houghton JDR, Bastian T et al	High-resolution genetic analysis reveals extensive gene flow within the jellyfish <i>Pelagia noctiluca</i> (Scyphozoa) in the North Atlantic and Mediterranean Sea	Biological Journal of the Linnean Society Volume 117(2): 252-263	doi:10.1111/bij.12654	United Kingdom, France, Ireland, Spain
a Gnoumou A, Ouedraogo O, Schmidt M & Thiombiano A	Floristic diversity of classified forest and partial faunal reserve of Comoé-Léraba, southwest Burkina Faso	Check List 11(1)	doi:10.15560/11.1.1557	Burkina Faso, Germany
a Groom Q	Piecing together the biogeographic history of <i>Chenopodium vulvaria</i> L. using botanical literature and collections	PeerJ 3: e723	doi:10.7717/peerj.723	Belgium
a Groom Q	Using legacy botanical literature as a source of phytogeographical data	Plant Ecology and Evolution 148(2): 256-266	doi:10.5091/plecevo.2015.1048	Belgium
Grossenbacher D, Runquist RB, Goldberg EE & Brandvain Y	Geographic range size is predicted by plant mating system	Ecology Letters 18(7): 706-713	doi:10.1111/ele.12449	United States
a Grünwald Cl, Jones JM, Franz-Chávez H & Ahumada-Carrillo IT	A new species of <i>Ophryacus</i> [Serpentes: Viperidae: Crotalinae] from eastern Mexico with comments of the taxonomy of related pitvipers	Mesoamerican Herpetology 2: 388-416	http://j.mp/2dkggr	Mexico, United States
a Guisande C, Heine J, García-Roselló E et al.	FactorsR: An RWizard Application for Identifying the Most Likely Causal Factors in Controlling Species Richness	Diversity 7(4): 385-396	doi:10.3390/d7040385	Spain
a Gutiérrez EE & Pine RH	No need to replace an "anomalous" primate [Primates] with an "anomalous" bear [Carnivora, Ursidae]	ZooKeys 487: 141-154	doi:10.3897/zookeys.487.9176	United States
Harbert RS & Nixon KC	Climate reconstruction analysis using coexistence likelihood estimation [CRACLE]: A method for the estimation of climate using vegetation	American Journal of Botany 102(8): 1-13	doi:10.3732/ajb.1400500	United States
Harvey KJ, Nipperess DA, Britton DR & Hughes L	Comparison of invertebrate herbivores on native and non-native <i>Senecio</i> species: Implications for the enemy release hypothesis	Austral Ecology 40(5): 503-514	doi:10.1111/aec.12216	Australia
a Herkt KMB, Barnikel G, Skidmore AK & Fahr J	A high-resolution model of bat diversity and endemism for continental Africa	Ecological Modelling 320: 9-28	doi:10.1016/j.ecolmodel.2015.09.009	Germany, Netherlands
a Hernández-Ordóñez O, Arroyo-Rodríguez V, González-Hernández A et al.	Range extensions of amphibians and reptiles in the southeastern part of the Lacandonia rainforest, Mexico	Revista Mexicana de Biodiversidad 86(2): 457-468	doi:10.1016/j.rmb.2015.04.005	Mexico
a Hinchliff CE, Smith SA, Allman JF et al.	Synthesis of phylogeny and taxonomy into a comprehensive tree of life	Proceedings of the National Academy of Sciences of the United States of America 112(4): 12764-12769	doi:10.1073/pnas.1423041112	United States
Hinojosa LF, Gaxiola A, Pérez MF et al.	Non-congruent fossil and phylogenetic evidence on the evolution of climatic niche in the gondwana genus <i>Nothofagus</i>	Journal of Biogeography	doi:10.1111/jbi.12650	Chile, Argentina, Japan
Householder JE, Wittmann F, Tobler MW & Janovec JP	Montane bias in lowland Amazonian Peatlands: Plant assembly on heterogeneous landscapes and potential significance to palynological inference	Palaeogeography, Palaeoclimatology, Palaeoecology 423: 138-148	doi:10.1016/j.palaeo.2015.01.029	Brazil, United States, Germany, Peru
a Huang J-P & Knowles LL	The species versus subspecies conundrum: quantitative delimitation from integrating multiple data types within a single Bayesian approach in Hercules beetles	Systematic Biology 65(1)	doi:10.1093/sysbio/syv119	United States
a Hurtado-Gómez JP, Grisales-Martínez FA & Rendón-Valencia BE	Starting to fill the gap: first record of <i>Tantilla supracincta</i> [Peters, 1863] (Serpentes: Colubridae) from Colombia	Check List 11(4): 1713	doi:10.15560/11.4.1713	Colombia, Brazil
Hustad VP & Miller AN	Studies in the genus <i>Glutinoglossum</i>	Mycologia 107(3): 647-657	doi:10.3852/14-328	United States
Hustad VP & Miller AN	Maasoglossum, a basal genus in Geoglossomycetes	Mycoscience 56(6): 572-579	doi:10.1016/j.myc.2015.05.003	United States
Idohou R, Ariño, Assogbadjo AE, Kakai RG & Sinsin B	Knowledge of Diversity of Wild Palms (Arecaceae) in the Republic of Benin: Finding Gaps in the National Inventory by Combining Field and Digital Accessible Knowledge	Biodiversity Informatics 10: 45-55	doi:10.17161/bi.v10i2.4914	Benin, Spain
Ingleby SJ, Reina RG, Birmingham E & Johnson JB	Phylogenetic analyses provide insights into the historical biogeography and evolution of Brachyrhaphis fishes	Molecular Phylogenetics and Evolution 89: 104-114	doi:10.1016/j.ympev.2015.04.013	United States, Panama
Inoue K, Lang BK and Berg DJ	Past climate change drives current genetic structure of an endangered freshwater mussel species.	Molecular Ecology 24: 1910-1926	doi:10.1111/mec.13156	United States
a Isabirye BE, Masembe C, Akol AM, Mujinza H, Rwmushana I & Nankinda CK	Modeling the Potential Geographical Distribution and Ecological Niche of Selected Fruit Fly [Diptera: Tephritidae] Species in Uganda	Journal of Plant and Pest Science 2(1): 18-33	http://j.mp/2dkh01J	Uganda

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Jaca TP, Phephu N & Condé G	<i>Abutilon grandifolium</i>	Flowering Plants of Africa 64	http://j.mp/1LdpAaf	South Africa
Jermakowicz E, Wróblewska A, Brzosko E, Mirski P & Hirse T	Phylogeographical structure of the boreal-montane orchid <i>Malaxis monophyllos</i> as a result of multi-directional gene flow	Botanical Journal of the Linnean Society 178(1): 138-154	doi:10.1111/bj.12268	Poland, Estonia
Jia DR, Wang YJ, Liu TL et al.	Diploid hybrid origin of <i>Hippophaë gyantsensis</i> (Elaeagnaceae) in the western Qinghai-Tibet Plateau	Biological Journal of the Linnean Society	doi:10.1111/bij.12707	China
a Jiménez RR & Abarca JG	Records for the Mourning Gecko (<i>Lepidodactylus lugubris</i>) and its expansion in Costa Rica	Mesoamerican Herpetology 2(2): 214-217	http://j.mp/1XfigBT	Costa Rica
	Paleoendemic plants provide evidence for persistence of open, well-watered vegetation since the Cretaceous	Global Ecology and Biogeography 25(2): 127-140	doi:10.1111/geb.12389	Australia, Japan
a Käffer MI, Koch NM, Aptroot A, Martins SN & De A	New records of corticolous lichens for South America and Brazil	Plant Ecology and Evolution 148(1): 111-118	doi:10.5091/plecevo.2015.961	Brazil, Netherlands
	Spatial Patterns of Haplotype Variation in the Epiphytic Bromeliad <i>Catopsis nutans</i>	Biotropica	doi:10.1111/btp.12272	United States
a Khan AM, Qureshi R, Qaseem MF, Munir M, Illyas M & Saqib Z	Floristic Checklist of District Kotli, Azad Jammu & Kashmir	Pakistan Journal of Botany 47(5):1957-1968	http://j.mp/2dkhBRO	Pakistan
	Diversification of the cold-adapted butterfly genus <i>Deneis</i> related to Holarctic biogeography and climatic niche shifts	Molecular Phylogenetics and Evolution 92: 255-265	doi:10.1016/j.ympev.2015.06.012	Czech Republic, Slovakia, Switzerland,
Kozhoridze G, Orlovsky N, Orlovsky L, Blumberg DG & Golan-Goldhirsh A	Geographic distribution and migration pathways of Pistacia – present, past and future	Ecography 38(11): 1141-1154	doi:10.1111/ecog.01496	Israel
Kullander SO, Rahman M, Norén M & Mollah AR	Why is <i>Pseudosphromenus cupanus</i> (Teleostei: Osphronemidae) reported from Bangladesh, Indonesia, Malaysia, Myanmar, and Pakistan?	Zootaxa 3990(4): 575-583	doi:10.11646/zootaxa.3990.4.6	Sweden, Bangladesh
Laguna-Defior C, Pintado A, Green TGA, Blanquer JM & Sancho LG	Distributional and ecophysiological study on the Antarctic lichens species pair <i>Usnea antarctica/Usnea aurantiaco-atra</i>	Polar Biology	doi:10.1007/s00300-015-1832-7	Spain
Leach K, Montgomery WI & Reid N	Biogeography, macroecology and species' traits mediate competitive interactions in the order Lagomorpha	Mammal Review 45(2): 88-102	doi:10.1111/mam.12035	United Kingdom
Li G, Xu G, Guo K & Du S	Geographical boundary and climatic analysis of <i>Pinus tabulaeformis</i> in China: Insights on its afforestation	Ecological Engineering 86: 75-84	doi:10.1016/j.ecoleng.2015.10.032	China
Li SF, Mao LM, Spicer RA et al.	Late Miocene vegetation dynamics under monsoonal climate in southwestern China	Palaeogeography, Palaeoclimatology, Palaeoecology 425: 14-40	doi:10.1016/j.palaeo.2015.02.030	China, United Kingdom
Li X, Dong F, Lei F et al.	Shaped by uneven Pleistocene climate: mitochondrial phylogeographic pattern and population history of White Wagtail <i>Motacilla alba</i> (Aves: Passeriformes)	Journal of Avian Biology	doi:10.1111/jav.00826	China, Sweden, Denmark
Liede-Schumann S, Khanumb R, Mumtaz AS, Ghergheld I & Pahlevani A	Going west – A subtropical lineage (<i>Vincetoxicum</i> , Apocynaceae: Asclepiadoideae) expanding into Europe	Molecular Phylogenetics and Evolution 94A: 436-446	doi:10.1016/j.ympev.2015.09.021	Germany, Pakistan, United States, Iran
a Lim HC, Zou FS & Sheldon FH	Genetic differentiation in two widespread, open-forest bird species of Southeast Asia (<i>Copsychus saularis</i> and <i>Megalaima haemacephala</i>): Insights from ecological niche modeling	Current Zoology 61 (5)	http://j.mp/2dkiYPM	United States, China
Loera I, Ickert-Bond SM & Sosa V	Ecological consequences of contrasting dispersal syndromes in New World Ephedra: higher rates of niche evolution related to dispersal ability	Ecography 38(12): 1187-1199	doi:10.1111/ecog.01264	Mexico, United States
Loskutov IG, Melnikova SV & Bagmet LV	Eco-geographical assessment of <i>Avena</i> L. wild species at the VIR herbarium and genebank collection	Genetic Resources and Crop Evolution	doi:10.1007/s10722-015-0344-1	Russian Federation
Lyu N, Päckert M, Tietze DT & Sun YH	Uncommon paleodistribution patterns of <i>Chrysolophus</i> pheasants in east Asia: explanations and implications	Journal of Avian Biology 46(5): 528-537	doi:10.1111/jav.00590	China, Germany
Mairal M, Pokorný L, Aldasoro JJ, Alarcón M & Sanmartín I	Ancient vicariance and climate-driven extinction explain continental-wide disjunctions in Africa: the case of the Rand Flora genus <i>Canarina</i> (Campanulaceae)	Molecular Ecology 24(6): 1335-1354	doi:10.1111/mec.13114	Spain
Mansanet-Salvador CJ, Ferrer-Gallego PP, Ferrando I & Laguna E	Notas sobre el complejo taxonómico <i>Cardamine flexuosa</i> with. (cruciferae) y su presencia en la Comunidad Valenciana	Flora Montiberica 59: 72-82	http://j.mp/2dkiOld	Spain

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Marín-Gómez OH, Polanco JM, Arango Giraldo D & Ospina Duque A	A New Population of the Hooded Antpitta (<i>Grallaricula cucullata</i> ; Grallariidae) for the Colombian Central Andes	Acta Biológica Colombiana, 20[1]: 229-232	doi:10.15446/abc.v20n1.42507	Colombia
Mason NA & Taylor SA	Differentially expressed genes match bill morphology and plumage despite largely undifferentiated genomes in a Holarctic songbird	Molecular Ecology 24[12]: 3009-3025	doi:10.1111/mec.13140	United States
McDonnell A, Fishbein M, Quinn M & Hare T	<i>Matelea chihuahuensis</i> (Apocynaceae): An addition to the flora of the United States and a synopsis of the species	Journal of the Botanical Research Institute of Texas 9[1]: 187-194	http://j.mp/2dkgZLi	United States
McHugh JV & Chaboo CS	Beetles (Coleoptera) of Peru: A Survey of the Families. Erotylidae Latreille, 1802	Journal of the Kansas Entomological Society 88[2]: 274-282	doi:10.2317/kent-88-02-274-282.1	United States
McQuillan MA & Rice AM	Differential effects of climate and species interactions on range limits at a hybrid zone: potential direct and indirect impacts of climate change	Ecology and Evolution 5[21]: 5120-5137	doi:10.1002/ece3.1774	United States
Mendoza ÁM, Ospina OE, Cárdenas-Henao H & García-R JC	A likelihood inference of historical biogeography in the world's most diverse terrestrial vertebrate genus: Diversification of direct-developing frogs [Craugastoridae: <i>Pristimantis</i>] across the Neotropics	Molecular Phylogenetics and Evolution 85: 50-58	doi:10.1016/j.ympev.2015.02.001	Colombia, Puerto Rico, New Zealand
Meyer C, Kreft H, Guralnick RP & Jetz W	Global priorities for an effective information basis of biodiversity distributions	Nature Communications 6: 8221	doi:10.1038/ncomms9221	Germany, United States
Mill RR	A Monographic Revision of the Genus <i>Podocarpus</i> (Podocarpaceae): III. The Species of the Central American and Northern Mexico Bioregions	Edinburgh Journal of Botany 72[2]: 243-341	doi:10.1017/S0960428615000050	United Kingdom
Molineri C, Salles FF & Peters JG	Phylogeny and biogeography of Asthenopodinae with a revision of <i>Asthenopus</i> , reinstatement of <i>Asthenopodes</i> , and the description of the new genera <i>Hubbardipes</i> and <i>Priasthenopus</i> (Ephemeroptera, Polymitarcyidae)	Zookeys 478: 45-128.	doi:10.3897/zookeys.478.8057	Argentina, Brazil, United States
Moonlight PW, Richardson JE, Tebbitt MC et al.	Continental-scale diversification patterns in a megadiverse genus: the biogeography of Neotropical Begonia	Journal of Biogeography 42[6]: 1137-1149	doi:10.1111/jbi.12496	United Kingdom, Colombia, United States, Singapore, China, Chinese Taipei
Moreau CVE, Aguera A, Jossart Q & Danis B	Southern Ocean Asteroidea: a proposed update for the Register of Antarctic Marine Species	Biodiversity Data Journal 3: e7062	doi:10.3897/BDJ.3.e7062	Belgium
Moreno-Amata E, Mateo RG, Nieto-Lugilde D et al.	Impact of model complexity on cross-temporal transferability in Maxent species distribution models: An assessment using paleobotanical data	Ecological Modelling 312: 308-317	doi:10.1016/j.ecolmodel.2015.05.035	Spain, Switzerland, Denmark, United States
Morris H, Plavcová L, Čvecko P et al.	A global analysis of parenchyma tissue fractions in secondary xylem of seed plants	New Phytologist 209[4]: 1553-1565	doi:10.1111/nph.13737	Germany, Canada, United States, Australia, China
Mota-Vargas C & Rojas-Soto OR	Taxonomy and ecological niche modeling: Implications for the conservation of wood partridges (genus <i>Dendrocygna</i>)	Journal for Nature Conservation 29: 1-13	doi:10.1016/j.jnc.2015.10.003	Mexico
Neubauer TA, Harzhauser M, Mandic O, Georgopoulou E & Kroh A	Paleobiogeography and historical biogeography of the non-marine caenogastropod family melanopsidae	Palaeogeography, Palaeoclimatology, Palaeoecology 444[15]: 124-143	doi:10.1016/j.palaeo.2015.12.017	Austria
Noguera-Urbano EA & Escalante T	Datos geográficos de los murciélagos (Chiroptera) en el Neotrópico	Revista de Biología Tropical 62[1]: 211-225	http://j.mp/10oJcts	Mexico
Nürk NM, Uribe-Convers S, Gehrke B, Tank DC & Blattner FR	Oligocene niche shift, Miocene diversification – cold tolerance and accelerated speciation rates in the St. John's Worts (Hypericum, Hypericaceae)	BMC Evolutionary Biology 15: 80	doi:10.1186/s12862-015-0359-4	Germany, United States
Ocheltree TW, Nippert JB & Prasad PVV	A safety vs efficiency trade-off identified in the hydraulic pathway of grass leaves is decoupled from photosynthesis, stomatal conductance and precipitation	New Phytologist	doi:10.1111/nph.13781	United States
Ogburn RM & Edwards EJ	Life history lability underlies rapid climate niche evolution in the angiosperm clade Montiaceae	Molecular Phylogenetics and Evolution 92: 181-192	doi:10.1016/j.ympev.2015.06.006	United States
Oliveira U, Brescovit AD & Santos AJ	Delimiting Areas of Endemism through Kernel Interpolation	PLoS ONE 10[1]: e0116673	doi:10.1371/journal.pone.0116673	Brazil
Onstein RE, Carter RJ, Xing YW, Richardson JE & Linder HP	Do Mediterranean-type ecosystems have a common history? – insights from the Buckthorn family (Rhamnaceae)	Evolution 69[3]: 756-71	doi:10.1111/evo.12605	Switzerland, New Zealand, United States, United Kingdom, Colombia

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Orlov AM & Cotton CF	New data on the rare deep-sea skate <i>Amblyraja jensei</i> (Rajidae) from the North Atlantic Ocean	Journal of Ichthyology 55(4): 478-496	doi:10.1134/S0032945215040086	Russian Federation, United States
Ortego J, Noguerales V, Gugger PF & Sork VL	Evolutionary and demographic history of the Californian scrub white oak species complex: An integrative approach	Molecular Ecology 24(24): 6188-6208	doi:10.1111/mec.13457	Spain, United States
Otálora MAG, Belinchón R, Prieto M, Aragón G, Izquierdo P & Martínez I	The threatened epiphytic lichen <i>Lobaria pulmonaria</i> in the Iberian Peninsula: Genetic diversity and structure across a latitudinal gradient	Fungal Biology 119(9): 802-811	doi:10.1016/j.funbio.2015.05.004	Spain
Owen CL, Bracken-Grissom H, Stern D & Crandall KA	A synthetic phylogeny of freshwater crayfish: insights for conservation	Philosophical Transactions B 370(1662): 20140009	doi:10.1098/rstb.2014.0009	United States
Owens HL	Evolution of codfishes (Teleostei: Gadinae) in geographical and ecological space: evidence that physiological limits drove diversification of subarctic fishes	Journal of Biogeography 42(6): 1091-1102	doi:10.1111/jbi.12483	United States
Oyama K, Martínez-Ramos M, Peñaloza-Ramírez JM, Rocha-Ramírez V, Armenta-Medina EG & Hernández-Soto P	Population genetic structure of an extremely logged tree species <i>Guaiacum sanctum</i> L. in the Yucatan Peninsula, Mexico	Botanical Sciences	doi:10.17129/botsci.278	Mexico, United States
Paz A, Ibáñez R, Lips KR & Crawford AJ	Testing the role of ecology and life history in structuring genetic variation across a landscape: A trait-based phylogeographic approach	Molecular Ecology 24(14): 3723-3737	doi:10.1111/mec.13275	Colombia, Panama, United States
Pellissier L	Stability and the competition-dispersal trade-off as drivers of speciation and biodiversity gradients	Frontiers in Ecology and Evolution 3:52	doi:10.3389/fevo.2015.00052	Switzerland
Pellissier L, Eidesen PB, Ehrlich D et al.	Past climate-driven range shifts and population genetic diversity in arctic plants	Journal of Biogeography	doi:10.1111/jbi.12657	Switzerland, Norway, Austria, Denmark, Finland
Pellissier L, Litsios G, Fishbein M, Salamin N, Agrawal AA & Rasmann S	Different rates of defense evolution and niche preferences in clonal and nonclonal milkweeds (<i>Asclepias</i> spp.)	New Phytologist 209(3): 1230-1239	doi:10.1111/nph.13649	Switzerland, United States
Perea S & Doadrio I	Phylogeography, historical demography and habitat suitability modelling of freshwater fishes inhabiting seasonally fluctuating Mediterranean river systems: a case study using the Iberian cyprinid <i>Squalius valentinus</i>	Molecular Ecology 24(12): 3706-3722	doi:10.1111/mec.13274	Spain
Perez MF, Carstens BC, Rodrigues GL & Moraes EV	Anonymous nuclear markers reveal taxonomic incongruence and long-term disjunction in a cactus species complex with continental-island distribution in South America	Molecular Phylogenetics and Evolution 95: 11-19	doi:10.1016/j.ympev.2015.11.005	Brazil, United States
Pietsch TW & Orr JW	Fishes of the Salish Sea: a compilation and distributional analysis	NOAA Professional Paper NMFS 18	http://j.mp/2dkjX2t	United States
Poisot T, Gravel D, Leroux S et al.	Synthetic datasets and community tools for the rapid testing of ecological hypotheses	Ecography	doi:10.1111/ecog.01941	Canada, United States, New Zealand, Spain
Popiela A, Łyskob A, Attila Molnár AV, Käcklid Z & Lukácsé BA	Distribution, morphology and habitats of <i>Elatine triandra</i> (Elatinaceae) in Europe, with particular reference to the central part of the continent	Acta Botanica Gallica: Botany Letters 162(4): 325-337	doi:10.1080/12538078.2015.1088470	Poland, Hungary
Ramírez-Barahona S & Luna-Vega I	Geographic Differentiation of Tree Ferns (Cyatheales) in Tropical America	American Fern Journal 105(2): 73-85	doi:10.1640/amfj-105-02-73-85.1	Mexico
Rijal DP, Alm T, Jahodová Š, Stoenien HK & Alsolos IG	Reconstructing the invasion history of <i>Heracleum persicum</i> (Apiaceae) into Europe	Molecular Ecology 24(22): 5522-5543	doi:10.1111/mec.13411	Norway, Czech Republic
Rodríguez A, Gómez JF & Nieves-Aldrey JL	Modeling the potential distribution and conservation status of three species of oak gall wasps (Hymenoptera: Cynipidae) in the Iberian range	Journal of Insect Conservation 19(5): 921-934	doi:10.1007/s10841-015-9810-5	Spain
Rodríguez-Correa H, Oyama K, MacGregor-Fors I & González-Rodríguez A	How Are Oaks Distributed in the Neotropics? A Perspective from Species Turnover, Areas of Endemism, and Climatic Niches	International Journal of Plant Sciences 176(3): 222-231	doi:10.1086/679904	Mexico
Rodríguez-Gómez F & Ornelas JF	At the passing gate: past introgression in the process of species formation between <i>Amazilia violiceps</i> and <i>A. viridifrons</i> hummingbirds along the Mexican Transition Zone	Journal of Biogeography 42(7): 1305-1318	doi:10.1111/jbi.12506	Mexico
Rodríguez-San Pedro A, Peñaranda DA, Allendes JL & Castillo MLC	Update on the distribution of <i>Myotis atacamensis</i> (Chiroptera: Vespertilionidae): first record from central Chile and description of echolocation calls	Chiroptera Neotropical 21(2): 1342-1346	http://j.mp/2dkiwRI	Chile
Rojas C, Lado C & Valverde R	First record of the myxomycete genus <i>Colloderma</i> in Central America	Check List 11(4): 1716, 21	doi:10.15560/11.4.1716	Spain, Costa Rica
Rosenfeld S, Aldea C, Mansilla A, Marambio J & Ojeda J	Richness, systematics, and distribution of molluscs associated with the macroalgae <i>Gigartina skottsbergii</i> in the Strait of Magellan, Chile: A biogeographic affinity study	ZooKeys 519: 49-100	doi:10.3897/zookeys.519.9676	Chile

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a Rubel F, Brugger K, Pfeffer M et al.	Geographical distribution of <i>Dermacentor marginatus</i> and <i>Dermacentor reticulatus</i> in Europe	Ticks and Tick-borne Diseases 7(1): 224-233	doi:10.1016/j.ttbdis.2015.10.015	Austria, Germany, Romania, Ukraine
Ruiz-Sánchez E & Sosa V	Origin and evolution of fleshy fruit in woody bamboos	Molecular Phylogenetics and Evolution 91: 123-134	doi:10.1016/j.ympev.2015.05.020	Mexico
Ruiz-Sánchez A, Renton K, Landgrave-Ramírez R, Mora-Aguilar EF, Rojas-Soto O	Ecological niche variation in the Wilson's Warbler (<i>Cardellina pusilla</i>) complex	Journal of Avian Biology Volume 46(5): 516-527	doi:10.1111/jav.00531	Mexico
Sakalli A	How can effect the synergy of climate change, soil units and vegetation groups the potential global distribution of plants up to 2300: a modelling study for prediction of potential global distribution and migration of the N2 fixing species <i>Alnus</i> spp.	Biogeosciences Discussions 12: 815-864	doi:10.5194/bgd-12-815-2015	Italy
a Salas-Araiza MD, Guzmán-Mendoza R, Martínez-Jaime OA, González-Márquez MA & Figueroa AL	Species Richness of Noctuid Moths (Lepidoptera Noctuidae) from the State of Guanajuato, Mexico	Florida Entomologist 98(4): 1262-1265	doi:10.1653/024.098.0444	Mexico
a Sanchez A	Fidelity and Promiscuity in an Ant-Plant Mutualism: A Case Study of <i>Triplaris</i> and <i>Pseudomyrmex</i>	PLoS ONE 10(12): e0143535	doi:10.1371/journal.pone.0143535	Colombia
Sandel B, Gutiérrez AG, Reich PB, Schrödt F, Dickie J & Kattge J	Estimating the missing species bias in plant trait measurements	Journal of Vegetation Science 26(5): 828-838	doi:10.1111/jvs.12292	Denmark, Chile, United States, Australia, Germany, United Kingdom, Switzerland
a Sanyal A & Decocq G	Biological Flora of the British Isles: <i>Crambe maritima</i>	Journal of Ecology 103: 769-788	doi:10.1111/1365-2745.12389	France
Schiaparelli S, Ahyong ST & Bowden D	Evidence of niche conservatism and host fidelity in the polar shrimp <i>Lebbeus kiae</i> n. sp. (Decapoda: Caridea: Thoridae) from the Ross Sea, Antarctica	Hydrobiologia 761(1): 45-69	doi:10.1007/s10750-015-2403-1	Italy, Australia, New Zealand
Schuettpelz E, Pryer KM & Windham MD	A Unified Approach to Taxonomic Delimitation in the Fern Genus <i>Pentagramma</i> (Pteridaceae)	Systematic Botany 40(3): 629-644	doi:10.1600/036364415X689366	United States
a Schwaller R, Raes N, de Boer HJ, Vos RA, van Vugt RR & Gravendeel B	Phylogenetic analysis of niche divergence reveals distinct evolutionary histories and climate change implications for tropical carnivorous pitcher plants	Diversity and Distributions 22(1): 97-110	doi:10.1111/ddi.12382	Netherlands, Sweden, Norway
a Serrano-Serrano ML, Perret M, Guignard M, Chautems A, Silvestro D & Salamin N	Decoupled evolution of floral traits and climatic preferences in a clade of Neotropical Gesneriaceae	BMC Evolutionary Biology 15: 247	doi:10.1186/s12862-015-0527-6	Switzerland, Sweden
a Sevink J, Verstraten JM, Kooijman AM et al.	Rare Moss-Built Microterraces in a High-Altitude, Acid Mine Drainage-Polluted Stream (Cordillera Negra, Peru)	Water, Air, & Soil Pollution Volume 22(1): 97-110	doi:10.1007/s11270-015-2390-x	Netherlands, Peru
Shabani F & Kumar L	Should species distribution models use only native or exotic records of existence or both?	Ecological Informatics 29: 57-65	doi:10.1016/j.ecoinf.2015.07.006	Australia
Sheehan MJ, Botero CA, Hendry TA et al.	Different axes of environmental variation explain the presence vs. extent of cooperative nest founding associations in <i>Polistes</i> paper wasps	Ecology Letters 18(10): 1057-1067	doi:10.1111/ele.12488	United States, Panamá
a Silva DP, Varela S, Nemésio A & De Marco P Jr	Adding Biotic Interactions into Paleodistribution Models: A Host-Cleptoparasite Complex of Neotropical Orchid Bees	PLoS ONE 10(6): e0129890	doi:10.1371/journal.pone.0129890	Brazil, Germany
Sosnovsky Y	Sucking herbivore assemblage composition on greenhouse Ficus correlates with host plant leaf architecture	Arthropod-Plant Interactions 10(1): 55-69	doi:10.1007/s11829-015-9408-6	Ukraine
Soto-Centeno JA, O'Brien M & Simmons NB	The Importance of Late Quaternary Climate Change and Karst on Distributions of Caribbean Mormoopid Bats	American Museum Novitates 3847: 1-32	doi:10.1206/3847.1	United States
Spalink D, Drew BT, Pace MC et al.	Evolution of geographical place and niche space: Patterns of diversification in the North American sedge (Cyperaceae) flora	Molecular Phylogenetics and Evolution 95: 183-195	doi:10.1016/j.ympev.2015.09.028	United States, China
Spano CA, Hernández CE & Rivadeneira MM	Evolutionary dispersal drives the latitudinal diversity gradient of stony corals	Ecography	doi:10.1111/ecog.01855	Chile
a Sproul JS, Houston DD, Nelson CR, Evans RP, Crandall KA & Shiozawa DK	Climate oscillations, glacial refugia, and dispersal ability factors influencing the genetic structure of the least salmonfly, <i>Pteronarcella badia</i> (Plecoptera), in Western North America	BMC Evolutionary Biology 15: 279	doi:10.1186/s12862-015-0553-4	United States
Steadman DW, Albury NA, Kakuk B et al.	Vertebrate community on an ice-age Caribbean island	Proceedings of the National Academy of Sciences of the United States of America 112(44): E5963-E5971	doi:10.1073/pnas.1516490112	United States, Bahamas

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Stenoien C, McCoshum S, Caldwell W, De Anda A & Oberhauser K	New Reports that Monarch Butterflies (Lepidoptera: Nymphalidae, <i>Danaus plexippus</i> Linnaeus) are Hosts for a Pupal Parasitoid (Hymenoptera: Chalcidoidea, <i>Pteromalus cassotis</i> Walker)	Journal of the Kansas Entomological Society 88(1): 16-26	doi:10.2317/jkes1402.22.1	United States
a Tamayo J & Cruz L	Composición y estructura aviar en dos parches de bosque seco en el valle del cauca	Boletin Cientifico del Centro de Museos Hist. Nat. U. de Caldas 19(1): 125-146	doi:10.17151/bccm.2015.19.1.9	Colombia
Thesing BD, Noyes RD, Starkey DE & Shepard DB	Pleistocene climatic fluctuations explain the disjunct distribution and complex phylogeographic structure of the Southern Red-backed Salamander, <i>Plethodon serratus</i>	Evolutionary Ecology 30(1): 89-104	doi:10.1007/s10682-015-9794-3	United States
Title PO & Burns KJ	Rates of climatic niche evolution are correlated with species richness in a large and ecologically diverse radiation of songbirds	Ecology Letters 18(5): 433-440	doi:10.1111/ele.12422	United States
Tobón-Sampedro A & Rojas-Soto OR	The geographic and seasonal potential distribution of the little known Fuertes's Oriole <i>Icterus fuertesi</i>	Bird Conservation International 25(4): 489-502	doi:10.1017/S0959270914000501	Mexico
Tourne DCM Martorano LG, Brienza S et al.	Potential topoclimatic zones as support for forest plantation in the Amazon: Advances and challenges to growing paricá (<i>Schizolobium amazonicum</i>)	Environmental Development	doi:10.1016/j.envdev.2015.11.002	Brazil
Ullah Z, Ahmad M & Khgan SM	Phytogeographic analysis and Diversity of grasses and sedges [Poales] of Northern Pakistan	Pakistan Journal of Botany 47(SI): 93-104	http://dx.doi.org/10.17151/bccm.2015.19.1.9	Pakistan
a Ureña-Aranda CA, Rojas-Soto O, Martínez-Meyer E, Yáñez-Arenas C, Landgrave Ramírez R & Espinosa de los Monteros A	Using Range-Wide Abundance Modeling to Identify Key Conservation Areas for the Micro-Endemic Bolson Tortoise (<i>Gopherus flavomarginatus</i>)	PLoS ONE 10(6): e0131452	doi:10.1371/journal.pone.0131452	Mexico
a Velasco JA, Martínez-Meyer E, Flores-Villela O et al.	Climatic niche attributes and diversification in Anolis lizards	Journal of Biogeography 43(1): 134–144	doi:10.1111/jbi.12627	Germany, Mexico, United Kingdom, Colombia
a Venegas-Barrera CS, Correa-Sandoval A, Mora-Olivo A & Horta-Vega JV	Representatividad geográfica y ambiental de los registros de gastrópodos, pteridofitas y plantas acuáticas en el estado de Tamaulipas, México	Revista Mexicana de Biodiversidad 86(3): 719-729	doi:10.1016/j.rmb.2015.06.002	Mexico
Verheijen LM, Aerts R, Bönnisch G, Kattge J & Van Bodegom PM	Variation in trait trade-offs allows differentiation among predefined plant functional types: implications for predictive ecology	New Phytologist 209(2): 563-575	doi:10.1111/nph.13623	Netherlands, Germany
Villaverde T, Escudero M, Luceño M & Martín-Bravo S	Long-distance dispersal during the middle-late Pleistocene explains the bipolar disjunction of <i>Carex maritima</i> (Cyperaceae)	Journal of Biogeography 42(10): 1820-1831	doi:10.1111/jbi.12559	Spain
Volis S, Tu T, Deng T, Zaretsky M, Fogel K, Sun H	Phylogeographic study of <i>Mandragora</i> L. reveals a case of ancient human assisted migration	Israel Journal of Plant Sciences 62(3): 176-186	doi:10.1080/07929978.2015.1063922	China, Israel
Wasof S, Lenoir J, Arrestad PA et al.	Disjunct populations of European vascular plant species keep the same climatic niches	Global Ecology and Biogeography 24(12): 1401-1412	doi:10.1111/geb.12375	France, Norway, United States, United Kingdom, Sweden, Denmark, Germany, Austria, Switzerland, Iceland, Finland, Belgium, Estonia
Watling JL, Laura A. Brandt LA, Bucklin DA et al.	Performance metrics and variance partitioning reveal sources of uncertainty in species distribution models	Ecological Modelling 309–310(10–24): 48-59	doi:10.1016/j.ecolmodel.2015.03.017	United States
a Werner GDA, Cornwell WK, Cornelissen JHC & Kiers ET	Evolutionary signals of symbiotic persistence in the legume-rhizobia mutualism	Proceedings of the National Academy of Sciences 112(33): 10101-10103	doi:10.1073/pnas.1424030112	Netherlands, Australia
Wieczorek K, Kanturski M, Junkiert L & Bugaj-Nawrocka A	A comparative morphometric study of the genus <i>Drepanosiphonella</i> Davatchi, Hille Ris Lambers & Remaudière (Hemiptera: Aphididae: Drepanosiphinae)	Zoologischer Anzeiger - A Journal of Comparative Zoology 257: 39-53	doi:10.1016/j.jcz.2015.04.002	Poland
a Willis CG, Franzone BF, Xi ZX & Davis CC	Corrigendum: The establishment of Central American migratory corridors and the biogeographic origins of seasonally dry tropical forests in Mexico	Frontiers in Genetics 6: 64	doi:10.3389/fgene.2015.00064	United States
Willis KJ, Seddon AWR, Long PR et al.	Remote assessment of locally important ecological features across landscapes: how representative of reality?	Ecological Applications 25: 1290-1302	doi:10.1890/14-1431.1	United Kingdom, Norway
Xing Y, Gandolfo MA & Linder HP	The Cenozoic biogeographical evolution of woody angiosperms inferred from fossil distributions. Global Ecology and Biogeography	Global Ecology and Biogeography 24(11): 1290-1301	doi:10.1111/geb.12383	Switzerland, United States

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a Yu H, Zhang Y, Liu L, Qi W, Li S & Hu Z	Combining the least cost path method with population genetic data and species distribution models to identify landscape connectivity during the late Quaternary in Himalayan hemlock	Ecology and Evolution 5(24): 5781-5791	doi:10.1002/ece3.1840	China
Zha LS, Wen TC, Kang JC & Hyde KD	The Genus <i>Bolivaritettix</i> in Thailand [Orthoptera: Tetrigidae: Metrodorinae], with Three New Species and One New Record	Entomological News 125(2): 136-146	doi:10.3157/021.125.0207	China, Thailand
Zhang X, Li Y, Liu C, Xia T, Zhang Q & Fang Y	Phylogeography of the temperate tree species <i>Quercus acutissima</i> in China: Inferences from chloroplast DNA variations	Biochemical Systematics and Ecology 63: 190-197	doi:10.1016/j.bse.2015.10.010	China
a Zhao JL, Xia YM, Cannon CH, Kress WJ & Li QJ	Evolutionary diversification of alpine ginger reflects the early uplift of the Himalayan-Tibetan Plateau and rapid extrusion of Indochina	Gondwana Research	doi:10.1016/j.gr.2015.02.004	China, United States

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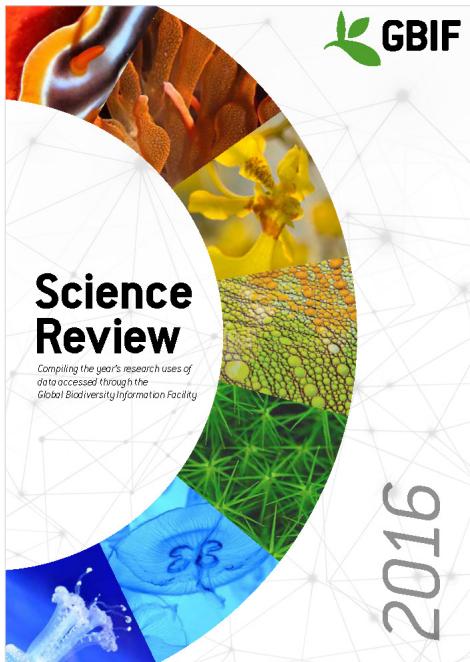
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August T, Harvey M, Lightfoot P, Kilbey D, Papadopoulos T & Jepson P	Emerging technologies for biological recording	Biological Journal of the Linnean Society 115(3): 731-749	doi:10.1111/bij.12534	United Kingdom
Authmann C, Beilschmidt C, Drönnér J, Mattig M & Seeger B	VAT: A System for Visualizing, Analyzing and Transforming Spatial Data in Science	Datenbank-Spektrum 15(3): 175-184	doi:10.1007/s13222-015-0197-y	Germany
Belbin L & Williams KJ	Towards a national bio-environmental data facility: experiences from the Atlas of Living Australia	International Journal of Geographical Information Science 30(1): 108-125	doi:10.1080/13658816.2015.1077962	Australia
Böhm M & Collen B	Toward equality of biodiversity knowledge through technology transfer	Conservation Biology 29(5): 1290-1302	doi:10.1111/cobi.12529	United Kingdom
Candela L, Castelli D, Manghi P & Tani A	Data journals: A survey	Journal of the Association for Information Science and Technology 66(9): 1747-1762	doi:10.1002/asi.23358	Italy
Cardoso SD, Amanqui FK, Serique KJA, dos Santos JLC & Moreira DA	SWI: A Semantic Web Interactive Gazetteer to support Linked Open Data	Future Generation Computer Systems 54: 389-398	doi:10.1016/j.future.2015.05.006	Brazil
a Costello MJ, Claus S, Dekeyzer S et al.	Biological and ecological traits of marine species	PeerJ 3:e1201	doi:10.7717/peerj.1201	New Zealand, Belgium, Denmark, United Kingdom
Costello MJ, Vanhoorne B & Appeltans W	Conservation of biodiversity through taxonomy, data publication, and collaborative infrastructures	Conservation Biology 29(4): 1094-1099	doi:10.1111/cobi.12496	New Zealand, Belgium
a Deck J, Guralnick R, Walls R et al.	Meeting report: Identifying practical applications of ontologies for biodiversity informatics	Standards in Genomic Sciences 10: 25	doi:10.1186/s40793-015-0014-0	United States, Canada
a Dikow T & Agosti D	Utilizing online resources for taxonomy: a cybertcatalog of Afrotropical apiocerid flies (Insecta: Diptera: Apioceridae)	Biodiversity Data Journal 3: e5707	doi:10.3897/BDJ.3.e5707	United States, Switzerland
a Feeley K	Are We Filling the Data Void? An Assessment of the Amount and Extent of Plant Collection Records and Census Data Available for Tropical South America	PLoS ONE 10(4): e0125629	doi:10.1371/journal.pone.0125629	United States
González Vilas L, Guisande C, Vari RP et al.	Geospatial data of freshwater habitats for macroecological studies: an example with freshwater fishes	International Journal of Geographical Information Science 30(1): 126-141	doi:10.1080/13658816.2015.1072629	Spain, United States, Colombia
a Guralnick RP, Cellinese N, Deck J et al.	Community Next Steps for Making Globally Unique Identifiers Work for Biocollections Data	Zookeys (494):133–154	doi:10.3897/zookeys.494.9352	United States, Bulgaria, Switzerland, Germany, United Kingdom
Heerlien M, van Leusen J, Schnörr S, de Jong-Kole S, Raes N & van Hulsen K	The Natural History Production Line	Journal on Computing and Cultural Heritage 8(1): 3	doi:10.1145/2644822	Netherlands
Isaac NJB & Pocock MJO	Bias and information in biological records	Biological Journal of the Linnean Society 115(3): 522-53	doi:10.1111/bij.12532	United Kingdom

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a Kelbert P, Droege G, Barker K et al.	B-HIT - A Tool for Harvesting and Indexing Biodiversity Data	PLoS One 10(11):e0142240	doi:10.1371/journal.pone.0142240	Germany, United States; Denmark; Australia
a Kong X, Huang M & Duan R	SDMdata: A Web-Based Software Tool for Collecting Species Occurrence Records	PLoS ONE 10(6): e0128295	doi:10.1371/journal.pone.0128295	China
a Maldonado C, Molina CI, Zizka A et al.	Estimating species diversity and distribution in the era of Big Data: to what extent can we trust public databases?	Global Ecology and Biogeography 24(8): 973-984	doi:10.1111/geb.12326	Denmark, Bolivia, Sweden, United States, Peru, Brazil
a Miller J, Agosti D, Penev L et al.	Integrating and visualizing primary data from prospective and legacy taxonomic literature	Biodiversity Data Journal 3: e5063	doi:10.3897/BDJ.3.e5063	Netherlands, Switzerland, Bulgaria, Germany, Australia, United Kingdom
a Miller J, Georgiev T, Stoev P, Sautter G & Penev L	Corrected data re-harvested: curating literature in the era of networked biodiversity informatics	Biodiversity Data Journal 3: e4552	doi:10.3897/BDJ.3.e4552	Netherlands, Switzerland, Bulgaria
Miyazaki Y, Murase A, Shiina M, Masui R & Senou H	Integrating and Utilizing Citizen Biodiversity Data on the Web for Science: An Example of a Rare Triggerfish Hybrid Image Provided by a Sport Fisherman	Journal of Coastal Research 31(4): 1035-1039	doi:10.2112/JCOASTRES-D-14-00170.1	Japan
a Nelson G, Sweeney P, Wallace LE et al.	Digitization Workflows for Flat Sheets and Packets of Plants, Algae, and Fungi	Applications in Plant Sciences 3 (9): 1500065.	doi:10.3732/apps.1500065	United States
a Provete DB	Editorial: Wherefore and whither a Check List? The journal at the age of 10	Check List 11(4): 1680	doi:10.15560/11.4.1680	Brazil
a Ramirez KS, Döring M, Eisenhauer N et al.	Towards a global platform for linking soil biodiversity data	Frontiers in Ecology and Evolution 3: 91	doi:10.3389/fevo.2015.00091	Netherlands, Denmark, Germany, Italy, United States, Canada, United Kingdom
a Thessen AE, Bunker DE, Buttigieg PL et al.	Emerging semantics to link phenotype and environment	PeerJ 3:e1470	doi:10.7717/peerj.1470	United States, Germany, Argentina, Netherlands
a Vandepitte L, Bosch S, Tyberghein L et al.	Fishing for data and sorting the catch: assessing the data quality, completeness and fitness for use of data in marine biogeographic databases	Database 2015: bau125	doi:10.1093/database/bau125	Belgium
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Wisz MS, Broennimann O, Grönkjaer P et al.	Reply to 'Sources of uncertainties in cod distribution models'	Nature Climate Change 5: 790-791	doi:10.1038/nclimate2762	Denmark, Greenland, Switzerland, France

data papers

AUTHORS	TITLE	JOURNAL	DOI/URL	AUTHOR COUNTRIES
a Brosens D, Breine J, Van Thuyne G, Belpaire C, Desmet P & Verreycken H	VIS – A database on the distribution of fishes in inland and estuarine waters in Flanders, Belgium	ZooKeys 475: 119-145	doi:10.3897/zookeys.475.8556	Belgium
a Dikow T	Review of <i>Anasillomos Londt</i> , 1983 with the description of a new species [Insecta: Diptera: Asilidae]	Biodiversity Data Journal 3: e4652	doi:10.3897/BDJ.3.e4652	United States
a Gastauer M, Leyh W, Miazaki AS & Meira-Neto JAA	Vascular plant community composition from the campos rupestres of the Itacolomi State Park, Brazil	Biodiversity Data Journal 3: e4507	doi:10.3897/BDJ.3.e4507	Brazil
Isaia M, Paschetta M & Chiarle A	Annotated checklist of the spiders [Arachnida, Araneae] of the Site of Community Importance and Special Area of Conservation "Alpi Marittime" [NW Italy]	Zoosystema 37(1): 57–114	doi:10.5252/z2015n1a4	Italy
a Migeon A	The Jean Gutierrez spider mite collection	ZooKeys 489: 15-24	doi:10.3897/zookeys.489.9292	France
Ouvrard D, Burckhardt D & Cocquempot C	An annotated checklist of the jumping plant-lice [Insecta: Hemiptera: Psylloidea] from the Mercantour National Park, with seven new records for France and one new Synonymy	Zoosystema 37(1): 251-271.	doi:10.5252/z2015n1a13	United Kingdom; Switzerland; France
a Parys KA, Tripodi AD & Sampson BJ	The Giant Resin Bee, <i>Megachile sculpturalis</i> Smith: New Distributional Records for the Mid- and Gulf-south USA	Biodiversity Data Journal 3: e6733	doi:10.3897/BDJ.3.e6733	United States
a Pastor de Ward C, Lo Russo V, Villares G, Milano V, Miyashiro L & Mazzanti R	Free-living marine nematodes from San Julián Bay [Santa Cruz, Argentina]	ZooKeys 489: 133-144	doi:10.3897/zookeys.489.7311	Argentina
a Pérez-Luque AJ, Sánchez-Rojas CP, Zamora R, Pérez-Pérez R & Bonet FJ	Dataset of Phenology of Mediterranean high-mountain meadows flora [Sierra Nevada, Spain]	PhytoKeys 46: 89-107	doi:10.3897/phytokeys.46.9116	Spain
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A faint, light-gray network graph serves as the background for the entire page. It consists of numerous small, semi-transparent gray dots connected by thin gray lines, forming a complex web of triangles and polygons. This graphic represents the global network of data partners mentioned in the text.

GBIF Secretariat
Universitetsparken 15
DK-2100 Copenhagen Ø
Denmark

tel +45 35 32 14 70
fax +45 35 32 14 80
email communication@gbif.org
web www.gbif.org