

IoZ Publications

Staff and students at ZSL's Institute of Zoology have contributed to a wide range of publications over the academic year from August 2015 to July 2016.

- Acosta-Jamett, G, Cleaveland, S, de C Bronsvoort, BM, Cunningham, AA, Bradshaw, H and Craig, PS (2015) *Echinococcus granulosus* infection in foxes in Coquimbo District, Chile. *Archivos de Medicina Veterinaria* **47**: 409–413.
- Amon, DJ, Copley, JT, Dahlgren, TG, Horton, T, Kemp, KM, Rogers, AD and Glover, AG (2015) Observations of fauna attending wood and bone deployments from two seamounts on the Southwest Indian Ridge. *Deep-Sea Research Part II: Topical Studies in Oceanography*. DOI: 10.1016/j.dsr2.2015.07.003
- Ballingall, KT, McIntyre, A, Lin, Z, Timmerman, N, Matthyssen, E, Lurz, PWW, Melville, L, Wallace, A, Meredith, AL, Romeo, C, Wauters, LA, Sainsbury, AW and McInnes, CJ (2016) Limited diversity associated with duplicated class II MHC-DRB genes in the red squirrel population in the United Kingdom compared with continental Europe. *Conservation Genetics* **17**: 1171–1182.
- Baniel, A, Cowlshaw, G and Huchard, E (2016) Stability and strength of male–female associations in a promiscuous primate society. *Behavioral Ecology and Sociobiology* **70**: 761–775.
- Barata, IM, Uhlig, VM, Silva, GH and Ferreira, GB (2016) Downscaling the gap: protected areas, scientific knowledge and the conservation of amphibian species in Minas Gerais, southeastern Brazil. *South American Journal of Herpetology* **11**: 34–45.
- Barlow, J, Cadotte, M, Newton, E, Pettorelli, N, Plane, A, Stephens, PA and Whittingham, MJ (2016) Achieving and communicating globally relevant applied ecological research. *Journal of Applied Ecology* **53**: 1–4.
- Ballard, C, Cassey, P and Blackburn, TM (2016) Alien species as a driver of recent extinctions. *Biology Letters* **12**(2): 20150623.
- Ballard, C, Leroy, B, Thuiller, W, Rysman, J-F and Courchamp, F (2016) Major drivers of invasion risks throughout the world. *Ecosphere* **7**(3): e01241.
- Bertulli, CG, Galatius, A, Kinze, CC, Rasmussen, MH, Deaville, R, Jepson, P, Vedder, EJ., Sánchez Contreras, GJ, Sabin, RC and Watson, A (2015) Vertebral column deformities in white-beaked dolphins from the eastern North Atlantic. *Diseases of Aquatic Organisms* **116**: 59–67.
- Blackburn, TM and Ewen, JG (2016) Parasites as drivers and passengers of human-mediated biological invasions. *EcoHealth*. DOI: 10.1007/s10393-015-1092-6
- Bland, LM and Böhm, M (2016) Overcoming data deficiency in reptiles. *Biological Conservation*. DOI: 10.1016/j.biocon.2016.05.018
- Bletz, MC, Rosa, GM, Andreone, F, Courtois, EA, Schmeller, DS, Rabibisoa, NHC, Rabemananjara, FCE, Raharivololoniaina, L, Vences, M, Weldon, C, Edmonds, D, Raxworthy, CJ, Harris, RN, Fischer, MC and Crottini, A (2015) Consistency of published results on the pathogen *Batrachochytrium dendrobatidis* in Madagascar: Formal Comment on Kolby et al. Rapid response to evaluate the presence of amphibian chytrid fungus (*Batrachochytrium dendrobatidis*) and ranavirus in wild amphibian populations in Madagascar. *PLoS One* **10**(10): e0135900.
- Bobadilla Suarez, M, Ewen, JG, Groombridge, JJ, Beckmann, K, Shotton, J, Masters, N, Hopkins, T and Sainsbury, AW (2015) Using qualitative disease risk analysis for herpetofauna conservation translocations transcending ecological and geographical barriers. *EcoHealth*. DOI: 10.1007/s10393-015-1086-4
- Böhm, M, Williams, R, Bramhall, HR, McMillan, KM, Davidson, AD, Garcia, A, Bland, LM, Bielby, J and Collen, B (2016) Correlates of extinction risk in squamate reptiles: the relative importance of biology, geography, threat and range size. *Global Ecology and Biogeography* **25**: 391–405.
- Brekke, P, Ewen, JG, Lucas, G and Santure, AW (2015) Determinants of male floating behaviour and floater reproduction in a threatened population of the hihī (*Notiomystis cincta*). *Evolutionary Applications* **8**: 796–806.
- Brierley, L, Vonhof, MJ, Olival, KJ, Daszak, P and Jones, KE (2016) Quantifying global drivers of zoonotic bat viruses: a process-based perspective. *The American Naturalist* **187**(2): E53–E64.
- Brown, MJF, Sainsbury, AW, Vaughan-Higgins, RJ, Measures, GH, Jones, CM and Gammans, N (2016) Bringing back a healthy buzz? Invertebrate parasites and reintroductions: a case study in bumblebees. *EcoHealth*. DOI: 10.1007/s10393-015-1093-5
- Bryant, JV, Olson, VA, Chatterjee, HJ and Turvey, ST (2015) Identifying environmental versus phylogenetic correlates of behavioural ecology in gibbons: implications for conservation management of the world's rarest ape. *BMC Evolutionary Biology* **15**: Art. 171.
- Burriss, RP, Troscianko, J, Lovell, PG, Fulford, AJC, Stevens, M, Quigley, R, Payne, J, Saxton, TK and Rowland, HM (2015) Changes in women's facial skin color over the ovulatory cycle are not detectable by the human visual system. *PLoS One* **10**(7): e0130093.
- Canessa, S, Converse, SJ, West, M, Clemann, N, Gillespie, G, McFadden, M, Silla, AJ, Parris, KM and McCarthy, MA (2016) Planning for ex situ conservation in the face of uncertainty. *Conservation Biology* **30**: 599–609.
- Canessa, S, Genta, P, Jesu, R, Lamagni, L, Oneto, F, Salvidio, S and Ottonello, D (2016) Challenges of monitoring reintroduction outcomes: insights from the conservation breeding program of an endangered turtle in Italy. *Biological Conservation*. DOI: 10.1016/j.biocon.2016.05.003
- Canessa, S, Guillera-Arroita, G, Lahoz-Monfort, JJ, Southwell, DM, Armstrong, DP, Chadès, I, Lacy, RC and Converse, SJ (2015) When do we need more data? A primer on calculating the value of information for applied ecologists. *Methods in Ecology and Evolution* **6**: 1219–1228.
- Carter, AJ, Ticó, MT and Cowlshaw, G (2016) Sequential phenotypic constraints on social information use in wild baboons. *eLife* **5**: e13125.
- Carvalho, J, Granados, JE, López-Olvera, JR, Cano-Manuel, FJ, Pérez, JM, Fandos, P, Soriguer, RC, Velarde, R, Fonseca, C, Ráez, A, Espinosa, J, Pettorelli, N and Serrano, E (2015) Sarcocystis mangle

- breaks up bottom-up regulation of body condition in a large herbivore population. *Parasites and Vectors* **8**: Art. 572.
- Carvalho, J, Serrano, E, Pettorelli, N, Granados, JE, Habela, MA, Olmeda, S, Fonseca, C and Pérez, JM (2016) *Sarcoptes scabiei* infestation does not alter the stability of ectoparasite communities. *Parasites and Vectors* **9**: Art. 379.
- Chaber, A-L and Cunningham, A (2015) Public health risks from illegally imported African bushmeat and smoked fish. *EcoHealth* **13**: 135–138.
- Clare, F, Daniel, O, Garner, T and Fisher, M (2016) Assessing the ability of swab data to determine the true burden of infection for the amphibian pathogen *Batrachochytrium dendrobatidis*. *EcoHealth* **13**: 360–367.
- Collins, MB and Mitchard, ETA (2015) Integrated radar and lidar analysis reveals extensive loss of remaining intact forest on Sumatra 2007–2010. *Biogeosciences* **12**: 6637–6653.
- Connolly, M, Thomas, P, Woodroffe, R and Raphael, BL (2015) Single- versus double-dose rabies vaccination in captive African wild dogs (*Lycaon pictus*). *Journal of Zoo and Wildlife Medicine* **46**: 691–698.
- Correia, DLP, Chauvenet, ALM, Rowcliffe, JM and Ewen, JG (2015) Targeted management buffers negative impacts of climate change on the hihi, a threatened New Zealand passerine. *Biological Conservation* **192**: 145–153.
- Crees, JJ, Carbone, C, Sommer, RS, Benecke, N and Turvey, ST (2016) Millennial-scale faunal record reveals differential resilience of European large mammals to human impacts across the Holocene. *Proceedings of the Royal Society of London B – Biological Sciences* **283**: 201521529.
- Crees, JJ, Collins, AC, Stephenson, PJ, Meredith, HMR, Young, RP, Howe, C, Price, MRS and Turvey, ST (2016) A comparative approach to assess drivers of success in mammalian conservation recovery programs. *Conservation Biology* **30**: 694–705.
- Cunningham, AA, Beckmann, K, Perkins, M, Fitzpatrick, L, Cromie, R, Redbond, J, O'Brien, MF, Ghosh, P, Shelton, J and Fisher, MC (2015) Emerging disease in UK amphibians. *Veterinary Record* **176**(18): 468.
- Cunningham, AA, Turvey, ST, Zhou, F, Meredith, HMR, Guan, W, Liu, X, Sun, C, Wang, Z and Wu, M (2016) Development of the Chinese giant salamander *Andrias davidianus* farming industry in Shaanxi Province, China: conservation threats and opportunities. *Oryx* **50**: 265–273.
- Curtis, RJ, Brereton, TM, Dennis, RLH, Carbone, C and Isaac, NJB (2015) Butterfly abundance is determined by food availability and is mediated by species traits. *Journal of Applied Ecology* **52**: 1676–1684.
- Dean, B, Kirk, H, Fayet, A, Shoji, A, Freeman, R, Leonard, K, Perrins, CM and Guilford, T (2015) Simultaneous multi-colony tracking of a pelagic seabird reveals cross-colony utilization of a shared foraging area. *Marine Ecology: Progress Series* **538**: 239–248.
- Di Fonzo, MMI, Collen, B, Chauvenet, ALM and Mace, GM (2016) Patterns of mammalian population decline inform conservation action. *Journal of Applied Ecology* **53**: 1046–1054.
- Donnelly, CA and Woodroffe, R (2015) Bovine tuberculosis: badger-cull targets unlikely to reduce TB. *Nature* **526**: 640.
- Duncan, C, Nilsen, EB, Linnell, JDC and Pettorelli, N (2015) Life-history attributes and resource dynamics determine intraspecific home-range sizes in Carnivora. *Remote Sensing in Ecology and Conservation* **1**: 39–50.
- Duncan, C, Thompson, JR and Pettorelli, N (2015) The quest for a mechanistic understanding of biodiversity-ecosystem services relationships. *Proceedings of the Royal Society of London B – Biological Sciences* **282**: 20151348.
- zu Ermgassen, EKJ, Durrant, C, John, S, Gardiner, R, Alrefaei, AF, Cunningham, AA and Lawson, B (2016) Detection of the European epidemic strain of *Trichomonas gallinae* in finches, but not other non-columbiformes, in the absence of macroscopic disease. *Parasitology* **143**: 1294–1300.
- Esteban, R, Verborgh, P, Gauffier, P, Giménez, J, Martín, V, Pérez-Gil, M, Tejedor, M, Almunia, J, Jepson, PD, García-Tiscar, S, Barrett-Lennard, LG, Guinet, C, Foote, AD and De Stephanis, R (2016) Using a multi-disciplinary approach to identify a critically endangered killer whale management unit. *Ecological Indicators* **66**: 291–300.
- Farrell, M, Rando, C and Garrod, B (2015) Lessons from the past: Metabolic bone disease in historical captive primates. *International Journal of Primatology* **36**: 398–411.
- Fayet, AL, Freeman, R, Shoji, A, Padgett, O, Perrins, CM and Guilford, T (2015) Lower foraging efficiency in immatures drives spatial segregation with breeding adults in a long-lived pelagic seabird. *Animal Behaviour* **110**: 79–89.
- Fernández-Beaskoetxea, S, Bosch, J and Bielby, J (2016) Infection and transmission heterogeneity of a multi-host pathogen (*Batrachochytrium dendrobatidis*) within an amphibian community. *Diseases of Aquatic Organisms* **118**: 11–20.
- Fitzpatrick, L, Jaffe, J, Sainsbury, AW and Carter, I (2016) Disease risk analysis and post-release health surveillance in wildlife translocations. *Bulletin of the Chartered Institute of Ecology and Environmental Management* **91**: 15–16.
- Ford, AT, Goheen, JR, Augustine, DJ, Kinnaird, MF, O'Brien, TG, Palmer, TM, Pringle, RM and Woodroffe, R (2015) Recovery of African wild dogs suppresses prey but does not trigger a trophic cascade. *Ecology* **96**: 2705–2714.
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- Fournié, G, Goodman, SJ, Cruz, M, Cedeño, V, Vélez, A, Patiño, L, Millins, C, Gibbons, LM, Fox, MT and Cunningham, AA (2015) Biogeography of parasitic nematode communities in the Galápagos giant tortoise: implications for conservation management. *PLoS One* **10**(9): e0135684.
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- Hardman, CJ, Harrison, DP, Shaw, PJ, Nevard, TD, Hughes, B, Potts, SG and Norris, K (2015) Supporting local diversity of habitats and species on farmland: a comparison of three wildlife-friendly schemes. *Journal of Applied Ecology* **53**: 171–180.
- Hardman, CJ, Norris, K, Nevard, TD, Hughes, B and Potts, SG (2016) Delivery of floral resources and pollination services on farmland under three different wildlife-friendly schemes. *Agriculture, Ecosystems and Environment* **220**: 142–151.
- Harrison, XA (2015) A comparison of observation-level random effect and Beta-Binomial models for modelling overdispersion in Binomial data in ecology and evolution. *PeerJ* **3**: e1114.
- Hartley, M and Sainsbury, A (2016) Methods of disease risk analysis in wildlife translocations for conservation purposes. *EcoHealth*. DOI: 10.1007/s10393-016-1134-8

- Hayman, DTS and Peel, AJ (2016) Can survival analyses detect hunting pressure in a highly connected species? Lessons from straw-coloured fruit bats. *Biological Conservation* **200**: 131–139.
- He, KS, Bradley, BA, Cord, AF, Rocchini, D, Tuanmu, M-N, Schmidlein, S, Turner, W, Wegmann, M and Pettorelli, N (2015) Will remote sensing shape the next generation of species distribution models? *Remote Sensing in Ecology and Conservation* **1**: 4–18.
- Heard, GW, Canessa, S and Parris, KM (2015) Interspecific variation in the phenology of advertisement calling in a temperate Australian frog community. *Ecology and Evolution* **5**: 3927–3938.
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