

| <b>Peer-Reviewed Articles (students in bold)</b> |   |
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| 81   | Humphries, M.M., K.S. McCann. 2014. Metabolic ecology. <i>Journal of Animal Ecology</i> 83:7-19   |
| 80   | Hill, R.W., T.E. Muhich, M.M. Humphries. 2013. City scale expansion of the costs of human thermoregulation. <i>PLoS ONE</i> 8(10): e76238. doi:10.1371/journal.pone.0076238   |
| 79   | Boutin, S., A.G. McAdam, M.M. Humphries. 2013. Anticipatory reproduction in squirrels can succeed in the absence of extra food. <i>New Zealand Journal of Zoology</i> 40: 337-339   |
| 78   | <b>Fletcher, Q.E.</b> , M. Landry-Cuerrier, S. Boutin, A.G. McAdam, J.R. Speakman, M.M. Humphries. 2013. Reproductive timing and reliance on hoarded capital resources by lactating red squirrels. <i>Oecologia</i> 173: 1203-1215  |
| 77   | LaMontagne, J.M., C. T. Williams, J.L. Donald, M.M. Humphries, A.G. McAdam, S. Boutin. 2013. Linking intraspecific variation in territory size, cone supply, and survival of North American red squirrels. <i>Journal of Mammalogy</i> 94:1048-1058                             |
| 76   | <b>Archibald, D.W.</b> , Q.E. Fletcher, S. Boutin, A.G. McAdam, J.R. Speakman, M.M. Humphries. 2013. Sex-specific hoarding behavior in North American Red Squirrels ( <i>Tamiasciurus hudsonicus</i> ). <i>Journal of Mammalogy</i> 94:761-770                                  |
| 75   | Boyles, J.G., <b>A.B. Thompson</b> , A.E. McKechnie, E. Malan, M.M. Humphries, <b>V. Careau</b> . 2013. A global heterothermic continuum in mammals. <i>Global Ecology and Biogeography</i> 22:1029-1039  |
| 74   | Dantzer, B., A.E.M. Newman, R. Boonstra, R. Palme, S. Boutin, M.M. Humphries, A.G. McAdam. 2013. Density triggers maternal hormones that increase adaptive offspring growth in a wild mammal. <i>Science</i> 340: 1215-1217   |
| 73   | <b>Thompson, A.B.</b> , P.-O. Montiglio, M.M. Humphries. 2013. Behavioural impacts of torpor expression: a transient effect in captive eastern chipmunks ( <i>Tamias striatus</i> ). <i>Physiology &amp; Behavior</i> 110:115-121   |
| 72   | Bergeron, P, P.-O. Montiglio, D. Reale, M.M. Humphries, O. Gimenez, D. Garant. 2013. Disruptive viability selection on adult exploratory behavior in eastern chipmunks. <i>Journal of Evolutionary Biology</i> 26:766-774   |
| 71   | Williams, C.T., J.C. Gorrell, J.E. Lane, A.G. McAdam, M.M. Humphries, S. Boutin. 2013. Communal nesting in an 'asocial' mammal: social thermoregulation among spatially dispersed kin. <i>Behavioral Ecology and Sociobiology</i> 67:757-763                                    |
| 70   | <b>Fletcher, Q.E.</b> , C. Selman, S. Boutin, A.G. McAdam, <b>S. Woods</b> , A. Seo, C. Leeuwenburgh, R. Sinclair, J.R. Speakman, M.M. Humphries. 2013. Elevated oxidative stress is an energetic cost of reproduction in a free-ranging mammal. <i>Evolution</i> 67: 1527-1536 |
| 69   | <b>Careau, V.</b> , D. Réale, D. Garant, F. Pelletier, J.R. Speakman, M.M. Humphries. 2013. Context-dependent correlation between resting metabolic rate and daily energy expenditure in wild chipmunks. <i>Journal of Experimental Biology</i> 216:418-426                     |
| 68   | <b>Careau, V.</b> , P. Bergeron, D. Garant, D. Réale, J. Speakman, M.M. Humphries. 2013. The energetic and survival costs of growth in free-ranging chipmunks. <i>Oecologia</i> 171:11-23   |
| 67   | <b>Samson, J.</b> , D. Berteaux, B.J. McGill, M.M. Humphries. 2012. Demographic amplification of climate change experienced by the contiguous United States population during the 20th century. <i>PLoS ONE</i> 7(10)+B77:e45683  |
| 66   | Bergeron, P. P.-O. Montiglio, D. Réale, M.M. Humphries, D. Garant. 2012. Bateman gradients in a promiscuous mating system. <i>Behavioral Ecology and Sociobiology</i> 66:1125-1130  |
| 65   | Shonfield, J., R.W. Taylor, S. Boutin, M.M. Humphries, A.G. McAdam. 2012. Territorial defence behaviour in red squirrels is influenced by local density. <i>Behaviour</i> 149:369-390.  |
| 64   | Dantzer, B., S. Boutin, M.M. Humphries, A.G. McAdam. 2012. Behavioral responses of territorial red squirrels to natural and experimental variation in population density.   |

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|    | <b><i>Behavioral Ecology and Sociobiology</i> 66:865-878</b>  |
| 63 | <b>Fletcher, Q.E.</b> , J.R. Speakman, S. Boutin, A.G. McAdam, S.B. Woods, M.M. Humphries. 2012. Seasonal stage differences overwhelm environmental and individual factors as determinants of energy expenditure in free-ranging red squirrels. <b><i>Functional Ecology</i> 26:677-687.</b>  |
| 62 | <b>Marcoux, M.</b> , M. Auger-Méthé, M.M. Humphries. 2012. Variability and context-specificity of narwhal ( <i>Monodon monoceros</i> ) whistles and pulsed calls. <b><i>Marine Mammal Science</i> 28:649-665</b>  |
| 61 | <b>Careau, V.</b> , D. Garant, & M.M. Humphries. 2012. Free-ranging eastern chipmunks infected with bot fly larvae have higher resting but lower maximum metabolism. <b><i>Canadian Journal of Zoology</i> 90:413-421</b>   |
| 60 | <b>Archibald, D.W.</b> , A.G. McAdam, S. Boutin, Q.E. Fletcher, M.M. Humphries. 2012. Within-season synchrony of a masting conifer enhances seed escape. <b><i>American Naturalist</i> 179: 536-544</b>   |
| 59 | Taylor, R.W., A.K. Boon, D. Réale, M.M. Humphries, S. Boutin, J.C. Gorrell, D.W. Coltman, A.G. McAdam. 2012. Low heritabilities, but genetic and maternal correlations between red squirrel behaviours. <b><i>Journal of Evolutionary Biology</i> 25:614-624.</b>   |
| 58 | <b>Careau V.</b> , D. Réale, D. Garant, J.R. Speakman. 2012. Stress-induced hyperthermia is repeatable and positively correlated to ambient temperature, body mass and energy expenditure in <i>Tamias striatus</i> . <b><i>Journal of Comparative Physiology</i> 182:403-414.</b>  |
| 57 | <b>Jensen, P.G.</b> , C. Demers, S. McNulty, W. Jakubas, M.M. Humphries. 2012. Responses of marten and fisher to fluctuations in prey populations and mast crops in northern hardwood forest. <b><i>Journal of Wildlife Management</i> 76:489–502.</b>  |
| 56 | Bergeron, P., D. Réale, M.M. Humphries, D. Garant. 2011. Anticipation and response to fluctuating pulsed resources drive population dynamics in eastern chipmunks. <b><i>Ecology</i> 92:2027–2034.</b>  |
| 55 | Humphries, M.M, <b>V. Careau</b> . 2011. Heat for nothing or activity for free? Evidence and implications of activity substitution for thermoregulation. <b><i>Integrative and Comparative Biology</i> 51:419-431.</b>  |
| 54 | Bergeron, P., <b>V. Careau</b> , M.M. Humphries, D. Réale, J.R. Speakman, D. Garant. 2011. The energetic and oxidative costs of reproduction in a free-ranging rodent. <b><i>Functional Ecology</i> 25:1063-1071.</b>   |
| 53 | <b>Marcoux, M.</b> , M. Auger-Méthé, E. Chmelnitsky, S.H. Ferguson, M.M. Humphries. 2011. Local passive acoustic monitoring of narwhals in the Canadian Arctic. <b><i>Arctic</i> 64: 307-316.</b>   |
| 52 | Bergeron, P., D. Réale, M.M. Humphries, D.I. Garant. 2011. Evidence of multiple paternity and mate selection for inbreeding avoidance in wild eastern chipmunks. <b><i>Journal of Evolutionary Biology</i> 24:1685–1694.</b>  |
| 51 | Dantzer, B., A.G. McAdam, R. Palme, M.M. Humphries, S. Boutin, R. Boonstra. 2011. Maternal androgens and behaviour in free-ranging North American red squirrels. <b><i>Animal Behaviour</i> 81:469-479.</b>   |
| 50 | <b>Samson, J.</b> , D. Berteaux, B.J. McGill, M.M. Humphries. 2011. Geographic disparities and moral hazards in the predicted impacts of climate change on human populations. <b><i>Global Ecology and Biogeography</i> 20:532-544.</b>   |
| 49 | McFarlane, S.E., J.E. Lane, R.W. Taylor, J.C. Gorrell, D.W. Coltman, M.M. Humphries, S. Boutin, A.G. McAdam. 2011. The heritability of multiple male mating in a promiscuous mammal. <b><i>Biology Letters</i> 7: 368-371.</b>  |
| 48 | Berteaux, D., S. de Blois, J.-F. Angers, N. Casajus, M. Darveau, F. Fournier, M.M. Humphries, B. McGill, J. Larivée, T. Logan, P. Nantel, C. Périé, F. Poisson, D. Rodrigue, S. Rouleau, R. Siron, W. Thuiller, L. Vescovi. 2010. From global change to regional conservation: effects of climate change on Quebec biodiversity. <b><i>Diversity</i> 2: 1181-1204</b> |

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| 47 | <b>Milligan, H.E.,</b> M.M. Humphries. 2010. The importance of aquatic vegetation in beaver diets and the seasonal and habitat specificity of aquatic-terrestrial ecosystem linkages in a subarctic environment. <i>Oikos</i> 119: 1877–1886.  |
| 46 | Réale, D., D. Garant, M.M. Humphries, P. Bergeron, <b>V. Careau,</b> P.O. Montiglio, D.W. Thomas. 2010. Personality and the emergence of a pace-of-life syndrome at the level of the population. <i>Phil. Trans. R. Soc. B</i> 365:4051-4063   |
| 45 | <b>Milligan, H.E., T.D. Pretzlaw,</b> M.M. Humphries. 2010. Stable isotope differentiation of freshwater and terrestrial plants in two subarctic regions. <i>Ecoscience</i> 17:265-275   |
| 44 | <b>Fletcher, Q.E.,</b> S. Boutin, J.E. Lane, J.M. LaMontagne, A.G. McAdam, C.J. Krebs, M.M. Humphries. 2010. The functional response of a hoarding seed predator to mast seeding. <i>Ecology</i> 91:2673–2683.   |
| 43 | <b>Marcoux, M., G. Larocque,</b> M. Auger-Méthé, P. Dutilleul, M.M. Humphries. 2010. Statistical analysis of animal observations and marks distributed in time using Ripley functions. <i>Animal Behaviour</i> 80: 329-337.  |
| 42 | Dantzer, B., R. Palme, <b>Q.E. Fletcher,</b> A.G. McAdam, S. Boutin, M.M. Humphries, R. Boonstra. 2010. Fecal cortisol metabolite levels in free-ranging North American red squirrels: assay validation and the effects of reproductive condition. <i>General and Comparative Endocrinology</i> 167:279-86 |
| 41 | Gorrell, J.C., A.G. McAdam, D.W. Coltman, M.M. Humphries, S. Boutin. 2010. Adopting kin enhances inclusive fitness in asocial red squirrels. <i>Nature Communications</i> 1:22. doi: 10.1038/ncomms1022  |
| 40 | <b>Careau, V.,</b> D. Réale, M.M. Humphries, D.W. Thomas. 2010. The pace of life under artificial selection: personality, energy expenditure, and longevity are correlated in domestic dogs. <i>American Naturalist</i> 175:753–758  |
| 39 | <b>Larivee, M.L.,</b> S. Boutin, J.R. Speakman, M.M. Humphries. 2010. Associations between overwinter survival and resting metabolic rate in juvenile North American red squirrels ( <i>Tamiasciurus hudsonicus</i> ). <i>Functional Ecology</i> 24: 597 - 607.  |
| 38 | <b>Careau, V.,</b> D.W. Thomas, M.M. Humphries. 2010. Energetic cost of bot fly parasitism in free-ranging eastern chipmunks. <i>Oecologia</i> 162:303-12  |
| 37 | <b>Sherriff, M.,</b> JR. Speakman, L. Kuchel, S. Boutin, M.M. Humphries. 2009. The cold shoulder: free-ranging snowshoe hares maintain a low cost of living in cold climates. <i>Canadian Journal of Zoology</i> 87:956–964  |
| 36 | <b>Marcoux, M.,</b> M. Auger-Méthé, M.M. Humphries. 2009. Encounter frequencies and grouping patterns of narwhals in Koluktoo Bay, Baffin Island. <i>Polar Biology</i> 32:1705-1716  |
| 35 | Lane, J., S. Boutin, J.R. Speakman, M.M. Humphries. 2009. Energetic costs of male reproduction in a scramble competition mating system. <i>Journal of Animal Ecology</i> 79:27-34.   |
| 34 | <b>Ostertag S.K.,</b> B.A. Tague, M.M. Humphries, S.A. Tittlemier, H.M. Chan. 2009. Estimated dietary exposure to fluorinated compounds from traditional foods among Inuit in Nunavut, Canada. <i>Chemosphere</i> 75:1165-1172.  |
| 33 | <b>Guillemette, C.U., Q.E. Fletcher,</b> S. Boutin, R.M. Hodges, A.G. McAdam, M.M. Humphries. 2009. Lactating red squirrels experiencing high heat load occupy less insulated nests. <i>Biology Letters</i> 5:166-168.   |
| 32 | Sheriff, M.J., L. Kuchel, S. Boutin, M.M. Humphries. 2009. Seasonal metabolic acclimatization in a northern population of free-ranging snowshoe hares, <i>Lepus americanus</i> . <i>Journal of Mammalogy</i> 90:761-767.   |
| 31 | <b>Jarema, S.I., J. Samson,</b> B.J. McGill, M.M. Humphries. 2009. Variation in abundance across a species' range predicts climate change responses in the range interior will exceed those at the edge: a case study with North American beaver. <i>Global Change Biology</i> 15:508-522.                 |

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| 30 | <b>Careau, V.</b> , O. Bininda-Emonds, D.W. Thomas, D. Réale, M.M. Humphries. 2009. Exploration strategies map along fast-slow metabolic and life-history continuums in muroid rodents. <b>Functional Ecology</b> 23:150-156.   |
| 29 | <b>Landry-Cuerrier, M.</b> , D. Munro, D.W. Thomas, M.M. Humphries. 2008. Climate and resource determinants of the fundamental and realized metabolic niches of hibernating chipmunks. <b>Ecology</b> 89:3306-3316.   |
| 28 | <b>Kinghorn, A.</b> , M.M. Humphries, P. Outridge, H.M. Chan. 2008. Teeth as biomonitors of selenium concentrations in tissues of beluga whales ( <i>Delphinapterus leucas</i> ). <b>Environmental Toxicology and Chemistry</b> 402:43-50.  |
| 27 | <b>Careau, V.</b> , D.W. Thomas, M.M. Humphries, D. Reale. 2008. Energy metabolism and animal personality. <b>Oikos</b> 117:641-653.  |
| 26 | Munro, D., D.W. Thomas, M.M. Humphries. 2008. Extreme suppression of above-ground activity by a food-storing hibernator, the eastern chipmunk ( <i>Tamias striatus</i> ). <b>Canadian Journal of Zoology</b> 86:364-370.  |
| 25 | Hall, C.L., M.M. Humphries, D.L. Kramer. 2007. Resource tracking by eastern chipmunks: the sampling of renewing patches. <b>Canadian Journal of Zoology</b> 85:536-548.   |
| 24 | McAdam, A.G., S. Boutin, A. Sykes, M.M. Humphries. 2007. Life histories of female red squirrels and their contribution to population growth. <b>Ecoscience</b> 14:362-369.  |
| 23 | <b>Kerr, T.D.</b> , S. Boutin, J.M. LaMontagne, A.G. McAdam, and M.M. Humphries. 2007. Persistent maternal effects on juvenile survival in North American red squirrels. <b>Biology Letters</b> 3:289-291.  |
| 22 | <b>Kinghorn A.</b> , M.M. Humphries, L.H.M. Chan, P. Outridge. 2006. Reconstructing historical mercury exposure from beluga whale consumption among Inuit in the Mackenzie Delta. <b>Journal of Ethnobiology</b> 26:310-326.  |
| 21 | Boutin, S., L.A. Wauters, A.G. McAdam, M.M. Humphries, G. Tosi, A.A. Dhondt. 2006. Anticipatory reproduction and population growth in seed predators. <b>Science</b> 314:1928-1930.   |
| 20 | Berteaux D., M.M. Humphries, C.J. Krebs, M. Lima, A.G. McAdam, N. Pettorelli, D. Réale, T. Saitoh, E. Tkadlec, R.B. Weladji, N.C. Stenseth. 2006. Constraints to predicting the effects of climate change on mammals. <b>Climate Research</b> 32:151-158.   |
| 19 | <b>Pretzlaw, T., C. Trudeau</b> , M.M. Humphries, J.M. LaMontagne, S. Boutin. 2006. Red squirrel ( <i>Tamiasciurus hudsonicus</i> ) feeding on spruce bark beetles ( <i>Dendroctonus rufipennis</i> ) in the Canadian boreal forest: energetic and ecological implications. <b>Journal of Mammalogy</b> 87:909-914. |
| 18 | Humphries, M.M., S. Boutin, D.W. Thomas, J.D. Ryan, C. Selman, A.G. McAdam, D. Berteaux, J.R. Speakman. 2005. Expenditure freeze: the metabolic response of small mammals to cold environments. <b>Ecology Letters</b> 8:1326-1333.   |
| 17 | Munro, D, D.W. Thomas, M.M. Humphries. 2005. Torpor patterns of hibernating eastern chipmunks ( <i>Tamias striatus</i> ) vary in response to the size and fatty acid composition of food hoards. <b>Journal of Animal Ecology</b> 74:692-700.   |
| 16 | Humphries, M.M., J. Umbanhowar, K.S. McCann. 2004. Bioenergetic prediction of climate change impacts on northern mammals. <b>Integrative and Comparative Biology</b> 44:152-162.  |
| 15 | Humphries, M.M., D.W. Thomas, D.L. Kramer. 2003. The role of energy availability in mammalian hibernation: a cost-benefit approach. <b>Physiological &amp; Biochemical Zoology</b> 76:165-179.  |
| 14 | Humphries, M.M., D.L. Kramer, D.W. Thomas. 2003. The role of energy availability in mammalian hibernation: an experimental test in free-ranging eastern chipmunks. <b>Physiological &amp; Biochemical Zoology</b> 76:180-186.   |
| 13 | Humphries, M.M., D.W. Thomas, J.R. Speakman. 2002. Climate-mediated energetic   |

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|   | constraints on the distribution of hibernating mammals. <i>Nature</i> 418:313-316.   |
| 12  | Humphries, M.M., D.W. Thomas, C.L. Hall, J.R. Speakman, D.L. Kramer. 2002. The energetics of autumn mast hoarding in eastern chipmunks. <i>Oecologia</i> 133:30-37.  |
| 11  | Humphries, M.M., D.W. Thomas, D.L. Kramer. 2001. Torpor and digestion in food-storing hibernators. <i>Physiological &amp; Biochemical Zoology</i> 74:283-292.  |
| 10  | MacArthur, R.A., M.M. Humphries, K.L. Campbell, G.A. Fines. 2001. Body oxygen stores, aerobic dive limits, and the diving abilities of juvenile and adult muskrats. <i>Physiological &amp; Biochemical Zoology</i> 74:178-190.   |
| 9   | Humphries, M.M., S. Boutin. 2000. The determinants of optimal offspring number in free-ranging red squirrels. <i>Ecology</i> 81:2867-2877.   |
| 8   | Humphries, M.M., S. Boutin. 1999. Mass-dependent reproduction or reproduction-dependent mass? A comment on body mass and first-time reproduction in female sciurids. <i>Canadian Journal of Zoology</i> 77:171-173.  |
| 7   | MacArthur, R.A., M.M. Humphries. 1999. Postnatal development of thermoregulation in the semiaquatic muskrat ( <i>Ondatra zibethicus</i> ). <i>Canadian Journal of Zoology</i> 77:1521-1529.  |
| 6   | MacArthur, R.A., M.M. Humphries, D. Jeske. 1997. Huddling behavior and the foraging efficiency of muskrats. <i>Journal of Mammalogy</i> 78:850-858.  |
| 5   | Humphries, M.M., S. Boutin. 1996. Reproductive demands and mass gains: a paradox in female red squirrels ( <i>Tamiasciurus hudsonicus</i> ). <i>Journal of Animal Ecology</i> 65:332-338.  |
| <b>Peer-Reviewed Book Chapters (students in bold)</b> |  |
| 4   | Humphries, M.M., J. Umbanhowar. 2007. Filtering environmental variability: activity optimization, thermal refuges, and the energetic responses of endotherms to temperature. In <i>The Impact of Environmental Variability on Ecological Systems: The Peter Yodzis Fundamental Ecology Series. Vol. 2.</i> D. Vasseur, K.S. McCann (eds.). Springer, Dordecht.   |
| 3   | McCann, K., J. Umbanhowar, M.M. Humphries, J.S. Rasmussen. 2006. Role of space, time, and variability in food web dynamics. In <i>Dynamic Food Webs: Multispecies Assemblages, Ecosystem Development, and Environmental Change – A Volume of Theoretical Ecology.</i> P.C. de Ruiter, V. Wolters, J.C. Moore (eds.). Elsevier Inc.   |
| 2   | Humphries, M.M., D.W. Thomas, J.R. Speakman. 2005. Temperature, hibernation energetics, and the cave and continental distributions of little brown bats. In <i>Functional and Evolutionary Ecology of Bats</i> (eds. Zubaid, A., G.F. McCracken and T.H. Kunz). Oxford Press, Oxford.  |
| 1   | Humphries, M.M., <b>B. Rodgers</b> . 2004. The energetic state-dependency of autumn immergence in eastern chipmunks. In <i>Life in the Cold: Evolution, Mechanisms, Adaptation, and Application. Twelfth International Hibernation Symposium. Institute of Arctic Biology, University of Alaska Fairbanks, Alaska, USA.</i>  |
| <b>Other Contributions</b>                            |  |
| 4   | Wojciechowski, M., M.M. Humphries, <b>V. Careau</b> , B. Pinshow. 2011. Environment, energetics and fitness: a symposium honoring Donald W. Thomas. Introduction to the symposium. <i>Integrative and Comparative Biology</i> 51:333-336.  |
| 3   | Wolfe, B.B., M.M. Humphries, M.J. Pisaric, A.M. Balasubramaniam, C.R. Burn, L. Chan, D. Cooley, D.G. Froese, S. Graupe, R.I. Hall, T. Lantz, T.J. Porter, P. Roy-Leveillee, K.W. Turner, S.D. Wesche, M. Williams. 2011. Environmental change and traditional use of the Old Crow Flats in northern Canada: an IPY opportunity to meet the challenges of the new northern research paradigm. <i>Arctic</i> 64:127-135. |
| 2   | Humphries MM. 2010. Endotherm metabolism too hot to handle. <i>Journal of Experimental Biology</i> 213(21):IV. doi: 10.1242/jeb.051300   |
| 1   | Humphries MM. 2009. Mammal ecology as an indicator of climate change. In <i>Climate</i>  |

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