



Scaling Up Camera Trap Surveys to Inform Regional Wildlife Conservation

Presenter List, as of March 4th, 2020

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ORAL PRESENTATIONS

Ian Adams, Larix Ecological Consulting. *Use of 3G motion camera to monitor an active Flammulated Owl nest near a mineral exploration drilling site*

Co-Authors: Jeff Berdusco, Moose Mountain Technical Services; Richard Klafki, Klafki Consulting

Jorje Ahumada, Wildlife Insights, Moore Centre for Science and Conservation International. *Opening keynote, talk title TBD*

Meghan Beale, Golder Associates Ltd. *Using remote cameras to assess spatial patterns of mammalian habitat use in the elk valley*

Co-Authors: Kyle Knopff, Golder Associates Ltd.; Alliah Adams Knopff, Talus Environmental Consulting Inc.; Lanny Amos, Teck Coal Limited

Stephan Boraks, 2151068 Alberta Ltd. *Integrating monitoring tools to plan for human-wildlife coexistence near Canmore, Alberta*

Stan Boutin, University of Alberta, Alberta Biomonitoring Institute (ABMI). *Estimating Animal Density from Camera Trap Data Through Large-Scale Regional Monitoring*

Co-Authors: S. White, ABMI, InnoTech Alberta; D. Huggard, ABMI; R. Serrouya, ABMI; M. Becker, ABMI

Cole Burton, Canada Research Chair in Terrestrial Mammal Conservation, University of British Columbia. *Scaling up insights from camera trapping in western Canada with the WildCAM network*

Wendel Challenger, LGL Limited Environmental Research Associates. *Models and monitoring: using camera trap data to assess long-term trends in wildlife populations*

Co-Authors: Virgil Hawkes, LGL Limited Environmental Research Associates

Devin Chen, University of Calgary. *A new viewpoint: investigating the use of arboreal camera traps in Madagascar to assess lemur occupancy*

Co-Authors: Pamela Narváez-Torres, University of Calgary; Olivia Tiafinjaka, University of Mahajanga, Ed Louis, Jr., Madagascar Biodiversity Partnership, Omaha's Henry Doorly Zoo & Aquarium; Steig Johnson, University of Calgary

Emily Chow, Ministry of Forests Lands and Natural Resource Operations and Rural Development. *Kootenay remote camera wildlife monitoring project*

Corinna Copp, Alberta Biomonitoring Institute. *WildTrax, a Tool to Standardize and Maximize the Utility of Environmental Sensor Monitoring Data*

Co-Authors: Monica Kohler, Alberta Biodiversity Monitoring Institute (ABMI); Alex MacPhail, ABMI; Erin Bayne, University of Alberta, ABMI; Tara Narwani, ABMI

Alexia Constantinou, University of British Columbia (UBC). *Mammal Responses to a Gradient of Forest Harvesting Treatments Across Interior BC*

Co-Authors: Cole Burton, UBC; Suzanne Simard, Belowground Ecology Group, UBC; Dexter Hodder, John Prince Research Forest, c/o Chuzghun Resources Corporation

Kim Dawe, Quest University Canada. *Monitoring dynamics of mammal intensity of use in outdoor recreation hot spots in the Sea to Sky Corridor*

Melanie Dickie, University of British Columbia – Okanagan (UBCO), Alberta Biomonitoring Institute. *Disentangling the relative influence of climate and landscape alteration in facilitating deer expansion in the boreal*

Co-Authors: Rob Serroya, ABMI; Craig DeMars, ABMI; Stan Boutin, University of Alberta; Adam Ford, UBCO

Jason Fisher, University of Victoria. *The Changing Face of Mammal Communities on the East Slopes of the Rocky Mountains*

Virgil Hawkes, LGL Limited. *Using camera traps to assess wildlife occurrence and distribution in Alberta's oil sands region*

Pamela Hengeveld, Synergy Applied Ecology. *Statistical analysis of site use patterns derived from camera trap detections and traffic counter data in a 10-year Before-After-Impact-Control study design*

Co-Authors: J. Clint Cubberley, Synergy Applied Ecology

Nicole Kahal, Miistakis Institute & **Lynette Hiebert**, City of Calgary Parks. *Urban wildlife monitoring: Calgary Captured challenges Calgaryans to better understand their wild Neighbors*

Roland Kays, North Carolina State University, North Carolina Museum of Natural Sciences. *Evening Keynote title tbd*

Amanda MacDonald, Alberta Conservation Association. *Evaluating the effectiveness of fence modifications to create permeable fences for pronghorn*

Co-Authors: Paul Jones, Alberta Conservation Association; Andrew Jakes, National Wildlife Federation; Daniel Eacker, University of Montana; Brian Martin, The Nature Conservancy; Mark Hebblewhite, University of Montana

Solene Marion, University of St Andrews. *Impacts of outdoor recreation on deer space-use and behaviour in a Scottish upland landscape*

Robin Naidoo, World Wildlife Foundation – US, University of British Columbia (UBC). *Relative effects of recreational and environmental factors on wildlife in the South Chilcotin mountains*

Co-Authors: Cole Burton, UBC

Pamela Narváez-Torres, University of Calgary. *Are arboreal camera traps better than line-transects for documenting lemur diversity?*

Co-Authors: Devin Chen, University of Calgary; Sheila Holmes, Swedish University of Agricultural Sciences; Olivia Tiafinjaka, Université de Mahajanga; Ed Louis Jr., Omaha's Henry Doorly Zoo & Aquarium; Steig Johnson, University of Calgary

Jesse Patterson, Ministry of Environment and Climate Change Strategy. *Wildlife camera data standards and access in the Province of BC – integrating data across projects and jurisdictions*

Lucy Perera-Romero, Washington State University. *The use of multispecies occupancy approaches to assess human disturbance impacts on wildlife communities in the Maya Biosphere Reserve Guatemala*

Co-Authors: D. Thornton, Washington State University; R. McNab, Wildlife Conservation Society; Guatemala Program; García-Anleu, Wildlife Conservation Society – Guatemala Program

Keerthikrutha Seetharaman, University of British Columbia. *Understanding effects of forest fragmentation on vertebrates of Area de Conservación, Guanacaste Province, Costa Rica*

Caroline Seip, Government of Alberta, University of British Columbia. *Mammalian responses to caribou recovery activities in west-central Alberta*

Co-Authors: Robin Steenweg, Canadian Wildlife Service/ECCC; Cole Burton, University of British Columbia; Dave Hervieux, Government of Alberta; Jason Fisher, University of Victoria

Daniel Thornton, Washington State University. *Regional camera-trapping data to inform species status: declining white-lipped peccary populations in Mesoamerica*

Co-Authors: Rafael Reyna², Lucy Perera-Romero¹, Jeremy Radachowsky³, Mircea G. Hidalgo-Mihart⁴, Rony Garcia³, Roan McNab³, Lee Mcloughlin³, Rebecca Foster⁵, Bart Harmsen^{5,6}, José F. Moreira-Ramírez³, Fabricio Diaz-Santos³, Christopher Jordan^{5,7}, Roberto Salom-Pérez⁵, Ninon Meyer^{2,8}, Franklin Castaneda⁵, Fausto Antonio Elvir Valle⁹, Gabriela Ponce Santizo³, Ronit Amit^{10,11}, Stephanny Arroyo-Arce¹², Ian Thomson¹², Ricardo Moreno^{8,13}, Cody Schank^{7,14}, Paulina Arroyo-Gerala¹⁵, Horacio V. Bárcenas¹⁶, Esteben Brenes-Mora^{7,17}, Ana Patricia Calderón⁵, Michael V. Cove¹⁸, Diego Gomez-Hoyos¹⁹, José González-Maya¹⁹, Danny Guy¹², Gerobuam Hernández Jiménez²⁰, Maarten Hofman²¹, Roland Kays^{13,22}, Travis King¹, Marcio Arnoldo Martínez Menjivar²³, Javier de la Maza¹⁵, Rodrigo León-Pérez¹⁵, Victor Hugo Ramos², Marina Rivero²⁴, Sergio Romo-Asunción²⁴, Rugieri Juárez-López⁴, Alejandro Jesús-de la Cruz^{4,5}, J. Antonio de la Torre²⁴, Valeria Towns¹⁵, Jan Schipper²⁵, Hector Orlando Portillo Reyes⁹, Adolfo Artavia⁸, Edwin Hernández-Perez²⁶, Wilber Martínez², Gerald R. Urquhart²⁷, Howard Quigley⁵, Lain E. Pardo²⁸, Joel C. Sáenz²⁹, Khiavett Sanchez², John Polisar³.

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Jesse Whittington, Parks Canada. *Bison to bears: monitoring wildlife trends along the Canadian Rocky Mountains using remote cameras*

Co-Authors: Mark Hebblewhite, University of Montana; Barb Johnston, Banff National Park; Brenda Shepherd, Jasper National Park; Karsten Heuer, Banff National Park; Sara Williams, University of Montana

POSTER PRESENTATIONS

Joanna Burgar, MFLNRORD. *How many deer in your backyard? Using camera traps and location data to estimate the density of an urban ungulate population*

Co-Authors: Alina Fisher, University of Victoria (UVIC); Sandra Frey, UVIC; Wylie Fuller, UVIC; Jason Fisher, UVIC

Katherine Baillie-David, University of Victoria. *Evaluating the effects of a woodland caribou recovery strategy on grey wolf resource selection using camera traps*

Co-Authors: Andrew Ladle, University of Victoria; John Volpe, University of Victoria; Jason Fisher, University of Victoria

Sam Foster, University of Idaho. *Disentangling the effects of landscape disturbance and community interactions on mule deer behaviour and habitat selection in Southern B.C.*

Lisa Dahlseide, Weaselhead/Glenmore Park Preservation Society. *Calgary Captured: Using citizen science to teach about wildlife coexistence K-Grade 9*

Co-Authors: Matthew Wallace and Andie Antal

Laura Eliuk, University of Victoria. *The impacts of human activity and landscape change on a mammal community*

Co-Authors: Jason Fisher, University of Victoria

Mitch Fennell, University of British Columbia (UBC). *Multi-species Mammal Monitoring in Cathedral Provincial Park*
Co-Authors: Cole Burton, UBC

Nicola K. Guthrie, University of Calgary. *A comparison of different methods in determining the presence of an endangered mouse lemur throughout a human-modified landscape in South-Eastern Madagascar*
Co-Authors: Vero Ramananjato, University of Antananarivo; Nancia N. Raelinjanakolona, University of Antananarivo ; Ed Louis Jr., Omaha's Henry Doorly Zoo & Aquarium; Steig Johnson, University of Calgary

Paul F. Jones and **Amanda M. MacDonald**, Alberta Conservation Association. *Changing the way we see fences: camera traps document the true impacts of fences on wildlife*

Heather Klassen, MFLNRORD and **Jessica Pyett**, Mount Arrowsmith Biosphere Region Research Institute. *Plant Phenology and Productivity: Detecting and Understanding Climate Change*

Micah May, UNBC. *The Social Context for Camera Trap Studies: Lessons Learned from Northern Mongolia*