

WILDLIFE INVESTIGATIONS LAB (WIL) STAFF  
PEER REVIEWED PUBLICATIONS,  
2009 – [2015<sup>[CD1]</sup>]

2015

ANDERSON, R.L., J.L. DINSDALE, C.L. BATTISTONE, K.M. CRIPE, **C.S.Y.**

**CHUN**, R.W. SCHLORFF, M.A. BRADBURY, J.A. ESTEP, **S.G. TORRES**. 2015.

Abundance and density of Swainson's hawk in California: a statewide sampling framework for population monitoring. *Journal of Raptor Research*. Submitted.

GABRIEL, M., L. WOODS, G. WENGERT, N. STEPHENSON, J. HIGLEY, C. THOMPSON, S. MATTHEWS, R. SWEITZER, K. PURCELL, R. BARRETT, S. KELLER, P. GAFFNEY, M. JONES, R. POPPENGA, J. FOLEY, R. BROWN, **D. L. CLIFFORD**, B. SACKS. 2015. Patterns of Natural and Human-Caused Mortality Factors of a Rare Forest Carnivore, the Fisher (*Pekania pennanti*) in California. *PLoS ONE* 10(11):e0140640. Doi 10.1371/journal.pone.0140640

VICKERS, T.W., **D.L. CLIFFORD**, D.K. GARCELON, J.L. KING, C.L. DUNCAN, P.M. GAFFNEY, W.M. BOYCE. 2015. Pathology and Epidemiology of Ceruminous Gland Tumors among Endangered Santa Catalina Island Foxes (*Urocyon littoralis catalinae*) in the Channel Islands, USA. *PLoS ONE* 10(11): e0143211.

doi:10.1371/journal.pone.0143211

MORIARTY, M.E., T.W. VICKERS, **D.L. CLIFFORD**, D.K. GARCELON, P.M. GAFFNEY, K.W. LEE, J.L. KING, C.L. DUNCAN, W.M. BOYCE. 2015 Ear Mite Removal in the Santa Catalina Island Fox (*Urocyon littoralis catalinae*): Controlling Risk Factors for Cancer Development. *PLoS ONE* 10(12): e0144271.

doi:10.1371/journal.pone.0144271

GAFFNEY, P. M., C. WITTE, **D. L. CLIFFORD**, D. M. IMAI, T. D. O'BRIEN, M. TREJO, F. LIBERTA, K. ANNAMALAI, M. FÄNDRICH, E. MASLIAH, L. MUNSON, C. J. SIGURDSON. Systemic AA amyloidosis in island foxes (*Urocyon littoralis*): Severity and risk factors. *Veterinary Pathology*. September 29, 2015 online early version.

OTT-CONN, C.N., L.W. WOODS, **D.L. CLIFFORD**, T. BRANSTON, J. FOLEY. 2015. Histopathology and risk factors associated with *Neotrombicula microti* Infestation in the endangered Amargosa vole (*Microtus californicus scirpensis*). *Journal of Wildlife Diseases* 51(3): 680-687.

ROUG, A., **P. SWIFT**, G. GERSTENBERG, L. WOODS, C. KREUDER-JOHNSON, **S. TORRES**, AND B. PUSCHNER. 2015. Comparison of trace mineral concentrations in tail hair, body hair, blood and liver of mule deer (*Odocoileus hemionus*) in California. *Journal of Veterinary Diagnostic Investigation* 1–11. DOI: 10.1177/1040638715577826 jvdi.sagepub.com

LADOUCEUR, EE., M. ANDERSON, B.W. RITCHIE, P. CIEMBOR, G. RIMOLDI, M. PIAZZA, D. PESTI, **D.L. CLIFFORD**, F.GIANNITTI. 2015. Aleutian Disease: An Emerging Disease in Free-Ranging Striped Skunks (*Mephitis mephitis*) From California. Veterinary Pathology 52: 1250-1253

**RUDD, J.**, N. STEPHENSON, **D.L. CLIFFORD**, L.KONDE, J. VILLEPIQUE, J. FOLEY. 2015. Utilizing citizen science to document a mange epidemic in western gray squirrels (*Sciurus griseus anthonyi*) in two communities in California's San Bernardino Mountains. Wildlife Society Bulletin. In press.

ROUG, A., **P. SWIFT**, B. PUSCHNER, G. GERSTENBERG, C. JOHNSON, **S. TORRES**, L. WOODS. 2015. Exotic lice and hair loss syndrome in mule deer (*Odocoileus hemionus*) populations of California. Journal of Wildlife Diseases. Submitted.

BLEICH, V.C., J.H. DAVIS, J.M. RAMSEY, **B.J. GONZALES**, **S.G. TORRES**, C.K. JOHNSON, J.T. VILLEPIQUE. 2015. *Psoroptes* infestation and treatment in an isolated population of bighorn sheep (*Ovis canadensis*). Journal of Zoo and Wildlife Medicine 46(3):491-497.

2014

GAFFNEY, P. M., D. M. IMAI, **D. L. CLIFFORD**, M. GHASSEMIAN, R. SASIK, A. N. CHANG, T. D. O'BRIEN, J. COPPINGER, M. TREJO, E. MASLIAH, L. MUNSON, C. SIGURDSON. 2014. Proteomic Analysis of Highly Prevalent Amyloid A Amyloidosis Endemic to Endangered Island Foxes. PLoS ONE 9(11):e113765 . November 2014

GIANNITTI F., R.J. HIGGINS, P.A. PESAVENTO, F.D. CRUZ, **D.L. CLIFFORD**, M. PIAZZA, A.P. STRUCKHOFF, L.D. VALLE, A.W. BOLLEN, B. PUSCHNER, E. KERR, H. GELBERG, A. METE, S. MCGRAW, AND L.W. WOODS. 2014. Temporal and Geographic Clustering of Polyomavirus-Associated Olfactory Tumors in 10 Free-Ranging Raccoons (*Procyon lotor*). Veterinary Pathology. July 2014 vol. 51 no. 4 832-845

OTT-CONN, C.N., **D. CLIFFORD**, T. BRANSTON, R. KLINGER, AND J. FOLEY. Pathogen infection and exposure, and ectoparasites of the federally endangered Amargosa vole (*Microtus californicus scirpensis*), California, USA. Journal of Wildlife Diseases 50 (4): 767-776.

FOLEY, J., C. OTT-CONN, J. WORTH, A. POULSEN, AND **D. CLIFFORD**. An *Ixodes minor* and *Borrelia carolinensis* enzootic cycle involving a critically endangered Mojave Desert rodent. Ecology and Evolution 4 (5): 576-581.

KELLY, T.R., R. H. POPPENGA, L. A. WOODS, Y. Z. HERNANDEZ, W. M. BOYCE, F. J. SAMANIEGO, S. G. TORRES, AND C. K. JOHNSON. 2014. Causes of mortality and unintentional poisoning in predatory and scavenging birds in California. Journal of the British Veterinary Association. Vet Rec Open 2014;1:e000028 doi:10.1136/vropen-2014-000028

**ROGERS, K.H.**, A. METE, S. MCMILLIN, R. SHINN. 2014. Polymelia and syndactyly in a Swainson's hawk (*Buteo swainsoni*). Journal of Wildlife Diseases. In press.

SADAR, M., D. GUZMAN, A. METE, J. FOLEY, N. STEPHENSON, **K. ROGERS**, C. GROSSET, S. SMALLWOOD, J. SHIPMAN, A. WELLS, S. WHITE, D. BELL, M. HAWKINS. 2014. Mange caused by a Knemidokoptes derooui-like mite in a golden eagle (*Aquila chrysaetos*). Journal of Avian Medical Surgery. In press.

BLEICH, V.C., J.T. VILLEPIQUE, J.H. DAVIS, **S.G. TORRES**, **B.J. GONZALES**. 2014. Psoroptes mites and mule deer (*Odocoileus hemionus*): Additional Notes from the San Bernardino Mountains, California. Bull. Southern California Academy of Science. 113(2), 2014, pp. 96–99

METE, A., N. STEPHENSON, **K. ROGERS**, M. HAWKINS, M. SADAR, G. SANCHEZ-MIGALLON, D. BELL, K. SMALLWOOD, A. WELLS, J. SHIPMAN, J. FOLEY. 2014. Knemidocoptic mange in wild Golden Eagles, California, USA. Emerging Infectious Disease, 20(10): 1716-8.

CYPHER, B.L., **S.C. MCMILLIN**, T.L. WESTALL, C.L. VAN HORN JOB, R.C. HOSEA, B.J. FINLAYSON, AND E.C. KELLY. 2014. Habitat use patterns and rodenticide exposure among San Joaquin kit foxes in an urban landscape. Cities and the Environment. Cities and the Environment Vol. 7: Iss. 1, Article 8. (Available at: <http://digitalcommons.lmu.edu/cate/vol7/iss1/8>)

GIRARD, Y.A., **K.H. ROGERS**, R. GERHOLD, K.M. LAND, S.C. LENAGHAN, L.W. WOODS, N. HABERKERN, M. HOPPER, J.D. CANN, C.K. JOHNSON. 2014. *Trichomonas stableri* n. sp., an agent of trichomonosis in Pacific Coast band-tailed pigeons (*Patagioenas fasciata monilis*). International Journal for Parasitology: Parasites and Wildlife 3: 32-40

GIRARD, Y.A., **K.H. ROGERS**, L.W. WOODS, N. CHOUICHA, W.A. MILLER, C.K. JOHNSON. 2014. Dual-pathogen etiology of avian trichomonosis in a declining band-tailed pigeon population. Infection, Genetics, and Evolution 24:146-156

2013

FOLEY, J., T. BRANSTON, L.W. WOODS AND **D. L. CLIFFORD**. Severe ulceronecrotic dermatitis associated with invasive mite infestation in the critically endangered Amargosa vole (*Microtus californicus scirpensis*). *Journal of Parasitology* 99(4):595-8.013

STEPHENSON, N., **D.L. CLIFFORD**, S.J. WORTH, L.E.K. SERIEYS, AND J. FOLEY. 2013. Development and validation of a fecal PCR assay for *Notoedres cati* and application to newly discovered notoedric mange cases in bobcats (*Lynx rufus*) from Northern California. *Journal of Wildlife Diseases* 49: 303-311.

SERIEYS, L. E. K., J. FOLEY, S. OWENS, L. WOODS, E. E. BOYDSTON, L. M. LYREN, R. H. POPPENGA, **D. L. CLIFFORD**, N. STEPHENSON, **J. RUDD**, S. P. D. RILEY. 2013. Serum Chemistry, Hematologic, and Post-Mortem Findings in Free-Ranging Bobcats (*Lynx rufus*) With Notoedric Mange. *Journal of Parasitology* 99(6):989-996.

STEPHENSON, N., **P. SWIFT**, J. T. VILLEPIQUE, **D. L. CLIFFORD**, A. NYAOKE, A. DE LA MORA, J. MOORE, AND J. FOLEY. 2013. Pathologic findings in Western gray squirrels (*Sciurus griseus*) from a notoedric mange epidemic in the San Bernardino Mountains, California. *International Journal for Parasitology: Parasites and Wildlife* 2: 266–270.

GABRIEL, M.W., G. WENGERT, J. HIGLEY, S. KROGAN, W. SARGENT, **D.L. CLIFFORD**. 2013. Silent Forests? Rodenticides on Illegal Marijuana Crops Harm Wildlife. *The Wildlife Society, The Wildlife Professional*, Spring 2013, pg. 46-50.

STEPHENSON, N., **P. SWIFT**, R.B. MOELLER, S.J. WORTH, J. FOLEY. 2013. Feline Infectious Peritonitis in a Mountain Lion (*Puma Concolor*): A Case Report. *Journal of Wildlife Diseases*. Accepted.

SILBERNAGEL C., **D.L. CLIFFORD**, J. BETTASO, S. WORTH, AND J. FOLEY. 2013. Prevalence of selected pathogens in western pond turtles and sympatric introduced red-eared sliders in California, USA. *Diseases of Aquatic Organisms* 107:37-47.

GABRIEL, M.W., L.W. WOODS, R. POPPENGA, R.A. SWEITZER, C. THOMPSON, S.M. MATTHEWS, J.M. HIGLEY, S.M. KELLER, K. PURCELL, R.H. BARRET, G.M. WENGERT, B.N. SACKS, **D.L. CLIFFORD**. 2013. Anticoagulant rodenticides on our public and community lands: spatial distribution of exposure and poisoning of a rare forest carnivore. *PLoS ONE* 7(7): e40163. doi:10.1371/journal.pone.0040163

FOLEY, J. E., **P. SWIFT**, K.A. FLEER, **S. G. TORRES**, Y. A. GIRARD, C. K. JOHNSON. 2013. Risk factors for exposure to feline pathogens in California mountain lions (*Puma concolor*). *Journal of Wildlife Disease*. Submitted.

GIRARD, Y. A., P. SWIFT, B. B. CHOMEL, R. W. KASTEN, K. A. FLEER, J. E. FOLEY, S. G. TORRES, C. K. JOHNSON. 2012. Bacterial zoonotic and vector-borne pathogens in California mountain lions (*Puma concolor*), 1987-2010. *Vector Borne and Zoonotic Disease* 12: 1-9

ROUG, A., P. SWIFT, S. G. TORRES, K. JONES, C. K. JOHNSON. 2012, Serosurveillance for Livestock Pathogens in Free-Ranging Mule Deer (*Odocoileus hemionus*). *PLoS ONE* 7(11): e50600. doi:10.1371/journal.pone.0050600

MINEAU, P., L. LYON, S. MCMILLIN. 2012. Impacts of carbofuran on birds in Canada and the United States. In: Carbofuran and Wildlife Poisoning: Global Perspectives and Forensic Approaches. Edited by Ngaio Richards. Wiley-Blackwell.

INOUE H., D.L. CLIFFORD, T. W. VICKERS, T.J. COONAN, D.K. GARCELON, D. BORJESSON. 2012. Biochemical and hematological reference intervals for the endangered island fox (*Urocyon littoralis*). *Journal of Wildlife Diseases*. . 48 (3): 583-592.

POPPENGA, R. H., J. RAMSEY, B. J. GONZALES, C. K. JOHNSON. 2012. Mineral Concentrations in Whole Blood and Serum of Bighorn Sheep (*Ovis canadensis*) in California. *Journal of Veterinary Diagnostic Investigation*. In Review.

WENGERT, G.M., M.W. GABRIEL, D.L. CLIFFORD. 2012. Investigating cause-specific mortality and diseases in carnivores: tools and techniques. in Carnivore Ecology and Conservation: A Handbook of Techniques. editors L. Boitani and R. A. Powell. Techniques in Ecology and Conservation Series. Oxford University Press, Oxford,UK.

2011

FOLEY J., D.L. CLIFFORD, K. CASTLE, P. CRYAN, R. OSTFELD. 2011. Investigating and Managing the Rapid Emergence of White-Nose Syndrome, A Novel, Fatal, Infectious Disease of Hibernating Bats. *Conservation Biology* 25(2): 223-231.

KELLY T.R., P.H. BLOOM, S.G. TORRES, Y.Z. HERNANDEZ, R.H. POPPENGA, W.M. BOYCE, C.K. JOHNSON. 2011. Impact of the California Lead Ammunition Ban on Reducing Lead Exposure in Golden Eagles and Turkey Vultures. *PLoS ONE* 6(4): e17656. doi:10.1371/journal.pone.0017656

LI, L., P.A. PESAVENTO, L. WOODS, D.L. CLIFFORD, J. LUUFF, C. WANG, E. DELWART. 2011. A Novel Amdovirus in Gray Foxes. *Emerging Infectious Diseases* 17(10): 1876- 1878.

SCHAEFER, J.D., R.W. KASTEN, T.J.COONAN. D.L.CLIFFORD, B.B. CHOMEL. 2011. Isolation or detection of Bartonella vinsonii subspecies berkhoffii and Bartonella

rochalimae in the endangered island foxes (*Urocyon littoralis*). *Veterinary Microbiology*. 154(1-2):135-139.

MOORE, J.D., B.C. MARSHMAN, C.S.Y. CHUN. 2011. Health and survival of red abalone *Haliotis rufescens* from San Miguel Island, California, USA, in a laboratory simulation of La Nina and El Nino conditions. *Journal of Aquatic Animal Health* 23: 78-84.

VASQUEZ, M., J. RINDERNECK, J. NEWMAN, S. MCMILLIN, B. FINLAYSON, A. MEKEBRI, D. CRANE, R. TJEERDEMA. 2011. Rotenone formulation fate in Lake Davis following the 2007 treatment. *Environmental Toxicology and Chemistry*. In Press.

MCMILLIN, S.C., B.J. FINLAYSON. 2010. Investigation of Chlorophacinone-Related Goose Deaths in Monterey County, California. Proc. 24th Vertebr. Pest Conf. (R. M. Timm and K. A. Fagerstone, Eds.) Published at Univ. of Calif., Davis. 2010. Pp. 178-180.

SCHUMAKER, B. A., J. A. K. MAZET, B. J. GONZALES, P. H. ELZER, S. K. HIETALA, M. H. ZICCARDI. 2010. Evaluation of the western immunoblot as a detection method for *Brucella abortus* infection in elk. *Journal of Wildlife Diseases* 46(1) pp. 87-94.

BLEICH, V.C., J.H. DAVIS, J.P. MARSHAL, S.G. TORRES, B.J. GONZALES. 2009. Mining activity and habitat use by mountain sheep (*Ovis Canadensis*). *European Journal of Wildlife Research*. 55:183-191

MCMILLIN, S. , J. TRUMBO. 2009. Field assessment of Baysluscide treatments for the control of New Zealand mudsnail *Potamopyrgus antipodarum* in a concrete-lined canal. *California Fish and Game* 95(4): 1-4.

RUBIN, E.S., C.J. STERMER, W.M. BOYCE, S.G. TORRES. 2009. Assessment of predictive habitat models for bighorn sheep in California's Peninsular Ranges. *Journal of Wildlife Management*. 73(6):859-869.

TOMASSINI, L., B. J. GONZALES, G. C. WEISER, W. SISCHO. 2009. An ecologic study comparing distribution of *Pasteurella trehalosi* and *Mannheimia haemolytica* between Sierra Nevada bighorn sheep, White Mountain bighorn sheep, and domestic sheep. *Journal of Wildlife Diseases*. 45(4) pp 930-940.

CLIFFORD, D.L., B.A. SCHUMAKER, T.R. STEPHENSON, V.C. BLEICH, M.L. CAHN, B.J. GONZALES, W. M. BOYCE, J.A.K. MAZET. 2009. Assessing disease risk at the wildlife livestock interface: A study of Sierra Nevada bighorn sheep. *Biological Conservation* 11: 2559-2568.