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## **Living with the Large Carnivores: The interaction between humans, tigers and leopards in Chitwan National Park, Nepal**

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# References

- Acharya, K. P., Paudel, P. K., Neupane, P. R., & Köhl, M. (2016). Human-wildlife conflicts in Nepal: Patterns of human fatalities and injuries caused by large mammals. *PLoS ONE*, 11(9), e016171, 1–18. <https://doi.org/10.1371/journal.pone.0161717>
- Adhikari, B., Di Falco, S., & Lovett, J. C. (2004). Household characteristics and forest dependency: Evidence from common property forest management in Nepal. *Ecological Economics*, 48(2), 245–257. <https://doi.org/10.1016/j.ecolecon.2003.08.008>
- Andrade, G. S. M., & Rhodes, J. R. (2012). Protected areas and local communities: An inevitable partnership toward successful conservation strategies? *Ecology and Society*, 17(4). <https://doi.org/10.5751/ES-05216-170414>
- Arnold, J. E. M., & Campbell, J. G. (1986). Collective Management of Hill Forests in Nepal: The Community Forestry Development Programme. In *Conference on Common Property Resource Management Conference, April 21–26, 1985* (pp. 425–454). Washington D.C.: National Academy Press.
- Aryal, A., Acharya, K. P., Shrestha, U. B., Dhakal, M., Raubenheimer, D., & Wright, W. (2017). Global lessons from successful rhinoceros conservation in Nepal. *Conservation Biology*, 31(6), 1494–1497. <https://doi.org/10.1111/cobi.12894>
- Azlan, J. M., & Sharma, D. S. K. (2006). The diversity and activity patterns of wild felids in a secondary forest in Peninsular Malaysia. *Oryx*, 40(1), 36–41. <https://doi.org/10.1017/S0030605306000147>
- Bahuguna, A. (2010). *Species identification from guard hair of selected Indian mammals: A reference guide*. Dehradun: Wildlife Institute of India.
- Bajracharya, S. B., & Dahal, N. (2008). *Shifting Paradigms in Protected Area Management*. Kathmandu: National Trust for Nature Conservation.
- Balme, G. A., Pitman, R. T., Robinson, H. S., Miller, J. R. B., Funston, P. J., & Hunter, L. T. B. (2017). Leopard distribution and abundance is unaffected by interference competition with lions. *Behavioral Ecology*, 28(5), 1348–1358. <https://doi.org/10.1093/beheco/arx098>
- Banikoi, H., Shuvani, T., Nabin, B., Kandel, R. C., Sudarshan, C., Shankar, C., ... Adhikari, M. D. (2017). *Mitigating human-wildlife conflict in Nepal: a case study of fences around Chitwan National Park. ICIMOD Working Paper*. Kathmandu: International Centre for Integrated Mountain Development (ICIMOD). Retrieved from <http://lib.icimod.org/record/32701/files/icimodWP14-017.pdf>

- 
- Barlow, A. C. D., Ahmad, I., & Smith, J. L. D. (2013). Profiling tigers (*Panthera tigris*) to formulate management responses to human-killing in the Bangladesh Sundarbans. *Wildlife Biology in Practice*, 9(2), 30–39. <https://doi.org/10.2461/wbp.2013.9.6>
- Barlow, A. C. D., Greenwood, C. J., Ahmad, I. U., & Smith, J. L. D. (2010). Use of an action-selection framework for Human-carnivore conflict in the bangladesh sundarbans. *Conservation Biology*, 24(5), 1338–1347. <https://doi.org/10.1111/j.1523-1739.2010.01496.x>
- Barnosky, A. D., Matzke, N., Tomiya, S., Wogan, G. O. U., Swartz, B., Quental, T. B., ... Ferrer, E. A. (2011). Has the Earth's sixth mass extinction already arrived? *Nature*, 471(7336), 51–57. <https://doi.org/10.1038/nature09678>
- Berreman, G. D. (1997). *Hindus of the Himalayas: Ethnography and Change* (2nd ed.). New Delhi: Oxford University Press.
- Bhandari, P. B. (2013). Rural livelihood change? Household capital, community resources and livelihood transition. *Journal of Rural Studies*, 32, 126–136. <https://doi.org/10.1016/j.jrurstud.2013.05.001>
- Bhattarai, B. P. (2005). *The Effectiveness of Foreign Aid: A Case Study of Nepal*. PhD Thesis. University of Western Australia. Retrieved from <http://researchdirect.westernsydney.edu.au/islandora/object/uws%3A3590/dastream/PDF/view>
- Bhattarai, B. P., & Kindlmann, P. (2012a). Habitat heterogeneity as the key determinant of the abundance and habitat preference of prey species of tiger in the Chitwan National Park, Nepal. *Acta Theriologica*, 57(1), 89–97. <https://doi.org/10.1007/s13364-011-0047-8>
- Bhattarai, B. P., & Kindlmann, P. (2012b). Interactions between Bengal tiger (*Panthera tigris*) and leopard (*Panthera pardus*): Implications for their conservation. *Biodiversity and Conservation*, 21(8), 2075–2094. <https://doi.org/10.1007/s10531-012-0298-y>
- Bhattarai, B. R., & Fischer, K. (2014). Human-tiger *Panthera tigris* conflict and its perception in Bardia National Park, Nepal. *Oryx*, 48(4), 522–528. <https://doi.org/10.1017/S0030605313000483>
- Bhattarai, B. R., Wright, W., Poudel, B. S., Aryal, A., Yadav, B. P., & Wagle, R. (2017). Shifting paradigms for Nepal's protected areas: history, challenges and relationships. *Journal of Mountain Science*, 14(5), 964–979. <https://doi.org/10.1007/s11629-016-3980-9>
- Bista, D. B. (1971). *People of Nepal* (2nd ed.). Kathmandu: Ratna Pustak Bhandar.
- Borrini-Feyerabend, G., Pimbert, M., Farvar, M. T., Kothari, A., & Renard, Y. (2004). *Sharing power. Learning by doing in co-management of natural resources throughout the world*. London: Earthscan. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/20980207>

- Bruner, A. G., Gullison, R. E., Rice, R. E., & da Fonseca, G. A. B. (2001). Effectiveness of parks in protecting tropical biodiversity. *Science*, 291(5501), 126–128. <https://doi.org/10.1126/science.291.5501.125>
- Budhathoki, P. (2004). Linking communities with conservation in developing countries: Buffer zone management initiatives in Nepal. *Oryx*, 38(3), 334–341. <https://doi.org/10.1017/S0030605304000584>
- Burnham, K. P., & Anderson, D. R. (2003). *Model selection and multimodel inference: a practical information-theoretic approach* (2nd ed.). New York: Springer-Verlag.
- Carter, N. (2013). *Coupled human and natural systems approach to tiger conservation in Chitwan, Nepal and beyond*. PhD Thesis. Michigan State University. Retrieved from <https://d.lib.msu.edu/etd/2090>
- Carter, N. H., & Linnell, J. D. C. (2016). Co-adaptation is key to coexisting with large carnivores. *Trends in Ecology and Evolution*, 31(8), 575–578. <https://doi.org/10.1016/j.tree.2016.05.006>
- Carter, N. H., Riley, S. J., Shortridge, A., Shrestha, B. K., & Liu, J. (2014). Spatial assessment of attitudes toward tigers in Nepal. *Ambio*, 43(2), 125–137. <https://doi.org/10.1007/s13280-013-0421-7>
- Carter, N. H., Shrestha, B. K., Karki, J. B., Man, N., Pradhan, B., & Liu, J. (2012). Coexistence between wildlife and humans at fine spatial scales. *Proceeding of the National Academy of Sciences*, 109(38), 15360–15365. <https://doi.org/10.1073/pnas.1210490109>
- Carter, N., Jasny, M., Gurung, B., & Liu, J. (2015). Impacts of people and tigers on leopard spatiotemporal activity patterns in a global biodiversity hotspot. *Global Ecology and Conservation*, 3, 149–162. <https://doi.org/10.1016/j.gecco.2014.11.013>
- CBS. (2012). *National population and housing census 2011*. National Planning Commission Secretariat (Vol. 01). Kathmandu: Central Bureau of Statistics.
- Chakrabarti, S., Jhala, Y. V., Dutta, S., Qureshi, Q., Kadivar, R. F., & Rana, V. J. (2016). Adding constraints to predation through allometric relation of scats to consumption. *Journal of Animal Ecology*, 85(3), 660–670. <https://doi.org/10.1111/1365-2656.12508>
- Chanchani, P., Lamichhane, B. R., Malla, S., Maurya, K., Bista, A., Warruer, R., ... Borah, J. (2014). *Tigers of the Transboundary Terai Arc Landscape: Status , distribution and movement in the Terai of India and Nepal*. New Delhi: National Tiger Conservation Authority India; and Kathmandu: Department of National Parks and Wildlfe Conservattion Nepal. Retrieved from <http://www.indiaenvironmentportal.org.in/content/400593/tigers-of-the-trans-boundary-terai-arc-landscape-status-distribution-and-movement-in-the-terai-of-india-and-nepal/>

- 
- Chapron, G., & López-Bao, J. V. (2016). Coexistence with Large Carnivores Informed by Community Ecology. *Trends in Ecology and Evolution*, 31(8), 578–580. <https://doi.org/10.1016/j.tree.2016.06.003>
- CNP. (2004). *Annual Report of FY 2059/60*. Kasara: Chitwan National Park Office.
- CNP. (2013a). *Annual Report 2068/69 (In Nepali)*. Kasara: Chitwan National Park Office.
- CNP. (2013b). *Chitwan National Park and Its Buffer Zone Management Plan 2013 - 2017*. Kasara: Chitwan National Park Office.
- CNP. (2015). *Loss from wildlife and relief distribution details FY 1998/99 to 2014/2015 (In Nepali)*. Kasara: Chitwan National Park Office.
- CNP. (2016). *Grassland Habitat Mapping in Chitwan National Park*. Kasara: Chitwan National Park Office.
- CNP. (2017). *Annual Report 2073/74*. Kasara: Chitwan National Park Office.
- CNP. (2018). Biodiversity. Retrieved April 27, 2018, from <http://chitwannationalpark.gov.np/index.php/biodiversity>
- Cozzi, G., Broekhuis, F., Mcnutt, J. W., Turnbull, L. A., Macdonald, D. W., & Schmid, B. (2012). Fear of the dark or dinner by moonlight? Reduced temporal partitioning among Africa's large carnivores. *Ecology*, 93(12), 2590–2599. <https://doi.org/10.1890/12-0017.1>
- CTEVT. (2014). *Dynamics and Dimensions of Labor Migration from Nepal, a report based on advertisement analysis*. Bhaktapur: Council for Technical Education and Vocational Training.
- Dangol, D. R., & Gurung, S. B. (1991). Ethnobotany of the tharu tribe of chitwan district, Nepal. *Pharmaceutical Biology*, 29(3), 203–209. <https://doi.org/10.3109/13880209109082879>
- Darwin, C. (1859). *On the Origin of Species by Means of Natural Selection or the Preservation of Favoured Races in the Struggle for Life*. London: John Murray.
- Daszak, P., Cunningham, A. A., & Hyatt, A. D. (2000). Emerging infectious diseases of wildlife - Threats to biodiversity and human health. *Science*, 287(5452), 443–449. <https://doi.org/10.1126/science.287.5452.443>
- De Vaus, D. A. (2013). *Surveys in social research* (5th ed.). Sydney: Allen & Unwin.
- Department of Foreign Employment. (2017). *Annual Report F.Y. 2072/2073 (in Nepali)*. Kathmandu. Retrieved from [http://www.dofe.gov.np/new/uploads/article/yearly\\_progress\\_report\\_2072-2073.pdf](http://www.dofe.gov.np/new/uploads/article/yearly_progress_report_2072-2073.pdf)

- Dey, T. K., Kabir, M. J., Islam, M. M., Chowdhury, M. M. R., Hassan, S., & Jhala, Y. V. (2015). *First phase tiger status report of Bangladesh Sundarbans, 2015*. Dehradun: Wildlife Institute of India, and Dhaka:Bangladesh Forest Department. Retrieved from [https://bforest.portal.gov.bd/sites/default/files/files/bforest.portal.gov.bd/page/a0c8004a\\_4699\\_4467\\_a009\\_af893261a710/Tiger%20Status%20Report.pdf](https://bforest.portal.gov.bd/sites/default/files/files/bforest.portal.gov.bd/page/a0c8004a_4699_4467_a009_af893261a710/Tiger%20Status%20Report.pdf)
- DFRS. (2015). *State of Nepal's Forests*. Kathmandu: Department of Forest Research and Survey Forest. Retrieved from [www.dfrs.gov.np](http://www.dfrs.gov.np)
- Dhakal, M., Karki (Thapa), M., Jnawali, S. R., Subedi, N., Pradhan, N. M. B., Malla, S., ... Yadav, H. (2014). *Status of tigers and Prey in Nepal. Technical Report*. Kathmandu: Department of National Parks and Wildlife Conservation.
- Dhungana, R., Savini, T., Karki, J. B., Dhakal, M., Lamichhane, B. R., & Bumrungsri, S. (2018). Living with tigers *Panthera tigris*: Patterns, correlates, and contexts of human-tiger conflict in Chitwan National Park, Nepal. *Oryx*, 52(1), 55–65. <https://doi.org/10.1017/S0030605316001587>
- Dickman, A. J. (2010). Complexities of conflict: The importance of considering social factors for effectively resolving human-wildlife conflict. *Animal Conservation*, 13(5), 458–466. <https://doi.org/10.1111/j.1469-1795.2010.00368.x>
- DNPWC. (2006). *The Tiger Conservation Action Plan 2006 – 2011*. Kathmandu: Department of National Parks and Wildlife Conservation.
- DNPWC. (2009). *Tiger and Preybase Monitoring Protocol, Nepal*. Kathmandu: Department of National Parks and Wildlife Conservation.
- DNPWC. (2014). *Annual report FY 2013/14*. Kathmandu: Department of National Parks and Wildlife Conservation.
- DNPWC. (2015a). *Annual report FY 2014/15*. Kathmandu: Department of National Parks and Wildlife Conservation.
- DNPWC. (2015b). *National Rhino Count 2015 Report*. Kathmandu: Department of National Parks and Wildlife Conservation.
- DNPWC. (2016). *Annual report FY 2015/16*. Kathmandu: Department of National Parks and Wildlife Conservation.
- DNPWC. (2017). *Annual Report FY 2016/17*. Kathmandu: Department of National Parks and Wildlife Conservation.
- DNPWC. (2018). *Status of tigers and prey in Nepal, 2018*. Kathmandu: Department of National Parks and Wildlife Conservation.

- 
- Duangchantrasiri, S., Umponjan, M., Simcharoen, S., Pattanavibool, A., Chaiwattana, S., Maneerat, S., ... Karanth, K. U. (2016). Dynamics of a low-density tiger population in Southeast Asia in the context of improved law enforcement. *Conservation Biology*, 30(3), 639–648. <https://doi.org/10.1111/cobi.12655>
- Ehrlich, P. R., & Wilson, E. O. (1991). Biodiversity studies: science and policy. *Science*, 253(5021), 758–762. <https://doi.org/10.1126/science.253.5021.758>
- Estes, J. A., Terborgh, J., Brashares, J. S., Power, M. E., Berger, J., Bond, W. J., ... Wardle, D. A. (2011). Trophic downgrading of planet earth. *Science*, 333(6040), 301–306. <https://doi.org/10.1126/science.1205106>
- Fisher, J., Simon, N., & Vincent, J. (1969). *Wildlife in danger*. New York: HarperCollins.
- Fontúrbel, F. E., & Simonetti, J. A. (2011). Translocations and human-carnivore conflicts: problem solving or problem creating? *Wildlife Biology*, 17(2), 217–224. <https://doi.org/10.2981/10-091>
- Fox, J. (2018). Community forestry, labor migration and agrarian change in a Nepali village: 1980 to 2010. *Journal of Peasant Studies*, 45(3), 610–629. <https://doi.org/10.1080/03066150.2016.1246436>
- Ghori, K. K. (1964). Nepal and its Neighbours. *Pakistan Horizon*, 17(4), 368–384.
- Gilmour, D. A., & Fisher, R. J. (1991). *Villagers, forests, and foresters: The philosophy, process, and practice of community forestry in Nepal*. Kathmandu: Sahayogi press.
- Goodrich, J., Lynam, A., Miquelle, D., Wibisono, H., Kawanishi, K., Pattanavibool, A., ... Karanth, U. (2015). *Panthera tigris*. Retrieved from <http://www.iucnredlist.org/details/15955/0>
- Goodrich, J. M. (2010). Human-tiger conflict: A review and call for comprehensive plans. *Integrative Zoology*, 5(4), 300–312. <https://doi.org/10.1111/j.1749-4877.2010.00218.x>
- Goodrich, J. M., & Miquelle, D. G. (2005). Translocation of problem Amur tigers *Panthera tigris altaica* to alleviate tiger-human conflicts. *Oryx*, 39(4), 454–457. <https://doi.org/10.1017/S0030605305001146>
- Gopalaswamy, A. M., Royle, J. A., Hines, J. E., Singh, P., Jathanna, D., Kumar, N. S., & Karanth, K. U. (2012). Program SPACECAP: Software for estimating animal density using spatially explicit capture-recapture models. *Methods in Ecology and Evolution*, 3(6), 1067–1072. <https://doi.org/10.1111/j.2041-210X.2012.00241.x>
- Gotelli, N. J. (2001). Research frontiers in null model analysis. *Global Ecology and Biogeography*, 10(4), 337–343. <https://doi.org/10.1046/j.1466-822X.2001.00249.x>

- Gray, T. N. E., & Prum, S. (2012). Leopard density in post-conflict landscape, Cambodia: Evidence from spatially explicit capture-recapture. *Journal of Wildlife Management*, 76(1), 163–169. <https://doi.org/10.1002/jwmg.230>
- Grueber, C. E., Nakagawa, S., Laws, R. J., & Jamieson, I. G. (2011). Multimodel inference in ecology and evolution: challenges and solutions. *Journal of Evolutionary Biology*, 24(4), 699–711. <https://doi.org/10.1111/j.1420-9101.2010.02210.x>
- GTI. (2010). *Global Tiger Recovery Program 2010–2022*. Washington D.C.:Global Tiger Initiative (the World Bank).
- Guneratne, A. (2016). The Tharu of Chitwan, Nepal. In B. A. Brower & B. R. Johnston (Eds.), *Disappearing Peoples?: Indigenous Groups and Ethnic Minorities in South and Central Asia* (pp. 91–106). California: Left Coast Press.
- Gunn, J., Hawkins, D., Barnes, R. F. W., Mofulu, F., Grant, R. A., & Norton, G. W. (2014). The influence of lunar cycles on crop-raiding elephants; evidence for risk avoidance. *African Journal of Ecology*, 52(2), 129–137. <https://doi.org/10.1111/aje.12091>
- Gurung, B., Nelson, K. C., & Smith, J. L. D. (2009). Impact of grazing restrictions on livestock composition and husbandry practices in Madi Valley, Chitwan National Park, Nepal. *Environmental Conservation*, 36(4), 338–347. <https://doi.org/10.1017/S0376892910000160>
- Gurung, B., Smith, J. L. D., McDougal, C., Karki, J. B., & Barlow, A. (2008). Factors associated with human-killing tigers in Chitwan National Park, Nepal. *Biological Conservation*, 141(12), 3069–3078. <https://doi.org/10.1016/j.biocon.2008.09.013>
- Gurung, H. B. (2003). *Social demography of Nepal: census 2001* (1st ed.). Kathmandu: Himal Books.
- Han, S. Y. (2014). *Migration and Livelihood Transitions of Rural Farming Households. PhD Thesis*. Arizona State University.
- Hangen, S. (2007). *Creating a “New Nepal”: The Ethnic Dimension. Policy Studies 24*. Washington D.C.: East West Center.
- Harihar, A., Chanchani, P., Sharma, R. K., Vattakaven, J., Gubbi, S., Pandav, B., & Noon, B. (2013). Conflating “co-occurrence” with “coexistence.” *Proceedings of the National Academy of Sciences*, 110(2), E109–E109. <https://doi.org/10.1073/pnas.1217001110>
- Harihar, A., Pandav, B., & Goyal, S. P. (2011). Responses of leopard *Panthera pardus* to the recovery of a tiger *Panthera tigris* population. *Journal of Applied Ecology*, 48(3), 806–814. <https://doi.org/10.1111/j.1365-2664.2011.01981.x>

- 
- Harihar, A., Veríssimo, D., & MacMillan, D. C. (2015). Beyond compensation: integrating local communities - livelihood choices in large carnivore conservation. *Global Environmental Change*, 33, 122–130. [https://doi.org/https://doi.org/10.1016/j.gloenvcha.2015.05.004](https://doi.org/10.1016/j.gloenvcha.2015.05.004)
- Heinen, J. T., & Mehta, J. N. (2000). Emerging issues in legal and procedural aspects of buffer zone management with case studies from Nepal. *Journal of Environment and Development*, 9(1), 45–67. <https://doi.org/10.1177/107049650000900103>
- Hiby, L., Lovell, P., Patil, N., Kumar, N. S., Gopalaswamy, A. M., & Karanth, K. U. (2009). A tiger cannot change its stripes: using a three-dimensional model to match images of living tigers and tiger skins. *Biology Letters*, 5(3), 383–386. <https://doi.org/10.1098/rsbl.2009.0028>
- Holt, R. D., & Polis, G. A. (1997). A theoretical framework for intraguild predation. *American Naturalist*, 745–764. <https://doi.org/10.1086/286018>
- IBM. (2012). IBM SPSS Advanced Statistics 20. *IBM*, 184. <https://doi.org/10.1080/02331889108802322>
- Ingles, A. W. (1995). Religious beliefs and rituals in Nepal. In H. Patricia & D. A. Gilmour (Eds.), *Conserving Biodiversity Outside Protected Areas The role of traditional agro-ecosystems* (p. 205). Gland: IUCN. Retrieved from <https://portals.iucn.org/library/sites/library/files/documents/FR-013.pdf>
- Inskip, C., Fahad, Z., Tully, R., Roberts, T., & MacMillan, D. (2014). Understanding carnivore killing behaviour: Exploring the motivations for tiger killing in the Sundarbans, Bangladesh. *Biological Conservation*, 180, 42–50. <https://doi.org/10.1016/j.biocon.2014.09.028>
- Inskip, C., & Zimmermann, A. (2009). Human-felid conflict: A review of patterns and priorities worldwide. *Oryx*, 43(1), 18–34. <https://doi.org/10.1017/S003060530899030X>
- IUCN. (2008). *Defining protected areas. IUCN Protected Areas Categories Summit*. Gland: International Union for Conservation of Nature and Natural Resources. Retrieved from [http://cmsdata.iucn.org/downloads/almeria\\_proceedings\\_final.pdf](http://cmsdata.iucn.org/downloads/almeria_proceedings_final.pdf)
- IUCN. (2018). The IUCN redlist of threatened species. Retrieved from <http://www.iucnredlist.org/initiatives/mammals>
- Jacobson, A. P., Gerngross, P., Lemuris Jr., J. R., Schoonover, R. F., Anco, C., Breitenmoser-Würsten, C., Dollar, L. (2016). Leopard (*Panthera pardus*) status, distribution, and the research efforts across its range. *PeerJ*, 4, e1974. <https://doi.org/10.7717/peerj.1974>
- Johnson, A., Vongkhamheng, C., Hedemark, M., & Saithongdam, T. (2006). Effects of human-carnivore conflict on tiger (*Panthera tigris*) and prey populations in Lao PDR. *Animal Conservation*, 9(4), 421–430. <https://doi.org/10.1111/j.1469-1795.2006.00049.x>

- Joshi, A. R., Dinerstein, E., Wikramanayake, E., Anderson, M. L., Olson, D., Jones, B. S., ... Hahn, N. R. (2016). Tracking changes and preventing loss in critical tiger habitat. *Science Advances*, 2(4), e1501675. <https://doi.org/10.1126/sciadv.1501675>
- Kalle, R., Ramesh, T., Qureshi, Q., & Sankar, K. (2011). Density of tiger and leopard in a tropical deciduous forest of Mudumalai Tiger Reserve, southern India, as estimated using photographic capture-recapture sampling. *Acta Theriologica*, 56(4), 335–342. <https://doi.org/10.1007/s13364-011-0038-9>
- Karanth, K. U., & Chellam, R. (2009). Carnivore conservation at the crossroads. *Oryx*, 43(1), 1–2. <https://doi.org/10.1017/S003060530843106X>
- Karanth, K. U., Gopalaswamy, A. M., Karanth, K. K., Goodrich, J., Seidensticker, J., & Robinson, J. G. (2013). Sinks as saviors: Why flawed inference cannot assist tiger recovery. *Proceedings of the National Academy of Sciences*, 110(2), E110–E110. <https://doi.org/10.1073/pnas.1216623110>
- Karanth, K. U., & Madhusudan, M. D. (2002). Mitigating human-wildlife conflicts in southern Asia. In J. Terborgh, C. Van Schaik, L. Davenport, & M. Rao (Eds.), *Making Parks Work: Strategies for Preserving Tropical Nature* (pp. 250–264). Island Press.
- Karanth, K. U., & Nicholas, J. D. (1998). Estimation of Tiger Densites in India using photographic captures and recaptures. *Ecology*, 79(8)(8), 2852–2862. [https://doi.org/10.1890/0012-9658\(1998\)079\[2852:EOTDII\]2.0.CO;2](https://doi.org/10.1890/0012-9658(1998)079[2852:EOTDII]2.0.CO;2)
- Karanth, K. U., Nichols, J. D., Kumar, N. S., Link, W. A., & Hines, J. E. (2004). Tigers and their prey: Predicting carnivore densities from prey abundance. *Proceedings of the National Academy of Sciences*, 101(14), 4854–4858. <https://doi.org/10.1073/pnas.0306210101>
- Karanth, K. U., Srivaths, A., Vasudev, D., Puri, M., Parameshwaran, R., & Kumar, N. S. (2017). Spatio-temporal interactions facilitate large carnivore sympatry across a resource gradient. *Proceedings of the Royal Society B: Biological Sciences*, 284(1848), 20161860. <https://doi.org/10.1098/rspb.2016.1860>
- Karanth, K. U., & Sunquist, M. E. (1995). Prey Selection by Tiger, Leopard and Dhole in Tropical Forests. *The Journal of Animal Ecology*, 64(4), 439–450. <https://doi.org/10.2307/5647>
- Karanth, K. U., & Sunquist, M. E. (2000). Behavioural correlates of predation by tiger (*Panthera tigris*), leopard (*Panthera pardus*) and dhole (*Cuon alpinus*) in Nagarhole, India. *Journal of Zoology*, 250(2), 255–265. <https://doi.org/10.1111/j.1469-7998.2000.tb01076.x>
- Karki, J. B., Jnawali, S. R., Shrestha, R., Pandey, M. B., Gurung, G. S., & Thapa-Karki, M. (2009). *Tigers and their Prey Base Abundance in the Terai Arc Landscape, Nepal*. Kathmandu: Department of National Parks and Wildlife Conservation.

---

Karki, J. B., Pandav, B., Jnawali, S. R., Shrestha, R., Pradhan, N. M. B., Lamichhane, B. R., ... Jhala, Y. V. (2015). Estimating the abundance of Nepal's largest population of tigers *Panthera tigris*. *Oryx*, 49(1), 150–156. <https://doi.org/10.1017/S0030605313000471>

Kawanishi, K., & Sunquist, M. E. (2004). Conservation status of tigers in a primary rainforest of Peninsular Malaysia. *Biological Conservation*, 120(3), 333–348. <https://doi.org/10.1016/j.biocon.2004.03.005>

Kenney, J., Allendorf, F. W., McDougal, C., & Smith, J. L. D. (2014). How much gene flow is needed to avoid inbreeding depression in wild tiger populations? *Proceedings of the Royal Society B: Biological Sciences*, 281(1789), 20133337. <https://doi.org/10.1098/rspb.2013.3337>

Khadka, N. S. (2014). Attacks prompt Nepal to cap wildlife growth. *BBC News - Science & Environment*. Retrieved from <http://www.bbc.com/news/science-environment-21069750>

Kolipaka, S. S. (2018). *Can tigers survive in human-dominated landscapes ? Understanding Human-Tiger Coexistence in the Buffer Zone of Panna Tiger Reserve, Madhya Pradesh, India*. PhD Thesis. Leiden University.

Kolipaka, S. S., Tamis, W. L. M., van 't Zelfde, M., Persoon, G. A., & de longh, H. H. (2017). New insights into the factors influencing movements and spatial distribution of reintroduced Bengal tigers (*Panthera tigris tigris*) in the human-dominated buffer zone of Panna Tiger Reserve, India. *Mammalia*, 82(3), 207–217. <https://doi.org/10.1515/mammalia-2016-0126>

Lambin, E. F., & Meyfroidt, P. (2011). Global land use change, economic globalization, and the looming land scarcity. *Proceedings of the National Academy of Sciences*, 108(9), 3465–3472. <https://doi.org/10.1073/pnas.1100480108>

Lamichhane, B. R., & Awasthi, K. D. (2009). Changing Climate in a Mountain Sub-watershed in Nepal. *Journal of Forests and Livelihood*, 8(1), 99–105.

Lamichhane, B. R., Dhakal, M., Subedi, N., & Pokheral, C. P. (2014). Clouded leopard co-exist with other five felids in Chitwan National Park, Nepal. *Cat News*, (61), 34–37.

Lamichhane, B. R., Persoon, G. A., Leirs, H., Musters, C. J. M., Subedi, N., Gairhe, K. P., ... de longh, H. H. (2017). Are conflict-causing tigers different? Another perspective for understanding human-tiger conflict in Chitwan National Park, Nepal. *Global Ecology and Conservation*, 11, 177–187. <https://doi.org/10.1016/j.gecco.2017.06.003>

Lamichhane, B. R., Persoon, G. A., Leirs, H., Poudel, S., Subedi, N., Pokheral, C. P., ... longh, H. H. De. (2018). Spatio-temporal patterns of attacks on human and economic losses from wildlife in Chitwan National Park , Nepal. *PLoS ONE*, 13(4), e0195373. <https://doi.org/10.1371/journal.pone.0195373>

- Lamichhane, B. R., Pokheral, C. P., Poudel, S., Adhikari, D., Giri, S. R., Bhattacharai, S., ... Subedi, N. (2018). Rapid recovery of tigers *Panthera tigris* in Parsa Wildlife Reserve, Nepal. *Oryx*, 52(1), 16–24. <https://doi.org/10.1017/S0030605317000886>
- Lehmkuhl, J. F. (1994). A classification of subtropical riverine grassland and forest in Chitwan National Park, Nepal. *Vegetation*, 111(1), 29–43. <https://doi.org/10.1007/BF00045575>
- Leopold, A. S. (1963). *Wildlife management in the national parks*. Washington D.C.: US National Park Service.
- Likert, R. (1932). A technique for the measurement of attitudes. *Archives of Psychology*, 22(140), 5–55. Retrieved from [https://legacy.voterview.com/pdf/Likert\\_1932.pdf](https://legacy.voterview.com/pdf/Likert_1932.pdf)
- Linnell, J. D. C., Aanes, R., Swenson, J. E., Odden, J., & Smith, M. E. (1997). Translocation of carnivores as a method for managing problem animals: a review. *Biodiversity & Conservation*, 6(9), 1245–1257. <https://doi.org/10.1023/B:BIOC.0000034011.05412.cd>
- Linnell, J. D. C., Odden, J., Smith, M. E., Aanes, R., & Swenson, J. E. (1999). Large carnivores that kill livestock: do “problem individuals” really exist. *Wildlife Society Bulletin*, 27(3), 698–705. Retrieved from <https://www.jstor.org/stable/3784091>
- Linnell, J. D. C., & Strand, O. (2000). Interference interactions, co-existence and conservation of mammalian carnivores. *Diversity and Distributions*, 6(4), 169–176. <https://doi.org/10.1046/j.1472-4642.2000.00069.x>
- Linnell, J. D. C., Swenson, J. E., & Andersen, R. (2001). Predators and people: Conservation of large carnivores is possible at high human densities if management policy is favourable. *Animal Conservation*, 4(4), 345–349. <https://doi.org/10.1017/S1367943001001408>
- Lovari, S., Pokheral, C. P., Jnawali, S. R., Fusani, L., & Ferretti, F. (2015). Coexistence of the tiger and the common leopard in a prey-rich area: The role of prey partitioning. *Journal of Zoology*, 295(2), 122–131. <https://doi.org/10.1111/jzo.12192>
- Madden, F. (2004). Creating coexistence between humans and wildlife: Global perspectives on local efforts to address Human–Wildlife conflict. *Human Dimensions of Wildlife*, 9(4), 247–257. <https://doi.org/10.1080/10871200490505675>
- Martin, E. B., & Martin, C. (2006). Insurgency and poverty : recipe for rhino poaching in Nepal. *Pachyderm*, (41), 61–73.
- Maurya, K. K., & Borah, J. (2013). *Status of Tigers in Valmiki Tiger Reserve, Terai Arc Landscape, Bihar, India*. New Delhi: WWF India. Retrieved from <http://www.indiaenvironmentportal.org.in/content/389529/status-of-tigers-in-valmiki-tiger-reserve-terai-arc-landscape-bihar/>

- 
- McDougal, C. (1998). Leopard and tiger interactions at Royal Chitwan National park, Nepal. *Journal of Bombay Natural History Society*, 85(3), 609–610.
- Mcdougal, C., Gurung, B., Tamang, D. B., Mahato, B. R., Kumal, R., & Shrestha, P. M. (2016). Stability of Tigers in Chitwan Nation Park Nepal. *Cat News*, 64, 33–36.
- Miller, J. R. B., Jhala, Y. V., & Jena, J. (2016). Livestock losses and hotspots of attack from tigers and leopards in Kanha Tiger Reserve, Central India. *Regional Environmental Change*, 16, 17–29. <https://doi.org/10.1007/s10113-015-0871-5>
- Mishra, H. R. (1982a). Balancing human needs and conservation in Nepal's Royal Chitwan Park (rhinoceros, tiger). *Ambio*, 11(5), 246–251. Retrieved from <https://www.jstor.org/stable/4312814>
- Mishra, H. R. (1982b). *The ecology and behavior of Chital (Axis axis) in the Royal Chitwan National Park, Nepal*. PhD Thesis. University of Edinburgh.
- Mishra, H. R., & Ottaway Jr., J. (2014). *Nepal's Chitwan National Park A Handbook*. Kathmandu: Vajra Books.
- MOF. (2017). *Development cooperation report Fiscal year 2016/2017*. Kathmandu: Ministry of Finance.
- MOFE. Buffer Zone Management Guidelines (1998). Kathmandu: Ministry of Forests and Environment, Nepal: Ministry of Forests and Environment.
- MOFE. Guidelines for compensation payments on damages from wildlife (third amendment) (2017). Kathmandu, Nepal: Ministry of Forests and Environment.
- MOFSC. (2002). *Nepal Biodiversity Strategy*. Kathmandu: Ministry of Forests and Soil Conservation.
- Mukherjee, S., Goyal, S. P., & Chellam, R. (1994). Refined techniques for the analysis of Asiatic lion Panthera leo persica scats. *Acta Theriologica*, 39(4), 425–430. <https://doi.org/10.4098/AT.arch.94-50>
- Murphy, S. T., Subedi, N., Jnawali, S. R., Lamichhane, B. R., Upadhyay, G. P., Kock, R., & Amin, R. (2013). Invasive mikania in Chitwan National Park, Nepal: The threat to the greater one-horned rhinoceros Rhinoceros unicornis and factors driving the invasion. *Oryx*, 47(3), 361–368. <https://doi.org/10.1017/S003060531200124X>
- Myers, N., Mittermeier, R. A., Mittermeier, C. G., da Fonseca, G. A. B., & Kent, J. (2000). Biodiversity hotspots for conservation priorities. *Nature*, 403(6772), 853–858. <https://doi.org/10.1038/35002501>

- Naughton-treves, L., Holland, M. B., & Brandon, K. (2005). The role of protected areas in conserving biodiversity and sustaining local livelihoods. *Annual Review of Environment and Resources*, 30, 219–252. <https://doi.org/10.1146/annurev.energy.30.050504.164507>
- Nepal, S. K., & Weber, K. E. (1994). A Buffer Zone for Biodiversity Conservation: Viability of the Concept in Nepal's Royal Chitwan National Park. *Environmental Conservation*, 21(4), 333–341. <https://doi.org/10.1017/S0376892900033646>
- Nepal, S. K., & Weber, K. E. (1995). Managing Resources and Resolving Conflicts - National-Parks and Local People. *International Journal of Sustainable Development and World Ecology*, 2(1), 11–25. <https://doi.org/10.1080/13504509.1995.10590662>
- Nepal, S. K., & Weber, K. E. (1995). The quandary of local people-Park relations in Nepal's Royal Chitwan National Park. *Environmental Management*, 19(6), 853–866. <https://doi.org/10.1007/BF02471937>
- Nepal, S., & Spiteri, A. (2011). Linking livelihoods and conservation: An examination of local residents' perceived linkages between conservation and livelihood benefits around Nepal's Chitwan National Park. *Environmental Management*, 47(5), 727–738. <https://doi.org/10.1007/s00267-011-9631-6>
- Nowell, K., & Jackson, P. (1996). *Wild cats. Status Survey and Conservation Action Plan*. IUCN, Gland, Switzerland. Gland: International Union for Conservation of Nature and Natural Resources. <https://doi.org/10.1023/A:1008907403806>
- NTNC-BCC. (2016). *Status of Tiger and Preybase in Barandabhar Corridor Forest*. Chitwan: NTNC - Biodiversity Conservation Center.
- NTNC. (2018). National Trust for Nature Conservation - Projects. Retrieved from <http://ntnc.org.np/projects>
- Nyhus, P., Osofsky, S., Ferraro, P., Fischer, H., & Madden, F. (2005). Bearing the costs of human-wildlife conflict : The challenges of compensation schemes. In R. Woodroffe, S. Thirgood, & A. Rabinowitz (Eds.), *People and wildlife: Conflict or coexistence?* (pp. 107–121). Oxford: Oxford University Press. <https://doi.org/10.1017/CBO9780511614774>
- Odden, M., Wegge, P., & Fredriksen, T. (2010). Do tigers displace leopards? If so, why? *Ecological Research*, 25(4), 875–881. <https://doi.org/10.1007/s11284-010-0723-1>
- Otis, D. L., Burnham, K. P., White, G. C., & Anderson, D. R. (1978). Statistical Inference from Capture Data on Closed Animal Populations. *Wildlife Monographs*, 62, 3–135. <https://doi.org/10.2307/2287873>
- Packer, C., Swanson, A., Ikanda, D., & Kushnir, H. (2011). Fear of darkness, the full moon and the nocturnal ecology of African lions. *PLoS ONE*, 6(7), e22285. <https://doi.org/10.1371/journal.pone.0022285>

---

Pant, G., Dhakal, M., Pradhan, N. M. B., Leverington, F., & Hockings, M. (2016). Nature and extent of human-elephant *Elephas maximus* conflict in central Nepal. *Oryx*, 50(4), 724–731. <https://doi.org/10.1017/S0030605315000381>

Paudel Khatiwada, S., Deng, W., Paudel, B., Khatiwada, J., Zhang, J., & Su, Y. (2017). Household Livelihood Strategies and Implication for Poverty Reduction in Rural Areas of Central Nepal. *Sustainability*, 9(4), 612. <https://doi.org/10.3390/su9040612>

Paudel, P. K., & Heinen, J. T. (2015). Conservation planning in the Nepal Himalayas: Effectively (re)designing reserves for heterogeneous landscapes. *Applied Geography*, 56, 127–134. <https://doi.org/10.1016/j.apgeog.2014.11.018>

Persoon, G. A., & Lamichhane, B. R. (2017). Dinner time at the ‘Vulture Restaurant.’ Retrieved from <http://www.leidenanthropologyblog.nl/articles/the-vulture-restaurant>

Persoon, G. A., & Van Est, D. M. E. (2003). Co-management of natural resources: The concept and aspects of implementation. In G. A. Persoon, D. M. E. Van Est, & P. Sajise (Eds.), *Co-management of natural resources in Asia: A comparative perspective* (pp. 1–24). Copenhagen: Nordic Institute of Asian Studies.

Peterson, M. N., Birckhead, J. L., Leong, K., Peterson, M. J., & Peterson, T. R. (2010). Rearticulating the myth of human-wildlife conflict. *Conservation Letters*, 3(2), 74–82. <https://doi.org/10.1111/j.1755-263X.2010.00099.x>

Pokheral, C. P., & Wegge, P. (2018). Coexisting large carnivores : spatial relationships of tigers and leopards and their prey in a prey-rich area in lowland Nepal. *Écoscience*, 00(00), 1–9. <https://doi.org/10.1080/11956860.2018.1491512>

QGIS Development Team. (2016). QGIS Version 2.7. Retrieved from <http://www.qgis.org/en/site/>

R Core Team. (2017). R Development Core Team. *R: A Language and Environment for Statistical Computing*. R Core Team. <https://doi.org/http://www.R-project.org>

Rayan, D. M., & Linkie, M. (2016). Managing conservation flagship species in competition: Tiger, leopard and dhole in Malaysia. *Biological Conservation*, 204, 360-366. <https://doi.org/10.1016/j.biocon.2016.11.009>

Redpath, S. M., Bhatia, S., & Young, J. (2015). Tilting at wildlife: Reconsidering human-wildlife conflict. *Oryx*, 49(2), 222–225. <https://doi.org/10.1017/S0030605314000799>

Ridout, M. S., & Linkie, M. (2009). Estimating overlap of daily activity patterns from camera trap data. *Journal of Agricultural, Biological, and Environmental Statistics*, 14(3), 322–337. <https://doi.org/10.1198/jabes.2009.08038>

- Ripple, W. J., Estes, J. A., Beschta, R. L., Wilmers, C. C., Ritchie, E. G., Hebblewhite, M., ... Wirsing, A. J. (2014). Status and ecological effects of the world's largest carnivores. *Science*, 343(6167), 1241484. <https://doi.org/10.1126/science.1241484>
- Rosenzweig, M. L. (1966). Community Structure in Sympatric Carnivora. *Journal of Mammalogy*, 47(4), 602–612. <https://doi.org/10.2307/1377891>
- Sapkota, S., Aryal, A., Baral, S. R., Hayward, M. W., & Raubenheimer, D. (2014). Economic Analysis of Electric Fencing for Mitigating Human-wildlife Conflict in Nepal. *Journal of Resources and Ecology*, 5(3), 237–243. <https://doi.org/10.5814/j.issn.1674-764x.2014.03.006>
- Sayer, J. (1991). *Rainforest buffer zones: guidelines for protected area managers*. Gland: International Union for Conservation of Nature and Natural Resources.
- Schmiedel, U., Araya, Y., Bortolotto, M. I., Boeckenhoff, L., Hallwachs, W., Janzen, D., ... Toko, P. (2016). Contributions of paraecologists and parataxonomists to research, conservation, and social development. *Conservation Biology*, 30(3), 506–519. <https://doi.org/10.1111/cobi.12661>
- Schmitz, O. J., Hambäck, P. A., & Beckerman, A. P. (2000). Trophic Cascades in Terrestrial Systems: A Review of the Effects of Carnivore Removals on Plants. *The American Naturalist*, 155(2), 141–153. <https://doi.org/10.1086/303311>
- Seidensticker, J. (1976). On the Ecological Separation between Tigers and Leopards. *Biotropica*, 8(4), 225–234. <https://doi.org/10.2307/2989714>
- Seidensticker, J., Dinerstein, E., Goyal, S. P., Gurung, B., Harihar, A., Johnsingh, A. J. T., ... Wikramanayake, E. (2010). Tiger range collapse and recovery at the base of the Himalayas. In D. W. Macdonald & A. J. Loveridge (Eds.), *Biology and Conservation of Wild Felids* (pp. 305–324). Oxford: Oxford University Press.
- Sharma, S. M. (2015, September). Conservation trophies. *Nepali Times*. Retrieved from <http://archive.nepalitimes.com/article/review/is-trophy-hunting-okay-to-earn-revenue-for-conservation,2591>
- Sharma, U. R. (1990). An Overview of park-people interactions in Royal Chitwan National Park, Nepal. *Landscape and Urban Planning*, 19(2), 133–144. [https://doi.org/10.1016/0169-2046\(90\)90049-8](https://doi.org/10.1016/0169-2046(90)90049-8)
- Sharma, U. R. (1991). *Park-people interactions in Royal Chitwan National Park, Nepal*. PhD Thesis. The University of Arizona.
- Shrestha, M. K. (2004). *Relative ungulate abundance in a fragmented landscape: implications for tiger conservation*. PhD Thesis. University of Minnesota.

---

Shrestha, U. B., Shrestha, S., Chaudhary, P., & Chaudhary, R. P. (2010). How Representative is the Protected Areas System of Nepal? *Mountain Research and Development*, 30(3), 282–294. <https://doi.org/10.1659/MRD-JOURNAL-D-10-00019.1>

Silwal, T., Kolejka, J., Bhatta, B. P., Rayamajhi, S., Sharma, R. P., & Poudel, B. S. (2017). When, where and whom: Assessing wildlife attacks on people in Chitwan National Park, Nepal. *Oryx*, 51(2), 370–377. <https://doi.org/10.1017/S0030605315001489>

Silwal, T., Shrestha, B. P., Bhatta, B. P., & Devkota, B. P. (2013). Revenue distribution pattern and park-people conflict in Chitwan National Park, Nepal. *Banko Janakari*, 23(1), 35–41.

Simcharoen, A., Savini, T., Gale, G. A., Simcharoen, S., Duangchantrasiri, S., Pakpien, S., & Smith, J. L. D. (2014). Female tiger *Panthera tigris* home range size and prey abundance : Important metrics for management. *Oryx*, 48(3), 370–377. <https://doi.org/10.1017/S0030605312001408>

Simcharoen, A., Simcharoen, S., Duangchantrasiri, S., Bump, J., & Smith, J. L. D. (2018). Tiger and leopard diets in western Thailand: Evidence for overlap and potential consequences. *Food Webs*, 15, e00085. <https://doi.org/10.1016/j.fooweb.2018.e00085>

Smith, J. L. D. (1993). The role of dispersal in structuring the Chitwan tiger population. *Behaviour*, 124(3–4), 165–195. <https://doi.org/10.1163/156853993X00560>

Smith, J. L. D., & McDougal, C. (1991). The contribution of variance in lifetime reproduction to effective population size in tigers. *Conservation Biology*, 5(4), 484–490. <https://doi.org/10.1111/j.1523-1739.1991.tb00355.x>

Smith, J. L. D., McDougal, C., & Sunquist, M. E. (1989). Female land tenure system in tigers. In R. L. Tilson & U. S. Seal (Eds.), *Tigers of the World: the Biology, Biopolitics Management and Conservation of an Endangered Species* (pp. 97–109). Noyes, Park Ridge, New Jersey.

Smythies, E. A. (1942). *Big Game Shooting in Nepal: With Leaves from the Maharaja's Sporting Diary*. London: Thacker, Spink.

Spiteri, A., & Nepal, S. K. (2008). Distributing conservation incentives in the buffer zone of Chitwan National Park, Nepal. *Environmental Conservation*, 35(1), 76–86. <https://doi.org/10.1017/S0376892908004451>

Srivaths, A., Parameshwaran, R., Sharma, S., & Karanth, K. U. (2015). Estimating population sizes of leopard cats in the Western Ghats using camera surveys. *Journal of Mammalogy*, 96(4), 742–750. <https://doi.org/10.1093/jmammal/gv079>

Stapp, J. R., Lilieholm, R. J., Leahy, J., & Upadhyaya, S. (2016). Linking Attitudes, Policy, and Forest Cover Change in Buffer Zone Communities of Chitwan National Park, Nepal. *Environmental Management*, 57(6), 1292–1303. <https://doi.org/10.1007/s00267-016-0682-6>

- Stein, A. B., Athreya, V., Gerngross, P., Balme, G., Henschel, P., Karanth, U., ... Khorozyan, I. Ghoddousi, A. (2018). *Panthera pardus*. <https://doi.org/10.2305/IUCN.UK.2016-1.RLTS.T15954A50659089.en>
- Subedi, N. (2012). *Effect of Mikania micrantha on the demography, habitat use, and nutrition of Greater One-horned Rhinoceros in Chitwan National Park, Nepal*. PhD Thesis. Wildlife Institute of India.
- Subedi, N., Jnawali, S. R., Dhakal, M., Pradhan, N. M. B., Lamichhane, B. R., Malla, S., ... Jhala, Y. V. (2013). Population status, structure and distribution of the greater one-horned rhinoceros *Rhinoceros unicornis* in Nepal. *Oryx*, 47(3), 352–360. <https://doi.org/10.1017/S0030605313000562>
- Subedi, N., Lamichhane, B. R., Amin, R., Jnawali, S. R., & Jhala, Y. V. (2017). Demography and viability of the largest population of greater one-horned rhinoceros in Nepal. *Global Ecology and Conservation*, 12, 241–252. <https://doi.org/10.1016/j.gecco.2017.11.008>
- Sunquist, F., & Sunquist, M. (2002). *Wild Cats of the World*. Chicago: University of Chicago Press.
- Sunquist, M. (2010). What Is a Tiger? Ecology and Behavior. In *Tigers of the World* (pp. 19–33). <https://doi.org/10.1016/B978-0-8155-1570-8.00002-5>
- Sunquist, M. E. (1981). The Social Organization of Tigers (*Panthera Tigris*) in Royal Chitawan National Park, Nepal. *Smithsonian Contributions to Zoology*, (336), 1–98. <https://doi.org/10.5479/si.00810282.336>
- Swan, G. J. F., Redpath, S. M., Bearhop, S., & McDonald, R. A. (2017). Ecology of Problem Individuals and the Efficacy of Selective Wildlife Management. *Trends in Ecology and Evolution*, 32(7), 518–530. <https://doi.org/10.1016/j.tree.2017.03.011>
- Thapa, K., & Kelly, M. J. (2017). Density and carrying capacity in the forgotten tigerland: Tigers in the understudied Nepalese Churia. *Integrative Zoology*, 12(3), 211–227. <https://doi.org/10.1111/1749-4877.12240>
- Thapa, K., Shrestha, R., Karki, J., Thapa, G. J., Subedi, N., Pradhan, N. M. B., ... Kelly, M. J. (2014). Leopard *Panthera pardus fusca* Density in the Seasonally Dry, Subtropical Forest in the Bhabhar of Terai Arc, Nepal. *Advances in Ecology*, 2014, 1–12. <https://doi.org/10.1155/2014/286949>
- Thapa, T. B. (2011). *Habitat Suitability Evaluation for Leopard (Panthera Pardus) Using Remote Sensing and GIS in and Around Chitwan National Park, Nepal*. PhD Thesis. Saurastra University. Retrieved from [http://etheses.saurashtrauniversity.edu/563/1/thapa\\_tb\\_thesis\\_wild\\_science.pdf](http://etheses.saurashtrauniversity.edu/563/1/thapa_tb_thesis_wild_science.pdf)

- 
- Traill, L. W., Martin, J., & Owen-Smith, N. (2016). Lion proximity, not moon phase, affects the nocturnal movement behaviour of zebra and wildebeest. *Journal of Zoology*, 299(3), 221–227. <https://doi.org/10.1111/jzo.12343>
- Treves, A., & Karanth, K. U. (2003). Human-Carnivore Conflict and Perspectives on Carnivore Management Worldwide. In *Conservation Biology* (Vol. 17, pp. 1491–1499). <https://doi.org/10.1111/j.1523-1739.2003.00059.x>
- Treves, A., Wallace, R. B., Naughton-Treves, L., & Morales, A. (2006). Co-managing human-wildlife conflicts: A review. *Human Dimensions of Wildlife*, 11(6), 383–396. <https://doi.org/10.1080/10871200600984265>
- Treves, A., Wallace, R. B., & White, S. (2009). Participatory planning of interventions to mitigate human-wildlife conflicts. *Conservation Biology*, 23(6), 1577–1587. <https://doi.org/10.1111/j.1523-1739.2009.01242.x>
- Tumenta, P. N. (2012). *A lion population under threat: understanding lion (Panthera leo Linnaeus, 1758) ecology and human-lion interactions related to livestock predation in Waza National Park, Cameroon*. PhD Thesis. Leiden University. Retrieved from <https://openaccess.leidenuniv.nl/bitstream/handle/1887/20266/06.pdf>
- Turner, A., & Anton, M. (1997). *The big cats and their fossil relatives: an illustrated guide to their evolution and natural history*. New York: Columbia University Press.
- UNESCO. (2003). *UNESCO – IUCN Enhancing Our Heritage Project : Monitoring and Managing for Success in Natural World Heritage Sites Initial Management Effectiveness Evaluation Report : Royal Chitwan National Park, Nepal*. Paris.
- Upadhyaya, S. K., Musters, C. J. M., Lamichhane, B. R., de Snoo, G. R. de, Thapa, P., Dhakal, M., ... de longh, H. H. (2018). An insight into the diet and prey preference of tigers in Bardia National Park, Nepal. *Tropical Conservation Science*, 11, 1940082918799476.
- Van Bommel, L., Bij De Vaate, M. D., De Boer, W. F., & De longh, H. H. (2007). Factors affecting livestock predation by lions in Cameroon. *African Journal of Ecology*, 45(4), 490–498. <https://doi.org/10.1111/j.1365-2028.2007.00759.x>
- Verma, M., Negandhi, D., Khanna, C., Edgaonkar, A., David, A., Kadekodi, G., ... Kumar, S. (2017). Making the hidden visible: Economic valuation of tiger reserves in India. *Ecosystem Services*, 26, 236–244. <https://doi.org/10.1016/j.ecoser.2017.05.006>
- Walston, J., Robinson, J. G., Bennett, E. L., Breitenmoser, U., da Fonseca, G. A. B., Goodrich, J., ... Wibisono, H. (2010). Bringing the tiger back from the brink-the six percent solution. *PLoS Biology*, 8(9), e100048. <https://doi.org/10.1371/journal.pbio.1000485>

- Wang, S. W., & Macdonald, D. W. (2009). Feeding habits and niche partitioning in a predator guild composed of tigers, leopards and dholes in a temperate ecosystem in central Bhutan. *Journal of Zoology*, 277(4), 275–283. <https://doi.org/10.1111/j.1469-7998.2008.00537.x>
- Wang, S. W., & Macdonald, D. W. (2009). The use of camera traps for estimating tiger and leopard populations in the high altitude mountains of Bhutan. *Biological Conservation*, 142(3), 606–613. <https://doi.org/10.1016/j.biocon.2008.11.023>
- Weber, W., & Rabinowitz, A. (1996). A Global Perspective on Large Carnivore Conservation. *Conservation Biology*, 10(4), 1046–1054. <https://doi.org/10.1046/j.1523-1739.1996.10041046.x>
- Wegge, P., Pokheral, C. P., & Jnawali, S. R. (2004). Effects of trapping effort and trap shyness on estimates of tiger abundance from camera trap studies. *Animal Conservation*, 7(3), 251–256. <https://doi.org/10.1017/S1367943004001441>
- Wegge, P., Yadav, S. K., & Lamichhane, B. R. (2018). Are corridors good for tigers *Panthera tigris* but bad for people? An assessment of the Khata corridor in lowland Nepal. *Oryx*, 52(1), 35–45. <https://doi.org/10.1017/S0030605316000661>
- Wikramanayake, E., Dinerstein, E., Robinson, J. G., Karanth, U., Rabinowitz, A., Olson, D., ... Bolze, D. (1998). An Ecology-Based Method for Defining Priorities for Large Mammal Conservation: The Tiger as Case Study. *Conservation Biology*, 12(4), 865–878. <https://doi.org/10.1111/j.1523-1739.1998.96428.x>
- Wikramanayake, E., Manandhar, A., Bajimaya, S., Nepal, S., Thapa, G., & Thapa, K. (2010). The Terai Arc Landscape: A Tiger Conservation Success Story in a Human-dominated Landscape. In R. Tilson & P. J. Nyhus (Eds.), *Tigers of the World* (pp. 163–173). <https://doi.org/10.1016/B978-0-8155-1570-8.00010-4>
- Wikramanayake, E., McKnight, M., Dinerstein, E., Joshi, A., Gurung, B., & Smith, D. (2004). Designing a conservation landscape for tigers in human-dominated environments. *Conservation Biology*, 18(3), 839–844. <https://doi.org/10.1111/j.1523-1739.2004.00145.x>
- Woodroffe, R., Thirgood, S., & Rabinowitz, A. (2005). The impact of human – wildlife conflict on natural systems. In R. Woodroffe, S. Thirgood, & A. Rabinowitz (Eds.), *People and Wildlife, Conflict or Co-existence?* (pp. 1–12). Oxford University Press.
- World Bank. (2016). The World Bank DataBank. Retrieved from <http://databank.worldbank.org/data/home.aspx>
- Xu, J., Grumbine, R. E., Shrestha, A., Eriksson, M., Yang, X., Wang, Y., & Wilkes, A. (2009). The melting Himalayas: Cascading effects of climate change on water, biodiversity, and livelihoods. *Conservation Biology*, 23(3), 520–530. <https://doi.org/10.1111/j.1523-1739.2009.01237.x>
- Zuur, A. F., Ieno, E. N., Walker, N. J., Saveliev, A. a, & Smith, G. M. (2009). *Mixed Effects Models and Extensions in Ecology with R: Statistics for Biology and Health*. (M. Gail, K. Krickeberg, J. M. Samet, A. Tsiatis, & W. Wong, Eds.). New York: Springer. <https://doi.org/10.1007/978-0-387-87458-6>

