## A Partial List of Scientific Literature Relevant to *Through the Climate Looking Glass into Grizzly Wonderland*

### *Key Literature Covering Effects of Climate on Grizzly Bears and Their Foods*


Berman, E. E., Coops, N. C., Kearney, S. P., & Stenhouse, G. B. (2019). Grizzly bear response to fine spatial and temporal scale spring snow cover in Western Alberta. *PloS one*, 14(4), e0215243.

Bojarska, K., & Selva, N. (2012). Spatial patterns in brown bear *Ursus arctos* diet: the role of geographical and environmental factors. *Mammal Review*, 42(2), 120-143.

Deacy, W. W., Armstrong, J. B., Leacock, W. B., Robbins, C. T., Gustine, D. D., Ward, E. J., ... & Stanford, J. A. (2017). Phenological synchronization disrupts trophic interactions between Kodiak brown bears and salmon. *Proceedings of the National Academy of Sciences*, 114(39), 10432-10437.

Henkelmann, A. (2011). Predictive modeling of Alaskan brown bears (Ursus arctos): assessing future climate impacts with open access online software. M.S. Thesis, Georg-August-Universität Göttingen, Germany.

Hertel, A. G., Bischof, R., Langval, O., Mysterud, A., Kindberg, J., Swenson, J. E., & Zedrosser, A. (2018). Berry production drives bottom–up effects on body mass and reproductive success in an omnivore. *Oikos*, 127(2), 197-207.

Laskin, D. N., McDermid, G. J., Nielsen, S. E., Marshall, S. J., Roberts, D. R., & Montaghi, A. (2019). Advances in phenology are conserved across scale in present and future climates. *Nature Climate Change*, 9(5), 419.

Mattson, D. J., & Reid, M. M. (1991). Conservation of the Yellowstone grizzly bear. *Conservation Biology*, 5(3), 364-372.

Mattson, D. J. (2000). Causes and Consequences of Dietary Differences among Yellowstone Grizzly Bears (*Ursus arctos*). Ph.D. Dissertation, University of Idaho, Moscow, Idaho.

Matsuhashi, T., Masuda, R., Mano, T., Murata, K., & Aiurzaniin, A. (2001). Phylogenetic relationships among worldwide populations of the brown bear *Ursus arctos*. *Zoological Science*, 18(8), 1137-1144.

McLellan, M. L., & McLellan, B. N. (2015). Effect of season and high ambient temperature on activity levels and patterns of grizzly bears (*Ursus arctos*). *PloS one*, 10(2), e0117734.

Penteriani, V., Zarzo-Arias, A., Novo-Fernández, A., Bombieri, G., & López-Sánchez, C. A. (2019). Responses of an endangered brown bear population to climate change based on predictable food resource and shelter alterations. *Global Change Biology*, 25(3), 1133-1151.

Picton, H. D. (1978). Climate and reproduction of grizzly bears in Yellowstone National Park. *Nature*, 274(5674), 888.

Picton, H. D., & Knight, R. R. (1986). Using climate data to predict grizzly bear litter size. *International Conference of Bear Research & Management*, 6, 41-44.

Picton, H. D., Mattson, D. J., Blanchard, B. M., & Knight, R. R. (1986). Climate, carrying capacity and the Yellowstone grizzly bear. Pages 129-135 *in* Proceedings of the Grizzly Bear Habitat Symposium. USDA Forest Service, General Technical Report INT-207.

Roberts, D. R., Nielsen, S. E., & Stenhouse, G. B. (2014). Idiosyncratic responses of grizzly bear habitat to climate change based on projected food resource changes. *Ecological Applications*, 24(5), 1144-1154.

Rogers, S. A. (2019). Climatic Constraints on Energy Balance, Behavior and Spatial Distribution of Grizzly Bears. M.S. Thesis, University of Idaho, Moscow, Idaho.

Servheen, C., & Cross, M. (2010). Climate change impacts on grizzly bears and wolverines in the northern U.S. and transboundary Rockies: strategies for conservation. Workshop report.

Su, J., Aryal, A., Hegab, I. M., Shrestha, U. B., Coogan, S. C., Sathyakumar, S., ... & Fu, H. (2018). Decreasing brown bear (*Ursus arctos*) habitat due to climate change in Central Asia and the Asian Highlands. *Ecology & Evolution*, 8(23), 11887-11899.

### *Key Literature Linking Variation in Pleistocene Environments to Distributions of* **Ursus arctos**

Anijalg, P., Ho, S. Y., Davison, J., Keis, M., Tammeleht, E., Bobowik, K., ... & Markov, N. I. (2018). Large-scale migrations of brown bears in Eurasia and to North America during the Late Pleistocene. *Journal of Biogeography*, 45(2), 394-405.

Barnes, I., Matheus, P., Shapiro, B., Jensen, D., & Cooper, A. (2002). Dynamics of Pleistocene population extinctions in Beringian brown bears. *Science*, 295(5563), 2267-2270.

Davison, J., Ho, S. Y., Bray, S. C., Korsten, M., Tammeleht, E., Hindrikson, M., ... & Cooper, A. (2011). Late-Quaternary biogeographic scenarios for the brown bear (*Ursus arctos*), a wild mammal model species. *Quaternary Science Reviews*, 30(3-4), 418-430.

Ersmark, E., Baryshnikov, G., Higham, T., Argant, A., Castaños, P., Döppes, D., ... & Marciszak, A. (2019). Genetic turnovers and northern survival during the last glacial maximum in European brown bears. *Ecology & Evolution*, 9(10), 5891-5905.

García-Vázquez, A., Pinto Llona, A. C., & Grandal-d'Anglade, A. (2019). Post-glacial colonization of Western Europe brown bears from a cryptic Atlantic refugium out of the Iberian Peninsula. *Historical Biology*, 31(5), 618-630.

Hirata, D., Abramov, A. V., Baryshnikov, G. F., & Masuda, R. (2014). Mitochondrial DNA haplogrouping of the brown bear, *Ursus arctos* (Carnivora: Ursidae) in Asia, based on a newly developed APLP analysis. *Biological journal of the Linnean Society*, 111(3), 627-635.

Sommer, R. S., & Benecke, N. (2005). The recolonization of Europe by brown bears *Ursus arctos* Linnaeus, 1758 after the Last Glacial Maximum. *Mammal Review*, 35(2), 156-164.

Valdiosera, C. E., García, N., Anderung, C., Dalén, L., Crégut-Bonnoure, E., Kahlke, R. D., ... & Götherström, A. (2007). Staying out in the cold: glacial refugia and mitochondrial DNA phylogeography in ancient European brown bears. *Molecular Ecology*, 16(24), 5140-5148.

### *Key Literature Pertaining to Relations between Environments & Grizzly Bear Densities*

McLoughlin, P. D. (2102). COSEWIC assessment and status report on the Grizzly Bear *Ursus arctos* in Canada. Committee on the Status of Endangered Wildlife in Canada. Ottawa.

Miller, S. D., White, G. C., Sellers, R. A., Reynolds, H. V., Schoen, J. W., Titus, K., ... & Schwartz, C. C. (1997). Brown and black bear density estimation in Alaska using radiotelemetry and replicated mark-resight techniques. *Wildlife Monographs*, 3-55.

Mowat, G., Hears, D. C., & Gaines, T. (2004). Predicting grizzly bear (*Ursus arctos*) densities in British Columbia using a multiple regression model. British Columbia Ministry of Land, Water and Air Protection, Victoria, British Columbia.

Mowat, G., Heard, D. C., & Schwarz, C. J. (2013). Predicting grizzly bear density in western North America. PLoS One, 8(12), e82757.

### *A Sampler of Literature Pertaining to End-Permian Extinctions*

Black, B. A., Lamarque, J. F., Shields, C. A., Elkins-Tanton, L. T., & Kiehl, J. T. (2014). Acid rain and ozone depletion from pulsed Siberian Traps magmatism. *Geology*, 42(1), 67-70.

Black, B. A., Neely, R. R., Lamarque, J. F., Elkins-Tanton, L. T., Kiehl, J. T., Shields, C. A., ... & Bardeen, C. (2018). Systemic swings in end-Permian climate from Siberian Traps carbon and sulfur outgassing. *Nature Geoscience*, 11(12), 949.

Burgess, S. D., Bowring, S., & Shen, S. Z. (2014). High-precision timeline for Earth's most severe extinction. *Proceedings of the National Academy of Sciences*, 111(9), 3316-3321.

Cui, Y., & Kump, L. R. (2015). Global warming and the end-Permian extinction event: Proxy and modeling perspectives. *Earth-Science Reviews*, 149, 5-22.

Kiehl, J. T., & Shields, C. A. (2005). Climate simulation of the latest Permian: Implications for mass extinction. *Geology*, 33(9), 757-760.

Kump, L. R., Pavlov, A., & Arthur, M. A. (2005). Massive release of hydrogen sulfide to the surface ocean and atmosphere during intervals of oceanic anoxia. *Geology*, 33(5), 397-400.

Montenegro, A., Spence, P., Meissner, K. J., Eby, M., Melchin, M. J., & Johnston, S. T. (2011). Climate simulations of the Permian-Triassic boundary: Ocean acidification and the extinction event. *Paleoceanography & Paleoclimatology*, 26(3), PA3207.

Penn, J. L., Deutsch, C., Payne, J. L., & Sperling, E. A. (2018). Temperature-dependent hypoxia explains biogeography and severity of end-Permian marine mass extinction. *Science*, 362(6419), eaat1327.

Rothman, D. H., Fournier, G. P., French, K. L., Alm, E. J., Boyle, E. A., Cao, C., & Summons, R. E. (2014). Methanogenic burst in the end-Permian carbon cycle. *Proceedings of the National Academy of Sciences*, 111(15), 5462-5467.

Shen, J., Chen, J., Algeo, T. J., Yuan, S., Feng, Q., Yu, J., ... & Planavsky, N. J. (2019). Evidence for a prolonged Permian–Triassic extinction interval from global marine mercury records. *Nature Communications*, 10(1), 1563.

Shen, S. Z., Crowley, J. L., Wang, Y., Bowring, S. A., Erwin, D. H., Sadler, P. M., ... & Zhang, H. (2011). Calibrating the end-Permian mass extinction. *Science*, 334(6061), 1367-1372.

Shen, S. Z., Ramezani, J., Chen, J., Cao, C. Q., Erwin, D. H., Zhang, H., ... & Bowring, S. A. (2018). A sudden end-Permian mass extinction in South China. *GSA Bulletin*, 131(1-2), 205-223.

Sun, Y., Joachimski, M. M., Wignall, P. B., Yan, C., Chen, Y., Jiang, H., ... & Lai, X. (2012). Lethally hot temperatures during the Early Triassic greenhouse. *Science*, 338(6105), 366-370.

Svensen, H., Planke, S., Polozov, A. G., Schmidbauer, N., Corfu, F., Podladchikov, Y. Y., & Jamtveit, B. (2009). Siberian gas venting and the end-Permian environmental crisis. *Earth & Planetary Science Letters*, 277(3-4), 490-500.

Van Soelen, E. E., Twitchett, R., & Kürschner, W. M. (2018). Salinity changes and anoxia resulting from enhanced run-off during the late Permian global warming and mass extinction event. *Climate of the Past*, 14, 441-453.