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(2002) Postglacial flooding of the Bering Land Bridge: A geospatial animation: INSTAAR, University of Colorado, vol. 1, http://instaar.colorado.edu/QGISL/bering_land_bridge; Abbott, M.B., B.P. Finney, M.E. Edwards, and K.R. Kelts (2000) Lake-level reconstruction and paleohydrology of Birch Lake, central Alaska, based on seismic reflection profiles and core transects. *Quaternary Research*, vol. 53, p. 154–166; and Hu, F.S., B.Y. Lee, D.S. Kaufman, S. Yoneji, D.M. Nelson, and P.D. Henne (2002) Response of tundra ecosystem in southwestern Alaska to Younger Dryas climatic oscillations. *Global Change Biology*, vol. 8, p. 1156–1163. Page 53 (bottom right): Modified from Hu, F.S., E. Ito, T.A. Brown, B.B. Curry, and D.R. Engstrom (2001) Pronounced climatic variations during the last two millennia in the Alaska Range. *Proceedings of the National Academy of Sciences*, vol. 98, p. 10552–10556. Page 54: Modified from Kaplan, M.R., A.P. Wolfe, and G.W. 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