962-39-46 Michael A. Radin\* (mradin@math.uri.edu), University of Rhode Island, Department of Mathematics, Kingston, RI 02881, Hamdi El-Metwally (hamdi@math.uri.edu), University of Rhode Island, Department of Mathematics, Kingston, RI 02881, Edward A Grove (grove@math.uri.edu), University of Rhode Island, Department of Mathematics, Kingston, RI 02881, Gerry Ladas (gladas@math.uri.edu), University of Rhode Island, Department of Mathematics, Kingston, RI 02881, and Richard Levins (humaneco@biostat.harvard.edu), Harvard School of Public Health, Department of Population Science, 665 Huntington Avenue, Boston, MA 02115. On the Difference Equation  $x_[n + 1] = a + bx_[n - 1]e^{-x_[n]}$ , n = 0, 1, 2, ...

We study the global stability, the boundedness nature, and the periodic character of the positive solutions of the difference equation  $x_{[n+1]} = a + bx_{[n-1]}e^{-x_{[n]}}$ , n = 0, 1, 2, ... which may be interesting in its own right, but which may be viewed a describing a population model. (Received July 05, 2000)