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Paul T. Allen* (ptallen@clark.edu), Department of Mathematical Sciences, MSC 110, Lewis & Clark College, 0615 SW Palatine Hill Road, Portland, OR 97219, and **K Tsukahara** and **A Layne**. *The Dirichlet problem for the curve shortening flow in convex domains.*

We study the Dirichlet problem for the curve shortening flow in convex regions of the Euclidean plane and round sphere. We establish a version of Huisken's distance comparison estimate on the sphere, which is used to establish global existence for the flow of initially embedded curves. (Received June 30, 2011)