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Erika A Olson* (eolson1@nd.edu), 255 Hurley Hall, Notre Dame, IN 46556-4618. *Non-uniform dependence on initial data for a family of nonlinear evolution equations.* Preliminary report.

We shall consider the periodic Cauchy problem for a generalized form of the Fokas-Fuchssteiner-Camassa-Holm equation and show that solutions do not depend uniformly continuously on initial data in the Sobolev spaces of index 1 or index 2 or greater. (Received January 25, 2006)