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Jerry L. Bona\* (bona@math.uic.edu), University of Illinois at Chicago, Dept Math, Statistics & Comp Science, 851 S. Morgan Street MC 249, Chicago, IL 60601, and Jean-Claude Saut (jean-claude.saut@math.u-psud.fr), Universite de Paris - Sud, Departement de Mathematiques, Batiment 425, 91405 Orsay, France. Ill posedness for water wave models with applications to the possible generation of Rogue Waves. Preliminary report.

We discuss dispersive blow-up phenomena connected with various water waves models and comment on its relevance to rogue wave generation. (Received February 02, 2006)