1099-35-186   **Mihaela Ifrim** (`ifrim@math.berkeley.edu`) and **Daniel Tataru***
(`tataru@math.berkeley.edu`). *Global solutions for two dimensional gravity water waves.*

We consider the infinite depth water wave equation in two space dimensions in the presence of gravity. We consider this problem expressed in position-velocity potential holomorphic coordinates, and prove that small localized data leads to global solutions. This improves and simplifies earlier results on this problem. (Received February 07, 2014)