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Vanderbilt University, Nashville, TN 37240, and David G Ebin, Department of Mathematics,
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We study the incompressible free boundary Euler equations with surface tension in three spatial dimensions. After establishing local well-posedness of the equations, we show that, under natural hypotheses, solutions are near those of the Euler equations in a fixed domain if the surface tension is sufficiently large. (Received December 18, 2015)