

A SYNTHESIS OF THE DISTRIBUTION OF SUBMARINE MASS MOVEMENTS ON THE EASTERN CANADIAN MARGIN

D. J.W. PIPER and C. McCALL

Geological Survey of Canada (Atlantic), Bedford Institute of Oceanography, P.O. Box 1006, Dartmouth, Nova Scotia, B2Y 4A2, Canada

Abstract

Published accounts and unpublished multibeam bathymetry and seismic-reflection profiles have been used to assemble a G.I.S. database documenting the geographic extent of surface and buried Quaternary submarine mass movements on the eastern Canadian margin. These range from small failures in fiords to enormous mass-transport deposits on the continental rise. The patterns of distribution are interpreted in terms of failure processes and large scale physiographic, geologic and glaciologic variability.

J. Locat, J. Mienert (eds), 2003, *Submarine Mass Movements and their Consequences 1st International Symposium*, Kluwer Academic Publishers, 291-298.