
**Comparison of Late Holocene and Pleistocene
sedimentologic and oceanographic records in the
Amundsen Gulf, Northwest Territories, Canada**

TAMARA MOSS

*Department of Earth Sciences, Dalhousie University,
Halifax, NS B3H 3J5*

Analysis of surface sediment from two box cores from Canadian Arctic Shelf Exchange Study (CASES) stations 403B (59 m) and 415B (56 m) located in the Amundsen Gulf will expose the sedimentologic and oceanographic records of the area. Deep-sea Arctic benthic foraminiferal assemblages of the Late Holocene (403B) and Pleistocene (415B) will be compared to show differences in foraminifera between an environment of high sedimentation and an area of low sedimentation with glacial evidence. This contrast will provide insight into glacial records and arctic productivity.

Potential impacts on the Arctic ecosystem need to be explored, since the Arctic is most vulnerable to changes in climate. This study will add to the assessment of the effects that presently influence sea ice cover which are important in the understanding of the coastal shelf regions of the Arctic and its productivity