Submarine Landslides at the Siberian End of Lomonosov Ridge, Arctic Ocean

Ursula Schlager, Wilfried Jokat und Estella Weigelt (Alfred-Wegener-Institut)

Introduction:

The Lomonosov Ridge is a topographic ridge in the Arctic Ocean. It rises several kilometres above the adjacent abyssal plains and, therefore, influences ocean current systems^[1] and its shallow parts (<1200m) were affected by glaciogenic processes^[2].

Due to difficult sea ice conditions prevailing in the Arctic Ocean sparse high resolution data exists from Lomonosov Ridge to describe its topography and subsurface geology. This contribution presents systematic swath bathymetry, sediment echo sounder and multichannel seismic data from the Siberian end of the Lomonosov Ridge^[3]. The data fully imaged submarine landslides on the ridge's crest. studied



Results:





References:

[1] Woodgate et al., https://doi.org/10.1016/S0967-0637(00)00091-1 [2] Stein et al., https://doi.org/10.1038/ncomms11148 [5] Canals, M., et al., https://doi.org/10.1016/j.margeo.2004.10.001 [3] Stein, https://doi.org/10.2312/BzPM 0688 2015



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