

Abstract Submitted  
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**Using Seismology to Map and Characterize the Glacial Bed in the Onset Region of Ice Stream D, West Antarctica** BRIDGET MCEWEN — Climate change has affected the flow of ice streams in the West Antarctic Ice Sheet (WAIS). In order to predict the future behavior of the ice streams in the WAIS, an understanding and characterization of the glacial bed is necessary. From analyzing the strength of the seismic reflection of the bed, information can be extracted about the composition of the bed, such as the reflection coefficient. Evidence from previous investigation has determined that the bed under Ice Stream D is composed of glacial till. Results from further research support the previous research. Future research on Ice Stream D could help explain and predict flow behavior and how this will affect the drainage and the future of the WAIS.

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