

Ancient Ice Buried Below a Meter of Regolith; Ong Valley, Antarctica

University of North Dakota, Berkeley Geochronology Center, and Vanderbilt University



We have discovered and cored a massive buried ice mass in Ong Valley located in the Transantarctic Mountains, Antarctica. The ice mass has been dated to be greater than 1.1 Ma, making this one of Earth's oldest ice masses. We determine the age of the ice directly by dating the dirt suspended within the ice and by dating the till layer covering the ice using numerous cosmogenic nuclides: ^{10}Be , ^{26}Al , and ^{21}Ne .



Visitor: Marie Bergelin

Visit dates: April 5 - April 23, 2021

Marie Bergelin is a Ph.D. student at University of North Dakota. She is originally from Copenhagen, Denmark and has been in the United States for the past 12 years. She enjoys outdoor activities such as hiking, running, biking, and paddle boarding.