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Sub-glacial Drilling using the IDP Winkie Drill

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The IDP Winkie Drill have deployed to two Antarctic field seasons. The first successful deployment was to the Ohio Range during the 2016-2017 field season where it recovered subglacial bedrock from five boreholes ranging in depth from 12.0 to 28.3 meters using the standard AW34 coring tools. Access boreholes were created with modified Kovacs 2-inch augers. The drill was deployed to the Ong Valley in 2017-2018 and successfully collected two mixed media cores from the surface to depths of 9.5 and 12.4 meters. The Ong Valley cores were collected with over-sized barrels resulting in cores of 71.7 mm. This presentation describes the system performance and results of the expeditions, as well as lessons learned.

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