

The 8th International Ice Drill Symposium



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Wet drilling with a modified 82mm ECLIPSE drill

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A modified 82mm ECLIPSE ice coring drill was used to drill to 260m on the Antarctic coast near the Princess Elisabeth Station during the 2018-2019 season. The drill was modified to operate in Estisol fluid, including the use of a booster pump, pressure seals, and borehole bail. Switching between dry and wet operation can be accomplished in minutes. Core quality through the troublesome 100m level was good. We will discuss the drill design and operation, including core log, penetration rates, drill maintenance, core handling, and planned future improvements. The presentation will include a short video.

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