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Restarting EastGRIP

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The objective of the East Greenland Ice-core Project (EastGRIP) is to retrieve a continuous ice core from Northeast Greenland Ice Stream. The core will reveal new and fundamental information about the ice stream that will be used to further our understanding of how ice streams will contribute to future sea-level change.

EastGRIP camp opened in 2015 and has been operational every summer consecutively from 2015 to 2019. The impacts of the COVID19 pandemic forced the station to be unmanned for 2 years, 2020 and 2021. The duration of the camp closure has added new considerations and challenges that need to be mitigated before drilling can continue.

This talk will present the specific considerations, mitigations, and results from the field. The list also includes challenges that are not related to the delay in field work but existed at the end of drilling in 2019. Anticipated challenges/mitigations include but are not limited to:

Challenge.....Mitigration
Drill and Science Trence Closure.....Contingency Time Built into Field Plan
Shifting of Drill Equipment.....Time dedicated to Reposition Winch & Tower
High Core Break Tension.....New Winch Motor & Controller.
Shift in Personnel/Loss of Knowledge.....Lean on Int. Collaboration and Sharing Knowledge
Drill Cable Thinning.....Replace Cable
Inclination Correction (not replicate).....Sensors & Springs

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