

GreenTrACS2 Traverse With Arctic Trucks; Summer 2022/3?

Osterberg, Hawley, Marshall, Winski, Tedesco



Recent Surface Mass Balance of Greenland

Research Questions

- How has intensified summertime blocking affected snowfall and melt in northern vs. southern Greenland?
 - Hawley et al., 2014; Osterberg et al., 2015; Wong et al., 2015; Lewis et al., 2017, 2019, in review; Graeter et al., 2018
- How and why has surface melt changed since the peak in 2012? How is the firn evolving with this change in melt?
- How well do the latest generation of RCMs capture recent changes and spatial patterns in snowfall and melt?
 - 2-3 km resolution. Statistical downscaling to get down to ~100 m res.
- Where is the best location to drill deep (to bedrock), community ice cores in NW and South Greenland?
 - Candidate sites near Camp Century and South Dome (ICWG White Paper, 2020)

Proposal: GreenTrACS2 Traverse With Arctic Trucks Summer 2022/3?

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**ARCTIC
TRUCKS**

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EXPLORE WITHOUT LIMITS

We create vehicles designed to stretch horizons,
to access the most remote environments on
earth and working the most hostile conditions.



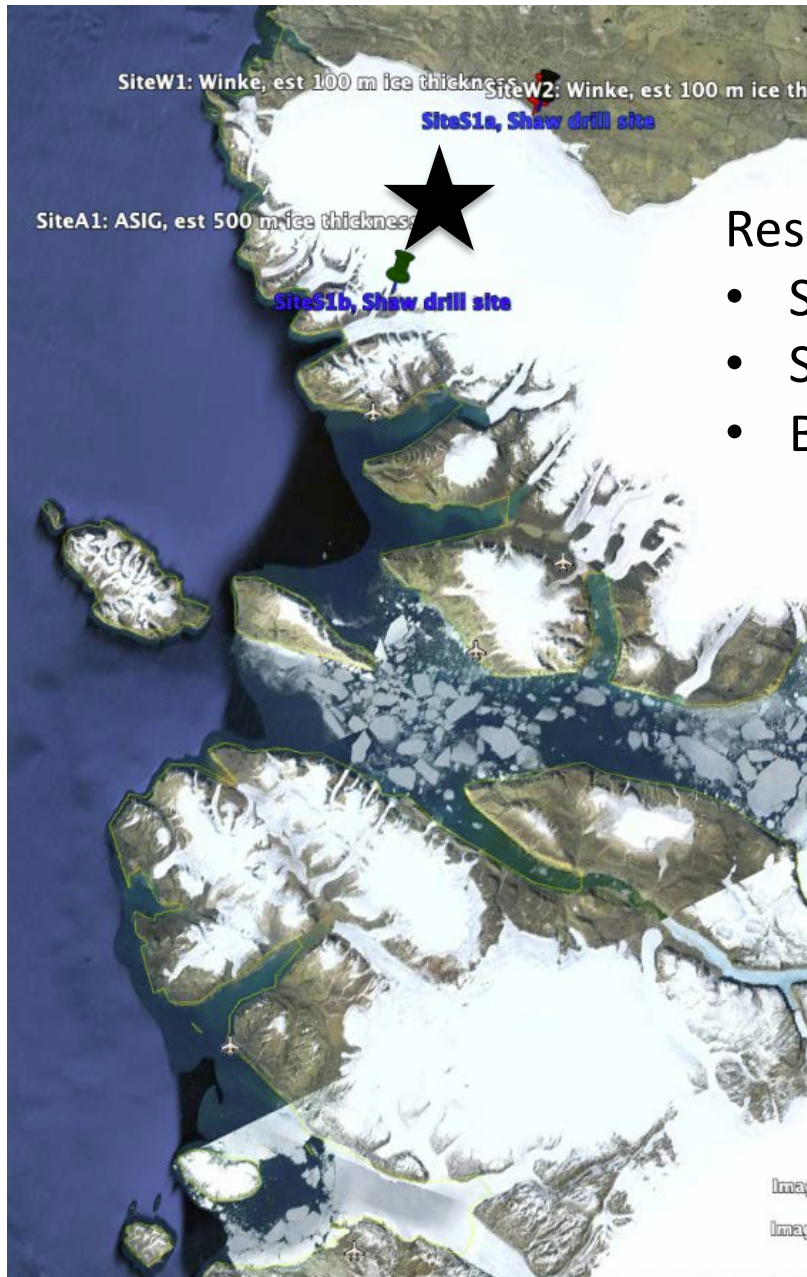
Prudhoe Dome: Climate Forcing and Cryospheric Response during Rapid Change and Holocene Warmth

Osterberg, Winski, Koffman, Kreutz, Buizert, Alexander



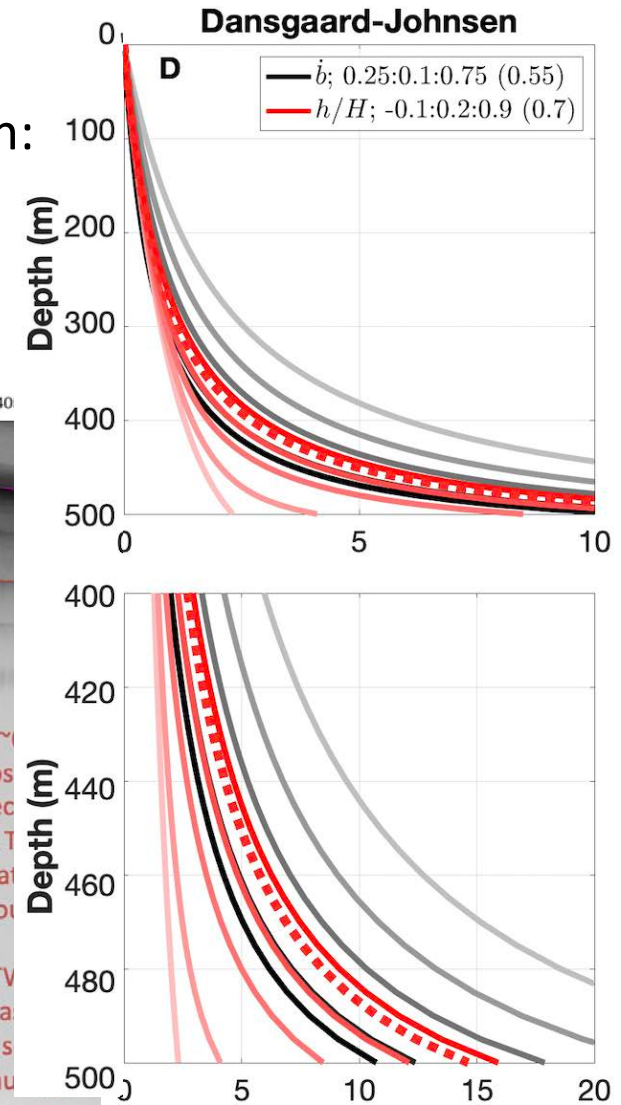
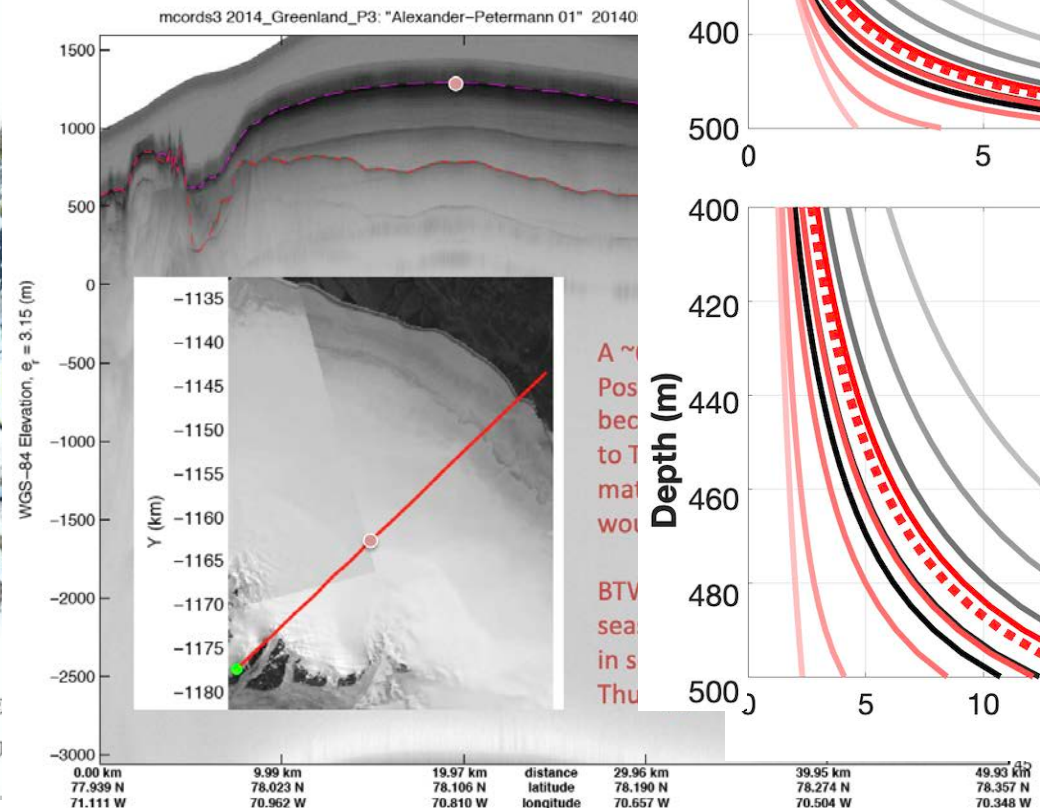
Collaborate Logistics and Science with GreenDrill project

Complete, High-Res Record back to 15+ ka



Research Questions Focused on:

- Seasonal signatures
- Summer warmth (+3-5 °C)
- Baffin Bay sea ice



700 Drill

Conceptual Design Review

November 23, 2020

