

GrIT Overview

April 5, 2012 Polar Technology Conference

Fairlee, Vt

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History

Camp Century

- Army Research Camp
- Occupied from 1959 to 1966
- Supplies traversed using special "Stretch" D8's
- CRREL

- GrIT
- Started because we wanted to move a tractor to Summit
- First attempt 2008
- One way in 2010
 - 2011 first round trip



Each trip called a "Swing"

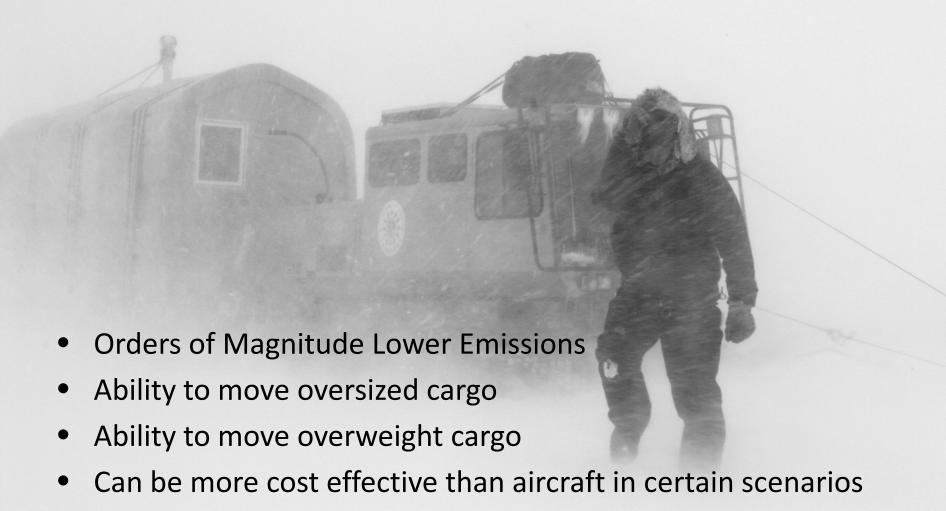
Emissions are the main driver

Vision

The Greenland Inland Traverse (GrIT) will provide a multipurpose, flexible and scalable platform which will serve to deliver fuel, cargo and equipment to any operations or research locations on the Greenland Ice Sheet and to support mobile scientific experiments and data collection. GrIT will operate in a safe, low environmental impact, timely and reliable manner.



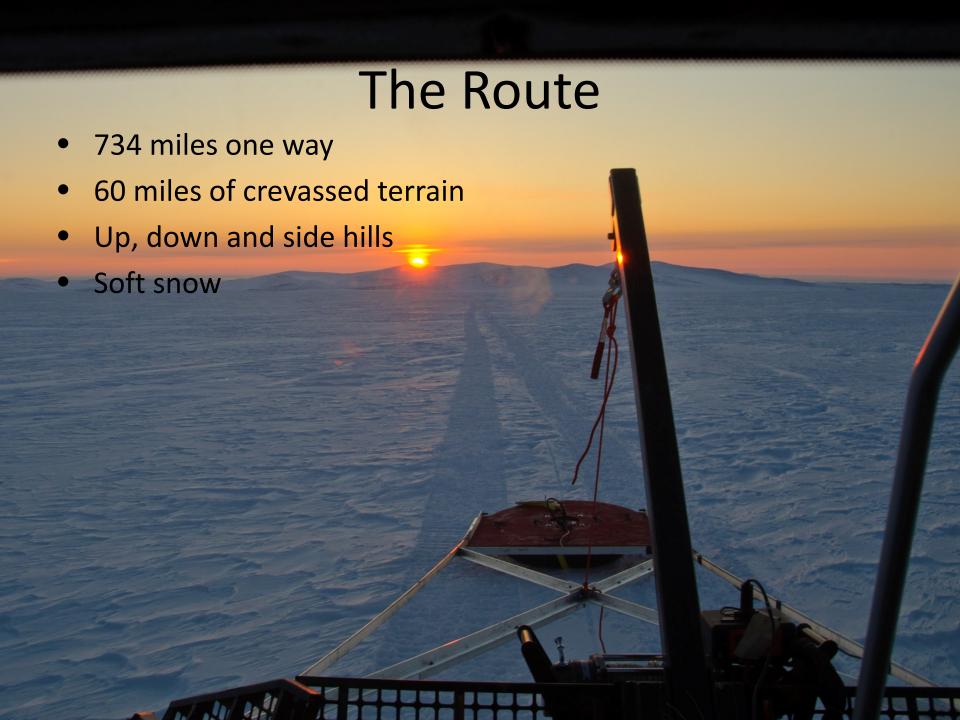
Why Drive?



Thule's got it goin' on

Gradual entry onto the ice sheet Deep water port Heavy airlift capable Infrastructure capabilities Can-do operations contractor Heated workspace - Warm & cold Storage

- Fauinment: cranes loaders trucks etc



The Fleet

- 2 Case Quadtrac
- 1 Case Magnum 335
- 1 Tucker Sno Cat
- 1 Kassbohrer Pisten Bully
- 4 bed Crew Quarters

- 4 Crew members
- 5 cargo decks
- 12 HMW sleds
- 3 Spreaders
- 48,000 gal capacity



2 new Quadtrac's coming in 2013

2011 Season in Review

- 0 recordable injuries
- 186,548 lbs of fuel delivered (27,036 gallons)
- 7000 lbs cargo delivered to Summit
- First complete round trip since inception
- 14,783 gallons consumed by 4 machines
- Average miles/ day: 42
- Top mileage in a day: 83
- Average speed: 5-7 mph















Gotcha!











Challenges

- Transporting rigid cargo
- Plastic sled breakage
- Bladder reliability
- Trimming operational costs
- Pesky and unpredictable crevasse zone



What's Next?

- Large cargo such as:
 - Mobile camps
 - AWO
 - Telescopes
 - Wind Turbines
 - Vehicles (cranes, etc)
- More on board science

