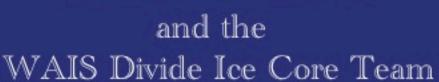


Live from Antarctica!

With PolarTREC Researcher Heidi Roop









Tommy





Life on an Ice Sheet at the bottom of the world



Where are we in Antarctica?

West Antarctic Ice Sheet (WAIS) Divide

Latitude: 79° 28' S

Longitude: 112° 5'W

Elevation: 6,500 ft

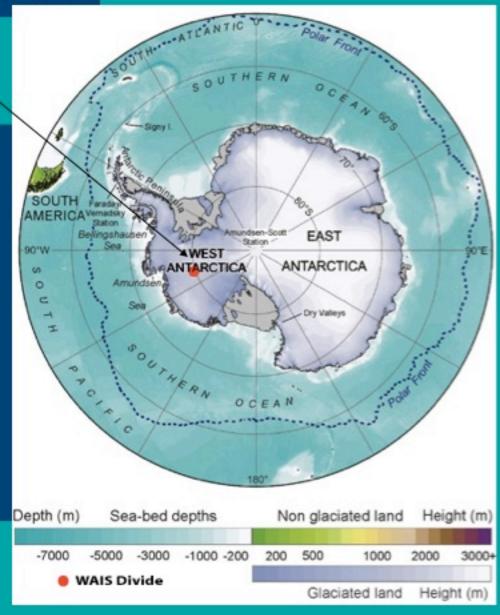
Ice sheet thickness: 3,465 m

Annual Ice accumulation: 22 cm/yr

Average surface temp: -31.1°C







Primary WAIS Divide Ice Core Project Goals

- Recover a 2-mile-long ice core
- Develop a record of the Earth's climate over the last 100,000 years, with annual resolution back 40,000 years

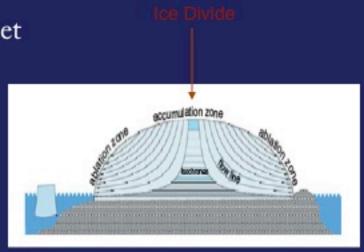


 Compare the WAIS ice core climate record to Greenland ice cores records for a better picture of global climate change

Study the stability of West Antarctic Ice Sheet







Source: Brook, 2007



The Journey South

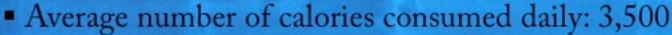




- Over 10,000 miles from Seattle to WAIS Divide
 - Our camp is supported by the Air National Guard
 - We have a skiway for ski-equipped planes (LC-130) to land at WAIS Divide

Camp Statistics!

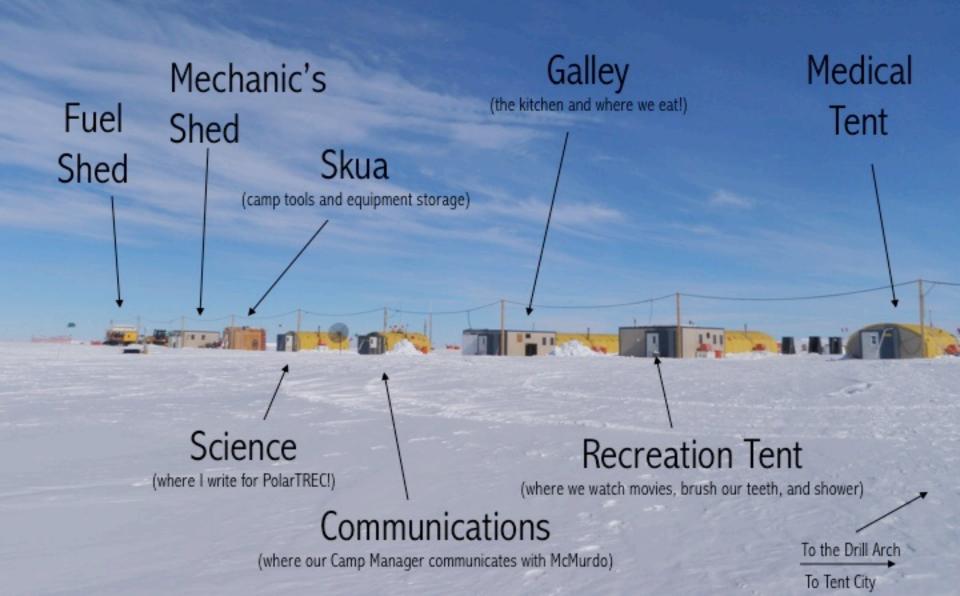
- Length of season: November- early February
- Current camp population: 38
- Number of AMAZING cooks: 3
- Current Drill Depth: 2,750 meters



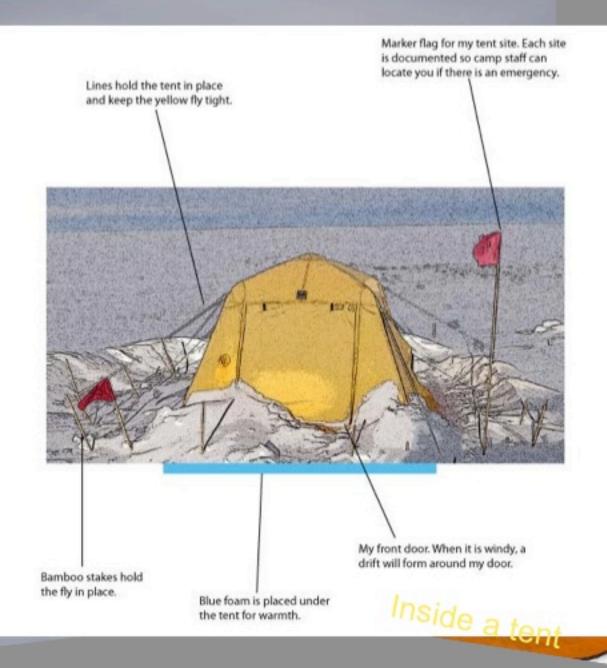
- Working hours: 24/day, 6 days a week
- Most common mode of transportation: snow machine or foot
- Number of outhouses: 7



WAIS Divide Camp



Home Sweet Home



Heidi's Ten



Keeping clean!







Outhouses aka the Black Box

(I know you all wanted to ask!)





An Inside View



Making Water at WAIS Divide



The clean snow is dumped into one of the snow melters at camp.

Heat element

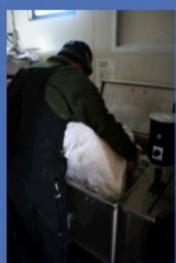


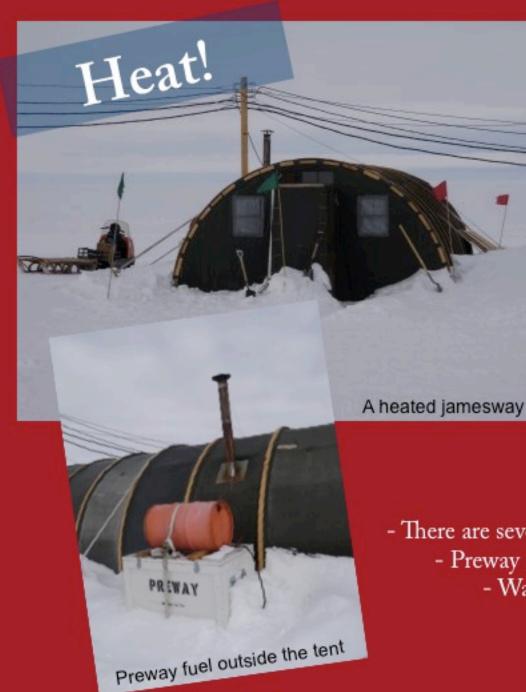




...Sometimes we have a little too much fun



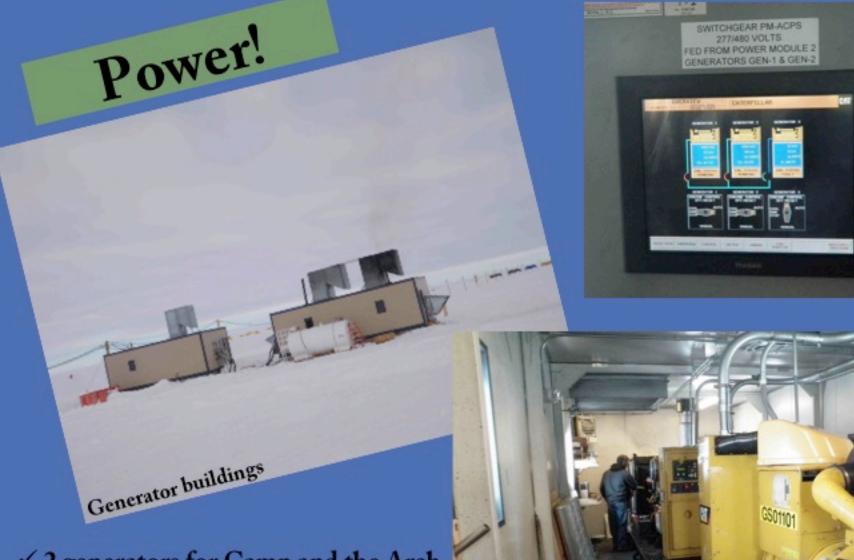






- There are several heated structures at WAIS

- Preway stoves produce the heat
 - Water pots are added to increase moisture
 We have 10 heated structures in camp



Generators

- ✓ 2 generators for Camp and the Arch
- ✓ 1 generator is always back-up
- ✓ Our mechanic Shawn keeps them running smoothly

Weather!





Weather is monitored by Stephanie, our camp meteorologist.



Condition 3: Clear, low winds

Decreased visibility, med. winds

Condition 1: No visibility, high winds

Highest temperature this season: +23 °F

• Lowest temperature: -50 °F

Modes of Transport: planes, snow machines, Tuckers, and more!











Fuel for the body!











Our wild, white backyard







Questions?



Yes, Santa did find us!