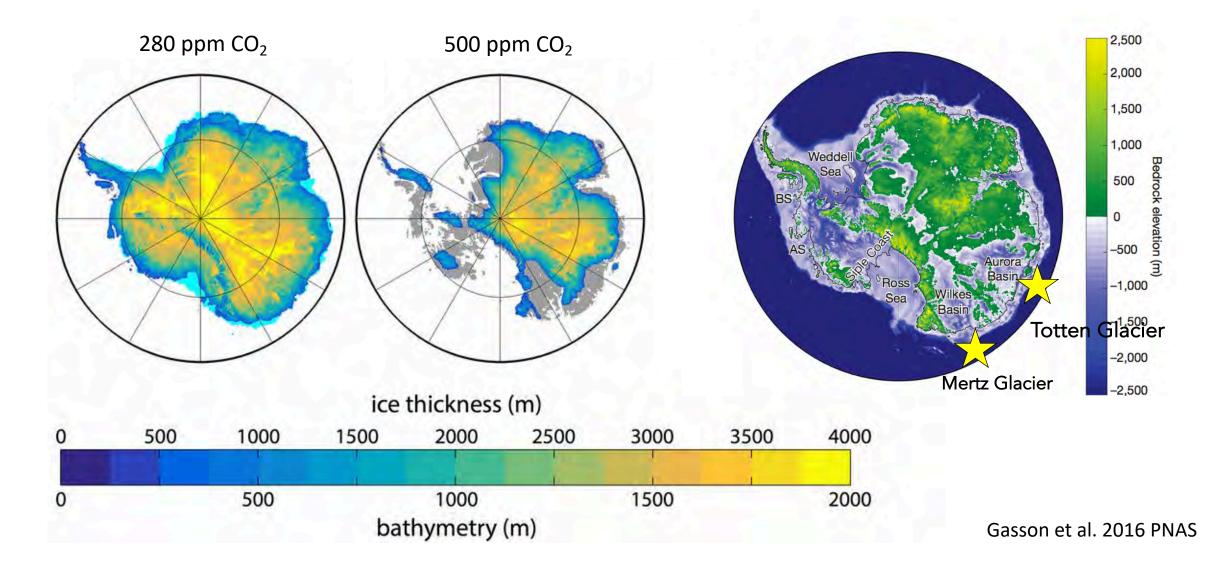
Sediment secrets

Taryn Noble

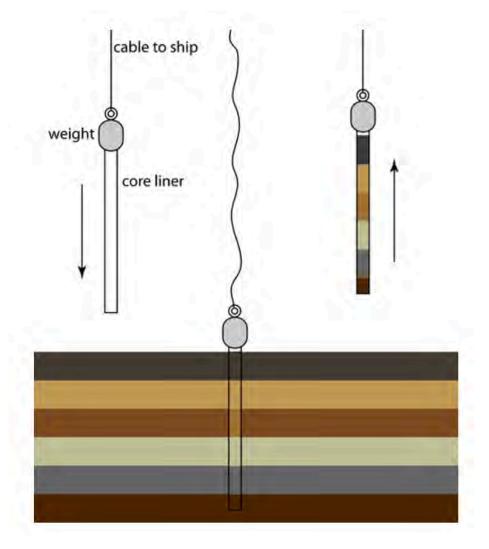
Antarctic Ice Sheet in a warming world?



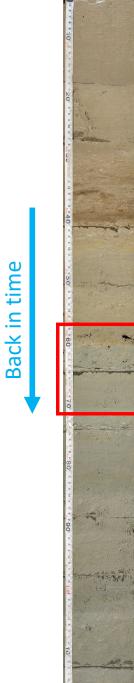
Sampling



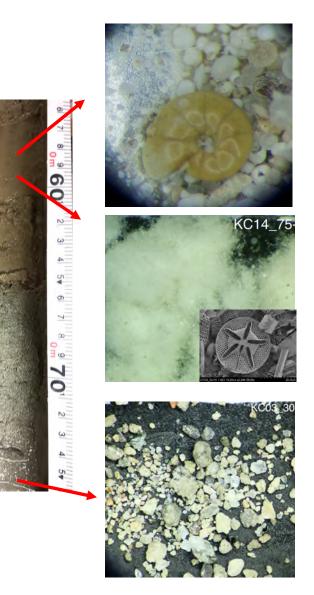
Collecting sediment with a Kasten corer







Antarctic mud



Foraminifera

- Age dating with foraminifera
- C and O isotopes. Mg/Ca, Ba/C etc

Diatoms

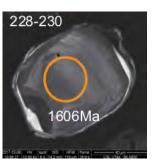
 Sea ice thickness and distribution

Lithogenic material

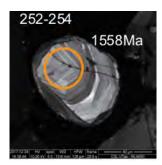
- Iceberg rafted rock fragments
 ice sheet break up
- Rock fragments represent Antarctic geology hidden beneath the ice

How did Antarctica respond to past climate warming?









- + IBRD flux
- + neodymium isotopes,
- + U/Pb ages
- + diatom concentration
- + elemental ratios

