Glacial landforms on the Siberian termination of the Lomonosov Ridge – hints for a 1 km thick pan-Arctic ice



shelf?

Ursula Schlager

W. Jokat

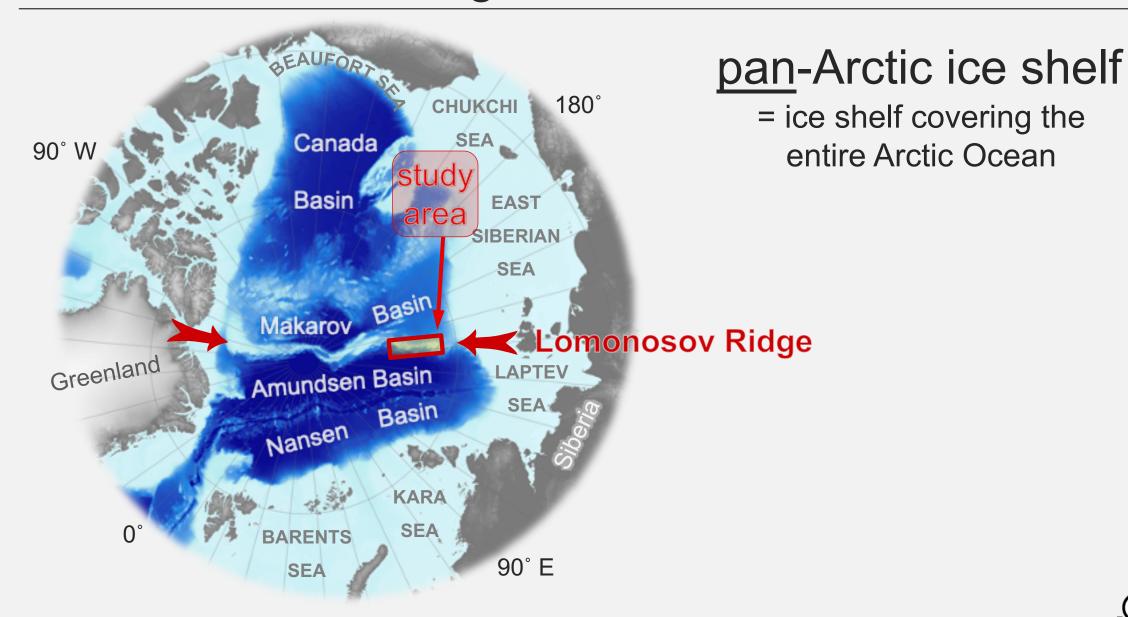
E. Weigelt

C. Gebhardt



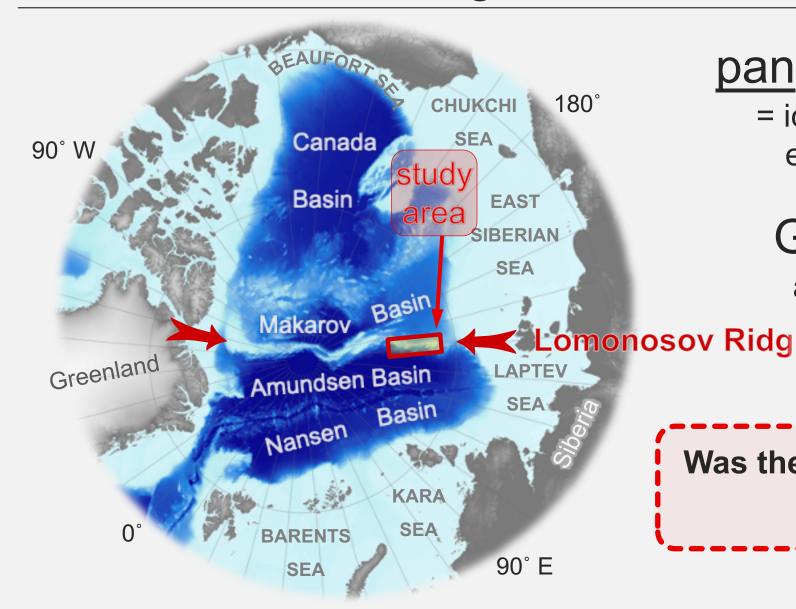
The Lomonosov Ridge in the Arctic Ocean





The Lomonosov Ridge in the Arctic Ocean





pan-Arctic ice shelf

= ice shelf covering the entire Arctic Ocean

Geibert et al., 2021

absence of thorium-230 in marine sediments implies pan-Arctic Ice Shelf

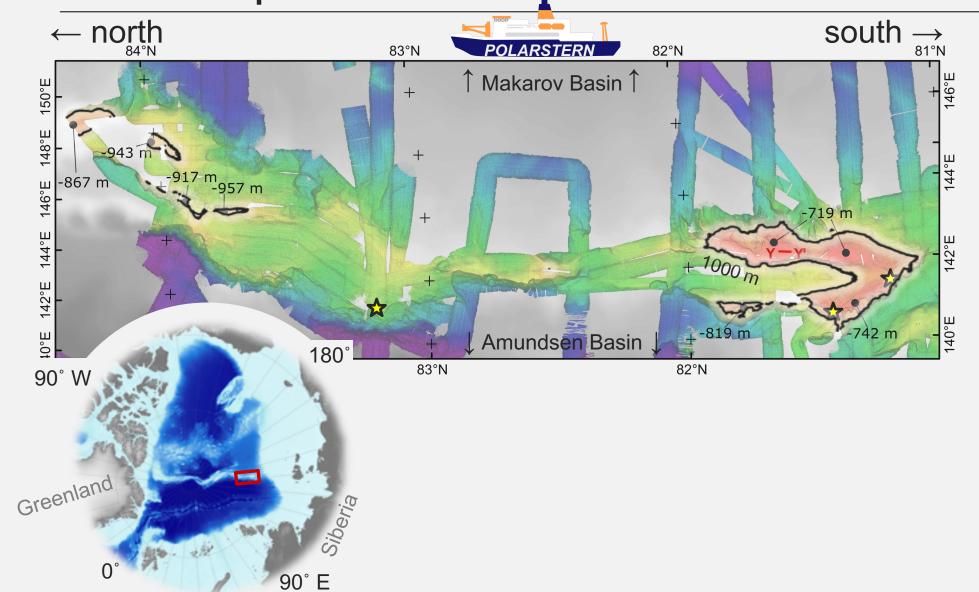
Was the pan-Arctic ice shelf ~1 km thick?





Was the pan-Arctic ice shelf ~1 km thick?





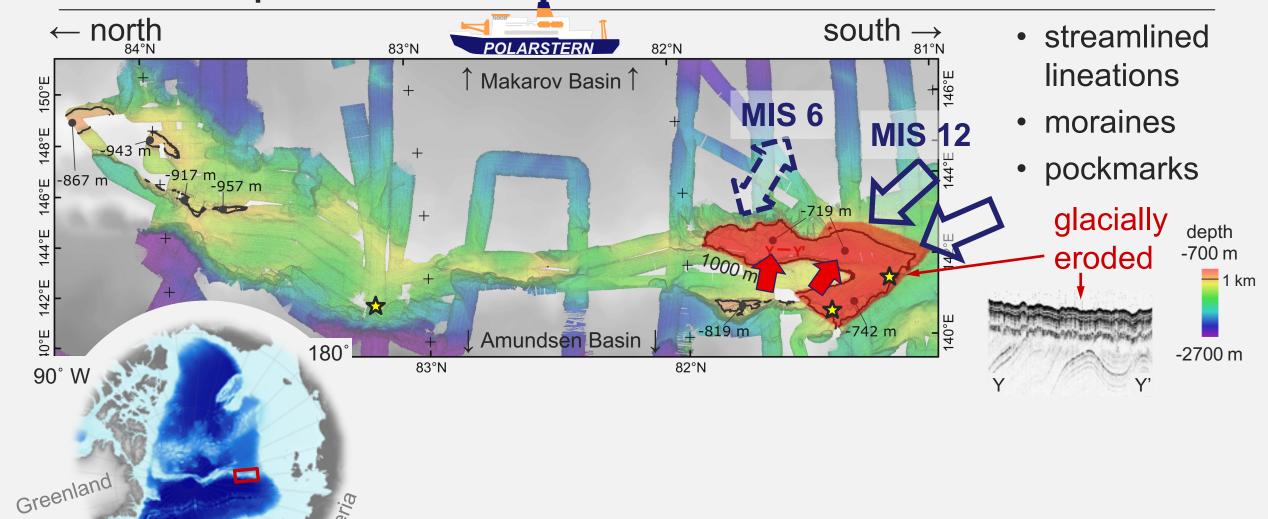




Was the pan-Arctic ice shelf ~1 km thick?

90° E

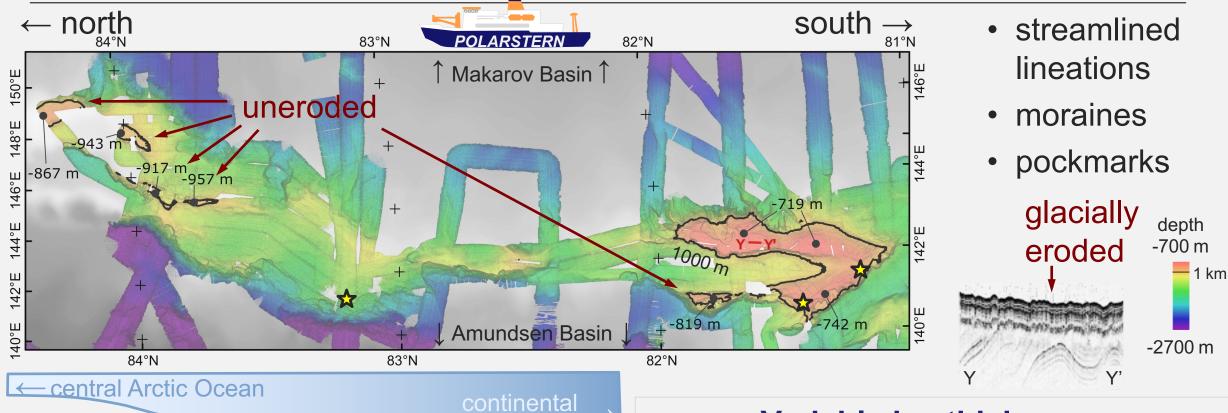






Was the pan-Arctic ice shelf ~1 km thick?





Variable ice thickness:

up to ~1250 m and thinner than 780 m





or

THANK YOU

contact: ursula.schlager@awi.de



