Geomorphology of a Glacial Erosional Surface from 3D Seismic Data in the Southwestern Barents Sea, Offshore Arctic Norway

Research Themes

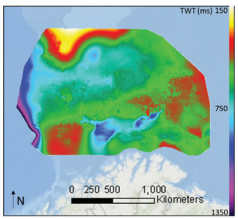
- Analyze 2D and 3D seismic data from the Barents Sea, offshore northern Norway, in order to better understand the glacial history recorded in offshore stratigraphy
- Map the regional extent of glacially-influenced erosional unconformities in the Barents Sea
- Use 3D seismic data to create detailed surfaces in order to examine geomorphology on the surface of this unconformity
- Characterize seismic facies throughout the glacial-interglacial section between the base of glacial sediments and seafloor

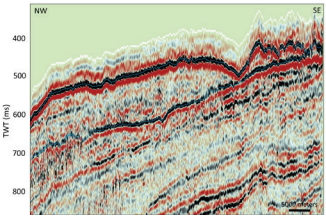
Recent Accomplishments

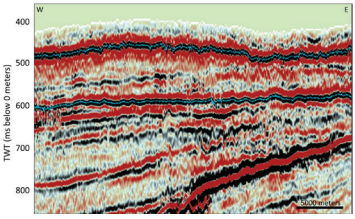
- Completed high-latitude sedimentology field course studying depositional systems and sedimentary architecture at the University Centre in Svalbard (Arctic Norway)
- Studied abroad and took Seismic Interpretation and 3D Structural and Geological Modeling at the University of Stavanger, Norway
- Competed in the University of Stavanger's Imperial Barrel Award Competition
- Completed Inter-University Program's Chinese language courses at Tsinghua University, Beijing, China

Issues

- Detailing glacial geormorphic features in 3D seismic data
- Measuring slopes and geometries of geomorphologic landforms on glacial unconformities
- Comparing Barents Sea glacial landforms to similar landforms found offshore Antarctica







Janet Kong

Major/Field of Study: Geology

College: College of Natural Sciences & Mathematics

Professor: Dr. Julia Wellner

Email: jckong7@gmail.com

GEO