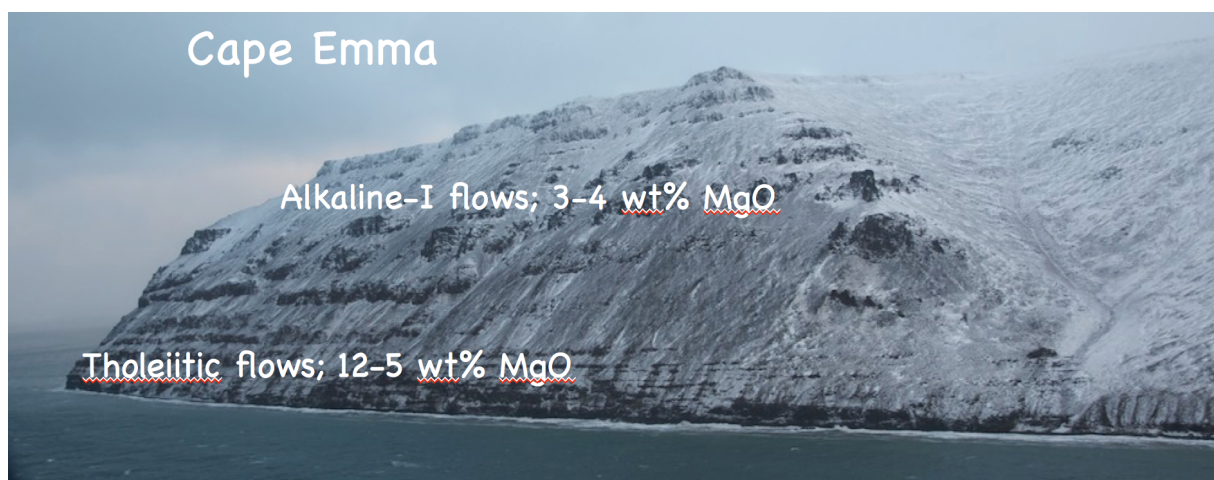


Large Volcanic Provinces of the Arctic

Christian Tegner, Aarhus University

Magmatic rocks occur throughout the Arctic area (Greenland, Russia, Norway and Canada) and were originally described as the Brito-Arctic Province (or Thulean Province). Today we subdivide these magmatic rocks into several, distinct Large Volcanic Provinces. This talk will review recent research on their age and petrology, focussing on how magmatic rocks can be used to constrain plate tectonics and the geodynamic evolution of Earth.



(Photo of flood basalts on Bennett Island, East Siberian Sea, Russia)