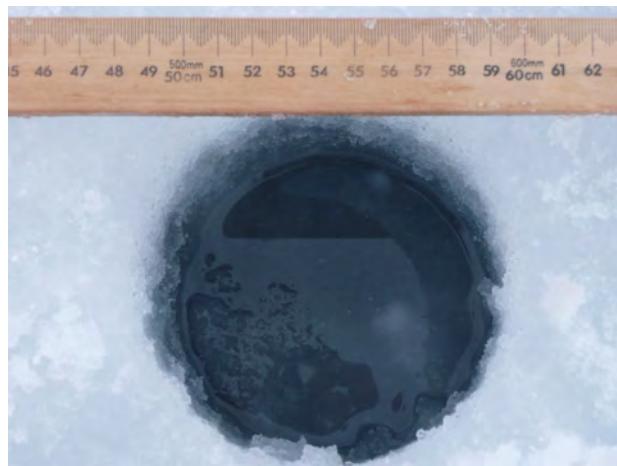
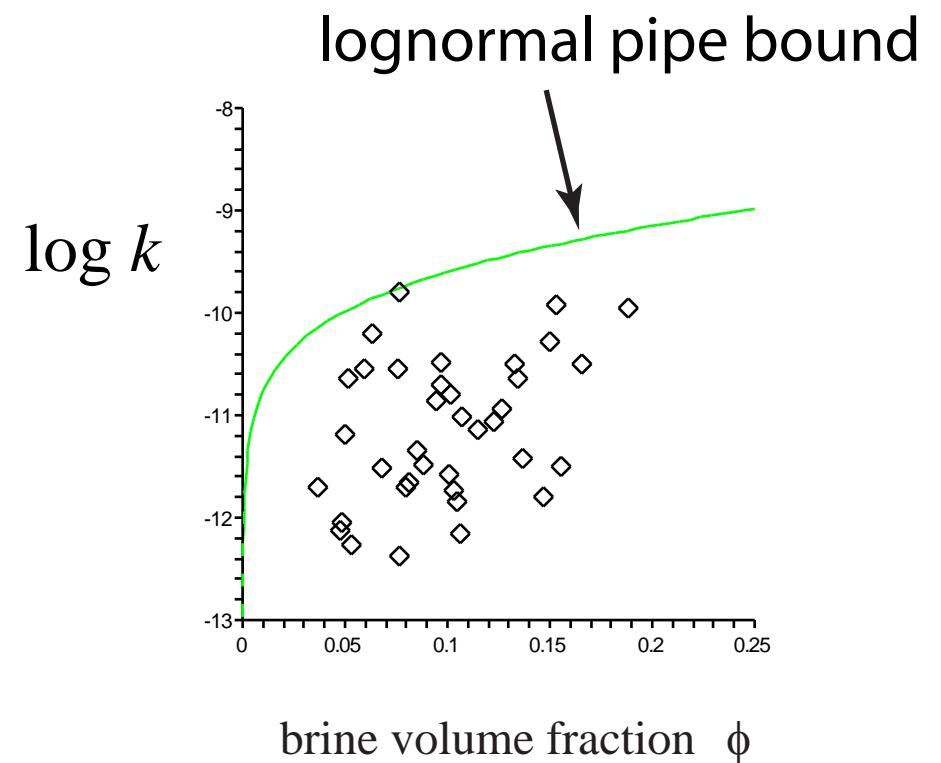
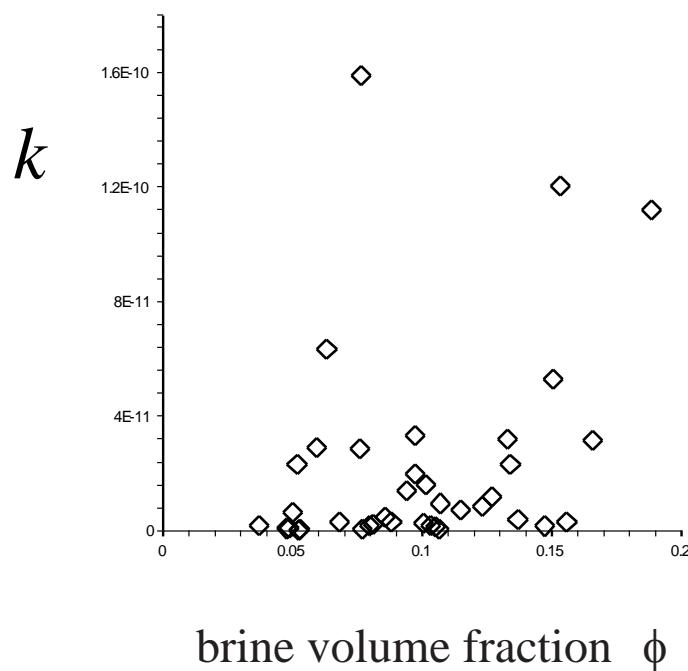


Measurements of fluid permeability



(Photo by Jan Lieser)

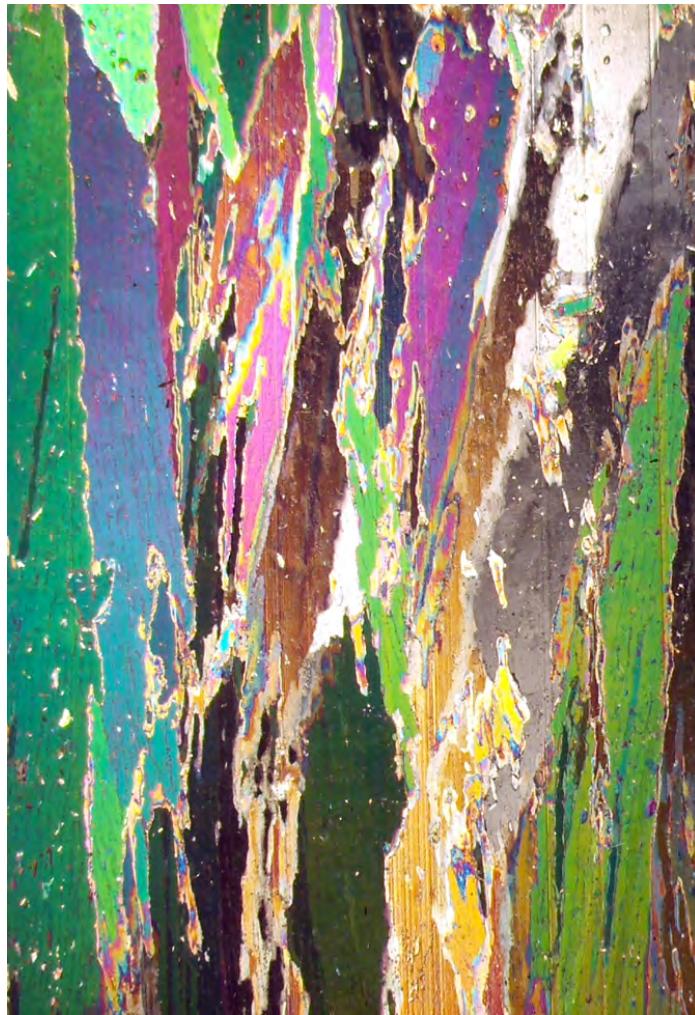
corrected permeability data -- excludes horizontal flow



higher threshold for fluid flow in Antarctic granular sea ice

5%

columnar



granular

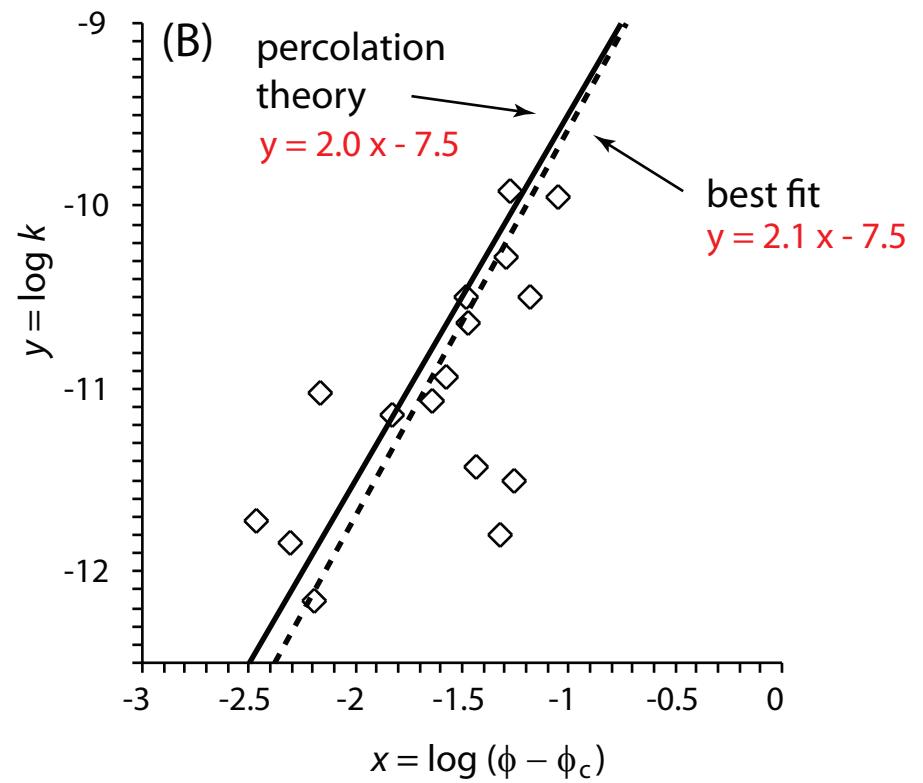
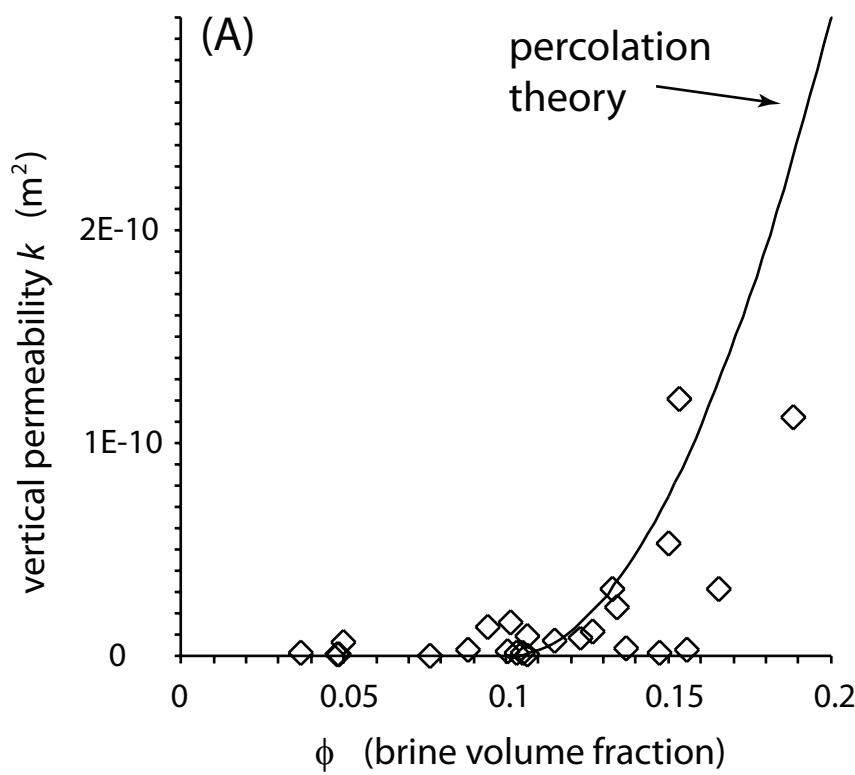
10%

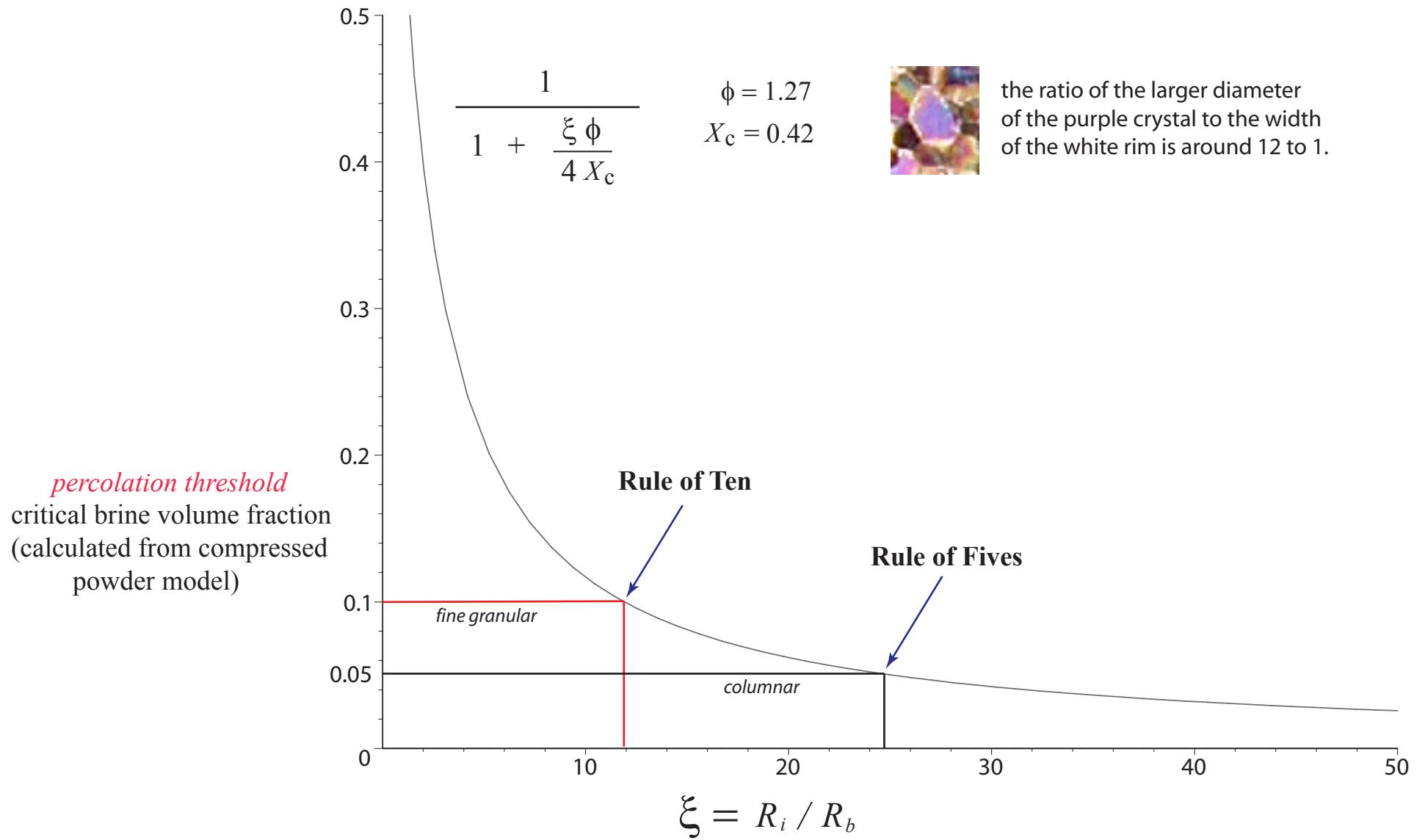


different microstructure -- different threshold

granular ice common in Arctic surface layer

permeability data for granular sea ice





crystal data for compressed powder model

