



Figure 4: Comparison of *in situ* data on k (m^2) for Antarctic sea ice with percolation theory, displayed on a linear scale in (A) and on a logarithmic scale in (B), where a statistical best fit (dotted line) of the data is shown along with the prediction of percolation theory with $\phi_c \approx 0.1$.

with $\phi_c \approx 0.1$ for granular ice. In Figure 4 (A), we display the granular permeability data along with the curve in (5). In (B) we show in logarithmic variables the percolation theory prediction along with a statistical best fit, for permeability data with ϕ above 0.10, showing close agreement.

References and Notes

1. D. N. Thomas, G. S. Dieckmann, eds., *Sea Ice: An Introduction to its Physics, Chemistry, Biology and Geology* (Blackwell, Oxford, 2003).
2. M. C. Serreze, M. M. Holland, J. Stroeve, *Science* **315**, 1533 (2007).