

PROCEEDINGS A

350 YEARS
OF SCIENTIFIC
PUBLISHING

An invited review
commemorating 350 years
of scientific publishing at the
Royal Society

A method to distinguish
between different types
of sea ice using remote
sensing techniques

A computer model to
determine how a human
should walk so as to expend
the least energy



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ROYAL
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PUBLISHING

Cover image

The Australian icebreaker Aurora Australis sails through a vast field of pancake ice in the Southern Ocean off the coast of East Antarctica. The pancakes form in wavy conditions, and typically have a granular polycrystalline microstructure. (Image courtesy of A. Gully, J. Lin, E. Cherkaev and K. M. Golden, Bounds on the complex permittivity of polycrystalline materials by analytic continuation. Proc. R. Soc. A 471: 20140702; <http://dx.doi.org/10.1098/rspa.2014.0702>.)