Weathering Across the Earth Sciences

Guest Editors: Patrick J. Frings and Heather L. Buss

The Central Role of Weathering in the Geosciences
Patrick J. Frings and Heather L. Buss

The Goldilocks Planet? How Silicate Weathering Maintains Earth “Just Right”
James F. Kasting

How Plants Enhance Weathering and How Weathering is Important to Plants
Stephen Porder

Breaking it Down: Mechanical Processes in the Weathering Engine
Suzanne P. Anderson

Combating Climate Change Through Enhanced Weathering of Agricultural Soils
M. Grace Andrews and Lyla L. Taylor

Palaeoweathering: How Do Weathering Rates Vary with Climate?
Patrick J. Frings

Chemical weathering at millimetre scales, as depicted here by the false colour backscatter electron (BSE) image of a weathering rind, ultimately produces the critical zone and the resources necessary to sustain life within it. Composition and BSE image by Oliver Moore; TreeLine by William Warby.