

## **Millennial-Scale Dynamics of the CO<sub>2</sub> Super-Greenhouse at the End-Triassic Extinction**

P.E. Olsen<sup>1</sup>, S. Hemming<sup>1</sup>, E. Rasbury<sup>2</sup>, S.L. Goldstein<sup>1</sup>, D.V. Kent<sup>1,3</sup>

**Abstract:** We propose an interdisciplinary, millennial scale analysis of two well-studied marine sections in the United Kingdom to clarify the events around the initiation of the CO<sub>2</sub> doubling at the end-Triassic extinction (ETE). The existing framework of high-precision zircon ages, cycle stratigraphy, and magnetostratigraphy, makes this study well poised as a proof of concept for a global high-resolution analysis of the best example of a mass-extinction forced by the emplacement of a large igneous province.