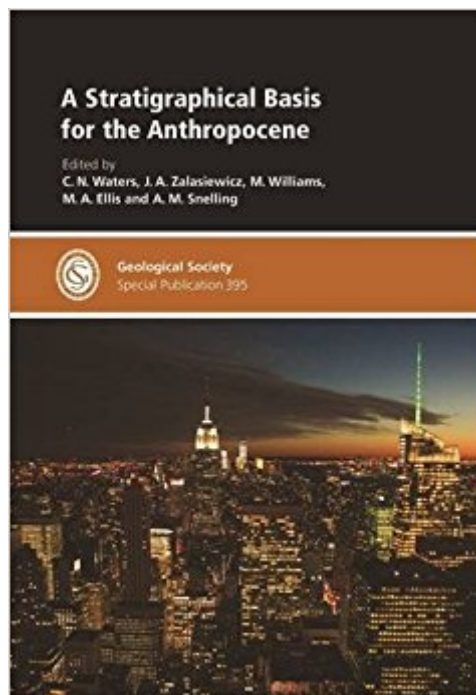


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A Stratigraphical Basis For The Anthropocene (Geological Society Of London Special Publication)



Synopsis

Humankind has pervasively influenced the Earth's atmosphere, biosphere, geosphere, hydrosphere and cryosphere, arguably to the point of fashioning a new geological epoch, the Anthropocene. To constrain the Anthropocene as a potential formal unit within the Geological Time Scale, a spectrum of indicators of anthropogenically-induced environmental change is considered, and shown as stratigraphical signals that may be used to characterize an Anthropocene unit, and to recognize its base. This volume describes a range of evidence that may help to define this potential new time unit and details key signatures that could be used in its definition. These signatures include lithostratigraphical (novel deposits, minerals and mineral magnetism), biostratigraphical (macro- and micro-palaeontological successions and human-induced trace fossils) and chemostratigraphical (organic, inorganic and radiogenic signatures in deposits, speleothems and ice and volcanic eruptions). We include, finally, the suggestion that humans have created a further sphere, the technosphere, that drives global change.

Book Information

Series: Geological Society of London Special Publication

Hardcover: 321 pages

Publisher: Geological Society Publishing House (June 4, 2014)

Language: English

ISBN-10: 1862396280

ISBN-13: 978-1862396289

Product Dimensions: 1 x 7 x 9.8 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

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Publication Design Annual) (Vol 34) 42nd Publication Design Annual (Society of Publication Designers' Publication Design Annual) 38th Publication Design Annual (Society of Publication Designers' Publication Design Annual) 36th Publication Design Annual (Society of Publication Designers' Publication Design Annual) (Vol 36) Best Magazine Design Spd Annual: 29th Publication Design (Society of Publication Designers' Publication Design Annual) (v. 29) Magmatism and the Causes of Continental Break-Up (Geological Society Special Publication) LONDON: The Ultimate Travel Guide With Essential Tips About What To See, Where To Go, Eat And Sleep (London Travel Guide, London Guide, London Traveling Guide) Structural Geology of the Colorado Plateau Region of Southern Utah, With Special Emphasis on Deformation Bands (Special Paper (Geological Society of America)) Drawing Geological Structures (Geological Field Guide) Studies of Sonoran Geology (Special Paper (Geological Society of America)) Tectonostratigraphic Terranes and Tectonic Evolution of Mexico (Special Paper (Geological Society of America)) Paleobiology of the Dinosaurs (Special Paper (Geological Society of America)) Conodont paleozoology, (Geological Society of America. Special paper 141) The Art of Geology (Special Paper (Geological Society of America)) Caribbean gravity field and plate tectonics (Special paper - Geological Society of America ; 169) When Did Plate Tectonics Begin on Planet Earth? (Special Paper (Geological Society of America)) Strike-Slip Deformation, Basin Formation, and Sedimentation (Special Publication (Society of Economic Paleontologists and Mineralogists)) Radiation Curing of Polymers: The Proceedings of a Symposium Organized by the North West Region of the Industrial Division of the Royal Society of Chemistry, University of Lancaster, 18th-19th September 1986 (Special Publication No.64)

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