



Chapter 20, Catastrophe: Extraterrestrial Impacts, Massive Volcanism, and the Biosphere

Ann Henderson-Sellers

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NOTE: This is a single chapter excerpted from the book *The Future of the World's Climate*, made available for individual purchase. Additional chapters, as well as the entire book, may be purchased separately.

At a time of so much politicized debate over the phenomenon of global warming, the second edition of *The Future of the World's Climate* places the discussion in a broader geological, paleo-climatic, and astronomical context. This book is a resource based on reviews of current climate science and supported by sound, accurate data and projections made possible by technological advances in climate modeling.

Crucially, this title examines in detail a wide variety of aspects, including human factors like land use, expanding urban climates, and governmental efforts at mitigation, such as the Kyoto Protocol. It also examines large-scale, long-term changes in oceans, glaciers, and atmospheric composition, including tropospheric ozone and aerosols. Weather extremes are addressed, as well as the impact of catastrophic events such as massive volcanism and meteorite impacts.

Readers will find a complete picture of the Earth's future climate, delivered by authors drawn from all over the world and from the highest regarded peer-reviewed groups; most are also contributors to the Intergovernmental Panel on Climate Change's (IPCC) Assessment Reports.

- Winner of the 2012 ALSI Choice Award from Atmospheric Science Librarians International
- Each chapter has undergone major revisions and new content has been added throughout
- More than 200 tables, diagrams, illustrations, and photographs
- A cross-disciplinary resource encompassing the geosciences, life science, social science, and engineering

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