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# Geography Dynamic Planet 2013 Mark Scheme

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Geospatial Technologies and Climate Change  
Debates in Geography Education  
Our Dynamic Earth: A Primer  
Sensing Disaster  
Crisis, Movement, Management: Globalising  
Dynamics  
Biogeography: A Very Short Introduction  
The Web of Geological Sciences:  
Geologic Life  
Earth Environments  
Comprehensive Geographic Information Systems  
The Scandal of the Evangelical Mind  
The History and Dynamics of Global Plate Motions  
Student Atlas  
The Earth: A Very Short Introduction  
Phenology: An Integrative Environmental Science  
Provisional Cities  
Scottish Education  
Manual of Digital Earth  
The Social Lives of Land  
Student Atlas, 7th Edition  
Aerial Aftermaths  
The Revenge of Geography  
The Cambrian Fossils of Chengjiang, China

Volcanic Eruptions and Their Repose, Unrest,  
Precursors, and Timing  
The Sun, the Earth, and Near-earth Space  
Water Security  
Spatial Uncertainty in Ecology  
Voluminous States  
Global Change and Future Earth  
Six Degrees  
An Introduction to Human-Environment  
Geography  
Climate Change and Museum Futures  
Alliances in the Anthropocene  
The Web of Geological Sciences  
Earth System Evolution and Early Life  
Monitoring and Modelling Dynamic Environments  
The Cradle of Humanity  
Physical Geography  
The Anthropology of Climate Change  
The Uninhabitable Earth

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**STEWART PAMELA**

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Geospatial  
Technologies and  
Climate Change  
Edinburgh University  
Press  
This is one of the first

books to take an  
ecological perspective  
on uncertainty in  
spatial data. It applies  
principles and  
techniques from  
geography and other  
disciplines to ecological  
research, and thus  
delivers the tools of  
cartography, cognition,  
spatial statistics,

remote sensing and computer sciences by way of spatial data. After describing the uses of such data in ecological research, the authors discuss how to account for the effects of uncertainty in various methods of analysis.

*Debates in Geography Education* Springer

Nature

This book provides a comprehensive coverage of the major topics within undergraduate study programmes in geosciences, environmental science, physical geography, natural hazards and ecology. This text introduces students to the Earth's four key interdependent systems: the atmosphere, lithosphere, hydrosphere and

biosphere, focussing on their key components, interactions between them and environmental change. Topics covered include: An earth systems model; components systems and processes: atmospheric systems; oceanography, endogenic geological systems and exogenic geological systems, biogeography and, aspects of the Earth's Record. The impact of climate and environmental change is discussed in a final chapter which draws together Earth's systems and their evolution and looks ahead to future earth changes and environments and various time periods in the geological record. Throughout the book

geological case studies are used in addition to the modern processes. *Our Dynamic Earth: A Primer* Cambridge University Press  
 NEW YORK TIMES BESTSELLER • In this “ambitious and challenging” (The New York Review of Books) work, the bestselling author of *Monsoon* and *Balkan Ghosts* offers a revelatory prism through which to view global upheavals and to understand what lies ahead for continents and countries around the world. In *The Revenge of Geography*, Robert D. Kaplan builds on the insights, discoveries, and theories of great geographers and geopolitical thinkers of the near and distant past to look back at critical pivots in history and then to look

forward at the evolving global scene. Kaplan traces the history of the world’s hot spots by examining their climates, topographies, and proximities to other embattled lands. The Russian steppe’s pitiless climate and limited vegetation bred hard and cruel men bent on destruction, for example, while Nazi geopoliticians distorted geopolitics entirely, calculating that space on the globe used by the British Empire and the Soviet Union could be swallowed by a greater German homeland. Kaplan then applies the lessons learned to the present crises in Europe, Russia, China, the Indian subcontinent, Turkey, Iran, and the Arab Middle East. The result is a holistic interpretation of the

next cycle of conflict throughout Eurasia. Remarkably, the future can be understood in the context of temperature, land allotment, and other physical certainties: China, able to feed only 23 percent of its people from land that is only 7 percent arable, has sought energy, minerals, and metals from such brutal regimes as Burma, Iran, and Zimbabwe, putting it in moral conflict with the United States. Afghanistan's porous borders will keep it the principal invasion route into India, and a vital rear base for Pakistan, India's main enemy. Iran will exploit the advantage of being the only country that straddles both energy-producing areas of the Persian Gulf and the

Caspian Sea. Finally, Kaplan posits that the United States might rue engaging in far-flung conflicts with Iraq and Afghanistan rather than tending to its direct neighbor Mexico, which is on the verge of becoming a semifailed state due to drug cartel carnage. A brilliant rebuttal to thinkers who suggest that globalism will trump geography, this indispensable work shows how timeless truths and natural facts can help prevent this century's looming cataclysms.

*Sensing Disaster*

Routledge

#1 NEW YORK TIMES

BESTSELLER • "The

Uninhabitable Earth

hits you like a comet,

with an overflow of

insanely lyrical prose

about our pending

Armageddon."—Andre

w Solomon, author of *The Noonday Demon* NAMED ONE OF THE BEST BOOKS OF THE YEAR BY *The New Yorker* • *The New York Times Book Review* • *Time* • NPR • *The Economist* • *The Paris Review* • *Toronto Star* • *GQ* • *The Times Literary Supplement* • *The New York Public Library* • *Kirkus Reviews* It is worse, much worse, than you think. If your anxiety about global warming is dominated by fears of sea-level rise, you are barely scratching the surface of what terrors are possible—food shortages, refugee emergencies, climate wars and economic devastation. An “epoch-defining book” (*The Guardian*) and “this generation’s *Silent Spring*” (*The*

*Washington Post*), *The Uninhabitable Earth* is both a travelogue of the near future and a meditation on how that future will look to those living through it—the ways that warming promises to transform global politics, the meaning of technology and nature in the modern world, the sustainability of capitalism and the trajectory of human progress. *The Uninhabitable Earth* is also an impassioned call to action. For just as the world was brought to the brink of catastrophe within the span of a lifetime, the responsibility to avoid it now belongs to a single generation—today’s. **LOONGLISTED FOR THE PEN/E.O. WILSON LITERARY SCIENCE WRITING AWARD** “The

Uninhabitable Earth is the most terrifying book I have ever read. Its subject is climate change, and its method is scientific, but its mode is Old Testament. The book is a meticulously documented, white-knuckled tour through the cascading catastrophes that will soon engulf our warming planet.”—Farhad Manjoo, *The New York Times* “Riveting. . . . Some readers will find Mr. Wallace-Wells’s outline of possible futures alarmist. He is indeed alarmed. You should be, too.”—*The Economist* “Potent and evocative. . . . Wallace-Wells has resolved to offer something other than the standard narrative of climate change. . . . He avoids the ‘eerily banal

language of climatology’ in favor of lush, rolling prose.”—Jennifer Szalai, *The New York Times* “The book has potential to be this generation’s *Silent Spring*.”—*The Washington Post* “The *Uninhabitable Earth*, which has become a best seller, taps into the underlying emotion of the day: fear. . . . I encourage people to read this book.”—Alan Weisman, *The New York Review of Books* *Crisis, Movement, Management: Globalising Dynamics* Penguin  
For generations, the ground beneath the feet of our ancestors seemed solid and unchanging. Around 30 years ago, two things happened that were to revolutionize the understanding of our

home planet. First, geologists realized that the continents themselves were drifting across the surface of the globe and that oceans were being created and destroyed. Secondly, pictures of the entire planet were returned from space. As the astronomer Fred Hoyle had predicted, this 'let loose an idea as powerful as any in history'. Suddenly, the Earth began to be viewed as a single entity; a dynamic, interacting whole, controlled by complex processes we scarcely understood. It began to seem less solid. As one astronaut put it, 'a blue jewel on black velvet; small, fragile and touchingly alone'. Geologists at last were able to see the whole as well as the detail;

the wood as well as the trees. This book brings their account up to date with the latest understanding of the processes that govern our planet. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable. [Biogeography: A Very Short Introduction](#) Springer Science & Business Media A systems-based approach to physical geography written in



an easy-to-understand narrative style that is closely integrated with clear, single-concept illustrations.

The Web of Geological Sciences: John Wiley & Sons

Globalised neo-liberalism has produced multiple crises – social, ecological, political. In the past, crises of global order have generated large-scale social transformations, and the current crises likewise hold a transformative promise. Social movements become a crucial barometer, in signalling both the demise and rise of political formations and programs. Elite strategies, framed as crisis management, create their own disordering side-effects. Experiments in

movement strategy gain greater significance, as do contending elite efforts at repressing, managing or displacing the fall-out. In this book we investigate both movements and management in the face of crisis, taking crisis and unanticipated consequences as a normal state-of-play. The book enquires into the winners and losers from crisis, and investigates the movement-management nexus as it unfolds in particular localities as well as in broader contexts. The book deals with some of the most pressing conflicts of our time, and produces a range of theoretical insights: the ubiquity of crisis is seen as not only a hallmark of social life,

but a way into a different kind of social analysis. This book was published as a special issue of *Globalizations*. *Geologic Life* John Wiley & Sons

Biogeography is the study of geographic variation in all characteristics of life - ranging from genetic, morphological and behavioural variation among regional populations of a species, to geographic trends in diversity of entire communities across our planet's surface. From the ancient hunters and gatherers to the earliest naturalists, Charles Darwin, Alfred Russel Wallace, and scientists today, the search for patterns in life has provided insights that proved invaluable for understanding the

natural world. And many, if not most, of the compelling kaleidoscope of patterns in biological diversity make little sense unless placed in an explicit geographic context. The *Very Short Introduction* explains the historical development of the field of biogeography, its fundamental tenets, principles and tools, and the invaluable insights it provides for understanding the diversity of life in the natural world. As Mark Lomolino shows, key questions such as where species occur, how they vary from place to place, where their ancestors occurred, and how they spread across the globe, are essential for us to develop effective strategies for conserving the great

menagerie of life across our planet.

ABOUT THE SERIES:  
The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Earth Environments

Routledge

One of the fundamental questions of our existence is why we are so smart. There are lots of drawbacks to having a large brain, including the huge food intake needed to keep the organ running, the

frequency with which it goes wrong, and our very high infant and mother mortality rates compared with other mammals, due to the difficulty of giving birth to offspring with very large heads. So why did evolution favour the brainy ape? This question has been widely debated among biological anthropologists, and in recent years, Maslin and his colleagues have pioneered a new theory that might just be the answer. Looking back to a crucial period some 1.9 million years ago, when brain capacity increased by as much as 80%, *The Cradle of Humanity* explores the implications of two adaptive responses by our hominin ancestors to rapid climatic changes - big jaws, and

big brains. Maslin argues that the impact of changing landscapes and fluctuating climates that led to the appearance of intermittent freshwater lakes in East Africa may have played a key role in human evolution. Alongside the physical evidence of fossils and tools, he considers social theories of why a large, complex brain would have provided a major advantage when trying to survive in the constantly changing East African landscape. *Comprehensive Geographic Information Systems* Government Printing Office

The celebrated lower Cambrian Chengjiang biota of Yunnan Province, China, represents one of the most significant ever paleontological

discoveries. Deposits of ancient mudstone, about 520 million years old, have yielded a spectacular variety of exquisitely preserved fossils that record the early diversification of animal life. Since the discovery of the first specimens in 1984, many thousands of fossils have been collected, exceptionally preserving not just the shells and carapaces of the animals, but also their soft tissues in fine detail. This special preservation has produced fossils of rare beauty; they are also of outstanding scientific importance as sources of evidence about the origins of animal groups that have sustained global biodiversity to the present day. Much of the scientific documentation of the

Chengjiang biota is in Chinese, and the first edition of this book was the first in English to provide fossil enthusiasts with a comprehensive overview of the fauna. The second edition has been fully updated and includes a new chapter on other exceptionally preserved fossils of Cambrian age, exciting new fossil finds from Chengjiang, and a phylogenetic framework for the biota. Displaying some 250 figures of marvelous specimens, this book presents to professional and amateur paleontologists, and all those fascinated by evolutionary biology, the aesthetic and scientific quality of the Chengjiang fossils.

**The Scandal of the Evangelical Mind**

Cambridge University Press

The purpose of this book is to present an overview of the latest research, policy, practitioner, academic and international thinking on water security—an issue that, like water governance a few years ago, has developed much policy awareness and momentum with a wide range of stakeholders. As a concept it is open to multiple interpretations, and the authors here set out the various approaches to the topic from different perspectives. Key themes addressed include: Water security as a foreign policy issue The interconnected variables of water, food, and human security Dimensions

other than military and international relations concerns around water security Water security theory and methods, tools and audits. The book is loosely based on a masters level degree plus a short professional course on water security both given at the University of East Anglia, delivered by international authorities on their subjects. It should serve as an introductory textbook as well as be of value to professionals, NGOs, and policy-makers. The History and Dynamics of Global Plate Motions Elsevier Here is the state-of-the-art on the dynamics of plate motions, and the questions about it that remain. Earth scientists and students will find it

a rich resource for new interpretations and research.

Student Atlas Duke University Press

The web of geological sciences, Special papers 500 and 523, written in celebration of the 125th anniversary of the Geological Society of America.

The Earth: A Very Short Introduction National Academies Press

The web of geological sciences, Special papers 500 and 523, written in celebration of the 125th anniversary of the Geological Society of America.

*Phenology: An Integrative*

*Environmental Science* Routledge

Debates in Geography Education encourages early career teachers, experienced teachers

and teacher educators to engage with and reflect on key issues, concepts and debates. It aims to enable readers to reach their own informed judgements with deeper theoretical knowledge and understanding. The second edition is fully updated in light of the latest research, policy and practice in the field, as well as key changes to the curriculum and examination specifications. Expert contributors provide a range of perspectives on international, historical and policy contexts in order to deepen our understanding of significant debates in geography education. Key debates include: geography's identity as an academic discipline;

what constitutes knowledge in geography; places and regional geography; what it means to think geographically; constructing the curriculum; how we link assessment to making progress in geography; the contribution of fieldwork and outdoor experiences; technology and the use of Geographical Information; school geography and employability; understanding the gap between school and university geography; evidence-based practice and research in geography education. The comprehensive, rigorous coverage of these key issues, together with carefully annotated selected further reading, will

help support and shape further research and writing. Debates in Geography Education is a key resource that is essential reading for all teachers and researches who wish to extend their grasp of the place of geography in education. Mark Jones is Senior Lecturer in Education at the University of the West of England, Bristol, UK David Lambert is Professor of Geography Education at UCL Institute of Education, London, UK

Provisional Cities  
Cornell University Press

Volcanic eruptions are common, with more than 50 volcanic eruptions in the United States alone in the past 31 years. These eruptions can have devastating economic and social consequences, even at

great distances from the volcano. Fortunately many eruptions are preceded by unrest that can be detected using ground, airborne, and spaceborne instruments. Data from these instruments, combined with basic understanding of how volcanoes work, form the basis for forecasting eruptions—where, when, how big, how long, and the consequences. Accurate forecasts of the likelihood and magnitude of an eruption in a specified timeframe are rooted in a scientific understanding of the processes that govern the storage, ascent, and eruption of magma. Yet our understanding of volcanic systems is



incomplete and biased by the limited number of volcanoes and eruption styles observed with advanced instrumentation.

Volcanic Eruptions and Their Repose, Unrest, Precursors, and Timing identifies key science questions, research and observation priorities, and approaches for building a volcano science community capable of tackling them. This report presents goals for making major advances in volcano science.

#### Scottish Education

Oxford University Press See the world in the pages of this fully revised and updated atlas that brings the Earth to life with state-of-the-art mapping and up-to-date satellite images. Student World

Atlas brings an unparalleled insight into the geography of our amazing planet. Learn about Earth's physical structure, oceans, and climate. Hop from one region to another and get familiar with their main industries and economy. Each country in this comprehensive book also has a detailed world fact file that presents key statistical data, where you can find out what languages are spoken, compare the populations between nations, and find out who are the world leaders in certain areas of trade or technology. You can also study the section on map skills to learn how maps are made and become a master at reading them to get the best out of this atlas.

Student World Atlas is an essential reference tool and a key addition to every student's library.

**Manual of Digital Earth**

Univ of California Press  
Students taking undergraduate degrees in geography, ecology, earth science, and environmental science frequently take an introductory unit in Physical Geography. Some will have not done any geography since their early teens, while others have more recent knowledge. This range of backgrounds can be challenging for both the instructor and the student, this primer aims to help. A primer is a readable introduction to a subject, more technical than a piece of popular science, but less detailed than a

specialist textbook. It aims to give the reader a platform in a subject with which they may be unfamiliar, so that they can proceed simultaneously, or sequentially, to more advanced texts and information. Ideally the primer should have something for those without any knowledge, while also challenge and entertaining those who do. Not quite bedtime reading, but a step in that direction. Our Dynamic Earth introduces students to the Earth's origins, to plate tectonics, atmospheric and oceanographic circulation, as well as to a range of Earth surface processes. Idea to get you started in your studies.

The Social Lives of Land John Wiley & Sons

In astonishing and unflinching detail, a noted science journalist explains how Earth's climate will be impacted with every degree of increase in global warming--and what can be done about it now.

**Student Atlas, 7th Edition**

Duke University Press

Phenology is the study of plant and animal life cycle events, which are triggered by environmental changes, especially temperature. Wide ranges of phenomena are included, from first openings of leaf and flower buds, to insect hatchings and return of birds. Each one gives a ready measure of the environment as viewed by the associated organism. Thus, phenological events are ideal indicators of

the impact of local and global changes in weather and climate on the earth's biosphere. Assessing our changing world is a complex task that requires close cooperation from experts in biology, climatology, ecology, geography, oceanography, remote sensing and other areas. This book is a synthesis of current phenological knowledge, designed as a primer on the field for global change and general scientists, students and interested members of the public. With contributions from a diverse group of over fifty phenological experts, covering data collection, current research, methods and applications, it demonstrates the accomplishments and

potential of phenology as an integrative environmental science.

Best Sellers - Books :

- [The 48 Laws Of Power By Robert Greene](#)
- [If Animals Kissed Good Night](#)
- [Things We Hide From The Light \(knockemout Series, 2\) By Lucy Score](#)
- [Playground](#)
- [Regretting You By Colleen Hoover](#)
- [The Housemaid](#)
- [The Going To Bed Book By Sandra Boynton](#)
- [It Starts With Us: A Novel \(2\) \(it Ends With Us\) By Colleen Hoover](#)
- [The Covenant Of Water \(oprah's Book Club\)](#)
- [Atomic Habits: An Easy & Proven Way To Build Good Habits & Break Bad Ones](#)