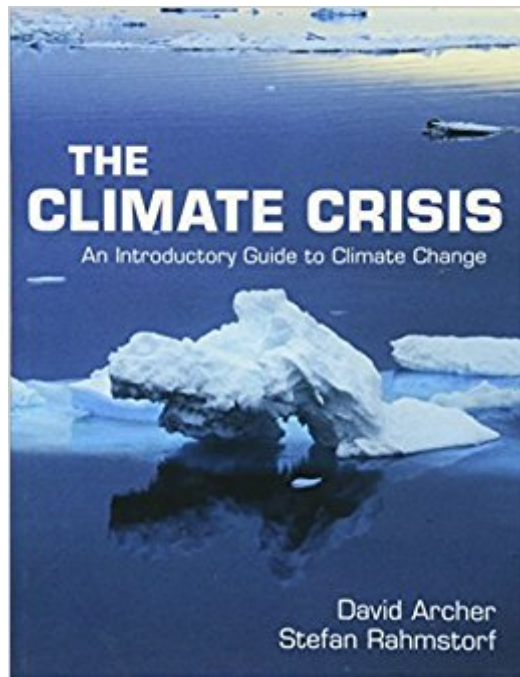




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The Climate Crisis: An Introductory Guide To Climate Change



Synopsis

An incredible wealth of scientific data on global warming has been collected in the last few decades. The history of the Earth's climate has been probed by drilling into polar ice sheets and sediment layers of the oceans' vast depths, and great advances have been made in computer modeling of our climate. This book provides a concise and accessible overview of what we know about ongoing climate change and its impacts, and what we can do to confront the climate crisis. Using clear and simple graphics in full color, it lucidly highlights information contained in the Intergovernmental Panel on Climate Change reports, and brings the subject completely up-to-date with current science and policy. The book makes essential scientific information on this critical topic accessible to a broad audience. Obtaining sound information is the first step in preventing a serious, long-lasting degradation of our planet's climate, helping to ensure our future survival.

Book Information

Paperback: 260 pages

Publisher: Cambridge University Press; 1 edition (January 29, 2010)

Language: English

ISBN-10: 0521732557

ISBN-13: 978-0521732550

Product Dimensions: 7.4 x 0.5 x 9.7 inches

Shipping Weight: 1.3 pounds (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 stars 23 customer reviews

Best Sellers Rank: #344,412 in Books (See Top 100 in Books) #308 in Books > Science & Math > Earth Sciences > Rivers #411 in Books > Science & Math > Earth Sciences > Weather #442 in Books > Science & Math > Earth Sciences > Climatology

Customer Reviews

'David Archer and Stefan Rahmstorf - two outstanding scientists - bring us up-to-date on climate science in this remarkable and very readable book. This book deserves to be read by anyone interested in climate change.' Professor Paul Crutzen, Max Plank Institute for Chemistry, winner of the Nobel Prize for Chemistry, 1995, for explaining the ozone hole'The key findings of the IPCC, written in plain and simple terms. Great value in informing the public at large about the science underlying the growing challenge of climate change.' Rajendra Pachauri, Chairman of the IPCC and Director-General of The Energy Resources Institute'Both scientists contributed to IPCC(1997) Vol. 1, and are well qualified to write on this topic. Neither of them is a sceptic. As the subtitle An

introductory Guide implies, the book is suitable for undergraduates and first-year graduate students.' CMOS Bulletin"... well written ... This book should be read by anyone who is interested in climate change but does not have the time or commitment to read the IPCC reports." Eos

This book provides a concise and accessible overview of what we know about ongoing climate change and its impacts, and what we can do to confront the climate crisis. Highly illustrated in full colour, it lucidly presents information contained in the Intergovernmental Panel on Climate Change reports, making essential scientific information on this critical topic available to a broad audience.

The IPCC AR4 report too technical for you? Want to learn about the climate change? Then this is a good book for you. "The Climate Crisis: An Introductory Guide to Climate Change" by climatologists David Archer and Stefan Rahmstorf was published this year and does a decent job of explaining the status of climate science to non-scientists. That doesn't mean the book isn't technical. It is chock full of color graphics, charts, tables, and photographs documenting every aspect of climate science. But the authors work hard to present the information in language that educated non-scientists and scientists and professionals in other fields can more readily understand. Overall they accomplish this goal, though I do think that parts of the book are still technical enough to confuse your "average Joe." Conversely, I don't think they explain some of the charts well enough - there is a tendency to have a narrative and reference a chart or graph, but then not explain the graph in detail. This is intentional as the book is designed to communicate the information on a level that non-climatologists can understand, but I did find myself wanting to drill into the figures more than was enabled. Still, these are minor quibbles and I find the book to be a very useful addition to the reading list of anyone interested in the topic of global warming or climate change. The authors are both practicing climatologists and professors of climate science. Rahmstorf was one of the lead authors in the most recent IPCC Fourth Assessment Report (called AR4). Both contribute to the RealClimate.org blog on the topic. The book itself focuses on the state of the science and looks at what evidence of climate change we have already seen, what is happening with snow and ice in various parts of the world, how the oceans are changing, and how climate is measured. They also have chapters on what we might see in the future with respect to climate change, impacts of those changes, and how we can avoid the worst of it. They briefly touch on climate policy in the last chapter, but they focus on the need for action, the global nature of the cooperation required, and the differences between developed and developing nations, rather than discussing any specific policy solution. I definitely recommend the book. Readers will find it both informative and enlightening.

Climate scientists David Archer and Stefan Rahmstorf's "The Climate Crisis" is an authoritative introduction to the science behind the theory of climate change. It provides a tutorial on the physics, findings, predictions, and ramifications to the earth and humanity of "BAU" aka "business as usual". reader David K provides an excellent description of the book in his reader review so I won't attempt to match his outstanding effort. Instead I'll focus on this book's relevancy given it's been four years since the last IPCC synthesis report was published which is the dominant basis of the scientific findings and predictions for this book. Obviously the climate science community had to rely on what they'd discovered prior to that year; but they've also made enormous progress since then; so, is there a more relevant tutorial that incorporates findings since 2007? I went through 's top 50 sellers for climatology looking for a more up-to-date tutorial and would argue there is none, this book remains the standard-bearer where only James Hansen's book, "Storms of My Grandchildren: The Truth About the Coming Climate Catastrophe and Our Last Chance to Save Humanity", appears to approach the volume of findings, physics, and explanations contained in this book though at a mere fraction. That's because Dr. Hansen's book also focuses on his own hypotheses that are not [perhaps yet] peer-accepted, e.g., "The Venus Syndrome". He also covers some of the history of the American political debate from his perspective as a primary player and writes about his personal public policy prescriptions. In addition to sticking more with the peer-consensus science, Archer and Rahmstorf published more graphical illustrations, provide a far more comprehensive review of the science, and are far better about citing their assertions. I recommend the Hansen book, but only after the reader first understand the basic physics of the earth's climate and the consensus perspective that is the basis of this subject book. Lastly Archer and Rahmstorf do present some findings published after the 2007 IPCC report and prior to this book's Jan-2010 publication date. One disappointing observation that I find concerning reviewing publications like this book, the IPCC's reports (this book uses the same graphs and illustrations as the IPCC reports), and that of Dr. Hansen's book which mostly come from NASA's Goddard Institute for Space Science ("GISS"), a leading research center of the climate, is the lack of - and amateurish quality of graphs published by the climate science community. From my perspective the threat of global warming at least equals and perhaps far surpasses the threats to humanity's well-being posed by the Cold War and authoritarian movements of the 20th century. And yet reading the reports out of the leading centers for climate science and the global community's synthesis reports suggests these scientists are operating on shoe-string budgets far below the importance of the subject matter. My observation is especially relevant when it comes to communicating science's predictions of current and projected

harm and when illustrated, is done so amateurishly. Any successful top Fortune 50 company does a far better job using graphics and other media beyond text to better communicate and reinforce their message with the public, in spite of the fact none of those companies' criticality even remotely approaches the importance of this issue. I don't expect climate scientists to be graphical artists, I would instead expect our governments to take this seriously enough to adequately fund their ability to effectively communicate to the public where I find this a major failing by policy makers. [A failure that doesn't even remotely approach the rank immorality of American conservatives denying the reality of global warming.]The radiative forcing graph is an example of a good graph, along with color-legend maps of warming anomalies, however the well-done graphs are relatively rare while complex ideas begging for illustrations remain skant. So while I can't help readers with the lack of quality graphical presentations to better communicate the predicted implications to the earth and humans, I will use the comment section of my review to link to some recent scientific findings that will help bring the reader more up-to-speed to what the climate science community's peer-review findings now explain and predict since the 2007 IPCC report.

If you want an authoritative source on climate science, of course you could go to the IPCC Reports. That assumes, of course, that you're willing to plow through hundreds and hundreds of pages of detailed information. Now, there's a good alternative. The Climate Crisis is a clear, accessible introduction to everything we know about the earth's climate. The authors are leading scientists at the University of Chicago and the Potsdam Institute for Impact Research. There are lots of vivid maps and charts to accompany the crisp, straightforward prose.

Nice introduction to the science & evidence for climate and climate change. It provides the requisite background for delving into IPCC documents. It needs to be updated to 2014.

This is very much about the science. Being a non-scientist, is clear and I kept up with it. A good read if you want to get a handle on the science. The recommendations a little out of date.

Great product; great seller.

Having just read a large number of books on the subject of Climate Change I can vouch that this is by far the best one. Written by two top scientists who participate in the work of the IPCC it gives you the knowledge of thousands of thousands of IPCC reports in a nutshell without oversimplification.

On the contrary--the authors actually correct some of the information in the original reports and contextualize it. They use lots of helpful graphs, photos and tables to explain what we do and also what we do not yet know about the reasons for and consequences of climate change. Everybody should read this book! It's worthy of a lot more than five stars.

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