

# Climate Changed A Personal Journey Through The Science Philippe Squarzoni

From a millennial climate activist, an exploration of how young people live in the shadow of catastrophe “Strikingly perceptive.” —Jenny Offill, author of *Weather* “Beautifully rendered and bracingly honest.” —Jenny Odell, author of *How to Do Nothing* Warmth is a new kind of book about climate change: not what it is or how we solve it, but how it feels to imagine a future--and a family--under its weight. In a fiercely personal account written from inside the climate movement, Sherrell lays bare how the crisis is transforming our relationships to time, to hope, and to each other. At once a memoir, a love letter, and an electric work of criticism, *Warmth* goes to the heart of the defining question of our time: how do we go on in a world that may not?

A beautiful and engaging guide to global warming's impacts around the world “The direction in which our planet is headed isn't a good one, and most of us don't know how to change it. The bad news is that we will experience great loss. The good news is that we already have what we need to build a better future.” —from the introduction Our planet is in peril. Seas are rising, oceans are acidifying, ice is melting, coasts are flooding, species are dying, and communities are faltering. Despite these dire circumstances, most of us don't have a clear sense of how the interconnected crises in our ocean are affecting the climate system, food webs, coastal cities, and biodiversity, and which solutions can help us co-create a better future. Through a rich combination of place-based storytelling, clear explanations of climate science and policy, and beautifully rendered maps that use a unique ink-on-dried-seaweed technique, *The Atlas of Disappearing Places* depicts twenty locations across the globe, from Shanghai and Antarctica to Houston and the Cook Islands. The authors describe four climate change impacts—changing chemistry, warming waters, strengthening storms, and rising seas—using the metaphor of the ocean as a body to draw parallels between natural systems and human systems. Each chapter paints a portrait of an existential threat in a particular place, detailing what will be lost if we do not take bold action now. Weaving together contemporary stories and speculative “future histories” for each place, this work considers both the serious consequences if we continue to pursue business as usual, and what we can do—from government policies to grassroots activism—to write a different, more hopeful story. A beautiful work of art and an indispensable resource to learn more about the devastating consequences of the climate crisis—as well as possibilities for individual and collective action—*The Atlas of Disappearing Places* will engage and inspire readers on the most pressing issue of our time. Locations include: Houston, Texas Shanghai, China Hamburg, Germany San Juan, Puerto Rico New York City, New York Pisco, Peru Kisite, Kenya Kure Atoll, Hawaii Camden, Maine The Cook Islands San Francisco, California Norfolk, Virginia B?n Tre, Vietnam Ise, Japan Gravesend, United Kingdom

Life on 1/10th the fossil fuels turns out to be awesome. We all want to be happy. Yet as we consume ever more in a frantic bid for happiness, global warming worsens. Alarmed by drastic changes now occurring in the Earth's climate systems, the author, a climate scientist and suburban father of two, embarked on a journey to change his life and the world. He began by bicycling, growing food, meditating, and making other simple, fulfilling changes. Ultimately, he slashed his climate impact to under a tenth of the US average and became happier in the process. *Being the Change* explores the connections between our individual daily actions and our collective predicament. It merges science, spirituality, and practical action to develop a satisfying and appropriate response to global warming. Part one exposes our interconnected predicament: overpopulation, global warming, industrial agriculture, growth-addicted economics, a sold-out political system, and a mindset of

separation from nature. It also includes a readable but authoritative overview of climate science. Part two offers a response at once obvious and unprecedented: mindfully opting out of this broken system and aligning our daily lives with the biosphere. The core message is deeply optimistic: living without fossil fuels is not only possible, it can be better. Peter Kalmus is an atmospheric scientist at Caltech / Jet Propulsion Laboratory with a Ph.D. in physics from Columbia University. He lives in suburban Altadena, California with his wife and two children on 1/10th the fossil fuels of the average American. Peter speaks purely on his own behalf, not on behalf of NASA or Jet Propulsion Laboratory. A graphic novel offers an up-to-date look at our planet and how we live on it and explains what global warming is all about. Original.

Climate Changed A Personal Journey through the Science Abrams

A new edition of the book that launched Elizabeth Kolbert's career as an environmental writer—updated with three new chapters, making it, yet again, "irreplaceable" (Boston Globe). Elizabeth Kolbert's environmental classic *Field Notes from a Catastrophe* first developed out of a groundbreaking, National Magazine Award-winning three-part series in *The New Yorker*. She expanded it into a still-concise yet richly researched and damning book about climate change: a primer on the greatest challenge facing the world today. But in the years since, the story has continued to develop; the situation has become more dire, even as our understanding grows. Now, Kolbert returns to the defining book of her career. She has added a chapter bringing things up-to-date on the existing text, plus three new chapters—on ocean acidification, the tar sands, and a Danish town that's gone carbon neutral—making it, again, a must-read for our moment.

Climate change has become one of the most polarizing issues of our time. Extremists on the left regularly issue hyperbolic jeremiads about the impending destruction of the environment, while extremists on the right counter with crass, tortured denials. But out in the vast middle are ordinary people dealing with stronger storms and more intense droughts than they've ever known. This middle ground is the focus of *Betting the Farm on a Drought*, a lively, thought-provoking book that lays out the whole story of climate change—the science, the math, and most importantly, the human stories of people fighting both the climate and their own deeply held beliefs to find creative solutions to a host of environmental challenges. Seamus McGraw takes us on a trip along America's culturally fractured back roads and listens to farmers and ranchers and fishermen, many of them people who are not ideologically, politically, or in some cases even religiously inclined to believe in man-made global climate change. He shows us how they are already being affected and the risks they are already taking on a personal level to deal with extreme weather and its very real consequences for their livelihoods. McGraw also speaks to scientists and policymakers who are trying to harness that most renewable of American resources, a sense of hope and self-reliance that remains strong in the face of daunting challenges. By bringing these voices together, *Betting the Farm on a Drought* ultimately becomes a model for how we all might have a pragmatic, reasoned conversation about our changing climate.

*Faith-Based Solutions to Caring for the Earth* Climate change is a confusing and polarizing issue. It may also prove to be the most daunting challenge of this century because children, the elderly, and the poor will be the first to feel its effects. The issue is all over the news, but what is seldom heard is a conservative, evangelical perspective. Connecting the dots between science and faith, this book explores the climate debate and how Christians can take the lead in caring for God's creation. The authors answer top questions such as "What's really happening?" and "Who can we trust?" and discuss stewarding the earth in light of evangelical values. "Acting on climate change is not about political agendas," they say. "It's about our kids. It's about being a disciple of Jesus Christ." Capping off this empowering book are practical, simple ideas for improving our environment and helping our families and those around us.

Flipping the script on climate change, Eisenstein makes a case for a wholesale reimagining of the framing, tactics, and goals we employ in our journey to heal from ecological destruction. With research and insight, Charles Eisenstein details how the quantification of the natural world leads to a lack of integration and our “fight” mentality. With an entire chapter unpacking the climate change denier’s point of view, he advocates for expanding our exclusive focus on carbon emissions to see the broader picture beyond our short-sighted and incomplete approach. The rivers, forests, and creatures of the natural and material world are sacred and valuable in their own right, not simply for carbon credits or preventing the extinction of one species versus another. After all, when you ask someone why they first became an environmentalist, they’re likely to point to the river they played in, the ocean they visited, the wild animals they observed, or the trees they climbed when they were a kid. This refocusing away from impending catastrophe and our inevitable doom cultivates meaningful emotional and psychological connections and provides real, actionable steps to caring for the earth. Freeing ourselves from a war mentality and seeing the bigger picture of how everything from prison reform to saving the whales can contribute to our planetary ecological health, we resist reflexive postures of solution and blame and reach toward the deep place where commitment lives.

A riveting, urgent account of the explorers and scientists racing to understand the rapidly melting ice sheet in Greenland, a dramatic harbinger of climate change "Jon Gertner takes readers to spots few journalists or even explorers have visited. The result is a gripping and important book."--Elizabeth Kolbert, Pulitzer Prize-winning author of *The Sixth Extinction* NAMED ONE OF THE BEST BOOKS OF THE YEAR BY *The Washington Post* \* *The Christian Science Monitor* \* *Library Journal* Greenland: a remote, mysterious island five times the size of California but with a population of just 56,000. The ice sheet that covers it is 700 miles wide and 1,500 miles long, and is composed of nearly three quadrillion tons of ice. For the last 150 years, explorers and scientists have sought to understand Greenland--at first hoping that it would serve as a gateway to the North Pole, and later coming to realize that it contained essential information about our climate. Locked within this vast and frozen white desert are some of the most profound secrets about our planet and its future. Greenland's ice doesn't just tell us where we've been. More urgently, it tells us where we're headed. In *The Ice at the End of the World*, Jon Gertner explains how Greenland has evolved from one of earth's last frontiers to its largest scientific laboratory. The history of Greenland's ice begins with the explorers who arrived here at the turn of the twentieth century--first on foot, then on skis, then on crude, motorized sleds--and embarked on grueling expeditions that took as long as a year and often ended in frostbitten tragedy. Their original goal was simple: to conquer Greenland's seemingly infinite interior. Yet their efforts eventually gave way to scientists who built lonely encampments out on the ice and began drilling--one mile, two miles down. Their aim was to pull up ice cores that could reveal the deepest mysteries of earth's past, going back hundreds of thousands of years. Today, scientists from all over the world are deploying every technological tool available to uncover the secrets of this frozen island before it's too late. As Greenland's ice melts and runs off into the sea, it not only threatens to affect hundreds of millions of people who live in coastal areas. It will also have drastic effects on ocean currents, weather systems, economies, and migration patterns. Gertner chronicles the unfathomable hardships, amazing discoveries, and scientific

achievements of the Arctic's explorers and researchers with a transporting, deeply intelligent style--and a keen sense of what this work means for the rest of us. The melting ice sheet in Greenland is, in a way, an analog for time. It contains the past. It reflects the present. It can also tell us how much time we might have left.

A mariner appears on a park bench and begins his tale. Cursed by an albatross he slew whilst hunting whales, the mariner and his crew find themselves stranded within the North Pacific Garbage Patch: a vast, hypoxic, slow-whirling maelstrom of plastic waste; a hidden repository for the world's litter. Along the way, he meets various characters of our current environmental tragedy: a lady made of oil, a deserted ghost-ship drilling barge, a 2-inch salp (the human race's oceanic ancestor), a blue whale and a hermit. Nostradamus, Cassandra, Medusa, Poseidon, Thor, Gaia, Al-Javari, Mephistopheles and a buzzard also make cameo appearances.

A journalist travels the world to collect personal stories about how flood, fire, drought, and rising seas are changing communities. "Hope Jahren is the voice that science has been waiting for." —Nature "A superb account of the deadly struggle between humanity and what may prove the only life-bearing planet within ten light years, written in a brilliantly sardonic and conversational style." —E. O. Wilson "Hope Jahren asks the central question of our time: how can we learn to live on a finite planet? The Story of More is thoughtful, informative, and—above all—essential." —Elizabeth Kolbert, author of *The Sixth Extinction* Hope Jahren is an award-winning scientist, a brilliant writer, a passionate teacher, and one of the seven billion people with whom we share this earth. In *The Story of More*, she illuminates the link between human habits and our imperiled planet. In concise, highly readable chapters, she takes us through the science behind the key inventions—from electric power to large-scale farming to automobiles—that, even as they help us, release greenhouse gases into the atmosphere like never before. She explains the current and projected consequences of global warming—from superstorms to rising sea levels—and the actions that we all can take to fight back. At once an explainer on the mechanisms of global change and a lively, personal narrative given to us in Jahren's inimitable voice, *The Story of More* is the essential pocket primer on climate change that will leave an indelible impact on everyone who reads it.

What are the causes and consequences of climate change? When the scale is so big, can an individual make any difference? Documentary, diary, and masterwork graphic novel, this up-to-date look at our planet and how we live on it explains what global warming is all about. With the most complicated concepts made clear in a feat of investigative journalism by artist Philippe Squarzoni, *Climate Changed* weaves together scientific research, extensive interviews with experts, and a call for action. Weighing the potential of some solutions and the false promises of others, this groundbreaking work provides a realistic, balanced view of the magnitude of the crisis that *An Inconvenient Truth* only touched on. *Climate Changed* is printed on FSC-certified paper from responsibly-managed, environmentally-sound sources. Find teaching guides for *Climate Changed* and other titles at [abramsbooks.com/resources](http://abramsbooks.com/resources).

'Will open the minds of even the most ardent denier of climate change and/or systemic racism. If there's one book that will help you to be an effective activist for climate justice, it's this one.' Dr Shola Mos-Shogbamimu 'Accessible. Poignant. Challenging.'

Nnimmo Bassey, environmentalist and author of *To Cook a Continent: Destructive Extraction and the Climate Crisis in Africa* When we talk about racism, we often mean personal prejudice or institutional biases. Climate change doesn't work that way. It is structurally racist, disproportionately caused by majority White people in majority White countries, with the damage unleashed overwhelmingly on people of colour. The climate crisis reflects and reinforces racial injustices. In this eye-opening book, writer and environmental activist Jeremy Williams takes us on a short, urgent journey across the globe – from Kenya to India, the USA to Australia – to understand how White privilege and climate change overlap. We'll look at the environmental facts, hear the experiences of the people most affected on our planet and learn from the activists leading the change. It's time for each of us to find our place in the global struggle for justice.

\* INSTANT NATIONAL BESTSELLER \* Amazon Editors' Pick for Best Book of the Year in Fiction "Visceral and haunting" (New York Times Book Review) · "Hopeful" (Washington Post) · "Powerful" (Los Angeles Times) · "Thrilling" (TIME) · "Tantalizingly beautiful" (Elle) · "Suspenseful, atmospheric" (Vogue) · "Aching and poignant" (Guardian) · "Gripping" (The Economist) Franny Stone has always been the kind of woman who is able to love but unable to stay. Leaving behind everything but her research gear, she arrives in Greenland with a singular purpose: to follow the last Arctic terns in the world on what might be their final migration to Antarctica. Franny talks her way onto a fishing boat, and she and the crew set sail, traveling ever further from shore and safety. But as Franny's history begins to unspool—a passionate love affair, an absent family, a devastating crime—it becomes clear that she is chasing more than just the birds. When Franny's dark secrets catch up with her, how much is she willing to risk for one more chance at redemption? Epic and intimate, heartbreaking and galvanizing, Charlotte McConaghy's *Migrations* is an ode to a disappearing world and a breathtaking page-turner about the possibility of hope against all odds.

\* 25% of greenhouse gas emissions come from food - how can we reduce this? \* What effect does the food we eat have on the environment? \* How will climate change affect the food we will eat in the future? \* Can the choices we make as consumers reduce carbon emissions dramatically? Inspired by the author's former mentor David MacKay (*Sustainable Energy without the Hot Air*), *Food and Climate Change* is a rigorously researched discussion of how food and climate change are intimately connected. In this ground-breaking and accessible work, Prof Sarah Bridle focuses on facts rather than emotive descriptions. Highly illustrated in full colour throughout, the book explains how anyone can reduce the climate impact of their food.

A number of extreme weather events have struck the Northern Hemisphere in recent years, from scorching heatwaves to desperately cold winters, and from floods and storms to droughts and wildfires. These events have fuelled intense discussions in scientific conferences, government agencies, cafes, and on street corners around the world. Why are these events happening? Is this the emerging signal of climate change, and should we expect more of this? Media reports vary widely, but one mysterious agent has risen to prominence in many cases: the jet stream. The story begins

on a windswept beach in Barbados, from where we follow the ascent of a weather balloon that will travel along the jet stream all around the world. From this viewpoint we observe the effect of the jet in influencing human life around the hemisphere, and witness startling changes emerging. What is the jet stream and how well do we understand it? How does it affect our weather and is it changing? These are the main questions tackled in this book. We learn about how our view of the wind has developed from Aristotle's early theories up to today's understanding. We see that the jet is intimately connected with dramatic contrasts between climate zones and has played a key historical role in determining patterns of trade. We learn about the basic physics underlying the jet and how this knowledge is incorporated into computer models which predict both tomorrow's weather and the climate of future decades. And finally, we discuss how climate change is expected to affect the jet, and introduce the vital scientific debate over whether these changes have contributed to recent extreme weather events.

A call to action from Jane Fonda, one of the most inspiring activists of our time, urging us to wake up to the looming disaster of climate change and equipping us with the tools we need to join her in protest "This is the last possible moment in history when changing course can mean saving lives and species on an unimaginable scale. It's too late for moderation." In the fall of 2019, frustrated with the obvious inaction of politicians and inspired by Greta Thunberg, Naomi Klein, and student climate strikers, Jane Fonda moved to Washington, D.C., to lead weekly climate change demonstrations on Capitol Hill. On October 11, she launched Fire Drill Fridays, and has since led thousands of people in nonviolent civil disobedience, risking arrest to protest for action. In *What Can I Do?*, Fonda weaves her deeply personal journey as an activist alongside conversations with and speeches by leading climate scientists and inspiring community organizers, and dives deep into the issues, such as water, migration, and human rights, to emphasize what is at stake. Most significantly, Fonda equips us all with the tools we need to join her in protest, so that everyone can work to combat the climate crisis. No stranger to protest, Fonda's life has been famously shaped by activism. And now she is once again galvanizing the public to take to the streets. Many are already aware of the looming disaster of climate change and realize that a moral responsibility rests on our shoulders. In 2019, we saw atmospheric concentrations of greenhouse gases hit the highest level ever recorded in human history, and our window of opportunity to act is quickly closing. We are facing a climate crisis, but we're also facing an empathy crisis and an inequality crisis; the surge of protests over police violence against black Americans has once again highlighted the links between racism and environmental degradation in our country. It isn't only earth's life-support systems that are unraveling. So too is our social fabric. This is going to take an all-out war on drilling and fracking and deregulation and racism and misogyny and colonialism and despair all at the same time. As Annie Leonard, executive director of Greenpeace USA and Fonda's partner in

developing Fire Drill Fridays, has declared, "Change is inevitable; by design, or by disaster." Together, we can commandeer change for the positive--but it will require collective actions taken by social movements on an unprecedented scale. The problems we face now require every one of us to join the fight. The fight for not only our immediate future, but for the future of generations to come. 100% of the author's net proceeds from *What Can I Do?* will go to Greenpeace

This "gorgeously written" National Book Award finalist is a dazzling, heart-rending story of an oil rig worker whose closest friend goes missing, plunging him into isolation and forcing him to confront his past (NPR, One of the Best Books of the Year). One night aboard an oil drilling platform in the Atlantic, Waclaw returns to his cabin to find that his bunkmate and companion, Mátyás, has gone missing. A search of the rig confirms his fear that Mátyás has fallen into the sea. Grief-stricken, he embarks on an epic emotional and physical journey that takes him to Morocco, to Budapest and Mátyás's hometown in Hungary, to Malta, Italy, and finally to the mining town of his childhood in Germany. Waclaw's encounters along the way with other lost and yearning souls—Mátyás's angry, grieving half-sister; lonely rig workers on shore leave; a truck driver who watches the world change from his driver's seat—bring us closer to his origins while also revealing the problems of a globalized economy dependent on waning natural resources. *High as the Waters Rise* is a stirring exploration of male intimacy, the nature of memory and grief, and the cost of freedom—the story of a man who stands at the margins of a society from which he has profited little, though its functioning depends on his labor.

Climate change is not 'a problem' waiting for 'a solution'. It is an environmental, cultural and political phenomenon which is re-shaping the way we think about ourselves, our societies and humanity's place on Earth. Drawing upon twenty-five years of professional work as an international climate change scientist and public commentator, Mike Hulme provides a unique insider's account of the emergence of this phenomenon and the diverse ways in which it is understood. He uses different standpoints from science, economics, faith, psychology, communication, sociology, politics and development to explain why we disagree about climate change. In this way he shows that climate change, far from being simply an 'issue' or a 'threat', can act as a catalyst to revise our perception of our place in the world. *Why We Disagree About Climate Change* is an important contribution to the ongoing debate over climate change and its likely impact on our lives.

Grace and her friends must protect a newly hatched dragon from mysterious evildoers. When Grace moves to Hong Kong with her mom and new stepdad, her biggest concern is making friends at her fancy new boarding school. But when a mysterious old woman gifts her a dragon egg during a field trip, Grace discovers that the wonderful stories of dragons she heard when she was a young girl might actually be real--especially when the egg hatches overnight. The dragon has immense powers that Grace has yet to understand. And that puts them both in danger from mysterious forces intent on

abusing the dragon's power. And now it's up to Grace and her school friends to uncover the sinister plot threatening the entire city!

Is our imagination adequate to the realities of global warming? The novelist Amitav Ghosh argues that we need art and literature to help us imagine our future in the Anthropocene, but that they are falling short of the task. If culture cannot help us see the realities of our plight, then our era, which so congratulates itself on its self-awareness, may come to be known as the time of the Great Derangement. A case in point is fiction, which is so committed to normalcy and the everyday that it has no space for the improbability of climate change events the persistent droughts, hundred-year storms, and freakish tornadoes. Our politics, likewise, seems unable to mobilize forcefully in response to climate change. Ghosh argues that politics, like literature, has become a matter of individual moral reckoning, a journey of the solitary conscience rather than an arena of collective action. But to limit fiction and politics to individual moral adventure comes at a great cost. The climate crisis asks us to imagine other forms of human existence a task to which fiction, Ghosh argues, is the best suited of all cultural forms. A powerful nonfiction work by one of our most gifted, historically attuned novelists, "The Great Derangement "brings a fresh urgency to thinking on climate change. "

An idealistic twenty-something environmentalist. A retired right-wing finance minister. All their lives, they've happily ignored each other. Until now. Anna Rose, environmental crusader since the age of fourteen and co-founder of the Australian Youth Climate Coalition, is on a mission. This is the story of her biggest challenge yet: a whirlwind journey around the world with conservative powerbroker and arch climate sceptic Nick Minchin. From a remote Hawaiian volcano to a cosmic ray laboratory in Geneva, Anna rolls out the biggest names in science to try and change Nick's mind. It's a journey to tell the story of what's happening to our climate—not just to one man, but to a nation divided on the biggest issue of our times. Nick and Anna challenge each other's views, provoking each other to confront closely held assumptions and question our responsibilities as citizens living in uncertain times.

Building grit and hope in the face of the climate emergency With catastrophic global warming already baked into the climate system, today's children face a future entirely unlike that of their parents. Yet how can we maintain hope and make a difference in the face of overwhelming evidence of the climate crisis? Help is at hand. Written by Harriet Shugarman – the Climate Mama and trusted advisor to parents – How to Talk to Your Kids About Climate Change provides tools and strategies for parents to explain the climate emergency to their children and galvanize positive action. Coverage includes: The unvarnished realities of the climate emergency, where we are at, and how we got here Strategies for talking to kids of different ages about the climate crisis, including advice from engaged parents on the ground How to maintain our own hope and that of our children A list of practical actions families can take to tackle the climate change crisis Ideas for helping children follow their passions in pursuit of a livable, just, and



sustainable world. A lifeline for parents who are feeling overwhelmed with fear and grief, this book provides both hope and practical ways to engage children in pursuit of a better world that is still possible.

What controls Earth's temperature? How do the changes happening now compare to those that have happened in the past? This book lays out how the makeup of Earth's atmosphere can affect everything living beneath it, and how human activities - from cutting down trees to burning fossil fuels - are changing the climate worldwide. Glaciers are melting. Summers are heating up. Sea levels are on the rise. Climate change is affecting every corner of our planet - and it's the subject of a lot of concern, activism, and debate. STEM meets current events in this new A True Book set that offers readers the chance to learn about the causes and effects of climate change, as well as how people around the world are reacting to it. Students will read about the history and scope of the problem, analyze the same kinds of evidence that scientists do, and come away with tools that will help them respond to this pressing global issue. This series covers Next Generation Science Standards core ideas including Weather and Climate, Human Impacts on Earth Systems, Conservation of Energy and Energy Transfer, and Biodiversity and Humans.

As a mythical creature, the whale has been responsible for many transformations in the world. It is an enchanting being that humans have long felt a connection to. In the contemporary environmental imagination, whales are charismatic megafauna feeding our environmentalism and aspirations for a better and more sustainable future. Using multispecies ethnography, *Whale Snow* explores how everyday the relatedness of the Iñupiat of Arctic Alaska and the bowhead whale forms and transforms "the human" through their encounters with modernity. *Whale Snow* shows how the people live in the world that intersects with other beings, how these connections came into being, and, most importantly, how such intimate and intense relations help humans survive the social challenges incurred by climate change. In this time of ecological transition, exploring multispecies relatedness is crucial as it keeps social capacities to adapt relational, elastic, and resilient. In the Arctic, climate, culture, and human resilience are connected through bowhead whaling. In *Whale Snow* we see how climate change disrupts this ancient practice and, in the process, affects a vital expression of Indigenous sovereignty. Ultimately, though, this book offers a story of hope grounded in multispecies resilience.

The warming of the Earth has been the subject of intense debate and concern for many scientists, policy-makers, and citizens for at least the past decade. *Climate Change Science: An Analysis of Some Key Questions*, a new report by a committee of the National Research Council, characterizes the global warming trend over the last 100 years, and examines what may be in store for the 21st century and the extent to which warming may be attributable to human activity.

How do we find courage when climate change overwhelms us emotionally? In this magical, often funny and deeply moving personal story, award-winning science reporter Jonica Newby explores how to navigate the emotional turmoil of climate change. After researching what global warming will do to the snow country she loves, Newby plummeted into a state of profound climate grief. And if she was struggling, she wondered, how was everyone else coping? What should parents tell their anxious kids? How might we all live our best lives under the weight of this fearsome knowledge? Then reality outstripped imagination as her family

was swept up in the apocalyptic 2020 fires. Featuring illuminating conversations with singer–songwriter Missy Higgins, comedians Charlie Pickering and Craig Reucassel and business leader Mike Cannon-Brookes, practical advice from psychological and scientific experts, incredible accounts from everyday heroes, plus inspiring stories from the climate strike kids, *Beyond Climate Grief* provides guidance and emotional sustenance to help shore up courage for the uncertainties ahead. It reminds us of the love, beauty and wonder in the world, even amidst disaster. And how we all have a touch of epic hero in us. ‘How do we talk about the things we can’t bear to think about? Jonica Newby finds a way with warmth, humour, honesty and stunning writing. An extraordinary book.’ — Charlie Pickering ‘Brilliantly researched, intensely personal and raw, this is the book we all need right now.’ — Jane Caro

From the desolate Arctic to the lush green Mekong Delta, go on a journey around the world to explore different cultures and climate change impact from a personal and local perspective.

**#1 NEW YORK TIMES BEST SELLER** • In this urgent, authoritative book, Bill Gates sets out a wide-ranging, practical—and accessible—plan for how the world can get to zero greenhouse gas emissions in time to avoid a climate catastrophe. Bill Gates has spent a decade investigating the causes and effects of climate change. With the help of experts in the fields of physics, chemistry, biology, engineering, political science, and finance, he has focused on what must be done in order to stop the planet's slide to certain environmental disaster. In this book, he not only explains why we need to work toward net-zero emissions of greenhouse gases, but also details what we need to do to achieve this profoundly important goal. He gives us a clear-eyed description of the challenges we face. Drawing on his understanding of innovation and what it takes to get new ideas into the market, he describes the areas in which technology is already helping to reduce emissions, where and how the current technology can be made to function more effectively, where breakthrough technologies are needed, and who is working on these essential innovations. Finally, he lays out a concrete, practical plan for achieving the goal of zero emissions—suggesting not only policies that governments should adopt, but what we as individuals can do to keep our government, our employers, and ourselves accountable in this crucial enterprise. As Bill Gates makes clear, achieving zero emissions will not be simple or easy to do, but if we follow the plan he sets out here, it is a goal firmly within our reach.

"...[offers] a hopeful, clear-eyed, and somehow also hilarious guide to effecting real change, starting in our own lives. Saving ourselves from climate apocalypse will require radical shifts within each of us, to effect real change in our society and culture."-- Barret Baumgart's literary debut presents a haunting and deeply personal portrait of civilization poised at the precipice, a picture of humanity caught between its deepest past and darkest future. In the fall of 2013, during the height of California's historic drought, Baumgart toured the remote military base, NAWS China Lake, near Death Valley, California. His mother, the survivor of a recent stroke, decided to come along for the ride. She hoped the alleged healing power of the base's ancient Native American hot springs might cure her crippling headaches. Baumgart sought to debunk claims that the military was spraying the atmosphere with toxic chemicals to control the weather. What follows is a discovery that threatens to sever not only the bonds between mother and

son but between planet Earth and life itself. Stalking the fringes of Internet conspiracy, speculative science, and contemporary archaeology, Baumgart weaves memoir, military history, and investigative journalism in a dizzying journey that carries him from the cornfields of Iowa to drought-riddled California, from the Vietnam jungle to the caves of prehistoric Europe and eventually the walls of the US Capitol, the sparkling white hallways of the Pentagon, and straight into the contradicted heart of a worldwide climate emergency.

Climate Change and the Course of Global History presents the first global study by a historian to fully integrate the earth-system approach of the new climate science with the material history of humanity. Part I argues that geological, environmental, and climatic history explain the pattern and pace of biological and human evolution. Part II explores the environmental circumstances of the rise of agriculture and the state in the Early and Mid-Holocene, and presents an analysis of human health from the Paleolithic through the rise of the state, including the Neolithic Demographic Transition. Part III introduces the problem of economic growth and examines the human condition in the Late Holocene from the Bronze Age through the Black Death, assessing the relationships among human technologies, climatic change, and epidemic disease. Part IV explores the move to modernity, stressing the emerging role of human economic and energy systems as earth-system agents in the Anthropocene. Supported by climatic, demographic, and economic data with forty-nine figures and tables custom-made for this book, A Rough Journey provides a pathbreaking model for historians of the environment, the world, and science, among many others.

"By the author of the award-winning To Be a Machine, a deeply considered look at the people and places in confrontation with the end of our days. We're alive in a time of worst-case scenarios: The weather has gone uncanny, volatile. Our old post-war alliances are crumbling. Everywhere you look there's an omen, a joke whose punchline is the end of the world. How are we to live in the shadow of such a grim future? What does the world hold for our children? What might it be like to live through the worst? And what is anybody doing about it? Dublin-based writer Mark O'Connell ("wryly humorous, cogently insightful"--NPR) is possessed by these questions. In Notes from an Apocalypse, he crosses the globe in pursuit of answers. He tours survival bunkers in South Dakota. He ventures to New Zealand, a favored retreat of billionaires banking on civilization's collapse. And he bears witness to those places where the future has already arrived--real-life portraits of the end of the world as we know it. In doing so, he offers us a unique window into our apocalyptic imagination. Part tour, part pilgrimage, Notes from an Apocalypse is an affecting and hopeful meditation on our alarming present tense. With insight, humanity, and wit, O'Connell leaves you to wonder: What if the end of the world isn't the end of the world?"--

Before you read this book, you have homework to do. Grab a notebook, go outside, and find a nearby patch of nature. What do you see, hear, feel, and smell? Are there bugs, birds, squirrels, deer, lizards, frogs, or fish, and what are they doing? What plants are in the vicinity, and in what ways are they growing? What shape are the rocks, what texture is the dirt, and what color are the bodies of water? Does the air feel hot or cold, wet or dry, windy or still? Everything you notice, write it all down. We know that the Earth's climate is changing, and that the magnitude of this change is colossal. At the same time, the world outside is still a natural

world, and one we can experience on a granular level every day. Ground Truth is a guide to living in this condition of changing nature, to paying attention instead of turning away, and to gathering facts from which a fuller understanding of the natural world can emerge over time. Featuring detailed guidance for keeping records of the plants, invertebrates, amphibians, birds, and mammals in your neighborhood, this book also ponders the value of everyday observations, probes the connections between seasons and climate change, and traces the history of phenology—the study and timing of natural events—and the uses to which it can be put. An expansive yet accessible book, Ground Truth invites readers to help lay the groundwork for a better understanding of the nature of change itself.

Many of us have concerns about the effects of climate change on Earth, but we often overlook the essential issue of human health. This book addresses that oversight and enlightens readers about the most important aspect of one of the greatest challenges of our time. The global environment is under massive stress from centuries of human industrialization. The projections regarding climate change for the next century and beyond are grim. The impact this will have on human health is tremendous, and we are only just now discovering what the long-term outcomes may be. By weighing in from a physician's perspective, Jay Lemery and Paul Auerbach clarify the science, dispel the myths, and help readers understand the threats of climate change to human health. No better argument exists for persuading people to care about climate change than a close look at its impacts on our physical and emotional well-being. The need has never been greater for a grounded, informative, and accessible discussion about this topic. In this groundbreaking book, the authors not only sound the alarm but address the health issues likely to arise in the coming years.

CLIMATE CHANGE and the road to NET-ZERO is a story of how humanity has broken free from the shackles of poverty, suffering, and war and for the first time in human history grown both population and prosperity. It's also a story of how a single species has reconfigured the natural world, repurposed the Earth's resources, and begun to re-engineer the climate. The book uses these conflicting narratives to explore the science, economics, technology, and politics of climate change. NET-ZERO blows away the entrenched idea that solving global warming requires a trade-off between the economy and environment, present and future generations, or rich and poor, and reveals why a twenty-year transition to a zero carbon system is a win-win solution for all on planet Earth. From the Author "I wrote Climate Change and the road to Net-Zero to provide a generalist reader with a clear, comprehensive, and objective take on the issues surrounding climate change and air pollution. The book walks the reader through a history of energy, innovation, and the rise of human civilisation; how scientists have come to understand our past climate and can now forecast future change; the problems economists encounter as they attempt to piece together the potential monetary and social damages from climate inaction; and a technology agnostic assessment of potential climate change solutions (from climate-engineering to mitigation) including their costs, risks, and limitations. The book demonstrates why sustainable technologies such as wind, solar, and batteries get cheaper with scale of production, not time, and why a rapid transition to a fully-fledged net-zero system will end up significantly cheaper than remaining bound to fossil fuels, whilst also avoiding the worst impacts of climate

change, and preventing nearly eight million premature deaths each year from air pollution. I hope Climate Change and the road to Net-Zero delivers an understanding of humanity's relationship with Earth that is as intriguing as Simon Lewis and Mark Maslin's *The Human Planet*, or Yuval Noah Harari's *Sapiens*. I very much hope too that the book conveys the passion and call to action of David Wallace-Well's *The Uninhabitable Earth*, coupled with the sober economic analysis of *The Climate Casino* by William Nordhaus or *Capital in the 21st century* by Thomas Piketty, and that it provides the technical rigour of *Sustainable Energy Without The Hot Air* by David MacKay, the rationality of Hans Rosling's *Factfulness*, and the eternal hope of *The Future We Choose* by Christiana Figueres and Tom Rivett-Carnac. I believe net-zero will be cheaper, cleaner, safer, more reliable, more sustainable, and will create more employment than if we remain bound to fossil fuels. After reading the book, I hope you will agree." Mathew Hampshire-Waugh, Author.

A practical and comprehensive guide to surviving the greatest disaster of our time, from New York Times bestselling self-help author and beloved CBS Sunday Morning science and technology correspondent David Pogue. You might not realize it, but we're already living through the beginnings of climate chaos. In Arizona, laborers now start their day at 3 a.m. because it's too hot to work past noon. Chinese investors are snapping up real estate in Canada. Millennials have evacuation plans. Moguls are building bunkers. Retirees in Miami are moving inland. In *How to Prepare for Climate Change*, bestselling self-help author David Pogue offers sensible, deeply researched advice for how the rest of us should start to ready ourselves for the years ahead. Pogue walks readers through what to grow, what to eat, how to build, how to insure, where to invest, how to prepare your children and pets, and even where to consider relocating when the time comes. (Two areas of the country, in particular, have the requisite cool temperatures, good hospitals, reliable access to water, and resilient infrastructure to serve as climate havens in the years ahead.) He also provides wise tips for managing your anxiety, as well as action plans for riding out every climate catastrophe, from superstorms and wildfires to ticks and epidemics. Timely and enlightening, *How to Prepare for Climate Change* is an indispensable guide for anyone who read *The Uninhabitable Earth* or *The Sixth Extinction* and wants to know how to make smart choices for the upheaval ahead.

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