

Clouds In The Perturbed Climate System Their Relat (Download Only)

Jost Heintzenberg, Robert J. Charlson

Climate Change 2013 - The Physical Science Basis Intergovernmental Panel on Climate Change, 2014-03-24 This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) will again form the standard scientific reference for all those concerned with climate change and its consequences, including students and researchers in environmental science, meteorology, climatology, biology, ecology and atmospheric chemistry. It provides invaluable material for decision makers and stakeholders: international, national, local; and in all branches: government, businesses, and NGOs. This volume provides: • An authoritative and unbiased overview of the physical science basis of climate change • A more extensive assessment of changes observed throughout the climate system than ever before • New dedicated chapters on sea-level change, biogeochemical cycles, clouds and aerosols, and regional climate phenomena • A more extensive coverage of model projections, both near-term and long-term climate projections • A detailed assessment of climate change observations, modelling, and attribution for every continent • A new comprehensive atlas of global and regional climate projections for 35 regions of the world

Fixing the Sky James Rodger Fleming, 2010-08-13 Weaving together stories from elite science, cutting-edge technology, and popular culture, Fleming examines issues of health and navigation in the 1830s, drought in the 1890s, aircraft safety in the 1930s, and world conflict since the 1940s.

Air Pollution Jeremy Colls, Abhishek Tiwary, 2017-07-12 A one stop, comprehensive textbook, covering the three essential components of air pollution science. The Third Edition has been updated with the latest developments, especially the inclusion of new information on the role of air pollutants in climate change. The authors give greater coverage to the developing economies around the world where air pollution problems are on the rise. The Third Edition continues to cover a wide range of air quality issues, retaining a quantitative perspective. Topics covered include - gaseous and particulate air pollutants, measurement techniques, meteorology and dispersion modelling, mobile sources, indoor air, effects on plants, materials, humans and animals. Moving away from classical toxic air pollutants, there is a chapter on climate change and another on the depletion of stratospheric ozone. A special feature of this new edition is the inclusion of a fresh chapter on air

pollution mitigation by vegetation, mainly its role in maintaining a sustainable urban environment. Recommended for upper-level undergraduate and postgraduate courses specialising in air pollution, both for environmental scientists and engineers. The new material included in the Third Edition extends its use by practitioners in consultancies or local authorities.

Shallow Clouds, Water Vapor, Circulation, and Climate Sensitivity Robert Pincus, David Winker, Sandrine Bony, Bjorn Stevens, 2018-05-29 This volume presents a series of overview articles arising from a workshop exploring the links among shallow clouds, water vapor, circulation, and climate sensitivity. It provides a state-of-the-art synthesis of understanding about the coupling of clouds and water vapor to the large-scale circulation. The emphasis is on two phenomena, namely the self-aggregation of deep convection and interactions between low clouds and the large-scale environment, with direct links to the sensitivity of climate to radiative perturbations. Each subject is approached using simulations, observations, and synthesizing theory; particular attention is paid to opportunities offered by new remote-sensing technologies, some still prospective. The collection provides a thorough grounding in topics representing one of the World Climate Research Program's Grand Challenges. Previously published in *Surveys in Geophysics*, Volume 38, Issue 6, 2017 The articles "Observing Convective Aggregation", "An Observational View of Relationships Between Moisture Aggregation, Cloud, and Radiative Heating Profiles", "Implications of Warm Rain in Shallow Cumulus and Congestus Clouds for Large-Scale Circulations", "A Survey of Precipitation-Induced Atmospheric Cold Pools over Oceans and Their Interactions with the Larger-Scale Environment", "Low-Cloud Feedbacks from Cloud-Controlling Factors: A Review", "Mechanisms and Model Diversity of Trade-Wind Shallow Cumulus Cloud Feedbacks: A Review", "Structure and Dynamical Influence of Water Vapor in the Lower Tropical Troposphere", "Emerging Technologies and Synergies for Airborne and Space-Based Measurements of Water Vapor Profiles", "Observational Constraints on Cloud Feedbacks: The Role of Active Satellite Sensors", and "EUREC4A: A Field Campaign to Elucidate the Couplings Between Clouds, Convection and Circulation" are available as open access articles under a CC BY 4.0 license at link.springer.com.

Exploring and Exploiting Genetic Risk for Psychiatric Disorders Joshua A. Gordon, Elisabeth Binder, 2023-10-10 An edited volume that looks at the state of psychiatric genetics and how to chart a path forward. In this edited collection, experts from psychiatric and statistical genetics, neurobiology, and clinical psychiatry investigate whether and how to pursue the discovery of additional genetic risk factors for mental illnesses. Using the existing knowledge and frameworks of genetic risk factors, they look at how a better understanding of the biology that underlies mental illnesses can improve and enhance the care that patients receive.

Computational Psychiatry A. David Redish, Joshua A. Gordon, 2022-11-01 Psychiatrists and neuroscientists discuss the potential of computational approaches to address problems in psychiatry including diagnosis, treatment, and integration with neurobiology. Modern psychiatry is at a crossroads, as it attempts to balance neurological analysis with psychological

assessment. Computational neuroscience offers a new lens through which to view such thorny issues as diagnosis, treatment, and integration with neurobiology. In this volume, psychiatrists and theoretical and computational neuroscientists consider the potential of computational approaches to psychiatric issues. This unique collaboration yields surprising results, innovative synergies, and novel open questions. The contributors consider mechanisms of psychiatric disorders, the use of computation and imaging to model psychiatric disorders, ways that computation can inform psychiatric nosology, and specific applications of the computational approach. Contributors Susanne E. Ahmari, Huda Akil, Deanna M. Barch, Matthew Botvinick, Michael Breakspear, Cameron S. Carter, Matthew V. Chafee, Sophie Denève, Daniel Durstewitz, Michael B. First, Shelly B. Flagel, Michael J. Frank, Karl J. Friston, Joshua A. Gordon, Katia M. Harlé, Crane Huang, Quentin J. M. Huys, Peter W. Kalivas, John H. Krystal, Zeb Kurth-Nelson, Angus W. MacDonald III, Tiago V. Maia, Robert C. Malenka, Sanjay J. Mathew, Christoph Mathys, P. Read Montague, Rosalyn Moran, Theoden I. Netoff, Yael Niv, John P. O'Doherty, Wolfgang M. Pauli, Martin P. Paulus, Frederike Petzschner, Daniel S. Pine, A. David Redish, Kerry Ressler, Katharina Schmack, Jordan W. Smoller, Klaas Enno Stephan, Anita Thapar, Heike Tost, Nelson Totah, Jennifer L. Zick

Interactive Task Learning Kevin A. Gluck, John E. Laird, 2019-08-16 Experts from a range of disciplines explore how humans and artificial agents can quickly learn completely new tasks through natural interactions with each other. Humans are not limited to a fixed set of innate or preprogrammed tasks. We learn quickly through language and other forms of natural interaction, and we improve our performance and teach others what we have learned. Understanding the mechanisms that underlie the acquisition of new tasks through natural interaction is an ongoing challenge. Advances in artificial intelligence, cognitive science, and robotics are leading us to future systems with human-like capabilities. A huge gap exists, however, between the highly specialized niche capabilities of current machine learning systems and the generality, flexibility, and in situ robustness of human instruction and learning. Drawing on expertise from multiple disciplines, this Strüngmann Forum Report explores how humans and artificial agents can quickly learn completely new tasks through natural interactions with each other. The contributors consider functional knowledge requirements, the ontology of interactive task learning, and the representation of task knowledge at multiple levels of abstraction. They explore natural forms of interactions among humans as well as the use of interaction to teach robots and software agents new tasks in complex, dynamic environments. They discuss research challenges and opportunities, including ethical considerations, and make proposals to further understanding of interactive task learning and create new capabilities in assistive robotics, healthcare, education, training, and gaming. Contributors Tony Belpaeme, Katrien Beuls, Maya Cakmak, Joyce Y. Chai, Franklin Chang, Ropafadzo Denga, Marc Destefano, Mark d'Inverno, Kenneth D. Forbus, Simon Garrod, Kevin A. Gluck, Wayne D. Gray, James Kirk, Kenneth R. Koedinger, Parisa Kordjamshidi, John E. Laird, Christian Lebiere, Stephen C. Levinson, Elena Lieven, John K. Lindstedt, Aaron Mininger, Tom Mitchell, Shiwali Mohan, Ana Paiva, Katerina Pastra, Peter

Pirolli, Roussell Rahman, Charles Rich, Katharina J. Rohlfing, Paul S. Rosenbloom, Nele Russwinkel, Dario D. Salvucci, Matthew-Donald D. Sangster, Matthias Scheutz, Julie A. Shah, Candace L. Sidner, Catherine Sibert, Michael Spranger, Luc Steels, Suzanne Stevenson, Terrence C. Stewart, Arthur Still, Andrea Stocco, Niels Taatgen, Andrea L. Thomaz, J. Gregory Trafton, Han L. J. van der Maas, Paul Van Eecke, Kurt VanLehn, Anna-Lisa Vollmer, Janet Wiles, Robert E. Wray III, Matthew Yee-King

Climate Change 2013: The Physical Science Basis Intergovernmental Panel on Climate Change, 2014-03-24 The Fifth Assessment Report of the IPCC is the standard scientific reference on climate change for students, researchers and policy makers.

The Pragmatic Turn Andreas K. Engel, Karl J. Friston, Danica Kragic, 2022-06-07 Experts from a range of disciplines assess the foundations and implications of a novel action-oriented view of cognition. Cognitive science is experiencing a pragmatic turn away from the traditional representation-centered framework toward a view that focuses on understanding cognition as “enactive.” This enactive view holds that cognition does not produce models of the world but rather subserves action as it is grounded in sensorimotor skills. In this volume, experts from cognitive science, neuroscience, psychology, robotics, and philosophy of mind assess the foundations and implications of a novel action-oriented view of cognition. Their contributions and supporting experimental evidence show that an enactive approach to cognitive science enables strong conceptual advances, and the chapters explore key concepts for this new model of cognition. The contributors discuss the implications of an enactive approach for cognitive development; action-oriented models of cognitive processing; action-oriented understandings of consciousness and experience; and the accompanying paradigm shifts in the fields of philosophy, brain science, robotics, and psychology. Contributors Moshe Bar, Lawrence W. Barsalov, Olaf Blanke, Jeannette Bohg, Martin V. Butz, Peter F. Dominey, Andreas K. Engel, Judith M. Ford, Karl J. Friston, Chris D. Frith, Shaun Gallagher, Antonia Hamilton, Tobias Heed, Cecilia Heyes, Elisabeth Hill, Matej Hoffmann, Jakob Hohwy, Bernhard Hommel, Atsushi Iriki, Pierre Jacob, Henrik Jörntell, Jürgen Jost, James Kilner, Günther Knoblich, Peter König, Danica Kragic, Miriam Kyselo, Alexander Maye, Marek McGann, Richard Menary, Thomas Metzinger, Ezequiel Morsella, Saskia Nagel, Kevin J. O'Regan, Pierre-Yves Oudeyer, Giovanni Pezzulo, Tony J. Prescott, Wolfgang Prinz, Friedemann Pulvermüller, Robert Rupert, Marti Sanchez-Fibla, Andrew Schwartz, Anil K. Seth, Vicky Southgate, Antonella Tramacere, John K. Tsotsos, Paul F. M. J. Verschure, Gabriella Vigliocco, Gottfried Vosgerau

Storm and Cloud Dynamics William R. Cotton, George Bryan, Susan C. van den Heever, 2010-12-21 Storm and Cloud Dynamics focuses on the dynamics of clouds and of precipitating mesoscale meteorological systems. Clouds and precipitating mesoscale systems represent some of the most important and scientifically exciting weather systems in the world. These are the systems that produce torrential rains, severe winds including downburst and tornadoes, hail, thunder and lightning, and

major snow storms. Forecasting such storms represents a major challenge since they are too small to be adequately resolved by conventional observing networks and numerical prediction models. Provides a complete treatment of clouds integrating the analysis of air motions with cloud structure, microphysics, and precipitation mechanics Describes and explains the basic types of clouds and cloud systems that occur in the atmosphere-fog, stratus, stratocumulus, altocumulus, altostratus, cirrus, thunderstorms, tornadoes, waterspouts, orographically induced clouds, mesoscale convection complexes, hurricanes, fronts, and extratropical cyclones Summarizes the fundamentals, both observational and theoretical, of atmospheric dynamics, thermodynamics, cloud microphysics, and radar meteorology, allowing each type of cloud to be examined in depth Integrates the latest field observations, numerical model simulations, and theory Supplies a theoretical treatment suitable for the advanced undergraduate or graduate level, as well as post-graduate

Translational Neuroscience Karoly Nikolich, Steven E. Hyman, 2015-08-21 Experts from academia and industry discuss how to create a new, more effective translational neuroscience drawing on novel technology and recent discoveries. Today, translational neuroscience faces significant challenges. Available therapies to treat brain and nervous system disorders are extremely limited and dated, and further development has effectively ceased. Disinvestment by the private sector occurred just as promising new technologies in genomics, stem cell biology, and neuroscience emerged to offer new possibilities. In this volume, experts from both academia and industry discuss how novel technologies and reworked translation concepts can create a more effective translational neuroscience. The contributors consider such topics as using genomics and neuroscience for better diagnostics and biomarker identification; new approaches to disease based on stem cell technology and more careful use of animal models; and greater attention to human biology and what it will take to make new therapies available for clinical use. They conclude with a conceptual roadmap for an effective and credible translational neuroscience—one informed by a disease-focused knowledge base and clinical experience. Contributors Tobias M. Böckers, Thomas Bourgeron, Karl Broich, Nils Brose, Bruce N. Cuthbert, Ilka Diester, Gül Dölen, Guoping Feng, Richard Frackowiak, Raquel E. Gur, Stephan Heckers, Franz Hefti, David M. Holtzman, Steven E. Hyman, Nancy Ip, Cynthia Joyce, Tobias Kaiser, Edward H. Koo, Walter J. Koroshetz, Katja S. Kroker, Robert C. Malenka, Isabelle Mansuy, Eliezer, Masliah, Yuan Mei, Andreas Meyer-Lindenberg, Lennart Mucke, Pierluigi Nicotera, Karoly Nikolich, Michael J. Owen, Menelas N. Pangalos, Alvaro Pascual-Leone, Joel S. Perlmutter, Trevor W. Robbins, Lee L. Rubin, Akira Sawa, Mareike Schnaars, Bernd Sommer, Maria Grazia Spillantini, Laura Spinney, Matthew W. State, Marius Wernig

Rethinking Environmentalism Sharachchandra Lele, Eduardo S. Brondizio, John Byrne, Georgina M. Mace, Joan Martinez-Alier, 2019-03-29 A multidisciplinary examination of alternative framings of environmental problems, with using examples from forest, water, energy, and urban sectors. Does being an environmentalist mean caring about wild nature? Or is environmentalism synonymous with concern for future human well-being, or about a fair apportionment of access to the

earth's resources and a fair sharing of pollution burdens? Environmental problems are undoubtedly one of the most salient public issues of our time, yet environmental scholarship and action is marked by a fragmentation of ideas and approaches because of the multiple ways in which these environmental problems are “framed.” Diverse framings prioritize different values and explain problems in various ways, thereby suggesting different solutions. Are more inclusive framings possible? Will this enable more socially relevant, impactful research and more concerted action and practice? This book takes a multidisciplinary look at these questions using examples from forest, water, energy, and urban sectors. It explores how different forms of environmentalism are shaped by different normative and theoretical positions, and attempts to bridge these divides. Individual perspectives are complemented by comprehensive syntheses of the differing framings in each sector. By self-reflectively exploring how researchers study and mobilize evidence about environmental problems, the book opens up the possibility of alternative framings to advance collaborative and integrated understanding of environmental problems and sustainability challenges.

The Cultural Nature of Attachment Heidi Keller, Kim A. Bard, 2017-10-27 Multidisciplinary perspectives on the cultural and evolutionary foundations of children's attachment relationships and on the consequences for education, counseling, and policy. It is generally acknowledged that attachment relationships are important for infants and young children, but there is little clarity on what exactly constitutes such a relationship. Does it occur between two individuals (infant-mother or infant-father) or in an extended network? In the West, monotropic attachment appears to function as a secure foundation for infants, but is this true in other cultures? This volume offers perspectives from a range of disciplines on these questions. Contributors from psychology, biology, anthropology, evolution, social policy, neuroscience, information systems, and practice describe the latest research on the cultural and evolutionary foundations on children's attachment relationships as well as the implications for education, counseling, and policy. The contributors discuss such issues as the possible functions of attachment, including trust and biopsychological regulation; the evolutionary foundations, if any, of attachment; ways to model attachment using the tools of information science; the neural foundations of attachment; and the influence of cultural attitudes on attachment. Taking an integrative approach, the book embraces the wide cultural variations in attachment relationships in humans and their diversity across nonhuman primates. It proposes research methods for the culturally sensitive study of attachment networks that will lead to culturally sensitive assessments, practices, and social policies. Contributors Kim Bard, Marjorie Beeghly, Allyson J. Bennett, Yvonne Bohr, David L. Butler, Nandita Chaudhary, Stephen H. Chen, James B. Chisholm, Lynn A. Fairbanks, Ruth Feldman, Barbara L. Finlay, Suzanne Gaskins, Valeria Gazzola, Ariane Gernhardt, Jay Giedd, Alma Gottlieb, Kristen Hawkes, William D. Hopkins, Johannes Johow, Elfriede Kalcher-Sommersguter, Heidi Keller, Michael Lamb, Katja Liebal, Cindy H. Liu, Gilda A. Morelli, Marjorie Murray, Masako Myowa-Yamakoshi, Naomi Quinn, Mariano Rosabal-Coto, Dirk Scheele, Gabriel Scheidecker, Margaret A. Sheridan, Volker Sommer, Stephen J. Suomi,

Akira Takada, Douglas M. Teti, Bernard Thierry, Ross A. Thompson, Akemi Tomoda, Nim Tottenham, Ed Tronick, Marga Vicedo, Leslie Wang, Thomas S. Weisner, Relindis D. Yovsi

Clouds in the Perturbed Climate System Jost Heintzenberg, Robert J. Charlson, 2009 More than half the globe is covered by visible clouds.

Climate Change and Policy Gabriele Gramelsberger, Johann Feichter, 2011-03-30 The debate on how mankind should respond to climate change is diverse, as the appropriate strategy depends on global as well as local circumstances. As scientists are denied the possibility of conducting experiments with the real climate, only climate models can give insights into man-induced climate change, by experimenting with digital climates under varying conditions and by extrapolating past and future states into the future. But the 'nature' of models is a purely representational one. A model is good if it is believed to represent the relevant processes of a natural system well. However, a model and its results, in particular in the case of climate models which interconnect countless hypotheses, is only to some extent testable, although an advanced infrastructure of evaluation strategies has been developed involving strategies of model intercomparison, ensemble prognoses, uncertainty metrics on the system and component levels. The complexity of climate models goes hand in hand with uncertainties, but uncertainty is in conflict with socio-political expectations. However, certain predictions belong to the realm of desires and ideals rather than to applied science. Today's attempt to define and classify uncertainty in terms of likelihood and confidence reflect this awareness of uncertainty as an integral part of human knowledge, in particular on knowledge about possible future developments. The contributions in this book give a first hand insight into scientific strategies in dealing with uncertainty by using simulation models and into social, political and economical requirements in future projections on climate change. Do these strategies and requirements meet each other or fail? The debate on how mankind should respond to climate change is diverse, as the appropriate strategy depends on global as well as local circumstances. As scientists are denied the possibility of conducting experiments with the real climate, only climate models can give insights into man-induced climate change, by experimenting with digital climates under varying conditions and by extrapolating past and future states into the future. But the 'nature' of models is a purely representational one. A model is good if it is believed to represent the relevant processes of a natural system well. However, a model and its results, in particular in the case of climate models which interconnect countless hypotheses, is only to some extent testable, although an advanced infrastructure of evaluation strategies has been developed involving strategies of model intercomparison, ensemble prognoses, uncertainty metrics on the system and component levels. The complexity of climate models goes hand in hand with uncertainties, but uncertainty is in conflict with socio-political expectations. However, certain predictions belong to the realm of desires and ideals rather than to applied science. Today's attempt to define and classify uncertainty in terms of likelihood and confidence reflect this awareness of uncertainty as an integral part of human knowledge, in particular on

knowledge about possible future developments. The contributions in this book give a first hand insight into scientific strategies in dealing with uncertainty by using simulation models and into social, political and economical requirements in future projections on climate change. Do these strategies and requirements meet each other or fail? Gabriele Gramelsberger is Principal Investigator of the Collaborative Research Project is Principal Investigator of the Collaborative Research Project

Encyclopedia of Climate and Weather Dr. Stephen H. Schneider, 2011-06-09 This three-volume A-to-Z compendium consists of over 300 entries written by a team of leading international scholars and researchers working in the field. Authoritative and up-to-date, the encyclopedia covers the processes that produce our weather, important scientific concepts, the history of ideas underlying the atmospheric sciences, biographical accounts of those who have made significant contributions to climatology and meteorology and particular weather events, from extreme tropical cyclones and tornadoes to local winds.

Emergent Brain Dynamics April A. Benasich, Urs Ribary, 2022-06-07 Experts explore the maturation of nonlinear brain dynamics from a developmental perspective and consider the relationship of neurodevelopmental disorders to early disruption in dynamic coordination. This volume in the Strüngmann Forum Reports series explores the complex mechanisms that accompany the dynamic processes by which the brain evolves and matures. Integrating perspectives from multiple disciplines, the book identifies knowledge gaps and proposes innovative ways forward for this emerging area of cross-disciplinary study. The contributors examine maturation of nonlinear brain dynamics across systems from a developmental perspective and relate these organizing networks to the establishment of normative cognition and pathology seen in many neurodevelopmental disorders. The book looks at key mechanistic questions, including: What role does dynamic coordination play in the establishment and maintenance of brain networks and structural and functional connectivity? How are local and global functional networks assembled and transformed over normative development? To what degree do oscillatory patterns vary across development? What is the impact of critical periods, and which factors initiate and terminate such periods? It also explores the potential of new technologies and techniques to enhance understanding of normative development and to enable early identification and remediation of neurodevelopmental and neuropsychiatric disorders that may result from early disruption in dynamic coordination. Contributors Sylvain Baillet, Yehezkel Ben-Ari, April A. Benasich, Olivier Bertrand, Gyorgy Buzsáki, Alain Chédotal, Sam M. Doesburg, Gordin Fishell, Adriana Galván, Jennifer N. Gelinas, Jay Giedd, Pierre Gressens, Ileana L. Hanganu-Opatz, Rowshanak Hashemiyoon, Takao K. Hensch, Suzana Herculano-Houzel, Mark Hübener, Mark, Matthias Kaschube, Michael S. Kobor, Bryan Kolb, Thorsten Kolling, Jean-Philippe Lachaux, Ulman Lindenberger, Heiko J. Luhmann, Hannah Monyer, Sarah R. Moore, Charles A. Nelson III, Tomáš Paus, Patrick L. Purdon, Pasko Rakic, Urs Ribary, Akira Sawa, Terrence J. Sejnowski, Wolf Singer, Cheryl L. Sisk, Nicholas C. Spitzer, Michael P. Stryker, Migranka Sur, Peter J. Uhlhaas

Clouds and Their Climatic Impact Sylvia C. Sullivan, Corinna Hoose, 2023-12-11 Clouds and Their Climatic Impacts Clouds are an influential and complex element of Earth's climate system. They evolve rapidly in time and exist over small spatial scales, but also affect global radiative balance and large-scale circulations. With more powerful models and extensive observations now at our disposal, the climate impact of clouds is receiving ever more research attention. *Clouds and Their Climatic Impacts: Radiation, Circulation, and Precipitation* presents an overview of our current understanding on various types of clouds and cloud systems and their multifaceted role in the radiative budget, circulation patterns, and rainfall. Volume highlights include: Interactions of aerosol with both liquid and ice clouds Surface and atmospheric cloud radiative feedbacks and effects Arctic, extratropical, and tropical clouds Cloud-circulation coupling at global, meso, and micro scales Precipitation efficiency, phase, and measurements The role of machine learning in understanding clouds and climate The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity. Its publications disseminate scientific knowledge and provide resources for researchers, students, and professionals.

Migration Stigma Lawrence H. Yang, Maureen A. Eger, Bruce G. Link, 2024-03-26 An introduction to the concept of "migration stigma," along with new analytical frameworks to deepen understanding of the experiences of immigrants, their descendants, and native-born residents in immigrant-receiving societies. Due to economic crises, sociopolitical instability, and climate change, international migration is likely to persist if not increase in the future. Meanwhile, struggles to secure widespread acceptance of immigrant populations are evident worldwide. This volume, edited by Lawrence Yang, Maureen Eger, and Bruce Link, introduces the concept of "migration stigma" and proposes new ways to understand the complex challenges facing immigrants, their descendants, and contemporary societies. Contributions reveal how migration stigma affects areas such as health, financial well-being, and social cohesion; analyze the multilevel and temporal processes underlying migration stigma; and propose social, economic, and policy frameworks to address its harmful consequences. Contributors Muna Adem, Drew Blasco, Andrea Bohman, Heide Castañeda, Christian S. Czymara, Joerg Dollmann, Maureen A. Eger, Tyrone A. Forman, Daniel Gabrielsson, San Juanita García, Anastasia Gorodzeisky, Mark L. Hatzenbuehler, Marc Helbling, Mikael Hjerm, Seth M. Holmes, Elisabeth Ivarsflaten, Tomás R. Jiménez, Irena Kogan, Christian Albrekt Larsen, Bruce G. Link, Rahsaan Maxwell, Supriya Misra, Dina Okamoto, John E. Pachankis, Nicolas Rüscher, Georg Schomerus, Patrick Simon, Anders Vassenden, Paolo Velásquez, Katie Wang, Markus Weißmann, Rima Wilkes, Lawrence H. Yang, Min Zhou

Air Pollution Abhishek Tiwary, Ian Williams, 2018-07-04 This established textbook offers a one-stop, comprehensive coverage of air pollution, all in an easy-reading and accessible style. The fourth edition, broadly updated and developed throughout, includes a brand-new chapter providing a broader overview to the topic for general reading, and presents fresh materials on air pollution modelling, mitigation and control, tailored to the needs of both amateur and specialist users. Retaining a quantitative perspective, the covered topics include: gaseous and particulate air pollutants, measurement

techniques, meteorology and modelling, area sources, mobile sources, indoor air, effects on plants, materials, humans and animals, impact on climate change and ozone profiles and air quality legislations. This edition also includes a final chapter covering a suite of sampling and laboratory practical experiments that can be used for either classroom teachings, or as part of research projects. As with previous editions, the book is aimed to serve as a useful reading resource for upper-level undergraduate and postgraduate courses specialising in air pollution, with dedicated case studies at the end of each chapter, as well as a list of revision questions provided at the end as a complementary section.

The Neocortex Wolf Singer, Terrence J. Sejnowski, Pasko Rakic, 2019-10-29 Experts review the latest research on the neocortex and consider potential directions for future research. Over the past decade, technological advances have dramatically increased information on the structural and functional organization of the brain, especially the cerebral cortex. This explosion of data has radically expanded our ability to characterize neural circuits and intervene at increasingly higher resolutions, but it is unclear how this has informed our understanding of underlying mechanisms and processes. In search of a conceptual framework to guide future research, leading researchers address in this volume the evolution and ontogenetic development of cortical structures, the cortical connectome, and functional properties of neuronal circuits and populations. They explore what constitutes “uniquely human” mental capacities and whether neural solutions and computations can be shared across species or repurposed for potentially uniquely human capacities. Contributors Danielle S. Bassett, Randy M. Bruno, Elizabeth A. Buffalo, Michael E. Coulter, Hermann Cuntz, Stanislas Dehaene, James J. DiCarlo, Pascal Fries, Karl J. Friston, Asif A. Ghazanfar, Anne-Lise Giraud, Joshua I. Gold, Scott T. Grafton, Jennifer M. Groh, Elizabeth A. Grove, Saskia Haegens, Kenneth D. Harris, Kristen M. Harris, Nicholas G. Hatsopoulos, Tarik F. Haydar, Takao K. Hensch, Wieland B. Huttner, Matthias Kaschube, Gilles Laurent, David A. Leopold, Johannes Leugering, Belen Lorente-Galdos, Jason N. MacLean, David A. McCormick, Lucia Melloni, Anish Mitra, Zoltán Molnár, Sydney K. Muchnik, Pascal Nieters, Marcel Oberlaender, Bijan Pesaran, Christopher I. Petkov, Gordon Pipa, David Poeppel, Marcus E. Raichle, Pasko Rakic, John H. Reynolds, Ryan V. Raut, John L. Rubenstein, Andrew B. Schwartz, Terrence J. Sejnowski, Nenad Sestan, Debra L. Silver, Wolf Singer, Peter L. Strick, Michael P. Stryker, Mriganka Sur, Mary Elizabeth Sutherland, Maria Antonietta Tosches, William A. Tyler, Martin Vinck, Christopher A. Walsh, Perry Zurn

Atmospheric Physics Ulrich Schumann, 2012-07-17 On the occasion of the 50th anniversary of the Institute of Atmospheric Physics of the German Aerospace Center (DLR), this book presents more than 50 chapters highlighting results of the institute’s research. The book provides an up-to-date, in-depth survey across the entire field of atmospheric science, including atmospheric dynamics, radiation, cloud physics, chemistry, climate, numerical simulation, remote sensing, instruments and measurements, as well as atmospheric acoustics. The authors have provided a readily comprehensible and self-contained presentation of the complex field of atmospheric science. The topics are of direct relevance for aerospace

science and technology. Future research challenges are identified.

Global Change Research United States. Congress. Senate. Committee on Commerce, Science, and Transportation, 1992

Atmosphere, Clouds, and Climate David Randall, 2012-04-29 An essential primer on atmospheric processes and their important role in the climate system The atmosphere is critical to climate change. It can amplify shifts in the climate system, and also mitigate them. This primer offers a short, reader-friendly introduction to these atmospheric processes and how they work, written by a leading expert on the subject. Giving readers an overview of key atmospheric processes, David Randall looks at how our climate system receives energy from the sun and sheds it by emitting infrared radiation back into space. The atmosphere regulates these radiative energy flows and transports energy through weather systems such as thunderstorms, monsoons, hurricanes, and winter storms. Randall explains how these processes work, and also how precipitation, cloud formation, and other phase changes of water strongly influence weather and climate. He discusses how atmospheric feedbacks affect climate change, how the large-scale atmospheric circulation works, how predicting the weather and the climate are fundamentally different challenges, and much more. This is the ideal introduction for students and nonspecialists. No prior experience in atmospheric science is needed, only basic college physics. Authoritative and concise, *Atmosphere, Clouds, and Climate* features a glossary of terms, suggestions for further reading, and easy-to-follow explanations of a few key equations. This accessible primer is the essential introduction to atmospheric processes and the vital role they play in our climate system.

Legal Mechanisms for Water Resources in the Third Millennium Marcella Nanni, Stefano Burchi, Ariella D'Andrea, Gabriel Eckstein, 2018-06-18 Legal mechanisms for the management, development and protection of water resources have evolved over the years and have reached unprecedented levels of complexity and sophistication. This phenomenon is largely in response to the global community's sustainable development agenda, to the challenges and limitations imposed by climate variability, and to scientific and technological advances. Bringing together diverse experiences from across the world, this book analyses existing water law and governance solutions, their shortcomings, as well as developments and trends in the light of changing circumstances. The legal mechanisms examined range from international treaties, agreements and arrangements on cooperation over transboundary water resources, to the onset of novel issues arising out of technological advances, and from domestic regulation of water abstraction and groundwater management, to domestic regulation of the water industry. The articles in this book were originally published in the journal *Water International*, following the XIV and the XV World Water Congresses of the International Water Resources Association (IWRA), which were held in 2011 and in 2015, respectively. The chapters originally published in *Water International*.

Atmospheric Chemistry and Physics John H. Seinfeld, Spyros N. Pandis, 2016-03-29 Expanded and updated with new findings and new features New chapter on Global Climate providing a self-contained treatment of climate forcing, feedbacks,

and climate sensitivity New chapter on Atmospheric Organic Aerosols and new treatment of the statistical method of Positive Matrix Factorization Updated treatments of physical meteorology, atmospheric nucleation, aerosol-cloud relationships, chemistry of biogenic hydrocarbons Each topic developed from the fundamental science to the point of application to real-world problems New problems at an introductory level to aid in classroom teaching

Fundamentals of Meteorology Vlado Spiridonov, Mladjen Ćurić, 2020-11-05 This book is dedicated to the atmosphere of our planet, and discusses historical and contemporary achievements in meteorological science and technology for the betterment of society. The book explores many significant atmospheric phenomena and physical processes from the local to global scale, as well as from the perspective of short and long-term time scales, and links these processes to various applications in other scientific disciplines with linkages to meteorology. In addition to addressing general topics such as climate system dynamics and climate change, the book also discusses atmospheric boundary layer, atmospheric waves, atmospheric chemistry, optics/photometers, electricity, atmospheric modeling and numeric weather prediction. Through its interdisciplinary approach, the book will be of interest to researchers, students and academics in meteorology and atmospheric science, environmental physics, climate change dynamics, air pollution and human health impacts of atmospheric aerosols.

Climate Science for Serving Society Ghassem R. Asrar, James W. Hurrell, 2013-06-18 This volume offers a comprehensive survey and a close analysis of efforts to develop actionable climate information in support of vital decisions for climate adaptation, risk management and policy. Arising from submissions and discussion at the 2011 Open Science Conference (OSC) of the World Climate Research Program (WCRP), the book addresses research and intellectual challenges which span the full range of Program activities.

Intrusive Thinking Peter W. Kalivas, Martin P. Paulus, 2021-03-02 An exploration of the neurological and behavioral mechanisms and processes involved in intrusive thinking. On any given day, unintended, recurrent thoughts intrude on our thinking and affect our behavior in ways that can be adaptive. Such thoughts, however, become intrusive and problematic when they are unwanted, become compulsive, or lead to socially or medically unacceptable behavior. This volume explores what goes on in our brains to create thought intrusions, and how these intrusions lead to maladaptive behavior.

Climate Change in Poland Małgorzata Falarz, 2021-06-01 This edited book provides a comprehensive overview of the past, present and future climate development in Poland. The book consists of three main parts. The first part presents the results of the study of climate change before instrumental measurements in Poland in the last millennium. The second part analyses the long-term changes and variability of 36 climate characteristics for 14 climate elements, indices, meteorological phenomena and weather types using data from 79 weather stations in the base period 1951–2018 and for long series up to 239 years (1780–2018). The particular attention is paid to climate extremes. The third part of the book deals with projected

changes in temperature, precipitation and thermal indices related to the agriculture and energy sectors. Two future time horizons are carried out: 1) near future: 2021–2050 and 2) far future: 2071–2100. The results for Poland are compared to those from Europe and other parts of the world. The book is addressed to scientists (climatologists, geographers, etc.), academic teachers, students, journalists and all those interested in Poland and climate change in Poland.

Clouds and Climate A. Pier Siebesma, Sandrine Bony, Christian Jakob, Bjorn Stevens, 2020-08-20 Cloud research is a rapidly developing branch of climate science that's vital to climate modelling. With new observational and simulation technologies our knowledge of clouds and their role in the warming climate is accelerating. This book provides a comprehensive overview of research on clouds and their role in our present and future climate, covering theoretical, observational, and modelling perspectives. Part I discusses clouds from three different perspectives: as particles, light and fluid. Part II describes our capability to model clouds, ranging from theoretical conceptual models to applied parameterised representations. Part III describes the interaction of clouds with the large-scale circulation in the tropics, mid-latitudes, and polar regions. Part IV describes how clouds are perturbed by aerosols, the land-surface, and global warming. Each chapter contains end-of-chapter exercises and further reading sections, making this an ideal resource for advanced students and researchers in climatology, atmospheric science, meteorology, and climate change.

Complexity and Evolution David S. Wilson, Alan Kirman, 2016-08-19 An exploration of how approaches that draw on evolutionary theory and complexity science can advance our understanding of economics. Two widely heralded yet contested approaches to economics have emerged in recent years: one emphasizes evolutionary theory in terms of individuals and institutions; the other views economies as complex adaptive systems. In this book, leading scholars examine these two bodies of theory, exploring their possible impact on economics. Relevant concepts from evolutionary theory drawn on by the contributors include the distinction between proximate and ultimate causation, multilevel selection, cultural change as an evolutionary process, and human psychology as a product of gene-culture coevolution. Applicable ideas from complexity theory include self-organization, fractals, chaos theory, sensitive dependence, basins of attraction, and path dependence. The contributors discuss a synthesis of complexity and evolutionary approaches and the challenges that emerge. Focusing on evolutionary behavioral economics, and the evolution of institutions, they offer practical applications and point to avenues for future research. Contributors Robert Axtell, Jenna Bednar, Eric D. Beinhocker, Adrian V. Bell, Terence C. Burnham, Julia Chelen, David Colander, Iain D. Couzin, Thomas E. Currie, Joshua M. Epstein, Daniel Fricke, Herbert Gintis, Paul W. Glimcher, John Gowdy, Thorsten Hens, Michael E. Hochberg, Alan Kirman, Robert Kurzban, Leonhard Lades, Stephen E. G. Lea, John E. Mayfield, Mariana Mazzucato, Kevin McCabe, John F. Padgett, Scott E. Page, Karthik Panchanathan, Peter J. Richerson, Peter Schuster, Georg Schwesinger, Rajiv Sethi, Enrico Spolaore, Sven Steinmo, Miriam Teschl, Peter Turchin, Jeroen C. J. M. van den Bergh, Sander E. van der Leeuw, Romain Wacziarg, John J. Wallis, David S. Wilson, Ulrich Witt

Environmental Health Perspectives ,2009-07

A Practical Guide to Atmospheric Simulation Chambers Jean-François Doussin, Hendrik Fuchs, Astrid Kiendler-Scharr, Paul Seakins, John Wenger, 2023-05-25 This open access title presents atmospheric simulation chambers as effective tools for atmospheric chemistry research. State-of-the-art simulation chambers provide unprecedented opportunities for atmospheric scientists to perform experiments that address the most important questions in air quality and climate research. The book covers technical details about chamber preparation and practical guidelines on their usage, while also delivering relevant historical and contextual information. It not only serves as a key publication for knowledge transfer within the simulation chamber research community, but it also provides the global atmospheric science community with a unique resource that outlines best practice for the operation of simulation chambers. The authors summarize the latest advances in chamber interoperability and standard protocols in order to provide the research community and the next generations of scientists with a unique technical reference guide for the use of simulation chambers. The volume will be of great interest to researchers and graduates working in the fields of Atmospheric and Environmental Sciences.

Fundamentals and Processes Detlev Möller, 2019-02-19 Climate change is a major challenge facing modern society. The chemistry of air and its influence on the climate system forms the main focus of this book. Vol. 1 of *Chemistry of the Climate System* provides the reader with a physicochemical understanding of atmospheric processes. The chemical substances and reactions found in the Earth's atmosphere are presented along with their influence on the global climate system.

Agrobiodiversity Karl S. Zimmerer, Stef de Haan, 2019-04-05 Experts discuss the challenges faced in agrobiodiversity and conservation, integrating disciplines that range from plant and biological sciences to economics and political science. Wide-ranging environmental phenomena—including climate change, extreme weather events, and soil and water availability—combine with such socioeconomic factors as food policies, dietary preferences, and market forces to affect agriculture and food production systems on local, national, and global scales. The increasing simplification of food systems, the continuing decline of plant species, and the ongoing spread of pests and disease threaten biodiversity in agriculture as well as the sustainability of food resources. Complicating the situation further, the multiple systems involved—cultural, economic, environmental, institutional, and technological—are driven by human decision making, which is inevitably informed by diverse knowledge systems. The interactions and linkages that emerge necessitate an integrated assessment if we are to make progress toward sustainable agriculture and food systems. This volume in the Strüngmann Forum Reports series offers insights into the challenges faced in agrobiodiversity and sustainability and proposes an integrative framework to guide future research, scholarship, policy, and practice. The contributors offer perspectives from a range of disciplines, including plant and biological sciences, food systems and nutrition, ecology, economics, plant and animal breeding,

anthropology, political science, geography, law, and sociology. Topics covered include evolutionary ecology, food and human health, the governance of agrobiodiversity, and the interactions between agrobiodiversity and climate and demographic change.

Chemistry of the Climate System Detlev Möller, 2014-09-10 Climate change is a major challenge facing the modern world. The chemistry of air and its influence on the climate system forms the main focus of this monograph. The book presents a problem-based approach to presenting global atmospheric processes, evaluating the effects of changing air composition as well as possibilities for interference within these processes and indicates ways for solving the problem of climate change through chemistry. The new edition includes innovations and latest research results.

Youth Mental Health Peter J. Uhlhaas, Stephen J. Wood, 2020-04-14 Experts discuss the potential of early intervention to transform outcomes for people with mental disorders. Mental illness represents one of the largest disease burdens worldwide, yet treatments have been largely ineffective in improving the quality of life for millions of affected individuals—in part because approaches taken have focused on late-stage disorders in adulthood. This volume shifts the focus by placing the developmental stage of “youth” at the center of mental health. The contributors challenge current nosology, explore mechanisms that underlie the emergence of mental disorders, and propose a framework to guide early intervention. Offering recommendations for the future, the book holds that early intervention in youth has the potential to transform outcomes for people with mental disorders and to reconfigure the landscape of mental health. The contributors discuss epidemiology, classification, and diagnostic issues, including the benefits of clinical staging; the context for emerging mental disorders, including both biological and sociocultural processes; biological mechanisms underlying risk for psychopathology, including aspects of neural circuitry; and developing and implementing prevention and early intervention, including assessment and intervention modalities and knowledge translation in early treatment of schizophrenia. Contributors Nicholas B. Allen, Mario Alvarez-Jimenez, G. Paul Amminger, Shelli Avenevoli, Hannah F. Behrendt, Tolulope Bella-Awusah, Maximus Berger, Byron K. Y. Bitanirwe, Drew Blasco, John D. Cahill, Joanne S. Carpenter, Andrew M. Chanen, Eric Y. H. Chen, Shane D. Colombo, Christoph U. Correll, Christopher G. Davey, Kim Q. Do, Damien A. Fair, Helen L. Fisher, Sophia Frangou, John Gleeson, Robert K. Heinssen, Ian B. Hickie, Frank Iorfino, Matcheri S. Keshavan, Kerstin Konrad, Phuong Thao D. Le, Francis Lee, Leslie D. Leve, Sarah A. Lieff, Cindy H. Liu, Beatriz Luna, Patrick D. McGorry, Urvakhsh Meherwan Mehta, Andreas Meyer-Lindenberg, Shreya V. Nallur, Cristopher Niell, Merete Nordentoft, Dost Öngür, George C. Patton, Tomáš Paus, Ulrich Reininghaus, Bernalyn Ruiz, Fred Sabb, Akira Sawa, Michael Schoenbaum, Gunter Schumann, Elizabeth M. Scott, Jai Shah, Vinod H. Srihari, Ezra Susser, John Torous, Peter J. Uhlhaas, Swapna K. Verma, T. Wilson Woo, Stephen J. Wood, Lawrence H. Yang, Alison R. Yung

Planning and Management of Solar Power from Space Panagiotis Kosmopoulos, 2023-11-01 Planning and

Management of Solar Power from Space presents for the first time a holistic solar energy management and planning solution using Earth observation data and methodologies, giving an alternative view for precise electricity production and handling. Including examples of exploiting this solution by transmission and distribution system operators and solar power plants of both Photovoltaic (PV) and Concentrated Solar Power(CSP) systems, this book showcases real implementations and benefits of Earth observation technology, thus providing solar sector professionals an approach for continuously monitoring solar energy production and atmospheric parameter forecasts in high spatial and temporal resolution. By guiding readers in tracking solar energy availability in relation to time horizons and forecasting, this book addresses potential challenges in research and development, since this technology and the extensive use of such data and services enable accurate solar energy estimations and forecasts useful mainly in energy production control and grid stability. It can also actively support energy producers at any solar system scale as well as urban planners and electricity handling entities, with open access solutions for decision-making, promoting, and supporting sustainable development as well as affordable and modern energy for all citizens. This book contains real experimental data in the field of solar energy management and planning, giving all researchers and engineers in solar energy generation reference points and applicable data. Includes state-of-the-art solar energy nowcasting technology based on radiative transfer model simulations, machine learning, computer vision, and Earth Observation input data Presents real examples of planning and management of solar power from space including exploitation strategies from transmission and distribution system operators and solar energy plants production optimization Featuring spectral added value products and on-the-fly calculations for operational solution

Deliberate Ignorance Ralph Hertwig, Christoph Engel, 2021-02-02 Psychologists, economists, historians, computer scientists, sociologists, philosophers, and legal scholars explore the conscious choice not to seek information. The history of intellectual thought abounds with claims that knowledge is valued and sought, yet individuals and groups often choose not to know. We call the conscious choice not to seek or use knowledge (or information) deliberate ignorance. When is this a virtue, when is it a vice, and what can be learned from formally modeling the underlying motives? On which normative grounds can it be judged? Which institutional interventions can promote or prevent it? In this book, psychologists, economists, historians, computer scientists, sociologists, philosophers, and legal scholars explore the scope of deliberate ignorance.

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