

EDITORIAL

- 219 Reading science
- 219 Topping the tables

OPINION & COMMENT

- 220 Correspondence: Greenhouse gas emissions from synthetic natural gas production
- 222 Commentary: 1.5 °C and climate research after the Paris Agreement
Mike Hulme
- 224 Commentary: Making sense of the early-2000s warming slowdown
John C. Fyfe, Gerald A. Meehl, Matthew H. England, Michael E. Mann, Benjamin D. Santer, Gregory M. Flato, Ed Hawkins, Nathan P. Gillett, Shang-Ping Xie, Yu Kosaka and Neil C. Swart
- 228 Commentary: Keeping the lights on for global ocean salinity observation
Paul J. Durack, Tong Lee, Nadya T. Vinogradova and Detlef Stammer

RESEARCH HIGHLIGHTS

- 232 Our choice from the recent literature

NEWS & VIEWS

- 233 Ocean-atmosphere dynamics: Atlantic origin of Pacific changes
Shayne McGregor
- 234 Arctic warming: Short-term solutions
Julia Schmale

PERSPECTIVE

- 237 Wealth reallocation and sustainability under climate change
Eli P. Fenichel, Simon A. Levin, Bonnie McCay, Kevin St. Martin, Joshua K. Abbott and Malin L. Pinsky
- 245 Differences between carbon budget estimates unravelled
Joeri Rogelj, Michiel Schaeffer, Pierre Friedlingstein, Nathan P. Gillett, Detlef P. van Vuuren, Keywan Riahi, Myles Allen and Reto Knutti
- 253 Overestimation of marsh vulnerability to sea level rise
Matthew L. Kirwan, Stijn Temmerman, Emily E. Skeehan, Glenn R. Guntenspergen and Sergio Fagherazzi

LETTERS

- 261 National-level progress on adaptation
Alexandra Lesnikowski, James Ford, Robbert Biesbroek, Lea Berrang-Ford and S. Jody Heymann
- 265 Strategic reasoning and bargaining in catastrophic climate change games
Vilhelm Verendel, Daniel J. A. Johansson and Kristian Lindgren
- 269 An increase in aerosol burden and radiative effects in a warmer world
Robert J. Allen, William Landuyt and Steven T. Rumbold
- 275 Atlantic-induced pan-tropical climate change over the past three decades
Xichen Li, Shang-Ping Xie, Sarah T. Gille and Changyun Yoo
→N&V p233

- 280 Mapping the future expansion of Arctic open water**
Katherine R. Barnhart, Christopher R. Miller, Irina Overeem and Jennifer E. Kay
- 286 Response of Arctic temperature to changes in emissions of short-lived climate forcers**
M. Sand, T. K. Berntsen, K. von Salzen, M. G. Flanner, J. Langner and D. G. Victor
→N&V p234
- 290 Impact of solar panels on global climate**
Aixue Hu, Samuel Levis, Gerald A. Meehl, Weiqing Han, Warren M. Washington, Keith W. Oleson, Bas J. van Ruijven, Mingqiong He and Warren G. Strand
- 295 Multi-scale predictions of massive conifer mortality due to chronic temperature rise**
N. G. McDowell, A. P. Williams, C. Xu, W. T. Pockman, L. T. Dickman, S. Sevanto, R. Pangle, J. Limousin, J. Plaut, D. S. Mackay, J. Ogee, J. C. Domec, C. D. Allen, R. A. Fisher, X. Jiang, J. D. Muss, D. D. Breshears, S. A. Rauscher and C. Koven
- 301 Designer policy for carbon and biodiversity co-benefits under global change**
Brett A. Bryan, Rebecca K. Runtig, Tim Capon, Michael P. Perring, Shaun C. Cunningham, Marit E. Kragt, Martin Nolan, Elizabeth A. Law, Anna R. Renwick, Sue Eber, Rochelle Christian and Kerrie A. Wilson
- 306 Large divergence of satellite and Earth system model estimates of global terrestrial CO₂ fertilization**
W. Kolby Smith, Sasha C. Reed, Cory C. Cleveland, Ashley P. Ballantyne, William R. L. Anderegg, William R. Wieder, Yi Y. Liu and Steven W. Running

ARTICLES

- 311 Linguistic analysis of IPCC summaries for policymakers and associated coverage**
Ralf Barkemeyer, Suraje Dessai, Beatriz Monge-Sanz, Barbara Gabriella Renzi and Giulio Napolitano
- 317 Cooling of US Midwest summer temperature extremes from cropland intensification**
Nathaniel D. Mueller, Ethan E. Butler, Karen A. McKinnon, Andrew Rhines, Martin Tingley, N. Michele Holbrook and Peter Huybers
- 323 Revaluating ocean warming impacts on global phytoplankton**
Michael J. Behrenfeld, Robert T. O'Malley, Emmanuel S. Boss, Toby K. Westberry, Jason R. Graff, Kimberly H. Halsey, Allen J. Milligan, David A. Siegel and Matthew B. Brown