

EDITORIAL

- 431 Pursuing a post-Paris plan
431 The devil is in the deep tail

OPINION & COMMENT

- 433 Commentary: Gaps in agricultural climate adaptation research
Debra Davidson

FEATURE

- 437 News Feature: City limits
Elisabeth Jeffries
439 Snapshot: Snow white coral
Bronwyn Wake

RESEARCH HIGHLIGHTS

- 440 Our choice from the recent literature

NEWS & VIEWS

- 441 Energy modelling: Clean grids with current technology
Mark Z. Jacobson
442 Climate change economics: Reacting to multiple tipping points
Frederick van der Ploeg
443 Extreme precipitation: Increases all round
William Ingram

PERSPECTIVE

- 445 Expert judgement and uncertainty quantification for climate change
Michael Oppenheimer, Christopher M. Little and Roger M. Cooke

REVIEW ARTICLE

- 452 Greenhouse gas mitigation potentials in the livestock sector
Mario Herrero, Benjamin Henderson, Petr Havlík, Philip K. Thornton,
Richard T. Conant, Pete Smith, Stefan Wirsenius, Alexander N. Hristov,
Pierre Gerber, Margaret Gill, Klaus Butterbach-Bahl, Hugo Valin, Tara Garnett
and Elke Stehfest
462 Observations of climate change among subsistence-oriented communities
around the world
V. Savo, D. Lepofsky, J. P. Benner, K. E. Kohfeld, J. Bailey and K. Lertzman

LETTERS

- 474 Regional estimates of the transient climate response to cumulative
CO₂ emissions
Martin Leduc, H. Damon Matthews and Ramón de Elía
479 The safety band of Antarctic ice shelves
Johannes Jakob Furst, Gaël Durand, Fabien Gillet-Chaulet, Laure Tavard,
Melanie Rankl, Matthias Braun and Olivier Gagliardini

- 483 Response of marine bacterioplankton pH homeostasis gene expression to elevated CO₂**
Carina Bunse, Daniel Lundin, Christofer M. G. Karlsson, Neelam Akram, Maria Vila-Costa, Joakim Palovaara, Lovisa Svensson, Karin Holmfeldt, José M. González, Eva Calvo, Carles Pelejero, Cèlia Marrasé, Mark Dopson, Josep M. Gasol and Jarone Pinhassi
- 488 The potential for land sparing to offset greenhouse gas emissions from agriculture**
Anthony Lamb, Rhys Green, Ian Bateman, Mark Broadmeadow, Toby Bruce, Jennifer Burney, Pete Carey, David Chadwick, Ellie Crane, Rob Field, Keith Goulding, Howard Griffiths, Astley Hastings, Tim Kasoar, Daniel Kindred, Ben Phalan, John Pickett, Pete Smith, Eileen Wall, Erasmus K. H. J. zu Ermgassen and Andrew Balmford
- 493 Increasing beef production could lower greenhouse gas emissions in Brazil if decoupled from deforestation**
R. de Oliveira Silva, L. G. Barioni, J. A. J. Hall, M. Folegatti Matsuura, T. Zanett Albertini, F. A. Fernandes and D. Moran
- 498 Climate and topography explain range sizes of terrestrial vertebrates**
Yiming Li, Xianping Li, Brody Sandel, David Blank, Zetian Liu, Xuan Liu and Shaofei Yan
- 503 Climate and health impacts of US emissions reductions consistent with 2 °C**
Drew T. Shindell, Yunha Lee and Greg Faluvegi
- 508 More extreme precipitation in the world's dry and wet regions**
Markus G. Donat, Andrew L. Lowry, Lisa V. Alexander, Paul A. O'Gorman and Nicola Maher
→N&V p443

ARTICLES

- 514 Economics of tipping the climate dominoes**
Derek Lemoine and Christian P. Traeger
→N&V p442
- 520 Risk of multiple interacting tipping points should encourage rapid CO₂ emission reduction**
Yongyang Cai, Timothy M. Lenton and Thomas S. Lontzek
→N&V p442
- 526 Future cost-competitive electricity systems and their impact on US CO₂ emissions**
Alexander E. MacDonald, Christopher T. M. Clack, Anneliese Alexander, Adam Dunbar, James Wilczak and Yuanfu Xie
→N&V p441
- 532 Assessing the observed impact of anthropogenic climate change**
Gerrit Hansen and Dáithí Stone
- 538 Corrigenda**