

**EDITORIAL**

- 1049 Tell us where the data is  
1049 Building a greener future

**OPINION & COMMENT**

- 1051 Correspondence: Reply to 'Broaden research on the human dimensions of climate change'  
1052 Commentary: The supply of climate leaders must grow  
Thomas Bateman and Michael Mann  
1054 Commentary: Urban infrastructure choices structure climate solutions  
Felix Creutzig, Peter Agoston, Jan C. Minx, Josep G. Canadell, Robbie M. Andrew, Corinne Le Quéré, Glen P. Peters, Ayyoob Sharifi, Yoshiki Yamagata and Shobhakar Dhakal  
1057 Commentary: The vital need for a climate information system  
Kevin E. Trenberth, Melinda Marquis and Stephen Zebiak

**RESEARCH HIGHLIGHTS**

- 1060 Our choice from the recent literature

**NEWS & VIEWS**

- 1061 Behavioural science: Culture and climate action  
Lisa Zaval  
1062 Water resources: Island water stress  
Toby Ault

**PERSPECTIVE**

- 1065 Nested barriers to low-carbon infrastructure investment  
Ilmi Granoff, J. Ryan Hogarth and Alan Miller  
1072 Marine phytoplankton and the changing ocean iron cycle  
D. A. Hutchins and P. W. Boyd

**REVIEW ARTICLE**

- 1080 Cognitive and psychological science insights to improve climate change data visualization  
Jordan Harold, Irene Lorenzoni, Thomas F. Shipley and Kenny R. Coventry

**LETTERS**

- 1090 Assessment of the climate commitments and additional mitigation policies of the United States  
Jeffery B. Greenblatt and Max Wei  
1094 Persistent shift of the Arctic polar vortex towards the Eurasian continent in recent decades  
Jiankai Zhang, Wenshou Tian, Martyn P. Chipperfield, Fei Xie and Jinlong Huang  
1100 Groundwater vulnerability on small islands  
S. Holding, D. M. Allen, S. Foster, A. Hsieh, I. Larocque, J. Klassen and S. C. Van Pelt  
→N&V p1062

- 1104 **Mapping climatic mechanisms likely to favour the emergence of novel communities**  
Alejandro Ordonez, John W. Williams and Jens-Christian Svenning
- 1110 **Phylogenetic approaches reveal biodiversity threats under climate change**  
Carlos E. González-Orozco, Laura J. Pollock, Andrew H. Thornhill, Brent D. Mishler, Nunzio Knerr, Shawn W. Laffan, Joseph T. Miller, Dan F. Rosauer, Daniel P. Faith, David A. Nipperess, Heini Kujala, Simon Linke, Nathalie Butt, Carsten Külheim, Michael D. Crisp and Bernd Gruber
- 1115 **Amplified plant turnover in response to climate change forecast by Late Quaternary records**  
D. Nogués-Bravo, S. Veloz, B. G. Holt, J. Singarayer, P. Valdes, B. Davis, S. C. Brewer, J. W. Williams and C. Rahbek
- 1120 **Day length unlikely to constrain climate-driven shifts in leaf-out times of northern woody plants**  
Constantin M. Zohner, Blas M. Benito, Jens-Christian Svenning and Susanne S. Renner

## **ARTICLES**

- 1124 **Ocean acidification reduces demersal zooplankton that reside in tropical coral reefs**  
Joy N. Smith, Glenn De'ath, Claudio Richter, Astrid Cornils, Jason M. Hall-Spencer and Katharina E. Fabricius
- 1130 **Similar estimates of temperature impacts on global wheat yield by three independent methods**  
Bing Liu, Senthold Asseng, Christoph Müller, Frank Ewert, Joshua Elliott, David B. Lobell, Pierre Martre, Alex C. Ruane, Daniel Wallach, James W. Jones, Cynthia Rosenzweig, Pramod K. Aggarwal, Phillip D. Alderman, Jakarat Anothai, Bruno Basso, Christian Biernath, Davide Cammarano, Andy Challinor, Delphine Deryng, Giacomo De Sanctis, Jordi Doltra, Elias Fereres, Christian Folberth, Margarita Garcia-Vila, Sebastian Gayler, Gerrit Hoogenboom, Leslie A. Hunt, Roberto C. Izaurralde, Mohamed Jabloun, Curtis D. Jones, Kurt C. Kersebaum, Bruce A. Kimball, Ann-Kristin Koehler, Soora Naresh Kumar, Claas Nendel, Gary O'Leary, Jørgen E. Olesen, Michael J. Ottman, Taru Palosuo, P. V. Vara Prasad, Eckart Priesack, Thomas A. M. Pugh, Matthew Reynolds, Ehsan E. Rezaei, Reimund P. Rötter, Erwin Schmid, Mikhail A. Semenov, Iurii Shcherbak, Elke Stehfest, Claudio O. Stöckle, Pierre Stratonovitch, Thilo Streck, Iwan Supit, Fulu Tao, Peter Thorburn, Katharina Waha, Gerard W. Wall, Enli Wang, Jeffrey W. White, Joost Wolf, Zhigan Zhao and Yan Zhu