

## **EDITORIAL**

931 The precious drop

## **OPINION & COMMENT**

932 Correspondence: CO<sub>2</sub> emissions from crop residue-derived biofuels

935 Correspondence: Lessons learned from geoengineering freshwater systems

936 Commentary: Getting there from here  
Keely B. Maxwell

938 Commentary: Characterizing loss and damage from climate change  
Rachel James, Friederike Otto, Hannah Parker, Emily Boyd, Rosalind Cornforth, Daniel Mitchell and Myles Allen

940 Commentary: China–Russia gas deal for a cleaner China  
Wenjie Dong, Wenping Yuan, Shuguang Liu, John Moore, Peijun Shi, Shengbo Feng, Jieming Chou, Xuefeng Cui and Kejun Jiang

943 Commentary: China's hydrofluorocarbon challenge  
Junjie Zhang and Can Wang

945 Commentary: The global groundwater crisis  
J. S. Famiglietti

## **FEATURE**

949 News Feature: The next water cycle  
Lisa Palmer

## **ANALYSIS**

951 Policy Watch: A bioeconomy to fight climate change  
Sonja van Renssen

## **RESEARCH HIGHLIGHTS**

954 Our choice from the recent literature

## **NEWS & VIEWS**

955 Physical and political impacts: Complex river boundaries at risk  
Shlomi Dinar

956 Oceanography: Where's the heat?  
Gregory C. Johnson and John M. Lyman

958 Time of emergence: Moving up early detection  
Jianjun Yin

959 Warming trends: A flatter Earth  
Alexander R. Stine

## **PERSPECTIVE**

961 Feasible mitigation actions in developing countries  
Michael Jakob, Jan Christoph Steckel, Stephan Klasen, Jann Lay, Nicole Grunewald, Inmaculada Martínez-Zarzoso, Sebastian Renner and Ottmar Edenhofer

## REVIEW ARTICLE

- 969 **Benthic coral reef calcium carbonate dissolution in an acidifying ocean**  
Bradley D. Eyre, Andreas J. Andersson and Tyler Cyronak

## LETTERS

- 977 **Effectiveness of US state policies in reducing CO<sub>2</sub> emissions from power plants**  
Don Grant, Kelly Bergstrand and Katrina Running
- 983 **Linearity between temperature peak and bioenergy CO<sub>2</sub> emission rates**  
Francesco Cherubini, Thomas Gasser, Ryan M. Bright, Philippe Ciais and Anders H. Strømman
- 988 **Recent geographic convergence in diurnal and annual temperature cycling flattens global thermal profiles**  
George Wang and Michael E. Dillon  
→N&V p959
- 993 **Modelled glacier response to centennial temperature and precipitation trends on the Antarctic Peninsula**  
Bethan J. Davies, Nicholas R. Golledge, Neil F. Glasser, Jonathan L. Carrivick, Stefan R. M. Ligtenberg, Nicholas E. Barrand, Michiel R. van den Broeke, Michael J. Hambrey and John L. Smellie
- 999 **Quantifying underestimates of long-term upper-ocean warming**  
Paul J. Durack, Peter J. Gleckler, Felix W. Landerer and Karl E. Taylor  
→N&V p956
- 1006 **Time of emergence for regional sea-level change**  
Kewei Lyu, Xuebin Zhang, John A. Church, Aimée B. A. Slangen and Jianyu Hu  
→N&V p958
- 1011 **Detection and impacts of leakage from sub-seafloor deep geological carbon dioxide storage**  
Jerry Blackford, Henrik Stahl, Jonathan M. Bull *et al.*

## ARTICLES

- 1017 **Determinants of stagnating carbon intensity in China**  
Dabo Guan, Stephan Klasen, Klaus Hubacek, Kuishuang Feng, Zhu Liu, Kebin He, Yong Geng and Qiang Zhang
- 1024 **Adaptation of a globally important coccolithophore to ocean warming and acidification**  
Lothar Schlüter, Kai T. Lohbeck, Magdalena A. Gutowska, Joachim P. Gröger, Ulf Riebesell and Thorsten B. H. Reusch
- 1031 **Deep-ocean contribution to sea level and energy budget not detectable over the past decade**  
W. Llovel, J. K. Willis, F. W. Landerer and I. Fukumori  
→N&V p956
- 1035 **Erratum**