



August 2014

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The past looms large in the Orkney Islands.

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Meet some of the chimpanzees that changed Jane Goodall's life.

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In Russia's Franz Josef Land the melting ice is bringing changes.

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Trench-fighting soldiers of World War I left behind a legacy underground.

By Evan Hadingham Photographs by Jeffrey Gusky

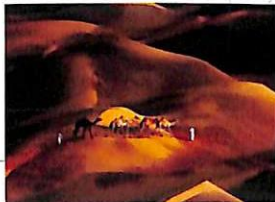
Arctic terns take flight near Rudolf Island, the northernmost point in Franz Josef Land.

CORY RICHARDS

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**Shark Repeller**

Technology could keep surfers safe.

**The Return of Koa**

Hawaii's native tree is coming back.

**Traffic Robot**

In Kinshasa, crossing the street is fun.

**Seems Like Old Times**

This fork has a story to tell.

**Cigarettes Burn Out**

It's been 50 years since the surgeon general's first report on smoking.

**Mangroves on the Move**

The tree's range is moving north.

**Maya Maidens**

Mysterious figurines come to light in a royal tomb.

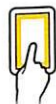


**Food Banks**

Feeding America is a network of more than 200 food banks.

**The Fight for Bullfighting**

Can special cultural status save this Spanish tradition?



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**Orkney Islands**  
 Video

Explore the archaeology of the archipelago.



**Hunger in America**  
 Video

Reaching out in rural Arkansas



**World War I**  
 Gallery

See life in the trenches.

144 Found



**On the Cover** The Stones of Stenness—a Neolithic ceremonial circle older than Stonehenge—stand watch on the Scottish archipelago of Orkney.

Photograph by Jim Richardson

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PHOTO: SHANNON SANDERS, NGM STAFF (HUNGER)



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Off the coast of Malaysia a Bajau man leans from a boat to fish, as his people have done for centuries. Story on page 80.

MATTHIEU PALEY

## September 2014

54 **Rethinking Nero**

He's been reviled for centuries. But Nero's image, like his gilded palace, is under renovation.

By Robert Draper

Photographs by Richard Barnes and Alex Majoli

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Would eating like our Stone Age ancestors really be healthier for us—and the planet?

By Ann Gibbons Photographs by Matthieu Paley

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112 **A World Apart**

Now the southern Line Islands will be protected.

By Kennedy Warne Photographs by Brian Skerry

122 **Divided Kingdom**

Thailand is torn between the monarchy of the past and the politics of the present.

By Seth Mydans Photographs by James Nachtwey

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## Surf's Down, Mate!

Off the east coast of Australia, the size of waves is dropping.

## Suited for Space

Future astronauts may trade bulky suits for "shrink-wrap" garments.

## Reading the Wag-Ometer

A dog's tail tells the tale about canine emotions.

## Who's on First?

Minor league baseball covers the bases for colorful team names.

FOOD

## À La Carte

Dig into our menu of food facts.

## Tooth and Claw

What do a prehistoric crustacean and actor Johnny Depp have in common?

## Splitting Hairs

We may soon have a better treatment for baldness.

## Boning Up

Detailed scans let you spin and zoom in on ancient bones and artifacts.



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**On the Cover** The emperor Nero was in fact "no worse than those who came before and after him," says journalist Marisa Ranieri Panetta. Yet throughout history he has been depicted as a depraved murderer who let Rome burn in A.D. 64. *Artist's rendering of Nero by Sam Weber*

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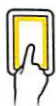
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Our Evolving Diet  
**Video**  
What humans are eating  
around the globe

A Global Menu  
**Interactive**  
See how tastes are  
converging.

PHOTO: MATTHIEU PALEY



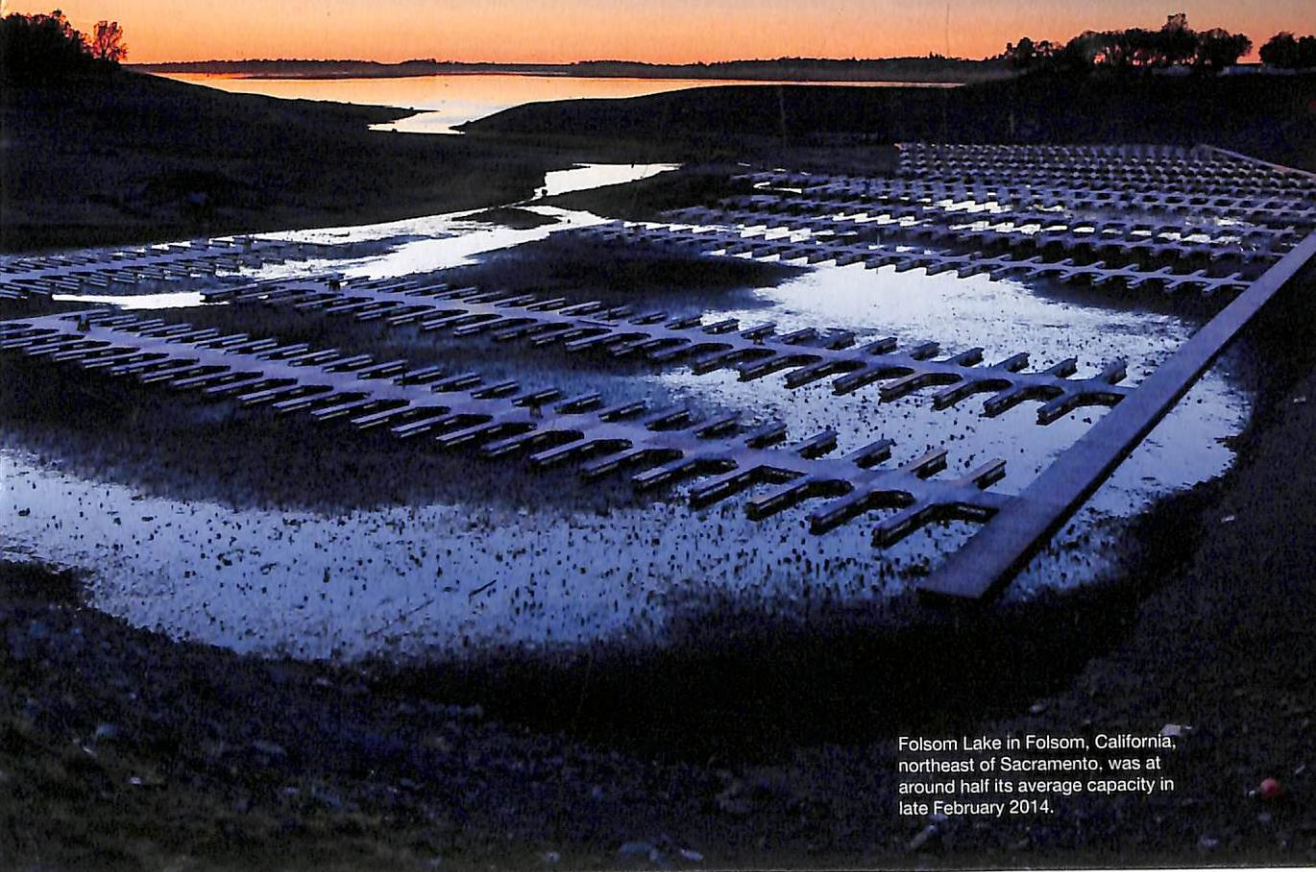
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NATIONAL  
GEOGRAPHIC



VOL. 2 • NO. 3



Folsom Lake in Folsom, California, northeast of Sacramento, was at around half its average capacity in late February 2014.

## 124 When the Snows Fail

The drought-ridden western U.S. once slaked its thirst with winter snowfalls. Now, that relief is dwindling. *By Michelle Nijhuis Photographs by Peter Essick*

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### King Cretaceous

Meet *Spinosaurus aegyptiacus*, the largest carnivore ever to walk—and swim—on Earth.

*By Tom Mueller  
Photographs by Mike Hettwer*

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### The Next Green Revolution

Supercrops will help, but biotech alone can't head off a food crisis.

*By Tim Folger  
Photographs by Craig Cutler*

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### Medieval Mountain Hideaway

In the Svaneti region of Georgia's Caucasus Mountains, the ways of the Middle Ages live on.

*By Brook Larmer  
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100 **Carving the Bird** Everybody has a favorite chicken part in the multibillion-dollar global market.

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*Birds Caged by Climate*

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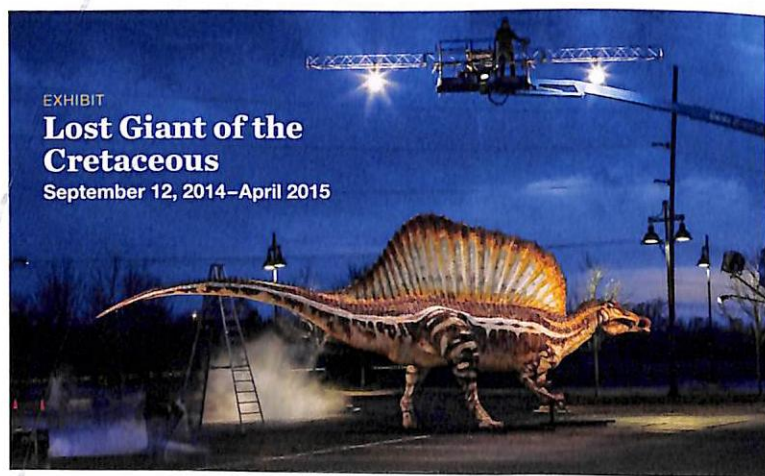
**On the Cover** With sharp, splayed teeth and a six-foot sail along its back, the *Spinosaurus* ruled the mid-Cretaceous in what is now northern Africa.

Photo by Mike Hettwer, assisted by Mark Thiessen. NGM Staff



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## National Geographic Society



The 50-foot-long *Spinosaurus* (above) photographed for the cover will menace visitors to National Geographic's courtyard in Washington, D.C. (but a full-size skeleton of the dinosaur will stay inside the museum).

### WORLD FOOD DAY

The Food and Agriculture Organization of the United Nations declared October 16 World Food Day to draw attention to hunger, malnutrition, food security, and agricultural development. Visit National Geographic's food blog, *The Plate*, at [theplate.nationalgeographic.com](http://theplate.nationalgeographic.com) for updates on this year's events.



### NG BOOKS FOODS FOR HEALTH Barton Seaver and P. K. Newby

Discover the foods that have a high nutritional—and low environmental—impact in this science-based guide that will have you and your family shopping, cooking, and eating more sustainably. Find it wherever books are sold (\$22.95).



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PHOTO: MIKE HETTWER ART: ÁLVARO VALIÑO

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From a cliffside camp on Nepal's Ama Dablam—19,000 feet high in the Himalaya—Da Nuru Sherpa talks with family on his cell phone.



## 72 Sorrow on the Mountain

How the shocking avalanche that killed 16 unfolded on Mount Everest

By Chip Brown Photographs by Aaron Huey

**Sherpa Pride and Sacrifice** The Sherpas' profession brings peril but also prosperity.

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### Mindsuckers

Body-snatched zombie ladybugs! It's not science fiction, but a real invasion of parasitic organisms.

By Carl Zimmer  
Photographs by Anand Varma  
Graphic novellas by  
Matthew Twombly

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### Carnivore's Dilemma

The average American ate 54 pounds of beef last year—an appetite that's raising questions.

By Robert Kunzig  
Photographs by Brian Finke

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### Monkeys of Morocco

A year among Barbary macaques reveals that the endangered creatures are attentive parents.

By Rachel Hartigan Shea  
Photographs by  
Francisco Mingorance

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- 144 *Basic Instincts*

**On the Cover** A ladybug stung by a parasitic wasp will host the wasp's egg until it hatches, then protect the wasp larva as it emerges from the ladybug and spins a cocoon. *Photo by Anand Varma*



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### NG EXHIBITS

Getting food from farm to fork can be tricky. Cooking, eating, and celebrating are simpler. Visitors to the exhibit *Food: Our Global Kitchen* can explore the many ways food is made and moved around the world. Then they can taste seasonal treats, cook a virtual meal, and peek into famous figures' dining rooms. The exhibit opens October 16 at the National Geographic Museum in Washington, D.C.

FOOD



### NG CHANNEL

Since prehistoric times, our appetite for meat has altered the ecosystem as well as the landscape. But at what cost? This fall—as part of a new series, *Eat: The Story of Food*—the National Geographic Channel tears into the subject of meat and how it tells the story of humankind. Check local listings for airdates.



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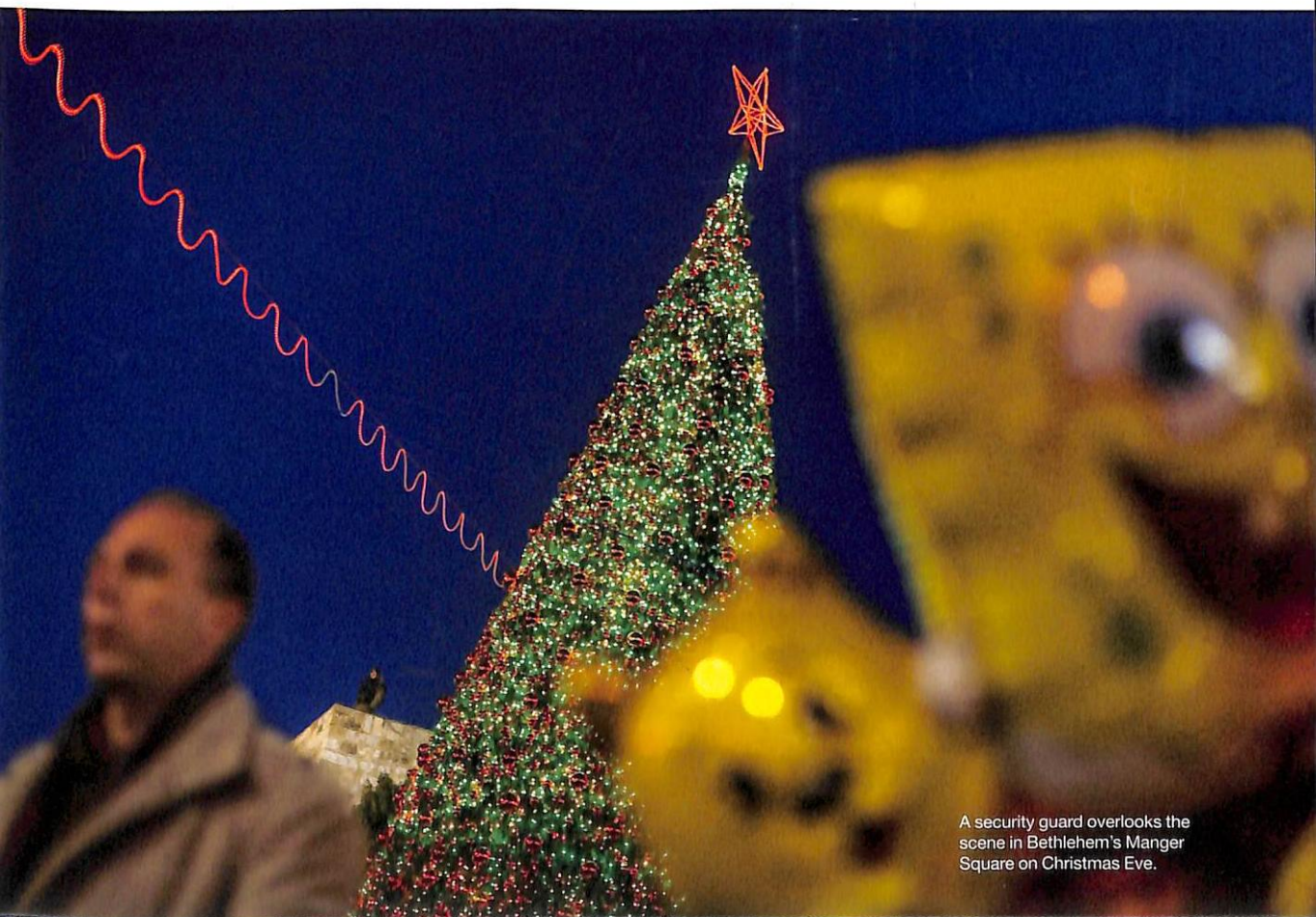
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Editor: Ms. Nikulder Venkatraman





A security guard overlooks the scene in Bethlehem's Manger Square on Christmas Eve.

## 86 Blessed. Cursed. Claimed.

Continuing his Out of Eden Walk, the author travels through land covered by three faiths. *By Paul Salopek Photographs by John Stanmeyer*

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### Just Press Print

Coming from a 3-D printer near you: airplane parts, pizzas, living tissue, and much more.

*By Roff Smith  
Photographs by Robert Clark*

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### The Joy of Food

For as long as people have gathered to break bread together, we have savored food's power to nourish, delight, and unite.

FOOD

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### The Communal Table

In Milpa Alta, Mexico, feasts feed souls.

*By Victoria Pope  
Photographs by Carolyn Drake*

**#YOURPLATE  
SHOW US YOUR  
FEAST PHOTOS**

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Can a marine reserve network save some of the richest waters in the world?

*By Kennedy Warne  
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*By Alexandra Fuller  
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### On the Cover

The dress that the model is wearing, was made on a 3-D printer.

Photo: Robert Clark



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## National Geographic Society



### #YourPlate

Use the hashtag **YourPlate** to share photos of people coming together over food on Facebook, Twitter, and Instagram. Tag @NatGeo.



Twins Chris and Nick Holste first appeared in photographer Joel Sartore's November 1998 *Geographic* story on Nebraska. Sartore recently met up with the brothers (above), now 41, to re-create the original photo (see cover).



### NG CHANNEL

This year Big Cat Week kicks off with the show *Man v. Lion*. To learn about lions' hunting and eating habits, host Boone Smith locks himself inside a box in the middle of a hungry pride, then watches as the lions devour a kill. For details on our Big Cats Initiative, visit [causeanuproar.org](http://causeanuproar.org).



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**Corrections** AUGUST 2014, VISIONS Pages 18-19: The item in the photo described as a traction engine is actually a portable steam boiler, likely once used to sterilize garden soil.

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