



August 2014

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The past looms large in the Orkney Islands.

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

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130 **The Hidden World of the Great War**

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By Evan Hadingham Photographs by Jeffrey Gusky

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CORY RICHARDS



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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.

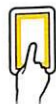


**Food Banks**

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

**The Fight for Bullfighting**

Can special cultural status save this Spanish tradition?



**DIGITAL EDITIONS**

National Geographic is available on the iPad, the Kindle Fire, and the iPhone.



**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.

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**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)



Please recycle.





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

80 **FOOD** **The Evolution of Diet**

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

By Ann Gibbons Photographs by Matthieu Paley

108 **Field Rations Go Gourmet:** How the world's armies travel on their stomachs

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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22 **Your Shot**

28 **Photo Journal**

39 **NEXT**



## 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.



144 **Found**



**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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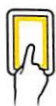
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Follow a time line  
of Nero's city.



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

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

PHOTO: MATTHIEU PALEY



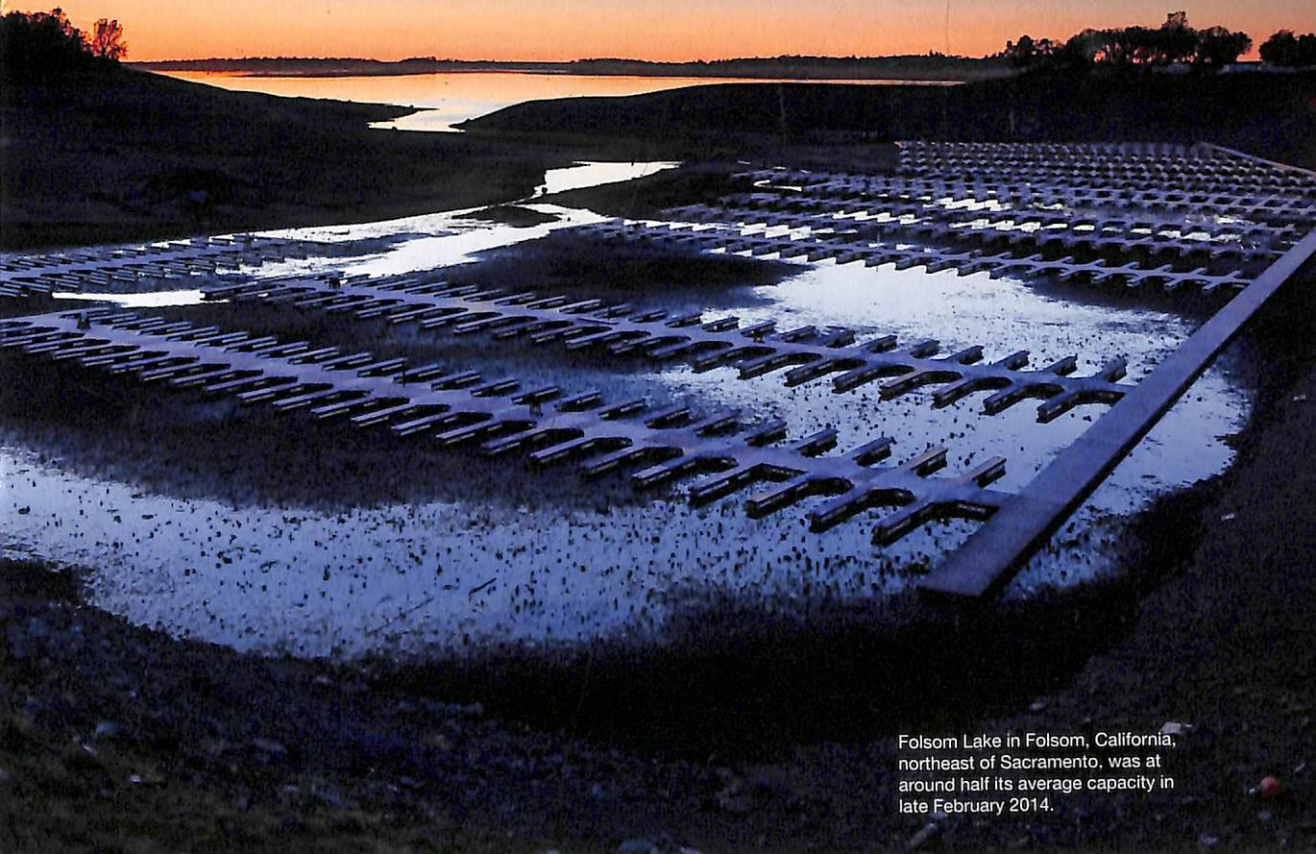
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NATIONAL  
GEOGRAPHIC



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*

## 56

### King Cretaceous

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

*By Tom Mueller  
Photographs by Mike Hettwer*

## 76

FOOD

### The Next Green Revolution

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

*By Tim Folger  
Photographs by Craig Cutler*

## 102

### Medieval Mountain Hideaway

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

*By Brook Larmer  
Photographs by Aaron Huey*

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



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12 **3 Questions**

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#### WILD THINGS

*Birds Caged by Climate*

#### SCIENCE

*Screws of Silk;  
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*Hybrids Beat the Traffic  
Mars MAVEN*

#### ANCIENT WORLDS

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#### THE FUTURE OF FOOD

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### 34 VISIONS

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### 144 *Basic Instincts*

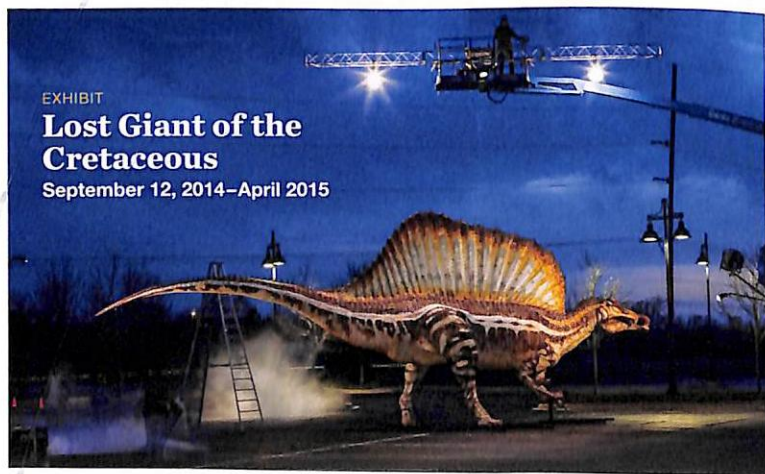
**On the Cover** With sharp, splayed teeth and a six-foot sail along its back, the *Spinosaurus* ruled the mid-Cretaceous in what is now northern Africa.

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.

## 52

### 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

## 106 FOOD

### 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

## 134

### 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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*À La Carte*

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*Dancing Machine*

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*Squid in Flight*  
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*Berry Road Trip*  
*Precision in the Fields*

- 38 **VISIONS**  
*Your Shot*  
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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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## National Geographic Society



### 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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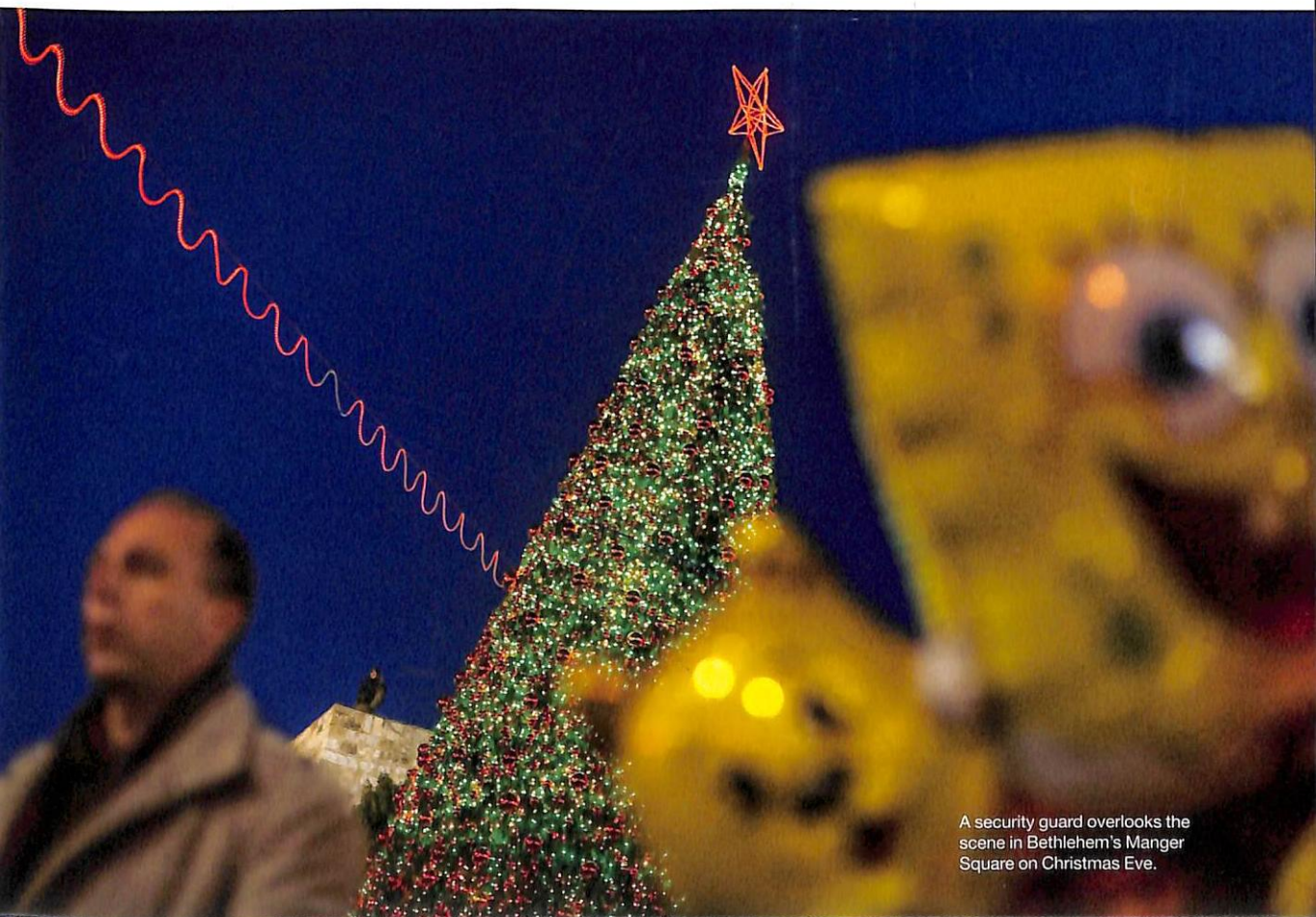
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Editor: Ms. Nikulder Venkatraman





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*

46

### 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*

62

### 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

76

### The Communal Table

In Milpa Alta, Mexico, feasts feed souls.

*By Victoria Pope  
Photographs by Carolyn Drake*

#YOURPLATE  
SHOW US YOUR  
FEAST PHOTOS

108

### Cross Currents

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

*By Kennedy Warne  
Photographs by Thomas P. Peschak*

126

### Cowboys on the Edge

Like the feral cattle they capture, the *baguales* are a breed apart.

*By Alexandra Fuller  
Photographs by Tomás Munita*



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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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### PROOF

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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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PHOTO: MARIELLA FURRER, NATIONAL GEOGRAPHIC CHANNELS



# NATIONAL GEOGRAPHIC

APRIL 2015 • VOL. 2 • NO. 9



Men dressed as devils gather each year near the Hornocal Mountains to celebrate the Pachamama ceremony.

## 134 Proof | Argentine Identities

A photographer glimpses many cultures in the faces of the country's people.

Story and Photographs by Marco Veraschi

40

### Hubble's Greatest Hits

After 25 years on the job, the Hubble Space Telescope stands as "one of the world's most productive and popular scientific machines."

By Timothy Ferris

54

### The Nuclear Tourist

Abandoned 28 years ago, the land around the failed Chernobyl power plant now teems with tourists.

By George Johnson  
Photographs by Gerd Ludwig

72

### Trajan's Amazing Column

On a pillar of Carrara marble, an emperor's exploits tower over Rome.

By Andrew Curry  
Photographs by Kenneth Garrett

92

### The Bug That's Eating the Woods

A warming climate is good for pine beetles—which is very bad for forests.

By Hillary Rosner  
Photographs by Peter Essick

110

### Lincoln

Along the train route that his body traveled home, people debate Lincoln's legacy.

By Adam Goodheart  
Photographs by Eugene Richards

**On the Cover** Images of the "Pillars of Creation" are among thousands the Hubble Space Telescope has captured. Image: NASA/ESA/Hubble Heritage Team/STScI/AURA. Colorized composite/mosaic.

**Corrections and Clarifications**  
Go to [ngm.com/more](http://ngm.com/more).





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In Laos, critics of a planned hydroelectric dam say it will block fish migration on the Mekong River, where this fisherman plies his trade.

## 84 Harnessing the Mekong

Running for more than 2,600 miles, the Mekong River produces fish when it flows free and clean electricity when it's dammed. Therein lies Southeast Asia's dilemma.

By Michelle Nijhuis Photographs by David Guttenfelder

## 42

### It's Time for a Conversation

When one of Earth's smartest creatures vocalizes, it fuels a heated debate among scientists: Are dolphins actually speaking a complex language?

By Joshua Foer  
Photographs by Brian Skerry

## 66

### Quest for a Superbee

Honeybees top the list of insect pollinators on which one-third of food crops depend. Can we breed a hardier bee?

By Charles C. Mann  
Photographs by Anand Varma

## 110

### Taking Back Detroit

With its bankruptcy in the rearview mirror, the Motor City is attracting investors, innovators, and adventurous would-be fixers.

By Susan Ager  
Photographs by Wayne Lawrence

## 134 Proof | Walking the Way

A pilgrimage through France and Spain is "an ancient tradition thriving in a modern world."

Story and Photographs by Michael George

**On the Cover** Scientists working with bottlenose dolphins (this one lives at a Vallejo, California, animal park) are looking for a link between the animals' many vocalizations and their behaviors. Photo by Brian Skerry

**Corrections and Clarifications** Go to [ngm.com/more](http://ngm.com/more).





In Tokha, Nepal, Kumari Dangol has been worshipped as a living goddess since she was a baby. She's now nine years old.



## 82 Living Goddesses of Nepal

In Nepalese tradition a little girl can become a living goddess—but only for so long.

By Isabella Tree Photographs by Stephanie Sinclair

34

### High Science

With marijuana's rising acceptance comes more debate about its potential benefits and drawbacks.

By Hampton Sides  
Photographs by Lynn Johnson

62

### Born to Be Wild

Can dolphins return to the sea after captivity in a marine park? Some can—once they relearn how to be wild.

By Tim Zimmermann

102

### Little Park of Wonders

Its world-renowned fossil bed and stunning vistas make Canada's Yoho National Park a standout.

By McKenzie Funk  
Photographs by Peter Essick

118

### Sins of the Aral Sea

Diverted to water crops, what was once a vast inland sea is 90 percent gone. Can it be revived?

By Mark Synnott  
Photographs by Carolyn Drake

### 136 Proof | Bug-Eyed

A high-powered microscope reveals insect and spider eyes as marvels of adaptation.

Story and Photographs by Martin Oeggerli

**On the Cover** Crossbreeding has yielded countless strains of cannabis. The flowering herb, commonly known as marijuana, can grow up to 16 feet tall. Photo illustration by Bill Marr

**Corrections and Clarifications** Go to [ngm.com/more](http://ngm.com/more).





## 58 On a Roll

Inspired by a bold chef and fueled by social media, a global food-truck craze picks up speed.  
By David Brintley Photographs by Gerd Ludwig

## 32

### Stalking a Killer

The latest Ebola crisis may yield clues as to where the virus hides between outbreaks.

By David Quammen  
Photographs by Pete Muller

## 72

### Feeding Frenzy

At feeding time killer whales reveal not so much their appetite as their cunning.

By Virginia Morell  
Photographs by Paul Nicklen

## 86

### In Gandhi's Footsteps

Across India, the author sees where Mohandas Gandhi shaped history. But the leader's mark on modern life is less clear.

By Tom O'Neill  
Photographs by Rena E'tendi

## 108

### Pluto at Last

This month a spacecraft launched in 2006 will get a close look at our solar system's former ninth planet.

By Nadia Drake  
Art by Dana Berry

## 120 Proof | Mountain Men

They reenact the early 1800s fur-trading life and celebrate self-sufficiency.

By Jeremy Berlin Photographs by David Burnett

**On the Cover** A camouflage-clad bush-meat hunter poses in the Democratic Republic of the Congo, site of a 1976 Ebola outbreak.  
Photo by Pete Muller

**Corrections and Clarifications** Go to [ngm.com/more](http://ngm.com/more).