

# CONTENTS



**On the Cover**  
Swimmer Katie Ledecky, a five-time Olympic gold medalist, is known for her tough work ethic, but she also relies on sports science to improve performance.  
PHOTOS BY JOHN HUET

PROOF



# 8

**Wild Gems of Russia**  
Russia has imposed its strictest land-use protections on 85 million acres. That's more than any other country—and only the beginning of the story.  
PHOTOGRAPHS BY SERGEY GORSHKOV

EMBARK

# 17

**THE BIG IDEA**  
**30 Years of Climate Lessons**  
As the problem of human-driven climate change has grown, the response has not kept pace.  
BY ANDREW REVKIN



**GENIUS**  
**Landscape Activism**  
Kate Orff designs resilient coasts and waterways for the future.  
BY RACHEL HARTIGAN SHEA

**ALSO**  
Your Home Is Bugged  
How Birds Predict Quakes  
Soccer-Star Map

EXPLORE



# 30

**TOOL KIT**  
**Creating the World**  
What does it take to model Earth? Peer into the tool kit of a bespoke globemaker.  
BY NINA STROCHLIC

**DECODER**  
**Clean Energy in a Coal Mine**  
In Germany an old mine may become an underground battery for wind and solar energy.  
BY JASON TREAT

**ALSO**  
Getting to Rwenzori  
She Shields Sharks  
Armadillo Amour



FEATURE



## FEATURES

**Faster. Higher. Smarter. Stronger.** Scientists are pushing the limits of human athletic performance.

BY CHRISTINE BRENNAN  
..... P. 42

**Predators in the Night** Meat-eating bats haunt a Maya temple.

BY VIRGINIA MORELL  
PHOTOGRAPHS  
BY ANAND VARMA  
..... P. 72

## Faces of the Future

In the United States today, Latinos are a major focus of the immigration debate. But in communities nationwide, they're established, rising to power, and offering a glimpse of what's ahead for the nation.

BY HÉCTOR TOBAR  
PHOTOGRAPHS  
BY KARLA GACHET  
AND IVAN KASHINSKY  
..... P. 86

## DISPATCHES

**Power Struggle** Puerto Rico is recovering from the longest blackout in U.S. history.

BY DAVID BRINDLEY  
PHOTOGRAPHS BY  
CAROL GUZY ..... P. 104

**Lost at Sea** Rarely seen seabirds are suffering declines.

BY JONATHAN FRANZEN  
PHOTOGRAPHS  
BY THOMAS P. PESCHAK  
..... P. 110