

09.2019

NATIONAL GEOGRAPHIC

THE NEW COLD WAR
AS THE ICE MELTS,
OLD RIVALS SCRAMBLE
FOR POSITION

THE

THE CARBON THREAT
THAWING TUNDRA
WILL SPEED UP
GLOBAL WARMING

ARCTIC

IS HEATING UP





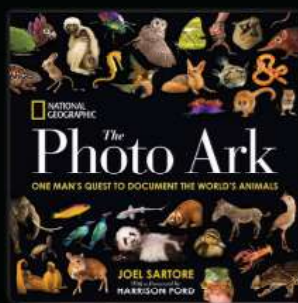
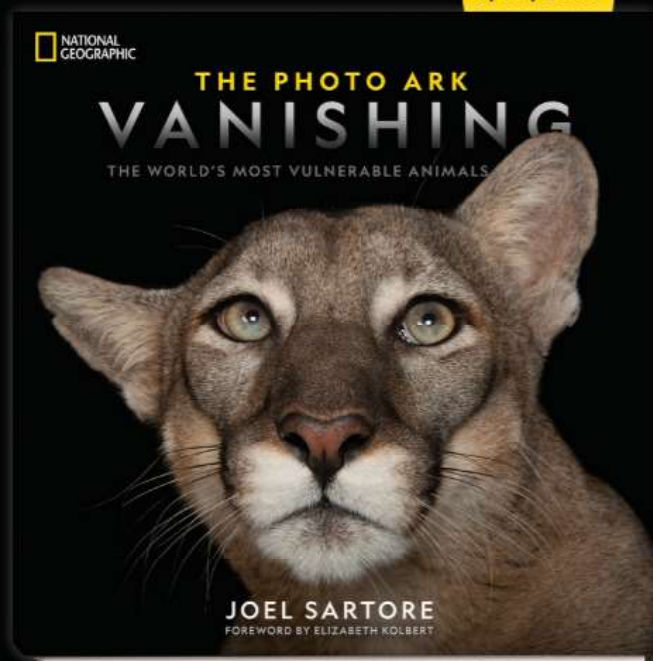
"I WANT PEOPLE TO CARE,
TO FALL IN LOVE, AND
TO TAKE ACTION."

—Joel Sartore

ON SALE
9/10/2019

FOR MANY OF EARTH'S
CREATURES, TIME IS
RUNNING OUT.

Joel Sartore, founder of The Photo Ark, pledged to photograph every animal species in captivity and inspire people to care and take action. Filled with stunning and exquisite photographs, these books gloriously showcase the infinite variety of the animal kingdom and convey a powerful message with humor, poetry, compassion, and art.



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PHOTOARK
JOEL SARTORE

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This map shows the sea ice extent—the amount of ocean surface area covered by ice—in September 2012, its lowest point since record-keeping began in 1979.

NATIONAL SNOW AND ICE DATA CENTER; GREEN MARBLE

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PHOTOGRAPHS BY BARRY ROSENTHAL

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A stunning data-driven image of Jupiter.

IMAGE BY KEVIN GILL



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EXPEDITIONS

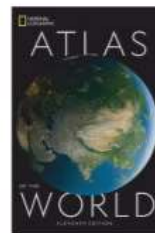
SMALL GROUP TOURS | SMALL SHIP CRUISES | FAMILY TOURS | PHOTOGRAPHY TOURS | PRIVATE TOURS



NAT
GEO
WILD

Reforming the toughest canines on *Dog: Impossible*

The most aggressive, dangerous, and misunderstood canines—the ones that most trainers won't touch—are the dogs that Matt Beisner (above) takes on. Since transforming his own bad behaviors, Beisner says, he has dedicated his life to helping owners learn how to handle their dogs, as well as to rescuing and rehabilitating animals that others turn away. The six-episode series *Dog: Impossible* premieres September 8 at 10/9c on Nat Geo WILD.



BOOKS

A new *Atlas of the World* to explore

The 11th edition of this classic reflects the state of the world today with authoritative maps, data-driven graphics, and much more. It's available October 1 wherever books are sold and at shopng.com/books.

TELEVISION

Plunge back into *Life Below Zero*

Back for a 12th season: *Life Below Zero*, the saga of tough Alaskans living off the grid. Witness scenes of whiteout snowstorms and encounters with man-eating carnivores. The new season premieres September 24 at 9/8c on National Geographic.

NAT GEO TRAVELER

Our music issue maps out 'sound journeys'

Travels with a hip-hop artist, musical quests and curiosities, a guide to global sound scenes—and each article is paired with a Spotify playlist. There's more on *Traveler's* sound journeys issue at natgeotravel.com/music.

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SPECIAL ISSUE

The State of the Arctic

BY SUSAN GOLDBERG PHOTOGRAPH BY KATIE ORLINSKY



This Inupiat youngster accompanied a hunting party that unsuccessfully sought bearded seals in the Arctic Ocean near Utqiaġvik (Barrow), Alaska. Warming weather has affected the Inupiat's hunts, the community's main source of food.

AS SOIL A COUPLE OF FEET
DEEP GOES FROM FROZEN
TO MUSH, THE RELEASE OF
CARBON COULD PUSH CLIMATE
CHANGE TO A TIPPING POINT.

IN THE SPRING of 2018, my husband and I went to the Arctic on a National Geographic expedition. We'd never been before and were struck by the scale of its rugged beauty, the white-blue glaciers glinting in the midnight sun, and the abundant wildlife. I'll never forget seeing an enormous walrus face down a young polar bear (which wisely decided to move along).

I also won't forget the ship's captain, Leif Skog, announcing that we had traveled farther north than this expedition ever had before. We knew that was saying something—Skog had been navigating polar waters for four decades. How amazing, we initially thought.

And then, of course, the experience turned sobering as we realized why we'd gotten so far: because sea ice that normally halts the ship's northward progress had melted. In this issue we look at that and other effects of climate change on the Arctic, from shifting geopolitical power to thawing permafrost.

As soil a couple of feet deep goes from frozen to mush, the release of carbon could push climate change to a tipping point, writer Craig Welch reports in "The Threat Below" in this issue. With the Arctic warming much faster than the rest of the planet, Welch writes, "In 2017 tundra in Greenland faced its worst known wildfire." Meanwhile, "Laksely, Norway, 240 miles above the Arctic Circle, recorded a blistering 32 degrees Celsius, or 90 degrees Fahrenheit. Arctic reindeer hid in road tunnels for relief."

Like what I saw in the Arctic, what you'll read here is thought provoking. May it also be galvanizing, spurring each of us to do what we can to slow the advance of climate change. Thank you for reading *National Geographic*. □

PROOF

NATIONAL GEOGRAPHIC



PHOTOGRAPHS BY BARRY ROSENTHAL

LOOKING AT THE EARTH FROM EVERY POSSIBLE ANGLE



