Best of Show

46th Annual CaGIS Map Design Competition

Wild Migrations: Atlas of Wyoming’s Ungulates

Matthew J. Kauffman¹, James E. Meacham², Hall Sawyer³, Alethea Y. Steingisser², William Rudd⁴, and Emilene Ostlind⁵

1, US Geological Society and University of Wyoming
2, University of Oregon
3, West Ecosystems Technology, Inc
4, Wyoming Migration Initiative
5, University of Wyoming
Wild Migrations
Atlas of Wyoming’s Ungulates

Foreword by Annie Proulx

Matthew J. Kauffman
James E. Meacham
Hall Sawyer
Alethea Y. Steingisser
William J. Rudd
Emilene Ostlind
Best Thematic Map (Tie)

46th Annual CaGIS Map Design Competition

How Birds Migrate

Fernando G. Baptista, Lauren E. James, Daisy Chung, Eve Conant, Irene Berman-Vaporis, Scott Zillmer, Matthew W. Chwastyk, Claire Trainor, & Riley Champine

National Geographic Magazine
The Cartography and Geographic Information Society

Best Thematic Map (Tie)

46th Annual CaGIS Map Design Competition

Drowning In Plastic

Jason Treat, Ted Sickley & Ryan T. Williams
National Geographic Magazine
Drowning in Plastic

Plastic waste has been found (pay) in the oceans from the Arctic to the Antarctic and from the surface to the seafloor. Millions of tons enter the seas each year, much of it from places where it has been dumped carelessly on land and into rivers, lakes, and oceans swept out to sea.

ON LAND

- Marine debris
- Microplastics

IN RIVERS

- Plastic trash
- Microplastics

IN THE OCEAN

- Observed plastic
- Microplastics

Missing plastic

Researchers found just one percent of the plastic they expected floating at the sea surface—most was missing. One reason: Plastic breaks down into tiny pieces, which are often invisible but may greatly affect marine life.

Fragmentation

Silt, waves, and digestion break plastic into smaller pieces.

Predation

Marine animals eat microplastics, mistaking them for food.

Sinking

Plastic that's heavier than water can sink and travel long distances.

Shore deposition

Plastic fragments are transported by waves and tides back to land.
Thematic Map
Honorable Mention

46th Annual CaGIS Map Design Competition

American Tapestry

Alberto Lucas Lopez, Shelley Sperry, Manuel Canales, Martin Gamache, Matthew W. Chwastyk, Riley Champine, Ryan Morris, & Kelsey Nowakowski

National Geographic Magazine
The Cartography and Geographic Information Society

Thematic Map
Honorable Mention

46th Annual CaGIS Map Design Competition

Tornado Migration

John Nelson

ESRI
The Cartography and Geographic Information Society

46th Annual CaGIS Map Design Competition

Thematic Map
Honorable Mention

Rivers of Plastic

John Nelson
ESRI
RIVERS OF PLASTIC

The FIVE PRINCIPAL Plastic Waste Contributing Rivers – of the World

Plastic waste maps is illustrated herein as maps of Asia, Europe, and Africa, each area of which average four icons.

HOW TO READ THIS DIAGRAM:

The rivers given in this diagram, and the principal members of each, are as follows and are displayed herein without regard to any political or geographic divide. The reader is encouraged to observe the circular icons within the areas of each country for a reference of comparative sizes.

- WASTES CONSUMED PER COUNTRY PER DAY:
  - India: 4,525
  - China: 3,923
  - Indonesia: 1,982
  - Bangladesh: 326
  - Pakistan: 59

- WASTES CONSUMED PER COUNTRY PER MONTH:
  - India: 136,000
  - China: 124,000
  - Indonesia: 74,000
  - Bangladesh: 14,000
  - Pakistan: 2,000

- WASTES CONSUMED PER COUNTRY PER YEAR:
  - India: 1,632,000
  - China: 1,488,000
  - Indonesia: 948,000
  - Bangladesh: 173,000
  - Pakistan: 24,000


www.nature.com/articles/s41561-019-0279-7

Created by: John Sullivan, The Entomological Society, Research Institute

Geographic data were derived from the following sources:
  - World Bank, World Development Report
  - United Nations, United Nations University
  - Global Plastics Initiative

Material and design were made possible through a grant from the NPPA (National Plastics Processing Association).

Stylized graphics originally created by Andrew Rothschild, the world's first plastic artist.

Excerpted by The Nature Conservancy.
The Cartography and Geographic Information Society

Best Atlas or Book

46th Annual CaGIS Map Design Competition

Wild Migrations: Atlas of Wyoming’s Ungulates

Matthew J. Kauffman¹, James E. Meacham², Hall Sawyer³, Alethea Y. Steingisser², William Rudd⁴, and Emilene Ostlind⁵
1, US Geological Society and University of Wyoming
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5, University of Wyoming
WILD MIGRATIONS
ATLAS OF WYOMING’S UNGULATES

Foreword by Annie Proulx

Matthew J. Kauffman
James E. Meacham
Hall Sawyer
Alethea Y. Steingisser
William J. Rudd
Emilene Ostlind
Atlas or Book
Honorable Mention

46th Annual CaGIS Map Design Competition

Space Atlas, 2nd ed.,
Mapping the Universe and Beyond

Matthew W. Chwastyk
National Geographic
Atlas or Book
Honorable Mention

46th Annual CaGIS Map Design Competition

El Yunque National Forest Atlas

Maya Quiñones¹; Isabel K. Parés-Ramos²; William A. Gould¹,²; Grizelle González¹,³; Kathleen McGinley¹,⁴; Pedro Ríos⁵

¹-USDA Forest Service, International Institute of Tropical Forestry, PR
²-USDA Caribbean Climate Hub, San Juan, PR
³-University of Puerto Rico, San Juan, PR
⁴-North Carolina State University, Raleigh, NC
⁵-USDA Forest Service, El Yunque National Forest, Rio Grande, PR
EL YUNQUE NATIONAL FOREST

ATLAS

Forest Service
International Institute of Tropical Forestry
General Technical Report IITF-GTR-47
JUNE 2018
The Cartography and Geographic Information Society

Atlas or Book
Honorable Mention

46th Annual CaGIS Map Design Competition

National Geographic Atlas of World War II

Maya Quiñones¹; Isabel K. Parés-Ramos²; William A. Gould¹,²; Grizelle González¹,³; Kathleen McGinley¹,⁴; Pedro Ríos⁵

National Geographic
Atlas or Book
Honorable Mention

46th Annual CaGIS Map Design Competition

Cartography.

Kenneth Field
Esri
Cartography.

Kenneth Field
Best Recreation or Travel Map

46th Annual CaGIS Map Design Competition

The Inside Passage

Daniel P. Huffman
somethingaboutmaps
Banff, Yoho & Kootenay National Parks: Recreation Map and Visitor Guide

Jeff Clark

Clark Geomatics
The Cartography and Geographic Information Society

Recreation or Travel Map Honorable Mention

46th Annual CaGIS Map Design Competition

Colorado Backpacking Loops North

Dylan Molnar & Christopher Knoll

National Geographic
Recreation or Travel Map Honorable Mention

46th Annual CaGIS Map Design Competition

A Climber’s Map for Joshua Tree, CA

Rick Momsen & Stefani Dawn
Climb-On Maps
A Climber's Map for
Joshua Tree, CA
Crag Summaries, Approaches, and Walkoffs
Best Reference Map

46th Annual CaGIS Map Design Competition

Colonial Pursuits

Matthew W. Chwastyk
National Geographic Magazine
Crude Oil System of North America

Josephine Sajbel and Virginia Mason
S & P Global Platts
Reference Map
Honorable Mention

46th Annual CaGIS Map Design Competition

Virginia Road Trip Map

David Glassett
Peaceful Valley Maps
The Cartography and Geographic Information Society

Best Digital/Interactive Map

46th Annual CaGIS Map Design Competition

Julie’s Improbable Flight: The Journey of a Young Osprey

John Nelson

Esri
Digital/Interactive Map
Honorable Mention

46th Annual CaGIS Map Design Competition

What’s Your Vote Worth?

Sarah Bell and Jacob Wasilkowski

Petrichor Geoviz Studio
https://petrichor.studio/2018/01/whatsyourvoteworth/
The Cartography and Geographic Information Society

Digital/Interactive Map
Honorable Mention

46th Annual CaGIS Map Design Competition

Smoking, Obesity, & Drinking

John Nelson

Esri
The Cartography and Geographic Information Society

Best Map
Other Category

46th Annual CaGIS Map Design Competition

No winners
The Cartography and Geographic Information Society

46th Annual CaGIS Map Design Competition

Other Category
Honorable Mention

Calypso Cartography

Alison Ollivierre

Tombolo Maps and Design
The Cartography and Geographic Information Society

Other Category
Honorable Mention

46th Annual CaGIS Map Design Competition

Typewriter Maps

Daniel P. Huffman

somethingaboutmaps
Typewriter Maps

These are reproductions of three maps that I recently produced on my typewriter: an early 1980s Royal Safari II manual portable model.

Besides experimenting with “vector-ish” linework at right, I also tried to see if I could do raster-style shading, below. It’s fairly coarse, but if you squint/step back, it works pretty decently.

While this began as a novelty, the aesthetic has caught on with a number of people. I think in an era of cleanliness and perfection, people are drawn to things that are organic, messy, and analog. You can see (and, on the original maps, feel) where I needed to apply White-Out, and where parts of the machine could use some cleaning. That’s where a lot of the attraction comes from.
Climate Change and Wildfires in California

Julia de Leon, Cody Hogg, Caroline Berry
University of South Florida
https://arcg.is/14CnyH
David Woodward Award
Honorable Mention

46th Annual CaGIS Map Design Competition

North Carolina’s Polarization Problem

Kati Perry
University of Oregon
https://katherinefperry.github.io/nc-polarization/
Arthur Robinson Award
Best Print Map (tie)

46th Annual CaGIS Map Design Competition

The Southern California Coast

Gilbert Trejo
Humboldt State University
The Cartography and Geographic Information Society

Arthur Robinson Award
Best Print Map (tie)

46th Annual CaGIS Map Design Competition

The Vogt Sisters’ Milwaukee

Ellie Milligan

University of Wisconsin - Madison
Marilyn Vogt
b. 1931
Elizabeth (Betty) Vogt
b. 1934 d. 2016

South Division High School
Both girls attended high school here. They graduated in 1944 and 1945, respectively. The original school was demolished in the 1970s so a larger high school could be built.

The Modjeska Theater
The girls often visited this theater to watch movies. During WWII, they would show patriotic films.

Woolworth's
Betty's favorite store on Mitchell Street. The girls loved to wander around the store and touch everything.

Schuster's
A locally run department store that was another favorite shopping spot for the Vogt girls on Mitchell Street.

St. Anthony's Church
The family's church.

St. Anthony's School
Where Marilyn and Betty attended grade school. The girls would often come over to their parents store after school to get food and treats.

Kosciuszko Park
A favorite park of theirs to play at.

Mitchell Street State Bank
Since their father was a small business owner, Marilyn and Betty often accompanied their parents on trips to the local bank.

938 W. Lapham St.
The home that Marilyn and Betty grew up in.

Milwaukee
The Vogt Sisters' Milwaukee growing up on the Milwaukee's South Side in the 1930s-1950s.

As told by my grandmother, Marilyn. In memory of my great aunt, Betty.

Map by Marilei Michigan / May 10, 2018

This map is not to scale; for artistic and storytelling purposes only.
Arthur Robinson Award
Honorable Mention

46th Annual CaGIS Map Design Competition

Nautical Chart of
Nova Scotia's Halifax Harbour

Jillian Ejdrygiewicz
Centre of Geographic Sciences, NSCC
Arthur Robinson Award
Honorable Mention

46th Annual CaGIS Map Design Competition

East Asians in USA:
Demographic Trends of Diverse Population

Nebojsa Stulic
Ryerson University
EAST ASIANS IN USA

DEMOGRAPHIC TRENDS OF DIVERSE POPULATION

Populations of East Asian origins in the United States are most often hailing from three countries: China, Japan and Korea. They represent a diverse and growing community consisting of both long-established and naturalized citizens and those who immigrated in recent years. Americans who trace their roots to one of these East Asian countries account for 8.35 million people or around 2% of the total U.S. population. They are represented in biggest numbers, and experiencing significant growth, in large metropolitan areas in cities like Los Angeles, New York and San Francisco.

Country Origins
Based on 2017 estimations, Chinese Americans are the most populous Asian population group in United States who also experienced greatest growth in terms of new immigration. Contrary to this, U.S. population of Japanese descent was mostly born in the United States and immigrated in the 19th century.

Population Growth
Expressed as percent change between the years 2010 and 2016, it varied for different population groups of East Asian origin across the United States. Increases were most evident for counties where people of Chinese ethnic origin reside followed by those counties with people of Korean heritage. Americans of Japanese descent experienced either predominantly neutral population growth or decreases.
The Cartography and Geographic Information Society

Arthur Robinson Award
Honorable Mention

46th Annual CaGIS Map Design Competition

Where the War Rages

Joseph App

University of Wisconsin - Madison
WHERE THE WAR RAGES

Seventeen years after the US-led invasion of Afghanistan the country remains fractured. 30 to 40 members of the Afghan security forces are killed daily, and the Taliban controls or contests nearly 70% of the country. Pockets of peace exist yet thousands are subject to the frequent reminders of the war between the Taliban and Government of the Islamic Republic of Afghanistan. Each dot represents a conflict event regardless of initiator based on data from the Uppsala Conflict Data Program 2017.

A “Contested” district may mean that the government may be in control of the district center, but little else, and the Taliban controls large areas or all of the areas outside of the district center. A “Controlled” district may mean the Taliban is openly administering a district, providing services and security, and also running the local courts. - Long War Journal
Arthur Robinson Award
Honorable Mention

46th Annual CaGIS Map Design Competition

A Wisconsin Experience

Ellie Milligan

University of Wisconsin - Madison