2017 CaGIS Map Design Competition

Judges: Tom Patterson, Tanya Allison, Jacqueline Nolan, Dan McDermott, Dan Cole

Student

Arthur Robinson Print Map Award

Winner

Europe on Fire: Viking Raids of the 9th Century (802-891 CE)
Emily Pettit, University of Wisconsin-Madison

Honorable Mentions

This Land is Our Land: The Reduction of Your Public Lands
Anna Ormiston, University of Wisconsin-Madison

December 7, 1941, a Date Which Will Live In Infamy
Carol Burbage, Montgomery College

Major Watersheds of Africa
David Huwe, University of Wisconsin-Madison

Proximity of NHL Teams to AHL Affiliates
Jon Freel, Montgomery College

Land-Use Attributes within 1000m of NO2 Monitoring Sites: Ile-de-France, France
Karl Chastko, University of Toronto

Internet Access in 2017
Nattapon Jaroenchai, University of Illinois at Urbana-Champaign
Mass Extinction: The Rapid Decline of Species Worldwide
Rebecca Schmidt, University of Wisconsin-Madison

Transportation in New York City, Private vs. Public
Nick Exley, University of Wisconsin-Madison

From Preps to Pros: UW Football Players’ Career Paths
Nick Exley, University of Wisconsin-Madison

Between Bushes and Bathrooms: Sanitation in Archaic Greek Households
Yusi Liu, University of Wisconsin-Madison

World Statistical Mapping featuring Multiple Sclerosis Data
Jillian Ejdrygiewicz, Center of Geographic Sciences, NSCC

David Woodward Digital Map Award
Winner
Concrete Jungle: Urban Expansion and the Rise of the Megacity,
A Digital Web Mapping Application
https://mcmaster.maps.arcgis.com/apps/MapJournal/index.html?appid=850a80117ad546f39959a21d1fcca95
Spencer Elford, McMaster University and University of Toronto – Mississauga

Honorable Mentions
A Short History of Multiple Sclerosis
Jillian Ejdrygiewicz, Center of Geographic Sciences, NSCC

Human Trafficking at Home

https://rossthorn.github.io/human-trafficking-viz/

Ross Thorn, University of Wisconsin- Madison

Road to Russia 2018 World Cup

Nurlan Khamzin, University of Illinois at Urbana-Champaign

https://khamzin91.wixsite.com/2018fifarussia and
https://khamzin91.wixsite.com/2018fifarussia/map

A Journey Through Mary Shelley’s *Frankenstein*, Part One

Johnny Eaton, Center of Geographic Sciences, NSCC

Professional

_Recreation and Travel_

Winner

Continental Divide Trail

Rachael Carpenter and Christopher Knoll, National Geographic Maps

Honorable Mentions

A Paddler’s Guide to the Schuylkill River Water Trail

Brian Swisher, The Swisher Studio

Ouachita Trail, Central

Kristian R. Underwood, Underwood Geographics
Athens Ohio Bicycle Maps
John Lefelhocz, Cycle Path Bicycles of Athens, Ohio

Reference

Winner
None

Honorable Mentions

Shifting Sands
Damien Saunder, Daisy Chung, Irene Berman-Vaporis, Ed Merritt
National Geographic Magazine

Managing the Moors
Lauren E. James, National Geographic Magazine

Protecting Baja Seas
Matthew W. Chwastyk, National Geographic Magazine

The Night Sky
Heather Smith, ESRI

Vice President’s World Map
Nicholas P. Rosenbach, National Geospatial-Intelligence Agency

Thematic

Winner (tie)
Coming Home to Indigenous Place Names in Canada
Margaret Wickens Pearce, Canadian-American Center, University of Maine

The Melting of Antarctica
Lauren C. Tierney, Jason Treat, Stephen Tyson, National Geographic Magazine

**Honorable Mentions**

Lifeline to a Desert Delta
Lauren E. James, Matthew W. Chwastyk, Ryan Williams, National Geographic Magazine

Lights On Lights Out
John Nelson, ESRI

**Book/Atlas**

**Winner (tie)**

Debbie Gibbons et al, National Geographic

Mike McNey, Scott A. Zillmer, National Geographic

**Honorable Mentions**

Ecological Atlas of the Bering, Chukchi, and Beaufort Seas
Daniel P. Huffman et al, somethingaboutmaps; Audubon Alaska, Oceana

Climatological Atlas of Tropical Cyclones over the Western North Pacific (1981-2010)
Xiaotu Lei et al, Shanghai Typhoon Institute, China Meteorological Administration Institute of Cartography, East China Normal University
Other

Winner (posthumous)
A New Companion to Mercator
Waldo Tobler, UC Santa Barbara

Honorable Mention
Noteworthy Islands of the Great Lakes System
Daniel P. Huffman, somethingaboutmaps

Interactive/Digital

Winner
Justice Deferred
Allen Carroll et al, ESRI Story Maps Team

Honorable Mentions
Enclaves & Exclaves: A Tour of the World’s Geographically Engulfed and Orphaned Places
John Nelson, Allen Carroll, ESRI Story Maps Team

On the Front Lines of Famine
Allen Carroll et al, ESRI Story Maps Team

Best of Show
Debbie Gibbons et al, National Geographic
The Cartography and Geographic Information Society

Best of Show

45th Annual CaGIS Map Design Competition

**Visual Atlas of the World, 2nd ed.**
Debbie Gibbons, Michael Tribble, Jerome Cookson, Theodore Sickley, Irene Berman-Vaporis, Matthew Chwastyk, Mike McNey, Charles Preppernau, Damien Saunder, Lauren Tierney, Rosemary Wardley, Ryan Williams, Greg Ugiansky, Scott Zillmer

*National Geographic*
Concrete Jungle: Urban Expansion and the Rise of the Megacity, A Digital Web Mapping Application

Spencer Elford
University of Toronto - Mississauga
David Woodward Award
Honorable Mention

45th Annual CaGIS Map Design Competition

A Short History of Multiple Sclerosis

Jillian Ejdrygiewicz
Center of Geographic Sciences, NSCC
Human Trafficking at Home

Alicia Iverson, Leanne Abraham, Ross Thorn

University of Wisconsin - Madison
David Woodward Award
Honorable Mention

45th Annual CaGIS Map Design Competition

Road to Russia: 2018 World Cup

Nurlan Khamzin

University of Illinois at Urbana-Champaign
https://khamzin91.wixsite.com/2018fifarussia and
https://khamzin91.wixsite.com/2018fifarussia/map
The Cartography and Geographic Information Society

David Woodward Award
Honorable Mention

45th Annual CaGIS Map Design Competition

A Journey Through
Mary Shelley’s Frankenstein, Part One

Johnny Eaton

Center of Geographic Sciences, NSCC
The Cartography and Geographic Information Society

Arthur Robinson Award
Best Print Map

45th Annual CaGIS Map Design Competition

Europe on Fire:
Viking Raids of the 9th Century (802-891 CE)

Emily Pettit

University of Wisconsin - Madison
Europe on Fire
Viking Raids of the 9th Century (802-891 CE)

During the first one hundred years of the Viking Age, Scandinavian Vikings from modern-day Norway, Sweden, and Denmark raided throughout Europe, northern Africa, and western Asia. The Vikings took advantage of their trading skills and battle prowess to establish trade connections and create settlements that became foundations for many modern cities.
The Cartography and Geographic Information Society

Arthur Robinson Award
Honorable Mention

45th Annual CaGIS Map Design Competition

This Land is Our Land:
The Reduction of Your Public Lands

Anna Ormiston

University of Wisconsin - Madison
This Land Is Our Land: The Reduction Of Your Public Lands

President Trump has reduced 2 NATIONAL MONUMENTS in Utah.

GRAND STAIRCASE-ESCALANTE NM will be reduced to half its size.

85% of BEARS EARS NM will be reduced.

BEARS EARS has over 100,000 archaeological sites.

Only 10% of BEARS EARS has been surveyed.

Archaeological sites include OHIO false legs, petroglyphs, and pictographs. Increase in Bears Ears National Monument was meant to ensure the dignity of culturally significant sites. The new reduced Bear Ears boundary site list shows the lack of protection for these irreplaceable sites. Oil, gas, and mineral deposits were reimagined to depict possible indicators for reducing our public lands.
The Cartography and Geographic Information Society

Arthur Robinson Award
Honorable Mention

45th Annual CaGIS Map Design Competition

December 7, 1941,
A Date Which Will Live In Infamy

Carol Burbage
Montgomery College
December 7, 1941
"- a date which will live in infamy -"

**A Eyewitness Account**


d:


December 7th, 1941, dawned a beautiful Sunday morning in Honolulu. Lieutenant Charles Biddle, a naval aviation officer, was on his way to the officers' club for breakfast. As he arrived at the club, he noticed that the city looked different. The sky was clear, and the sun was shining brightly.


The Japanese Admiral Yamamoto had planned the attack for 3:55 A.M., believing that it would be the ideal time for the surprise attack. The Japanese Imperial Navy, under the command of Admiral Isoroku Yamamoto, launched a surprise attack on Pearl Harbor, the U.S. naval base in Honolulu, Hawaii.

**Japanese Flight Paths**


The attack was carried out by a fleet of 353 aircraft, divided into 6 waves. The first wave consisted of 199 aircraft, including 187 bombers and 12 fighters, which attacked the Pearl Harbor area.


The second wave consisted of 80 aircraft, including 73 bombers and 7 fighters, which attacked the Daniel K. Inouye International Airport and the Ford Island Naval Air Station.


The third wave consisted of 74 aircraft, including 69 bombers and 5 fighters, which attacked the Pearl Harbor area and the Wahiawa Naval Air Station.


The fourth wave consisted of 60 aircraft, including 54 bombers and 6 fighters, which attacked the Pearl Harbor area and the Ford Island Naval Air Station.


The fifth wave consisted of 44 aircraft, including 40 bombers and 4 fighters, which attacked the Pearl Harbor area and the Wahiawa Naval Air Station.


The sixth wave consisted of 26 aircraft, including 22 bombers and 4 fighters, which attacked the Pearl Harbor area and the Wahiawa Naval Air Station.

**Pearl Harbor Aftermath**


The attack resulted in the destruction of 8 battleships, 3 cruisers, 3 destroyers, and 248 aircraft. The U.S. Navy sustained heavy losses, with 1,177 U.S. military personnel killed and 684 wounded.


The attack on Pearl Harbor marked the beginning of the United States' involvement in World War II. The United States entered the war on December 8, 1941, after the Japanese attack on Pearl Harbor, which triggered the United States' entry into the war.


The United States' entry into the war marked the beginning of the United States' involvement in World War II. The attack on Pearl Harbor marked the beginning of the United States' involvement in World War II. The United States entered the war on December 8, 1941, after the Japanese attack on Pearl Harbor, which triggered the United States' entry into the war.


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The Cartography and Geographic Information Society

Arthur Robinson Award
Honorable Mention

45th Annual CaGIS Map Design Competition

Proximity of NHL Teams to AHL Affiliates

Jon Freel
Montgomery College
Proximity of NHL Teams to AHL Affiliates

At the start of the 2015-16 season, the AHL moved five of its teams to California. These moves were two years after the NHL realigned its conferences. All five of these teams are affiliated with NHL teams now in the Pacific Division. The majority of their games are now played on the west coast, bringing their affiliations to the west coast makes roster changes between teams much easier. The five California AHL teams moved a combined 12,912 miles from their homes during the previous season.

Photo 1: The Lake Erie Monsters won the 2016 Calder Cup, awarded to the AHL’s annual champion. This team featured current NHL players Sonny Milano and Zach Werenski.

Photo 2: Goaltender Braden Holtby, during his time with the Hershey Bears before getting the call up to the Washington Capitals and eventually winning the Stanley Cup. Holtby returned during the previous season as the NHL’s best goaltender.

The Knights are not a part of the legend or graph because they are new to the NHL as of October 2017. They do not have enough minor league players to make their own AHL affiliate so they share a team with the Blackhawk.
The Cartography and Geographic Information Society

Arthur Robinson Award
Honorable Mention

45th Annual CaGIS Map Design Competition

Land-Use Attributes
within 1000m of NO₂ Monitoring Sites:
Ile-de-France, France

Karl Chastko
University of Toronto
Land-Use Attributes Within 1000m of NO₂ Monitoring Sites: Île-de-France, France

The total length of major roads, minor roads and railways, as well as the cumulative area of each land use type, within each buffered distance of the nitrogen dioxide monitors, are used as input variables in a land use regression model. Land use regression models are used to predict air pollution values at unmonitored locations. This allows for a clearer understanding of the spatial distribution of air pollution within a city.
The Cartography and Geographic Information Society

Arthur Robinson Award
Honorable Mention

45th Annual CaGIS Map Design Competition

Internet Access in 2017

Nattapon Jaroenchai
University of Illinois at Urbana-Champaign
Mass Extinction: 
The Rapid Decline of Species Worldwide 

Rebecca Schmidt 

University of Wisconsin - Madison
Mass Extinction: The Rapid Decline of Species Worldwide

Earth is currently experiencing its sixth mass extinction of plants and animals. While extinction is a natural phenomenon, it occurs at a natural “background” rate of approximately 1 to 5 species per year. However, species are now being lost at 1,000 to 10,000 times the background rate. As many as 50% to 50% of all species could be extinct by 2050. Unlike past mass extinctions caused by events like asteroid strikes, volcanic eruptions, and natural climate shifts, the current crisis is almost entirely caused by humans. In fact, 99% of currently threatened species are at risk from human activities, primarily those driving habitat loss, degradation, and fragmentation, the introduction of non-native species, and anthropogenic climate change (IUCN).

A Closer Look...

- **Orange-bellied Parrot**: only 20-25 remain; threatened due to urban and industrial development, agriculture, and grazing.
- **Dama Gazelle**: only 100-200 remain; threatened due to overhunting by humans, overgrazing by livestock, and grassland degradation from droughts.
- **Black-headed Spider Monkey**: unknown number remain because it is rare and difficult to see; threatened due to deforestation and strong hunting pressure.

*Adapted from the International Union for Conservation of Nature (IUCN) Red List, 2017.*

Extinct means no known individuals of a species remain.

Critically endangered means a species is at extremely high risk of extinction in the wild.

Threatened is a term used to describe three categories: critically endangered, endangered, and vulnerable species.

[Bar chart showing taxa as percent of threatened species by region]

*Data and analysis from Natural Earth by Rebecca Schulte, Dec. 2017.*
Arthur Robinson Award
Honorable Mention

45th Annual CaGIS Map Design Competition

Transportation in New York City,
Private vs. Public

Nick Exley

University of Wisconsin - Madison
Transportation in New York City
Private vs. Public

According to Redfin, a next-generation real estate brokerage company, New York City was voted top in the U.S. for public transit. It received the highest Transit Score Rating out of 350 U.S. cities scored.

% of Households with a Car

- 16% - 25%
- 25% - 40%
- 40% - 60%
- 60% - 80%
- 80% - 94%

The community districts here that make up the tip of the Manhattan borough have a low percentage of car ownership which could imply a heavy reliance on public transportation.

# of Stations

- 0 - 3
- 4 - 7
- 8 - 12
- 13 - 19
- 20 - 35

The implied relationship between car ownership and use of public transportation in the lower Manhattan community districts is supported by the increased number of public transit stations found here.

In a Global Traffic Scorecard produced earlier this year by INRIX, a global leader in transportation analytics, New York came in 2nd among major U.S. cities in overall traffic congestion, based on hours spent in congestion and percentage of drive spent in traffic congestion.

Sources:
New York City Department of City Planning
U.S. Department of Homeland Security
New York City Economic Development Corporation
https://www.redfin.com/

Nick Easley, Section 104
Lambert Equal Area Conic
Central Meridian: -74
Standard Parallels: 40N, 41N
Arthur Robinson Award
Honorable Mention

45th Annual CaGIS Map Design Competition

From Preps to Pros:
UW Football Players’ Career Paths

Nick Exley
University of Wisconsin - Madison
FROM PREPS TO PROS:
UW FOOTBALL PLAYERS' CAREER PATHS

In the modern history of the National Football League, a number of former Wisconsin Badgers have found success as professional football players. This map depicts the flow of former Wisconsin players who have been drafted to the NFL in the first 3 rounds from the first ever NFL draft in 1936 to the present day. It shows the different states that these players played their high school careers as well as the NFL teams that drafted them.

The Wisconsin Badgers are well known for recruiting locally and developing their players rather than recruiting highly rated prospects from other states. This is evident in that 19 of the 120 players drafted from UW played their high school football in Wisconsin.

<table>
<thead>
<tr>
<th># of UW Commits</th>
<th># of UW Players per NFL Team</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 2</td>
<td>Offensive Player</td>
</tr>
<tr>
<td>3 - 5</td>
<td>Defensive Player</td>
</tr>
<tr>
<td>6 - 9</td>
<td></td>
</tr>
<tr>
<td>10 - 13</td>
<td></td>
</tr>
</tbody>
</table>

Notable Badgers in the NFL:

<table>
<thead>
<tr>
<th>Name</th>
<th>Pro Bowl</th>
<th>Super Bowl or NFL Champ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eric Dorsey</td>
<td>3x</td>
<td>1x</td>
</tr>
<tr>
<td>Al Armieche</td>
<td>4x</td>
<td>2x</td>
</tr>
<tr>
<td>Al Toon</td>
<td>3x</td>
<td>2x</td>
</tr>
<tr>
<td>Tony Knott</td>
<td>3x</td>
<td>2x</td>
</tr>
<tr>
<td>Joe Thomas</td>
<td>10x</td>
<td>7x</td>
</tr>
<tr>
<td>Al Motir</td>
<td>4x</td>
<td>2x</td>
</tr>
<tr>
<td>Bill Frey</td>
<td>3x</td>
<td>2x</td>
</tr>
<tr>
<td>Bill Gregory</td>
<td>1x</td>
<td>1x</td>
</tr>
<tr>
<td>Russell Wilson</td>
<td>3x</td>
<td>1x</td>
</tr>
<tr>
<td>Owen Daniel</td>
<td>3x</td>
<td>1x</td>
</tr>
<tr>
<td>James White</td>
<td>8x</td>
<td>2x</td>
</tr>
<tr>
<td>Mike Webster</td>
<td>3x</td>
<td>4x</td>
</tr>
</tbody>
</table>

Note: The only NFL team that has never drafted a Wisconsin player is the Kansas City Chiefs.
Between Bushes and Bathrooms:
Sanitation in Ancient Greek Households

Yusi Liu

University of Wisconsin - Madison
BETWEEN BUSHES AND BATHROOMS
SANITATION IN ARCHAIC GREEK HOUSEHOLDS

ARISTOPHANES, PEACE, 1265-9
TITANOS
νη τον Ἀί, ως τι πολύ, μίαν ξύλινην
Φυλάνθροπον
ς πλασμοντας των ἐφύρων δειον
νοον
δει νοον προκαλημένον μια δοκιμή
μονήν. Δείτε την κορυφήν φύλανθροπον
μιαν πολλὰς πόρτες παραμένειν οικισμόν καθάρων.

TRYGABUS
Αδιν' εκείνη της δαιμονία, οἱ δαμασκενοὶ μην ἐν μέτοχοιν τοις ἐνθαρρυνμένοιν ἑαυτῆς.

ARISTOPHANES, WASPS, 805-9
BARATHEON
Ἡ σιδηρενία δεδομένη τῷ Θεῷ, καθὼς ἡ λέξις ἑώρακεν
ἐπεξεργάζοντας κάτι μεταφοράς, τοῦτο μὲν ἐν ὀφθαλμών ἐπεξεργάζοντας, τοῦτο στόχον κεραυνόν ἐπονομάζοντας ἐν τῷ παρακείμενῳ.

BIDICYCLEON
There, what do you think of that? I have brought you everything useful and much more into the bargain. See, here is a thunder-stick in case you have to poke. I shall hang it up beside you.

SINGLE-LINED PIT IN COURTYARD ATTICIAN AGORA

DEVELOPMENT PHASE

- INTO THE BUSHES
- RESTRICT YOURSELVES
- PORTABLE VESSELS
- KOPRON
- WATER PIPES

☐ LITERARY EVIDENCE
☐ VISUAL EVIDENCE (VASE PAINTING)
☐ ARCHAEOLOGICAL EVIDENCE

* KOPRON: GARBAGE DUMP
45th Annual CaGIS Map Design Competition

World Statistical Mapping
Featuring Multiple Sclerosis Data

Jillian Ejdrygiewicz
Center of Geographic Sciences, NSCC
The Cartography and Geographic Information Society

Best Map
Other Category

45th Annual CaGIS Map Design Competition

A New Companion to Mercator

Waldo Tobler
University of California – Santa Barbara
The new projection centered on Greenwich
Noteworthy Islands of the Great Lakes System

Daniel P. Huffman
Somethingaboutmaps.com
The Cartography and Geographic Information Society

Best Thematic Map (Tie)

45th Annual CaGIS Map Design Competition

Coming Home to Indigenous Places Names in Canada

Margaret Wickens Pearce

*Canadian-American Center, University of Maine*
Best Thematic Map
(Tie)

45th Annual CaGIS Map Design Competition

The Melting of Antarctica

Lauren C. Tierney, Jason Treat, Stephen Tyson
National Geographic Magazine
Lifeline to a Desert Delta

Lauren E. James, Matthew W. Chwastyk, Ryan Williams
National Geographic Magazine
**Lifeline to a Desert Delta**

The waters of the Okavango River flow from Angola’s highlands through the Kalahari Desert of Namibia and into the vast floodplains of the Okavango Delta, providing sustenance to unique ecosystems and abundant species of wildlife. The river’s journey is a testament to the resilience and beauty of nature, as it navigates its way through the vast terrain, offering a vital lifeline to the region. The delta serves as a crucial habitat for various species, including elephants, hippos, and a multitude of bird species, making it a haven for biodiversity.

**A Vulnerable Wetland**

With the Okavango Delta threatened by rising temperatures, it's crucial to monitor and protect the area. Strategies such as reducing water usage, promoting biodiversity, and implementing sustainable practices can help maintain the health of the delta. The region needs continued efforts to ensure its sustainability and the well-being of the species that call it home.

**Diverse Habitats**

The Okavango Delta is known for its diverse ecosystems, including floodplains, swamps, and lakes. These habitats support a wide range of plant and animal species, making it a valuable region for ecological research and conservation.

**Dynamic Water System**

The Okavango Delta's water system is a marvel of nature, with water passing through a network of channels and tributaries, creating a complex and interconnected system. The river flows from Angola through Namibia and into Botswana, where it eventually joins the Chobe River, creating a significant contribution to the water resources in the region.

**Expedition Routes**

From the source at Tsenekane in Angola to the delta in Botswana, the Okavango River traverses a vast landscape. The river is a vital route for exploration and discovery, offering opportunities for adventure and scientific study. The expedition routes highlight the river’s role in connecting different regions and communities, fostering cultural exchange and ecological understanding.

**Nakwa Landscape**

The Okavango Delta’s landscape is characterized by a mosaic of wetlands, savannas, and woodlands, creating a unique and diverse ecosystem. The landscape’s diversity supports a rich variety of flora and fauna, making it a hotspot for biodiversity and a testament to the resilience of nature.

**Dependent Delta**

The Okavango River is a vital water source for the people and wildlife that depend on it. The river’s health and sustainability are crucial for the well-being of the region, as it plays a pivotal role in supporting the local communities and ecosystems.

**Lifeline to a Desert Delta**

The Okavango River is a lifeline to the desert delta, providing a crucial source of water and sustenance for the region's unique biodiversity. As we continue to explore and understand the river’s dynamics, we are reminded of our interconnectedness with nature and the importance of preserving such vital ecosystems for future generations.
The Cartography and Geographic Information Society

45th Annual CaGIS Map Design Competition

Thematic Map
Honorable Mention

Lights On Lights Out

John Nelson

ESRI
Best Atlas (Tie)

45th Annual CaGIS Map Design Competition

Debbie Gibbons, Michael Tribble, Jerome Cookson, Theodore Sickley, Irene Berman-Vaporis, Matthew Chwastyk, Mike McNey, Charles Preppernau, Damien Saunder, Lauren Tierney, Rosemary Wardley, Ryan Williams, Greg Ugiansky, Scott Zillmer

National Geographic
Best Atlas
(Tie)

45th Annual CaGIS Map Design Competition

Atlas of Beer:
A Globe Trotting Journey through the World of Beer

Mike McNey and Scott A. Zillmer

National Geographic
Atlas
Honorable Mention

45th Annual CaGIS Map Design Competition

Ecological Atlas of the Bering, Chukchi, and Beaufort Seas

Daniel P. Huffman, Melanie Smith, Max Goldman, Erika Knight, and Jon Warrenchuk
Audubon Alaska, Oceana, somethingaboutmaps.com
ECOLOGICAL ATLAS OF THE BERING, CHUKCHI, AND BEAUFORT SEAS
The Cartography and Geographic Information Society

Atlas
Honorable Mention

45th Annual CaGIS Map Design Competition

Climatological Atlas of Tropical Cyclones over the Western North Pacific (1981-2010)

Xiaotu Lei, Ming Ying, Hui Yu, Xiaoqin Lu, Xi Tang, Bingke Zhao, and Jianfeng Gu
Shanghai Typhoon Institute, China Meteorological Administration
A Paddler’s Guide to the Schuylkill River Water Trail

Brian Swisher

The Swisher Studios
Schuylkill River Water Trail

Discover the Hidden River!
Recreation or Travel Map
Honorable Mention

45th Annual CaGIS Map Design Competition

Ouachita Trail, Central

Kristian R. Underwood

Underwood Geographics
Recreation or Travel Map
Honorable Mention

45th Annual CaGIS Map Design Competition

Athens Ohio Bicycle Maps
John Lefelhocz
Cycle Path Bicycles of Athens, Ohio
The Cartography and Geographic Information Society

45th Annual CaGIS Map Design Competition

Best Reference Map

No winners
The Cartography and Geographic Information Society

Reference Map Honorable Mention

45th Annual CaGIS Map Design Competition

Shifting Sands

Damien Saunder, Daisy Chung, Irene Berman-Vaporis, Ed Merritt
National Geographic Magazine
Shifting Sands

In a single generation, Dubai exploded from a humble settlement with modest oil reserves to a sprawling, car-centric metropolis fueled by tourism, real estate, and aviation—it has the world's third busiest airport and is building another. For a time, it pursued a sustainable future, it's investing in solar energy, green building, and mass transit.
Managing the Moors

Half of what is now Scotland was forest when humans settled there 10,000 years ago. After centuries of farming, grazing, and deforestation, about 40 percent is now moorland: the “wet” moors of carbon-absorbing bogs and “dry” moors of purple-blooming heather.

WINDSWEEPED MOORS
The windy moors are key to a plan for renewables to provide 50 percent of the country’s energy by 2030.

PRIVATE PROPERTY
Most of the moors are not protected lands. Half of all privately held rural acreage lies in the hands of 432 owners – 0.006 percent of the population.

FOREST VS. MOOR
A proposal to refer a bill about one-fifth of Scotland, which would absorb greenhouse gases and help the lumber industry, is intensifying debate over the future of the moors.
The Cartography and Geographic Information Society

Reference Map
Honorable Mention

45th Annual CaGIS Map Design Competition

Protecting Baja Seas

Matthew W. Chwastyk

National Geographic Magazine
Protecting Baja Seas

Ocean conservationists often call the Gulf of California the "aquarium of the world," but overfishing has threatened the remarkable diversity and quantity of its sea life. Now local communities, in partnership with nonprofits and the Mexican government, are working to protect what is left.

Protected Areas
- Isla Guadalupe Biosphere Reserve
- El Vizcalo Biosphere Reserve
- Archipiélago de Revillagigedo Biosphere Reserve
- Islands and Protected Areas of the Gulf of California (World Heritage site)

- Gray whale migration route
- Gray whale nursery
- Sea turtle nesting area

OCEAN CROSSROADS
Four remote volcanic islands at the junction of two oceans create a biologically rich ecosystem. This protected area abounds with hungry mantas, humpback whales, and sea turtles.

UNIQUE SPECIES
The islands of Baja California, long isolated, boast a huge number of endemic species. More than 245 vertebrates and hundreds of marino protected areas in the gulf now make up a single World Heritage site.
Reference Map
Honorable Mention

45th Annual CaGIS Map Design Competition

The Night Sky

Heather Smith
ESRI
45th Annual CaGIS Map Design Competition

The Vice-President’s World Map

Nicholas P. Rosenbach

National Geospatial-Intelligence Agency
Justice Deferred: Executive Order 9066 and the Geography of Japanese American imprisonment

Davis Asbury, Allen Carroll, Greyson Harris, Cooper Thomas

ESRI Story Maps Team
On the Front Lines of Famine

Allen Carroll, Greyson Harris, Cooper Thomas, Hannah Wilber

ESRI Story Maps Team
The Cartography and Geographic Information Society

Digital & Interactive Map
Honorable Mention

45th Annual CaGIS Map Design Competition

Enclaves and Exclaves: A Tour of the World’s Geographically Engulfed and Orphaned Places

John Nelson and Allen Carroll
ESRI Story Map Team