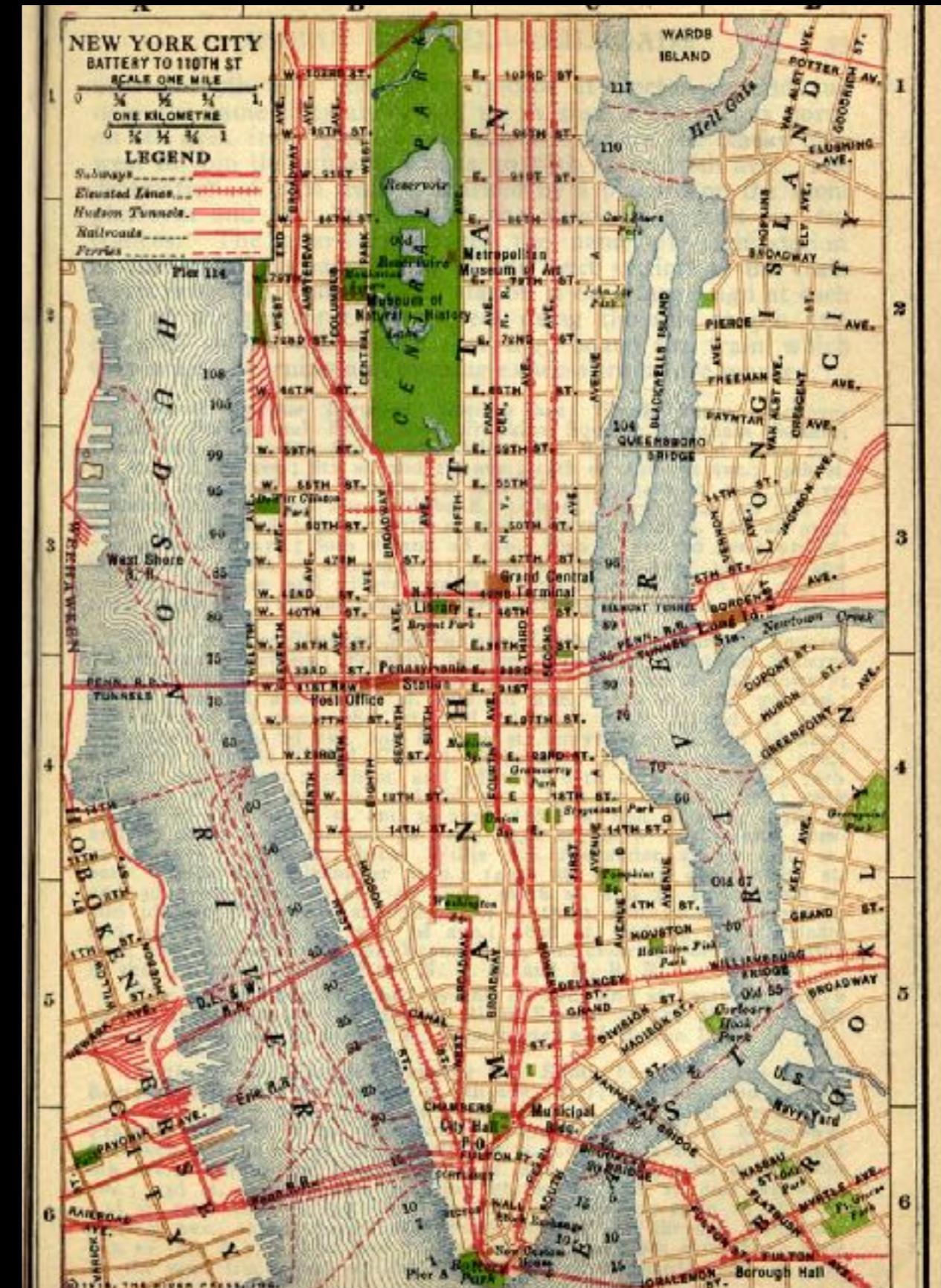


# Critical Cartography

Mapping for Architecture, Urbanism, and the Humanities

September 22, 2017

# Objectivity, accuracy, truthfulness (Harley pg 5)



# Cartography is:

**Public:**

“the art, science and technology of making maps.”

**Professionals:**

“the science and technology of analyzing and interpreting geographic relationships and communicating the results by means of maps.”



Blaeu's Atlas Maior 1662-1665



Illustration from *Andrómeda y Perseo*, ca. 1653, by Pedro Calderón de la Barca (1600-1681). [MS Typ 258, Houghton Library, Harvard University](#)



# Geographic Information Systems

&

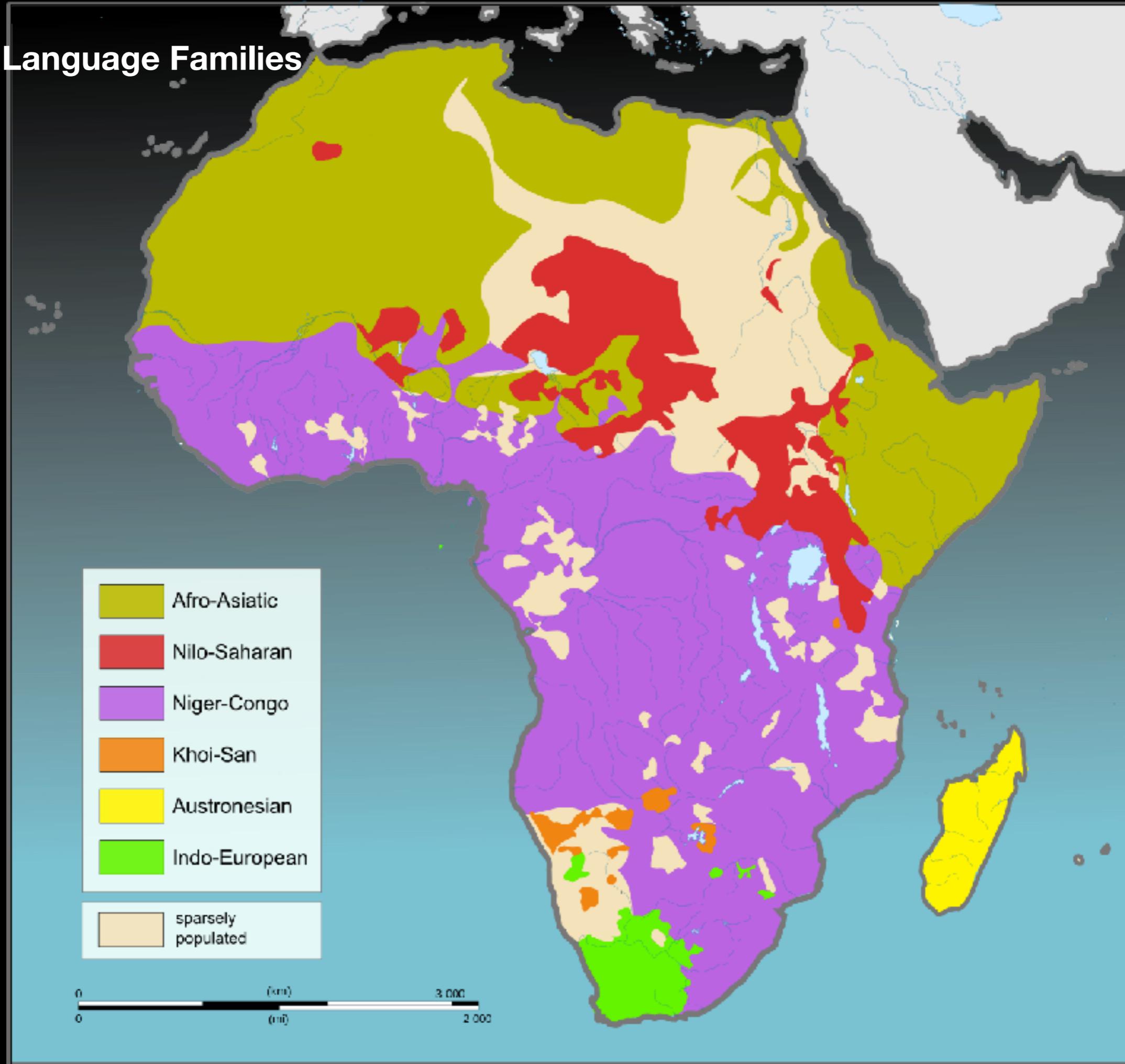
# Cartography



Harley pg 13



# African Language Families



# Propoganda

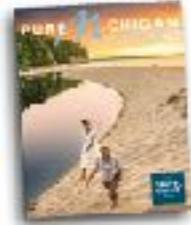
If the map is a specific set of power-knowledge claims, then not only the state, but others could make competing and equally powerful claims

*Crampton & Krygier, pg 12*



## FREE Travel Guide

Contact Travel Michigan at 1-800-232-7226  
or visit [www.visitmi.com](http://www.visitmi.com) or [www.visitontario.ca](http://www.visitontario.ca)



One Michigan. Infinite possibilities.  
Michigan's natural beauty is one of the state's greatest assets. From the Great Lakes to the Upper Peninsula, Michigan offers a variety of outdoor activities and experiences. From the state's many lakes and rivers to its forests and mountains, Michigan has something for everyone. Whether you're looking for a quiet place to relax or a place to explore, Michigan has it all. So why wait? Book your trip today and experience the magic of Michigan for yourself.

—  
Mike Angel, Governor

## PURE MICHIGAN®



MICHIGAN WELCOME CENTER  
The Michigan Welcome Center is located at the intersection of I-94 and M-10 in Southfield, Michigan. It is open 24 hours a day, 7 days a week. For more information, call 1-800-232-7226 or visit [www.visitmi.com](http://www.visitmi.com).

**MDOT**  
Michigan Department of Transportation  
[www.michigan.gov/mdot](http://www.michigan.gov/mdot)

## LIGHT UP MICHIGAN



60th Anniversary  
Mackinac Bridge  
Celebration Year 2017-2018

Check out our great new travel guide  
with lots of fun facts, maps, and more!  
Get yours online at [www.visitmi.com](http://www.visitmi.com) or  
call 1-800-232-7226.



ROAD WORK  
AHEAD

Michigan Department of Transportation  
Michigan's Department of Transportation  
is responsible for maintaining the state's  
highways and roads. The department  
also oversees the state's airports and  
seaports. Michigan's Department of  
Transportation is committed to providing  
safe, reliable, and efficient transportation  
services to the people of Michigan.



Michigan Department of Transportation  
Michigan's Department of Transportation  
is responsible for maintaining the state's  
highways and roads. The department  
also oversees the state's airports and  
seaports. Michigan's Department of  
Transportation is committed to providing  
safe, reliable, and efficient transportation  
services to the people of Michigan.

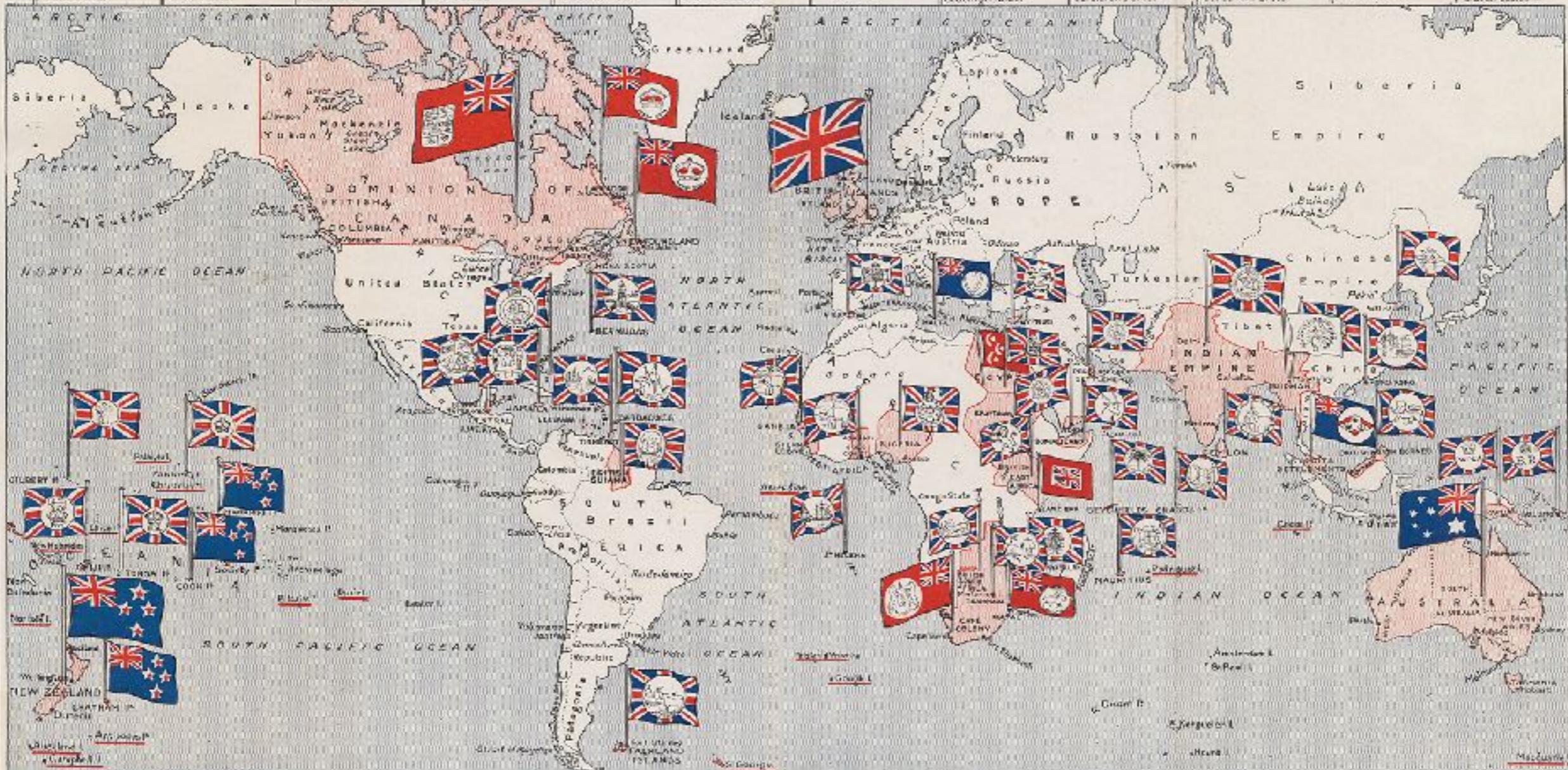


Michigan Department of Transportation  
Michigan's Department of Transportation  
is responsible for maintaining the state's  
highways and roads. The department  
also oversees the state's airports and  
seaports. Michigan's Department of  
Transportation is committed to providing  
safe, reliable, and efficient transportation  
services to the people of Michigan.

These are the emblems of the principal provinces which form the Dominion of Canada. Most of the colonies are included in the Dominion flag given on the map below.



These flags represent the Union Jack, the national flag of Britain.



These are the emblems of most of the West India colonies, which cannot be shown in their proper places on the map.

These are the emblems of the separate colonies forming the Commonwealth of Australia. They fly over a whole continent, stamped on the Union Jack.

## THE FLAGS OF A FREE EMPIRE, SHOWING THE EMBLEMS OF BRITISH POWER THROUGHOUT THE WORLD

This picture helps us to understand the wonderful way in which the British Empire is established throughout the world. But it helps us to realise something more. The flag that flies over the British Isles in the centre of the picture is the Union Jack, under which no slave can breathe; and it is a fine thing, of which we may be rightly proud, that the sun never sets upon the Union Jack. But the flags that wave over other parts of the empire have all another sign stamped on the Union Jack, which means generally that these places, though they are loyal to the British flag, have a nationality or government of their own. Great Britain has built up a

great empire, because, wherever her influence has gone, she has planted the seeds of freedom, and because, as soon as a British colony is able to govern itself, the power to govern is given to it. So that the separate flags mean that the places over which they fly are separate colonies, under the protection of the British flag. It is not possible to show all parts of the empire or all the flags in their proper places, and it should be carefully noted that the aerial empire, marked red, is represented on this map by the flag-staff and not by the flag itself. The flags have their staffs fixed into the places to which they belong, so that it is

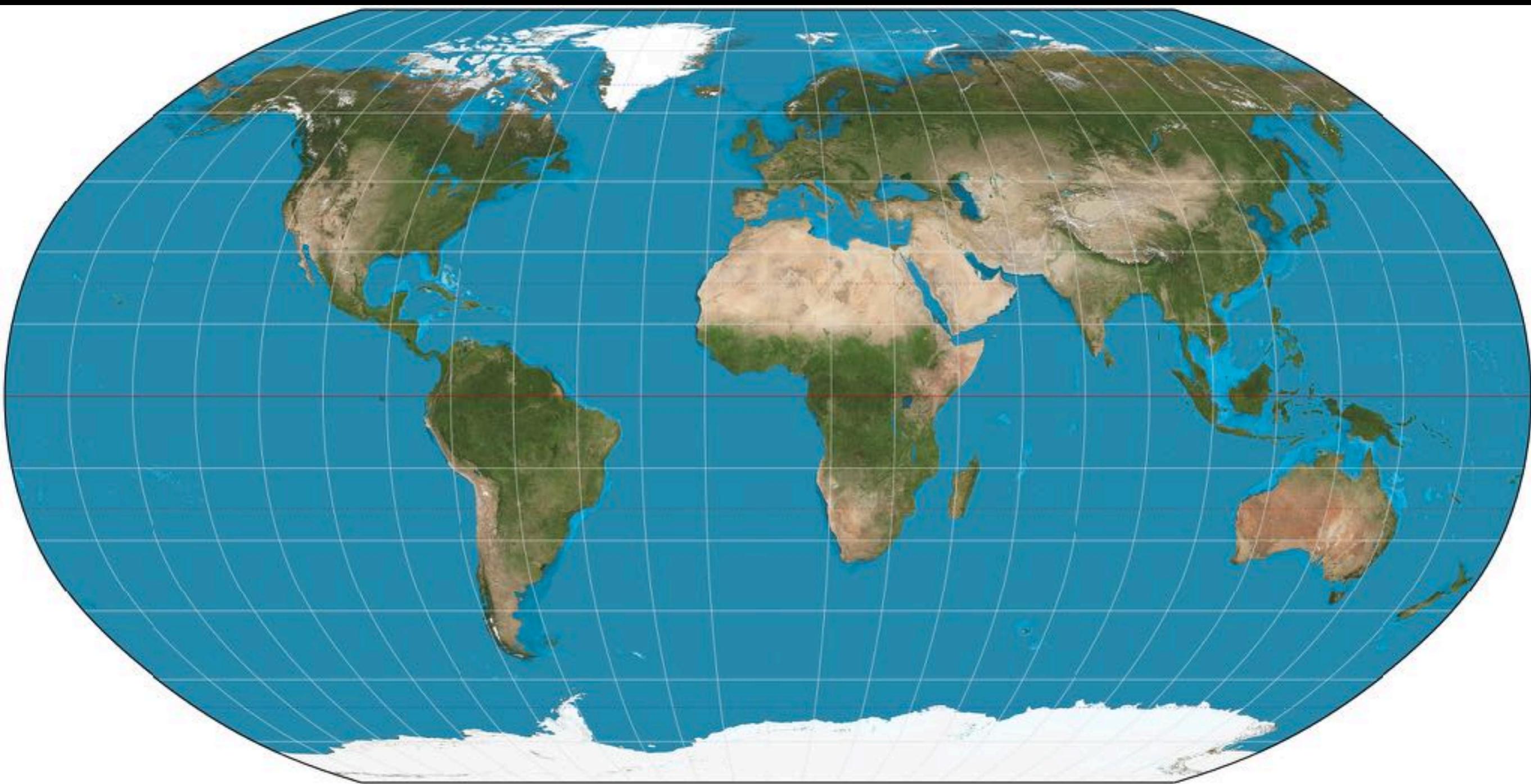
the place where the flag-staff is fixed that belongs to the British Empire. Many small places have flags that are not shown in this map, and in the cases of Canada and Australia only the federal flags are shown, the flags of the separate parts being along the bottom. In many other cases, also, where flags cannot be put in their proper position in such a small space as this, the flags are shown along the borders of the map. The colours of the emblems are not given here, and some of the emblems are shown much larger on the flag than they really are. Some of them are explained briefly in notes appearing on page 111.

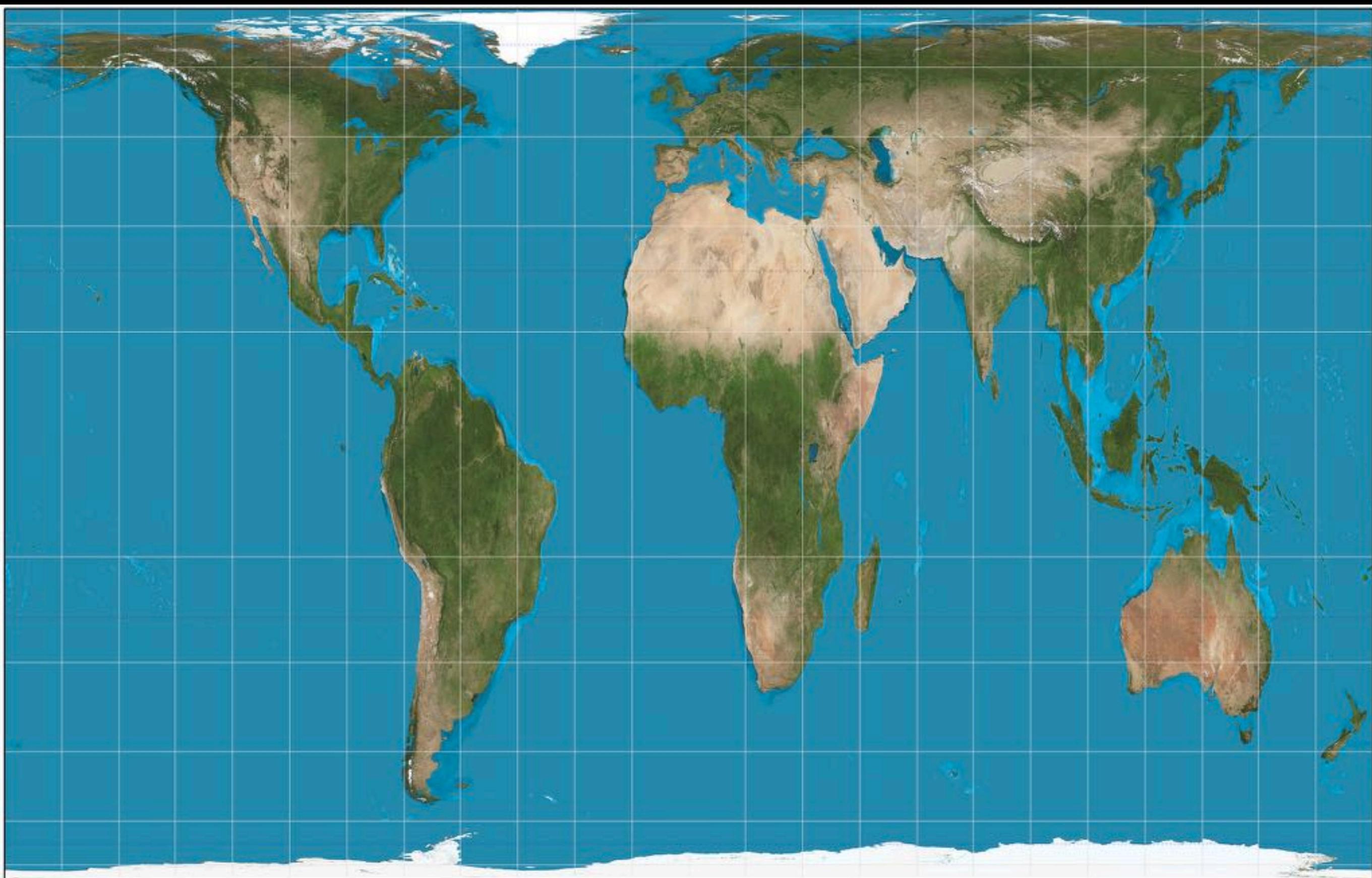
Space is subjective

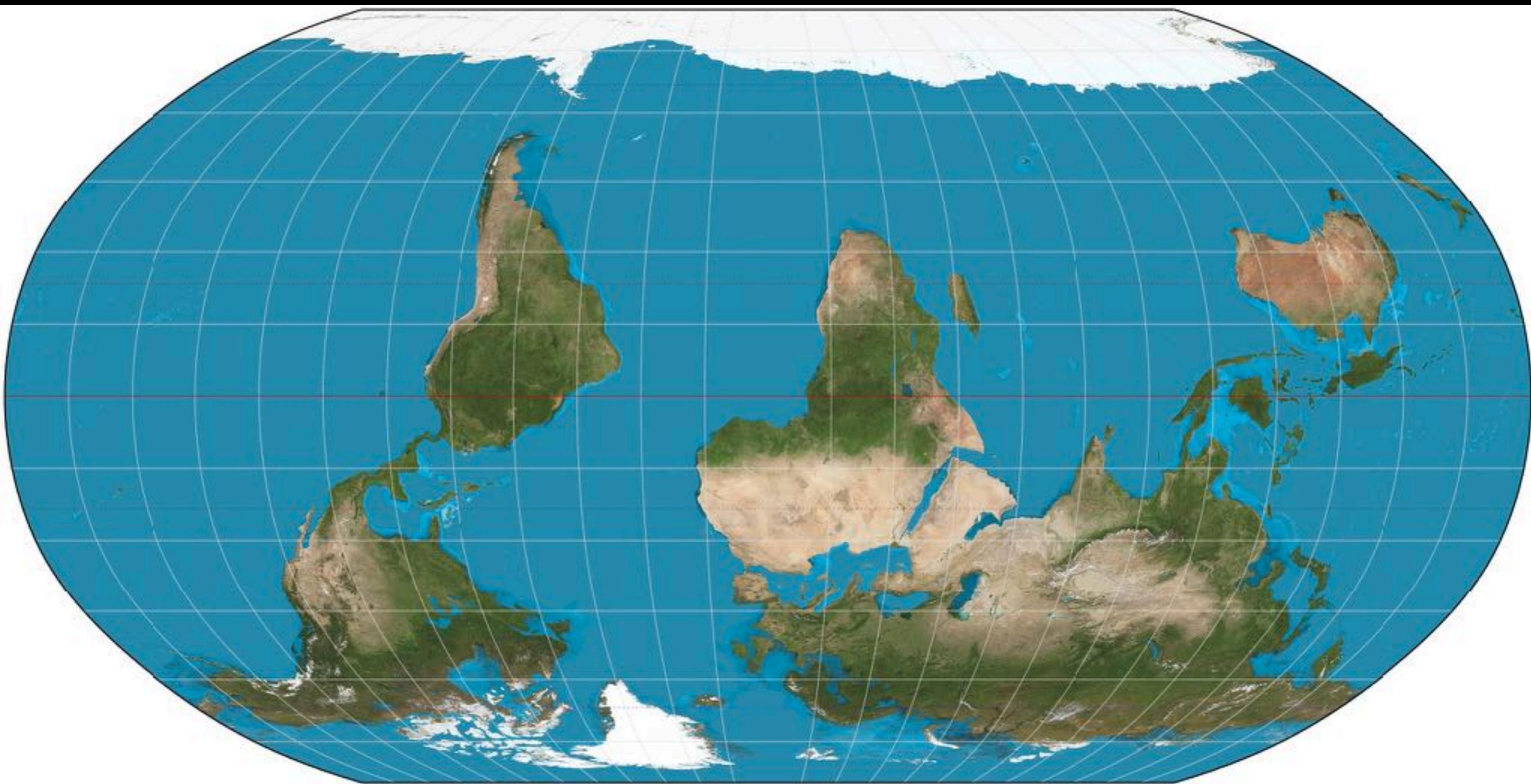
**Cartographic facts are only facts within a specific cultural perspective. We start to understand how maps, like are, far from being “a transparent opening to the world” are but “a particular human way... of looking at the world.”**

*Harley, pg 3*





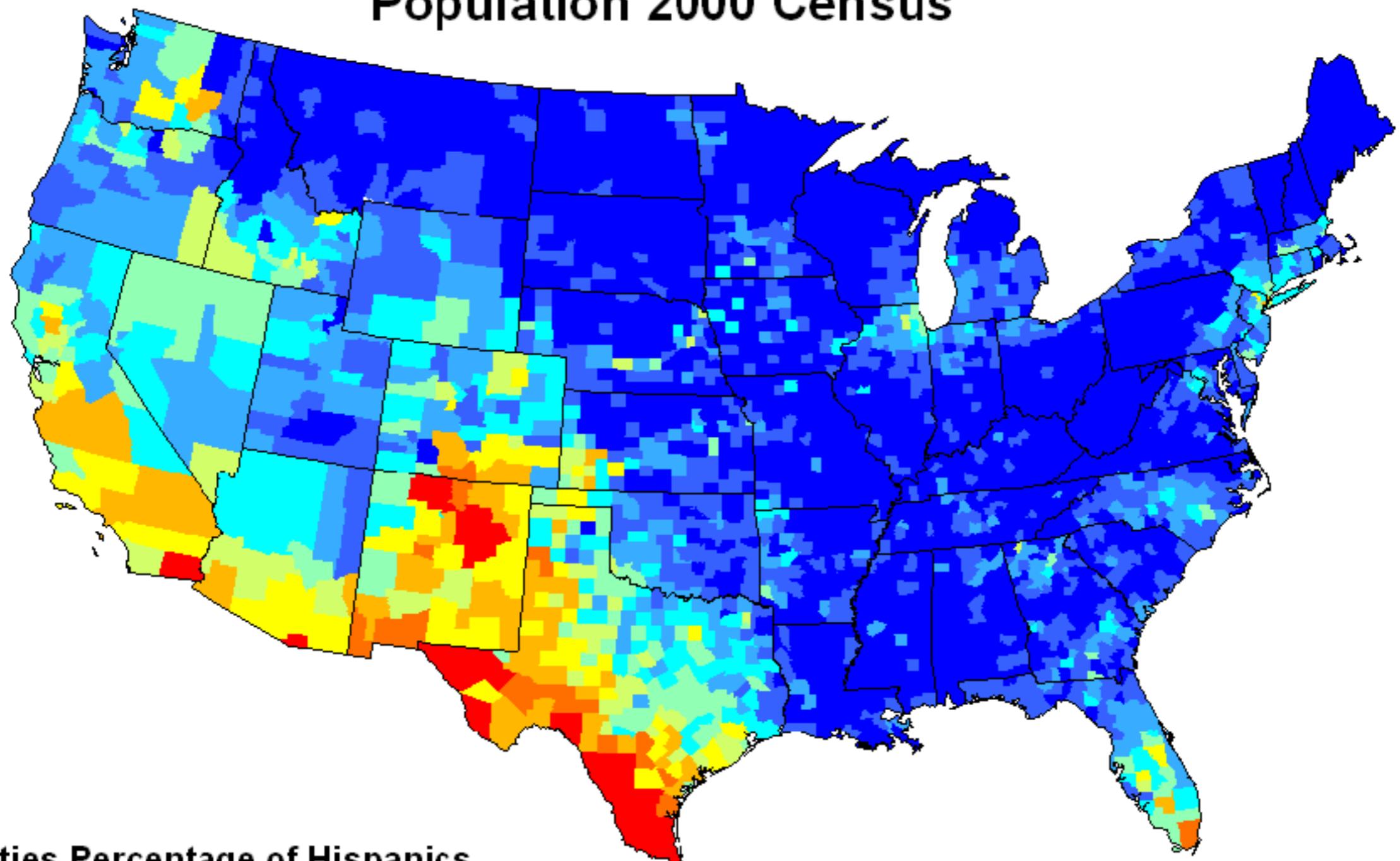




Statistics is  
subjective

# Project 1 Map 14

## Natural Breaks, Hispanics normalized by Population 2000 Census



### Legend

#### US Counties Percentage of Hispanics

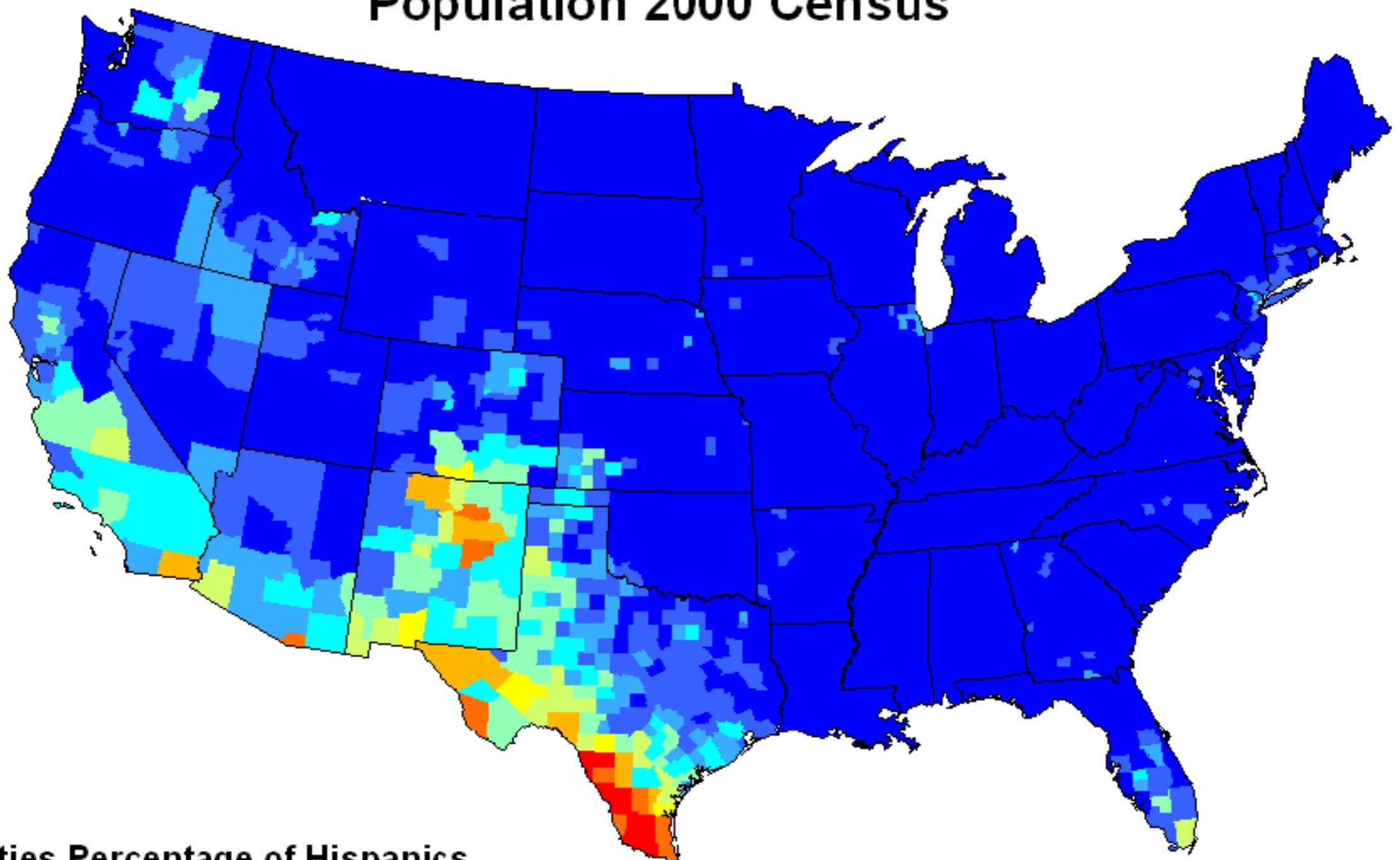
0% - 1.9%  
2% - 4.5%  
4.6% - 8.4%  
8.5% - 13.8%  
13.9% - 20.6%  
20.7% - 26.5%  
28.6% - 39%  
39.1% - 51.3%  
51.4% - 67.4%  
67.5% - 98.1%



0 250 500 1,000 Miles

# Project 1 Map 15

## Equal Interval, Hispanics normalized by Population 2000 Census



### Legend

#### US Counties Percentage of Hispanics

0% - 9.8%  
9.9% - 19.6%  
19.7% - 29.4%  
29.5% - 39.2%  
39.3% - 49.1%  
49.2% - 56.9%  
56.9% - 68.7%  
68.8% - 78.5%  
78.6% - 88.3%  
88.4% - 98.1%

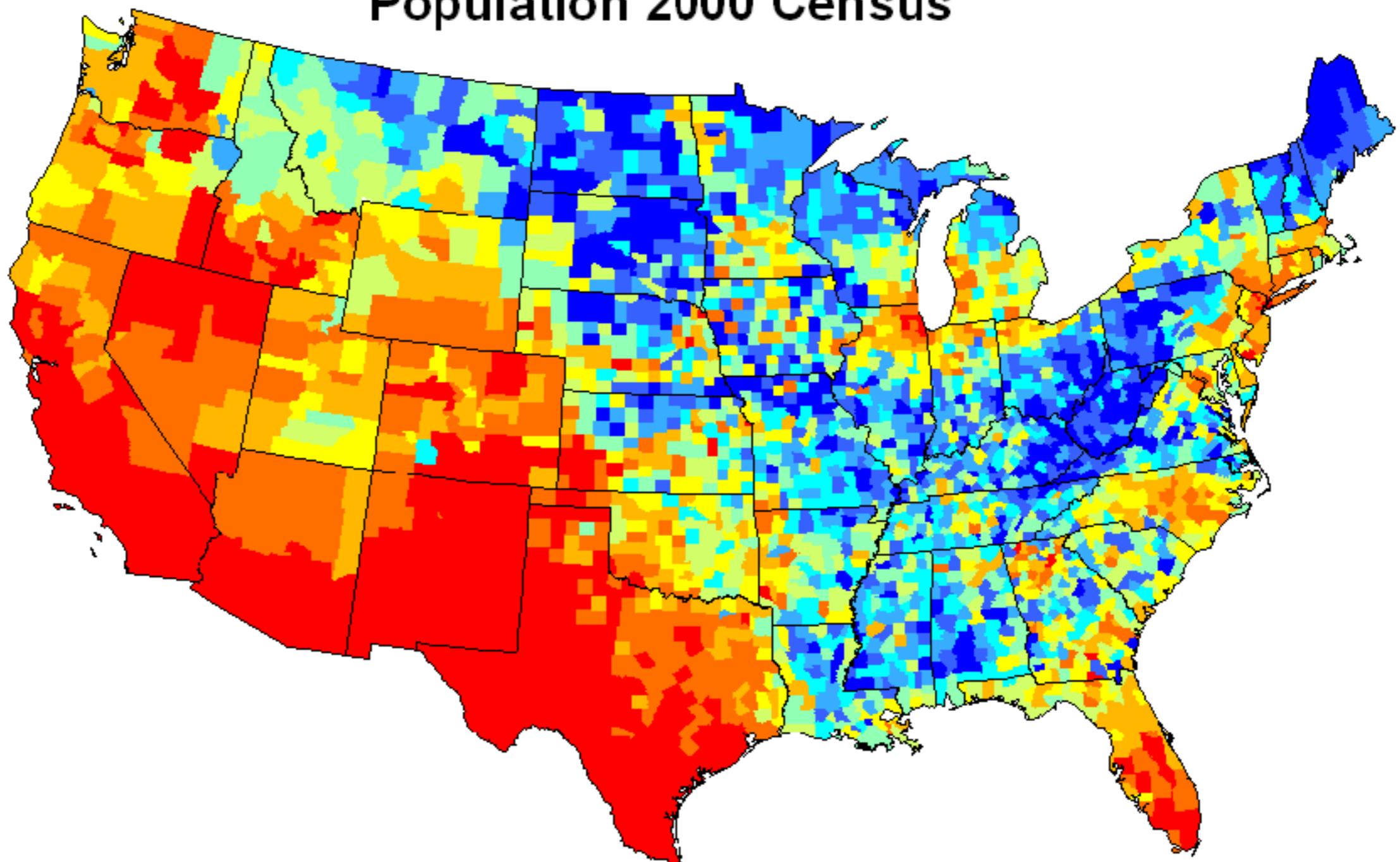


0 250 500 1,000 Miles

# Project 1 Map 16

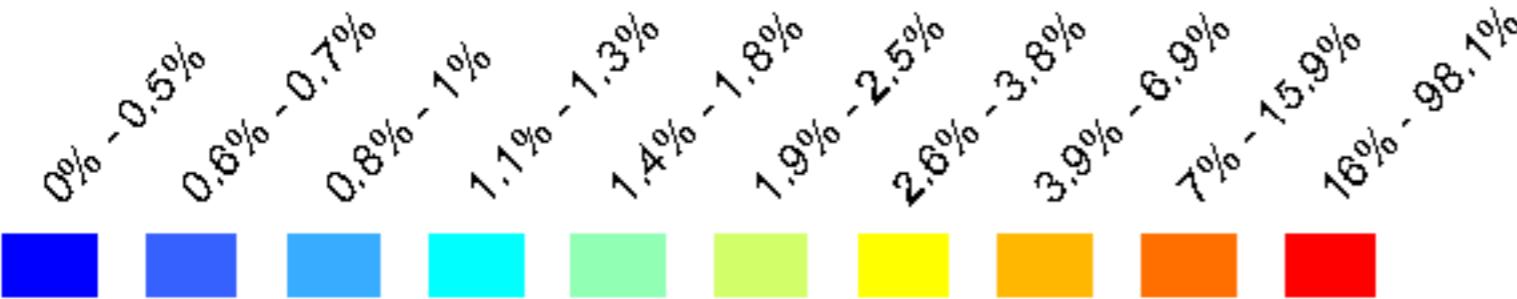
## Quantile, Hispanics normalized by Population 2000 Census

N



### Legend

#### US Counties Percentage of Hispanics



0 250 500 1,000 Miles

Data is subjective



## Sunsquatch

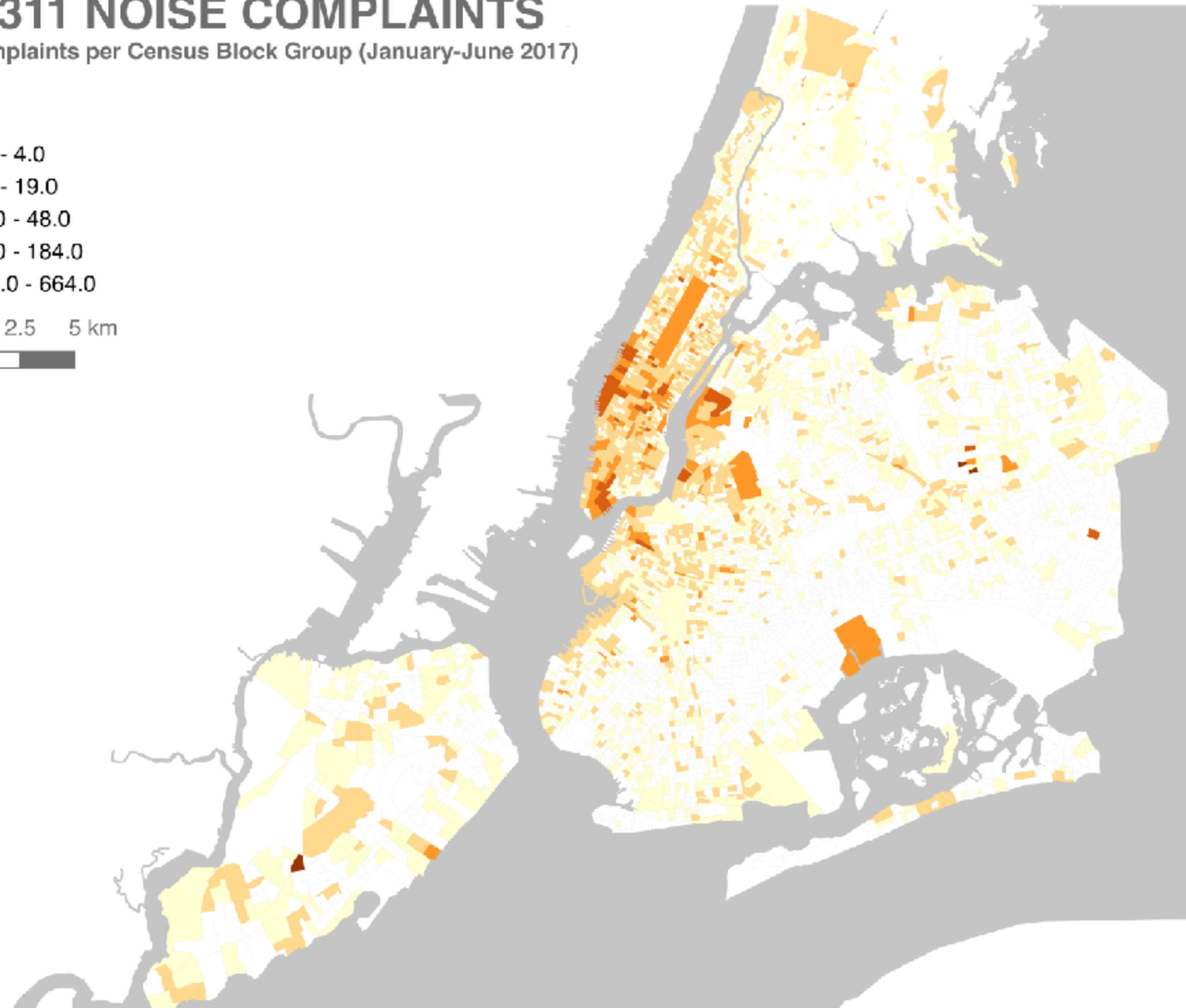
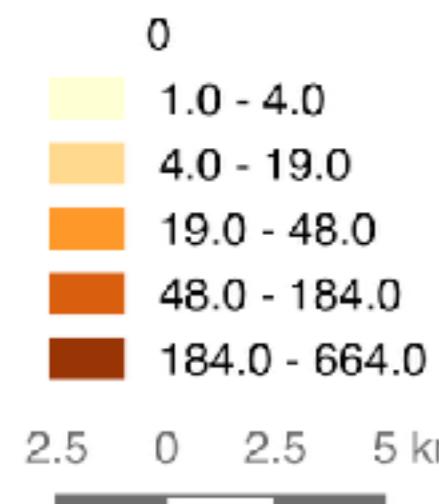
Best spots to see the eclipse  
and bigfoot... at the same time!

Data: Bigfoot Field Researchers Organization | NASA Scientific Visualization Studio

# 311 Data

# NYC 311 NOISE COMPLAINTS

Noise Complaints per Census Block Group (January-June 2017)

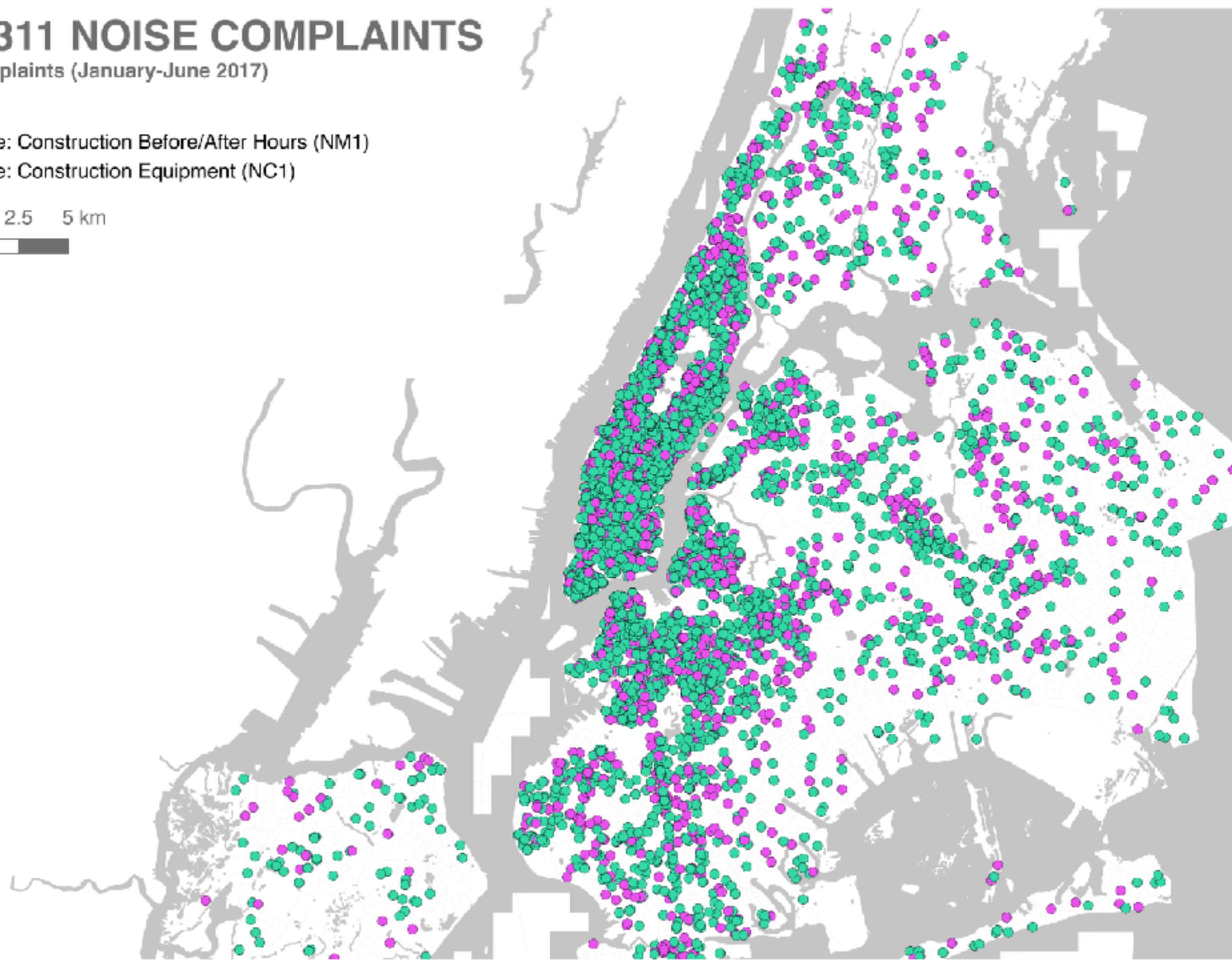


# NYC 311 NOISE COMPLAINTS

Noise Complaints (January-June 2017)

- Noise: Construction Before/After Hours (NM1)
- Noise: Construction Equipment (NC1)

2.5 0 2.5 5 km



# NYC 311 NOISE COMPLAINTS

Noise Complaints (January-June 2017)

- Noise: Loud Music/Daytime
- Noise: Loud Music/Nighttime

2.5 0 2.5 5 km



For Derrida, if meaning is undecidable so must be, pari passu, the measurement of the force of the map as a discourse of symbolic action. In ending, I prefer to align myself with Foucault in seeing all knowledge — and hence cartography — as thoroughly enmeshed with the larger battles which constitute our world. Maps are not external to these struggles to alter power relations. The history of map use suggests that this may be so and that maps embody specific forms of power and authority.

*-Harley pg 14*