



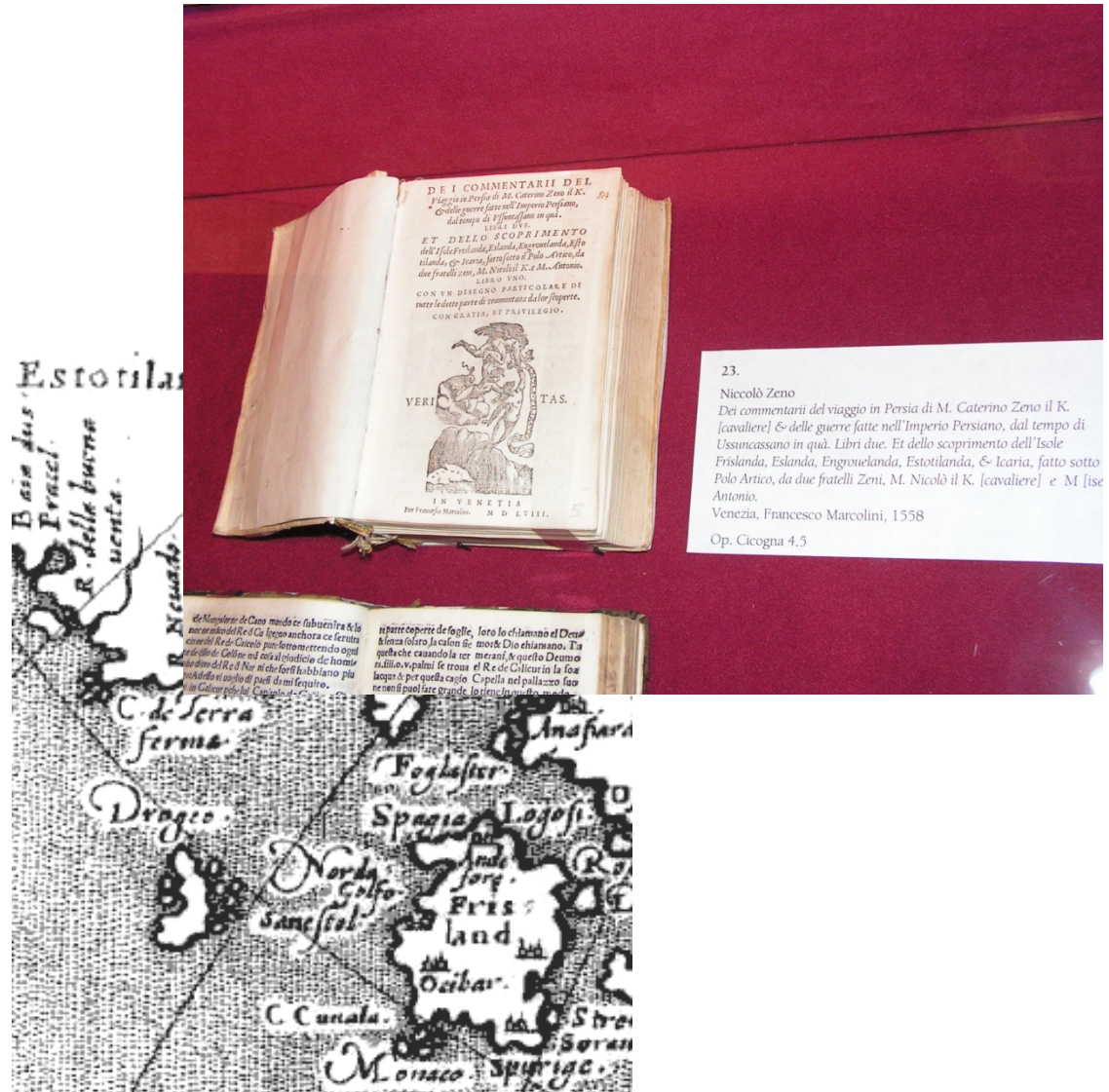
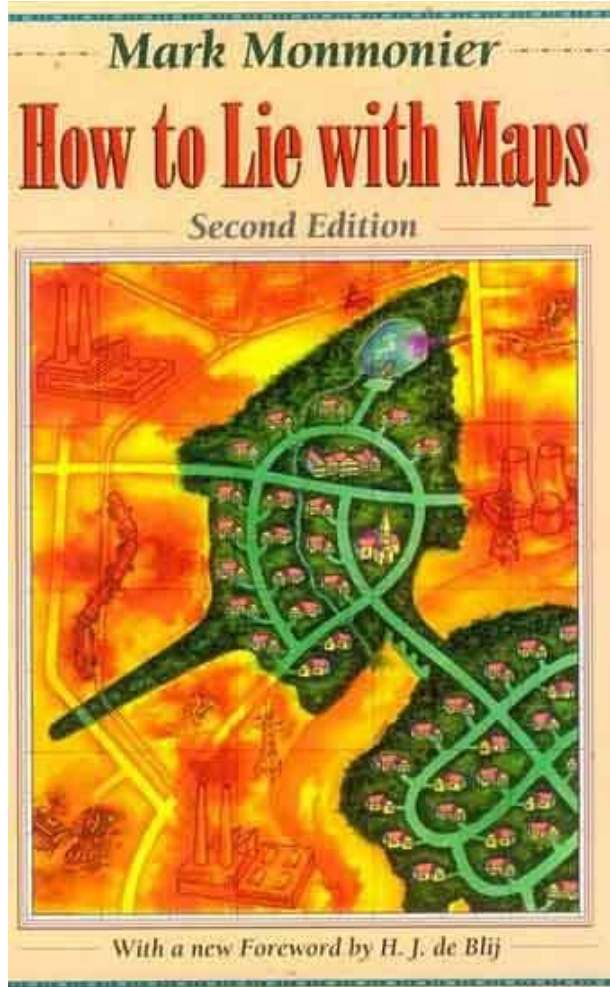
# Geog 126: Maps in Science and Society

*Maps as Propaganda*

# *propaganda*

- Information, especially of a biased or misleading nature, used to promote or publicize a particular political cause or point of view
- Maps can be altered to serve as propaganda to claim, threaten, falsify, challenge, etc
- Maps often serve critical role as objects for negotiation, justification, legislation

# The Source



# Monmonier's Eleven Rules for “polishing the cartographic image”

- Be shrewdly selective
- Frame strategically
- Accentuate the positive
- If caught, have a story ready
- Minimize the negative
- Dazzle with detail
- Persuade with pap
- Distract with aerial photographs and historical maps
- Generalize creatively
- Enchant with elegance
- When all else fails, try bribery



# Propaganda Techniques

<http://www.propagandacritic.com/>

## Word games

- Name-calling
- Glittering generalities
- Euphemisms

## False connections

- Transfer
- Testimonial

## Special Appeals

- Plain Folks
- Bandwagon
- Fear

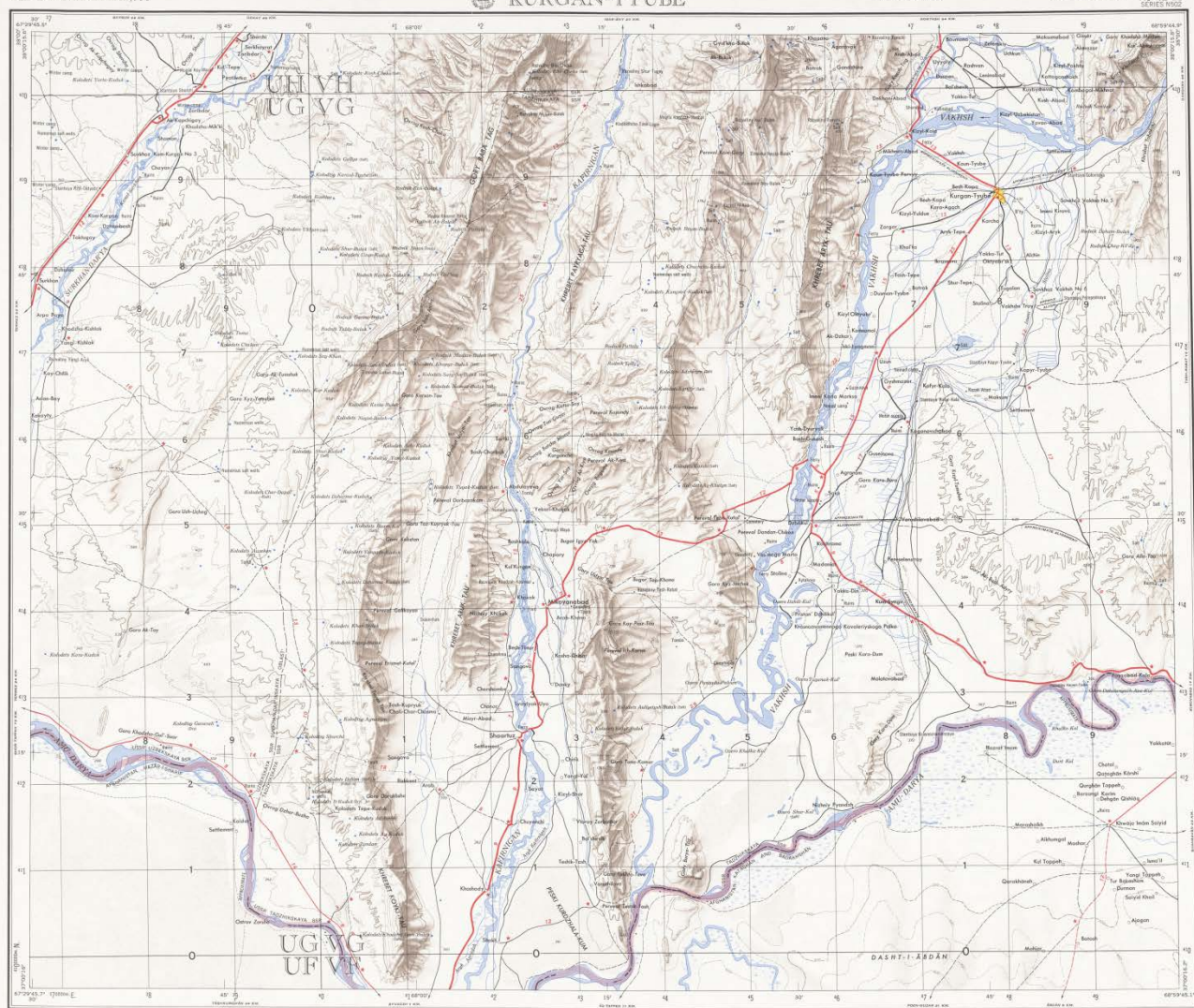


Victory through Air Power (1942) Disney

# Map Maskirovka

A set of procedures designed to confuse, mislead, and camouflage oneself from the enemy.

- Deliberate place name changes
- Feature types altered
- Hierarchies inverted
- Artificial places
- Grids and coordinates left out or relabeled
- As Monmonier describes (1996, p. 117), one form of deception useful at all levels of war is disinformation directed at mapping/navigating skills: Soviet cartographic disinformation affected all [publicly available] maps of urban areas. Detailed street maps of Moscow and other Soviet cities often failed to identify principal thoroughfares and usually omitted a scale, so that distances were difficult to estimate. Although local citizens were well aware of its presence, Soviet street maps of Moscow suppressed the imposing KGB building on Dzerzhinski square, as well as other important buildings.



Scale 1:250,000

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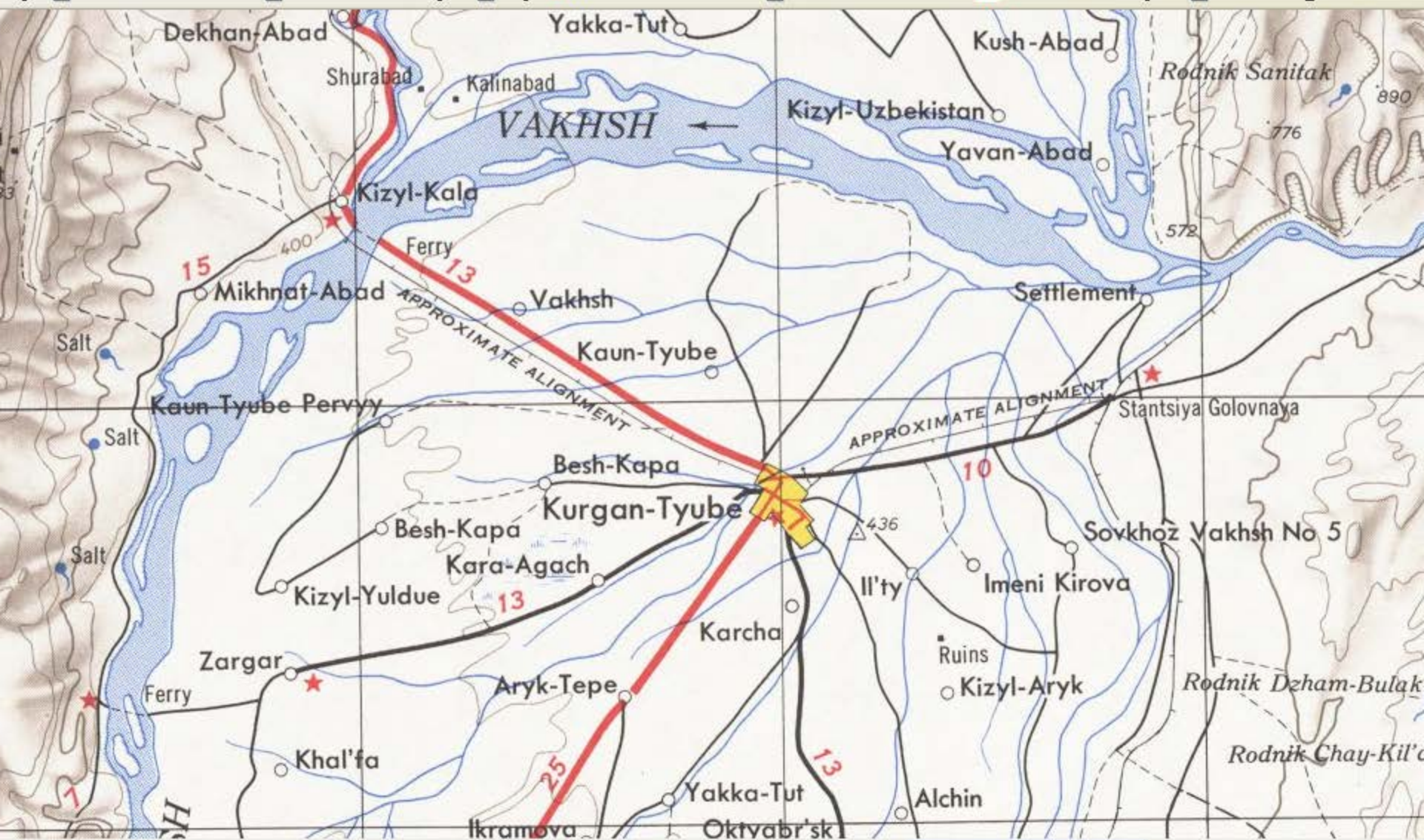
KURGAN-TYUBE,  
U.S.S.R.; AFGHANISTAN



# An Example

- Roads that are shown on the map produced by the Army Map Service (AMS), but not on the Soviet map.
- Source: Главное Управление Геодезии и Картографии, При Совете Министро СССР, Title: Кулябская и Кургар-Тюбинская Области, Sheet: T-10930, Scale: 1:400,000, Date: 1982







# Search

Find Businesses Directions

e.g., Reservoir Rd. Clayville, NY

an-Tyube

Kurgan-Tyube, Tajikistan

## Places

Add Content

My Places

jd : week 44 (07)

Urban Growth Simulation

7m.kmz

Hwy217:24K

Goleta DRG

LightBlueLine (7m): Santa Barbara, CA

Marks the new waterfront

## Layers

ew: Core

Primary Database

Terrain

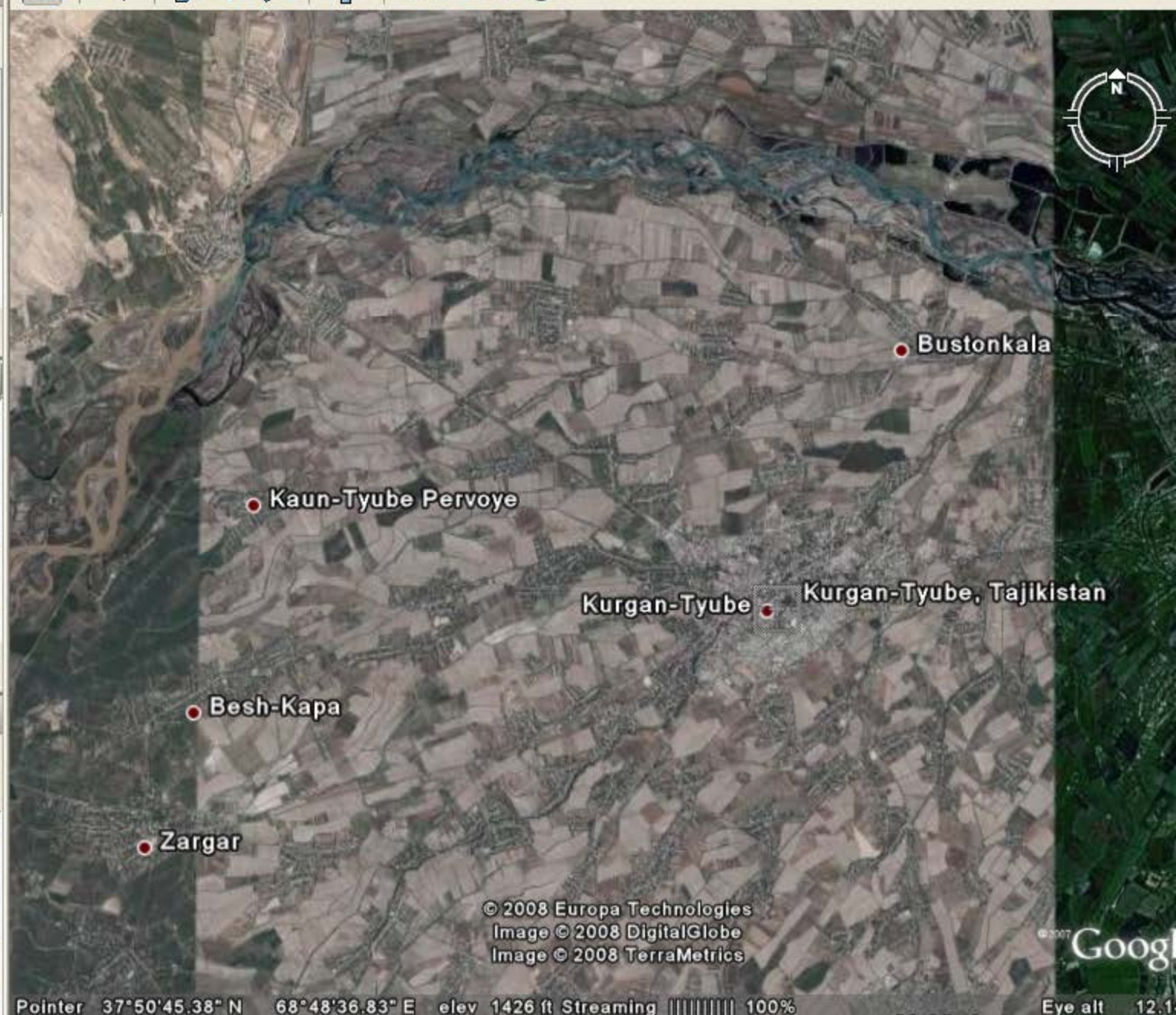
Geographic Web

roads

Traffic

3D Buildings

Borders and Labels



© 2008 Europa Technologies  
Image © 2008 DigitalGlobe  
Image © 2008 TerraMetrics

Google

Pointer 37°50'45.38" N 68°48'36.83" E elev 1426 ft Streaming 100%

Eye alt 12.1

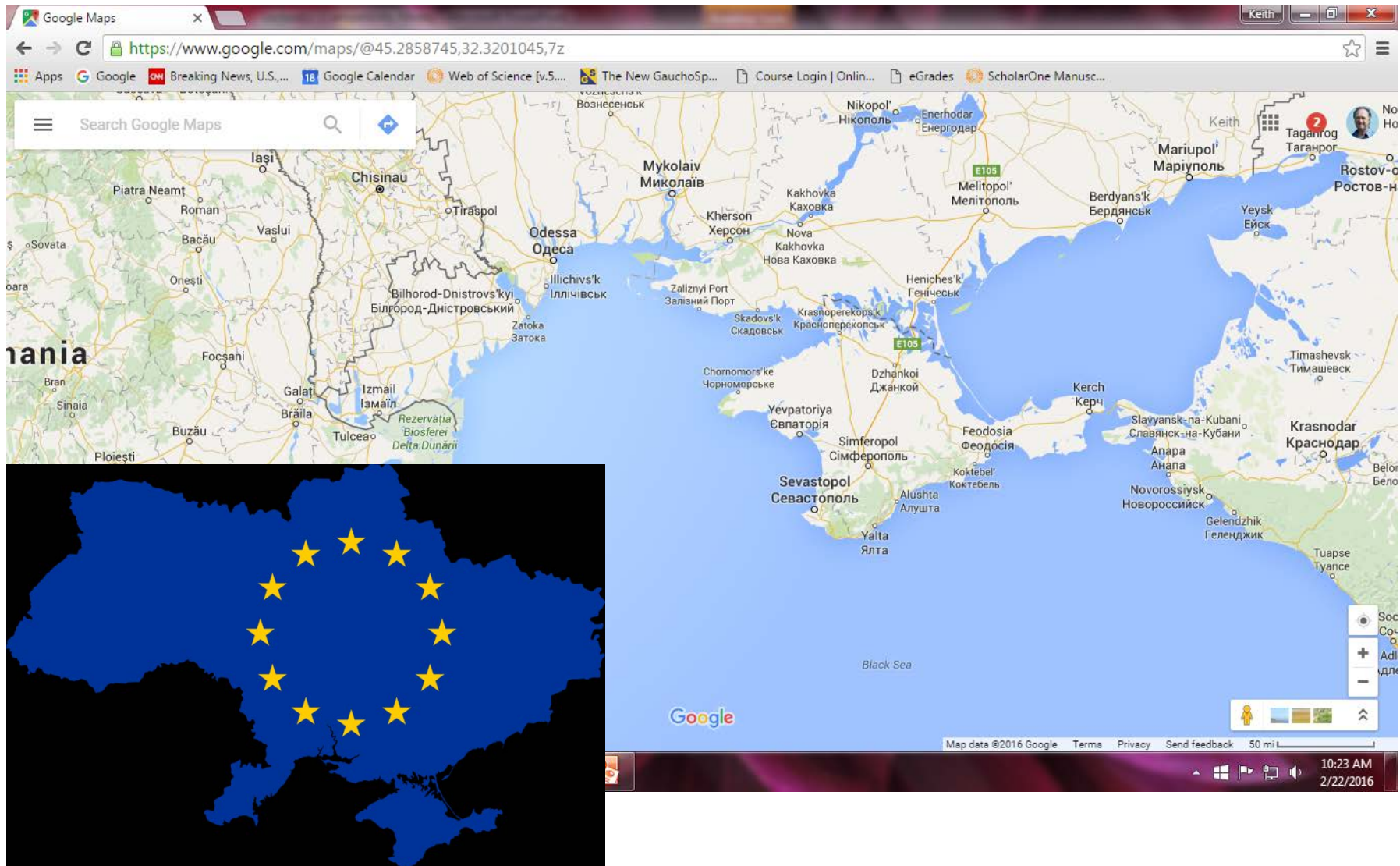
# The Bandwagon

# Ethnic groups of the Soviet Union



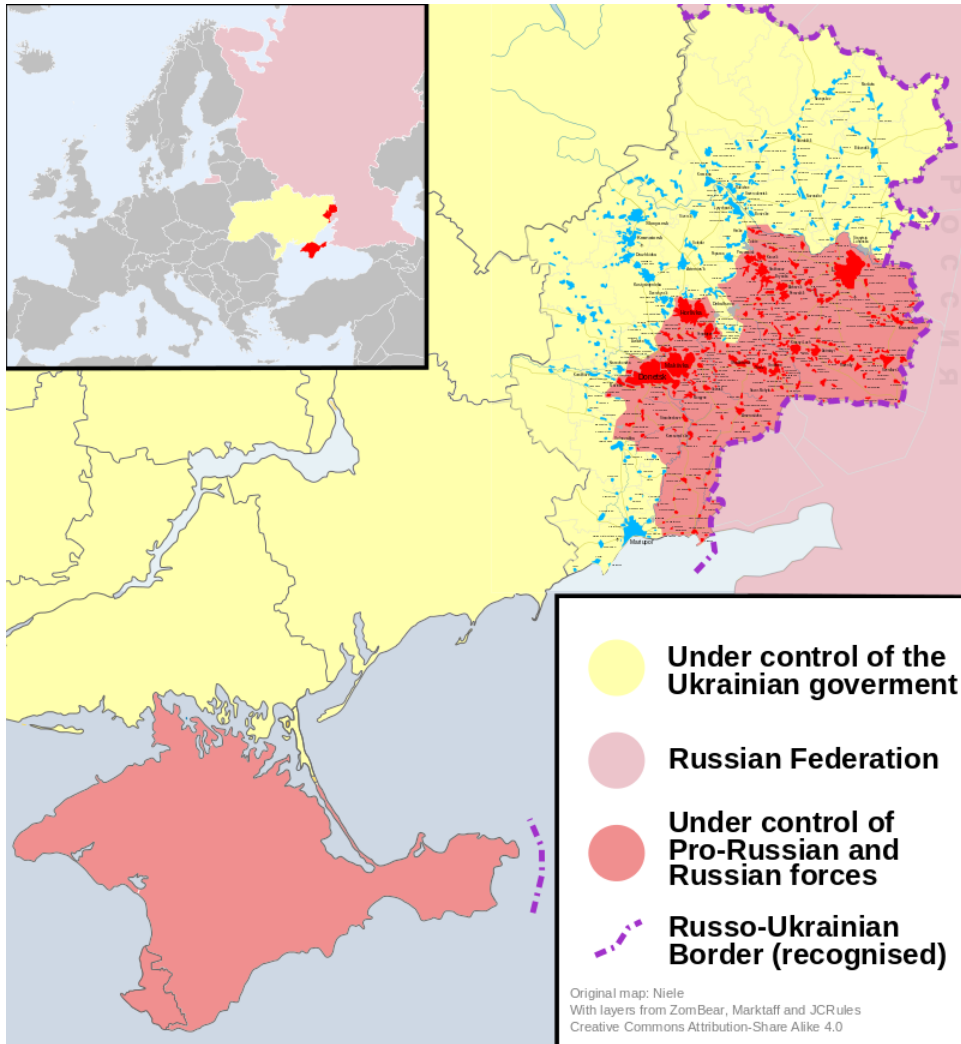


# Russian invasion of Crimea

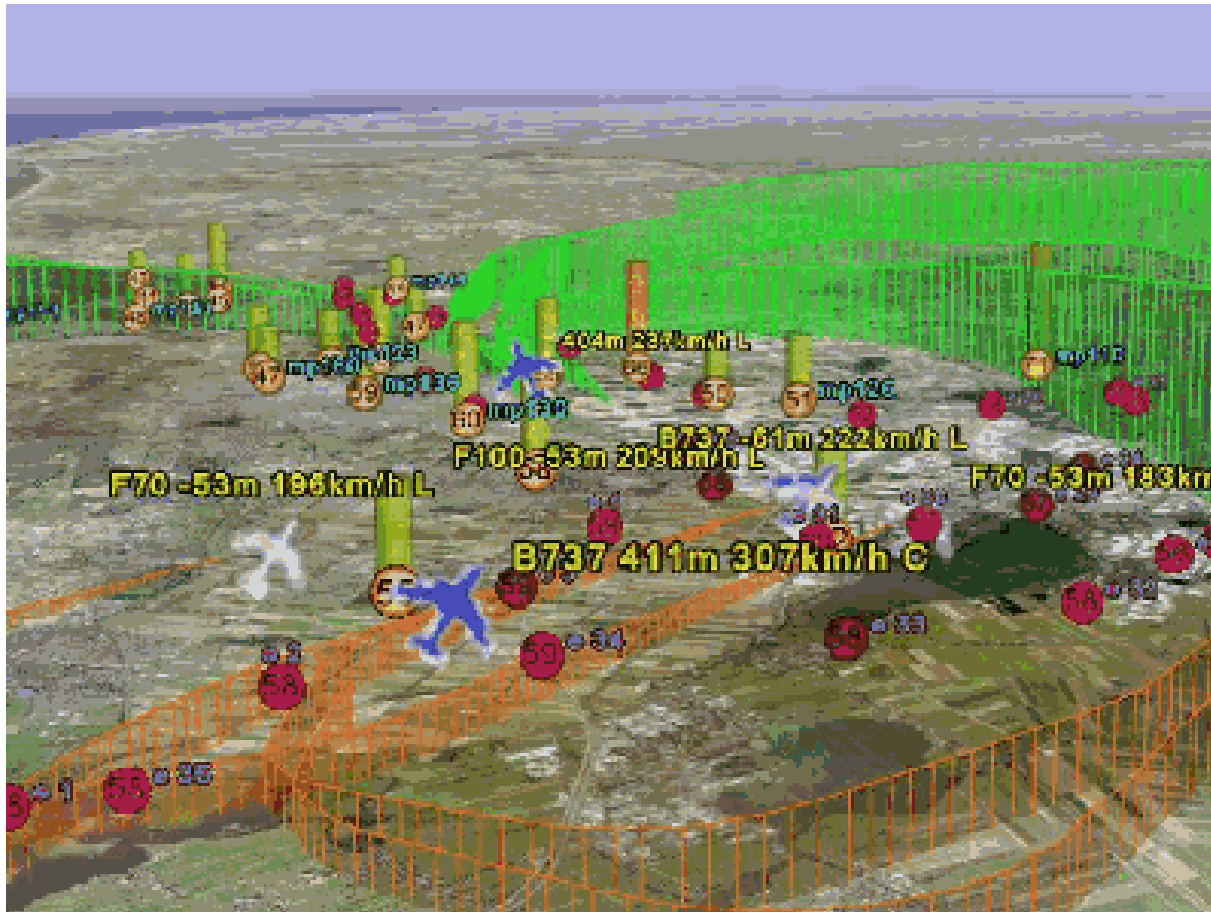




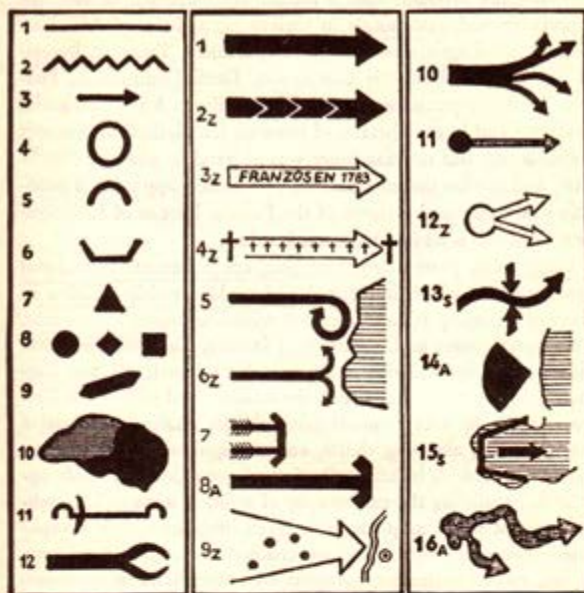
# 20 February 2014 – ongoing



‘Cartographic propaganda can be an effective intellectual weapon against an unresponsive, biased, or corrupt bureaucracy.’ Mark Monmonier



Fear



- | BASIC SYMBOLS      | ATTACK—ADVANCE—STRUGGLE                                 |                                                               |
|--------------------|---------------------------------------------------------|---------------------------------------------------------------|
| 1. The line        | 1. Direct attack                                        | 11. Planning arrow — center of the movement                   |
| 2. The zigzag line | 2. Phases of attack                                     | 12. Split attack from a particular region                     |
| 3. The arrow       | 3. Hollow arrow with explanation                        | 13. Attack intercepted and strangled                          |
| 4. The circle      | 4. Symbolic arrow—advance of Christianity               | 14. Mass attack on limited area                               |
| 5. The half-circle | 5. Frustrated attack                                    | 15. Natural approach to a given area                          |
| 6. The demipolygon | 6. Frustrated attack                                    | 16. Routes of attack through channels predetermined by nature |
| 7. The wedge       | 7. Frontal attack                                       |                                                               |
| 8. The target      | 8. Frontal attack                                       |                                                               |
| 9. The peg         | 9. Attack from several points — from a league of cities |                                                               |
| 10. Crosshatching  | 10. Radiating attack from one source                    |                                                               |
| 11. The clamp      |                                                         |                                                               |
| 12. The pincers    |                                                         |                                                               |

*Zeitschrift für Geopolitik*, Vol. XII, No. 4 (Apr., 1935).

Geography, particularly war geography, became a national preoccupation which influenced and molded public opinion in postwar Germany from elementary school to university seminar, from street corner and bookstore to factory, club, beer-hall, and dinner table. Space, living room, race, land, blood, soil, and Germanic destiny were poured into the intellect and will of the German people by every conceivable publicity channel. Suggestive maps, posters, alarming charts, and manipulated statistics inundated the land. A bizarre collection of geopolitical symbols appeared, paralleling the cartography of military science. The public was first made map-conscious, then introduced to a complicated system of arrows, wedges, crosshatching, clamps, pincers, circles, etc. to indicate geographic advance, racial or economic infiltration, lines of thrust, encirclement, enclosure, alliances, boundaries, and other movements of geopolitical forces.

# Symbols for use on propaganda maps





L'ENTENTE CORDIALE ♥  
1915



# World War One: French

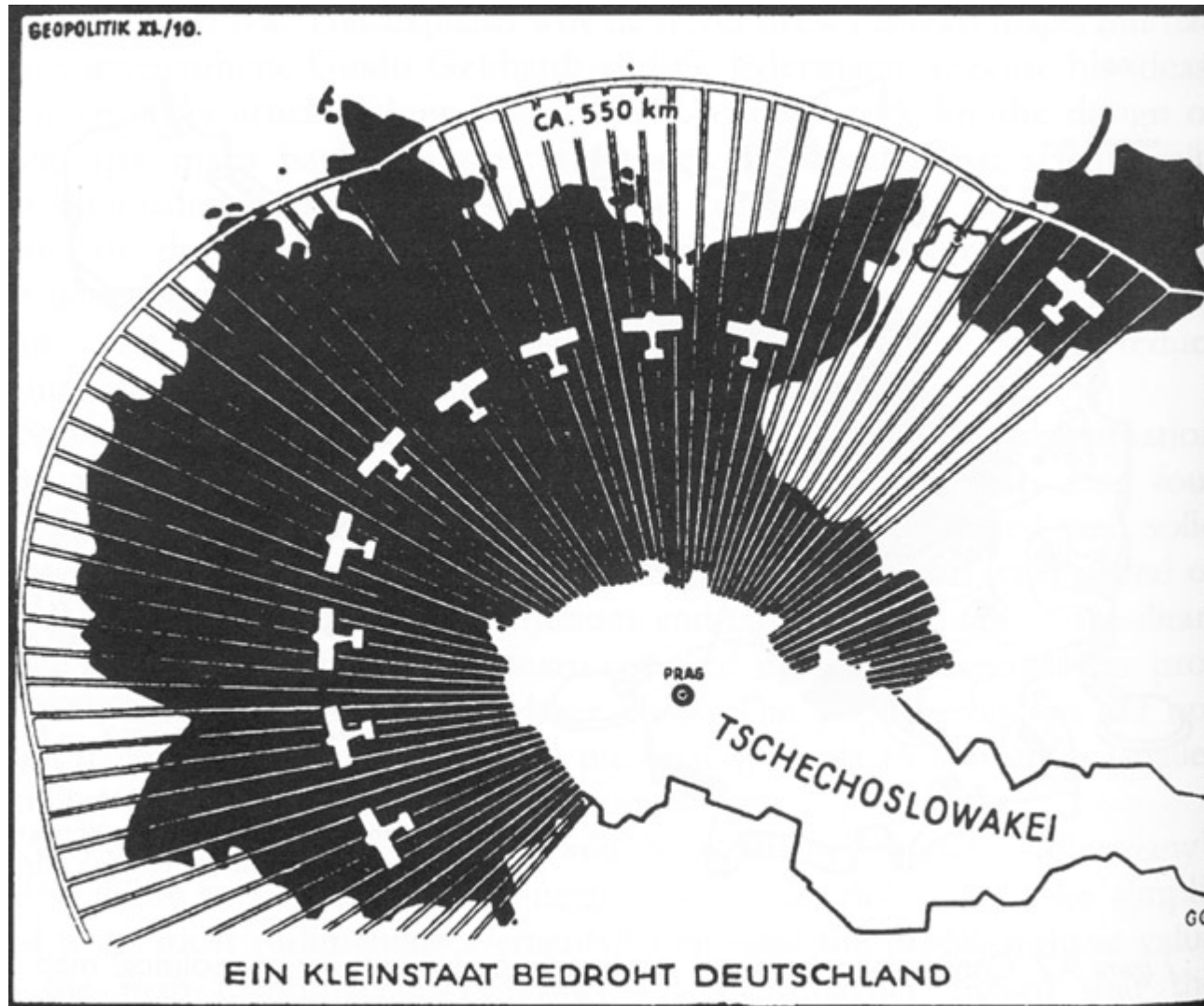


# Pre-World War Two





# Nazi Pre-WWII





"Antwerp." In *Life*, 26 January 1953. p.27.

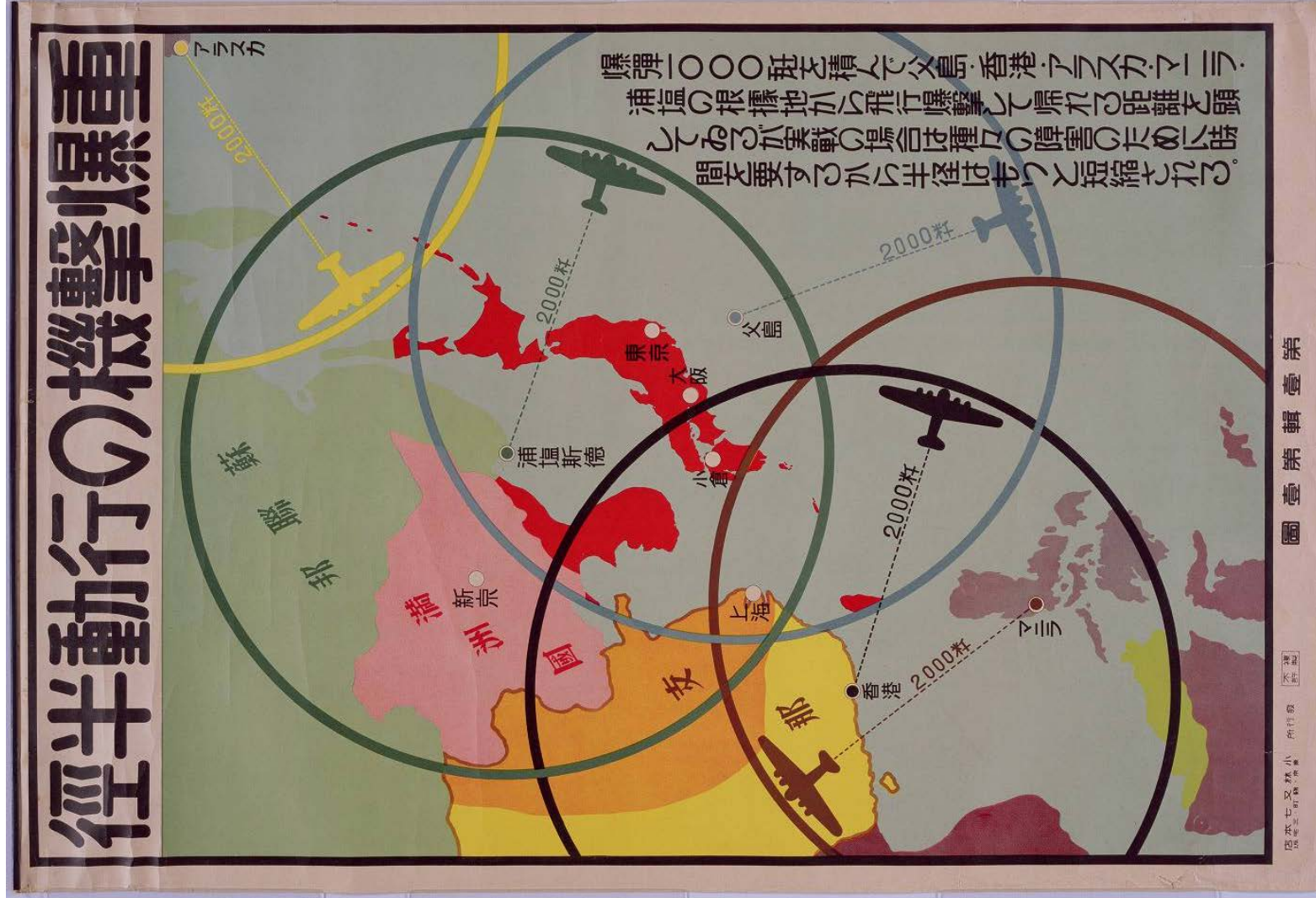




Japanese propaganda caricature map from around 1941, depicting a U.S. blockade of Japan from the Philippines (then a U.S. possession)



# Japan as an Air Target



# Serio-Comique Map of Europe at War (London 1914)



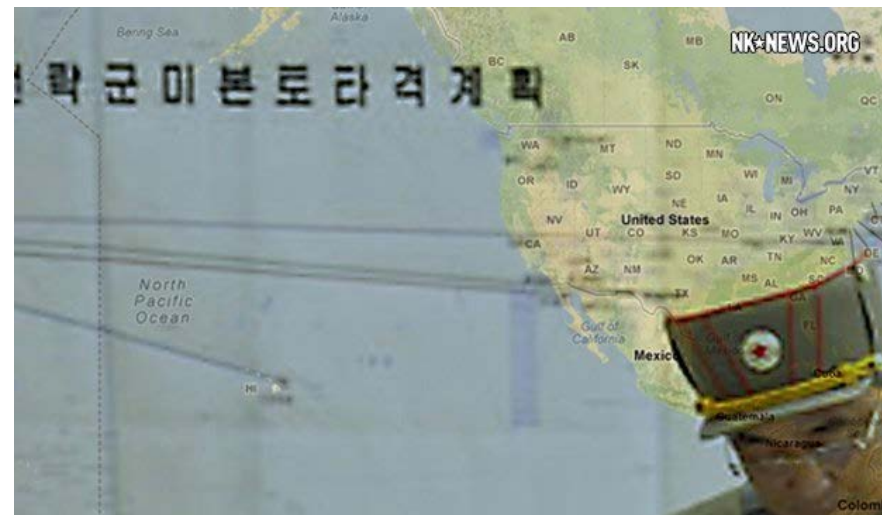


미본토전역이

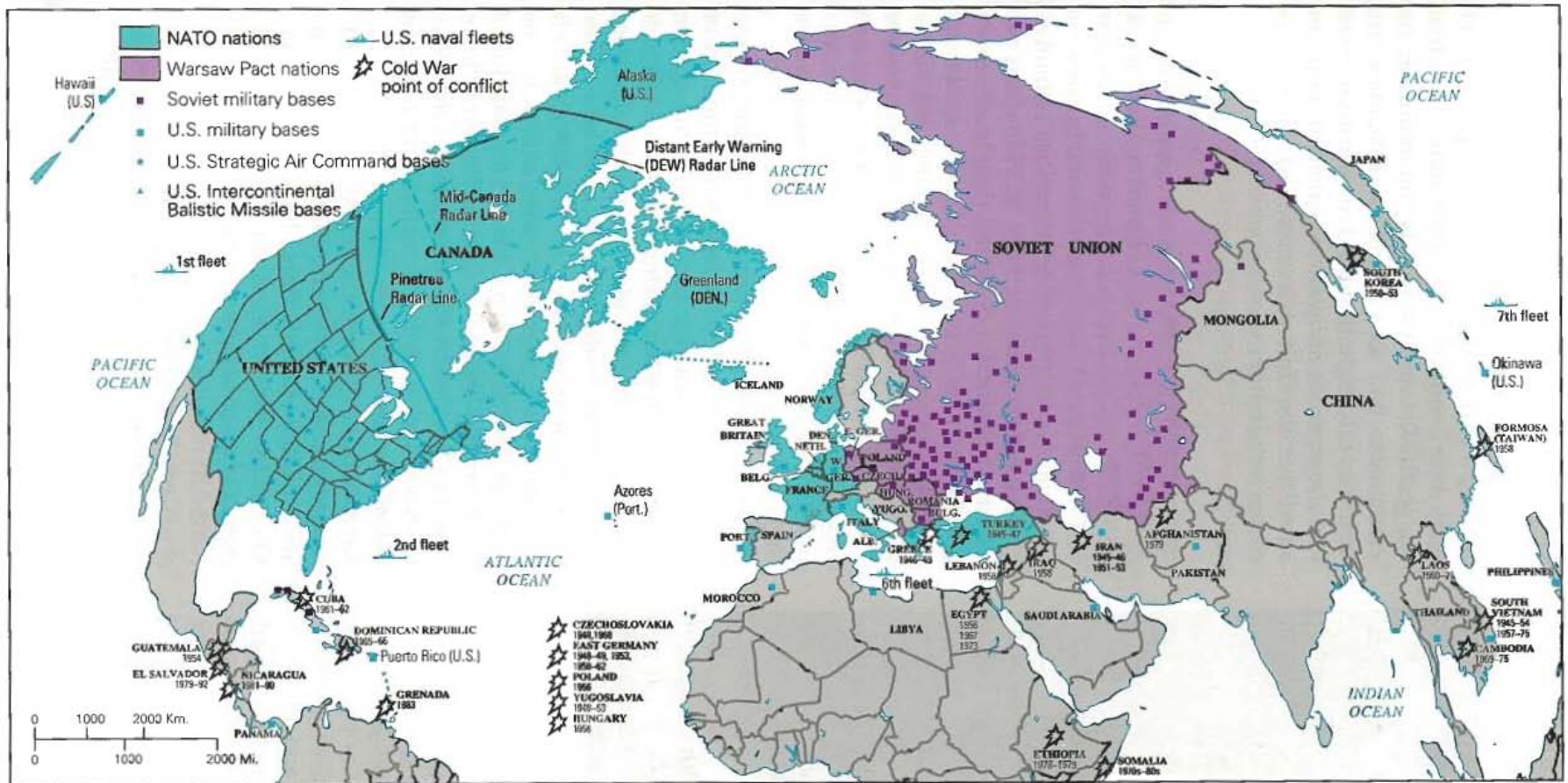


유엔의 사정권안에 있다!

# North Korea

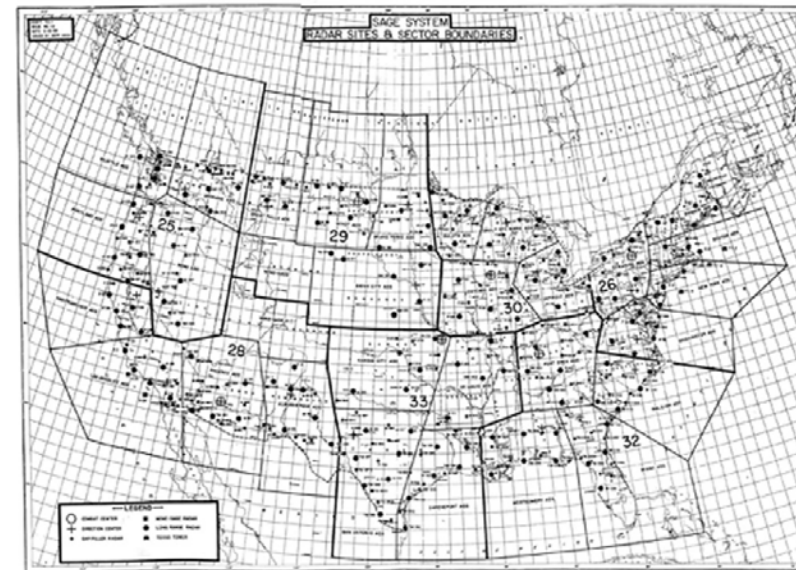
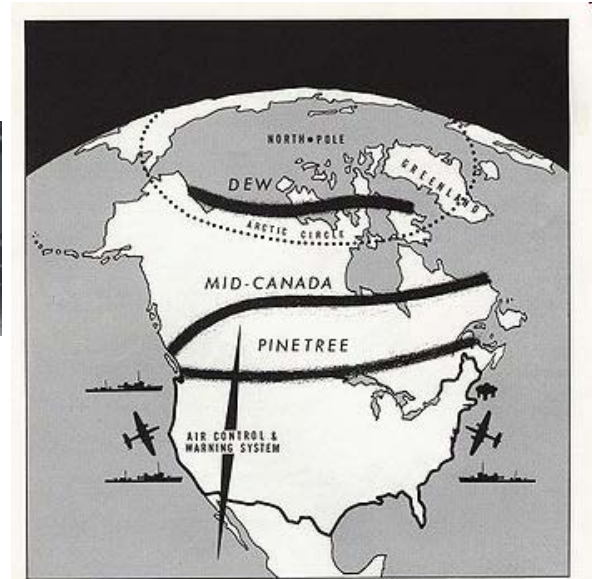


# Cold war Cartography





- SAGE and the Cold War



Developed by MIT Lincoln Laboratory, IBM and others.

Operational in 1959

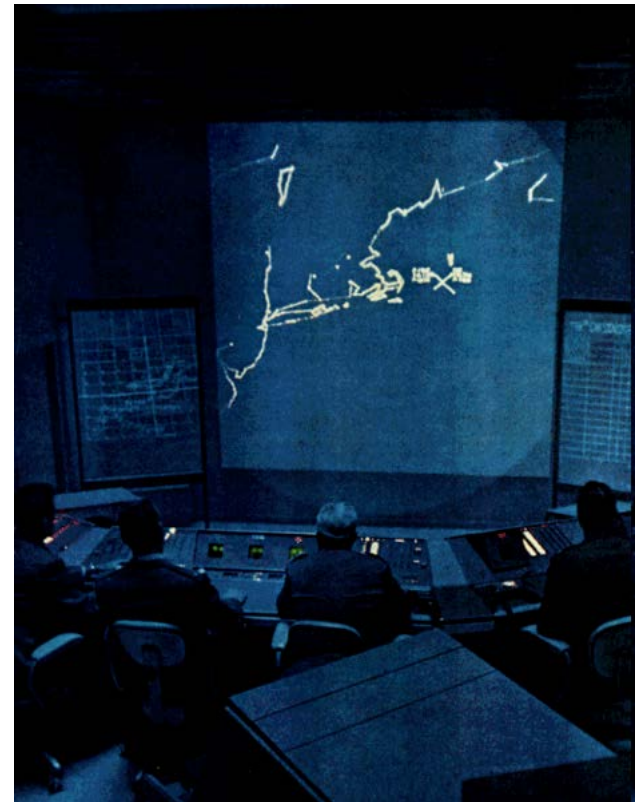
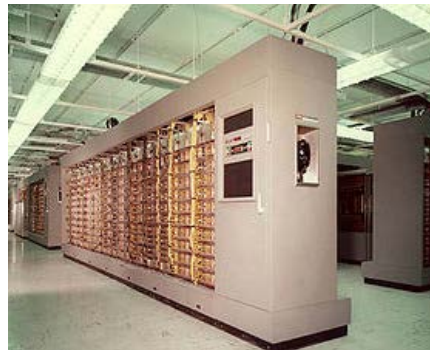
Part of North American Aerospace Defense Command (NORAD) until 1989

Servomechanisms Laboratory, under the direction of Jay Forrester (Systems dynamics)



# SAGE: Semi Automatic Ground Environment

- Project cost between 8-12 billion dollars (1964)
- Pushed the limits of computing, networking, and control
- The AN/FSQ-7 computer contained 55,000 vacuum tubes, occupied about 2,000 m<sup>2</sup> of floor space, weighed 275 tons, and used up to three megawatts of power
- Telecommunications were radio and telephone based



# SAGE and Computer Cartography

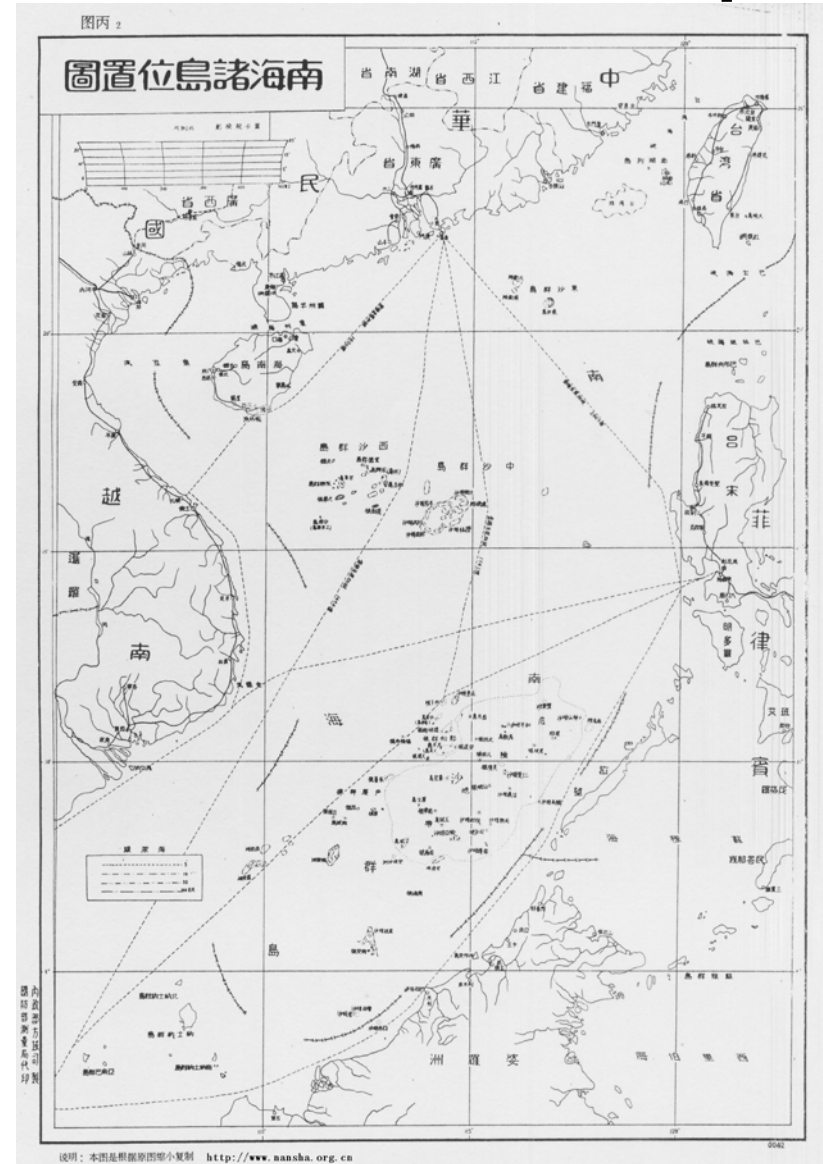
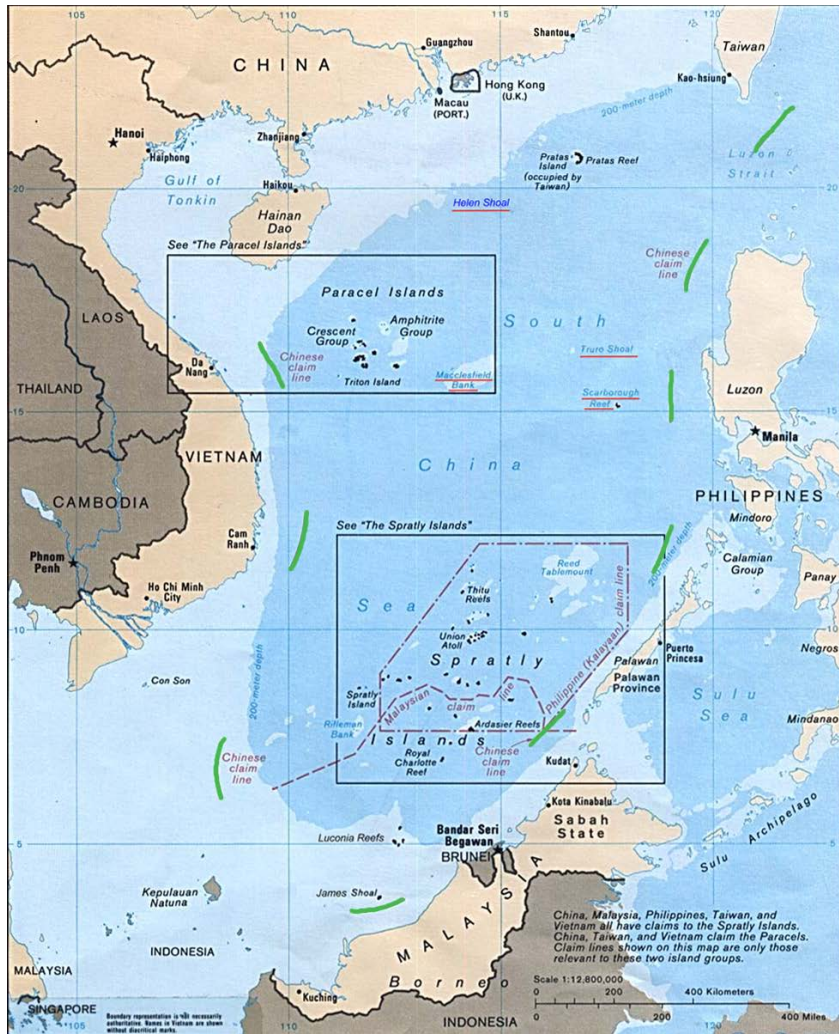
- RAND in Santa Monica worked on Cathode Ray Tube Display & Workstation
- System included input and output
- Mylar map overlays become on-screen projected displays
- Tobler's classic "*Automation and Cartography*" 1959



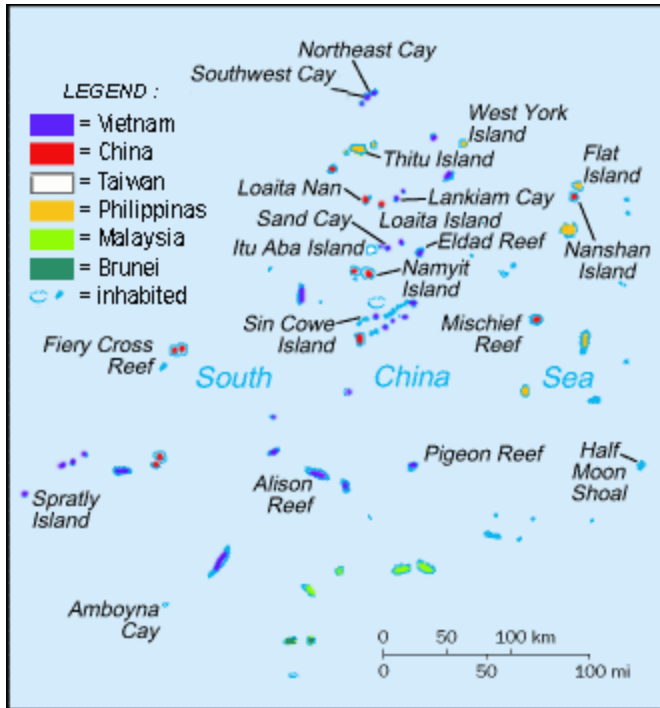
# Cheating



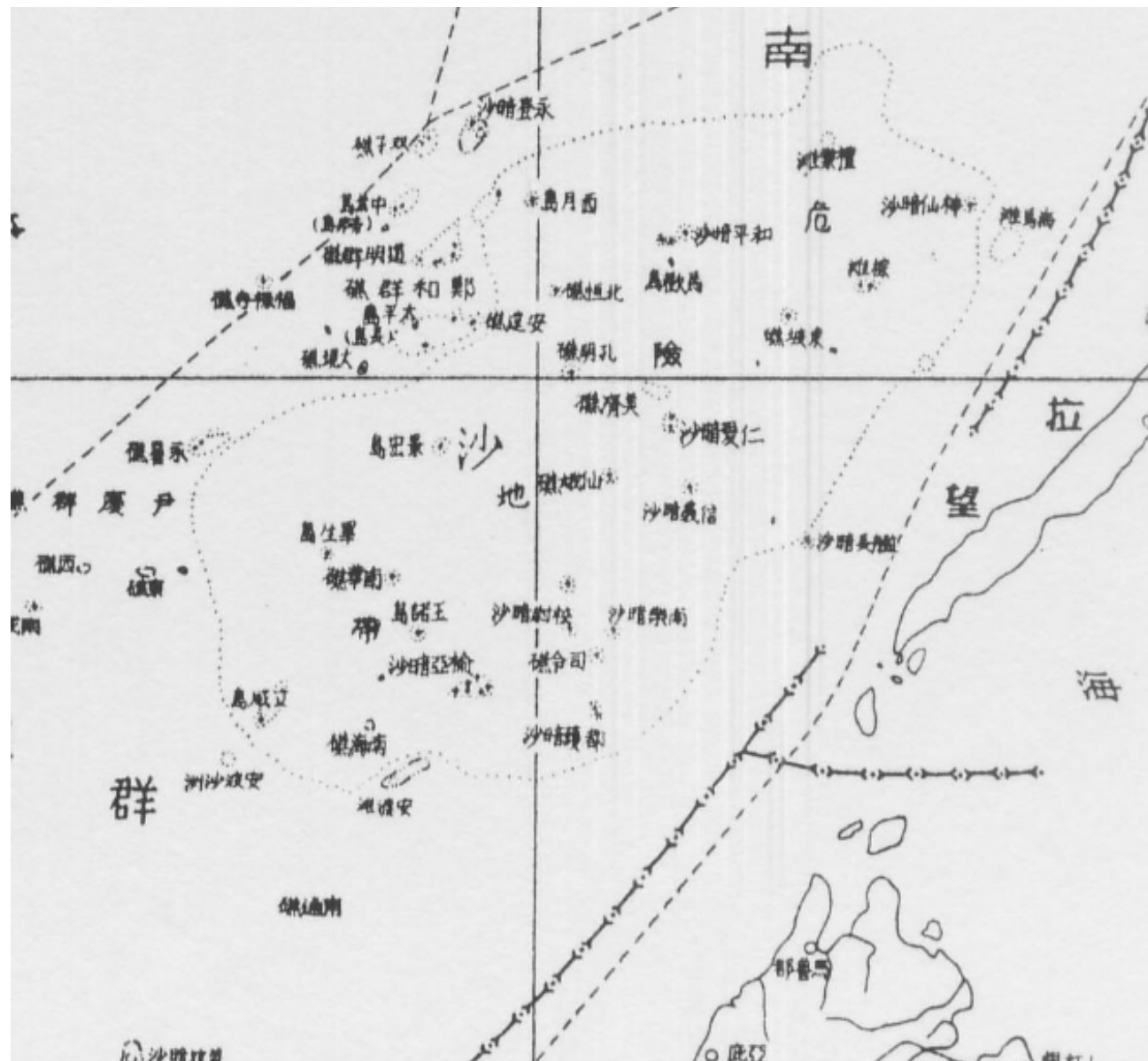
# The 9 (1947) and 11-dash maps



# Spratly Islands

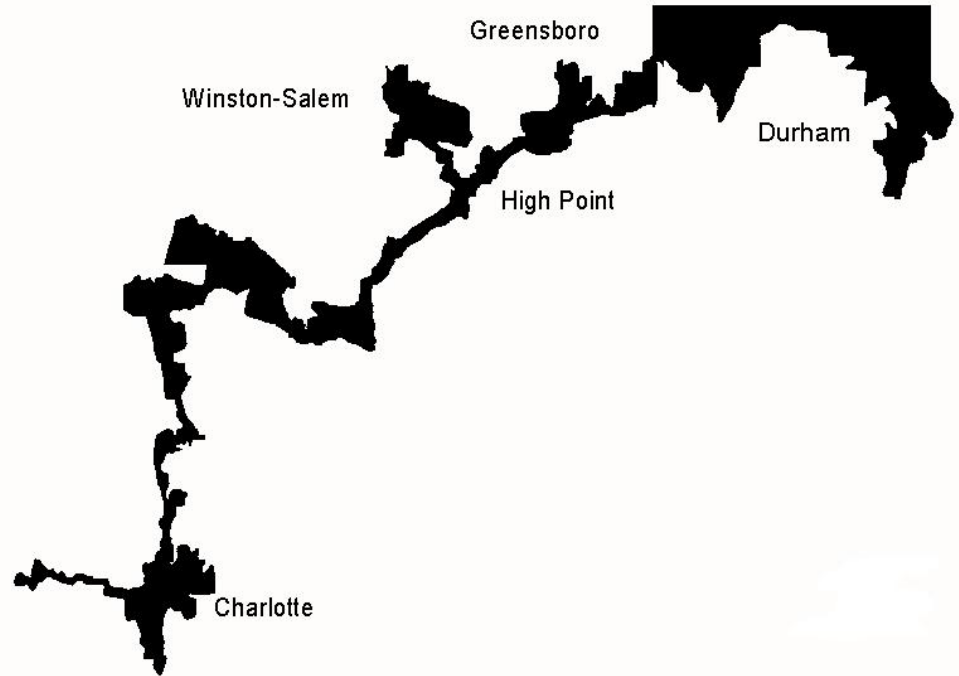


# Detail





# Gerrymandering



**NC Congressional District 12 - 1992**

# CA district 23 Packing

## Congressional District 23



[nationalatlas.gov](http://nationalatlas.gov)<sup>TM</sup>

**23** Congressional District

Ventura County



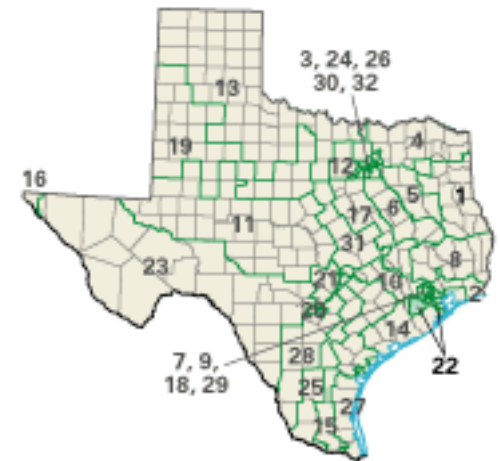
*California (53 Districts)*

# Texas district 22 Cracking

## Congressional District 22



**22** Congressional District  
*Harris* County

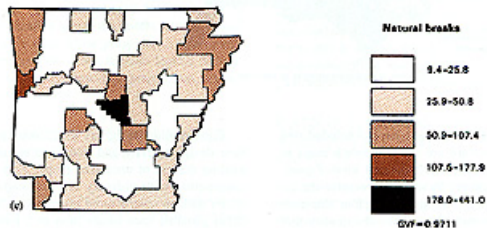
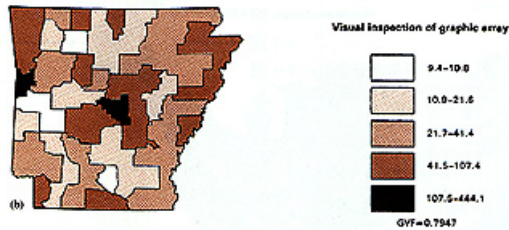
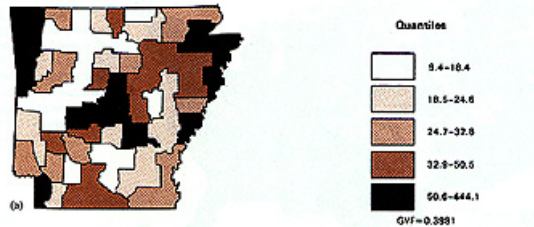


*Texas (32 Districts)*

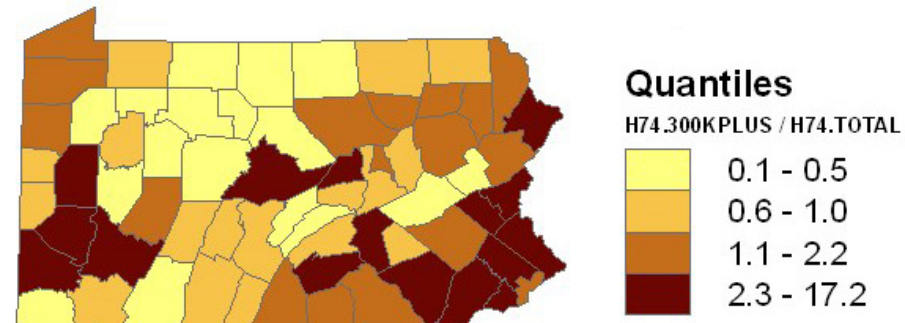
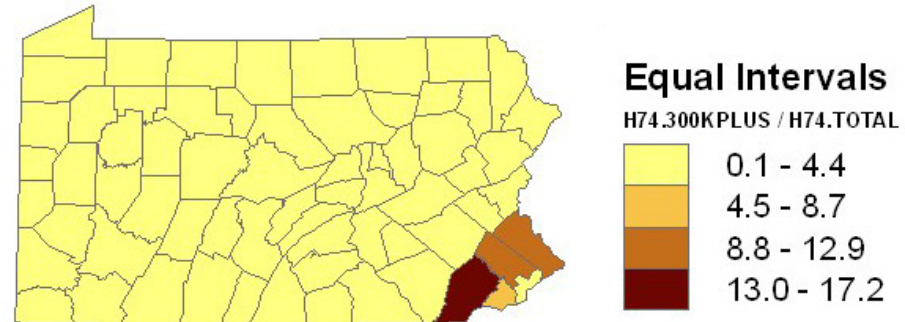
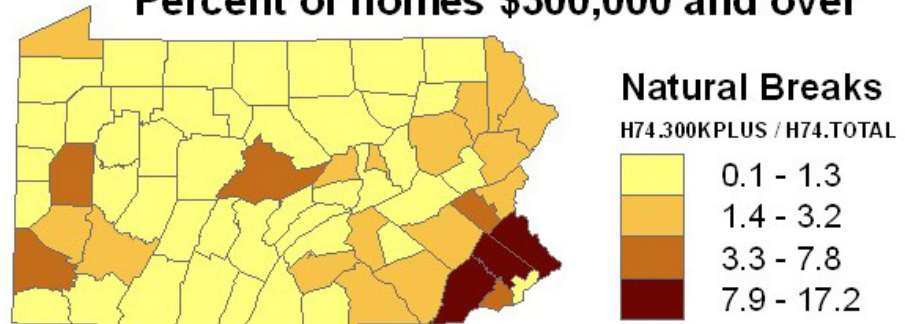


# Glittering Generalities

# Choropleth classification



Percent of homes \$300,000 and over

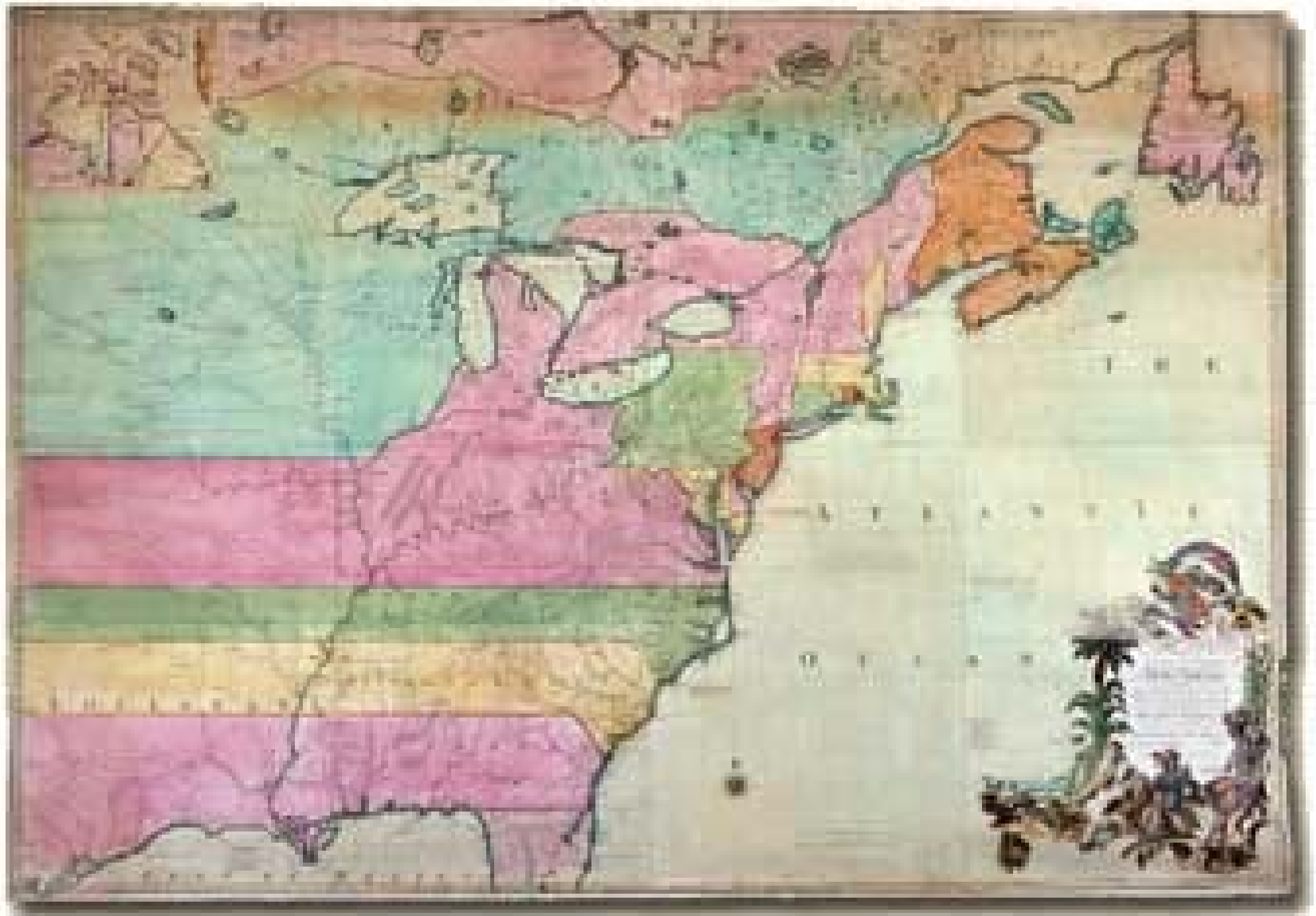


# The Sun Never Sets...

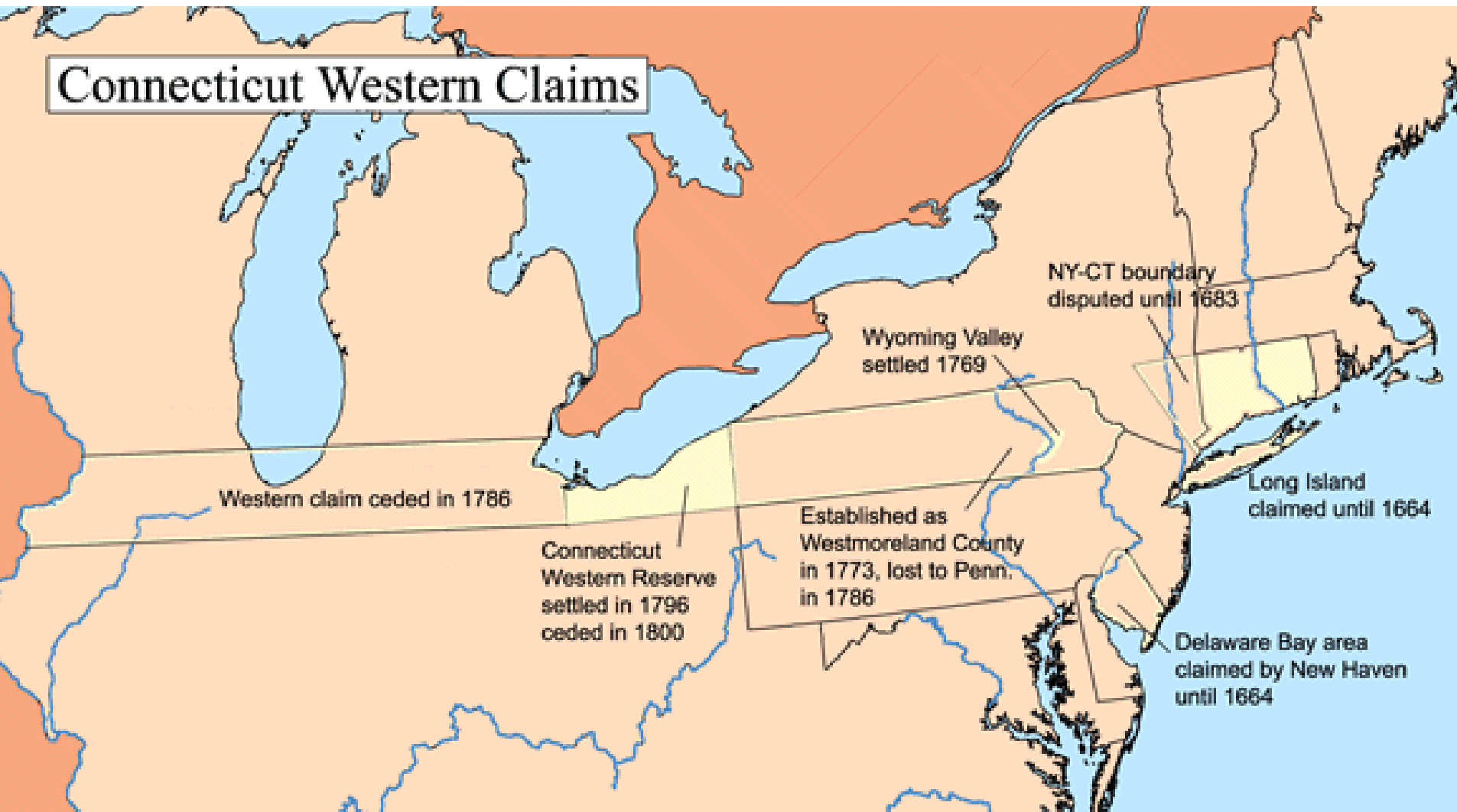




***John Mitchell 1775***



# Connecticut's Western Reserve

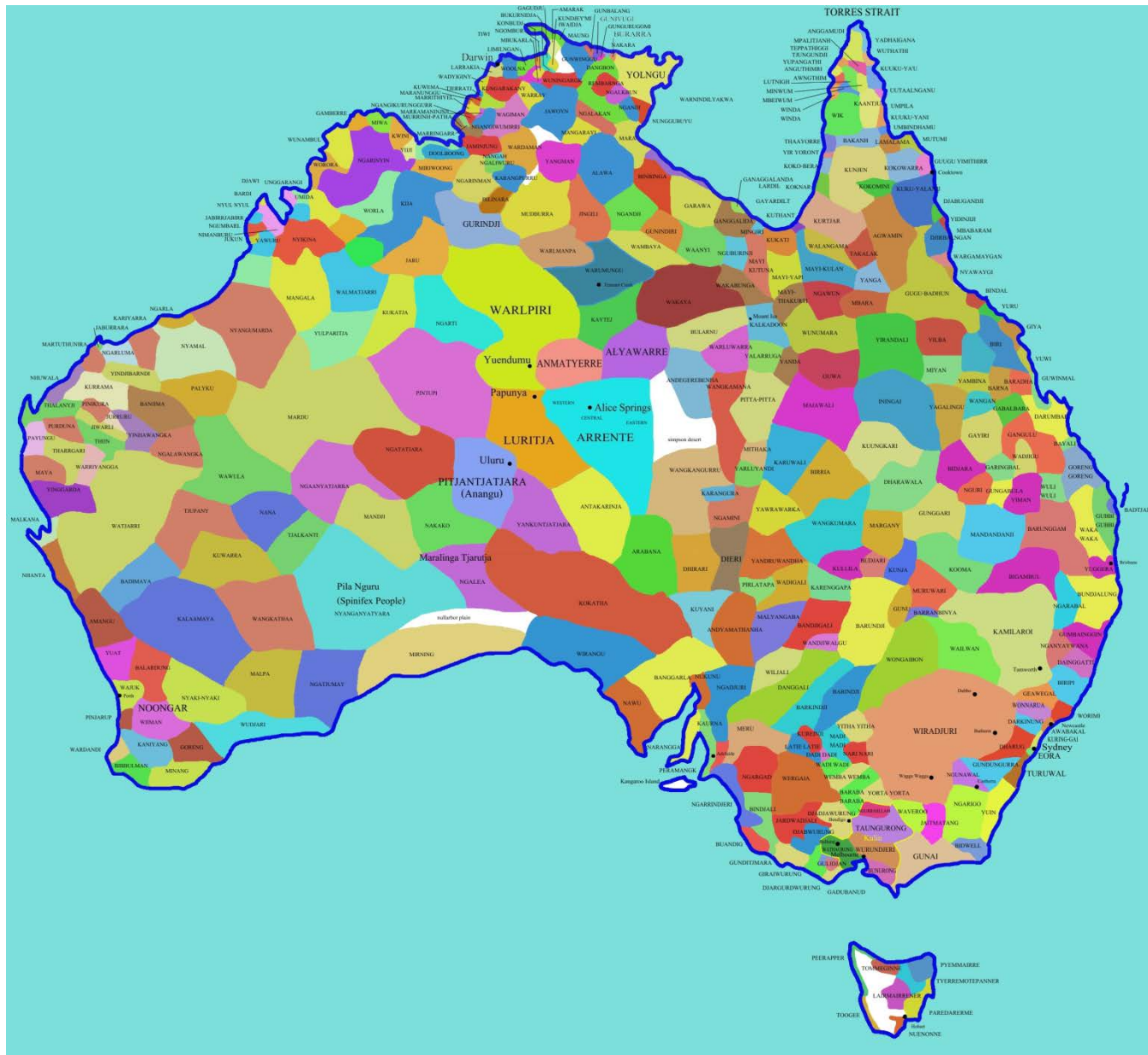


"We will defeat drought, too!".





# Aboriginal Australia



# Promotion using maps





# Promoting settlement



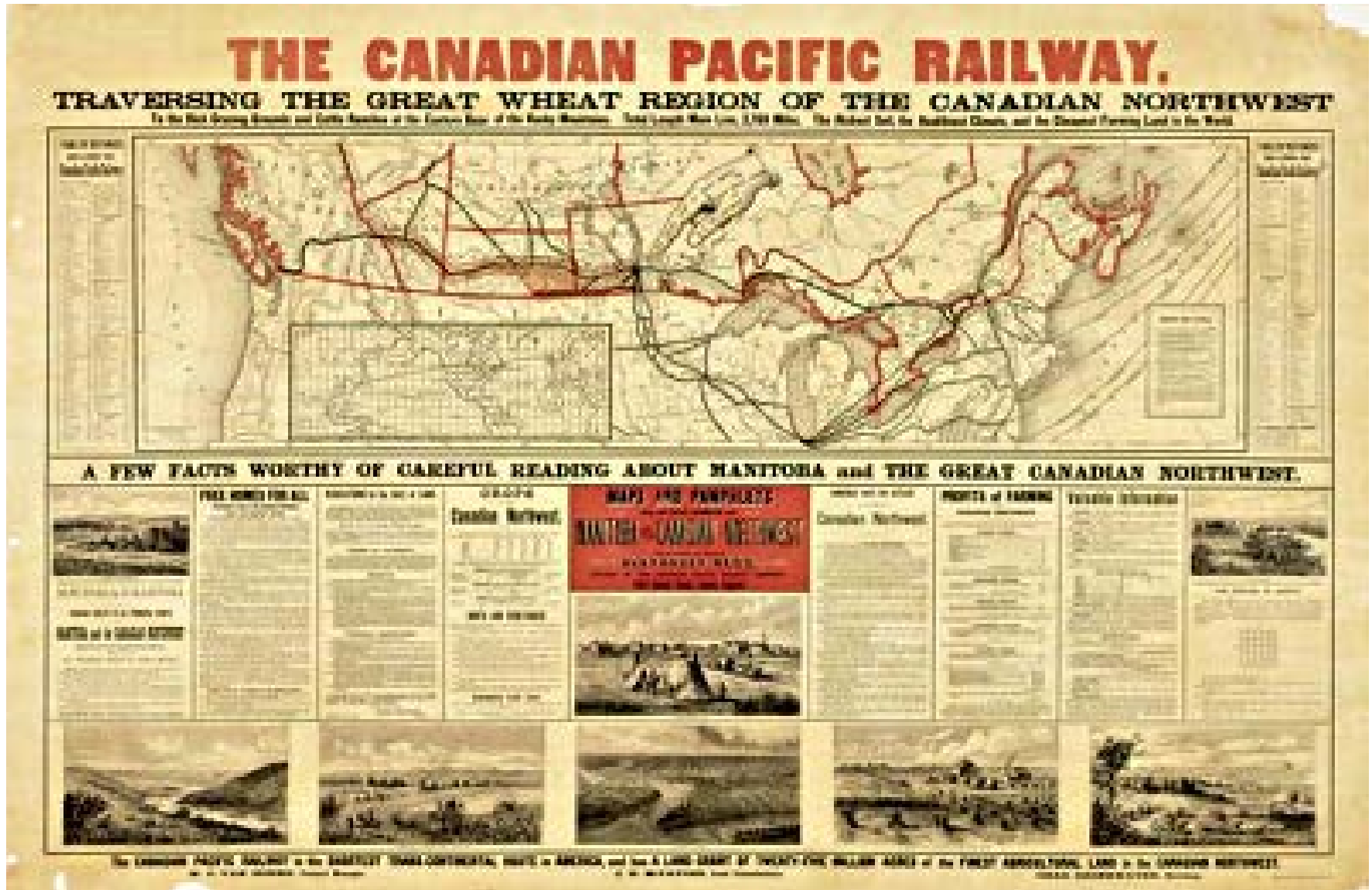


# Promotion: Dubai



## Canadian Pacific Railway promotional map (1881)

(Library and Archives Canada, NMC 11868)



# Travel promotion



The Château Frontenac in Quebec City.



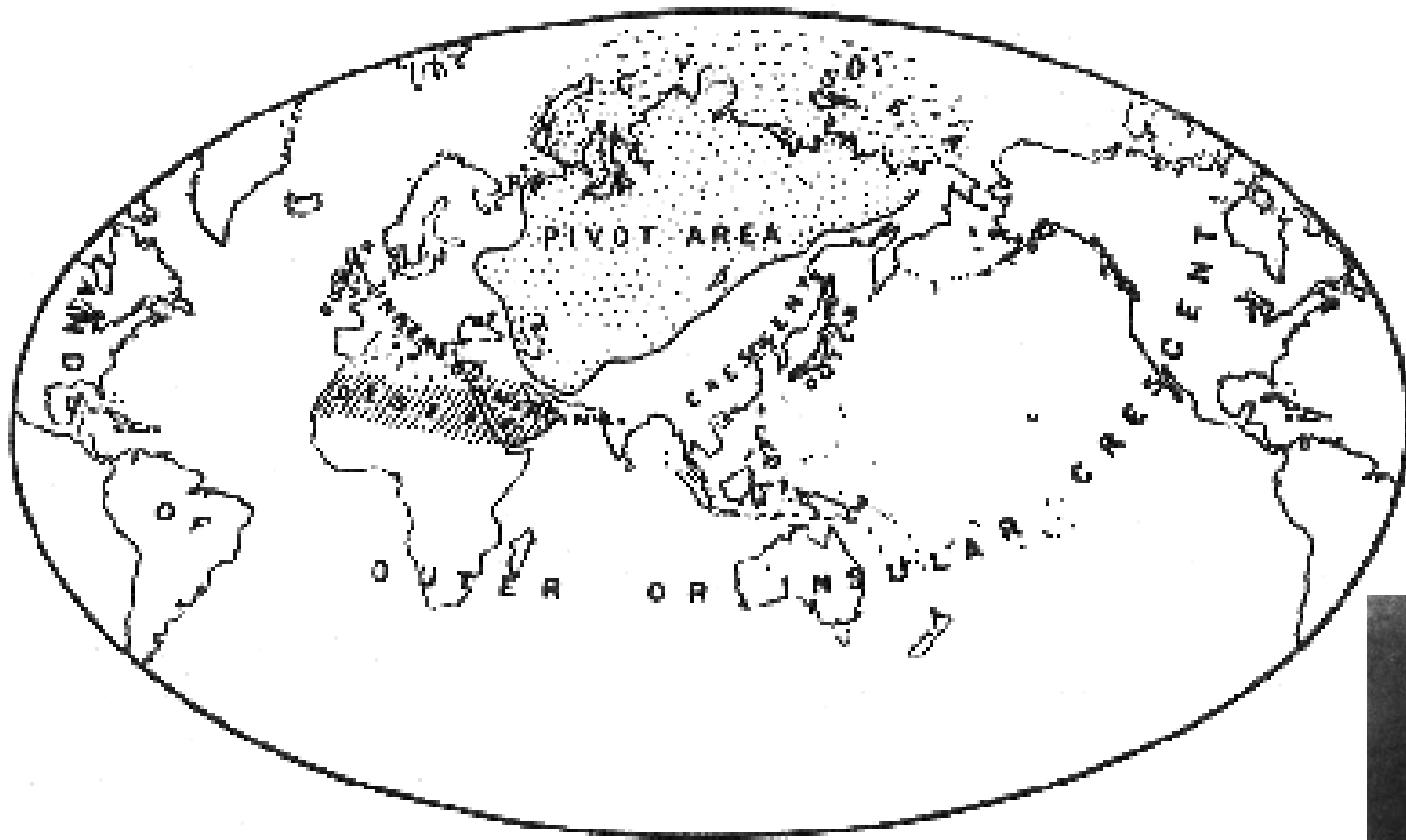
2213 - Hotel Potter, Santa Barbara, California. Road of a Thousand Wonders.



# Local Bias?

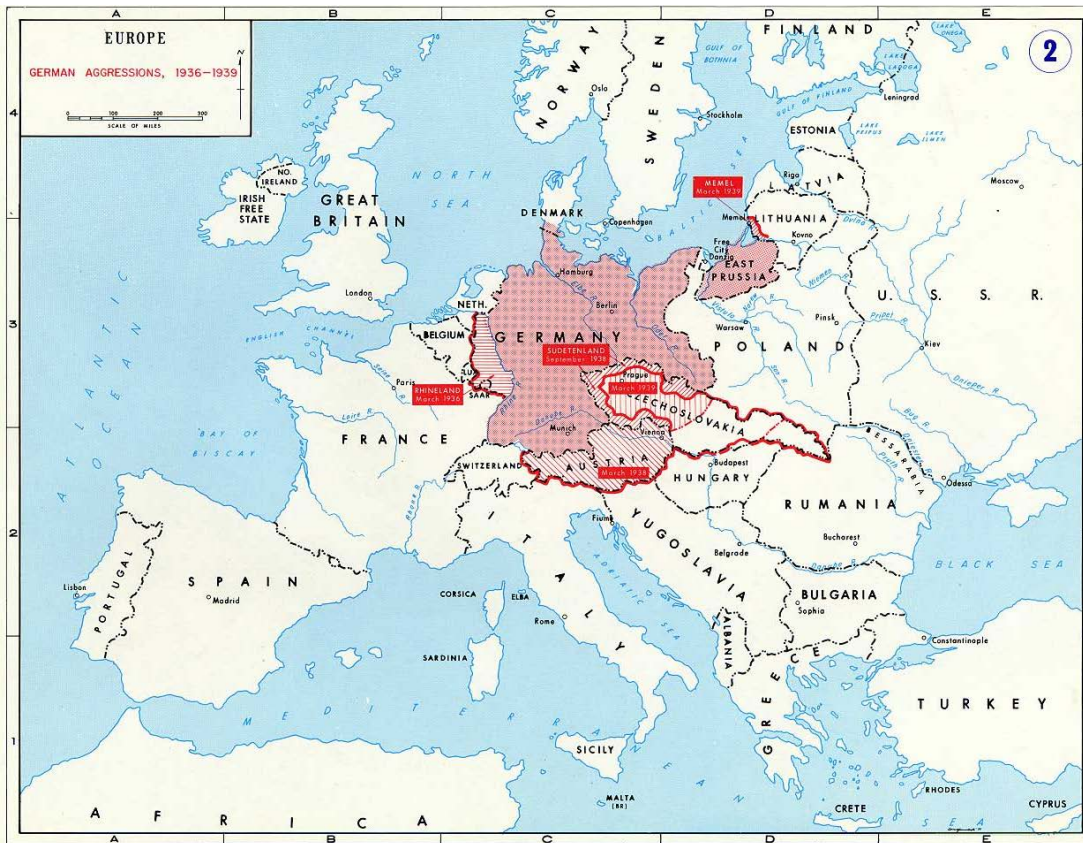


# Halford Mackinder (1861-1947)





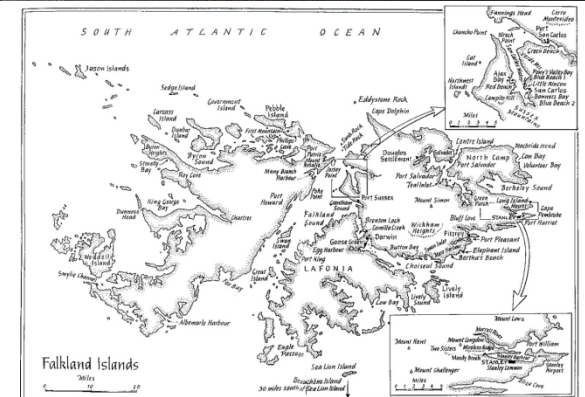
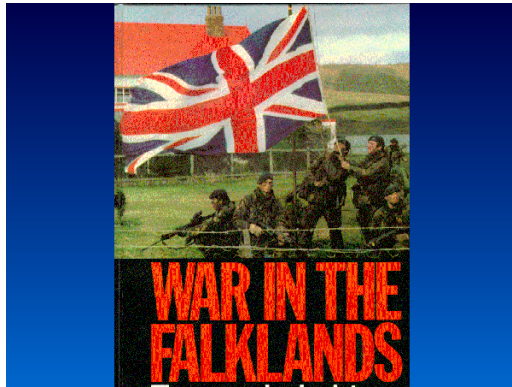
# Lebensraum



Name Calling

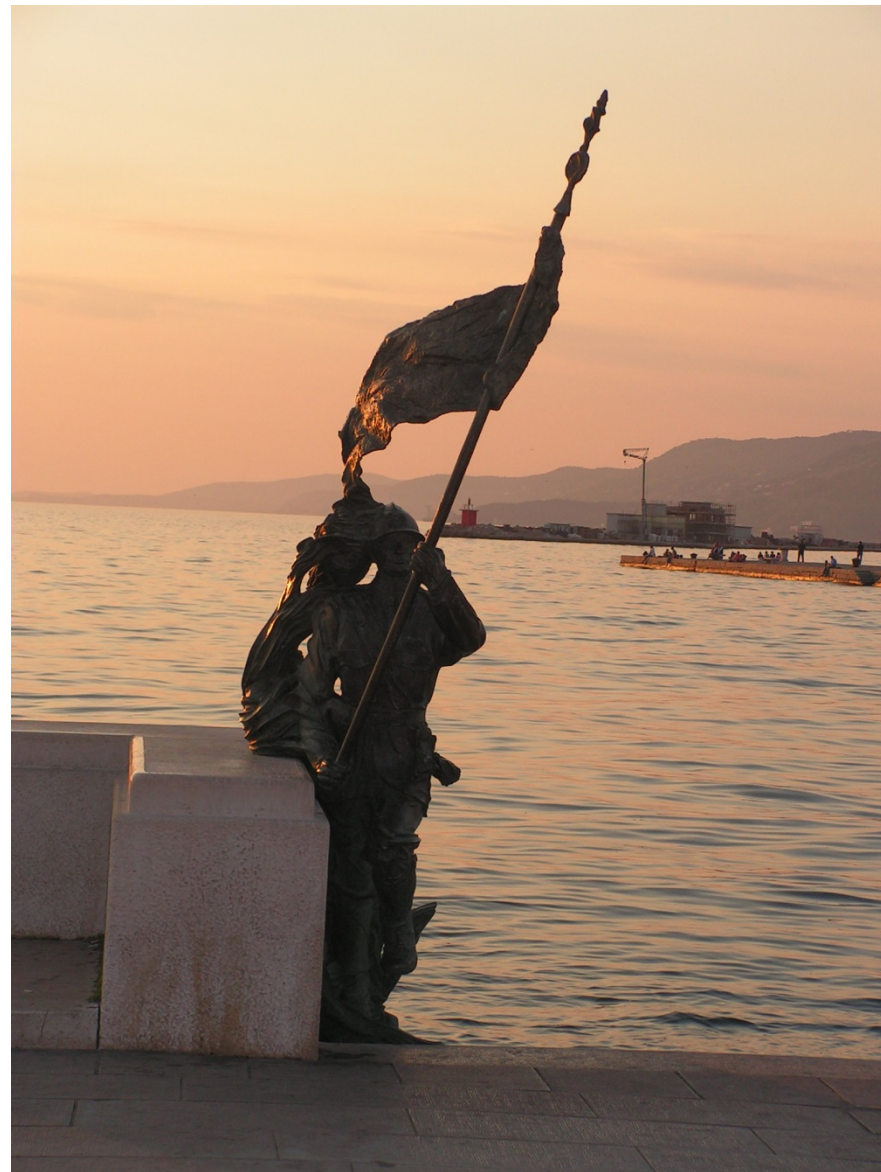


# Falkland Islands





"Troubled Trieste." In *Time*, 3 August 1953. p.28. © 1953 Time Inc.





## Redrawing the Middle East map



Ralph Peters  
solution to  
Mideast (Posted  
on Wikipedia)



June 2006 "Blood borders:  
How a better Middle East  
would look"

# Kashmir



Pakistani view



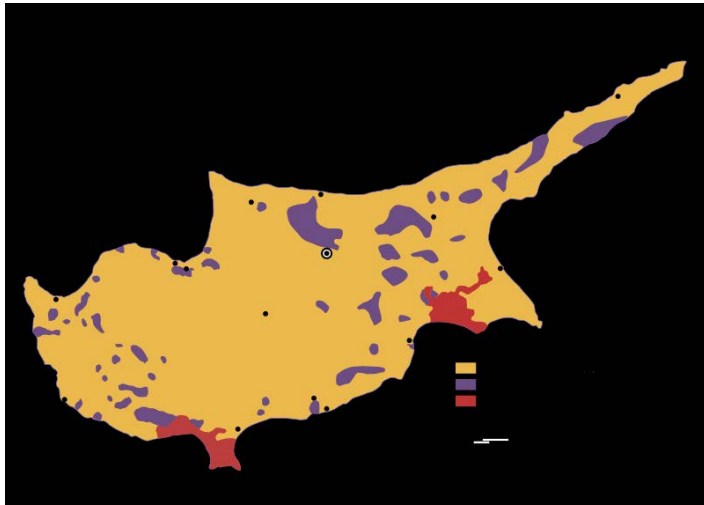
Indian view

# Greece and Kurdistan



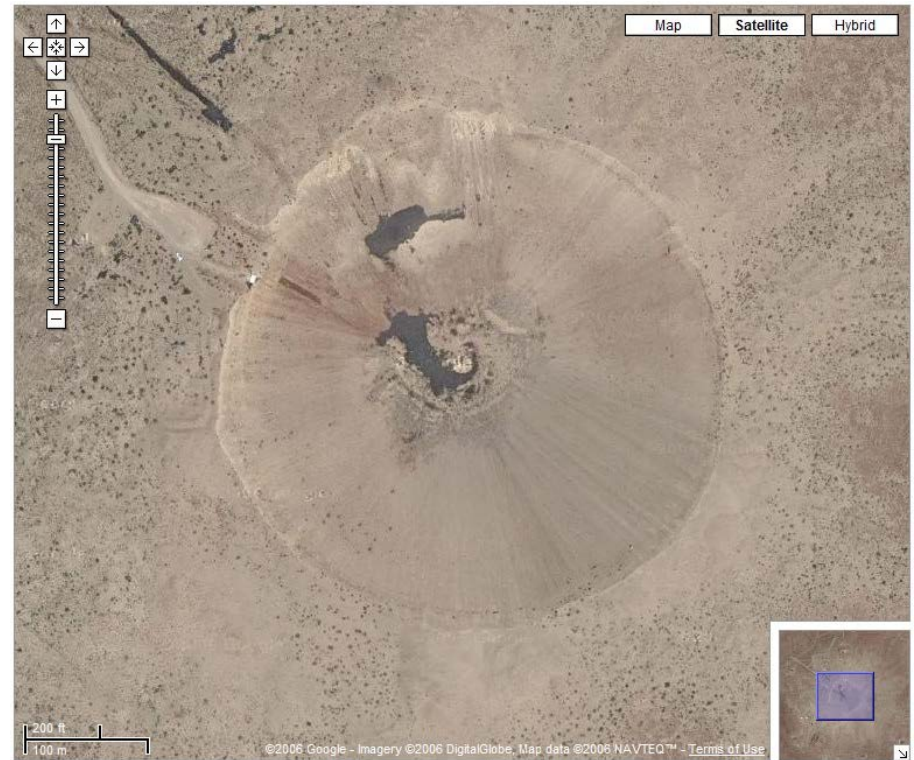


# Cyprus: 1974





# Nevada nuclear test site





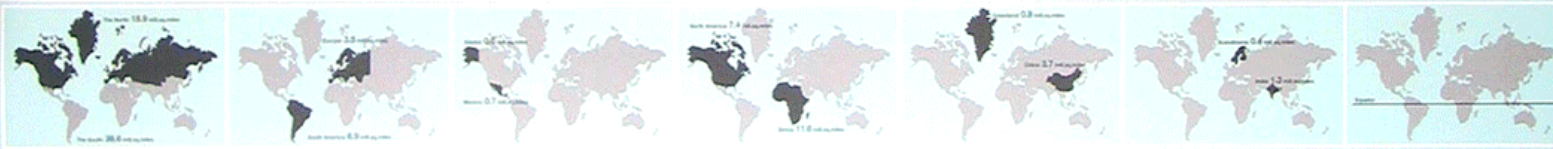
**PETERS WORLD MAP**

The map shows the world's continents and countries, color-coded as follows:

- North America:** Green (USA, Canada)
- South America:** Light Green (Brazil, Argentina, Colombia, Venezuela, Peru, Ecuador, Guyana, Suriname)
- Europe:** Orange (Russia, France, Germany, UK, Italy, Spain, Portugal, Greece, Turkey, etc.)
- Africa:** Yellow (Algeria, Libya, Egypt, Sudan, Chad, Niger, Mali, Mauritania, Senegal, Gambia, Guinea, Sierra Leone, Liberia, Ivory Coast, Ghana, Nigeria, Cameroon, Congo, Zaire, Angola, Namibia, Botswana, Zimbabwe, Mozambique, Swaziland, Lesotho, South Africa, etc.)
- Asia:** Pink (Russia, China, India, Pakistan, Bangladesh, Sri Lanka, Thailand, Vietnam, Laos, Cambodia, Myanmar, Malaysia, Singapore, Indonesia, Philippines, etc.)
- Australia:** Dark Orange
- Antarctica:** White

The map includes labels for major oceans (Atlantic, Pacific, Indian, Southern Ocean) and a scale bar at the bottom indicating distances in miles and kilometers. A small inset map of Antarctica is located in the bottom right corner.

**ODT INCORPORATED**  
P.O. Box 100, Ashburn, VA 20146  
**1-800-736-1293**  
9702 Oak Creek Way, Suite 100, Ashburn, VA 20146  
[www.petersmap.com](http://www.petersmap.com)



## THE PETERS PROJECTION

### AN AREA ACCURATE MAP



The Peters Projection World Map is one of the most stimulating, and controversial, images of the world. When this map was first introduced by historian and cartographer Dr. Arno Peters at a Press Conference in Germany in 1974 it generated a firestorm of debate. The first English-version of the map was published in 1983, and it continues to have passionate

fans as well as staunch detractors.

The earth is round. The challenge of any world map is to represent a round earth on a flat surface. There are literally thousands of map projections. Each has certain strengths and corresponding weaknesses. Choosing among them is an exercise in values clarification: you have to decide what's important to you. That is generally determined by the way you intend to use the map. The Peters Projection is an area accurate map.

[\[How to order the Peters Map\]](#) [\[Table of Contents\]](#) [\[Next\]](#)

SHARE   

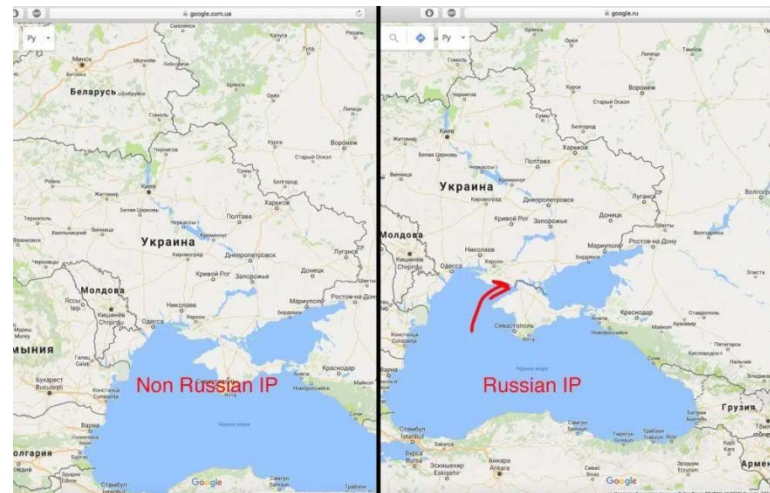
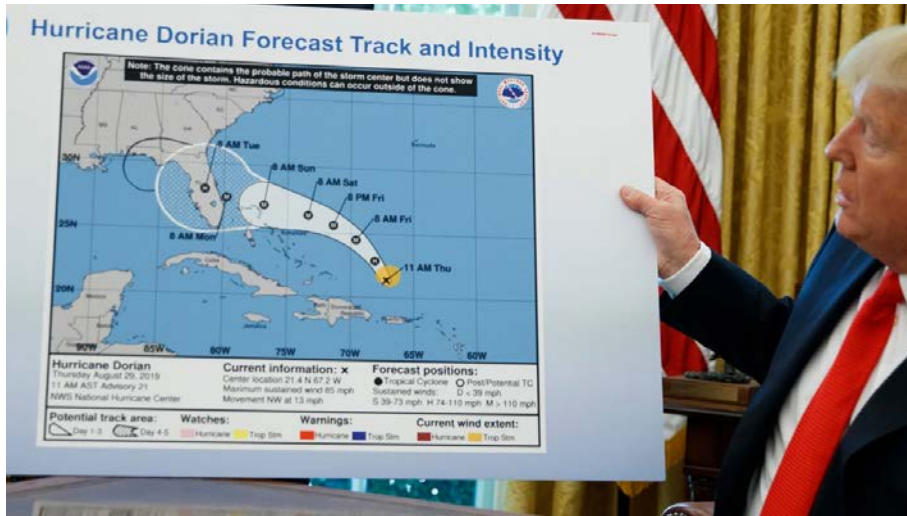


# Easter Eggs

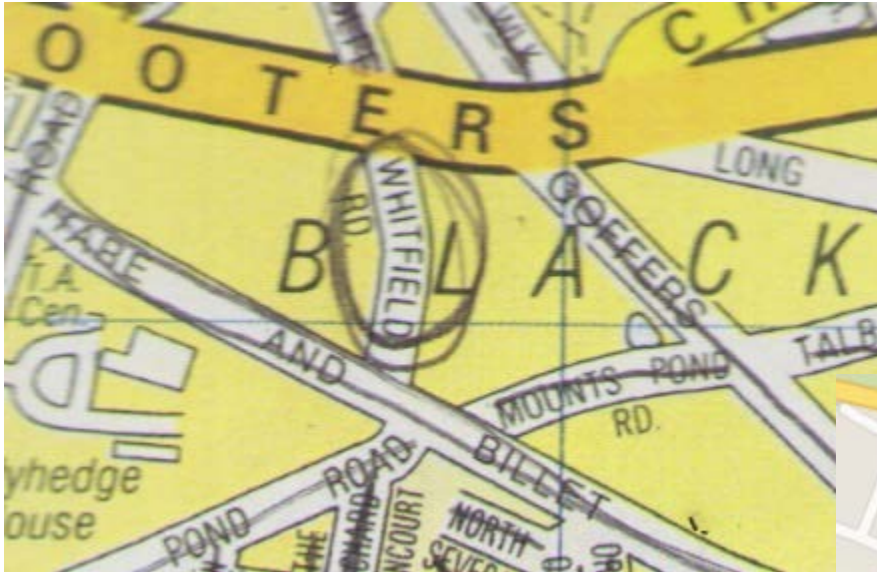




# Deliberate Errors



# Cartographic Traps



# US Examples



1978–79 State of Michigan map showing Goblu and Beatosu, OH



# US Copyright Law

- Since 1992 trap streets are not copyrightable under the federal law of the United States
- Nester's Map & Guide Corp. vs. Hagstrom Map Co. a United States federal court found that copyright traps are not themselves protectable by copyright
- "[t]o treat 'false' facts interspersed among actual facts and represented as actual facts as fiction would mean that no one could ever reproduce or copy actual facts without risk of reproducing a false fact and thereby violating a copyright ... If such were the law, information could never be reproduced or widely disseminated."

# Cartographic ethics

- Producer vs. consumer responsibility
- Editing and error catching
- Cartographic traps
- “Best available data”
- All maps contain uncertainty but hold power
- All map design decisions are partly subjective
- A map is a set of errors that have been agreed upon