

Map Projections



Agenda:

1. Random Maps
2. What Are Continents Video
3. Map Analysis Stations

Reminders:

- Turn in your Early Humans Article Homework to the basket!
- HW: *Why is North Always Up?*
 - Due: Monday (9/16)
- Unit 1 Quiz Monday!

LT: I can compare and contrast different map projections in order to analyze different perspectives by completing the map stations activity and handout.

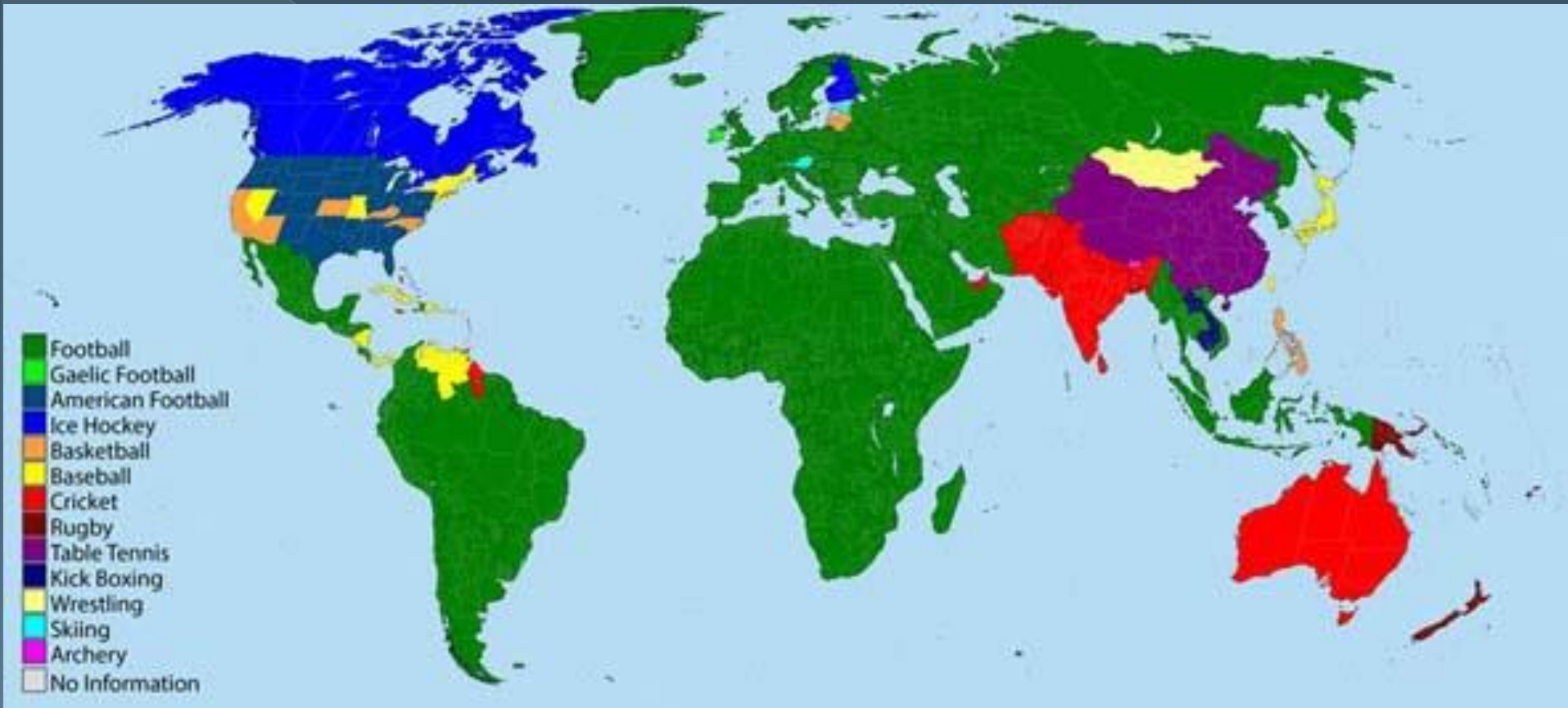
Is this map correct? Why or why not?



Most famous brand from each state



Most popular sports in the world



Map of the world in proportion to population



The current world as Pangea



Countries not using the metric system



What are Continents?

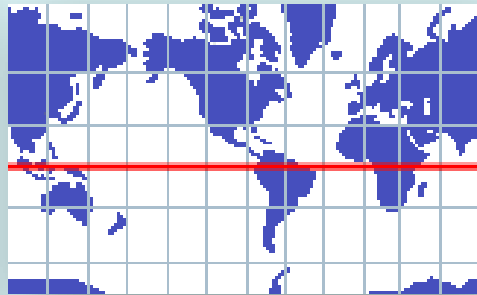
- ⦿ How many continents are there?
- ⦿ Who decided this?
- ⦿ Lets look at continents as we know them today from a different perspective...
 - > [What are continents?](#)

What are Projections?

- Maps are called projections because map-makers have to project a 3-D surface onto a 2-D map.
- A map projection is a way to represent the curved surface of the Earth on the flat surface of a map.



- ⦿ All map projections distort the surface in some fashion
- ⦿ All maps have a bias and are told from a unique and specific perspective
- ⦿ A good globe can provide the most accurate representation of the Earth.
 - BUT... a globe isn't practical for many of the functions for which we require maps.



Tangent at a selected line



Secant along two lines



Map Stations

- ◎ There are 6 stations in your packet
 - > Around the room are different stations with Maps or Globes
- ◎ We will have about 5 minutes at each station.
- ◎ If you do not finish the packet in class, then it is homework.
 - > Due Monday for a stamp.
- ◎ Make sure you are answering the questions of the appropriate map!
 - > You might not start at station 1...



WHY THIS NEW WORLD MAP?

Most traditional maps of human habitation have brought us to the knowledge of a new age. It is an age marked by scientific and technological advances, by a growing awareness of a growing interdependence of all nations and all peoples.

Such a moment in history demands that we look critically at our understanding of the world. This understanding is based, to a significant degree, on the work of map-makers of the age when Europe dominated and exploited the world. Surprisingly, maps still reflect that European bias.

The new map, the work of the German historian Arno Peters, provides a helpful corrective to the distortions of traditional maps. While the Peters Map is superior in its portrayal of proportions and areas, its importance goes far beyond questions of geographic accuracy. It brings us to a new world view of space.

Consider characteristics of the Peters Map:


Equal Area
This new map shows all areas—whether countries, continents or oceans—according to their actual size. No artificial comparison necessary.

Equal Area
As North-South lines run vertical on this map, true geographic points can be seen in their precise directional relationship.

Equal Proportions
All land areas show the same size. Thus the relationship of any land on the map to its distance from the equator or to the angle of the sun can be easily determined.

Fairness to All Peoples
By setting aside all countries of less than one and a half million, this map shows each one its actual position in the world.

In this complex and interdependent world in which the nations now live, the peoples of the world deserve the accurate, readable portrayal of their world. The Peters Map is that map for our day.

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Why is North Always Up?

- ◎ Read the excerpt from the Chicago Reader.
- ◎ A reader of the newspaper submitted the question, “Why is North Always up?”
- ◎ Read and summarize the journalists response in a paragraph.
 - > Topic sentence (main idea of reading)
 - > Supporting details (important points the author includes to support their topic)
 - > Concluding idea (don't leave me hanging)
- ◎ Homework: Due Monday, 9/16

ORBIS TERRAE COMPENDIOSA DESCRIPTIO

Quam et Magni Viri Gerardi Mercatoris Domino Richardo Greshamographo ac ceterarum bonarum artium magistro ac auctori summo in veteris amicitiae ac familiaritatis verisimili Ratiholio Mercatorum facti curavit A.M.D.LXXV.

