

Map Skills Review

Geography is the study of the Earth and its People



Why are globes better than maps?



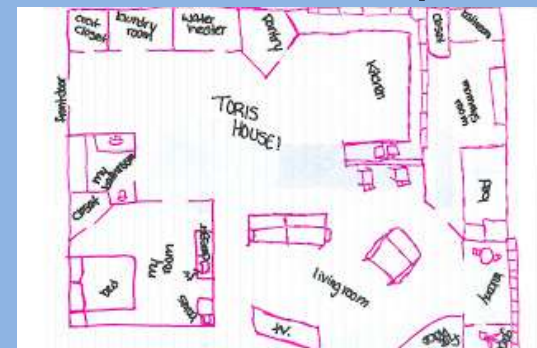
-They are more accurate because they are shaped like the Earth.

Why are maps better than globes?



-More convenient (fold up)

-They show much more detail (map of your house, map of GP, map of a park)

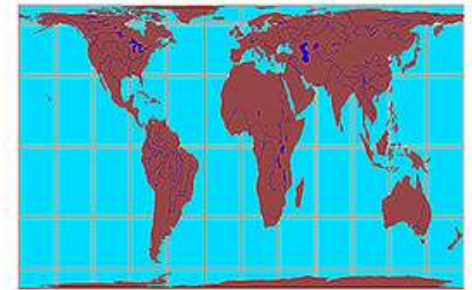


All maps have **Distortion**.

1. S **Shape**
2. S **Size**
3. D **Distance**
4. D **Direction**



Mercator Projection



Gall-Peters Projection



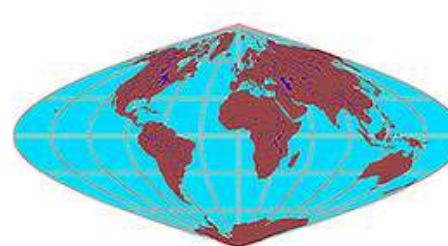
Miller Cylindrical Projection



Mollweide Projection



Goode's Homolosine Equal-area Projection



Sinusoidal Equal-Area Projection



Robinson Projection

Three types of maps:

1. Physical maps show elevation, landforms



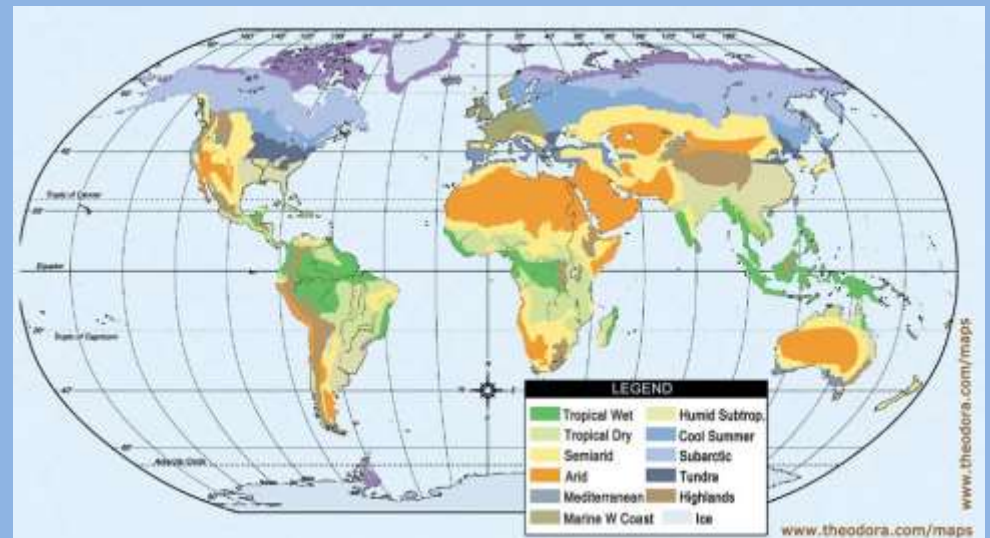
2. Political maps show borders, cities,

political units



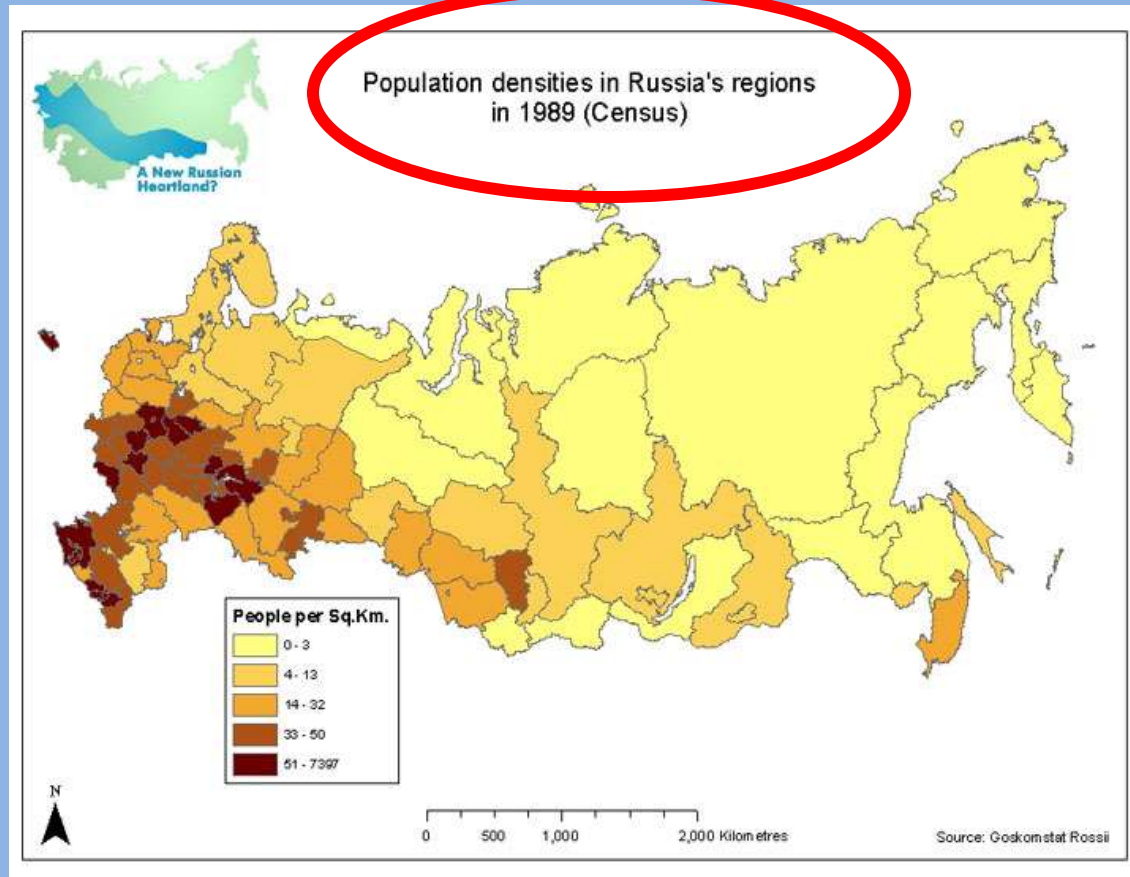
3. **Thematic** maps show specific information often on a single topic.

Examples: **Civil War Battles, Museums in Chicago, Population maps, Weather maps**

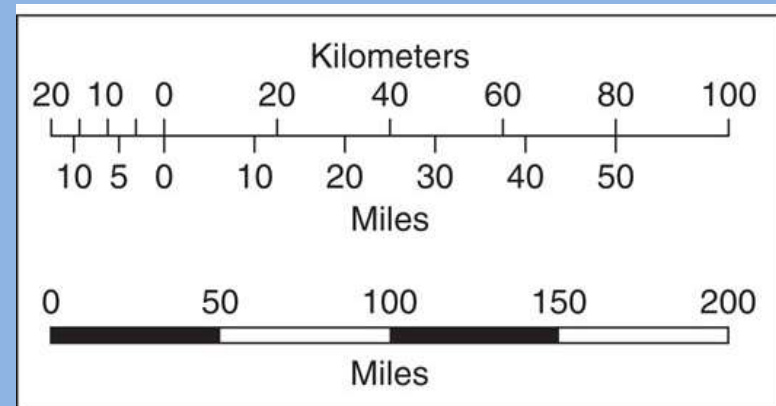


5 Parts of a Map:

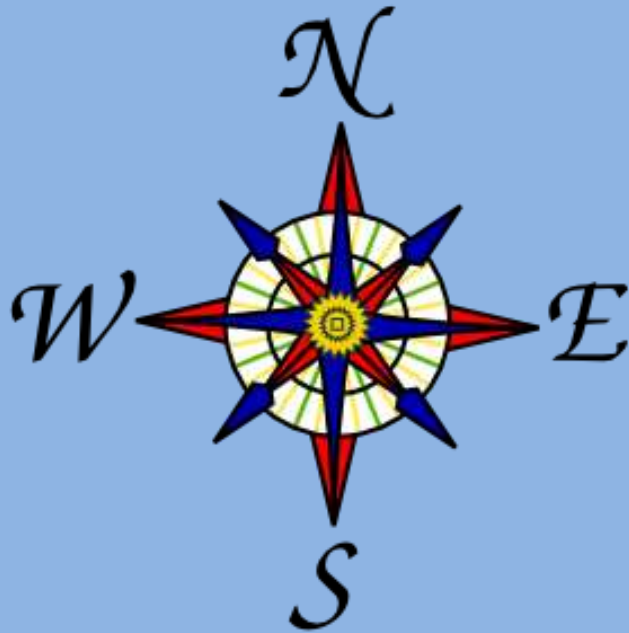
1. Title (What is the map)



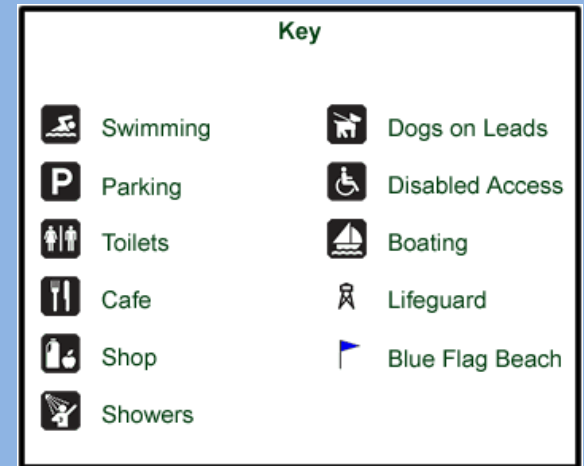
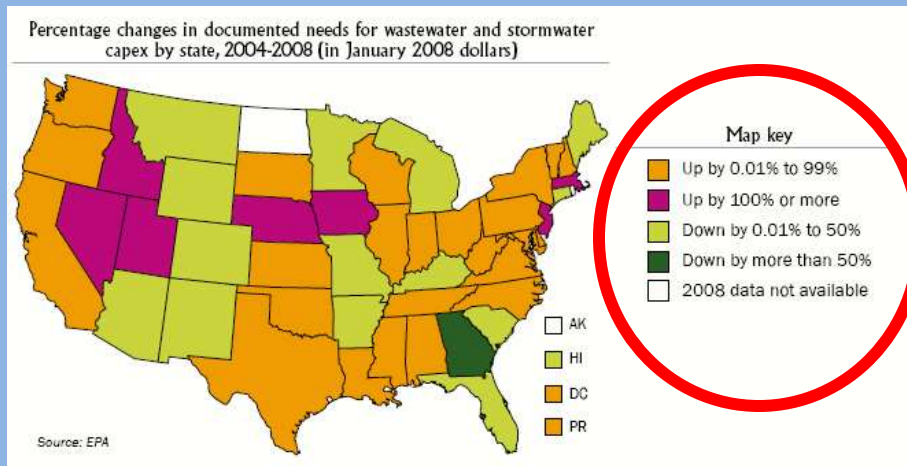
2. Scale (Distance)



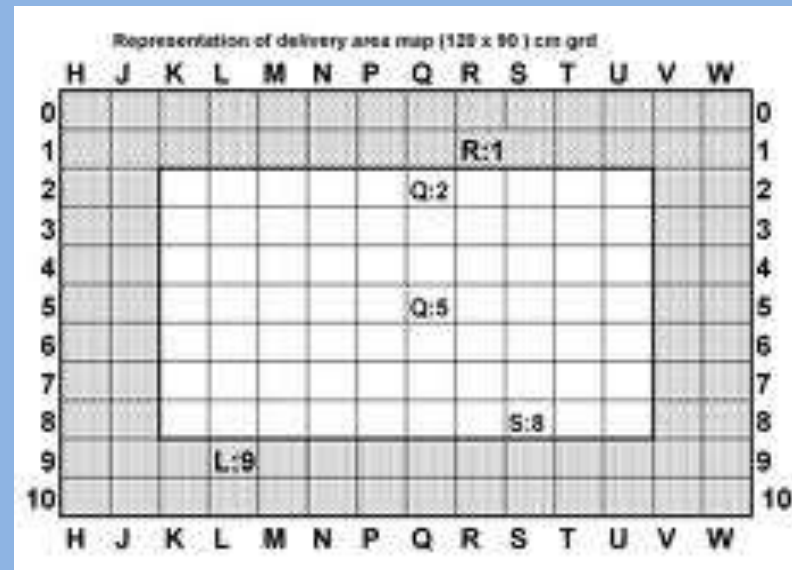
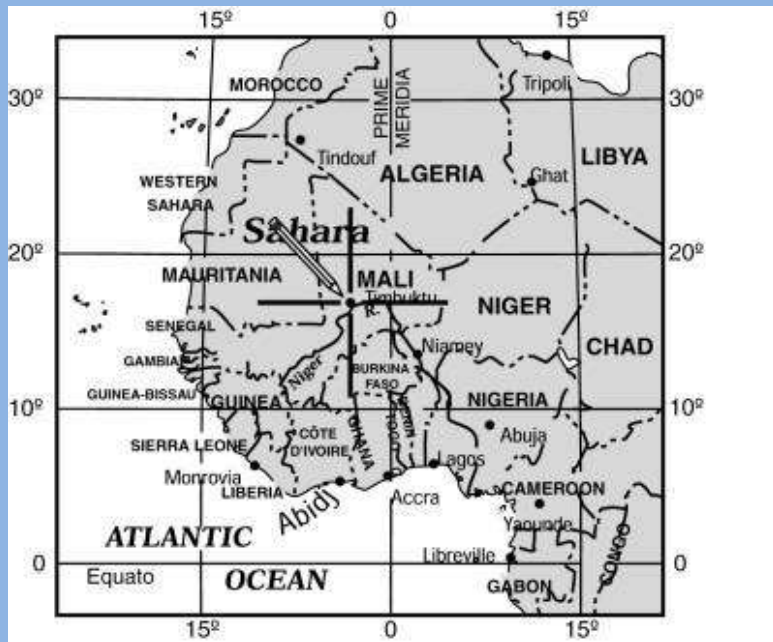
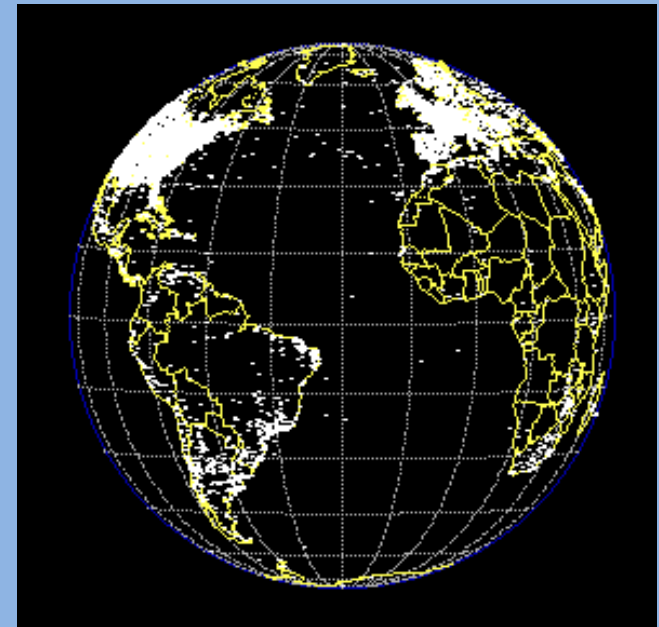
3. Compass Rose (Direction)



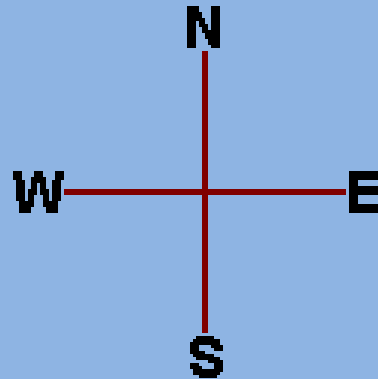
4. Key or Legend (explains symbols)



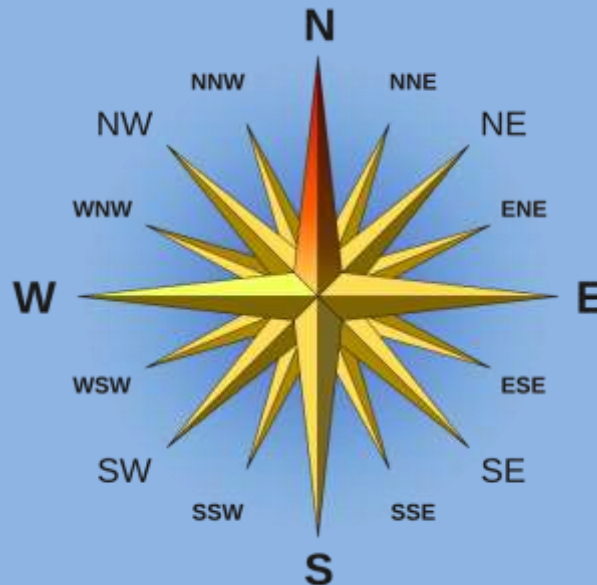
5. Grid System (location)



Cardinal Directions: north, south, east, west



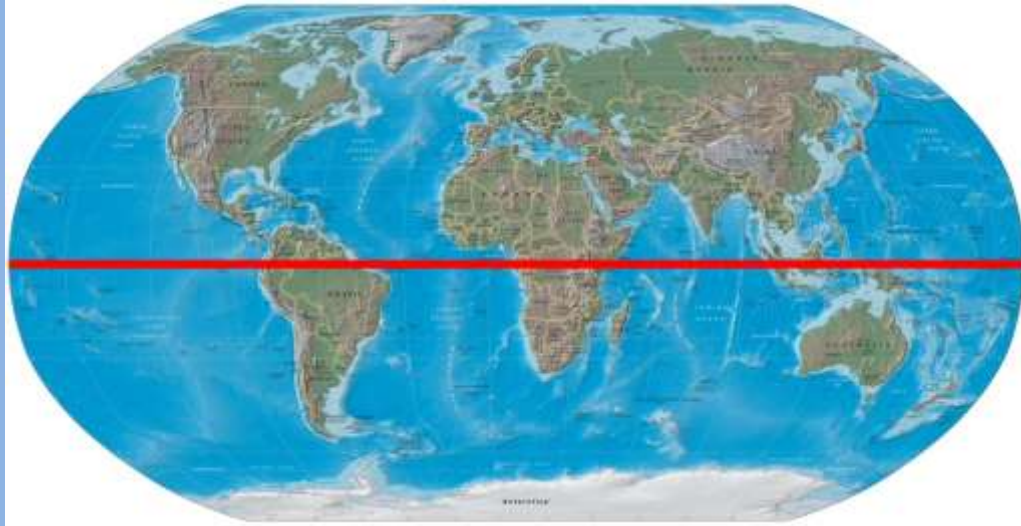
Intermediate Directions: northwest, southeast, NNW



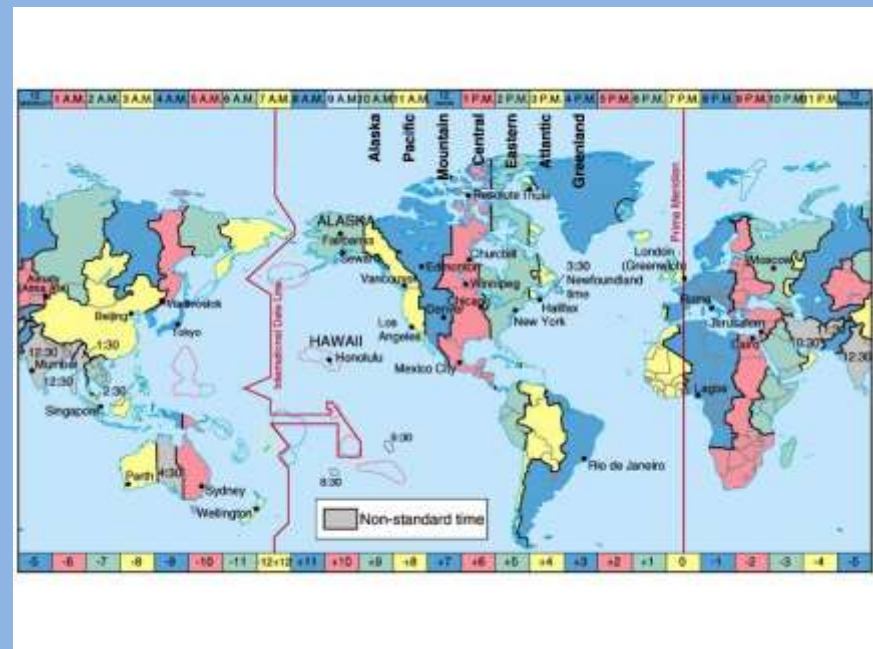
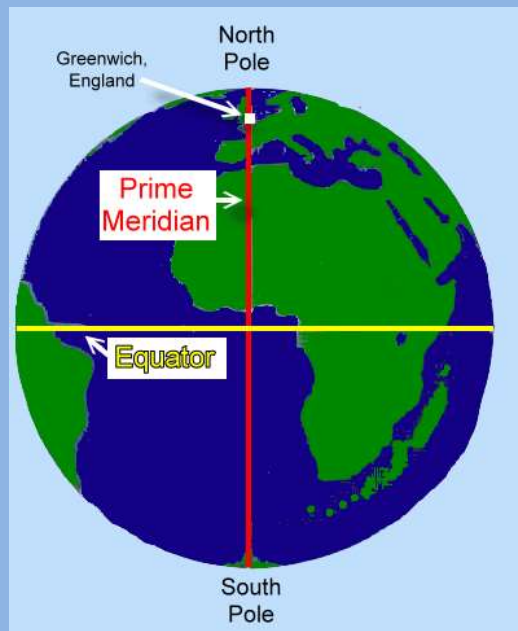
There are 4 Hemispheres:

Northern and Southern are divided by the equator.

0 degrees latitude



Eastern and Western are divided by the Prime Meridian
0 degrees longitude (Goes through Greenwich, England)
and the International Date Line
180 degrees longitude on the opposite side of the world.



Northern Hemisphere



Southern Hemisphere



Western Hemisphere



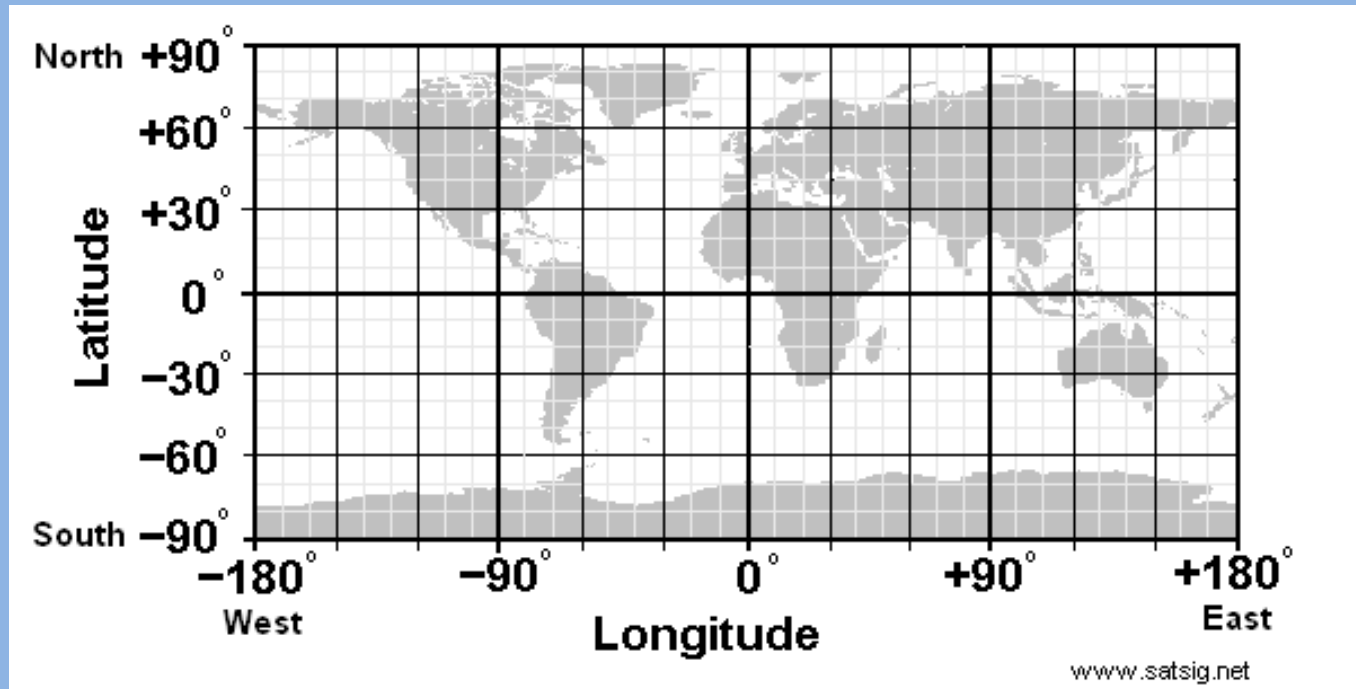
Eastern Hemisphere



Latitude and Longitude

Lines of latitude are also called Parallels

drawn — measure N, S



Lines of longitude are also called Meridians

drawn | measure E, W

ALWAYS read and write LATITUDE first ALWAYS.

28°N, 35°W

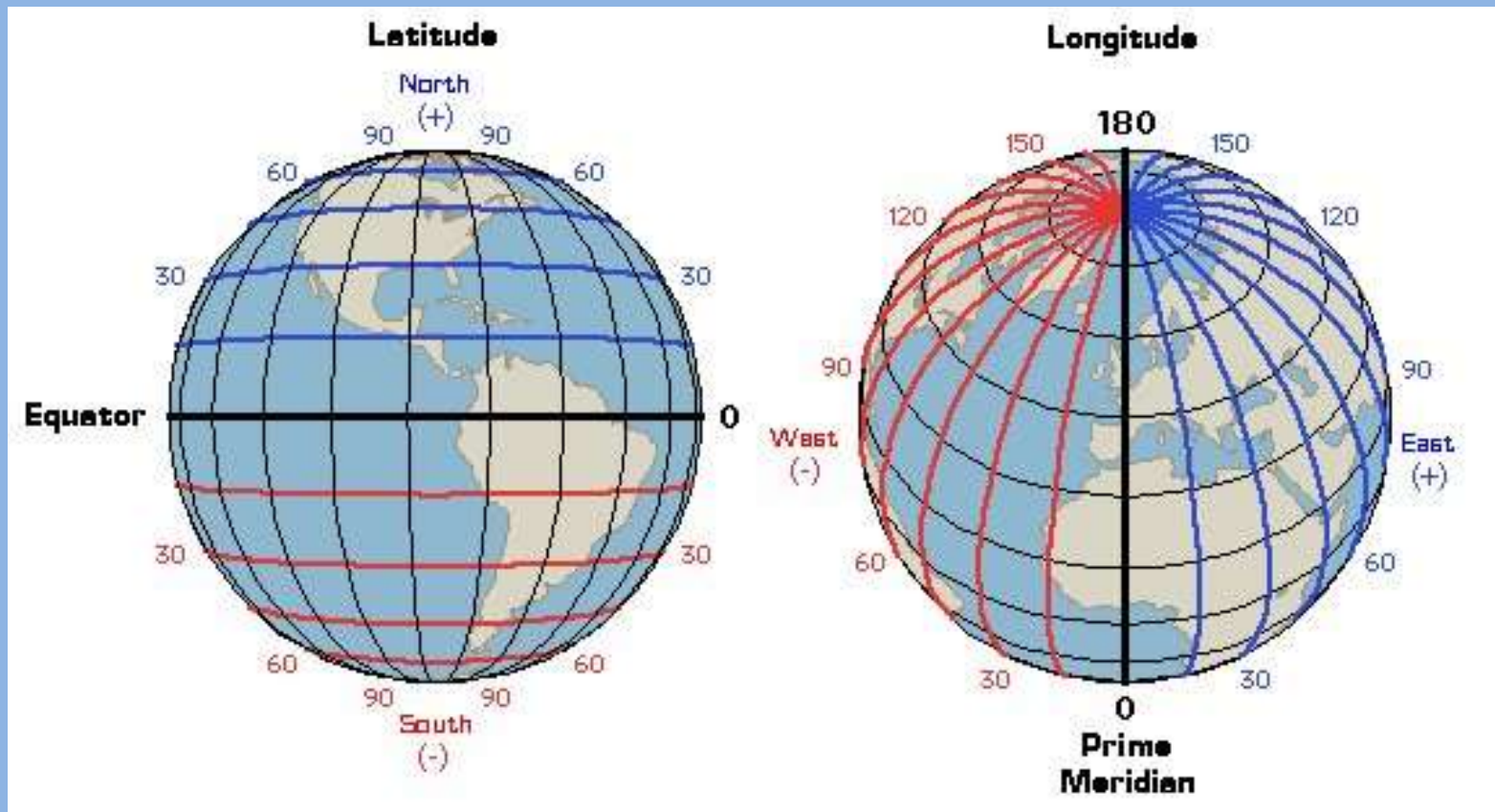
90°S, 150°E

5°S, 67°W

35°N, 49°W

Latitude goes 0 to 90 degrees north and south.

Longitude goes 0 to 180 degrees east and west.



Special Lines:

1. Tropic of Cancer: 23 ½ degrees north
2. Tropic of Capricorn: 23 ½ degrees south

-The farthest north and south the sun's DIRECT rays hit the earth. It is summer in Michigan when the sun is directly hitting the Tropic of Cancer, winter when the sun is directly hitting the Tropic of Capricorn.

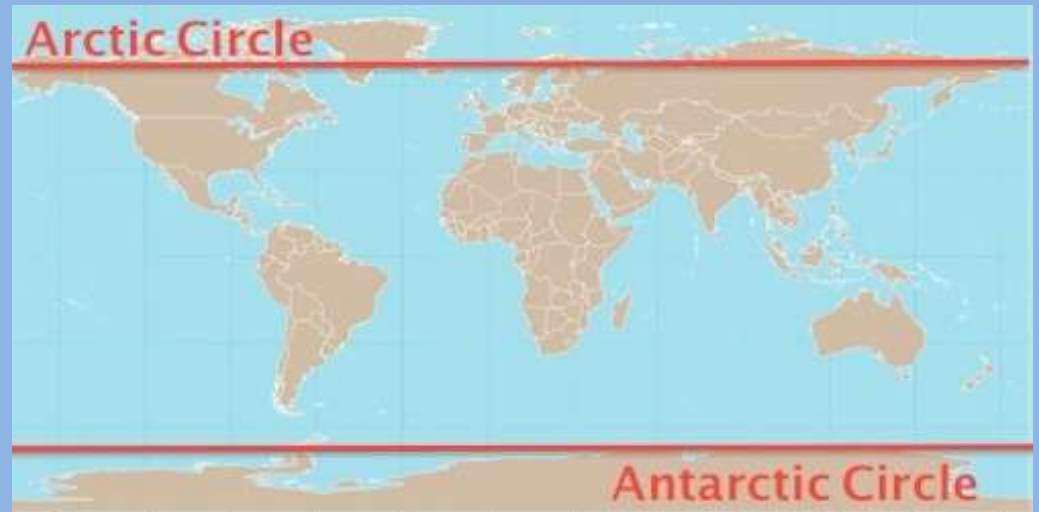
-It is Spring and fall when the sun is on the equator.



3. Arctic Circle: 66 ½ degrees north

4. Antarctic Circle: 66 ½ degrees south

-The farthest north and south ANY of the sun's rays hit the earth. It is dark for several months of the year for 24 hours a day in the Arctic Circle and light 24 hours a day in the Antarctic Circle. And then it switches.

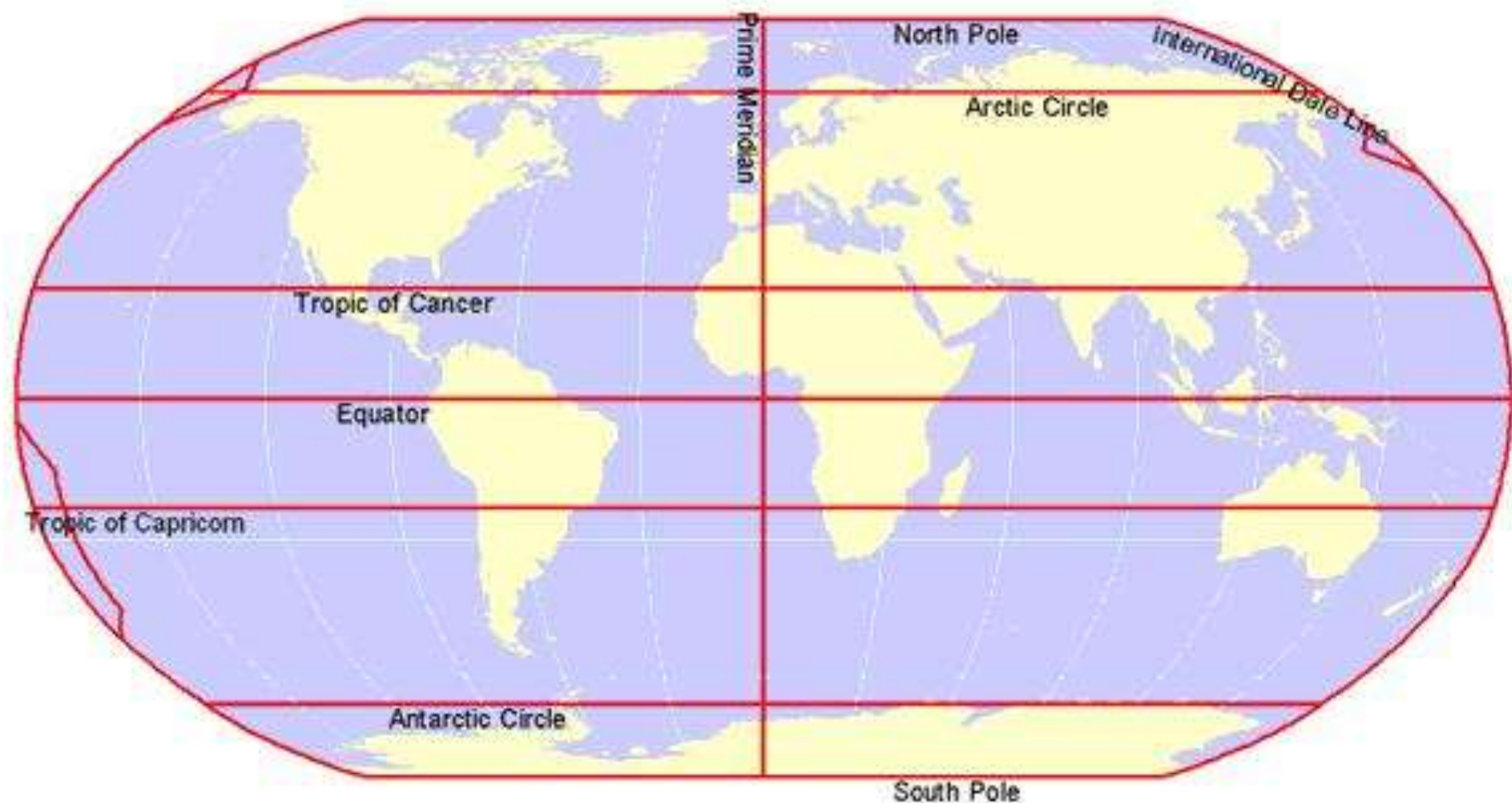




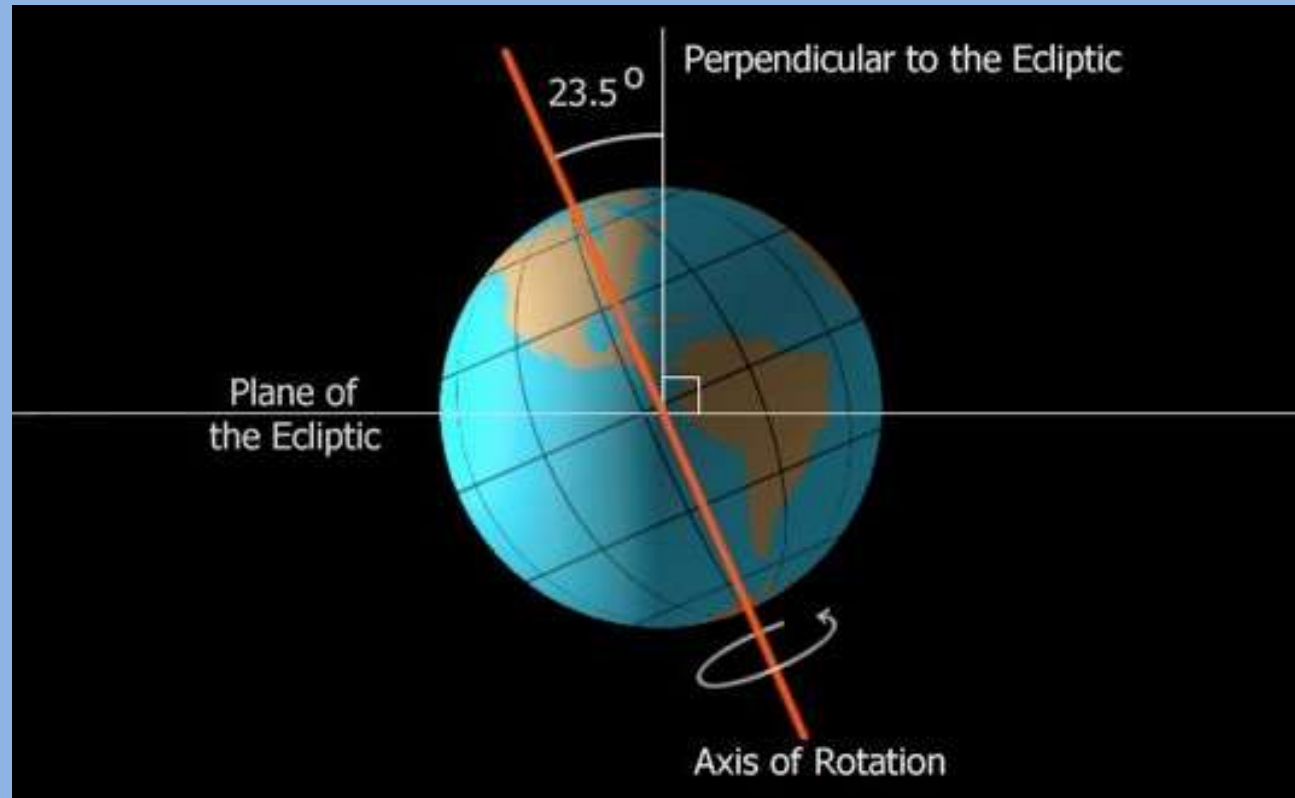


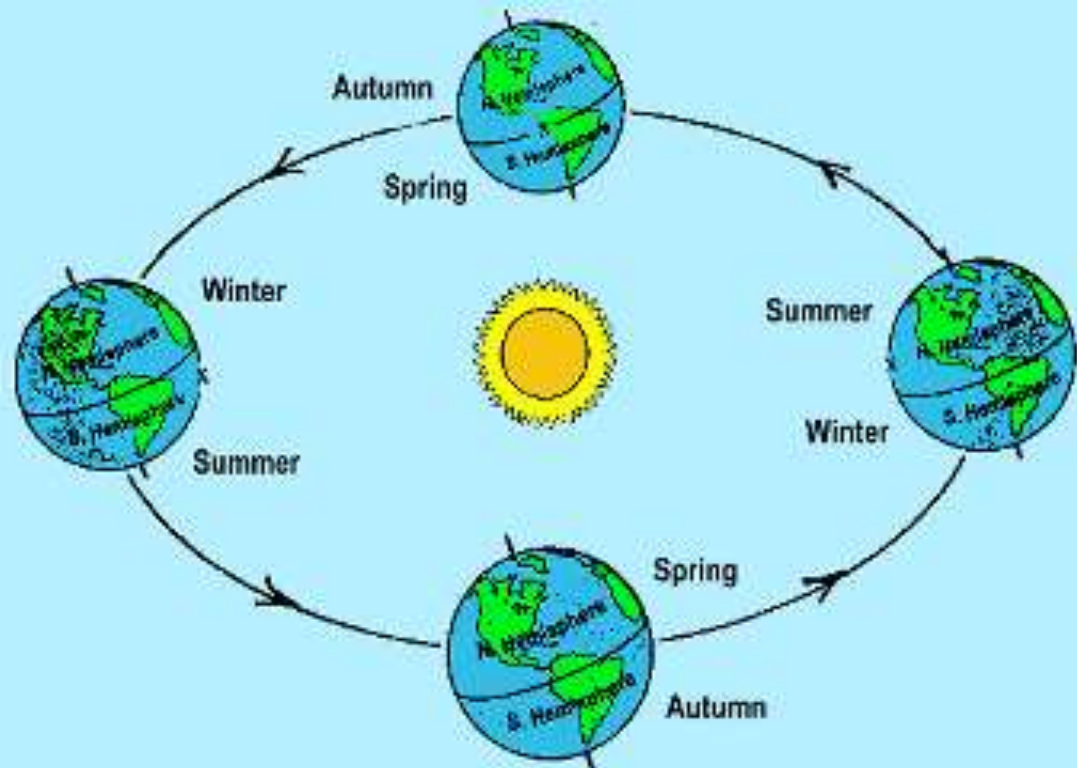
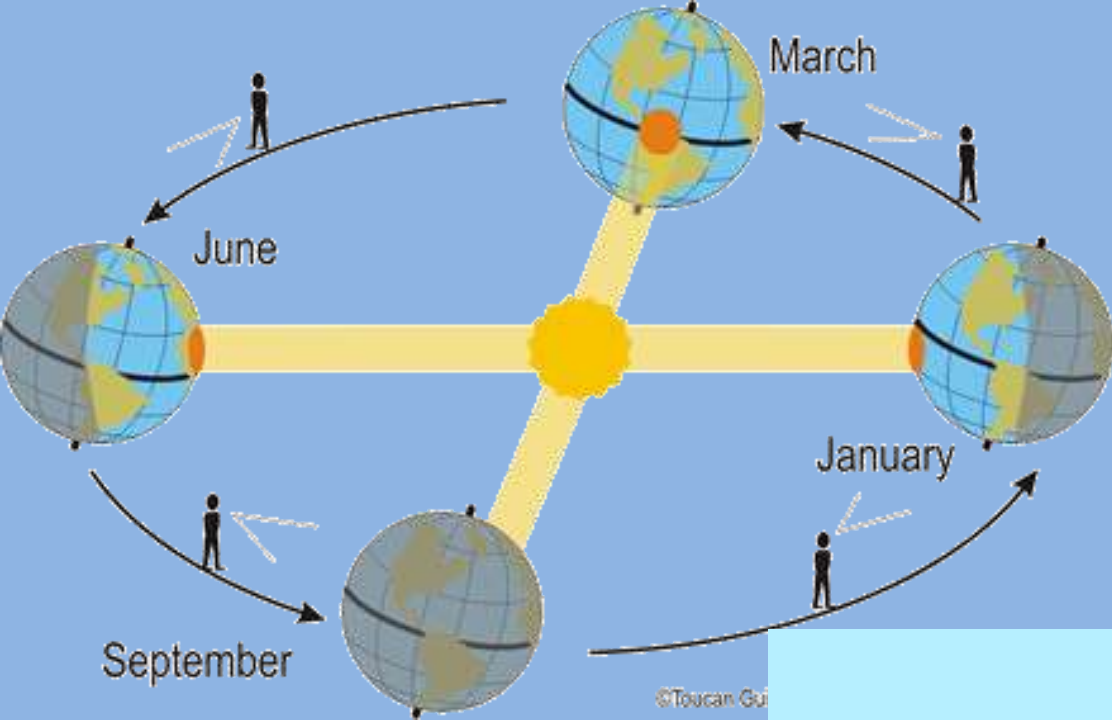
Midnight in the arctic

http://www.youtube.com/watch?v=RdTduSstXVM&feature=related&safety_mode=true&persist_safety_mode=1&safe=active 1:20 time laps video

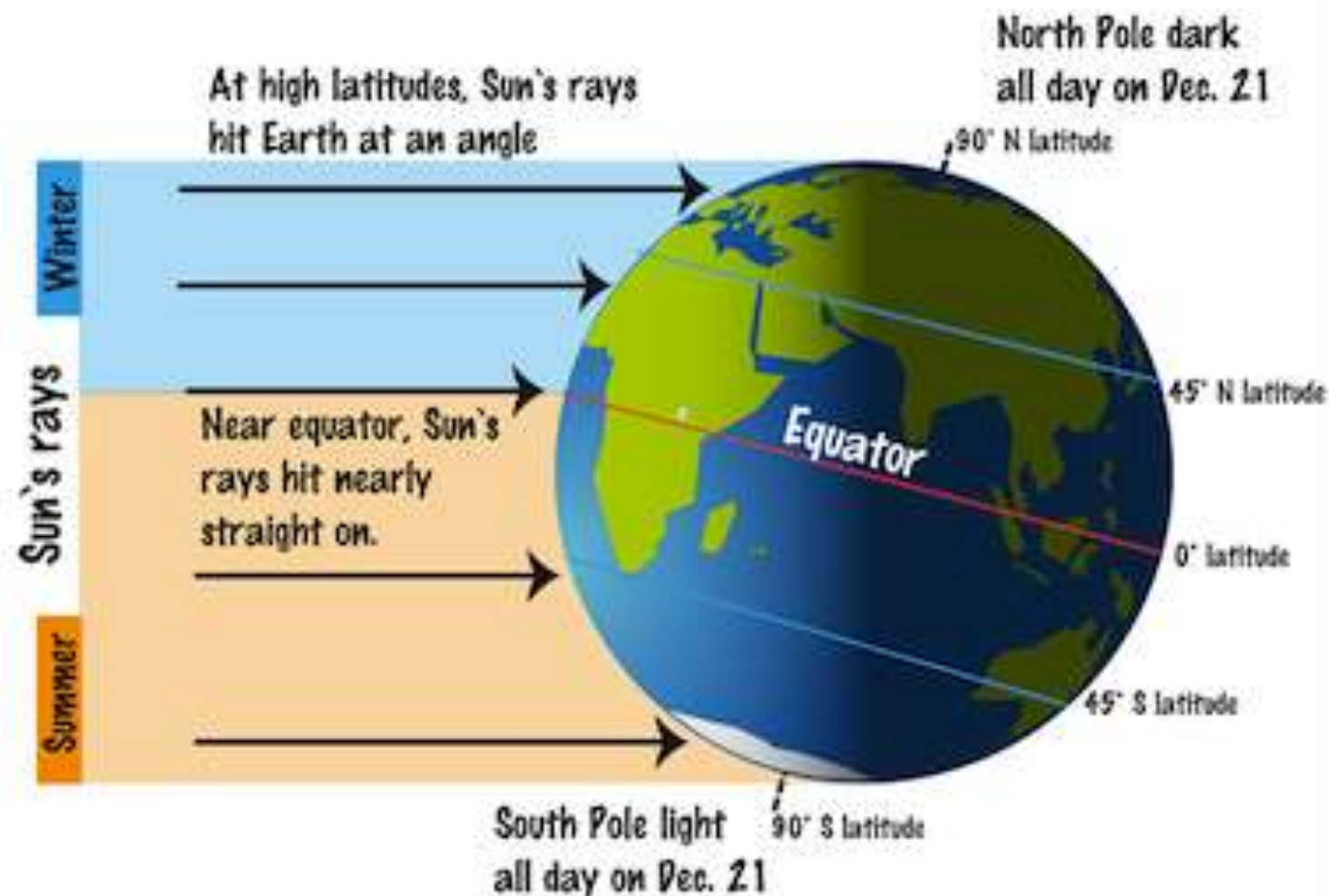


The Earth is tilted at **$23\frac{1}{2}$** off its axis which creates our **seasons.**





Earth at Winter Solstice (~Dec. 21)

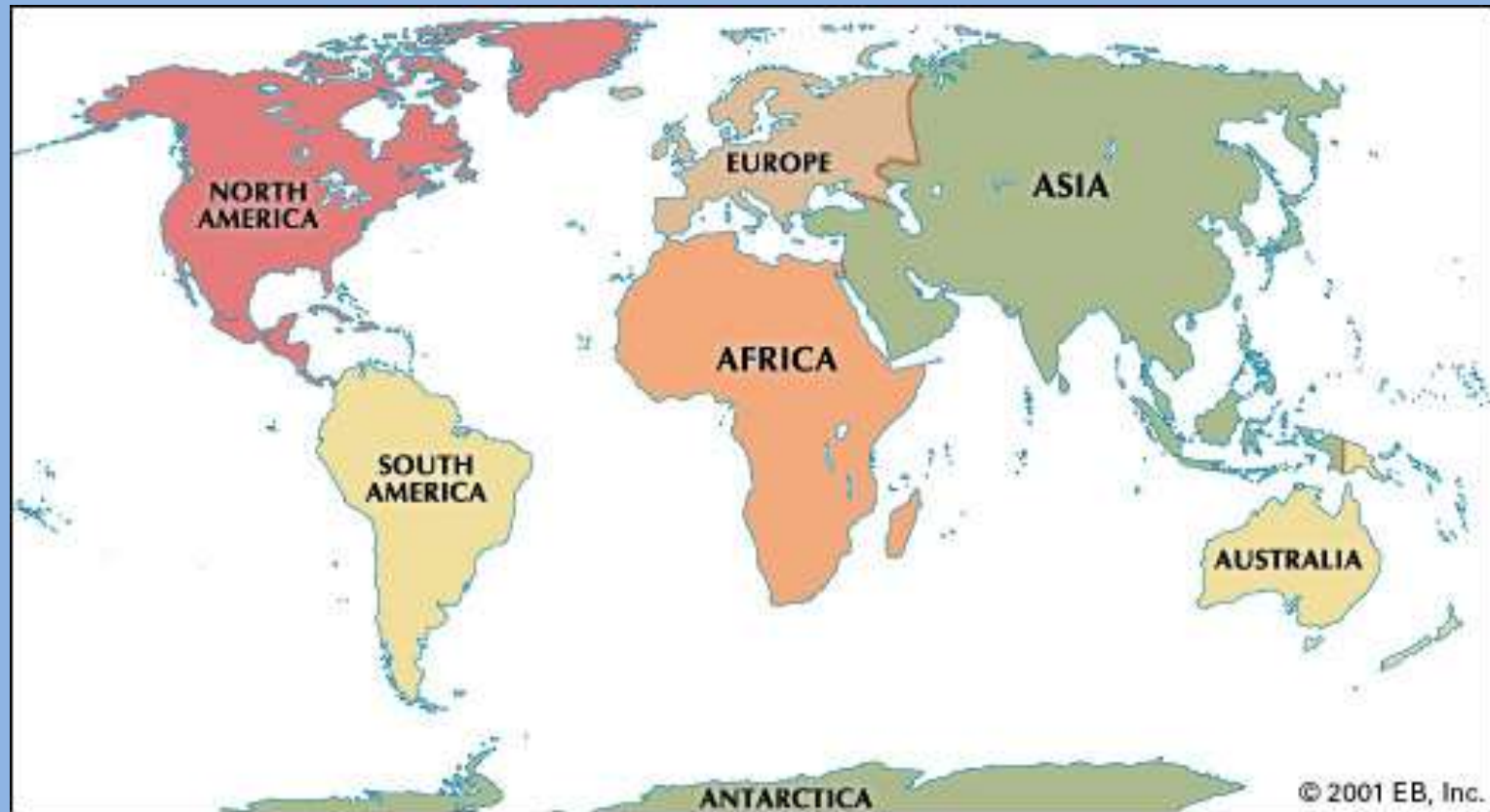


There are 7 continents.

- North America
- South America
- Africa
- Asia
- Antarctica
- Australia
- Europe



-Continents are the largest land masses in the world.



-Continents are not countries and have no political leaders.



-Continents are NOT considered islands even though they are mostly surrounded by water.



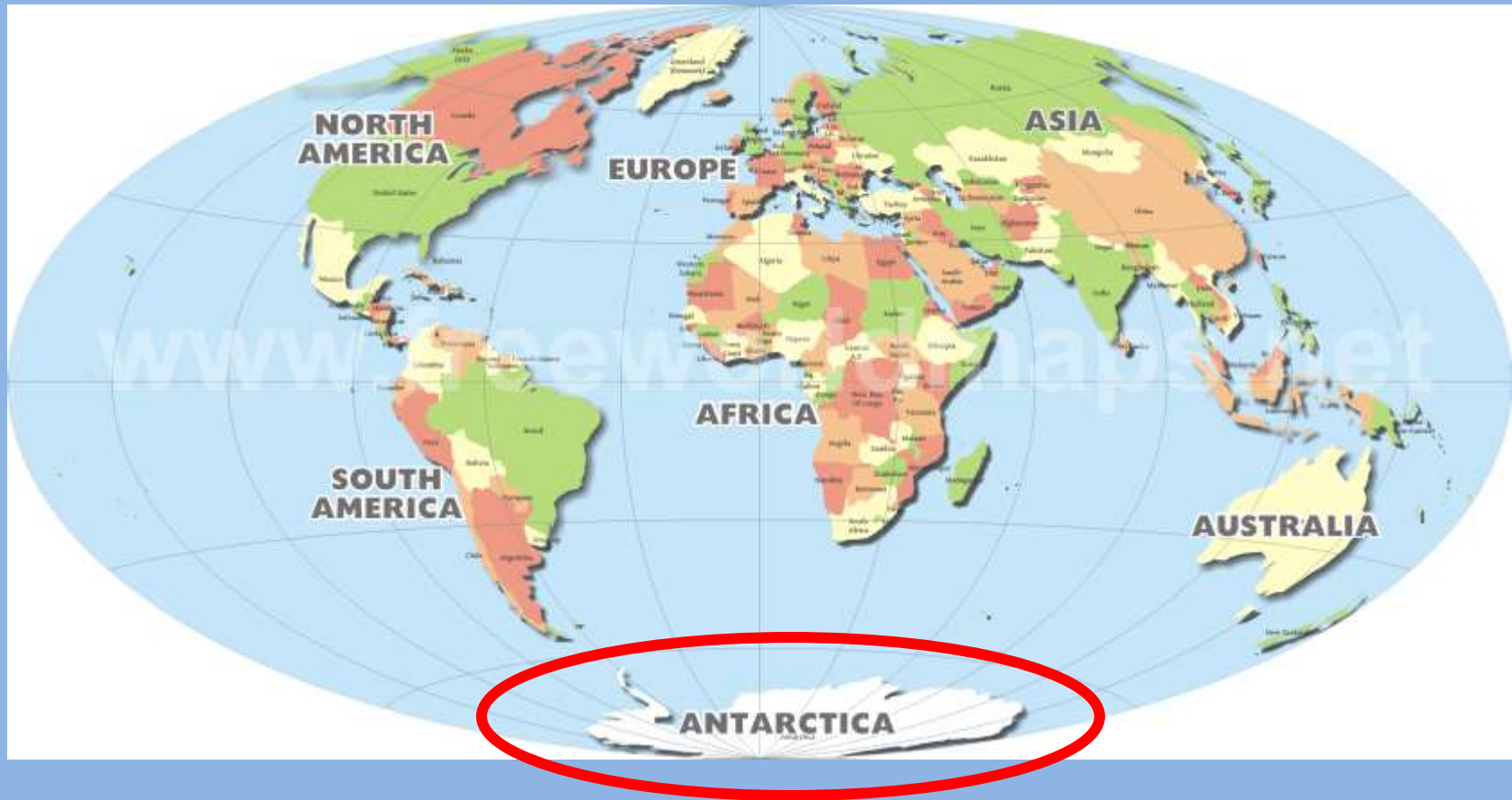
Australia is the only continent that is a continent AND a country (and it is not an island).



Greenland is the largest island in the world even though it is smaller than Australia. This is because it is NOT a continent.



-Antarctica is the only continent that has no **countries** on it.



Countries are political units with borders and political leaders.



There are 5 oceans in the world.

- **Atlantic**
- **Pacific**
- **Arctic**
- **Indian**
- **Southern new!!**



-There really is only one large ocean covering the Earth, but we have divided it up into regions to help with location.

Where do YOU live?

Hemisphere: **Northern AND Western**

Continent: **North America**

Country: **United States of America**

County: **Wayne**

City: **Grosse Pointe or Harper Woods**
(not Detroit)