THE 5 THEMES OF GEOGRAPHY

THE FIVE THEMES OF GEOGRAPHY

- Location
- Place
- Human-Environment Interaction
- Movement
- Regions

LOCATION Where are we?

Absolute Location

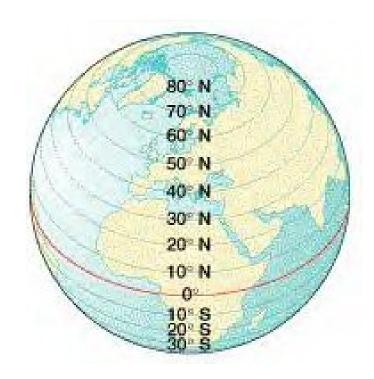
- A latitude and longitude (global location) or a street address (local location).
 - Paris France is 48°
 North Latitude and 2°
 East Longitude.
 - The White House is located at 1600 Pennsylvania Ave.

Relative Location

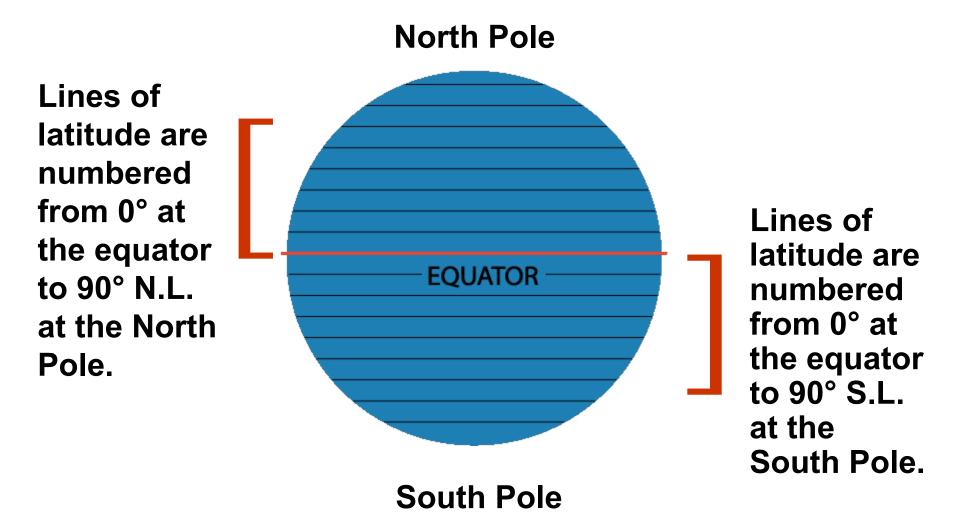
- Described by landmarks, time, direction or distance. From one place to another.
 - Go 1 mile west on main street and turn left for 1 block.



Latitude lines run east/west but they measure north or south of the equator (0°) splitting the earth into the Northern Hemisphere and Southern Hemisphere.



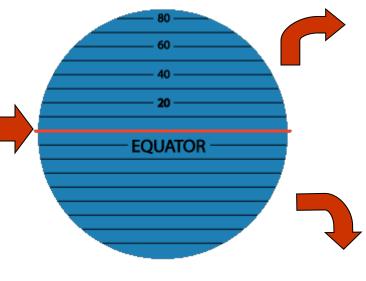
Latitude



Latitude

The North Pole is at 90° N

The equator is at 0° latitude. It is neither north nor south. It is at the center between north and south.



40° N is the 40° line of latitude north of the equator.

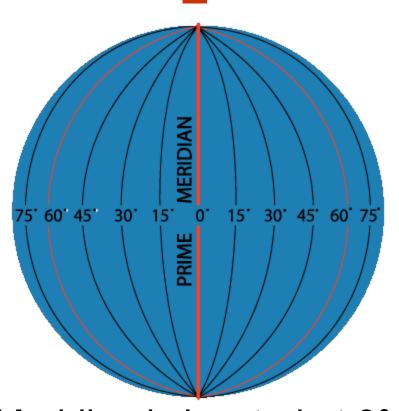
The South Pole is at 90° S

40° S is the 40° line of latitude south of the equator.

Longitude

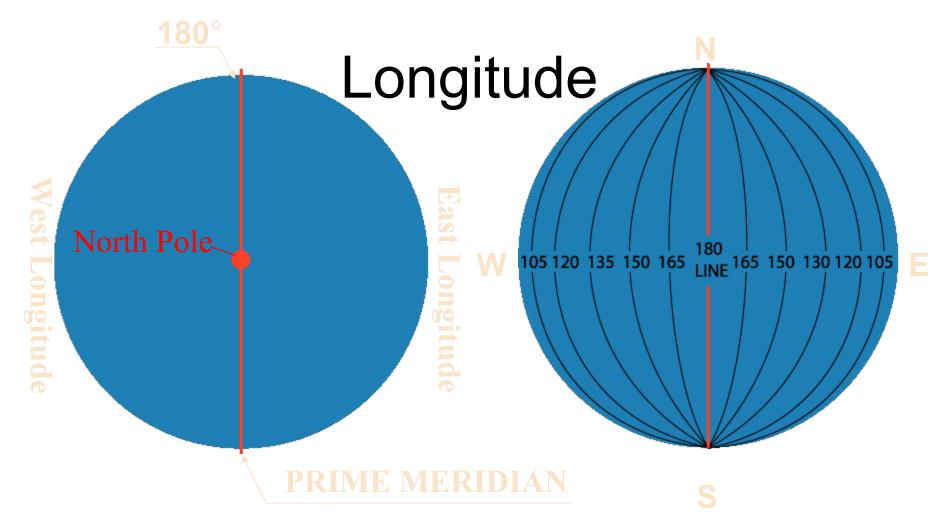
Lines of longitude begin at the Prime Meridian.

60° W is the 60° line of longitude west of the Prime Meridian.



60° E is the 60° line of longitude east of the Prime Meridian.

The Prime Meridian is located at 0°. It is neither east or west



Lines of longitude are numbered east from the Prime Meridian to the 180° line and west from the Prime Meridian to the 180° line.



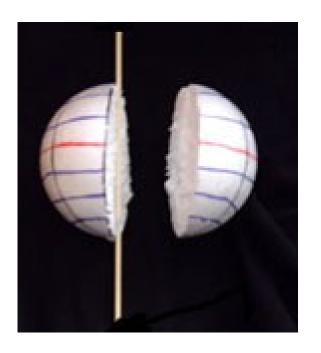
Lines of longitude only

Equator added



Other lines of latitude added





Cross-section through line of longitude



Crosssections through lines of latitude



Orange cut through lines of longitude

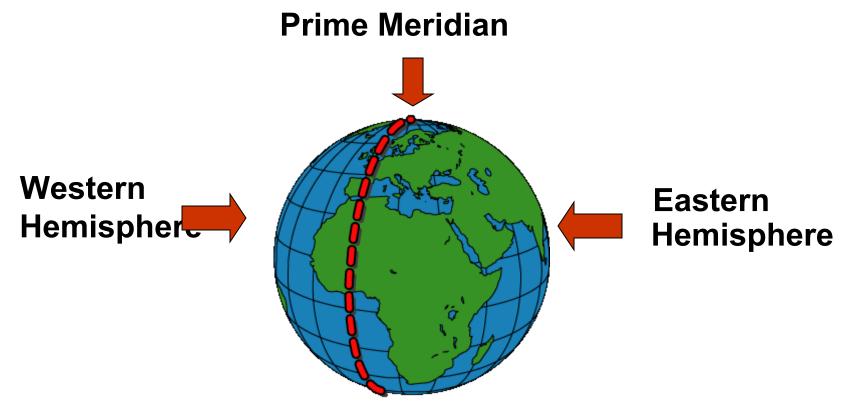


Orange cut through lines of latitude



Prime Meridian

The Prime Meridian (0°) and the 180° line split the earth into the Western Hemisphere and Eastern Hemisphere.

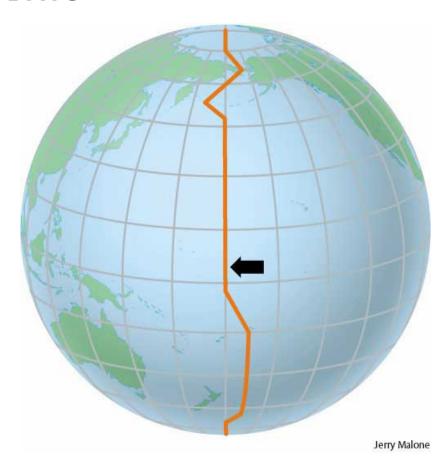


Places located east of the Prime Meridian have an east longitude (E) address. Places located west of the Prime Meridian have a west longitude (W) address.

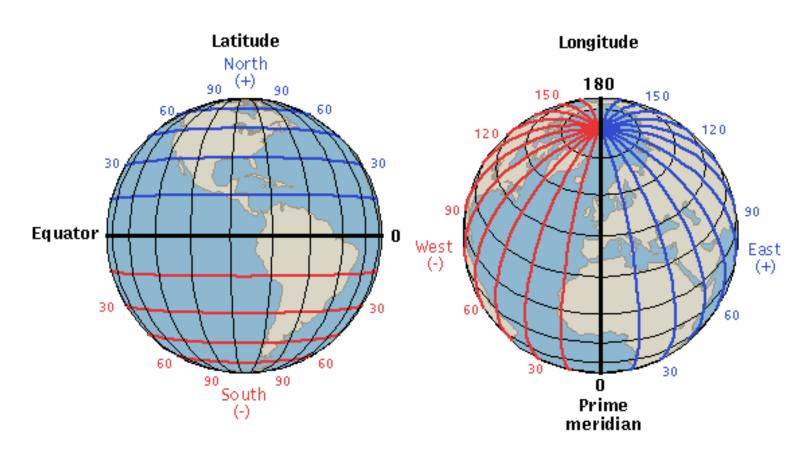
INTERNATIONAL DATE LINE 180°

SEPARATES 2 CALENDAR DAYS.

America to Asia – gain a day Asia to America – lose a day



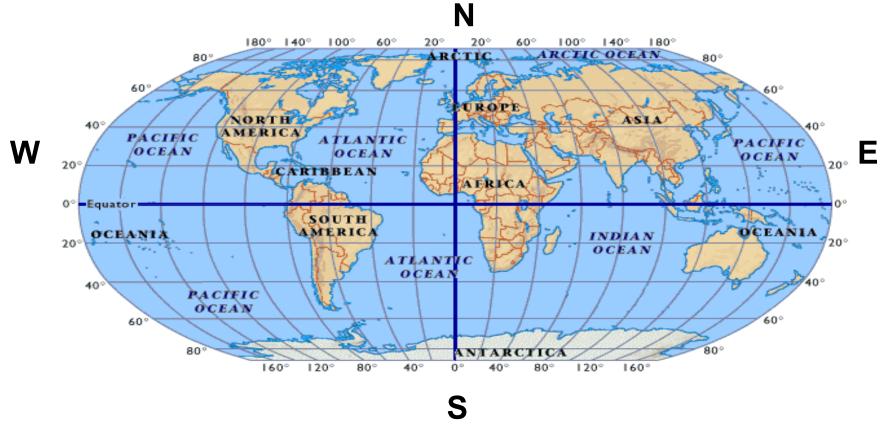
By combining latitude and longitude, any location can be pinpointed



A location's coordinates (____° N or S, ____° E or W)



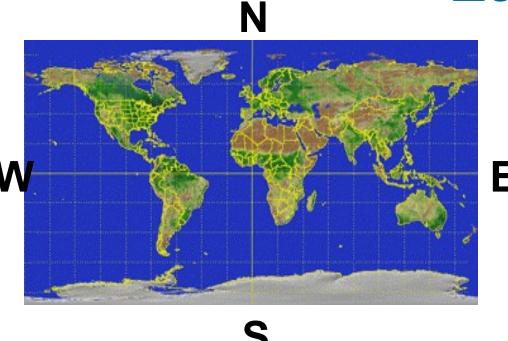
Application



North America is in the Northern Hemisphere because it is north of the Equator. North America is in the Western Hemisphere because it is west of the Prime Meridian.

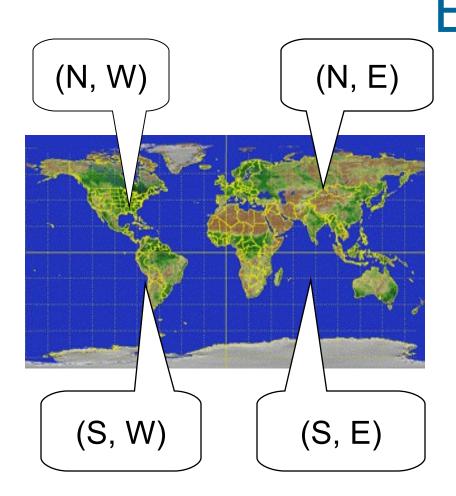
East West, North South on the

Earth • Let each of



the four quarters then be designated by North or South and East or West.

East West, North South on the

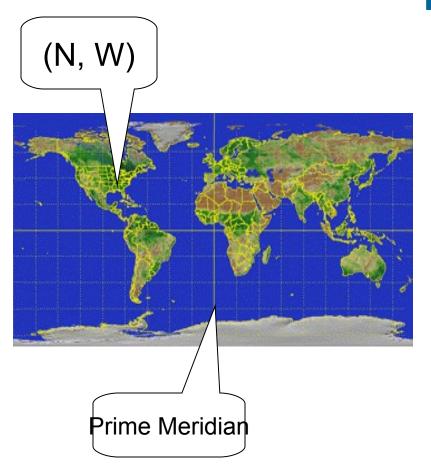


we're north of the Equator. The S tells us we're south of the Equator.

• The E tells us that we're east of the Prime Meridian. The W tells us that we're west of the Prime

N / - --: -|: - --

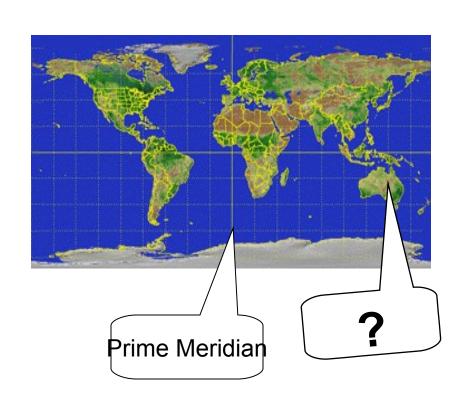
East West, North South on the Earth



That means all points in North

America will have a North latitude and a West longitude because it is North of the Equator and West of the Prime Meridian.

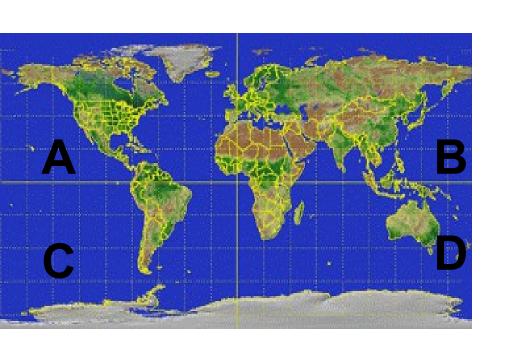
East West, North South on the Earth



 What would be the latitude and longitude directions in Australia?

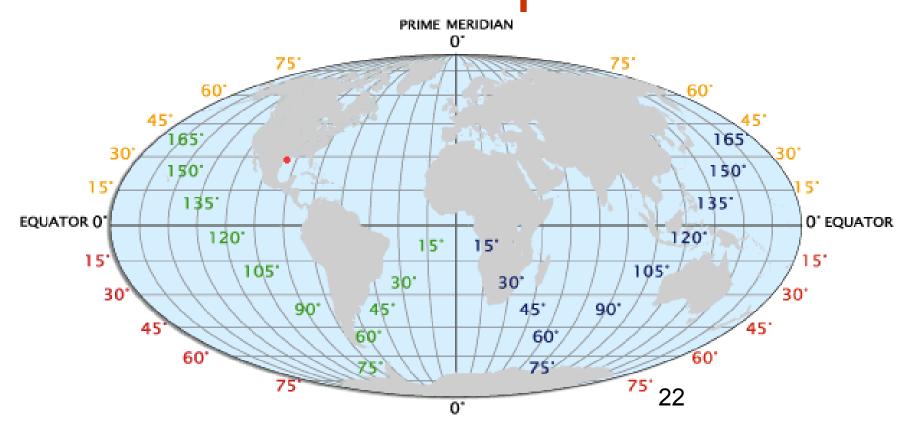
If you said South and East, you're right!

See If You Can Tell In Which Quarter These Lon/Lats Are Located



- 1. 41°N, 21°E
- 2. 37°N, 76°W
- 3. 72°S, 141°W
- 4. 7°S, 23°W
- 5. 15°N, 29°E
- 6. 34°S, 151°E

Now you're ready to find some locations on a map!



PLACE What is it like there, what kind of place is it?

HumanCharacteristics

- What are the main languages, customs, and beliefs.
- How many people live, work, and visit a place.

Physical Characteristics

 Landforms (mountains, rivers, etc.), climate, vegetation, wildlife, soil, etc.





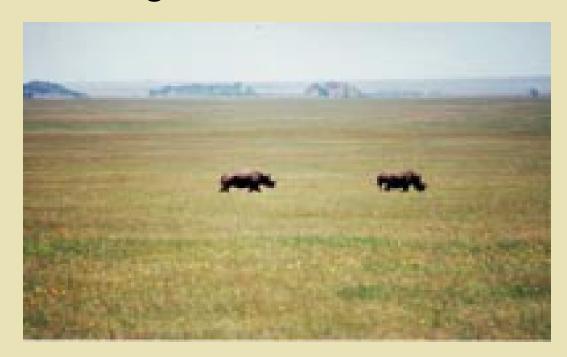






Plains

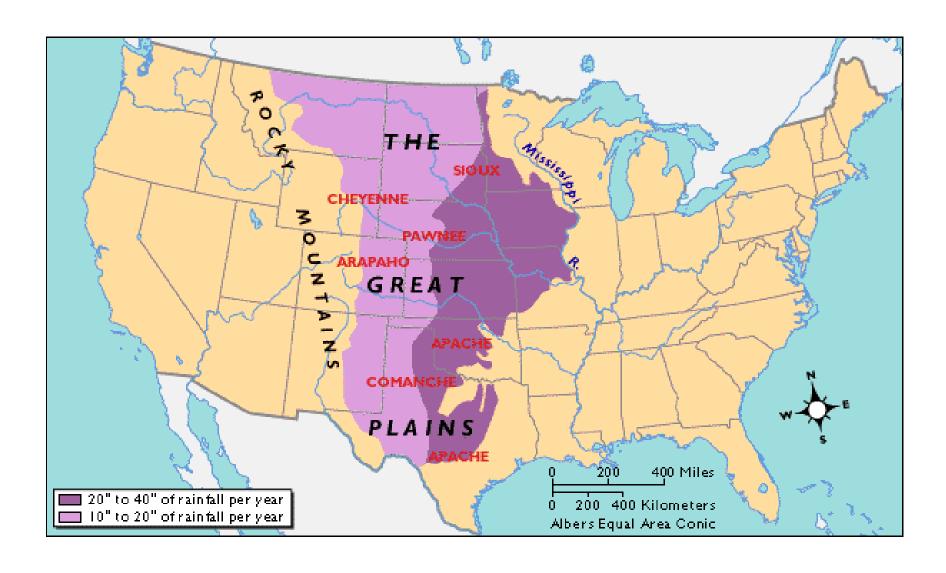
 Plains are flat lands that have only small changes in elevation.



Great Plains

OA largely treeless flat area that extends from Canada down to Mexico. The soil is very fertile and good for farming but the climate can be harsh with cold winters and hot summers. This area also gets many tornadoes.

The Great Plains



The Great Plains



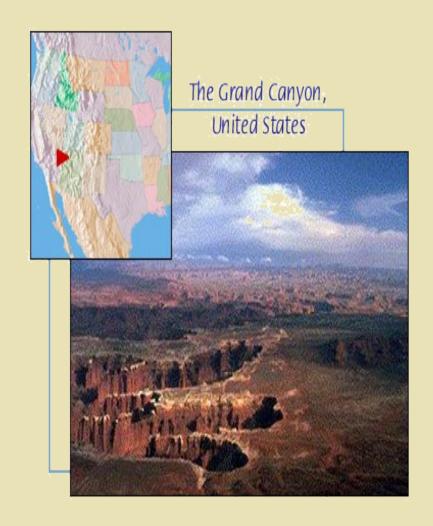






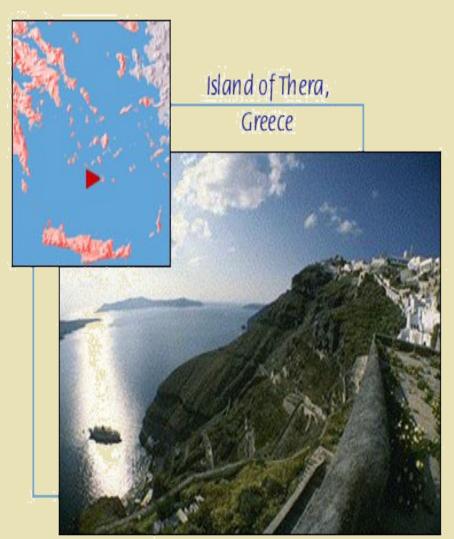
Plateau

 A plateau is a large, flat area of land that is higher than the surrounding land



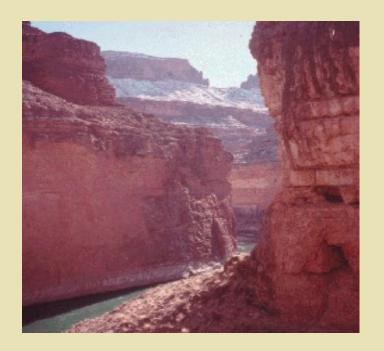
Cliff

 A cliff is a steep face of rock and soil.



Canyon

 A canyon is a deep valley with very steep sides - often carved from the Earth by a river.



Grand Canyon

- The Grand Canyon was formed by water erosion from the Colorado River. The canyon is 277 miles long and ranges in width from 4 to 18 miles. Most of the canyon is in Grand Canyon National Park in Arizona.
- OSee the Grand Canyon skywalk at youtube!



Glacier

A glacier is a slowly moving river of ice.





Mountain

 A mountain is a very tall high, natural place on Earth - higher than a hill. The tallest mountain on Earth is Mt. Everest.



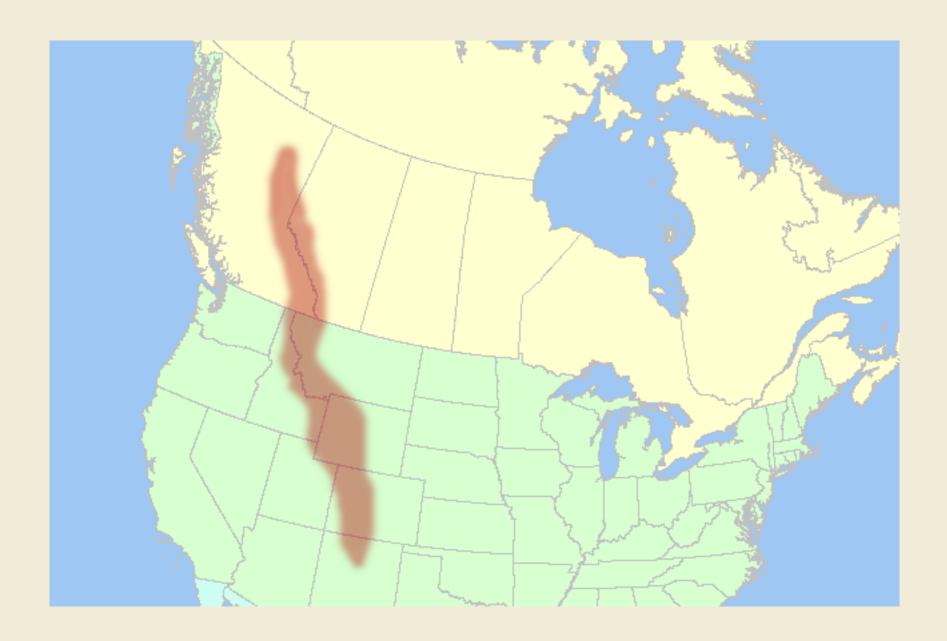
The Rocky Mountains

The Rocky Mountains extend about 3,000 miles from Alaska south to New Mexico. They are younger and taller than the Appalachian Mountains. The Continental Divide is the line of highest points in the Rockies that marks the separation of rivers flowing eastward and westward.

The Rocky Mountains



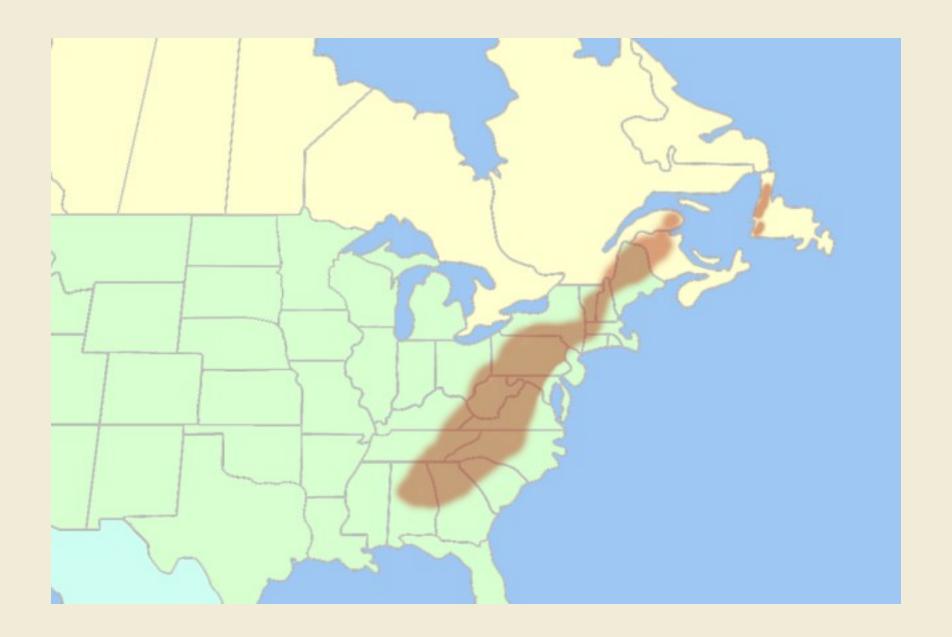




The Appalachian Mountains

The Appalachian Mountains extend about 1,600 miles north to south from Newfoundland in Canada to Alabama.

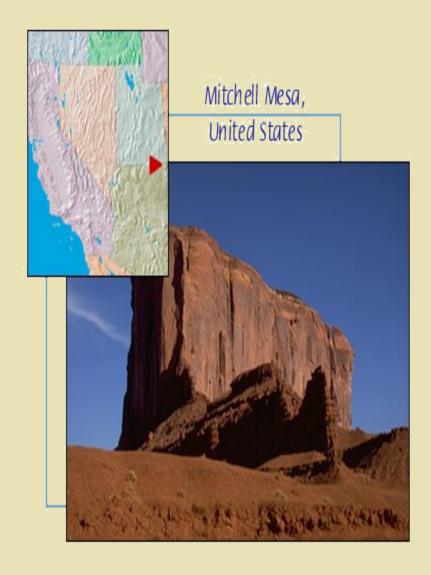






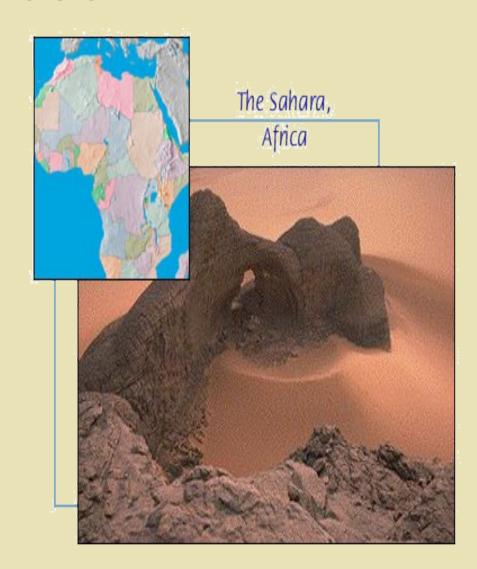
Mesa

 A mesa is a land formation with a flat area on top and steep walls usually occurring in dry areas



Desert

 A desert is a very dry area.



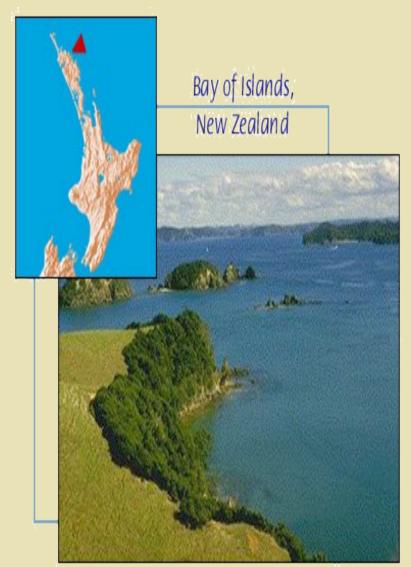
Prairie

 A prairie is a wide, relatively flat area of land that has grasses and only a few trees.



Bay

 A bay is a body of water that is partly enclosed by land (and is usually smaller than a gulf).



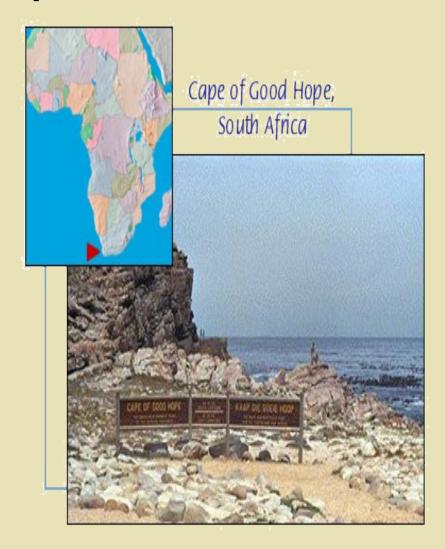
Valley

 A valley is a low place between mountains.



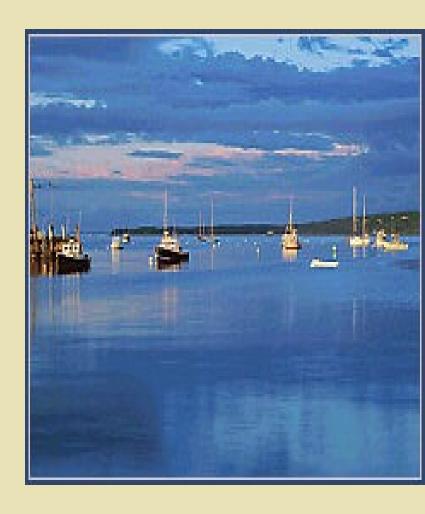
Cape

A cape is a
 pointed piece of
 land that sticks
 out into a sea,
 ocean, lake, or
 river.



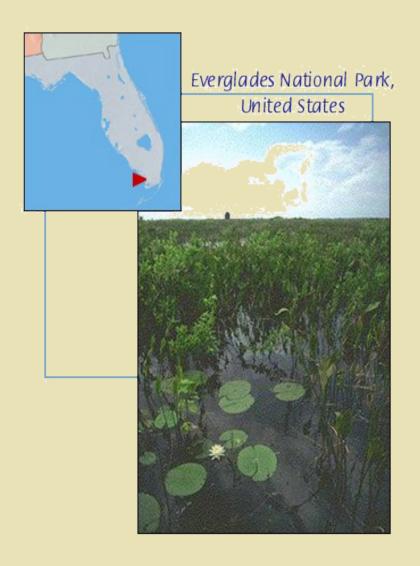
Harbor

A naturally or artificially protected basin on an ocean, lake, or river where ships may be anchored or docked without danger.



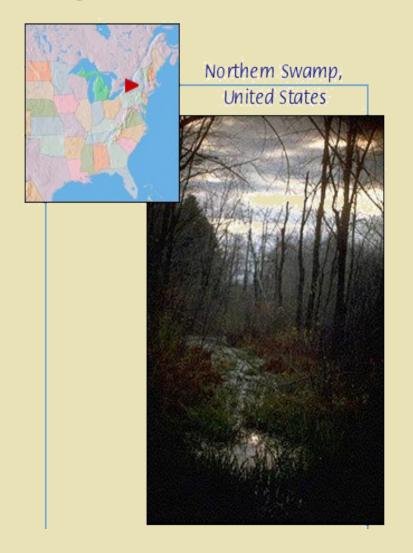
Marsh

 A marsh is a type of freshwater, brackish water or saltwater wetland that is found along rivers, pond, lakes and coasts. Marsh plants grow up out of the water.



Swamp

 A swamp is a type of freshwater wetland that has spongy, muddy land and a lot of water.
 Many trees and shrubs grow in swamps.



Mississippi River

OThe Mississippi River is the second longest river in the United States with a length of 2,340 miles. The river is an important transportation route from the grain producing states of middle America to the Gulf of Mexico.



Island

An island is a
 piece of land that
 is surrounded by
 water.

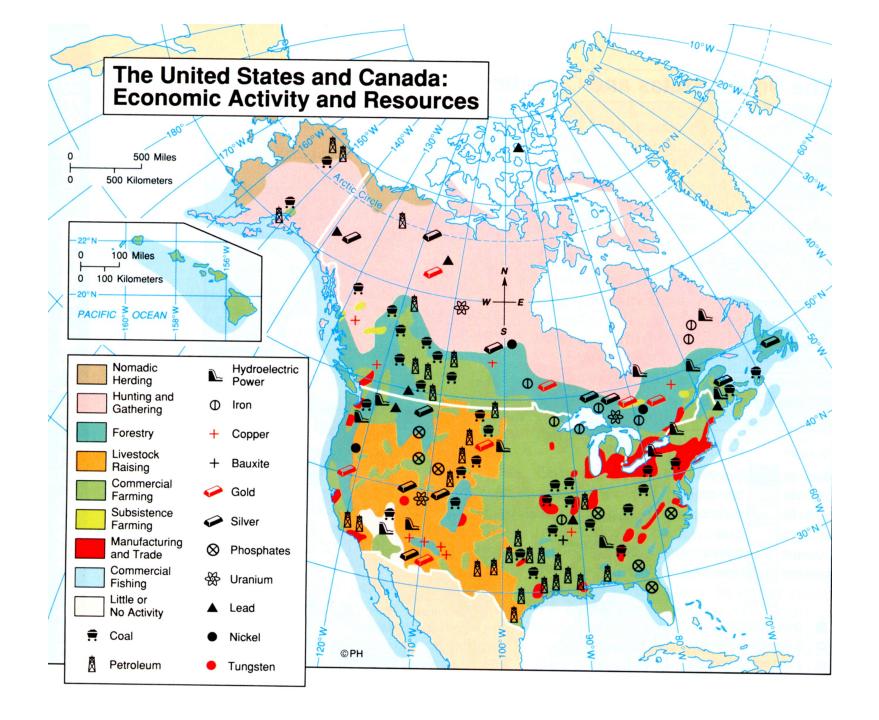


Peninsula

 An peninsula is a piece of land that is surrounded on three sides by water.



Natural Resources



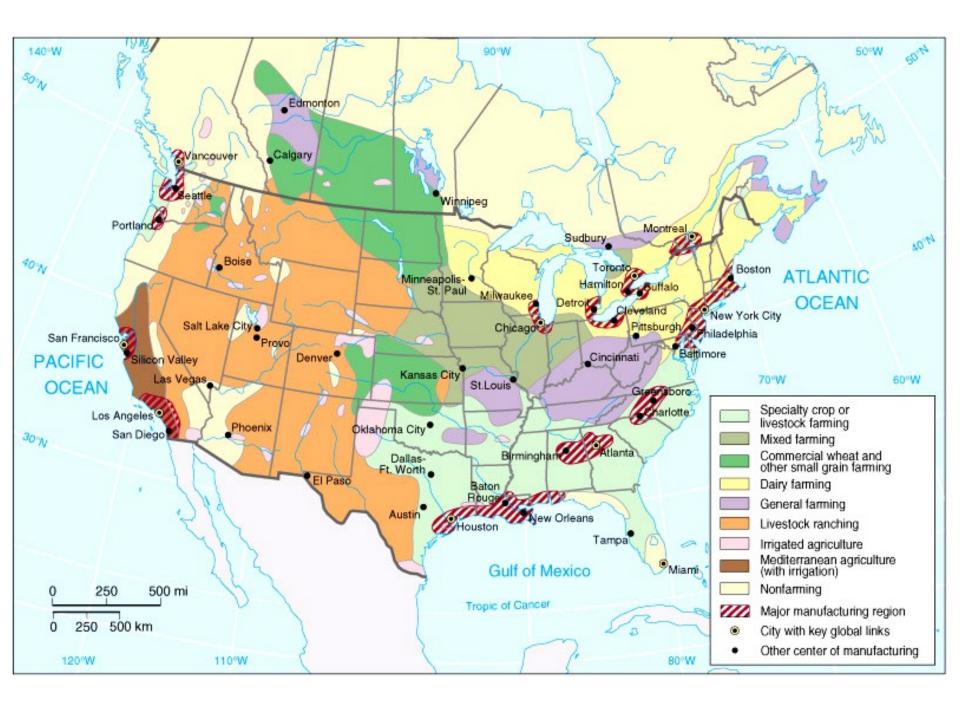
HUMAN-ENVIRONMENT INTERACTION

- How do humans and the environment affect each other?
 - We depend on it.
 - People depend on the rivers for water and transportation.
 - We modify it.
 - People modify our environment by heating and cooling buildings for comfort.
 - We adapt to it.
 - We adapt to the environment by wearing clothing suitable for summer (shorts) and winter (coats), rain and shine.



Capital Resources

Human Resources



MOVEMENT

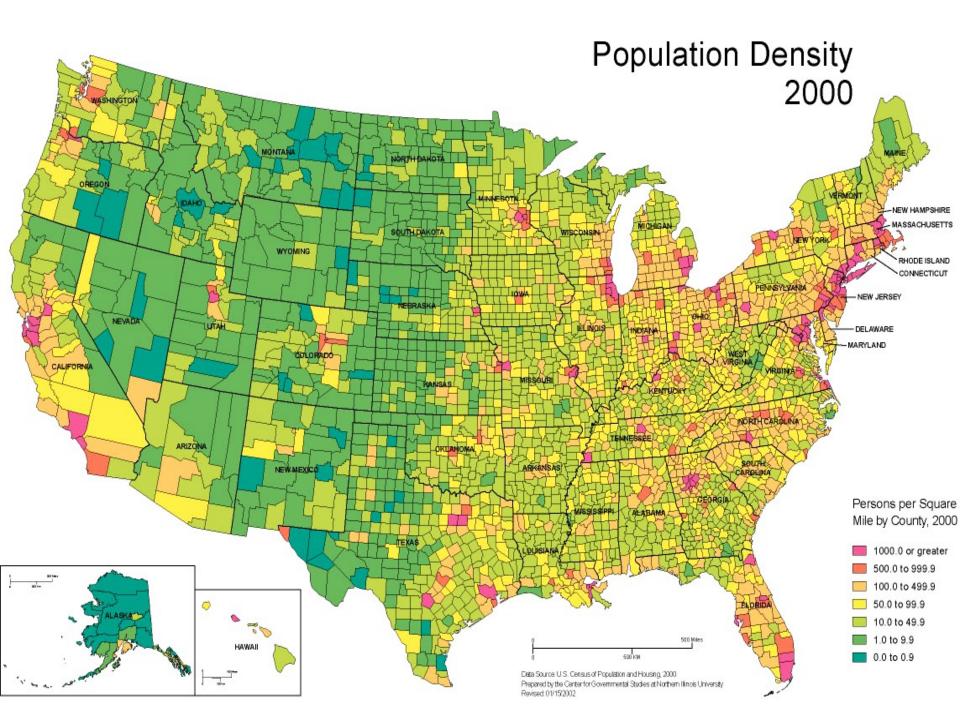
- How are people, goods, ideas moved from place to place?
 - Human Movement
 - Trucks, Trains, Planes
 - Information Movement
 - Phones, computer (email), mail
 - Idea Movement
 - How do fads move from place to place?

 TV, Radio, Magazines

 DEMOCRACY FALLS!





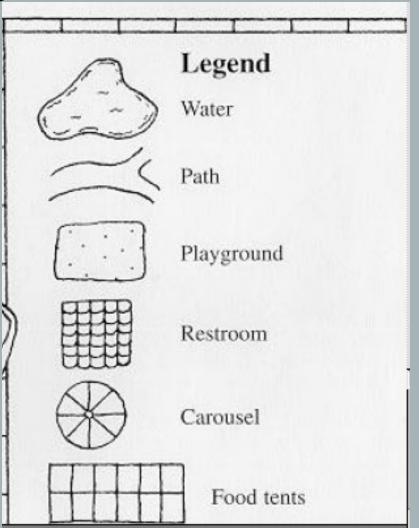


REGIONS

- How are Regions similar to and different from other places?
 - Regions defined by governmental or administrative boundaries (States, Countries, Cities)
 - Regions defined by similar characteristics (Corn Belt, Rocky Mountain region, Chinatown).

Legend

Maps often have symbols to represent such features as highways, small roads, campgrounds, and rest areas. These symbols are listed in the legend.



Compass Rose

▲ The compass rose shows the cardinal and intermediate directions directions on a map.

Index

▲ The index tells you where to find a specific place on a map. Depending on the size and type of map you're using, the index can help you locate a city, town, or street.



Scale

The scale helps you measure the distance between two places. When you know the distance you can calculate how long the trip will take.



The World Political

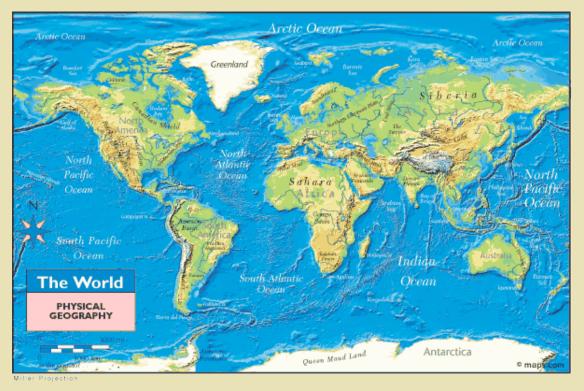
 Political maps show how people have divided places on the Earth into countries, states, cities and other units for the purpose of governing them.





The World Physical

 Physical maps show what the surface of the Earth looks like.



SIMPLIFIED UNITED STATES PHYSICAL

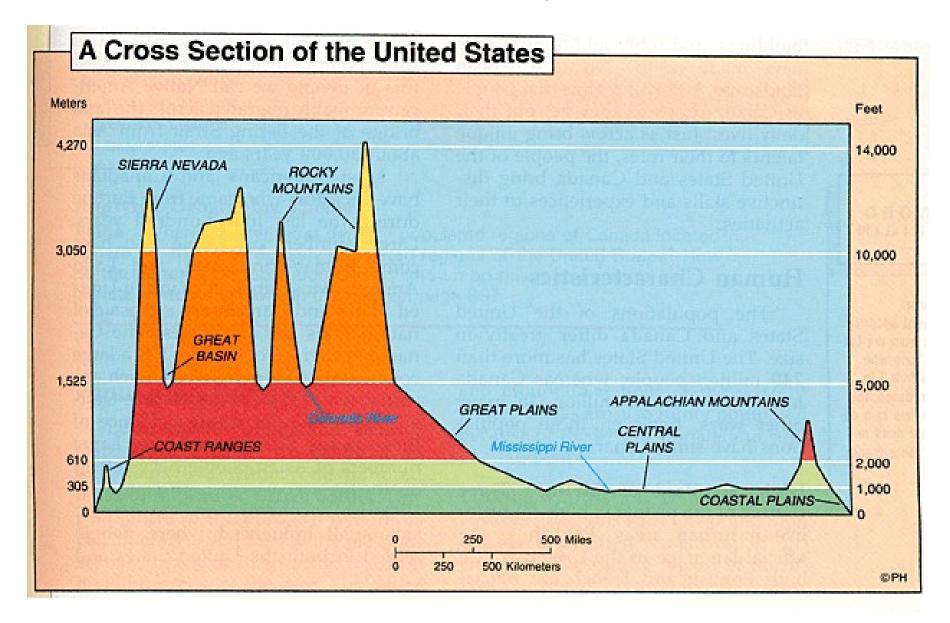


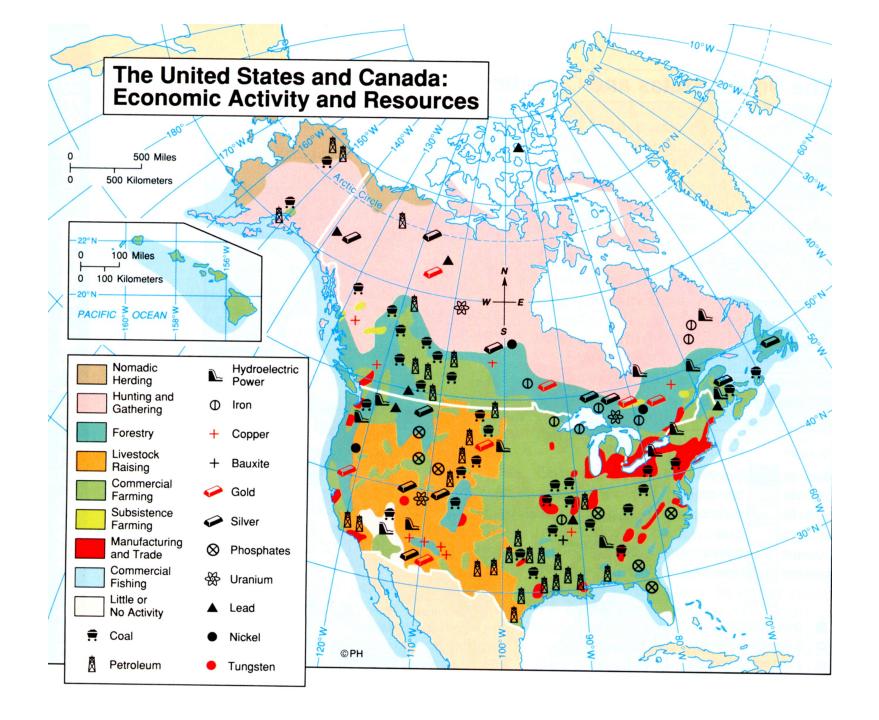
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Topography of the US



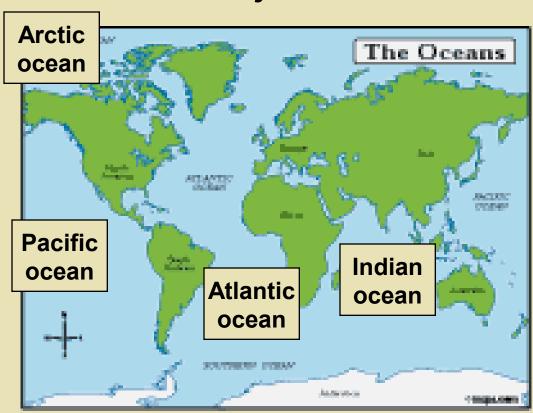
The Contour of the US





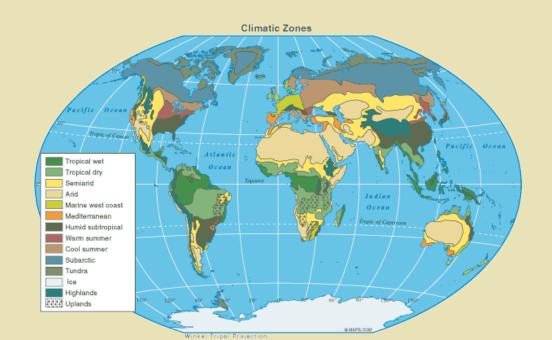
Oceans of the World

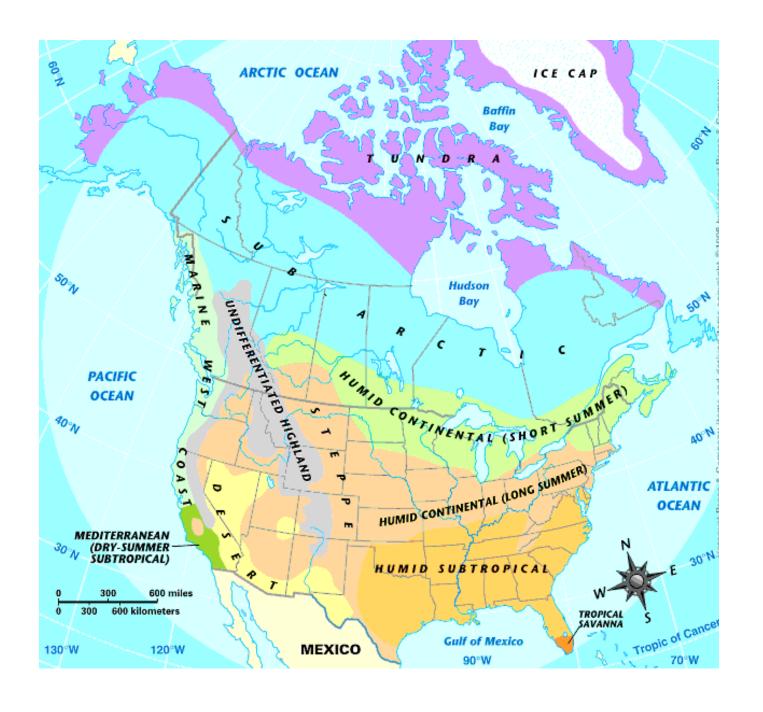
- The world has four major oceans.
- Atlantic
- Pacific
- Arctic
- Indian



Global Climates

 Students generally associate Arctic and Antarctic with cold weather, so students could make the observation that the climate at the poles is cold. This map shows the general climate regions of the world.





World Religions

 Religious beliefs help define a people's culture, so to understand a people, it is important to consider what religions influence that group.



Remembering the 5 themes

- If you can't remembering what they are just ask MR. HELP!!!
 - M Movement
 - $\cdot R$ Regions
 - HE Human Environment interaction
 - L Location
 - P Place

STOP

LONGITUDE AND TIME

- The world rotates (spins) 360° in 24 hours.
 360° / 24 hours = 15° per hour
- The world has 24 time zones, each I5° apart.

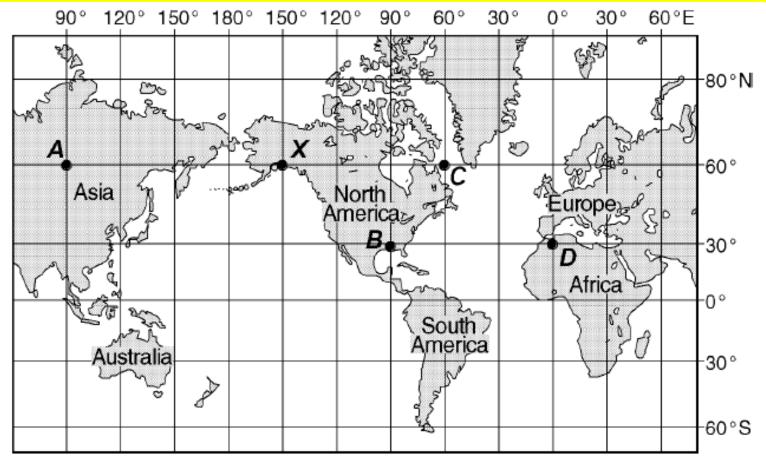
THERE IS A 1 HOUR TIME DIFFERENCE FOR EVERY 15° OF LONGITUDE

Greenwich, England is the logical starting point for time zones

 The world rotates west to east (counterclockwise), time zones to the east are ahead of the those time zones to the west

NORTH POLE

East Increase – West Less (1 hr per I5°)



If it 9 p.m. at Position D, what time is it at position C? Position B?

If it is 1 p.m. at Position X, at which location is the time 5 p.m.

Earth rotates west to east Solar time is based on the position of the sun NIGHT IS FALLING ON EARTH

Look at the East Coast of the United States. The lights are already lit.

California the sun is still visible.





