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Geography's Perspective

Geography is sometimes called the most interdisciplinary of disciplines.

A *Spatial Perspective*

- Key theme: *space on Earth's surface and its organization*
 - Particular patterns and processes that organize social and natural spaces
- **Spatial perspective:** Geography's consideration that spatial patterns are crucial to how we live & organize our societies

What Is Geography?

- Geography is the study of our planet's surface and the processes that shape it
- Geography, as an academic discipline, is unique in that it links the physical sciences with the social sciences
- Physical geographers have generally focused on how the earth's physical processes work
- Human geography is the study of the various aspects of human life that create the distinctive landscapes and regions of the world
- Physical and human geography are often tightly linked

Geography's Perspective:

Environment and Society

- Geography's intersection at social and natural sciences explicitly integrates each perspective.
- Relationship between human societies and natural (physical) environment is a two-way street:
 - Human transformation of the environment
 - Human dependence on the environment and behavior a product of it
- Humans will always be a part of nature.

Geography's Perspective: *Spatial Patterns*

- Necessary knowledge of location and distribution of significant features of Earth's surface:
 - Both human and natural worlds
 - Also incorporates a temporal (historical) perspective
- Geography's comprehensive spatial vocabulary:
 - Extensive and meaningful terms describe patterns and processes from past, present, and into the future.
 - Some definitions become more specific and complex in their usage by geographers.

Geography's Perspective: *Scale and Scope*

- **Scale:** map or analytical representation
- **Map scale:** compares the area and detail on the ground with on the map
- **Operational scale:** scale where social or natural processes play out and are investigated at a certain level of analysis



Map Analysis Activity:
 1. What is the relationship between area and detail shown in a *small-scale* map versus a *large-scale* map?

EFFECT OF SCALE

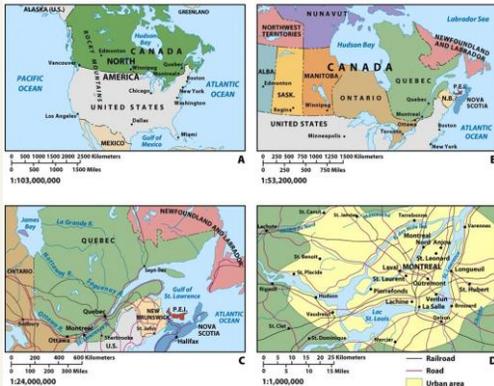


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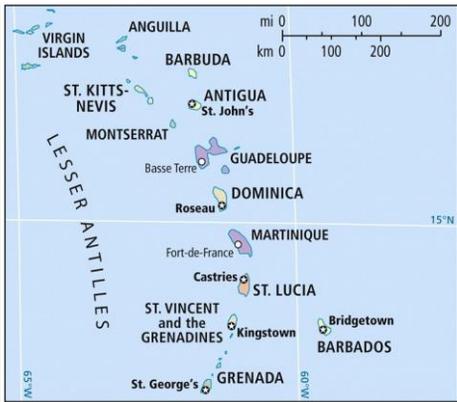


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Longitude and Latitude

- ❑ Most maps contain lines of latitude and longitude, which enable a person to establish a position on the map relative to other points on the globe
- ❑ Lines of longitude (also called meridians) run from pole to pole
- ❑ Lines of latitude (also called parallels) run around the earth parallel to the equator

Longitude and Latitude

- ❑ Both latitude and longitude lines describe circles
- ❑ There are 360 degrees (designated with the symbol °) in each circle of latitude
- ❑ There are 180 degrees in each pole to pole semi-circle of longitude
- ❑ The globe is also divided into hemispheres
- ❑ The prime meridian, 0° longitude, divides the globe into Eastern and Western Hemispheres
- ❑ The equator divides the globe into the Northern and Southern Hemispheres

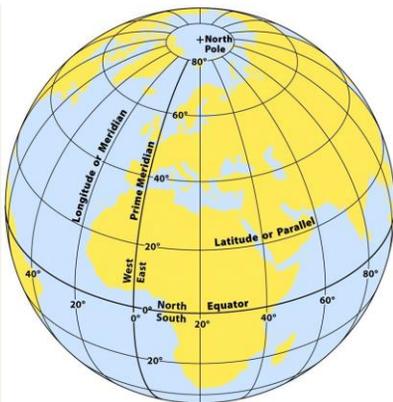


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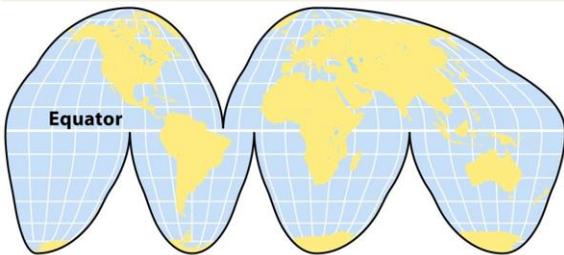
Map Projections

- Printed maps must solve the problem of showing the spherical earth on a flat piece of paper
- The various ways of showing the spherical surface of the earth on flat paper are called map projections
- All projections create some distortion
- Maps are not unbiased



Mercator Projection

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Goode's Interrupted Homolosine Projection

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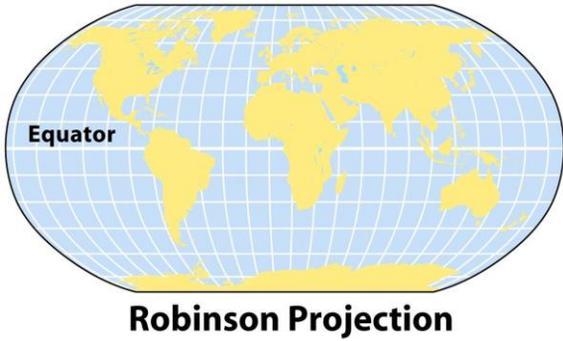


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World Geographic Realms

Geographic realms: global neighborhoods with combinations of environmental, cultural, and organizational properties

Criteria for Geographic Realms:

1. *Physical and human:* define broad areas
2. *Functional:* interaction within the area
3. *Historical:* above criteria interrelated over time

World Geographic Realms

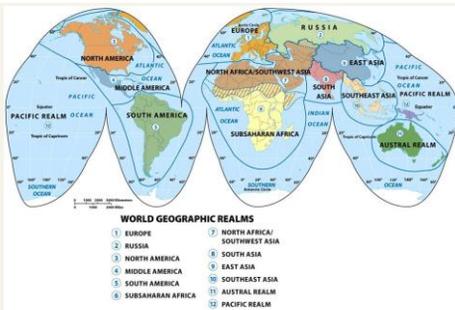


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World Geographic Realms:

Delineating Realms: Boundaries and Transition Zones

- ❑ Beyond common natural boundaries that separate world realms (e.g., oceans and seas)
- ❑ **Transition zones:** where two geographic realms meet are not sharp boundaries:
 - ❑ Represent ever-changing zones of regional interaction and change
 - ❑ Vary in size: most are narrow; a few can be broad
 - ❑ Reality of contested, shifting boundaries, and changing geographic fortunes in the world

World Geographic Realms:

Geographic Realms: Dynamic Entities

- ❑ Temporal change affects realms' criteria.
- ❑ In the four decades after WWII, country borders changed little, but since 1985, far-reaching realignments have been occurring again.

World Geographic Realms:

Two Varieties of Realms

- ❑ **Monocentric:** realms are dominated by a single major political entity, either by its territorial or population size.
- ❑ **Polycentric:** appearance, functioning, and organization are dispersed among equally influential regions or countries.

Regions within Realms

Regional concept: refined level of spatial classification requiring more specific criteria:

- Often employed as part of everyday communication
- Often easy to imagine and describe, but difficult to outline on the map
 - Different criteria can be identified or prioritized, thus changing the delimitation
- Use of spatial generalizations and selective criteria
 - Depends on the purpose for creating the region

Regions within Realms: *Criteria for Regions*

Five sets of criteria:

1. **Area:** space occupied on Earth's surface
2. **Boundaries:** nature's sharp divisions or using specific criteria to divide
3. **Location**
 - Often a region's name contains a locational clue.
 - **Absolute location:** area's extent defined by the geographic grid.
 - **Relative location:** referenced against other regions.

Regions within Realms: *Criteria for Regions*

Five sets of criteria (cont.):

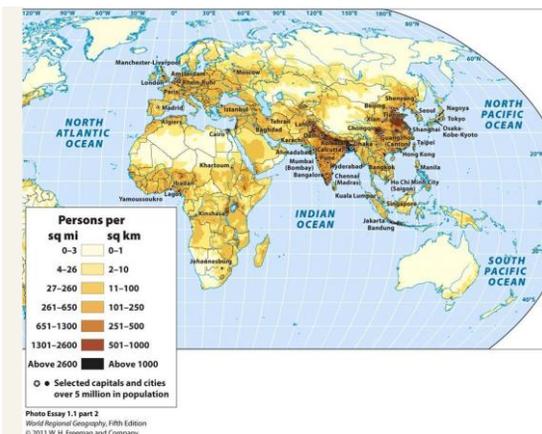
4. **Homogeneity or sameness:**
 - Human (cultural), physical (natural), or both
 - **Formal regions:** areas with a measureable or visible internal homogeneity
5. **Regions as Systems** marked by functional integration:
 - **Spatial Systems:** components and interactions within an areal extent, known as a **functional region**
 - Core, as center of activity with a surrounding zone of interaction, or **hinterland**

Regions within Realms: *Interconnections*

- All human-geographic regions are more or less linked to other regions.
- Globalization:
 - Causing ongoing integration and connections
 - Sometimes blurs regional identities
 - Sometimes paradoxical:
 - Some regions become more alike.
 - Some regions develop stronger contrasts.

Thematic Concepts and Their Role

- Within the world regional framework, most lectures are organized around nine thematic concepts:
 - Population
 - Gender
 - Development
 - Food
 - Urbanization
 - Globalization
 - Democratization
 - Water
 - Climate change



The Physical Setting

- The role of natural environments in how people make their living:
 - *Patterns of opportunity* are favored areas with opportunities for plant and animal domestication:
 - Then followed continued adaptation and invention
 - Led to the development of villages, towns, and cities
 - People in other environments found it harder without such favored opportunities.
- Modern map carries these imprints of the past.

The Physical Setting:

Natural (Physical) Landscapes

- **Natural landscapes:** array of landforms constituting Earth's surface, including the physical features that mark them:
 - Landform types: mountains, hills, plains, plateaus
 - Physical features: water bodies, soil, vegetation
- Influence human activity and movement
- Each geographic realm has its distinctive combination of natural landscapes

The Physical Setting:

Geology and Natural Hazards

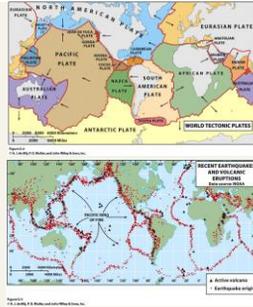
- **Tectonic plates:** lighter rock continents float atop heavier rock plates that move by magma circulation cells within the Earth.
- Collision of tectonic plates cause earthquakes and volcanoes.
 - **Continental drift:** landmasses were once pieces of a supercontinent, *Pangaea*, that broke up and continues to drift apart



The Physical Setting: Geology and Natural Hazards

Map Analysis Activity: Comparing Tectonics and Natural Hazards

1. What connections are seen in the two maps?
2. What realms are most susceptible to tectonic hazards?



The Physical Setting: *Climate*

- Cyclical nature of climate
- **Ice age:** periods when average temperatures were low, allowing the expansion of glacial ice equator-ward
- Cyclical periods:
 - **Glaciation:** cold phases with glacial expansion
 - **Interglacials:** warm phases with glacial receding



- Geologic periods:
 - **Pleistocene:** recent epoch spanning rise of humans
 - **Holocene:** today's Pleistocene interglacial epoch

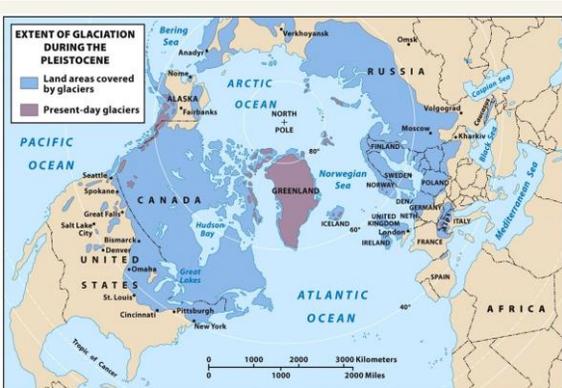


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The Physical Setting: *Climate*

Global Climate Change

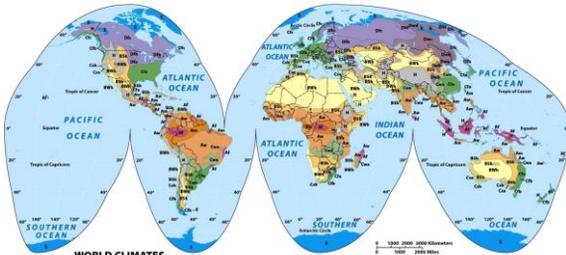
- Includes natural and anthropogenic induced changes associated with warming or cooling.
- Greenhouse effect leads to these climatic shifts. Relationship between the atmosphere and radiation:
 - Warming: more solar radiation is trapped by the atmosphere.
 - Cooling: more solar radiation is released out of or blocked from the atmosphere.

The Physical Setting: *Climate*

Climate Regions

- Weather vs. Climate
 - **Weather:** immediate state of the atmosphere
 - **Climate:** aggregate, total record of weather conditions at a place or region over time
- Köppen's climatic regions
 - A: equatorial/tropical - B: dry
 - C: temperate - D: cold
 - E: polar - H: highland

The Physical Setting: *Climate*

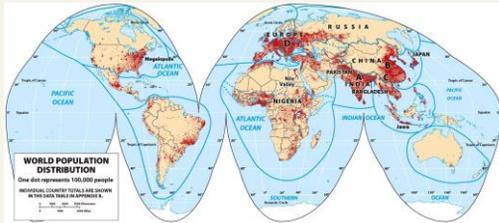


WORLD CLIMATES
 After Köppen-Geiger

A HUMID EQUATORIAL CLIMATE	C HUMID TEMPERATE CLIMATE	E COLD POLAR CLIMATE
■ No dry season	■ No dry season	■ tundra and ice
■ Short dry season	■ Dry winter	
■ Dry winter	■ Dry summer	
B ARID CLIMATE	D HUMID COLD CLIMATE	H HIGHLAND CLIMATE
■ Semiarid	■ No dry season	■ Unclassified highlands
■ Arid	■ Dry winter	
	■ Subtropical wet	
	■ Subtropical dry	
	■ Continental	
	■ Very cold winter	

Realms of Population

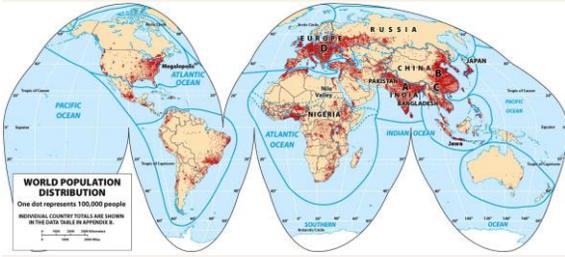
- Current world population: 7.1 billion
- Occupying less than 30% of Earth's surface



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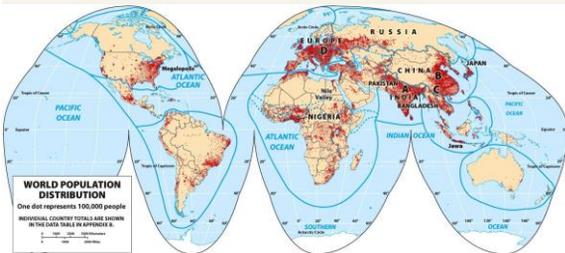
Realms of Population: Major Population Clusters

- **Population distribution:** map with dots to represent ~100,000 people.
- Distinct from *population density* as persons per unit area

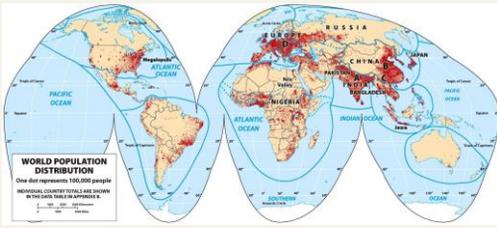


Realms of Population: Major Population Clusters

- Three major world population clusters = 4 billion people
- **Urbanization**, or percentage of people living in cities and towns, varies among the world's realms and regions



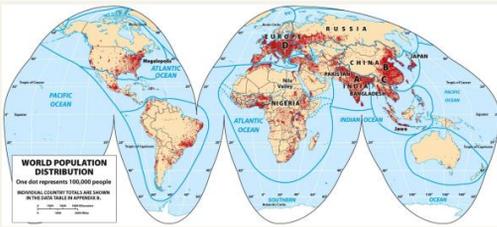
Realms of Population: Major Population Clusters



A: South Asia

- Centered on India, including Pakistan and Bangladesh
- World's largest cluster made up mostly of farmers

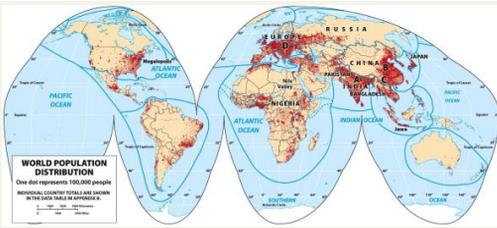
Realms of Population: Major Population Clusters



B & C: East Asia

- Centered on China, including coastal zone
- Rapid change from rural-to-urban life and development

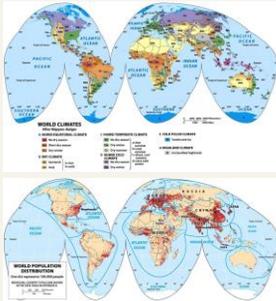
Realms of Population: Major Population Clusters



D: Europe

- European continent, including Western Russia
- Among the world's most urbanized and industrialized realms

The Physical Setting & Realms of Population



Map Analysis Activity:
Comparing Climate and Population

1. What relationship is seen between climate and where people are clustered?
2. What about where people are *not* clustered?

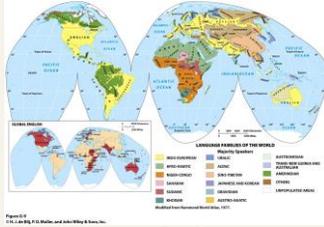
Realms of Culture

- **Cultural landscape:** distinctive attributes of a society imprinted on its portion of the world's physical stage:
 - People start with their physical environment and use their culture to create a multilayered landscape.
 - The cultural landscape can be read for clues about the relationship of people to their environment.
- No realm has a single cultural landscape.
- Variations help to define the world's regions.

Realms of Culture: *The Geography of Language*

- Language as the essence of culture:
 - Linguistic diversity in the face of English primacy
 - Language lifespan: emerge, thrive, and die out
- Language tree:
 - 15 language families: shared, but distant, origins
 - Several language subgroups under a family
 - *Lingua franca*: a common second language used in government, commerce, or higher education
 - English primacy a result of colonization and globalization
 - Languages evolve over generations

Realms of Culture: The Geography of Language



Map of Global Language Families

- Spatial perspective on history of “language trees”
- Work in progress as languages change or die out

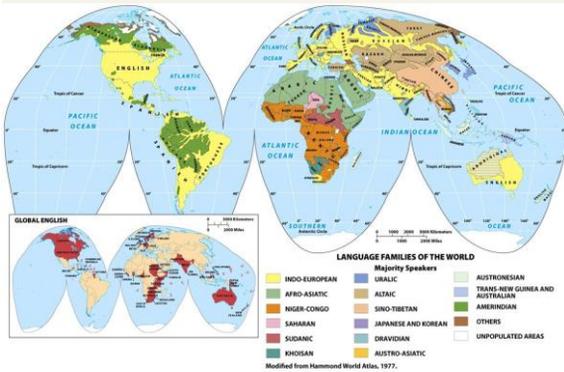


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Realms of Culture: The Geography of Language



Map Analysis Activity: Comparing Realms and Language Trees

1. What realms are mostly dominated by a single language family?
2. What realms are more linguistically fragmented?

Realms of Culture: Landscapes of Religion

- Crucial influence world civilizations and history.
- Patterns are diffuse and dynamic, yet there is still a strong connection between realms and religion.



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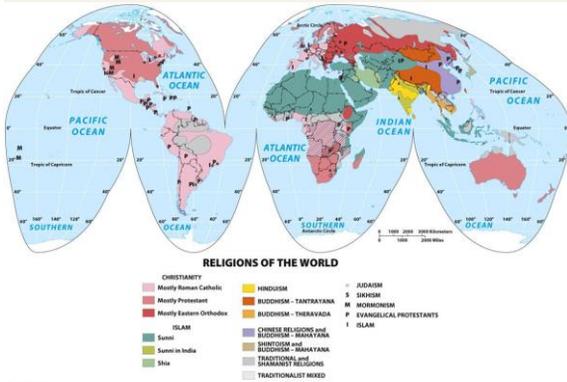
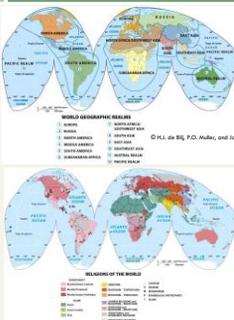


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Realms of Culture: Landscapes of Religion



Map Analysis Activity: Comparing Realms and Global Religions

1. What realms seem to be dominated by a single religion?
2. What realms have the greatest religious diversity?
3. Why is viewing religion at the global-scale misleading?

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A World of States

- ❑ **States:** geographic term for political entities, also known as countries.
- ❑ Size is not a dependable criterion of importance.

A World of States: *The Modern State*

- Sovereignty:** notion that government of a state rules supreme within its borders
- ❑ Essential to the world's territory organized into a system of states
 - ❑ Sovereignty is usually recognized by other states.
 - ❑ However, recognition can be mired in conflict and war.

A World of States: *The Modern State*

- ❑ **Emergence of the modern state:**
 - ❑ Ancient "proto-states" origins
 - ❑ **European state model:** assumed a political entity (*state*) would territorially match a cultural entity (*nation*) as a *nation-state*
- ❑ Notion of the modern state is challenged...
 - ❑ "from below" by ethnic minorities.
 - ❑ "from above" by international integration.
- ❑ Power is still largely held by states.

A World of States

Subdivisions of the State

- Subnational political units
 - e.g., states, provinces, regions, federal districts, etc.
 - Power is decentralized to substate entities.

Geopolitics and the State

- Global influence often relates to a state's geographic attributes:
 - Physical geography, cultural, or economic factors.
 - Significance of attributes does change overtime.

A World of States

States, Realms, and Regions

- State borders often help bound realms and regions.
- Realm and region boundaries can cut across states.

Political Geography

- Shapes world-scale geographic regions.
- Global boundary framework also changes.

Geographies of Development

- **Economic geography:** focuses on spatial aspects of peoples' livelihoods and the patterns of production, distribution, and consumption.
- **Development:** gauges a state's economic, social, and institutional growth.

Statistics: A Caution

- Data reflect state-scale totals and averages.
- Data can conceal regional and local variability.

Geographies of Development: Development in Spatial Perspective

Uneven Development

- Human success has been focused on certain areas and has bypassed others.
 - **Core areas:** places of dominance that exerted power over surroundings, near and far.
 - **Periphery:** created through one-sided interactions to sustain the core.
 - Core-periphery interactions usually meant wealth for the core and enforced stability in the periphery.

Geographies of Development: Development in Spatial Perspective



The World Is Not Flat!

- **Friedman:** the world is so mobile, interconnected, and integrated that core-periphery barriers are falling.
- Yet, a *global core* persists.
- And globalization's effects on development are uneven by scale and pace.

Uneven Development

- Exists at a range of scales.
- *Spatial networks* have nodes or intersections of various centrality and importance.

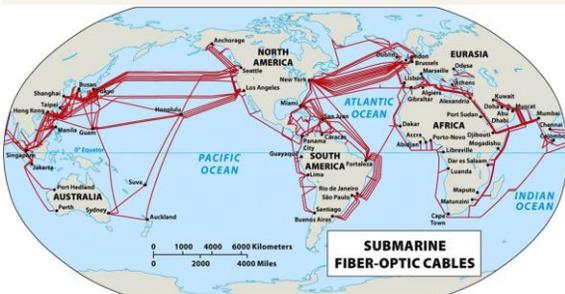
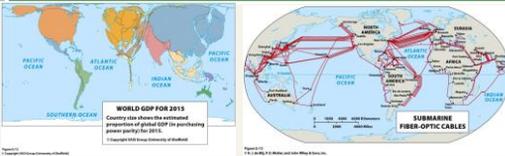


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Geographies of Development: Development in Spatial Perspective



Map Analysis Activity: Uneven Development

1. What relationships can be seen in the map of *World GDP for 2015* and the map of *Submarine Fiber-Optic Cables*?
2. What inferences about the uneven nature of core-periphery spatial networks can be made from these two maps?

Globalization

- **Globalization:** a geographic process in which economic, cultural, and political relations shift to ever-broader scales:
 - The world is integrated and interconnected in a global village.
 - Driven by rapid advances in communication and transportation technologies.
 - Not entirely new: historical globalization processes of the mid- and late-nineteenth century.

Globalization

Global Challenges, Shared Interests

- Global warming is a global threat, yet mired in regional interests.
- Global migration flows create global cultural interaction, yet barriers to *transnational migrants* increase.

Winners and Losers

- **WIN:** Expand international capitalism, standardize practices, and shrink the development gap.
- **LOSE:** Uneven development persists, increasing inequality at all scales and unfair competition.

Globalization:

The Future

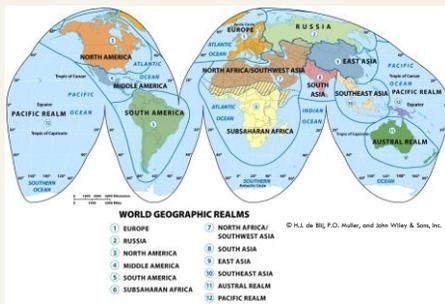
- The uncertainty of the future of globalization:
 - Critics: There are growing development gaps and impending global destabilization.
 - Proponents: Give globalization time to spread its advantages to all.
 - Reality of the present: The "global village" is still distinct, and some contrasts have been amplified.

What do you think?

- Do you side with critics or proponents? Why?

Realms and Regions:

The Structure of This Book



Realms and Regions:

Remarks on the Discipline of Geography

- Geography is both a social and physical science.
- Types of study:
 - Regional geography is an all-encompassing study of the world by its regions, which uses...
 - Systematic geography and its research in systematic fields that relate to other disciplines, but uses its unique spatial perspective.

