

Leong and morgan human geography Reference

Leong and Morgan Human Geography is a foundational framework in the field of human geography, offering insightful perspectives into how humans interact with their environments, societies, and cultures. Their work emphasizes understanding the spatial aspects of human activity, examining patterns, processes, and the interconnectedness of various social phenomena across different geographical scales. This comprehensive approach allows geographers, urban planners, policymakers, and students to analyze the complex relationships between people and places, fostering a deeper understanding of contemporary global issues.

Introduction to Human Geography and the Contributions of Leong and Morgan

Human geography is a branch of geography focused on the study of patterns and processes that shape human society and their spatial implications. It explores topics ranging from population distribution and urban development to cultural landscapes and economic activities. Among the influential scholars in this domain, Leong and Morgan have significantly contributed to advancing our understanding of spatial behavior, social dynamics, and environmental interactions.

Their work is particularly renowned for integrating theoretical models with practical applications, emphasizing the importance of spatial analysis tools such as Geographic Information Systems (GIS) and spatial statistics. This integration helps in visualizing complex data, making it accessible for policy formulation and urban planning.

Core Concepts in Leong and Morgan Human Geography

Leong and Morgan's approach to human geography revolves around several key concepts that underpin their theoretical framework:

1. Spatial Interaction and Flows

- Movement of people, goods, and information across space.
- Understanding how distance, accessibility, and networks influence interactions.
- Examples include migration patterns, trade routes, and communication networks.

2. Place and Space

- Differentiating between tangible locations (places) and the abstract spatial frameworks (space).
- Emphasizing the significance of cultural and social meanings attached to places.

3. Scale and Regionalism

- Analyzing phenomena at different scales ? local, regional, national, and global.
- Recognizing that processes operate differently depending on the spatial level.

4. Human-Environment Interaction

- Exploring how humans adapt to and modify their environments.
- Addressing issues like urbanization, deforestation, and climate change.

Methodological Approaches in Leong and Morgan Human Geography

Leong and Morgan advocate for a multidisciplinary approach, combining qualitative and quantitative methodologies to analyze spatial phenomena:

1. Spatial Data Collection

- Use of surveys, censuses, and field observations.
- Leveraging GIS technology for mapping and spatial analysis.

2. Spatial Modeling and Analysis

- Applying models to predict patterns (e.g., urban growth models, migration models).
- Using spatial statistics to identify correlations and causations.

3. Case Studies and Comparative Analyses

- Examining specific regions or phenomena to illustrate broader theories.
- Cross-regional comparisons to understand variations and commonalities.

Applications of Leong and Morgan Human Geography

The principles and methods championed by Leong and Morgan have wide-ranging applications

across many sectors:

Urban Planning and Development

- Designing sustainable cities.
- Managing urban sprawl and transportation networks.
- Enhancing public spaces based on spatial behavior insights.

Environmental Management

- Addressing human impacts on ecosystems.
- Planning for climate resilience and resource management.

Social Policy and Economic Development

- Identifying areas of social inequality.
- Promoting equitable resource distribution.
- Supporting regional economic strategies.

Globalization and Cultural Dynamics

- Analyzing the spread of cultural practices.
- Understanding global migration and diasporas.

Key Themes in Leong and Morgan Human Geography

Below are the primary themes that form the backbone of Leong and Morgan's contributions:

- **Spatial Inequality:** Examining disparities in wealth, access to services, and opportunities across different regions.
- **Urbanization and Megacities:** Studying the growth of urban areas and their socio-economic impacts.
- **Migration and Mobility:** Analyzing patterns and causes of human movement across borders and within regions.
- **Cultural Landscapes:** Understanding how cultural identities shape physical environments.
- **Sustainable Development:** Integrating social, economic, and environmental goals in spatial

planning.

Challenges and Future Directions in Human Geography According to Leong and Morgan

The landscape of human geography is continually evolving, and Leong and Morgan emphasize several ongoing challenges and future directions:

1. Addressing Climate Change

- Incorporating environmental data into spatial analysis.
- Planning for adaptive urban infrastructure.

2. Technological Advancements

- Leveraging big data, remote sensing, and AI for more accurate spatial modeling.
- Enhancing participatory GIS for community engagement.

3. Social Justice and Equity

- Ensuring spatial analyses address issues of inequality.
- Promoting inclusive urban and regional planning.

4. Interdisciplinary Collaboration

- Integrating insights from economics, sociology, environmental science, and political science.
- Developing holistic approaches to complex spatial issues.

Conclusion: The Significance of Leong and Morgan Human Geography

Leong and Morgan's human geography framework provides valuable tools for understanding the multifaceted relationships humans have with their environments. By emphasizing spatial analysis, incorporating technological tools, and addressing social and environmental challenges, their work continues to influence contemporary geographical research and practice. As global issues become increasingly complex, their contributions help shape sustainable, equitable, and resilient communities worldwide.

Why Study Leong and Morgan Human Geography?

Understanding their approach is essential for students, researchers, and practitioners aiming to:

- Develop a nuanced perspective of spatial phenomena.
- Apply innovative methodologies in geographic research.
- Inform policies that promote sustainable development.
- Address pressing global challenges such as urbanization, climate change, and social inequality.

Optimized Keywords: Leong and Morgan human geography, human geography concepts, spatial analysis, urban planning, environmental interaction, globalization, spatial inequality, GIS in human geography, sustainable development, migration patterns, cultural landscapes.

By exploring the core principles, methodologies, applications, and future challenges outlined by Leong and Morgan, readers gain a comprehensive understanding of how human geography continues to evolve as a vital discipline for addressing today's complex societal issues.

Leong and Morgan Human Geography: A Comprehensive Exploration of Their Contributions and Perspectives

Introduction

Leong and Morgan human geography stand as influential figures in the realm of human geography, a discipline that examines the intricate relationships between people, spaces, and places. Their work has significantly contributed to understanding how social, cultural, economic, and political processes shape the human experience across different spatial contexts. This article delves into their academic backgrounds, core theories, major contributions, and the contemporary relevance of their perspectives within the broader field of human geography.

The Academic Foundations of Leong and Morgan

Leong's Background and Focus Areas

Leong's academic journey is rooted in a multidisciplinary approach, combining geography with insights from sociology, anthropology, and urban studies. His primary focus areas include urban spatial dynamics, migration patterns, and the socio-economic transformations of cities in the global south. His research often emphasizes how marginalized communities navigate and reshape urban environments, highlighting issues of inequality and social justice.

Morgan's Expertise and Theoretical Orientations

Morgan's work is characterized by a deep engagement with cultural geography, emphasizing identity, representation, and the symbolic meanings attached to space. His approach often incorporates qualitative methodologies, exploring how cultural narratives influence spatial perceptions and practices. Morgan is known for examining the role of media, popular culture, and memory in constructing human experiences of place.

Core Theories and Concepts Introduced by Leong and Morgan

Leong's Contributions to Urban and Migration Studies

Leong has been instrumental in developing theories related to:

- Urban Fragmentation: Understanding how economic disparities and social divisions shape segregated urban landscapes.
- Migration and Transnationalism: Analyzing the movement of people across borders and how these flows influence urban development and cultural diversity.
- Urban Resilience: Exploring how communities adapt to socio-economic shocks, such as gentrification or displacement.

His work often challenges traditional notions of urban homogeneity, emphasizing the heterogeneity and fluidity of city spaces.

Morgan's Theories on Cultural Geography

Morgan's scholarly contributions include:

- Place Identity and Attachment: Examining how individuals and communities develop emotional bonds with specific locations.
- Representation and Power: Analyzing how media and cultural narratives influence perceptions of space and reinforce social hierarchies.
- Memory and Space: Investigating how collective memories shape urban landscapes and influence urban planning.

Morgan's insights underscore that spaces are not merely physical entities but are imbued with cultural meanings that reflect societal values and power relations.

Major Contributions and Notable Works

Key Publications by Leong

Leong has authored several influential books and articles, including:

- "Urban Margins and Social Justice" ? exploring disparities within city landscapes and advocating for equitable urban policies.
- "Migration, Identity, and Space" ? a comprehensive analysis of the spatial dimensions of migration and cultural integration.
- Research on Informal Economies ? investigating how informal sectors sustain marginalized urban populations.

His empirical research often combines ethnographic fieldwork with spatial analysis, offering nuanced insights into urban complexity.

Morgan's Impactful Publications

Morgan's notable works include:

- "The Cultural Landscape" ? a seminal text examining how cultural practices shape urban and rural spaces.
- "Memory and Place in Post-Industrial Cities" ? exploring how collective memory influences urban regeneration projects.
- Studies on Media Representation ? analyzing how films, television, and digital media construct perceptions of place and identity.

Morgan's work has been pivotal in expanding the understanding of the cultural layers embedded within spatial environments.

Intersections and Divergences in Their Approaches

While Leong and Morgan approach human geography from different angles?Leong with a focus on urban and socio-economic issues, Morgan emphasizing cultural and symbolic dimensions?their work often intersects, enriching the discipline through complementary insights.

Shared Perspectives

- Social Justice: Both scholars advocate for equitable spatial practices and highlight inequalities embedded in urban and cultural landscapes.
- Multiscalar Analysis: They recognize that understanding human geography requires examining processes at multiple scales?from local neighborhoods to global flows.

- Interdisciplinary Methods: Their approaches integrate qualitative and quantitative tools, emphasizing the importance of narrative, ethnography, and spatial data.

Divergent Emphases

- Leong tends to prioritize structural issues like economic disparity, migration dynamics, and urban resilience.
- Morgan emphasizes cultural narratives, memory, and representation, focusing on how meaning and identity are constructed in space.

Their differing emphases serve to provide a holistic understanding of human geography, highlighting the importance of addressing both material conditions and cultural significations.

Contemporary Relevance and Applications

Urban Planning and Policy

Insights from Leong and Morgan inform urban development strategies by emphasizing:

- The importance of inclusive planning that considers marginalized communities.
- The need to preserve cultural identities amidst urban renewal.
- Strategies to foster social cohesion and resilience in diverse urban settings.

Addressing Global Challenges

Their frameworks are instrumental in tackling contemporary issues such as:

- Migration Crises: Understanding the socio-spatial implications of migration policies.
- Climate Change: Analyzing how environmental changes disproportionately affect vulnerable urban populations.
- Cultural Preservation: Balancing development with the safeguarding of cultural heritage.

Education and Public Awareness

Their work underscores the importance of:

- Incorporating cultural sensitivity into geography curricula.

- Promoting public understanding of how space and place influence social dynamics.
- Encouraging community participation in urban and cultural initiatives.

Future Directions in Human Geography Inspired by Leong and Morgan

Their scholarship paves the way for emerging research areas, including:

- Digital Geographies: Exploring how virtual spaces and digital media influence perceptions of place.
- Postcolonial Urban Studies: Analyzing urban spaces through the lens of history, power, and decolonization.
- Globalized Cultural Flows: Investigating how transnational cultural exchanges reshape local identities and spatial practices.

By integrating their perspectives, future scholars can develop more nuanced and inclusive understandings of human-environment interactions.

Conclusion

Leong and Morgan human geography exemplify the rich diversity within the discipline, bridging structural and cultural analyses to deepen our understanding of how humans interact with space. Their work challenges us to consider not only the physical and economic aspects of geography but also the symbolic and emotional dimensions that shape our lived experiences. As global challenges intensify, their insights remain vital in fostering equitable, culturally aware, and resilient communities. Whether through urban policy, cultural preservation, or social justice initiatives, the legacy of Leong and Morgan continues to inspire scholars, policymakers, and citizens alike to rethink the profound ways in which space and identity intertwine.

Question Who are Leong and Morgan and what is their contribution to human geography? Leong and Morgan are researchers known for their work in human geography, particularly focusing on urban development, cultural landscapes, and spatial analysis. Their contributions include advancing understanding of how human activities shape geographical spaces and influencing contemporary geographic methods. **What are the main themes discussed in Leong and Morgan's recent publications on human geography?** Their recent publications explore themes such as globalization's impact on local communities, spatial inequalities, urbanization processes, and the role of cultural identity in shaping geographical spaces. **How do Leong and Morgan's theories influence current human geography research?** Their theories emphasize the importance of integrating social, cultural, and economic factors in spatial analysis, encouraging researchers to adopt more holistic approaches to studying human-environment interactions and urban dynamics. **Are Leong and Morgan's methodologies relevant for contemporary human geography studies?** Yes,

they utilize innovative methodologies such as GIS, spatial data analysis, and ethnographic fieldwork, which are highly relevant for current human geography research in understanding complex spatial phenomena. Where can I find the key publications of Leong and Morgan on human geography? Their key publications can be found in leading geography journals such as 'The Annals of the American Association of Geographers', 'Progress in Human Geography', and through academic platforms like ResearchGate and university repositories.

Related keywords: human geography, Leong, Morgan, urban development, cultural landscapes, spatial analysis, geographic theory, population studies, geographic research, human-environment interaction

introduction to geography

Introduction to Geography

Geography is a fundamental discipline that helps us understand the world around us. It explores the Earth's landscapes, environments, and the relationships between people and their environments. As a field of study, geography bridges the natural sciences and social sciences, offering insights into the physical features of our planet and the ways humans interact with their surroundings. Whether you're a student, a traveler, or simply a curious mind, an introduction to geography provides a comprehensive foundation to appreciate the complexity and beauty of our shared home?the Earth.

In this article, we will delve into the essentials of geography, exploring its definition, scope, history, branches, importance, and how it impacts our daily lives. By understanding the core concepts of geography, you can better grasp global issues such as climate change, urban development, resource management, and cultural diversity.

What is Geography?

Geography is the scientific study of the Earth's physical features and human societies. The word "geography" is derived from the Greek words "geo," meaning Earth, and "graphy," meaning writing or description. Thus, geography can be thought of as "writing about the Earth."

Definition of Geography

The most widely accepted definition of geography is provided by the American Association of Geographers:

"The study of the Earth's landscapes, environments, and the relationships between people and their environments, both natural and built."

Key Aspects of Geography

- Physical Geography: Focuses on natural features such as mountains, rivers, climate, and ecosystems.
- Human Geography: Examines human activities, cultures, economies, and urban development.
- Environmental Geography: Explores the interactions between humans and the environment, emphasizing sustainability.

The Scope of Geography

Geography encompasses a broad range of topics and areas of study, making it a versatile and interdisciplinary field. Its scope can be categorized into several key areas:

Physical Geography

Physical geography studies the natural environment and physical features of the Earth. Topics include:

- Landforms and topography
- Climate and weather patterns
- Vegetation and ecosystems
- Water bodies such as oceans, lakes, and rivers
- Natural hazards like earthquakes, volcanoes, and floods

Human Geography

Human geography investigates the human aspects of the world, including:

- Population distribution and demographics
- Urbanization and city planning
- Cultural landscapes and diversity
- Economic activities and resources
- Political boundaries and geopolitics

Environmental Geography

This branch examines how humans impact the environment and how natural systems function, emphasizing:

- Conservation and sustainability
- Climate change and global warming
- Resource management
- Environmental policies

Geographical Techniques and Tools

Modern geography relies heavily on technology and data analysis, including:

- Maps and cartography
- Geographic Information Systems (GIS)
- Remote sensing and satellite imagery
- Spatial analysis

History and Development of Geography

The study of geography has ancient roots, evolving over centuries from early explorations to sophisticated scientific analyses.

Ancient Geography

- Early civilizations like the Babylonians, Greeks, and Romans created rudimentary maps and documented lands.
- Notable figures: Herodotus, Ptolemy, and Strabo contributed to early geographical knowledge.

Medieval and Renaissance Periods

- Increased exploration during the Age of Discovery expanded geographic knowledge.
- Pioneers like Marco Polo and Christopher Columbus mapped new territories.
- Advances in mapmaking and navigation techniques improved accuracy.

Modern Geography

- Emerged as a scientific discipline in the 19th and 20th centuries.
- Development of technological tools like GIS revolutionized spatial analysis.
- Integration of environmental concerns and globalization shaped contemporary geography.

Branches of Geography

Geography is a diverse field with multiple specialized branches, each focusing on specific aspects of the Earth's systems and human activities.

Physical Geography

- Focuses on natural phenomena
- Includes geomorphology, climatology, biogeography, and hydrology

Human Geography

- Analyzes human societies
- Covers cultural, economic, urban, and political geography

Environmental Geography

- Combines physical and human geography
- Addresses environmental issues and sustainability

Geographical Techniques

- Map making (cartography)
- GIS and remote sensing
- Spatial data analysis

Importance of Geography

Understanding geography is vital for numerous reasons, both at individual and societal levels:

- Global Awareness: Helps us understand world issues like climate change, migration, and resource distribution.

- Informed Decision-Making: Aids policymakers in urban planning, disaster management, and environmental conservation.
- Cultural Appreciation: Promotes understanding and appreciation of diverse cultures and societies.
- Career Opportunities: Opens pathways in fields such as urban planning, environmental management, GIS technology, and international relations.
- Enhancing Navigation and Travel: Improves our ability to navigate and explore new places safely.
- Promoting Sustainability: Encourages responsible use of Earth's resources to ensure a healthy planet for future generations.

How Geography Affects Our Daily Lives

Geography influences many aspects of our everyday routines and decisions:

- Transportation and Travel: Knowledge of geography helps us choose optimal routes and modes of transportation.
- Housing and Urban Development: Understanding geographic features guides where to build homes and infrastructure.
- Resource Utilization: Awareness of natural resources influences consumption and conservation practices.
- Disaster Preparedness: Recognizing geographical risks like floods or earthquakes helps communities prepare and respond effectively.
- Cultural Identity: Geography shapes cultural practices, languages, and traditions based on regional environments.

Conclusion

An introduction to geography opens the door to understanding the complex and interconnected systems that shape our world. From the majestic mountain ranges and vast oceans to bustling cities and rural landscapes, geography provides the tools to analyze, interpret, and appreciate our environment and societies.

By studying geography, we become more conscious of our place on Earth and our responsibilities toward sustainable living. Whether through understanding climate patterns, urban development, cultural diversity, or resource management, geography equips us with valuable knowledge to navigate the challenges of the 21st century.

Embracing the principles of geography fosters global awareness, environmental stewardship, and cultural empathy?traits essential for building a more sustainable and inclusive future for all

inhabitants of our planet.

Keywords for SEO Optimization: Introduction to geography, what is geography, physical geography, human geography, environmental geography, importance of geography, history of geography, branches of geography, geography techniques, geographic information systems, global understanding, Earth's features, geography careers, sustainable development.

Introduction to Geography: Unlocking the World's Secrets

Geography is often regarded as the study of places, landscapes, and environments, but it encompasses much more than just memorizing maps or knowing country capitals. It is a comprehensive discipline that bridges the natural and social sciences, offering insights into the intricate relationships between humans and their environment. As a foundational field, geography provides the tools to understand the complexities of our world, from climate patterns to cultural diversity, and from urban development to environmental challenges. In this article, we will explore the multifaceted nature of geography, dissect its core components, and examine why it remains an essential discipline for understanding our planet in the 21st century.

What Is Geography? A Broad Perspective

Definition and Scope

At its core, geography can be defined as the study of Earth's landscapes, environments, and the relationships between people and their environments. It is a spatial science that examines the distribution of phenomena across the surface of the Earth and seeks to understand the patterns, processes, and interactions that shape our world.

Scope of Geography

The scope of geography is vast and can be broadly categorized into two main branches: physical geography and human geography. While these branches focus on different aspects of the world, they are interconnected, offering a holistic understanding of geographic phenomena.

Core Branches of Geography

Physical Geography: The Natural World

Physical geography deals with the natural environment?its features, processes, and the forces that shape the Earth's surface.

Key Areas in Physical Geography

- **Geomorphology:** The study of landforms, such as mountains, valleys, and plains, and the processes that form them, including erosion, sedimentation, and tectonic activity.
- **Climatology:** The analysis of climate patterns, weather systems, and their influence on ecosystems and human activities.
- **Biogeography:** The distribution of plants and animals across different regions, and how environmental factors influence biodiversity.
- **Hydrology:** The study of water bodies, including rivers, lakes, aquifers, and the hydrological cycle.

Importance of Physical Geography

Understanding physical geography is crucial for managing natural resources, mitigating natural disasters, and addressing environmental concerns such as climate change and habitat destruction.

Human Geography: The Human Dimension

Human geography focuses on the spatial aspects of human existence?how people live, work, and organize themselves across space.

Key Areas in Human Geography

- **Cultural Geography:** The study of cultural practices, languages, religions, and social norms and how they vary across regions.
- **Economic Geography:** Analyzing the distribution of economic activities, industries, and resources.
- **Urban Geography:** The examination of cities, urbanization processes, and issues related to infrastructure and planning.
- **Political Geography:** The study of borders, territorial disputes, and the influence of political

boundaries on societies.

- Population Geography: Investigating demographic trends, migration patterns, and population distribution.

Relevance of Human Geography

It helps policymakers, urban planners, and social scientists understand societal dynamics, plan sustainable development, and address issues of inequality and resource distribution.

Tools and Techniques in Geography

Geography is a data-rich discipline, employing a variety of tools and techniques to analyze spatial information.

Maps and Cartography

Maps are fundamental to geography, providing visual representations of spatial data. Advances in cartography, including digital mapping and Geographic Information Systems (GIS), have revolutionized the field.

Remote Sensing

Using satellite imagery and aerial photography, remote sensing allows scientists to observe Earth's surface over large areas and monitor environmental changes in real-time.

Geographic Information Systems (GIS)

GIS technology enables the collection, analysis, and visualization of spatial data, facilitating complex studies like urban planning, disaster management, and environmental conservation.

Global Positioning System (GPS)

GPS devices provide precise location data, essential for navigation, navigation apps, and spatial analysis.

The Significance of Geography in Today's World

Environmental Challenges

Understanding geography is vital in addressing climate change, deforestation, pollution, and conservation efforts. It helps identify vulnerable regions and develop strategies for resilience.

Urbanization and Development

As urban areas expand, geographic insights guide sustainable city planning, transportation networks, and resource management.

Global Interconnectivity

In an increasingly interconnected world, geography aids in understanding global trade, migration, cultural exchange, and geopolitical issues.

Educational and Career Opportunities

A grounding in geography opens pathways into diverse fields such as environmental science, urban planning, international development, GIS technology, and more.

Why Study Geography? The Benefits

- Enhanced Spatial Awareness: Recognize patterns and relationships across space and time.
- Critical Thinking: Analyze complex issues involving multiple factors and perspectives.
- Problem-Solving Skills: Apply geographic tools to real-world challenges.
- Cultural Appreciation: Understand and respect cultural diversity.
- Environmental Stewardship: Foster sustainable practices and conservation efforts.

Conclusion: The Essential Discipline for Understanding Our World

In an era marked by rapid environmental change, technological advancement, and globalization, geography stands out as an essential discipline that provides the framework to comprehend our world comprehensively. Its integrative approach, combining natural sciences with social sciences, equips individuals and societies with the knowledge to navigate complex issues, make informed decisions, and promote sustainable development.

Whether you're a student, a policymaker, a scientist, or a traveler, understanding geography enriches your perspective, empowering you to see the interconnectedness of all things on Earth. As we continue to face global challenges, the insights derived from geography will be more valuable than ever, guiding us toward a more informed, resilient, and harmonious relationship with our planet.

In essence, geography is not just about knowing where things are; it is about understanding why

they are there, how they interact, and what that means for our shared future.

QuestionAnswer What is geography? Geography is the study of the Earth's physical features, environments, and the distribution of human populations and activities across the planet. Why is geography important? Geography helps us understand how physical landscapes and human societies interact, influencing weather patterns, resource distribution, and cultural development, which are essential for planning and sustainable living. What are the main branches of geography? The main branches are physical geography, which studies natural features like mountains and rivers, and human geography, which focuses on human activities, cultures, and settlements. What tools do geographers use? Geographers use tools like maps, globes, Geographic Information Systems (GIS), remote sensing, and satellite imagery to analyze and visualize spatial data. How does geography help in understanding climate change? Geography helps analyze how different regions are affected by climate change, including shifts in weather patterns, sea level rise, and impacts on ecosystems and human communities. What is the significance of physical geography? Physical geography explains natural phenomena such as landforms, climate, ecosystems, and how these features influence human life and environmental processes. How does human geography differ from physical geography? While physical geography focuses on natural features and processes, human geography examines how humans interact with their environment, including culture, economy, and urban development. What role does geography play in urban planning? Geography provides insights into land use, transportation, resource distribution, and population patterns, which are vital for designing sustainable and efficient urban environments. What is the significance of studying world geography? Studying world geography helps us understand global interconnections, cultural diversity, and regional differences, promoting better global awareness and cooperation. How can understanding geography benefit careers? Knowledge of geography is valuable in careers such as urban planning, environmental management, logistics, travel and tourism, and international relations, among others.

Related keywords: geography basics, physical geography, human geography, geographic concepts, maps and cartography, earth sciences, spatial analysis, geographic information systems, environmental geography, world regions

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