Geography of a Changing World

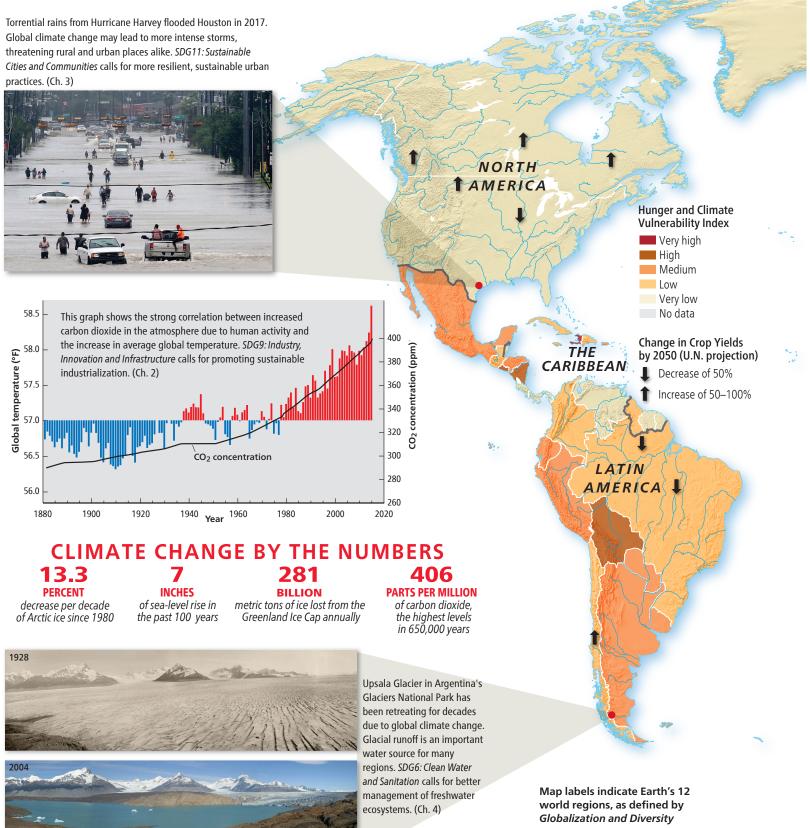
PRICE LEWIS WYCKOFF ROWNTREE



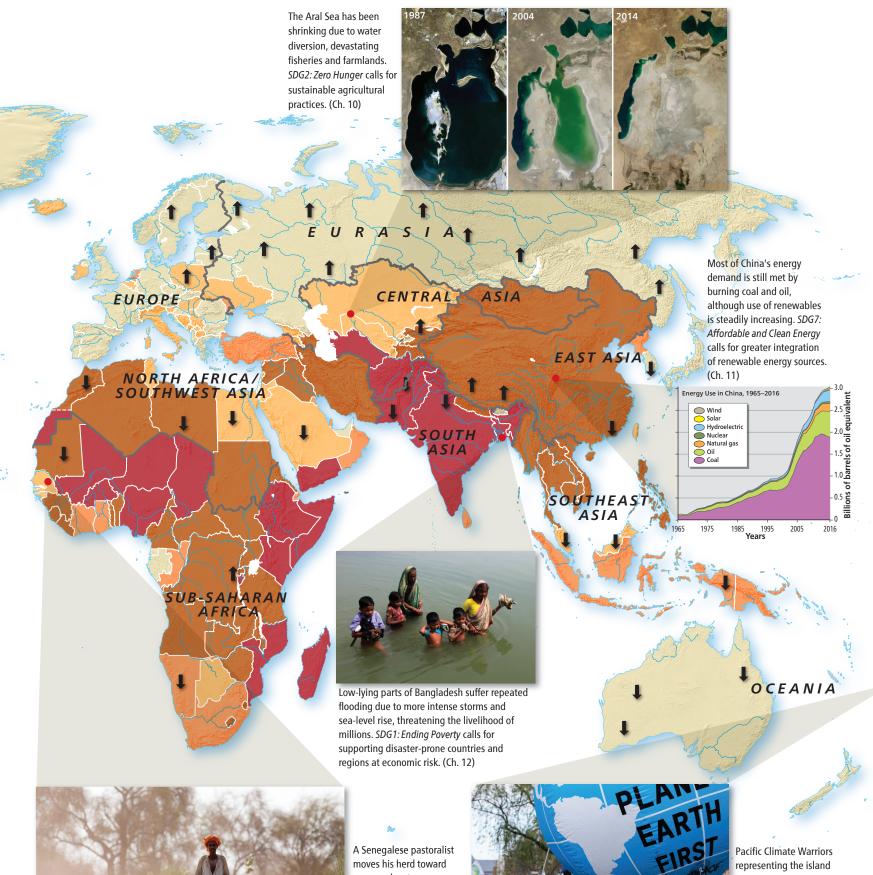
GLOBAL CLIMATE CHANGE, FOOD SECURITY, AND SUSTAINABLE DEVELOPMENT GOALS

Earth's temperature continues to rise due primarily to greenhouse gases (GHG) emitted by human activity. Corresponding environmental changes impact food production as farmlands are damaged or diminished. Food insecurity can lead to poverty, conflict, and mass migration as people look for better living conditions elsewhere.

In 2016, the United Nations adopted Sustainable Development Goals (SDGs) to tackle global issues like climate change and food security through 17 interconnected missions. SDGs challenge every country to promote better living conditions for all while protecting the planet.



Sources: World Food Programme, United Nations FAO, World Health Organization, NASA, NOAA



moves his herd toward

Overgrazing combined

with drought threatens

food supplies in the

Sahel. SDG15: Life on

degredation. (Ch. 6)

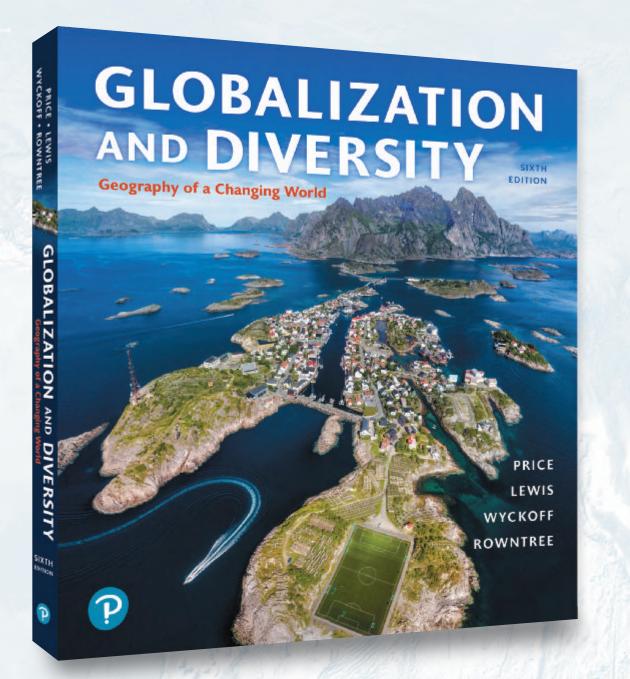
reversing land

Land calls for halting and

grass and water.

Pacific Climate Warriors representing the island states of Oceania march in Bonn, Germany, to protest the loss of land due to sea-level rise. SDG13: Climate Action calls for all countries to support coordinated international responses. (Ch. 14)

Empowering Students to Address Global Issues



Globalization and Diversity, Sixth Edition

The sixth edition has a deep emphasis on humanitarian geography and sustainability, and encourages students to explore the sights, sounds, and tastes of world regions with embedded links to online digital resources.



How Geographers Help Make the World a Better Place

HUMANITARIAN GEOGRAPHY

Unmasking the Tragedy in Flint, Michigan

re 3.1.1 Kick Sadler

Rick Sarther, a geographic and GiS expert at Minyan State University, helped to unsome thereon is of the value crist shall have necerity plagued Thirt, Michigan ITG-ure 3.11. In meritorit to sever money, the state directed the cals shapped city to swhich its waters supply concold lead from these in 2014. Trogledy, the naturally more funded water was not treated poperty. First new earts supply concold lead from de lower and home supply to the load in Hint meter in Lead to the supply concold lead from de lower and home supply to the problem, new periodic for thousand of new-derst, inclucing many children. But initially, no one knew the source of the problem, A local pediatrician supported that the elevated lead lavels in Find children were Enriced to Filte New water, and called on Rick Sarlier, a generapher and GIS export Enloyd to Fillet Elver water, and called on Sadler to examine the data

Remapping the Data Sader quick) realized that the data that state officials used wave based on First 2P coces, larger units that did net mothicity soundaries or represent the readerth deriving the tainte water. "One-third of the addresses with a

Flint 2P code sween't in the city," Sadle' recalls, and used a different water source. Remapping the data by the actual strent addresses of children with eleveted lead levels choreen with elevated ead even revealed a strong correlation with uss of Film Rever water. These older humes often house lead pipes that proved vulnerable to complian and leaching. Satilet's evidence confirmed the server with evidence confirmed the cause of the poisoning. A Flint native, Sadler has been

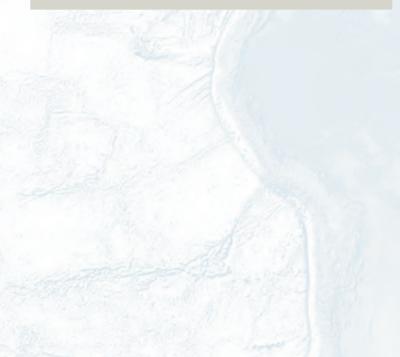
Interested in mapping "as long as I can remember" and enrolled in GS courses as an undergraduate. After returning to Flint, he became known as "the map gup" while working with differ-ent commanity groups. Sadler usys his heart is in issues releasent to the city. "The more it earned about taxes that drove First's decline...the more I felt compelied to not



e 2.1.3 Flint Residents Receive Bottled Wate es tron Full Gogel Churches in Michigan deliver water to exidents of Flint.

UPDATED! Working Toward Sustainability

features explore how the theme of sustainability plays out across world regions, looking at initiatives and positive outcomes of environmental and cultural sustainability. All features are integrated with Quick Response (QR) links to Google Earth® Virtual Tour Videos.



just understand them, but to uncover some of the spatial patterns-to use the tools

that i had learned." Seard on Secler's findings and interne Beaution Seeller's Intology and Internet public outry summanding the entity. Firm returned to a safety water supply. Yet the cruit continues less than 25 percent of the 26,000 affected lead-ich pipeshad beam upgraded by 2017, and contain instead water and its associated effectoremains a daily that lenge for threasends (Figure 1.1.2). Meanwrite: the month house and percenditive supplies that spatial tools and geographic analysis that Sedler employed to confirm the source of the Filmt tragedy have aided legal and criminal proceedings to address liability and seek provimental actics for affected residents

Sedler notes that GIS is applicable to Sadler noins that GLS is applicable to many public health issues, and that a geographer's multicluciplinary approach can be insulable: "This like being a goalle as opposed to being a forward. Et's spec position that not everyone does, but it's absolutely essential"

essential." 1. Why do you think ZIP code zones are often used to map U.S. public health issues?

2. Find a map of local ZIP codes and argue why they may or may not be useful in studying envi-ronmental or social prob-lems. What might be a better unit of analysis?

あたい

NEW! Humanitarian Geography features

demonstrate how geographic tools and approaches improve the human condition when confronted with current challenges such as natural disasters, disease outbreaks, crisis and humanitarian mapping, and Sustainable Development Goals (SDGs).

WORKING TOWARD SUSTAINABILITY Saving the Great Barrier Reef

Saving the Great Bar Scentistic all in the world's single Report expression 47 all single report to strengthing through the acare and tempore intervention world be and for more than 1486 miles (2000 km) off the cost of Couse-shard, the Great Bar ree facet (0881 includes more than 900 small slands and a mynaid of underwater cost usefs) if Equire 11, 11, This remarks the ecosystem in brone to 1500 species of 164, 400 pecies of cost whates, doi-philes, sea subjects tems, and plant species found mosthere dise on Earth Organs to form, the next has been a low world therings in the next has a sub-diment of the more as postered by Andulad Scenet Barner Reef Marine Pair. Barting for Starwaland Scalar Scenets Barting for Starwaland Scalar Scenets

Righting for Survival Today, however, the GBR is in the right of its life. Thanks to

Highling for Survival Toda, tower, the GRI in the Spiri of hill. Thanks to global climate change, the reat has lost more than har is not cover intee 1985, much of it damaged by assesse access interpretations that have accelerated rates of servering actification and could be server in the server interpretation of the server interpretations increased stress from dharging temperatures to the head helpful alges, causing them to some white. Blacked crait may survive but one more susceptible to descent any survive in Duran lange the server of the server optime of the increased runnel of el tous agricultural themsels. Recard plans for expanding could loading deposite at A More for the posities of load maters. On a insee-ful notate, the next continuous to a suge to the specify of local maters. On a insee-ful notate, the next continuous to a suge to mail the posities of local maters. The alters for the top service of local maters. The strengt the posities of local maters. The strengt the specifies and strengt the strengt the posities of local maters. The strengt the specifies and strengt. The strengt the specifies and strengt the specifies and strengt to mater the strengt the specifies access to the strengt the specifies access to the strengt to mater the strengt the specifies access the strengt to mater the strengt the specifies access to the strengt the specifies access to the strengt to mater the strengt the specifies access to the strengt to mater the strengt the strengt the strengt.

Adapting to Change Recently, the Aus trailan povernment piedged over \$100 mil-lion toward improving reef water availity and toward innovations designed to skrw future bleaching episodes. Farmers in nearby Queensland will be paid subsidies. to limit runoff of harmful sedments and agricultural chemicals. Another area of investment is the development of a float-ing, sunscreen-like film that could protect

Coperating variouslable recent by finiting the Namiful rays of linest subject break hashes in the bleach ing protect. Additional momes has been allocated toward suggeoing the come of thours startish which has widely imaded de lacter red system. making them even nore varies and the startist are allow working to develop new generic strains of coroll that may be more resistent togolobil charate damage and load libe ased to respective damaged settings.

to respekte damaged settings. Srill, the korperan cary for the GBP will provide the upon respon-date choice are development along the Querectional cost as well as the further global-scale impacts of onesis. In addition, better areful around gata set. In addition, better areful around gata and a set the settil bit recommission and use of highsatellite recommissions and use of high-tech drones) of the Marine Park may monitor regue fielding vessels more effectively in the buture. For now, the reef's survival



A Figure 14.1.1 Australia's Great Barrier Reef Off the eastern coast of Australia. the Grast Samer liver stratistics for more than 1900 miles (2000 km) through the Conal Sea.

> hange in the balance, a giant poster child for a long list of carnaging human impacts that threaten the environmental health of the entire South Pacific.

New might account development in Queencland percent while at the same time preserving the environ-mental health of the OBNU 2. Gits a fragile and protected anyi-ronmental area in your region and briefly cutline future prospects for its aurural.

假設



A Florero 14.1.2 Great Barrier Reef's Diverse Econstern. This underses size c) the Great Barrier Real features yellow sea-fan cores, acceptes therd and white could, and pagele arritrae (field).

Connecting the Global to the Local

GLOBALIZATION IN OUR LIVES Putin May Want to Be Your Friend

their veracity or sources.

Russian operatives, Internet trolls, and hackers conducted a sustained campaign to influence the U.S. presidential election in 2016, according to the CIA, FBI, and the National Security Agency. These efforts included running anti-Clinton propaganda on Russian media outlets, hacking Democratic Party emails, and releasing these materials via WikiLeaks, and posting pro-Trump and politically divisive ads on a variety of social media that many of us use every day.

The abuse of social media platforms included Twitter, Facebook, Google, and Instagram, and was a reminder of the vulnerability of these virtual communities. More than 2700 fake Twitter accounts and 36,000 bots churned out pro-Trump tweets and political posts. Russian operatives purchased 80,000 Facebook ads that reached over 125 million users. The Russian-backed "Internet Research Agency" was the source of many of these bogus ads, but a lack of regulations and oversight at the time prevented many people from questioning

Finally, Facebook CEO Mark Zuckerberg, aware that the Russians had outfoxed him, put in place more security measures designed to catch future abuses (Figure 9.4.1).

Russia's global reach into national elections is nothing new, but the pace of cyber-interference in the world of social media and computer hacking has accelerated since 2014. Russia has also used its superiority in the cyberworld to attempt

to influence elections in the United Kingdom, Germany, France, and elsewhere. Has it worked? No one knows, but the next time you jump on your favorite social media site, you may be closer to your Russian comrades than you know.

1. What geopolitical advantages might Russians hope to gain by



Figure 9.4.1 Mark Zuckerberg, Facebook CEO Following the 2016 U.S. Presidential election, Zuckerberg and Facebook were criticized after it was revealed that Russian operatives had misused American social media during the campaign.

why not?

interfering with elections in western Europe and the United States? 2. Are you vulnerable to being influenced by unethical ads or posts on your social media sites? Why or

NEW! Globalization

in Our Lives features explore common familiar commodities, cultural norms, activities, or popular culture that could be in a college student's experience or social network, showing how globalization connects their behavior or consumption across world regions.

UPDATED! Exploring Global Connections

features describe unexpected and often surprising connections across world regions, leveraging recent events and coverage of cultural and environmental topics. All features are integrated with QR links to Google Earth Virtual Tour Videos.



High in a semote corner of the Ander, where Bolinia, Argentina, and Onle meet, is the largest known reserve of lithium in the world. This soft, reserve of influences the words. This soft, intervalia is negatively and the soft of the soft mean in ignitively thattaries, like those that power cell phones and laptops. It is also a key metal for electric vehicle table testiss and photovoitals cells. Companies such as Teols, summang, and Apple are keenly assare of the cost and scarcity. of lithium, which could greatly benefit here developing economies. Yet power ng more than half of the world's lithiur conly thep one—being able to extract

it for global markets has been the allenge. Lithium is found under salt flats Lithium is found under sait that in South America's Altiplano region, at elevations of up to 13,000 ft (Fig-ure 4.4.1). Miners mint extract the lithium-bearing brine from wells switch deep below the sait crust and then deposit the liquid inco wapporation ponds to let the sun do its work. Once we baland the competition is shown. sun-baked, the concentrate is taken for processing into lithium carbon-ate. South America's lithium boom thus far has been kindered by a lack of technology and capital, as well as national laws

that designate lithium a strategic metal and therefore limit investment from foreign companies.

Bolleia and Argentina have Argentina have the largest known reserves, but Aus-tralia is the leader producer, followe by Chile, China daled, the powdery substance is shipped and processed into lithium.

rounds out the top five lithium source countries.

Increased foreign investment in littleum extraction around Julya province. In 2016, it produced balls as much littleum as Chile. Boliva, which may have the largest reserver under the Salar de Uguni salt flat, has yet to become a significant producer. This is partly due to the state's tight control of the account and the states of finance. Countries. For decades, Chile has been the region's export laader, sending Dihium carbonate primarily to mana-This is party over to the state significant outpeop of the resource and the warkness of foreign investors to engage in this country, which is noted for nationalizing key resources such as natural gios. As far as Bolinkians are con-cerned, they need only look to the needby mountain of Brock, whose while financed Spatial colonization of the America, to indextated the country a submersion door. facturiers in South Krinea China, and Japan. The Atacar salt Bats have the highest quality reserves, and ports such as Antofagasta

ment in mining.

Argentina is trying to catch up through

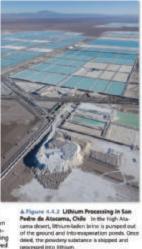
understand that owning a resource does not mean profiting from it. inder al Arrobugarta are relatively dose (Figure 4.4.2). More-over, Chile's neokb-eral policies have been more open to foreign invest-

1. What are the factors that make Chile the leading South American exporter of lithium?

2. What are the products that you that need lithium to function?



re 4.4.1 Lithium Mining in South America The largert fithium Bolinia, Chile, and Argentina r lightweight taitheries used in cell ally in the Sillare feetd wtal to



A Structured Learning Path to Support Today's Students



Physical Geography and Environmental Issues

China has long experienced severe deforestation and soil erosion, and its current economic boom is generating some of the world's worst pollution problems. Japan, South Korea, and Taiwan, however, have extensive forests and relatively dean environments.



Population and Settlement

Low birth rates and aging populations are found throughout East Asia. China is currently undergoing a major transformation as tens of millions of peasants move from impoverished villages in the interior to booming coastal cities.



Cultural Coherence and Diversity

Despite several unifying cultural features, East Asia in general and China in particular are divided along striking cultural lines. Historically, however, the entire region was linked by Mahayana Buddhism, Confucianism, and the Chinese writing system.



Geopolitical Framework China's growing power is generating tension with other

China's growing power is generating tension with other East Asian countries, while Korea remains a divided nation. As China's global influence grows, Japan, South Korea, and Taiwan are responding by strengthening ties with the United States.



Economic and Social Development

East Asia has been a core area of the world economy for several decades, with China undergoing one of the world's most rapid economic expansions. North Korea, however, remains desperately poor, plagued by widespread mainutrition.

UPDATED! Region-specific

Learning Outcomes in each chapter's opening pages outline the knowledge and skills that students should gain from each chapter.

UPDATED! Critical Themes of Geography

Following two unique introductory chapters, each regional chapter is organized into five thematic sections, making navigation and cross-regional comparisons easy for students and instructors. Themes include Physical Geography and Environmental Issues, Population and Settlement, Cultural Coherence and Diversity, Geopolitical Framework, and Economic and Social Development.

LEARNING OBJECTIVES

After reading this chapter you should be able to:

- 11.1 Contrast the physical geographies of the islands of East Asia (Japan and Taiwan) and the mainland.
- 11.2 Describe the main environmental problems China faces today and compare them with environmental challenges faced by Japan, South Korea, and Talwan.
- 11.3 Explain why China's population is so unevenly distributed, with some areas densely settled and others almost uninhabited.
- 11.4 Summarize the distribution of major urban areas on the map of East Asia and explain why the region's largest cities are continuing to grow.
- 11.5 Describe how religion and other systems of belief both unify and divide East Asia.
- 11.6 Explain the distinction between, and geographical distribution of, the Han Chinese and the other ethnic groups of China, paying particular attention to language.
- 11.7 Outline the geopolitical division of East Asia during the Cold War era and explain how that division still influences East Asian geopolitics.
- 11.8 Identify factors behind East Asia's rapid economic growth in recent decades and discuss possible limitations to continued expansion at such a rate.
- 11.9 Summarize the geographical differences in economic and social development found in China and across East Asia as a whole.

UPDATED! Two Review Questions at the end of each section help students check their comprehension as they read, and are followed by a listing of the key terms from each section, reinforcing the key concepts from each chapter section.

REVIEW

- 11.3 Why does East Asia import so much of its food and natural resources from other parts of the world?
- 11.4 Describe how the urban landscape of China is currently changing.

KEY TERMS anthropogenic landscape, hukou, urban primacy, megalopolis

REVIEW

- 11.9 How has the process of economic development been similar in Japan, South Korea, Taiwan, and China since the end of World War II, and how has it differed in each country?
- 11.10 Why do levels of social and economic development vary so extensively from the coastal region of China to its interior provinces?

KEY TERMS chaebol, laissez-faire, Special Economic Zone (SEZ), World Trade Organization (WTO), One Belt, One Road, social and regional differentiation, rust belt

Develop 21st Century Skills

NEW! 2-page Review, Reflect, & Apply Sections at the end of each chapter provide a robust interactive review experience, including a concise chapter summary, Review Questions that bridge multiple chapter themes, Image Analysis questions, new Join the Debate activities, new Geospatial Data Analysis activities, as well as QR links to Geographers at Work profiles.

NEW! Join the Debate presents two sides of a complex topic to engage students in active debate around the most critical topics of geography today. Join the Debate can be used for homework, group work, and discussions.

The speed at which capital to transferred rate lead to invisibility in global financial markets.

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Geography of a **Changing World REVIEW, REFLECT, & APPLY**

Summary

- Gaugespley in the study, of itselfs' sorred and changing tanks ages and environments. This study can be dow conceptually a many till-ference ways, by plossed or human prography and ridnes topically or regionally—on by using a combination of all these approaches.
- Globalization allocts all aspects of world geography with its economic, tailment, and political interconnectivity. However, despite incus that globalization will produce a home-geneous world, a groot dual of diversity is self.

Review Questions

- Define grogosphy. They define globalization and explain its relevances to understanding the world's changing geography.
- What are the benefits of GK. GPS. and satellite imagery in being able to masti-tor charge and ingeness surrainability in a given place?

Image Analysis

Figure IA1 Paneign

Ditis private totelige capital

The flow of increasing capital to remote parts of the planet is a feature of ros-news, global ratios. Which regions of the world receive relatively high foreign direct

apparent. Gauge phore case various back that draw not information gathered on the gound and by satellitry to cuantum the world at di-librant scalars, from an incorrectly, black to the entire planet. House populations around the would as

proving other quickly or slowly depending on natural increase and widely different migra-tion patterns. Urbanization is also a major la-ter to scollengeli patterns on people continue sconnes. From rund to artica loceles.

 Summarize general regulation torouts anno the world; and explain how these are leftly enced by and are impacting demographic, cultural; accessing, and political change. billy developing country's population tors from Table 1.2 change due to i will being of its people? Explain the nation-state sensept and pre-vide scampter, is it still selenge of plobalization?

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Join the Debate

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- Globalization advances social Technological activators level the global play-ing field and allow more people to regage in reconnect activity and tradu.
- With open markets, does not fover berriers, increasing, the effective of goods production and reducing the price of goods.
- Open communics tend to be more also reate and more tolement of diversity a hore less gender inequality. and a

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Mastering Geography

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GeoSpatial Data Analysis

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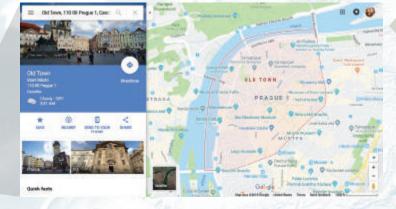
NEW! GeoSpatial Data Analysis

activities send students to online data sources to collect, prepare, and analyze spatial data using MapMaster 2.0.

The Sights, Sounds, & Tastes of World Regions



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NEW! Sights of the Region

features link photos and maps to dynamic online Google Maps that include community contributed photos, empowering students to explore the places and spaces that make up world regions.

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Recipes by Region

Massive Glacier Wall Collapse

NEW! Sounds of the Region features give students access to audio of regional music, language, and nature.



A Figure 9.29 Osh This savory Central Asian dati—a mis of rice, meat, respetables, and spice—Is a common sight in Mosow a linerigrant from Vizekina hing their Central Asian food traditions to the Russian capital.



Favoritos

Travel

Restaurants

About

NEW! Tastes of the Region

features help students explore the geography and politics of food in each region, and include links to regional dishes and recipes.

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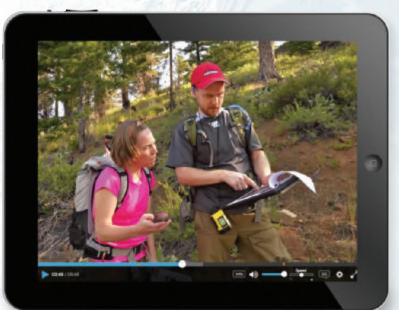


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countries such as Cinita Riza and Brazil has yielded both popular and publical repport for "gramt" initiatives. In obstr, Latia Americans have entered the 21st sentary with a real opportunity in avoid many of the emissionerential mintakes easy in other world regime. At the same time, global market frees are driving processments to exploit minerals, itsuid helis, invests, sharelines, transportation mutue, and soils. The region's biggest resource management challenges in to believe the occursed benefits of estension with the principles of soutaurable decomposition process and and and an entered to exploit minerate the conformation of soutaurable decomposition.

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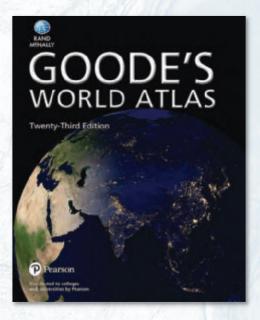
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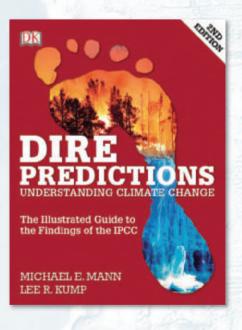
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GLOBALZATION AND DIVERSITY

GEOGRAPHY OF A CHANGING WORLD

SIXTH EDITION

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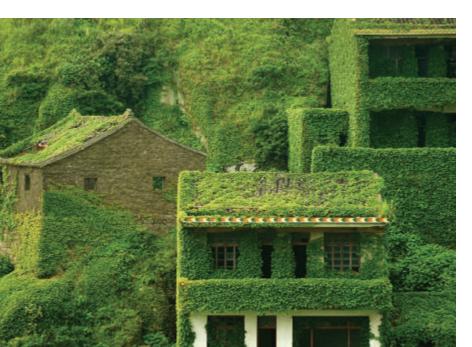
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