

MARK BOYLE

HUMAN GEOGRAPHY

AN ESSENTIAL INTRODUCTION

SECOND EDITION



WILEY Blackwell

HUMAN GEOGRAPHY

About the Companion Website

The *Human Geography: An Essential Introduction* Second Edition companion website includes a number of resources created by the author that you will find helpful when reading this book.

www.wiley.com/go/boyle

For students:

- Student tutorial exercises

For instructors:

- Specimen module outline for Human Geography 101 courses
- Additional essay-style exam questions
- A multiple-choice exam paper
- PowerPoint slide lectures for each chapter
- Comprehensive Mp4 and Mp3 recorded lectures by the author for each chapter.

HUMAN GEOGRAPHY

MARK BOYLE

An Essential Introduction

Second Edition

WILEY Blackwell

This edition first published 2021
© 2021 John Wiley & Sons Ltd

Edition History

Second Edition © 2021 John Wiley & Sons Ltd

First Edition © 2015 John Wiley & Sons Ltd

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, except as permitted by law. Advice on how to obtain permission to reuse material from this title is available at <http://www.wiley.com/go/permissions>.

The right of Mark Boyle to be identified as the author of this work has been asserted in accordance with law.

Registered Offices

John Wiley & Sons, Inc., 111 River Street, Hoboken, NJ 07030, USA

John Wiley & Sons Ltd, The Atrium, Southern Gate, Chichester, West Sussex, PO19 8SQ, UK

Editorial Office

9600 Garsington Road, Oxford, OX4 2DQ, UK

For details of our global editorial offices, customer services, and more information about Wiley products visit us at www.wiley.com.

Wiley also publishes its books in a variety of electronic formats and by print-on-demand. Some content that appears in standard print versions of this book may not be available in other formats.

Limit of Liability/Disclaimer of Warranty

The contents of this work are intended to further general scientific research, understanding, and discussion only and are not intended and should not be relied upon as recommending or promoting scientific method, diagnosis, or treatment by physicians for any particular patient. In view of ongoing research, equipment modifications, changes in governmental regulations, and the constant flow of information relating to the use of medicines, equipment, and devices, the reader is urged to review and evaluate the information provided in the package insert or instructions for each medicine, equipment, or device for, among other things, any changes in the instructions or indication of usage and for added warnings and precautions. While the publisher and authors have used their best efforts in preparing this work, they make no representations or warranties with respect to the accuracy or completeness of the contents of this work and specifically disclaim all warranties, including without limitation any implied warranties of merchantability or fitness for a particular purpose. No warranty may be created or extended by sales representatives, written sales materials or promotional statements for this work. The fact that an organization, website, or product is referred to in this work as a citation and/or potential source of further information does not mean that the publisher and authors endorse the information or services the organization, website, or product may provide or recommendations it may make. This work is sold with the understanding that the publisher is not engaged in rendering professional services. The advice and strategies contained herein may not be suitable for your situation. You should consult with a specialist where appropriate. Further, readers should be aware that websites listed in this work may have changed or disappeared between when this work was written and when it is read. Neither the publisher nor authors shall be liable for any loss of profit or any other commercial damages, including but not limited to special, incidental, consequential, or other damages.

Library of Congress Cataloging-in-Publication Data

Names: Boyle, Mark, author.

Title: Human geography : an essential introduction / Mark Boyle.

Description: Second edition. | Hoboken, NJ : Wiley-Blackwell, 2021. |

Includes bibliographical references and index.

Identifiers: LCCN 2020042464 (print) | LCCN 2020042465 (ebook) | ISBN

9781119374718 (paperback) | ISBN 9781119374725 (adobe pdf) | ISBN

9781119374695 (epub)

Subjects: LCSH: Human geography.

Classification: LCC GF41 .B69 2021 (print) | LCC GF41 (ebook) | DDC

304.2–dc23

LC record available at <https://lcn.loc.gov/2020042464>

LC ebook record available at <https://lcn.loc.gov/2020042465>

Cover Design: Wiley

Cover Image: © Tetra Images/Getty Images

Set in 9.75/12pt Plantin by SPi Publisher Services, Pondicherry, India

Take up the White Man's burden
Send forth the best ye breed
Go send your sons to exile
To serve your captives' need
To wait in heavy harness
On fluttered folk and wild
Your new-caught, sullen peoples,
Half devil and half child.

*Rudyard Kipling, "The White Man's Burden:
The United States and the Philippine Islands" (1899)*

O wad some power the giftie gie us
To see oursels as ithers see us!
It wad frae mony a blunder free us,
An' foolish notion:
What airs in dress an' gait wad lea'e us,
An' ev'n devotion!

*Robert Burns, "To a Louse: On Seeing
One on a Lady's Bonnet, at Church" (1786)*



Plate x.1 To infinity and beyond! “Broad, wholesome, charitable views of men and things cannot be acquired by vegetating in one little corner of the earth all of one’s lifetime.” - Mark Twain.
Source: Matthew Henry on Unsplash.

Contents

List of Figures	xv
List of Plates	xvii
List of Maps	xx
List of Tables	xxii
Acknowledgments	xxiii
List of Abbreviations	xxvi
A Guide to Reading the Second Edition of Human Geography: An Essential Introduction	xxix
1 Introducing Human Geography	1
Chapter Learning Objectives	1
Introduction	2
What Is Human Geography?	3
One Planet, Many Cultures, Unconscionable Inequality	9
<i>The Origins of Our Unequal World: The Rise, Reign, and Faltering of the West</i>	9
<i>Four Theories Explaining the Rise, Reign, and Faltering of the West</i>	15
Conclusion	20
Checklist of Key Ideas	21
Chapter Essay Questions	21
References and Guidance for Further Reading	22
Website Support Material	23
2 Human Geography: A Brief History	24
Chapter Learning Objectives	24
Introduction	25
Telling the Story of the History of Human Geography	26
Human Geography in the Premodern Era	34
Human Geography in the Modern Era	35
<i>Early Modern Period</i>	35
<i>Modern Period</i>	38
<i>Late Modern Period</i>	43

Human Geography in the Postmodern Era	47
<i>Postmodern Human Geography: On Relativisers and Responsibility</i>	47
<i>Postfoundational and Anti-Relativist Human Geographies</i>	48
<i>Human Geographies in Real Time: Geocomputation and Spatial Data Science</i>	51
Conclusion	53
Checklist of Key Ideas	54
Chapter Essay Questions	55
References and Guidance for Further Reading	55
Website Support Material	57
3 Big History: Watersheds in Human History	58
Chapter Learning Objectives	58
Introduction	59
Introducing Big History: From the Big Bang to the Sixth Mass Extinction!	59
First Watershed: The Origins of the Human Species	60
Second Watershed: First Migrations and the Peopling of the Planet	64
Third Watershed: The Development of Human Culture and Invention of Settled Agriculture	71
Fourth Watershed: The Rise and Fall of Civilizations	78
Fifth Watershed: The Rise of Western Civilization from the Tenth Century BCE?	82
Conclusion	85
Checklist of Key Ideas	86
Chapter Essay Questions	87
References and Guidance for Further Reading	87
Website Support Material	89
4 The Commanding Heights: A Brief History of the European World Capitalist Economy from 1450	90
Chapter Learning Objectives	90
Introduction	91
Key Concepts: Global Commodity Chains, Value Chains, and Production Networks	91
The Rise of the European World Economy, 1450–1945: Wallerstein’s World-Systems Analysis	93
The Fate of the European World Economy After the Age of Empire	97
<i>Stabilizing Capitalism: Parisian Regulation Theory</i>	98
<i>The Thirty Glory Years of Capitalism in the Core: The Fordist-Keynesian Compromise (1945–1975)</i>	99
<i>An Early Response: The New International Division of Labor (NIDL)</i>	101
Boom and Carnage in the Core: The Neoliberal Juggernaut (1979–Present)	106
2050: Toward a Fourth Industrial Revolution (IR4)?	112
Conclusion	118
Checklist of Key Ideas	119

Chapter Essay Questions	120
References and Guidance for Further Reading	120
Website Support Material	122
5 Power: The Governmental Machine of the West	123
Chapter Learning Objectives	123
Introduction	124
Power: The Governmental Machine of the West	124
The Rise (and Fall?) of the “European” Nation-State	128
<i>Beyond Medieval Polities: The Rise of the “European”</i>	
<i>Nation-State from 1648 and 1848</i>	128
<i>Is the Sovereign Nation-State Obsolete? Back to Medieval Polities?</i>	132
Europe’s Nation-States and Empires: Europe’s Scramble	
for the World	136
<i>The Age of European Empires</i>	136
<i>Case Study: Europe’s Scramble for Africa</i>	141
American Empire: The Eagle, the Bear, the Theocrat,	
and the Dragon	147
Conclusion	154
Checklist of Key Ideas	154
Chapter Essay Questions	155
References and Guidance for Further Reading	155
Website Support Material	158
6 Worlds of Meaning: Power, Landscape, and Place	159
Chapter Learning Objectives	159
Introduction	160
Enlightenment(s): The West’s Culture(s)	161
Cultural Geography and the Study of Western Culture	163
<i>Sauerian Cultural Geography: Culture as a Superorganism</i>	163
<i>New Directions in Cultural Geography from the 1980s</i>	165
<i>Social Formations and Symbolic Landscapes</i>	166
The West in the Cultural Landscape:	
On the Imperialism of the Straight Line	168
<i>Hausmann’s Paris: The Capital City of Modernity</i>	168
<i>L’Enfant and McMillan’s Washington, DC, and National Mall</i>	169
Worlds of Meaning: Landscapes of Power and Living Landscapes	172
<i>The Ville and the Cité: Building and Dwelling in Western Spaces</i>	172
<i>Case Study 1: The Metropolis and the Mind: Early Conjectures</i>	175
<i>Case Study 2: Beyond the Pale – Clean Lines and Crooked Colonies</i>	177
<i>Case Study 3: Slums and Projects: The African-American</i>	
<i>Search for a Sense of Place</i>	183
Conclusion	186
Checklist of Key Ideas	186
Chapter Essay Questions	187
References and Guidance for Further Reading	187
Website Support Material	190

7	(Under)Development: Challenging Inequalities Globally	191
	Chapter Learning Objectives	191
	Introduction	192
	Market Fundamentalism and the Promise of Convergence	194
	Tracking and Mapping Development and Human Welfare from 1800	195
	<i>Geographies of Human Development and Poverty from 1800</i>	197
	<i>Geographies of Income and Wealth Inequality from 1800</i>	204
	A Brief Annotated History of Development Theory and Practice	209
	<i>The Western Tradition of Development Theory and Practice</i>	209
	<i>Challenging Inequalities Globally in the Twenty-First Century</i>	216
	<i>Development Alternatives and Alternatives to Development</i>	220
	Conclusion	222
	Checklist of Key Ideas	223
	Chapter Essay Questions	224
	References and Guidance for Further Reading	224
	Website Support Material	228
8	10 000 000 000: The Modern Rise in World Population from 1750	229
	Chapter Learning Objectives	229
	Introduction	230
	Introduction to the Demographic Transition Model	231
	Histories and Geographies of Demographic Transitions	234
	The Demographic Transition Model and Mortality Decline	240
	<i>Explaining Mortality Decline</i>	240
	<i>Policies for Improved Global Health</i>	244
	The Demographic Transition Model and Fertility Decline	247
	<i>Explaining Fertility Decline</i>	247
	<i>Policies for Lowering and Increasing Fertility Levels</i>	249
	Demographic Transition: The Case of China from 1949	250
	Conclusion	258
	Checklist of Key Ideas	259
	Chapter Essay Questions	259
	References and Guidance for Further Reading	260
	Website Support Material	262
9	A Planet in Distress: Humanity's War on the Earth	263
	Chapter Learning Objectives	263
	Introduction	264
	Perspectives on Humanity's War on the Earth	264
	<i>The Pessimists: Rediscovering Malthus in the Age of the Anthropocene</i>	264
	<i>The Optimists: Cornucopians and the Age of Green Technology and Clean Growth</i>	269
	<i>The Political Ecologists: Marx in the Age of the Capitalocene</i>	271
	A Planet in Distress: The Global Climate and Ecology Crisis	273
	<i>Global Warming: Decarbonizing Our Overheating Planet</i>	274
	<i>Biodiversity: Avoiding a Sixth Mass Extinction</i>	278
	<i>Air Quality: Detoxing the Air We Breathe</i>	282

<i>Growing Waste: From “Cradle to Cradle”</i>	282
<i>Water Insecurity: Water, the New Gold?</i>	284
Case Study: Tackling the Global Climate and Ecological Crisis in the Liverpool City Region	285
A New Model of Political Economy for a Cleaner and Greener Planet Earth?	289
Conclusion	291
Checklist of Key Ideas	291
Chapter Essay Questions	292
References and Guidance for Further Reading	292
Website Support Material	295
10 <i>Homo urbanus</i>: Urbanization and Urban Form from 1800	296
Chapter Learning Objectives	296
Introduction	297
The Modern Rise of the City from 1800	298
<i>Europe, Capitalism, Industrialization, Urbanization, and the Industrial City</i>	298
<i>The Form of the Industrial City: The Chicago School of Urban Sociology and Beyond</i>	302
<i>The Creative Destruction of the Industrial City: Insights from Glasgow</i>	306
Mapping the Urban Age	312
Urban Form After the Age of the Industrial City:	
The Shape of Things to Come?	315
<i>Megalopolis: From Cities to Networks and Urban Galaxies?</i>	316
<i>Los Angeles: The 100-Mile City and Our Postmetropolis Future?</i>	316
<i>Slums in the Global South: Urbanization Without Industrialization?</i>	318
<i>China’s Instant Megacities: State-Orchestrated Urbanization?</i>	321
Planetary Urbanization: Urban Studies After the Age of the City?	323
Conclusion	325
Checklist of Key Ideas	325
Chapter Essay Questions	326
References and Guidance for Further Reading	326
Website Support Material	329
11 The Walling of the West: Migration, Hospitality, and Settling	330
Chapter Learning Objectives	330
Introduction	331
The Great Human Diasporas	332
<i>Diaspora (Διασποράς)</i>	332
<i>Case Study: The Atlantic Slave Trade and African Diaspora in the Americas</i>	333
Global Migration Stocks and Flows: Definitions, Patterns, and Trends	341
Rethinking Integration: On the Politics of Hospitality	347

<i>Host Country Integration: Policies and Outcomes</i>	347
<i>Thinking Integration: Assimilation, Multiculturalism, Diaspora Space, and Securitization</i>	350
<i>Rethinking Integration: Migrant Settling and Settling Services</i>	354
Case Study: The Syrian Refugee and IDP Crisis	355
Conclusion	361
Checklist of Key Ideas	361
Chapter Essay Questions	362
References and Guidance for Further Reading	362
Website Support Material	365
12 At Risk: Hazards, Society, and Resilience	366
Chapter Learning Objectives	366
Introduction	367
Global Risks: Hazards by Likelihood and Impact	367
Understanding Risk: What Causes Hazards to Become Disasters and Disasters to Become Catastrophes?	370
<i>Gilbert White: Pioneering Human Geographical Interest in Natural Hazards</i>	370
<i>When Hazards Become Disasters: Risk = Hazard × Vulnerability</i> ($R = H \times V$)	372
Mapping the World at Risk	375
Disaster Risk Reduction: What Stops Hazards from Becoming Disasters and Disasters from Becoming Catastrophes?	382
<i>The Sendai Framework for Disaster Risk Reduction 2015–2030</i>	382
<i>Resilience Politics: Robustness, Recovery, Reform, or Redesign?</i>	388
Conclusion	394
Checklist of Key Ideas	395
Chapter Essay Questions	396
References and Guidance for Further Reading	396
Website Support Material	398
13 Remaking the West, Remaking Human Geography	399
Chapter Learning Objectives	399
Introduction	400
Summary: Making the West, Making Human Geography	401
Remaking the West	405
Remaking Human Geography	409
Remaking the West, Remaking Human Geography	413
Conclusion	422
Checklist of Key Ideas	422
Chapter Essay Questions	423
References and Guidance for Further Reading	423
Website Support Material	426

Coda on Covid-19	428
Coda Learning Objectives	428
Covid-19: The West's Barium Meal?	429
Covid-19's Unexpected Geographies	432
Explaining Covid-19's Geographies: Risk = Hazard × Vulnerability	433
<i>Exposure to Covid-19: Uneven Geographies of Viral Load</i>	434
<i>Vulnerability to Covid-19: Susceptibility, Adaptation, and Coping</i>	436
<i>Vulnerability Wrought by Socio-structural Disadvantages</i>	
<i>and Heightened Susceptibility</i>	437
<i>Vulnerability Wrought by Weak Institutional Capacity for Advanced</i>	
<i>Adaptation and Preparation</i>	439
<i>Vulnerability Wrought by Poor Coping and the Speed, Quality, and</i>	
<i>Efficacy of Government Responses</i>	441
Commentary: Disentangling Covid-19's Complex Causality	442
Covid-19: A Portal to Another World?	447
Checklist of Key Ideas	450
Chapter Essay Questions	450
References and Guidance for Further Reading	450
Website Support Material	451
Glossary	452
Index	463

List of Figures

Figure x.1	The golden thread that binds Human Geography: An Essential Introduction.	xxxviii
Figure 2.1a	Richard Peet’s “octopus” depiction of changing approaches in human geography.	29
Figure 2.1b	Disciplinary spaces: a map of changing approaches within human geography by Chris Philo.	30
Figure 2.2	A framework for making sense of the history of human geography.	33
Figure 2.3	Spatial Science or Nazi Spatial Planning? Christaller’s Central Place Theory (1933), applied to Süddeutschland, Germany.	45
Figure 3.1	Timeline of world and human history.	61
Figure 4.1	Top 10 companies embroiled in the global rubber industry, by stage in the division of labor.	95
Figure 4.2	The Skolkovo innovation ecosystem, Moscow.	118
Figure 5.1	Key works by Michel Foucault and Giorgio Agamben.	126
Figure 7.1	Declining global poverty: share of people living in extreme poverty, 1820–2015.	197
Figure 7.2	The relative importance of within- and between-country income inequality, 1820–1992.	198
Figure 7.3	Methodology for calculating the UNDP Human Development Index.	199
Figure 7.4	Number of poor (based upon IPL of US\$1.90) by world region, 1990–2030.	202
Figure 7.5	Share of total income going to the top 1% since 1900, before taxes and transfers.	206
Figure 7.6	The elephant curve of global inequality and growth, 1980–2016.	207
Figure 7.7	Income inequality for a select number of important economies, 1980–2015.	208
Figure 7.8	Rostow’s “noncommunist” model of the stages of economic development.	215
Figure 7.9	United Nations Sustainable Development Goals (SDGs) (2016–2030).	217
Figure 8.1	World population growth from 10 000BCE.	230
Figure 8.2	The classic Demographic Transition Model.	232
Figure 8.3a	World population growth, 1950–2100: medium-variant scenario with 95% confidence interval.	237
Figure 8.3b	Crude death rates (CDRs) and crude birth rates (CBRs), 1950–2100: medium-variant scenario with 95% confidence interval.	237

Figure 8.4	Population by United Nations Sustainable Development Group (SDG): estimates, 1950–2020, and medium-variant projection with 95% prediction intervals, 2020–2100.	238
Figure 8.5	Rankings of the world's 10 most populous countries, 1990 and 2019, and medium-variant projections for 2050 and 2100 (numbers in parentheses refer to total population in millions).	239
Figure 8.6a	DALYs lost by cause, 1990 and 2017: Global.	241
Figure 8.6b	DALYs lost by cause, 1990 and 2017: World Bank high-income countries.	242
Figure 8.6c	DALYs lost by cause, 1990 and 2017: World Bank low-income countries.	243
Figure 8.7	Huw Jones on the determinants of fertility.	248
Figure 8.8	China's passage through demographic transition, 1949–2100.	251
Figure 8.9	Politics, leaders, and population policies in China from 1949.	254
Figure 8.10	Population pyramids for China: 1950, 1975, 1990, 2020, 2050, and 2100.	257
Figure 9.1	Planetary boundaries and doughnut economics.	269
Figure 9.2	Trends in worldwide energy consumption between 1965 to 2035.	274
Figure 9.3	Global energy-related CO ₂ emissions (gigatons, Gts) 1900–2020.	275
Figure 9.4	Total CO ₂ emissions for the period 1970–2017 and 2017 emissions, by country/region.	276
Figure 9.5	Global average temperature change during the past 2000 years.	277
Figure 9.6	The IUCN Red List of Threatened Species Taxonomy, Version 2020-1.	280
Figure 10.1	The Chicago School urban sociologists and their relationships.	303
Figure 10.2	Chicago-based sociologist Ernest W. Burgess' 1925 Concentric Zones model of urban form.	307
Figure 10.3	World urban and rural populations, 1950–2050.	312
Figure 10.4	Percentage of population 'urban' by world region 1950–2050.	313
Figure 10.5	The 'urban' population of the world by geographic region, 1950–2050.	314
Figure 10.6	The changing urban hierarchy, 1990–2030.	315
Figure 11.1	(a) The global flow of people, 1990–1995. (b) The global flow of people, 1995–2000. (c) The global flow of people, 2000–2005. (d) The global flow of people, 2005–2010. (e) The global flow of people, 2010–2015.	334
Figure 11.2	MIPEX2020 Migration Integration Policies: Status of policies (highest score is best performer)	348
Figure 12.1	Global annual deaths from natural disasters, by decade.	369
Figure 12.2	A typology of risks.	369
Figure 12.3	Top 10 risks by likelihood and impact over the next decade, as judged by multi-stakeholders and global shapers.	370
Figure 12.4	Factors in the calculation of the World Risk Index.	376
Figure C19.1	Total confirmed Covid-19 cases. The number of confirmed cases is lower than the number of total cases. The main reason for this is limited testing.	430
Figure C19.2	Total confirmed Covid-19 deaths. Limited testing and challenges in the attribution of the cause of death mean that the number of confirmed deaths may not be an accurate count of the true number of deaths from Covid-19.	430
Figure C19.3	Global economic recessions, 1870–2021.	446

List of Plates

Plate x.1	To infinity and beyond! “Broad, wholesome, charitable views of men and things cannot be acquired by vegetating in one little corner of the earth all of one’s lifetime.” - Mark Twain.	vi
Plate x.2	Rotterdam Centraal Station, Rotterdam, the Netherlands.	xxv
Plate x.3	The Great Plains of the United States: Breadbasket to the world.	xxxvii
Plate 1.1	Black marble: The United States by night.	5
Plate 1.2	De Wallen, the Red Light District in Amsterdam, the Netherlands.	7
Plate 1.3	Father and child walk through smog near the Shanghai Bund.	9
Plate 1.4	Thomas Cole’s <i>The Course of Empire: The Savage State</i> (1834).	11
Plate 1.5	Thomas Cole’s <i>The Course of Empire: The Arcadian or Pastoral State</i> (1834).	11
Plate 1.6	Thomas Cole’s <i>The Course of Empire: The Consummation of Empire</i> (1836).	12
Plate 1.7	Thomas Cole’s <i>The Course of Empire: Destruction</i> (1836).	12
Plate 1.8	Thomas Cole’s <i>The Course of Empire: Desolation</i> (1836).	13
Plate 1.9	Monument to the Discoveries, Lisbon, Portugal.	17
Plate 2.1	Cartographies of power: Mapping Britain’s Empire, 1886.	32
Plate 2.2a	Front cover of an 1886 publication by the Sociedade de Geografia de Lisboa (SGL) on Portuguese colonies in India.	40
Plate 2.2b	Plate taken from the same 1886 SGL publication as in 2.2a showing Portuguese civilization of tropical Goa.	41
Plate 2.2c	Map of the Island of Angediva, Goa, in the same 1886 SGL publication as in figure 2.2a.	42
Plate 2.3	Data everywhere and everywhere data? Human geographies in real time.	52
Plate 3.1	The origins of agriculture: The Fertile Crescent, Syria.	76
Plate 3.2	Palmyra, Homs Governorate, Syria.	78
Plate 3.3	Teotihuacan, Mexico (in 450 CE, perhaps the largest city in the world).	79
Plate 3.4	Spanish Conquistador like Hernán Cortés de Monroy y Pizarro Altamirano brought diseases like smallpox to Mexico, which played a significant role in the demise of the Aztec Empire.	83
Plate 4.1	Harvesting natural rubber from the <i>Havea Brasiliensis</i> tree in Vietnam.	96

Plate 4.2	Three influential twentieth-century economists: from left to right Friedrich August von Hayek, John Maynard Keynes and Milton Friedman.	98
Plate 4.3	Intel microchip.	101
Plate 4.4	A symbol of aggressive neoliberal capitalism: The Bull of Wall Street, New York, NY.	107
Plate 4.5	Post-Fordism at Ford! A post-Fordist assembly line in Ford's car production factory in Chennai, India.	111
Plate 4.6	Map of the Silicon Valley area of California: from San Jose to San Francisco.	117
Plate 5.1	The Israeli-Palestinian interface: peace wall or apartheid?	130
Plate 5.2	The Great Irish Famine (1847–1851) Memorial IFSC, Dublin, Ireland.	131
Plate 5.3	“The Rhodes Colossus” – cartoon by Edward Linley Sambourne, published in <i>Punch</i> after Cecil Rhodes announced plans for a telegraph line from Cape Town to Cairo in 1892.	144
Plate 5.4	President John F. Kennedy at a press conference on the Vietnam War, 23 March 1961.	151
Plate 6.1	A Palladian villa near Venice, Italy.	167
Plate 6.2	Hausmann's City of Light: The Arc de Triomphe at the center of the Place Charles de Gaulle, also known as the “Place de l'Etoile.”	169
Plate 6.3	Street view, Arc de Triomphe, from Avenue des Champs-Élysées, Paris.	170
Plate 6.4	The McMillan Plan of 1901: Laying out the National Mall in Washington, DC.	171
Plate 6.5	The National Mall (Lincoln Memorial Reflecting Pool and Washington Mall), Washington, DC.	172
Plate 6.6a	Exporting the imperialism of the straight line. India Gate War Memorial at the Rajpath and the “ceremonial axis” of central New Delhi, India (ex-colony of Britain).	179
Plate 6.6b	Exporting the imperialism of the straight line. Avenida 9 de Julio, Buenos Aires, Argentina (ex-colony of Spain).	179
Plate 6.6c	Exporting the imperialism of the straight line. The Australian Parliament, Canberra, Australia (ex-colony of Britain).	180
Plate 6.6d	Exporting the imperialism of the straight line. Brasilia Esplanada dos Ministérios, Brasilia, Brazil (ex-colony of Portugal).	180
Plate 6.6e	Exporting the imperialism of the straight line. Nir Sultan (Astana), Kazakhstan (ex-colony of USSR but designed by Japanese architect Kisho Kurokawa).	181
Plate 6.7	British Singapore: Raffles Place, 1966.	182
Plate 6.8	Asian experiments in worlding cities: Marina Bay, Singapore.	182
Plate 6.9	President Jimmy Carter tours the South Bronx, October 5, 1977.	184
Plate 6.10	Street dance, or hip-hop dance cipher on the street corner 1970s style, the Bronx, New York.	185
Plate 7.1	Aerial of Palm Tree Lined Street Beverly Hill Los Angeles.	193
Plate 7.2	Dharavi slum, central Mumbai.	193
Plate 8.1	Mao Tse-tung and Deng Xiaoping.	253
Plate 9.1	Greta Thunberg's skolstrejk för klimatet (school strike for climate) at the Swedish Parliament.	273

Plate 9.2	Solar farm, Región de Antofagasta, Chile.	278
Plate 9.3	The “lungs of the earth”: the Amazon River basin rainforest.	281
Plate 9.4	Waste pickers at the Ghazipur landfill site, Delhi, India.	283
Plate 9.5	Protesters from the climate change group Extinction Rebellion hold a “die-in” protest at Liverpool’s Anglican Cathedral underneath Gaia 2019.	288
Plate 10.1	Laurence Stephen (“LS”) Lowry, 1887–1976, <i>Industrial Landscape</i> (1958) in the North of England.	301
Plate 10.2	An aerial view of Chicago.	305
Plate 10.3	The <i>RMS Empress of Britain</i> , built at John Brown’s Shipyard, Glasgow, between 1928 and 1931 and owned by the Canadian Pacific Steamship Company. Alas, the <i>Empress</i> was sunk by a Nazi U-boat in 1940.	310
Plate 10.4	Glasgow’s Miles Better campaign: regeneration, civic boosterism, and place marketing in Glasgow in the early 1980s.	311
Plate 10.5	Tokyo, with a population of 37 million, is the largest city on earth.	315
Plate 10.6	Los Angeles’ sprawling urban carpet: view from Mulholland Drive, Santa Monica Mountains of southern California.	317
Plate 10.7	Dharavi Mumbai, India, considered to be one of Asia’s largest slums.	319
Plate 10.8	Dharavi Mumbai, India: everyday life.	319
Plate 11.1	Slaves cutting sugar cane on a plantation on the Island of Antigua, 1823.	335
Plate 11.2	Signs carried by marchers during the ‘March on Washington’ for equal rights August 28, 1963.	339
Plate 11.3	Sidewalk in Minneapolis where George Perry Floyd Jr. (October 14, 1973–May 25, 2020) was killed by a police officer during an arrest in May 2020.	340
Plate 11.4	Chinatown in San Francisco.	352
Plate 11.5	Mural of Aylan (Alan) Kurdi in Frankfurt am Main, Germany.	360
Plate 12.1	2019: The year of the forest fires. Big Fall Creek Road, Lowell, Oregon, United States.	368
Plate 12.2	Aftermath of the Haiti earthquake, 2010.	379
Plate 13.1	From the cover of Jules Verne’s book <i>Around the World in Eighty Days</i> (1958 Golden Picture Classic reprint).	401
Plate 13.2	Writing the Declaration of Independence – Thomas Jefferson (right), Benjamin Franklin (left), and John Adams (center) meet at Jefferson’s lodgings, 1776.	406
Plate 13.3	The magnificent 750-seat Ondaatje Theatre, Lowther Lodge, in Kensington, London, where the Annual Conference of the Royal Geographical Society with the Institute of British Geographers (RGS[IBG]) takes place.	409
Plate 13.4	The West at its best? Eleanor Roosevelt with the English language version of the Universal Declaration of Human Rights, December 1948.	417
Plate C19.1	Sign of the times? Leonardo da Vinci’s Mona Lisa wearing a protective mask.	427

List of Maps

Map x.1	Where on earth is the West today? The OECD world as a proxy for the West.	xxxiii
Map x.2	Global environments: The Koppen Geiger Climate Classification System world map.	xxxv
Map 2.1	Alexander von Humboldt's American expedition (1799–1804).	37
Map 3.1	Charles Darwin: Voyage of the HMS <i>Beagle</i> , 1831–1836.	62
Map 3.2	Early human migrations and the peopling of the planet.	66
Map 3.3	Peopling the Americas.	69
Map 3.4	Peter Bellwood's map of the first farmers.	75
Map 3.5	Glyn Daniels – the first six civilizations, 3000 BCE to 1200 BCE.	77
Map 4.1	Legacies of the Old International Division of Labor (OIDL): Stubborn geographies of the world economy.	94
Map 4.2	Intel's global division of labor.	102
Map 4.3	World cities: command-and-control centers in the global economy.	105
Map 4.4	Global artificial intelligence (AI) hubs (classification of active countries and identification of pioneering cities).	116
Map 5.1	Map of the European Union at 2021.	133
Map 5.2	Devolution in the United Kingdom at 2020: A mosaic of sub-national authorities.	134
Map 5.3	Halford J. Mackinder's Heartland thesis.	137
Map 5.4	Viceroyalties of Spain at the peak of the Spanish empire in the late eighteenth century.	140
Map 5.5a	Political geography of Africa before European colonization.	142
Map 5.5b	Africa, 1914: Political geography of Africa after the European scramble for the continent.	143
Map 5.6	The decolonization of Africa.	147
Map 5.7	The political geography of Indochina circa 1956.	150
Map 5.8	The political Geography of the former USSR.	152
Map 5.9	Samuel P. Huntington's clashing civilisations mapped.	153
Map 7.1	A Global North and a Global South? The Brandt Line (1980).	196
Map 7.2	United Nations HDI scores, 2018, by country.	200
Map 7.3	On the importance of Structural Funds in the EU project: GDP per capita expressed as a percentage of the EU average.	211

Map 7.4	Regenerating the rustbelt: Geographies of poverty (as measured by the official US poverty line) in the United States, 2018, by state and the 25 most populous cities.	212
Map 7.5	Overall distance of each country from meeting the SDG 2030 Goals.	219
Map 8.1	Distribution of World Population in 2100.	238
Map 8.2	The West Africa Ebola Outbreak, 2013–2016.	246
Map 9.1	Locating Liverpool City Region.	285
Map 10.1	The Pearl River Delta Megalopolis in southern China.	323
Map 11.1	The Atlantic Slave Trade, 1501–1867.	334
Map 11.2	“The Great Migration” north and west of African Americans, 1916–1970.	338
Map 11.3	International migration stocks by geographic area in 2019.	343
Map 11.4	The Syrian refugee crisis.	356
Map 11.5	Asylum claims in Europe, 2015 (Syrian asylum seekers are the largest group of claimants).	359
Map 12.1	Mapping the world at risk.	377
Map 12.2	The epicenter of the Haitian earthquake, 2010.	380
Map 12.3	The epicenter of the Japanese earthquake, 2011.	381
Map 12.4	The 1970 earthquake in Peru.	385
Map 12.5	Peru 2016–2017: the main areas affected during the coastal El Niño event.	387
Map C19.1	Total confirmed Covid-19 cases per million people, January 7th 2021.	433
Map C19.2	Total confirmed Covid-19 deaths per million people, January 7th 2021.	434

List of Tables

Table 7.1	International trends in poverty as measured by the international poverty line (IPL), 1981–2015/2020.	203
Table 7.2	The pillars of the Washington Consensus and the augmented post-Washington Consensus.	215
Table 9.1	Headline historic and projected growth rates, Liverpool City Region and the United Kingdom.	286
Table 10.1	Urbanization levels: percentage of population living in settlements >5000 inhabitants, by country (1800–1910).	298
Table 11.1	Principal phases in the Atlantic slave trade.	335
Table 11.2	Summary of international migration stocks, 2000 and 2020.	341
Table 11.3	Types of migration within and between the Global South and Global North.	345
Table 11.4	Migration Integration Outcomes by OECD country type.	349
Table 12.1	Impacts of El Niño events in Peru, 1982–1983, 1997–1998, and 2017.	386
Table C19.1	Explaining Covid-19 geographies: Conjectures, refutations and provocations.	443
Table C19.2	Building back better after the Covid-19 global pandemic.	448

Acknowledgments

Six years have elapsed since *Human Geography: An Essential Introduction* (first edition title: *Human Geography: A Concise Introduction*) was first published in 2015. I would like to thank the outstanding team at Wiley for their support and dedication to the project of developing this second edition. In particular, my gratitude goes to publisher Justin Vaughan for commissioning this new edition. Since 2015, the world and its geographies have changed in astonishing ways – the Covid-19 global pandemic has capstoned a period marked by breathless turbulence. There has been so much to update. This book has taken longer to write than the first edition (in truth, four years from start to finish; the first edition took me two years!) and has been extensively rewritten from the first word to the last. I have left no stone unturned. This has been a painstaking labor of love; for some reason a particularly epic undertaking. Justin's patience and support throughout have provided space and time to reflect and write. I would also like to thank Merryl Le Roux and Clelia Petracca (Senior Editorial Assistants) and Charlie Hamlyn (Managing Editor) at Wiley for their stellar work in helping the manuscript into production. Special commendation must go to Anandan Bommen (Content Refinement Specialist) for going the extra mile in support of editorial refinement.

I have taught human geography modules for over a quarter of a century now, first at the University of Strathclyde in Glasgow, Scotland; Maynooth University in County Kildare, Ireland; and most recently at the University of Liverpool. This book could not have been written without these prior teaching experiences. I would like to acknowledge the contribution of students who have taken these modules; in digesting, engaging in, challenging, and reframing lecture and tutorial content, they have helped me to sharpen my understanding of topics and clarify how best to communicate ideas. I would also like to thank inspirational colleagues at Strathclyde University, Maynooth University, and the University of Liverpool from whom I have learned much about this most unusual of trades. My ongoing collaborations and friendships with Audrey Kobayashi, Elaine Ho, James Sidaway, Guy Baeten, Chris Philo, Michael Parkinson, Georgina Endfield, Brendan Gleeson and Rob Kitchin continue to nourish. I would also like to acknowledge the guidance offered by Allan Findlay, Elspeth Graham, Ronan Paddison, Mary Gilmartin, John Hasse, Gerry Kearns, Neil Brenner, Kevin Cox, Peter Shirlow, Peter North, and Andy Davies on various subject matters pertaining to specific chapters in the book.

I completed this book as the horrors of the global Covid-19 pandemic unfolded and whilst in lockdown in a small rural village in County Kildare, Ireland. Like others, I spent the year battling to stay positive - and in awe of front line workers in the foundational economy and in particular health care workers whose generosity, expertise and courage cannot be overstated. Writing about far-off worlds enabled me to escape temporarily the brutal realities of heightened precarity, illness and death. It also helped me to escape entrapment. Covid-19 has limited horizons. I have been able to write about many of the places in this book as I have visited them. Of course safety must come first always and until zero-carbon transportation becomes mainstreamed we must always be conscious of our travel-related ecological footprint. But hopefully in time student geographers will be able to explore the world once more, for this is the only way one truly gets to know it. In the interim, I hope this book will serve as a worthy substitute (for first hand exploration) and therapeutic companion for all restless and nomadic souls who have struggled to cope with sedentary isolation.

My mother and family in Scotland and Australia undoubtedly helped to sustain the endeavor. I thank my wife Deborah and sons Patrick and Joseph for their forbearance. As ever they exist as the prime casualties of my career choices, publication schedule, and distaste for military timing. I was only able to complete this book because of the love and support they furnished me with as we bunkered down.

Mark Boyle
Liverpool and Kildare, January 2021



Plate x.2 Rotterdam Centraal Station, Rotterdam, the Netherlands. Photo by Jurriaan Snickers on Unsplash.

List of Abbreviations

AAG	Association of American Geographers
AR6	IPCC sixth assessment report
ASEAN	Association of Southeast Asian Nations
BCE	Before the Common Era
BP	Before the Present Day
Brici	Brazil, Russia, India, China, and Indonesia
CBD	Convention on Biological Diversity
CBR	crude birth rate
CDC	Centers for Disease Control and Prevention
CDR	crude death rate
CE	Common Era
CMP	Capabilities Measurement Project
COP	Conference of Parties
DALY	Disability-Adjusted Life Year
DDT	dichlorodiphenyltrichloroethane
DNA	deoxyribonucleic acid
EC	European Commission
ECB	European Central Bank
EM-DAT	Emergency Events Database
EU	European Union
FAO	UN Food and Agricultural Organization
FDI	foreign direct investment
FEMA	Federal Emergency Management Agency
GCC	Global Commodity Chain
GDP	Gross Domestic Product
GGs	Guns, Germs and Steel
GIS	Geographical Information Systems
GIScience	Geographical Information Science
GNI	Gross National Income (formerly Gross National Product)
GPN	Global Production Network
GVA	Gross Value Added
GVC	Global Value Chain

HDI	Human Development Index
HFA	Hyogo Framework for Action
HFCs	hydrofluorocarbons
HIHD	Historical Index of Human Development
ICD	International Classification of Disease
ICT	information and communications technology
IDA	International Development Aid
IDP	internally displaced person
IGU	International Geographical Union
IHDI	Inequality-adjusted Human Development Index
IHME	Institute for Health Metrics and Evaluation
IMF	International Monetary Fund
In3	instrumentation, interconnection, and intelligence
IO	international organization
IOM	International Organization for Migration
IPCC	Intergovernmental Panel on Climate Change
IPL	International Poverty Line
IR4	Fourth Industrial Revolution
IUCN	International Union for Conservation of Nature
MDGs	Millennium Development Goals
Mercosur	Mercado Común del Cono Sur (Southern Cone Common Market)
MNC	multinational corporation
MPI	Multidimensional Poverty Index
MYBP	Million Years Before the Present Day
NAFTA	North American Free Trade Agreement
NATO	North Atlantic Treaty Organization
NGO	nongovernmental organization
NIDL	New International Division of Labor
OECD	Organisation for Economic Co-operation and Development
OIDL	Old International Division of Labor
OPEC	Organization of Arab Petroleum Exporting Countries
PD	post-development
PPP	purchasing power parity
RBA	rights-based approach
RGS(IBG)	Royal Geographical Society (with the Institute of British Geographers)
RIMA-II	Resilience Index Measurement and Analysis
SAP	Structural Adjustment Programme
SDGs	Sustainable Development Goals
SHDI	Subnational Human Development Index
SOE	state-owned enterprise
TFR	total fertility rate
TNC	transnational corporation
UBI	Universal Basic Income
UBS	Universal Basic Services
UDHR	Universal Declaration of Human Rights
UK	United Kingdom
UN	United Nations
UNDP	United Nations Development Programme
UNFCCC	United Nations Framework Convention on Climate Change

UNHCR	United Nations High Commissioner for Refugees
UNISDR	United Nations International Strategy for Disaster Risk Reduction
UNPD	United Nations Population Division
UNU	United Nations University
US	United States
USSR	Union of Soviet Socialist Republics
WB	World Bank
WEF	World Economic Forum
WHO	World Health Organization
WID	World Inequality Database
WTO	World Trade Organization
WW1	World War I
WW2	World War II
YLDs	years of life lost to disability
YLLs	years of life lost