

Cambridge Elements

Elements in Earth System Governance

edited by

Frank Biermann

Utrecht University

Aarti Gupta

Wageningen University

Michael Mason

London School of Economics and Political Science (LSE)

ADAPTIVE GOVERNANCE TO MANAGE HUMAN MOBILITY AND NATURAL RESOURCE STRESS

Saleem H. Ali

University of Delaware

Martin Clifford

University of Delaware

Dominic Kniveton

University of Sussex

Caroline Zickgraf

University of Liège

Sonja Ayeb-Karlsson

University College London and United Nations

University Institute for Environment

and Human Security



CAMBRIDGE
UNIVERSITY PRESS

Cambridge University Press & Assessment

978-1-009-35772-2 — Adaptive Governance to Manage Human Mobility and Natural Resource Stress

Saleem H. Ali , Martin Clifford , Dominic Kniveton , Caroline Zickgraf , Sonja Ayeb-Karlsson

Frontmatter

[More Information](#)



Shaftesbury Road, Cambridge CB2 8EA, United Kingdom

One Liberty Plaza, 20th Floor, New York, NY 10006, USA

477 Williamstown Road, Port Melbourne, VIC 3207, Australia

314–321, 3rd Floor, Plot 3, Splendor Forum, Jasola District Centre,
New Delhi – 110025, India

103 Penang Road, #05–06/07, Visioncrest Commercial, Singapore 238467

Cambridge University Press is part of Cambridge University Press & Assessment,
a department of the University of Cambridge.

We share the University's mission to contribute to society through the pursuit of
education, learning and research at the highest international levels of excellence.

www.cambridge.org

Information on this title: www.cambridge.org/9781009357722

DOI: 10.1017/9781009357708

© Saleem H. Ali, Martin Clifford, Dominic Kniveton, Caroline Zickgraf, and Sonja
Ayeb-Karlsson 2023

This publication is in copyright. Subject to statutory exception and to the provisions
of relevant collective licensing agreements, no reproduction of any part may take
place without the written permission of Cambridge University Press & Assessment.

First published 2023

A catalogue record for this publication is available from the British Library.

ISBN 978-1-009-35772-2 Paperback

ISSN 2631-7818 (online)

ISSN 2631-780X (print)

Cambridge University Press & Assessment has no responsibility for the persistence
or accuracy of URLs for external or third-party internet websites referred to in this
publication and does not guarantee that any content on such websites is, or will
remain, accurate or appropriate.

Adaptive Governance to Manage Human Mobility and Natural Resource Stress

Elements in Earth System Governance

DOI: 10.1017/9781009357708

First published online: January 2023

Saleem H. Ali

University of Delaware

Martin Clifford

University of Delaware

Dominic Kniveton

University of Sussex

Caroline Zickgraf

University of Liège

Sonja Ayeb-Karlsson

*University College London and United Nations University Institute for
Environment and Human Security*

Author for correspondence: Saleem H. Ali, Saleem@udel.edu

Abstract: Connections between resources and migration operate as a complex adaptive system rather than being premised in linear, causal mechanisms. The systems thinking advocated within this Element increases the inclusion of socio-psychological, financial, demographic, environmental, and political dimensions that mediate resource-(im) mobility pathways. The Earth Systems Governance (ESG) paradigm provides a way to manage global migration flows more effectively, allowing for consideration of networks and interdependencies in addition to its inherent adaptiveness. Resource rushes, hydropower displacement, and climate-induced retreat from coastal areas are all examples of circumstances linking resources and human mobility. Movement can also ameliorate environmental conditions, and hence close monitoring of impacts and policies that harness benefits of migration is advocated. Green remittance bonds, and land tenure policies favouring better arable resource usage are key ingredients of a more systems-oriented approach to managing mobility. The Global Compact for Migration offers an opportunity to operationalize such adaptive governance approaches in the Anthropocene.

Keywords: migration, global environmental change, resource security, environmental peacebuilding, human mobility

© Saleem H. Ali, Martin Clifford, Dominic Kniveton, Caroline Zickgraf, and Sonja Ayeb-Karlsson 2023

ISBNs: 9781009357722 (PB), 9781009357708 (OC)

ISSNs: 2631-7818 (online), 2631-780X (print)

Contents

Introduction: The United Nations, Natural Resources, and Human Mobility	1
1 The Resource–Mobility–Governance Nexus	4
2 Preventative Measures against Forced Displacement and Their Governance	15
3 Governing Mobility amidst Ecological Disasters and Disruptive ‘Attractors’	28
4 Adaptive Governance on Migration due to Climate Change or Resource Needs	38
5 Key Messages and Interface with United Nations International Resource Panel’s Assessment	55
Appendix: Examples of Policy Responses to Migration Emanating from Consultations Conducted during Finalization of IRP Report <i>Resource Implications of Human Mobility and Migration</i>	67
References	71