

Edited by

Dave Huitema • Sander Meijerink

THE POLITICS OF RIVER BASIN ORGANISATIONS

Coalitions, Institutional Design Choices and Consequences



The Politics of River Basin Organisations

Coalitions, Institutional Design Choices and Consequences

Edited by

Dave Huitema

Professor of Environmental Policy, Institute for Environmental Studies (IVM), VU University Amsterdam and the Faculty of Management, Science and Technology, Open University of the Netherlands

Sander Meijerink

Associate Professor of Water Governance, Institute for Management Research (IMR), Radboud University Nijmegen, the Netherlands

Edward Elgar

Cheltenham, UK • Northampton, MA, USA

© Dave Huitema and Sander Meijerink 2014

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 or photocopying, recording, or otherwise without the prior permission of the publisher.

Published by Edward Elgar Publishing Limited The Lypiatts 15 Lansdown Road Cheltenham Glos GL50 2JA UK

Edward Elgar Publishing, Inc. William Pratt House 9 Dewey Court Northampton Massachusetts 01060 USA

A catalogue record for this book is available from the British Library

Library of Congress Control Number: 2014932595

This book is available electronically in the ElgarOnline.com Economics Subject Collection, E-ISBN 978 1 78254 922 2



ISBN 978 1 78254 921 5

Typeset by Servis Filmsetting Ltd, Stockport, Cheshire Printed and bound in Great Britain by T.J. International Ltd, Padstow

The Politics of River Basin Organisations

For four especially important members of a new generation, Laia and Max, Carlijn and Jasper

此为试读,需要完整PDF请访问: www.ertongbook.com

Contributors

David Benson is a lecturer in politics at the University of Exeter, UK. Dr Benson's current research, based at the university's Environment and Sustainability Institute (ESI) in Penryn, encompasses a range of issue areas at the interface between political and environmental sciences, most notably European Union (EU) environmental and energy policy, comparative environmental politics and governance, federalism and public participation in environmental decision making.

Christoph Bernhardt is a senior researcher and head of the Department for Historical Research at the Leibniz-Institute for Regional Development and Structural Planning, Germany. He teaches at the Technical Universities of Berlin and Darmstadt (Germany). His main field of research is the European urban and environmental history of the nineteenth and twentieth centuries.

António Guerreiro de Brito is an environmental engineer and Associate Professor with Habilitation at the University of Lisbon, School of Agronomy, Portugal, and former director of a Portuguese river basin organisation. His research interests include water efficiency and resources recovery from wastewater, eutrophication and lake restoration, and water resources planning and governance.

Dan Calvert is a PhD candidate at Oregon State University and lives in Portland, Oregon, USA. His research interests include learning in collaborative watershed partnerships and coupled social—ecological systems thinking.

Daniel Connell teaches courses dealing with transboundary rivers in the Crawford School at the Australian National University. His research focuses on issues related to the institutional design and governance arrangements applying to rivers in federal or multilayered political systems such as Australia, South Africa, the United States, Mexico, the European Union (Spain), India, China and Brazil.

Hadrian Cook is a lecturer and environmental consultant. He is presently at Kingston University in London, UK, but he has also worked in conservation (for the Harnham Water Meadows Trust in Salisbury,

UK) and was a consultant to the UK Research Councils' Rural Economy and Land Use Programme. Originally a hydrologist and soil scientist, Hadrian's academic interests include environmental history and policy and floodplain management. He lives in Salisbury and is a Fellow of the Chartered Institution of Water and Environmental Management.

Ines Dombrowsky heads the Department of Environmental Policy and Natural Resources Management at the German Development Institute, Deutsches Institut für Entwicklungspolitik (DIE), in Bonn, Germany. Her research focuses on various aspects of water governance including transboundary water management, the institutionalisation of integrated water resources management (IWRM) and the governance of the water–energy–food nexus.

Nikki Funke is a senior researcher in the Water Governance Group at the Council for Scientific and Industrial Research (CSIR) in South Africa. Her research interests include understanding the roles of scientists in environmental and water decision-making contexts, as well as the dynamics that hamper or contribute to effective water governance.

Santita Ganjanapan teaches at the Department of Geography and the Regional Centre for Social Sciences and Sustainable Development, Chiang Mai University, Thailand. Her research interests include natural resource management, aquaculture and climate adaptation, gender and space, and peri-urban agriculture.

Joyeeta Gupta is Professor of Environment and Development in the Global South in the programme on Governance and Inclusive Development (GID) of the Amsterdam Institute for Social Science Research, University of Amsterdam and Professor at UNESCO-IHE Institute for Water Education, Delft, the Netherlands.

Nina Hagemann is a scientist at the Department of Economics at the Helmholtz Centre for Environmental Research in Leipzig, Germany. Her research interests include water (infrastructure) governance, transition countries and institutional economics.

Lena Horlemann is a senior researcher at the inter 3 Institute for Resource Management, Berlin, Germany. Her research interests include water governance, organisational development and institutional design in water management.

Annabelle Houdret is a senior researcher at the Department of Environmental Policy and Natural Resources Management at the German

Development Institute, Deutsches Institut für Entwicklungspolitik (DIE) in Bonn, Germany. Her research focuses on water governance, water conflicts and integrated water resources management.

Frank Hüesker is a postdoctoral researcher. Research for contributing to this book was conducted at the Leibniz Institute for Regional Development and Structural Planning in Erkner, Germany. His main field of research is the sustainable governance of water resources, water infrastructures and renewable energies in Europe.

Dave Huitema is a Professor of Environmental Policy who works at the Institute for Environmental Studies (IVM) of the VU University Amsterdam, the Netherlands and the Faculty of Management, Science and Technology at the Open University of the Netherlands. He is interested in the notion of adaptive governance (involving policy learning, change, agency and innovation) and focuses mainly on water and climate change issues.

Frank Jaspers is Associate Professor at UNESCO-IHE, the United Nations Educational, Scientific and Cultural Organization's International Institute for Infrastructural, Hydraulic and Environmental Engineering, in Delft, the Netherlands. His main research interest is design and performance of river basin organisations. He has more than 20 years of experience in the functioning of river basin organisations in Asia, Africa and Latin America.

Alex Inman is a freelance researcher and consultant specialising in socio-economic research within the context of natural resource management problems; particularly relating to land and water conservation. He has worked within the environmental non-governmental organisation (NGO) sector for many years with research interests including the role of civil society organisations within integrated catchment planning.

Denise Lach, PhD, is a Professor of Sociology and Director of the School of Public Policy at Oregon State University, USA. Her research interests have long included the intersection of water institutions and policy as well as the use of scientific information in decision making.

Louis Lebel is Director of the Unit for Social and Environmental Research at Chiang Mai University, Thailand. His research interests include environmental governance, production—consumption systems and adaptation to global environmental changes.

Marco Leidel is a scientist at the Department of Hydrosciences at the University of Technology Dresden, Germany. His research interests

include integrated water resources management, capacity development, transboundary water management and water governance.

Rob de Loë is Professor and University Research Chair in Water Policy and Governance at the University of Waterloo, Canada, and director of the multi-university Water Policy and Governance Group (www.wpgg. ca). His research interests relate to water management and governance for source water protection, water allocation, transboundary water resources and climate change adaptation.

Sander Meijerink is an Associate Professor of Water Governance at the Institute for Management Research (IMR) of the Radboud University Nijmegen, the Netherlands. His research interests include institutional analysis, policy continuity and change, leadership and cross-border cooperation. Most of his research focuses on water and spatial governance and climate adaptation.

Richard Meissner is a senior researcher at the Council for Scientific and Industrial Research (CSIR) in Pretoria, South Africa. His research interests include water governance, the linkage between theory and policy, transboundary river basin management and politics, international relations in general, and the role and involvement of interest groups and individuals in water politics and governance.

Michelle Morris is a PhD candidate in the Department of Environment and Resource Studies at the University of Waterloo, Canada. Her research interests include transboundary water governance and collaborative environmental governance.

Andrew Ross is a Visiting Fellow at the Australian National University, and is currently contracted to the Groundwater Section of UNESCO's Division of Water Sciences in Paris. Andre's major current work is on transboundary aquifer management, groundwater governance and conjunctive water use. He is also interested in policy integration and implementation, and the research—policy interface.

Andreas Thiel is Temporary Professor for Environmental Governance at Humboldt-Universität zu Berlin, Germany. His research interests include the role of institutions in social–ecological systems and their transformation, water and land use governance, and climate adaptation.

Vincent Thomas has been working as a research officer for the Afghanistan Research and Evaluation Unit in Kabul, Afghanistan since 2011. His areas of interest are river basin management, water conflicts and transboundary

water management. From 2005 to 2010 he worked with the Aga Khan Foundation, leading a European Union (EU)-funded social water management project in Northeast Afghanistan.

Jeroen Warner teaches, trains and publishes on domestic and transboundary water conflict, participatory resource management, and governance issues. Jeroen is Associate Professor of Disaster Studies at Wageningen University, the Netherlands. His main research interests in the disaster studies domain are social resilience and participation, the politics of (flood) disaster risk reduction, and the role of disasters in international relations. He was Visiting Professor at the University of São Paulo, Brazil in Autumn 2013.

Acknowledgements

We would like to thank all of the participating authors for their contributions to this volume, and the many interesting discussions which we had on various occasions. We are grateful to the Royal Netherlands Academy of Arts and Sciences (KNAW) for the conference subsidy which enabled us to organise a meeting in Amsterdam where we discussed draft chapters, and jointly searched for themes running through all contributions. We are much indebted to Simon Verduijn who drafted a report of this meeting, to Ron Wundering who prepared a nice series of maps for this volume, and to Kathrin Ludwig who assisted us with editing the various chapters of this book. Finally, we would like to thank Alex Pettifer, Caroline Cornish, and Cathrin Vaughan at Edward Elgar Publishing, for the pleasant contacts during the preparation of this book.

Dave Huitema Sander Meijerink

Contents

	t of contributors cnowledgements	vii xii
1	The politics of river basin organisations: institutional design choices, coalitions and consequences Dave Huitema and Sander Meijerink	1
2	Global water governance and river basin organisations Frank Jaspers and Joyeeta Gupta	38
3	Cooperative transboundary water governance in Canada's Mackenzie River Basin: status and prospects Rob de Loë and Michelle Morris	67
4	Designing an agency to manage a wicked water problem: the Oregon Watershed Enhancement Board Denise Lach and Dan Calvert	96
5	Partnering for success in England: the Westcountry Rivers Trust Hadrian Cook, David Benson and Alex Inman	119
6	State-founded water boards in industrialised Western Germany Frank Hüesker and Christoph Bernhardt	140
7	Emergence, performance and transformation of Portuguese water institutions in the age of river basin organisations Andreas Thiel and António Guerreiro de Brito	162
8	The politics of establishing catchment management agencies in South Africa: the case of the Breede–Overberg Catchment Management Agency Richard Meissner and Nikki Funke	184
9	Introducing river basin management in a transitional context: a case study about Ukraine Nina Hagemann and Marco Leidel	210

10	River basin organisations in Northern Afghanistan: the holy trinity of contemporary water management in practice Jeroen Warner and Vincent Thomas	234
11	Evolving river basin management in Mongolia? Ines Dombrowsky, Annabelle Houdret and Lena Horlemann	265
12	Interplay between new basin organisations, pre-existing institutions and emerging environmental networks in the Mae Kuang watershed, northern Thailand Santita Ganjanapan and Louis Lebel	298
13	The evolution of river basin management in the Murray-Darling Basin Andrew Ross and Daniel Connell	326
14	Institutional design, politics and performance of river basin organisations Sander Meijerink and Dave Huitema	356
Ind	Index	

1. The politics of river basin organisations: institutional design choices, coalitions and consequences

Dave Huitema and Sander Meijerink

1.1 SHIFTS IN WATER GOVERNANCE

Water and human development are inextricably linked. Human settlement tends to concentrate along rivers and coasts. This is because water offers fertile soils, opportunities for irrigation, and possibilities for transport and trade. To use the possibilities of the water as much as possible and to reduce the risks associated with human settlement close to water, social organisation and systems of governance are required. Arguably because water is such a crucial element in societal development, many ancient societies had to make decisions about their water management organisations early. The degree to which organisations founded for water management influence later traditions of governing is under debate. Some have claimed that the organisation of water management, which can be centralised and focused on large-scale infrastructure or, alternatively, decentralised and focused on local management, determined the governance system of entire empires (Wittfogel 1957). But others suggest that it is rather the other way around, in the sense that societies with accomplished hierarchical governance structures were better able to develop centralised infrastructures for managing water and thus to control their water environment.

Whatever the protracted history of water management and its importance for broader historical patterns of governance that have emerged since ancient times, the advent of the nation state (depending on the country in question, this took place in most cases in the eighteenth, nineteenth or twentieth centuries) was a significant development, and in most cases a serious break from the traditions of the past. The nation state, built upon concerted efforts to change social cultural preferences ('nation building') through the crafting of new bonds of affiliation and a retelling of history, implied a 'nationalisation' of responsibilities that were previously at the local level, and has, since this took place, shaped the division

of responsibilities at what we now appropriately call the 'international level'. Water management was fully implied in the process of nation building. In many countries, new water works served to make fragmented countries more integrated by physically connecting previously separate parts. Various such projects became focal points for nation building by showing highly developed engineering skills. New organisations for water management were founded that operated at the national scale. In the process of nationalisation, previously established communal and private elements of the governance system were overhauled. In many cases this effectively meant an expropriation of rights from private owners to state bureaucracies, which often started using their decision power to further certain economic interests, be this newly emerging industries which were allowed to use the pollution assimilation capacity of water for the release of their waste materials, or agriculture, which today consumes enormous amounts of freshwater for irrigation, often without being fully charged for the costs

The process of nation state building had two elements that are worth mentioning here. The first is that when it took place government institutions were often designed on the basis of a 'classical modernist' design (Hajer 2003), embedded in respective constitutions. This implied that government tasks and responsibilities would be divided over respective layers of government, usually three or four. Most of these government layers were assigned a wide set of responsibilities (general-purpose governments) and because the boundaries were relatively clear cut, a certain level of jurisdictional integrity was created. Nation states differ in many ways; they can be federal or unitary states, the level of centralisation can differ, the formal leadership can be presidential or monarchical, the role of the judiciary can be expansive or limited, and so on. In many cases, however, water management tasks were allocated to general-purpose government layers, and thus became part of the 'normal' government apparatus. Special-purpose organisations such as river basin organisations (RBOs) did not fit easily in this scheme, although in some cases, such as the Netherlands, the water boards that had existed long before the modern nation state were given a constitutional status equal to that of municipalities. A second element worth mentioning here is that in almost any new nation state, issues of control loomed large. Democratic control, especially in the form of representative democracy, has almost universal appeal and has thus become the norm. There are, however, multiple models of democracy (Held 2006), and some of these models actually convey very little direct citizen control over government institutions. Regardless of the model of democracy that is applied by the elite in the new nation states, the quest for democratic control has almost always been a struggle, as has achieving the adoption of important democratic principles such as transparency, accountability, and the replacement of leaders by the polity.

In the period from the Second World War until roughly the start of the 1980s, the role of governments in many societies across the world expanded, often for reasons associated with development of a welfare state, but usually also because this was an era of confidence in the power of centralised, planned and rational problem solving. And the concept of the nation state, to the chagrin of some who see the nation state's sovereignty as a hindrance for addressing many of the world's problems, is still very much a key aspect in developing responses to water problems. However, the power of most nation states is eroding and power is diffusing to other actors. This change, often described as a shift from government to governance, started taking place around the 1980s and is depicted in Figure 1.1.

The reasons behind these shifts in governance are often debated. There is a strong ideological element, in the sense that neoliberal ideas, which emphasise market initiative and government failure, gained currency in the 1980s. But in the same decade another influential wave of thought emerged: on community governance and self-governance. Both waves of thought have academic roots in economics and the political sciences, and affected each of the shifts signified here in one way or another. Authors

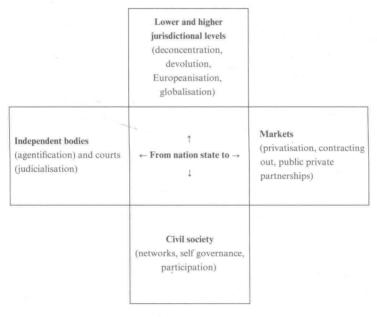


Figure 1.1 Shifts in governance since the 1980s

who write about governance (e.g. Pierre and Peters 2000) also suggest a less prosaic explanation for these shifts: mainly that the nation state had grown too large to sustain itself much longer. Especially in some European countries, public spending amounted to more than half of gross domestic product, and the functioning of the ensuing 'big government', often founded on central control and planning, was considered suspect at best in many areas. 'Red tape', regulations and excessive bureaucracy became rallying cries in the battle to 'hollow out the state' (Rhodes 1996).

The increasingly global discourse on water governance (see e.g. Gupta 2009), bears several traces of these shifts in governance. The central guiding concept of integrated water resources management (IWRM), for instance, suggests greater private sector involvement in water management, and the establishment of pricing mechanisms; it assigns a large role to independent experts by suggesting the greater use of decisionmaking tools such as cost-benefit analysis, suggests more international collaboration whilst at the same time indicating the possibility for local control, and shows sensitivity to the need for greater public participation and stakeholder involvement. IWRM is often also seen as a corrective to the errors of the 'hydrological mission' (see also Jaspers and Gupta, Chapter 2 in this volume), the spawn of large-scale engineering projects that went hand in hand with nation building and the subsequent growth of nation states and big government. The 'integrated' aspect is often interpreted to denote more attention to the ecological and societal impacts of water management activities, including the typical large-scale projects. It also denotes a geographical emphasis, in the sense that water managers should start paying more attention to the interlinkages between upstream and downstream interventions by working on the river basin scale and founding RBOs.

1.2 THE GUIDING QUESTIONS FOR THIS BOOK

IWRM is clearly a multifaceted concept and implementing each of the aspects may require an extensive job of 'translation' (Mukhtarov 2009) and weighting. Obviously not all aspects are equally important to water managers. It has been suggested that the 'river basin approach' (also called the 'water systems approach', see, for example, Teclaff 1967; Lundqvist et al. 1985; Mitchell 1990; Mostert 2000) is the key innovation that the water governance community is after and preferably in a form that takes away power from 'normal' governments. Schlager and Blomquist (2008: 1) observe: