

Contents

Integrated Floodplain Management, Environmental Change, and Geomorphology: Problems and Prospects	1
Paul F. Hudson and Hans Middelkoop	
Sand and Gravel on the Move: Human Impacts on Bed-Material Load Along the Lower Rhine River.....	9
R. M. Frings	
Channel Responses to Global Change and Local Impacts: Perspectives and Tools for Floodplain Management, Ebro River and Tributaries, NE Spain.....	27
Alfredo Ollero, Askoa Ibisate, David Granado and Rafael Real de Asua	
Impact Scales of Fluvial Response to Management along the Sacramento River, California, USA: Transience Versus Persistence	53
Michael Bliss Singer	
Flooding, Structural Flood Control Measures, and Recent Geomorphic Research along the Red River, Manitoba, Canada.....	87
Gregory R. Brooks and Scott St. George	
Promoting Atmospheric-River and Snowmelt-Fueled Biogeomorphic Processes by Restoring River-Floodplain Connectivity in California's Central Valley.....	119
Joan L. Florsheim and Michael D. Dettinger	
Geomorphic Perspectives of Managing, Modifying, and Restoring a River with Prolonged Flooding: Kissimmee River, Florida, USA	143
Joann Mossa	

Managing the Mississippi River Floodplain: Achieving Ecological Benefits Requires More Than Hydrological Connection to the River	171
Harold L. Schramm, William B. Richardson and Brent C. Knights	
The Role of Floodplain Restoration in Mitigating Flood Risk, Lower Missouri River, USA	203
Robert B. Jacobson, Garth Lindner and Chance Bitner	
Post-dam Channel and Floodplain Adjustment along the Lower Volga River, Russia	245
Hans Middelkoop, A.M. Alabyan, D.B. Babich and V.V. Ivanov	
Embanking the Lower Danube: From Natural to Engineered Floodplains and Back	265
Ştefan Constantinescu, Diana Achim, Ioan Rus and Liviu Giosan	
Historical Development and Integrated Management of the Rhône River Floodplain, from the Alps to the Camargue Delta, France	289
Jean-Paul Bravard and Pauline Gaydou	
The Role of Floodplain Geomorphology in Policy and Management Decisions along the Lower Mississippi River in Louisiana ...	321
Richard H. Kesel and Molly McGraw	
The Palimpsest of River-Floodplain Management and the Role of Geomorphology.....	337
Paul F. Hudson and Hans Middelkoop	
Index.....	351

Geomorphic Approaches to Integrated Floodplain
Management of Lowland Fluvial Systems in North
America and Europe

Hudson, P.; Middelkoop, H. (Eds.)

2015, IX, 356 p. 132 illus., 78 illus. in color., Hardcover

ISBN: 978-1-4939-2379-3