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ISBN	3-030-28906-0
Descrizione fisica	1 online resource (xlii, 252 pages) : illustrations
Disciplina	551.517
Soggetti	Atmospheric circulation Atmospheric waves Hydrology Dynamic meteorology Water vapor, Atmospheric Geophysics and Environmental Physics Atmospheric Sciences Hydrology/Water Resources Climate Change/Climate Change Impacts Climate Change Meteorology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter1: Introduction -- Chapter2: Structure, Process and Mechanism -- Chapter3: Observing and Detecting ARs -- Chapter4: Global and Regional Perspectives -- Chapter5: Effects of Atmospheric Rivers -- Chapter6: AR Modeling: Forecasts, Climate Simulations, and Climate Projections -- Chapter7: Applications -- Chapter8: The Future of AR Research and Applications.
Sommario/riassunto	This book is the standard reference based on roughly 20 years of research on atmospheric rivers, emphasizing progress made on key research and applications questions and remaining knowledge gaps. The book presents the history of atmospheric-rivers research, the current state of scientific knowledge, tools, and policy-relevant (science-informed) problems that lend themselves to real-world

application of the research—and how the topic fits into larger national and global contexts. This book is written by a global team of authors who have conducted and published the majority of critical research on atmospheric rivers over the past years. The book is intended to benefit practitioners in the fields of meteorology, hydrology and related disciplines, including students as well as senior researchers.
