

Contents

1	The Monsoons and Climate Change	1
	Leila Maria Véspoli de Carvalho	
2	Global Monsoon in a Changing Climate	7
	Pang-Chi Hsu	
3	South Asian Summer Monsoon Variability in a Changing Climate	25
	H. Annamalai and K.R. Sperber	
4	Projecting Changes of the Asian Summer Monsoon Through the Twenty-First Century	47
	Hirokazu Endo and Akio Kitoh	
5	The Australian Summer Monsoon in Current and Future Climate	67
	Huqiang Zhang and Aurel Moise	
6	The South American Monsoon System (SAMS)	121
	Leila Maria Véspoli de Carvalho and Iracema F.A. Cavalcanti	
7	Recent and Possible Future Variations in the North American Monsoon	149
	Andrew Hoell, Chris Funk, Mathew Barlow and Shraddhanand Shukla	
8	The East African Monsoon System: Seasonal Climatologies and Recent Variations	163
	Chris Funk, Andrew Hoell, Shraddhanand Shukla, Greg Husak and Joel Michaelsen	
9	The Connection Between the North and South American Monsoons	187
	Rong Fu, Paola A. Arias and Hui Wang	

10 The Madden–Julian Oscillation and the Monsoons 207
Charles Jones

11 Glaciers and Monsoon Systems 225
Bodo Bookhagen

Index 251

The Monsoons and Climate Change

Observations and Modeling

de Carvalho, L.M.V.; Jones, C. (Eds.)

2016, X, 253 p. 105 illus., 11 illus. in color., Hardcover

ISBN: 978-3-319-21649-2