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| Nota di contenuto       | Front matter -- List of Contributors -- Abbreviations -- Preface -- Contents -- Part I: State and Changes in Dryland East Asia -- Chapter 1. State and Change of Dryland East Asia (DEA) / Jiquan, Chen / Ranjeet, John / Guanghua, Qiao / Ochirbat, Batkhishig / Wenping, Yuan / Yaoqi, Zhang / Changliang, Shao / Zutao, Ouyang / Linghao, Li / Ke, Guo / Ge, Sun -- Chapter 2. Dryland East Asia in Hemispheric Context / Henebry, Geoffrey M. / Beurs, Kirsten M. de / Wright, Christopher K. / Ranjeet, John / Lioubimtseva, Elena -- Chapter 3. NEESPI and MAIRS Programs in Dryland East Asia / Qi, Jiaguo / Groisman, Pavel / Ai, Likun -- Chapter 4. Land Use and Land Cover Change in Dryland East Asia / Becker, Richard H. / Zmijewski, Kirk A. -- Chapter 5. Urban Expansion and Environment Change in Dryland East Asia / Fan, Peilei / Qi, Jiaguo / Chen, Xi / Messina, Joseph / Huang, Huiqing / Li, Xue -- Chapter 6. Ecosystem Carbon Cycle under Changing Atmosphere, Climate and Land Use in Dryland East Asia / Xia, Jianyang / Niu, Shuli / Wang, Xuhui / Piao, Shilong / Yan, Liming / Wan, Shiqiang -- Chapter 7. Dynamics of Vegetation Productivity in Dryland East Asia from 1982 to 2010 / Xiao, Jingfeng / Zhang, Li / Chen, Jiquan / Ranjeet, John -- Summary I: |

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### Sommario/riassunto

Drylands in East Asia (DEA) are home to more than one billion people with an environment vulnerable to natural and anthropogenic changes. One of the critical needs in the region is to fully understand how dryland ecosystems respond to the changing climate and human activities in order to develop strategies to cope with continued climate change. This book provides state-of-the-art knowledge and information on drylands ecosystem dynamics, changing climate, society, and land use in the region. In addition to the synthesis of the existing research and knowledge of DEA, the book provides a role model for regional ecological assessment. With a wide spectrum of contributions from experts around the globe, the book should be of interest to researchers and students both internationally and in East Asia. Lessons learned from this synthesis effort in DEA should be useful for developing climate adaptation strategies for other similar regions around the globe.

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