

Contents

1	Systematic Modeling of Land Use Impacts on Surface Climate	1
	Xiangzheng Deng, Burak Güneralp and Hongbo Su	
2	Land Use Change Dynamics Model Compatible with Climate Models	19
	Jinyan Zhan, Jiuyan Liu, Yingzhi Lin, Feng Wu and Enjun Ma	
3	Spatially Explicit Land-Use and Land-Cover Scenarios for China	47
	Feng Wu, Qun'ou Jiang, Yongwei Yuan, Qian Xu and Xing Li	
4	Projected Impacts of Cultivated Land Changes on Surface Climates in China	95
	Qingling Shi, Haiming Yan, Ruijie Qu and Zhaohua Li	
5	Simulation of the Plausible Climate Effects of Ecological Restoration Programs in China	135
	Qun'ou Jiang, Enjun Ma, Yanfei Li and Anping Liu	
6	Regional Climate Impacts of Future Urbanization in China	167
	Xinli Ke, Jinyan Zhan, Enjun Ma and Juan Huang	
7	International Comparisons of the Modeled Climate Effects of Land Use Changes	207
	Yingzhi Lin, Fan Zhang, Yi Qu, Zhihui Li and Tao Zhang	
8	Concluding Remarks on Improved Data, Upgraded Models and Case Studies	259
	R. B. Singh, Chenchen Shi and Xiangzheng Deng	

Land Use Impacts on Climate

Deng, X.; Güneralp, B.; Zhan, J.; Su, H. (Eds.)

2014, IX, 269 p. 105 illus., 66 illus. in color., Hardcover

ISBN: 978-3-642-54875-8