Regional Environmental Change

Volume 14 · Number 1 · February 2014

Special Issue on Climate Change and the Food Production System: Impacts and Adaptation in China

Guest Editors: Wenbin Wu, Peter H. Verburg and Huajun Tang

.

	Editorial	119	Graveline N, Majone B, Van Duinen R, Ansink E:
1	Wu W, Verburg PH, Tang H: Climate change and the food production system:		Hydro-economic modeling of water scarcity under global change: an application to the Gállego river basin (Spain)
	impacts and adaptation in China Original Articles	133	Wang H: A multi-model assessment of climate change impacts on the distribution and productivity of ecosystems in China
7	Xiong W, Holman IP, You L, Yang J, Wu W: Impacts of observed growing-season warming trends since 1980 on crop yields in China	145	Epule ET, Peng C, Lepage L, Chen Z: The causes, effects and challenges of Sahelian droughts: a critical review
17	Zhao J, Yang X, Lv S, Liu Z, Wang J: Variability of available climate resources and disaster risks for different maturity types of spring maize in Northeast China	157	Zinner D, Wygoda C, Razafimanantsoa L, Rasoloarison R, Andrianandrasana HT, Ganzhorn JU, Torkler F: Analysis of deforestation patterns in the central Menabe,
27	Zhang Z, Liu X, Wang P, Shuai J, Chen Y, Song X, Tao F: The heat deficit index depicts the responses of rice yield to climate change in the northeastern three provinces of China	167	Madagascar, between 1973 and 2010 Klein T, Holzkämper A, Calanca P, Fuhrer J: Adaptation options under climate change for multifunctional agriculture: a simulation study for western Switzerland
39	Li Z, Yang P, Tang H, Wu W, Yin H, Liu Z, Zhang L: Response of maize phenology to climate warming in Northeast China between 1990 and 2012	185	Zheng H, Barta D, Zhang X: Lesson learned from adaptation response to Devils Lake flooding in North Dakota, USA
49	Liu Y, Yang X, Wang E, Xue C: Climate and crop yields impacted by ENSO episodes on the North China Plain: 1956–2006	195	Da Rocha J-M, Gutiérrez M-J, Villasante S: Economic effects of global warming under stock growth uncertainty: the European sardine fishery
61	Yang P, Wu W, Li Z, Yu Q, Inatsu M, Liu Z, Tang P, Zha Y, Kimoto M, Tang H: Simulated impact of elevated CO ₂ , temperature, and precipitation on the winter wheat yield in the North China Plain	207	Bastakoti RC, Gupta J, Babel MS, van Dijk MP: Climate risks and adaptation strategies in the Lower Mekong River basin
75	Zuo L, Zhang Z, Zhao X, Wang X, Wu W, Yi L, Liu F: Multitemporal analysis of cropland transition in a climate-sensitive area: a case study of the arid and semiarid region of northwest China	221	Nunn PD, Aalbersberg W, Lata S, Gwilliam M: Beyond the core: community governance for climate-change adaptation in peripheral parts of Pacific Island Countries
	Further Regular Articles	237	Palomo I, Martín-López B, Zorrilla-Miras P, García Del Amo D, Montes C: Deliberative mapping of ecosystem services within and around Doñana National Park (SW Spain) in relation
91	Vasileiadou E, Hisschemöller M, Petersen AC, Hazeleger W, Betgen C, de Hoog I, Min E: Adaptation to extreme weather: identifying different societal perspectives in the Netherlands	253	to land use change Gebrehiwot SG, Bewket W, Gärdenäs AI, Bishop K: Forest cover change over four decades in the Blue Nile Basin, Ethiopia: comparison of three watersheds
103	Shinoda M, Nandintsetseg B, Nachinshonhor UG, Komiyama H: Hotspots of recent drought in Asian steppes		(Contents continued on inside back cover)

B

- -

IEK

267	Barua A, Katyaini S, Mili B, Gooch P: Climate change and poverty: building resilience of rural mountain communities in South Sikkim, Eastern Himalaya, India	369	Codjoe SNA, Owusu G, Burkett V: Perception, experience, and indigenous knowledge of climate change and variability: the case of Accra, a sub-Saharan African city
281	Islam MdM, Sallu S, Hubacek K, Paavola J: Vulnerability of fishery-based livelihoods to the impacts of climate variability and change: insights from coastal Bangladesh	385	Mitter H, Kirchner M, Schmid E, Schönhart M: The participation of agricultural stakeholders in assessing regional vulnerability of cropland to soil water erosion in Austria
295	Fraga H, Malheiro AC, Moutinho-Pereira J, Jones GV, Alves F, Pinto JG, Santos JA: Very high resolution bioclimatic zoning of Portuguese	401	Aldum N, Duggie J, Robson BJ: Climate change adaptation support tools in Australia
	wine regions: present and future scenarios	413	Koks EE, de Moel H, Aerts JCJH, Bouwer LM: Effect of spatial adaptation measures on flood risk:
307	Vermeulen LC, Hofstra N: Influence of climate variables on the concentration of <i>Escherichia coli</i> in the Rhine, Meuse, and Drentse Aa during 1985–2010		study of coastal floods in Belgium
			Erratum
321	Gebrehiwot SG, Gärdenäs AI, Bewket W, Seibert J, llstedt U, Bishop K: The long-term hydrology of East Africa's water tower: statistical change detection in the watersheds of the Abbay Basin	427	Buckley R: Erratum to: The contested nature of coastal climate change—commentary to Niven and Bardsley. Planned retreat as a management response to coastal risk: a case study from the Fleurieu Peninsula, South Australia
333	Willaume M, Rollin A, Casagrande M: Farmers in southwestern France think that their arable cropping systems are already adapted to face climate change		
347	Kang S, Choi W: Forest cover changes in North Korea since the 1980s		
355	Kirono DGC, Larson S, Tjandraatmadja G, Leitch A, Neumann L, Maheepala S, Barkey R, Achmad A, Selintung M:		Forthcoming articles in print
	Adapting to climate change through urban water management: a participatory case study in Indonesia		Published online and citable with the DOI (Digital Object Identifier) can be found at link.springer.com