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[1]冯领香,冯振环.脆弱性视角下京津冀都市圈自然灾害特性分析[J].自然灾害学报,2013,04:101-107.

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## 脆弱性视角下京津冀都市圈自然灾害特性分析(即)

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Title: Nutural disaster character analysis of Beijing-Tianjin-Hebei

metropolitan circle from the perspective of vulnerability

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关键词: 自然灾害; 脆弱性; 京津冀都市圈

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摘要: 自然灾害是致灾因子和承灾体脆弱性相互作用的结果,前者是外因,后者是内因,因此脆弱

性是承灾体本身具有的内在属性。在界定了脆弱性内涵和构成的基础上,以统计参数为基础,分析了京津冀都市圈的自然灾害脆弱性指标体系和区域差异,并结合近年来区域自然灾害损失统计数据,讨论了京津冀都市圈的灾害类别、受灾方式及自然灾害特性。研究表明,京津冀都市圈10市的应对-恢复能力和敏感性发展具有同向性,两者的相对发展速度是影响脆弱性的关键因素;区域系统脆弱性对自然灾害影响很大,且在不同灾害条件下,发挥关键作用的脆弱性指标不同;张家口、承德等市自然灾害损失惨重,农业生产规模

大、防灾能力差是主要原因。

Abstract: Natural disasters are the result of interaction between disaster-causing factors

and hazard affected body vulnerability. The former is the external cause. The latter is the internal cause. Therefore the vulnerability is the intrinsic attribute

of hazard affected body. Based on the clear definition and connotation of

vulnerability, natural disaster vulnerability index system and regional difference of Beijing-Tianjin-Hebei metropolitan region were analyzed in terms of the statistical

parameters, and with the help of the regional natural disaster loss data, the

types and characteristics of disasters in Beijing-Tianjin-Hebei metropolitan circle were discussed. Study shows that, the sensitivity and response-recovery ability

development in 10 cities of Beijing-Tianjin-Hebei metropolitan circle is

synchronic. So the relative development velocity of the two aspects is the key factor that affects the vulnerability. Regional system vulnerability has great

influence on natural disasters. In different conditions, disaster vulnerability

indices that play the key role are different. Cities such as Zhangjiakou and

导航/NAVIGATE

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Chengde suffered heavier losses in natural disasters, the main reason of which is the large scale of agricultural production and low disaster prevention ability.

## 参考文献/REFERENCES

- [1] 商彦蕊. 自然灾害综合研究的新进展——脆弱性研究[J]. 地域研究与开发, 2000, 19(2): 73-77. SHANG Yanrui. Vulnerability study——the new development of synthetized study on natural disasters[J]. Areal Reseach and Development, 2000,19 (2): 73-77. (in Chinese)
- [2] 商彦蕊. 灾害脆弱性概念模型综述[J]. 灾害学, 2013, 28(1): 112-116. SHANG Yanrui. Review on concept model of disaster vulnerability[J]. Journal of Catastrophology, 2013, 28(1): 112-116. (in Chinese)
- [3] 孙蕾, 石纯. 沿海城市自然灾害脆弱性评估研究进展[J]. 灾害学, 2007, 22(1): 102-105. SUN Lei, SHI Chun. Progress in vulnerability assessment of natural disasters in coastal cities[J]. Journal of Catastrophology, 2007, 22(1): 102-105. (in Chinese)
- [4] Pelanda C.Disaster and Sociosystemic Vulnerability[M]. Gorizia: Disaster Research Center, 1981.
- [5] Blaikie P, Cannon T, Davis I, et al. At Risk: Natural Hazards, People's Vulnerability and Disasters[M]. London: Routledge, 1994.
- [6] 邵传青, 张芳, 易立新. 沿海城市自然灾害脆弱性评价研究——以天津滨海新区为例[J]. 防灾科技学院学报, 2008, 10(4): 88-92. SHAO Chuanqing, ZHANG Fang, YI Lixin. Natural disaster vulnerability assessment study of coastal cities—a case of Tianjin Binhai New Area[J]. J.of Institute of Disaster-Prevention Science and Technology, 2008, 10(4): 88-92. (in Chinese) [7] 石勇, 孙蕾, 石纯, 等. 上海沿海六区县自然灾害脆弱性评价[J]. 自然灾害学报, 2010, 19(3):156-162. SHI Yong, SUN Lei, SHI Chun, et al. Assessment of vulnerability of six coastal districts in Shanghai to natural disasters[J]. Journal of Natural Disasters, 2010, 19(3): 156-162. (in Chinese)
- [8] 张国培, 庄天慧. 自然灾害对农户贫困脆弱性的影响——基于云南省2009年的实证分析[J]. 四川农业大学学报, 2011, 29(3): 136-150. Zhang Guopei, ZHUANG Tianhui. Impacts of the natural disasters on poverty vulnerability of farmer households-based on empirical analysis of Yunnan Province in 2009 [J]. Journal of Sichuan Agricultural University, 2011, 29 (3):136-150. (in Chinese)
- [9] 刘毅, 黄建毅, 马丽. 基于DEA模型的我国自然灾害区域脆弱性评价[J]. 地理研究, 2010, 29(7): 1153-1162. LIU Yi, HUANG Jianyi, MA Li. The assessment of regional vulnerability to natural disasters in China based on DEA model[J]. Geographical Reserch, 2010, 29(7): 1153-1162. (in Chinese)
- [10] 陈磊, 徐伟, 周忻, 等. 自然灾害社会脆弱性评估研究——以上海市为例[J]. 灾害学, 2012, 27(1): 98-101. CHEN Lei, XU Wei, ZHOU Xin, et al. Assessment of social vulnerability to natural disasters:a case study of Shanghai[J]. Journal of Catastrophology, 2012, 27(1): 98-101. (in Chinese)
- [11] 刘斌涛, 陶和平, 刘邵权, 等. 自然灾害胁迫下区域生态脆弱性动态——以四川省清平乡为例[J]. 应用生态学报, 2012, 23(1): 193-198. LIU Bintao, TAO Heping, LIU Shaoquan, et al. Dynamics of regional ecological frangibility under natural hazard stress: a case study in Qingping Town of Sichuan Province, Southwest China[J]. Chinese Journal of Applied Ecology, 2012, 23(1): 193-198. (in Chinese)
- [12] White G F. Natural Hazards[M]. Oxford:Oxford University Press, 1974.
- [13] Cutter S L.Living with Risk: the Geography of Tecknological Hazards[M]. London: Edward Arnold, 1993.
- [14] Zapata R, Caballeros R. A systemic synthesis of the relations between vulnerability, hazard, exposure and impact, aimed at policy identification. Handbook for Estimating the Socio-Economic and Environmental Effects of Disasters, E-CLAC, Mexico, D.F., 2000.
- [15] Timmerman P. Vulnerability resilience and the collapse of society[C]// Environmental Monograph. Toronto: Institute for Environmental Studies, 1981.
- [16] Turner II B L, Kasperson R E, Matson P A. A framework for vulnerability analysis in sustainability science [J]. Proceedings of the National Academy of Sciences US, 2003, 100(14): 8074-8079.
- [17] Downing T E. Clinate change and vulnerable places: global food security and country studies in Zimbabwe, Kenya, Senegal and Chile[C]// Environmental Change Unit. Oxford: Oxford University, 1993: 1-5.
- [18] Vogel C. Vulnerability and Global Environmental Change[R]. World Commission of Environment and Development, LUCC Newsletter 3, 1998.
- [19] 刘燕华, 李秀彬. 脆弱生态环境与可持续发展[M]. 北京: 商务印书馆, 2001. LIU Yanhua, LI Xiubin. Fragile Ecological Environment and Sustainable Development [M]. Beijing: The Commercial Press, 2001. (in Chinese)
- [20] Andger W N. Vulnerability[J]. Global Environmental Change, 2006, 16(6): 268-281.
- [21] Gallopín G C. A Systemic Synthesis of the Relations Between Vulnerability, Hazard, Exposure and Impact, Aimed at Policy Identification [M]. Handbook for Estimating the Socio-Economic and Environmental Effects of Disasters, E-CLAC, Mexico, D. F., 2003.
- [22] 石勇, 许世远, 石纯, 等. 自然灾害脆弱性研究进展[J]. 自然灾害学报, 2011, 20(2): 131-137. SHI Yong, XU Shiyuan, SHI Chun, et al. Progress in research on vulnerability of natural disasters[J]. Journal of Natural Disasters, 2011, 20(2): 131-

137.(in Chinese)

[23] George Abeyle D E. Race, ethnicity and the spatial dynamic: towards a realistic study of black crime, crime victimization and criminal justice processing of black [J]. Social Justice, 1989, 17 (3): 153-166.

[24] 王静爱, 施之海, 刘珍, 等. 中国自然灾害后响应能力评价与地域差异[J]. 自然灾害学报, 2006, 15(6): 23-27. WANG Jingai, SHI Zhihai, LIU Zhen, et al. Assessment and regional difference of disaster resilience capability in China [J]. Journal of Natural Disasters, 2006, 15(6): 23-27. (in Chinese)

[25] 苏桂武, 朱林, 马宗晋, 吴琼. 京津唐地区地震灾害区域宏观脆弱性变化的初步研究——空间变化[J]. 地震地质, 2007, 29(1): 15-33. SU Guiwu, ZHU Lin, MA Zongjin, WUQiong. A preliminary study on the changes of the regional scale macroscopic vulnerability to earthquake disasters of Beijin, Tinjin and Tangshan area—spatial changes[J]. Seismology and Geology, 2007, 29(1): 15-33. (in Chinese)

 $[26] \ Mitchell\ J\ K.\ Hazards\ Research [C]//\ Gaile\ G\ L, Wilhnott\ C\ J\ editors.\ Geography\ in America. OH: Merrill, 1989:\ 410-424.$ 

[27] Bohle H G. Vulnerability and criticality: perspectives from social geography. IHDP Update2/01, article, 2001.[online]. URL: http://www.ihdp.uni-bonn.de/html/publications/update/IHD PUpdate01\_02.h.

[28] 董长虹. Matlab神经网络与应用[M]. 2版. 北京: 国防工业出版社. 2007: 185-196. Dong Changhong. Matlab Neural Network and Application [M]. 2nd edication. Beijing: National Defence Industry Press. 2007: 185-196. (in Chinese)

[29] 殷杰, 尹占娥, 许世远. 沿海城市自然灾害损失分类与评估[J]. 自然灾害学报. 2011, 20(1): 124-128. YIN Jie, YIN Zhane, XU Shiyuan. Classification and assessment of natural disasters loss in coastal cities[J]. Journal of Natural Disasters, 2011, 20 (1): 124-128. (in Chinese)

[30] 王成金, 金凤君, 何丹. 自然灾害承险体的分类技术与方案[J]. 地理研究, 2013, 32(3): 431-440. WANG Chengjin, JIN Fengjun, HE Dan. Identification and classification program of the bearing body of the natural hazards[J]. Grographical Research. 2013, 32(3): 431-440. (in Chinese)

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