

[1]毛德华,谢石,刘晓群,等.洪灾风险分析的国内外研究现状及展望(III)——研究展望[J].自然灾害学报,2012,05:8-15.
MAO Dehua,XIE Shi,LIU Xiaoqun,et al.Review and prospect of research on flooding risk analysis at home and abroad(III): research prospect[J].,2012,05:8-15.

点击复制

洪灾风险分析的国内外研究现状及展望(III)——研究展望

《自然灾害学报》[ISSN:/CN:23-1324/X] 期数: 2012年05期 页码: 8-15 栏目: 出版日期: 2012-10-31

Title: Review and prospect of research on flooding risk analysis at home and abroad(III): research prospect

作者: 毛德华¹; 谢石²; 刘晓群²; 刘卡波²; 刘东润³; 邱永红¹
1. 湖南师范大学 资源与环境科学学院, 湖南 长沙 410081;
2. 湖南省洞庭湖工程管理局, 湖南 长沙 410004;
3. 湖南省水文水资源局, 湖南 长沙 410004

Author(s): MAO Dehua¹; XIE Shi²; LIU Xiaoqun²; LIU Kabo²; LIU Dongrun³; QIU Yonghong¹
1. College of Resources and Environment Science, Hunan Normal University, Changsha 410081, China;
2. Management Department of Dongting Lake Engineering of Hunan Province, Changsha 410007, China;
3. Hunan Provincial Hydrological Bureau, Changsha 410007, China

关键词: 洪灾; 风险分析; 研究趋势; 综合研究; 系统化; 新技术方法

Keywords: flood disaster; risk analysis; research trend; comprehensive research; systematization; new technique and method

分类号: X43

DOI: -

文献标识码: -

摘要: 在对洪灾风险分析所涉及的洪水为害风险分析研究现状与防洪减灾过程风险分析研究现状进行分析的基础上,展望了洪灾风险分析的研究趋势。这方面可以概括为:洪灾风险分析的综合化研究趋势、系统化研究趋势与新技术新方法的不断开拓与应用等三个方面。为我国洪灾风险分析研究的纵深发展提供参考。

Abstract: Based on the status quo of the risk analysis of flooding hazard and flooding disaster prevention and reduction, this paper prospects the research trends of risk analysis of flooding disasters, which can be summarized into three aspects: comprehensive research, systematic research and extension and application of new techniques and new methods. The research results could provide a reference to deep development of research on risk analysis of flooding disasters in China.

导航/NAVIGATE	
本期目录/Table of Contents	
下一篇/Next Article	
上一篇/Previous Article	
工具/TOOLS	
引用本文的文章/References	
下载 PDF/Download PDF(935KB)	
立即打印本文/Print Now	
推荐给朋友/Recommend	
统计/STATISTICS	
摘要浏览/Viewed	677
全文下载/Downloads	279
评论/Comments	



- [1] 毛德华,何梓霖,贺新光,等. 洪灾风险分析的国内外研究现状与展望(Ⅰ)——洪水为害风险分析研究现状[J]. 自然灾害学报, 2009,18(1):139-149. MAO Dehua, HE Zilin, HE Xiguang, et al. Review and prospect of research on flood risk analysis at home and abroad(Ⅰ):status quo of research on risk analysis of flood hazard[J]. Journal of Natural Disasters, 2009,18(1):139-149.(in Chinese)
- [2] 毛德华,贺新光,彭鹏,等. 洪灾风险分析的国内外研究现状与展望(Ⅱ)——防洪减灾过程风险分析研究现状[J]. 自然灾害学报, 2009,18(1):150-157. MAO Dehua, HE Xiguang, PENG Pen, et al. Review and prospect of research on flood risk analysis at home and abroad(Ⅱ): status quo of research on risk analysis of flood disaster prevention and reduction[J]. Journal of Natural Disasters, 2009,18(1):150-157.(in Chinese)
- [3] Bourgund U, C G Bucher. Importance Sampling Procedure Using Design Point. Research report of university of Innsbruck, Austria,1986.
- [4] Jonathan A Tawn. Estimating probability of extreme sea levels[J]. Appl. Statist., 1992, 41(1): 77-93.
- [5] 朱元胜,韩国宏,王汝慈,等. 南水北调中线工程交叉建筑物水毁风险分析[J]. 水文,1995(3):1-7. ZHU Yuansheng,HAN Guohong, WANG Ruci,et al. The risk analysis of flood damaging to the cross-structures on the main canal of the south-to-north water transfer project [J]. Hydrology, 1995(3):1-7.(in Chinese)
- [6] 冯平,闫大鹏,耿六成,等. 南水北调中线总干渠防洪风险评估方法研究[J]. 水利学报,2003(4): 40-45. FENG Ping, YAN Dapeng, GENG Liucheng, et al. Study on flood risk assessment of the main channel in middle route of the water transfer project from south to north[J]. Journal of Hydraulic Engineering, 2003(4): 40-45.(in Chinese)
- [7] 贾超,刘宁,陈进. 南水北调中线工程风险分析的若干工程问题[J]. 岩土工程技术, 2003,17(3):180-183. JIA Chao, LIU Ning, CHEN Jin. Risk nnalysis of the middle Side South-North water transfer project[J]. Geotechnical Engineering Technique, 2003,17(3):180-183.(in Chinese)
- [8] 陈进,黄薇. 防洪工程系统风险分析方法探讨[J]. 长江科学院院报,2001, 18(5):37-40. CHEN Jin, HUANG Wei. Inquiry into system risk analytic method of flood control engineering [J]. Journal of Yangtze River Scientific Research Institute, 2001, 18(5):37-40.(in Chinese)
- [9] 程卫帅,陈进. 相关性对系统可靠度的影响[J]. 长江科学院院报,2003,20(3):60-64. CHENG Weishuai, CHEN Jin. Effect of correlation on structural system reliability[J]. Journal of Yangtze River Scientific Research Institute, 2003,20(3): 60-64.(in Chinese)
- [10] 朱勇华. 防洪风险分析的一个Poisson标值点过程模型及其性质[J]. 武汉水利电力大学学报, 2000,33(3):33-35. ZHU Yonghua. A Poisson marked point process model and its properties in risk analysis of flood control[J]. Journal of Wuhan University of Hydraulic and Electric Engineering,2000,33(3):33-35.(in Chinese)
- [11] 冯平,崔广涛,胡明昱. 暴雨洪水共同作用下的多变量防洪计算问题[J]. 水利学报, 2000,(2):49-53. FENG Ping, CUI Guangtao, HU Minggang. A bivariate method of rainstorm and flood for design flood and its application[J]. Journal of Hydraulic Engineering, 2000,(2):49-53.(in Chinese)
- [12] 毛德华. 人类与灾害相互影响机制的初步研究[J]. 湖南师范大学:自然科学学报,1997,20(2):92-96. MAO Dehua. Study on the mutual influence mechanism between human and hazard [J]. Acta scientiarum naturalium universitatis normalis hunanensis, 1997,20(2):92-96.(in Chinese)
- [13] 毛政旦. 灾害心理对人类行为的影响[J]. 南京大学学报:自然科学版,1991,27(11):493-498. MAO Zhengdan. The psychological influences of disaster on the human behavior[J]. Journal of Nanjing University:Natural Science Edition, 1991,27(11):493-498.(in Chinese)
- [14] 王子平. 灾害社会学[M]. 长沙:湖南人民出版社,1998. WANG Ziping. Disaster Sociology[M].Changsha: Hunan People Press, 1998.(in Chinese)
- [15] Kenneth Hewitt. Regions of Risk[M]. Produced by Longman Singapore Publisher(Pte) Ltd. Printed in Singapore, 1997.
- [16] 史培军. 五论灾害系统研究的理论与实践[J]. 自然灾害学报,2009,18(5):1-9. SHI Peijun. Theory and practice on disaster system research in a fifth time [J]. Journal of Natural Disasters, 2009,18(5):1-9.(in Chinese)
- [17] 史培军,李宁,刘婧,等.探索发展与减灾协调之路——从2006年达沃斯国际减灾会议看中国发展与减灾协调对策[J]. 自然灾害学报, 2006, 15(6): 1-8. SHI Peijun, LI Ning,LIU Jin, et al. Discussion on harmonization way of development and disaster reduction: harmonization strategies of development and disaster reduction in China based on " The International Disaster Reduction Conference, Davos, 2006"[J]. Journal of Natural Disasters, 2006, 15(6): 1-8.(in Chinese)
- [18] Walter J A, et al. Program of International Disaster Reduction Conference [R]. Davos, Switzerland, 2006.
- [19] Walter J A. Program of International Disaster and Risk Conference[R]. Davos, Switzerland,2008.
- [20] ICSU. A Science Plan for Integrated Research on Disaster Risk: Addressing the Challenge of Natural and Human-induced Environmental Hazards[R]. Paris: ICSU, 2008.
- [21] Jaeger C, Shi P J. Core Science Initiative on Integrated Risk Governance[J]. IHDP Update, 2008(1): 27-28.
- [22] Pelling M, Maskrey A, Ruiz P, et al. United Nations Development Programme. A global report reducing disaster risk: A challenge for development[R]. New York: UNDP, 2004: 1-146.
- [23] Pelling M. Visions of Risk: A Review of International Indicators of Disaster Risk and its Management [R]. ISDR /UNDP:

Kings College, University of London, 2004: 1-56.

[24] Dilley M, Chen R S, Deichmann U, et al. Natural Disaster Hotspots: A Global Risk Analysis [R]. Washington DC: Hazard Management Unit, World Bank, 2005: 1-132.

[25] Cardona O D, Hurtado J E, Chardon A C, et al. Indicators of disaster risk and risk management Summary report for WCDR[R]. Program for Latin America and the Caribbean IADB -UNC/IDEA, 2005: 1-47.

[26] 黄蕙,温家洪,司瑞洁,等. 自然灾害风险评估国际计划述评I——指标体系[J].灾害学, 2008, 23(2): 112-116. HUANG Hui, WEN Jiahong, SI Ruiji, et al. International natural disaster risk assessment program: overview I——indicator systems[J]. Journal of Catastrophology, 2008, 23(2): 112-116. (in Chinese)

[27] 黄蕙,温家洪,司瑞洁,等. 自然灾害风险评估国际计划述评II——指标体系[J].灾害学, 2008, 23(3): 96-101. HUANG Hui, WEN Jiahong, SI Ruiji, et al. International natural disaster risk assessment program: overview II——Assessment methods [J]. Journal of Catastrophology, 2008, 23(3): 96-101. (in Chinese)

[28] 毛德华,温家洪,潘安定,等.灾害学[M].北京:科学出版社,2011. MAO Dehua, WEN Jiahong, PAN Aanding, et al. Catastrophology[M]. Beijing: Science Press, 2011.

[29] Renn O. Risk governance-Towards an integrative approach [R]. International Risk Governance Council, White Paper, 2005:1-156.

[30] Emergency Management Australia. Emergency risk management applications guide[R]. Australian Emergency Management Manual Series, 2004:1-56.

[31] ADRC. Total Disaster Risk Management-Good Practices[R]. 2005: 11-23.

[32] GTZ. Guidelines: Risk analysis-a basis for disaster risk management[R]. Eschborn: Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH, 2004: 1-73.

[33] SHI Peijun, WANG Jing'ai, YANG Mingchuan, et al. Integrated risk management of flood disaster in metropolitan regions of China(I)[C]//Proceedings of Second Annual IIASA-DPRI Meeting. Vienna, Austria, 2002:1-16.

[34] SHI Peijun, WANG Jing'ai, YANG Mingchuan, et al. Integrated risk management of flood disaster in metropolitan regions of China(II)[C]//Proceedings of Third Annual IIASA-DPRI Meeting. Kyoto University, Japan, 2003:1-15.

[35] 史培军,王静爱,周俊华,等. 中国水灾风险综合管理——平衡大都市区水灾致灾强度与脆弱性[J]. 自然灾害学报, 2004, 13(4):1-7. SHI Peijun, WANG Jing'ai, ZHOU Junhua, et al. Integrated risk management of flood disaster in China: To balance flood disaster magnitude and vulnerability in metropolitan regions[J]. Journal of Natural Disasters, 2004, 13(4):1-7. (in Chinese)

[36] 史培军. 制定国家综合减灾战略提高巨灾风险防范能力[J]. 自然灾害学报, 2008, 17(1):1-8. SHI Peijun. Establishing national integrated disaster reduction strategy and improving catastrophe risk governance capacity[J]. Journal of Natural Disasters, 2008, 17(1):1-8. (in Chinese)

[37] 史培军,邹铭,李保俊,等.从区域安全建设到风险管理体系的形成:从第一届世界风险大会看灾害与风险研究的现状与发展趋向[J].地球科学进展, 2005, 10(2): 26-32. SHI Peijun, ZOU Ming, LI Baojun, et al. Regional safety construction and risk management system—the actuality and trend of the study of disaster and risk based on the world congress on risk[J]. Advances in Earth Science, 2005, 10(2): 26-32. (in Chinese)

[38] 史培军,杜鹃,叶涛,等.加强综合灾害风险研究,提高应对灾害风险能力——从第6届国际综合灾害风险管理论坛看我国的综合减灾[J].自然灾害学报, 2006, 15(5): 1-6. SHI Peijun, DU Juan, YE Tao, et al. Enhancing researches on integrated disaster risk and improving disaster risk coping capacity of business and industry: integrated disaster reduction in China based on "the Sixth Annual IIASA-DPRI Forum on Integrated Disaster Risk Management, 2006 " [J]. Journal of Natural Disasters, 2006, 15(5): 1-6. (in Chinese)

[39] 史培军.区域综合灾害风险管理[M].北京:北京大学出版社, 2007: 274-288. SHI Peijun. Region Integrated Disaster Risk Management[M]. Beijing: Beijing University Press, 2007: 274-288. (in Chinese)

[40] 史培军,黄崇福,叶涛,等.建立中国综合风险管理体系[J].中国减灾, 2005(1): 37-39. SHI Peijun, HUANG Chongfu, YE Tao, et al. Establishing China integrated risk management system [J]. Journal of Disaster Reduce of China, 2005(1): 37-39. (in Chinese)

[41] 史培军,叶涛,王静爱,等.论自然灾害风险的综合行政管理[J].北京师范大学学报:社会科学版, 2006(5): 130-136. SHI Peijun, YE Tao, WANG Jing'ai, et al. Integrated governance of natural disaster risk[J]. Journal of Beijing Normal University: Social science edition, 2006(5): 130-136. (in Chinese)

[42] 程晓陶,万洪涛,吴兴征. 防洪减灾科技发展现状与趋势[J]. 中国水利, 2004, (22):31-33. CHENG Xiaotao, WAN Hongtao, WU Xingzheng. The present situation and development trend of the flood control and disaster relief science[J]. China Water Resource, 2004, (22):31-33. (in Chinese)

[43] 向立云,程晓陶译(William J. Petak, Arthur A. Atkisson 著). 自然灾害风险评价与减灾政策[M]. 地震出版社, 1993. XIANG Liyun, CHENG Xiaotao translation(William J. Petak, Arthur A. Atkisson). Natural Hazard Risk Assessment and Public Policy [M]. Earthquake Press, 1993. (in Chinese)

[44] Norio Okada. Urban diagnosis and integrated disaster risk management [J]. Journal of Natural Disaster Science, 2004, 26(2):49-54.

[45] Norio Okada. A new trend in disaster management-Towards new public risk management and urban diagnosis[R].

- Proceedings of the 2003 joint seminar and stakeholders symposium on urban disaster management an implementation, Beijing, 2003: 1-7.
- [46] Norio Okada, Aniello Amendola. Research Challenge for Integrated Disaster Risk Management[R]. Proceedings of Third Annual IIASA-DPRI Meeting. July 3-5,2003,Kyoto University,Japan,1-2.
- [47] Norio Okada. Integrated Disaster Risk Management: A New Perspective and Illustrations from Japanese Challenges [R]. Proceedings of Third Annual IIASA-DPRI Meeting.Kyoto University,Japan,2003:1-17.
- [48] Stephan Bieri. Disaster Risk Management and the System Approach[R]. International Disaster Risk Management Institute, 2000:6-101.
- [49] Burton I Kates R W,White G F . The Environment as Hazard[M]. Second Edition, The Guilford Press, New York,1993.
- [50] Blaikie P T,Davis C I,Wisner B. At Risk: Natural Hazards, People' s Vulnerability, and Disasters, [M].Routledge, London,1994.
- [51] 史培军.论灾害研究的理论与实践[J].南京大学学报:自然科学版, 1991:27(11): 37-42. SHI Peijun. On the theory of disaster research and its practice[J]. Journal of Nanjing University:Natural science edition, 1991,27(11): 37-42.(in Chinese)
- [52] 史培军.再论灾害研究的理论与实践[J].自然灾害学报, 1996, 5(4): 6-17. SHI Peijun. Theory and practice of disaster study[J]. Journal of Natural Disasters, 1996, 5(4): 6-17.(in Chinese)
- [53] 史培军.三论灾害系统研究的理论与实践[J].自然灾害学报, 2002, 11(3): 1-9. SHI Peijun. Theory on disaster science and disaster dynamics[J]. Journal of Natural Disasters, 2002, 11(3): 1-9.(in Chinese)
- [54] 史培军.四论灾害系统研究的理论与实践[J].自然灾害学报, 2005, 14(6): 1-7. SHI Peijun. Theory and practice on disaster system research in a fourth time[J]. Journal of Natural Disasters, 2005, 14(6): 1-7.(in Chinese)
- [55] 万庆.洪水灾害系统分析与评估[M].北京:科学出版社,1999. WAN Qing. System Analysis and Evaluation on Flood Disaster [M]. Beijing: Science Press,1999.(in Chinese)
- [56] 魏一鸣,金菊良,杨存建,等.洪水灾害风险管理理论[M].北京:科学出版社,2002. WEI Yiming, JIN Juliang, YANG Chenjian, et al. Theory of Risk Management of Flood Disaster[M]. Beijing: Science Press,2002.(in Chinese)
- [57] 毛德华.洪灾综合风险分析的理论方法与应用研究[M].北京:中国水利水电出版社,2009. MAO Dehua. Research on Theory and Method and Application of Synthetic Risk Analysis on Flood Disaster[M].Beijing: China Water Power Press,2009.(in Chinese)
- [58] 李继清. 洪灾综合风险管理理论方法与应用研究[D].武汉:武汉大学, 2004. LI Jiqing. Research on Theory and Method and Application of Synthetic Risk Managment on Flood Disaster[D]. Wuhan: Wuhan University, 2004.(in Chinese)

备注/Memo: 收稿日期:2011-8-6;改回日期:2011-12-21。